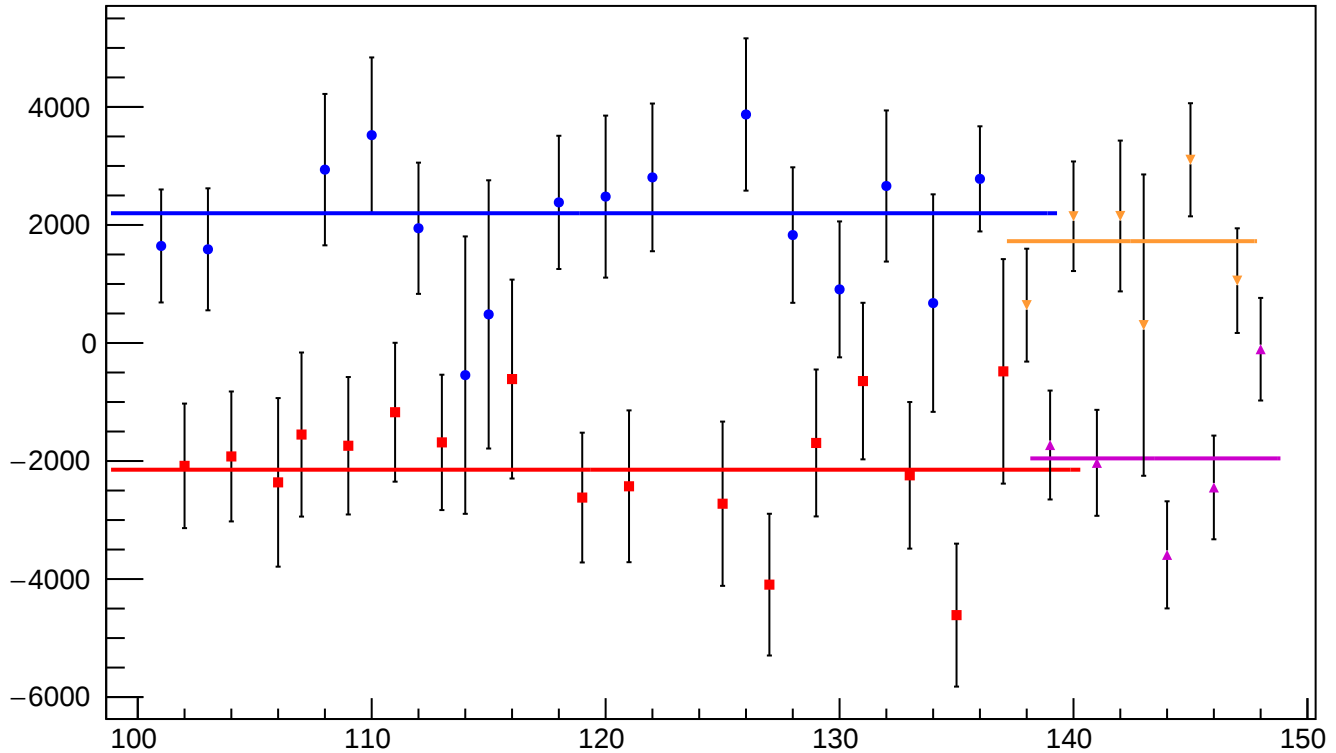


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2198.880+/-306.767

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

Left Out: 1725.286+/-431.173

$\chi^2/\text{NDF}$ : 4.6/5

Right Out: -2147.149+/-304.804

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

Left In: -1955.557+/-400.099

$\chi^2/\text{NDF}$ : 8.2/4

+ sign 2039.718+/-249.959

$\chi^2/\text{NDF}$ : 13.9/21

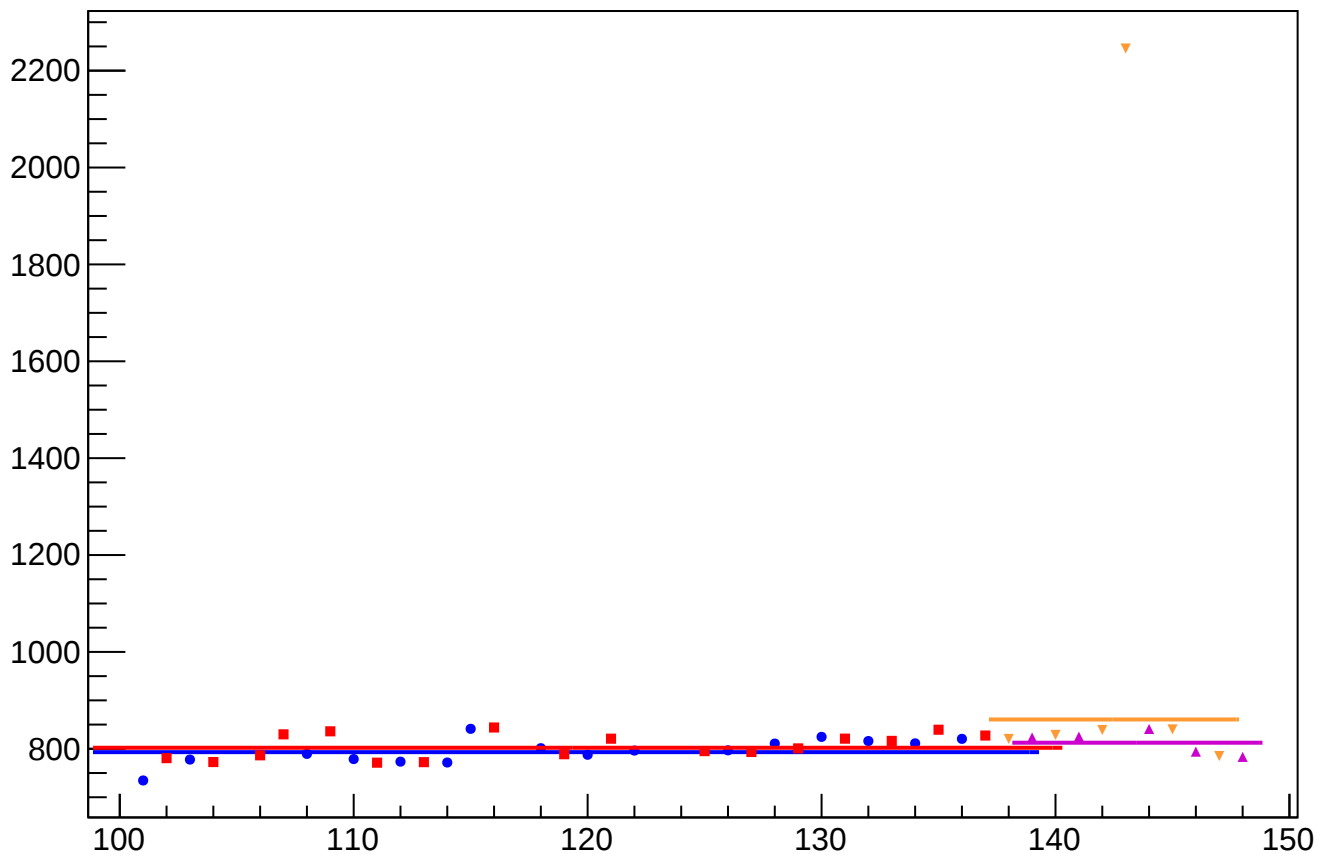
All: -81.206+/-174.036

$\chi^2/\text{NDF}$ : 173.4/43

- sign -2076.790+/-242.460

$\chi^2/\text{NDF}$ : 19.7/21

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



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

Left Out: 860.546+/-0.305  $\chi^2/\text{NDF}$ : 610525.8/5

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

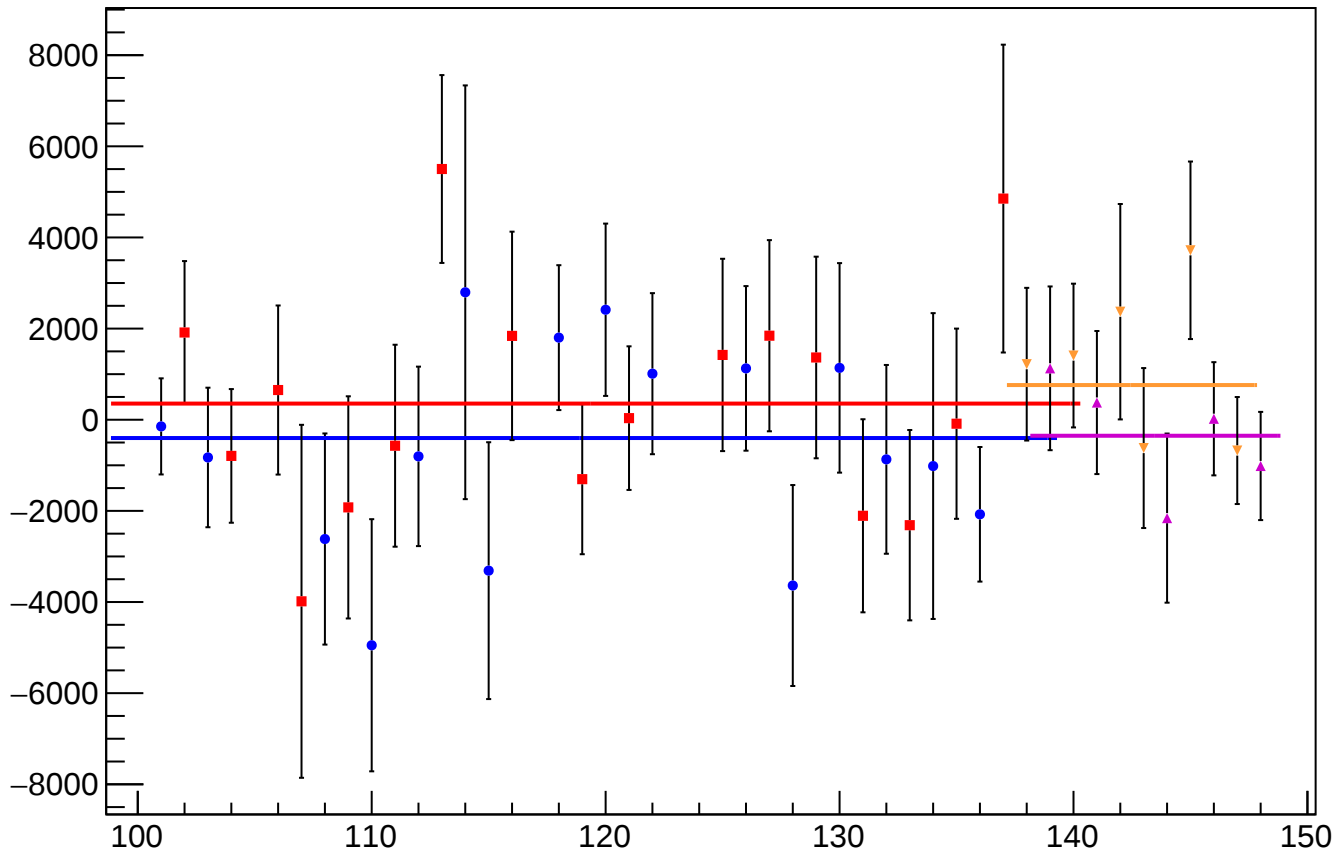
Left In: 812.571+/-0.283  $\chi^2/\text{NDF}$ : 5756.7/4

+ sign 815.761+/-0.177  $\chi^2/\text{NDF}$ : 657728.2/21

All: 810.719+/-0.123  $\chi^2/\text{NDF}$ : 678646.4/43

- sign 805.976+/-0.171  $\chi^2/\text{NDF}$ : 19339.1/21

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



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

Left Out:  $760.933 \pm 666.527$   $\chi^2/\text{NDF}: 5.1/5$

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

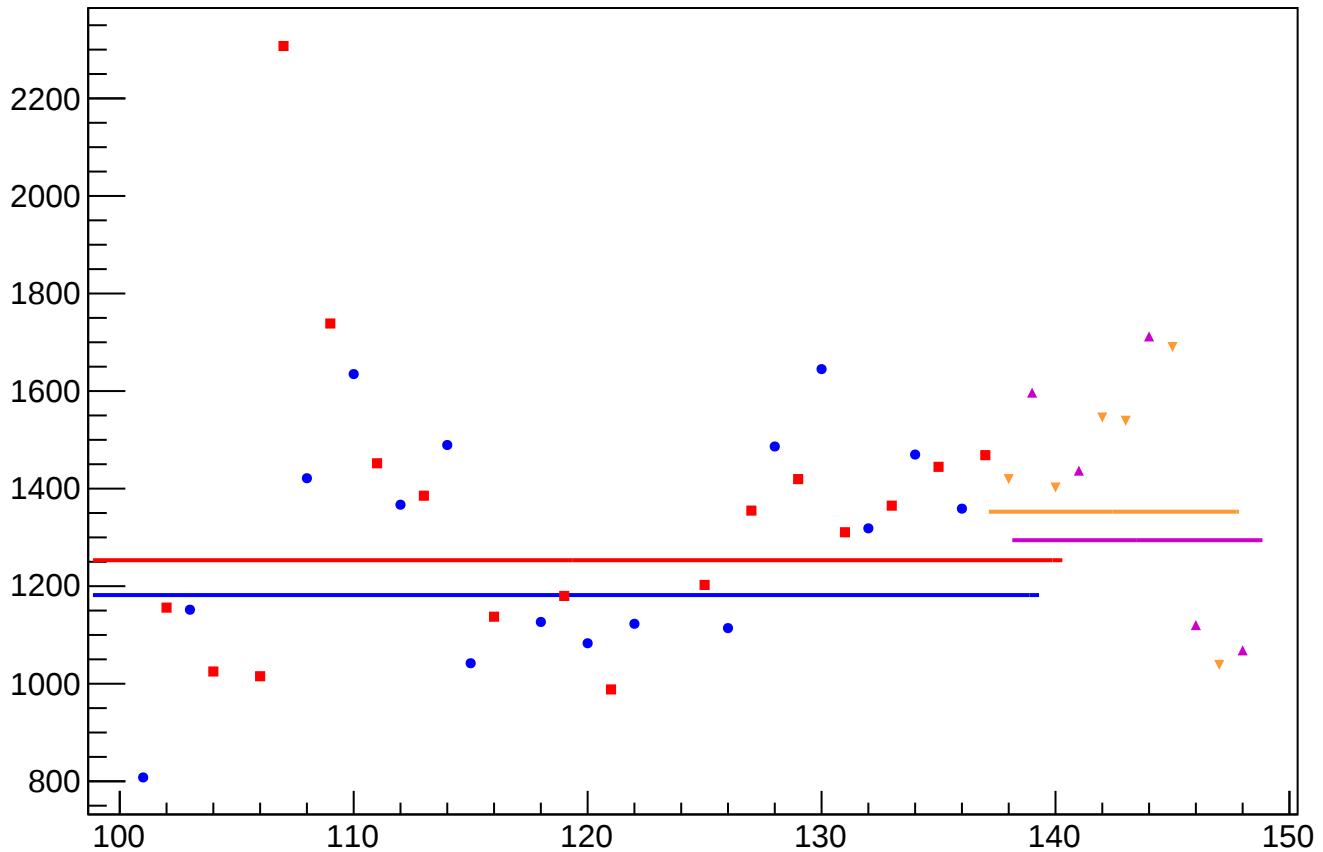
Left In:  $-351.358 \pm 650.425$   $\chi^2/\text{NDF}: 2.2/4$

+ sign  $-16.891 \pm 383.380$   $\chi^2/\text{NDF}: 22.0/21$

All:  $41.220 \pm 273.260$   $\chi^2/\text{NDF}: 42.4/43$

- sign  $101.230 \pm 389.592$   $\chi^2/\text{NDF}: 20.4/21$

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



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

Left Out: 1352.645 $\pm$ 0.471  $\chi^2$ /NDF:244322.5/5

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

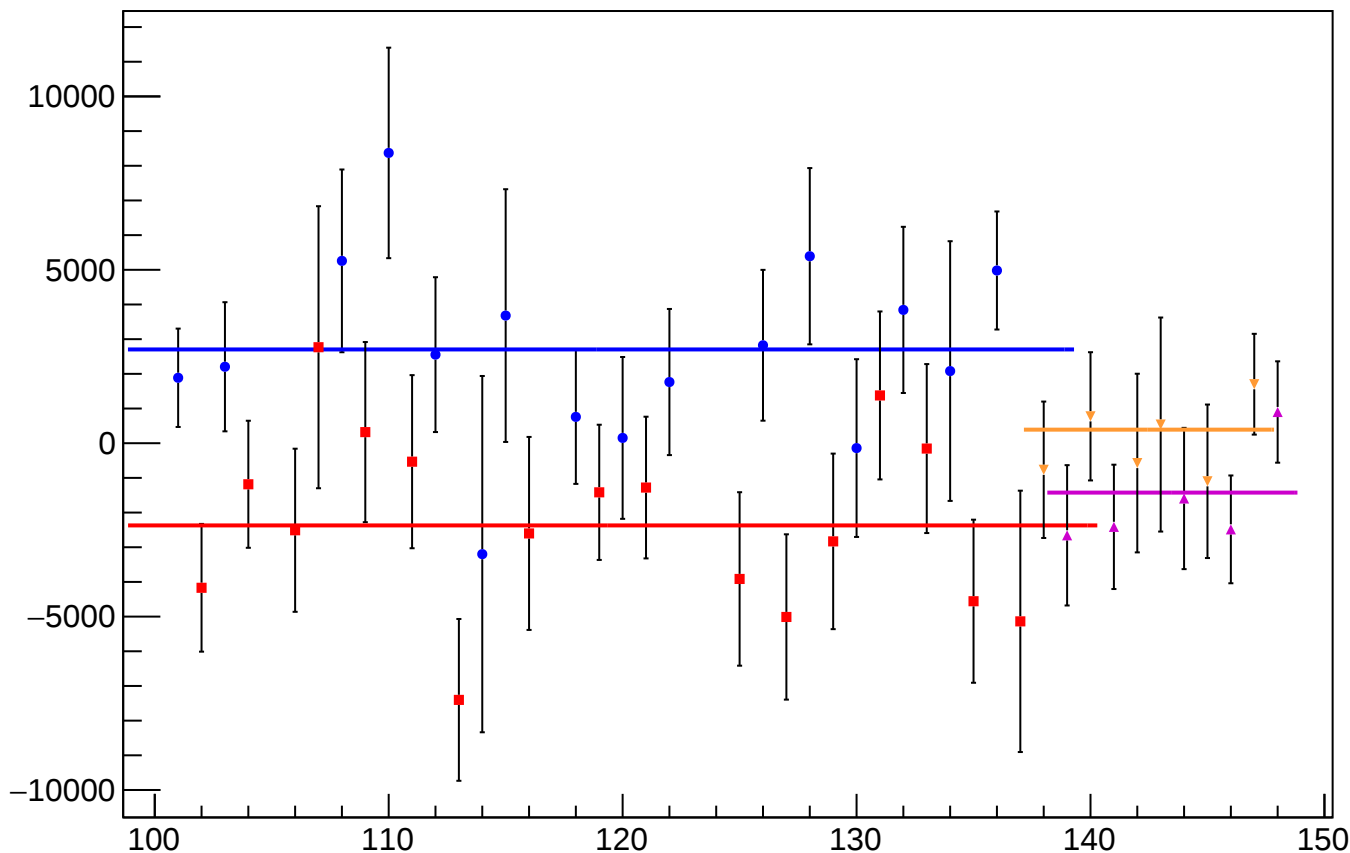
Left In: 1294.244 $\pm$ 0.460  $\chi^2$ /NDF:286270.3/4

+ sign 1238.301 $\pm$ 0.271  $\chi^2$ /NDF: 875777.9/21

All: 1252.882 $\pm$ 0.193  $\chi^2$ /NDF: 1628670.3/43

- sign 1267.939 $\pm$ 0.275  $\chi^2$ /NDF: 747012.0/21

# asym\_us\_avg\_mean vs Slug



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

Left Out: 390.951+/-820.744  $\chi^2/\text{NDF}$ : 1.8/5

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

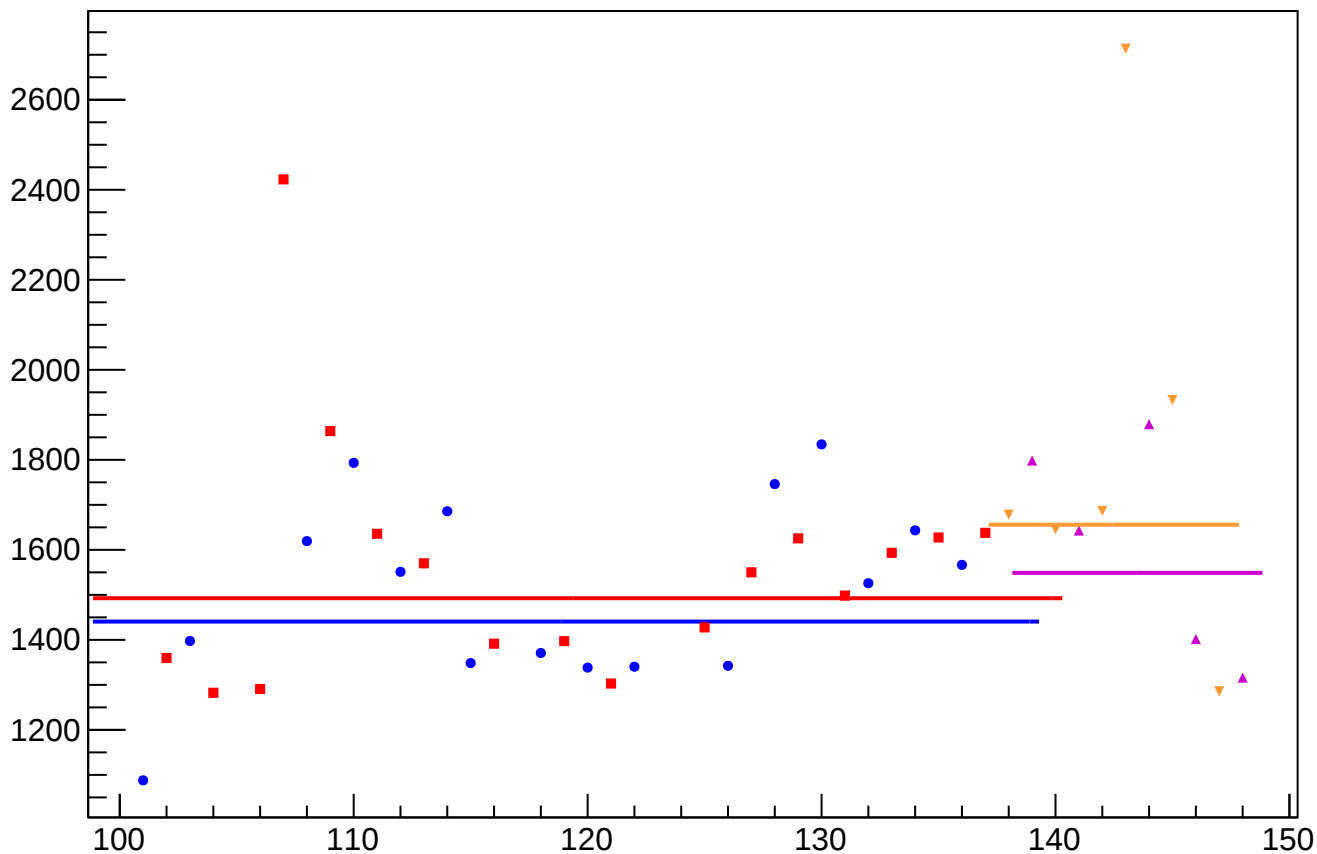
Left In: -1424.485+/-771.854  $\chi^2/\text{NDF}$ : 3.7/4

+ sign 1960.968+/-465.112  $\chi^2/\text{NDF}$ : 20.2/21

All: -57.209+/-327.179  $\chi^2/\text{NDF}$ : 78.2/43

- sign -2034.092+/-460.329  $\chi^2/\text{NDF}$ : 20.7/21

# asym\_us\_avg\_rms vs Slug



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

Left Out: 1655.770+/-0.580  $\chi^2/\text{NDF}$ : 396600.9/5

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

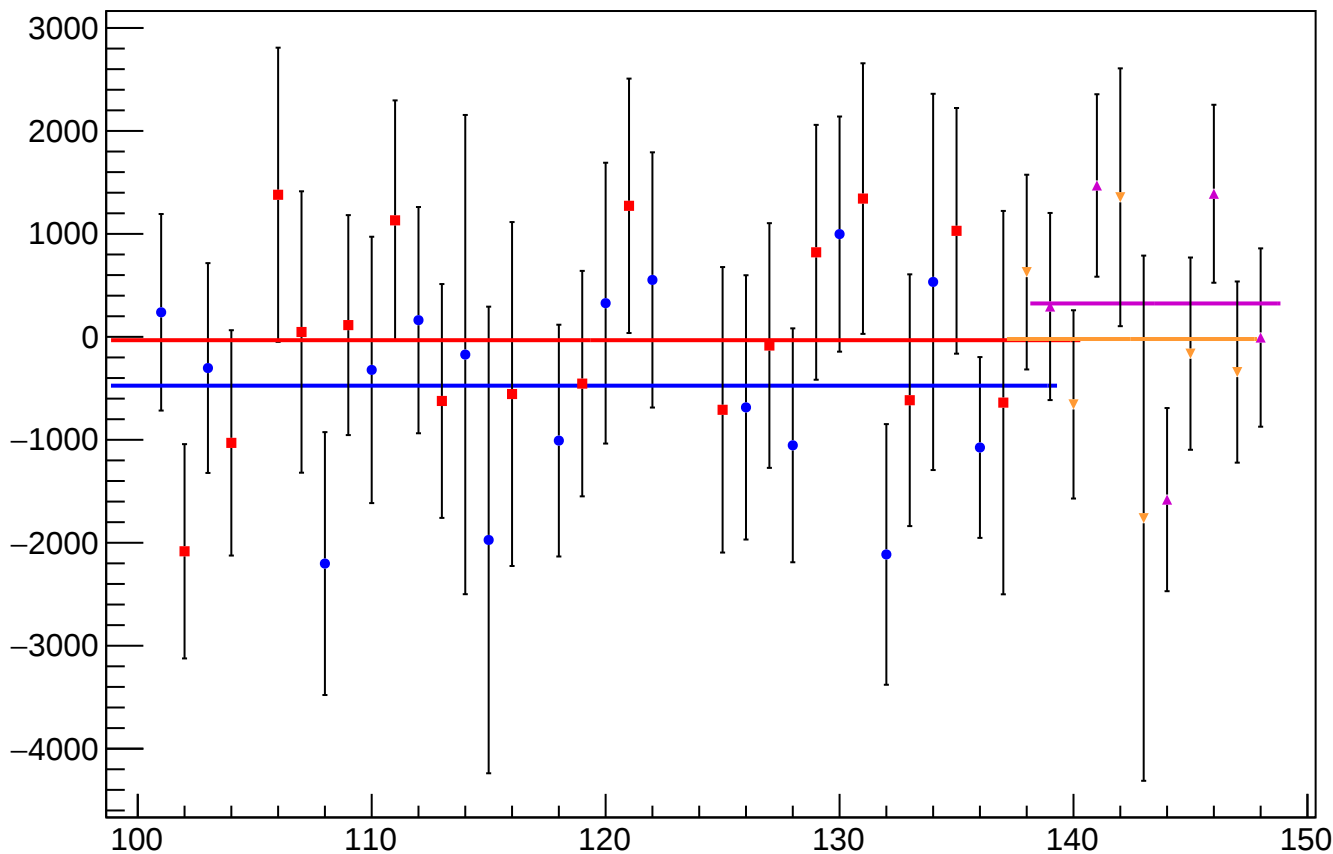
Left In: 1548.889+/-0.546  $\chi^2/\text{NDF}$ : 157171.3/4

+ sign 1509.736+/-0.329  $\chi^2/\text{NDF}$ : 772134.2/21

All: 1511.171+/-0.231  $\chi^2/\text{NDF}$ : 1187719.8/43

- sign 1512.576+/-0.326  $\chi^2/\text{NDF}$ : 415547.9/21

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



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

Left Out:  $-20.919 \pm 424.686$   $\chi^2/\text{NDF}$ : 2.8/5

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

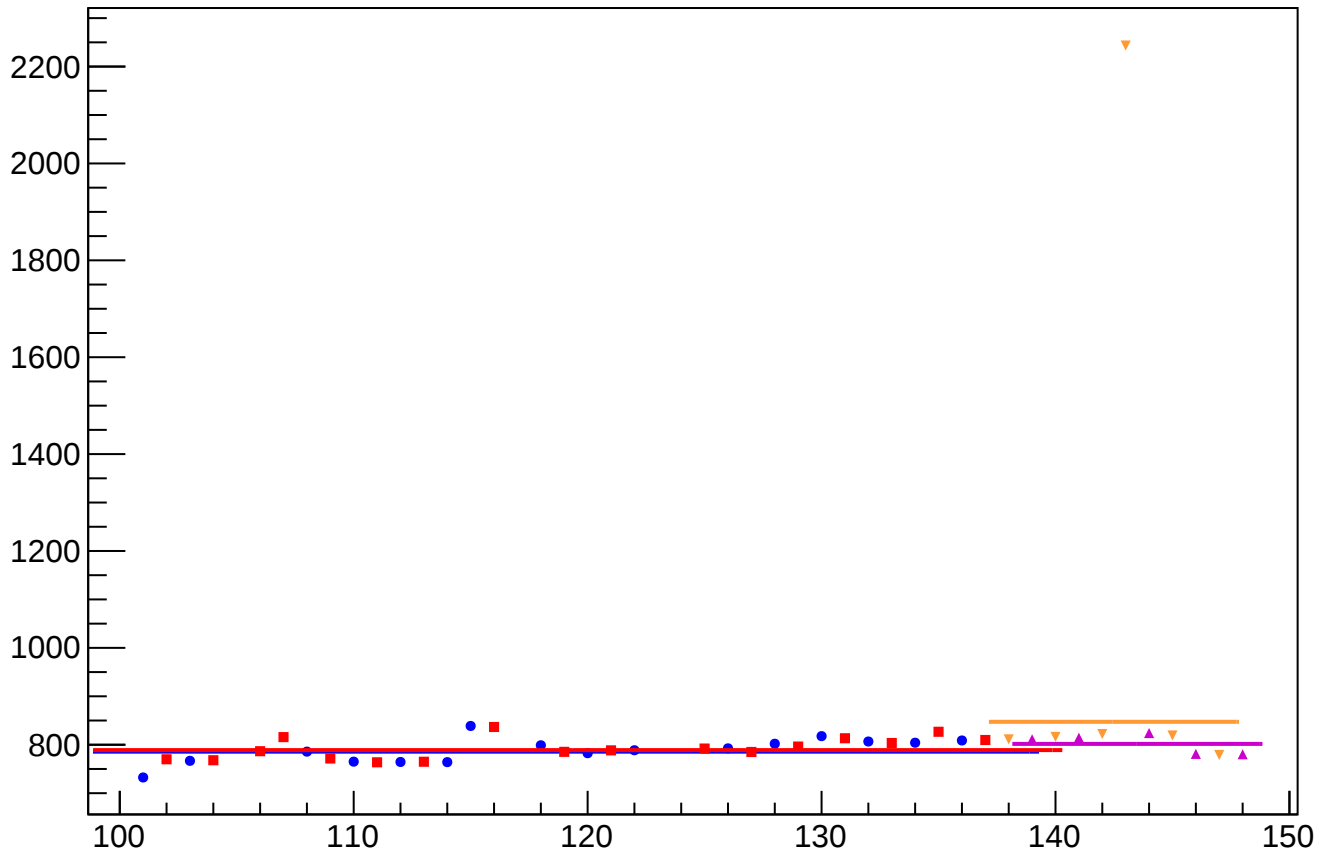
Left In:  $324.378 \pm 394.666$   $\chi^2/\text{NDF}$ : 7.9/4

+ sign  $-320.643 \pm 247.149$   $\chi^2/\text{NDF}$ : 12.4/21

All:  $-103.985 \pm 171.672$   $\chi^2/\text{NDF}$ : 33.6/43

- sign  $98.006 \pm 238.636$   $\chi^2/\text{NDF}$ : 19.7/21

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



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

Left Out: 847.337 $\pm$ 0.300  $\chi^2/\text{NDF}$ : 619200.5/5

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

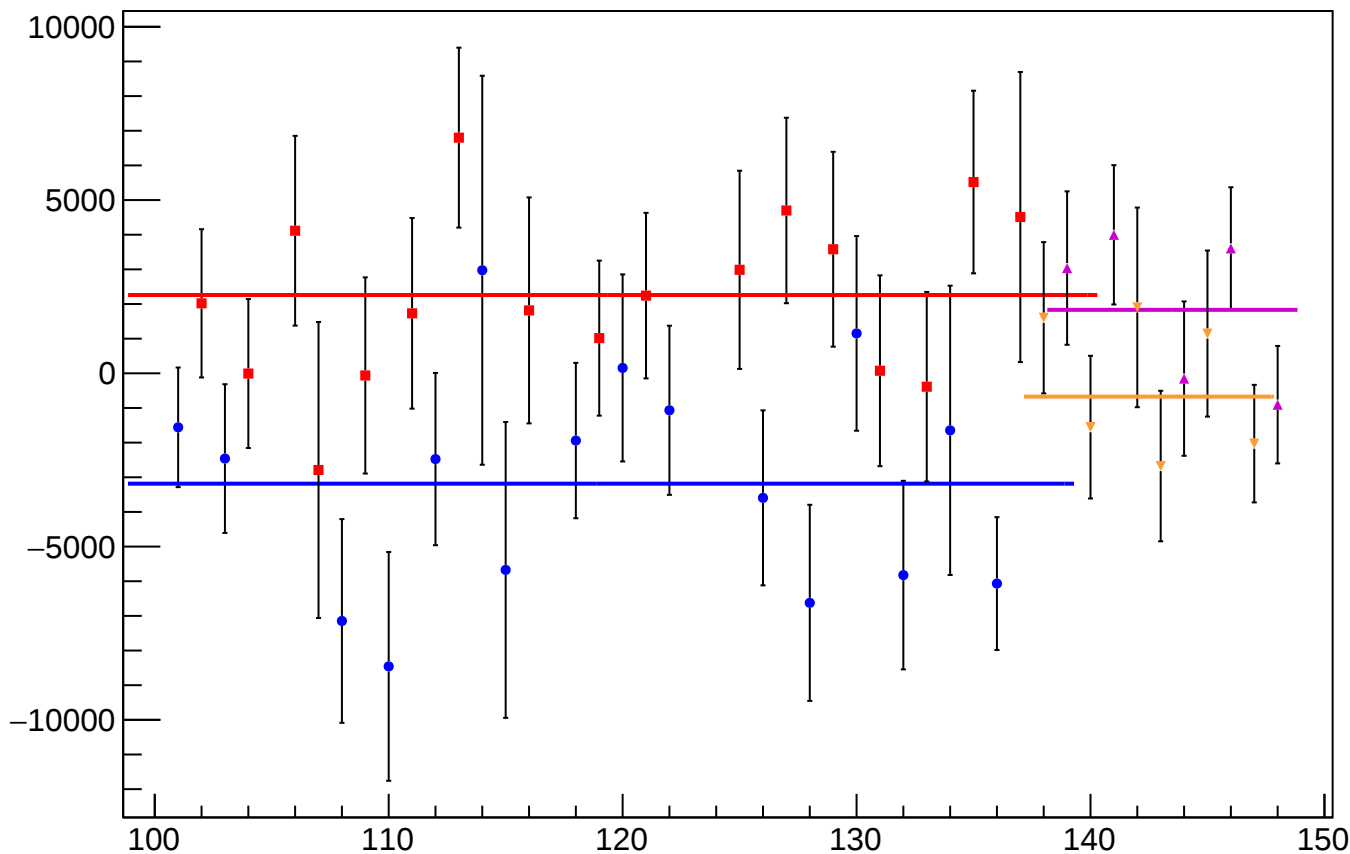
Left In: 801.743 $\pm$ 0.279  $\chi^2/\text{NDF}$ : 4251.4/4

+ sign 806.605 $\pm$ 0.175  $\chi^2/\text{NDF}$ : 660941.8/21

All: 799.886 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 678910.1/43

- sign 793.621 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 15111.6/21

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



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

Left Out:  $-672.204 \pm 877.110$   $\chi^2/\text{NDF}: 4.1/5$

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

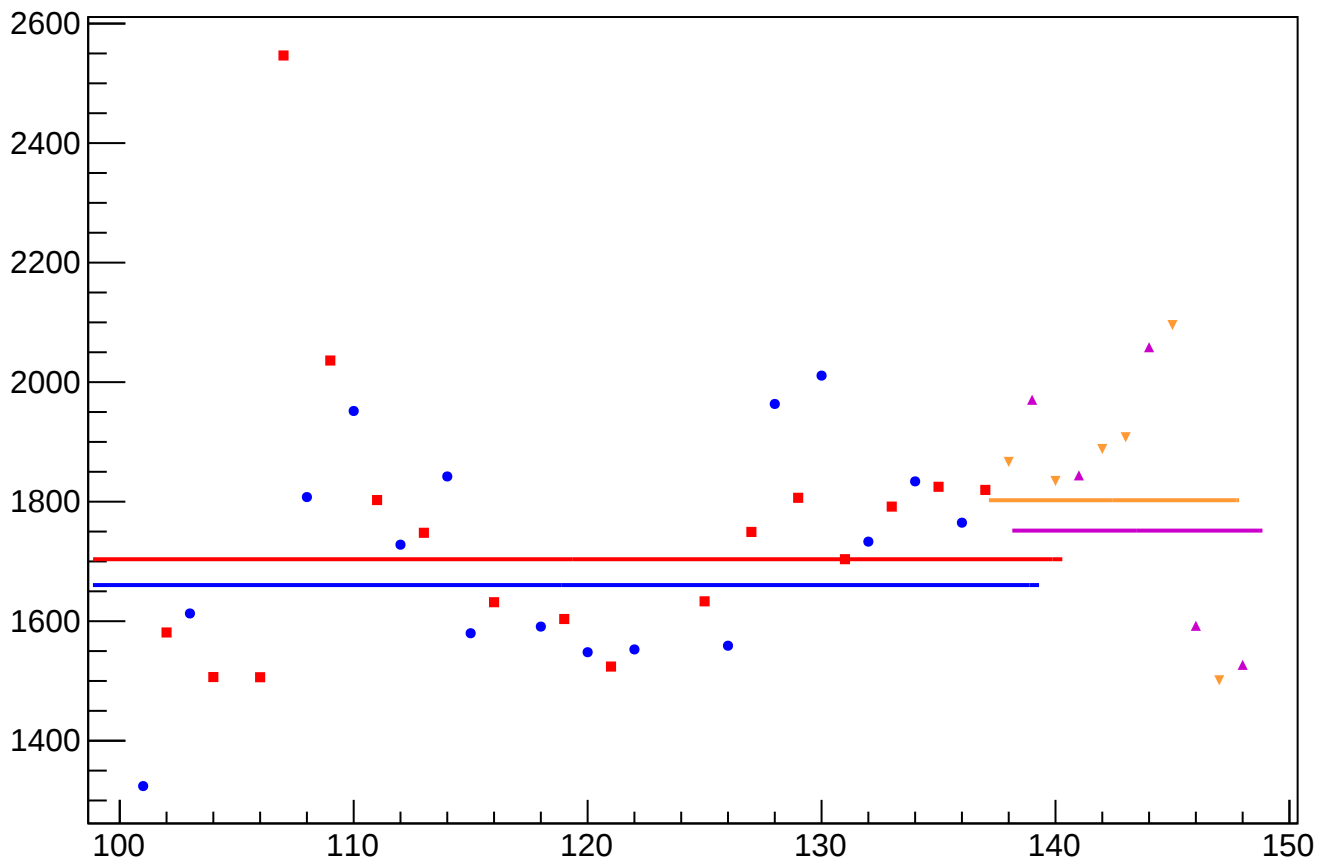
Left In:  $1832.000 \pm 869.551$   $\chi^2/\text{NDF}: 5.9/4$

+ sign  $-2298.578 \pm 520.858$   $\chi^2/\text{NDF}: 26.3/21$

All:  $-99.460 \pm 368.573$   $\chi^2/\text{NDF}: 79.6/43$

- sign  $2106.137 \pm 521.625$   $\chi^2/\text{NDF}: 17.6/21$

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



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

Left Out: 1802.416 $\pm$ 0.620  $\chi^2$ /NDF: 101733.2/5

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

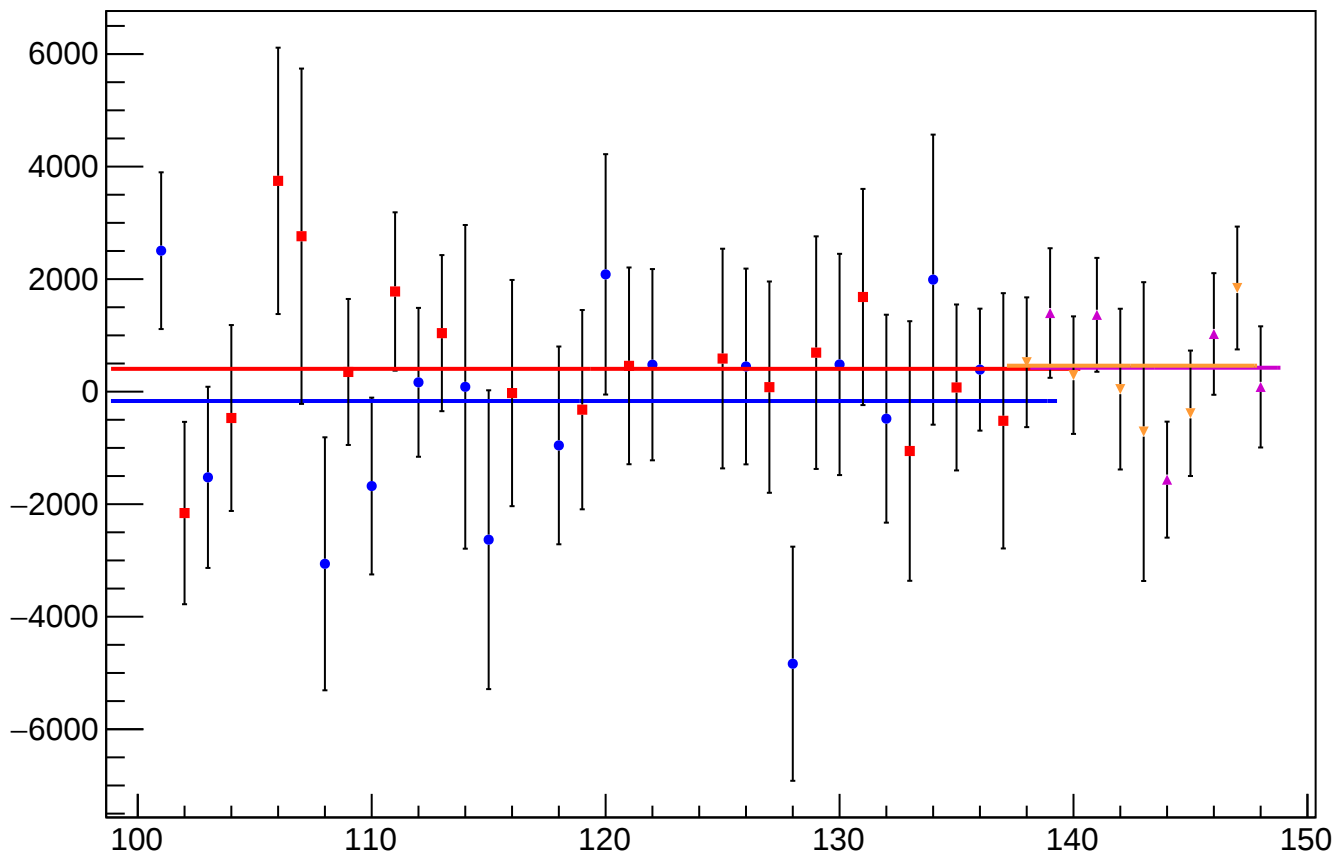
Left In: 1751.608 $\pm$ 0.615  $\chi^2$ /NDF: 113151.0/4

+ sign 1710.520 $\pm$ 0.368  $\chi^2$ /NDF: 314852.2/21

All: 1715.716 $\pm$ 0.261  $\chi^2$ /NDF: 603316.9/43

- sign 1720.927 $\pm$ 0.369  $\chi^2$ /NDF: 288066.2/21

# asym\_us\_dd\_mean vs Slug



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

Left Out: 461.294+/-503.523  $\chi^2/\text{NDF}$ : 2.5/5

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

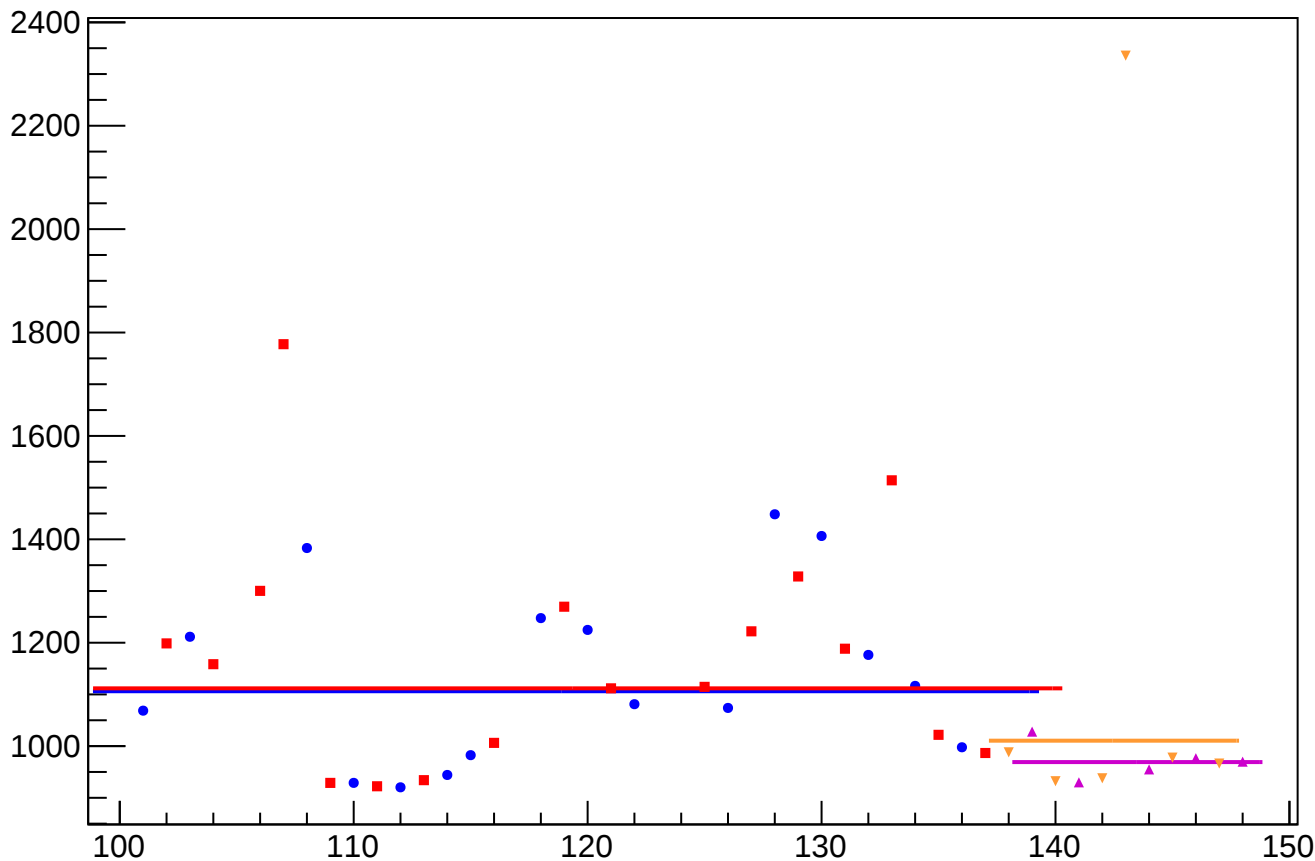
Left In: 424.996+/-477.285  $\chi^2/\text{NDF}$ : 5.7/4

+ sign 100.243+/-328.164  $\chi^2/\text{NDF}$ : 19.0/21

All: 261.656+/-228.702  $\chi^2/\text{NDF}$ : 33.1/43

- sign 414.085+/-318.901  $\chi^2/\text{NDF}$ : 13.6/21

# asym\_us\_dd\_rms vs Slug



Right In: 1106.159 $\pm$ 0.306  $\chi^2$ /NDF: 259917.7/15

Left Out: 1010.509 $\pm$ 0.356  $\chi^2$ /NDF: 520272.9/5

Right Out: 1111.726 $\pm$ 0.303  $\chi^2$ /NDF: 356388.5/16

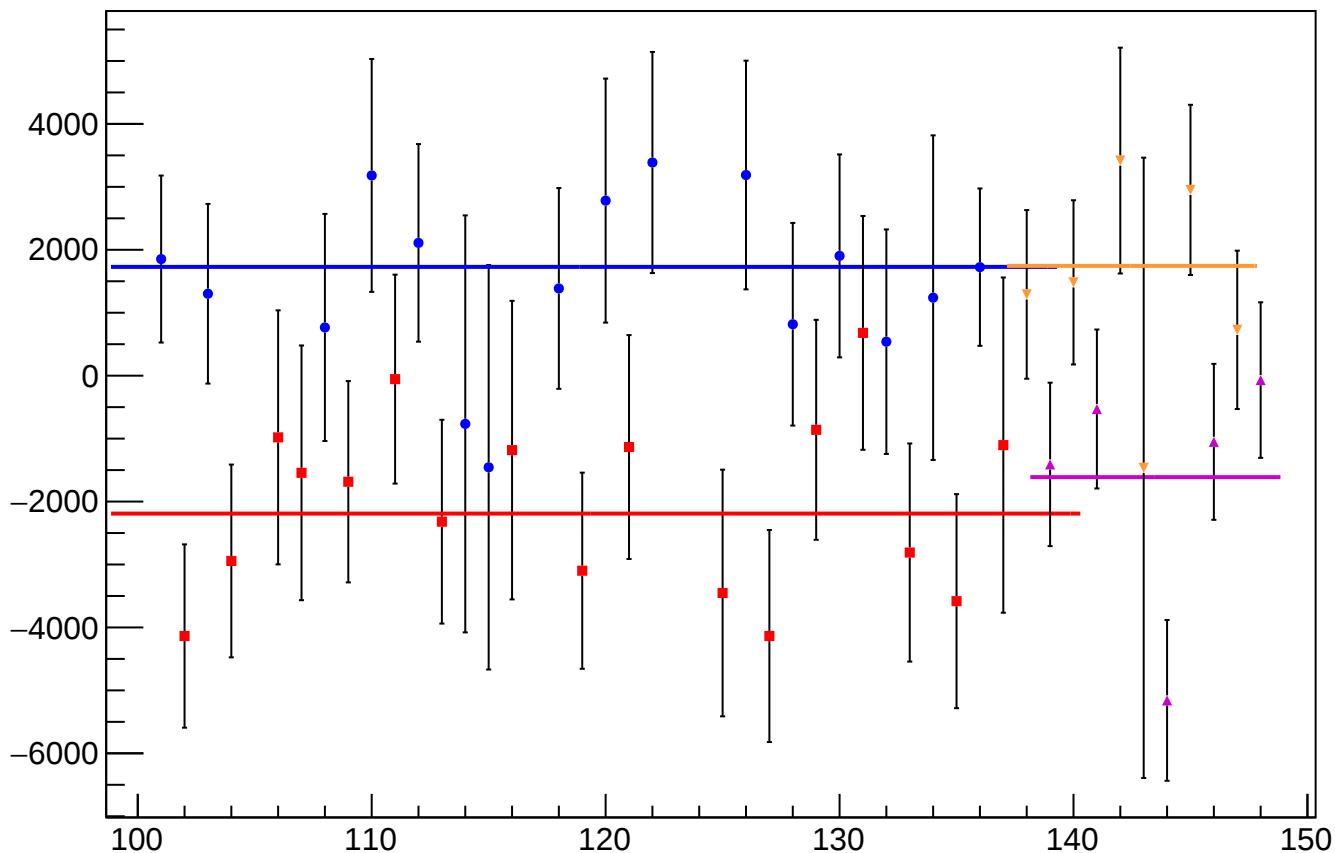
Left In: 969.111 $\pm$ 0.337  $\chi^2$ /NDF: 8700.5/4

+ sign 1065.531 $\pm$ 0.232  $\chi^2$ /NDF: 821705.8/21

All: 1056.544 $\pm$ 0.162  $\chi^2$ /NDF: 1288560.1/43

- sign 1048.058 $\pm$ 0.225  $\chi^2$ /NDF: 463938.3/21

# dit\_asym\_usl\_mean vs Slug



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

Left Out: 1744.232 $\pm$ 611.361  $\chi^2/\text{NDF}$ : 2.9/5

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

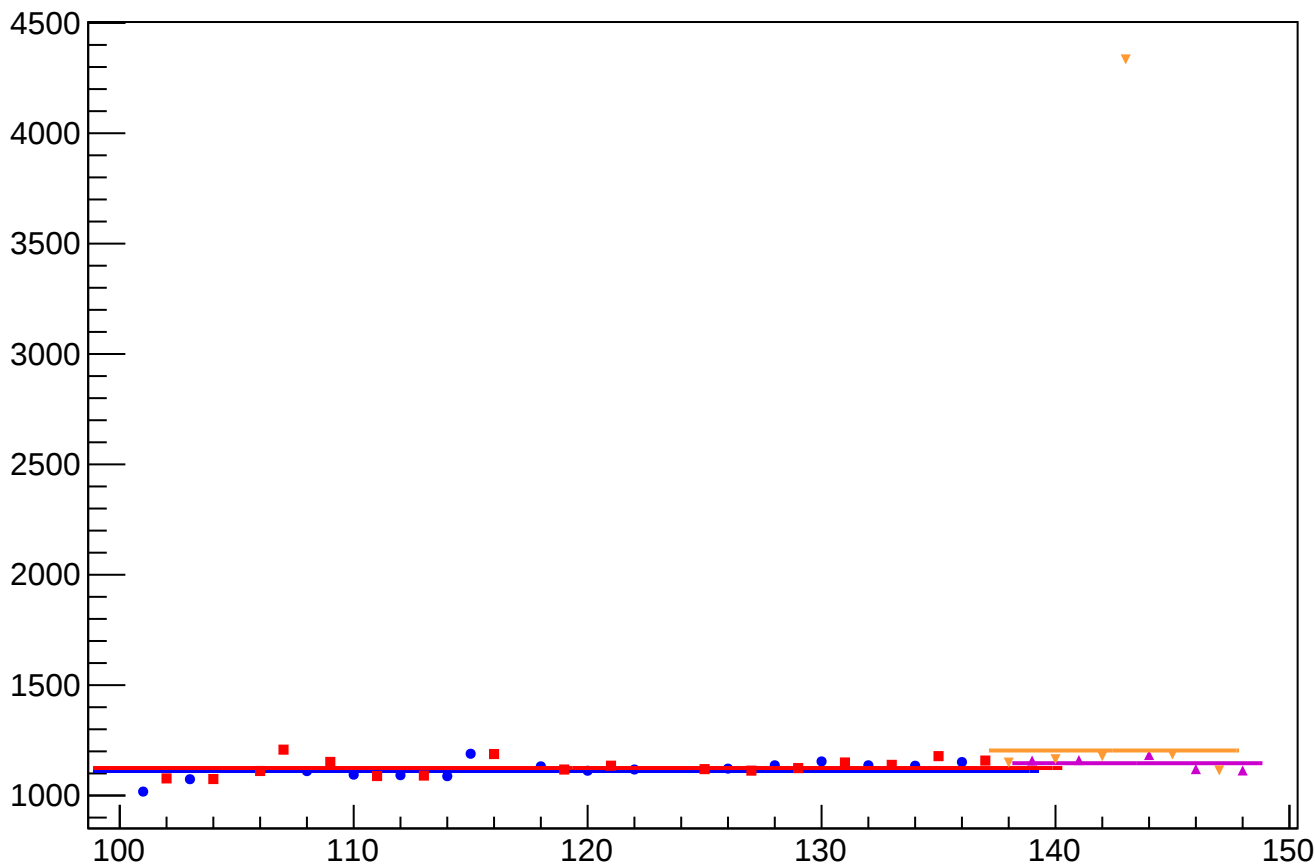
Left In: -1611.949 $\pm$ 564.386  $\chi^2/\text{NDF}$ : 10.2/4

+ sign 1733.679 $\pm$ 351.608  $\chi^2/\text{NDF}$ : 8.2/21

All: -182.038 $\pm$ 244.652  $\chi^2/\text{NDF}$ : 87.4/43

- sign -1980.049 $\pm$ 340.635  $\chi^2/\text{NDF}$ : 21.7/21

# dit\_asym\_usl\_rms vs Slug



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

Left Out: 1203.916+/-0.432  $\chi^2/\text{NDF}$ : 823387.9/5

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

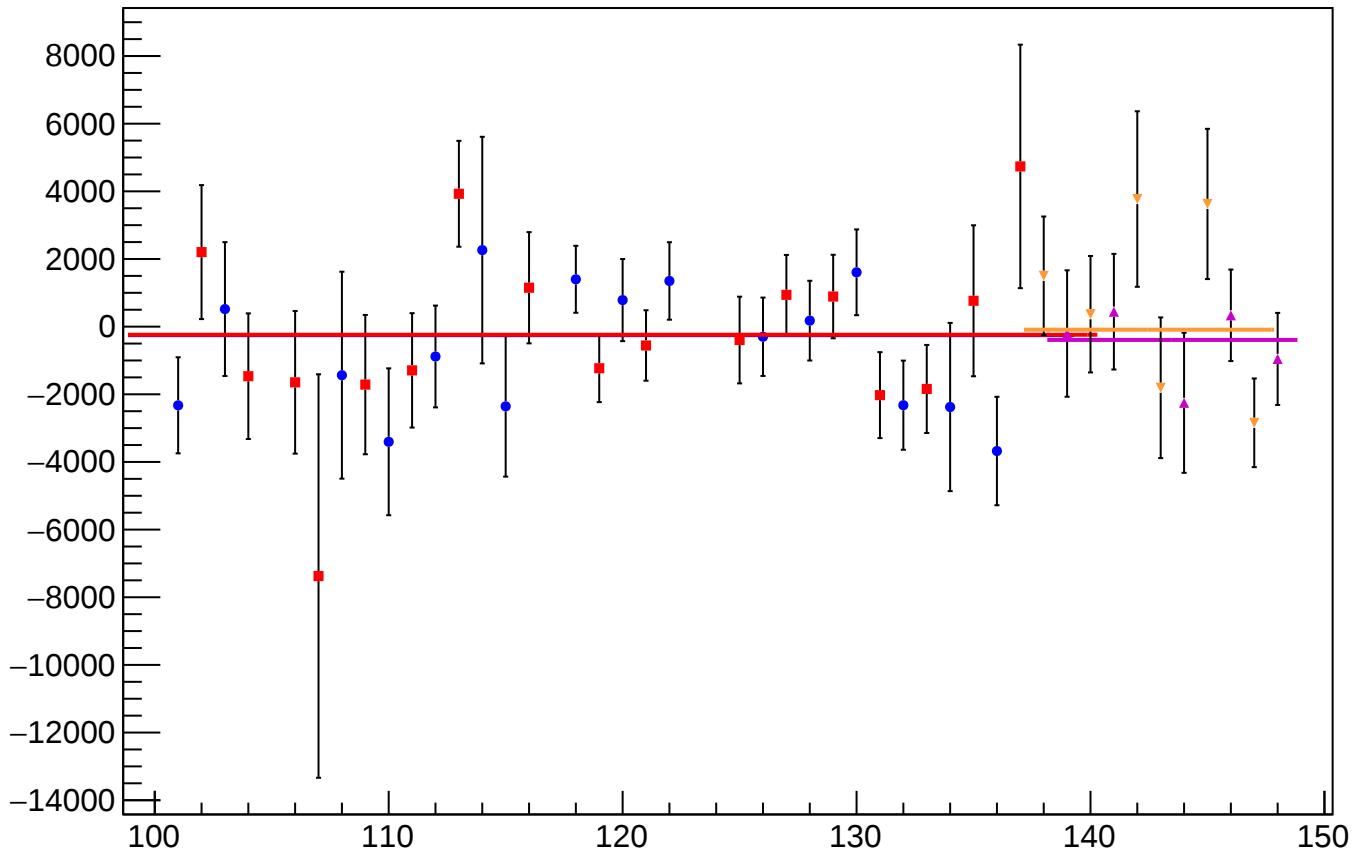
Left In: 1146.342+/-0.399  $\chi^2/\text{NDF}$ : 4465.7/4

+ sign 1141.762+/-0.249  $\chi^2/\text{NDF}$ : 872367.5/21

All: 1136.966+/-0.173  $\chi^2/\text{NDF}$ : 894056.9/43

- sign 1132.465+/-0.241  $\chi^2/\text{NDF}$ : 20968.2/21

# asym\_usl\_correction\_mean vs Slug



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

Left Out:  $-89.930 \pm 739.659$   $\chi^2/\text{NDF}$ : 11.0/5

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

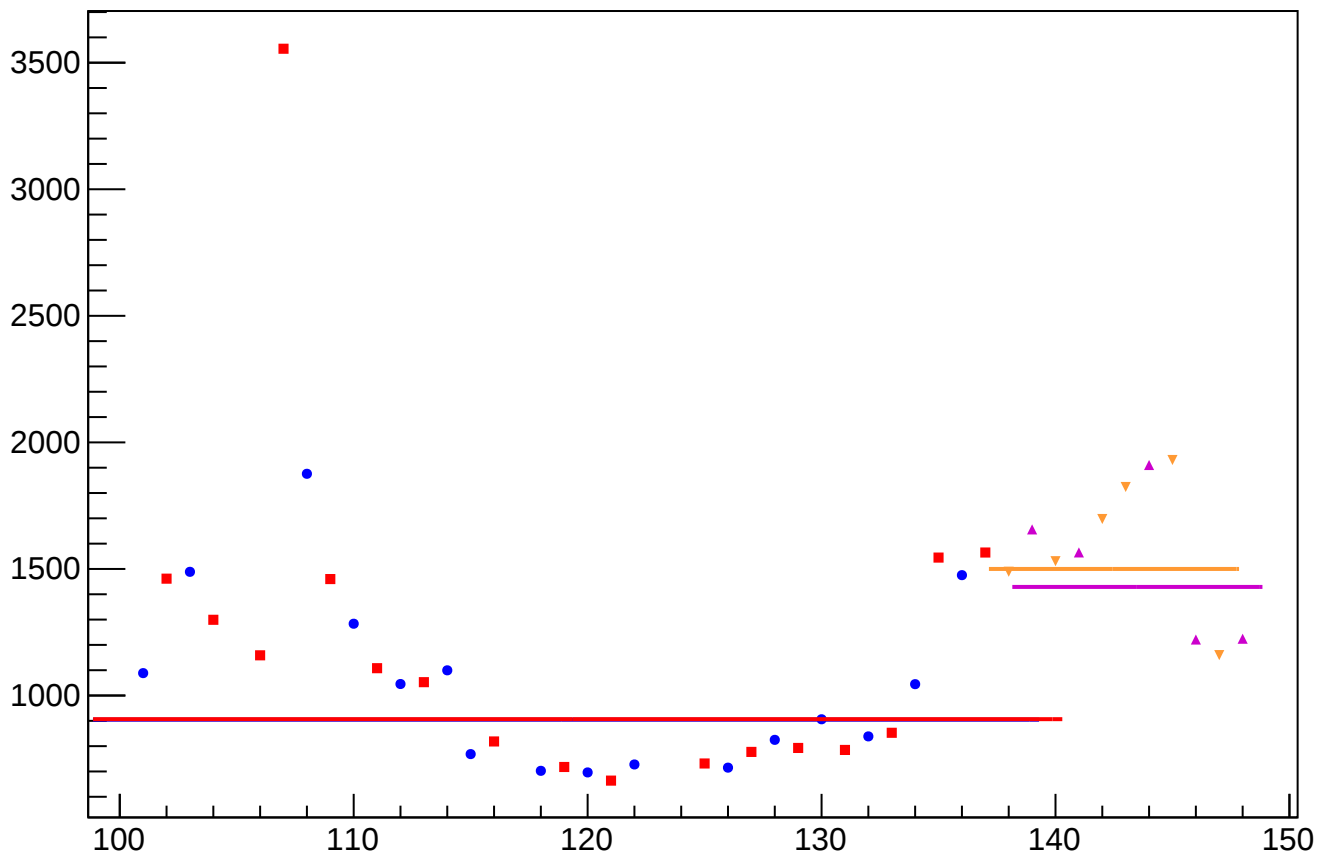
Left In:  $-392.520 \pm 716.407$   $\chi^2/\text{NDF}$ : 1.5/4

+ sign  $-219.728 \pm 327.281$   $\chi^2/\text{NDF}$ : 32.9/21

All:  $-245.673 \pm 230.398$   $\chi^2/\text{NDF}$ : 55.5/43

- sign  $-271.164 \pm 324.402$   $\chi^2/\text{NDF}$ : 22.6/21

# asym\_usl\_correction\_rms vs Slug



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

Left Out: 1500.031+/-0.523  $\chi^2/\text{NDF}$ : 270763.2/5

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

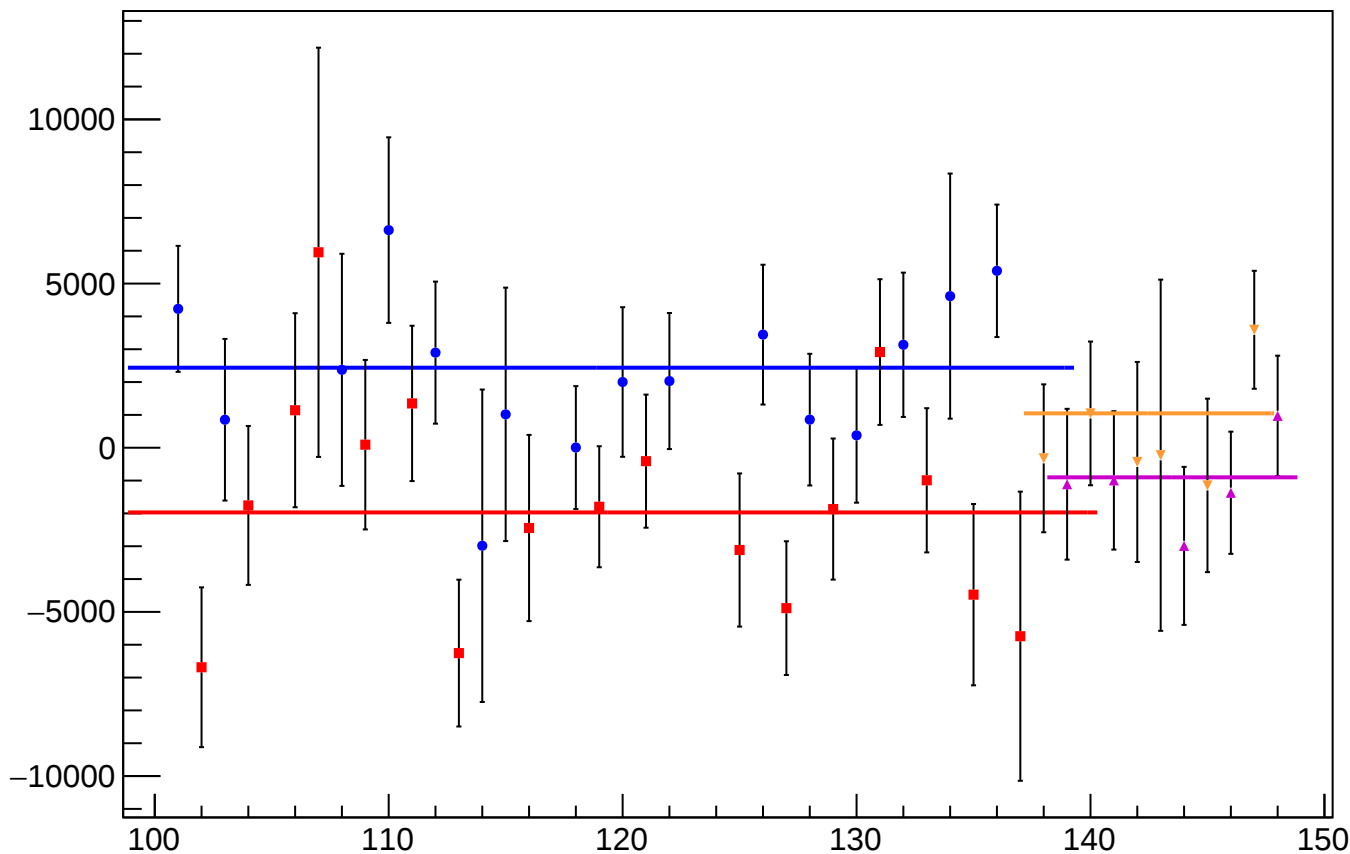
Left In: 1429.036+/-0.507  $\chi^2/\text{NDF}$ : 242978.3/4

+ sign 1021.086+/-0.231  $\chi^2/\text{NDF}$ : 2334571.5/21

All: 1017.370+/-0.163  $\chi^2/\text{NDF}$ : 4799668.7/43

- sign 1013.718+/-0.229  $\chi^2/\text{NDF}$ : 2464585.8/21

# asym\_usl\_mean vs Slug



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

Left Out:  $1047.403 \pm 999.106$   $\chi^2/\text{NDF}: 3.4/5$

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

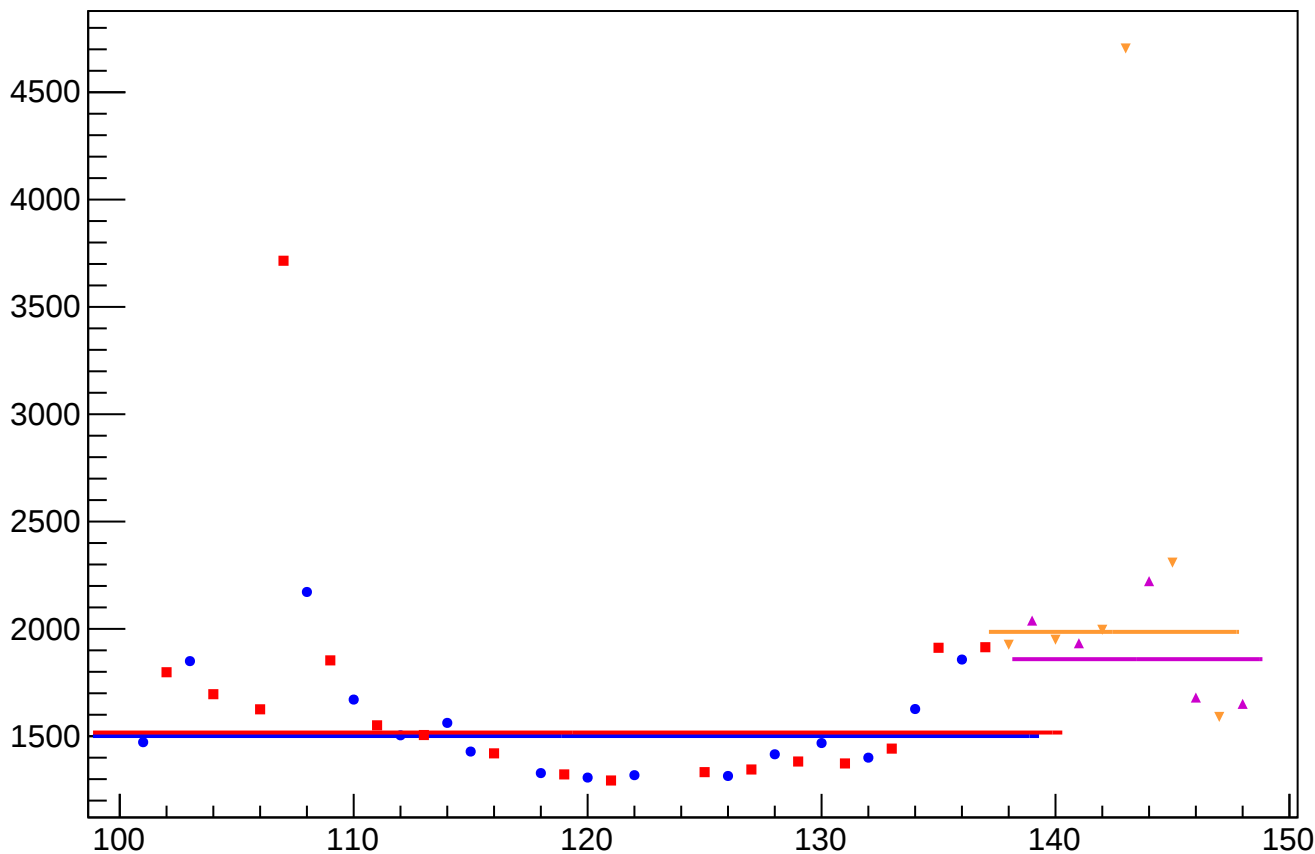
Left In:  $-901.234 \pm 922.905$   $\chi^2/\text{NDF}: 1.9/4$

+ sign  $2081.491 \pm 505.619$   $\chi^2/\text{NDF}: 16.0/21$

All:  $170.025 \pm 353.749$   $\chi^2/\text{NDF}: 69.1/43$

- sign  $-1662.738 \pm 495.101$   $\chi^2/\text{NDF}: 25.1/21$

# asym\_usl\_rms vs Slug



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

Left Out: 1986.104+/-0.706  $\chi^2/\text{NDF}$ : 645629.2/5

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

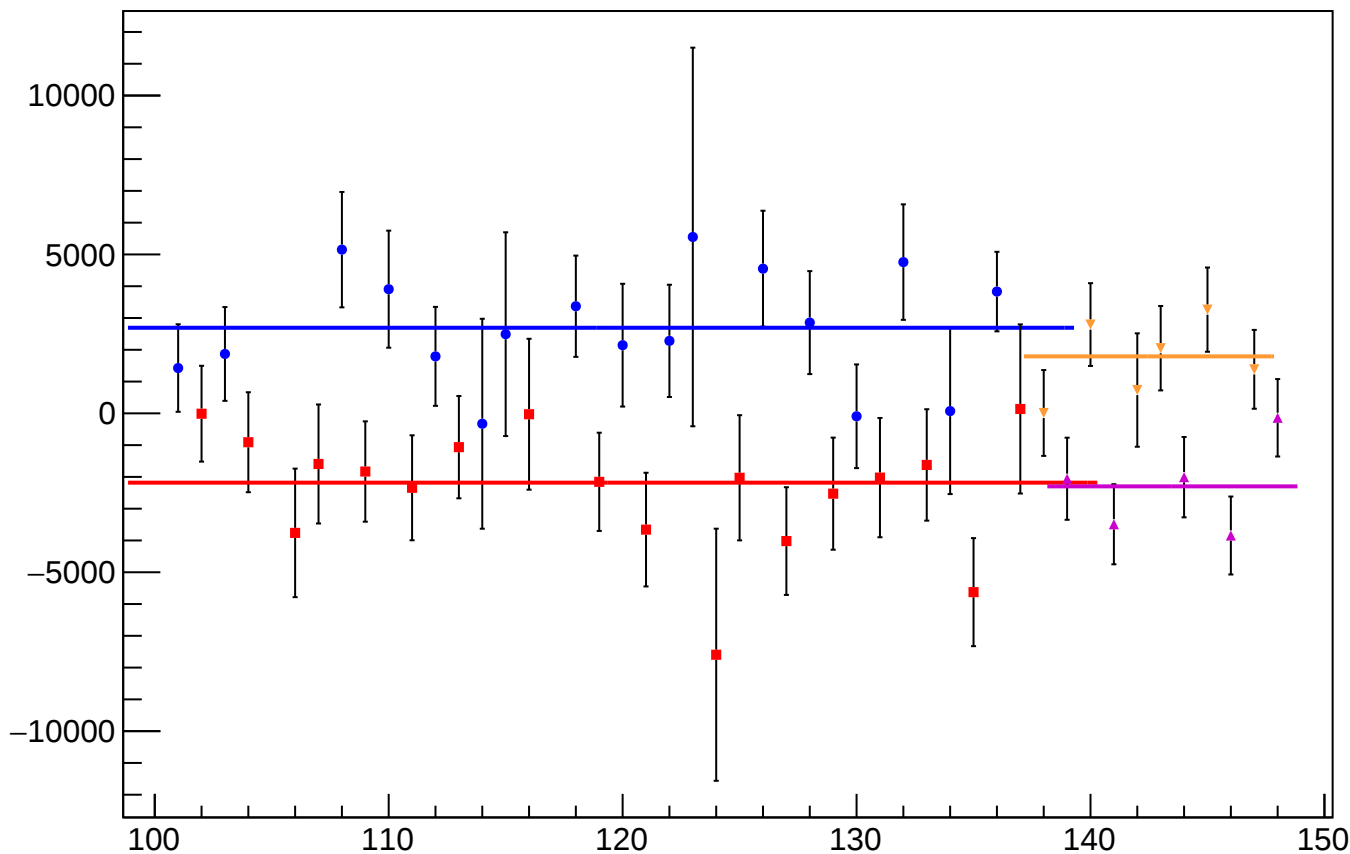
Left In: 1858.901+/-0.653  $\chi^2/\text{NDF}$ : 104622.3/4

+ sign 1625.112+/-0.358  $\chi^2/\text{NDF}$ : 1252844.2/21

All: 1620.195+/-0.250  $\chi^2/\text{NDF}$ : 2028237.5/43

- sign 1615.481+/-0.350  $\chi^2/\text{NDF}$ : 775022.8/21

# dit\_asym\_usr\_mean vs Slug



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

Left Out: 1792.377 $\pm$ 555.706  $\chi^2$ /NDF: 4.1/5

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

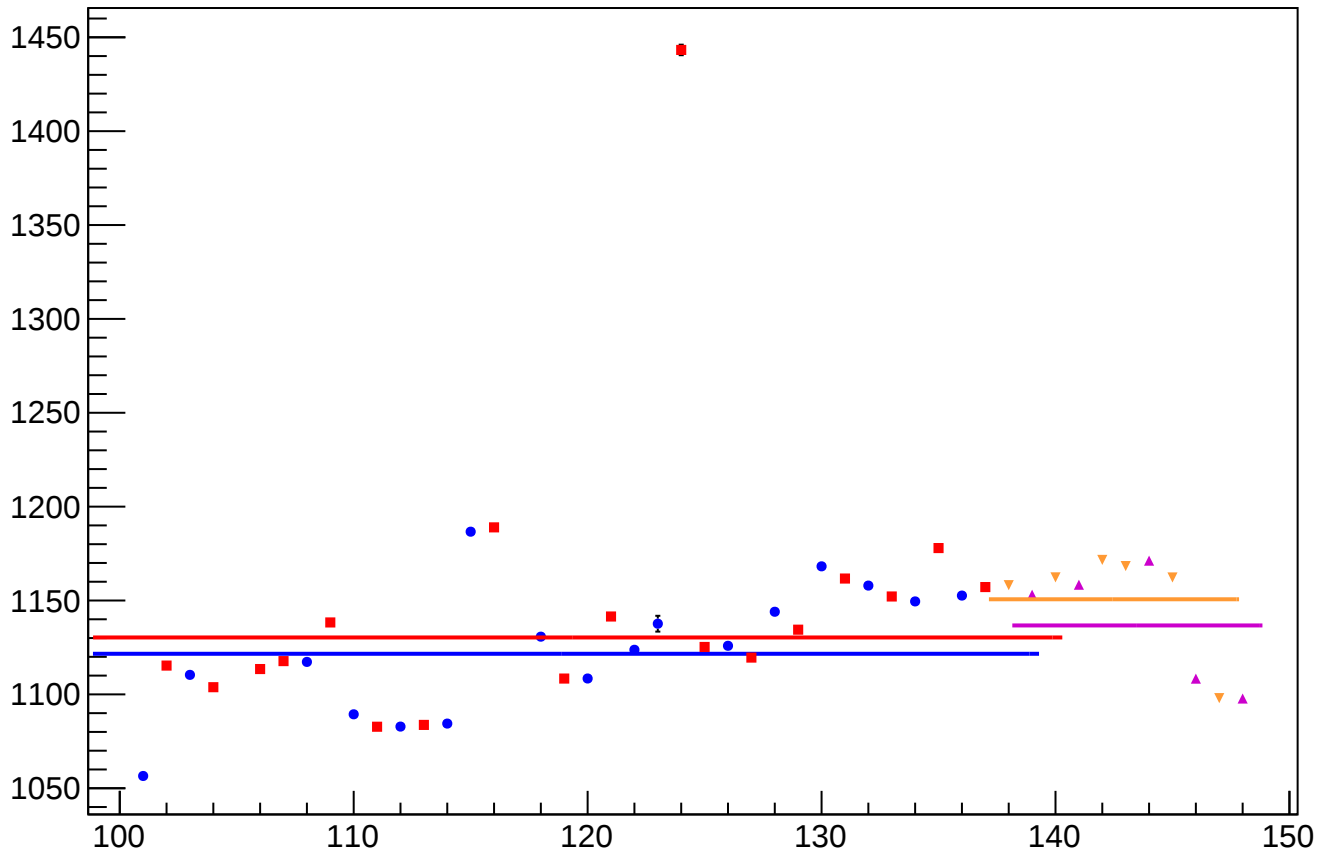
Left In: -2297.569 $\pm$ 559.612  $\chi^2$ /NDF: 5.7/4

+ sign 2353.142 $\pm$ 341.367  $\chi^2$ /NDF: 17.9/22

All: 46.681 $\pm$ 240.429  $\chi^2$ /NDF: 127.8/45

- sign -2223.685 $\pm$ 338.685  $\chi^2$ /NDF: 19.3/22

# dit\_asym\_usr\_rms vs Slug



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

Left Out: 1150.657 $\pm$ 0.393  $\chi^2$ /NDF: 4611.4/5

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

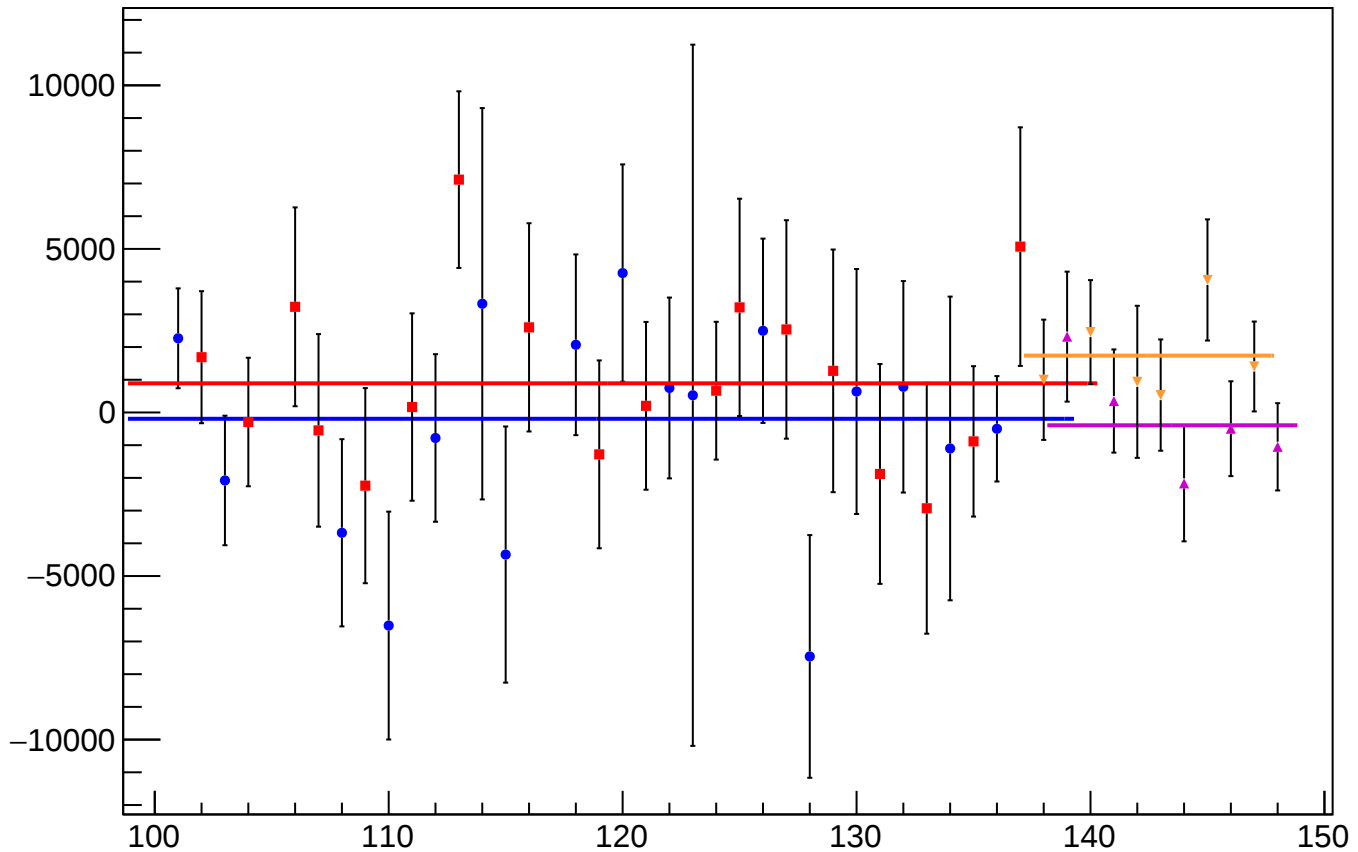
Left In: 1136.719 $\pm$ 0.396  $\chi^2$ /NDF: 5512.5/4

+ sign 1132.581 $\pm$ 0.241  $\chi^2$ /NDF: 19990.1/22

All: 1132.622 $\pm$ 0.170  $\chi^2$ /NDF: 46944.7/45

- sign 1132.661 $\pm$ 0.239  $\chi^2$ /NDF: 26954.6/22

# asym\_usr\_correction\_mean vs Slug



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

Left Out:  $1737.936 \pm 699.337$   $\chi^2/\text{NDF}$ : 2.6/5

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

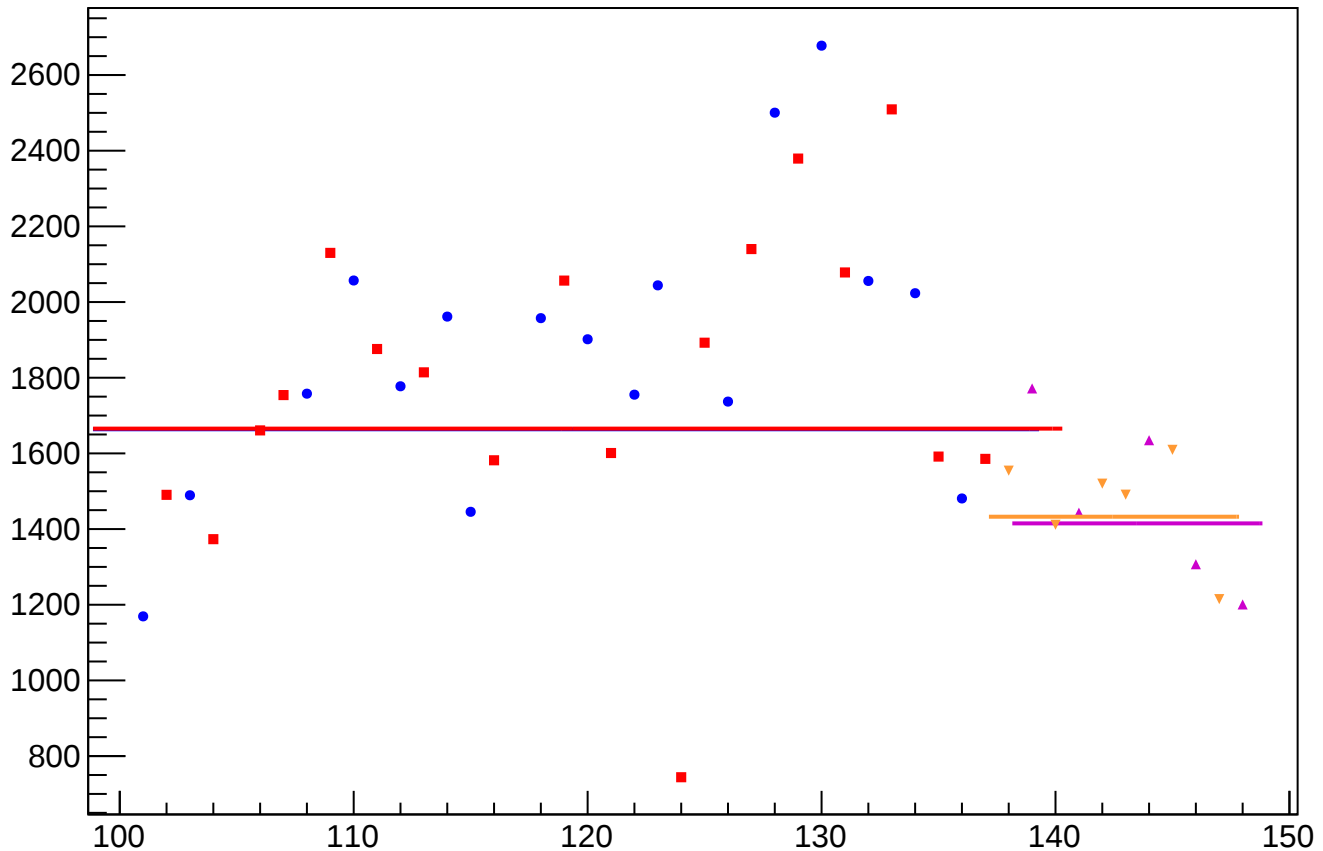
Left In:  $-391.825 \pm 705.096$   $\chi^2/\text{NDF}$ : 3.3/4

+ sign  $716.983 \pm 480.133$   $\chi^2/\text{NDF}$ : 24.0/22

All:  $508.564 \pm 338.633$   $\chi^2/\text{NDF}$ : 42.6/45

- sign  $302.274 \pm 477.675$   $\chi^2/\text{NDF}$ : 18.2/22

# asym\_usr\_correction\_rms vs Slug



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

Left Out: 1432.655+/-0.495  $\chi^2/\text{NDF}$ : 82799.2/5

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

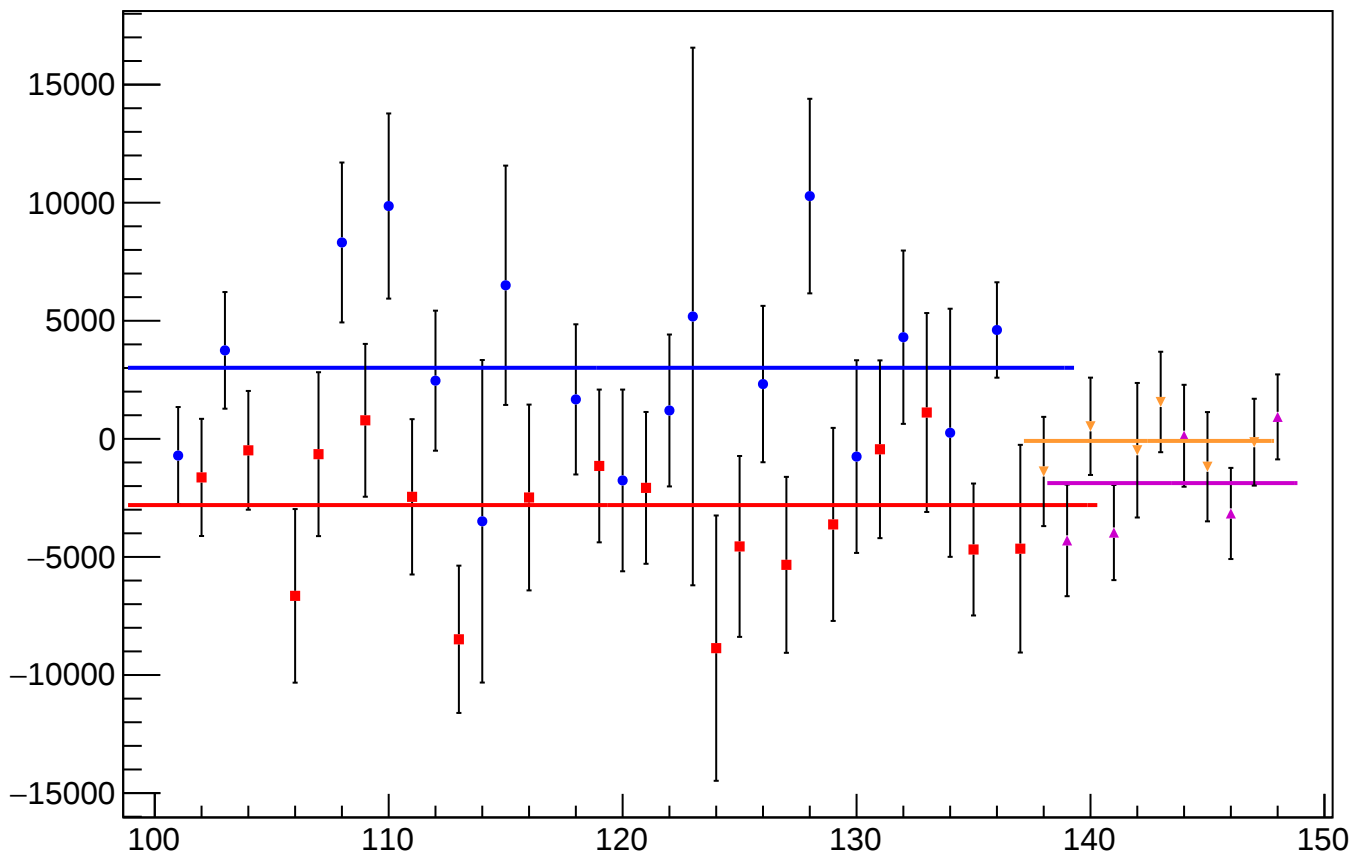
Left In: 1415.012+/-0.499  $\chi^2/\text{NDF}$ : 158559.8/4

+ sign 1554.837+/-0.340  $\chi^2/\text{NDF}$ : 820757.8/22

All: 1552.667+/-0.239  $\chi^2/\text{NDF}$ : 1918719.7/45

- sign 1550.519+/-0.338  $\chi^2/\text{NDF}$ : 1097880.6/22

# asym\_usr\_mean vs Slug



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

Left Out:  $-87.469 \pm 894.713$   $\chi^2/\text{NDF}: 1.2/5$

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

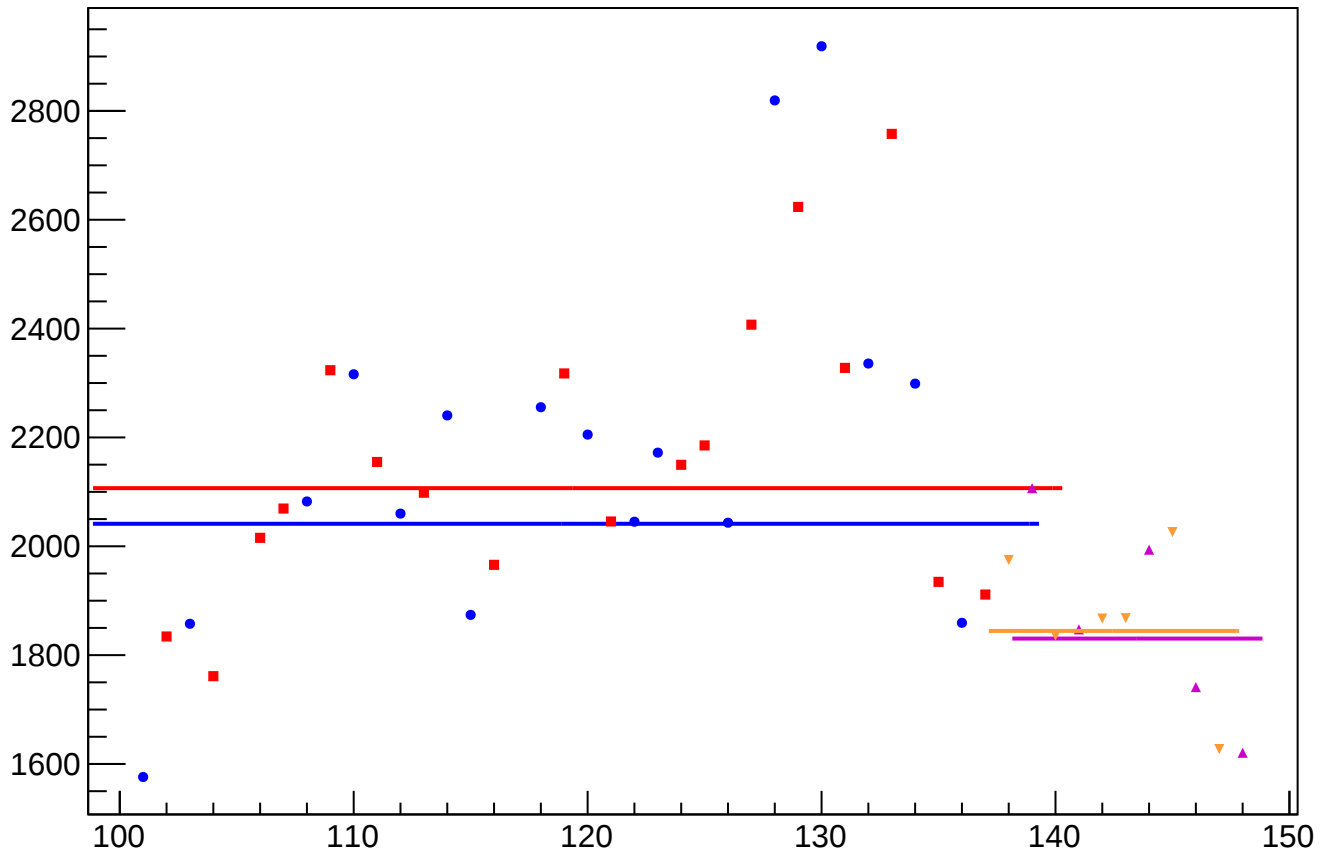
Left In:  $-1873.306 \pm 906.108$   $\chi^2/\text{NDF}: 5.9/4$

+ sign  $1634.060 \pm 596.223$   $\chi^2/\text{NDF}: 25.3/22$

All:  $-370.072 \pm 422.760$   $\chi^2/\text{NDF}: 65.7/45$

- sign  $-2396.532 \pm 599.535$   $\chi^2/\text{NDF}: 17.7/22$

# asym\_usr\_rms vs Slug



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

Left Out:  $1844.497 \pm 0.633$   $\chi^2/\text{NDF}$ : 46946.9/5

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

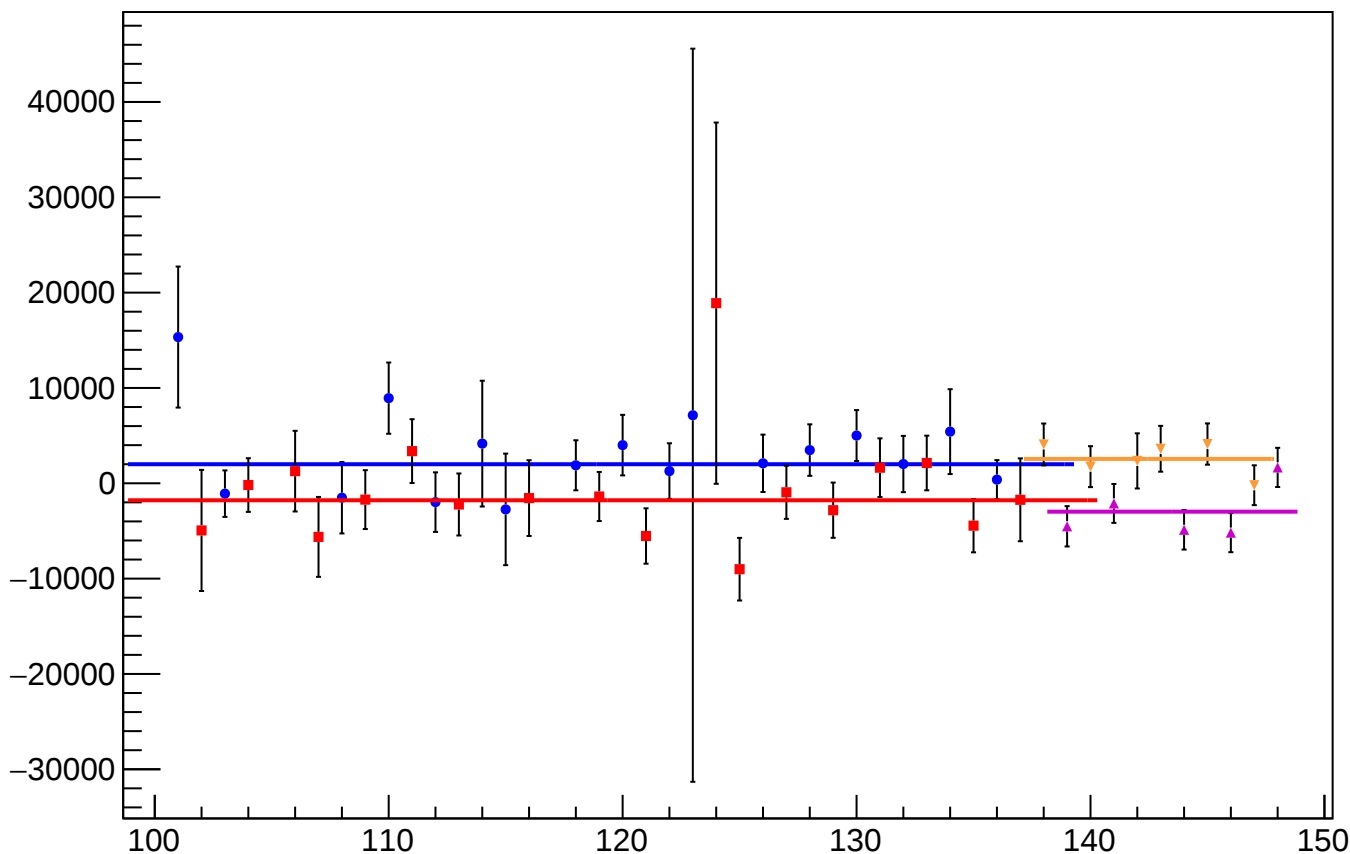
Left In:  $1830.440 \pm 0.641$   $\chi^2/\text{NDF}$ : 70453.5/4

+ sign  $1953.933 \pm 0.422$   $\chi^2/\text{NDF}$ : 439206.0/22

All:  $1969.796 \pm 0.299$   $\chi^2/\text{NDF}$ : 813857.7/45

- sign  $1985.836 \pm 0.424$   $\chi^2/\text{NDF}$ : 371804.3/22

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



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

Left Out: 2556.019 $\pm$ 928.395  $\chi^2$ /NDF: 3.1/5

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

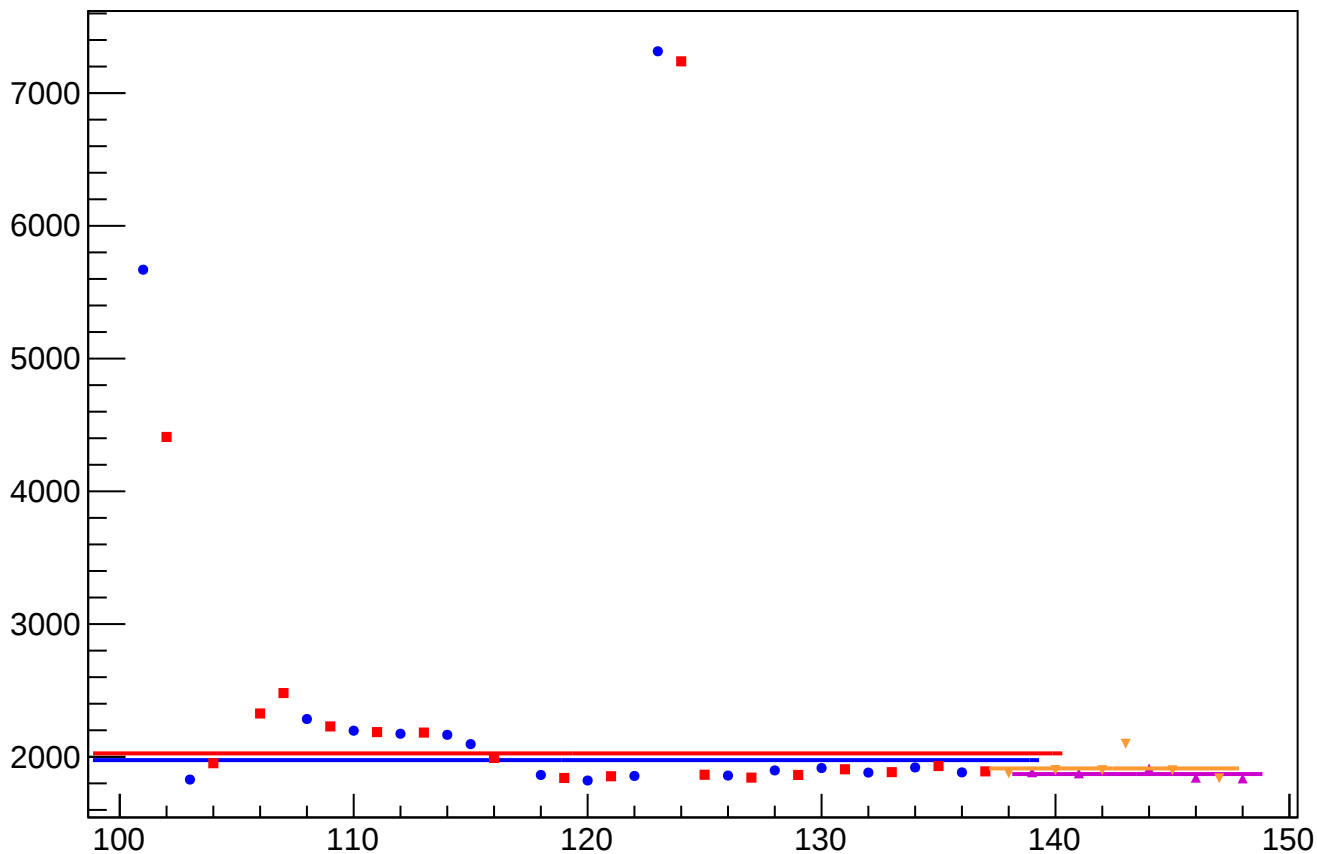
Left In: -2976.820 $\pm$ 924.467  $\chi^2$ /NDF: 7.8/4

+ sign 2230.572 $\pm$ 597.925  $\chi^2$ /NDF: 18.1/22

All: -28.375 $\pm$ 422.459  $\chi^2$ /NDF: 71.7/45

- sign -2280.124 $\pm$ 596.972  $\chi^2$ /NDF: 25.0/22

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



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

Left Out: 1912.605+/-0.656  $\chi^2/\text{NDF}$ : 15286.8/5

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

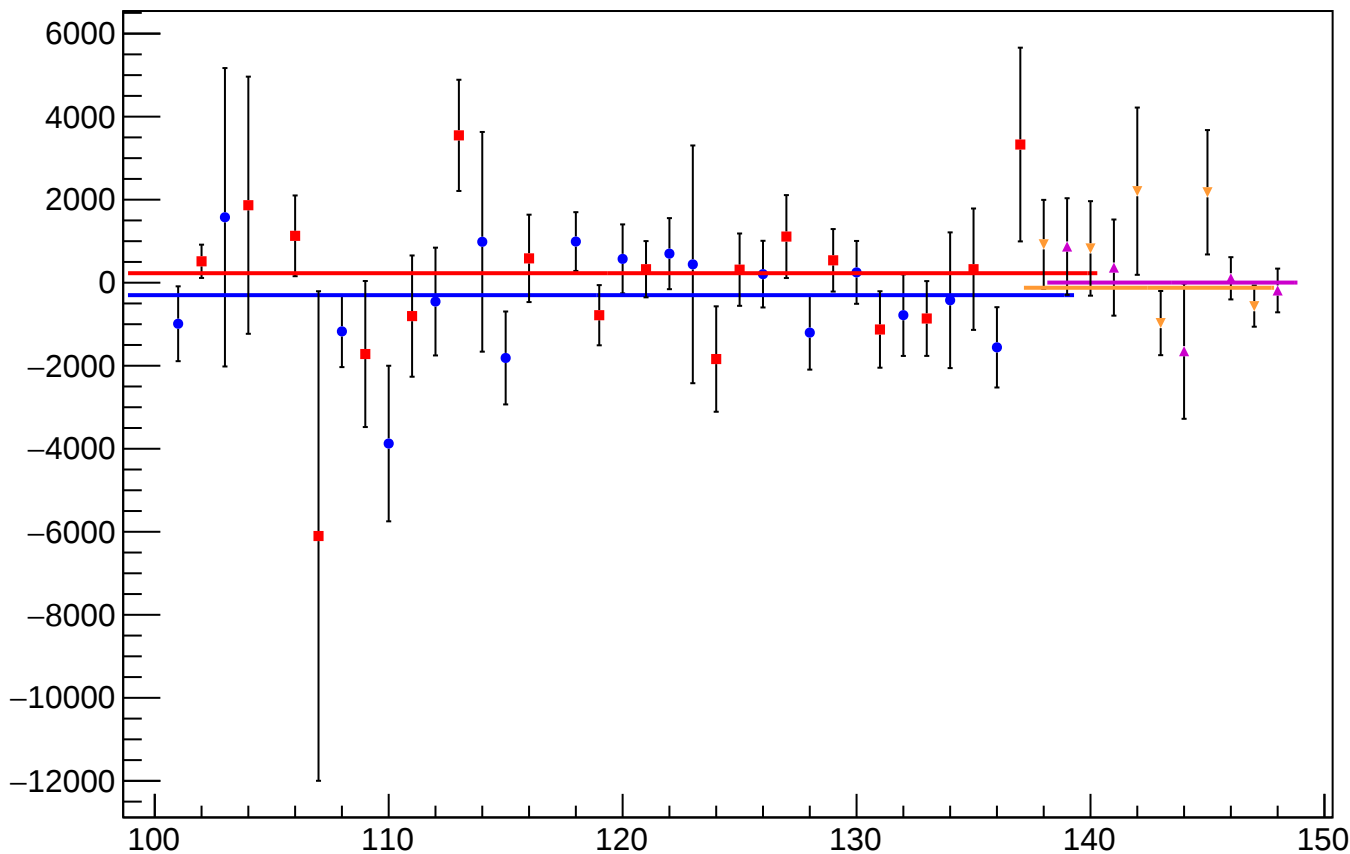
Left In: 1870.173+/-0.654  $\chi^2/\text{NDF}$ : 1751.1/4

+ sign 1949.183+/-0.423  $\chi^2/\text{NDF}$ : 620423.6/22

All: 1955.074+/-0.299  $\chi^2/\text{NDF}$ : 1191021.7/45

- sign 1960.947+/-0.422  $\chi^2/\text{NDF}$ : 570210.4/22

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



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

Left Out:  $-122.055 \pm 351.203$   $\chi^2/\text{NDF}: 7.4/5$

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

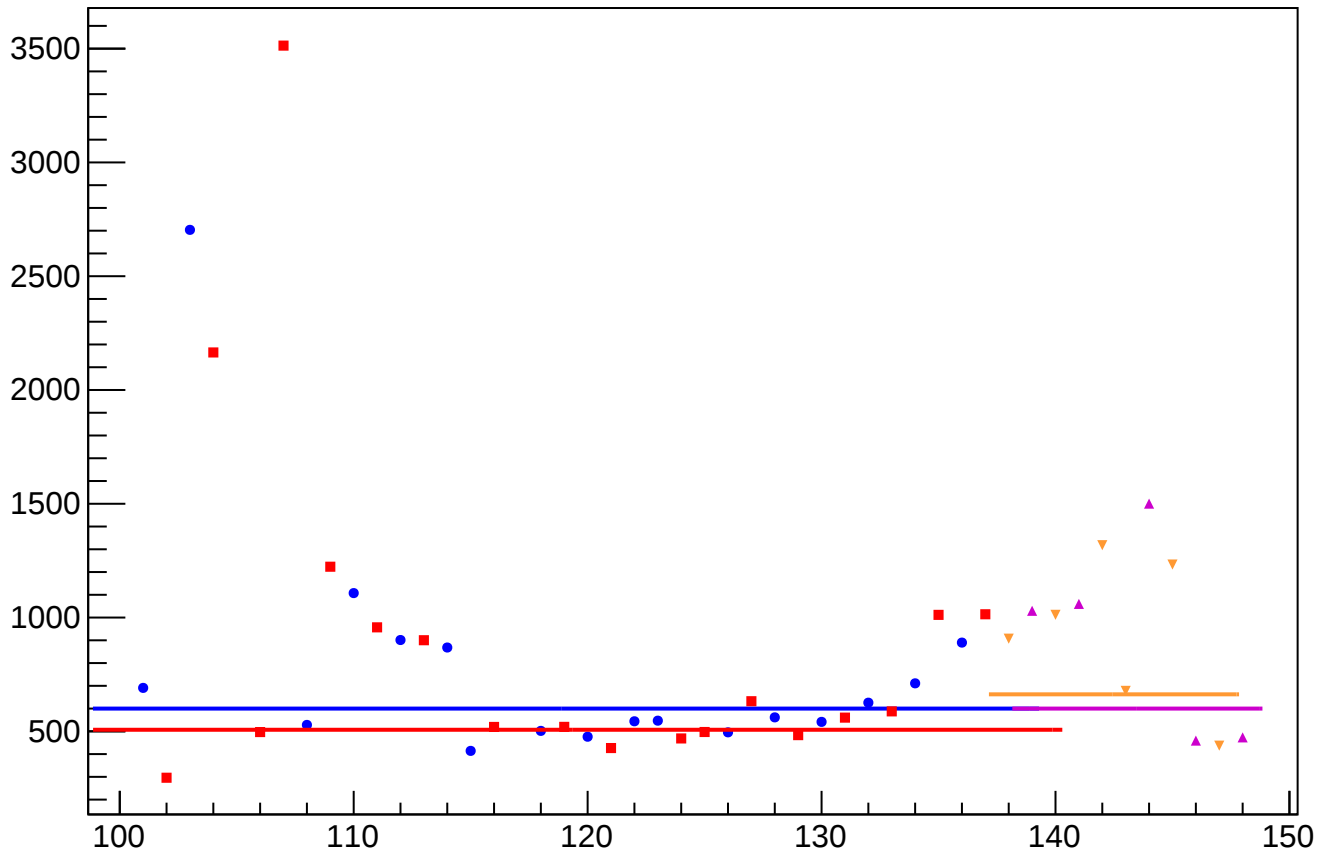
Left In:  $3.040 \pm 327.359$   $\chi^2/\text{NDF}: 1.9/4$

+ sign  $-241.227 \pm 201.826$   $\chi^2/\text{NDF}: 24.9/22$

All:  $-17.562 \pm 134.365$   $\chi^2/\text{NDF}: 51.0/45$

- sign  $160.485 \pm 180.071$   $\chi^2/\text{NDF}: 24.0/22$

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



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

Left Out:  $662.616 \pm 0.248$   $\chi^2/\text{NDF}$ : 1211945.7/5

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

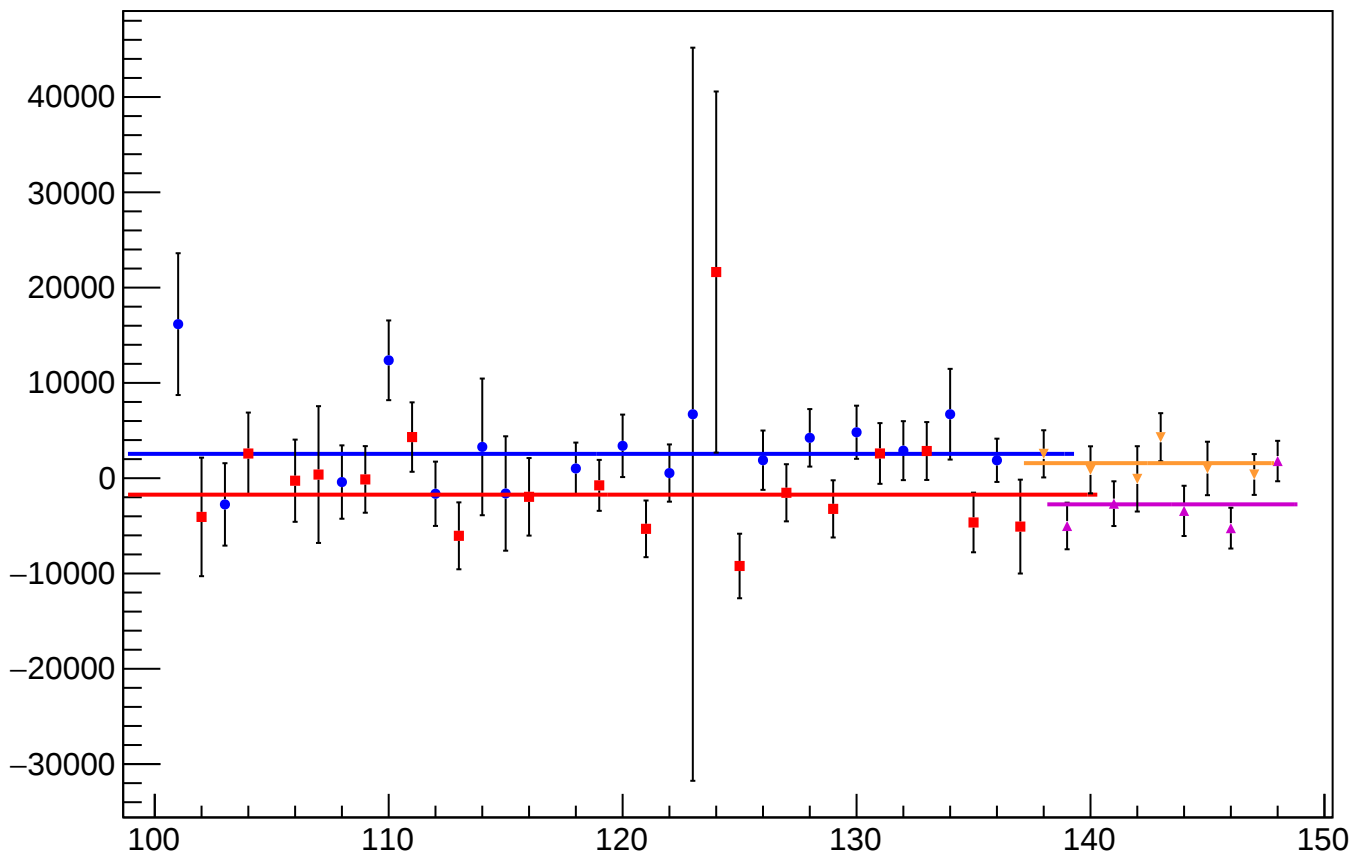
Left In:  $599.973 \pm 0.231$   $\chi^2/\text{NDF}$ : 1468293.9/4

+ sign  $620.647 \pm 0.143$   $\chi^2/\text{NDF}$ : 2635638.4/22

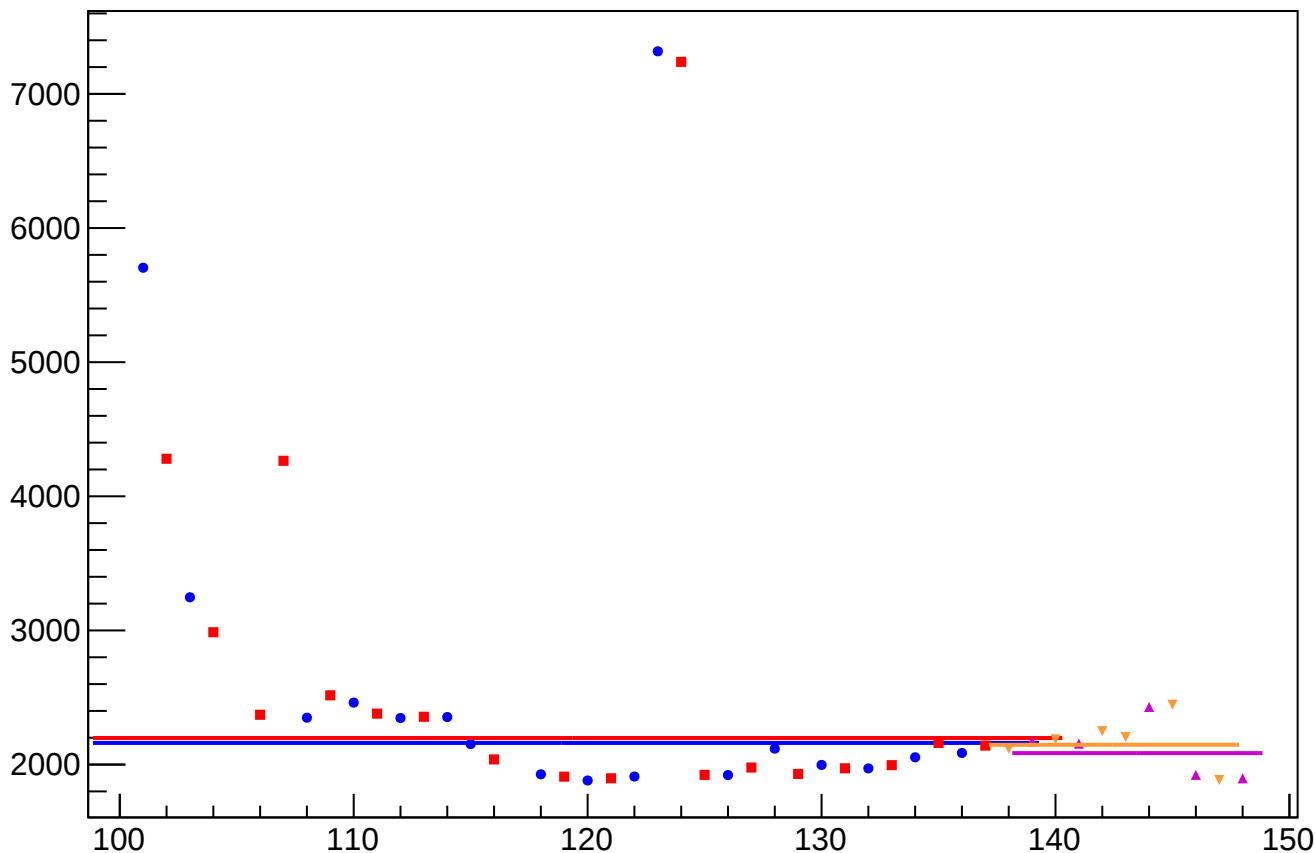
All:  $572.986 \pm 0.095$   $\chi^2/\text{NDF}$ : 7177931.0/45

- sign  $535.045 \pm 0.127$   $\chi^2/\text{NDF}$ : 4341969.0/22

# asym\_at1\_avg\_mean vs Slug



# asym\_at1\_avg\_rms vs Slug



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

Left Out: 2147.518+/-0.740  $\chi^2/\text{NDF}$ : 56337.2/5

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

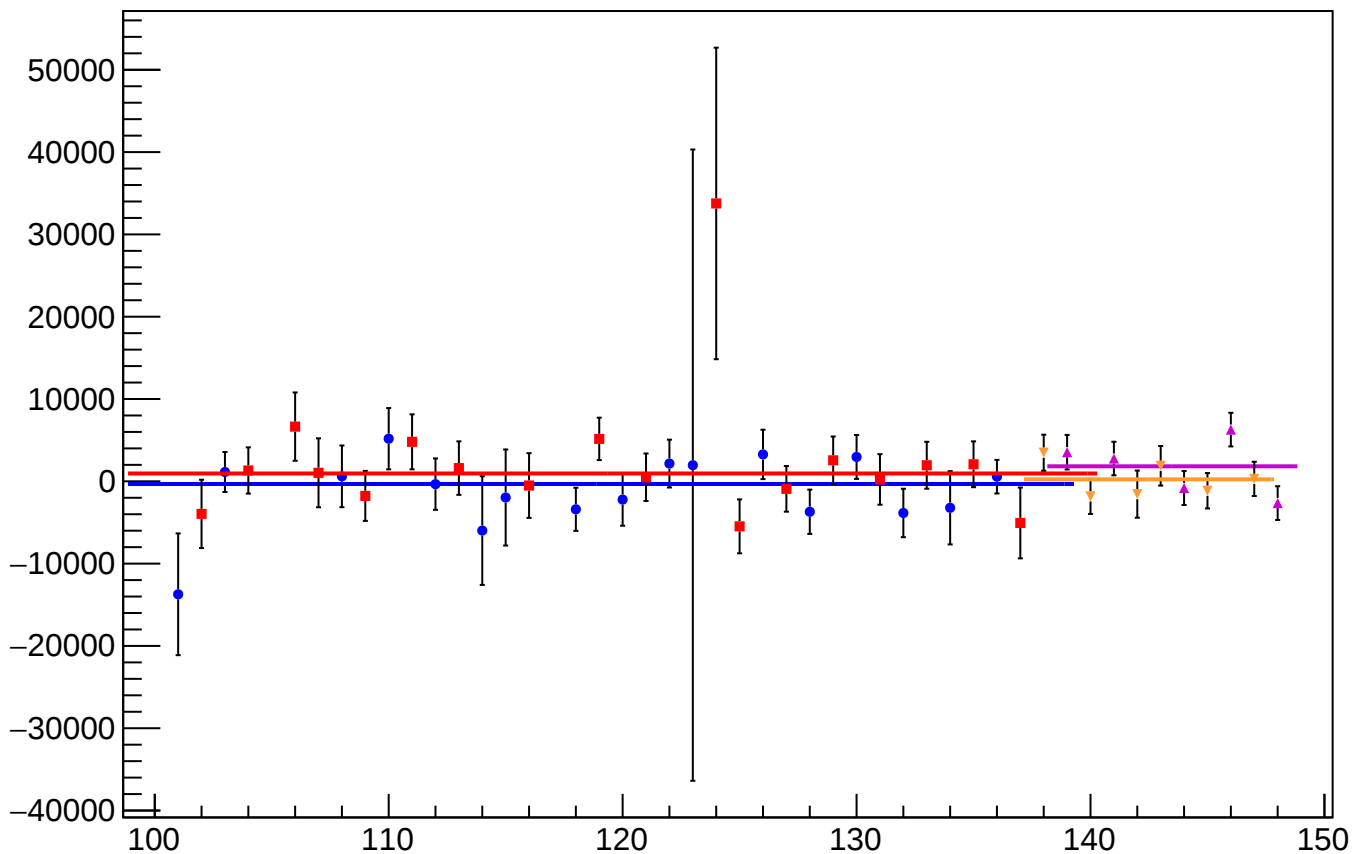
Left In: 2085.389+/-0.732  $\chi^2/\text{NDF}$ : 65595.5/4

+ sign 2155.820+/-0.469  $\chi^2/\text{NDF}$ : 767801.5/22

All: 2154.118+/-0.331  $\chi^2/\text{NDF}$ : 1581409.6/45

- sign 2152.438+/-0.466  $\chi^2/\text{NDF}$ : 813582.0/22

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



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

Left Out:  $239.802 \pm 923.927$   $\chi^2/\text{NDF}$ : 4.4/5

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

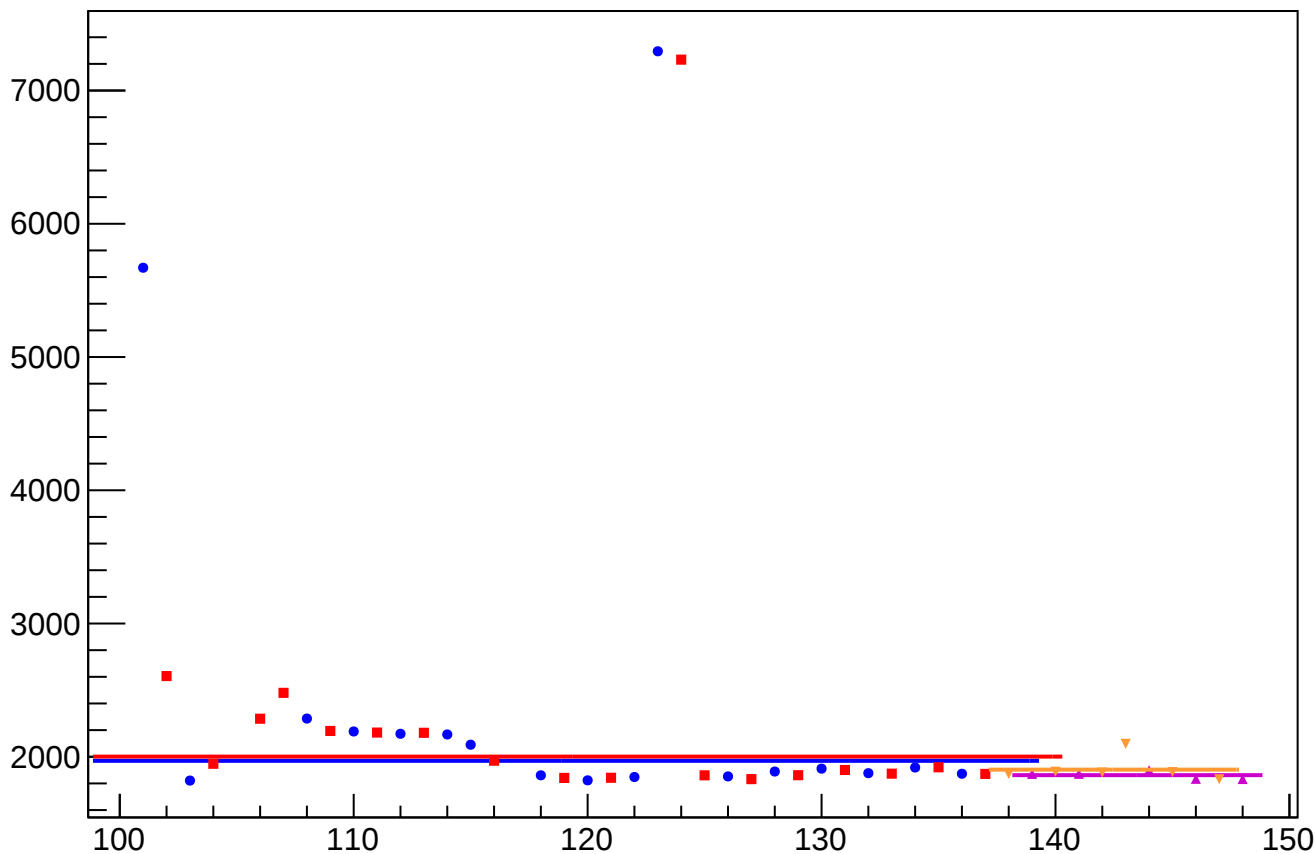
Left In:  $1823.455 \pm 920.390$   $\chi^2/\text{NDF}$ : 12.0/4

+ sign  $-89.404 \pm 595.789$   $\chi^2/\text{NDF}$ : 20.4/22

All:  $616.568 \pm 419.479$   $\chi^2/\text{NDF}$ : 53.9/45

- sign  $1310.550 \pm 590.708$   $\chi^2/\text{NDF}$ : 30.8/22

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



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

Left Out: 1903.347+/-0.653  $\chi^2/\text{NDF}$ : 16190.2/5

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

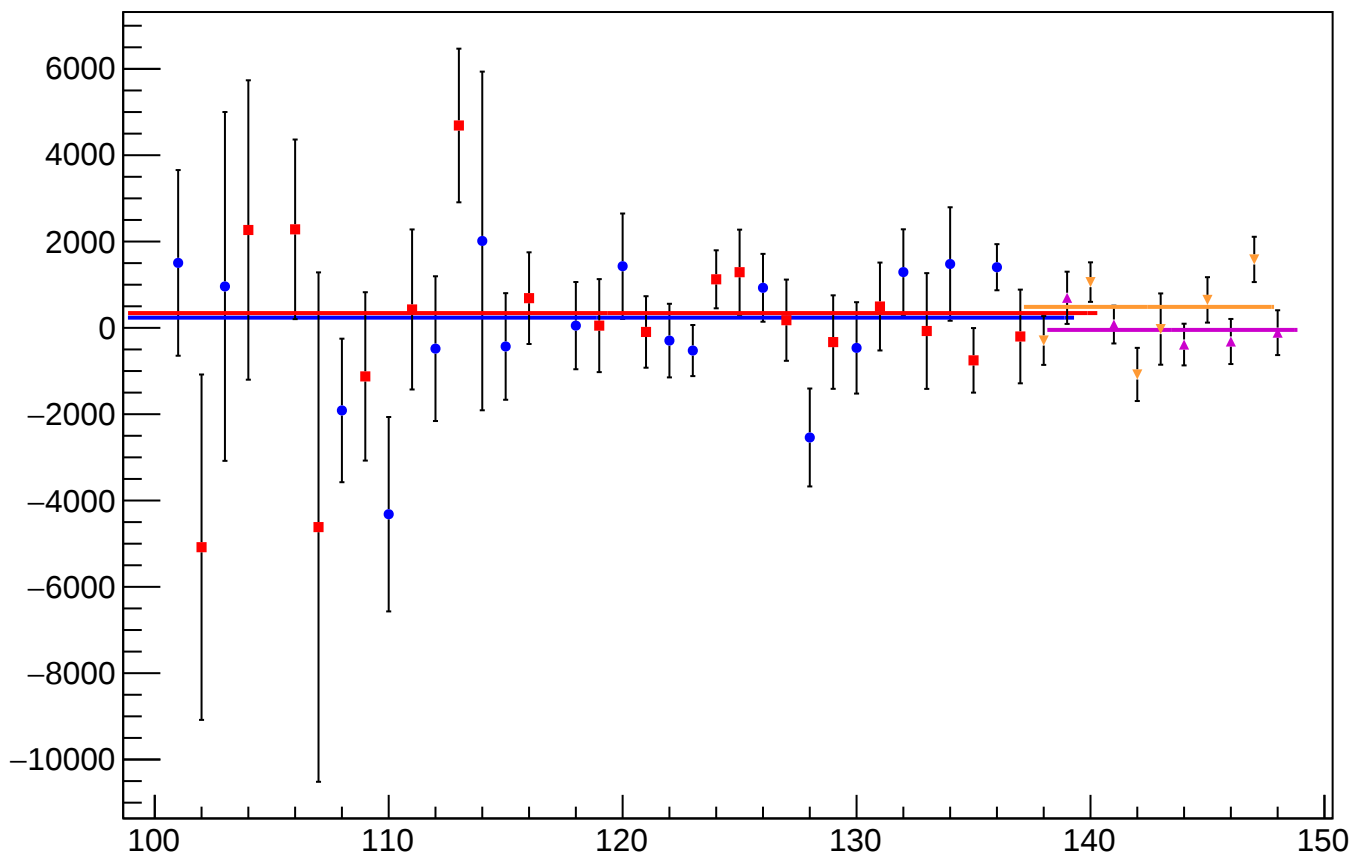
Left In: 1862.053+/-0.651  $\chi^2/\text{NDF}$ : 1493.8/4

+ sign 1941.989+/-0.421  $\chi^2/\text{NDF}$ : 624989.3/22

All: 1942.938+/-0.297  $\chi^2/\text{NDF}$ : 943992.1/45

- sign 1943.871+/-0.418  $\chi^2/\text{NDF}$ : 318992.8/22

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



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

Left Out: 486.007 $\pm$ 227.946  $\chi^2$ /NDF:14.8/5

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

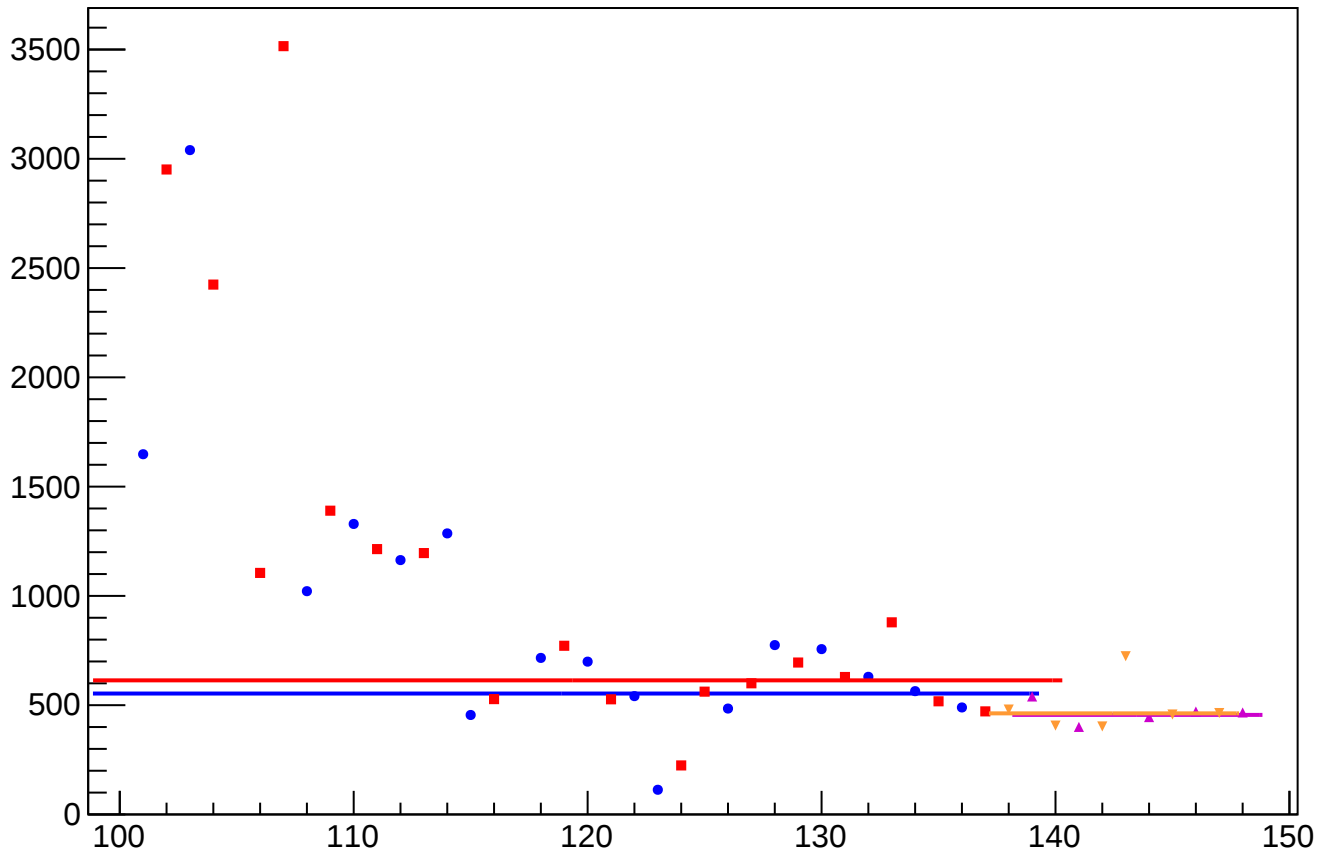
Left In: -47.232 $\pm$ 225.812  $\chi^2$ /NDF:2.4/4

+ sign 372.216 $\pm$ 168.011  $\chi^2$ /NDF: 39.2/22

All: 246.908 $\pm$ 120.473  $\chi^2$ /NDF: 59.9/45

- sign 114.293 $\pm$ 172.840  $\chi^2$ /NDF: 19.5/22

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



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

Left Out: 462.558+/-0.161  $\chi^2/\text{NDF}$ : 251311.9/5

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

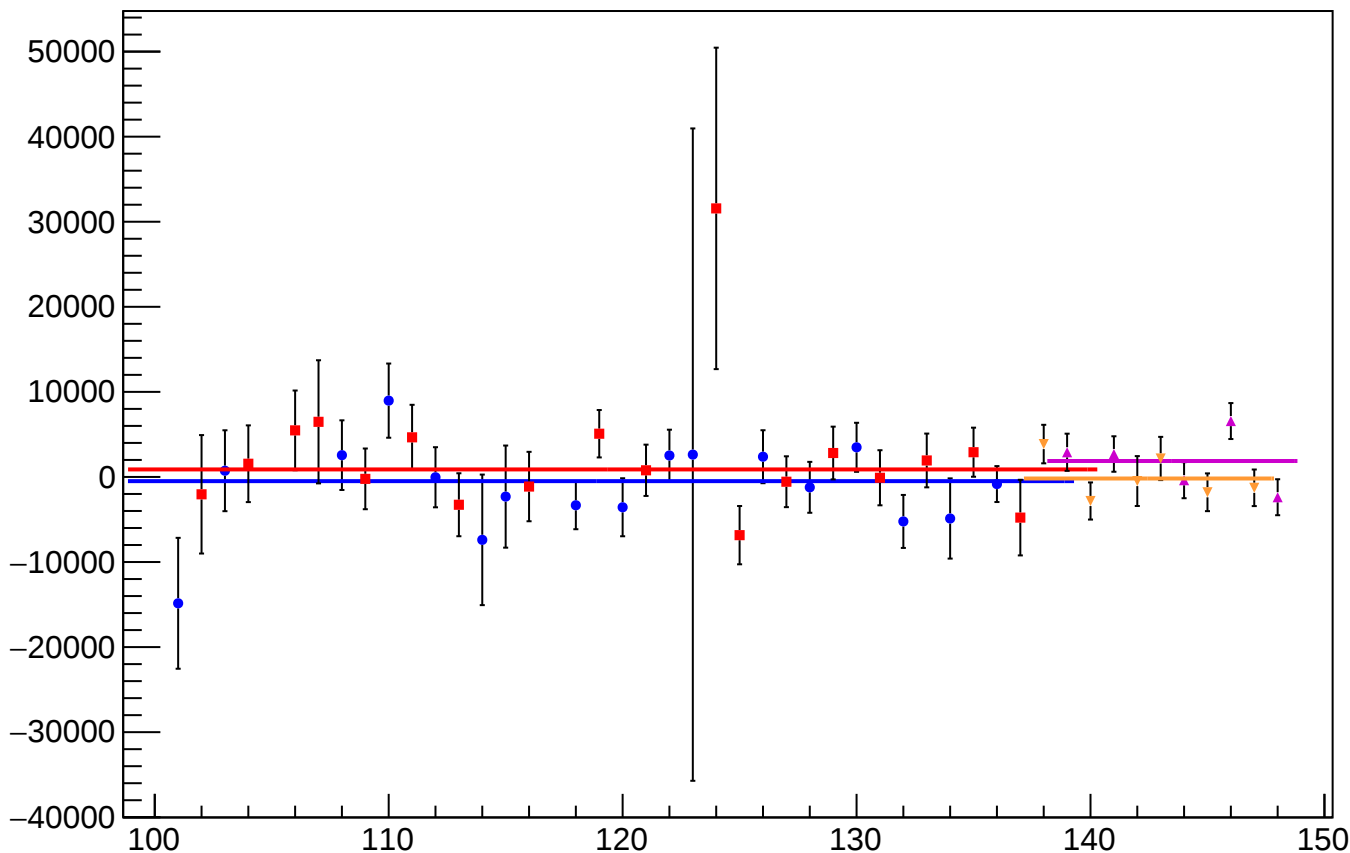
Left In: 455.512+/-0.160  $\chi^2/\text{NDF}$ : 73843.1/4

+ sign 503.994+/-0.119  $\chi^2/\text{NDF}$ : 3808753.9/22

All: 512.243+/-0.085  $\chi^2/\text{NDF}$ : 7774729.8/45

- sign 520.973+/-0.122  $\chi^2/\text{NDF}$ : 3956052.3/22

# asym\_at1\_dd\_mean vs Slug



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

Left Out: -183.083 $\pm$ 955.212  $\chi^2$ /NDF:6.3/5

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

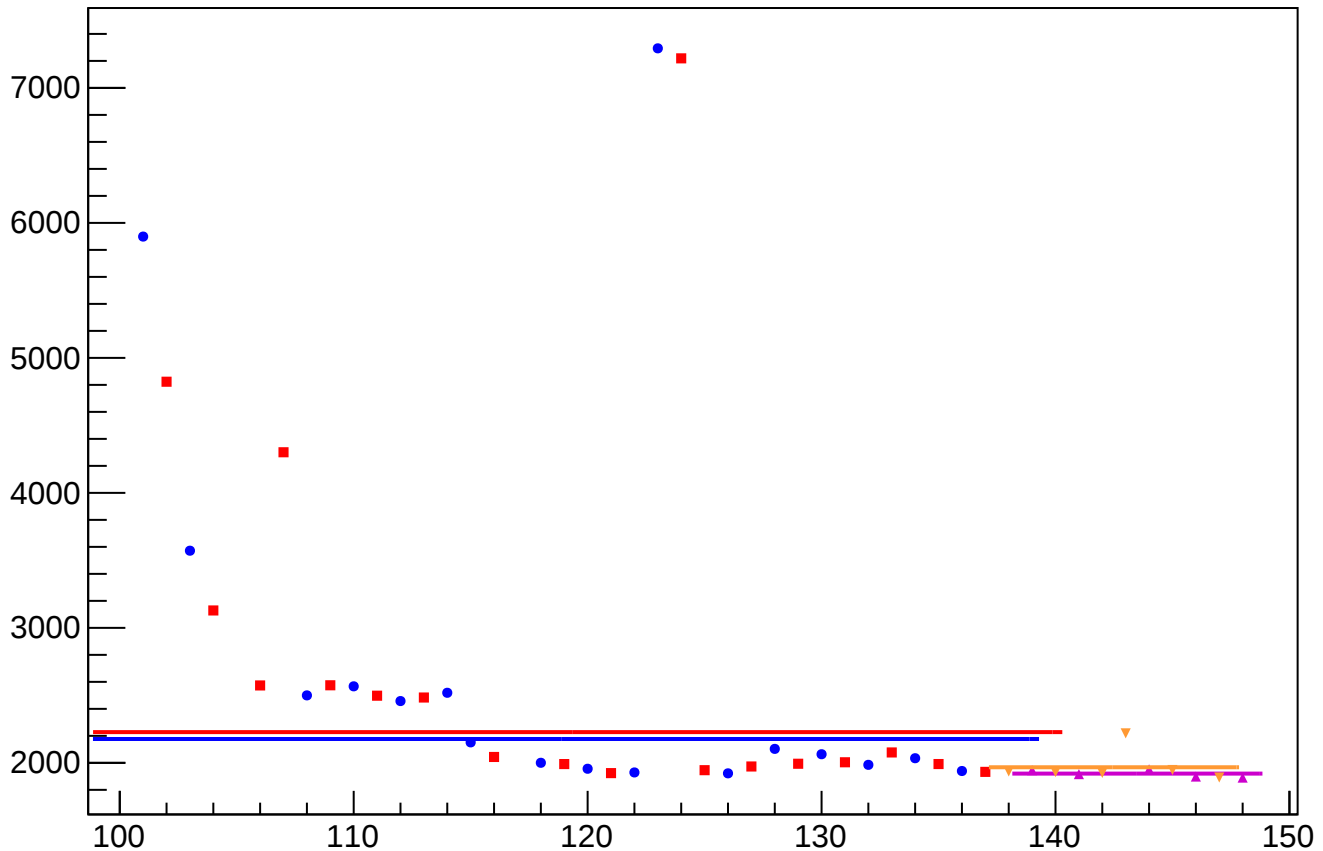
Left In: 1874.417 $\pm$ 949.078  $\chi^2$ /NDF:10.5/4

+ sign -352.254 $\pm$ 642.389  $\chi^2$ /NDF: 25.0/22

All: 493.784 $\pm$ 453.737  $\chi^2$ /NDF: 56.8/45

- sign 1336.104 $\pm$ 640.976  $\chi^2$ /NDF: 28.4/22

# asym\_at1\_dd\_rms vs Slug



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

Left Out: 1967.290+/-0.675  $\chi^2/\text{NDF}$ : 23533.2/5

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

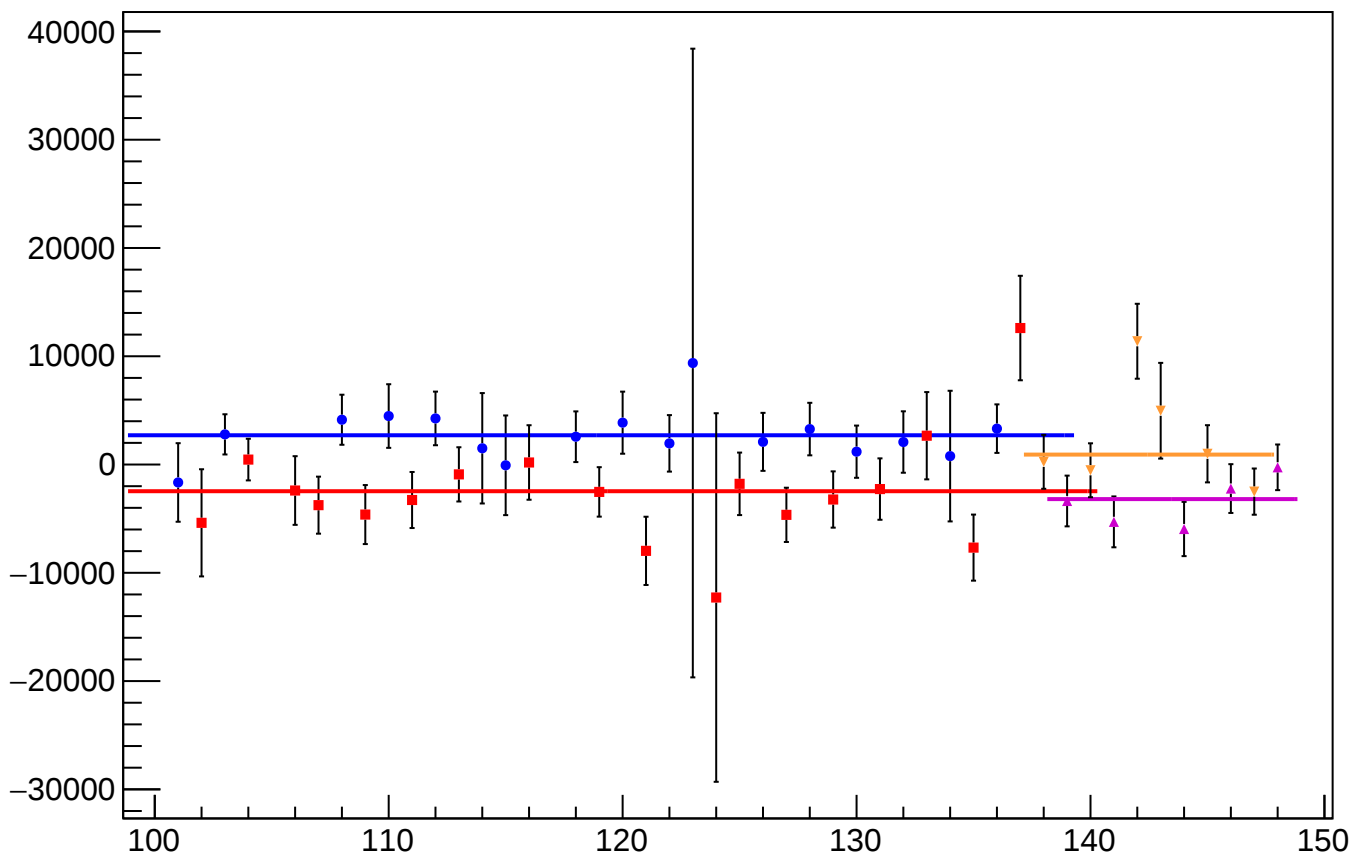
Left In: 1920.350+/-0.671  $\chi^2/\text{NDF}$ : 1335.2/4

+ sign 2082.016+/-0.454  $\chi^2/\text{NDF}$ : 878883.6/22

All: 2084.767+/-0.321  $\chi^2/\text{NDF}$ : 1820025.1/45

- sign 2087.506+/-0.453  $\chi^2/\text{NDF}$ : 941068.4/22

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



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

Left Out: 918.117+/-1104.191  $\chi^2/\text{NDF}$ :13.0/5

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

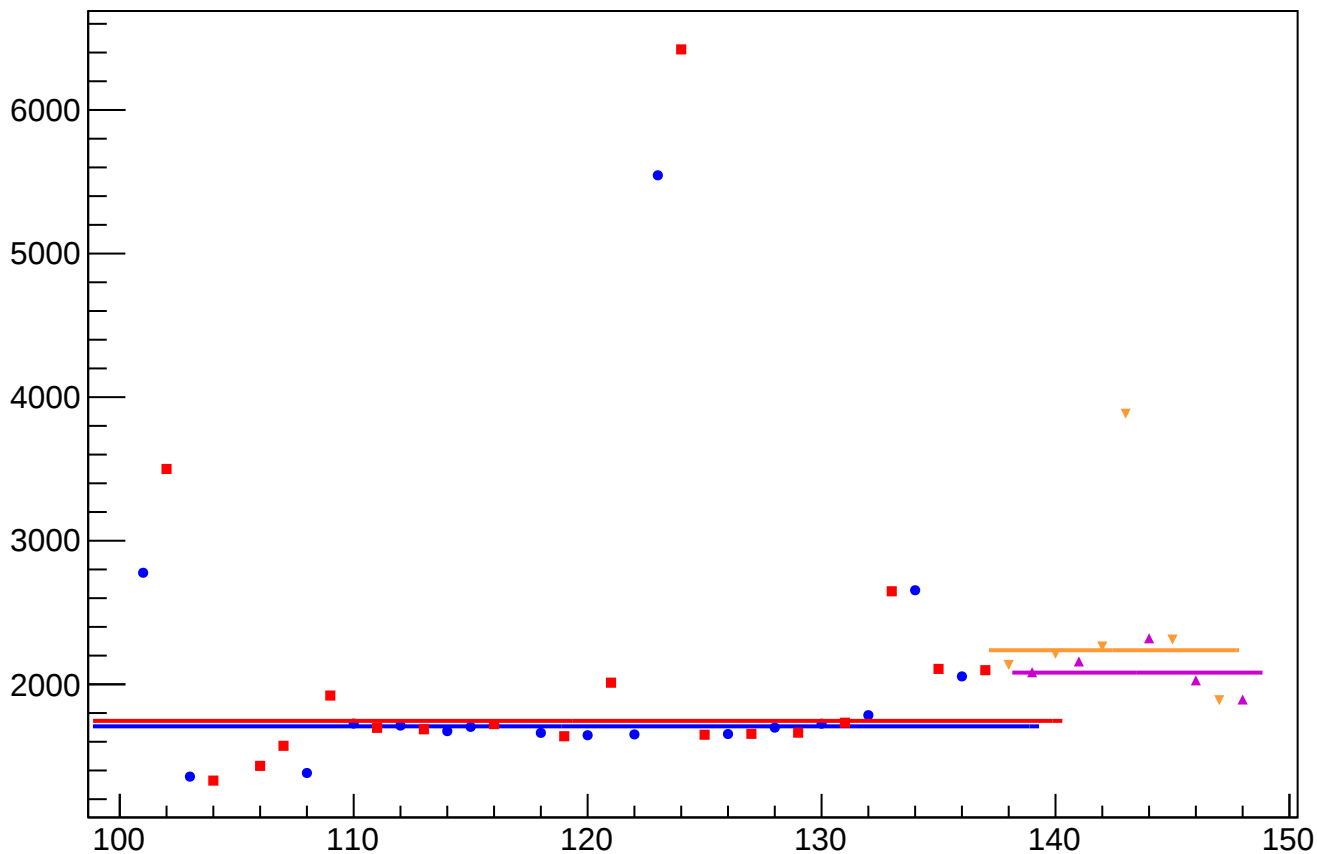
Left In: -3192.785+/-1028.864  $\chi^2/\text{NDF}$ :4.1/4

+ sign 2218.969+/-575.230  $\chi^2/\text{NDF}$ : 18.9/22

All: -260.130+/-404.597  $\chi^2/\text{NDF}$ : 83.4/45

- sign -2687.454+/-569.192  $\chi^2/\text{NDF}$ : 27.7/22

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



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

Left Out: 2237.406+/-0.781  $\chi^2/\text{NDF}$ : 336140.5/5

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

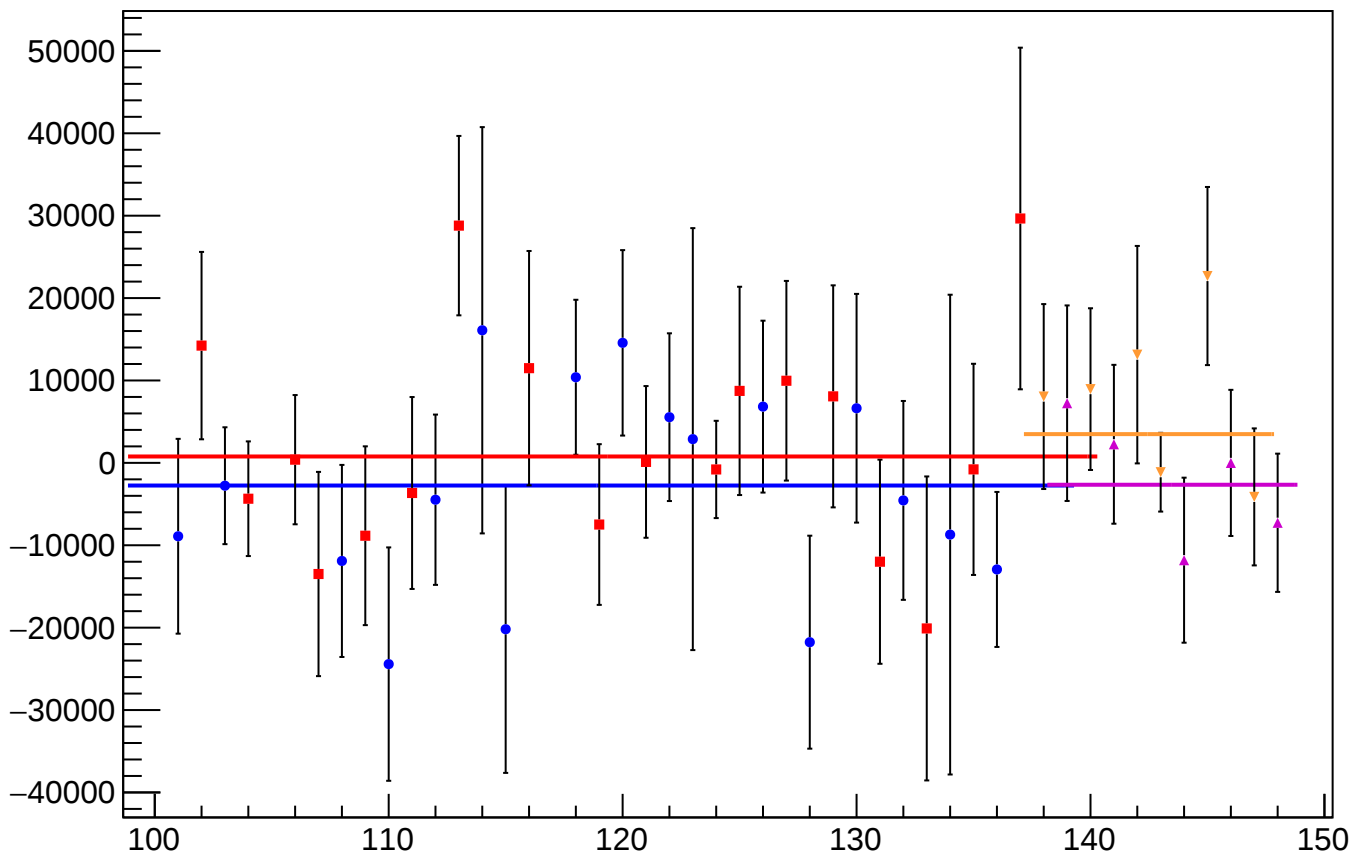
Left In: 2081.526+/-0.728  $\chi^2/\text{NDF}$ : 37301.2/4

+ sign 1851.228+/-0.407  $\chi^2/\text{NDF}$ : 1094061.1/22

All: 1849.768+/-0.286  $\chi^2/\text{NDF}$ : 1978650.3/45

- sign 1848.339+/-0.402  $\chi^2/\text{NDF}$ : 884563.7/22

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



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

Left Out: 3488.834+/-3317.581  $\chi^2/\text{NDF}$ : 5.9/5

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

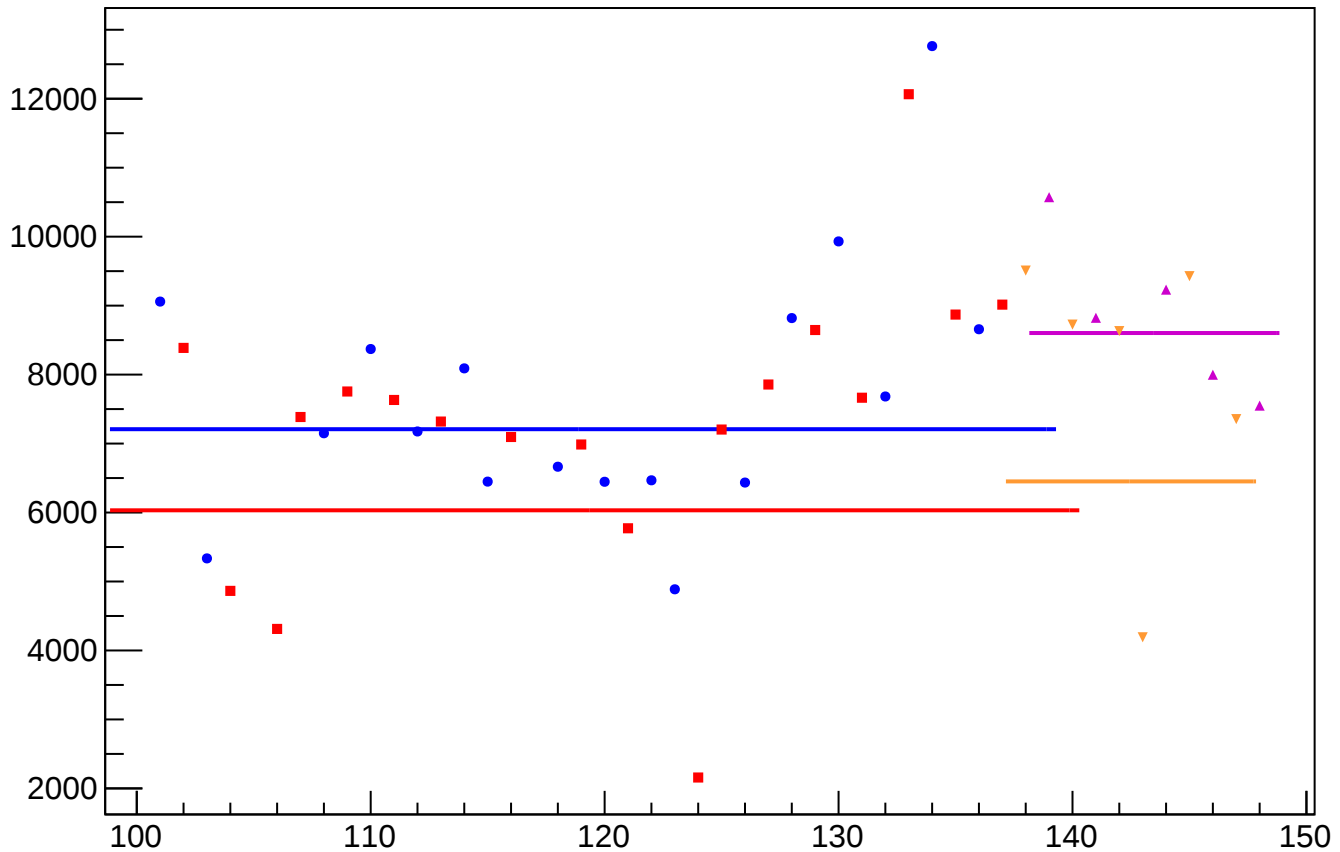
Left In: -2656.346+/-4273.560  $\chi^2/\text{NDF}$ : 2.2/4

+ sign -109.419+/-2158.510  $\chi^2/\text{NDF}$ : 22.5/22

All: -88.865+/-1512.303  $\chi^2/\text{NDF}$ : 43.0/45

- sign -69.049+/-2119.464  $\chi^2/\text{NDF}$ : 20.4/22

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



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

Left Out: 6451.320+/-2.346  $\chi^2/\text{NDF}$ : 932686.3/5

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

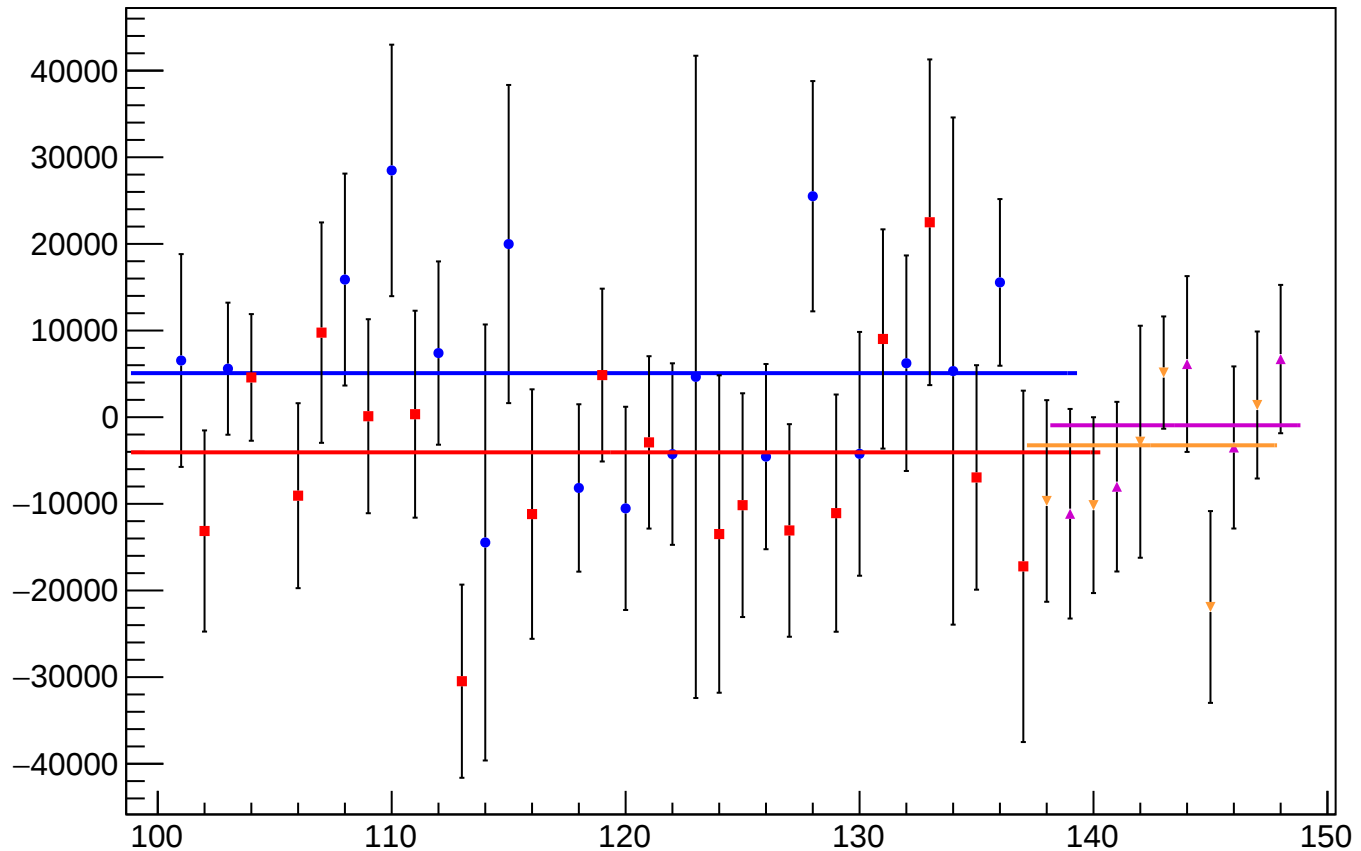
Left In: 8602.832+/-3.022  $\chi^2/\text{NDF}$ : 104832.3/4

+ sign 6887.885+/-1.526  $\chi^2/\text{NDF}$ : 1486490.7/22

All: 6774.143+/-1.069  $\chi^2/\text{NDF}$ : 3945456.6/45

- sign 6664.478+/-1.499  $\chi^2/\text{NDF}$ : 2448058.1/22

# asym\_at2\_avg\_mean vs Slug



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

Left Out: -3243.716+/-3819.213  $\chi^2/\text{NDF}$ : 5.6/5

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

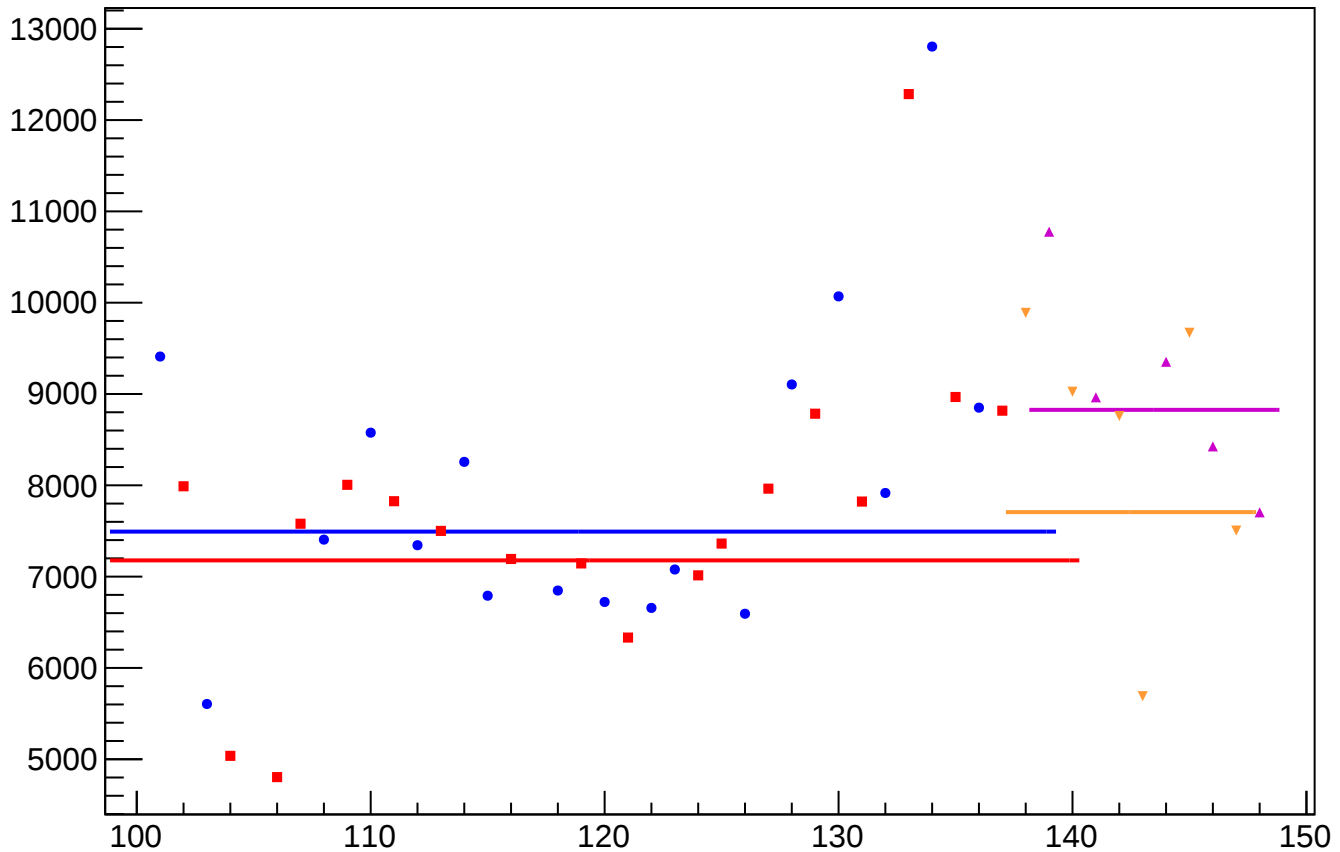
Left In: -932.998+/-4382.879  $\chi^2/\text{NDF}$ : 2.6/4

+ sign 1965.597+/-2337.246  $\chi^2/\text{NDF}$ : 22.5/22

All: -568.067+/-1660.542  $\chi^2/\text{NDF}$ : 43.0/45

- sign -3150.510+/-2359.637  $\chi^2/\text{NDF}$ : 18.1/22

# asym\_at2\_avg\_rms vs Slug



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

Left Out:  $7706.335 \pm 2.701$   $\chi^2/\text{NDF}$ : 374209.4/5

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

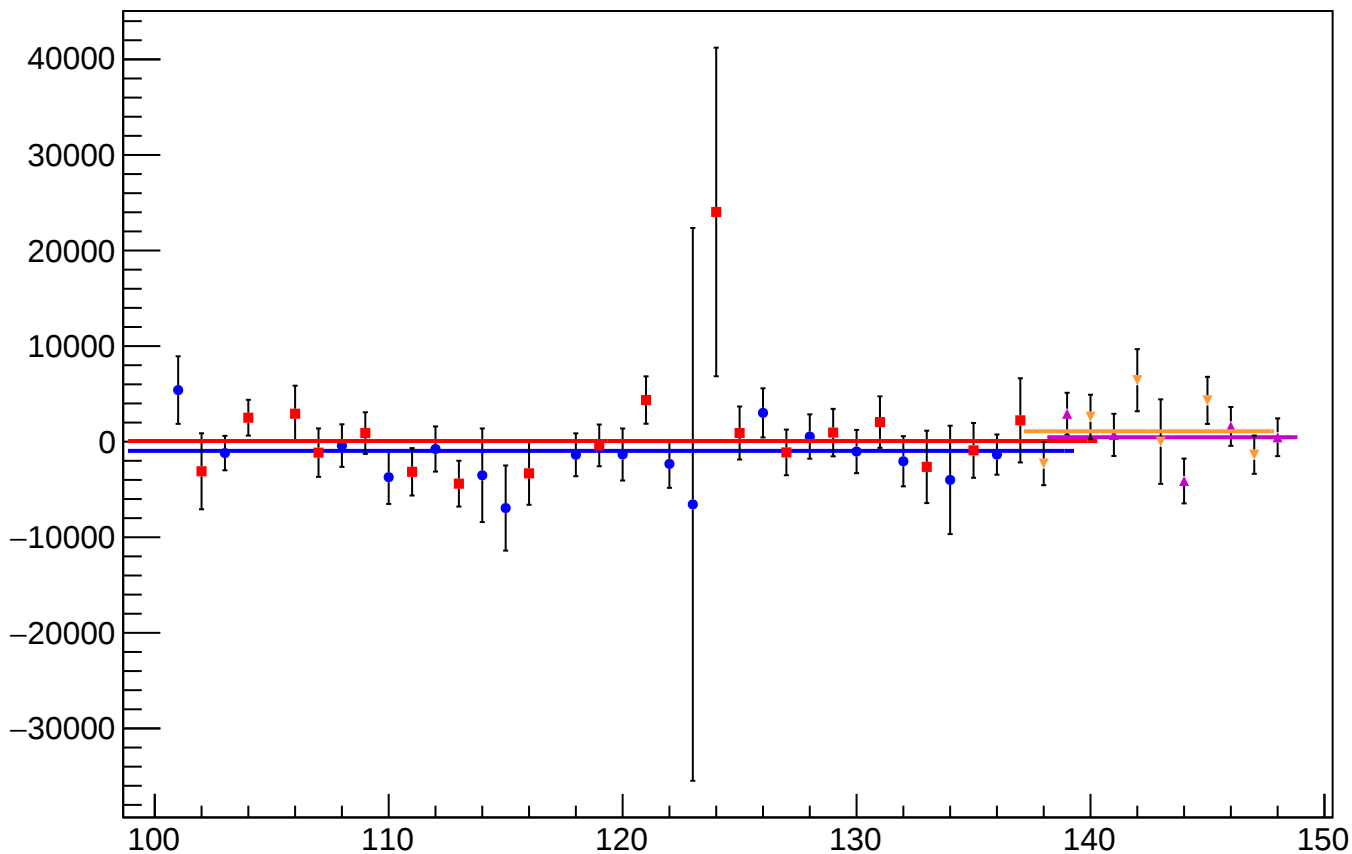
Left In:  $8826.470 \pm 3.099$   $\chi^2/\text{NDF}$ : 95858.5/4

+ sign  $7572.842 \pm 1.653$   $\chi^2/\text{NDF}$ : 815200.2/22

All:  $7613.822 \pm 1.174$   $\chi^2/\text{NDF}$ : 1669183.8/45

- sign  $7655.585 \pm 1.668$   $\chi^2/\text{NDF}$ : 852742.1/22

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



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

Left Out:  $1089.970 \pm 1029.262$   $\chi^2/\text{NDF}$ : 8.6/5

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

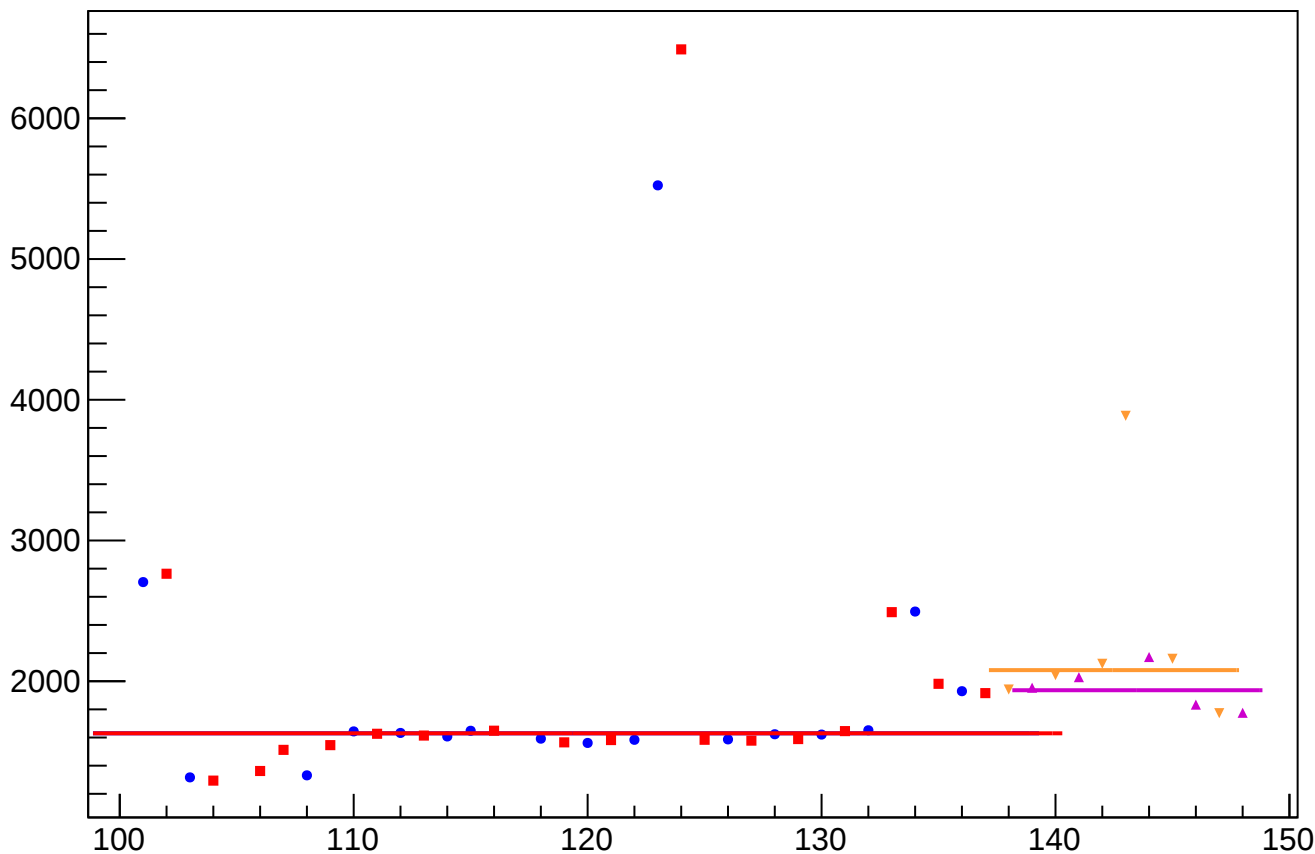
Left In:  $465.329 \pm 956.743$   $\chi^2/\text{NDF}$ : 5.4/4

+ sign  $-386.333 \pm 545.347$   $\chi^2/\text{NDF}$ : 21.6/22

All:  $-88.403 \pm 379.611$   $\chi^2/\text{NDF}$ : 44.4/45

- sign  $191.659 \pm 528.740$   $\chi^2/\text{NDF}$ : 22.2/22

dit\_asym\_at2\_dd\_rms vs Slug



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

Left Out: 2078.903 $\pm$ 0.728  $\chi^2$ /NDF: 391074.3/5

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

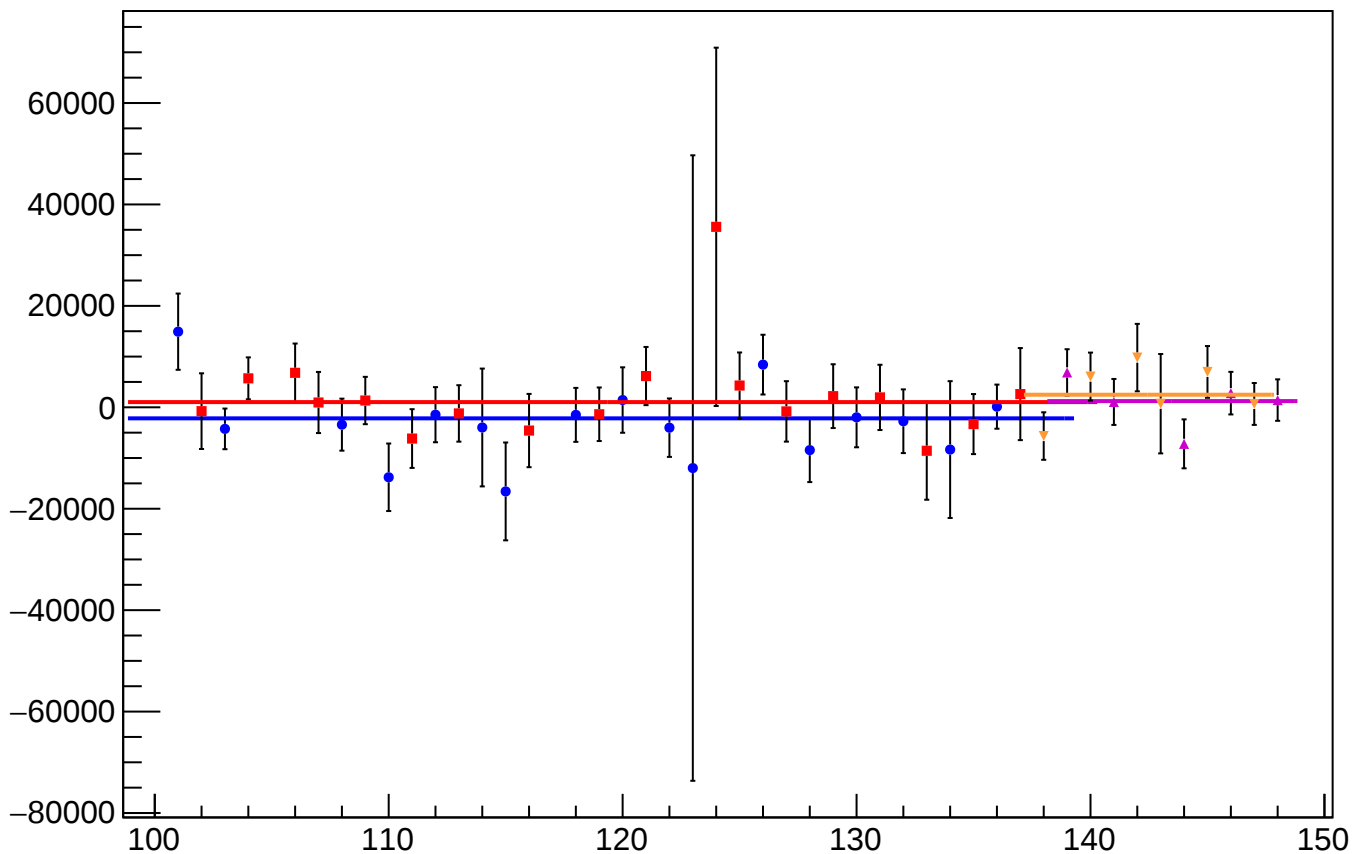
Left In: 1936.022 $\pm$ 0.677  $\chi^2$ /NDF: 42151.7/4

+ sign 1755.989 $\pm$ 0.386  $\chi^2$ /NDF: 1072918.6/22

All: 1739.203 $\pm$ 0.268  $\chi^2$ /NDF: 1818382.8/45

- sign 1723.424 $\pm$ 0.374  $\chi^2$ /NDF: 741788.1/22

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



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

Left Out:  $2483.266 \pm 2130.443$   $\chi^2/\text{NDF}$ : 5.8/5

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

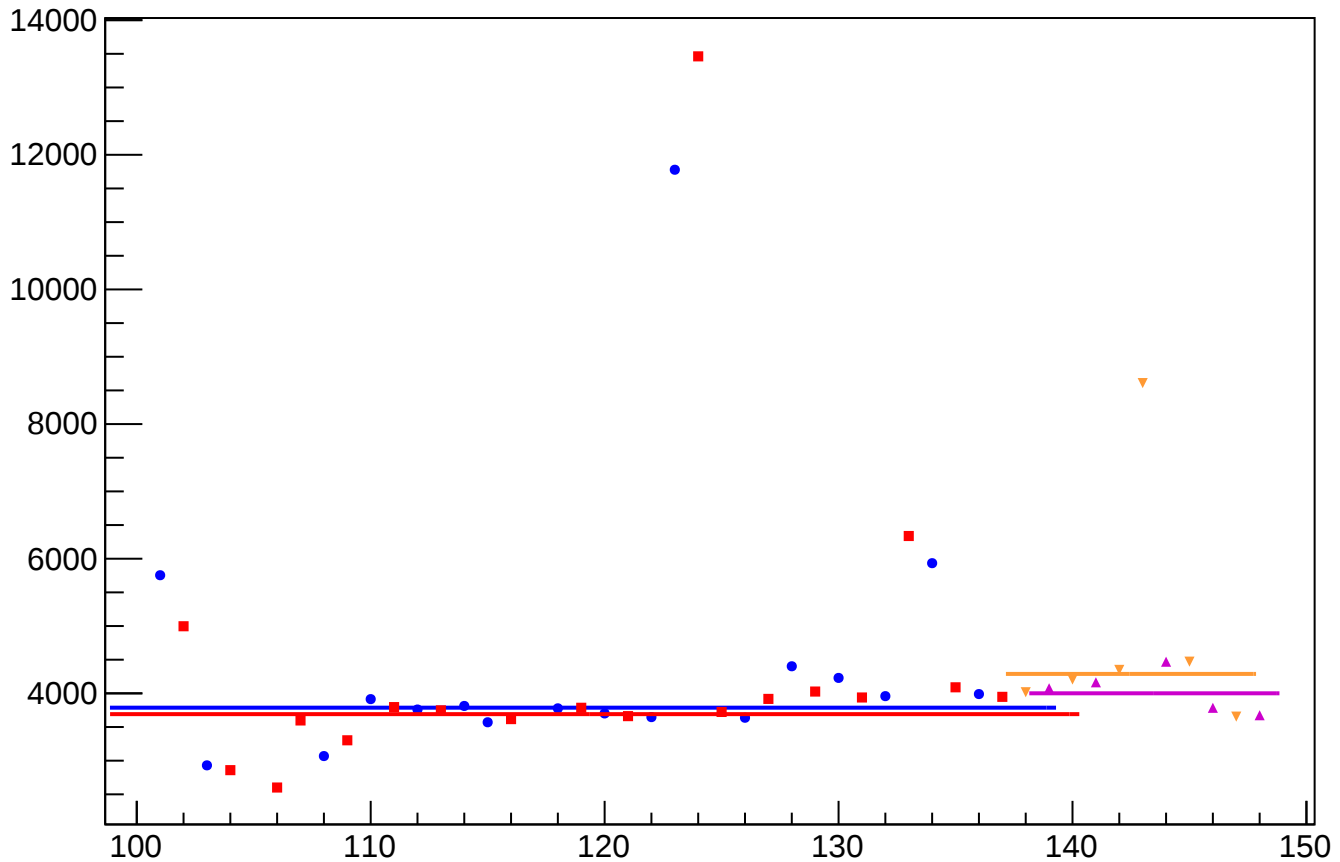
Left In:  $1224.854 \pm 1976.810$   $\chi^2/\text{NDF}$ : 4.7/4

+ sign  $-643.568 \pm 1222.671$   $\chi^2/\text{NDF}$ : 25.0/22

All:  $267.949 \pm 843.491$   $\chi^2/\text{NDF}$ : 39.4/45

- sign  $1095.731 \pm 1165.160$   $\chi^2/\text{NDF}$ : 13.3/22

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



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

Left Out: 4288.726+/-1.506  $\chi^2/\text{NDF}$ : 446221.5/5

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

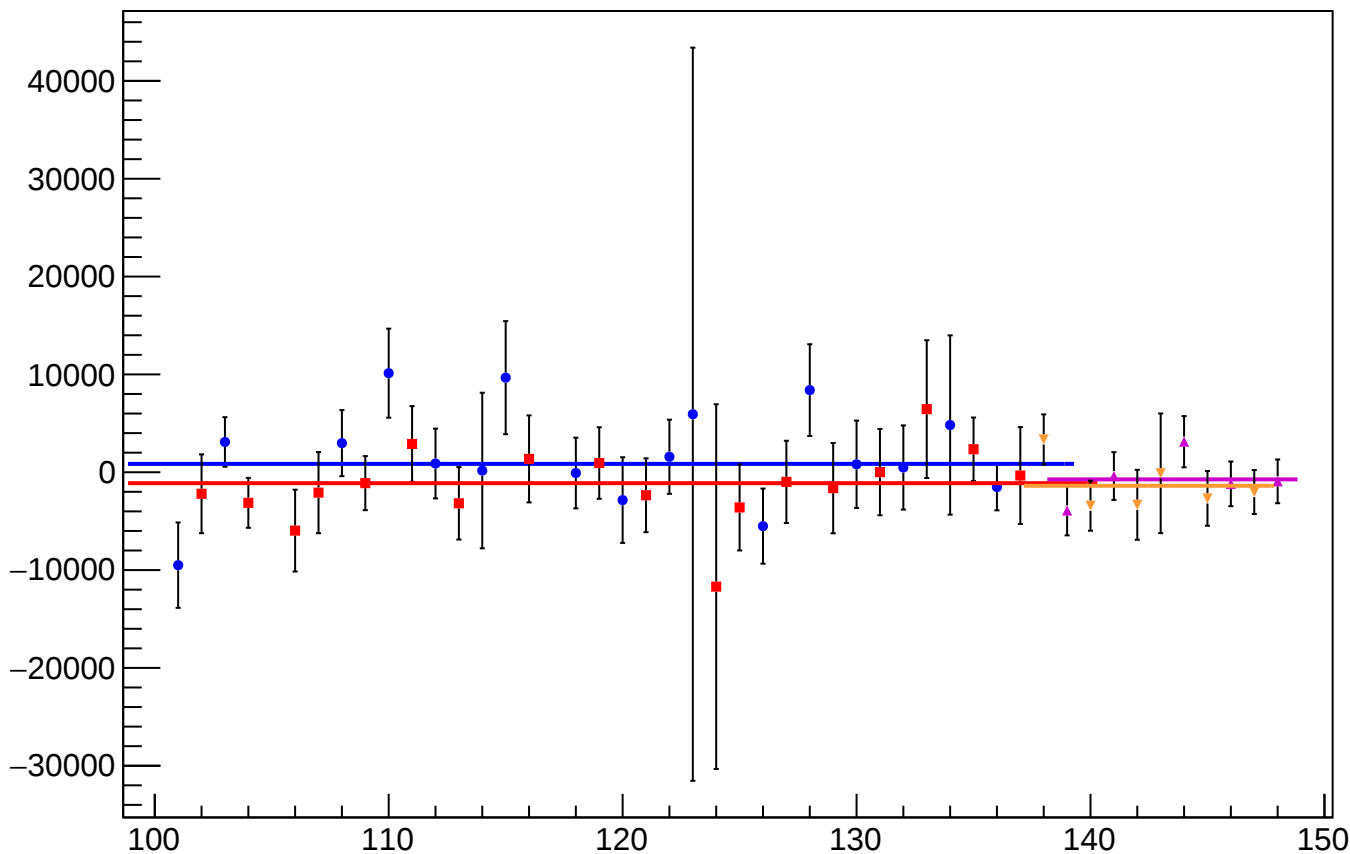
Left In: 4000.771+/-1.398  $\chi^2/\text{NDF}$ : 40010.1/4

+ sign 3952.454+/-0.865  $\chi^2/\text{NDF}$ : 913172.0/22

All: 3871.914+/-0.596  $\chi^2/\text{NDF}$ : 1556897.8/45

- sign 3798.774+/-0.824  $\chi^2/\text{NDF}$ : 627166.6/22

# asym\_at2\_dd\_mean vs Slug



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

Left Out: -1382.173+/-1165.057  $\chi^2/\text{NDF}$ : 4.7/5

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

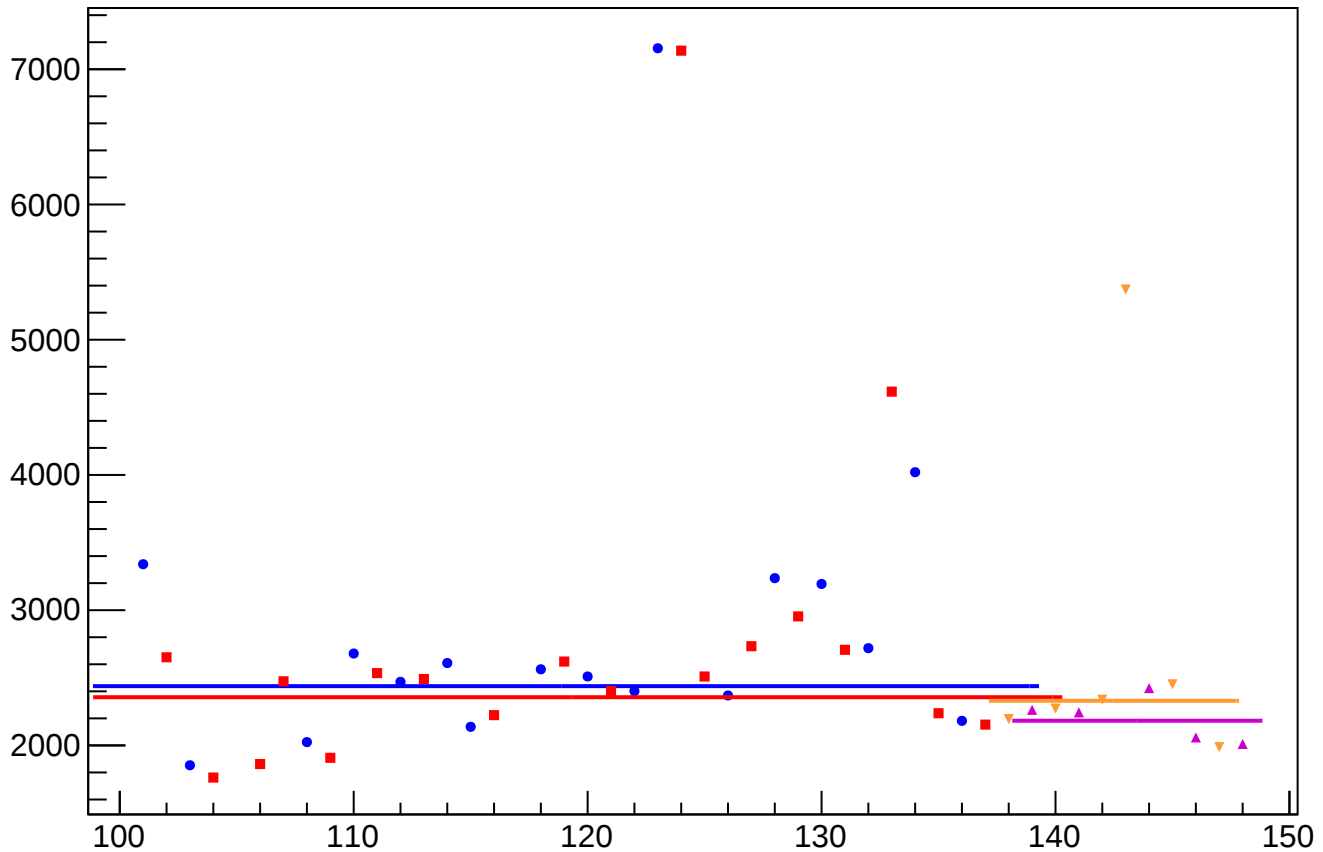
Left In: -729.035+/-1078.385  $\chi^2/\text{NDF}$ : 3.8/4

+ sign -54.315+/-743.058  $\chi^2/\text{NDF}$ : 27.5/22

All: -528.190+/-510.691  $\chi^2/\text{NDF}$ : 39.4/45

- sign -952.417+/-703.055  $\chi^2/\text{NDF}$ : 11.1/22

# asym\_at2\_dd\_rms vs Slug



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

Left Out:  $2330.059 \pm 0.824$   $\chi^2/\text{NDF}$ : 551732.2/5

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

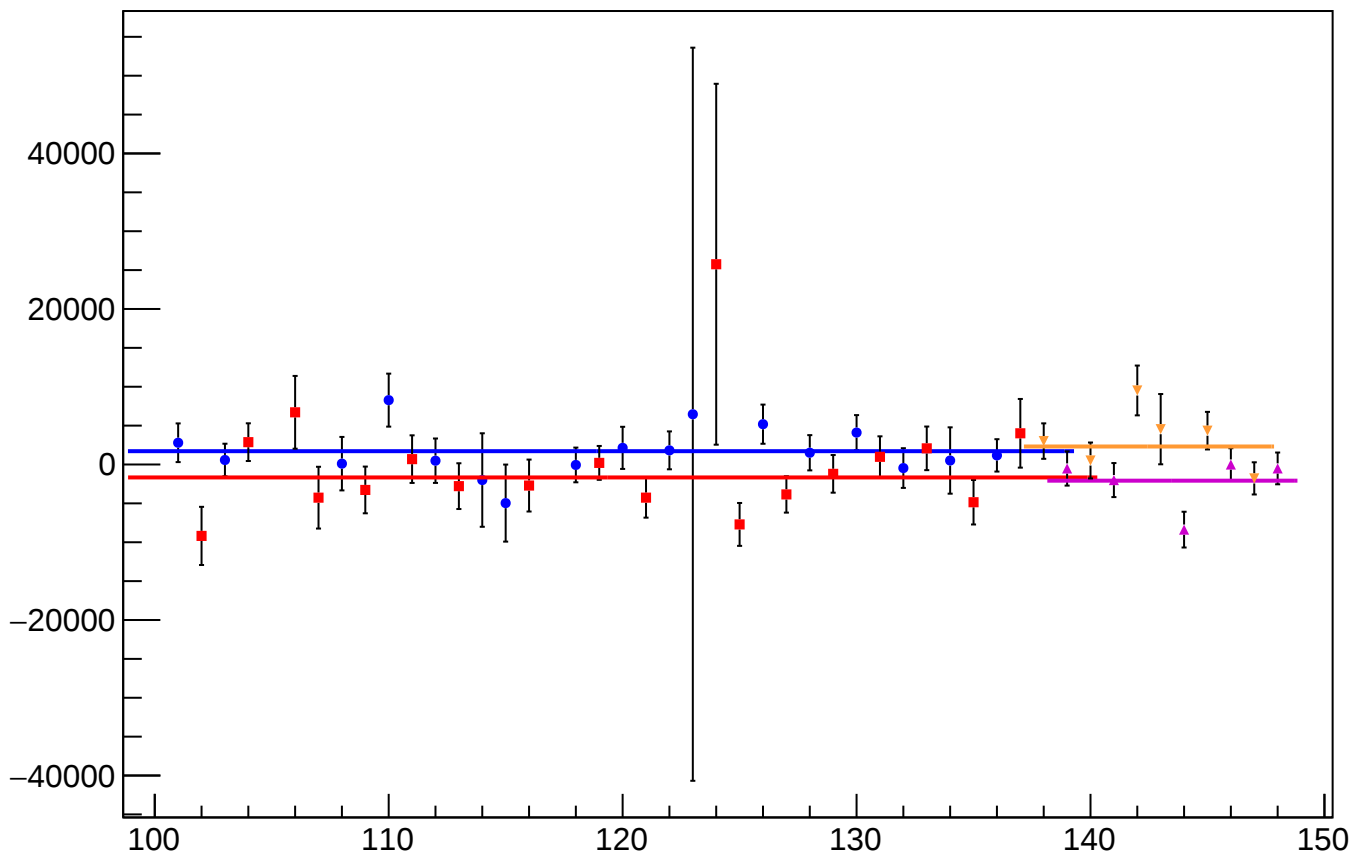
Left In:  $2182.664 \pm 0.763$   $\chi^2/\text{NDF}$ : 37959.3/4

+ sign  $2394.256 \pm 0.525$   $\chi^2/\text{NDF}$ : 1038691.8/22

All:  $2335.319 \pm 0.361$   $\chi^2/\text{NDF}$ : 1759478.4/45

- sign  $2282.558 \pm 0.497$   $\chi^2/\text{NDF}$ : 696940.6/22

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



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

Left Out: 2314.062 $\pm$ 1036.554  $\chi^2$ /NDF:10.6/5

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

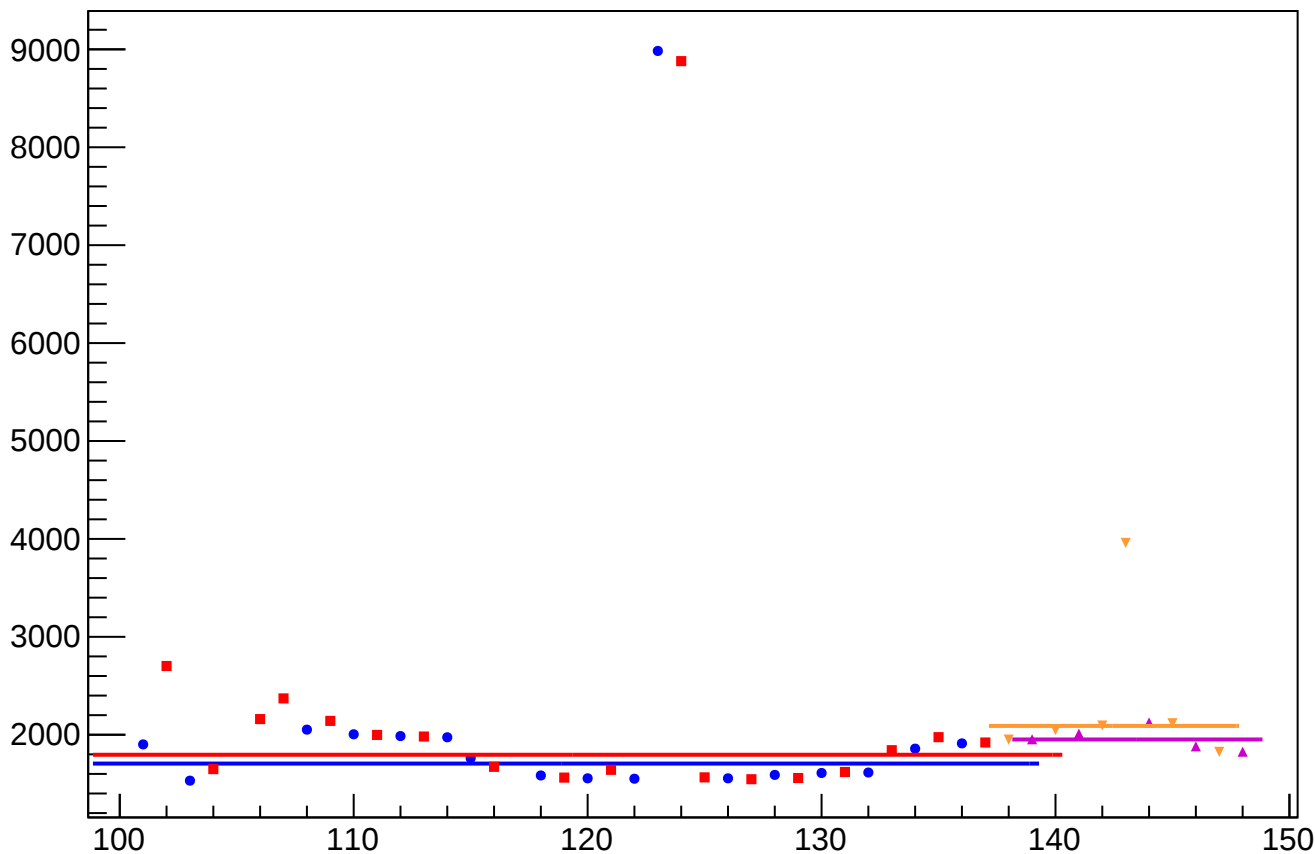
Left In: -2080.940 $\pm$ 966.073  $\chi^2$ /NDF:9.6/4

+ sign 1888.751 $\pm$ 560.996  $\chi^2$ /NDF: 22.2/22

All: 52.402 $\pm$ 397.935  $\chi^2$ /NDF: 80.4/45

- sign -1807.284 $\pm$ 564.550  $\chi^2$ /NDF: 36.5/22

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



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

Left Out: 2090.198+/-0.733  $\chi^2/\text{NDF}$ : 383438.5/5

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

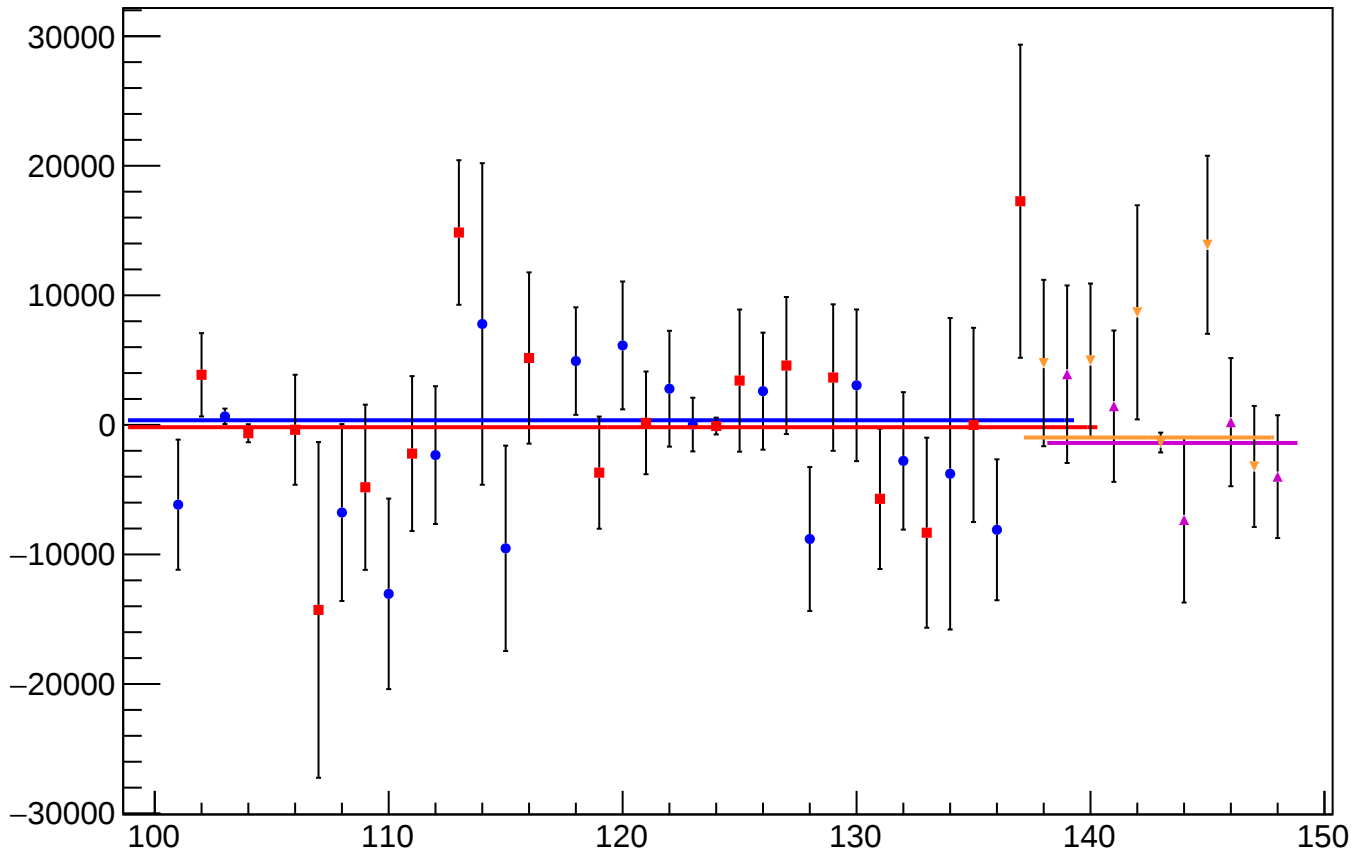
Left In: 1951.770+/-0.683  $\chi^2/\text{NDF}$ : 22676.8/4

+ sign 1818.270+/-0.397  $\chi^2/\text{NDF}$ : 772274.3/22

All: 1833.441+/-0.281  $\chi^2/\text{NDF}$ : 1351174.8/45

- sign 1848.760+/-0.399  $\chi^2/\text{NDF}$ : 575960.9/22

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



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

Left Out: -974.088+/-737.610  $\chi^2/\text{NDF}$ : 8.3/5

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

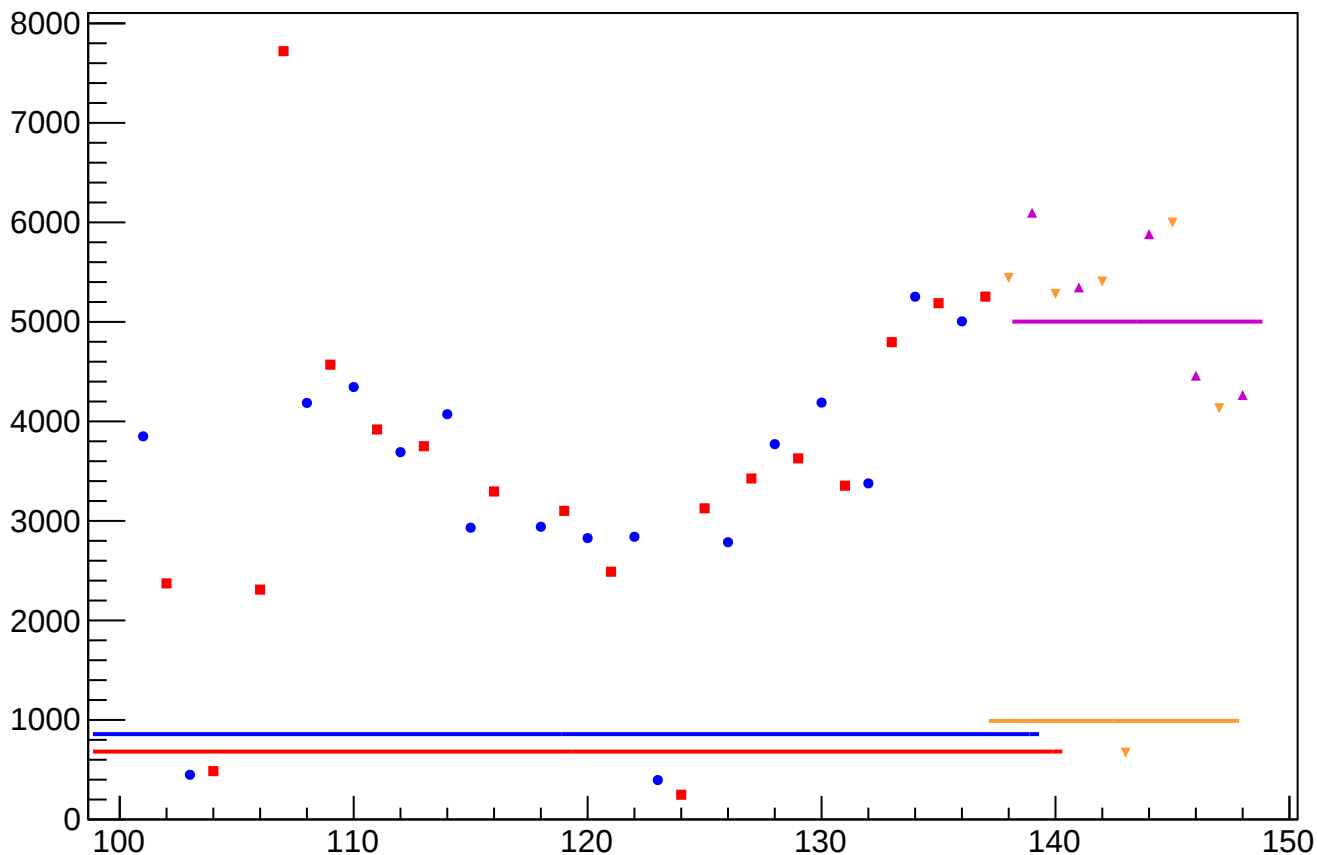
Left In: -1394.677+/-2495.239  $\chi^2/\text{NDF}$ : 2.1/4

+ sign -99.832+/-432.125  $\chi^2/\text{NDF}$ : 28.0/22

All: -157.348+/-308.302  $\chi^2/\text{NDF}$ : 48.9/45

- sign -216.978+/-439.991  $\chi^2/\text{NDF}$ : 20.9/22

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



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

Left Out: 990.494+/-0.522  $\chi^2$ /NDF:4888146.6/5

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

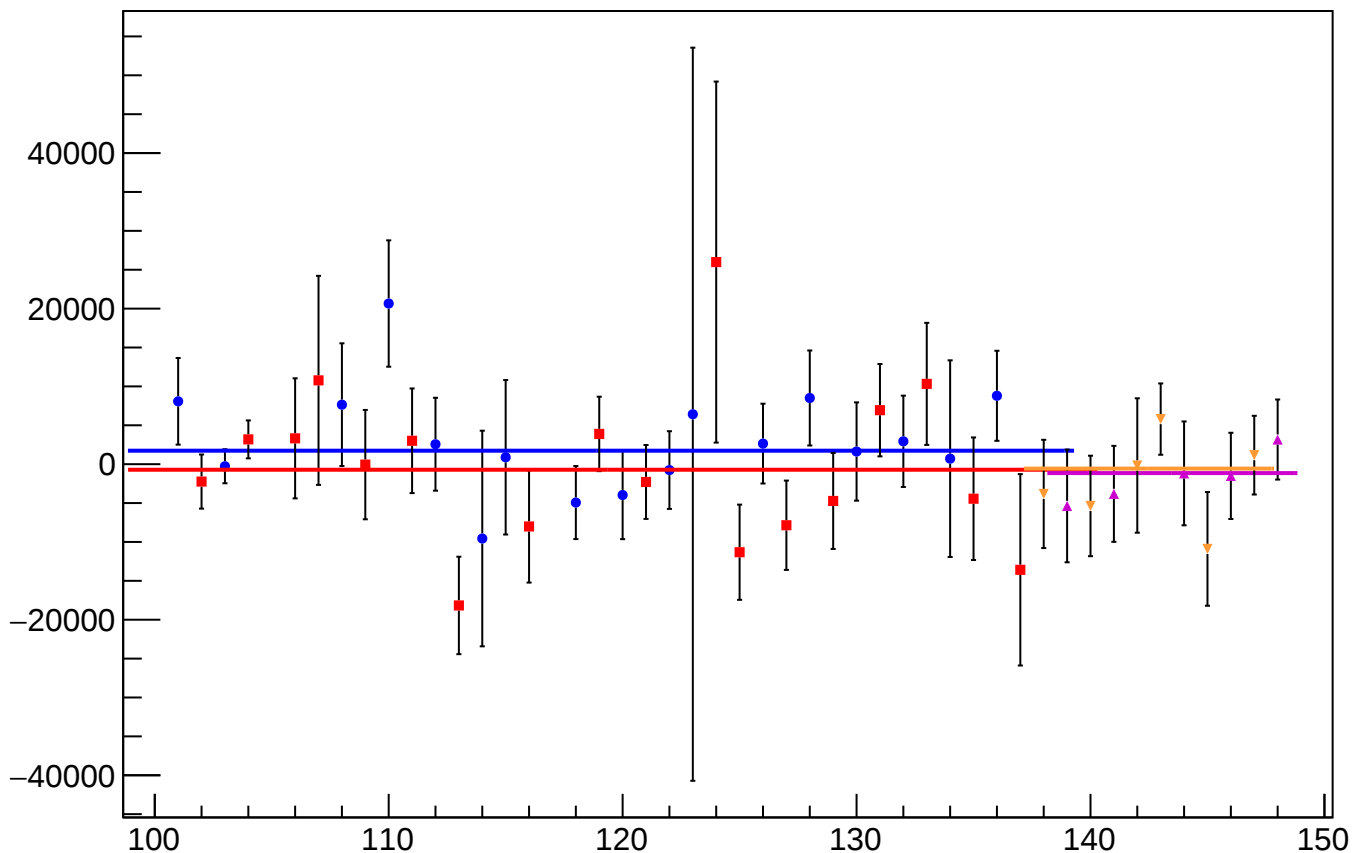
Left In: 5002.812+/-1.764  $\chi^2$ /NDF:168536.6/4

+ sign 903.127+/-0.306  $\chi^2$ /NDF: 13106129.3/22

All: 860.574+/-0.218  $\chi^2$ /NDF: 28502998.2/45

- sign 816.458+/-0.311  $\chi^2$ /NDF: 15357368.3/22

# asym\_atl\_avg\_mean vs Slug



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

Left Out: -568.310+/-2474.347  $\chi^2/\text{NDF}$ : 4.8/5

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

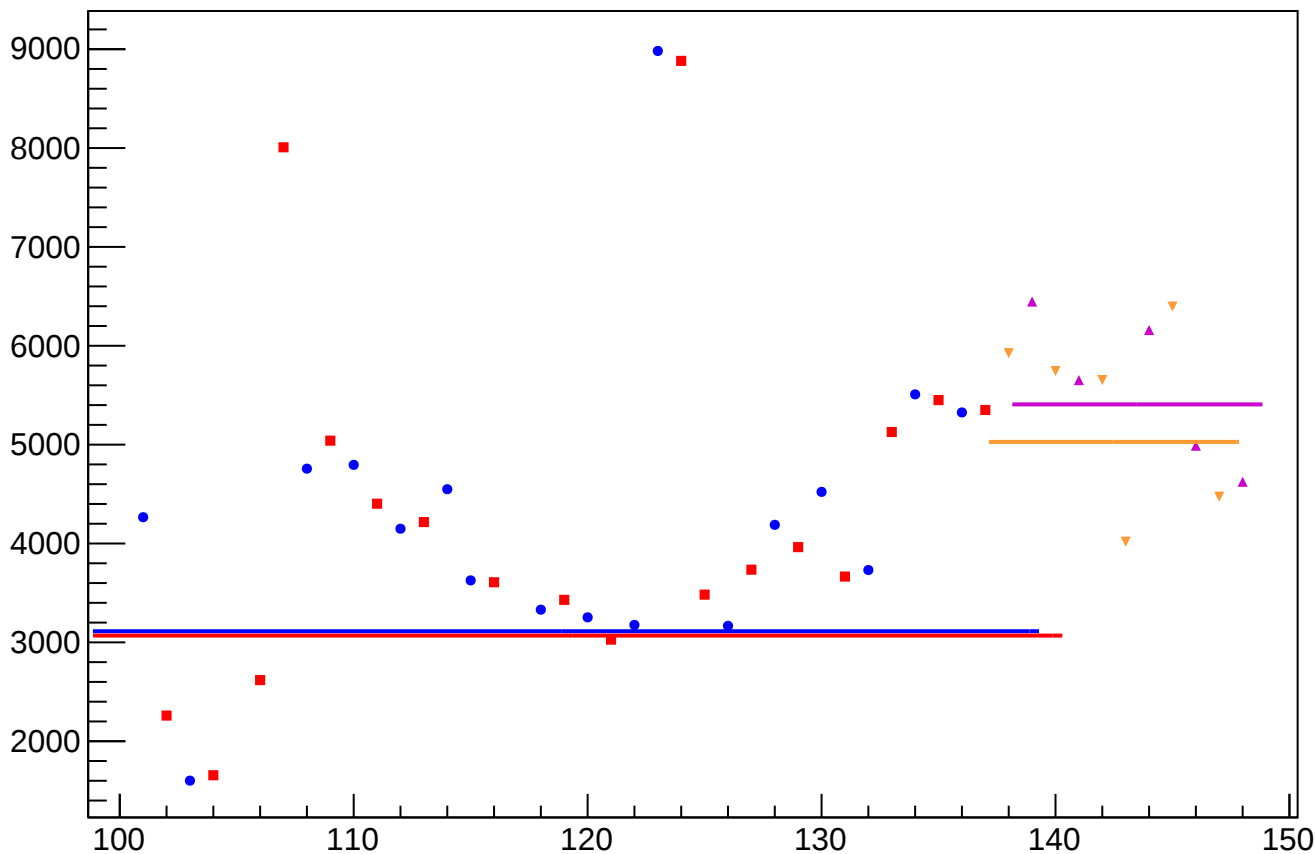
Left In: -1146.697+/-2691.810  $\chi^2/\text{NDF}$ : 1.2/4

+ sign 1232.622+/-1154.024  $\chi^2/\text{NDF}$ : 20.4/22

All: 226.836+/-819.461  $\chi^2/\text{NDF}$ : 48.3/45

- sign -796.107+/-1163.825  $\chi^2/\text{NDF}$ : 26.4/22

# asym\_atl\_avg\_rms vs Slug



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

Left Out:  $5027.792 \pm 1.750$   $\chi^2/\text{NDF}$ : 259380.0/5

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

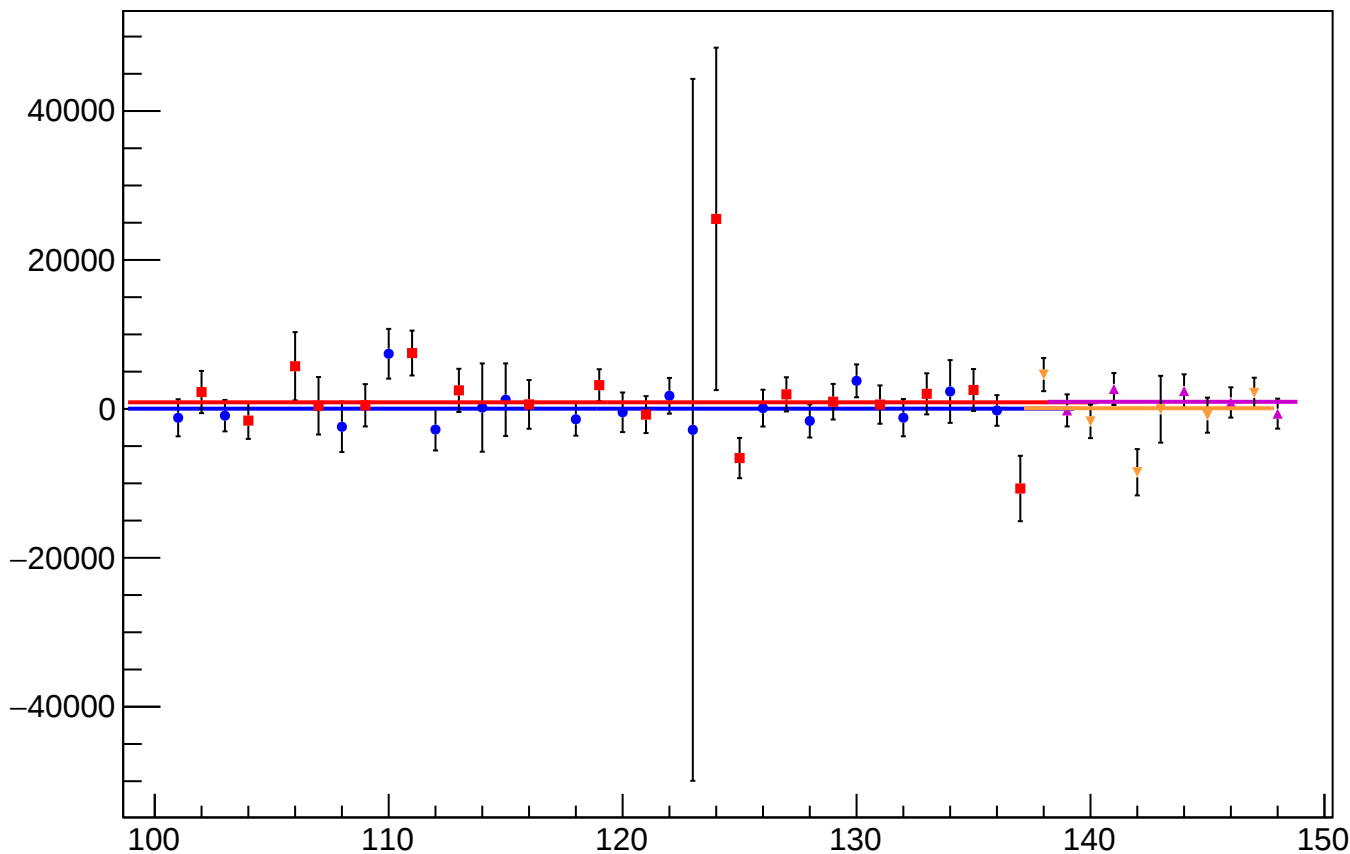
Left In:  $5407.055 \pm 1.903$   $\chi^2/\text{NDF}$ : 127392.7/4

+ sign  $3529.265 \pm 0.816$   $\chi^2/\text{NDF}$ : 3081380.3/22

All:  $3512.284 \pm 0.576$   $\chi^2/\text{NDF}$ : 6445136.4/45

- sign  $3495.421 \pm 0.813$   $\chi^2/\text{NDF}$ : 3362893.0/22

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



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

Left Out: 85.510+/-1013.214  $\chi^2/\text{NDF}$ : 13.6/5

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

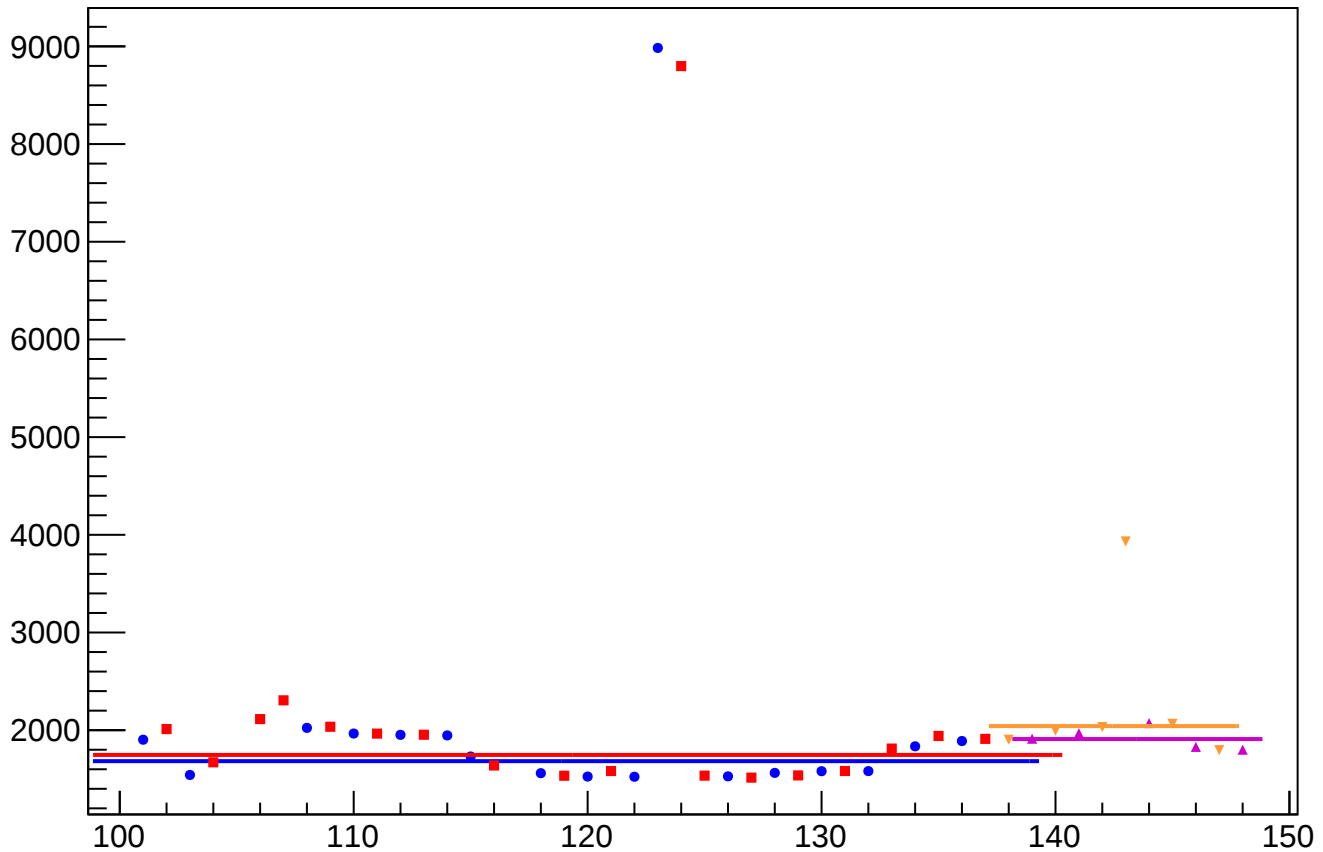
Left In: 950.307+/-944.807  $\chi^2/\text{NDF}$ : 2.0/4

+ sign 45.849+/-552.080  $\chi^2/\text{NDF}$ : 25.4/22

All: 478.066+/-389.296  $\chi^2/\text{NDF}$ : 54.2/45

- sign 905.520+/-549.029  $\chi^2/\text{NDF}$ : 27.6/22

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



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

Left Out: 2042.036+/-0.716  $\chi^2/\text{NDF}$ : 393067.6/5

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

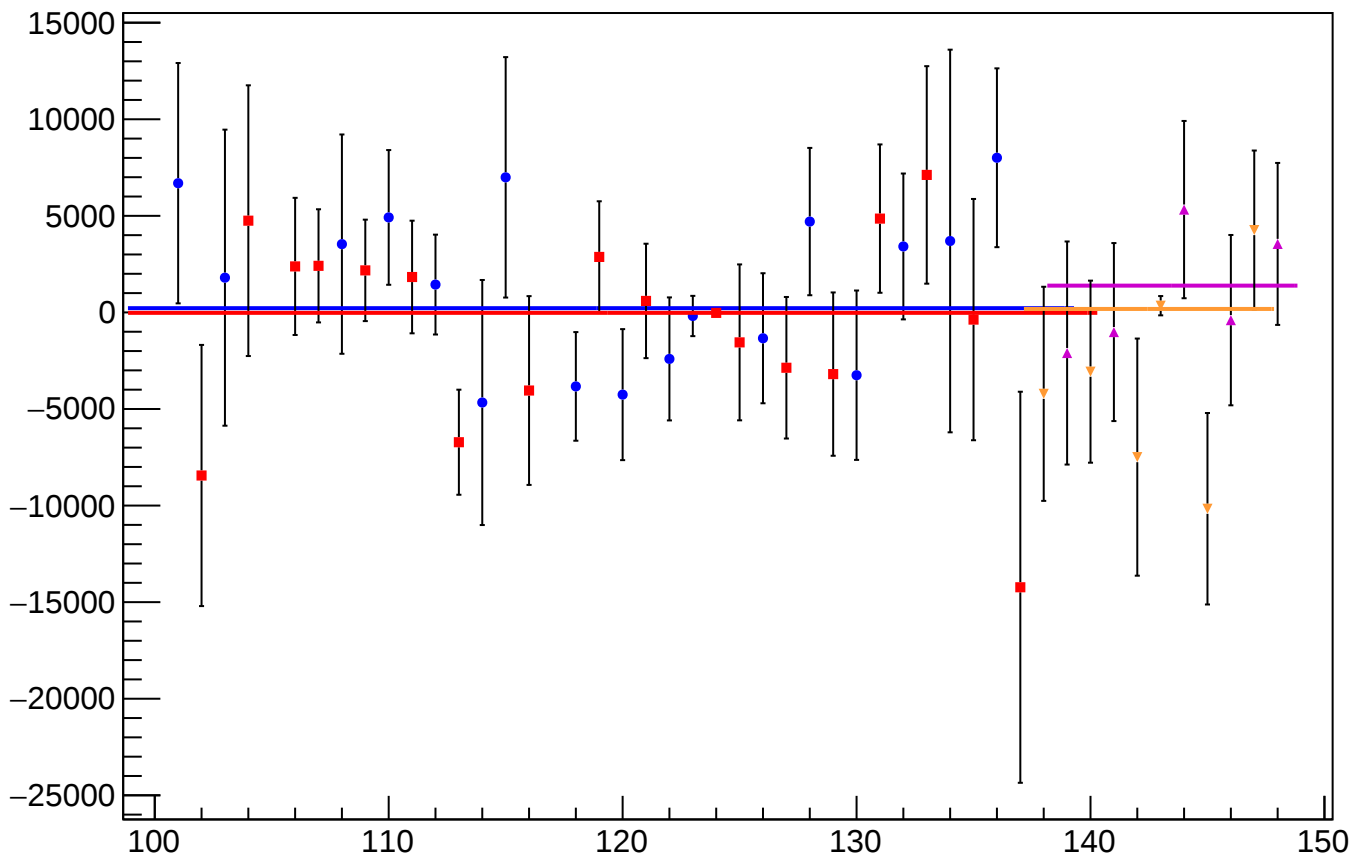
Left In: 1909.473+/-0.668  $\chi^2/\text{NDF}$ : 21169.6/4

+ sign 1789.683+/-0.390  $\chi^2/\text{NDF}$ : 765376.3/22

All: 1795.669+/-0.275  $\chi^2/\text{NDF}$ : 1233062.5/45

- sign 1801.572+/-0.388  $\chi^2/\text{NDF}$ : 467219.3/22

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



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

Left Out: 179.859 $\pm$ 487.064  $\chi^2$ /NDF: 8.1/5

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

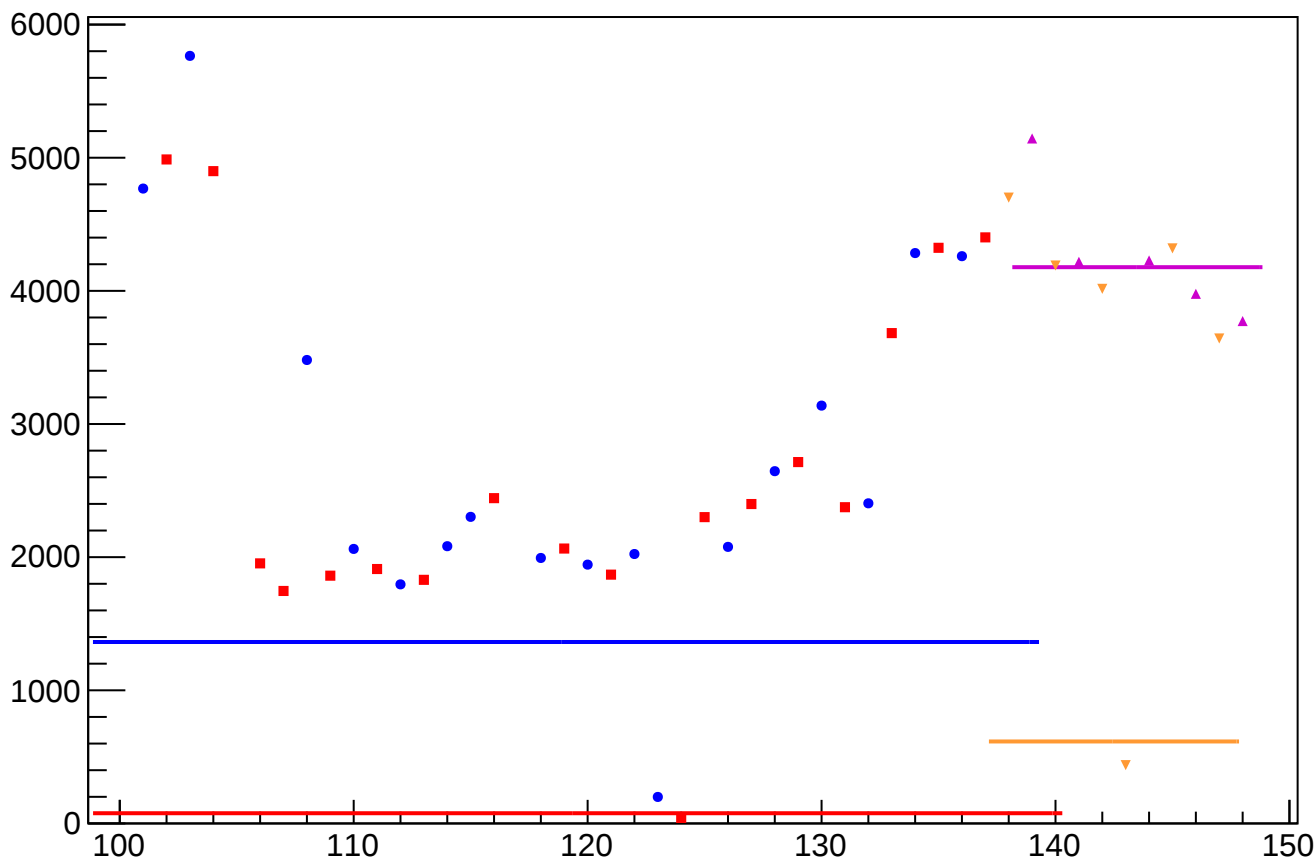
Left In: 1386.865 $\pm$ 2072.210  $\chi^2$ /NDF: 1.8/4

+ sign 192.379 $\pm$ 403.587  $\chi^2$ /NDF: 23.9/22

All: -2.171 $\pm$ 109.674  $\chi^2$ /NDF: 45.0/45

- sign -17.684 $\pm$ 113.963  $\chi^2$ /NDF: 20.8/22

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



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

Left Out: 615.761+/-0.344  $\chi^2/\text{NDF}$ : 5301266.6/5

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

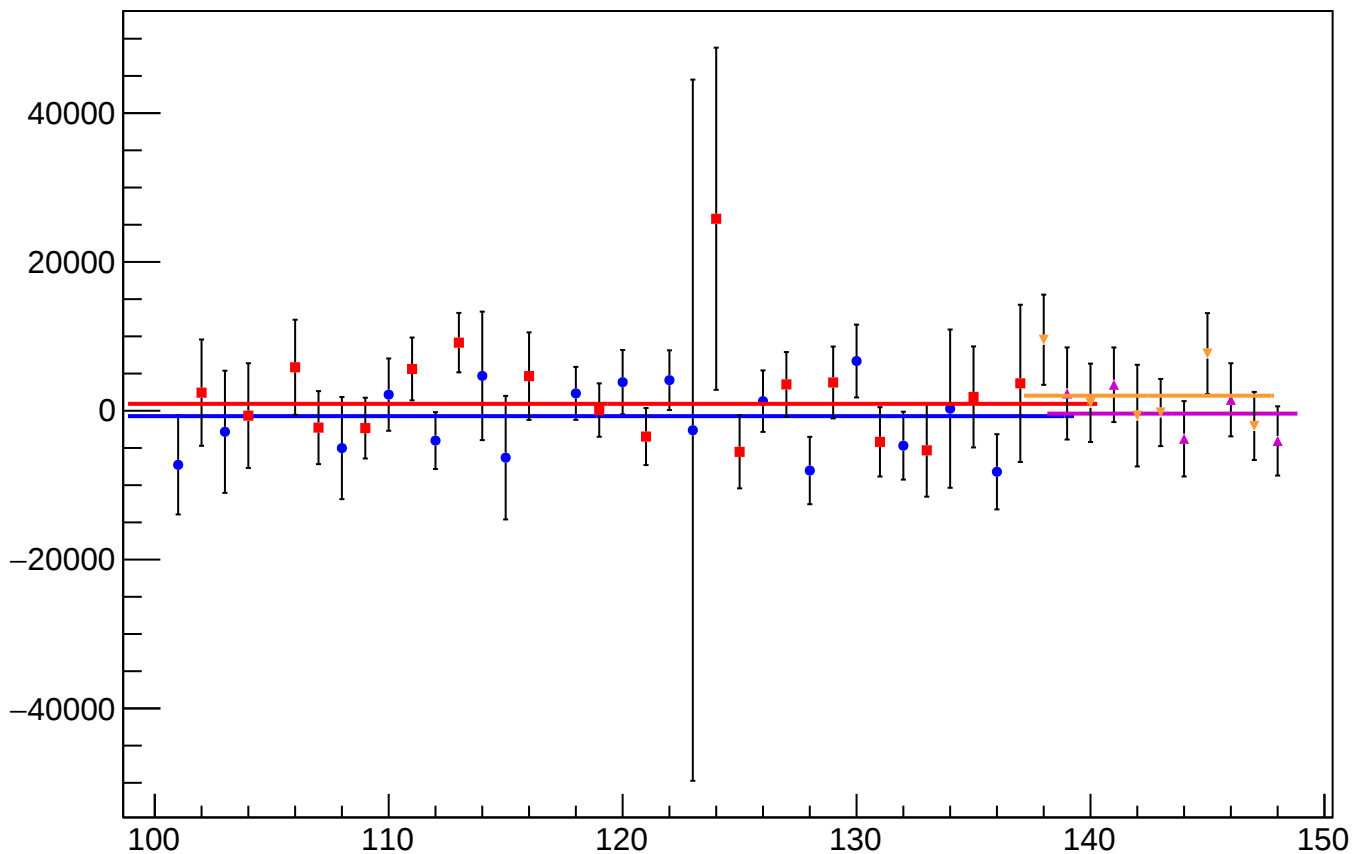
Left In: 4177.923+/-1.465  $\chi^2/\text{NDF}$ : 79184.7/4

+ sign 849.899+/-0.285  $\chi^2/\text{NDF}$ : 13011794.4/22

All: 145.409+/-0.078  $\chi^2/\text{NDF}$ : 40595234.0/45

- sign 89.236+/-0.081  $\chi^2/\text{NDF}$ : 21003461.9/22

# asym\_atl\_dd\_mean vs Slug



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

Left Out:  $2022.601 \pm 2154.753$   $\chi^2/\text{NDF}: 3.9/5$

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

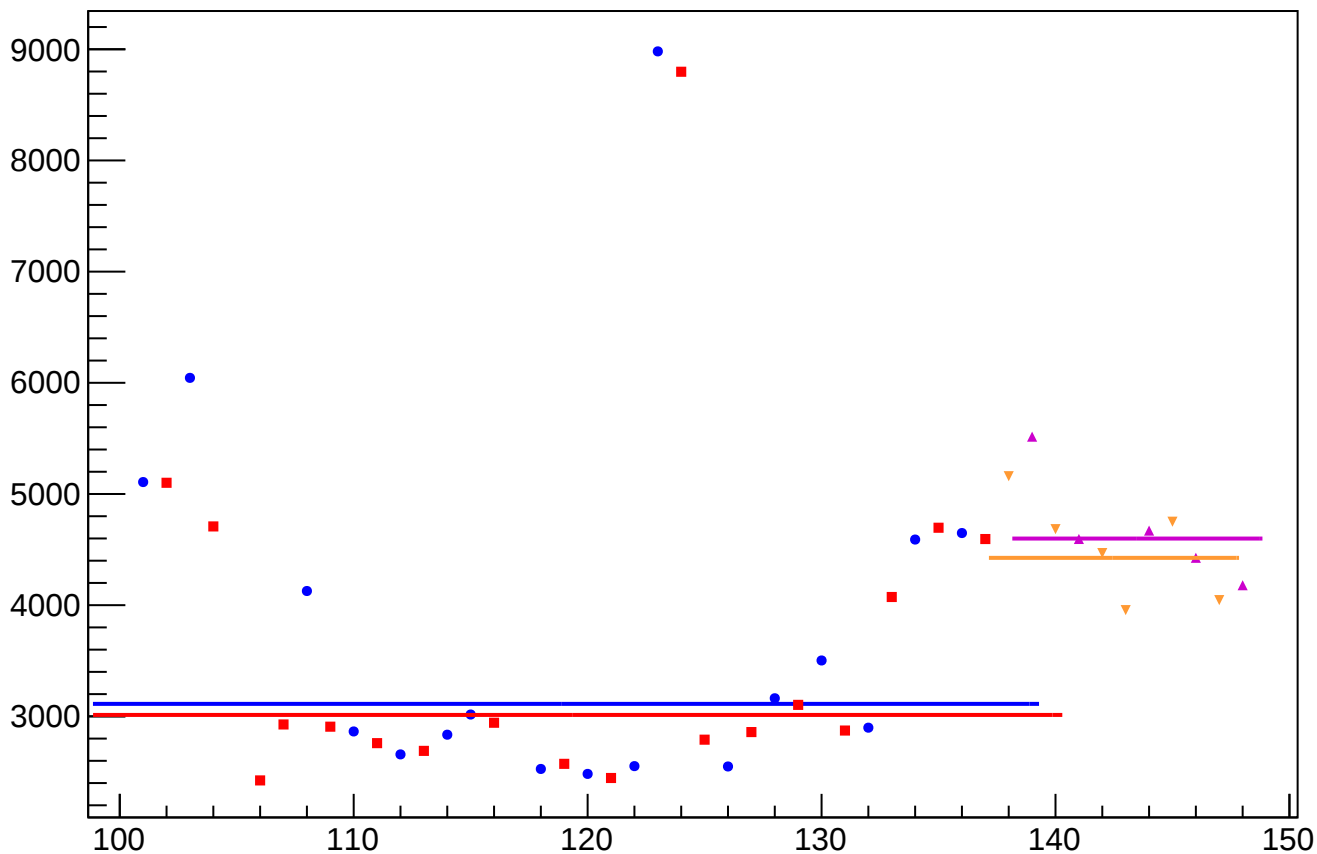
Left In:  $-381.235 \pm 2279.031$   $\chi^2/\text{NDF}: 2.0/4$

+ sign  $-28.455 \pm 1082.865$   $\chi^2/\text{NDF}: 19.8/22$

All:  $318.040 \pm 756.742$   $\chi^2/\text{NDF}: 37.2/45$

- sign  $648.779 \pm 1057.959$   $\chi^2/\text{NDF}: 17.2/22$

# asym\_atl\_dd\_rms vs Slug



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

Left Out:  $4425.573 \pm 1.524$   $\chi^2/\text{NDF}$ : 76897.0/5

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

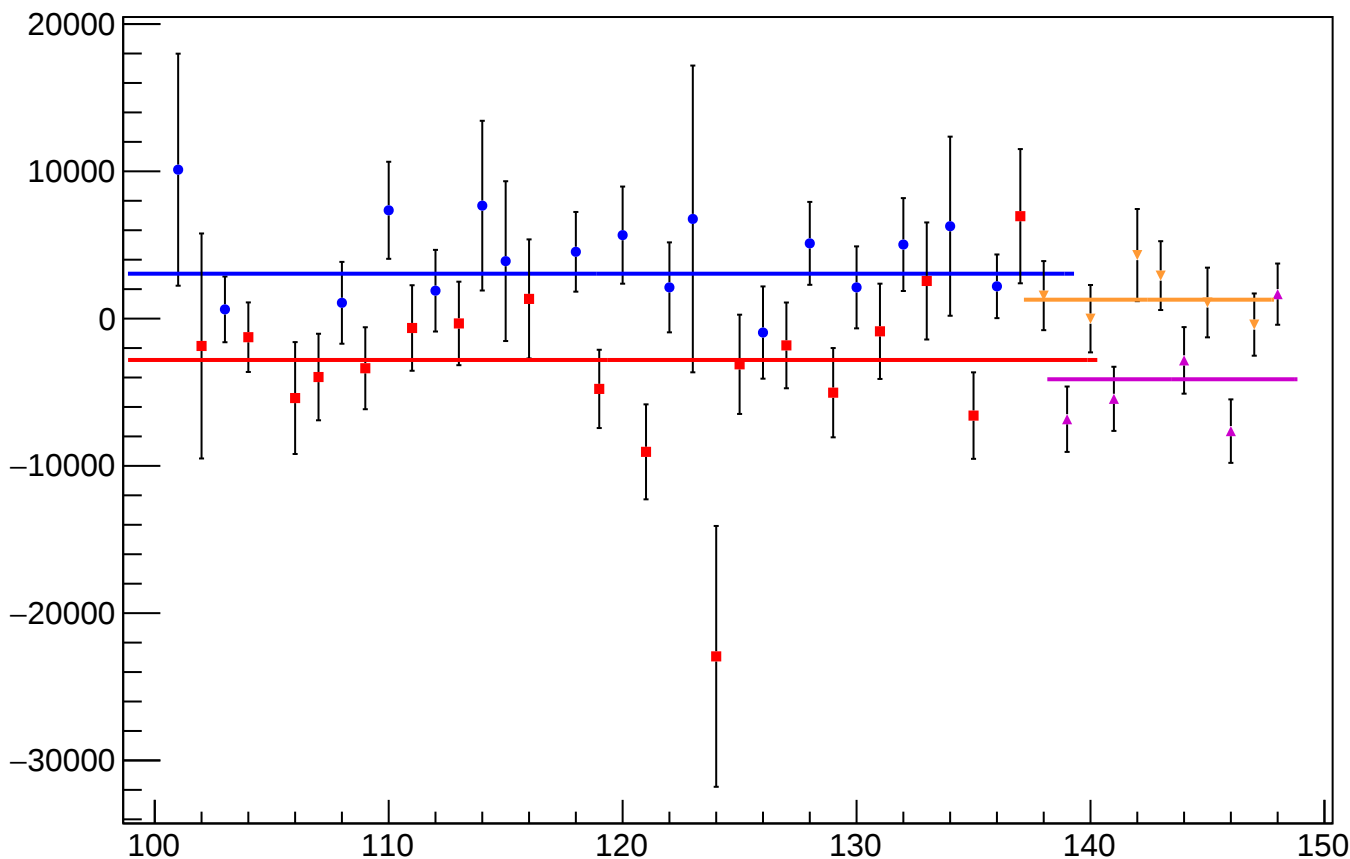
Left In:  $4599.139 \pm 1.612$   $\chi^2/\text{NDF}$ : 62983.5/4

+ sign  $3443.918 \pm 0.766$   $\chi^2/\text{NDF}$ : 1590750.2/22

All:  $3394.321 \pm 0.532$   $\chi^2/\text{NDF}$ : 3200434.3/45

- sign  $3347.908 \pm 0.741$   $\chi^2/\text{NDF}$ : 1601562.1/22

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



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

Left Out: 1284.180 $\pm$ 970.997  $\chi^2$ /NDF: 2.4/5

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

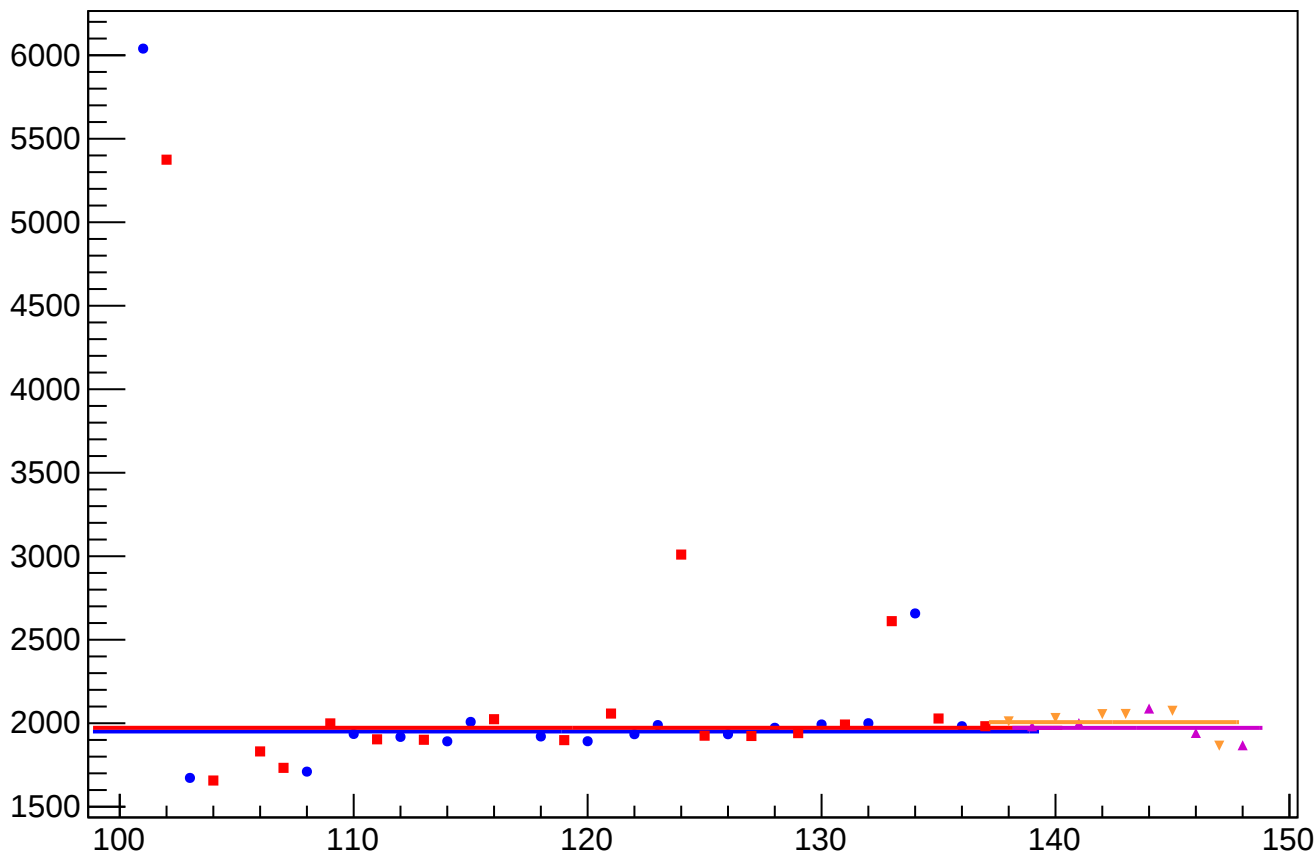
Left In: -4118.926 $\pm$ 972.952  $\chi^2$ /NDF: 12.6/4

+ sign 2365.190 $\pm$ 604.438  $\chi^2$ /NDF: 13.7/22

All: -484.307 $\pm$ 426.524  $\chi^2$ /NDF: 93.7/45

- sign -3310.490 $\pm$ 601.961  $\chi^2$ /NDF: 35.7/22

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



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

Left Out: 2006.576 $\pm$ 0.687  $\chi^2$ /NDF: 12133.4/5

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

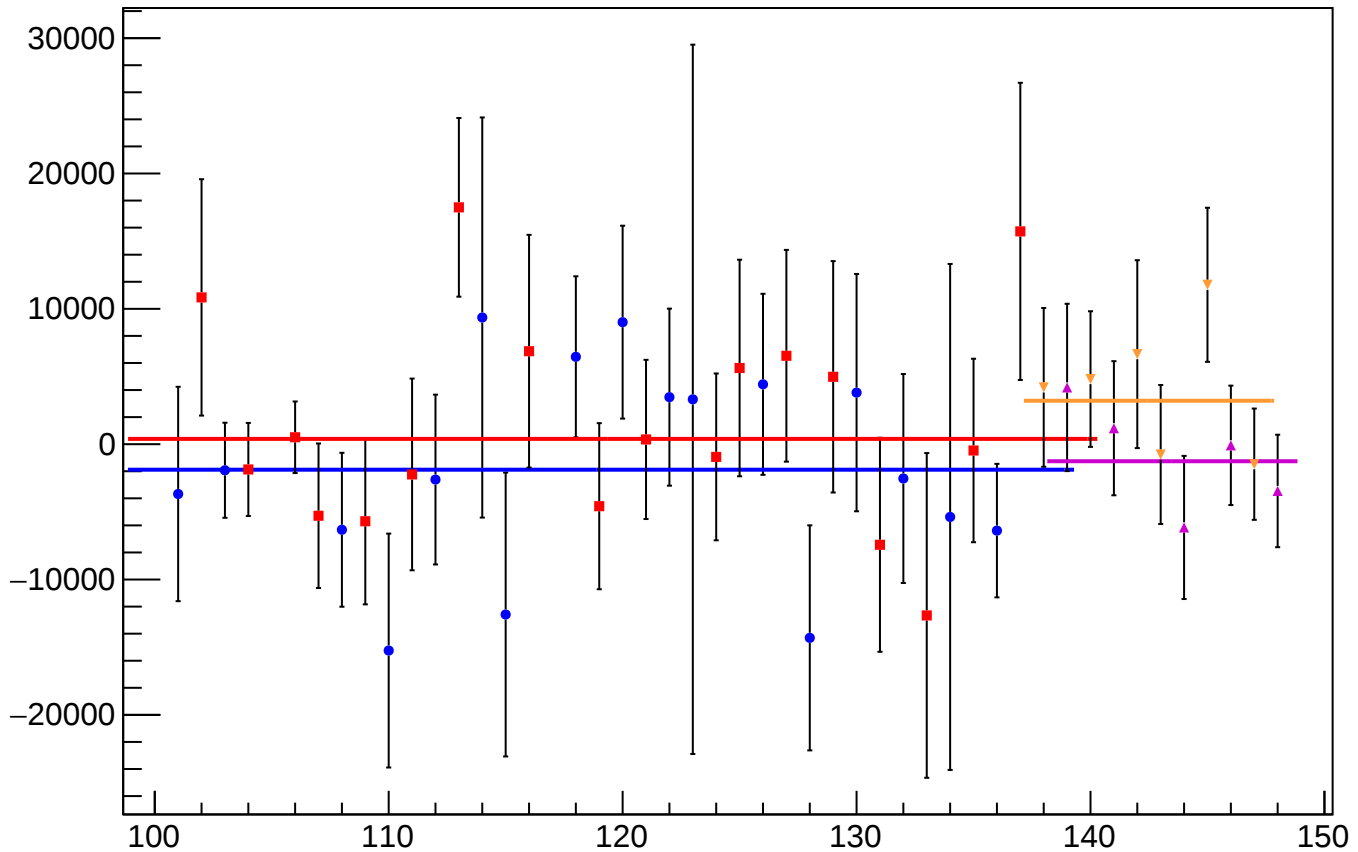
Left In: 1972.257 $\pm$ 0.688  $\chi^2$ /NDF: 11040.8/4

+ sign 1972.346 $\pm$ 0.427  $\chi^2$ /NDF: 631356.4/22

All: 1972.447 $\pm$ 0.302  $\chi^2$ /NDF: 1178067.7/45

- sign 1972.547 $\pm$ 0.425  $\chi^2$ /NDF: 546711.1/22

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



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

Left Out:  $3210.511 \pm 2143.597$   $\chi^2/\text{NDF}: 4.5/5$

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

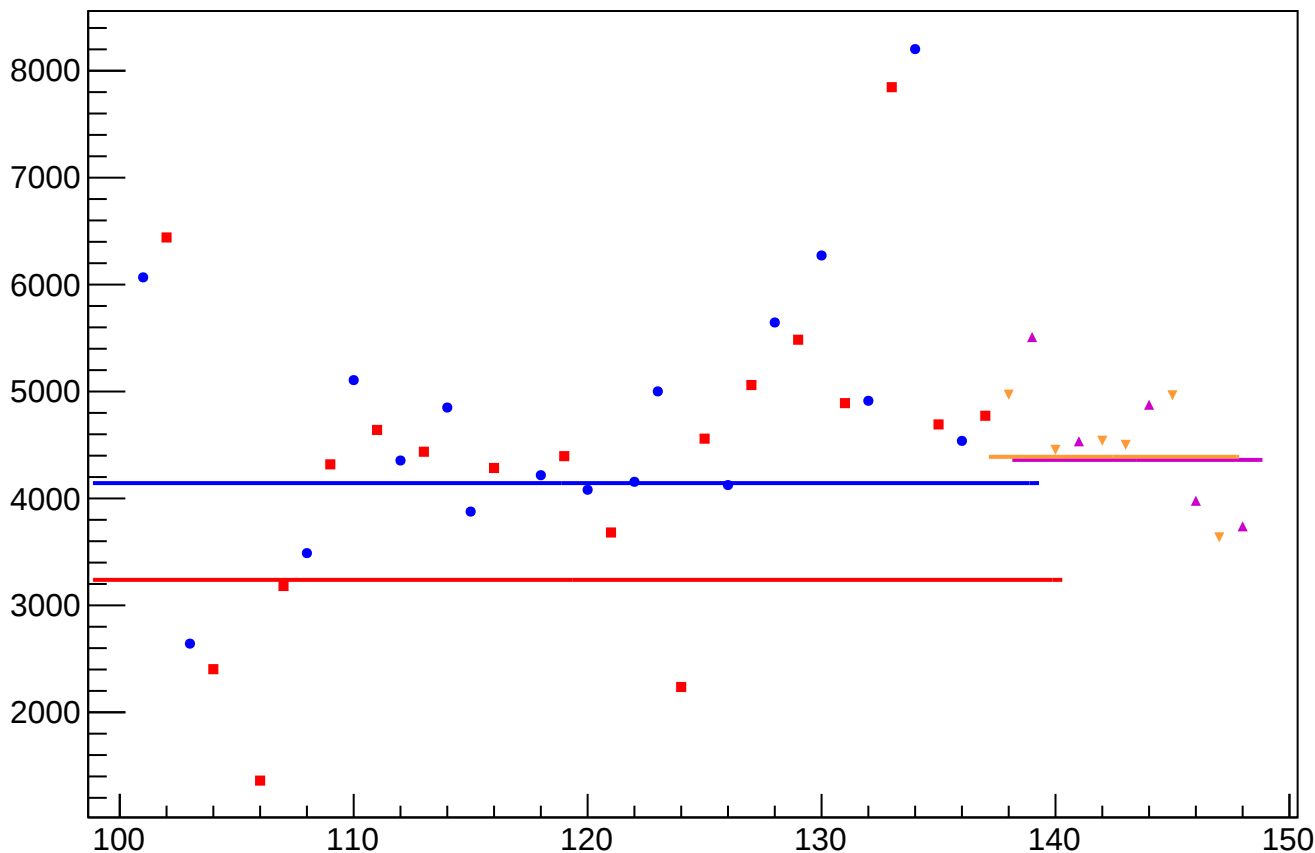
Left In:  $-1259.337 \pm 2171.909$   $\chi^2/\text{NDF}: 2.2/4$

+ sign  $22.121 \pm 1311.471$   $\chi^2/\text{NDF}: 22.2/22$

All:  $-32.256 \pm 866.224$   $\chi^2/\text{NDF}: 42.4/45$

- sign  $-74.336 \pm 1153.693$   $\chi^2/\text{NDF}: 20.2/22$

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



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

Left Out: 4389.252 $\pm$ 1.516  $\chi^2/\text{NDF}$ : 109421.9/5

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

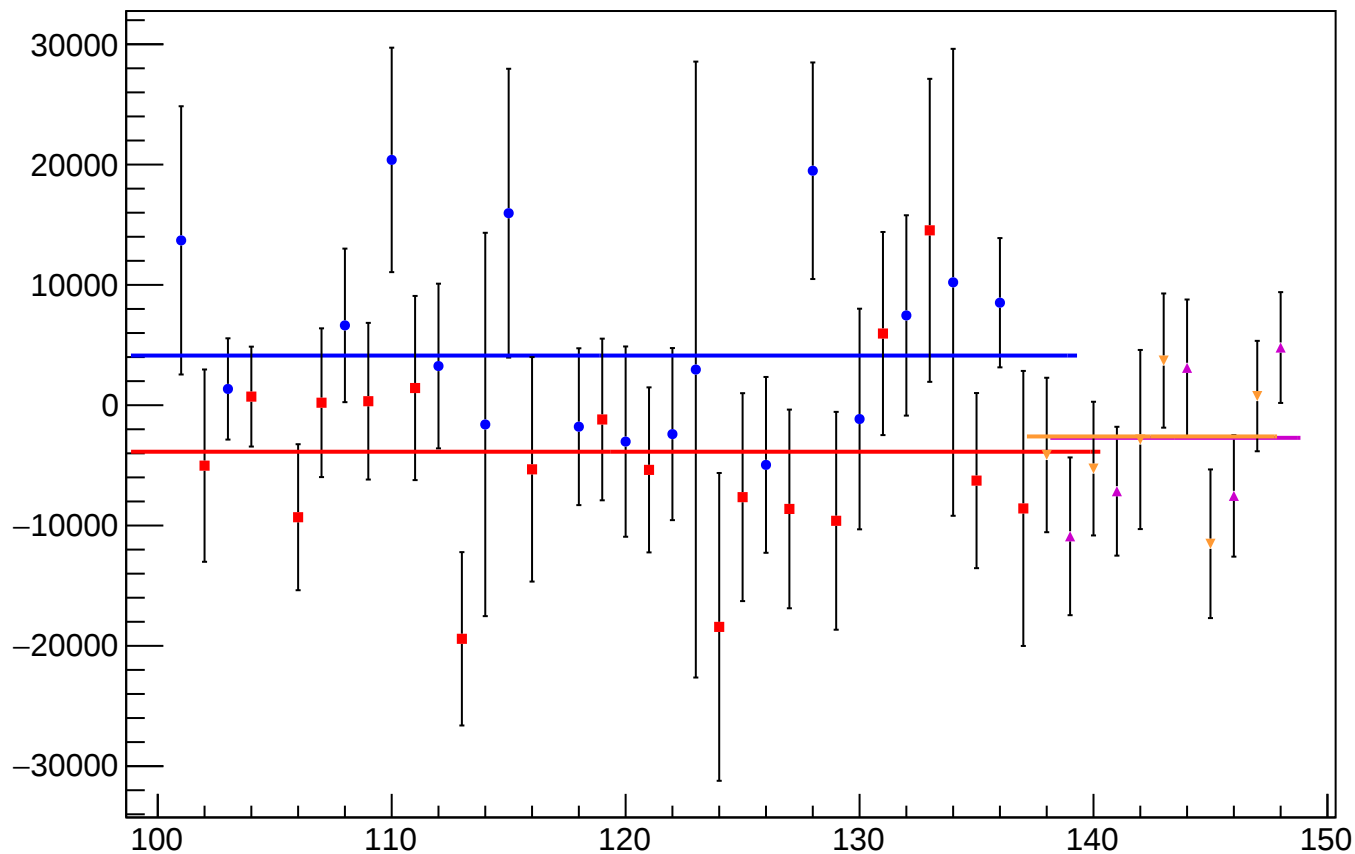
Left In: 4360.523 $\pm$ 1.536  $\chi^2/\text{NDF}$ : 150348.6/4

+ sign 4235.474 $\pm$ 0.927  $\chi^2/\text{NDF}$ : 981844.8/22

All: 3851.950 $\pm$ 0.613  $\chi^2/\text{NDF}$ : 4400649.8/45

- sign 3555.156 $\pm$ 0.816  $\chi^2/\text{NDF}$ : 3115404.2/22

# asym\_atr\_avg\_mean vs Slug



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

Left Out: -2596.982+/-2353.258  $\chi^2/\text{NDF}$ : 4.2/5

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

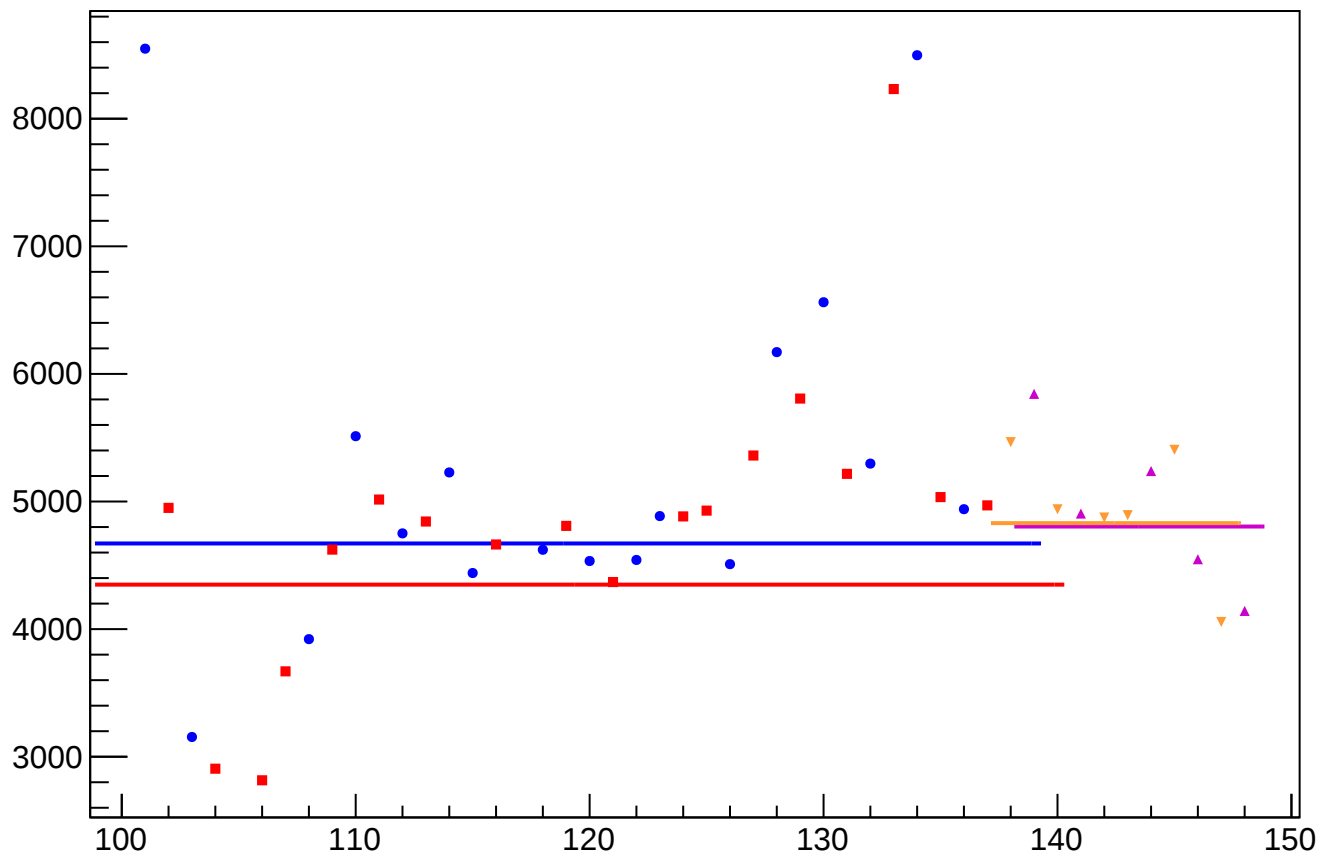
Left In: -2711.949+/-2386.989  $\chi^2/\text{NDF}$ : 6.9/4

+ sign 1536.098+/-1460.706  $\chi^2/\text{NDF}$ : 22.9/22

All: -1073.933+/-1010.521  $\chi^2/\text{NDF}$ : 50.3/45

- sign -3469.637+/-1399.448  $\chi^2/\text{NDF}$ : 21.3/22

# asym\_atr\_avg\_rms vs Slug



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

Left Out: 4830.587+/-1.664  $\chi^2/\text{NDF}$ : 94902.2/5

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

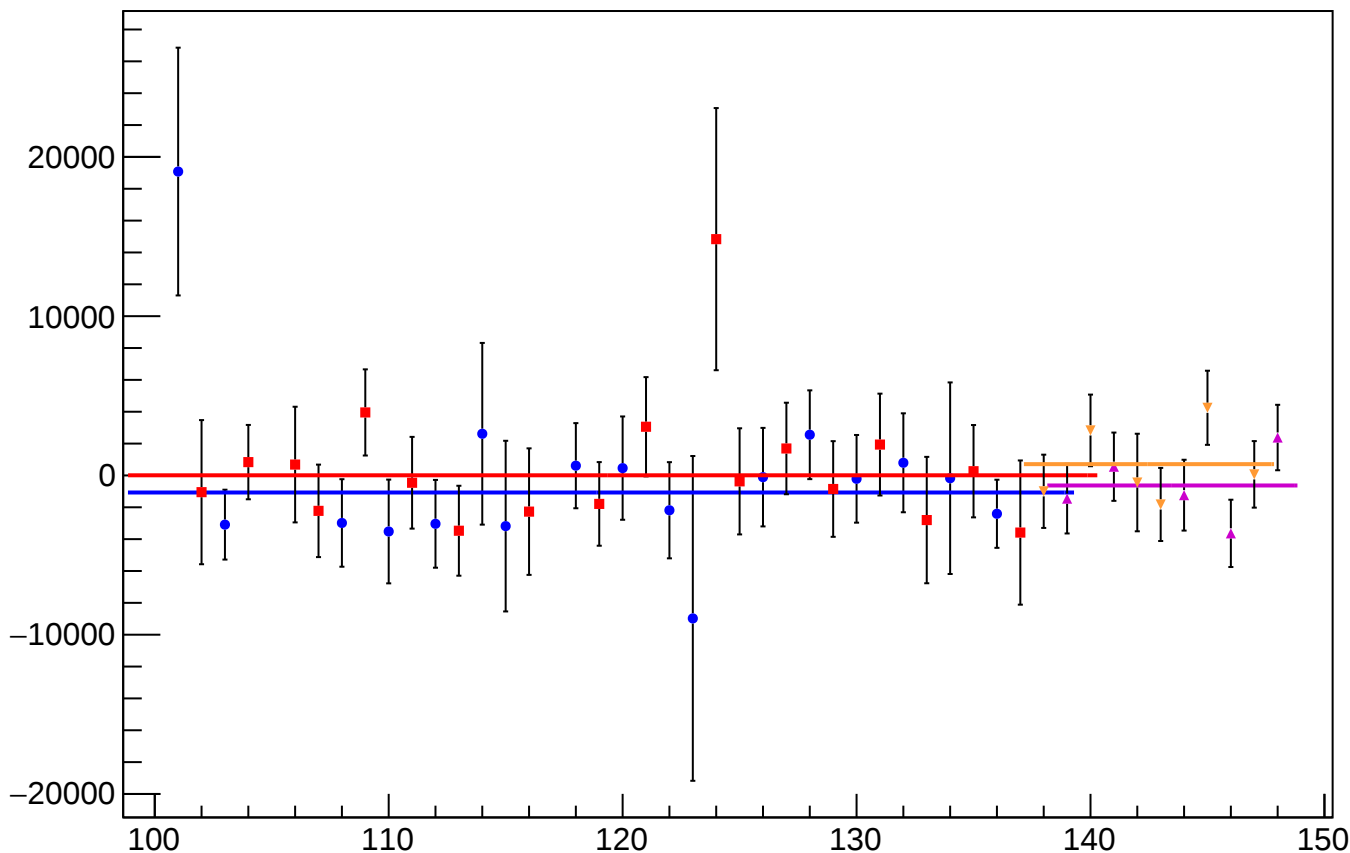
Left In: 4803.995+/-1.688  $\chi^2/\text{NDF}$ : 109137.0/4

+ sign 4732.683+/-1.033  $\chi^2/\text{NDF}$ : 886645.6/22

All: 4613.019+/-0.713  $\chi^2/\text{NDF}$ : 1861796.7/45

- sign 4504.017+/-0.986  $\chi^2/\text{NDF}$ : 949502.1/22

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



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

Left Out:  $708.822 \pm 954.772$   $\chi^2/\text{NDF}$ : 5.2/5

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

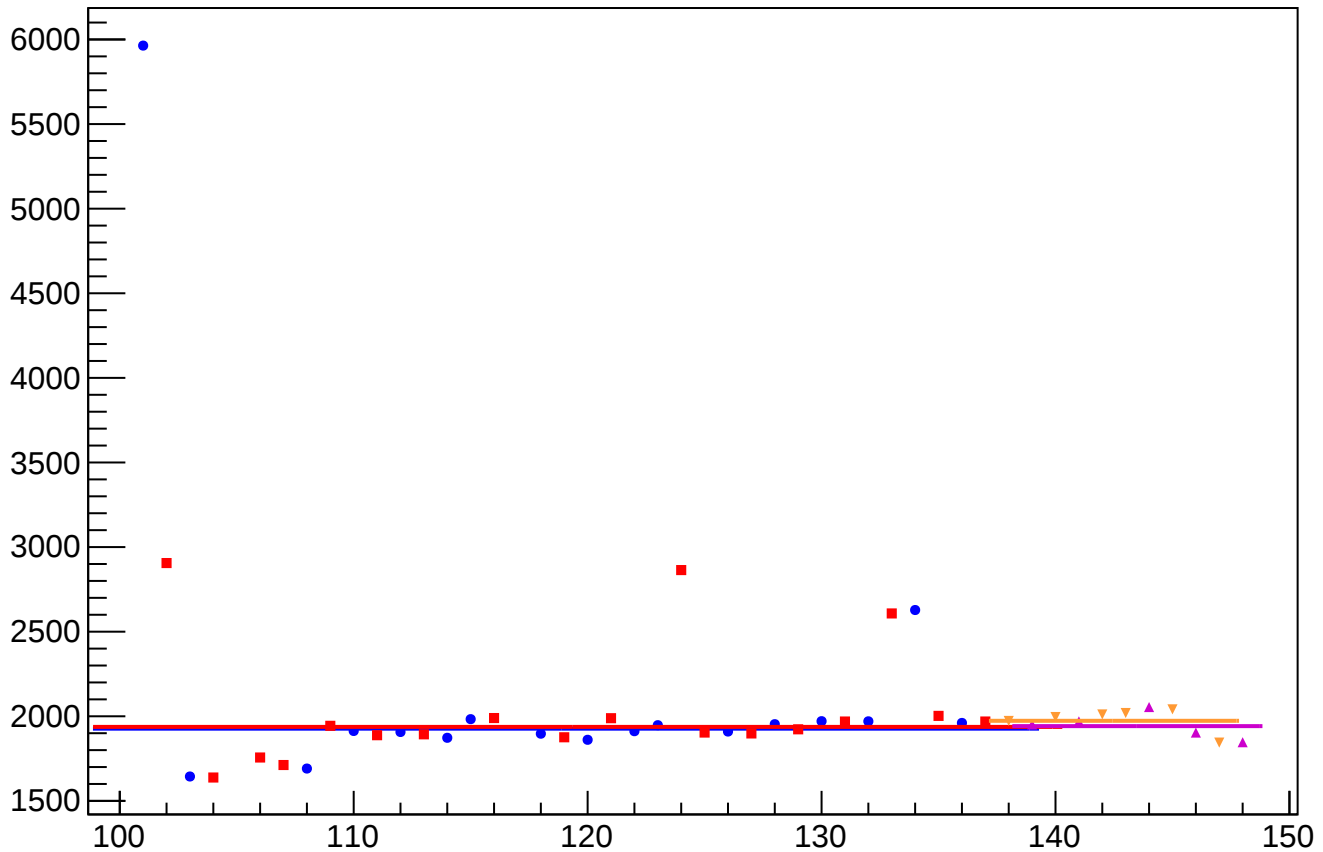
Left In:  $-630.502 \pm 957.799$   $\chi^2/\text{NDF}$ : 4.7/4

+ sign  $-377.529 \pm 596.038$   $\chi^2/\text{NDF}$ : 21.0/22

All:  $-304.660 \pm 419.157$   $\chi^2/\text{NDF}$ : 37.5/45

- sign  $-233.362 \pm 589.571$   $\chi^2/\text{NDF}$ : 16.4/22

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



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

Left Out: 1973.297 $\pm$ 0.675  $\chi^2$ /NDF: 10603.0/5

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

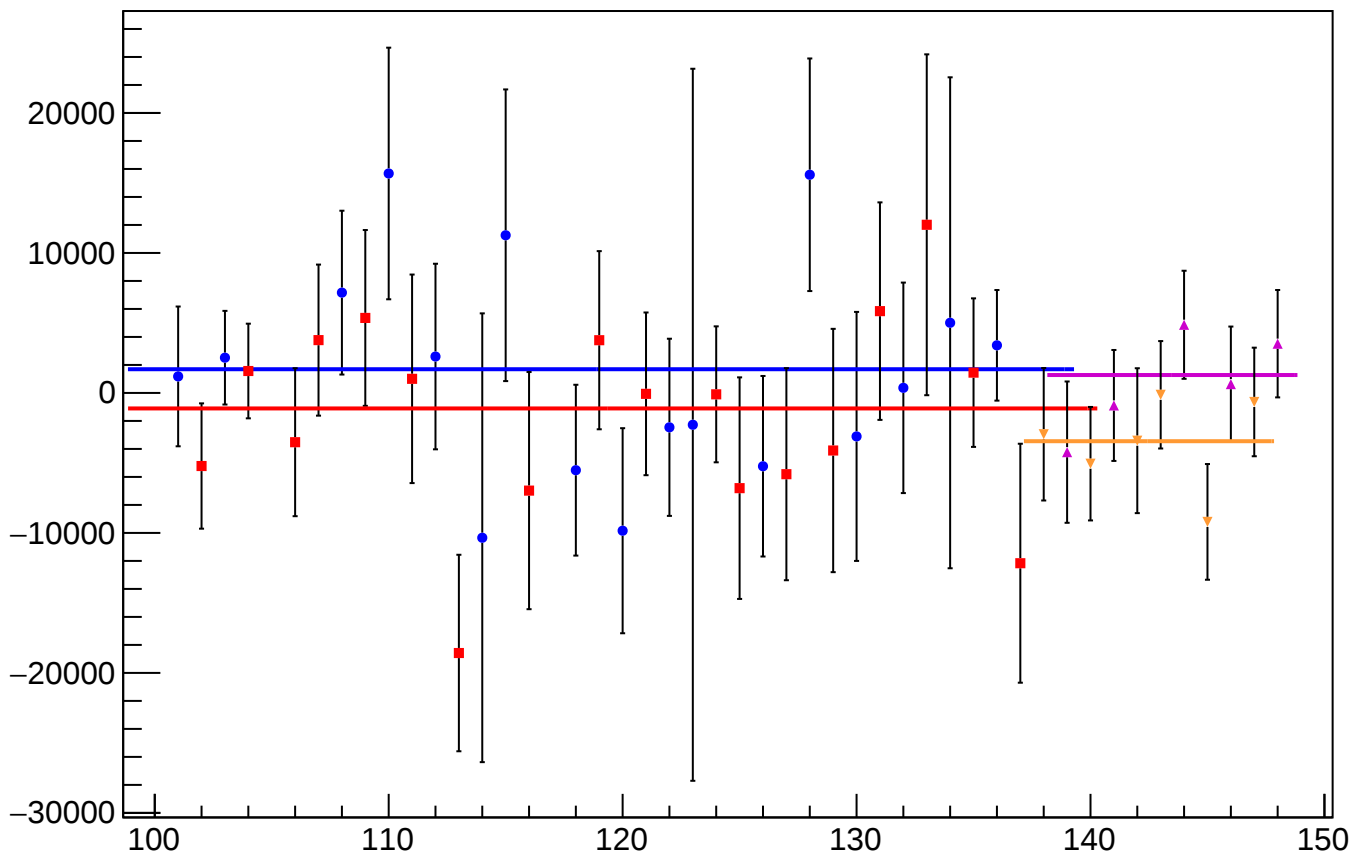
Left In: 1941.822 $\pm$ 0.677  $\chi^2$ /NDF: 10469.7/4

+ sign 1944.976 $\pm$ 0.421  $\chi^2$ /NDF: 630602.8/22

All: 1941.953 $\pm$ 0.296  $\chi^2$ /NDF: 870281.6/45

- sign 1938.999 $\pm$ 0.417  $\chi^2$ /NDF: 239577.1/22

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



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

Left Out: -3447.958 $\pm$ 1725.536  $\chi^2$ /NDF: 3.4/5

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

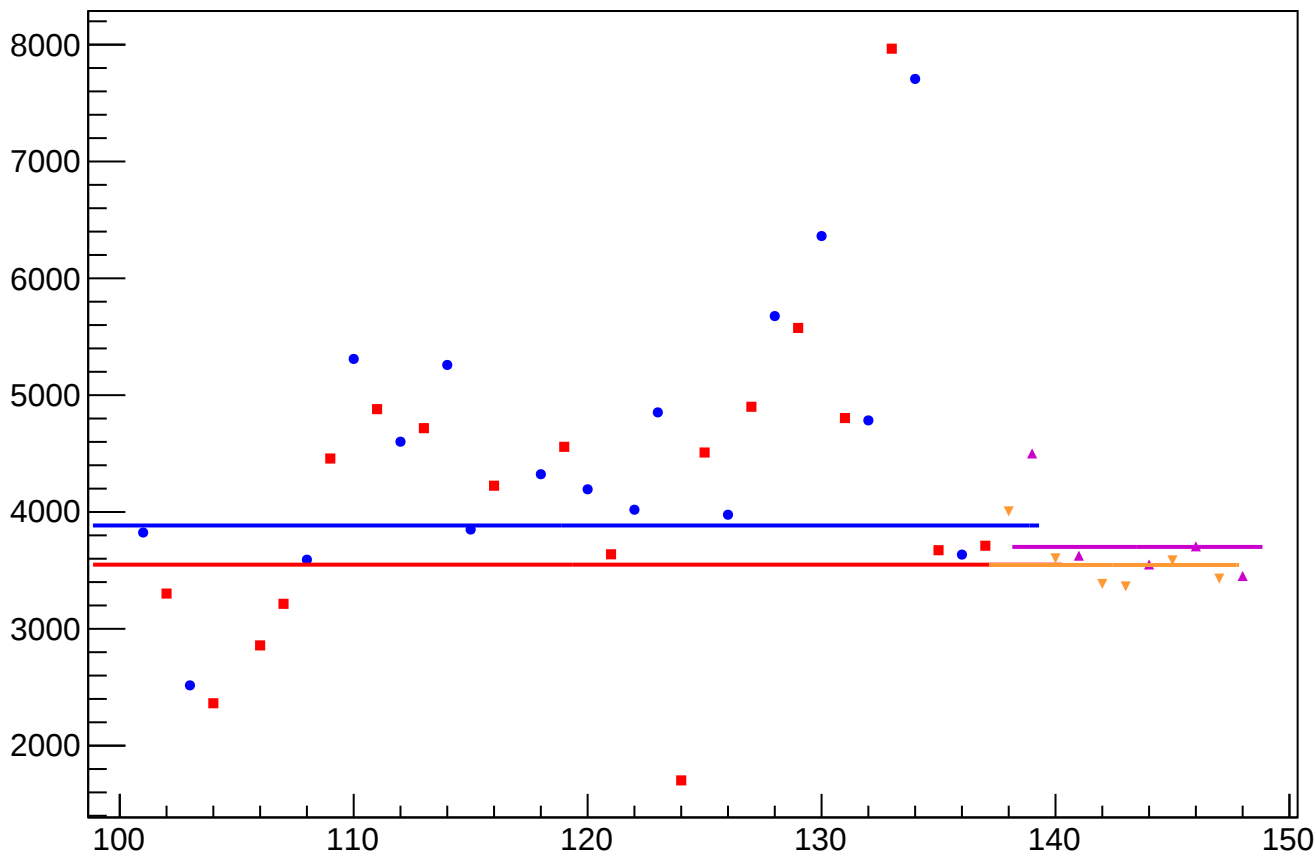
Left In: 1279.606 $\pm$ 1834.308  $\chi^2$ /NDF: 2.7/4

+ sign -605.412 $\pm$ 1153.895  $\chi^2$ /NDF: 21.9/22

All: -406.331 $\pm$ 803.394  $\chi^2$ /NDF: 41.6/45

- sign -219.028 $\pm$ 1119.239  $\chi^2$ /NDF: 19.7/22

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



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

Left Out: 3546.404+/-1.220  $\chi^2/\text{NDF}$ : 27743.1/5

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

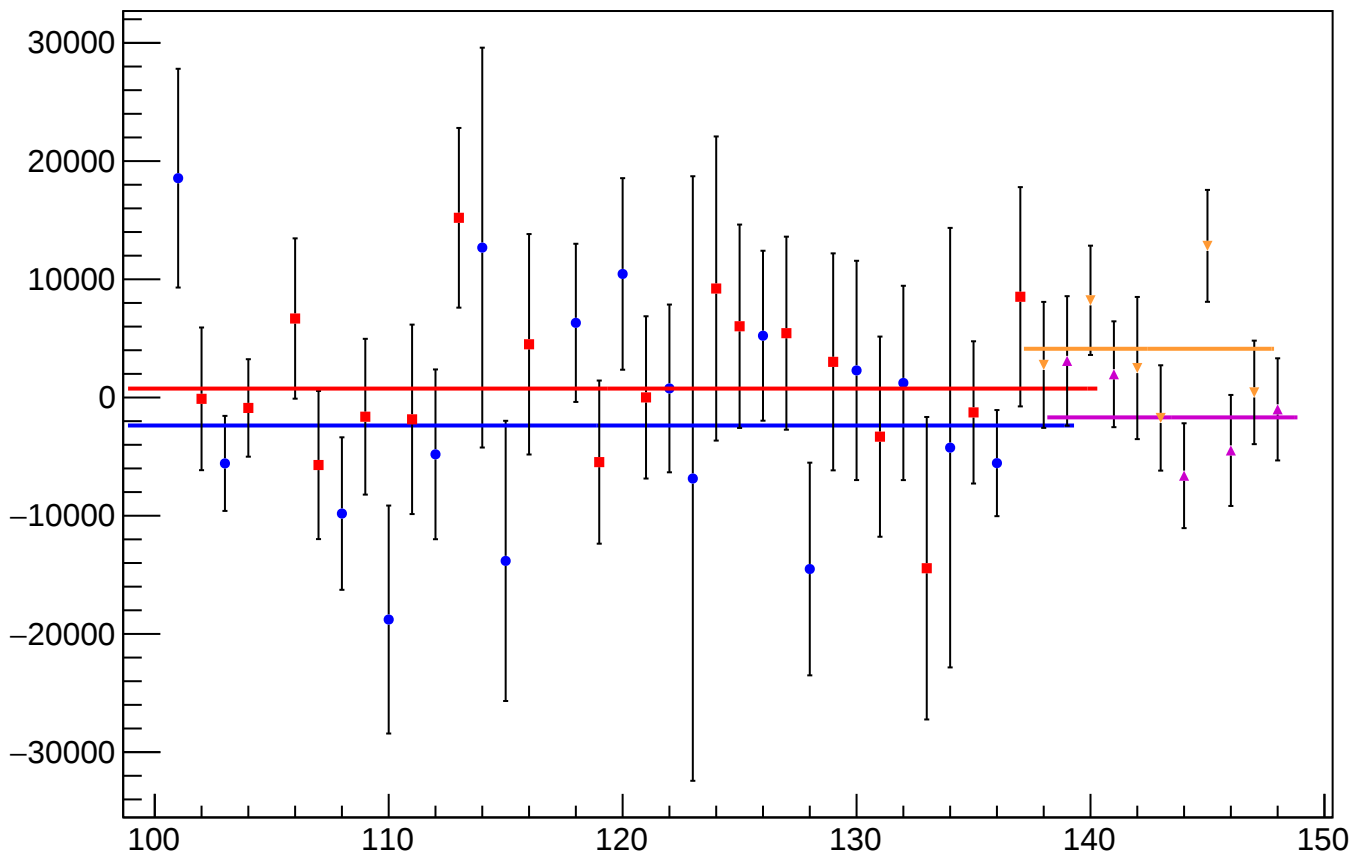
Left In: 3701.035+/-1.297  $\chi^2/\text{NDF}$ : 62427.8/4

+ sign 3733.366+/-0.816  $\chi^2/\text{NDF}$ : 896779.3/22

All: 3667.581+/-0.568  $\chi^2/\text{NDF}$ : 2307380.6/45

- sign 3605.687+/-0.791  $\chi^2/\text{NDF}$ : 1397984.6/22

# asym\_atr\_dd\_mean vs Slug



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

Left Out: 4122.888 $\pm$ 1973.357  $\chi^2$ /NDF:6.7/5

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

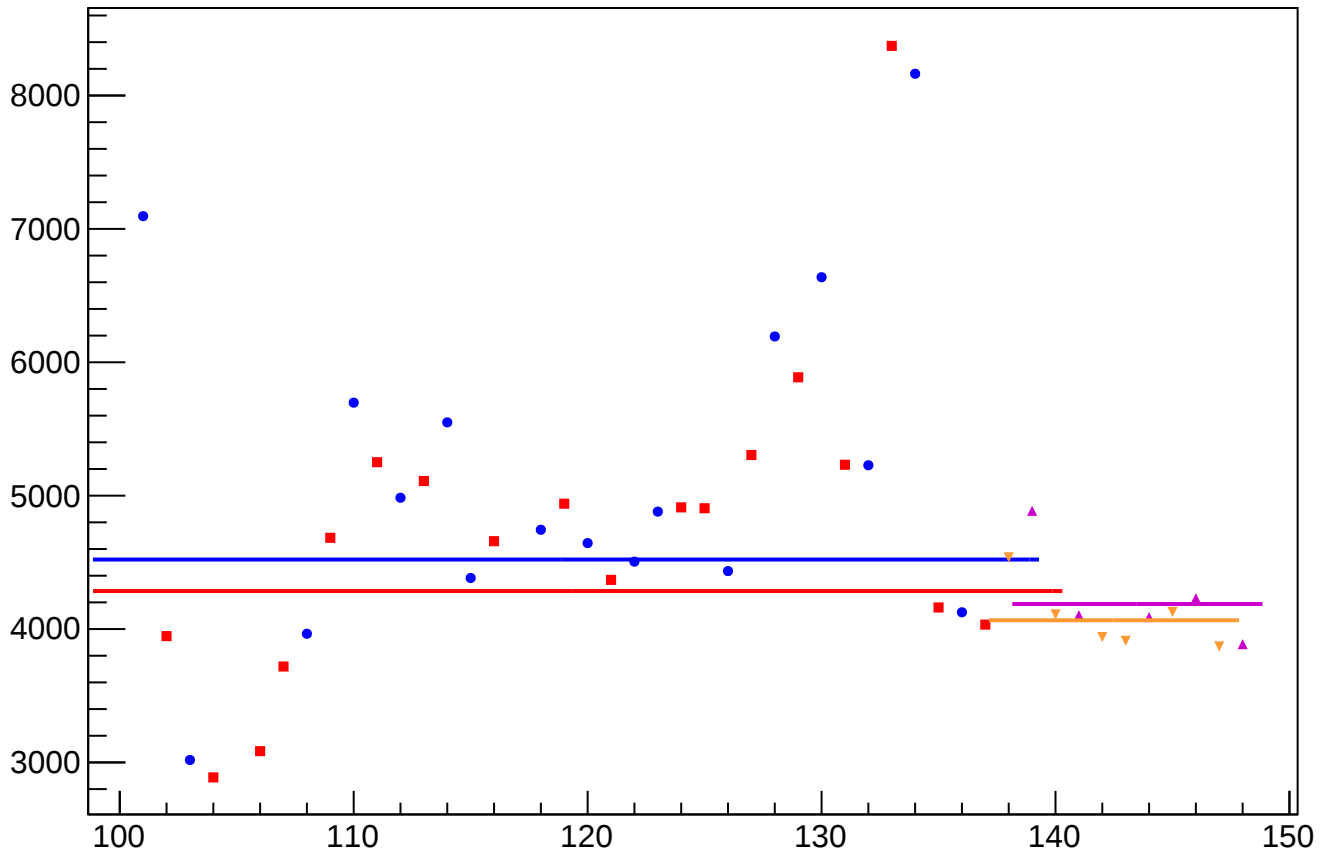
Left In: -1680.698 $\pm$ 2071.683  $\chi^2$ /NDF:3.0/4

+ sign 583.595 $\pm$ 1330.647  $\chi^2$ /NDF: 32.8/22

All: 175.857 $\pm$ 933.879  $\chi^2$ /NDF: 47.3/45

- sign -219.918 $\pm$ 1310.981  $\chi^2$ /NDF: 14.4/22

# asym\_atr\_dd\_rms vs Slug



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

Left Out:  $4065.836 \pm 1.395$   $\chi^2/\text{NDF}: 23488.4/5$

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

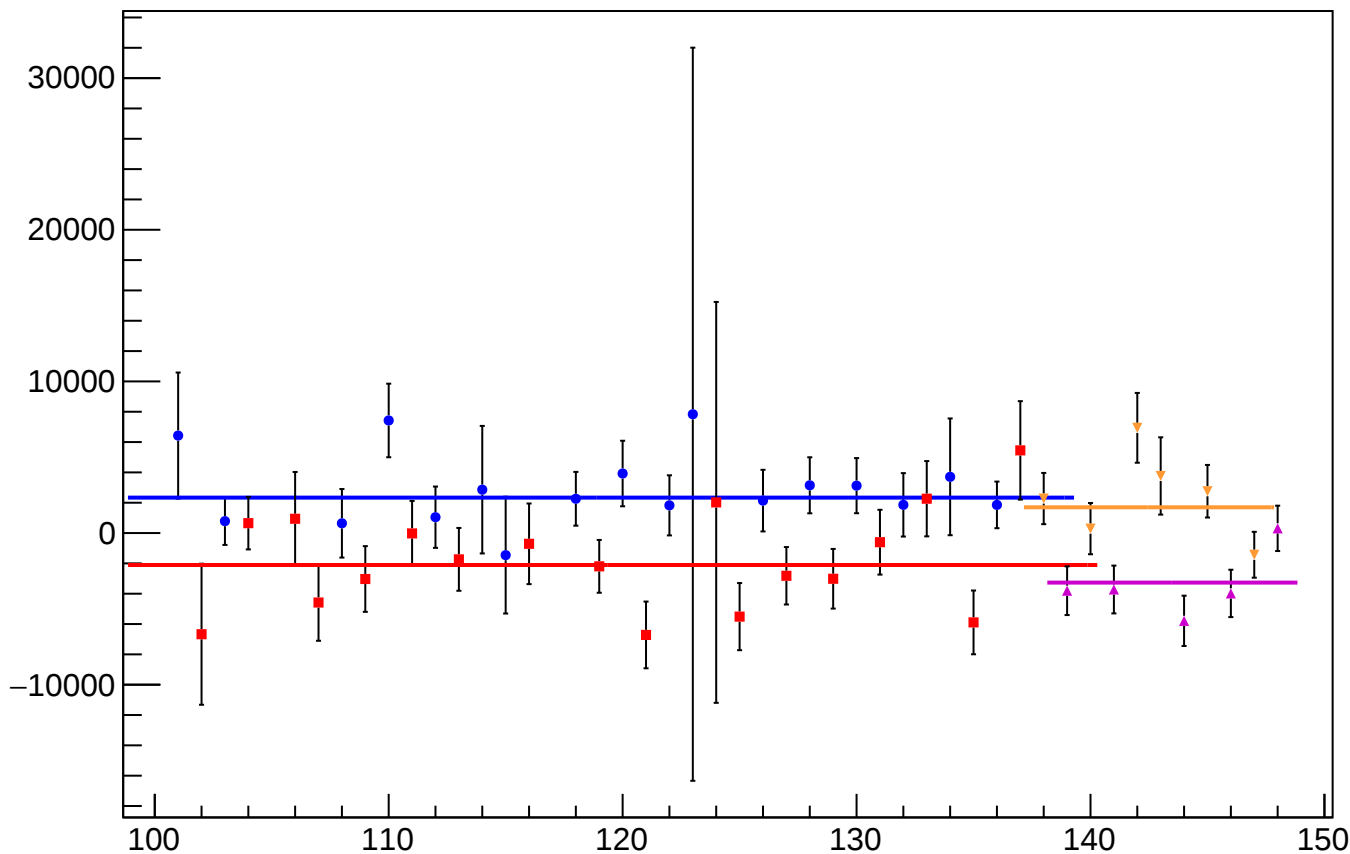
Left In:  $4187.660 \pm 1.465$   $\chi^2/\text{NDF}: 44107.0/4$

+ sign  $4314.167 \pm 0.941$   $\chi^2/\text{NDF}: 860244.8/22$

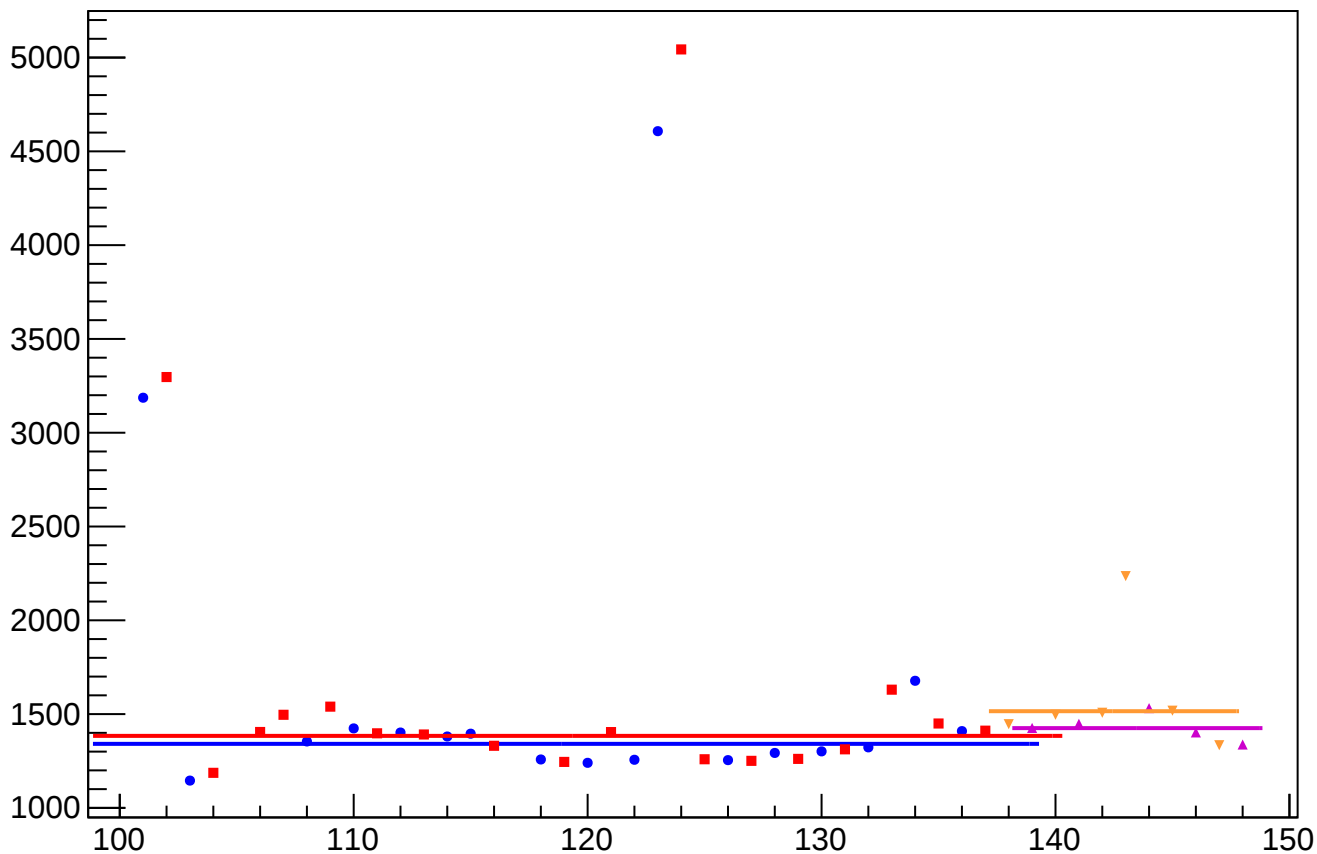
All:  $4279.626 \pm 0.659$   $\chi^2/\text{NDF}: 1656062.5/45$

- sign  $4246.322 \pm 0.924$   $\chi^2/\text{NDF}: 793170.6/22$

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



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



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

Left Out: 1515.442 $\pm$ 0.525  $\chi^2$ /NDF:192040.9/5

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

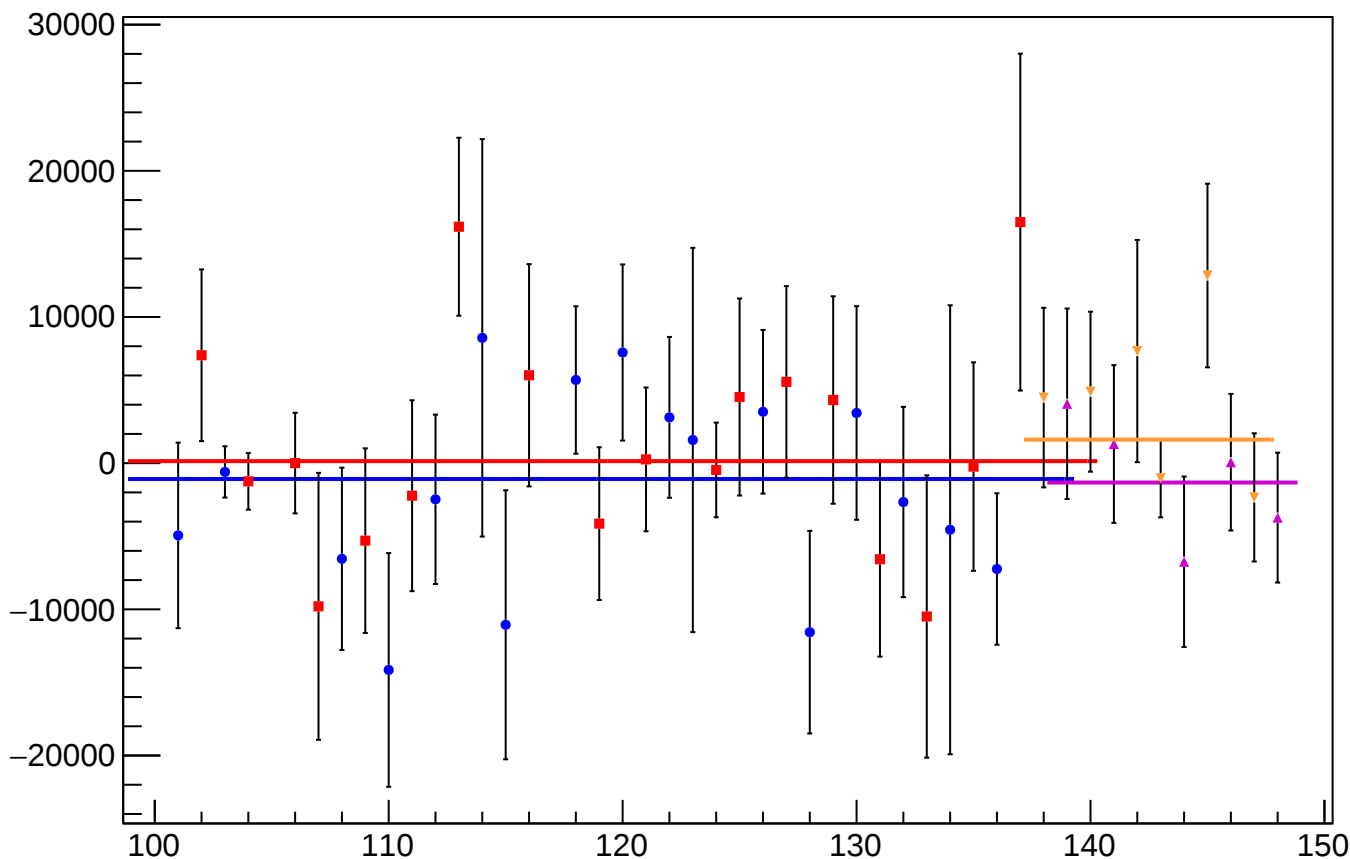
Left In: 1425.245 $\pm$ 0.498  $\chi^2$ /NDF:15975.5/4

+ sign 1400.279 $\pm$ 0.305  $\chi^2$ /NDF: 769006.9/22

All: 1399.723 $\pm$ 0.215  $\chi^2$ /NDF: 1383170.9/45

- sign 1399.176 $\pm$ 0.303  $\chi^2$ /NDF: 614157.5/22

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



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

Left Out: 1611.031+/-1843.114  $\chi^2/\text{NDF}$ : 6.2/5

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

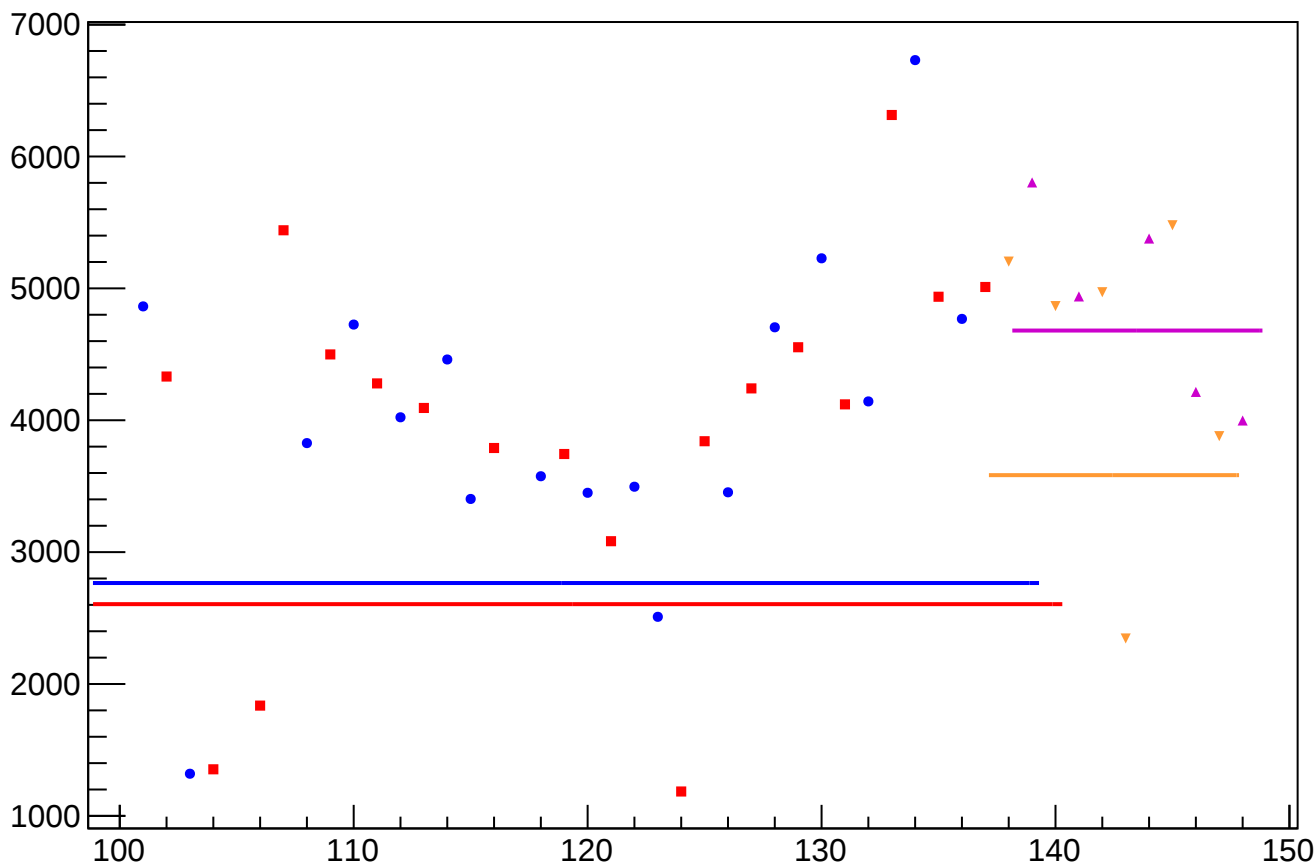
Left In: -1324.410+/-2332.720  $\chi^2/\text{NDF}$ : 2.2/4

+ sign -268.004+/-1012.894  $\chi^2/\text{NDF}$ : 22.7/22

All: -203.725+/-717.484  $\chi^2/\text{NDF}$ : 43.2/45

- sign -138.992+/-1016.467  $\chi^2/\text{NDF}$ : 20.5/22

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



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

Left Out: 3583.718 $\pm$ 1.303  $\chi^2/\text{NDF}$ : 935410.5/5

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

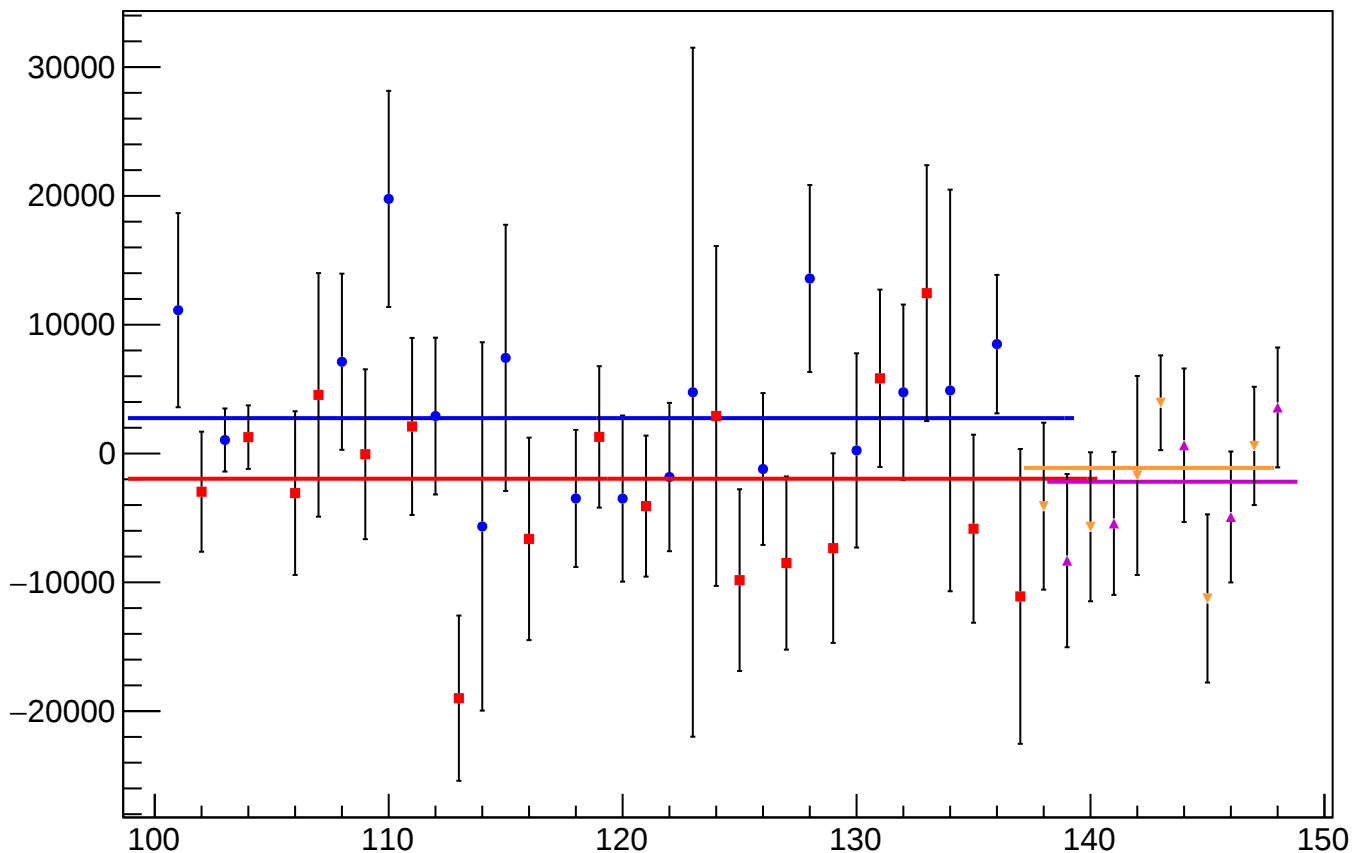
Left In: 4680.208 $\pm$ 1.649  $\chi^2/\text{NDF}$ : 159614.0/4

+ sign 3012.776 $\pm$ 0.716  $\chi^2/\text{NDF}$ : 4149448.2/22

All: 3006.137 $\pm$ 0.507  $\chi^2/\text{NDF}$ : 8913193.3/45

- sign 2999.452 $\pm$ 0.719  $\chi^2/\text{NDF}$ : 4763572.6/22

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



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

Left Out: -1118.100+/-2155.436  $\chi^2/\text{NDF}$ : 5.3/5

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

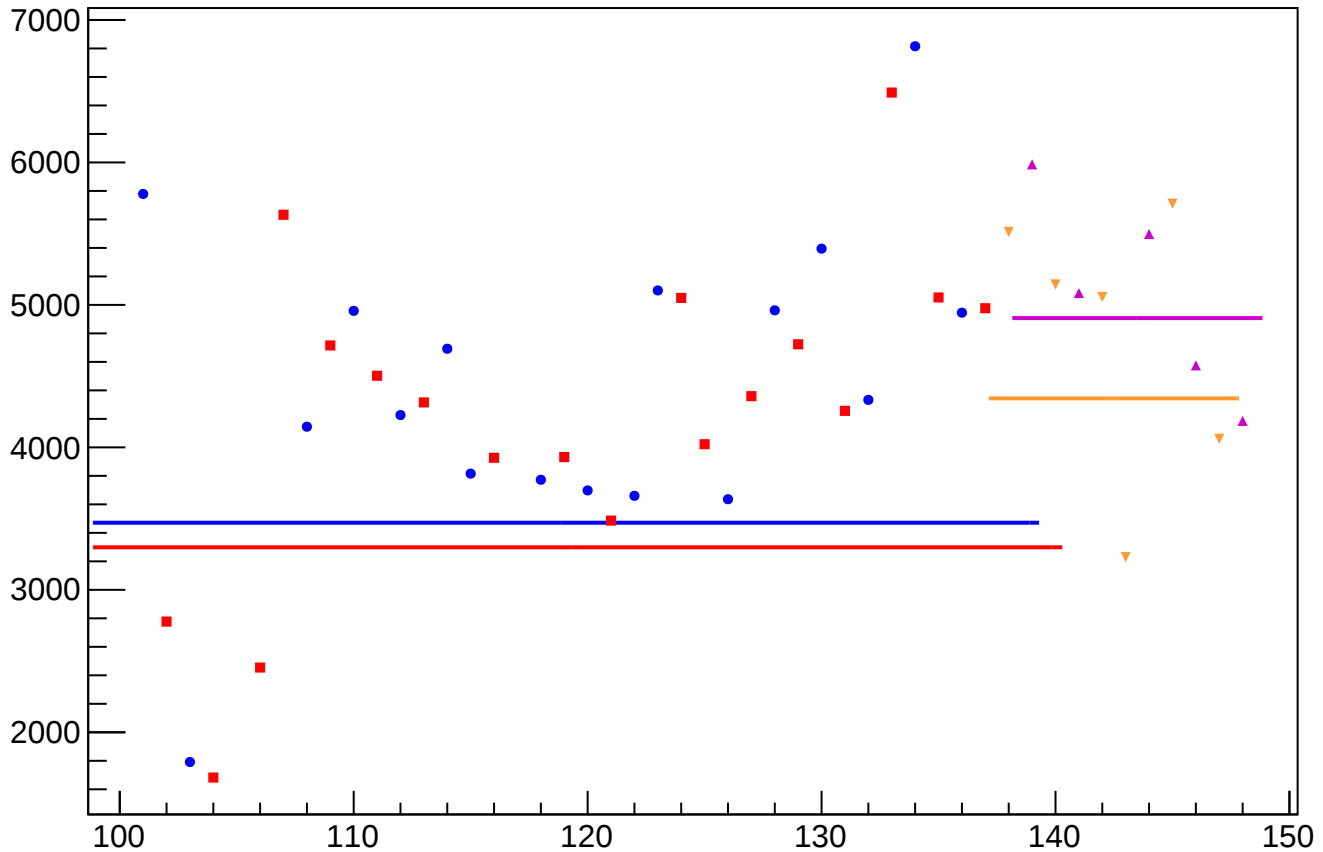
Left In: -2190.908+/-2442.456  $\chi^2/\text{NDF}$ : 3.2/4

+ sign 1547.536+/-1201.180  $\chi^2/\text{NDF}$ : 21.3/22

All: -228.110+/-850.471  $\chi^2/\text{NDF}$ : 46.7/45

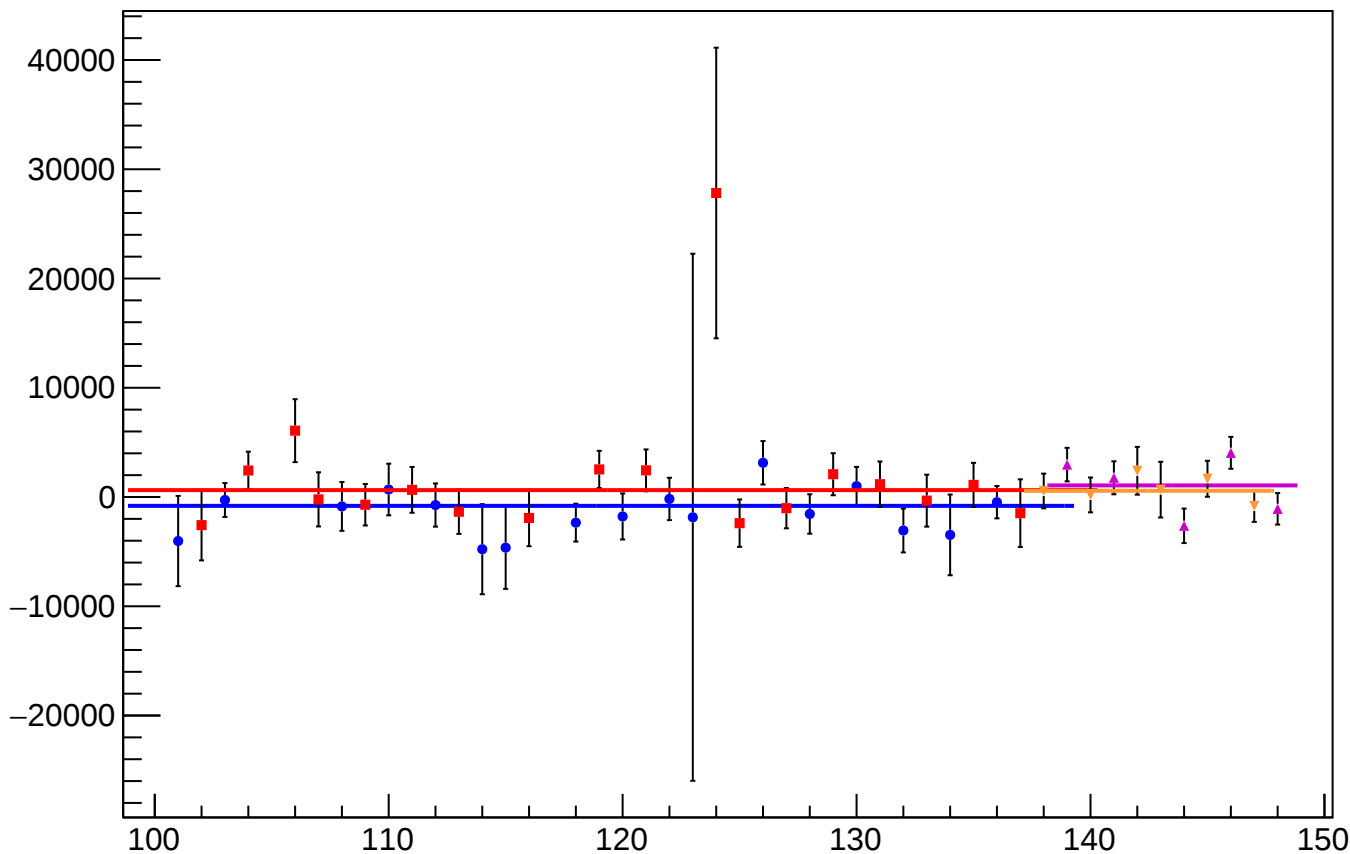
- sign -2013.054+/-1204.321  $\chi^2/\text{NDF}$ : 21.0/22

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



Right In: 3471.154+/-1.023     $\chi^2/\text{NDF}$ : 1767892.8/16    + sign 3742.153+/-0.849     $\chi^2/\text{NDF}$ : 2392926.9/22  
 Left Out: 4343.798+/-1.524     $\chi^2/\text{NDF}$ : 399019.5/5    All: 3713.132+/-0.599     $\chi^2/\text{NDF}$ : 5070701.7/45  
 Right Out: 3298.657+/-0.970     $\chi^2/\text{NDF}$ : 1886021.8/17    - sign 3684.364+/-0.846     $\chi^2/\text{NDF}$ : 2675450.0/22  
 Left In: 4907.441+/-1.727     $\chi^2/\text{NDF}$ : 129756.3/4

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



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

Left Out:  $570.486 \pm 708.508$   $\chi^2/\text{NDF}$ : 2.1/5

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

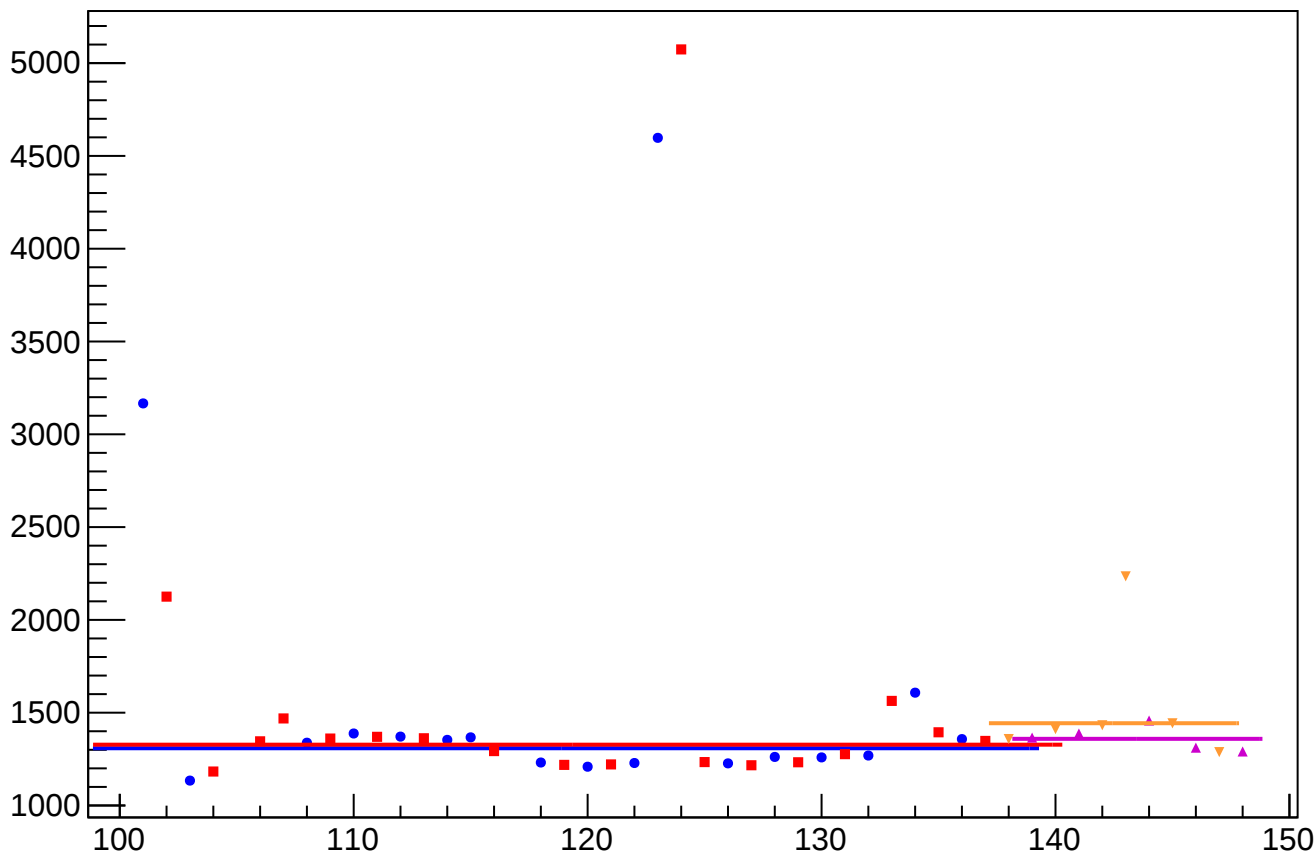
Left In:  $1062.348 \pm 672.002$   $\chi^2/\text{NDF}$ : 13.6/4

+ sign  $-328.260 \pm 418.260$   $\chi^2/\text{NDF}$ : 15.8/22

All:  $243.933 \pm 292.328$   $\chi^2/\text{NDF}$ : 51.9/45

- sign  $790.355 \pm 408.732$   $\chi^2/\text{NDF}$ : 32.5/22

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



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

Left Out: 1443.255 $\pm$ 0.501  $\chi^2$ /NDF:222315.1/5

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

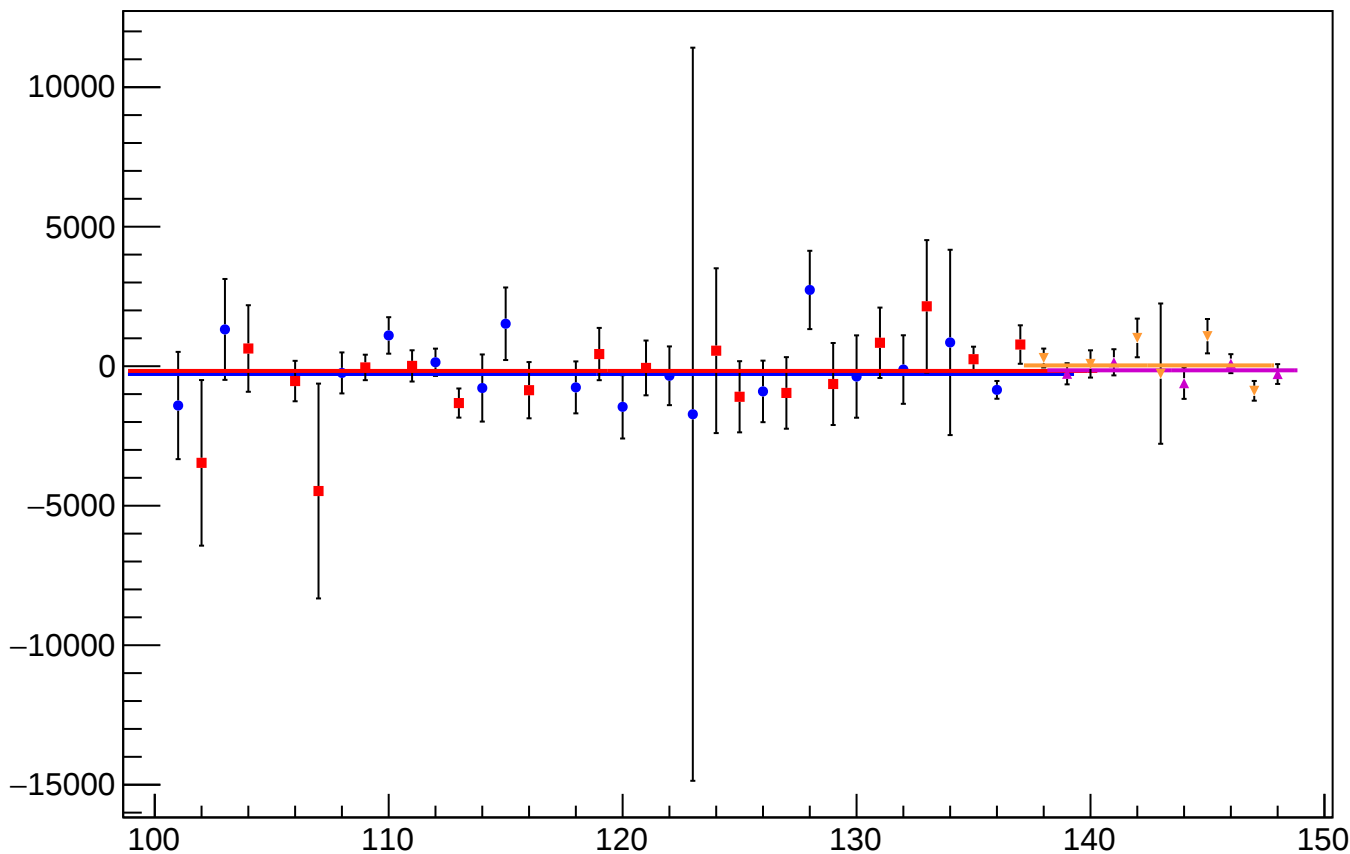
Left In: 1359.099 $\pm$ 0.475  $\chi^2$ /NDF:15138.4/4

+ sign 1355.375 $\pm$ 0.296  $\chi^2$ /NDF: 776088.7/22

All: 1347.143 $\pm$ 0.207  $\chi^2$ /NDF: 1152832.8/45

- sign 1339.282 $\pm$ 0.289  $\chi^2$ /NDF: 375229.5/22

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



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

Left Out:  $28.833 \pm 196.808$   $\chi^2/\text{NDF}$ : 12.2/5

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

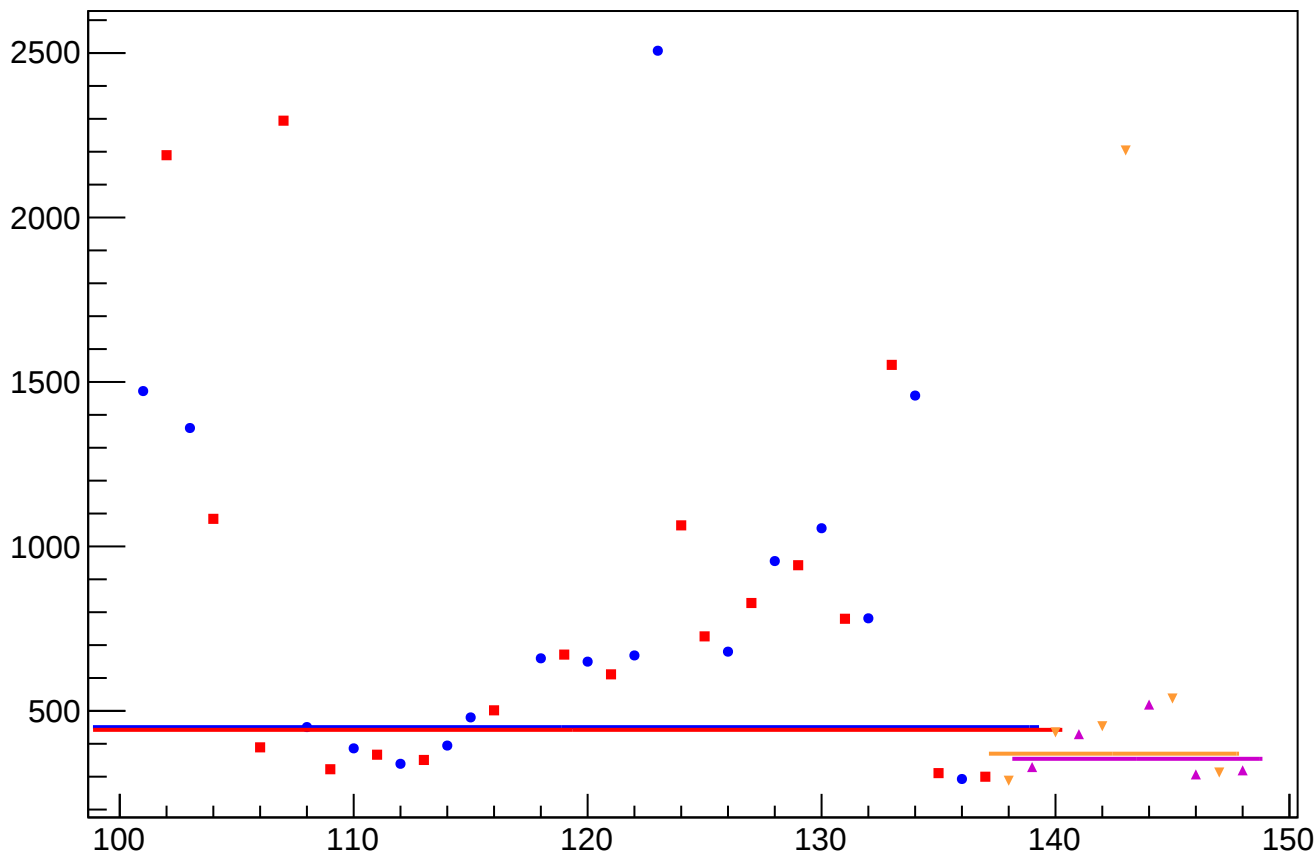
Left In:  $-147.613 \pm 178.803$   $\chi^2/\text{NDF}$ : 1.8/4

+ sign  $-123.915 \pm 139.627$   $\chi^2/\text{NDF}$ : 31.5/22

All:  $-141.937 \pm 95.537$   $\chi^2/\text{NDF}$ : 47.6/45

- sign  $-157.801 \pm 131.004$   $\chi^2/\text{NDF}$ : 16.2/22

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



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

Left Out: 369.905+/-0.139  $\chi^2/\text{NDF}$ : 1447302.4/5

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

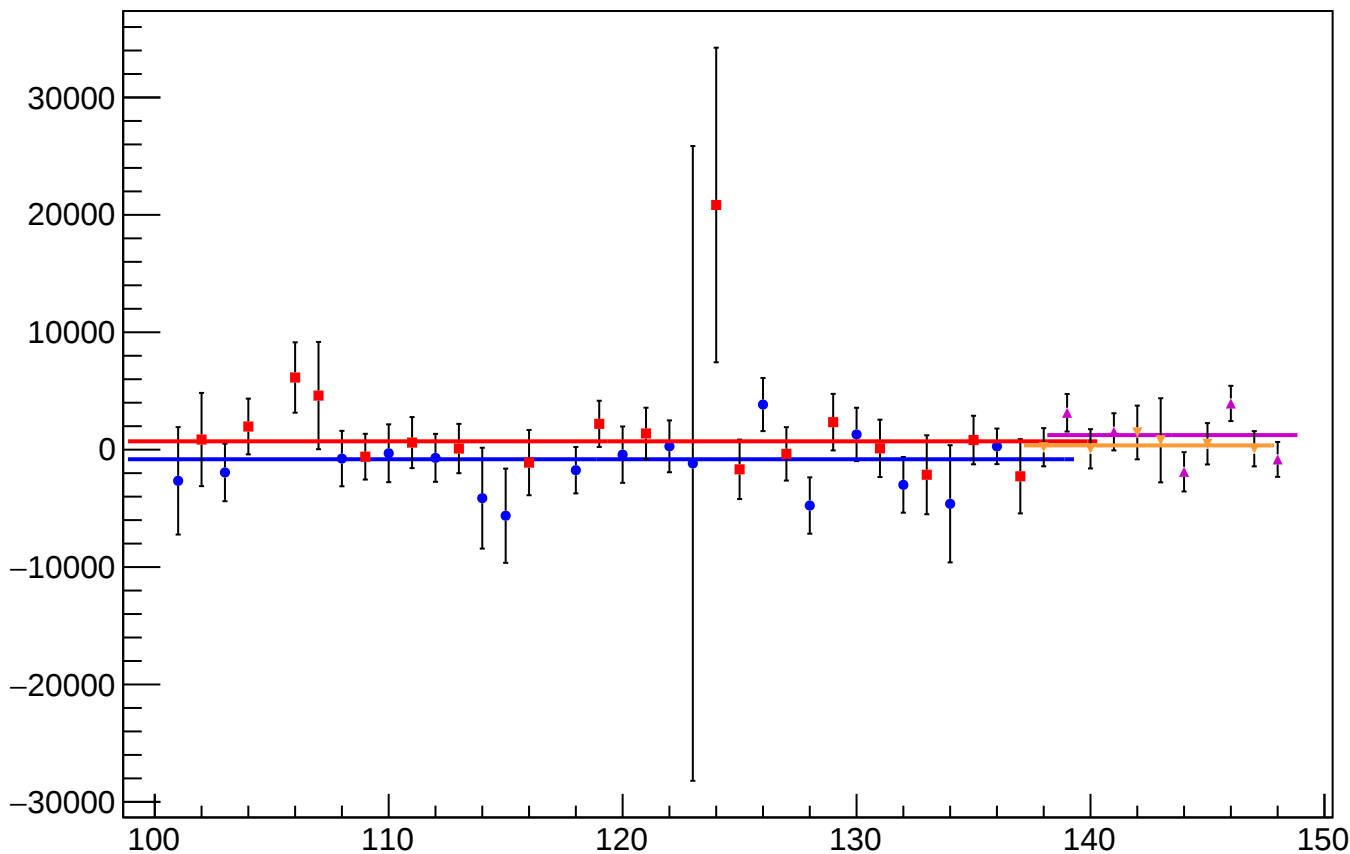
Left In: 354.287+/-0.126  $\chi^2/\text{NDF}$ : 290064.6/4

+ sign 409.982+/-0.099  $\chi^2/\text{NDF}$ : 4612015.7/22

All: 402.059+/-0.068  $\chi^2/\text{NDF}$ : 8507320.4/45

- sign 395.085+/-0.093  $\chi^2/\text{NDF}$ : 3883198.0/22

# 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:  $363.368 \pm 751.273$   $\chi^2/\text{NDF}$ : 0.3/5

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

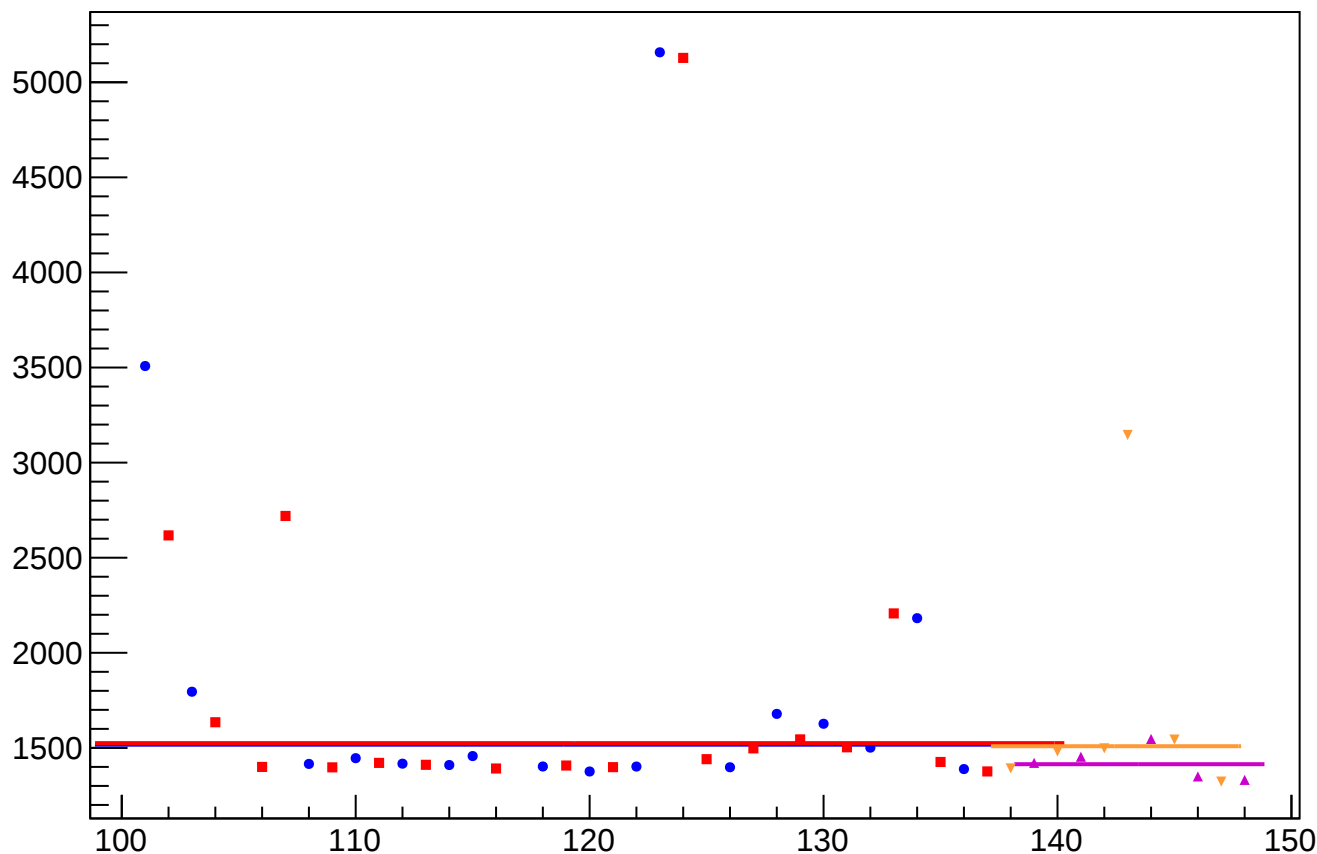
Left In:  $1241.567 \pm 699.582$   $\chi^2/\text{NDF}$ : 10.1/4

+ sign  $-356.313 \pm 469.379$   $\chi^2/\text{NDF}$ : 14.5/22

All:  $310.708 \pm 326.220$   $\chi^2/\text{NDF}$ : 40.3/45

- sign  $933.941 \pm 453.711$   $\chi^2/\text{NDF}$ : 21.9/22

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



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

Left Out: 1508.772+/-0.531  $\chi^2/\text{NDF}$ : 459642.4/5

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

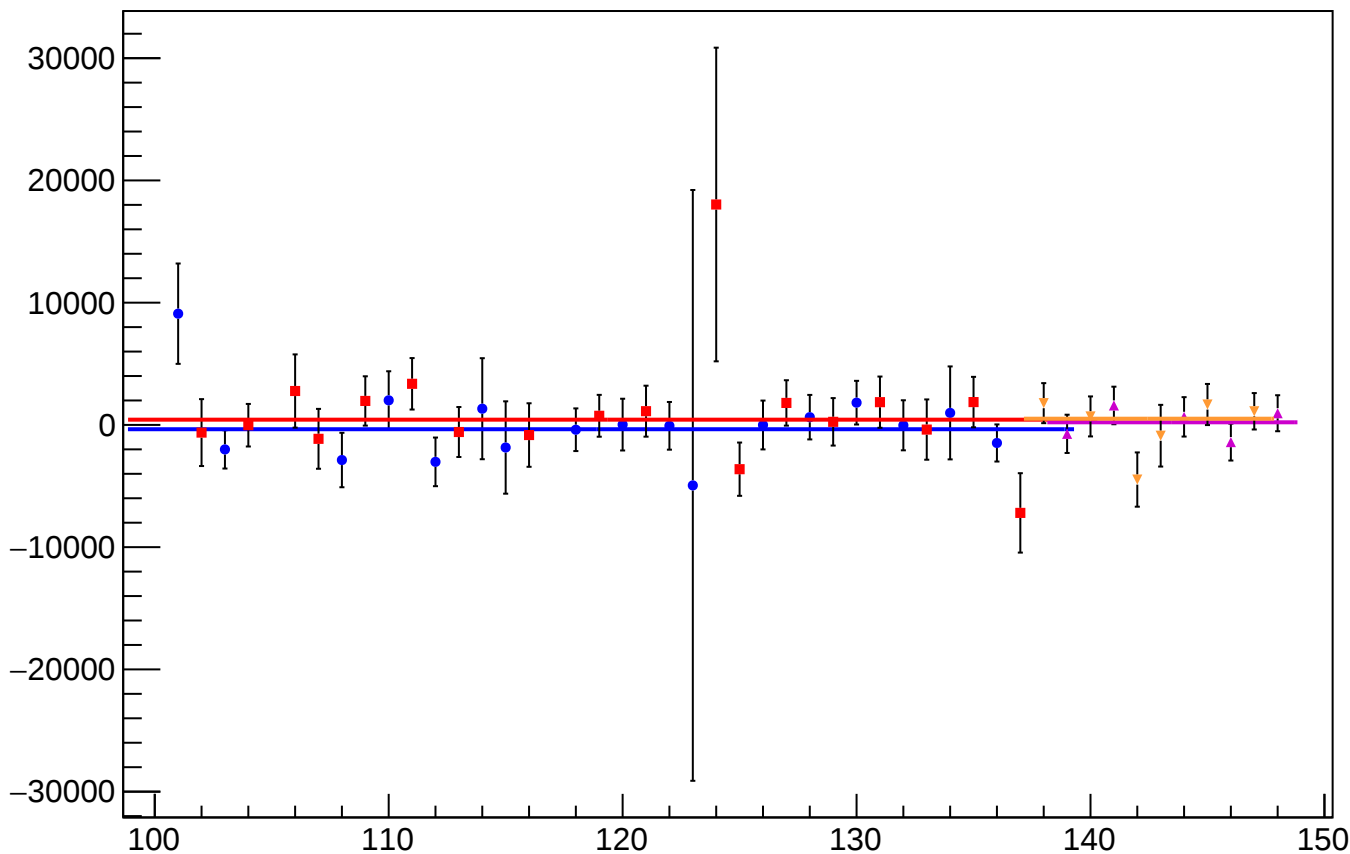
Left In: 1414.268+/-0.495  $\chi^2/\text{NDF}$ : 23649.1/4

+ sign 1513.748+/-0.332  $\chi^2/\text{NDF}$ : 1000825.9/22

All: 1495.517+/-0.231  $\chi^2/\text{NDF}$ : 1631324.5/45

- sign 1478.483+/-0.321  $\chi^2/\text{NDF}$ : 624662.1/22

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:  $507.907 \pm 723.425$   $\chi^2/\text{NDF}$ : 6.6/5

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

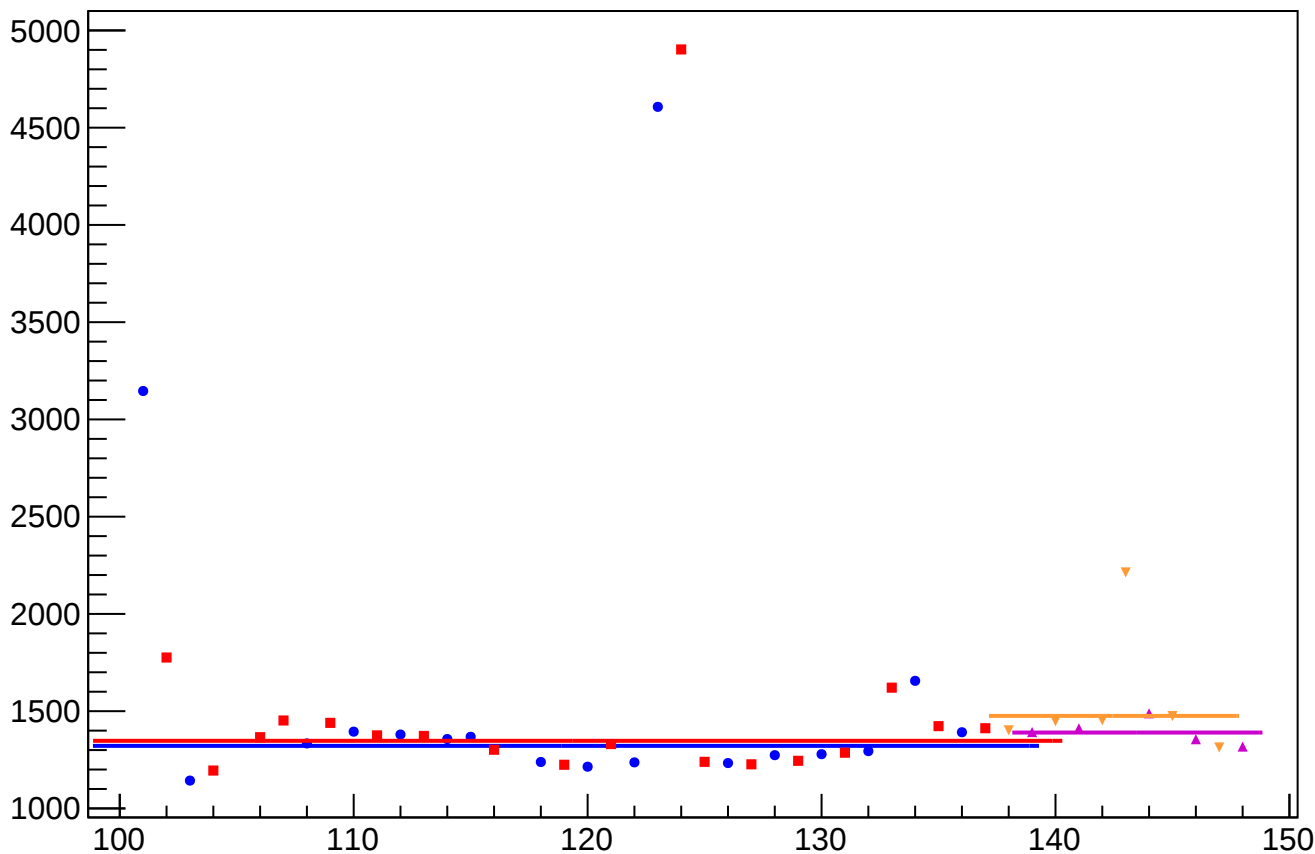
Left In:  $213.874 \pm 687.222$   $\chi^2/\text{NDF}$ : 2.7/4

+ sign  $-57.336 \pm 424.011$   $\chi^2/\text{NDF}$ : 20.9/22

All:  $150.458 \pm 296.895$   $\chi^2/\text{NDF}$ : 41.0/45

- sign  $350.333 \pm 415.853$   $\chi^2/\text{NDF}$ : 19.6/22

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



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

Left Out: 1475.731+/-0.512  $\chi^2/\text{NDF}$ :199501.1/5

+ sign 1374.616+/-0.300  $\chi^2/\text{NDF}$ : 761266.0/22

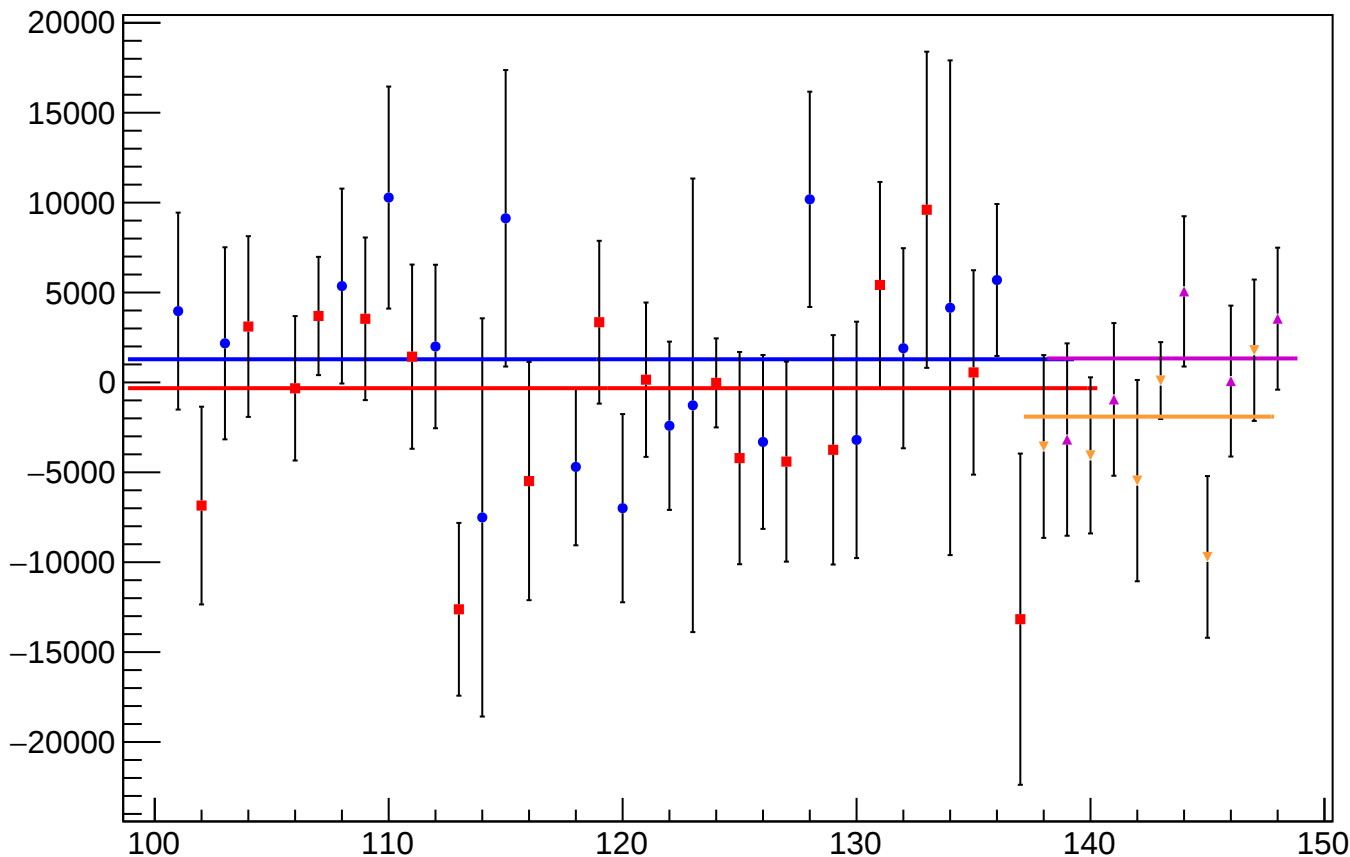
Right Out: 1347.646+/-0.369  $\chi^2/\text{NDF}$ : 286301.2/17

All: 1368.791+/-0.210  $\chi^2/\text{NDF}$ : 1066918.0/45

- sign 1363.191+/-0.294  $\chi^2/\text{NDF}$ : 304911.6/22

Left In: 1390.129+/-0.486  $\chi^2/\text{NDF}$ :13764.0/4

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: -1903.080+/-1479.886  $\chi^2/\text{NDF}$ : 5.5/5

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

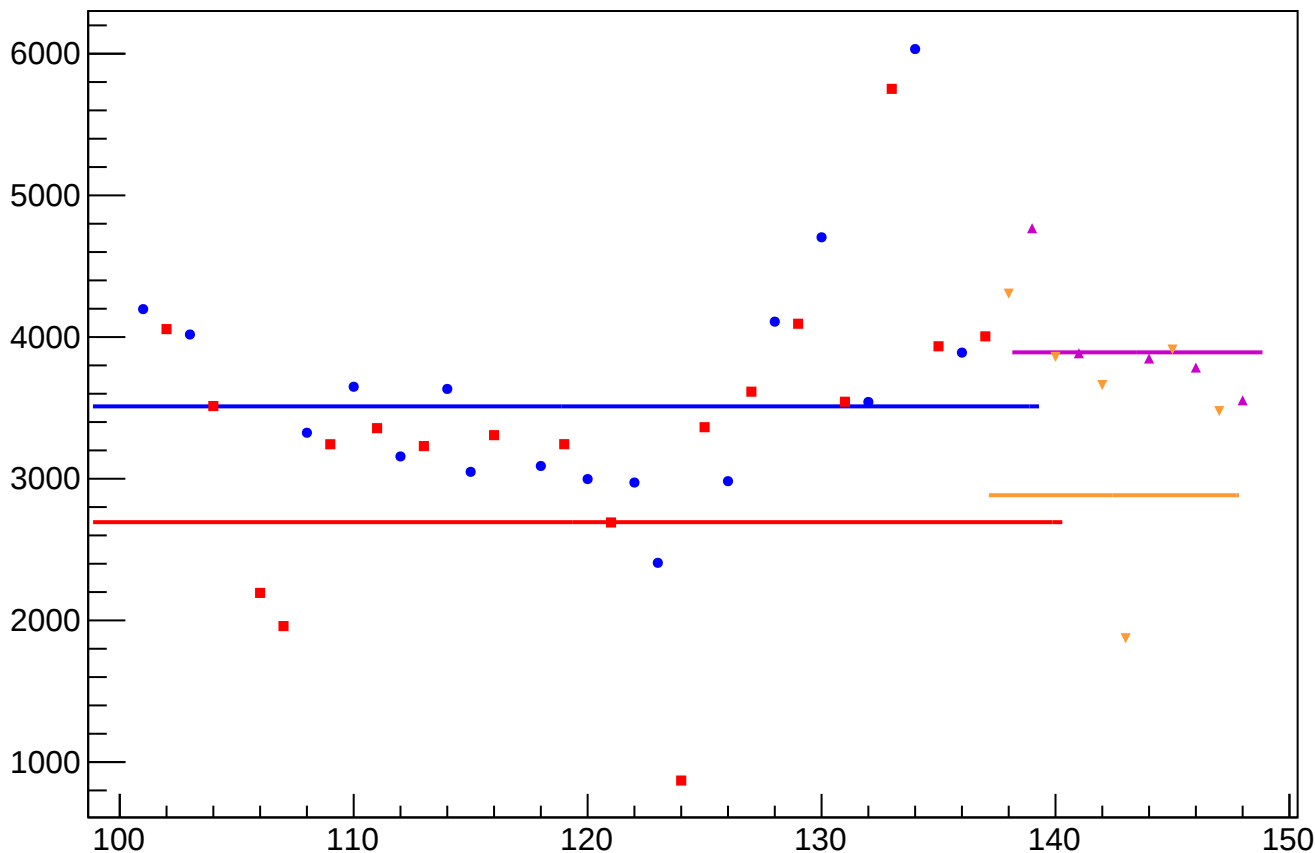
Left In: 1332.631+/-1929.688  $\chi^2/\text{NDF}$ : 2.2/4

+ sign -191.716+/-1007.648  $\chi^2/\text{NDF}$ : 22.3/22

All: -45.363+/-694.787  $\chi^2/\text{NDF}$ : 42.7/45

- sign 87.279+/-959.290  $\chi^2/\text{NDF}$ : 20.3/22

# 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: 2883.788 $\pm$ 1.046  $\chi^2$ /NDF: 892566.6/5

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

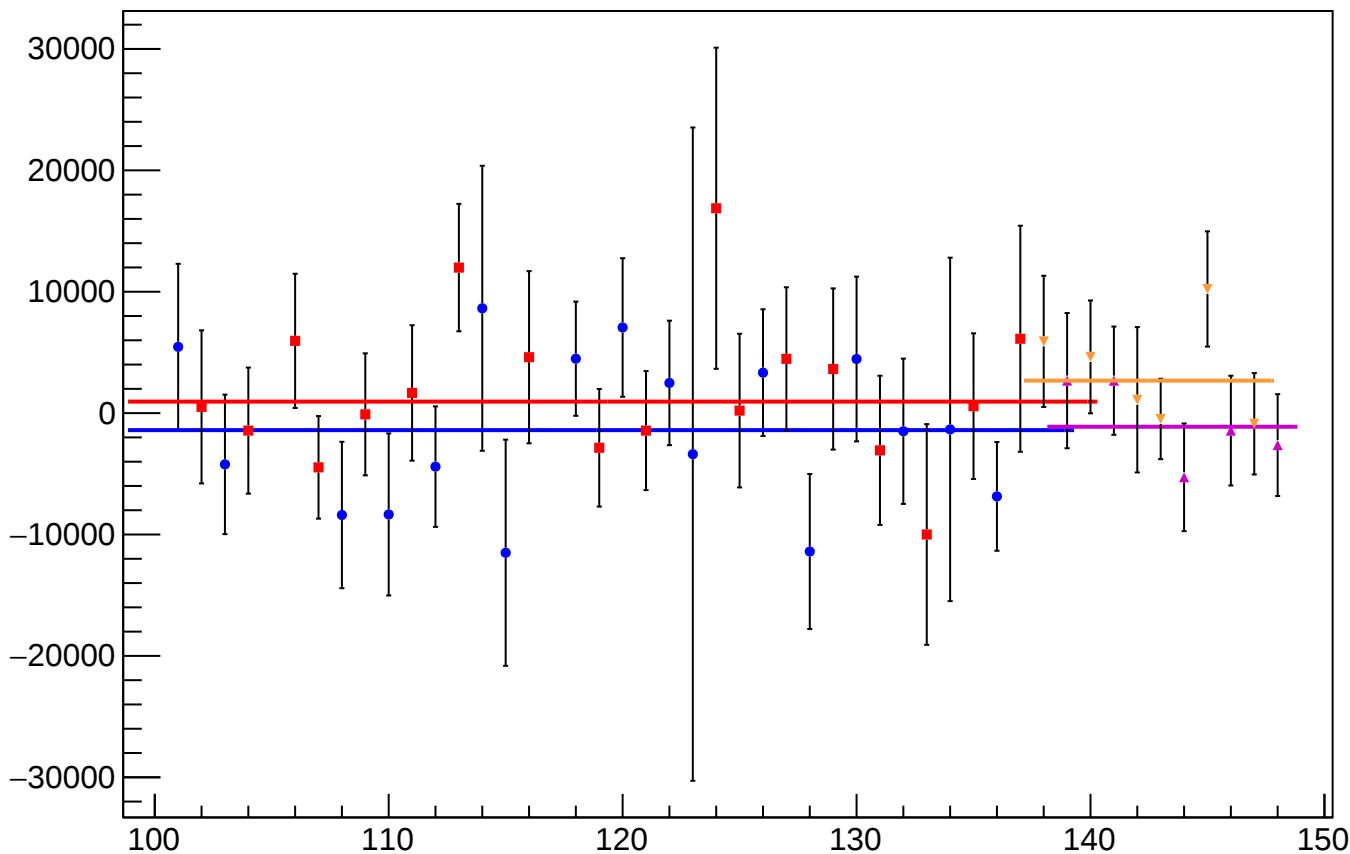
Left In: 3892.150 $\pm$ 1.364  $\chi^2$ /NDF: 69870.5/4

+ sign 3220.105 $\pm$ 0.713  $\chi^2$ /NDF: 1429194.6/22

All: 3099.254 $\pm$ 0.491  $\chi^2$ /NDF: 4260724.9/45

- sign 2989.725 $\pm$ 0.678  $\chi^2$ /NDF: 2776689.2/22

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



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

Left Out: 2676.825+/-1821.725  $\chi^2/\text{NDF}$ : 4.8/5

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

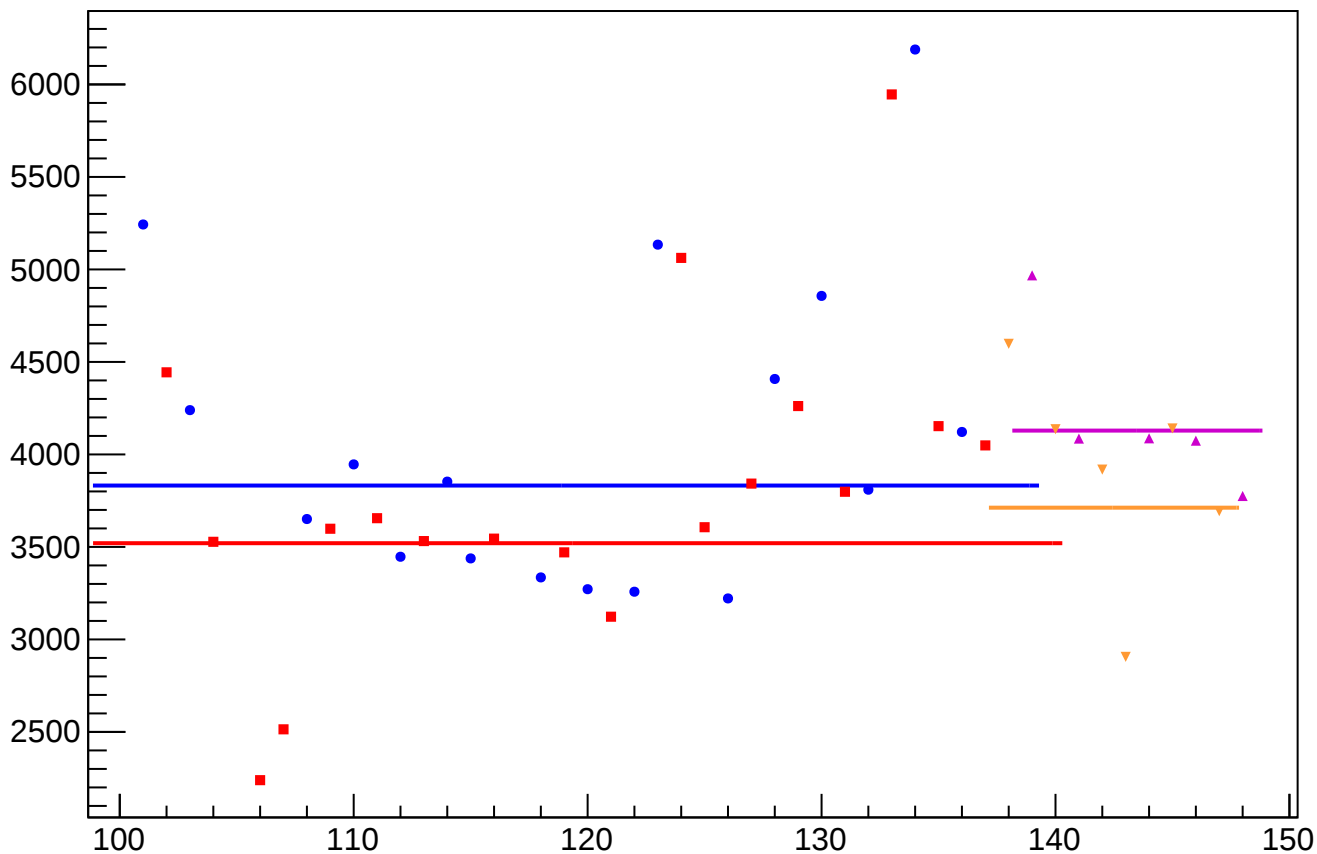
Left In: -1122.099+/-2045.147  $\chi^2/\text{NDF}$ : 2.2/4

+ sign 251.791+/-1159.877  $\chi^2/\text{NDF}$ : 23.5/22

All: 275.473+/-815.018  $\chi^2/\text{NDF}$ : 38.9/45

- sign 298.570+/-1145.476  $\chi^2/\text{NDF}$ : 15.4/22

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



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

Left Out: 3712.195+/-1.288  $\chi^2/\text{NDF}$ : 207708.4/5

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

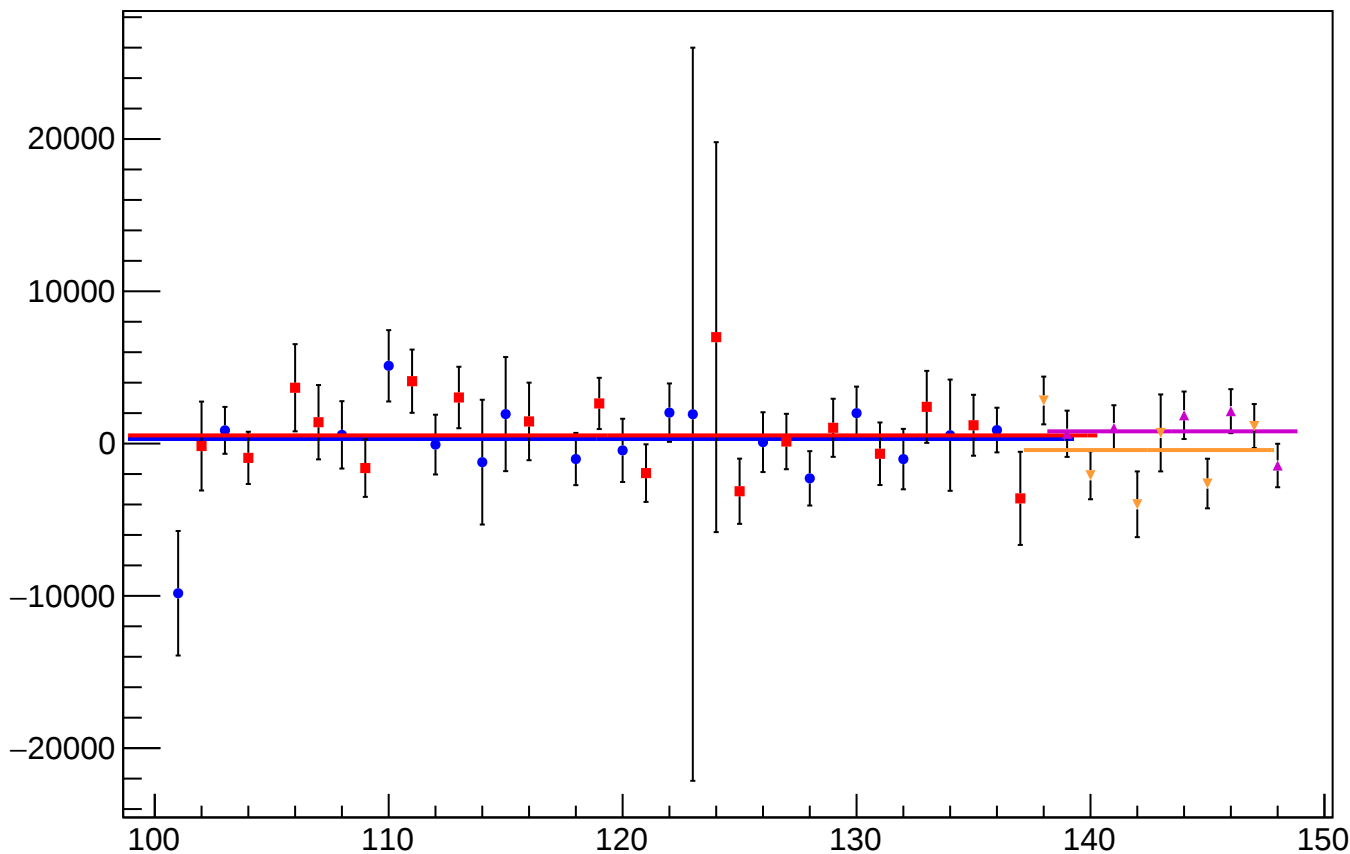
Left In: 4128.872+/-1.446  $\chi^2/\text{NDF}$ : 60215.2/4

+ sign 3783.327+/-0.820  $\chi^2/\text{NDF}$ : 550543.5/22

All: 3745.332+/-0.574  $\chi^2/\text{NDF}$ : 1281397.4/45

- sign 3708.738+/-0.805  $\chi^2/\text{NDF}$ : 726640.5/22

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



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

Left Out: -425.362+/-700.639  $\chi^2/\text{NDF}$ : 11.3/5

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

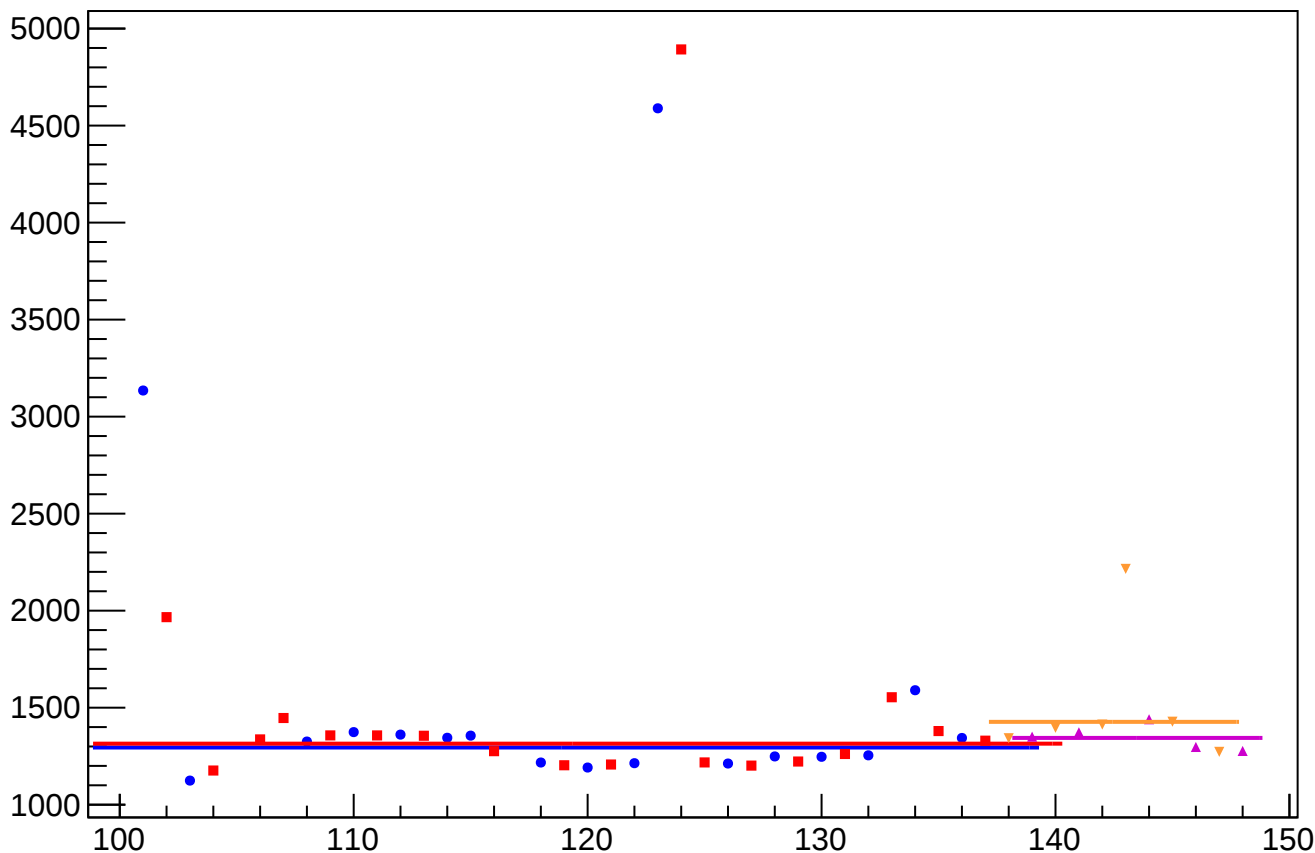
Left In: 803.282+/-664.617  $\chi^2/\text{NDF}$ : 3.8/4

+ sign 48.236+/-413.824  $\chi^2/\text{NDF}$ : 28.1/22

All: 349.127+/-289.062  $\chi^2/\text{NDF}$ : 50.5/45

- sign 635.825+/-403.946  $\chi^2/\text{NDF}$ : 21.4/22

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



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

Left Out: 1426.939+/-0.495  $\chi^2/\text{NDF}$ : 224416.0/5

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

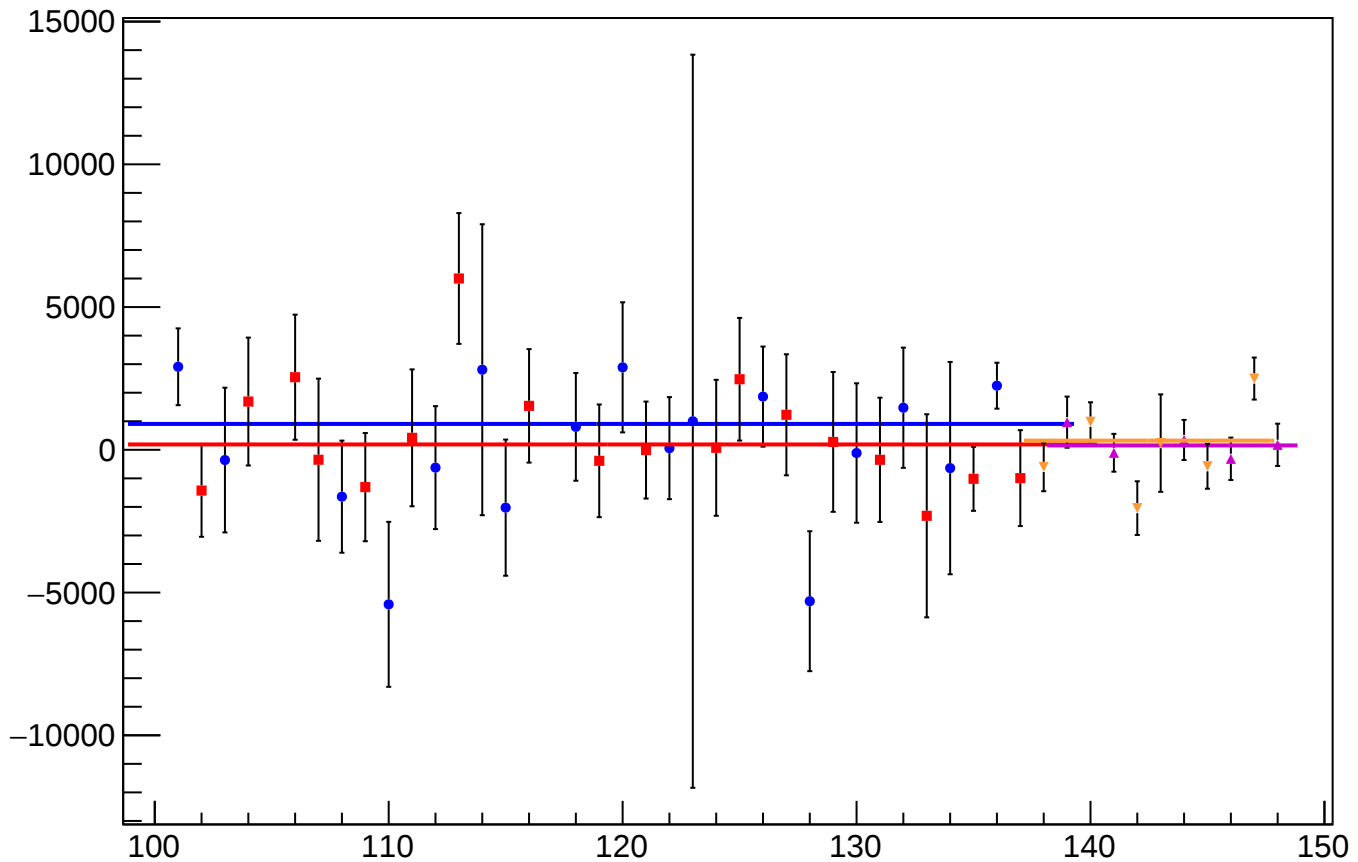
Left In: 1344.182+/-0.470  $\chi^2/\text{NDF}$ : 14896.2/4

+ sign 1340.851+/-0.293  $\chi^2/\text{NDF}$ : 778591.2/22

All: 1333.000+/-0.204  $\chi^2/\text{NDF}$ : 1131232.1/45

- sign 1325.520+/-0.286  $\chi^2/\text{NDF}$ : 351235.3/22

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



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

Left Out: 322.367 $\pm$ 343.704  $\chi^2$ /NDF: 18.5/5

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

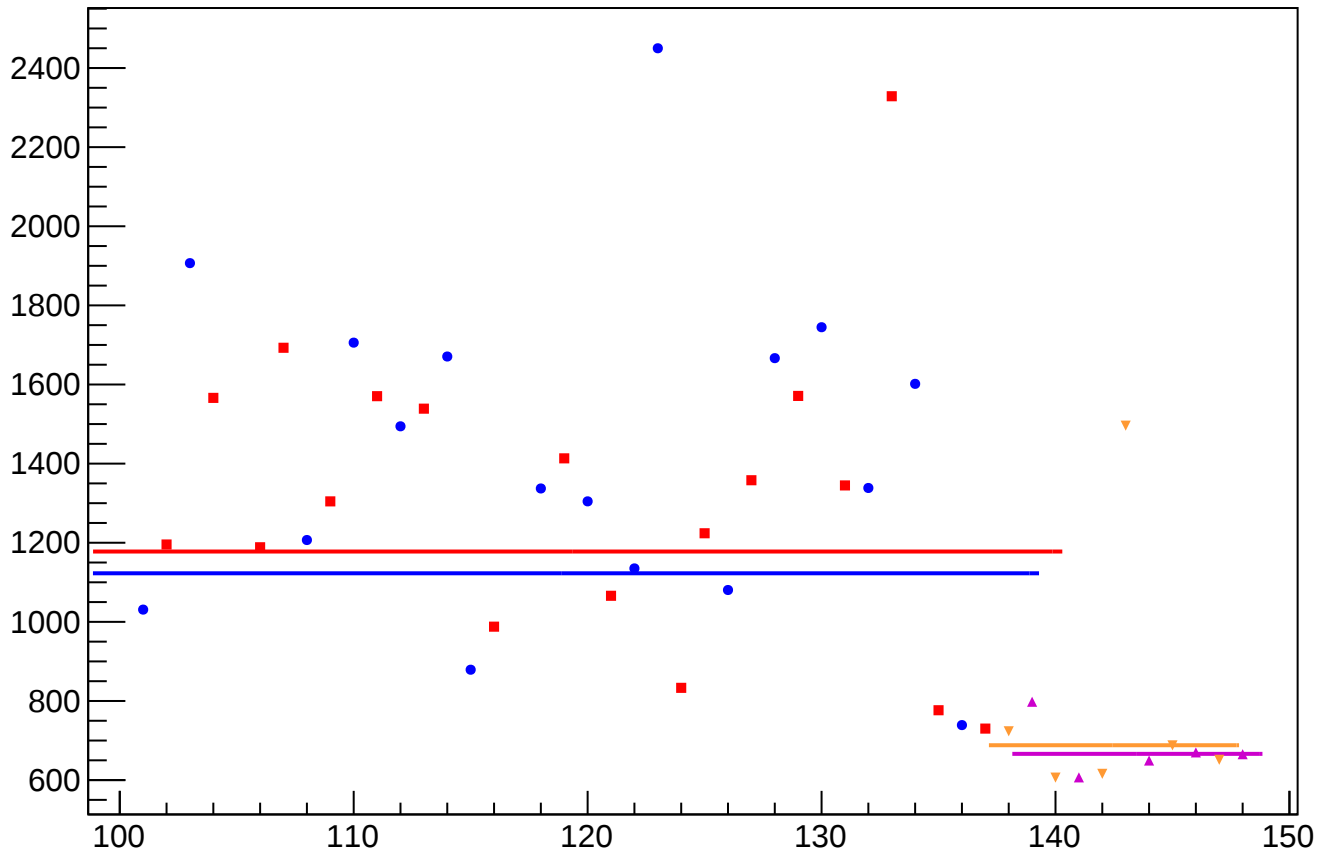
Left In: 154.340 $\pm$ 329.942  $\chi^2$ /NDF: 1.5/4

+ sign 534.157 $\pm$ 274.435  $\chi^2$ /NDF: 41.5/22

All: 346.233 $\pm$ 192.103  $\chi^2$ /NDF: 57.7/45

- sign 165.684 $\pm$ 268.996  $\chi^2$ /NDF: 15.3/22

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: 688.146 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 497068.2/5

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

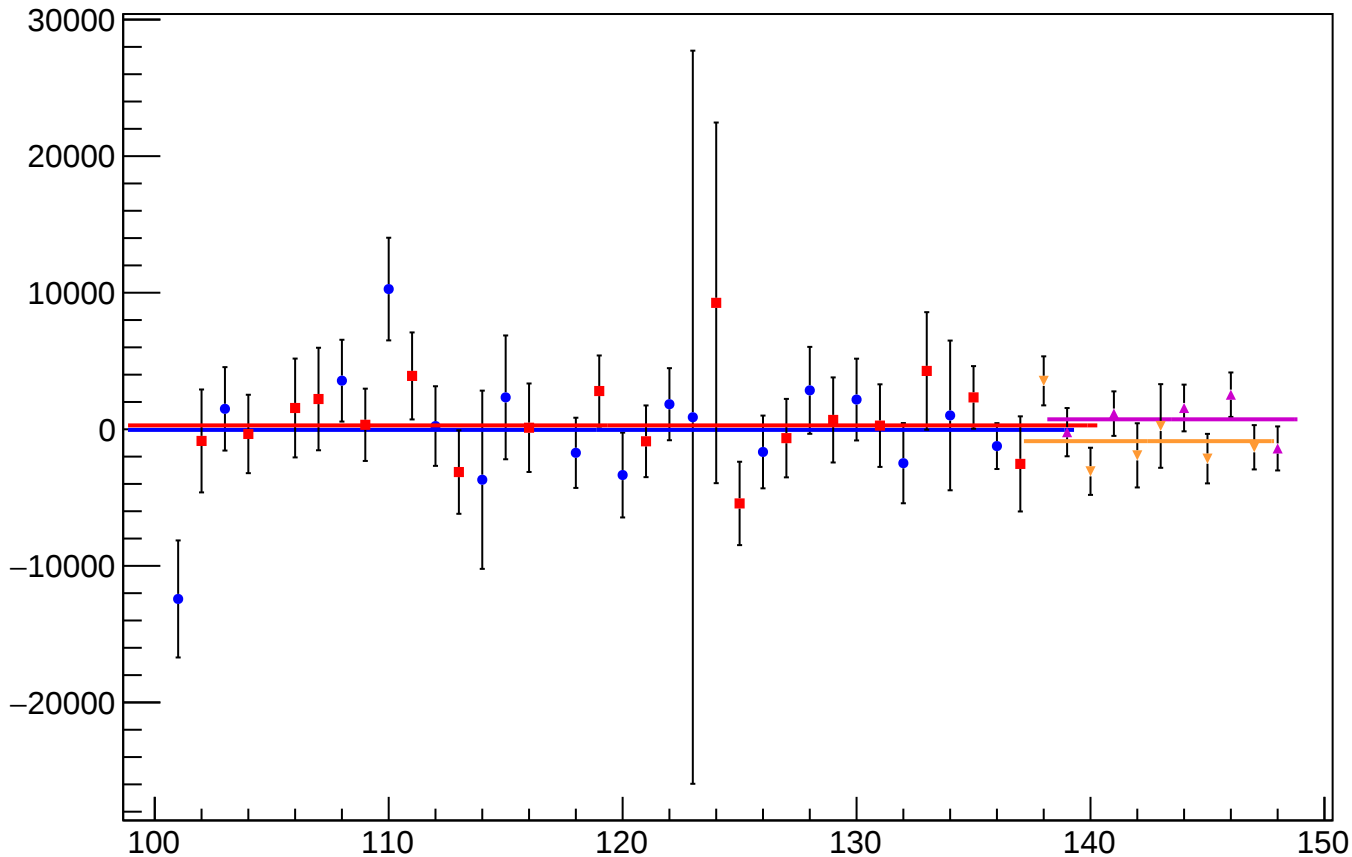
Left In: 666.328 $\pm$ 0.233  $\chi^2/\text{NDF}$ : 60566.3/4

+ sign 845.679 $\pm$ 0.194  $\chi^2/\text{NDF}$ : 2844241.6/22

All: 841.677 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 5538904.8/45

- sign 837.831 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 2693829.1/22

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



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

Left Out: -868.426+/-786.173  $\chi^2/\text{NDF}$ : 8.6/5

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

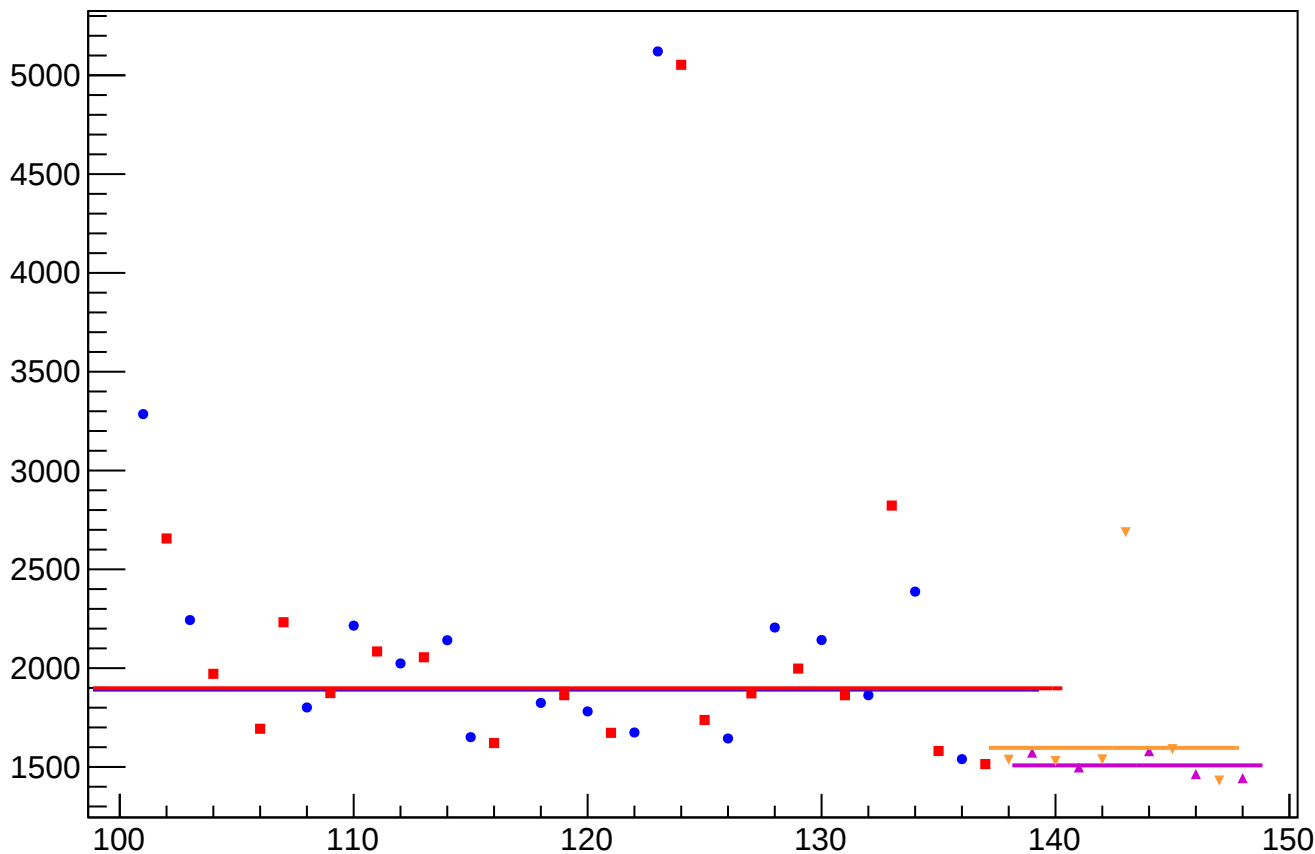
Left In: 730.018+/-745.129  $\chi^2/\text{NDF}$ : 3.6/4

+ sign -435.679+/-541.752  $\chi^2/\text{NDF}$ : 32.4/22

All: 50.737+/-376.424  $\chi^2/\text{NDF}$ : 48.3/45

- sign 504.771+/-523.409  $\chi^2/\text{NDF}$ : 14.3/22

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



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

Left Out: 1596.543+/-0.556  $\chi^2/\text{NDF}$ : 281209.7/5

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

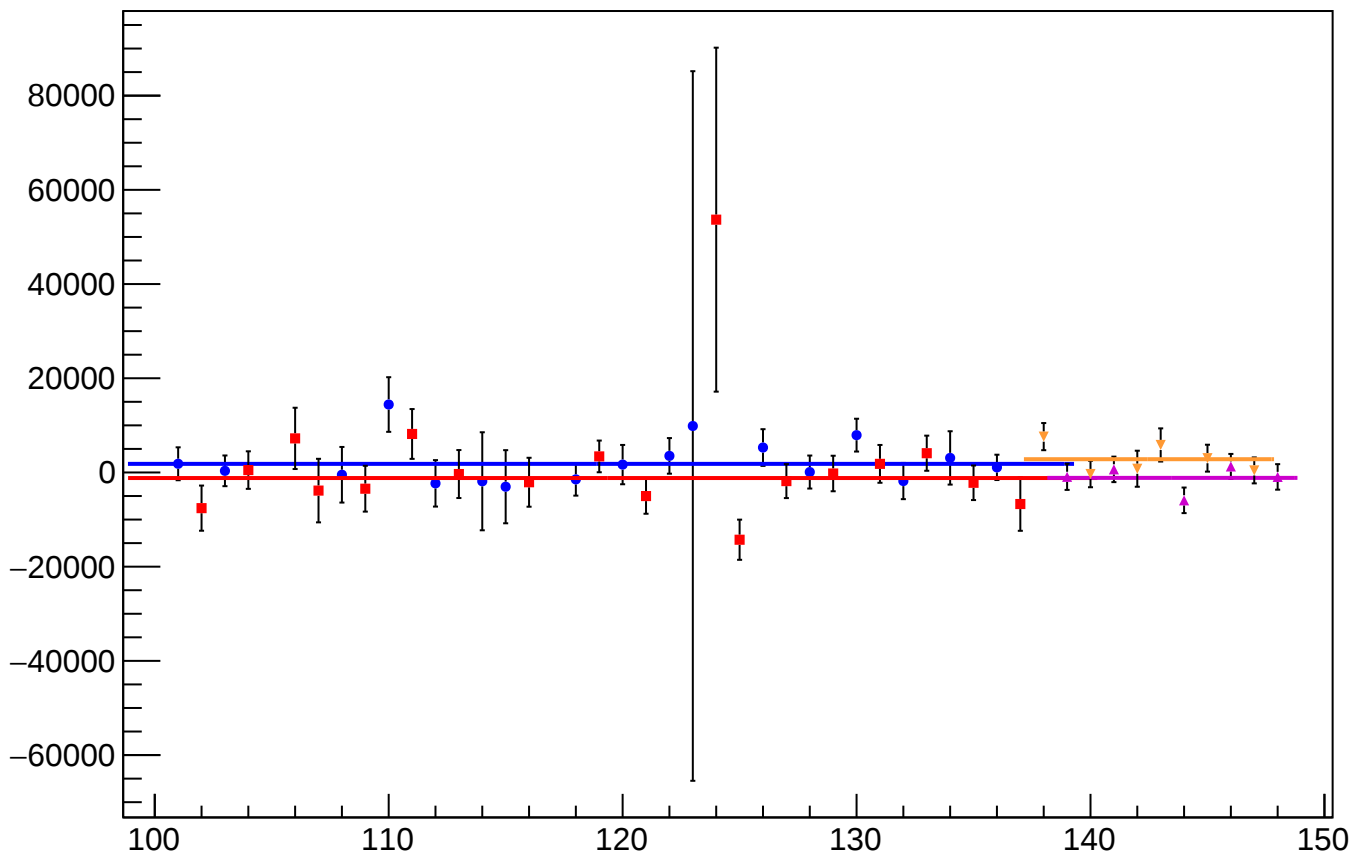
Left In: 1508.124+/-0.527  $\chi^2/\text{NDF}$ : 10941.2/4

+ sign 1751.526+/-0.383  $\chi^2/\text{NDF}$ : 898305.9/22

All: 1727.790+/-0.266  $\chi^2/\text{NDF}$ : 1617756.2/45

- sign 1705.634+/-0.370  $\chi^2/\text{NDF}$ : 712027.4/22

# dit\_asym\_atl1\_mean vs Slug



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

Left Out:  $2814.884 \pm 1240.219$   $\chi^2/\text{NDF}$ : 5.8/5

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

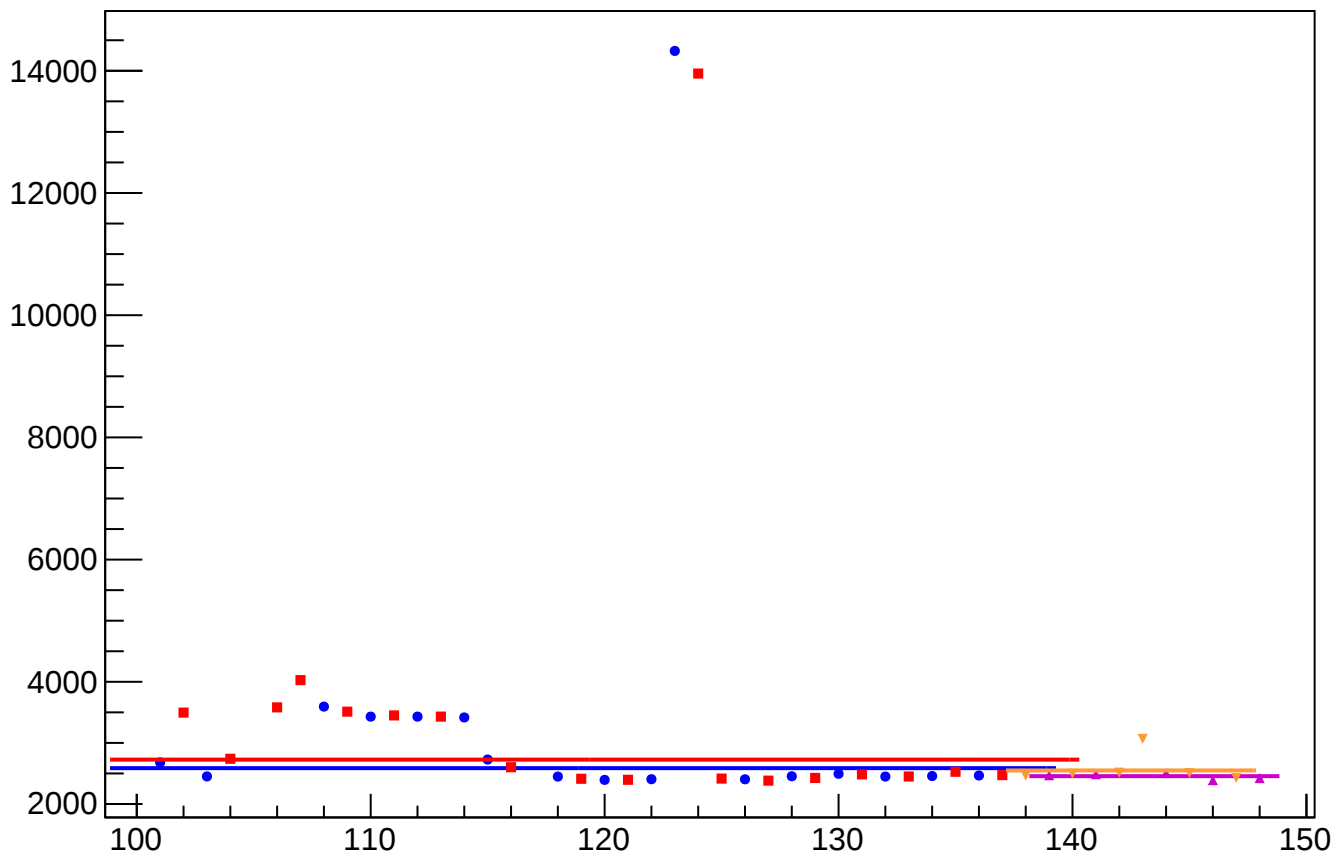
Left In:  $-1149.837 \pm 1212.968$   $\chi^2/\text{NDF}$ : 4.4/4

+ sign  $2219.821 \pm 783.235$   $\chi^2/\text{NDF}$ : 18.7/22

All:  $548.358 \pm 557.543$   $\chi^2/\text{NDF}$ : 57.8/45

- sign  $-1168.683 \pm 793.842$   $\chi^2/\text{NDF}$ : 29.8/22

# dit\_asym\_atl1\_rms vs Slug



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

Left Out: 2549.203+/-0.877  $\chi^2/\text{NDF}$ : 50324.1/5

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

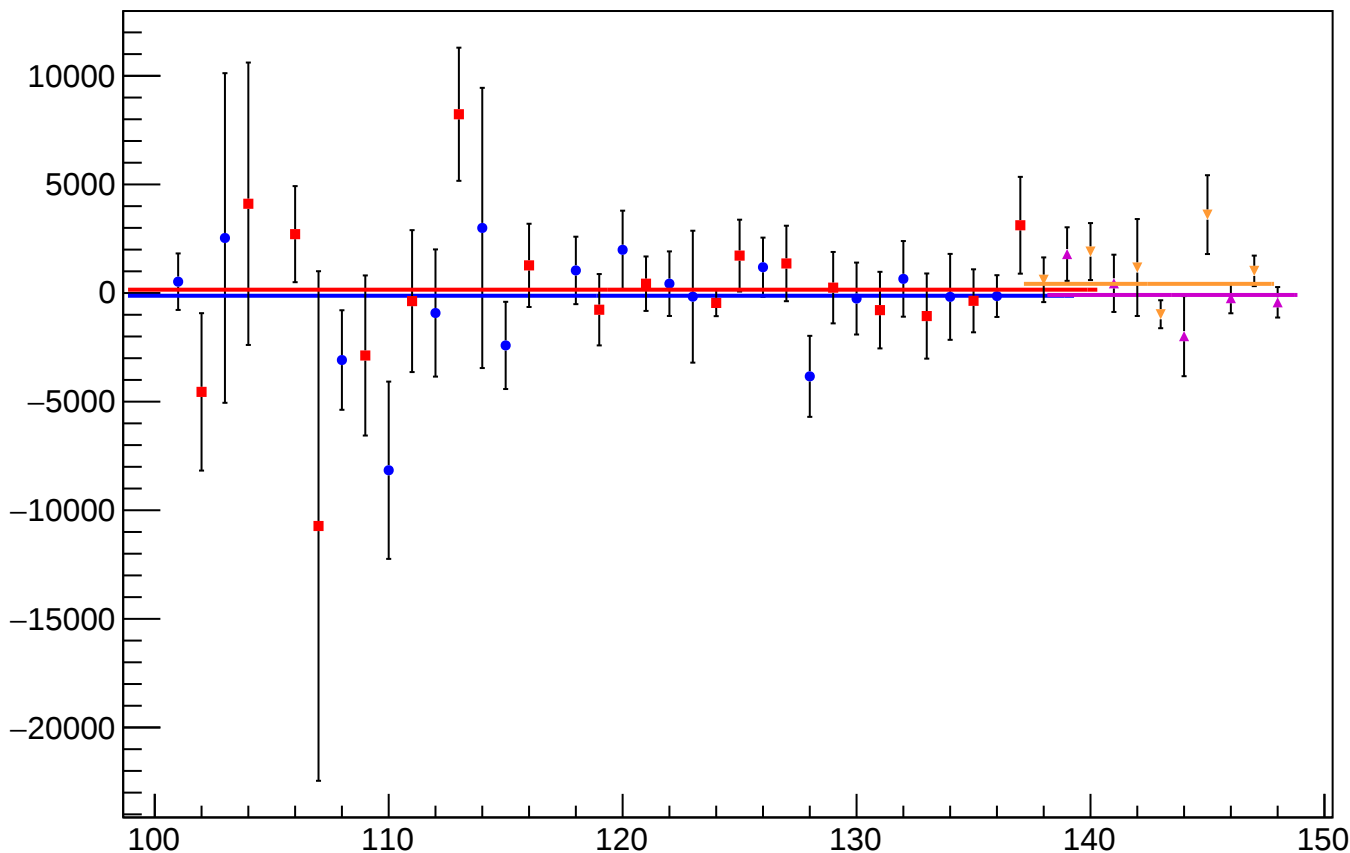
Left In: 2455.567+/-0.858  $\chi^2/\text{NDF}$ : 2525.5/4

+ sign 2571.912+/-0.554  $\chi^2/\text{NDF}$ : 305552.3/22

All: 2590.912+/-0.394  $\chi^2/\text{NDF}$ : 948339.2/45

- sign 2610.429+/-0.561  $\chi^2/\text{NDF}$ : 640401.0/22

# asym\_atl1\_correction\_mean vs Slug



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

Left Out:  $423.017 \pm 393.206$   $\chi^2/\text{NDF}$ : 10.0/5

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

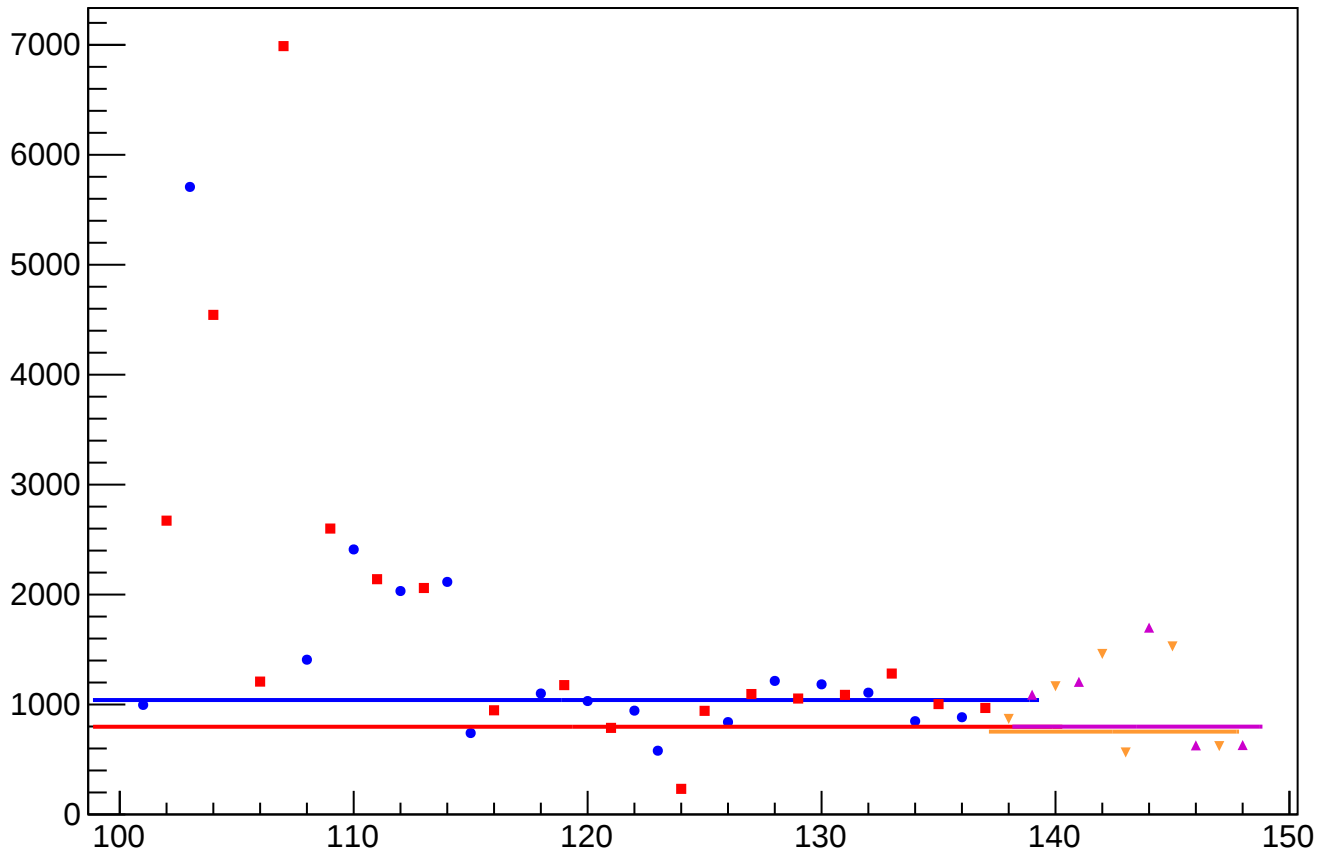
Left In:  $-88.152 \pm 421.873$   $\chi^2/\text{NDF}$ : 3.8/4

+ sign  $174.174 \pm 290.410$   $\chi^2/\text{NDF}$ : 25.5/22

All:  $108.145 \pm 202.579$   $\chi^2/\text{NDF}$ : 47.2/45

- sign  $45.563 \pm 282.725$   $\chi^2/\text{NDF}$ : 21.6/22

# asym\_atl1\_correction\_rms vs Slug



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

Left Out:  $753.576 \pm 0.278$   $\chi^2/\text{NDF}$ : 1032400.2/5

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

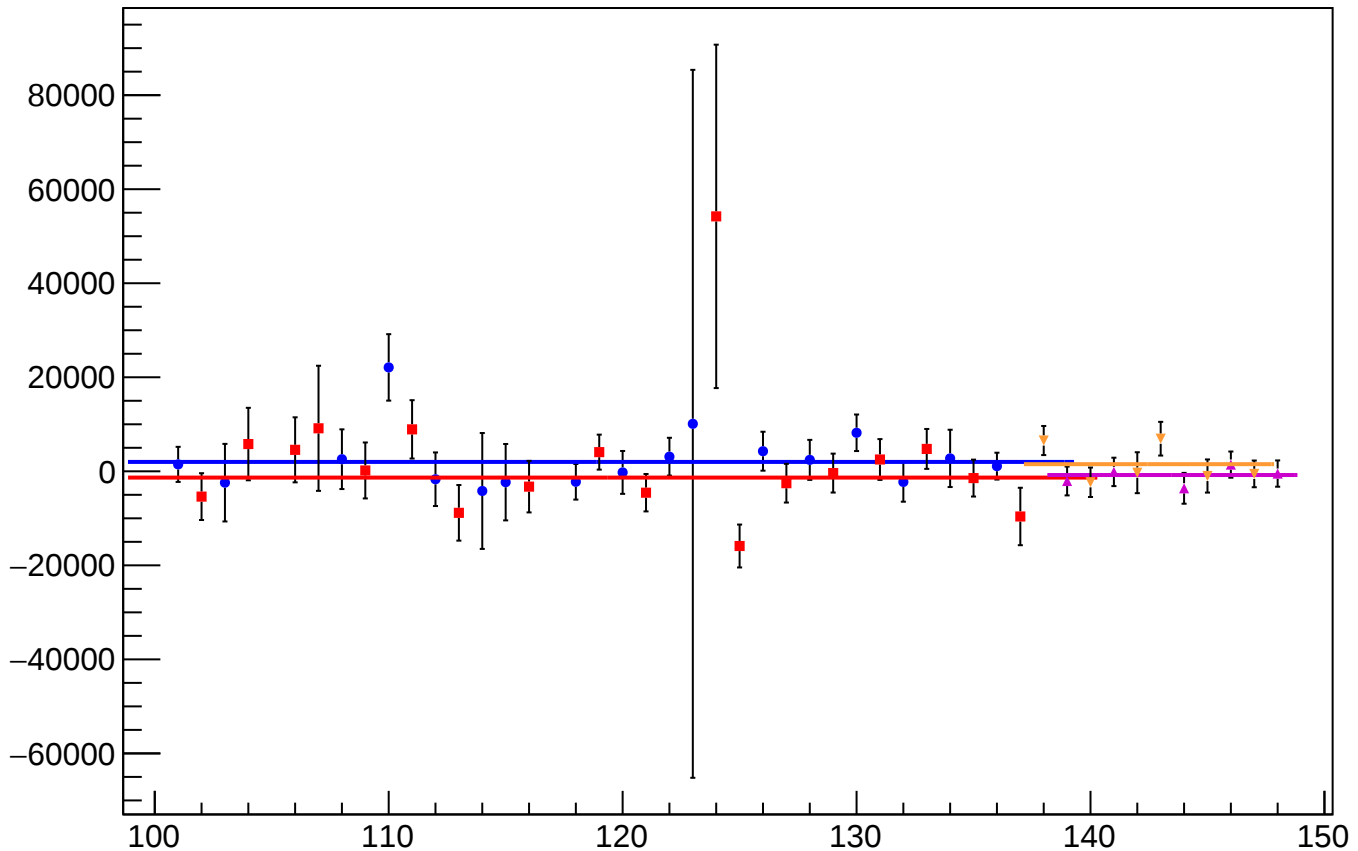
Left In:  $798.731 \pm 0.298$   $\chi^2/\text{NDF}$ : 1012400.9/4

+ sign  $884.106 \pm 0.205$   $\chi^2/\text{NDF}$ : 3090343.5/22

All:  $839.991 \pm 0.143$   $\chi^2/\text{NDF}$ : 9366973.6/45

- sign  $798.180 \pm 0.200$   $\chi^2/\text{NDF}$ : 6186739.0/22

# asym\_atl1\_mean vs Slug



Right In: 1996.263±/-1155.054  $\chi^2$ /NDF: 14.9/16

Left Out: 1517.523±/-1359.026  $\chi^2$ /NDF: 7.7/5

Right Out: -1336.627±/-1193.730  $\chi^2$ /NDF: 27.5/17

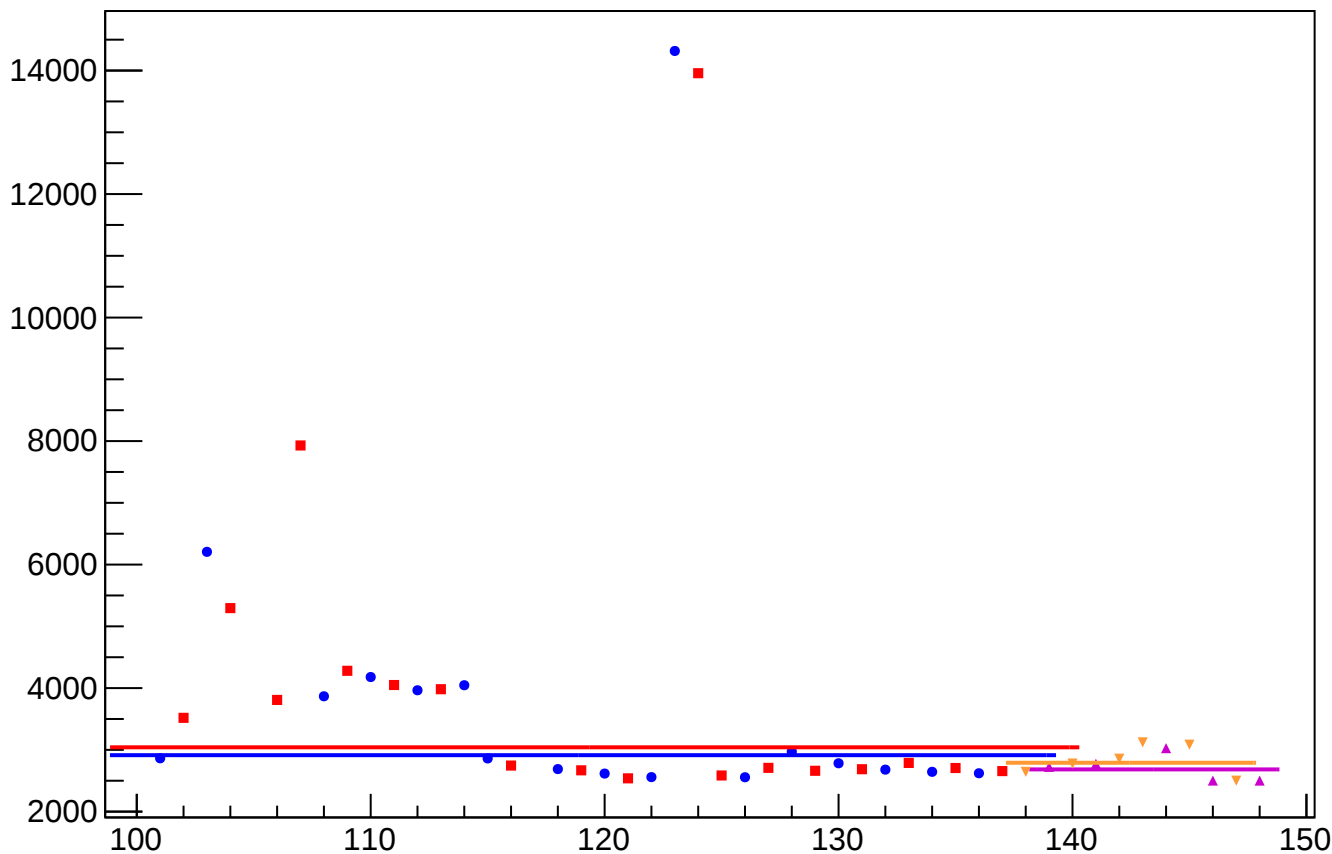
Left In: -789.144±/-1329.090  $\chi^2$ /NDF: 1.6/4

+ sign 1795.480±/-880.119  $\chi^2$ /NDF: 22.6/22

All: 364.696±/-625.143  $\chi^2$ /NDF: 57.2/45

- sign -1092.176±/-888.106  $\chi^2$ /NDF: 29.2/22

# asym\_atl1\_rms vs Slug



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

Left Out: 2791.123+/-0.961  $\chi^2/\text{NDF}$ : 56626.1/5

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

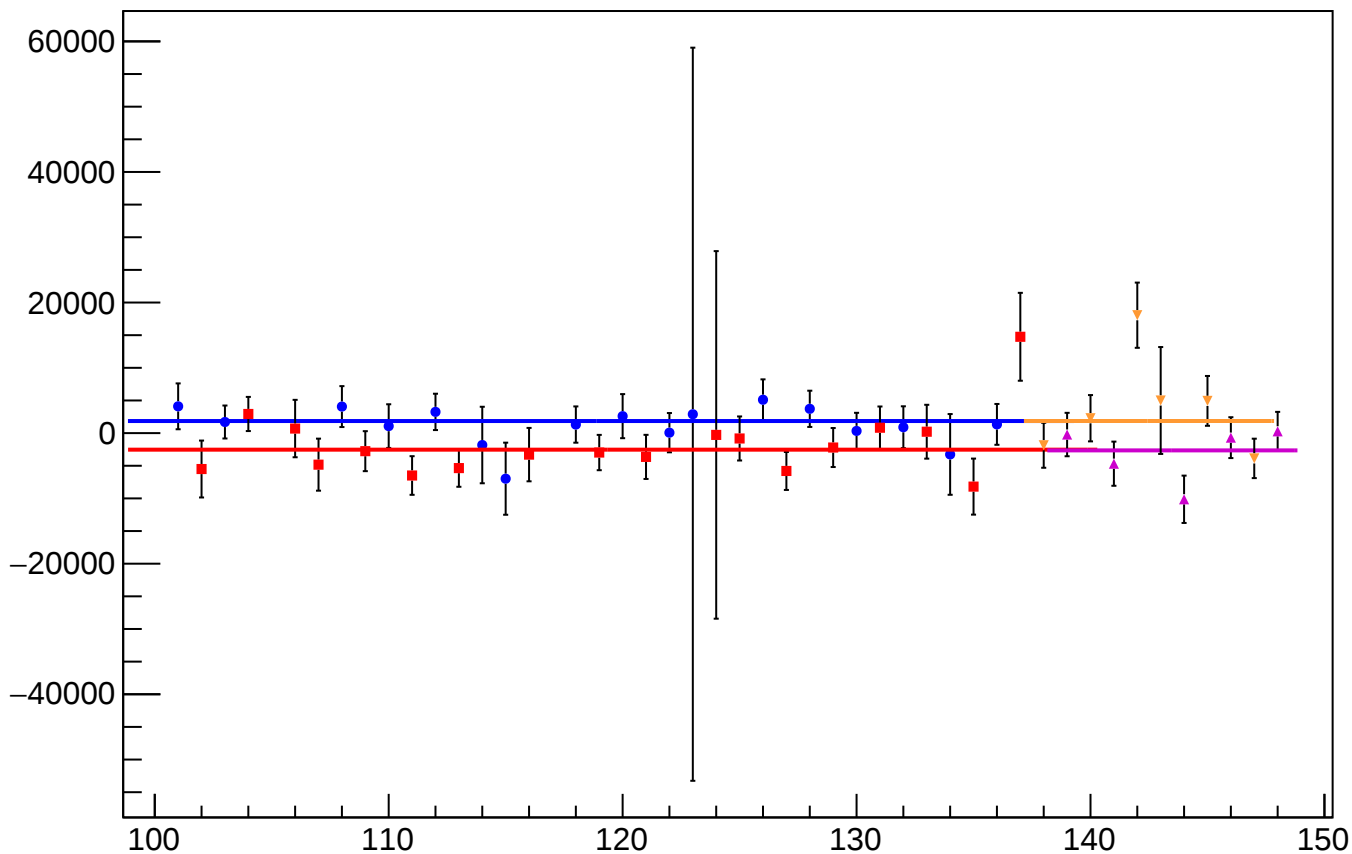
Left In: 2683.392+/-0.940  $\chi^2/\text{NDF}$ : 40972.2/4

+ sign 2862.393+/-0.622  $\chi^2/\text{NDF}$ : 705084.2/22

All: 2871.838+/-0.442  $\chi^2/\text{NDF}$ : 1830347.3/45

- sign 2881.454+/-0.628  $\chi^2/\text{NDF}$ : 1124798.3/22

# dit\_asym\_atl2\_mean vs Slug



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

Left Out:  $1855.717 \pm 1586.714$   $\chi^2/\text{NDF}$ : 16.1/5

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

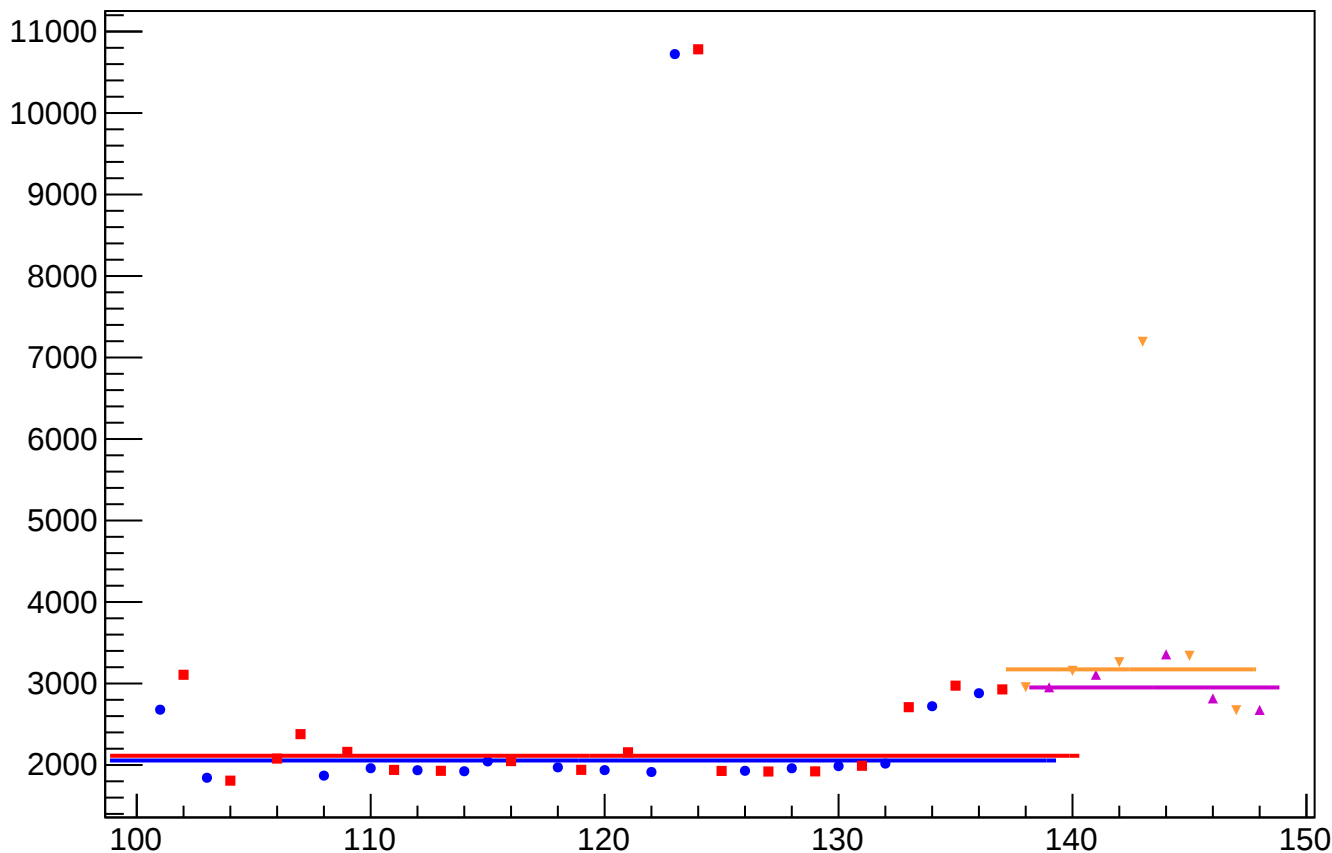
Left In:  $-2646.054 \pm 1460.419$   $\chi^2/\text{NDF}$ : 6.5/4

+ sign  $1851.248 \pm 719.142$   $\chi^2/\text{NDF}$ : 23.4/22

All:  $-369.354 \pm 506.880$   $\chi^2/\text{NDF}$ : 68.8/45

- sign  $-2561.710 \pm 714.553$   $\chi^2/\text{NDF}$ : 26.5/22

# dit\_asym\_atl2\_rms vs Slug



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

Left Out: 3173.604+/-1.122  $\chi^2/\text{NDF}$ : 549807.8/5

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

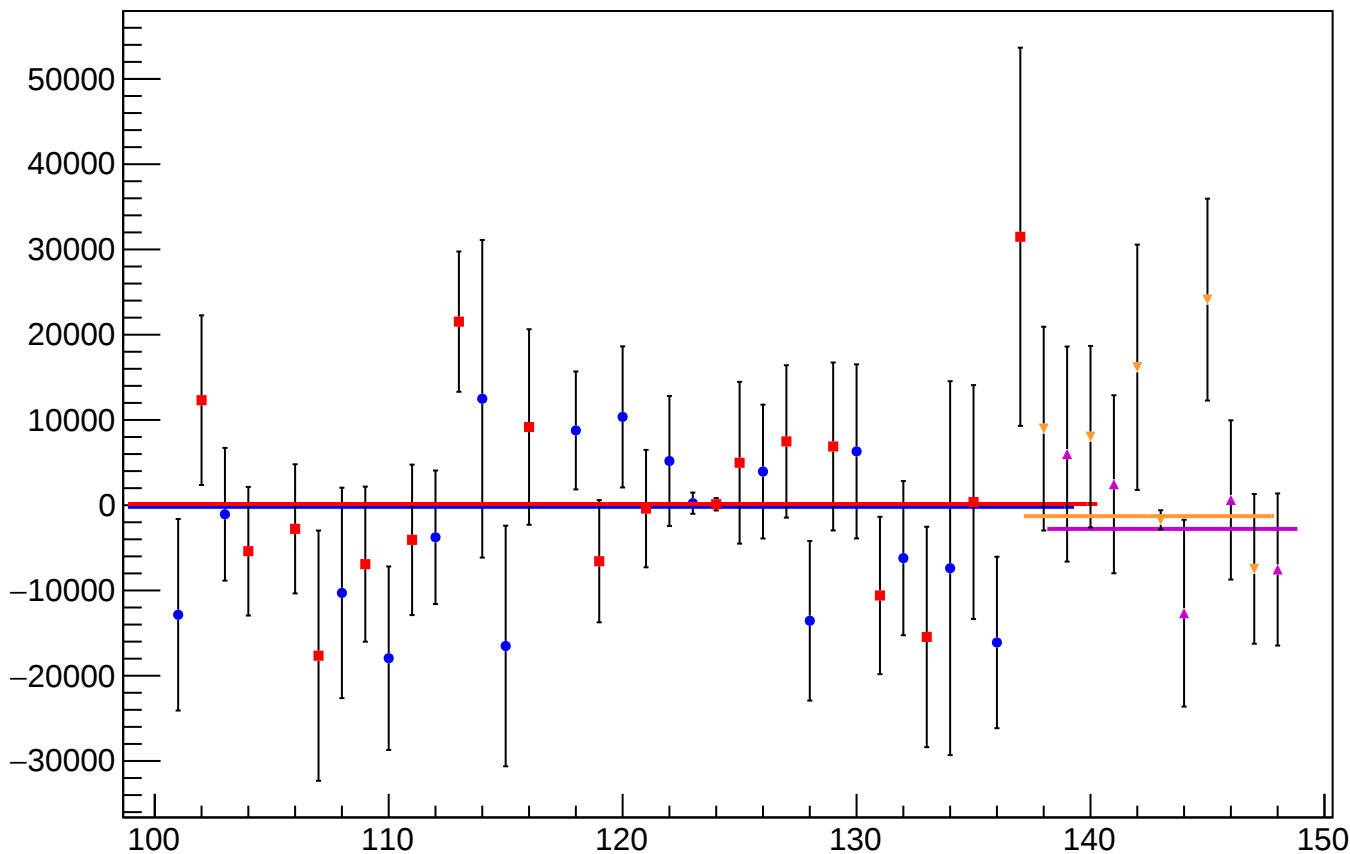
Left In: 2951.500+/-1.033  $\chi^2/\text{NDF}$ : 50230.0/4

+ sign 2285.133+/-0.509  $\chi^2/\text{NDF}$ : 1655377.3/22

All: 2299.426+/-0.358  $\chi^2/\text{NDF}$ : 2740643.1/45

- sign 2313.505+/-0.505  $\chi^2/\text{NDF}$ : 1083697.6/22

# asym\_atl2\_correction\_mean vs Slug



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

Left Out:  $-1285.456 \pm 1094.522$   $\chi^2/\text{NDF}$ : 8.2/5

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

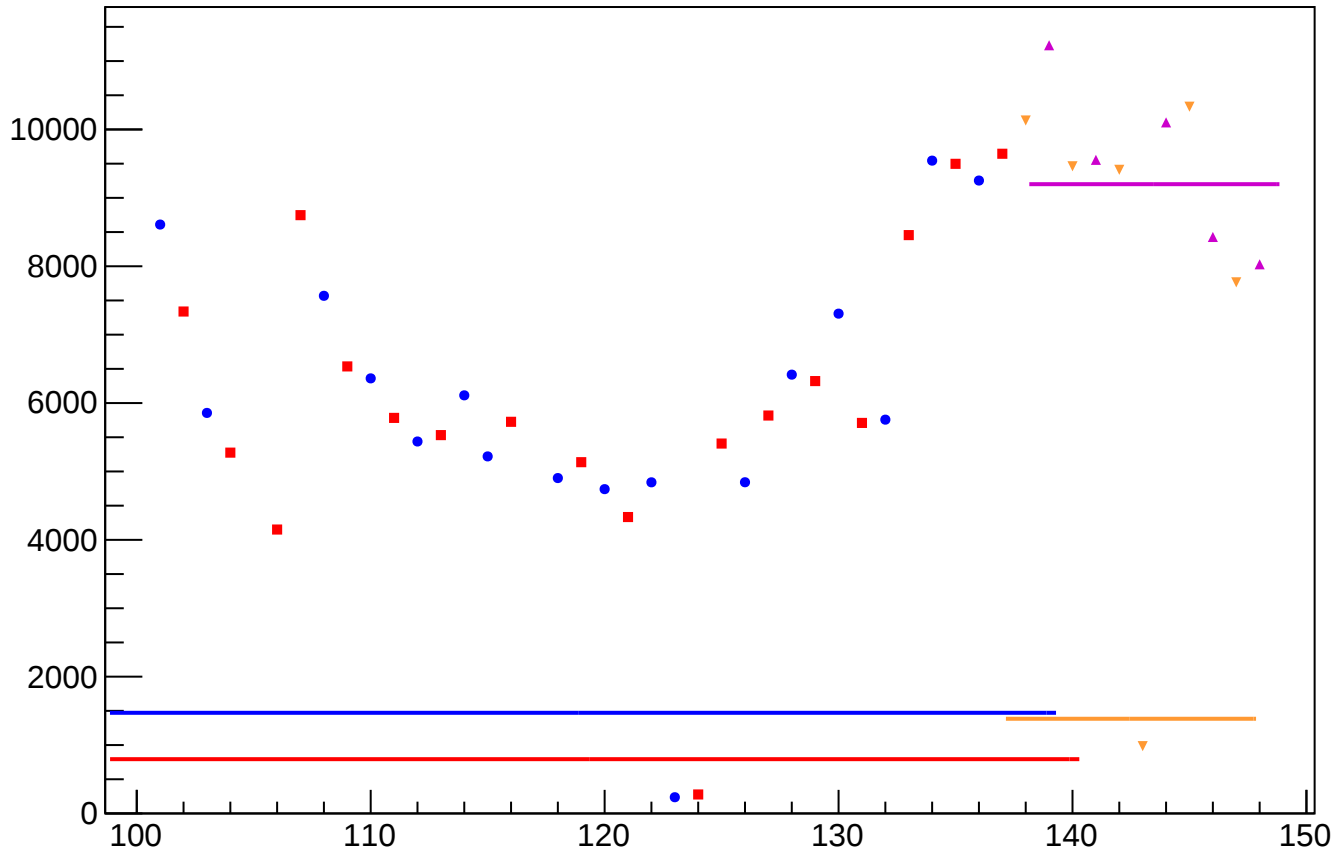
Left In:  $-2780.011 \pm 4573.456$   $\chi^2/\text{NDF}$ : 2.0/4

+ sign  $-738.487 \pm 776.147$   $\chi^2/\text{NDF}$ : 25.1/22

All:  $-279.184 \pm 512.836$   $\chi^2/\text{NDF}$ : 47.0/45

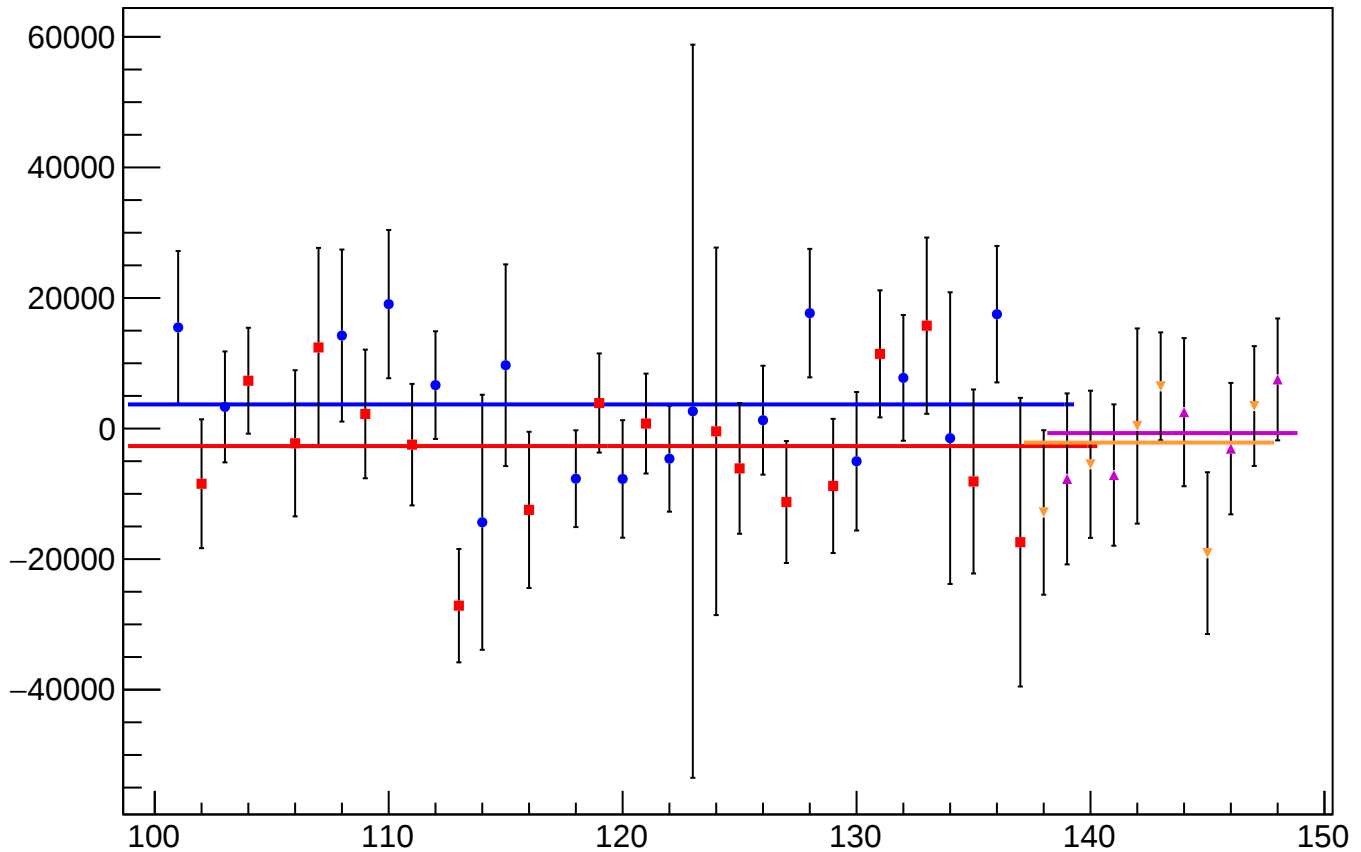
- sign  $76.725 \pm 683.226$   $\chi^2/\text{NDF}$ : 21.3/22

# asym\_atl2\_correction\_rms vs Slug



|                            |                                     |                         |                                     |
|----------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Right In: 1471.609+/-0.778 | $\chi^2/\text{NDF}$ : 9788255.4/16  | + sign 1427.783+/-0.549 | $\chi^2/\text{NDF}$ : 15093953.2/22 |
| Left Out: 1384.455+/-0.774 | $\chi^2/\text{NDF}$ : 5299393.5/5   | All: 1176.210+/-0.363   | $\chi^2/\text{NDF}$ : 33611782.1/4  |
| Right Out: 793.659+/-0.489 | $\chi^2/\text{NDF}$ : 11422584.5/17 | - sign 981.268+/-0.483  | $\chi^2/\text{NDF}$ : 18144884.6/22 |
| Left In: 9200.125+/-3.234  | $\chi^2/\text{NDF}$ : 115884.2/4    |                         |                                     |

# asym\_atl2\_mean vs Slug



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

Left Out: -2145.317+/-4399.416  $\chi^2/\text{NDF}$ : 4.2/5

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

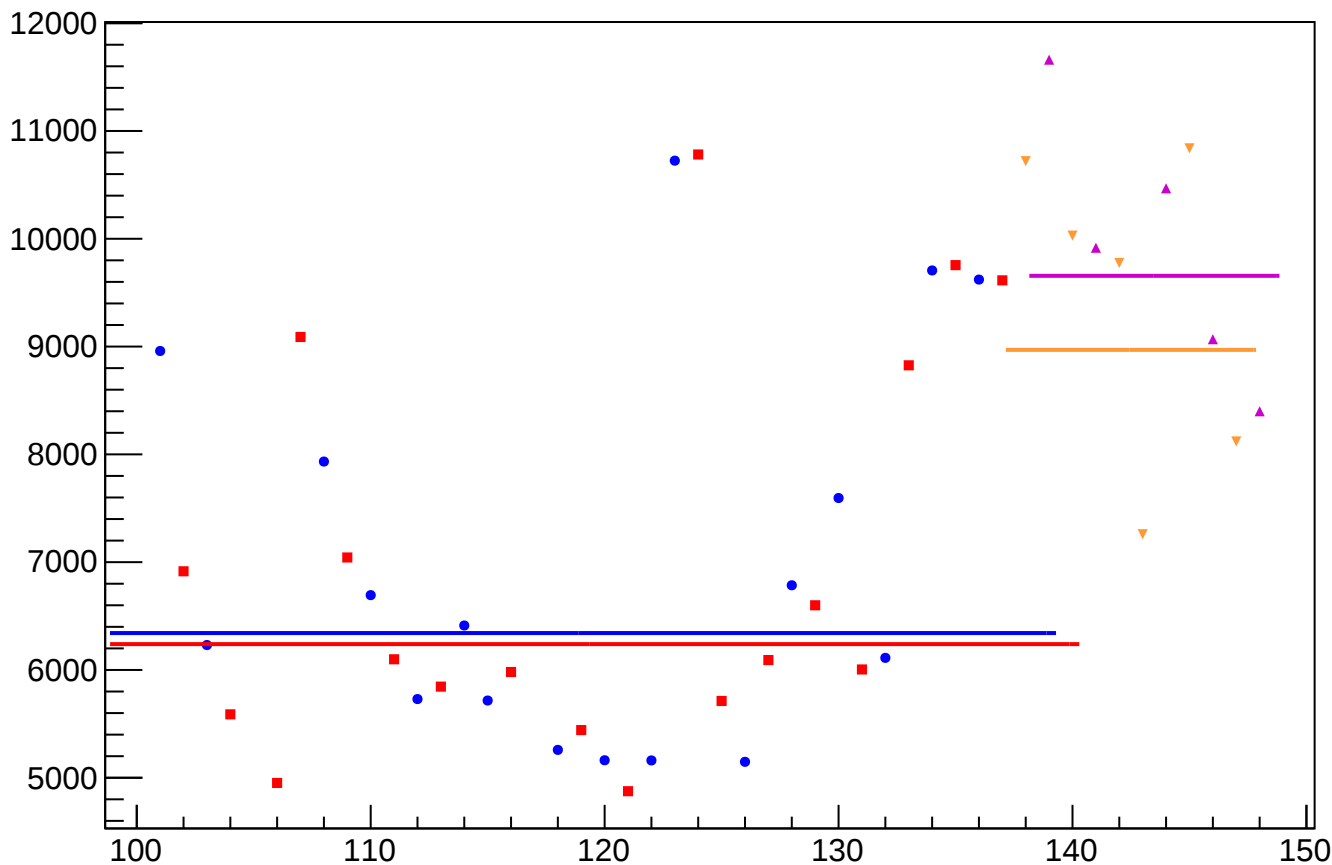
Left In: -694.261+/-4796.861  $\chi^2/\text{NDF}$ : 1.6/4

+ sign 2256.528+/-2185.336  $\chi^2/\text{NDF}$ : 19.9/22

All: -28.286+/-1538.657  $\chi^2/\text{NDF}$ : 42.3/45

- sign -2274.425+/-2166.762  $\chi^2/\text{NDF}$ : 20.2/22

# asym\_atl2\_rms vs Slug



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

Left Out:  $8969.362 \pm 3.111$   $\chi^2/\text{NDF}: 210431.0/5$

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

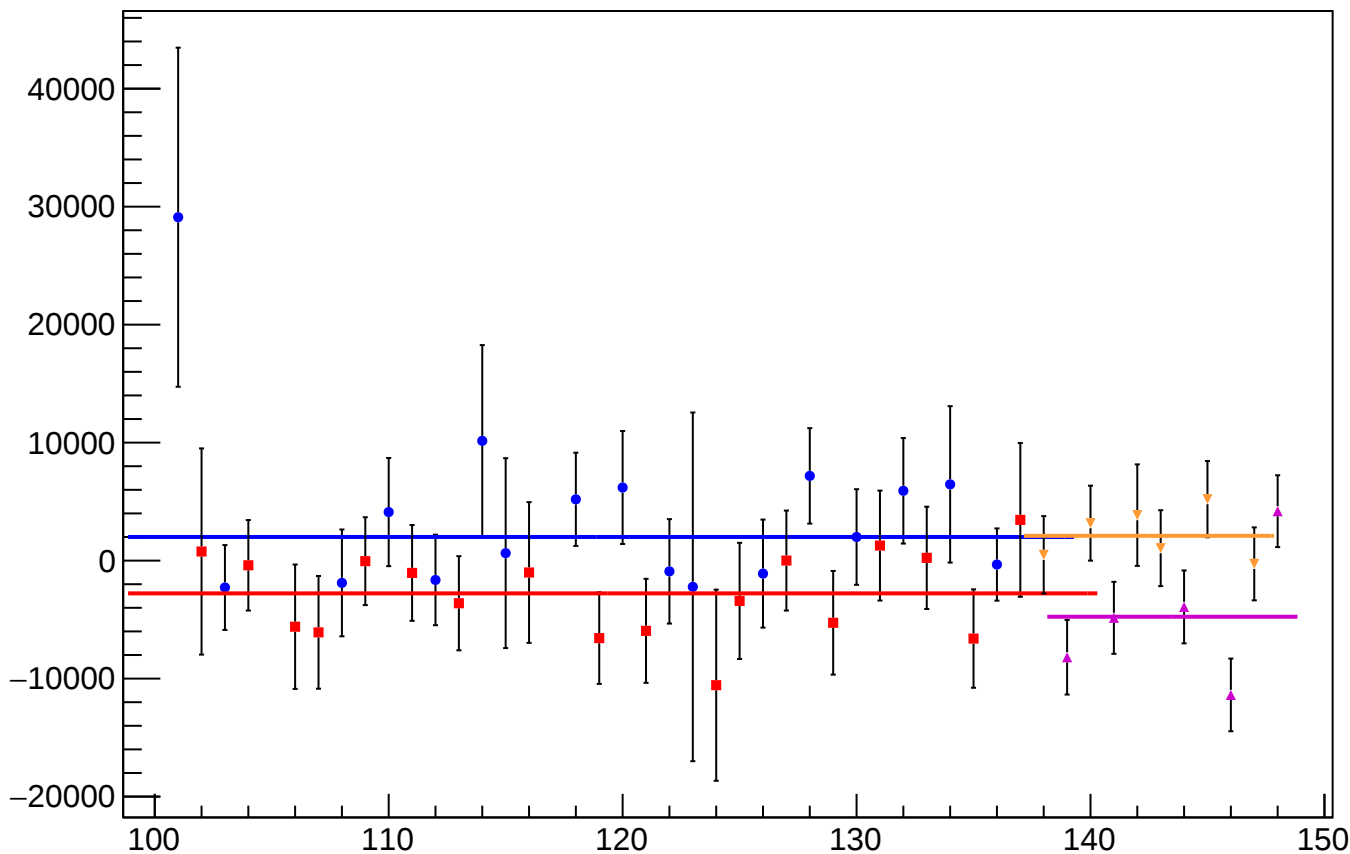
Left In:  $9656.403 \pm 3.392$   $\chi^2/\text{NDF}: 101292.1/4$

+ sign  $6990.527 \pm 1.545$   $\chi^2/\text{NDF}: 1341274.5/22$

All:  $6963.434 \pm 1.088$   $\chi^2/\text{NDF}: 2780073.3/45$

- sign  $6936.801 \pm 1.532$   $\chi^2/\text{NDF}: 1438189.2/22$

# dit\_asym\_atr1\_mean vs Slug



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

Left Out: 2100.519+/-1357.093  $\chi^2/\text{NDF}$ : 2.1/5

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

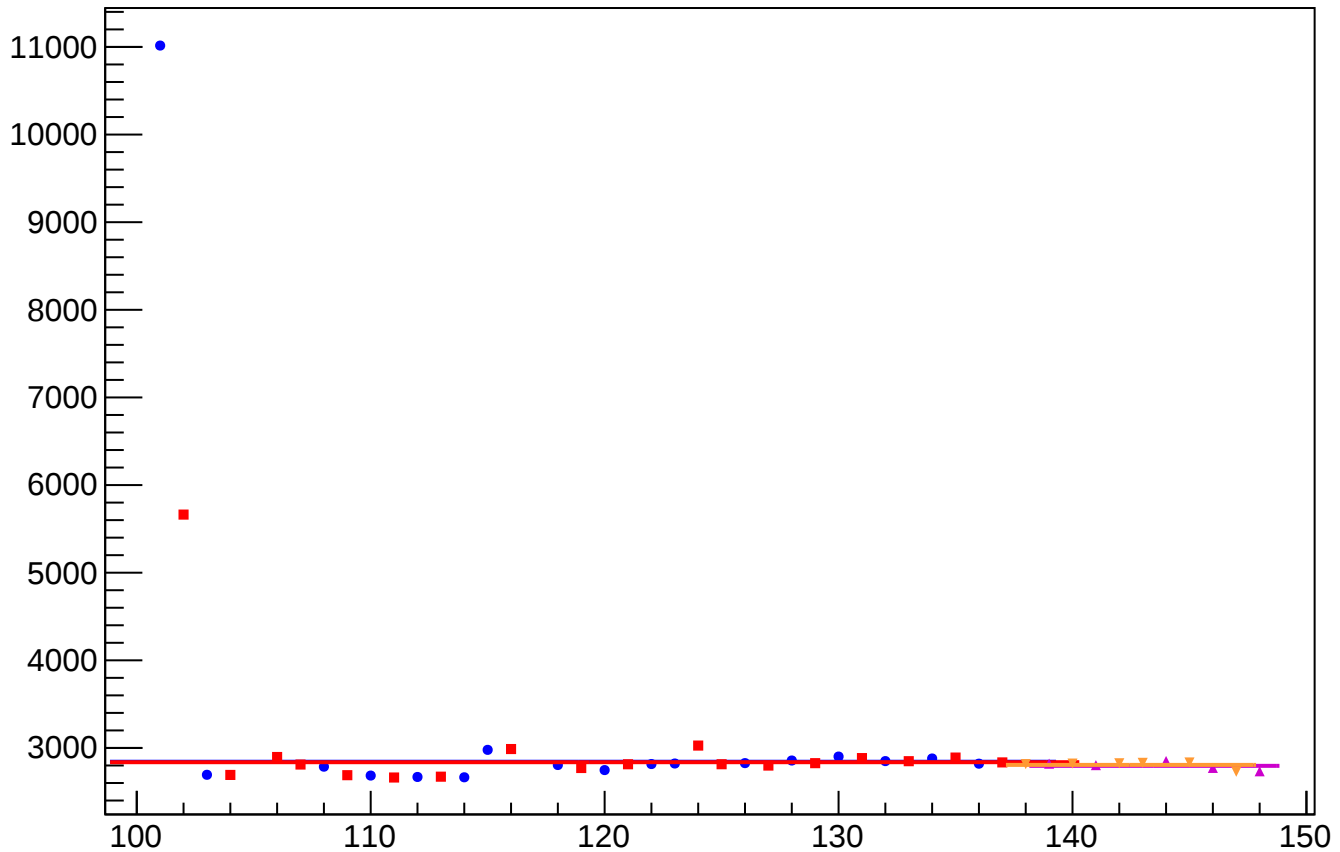
Left In: -4756.416+/-1379.110  $\chi^2/\text{NDF}$ : 14.5/4

+ sign 2043.680+/-866.298  $\chi^2/\text{NDF}$ : 15.8/22

All: -786.682+/-608.029  $\chi^2/\text{NDF}$ : 61.0/45

- sign -3534.737+/-853.609  $\chi^2/\text{NDF}$ : 24.1/22

# dit\_asym\_atr1\_rms vs Slug



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

Left Out: 2806.672+/-0.960  $\chi^2/\text{NDF}$ : 1633.5/5

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

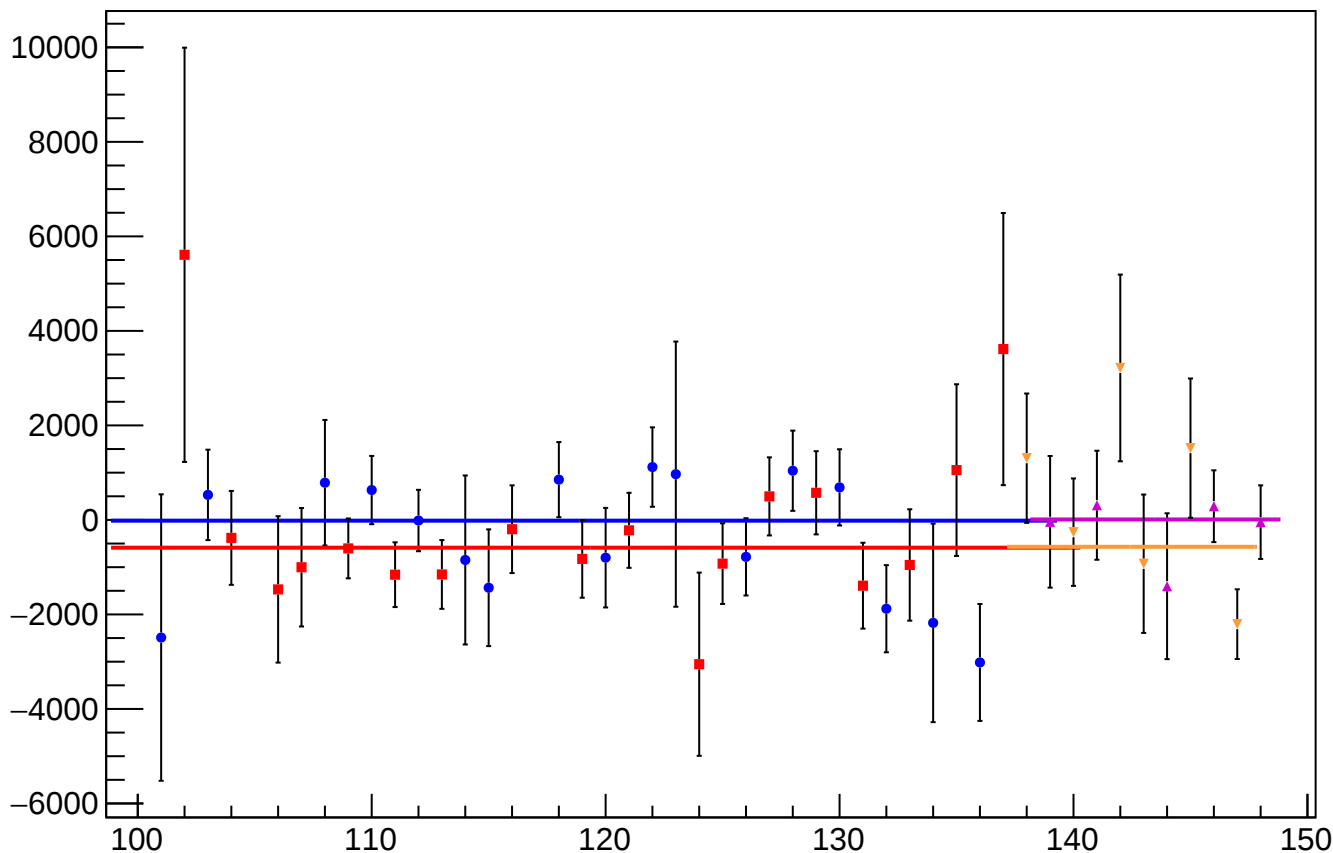
Left In: 2795.807+/-0.975  $\chi^2/\text{NDF}$ : 1725.5/4

+ sign 2827.977+/-0.613  $\chi^2/\text{NDF}$ : 662770.4/22

All: 2824.685+/-0.430  $\chi^2/\text{NDF}$ : 892099.1/45

- sign 2821.489+/-0.604  $\chi^2/\text{NDF}$ : 229271.8/22

# asym\_atr1\_correction\_mean vs Slug



Right In:  $-15.631 \pm 238.862$   $\chi^2/\text{NDF}$ : 21.6/16

Left Out:  $-568.713 \pm 480.702$   $\chi^2/\text{NDF}$ : 12.6/5

Right Out:  $-587.609 \pm 225.811$   $\chi^2/\text{NDF}$ : 13.3/17

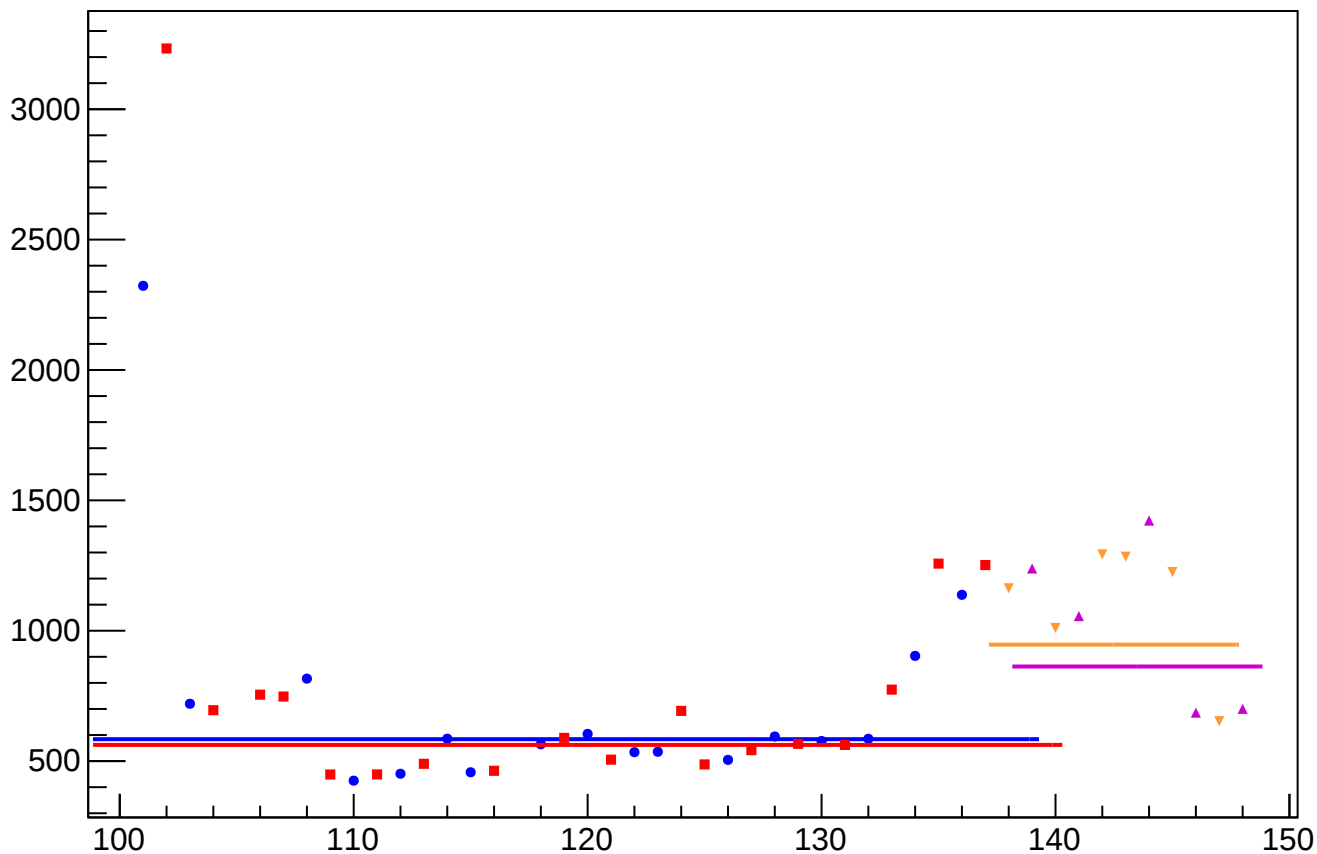
Left In:  $9.670 \pm 444.201$   $\chi^2/\text{NDF}$ : 1.0/4

+ sign  $-125.151 \pm 213.909$   $\chi^2/\text{NDF}$ : 35.3/22

All:  $-305.367 \pm 146.594$   $\chi^2/\text{NDF}$ : 52.4/45

- sign  $-464.955 \pm 201.295$   $\chi^2/\text{NDF}$ : 15.8/22

# asym\_atr1\_correction\_rms vs Slug



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 946.657+/-0.340  $\chi^2/\text{NDF}$ : 611966.1/5

Right Out: 562.122+/-0.160  $\chi^2/\text{NDF}$ : 1525298.9/17

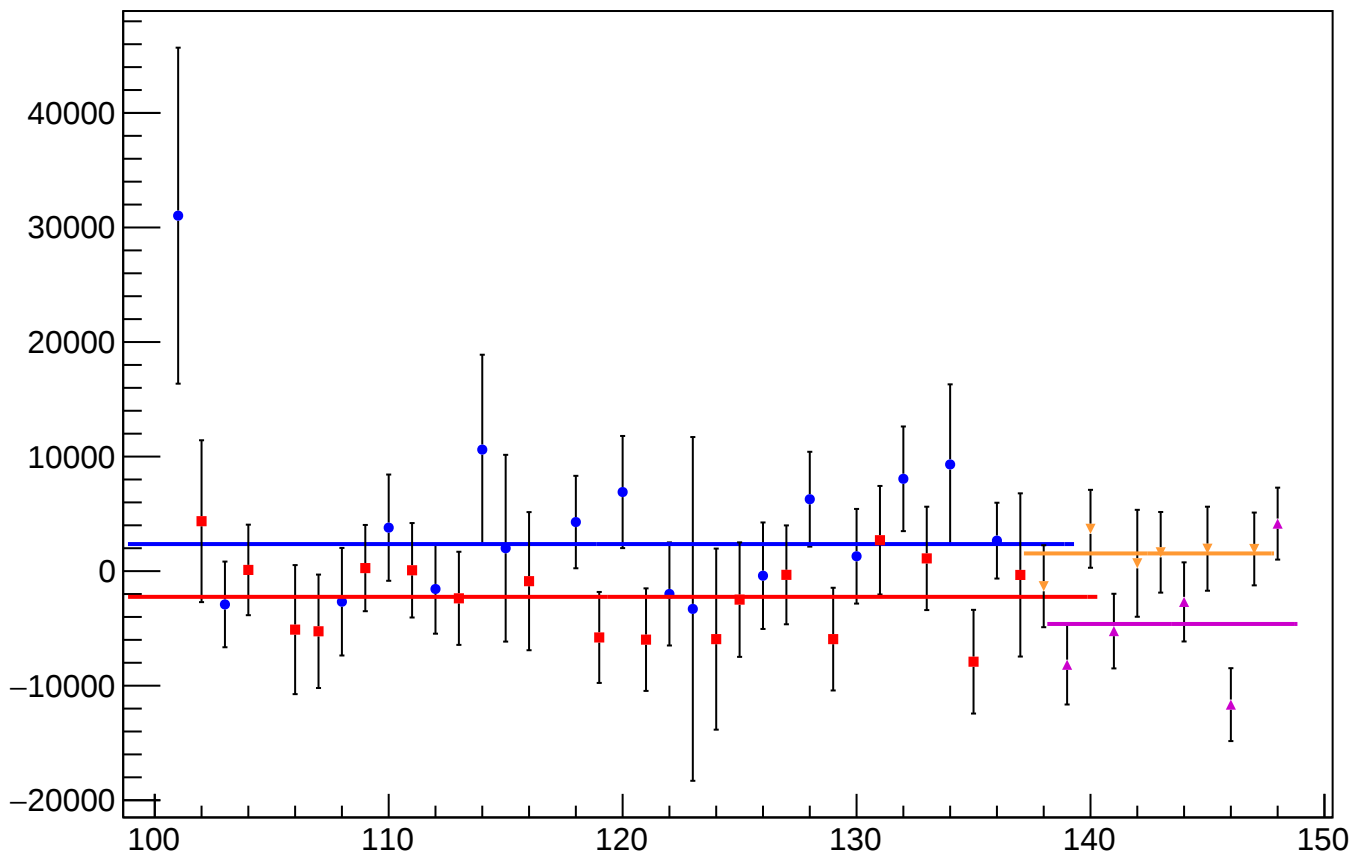
Left In: 862.804+/-0.314  $\chi^2/\text{NDF}$ : 660360.4/4

+ sign 655.857+/-0.151  $\chi^2/\text{NDF}$ : 2961225.2/22

All: 638.892+/-0.104  $\chi^2/\text{NDF}$ : 5898820.0/45

- sign 623.868+/-0.142  $\chi^2/\text{NDF}$ : 2913873.7/22

# asym\_atr1\_mean vs Slug



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 1545.056 $\pm$ 1467.205  $\chi^2$ /NDF: 1.1/5

Right Out: -2245.410 $\pm$ 1111.935  $\chi^2$ /NDF: 8.5/17

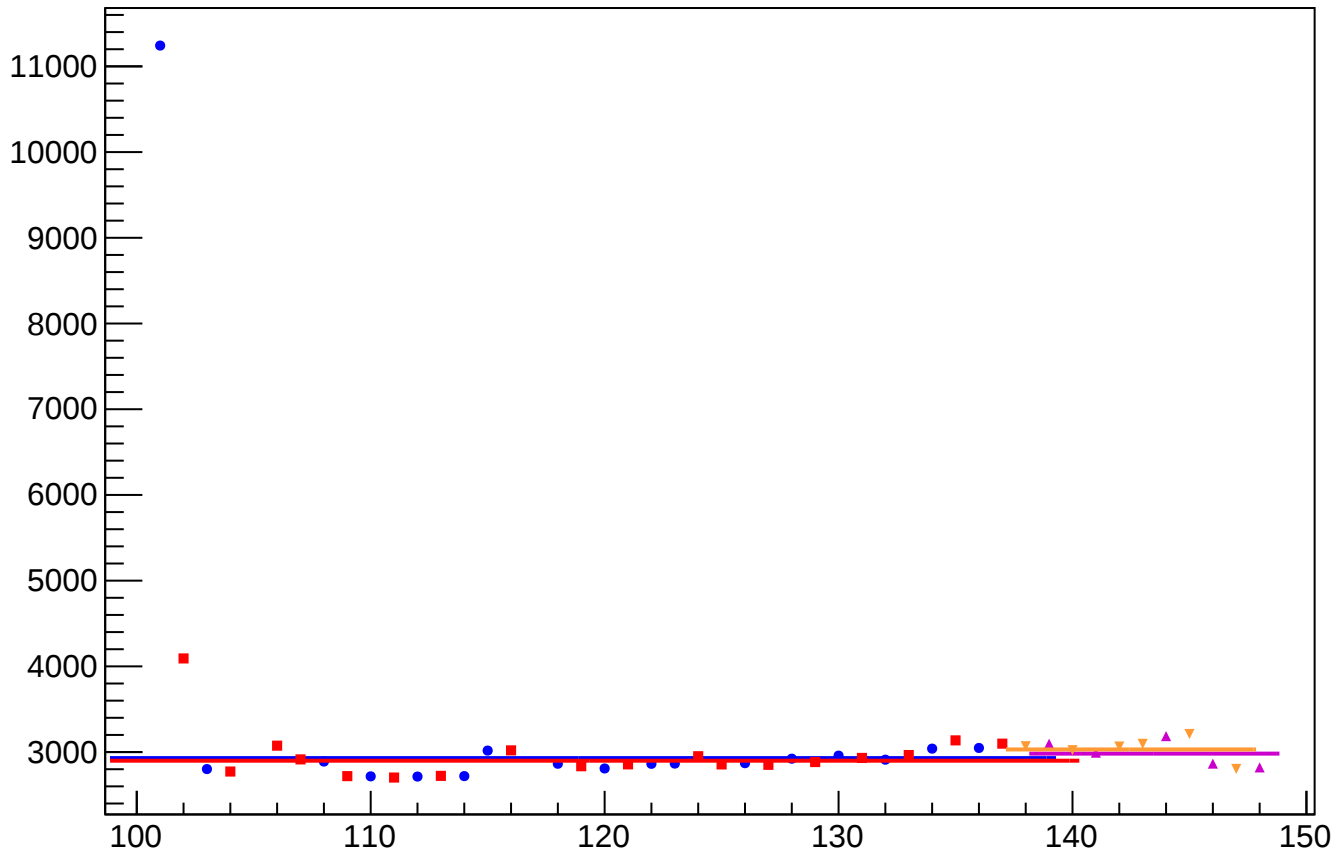
Left In: -4612.264 $\pm$ 1472.483  $\chi^2$ /NDF: 14.1/4

+ sign 2048.276 $\pm$ 909.930  $\chi^2$ /NDF: 16.4/22

All: -593.058 $\pm$ 635.285  $\chi^2$ /NDF: 57.1/45

- sign -3104.945 $\pm$ 887.352  $\chi^2$ /NDF: 24.3/22

# asym\_atr1\_rms vs Slug



Right In:  $2929.654 \pm 0.820$   $\chi^2/\text{NDF}$ : 662629.0/16

Left Out:  $3030.630 \pm 1.037$   $\chi^2/\text{NDF}$ : 16069.1/5

Right Out:  $2899.431 \pm 0.786$   $\chi^2/\text{NDF}$ : 83543.1/17

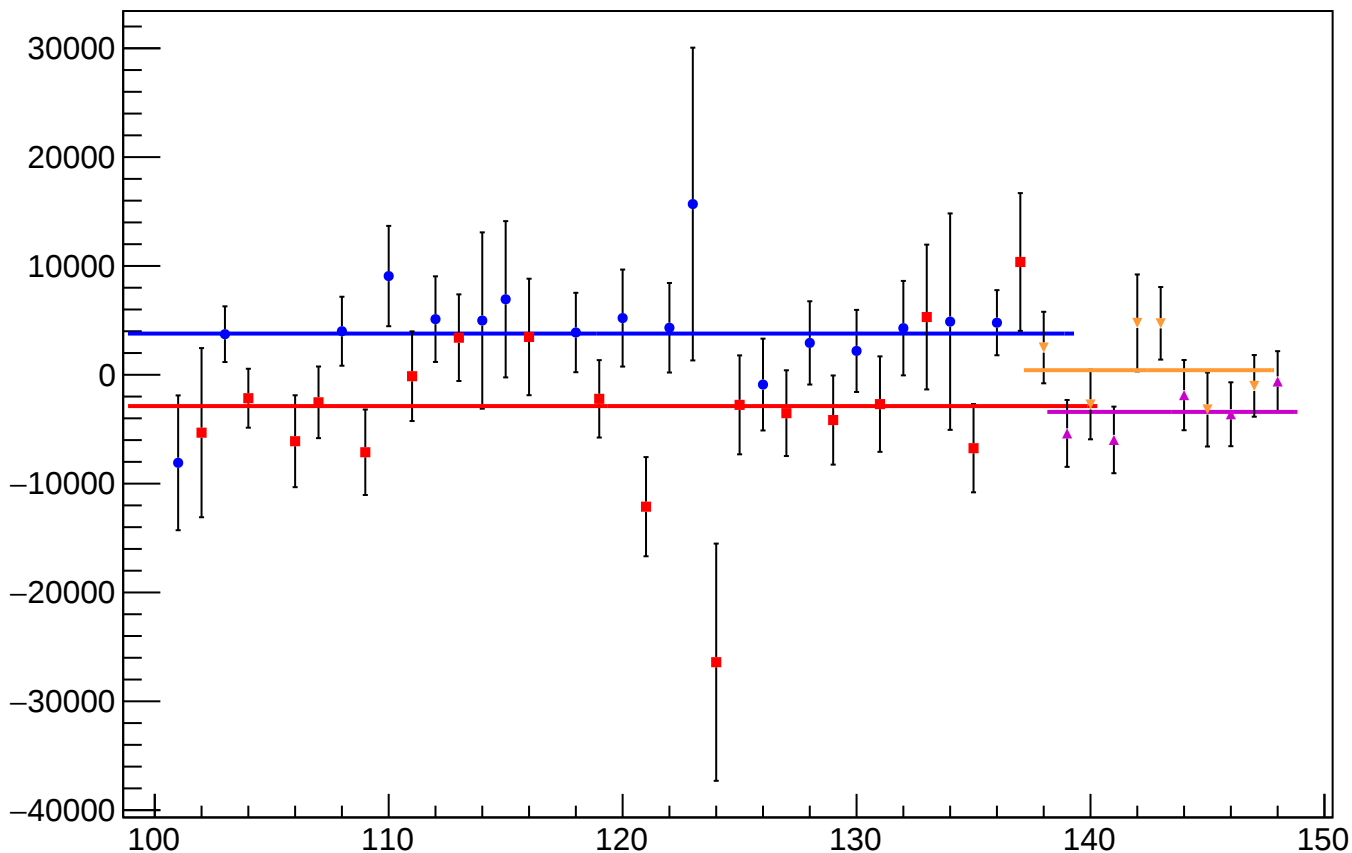
Left In:  $2981.999 \pm 1.041$   $\chi^2/\text{NDF}$ : 17153.0/4

+ sign  $2968.491 \pm 0.643$   $\chi^2/\text{NDF}$ : 684527.5/22

All:  $2948.463 \pm 0.449$   $\chi^2/\text{NDF}$ : 791118.9/45

- sign  $2929.416 \pm 0.627$   $\chi^2/\text{NDF}$ : 104700.9/22

# dit\_asym\_atr2\_mean vs Slug



Right In: 3787.840+/-1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 422.288+/-1358.438  $\chi^2/\text{NDF}$ : 5.4/5

Right Out: -2874.691+/-1004.077  $\chi^2/\text{NDF}$ : 22.0/17

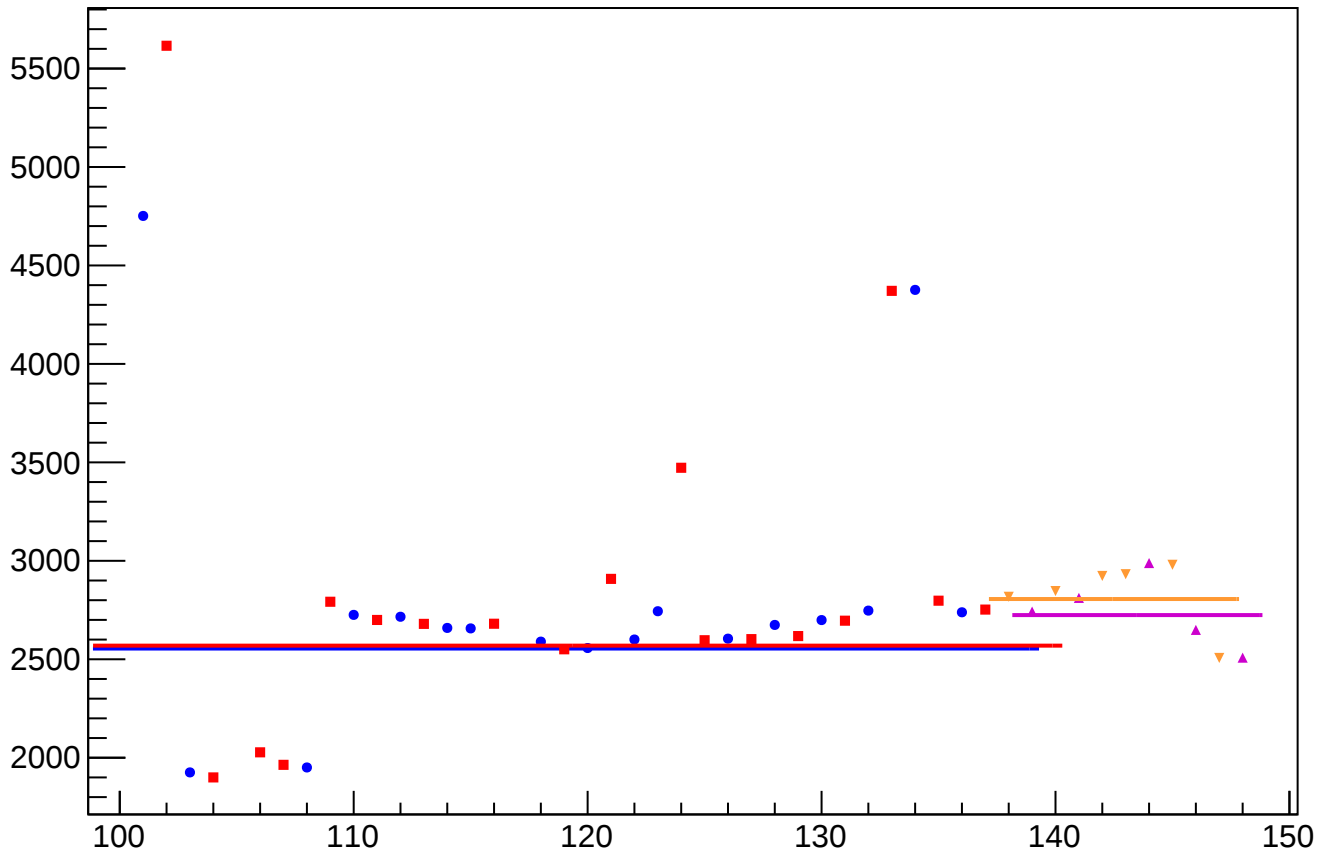
Left In: -3410.489+/-1343.474  $\chi^2/\text{NDF}$ : 2.4/4

+ sign 2592.579+/-809.549  $\chi^2/\text{NDF}$ : 17.1/22

All: -255.562+/-570.563  $\chi^2/\text{NDF}$ : 66.1/45

- sign -3066.713+/-804.274  $\chi^2/\text{NDF}$ : 24.5/22

# dit\_asym\_atr2\_rms vs Slug



Right In: 2554.537+/-0.713  $\chi^2/\text{NDF}$ : 536626.0/16

Left Out: 2805.981+/-0.961  $\chi^2/\text{NDF}$ : 32140.2/5

Right Out: 2569.256+/-0.710  $\chi^2/\text{NDF}$ : 723332.1/17

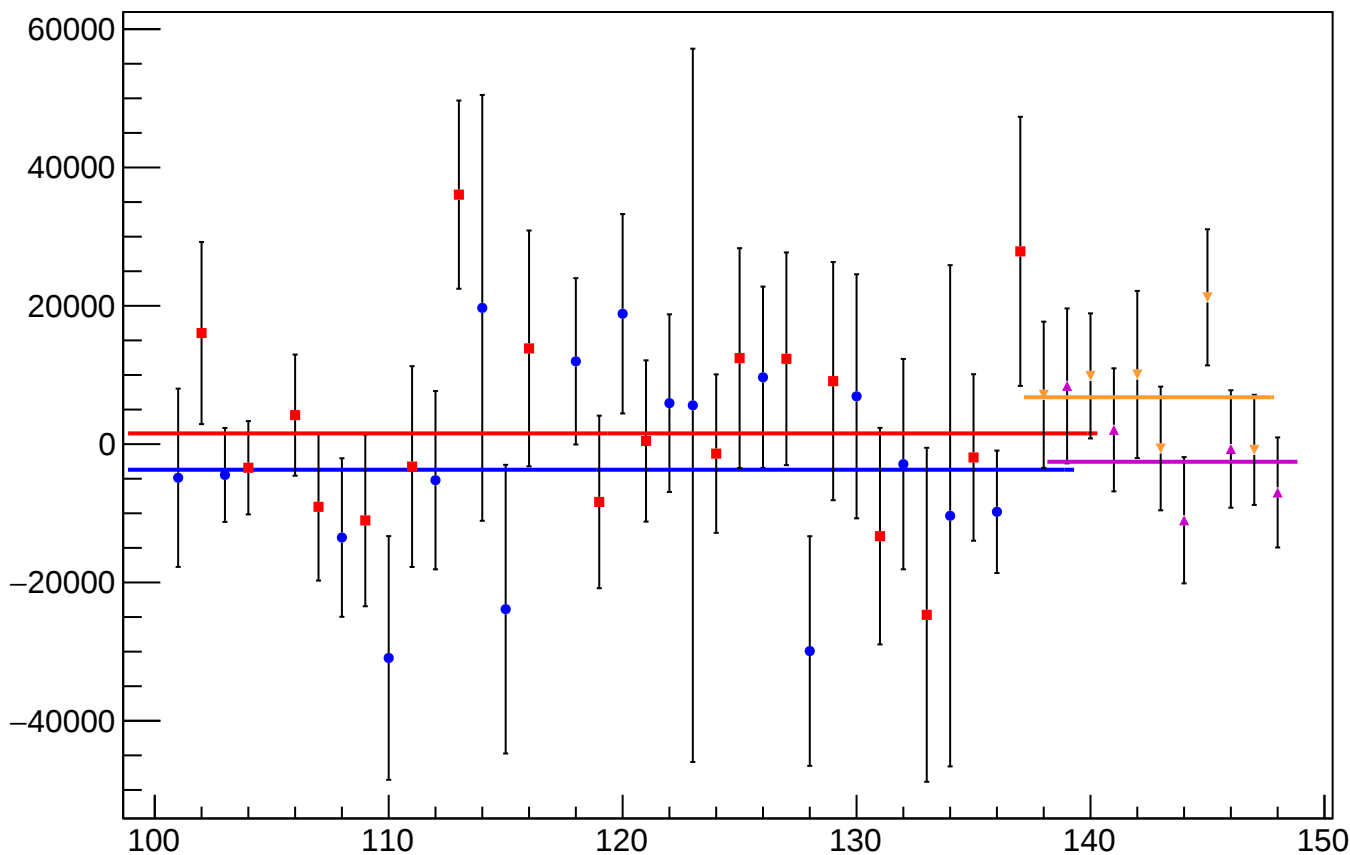
Left In: 2724.425+/-0.950  $\chi^2/\text{NDF}$ : 28488.5/4

+ sign 2643.836+/-0.572  $\chi^2/\text{NDF}$ : 612953.2/22

All: 2634.272+/-0.403  $\chi^2/\text{NDF}$ : 1382451.3/45

- sign 2624.837+/-0.569  $\chi^2/\text{NDF}$ : 768943.7/22

# asym\_atr2\_correction\_mean vs Slug



Right In: -3699.522+/-3217.843  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 6779.943+/-3873.658  $\chi^2/\text{NDF}$ : 3.9/5

Right Out: 1555.707+/-2911.769  $\chi^2/\text{NDF}$ : 16.8/17

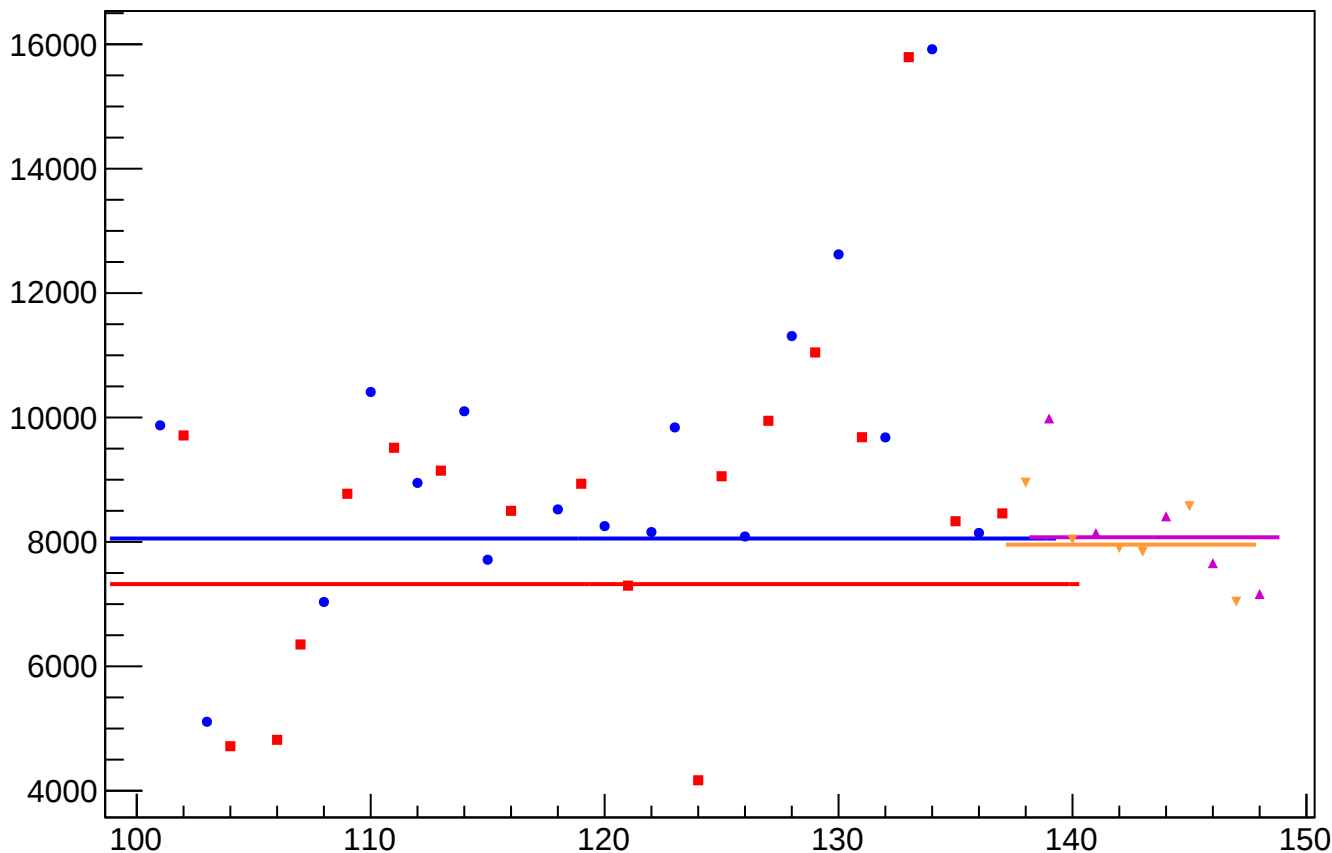
Left In: -2549.184+/-4007.969  $\chi^2/\text{NDF}$ : 2.4/4

+ sign 579.299+/-2475.220  $\chi^2/\text{NDF}$ : 22.1/22

All: 347.543+/-1706.430  $\chi^2/\text{NDF}$ : 42.0/45

- sign 137.624+/-2355.724  $\chi^2/\text{NDF}$ : 19.9/22

# asym\_atr2\_correction\_rms vs Slug



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 7956.380+/-2.739  $\chi^2/\text{NDF}$ : 52768.2/5

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

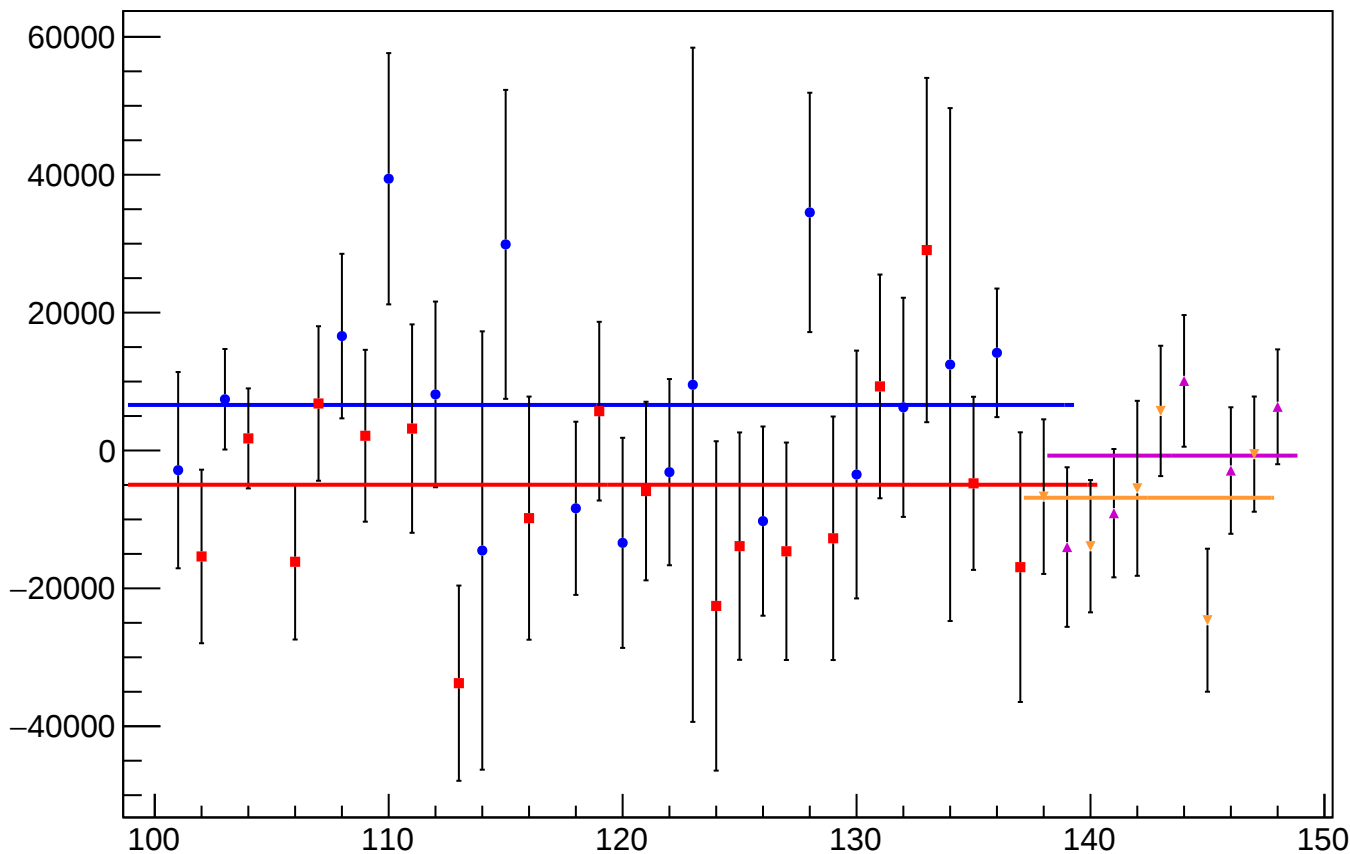
Left In: 8074.517+/-2.834  $\chi^2/\text{NDF}$ : 92089.1/4

+ sign 8014.598+/-1.750  $\chi^2/\text{NDF}$ : 874295.1/22

All: 7787.391+/-1.207  $\chi^2/\text{NDF}$ : 2380674.3/45

- sign 7581.591+/-1.666  $\chi^2/\text{NDF}$ : 1474263.3/22

# asym\_atr2\_mean vs Slug



Right In: 6607.332 $\pm$ 3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -6857.823 $\pm$ 4088.382  $\chi^2/\text{NDF}$ : 5.8/5

Right Out: -4967.799 $\pm$ 3176.866  $\chi^2/\text{NDF}$ : 13.5/17

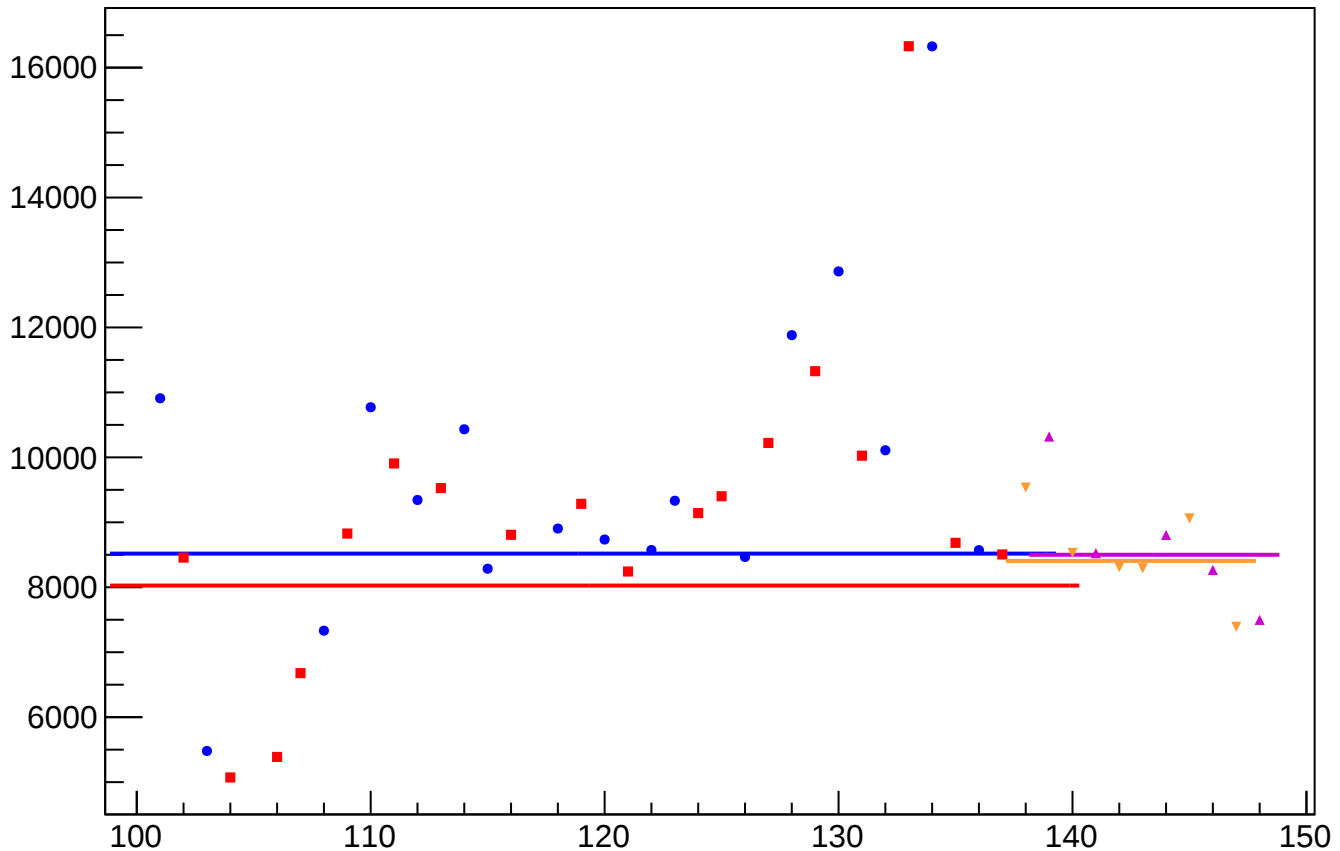
Left In: -746.100 $\pm$ 4215.923  $\chi^2/\text{NDF}$ : 4.2/4

+ sign 1110.104 $\pm$ 2612.268  $\chi^2/\text{NDF}$ : 26.9/22

All: -1230.677 $\pm$ 1820.022  $\chi^2/\text{NDF}$ : 46.9/45

- sign -3438.816 $\pm$ 2537.175  $\chi^2/\text{NDF}$ : 18.4/22

# asym\_atr2\_rms vs Slug



Right In: 8518.273+/-2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 8406.099+/-2.891  $\chi^2/\text{NDF}$ : 58421.5/5

Right Out: 8026.045+/-2.246  $\chi^2/\text{NDF}$ : 942657.8/17

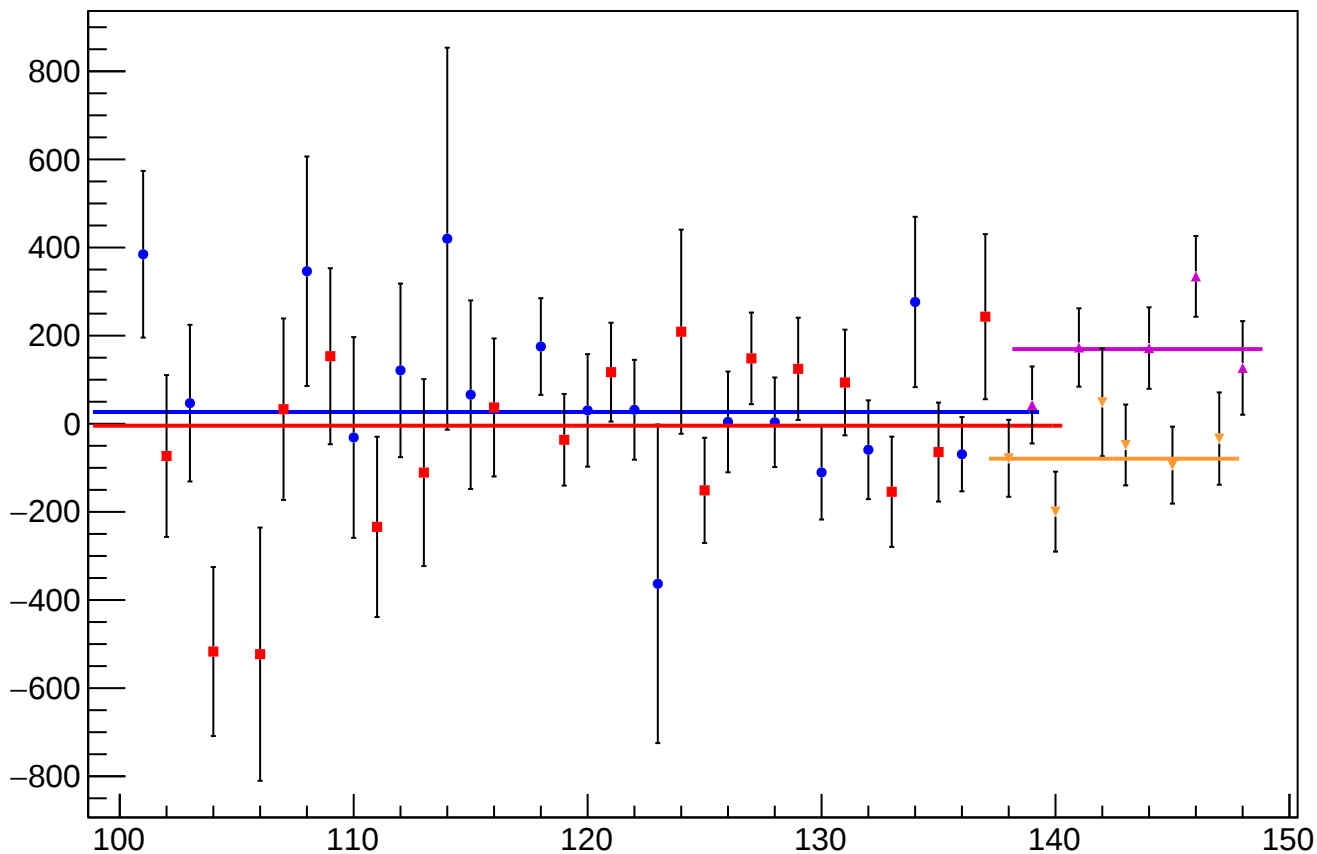
Left In: 8500.510+/-2.981  $\chi^2/\text{NDF}$ : 81735.3/4

+ sign 8472.477+/-1.847  $\chi^2/\text{NDF}$ : 831307.5/22

All: 8331.169+/-1.287  $\chi^2/\text{NDF}$ : 1883230.5/45

- sign 8197.875+/-1.794  $\chi^2/\text{NDF}$ : 1040550.4/22

# dit\_asym\_sam1\_mean vs Slug



Right In:  $26.713 \pm 33.626$   $\chi^2/\text{NDF}: 14.5/16$

Left Out:  $-79.251 \pm 38.919$   $\chi^2/\text{NDF}: 3.2/5$

Right Out:  $-4.338 \pm 33.842$   $\chi^2/\text{NDF}: 23.9/17$

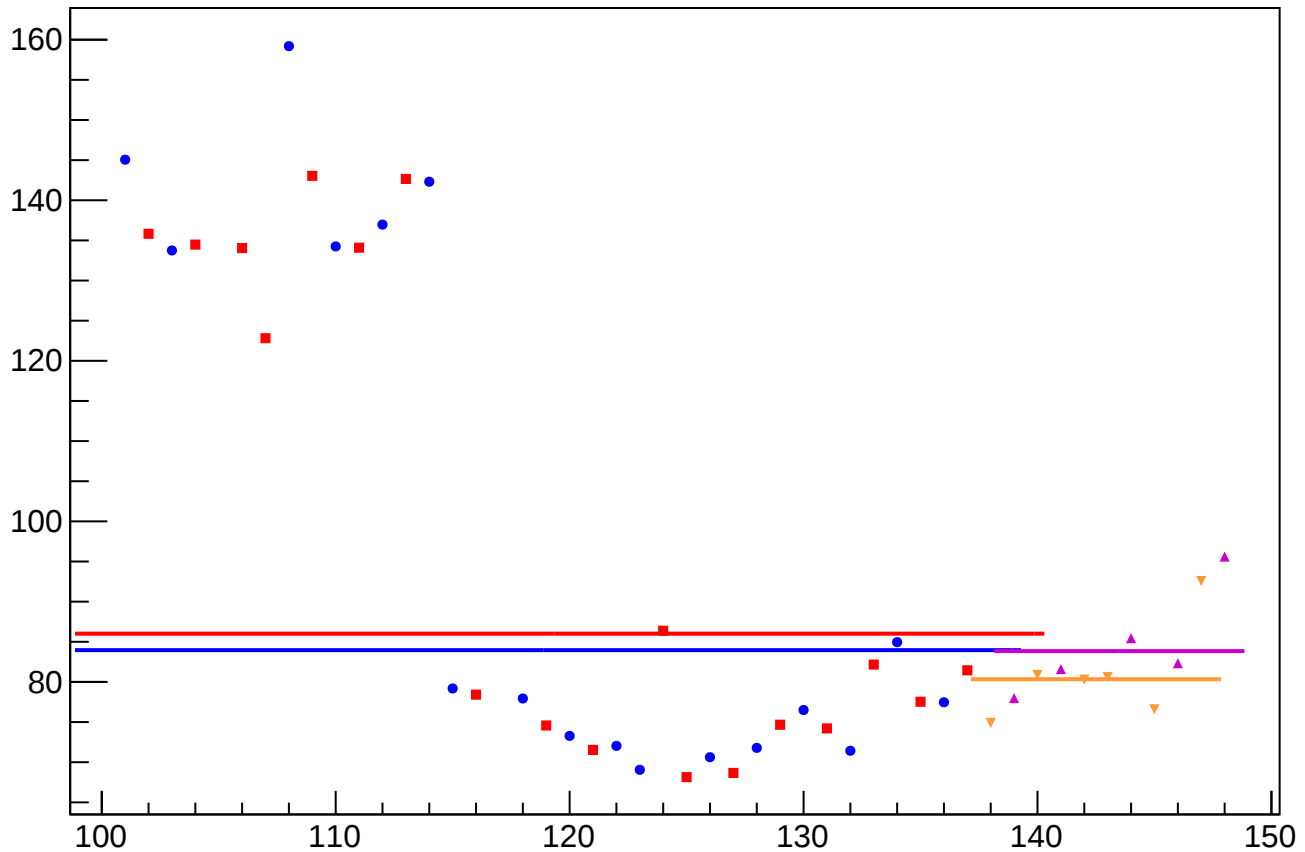
Left In:  $169.475 \pm 41.451$   $\chi^2/\text{NDF}: 5.5/4$

+ sign  $-18.580 \pm 25.444$   $\chi^2/\text{NDF}: 22.0/22$

All:  $22.052 \pm 18.258$   $\chi^2/\text{NDF}: 67.2/45$

- sign  $65.180 \pm 26.215$   $\chi^2/\text{NDF}: 40.0/22$

# dit\_asym\_sam1\_rms vs Slug



Right In: 83.961 $\pm$ 0.024  $\chi^2$ /NDF: 960253.6/16

Left Out: 80.342 $\pm$ 0.028  $\chi^2$ /NDF: 38808.3/5

Right Out: 86.012 $\pm$ 0.024  $\chi^2$ /NDF: 1026404.0/17

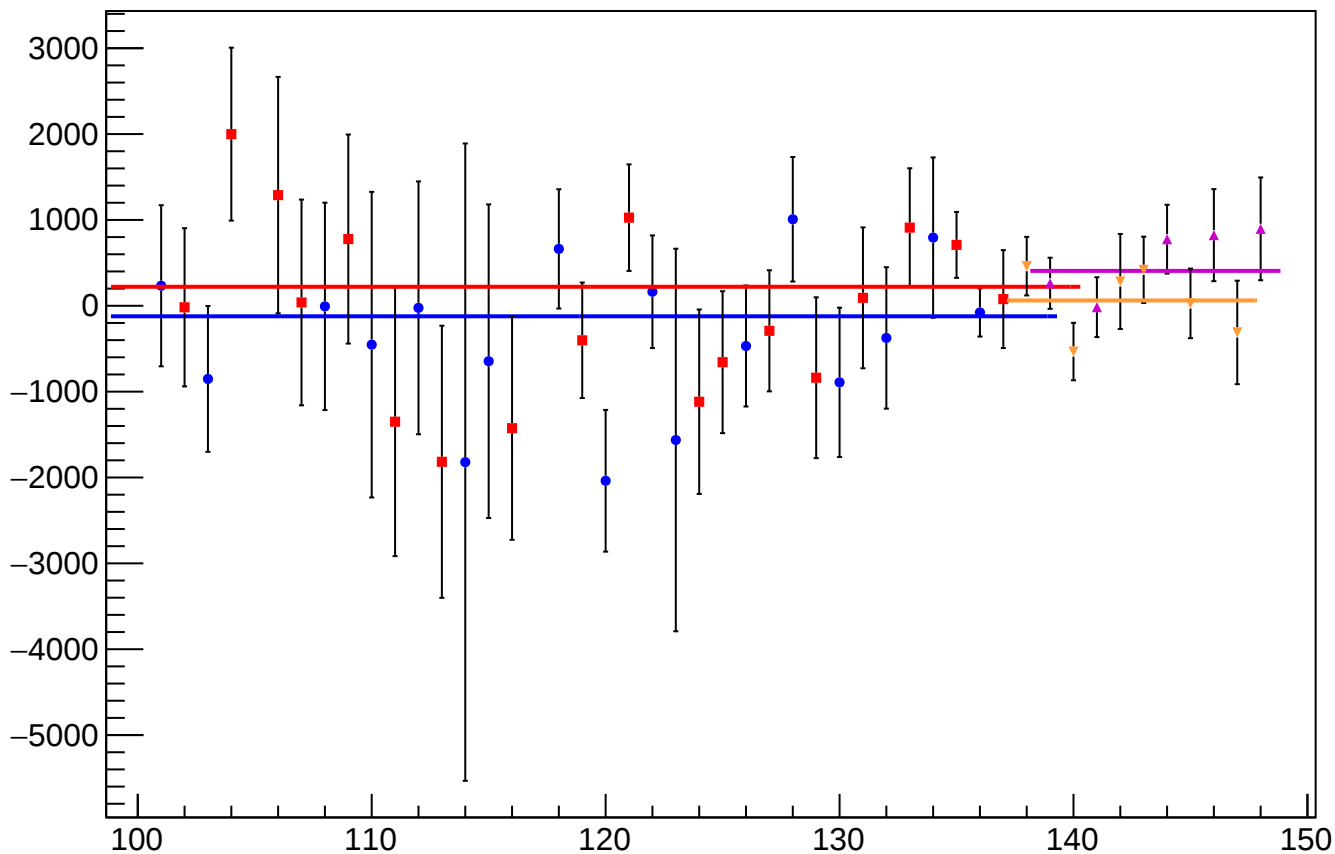
Left In: 83.842 $\pm$ 0.029  $\chi^2$ /NDF: 35961.4/4

+ sign 82.414 $\pm$ 0.018  $\chi^2$ /NDF: 1008960.8/22

All: 83.738 $\pm$ 0.013  $\chi^2$ /NDF: 2085785.1/45

- sign 85.144 $\pm$ 0.019  $\chi^2$ /NDF: 1065653.9/22

# asym\_sam1\_correction\_mean vs Slug



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}$ : 13.0/16

Left Out:  $61.939 \pm 165.898$   $\chi^2/\text{NDF}$ : 5.9/5

Right Out:  $221.525 \pm 185.098$   $\chi^2/\text{NDF}$ : 18.0/17

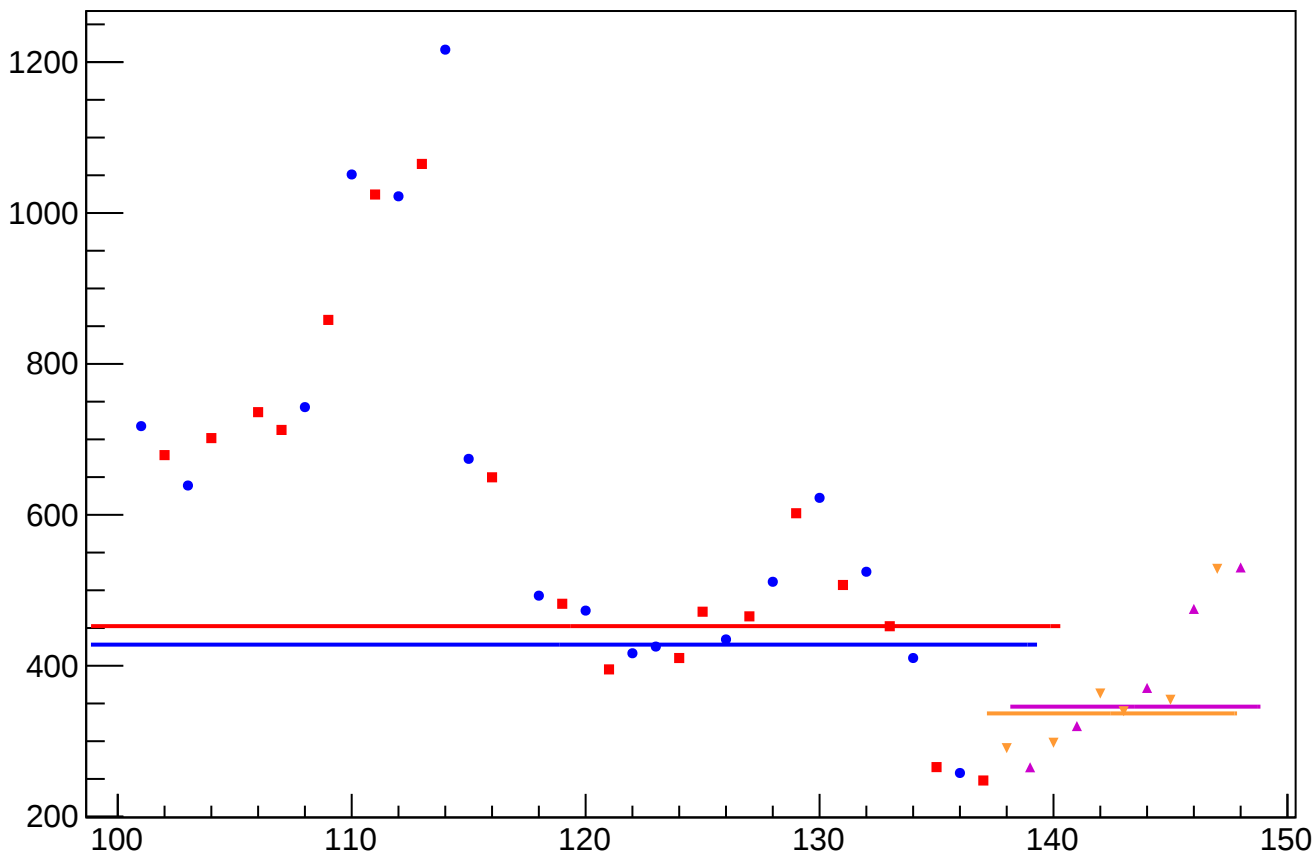
Left In:  $406.555 \pm 176.694$   $\chi^2/\text{NDF}$ : 3.8/4

+ sign  $-22.942 \pm 121.860$   $\chi^2/\text{NDF}$ : 19.5/22

All:  $139.569 \pm 88.196$   $\chi^2/\text{NDF}$ : 45.6/45

- sign  $318.336 \pm 127.809$   $\chi^2/\text{NDF}$ : 22.4/22

# asym\_sam1\_correction\_rms vs Slug



Right In:  $427.986 \pm 0.127$   $\chi^2/\text{NDF}: 2062245.9/16$

Left Out:  $336.829 \pm 0.117$   $\chi^2/\text{NDF}: 274338.6/5$

Right Out:  $452.508 \pm 0.131$   $\chi^2/\text{NDF}: 2073032.9/17$

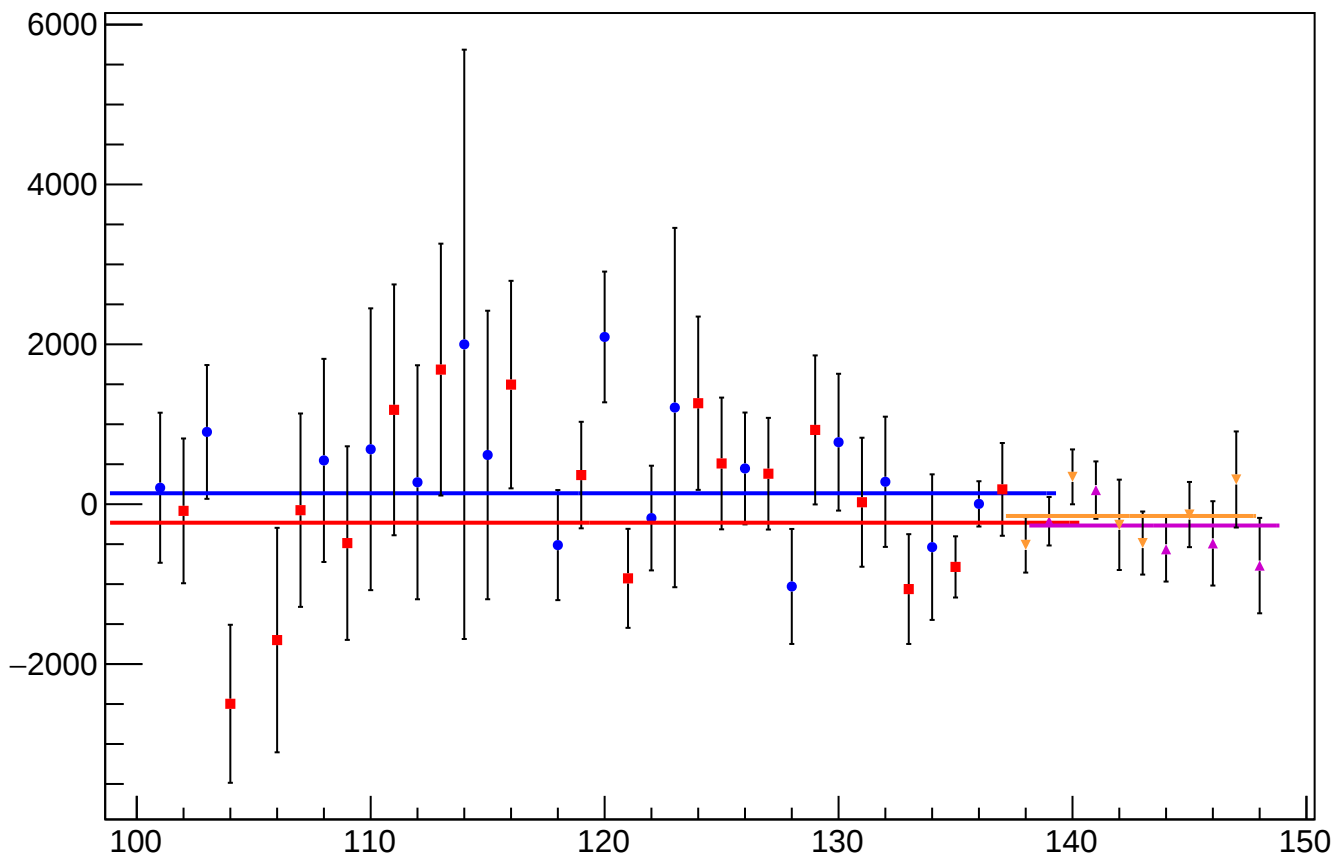
Left In:  $345.795 \pm 0.125$   $\chi^2/\text{NDF}: 471003.1/4$

+ sign  $378.801 \pm 0.086$   $\chi^2/\text{NDF}: 2614617.4/22$

All:  $387.312 \pm 0.062$   $\chi^2/\text{NDF}: 5526947.2/45$

- sign  $396.674 \pm 0.090$   $\chi^2/\text{NDF}: 2891843.5/22$

# asym\_sam1\_mean vs Slug



Right In:  $136.810 \pm 179.609$   $\chi^2/\text{NDF}: 12.6/16$

Left Out:  $-147.359 \pm 168.717$   $\chi^2/\text{NDF}: 4.5/5$

Right Out:  $-231.586 \pm 184.578$   $\chi^2/\text{NDF}: 21.8/17$

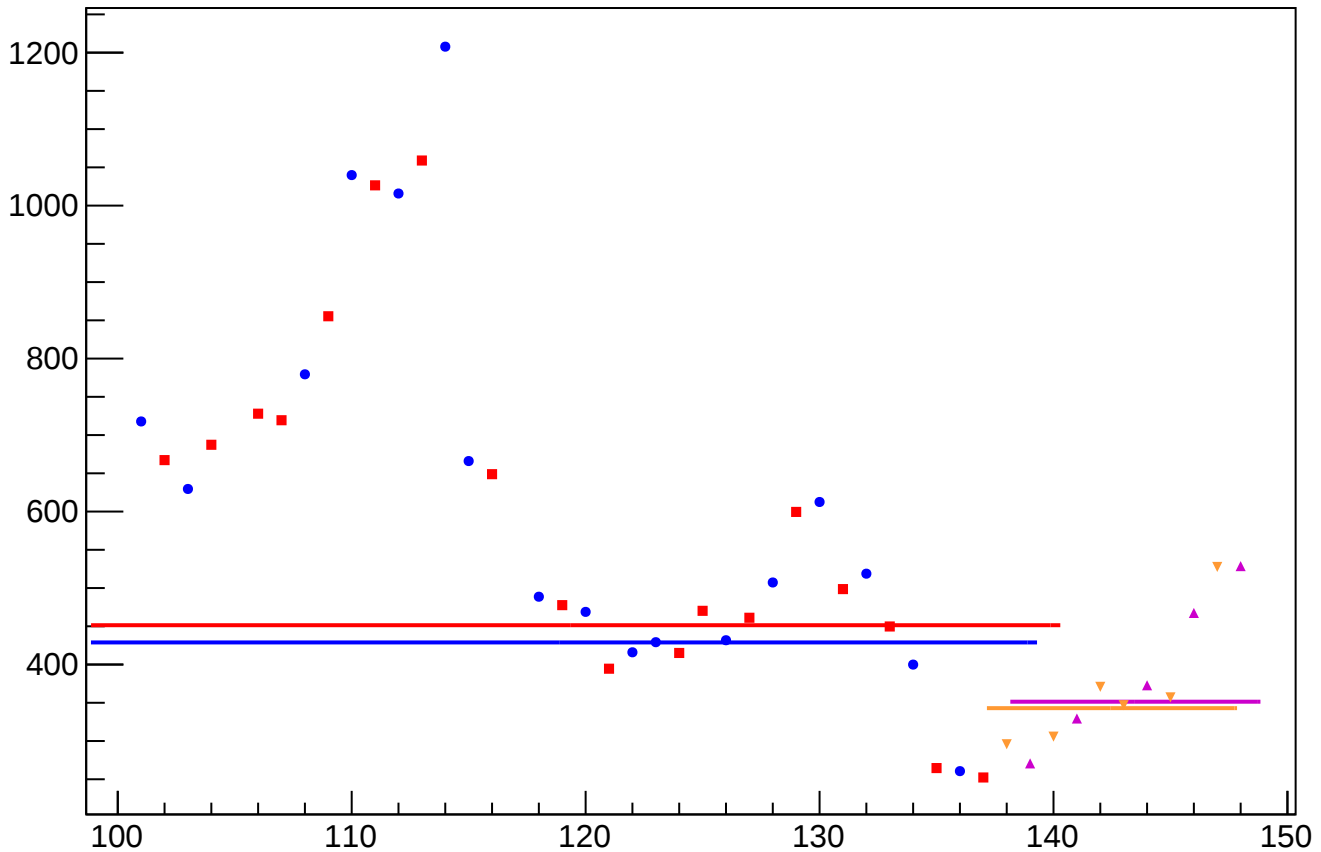
Left In:  $-266.846 \pm 179.134$   $\chi^2/\text{NDF}: 3.0/4$

+ sign  $-14.151 \pm 122.971$   $\chi^2/\text{NDF}: 18.4/22$

All:  $-126.726 \pm 88.860$   $\chi^2/\text{NDF}: 44.9/45$

- sign  $-249.744 \pm 128.549$   $\chi^2/\text{NDF}: 24.8/22$

# asym\_sam1\_rms vs Slug



Right In: 428.889 $\pm$ 0.127  $\chi^2$ /NDF: 2010592.5/16

Left Out: 342.966 $\pm$ 0.119  $\chi^2$ /NDF:256753.3/5

Right Out: 451.411 $\pm$ 0.131  $\chi^2$ /NDF: 2030742.8/17

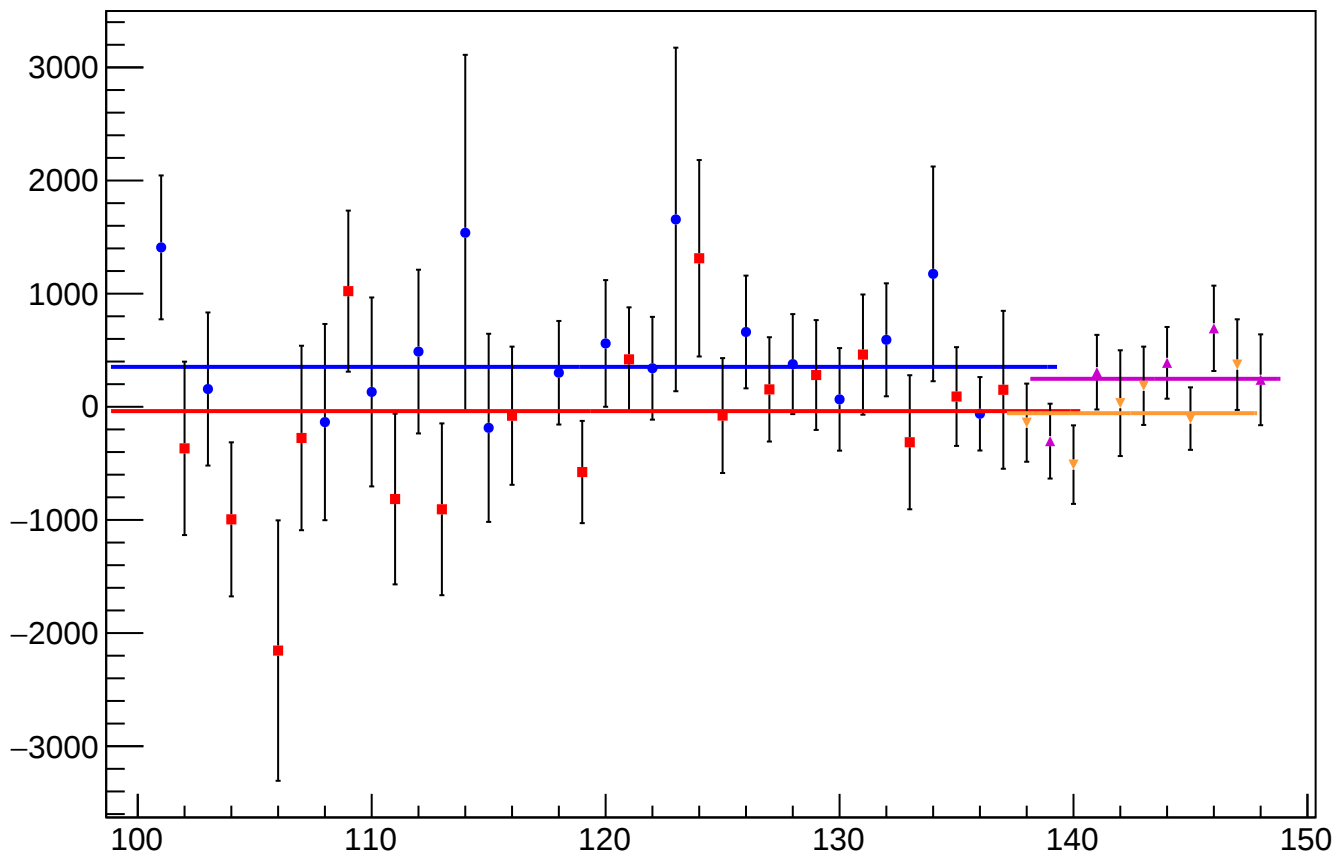
Left In: 351.400 $\pm$ 0.127  $\chi^2$ /NDF:427650.9/4

+ sign 383.244 $\pm$ 0.087  $\chi^2$ /NDF: 2510501.7/22

All: 391.207 $\pm$ 0.063  $\chi^2$ /NDF: 5288819.6/45

- sign 399.909 $\pm$ 0.091  $\chi^2$ /NDF: 2760766.5/22

# dit\_asym\_sam2\_mean vs Slug



Right In:  $352.927 \pm 137.298$   $\chi^2/\text{NDF}$ : 8.5/16

Left Out:  $-56.488 \pm 142.943$   $\chi^2/\text{NDF}$ : 3.5/5

Right Out:  $-37.982 \pm 139.023$   $\chi^2/\text{NDF}$ : 16.9/17

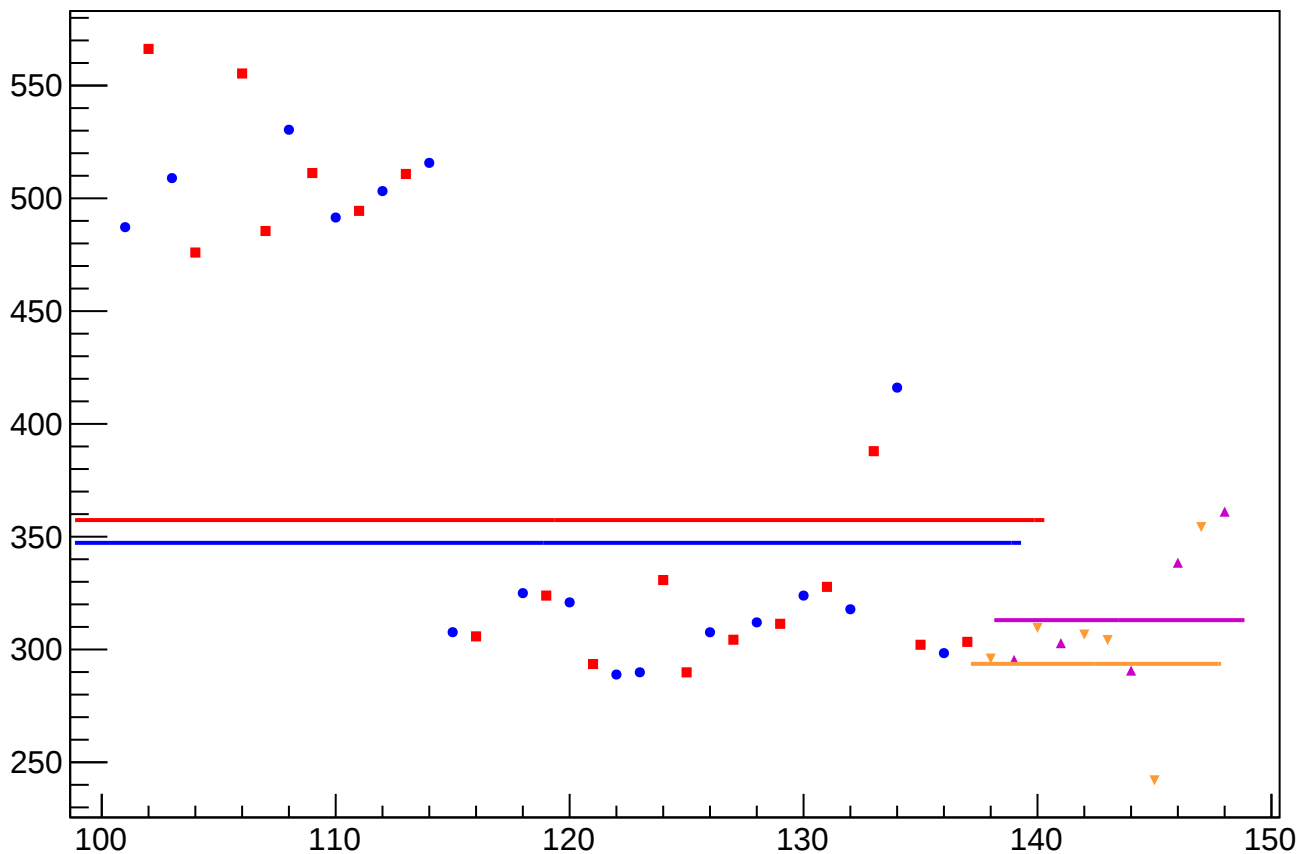
Left In:  $247.351 \pm 155.196$   $\chi^2/\text{NDF}$ : 4.4/4

+ sign  $156.463 \pm 99.020$   $\chi^2/\text{NDF}$ : 16.3/22

All:  $124.263 \pm 71.566$   $\chi^2/\text{NDF}$ : 39.7/45

- sign  $89.048 \pm 103.552$   $\chi^2/\text{NDF}$ : 23.2/22

# dit\_asym\_sam2\_rms vs Slug



Right In: 347.280 $\pm$ 0.097  $\chi^2$ /NDF: 618906.8/16

Left Out: 293.639 $\pm$ 0.101  $\chi^2$ /NDF:123406.1/5

Right Out: 357.365 $\pm$ 0.098  $\chi^2$ /NDF: 759938.5/17

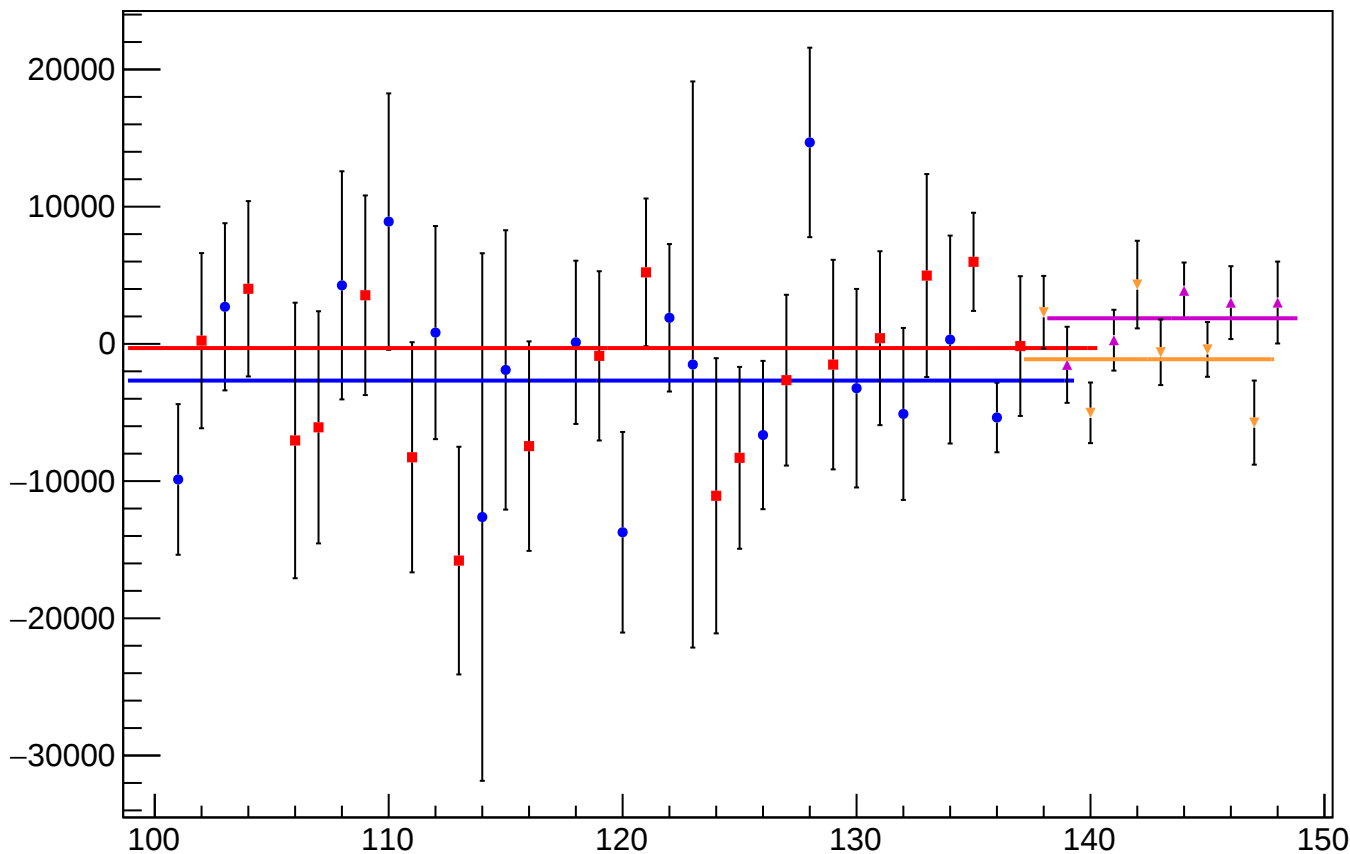
Left In: 313.012 $\pm$ 0.110  $\chi^2$ /NDF:55350.5/4

+ sign 321.539 $\pm$ 0.070  $\chi^2$ /NDF: 888802.7/22

All: 329.220 $\pm$ 0.051  $\chi^2$ /NDF: 1819905.7/45

- sign 337.619 $\pm$ 0.073  $\chi^2$ /NDF: 905912.1/22

# asym\_sam2\_correction\_mean vs Slug



Right In:  $-2674.025 \pm 1456.188$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-1119.804 \pm 1011.122$   $\chi^2/\text{NDF}$ : 10.1/5

Right Out:  $-304.817 \pm 1517.834$   $\chi^2/\text{NDF}$ : 14.4/17

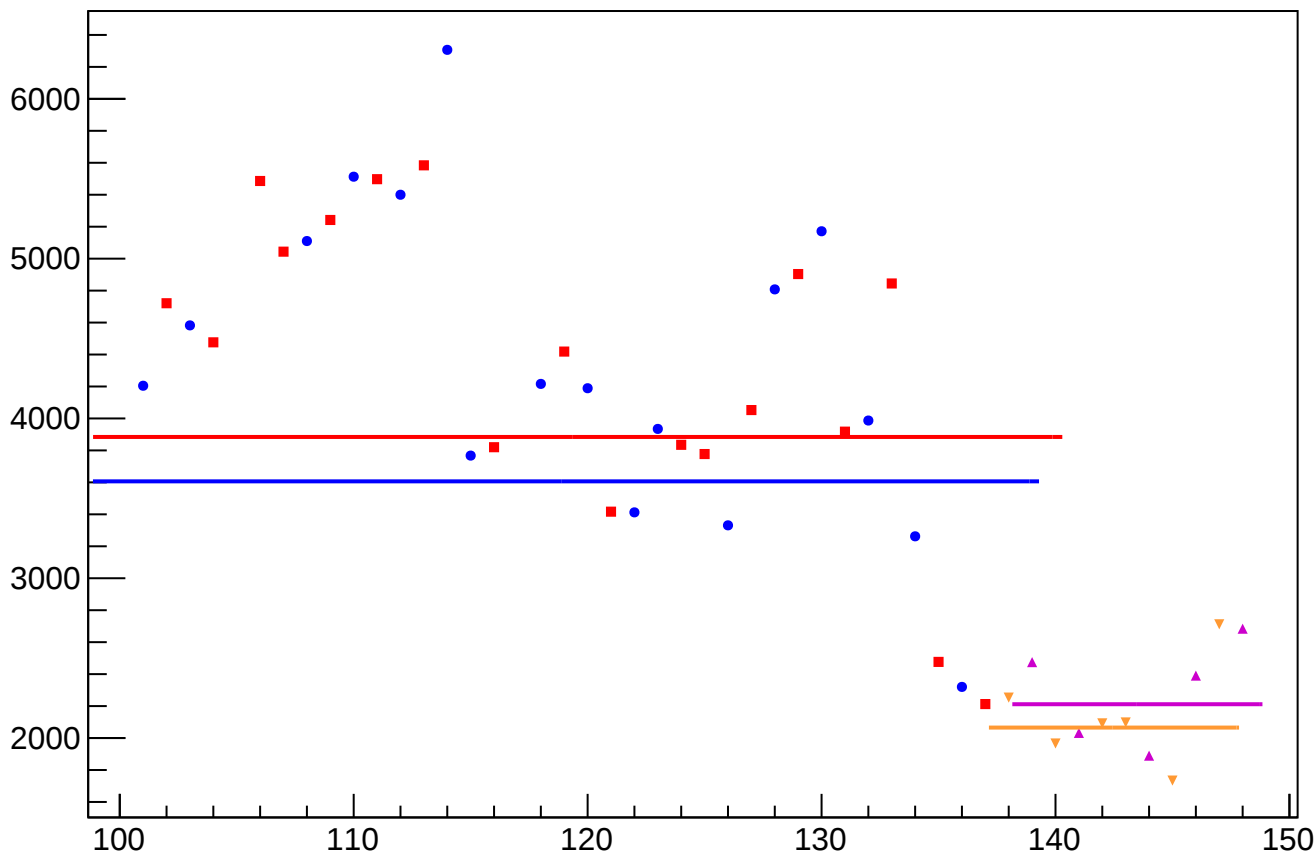
Left In:  $1866.333 \pm 1101.445$   $\chi^2/\text{NDF}$ : 3.3/4

+ sign  $-1625.391 \pm 830.537$   $\chi^2/\text{NDF}$ : 27.7/22

All:  $-350.909 \pm 607.675$   $\chi^2/\text{NDF}$ : 51.7/45

- sign  $1117.400 \pm 891.458$   $\chi^2/\text{NDF}$ : 19.0/22

# asym\_sam2\_correction\_rms vs Slug



Right In: 3606.359+/-1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2065.498+/-0.715  $\chi^2/\text{NDF}$ :158834.9/5

Right Out: 3884.203+/-1.073  $\chi^2/\text{NDF}$ : 994574.5/17

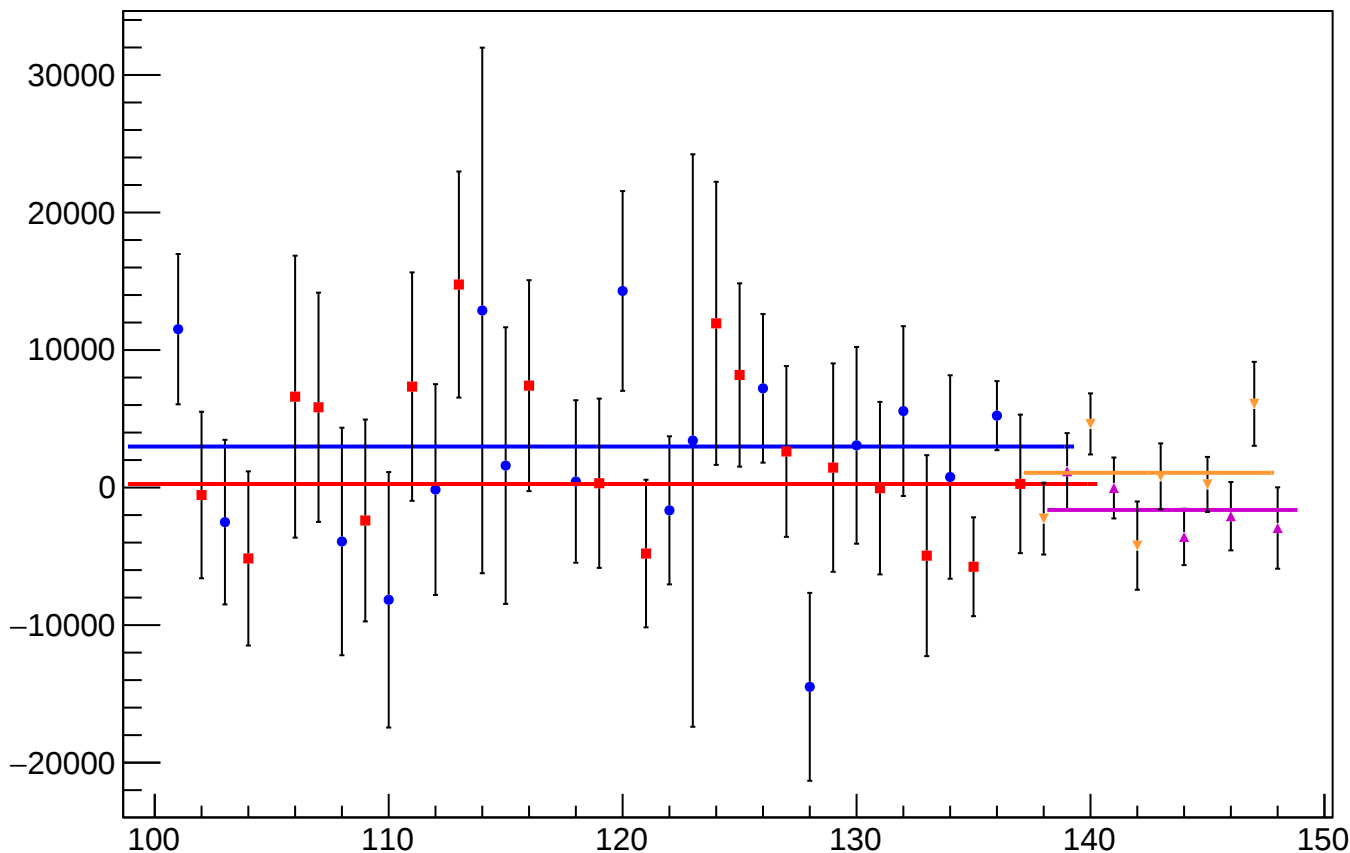
Left In: 2211.655+/-0.779  $\chi^2/\text{NDF}$ :139473.5/4

+ sign 2566.739+/-0.587  $\chi^2/\text{NDF}$ : 2762243.9/22

All: 2669.829+/-0.430  $\chi^2/\text{NDF}$ : 5553403.1/45

- sign 2788.596+/-0.630  $\chi^2/\text{NDF}$ : 2724846.1/22

# asym\_sam2\_mean vs Slug



Right In: 2983.609+/-1443.630  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1074.792+/-1011.063  $\chi^2/\text{NDF}$ : 9.8/5

Right Out: 259.721+/-1510.344  $\chi^2/\text{NDF}$ : 13.5/17

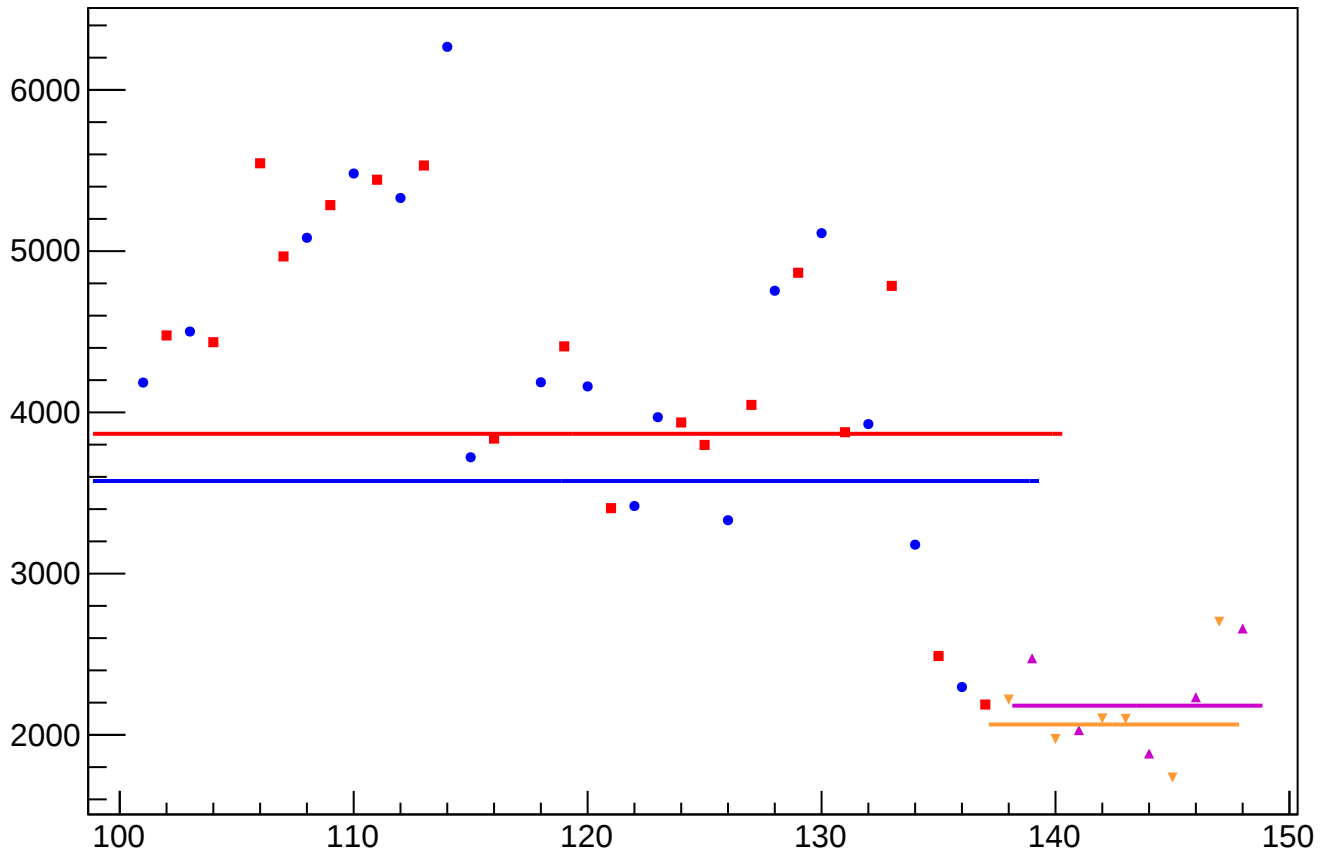
Left In: -1625.818+/-1086.089  $\chi^2/\text{NDF}$ : 2.7/4

+ sign 1702.959+/-828.154  $\chi^2/\text{NDF}$ : 28.4/22

All: 444.062+/-603.660  $\chi^2/\text{NDF}$ : 50.6/45

- sign -983.132+/-881.775  $\chi^2/\text{NDF}$ : 17.2/22

# asym\_sam2\_rms vs Slug



Right In: 3574.362 $\pm$ 1.021  $\chi^2$ /NDF: 1091350.4/16

Left Out: 2064.427 $\pm$ 0.715  $\chi^2$ /NDF:152350.4/5

Right Out: 3867.232 $\pm$ 1.068  $\chi^2$ /NDF: 968137.9/17

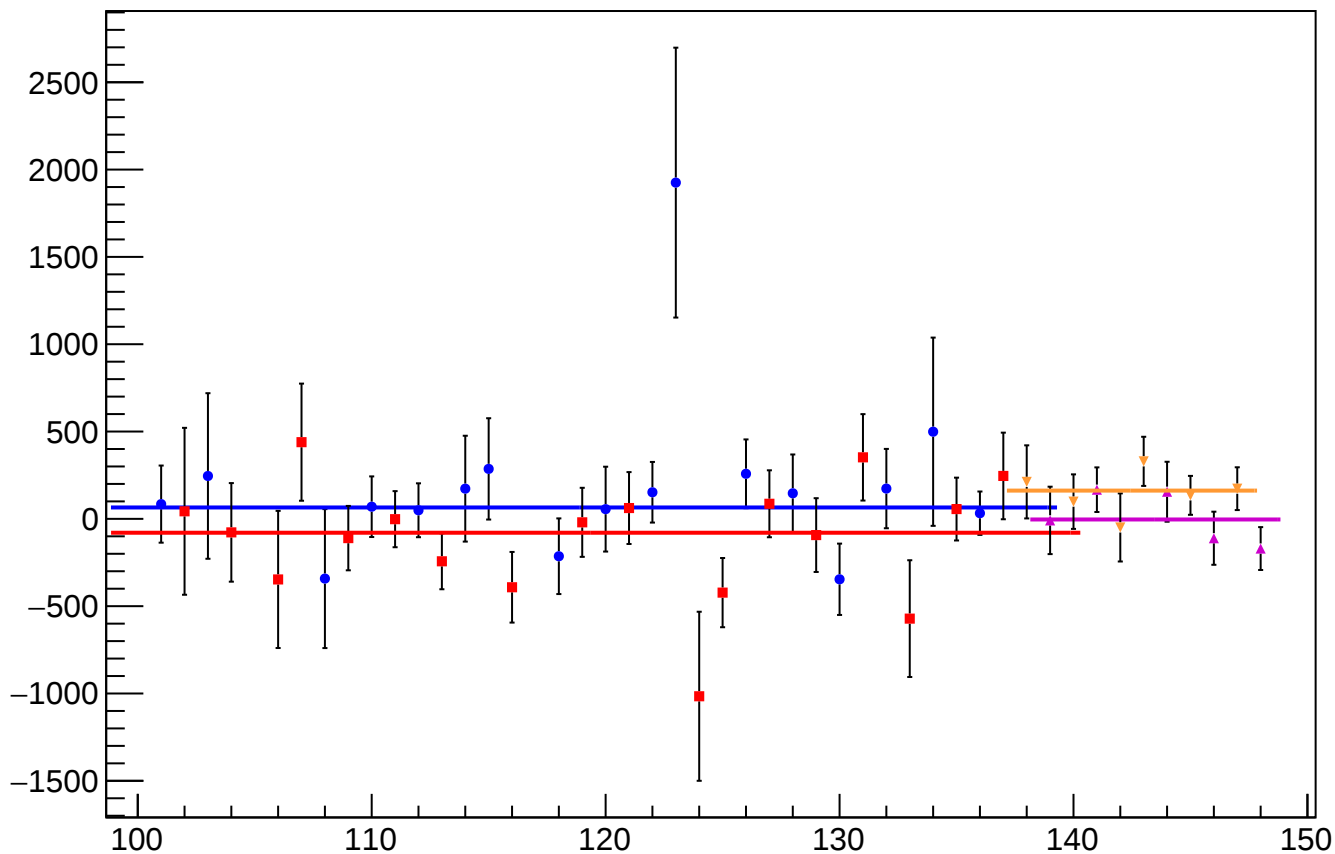
Left In: 2181.155 $\pm$ 0.768  $\chi^2$ /NDF:126921.7/4

+ sign 2561.327 $\pm$ 0.586  $\chi^2$ /NDF: 2711617.0/22

All: 2652.497 $\pm$ 0.427  $\chi^2$ /NDF: 5501316.0/45

- sign 2755.855 $\pm$ 0.624  $\chi^2$ /NDF: 2737981.3/22

# dit\_asym\_sam3\_mean vs Slug



Right In:  $65.225 \pm 52.700$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $161.816 \pm 58.939$   $\chi^2/\text{NDF}$ : 2.9/5

Right Out:  $-79.473 \pm 52.344$   $\chi^2/\text{NDF}$ : 22.2/17

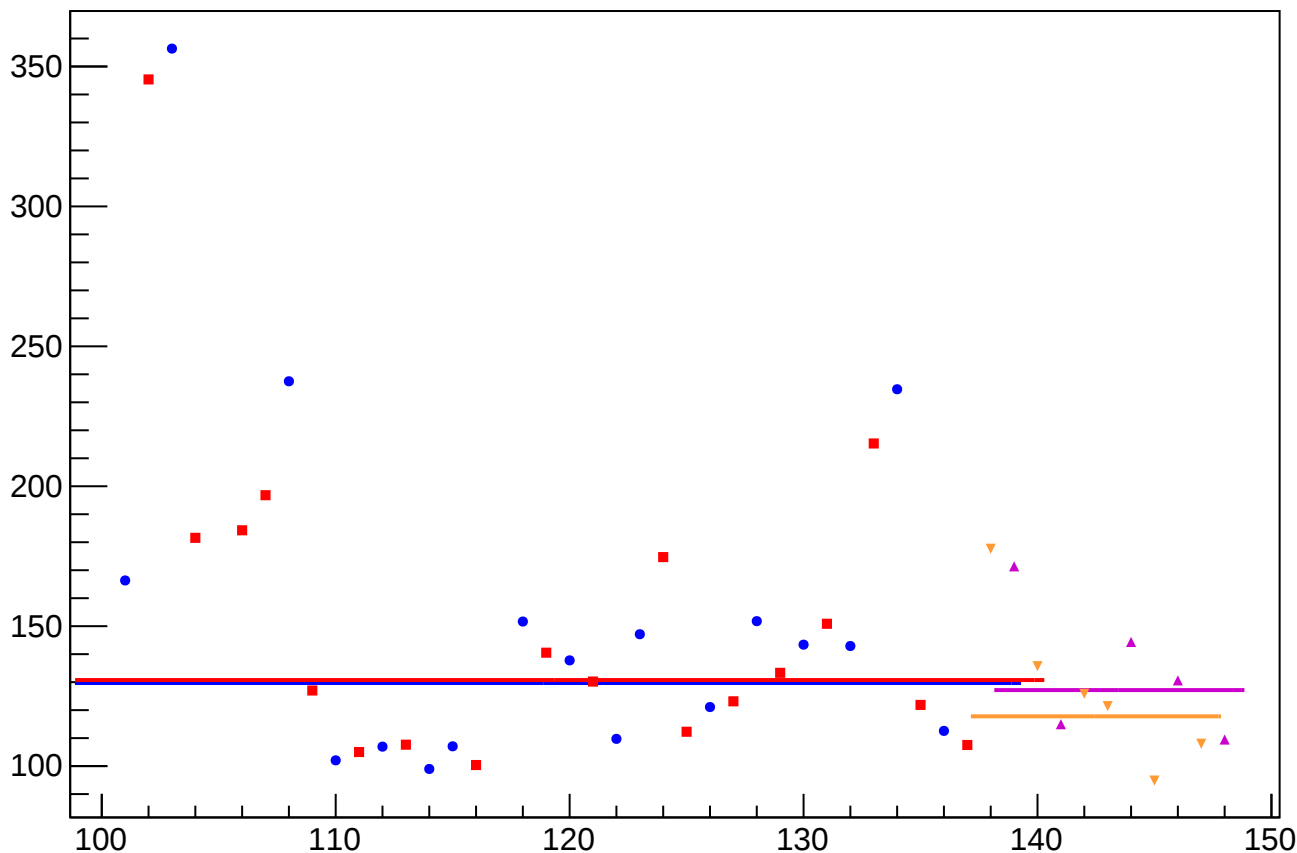
Left In:  $-3.552 \pm 65.685$   $\chi^2/\text{NDF}$ : 5.0/4

+ sign  $108.139 \pm 39.286$   $\chi^2/\text{NDF}$ : 20.1/22

All:  $32.327 \pm 28.345$   $\chi^2/\text{NDF}$ : 55.8/45

- sign  $-49.986 \pm 40.936$   $\chi^2/\text{NDF}$ : 28.0/22

# dit\_asym\_sam3\_rms vs Slug



Right In:  $129.697 \pm 0.037$   $\chi^2/\text{NDF}$ : 989682.4/16

Left Out:  $117.778 \pm 0.042$   $\chi^2/\text{NDF}$ : 292559.8/5

Right Out:  $130.751 \pm 0.037$   $\chi^2/\text{NDF}$ : 927534.3/17

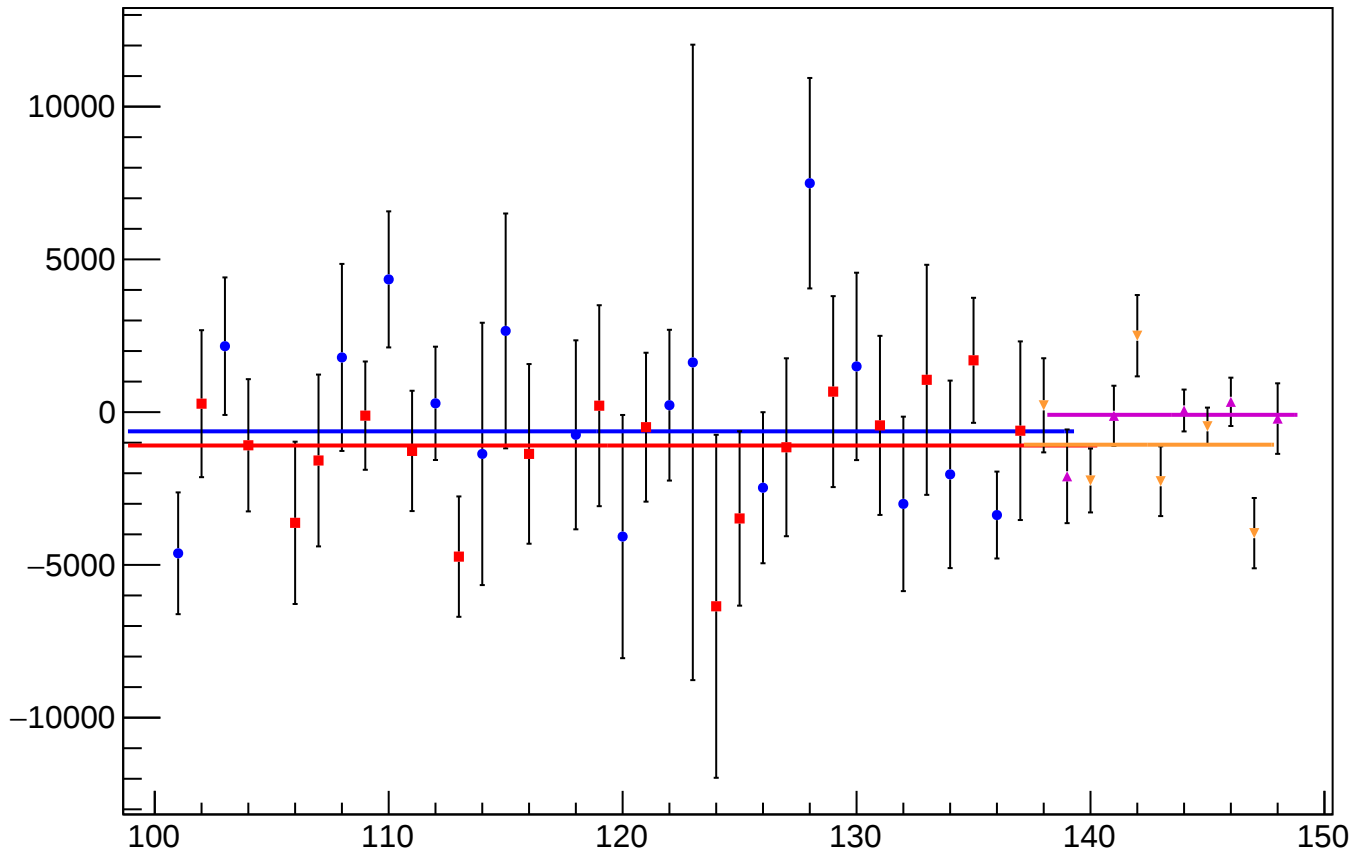
Left In:  $127.166 \pm 0.046$   $\chi^2/\text{NDF}$ : 185841.1/4

+ sign  $124.401 \pm 0.028$   $\chi^2/\text{NDF}$ : 1327690.8/22

All:  $126.778 \pm 0.020$   $\chi^2/\text{NDF}$ : 2459979.8/45

- sign  $129.359 \pm 0.029$   $\chi^2/\text{NDF}$ : 1117020.8/22

# asym\_sam3\_correction\_mean vs Slug



Right In:  $-628.175 \pm 621.486$   $\chi^2/\text{NDF}$ : 24.3/16

Left Out:  $-1065.696 \pm 404.787$   $\chi^2/\text{NDF}$ : 17.5/5

Right Out:  $-1091.945 \pm 599.483$   $\chi^2/\text{NDF}$ : 9.4/17

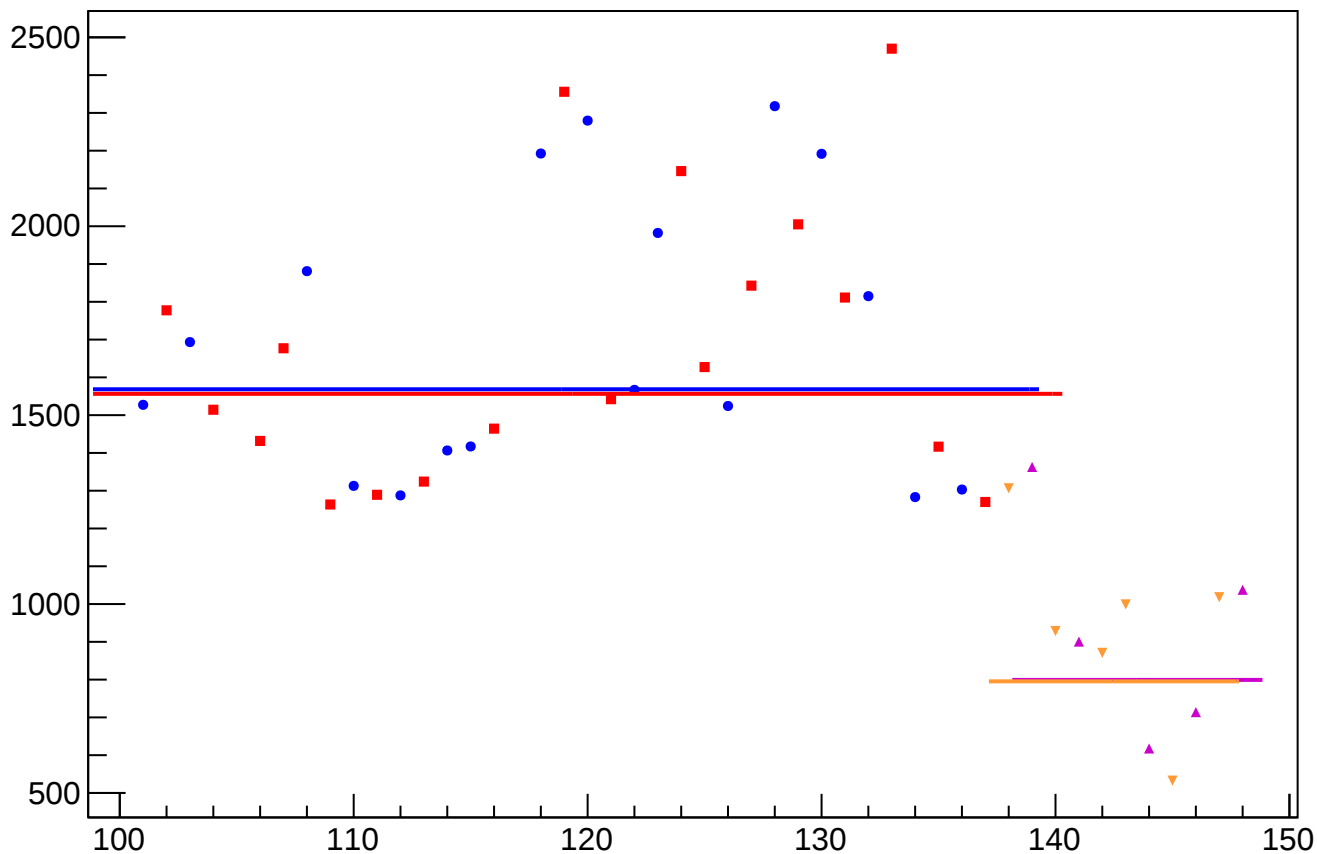
Left In:  $-87.814 \pm 410.430$   $\chi^2/\text{NDF}$ : 2.1/4

+ sign  $-935.376 \pm 339.186$   $\chi^2/\text{NDF}$ : 42.2/22

All:  $-671.418 \pm 239.656$   $\chi^2/\text{NDF}$ : 56.7/45

- sign  $-408.274 \pm 338.663$   $\chi^2/\text{NDF}$ : 13.3/22

# asym\_sam3\_correction\_rms vs Slug



Right In:  $1568.480 \pm 0.439$   $\chi^2/\text{NDF}$ : 534197.6/16

Left Out:  $795.427 \pm 0.286$   $\chi^2/\text{NDF}$ : 767747.9/5

Right Out:  $1556.423 \pm 0.424$   $\chi^2/\text{NDF}$ : 510453.6/17

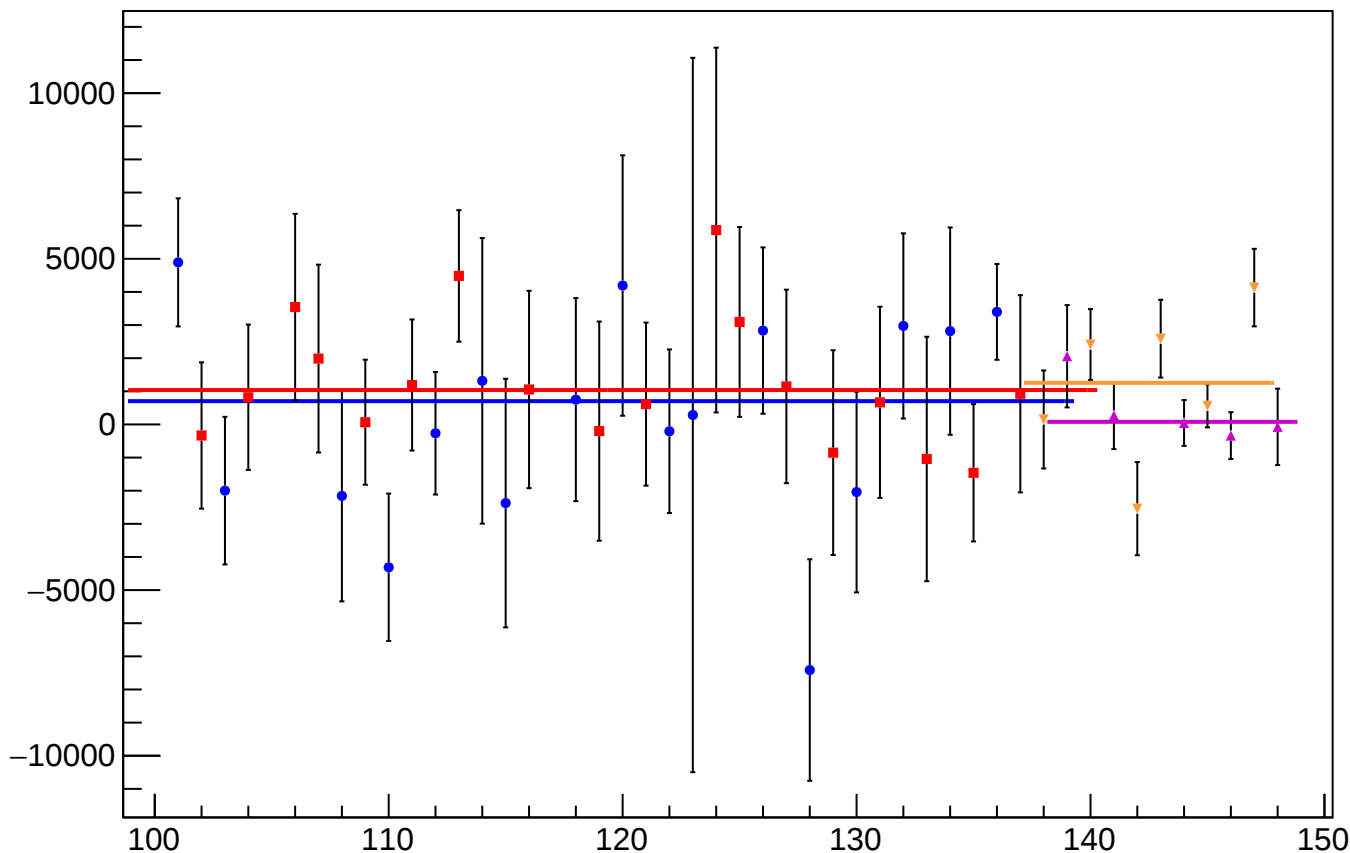
Left In:  $799.256 \pm 0.290$   $\chi^2/\text{NDF}$ : 540640.5/4

+ sign  $1025.689 \pm 0.240$   $\chi^2/\text{NDF}$ : 3474689.3/22

All:  $1033.306 \pm 0.169$   $\chi^2/\text{NDF}$ : 6700084.6/45

- sign  $1040.899 \pm 0.239$   $\chi^2/\text{NDF}$ : 3223381.3/22

# asym\_sam3\_mean vs Slug



Right In: 703.057 $\pm$ 620.618  $\chi^2$ /NDF: 26.0/16

Left Out: 1256.934 $\pm$ 420.552  $\chi^2$ /NDF:17.5/5

Right Out: 1038.423 $\pm$ 604.250  $\chi^2$ /NDF: 8.2/17

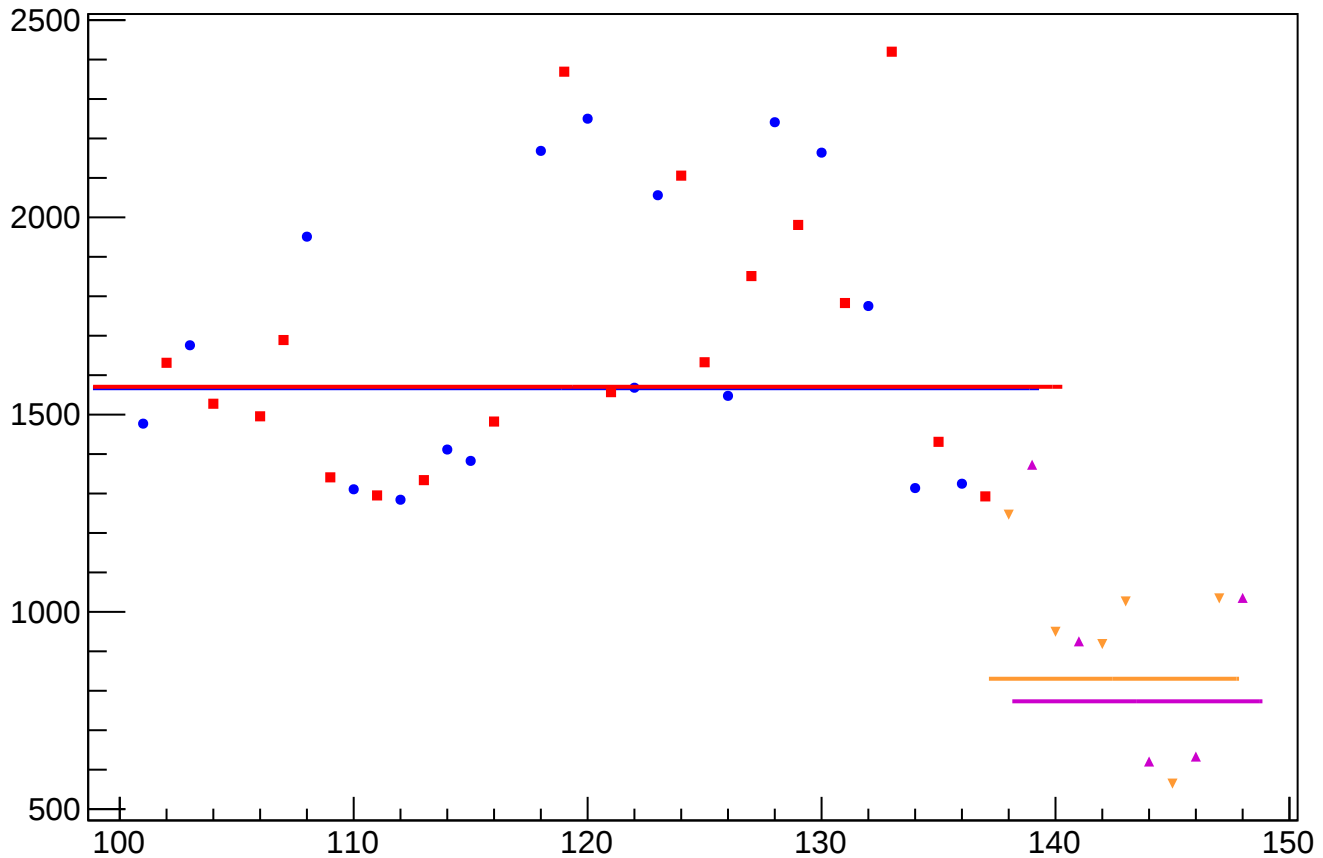
Left In: 78.757 $\pm$ 400.963  $\chi^2$ /NDF:2.0/4

+ sign 1082.636 $\pm$ 348.148  $\chi^2$ /NDF: 44.0/22

All: 712.763 $\pm$ 241.057  $\chi^2$ /NDF: 58.2/45

- sign 372.140 $\pm$ 334.098  $\chi^2$ /NDF: 12.0/22

# asym\_sam3\_rms vs Slug



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 830.481 $\pm$ 0.297  $\chi^2$ /NDF:641115.3/5

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

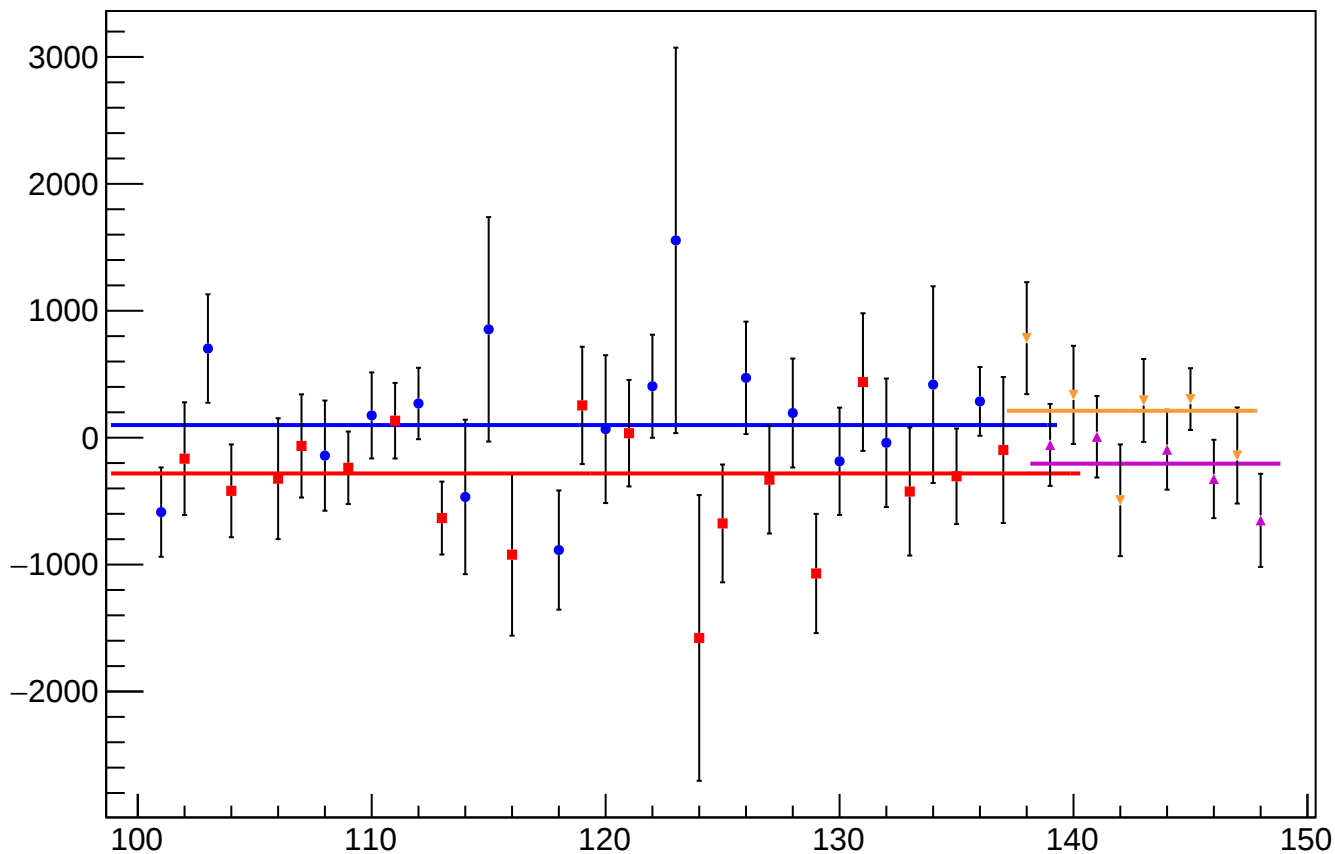
Left In: 773.284 $\pm$ 0.284  $\chi^2$ /NDF:625196.3/4

+ sign 1062.234 $\pm$ 0.246  $\chi^2$ /NDF: 3070984.5/22

All: 1038.696 $\pm$ 0.170  $\chi^2$ /NDF: 6570361.8/45

- sign 1017.018 $\pm$ 0.236  $\chi^2$ /NDF: 3481815.4/22

# dit\_asym\_sam4\_mean vs Slug



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $211.792 \pm 141.171$   $\chi^2/\text{NDF}$ : 5.4/5

Right Out:  $-281.830 \pm 97.880$   $\chi^2/\text{NDF}$ : 13.7/17

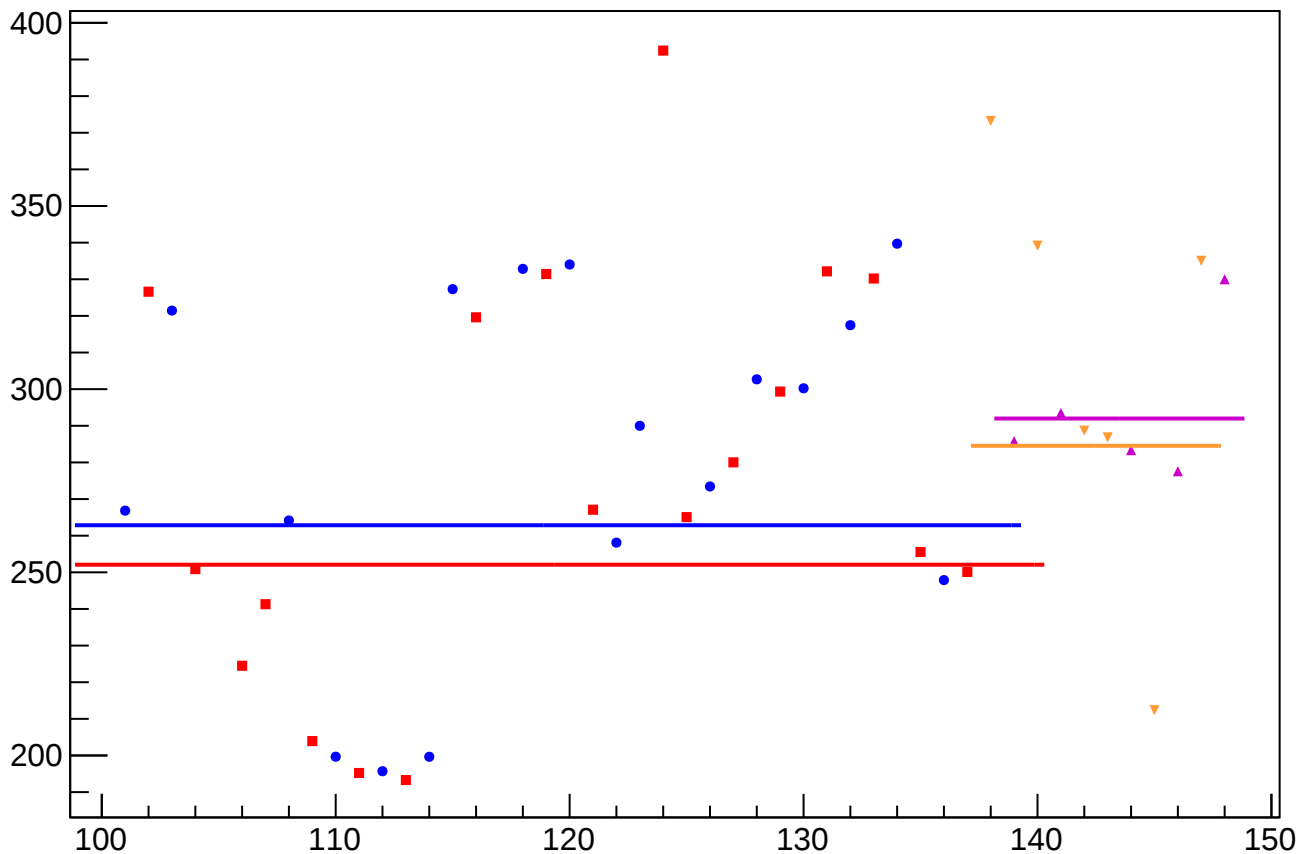
Left In:  $-204.737 \pm 145.410$   $\chi^2/\text{NDF}$ : 2.4/4

+ sign  $138.666 \pm 83.451$   $\chi^2/\text{NDF}$ : 21.8/22

All:  $-64.986 \pm 58.196$   $\chi^2/\text{NDF}$ : 49.7/45

- sign  $-257.791 \pm 81.198$   $\chi^2/\text{NDF}$ : 16.3/22

# dit\_asym\_sam4\_rms vs Slug



Right In: 262.856 $\pm$ 0.073  $\chi^2$ /NDF: 411698.3/16

Left Out: 284.539 $\pm$ 0.100  $\chi^2$ /NDF: 332153.9/5

Right Out: 252.079 $\pm$ 0.069  $\chi^2$ /NDF: 515150.4/17

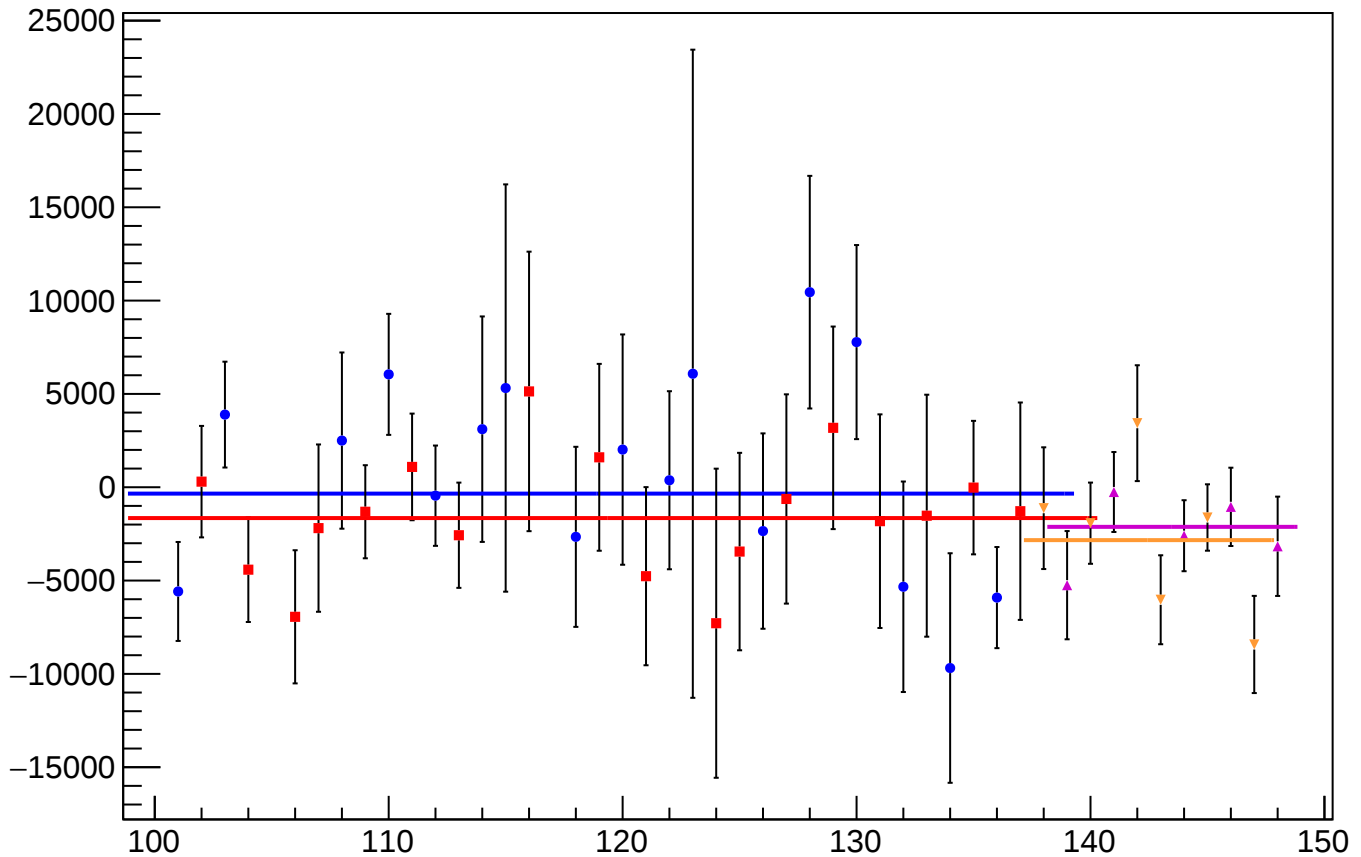
Left In: 291.985 $\pm$ 0.103  $\chi^2$ /NDF: 28086.4/4

+ sign 270.433 $\pm$ 0.059  $\chi^2$ /NDF: 774544.9/22

All: 267.397 $\pm$ 0.041  $\chi^2$ /NDF: 1426595.8/45

- sign 264.523 $\pm$ 0.057  $\chi^2$ /NDF: 646897.5/22

# asym\_sam4\_correction\_mean vs Slug



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}$ : 24.4/16

Left Out:  $-2834.261 \pm 976.474$   $\chi^2/\text{NDF}$ : 11.4/5

Right Out:  $-1651.954 \pm 929.858$   $\chi^2/\text{NDF}$ : 7.9/17

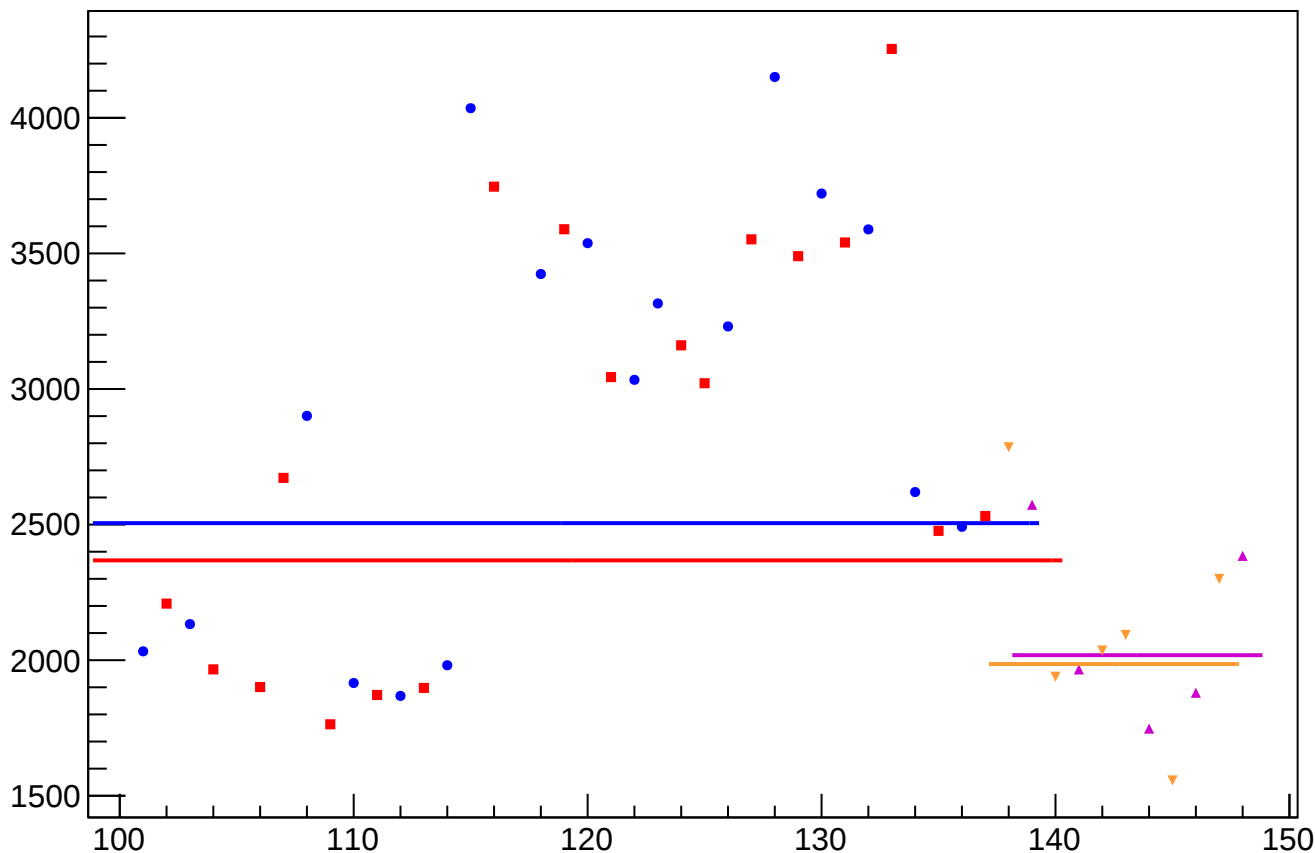
Left In:  $-2121.981 \pm 1009.176$   $\chi^2/\text{NDF}$ : 2.4/4

+ sign  $-1623.325 \pm 700.215$   $\chi^2/\text{NDF}$ : 39.0/22

All:  $-1748.442 \pm 489.232$   $\chi^2/\text{NDF}$ : 49.5/45

- sign  $-1867.772 \pm 683.833$   $\chi^2/\text{NDF}$ : 10.5/22

# asym\_sam4\_correction\_rms vs Slug



Right In: 2505.329 $\pm$ 0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 1985.752 $\pm$ 0.690  $\chi^2/\text{NDF}$ : 271274.0/5

Right Out: 2368.003 $\pm$ 0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

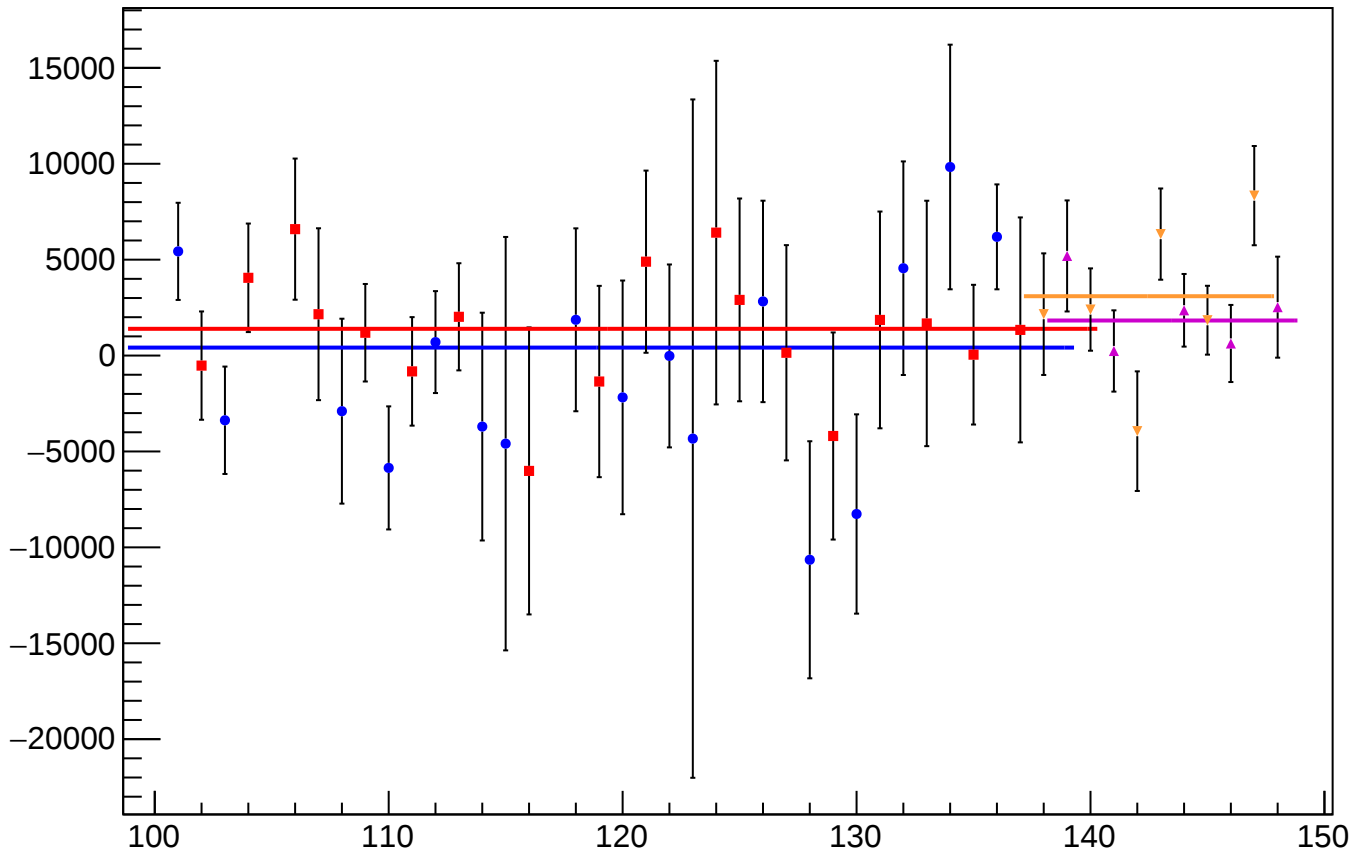
Left In: 2018.402 $\pm$ 0.714  $\chi^2/\text{NDF}$ : 161517.8/4

+ sign 2238.156 $\pm$ 0.495  $\chi^2/\text{NDF}$ : 1410486.2/22

All: 2222.455 $\pm$ 0.346  $\chi^2/\text{NDF}$ : 2734658.9/45

- sign 2207.479 $\pm$ 0.484  $\chi^2/\text{NDF}$ : 1322207.8/22

# asym\_sam4\_mean vs Slug



Right In: 415.549 $\pm$ 994.913  $\chi^2$ /NDF: 24.5/16

Left Out: 3094.320 $\pm$ 973.205  $\chi^2$ /NDF:11.7/5

Right Out: 1394.660 $\pm$ 928.996  $\chi^2$ /NDF: 7.5/17

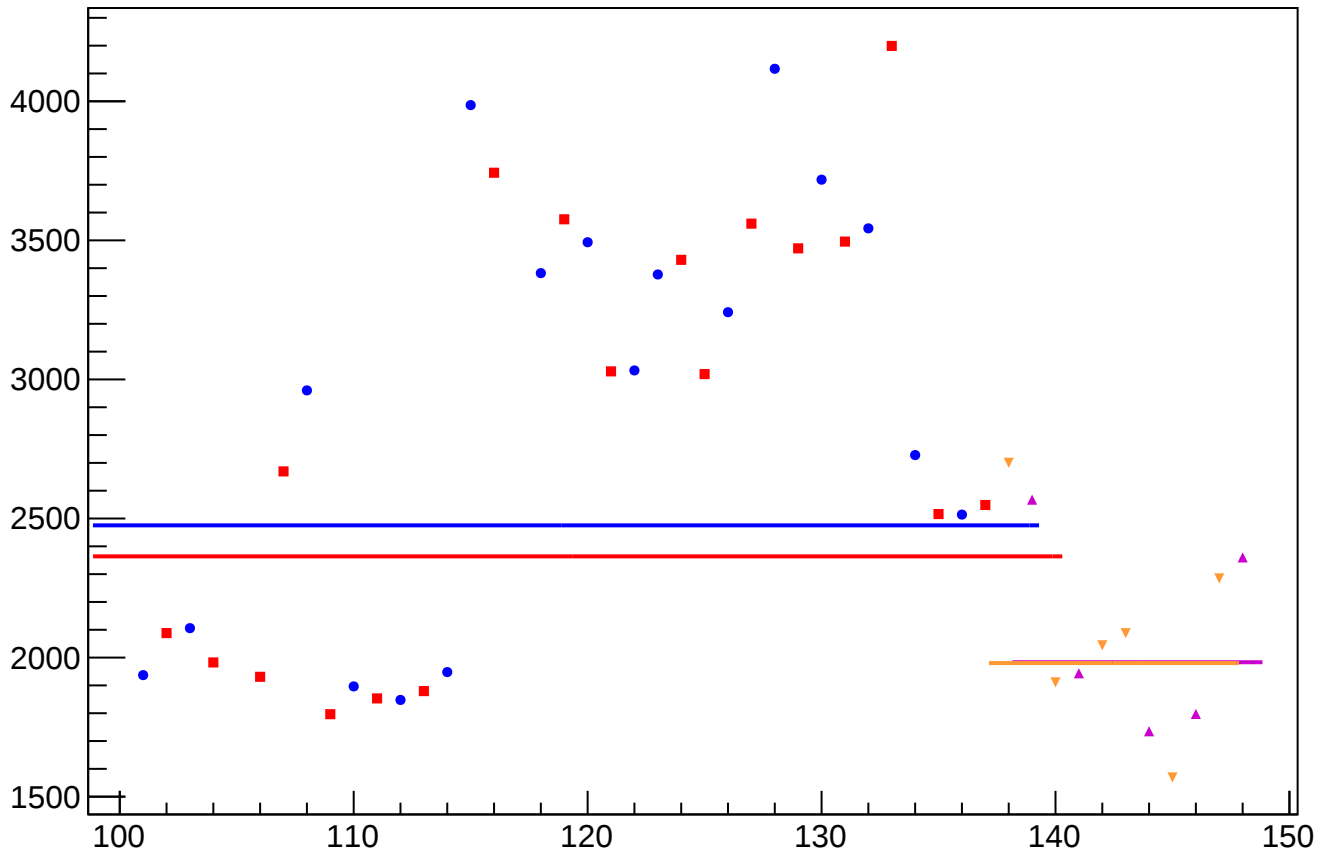
Left In: 1827.923 $\pm$ 993.760  $\chi^2$ /NDF:2.4/4

+ sign 1784.478 $\pm$ 695.708  $\chi^2$ /NDF: 39.9/22

All: 1688.265 $\pm$ 485.793  $\chi^2$ /NDF: 50.0/45

- sign 1596.715 $\pm$ 678.641  $\chi^2$ /NDF: 10.0/22

# asym\_sam4\_rms vs Slug



Right In: 2475.435+/-0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 1980.319+/-0.688  $\chi^2/\text{NDF}$ : 242811.5/5

Right Out: 2363.907+/-0.657  $\chi^2/\text{NDF}$ : 1026875.6/17

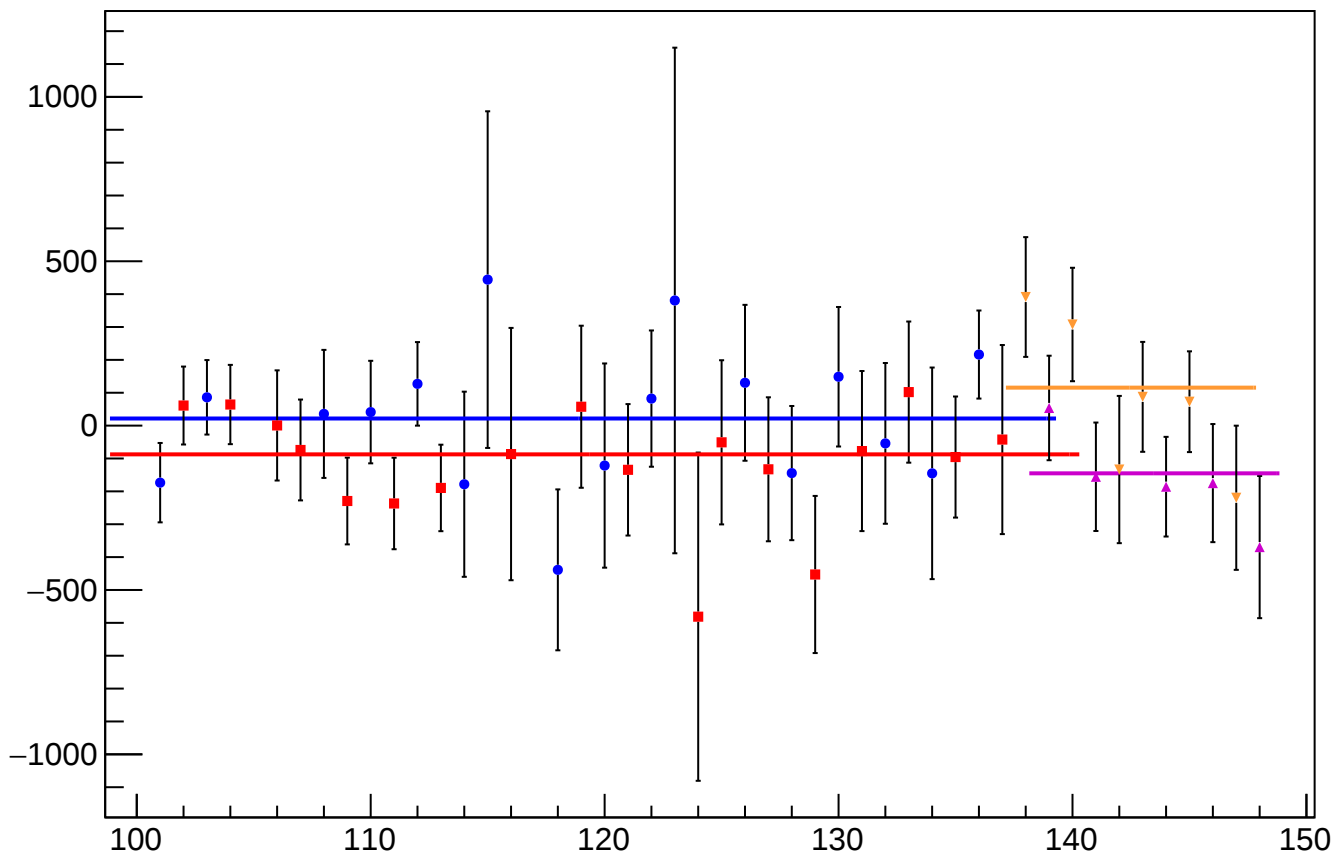
Left In: 1983.321+/-0.703  $\chi^2/\text{NDF}$ : 174660.7/4

+ sign 2222.416+/-0.492  $\chi^2/\text{NDF}$ : 1408999.9/22

All: 2203.971+/-0.344  $\chi^2/\text{NDF}$ : 2769820.1/45

- sign 2186.419+/-0.480  $\chi^2/\text{NDF}$ : 1358076.4/22

# dit\_asym\_sam5\_mean vs Slug



Right In: 21.649 $\pm$ 45.157  $\chi^2$ /NDF: 12.6/16

Left Out: 115.539 $\pm$ 73.967  $\chi^2$ /NDF: 7.2/5

Right Out: -87.439 $\pm$ 41.826  $\chi^2$ /NDF: 10.9/17

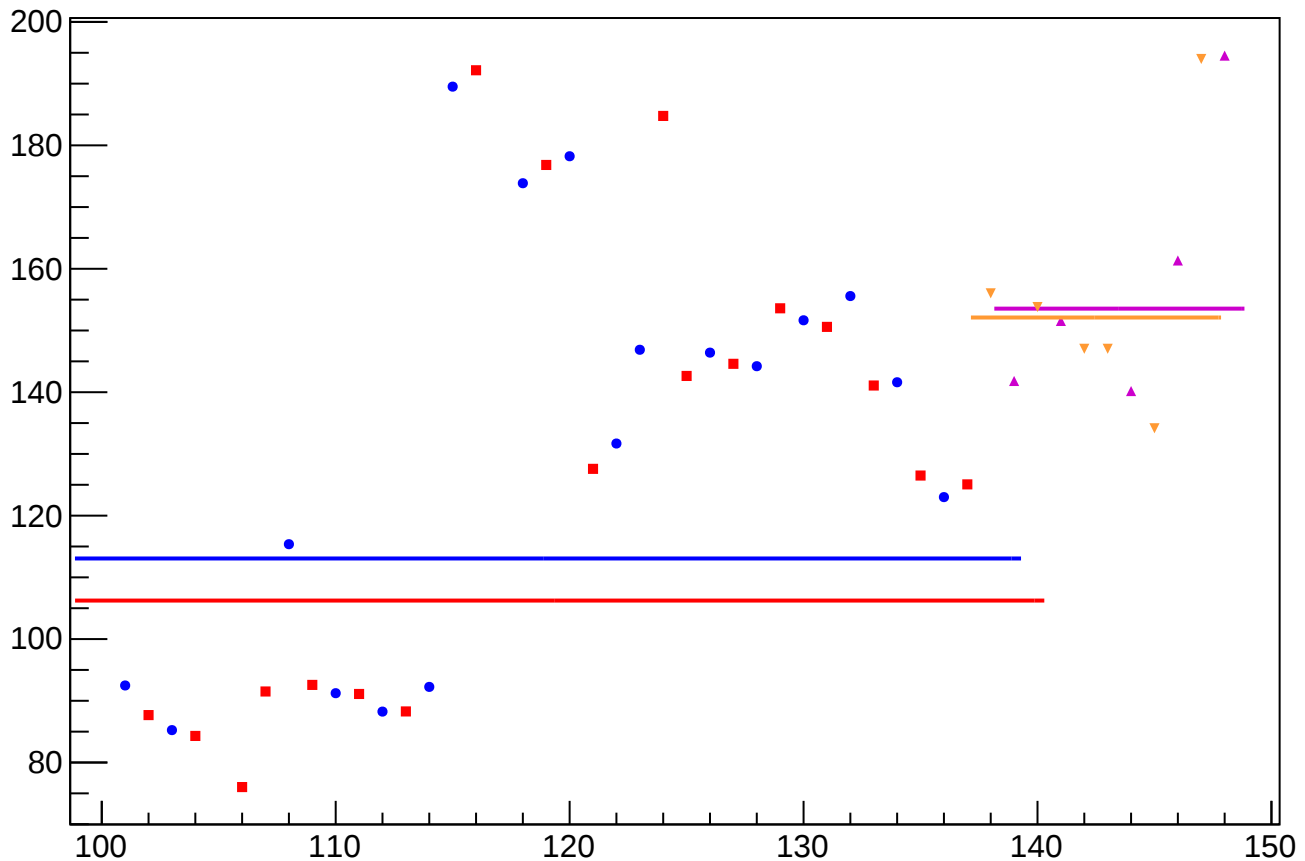
Left In: -145.156 $\pm$ 76.207  $\chi^2$ /NDF: 2.7/4

+ sign 47.141 $\pm$ 38.542  $\chi^2$ /NDF: 21.0/22

All: -30.516 $\pm$ 26.565  $\chi^2$ /NDF: 42.8/45

- sign -100.800 $\pm$ 36.667  $\chi^2$ /NDF: 14.1/22

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.059 $\pm$ 0.032  $\chi^2$ /NDF: 820795.9/16

Left Out: 152.105 $\pm$ 0.052  $\chi^2$ /NDF:104374.6/5

Right Out: 106.240 $\pm$ 0.030  $\chi^2$ /NDF: 951702.9/17

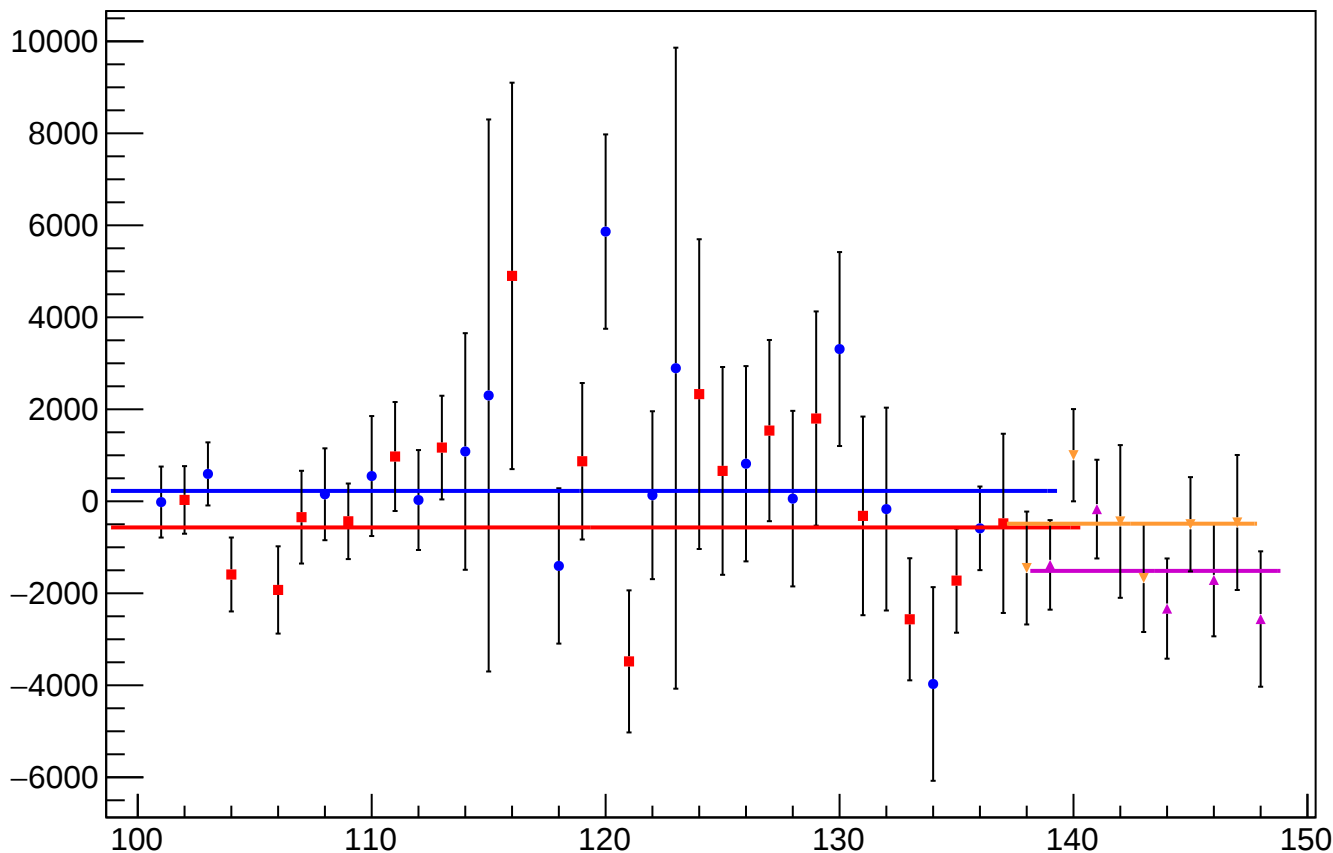
Left In: 153.543 $\pm$ 0.054  $\chi^2$ /NDF:102331.3/4

+ sign 123.660 $\pm$ 0.027  $\chi^2$ /NDF: 1331167.5/22

All: 120.264 $\pm$ 0.019  $\chi^2$ /NDF: 3006969.3/45

- sign 117.191 $\pm$ 0.026  $\chi^2$ /NDF: 1646224.0/22

# asym\_sam5\_correction\_mean vs Slug



Right In:  $225.635 \pm 321.412$   $\chi^2/\text{NDF}: 16.0/16$

Left Out:  $-486.725 \pm 489.974$   $\chi^2/\text{NDF}: 3.8/5$

Right Out:  $-568.109 \pm 290.500$   $\chi^2/\text{NDF}: 21.0/17$

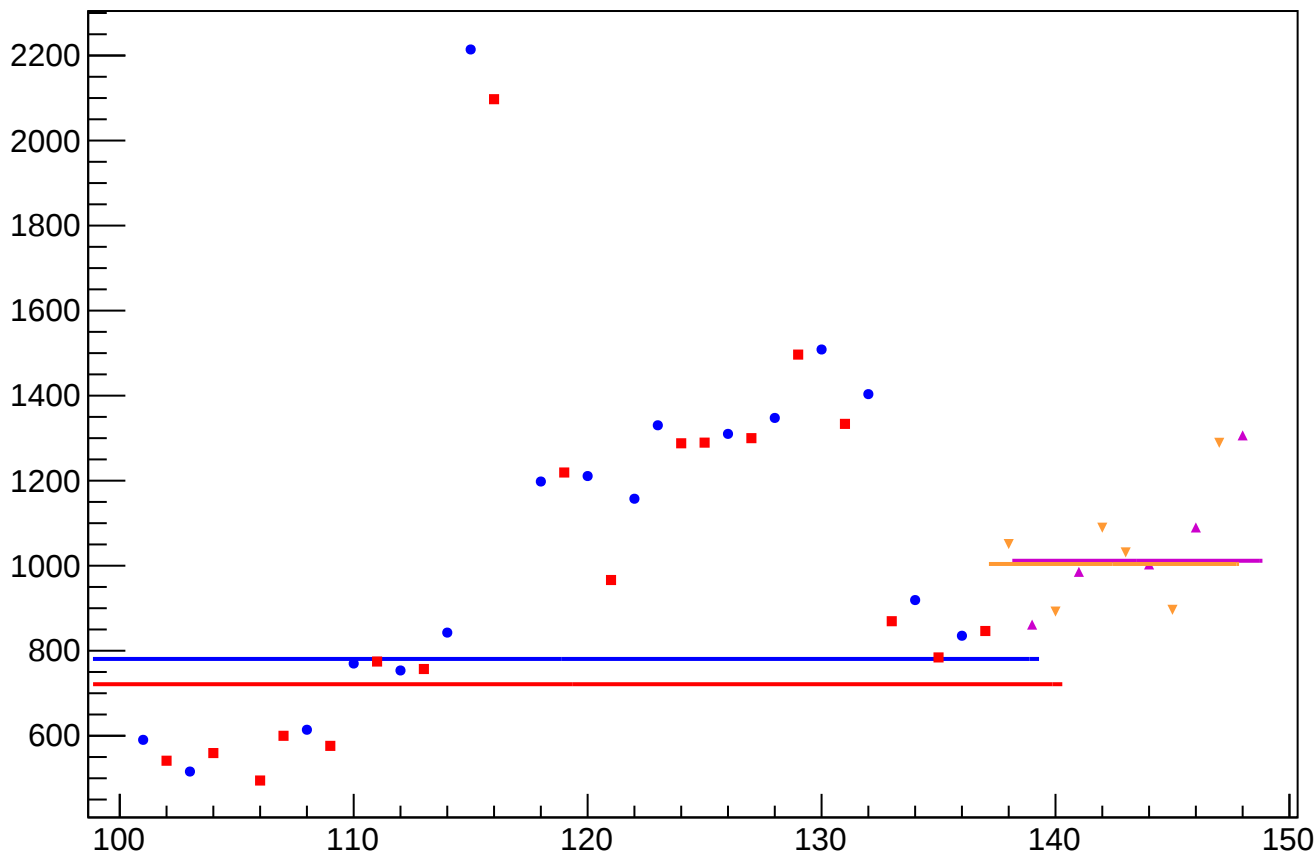
Left In:  $-1512.822 \pm 506.853$   $\chi^2/\text{NDF}: 2.7/4$

+ sign  $11.322 \pm 268.749$   $\chi^2/\text{NDF}: 21.3/22$

All:  $-421.254 \pm 183.842$   $\chi^2/\text{NDF}: 52.4/45$

- sign  $-801.707 \pm 252.038$   $\chi^2/\text{NDF}: 26.3/22$

# asym\_sam5\_correction\_rms vs Slug



Right In: 780.700 $\pm$ 0.227  $\chi^2$ /NDF: 1609510.2/16

Left Out: 1004.071 $\pm$ 0.346  $\chi^2$ /NDF:131797.6/5

Right Out: 721.264 $\pm$ 0.205  $\chi^2$ /NDF: 1626627.9/17

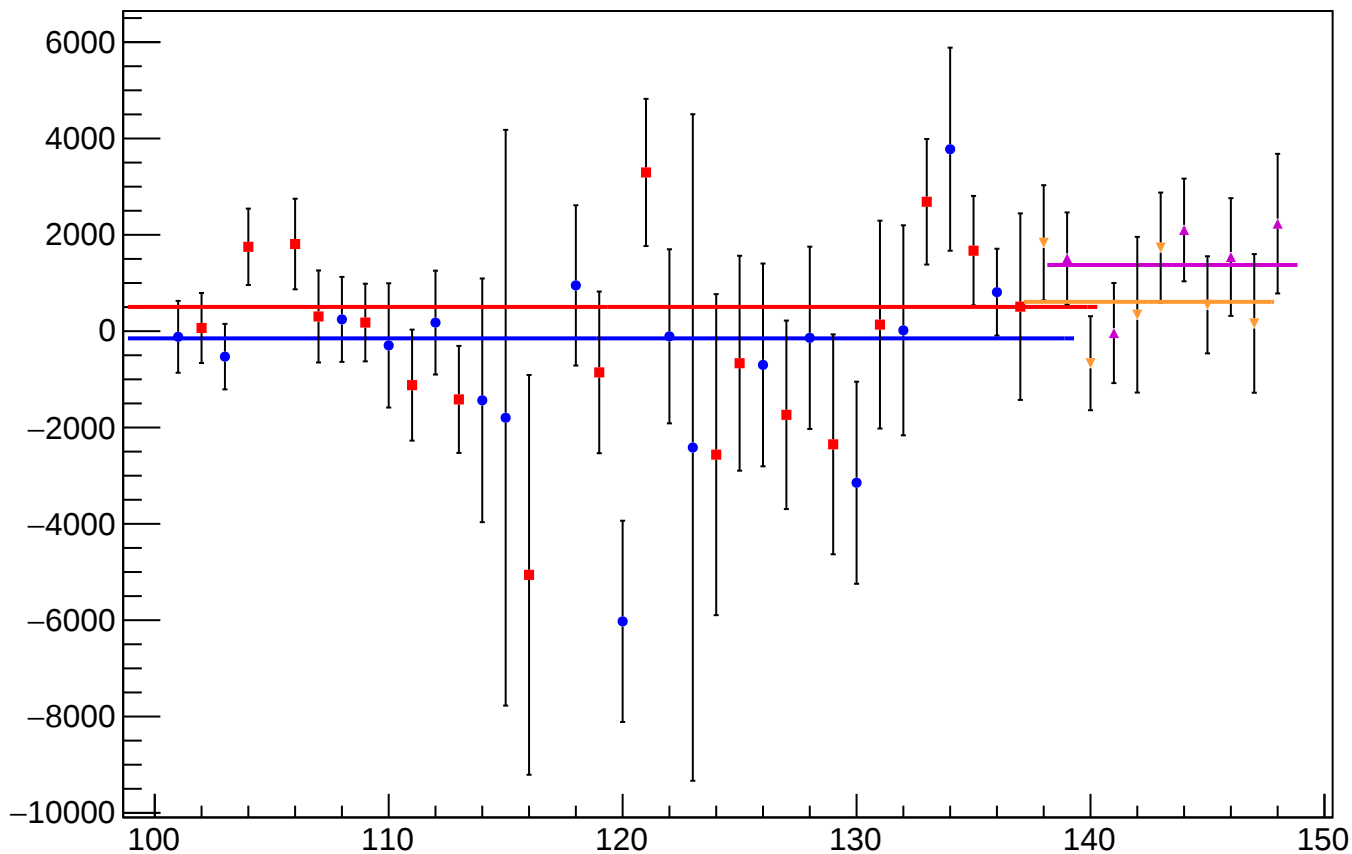
Left In: 1011.618 $\pm$ 0.358  $\chi^2$ /NDF:137350.4/4

+ sign 847.901 $\pm$ 0.190  $\chi^2$ /NDF: 2031915.6/22

All: 818.722 $\pm$ 0.130  $\chi^2$ /NDF: 4334244.5/45

- sign 793.059 $\pm$ 0.178  $\chi^2$ /NDF: 2258017.3/22

# asym\_sam5\_mean vs Slug



Right In: -149.163+/-312.963  $\chi^2/\text{NDF}$ : 16.1/16

Left Out: 608.866+/-478.670  $\chi^2/\text{NDF}$ : 3.9/5

Right Out: 503.162+/-285.781  $\chi^2/\text{NDF}$ : 23.6/17

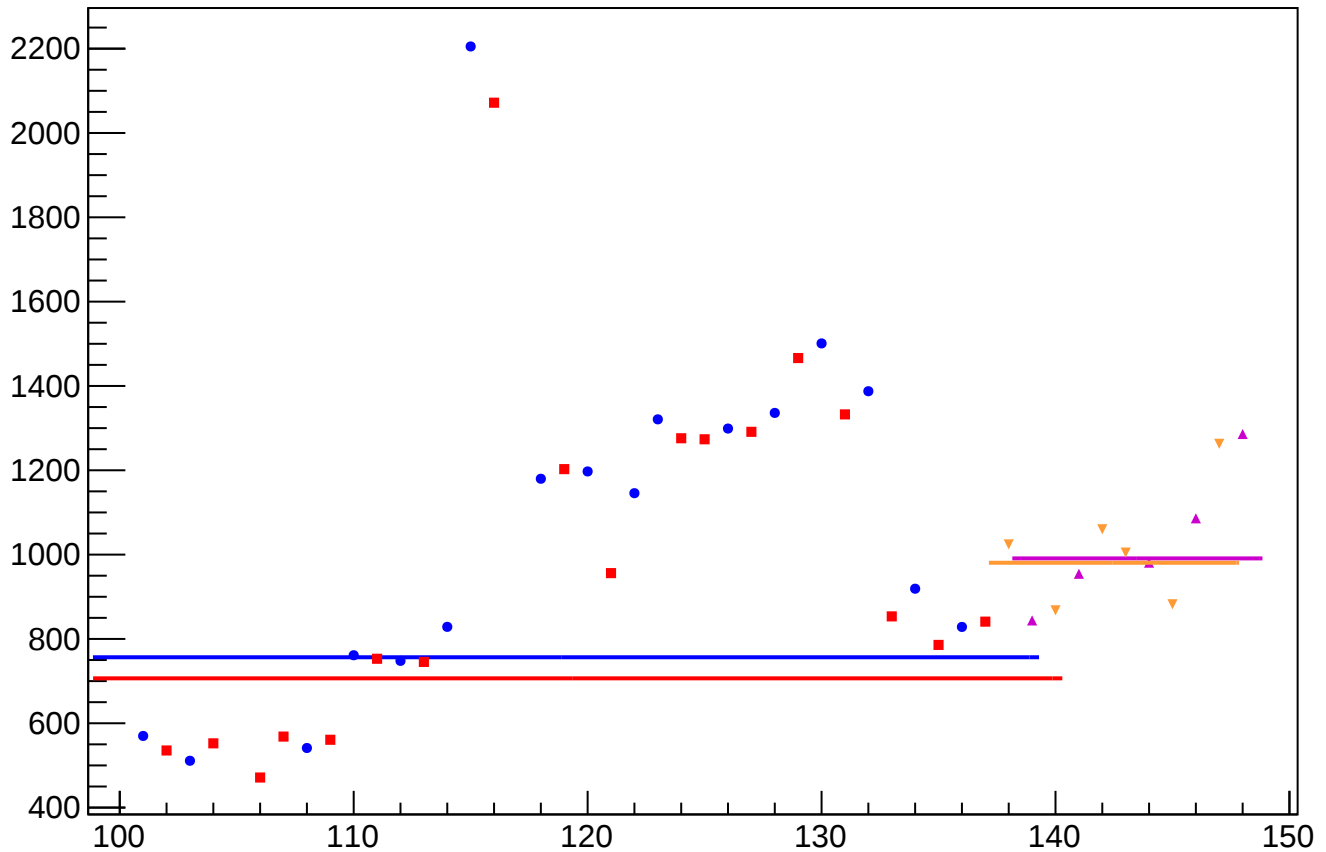
Left In: 1374.237+/-496.951  $\chi^2/\text{NDF}$ : 2.7/4

+ sign 77.839+/-261.944  $\chi^2/\text{NDF}$ : 21.7/22

All: 416.614+/-179.990  $\chi^2/\text{NDF}$ : 53.5/45

- sign 719.639+/-247.738  $\chi^2/\text{NDF}$ : 28.6/22

# asym\_sam5\_rms vs Slug



Right In: 756.539+/-0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 980.700+/-0.338  $\chi^2/\text{NDF}$ :131086.6/5

Right Out: 706.550+/-0.202  $\chi^2/\text{NDF}$ : 1670007.9/17

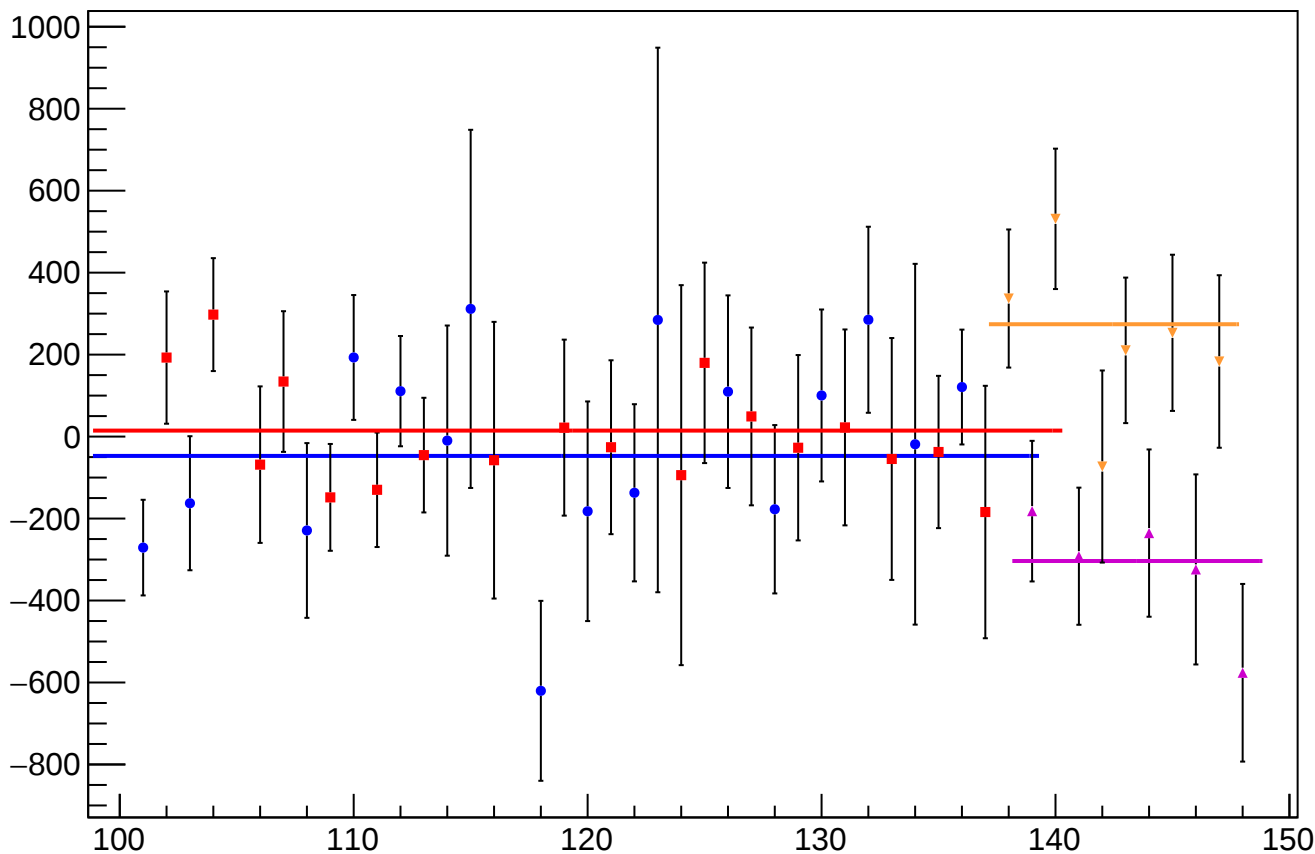
Left In: 991.017+/-0.351  $\chi^2/\text{NDF}$ :145202.6/4

+ sign 823.667+/-0.185  $\chi^2/\text{NDF}$ : 2151990.2/22

All: 799.163+/-0.127  $\chi^2/\text{NDF}$ : 4492831.4/45

- sign 777.245+/-0.175  $\chi^2/\text{NDF}$ : 2307684.7/22

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}$ : 21.9/16

Left Out:  $274.138 \pm 76.840$   $\chi^2/\text{NDF}$ : 4.9/5

Right Out:  $14.620 \pm 44.849$   $\chi^2/\text{NDF}$ : 10.1/17

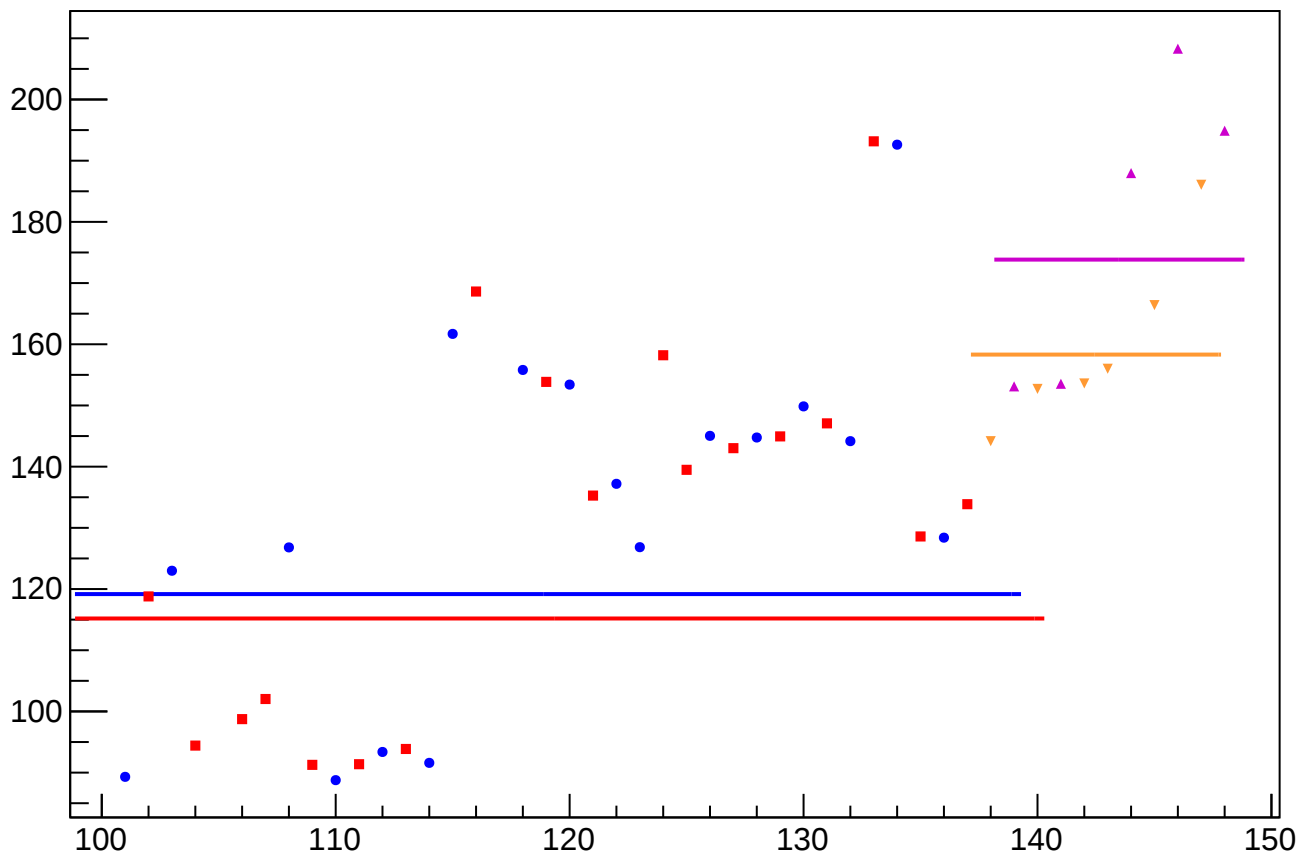
Left In:  $-303.565 \pm 86.513$   $\chi^2/\text{NDF}$ : 2.2/4

+ sign  $41.047 \pm 40.261$   $\chi^2/\text{NDF}$ : 39.5/22

All:  $-6.386 \pm 28.310$   $\chi^2/\text{NDF}$ : 65.2/45

- sign  $-52.779 \pm 39.817$   $\chi^2/\text{NDF}$ : 23.0/22

# dit\_asym\_sam6\_rms vs Slug



Right In: 119.175 $\pm$ 0.033  $\chi^2$ /NDF: 615304.2/16

Left Out: 158.315 $\pm$ 0.054  $\chi^2$ /NDF:55772.4/5

Right Out: 115.188 $\pm$ 0.032  $\chi^2$ /NDF: 675564.7/17

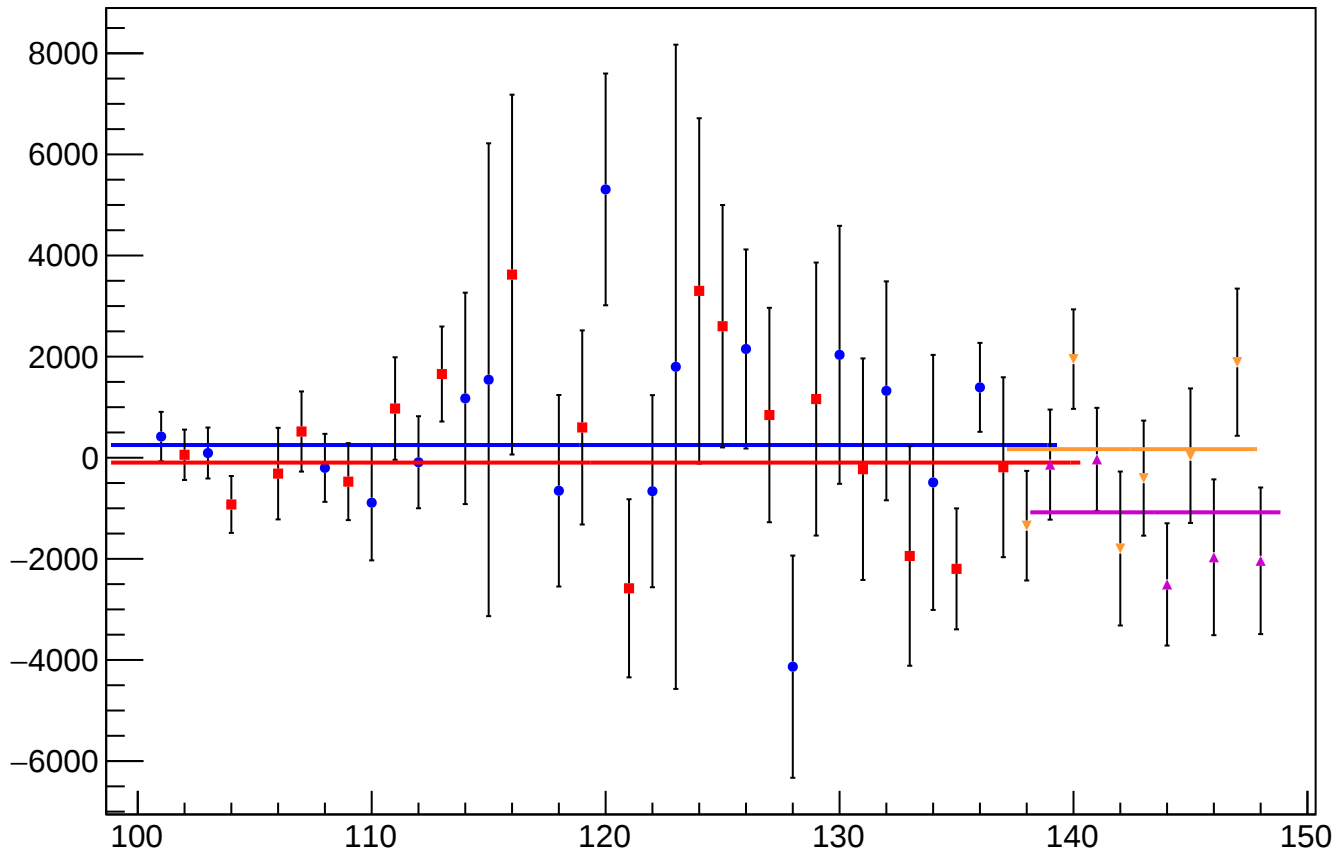
Left In: 173.835 $\pm$ 0.061  $\chi^2$ /NDF:131265.5/4

+ sign 129.920 $\pm$ 0.028  $\chi^2$ /NDF: 1047527.6/22

All: 128.753 $\pm$ 0.020  $\chi^2$ /NDF: 2582108.4/45

- sign 127.610 $\pm$ 0.028  $\chi^2$ /NDF: 1531253.3/22

# asym\_sam6\_correction\_mean vs Slug



Right In: 251.733 $\pm$ 252.819  $\chi^2$ /NDF: 14.9/16

Left Out: 169.804 $\pm$ 492.407  $\chi^2$ /NDF: 8.6/5

Right Out: -95.805 $\pm$ 245.748  $\chi^2$ /NDF: 17.5/17

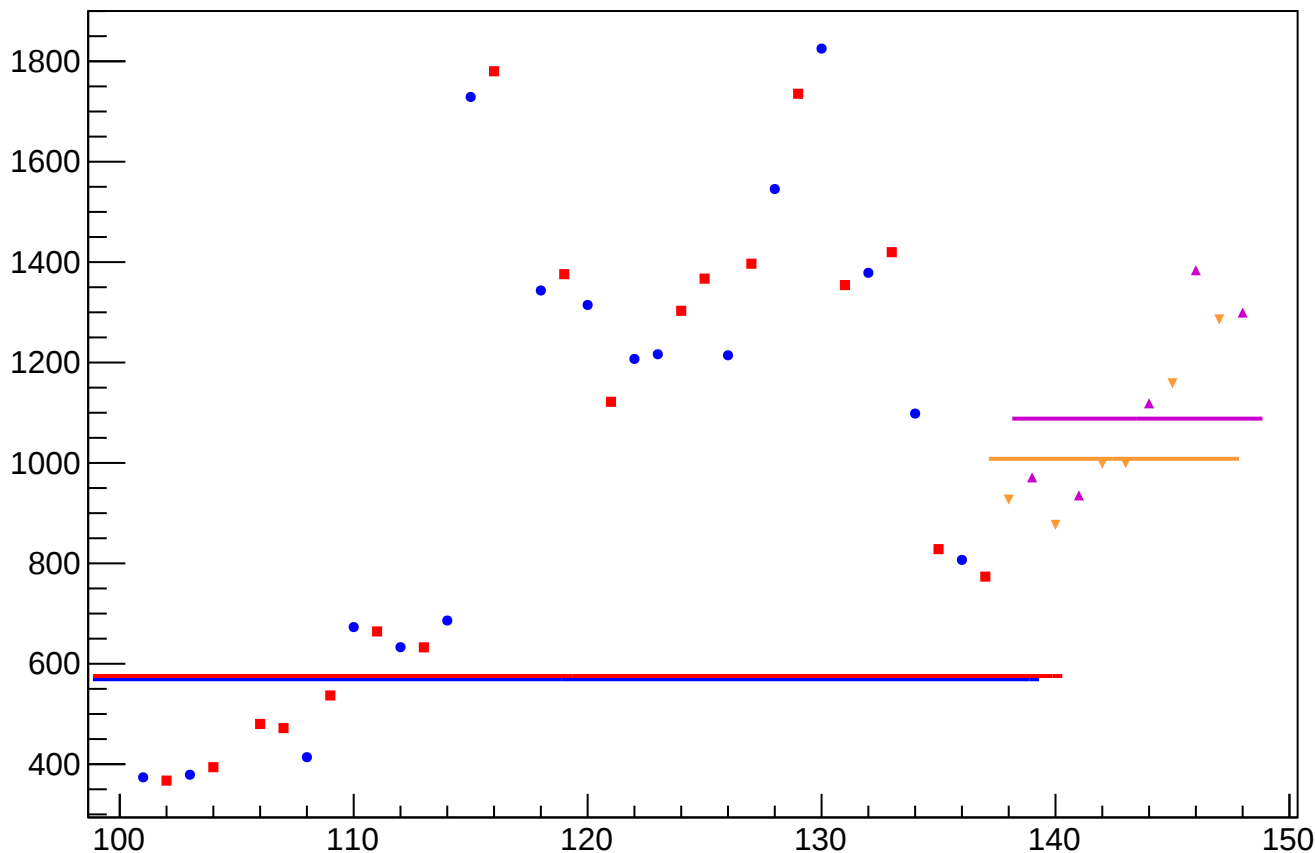
Left In: -1079.798 $\pm$ 543.371  $\chi^2$ /NDF: 4.0/4

+ sign 234.641 $\pm$ 224.907  $\chi^2$ /NDF: 23.5/22

All: -15.231 $\pm$ 158.680  $\chi^2$ /NDF: 50.1/45

- sign -262.897 $\pm$ 223.912  $\chi^2$ /NDF: 24.1/22

# asym\_sam6\_correction\_rms vs Slug



Right In: 569.200+/-0.179  $\chi^2/\text{NDF}$ : 3267047.1/16

Left Out: 1008.229+/-0.348  $\chi^2/\text{NDF}$ : 145459.2/5

Right Out: 575.584+/-0.174  $\chi^2/\text{NDF}$ : 3058273.5/17

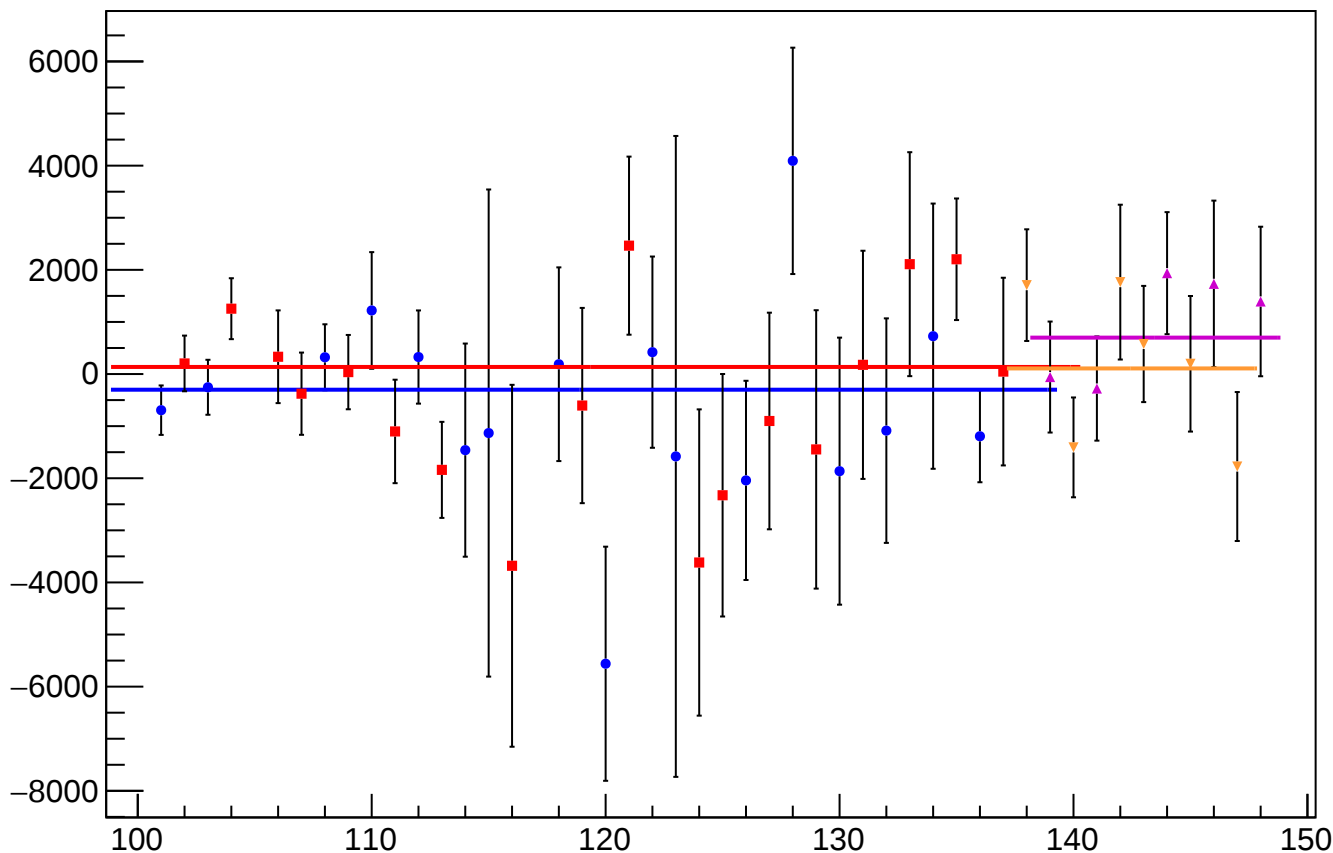
Left In: 1088.254+/-0.384  $\chi^2/\text{NDF}$ : 185382.8/4

+ sign 660.790+/-0.159  $\chi^2/\text{NDF}$ : 4670718.5/22

All: 661.719+/-0.112  $\chi^2/\text{NDF}$ : 9392501.8/45

- sign 662.640+/-0.158  $\chi^2/\text{NDF}$ : 4721715.4/22

# asym\_sam6\_mean vs Slug



Right In: -300.652+/-250.302  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: 107.703+/-482.439  $\chi^2/\text{NDF}$ : 7.9/5

Right Out: 136.107+/-247.692  $\chi^2/\text{NDF}$ : 20.9/17

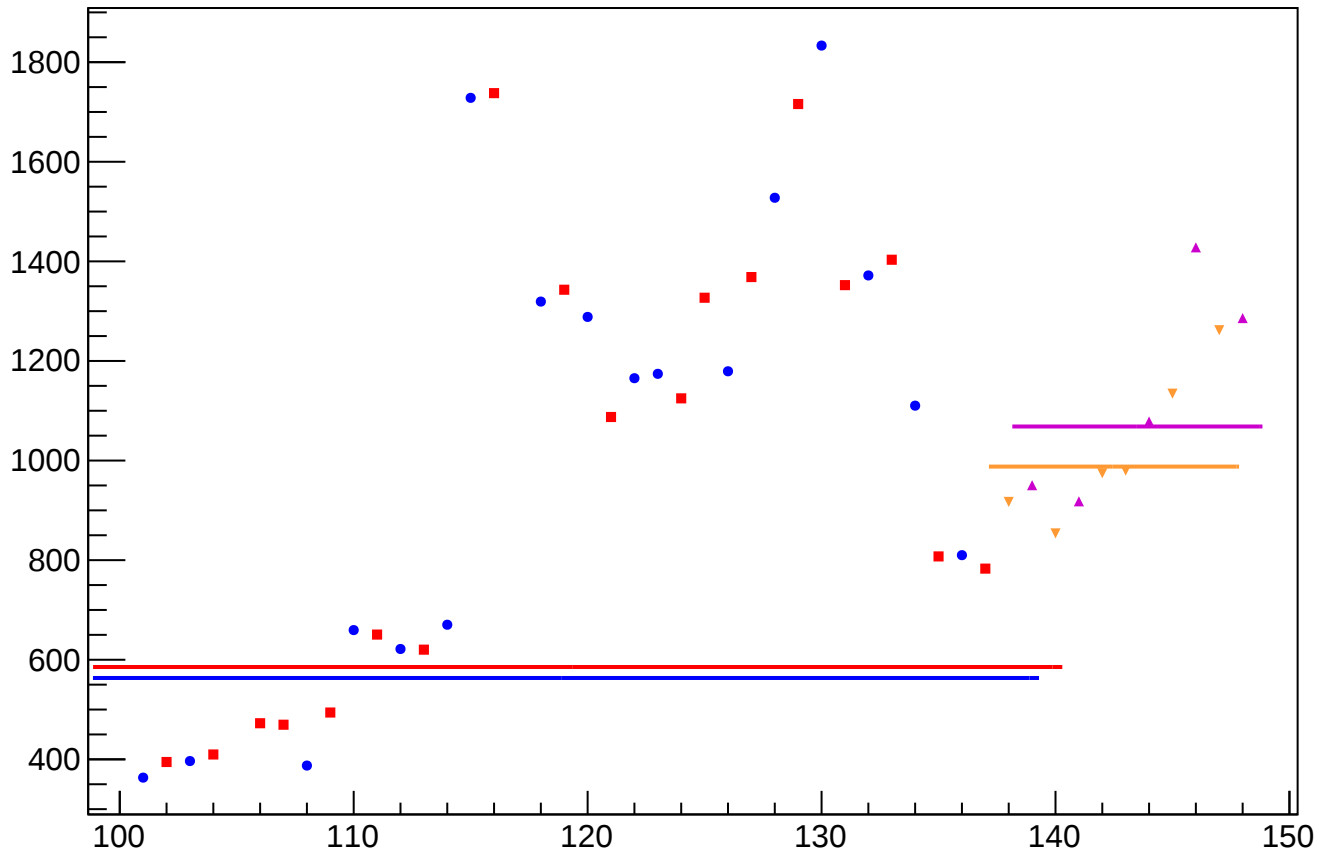
Left In: 698.932+/-535.486  $\chi^2/\text{NDF}$ : 3.2/4

+ sign -214.044+/-222.179  $\chi^2/\text{NDF}$ : 25.2/22

All: 7.988+/-158.025  $\chi^2/\text{NDF}$ : 52.2/45

- sign 235.304+/-224.807  $\chi^2/\text{NDF}$ : 25.0/22

# asym\_sam6\_rms vs Slug



Right In: 563.393+/-0.177  $\chi^2/\text{NDF}$ : 3259045.7/16

Left Out: 987.884+/-0.341  $\chi^2/\text{NDF}$ : 146952.7/5

Right Out: 585.438+/-0.175  $\chi^2/\text{NDF}$ : 2818143.7/17

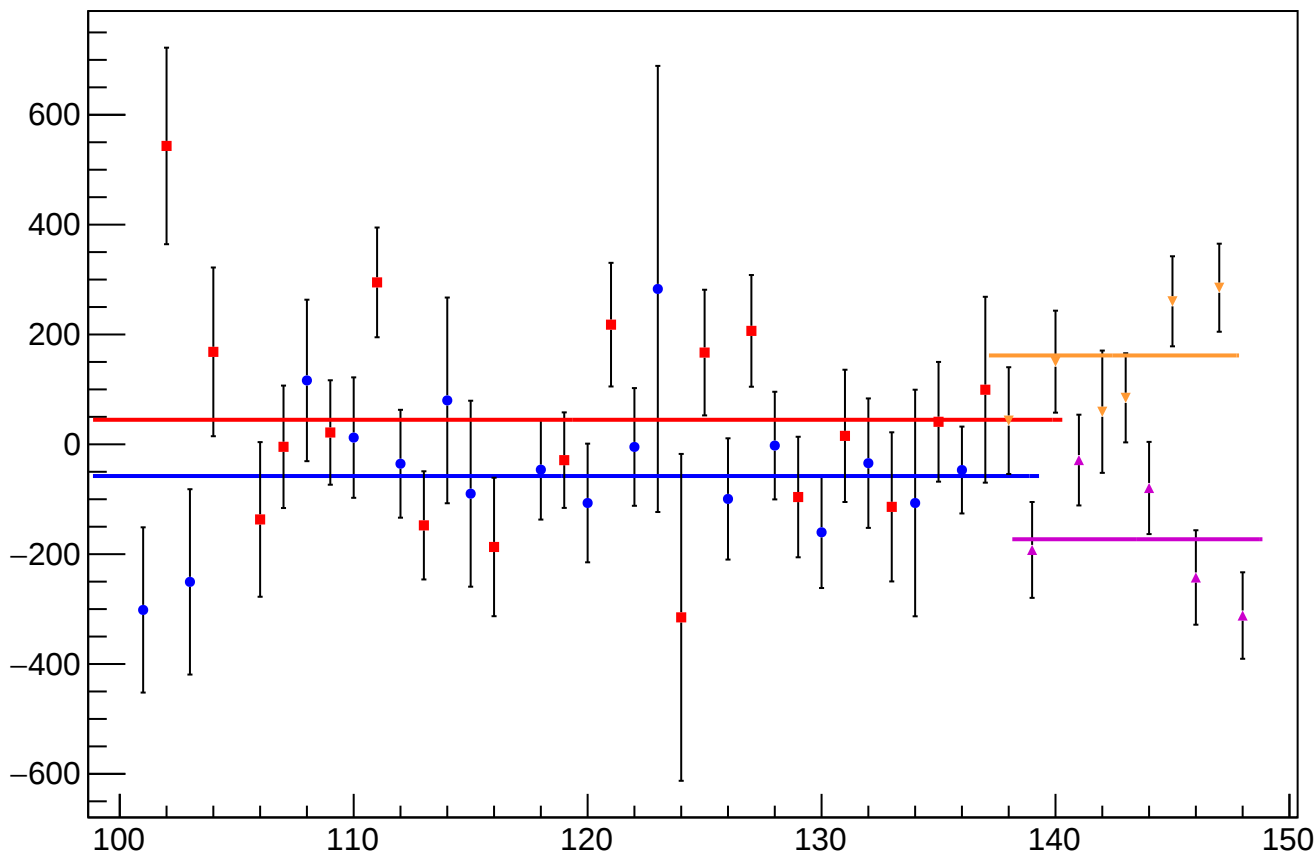
Left In: 1068.395+/-0.379  $\chi^2/\text{NDF}$ : 217294.2/4

+ sign 653.424+/-0.157  $\chi^2/\text{NDF}$ : 4625992.9/22

All: 661.890+/-0.112  $\chi^2/\text{NDF}$ : 9007438.4/45

- sign 670.559+/-0.159  $\chi^2/\text{NDF}$ : 4375567.7/22

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}: 9.1/16$

Left Out:  $161.826 \pm 36.302$   $\chi^2/\text{NDF}: 7.1/5$

Right Out:  $44.693 \pm 27.711$   $\chi^2/\text{NDF}: 35.2/17$

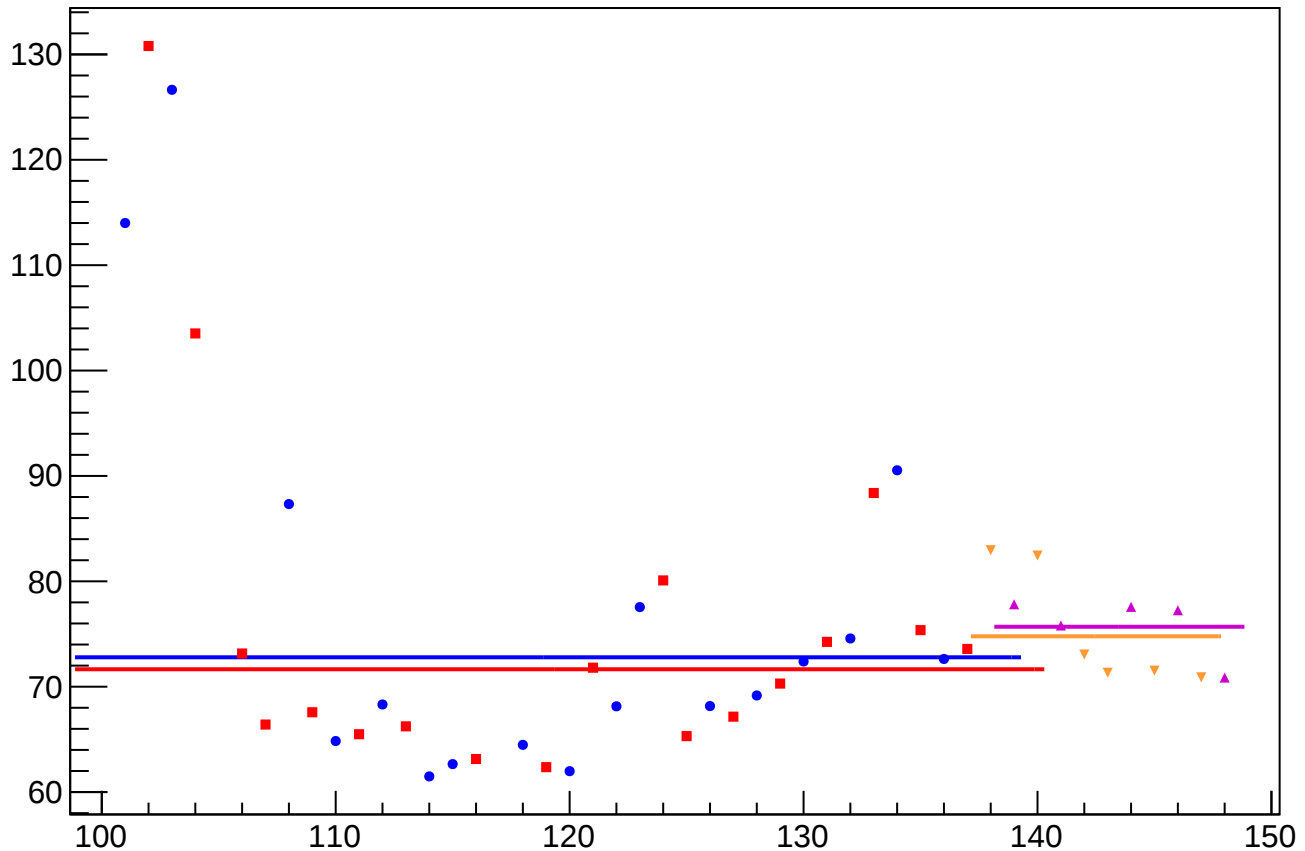
Left In:  $-172.835 \pm 37.369$   $\chi^2/\text{NDF}: 8.1/4$

+ sign  $26.707 \pm 22.511$   $\chi^2/\text{NDF}: 38.7/22$

All:  $-3.223 \pm 15.828$   $\chi^2/\text{NDF}: 107.3/45$

- sign  $-32.487 \pm 22.259$   $\chi^2/\text{NDF}: 65.1/22$

# dit\_asym\_sam7\_rms vs Slug



Right In:  $72.790 \pm 0.020$   $\chi^2/\text{NDF}$ : 464772.9/16

Left Out:  $74.781 \pm 0.026$   $\chi^2/\text{NDF}$ : 39735.5/5

Right Out:  $71.655 \pm 0.020$   $\chi^2/\text{NDF}$ : 404376.9/17

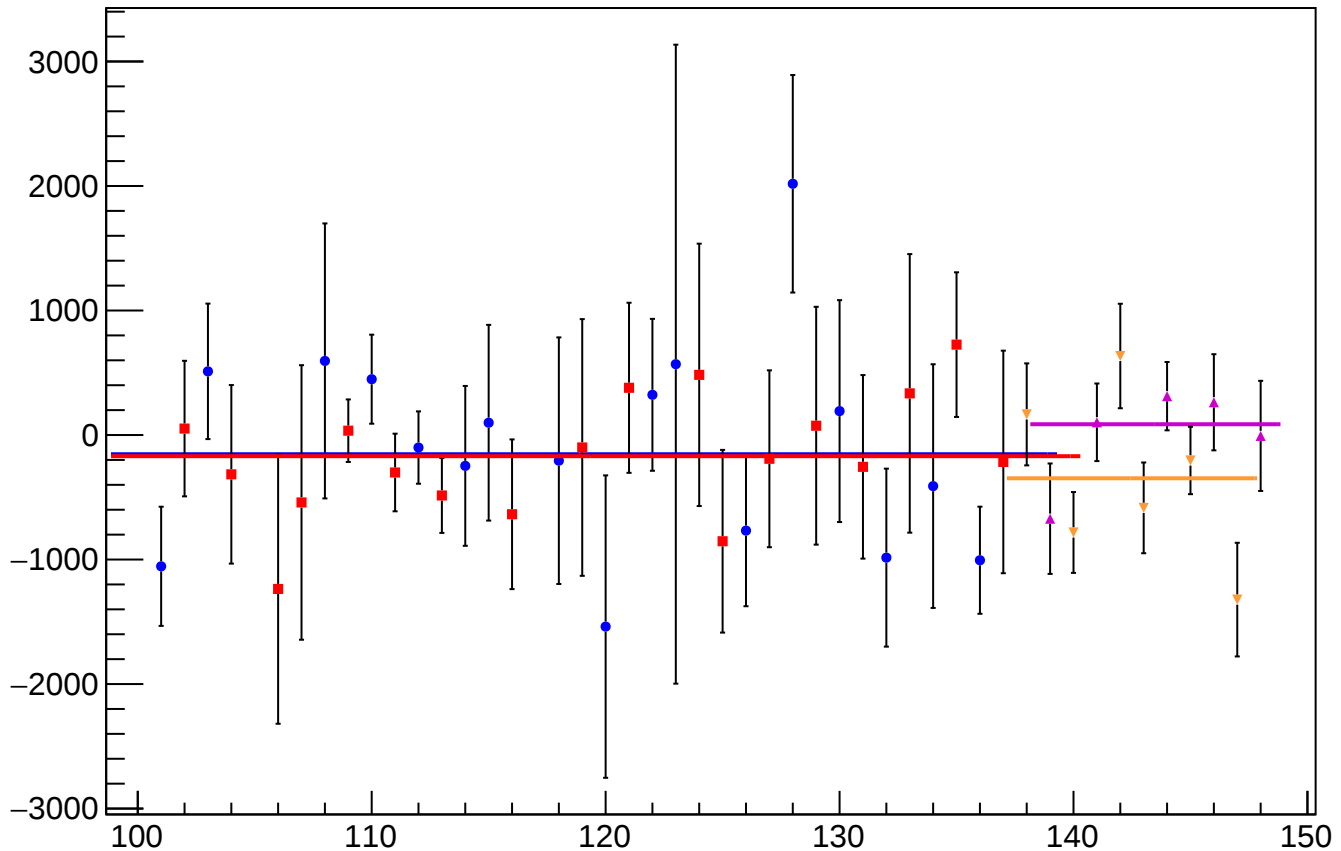
Left In:  $75.689 \pm 0.026$   $\chi^2/\text{NDF}$ : 10371.7/4

+ sign  $73.555 \pm 0.016$   $\chi^2/\text{NDF}$ : 508211.0/22

All:  $73.318 \pm 0.011$   $\chi^2/\text{NDF}$ : 938433.2/45

- sign  $73.086 \pm 0.016$   $\chi^2/\text{NDF}$ : 429783.2/22

# asym\_sam7\_correction\_mean vs Slug



Right In: -154.404 $\pm$ 140.700  $\chi^2$ /NDF: 23.2/16

Left Out: -347.471 $\pm$ 145.674  $\chi^2$ /NDF:14.1/5

Right Out: -170.028 $\pm$ 126.220  $\chi^2$ /NDF: 8.4/17

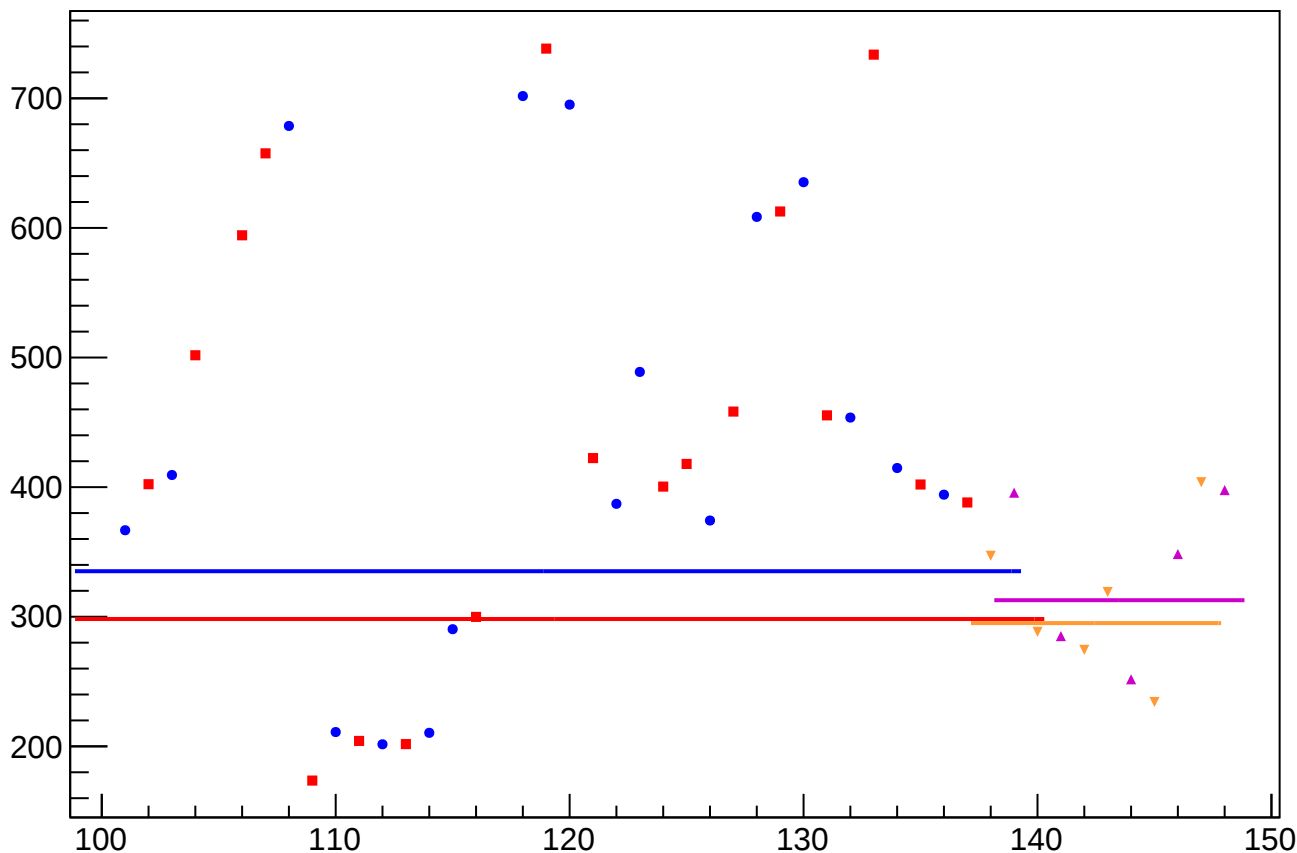
Left In: 86.686 $\pm$ 157.148  $\chi^2$ /NDF:3.9/4

+ sign -247.585 $\pm$ 101.203  $\chi^2$ /NDF: 38.2/22

All: -155.978 $\pm$ 70.552  $\chi^2$ /NDF: 53.7/45

- sign -69.360 $\pm$ 98.408  $\chi^2$ /NDF: 13.9/22

# asym\_sam7\_correction\_rms vs Slug



Right In: 335.134+/-0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 295.085+/-0.103  $\chi^2/\text{NDF}$ : 261243.2/5

Right Out: 298.253+/-0.089  $\chi^2/\text{NDF}$ : 2776555.9/17

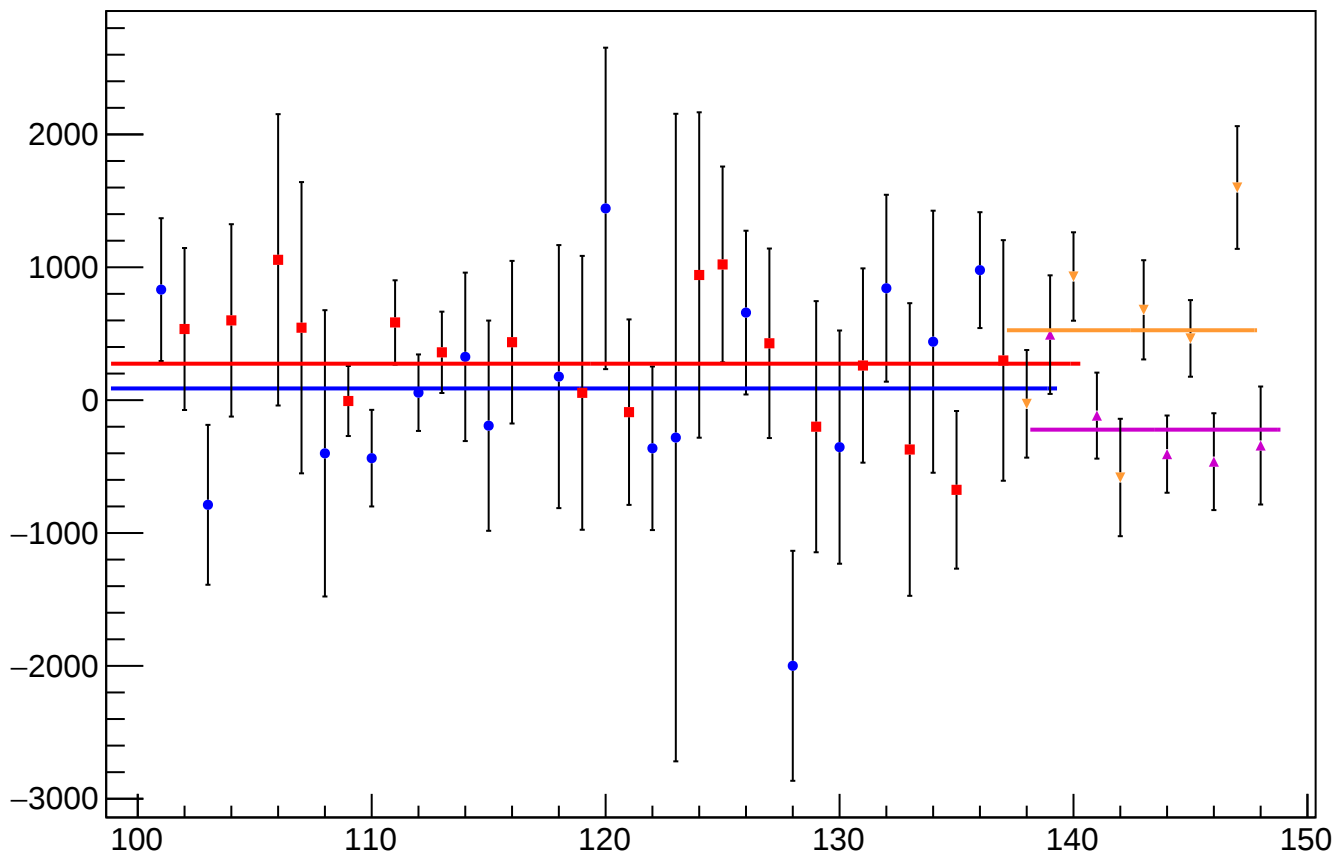
Left In: 312.759+/-0.111  $\chi^2/\text{NDF}$ : 275596.3/4

+ sign 315.805+/-0.072  $\chi^2/\text{NDF}$ : 2333495.9/22

All: 309.707+/-0.050  $\chi^2/\text{NDF}$ : 5410132.4/45

- sign 303.942+/-0.070  $\chi^2/\text{NDF}$ : 3062510.6/22

# asym\_sam7\_mean vs Slug



Right In: 88.115 $\pm$ 143.018  $\chi^2$ /NDF: 20.8/16

Left Out: 526.047 $\pm$ 150.519  $\chi^2$ /NDF:15.3/5

Right Out: 274.340 $\pm$ 129.866  $\chi^2$ /NDF: 8.0/17

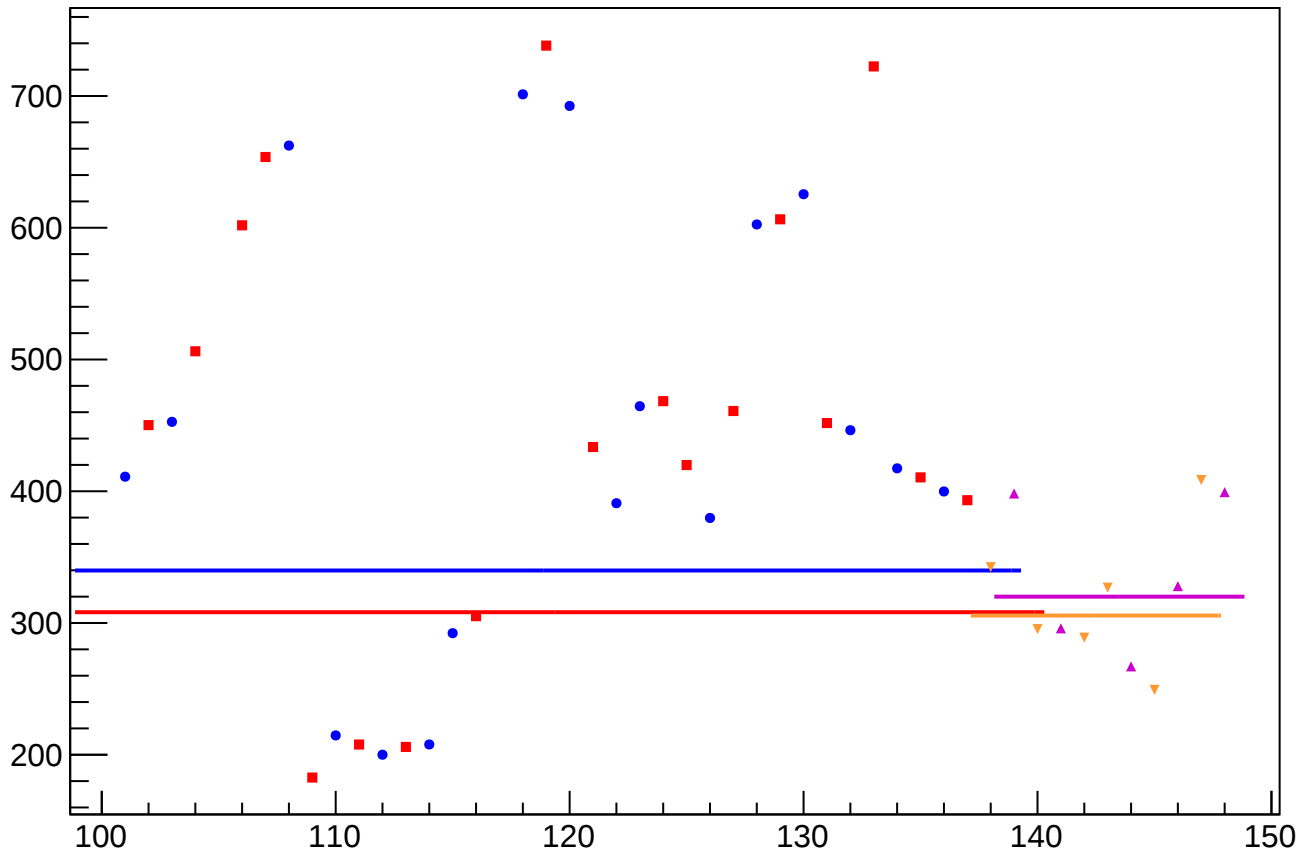
Left In: -222.128 $\pm$ 160.122  $\chi^2$ /NDF:3.6/4

+ sign 295.898 $\pm$ 103.679  $\chi^2$ /NDF: 40.5/22

All: 183.613 $\pm$ 72.296  $\chi^2$ /NDF: 60.2/45

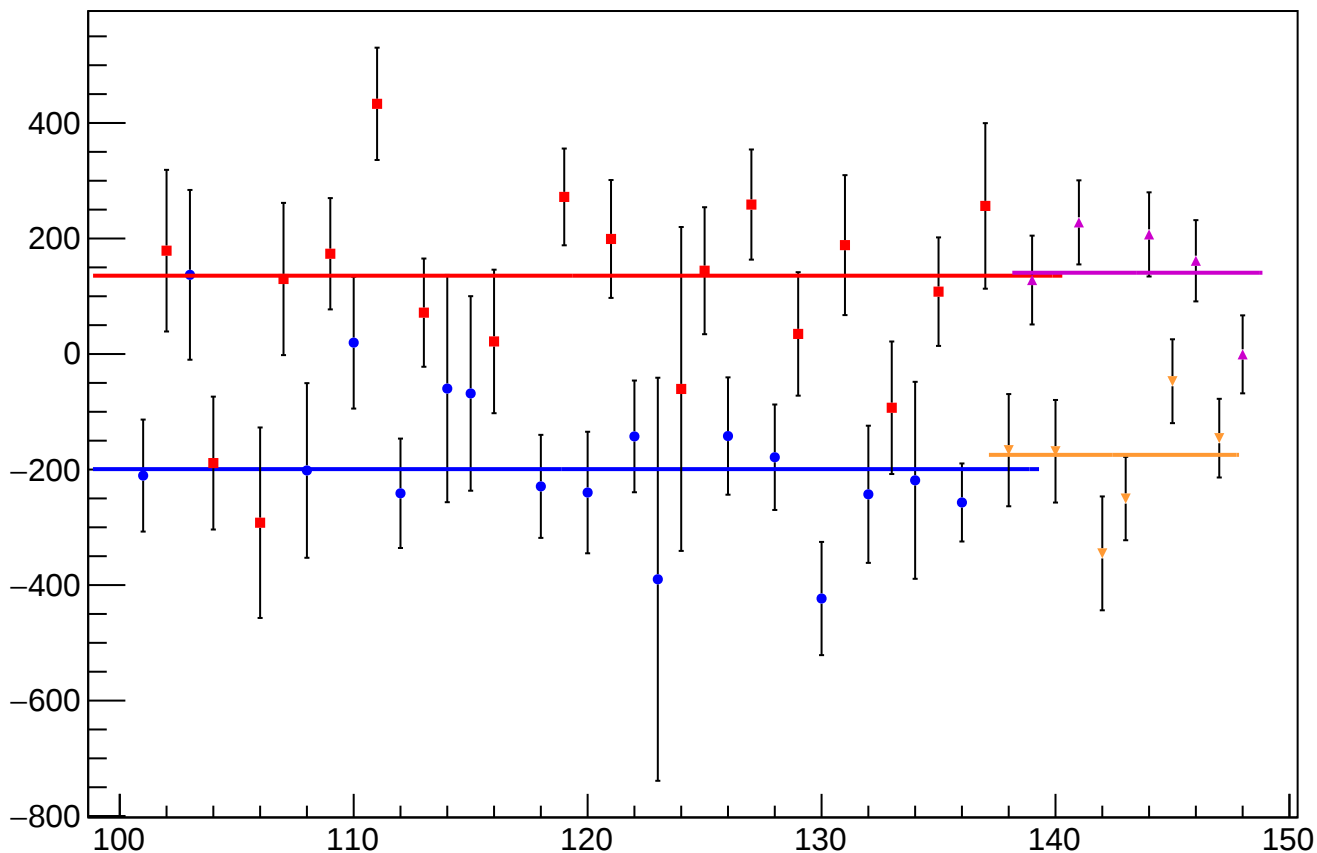
- sign 77.347 $\pm$ 100.863  $\chi^2$ /NDF: 17.4/22

# asym\_sam7\_rms vs Slug



Right In:  $339.850 \pm 0.101$   $\chi^2/\text{NDF}$ : 2043522.4/16  
 Left Out:  $305.667 \pm 0.106$   $\chi^2/\text{NDF}$ : 203459.5/5  
 Right Out:  $308.199 \pm 0.092$   $\chi^2/\text{NDF}$ : 2698828.8/17  
 Left In:  $319.999 \pm 0.113$   $\chi^2/\text{NDF}$ : 203710.1/4  
 + sign  $323.631 \pm 0.073$   $\chi^2/\text{NDF}$ : 2301190.9/22  
 All:  $318.108 \pm 0.051$   $\chi^2/\text{NDF}$ : 5221328.4/45  
 - sign  $312.881 \pm 0.071$   $\chi^2/\text{NDF}$ : 2909090.5/22

# dit\_asym\_sam8\_mean vs Slug



Right In: -199.252+/-26.515  $\chi^2/\text{NDF}$ : 17.6/16

Left Out: -174.561+/-32.738  $\chi^2/\text{NDF}$ : 7.4/5

Right Out: 135.623+/-26.252  $\chi^2/\text{NDF}$ : 36.7/17

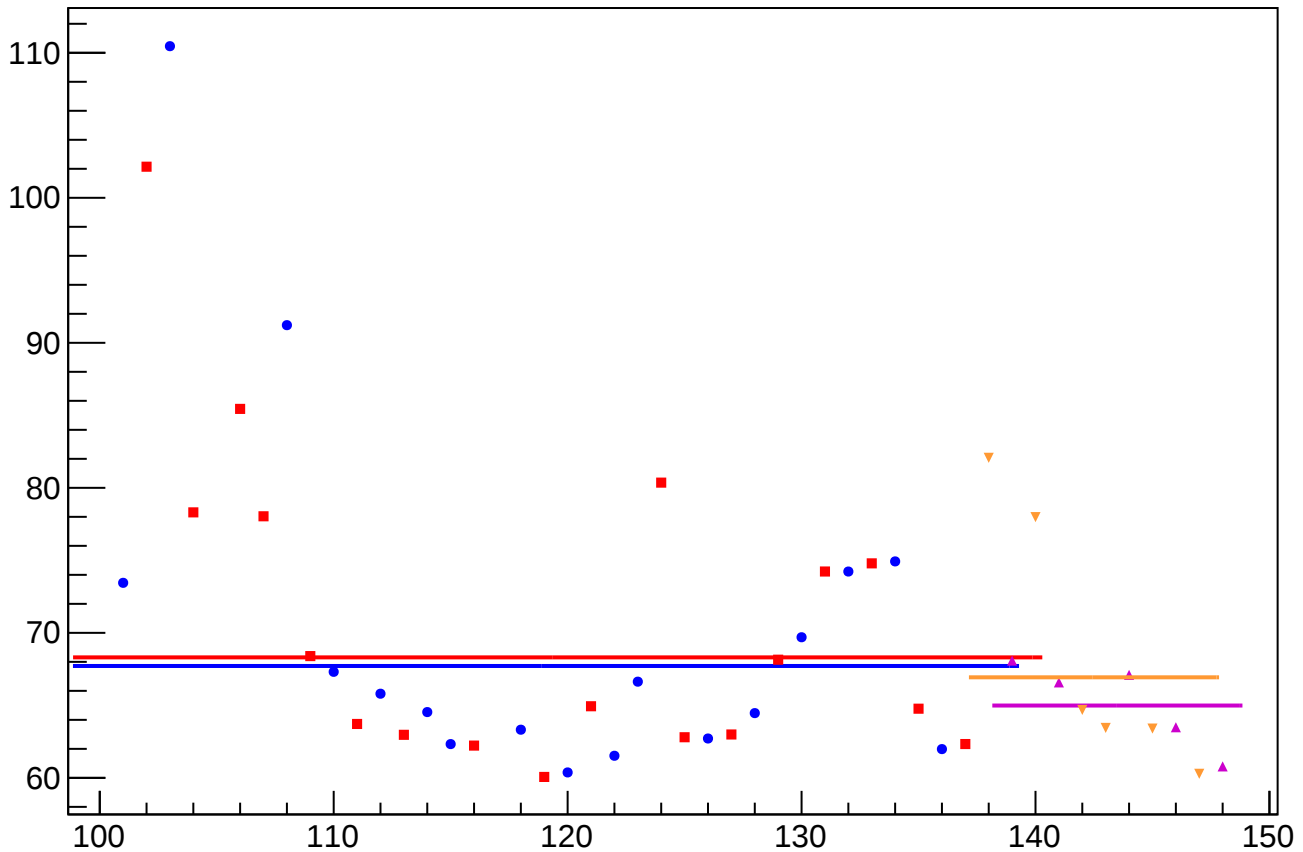
Left In: 140.729+/-32.145  $\chi^2/\text{NDF}$ : 6.8/4

+ sign -189.471+/-20.605  $\chi^2/\text{NDF}$ : 25.3/22

All: -23.731+/-14.473  $\chi^2/\text{NDF}$ : 196.5/45

- sign 137.666+/-20.333  $\chi^2/\text{NDF}$ : 43.4/22

# dit\_asym\_sam8\_rms vs Slug



Right In: 67.715 $\pm$ 0.019  $\chi^2$ /NDF: 282892.5/16

Left Out: 66.933 $\pm$ 0.023  $\chi^2$ /NDF: 109083.6/5

Right Out: 68.308 $\pm$ 0.019  $\chi^2$ /NDF: 234314.0/17

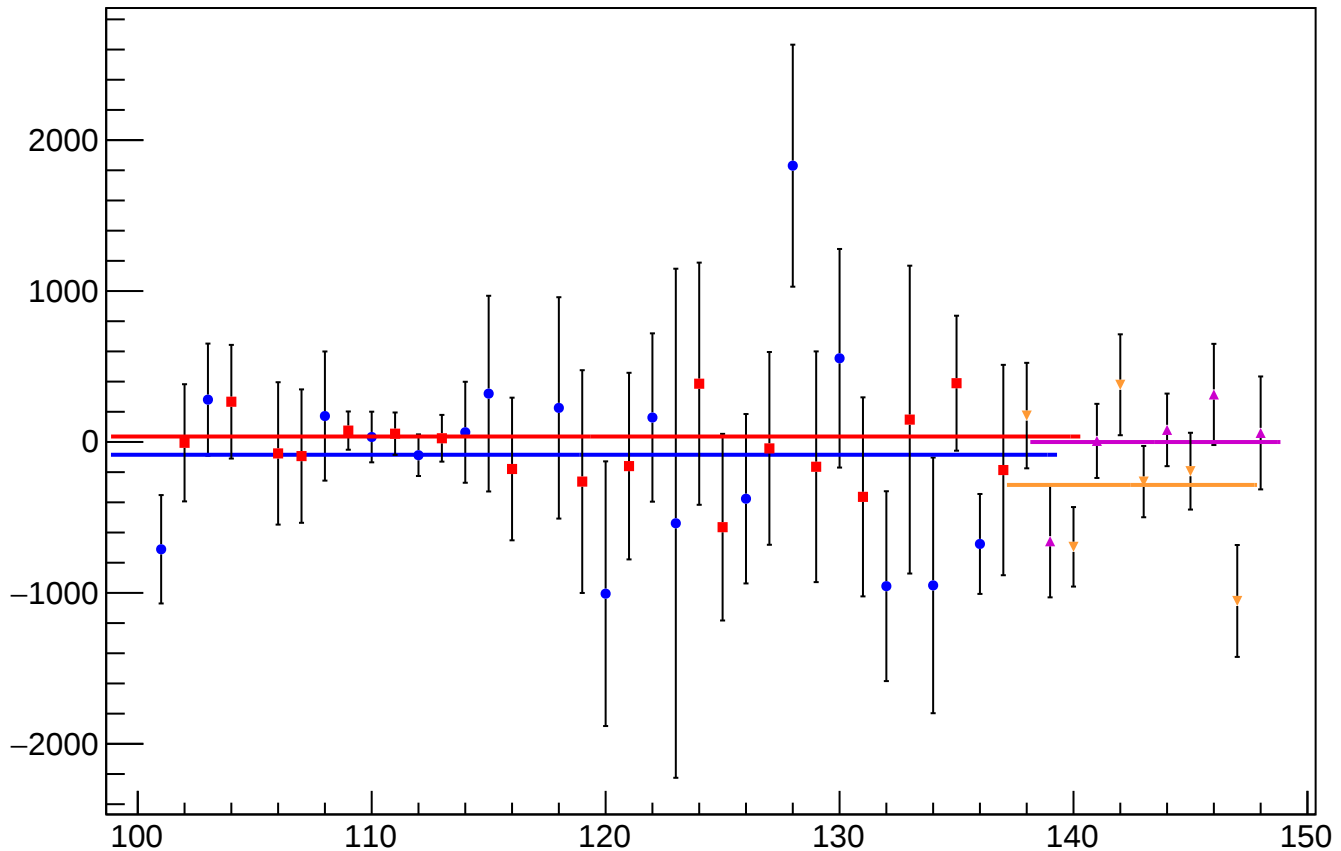
Left In: 64.988 $\pm$ 0.023  $\chi^2$ /NDF: 14532.5/4

+ sign 67.406 $\pm$ 0.015  $\chi^2$ /NDF: 392665.0/22

All: 67.190 $\pm$ 0.010  $\chi^2$ /NDF: 654748.8/45

- sign 66.980 $\pm$ 0.014  $\chi^2$ /NDF: 261650.9/22

# asym\_sam8\_correction\_mean vs Slug



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}$ : 19.9/16

Left Out:  $-284.614 \pm 117.696$   $\chi^2/\text{NDF}$ : 12.5/5

Right Out:  $36.132 \pm 69.750$   $\chi^2/\text{NDF}$ : 3.4/17

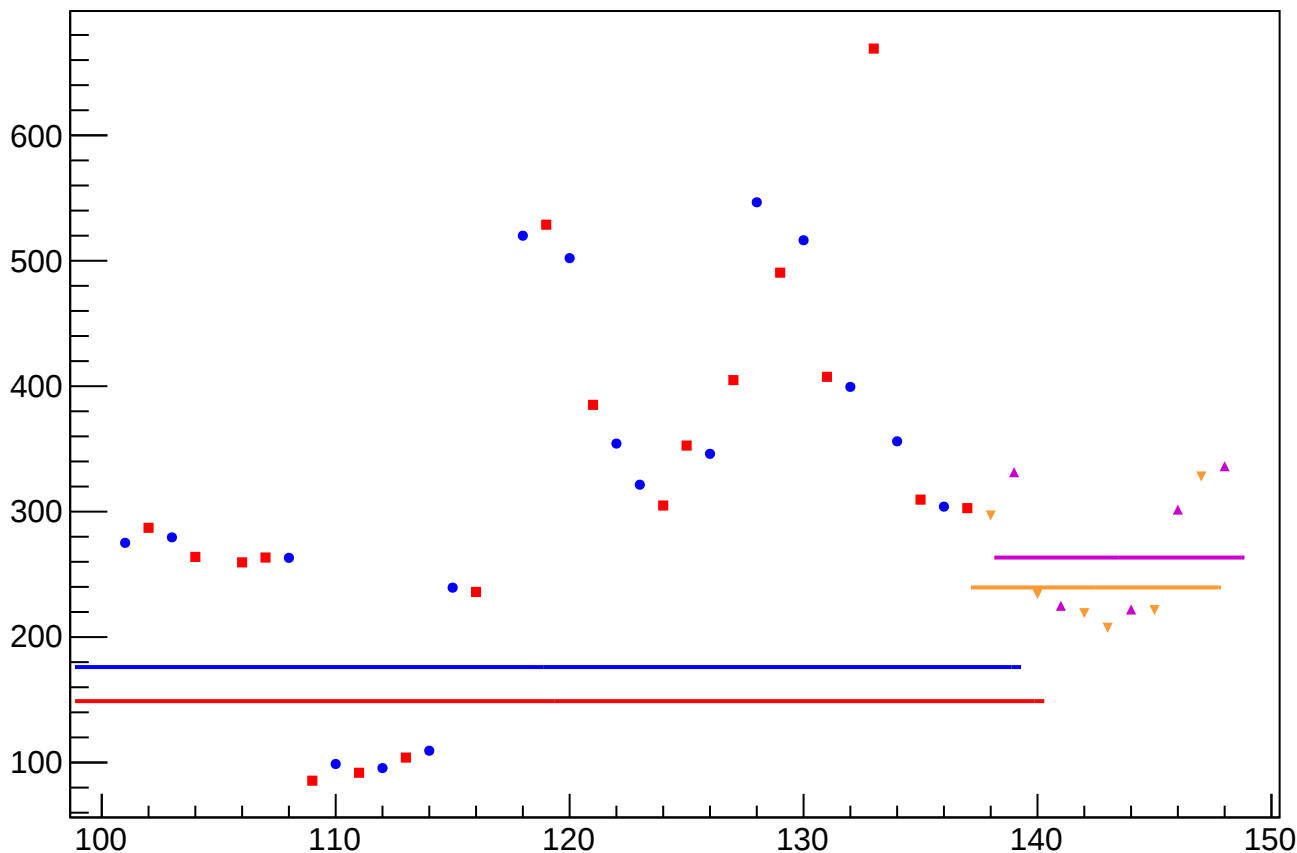
Left In:  $-0.407 \pm 132.264$   $\chi^2/\text{NDF}$ : 4.1/4

+ sign  $-150.783 \pm 67.648$   $\chi^2/\text{NDF}$ : 34.4/22

All:  $-53.083 \pm 45.585$   $\chi^2/\text{NDF}$ : 45.8/45

- sign  $28.182 \pm 61.697$   $\chi^2/\text{NDF}$ : 7.7/22

# asym\_sam8\_correction\_rms vs Slug



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 239.566+/-0.083  $\chi^2/\text{NDF}$ : 223098.7/5

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

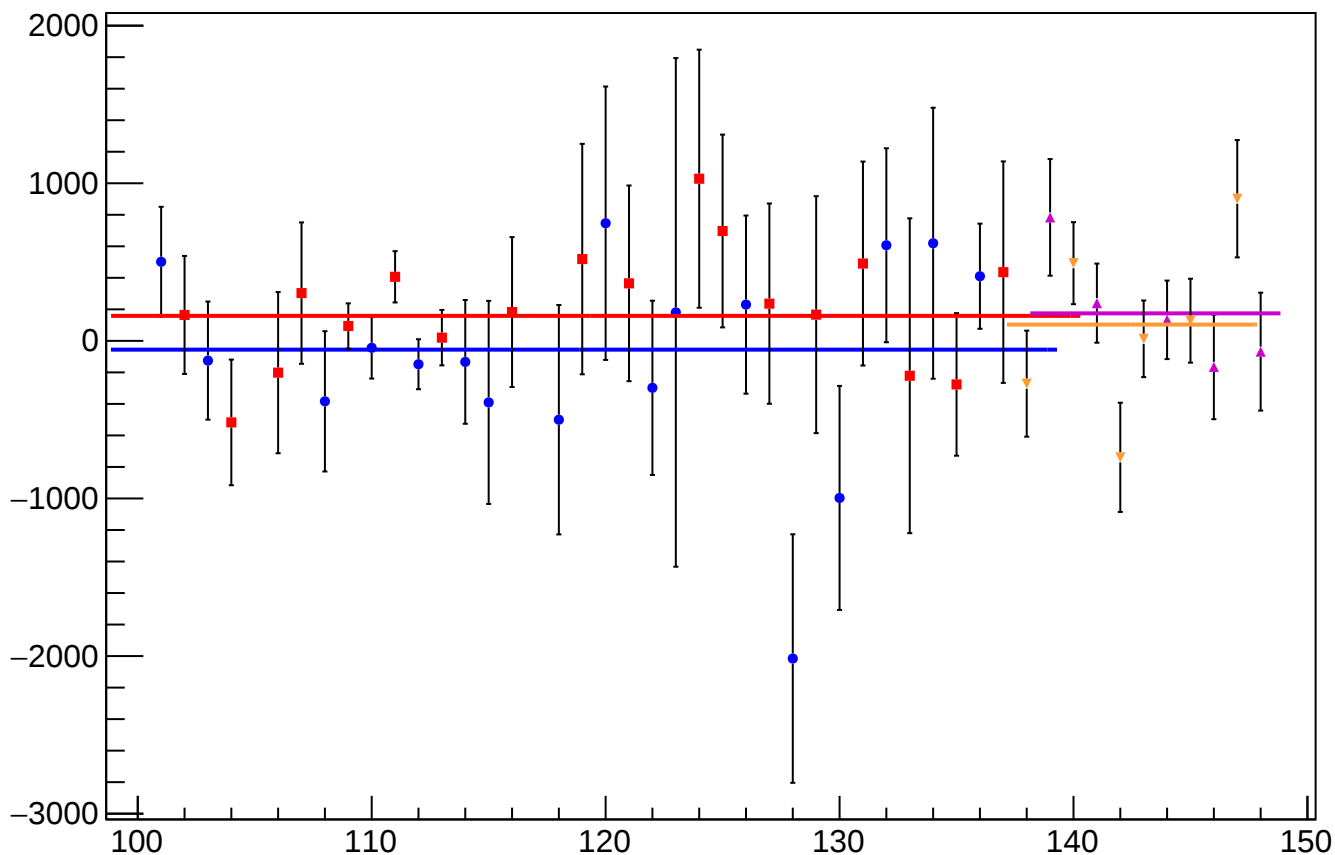
Left In: 263.393+/-0.094  $\chi^2/\text{NDF}$ : 277088.4/4

+ sign 197.064+/-0.048  $\chi^2/\text{NDF}$ : 4836220.5/22

All: 184.384+/-0.032  $\chi^2/\text{NDF}$ : 11184850.5/45

- sign 173.837+/-0.044  $\chi^2/\text{NDF}$ : 6219918.5/22

# asym\_sam8\_mean vs Slug



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $103.495 \pm 119.383$   $\chi^2/\text{NDF}$ : 14.1/5

Right Out:  $158.676 \pm 77.072$   $\chi^2/\text{NDF}$ : 10.4/17

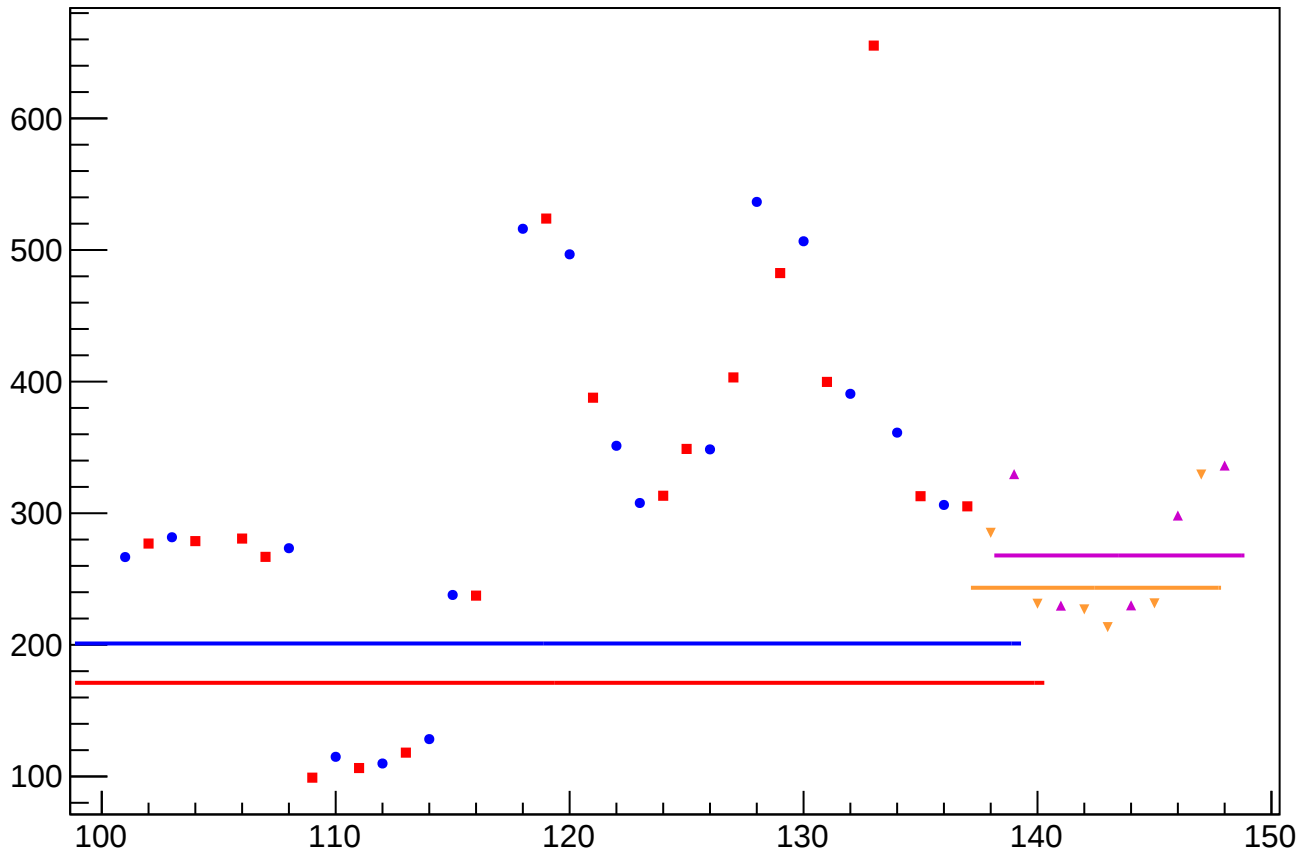
Left In:  $174.480 \pm 134.199$   $\chi^2/\text{NDF}$ : 4.3/4

+ sign  $2.441 \pm 72.156$   $\chi^2/\text{NDF}$ : 32.4/22

All:  $88.642 \pm 49.033$   $\chi^2/\text{NDF}$ : 49.7/45

- sign  $162.596 \pm 66.834$   $\chi^2/\text{NDF}$ : 14.7/22

# asym\_sam8\_rms vs Slug



Right In: 201.036+/-0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 243.379+/-0.084  $\chi^2/\text{NDF}$ : 180657.0/5

Right Out: 171.159+/-0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

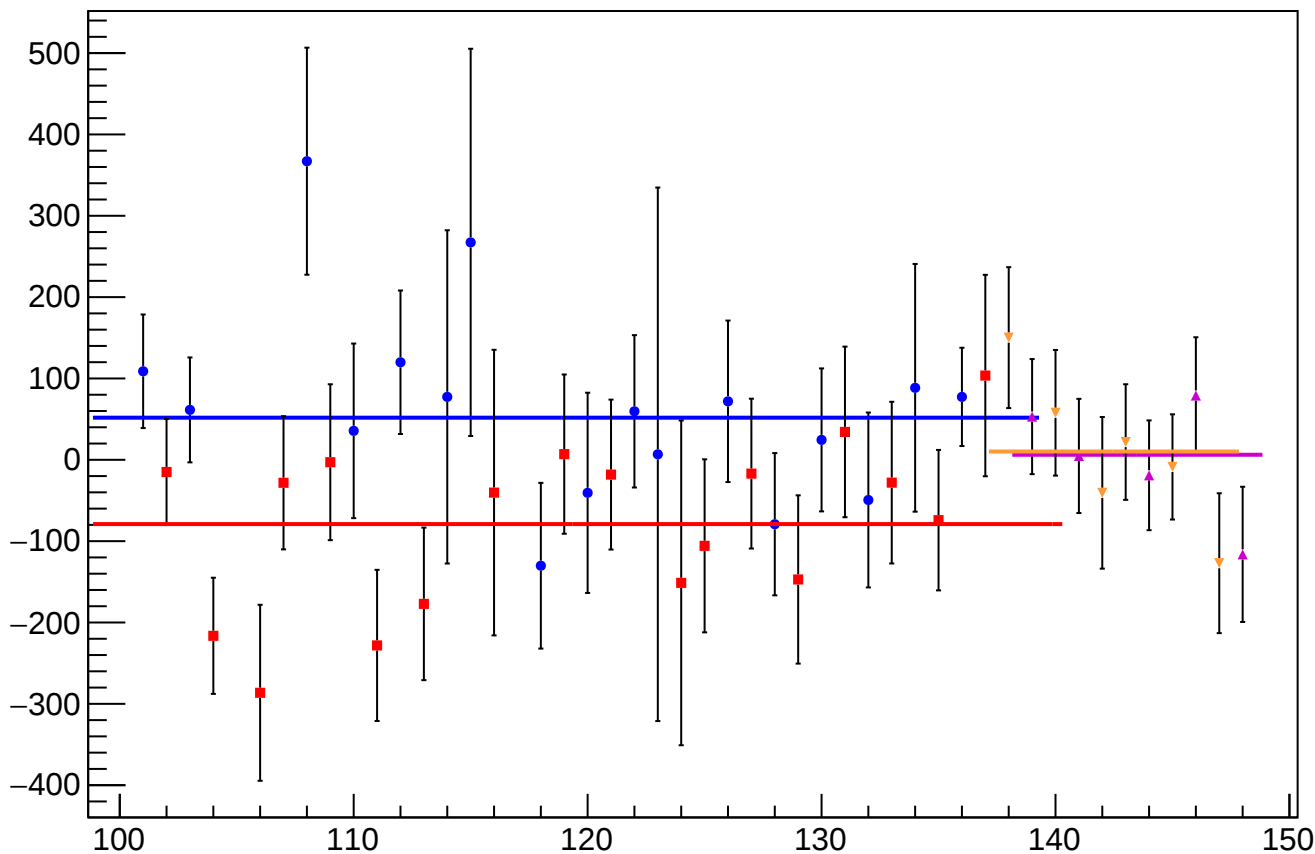
Left In: 267.917+/-0.095  $\chi^2/\text{NDF}$ : 231673.0/4

+ sign 216.505+/-0.051  $\chi^2/\text{NDF}$ : 3773367.0/22

All: 205.015+/-0.035  $\chi^2/\text{NDF}$ : 8946681.8/45

- sign 195.158+/-0.047  $\chi^2/\text{NDF}$ : 5079098.4/22

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 51.799 $\pm$ 23.538  $\chi^2$ /NDF: 14.5/16

Left Out: 10.204 $\pm$ 31.805  $\chi^2$ /NDF: 6.0/5

Right Out: -79.008 $\pm$ 22.499  $\chi^2$ /NDF: 19.0/17

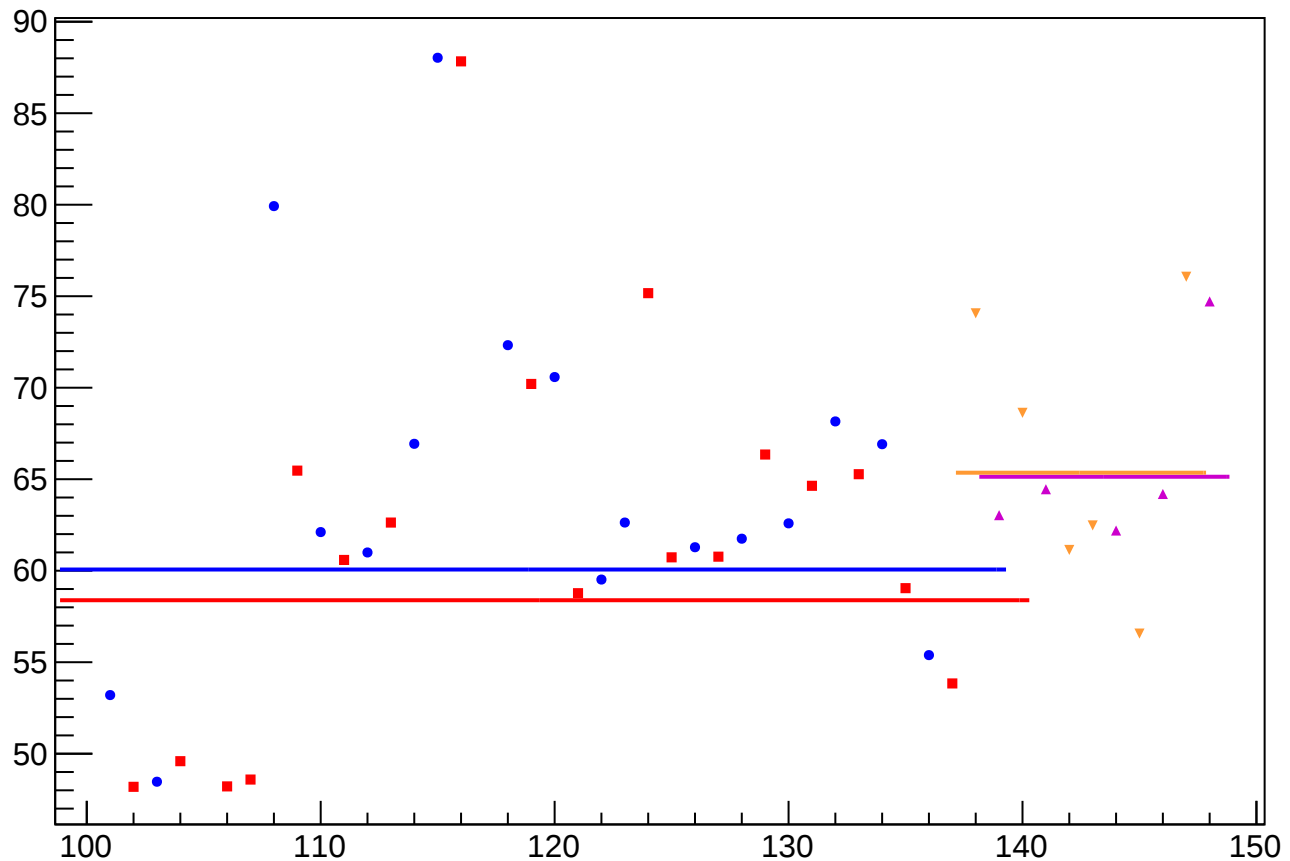
Left In: 6.213 $\pm$ 32.246  $\chi^2$ /NDF: 3.8/4

+ sign 37.079 $\pm$ 18.920  $\chi^2$ /NDF: 21.6/22

All: -8.118 $\pm$ 13.210  $\chi^2$ /NDF: 60.2/45

- sign -51.104 $\pm$ 18.452  $\chi^2$ /NDF: 27.5/22

dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In:  $60.065 \pm 0.017$   $\chi^2/\text{NDF}$ : 229098.7/16

Left Out:  $65.356 \pm 0.022$   $\chi^2/\text{NDF}$ : 99192.9/5

Right Out:  $58.387 \pm 0.016$   $\chi^2/\text{NDF}$ : 275017.2/17

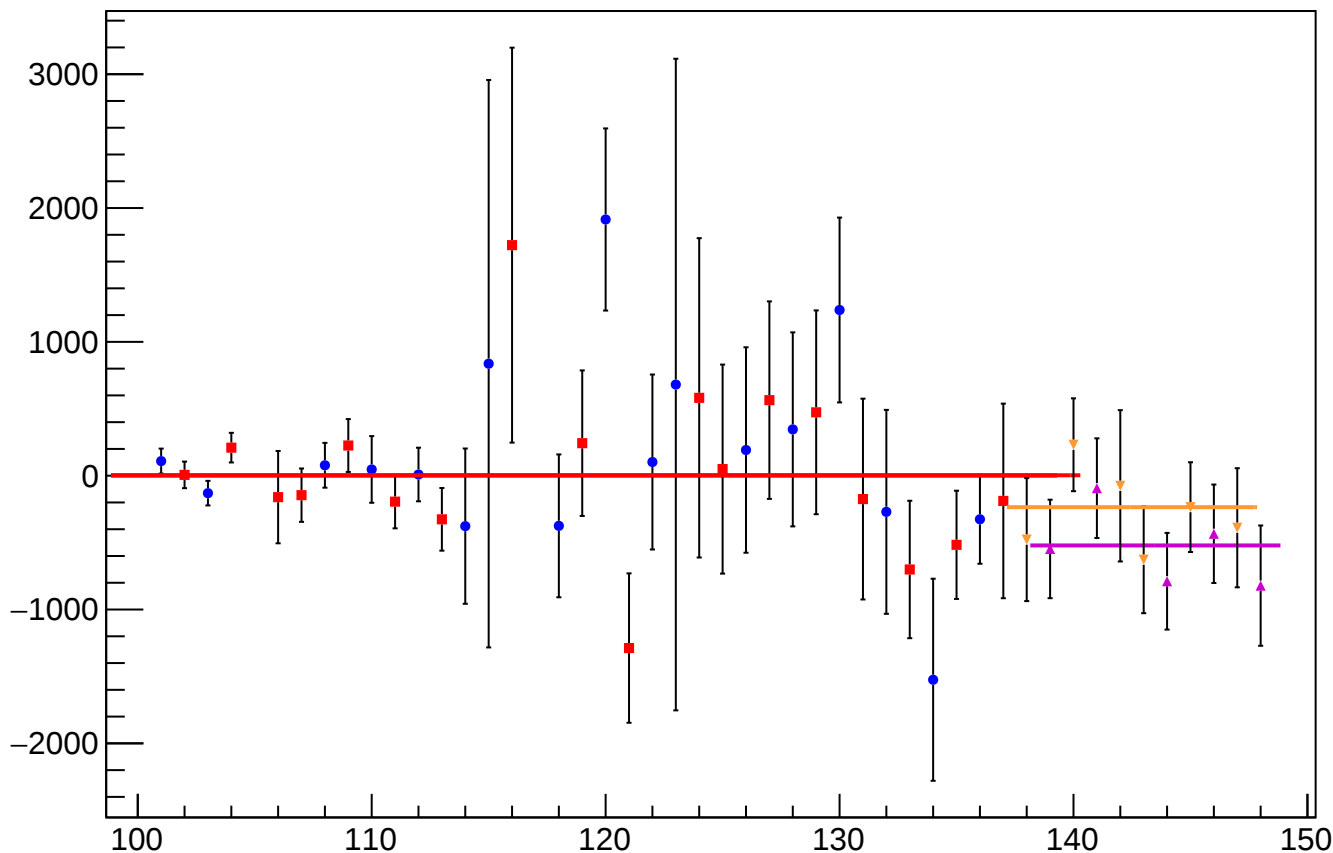
Left In:  $65.135 \pm 0.023$   $\chi^2/\text{NDF}$ : 32644.7/4

+ sign  $61.938 \pm 0.013$   $\chi^2/\text{NDF}$ : 364051.0/22

All:  $61.250 \pm 0.009$   $\chi^2/\text{NDF}$ : 735771.7/45

- sign  $60.596 \pm 0.013$   $\chi^2/\text{NDF}$ : 366569.8/22

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In:  $1.581 \pm 54.284$   $\chi^2/\text{NDF}$ : 21.4/16

Left Out:  $-235.234 \pm 165.818$   $\chi^2/\text{NDF}$ : 3.2/5

Right Out:  $3.242 \pm 56.611$   $\chi^2/\text{NDF}$ : 20.2/17

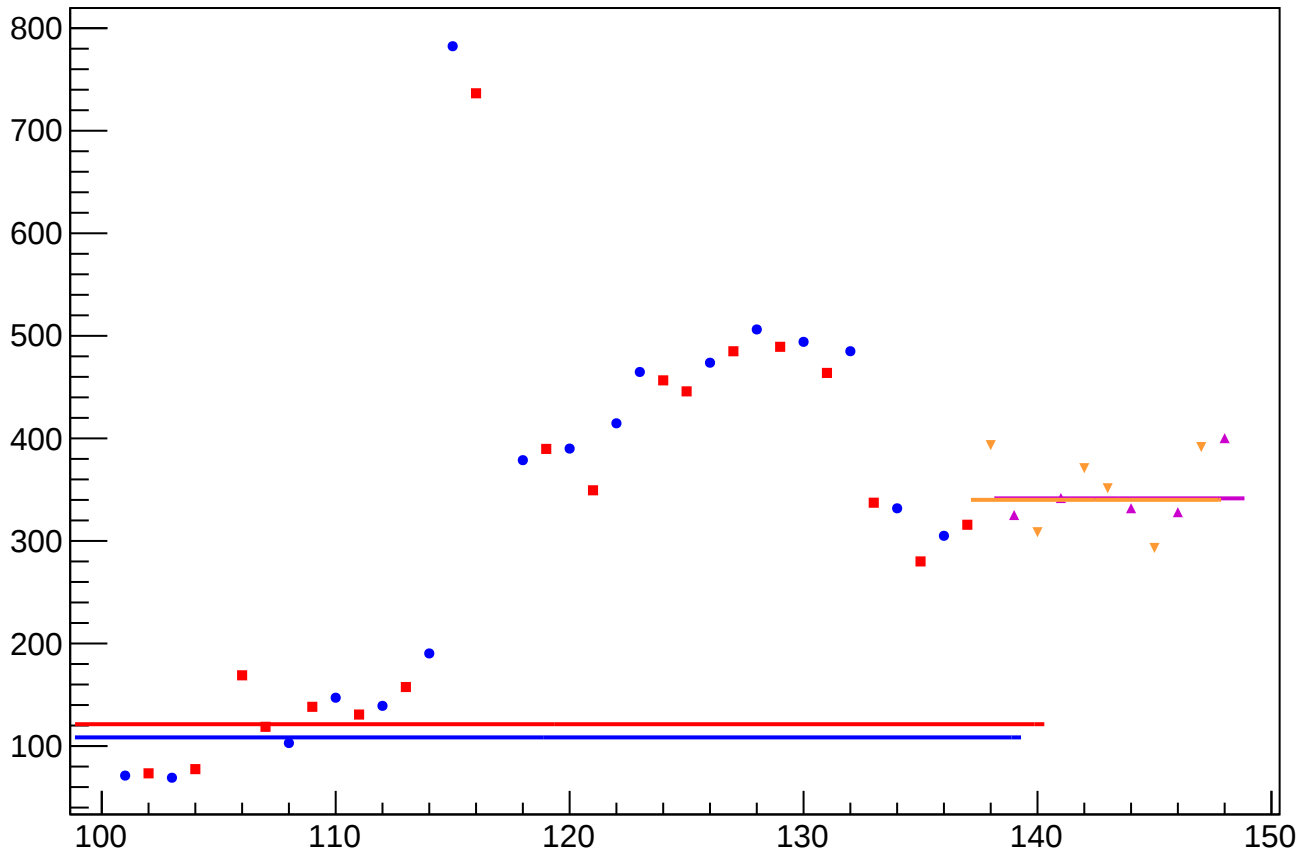
Left In:  $-521.087 \pm 169.987$   $\chi^2/\text{NDF}$ : 2.4/4

+ sign  $-21.343 \pm 51.590$   $\chi^2/\text{NDF}$ : 26.5/22

All:  $-34.665 \pm 37.207$   $\chi^2/\text{NDF}$ : 57.8/45

- sign  $-49.106 \pm 53.711$   $\chi^2/\text{NDF}$ : 31.2/22

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 108.445 $\pm$ 0.038  $\chi^2$ /NDF: 5404107.9/16

Left Out: 340.087 $\pm$ 0.117  $\chi^2$ /NDF: 116959.1/5

Right Out: 121.303 $\pm$ 0.040  $\chi^2$ /NDF: 4731568.2/17

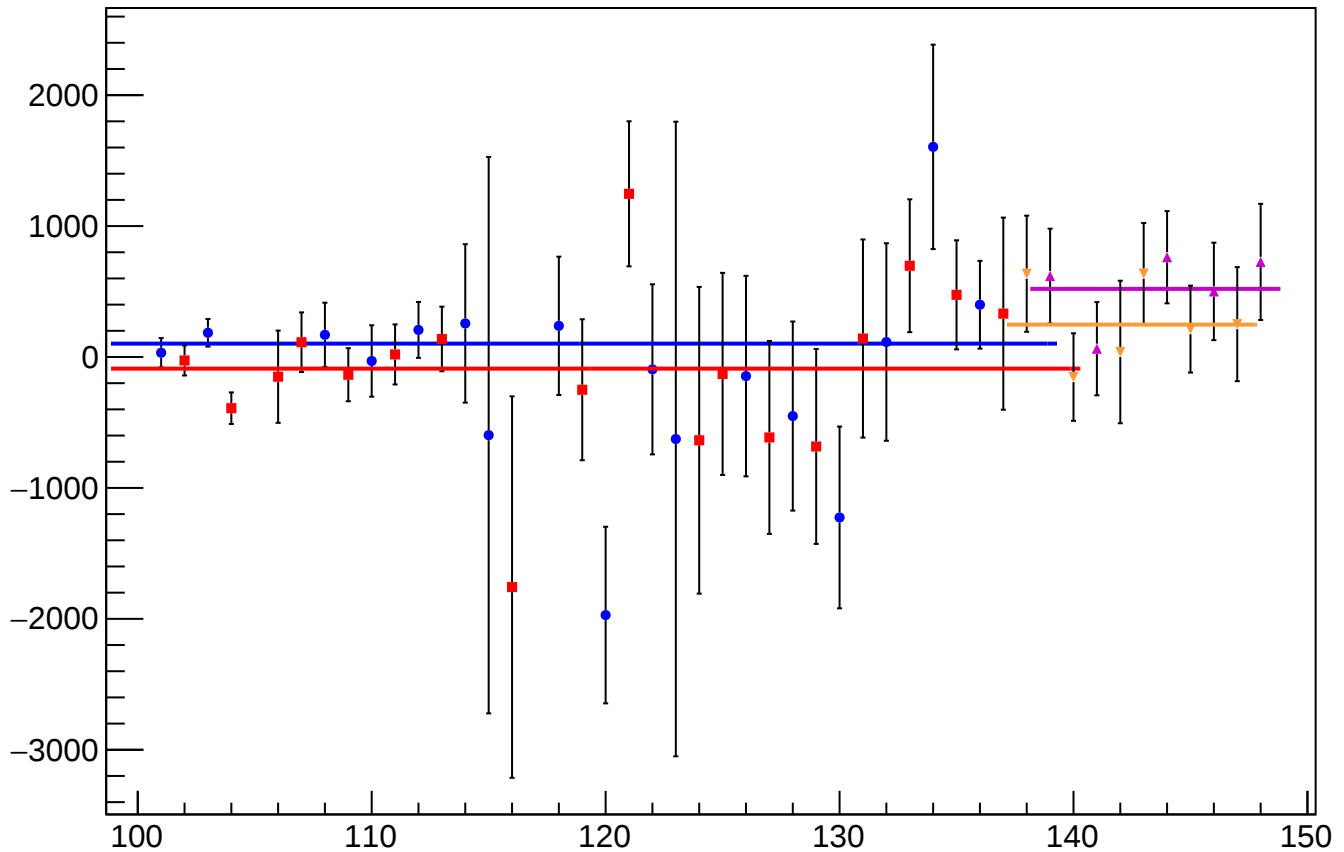
Left In: 341.522 $\pm$ 0.120  $\chi^2$ /NDF: 42103.2/4

+ sign 130.867 $\pm$ 0.036  $\chi^2$ /NDF: 9046275.5/22

All: 136.828 $\pm$ 0.026  $\chi^2$ /NDF: 16897135.1/45

- sign 143.290 $\pm$ 0.038  $\chi^2$ /NDF: 7795216.6/22

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 102.221 $\pm$ 63.127  $\chi^2$ /NDF: 20.3/16

Left Out: 247.367 $\pm$ 161.270  $\chi^2$ /NDF:3.4/5

Right Out: -88.841 $\pm$ 62.230  $\chi^2$ /NDF: 21.7/17

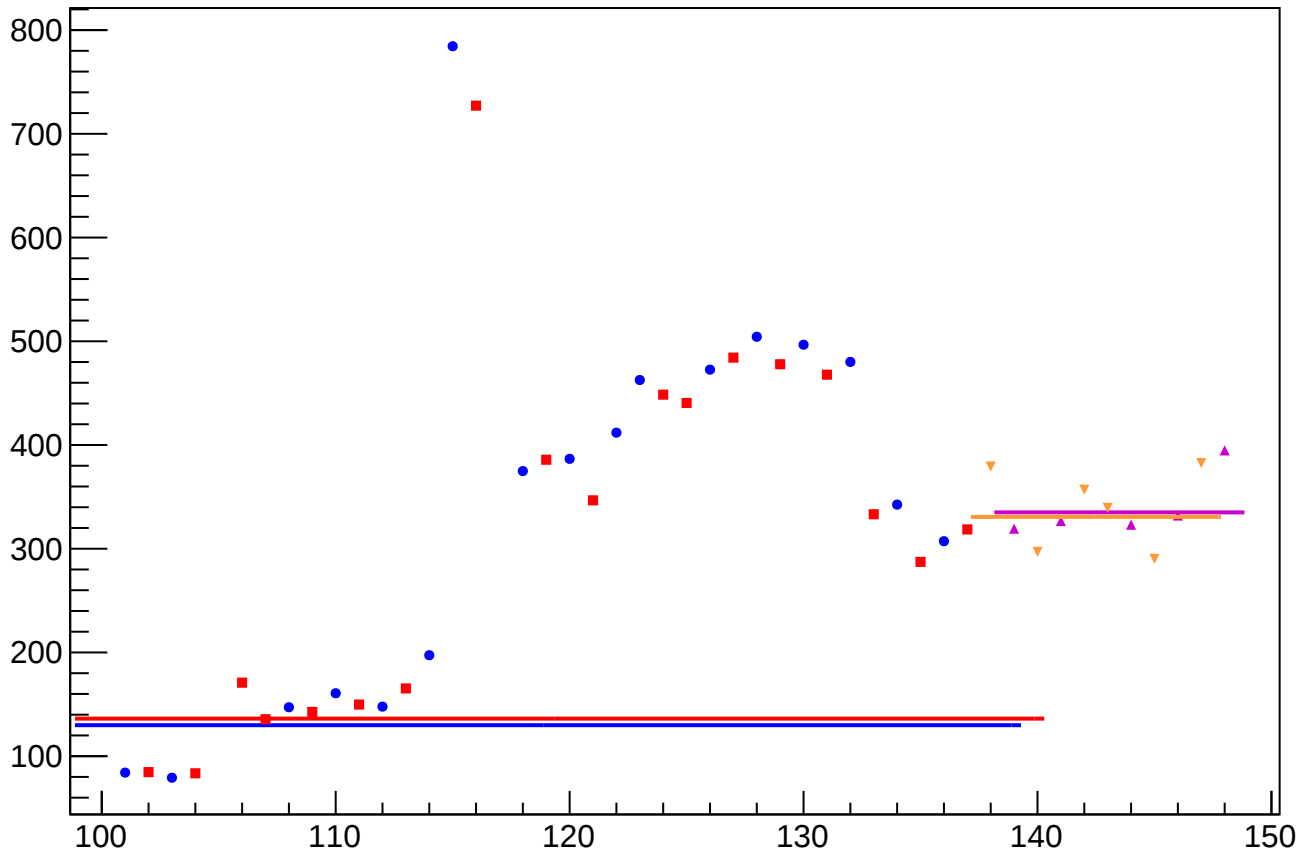
Left In: 520.331 $\pm$ 166.882  $\chi^2$ /NDF:2.4/4

+ sign 121.506 $\pm$ 58.784  $\chi^2$ /NDF: 24.3/22

All: 52.963 $\pm$ 41.397  $\chi^2$ /NDF: 62.9/45

- sign -14.474 $\pm$ 58.308  $\chi^2$ /NDF: 35.8/22

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 330.667+/-0.114  $\chi^2/\text{NDF}$ : 107998.8/5

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

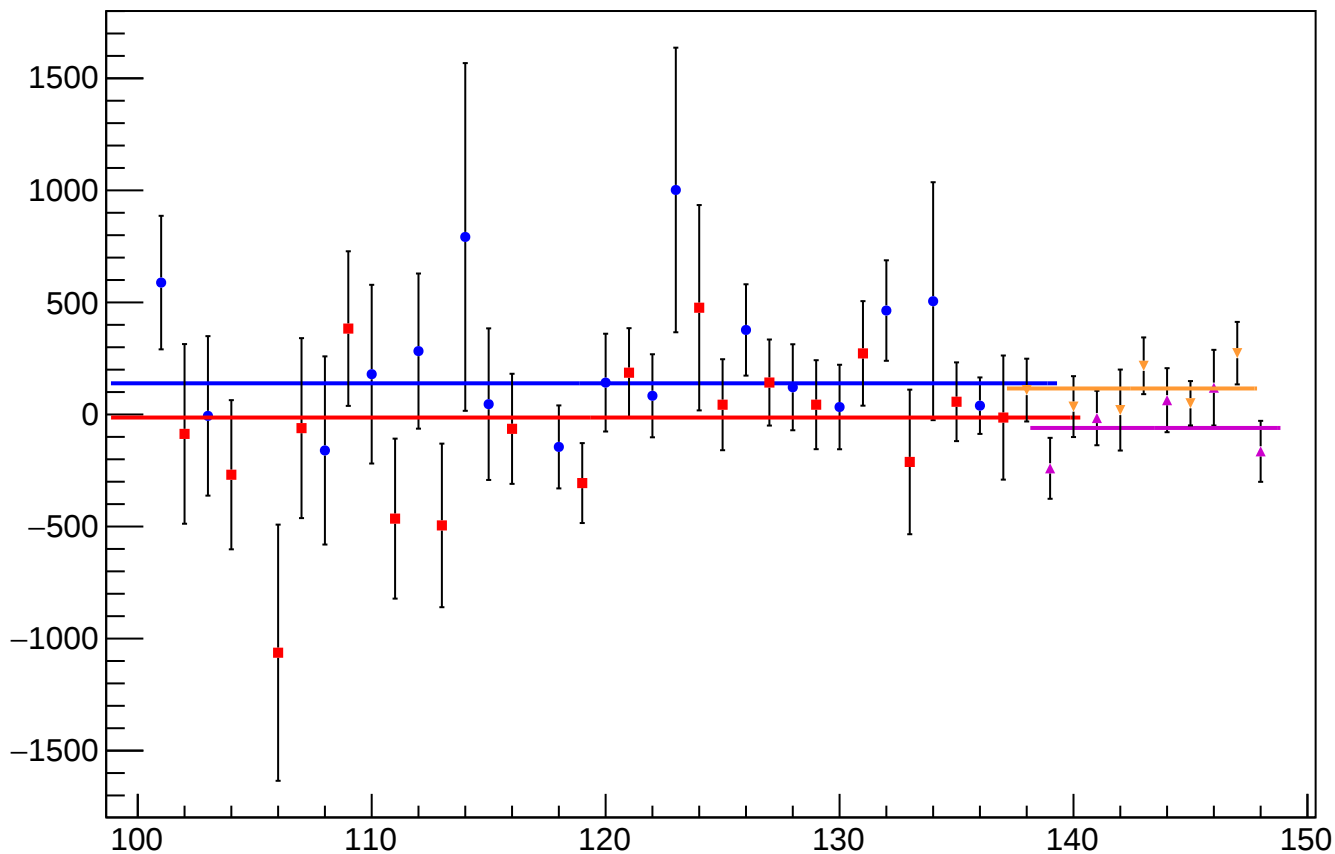
Left In: 335.043+/-0.118  $\chi^2/\text{NDF}$ : 43587.3/4

+ sign 156.561+/-0.042  $\chi^2/\text{NDF}$ : 7625721.0/22

All: 158.545+/-0.029  $\chi^2/\text{NDF}$ : 14448790.9/45

- sign 160.496+/-0.041  $\chi^2/\text{NDF}$ : 6818552.1/22

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 139.093 $\pm$ 57.982  $\chi^2$ /NDF: 13.1/16

Left Out: 116.004 $\pm$ 53.320  $\chi^2$ /NDF: 3.0/5

Right Out: -13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

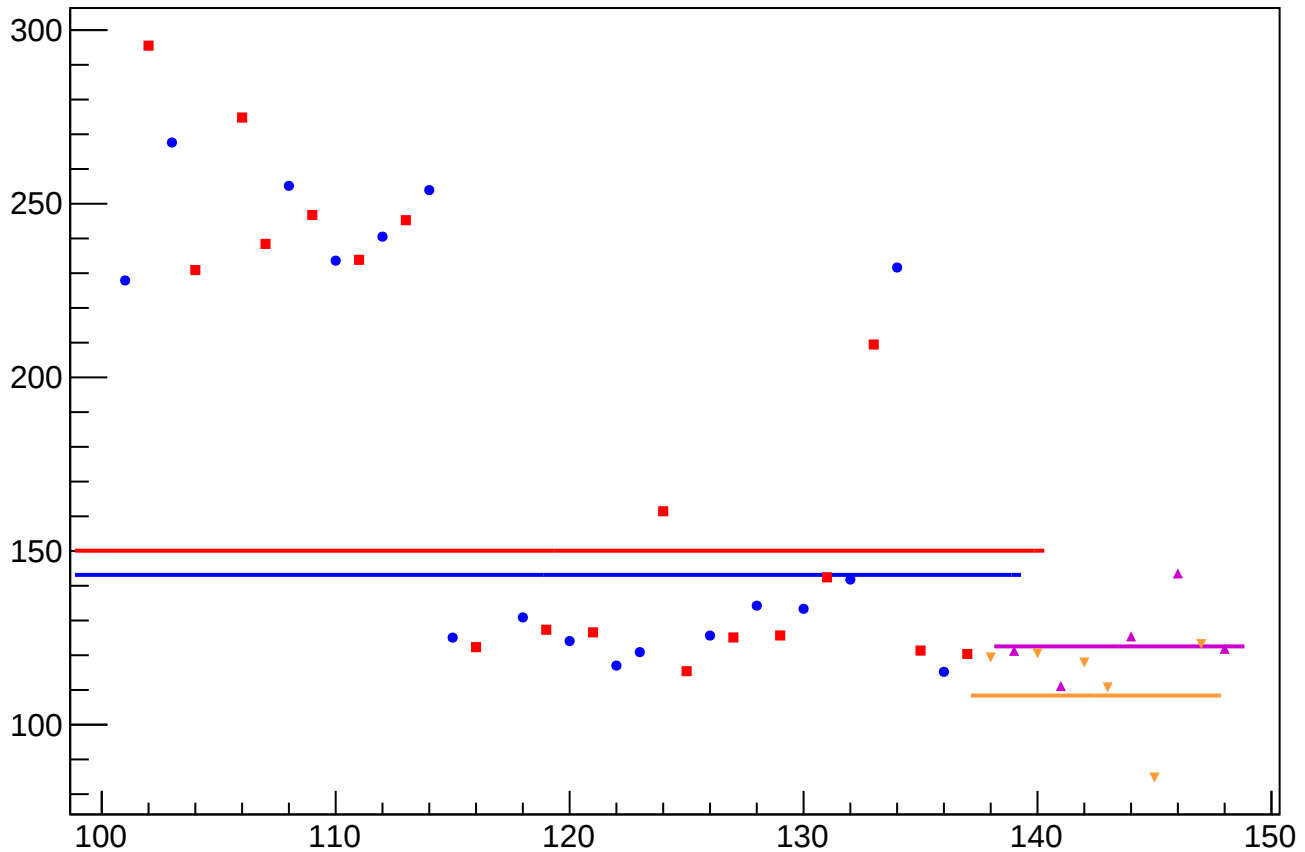
Left In: -60.136 $\pm$ 62.017  $\chi^2$ /NDF: 4.4/4

+ sign 126.583 $\pm$ 39.248  $\chi^2$ /NDF: 16.2/22

All: 52.934 $\pm$ 29.040  $\chi^2$ /NDF: 45.0/45

- sign -36.167 $\pm$ 43.169  $\chi^2$ /NDF: 21.1/22

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 108.401 $\pm$ 0.038  $\chi^2$ /NDF:170816.3/5

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

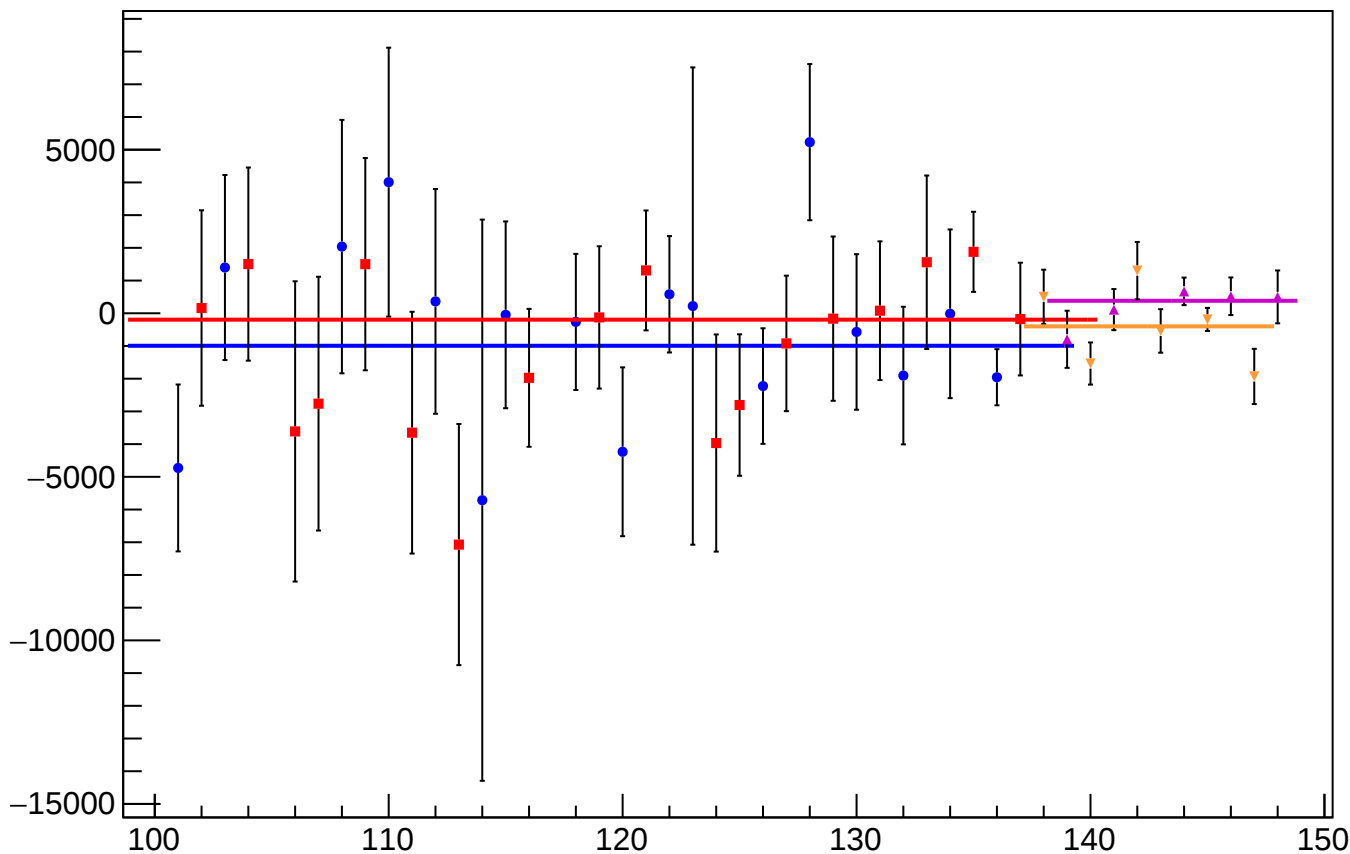
Left In: 122.545 $\pm$ 0.044  $\chi^2$ /NDF:49677.2/4

+ sign 124.318 $\pm$ 0.028  $\chi^2$ /NDF: 1661055.6/22

All: 129.945 $\pm$ 0.021  $\chi^2$ /NDF: 3338027.2/45

- sign 136.753 $\pm$ 0.031  $\chi^2$ /NDF: 1586113.8/22

# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In:  $-993.785 \pm 516.463$   $\chi^2/\text{NDF}: 16.9/16$

Left Out:  $-399.366 \pm 243.782$   $\chi^2/\text{NDF}: 11.8/5$

Right Out:  $-195.049 \pm 543.821$   $\chi^2/\text{NDF}: 13.5/17$

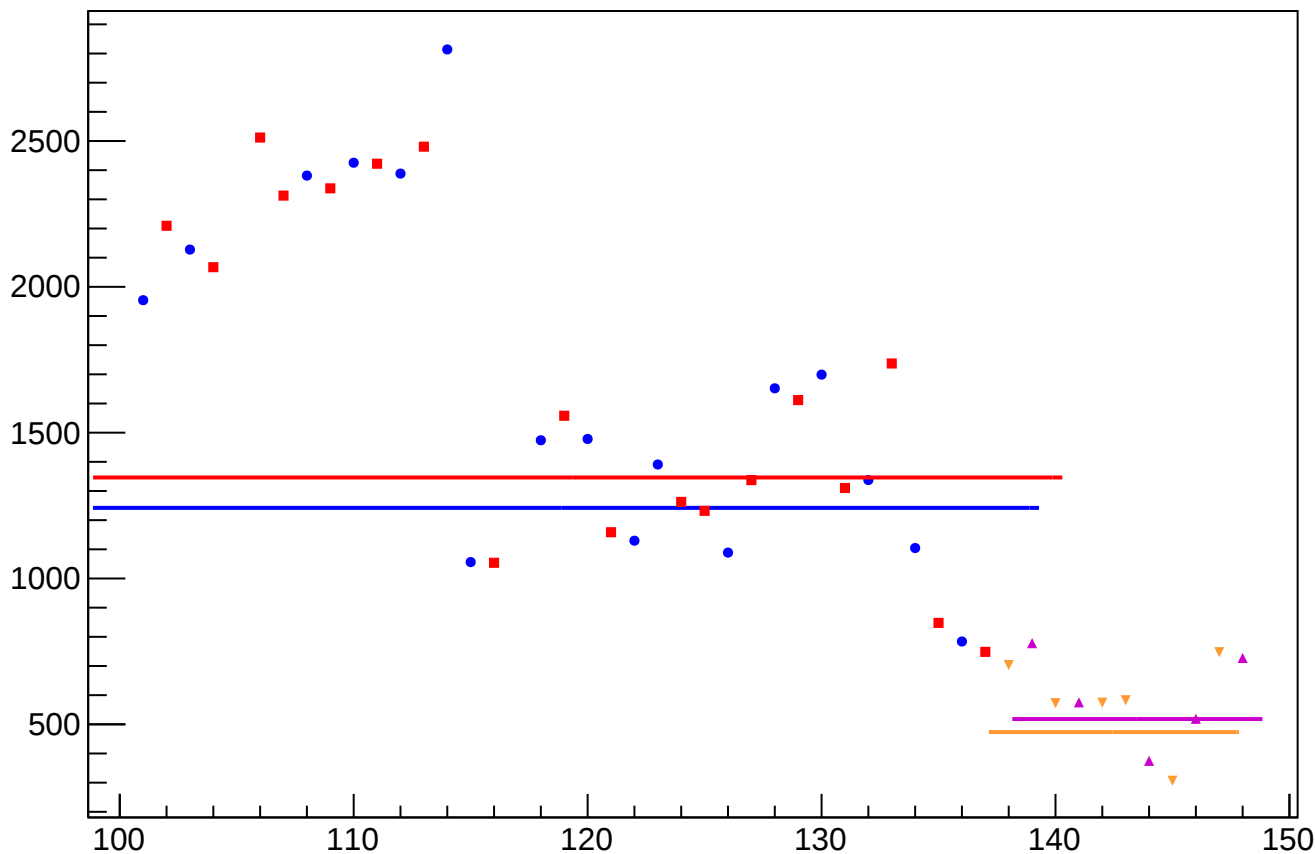
Left In:  $381.797 \pm 266.832$   $\chi^2/\text{NDF}: 2.6/4$

+ sign  $-507.674 \pm 220.457$   $\chi^2/\text{NDF}: 29.8/22$

All:  $-151.120 \pm 162.217$   $\chi^2/\text{NDF}: 52.5/45$

- sign  $269.869 \pm 239.550$   $\chi^2/\text{NDF}: 17.0/22$

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 473.406 $\pm$ 0.172  $\chi^2$ /NDF:936824.3/5

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

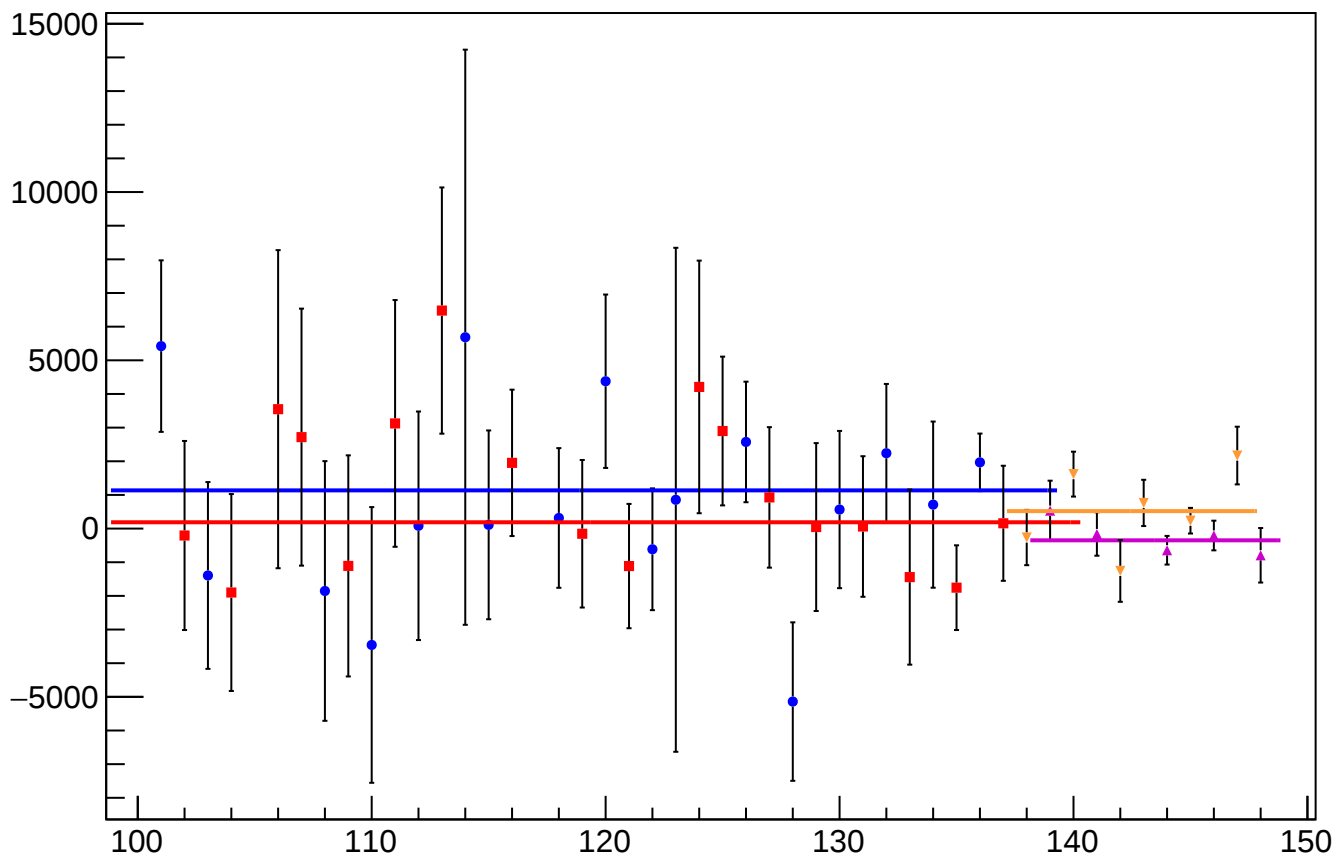
Left In: 518.075 $\pm$ 0.189  $\chi^2$ /NDF:560475.8/4

+ sign 613.482 $\pm$ 0.156  $\chi^2$ /NDF: 6328197.9/22

All: 643.429 $\pm$ 0.115  $\chi^2$ /NDF: 12517458.3/45

- sign 678.787 $\pm$ 0.169  $\chi^2$ /NDF: 6108781.6/22

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 518.947 $\pm$ 255.774  $\chi^2$ /NDF: 11.8/5

Right Out: 187.508 $\pm$ 548.191  $\chi^2$ /NDF: 12.0/17

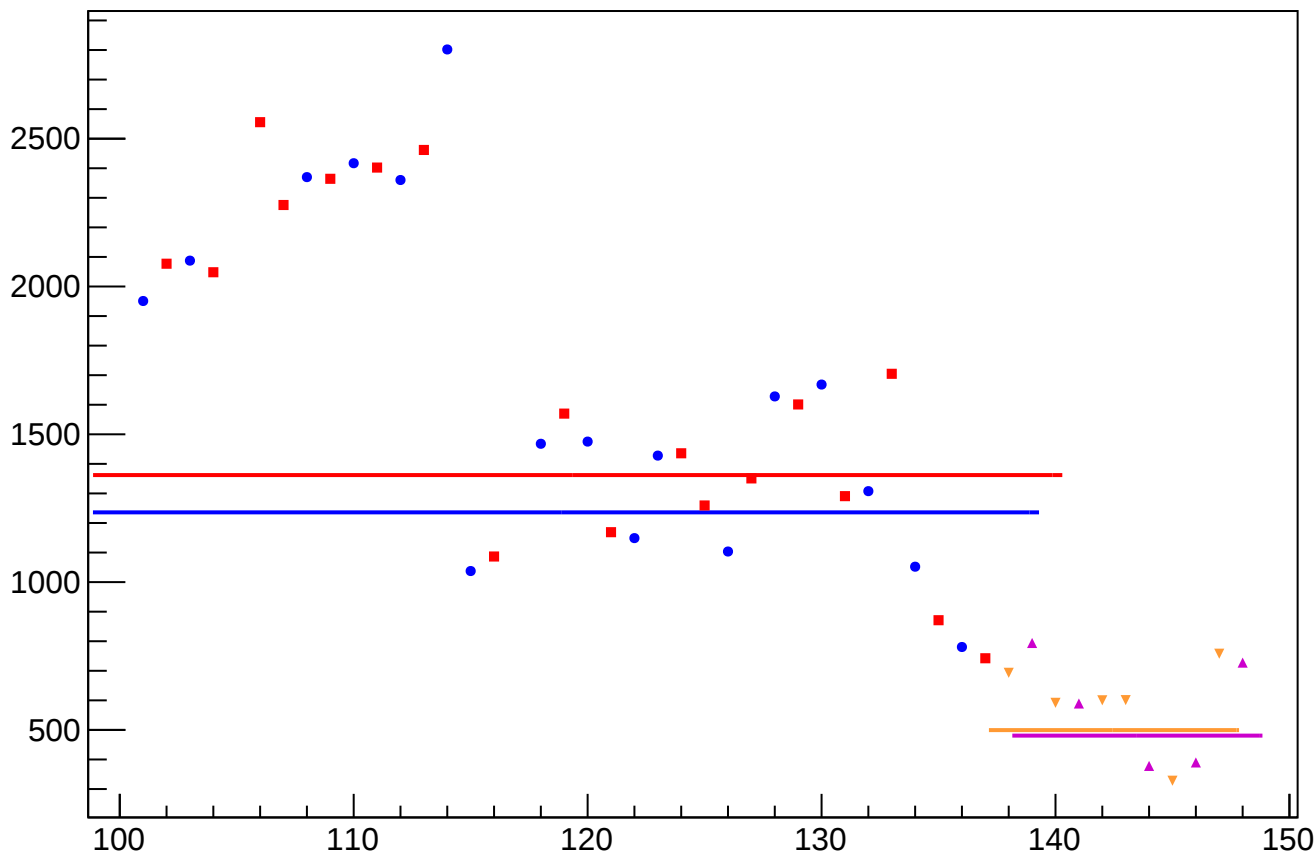
Left In: -349.060 $\pm$ 251.143  $\chi^2$ /NDF: 1.9/4

+ sign 641.349 $\pm$ 228.969  $\chi^2$ /NDF: 30.7/22

All: 191.418 $\pm$ 161.677  $\chi^2$ /NDF: 53.1/45

- sign -255.979 $\pm$ 228.323  $\chi^2$ /NDF: 14.7/22

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 499.349+/-0.181  $\chi^2/\text{NDF}$ : 803400.4/5

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

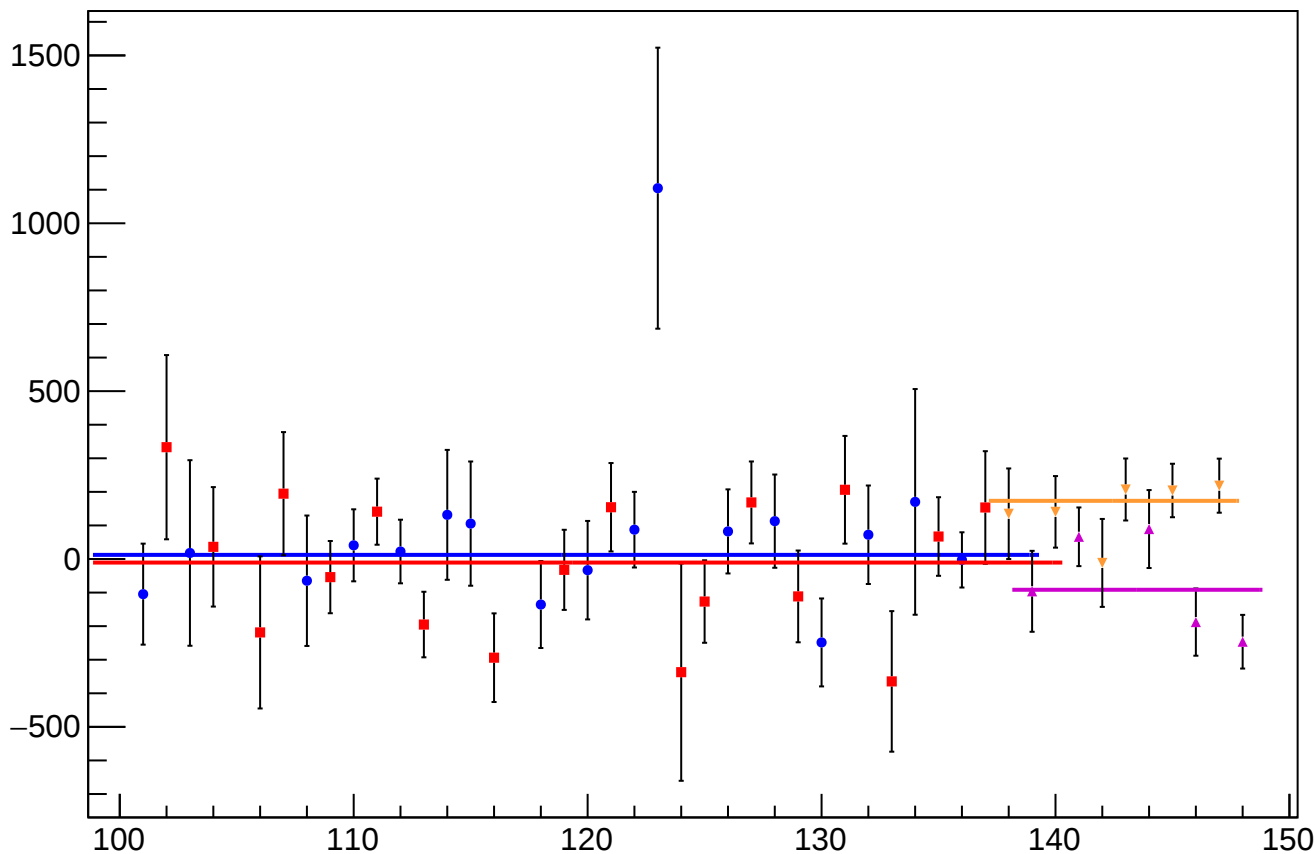
Left In: 480.718+/-0.178  $\chi^2/\text{NDF}$ : 691003.2/4

+ sign 645.648+/-0.162  $\chi^2/\text{NDF}$ : 5843570.9/22

All: 639.614+/-0.114  $\chi^2/\text{NDF}$ : 12519689.8/45

- sign 633.614+/-0.161  $\chi^2/\text{NDF}$ : 6673349.0/22

dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 12.308+/-33.228  $\chi^2/\text{NDF}$ : 15.4/16

Left Out: 173.288+/-39.827  $\chi^2/\text{NDF}$ : 2.8/5

Right Out: -10.591+/-32.606  $\chi^2/\text{NDF}$ : 26.7/17

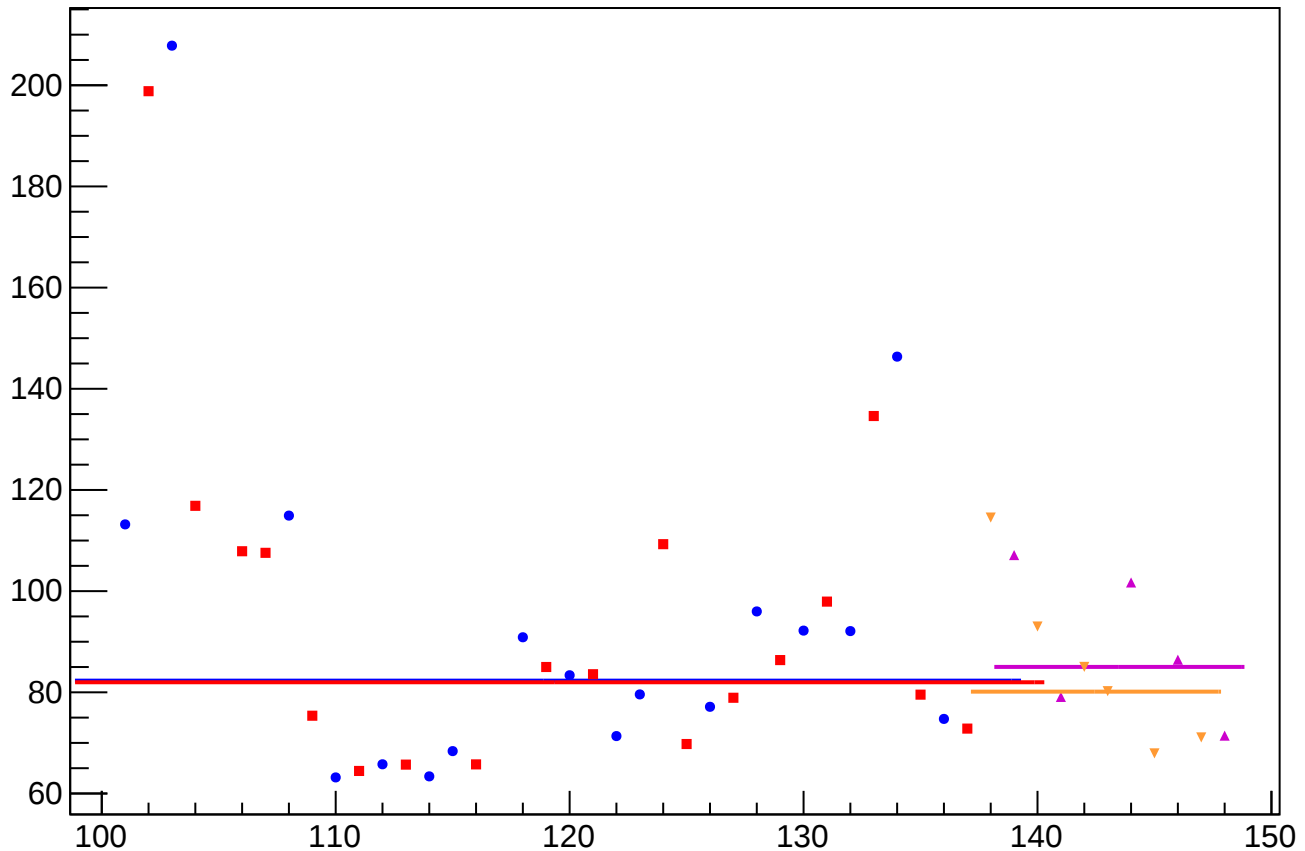
Left In: -91.638+/-43.434  $\chi^2/\text{NDF}$ : 10.4/4

+ sign 78.374+/-25.514  $\chi^2/\text{NDF}$ : 27.8/22

All: 20.572+/-18.237  $\chi^2/\text{NDF}$ : 77.6/45

- sign -39.803+/-26.076  $\chi^2/\text{NDF}$ : 39.3/22

dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In:  $82.306 \pm 0.023$   $\chi^2/\text{NDF}$ : 868742.4/16

Left Out:  $80.133 \pm 0.028$   $\chi^2/\text{NDF}$ : 234256.9/5

Right Out:  $81.987 \pm 0.023$   $\chi^2/\text{NDF}$ : 853217.2/17

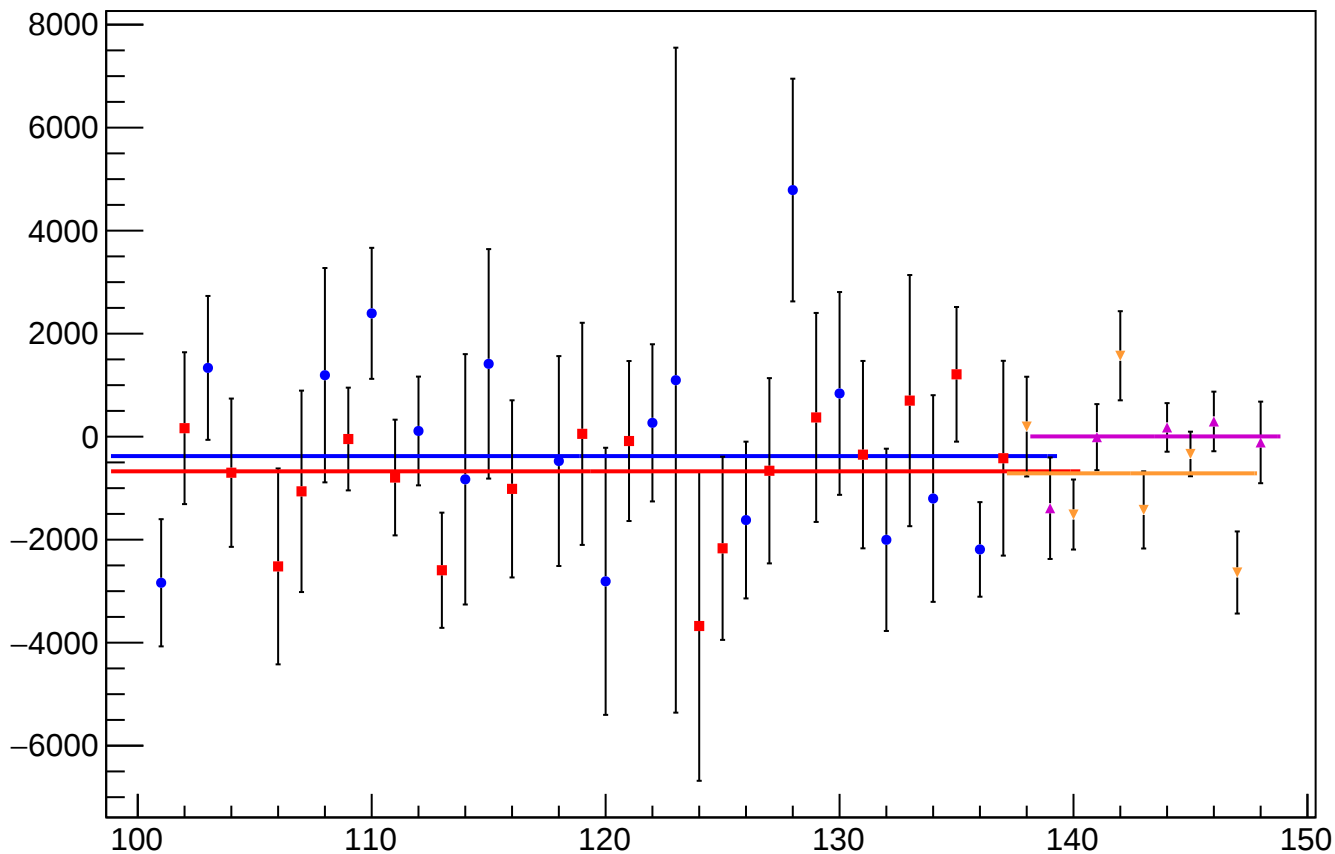
Left In:  $85.023 \pm 0.031$   $\chi^2/\text{NDF}$ : 175972.0/4

+ sign  $81.414 \pm 0.018$   $\chi^2/\text{NDF}$ : 1106507.7/22

All:  $82.230 \pm 0.013$   $\chi^2/\text{NDF}$ : 2146120.7/45

- sign  $83.081 \pm 0.018$   $\chi^2/\text{NDF}$ : 1035436.6/22

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}$ : 24.5/16

Left Out:  $-712.159 \pm 274.572$   $\chi^2/\text{NDF}$ : 16.7/5

Right Out:  $-673.192 \pm 368.624$   $\chi^2/\text{NDF}$ : 9.4/17

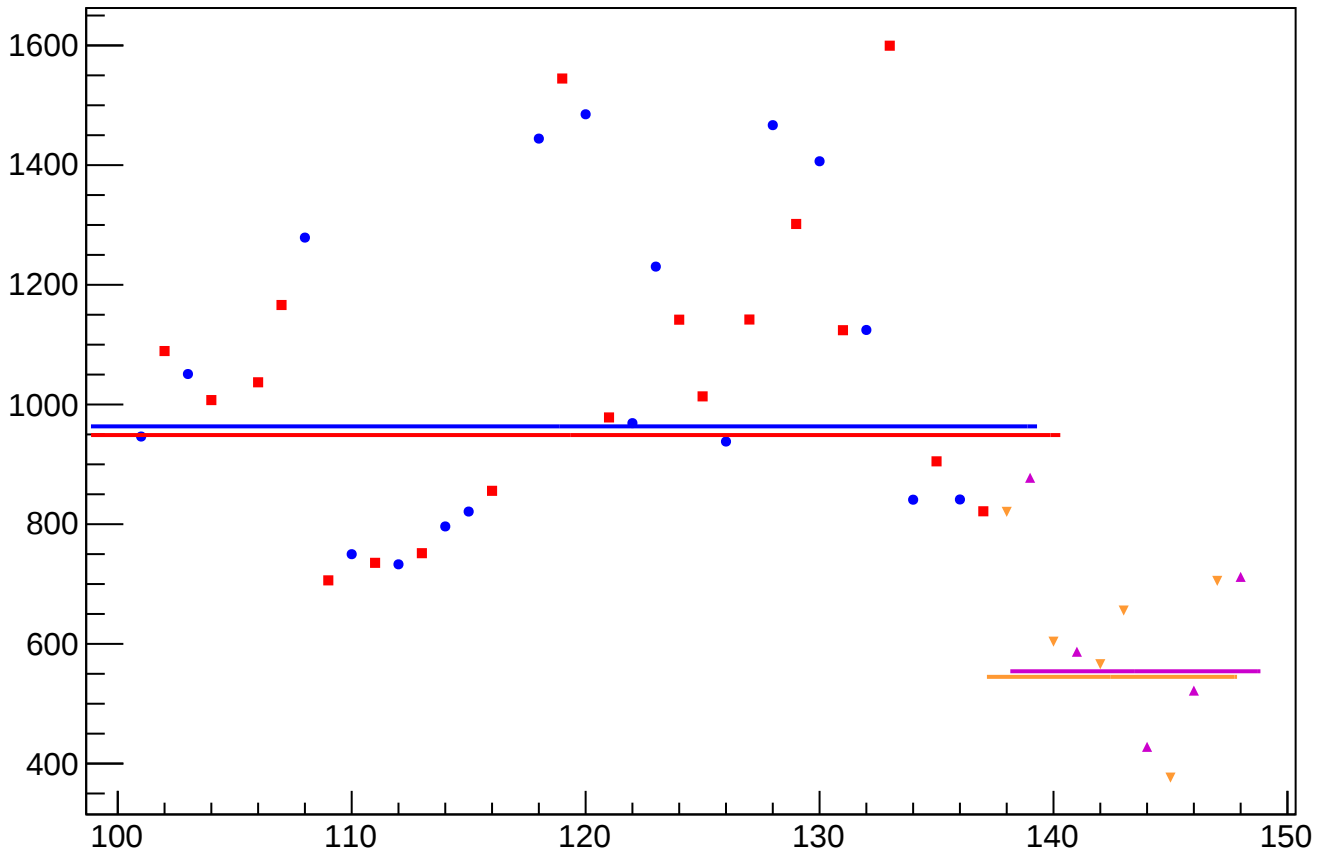
Left In:  $4.537 \pm 282.459$   $\chi^2/\text{NDF}$ : 2.4/4

+ sign  $-598.844 \pm 223.330$   $\chi^2/\text{NDF}$ : 41.7/22

All:  $-423.203 \pm 158.227$   $\chi^2/\text{NDF}$ : 56.8/45

- sign  $-246.181 \pm 224.206$   $\chi^2/\text{NDF}$ : 13.9/22

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 963.469 $\pm$ 0.271  $\chi^2$ /NDF: 688873.3/16

Left Out: 544.916 $\pm$ 0.194  $\chi^2$ /NDF: 605938.7/5

Right Out: 948.947 $\pm$ 0.261  $\chi^2$ /NDF: 729378.3/17

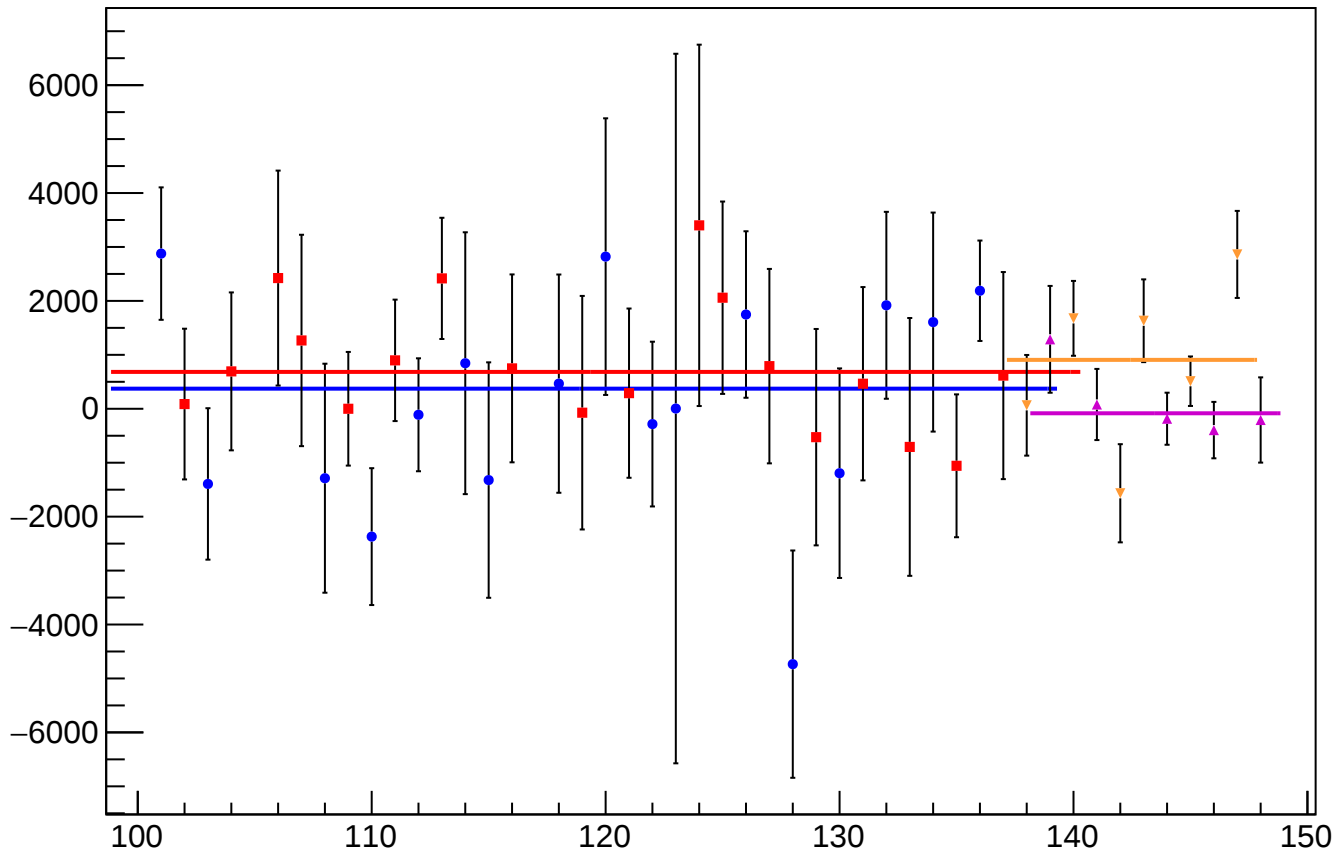
Left In: 554.228 $\pm$ 0.200  $\chi^2$ /NDF: 449226.5/4

+ sign 686.565 $\pm$ 0.158  $\chi^2$ /NDF: 2867636.0/22

All: 693.380 $\pm$ 0.112  $\chi^2$ /NDF: 5494833.9/45

- sign 700.250 $\pm$ 0.159  $\chi^2$ /NDF: 2623457.8/22

# asym\_sam\_37\_avg\_mean vs Slug



Right In: 372.896 $\pm$ 383.661  $\chi^2$ /NDF: 25.3/16

Left Out: 906.713 $\pm$ 283.792  $\chi^2$ /NDF:16.9/5

Right Out: 683.612 $\pm$ 372.418  $\chi^2$ /NDF: 7.8/17

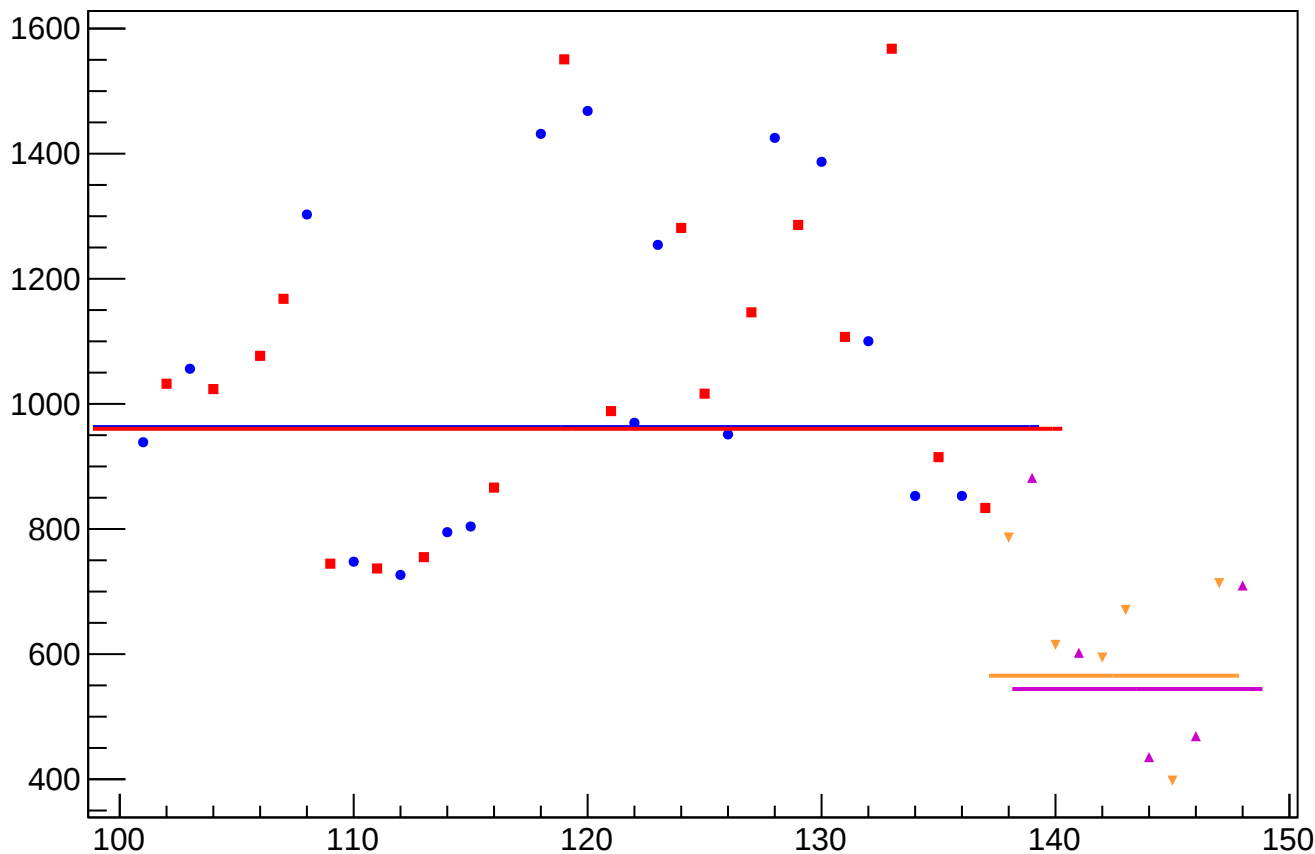
Left In: -83.518 $\pm$ 278.748  $\chi^2$ /NDF:2.4/4

+ sign 717.930 $\pm$ 228.157  $\chi^2$ /NDF: 43.5/22

All: 449.109 $\pm$ 159.536  $\chi^2$ /NDF: 59.1/45

- sign 191.933 $\pm$ 223.161  $\chi^2$ /NDF: 12.9/22

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 565.537 $\pm$ 0.201  $\chi^2$ /NDF: 495945.6/5

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

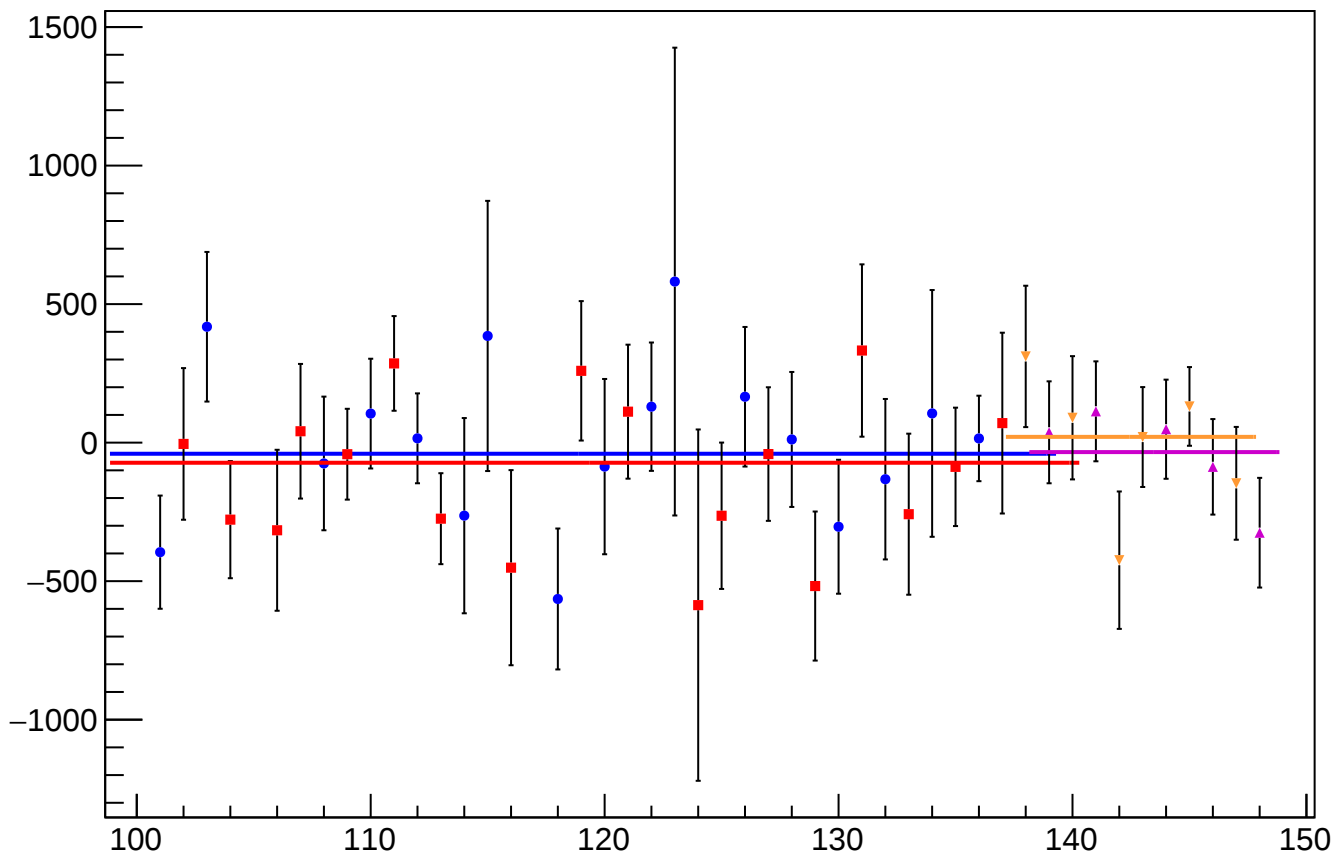
Left In: 544.217 $\pm$ 0.197  $\chi^2$ /NDF: 478781.0/4

+ sign 706.089 $\pm$ 0.161  $\chi^2$ /NDF: 2550644.0/22

All: 699.700 $\pm$ 0.113  $\chi^2$ /NDF: 5302954.8/45

- sign 693.588 $\pm$ 0.158  $\chi^2$ /NDF: 2749242.7/22

dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In: -40.122+/-59.256  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: 20.814+/-79.989  $\chi^2/\text{NDF}$ : 5.9/5

Right Out: -72.607+/-56.313  $\chi^2/\text{NDF}$ : 17.6/17

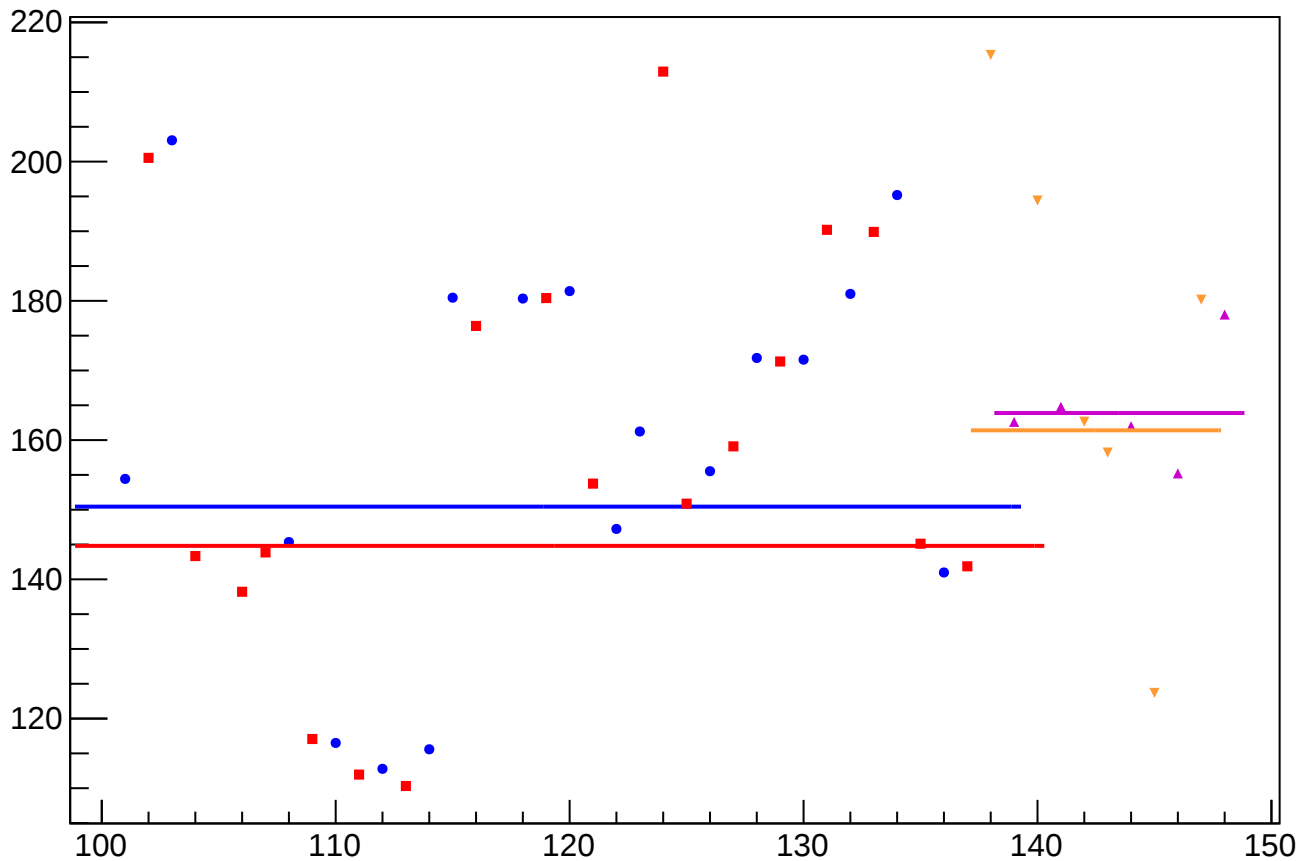
Left In: -34.146+/-81.467  $\chi^2/\text{NDF}$ : 3.3/4

+ sign -18.530+/-47.614  $\chi^2/\text{NDF}$ : 21.6/22

All: -39.923+/-33.203  $\chi^2/\text{NDF}$ : 43.0/45

- sign -60.171+/-46.324  $\chi^2/\text{NDF}$ : 21.0/22

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 161.402 $\pm$ 0.057  $\chi^2$ /NDF: 292080.2/5

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

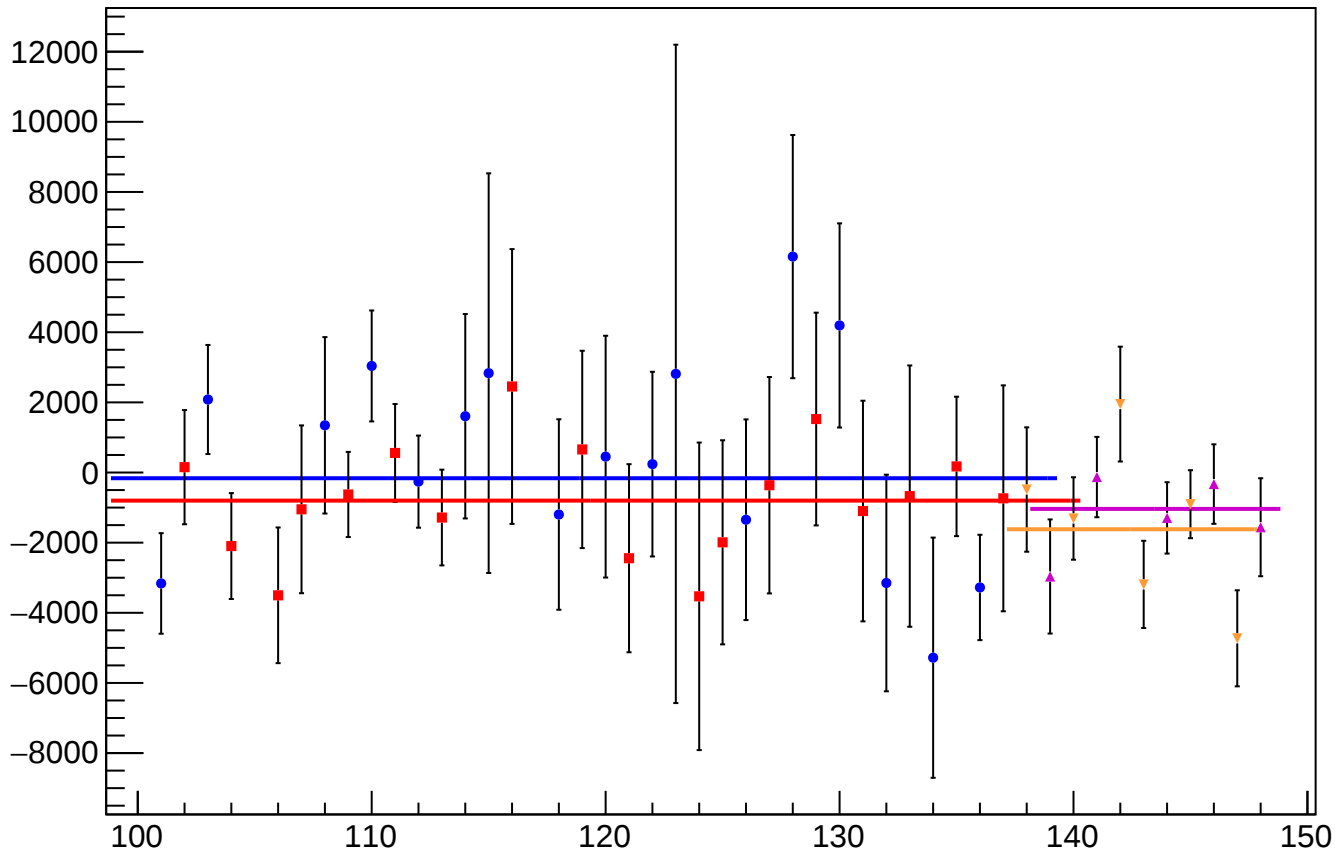
Left In: 163.889 $\pm$ 0.058  $\chi^2$ /NDF: 15640.4/4

+ sign 154.325 $\pm$ 0.034  $\chi^2$ /NDF: 716447.1/22

All: 152.605 $\pm$ 0.023  $\chi^2$ /NDF: 1315281.0/45

- sign 150.977 $\pm$ 0.033  $\chi^2$ /NDF: 593751.9/22

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}: 25.1/16$

Left Out:  $-1617.655 \pm 522.796$   $\chi^2/\text{NDF}: 12.5/5$

Right Out:  $-801.139 \pm 486.610$   $\chi^2/\text{NDF}: 6.9/17$

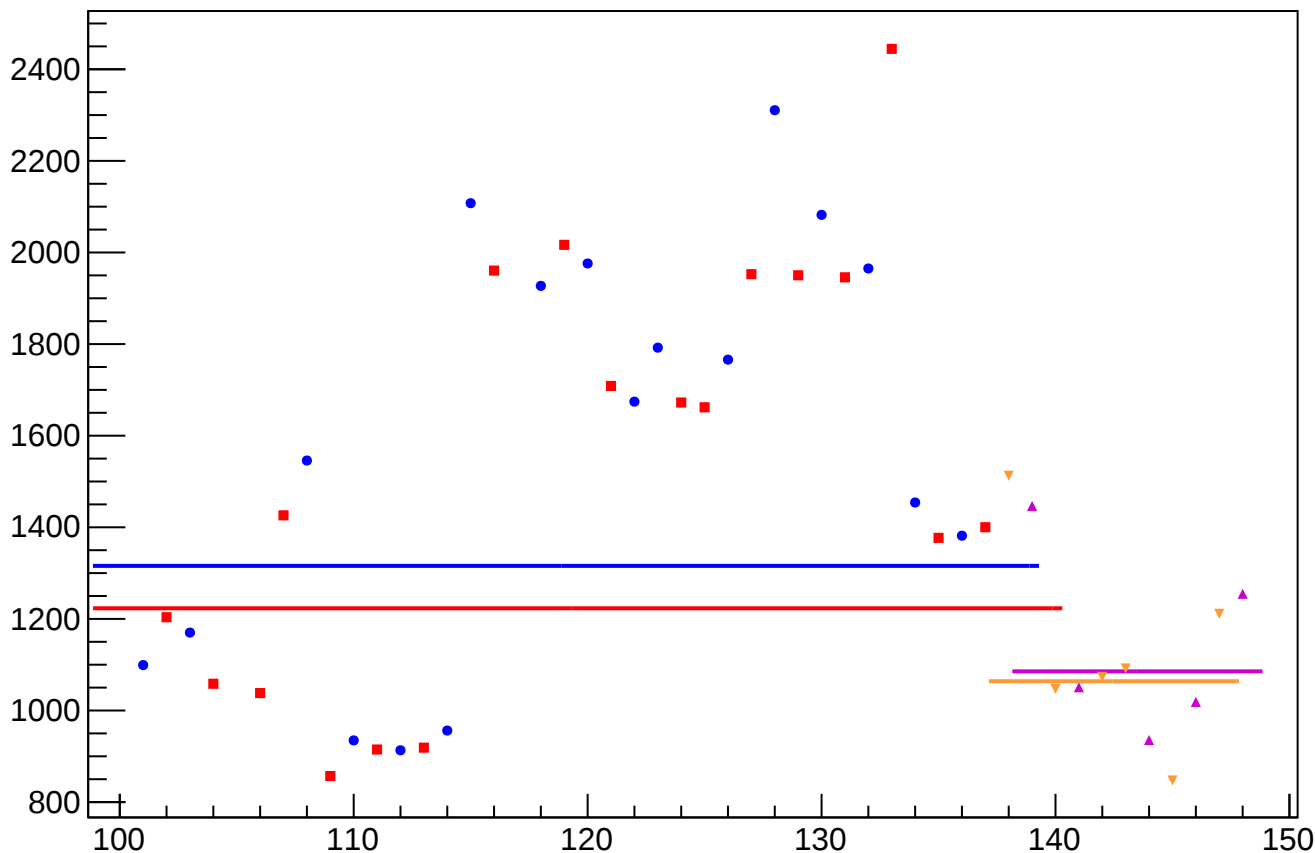
Left In:  $-1037.458 \pm 542.604$   $\chi^2/\text{NDF}: 2.6/4$

+ sign  $-904.515 \pm 373.284$   $\chi^2/\text{NDF}: 41.4/22$

All:  $-905.527 \pm 259.970$   $\chi^2/\text{NDF}: 51.0/45$

- sign  $-906.480 \pm 362.269$   $\chi^2/\text{NDF}: 9.6/22$

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In: 1315.784 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 1118346.6/16

Left Out: 1063.914 $\pm$ 0.370  $\chi^2/\text{NDF}$ : 252547.1/5

Right Out: 1223.179 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 1363055.0/17

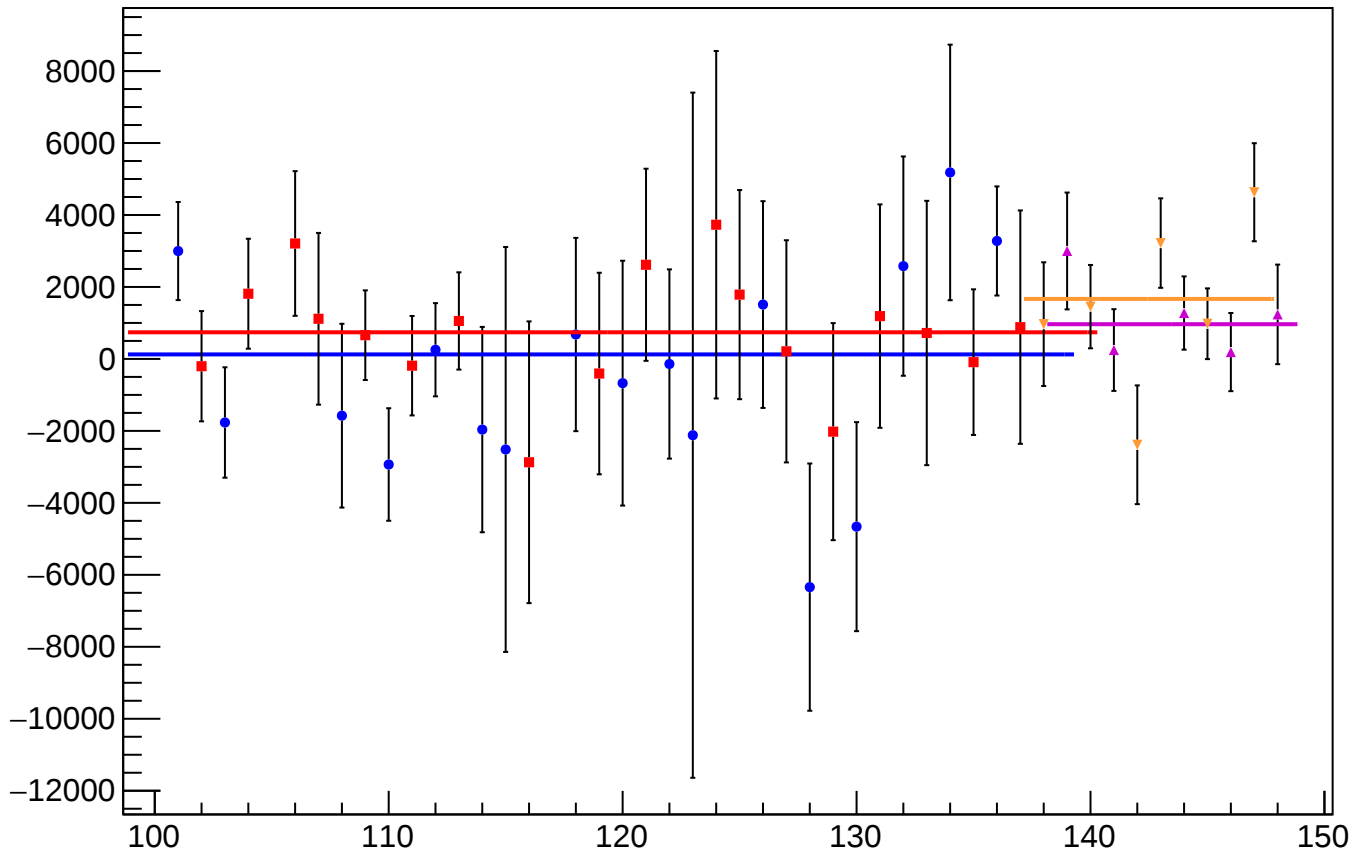
Left In: 1085.471 $\pm$ 0.384  $\chi^2/\text{NDF}$ : 180125.5/4

+ sign 1187.376 $\pm$ 0.264  $\chi^2/\text{NDF}$ : 1598444.3/22

All: 1174.202 $\pm$ 0.184  $\chi^2/\text{NDF}$ : 3217859.4/45

- sign 1161.794 $\pm$ 0.256  $\chi^2/\text{NDF}$ : 1614578.0/22

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1667.319 $\pm$ 521.844  $\chi^2$ /NDF: 13.0/5

Right Out: 739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

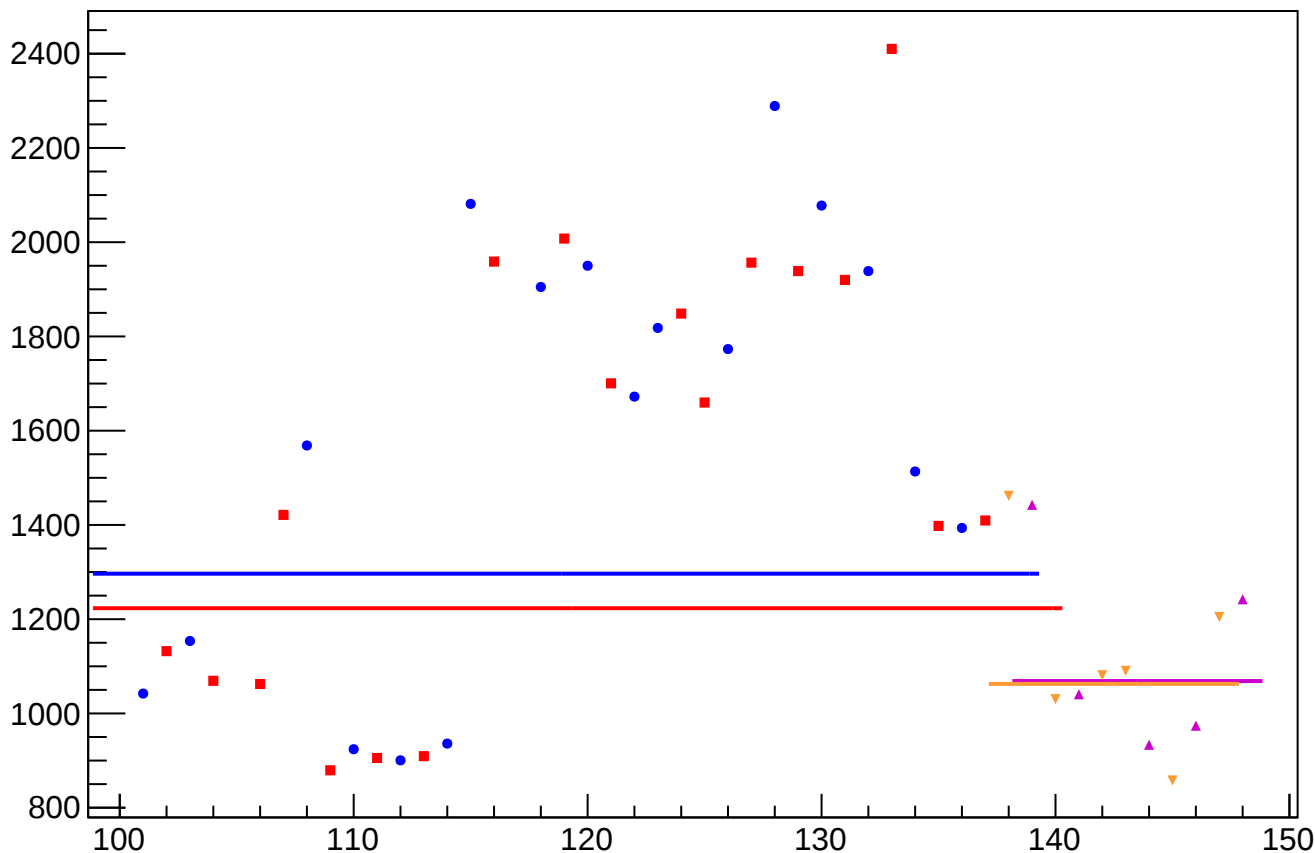
Left In: 964.884 $\pm$ 535.228  $\chi^2$ /NDF: 2.6/4

+ sign 903.636 $\pm$ 370.740  $\chi^2$ /NDF: 42.0/22

All: 871.814 $\pm$ 258.320  $\chi^2$ /NDF: 50.7/45

- sign 841.787 $\pm$ 360.129  $\chi^2$ /NDF: 8.7/22

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1296.573+/-0.373  $\chi^2/\text{NDF}$ : 1175465.2/16

Left Out: 1062.706+/-0.369  $\chi^2/\text{NDF}$ : 219353.1/5

Right Out: 1223.274+/-0.344  $\chi^2/\text{NDF}$ : 1346689.2/17

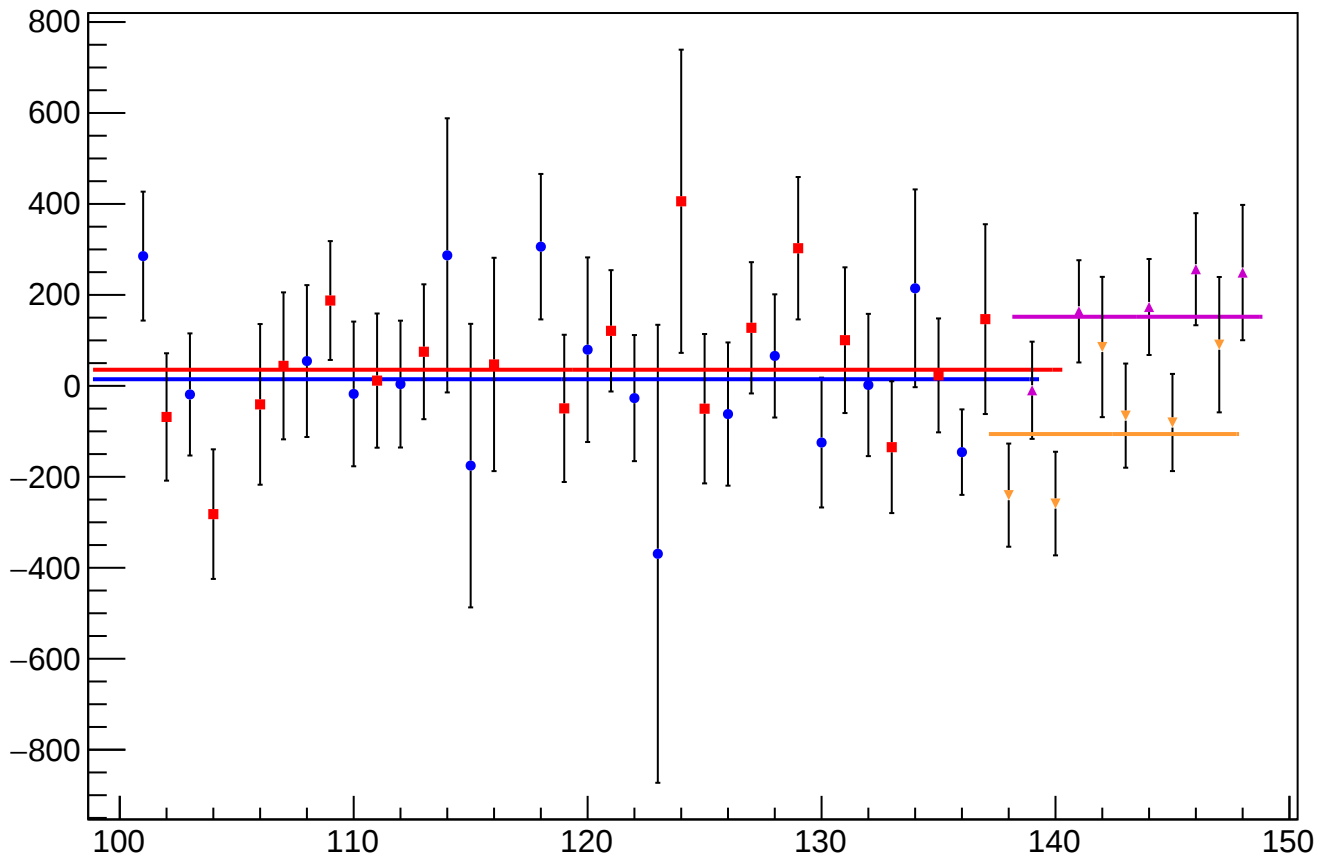
Left In: 1068.740+/-0.378  $\chi^2/\text{NDF}$ : 189296.9/4

+ sign 1178.534+/-0.262  $\chi^2/\text{NDF}$ : 1593762.9/22

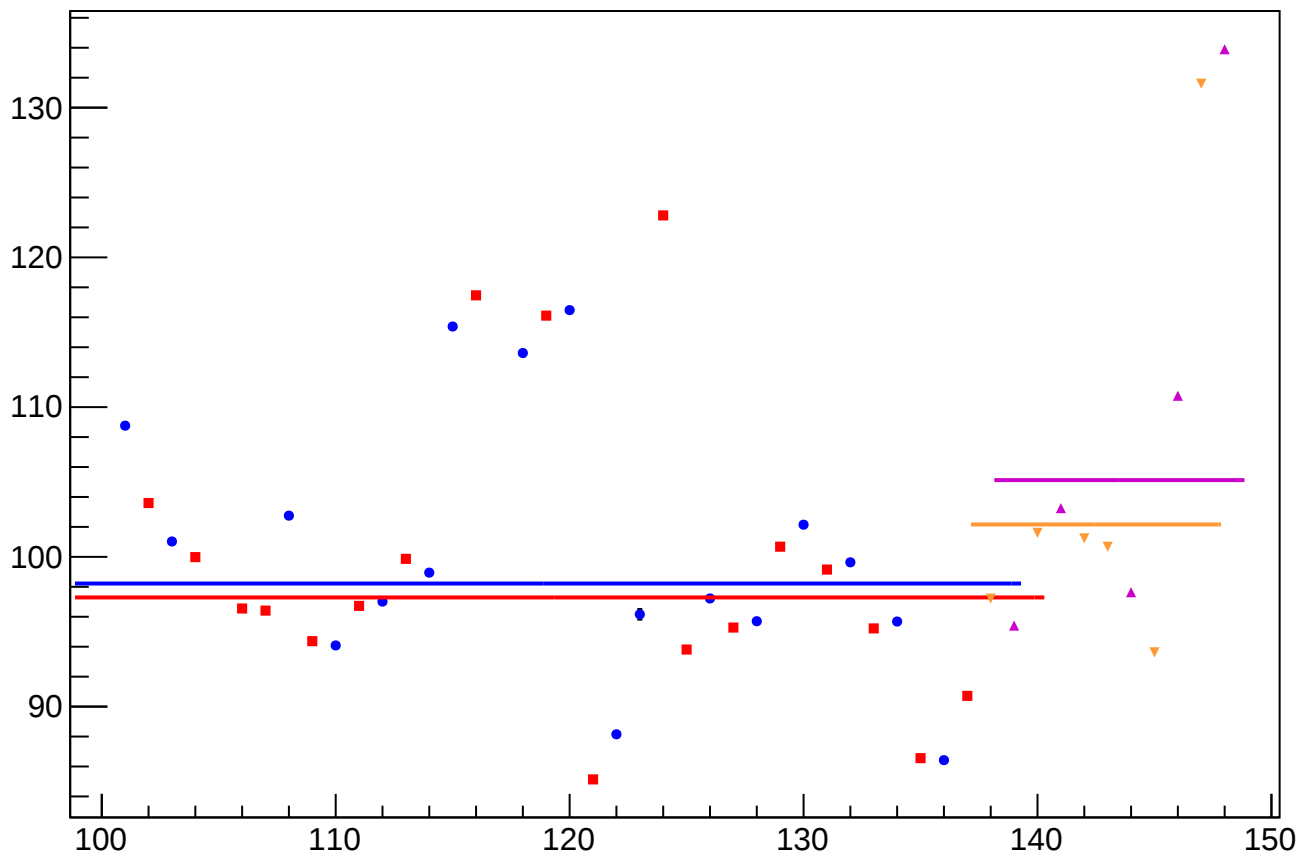
All: 1165.557+/-0.183  $\chi^2/\text{NDF}$ : 3225755.4/45

- sign 1153.312+/-0.255  $\chi^2/\text{NDF}$ : 1627229.8/22

# dit\_asym\_sam\_15\_dd\_mean vs Slug



# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In:  $98.219 \pm 0.027$   $\chi^2/\text{NDF}$ : 100510.4/16

Left Out:  $102.164 \pm 0.035$   $\chi^2/\text{NDF}$ : 95287.9/5

Right Out:  $97.290 \pm 0.026$   $\chi^2/\text{NDF}$ : 96216.6/17

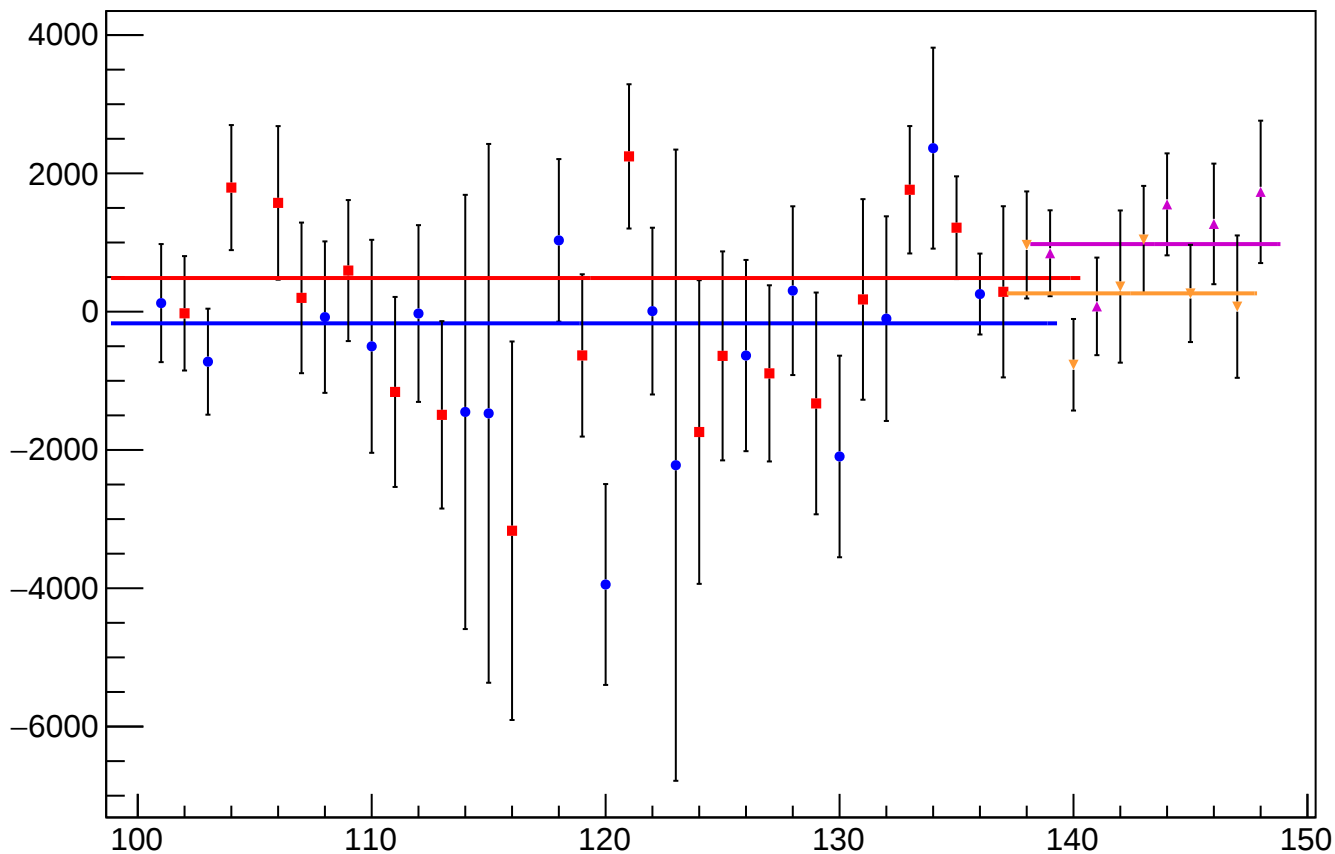
Left In:  $105.126 \pm 0.037$   $\chi^2/\text{NDF}$ : 106141.6/4

+ sign  $99.677 \pm 0.021$   $\chi^2/\text{NDF}$ : 203759.5/22

All:  $99.783 \pm 0.015$   $\chi^2/\text{NDF}$ : 436338.5/45

- sign  $99.887 \pm 0.021$   $\chi^2/\text{NDF}$ : 232530.4/22

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In:  $-168.802 \pm 282.178$   $\chi^2/\text{NDF}$ : 14.6/16

Left Out:  $264.687 \pm 326.142$   $\chi^2/\text{NDF}$ : 4.3/5

Right Out:  $486.312 \pm 268.010$   $\chi^2/\text{NDF}$ : 19.6/17

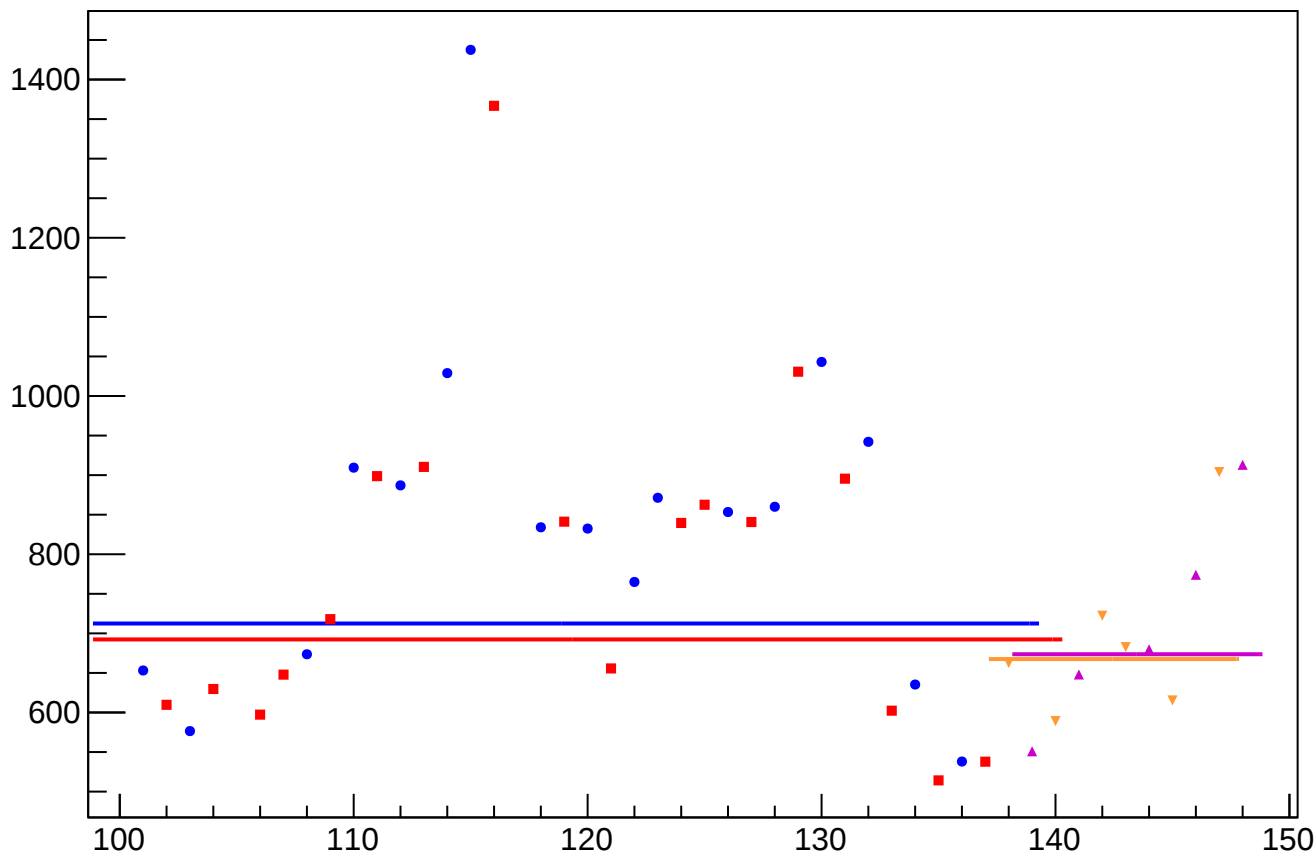
Left In:  $977.167 \pm 339.060$   $\chi^2/\text{NDF}$ : 2.9/4

+ sign  $16.777 \pm 213.394$   $\chi^2/\text{NDF}$ : 19.9/22

All:  $350.797 \pm 149.771$   $\chi^2/\text{NDF}$ : 48.5/45

- sign  $675.067 \pm 210.256$   $\chi^2/\text{NDF}$ : 23.8/22

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 712.476 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 660520.6/16

Left Out: 667.547 $\pm$ 0.231  $\chi^2/\text{NDF}$ : 150278.0/5

Right Out: 692.342 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 656953.1/17

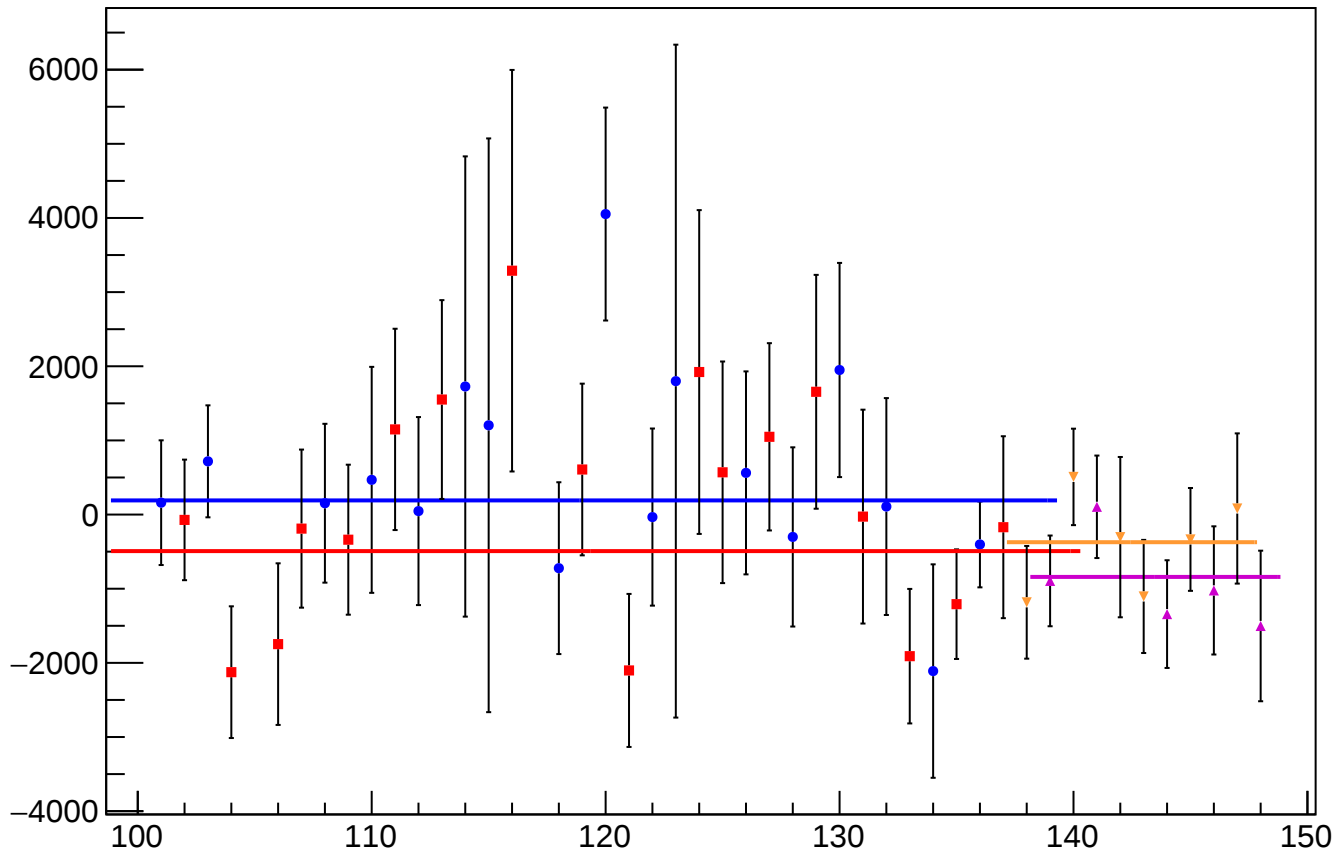
Left In: 673.631 $\pm$ 0.240  $\chi^2/\text{NDF}$ : 215459.0/4

+ sign 693.241 $\pm$ 0.151  $\chi^2/\text{NDF}$ : 832505.1/22

All: 689.134 $\pm$ 0.106  $\chi^2/\text{NDF}$ : 1710126.1/45

- sign 685.147 $\pm$ 0.149  $\chi^2/\text{NDF}$ : 876160.7/22

# asym\_sam\_15\_dd\_mean vs Slug



Right In:  $190.880 \pm 278.670$   $\chi^2/\text{NDF}$ : 14.2/16

Left Out:  $-372.653 \pm 320.703$   $\chi^2/\text{NDF}$ : 4.1/5

Right Out:  $-492.784 \pm 264.629$   $\chi^2/\text{NDF}$ : 22.8/17

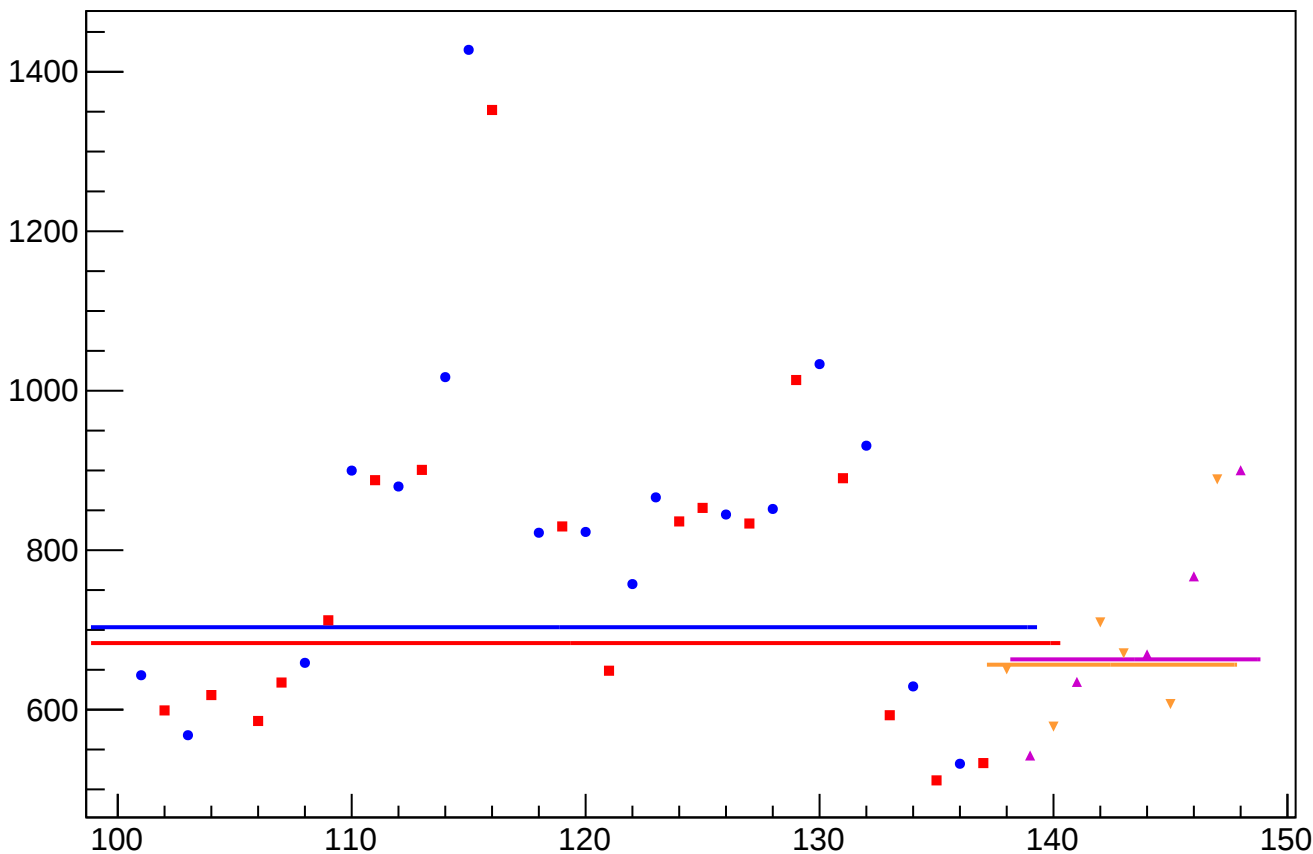
Left In:  $-840.817 \pm 333.894$   $\chi^2/\text{NDF}$ : 2.8/4

+ sign  $-51.560 \pm 210.352$   $\chi^2/\text{NDF}$ : 20.1/22

All:  $-343.386 \pm 147.683$   $\chi^2/\text{NDF}$ : 50.1/45

- sign  $-627.057 \pm 207.392$   $\chi^2/\text{NDF}$ : 26.3/22

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 703.406+/-0.197  $\chi^2/\text{NDF}$ : 666885.8/16

Left Out: 656.396+/-0.227  $\chi^2/\text{NDF}$ : 149580.1/5

Right Out: 683.493+/-0.187  $\chi^2/\text{NDF}$ : 659356.0/17

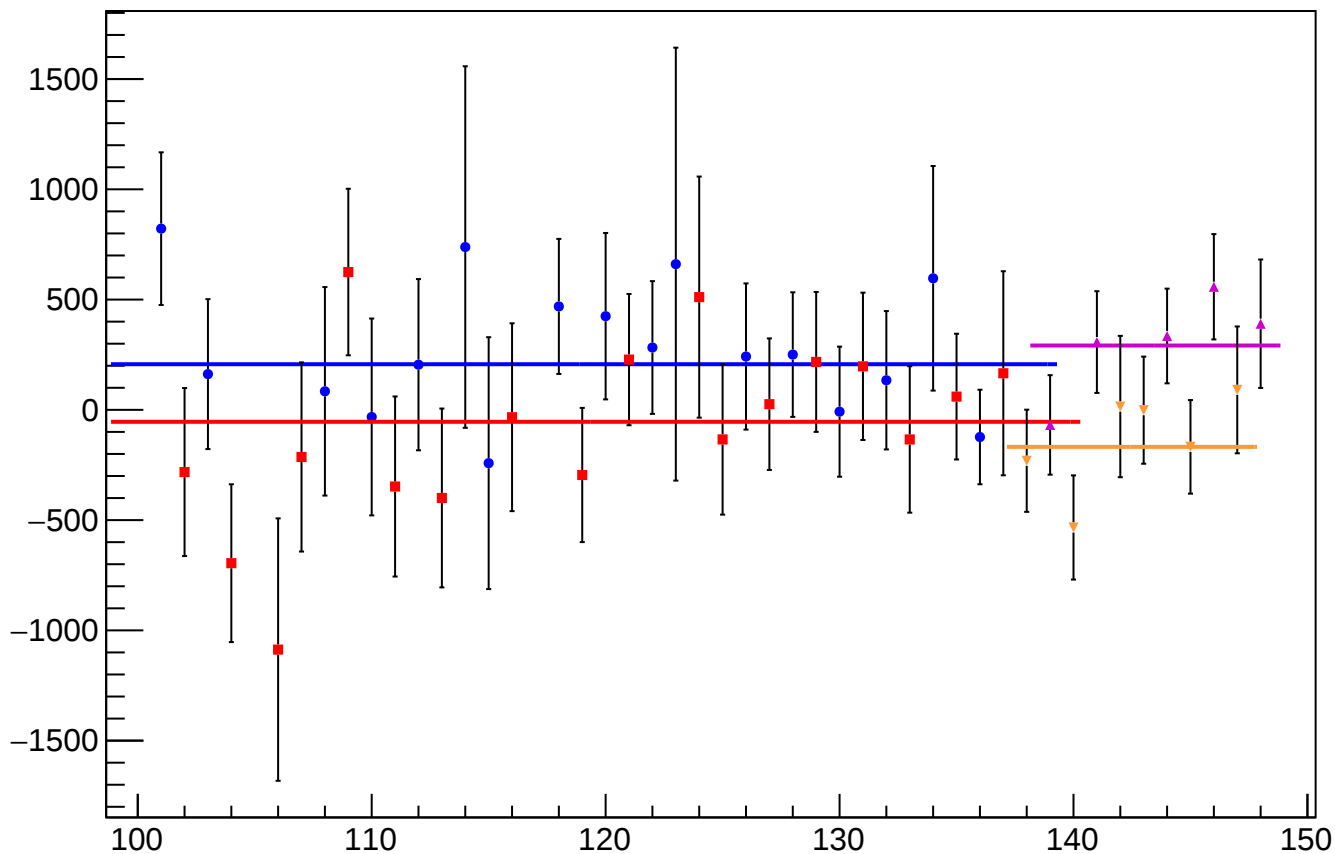
Left In: 663.082+/-0.236  $\chi^2/\text{NDF}$ : 219374.0/4

+ sign 683.182+/-0.149  $\chi^2/\text{NDF}$ : 840952.2/22

All: 679.346+/-0.104  $\chi^2/\text{NDF}$ : 1725583.5/45

- sign 675.618+/-0.147  $\chi^2/\text{NDF}$ : 883320.2/22

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In:  $206.874 \pm 85.632$   $\chi^2/\text{NDF}$ : 9.5/16

Left Out:  $-167.874 \pm 101.239$   $\chi^2/\text{NDF}$ : 4.1/5

Right Out:  $-54.185 \pm 85.192$   $\chi^2/\text{NDF}$ : 15.7/17

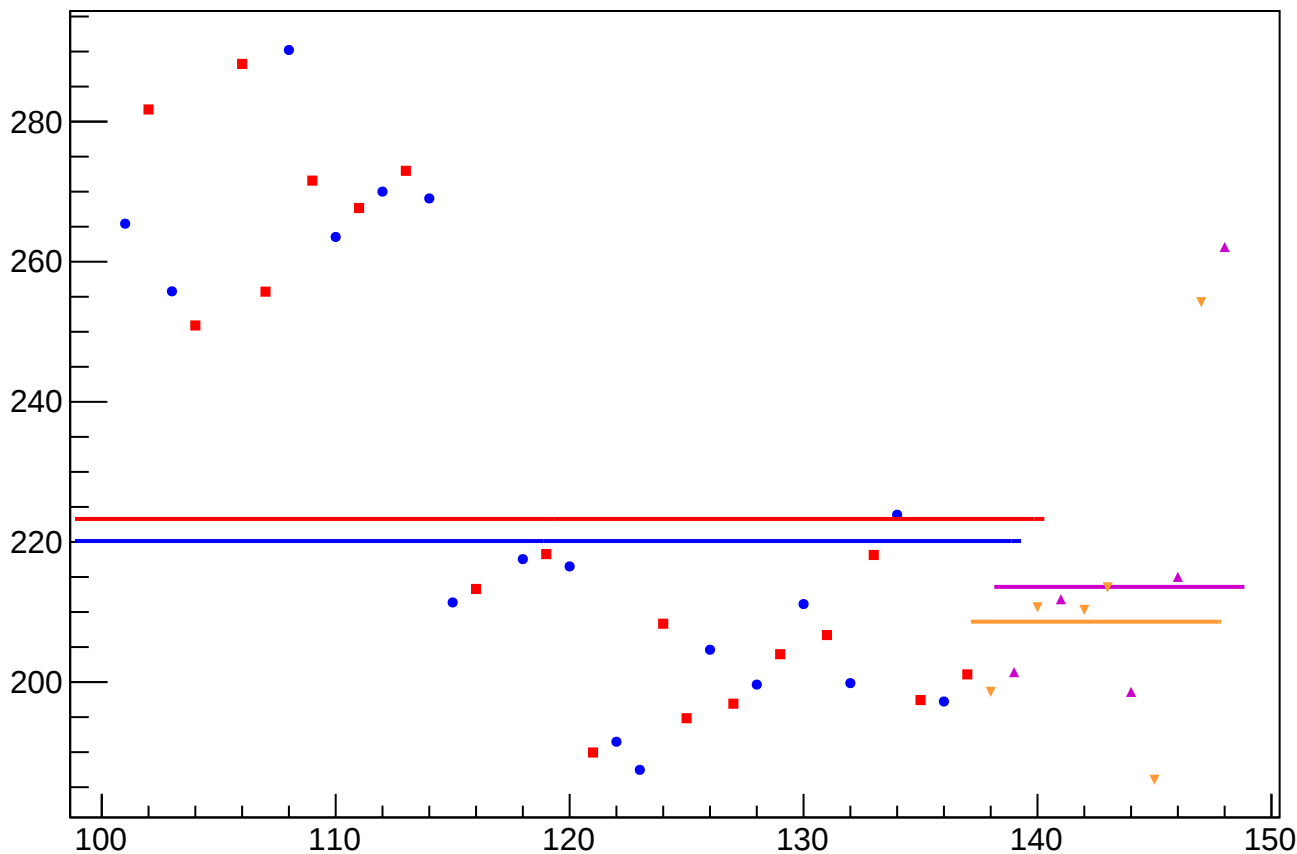
Left In:  $291.699 \pm 105.712$   $\chi^2/\text{NDF}$ : 4.0/4

+ sign  $50.583 \pm 65.380$   $\chi^2/\text{NDF}$ : 21.5/22

All:  $66.065 \pm 46.564$   $\chi^2/\text{NDF}$ : 47.8/45

- sign  $82.003 \pm 66.333$   $\chi^2/\text{NDF}$ : 26.1/22

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 220.133 $\pm$ 0.061  $\chi^2$ /NDF: 228444.0/16

Left Out: 208.623 $\pm$ 0.072  $\chi^2$ /NDF: 77668.0/5

Right Out: 223.287 $\pm$ 0.060  $\chi^2$ /NDF: 272255.2/17

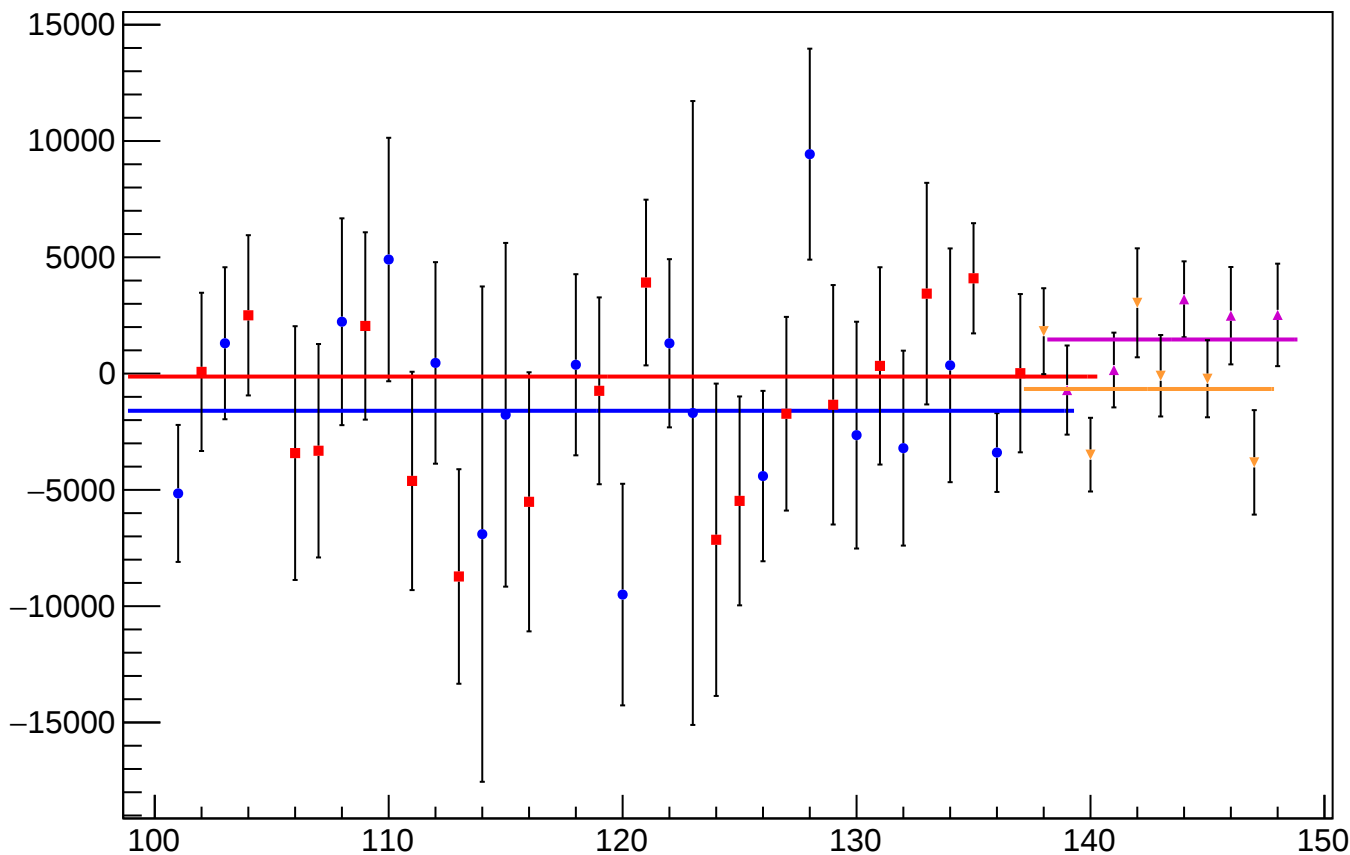
Left In: 213.589 $\pm$ 0.075  $\chi^2$ /NDF: 71274.9/4

+ sign 215.332 $\pm$ 0.046  $\chi^2$ /NDF: 321181.3/22

All: 217.371 $\pm$ 0.033  $\chi^2$ /NDF: 678861.7/45

- sign 219.469 $\pm$ 0.047  $\chi^2$ /NDF: 353735.8/22

# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In: -1599.045 $\pm$ 921.042  $\chi^2/\text{NDF}$ : 16.6/16

Left Out: -661.632 $\pm$ 753.376  $\chi^2/\text{NDF}$ : 9.6/5

Right Out: -127.760 $\pm$ 949.094  $\chi^2/\text{NDF}$ : 14.8/17

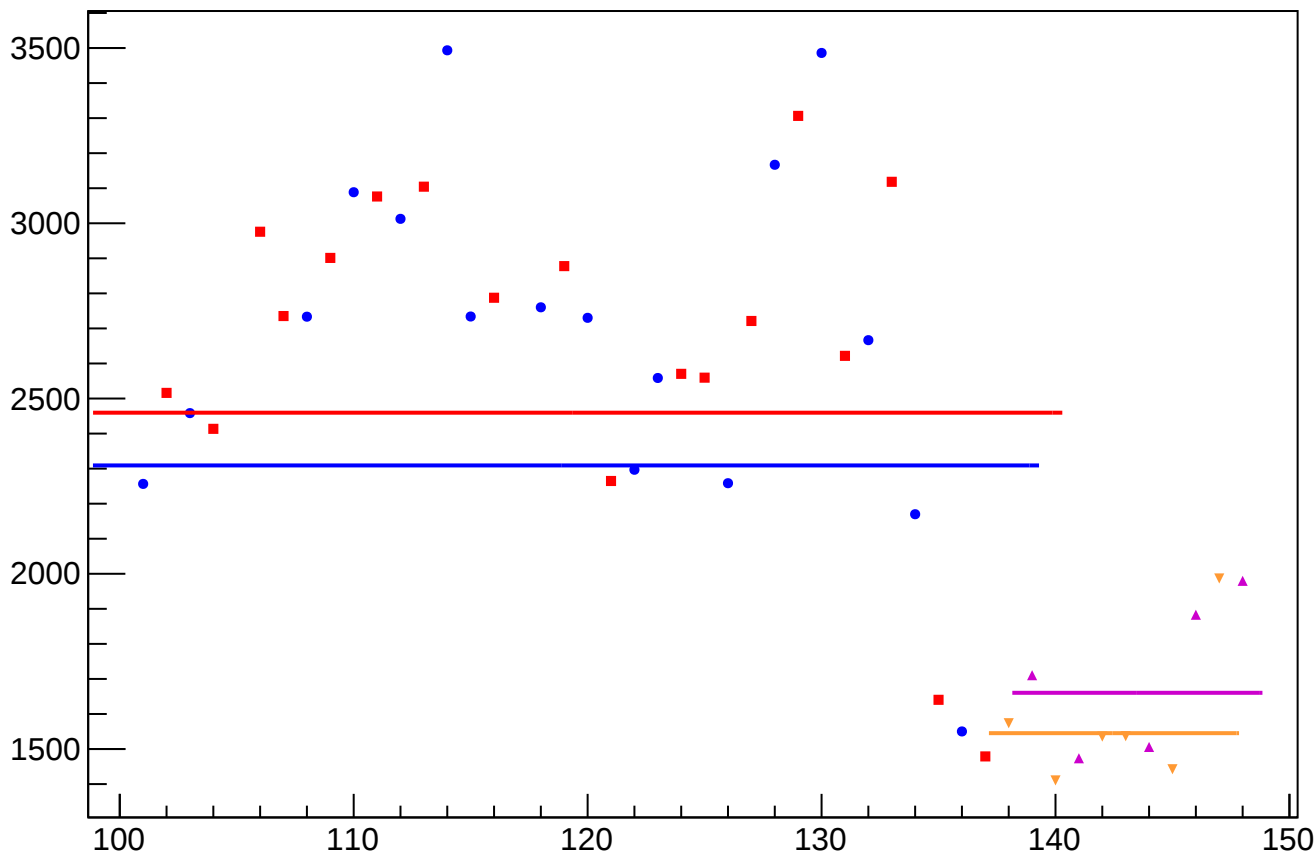
Left In: 1466.366 $\pm$ 825.017  $\chi^2/\text{NDF}$ : 3.5/4

+ sign -1037.403 $\pm$ 583.144  $\chi^2/\text{NDF}$ : 26.9/22

All: -188.071 $\pm$ 425.628  $\chi^2/\text{NDF}$ : 51.4/45

- sign 780.250 $\pm$ 622.654  $\chi^2/\text{NDF}$ : 20.0/22

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2309.132 $\pm$ 0.651  $\chi^2/\text{NDF}$ : 800728.2/16

Left Out: 1545.287 $\pm$ 0.533  $\chi^2/\text{NDF}$ : 99966.5/5

Right Out: 2459.603 $\pm$ 0.671  $\chi^2/\text{NDF}$ : 668179.2/17

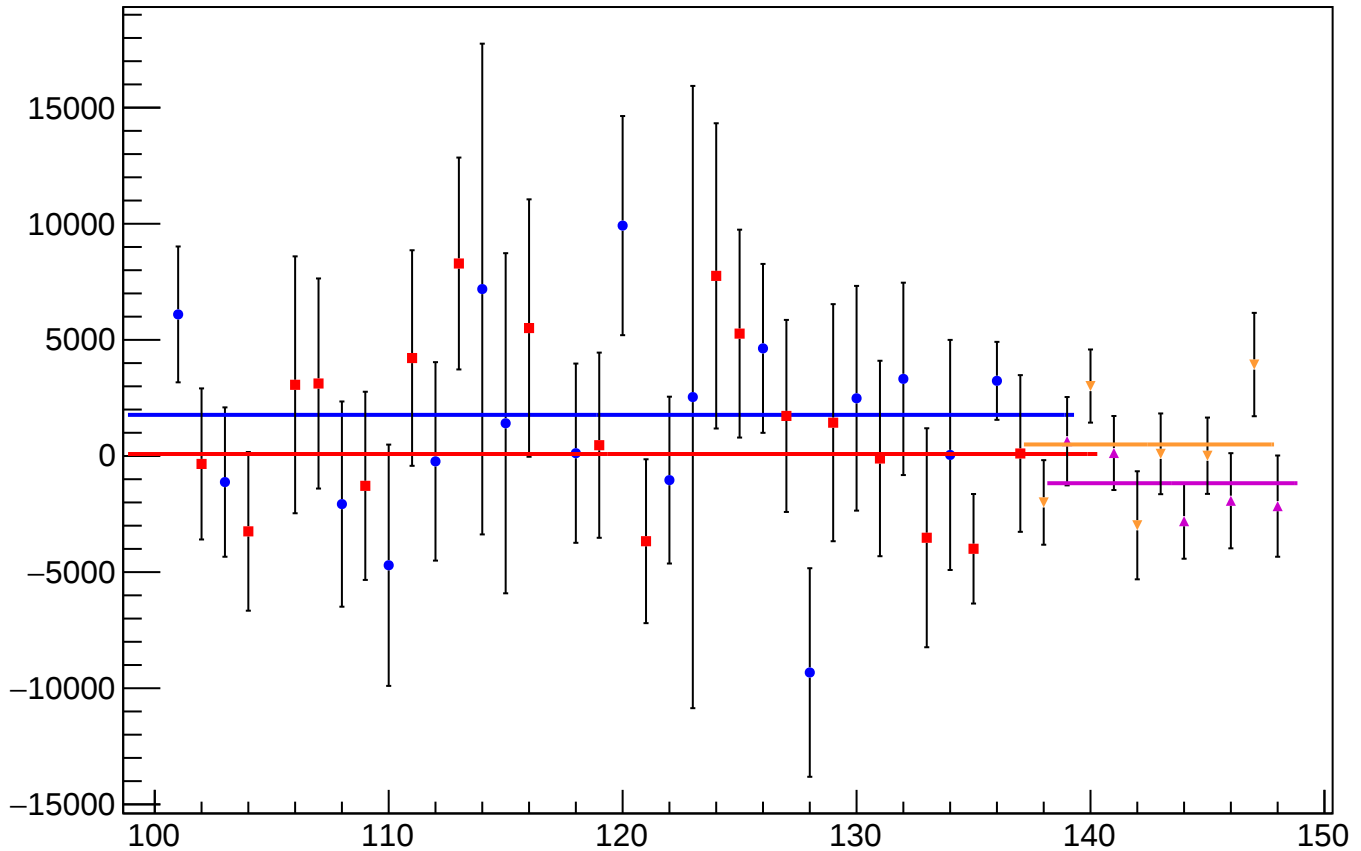
Left In: 1660.438 $\pm$ 0.583  $\chi^2/\text{NDF}$ : 110988.4/4

+ sign 1851.482 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 1724851.0/22

All: 1922.936 $\pm$ 0.301  $\chi^2/\text{NDF}$ : 3375987.1/45

- sign 2004.401 $\pm$ 0.440  $\chi^2/\text{NDF}$ : 1586871.7/22

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1771.279+/-912.328  $\chi^2/\text{NDF}$ : 17.3/16

Left Out: 497.111+/-746.814  $\chi^2/\text{NDF}$ : 9.2/5

Right Out: 86.080+/-939.852  $\chi^2/\text{NDF}$ : 14.5/17

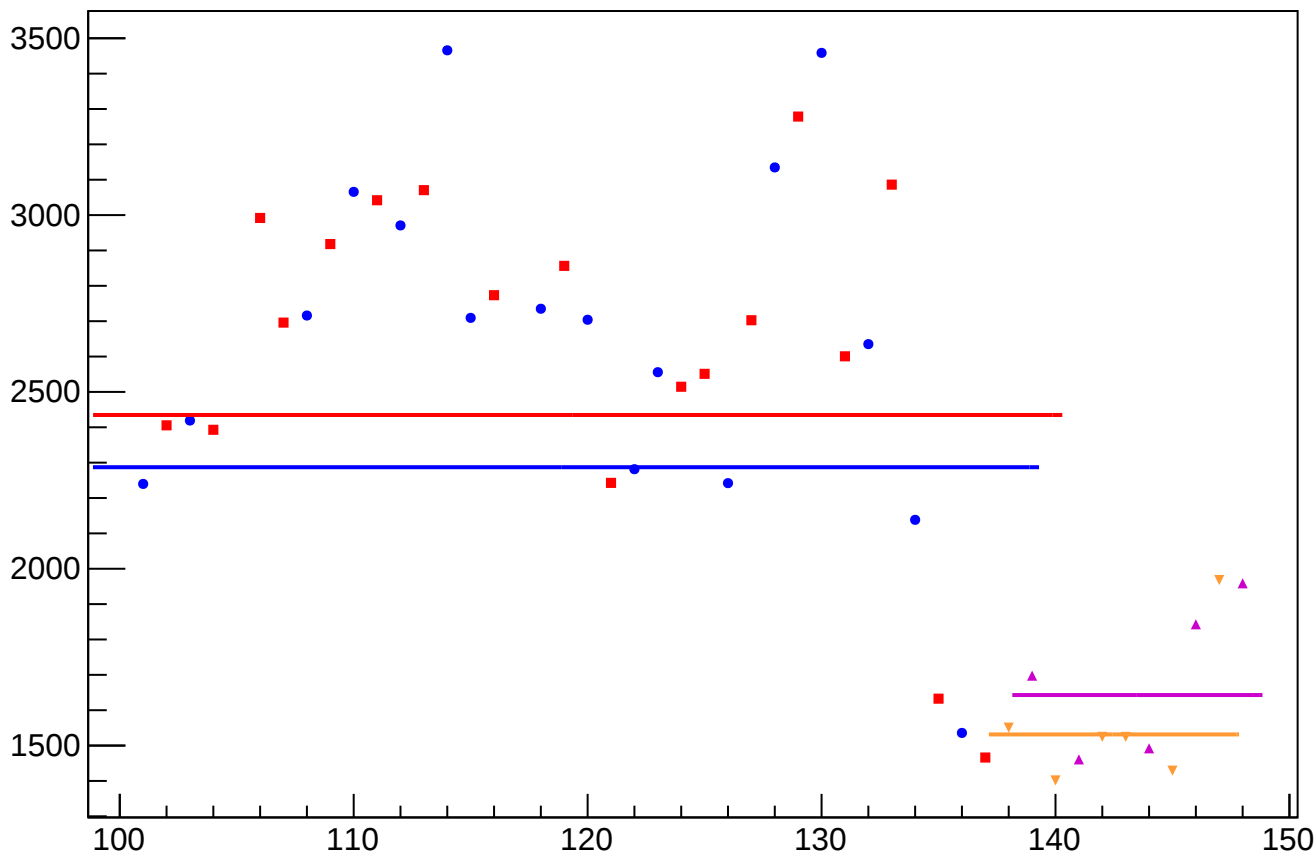
Left In: -1171.746+/-816.151  $\chi^2/\text{NDF}$ : 2.9/4

+ sign 1008.338+/-577.889  $\chi^2/\text{NDF}$ : 27.7/22

All: 241.253+/-421.533  $\chi^2/\text{NDF}$ : 49.9/45

- sign -631.003+/-616.233  $\chi^2/\text{NDF}$ : 18.4/22

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2287.102+/-0.645     $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1531.535+/-0.528     $\chi^2/\text{NDF}$ : 98699.8/5

Right Out: 2434.786+/-0.665     $\chi^2/\text{NDF}$ : 666938.3/17

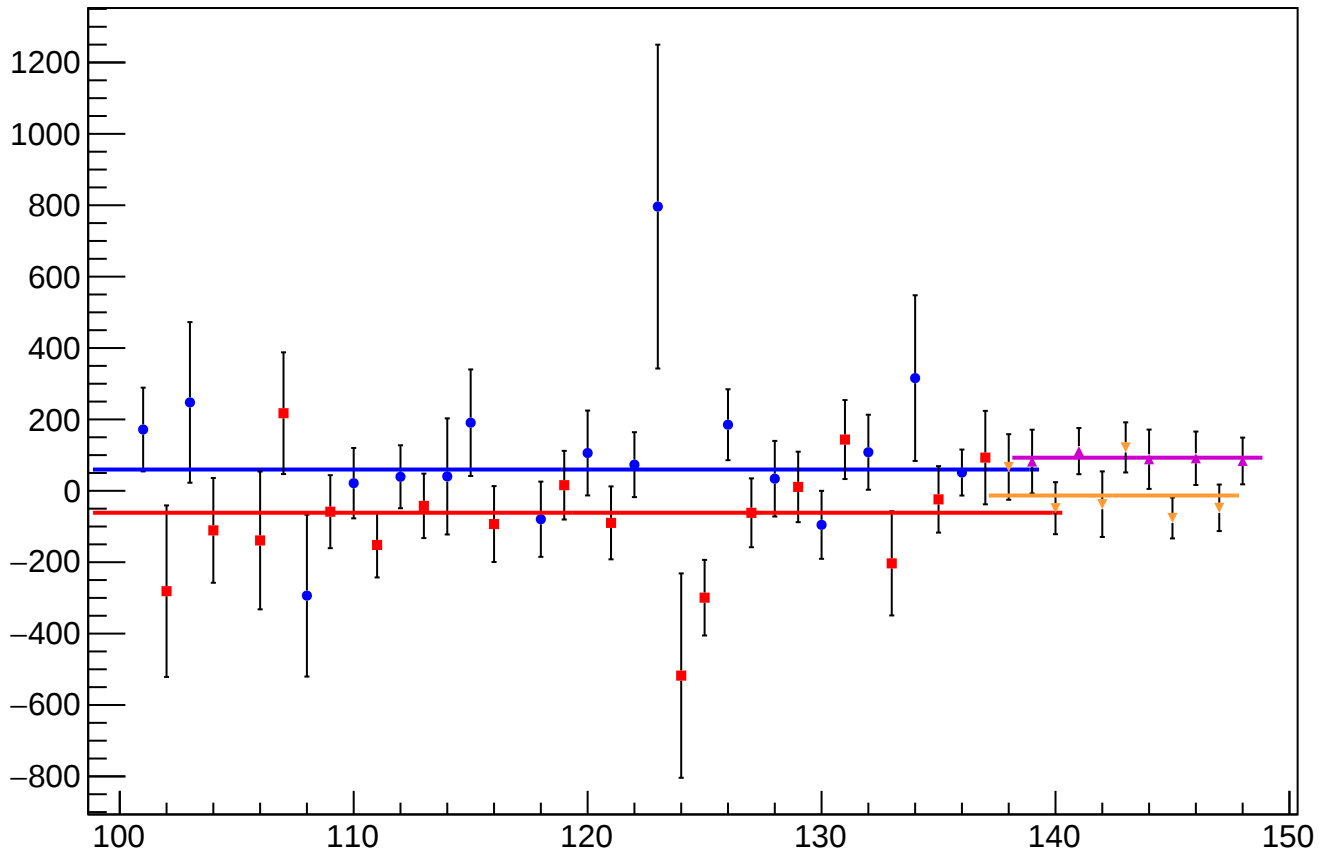
Left In: 1642.926+/-0.577     $\chi^2/\text{NDF}$ : 106164.9/4

+ sign 1834.687+/-0.409     $\chi^2/\text{NDF}$ : 1719468.1/22

All: 1904.249+/-0.298     $\chi^2/\text{NDF}$ : 3363890.5/45

- sign 1983.349+/-0.436     $\chi^2/\text{NDF}$ : 1582489.9/22

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In:  $59.656 \pm 27.080$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $-13.151 \pm 29.257$   $\chi^2/\text{NDF}$ : 6.2/5

Right Out:  $-61.399 \pm 27.011$   $\chi^2/\text{NDF}$ : 19.7/17

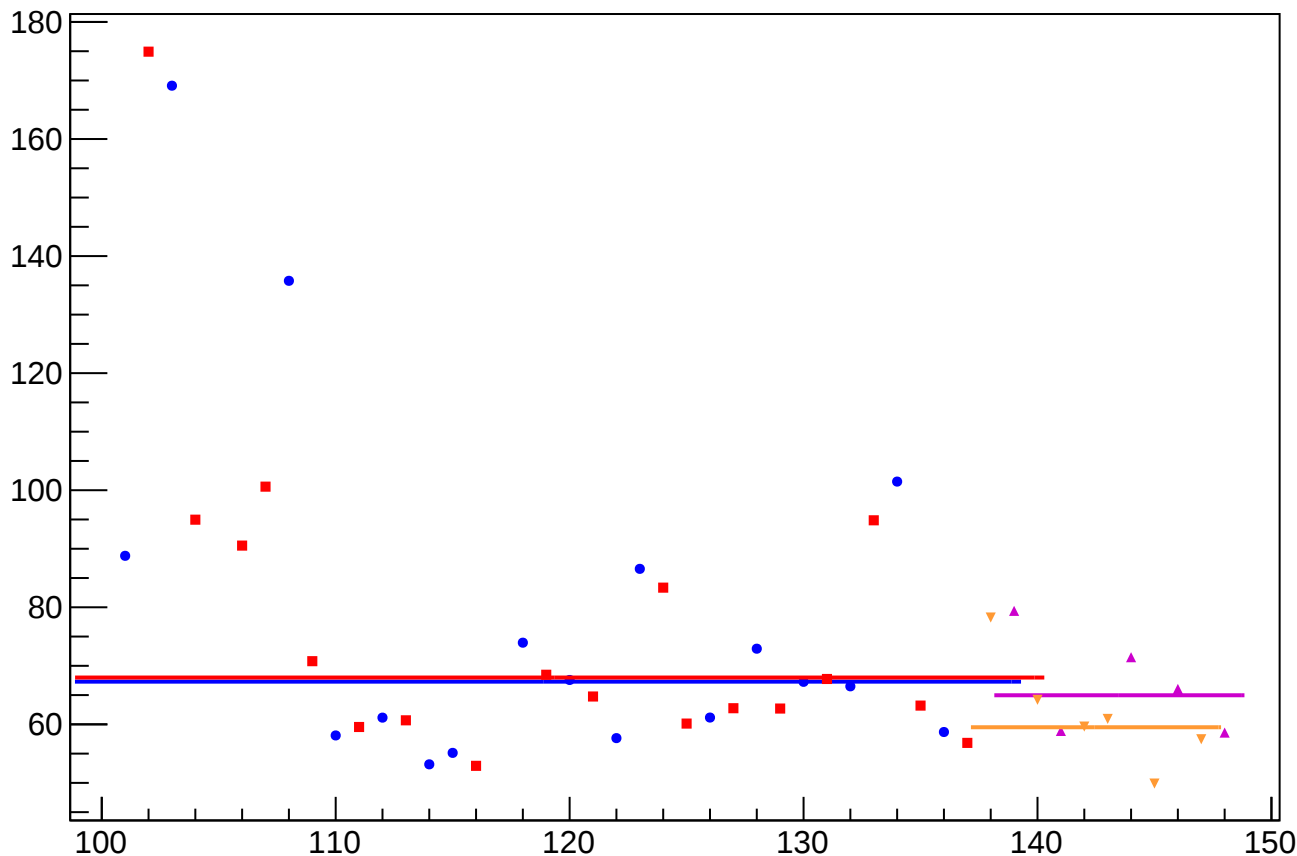
Left In:  $92.785 \pm 32.930$   $\chi^2/\text{NDF}$ : 0.1/4

+ sign  $26.063 \pm 19.874$   $\chi^2/\text{NDF}$ : 24.9/22

All:  $13.969 \pm 14.397$   $\chi^2/\text{NDF}$ : 58.6/45

- sign  $0.613 \pm 20.884$   $\chi^2/\text{NDF}$ : 32.9/22

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In:  $67.297 \pm 0.019$   $\chi^2/\text{NDF}$ : 841352.2/16

Left Out:  $59.504 \pm 0.021$   $\chi^2/\text{NDF}$ : 150757.6/5

Right Out:  $67.998 \pm 0.019$   $\chi^2/\text{NDF}$ : 754329.7/17

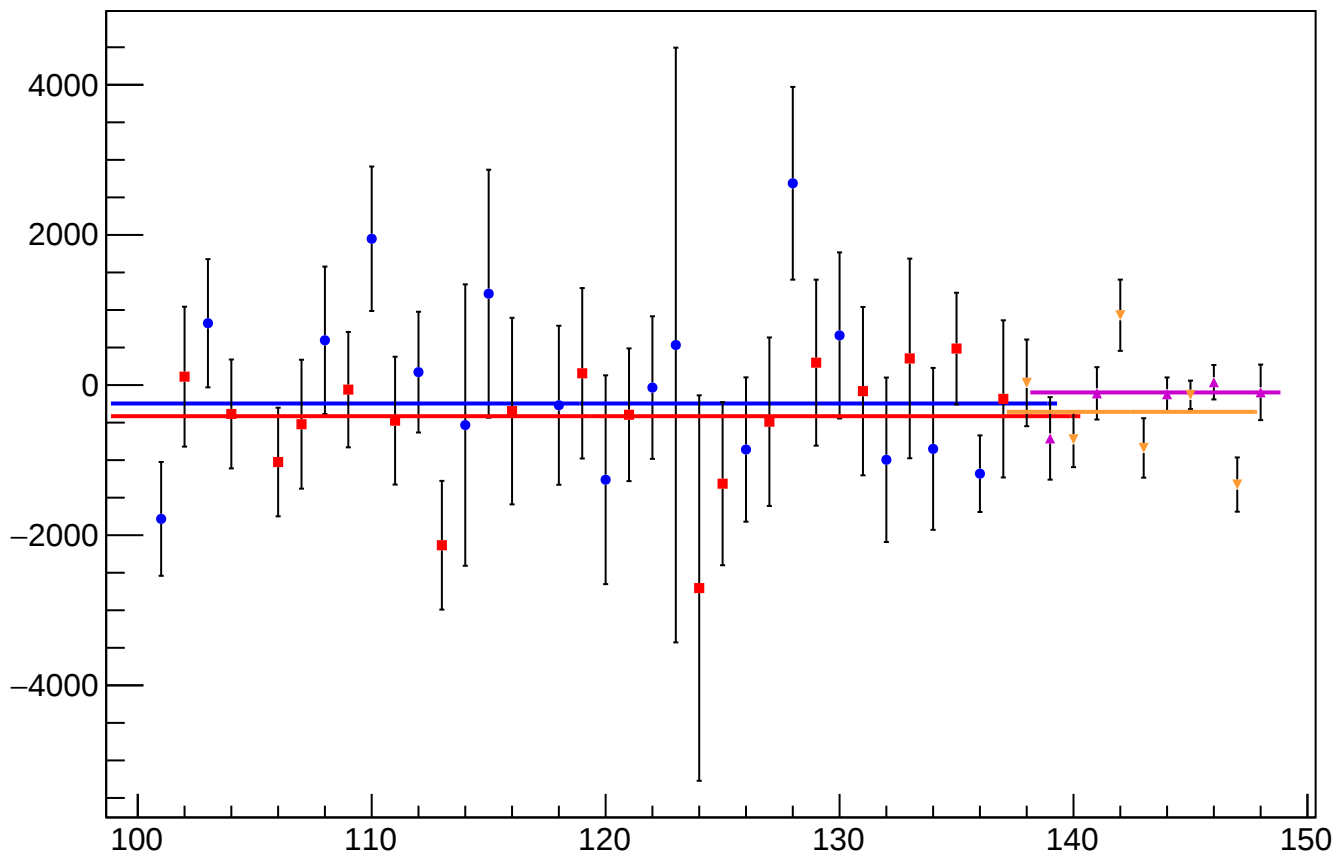
Left In:  $64.969 \pm 0.023$   $\chi^2/\text{NDF}$ : 101685.3/4

+ sign  $63.701 \pm 0.014$   $\chi^2/\text{NDF}$ : 1068535.1/22

All:  $65.164 \pm 0.010$   $\chi^2/\text{NDF}$ : 1957475.3/45

- sign  $66.780 \pm 0.015$   $\chi^2/\text{NDF}$ : 866130.9/22

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In: -245.631 $\pm$ 235.404  $\chi^2/\text{NDF}$ : 23.8/16

Left Out: -356.600 $\pm$ 133.012  $\chi^2/\text{NDF}$ : 18.8/5

Right Out: -414.725 $\pm$ 222.788  $\chi^2/\text{NDF}$ : 9.4/17

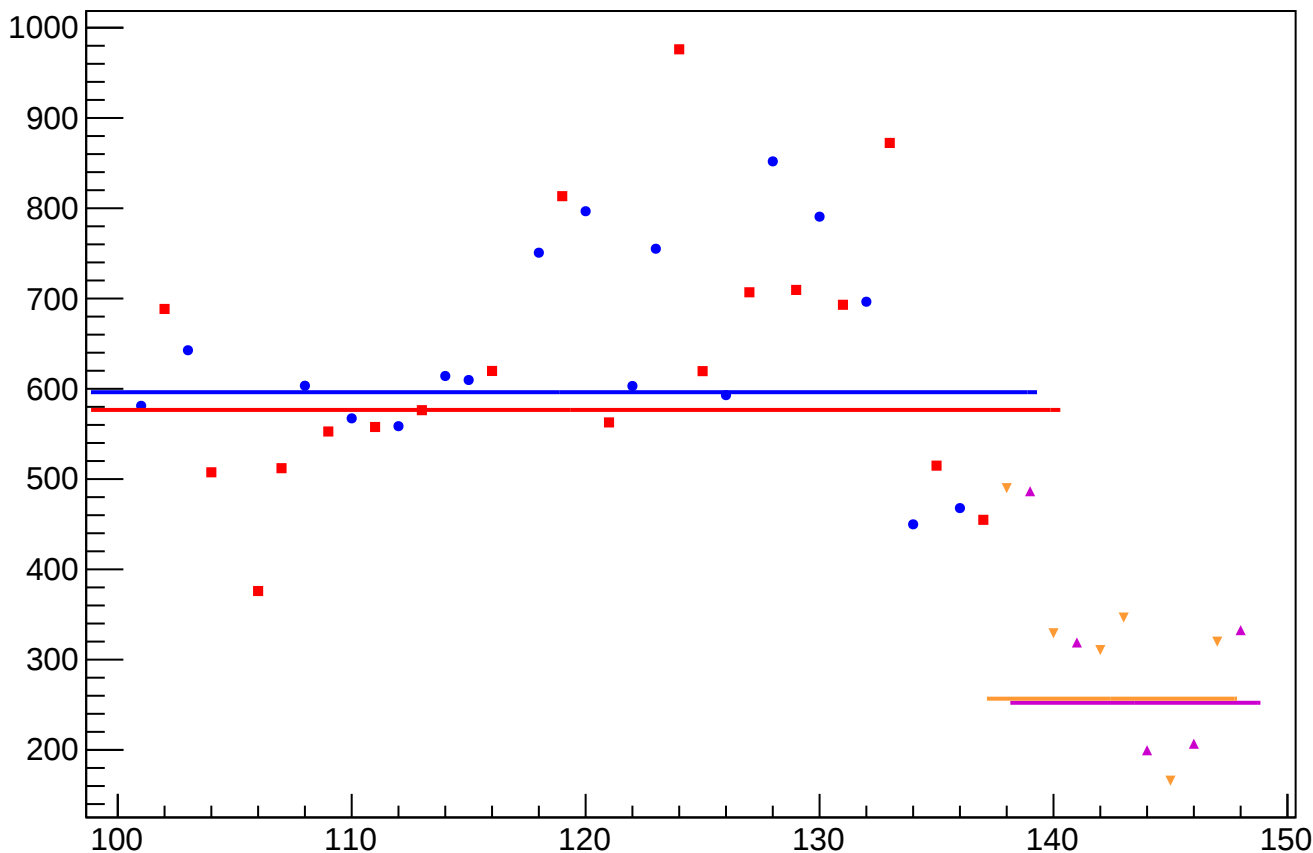
Left In: -98.258 $\pm$ 131.519  $\chi^2/\text{NDF}$ : 1.6/4

+ sign -329.745 $\pm$ 115.804  $\chi^2/\text{NDF}$ : 42.8/22

All: -253.229 $\pm$ 80.970  $\chi^2/\text{NDF}$ : 56.1/45

- sign -180.042 $\pm$ 113.257  $\chi^2/\text{NDF}$ : 12.5/22

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 596.246+/-0.166  $\chi^2/\text{NDF}$ : 422153.3/16

Left Out: 256.757+/-0.094  $\chi^2/\text{NDF}$ : 1050913.9/5

Right Out: 576.614+/-0.158  $\chi^2/\text{NDF}$ : 573658.2/17

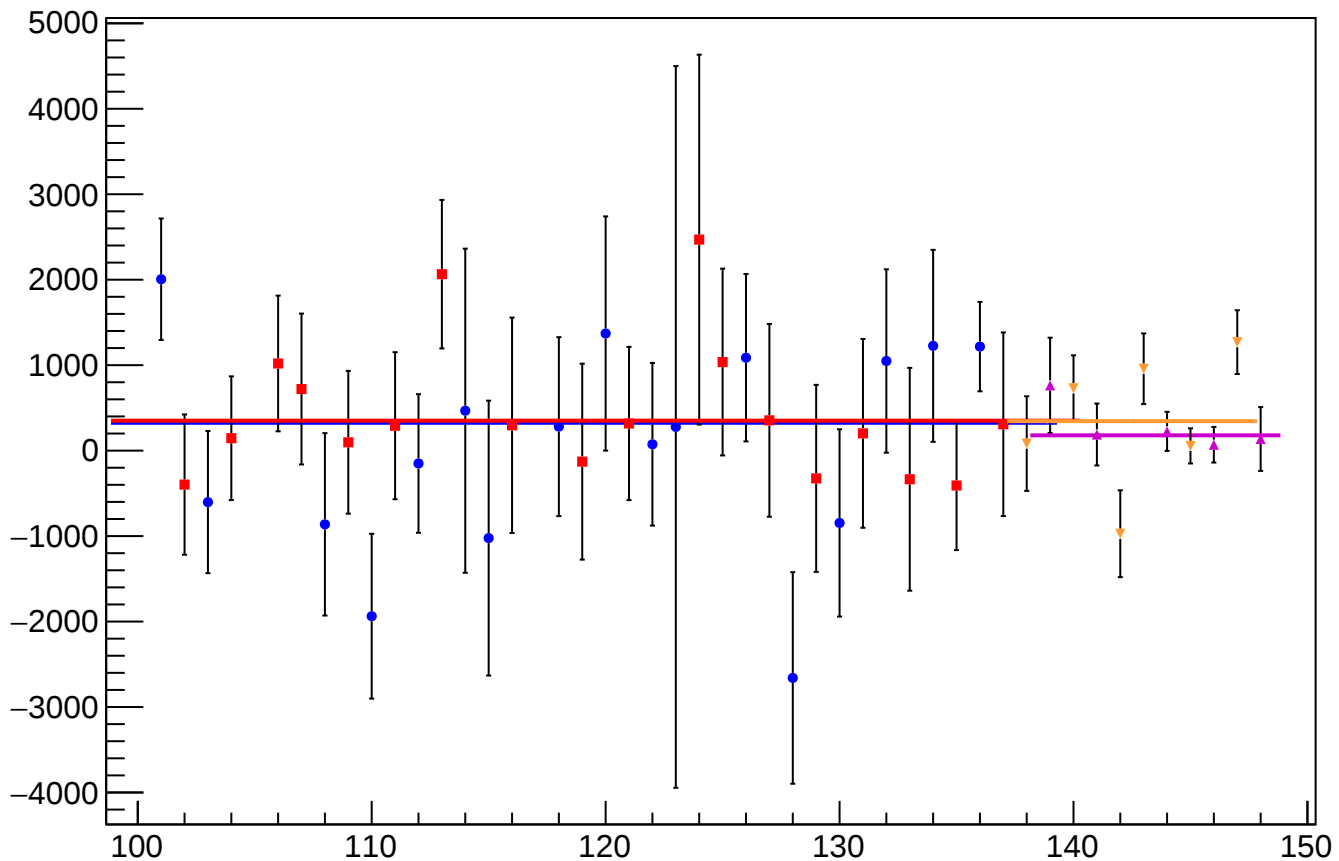
Left In: 252.226+/-0.093  $\chi^2/\text{NDF}$ : 720191.2/4

+ sign 338.914+/-0.082  $\chi^2/\text{NDF}$ : 4626046.7/22

All: 337.454+/-0.057  $\chi^2/\text{NDF}$ : 9064855.2/45

- sign 336.057+/-0.080  $\chi^2/\text{NDF}$ : 4438186.4/22

# asym\_sam\_37\_dd\_mean vs Slug



Right In: 326.077 $\pm$ 235.599  $\chi^2$ /NDF: 26.9/16

Left Out: 344.890 $\pm$ 140.682  $\chi^2$ /NDF:18.3/5

Right Out: 350.392 $\pm$ 225.254  $\chi^2$ /NDF: 9.0/17

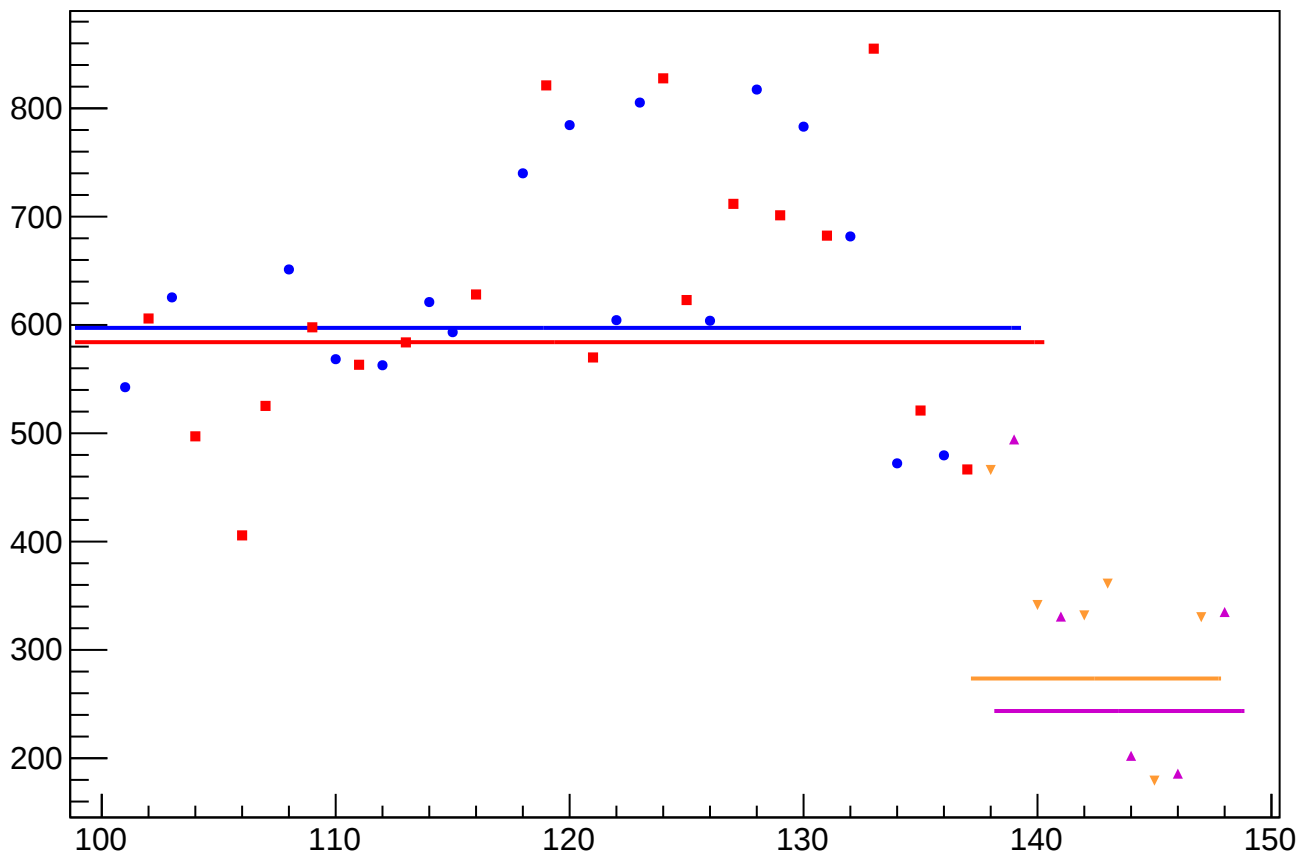
Left In: 178.869 $\pm$ 128.858  $\chi^2$ /NDF:1.4/4

+ sign 339.945 $\pm$ 120.787  $\chi^2$ /NDF: 45.1/22

All: 275.996 $\pm$ 82.068  $\chi^2$ /NDF: 56.5/45

- sign 221.160 $\pm$ 111.850  $\chi^2$ /NDF: 10.9/22

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 273.593 $\pm$ 0.099  $\chi^2$ /NDF:886201.7/5

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

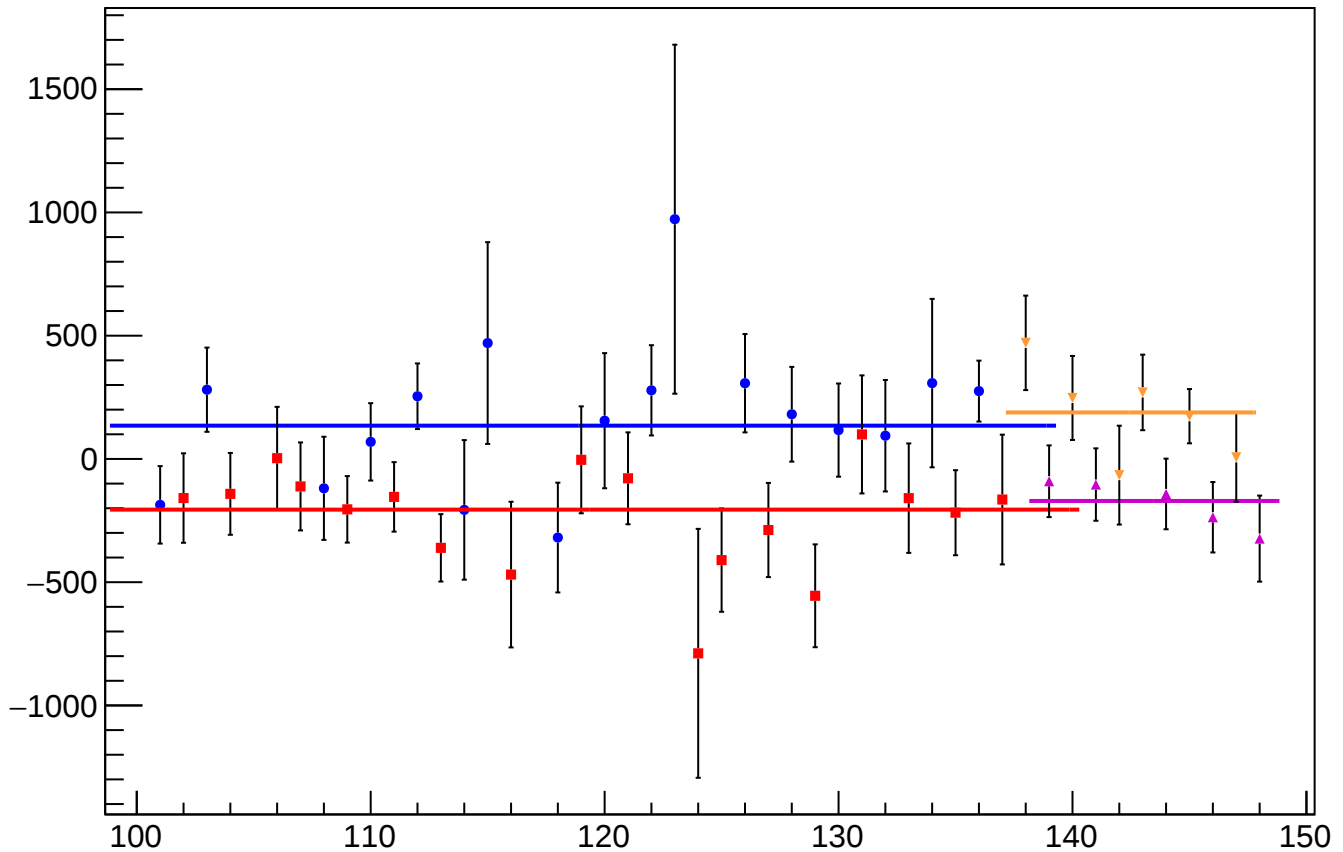
Left In: 243.598 $\pm$ 0.091  $\chi^2$ /NDF:859598.8/4

+ sign 358.676 $\pm$ 0.085  $\chi^2$ /NDF: 4033047.5/22

All: 341.922 $\pm$ 0.058  $\chi^2$ /NDF: 8854510.4/45

- sign 327.556 $\pm$ 0.079  $\chi^2$ /NDF: 4749990.0/22

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 135.029 $\pm$ 47.025  $\chi^2$ /NDF: 18.1/16

Left Out: 188.650 $\pm$ 64.234  $\chi^2$ /NDF: 5.2/5

Right Out: -205.590 $\pm$ 44.536  $\chi^2$ /NDF: 12.0/17

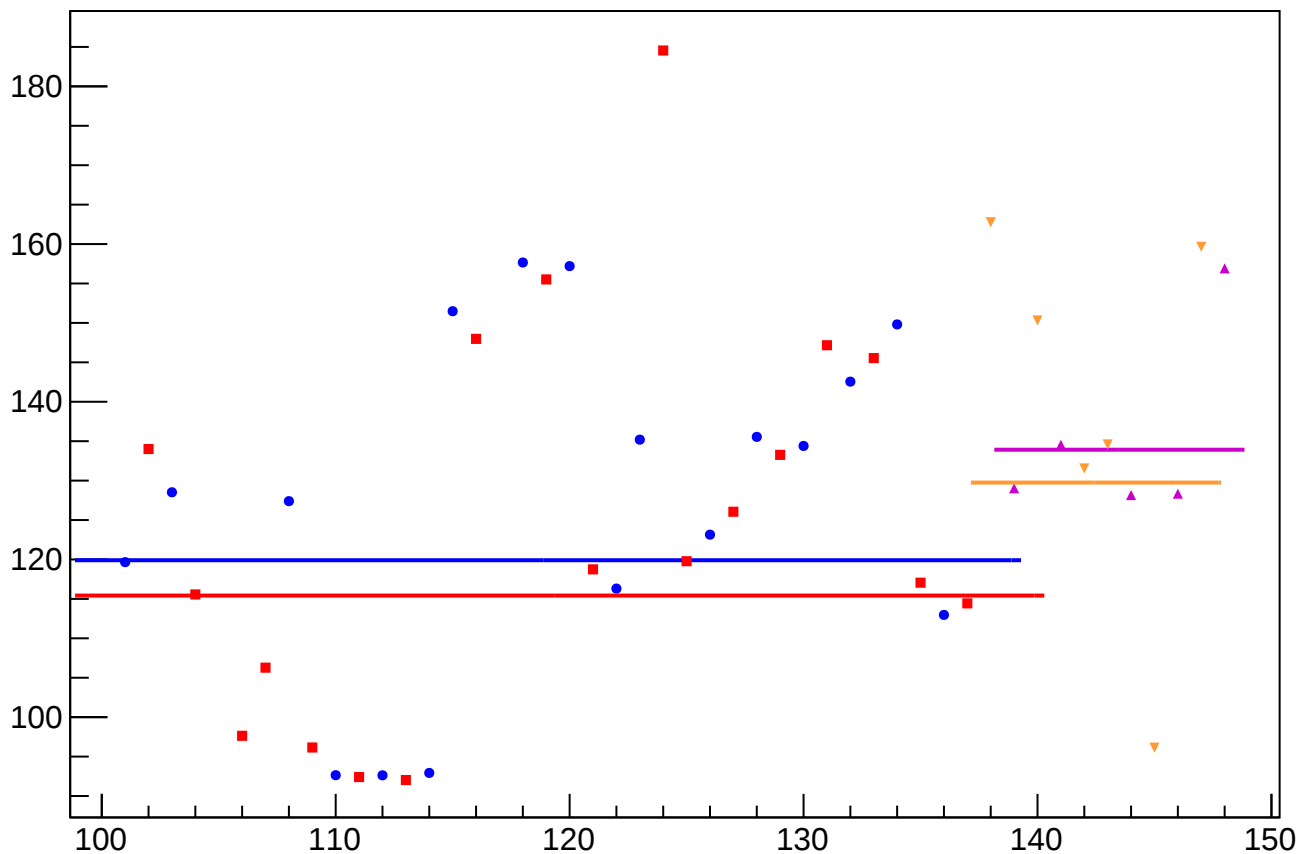
Left In: -170.475 $\pm$ 66.786  $\chi^2$ /NDF: 1.5/4

+ sign 153.739 $\pm$ 37.944  $\chi^2$ /NDF: 23.7/22

All: -24.660 $\pm$ 26.510  $\chi^2$ /NDF: 80.6/45

- sign -194.782 $\pm$ 37.053  $\chi^2$ /NDF: 13.7/22

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 129.752 $\pm$ 0.045  $\chi^2$ /NDF:332169.3/5

Right Out: 115.422 $\pm$ 0.031  $\chi^2$ /NDF: 418100.5/17

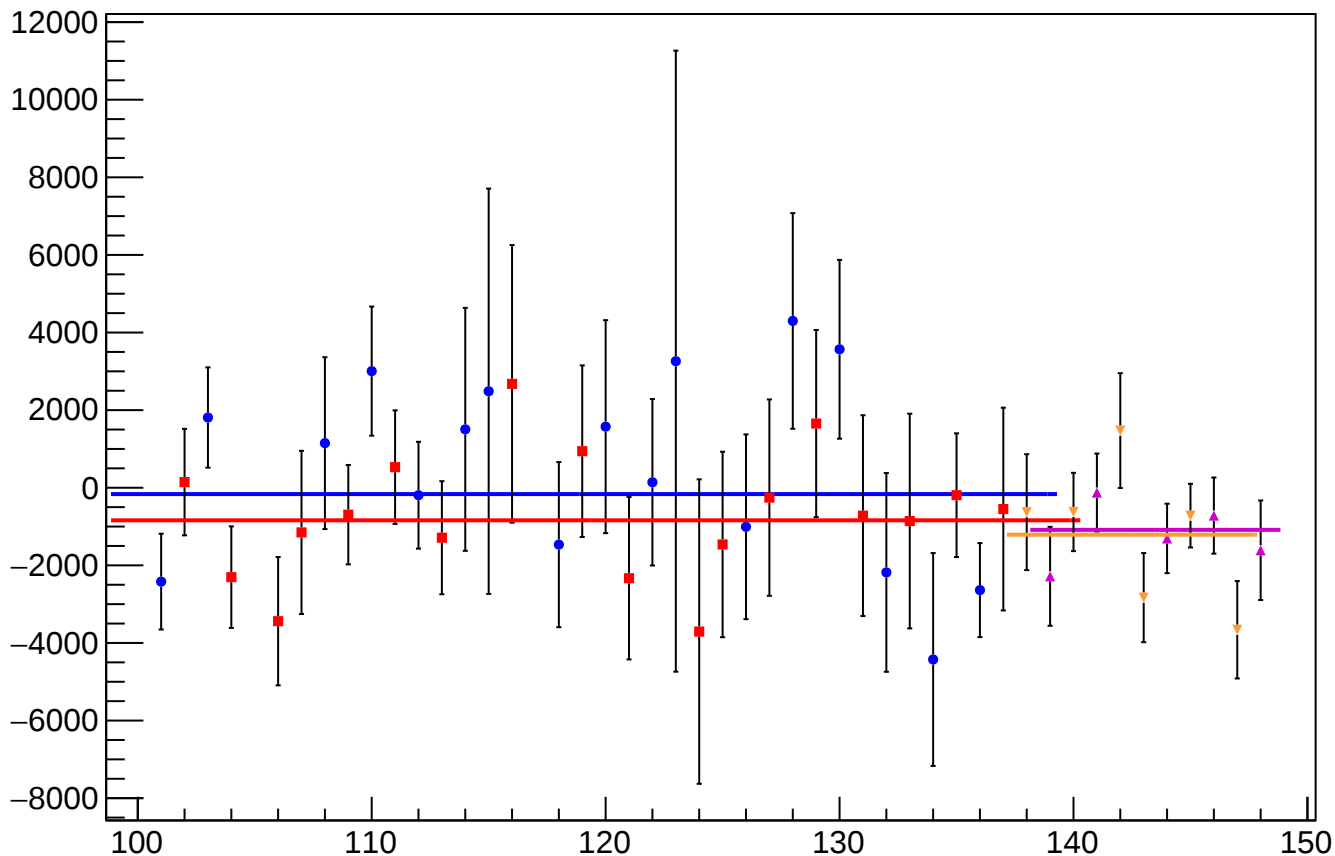
Left In: 133.918 $\pm$ 0.047  $\chi^2$ /NDF:43306.7/4

+ sign 123.340 $\pm$ 0.027  $\chi^2$ /NDF: 708292.2/22

All: 122.201 $\pm$ 0.019  $\chi^2$ /NDF: 1279394.4/45

- sign 121.115 $\pm$ 0.026  $\chi^2$ /NDF: 567582.2/22

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In:  $-163.538 \pm 469.592$   $\chi^2/\text{NDF}$ : 23.7/16

Left Out:  $-1208.859 \pm 458.091$   $\chi^2/\text{NDF}$ : 9.9/5

Right Out:  $-839.187 \pm 440.476$   $\chi^2/\text{NDF}$ : 9.3/17

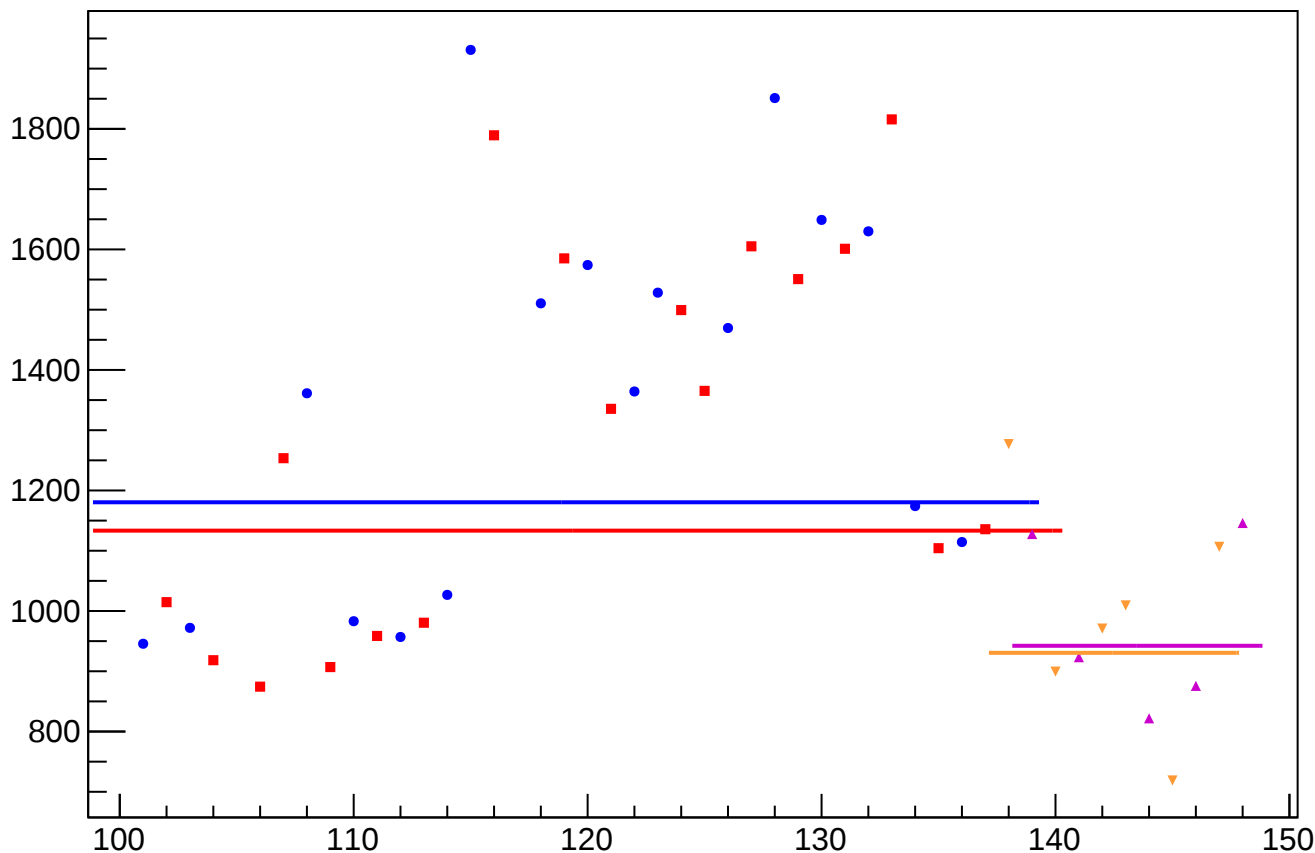
Left In:  $-1085.203 \pm 471.418$   $\chi^2/\text{NDF}$ : 2.2/4

+ sign  $-699.156 \pm 327.910$   $\chi^2/\text{NDF}$ : 36.2/22

All:  $-828.883 \pm 229.694$   $\chi^2/\text{NDF}$ : 48.1/45

- sign  $-953.856 \pm 321.847$   $\chi^2/\text{NDF}$ : 11.6/22

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1180.403 $\pm$ 0.332  $\chi^2$ /NDF: 668845.5/16

Left Out: 930.594 $\pm$ 0.324  $\chi^2$ /NDF: 292846.8/5

Right Out: 1133.347 $\pm$ 0.311  $\chi^2$ /NDF: 760395.8/17

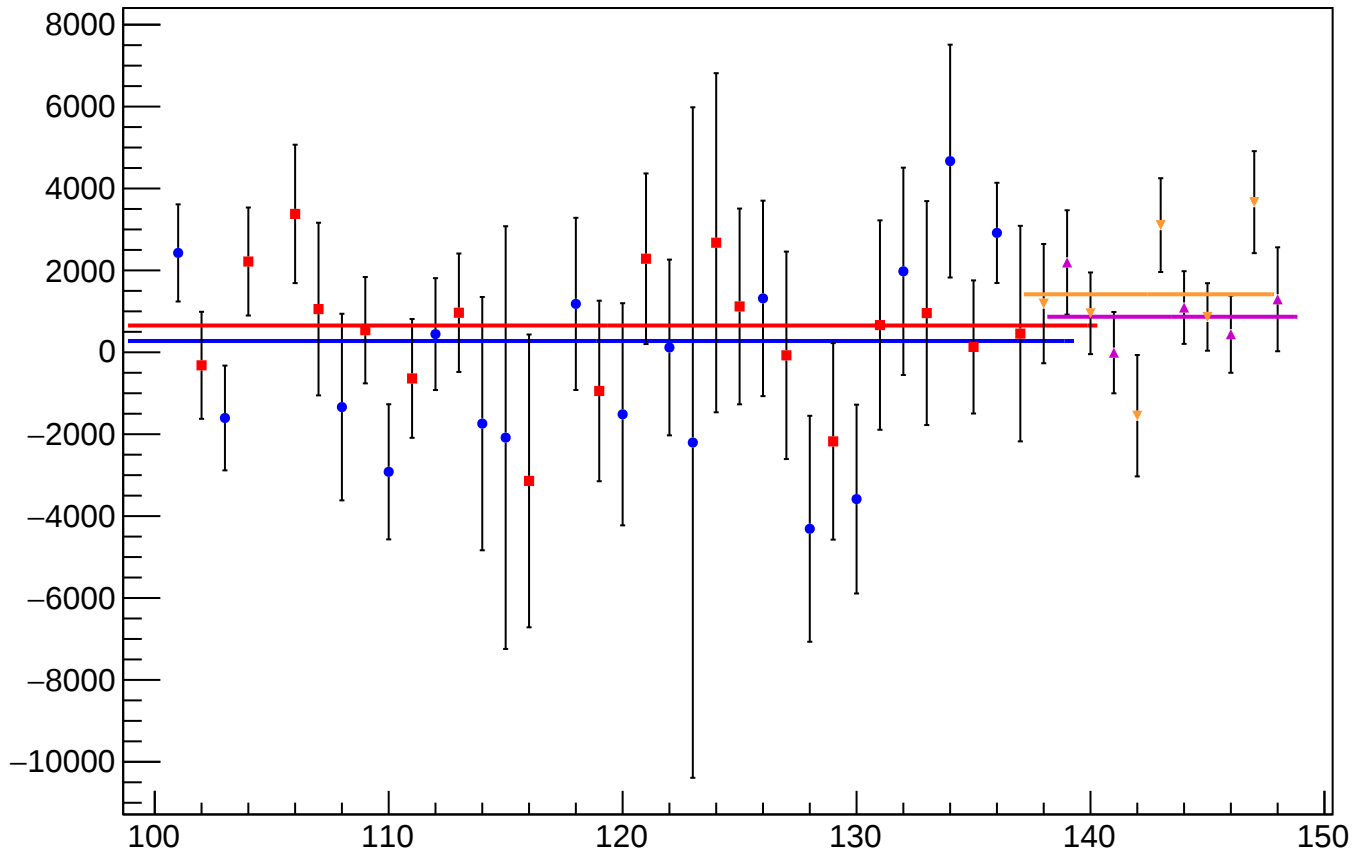
Left In: 942.271 $\pm$ 0.333  $\chi^2$ /NDF: 138892.4/4

+ sign 1052.402 $\pm$ 0.232  $\chi^2$ /NDF: 1251700.8/22

All: 1048.268 $\pm$ 0.162  $\chi^2$ /NDF: 2327034.1/45

- sign 1044.285 $\pm$ 0.228  $\chi^2$ /NDF: 1074709.2/22

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 276.422 $\pm$ 466.424  $\chi^2$ /NDF: 24.3/16

Left Out: 1416.830 $\pm$ 455.918  $\chi^2$ /NDF:10.1/5

Right Out: 654.406 $\pm$ 439.824  $\chi^2$ /NDF: 9.6/17

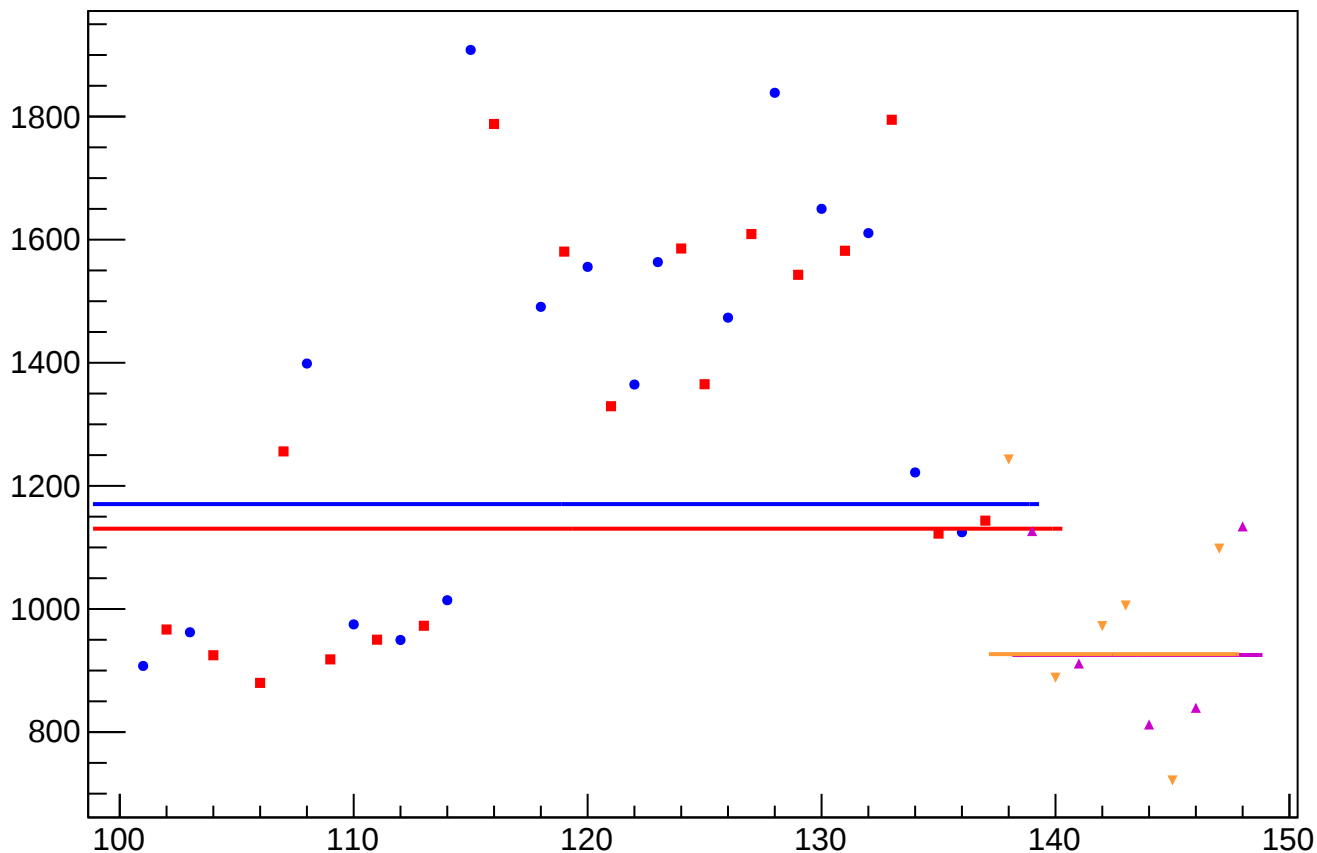
Left In: 868.000 $\pm$ 463.934  $\chi^2$ /NDF:2.2/4

+ sign 859.614 $\pm$ 326.034  $\chi^2$ /NDF: 37.5/22

All: 806.457 $\pm$ 228.081  $\chi^2$ /NDF: 49.5/45

- sign 755.509 $\pm$ 319.186  $\chi^2$ /NDF: 11.9/22

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1170.404 $\pm$ 0.330  $\chi^2$ /NDF: 705486.8/16

Left Out: 926.661 $\pm$ 0.322  $\chi^2$ /NDF: 270396.6/5

Right Out: 1130.456 $\pm$ 0.311  $\chi^2$ /NDF: 763027.2/17

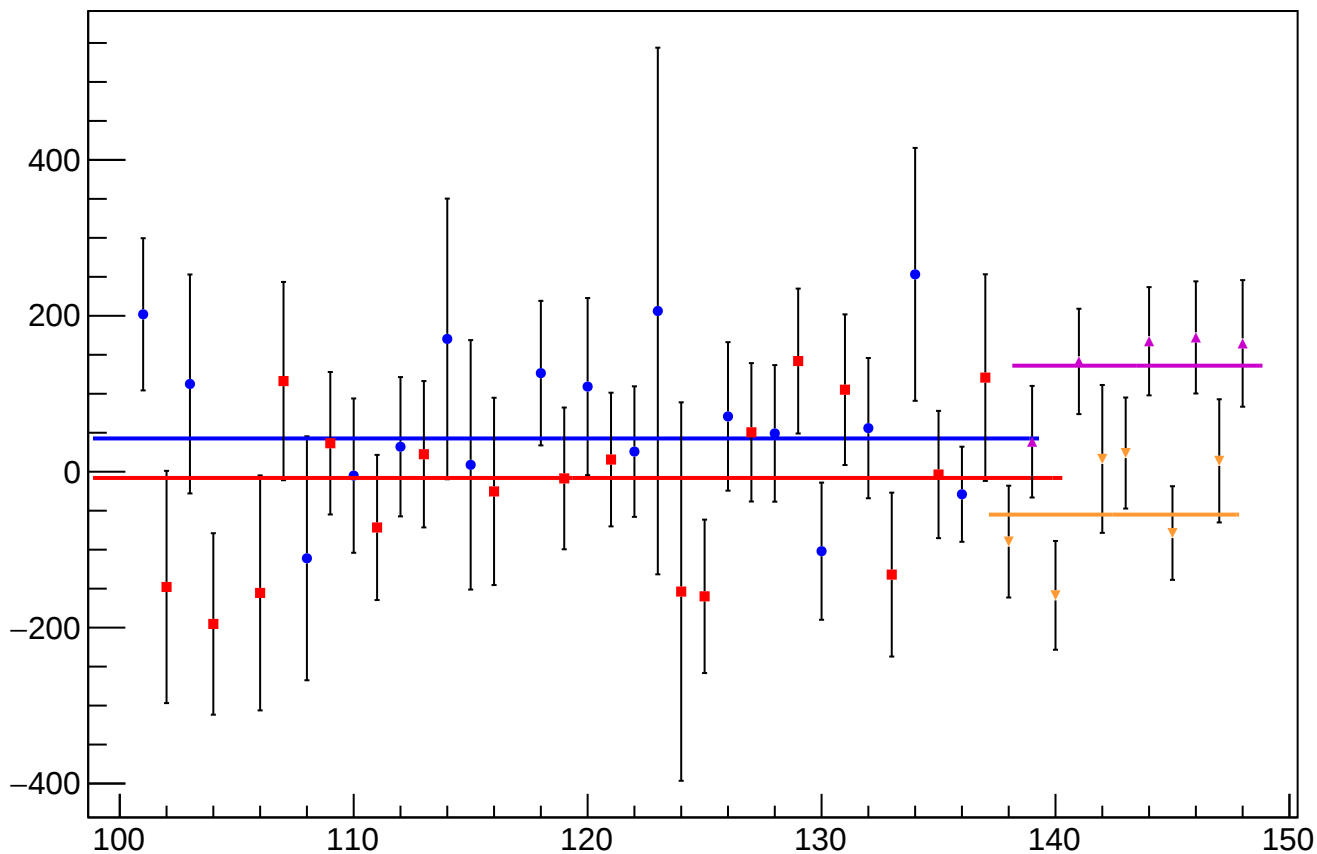
Left In: 925.262 $\pm$ 0.328  $\chi^2$ /NDF: 153467.1/4

+ sign 1045.757 $\pm$ 0.231  $\chi^2$ /NDF: 1255192.3/22

All: 1039.411 $\pm$ 0.161  $\chi^2$ /NDF: 2379222.9/45

- sign 1033.329 $\pm$ 0.226  $\chi^2$ /NDF: 1122547.0/22

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In:  $42.674 \pm 24.701$   $\chi^2/\text{NDF}$ : 12.0/16

Left Out:  $-55.028 \pm 29.543$   $\chi^2/\text{NDF}$ : 5.2/5

Right Out:  $-7.995 \pm 24.492$   $\chi^2/\text{NDF}$ : 15.8/17

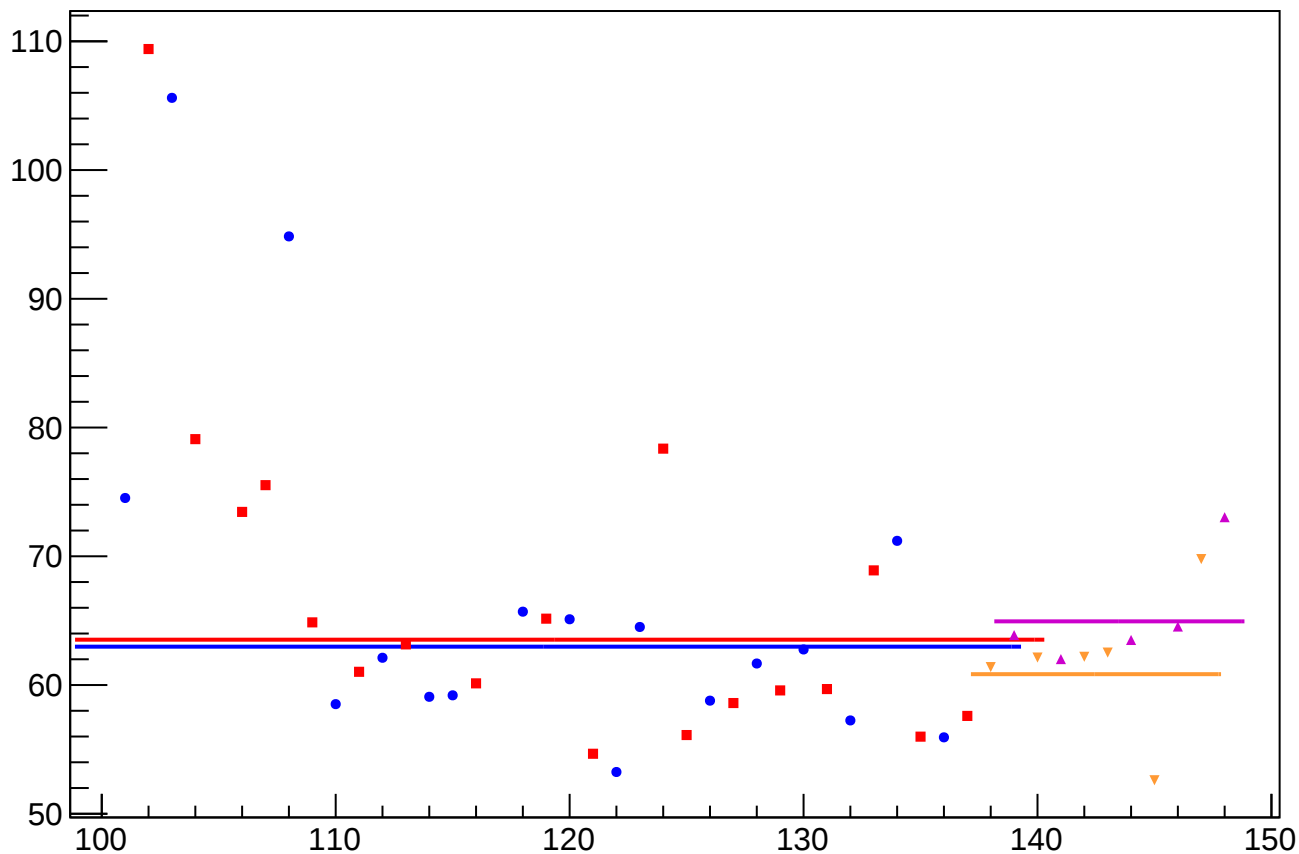
Left In:  $136.028 \pm 32.166$   $\chi^2/\text{NDF}$ : 2.4/4

+ sign  $2.475 \pm 18.950$   $\chi^2/\text{NDF}$ : 23.6/22

All:  $23.077 \pm 13.585$   $\chi^2/\text{NDF}$ : 56.9/45

- sign  $44.861 \pm 19.486$   $\chi^2/\text{NDF}$ : 30.9/22

# 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:  $60.843 \pm 0.021$   $\chi^2/\text{NDF}: 65571.9/5$

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}: 335430.9/17$

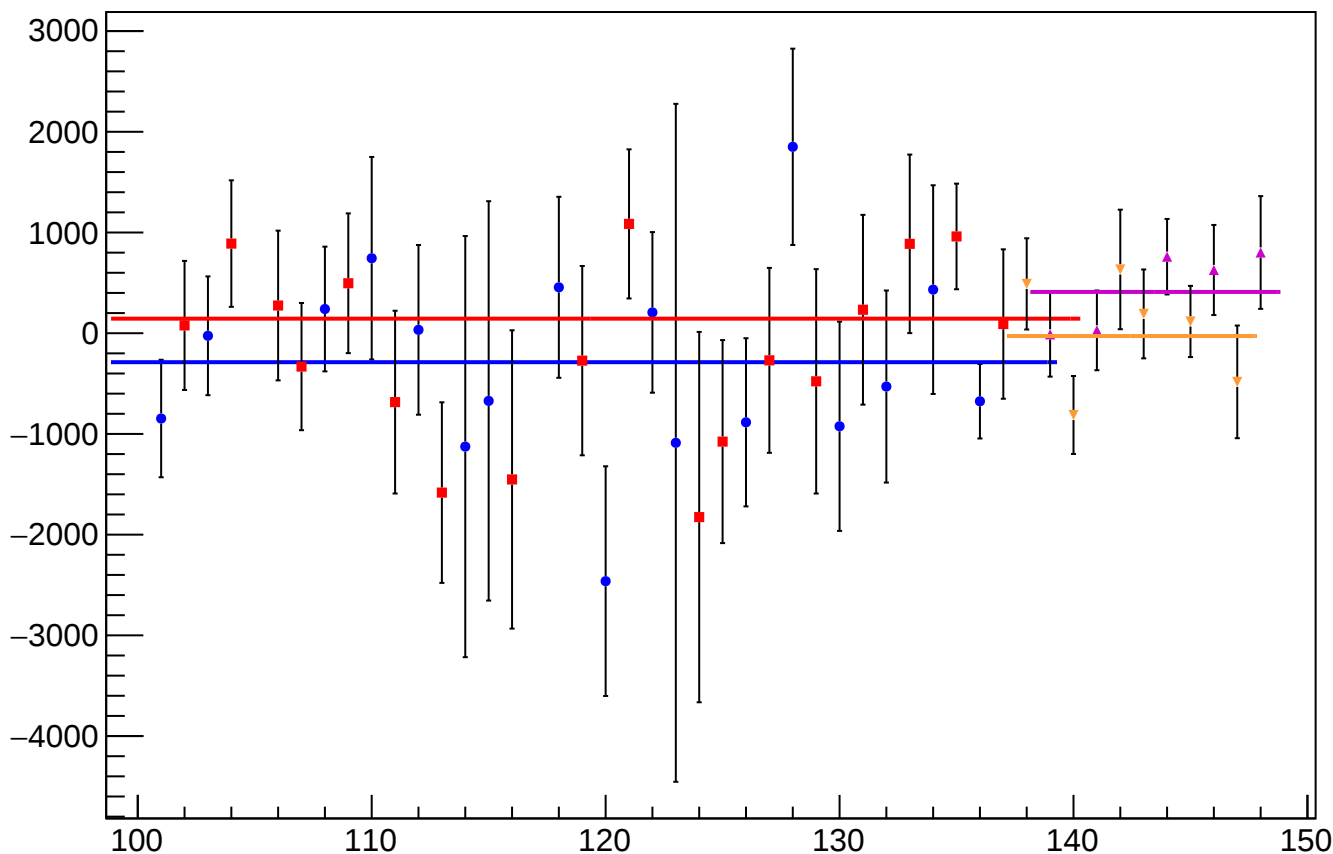
Left In:  $64.946 \pm 0.023$   $\chi^2/\text{NDF}: 24989.3/4$

+ sign  $62.101 \pm 0.013$   $\chi^2/\text{NDF}: 446992.7/22$

All:  $63.046 \pm 0.010$   $\chi^2/\text{NDF}: 820117.5/45$

- sign  $64.045 \pm 0.014$   $\chi^2/\text{NDF}: 362899.0/22$

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In:  $-287.682 \pm 189.888$   $\chi^2/\text{NDF}$ : 15.4/16

Left Out:  $-28.040 \pm 180.404$   $\chi^2/\text{NDF}$ : 7.7/5

Right Out:  $144.624 \pm 187.777$   $\chi^2/\text{NDF}$ : 16.1/17

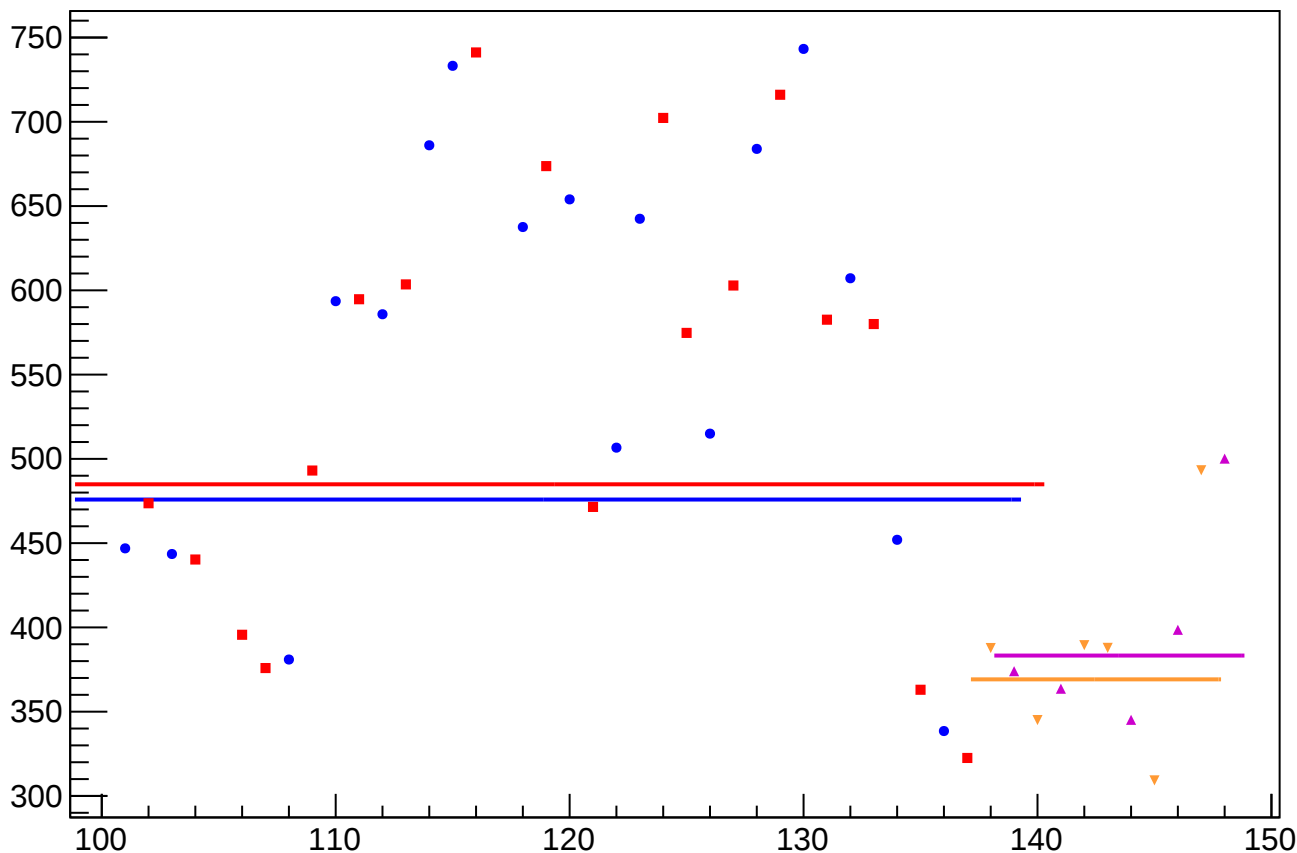
Left In:  $409.898 \pm 191.160$   $\chi^2/\text{NDF}$ : 3.5/4

+ sign  $-151.216 \pm 130.789$   $\chi^2/\text{NDF}$ : 24.1/22

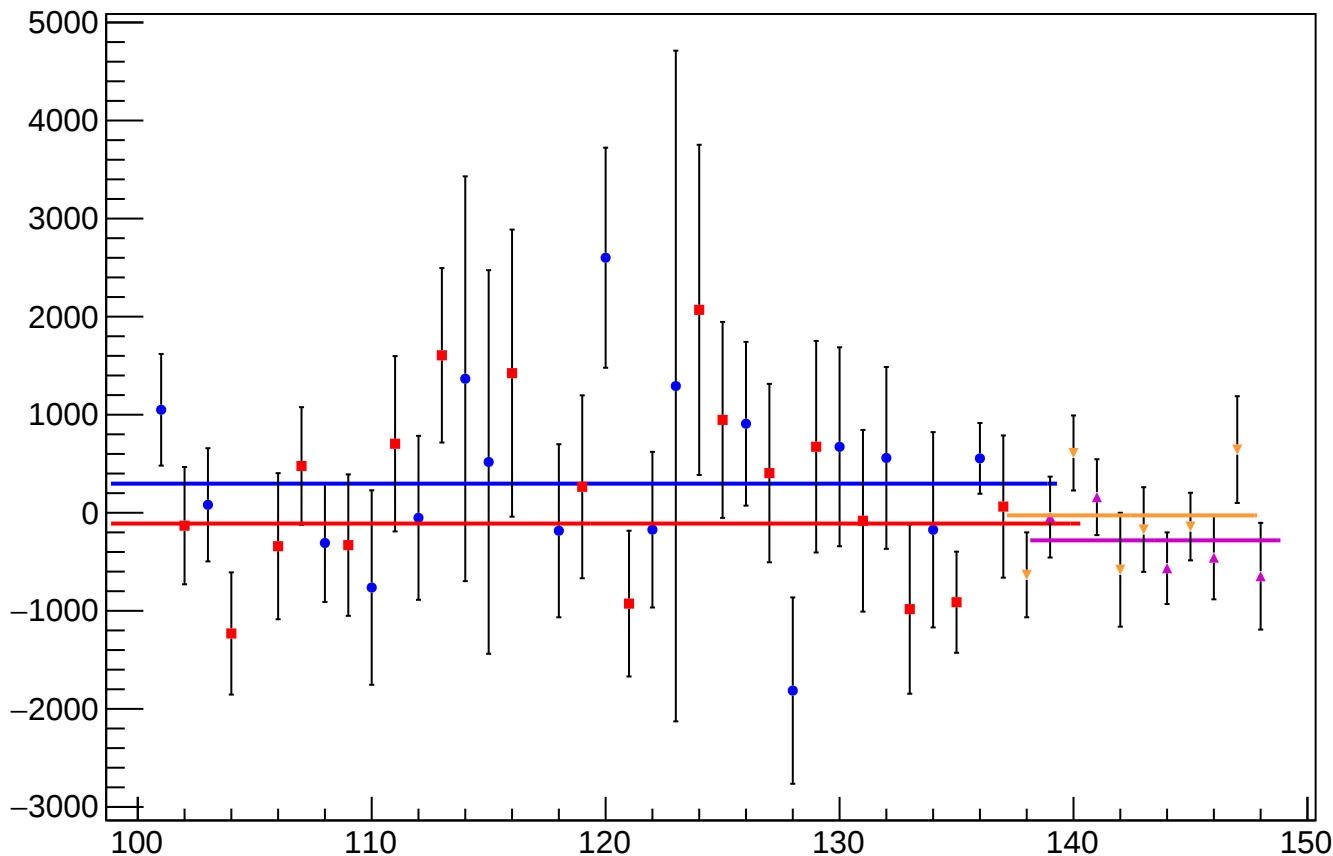
All:  $56.738 \pm 93.582$   $\chi^2/\text{NDF}$ : 49.8/45

- sign  $274.892 \pm 133.958$   $\chi^2/\text{NDF}$ : 20.6/22

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 296.984 $\pm$ 185.975  $\chi^2$ /NDF: 15.9/16

Left Out: -26.539 $\pm$ 176.006  $\chi^2$ /NDF: 7.4/5

Right Out: -110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

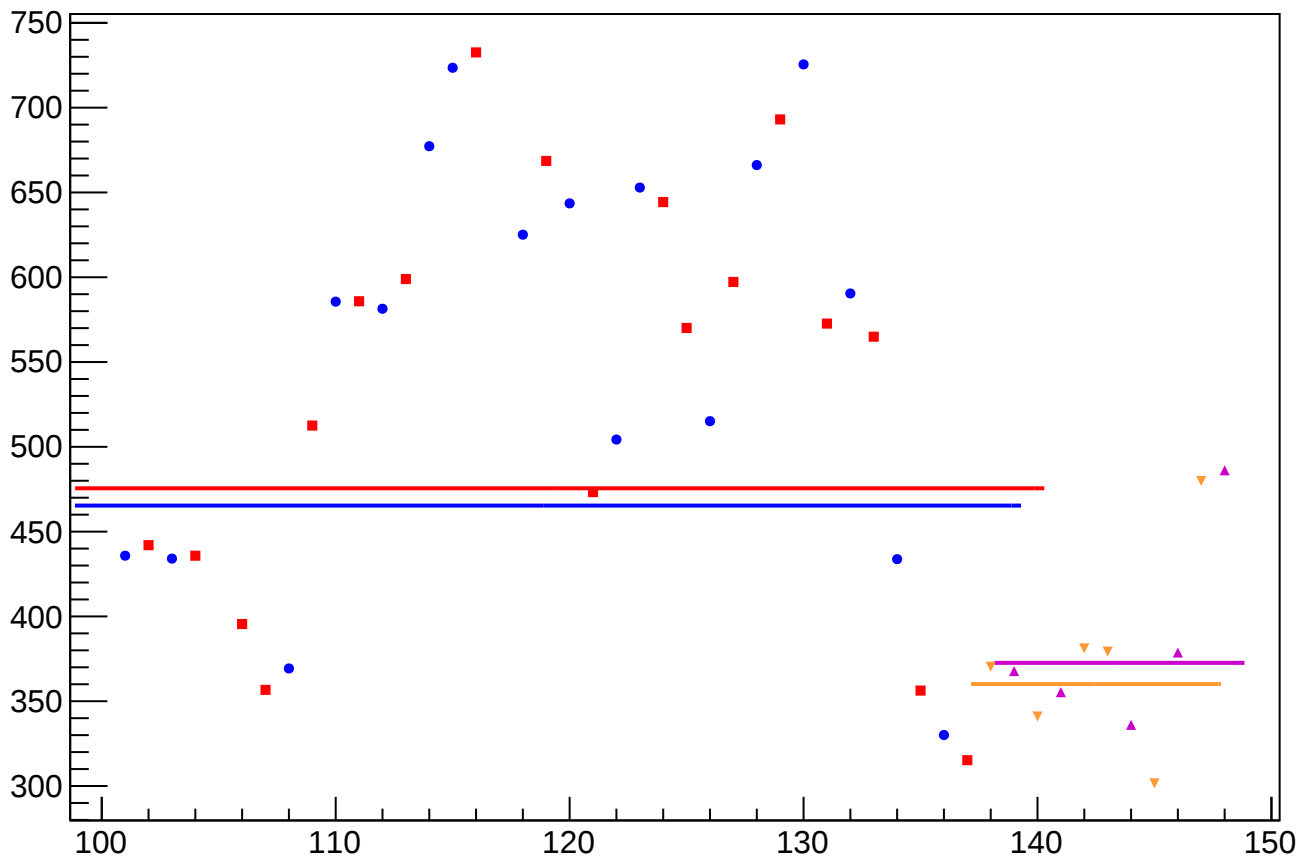
Left In: -281.342 $\pm$ 185.879  $\chi^2$ /NDF: 2.9/4

+ sign 126.319 $\pm$ 127.834  $\chi^2$ /NDF: 24.8/22

All: -30.549 $\pm$ 91.461  $\chi^2$ /NDF: 49.7/45

- sign -195.058 $\pm$ 130.910  $\chi^2$ /NDF: 21.8/22

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 465.356+/-0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 360.114+/-0.124  $\chi^2/\text{NDF}$ : 167126.9/5

Right Out: 475.559+/-0.130  $\chi^2/\text{NDF}$ : 740849.9/17

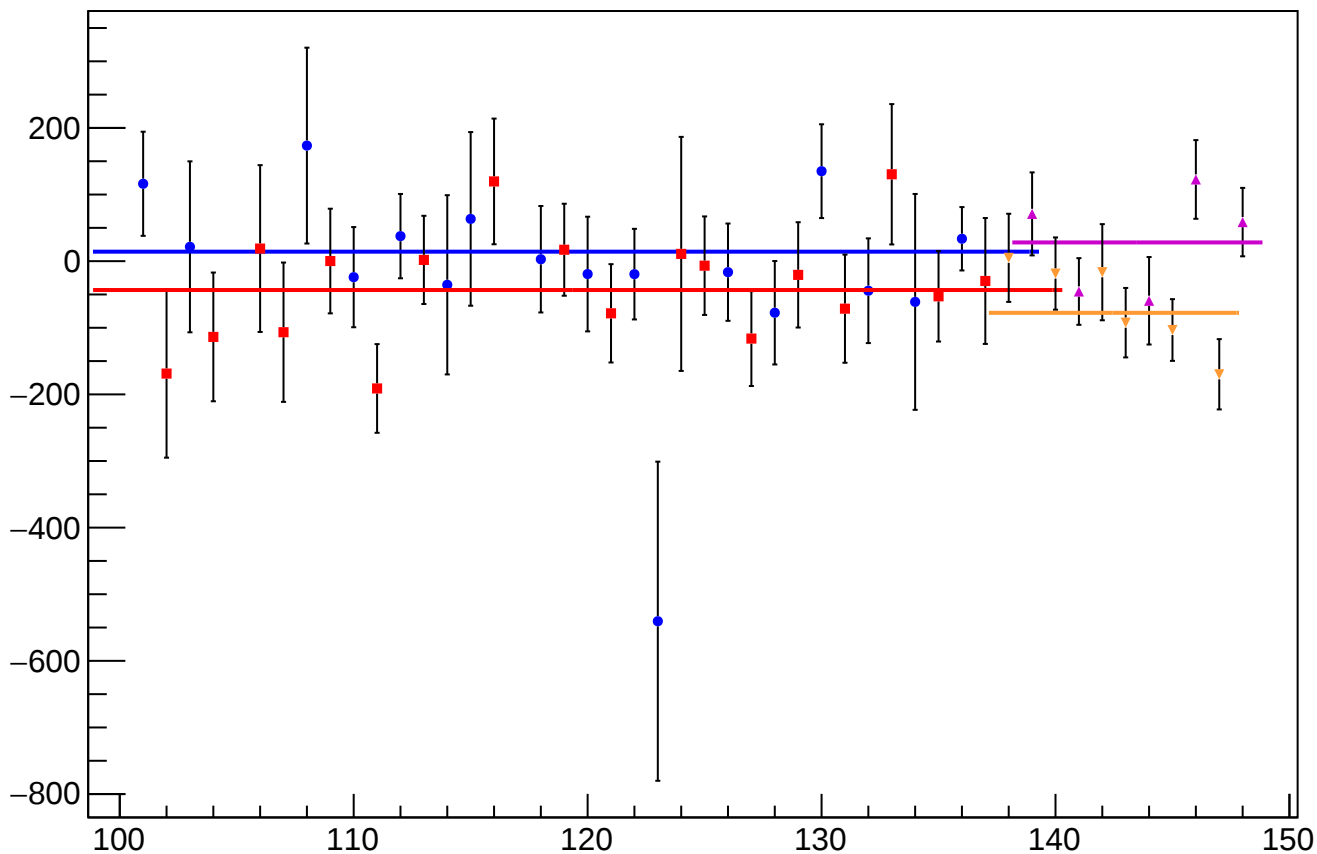
Left In: 372.614+/-0.131  $\chi^2/\text{NDF}$ : 111727.5/4

+ sign 409.839+/-0.090  $\chi^2/\text{NDF}$ : 1365402.5/22

All: 416.994+/-0.065  $\chi^2/\text{NDF}$ : 2539991.3/45

- sign 424.498+/-0.093  $\chi^2/\text{NDF}$ : 1161751.7/22

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 14.253+/-19.867  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -77.563+/-22.626  $\chi^2/\text{NDF}$ : 6.9/5

Right Out: -43.336+/-19.650  $\chi^2/\text{NDF}$ : 16.2/17

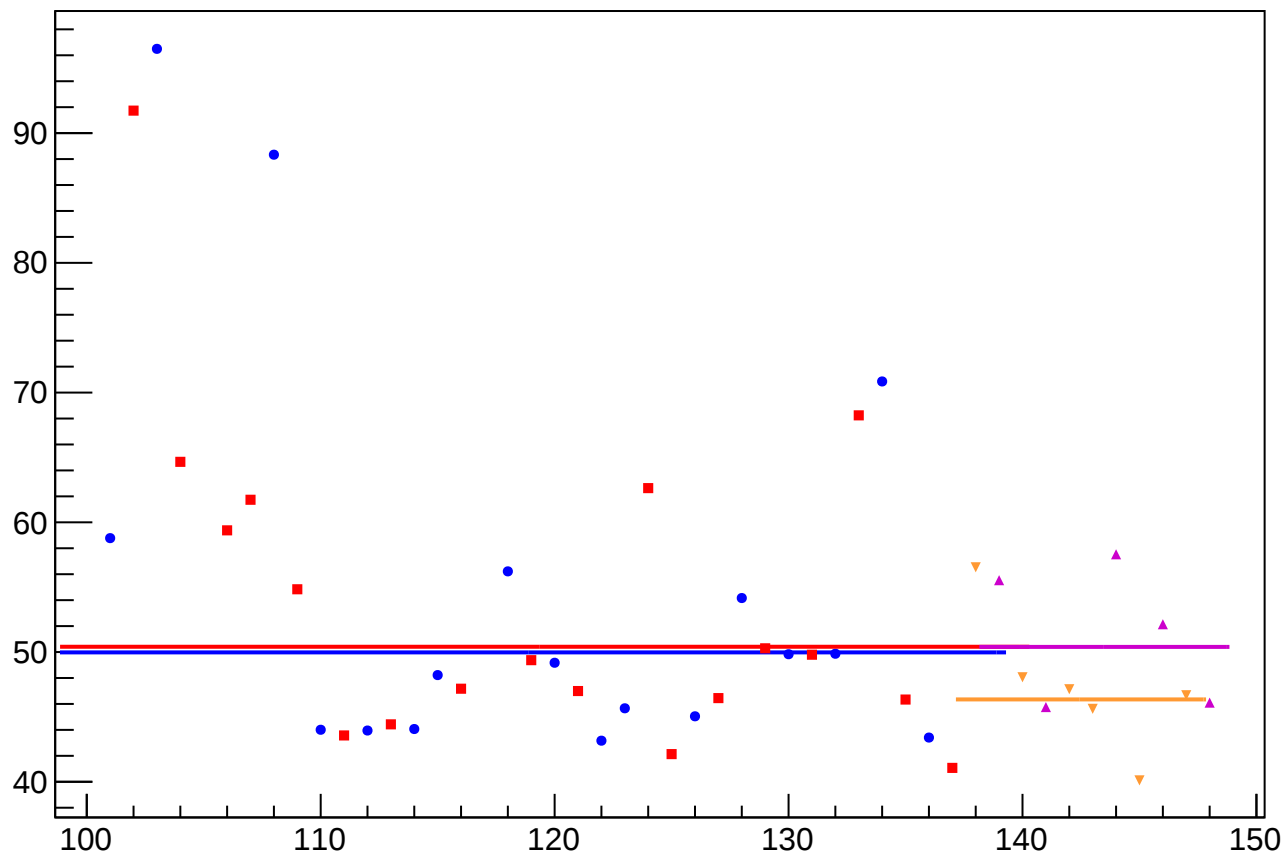
Left In: 28.098+/-25.363  $\chi^2/\text{NDF}$ : 7.3/4

+ sign -25.717+/-14.929  $\chi^2/\text{NDF}$ : 31.0/22

All: -21.312+/-10.764  $\chi^2/\text{NDF}$ : 59.6/45

- sign -16.542+/-15.533  $\chi^2/\text{NDF}$ : 28.4/22

# dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In:  $49.973 \pm 0.014$   $\chi^2/\text{NDF}: 578750.7/16$

Left Out:  $46.348 \pm 0.016$   $\chi^2/\text{NDF}: 86363.4/5$

Right Out:  $50.408 \pm 0.014$   $\chi^2/\text{NDF}: 467481.4/17$

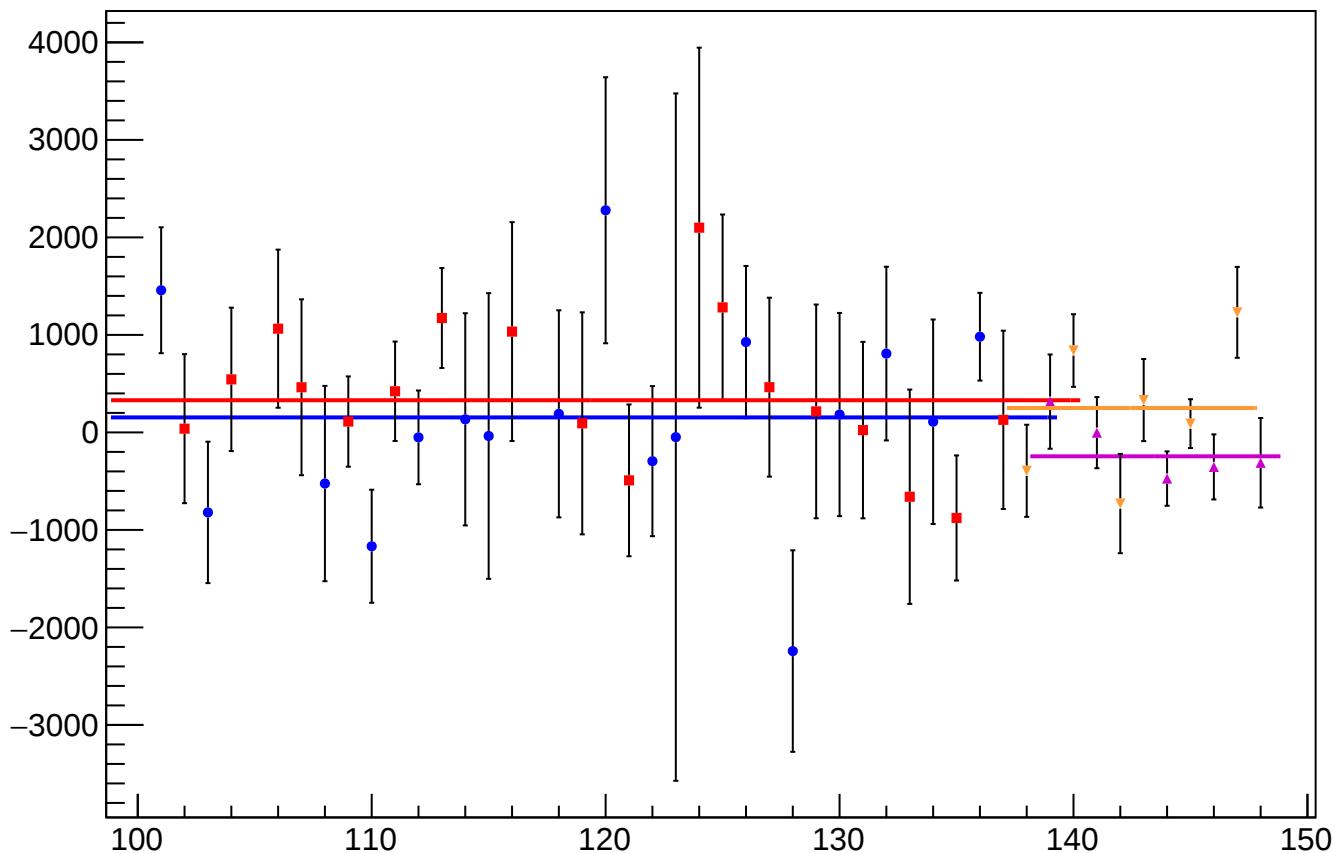
Left In:  $50.397 \pm 0.018$   $\chi^2/\text{NDF}: 70185.1/4$

+ sign  $48.395 \pm 0.011$   $\chi^2/\text{NDF}: 694105.5/22$

All:  $49.359 \pm 0.008$   $\chi^2/\text{NDF}: 1249159.3/45$

- sign  $50.404 \pm 0.011$   $\chi^2/\text{NDF}: 537666.7/22$

# 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:  $250.344 \pm 154.804$   $\chi^2/\text{NDF}$ : 12.9/5

Right Out:  $329.952 \pm 179.795$   $\chi^2/\text{NDF}$ : 12.1/17

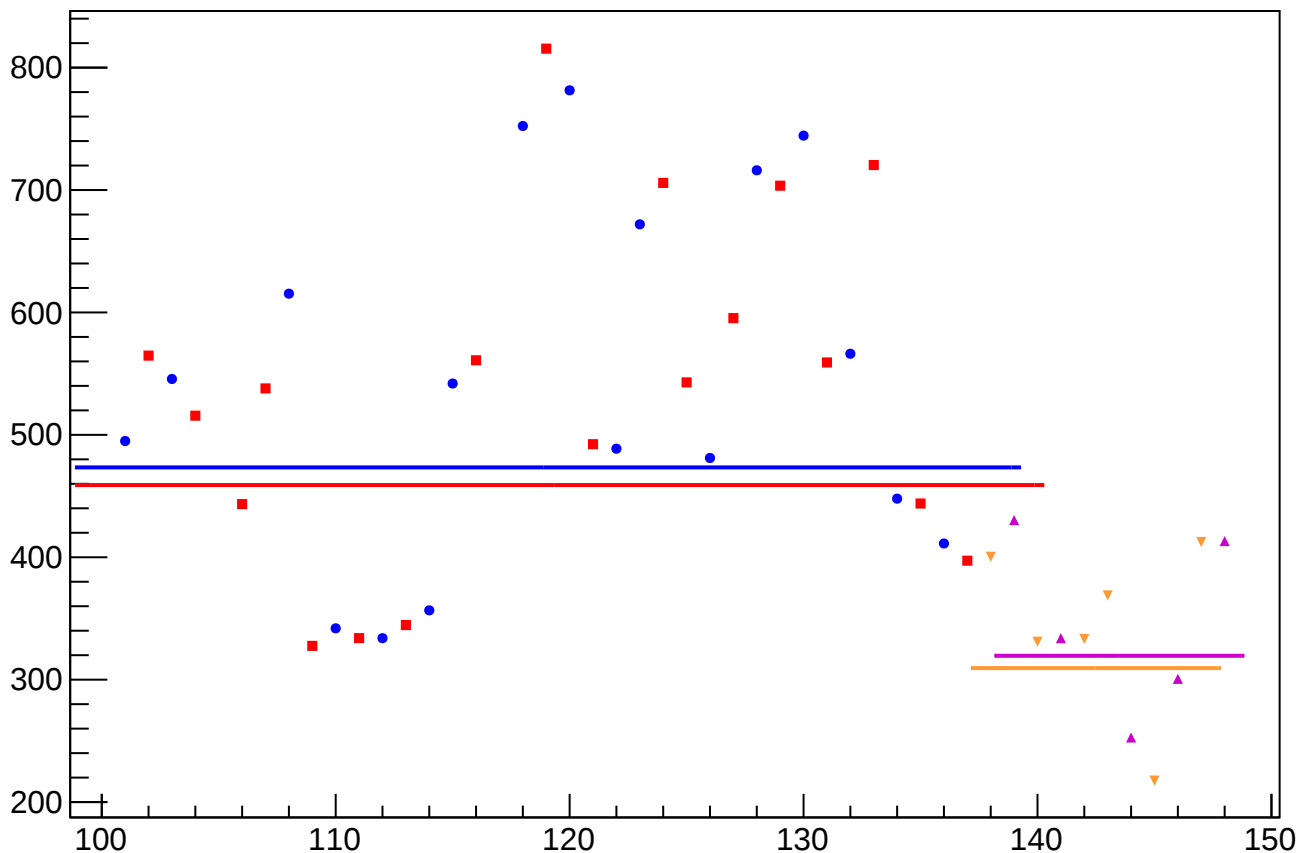
Left In:  $-245.216 \pm 161.416$   $\chi^2/\text{NDF}$ : 2.6/4

+ sign  $211.833 \pm 120.004$   $\chi^2/\text{NDF}$ : 37.9/22

All:  $111.745 \pm 84.894$   $\chi^2/\text{NDF}$ : 59.6/45

- sign  $11.477 \pm 120.112$   $\chi^2/\text{NDF}$ : 20.3/22

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 473.406 $\pm$ 0.134  $\chi^2$ /NDF: 914927.8/16

Left Out: 309.448 $\pm$ 0.109  $\chi^2$ /NDF: 491854.9/5

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

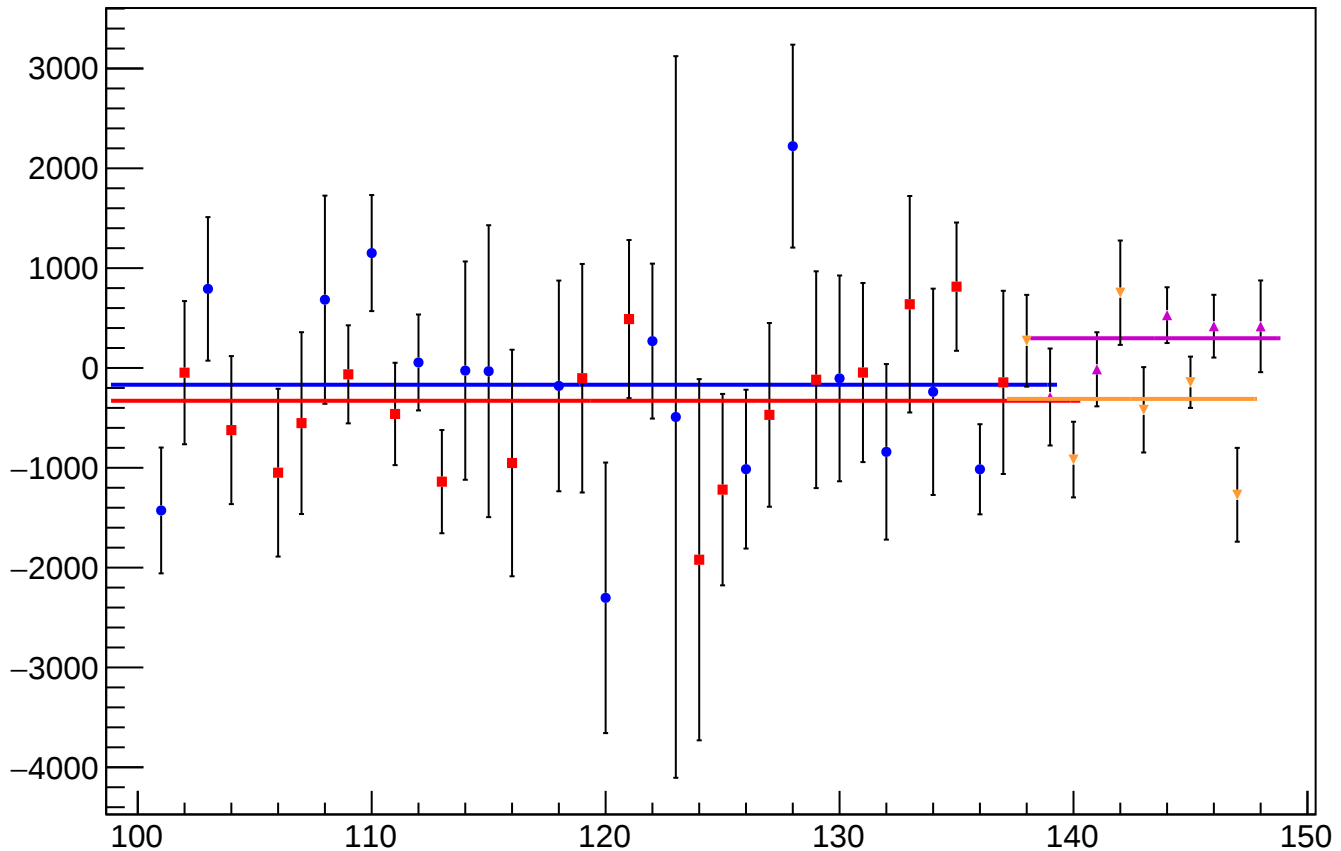
Left In: 319.517 $\pm$ 0.114  $\chi^2$ /NDF: 312578.2/4

+ sign 374.879 $\pm$ 0.085  $\chi^2$ /NDF: 2302108.8/22

All: 378.318 $\pm$ 0.060  $\chi^2$ /NDF: 4290616.2/45

- sign 381.762 $\pm$ 0.085  $\chi^2$ /NDF: 1985220.7/22

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: -168.049+/-189.758  $\chi^2/\text{NDF}$ : 25.4/16

Left Out: -309.924+/-157.117  $\chi^2/\text{NDF}$ : 13.0/5

Right Out: -328.598+/-181.559  $\chi^2/\text{NDF}$ : 11.1/17

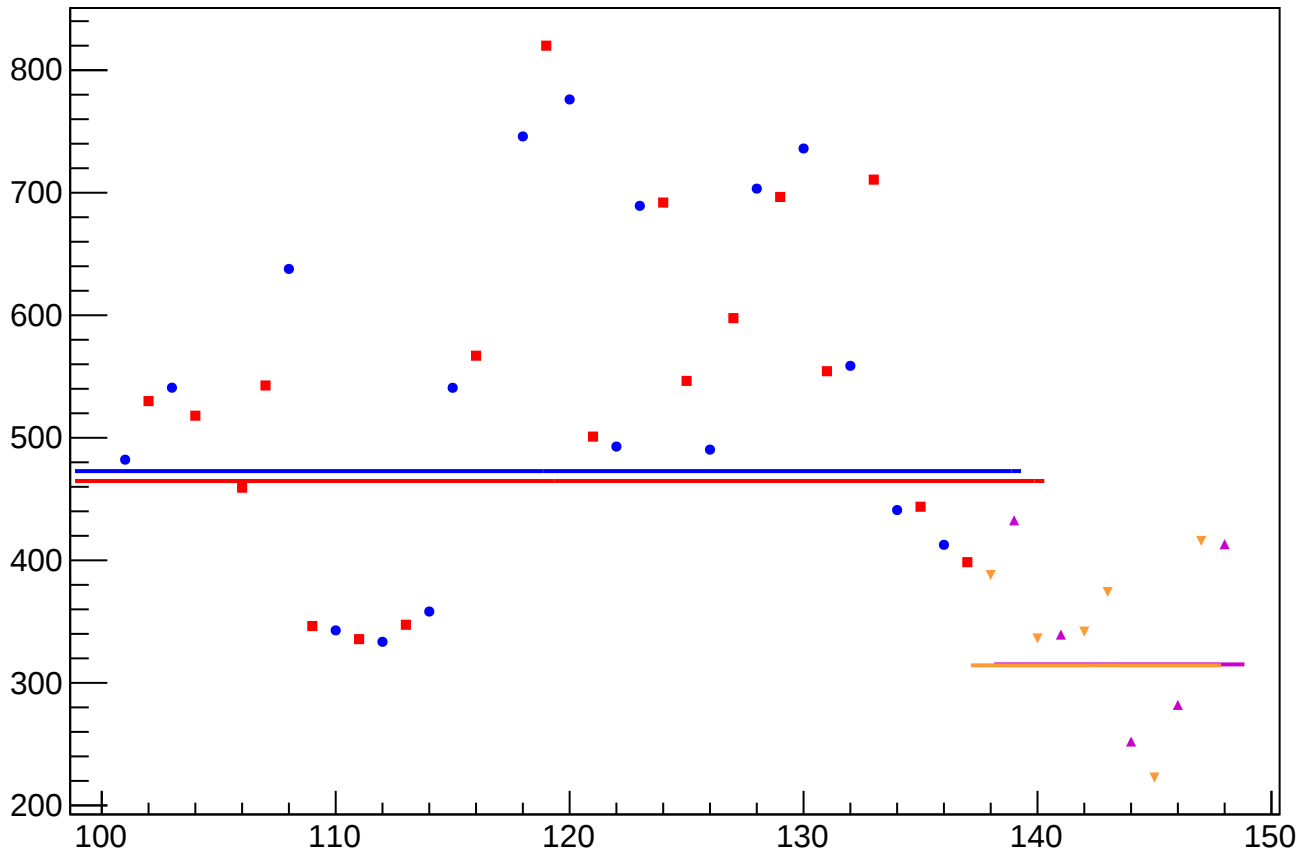
Left In: 297.714+/-159.788  $\chi^2/\text{NDF}$ : 3.1/4

+ sign -252.220+/-121.018  $\chi^2/\text{NDF}$ : 38.7/22

All: -112.712+/-85.193  $\chi^2/\text{NDF}$ : 62.3/45

- sign 24.343+/-119.950  $\chi^2/\text{NDF}$ : 20.9/22

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 472.820 +/- 0.134  $\chi^2/\text{NDF}$ : 896373.5/16

Left Out: 314.329 +/- 0.111  $\chi^2/\text{NDF}$ : 450364.0/5

Right Out: 464.761 +/- 0.128  $\chi^2/\text{NDF}$ : 914781.1/17

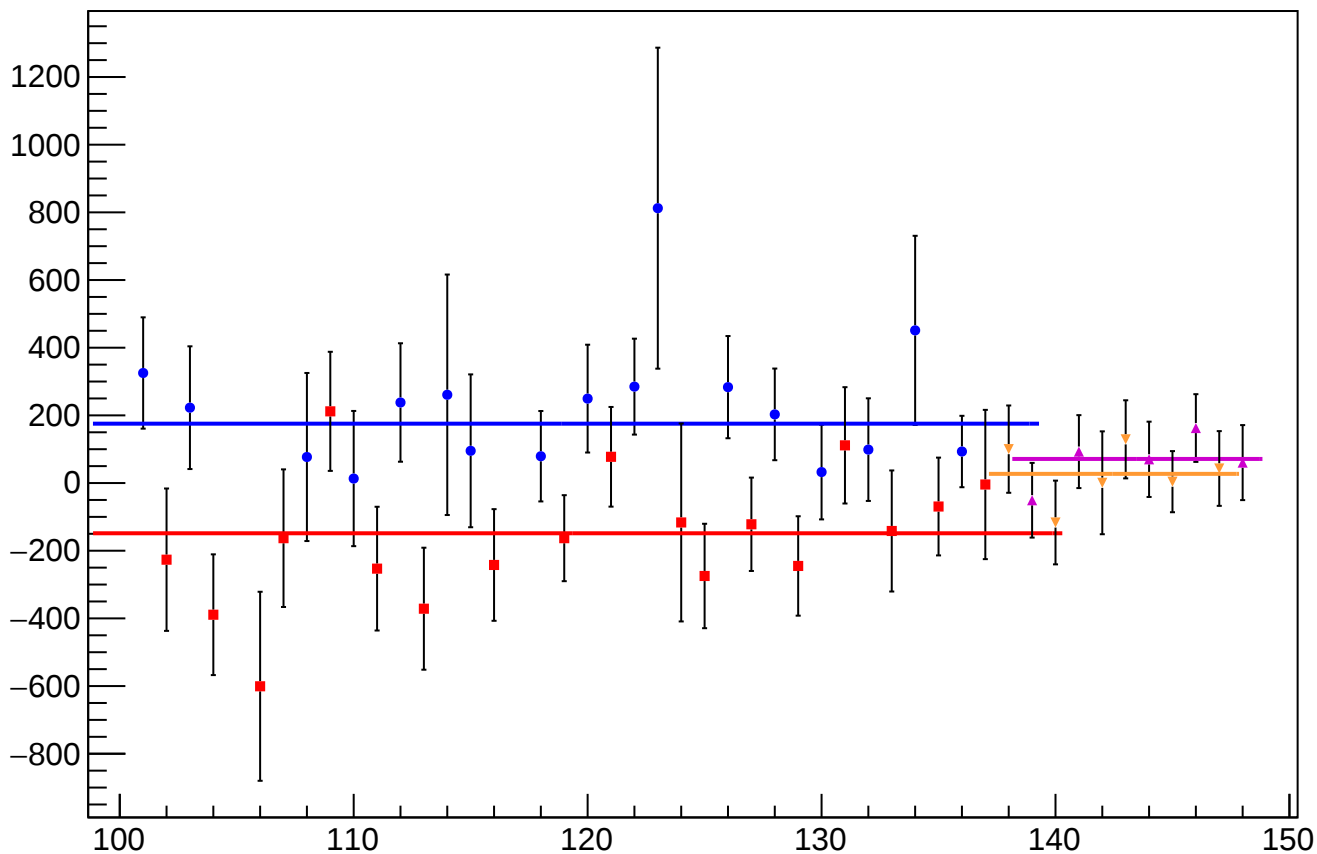
Left In: 315.069 +/- 0.113  $\chi^2/\text{NDF}$ : 340662.8/4

+ sign 378.791 +/- 0.086  $\chi^2/\text{NDF}$ : 2174474.6/22

All: 379.606 +/- 0.060  $\chi^2/\text{NDF}$ : 4196218.0/45

- sign 380.406 +/- 0.085  $\chi^2/\text{NDF}$ : 2021563.8/22

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 175.468 $\pm$ 40.358  $\chi^2$ /NDF: 8.6/16

Left Out: 27.134 $\pm$ 47.232  $\chi^2$ /NDF: 2.6/5

Right Out: -148.445 $\pm$ 40.332  $\chi^2$ /NDF: 17.5/17

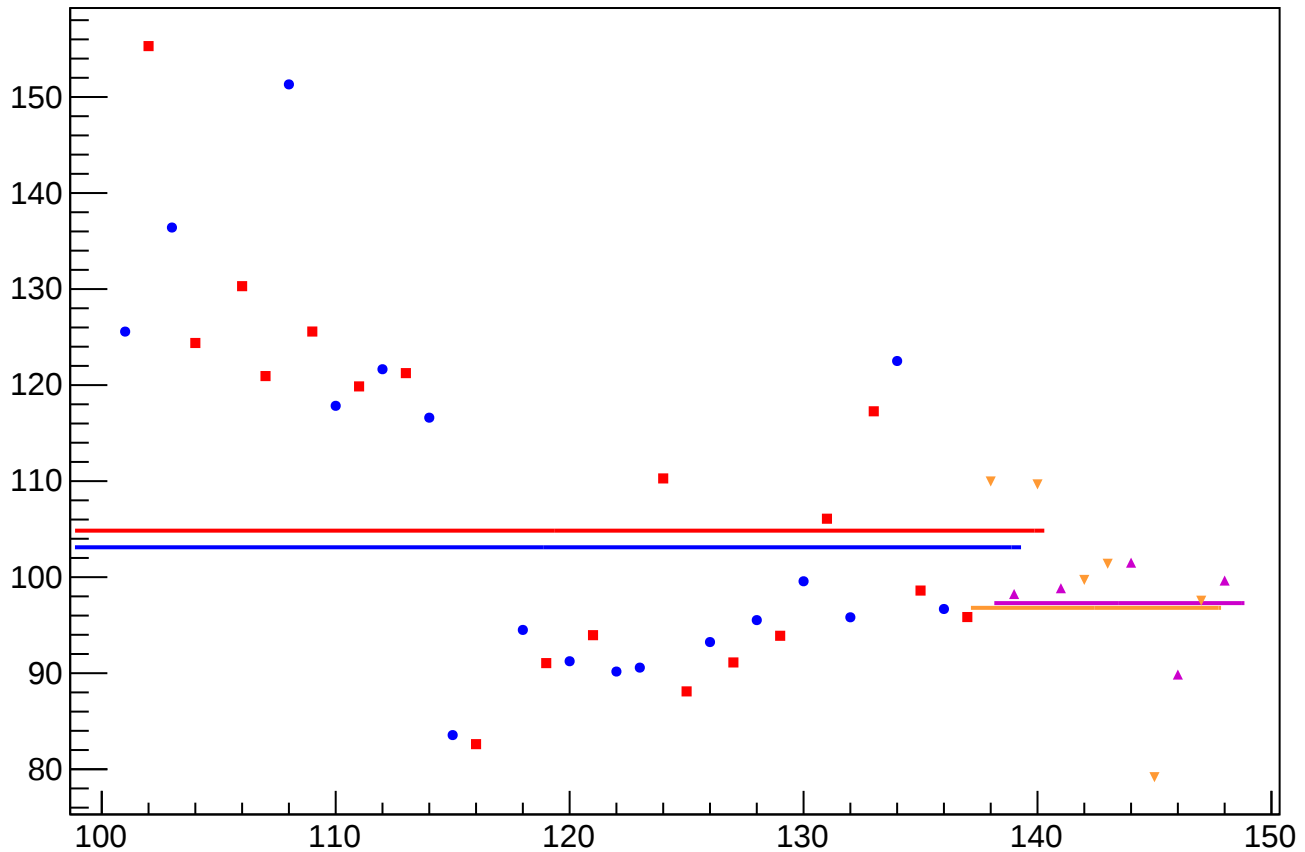
Left In: 71.231 $\pm$ 48.218  $\chi^2$ /NDF: 2.1/4

+ sign 112.870 $\pm$ 30.683  $\chi^2$ /NDF: 16.9/22

All: 28.130 $\pm$ 21.785  $\chi^2$ /NDF: 64.0/45

- sign -58.017 $\pm$ 30.936  $\chi^2$ /NDF: 31.8/22

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 96.806 $\pm$ 0.033  $\chi^2$ /NDF:122590.1/5

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

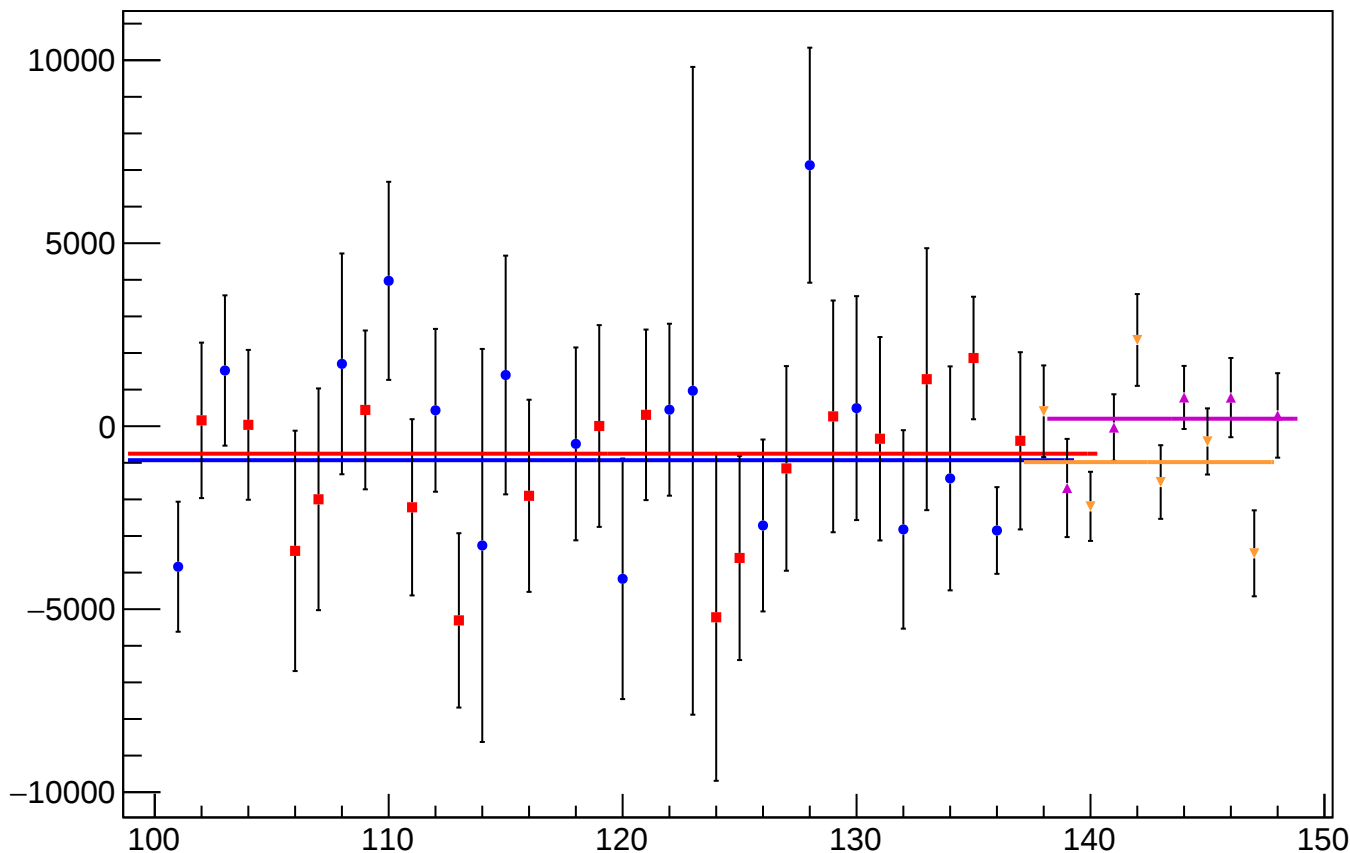
Left In: 97.299 $\pm$ 0.034  $\chi^2$ /NDF:15375.9/4

+ sign 100.451 $\pm$ 0.022  $\chi^2$ /NDF: 449633.5/22

All: 101.089 $\pm$ 0.015  $\chi^2$ /NDF: 864245.4/45

- sign 101.738 $\pm$ 0.022  $\chi^2$ /NDF: 412866.9/22

# 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:  $-981.300 \pm 433.117$   $\chi^2/\text{NDF}$ : 15.1/5

Right Out:  $-751.262 \pm 594.960$   $\chi^2/\text{NDF}$ : 10.9/17

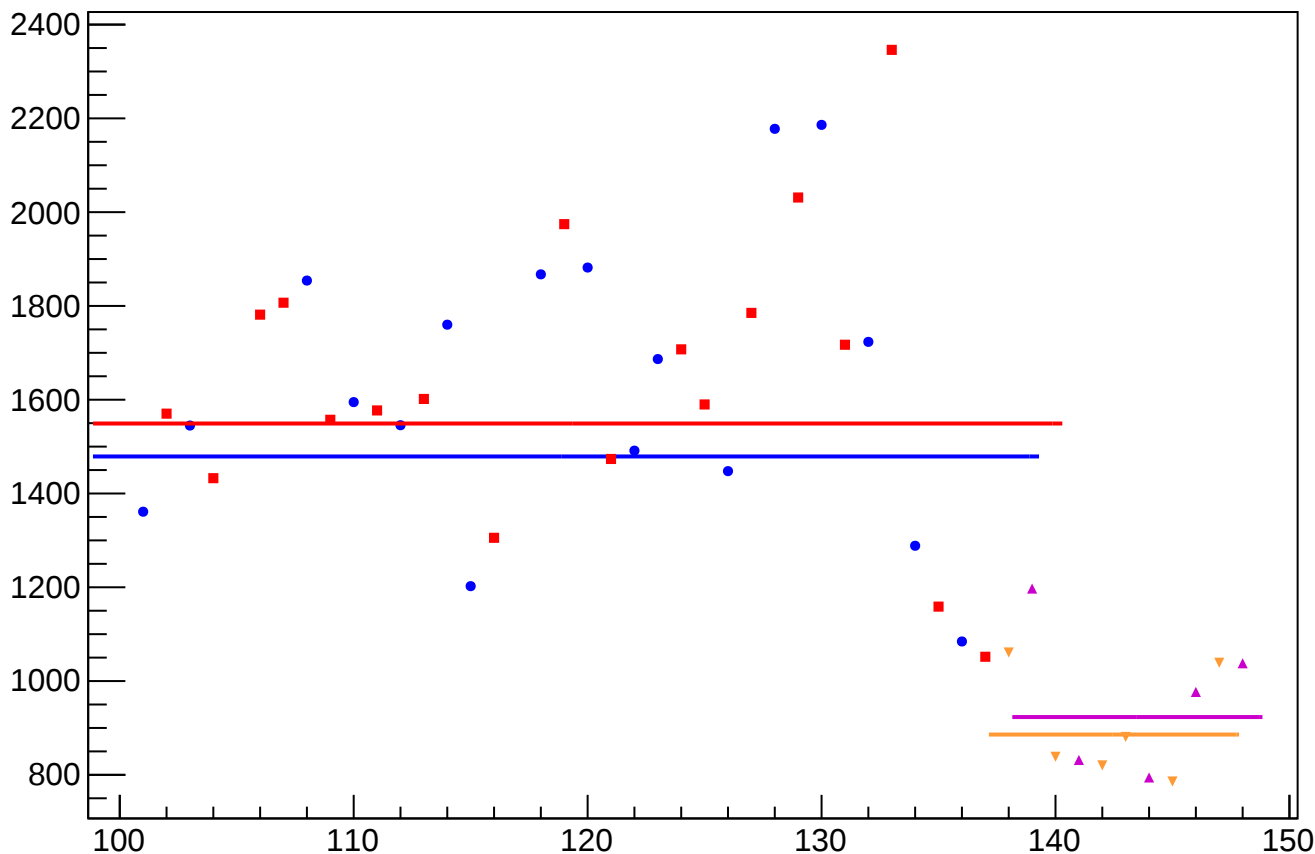
Left In:  $204.295 \pm 460.572$   $\chi^2/\text{NDF}$ : 2.8/4

+ sign  $-962.839 \pm 348.509$   $\chi^2/\text{NDF}$ : 36.0/22

All:  $-576.103 \pm 251.797$   $\chi^2/\text{NDF}$ : 53.9/45

- sign  $-153.764 \pm 364.198$   $\chi^2/\text{NDF}$ : 15.4/22

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1478.991 $\pm$ 0.415  $\chi^2/\text{NDF}$ : 589620.8/16

Left Out: 885.937 $\pm$ 0.306  $\chi^2/\text{NDF}$ : 108186.3/5

Right Out: 1549.266 $\pm$ 0.421  $\chi^2/\text{NDF}$ : 462557.8/17

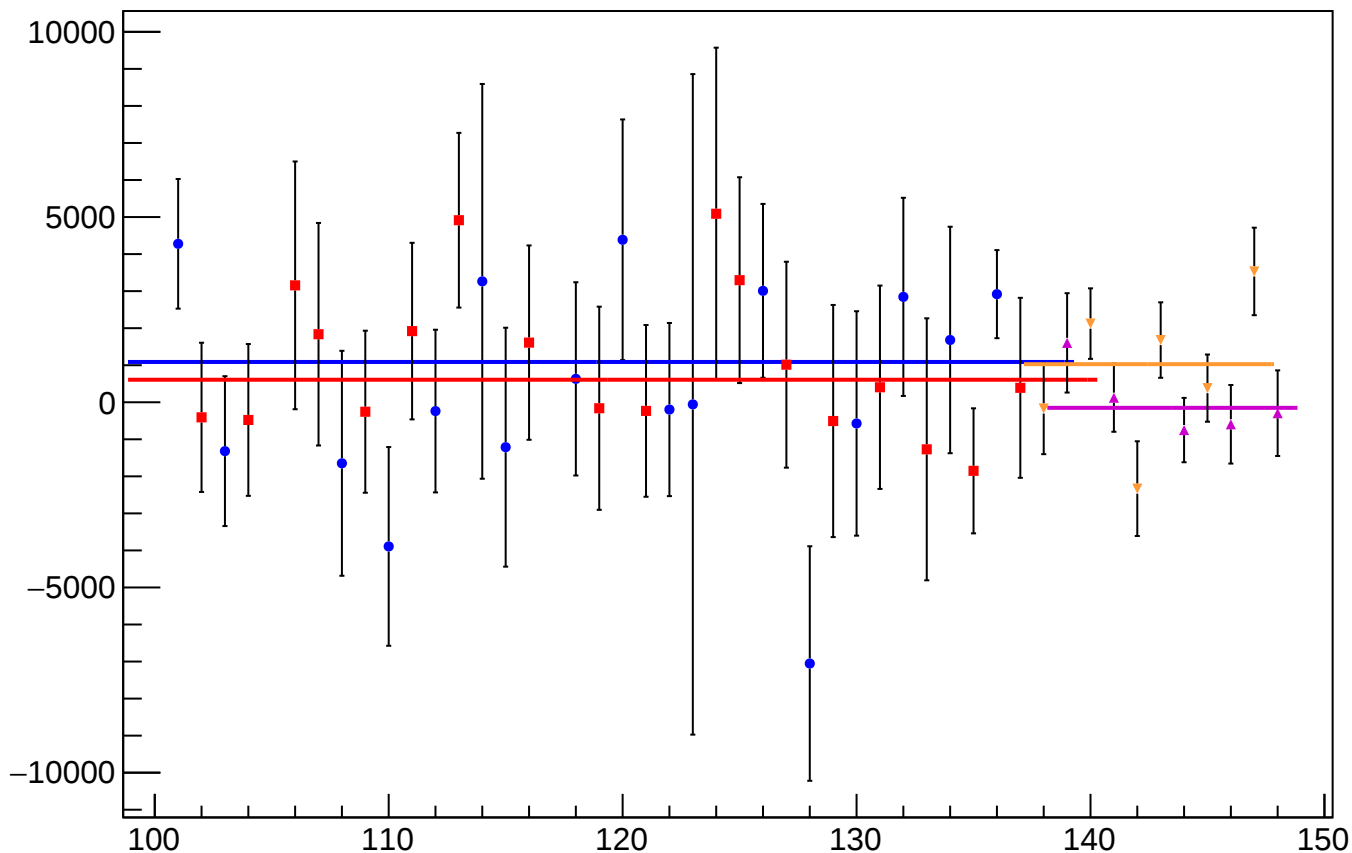
Left In: 923.266 $\pm$ 0.326  $\chi^2/\text{NDF}$ : 172965.3/4

+ sign 1095.008 $\pm$ 0.246  $\chi^2/\text{NDF}$ : 2019733.9/22

All: 1125.040 $\pm$ 0.178  $\chi^2/\text{NDF}$ : 4070796.1/45

- sign 1157.836 $\pm$ 0.258  $\chi^2/\text{NDF}$ : 2019992.5/22

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 1028.159 $\pm$ 435.648  $\chi^2$ /NDF:14.6/5

Right Out: 607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

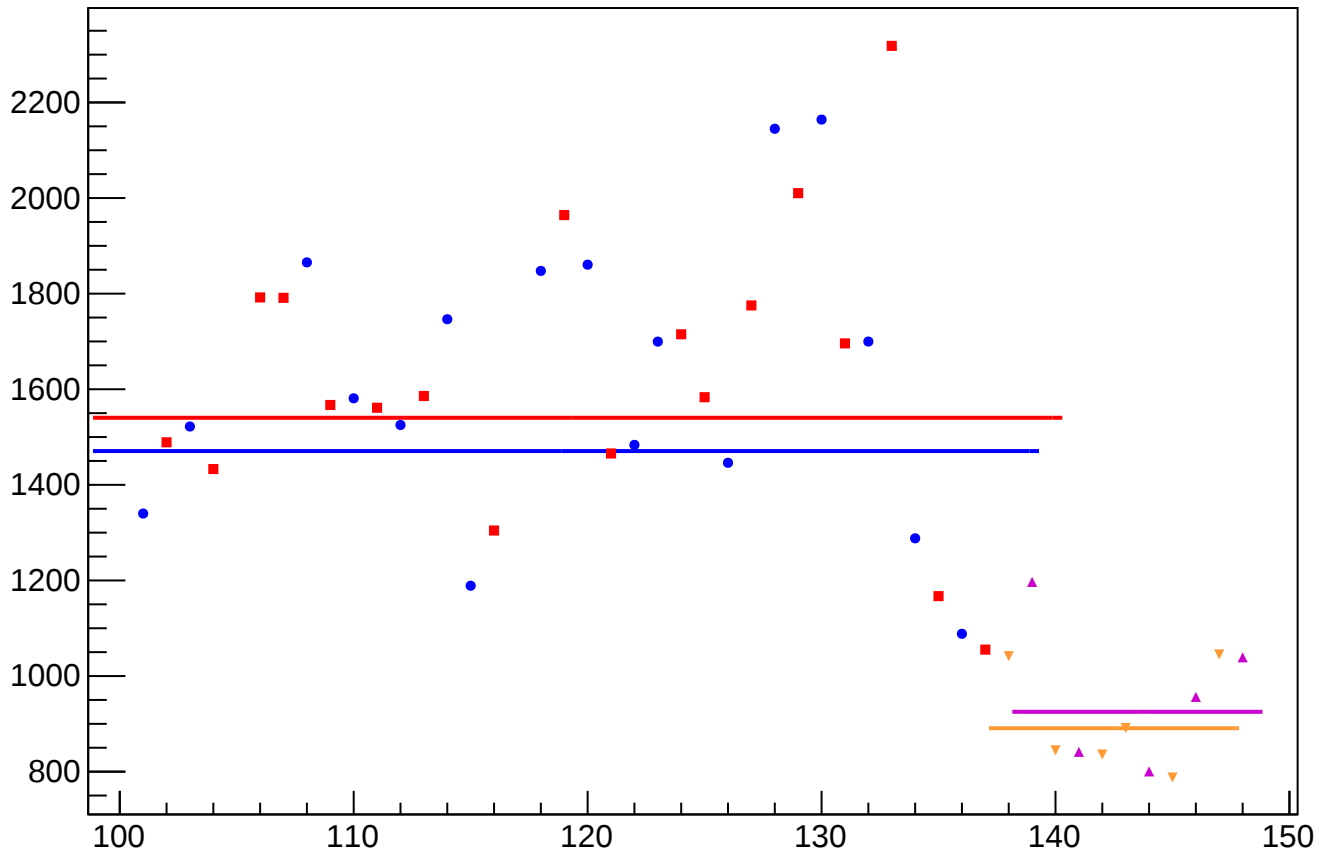
Left In: -150.467 $\pm$ 461.348  $\chi^2$ /NDF:2.5/4

+ sign 1049.580 $\pm$ 349.048  $\chi^2$ /NDF: 36.4/22

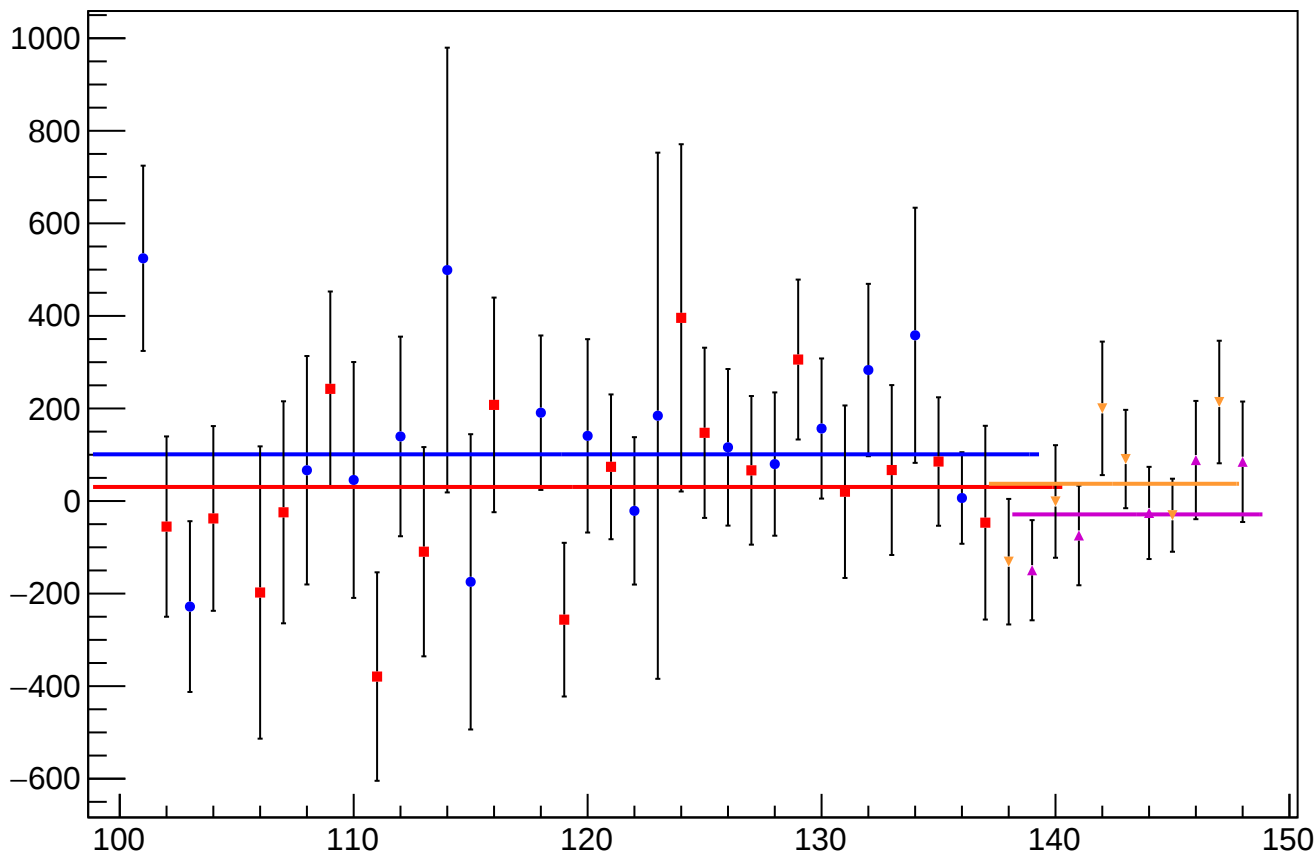
All: 611.851 $\pm$ 251.865  $\chi^2$ /NDF: 53.1/45

- sign 136.360 $\pm$ 363.792  $\chi^2$ /NDF: 13.4/22

# asym\_sam\_24\_68\_dd\_rms vs Slug



# 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: 37.287 $\pm$ 45.826  $\chi^2/\text{NDF}$ : 5.7/5

Right Out: 30.411 $\pm$ 45.710  $\chi^2/\text{NDF}$ : 13.5/17

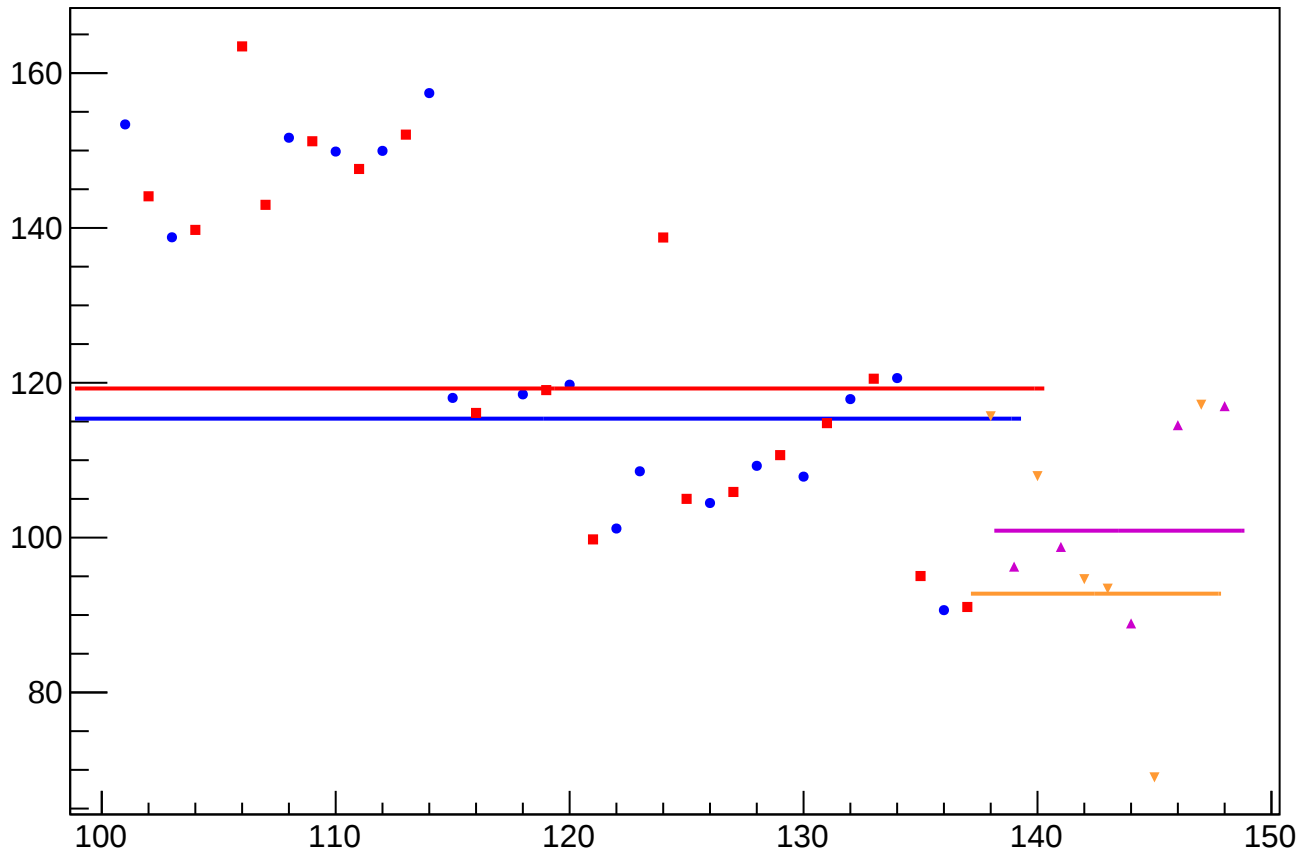
Left In: -28.874 $\pm$ 50.459  $\chi^2/\text{NDF}$ : 3.0/4

+ sign 69.481 $\pm$ 32.210  $\chi^2/\text{NDF}$ : 19.7/22

All: 38.243 $\pm$ 23.343  $\chi^2/\text{NDF}$ : 39.0/45

- sign 3.689 $\pm$ 33.876  $\chi^2/\text{NDF}$ : 17.3/22

# dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 92.759 $\pm$ 0.032  $\chi^2$ /NDF:337372.0/5

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

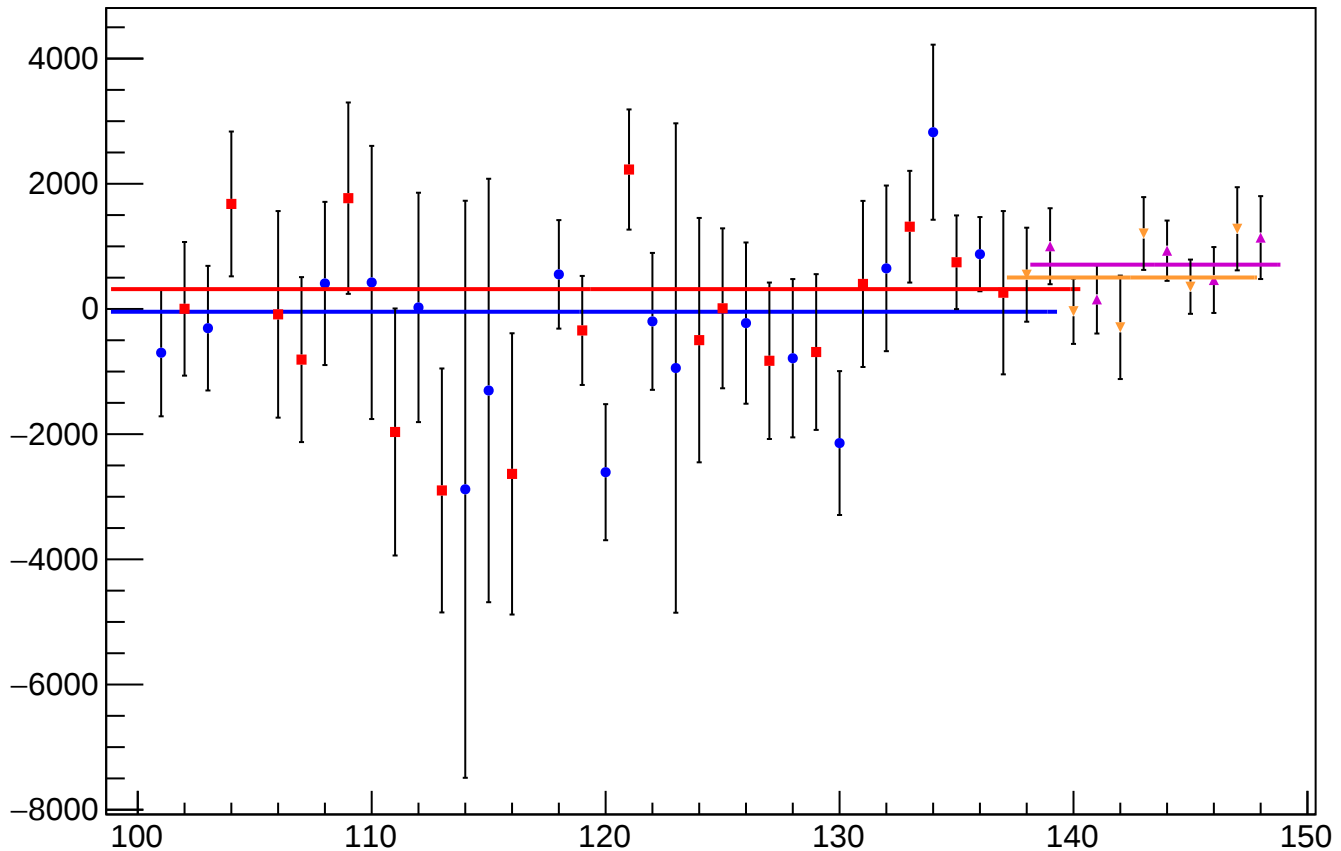
Left In: 100.895 $\pm$ 0.036  $\chi^2$ /NDF:86678.3/4

+ sign 104.197 $\pm$ 0.023  $\chi^2$ /NDF: 995002.2/22

All: 107.420 $\pm$ 0.017  $\chi^2$ /NDF: 1667710.1/45

- sign 110.984 $\pm$ 0.024  $\chi^2$ /NDF: 630555.1/22

# 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: 502.776 $\pm$ 239.380  $\chi^2/\text{NDF}$ : 4.9/5

Right Out: 316.976 $\pm$ 283.113  $\chi^2/\text{NDF}$ : 16.8/17

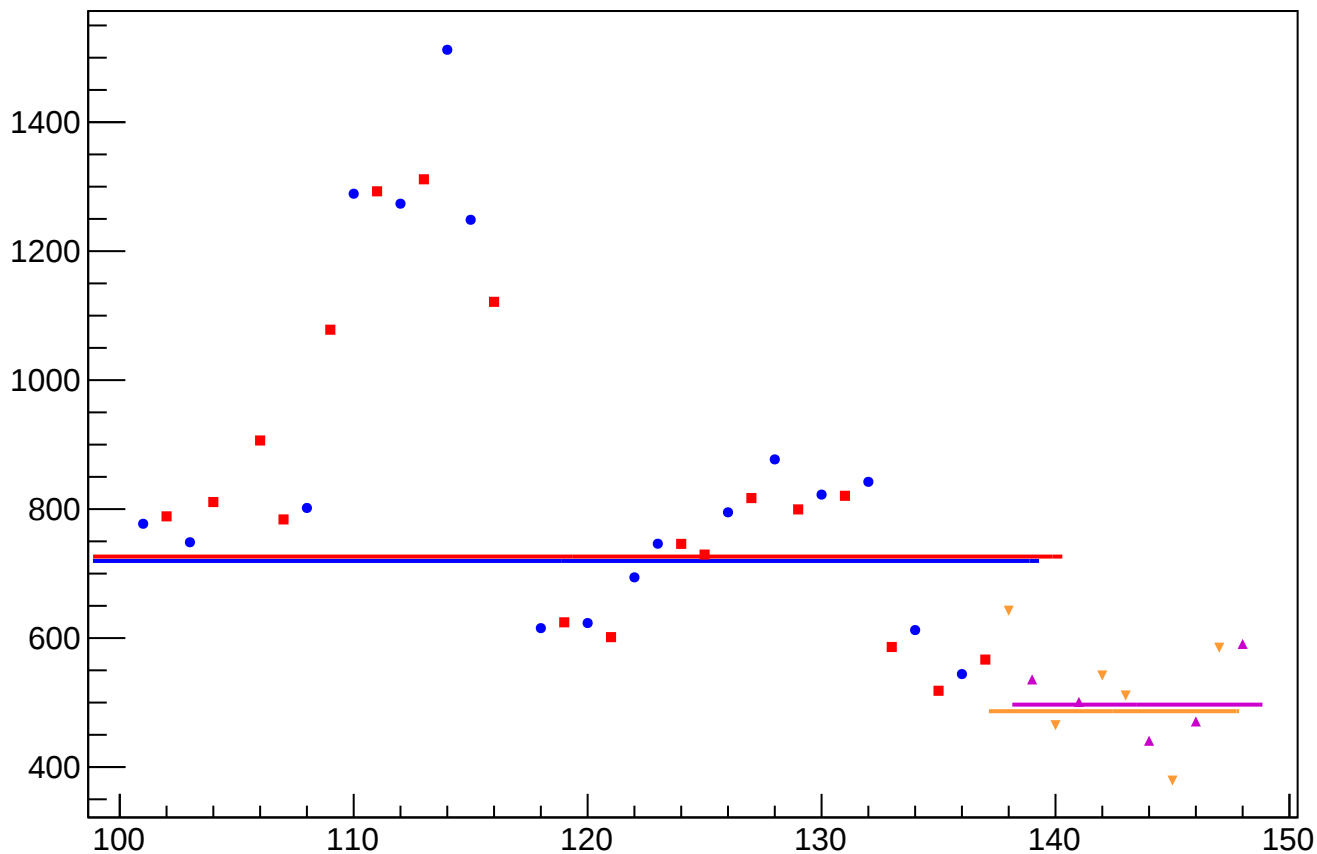
Left In: 707.857 $\pm$ 247.891  $\chi^2/\text{NDF}$ : 2.1/4

+ sign 277.563 $\pm$ 183.641  $\chi^2/\text{NDF}$ : 25.0/22

All: 405.882 $\pm$ 130.854  $\chi^2/\text{NDF}$ : 45.9/45

- sign 538.230 $\pm$ 186.502  $\chi^2/\text{NDF}$ : 20.0/22

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 486.601 $\pm$ 0.169  $\chi^2$ /NDF: 269389.9/5

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

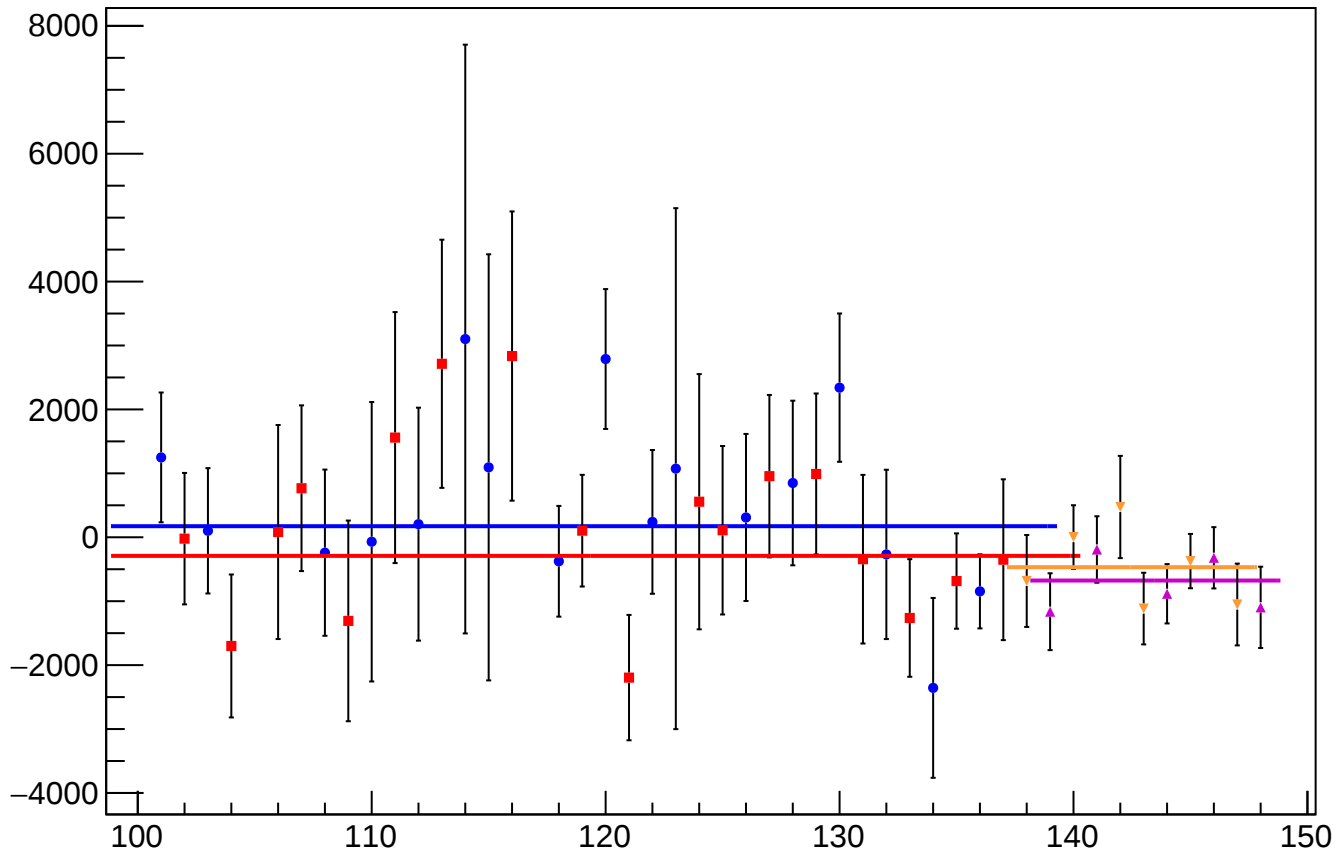
Left In: 496.801 $\pm$ 0.175  $\chi^2$ /NDF: 80758.7/4

+ sign 582.477 $\pm$ 0.130  $\chi^2$ /NDF: 1796041.1/22

All: 589.349 $\pm$ 0.093  $\chi^2$ /NDF: 3508015.7/45

- sign 596.436 $\pm$ 0.132  $\chi^2$ /NDF: 1706285.8/22

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In:  $173.182 \pm 285.672$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $-467.960 \pm 231.269$   $\chi^2/\text{NDF}$ : 4.6/5

Right Out:  $-290.799 \pm 283.545$   $\chi^2/\text{NDF}$ : 15.6/17

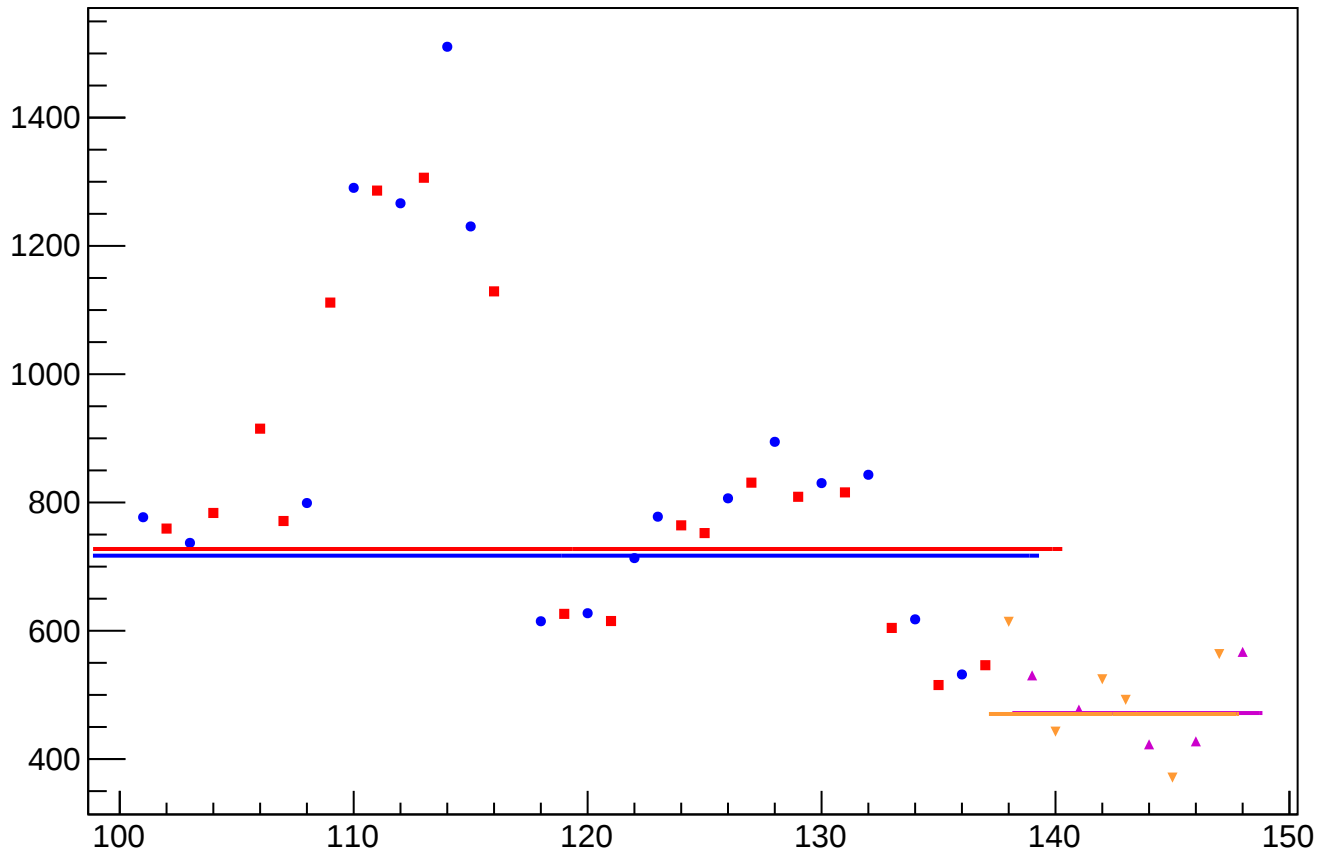
Left In:  $-676.790 \pm 236.152$   $\chi^2/\text{NDF}$ : 2.7/4

+ sign  $-214.124 \pm 179.749$   $\chi^2/\text{NDF}$ : 25.7/22

All:  $-364.972 \pm 127.702$   $\chi^2/\text{NDF}$ : 46.6/45

- sign  $-518.705 \pm 181.460$   $\chi^2/\text{NDF}$ : 19.4/22

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.083+/-0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 470.268+/-0.164  $\chi^2/\text{NDF}$ : 249830.7/5

Right Out: 727.490+/-0.200  $\chi^2/\text{NDF}$ : 881036.5/17

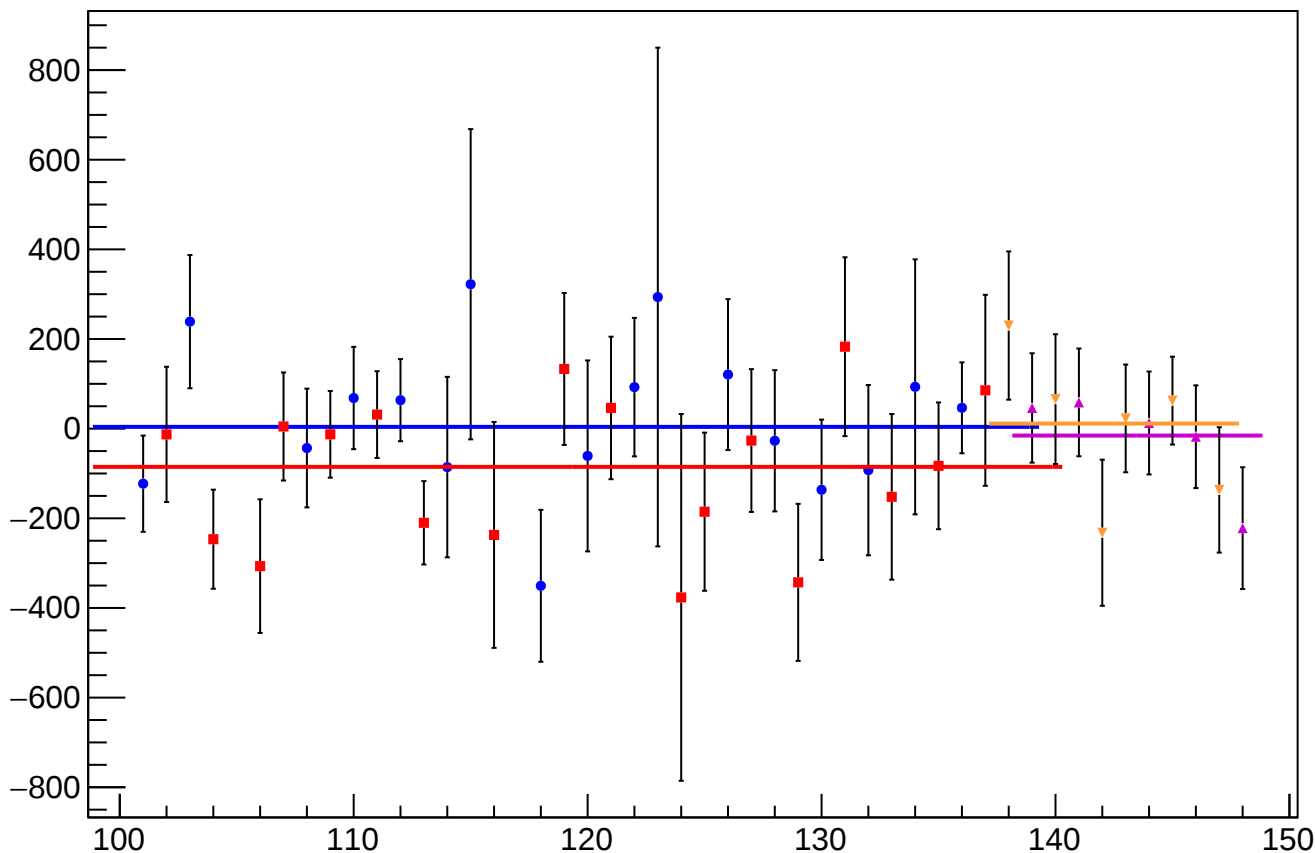
Left In: 471.751+/-0.167  $\chi^2/\text{NDF}$ : 103271.3/4

+ sign 567.985+/-0.127  $\chi^2/\text{NDF}$ : 1934133.5/22

All: 572.197+/-0.090  $\chi^2/\text{NDF}$ : 3881289.3/45

- sign 576.490+/-0.128  $\chi^2/\text{NDF}$ : 1944937.9/22

# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}: 12.7/16$

Left Out:  $11.341 \pm 53.734$   $\chi^2/\text{NDF}: 5.5/5$

Right Out:  $-85.205 \pm 33.413$   $\chi^2/\text{NDF}: 17.4/17$

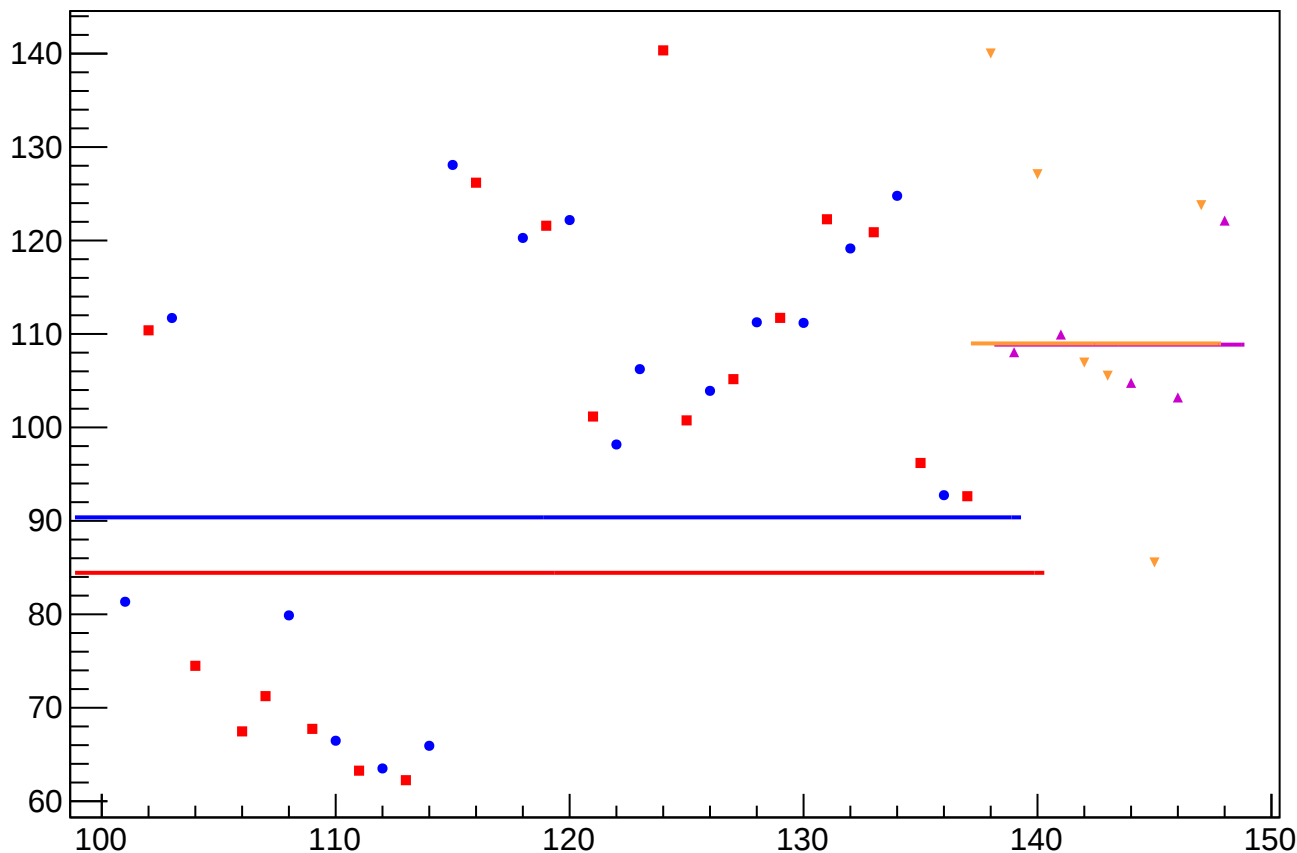
Left In:  $-15.380 \pm 54.018$   $\chi^2/\text{NDF}: 3.0/4$

+ sign  $6.277 \pm 29.880$   $\chi^2/\text{NDF}: 18.3/22$

All:  $-31.613 \pm 20.591$   $\chi^2/\text{NDF}: 42.9/45$

- sign  $-65.883 \pm 28.416$   $\chi^2/\text{NDF}: 21.6/22$

# dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 90.375+/-0.025  $\chi^2/\text{NDF}$ : 654139.7/16

Left Out: 108.985+/-0.038  $\chi^2/\text{NDF}$ : 240309.8/5

Right Out: 84.442+/-0.024  $\chi^2/\text{NDF}$ : 870835.6/17

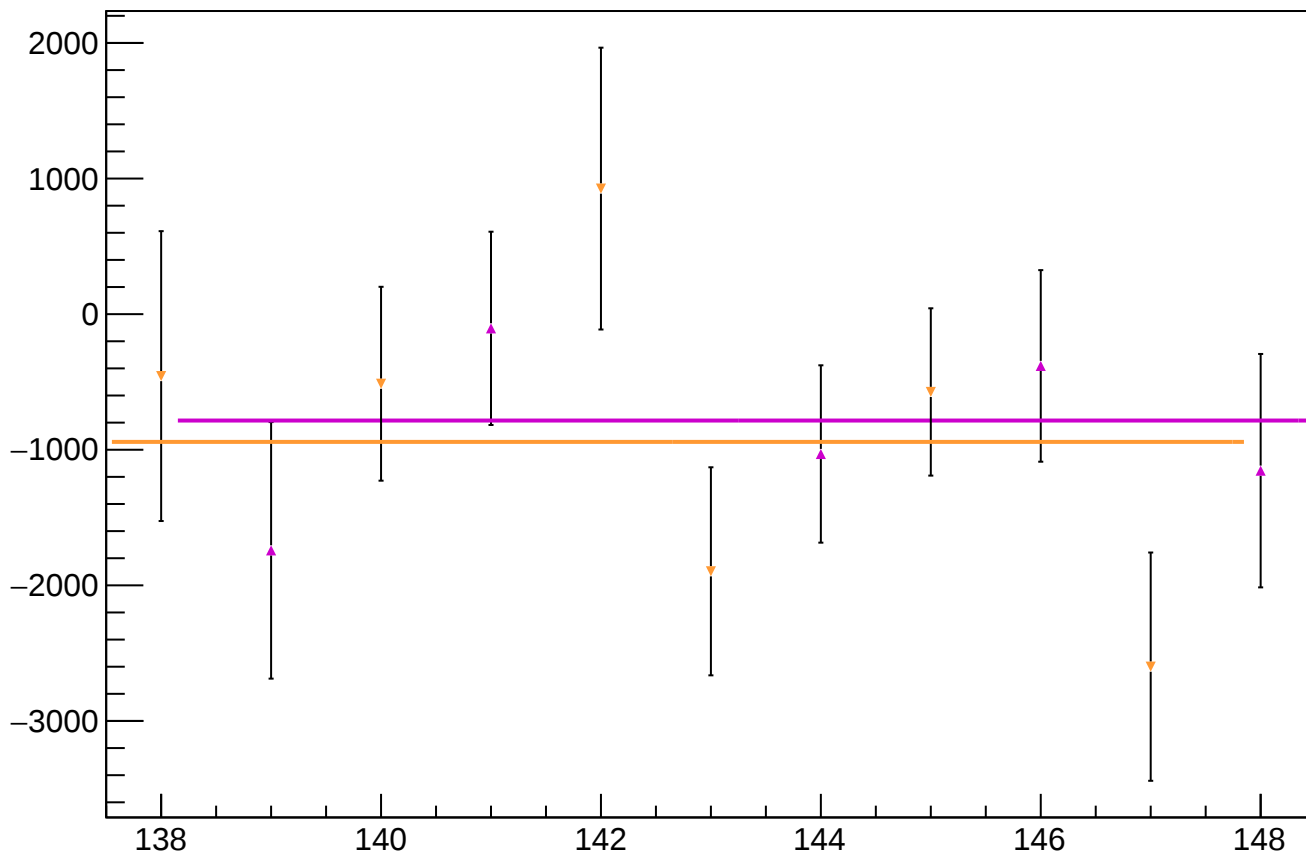
Left In: 108.858+/-0.038  $\chi^2/\text{NDF}$ : 26752.0/4

+ sign 96.130+/-0.021  $\chi^2/\text{NDF}$ : 1060171.7/22

All: 93.540+/-0.015  $\chi^2/\text{NDF}$ : 2281887.3/45

- sign 91.198+/-0.020  $\chi^2/\text{NDF}$ : 1193113.4/22

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -942.033+/-324.521  $\chi^2/\text{NDF}$ : 9.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

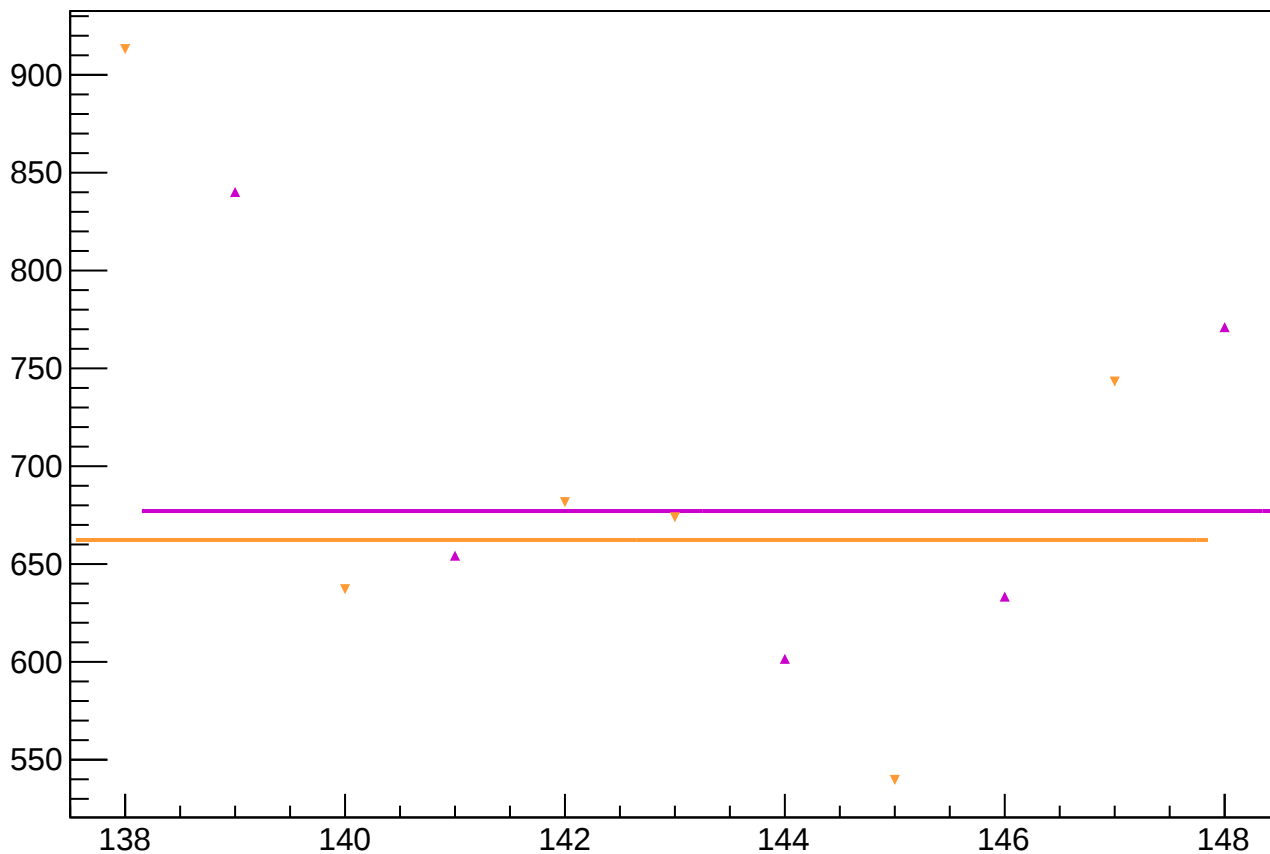
Left In: -784.570+/-337.521  $\chi^2/\text{NDF}$ : 2.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -866.392+/-233.932  $\chi^2/\text{NDF}$ : 12.3/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 662.299+/-0.229  $\chi^2/\text{NDF}$ : 211299.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

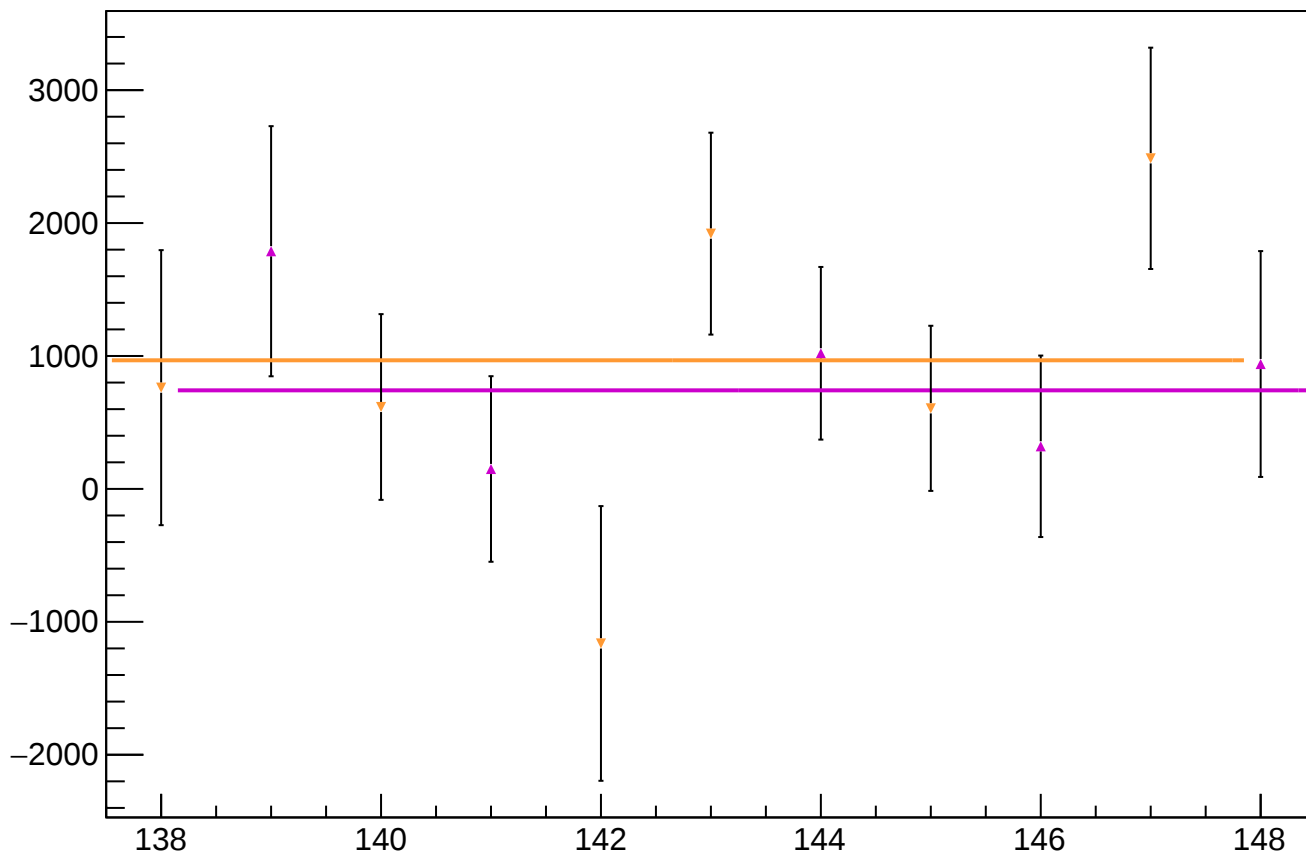
Left In: 677.098+/-0.239  $\chi^2/\text{NDF}$ : 119647.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 669.408+/-0.165  $\chi^2/\text{NDF}$ : 332944.8/10

- 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: 967.562+/-321.281  $\chi^2/\text{NDF}$ : 9.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

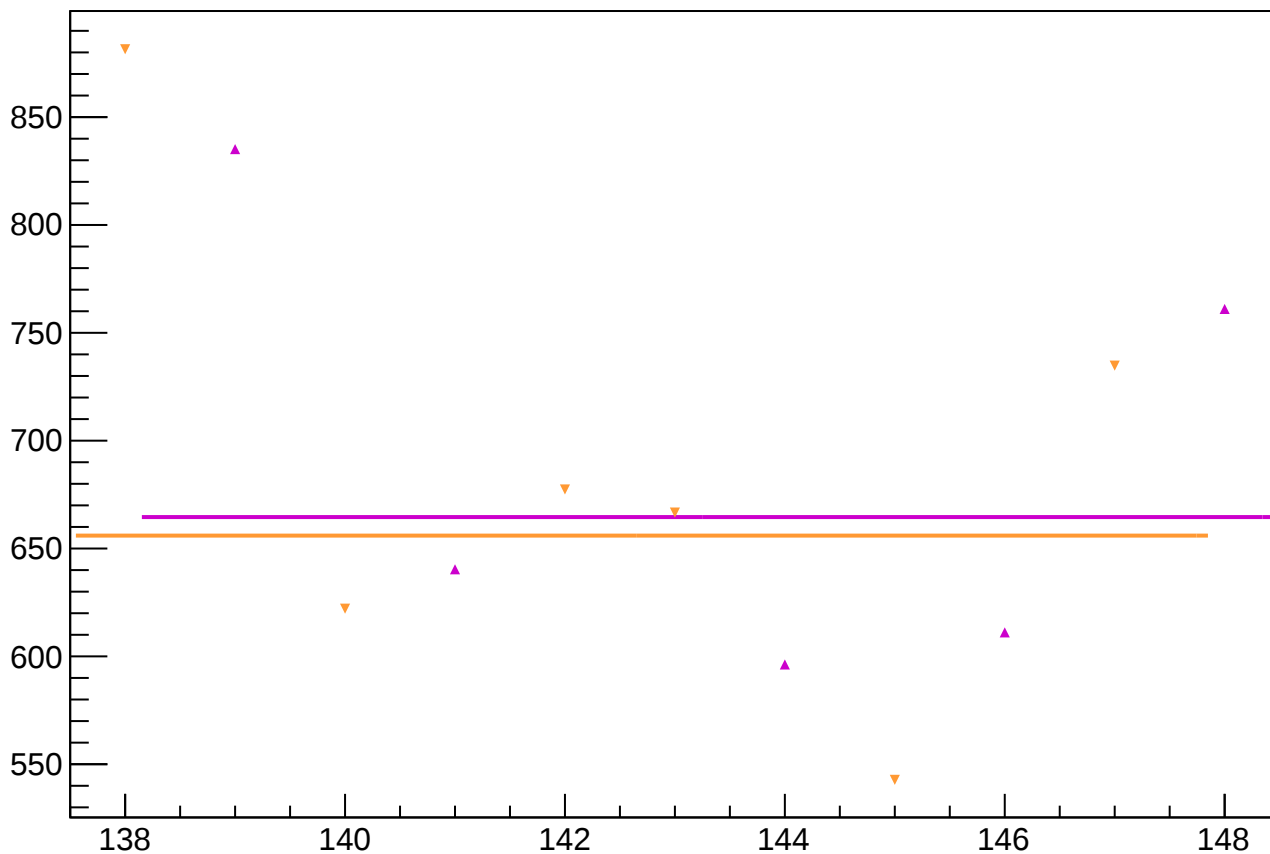
Left In: 741.526+/-331.775  $\chi^2/\text{NDF}$ : 2.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 858.175+/-230.801  $\chi^2/\text{NDF}$ : 12.6/10

- 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: 655.988+/-0.227  $\chi^2/\text{NDF}$ :185347.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

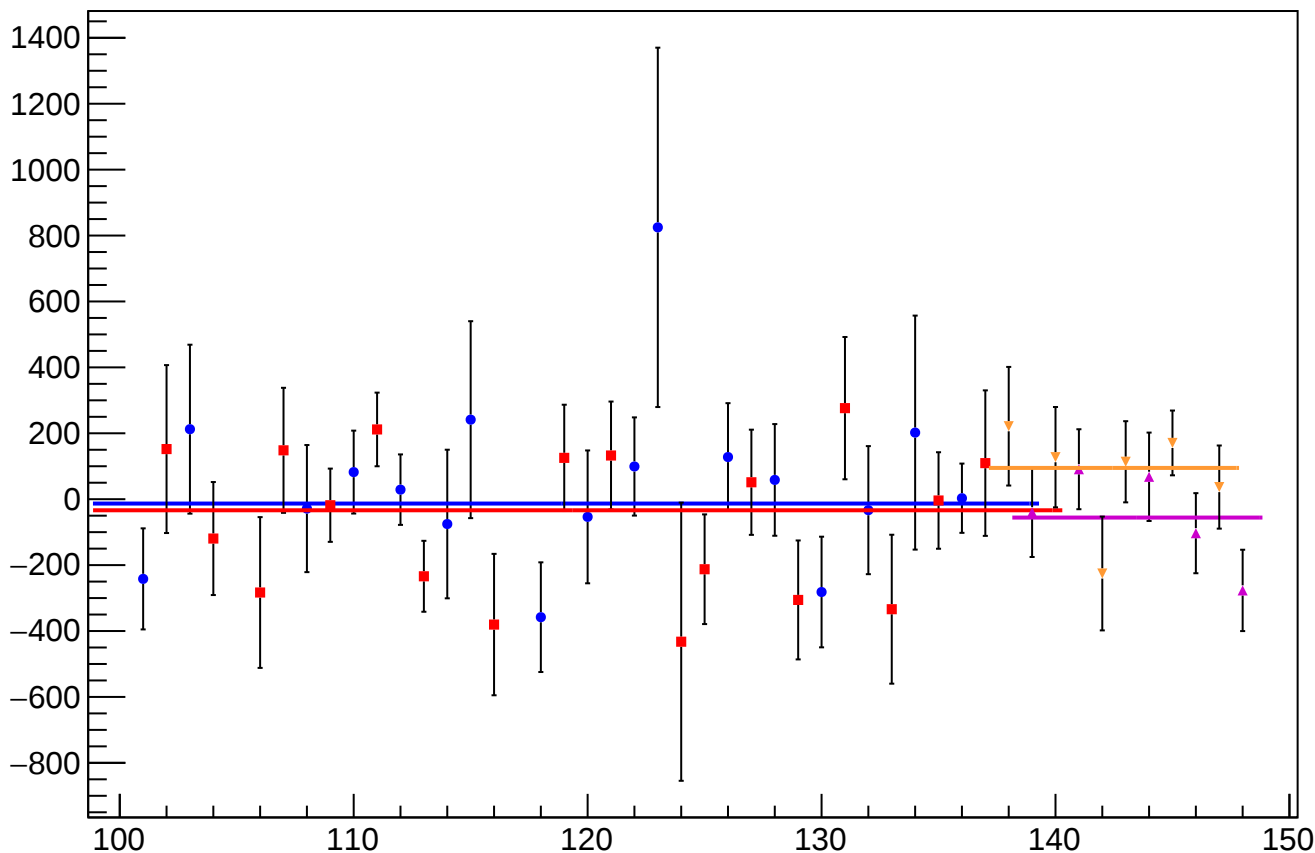
Left In: 664.581+/-0.235  $\chi^2/\text{NDF}$ :128367.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 660.146+/-0.163  $\chi^2/\text{NDF}$ : 314407.1/10

- 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:  $94.896 \pm 54.241$   $\chi^2/\text{NDF}: 4.8/5$

Right Out:  $-33.637 \pm 38.891$   $\chi^2/\text{NDF}: 24.7/17$

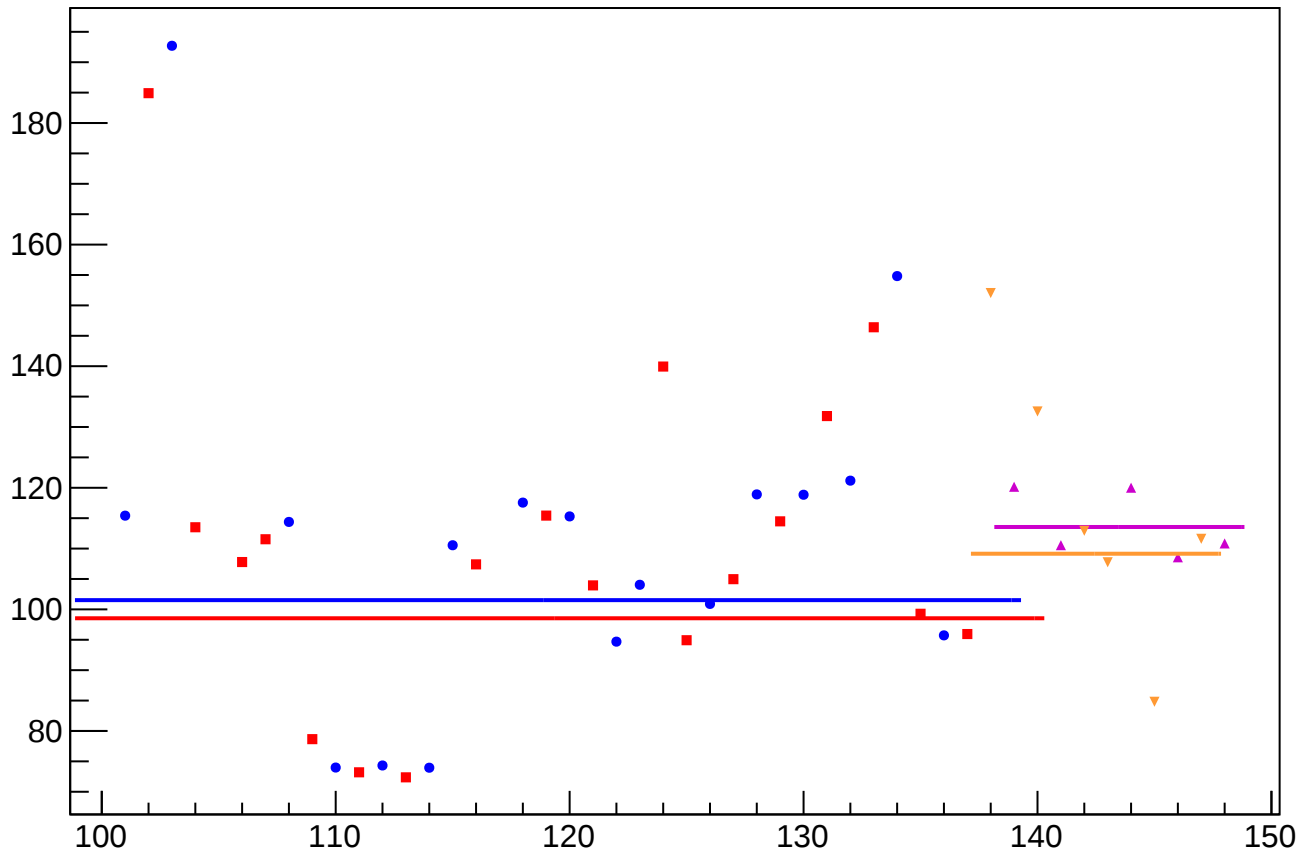
Left In:  $-55.744 \pm 56.691$   $\chi^2/\text{NDF}: 5.7/4$

+ sign  $25.549 \pm 32.480$   $\chi^2/\text{NDF}: 23.0/22$

All:  $-8.002 \pm 22.820$   $\chi^2/\text{NDF}: 55.6/45$

- sign  $-40.712 \pm 32.070$   $\chi^2/\text{NDF}: 30.5/22$

dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 101.519 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 681713.7/16

Left Out: 109.154 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 285576.2/5

Right Out: 98.537 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 746979.4/17

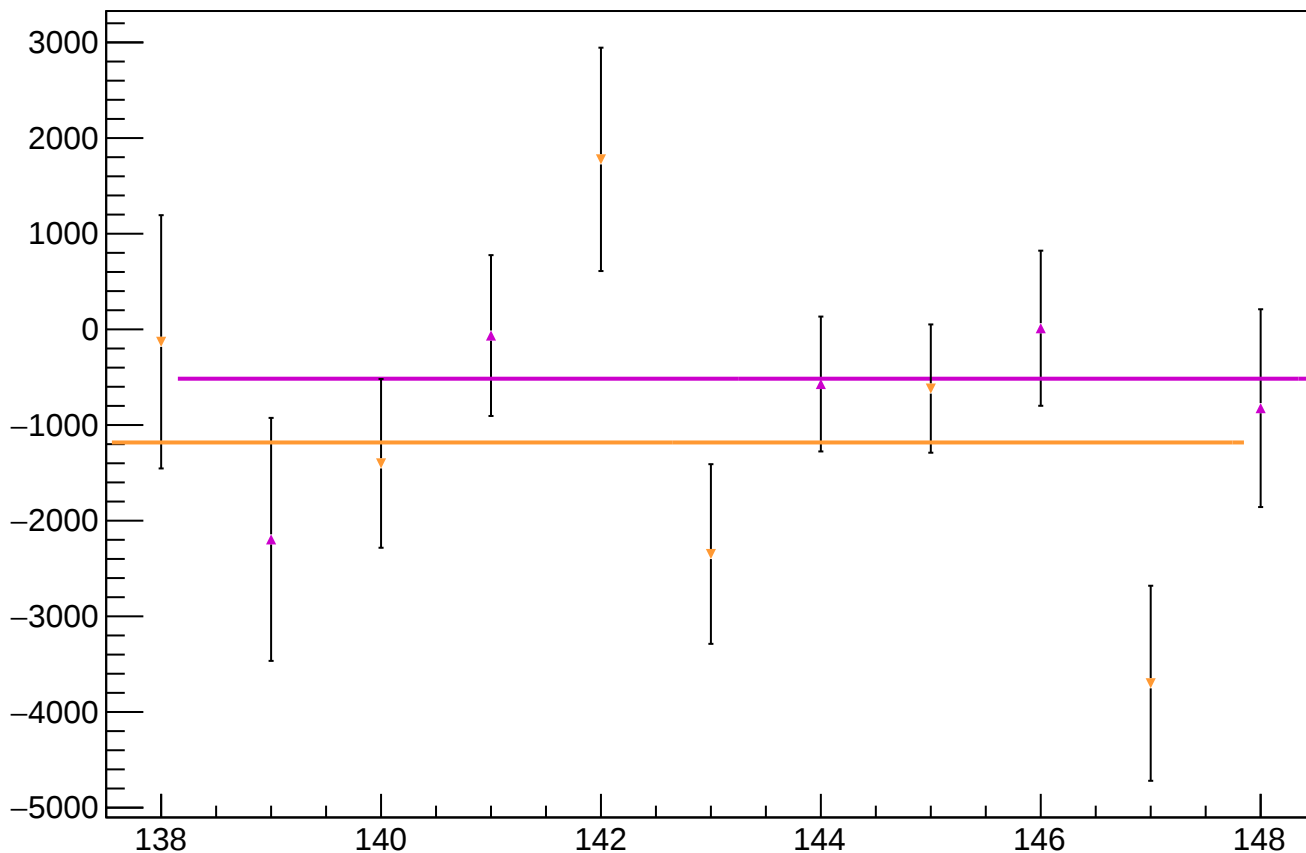
Left In: 113.552 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 14936.7/4

+ sign 104.257 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 992705.2/22

All: 103.793 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 1850828.4/45

- sign 103.342 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 857319.8/22

# asym\_sam\_3748\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1182.367 $\pm$ 380.462  $\chi^2$ /NDF:15.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

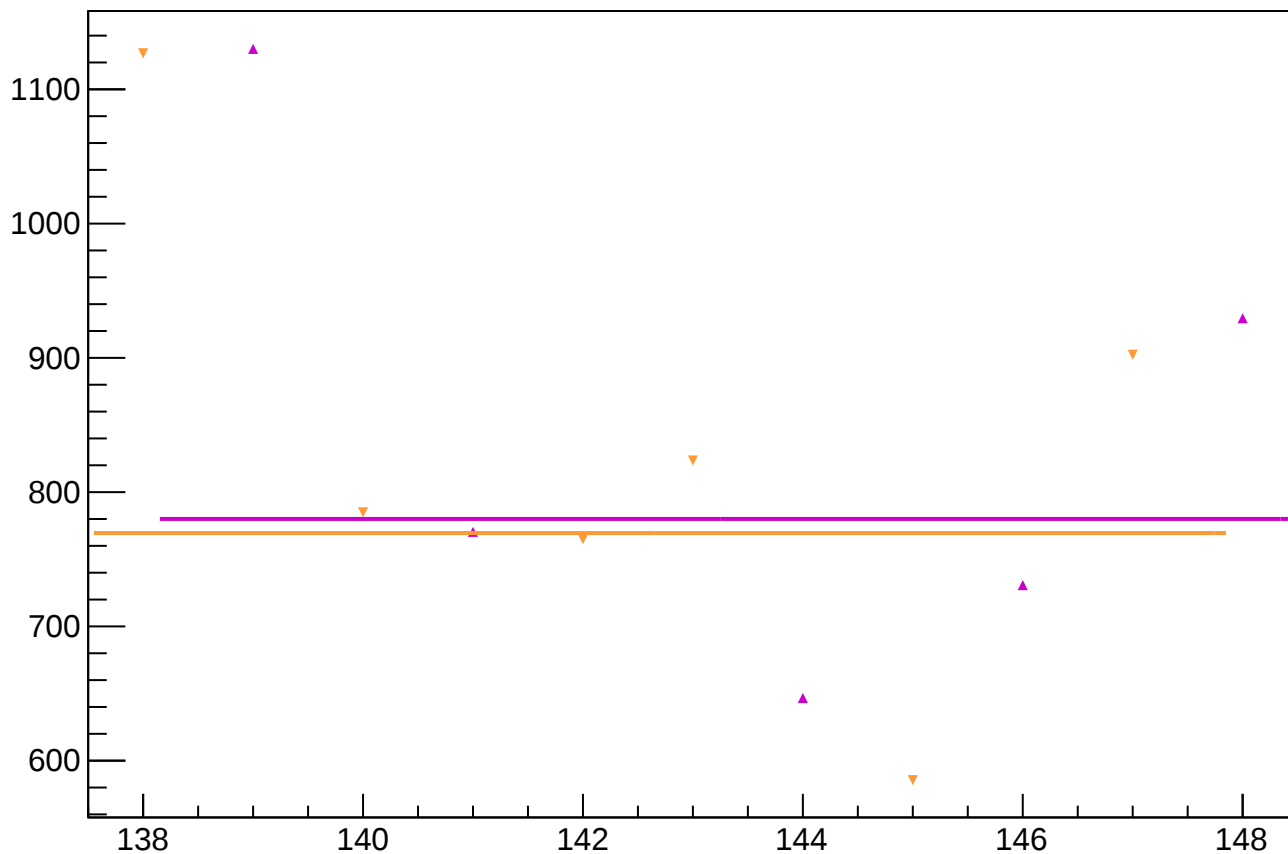
Left In: -515.753 $\pm$ 392.138  $\chi^2$ /NDF:2.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -859.132 $\pm$ 273.062  $\chi^2$ /NDF: 19.5/10

- 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: 769.540+/-0.269  $\chi^2/\text{NDF}$ : 337517.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

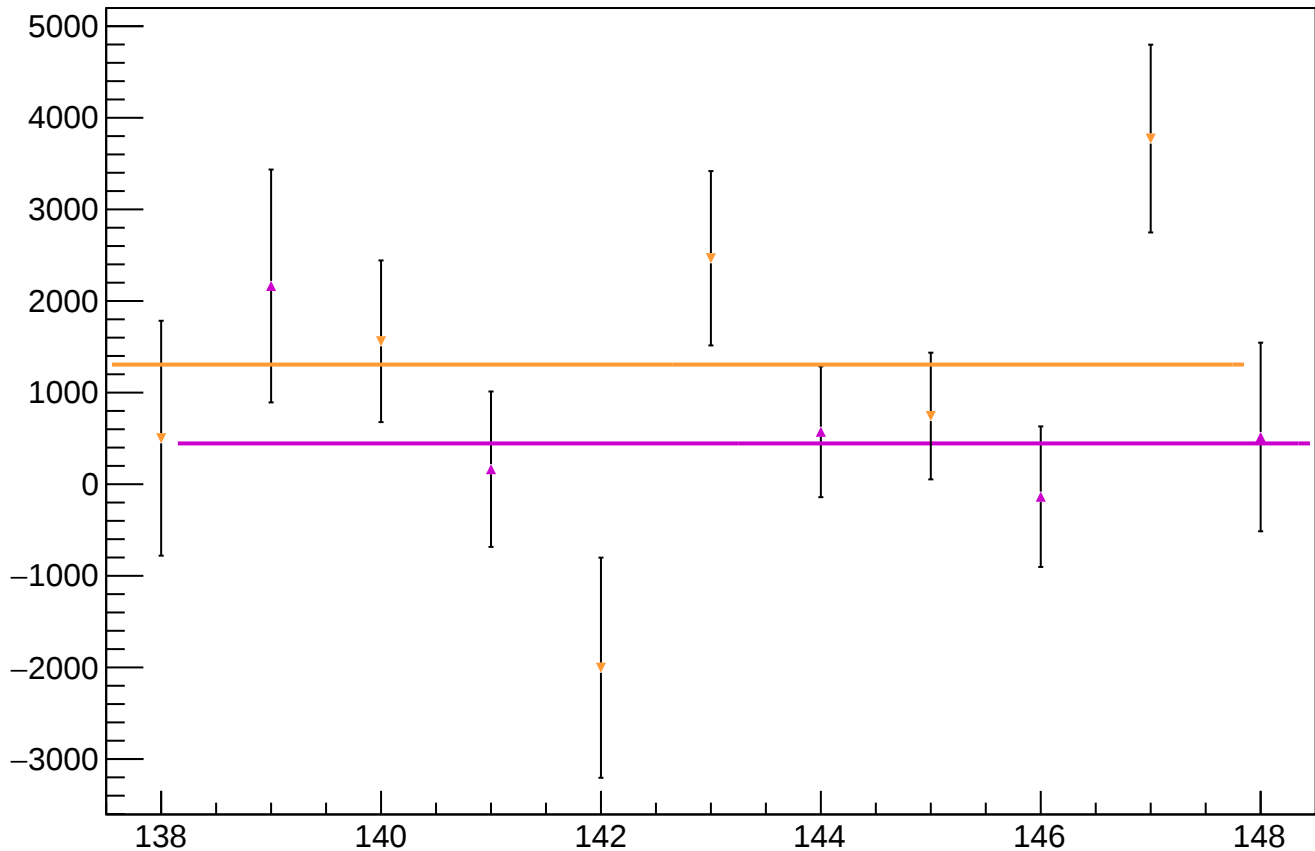
Left In: 780.051+/-0.277  $\chi^2/\text{NDF}$ : 272934.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 774.637+/-0.193  $\chi^2/\text{NDF}$ : 611191.6/10

- 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: 1306.223+/-385.398  $\chi^2/\text{NDF}$ : 16.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

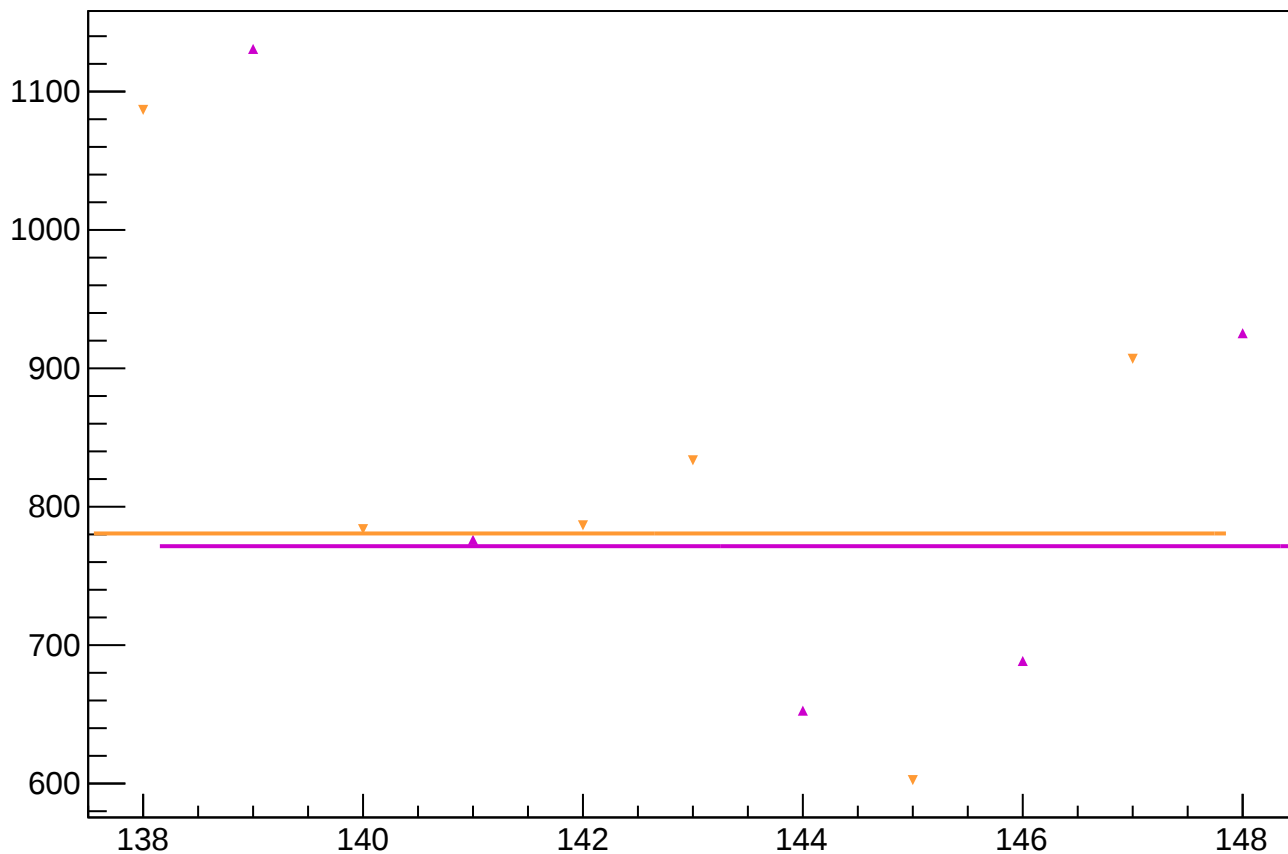
Left In: 445.333+/-388.846  $\chi^2/\text{NDF}$ : 2.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 879.612+/-273.728  $\chi^2/\text{NDF}$ : 21.0/10

- 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: 780.688+/-0.273  $\chi^2/\text{NDF}$ : 283396.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

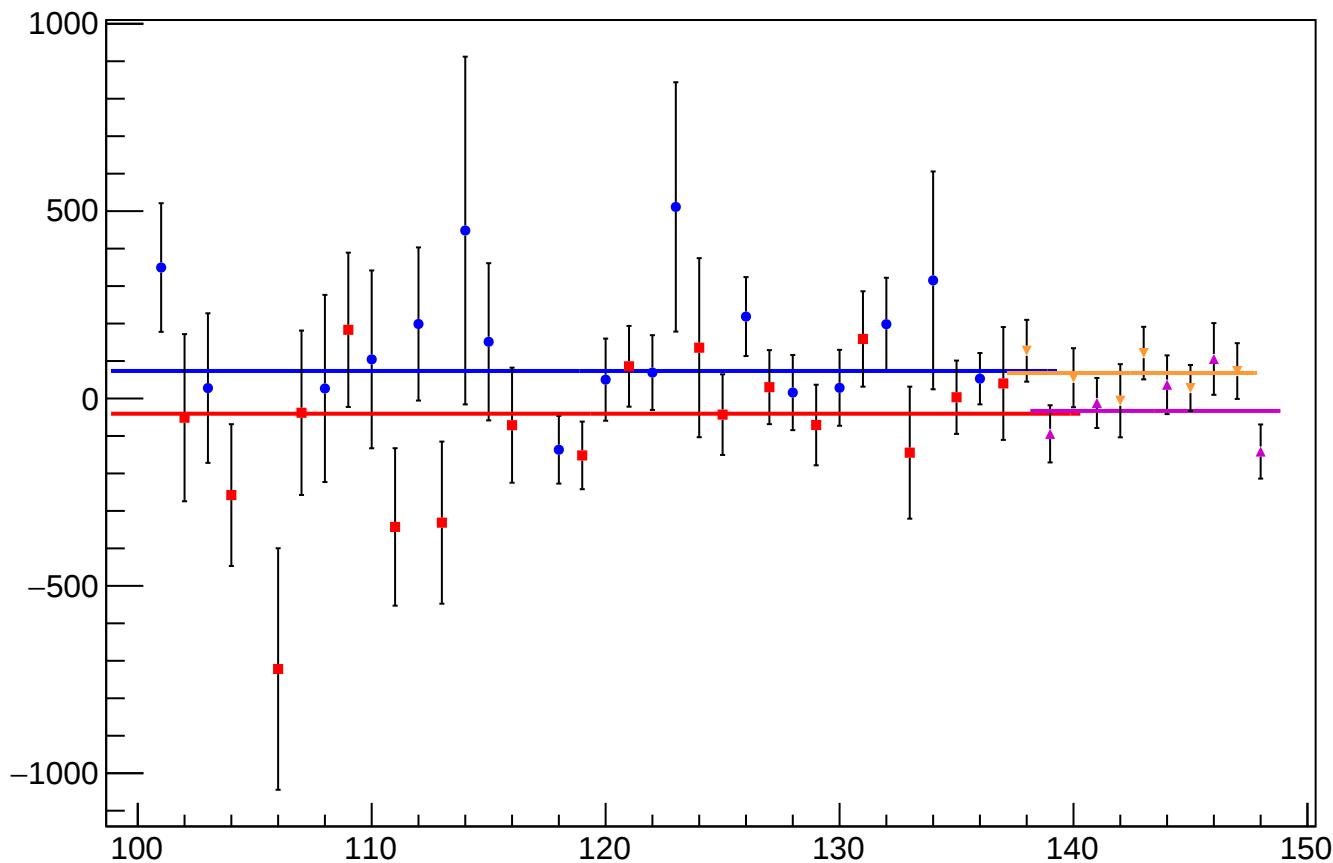
Left In: 771.493+/-0.275  $\chi^2/\text{NDF}$ : 283334.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 776.131+/-0.194  $\chi^2/\text{NDF}$ : 567294.6/10

- 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  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: 68.086 $\pm$ 30.700  $\chi^2/\text{NDF}$ : 2.1/5

Right Out: -40.594 $\pm$ 32.745  $\chi^2/\text{NDF}$ : 18.2/17

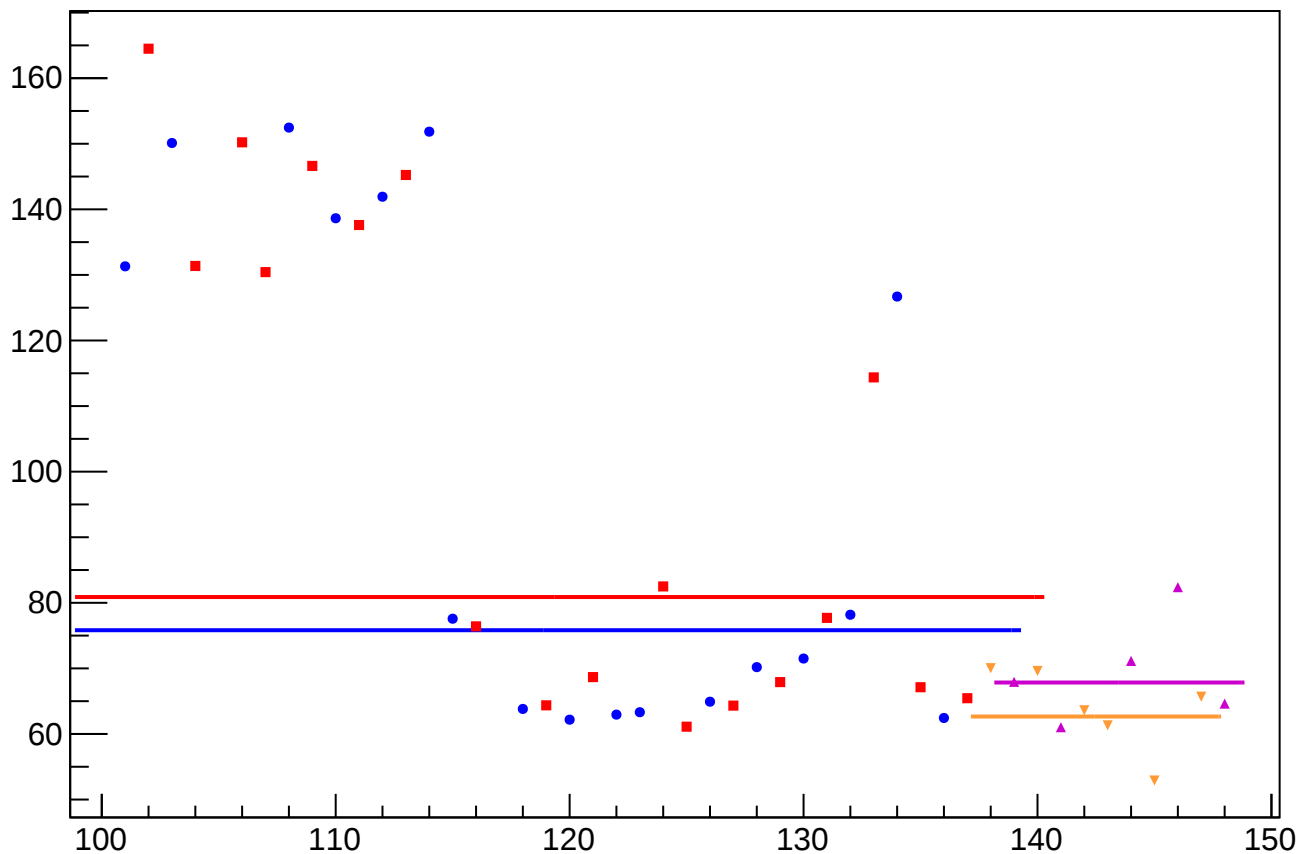
Left In: -33.174 $\pm$ 34.104  $\chi^2/\text{NDF}$ : 5.9/4

+ sign 70.735 $\pm$ 21.835  $\chi^2/\text{NDF}$ : 17.4/22

All: 21.077 $\pm$ 16.034  $\chi^2/\text{NDF}$ : 52.8/45

- sign -37.035 $\pm$ 23.620  $\chi^2/\text{NDF}$ : 24.1/22

dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 75.820 $\pm$ 0.022  $\chi^2$ /NDF: 1349961.8/16

Left Out: 62.661 $\pm$ 0.022  $\chi^2$ /NDF: 86038.5/5

Right Out: 80.881 $\pm$ 0.023  $\chi^2$ /NDF: 1526044.5/17

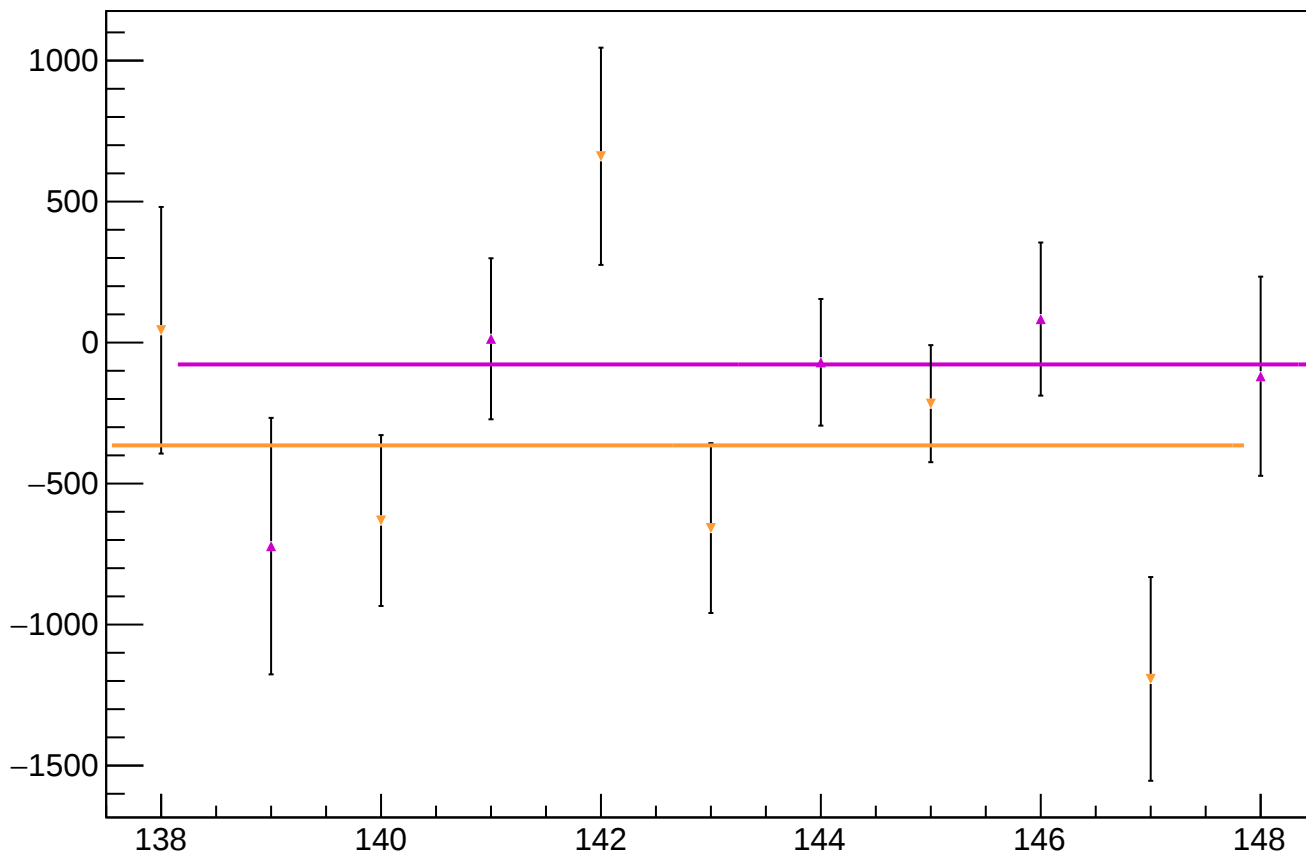
Left In: 67.846 $\pm$ 0.024  $\chi^2$ /NDF: 74502.4/4

+ sign 69.164 $\pm$ 0.015  $\chi^2$ /NDF: 1617568.0/22

All: 71.682 $\pm$ 0.011  $\chi^2$ /NDF: 3427872.7/45

- sign 74.629 $\pm$ 0.017  $\chi^2$ /NDF: 1752573.9/22

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -364.604+/-124.254  $\chi^2/\text{NDF}$ :15.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

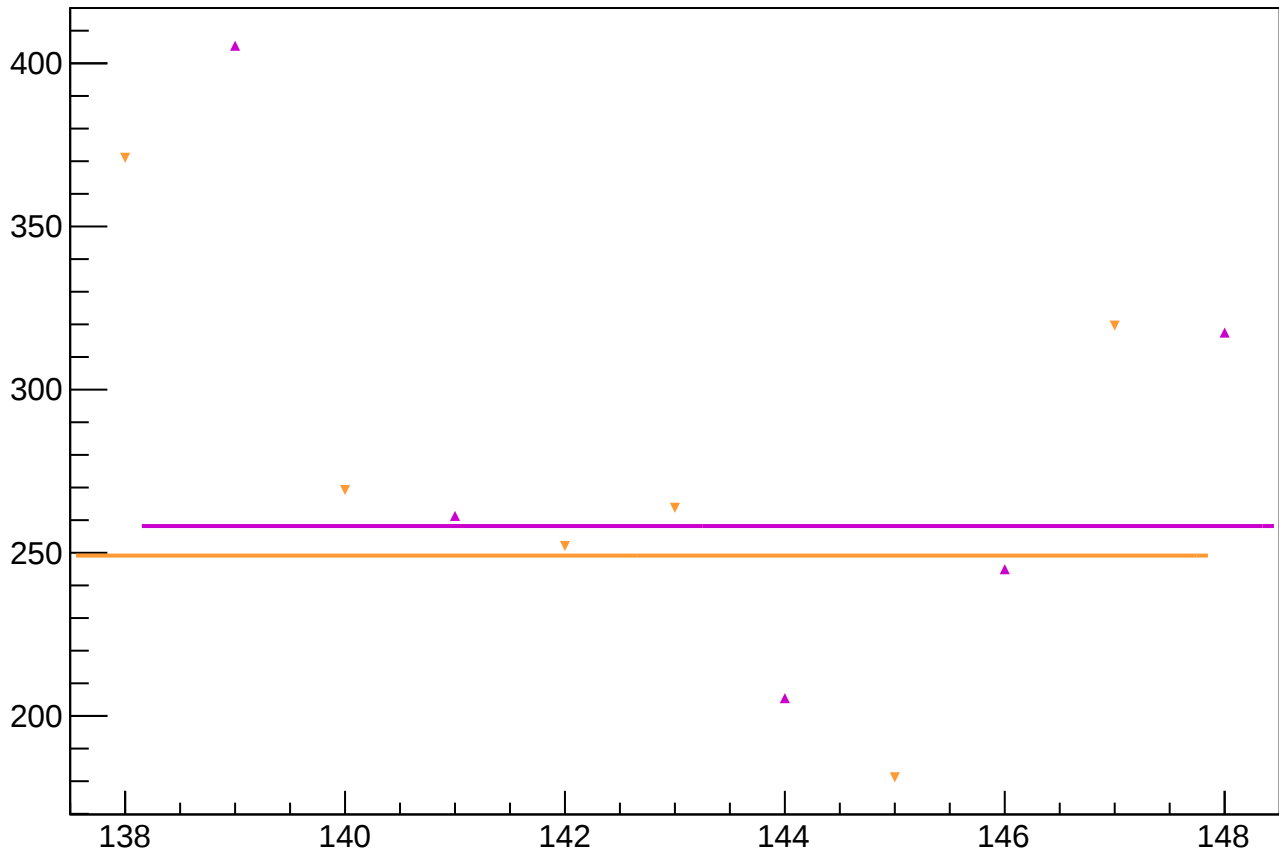
Left In: -77.525+/-130.725  $\chi^2/\text{NDF}$ :2.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -228.346+/-90.062  $\chi^2/\text{NDF}$ : 20.4/10

- 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: 249.143+/-0.088  $\chi^2/\text{NDF}$ : 459631.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

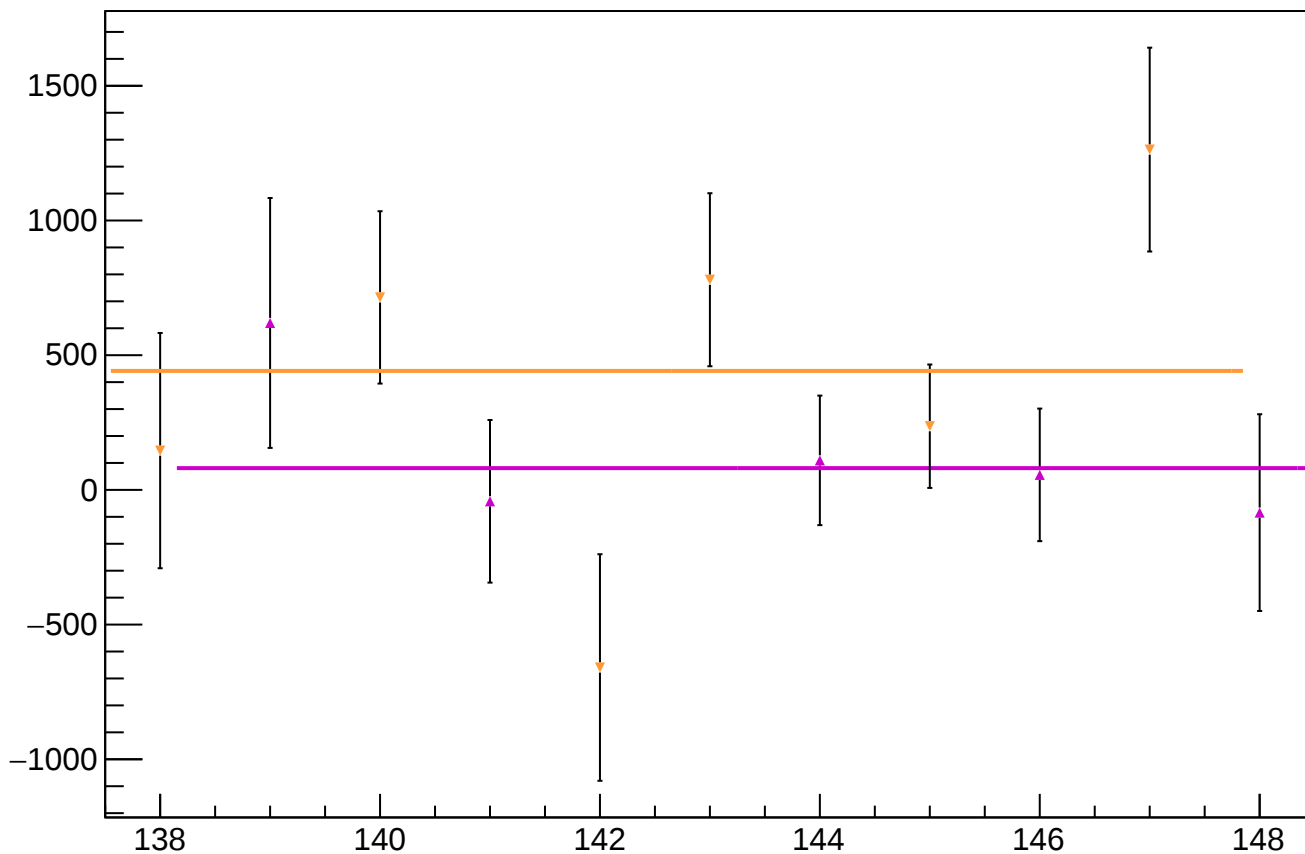
Left In: 258.197+/-0.092  $\chi^2/\text{NDF}$ : 381231.9/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 253.441+/-0.064  $\chi^2/\text{NDF}$ : 845903.5/10

- 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: 441.672+/-133.146  $\chi^2/\text{NDF}$ :14.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

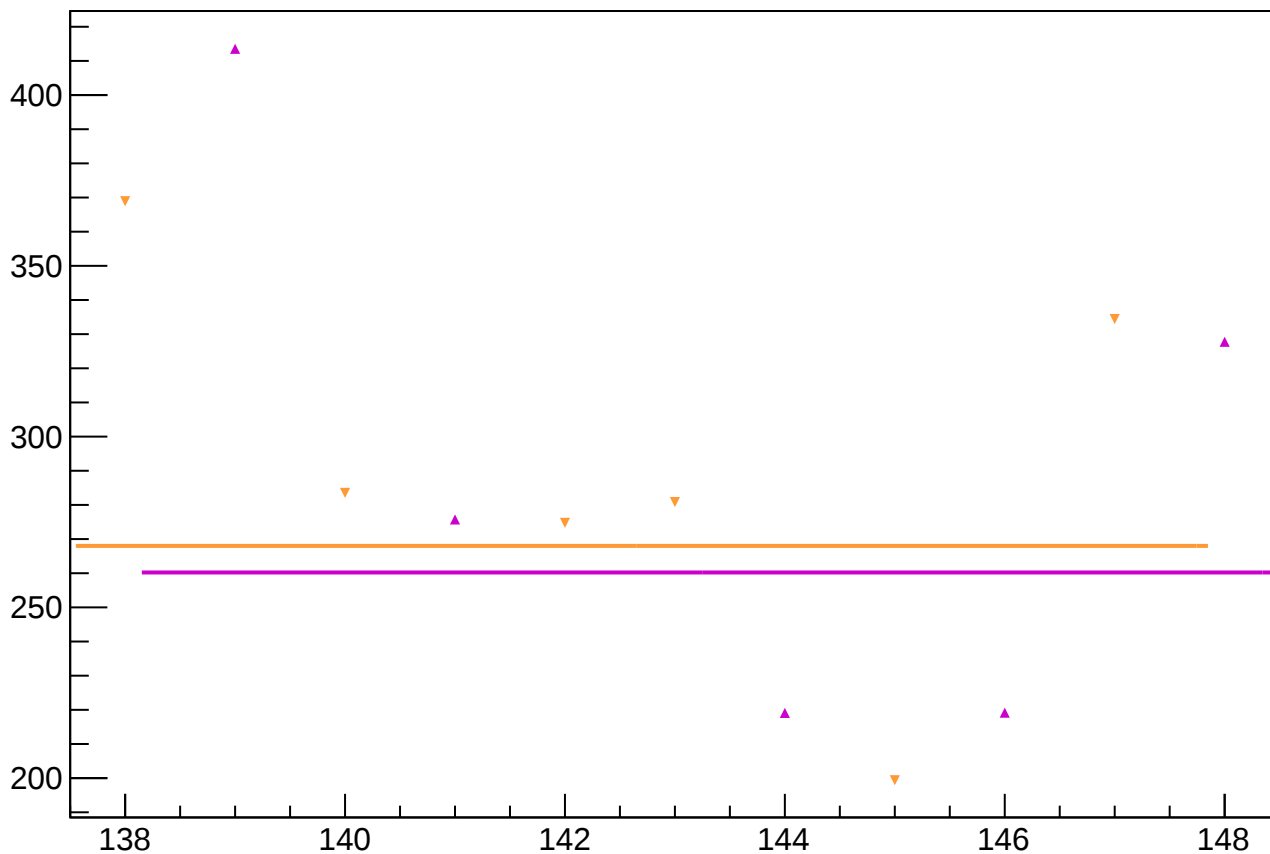
Left In: 80.785+/-132.518  $\chi^2/\text{NDF}$ :1.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 260.376+/-93.926  $\chi^2/\text{NDF}$ : 20.1/10

- 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: 268.003+/-0.094  $\chi^2/\text{NDF}$ : 356313.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

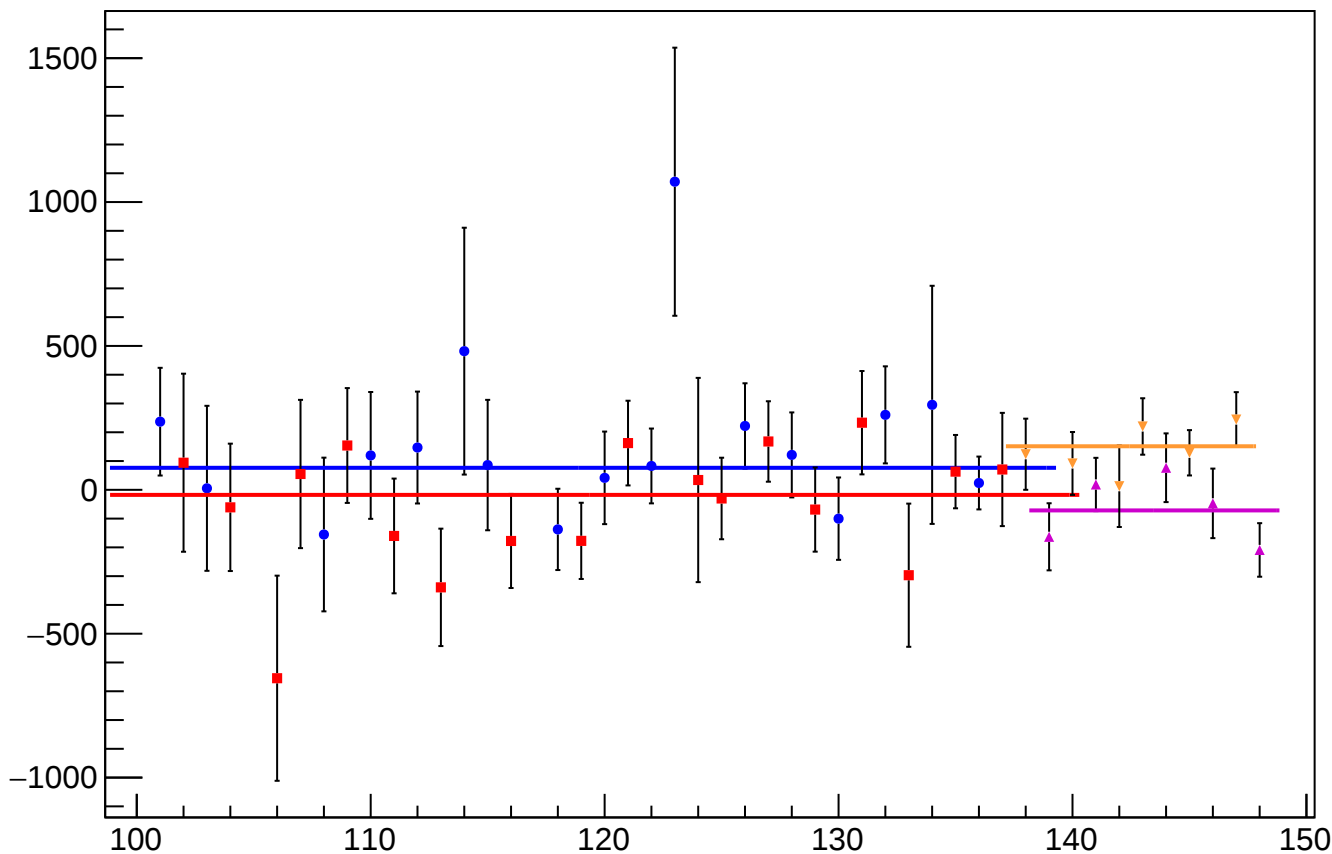
Left In: 260.221+/-0.094  $\chi^2/\text{NDF}$ : 406416.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 264.093+/-0.066  $\chi^2/\text{NDF}$ : 766160.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 76.503 $\pm$ 41.558  $\chi^2$ /NDF: 13.9/16

Left Out: 151.327 $\pm$ 41.734  $\chi^2$ /NDF: 2.8/5

Right Out: -17.605 $\pm$ 42.297  $\chi^2$ /NDF: 16.8/17

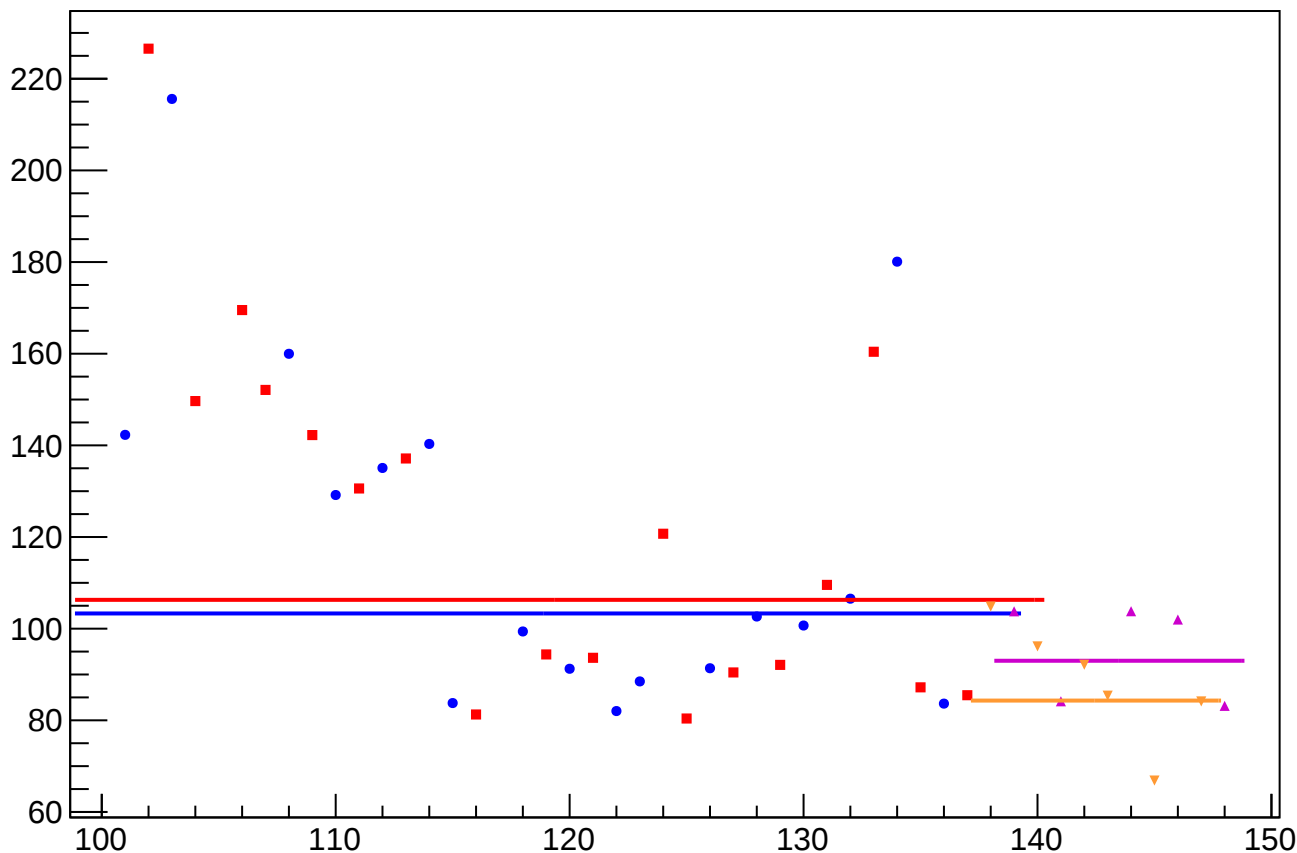
Left In: -71.576 $\pm$ 47.437  $\chi^2$ /NDF: 5.3/4

+ sign 113.757 $\pm$ 29.448  $\chi^2$ /NDF: 18.3/22

All: 41.518 $\pm$ 21.534  $\chi^2$ /NDF: 54.1/45

- sign -41.509 $\pm$ 31.570  $\chi^2$ /NDF: 22.9/22

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 103.318 +/- 0.029  $\chi^2/\text{NDF}$ : 837801.7/16

Left Out: 84.309 +/- 0.030  $\chi^2/\text{NDF}$ : 182964.1/5

Right Out: 106.289 +/- 0.030  $\chi^2/\text{NDF}$ : 1000708.3/17

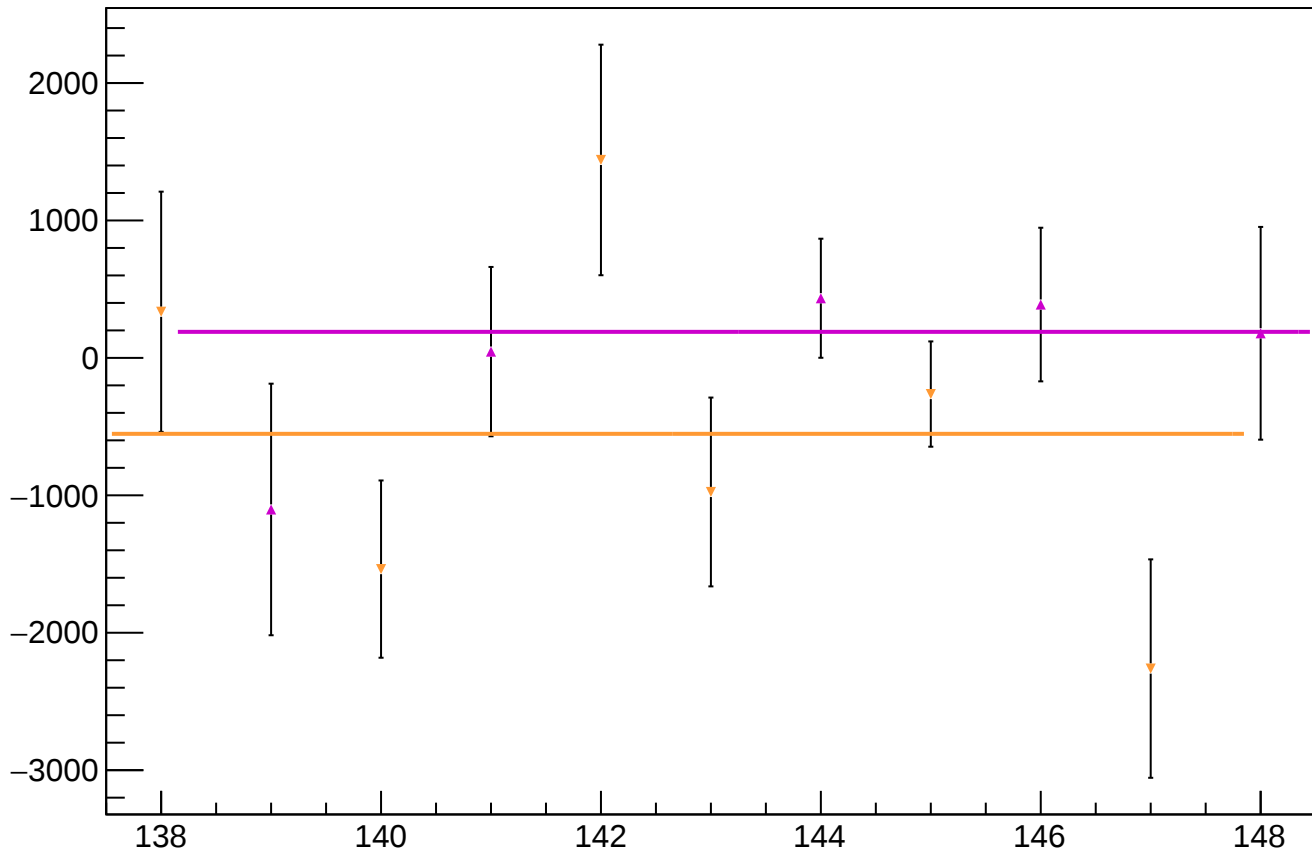
Left In: 92.996 +/- 0.034  $\chi^2/\text{NDF}$ : 85237.8/4

+ sign 93.853 +/- 0.021  $\chi^2/\text{NDF}$ : 1229105.1/22

All: 96.900 +/- 0.015  $\chi^2/\text{NDF}$ : 2448542.4/45

- sign 100.401 +/- 0.022  $\chi^2/\text{NDF}$ : 1173428.8/22

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -552.571+/-252.777  $\chi^2/\text{NDF}$ : 14.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

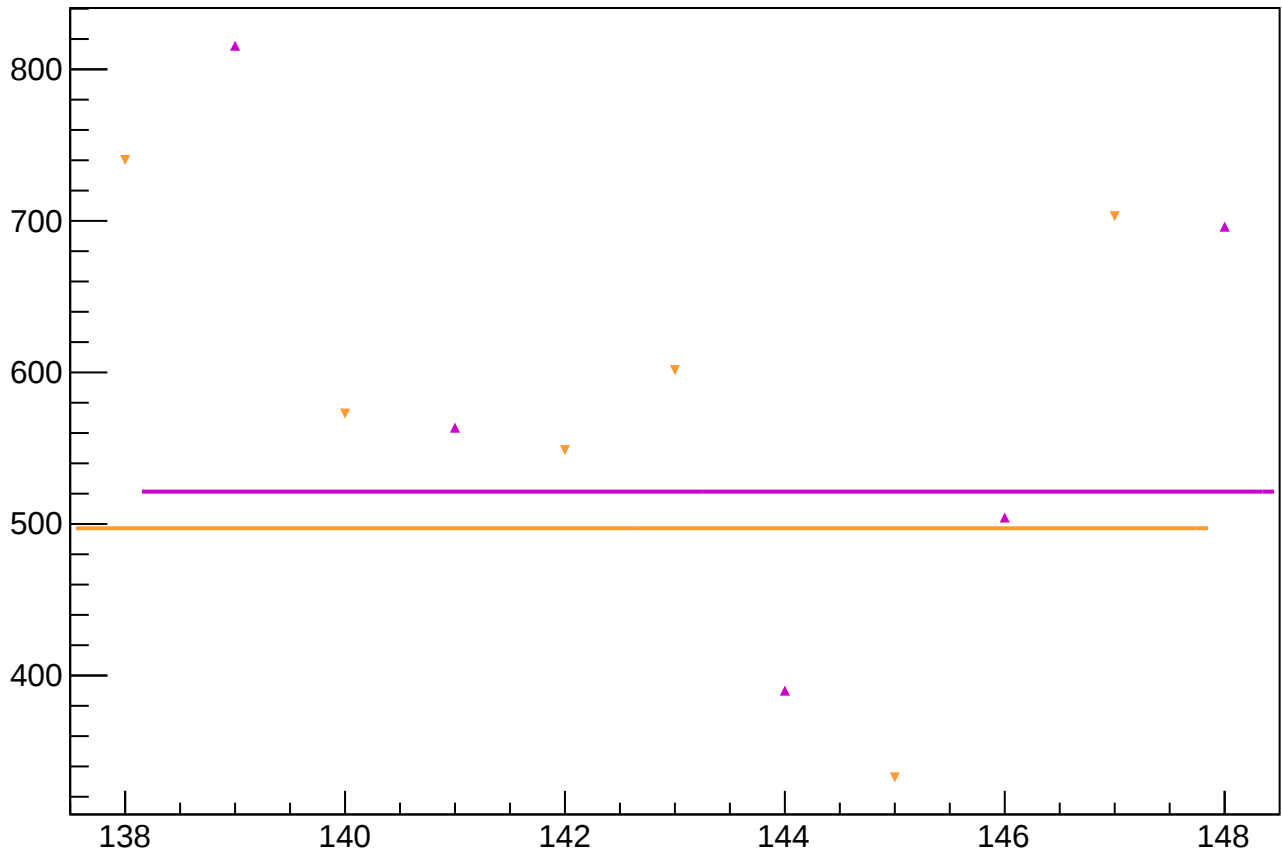
Left In: 189.515+/-266.994  $\chi^2/\text{NDF}$ : 2.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -201.811+/-183.561  $\chi^2/\text{NDF}$ : 21.1/10

- 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: 497.169+/-0.179  $\chi^2/\text{NDF}$ : 738304.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

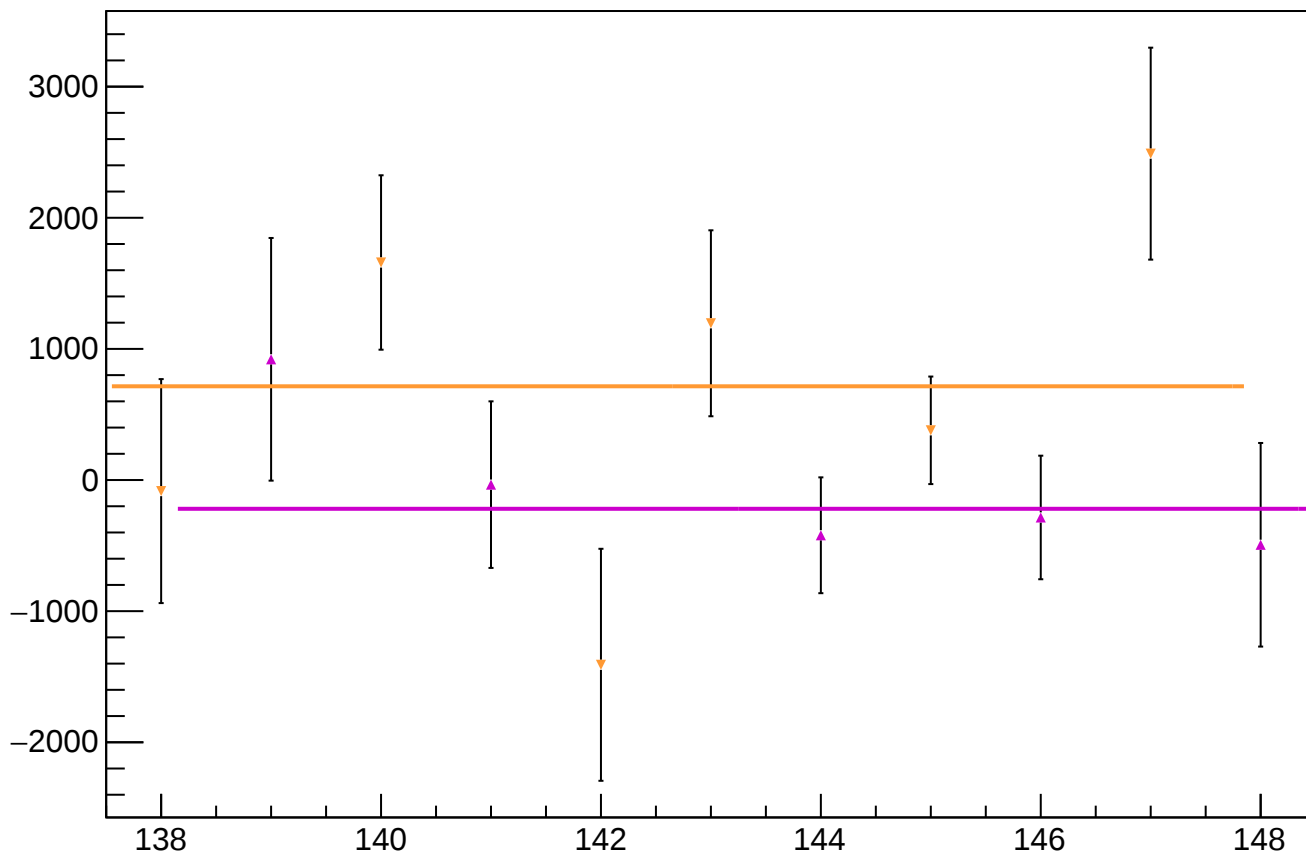
Left In: 521.347+/-0.189  $\chi^2/\text{NDF}$ : 503768.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 508.597+/-0.130  $\chi^2/\text{NDF}$ : 1250722.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 714.835+/-263.727  $\chi^2/\text{NDF}$ :14.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

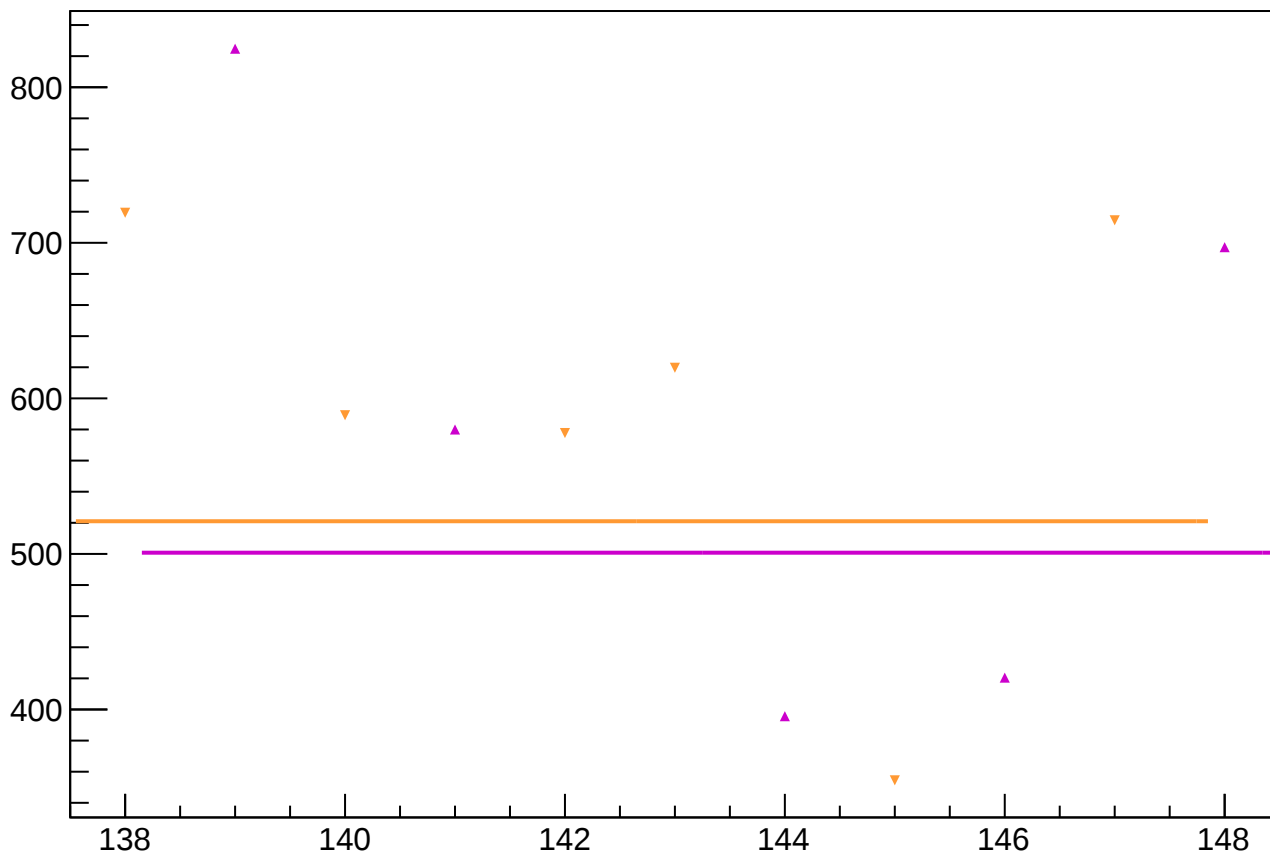
Left In: -219.387+/-258.743  $\chi^2/\text{NDF}$ :2.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 238.814+/-184.696  $\chi^2/\text{NDF}$ : 23.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 521.013+/-0.186  $\chi^2/\text{NDF}$ : 620409.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

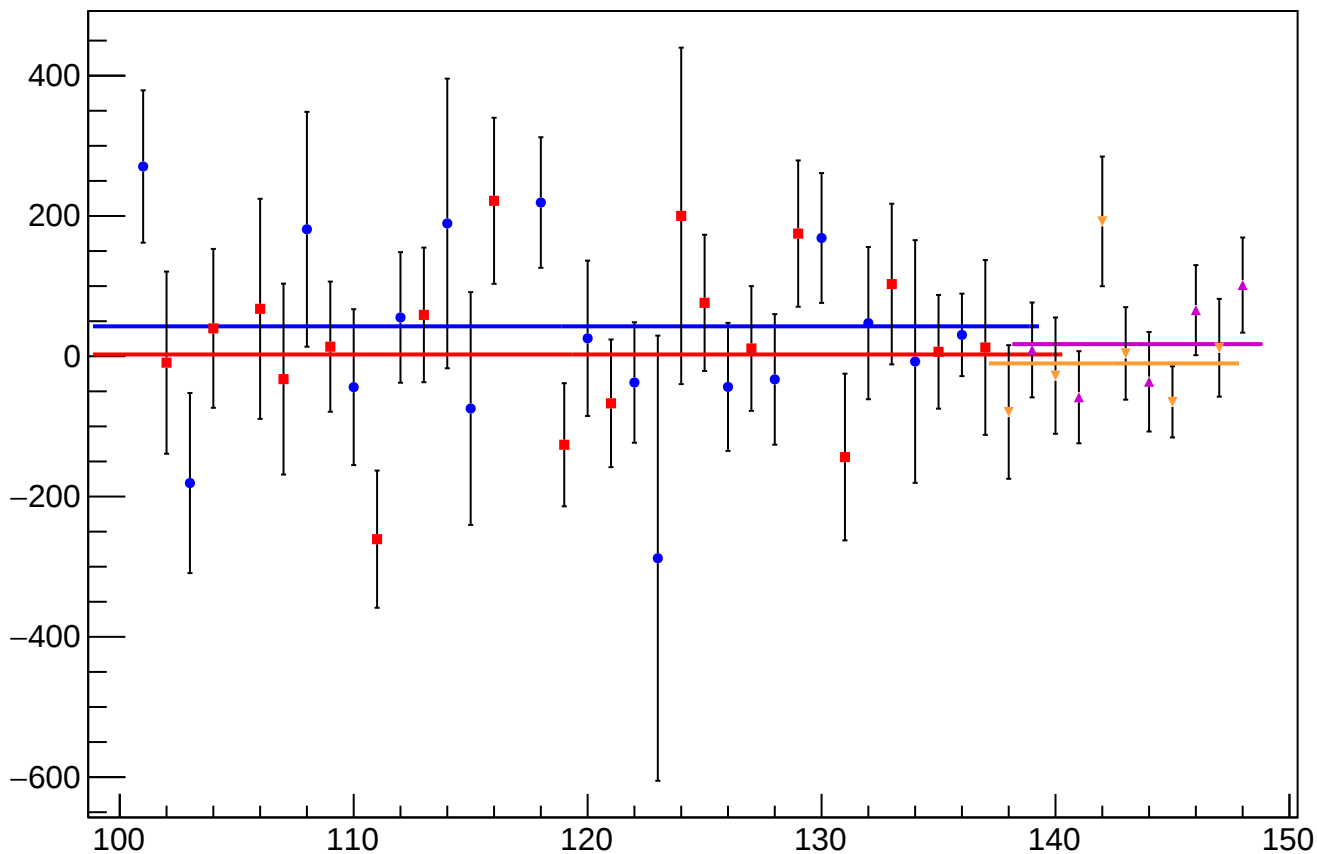
Left In: 500.790+/-0.183  $\chi^2/\text{NDF}$ : 575700.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 510.708+/-0.131  $\chi^2/\text{NDF}$ : 1202102.2/10

- 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:  $-10.157 \pm 28.896$   $\chi^2/\text{NDF}$ : 6.7/5

Right Out:  $2.576 \pm 25.088$   $\chi^2/\text{NDF}$ : 20.4/17

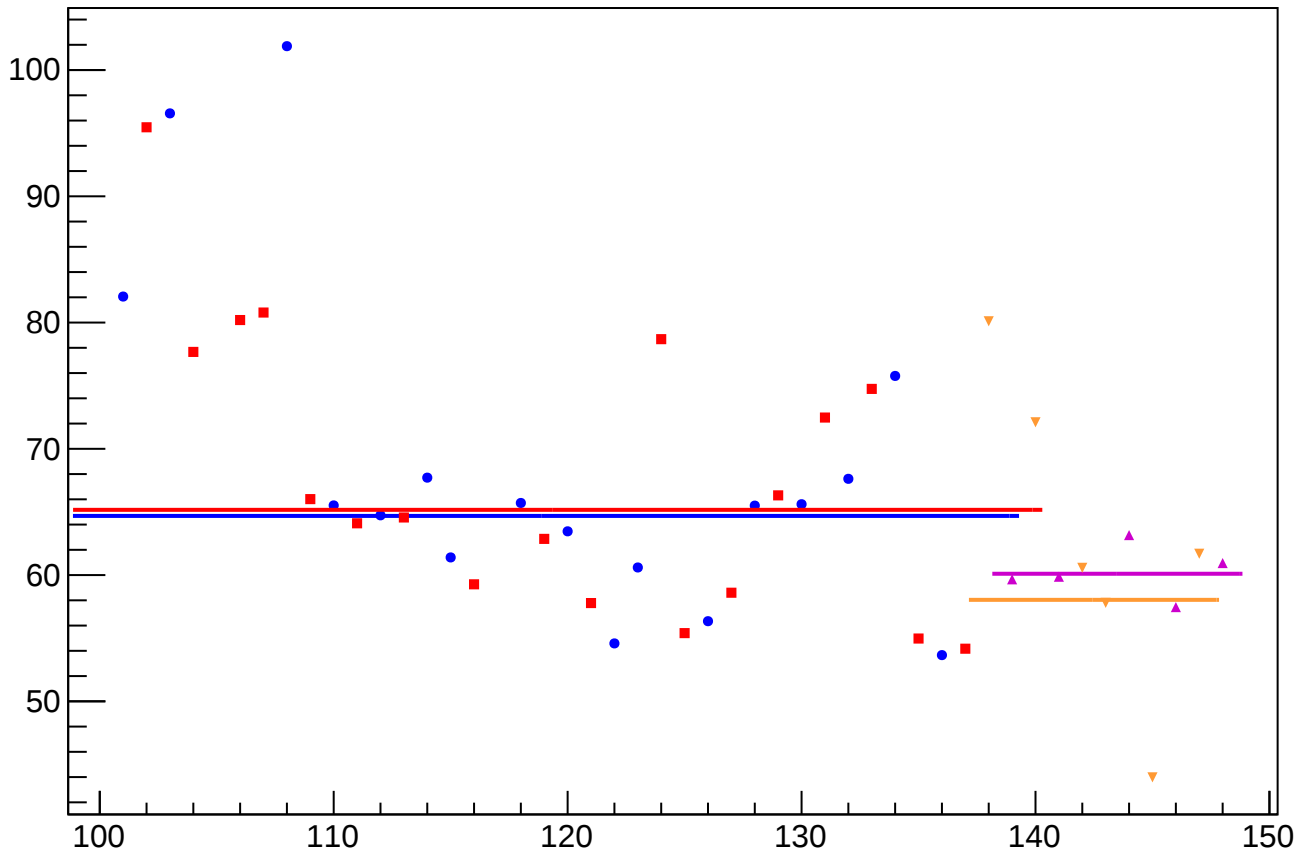
Left In:  $17.322 \pm 30.022$   $\chi^2/\text{NDF}$ : 4.0/4

+ sign  $19.547 \pm 19.114$   $\chi^2/\text{NDF}$ : 27.4/22

All:  $14.132 \pm 13.564$   $\chi^2/\text{NDF}$ : 52.2/45

- sign  $8.639 \pm 19.251$   $\chi^2/\text{NDF}$ : 24.6/22

# 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: 58.038 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 325799.1/5

Right Out: 65.167 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 304580.7/17

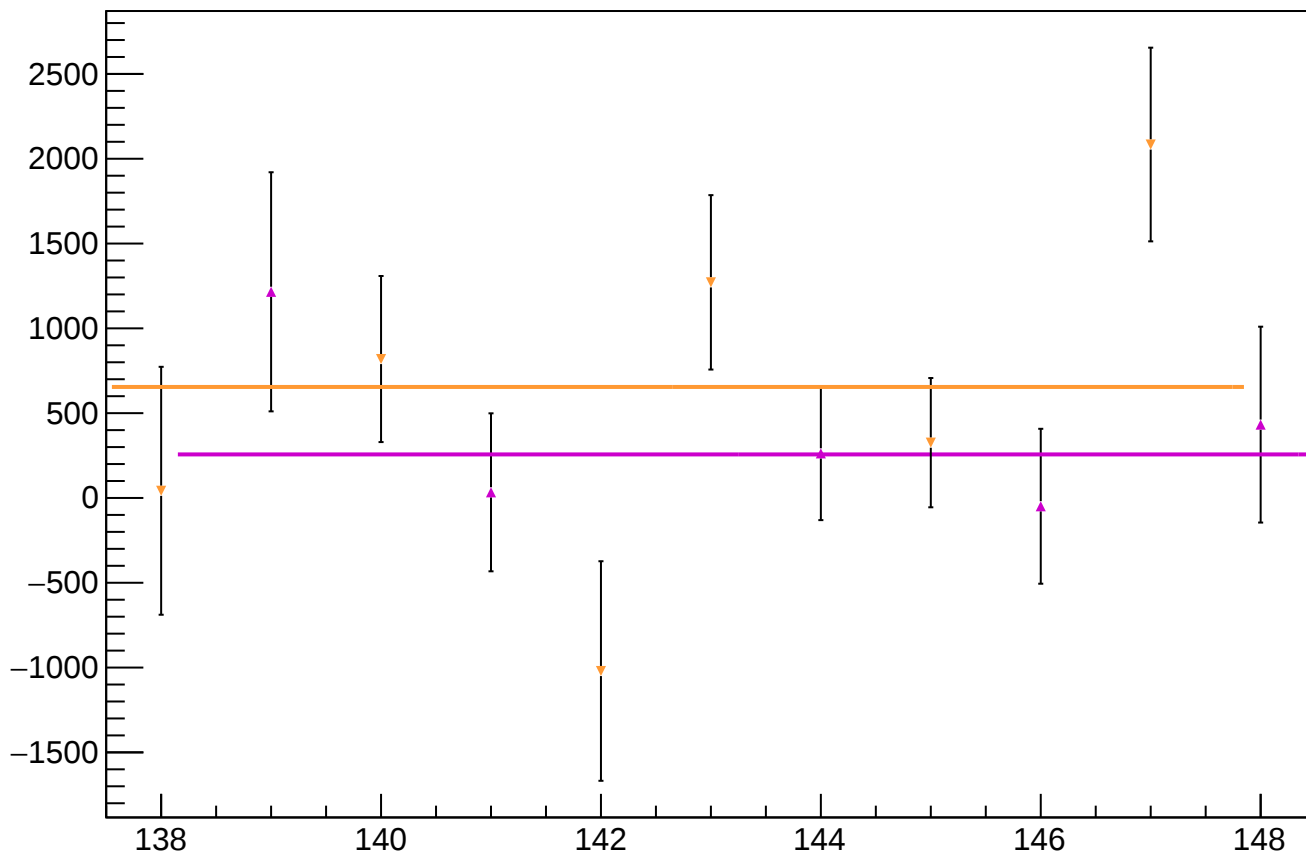
Left In: 60.104 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 7535.0/4

+ sign 61.777 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 785522.3/22

All: 62.427 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 1135782.6/45

- sign 63.086 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 345606.4/22

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 654.470+/-212.404  $\chi^2/\text{NDF}$ : 16.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

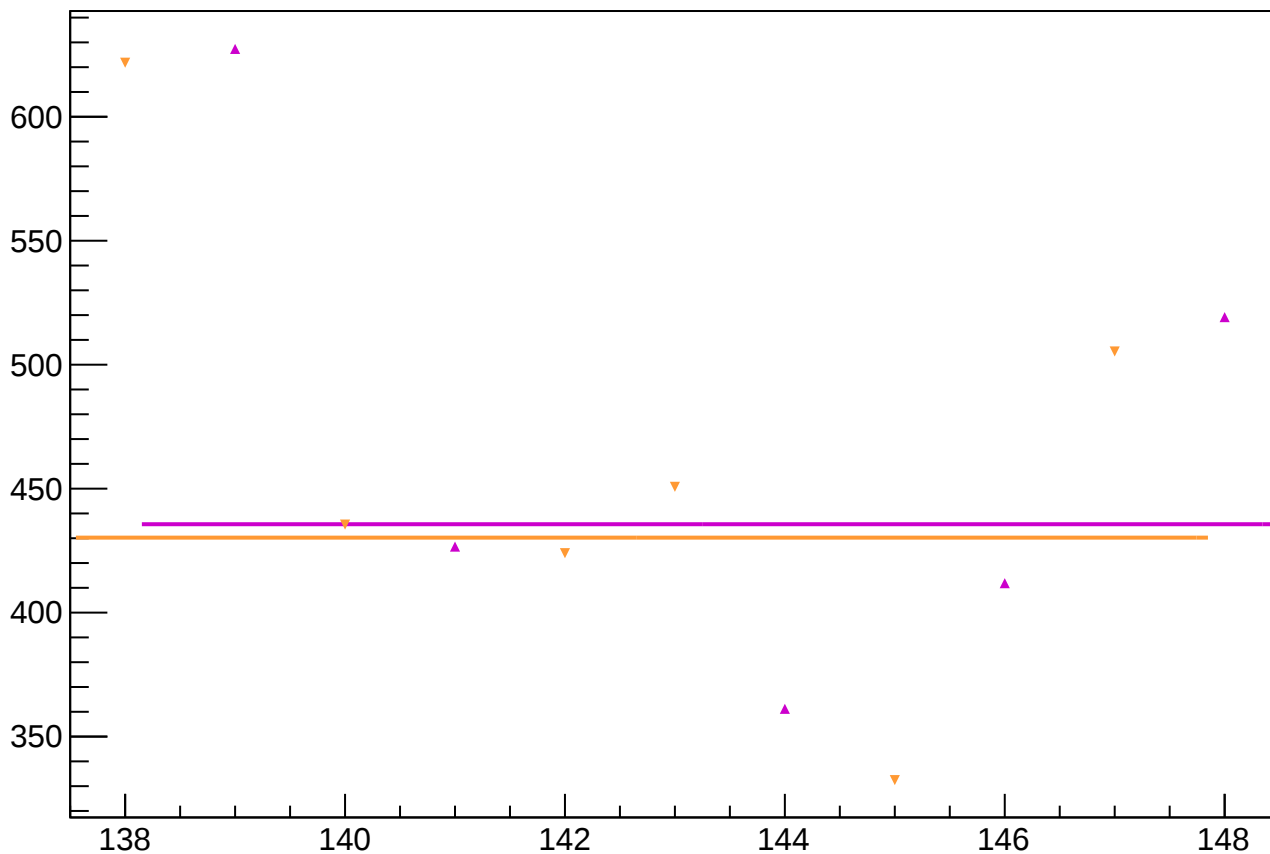
Left In: 256.744+/-218.874  $\chi^2/\text{NDF}$ : 2.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 461.572+/-152.428  $\chi^2/\text{NDF}$ : 20.3/10

- 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: 430.245+/-0.150  $\chi^2/\text{NDF}$ : 307293.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

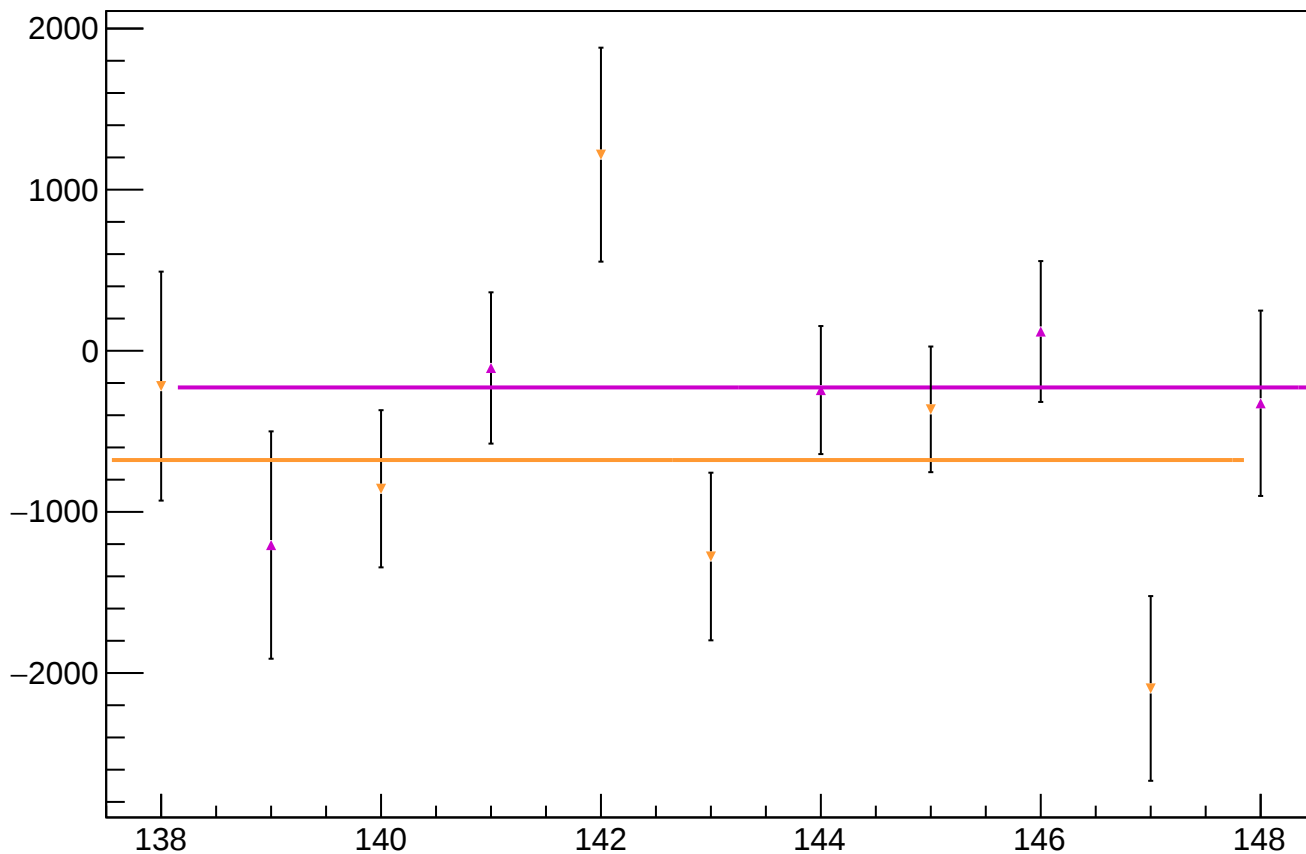
Left In: 435.655+/-0.155  $\chi^2/\text{NDF}$ : 267560.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.869+/-0.108  $\chi^2/\text{NDF}$ : 575483.2/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -678.122+/-214.340  $\chi^2/\text{NDF}$ :16.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

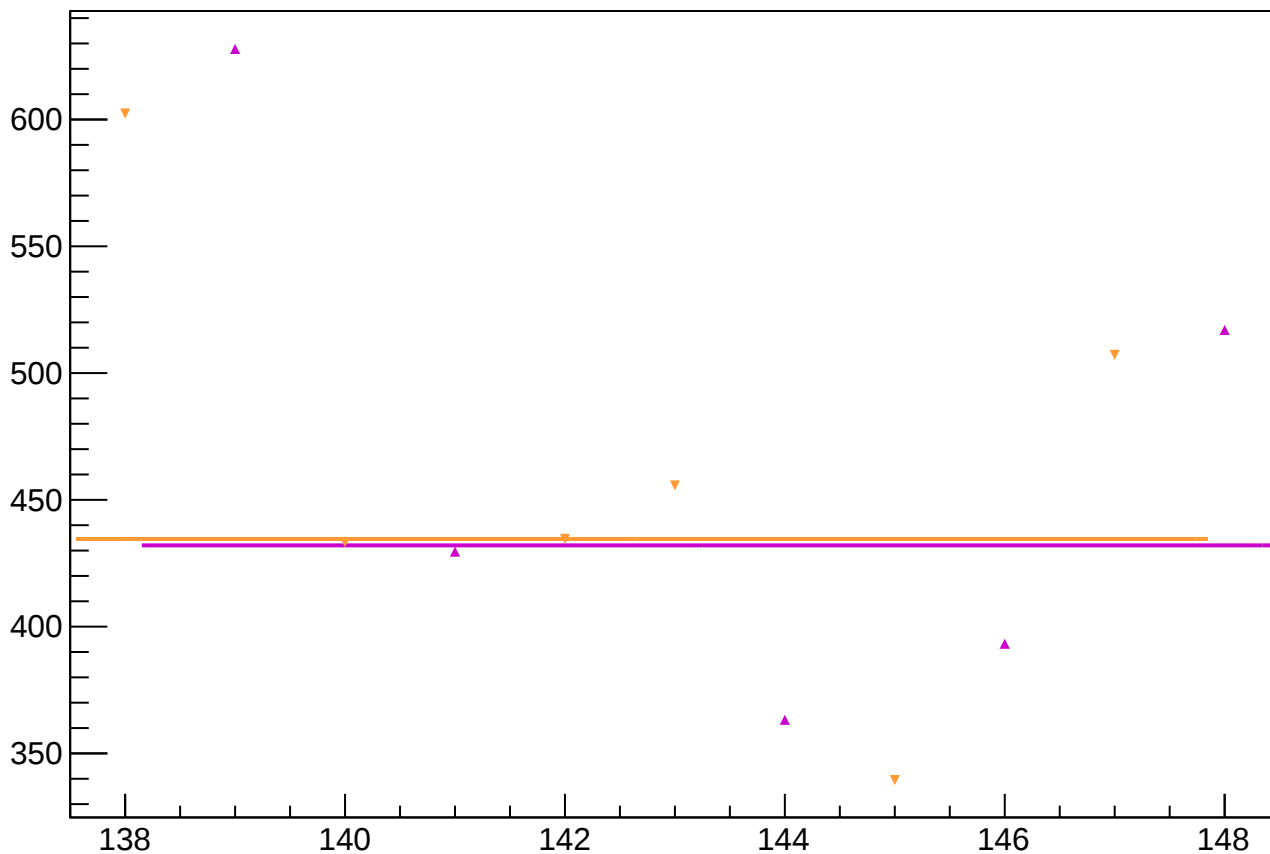
Left In: -227.504+/-217.514  $\chi^2/\text{NDF}$ :2.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -456.124+/-152.671  $\chi^2/\text{NDF}$ : 21.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 434.582+/-0.152  $\chi^2/\text{NDF}$ : 265872.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

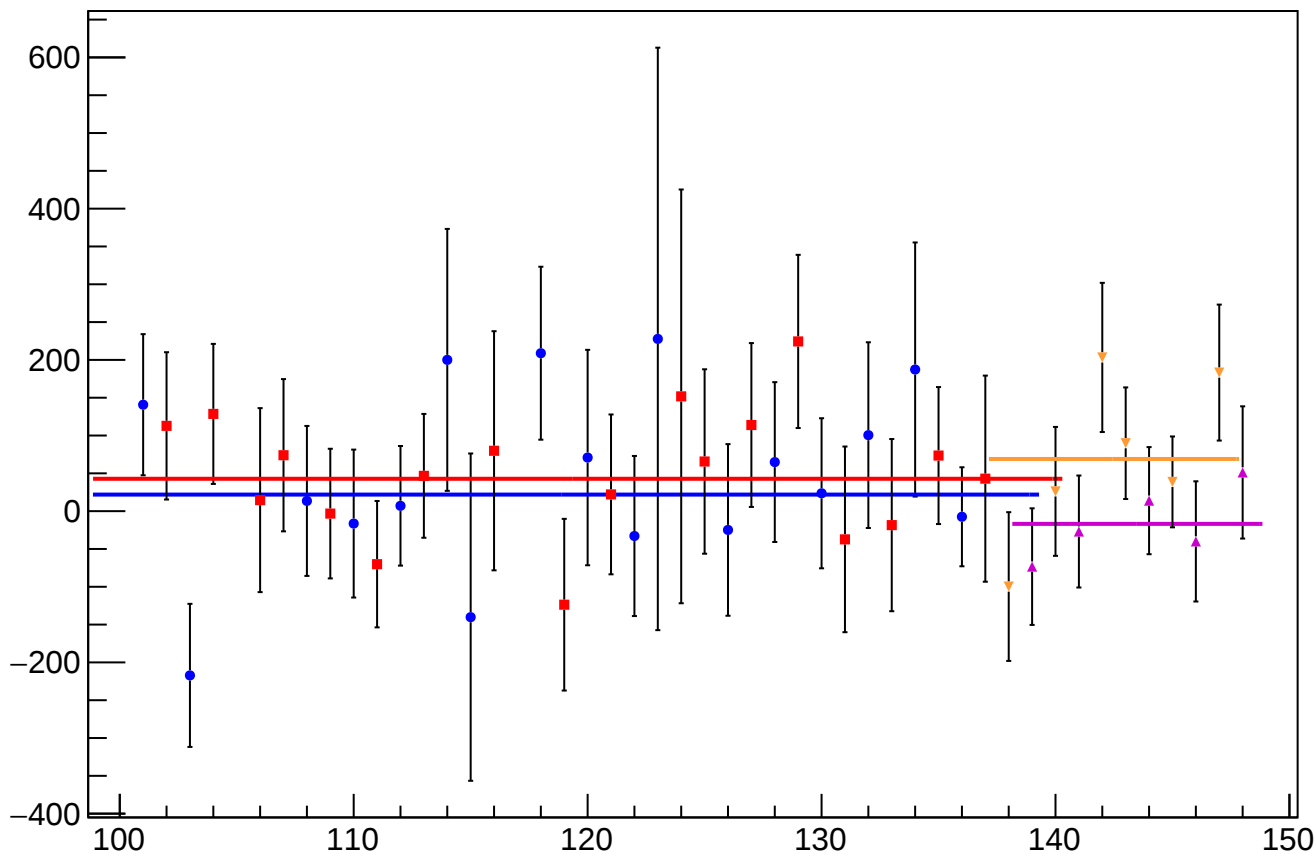
Left In: 432.052+/-0.154  $\chi^2/\text{NDF}$ : 273376.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 433.336+/-0.108  $\chi^2/\text{NDF}$ : 539386.1/10

- 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: 69.026 $\pm$ 32.821  $\chi^2$ /NDF: 7.0/5

Right Out: 42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

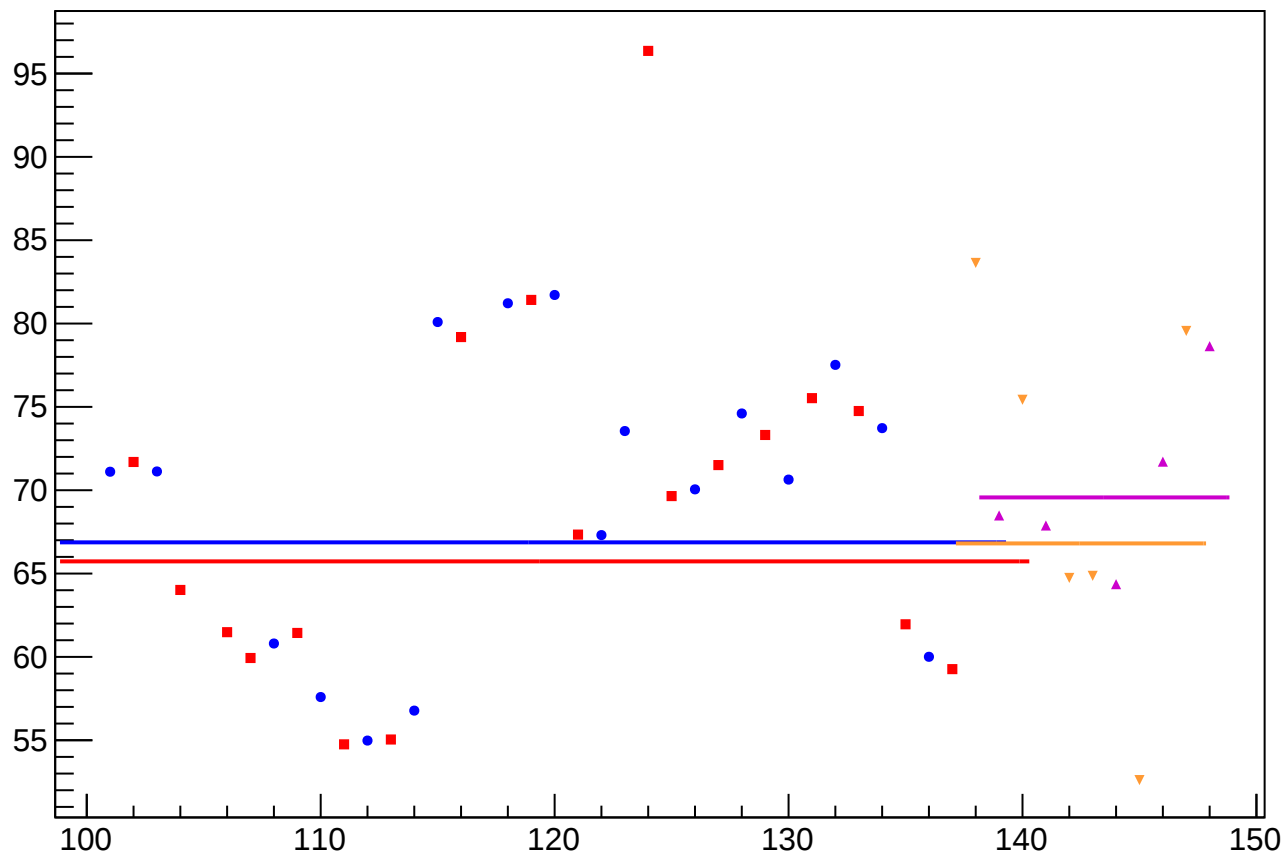
Left In: -16.829 $\pm$ 34.520  $\chi^2$ /NDF: 1.4/4

+ sign 40.122 $\pm$ 20.407  $\chi^2$ /NDF: 23.3/22

All: 31.104 $\pm$ 14.395  $\chi^2$ /NDF: 37.0/45

- sign 22.172 $\pm$ 20.309  $\chi^2$ /NDF: 13.2/22

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 66.872 $\pm$ 0.018  $\chi^2$ /NDF: 202515.6/16

Left Out: 66.808 $\pm$ 0.023  $\chi^2$ /NDF: 233239.0/5

Right Out: 65.731 $\pm$ 0.018  $\chi^2$ /NDF: 218867.5/17

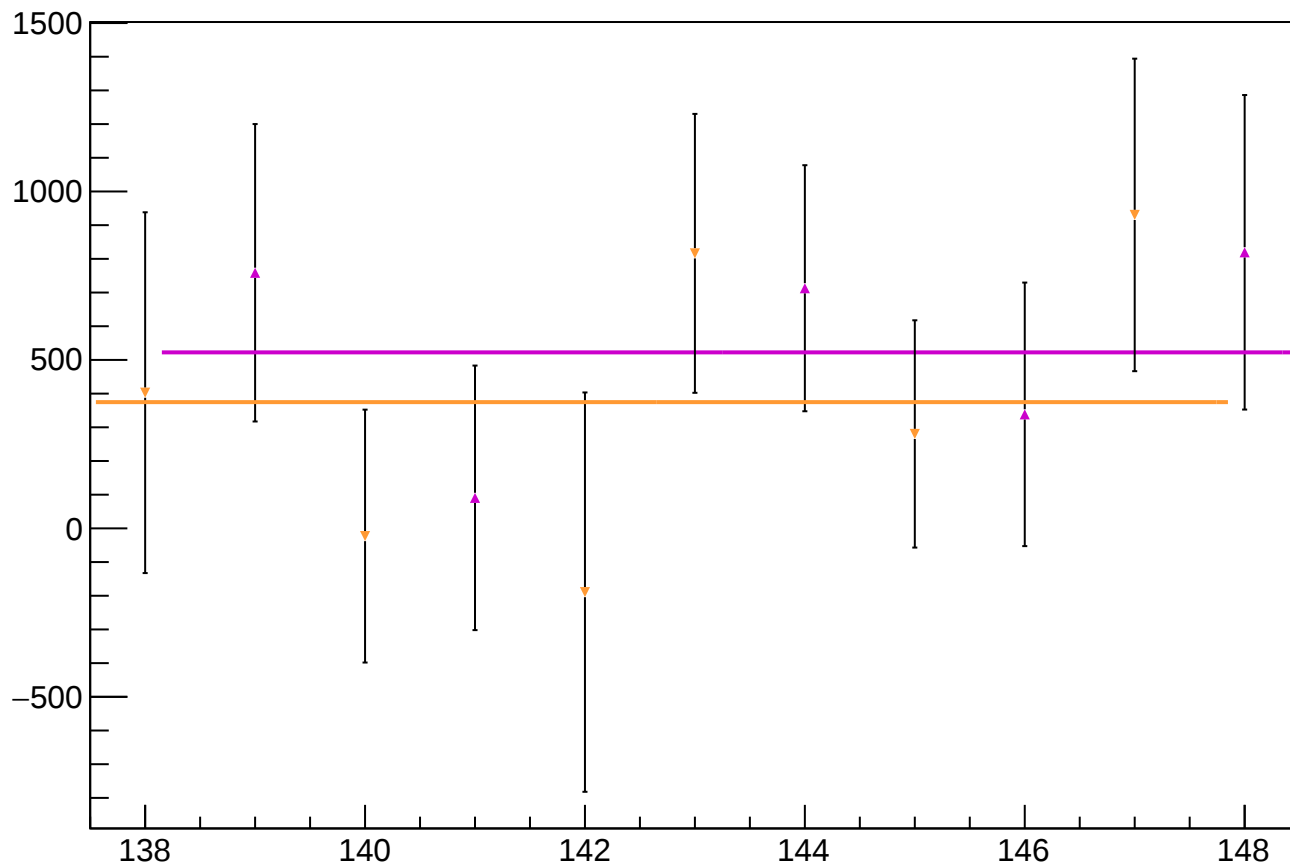
Left In: 69.568 $\pm$ 0.024  $\chi^2$ /NDF: 35233.4/4

+ sign 66.847 $\pm$ 0.014  $\chi^2$ /NDF: 435759.2/22

All: 66.954 $\pm$ 0.010  $\chi^2$ /NDF: 706128.3/45

- sign 67.059 $\pm$ 0.014  $\chi^2$ /NDF: 270261.3/22

# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 374.732+/-174.854  $\chi^2/\text{NDF}$ : 4.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

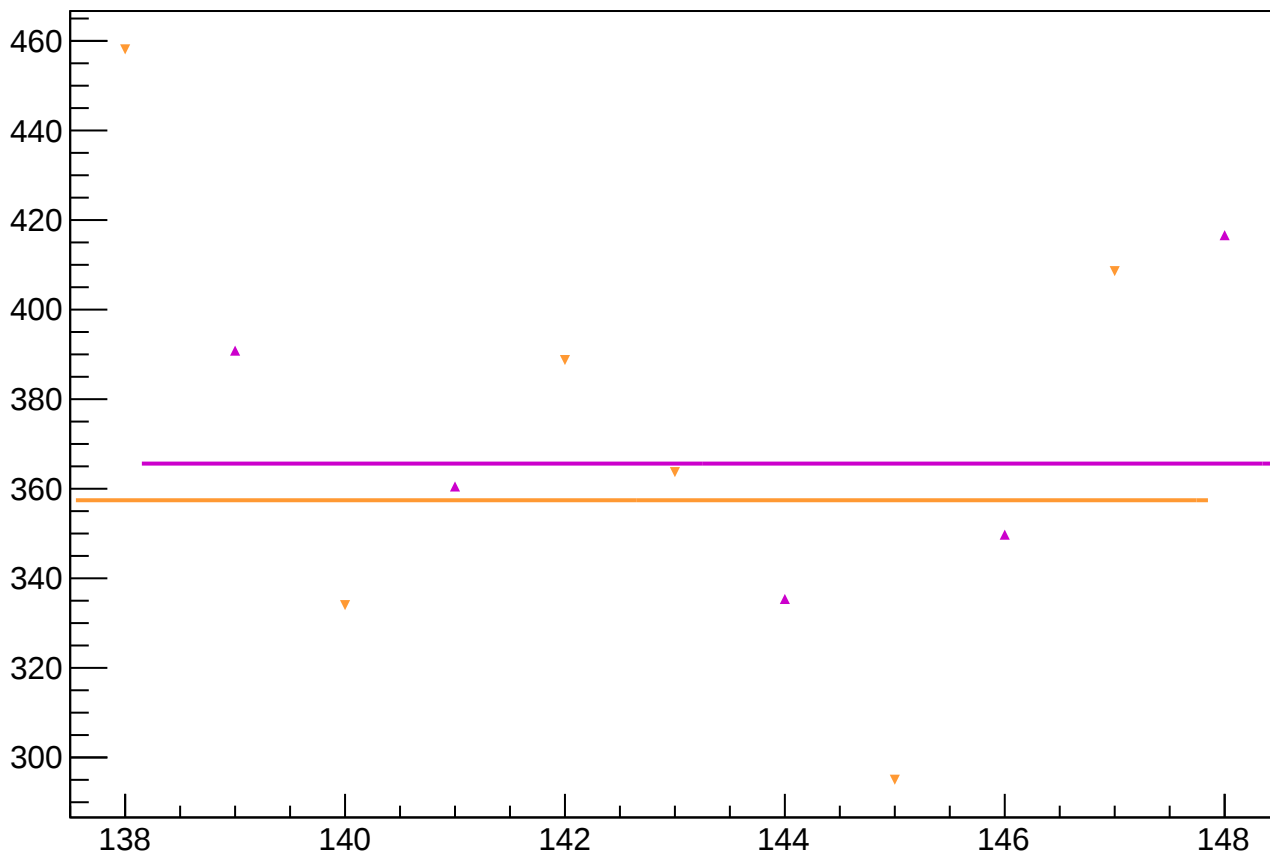
Left In: 522.412+/-181.834  $\chi^2/\text{NDF}$ : 2.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 445.683+/-126.036  $\chi^2/\text{NDF}$ : 7.4/10

- 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: 357.432+/-0.124  $\chi^2/\text{NDF}$ : 177321.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

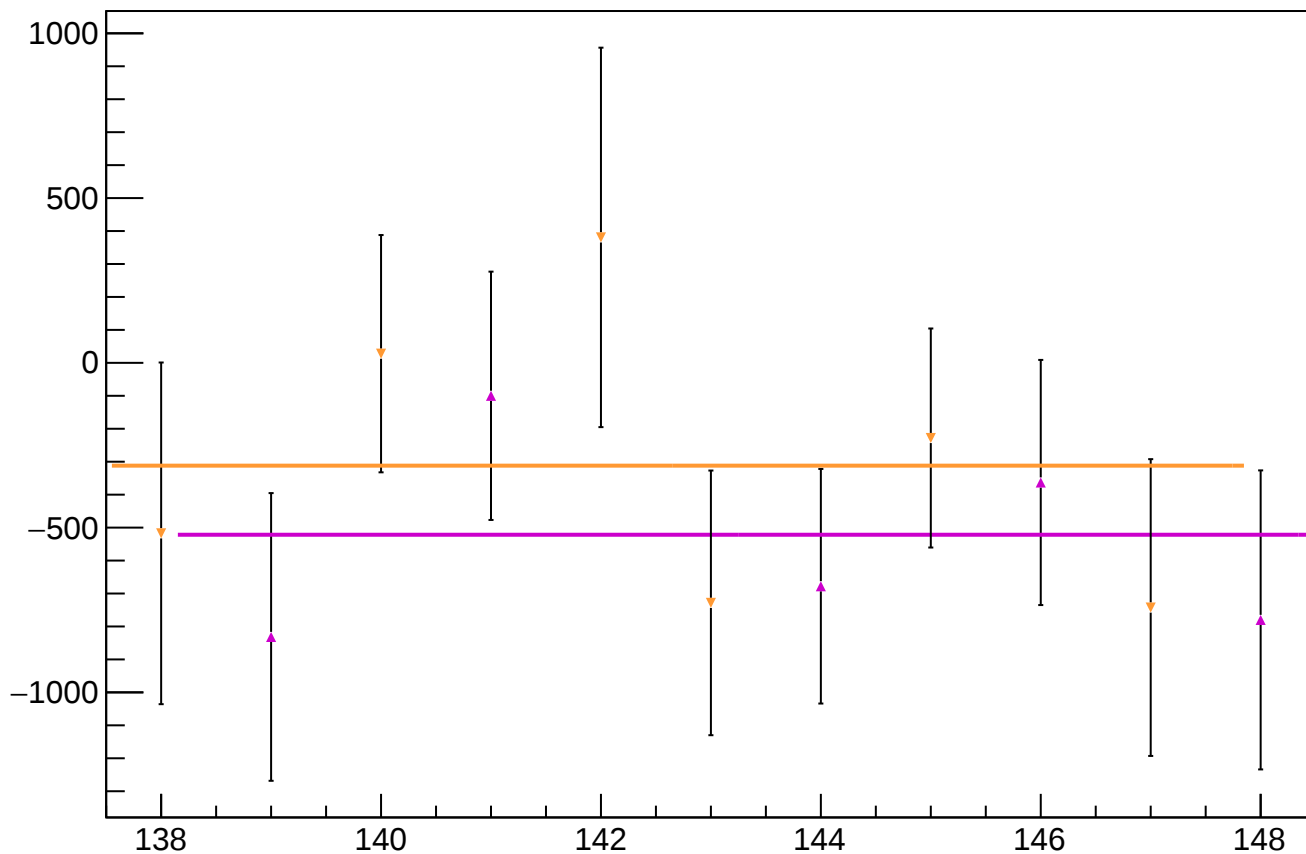
Left In: 365.617+/-0.129  $\chi^2/\text{NDF}$ : 47739.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 361.364+/-0.089  $\chi^2/\text{NDF}$ : 227166.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -311.967 $\pm$ 169.911  $\chi^2$ /NDF:4.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

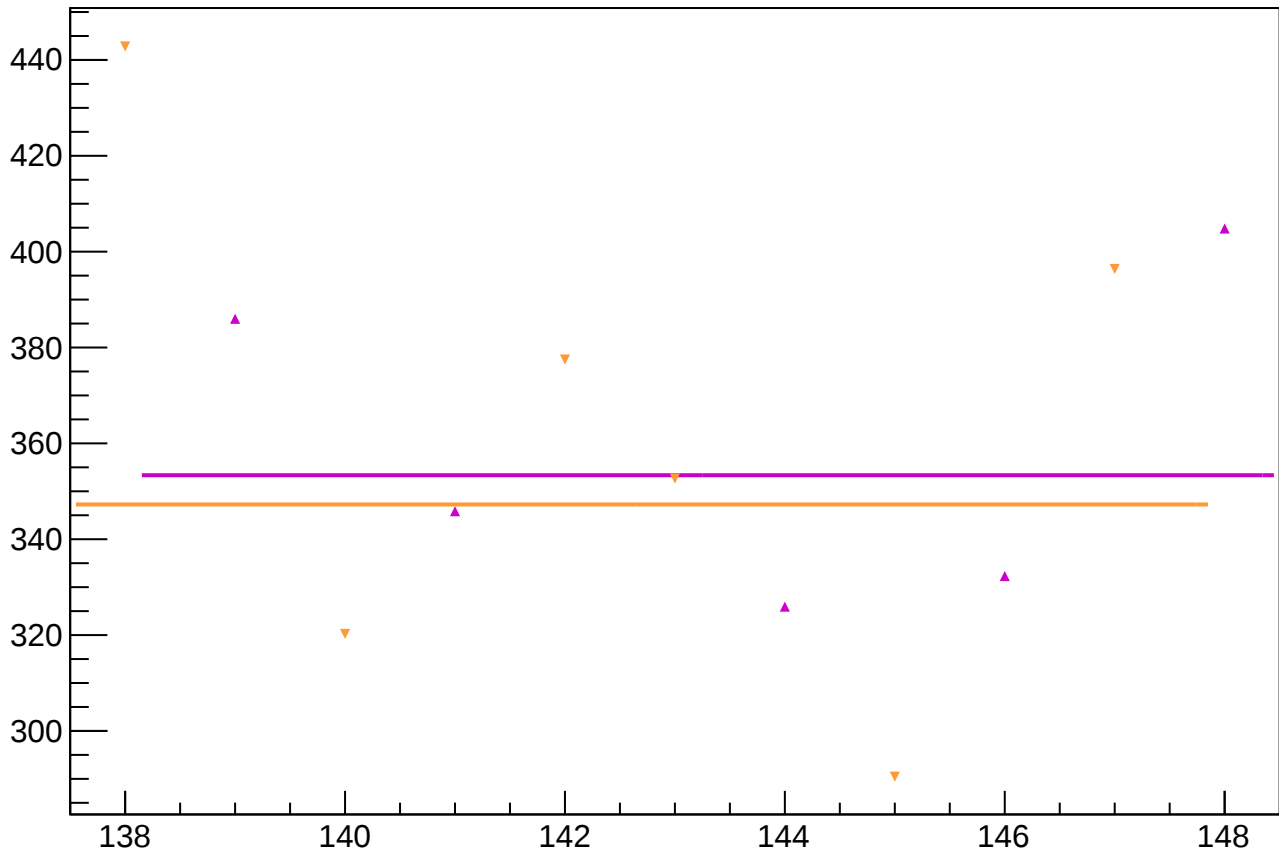
Left In: -521.649 $\pm$ 176.033  $\chi^2$ /NDF:2.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -413.099 $\pm$ 122.252  $\chi^2$ /NDF: 7.7/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 347.255+/-0.120  $\chi^2/\text{NDF}$ : 167322.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

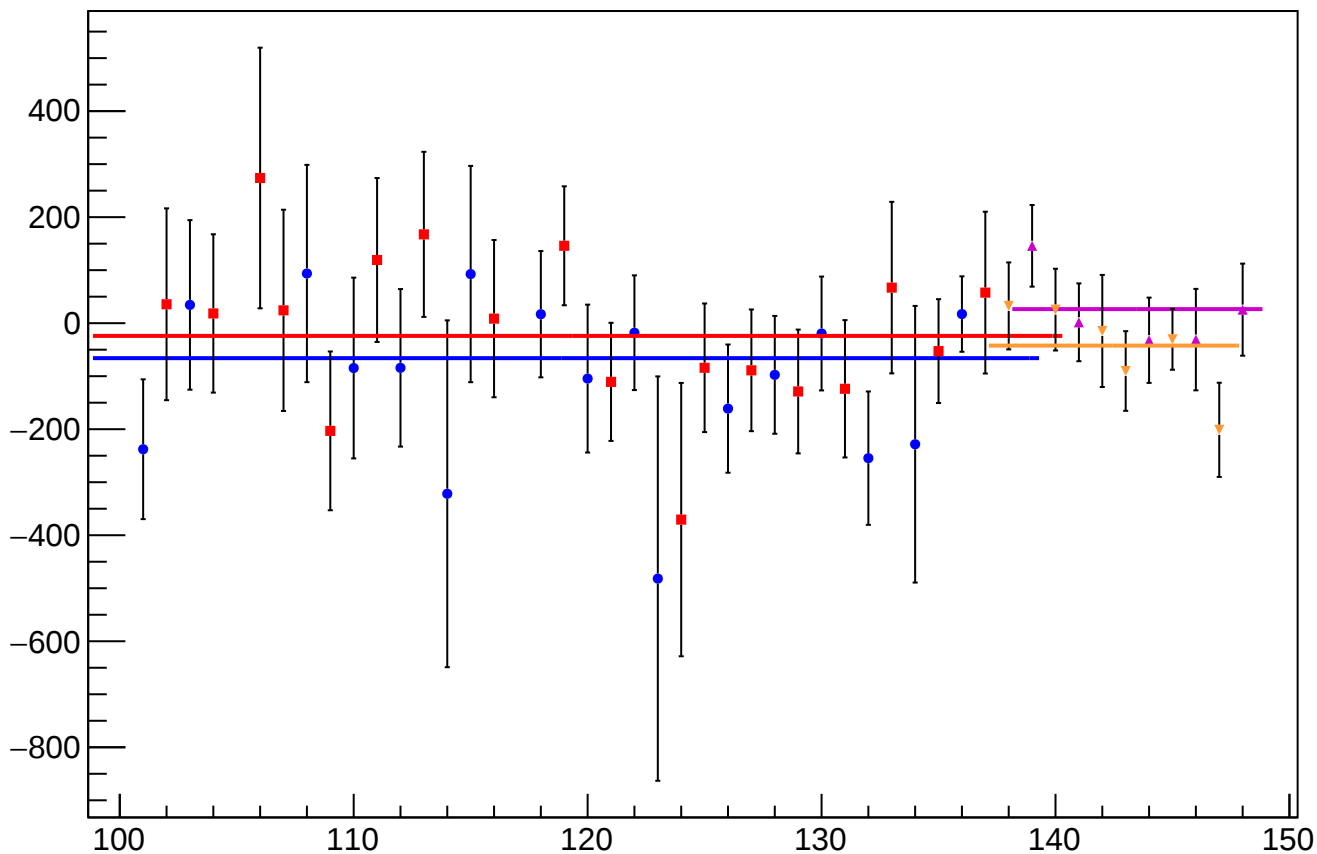
Left In: 353.356+/-0.124  $\chi^2/\text{NDF}$ : 55980.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 350.197+/-0.086  $\chi^2/\text{NDF}$ : 224547.2/10

- 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: -42.294 $\pm$ 31.418  $\chi^2/\text{NDF}$ : 5.3/5

Right Out: -23.979 $\pm$ 32.790  $\chi^2/\text{NDF}$ : 12.9/17

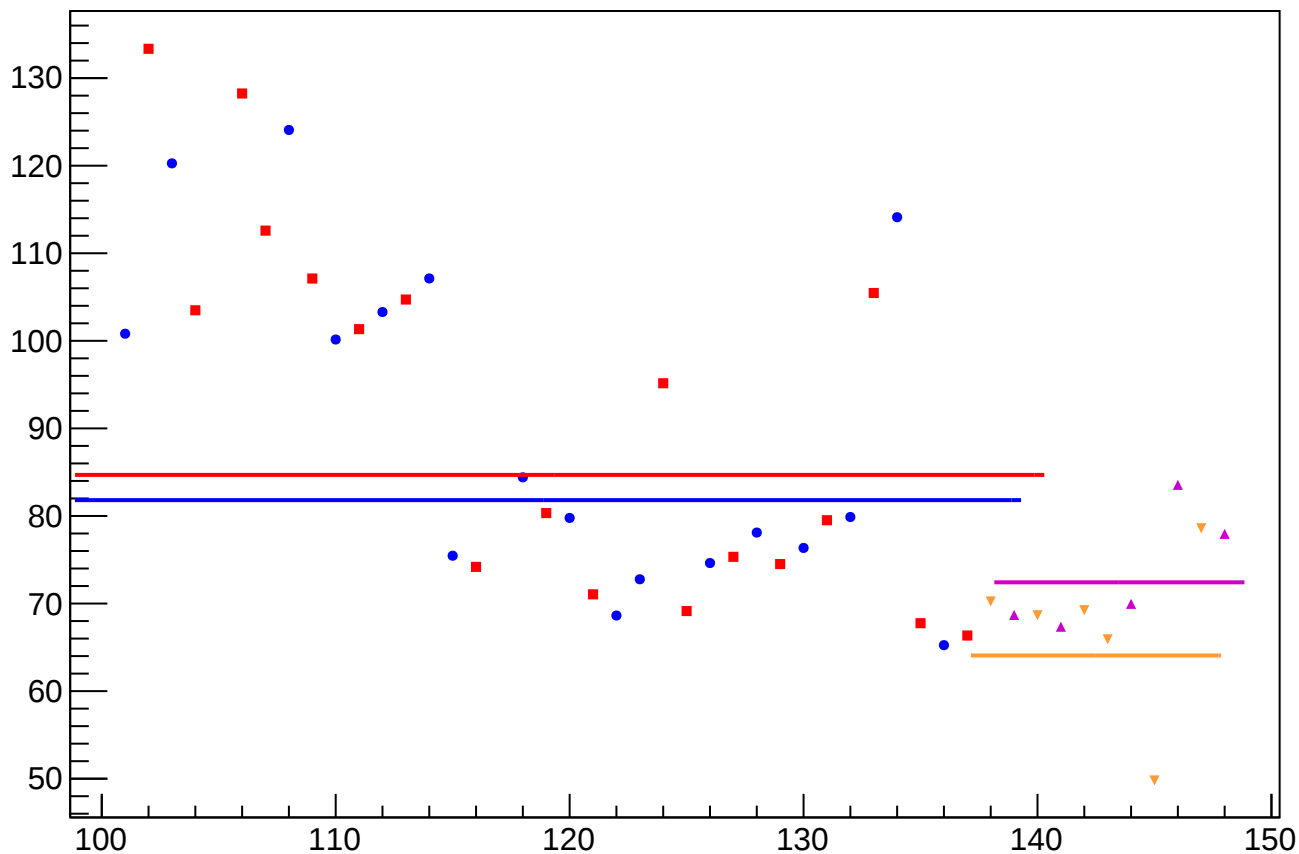
Left In: 26.552 $\pm$ 36.494  $\chi^2/\text{NDF}$ : 3.4/4

+ sign -53.810 $\pm$ 22.517  $\chi^2/\text{NDF}$ : 16.4/22

All: -29.698 $\pm$ 16.545  $\chi^2/\text{NDF}$ : 36.3/45

- sign -1.408 $\pm$ 24.391  $\chi^2/\text{NDF}$ : 17.4/22

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 64.068 $\pm$ 0.022  $\chi^2$ /NDF: 201202.2/5

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

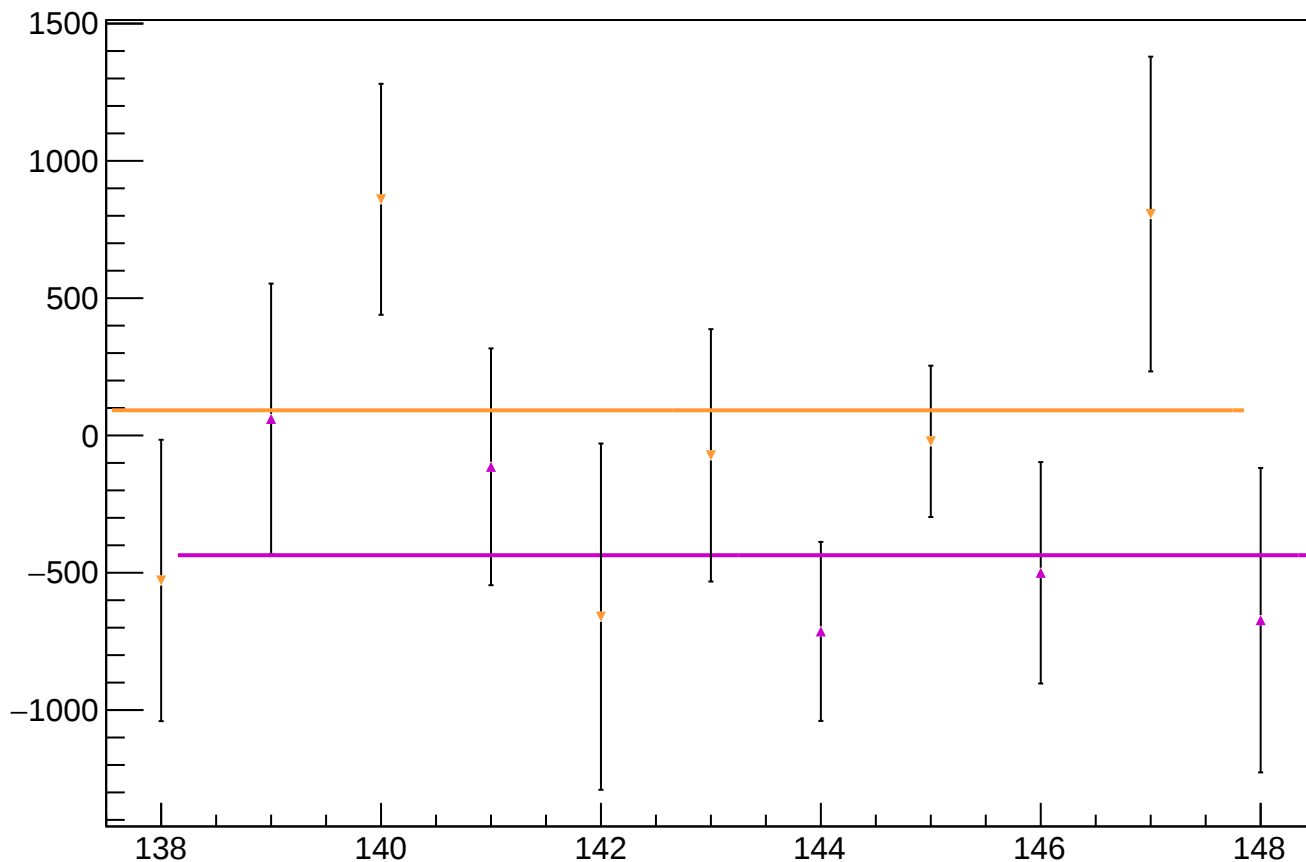
Left In: 72.423 $\pm$ 0.026  $\chi^2$ /NDF: 51270.6/4

+ sign 72.696 $\pm$ 0.016  $\chi^2$ /NDF: 1018539.5/22

All: 75.694 $\pm$ 0.012  $\chi^2$ /NDF: 1887831.6/45

- sign 79.211 $\pm$ 0.017  $\chi^2$ /NDF: 792240.0/22

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 91.661+/-174.283  $\chi^2/\text{NDF}$ : 8.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

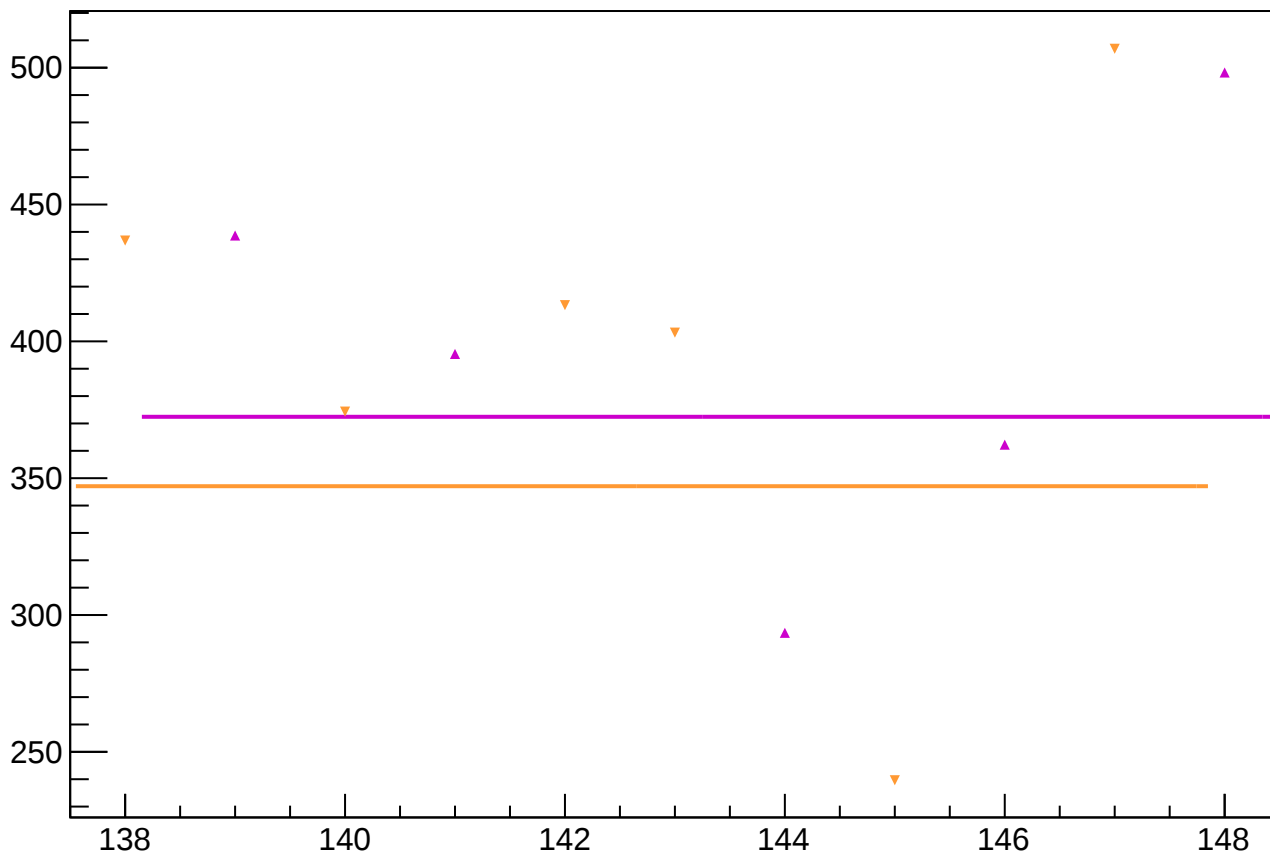
Left In: -436.152+/-187.947  $\chi^2/\text{NDF}$ : 2.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -152.364+/-127.795  $\chi^2/\text{NDF}$ : 14.8/10

- 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: 347.069+/-0.123  $\chi^2/\text{NDF}$ : 581251.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

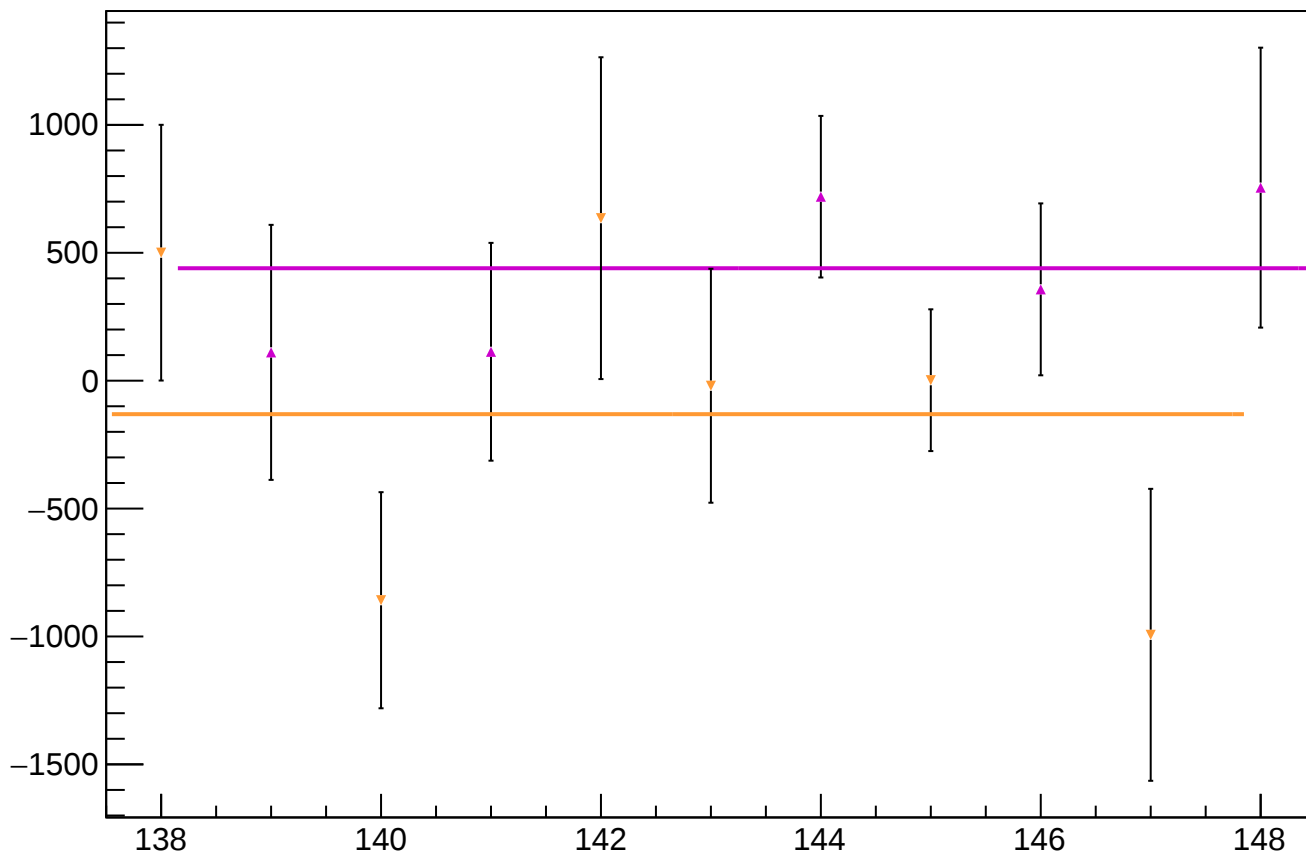
Left In: 372.436+/-0.133  $\chi^2/\text{NDF}$ : 263345.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 358.797+/-0.090  $\chi^2/\text{NDF}$ : 864186.2/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -130.929+/-174.064  $\chi^2/\text{NDF}$ : 8.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

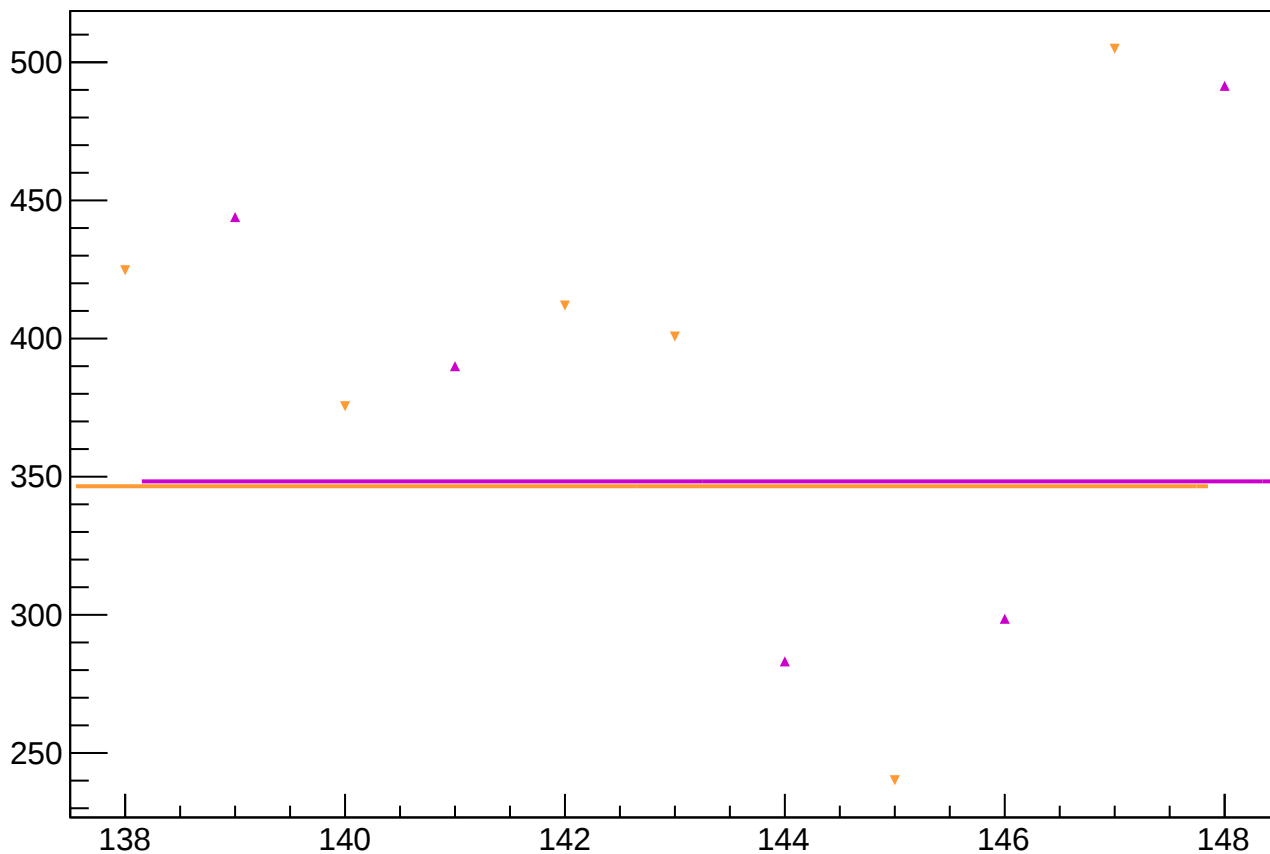
Left In: 439.598+/-177.449  $\chi^2/\text{NDF}$ : 2.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.840+/-124.261  $\chi^2/\text{NDF}$ : 16.1/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 346.538+/-0.123  $\chi^2/\text{NDF}$ :556835.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

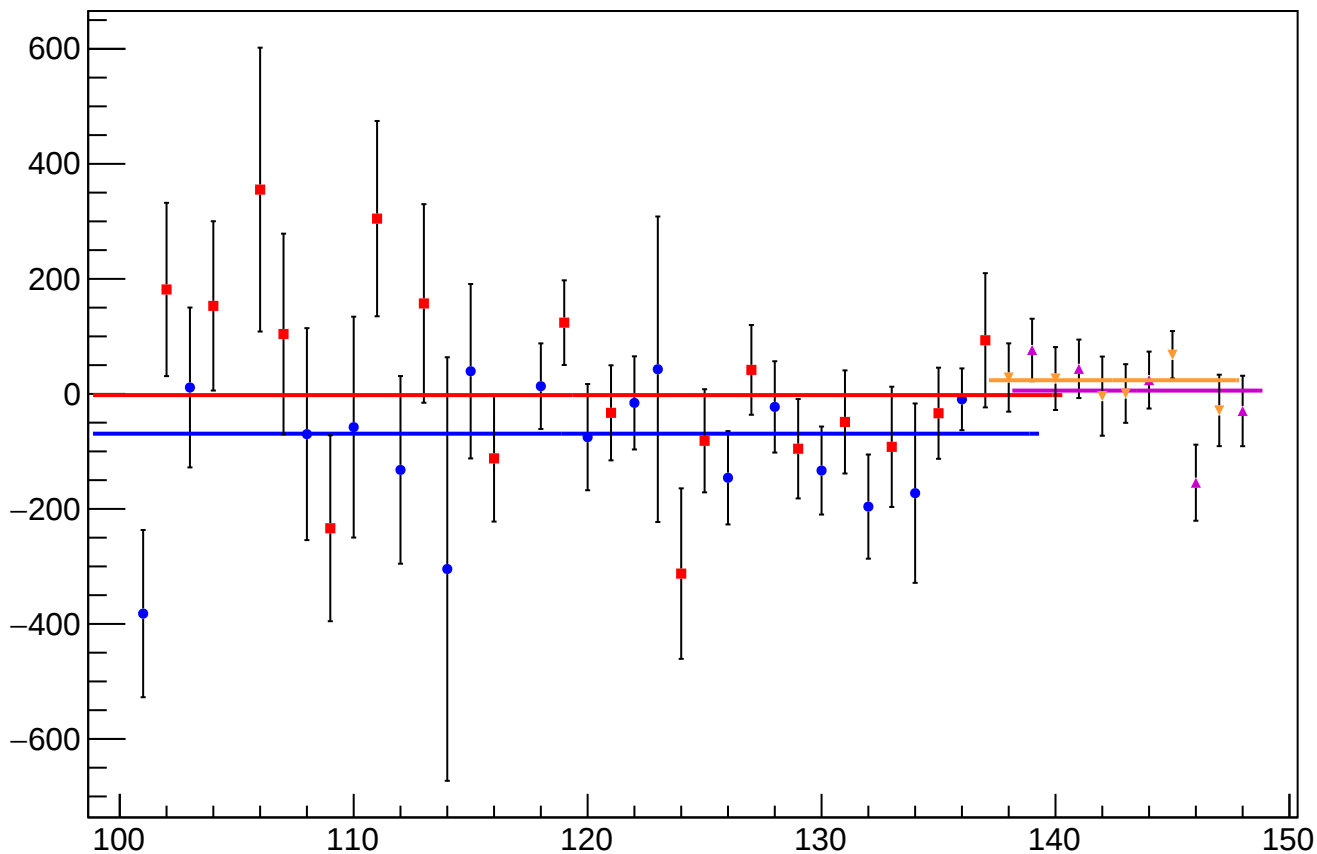
Left In: 348.305+/-0.125  $\chi^2/\text{NDF}$ :358599.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 347.404+/-0.088  $\chi^2/\text{NDF}$ : 915536.1/10

- 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:  $23.742 \pm 22.029$   $\chi^2/\text{NDF}$ : 2.2/5

Right Out:  $-2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

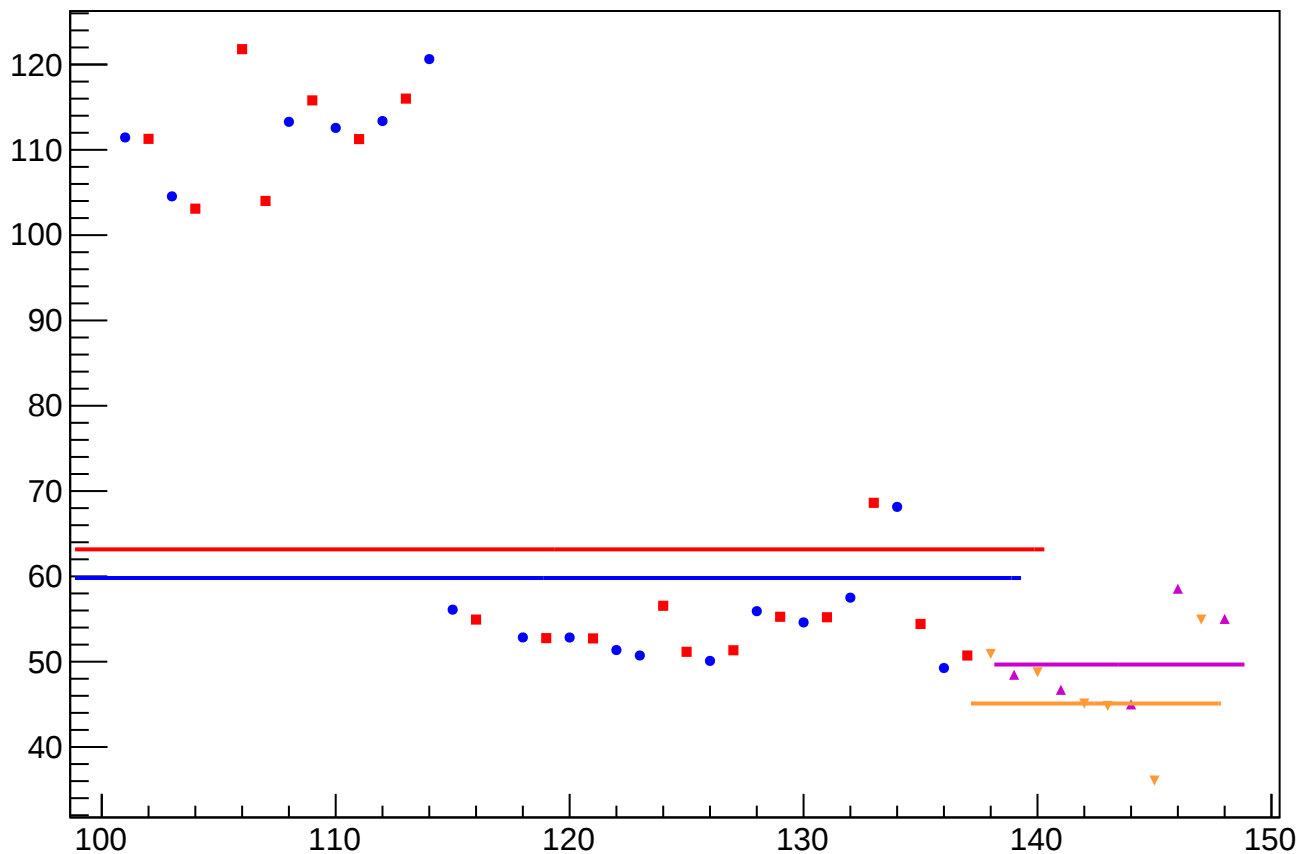
Left In:  $5.753 \pm 24.777$   $\chi^2/\text{NDF}$ : 8.6/4

+ sign  $-18.254 \pm 16.309$   $\chi^2/\text{NDF}$ : 23.7/22

All:  $-8.979 \pm 11.982$   $\chi^2/\text{NDF}$ : 56.9/45

- sign  $1.900 \pm 17.663$   $\chi^2/\text{NDF}$ : 32.4/22

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.809 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 1229983.3/16

Left Out: 45.099 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 174208.0/5

Right Out: 63.166 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1387305.6/17

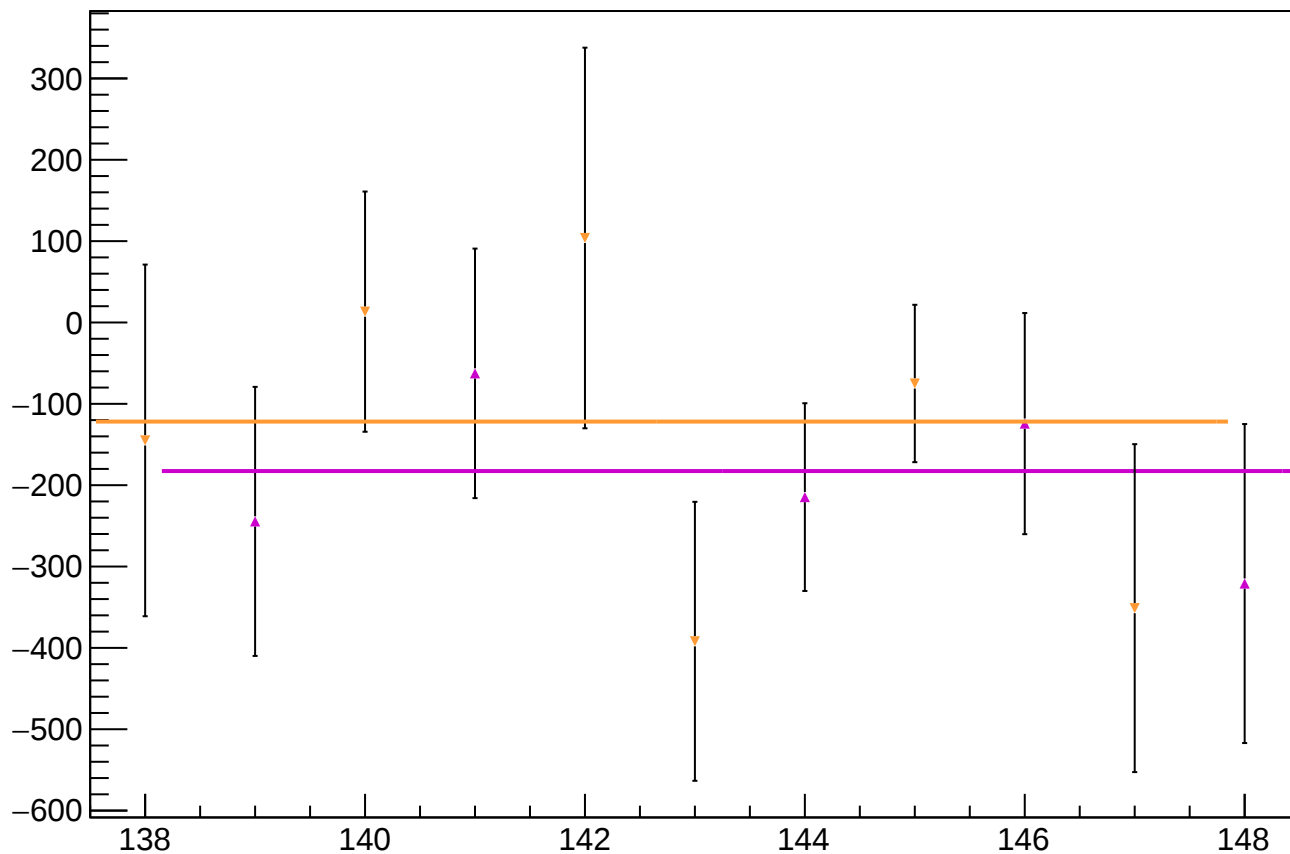
Left In: 49.667 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 76922.2/4

+ sign 51.747 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 1807188.1/22

All: 53.845 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 3635287.4/45

- sign 56.305 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 1756178.9/22

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -121.814+/-63.113  $\chi^2/\text{NDF}$ : 5.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

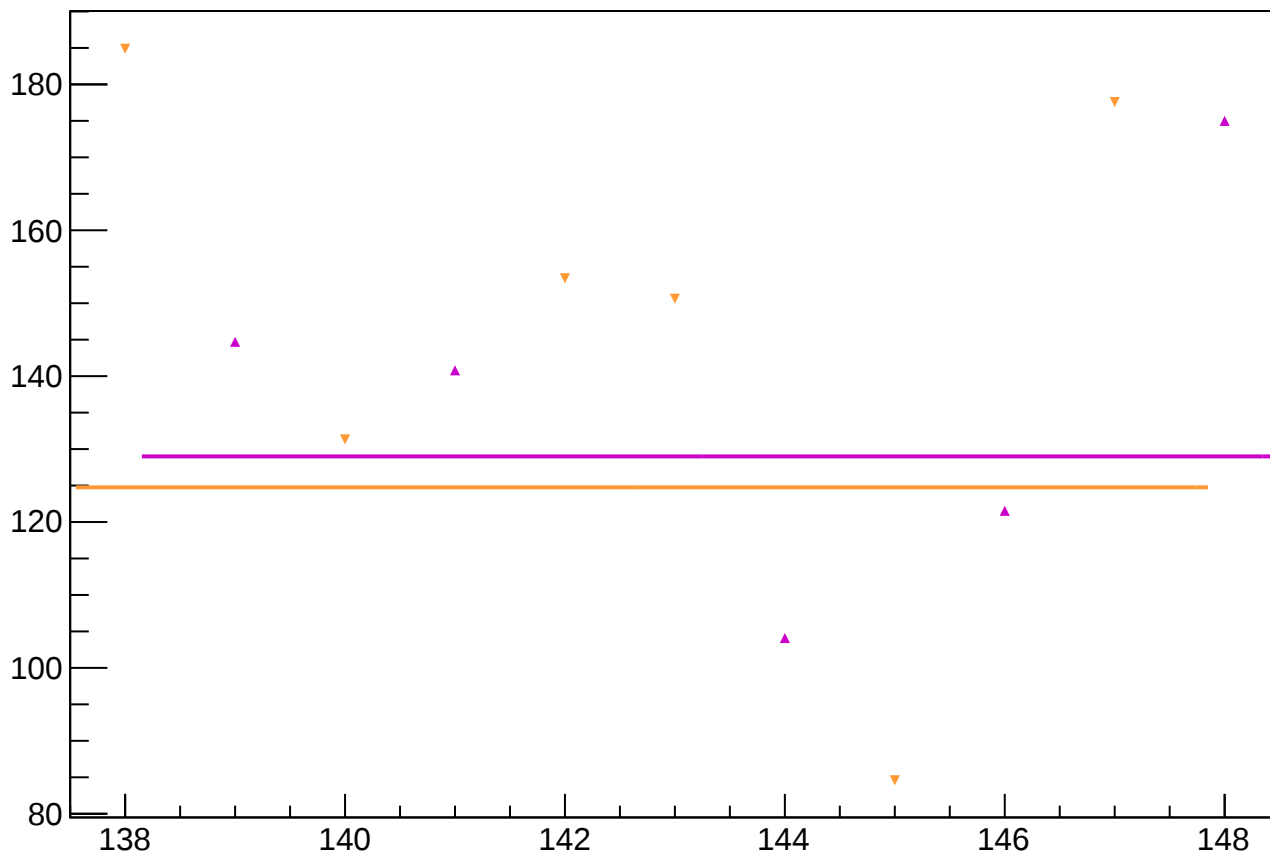
Left In: -182.636+/-65.325  $\chi^2/\text{NDF}$ : 1.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -151.178+/-45.390  $\chi^2/\text{NDF}$ : 7.8/10

- 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: 124.753+/-0.045  $\chi^2/\text{NDF}$ : 716491.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

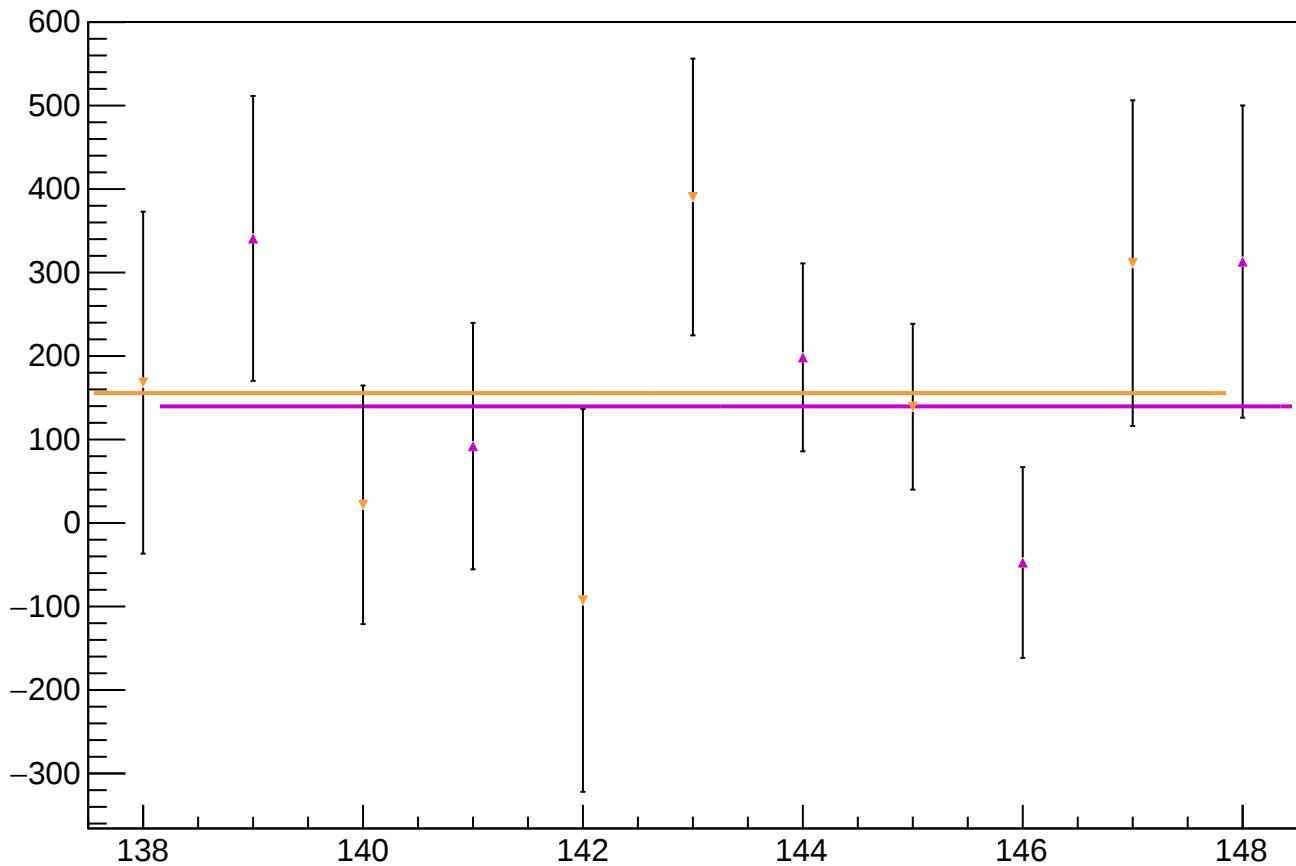
Left In: 128.996+/-0.046  $\chi^2/\text{NDF}$ : 239156.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.802+/-0.032  $\chi^2/\text{NDF}$ : 960010.9/10

- 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: 155.652+/-62.512  $\chi^2/\text{NDF}$ : 4.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

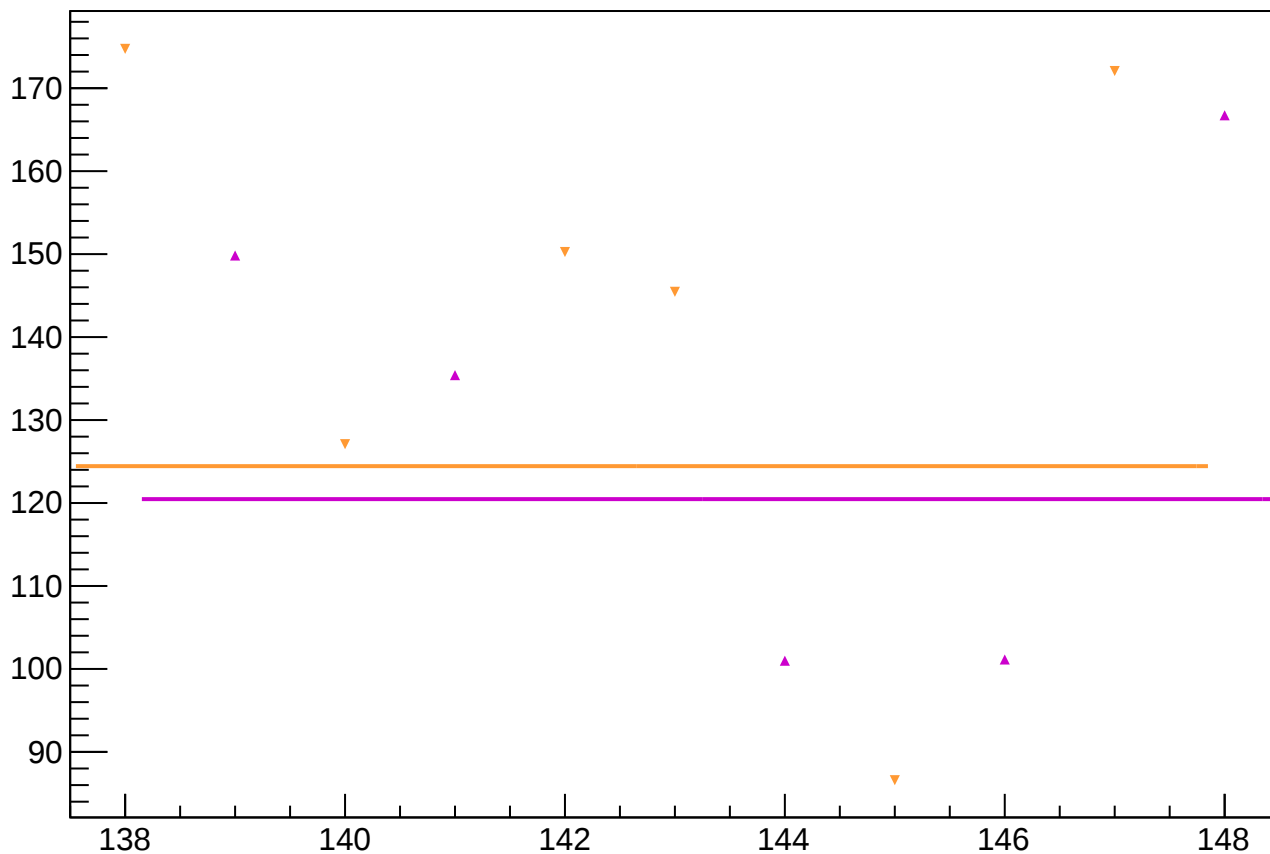
Left In: 139.685+/-61.498  $\chi^2/\text{NDF}$ : 5.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 147.538+/-43.840  $\chi^2/\text{NDF}$ : 10.1/10

- 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: 124.443+/-0.044  $\chi^2/\text{NDF}$ : 588580.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

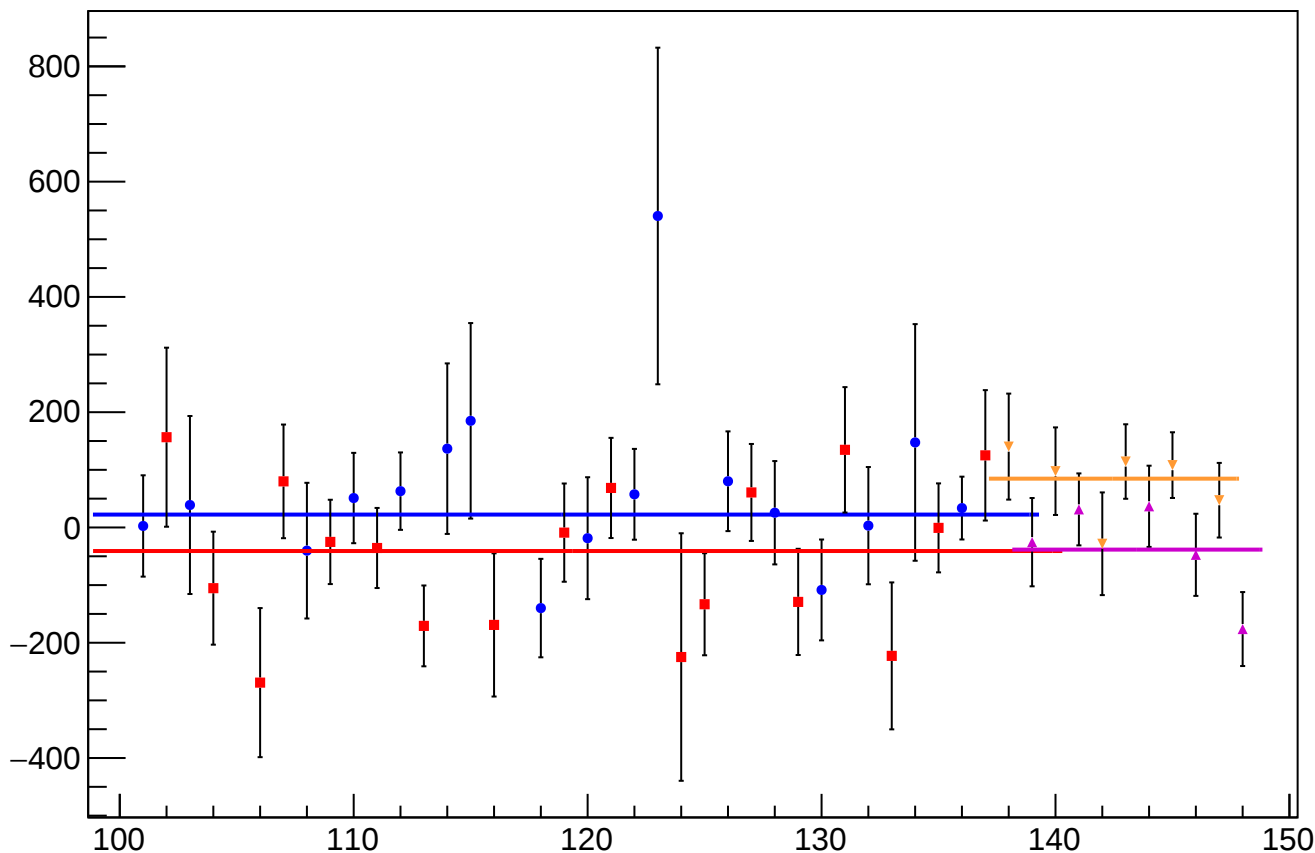
Left In: 120.469+/-0.043  $\chi^2/\text{NDF}$ : 319298.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.423+/-0.031  $\chi^2/\text{NDF}$ : 911986.8/10

- 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: 84.688 $\pm$ 28.829  $\chi^2$ /NDF: 2.7/5

Right Out: -40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

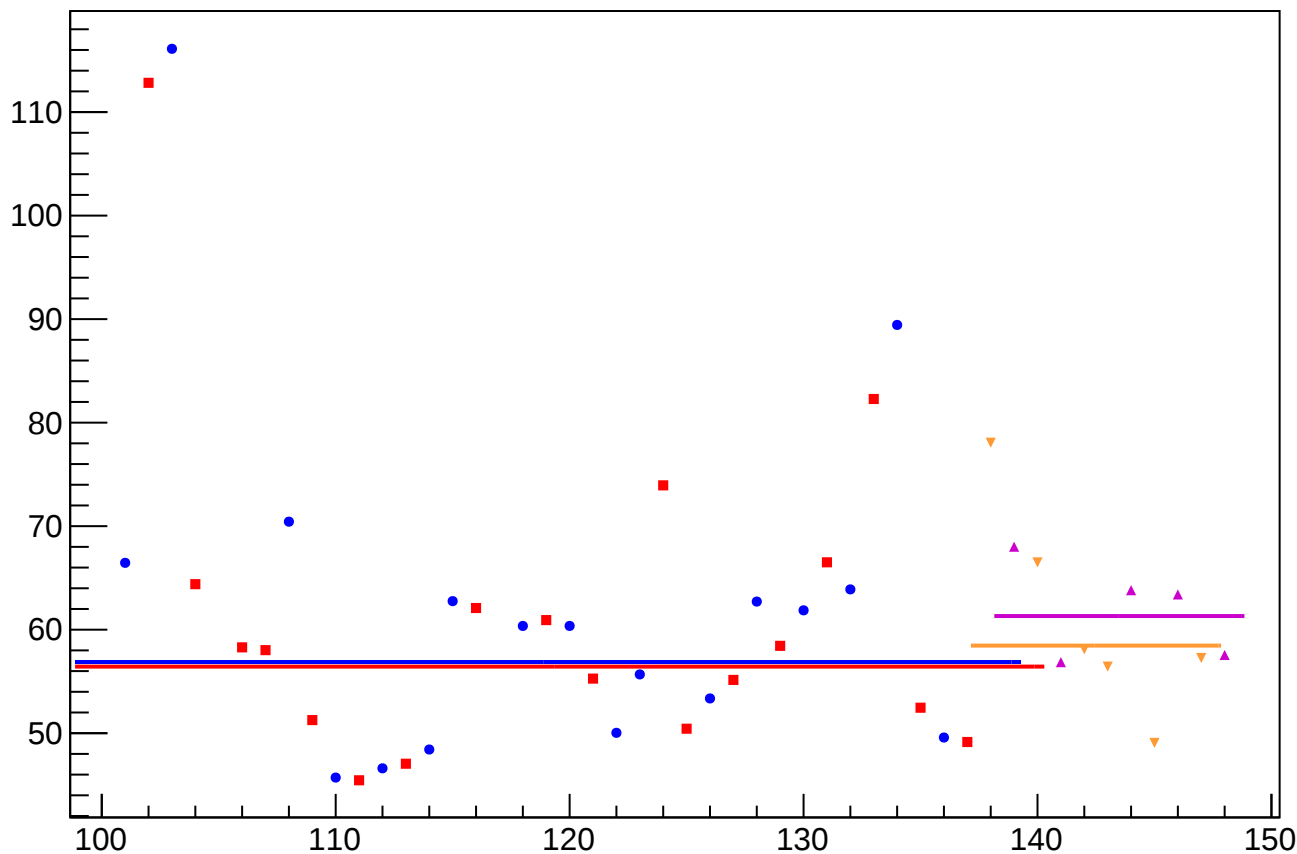
Left In: -38.416 $\pm$ 30.595  $\chi^2$ /NDF: 7.0/4

+ sign 46.118 $\pm$ 17.798  $\chi^2$ /NDF: 18.2/22

All: 3.374 $\pm$ 12.633  $\chi^2$ /NDF: 61.1/45

- sign -40.025 $\pm$ 17.934  $\chi^2$ /NDF: 31.3/22

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 56.879+/-0.016  $\chi^2/\text{NDF}$ : 575487.1/16

Left Out: 58.463+/-0.020  $\chi^2/\text{NDF}$ : 170297.6/5

Right Out: 56.434+/-0.016  $\chi^2/\text{NDF}$ : 520456.9/17

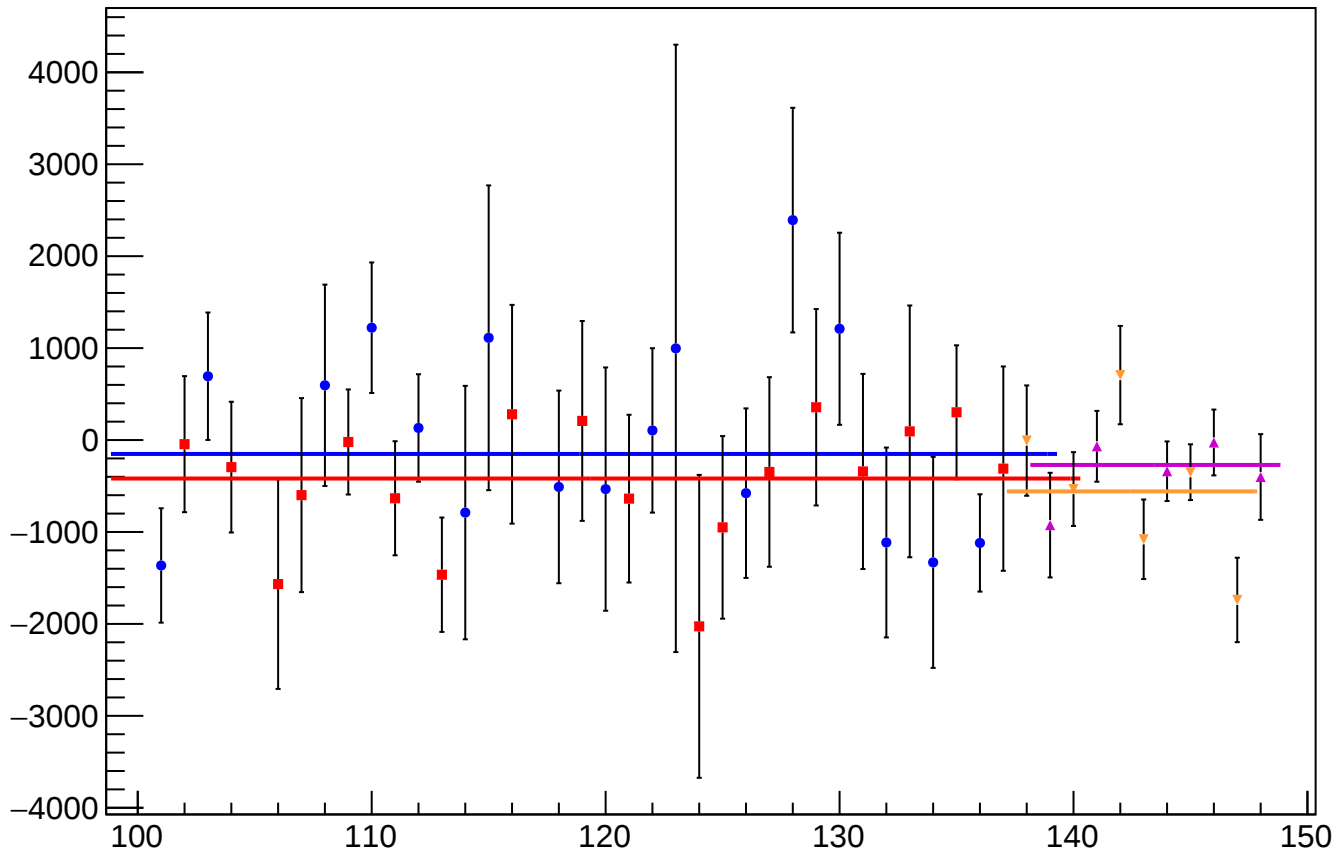
Left In: 61.317+/-0.022  $\chi^2/\text{NDF}$ : 36571.1/4

+ sign 57.482+/-0.013  $\chi^2/\text{NDF}$ : 749520.5/22

All: 57.795+/-0.009  $\chi^2/\text{NDF}$ : 1341232.4/45

- sign 58.112+/-0.013  $\chi^2/\text{NDF}$ : 590470.5/22

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: -151.194+/-212.448  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -558.356+/-172.967  $\chi^2/\text{NDF}$ : 15.0/5

Right Out: -418.554+/-205.061  $\chi^2/\text{NDF}$ : 8.4/17

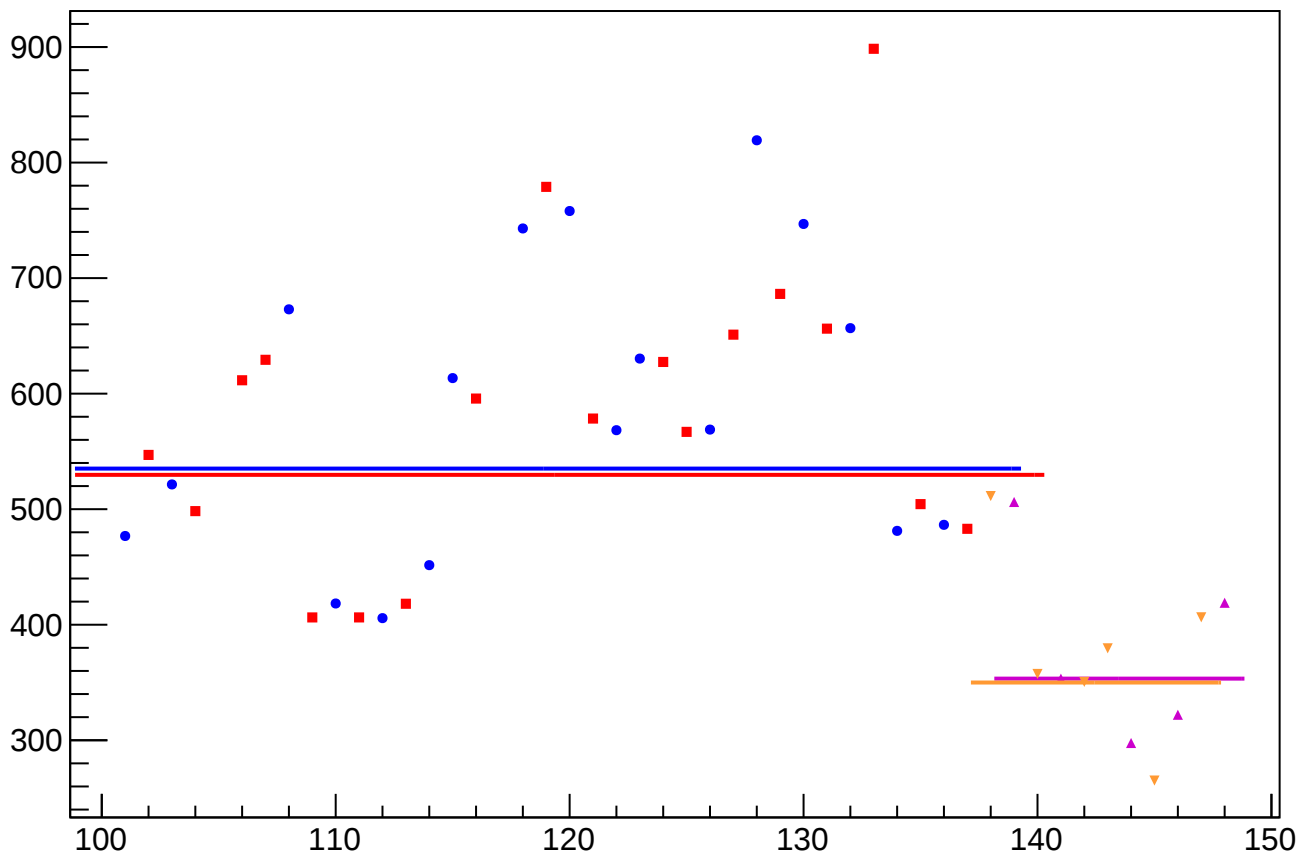
Left In: -270.919+/-177.498  $\chi^2/\text{NDF}$ : 2.2/4

+ sign -396.051+/-134.133  $\chi^2/\text{NDF}$ : 39.6/22

All: -365.119+/-94.872  $\chi^2/\text{NDF}$ : 50.6/45

- sign -334.154+/-134.205  $\chi^2/\text{NDF}$ : 10.9/22

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 535.137 $\pm$ 0.150  $\chi^2$ /NDF: 596084.8/16

Left Out: 349.974 $\pm$ 0.122  $\chi^2$ /NDF: 341331.5/5

Right Out: 529.720 $\pm$ 0.145  $\chi^2$ /NDF: 646725.7/17

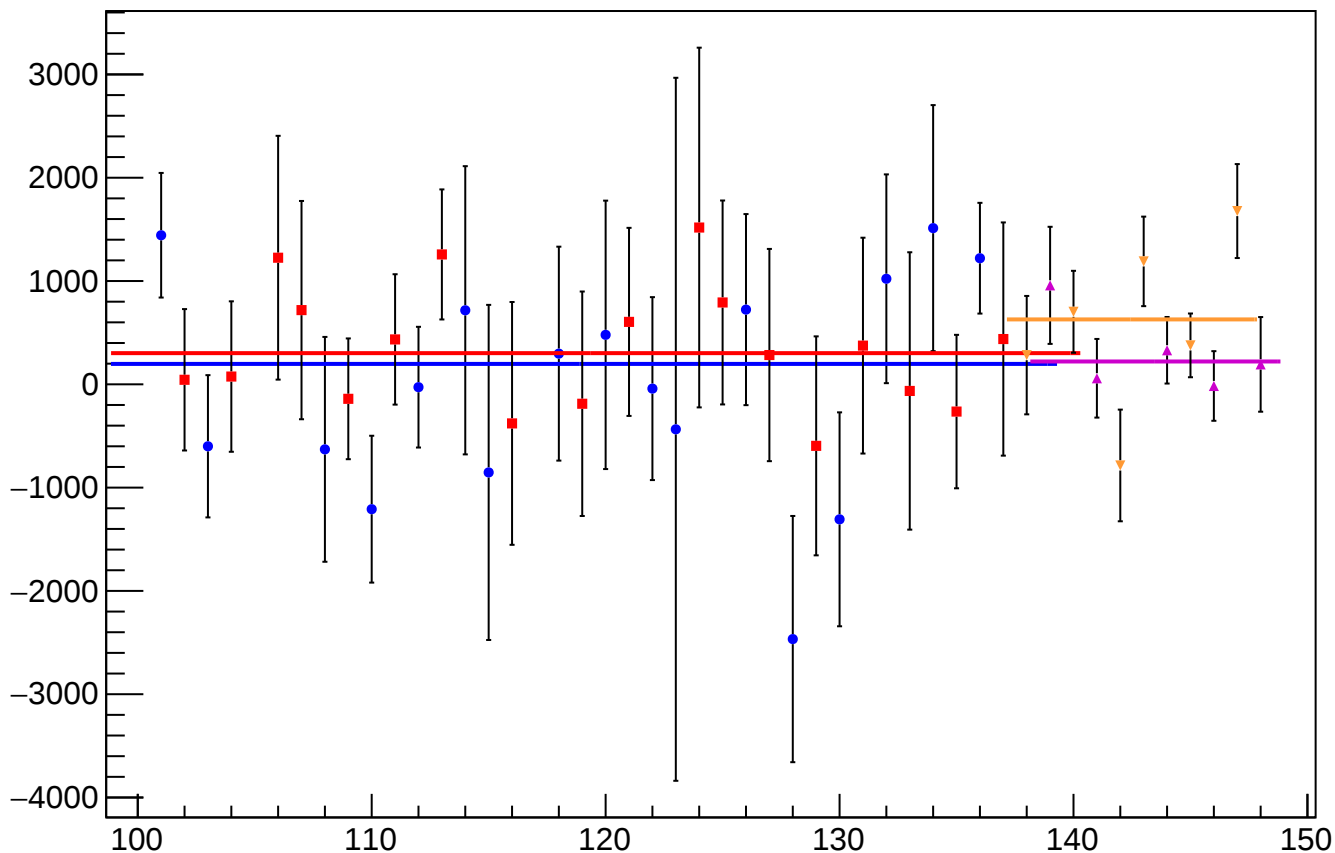
Left In: 353.347 $\pm$ 0.126  $\chi^2$ /NDF: 258357.5/4

+ sign 423.785 $\pm$ 0.095  $\chi^2$ /NDF: 1851064.2/22

All: 426.337 $\pm$ 0.067  $\chi^2$ /NDF: 3603411.9/45

- sign 428.891 $\pm$ 0.095  $\chi^2$ /NDF: 1750899.2/22

# asym\_sam\_1357\_avg\_mean vs Slug



Right In: 197.561 $\pm$ 211.480  $\chi^2$ /NDF: 23.9/16

Left Out: 628.367 $\pm$ 172.805  $\chi^2$ /NDF:14.9/5

Right Out: 301.856 $\pm$ 205.700  $\chi^2$ /NDF: 6.7/17

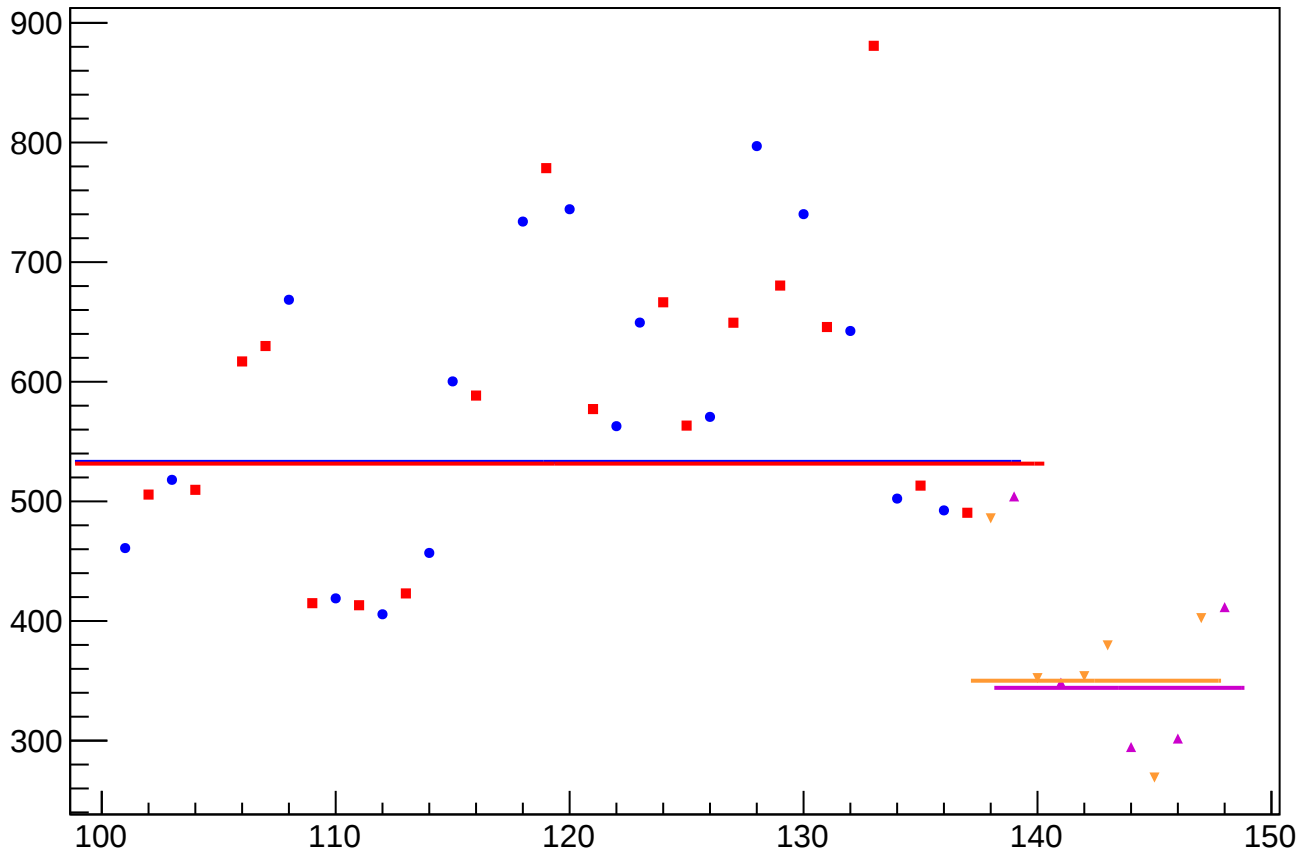
Left In: 221.036 $\pm$ 173.512  $\chi^2$ /NDF:2.5/4

+ sign 455.886 $\pm$ 133.813  $\chi^2$ /NDF: 41.3/22

All: 354.366 $\pm$ 94.199  $\chi^2$ /NDF: 51.7/45

- sign 254.635 $\pm$ 132.629  $\chi^2$ /NDF: 9.3/22

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 533.031+/-0.150  $\chi^2/\text{NDF}$ : 566851.1/16

Left Out: 350.085+/-0.122  $\chi^2/\text{NDF}$ : 285684.2/5

Right Out: 531.559+/-0.145  $\chi^2/\text{NDF}$ : 597920.9/17

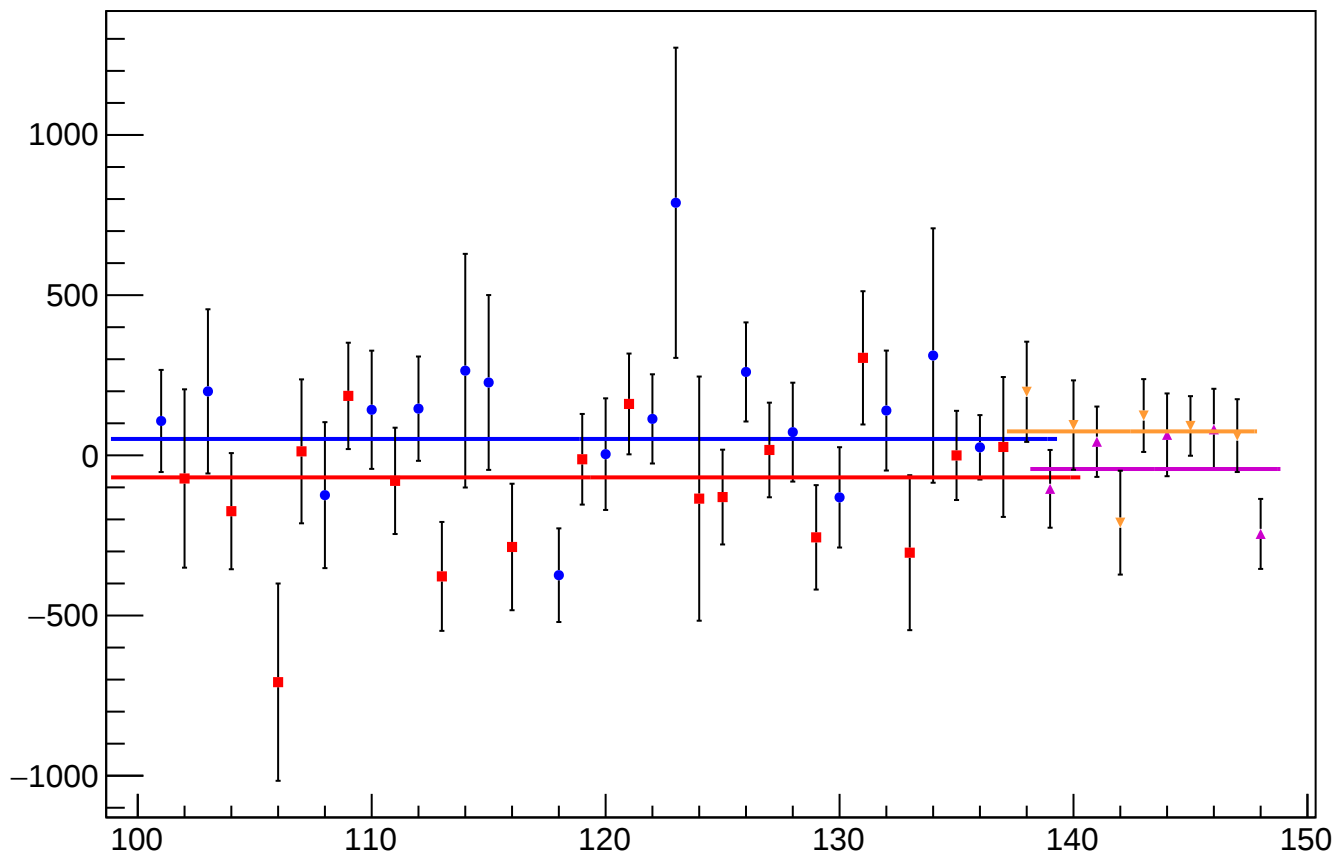
Left In: 344.129+/-0.123  $\chi^2/\text{NDF}$ : 281851.6/4

+ sign 423.331+/-0.095  $\chi^2/\text{NDF}$ : 1750012.5/22

All: 422.684+/-0.067  $\chi^2/\text{NDF}$ : 3600071.3/45

- sign 422.049+/-0.094  $\chi^2/\text{NDF}$ : 1849966.2/22

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 51.166+/-42.416  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 74.761+/-49.951  $\chi^2/\text{NDF}$ : 4.0/5

Right Out: -68.779+/-42.803  $\chi^2/\text{NDF}$ : 20.4/17

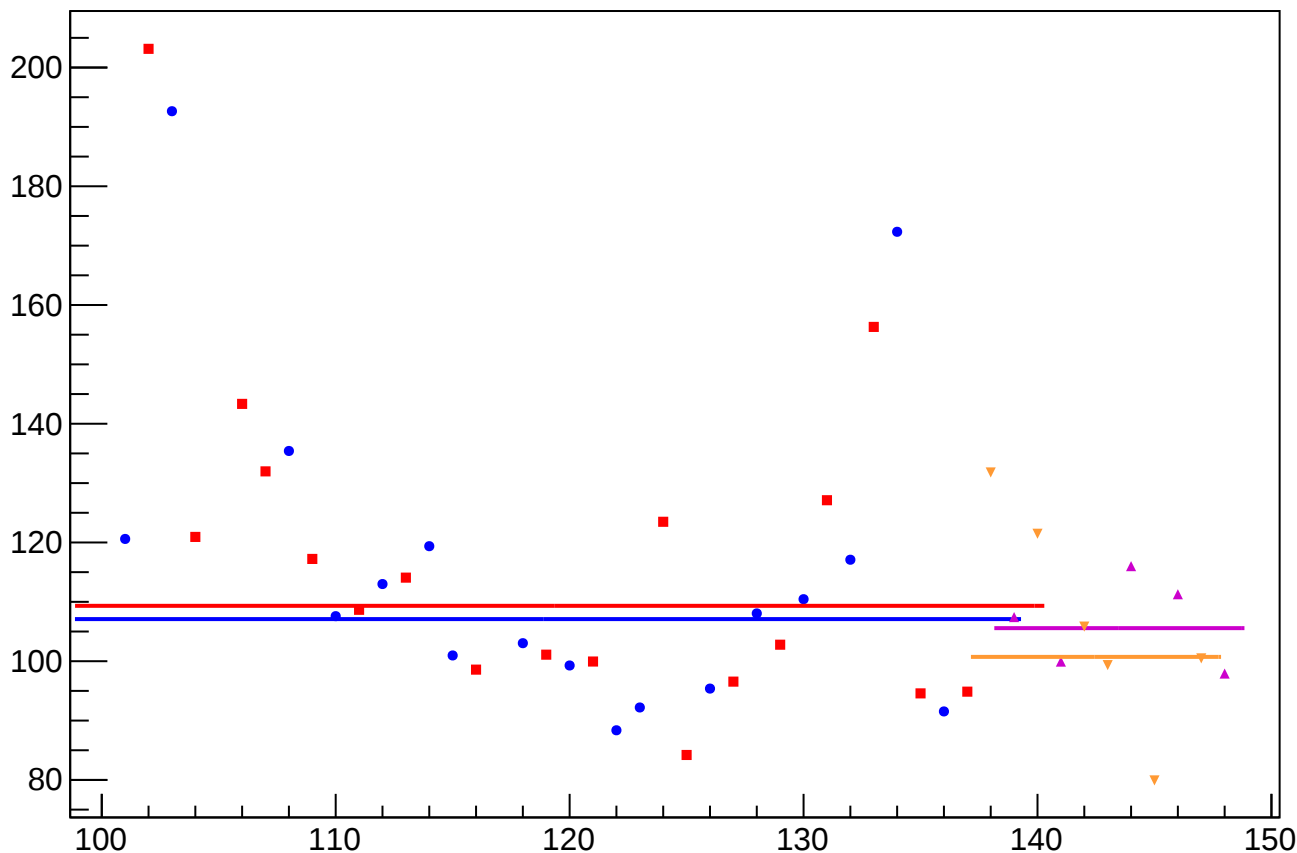
Left In: -42.641+/-52.932  $\chi^2/\text{NDF}$ : 5.9/4

+ sign 61.051+/-32.332  $\chi^2/\text{NDF}$ : 21.5/22

All: 3.035+/-23.191  $\chi^2/\text{NDF}$ : 54.6/45

- sign -58.445+/-33.283  $\chi^2/\text{NDF}$ : 26.5/22

dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In:  $107.094 \pm 0.030$   $\chi^2/\text{NDF}$ : 437755.4/16

Left Out:  $100.728 \pm 0.035$   $\chi^2/\text{NDF}$ : 225533.7/5

Right Out:  $109.329 \pm 0.030$   $\chi^2/\text{NDF}$ : 506023.6/17

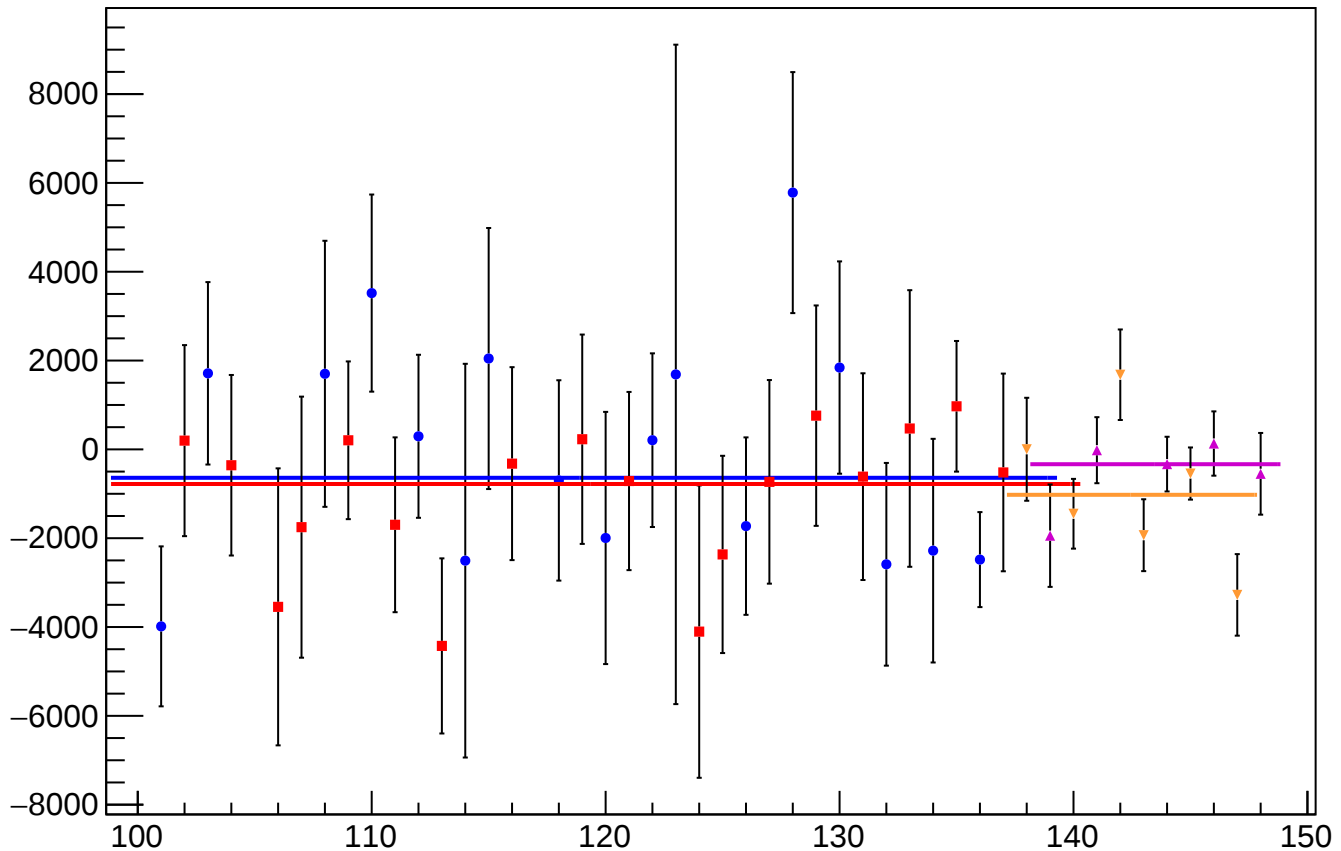
Left In:  $105.569 \pm 0.037$   $\chi^2/\text{NDF}$ : 32685.6/4

+ sign  $104.427 \pm 0.023$   $\chi^2/\text{NDF}$ : 682162.3/22

All:  $106.085 \pm 0.016$   $\chi^2/\text{NDF}$ : 1237811.6/45

- sign  $107.843 \pm 0.024$   $\chi^2/\text{NDF}$ : 544810.2/22

# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In: -639.847 $\pm$ 519.248  $\chi^2$ /NDF: 21.8/16

Left Out: -1022.909 $\pm$ 334.399  $\chi^2$ /NDF:16.1/5

Right Out: -779.450 $\pm$ 516.450  $\chi^2$ /NDF: 8.8/17

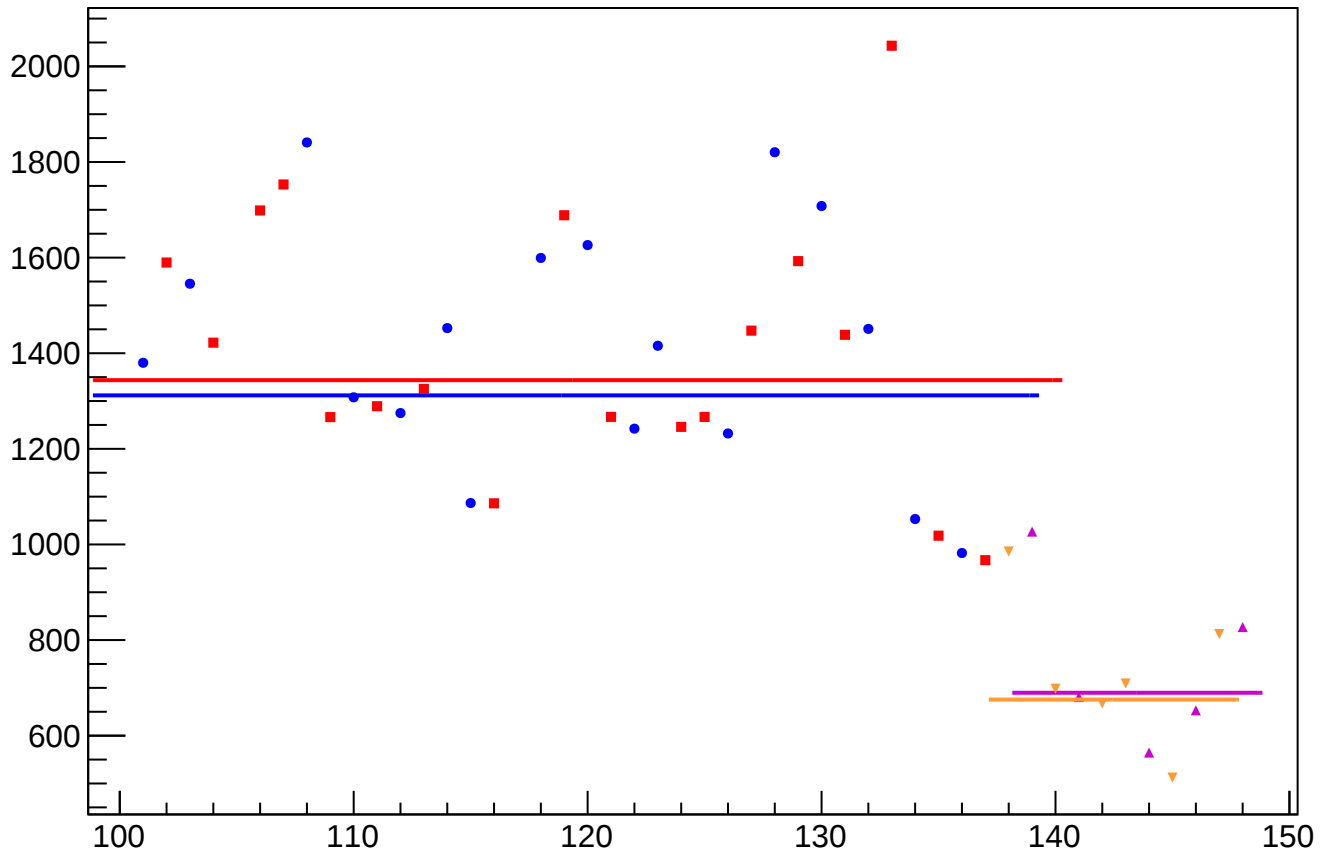
Left In: -333.983 $\pm$ 347.365  $\chi^2$ /NDF:2.6/4

+ sign -910.611 $\pm$ 281.142  $\chi^2$ /NDF: 38.2/22

All: -697.127 $\pm$ 201.258  $\chi^2$ /NDF: 51.3/45

- sign -472.737 $\pm$ 288.233  $\chi^2$ /NDF: 11.9/22

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1311.795 $\pm$ 0.367  $\chi^2$ /NDF: 512676.0/16

Left Out: 675.509 $\pm$ 0.236  $\chi^2$ /NDF: 347171.2/5

Right Out: 1343.659 $\pm$ 0.365  $\chi^2$ /NDF: 461009.9/17

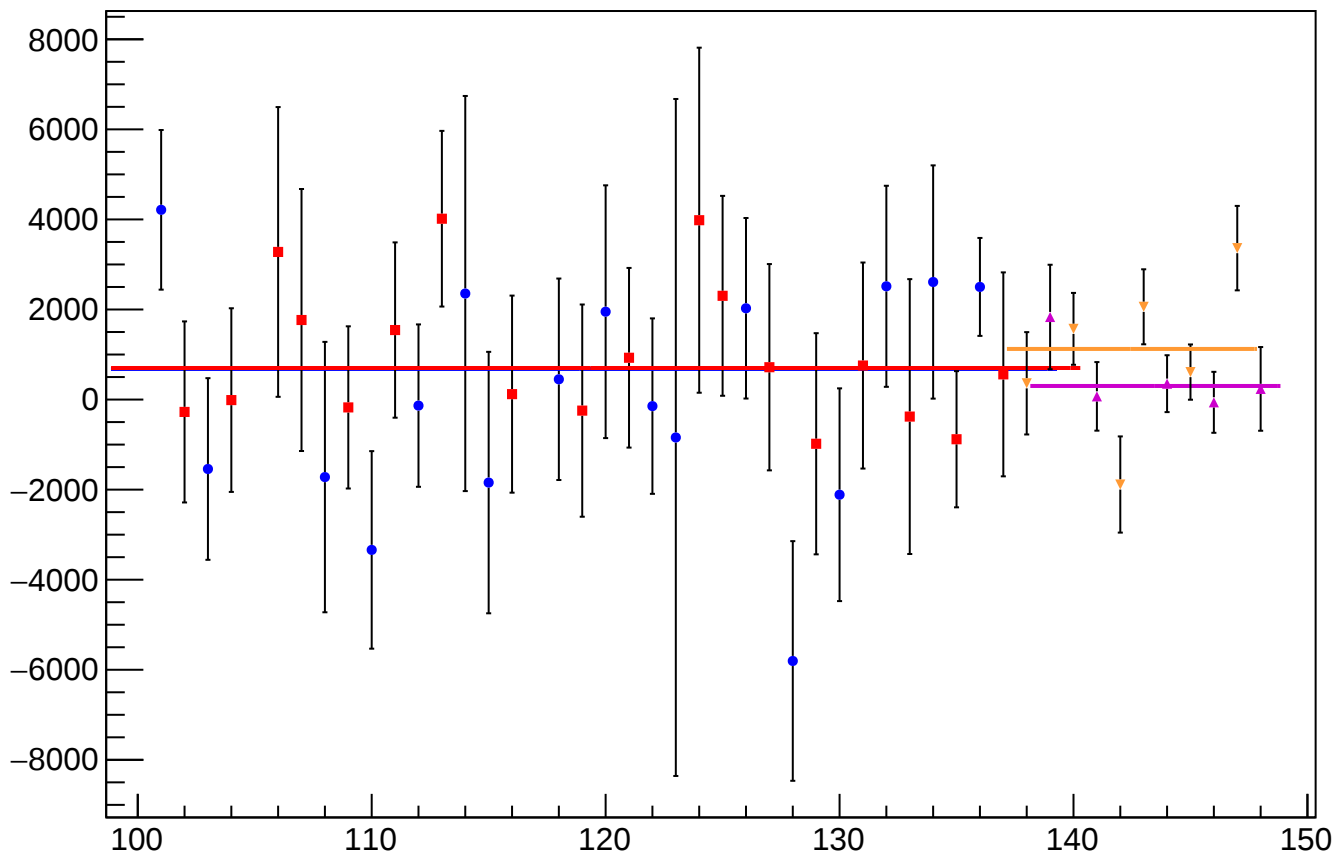
Left In: 689.762 $\pm$ 0.246  $\chi^2$ /NDF: 303600.0/4

+ sign 862.041 $\pm$ 0.199  $\chi^2$ /NDF: 2982641.5/22

All: 877.349 $\pm$ 0.142  $\chi^2$ /NDF: 5966945.8/45

- sign 893.439 $\pm$ 0.204  $\chi^2$ /NDF: 2972142.8/22

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 679.925 $\pm$ 517.508  $\chi^2$ /NDF: 22.6/16

Left Out: 1124.220 $\pm$ 343.871  $\chi^2$ /NDF:16.4/5

Right Out: 700.930 $\pm$ 517.319  $\chi^2$ /NDF: 7.6/17

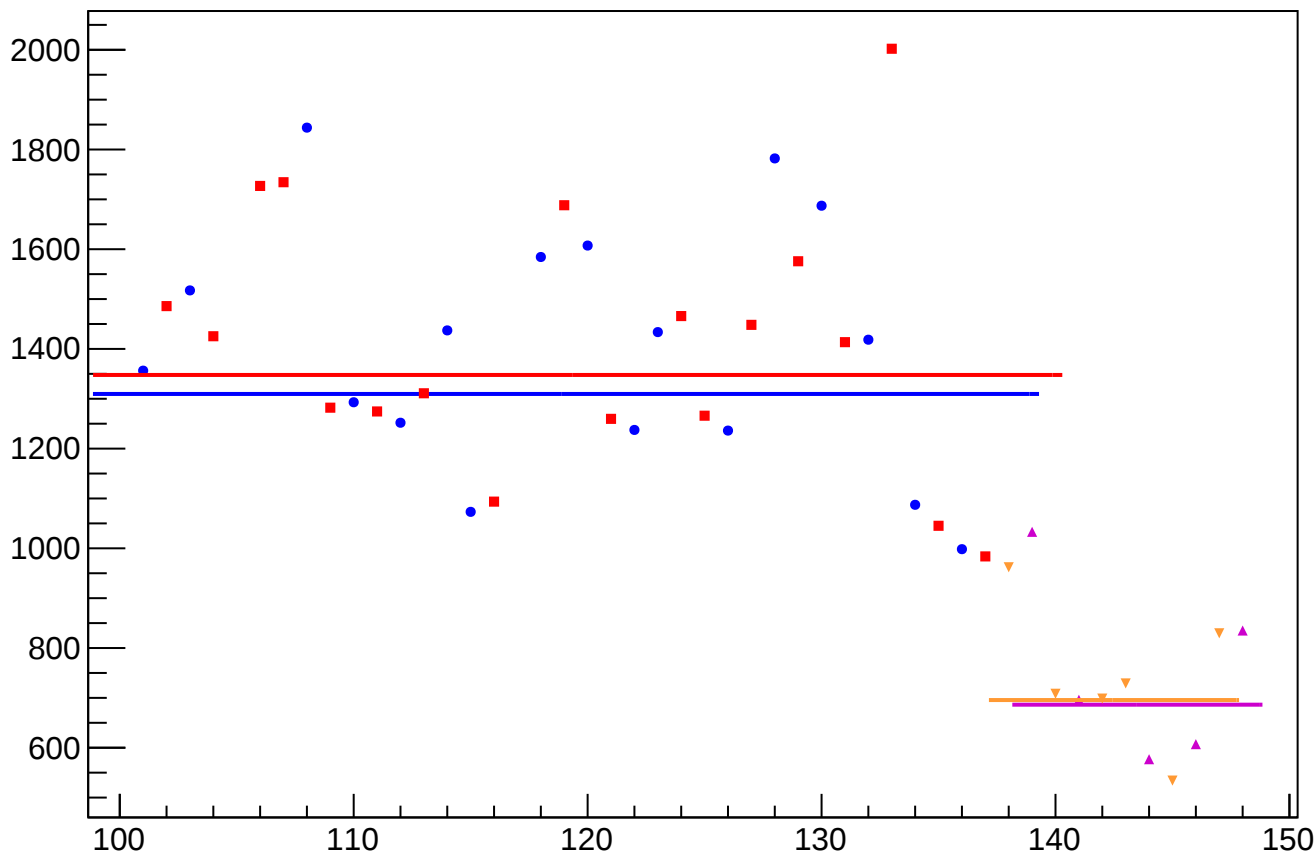
Left In: 301.892 $\pm$ 346.777  $\chi^2$ /NDF:2.1/4

+ sign 988.136 $\pm$ 286.408  $\chi^2$ /NDF: 39.4/22

All: 708.478 $\pm$ 203.098  $\chi^2$ /NDF: 51.5/45

- sign 425.608 $\pm$ 288.047  $\chi^2$ /NDF: 10.2/22

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1309.654+/-0.366  $\chi^2/\text{NDF}$ : 459314.8/16

Left Out: 695.638+/-0.243  $\chi^2/\text{NDF}$ : 293028.8/5

Right Out: 1347.768+/-0.366  $\chi^2/\text{NDF}$ : 405345.0/17

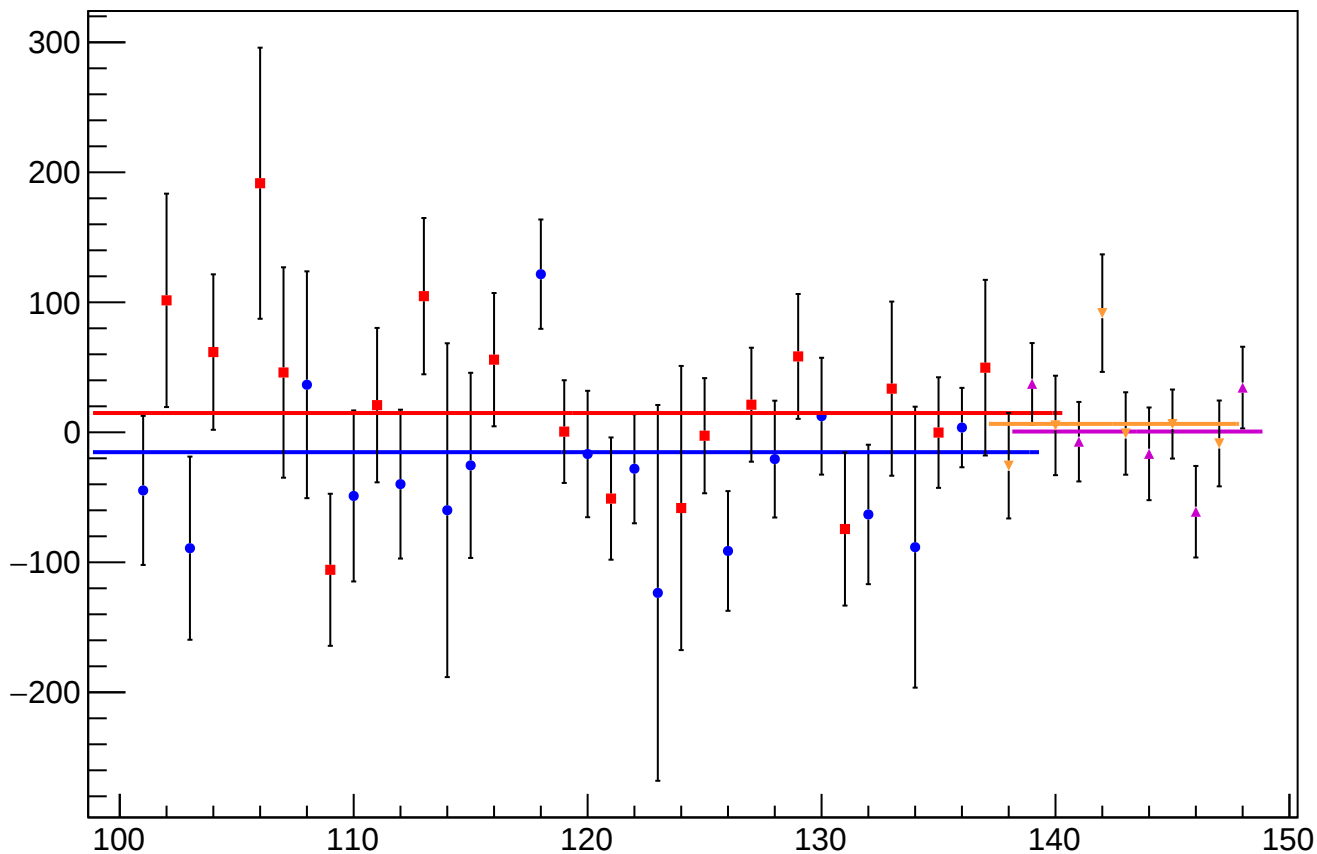
Left In: 686.345+/-0.245  $\chi^2/\text{NDF}$ : 317675.3/4

+ sign 883.706+/-0.203  $\chi^2/\text{NDF}$ : 2705482.2/22

All: 887.535+/-0.144  $\chi^2/\text{NDF}$ : 5685007.4/45

- sign 891.409+/-0.204  $\chi^2/\text{NDF}$ : 2978805.9/22

# 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: 6.480 $\pm$ 13.989  $\chi^2/\text{NDF}$ : 4.4/5

Right Out: 14.839 $\pm$ 13.097  $\chi^2/\text{NDF}$ : 18.2/17

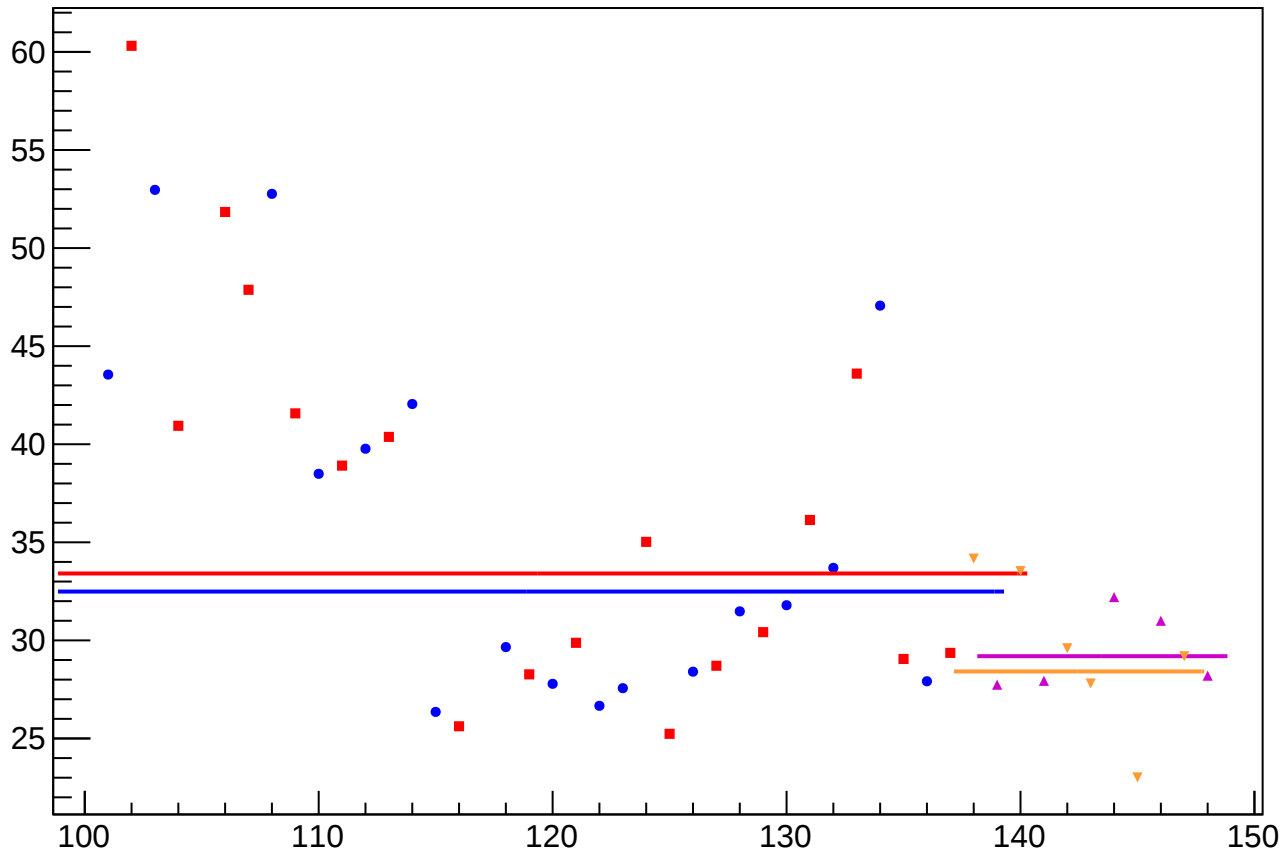
Left In: 0.590 $\pm$ 14.599  $\chi^2/\text{NDF}$ : 5.9/4

+ sign -5.274 $\pm$ 9.486  $\chi^2/\text{NDF}$ : 24.1/22

All: 1.417 $\pm$ 6.799  $\chi^2/\text{NDF}$ : 49.7/45

- sign 8.485 $\pm$ 9.749  $\chi^2/\text{NDF}$ : 24.6/22

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.489 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 594480.9/16

Left Out: 28.417 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 161927.2/5

Right Out: 33.411 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 725189.8/17

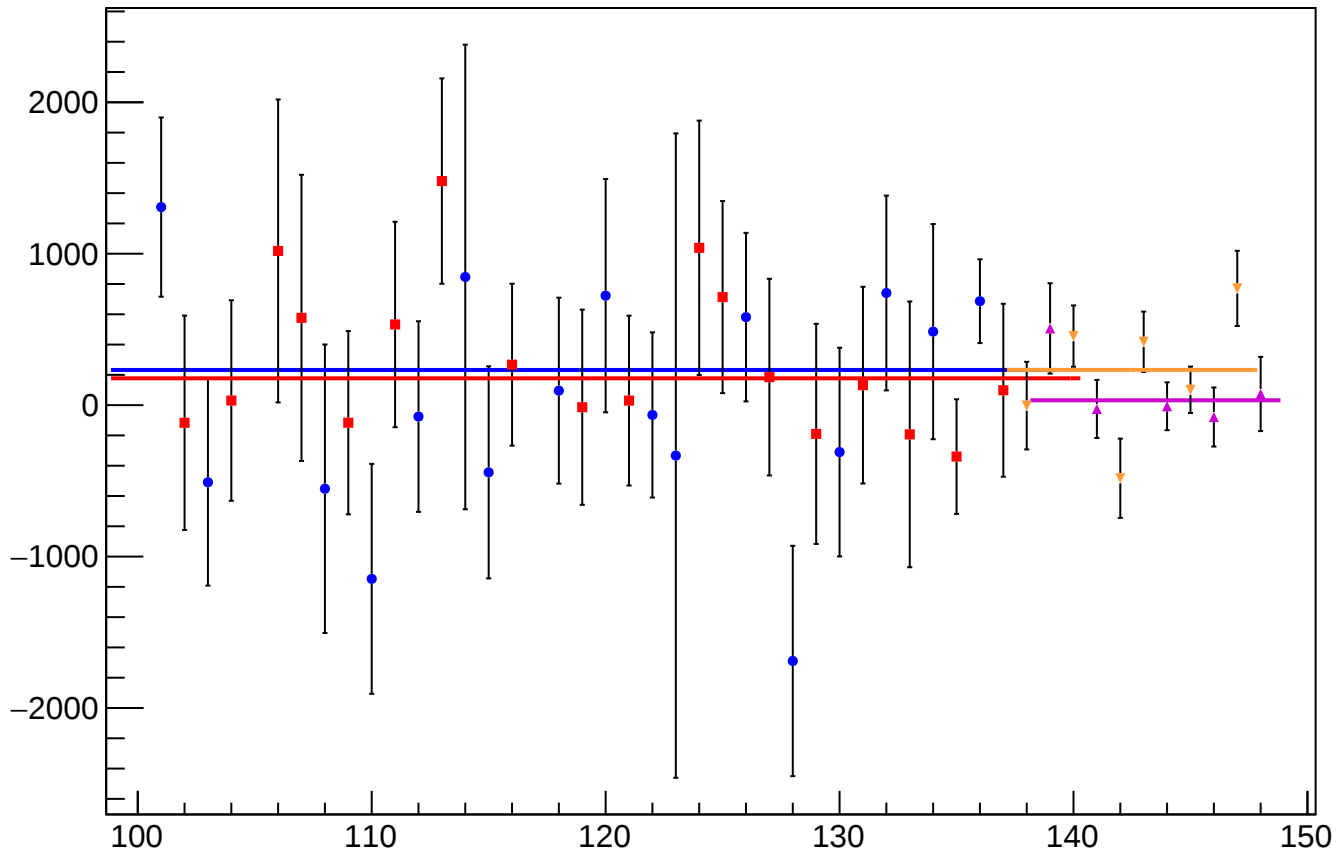
Left In: 29.195 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 29201.2/4

+ sign 30.617 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 847944.1/22

All: 31.061 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 1703799.6/45

- sign 31.531 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 846821.2/22

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 232.332 $\pm$ 148.607  $\chi^2$ /NDF: 21.5/16

Left Out: 232.755 $\pm$ 86.085  $\chi^2$ /NDF:15.7/5

Right Out: 177.151 $\pm$ 150.003  $\chi^2$ /NDF: 9.6/17

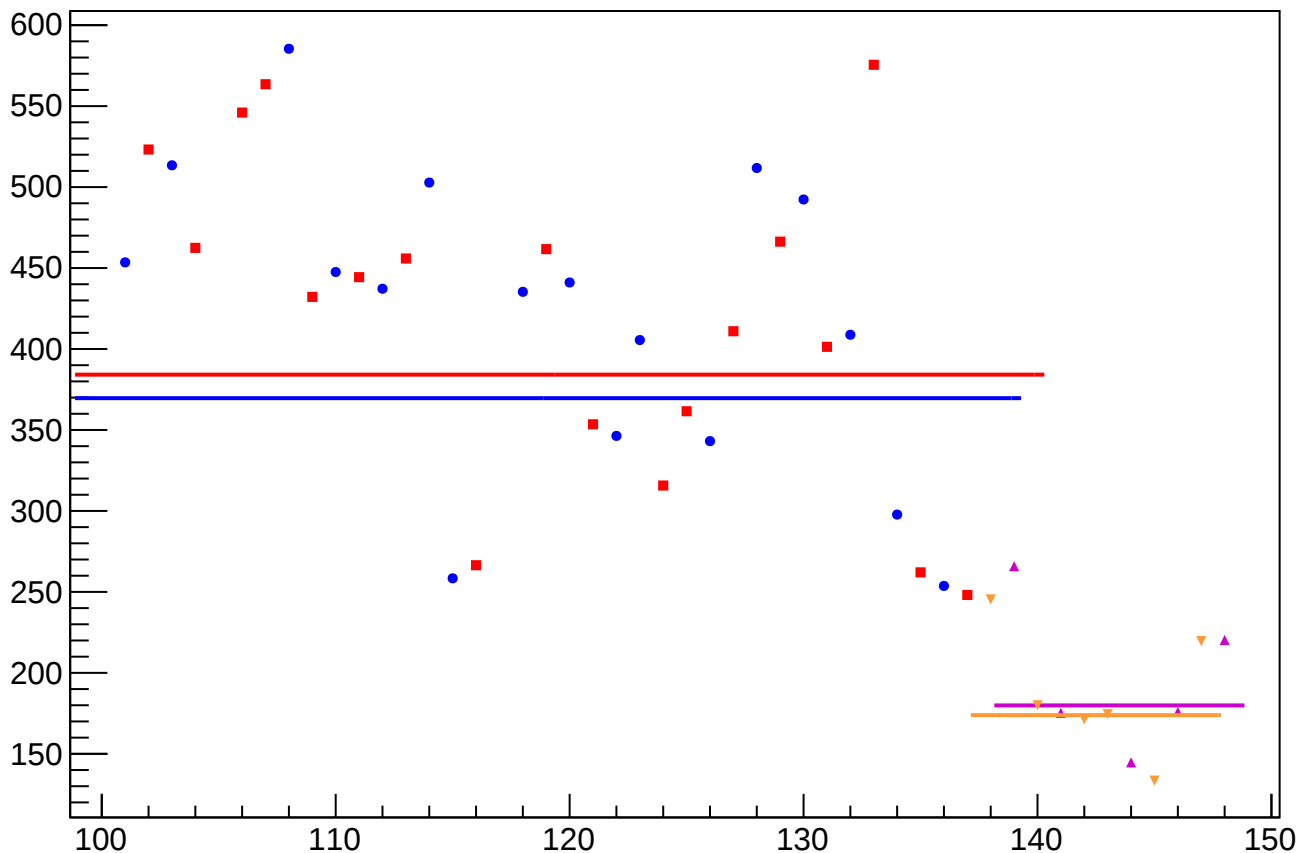
Left In: 31.960 $\pm$ 90.717  $\chi^2$ /NDF:3.0/4

+ sign 232.649 $\pm$ 74.490  $\chi^2$ /NDF: 37.1/22

All: 155.079 $\pm$ 53.747  $\chi^2$ /NDF: 52.7/45

- sign 70.842 $\pm$ 77.625  $\chi^2$ /NDF: 13.3/22

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 369.650 $\pm$ 0.105  $\chi^2$ /NDF: 902775.2/16

Left Out: 173.891 $\pm$ 0.061  $\chi^2$ /NDF: 331310.5/5

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

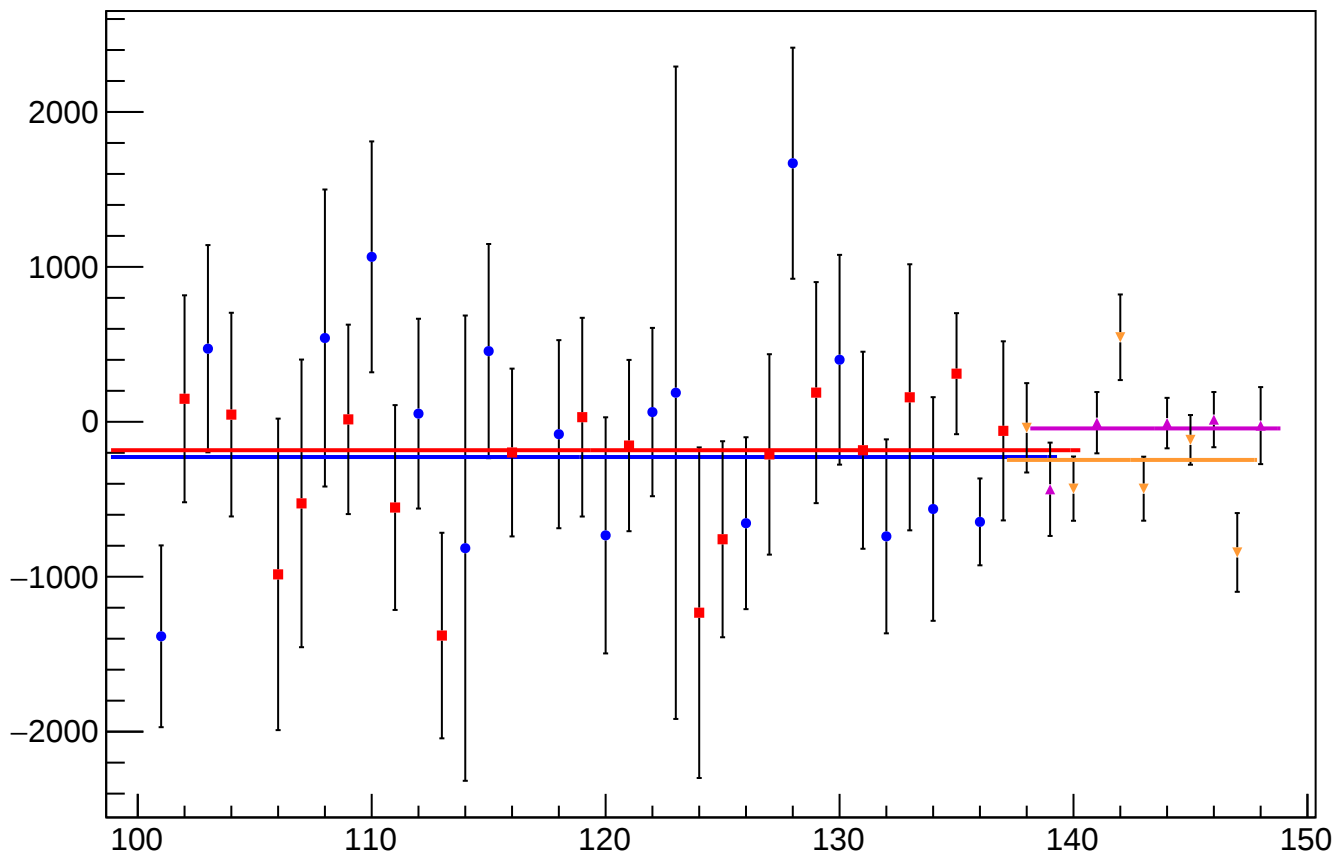
Left In: 179.900 $\pm$ 0.064  $\chi^2$ /NDF: 321630.9/4

+ sign 223.076 $\pm$ 0.053  $\chi^2$ /NDF: 3832612.1/22

All: 228.602 $\pm$ 0.038  $\chi^2$ /NDF: 7767845.3/45

- sign 234.604 $\pm$ 0.055  $\chi^2$ /NDF: 3912271.2/22

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-246.056 \pm 89.036$   $\chi^2/\text{NDF}$ : 16.5/5

Right Out:  $-183.318 \pm 150.486$   $\chi^2/\text{NDF}$ : 8.8/17

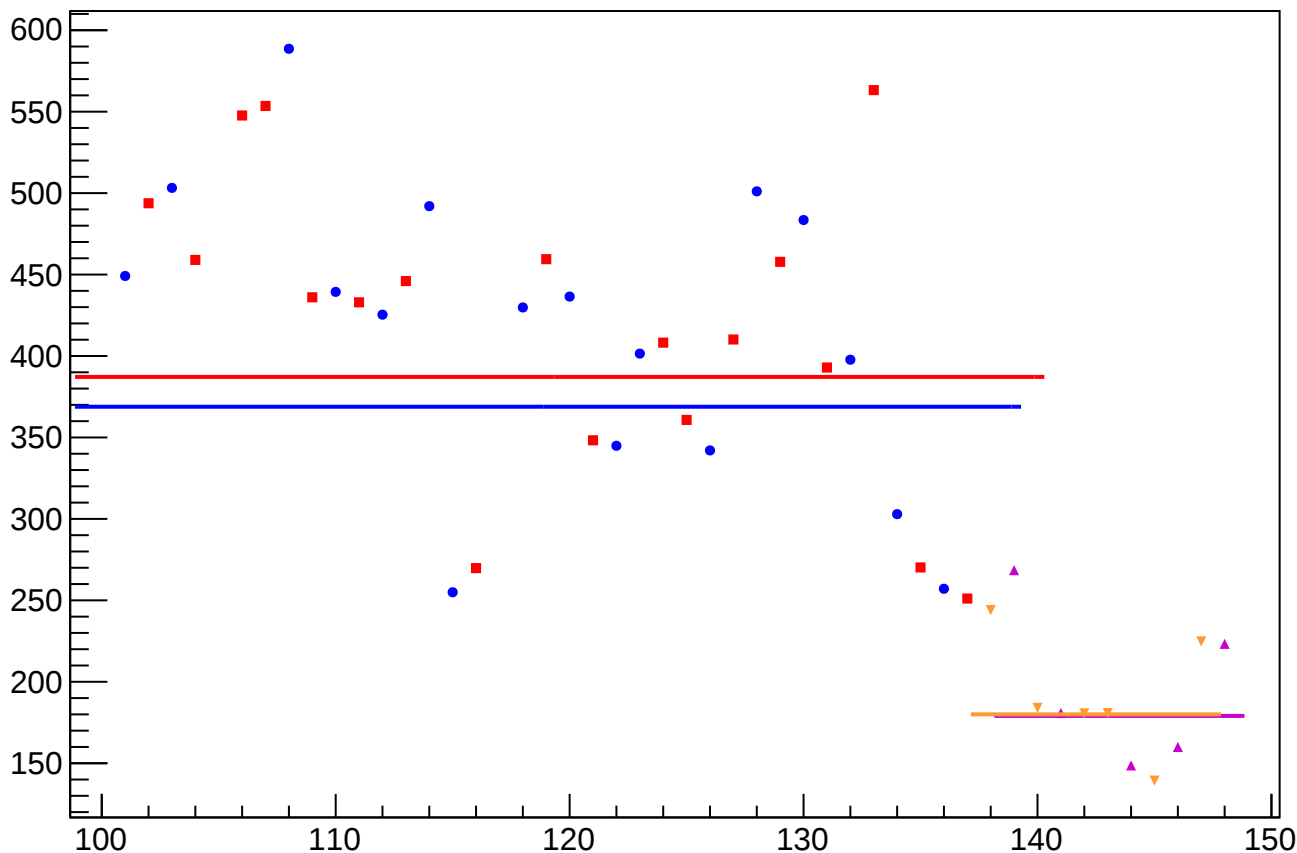
Left In:  $-42.702 \pm 90.554$   $\chi^2/\text{NDF}$ : 1.9/4

+ sign  $-241.062 \pm 76.283$   $\chi^2/\text{NDF}$ : 38.3/22

All:  $-161.939 \pm 54.396$   $\chi^2/\text{NDF}$ : 51.9/45

- sign  $-80.083 \pm 77.590$   $\chi^2/\text{NDF}$ : 11.3/22

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.864 $\pm$ 0.105  $\chi^2/\text{NDF}$ : 829732.0/16

Left Out: 180.016 $\pm$ 0.063  $\chi^2/\text{NDF}$ : 290129.5/5

Right Out: 387.165 $\pm$ 0.106  $\chi^2/\text{NDF}$ : 758108.0/17

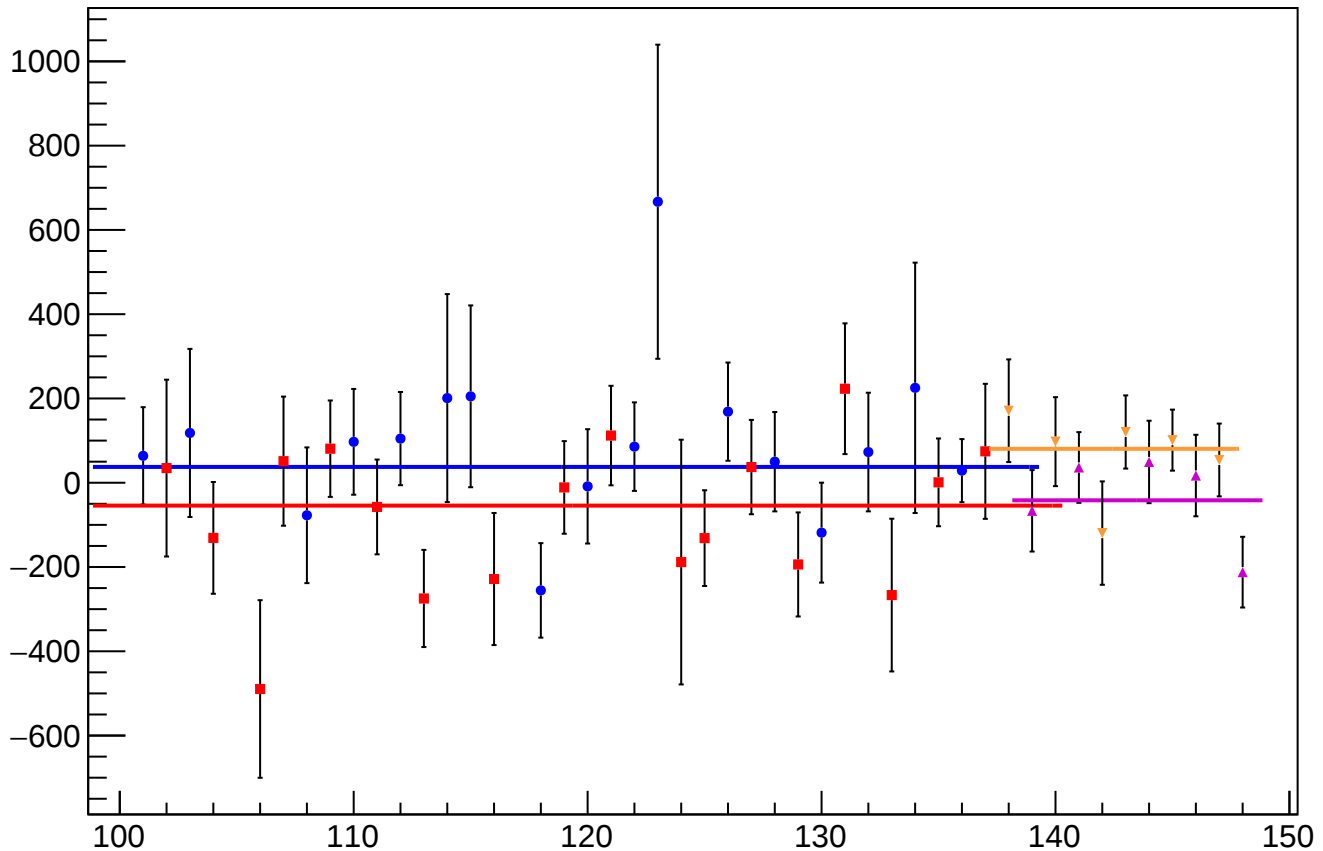
Left In: 179.062 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 332513.8/4

+ sign 230.239 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 3512693.4/22

All: 232.276 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 7414142.9/45

- sign 234.383 $\pm$ 0.055  $\chi^2/\text{NDF}$ : 3898547.7/22

dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 37.535 $\pm$ 31.460  $\chi^2$ /NDF: 15.8/16

Left Out: 80.502 $\pm$ 38.328  $\chi^2$ /NDF: 3.6/5

Right Out: -54.274 $\pm$ 31.489  $\chi^2$ /NDF: 21.8/17

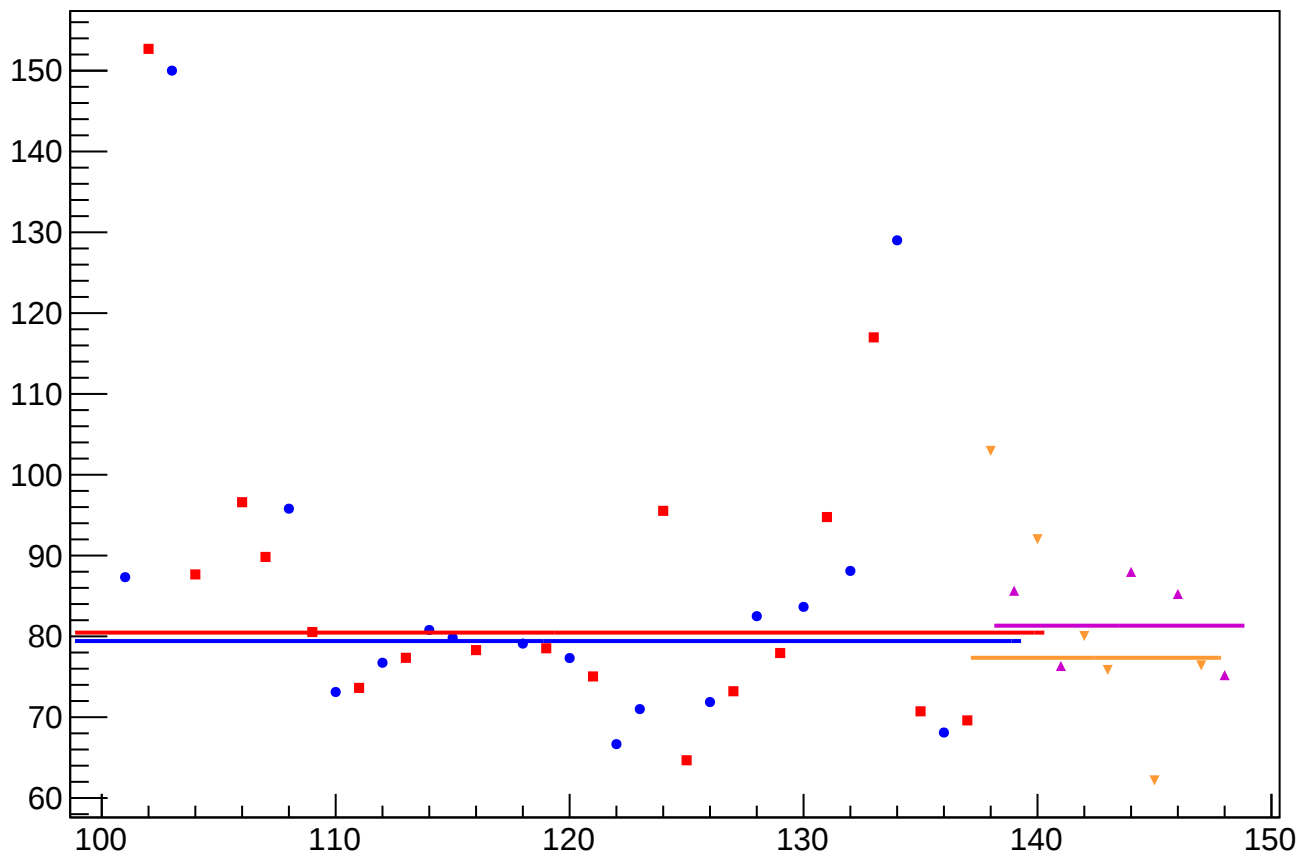
Left In: -41.702 $\pm$ 40.732  $\chi^2$ /NDF: 6.3/4

+ sign 54.831 $\pm$ 24.317  $\chi^2$ /NDF: 20.2/22

All: 3.892 $\pm$ 17.402  $\chi^2$ /NDF: 57.4/45

- sign -49.571 $\pm$ 24.913  $\chi^2$ /NDF: 28.1/22

dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 79.421 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 439047.1/16

Left Out: 77.350 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 216462.0/5

Right Out: 80.465 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 454376.0/17

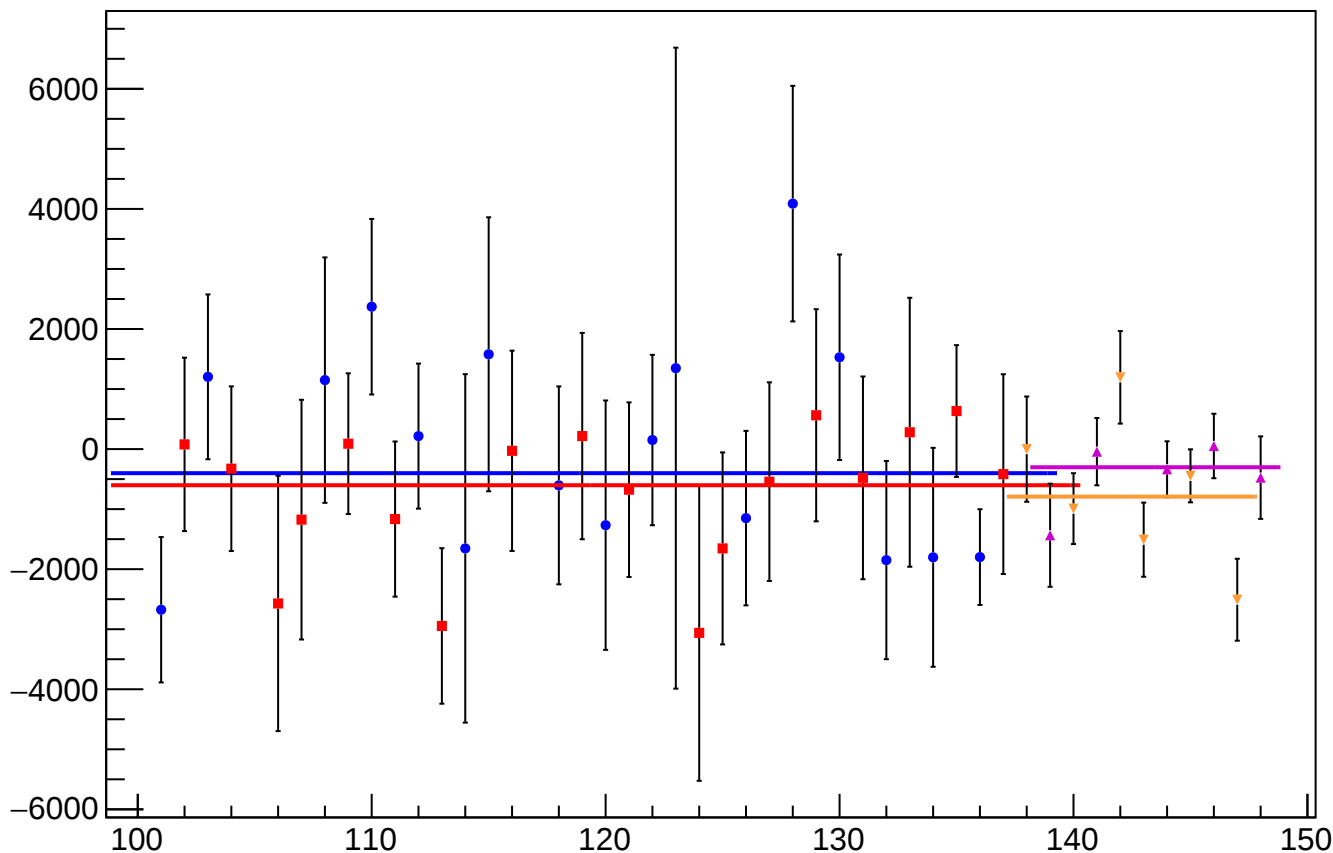
Left In: 81.324 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 34276.4/4

+ sign 78.588 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 658997.9/22

All: 79.661 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 1156185.2/45

- sign 80.787 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 489208.5/22

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: -401.047+/-368.480  $\chi^2/\text{NDF}$ : 21.9/16

Left Out: -791.344+/-251.898  $\chi^2/\text{NDF}$ : 15.9/5

Right Out: -601.891+/-363.668  $\chi^2/\text{NDF}$ : 8.7/17

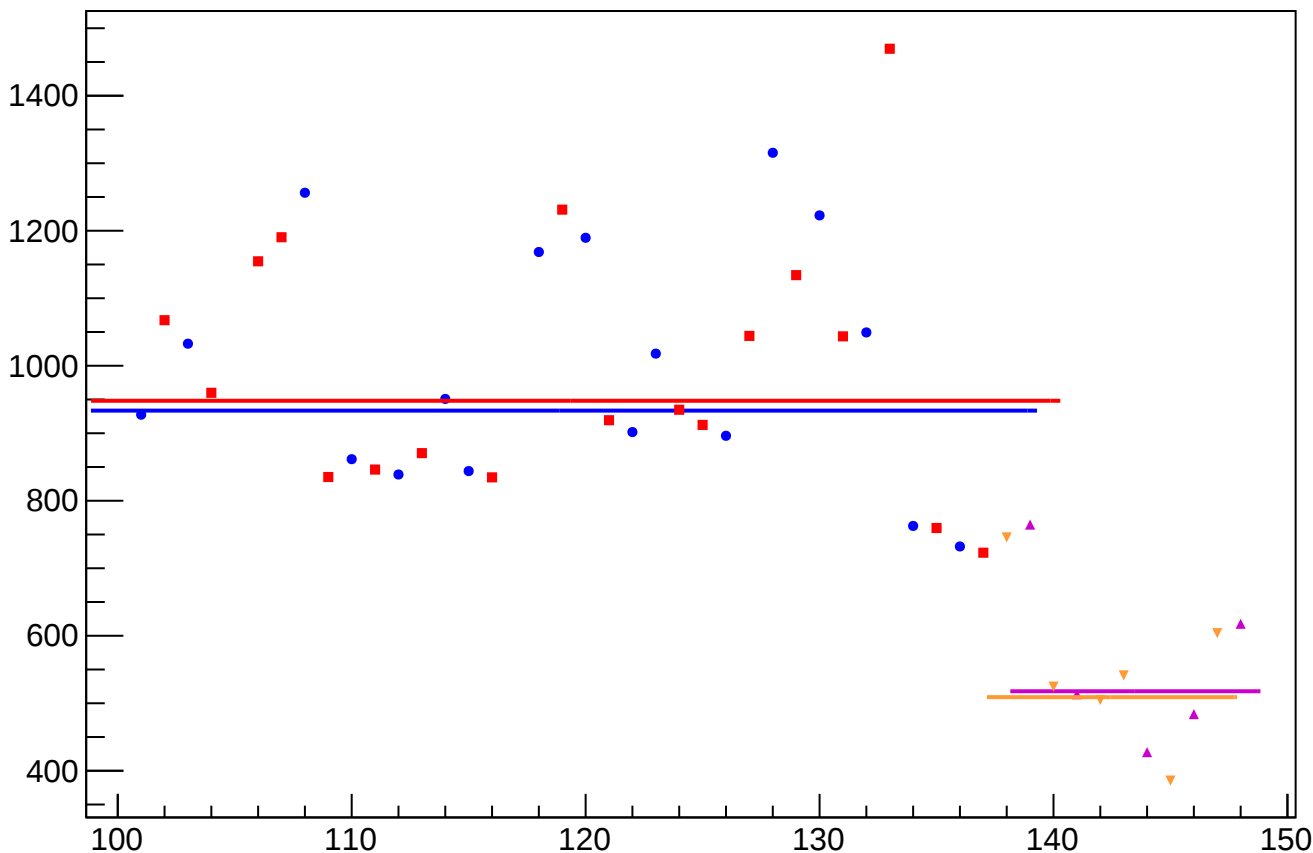
Left In: -302.570+/-260.540  $\chi^2/\text{NDF}$ : 2.5/4

+ sign -667.039+/-207.951  $\chi^2/\text{NDF}$ : 38.6/22

All: -537.975+/-148.384  $\chi^2/\text{NDF}$ : 50.9/45

- sign -404.093+/-211.796  $\chi^2/\text{NDF}$ : 11.6/22

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 933.530 $\pm$ 0.261  $\chi^2$ /NDF: 442321.9/16

Left Out: 509.047 $\pm$ 0.178  $\chi^2$ /NDF:348074.5/5

Right Out: 948.131 $\pm$ 0.257  $\chi^2$ /NDF: 405153.7/17

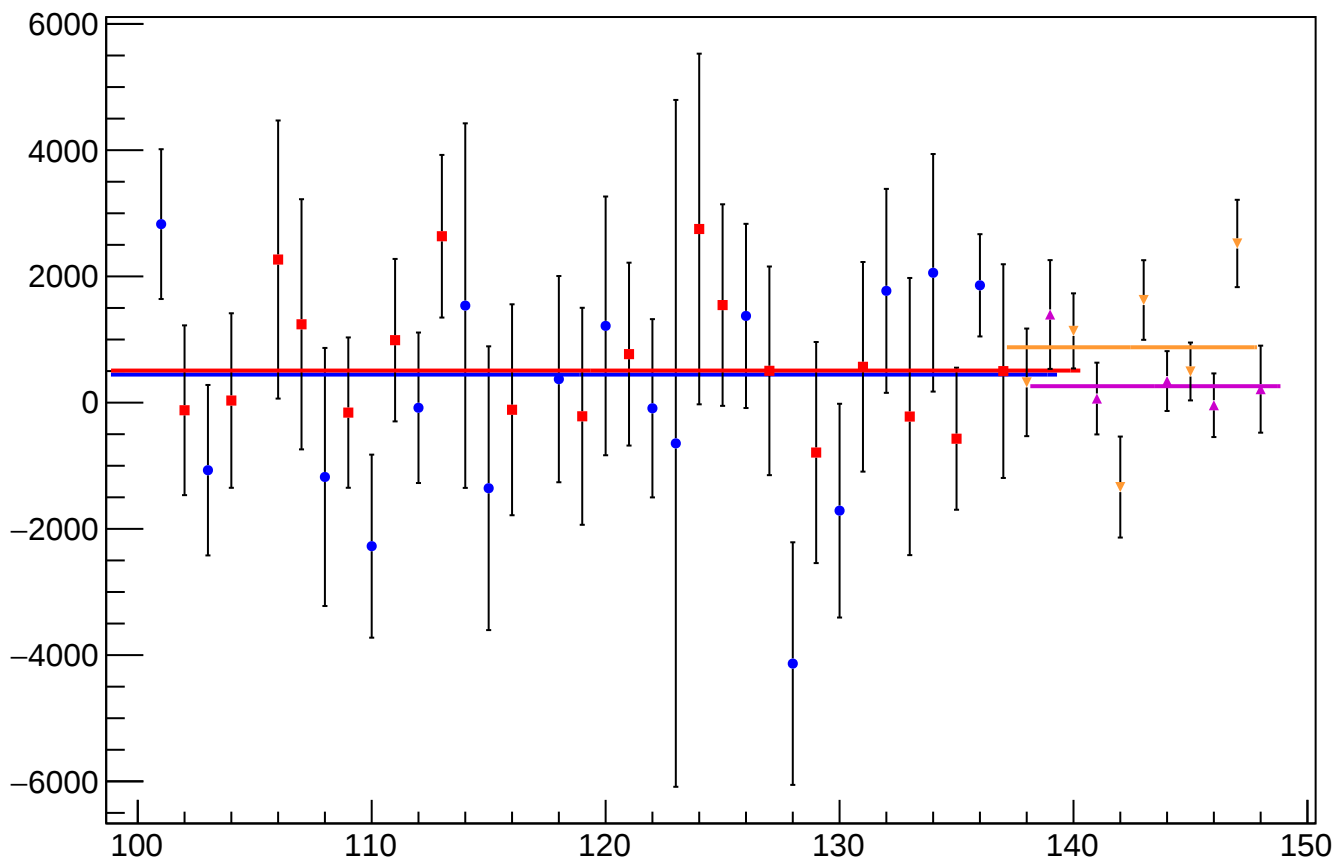
Left In: 517.765 $\pm$ 0.184  $\chi^2$ /NDF:290686.0/4

+ sign 644.240 $\pm$ 0.147  $\chi^2$ /NDF: 2599226.4/22

All: 653.809 $\pm$ 0.105  $\chi^2$ /NDF: 5154587.2/45

- sign 663.736 $\pm$ 0.150  $\chi^2$ /NDF: 2546732.4/22

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 444.669 $\pm$ 367.099  $\chi^2$ /NDF: 22.9/16

Left Out: 877.290 $\pm$ 257.142  $\chi^2$ /NDF:16.0/5

Right Out: 508.221 $\pm$ 364.112  $\chi^2$ /NDF: 7.3/17

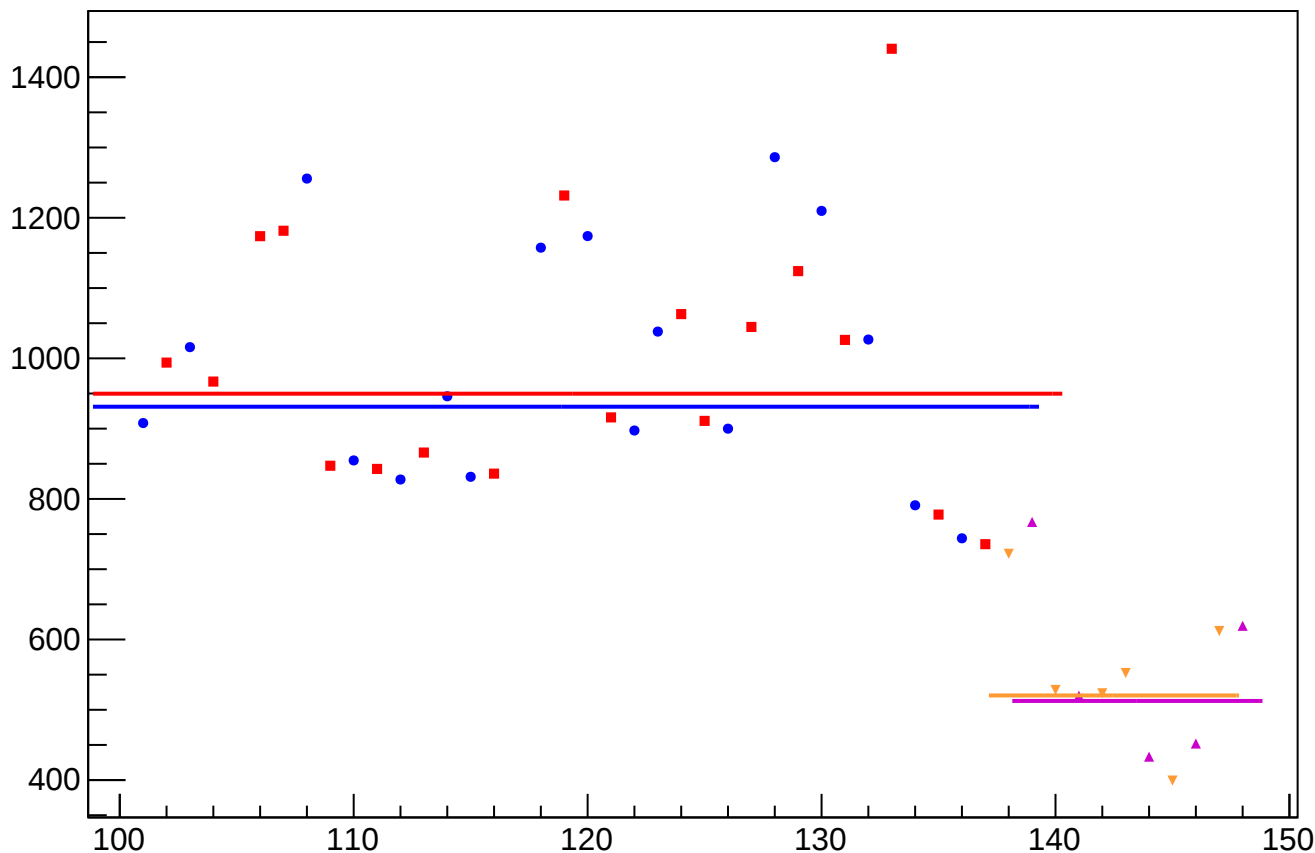
Left In: 260.579 $\pm$ 258.833  $\chi^2$ /NDF:2.2/4

+ sign 734.891 $\pm$ 210.612  $\chi^2$ /NDF: 39.9/22

All: 539.625 $\pm$ 149.049  $\chi^2$ /NDF: 51.4/45

- sign 343.710 $\pm$ 210.962  $\chi^2$ /NDF: 9.9/22

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 520.391 $\pm$ 0.182  $\chi^2$ /NDF:292007.2/5

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

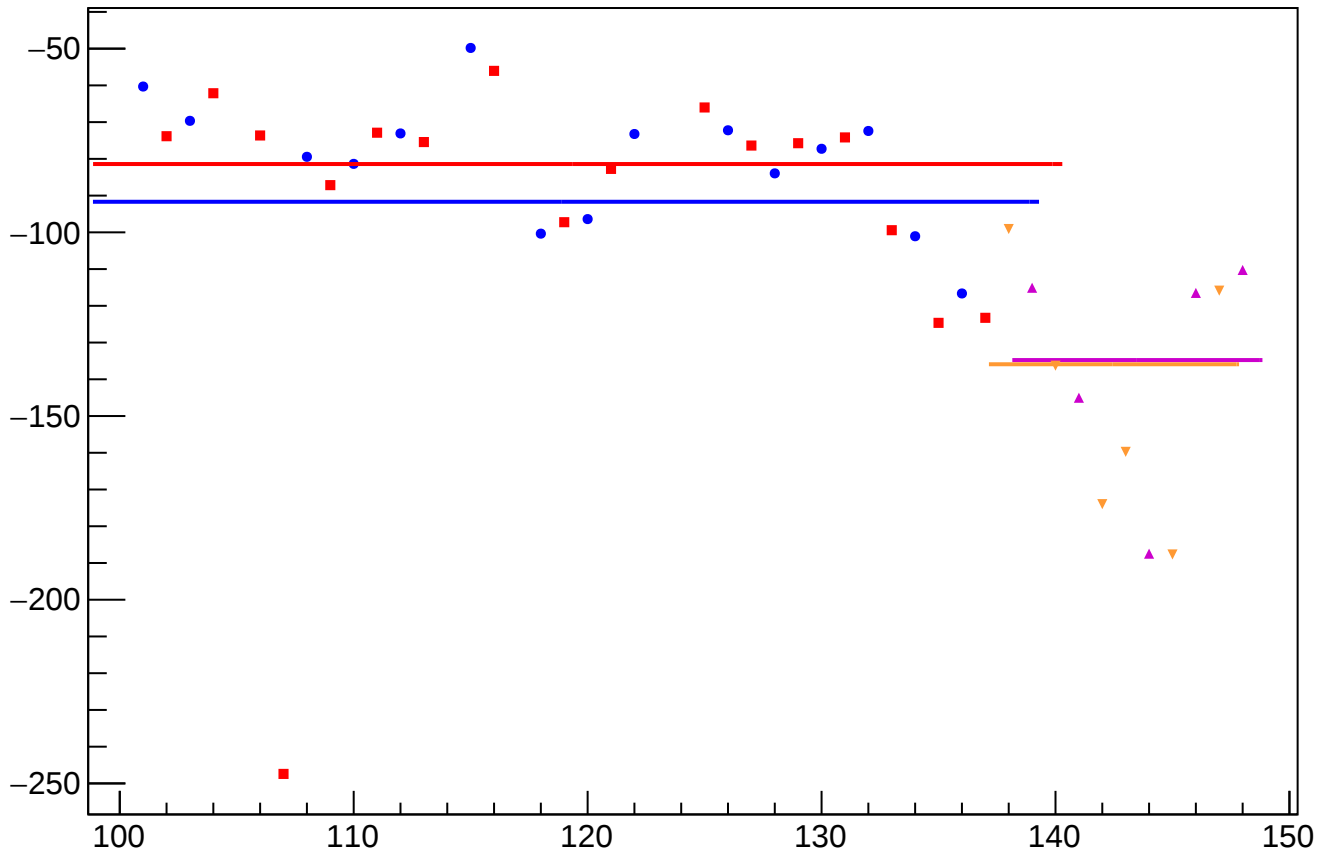
Left In: 512.590 $\pm$ 0.183  $\chi^2$ /NDF:307861.5/4

+ sign 655.612 $\pm$ 0.149  $\chi^2$ /NDF: 2372492.1/22

All: 657.471 $\pm$ 0.105  $\chi^2$ /NDF: 4961317.8/45

- sign 659.337 $\pm$ 0.149  $\chi^2$ /NDF: 2588513.3/22

# dit\_usl\_4aX\_slope vs Slug



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-135.907 \pm 0.197$   $\chi^2/\text{NDF}$ : 12415.1/5

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

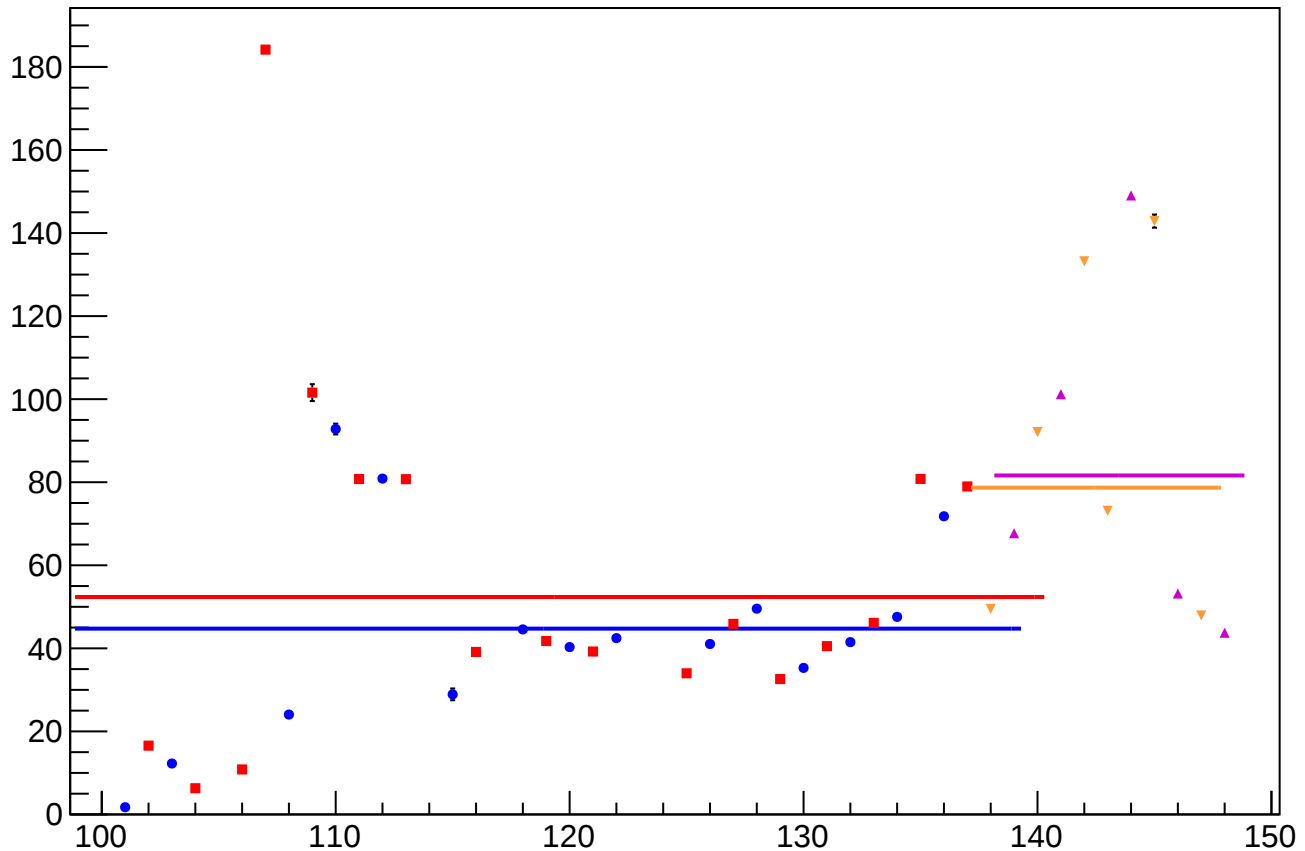
Left In:  $-134.764 \pm 0.128$   $\chi^2/\text{NDF}$ : 25163.6/4

+ sign  $-96.641 \pm 0.066$   $\chi^2/\text{NDF}$ : 121657.0/20

All:  $-98.602 \pm 0.050$   $\chi^2/\text{NDF}$ : 300283.3/42

- sign  $-101.331 \pm 0.078$   $\chi^2/\text{NDF}$ : 176520.6/21

# dit\_usl\_4eX\_slope vs Slug



Right In: 44.745 $\pm$ 0.061  $\chi^2$ /NDF: 84697.9/14

Left Out: 78.687 $\pm$ 0.201  $\chi^2$ /NDF:20438.7/5

Right Out: 52.367 $\pm$ 0.113  $\chi^2$ /NDF: 69285.2/16

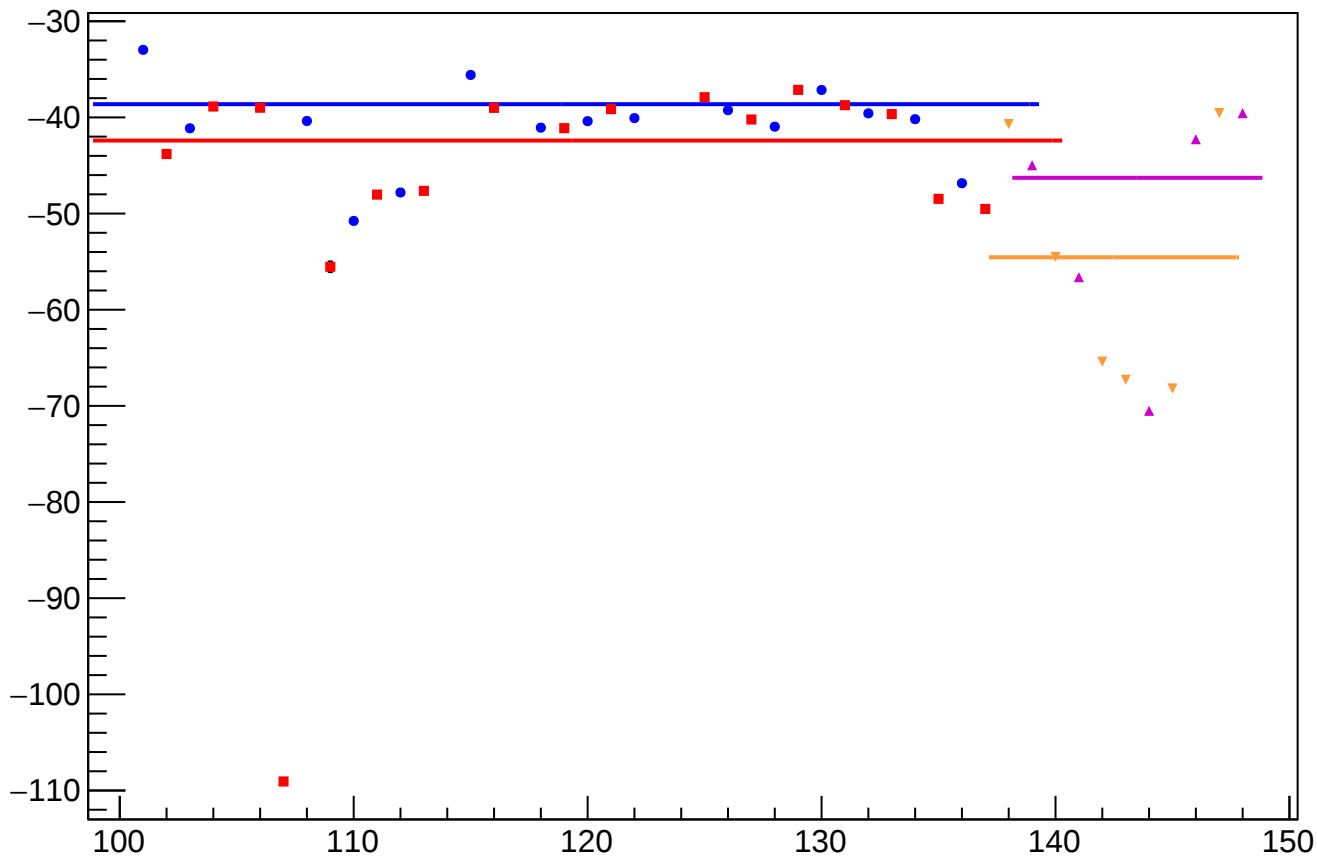
Left In: 81.626 $\pm$ 0.126  $\chi^2$ /NDF:53695.1/4

+ sign 47.567 $\pm$ 0.058  $\chi^2$ /NDF: 131251.1/20

All: 53.342 $\pm$ 0.048  $\chi^2$ /NDF: 314952.4/42

- sign 65.403 $\pm$ 0.084  $\chi^2$ /NDF: 153083.6/21

# dit\_usl\_11X12X\_slope vs Slug



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}$ : 240108.7/14

Left Out:  $-54.548 \pm 0.043$   $\chi^2/\text{NDF}$ : 71751.3/5

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}$ : 269138.5/16

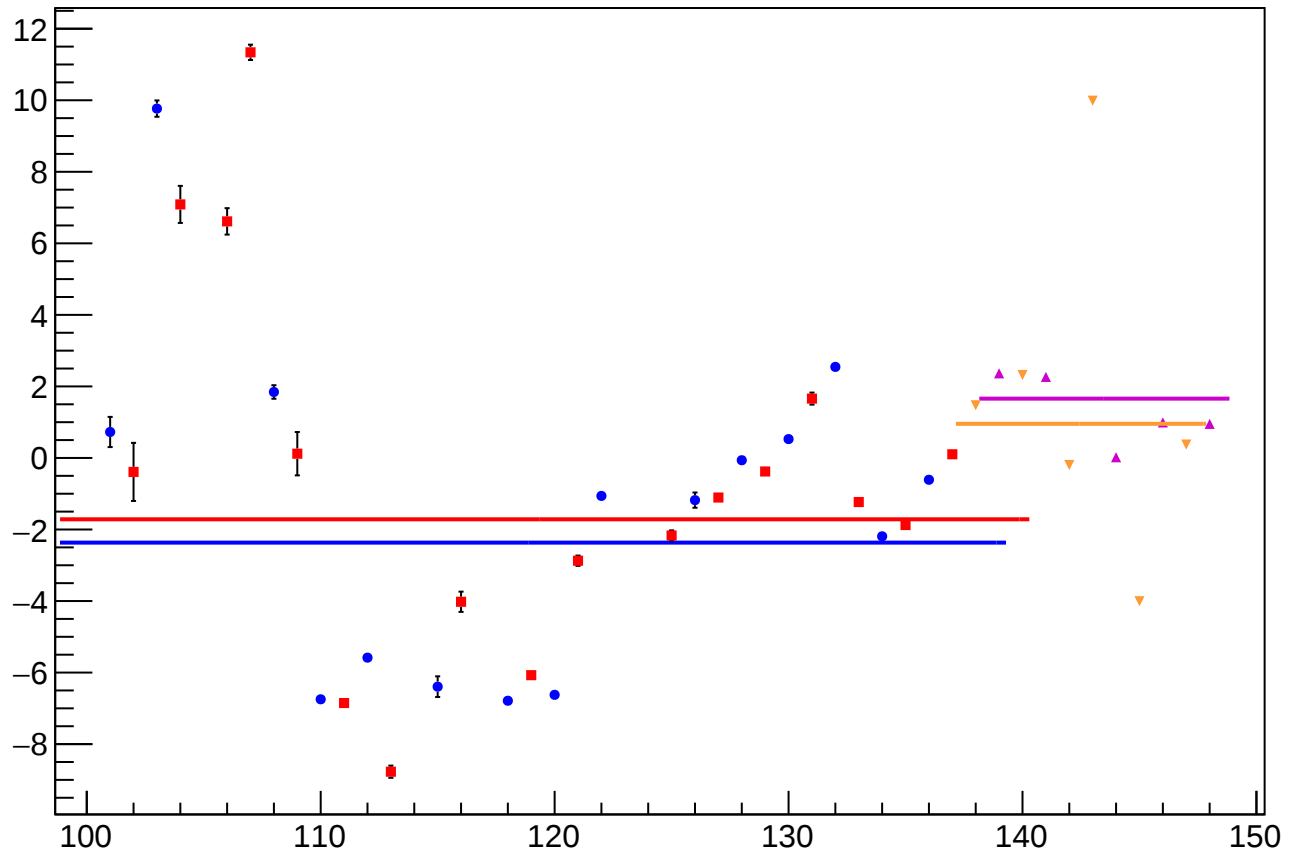
Left In:  $-46.281 \pm 0.028$   $\chi^2/\text{NDF}$ : 95223.5/4

+ sign  $-39.190 \pm 0.008$   $\chi^2/\text{NDF}$ : 443289.7/20

All:  $-40.050 \pm 0.007$   $\chi^2/\text{NDF}$ : 880069.5/42

- sign  $-43.815 \pm 0.017$   $\chi^2/\text{NDF}$ : 376407.6/21

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}: 28797.3/14$

Left Out:  $0.955 \pm 0.020$   $\chi^2/\text{NDF}: 10090.6/5$

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}: 12719.3/16$

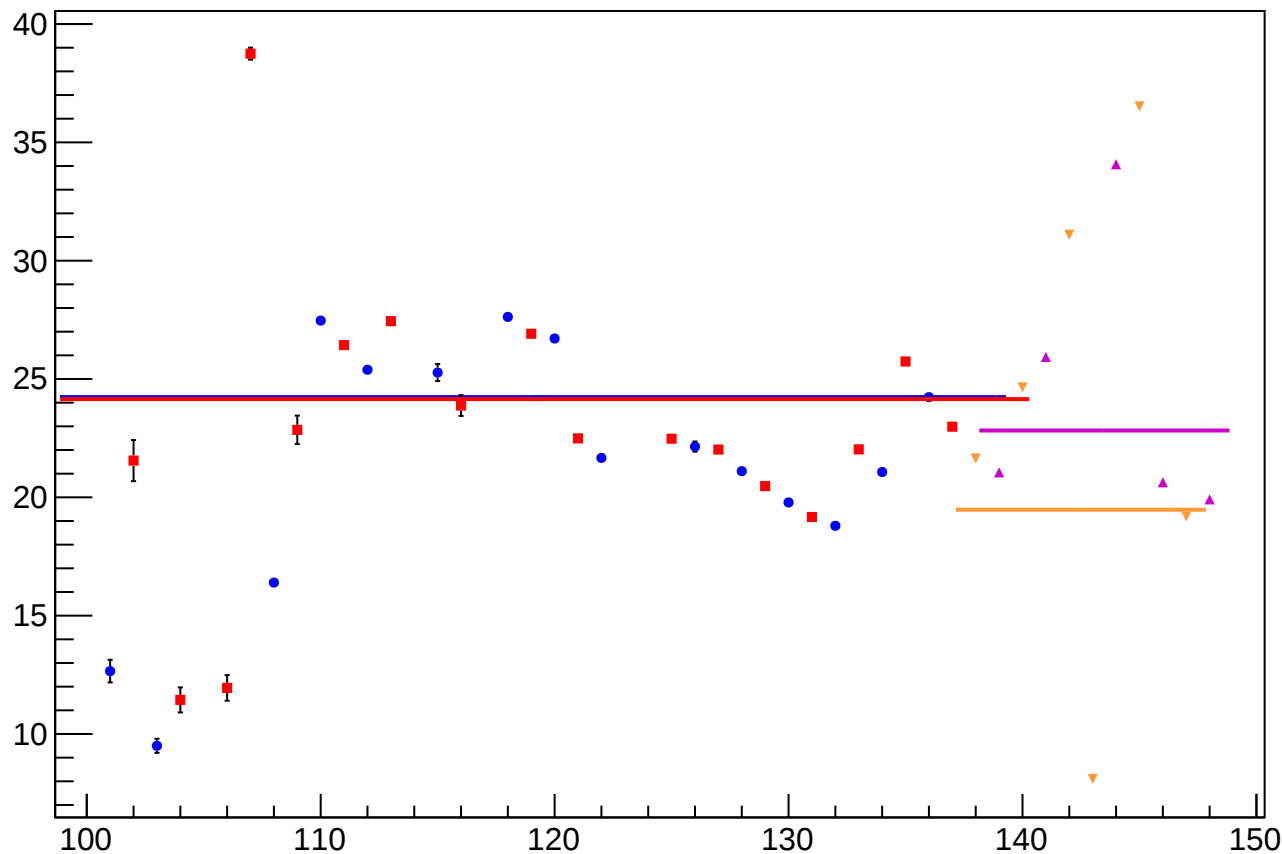
Left In:  $1.659 \pm 0.016$   $\chi^2/\text{NDF}: 1999.3/4$

+ sign  $-1.248 \pm 0.011$   $\chi^2/\text{NDF}: 57650.3/20$

All:  $-0.429 \pm 0.009$   $\chi^2/\text{NDF}: 96455.2/42$

- sign  $0.769 \pm 0.014$   $\chi^2/\text{NDF}: 26221.5/21$

# dit\_usl\_4eY\_slope vs Slug



Right In:  $24.235 \pm 0.022$   $\chi^2/\text{NDF}$ : 21896.9/14

Left Out:  $19.476 \pm 0.031$   $\chi^2/\text{NDF}$ : 37991.5/5

Right Out:  $24.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 13222.6/16

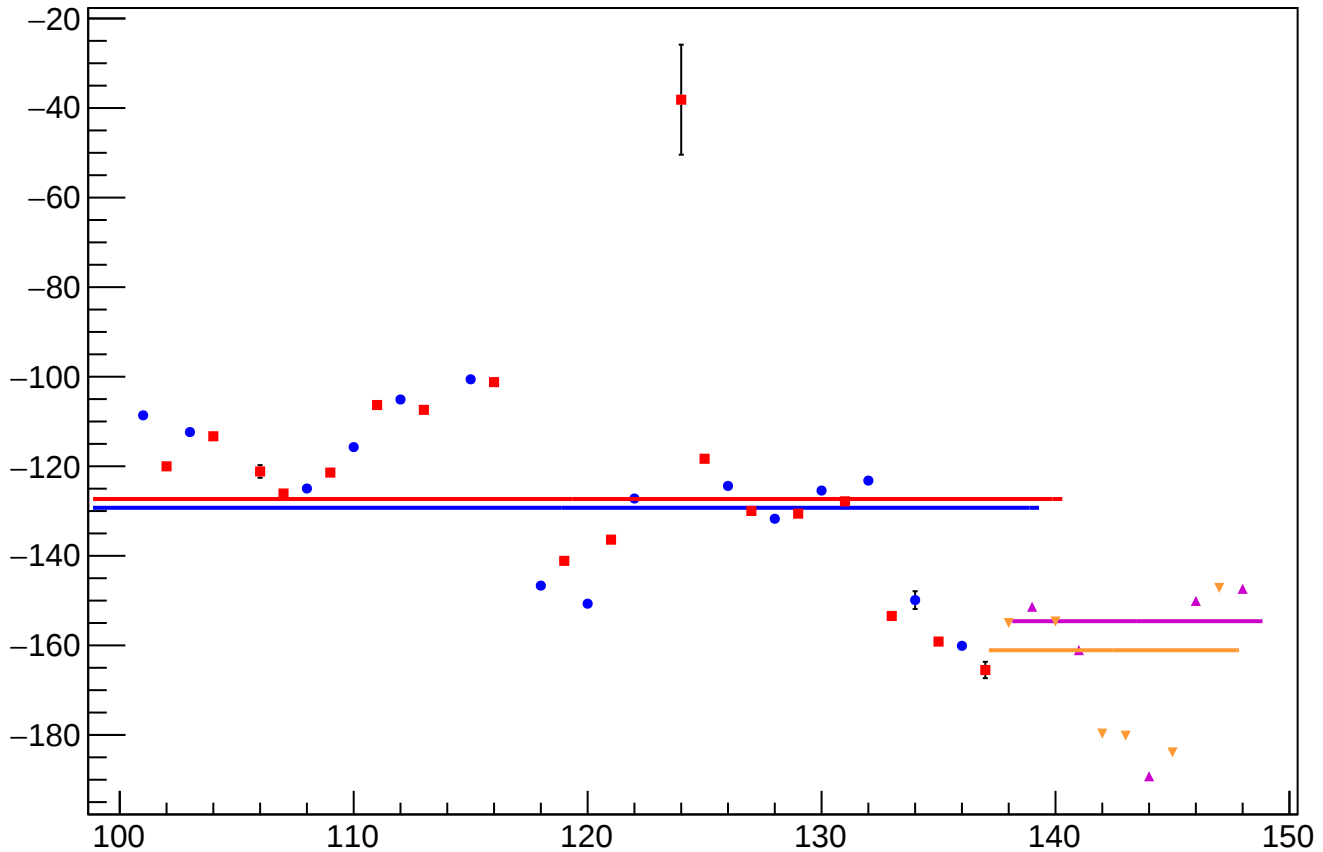
Left In:  $22.824 \pm 0.025$   $\chi^2/\text{NDF}$ : 18402.5/4

+ sign  $22.615 \pm 0.018$   $\chi^2/\text{NDF}$ : 75784.1/20

All:  $23.071 \pm 0.013$   $\chi^2/\text{NDF}$ : 110115.6/42

- sign  $23.508 \pm 0.017$   $\chi^2/\text{NDF}$ : 33058.9/21

# dit\_usr\_4aX\_slope vs Slug



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}$ : 35109.7/14

Left Out:  $-161.082 \pm 0.117$   $\chi^2/\text{NDF}$ : 13681.4/5

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}$ : 29597.3/17

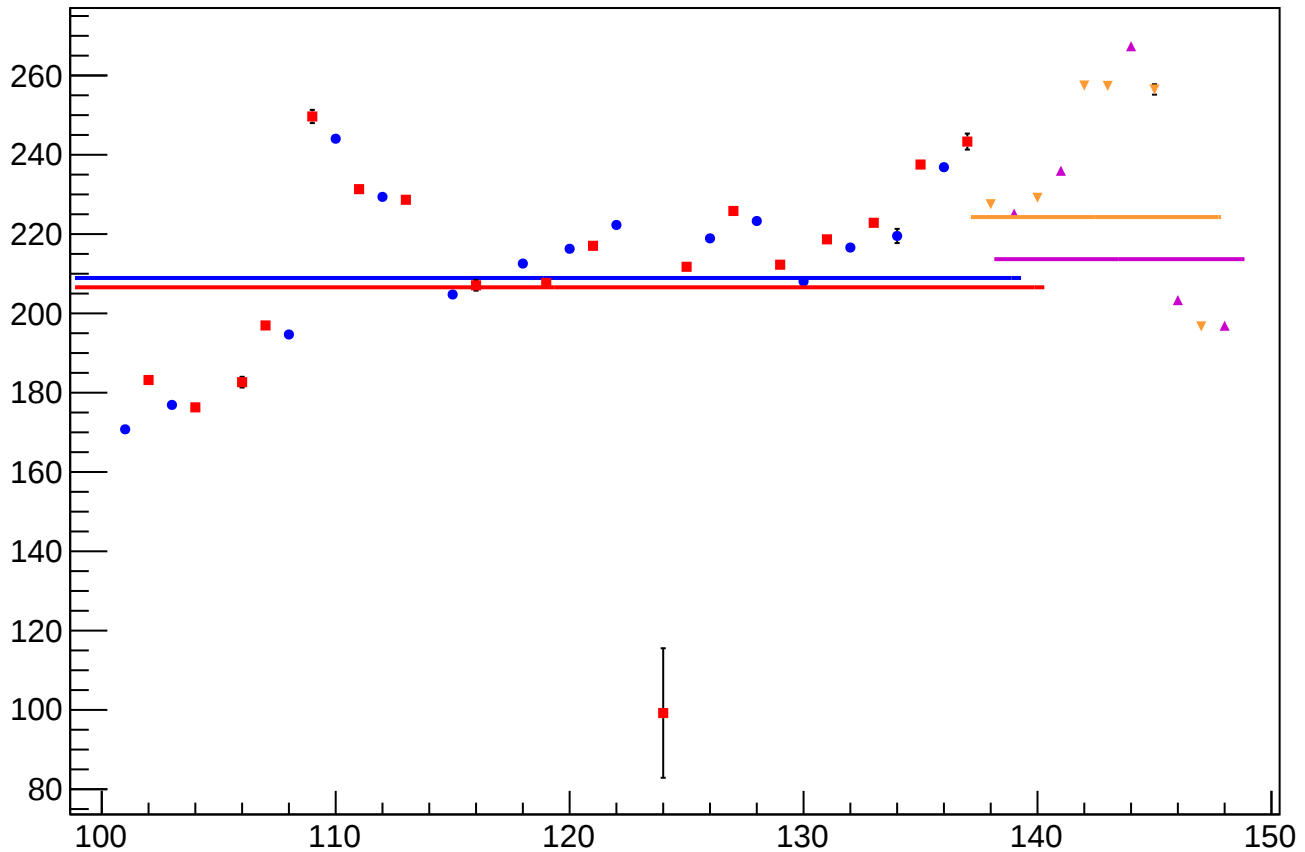
Left In:  $-154.595 \pm 0.097$   $\chi^2/\text{NDF}$ : 13315.2/4

+ sign  $-140.718 \pm 0.070$   $\chi^2/\text{NDF}$ : 96048.7/20

All:  $-139.782 \pm 0.047$   $\chi^2/\text{NDF}$ : 184236.2/43

- sign  $-139.012 \pm 0.064$   $\chi^2/\text{NDF}$ : 87863.9/22

# dit\_usr\_4eX\_slope vs Slug



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14

Left Out: 224.291 $\pm$ 0.109  $\chi^2$ /NDF: 51026.5/5

Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17

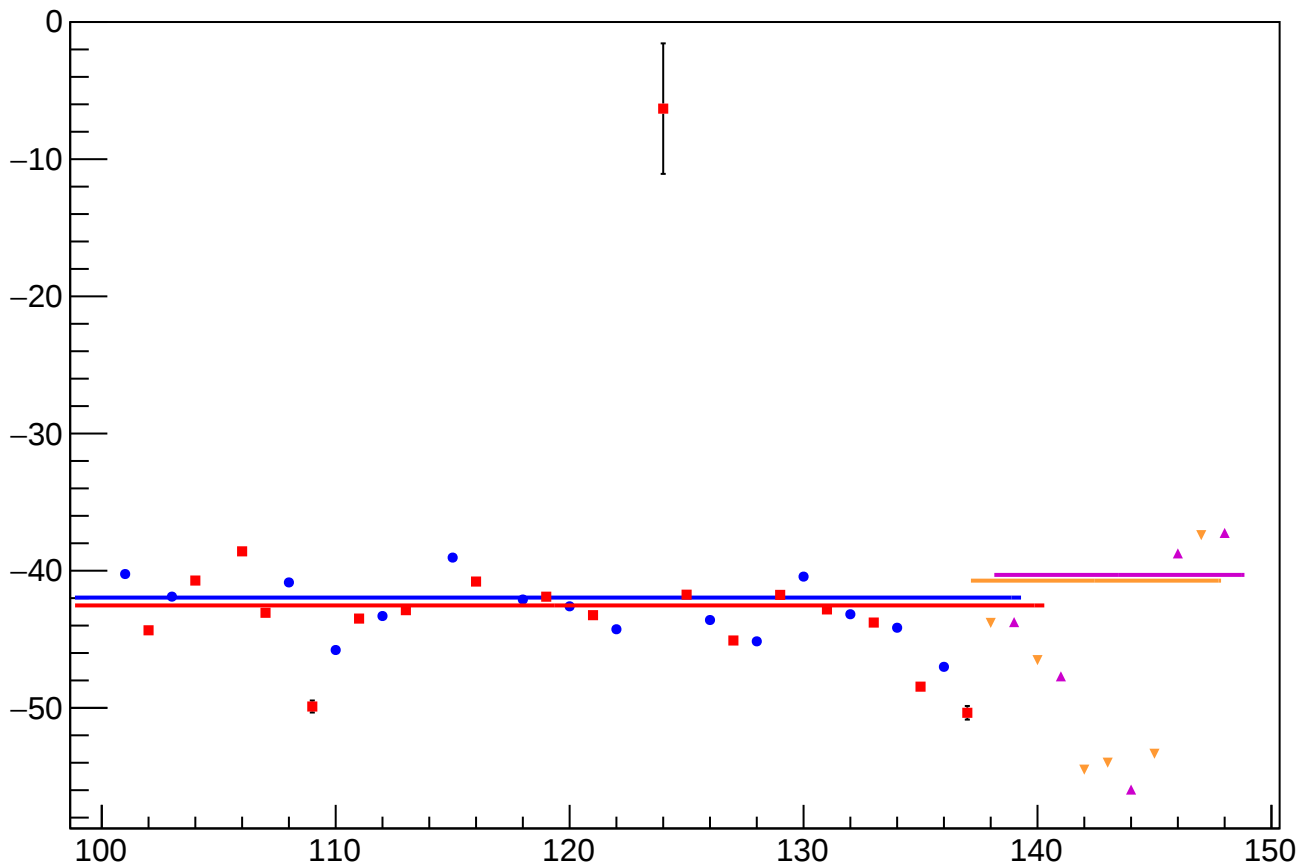
Left In: 213.677 $\pm$ 0.091  $\chi^2$ /NDF: 48827.4/4

+ sign 215.082 $\pm$ 0.069  $\chi^2$ /NDF: 107577.0/20

All: 212.136 $\pm$ 0.046  $\chi^2$ /NDF: 211178.6/43

- sign 209.805 $\pm$ 0.061  $\chi^2$ /NDF: 100344.0/22

# dit\_usr\_11X12X\_slope vs Slug



Right In: -41.959+/-0.016  $\chi^2/\text{NDF}$ : 24229.7/14

Left Out: -40.724+/-0.014  $\chi^2/\text{NDF}$ : 151632.6/5

Right Out: -42.532+/-0.021  $\chi^2/\text{NDF}$ : 6137.0/17

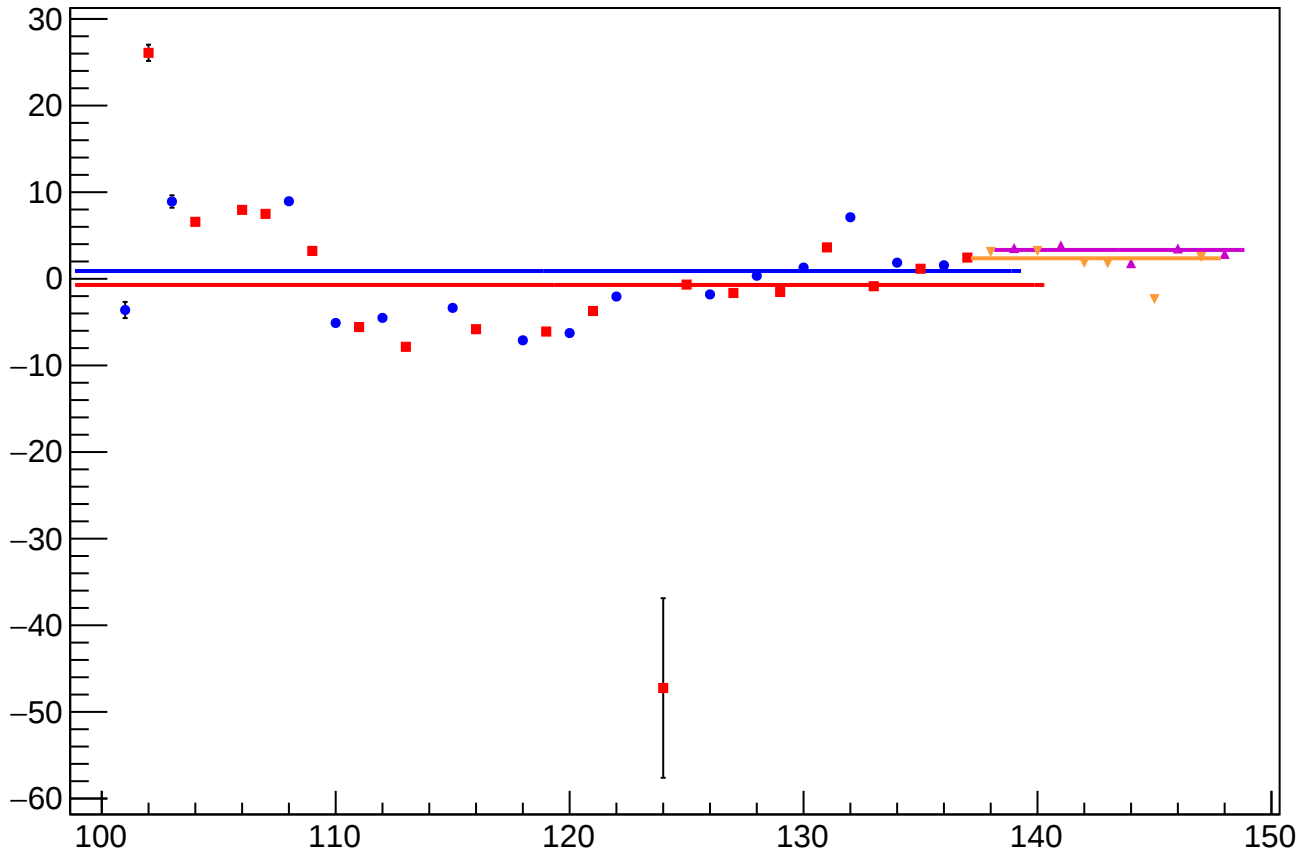
Left In: -40.306+/-0.014  $\chi^2/\text{NDF}$ : 91961.3/4

+ sign -41.275+/-0.010  $\chi^2/\text{NDF}$ : 179334.7/20

All: -41.146+/-0.008  $\chi^2/\text{NDF}$ : 285813.2/43

- sign -40.991+/-0.011  $\chi^2/\text{NDF}$ : 106142.1/22

# dit\_usr\_4aY\_slope vs Slug



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 21140.4/14

Left Out:  $2.368 \pm 0.019$   $\chi^2/\text{NDF}$ : 5107.4/5

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}$ : 30723.8/17

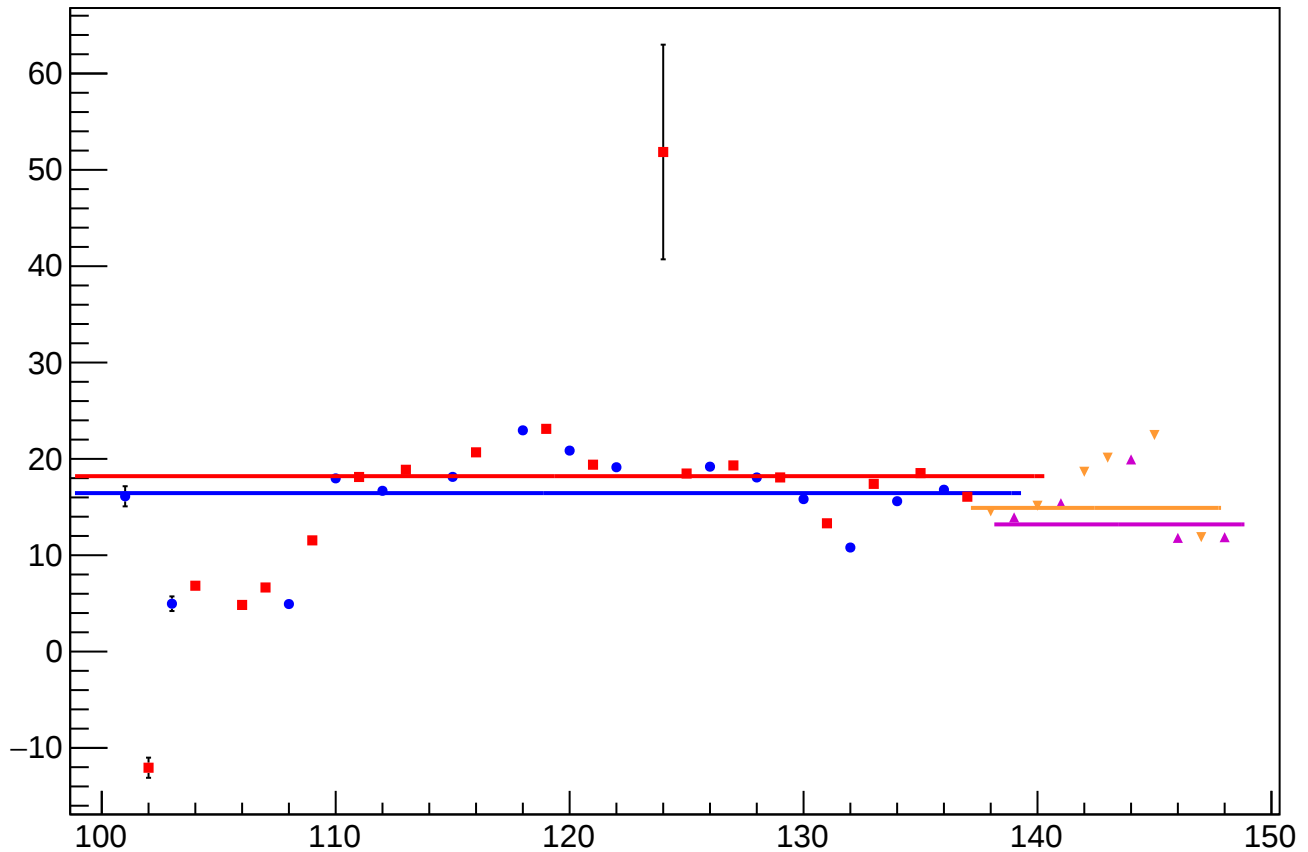
Left In:  $3.333 \pm 0.016$   $\chi^2/\text{NDF}$ : 1260.1/4

+ sign  $1.672 \pm 0.014$   $\chi^2/\text{NDF}$ : 29049.3/20

All:  $1.909 \pm 0.010$   $\chi^2/\text{NDF}$ : 81034.7/43

- sign  $2.127 \pm 0.013$   $\chi^2/\text{NDF}$ : 51421.3/22

# dit\_usr\_4eY\_slope vs Slug



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 14.913 $\pm$ 0.020  $\chi^2$ /NDF: 29275.3/5

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

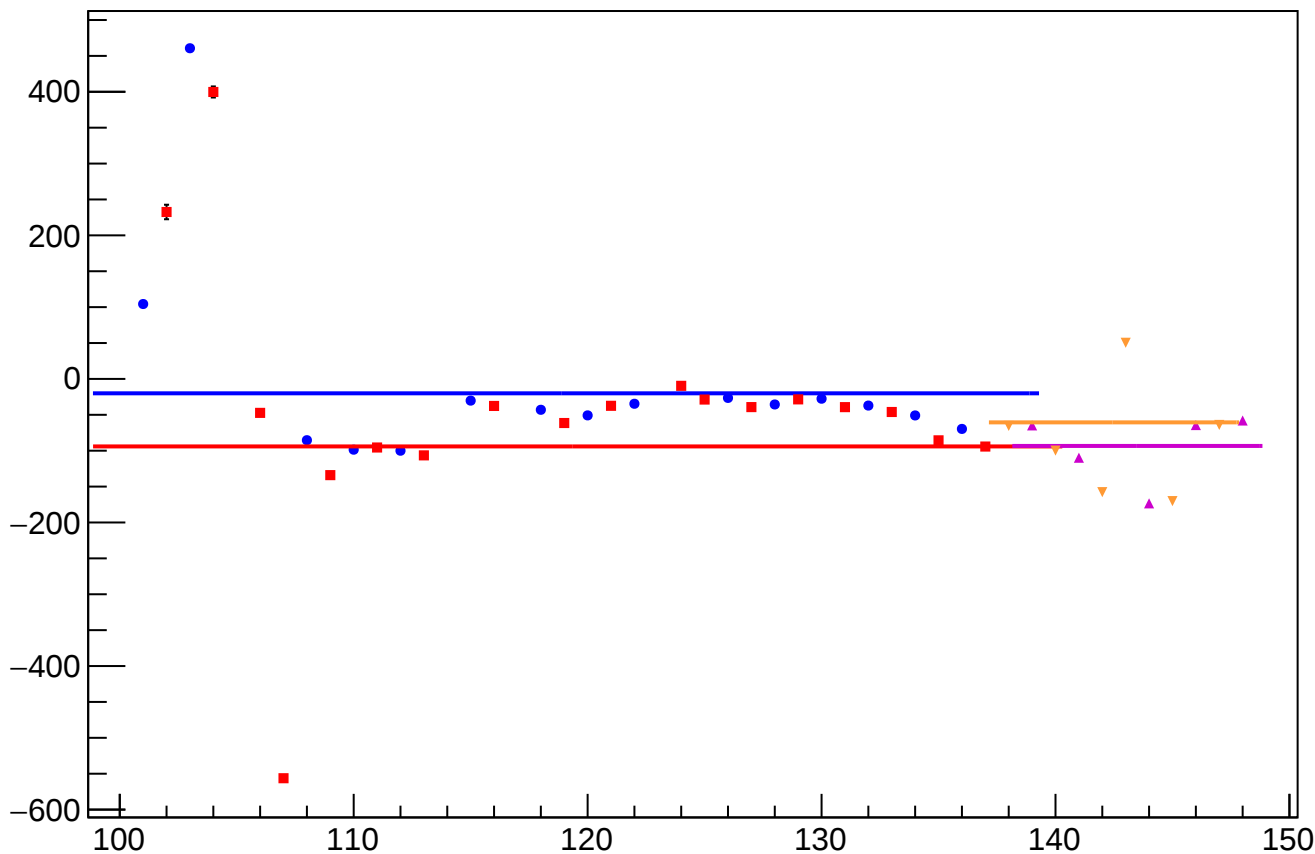
Left In: 13.200 $\pm$ 0.019  $\chi^2$ /NDF: 11557.9/4

+ sign 15.530 $\pm$ 0.015  $\chi^2$ /NDF: 45819.2/20

All: 15.499 $\pm$ 0.010  $\chi^2$ /NDF: 117657.1/43

- sign 15.474 $\pm$ 0.014  $\chi^2$ /NDF: 71830.4/22

# dit\_atl1\_4aX\_slope vs Slug



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-60.543 \pm 0.232$   $\chi^2/\text{NDF}: 42936.2/5$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

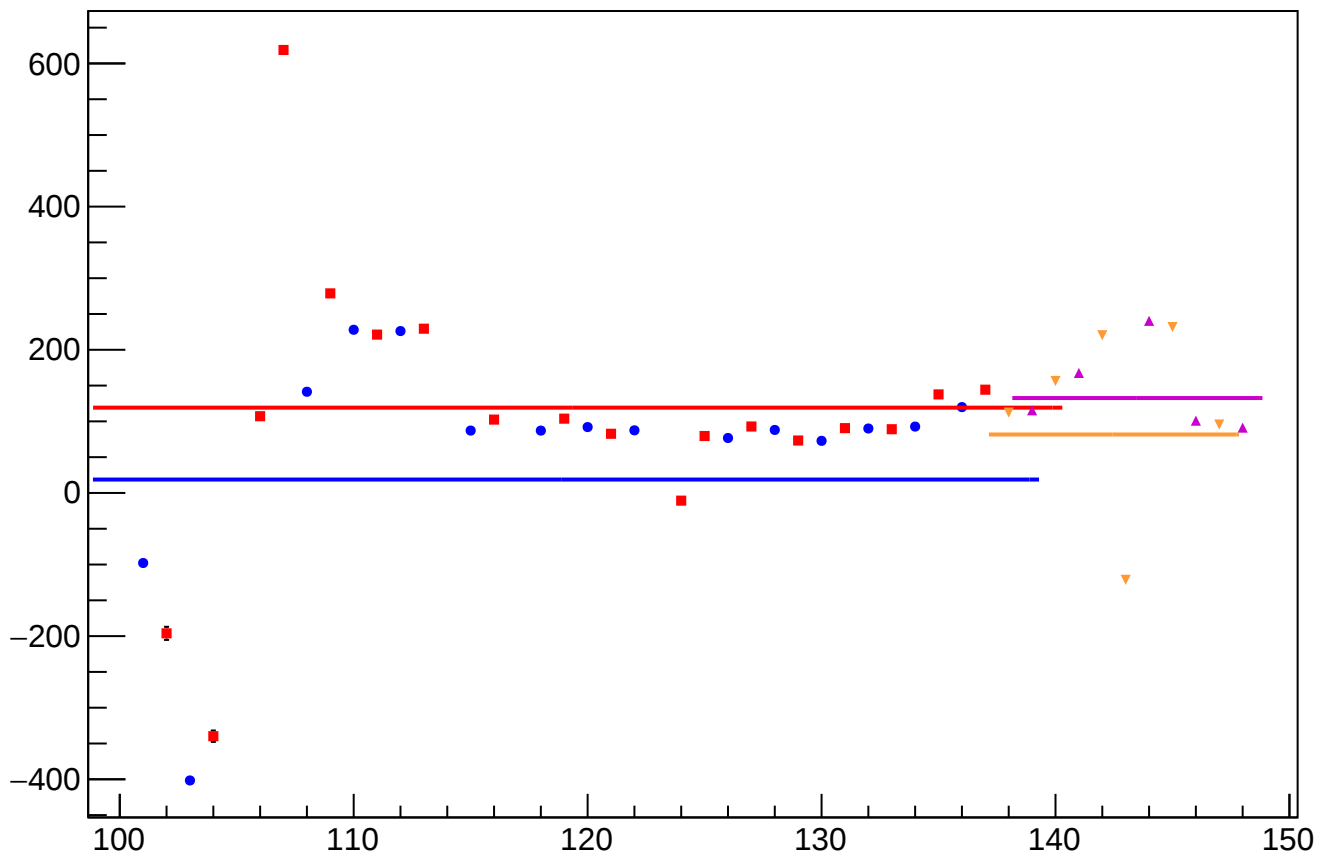
Left In:  $-93.372 \pm 0.262$   $\chi^2/\text{NDF}: 23505.6/4$

+ sign  $-32.331 \pm 0.128$   $\chi^2/\text{NDF}: 505581.6/20$

All:  $-93.472 \pm 0.012$   $\chi^2/\text{NDF}: 847454.8/43$

- sign  $-94.049 \pm 0.012$   $\chi^2/\text{NDF}: 110999.9/22$

# dit\_atl1\_4eX\_slope vs Slug



Right In: 18.731+/-0.152  $\chi^2/\text{NDF}$ : 1101803.8/14

Left Out: 81.669+/-0.228  $\chi^2/\text{NDF}$ : 161449.5/5

Right Out: 119.167+/-0.199  $\chi^2/\text{NDF}$ : 87450.0/17

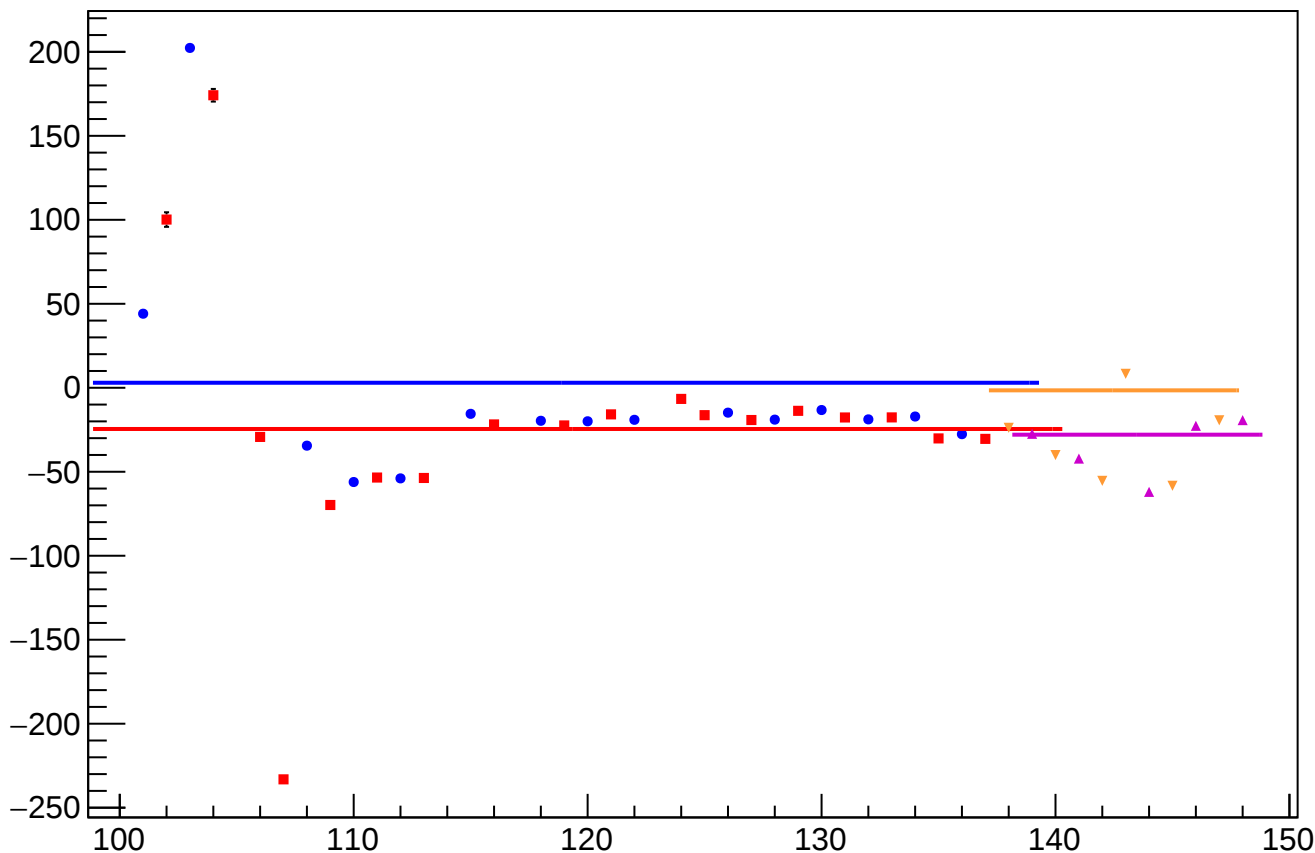
Left In: 132.589+/-0.244  $\chi^2/\text{NDF}$ : 37349.0/4

+ sign 38.079+/-0.127  $\chi^2/\text{NDF}$ : 1315905.8/20

All: 72.826+/-0.098  $\chi^2/\text{NDF}$ : 1630062.4/43

- sign 124.532+/-0.154  $\chi^2/\text{NDF}$ : 126612.5/22

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-1.529 \pm 0.033$   $\chi^2/\text{NDF}: 279984.5/5$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

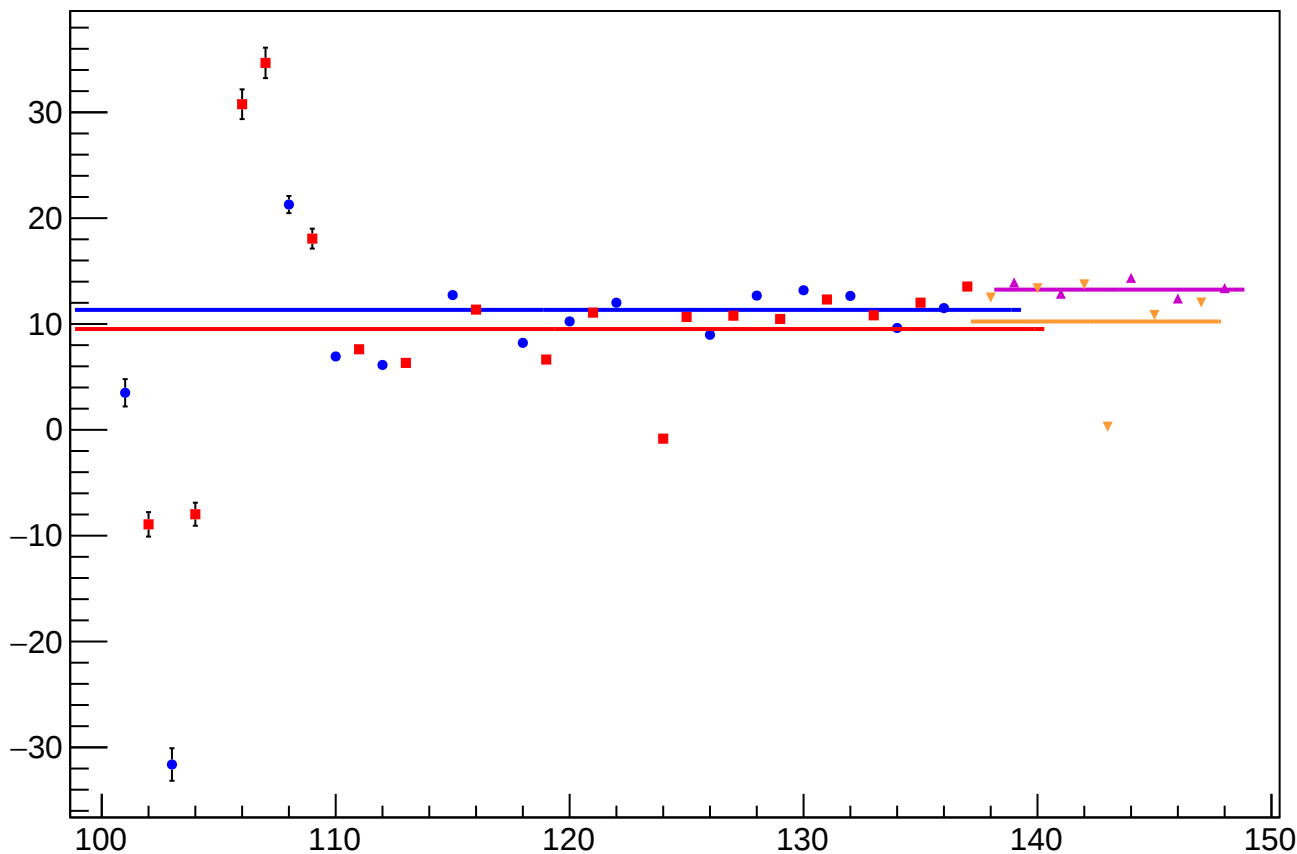
Left In:  $-27.928 \pm 0.040$   $\chi^2/\text{NDF}: 83861.3/4$

+ sign  $1.177 \pm 0.021$   $\chi^2/\text{NDF}: 3788071.1/20$

All:  $-7.964 \pm 0.017$   $\chi^2/\text{NDF}: 4633595.4/43$

- sign  $-26.373 \pm 0.030$   $\chi^2/\text{NDF}: 263634.2/22$

# dit\_atl1\_4aY\_slope vs Slug



Right In:  $11.334 \pm 0.037$   $\chi^2/\text{NDF}$ : 2406.0/14

Left Out:  $10.236 \pm 0.031$   $\chi^2/\text{NDF}$ : 24533.8/5

Right Out:  $9.524 \pm 0.048$   $\chi^2/\text{NDF}$ : 4066.9/17

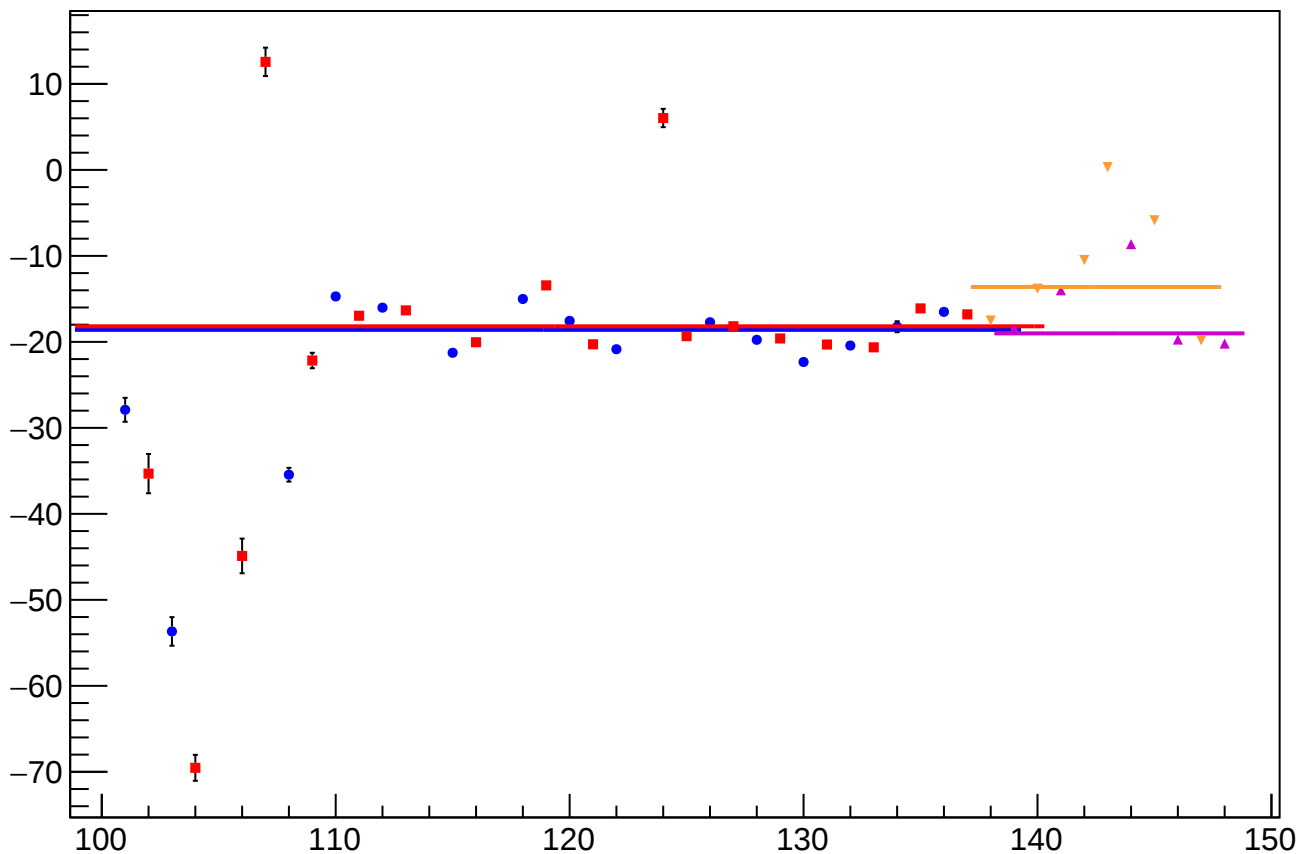
Left In:  $13.248 \pm 0.032$   $\chi^2/\text{NDF}$ : 376.8/4

+ sign  $10.688 \pm 0.024$   $\chi^2/\text{NDF}$ : 27448.3/20

All:  $11.334 \pm 0.018$   $\chi^2/\text{NDF}$ : 37697.3/43

- sign  $12.120 \pm 0.026$   $\chi^2/\text{NDF}$ : 8636.8/22

# dit\_atl1\_4eY\_slope vs Slug



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14

Left Out:  $-13.615 \pm 0.040$   $\chi^2/\text{NDF}$ : 30559.8/5

Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17

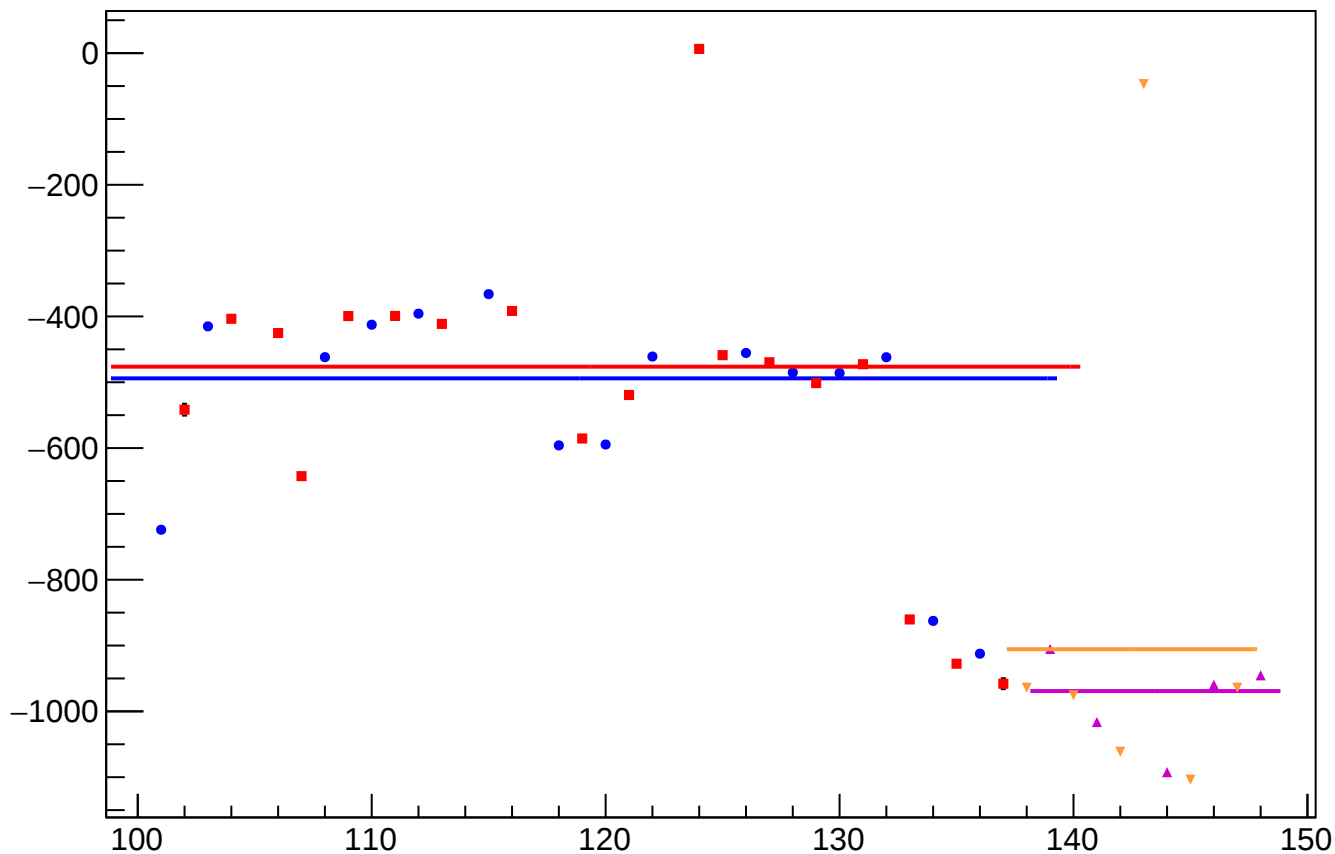
Left In:  $-19.011 \pm 0.032$   $\chi^2/\text{NDF}$ : 5863.4/4

+ sign  $-16.284 \pm 0.027$   $\chi^2/\text{NDF}$ : 45088.7/20

All:  $-17.535 \pm 0.019$   $\chi^2/\text{NDF}$ : 60223.3/43

- sign  $-18.767 \pm 0.027$   $\chi^2/\text{NDF}$ : 10938.6/22

# dit\_atl2\_4aX\_slope vs Slug



Right In:  $-494.081 \pm 0.232$   $\chi^2/\text{NDF}$ : 325996.5/14

Left Out:  $-905.580 \pm 0.512$   $\chi^2/\text{NDF}$ : 291501.0/5

Right Out:  $-476.348 \pm 0.185$   $\chi^2/\text{NDF}$ : 594116.3/17

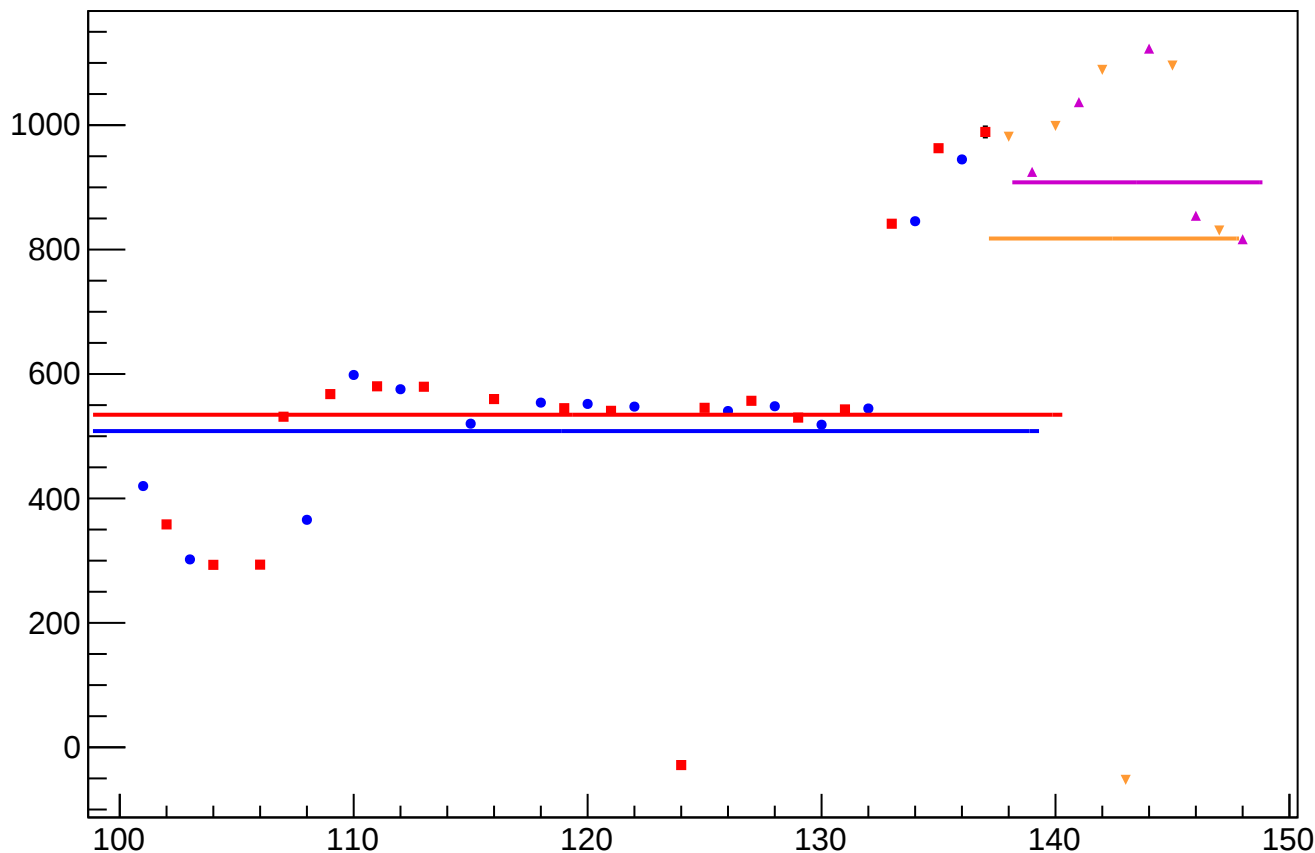
Left In:  $-969.138 \pm 0.426$   $\chi^2/\text{NDF}$ : 15365.5/4

+ sign  $-564.242 \pm 0.211$   $\chi^2/\text{NDF}$ : 1153443.1/20

All:  $-558.310 \pm 0.132$   $\chi^2/\text{NDF}$ : 2887674.7/43

- sign  $-554.482 \pm 0.170$   $\chi^2/\text{NDF}$ : 1732936.0/22

# dit\_atl2\_4eX\_slope vs Slug



Right In: 508.267+/-0.222  $\chi^2/\text{NDF}$ : 439489.9/14

Left Out: 817.769+/-0.506  $\chi^2/\text{NDF}$ : 401517.8/5

Right Out: 534.536+/-0.217  $\chi^2/\text{NDF}$ : 368263.1/17

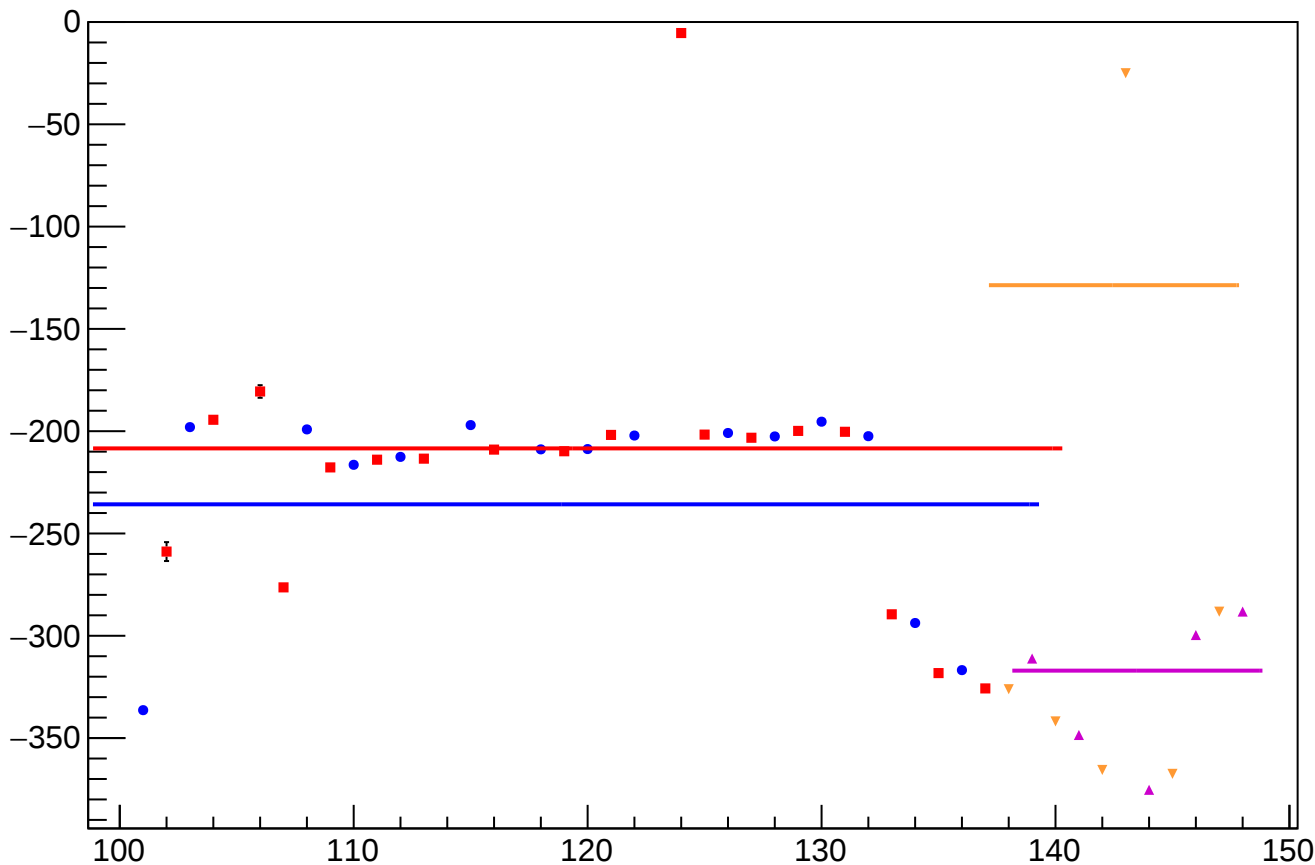
Left In: 908.071+/-0.415  $\chi^2/\text{NDF}$ : 61202.0/4

+ sign 558.124+/-0.203  $\chi^2/\text{NDF}$ : 1155039.7/20

All: 587.958+/-0.140  $\chi^2/\text{NDF}$ : 2260861.7/43

- sign 614.761+/-0.192  $\chi^2/\text{NDF}$ : 1064831.8/22

# dit\_atl2\_11X12X\_slope vs Slug



Right In: -235.748+/-0.055  $\chi^2/\text{NDF}$ : 876219.5/14

Left Out: -128.638+/-0.084  $\chi^2/\text{NDF}$ : 2886080.1/5

Right Out: -208.413+/-0.047  $\chi^2/\text{NDF}$ : 375009.3/17

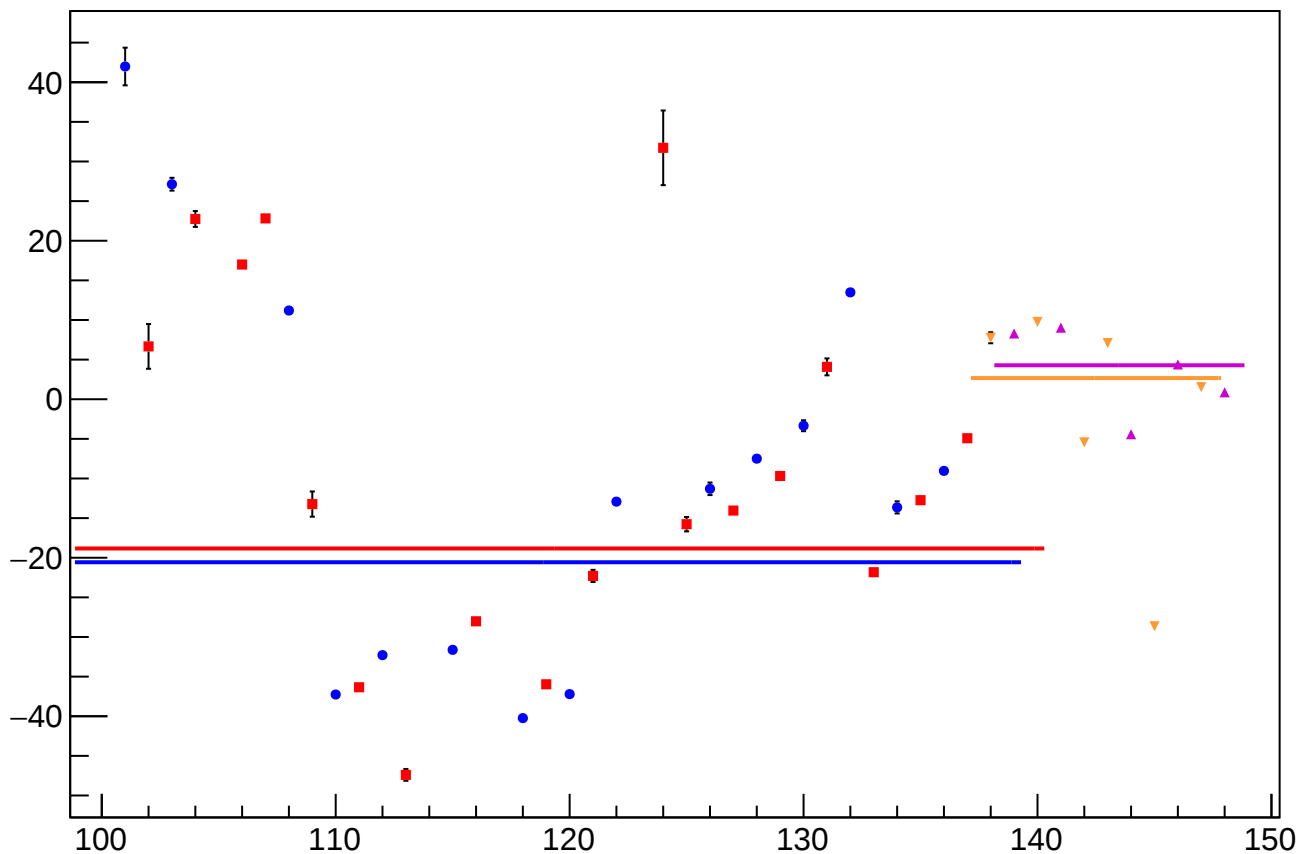
Left In: -317.039+/-0.077  $\chi^2/\text{NDF}$ : 142150.5/4

+ sign -203.339+/-0.046  $\chi^2/\text{NDF}$ : 4900604.1/20

All: -222.827+/-0.030  $\chi^2/\text{NDF}$ : 7176165.8/43

- sign -237.490+/-0.040  $\chi^2/\text{NDF}$ : 1962646.3/22

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $2.673 \pm 0.058$   $\chi^2/\text{NDF}$ : 7195.0/5

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

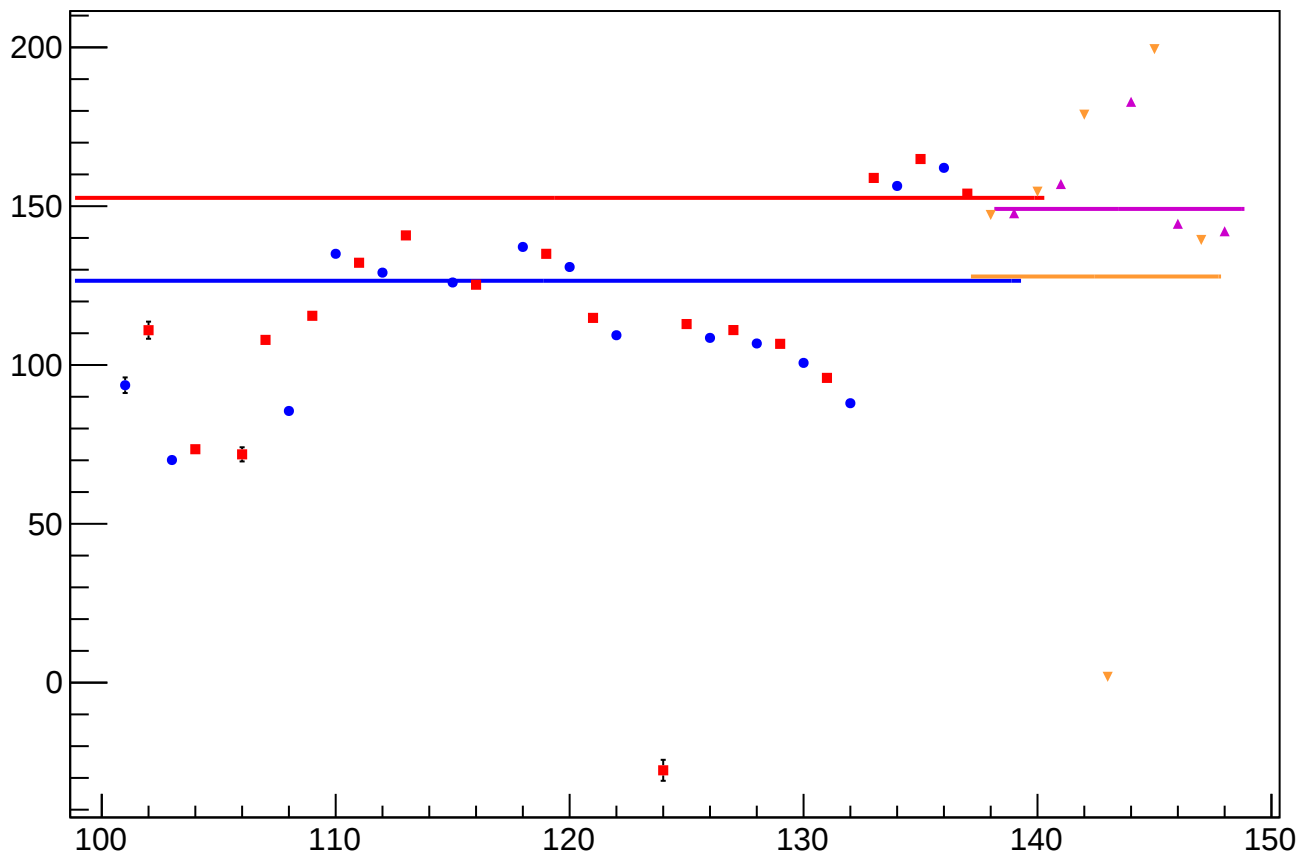
Left In:  $4.285 \pm 0.057$   $\chi^2/\text{NDF}$ : 4564.4/4

+ sign  $-6.525 \pm 0.045$   $\chi^2/\text{NDF}$ : 134741.8/20

All:  $-3.934 \pm 0.033$   $\chi^2/\text{NDF}$ : 203584.7/43

- sign  $-0.699 \pm 0.050$   $\chi^2/\text{NDF}$ : 61349.4/22

# dit\_atl2\_4eY\_slope vs Slug



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 127.862 $\pm$ 0.079  $\chi^2$ /NDF: 370035.4/5

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

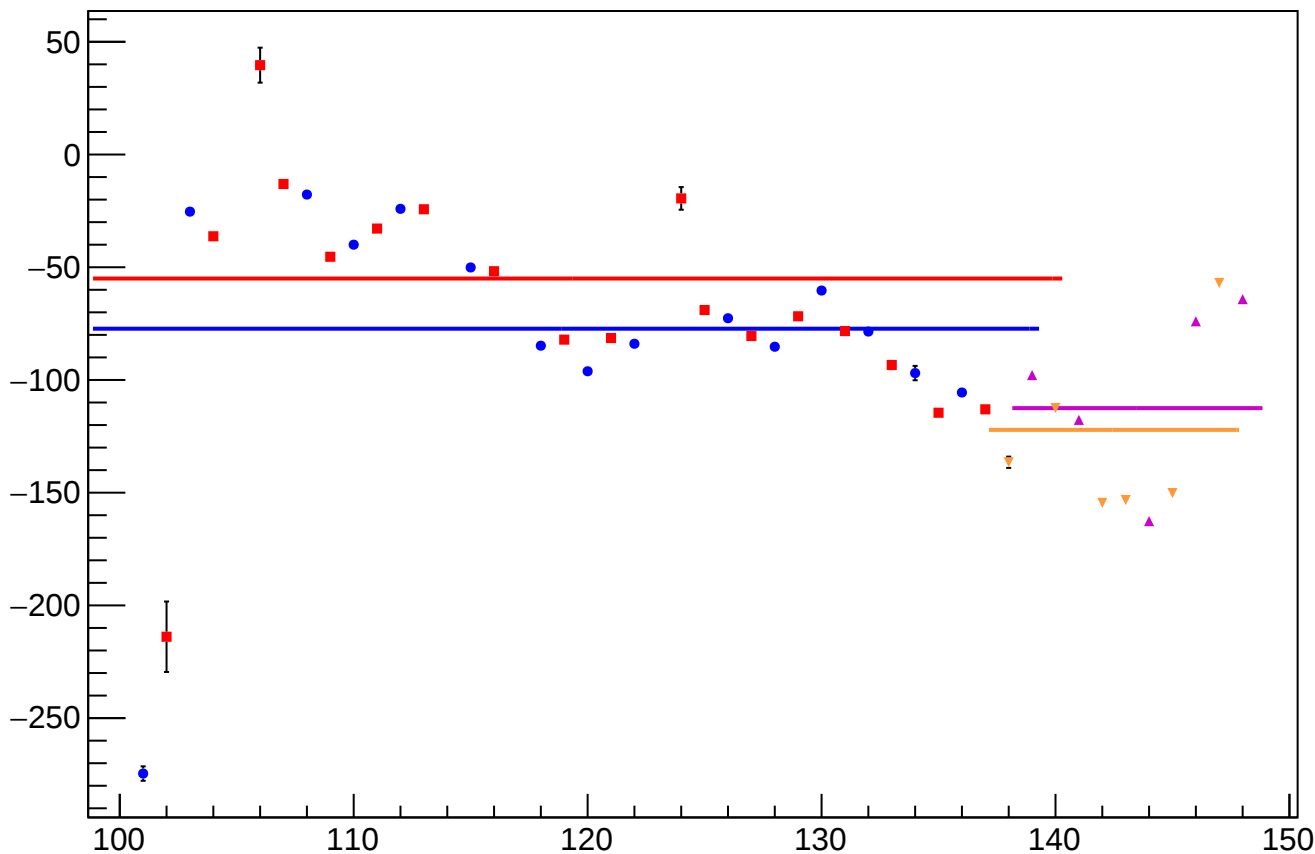
Left In: 149.139 $\pm$ 0.077  $\chi^2$ /NDF: 14197.1/4

+ sign 127.232 $\pm$ 0.057  $\chi^2$ /NDF: 485138.9/20

All: 147.306 $\pm$ 0.025  $\chi^2$ /NDF: 726525.9/43

- sign 152.155 $\pm$ 0.028  $\chi^2$ /NDF: 89975.8/22

# dit\_atr1\_4aX\_slope vs Slug



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}: 30356.0/14$

Left Out:  $-122.141 \pm 0.255$   $\chi^2/\text{NDF}: 17164.3/5$

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}: 23629.0/17$

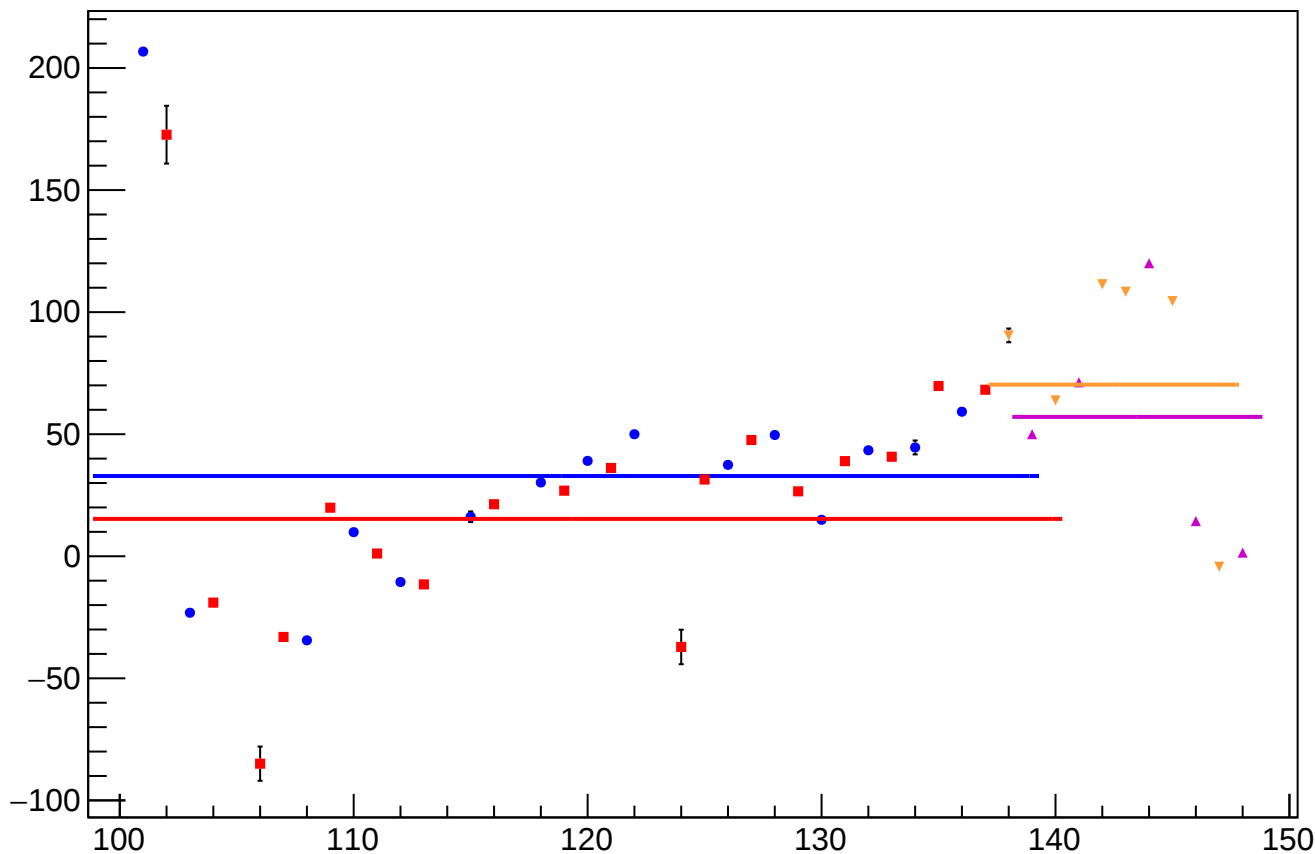
Left In:  $-112.487 \pm 0.217$   $\chi^2/\text{NDF}: 21709.5/4$

+ sign  $-88.369 \pm 0.127$   $\chi^2/\text{NDF}: 70764.4/20$

All:  $-84.657 \pm 0.095$   $\chi^2/\text{NDF}: 157641.6/43$

- sign  $-79.945 \pm 0.143$   $\chi^2/\text{NDF}: 84939.9/22$

# dit\_atr1\_4eX\_slope vs Slug



Right In: 32.869 $\pm$ 0.146  $\chi^2$ /NDF: 31393.7/14

Left Out: 70.309 $\pm$ 0.247  $\chi^2$ /NDF: 28691.2/5

Right Out: 15.309 $\pm$ 0.210  $\chi^2$ /NDF: 16746.0/17

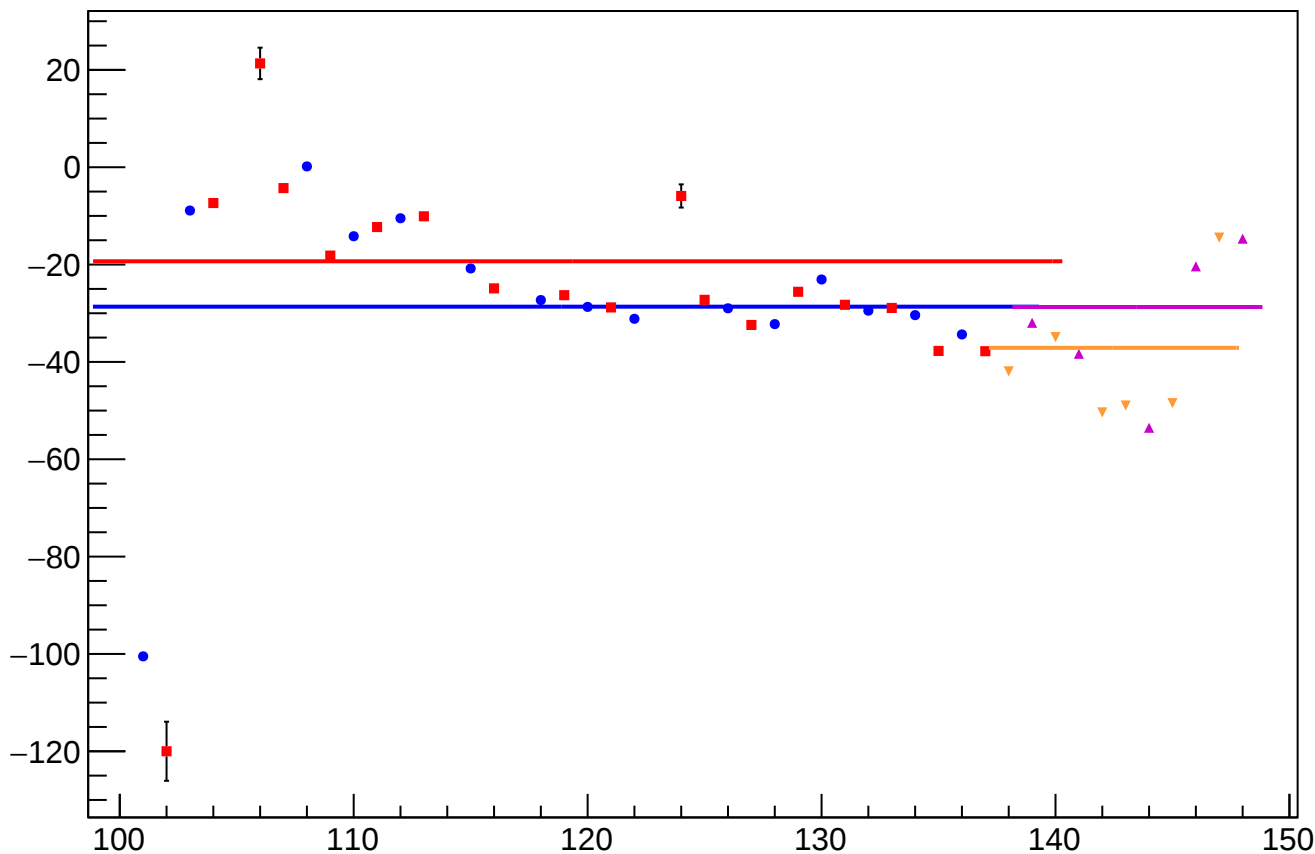
Left In: 57.090 $\pm$ 0.203  $\chi^2$ /NDF: 35041.3/4

+ sign 42.558 $\pm$ 0.126  $\chi^2$ /NDF: 77100.9/20

All: 40.129 $\pm$ 0.095  $\chi^2$ /NDF: 150244.5/43

- sign 36.857 $\pm$ 0.146  $\chi^2$ /NDF: 72267.3/22

# dit\_atr1\_11X12X\_slope vs Slug



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}: 113441.9/14$

Left Out:  $-37.103 \pm 0.053$   $\chi^2/\text{NDF}: 74043.0/5$

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}: 56579.1/17$

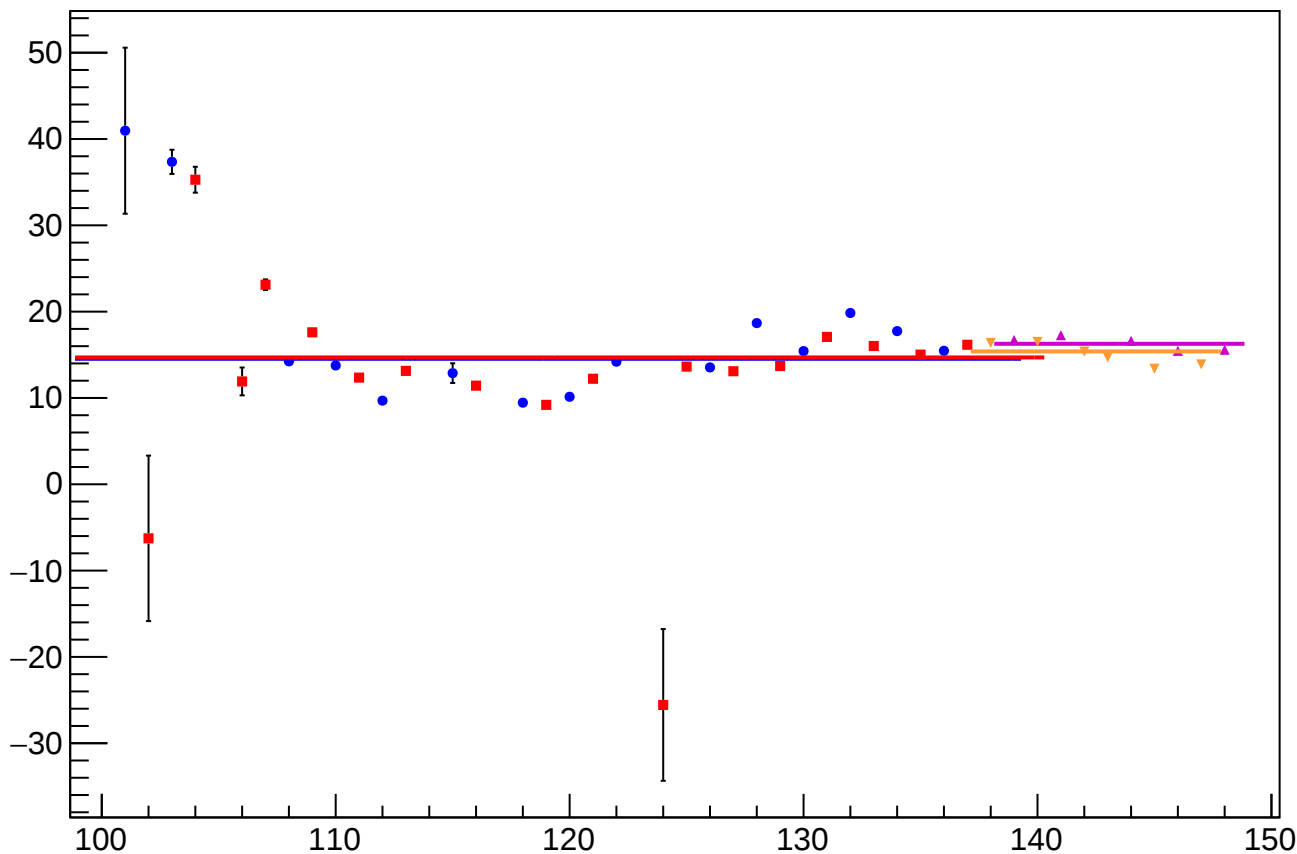
Left In:  $-28.718 \pm 0.035$   $\chi^2/\text{NDF}: 96107.7/4$

+ sign  $-31.134 \pm 0.029$   $\chi^2/\text{NDF}: 205384.2/20$

All:  $-27.537 \pm 0.019$   $\chi^2/\text{NDF}: 418362.8/43$

- sign  $-24.568 \pm 0.026$   $\chi^2/\text{NDF}: 184487.1/22$

# dit\_atr1\_4aY\_slope vs Slug



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 15.392 $\pm$ 0.033  $\chi^2$ /NDF:1209.7/5

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

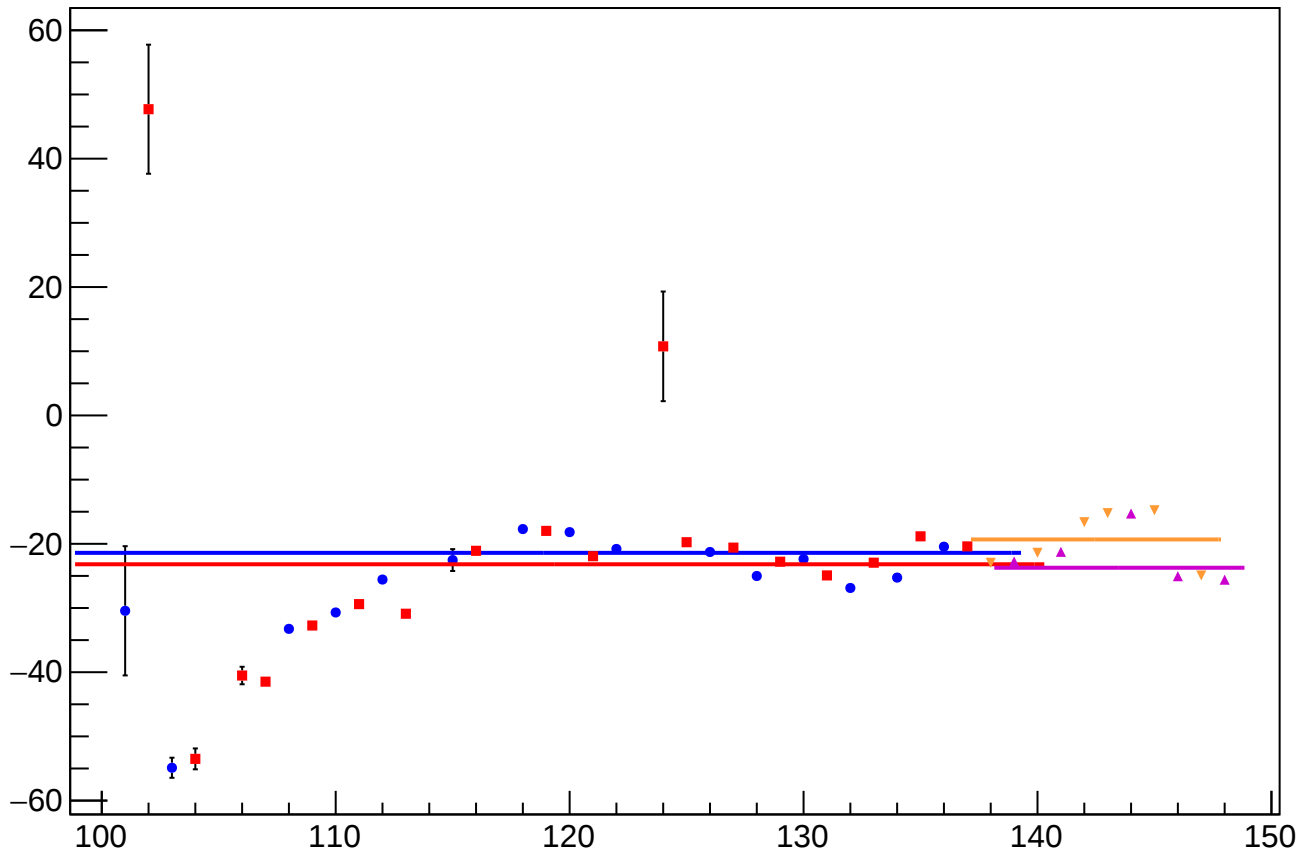
Left In: 16.276 $\pm$ 0.030  $\chi^2$ /NDF:619.4/4

+ sign 14.920 $\pm$ 0.022  $\chi^2$ /NDF: 13647.1/20

All: 15.292 $\pm$ 0.017  $\chi^2$ /NDF: 17424.5/43

- sign 15.760 $\pm$ 0.025  $\chi^2$ /NDF: 3141.7/22

# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-19.321 \pm 0.036$   $\chi^2/\text{NDF}: 13048.4/5$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

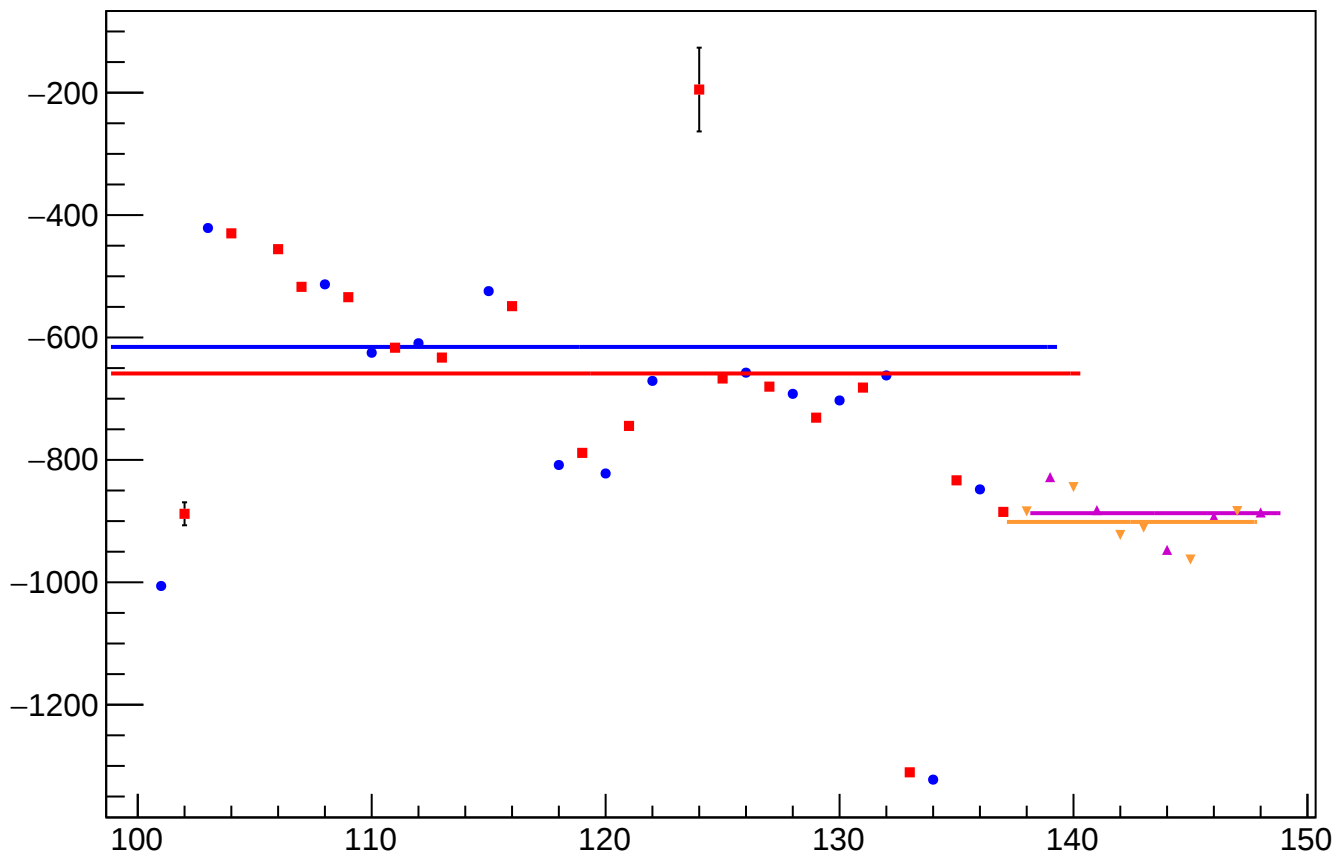
Left In:  $-23.728 \pm 0.038$   $\chi^2/\text{NDF}: 6340.6/4$

+ sign  $-20.386 \pm 0.025$   $\chi^2/\text{NDF}: 24417.5/20$

All:  $-21.677 \pm 0.020$   $\chi^2/\text{NDF}: 46252.9/43$

- sign  $-23.535 \pm 0.030$   $\chi^2/\text{NDF}: 15539.8/22$

# dit\_atr2\_4aX\_slope vs Slug



Right In:  $-615.419 \pm 0.238$   $\chi^2/\text{NDF}: 382819.1/14$

Left Out:  $-901.353 \pm 0.391$   $\chi^2/\text{NDF}: 7666.5/5$

Right Out:  $-658.787 \pm 0.256$   $\chi^2/\text{NDF}: 385262.6/17$

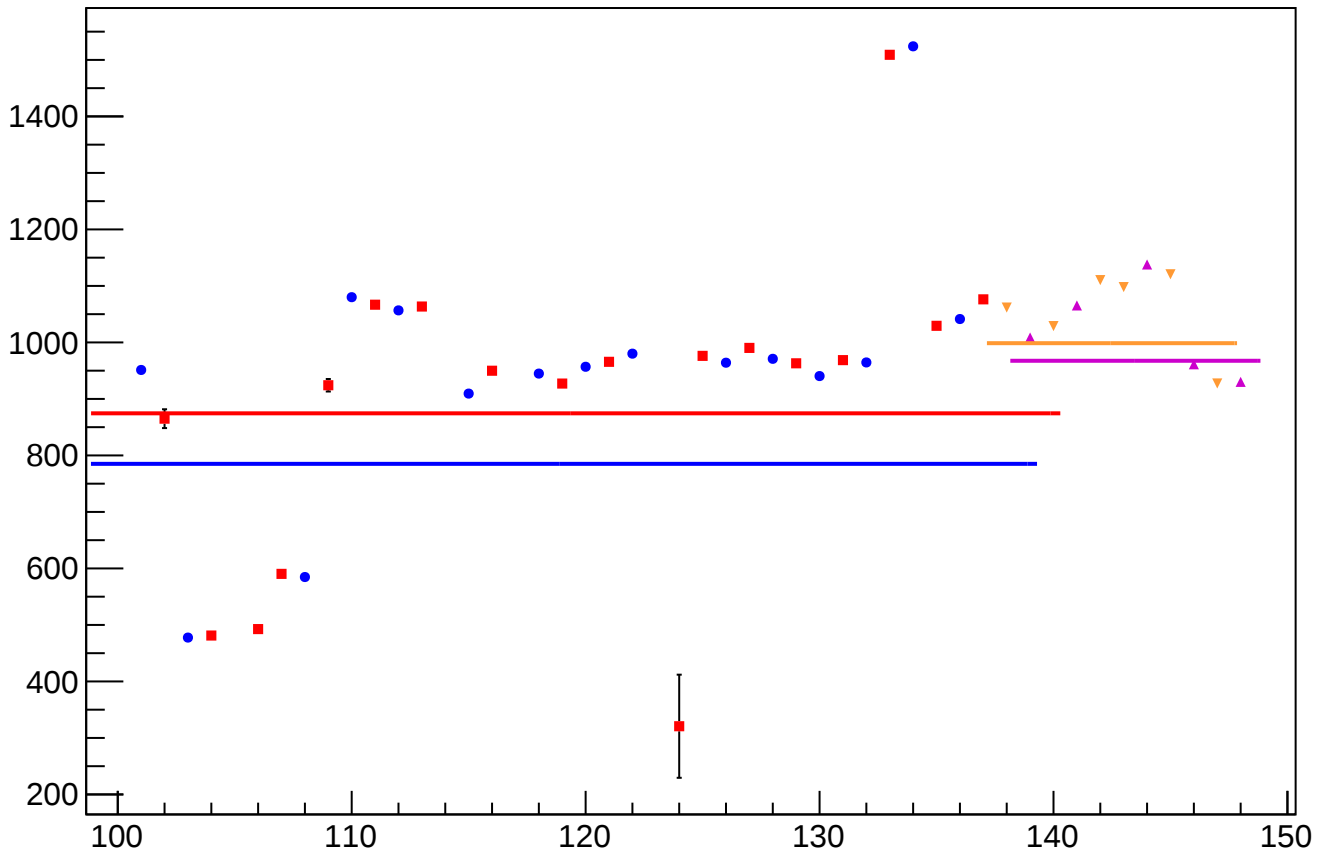
Left In:  $-887.040 \pm 0.269$   $\chi^2/\text{NDF}: 7987.2/4$

+ sign  $-692.450 \pm 0.203$   $\chi^2/\text{NDF}: 780634.4/20$

All:  $-733.261 \pm 0.137$   $\chi^2/\text{NDF}: 1625209.0/43$

- sign  $-767.345 \pm 0.186$   $\chi^2/\text{NDF}: 770468.6/22$

# dit\_atr2\_4eX\_slope vs Slug



Right In:  $785.095 \pm 0.228$   $\chi^2/\text{NDF}$ : 886147.1/14

Left Out:  $998.651 \pm 0.394$   $\chi^2/\text{NDF}$ : 41727.5/5

Right Out:  $874.516 \pm 0.261$   $\chi^2/\text{NDF}$ : 842565.5/17

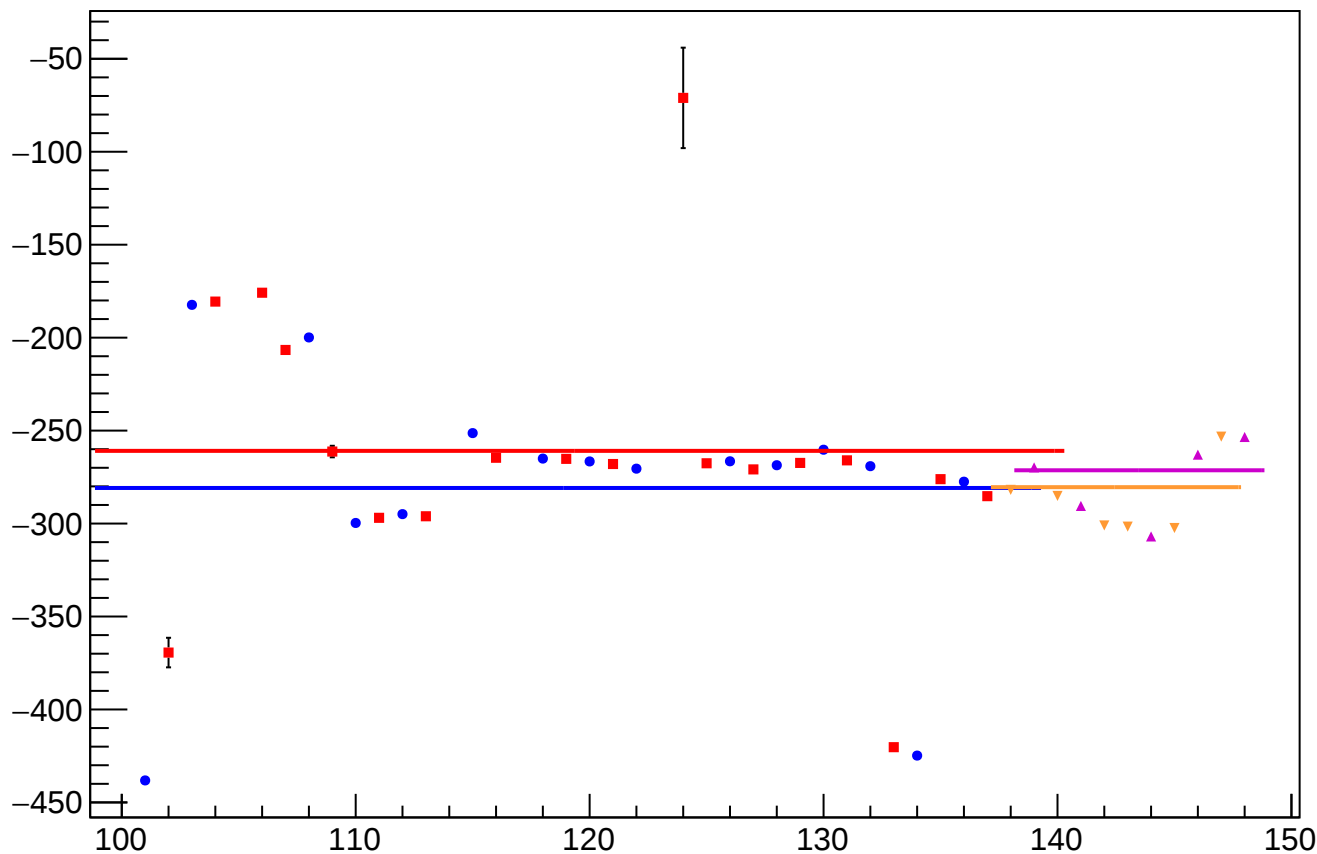
Left In:  $967.520 \pm 0.258$   $\chi^2/\text{NDF}$ : 59421.2/4

+ sign  $838.586 \pm 0.197$   $\chi^2/\text{NDF}$ : 1147547.1/20

All:  $883.084 \pm 0.134$   $\chi^2/\text{NDF}$ : 2208405.5/43

- sign  $921.578 \pm 0.184$   $\chi^2/\text{NDF}$ : 966110.9/22

# dit\_atr2\_11X12X\_slope vs Slug



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-280.428 \pm 0.085$   $\chi^2/\text{NDF}: 61401.3/5$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

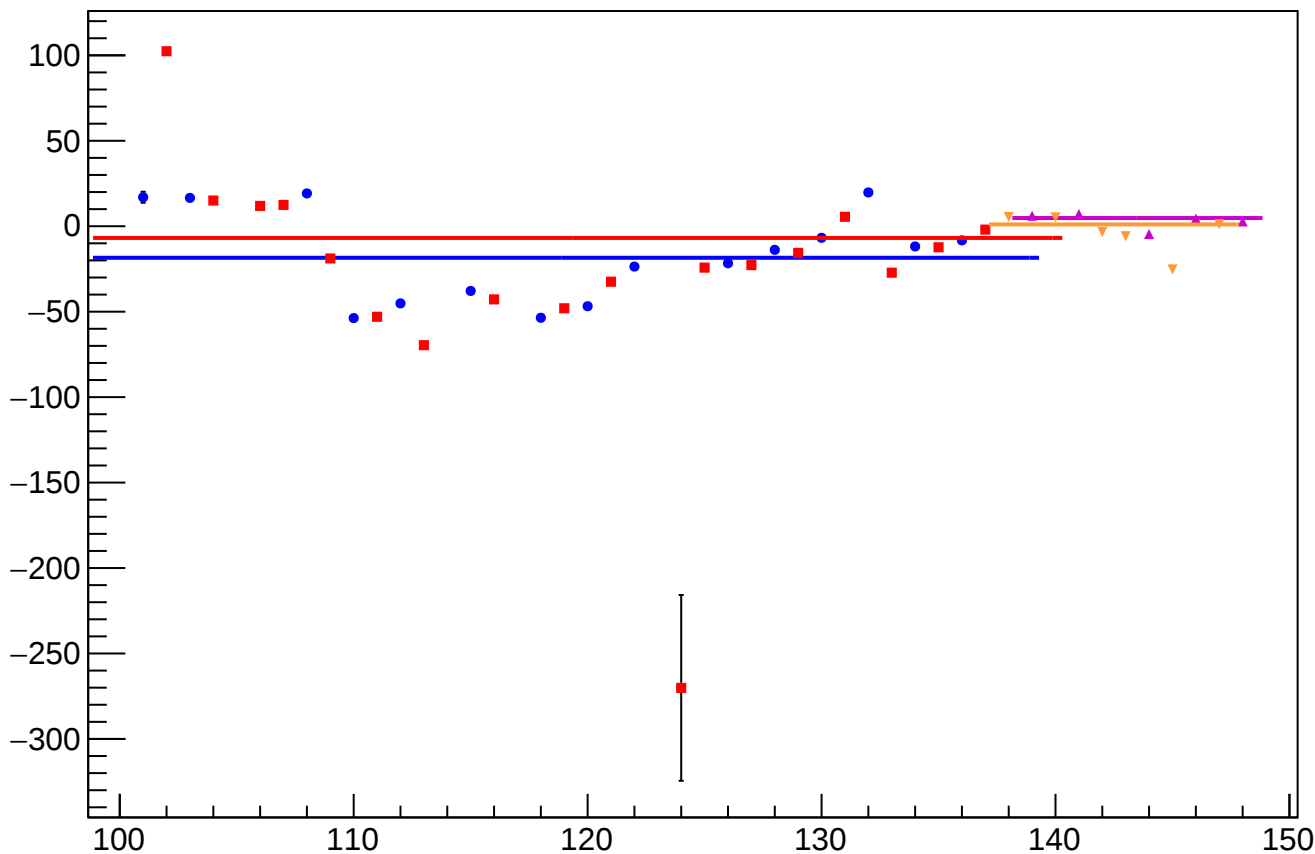
Left In:  $-271.343 \pm 0.052$   $\chi^2/\text{NDF}: 98071.3/4$

+ sign  $-280.719 \pm 0.048$   $\chi^2/\text{NDF}: 935029.4/20$

All:  $-273.043 \pm 0.031$   $\chi^2/\text{NDF}: 1439482.8/43$

- sign  $-267.464 \pm 0.041$   $\chi^2/\text{NDF}: 460818.3/22$

# dit\_atr2\_4aY\_slope vs Slug



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}: 46574.6/14$

Left Out:  $1.068 \pm 0.065$   $\chi^2/\text{NDF}: 5415.8/5$

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}: 50023.0/17$

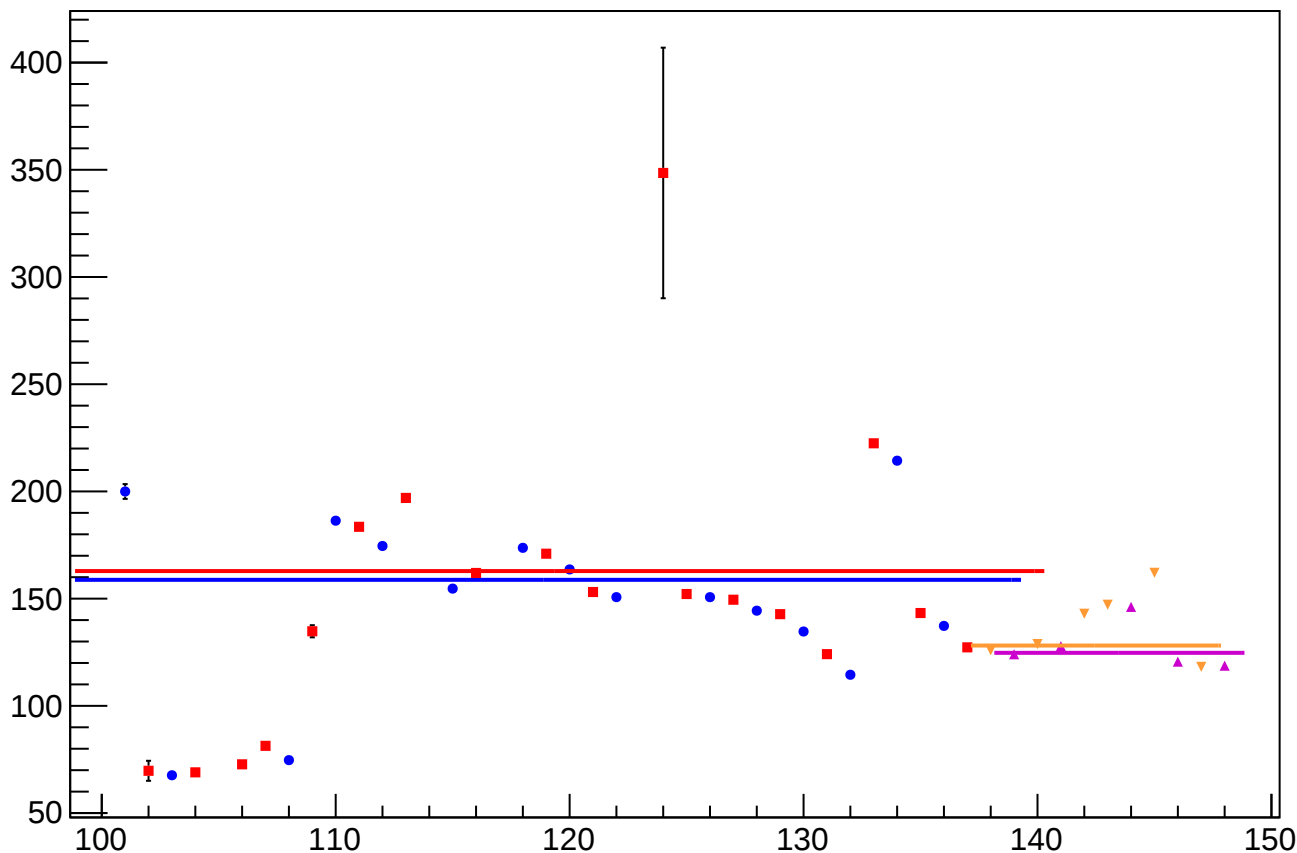
Left In:  $4.797 \pm 0.066$   $\chi^2/\text{NDF}: 1923.1/4$

+ sign  $-5.473 \pm 0.053$   $\chi^2/\text{NDF}: 82402.1/20$

All:  $-3.027 \pm 0.035$   $\chi^2/\text{NDF}: 154001.8/43$

- sign  $-1.157 \pm 0.046$   $\chi^2/\text{NDF}: 67817.8/22$

dit\_atr2\_4eY\_slope vs Slug



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 128.131 $\pm$ 0.082  $\chi^2$ /NDF: 23371.0/5

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

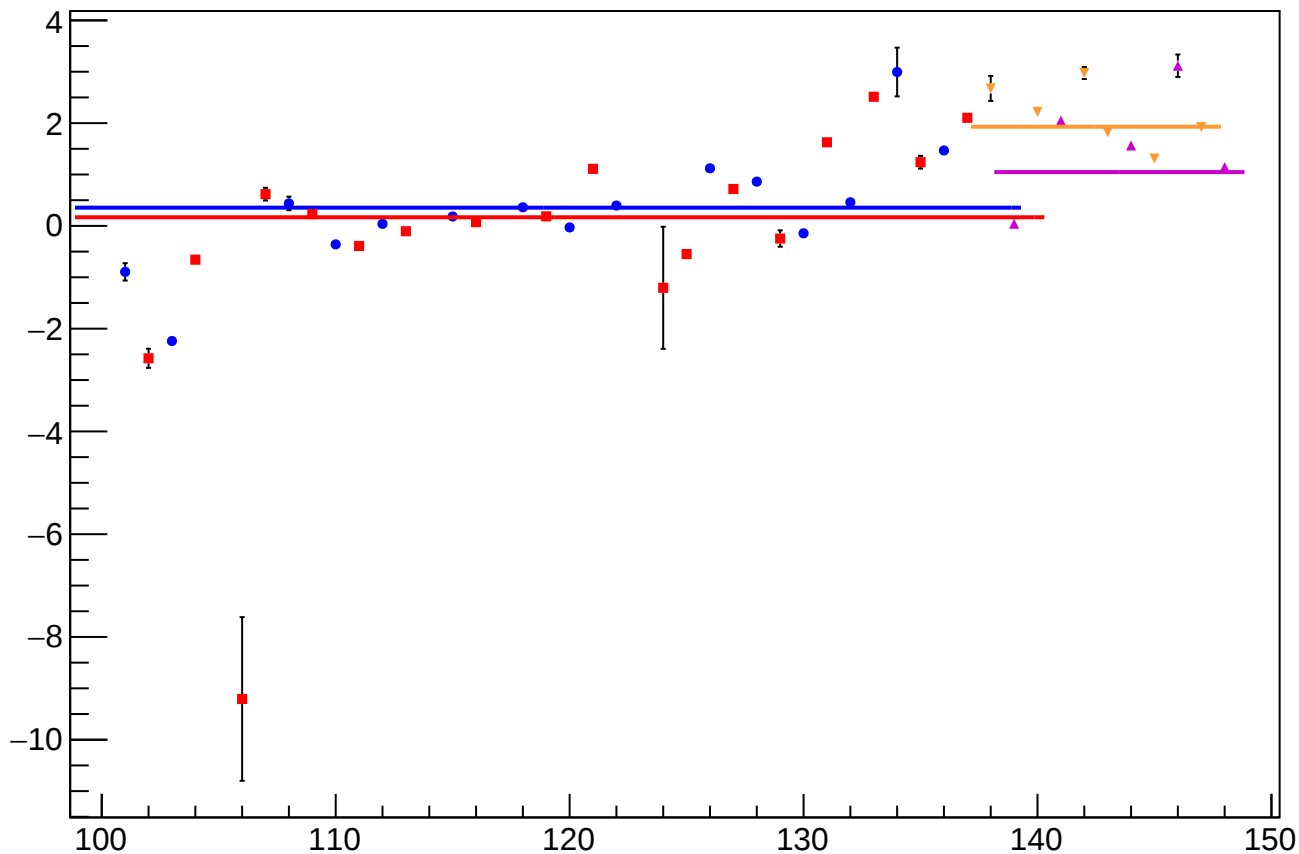
Left In: 124.726 $\pm$ 0.072  $\chi^2$ /NDF: 8616.4/4

+ sign 142.288 $\pm$ 0.060  $\chi^2$ /NDF: 247151.4/20

All: 140.547 $\pm$ 0.041  $\chi^2$ /NDF: 518218.2/43

- sign 138.976 $\pm$ 0.057  $\chi^2$ /NDF: 269466.3/22

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}$ : 4011.3/14

Left Out:  $1.930 \pm 0.023$   $\chi^2/\text{NDF}$ : 244.0/5

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}$ : 4588.1/17

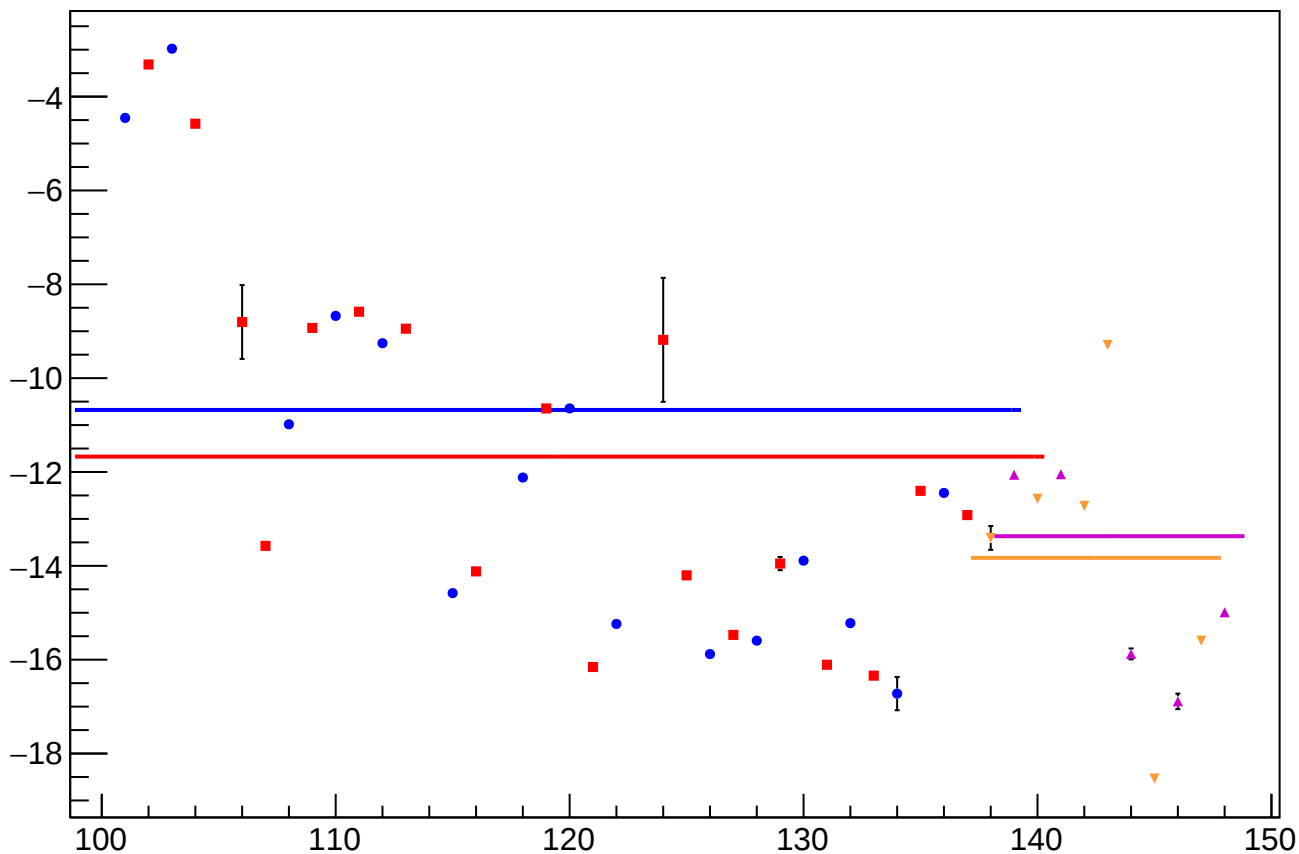
Left In:  $1.048 \pm 0.018$   $\chi^2/\text{NDF}$ : 2112.6/4

+ sign  $0.674 \pm 0.011$   $\chi^2/\text{NDF}$ : 7887.9/20

All:  $0.418 \pm 0.006$   $\chi^2/\text{NDF}$ : 17491.0/43

- sign  $0.304 \pm 0.007$   $\chi^2/\text{NDF}$ : 8745.1/22

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-13.830 \pm 0.019$   $\chi^2/\text{NDF}: 25271.0/5$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

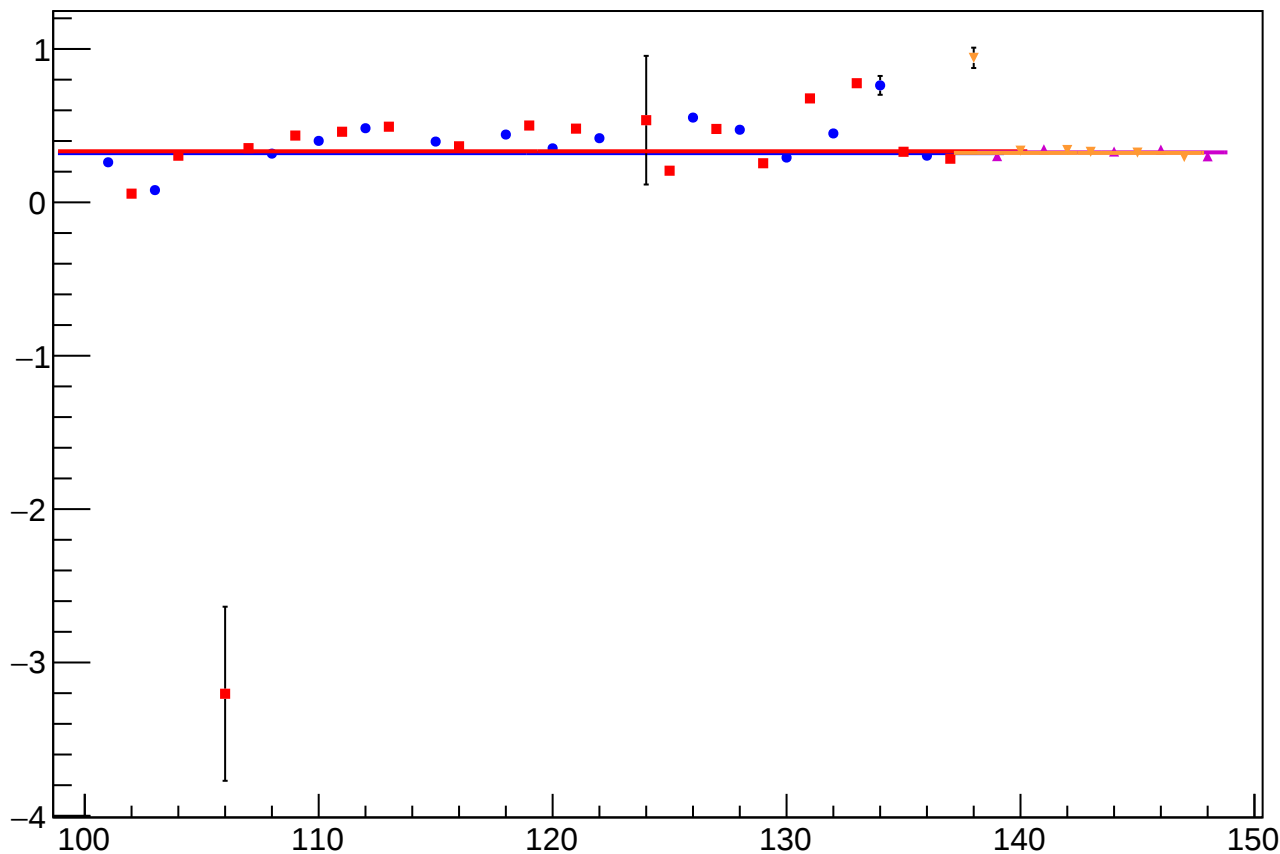
Left In:  $-13.368 \pm 0.023$   $\chi^2/\text{NDF}: 4607.9/4$

+ sign  $-11.380 \pm 0.009$   $\chi^2/\text{NDF}: 273031.2/20$

All:  $-11.655 \pm 0.007$   $\chi^2/\text{NDF}: 391919.8/43$

- sign  $-12.016 \pm 0.010$   $\chi^2/\text{NDF}: 116762.1/22$

# dit\_sam1\_11X12X\_slope vs Slug



Right In:  $0.321 \pm 0.001$   $\chi^2/\text{NDF}$ : 4017.7/14

Left Out:  $0.322 \pm 0.001$   $\chi^2/\text{NDF}$ : 1218.7/5

Right Out:  $0.333 \pm 0.001$   $\chi^2/\text{NDF}$ : 4170.0/17

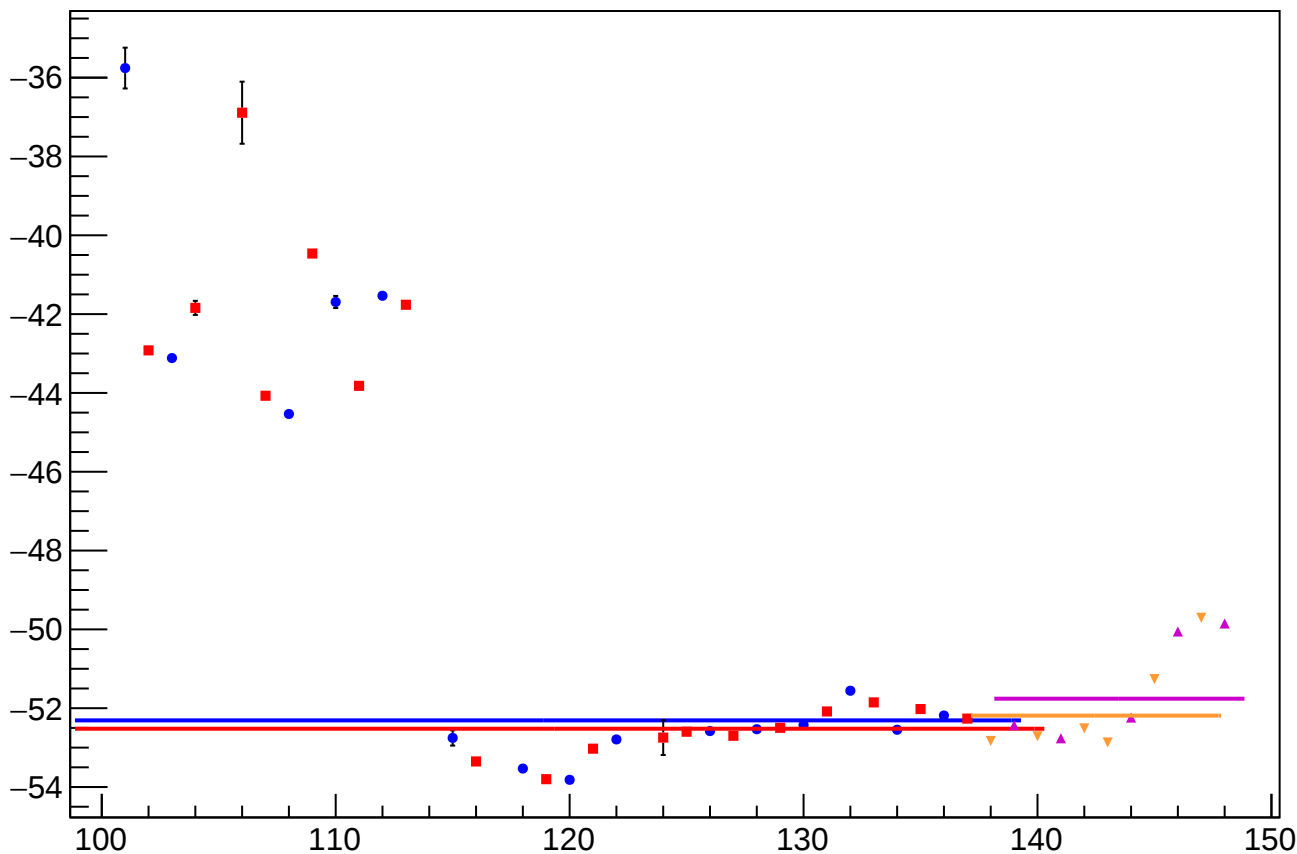
Left In:  $0.326 \pm 0.001$   $\chi^2/\text{NDF}$ : 704.8/4

+ sign  $0.322 \pm 0.000$   $\chi^2/\text{NDF}$ : 5238.5/20

All:  $0.324 \pm 0.000$   $\chi^2/\text{NDF}$ : 10189.4/43

- sign  $0.327 \pm 0.001$   $\chi^2/\text{NDF}$ : 4900.7/22

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}$ : 53459.2/14

Left Out:  $-52.188 \pm 0.005$   $\chi^2/\text{NDF}$ : 59736.7/5

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}$ : 76616.3/17

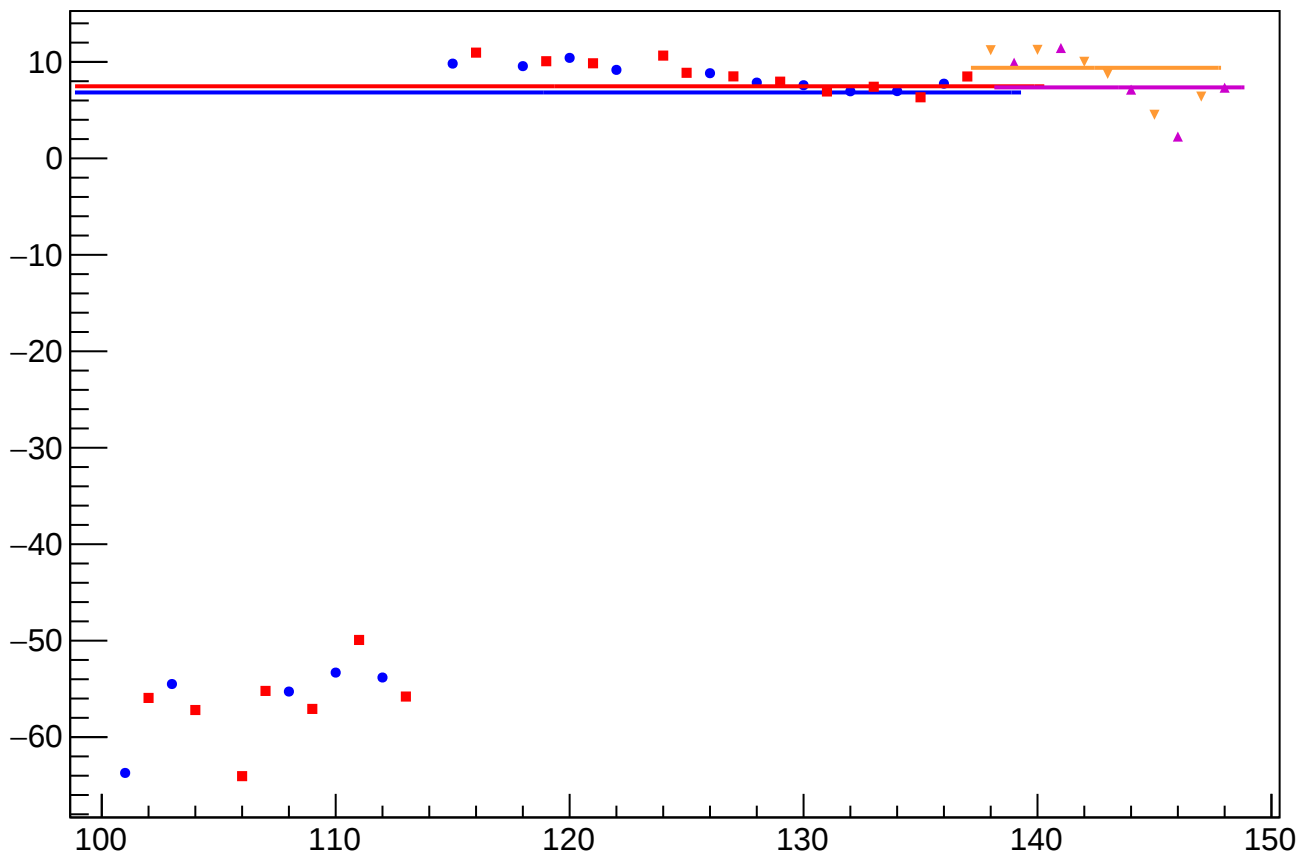
Left In:  $-51.759 \pm 0.005$   $\chi^2/\text{NDF}$ : 54681.5/4

+ sign  $-52.256 \pm 0.003$   $\chi^2/\text{NDF}$ : 113528.1/20

All:  $-52.225 \pm 0.002$   $\chi^2/\text{NDF}$ : 256840.0/43

- sign  $-52.191 \pm 0.003$   $\chi^2/\text{NDF}$ : 143132.3/22

# dit\_sam1\_4eY\_slope vs Slug



Right In:  $6.834 \pm 0.005$   $\chi^2/\text{NDF}$ : 990576.4/14

Left Out:  $9.389 \pm 0.012$   $\chi^2/\text{NDF}$ : 32464.9/5

Right Out:  $7.474 \pm 0.009$   $\chi^2/\text{NDF}$ : 1195498.7/17

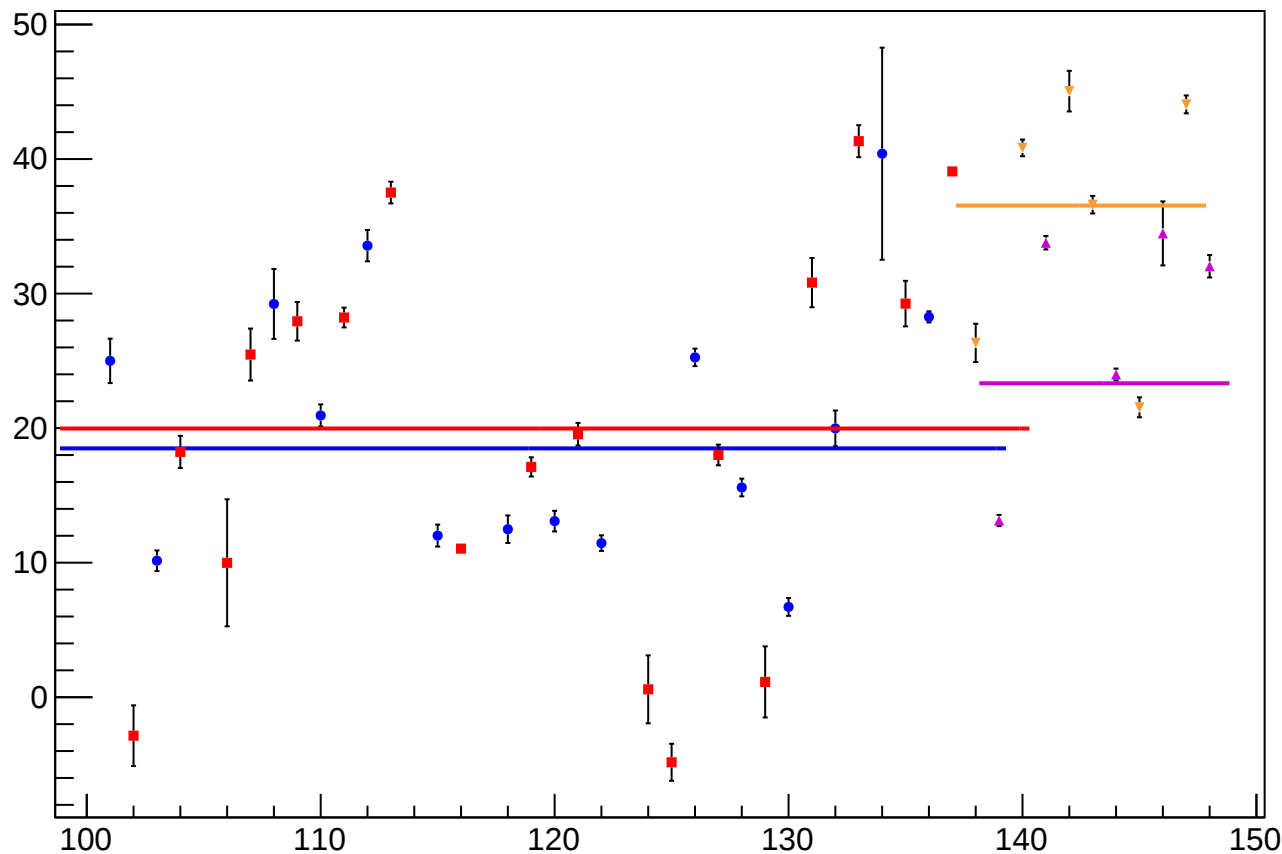
Left In:  $7.359 \pm 0.013$   $\chi^2/\text{NDF}$ : 72720.8/4

+ sign  $7.217 \pm 0.005$   $\chi^2/\text{NDF}$ : 1061224.2/20

All:  $7.278 \pm 0.004$   $\chi^2/\text{NDF}$ : 2330102.9/43

- sign  $7.433 \pm 0.007$   $\chi^2/\text{NDF}$ : 1268273.6/22

# dit\_sam2\_4aX\_slope vs Slug



Right In:  $18.496 \pm 0.200$   $\chi^2/\text{NDF}: 1636.7/14$

Left Out:  $36.542 \pm 0.317$   $\chi^2/\text{NDF}: 665.9/5$

Right Out:  $19.974 \pm 0.130$   $\chi^2/\text{NDF}: 9201.3/17$

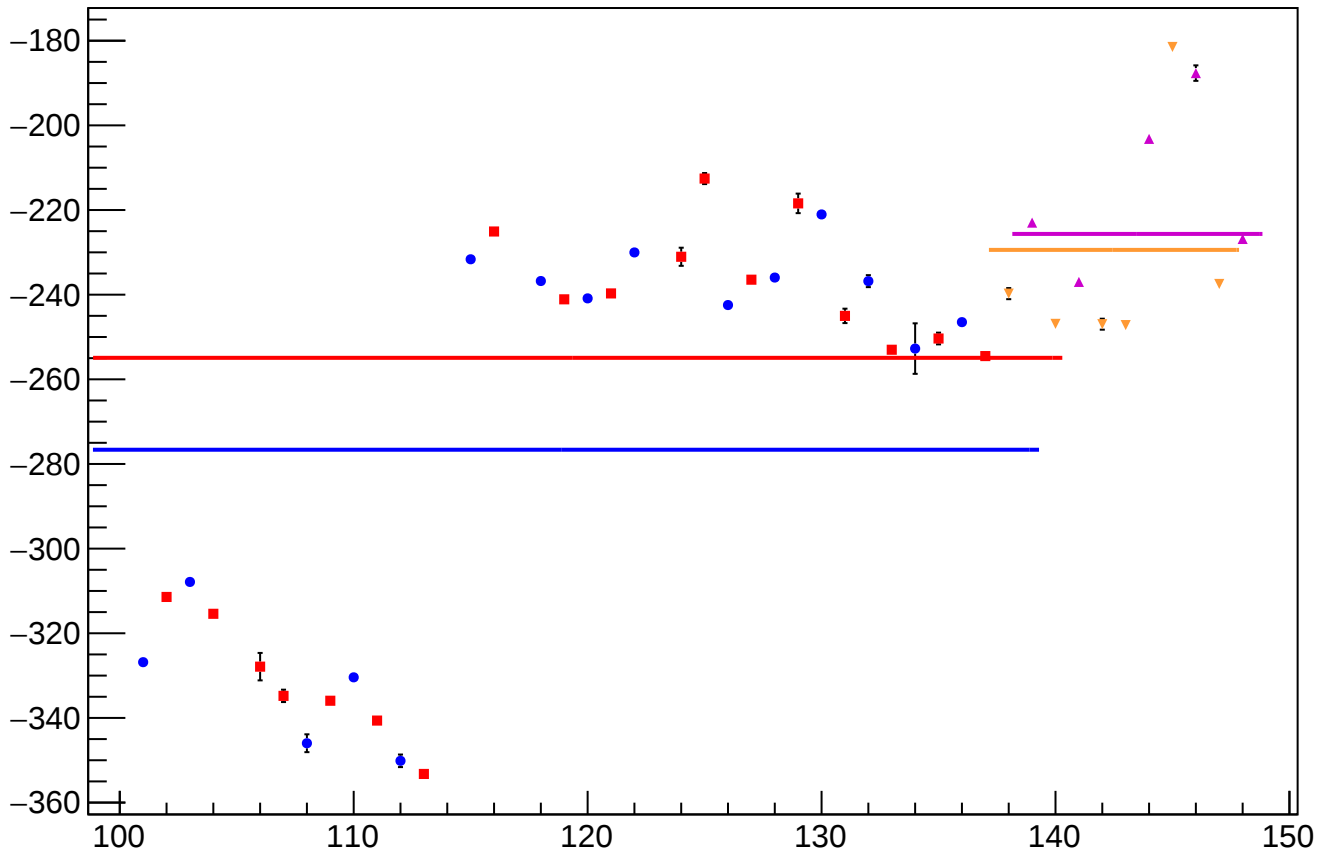
Left In:  $23.335 \pm 0.246$   $\chi^2/\text{NDF}: 1173.9/4$

+ sign  $23.647 \pm 0.169$   $\chi^2/\text{NDF}: 4625.1/20$

All:  $21.638 \pm 0.095$   $\chi^2/\text{NDF}: 15352.4/43$

- sign  $20.708 \pm 0.115$   $\chi^2/\text{NDF}: 10520.9/22$

# dit\_sam2\_4eX\_slope vs Slug



Right In: -276.636+/-0.148  $\chi^2$ /NDF: 77119.6/14

Left Out: -229.420+/-0.258  $\chi^2$ /NDF:10501.5/5

Right Out: -254.921+/-0.071  $\chi^2$ /NDF: 71945.8/17

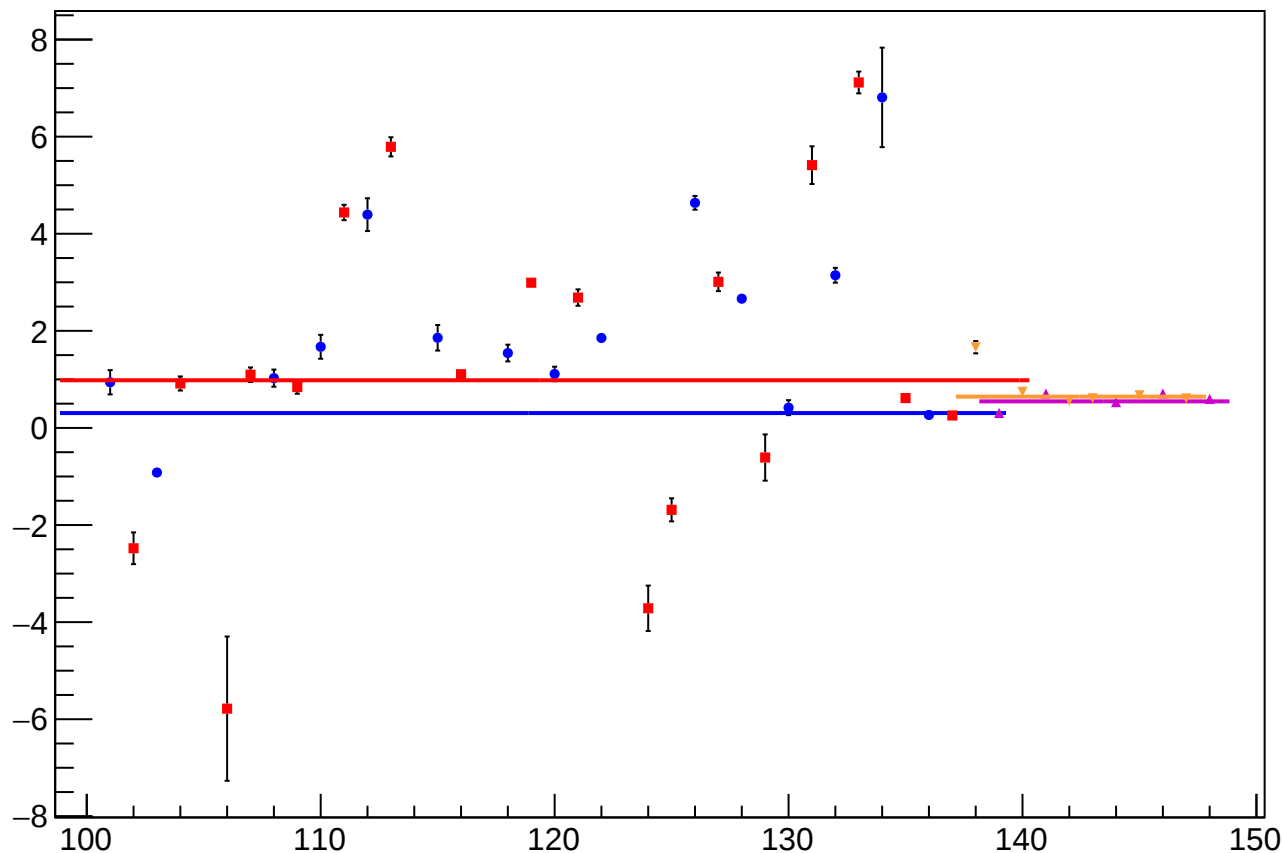
Left In: -225.648+/-0.236  $\chi^2$ /NDF:2118.4/4

+ sign -264.966+/-0.128  $\chi^2$ /NDF: 112932.6/20

All: -255.242+/-0.060  $\chi^2$ /NDF: 208471.9/43

- sign -252.483+/-0.068  $\chi^2$ /NDF: 88132.6/22

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}: 2787.0/14$

Left Out:  $0.645 \pm 0.004$   $\chi^2/\text{NDF}: 257.6/5$

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}: 3374.7/17$

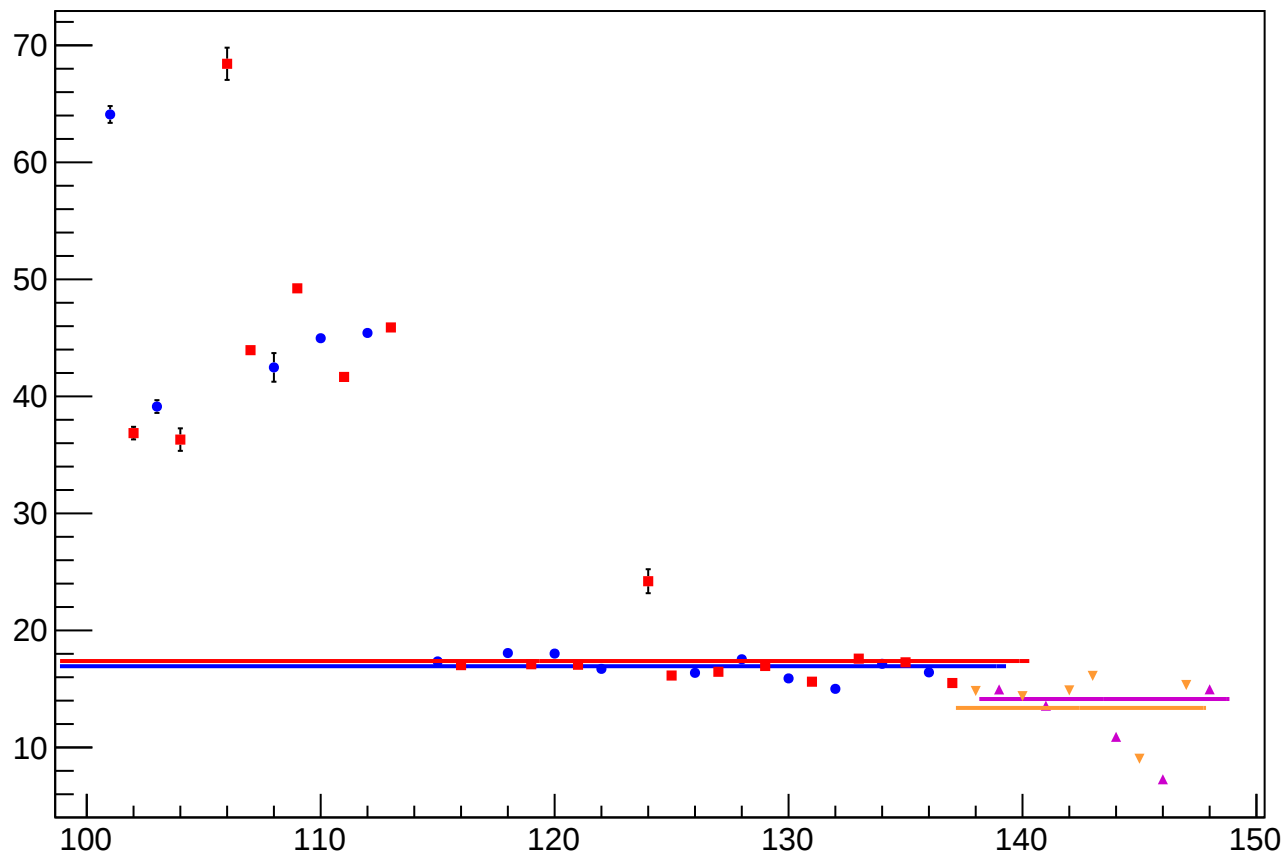
Left In:  $0.547 \pm 0.004$   $\chi^2/\text{NDF}: 1611.7/4$

+ sign  $0.542 \pm 0.004$   $\chi^2/\text{NDF}: 4854.0/20$

All:  $0.559 \pm 0.003$   $\chi^2/\text{NDF}: 10699.4/43$

- sign  $0.578 \pm 0.004$   $\chi^2/\text{NDF}: 5800.9/22$

# dit\_sam2\_4aY\_slope vs Slug



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}: 29019.8/14$

Left Out:  $13.377 \pm 0.014$   $\chi^2/\text{NDF}: 41252.8/5$

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}: 61131.5/17$

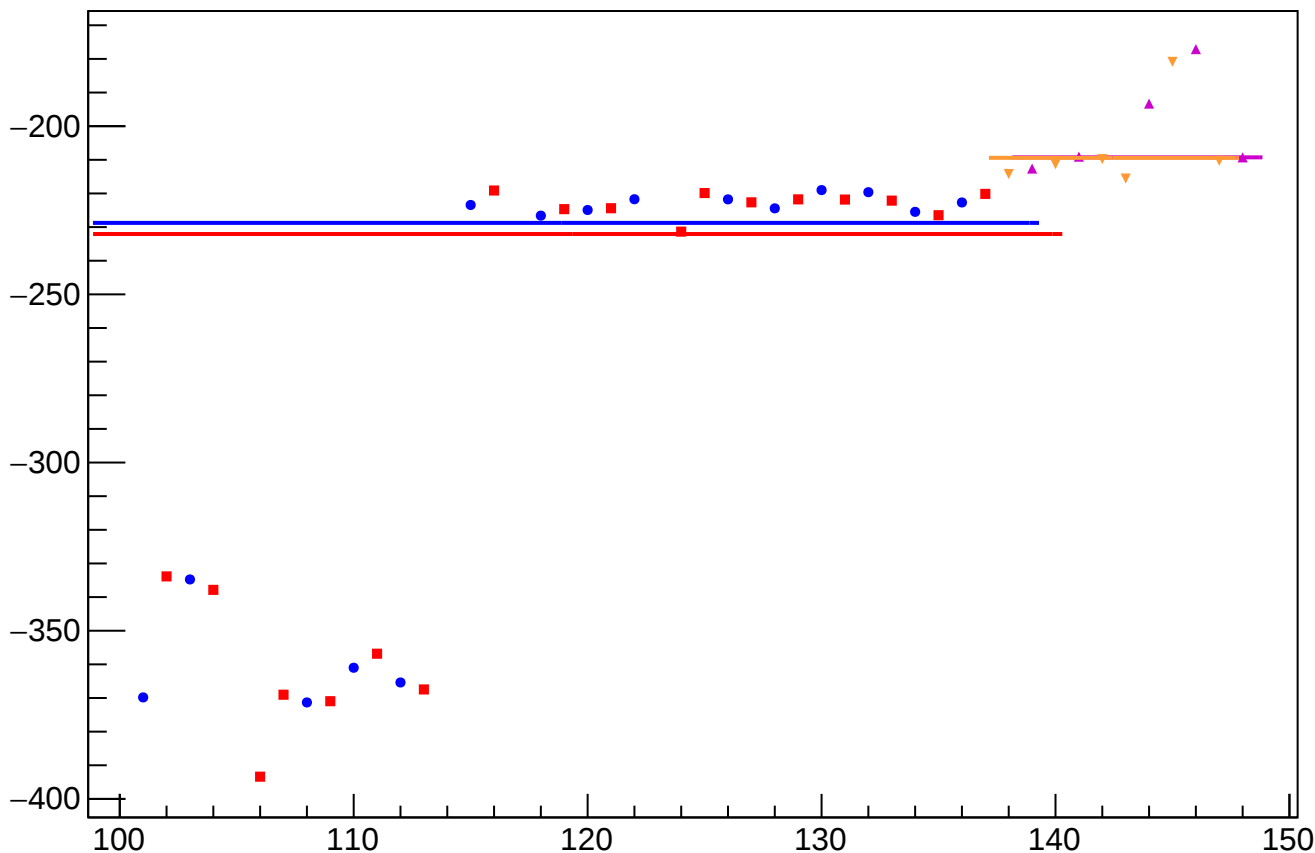
Left In:  $14.140 \pm 0.023$   $\chi^2/\text{NDF}: 4961.1/4$

+ sign  $15.356 \pm 0.010$   $\chi^2/\text{NDF}: 104387.4/20$

All:  $15.618 \pm 0.008$   $\chi^2/\text{NDF}: 185544.3/43$

- sign  $16.171 \pm 0.014$   $\chi^2/\text{NDF}: 78828.8/22$

# dit\_sam2\_4eY\_slope vs Slug



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}$ : 657578.5/14

Left Out:  $-209.408 \pm 0.035$   $\chi^2/\text{NDF}$ : 64965.5/5

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}$ : 791526.5/17

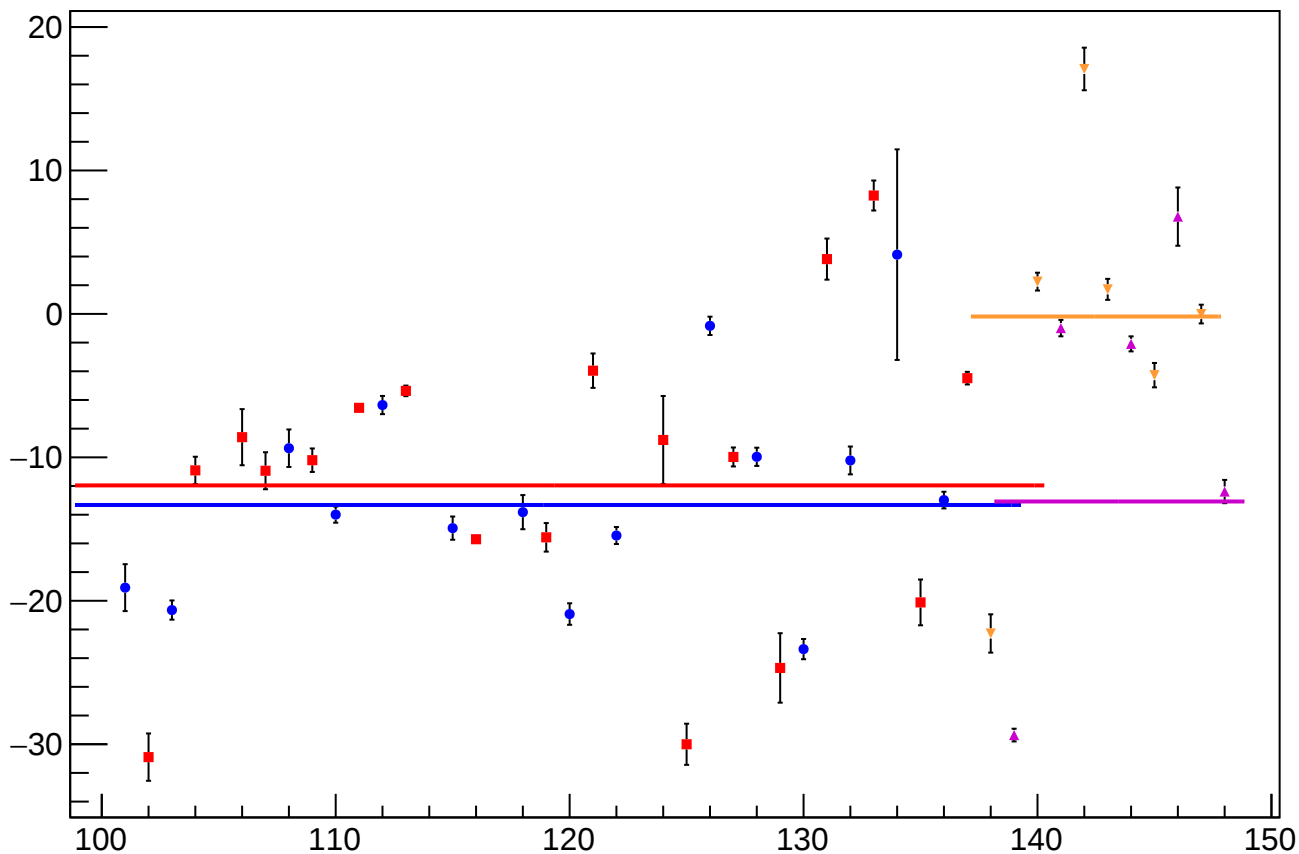
Left In:  $-209.266 \pm 0.038$   $\chi^2/\text{NDF}$ : 8959.2/4

+ sign  $-219.249 \pm 0.025$   $\chi^2/\text{NDF}$ : 875280.5/20

All:  $-219.479 \pm 0.019$   $\chi^2/\text{NDF}$ : 1840074.5/43

- sign  $-219.776 \pm 0.028$   $\chi^2/\text{NDF}$ : 964595.3/22

# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $-0.182 \pm 0.330$   $\chi^2/\text{NDF}: 454.2/5$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

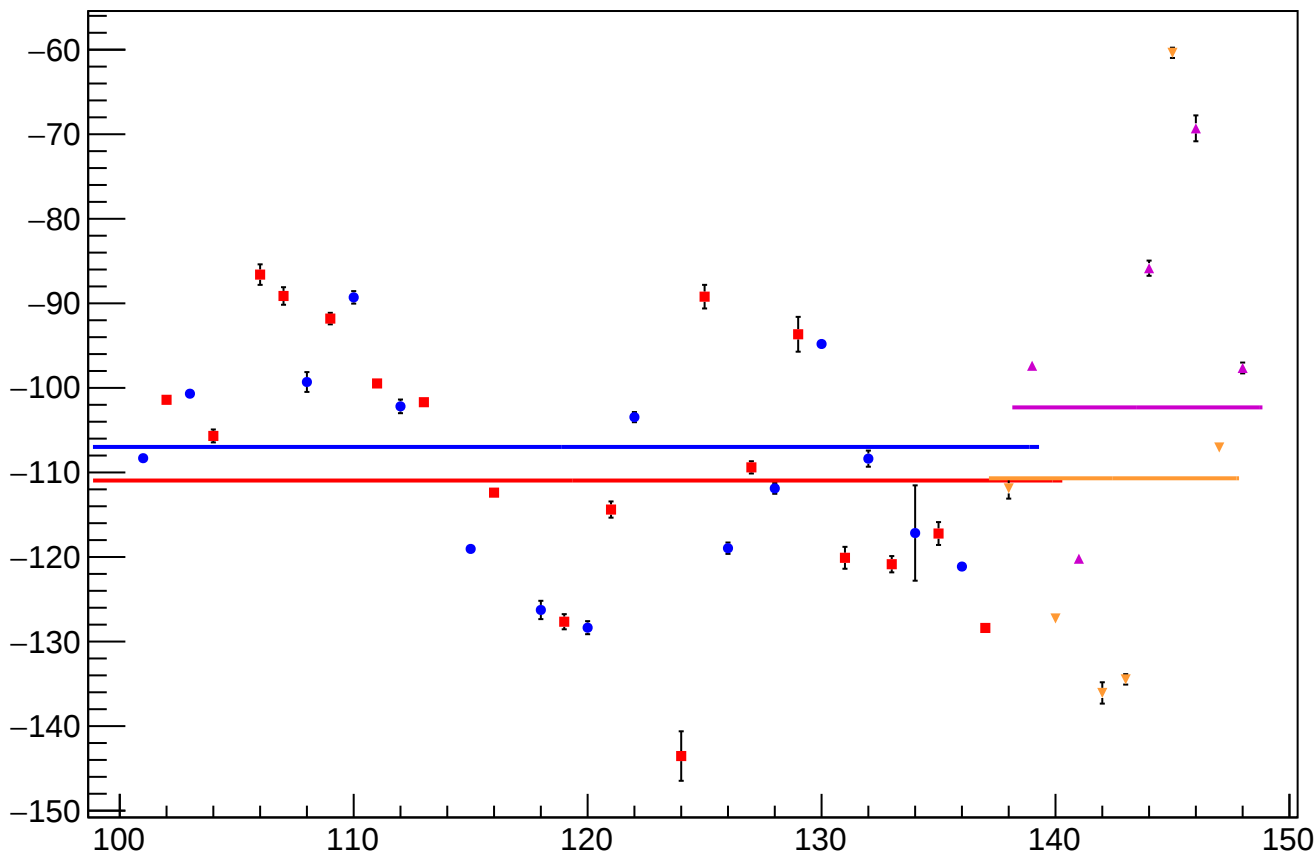
Left In:  $-13.077 \pm 0.272$   $\chi^2/\text{NDF}: 2329.5/4$

+ sign  $-9.950 \pm 0.167$   $\chi^2/\text{NDF}: 2647.8/20$

All:  $-11.514 \pm 0.088$   $\chi^2/\text{NDF}: 7600.7/43$

- sign  $-12.121 \pm 0.104$   $\chi^2/\text{NDF}: 4831.2/22$

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}: 4658.3/14$

Left Out:  $-110.691 \pm 0.263$   $\chi^2/\text{NDF}: 9928.6/5$

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}: 10675.0/17$

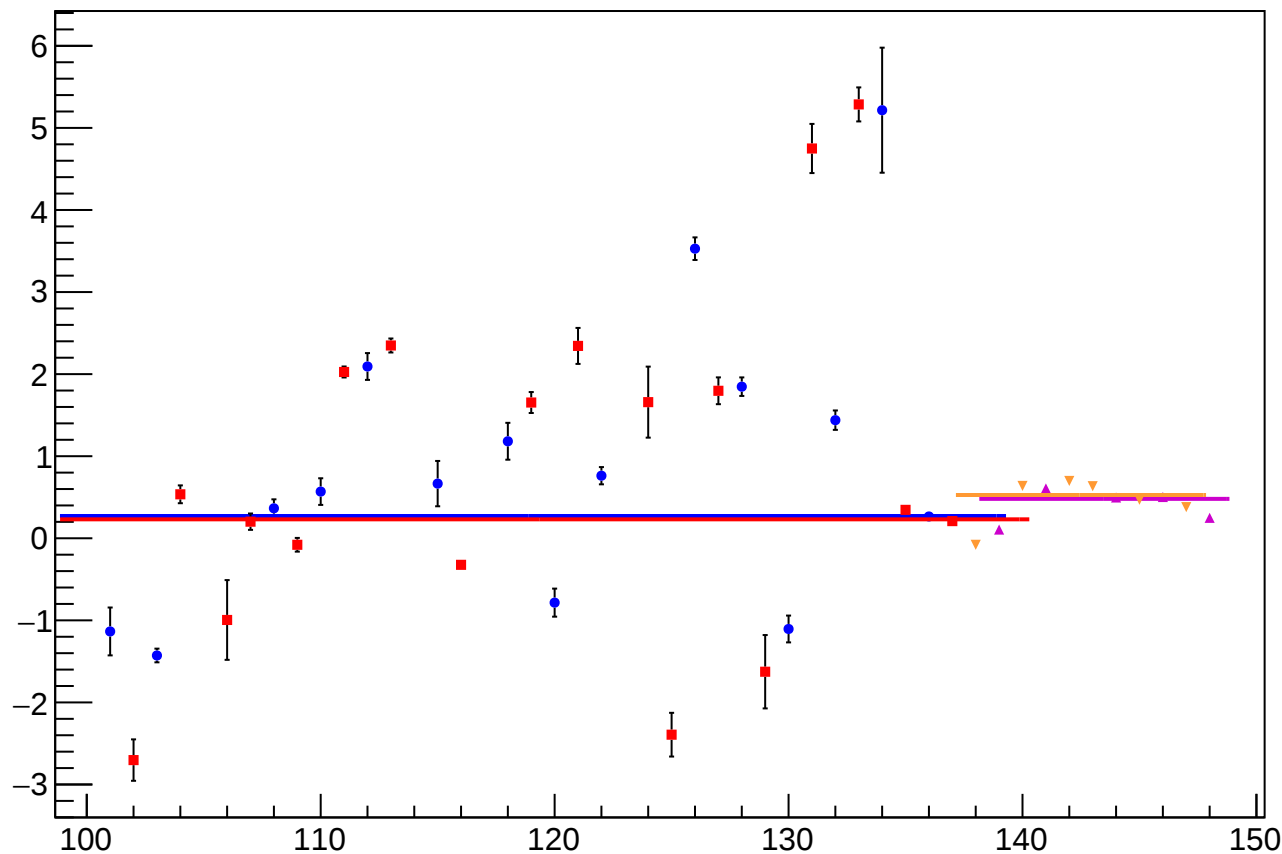
Left In:  $-102.306 \pm 0.244$   $\chi^2/\text{NDF}: 2561.9/4$

+ sign  $-107.534 \pm 0.102$   $\chi^2/\text{NDF}: 14755.9/20$

All:  $-110.021 \pm 0.044$   $\chi^2/\text{NDF}: 29936.6/43$

- sign  $-110.604 \pm 0.049$   $\chi^2/\text{NDF}: 14439.6/22$

# dit\_sam3\_11X12X\_slope vs Slug



Right In:  $0.271 \pm 0.005$   $\chi^2/\text{NDF}$ : 1612.2/14

Left Out:  $0.527 \pm 0.005$   $\chi^2/\text{NDF}$ : 1297.2/5

Right Out:  $0.231 \pm 0.004$   $\chi^2/\text{NDF}$ : 2907.8/17

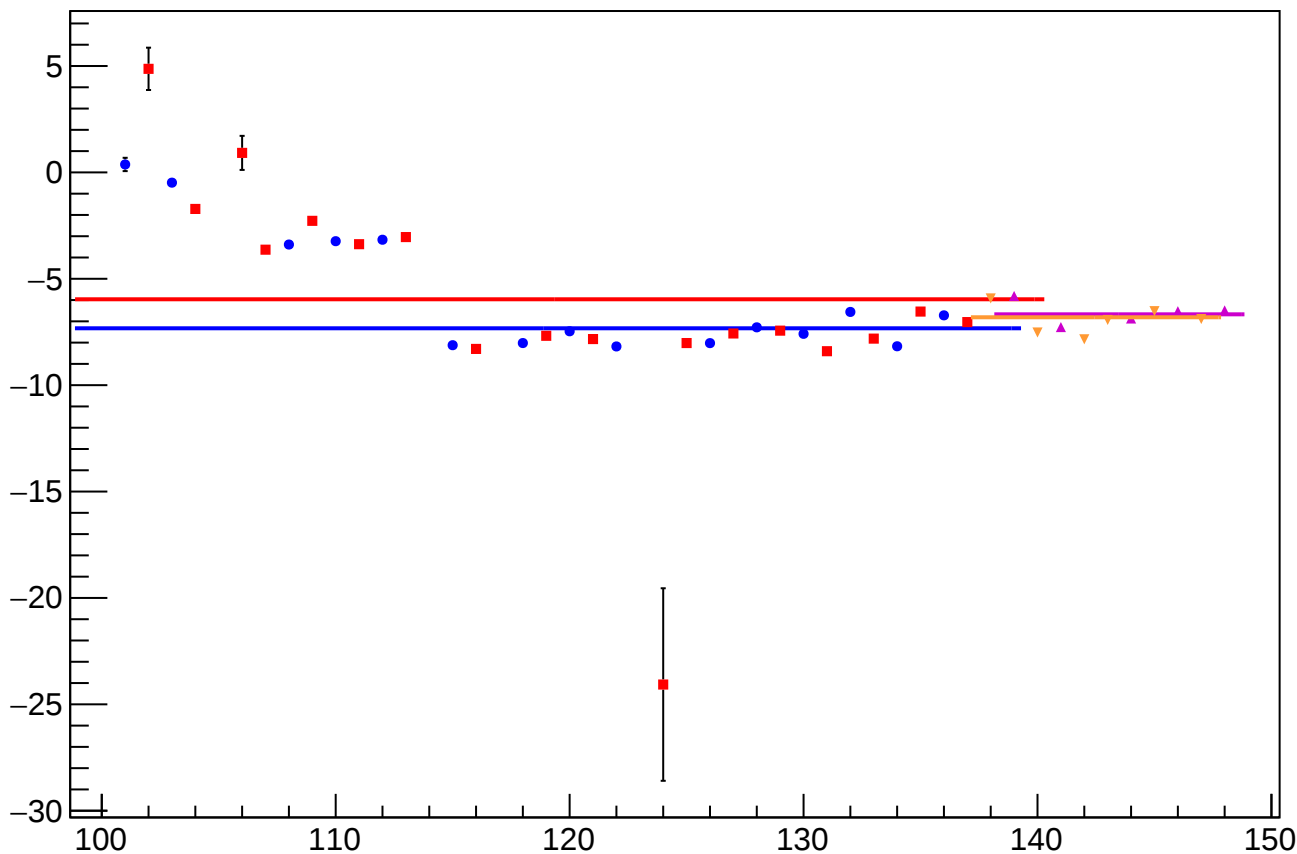
Left In:  $0.480 \pm 0.004$   $\chi^2/\text{NDF}$ : 2561.9/4

+ sign  $0.407 \pm 0.004$   $\chi^2/\text{NDF}$ : 4133.9/20

All:  $0.391 \pm 0.002$   $\chi^2/\text{NDF}$ : 11559.0/43

- sign  $0.381 \pm 0.003$   $\chi^2/\text{NDF}$ : 7395.0/22

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14

Left Out:  $-6.809 \pm 0.011$   $\chi^2/\text{NDF}$ : 1430.7/5

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17

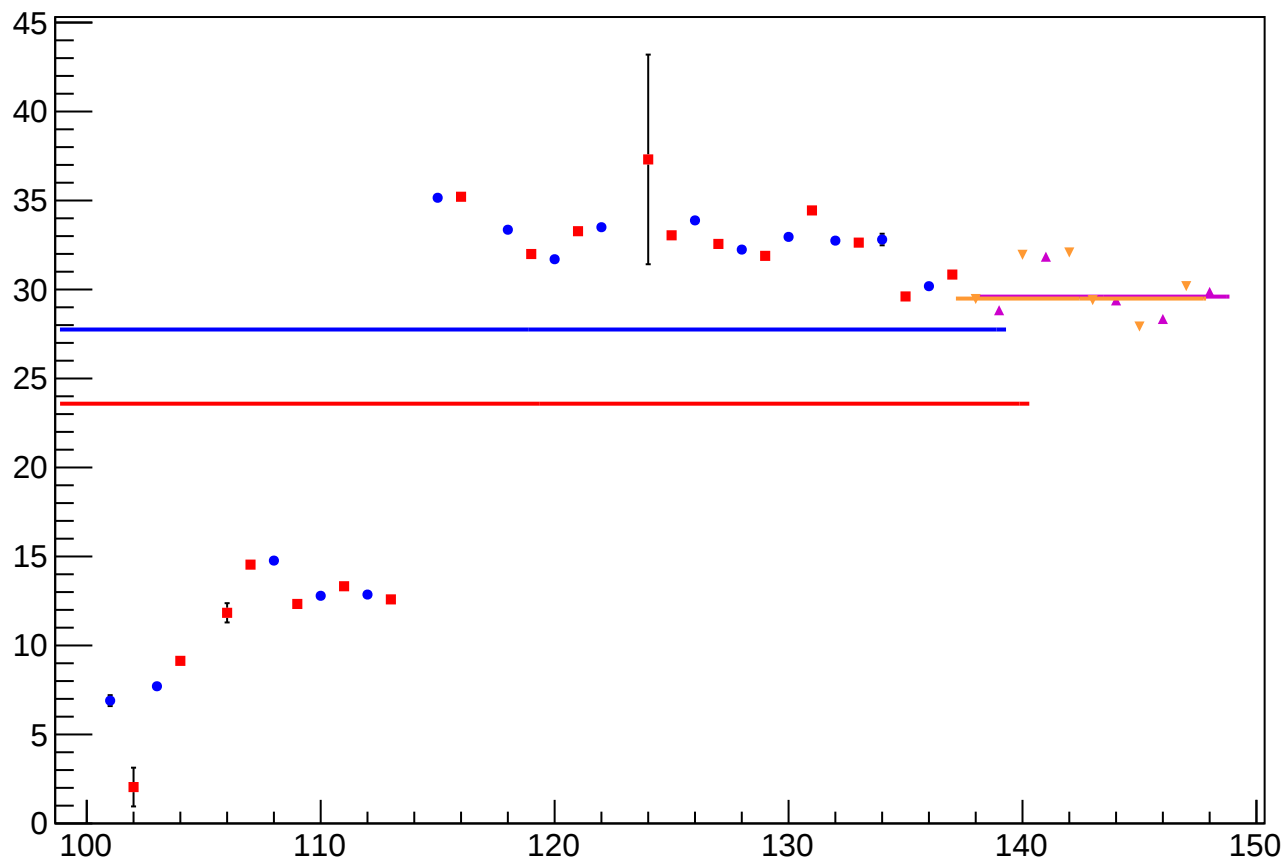
Left In:  $-6.671 \pm 0.009$   $\chi^2/\text{NDF}$ : 2737.6/4

+ sign  $-7.136 \pm 0.007$   $\chi^2/\text{NDF}$ : 33331.4/20

All:  $-6.699 \pm 0.005$   $\chi^2/\text{NDF}$ : 119210.2/43

- sign  $-6.301 \pm 0.006$   $\chi^2/\text{NDF}$ : 77638.0/22

# dit\_sam3\_4eY\_slope vs Slug



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.491 $\pm$ 0.020  $\chi^2$ /NDF: 5850.5/5

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

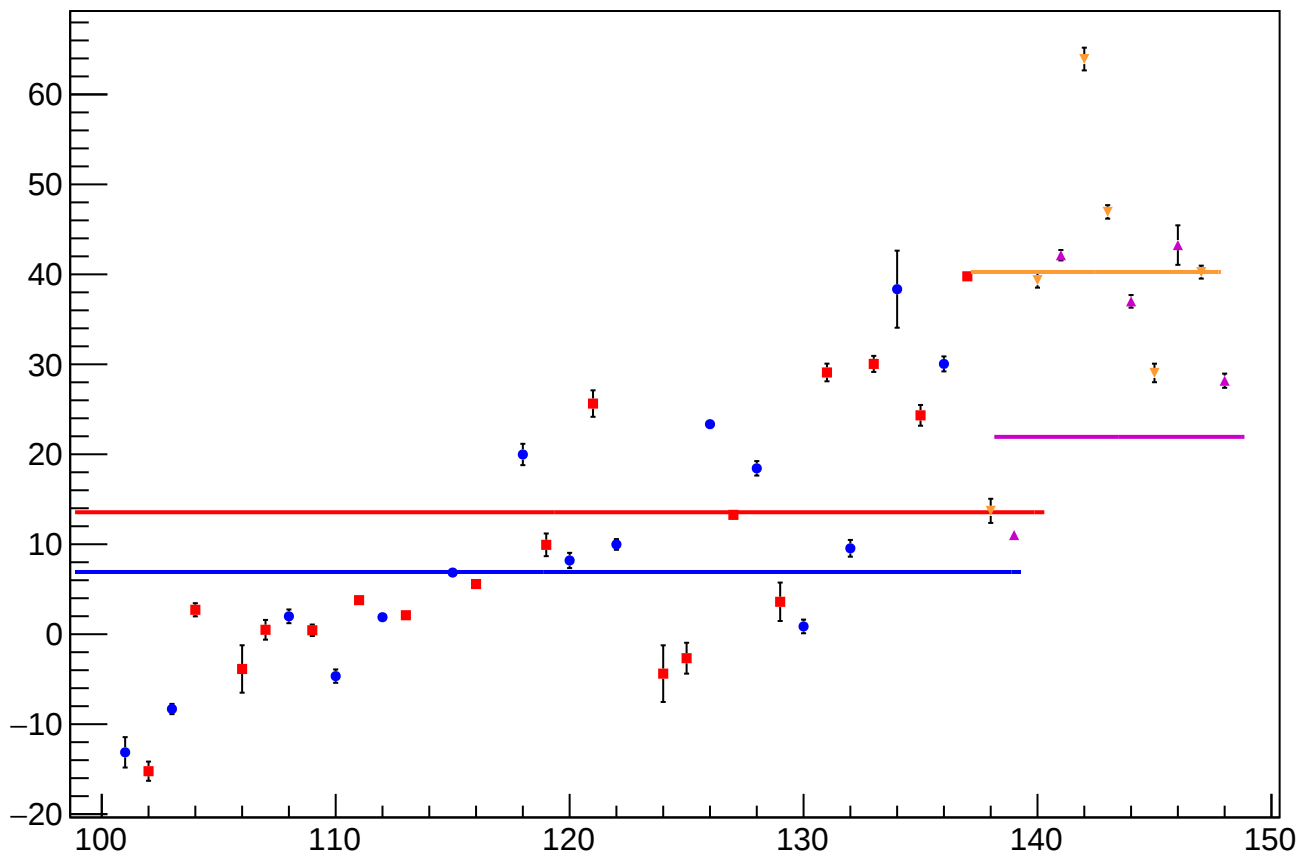
Left In: 29.601 $\pm$ 0.023  $\chi^2$ /NDF: 1450.3/4

+ sign 28.384 $\pm$ 0.012  $\chi^2$ /NDF: 343632.9/20

All: 26.747 $\pm$ 0.008  $\chi^2$ /NDF: 972017.2/43

- sign 25.174 $\pm$ 0.012  $\chi^2$ /NDF: 591898.9/22

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}$ : 3503.2/14

Left Out:  $40.264 \pm 0.371$   $\chi^2/\text{NDF}$ : 940.6/5

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}$ : 11657.2/17

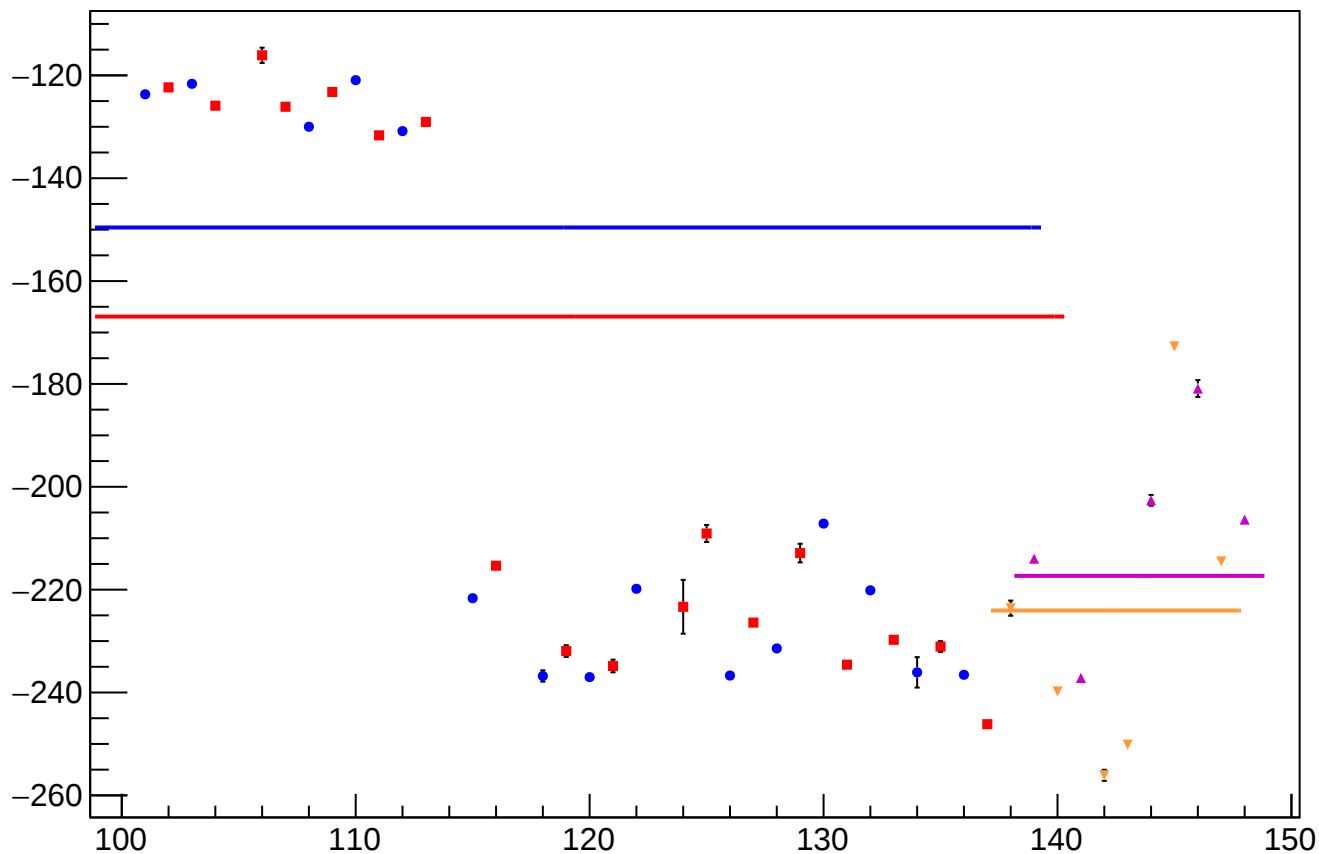
Left In:  $21.937 \pm 0.247$   $\chi^2/\text{NDF}$ : 2978.0/4

+ sign  $13.062 \pm 0.159$   $\chi^2/\text{NDF}$ : 11019.5/20

All:  $14.703 \pm 0.098$   $\chi^2/\text{NDF}$ : 26683.6/43

- sign  $15.711 \pm 0.125$   $\chi^2/\text{NDF}$ : 15493.2/22

# dit\_sam4\_4eX\_slope vs Slug



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}: 195091.5/14$

Left Out:  $-224.059 \pm 0.307$   $\chi^2/\text{NDF}: 8391.2/5$

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}: 295489.9/17$

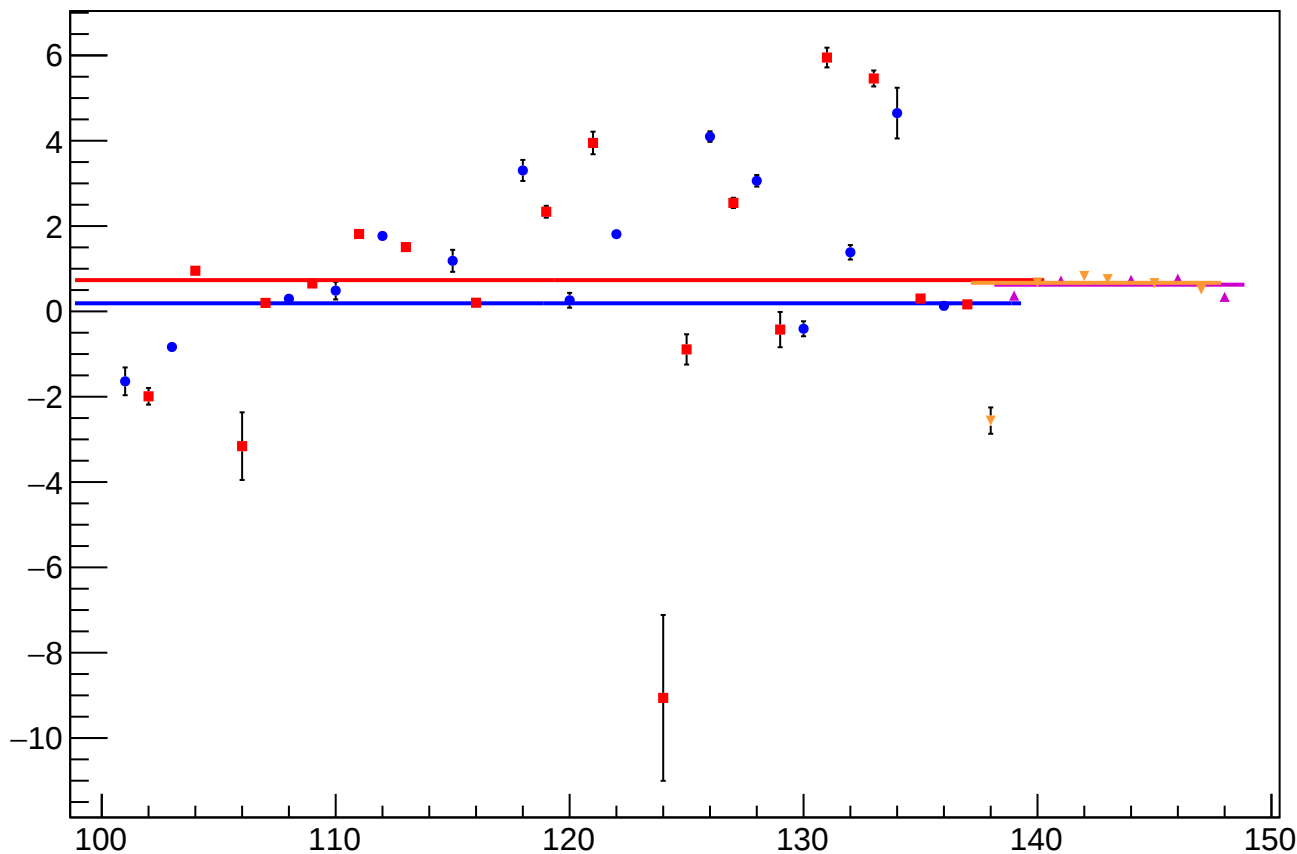
Left In:  $-217.323 \pm 0.218$   $\chi^2/\text{NDF}: 3038.8/4$

+ sign  $-156.841 \pm 0.096$   $\chi^2/\text{NDF}: 256632.5/20$

All:  $-166.760 \pm 0.066$   $\chi^2/\text{NDF}: 619795.5/43$

- sign  $-175.767 \pm 0.091$   $\chi^2/\text{NDF}: 342721.9/22$

# dit\_sam4\_11X12X\_slope vs Slug



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}$ : 2727.5/14

Left Out:  $0.670 \pm 0.007$   $\chi^2/\text{NDF}$ : 411.1/5

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}$ : 2666.9/17

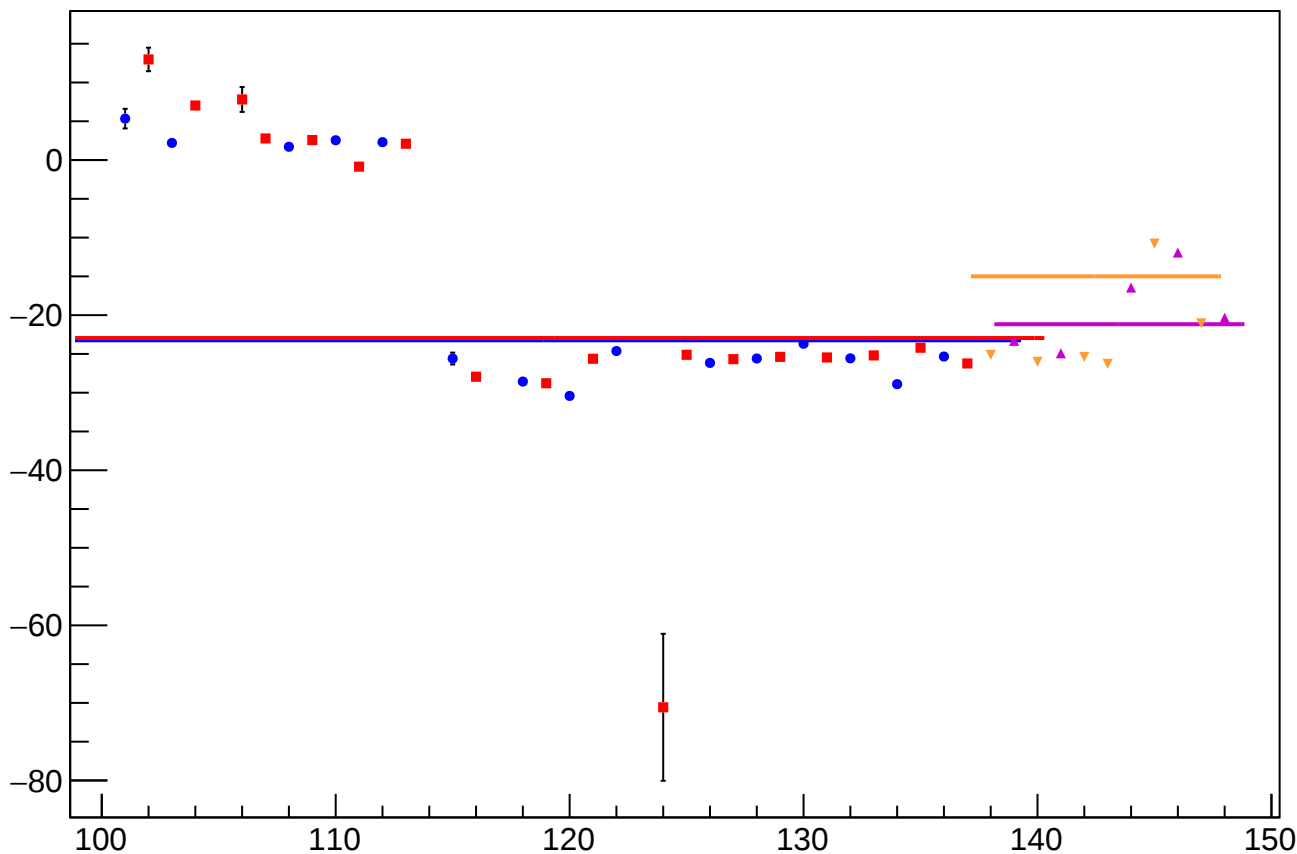
Left In:  $0.626 \pm 0.005$   $\chi^2/\text{NDF}$ : 1019.7/4

+ sign  $0.486 \pm 0.005$   $\chi^2/\text{NDF}$ : 5055.4/20

All:  $0.562 \pm 0.004$   $\chi^2/\text{NDF}$ : 9166.5/43

- sign  $0.633 \pm 0.005$   $\chi^2/\text{NDF}$ : 3713.9/22

# dit\_sam4\_4aY\_slope vs Slug



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}: 103102.8/14$

Left Out:  $-14.996 \pm 0.021$   $\chi^2/\text{NDF}: 87964.8/5$

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}: 108039.1/17$

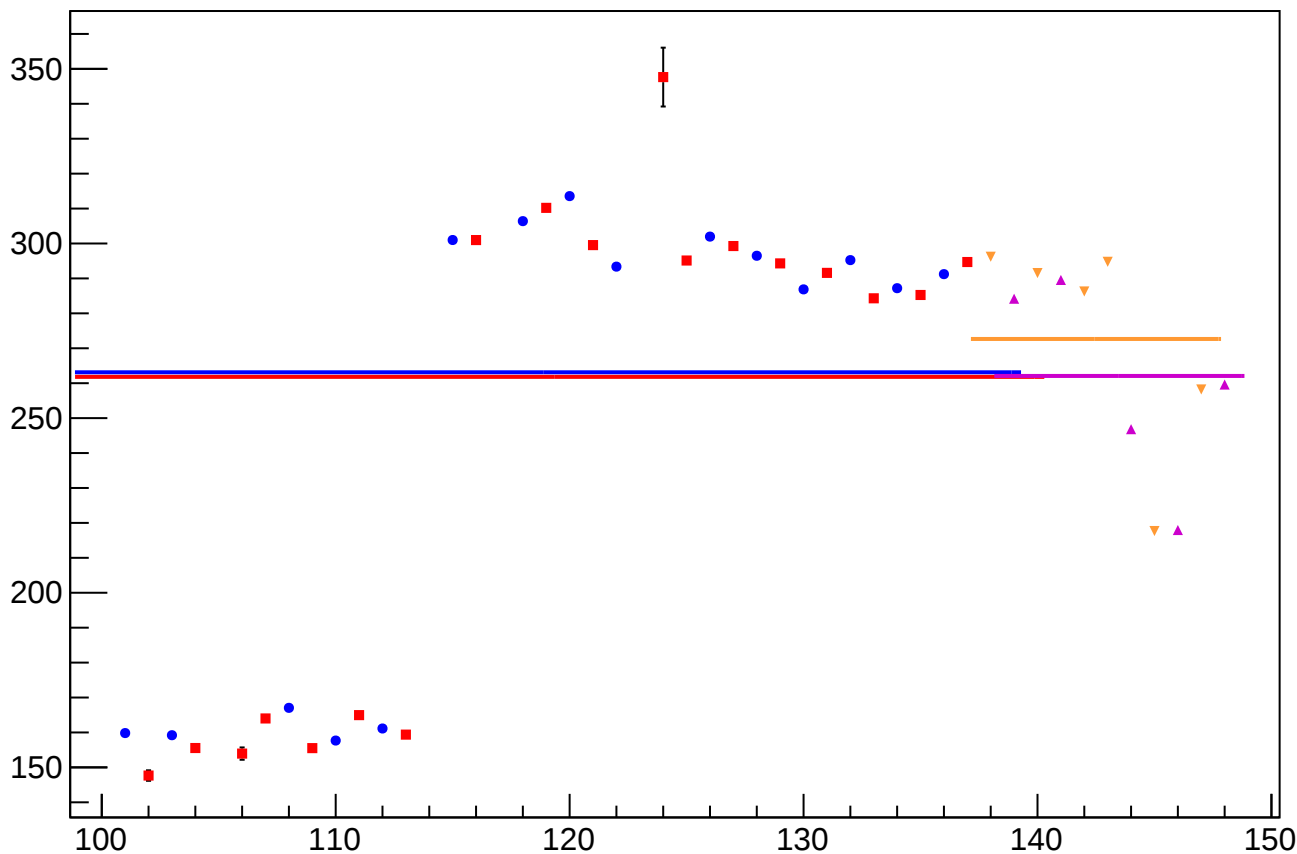
Left In:  $-21.168 \pm 0.043$   $\chi^2/\text{NDF}: 7859.2/4$

+ sign  $-18.539 \pm 0.016$   $\chi^2/\text{NDF}: 254282.1/20$

All:  $-19.987 \pm 0.013$   $\chi^2/\text{NDF}: 393287.1/43$

- sign  $-22.512 \pm 0.021$   $\chi^2/\text{NDF}: 117181.0/22$

# dit\_sam4\_4eY\_slope vs Slug



Right In: 263.120 $\pm$ 0.069  $\chi^2$ /NDF: 692885.4/14

Left Out: 272.664 $\pm$ 0.073  $\chi^2$ /NDF:171349.5/5

Right Out: 261.814 $\pm$ 0.060  $\chi^2$ /NDF: 1006189.6/17

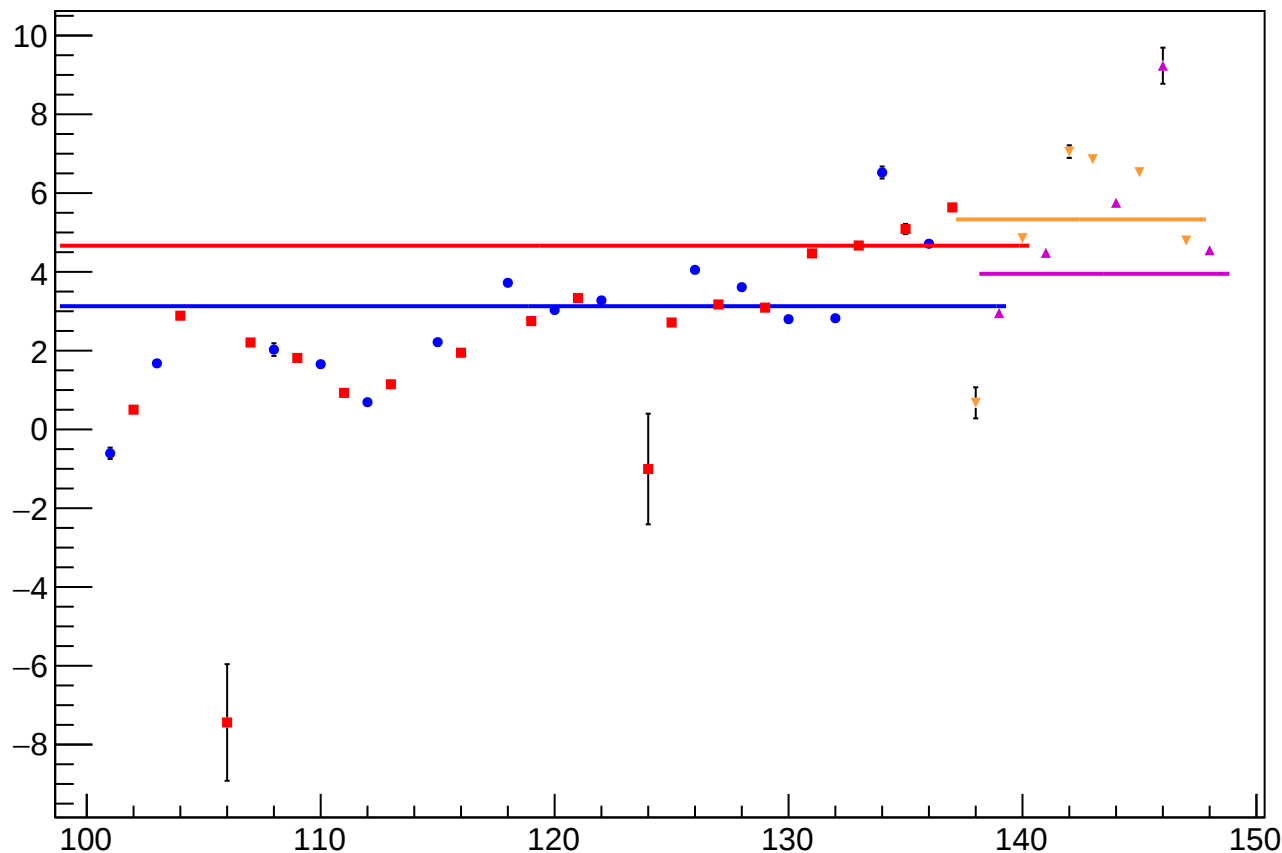
Left In: 262.077 $\pm$ 0.085  $\chi^2$ /NDF:34697.7/4

+ sign 267.657 $\pm$ 0.050  $\chi^2$ /NDF: 873310.3/20

All: 264.730 $\pm$ 0.035  $\chi^2$ /NDF: 1920933.7/43

- sign 261.903 $\pm$ 0.049  $\chi^2$ /NDF: 1040893.7/22

# dit\_sam5\_4aX\_slope vs Slug



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $5.333 \pm 0.036$   $\chi^2/\text{NDF}: 760.6/5$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

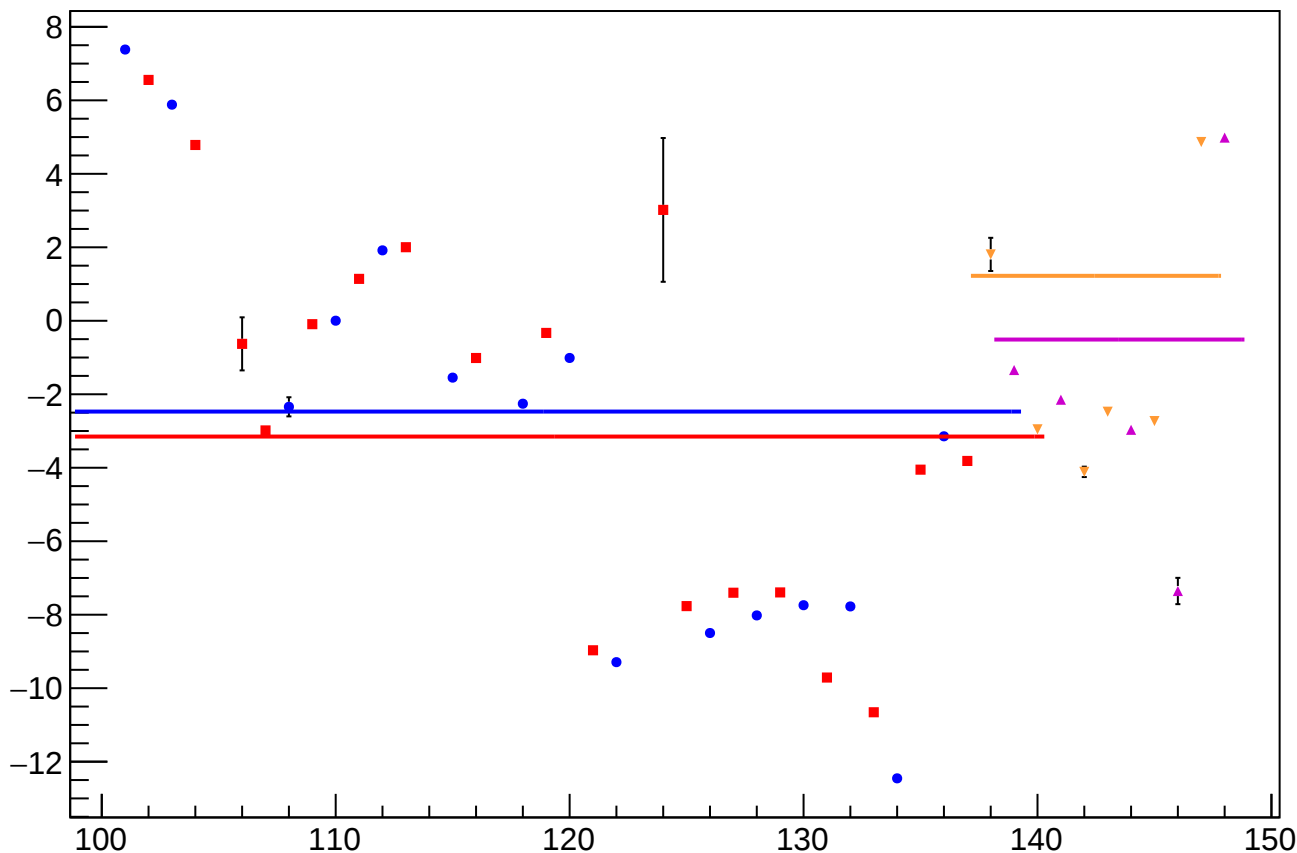
Left In:  $3.951 \pm 0.026$   $\chi^2/\text{NDF}: 1533.6/4$

+ sign  $3.488 \pm 0.014$   $\chi^2/\text{NDF}: 9621.1/20$

All:  $4.448 \pm 0.006$   $\chi^2/\text{NDF}: 83983.0/43$

- sign  $4.624 \pm 0.006$   $\chi^2/\text{NDF}: 69114.0/22$

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $1.224 \pm 0.029$   $\chi^2/\text{NDF}: 18119.2/5$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

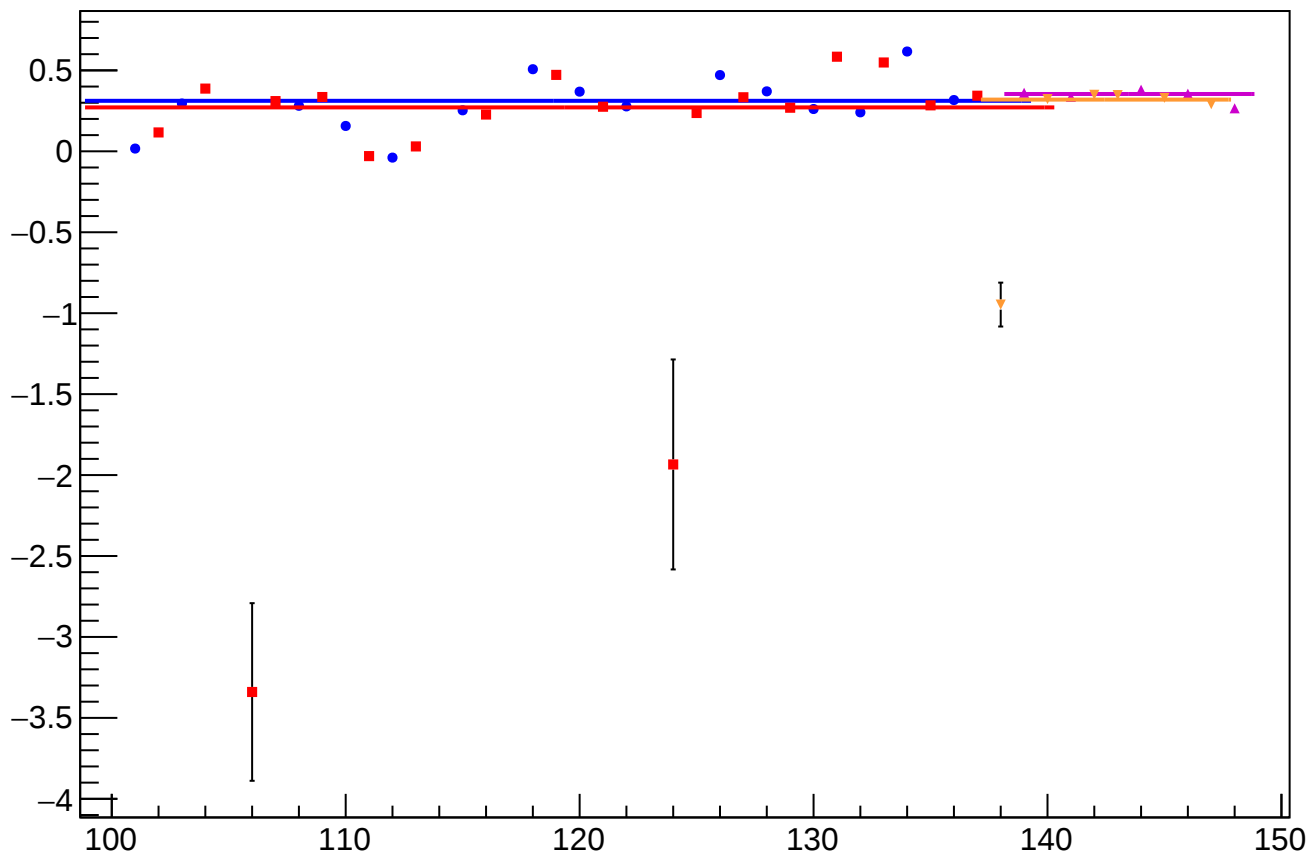
Left In:  $-0.511 \pm 0.025$   $\chi^2/\text{NDF}: 13794.9/4$

+ sign  $-1.753 \pm 0.013$   $\chi^2/\text{NDF}: 274023.4/20$

All:  $-2.656 \pm 0.006$   $\chi^2/\text{NDF}: 551885.2/43$

- sign  $-2.943 \pm 0.007$   $\chi^2/\text{NDF}: 271160.5/22$

# dit\_sam5\_11X12X\_slope vs Slug



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}: 1319.2/14$

Left Out:  $0.319 \pm 0.001$   $\chi^2/\text{NDF}: 512.6/5$

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}: 6144.7/17$

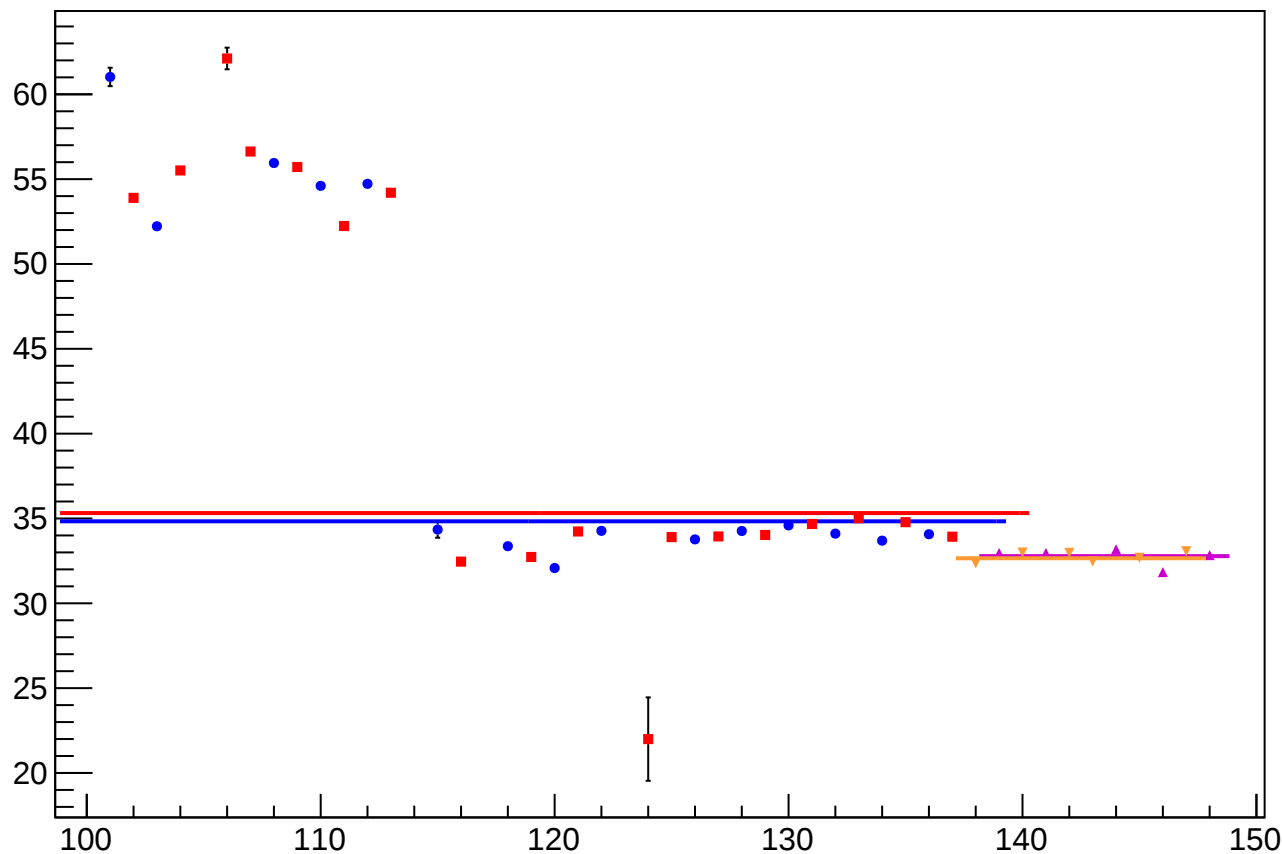
Left In:  $0.354 \pm 0.001$   $\chi^2/\text{NDF}: 1211.6/4$

+ sign  $0.316 \pm 0.001$   $\chi^2/\text{NDF}: 1850.0/20$

All:  $0.322 \pm 0.001$   $\chi^2/\text{NDF}: 10455.9/43$

- sign  $0.332 \pm 0.001$   $\chi^2/\text{NDF}: 8480.8/22$

# dit\_sam5\_4aY\_slope vs Slug



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 32.655 $\pm$ 0.011  $\chi^2$ /NDF: 468.4/5

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

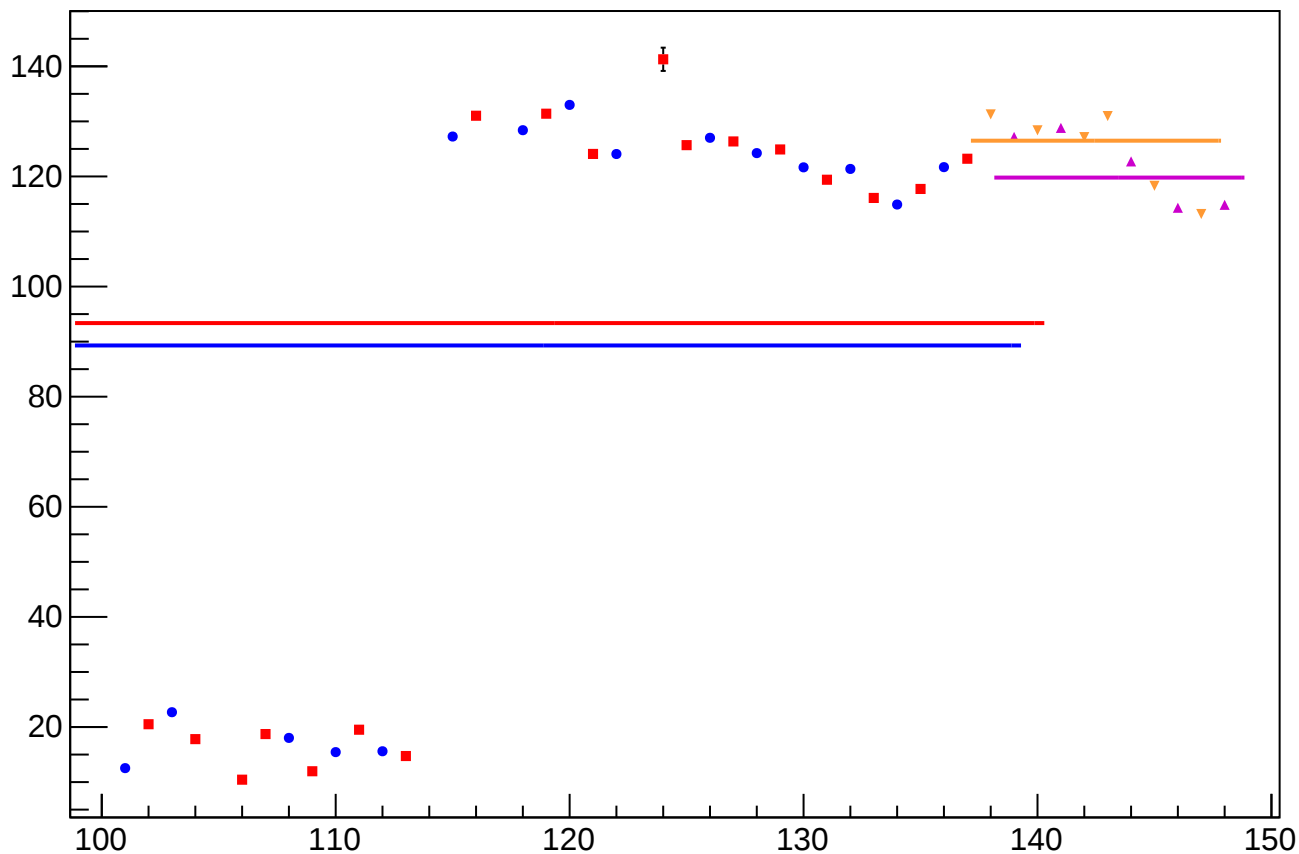
Left In: 32.780 $\pm$ 0.013  $\chi^2$ /NDF: 1415.2/4

+ sign 34.047 $\pm$ 0.007  $\chi^2$ /NDF: 269012.0/20

All: 34.194 $\pm$ 0.005  $\chi^2$ /NDF: 556841.1/43

- sign 34.388 $\pm$ 0.008  $\chi^2$ /NDF: 286780.0/22

# dit\_sam5\_4eY\_slope vs Slug



Right In: 89.302+/-0.027  $\chi^2/\text{NDF}$ : 3034485.1/14

Left Out: 126.495+/-0.034  $\chi^2/\text{NDF}$ :29387.3/5

Right Out: 93.367+/-0.030  $\chi^2/\text{NDF}$ : 2852493.6/17

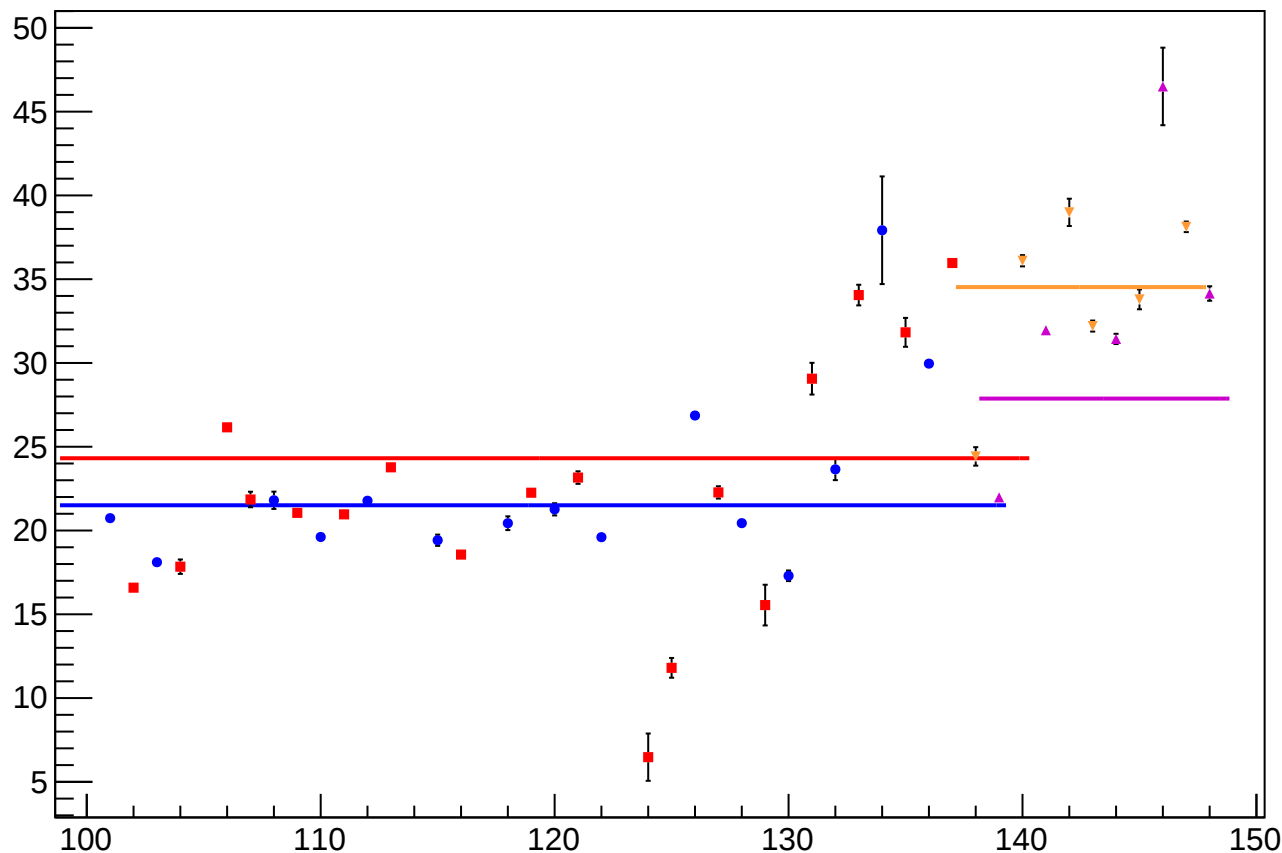
Left In: 119.793+/-0.039  $\chi^2/\text{NDF}$ :25441.2/4

+ sign 103.858+/-0.021  $\chi^2/\text{NDF}$ : 3782965.0/20

All: 103.559+/-0.016  $\chi^2/\text{NDF}$ : 6950912.6/43

- sign 103.191+/-0.024  $\chi^2/\text{NDF}$ : 3167512.7/22

# dit\_sam6\_4aX\_slope vs Slug



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}: 2963.0/14$

Left Out:  $34.528 \pm 0.167$   $\chi^2/\text{NDF}: 569.5/5$

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}: 14295.4/17$

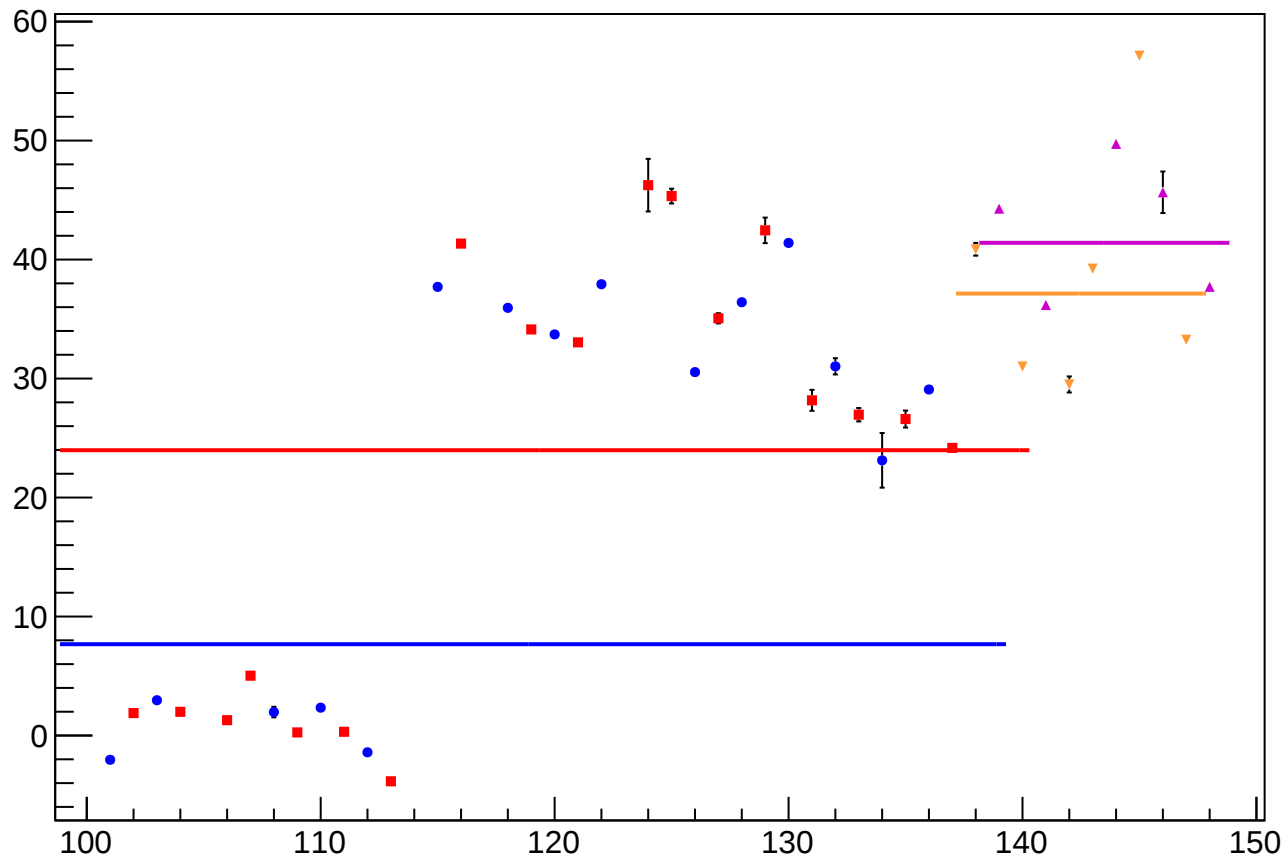
Left In:  $27.875 \pm 0.135$   $\chi^2/\text{NDF}: 1468.8/4$

+ sign  $23.560 \pm 0.066$   $\chi^2/\text{NDF}: 8642.3/20$

All:  $24.354 \pm 0.042$   $\chi^2/\text{NDF}: 25226.4/43$

- sign  $24.874 \pm 0.054$   $\chi^2/\text{NDF}: 16347.2/22$

# dit\_sam6\_4eX\_slope vs Slug



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}$ : 96442.5/14

Left Out:  $37.143 \pm 0.138$   $\chi^2/\text{NDF}$ : 3145.7/5

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}$ : 110564.0/17

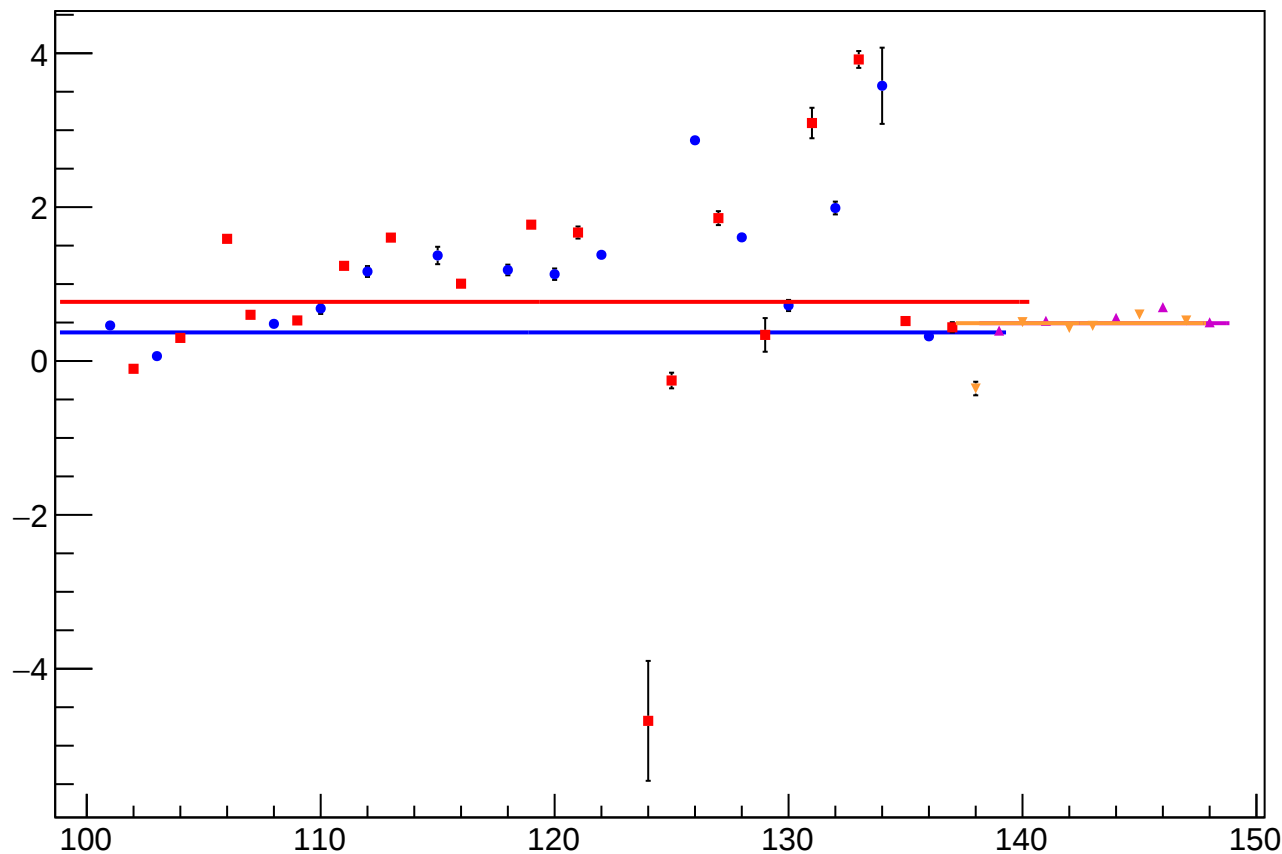
Left In:  $41.408 \pm 0.118$   $\chi^2/\text{NDF}$ : 1519.2/4

+ sign  $10.521 \pm 0.043$   $\chi^2/\text{NDF}$ : 140574.0/20

All:  $23.590 \pm 0.008$   $\chi^2/\text{NDF}$ : 370254.1/43

- sign  $24.061 \pm 0.008$   $\chi^2/\text{NDF}$ : 133951.8/22

# dit\_sam6\_11X12X\_slope vs Slug



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}: 4748.7/14$

Left Out:  $0.492 \pm 0.002$   $\chi^2/\text{NDF}: 322.5/5$

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}: 4137.5/17$

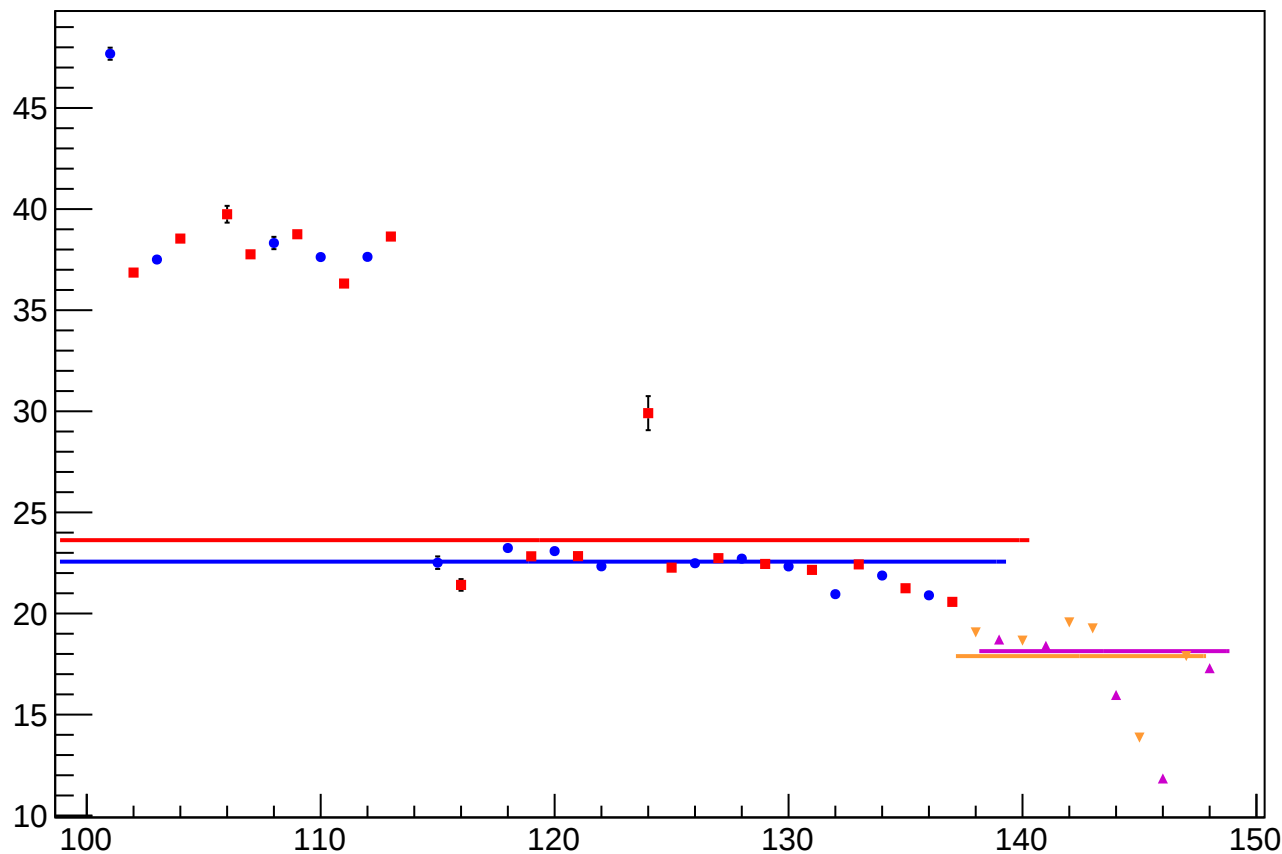
Left In:  $0.491 \pm 0.003$   $\chi^2/\text{NDF}: 606.7/4$

+ sign  $0.463 \pm 0.002$   $\chi^2/\text{NDF}: 5651.4/20$

All:  $0.490 \pm 0.002$   $\chi^2/\text{NDF}: 12170.4/43$

- sign  $0.529 \pm 0.003$   $\chi^2/\text{NDF}: 6128.3/22$

# dit\_sam6\_4aY\_slope vs Slug



Right In:  $22.565 \pm 0.010$   $\chi^2/\text{NDF}: 92859.1/14$

Left Out:  $17.892 \pm 0.011$   $\chi^2/\text{NDF}: 35377.3/5$

Right Out:  $23.627 \pm 0.011$   $\chi^2/\text{NDF}: 123194.1/17$

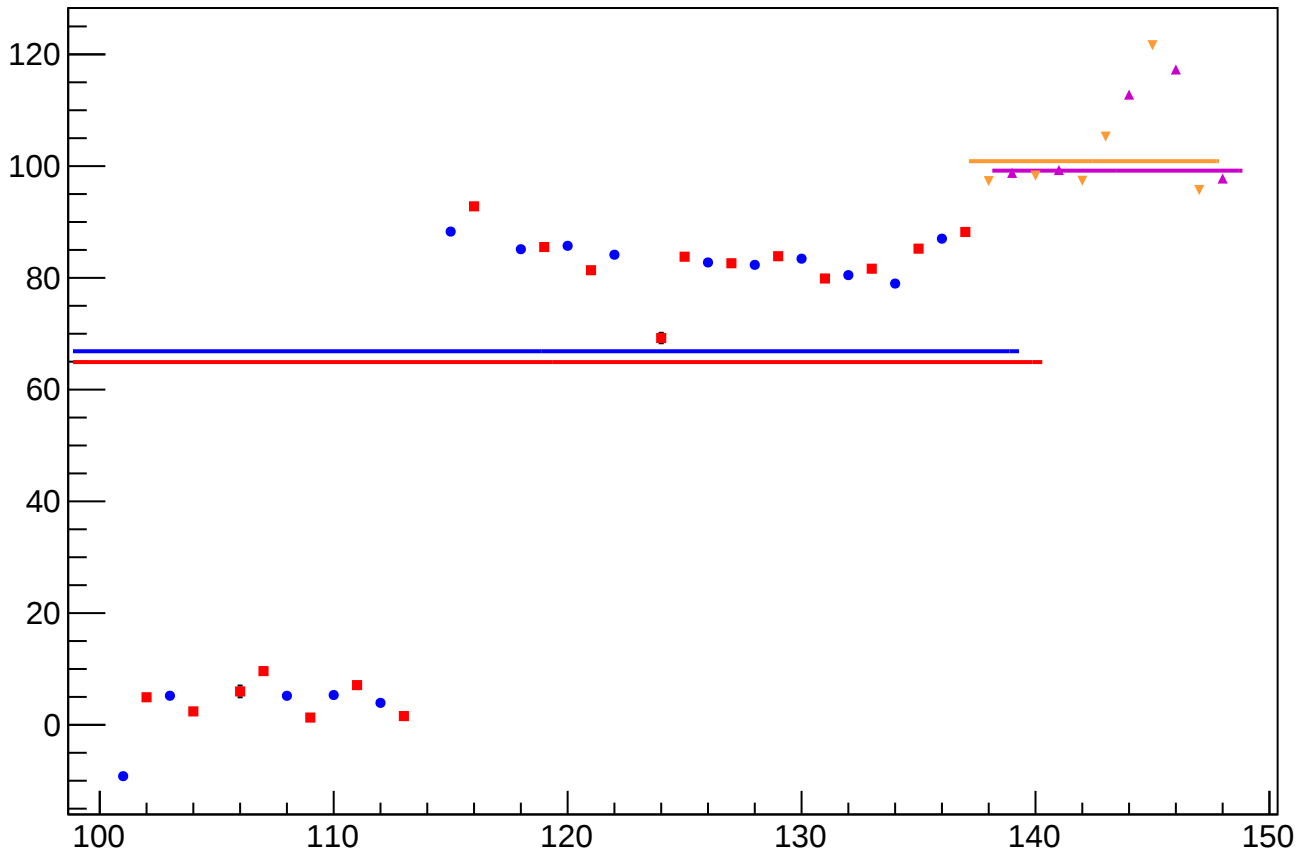
Left In:  $18.139 \pm 0.018$   $\chi^2/\text{NDF}: 4316.4/4$

+ sign  $20.470 \pm 0.008$   $\chi^2/\text{NDF}: 222810.4/20$

All:  $21.078 \pm 0.006$   $\chi^2/\text{NDF}: 436546.5/43$

- sign  $22.030 \pm 0.009$   $\chi^2/\text{NDF}: 197106.2/22$

# dit\_sam6\_4eY\_slope vs Slug



Right In: 66.866+/-0.027  $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out: 100.887+/-0.027  $\chi^2/\text{NDF}$ : 57316.4/5

Right Out: 64.929+/-0.030  $\chi^2/\text{NDF}$ : 1334580.7/17

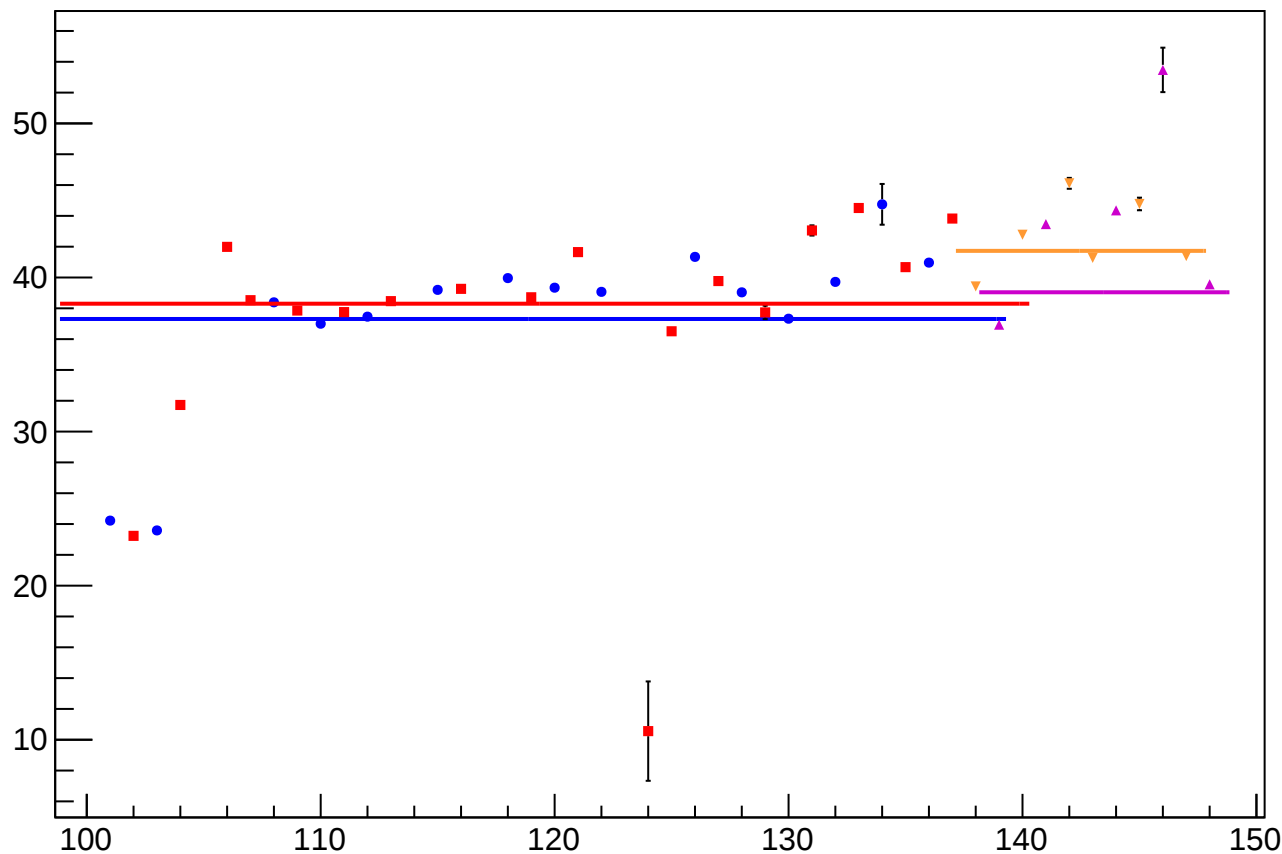
Left In: 99.190+/-0.029  $\chi^2/\text{NDF}$ : 4723.3/4

+ sign 83.772+/-0.019  $\chi^2/\text{NDF}$ : 2336953.7/20

All: 83.087+/-0.014  $\chi^2/\text{NDF}$ : 4351532.0/43

- sign 82.275+/-0.021  $\chi^2/\text{NDF}$ : 2011796.3/22

# dit\_sam7\_4aX\_slope vs Slug



Right In: 37.308 $\pm$ 0.023  $\chi^2$ /NDF: 59580.0/14

Left Out: 41.729 $\pm$ 0.067  $\chi^2$ /NDF: 376.2/5

Right Out: 38.300 $\pm$ 0.021  $\chi^2$ /NDF: 18840.0/17

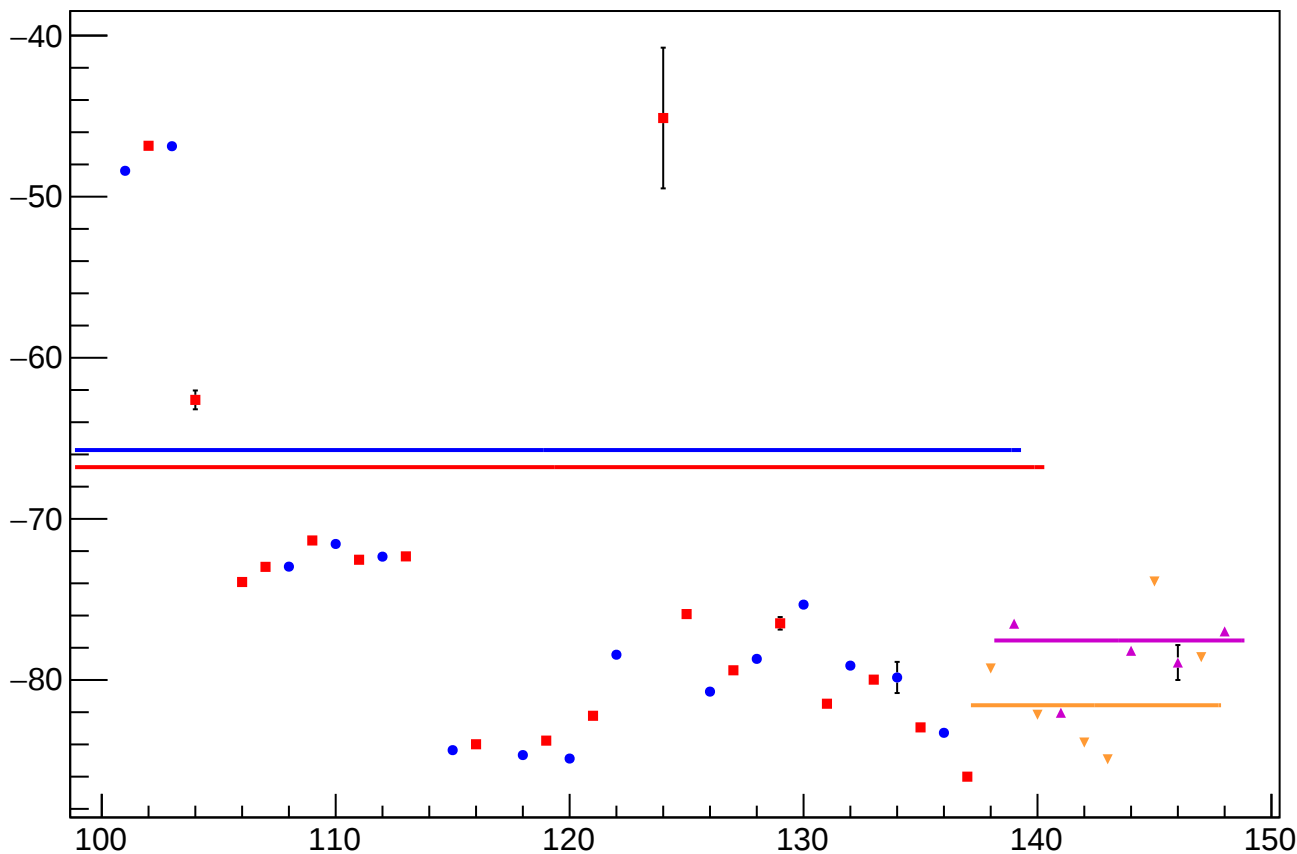
Left In: 39.041 $\pm$ 0.054  $\chi^2$ /NDF: 3016.0/4

+ sign 37.778 $\pm$ 0.022  $\chi^2$ /NDF: 63861.9/20

All: 38.125 $\pm$ 0.014  $\chi^2$ /NDF: 86330.8/43

- sign 38.393 $\pm$ 0.019  $\chi^2$ /NDF: 22020.8/22

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-81.568 \pm 0.056$   $\chi^2/\text{NDF}: 3003.8/5$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

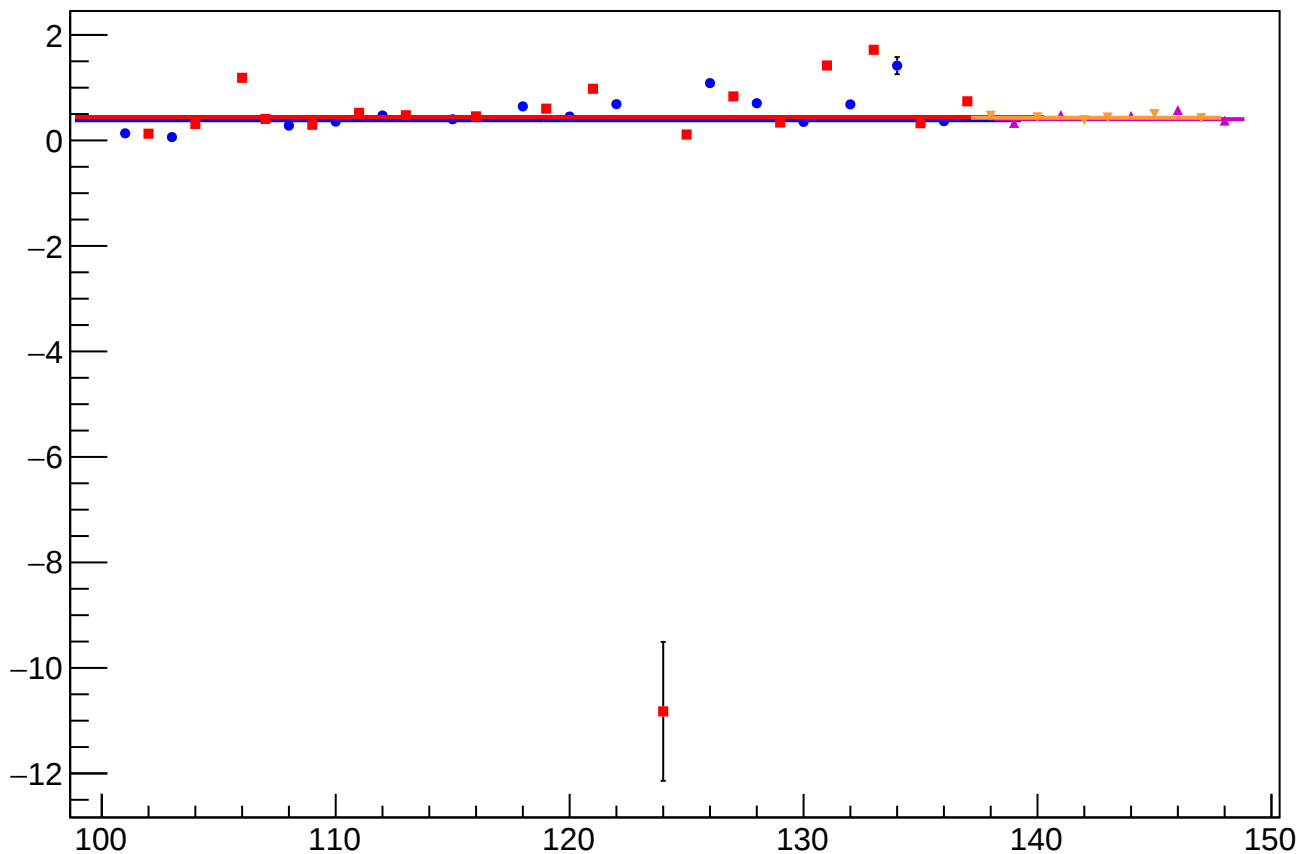
Left In:  $-77.547 \pm 0.043$   $\chi^2/\text{NDF}: 2069.9/4$

+ sign  $-67.041 \pm 0.016$   $\chi^2/\text{NDF}: 979354.0/20$

All:  $-67.604 \pm 0.011$   $\chi^2/\text{NDF}: 1848643.4/43$

- sign  $-68.080 \pm 0.015$   $\chi^2/\text{NDF}: 867044.1/22$

# dit\_sam7\_11X12X\_slope vs Slug



Right In:  $0.383 \pm 0.002$   $\chi^2/\text{NDF}$ : 8173.1/14

Left Out:  $0.430 \pm 0.001$   $\chi^2/\text{NDF}$ : 114.1/5

Right Out:  $0.444 \pm 0.004$   $\chi^2/\text{NDF}$ : 2786.2/17

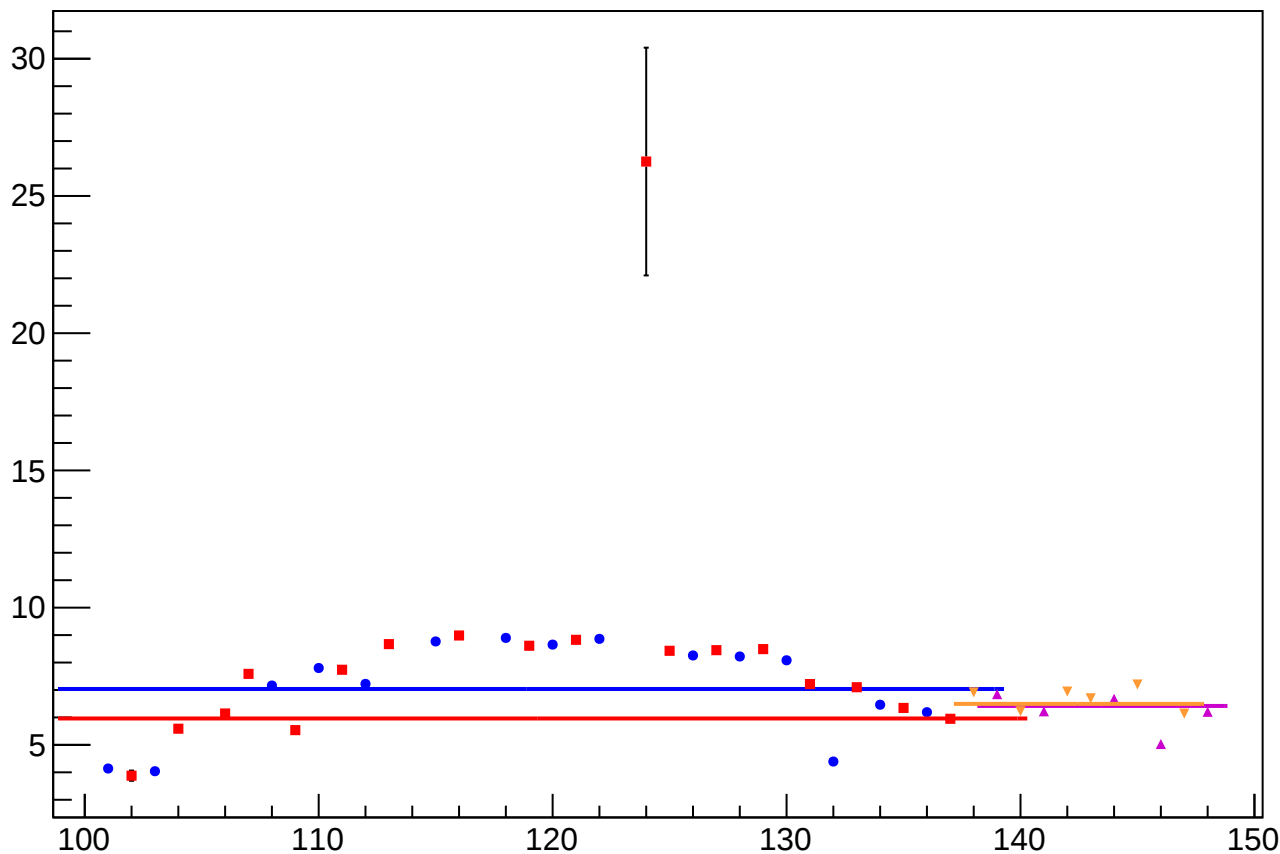
Left In:  $0.403 \pm 0.002$   $\chi^2/\text{NDF}$ : 2051.0/4

+ sign  $0.415 \pm 0.001$   $\chi^2/\text{NDF}$ : 8719.9/20

All:  $0.413 \pm 0.001$   $\chi^2/\text{NDF}$ : 13675.9/43

- sign  $0.409 \pm 0.001$   $\chi^2/\text{NDF}$ : 4945.6/22

# dit\_sam7\_4aY\_slope vs Slug



Right In: 7.036 $\pm$ 0.005     $\chi^2$ /NDF: 69905.1/14

Left Out: 6.494 $\pm$ 0.004     $\chi^2$ /NDF:8520.1/5

Right Out: 5.962 $\pm$ 0.000     $\chi^2$ /NDF: 168372.8/17

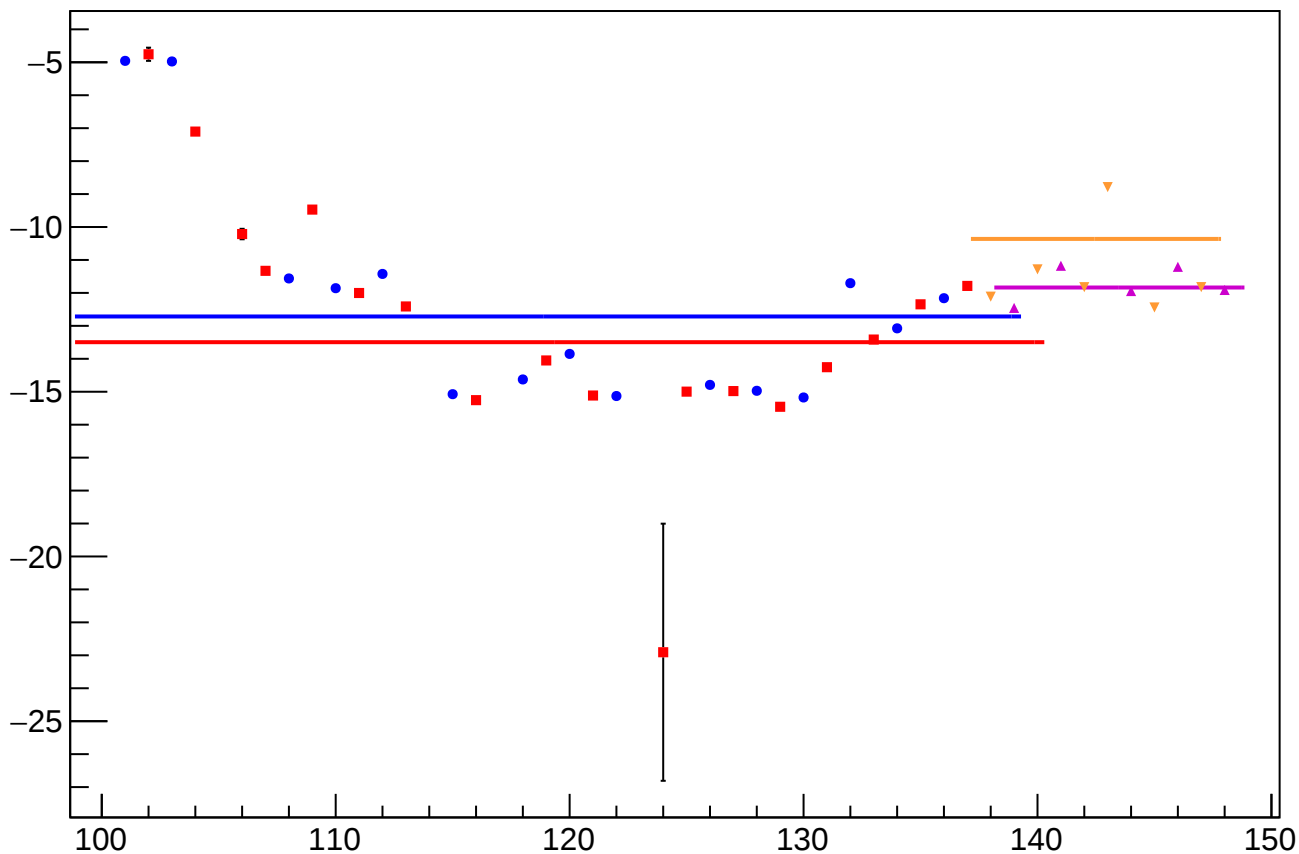
Left In: 6.418 $\pm$ 0.004     $\chi^2$ /NDF:5102.2/4

+ sign 6.708 $\pm$ 0.003     $\chi^2$ /NDF: 87130.6/20

All: 5.981 $\pm$ 0.000     $\chi^2$ /NDF: 340756.4/43

- sign 5.967 $\pm$ 0.000     $\chi^2$ /NDF: 186883.6/22

# dit\_sam7\_4eY\_slope vs Slug



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}$ : 85219.4/14

Left Out:  $-10.361 \pm 0.004$   $\chi^2/\text{NDF}$ : 125783.6/5

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}$ : 55753.8/17

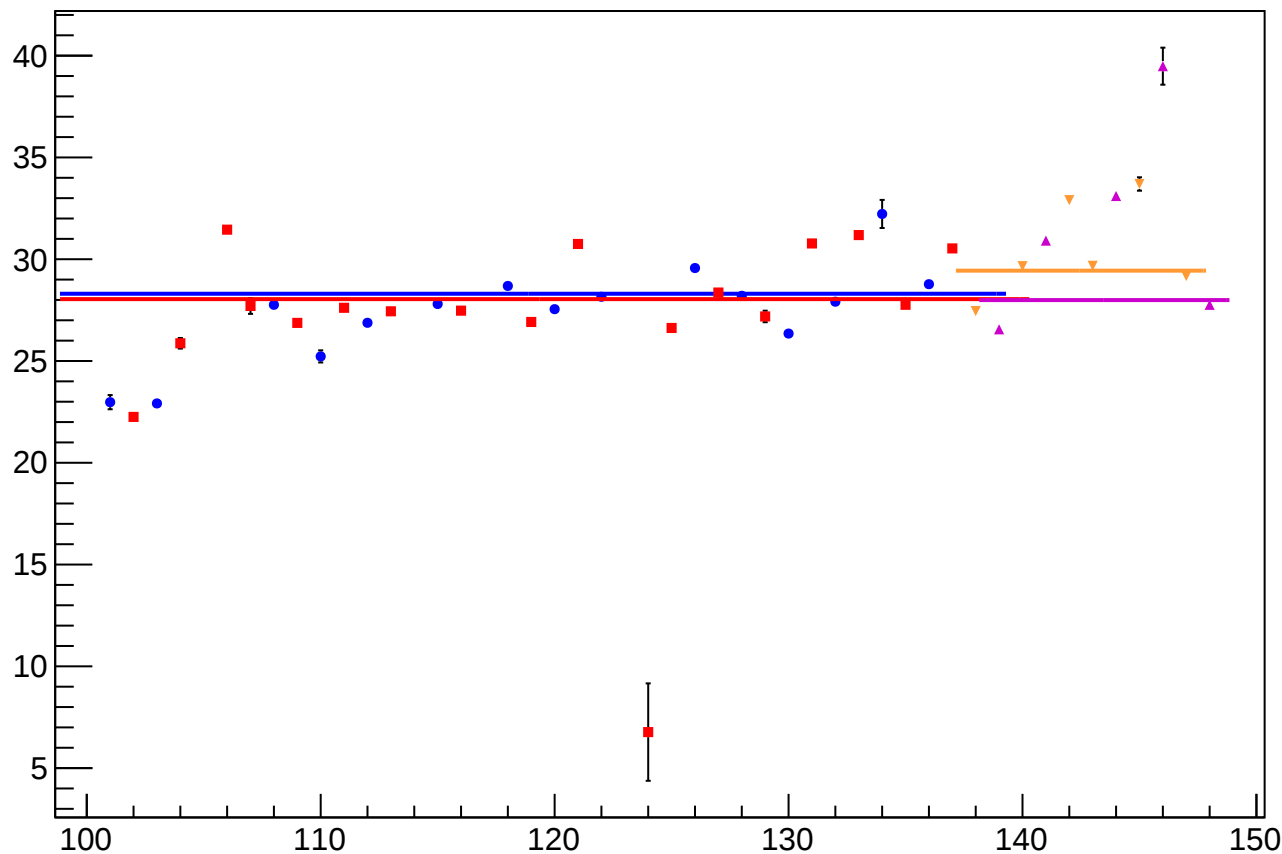
Left In:  $-11.836 \pm 0.006$   $\chi^2/\text{NDF}$ : 3703.2/4

+ sign  $-11.104 \pm 0.004$   $\chi^2/\text{NDF}$ : 304252.6/20

All:  $-11.778 \pm 0.003$   $\chi^2/\text{NDF}$ : 486614.1/43

- sign  $-12.680 \pm 0.004$   $\chi^2/\text{NDF}$ : 99529.5/22

# dit\_sam8\_4aX\_slope vs Slug



Right In: 28.304 $\pm$ 0.023  $\chi^2$ /NDF: 3400.0/14

Left Out: 29.439 $\pm$ 0.044  $\chi^2$ /NDF: 768.9/5

Right Out: 28.040 $\pm$ 0.030  $\chi^2$ /NDF: 2561.5/17

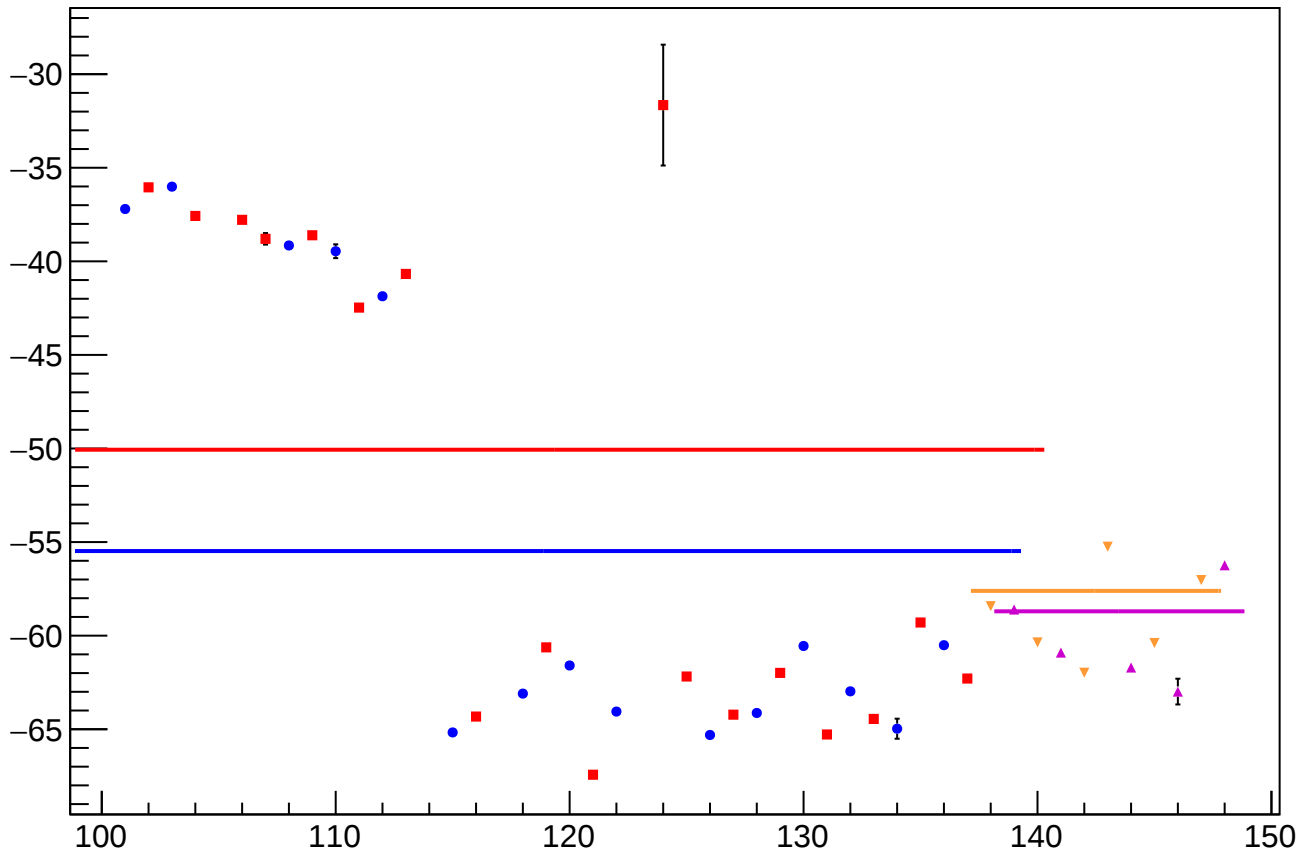
Left In: 27.993 $\pm$ 0.039  $\chi^2$ /NDF: 2846.4/4

+ sign 28.551 $\pm$ 0.020  $\chi^2$ /NDF: 4694.6/20

All: 28.329 $\pm$ 0.016  $\chi^2$ /NDF: 10384.4/43

- sign 28.022 $\pm$ 0.024  $\chi^2$ /NDF: 5408.7/22

# dit\_sam8\_4eX\_slope vs Slug



Right In: -55.480 $\pm$ 0.017  $\chi^2$ /NDF: 595140.3/14

Left Out: -57.608 $\pm$ 0.038  $\chi^2$ /NDF:3132.3/5

Right Out: -50.065 $\pm$ 0.023  $\chi^2$ /NDF: 340098.3/17

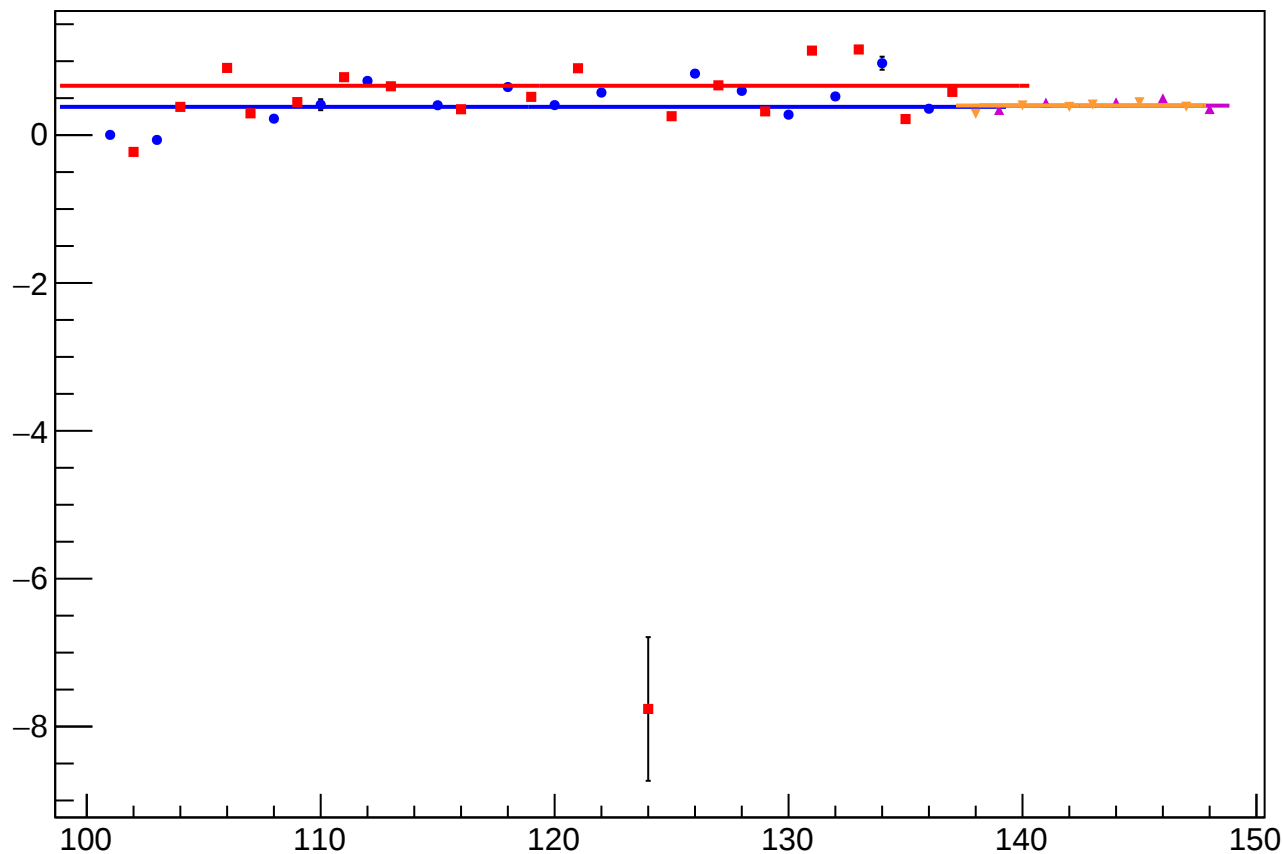
Left In: -58.700 $\pm$ 0.041  $\chi^2$ /NDF:2746.5/4

+ sign -55.814 $\pm$ 0.015  $\chi^2$ /NDF: 600862.2/20

All: -54.476 $\pm$ 0.012  $\chi^2$ /NDF: 998229.7/43

- sign -52.119 $\pm$ 0.020  $\chi^2$ /NDF: 375999.7/22

# dit\_sam8\_11X12X\_slope vs Slug



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}$ : 4595.8/14

Left Out:  $0.401 \pm 0.001$   $\chi^2/\text{NDF}$ : 362.1/5

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}$ : 3704.8/17

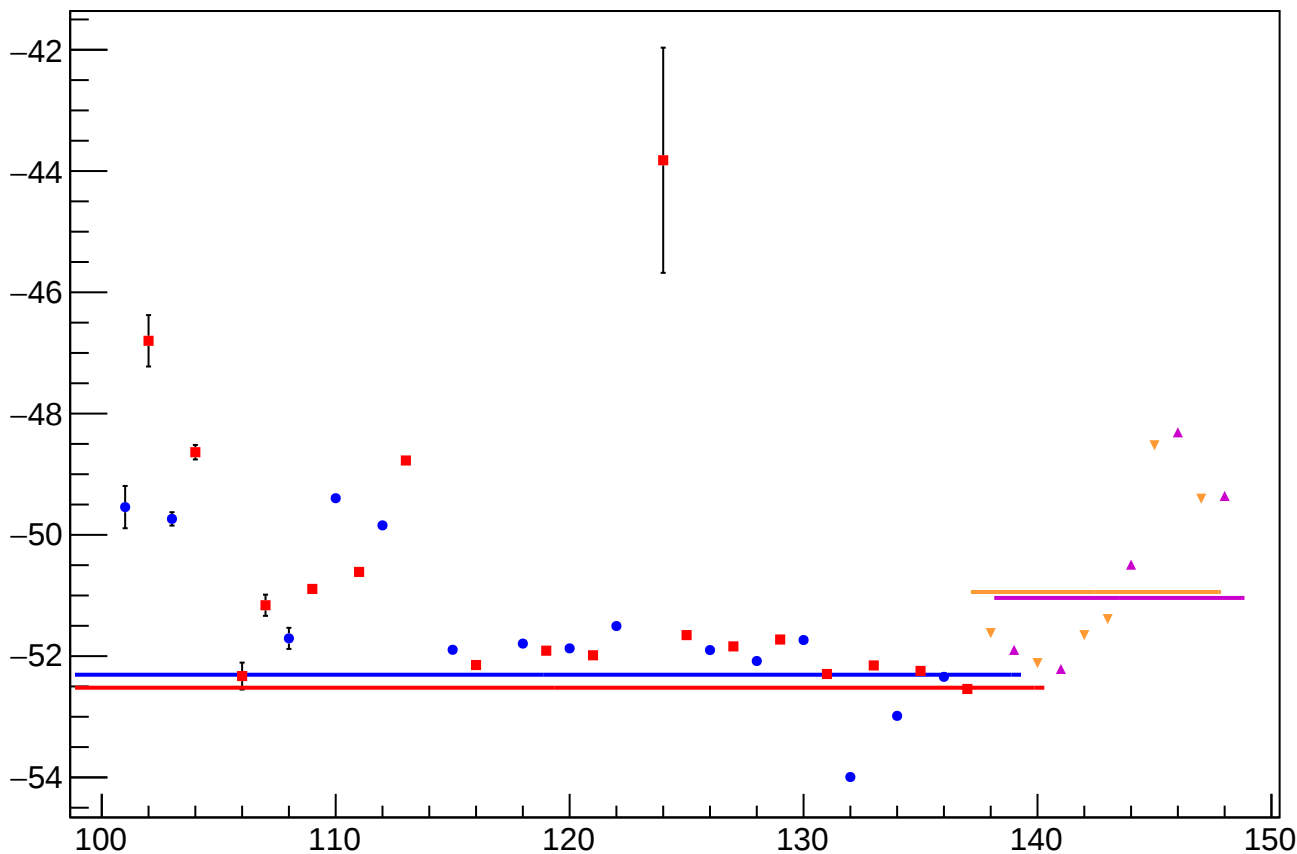
Left In:  $0.399 \pm 0.001$   $\chi^2/\text{NDF}$ : 1470.7/4

+ sign  $0.395 \pm 0.001$   $\chi^2/\text{NDF}$ : 5050.9/20

All:  $0.403 \pm 0.001$   $\chi^2/\text{NDF}$ : 13616.1/43

- sign  $0.417 \pm 0.001$   $\chi^2/\text{NDF}$ : 8355.5/22

# dit\_sam8\_4aY\_slope vs Slug



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}$ : 25427.4/14

Left Out:  $-50.942 \pm 0.004$   $\chi^2/\text{NDF}$ : 62767.4/5

Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}$ : 14961.7/17

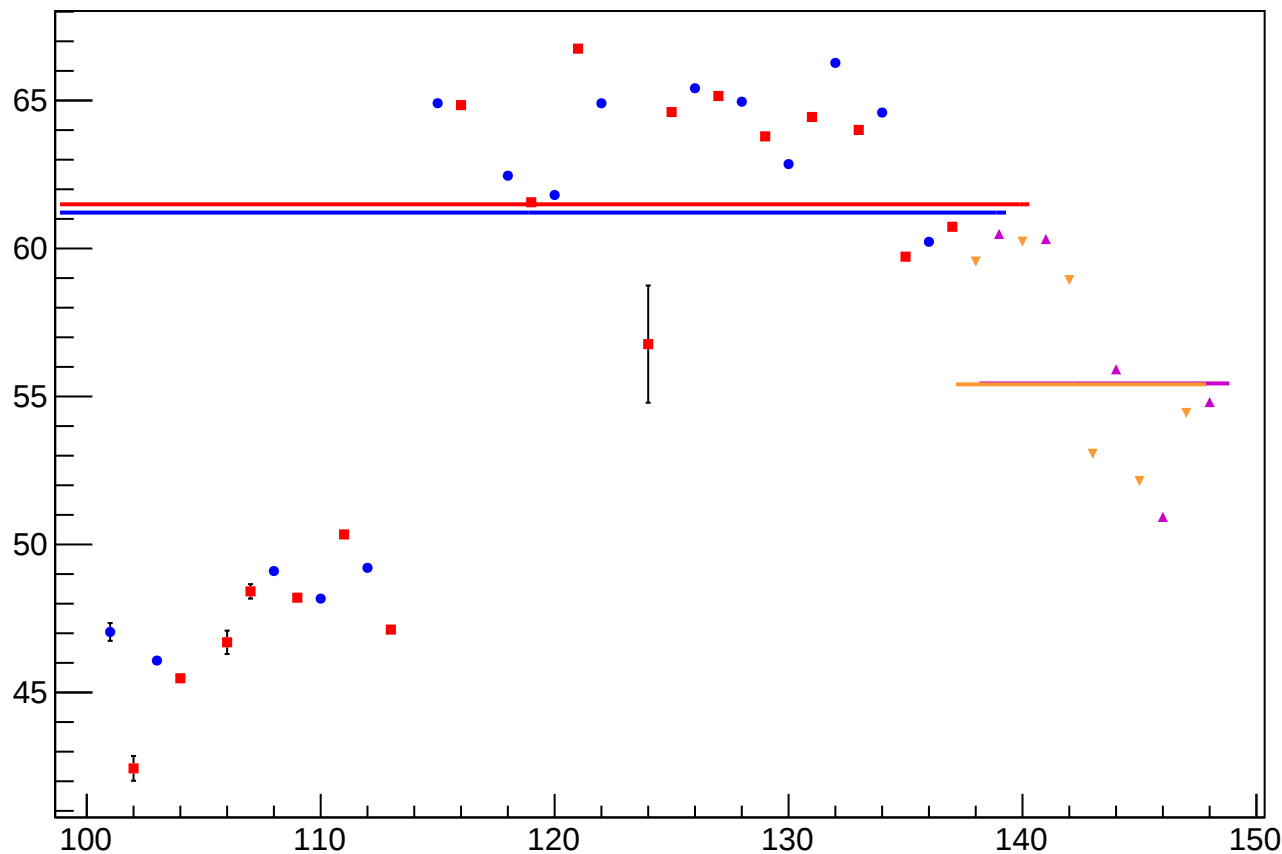
Left In:  $-51.040 \pm 0.004$   $\chi^2/\text{NDF}$ : 116098.0/4

+ sign  $-51.634 \pm 0.003$   $\chi^2/\text{NDF}$ : 149107.5/20

All:  $-52.316 \pm 0.001$   $\chi^2/\text{NDF}$ : 476547.6/43

- sign  $-52.417 \pm 0.001$   $\chi^2/\text{NDF}$ : 257676.1/22

# dit\_sam8\_4eY\_slope vs Slug



Right In:  $61.213 \pm 0.010$   $\chi^2/\text{NDF}$ : 156624.5/14

Left Out:  $55.409 \pm 0.007$   $\chi^2/\text{NDF}$ : 188077.8/5

Right Out:  $61.493 \pm 0.007$   $\chi^2/\text{NDF}$ : 243479.8/17

Left In:  $55.441 \pm 0.008$   $\chi^2/\text{NDF}$ : 49023.4/4

+ sign  $57.391 \pm 0.006$   $\chi^2/\text{NDF}$ : 569754.2/20

All:  $58.358 \pm 0.004$   $\chi^2/\text{NDF}$ : 1226796.0/43

- sign  $59.152 \pm 0.005$   $\chi^2/\text{NDF}$ : 606473.7/22

# 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usr\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil1\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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\_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

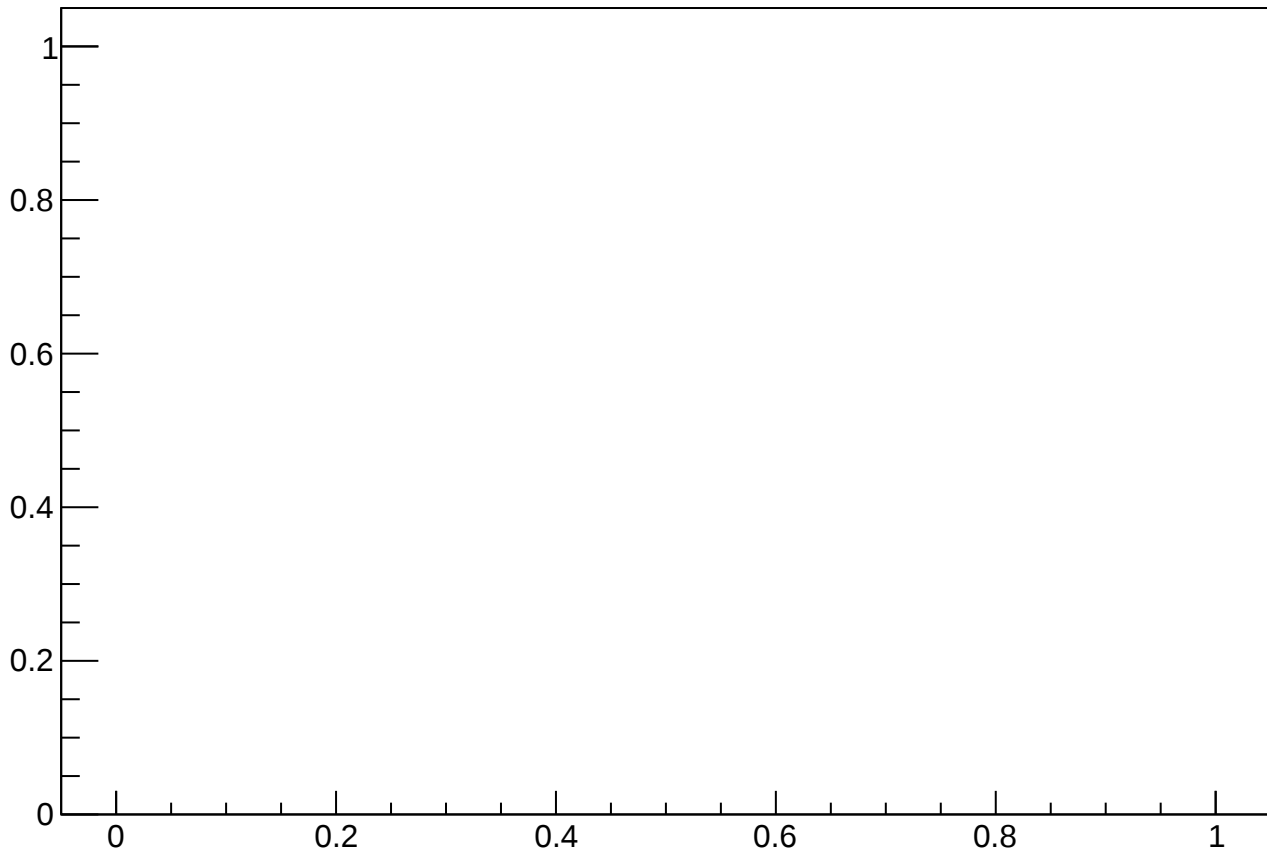
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil1\_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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil1\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam8\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil3\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

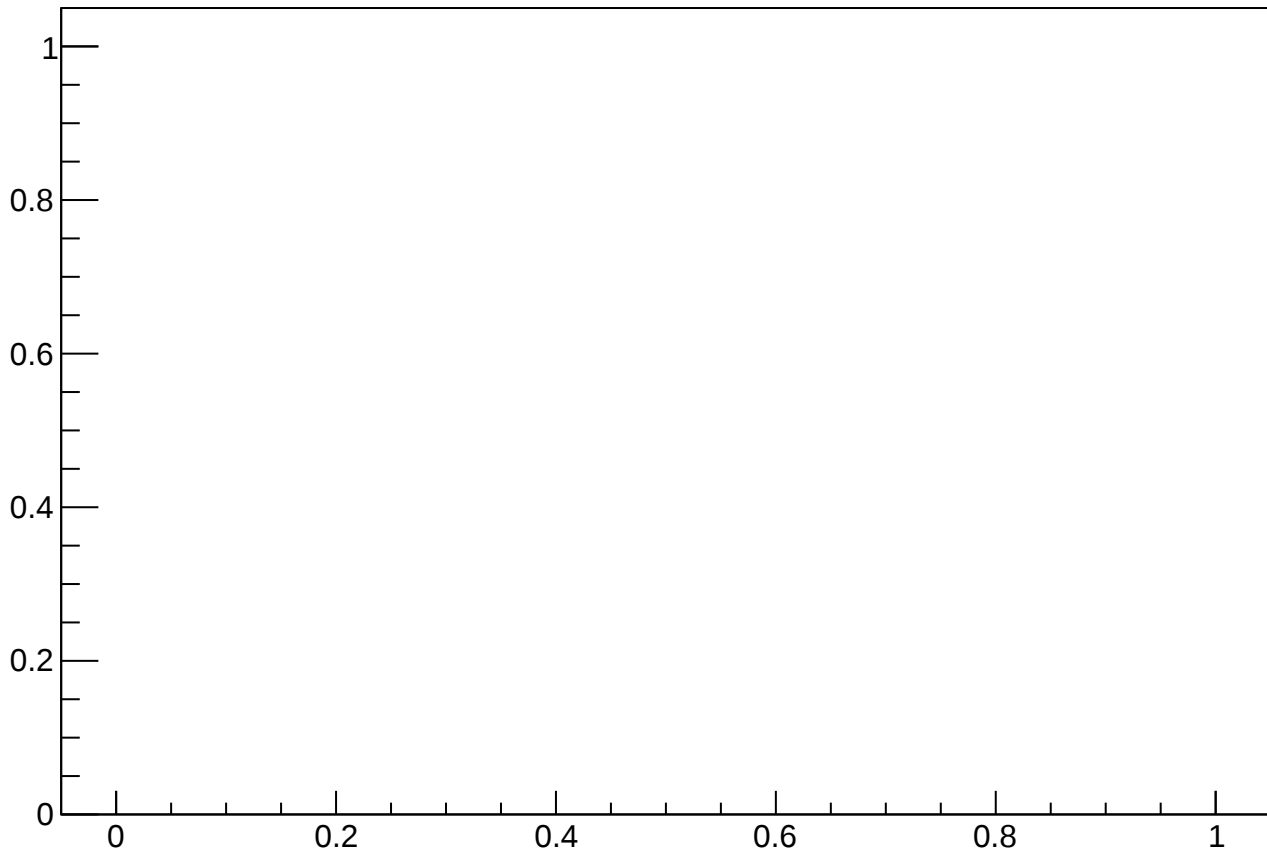
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

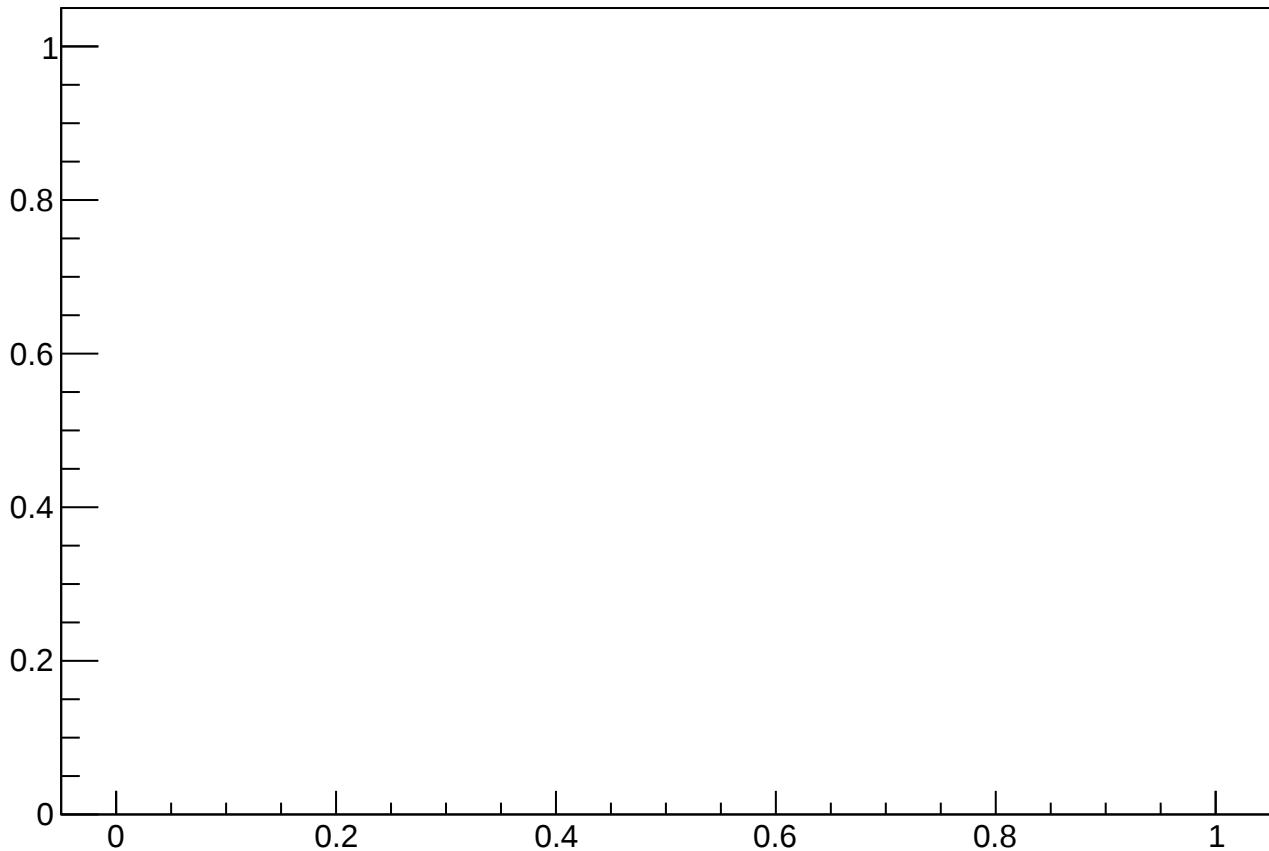
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

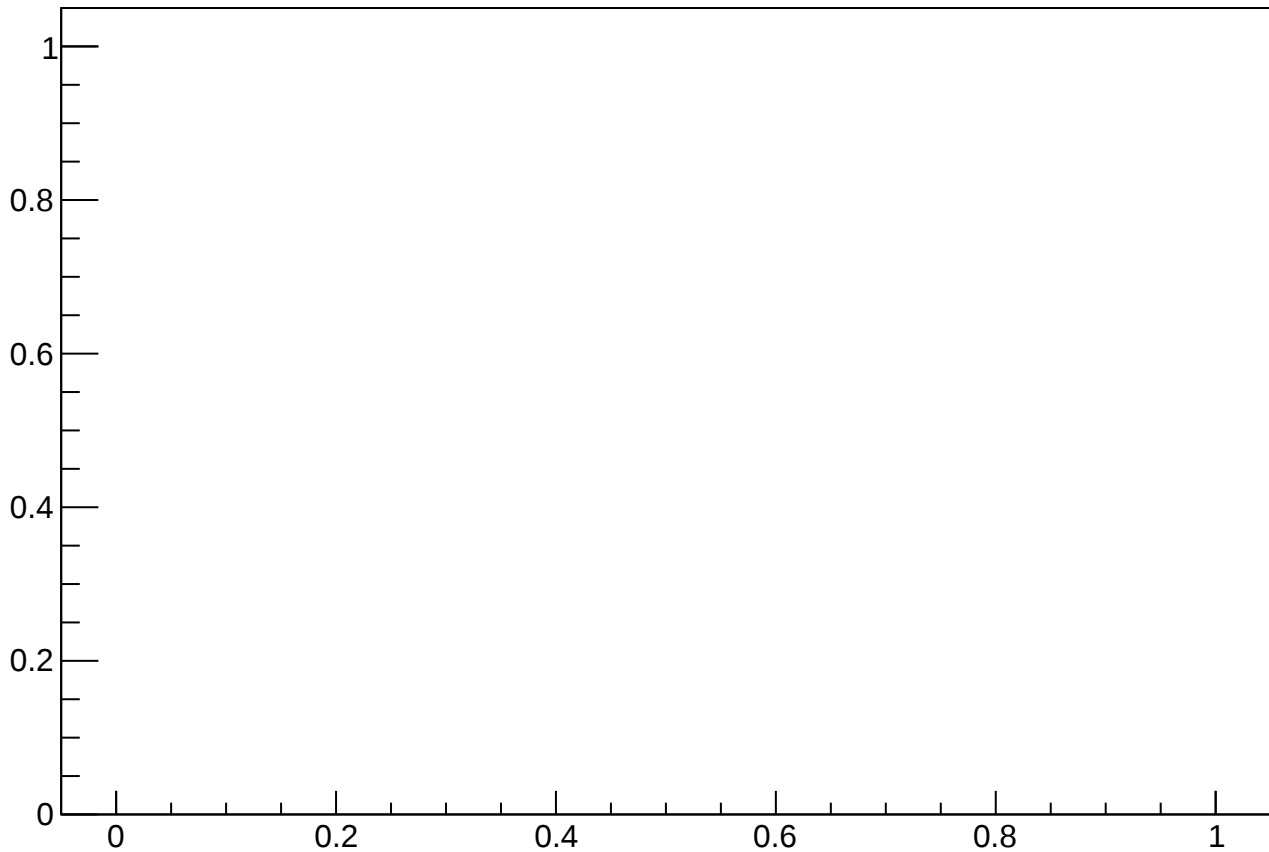
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

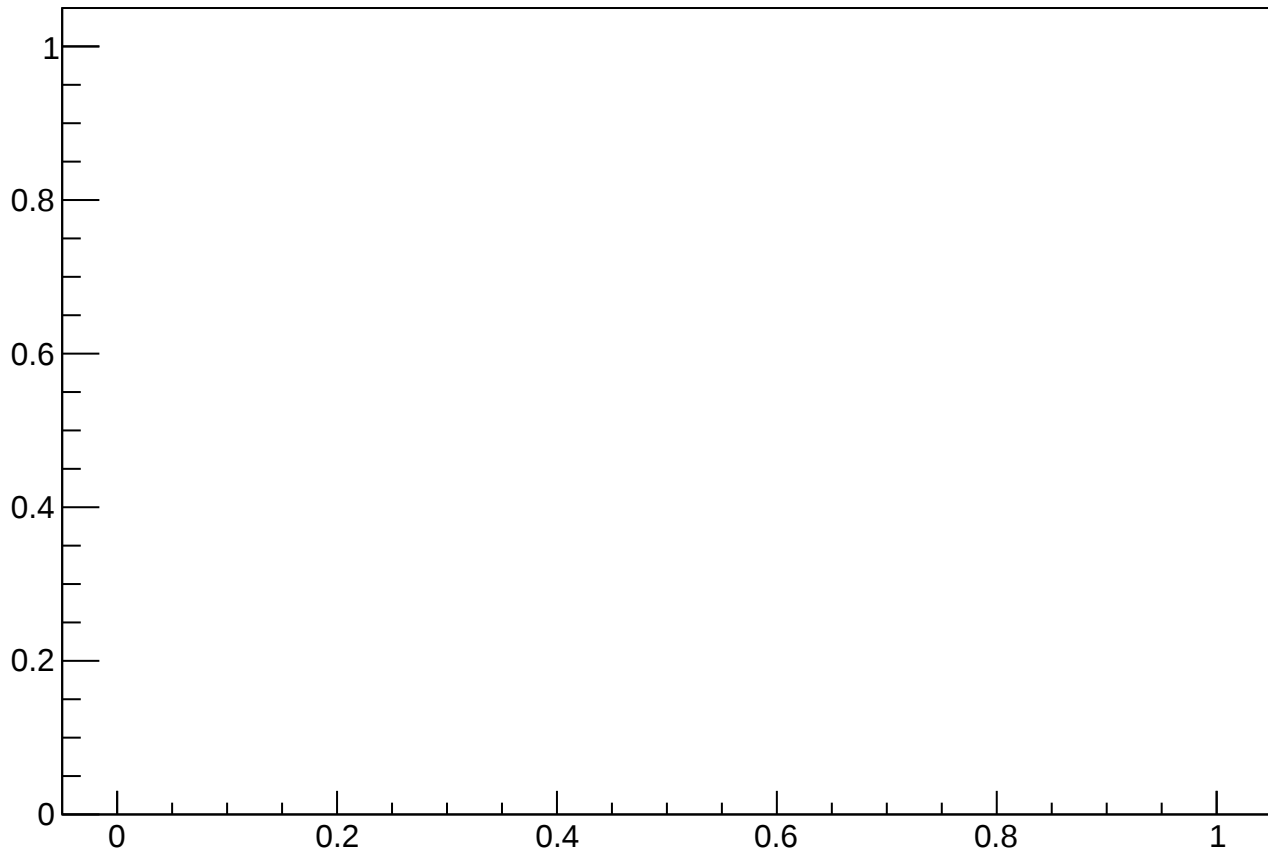
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil3\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam4\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil3\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usr\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil7\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

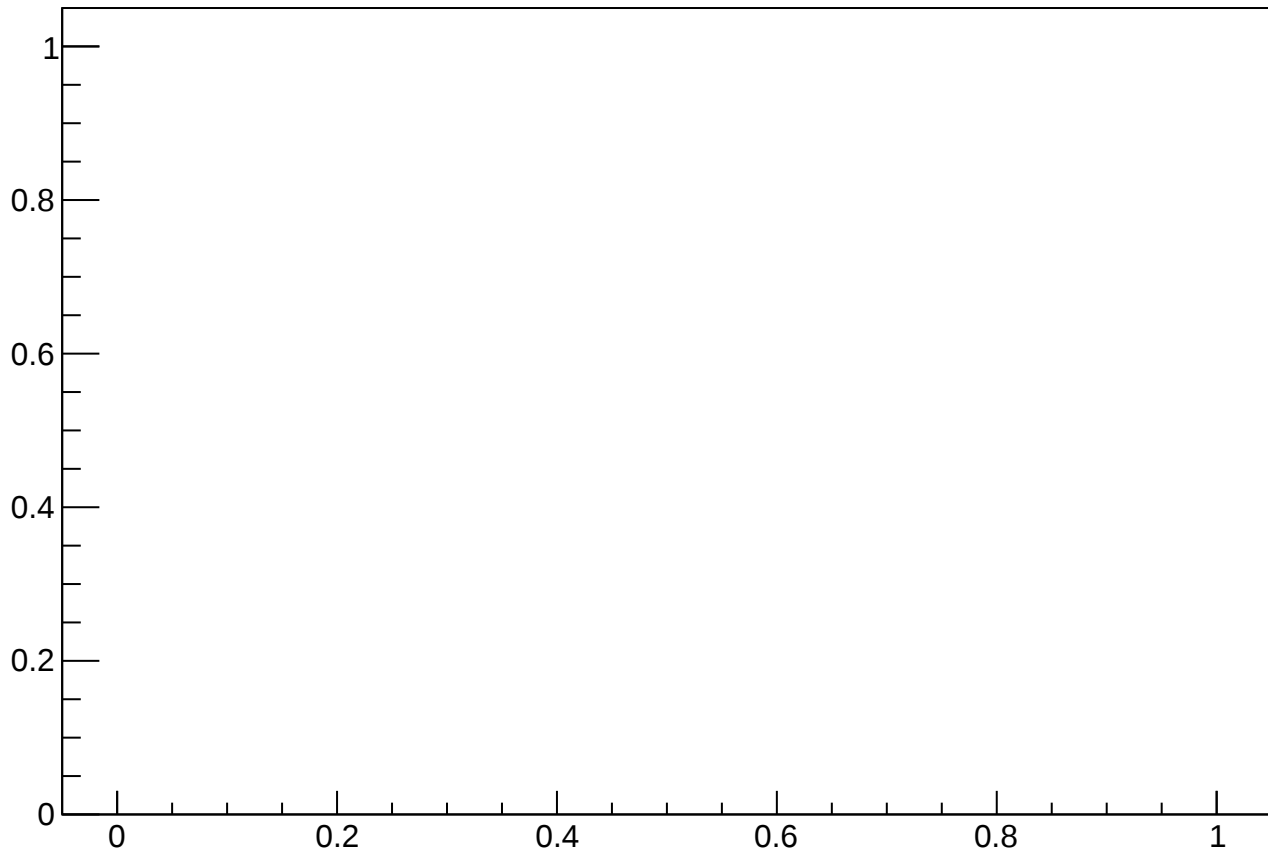
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usl\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

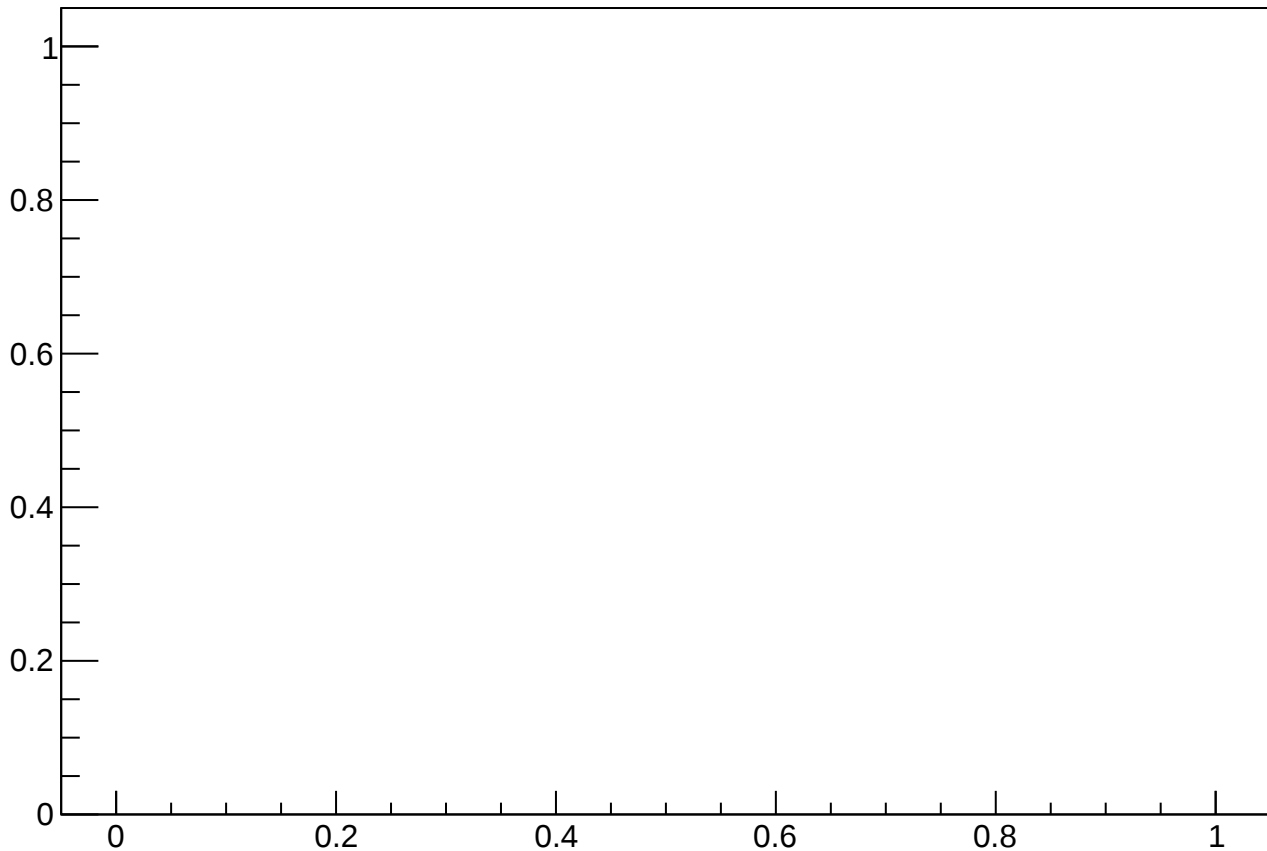
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

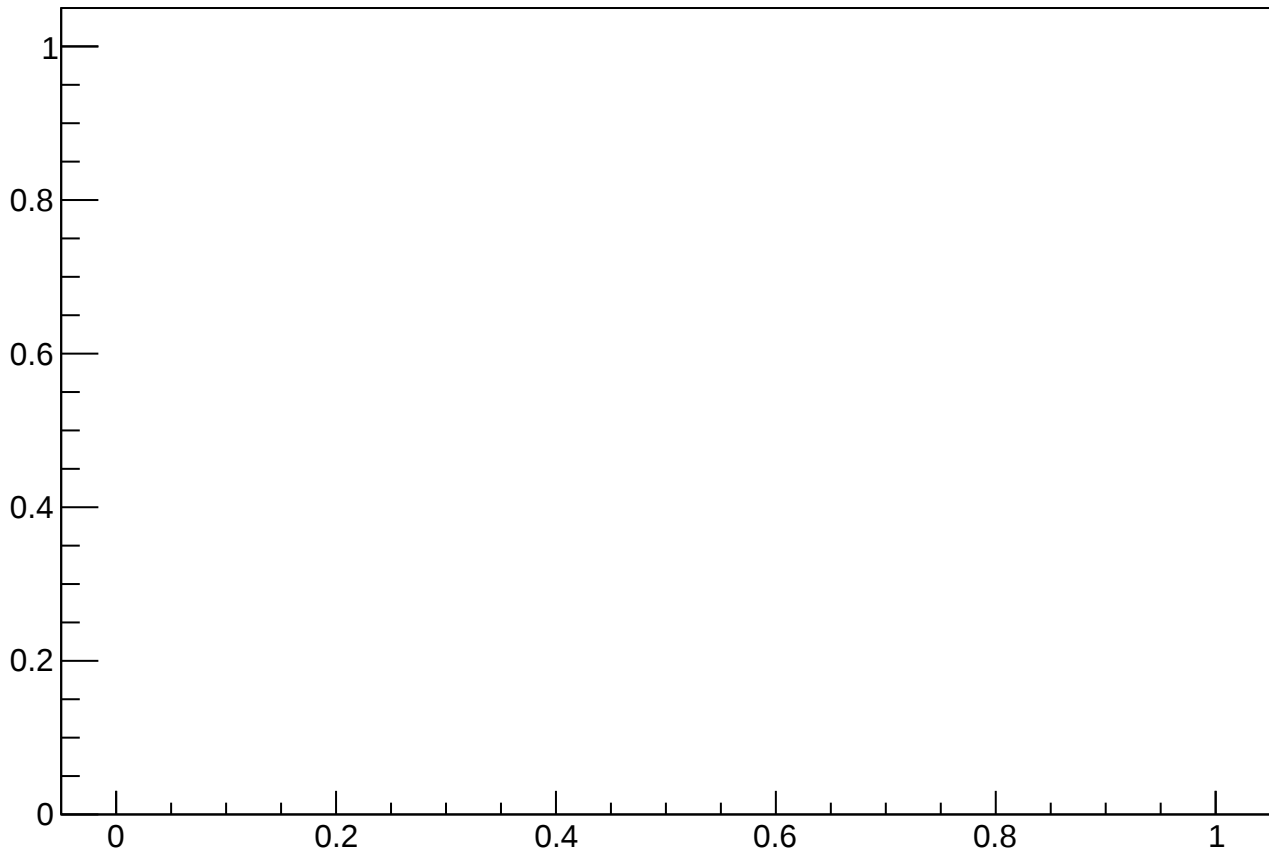
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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

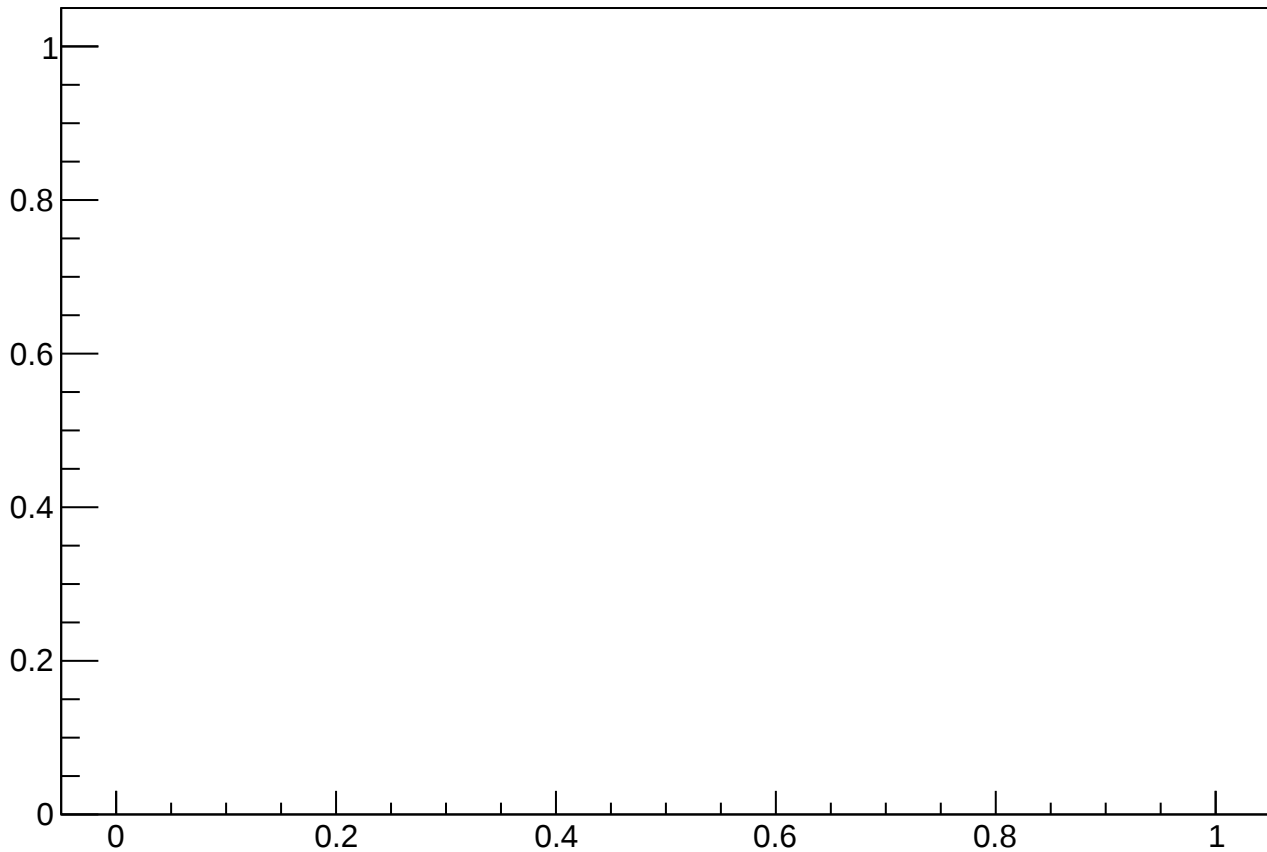
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

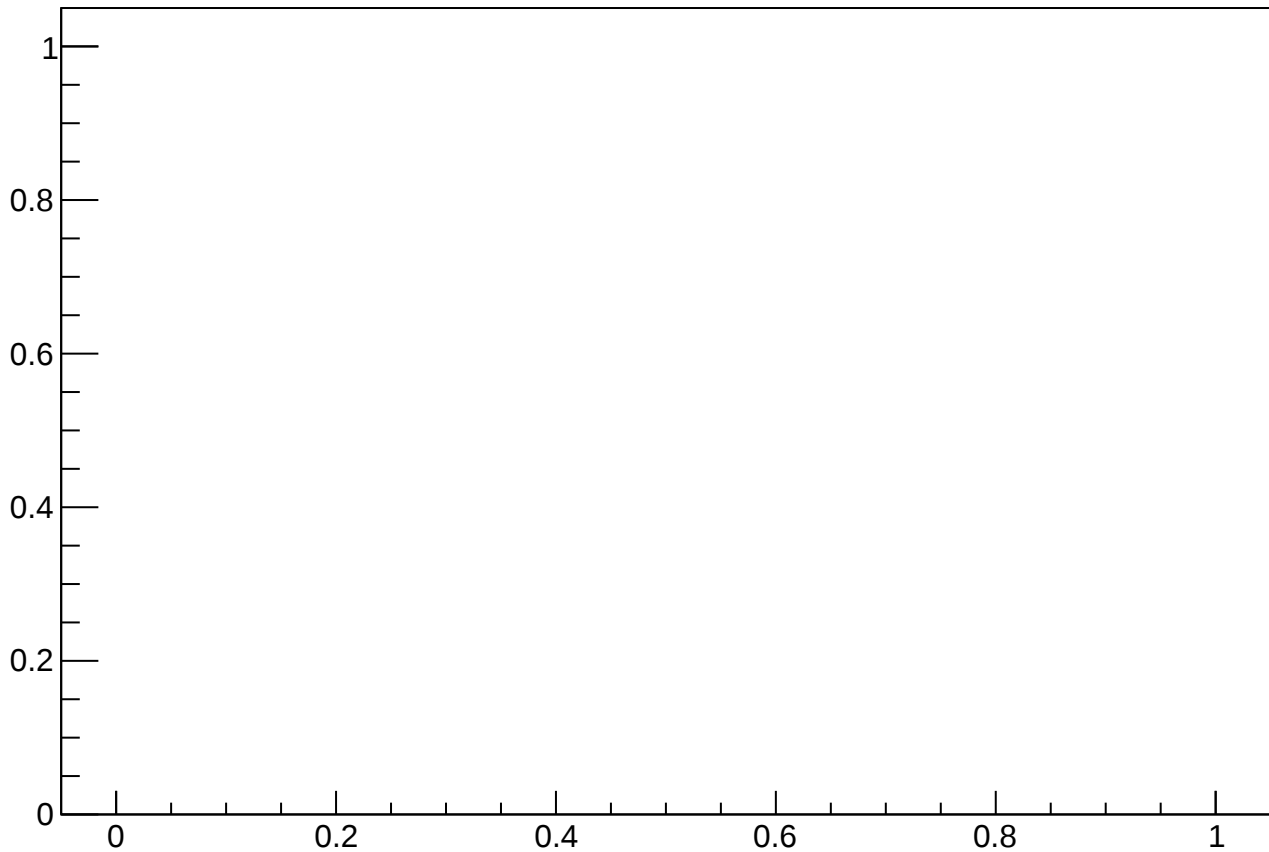
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam8\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_run\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_run\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_slug\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_cyclenum\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_cyclenum\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_scandata1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata1\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_flag\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_flag\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

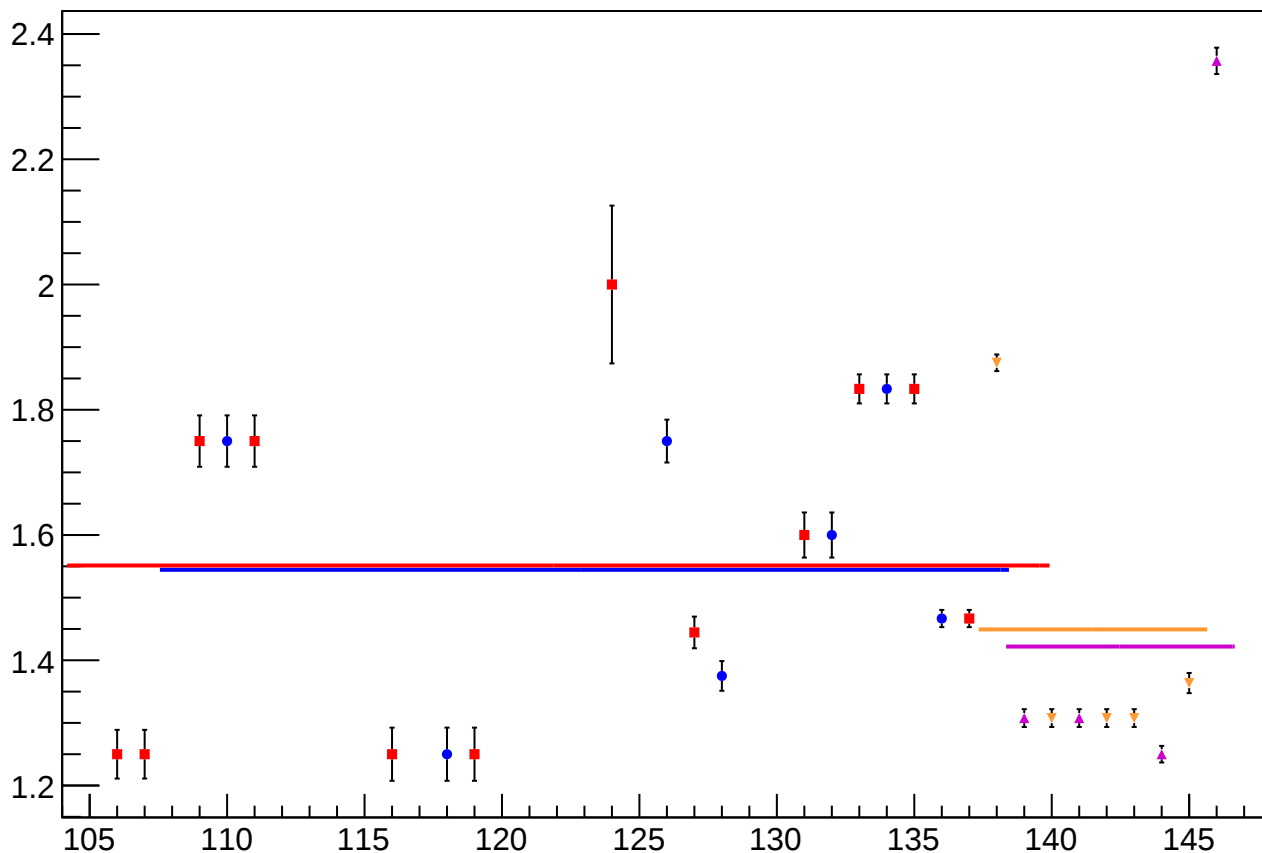
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_segment\_slope vs Slug



Right In: 1.544 $\pm$ 0.009  $\chi^2$ /NDF: 349.7/6

Left Out: 1.449 $\pm$ 0.006  $\chi^2$ /NDF:1359.5/4

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

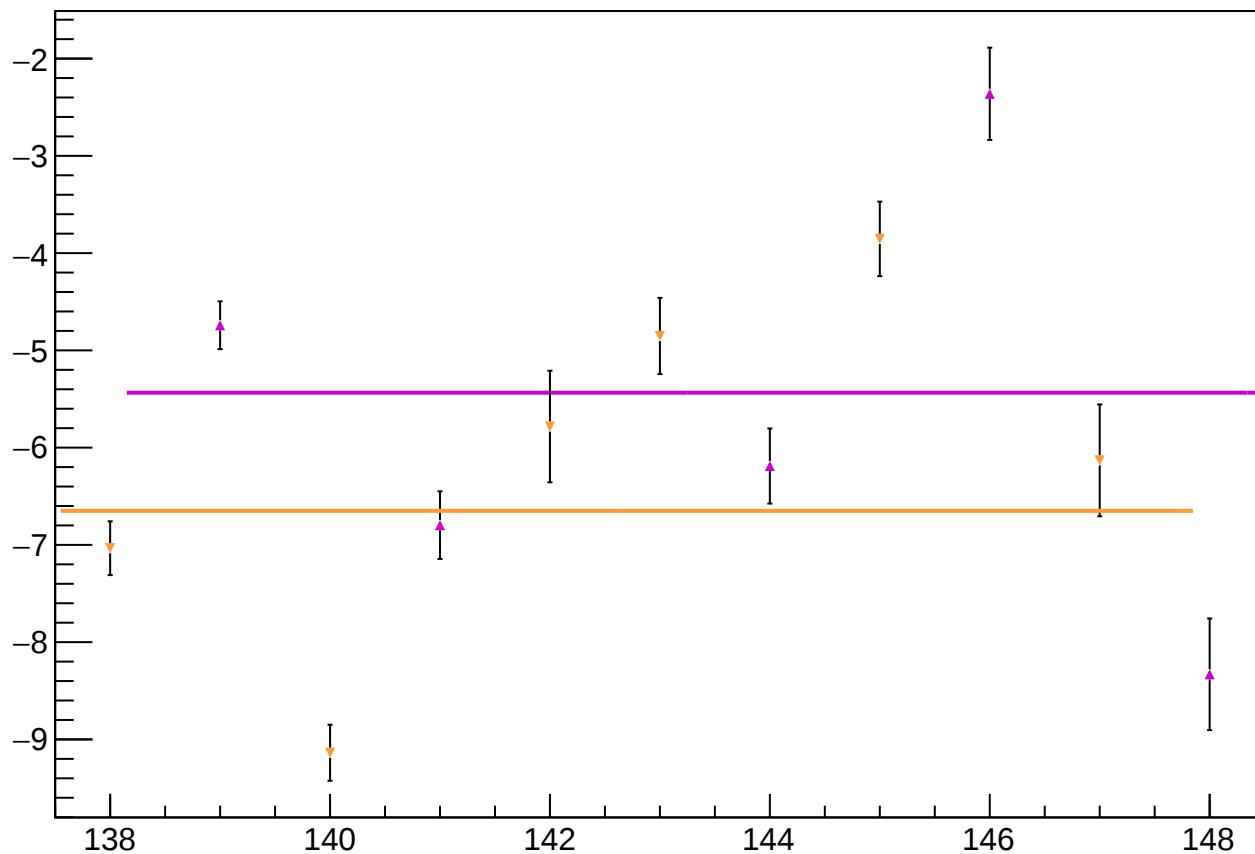
Left In: 1.422 $\pm$ 0.007  $\chi^2$ /NDF:2269.6/3

+ sign 1.480 $\pm$ 0.005  $\chi^2$ /NDF: 1780.9/11

All: 1.481 $\pm$ 0.004  $\chi^2$ /NDF: 4820.7/27

- sign 1.481 $\pm$ 0.006  $\chi^2$ /NDF: 3039.8/15

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -6.650 $\pm$ 0.150  $\chi^2$ /NDF: 153.9/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

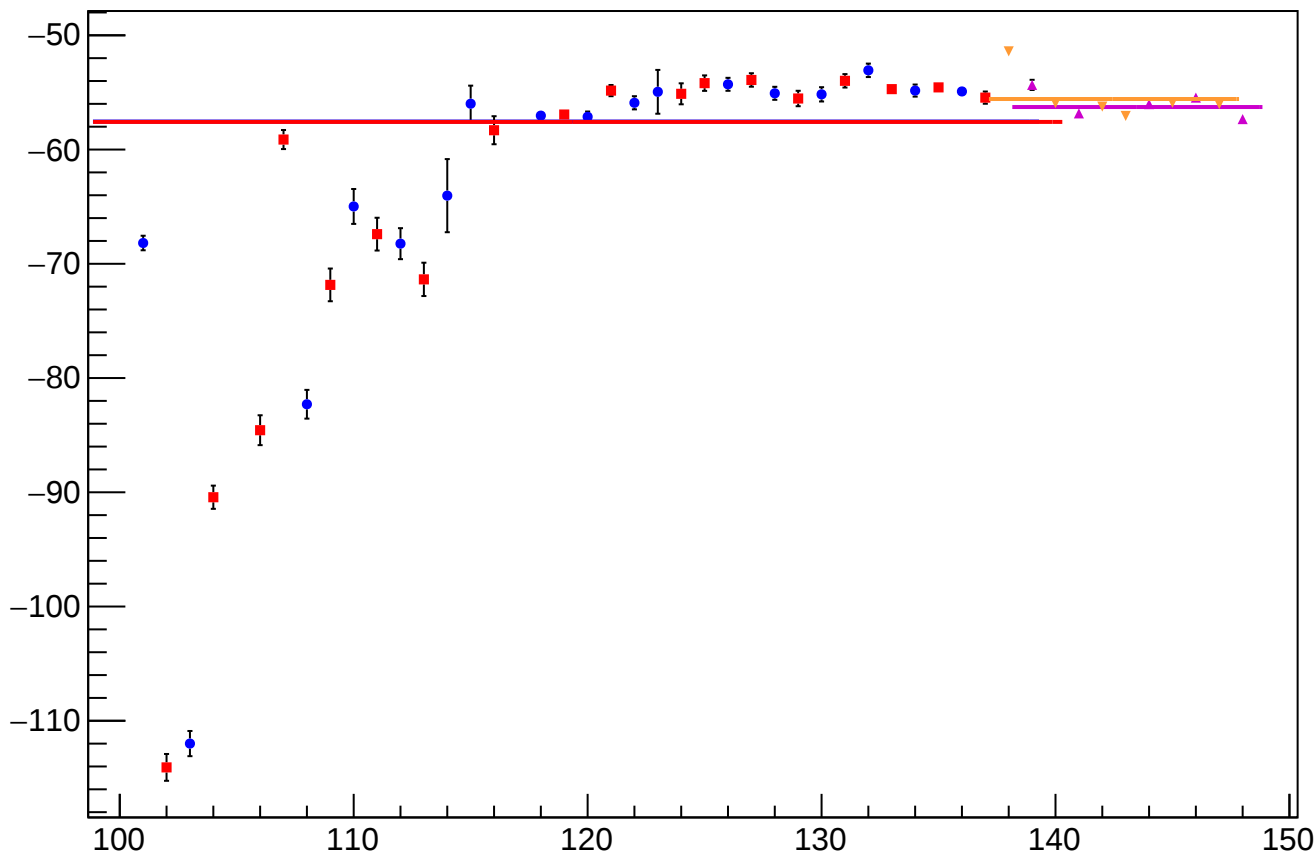
Left In: -5.435 $\pm$ 0.160  $\chi^2$ /NDF: 94.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.083 $\pm$ 0.109  $\chi^2$ /NDF: 279.1/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-57.549 \pm 0.142$   $\chi^2/\text{NDF}$ : 3460.4/16

Left Out:  $-55.576 \pm 0.119$   $\chi^2/\text{NDF}$ : 206.2/5

Right Out:  $-57.581 \pm 0.143$   $\chi^2/\text{NDF}$ : 4343.8/17

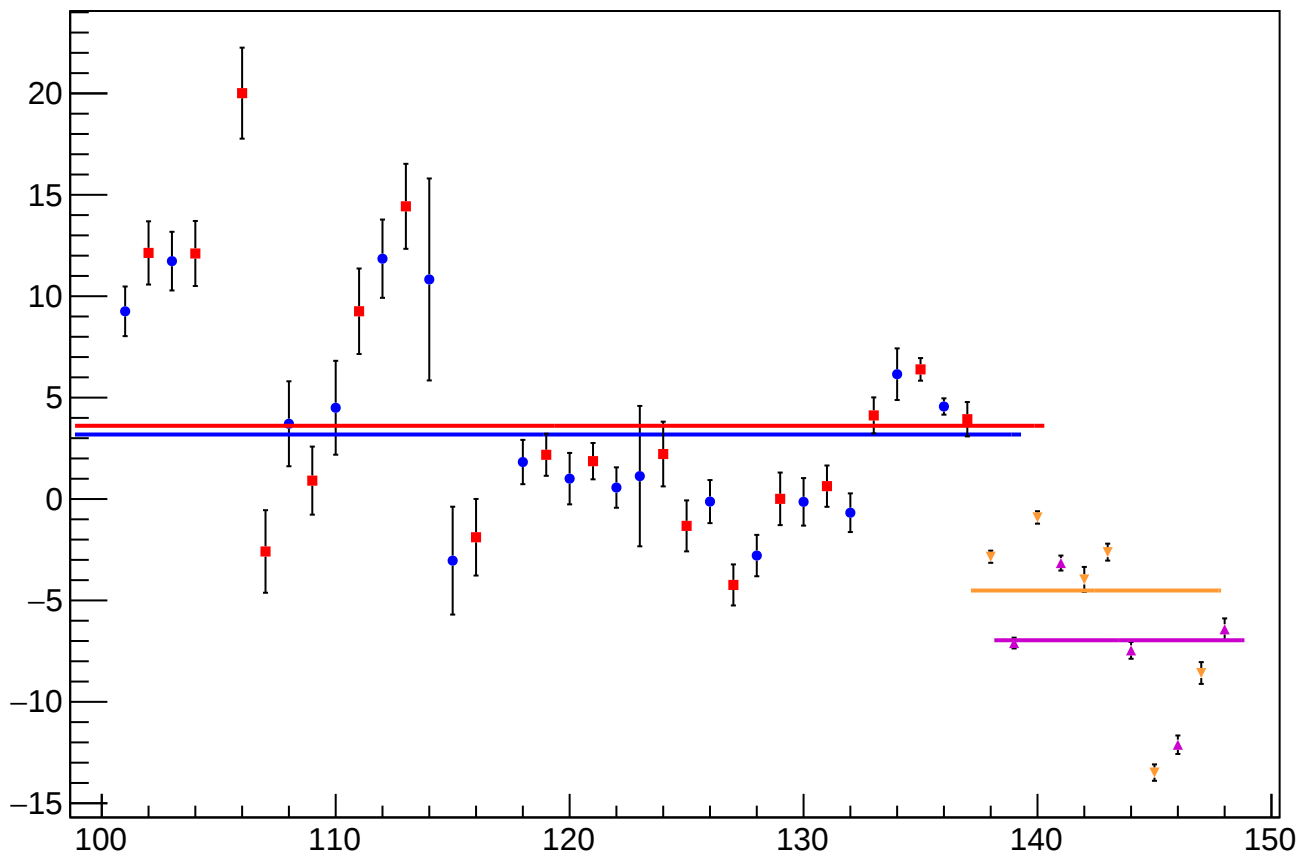
Left In:  $-56.278 \pm 0.133$   $\chi^2/\text{NDF}$ : 45.5/4

+ sign  $-56.393 \pm 0.091$   $\chi^2/\text{NDF}$ : 3780.4/22

All:  $-56.622 \pm 0.067$   $\chi^2/\text{NDF}$ : 8227.8/45

- sign  $-56.882 \pm 0.097$   $\chi^2/\text{NDF}$ : 4433.8/22

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}$ : 185.2/16

Left Out:  $-4.511 \pm 0.159$   $\chi^2/\text{NDF}$ : 740.0/5

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}$ : 289.2/17

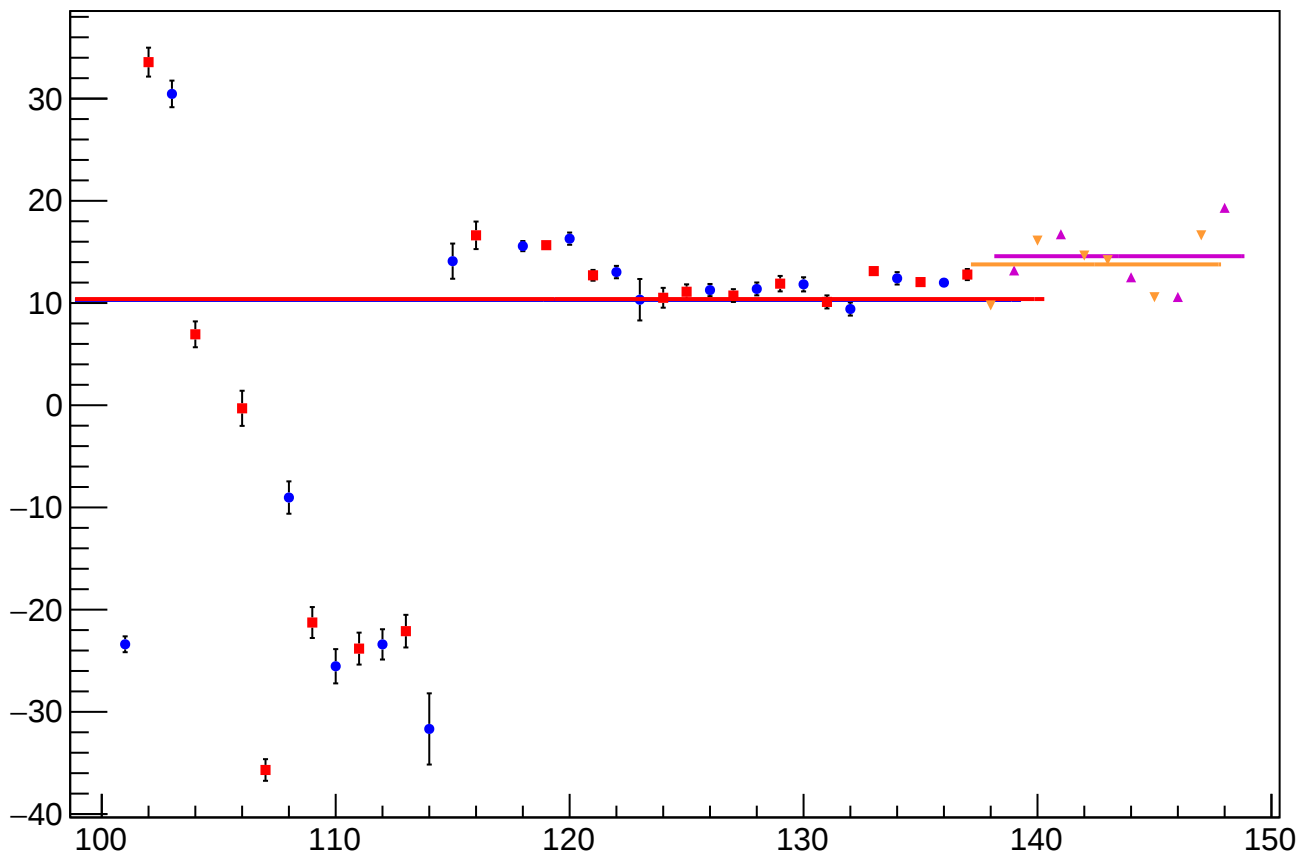
Left In:  $-6.963 \pm 0.168$   $\chi^2/\text{NDF}$ : 236.5/4

+ sign  $-2.398 \pm 0.135$   $\chi^2/\text{NDF}$ : 1570.0/22

All:  $-3.152 \pm 0.098$   $\chi^2/\text{NDF}$ : 3280.8/45

- sign  $-3.985 \pm 0.142$   $\chi^2/\text{NDF}$ : 1645.4/22

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 10.301 $\pm$ 0.157  $\chi^2$ /NDF: 3699.4/16

Left Out: 13.779 $\pm$ 0.143  $\chi^2$ /NDF:333.0/5

Right Out: 10.388 $\pm$ 0.160  $\chi^2$ /NDF: 3786.4/17

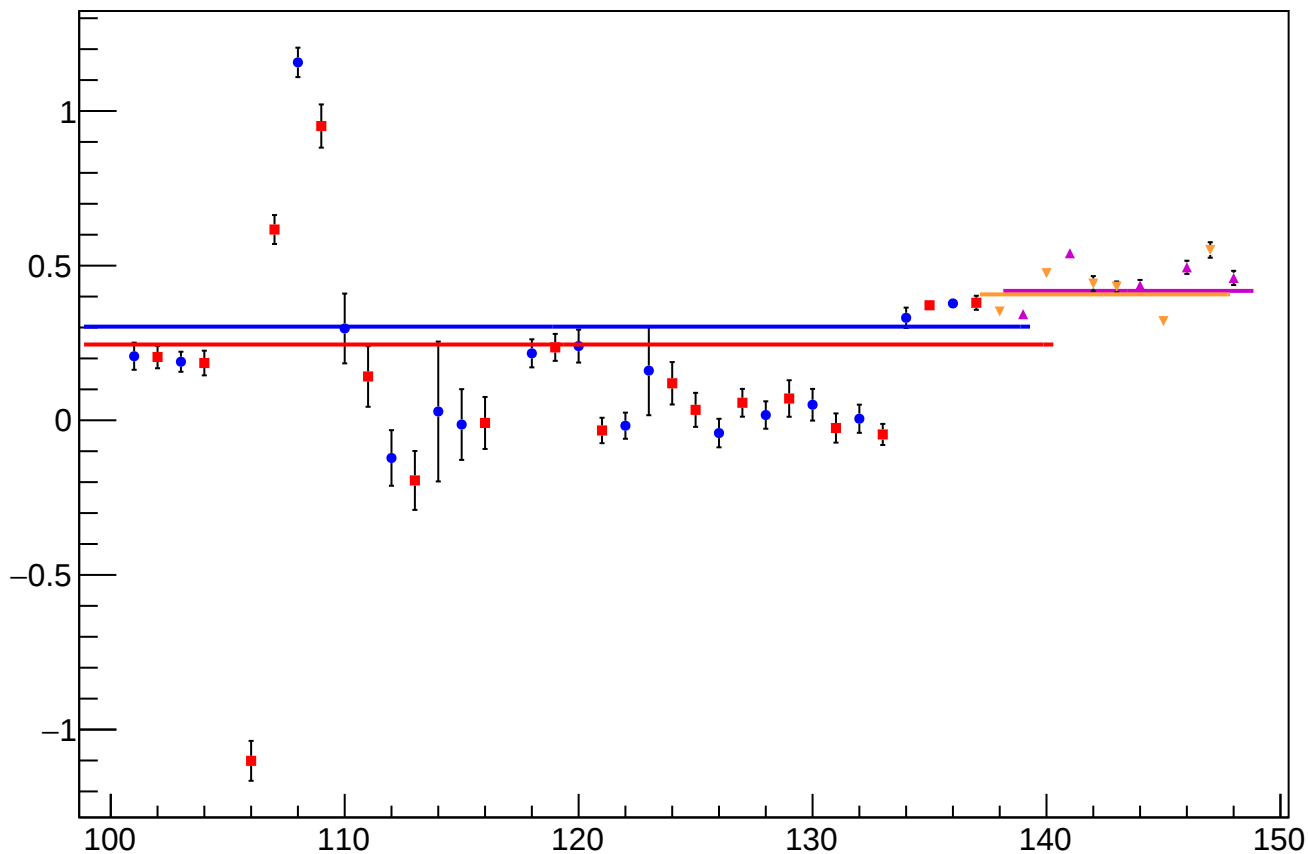
Left In: 14.582 $\pm$ 0.160  $\chi^2$ /NDF:356.3/4

+ sign 12.204 $\pm$ 0.106  $\chi^2$ /NDF: 4300.9/22

All: 12.336 $\pm$ 0.077  $\chi^2$ /NDF: 8791.4/45

- sign 12.488 $\pm$ 0.113  $\chi^2$ /NDF: 4487.1/22

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 647.2/16

Left Out:  $0.407 \pm 0.006$   $\chi^2/\text{NDF}$ : 116.5/5

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

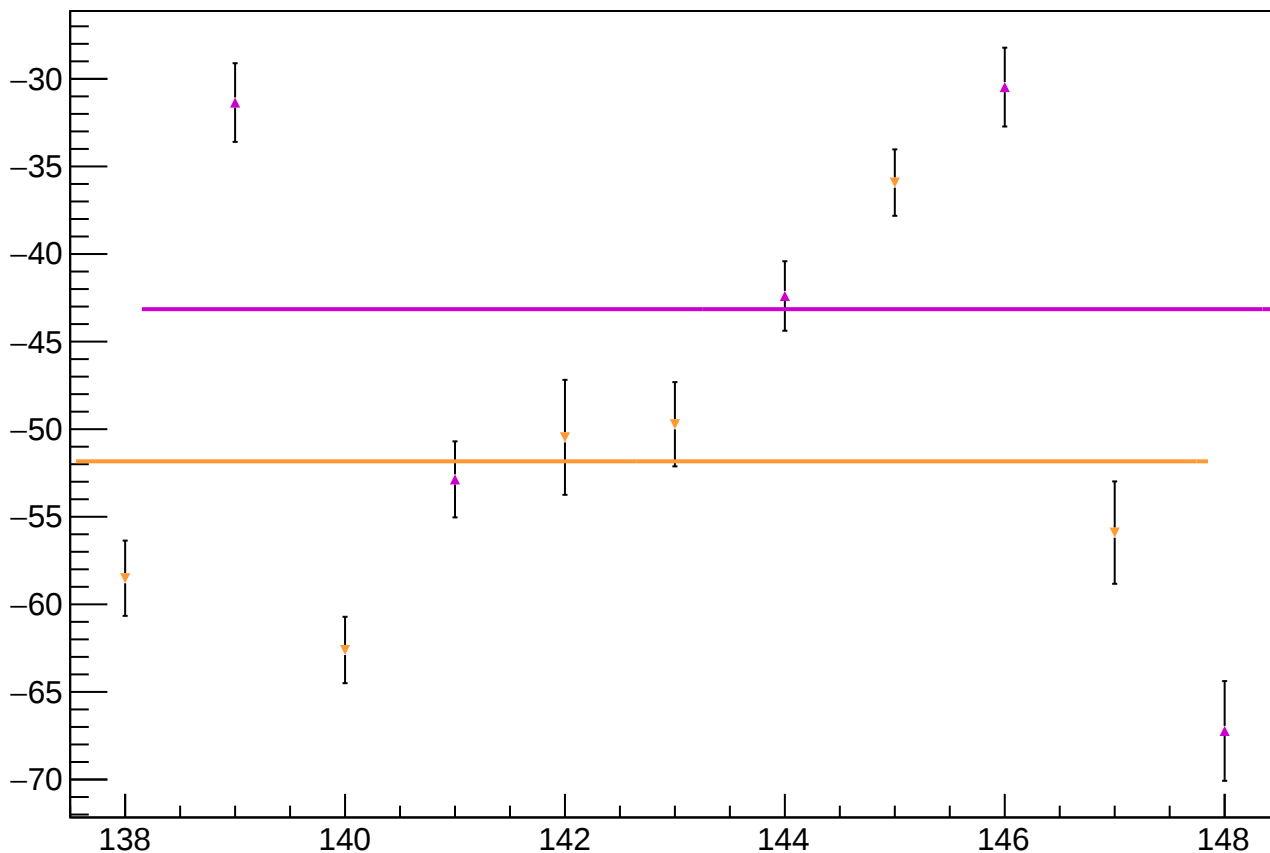
Left In:  $0.418 \pm 0.007$   $\chi^2/\text{NDF}$ : 148.1/4

+ sign  $0.367 \pm 0.005$   $\chi^2/\text{NDF}$ : 863.4/22

All:  $0.360 \pm 0.004$   $\chi^2/\text{NDF}$ : 2228.8/45

- sign  $0.353 \pm 0.005$   $\chi^2/\text{NDF}$ : 1361.8/22

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -51.835+/-0.930  $\chi^2/\text{NDF}$ : 115.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

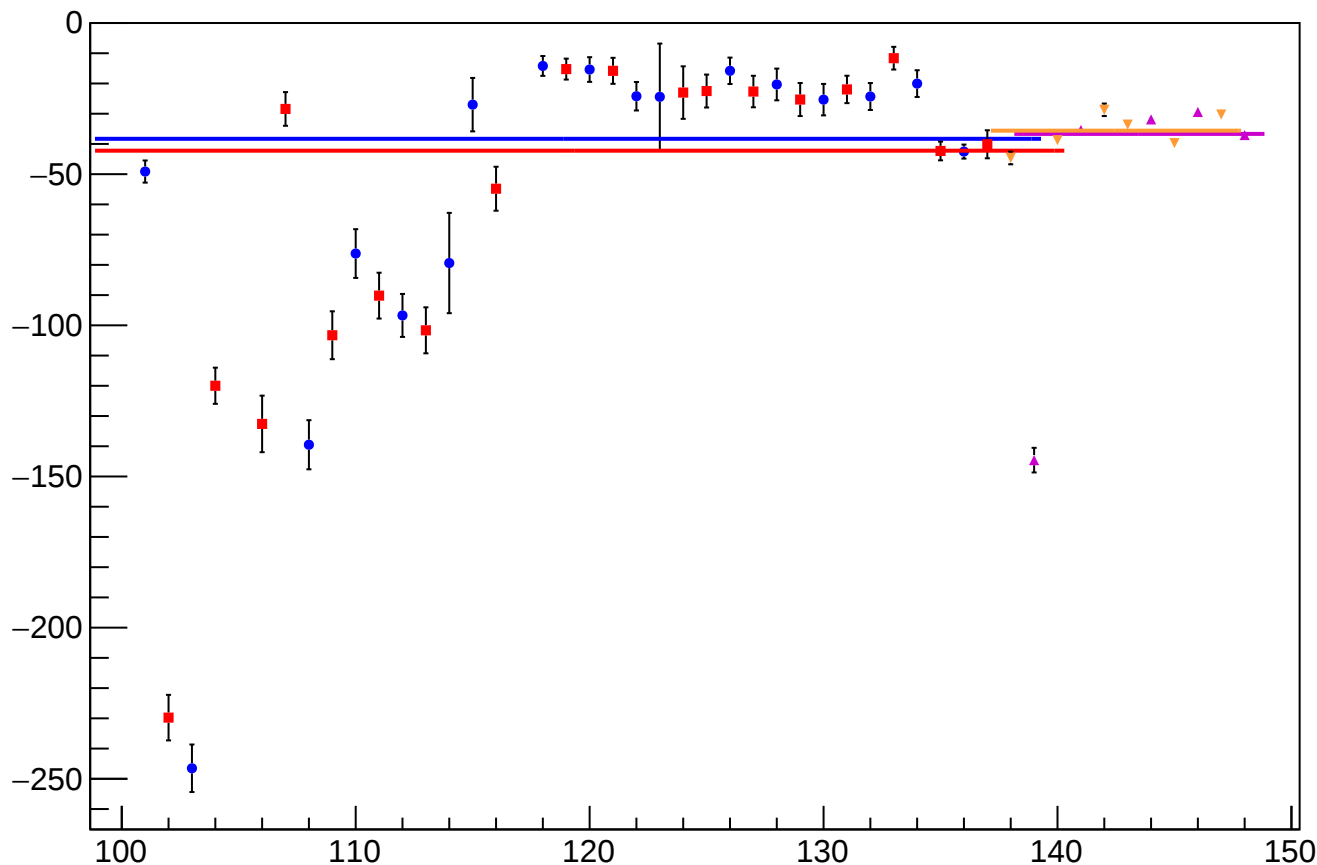
Left In: -43.148+/-1.007  $\chi^2/\text{NDF}$ : 151.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -47.837+/-0.683  $\chi^2/\text{NDF}$ : 306.6/10

- 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:  $-35.604 \pm 0.676$   $\chi^2/\text{NDF}: 57.1/5$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

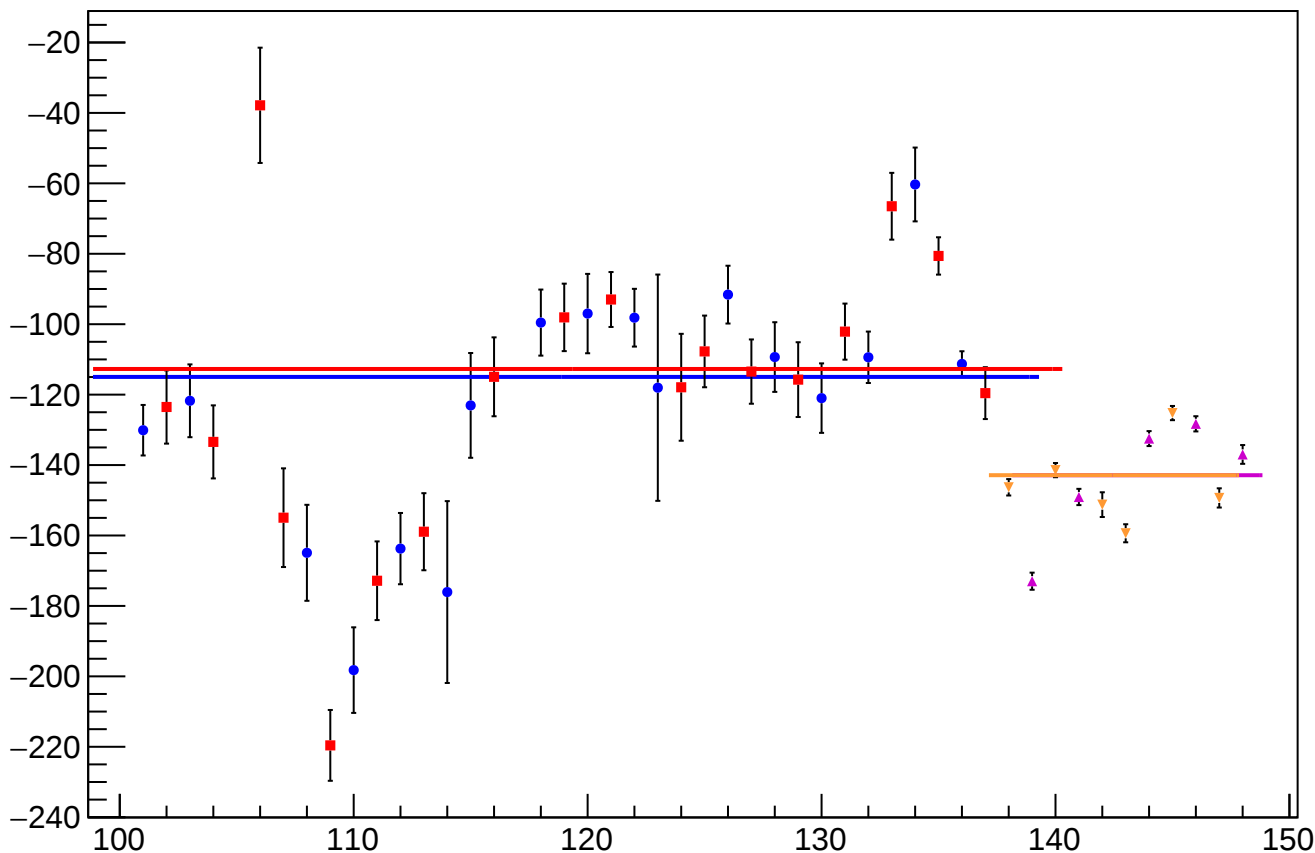
Left In:  $-36.681 \pm 0.705$   $\chi^2/\text{NDF}: 742.2/4$

+ sign  $-36.308 \pm 0.581$   $\chi^2/\text{NDF}: 1194.0/22$

All:  $-37.156 \pm 0.420$   $\chi^2/\text{NDF}: 3234.6/45$

- sign  $-38.087 \pm 0.609$   $\chi^2/\text{NDF}: 2036.1/22$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}: 141.4/16$

Left Out:  $-142.876 \pm 0.979$   $\chi^2/\text{NDF}: 131.8/5$

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}: 267.1/17$

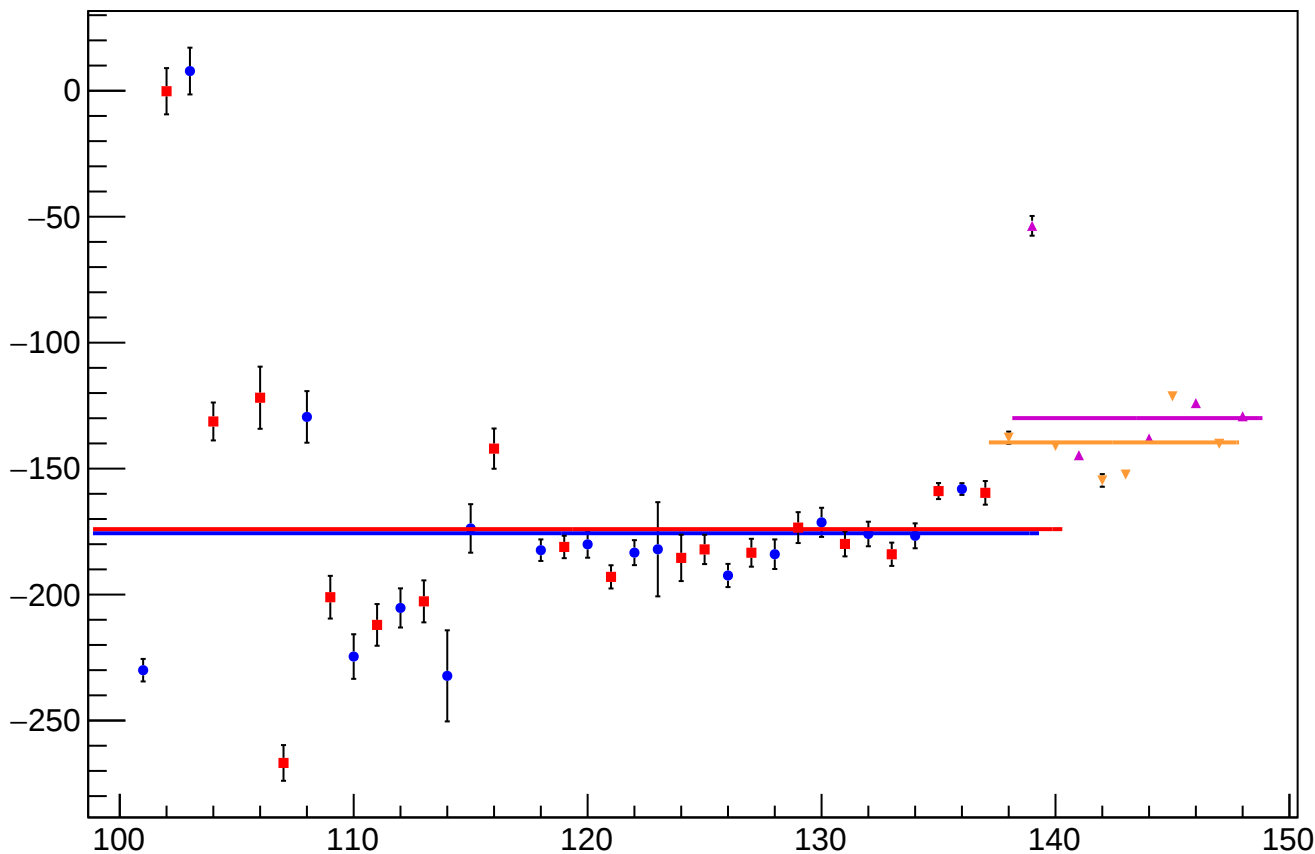
Left In:  $-142.885 \pm 1.035$   $\chi^2/\text{NDF}: 235.4/4$

+ sign  $-137.792 \pm 0.886$   $\chi^2/\text{NDF}: 421.2/22$

All:  $-137.635 \pm 0.644$   $\chi^2/\text{NDF}: 1076.6/45$

- sign  $-137.460 \pm 0.937$   $\chi^2/\text{NDF}: 655.3/22$

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-139.598 \pm 0.827$   $\chi^2/\text{NDF}$ : 186.5/5

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

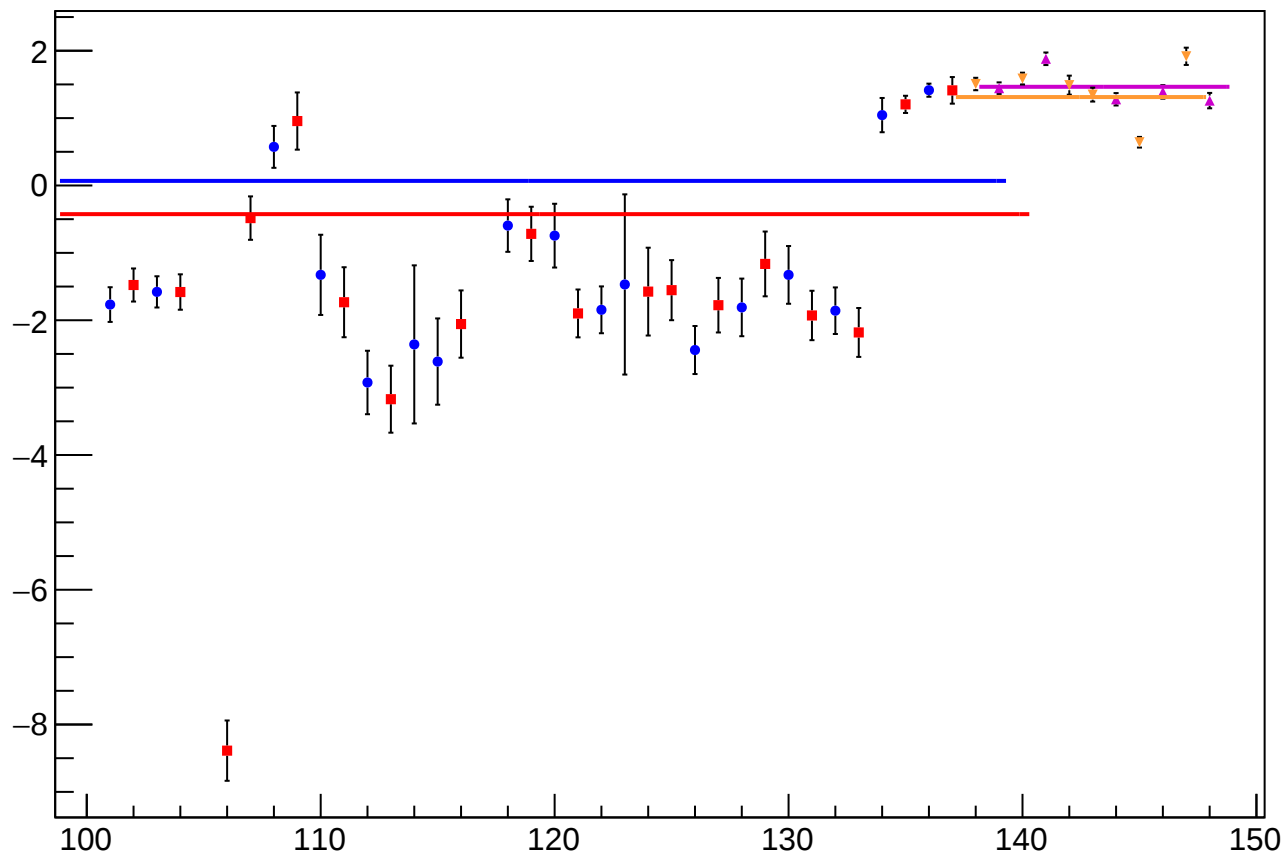
Left In:  $-129.951 \pm 0.876$   $\chi^2/\text{NDF}$ : 476.5/4

+ sign  $-150.336 \pm 0.693$   $\chi^2/\text{NDF}$ : 1445.2/22

All:  $-146.859 \pm 0.504$   $\chi^2/\text{NDF}$ : 3424.9/45

- sign  $-142.937 \pm 0.736$   $\chi^2/\text{NDF}$ : 1926.0/22

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In: 0.068 $\pm$ 0.067  $\chi^2$ /NDF: 525.9/16

Left Out: 1.313 $\pm$ 0.040  $\chi^2$ /NDF:110.0/5

Right Out: -0.425 $\pm$ 0.071  $\chi^2$ /NDF: 742.9/17

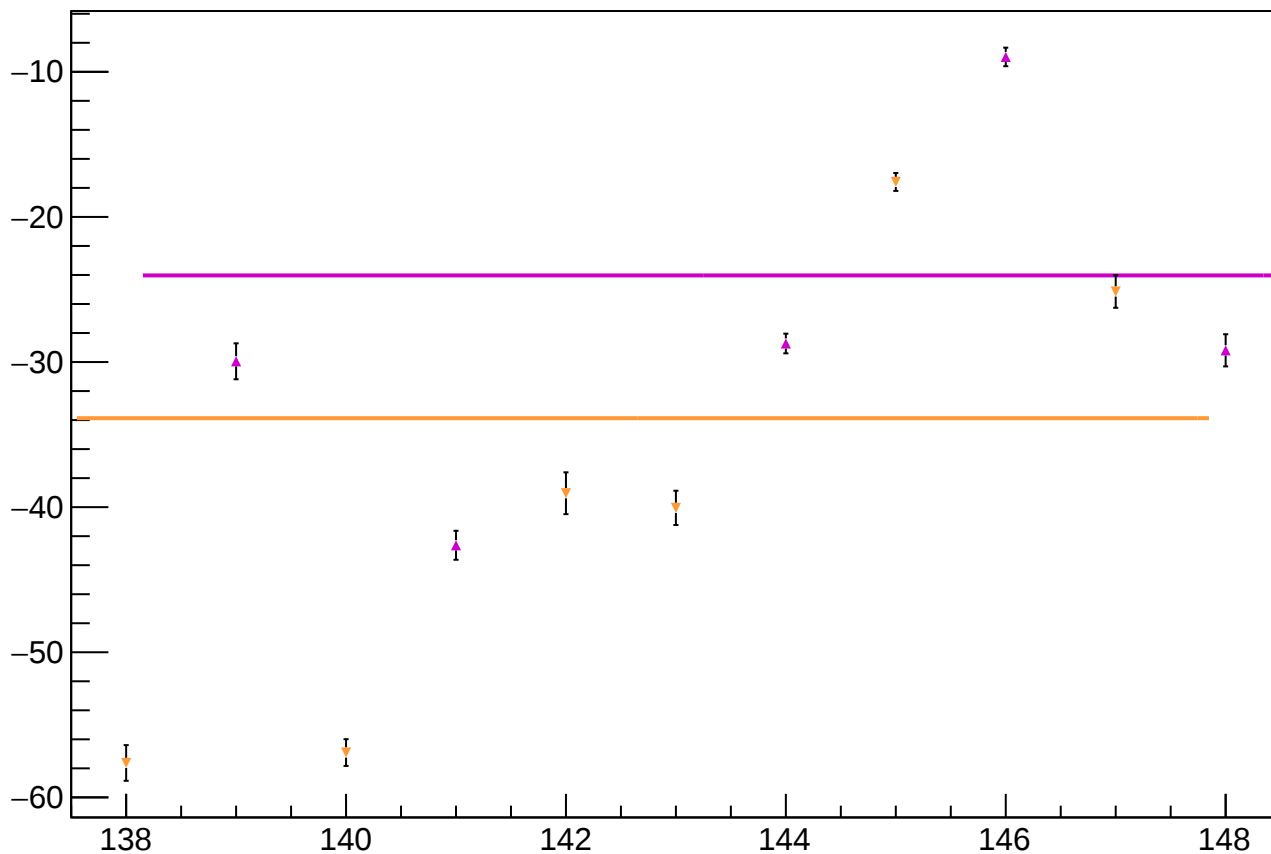
Left In: 1.465 $\pm$ 0.043  $\chi^2$ /NDF:27.8/4

+ sign 0.980 $\pm$ 0.035  $\chi^2$ /NDF: 888.5/22

All: 0.972 $\pm$ 0.025  $\chi^2$ /NDF: 2176.0/45

- sign 0.962 $\pm$ 0.037  $\chi^2$ /NDF: 1287.3/22

# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.869+/-0.394  $\chi^2/\text{NDF}$ : 1794.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

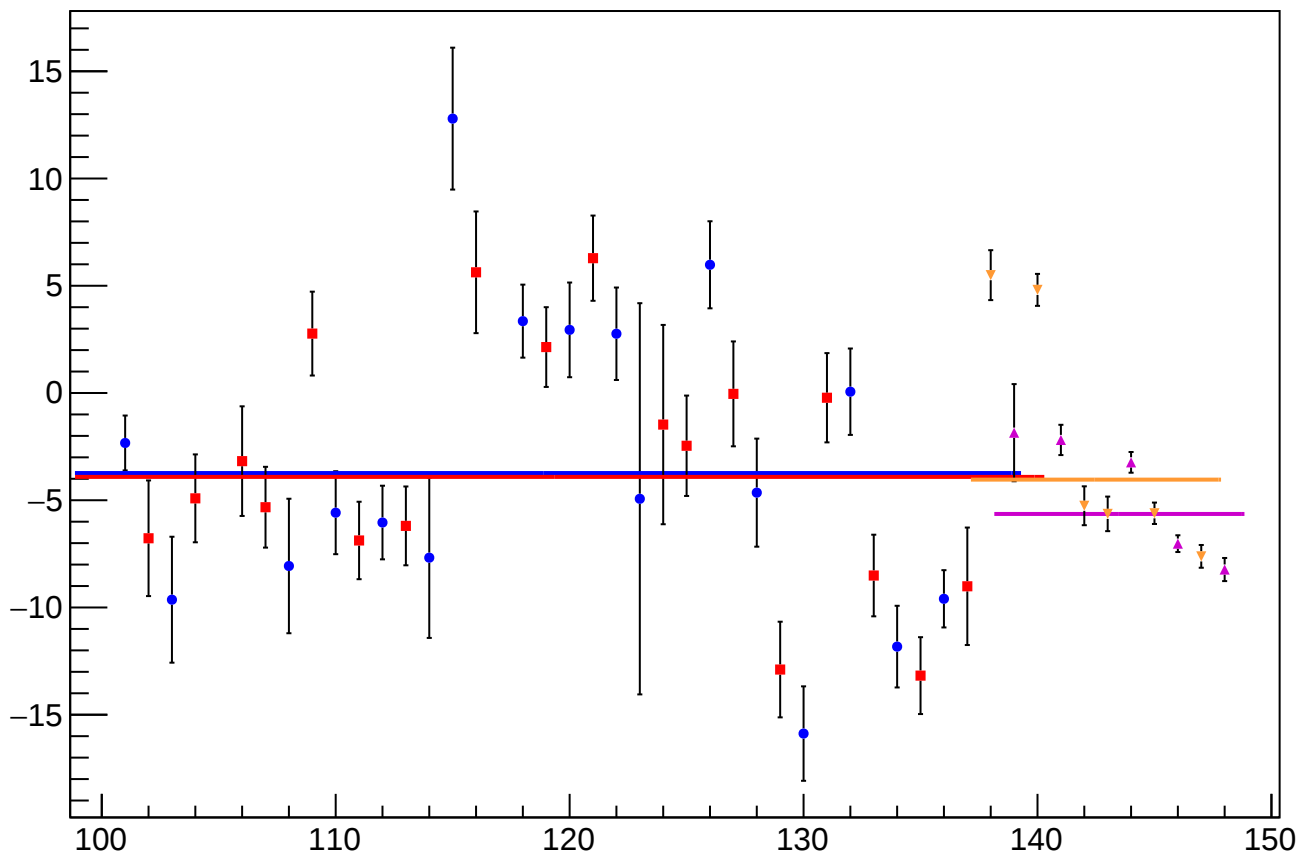
Left In: -24.030+/-0.375  $\chi^2/\text{NDF}$ : 995.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -28.717+/-0.272  $\chi^2/\text{NDF}$ : 3116.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.732 \pm 0.496$   $\chi^2/\text{NDF}$ : 165.8/16

Left Out:  $-4.039 \pm 0.279$   $\chi^2/\text{NDF}$ : 269.1/5

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.8/17

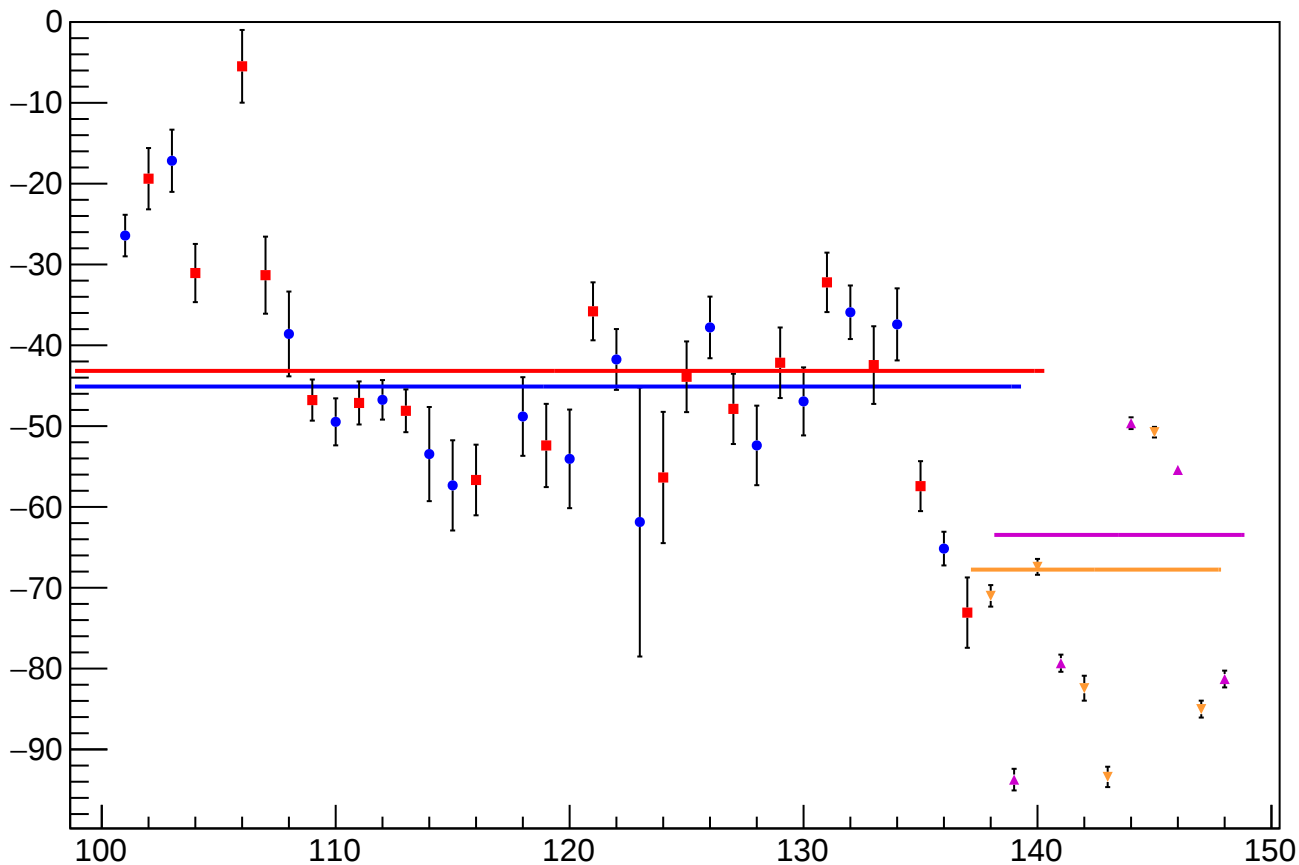
Left In:  $-5.639 \pm 0.246$   $\chi^2/\text{NDF}$ : 87.2/4

+ sign  $-3.965 \pm 0.243$   $\chi^2/\text{NDF}$ : 435.2/22

All:  $-4.700 \pm 0.164$   $\chi^2/\text{NDF}$ : 673.3/45

- sign  $-5.310 \pm 0.221$   $\chi^2/\text{NDF}$ : 221.4/22

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-67.755 \pm 0.412$   $\chi^2/\text{NDF}$ : 1456.4/5

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

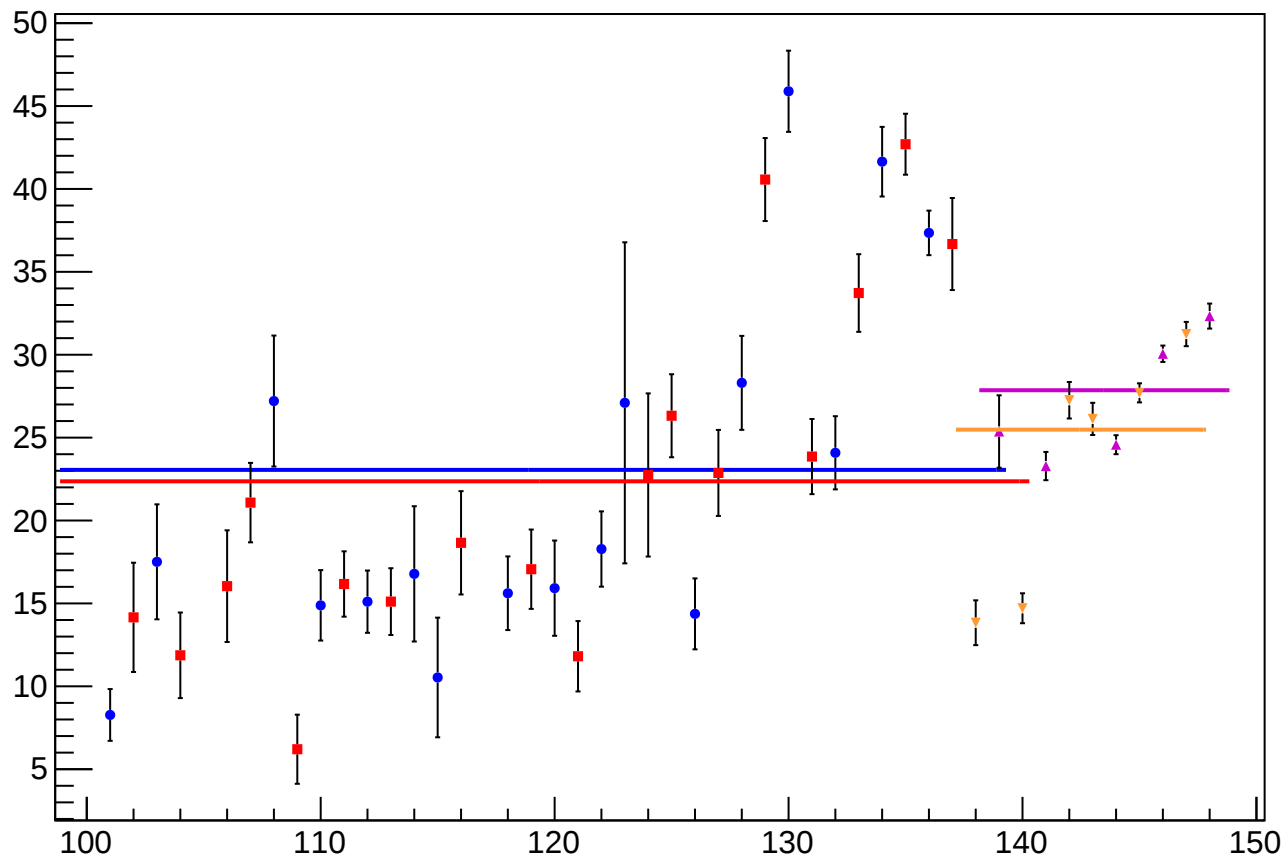
Left In:  $-63.461 \pm 0.380$   $\chi^2/\text{NDF}$ : 1564.0/4

+ sign  $-63.702 \pm 0.373$   $\chi^2/\text{NDF}$ : 2227.9/22

All:  $-61.868 \pm 0.255$   $\chi^2/\text{NDF}$ : 4518.9/45

- sign  $-60.266 \pm 0.349$   $\chi^2/\text{NDF}$ : 2245.8/22

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 25.482 $\pm$ 0.342  $\chi^2$ /NDF: 296.6/5

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

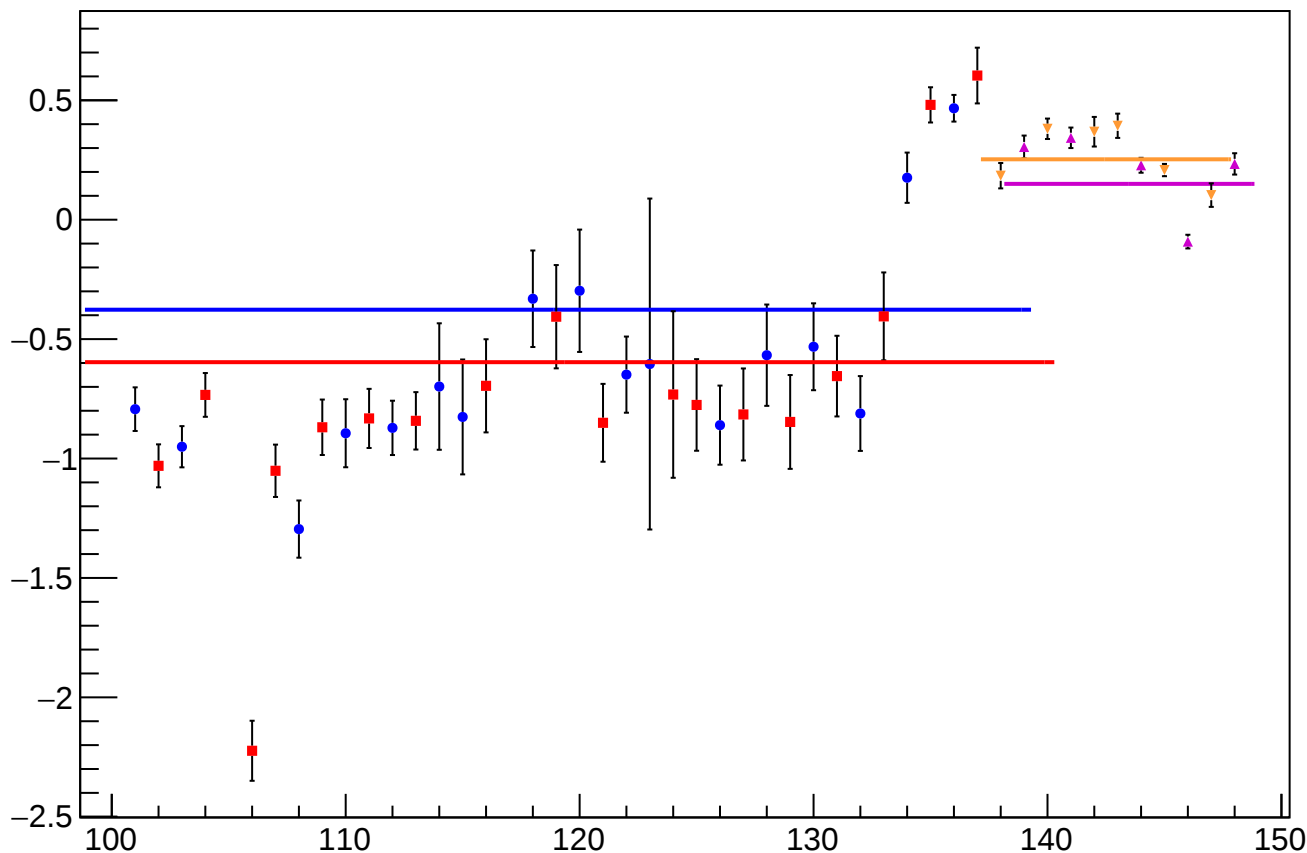
Left In: 27.859 $\pm$ 0.309  $\chi^2$ /NDF: 117.9/4

+ sign 24.817 $\pm$ 0.292  $\chi^2$ /NDF: 771.5/22

All: 25.782 $\pm$ 0.199  $\chi^2$ /NDF: 1349.9/45

- sign 26.621 $\pm$ 0.272  $\chi^2$ /NDF: 558.0/22

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.4/16$

Left Out:  $0.253 \pm 0.017$   $\chi^2/\text{NDF}: 34.0/5$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

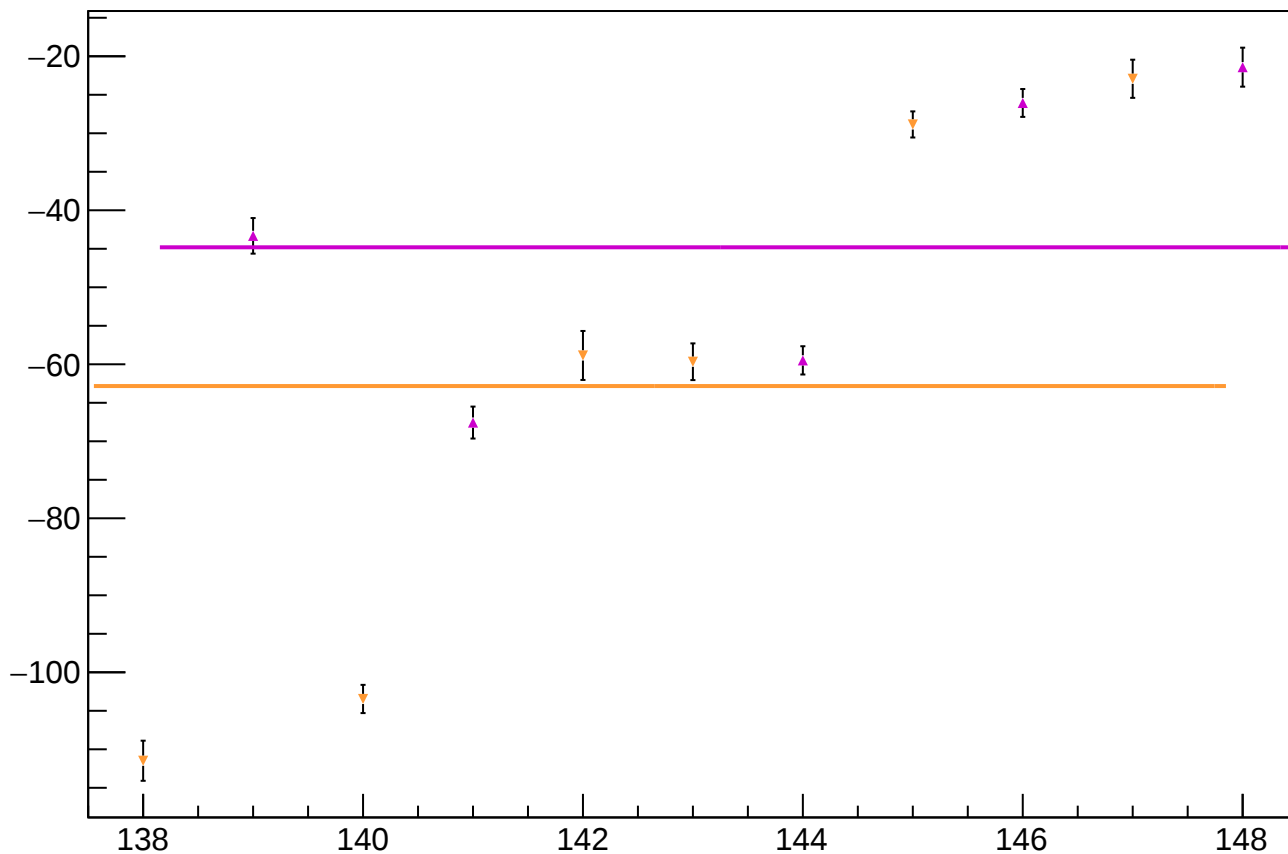
Left In:  $0.150 \pm 0.016$   $\chi^2/\text{NDF}: 111.5/4$

+ sign  $0.101 \pm 0.015$   $\chi^2/\text{NDF}: 803.5/22$

All:  $0.039 \pm 0.010$   $\chi^2/\text{NDF}: 1971.3/45$

- sign  $-0.019 \pm 0.014$   $\chi^2/\text{NDF}: 1133.9/22$

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -62.827+/-0.901  $\chi^2/\text{NDF}$ :1505.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

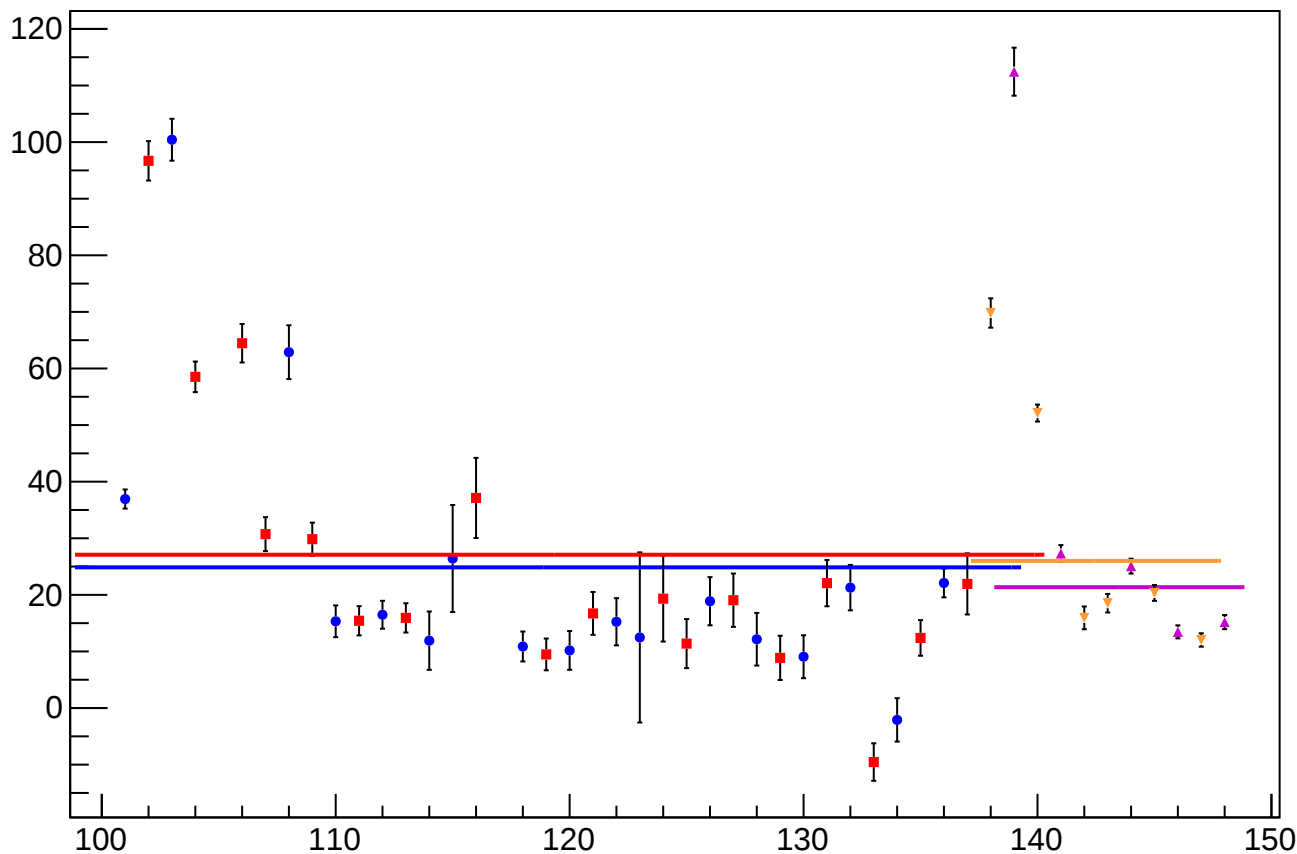
Left In: -44.808+/-0.922  $\chi^2/\text{NDF}$ :377.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.018+/-0.644  $\chi^2/\text{NDF}$ : 2078.0/10

- 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  $\chi^2$ /NDF: 691.0/16

Left Out: 26.001 $\pm$ 0.640  $\chi^2$ /NDF: 790.5/5

Right Out: 27.093 $\pm$ 0.812  $\chi^2$ /NDF: 930.9/17

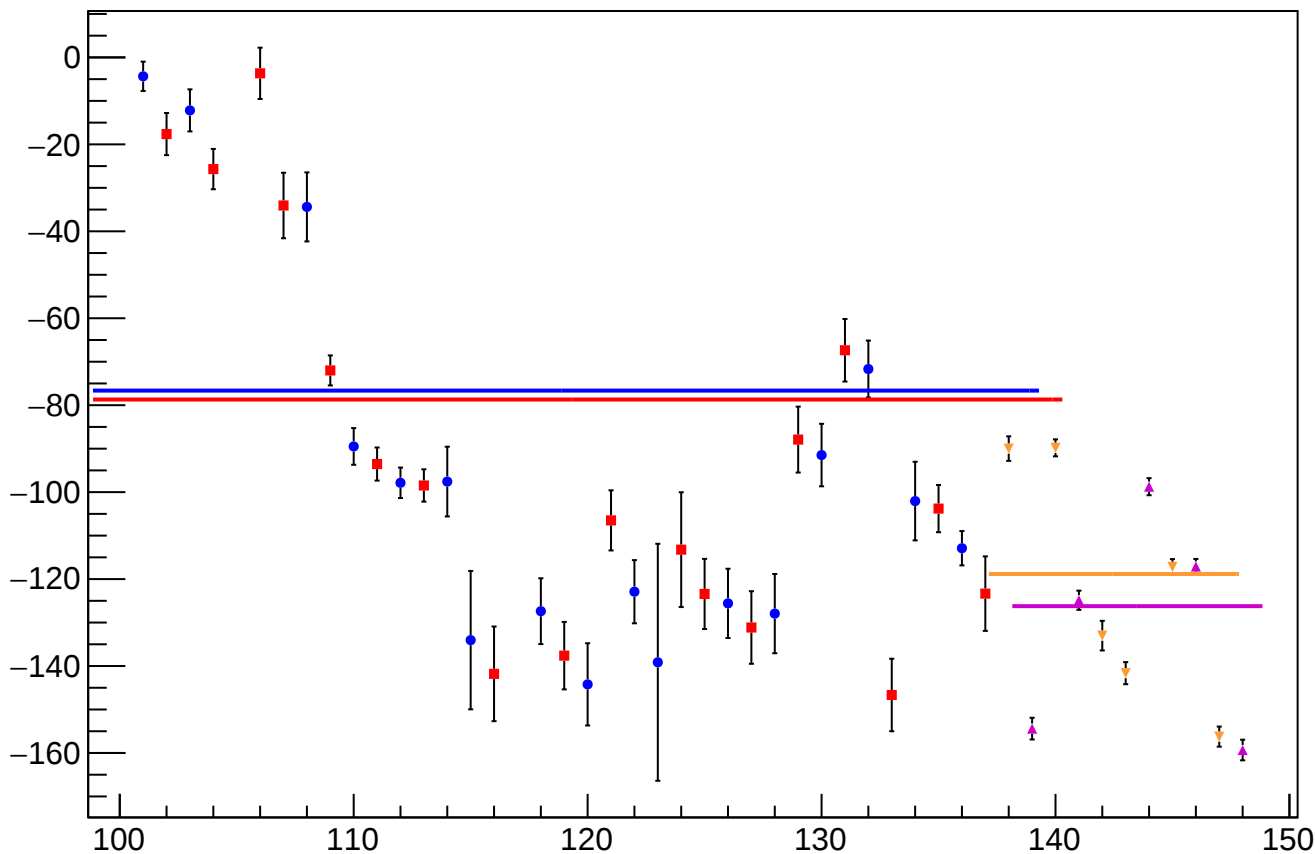
Left In: 21.356 $\pm$ 0.633  $\chi^2$ /NDF: 557.0/4

+ sign 25.558 $\pm$ 0.500  $\chi^2$ /NDF: 1482.7/22

All: 24.540 $\pm$ 0.353  $\chi^2$ /NDF: 3010.0/45

- sign 23.526 $\pm$ 0.499  $\chi^2$ /NDF: 1519.0/22

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}$ : 1040.7/16

Left Out:  $-118.830 \pm 0.942$   $\chi^2/\text{NDF}$ : 685.5/5

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}$ : 836.5/17

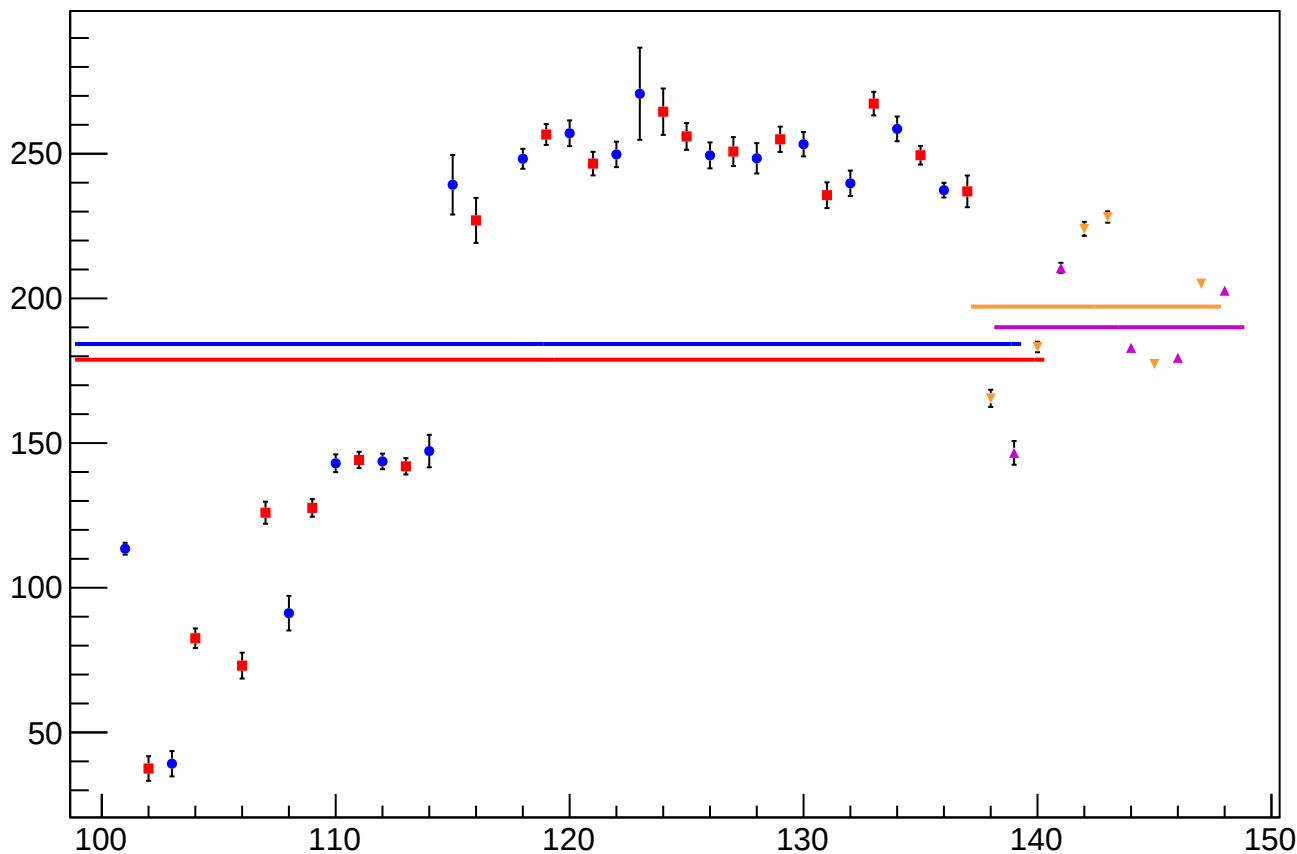
Left In:  $-126.226 \pm 0.940$   $\chi^2/\text{NDF}$ : 545.0/4

+ sign  $-105.875 \pm 0.784$   $\chi^2/\text{NDF}$ : 2342.4/22

All:  $-108.406 \pm 0.550$   $\chi^2/\text{NDF}$ : 4571.3/45

- sign  $-110.867 \pm 0.773$   $\chi^2/\text{NDF}$ : 2208.3/22

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In:  $184.246 \pm 0.915$   $\chi^2/\text{NDF}: 5388.6/16$

Left Out:  $197.167 \pm 0.787$   $\chi^2/\text{NDF}: 719.9/5$

Right Out:  $178.822 \pm 0.926$   $\chi^2/\text{NDF}: 6171.0/17$

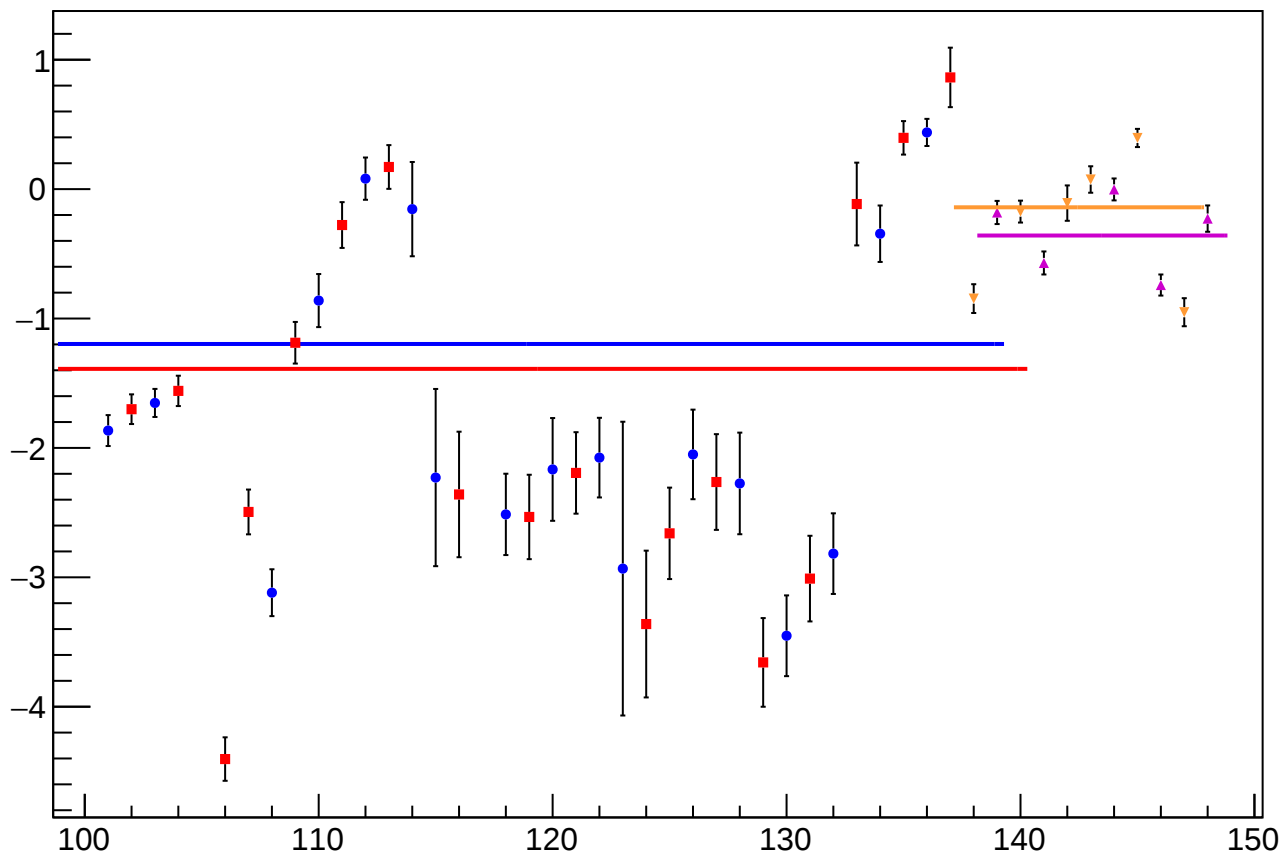
Left In:  $190.044 \pm 0.787$   $\chi^2/\text{NDF}: 374.5/4$

+ sign  $191.672 \pm 0.597$   $\chi^2/\text{NDF}: 6223.0/22$

All:  $188.518 \pm 0.423$   $\chi^2/\text{NDF}: 12909.9/45$

- sign  $185.333 \pm 0.600$   $\chi^2/\text{NDF}: 6630.8/22$

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.141 \pm 0.039$   $\chi^2/\text{NDF}$ : 158.8/5

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

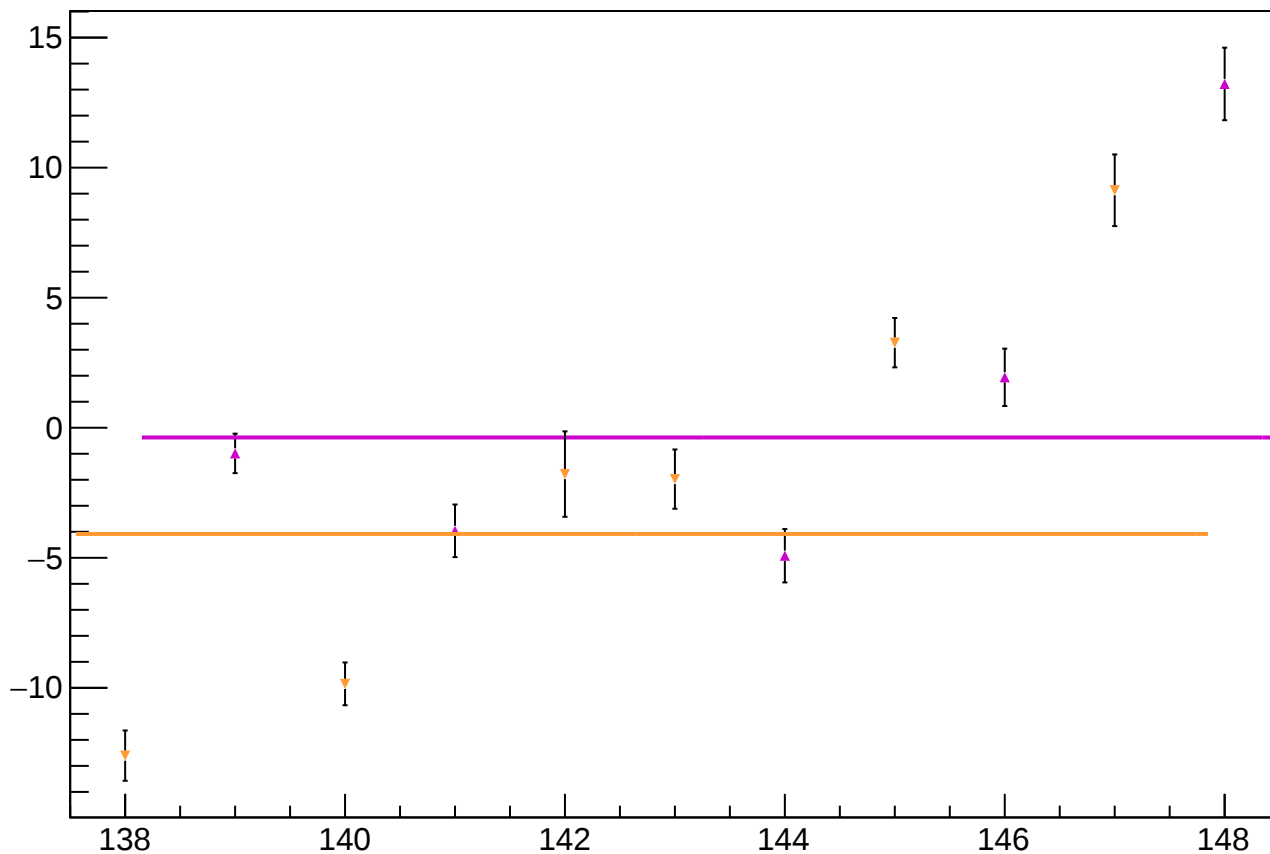
Left In:  $-0.359 \pm 0.040$   $\chi^2/\text{NDF}$ : 51.0/4

+ sign  $-0.559 \pm 0.030$   $\chi^2/\text{NDF}$ : 1070.9/22

All:  $-0.679 \pm 0.021$   $\chi^2/\text{NDF}$ : 2362.8/45

- sign  $-0.796 \pm 0.030$   $\chi^2/\text{NDF}$ : 1261.0/22

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.083 $\pm$ 0.433  $\chi^2$ /NDF: 284.2/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

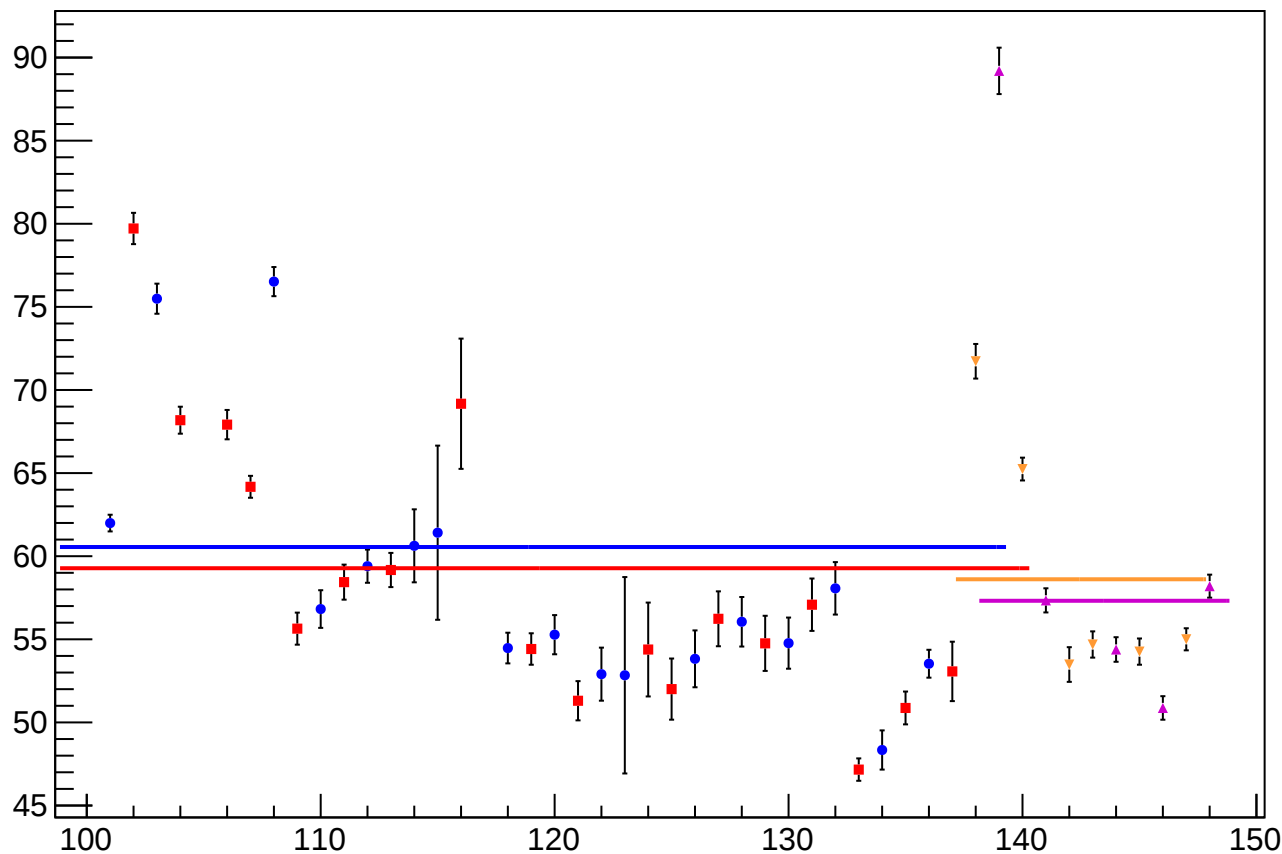
Left In: -0.374 $\pm$ 0.447  $\chi^2$ /NDF: 132.3/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

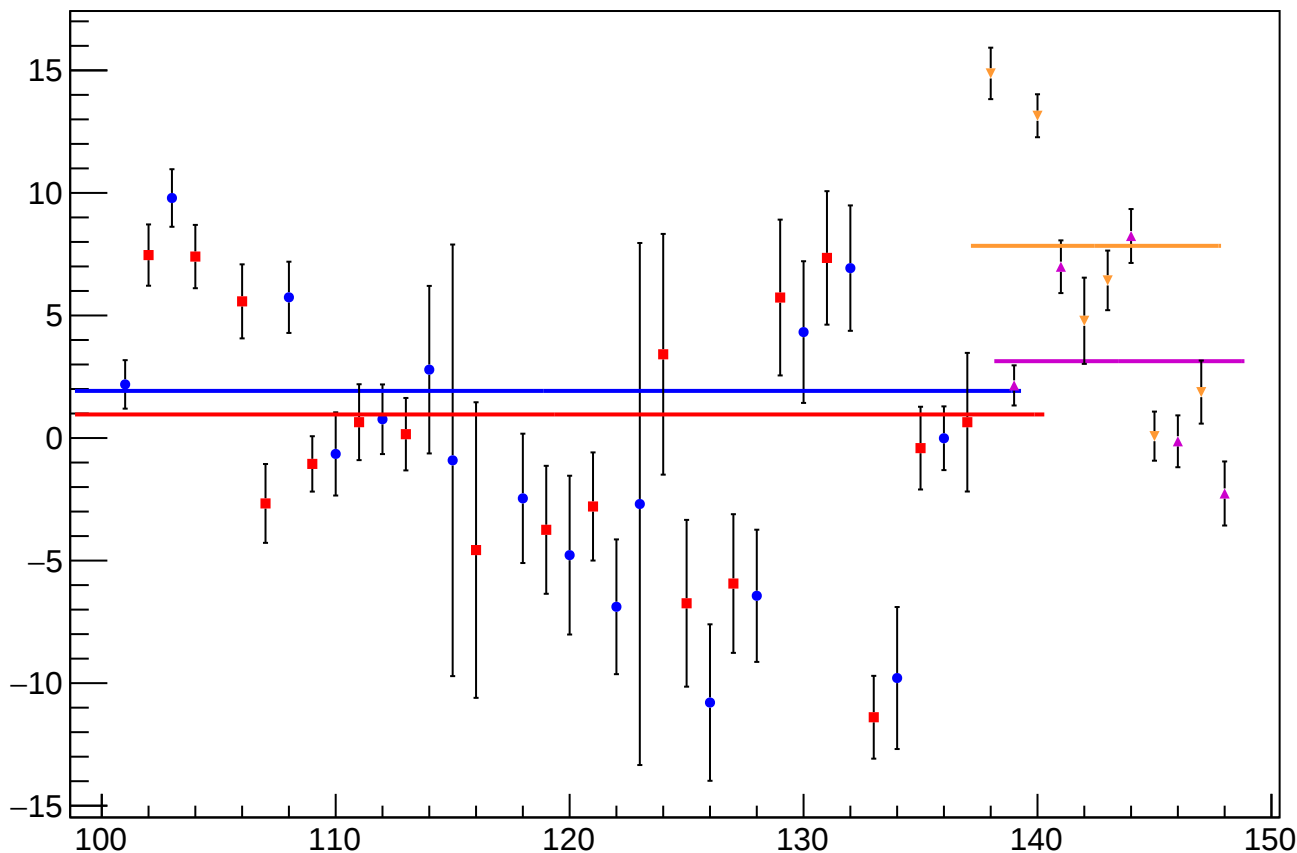
All: -2.286 $\pm$ 0.311  $\chi^2$ /NDF: 451.9/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}$ : 121.1/16

Left Out:  $7.841 \pm 0.456$   $\chi^2/\text{NDF}$ : 167.5/5

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}$ : 150.1/17

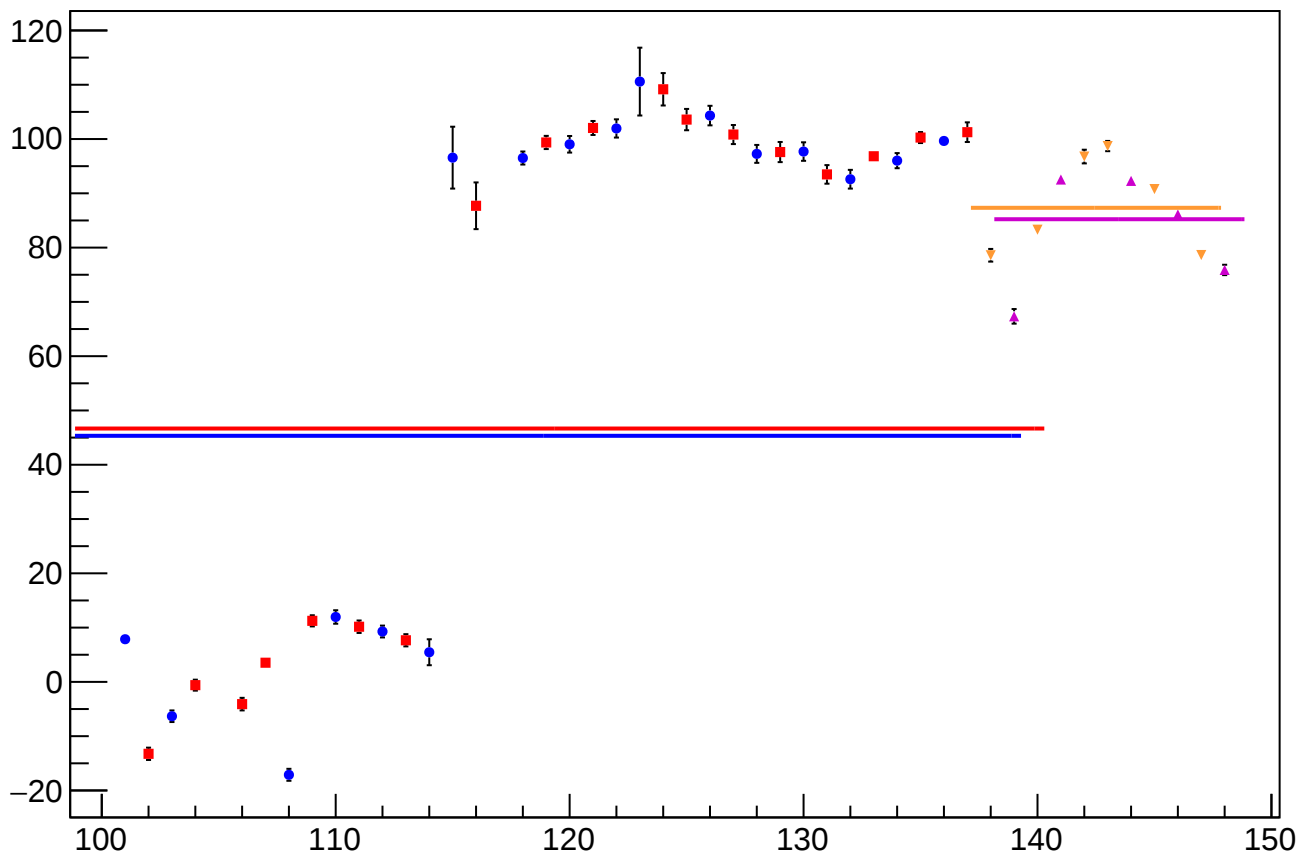
Left In:  $3.136 \pm 0.463$   $\chi^2/\text{NDF}$ : 62.5/4

+ sign  $4.897 \pm 0.323$   $\chi^2/\text{NDF}$ : 372.4/22

All:  $3.394 \pm 0.226$   $\chi^2/\text{NDF}$ : 638.9/45

- sign  $1.967 \pm 0.315$   $\chi^2/\text{NDF}$ : 224.4/22

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.331 $\pm$ 0.304  $\chi^2/\text{NDF}$ : 25006.9/16

Left Out: 87.332 $\pm$ 0.395  $\chi^2/\text{NDF}$ : 387.6/5

Right Out: 46.673 $\pm$ 0.291  $\chi^2/\text{NDF}$ : 27896.8/17

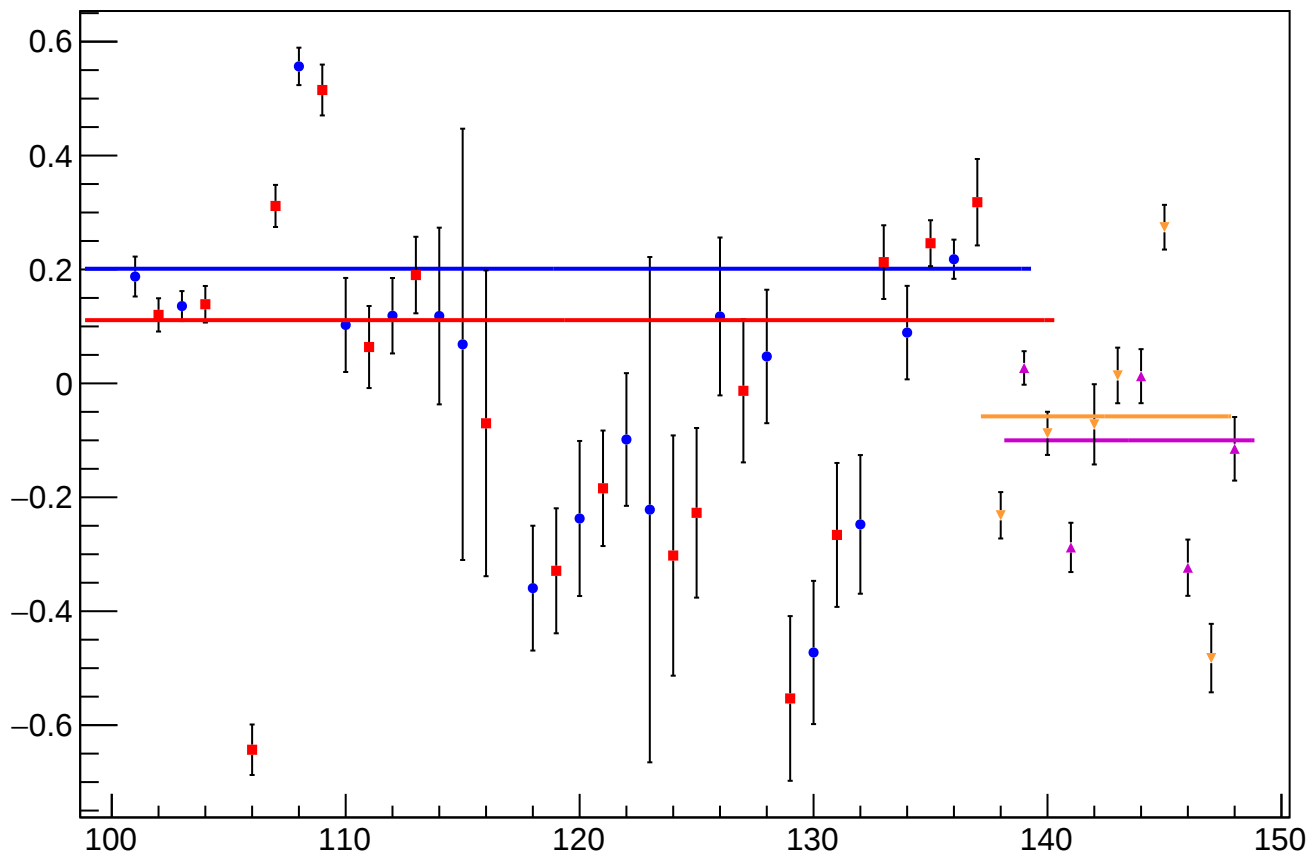
Left In: 85.228 $\pm$ 0.423  $\chi^2/\text{NDF}$ : 409.1/4

+ sign 60.905 $\pm$ 0.241  $\chi^2/\text{NDF}$ : 32491.4/22

All: 59.971 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 66470.2/45

- sign 59.047 $\pm$ 0.240  $\chi^2/\text{NDF}$ : 33949.0/22

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.058 \pm 0.019$   $\chi^2/\text{NDF}$ : 142.5/5

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

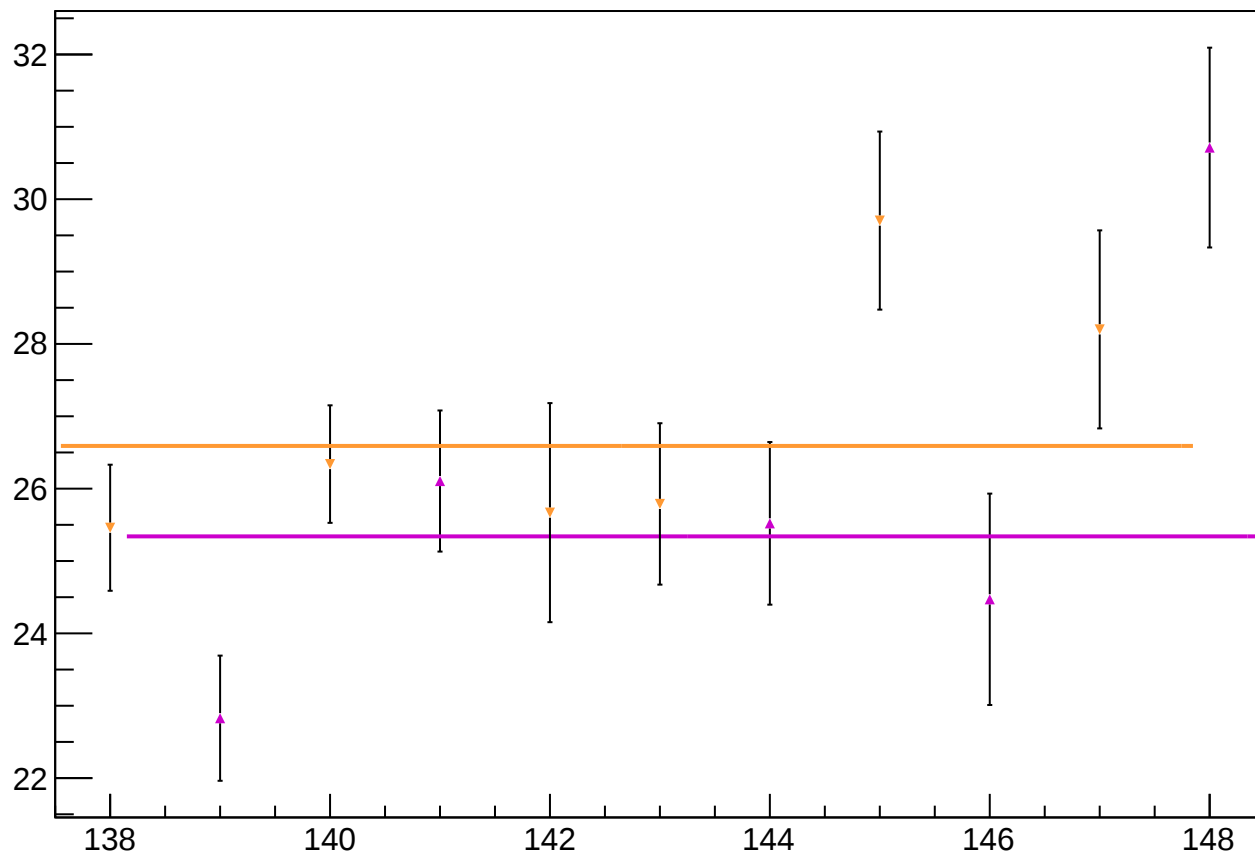
Left In:  $-0.100 \pm 0.019$   $\chi^2/\text{NDF}$ : 63.7/4

+ sign  $0.108 \pm 0.011$   $\chi^2/\text{NDF}$ : 482.2/22

All:  $0.073 \pm 0.008$   $\chi^2/\text{NDF}$ : 1139.4/45

- sign  $0.041 \pm 0.011$   $\chi^2/\text{NDF}$ : 638.6/22

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 26.590+/-0.436  $\chi^2/\text{NDF}$ : 10.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

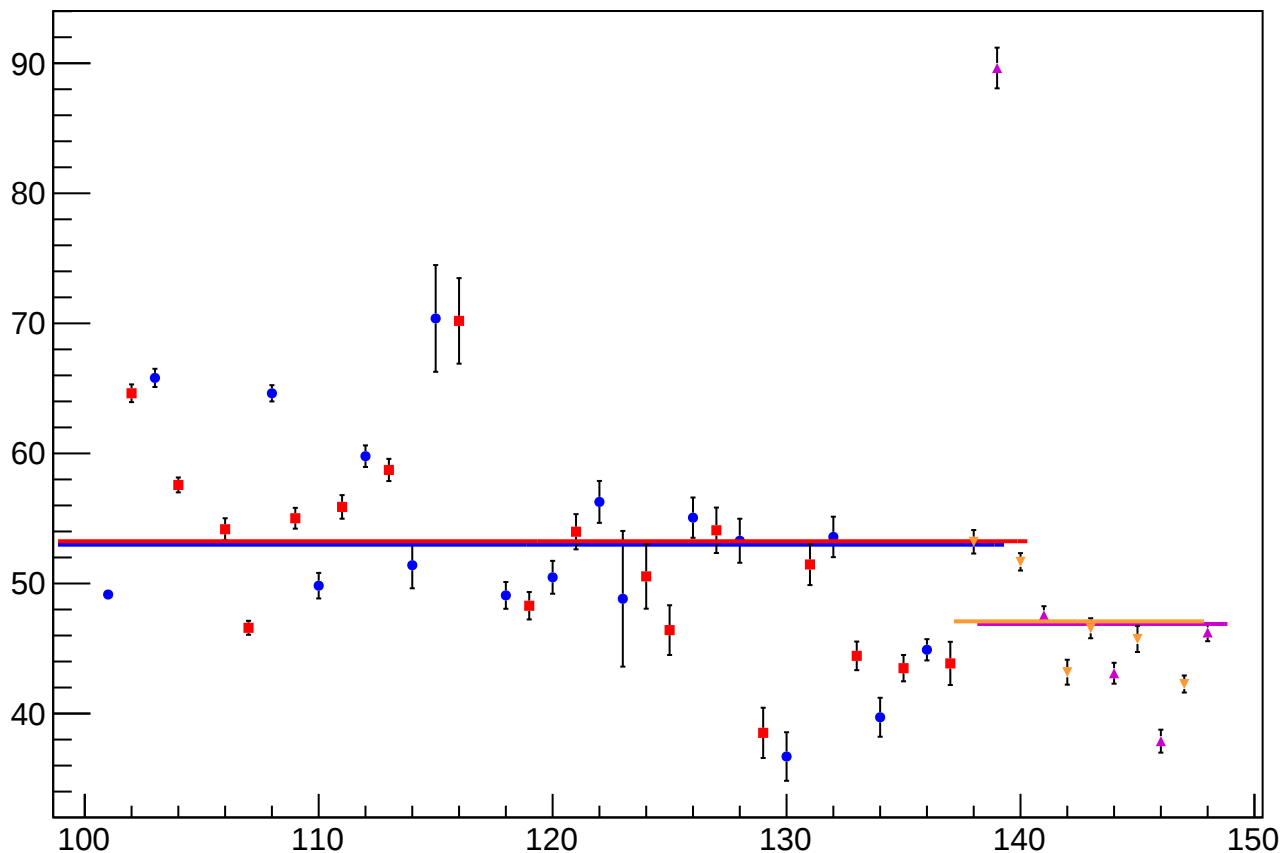
Left In: 25.340+/-0.489  $\chi^2/\text{NDF}$ : 24.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.038+/-0.325  $\chi^2/\text{NDF}$ : 38.7/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 52.985 $\pm$ 0.210  $\chi^2$ /NDF: 1197.9/16

Left Out: 47.087 $\pm$ 0.324  $\chi^2$ /NDF:165.5/5

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

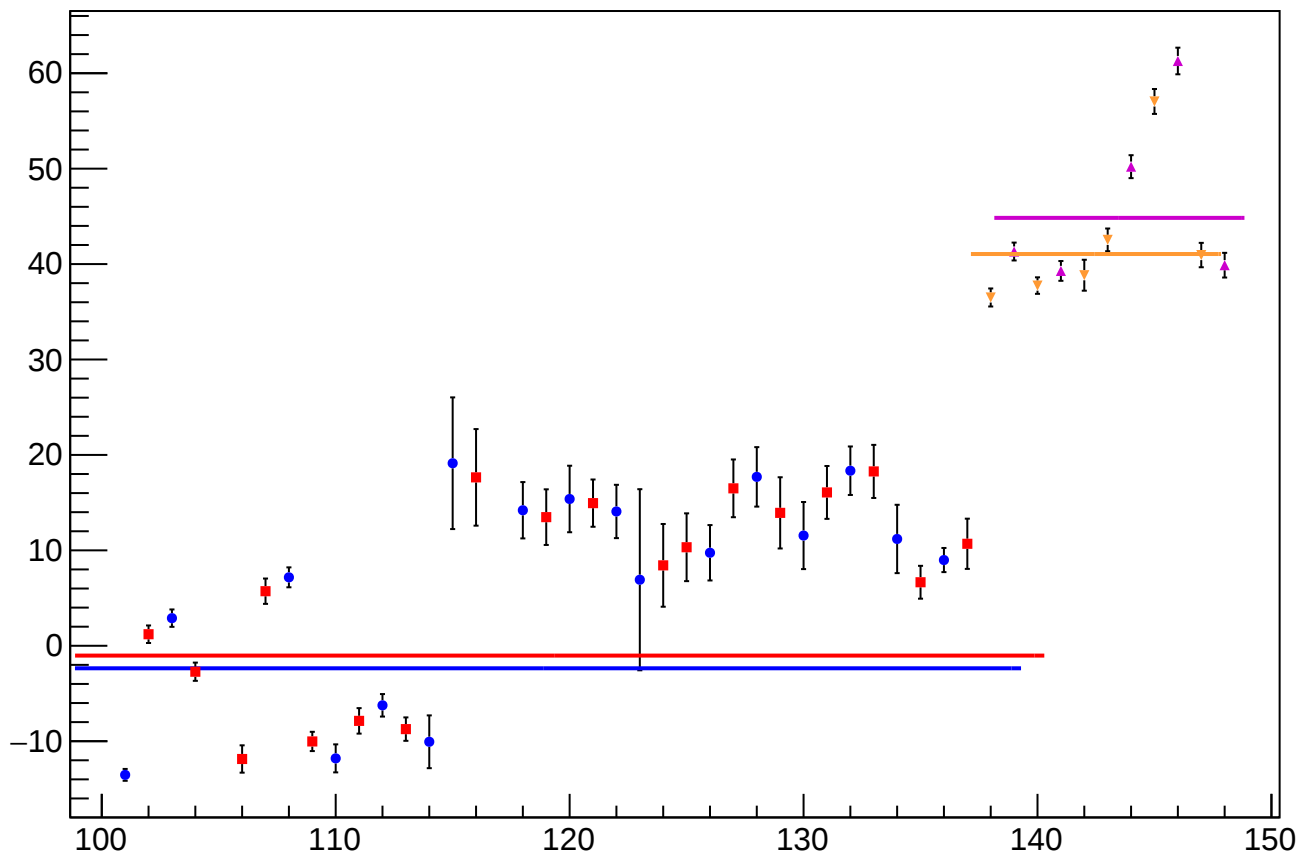
Left In: 46.888 $\pm$ 0.366  $\chi^2$ /NDF:876.2/4

+ sign 51.234 $\pm$ 0.176  $\chi^2$ /NDF: 1596.9/22

All: 51.344 $\pm$ 0.130  $\chi^2$ /NDF: 3548.3/45

- sign 51.475 $\pm$ 0.193  $\chi^2$ /NDF: 1950.6/22

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $41.054 \pm 0.459$   $\chi^2/\text{NDF}$ : 191.4/5

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

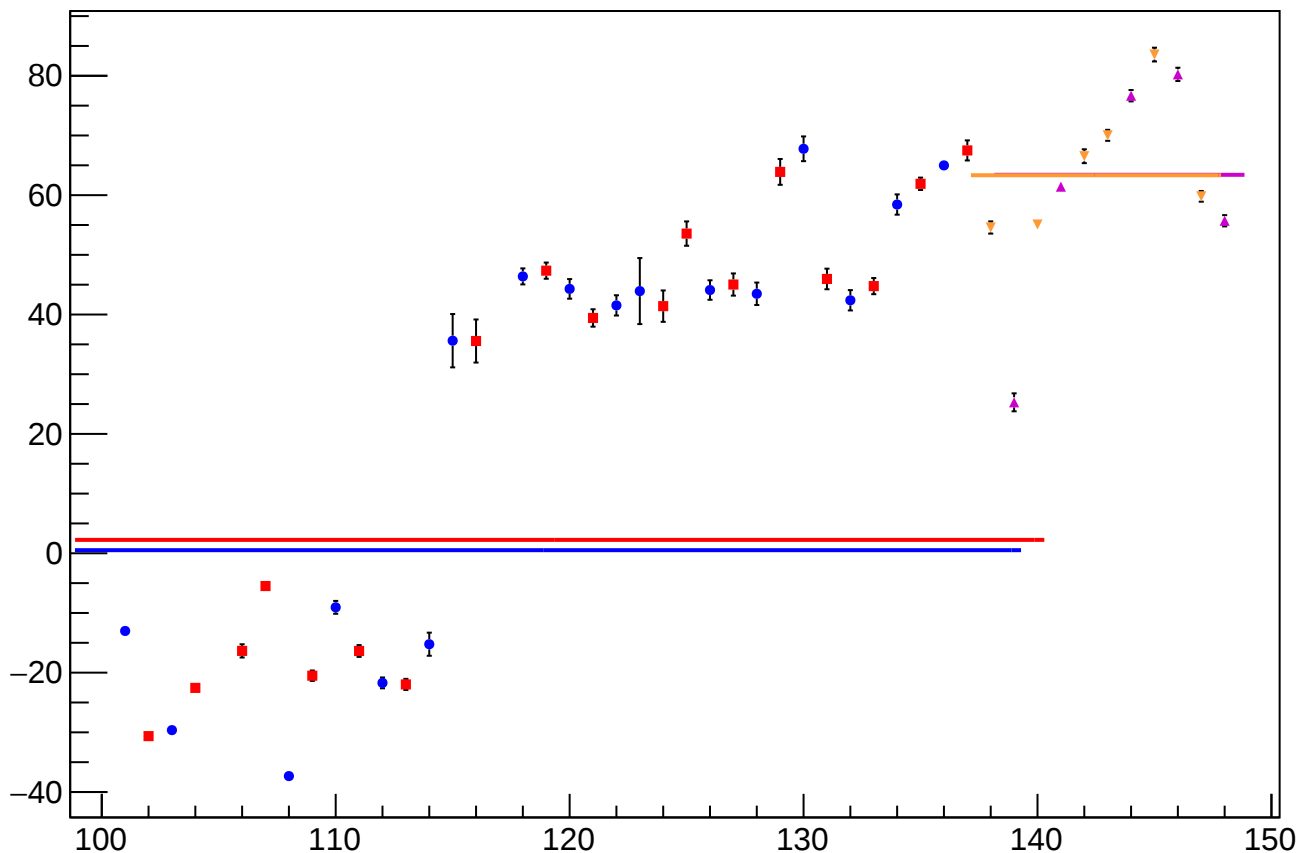
Left In:  $44.842 \pm 0.508$   $\chi^2/\text{NDF}$ : 216.4/4

+ sign  $14.403 \pm 0.285$   $\chi^2/\text{NDF}$ : 6517.6/22

All:  $14.889 \pm 0.208$   $\chi^2/\text{NDF}$ : 12472.8/45

- sign  $15.441 \pm 0.304$   $\chi^2/\text{NDF}$ : 5949.0/22

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In: 0.518+/-0.247  $\chi^2/\text{NDF}$ : 18386.0/16

Left Out: 63.336+/-0.395  $\chi^2/\text{NDF}$ : 559.1/5

Right Out: 2.246+/-0.267  $\chi^2/\text{NDF}$ : 15377.0/17

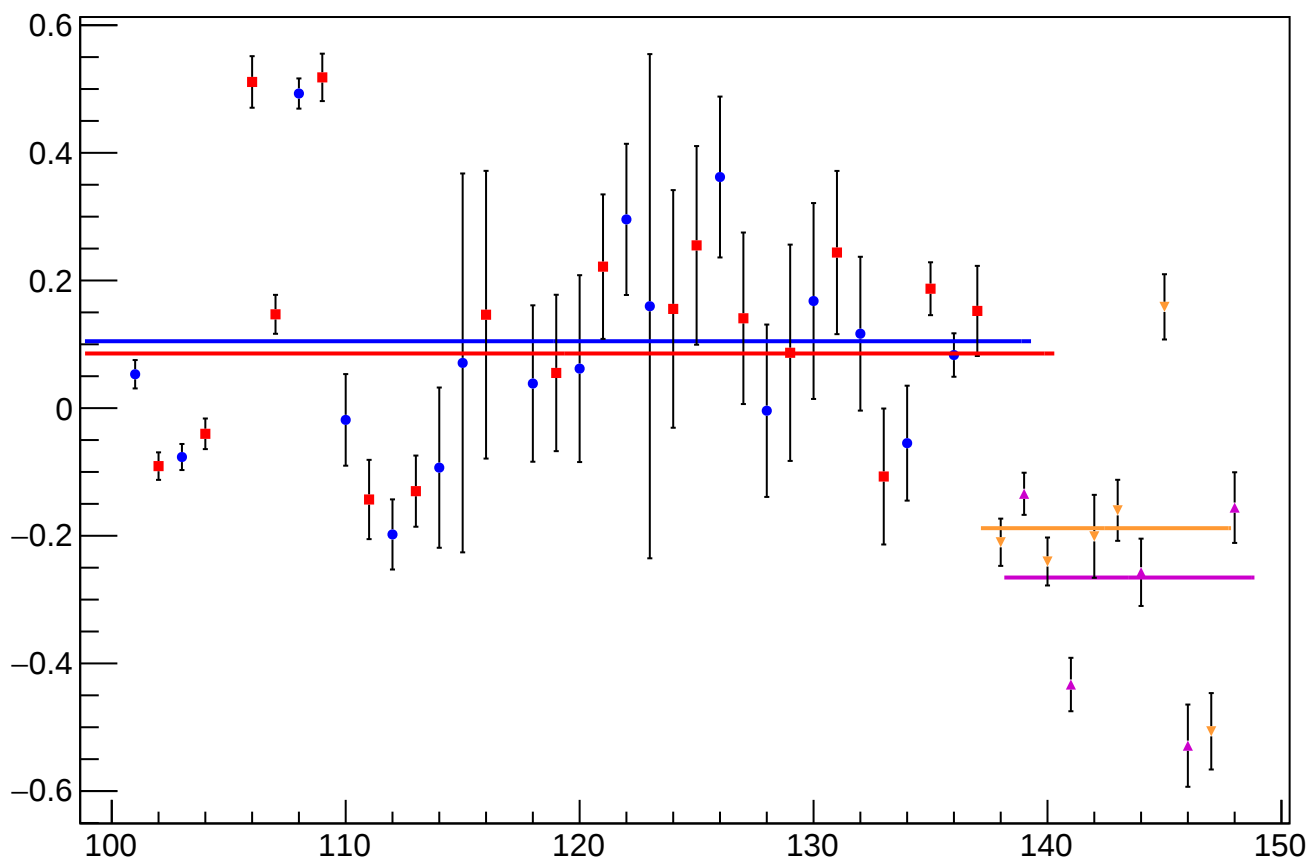
Left In: 63.409+/-0.451  $\chi^2/\text{NDF}$ : 1138.0/4

+ sign 18.138+/-0.209  $\chi^2/\text{NDF}$ : 37098.2/22

All: 18.137+/-0.155  $\chi^2/\text{NDF}$ : 67205.5/45

- sign 18.137+/-0.230  $\chi^2/\text{NDF}$ : 30107.2/22

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.188 \pm 0.019$   $\chi^2/\text{NDF}$ : 76.9/5

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}$ : 388.3/17

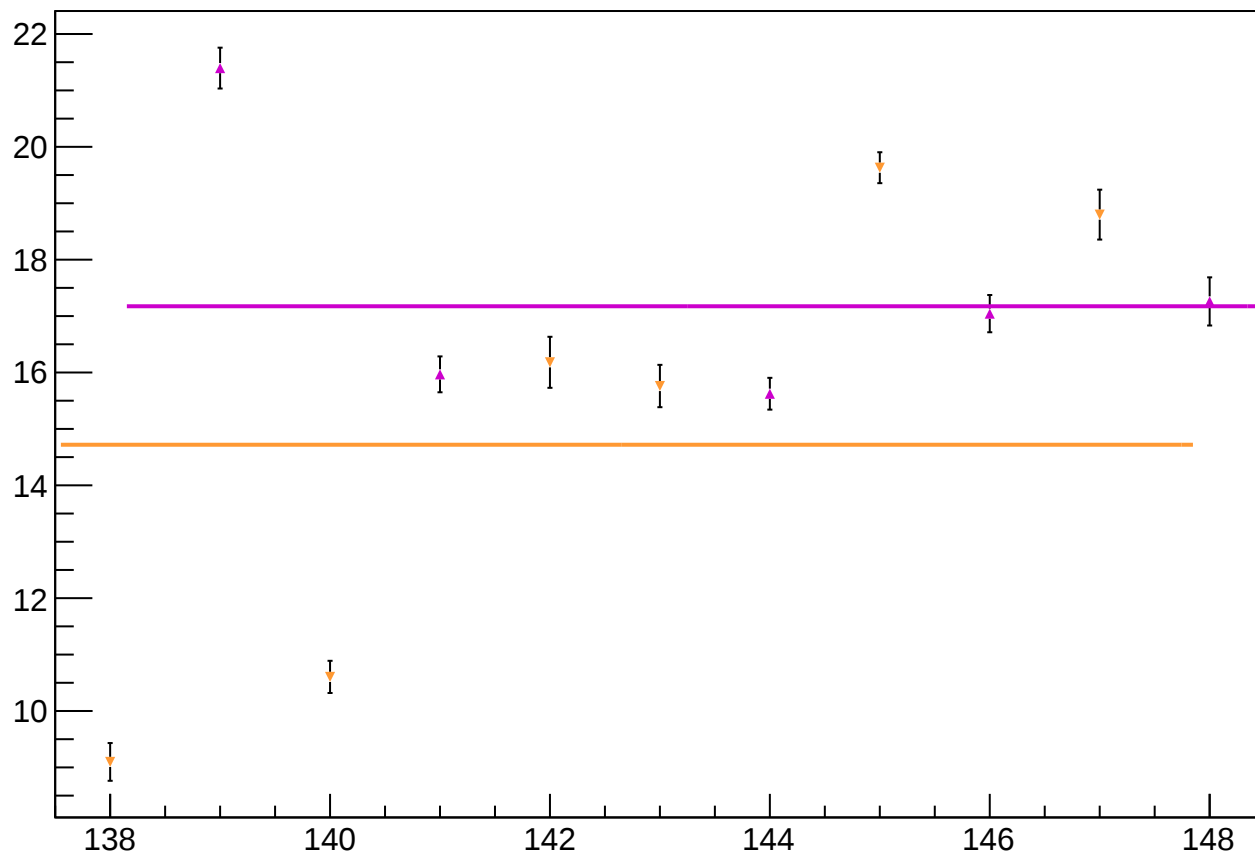
Left In:  $-0.265 \pm 0.020$   $\chi^2/\text{NDF}$ : 52.5/4

+ sign  $0.031 \pm 0.010$   $\chi^2/\text{NDF}$ : 655.6/22

All:  $0.018 \pm 0.007$   $\chi^2/\text{NDF}$ : 1329.6/45

- sign  $0.005 \pm 0.010$   $\chi^2/\text{NDF}$ : 670.4/22

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.720+/-0.139  $\chi^2/\text{NDF}$ : 914.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

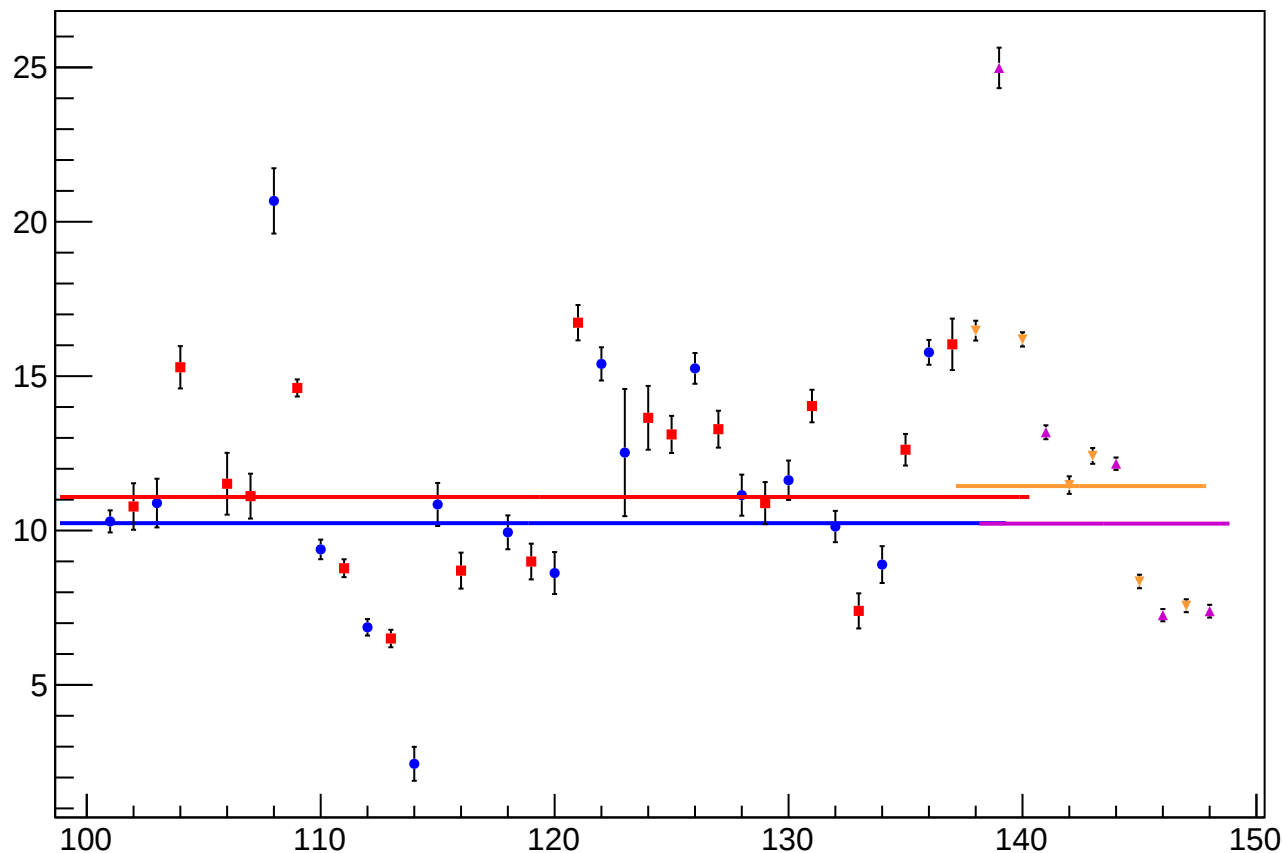
Left In: 17.174+/-0.149  $\chi^2/\text{NDF}$ : 180.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

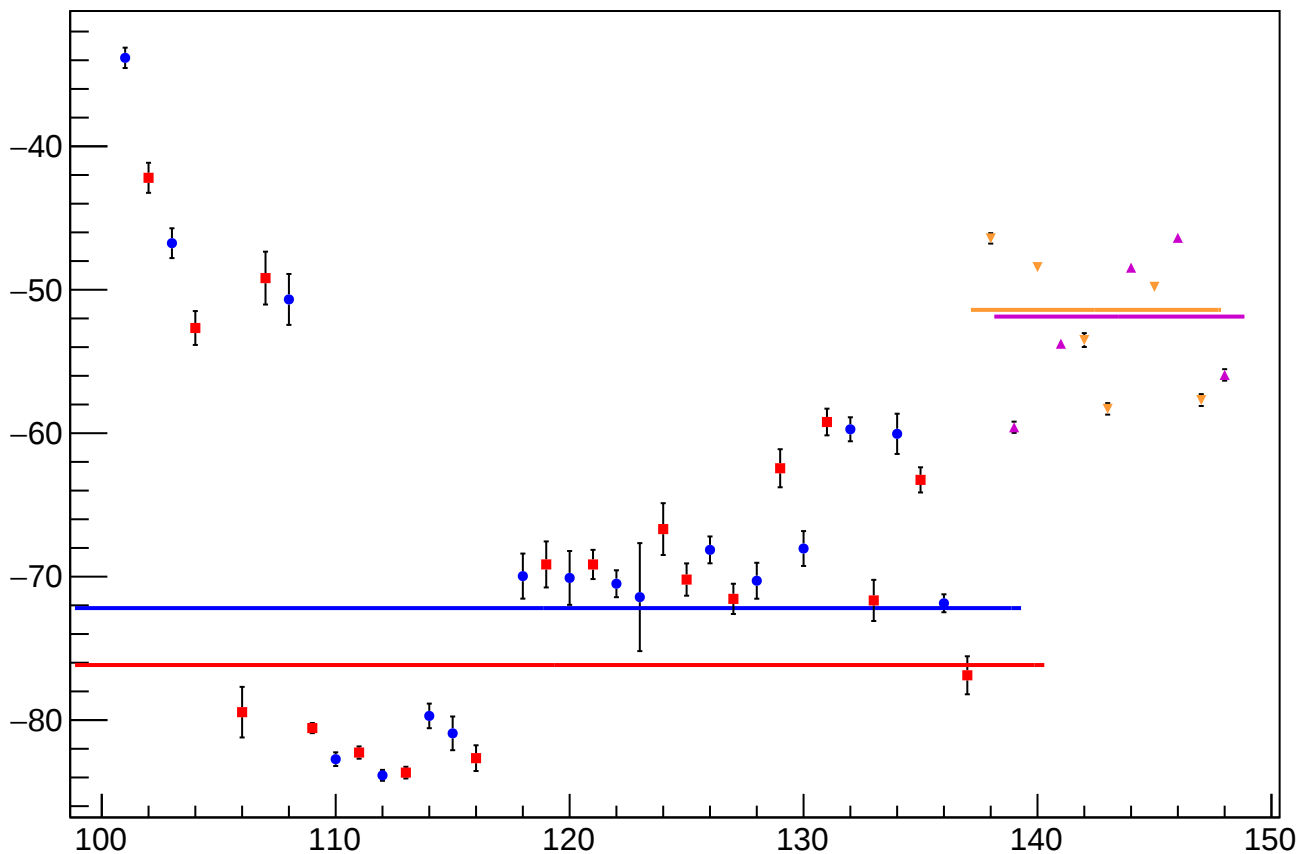
All: 15.860+/-0.102  $\chi^2/\text{NDF}$ : 1239.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}$ : 5563.0/16

Left Out:  $-51.402 \pm 0.147$   $\chi^2/\text{NDF}$ : 863.5/5

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}$ : 3223.3/17

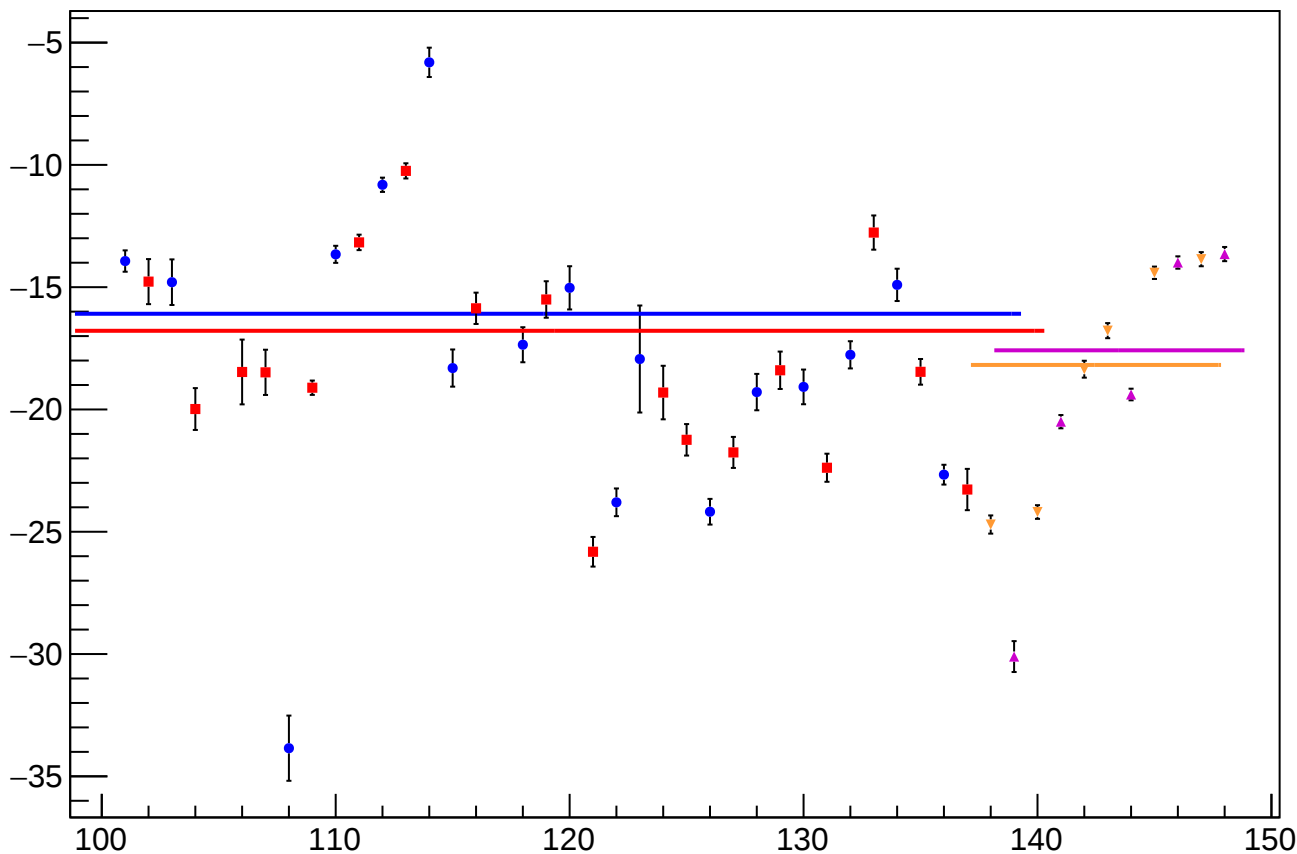
Left In:  $-51.871 \pm 0.153$   $\chi^2/\text{NDF}$ : 951.0/4

+ sign  $-58.759 \pm 0.118$   $\chi^2/\text{NDF}$ : 13540.2/22

All:  $-60.397 \pm 0.083$   $\chi^2/\text{NDF}$ : 28561.1/45

- sign  $-62.013 \pm 0.117$   $\chi^2/\text{NDF}$ : 14637.4/22

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.087 \pm 0.132$   $\chi^2/\text{NDF}$ : 1621.7/16

Left Out:  $-18.180 \pm 0.123$   $\chi^2/\text{NDF}$ : 1234.5/5

Right Out:  $-16.783 \pm 0.128$   $\chi^2/\text{NDF}$ : 1204.4/17

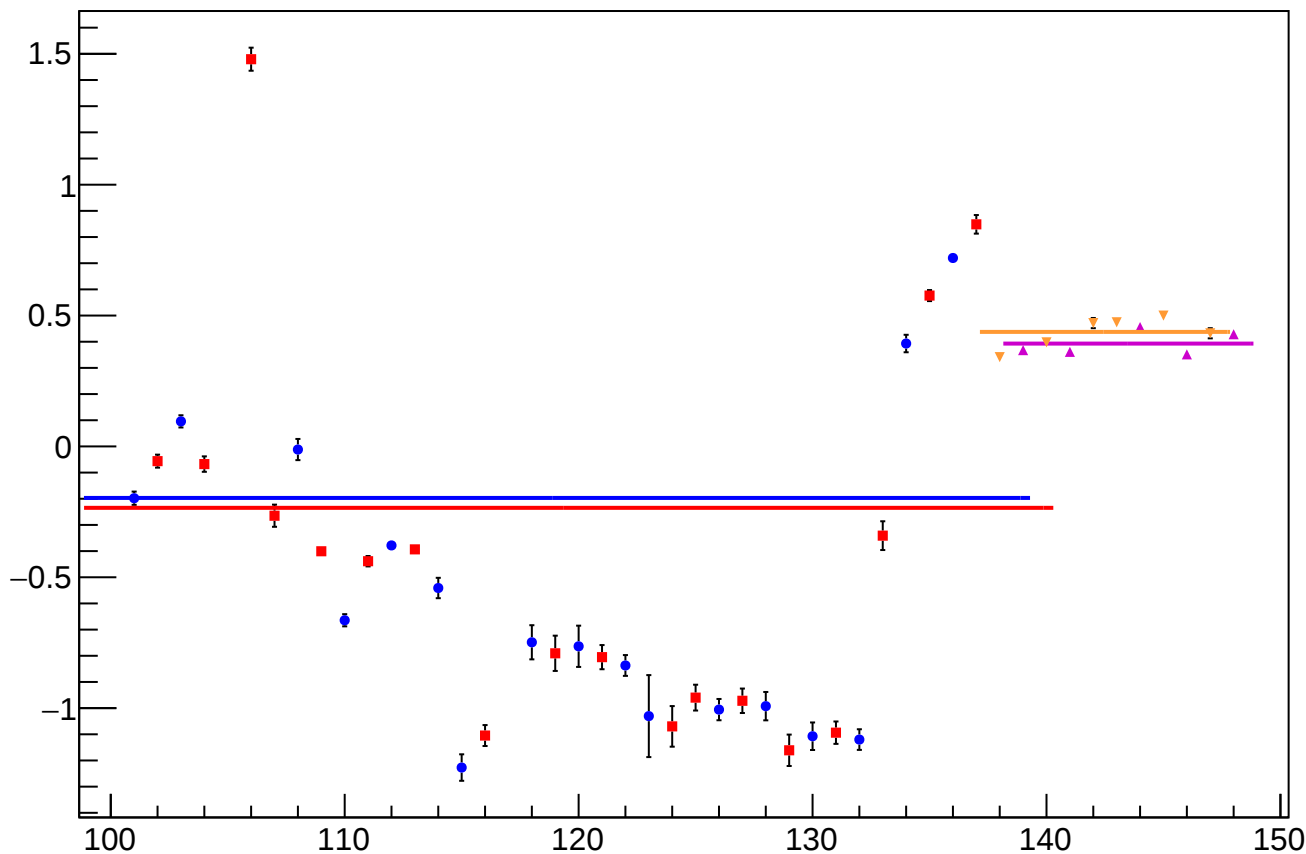
Left In:  $-17.582 \pm 0.128$   $\chi^2/\text{NDF}$ : 950.4/4

+ sign  $-17.213 \pm 0.090$   $\chi^2/\text{NDF}$ : 2990.5/22

All:  $-17.198 \pm 0.064$   $\chi^2/\text{NDF}$ : 5164.8/45

- sign  $-17.184 \pm 0.091$   $\chi^2/\text{NDF}$ : 2174.3/22

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.438 \pm 0.006$   $\chi^2/\text{NDF}$ : 91.5/5

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

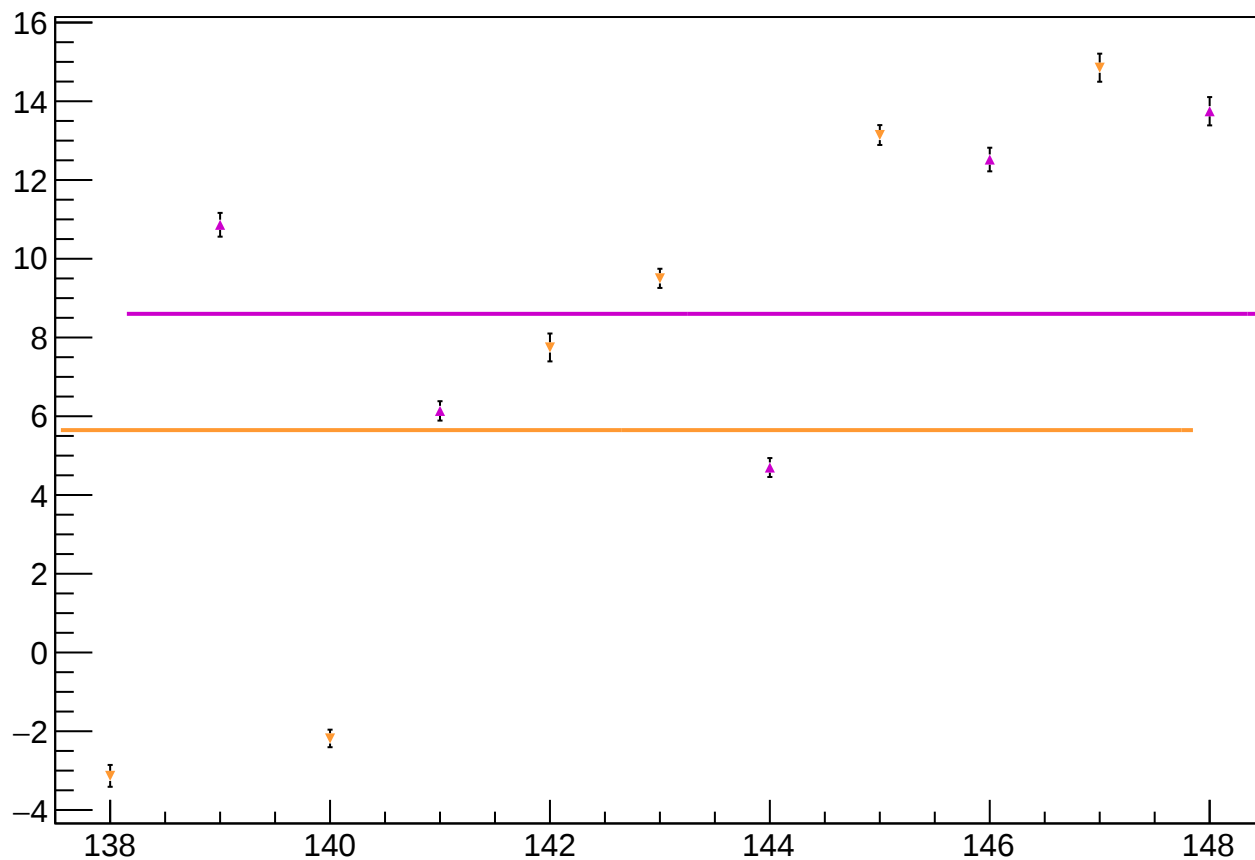
Left In:  $0.393 \pm 0.006$   $\chi^2/\text{NDF}$ : 44.0/4

+ sign  $0.189 \pm 0.005$   $\chi^2/\text{NDF}$ : 10717.8/22

All:  $0.153 \pm 0.003$   $\chi^2/\text{NDF}$ : 21337.0/45

- sign  $0.115 \pm 0.005$   $\chi^2/\text{NDF}$ : 10499.0/22

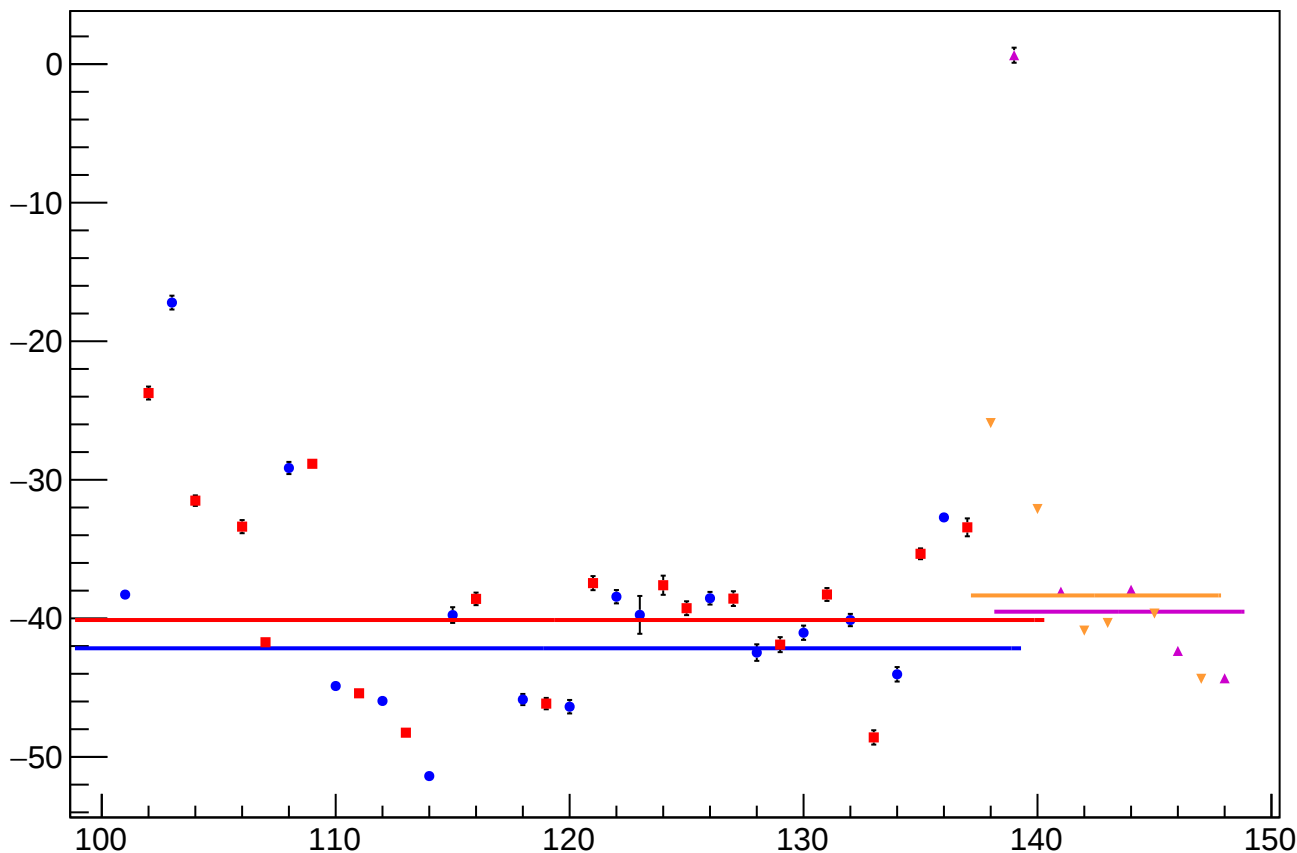
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 5.648 $\pm$ 0.111  $\chi^2$ /NDF: 4071.4/5  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 8.601 $\pm$ 0.125  $\chi^2$ /NDF: 795.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
All: 6.942 $\pm$ 0.083  $\chi^2$ /NDF: 5178.9/10  
- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-42.160 \pm 0.078$   $\chi^2/\text{NDF}: 6570.6/16$

Left Out:  $-38.346 \pm 0.079$   $\chi^2/\text{NDF}: 4889.7/5$

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}: 10884.6/17$

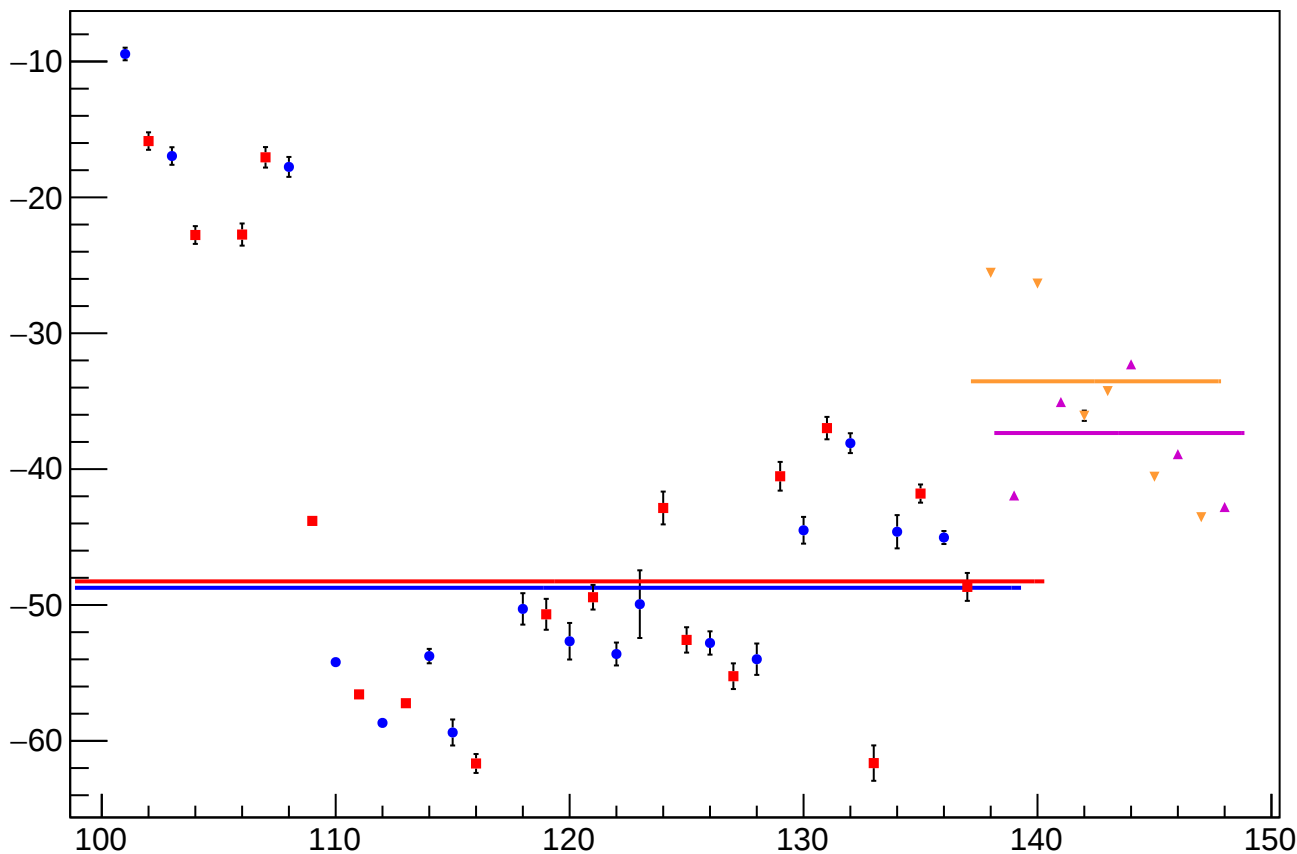
Left In:  $-39.519 \pm 0.087$   $\chi^2/\text{NDF}: 6569.3/4$

+ sign  $-40.288 \pm 0.056$   $\chi^2/\text{NDF}: 12636.3/22$

All:  $-40.082 \pm 0.039$   $\chi^2/\text{NDF}: 30145.9/45$

- sign  $-39.873 \pm 0.056$   $\chi^2/\text{NDF}: 17481.9/22$

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In: -48.733 $\pm$ 0.125  $\chi^2/\text{NDF}$ : 14659.4/16

Left Out: -33.537 $\pm$ 0.117  $\chi^2/\text{NDF}$ : 3264.8/5

Right Out: -48.261 $\pm$ 0.107  $\chi^2/\text{NDF}$ : 11091.7/17

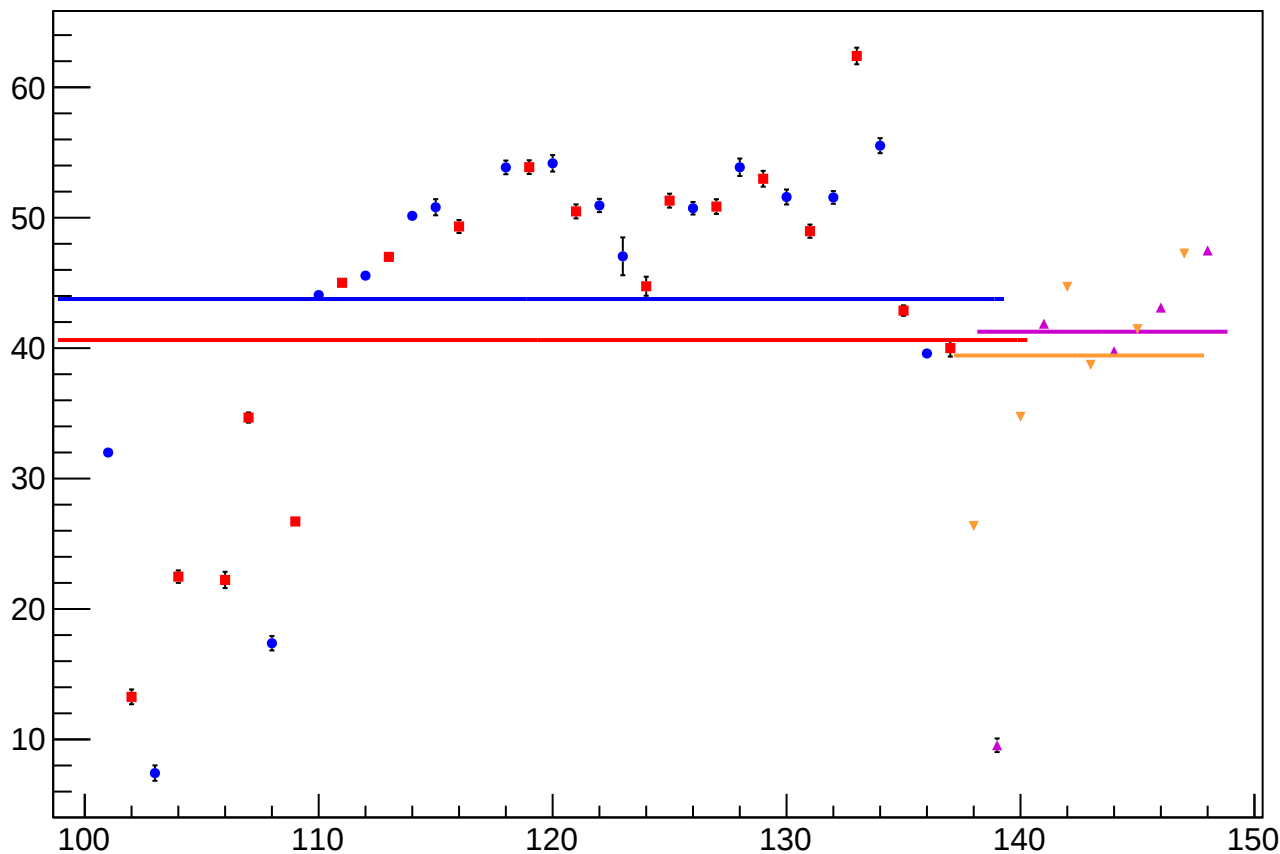
Left In: -37.344 $\pm$ 0.129  $\chi^2/\text{NDF}$ : 950.3/4

+ sign -40.627 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 25847.5/22

All: -42.260 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 42825.5/45

- sign -43.796 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 16264.9/22

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In: 43.767 $\pm$ 0.087  $\chi^2$ /NDF: 10633.5/16

Left Out: 39.437 $\pm$ 0.097  $\chi^2$ /NDF: 3816.4/5

Right Out: 40.620 $\pm$ 0.080  $\chi^2$ /NDF: 16957.4/17

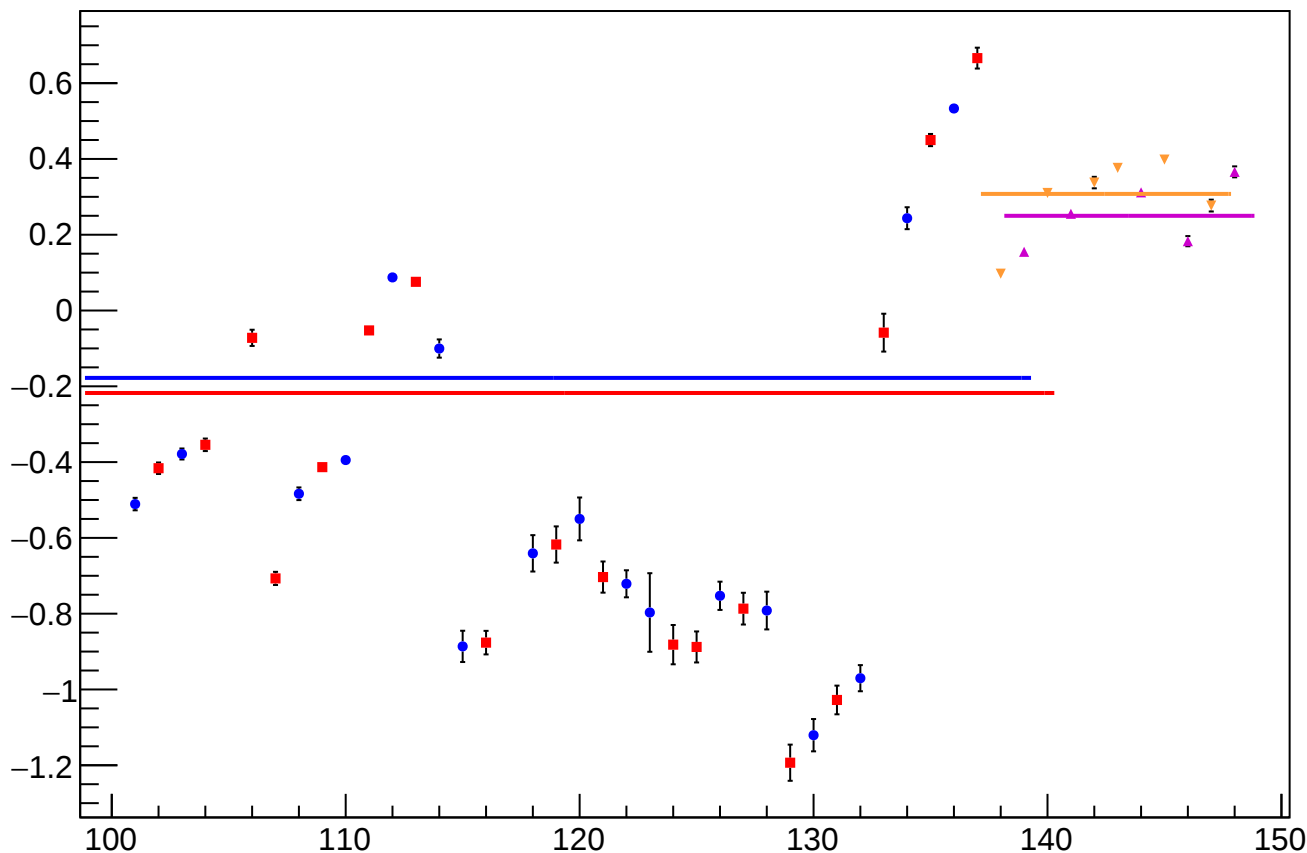
Left In: 41.259 $\pm$ 0.108  $\chi^2$ /NDF: 4429.0/4

+ sign 41.843 $\pm$ 0.065  $\chi^2$ /NDF: 15555.2/22

All: 41.343 $\pm$ 0.046  $\chi^2$ /NDF: 37083.0/45

- sign 40.847 $\pm$ 0.064  $\chi^2$ /NDF: 21408.8/22

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.308 \pm 0.005$   $\chi^2/\text{NDF}$ : 435.7/5

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

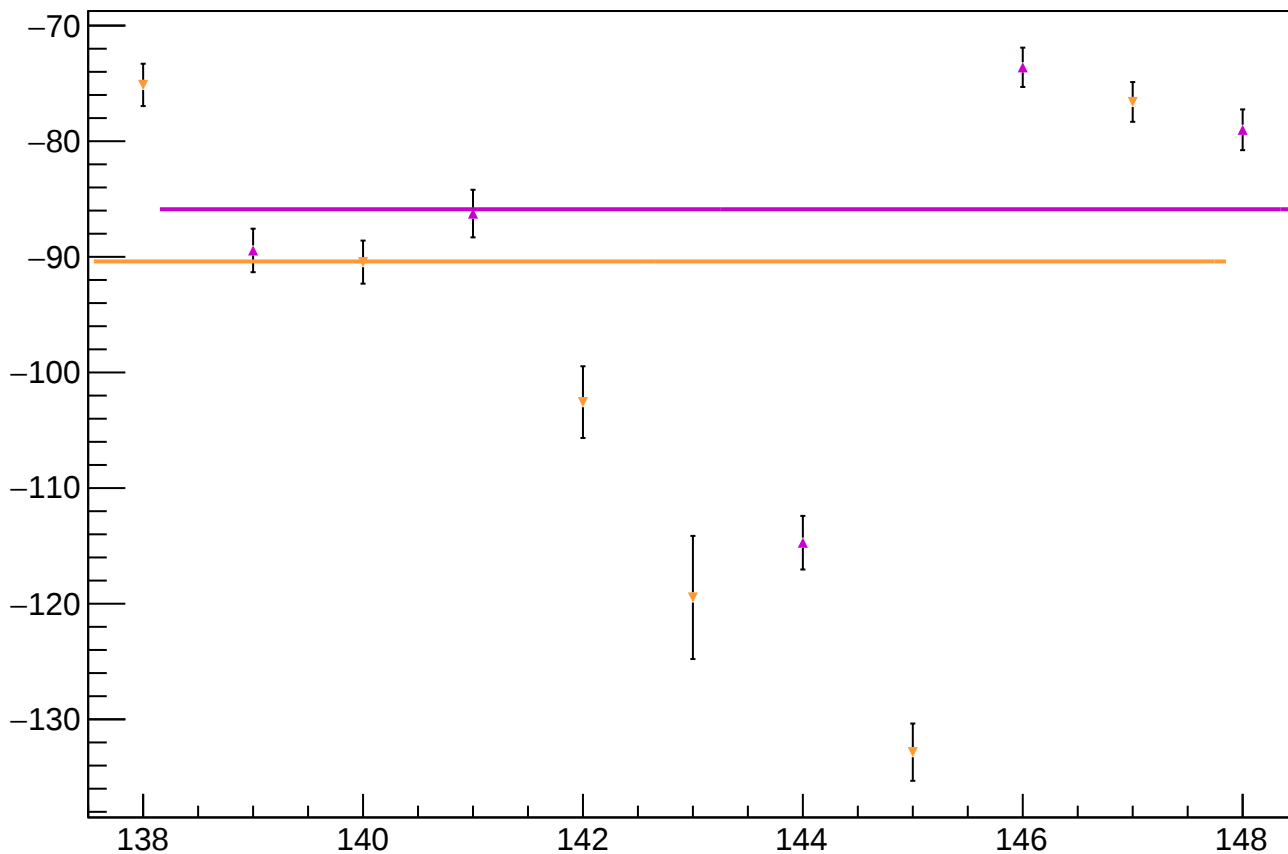
Left In:  $0.250 \pm 0.005$   $\chi^2/\text{NDF}$ : 188.1/4

+ sign  $0.066 \pm 0.003$   $\chi^2/\text{NDF}$ : 12846.9/22

All:  $0.015 \pm 0.002$   $\chi^2/\text{NDF}$ : 25540.4/45

- sign  $-0.034 \pm 0.003$   $\chi^2/\text{NDF}$ : 12258.9/22

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -90.399+/-0.903  $\chi^2/\text{NDF}$ : 473.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

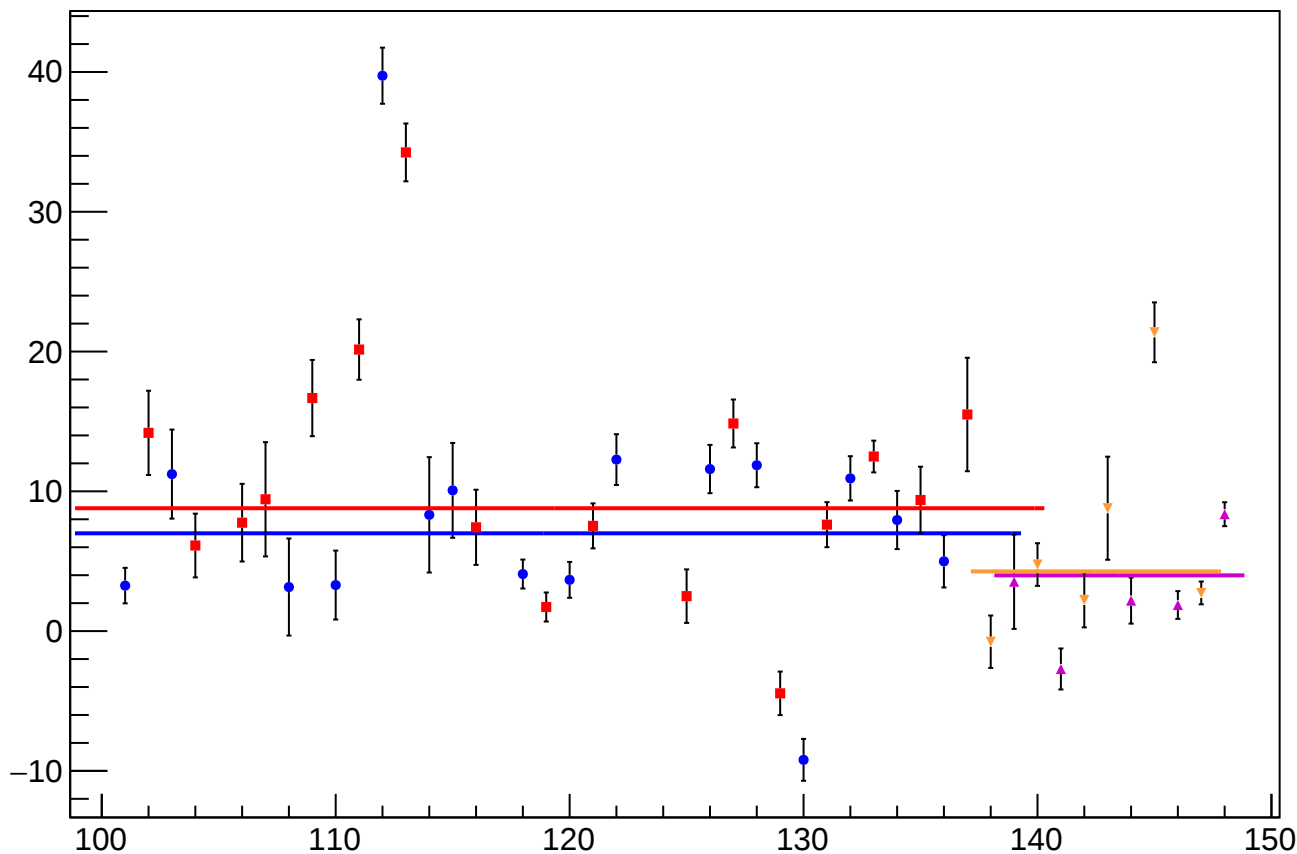
Left In: -85.884+/-0.853  $\chi^2/\text{NDF}$ : 225.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -88.015+/-0.620  $\chi^2/\text{NDF}$ : 712.1/10

- 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: 4.272 $\pm$ 0.601  $\chi^2/\text{NDF}$ : 77.4/5

Right Out: 8.790 $\pm$ 0.449  $\chi^2/\text{NDF}$ : 348.8/16

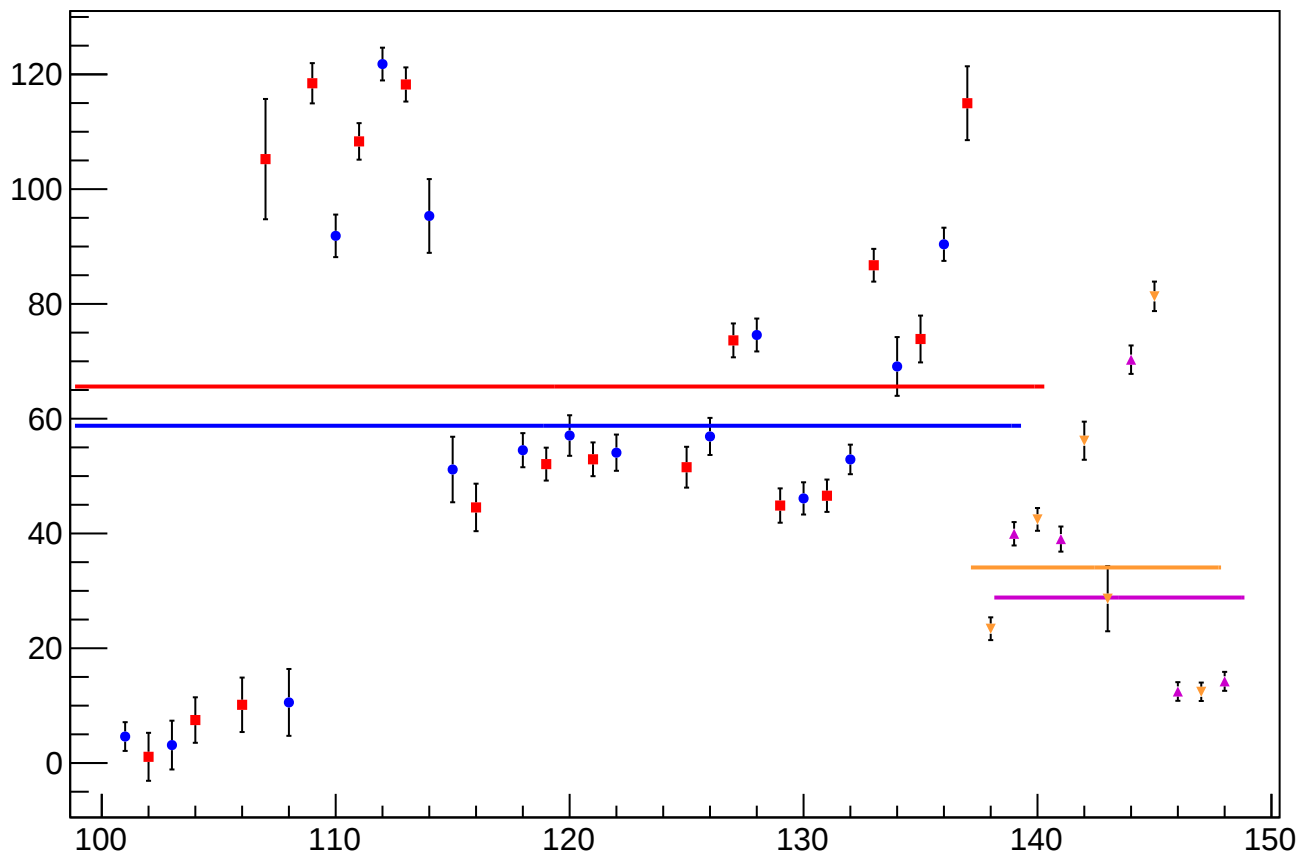
Left In: 3.988 $\pm$ 0.550  $\chi^2/\text{NDF}$ : 52.7/4

+ sign 6.062 $\pm$ 0.352  $\chi^2/\text{NDF}$ : 536.2/21

All: 6.470 $\pm$ 0.247  $\chi^2/\text{NDF}$ : 986.1/43

- sign 6.869 $\pm$ 0.348  $\chi^2/\text{NDF}$ : 447.2/21

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In:  $58.770 \pm 0.833$   $\chi^2/\text{NDF}: 1493.3/15$

Left Out:  $34.077 \pm 0.925$   $\chi^2/\text{NDF}: 612.2/5$

Right Out:  $65.606 \pm 0.845$   $\chi^2/\text{NDF}: 1625.3/16$

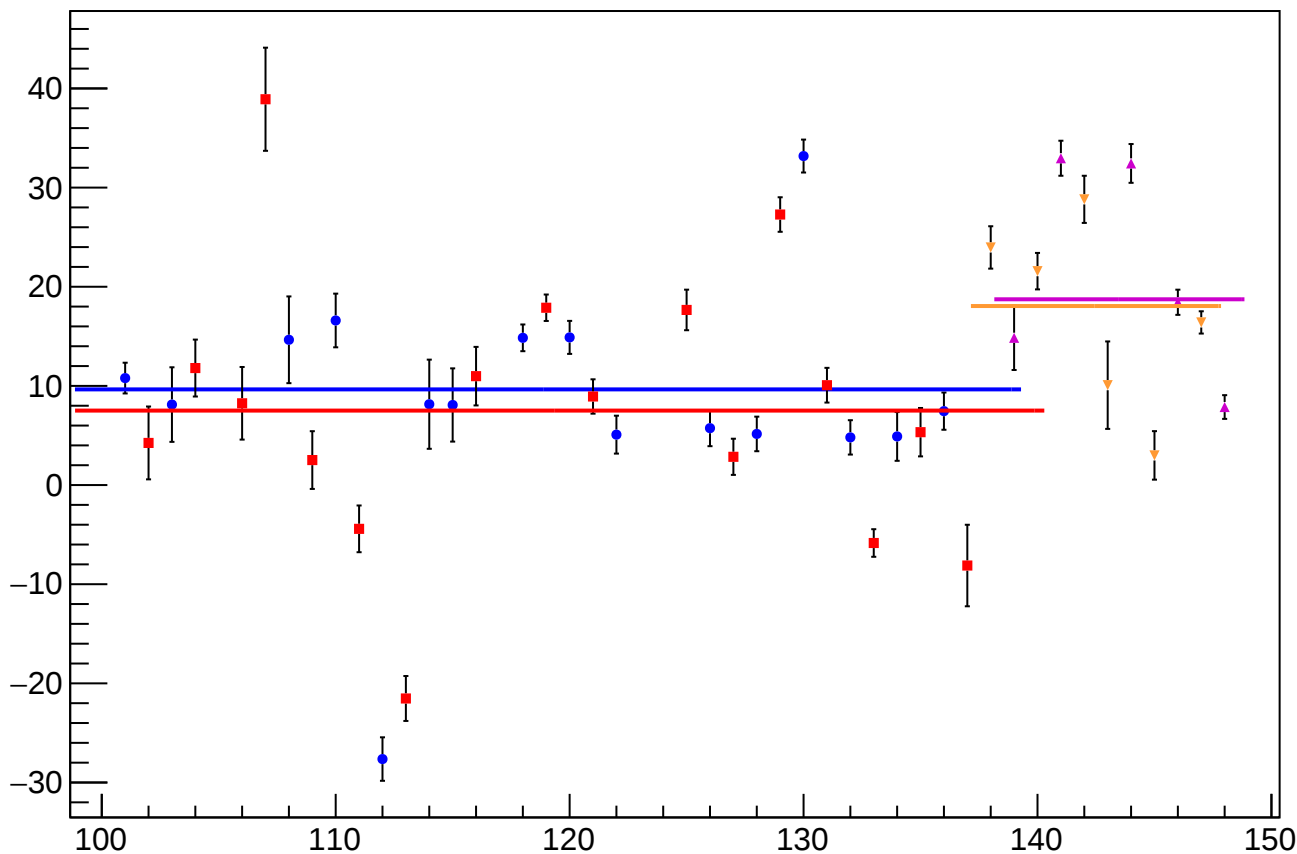
Left In:  $28.837 \pm 0.858$   $\chi^2/\text{NDF}: 510.7/4$

+ sign  $47.709 \pm 0.619$   $\chi^2/\text{NDF}: 2499.3/21$

All:  $47.609 \pm 0.432$   $\chi^2/\text{NDF}: 5567.6/43$

- sign  $47.515 \pm 0.602$   $\chi^2/\text{NDF}: 3068.3/21$

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In: 9.648 $\pm$ 0.502  $\chi^2/\text{NDF}$ : 553.6/15

Left Out: 18.055 $\pm$ 0.766  $\chi^2/\text{NDF}$ : 75.1/5

Right Out: 7.511 $\pm$ 0.516  $\chi^2/\text{NDF}$ : 564.3/16

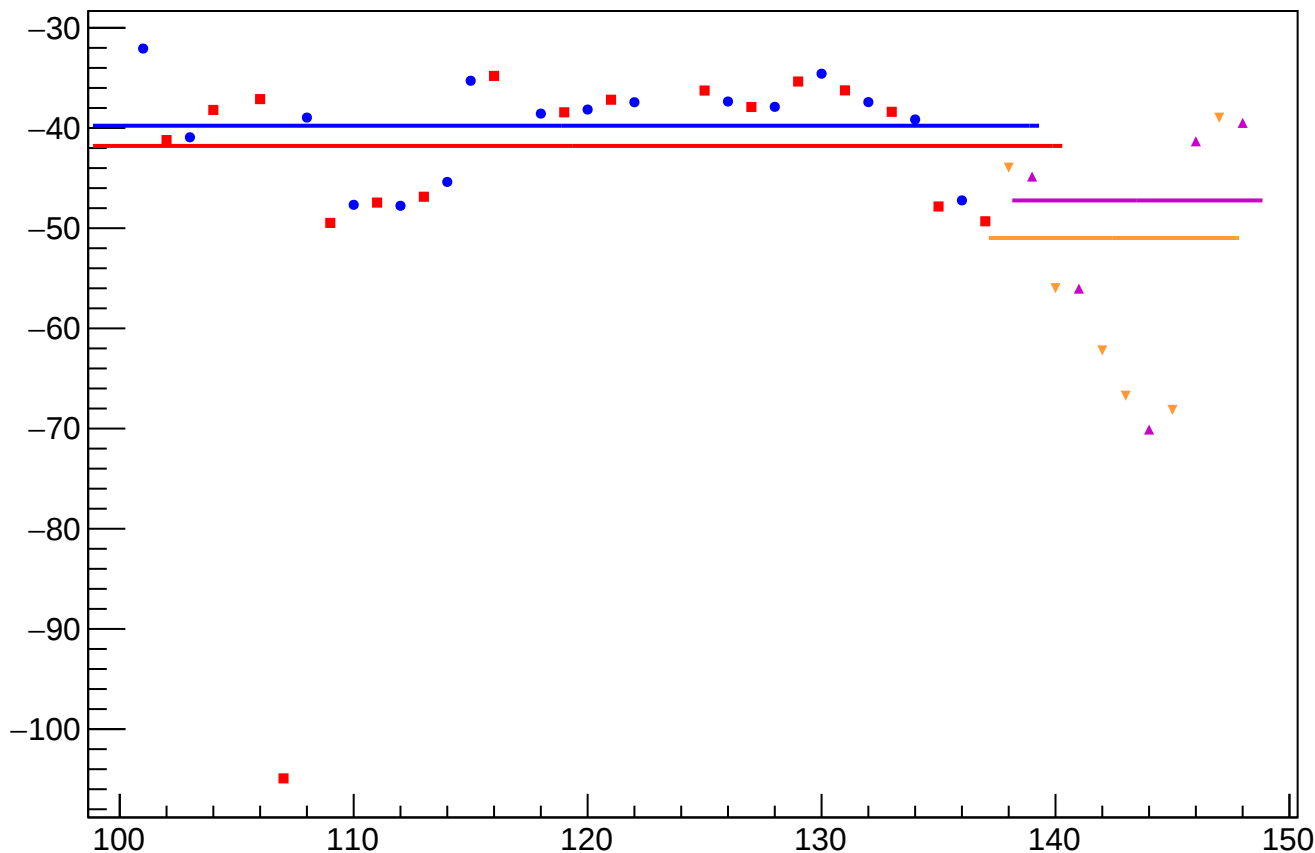
Left In: 18.735 $\pm$ 0.708  $\chi^2/\text{NDF}$ : 197.9/4

+ sign 12.172 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 712.9/21

All: 11.788 $\pm$ 0.296  $\chi^2/\text{NDF}$ : 1640.8/43

- sign 11.410 $\pm$ 0.417  $\chi^2/\text{NDF}$ : 926.3/21

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-50.979 \pm 0.039$   $\chi^2/\text{NDF}$ : 77003.6/5

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

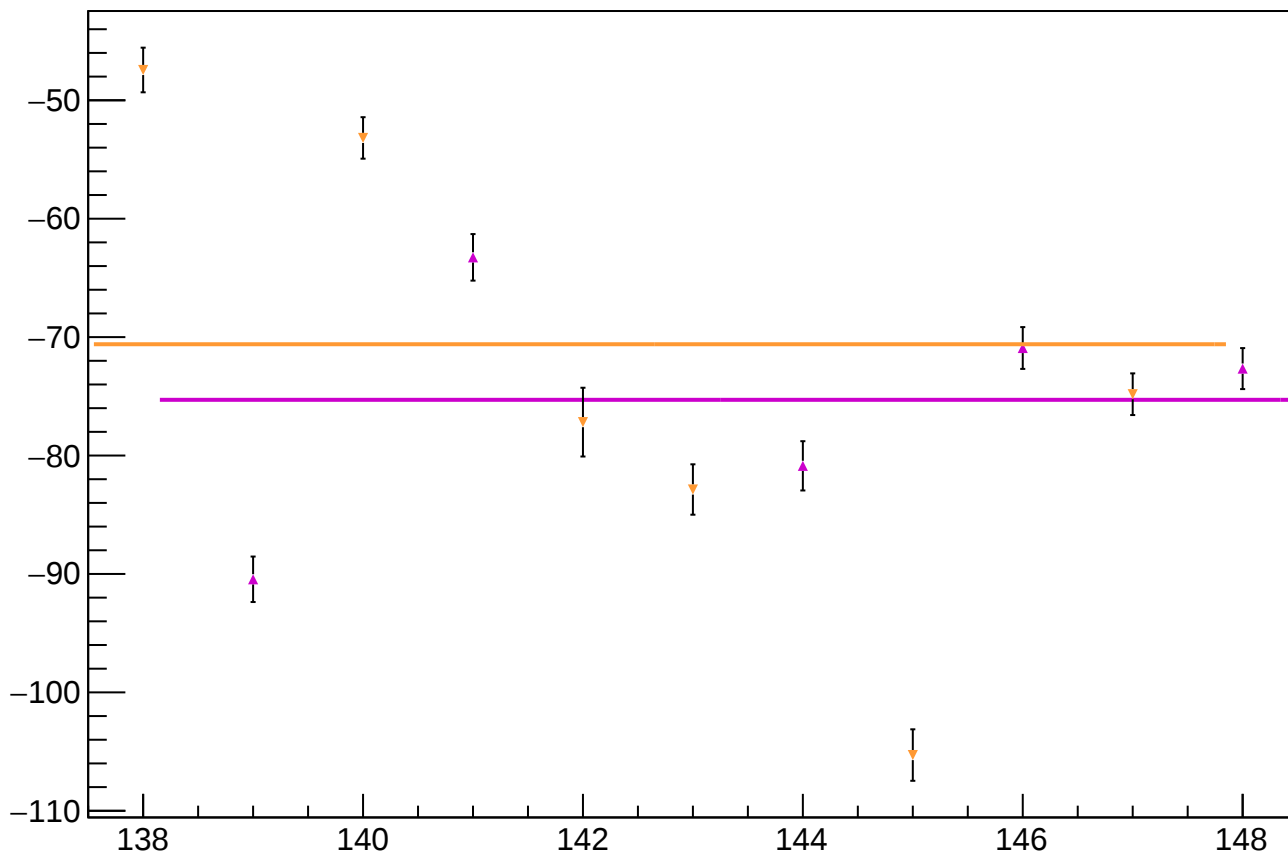
Left In:  $-47.229 \pm 0.036$   $\chi^2/\text{NDF}$ : 73383.9/4

+ sign  $-44.077 \pm 0.024$   $\chi^2/\text{NDF}$ : 153064.6/21

All:  $-44.121 \pm 0.017$   $\chi^2/\text{NDF}$ : 332568.8/43

- sign  $-44.162 \pm 0.024$   $\chi^2/\text{NDF}$ : 179497.9/21

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -70.601+/-0.822  $\chi^2/\text{NDF}$ : 548.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

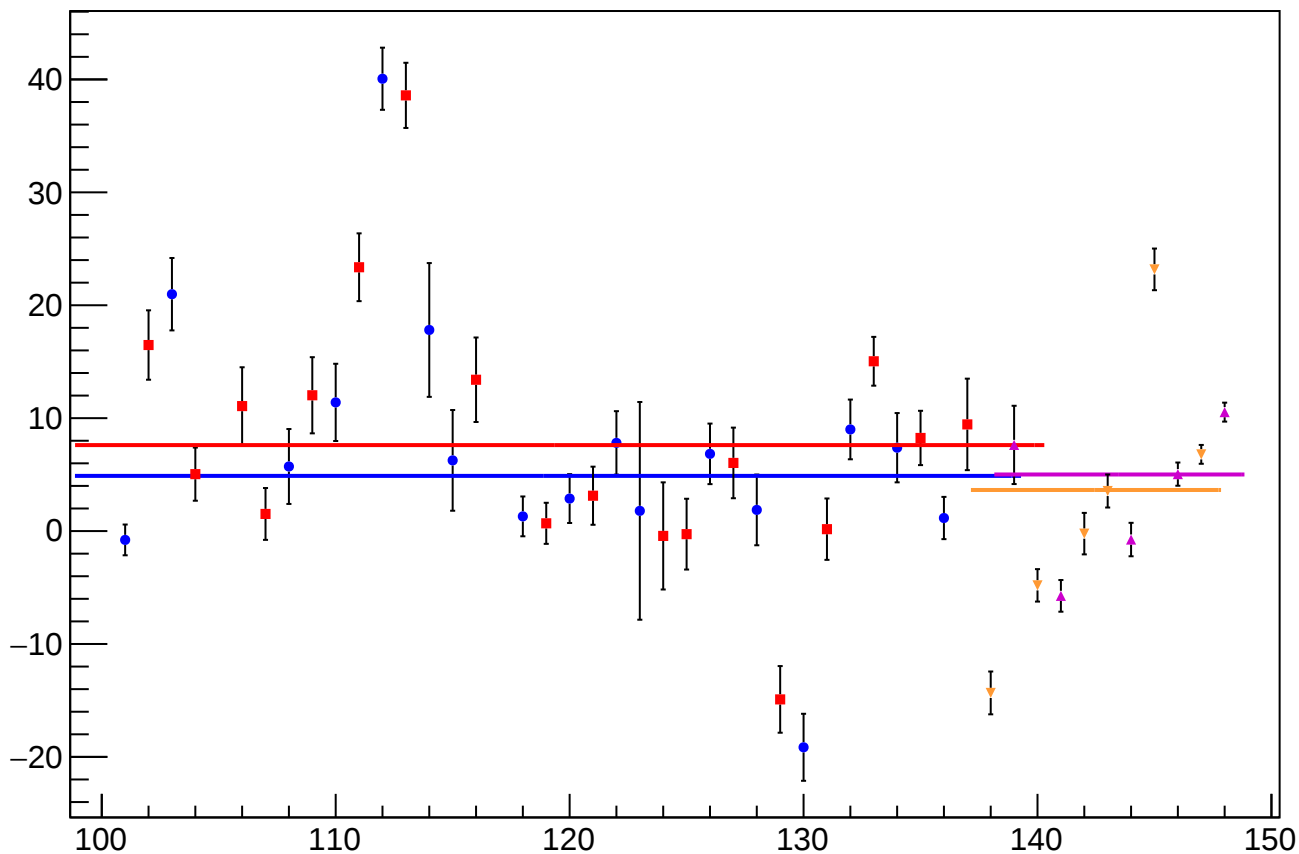
Left In: -75.295+/-0.840  $\chi^2/\text{NDF}$ : 115.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -72.895+/-0.588  $\chi^2/\text{NDF}$ : 680.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.888 \pm 0.622$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $3.639 \pm 0.554$   $\chi^2/\text{NDF}$ : 255.3/5

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

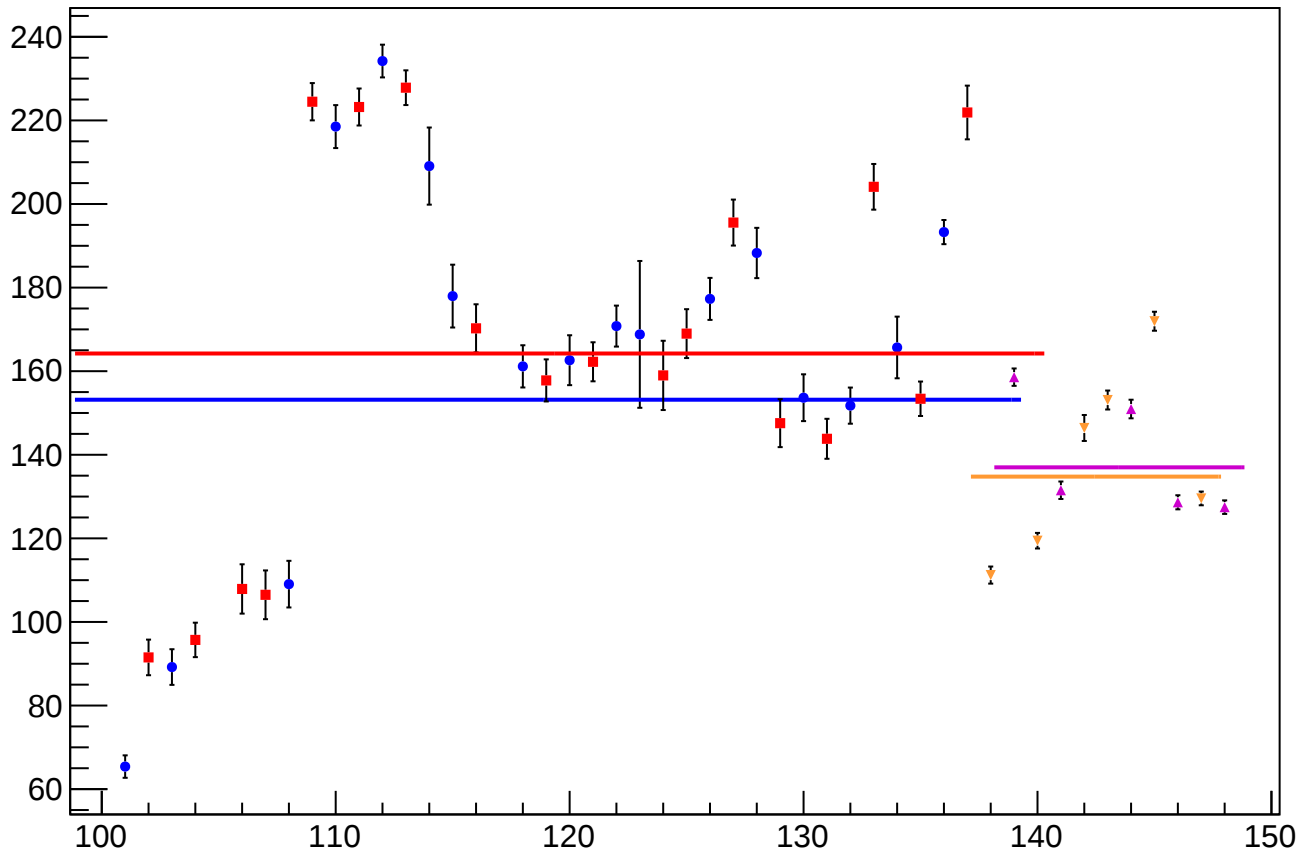
Left In:  $5.012 \pm 0.541$   $\chi^2/\text{NDF}$ : 117.7/4

+ sign  $4.192 \pm 0.414$   $\chi^2/\text{NDF}$ : 552.3/22

All:  $5.126 \pm 0.294$   $\chi^2/\text{NDF}$ : 958.8/45

- sign  $6.073 \pm 0.417$   $\chi^2/\text{NDF}$ : 396.3/22

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.174 $\pm$ 1.146  $\chi^2$ /NDF: 2264.3/16

Left Out: 134.774 $\pm$ 0.848  $\chi^2$ /NDF: 558.0/5

Right Out: 164.232 $\pm$ 1.183  $\chi^2$ /NDF: 1554.8/17

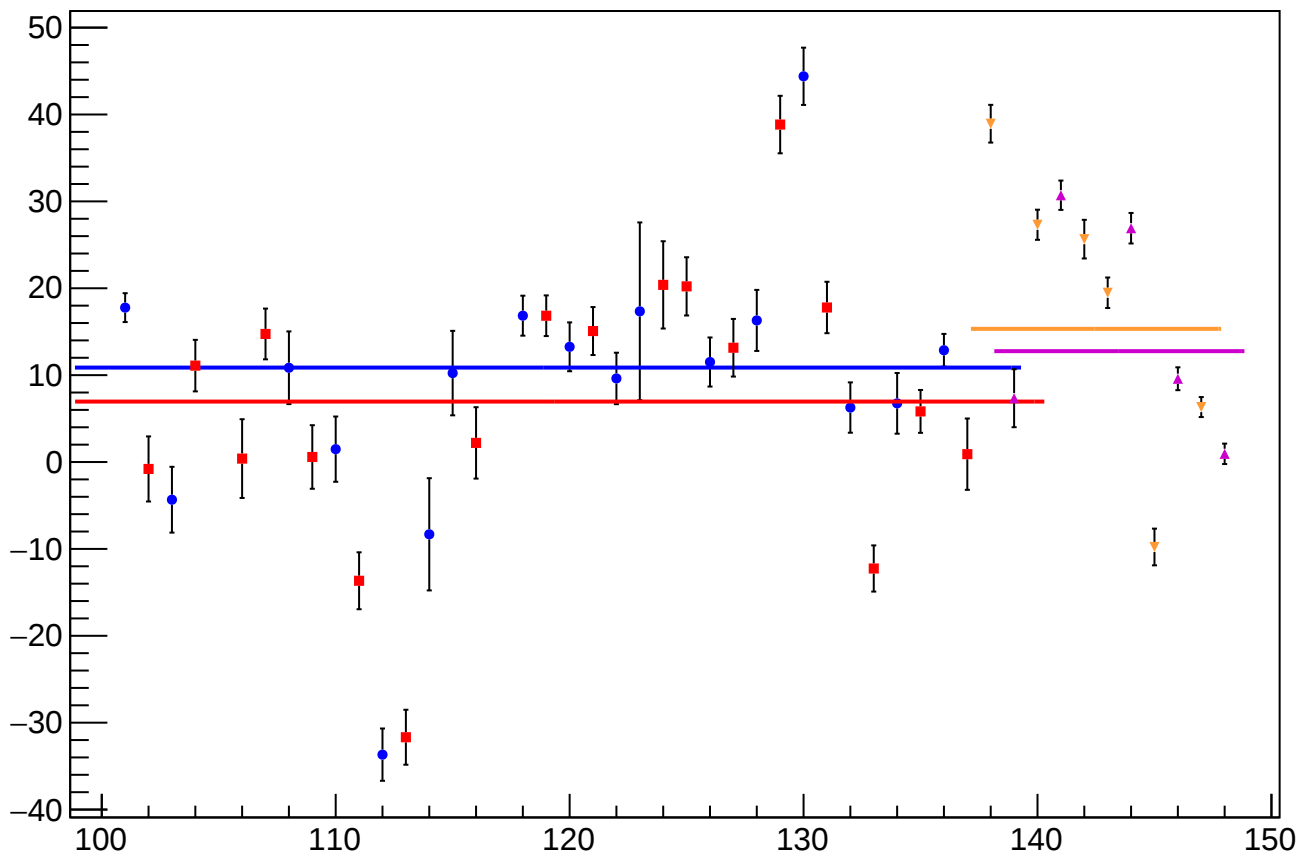
Left In: 136.993 $\pm$ 0.847  $\chi^2$ /NDF: 213.0/4

+ sign 141.287 $\pm$ 0.682  $\chi^2$ /NDF: 2988.7/22

All: 143.731 $\pm$ 0.485  $\chi^2$ /NDF: 5132.9/45

- sign 146.224 $\pm$ 0.689  $\chi^2$ /NDF: 2118.2/22

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 10.872 $\pm$ 0.714  $\chi^2$ /NDF: 386.7/16

Left Out: 15.330 $\pm$ 0.698  $\chi^2$ /NDF: 395.7/5

Right Out: 6.958 $\pm$ 0.749  $\chi^2$ /NDF: 422.3/17

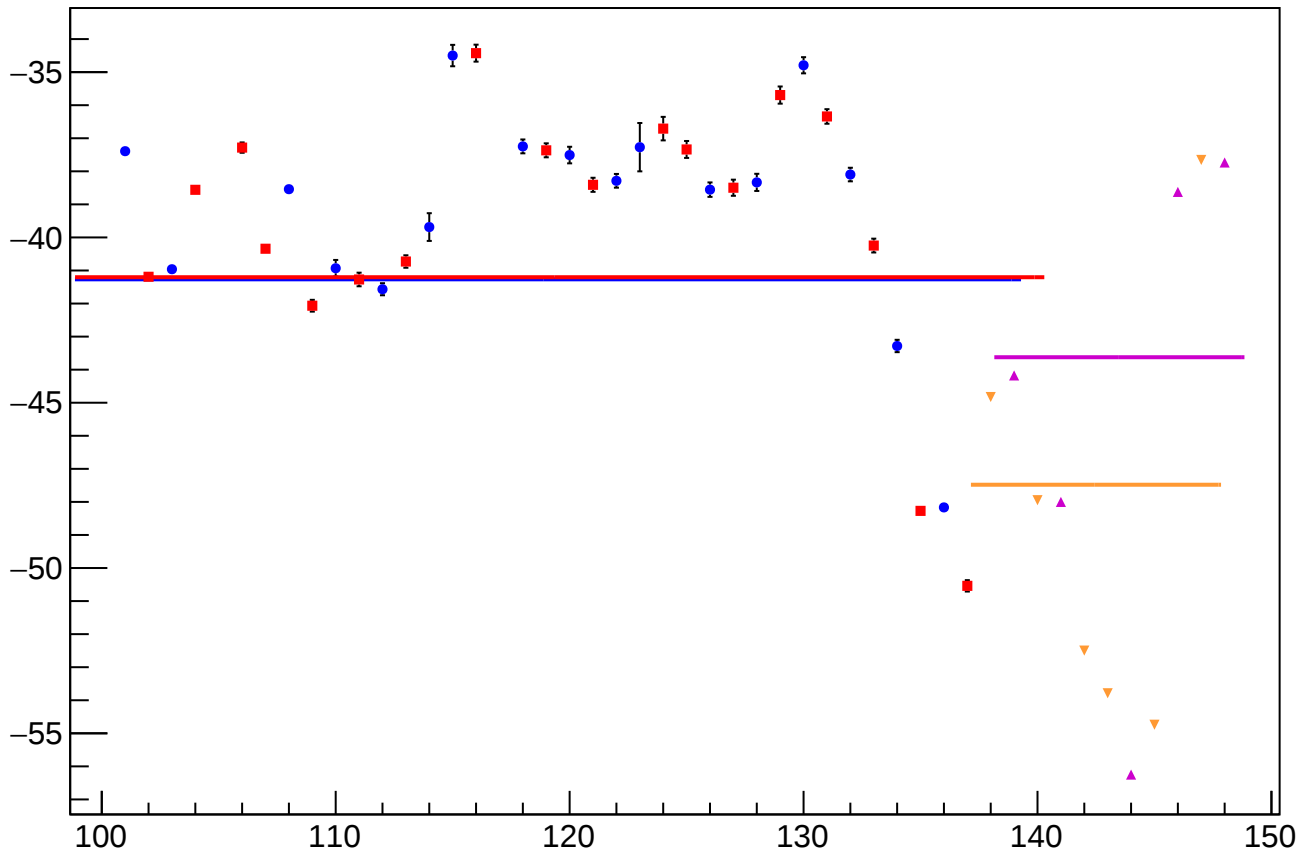
Left In: 12.763 $\pm$ 0.695  $\chi^2$ /NDF: 287.7/4

+ sign 13.153 $\pm$ 0.499  $\chi^2$ /NDF: 802.3/22

All: 11.646 $\pm$ 0.357  $\chi^2$ /NDF: 1563.1/45

- sign 10.076 $\pm$ 0.510  $\chi^2$ /NDF: 742.2/22

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}$ : 12581.8/16

Left Out:  $-47.481 \pm 0.036$   $\chi^2/\text{NDF}$ : 30181.4/5

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}$ : 12008.6/17

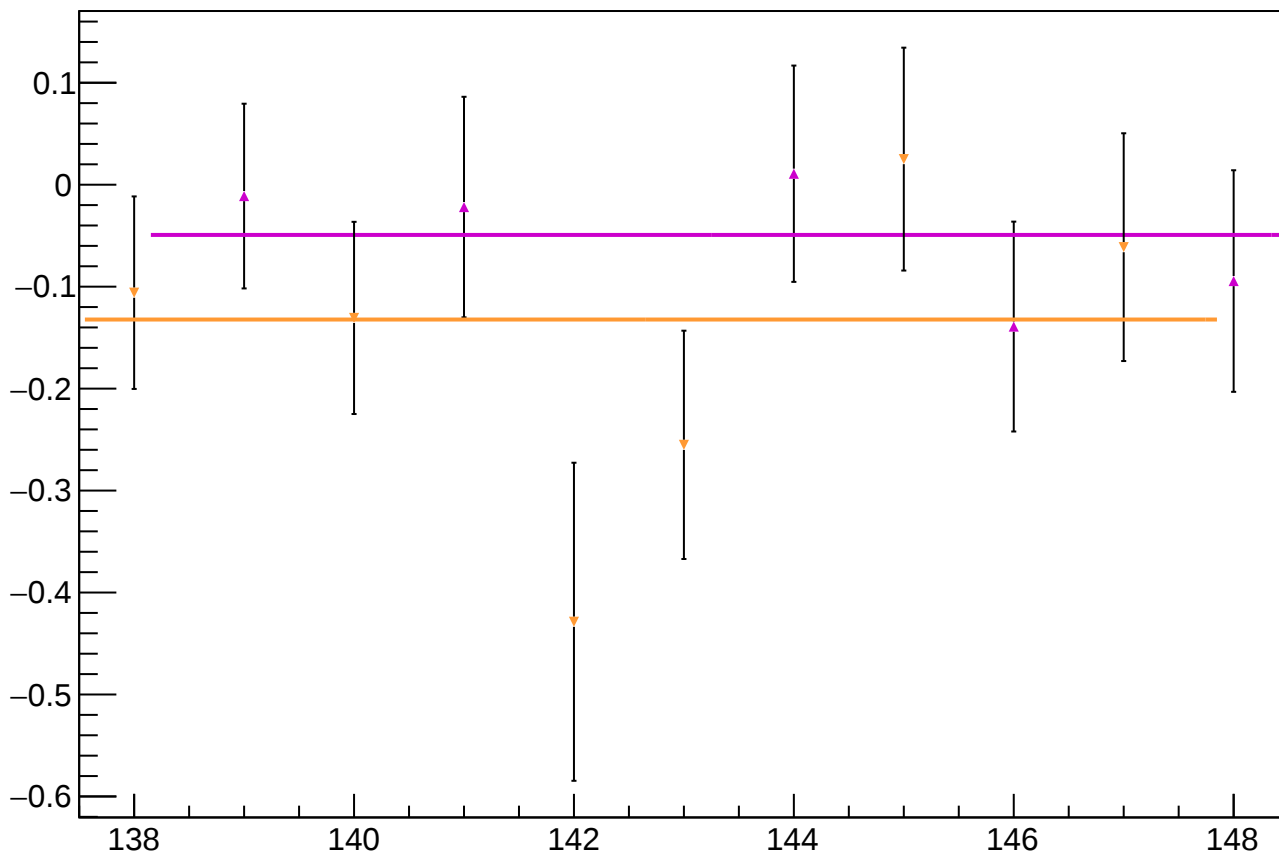
Left In:  $-43.624 \pm 0.035$   $\chi^2/\text{NDF}$ : 30881.7/4

+ sign  $-44.599 \pm 0.026$   $\chi^2/\text{NDF}$ : 56714.8/22

All:  $-43.560 \pm 0.019$   $\chi^2/\text{NDF}$ : 104857.6/45

- sign  $-42.530 \pm 0.026$   $\chi^2/\text{NDF}$ : 45018.1/22

# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.132 $\pm$ 0.044  $\chi^2$ /NDF: 7.4/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

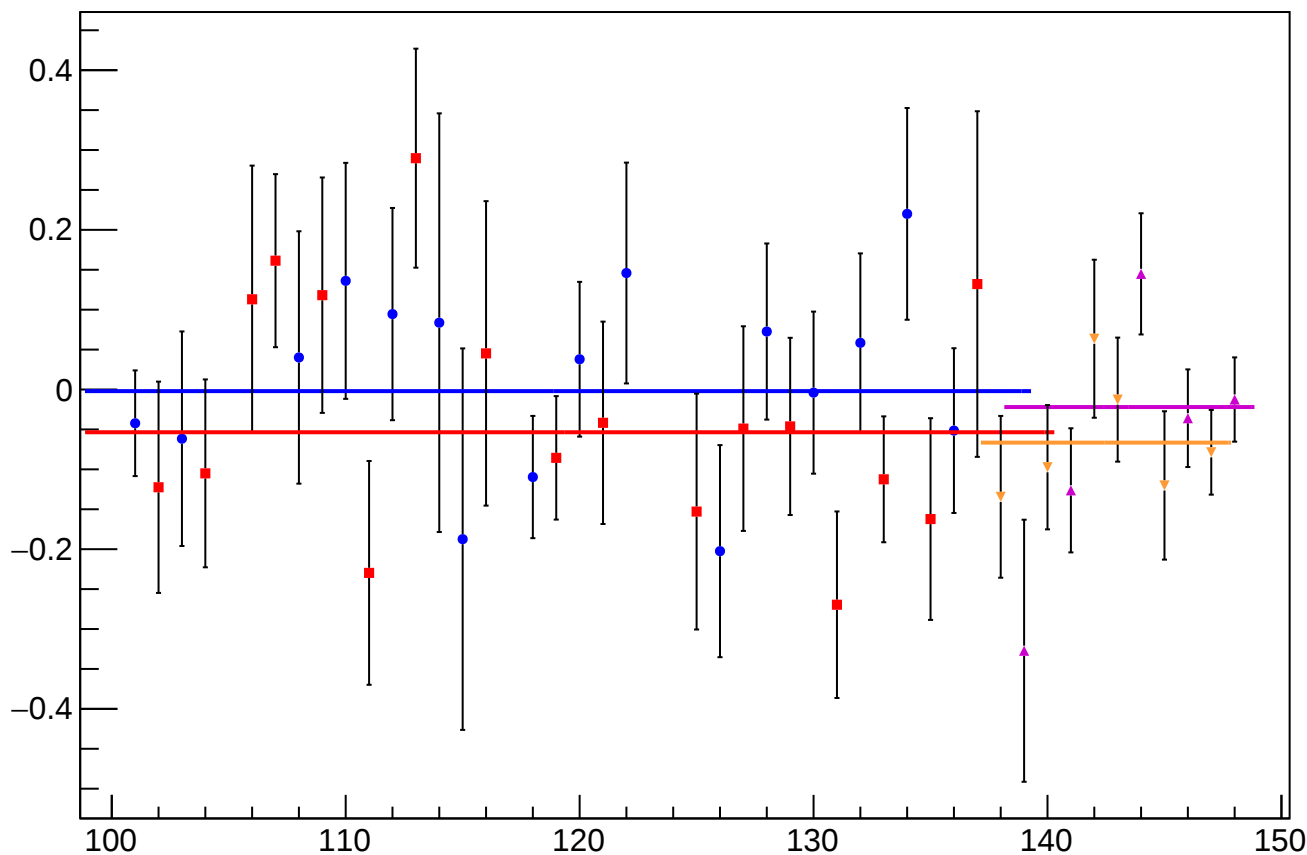
Left In: -0.049 $\pm$ 0.046  $\chi^2$ /NDF: 1.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.092 $\pm$ 0.032  $\chi^2$ /NDF: 10.6/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.002 \pm 0.028$   $\chi^2/\text{NDF}$ : 12.1/15

Left Out:  $-0.067 \pm 0.032$   $\chi^2/\text{NDF}$ : 3.2/5

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

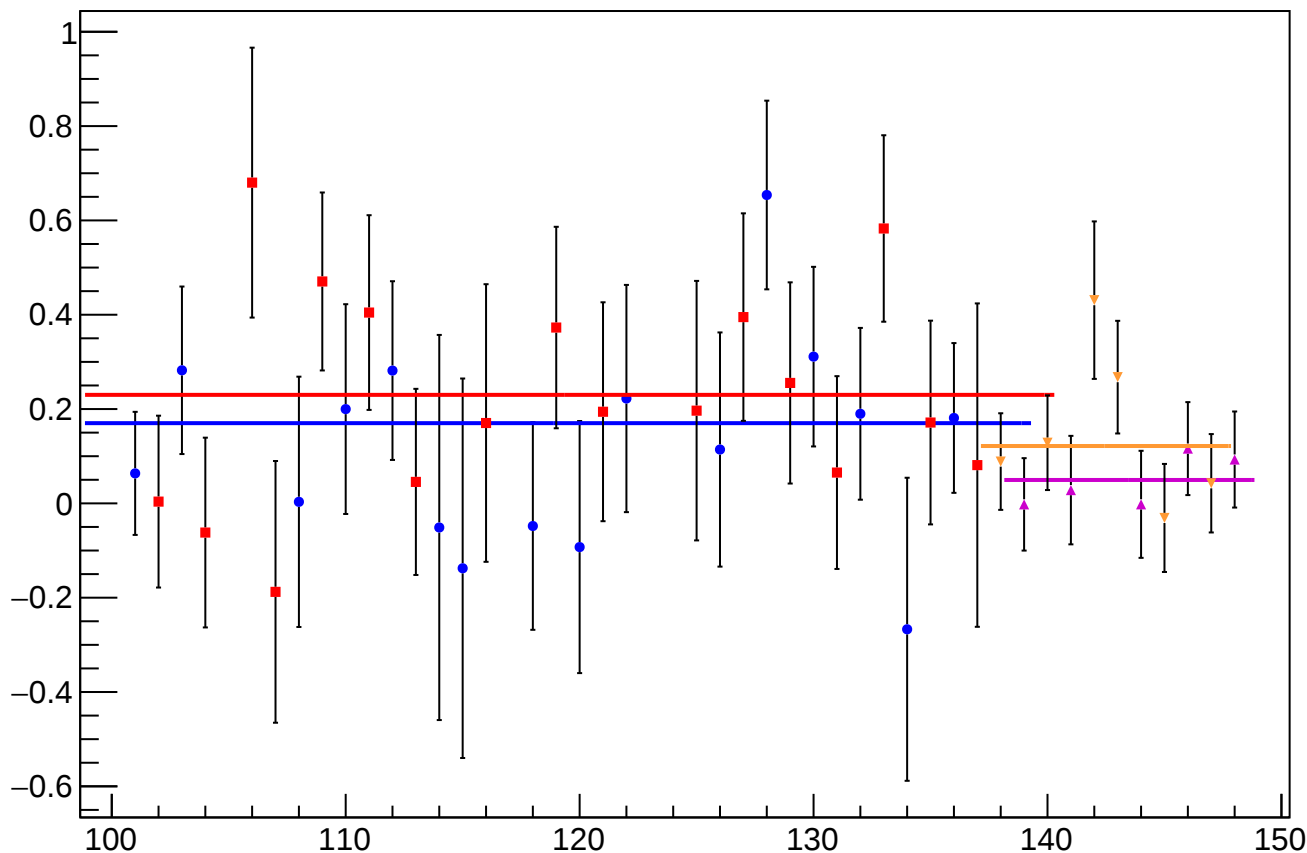
Left In:  $-0.022 \pm 0.032$   $\chi^2/\text{NDF}$ : 10.2/4

+ sign  $-0.031 \pm 0.021$   $\chi^2/\text{NDF}$ : 17.6/21

All:  $-0.035 \pm 0.015$   $\chi^2/\text{NDF}$ : 49.3/43

- sign  $-0.039 \pm 0.021$   $\chi^2/\text{NDF}$ : 31.7/21

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In: 0.170+/-0.052  $\chi^2/\text{NDF}$ : 13.0/15

Left Out: 0.122+/-0.046  $\chi^2/\text{NDF}$ : 7.4/5

Right Out: 0.230+/-0.054  $\chi^2/\text{NDF}$ : 16.8/16

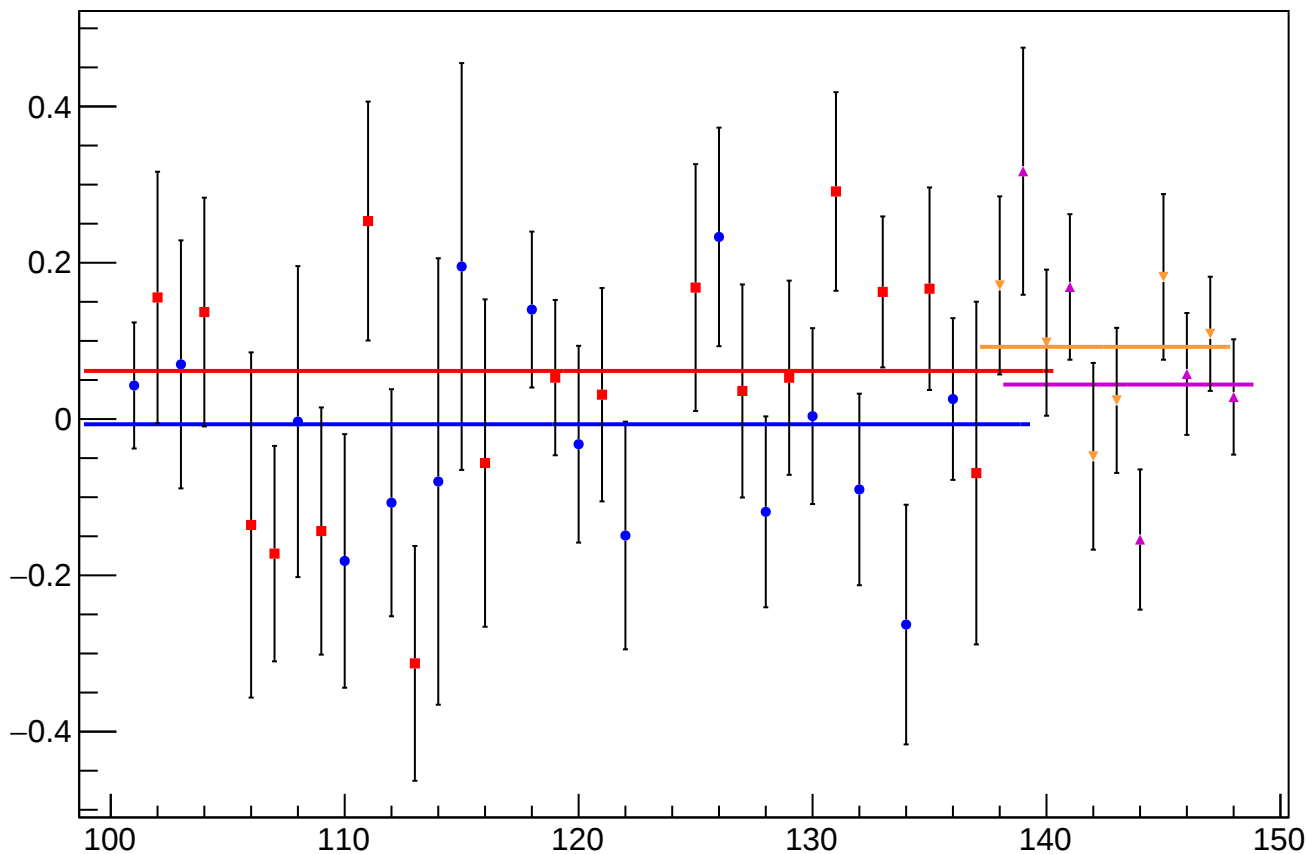
Left In: 0.050+/-0.047  $\chi^2/\text{NDF}$ : 1.2/4

+ sign 0.143+/-0.035  $\chi^2/\text{NDF}$ : 20.9/21

All: 0.135+/-0.025  $\chi^2/\text{NDF}$ : 45.3/43

- sign 0.127+/-0.035  $\chi^2/\text{NDF}$ : 24.4/21

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In: -0.007 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 13.2/15

Left Out: 0.092 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 3.2/5

Right Out: 0.062 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 20.0/16

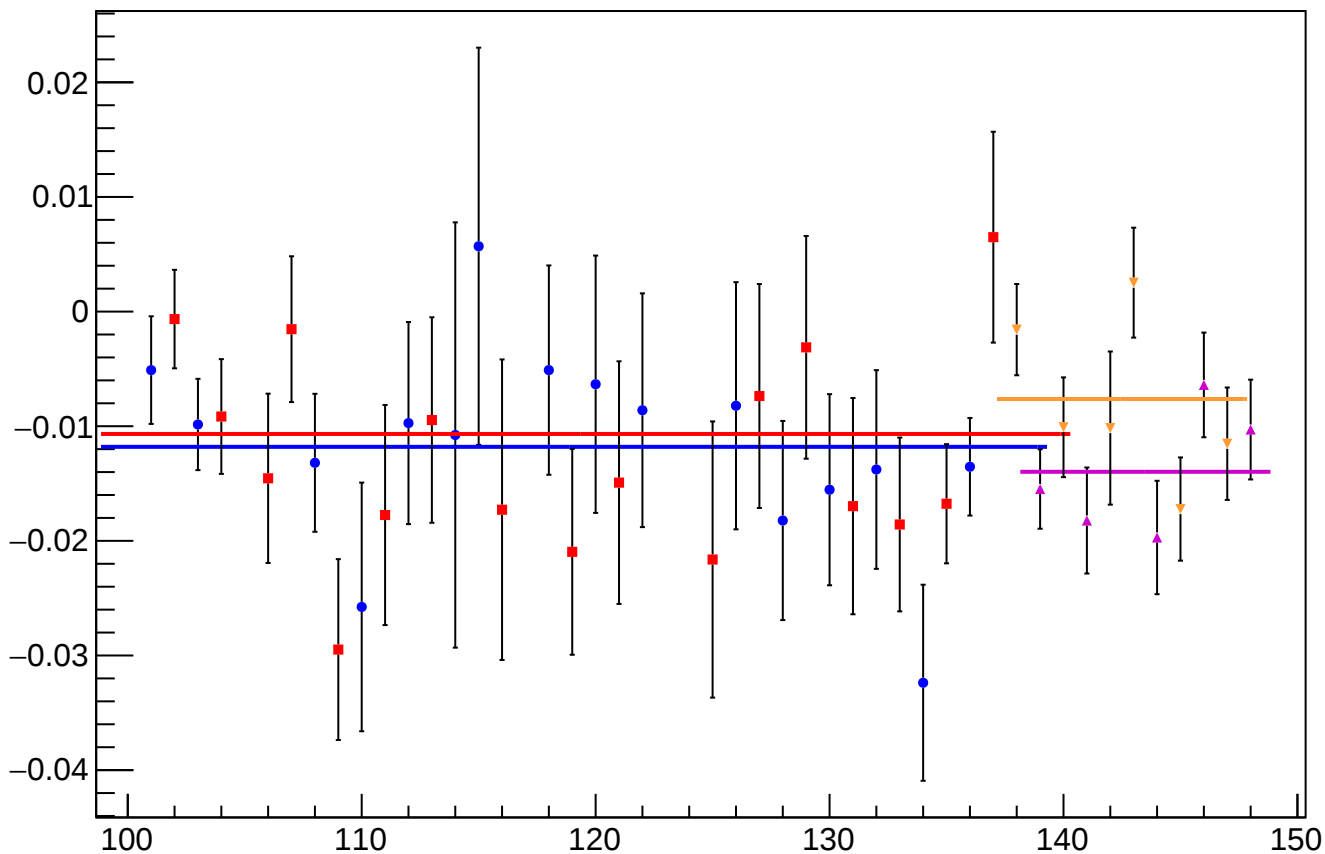
Left In: 0.044 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 9.7/4

+ sign 0.034 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 20.2/21

All: 0.044 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 50.3/43

- sign 0.054 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 29.8/21

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.008 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.4/5

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

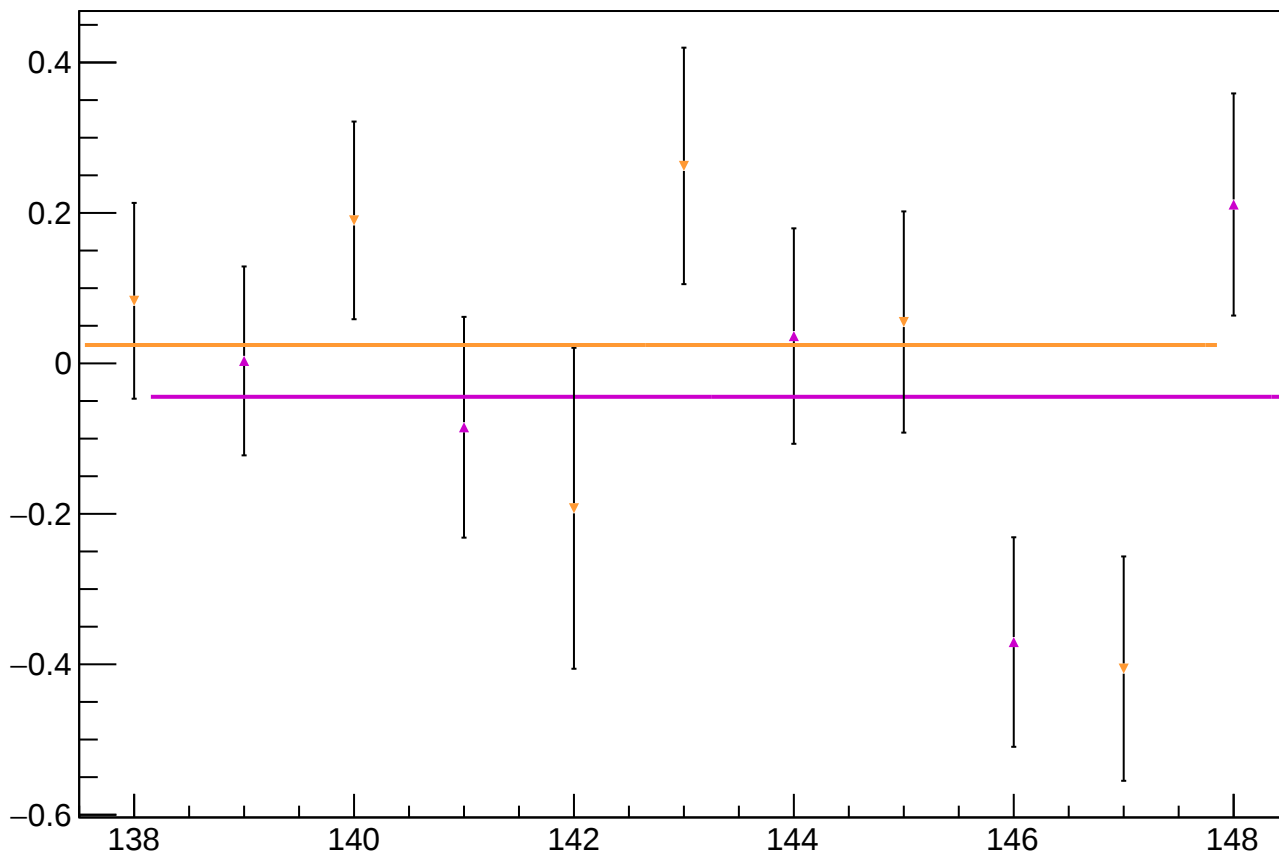
Left In:  $-0.014 \pm 0.002$   $\chi^2/\text{NDF}$ : 5.8/4

+ sign  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 27.8/21

All:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 60.6/43

- sign  $-0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 31.2/21

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.024 $\pm$ 0.061  $\chi^2$ /NDF: 13.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

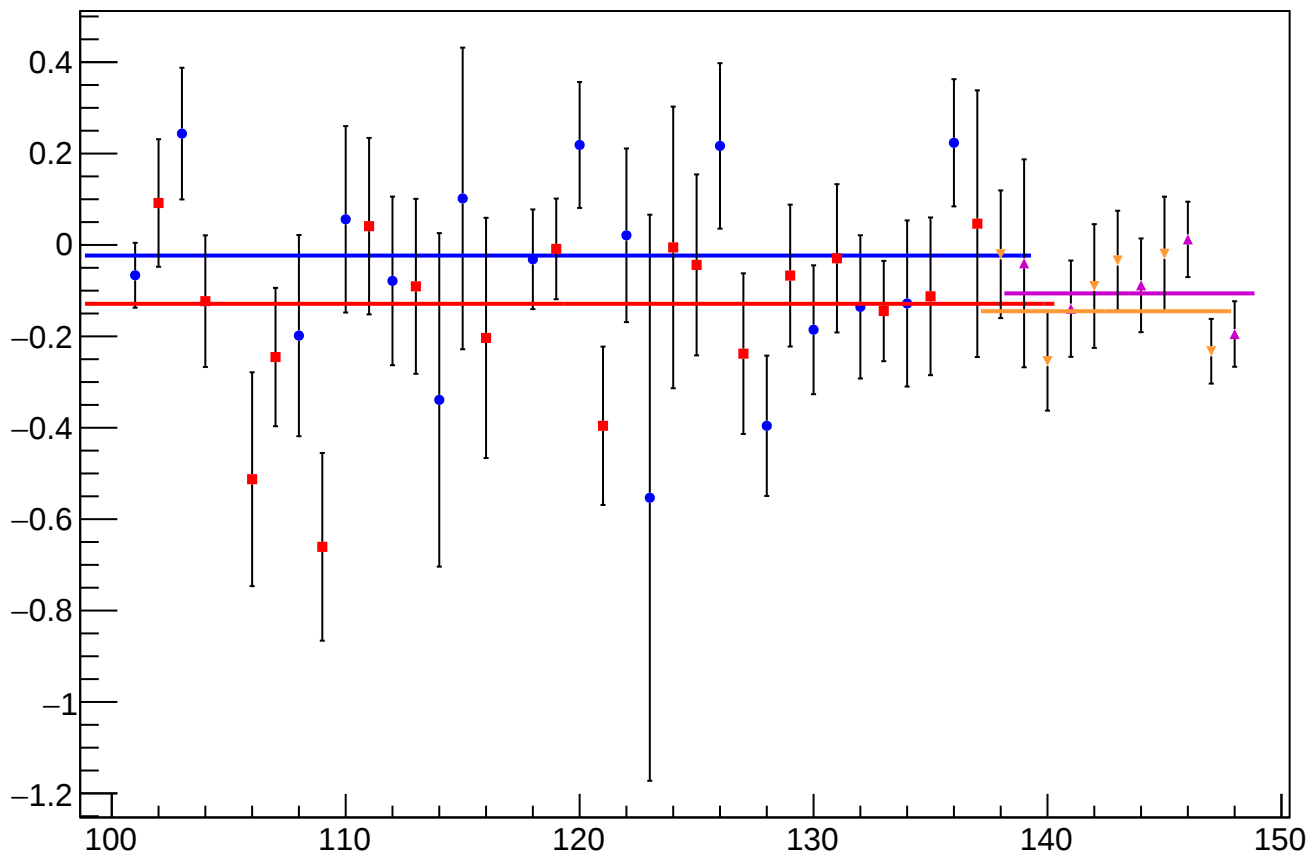
Left In: -0.044 $\pm$ 0.062  $\chi^2$ /NDF: 9.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.009 $\pm$ 0.044  $\chi^2$ /NDF: 23.1/10

- 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: -0.145+/-0.043  $\chi^2/\text{NDF}$ : 5.5/5

Right Out: -0.129+/-0.039  $\chi^2/\text{NDF}$ : 18.6/17

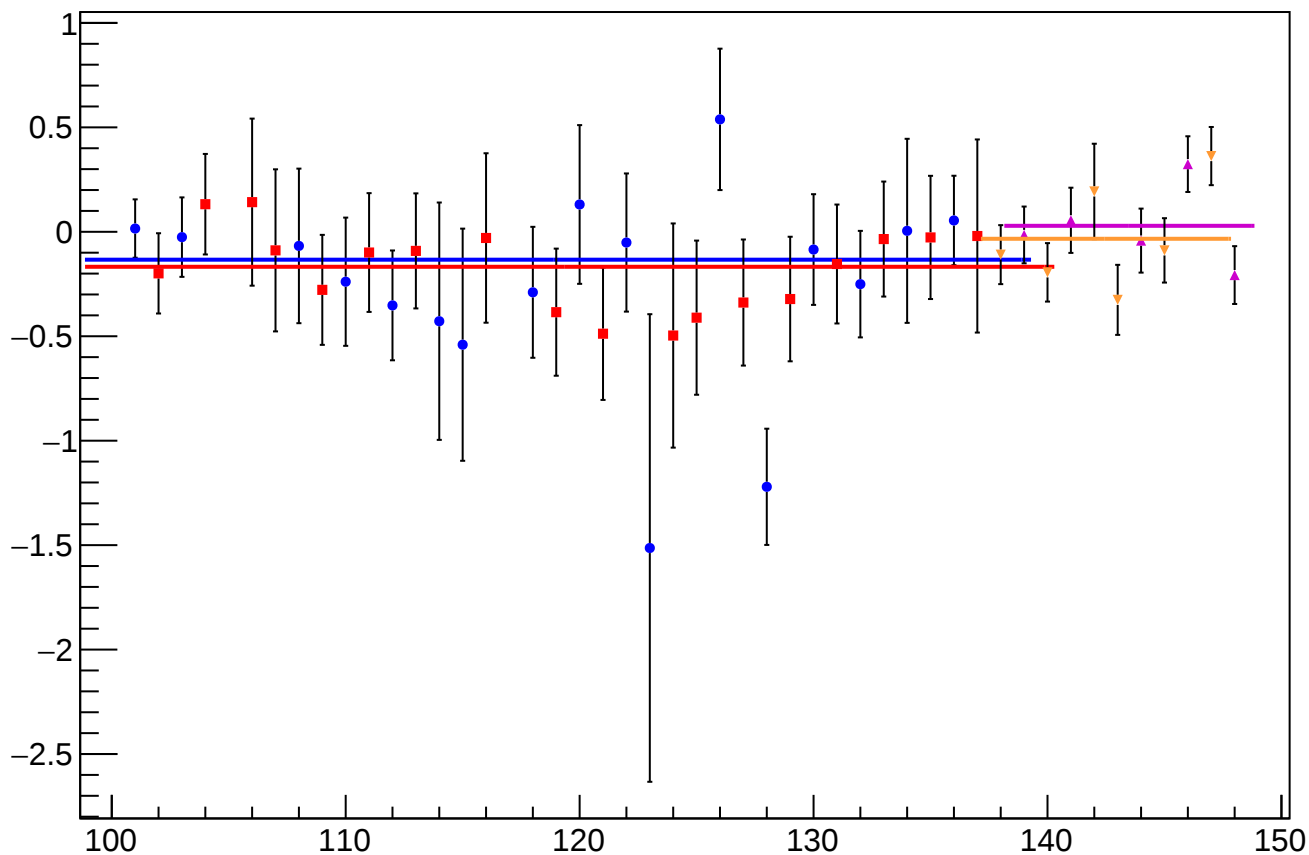
Left In: -0.106+/-0.043  $\chi^2/\text{NDF}$ : 3.8/4

+ sign -0.074+/-0.028  $\chi^2/\text{NDF}$ : 32.6/22

All: -0.095+/-0.020  $\chi^2/\text{NDF}$ : 56.4/45

- sign -0.118+/-0.029  $\chi^2/\text{NDF}$ : 22.6/22

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $-0.033 \pm 0.063$   $\chi^2/\text{NDF}$ : 13.8/5

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

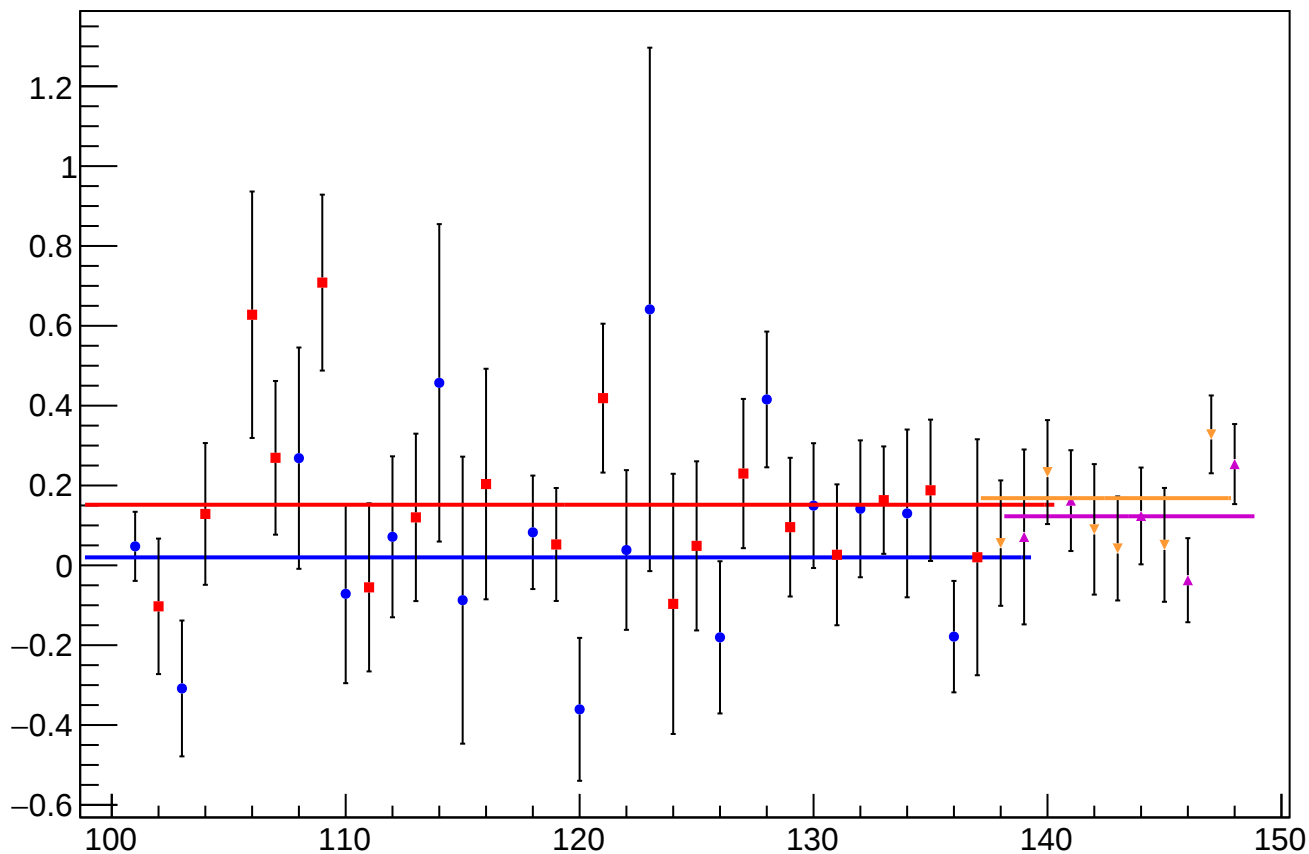
Left In:  $0.029 \pm 0.064$   $\chi^2/\text{NDF}$ : 8.2/4

+ sign  $-0.081 \pm 0.046$   $\chi^2/\text{NDF}$ : 40.8/22

All:  $-0.070 \pm 0.033$   $\chi^2/\text{NDF}$ : 59.4/45

- sign  $-0.059 \pm 0.047$   $\chi^2/\text{NDF}$ : 18.5/22

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.020 \pm 0.042$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $0.168 \pm 0.053$   $\chi^2/\text{NDF}$ : 5.3/5

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}$ : 16.8/17

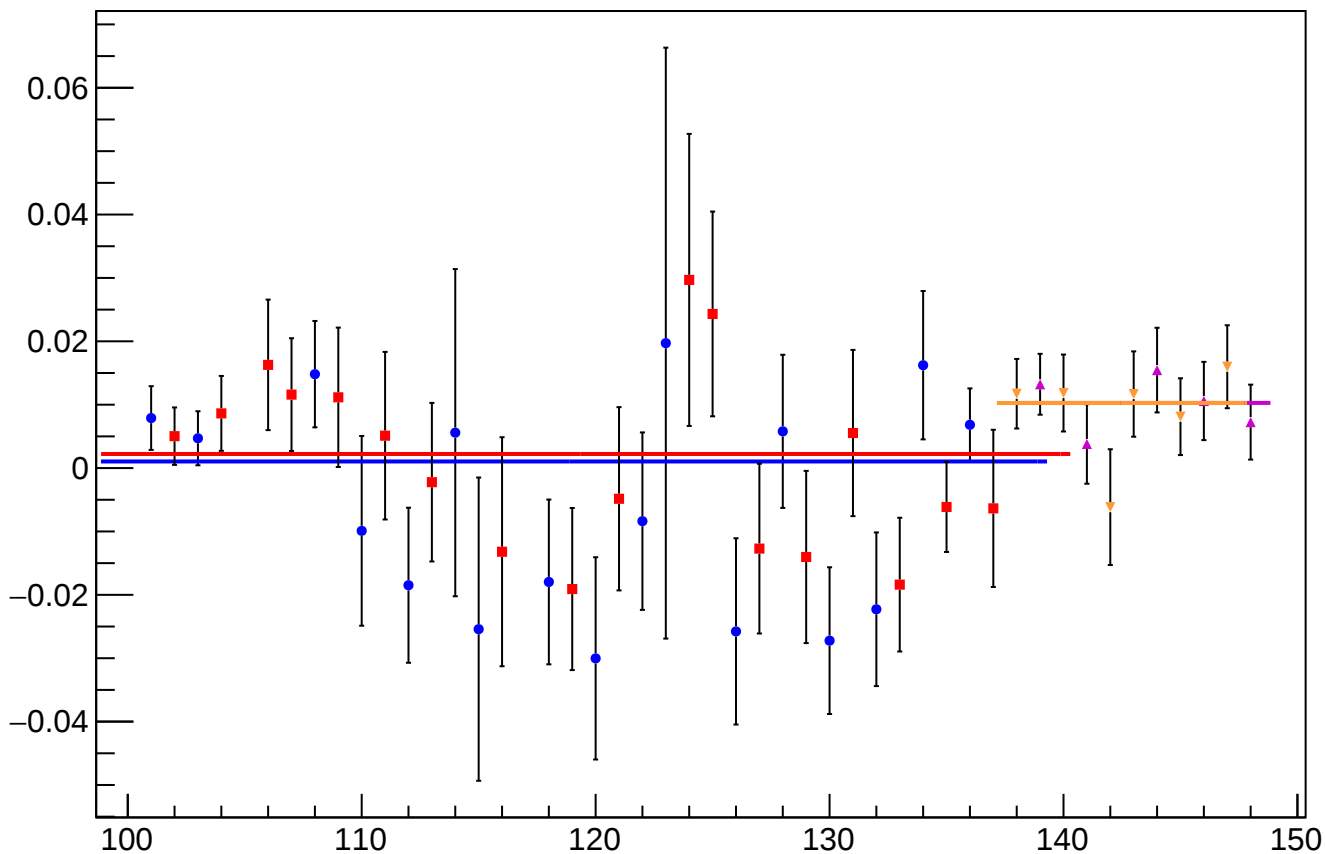
Left In:  $0.123 \pm 0.054$   $\chi^2/\text{NDF}$ : 4.2/4

+ sign  $0.077 \pm 0.033$   $\chi^2/\text{NDF}$ : 31.8/22

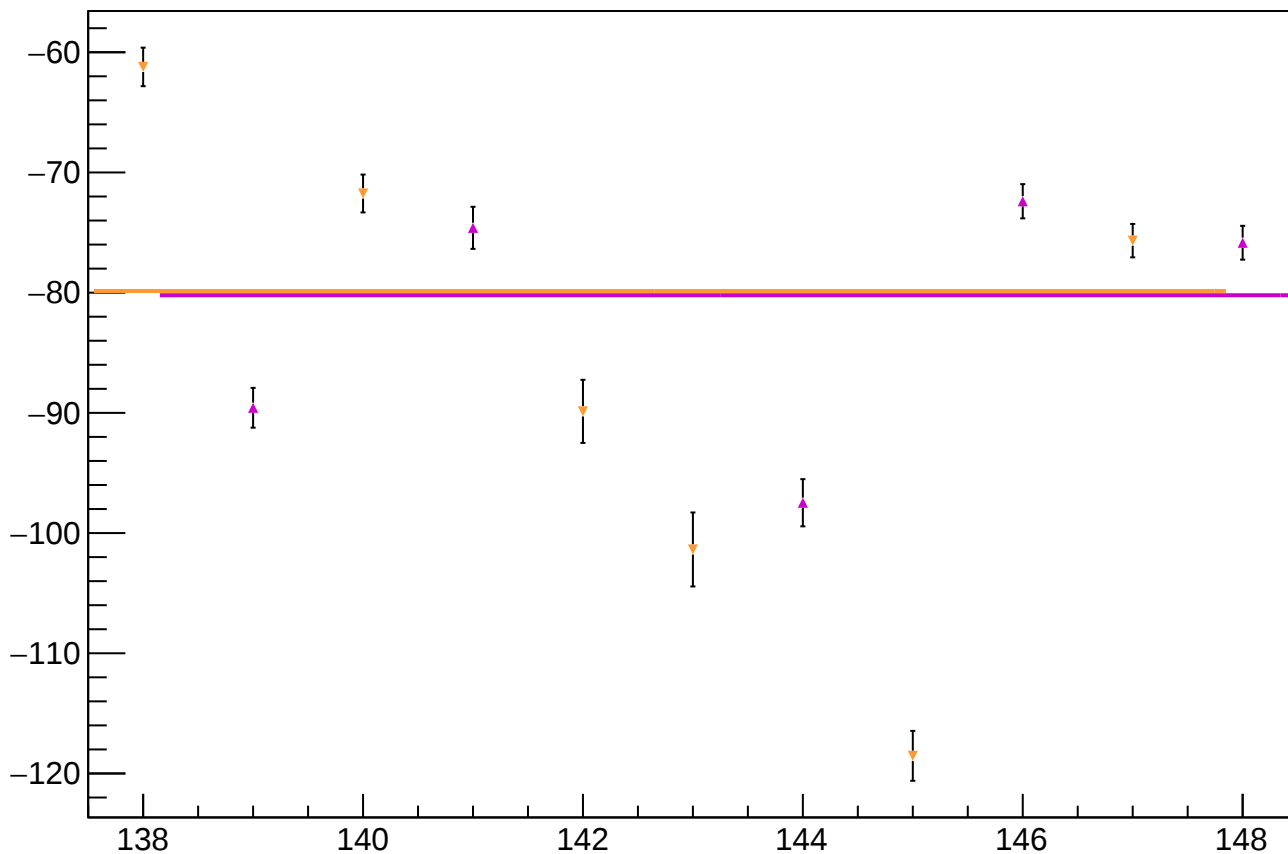
All:  $0.107 \pm 0.024$   $\chi^2/\text{NDF}$ : 54.7/45

- sign  $0.140 \pm 0.035$   $\chi^2/\text{NDF}$ : 21.1/22

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -79.859+/-0.747  $\chi^2/\text{NDF}$ : 581.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

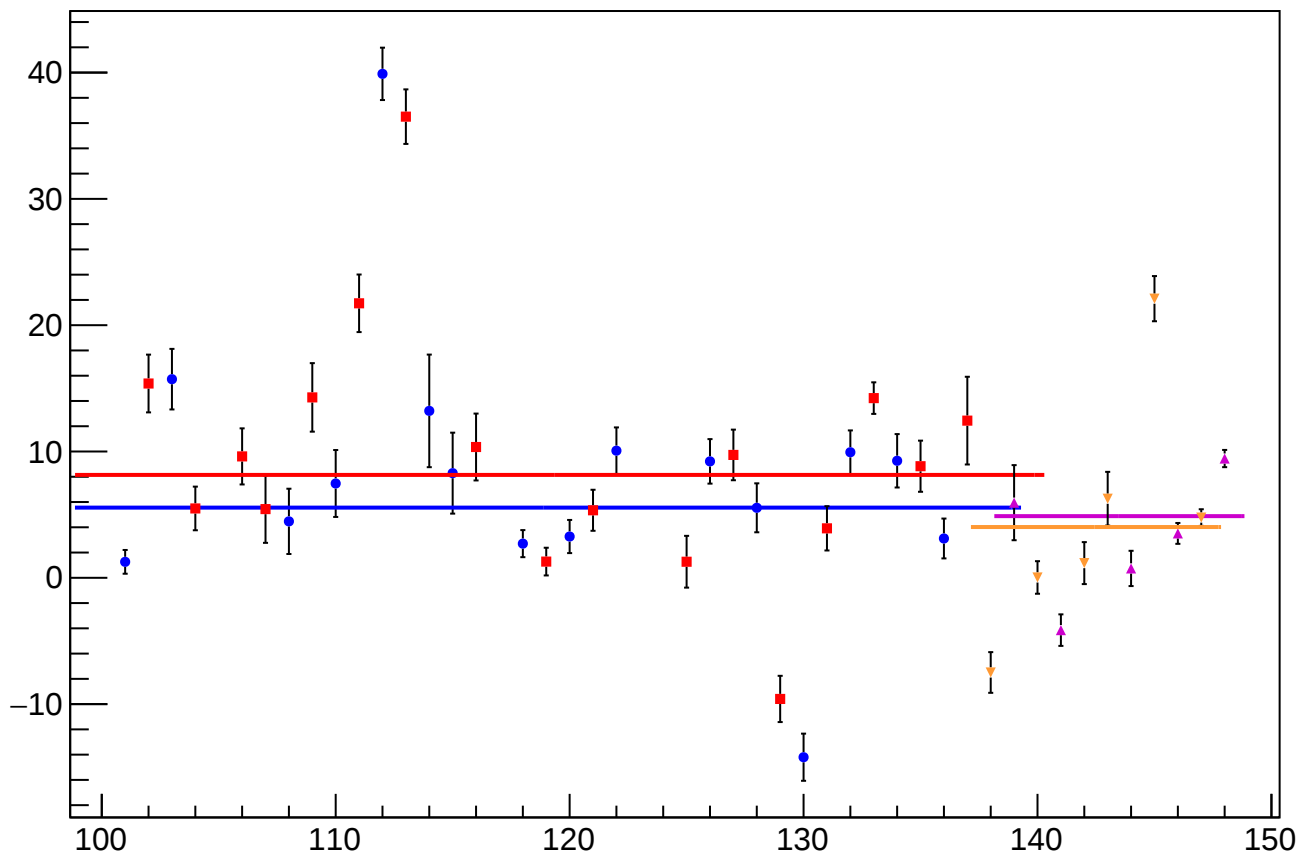
Left In: -80.213+/-0.716  $\chi^2/\text{NDF}$ : 159.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -80.043+/-0.517  $\chi^2/\text{NDF}$ : 741.1/10

- 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:  $4.020 \pm 0.489$   $\chi^2/\text{NDF}$ : 168.3/5

Right Out:  $8.146 \pm 0.454$   $\chi^2/\text{NDF}$ : 406.8/16

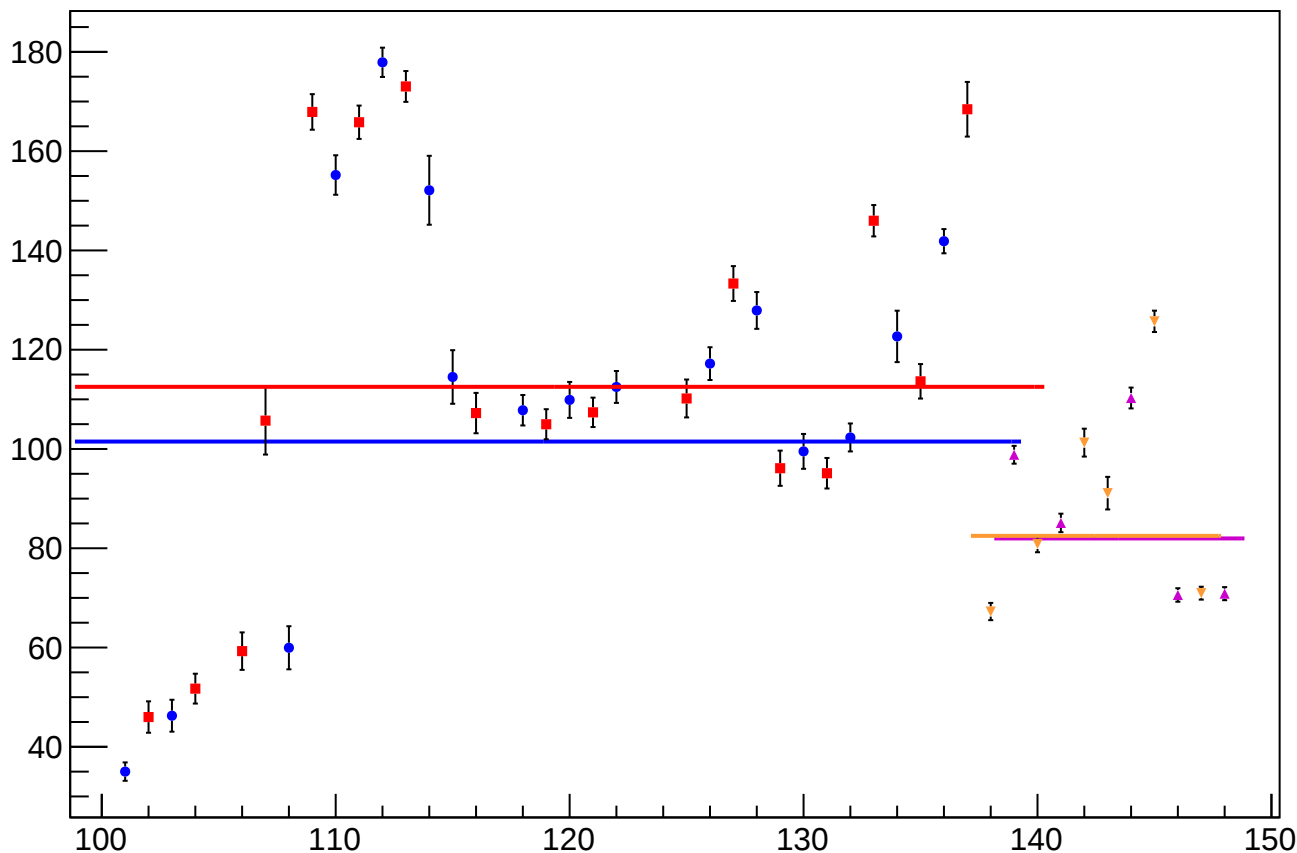
Left In:  $4.883 \pm 0.452$   $\chi^2/\text{NDF}$ : 108.6/4

+ sign  $4.897 \pm 0.320$   $\chi^2/\text{NDF}$ : 635.9/21

All:  $5.702 \pm 0.227$   $\chi^2/\text{NDF}$ : 1189.8/43

- sign  $6.508 \pm 0.321$   $\chi^2/\text{NDF}$ : 541.3/21

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.496 $\pm$ 0.808  $\chi^2$ /NDF: 2973.0/15

Left Out: 82.501 $\pm$ 0.763  $\chi^2$ /NDF:611.0/5

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

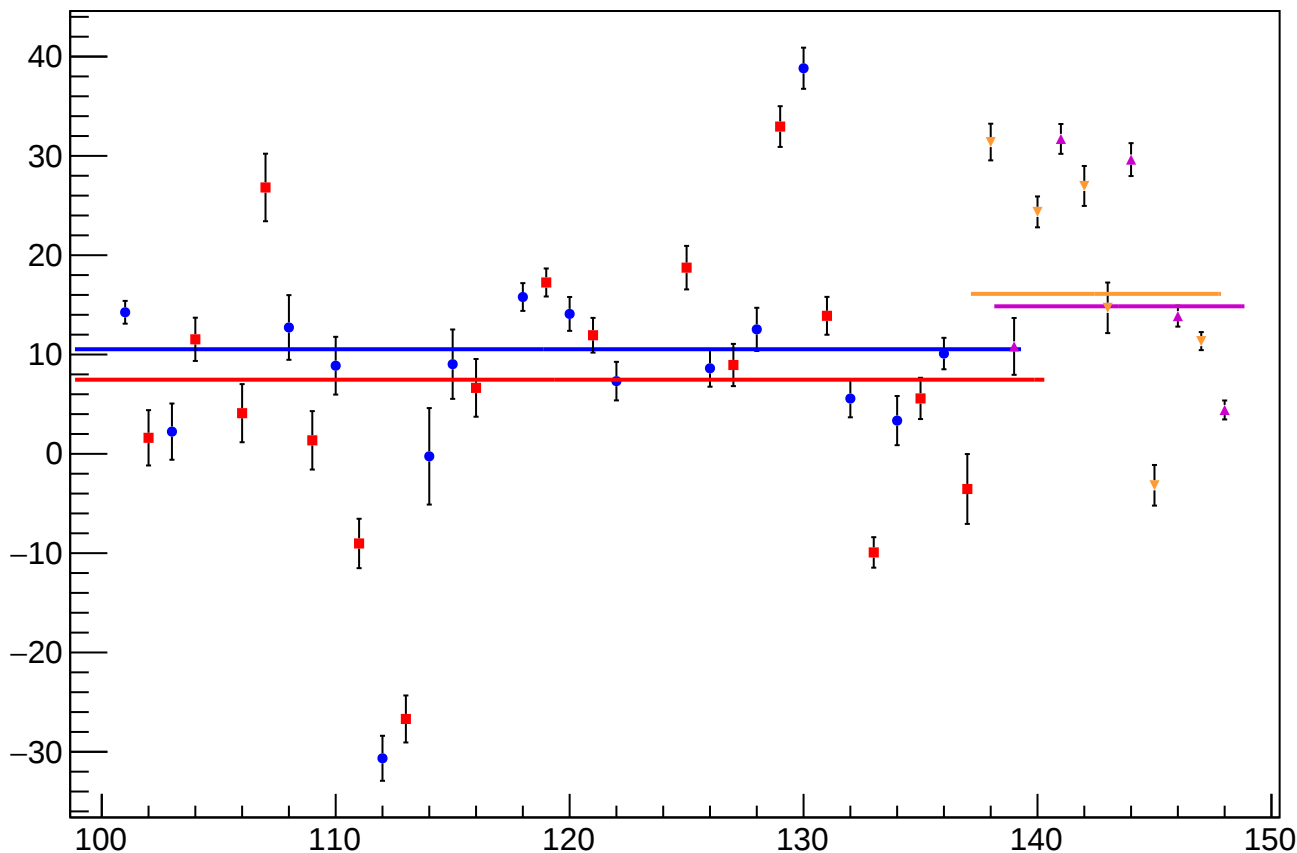
Left In: 81.980 $\pm$ 0.717  $\chi^2$ /NDF:414.1/4

+ sign 91.457 $\pm$ 0.555  $\chi^2$ /NDF: 3875.9/21

All: 93.157 $\pm$ 0.389  $\chi^2$ /NDF: 7306.5/43

- sign 94.805 $\pm$ 0.546  $\chi^2$ /NDF: 3412.1/21

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 10.532 $\pm$ 0.493  $\chi^2$ /NDF: 580.3/15

Left Out: 16.109 $\pm$ 0.625  $\chi^2$ /NDF: 242.4/5

Right Out: 7.466 $\pm$ 0.525  $\chi^2$ /NDF: 685.0/16

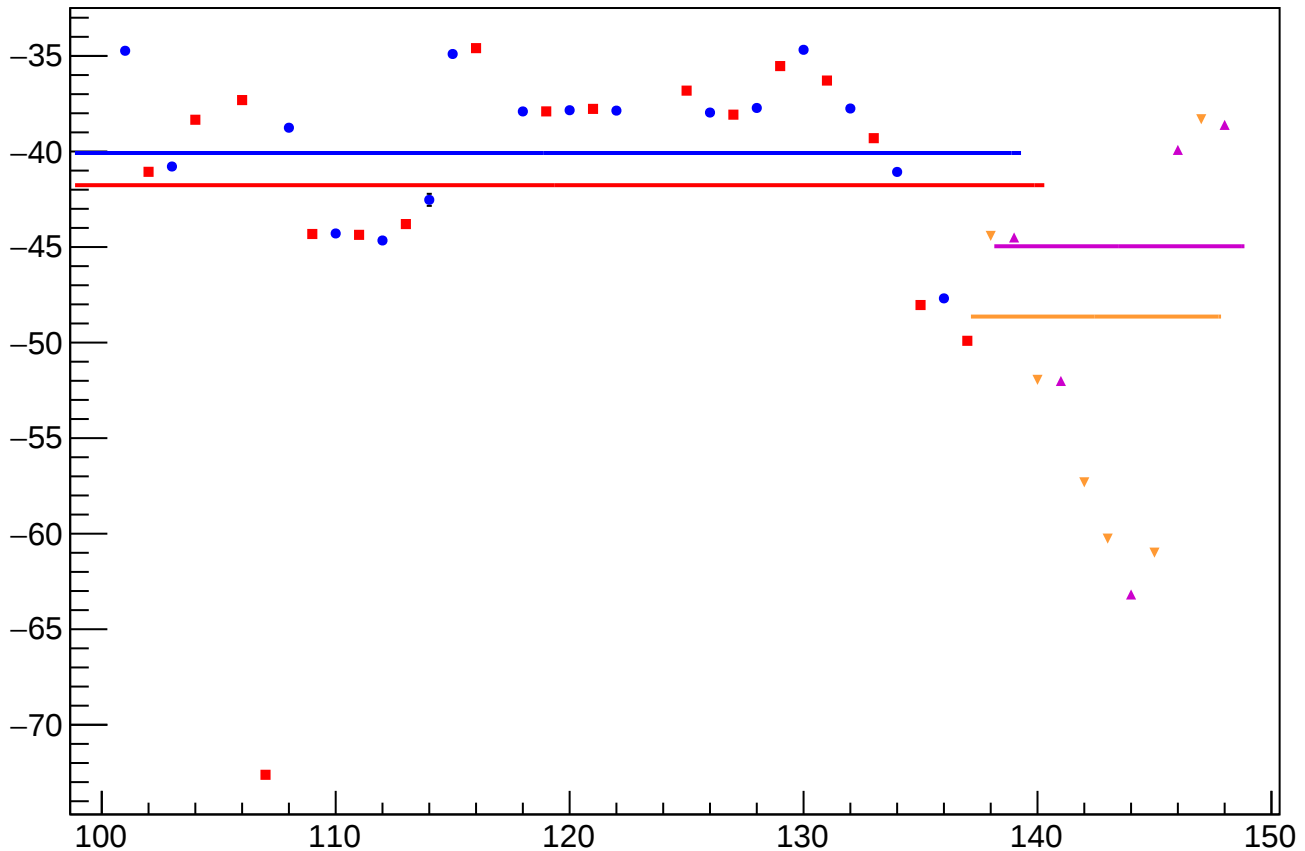
Left In: 14.855 $\pm$ 0.585  $\chi^2$ /NDF: 327.9/4

+ sign 12.670 $\pm$ 0.387  $\chi^2$ /NDF: 871.8/21

All: 11.725 $\pm$ 0.275  $\chi^2$ /NDF: 1985.1/43

- sign 10.763 $\pm$ 0.391  $\chi^2$ /NDF: 1101.3/21

# 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:  $-48.639 \pm 0.033$   $\chi^2/\text{NDF}$ : 68950.4/5

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}$ : 60249.3/16

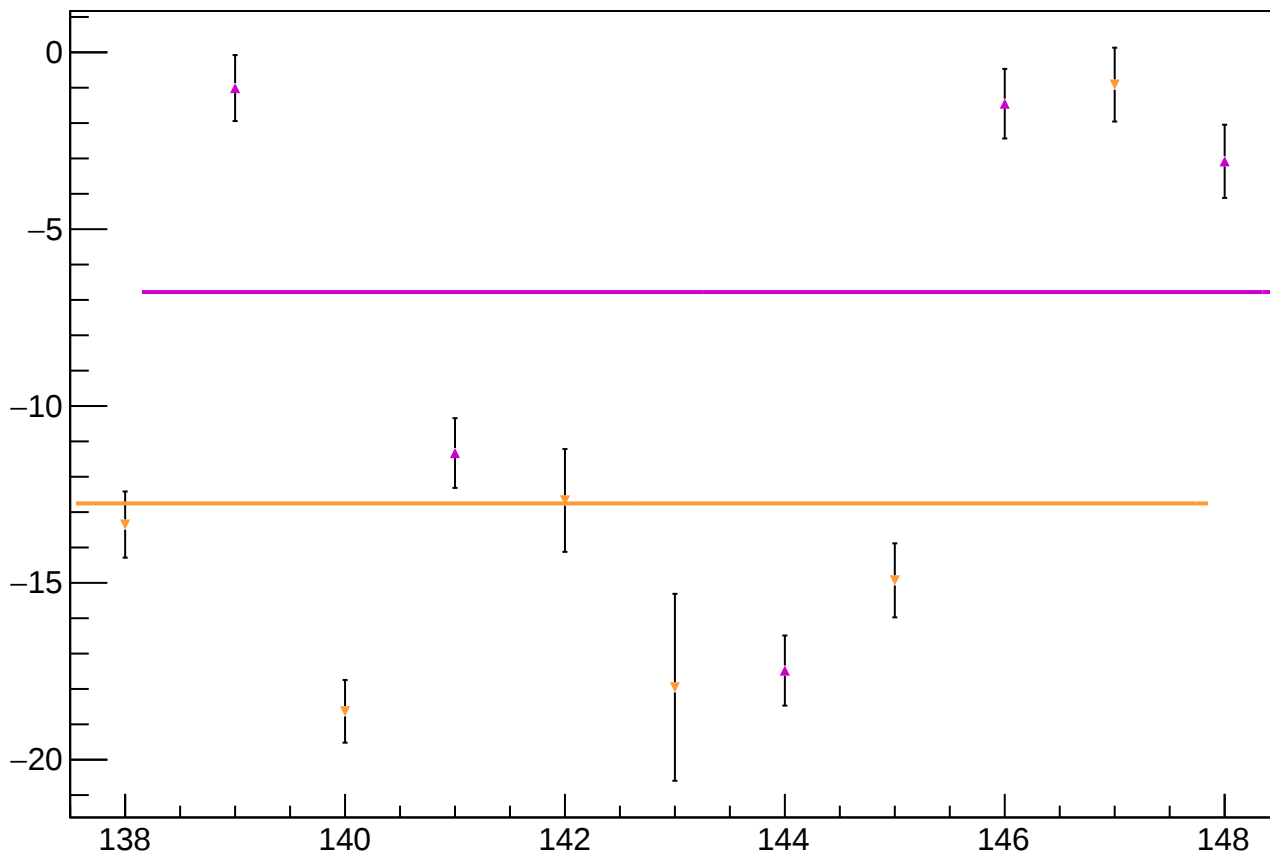
Left In:  $-44.959 \pm 0.030$   $\chi^2/\text{NDF}$ : 67079.3/4

+ sign  $-43.741 \pm 0.021$   $\chi^2/\text{NDF}$ : 133457.7/21

All:  $-43.515 \pm 0.015$   $\chi^2/\text{NDF}$ : 266909.4/43

- sign  $-43.301 \pm 0.021$   $\chi^2/\text{NDF}$ : 133233.5/21

# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.753+/-0.454  $\chi^2/\text{NDF}$ : 181.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

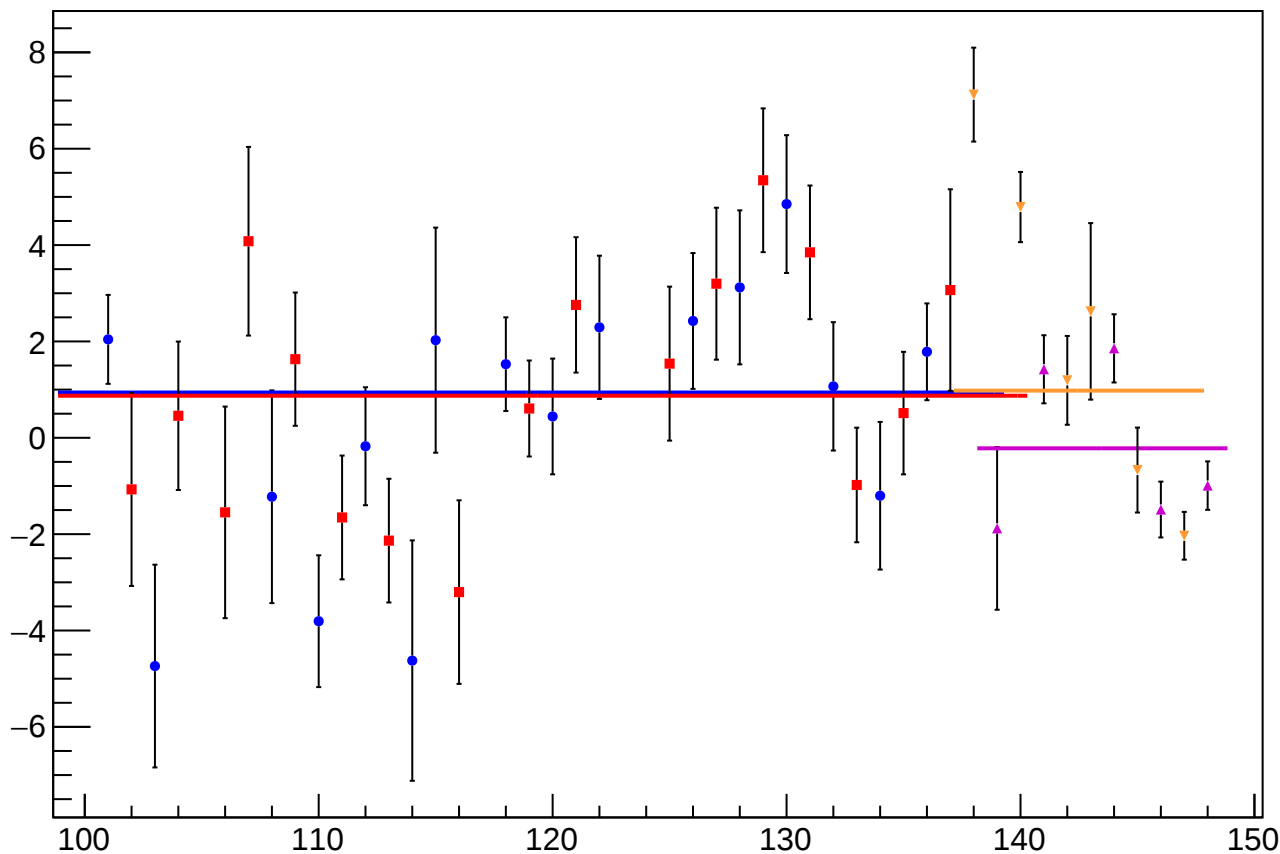
Left In: -6.777+/-0.440  $\chi^2/\text{NDF}$ : 218.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.676+/-0.316  $\chi^2/\text{NDF}$ : 488.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.939 \pm 0.339$   $\chi^2/\text{NDF}: 42.2/15$

Left Out:  $0.979 \pm 0.320$   $\chi^2/\text{NDF}: 108.4/5$

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$

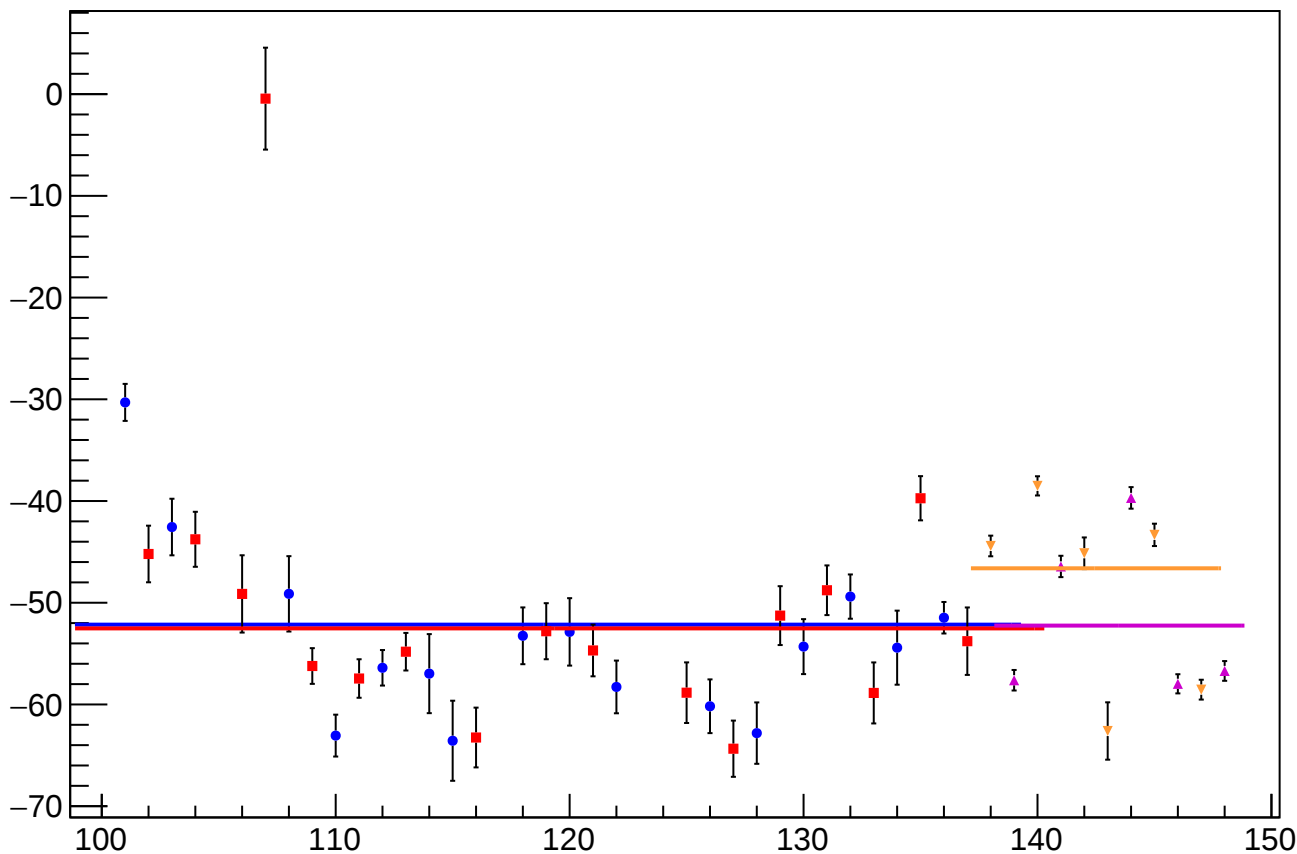
Left In:  $-0.218 \pm 0.298$   $\chi^2/\text{NDF}: 22.1/4$

+ sign  $0.961 \pm 0.233$   $\chi^2/\text{NDF}: 150.6/21$

All:  $0.590 \pm 0.163$   $\chi^2/\text{NDF}: 223.8/43$

- sign  $0.234 \pm 0.228$   $\chi^2/\text{NDF}: 68.2/21$

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-52.154 \pm 0.613$   $\chi^2/\text{NDF}$ : 231.1/15

Left Out:  $-46.615 \pm 0.471$   $\chi^2/\text{NDF}$ : 269.9/5

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

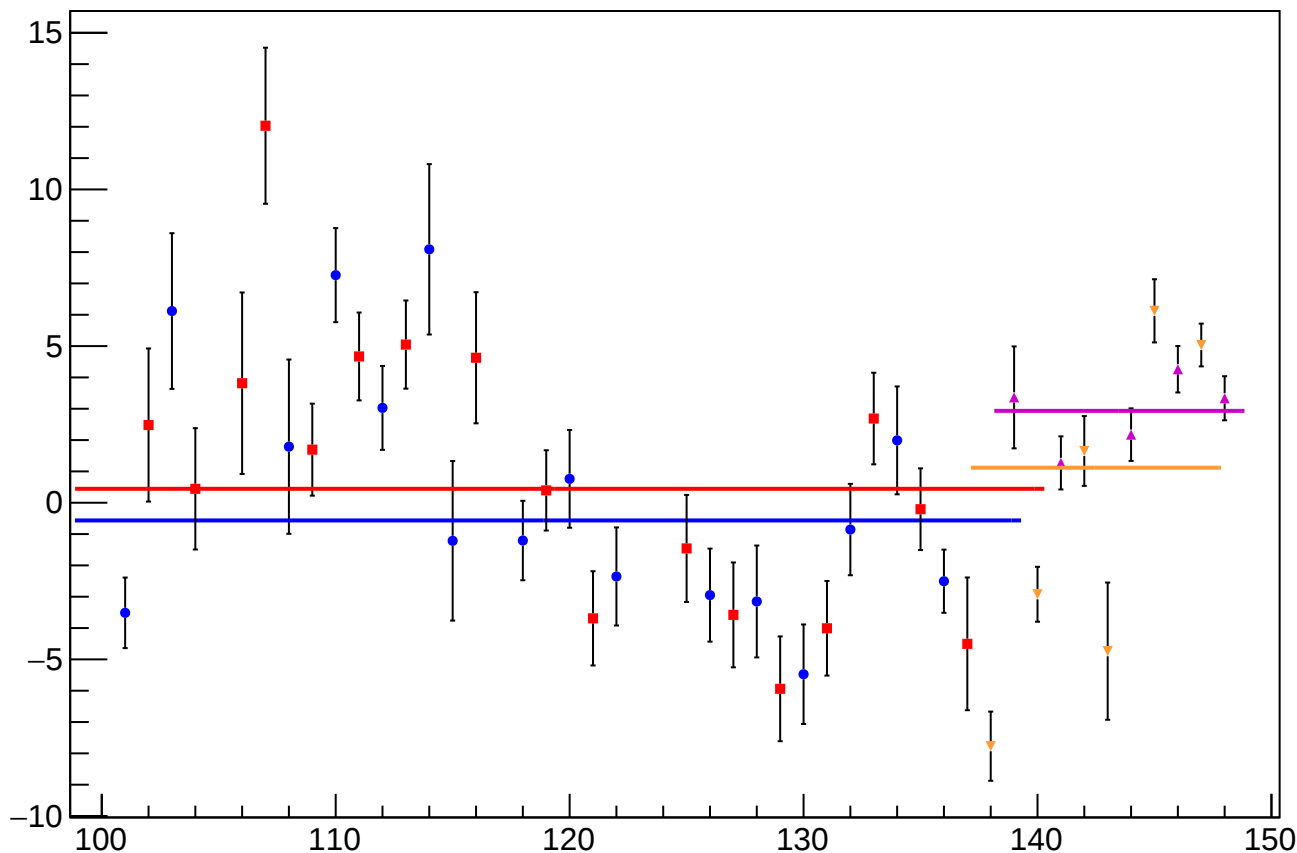
Left In:  $-52.247 \pm 0.449$   $\chi^2/\text{NDF}$ : 257.3/4

+ sign  $-48.670 \pm 0.373$   $\chi^2/\text{NDF}$ : 552.3/21

All:  $-50.558 \pm 0.260$   $\chi^2/\text{NDF}$ : 1077.2/43

- sign  $-52.342 \pm 0.363$   $\chi^2/\text{NDF}$ : 475.1/21

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.565 \pm 0.384$   $\chi^2/\text{NDF}: 81.8/15$

Left Out:  $1.118 \pm 0.400$   $\chi^2/\text{NDF}: 150.9/5$

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}: 94.1/16$

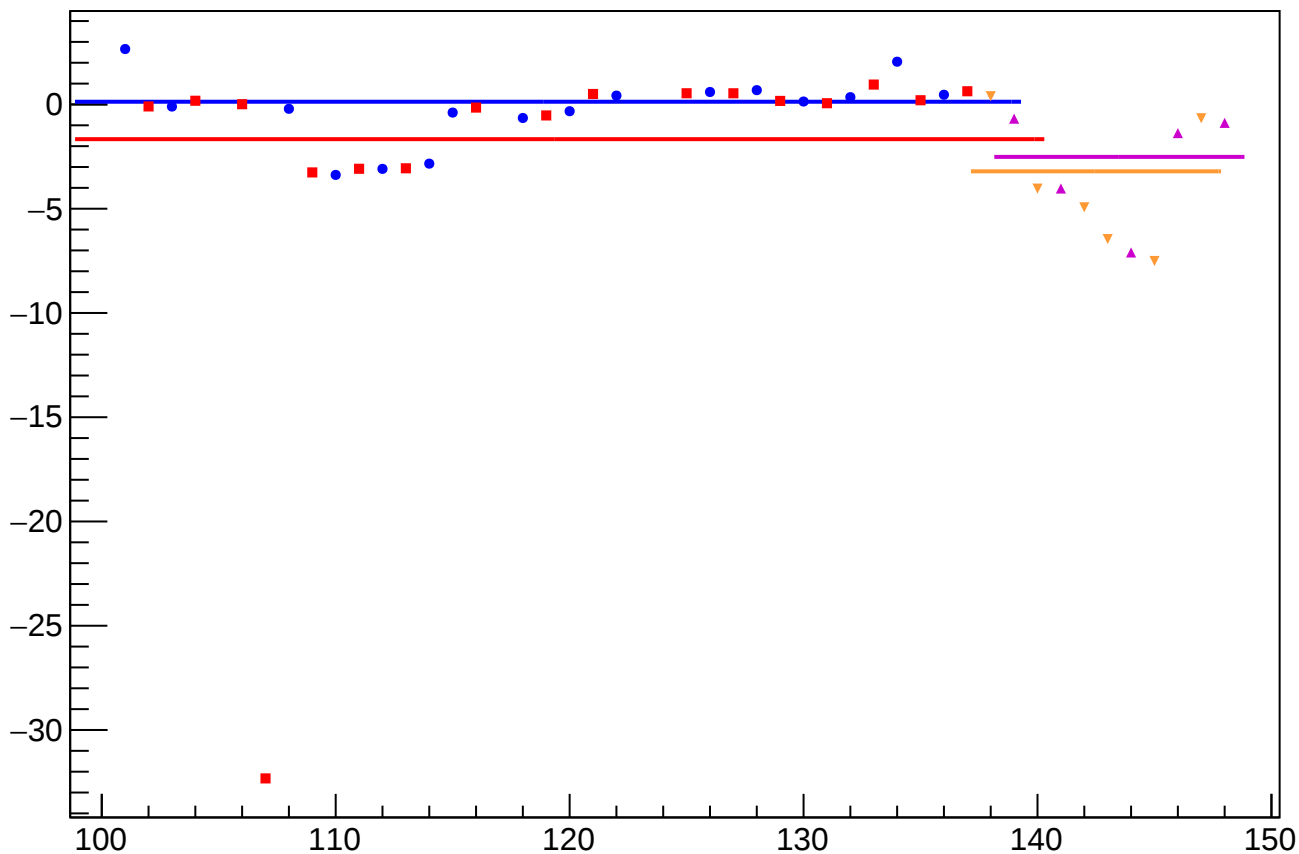
Left In:  $2.933 \pm 0.377$   $\chi^2/\text{NDF}: 8.3/4$

+ sign  $0.244 \pm 0.277$   $\chi^2/\text{NDF}: 242.0/21$

All:  $1.011 \pm 0.195$   $\chi^2/\text{NDF}: 380.0/43$

- sign  $1.763 \pm 0.274$   $\chi^2/\text{NDF}: 122.8/21$

# 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:  $-3.206 \pm 0.020$   $\chi^2/\text{NDF}: 23218.6/5$

Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}: 77602.8/16$

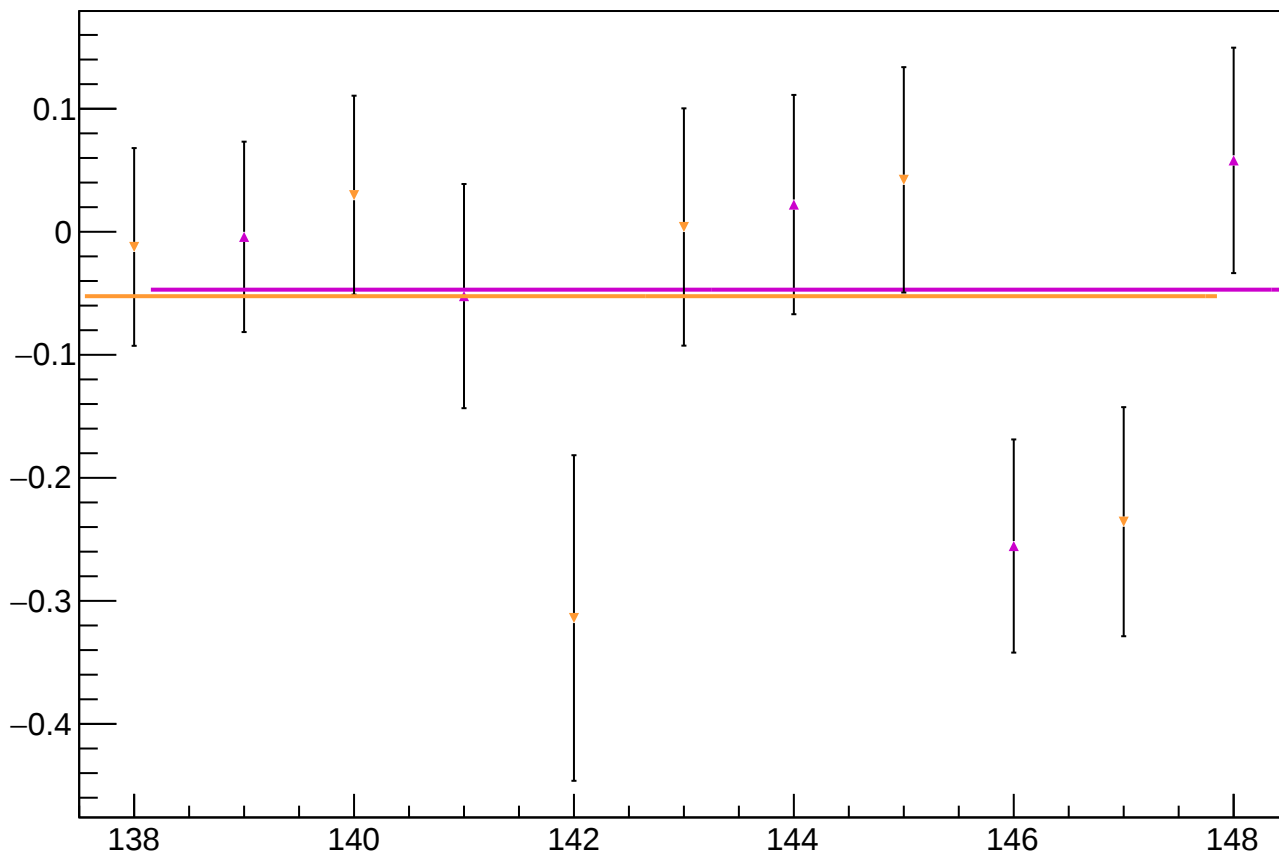
Left In:  $-2.514 \pm 0.019$   $\chi^2/\text{NDF}: 15945.1/4$

+ sign  $-1.684 \pm 0.015$   $\chi^2/\text{NDF}: 41531.5/21$

All:  $-1.929 \pm 0.010$   $\chi^2/\text{NDF}: 136507.9/43$

- sign  $-2.160 \pm 0.014$   $\chi^2/\text{NDF}: 94425.8/21$

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.052 $\pm$ 0.038  $\chi^2$ /NDF: 10.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

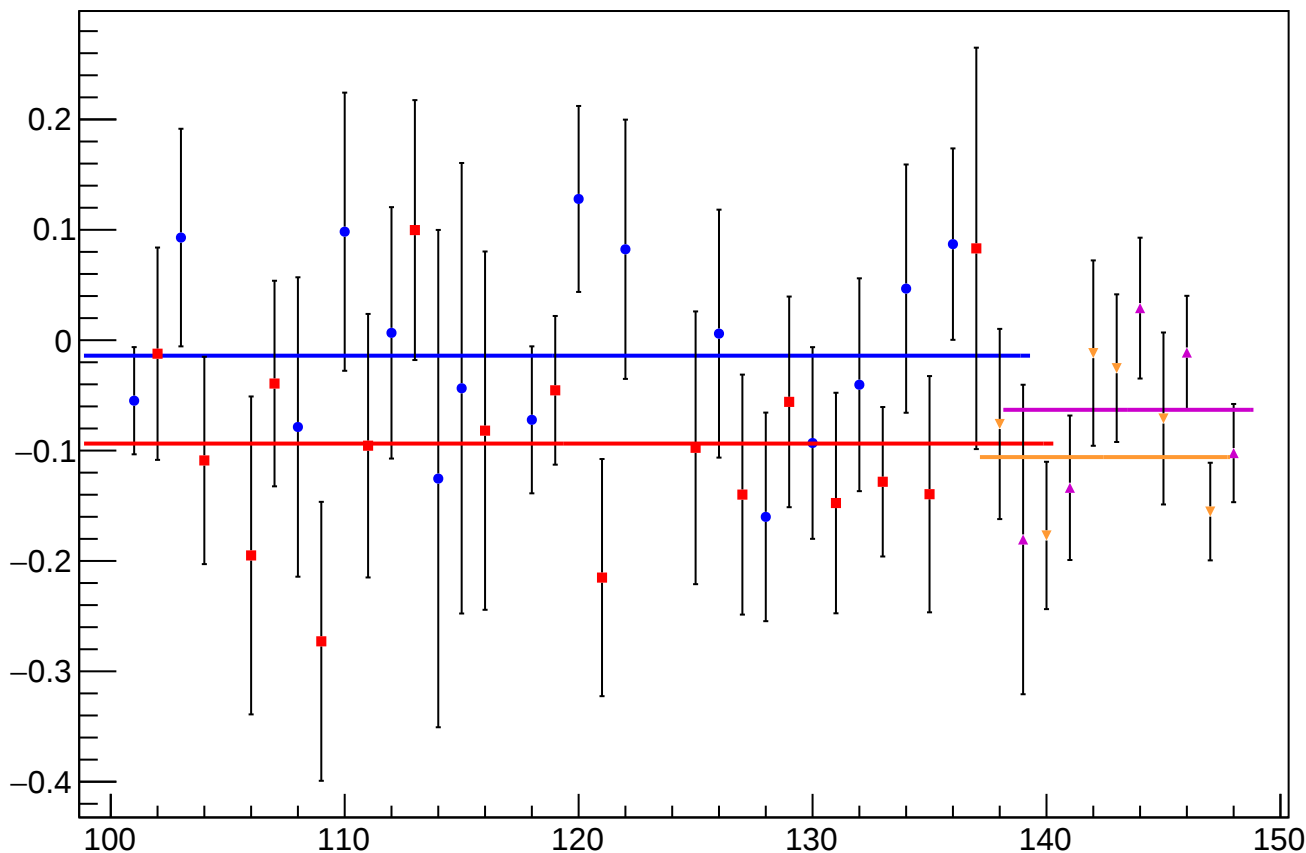
Left In: -0.047 $\pm$ 0.039  $\chi^2$ /NDF: 8.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.050 $\pm$ 0.027  $\chi^2$ /NDF: 18.5/10

- 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:  $-0.106 \pm 0.027$   $\chi^2/\text{NDF}$ : 5.4/5

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

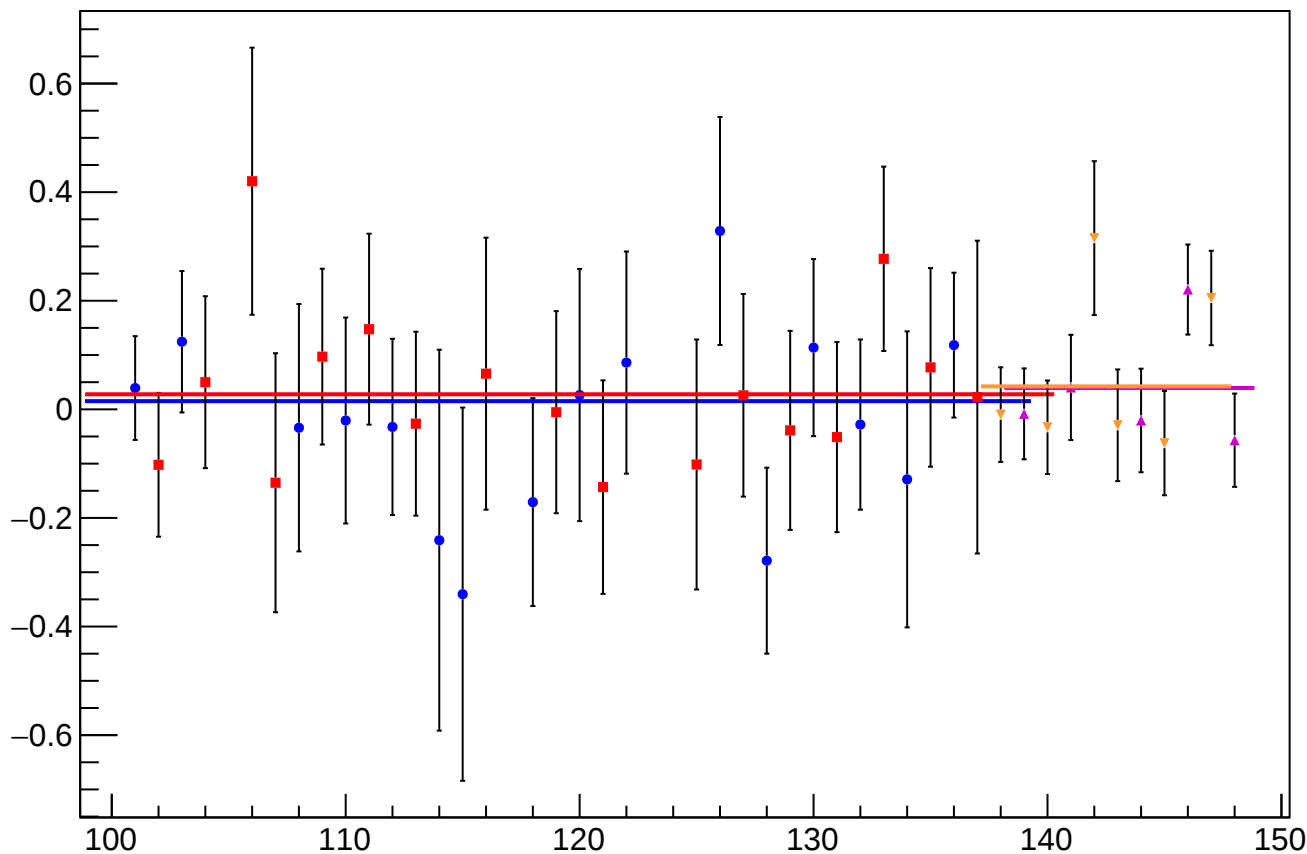
Left In:  $-0.063 \pm 0.027$   $\chi^2/\text{NDF}$ : 5.7/4

+ sign  $-0.054 \pm 0.018$   $\chi^2/\text{NDF}$ : 24.6/21

All:  $-0.066 \pm 0.013$   $\chi^2/\text{NDF}$ : 42.2/43

- sign  $-0.079 \pm 0.018$   $\chi^2/\text{NDF}$ : 16.6/21

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.015 $\pm$ 0.043  $\chi^2$ /NDF: 10.1/15

Left Out: 0.042 $\pm$ 0.039  $\chi^2$ /NDF:10.0/5

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

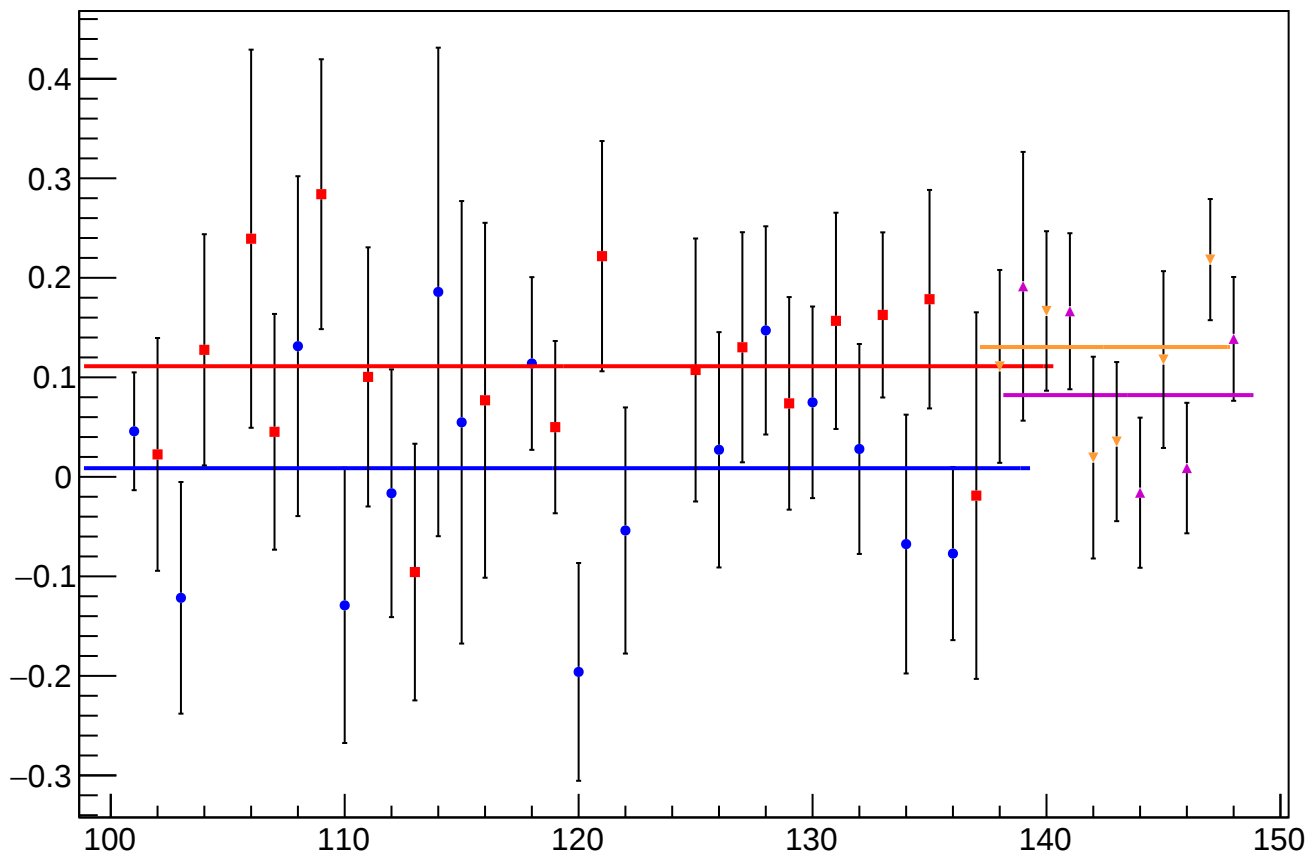
Left In: 0.039 $\pm$ 0.040  $\chi^2$ /NDF:6.7/4

+ sign 0.030 $\pm$ 0.029  $\chi^2$ /NDF: 20.3/21

All: 0.032 $\pm$ 0.021  $\chi^2$ /NDF: 35.6/43

- sign 0.034 $\pm$ 0.030  $\chi^2$ /NDF: 15.2/21

# 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:  $0.130 \pm 0.033$   $\chi^2/\text{NDF}: 5.0/5$

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}: 8.6/16$

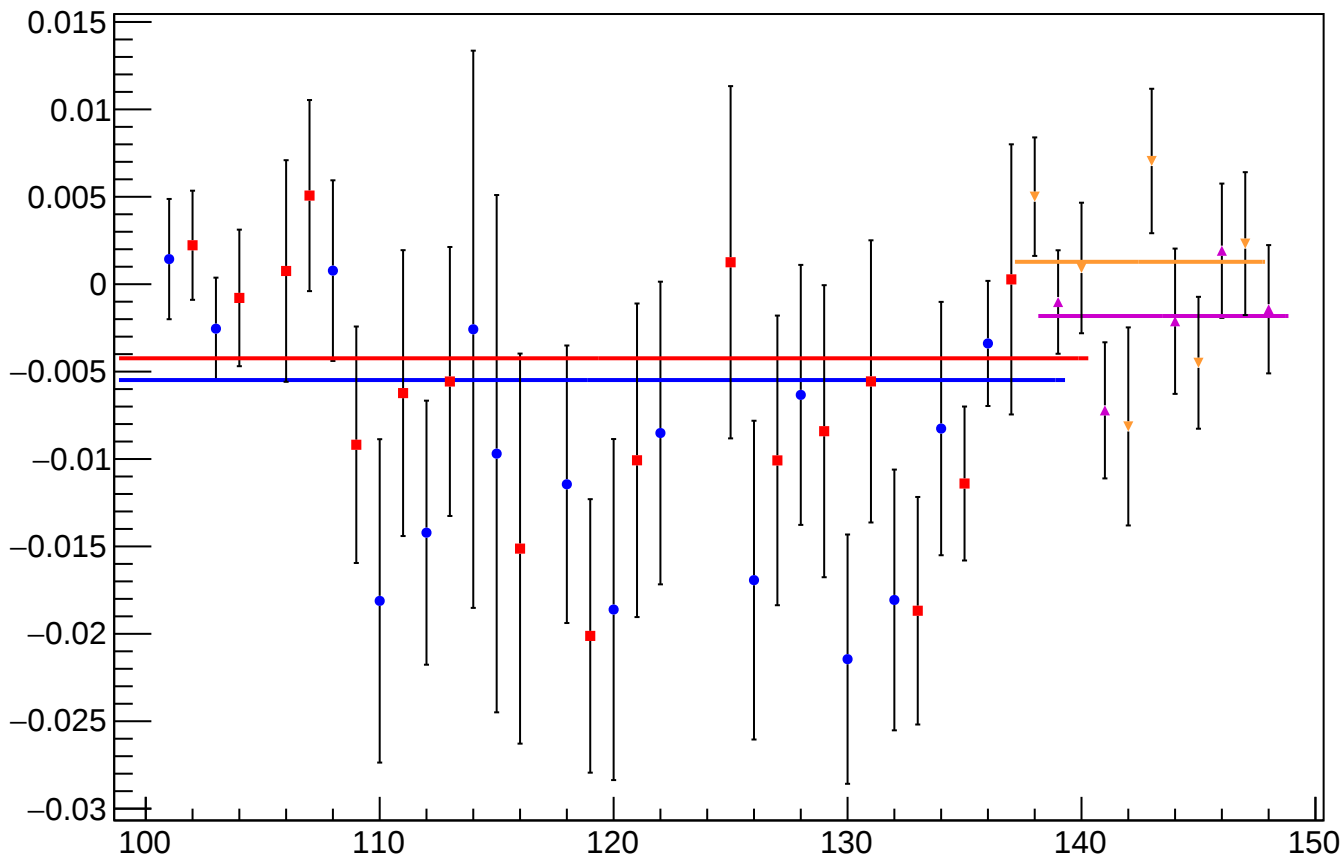
Left In:  $0.082 \pm 0.034$   $\chi^2/\text{NDF}: 5.6/4$

+ sign  $0.057 \pm 0.021$   $\chi^2/\text{NDF}: 25.7/21$

All:  $0.077 \pm 0.015$   $\chi^2/\text{NDF}: 42.2/43$

- sign  $0.099 \pm 0.022$   $\chi^2/\text{NDF}: 14.6/21$

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.005 $\pm$ 0.001  $\chi^2$ /NDF: 22.3/15

Left Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF:8.3/5

Right Out: -0.004 $\pm$ 0.001  $\chi^2$ /NDF: 23.7/16

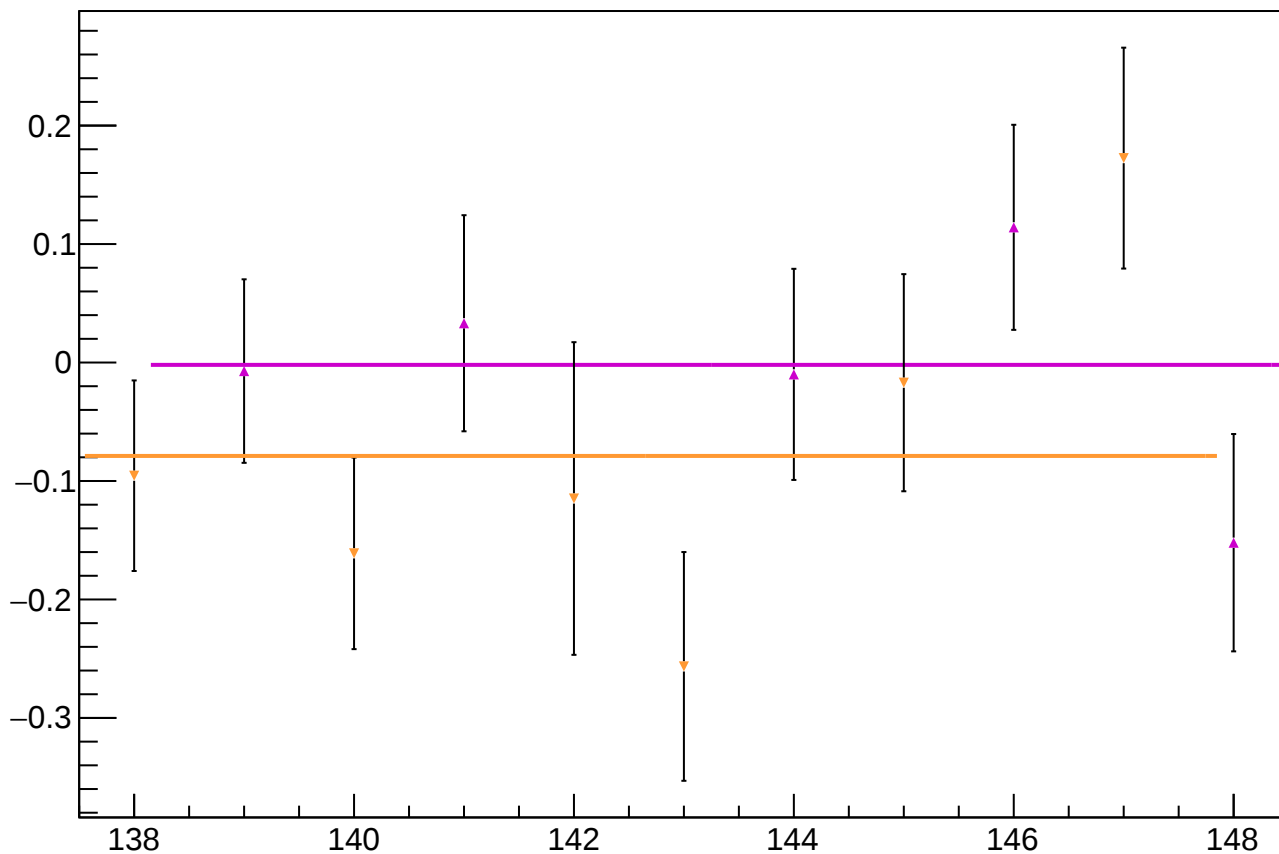
Left In: -0.002 $\pm$ 0.002  $\chi^2$ /NDF:3.0/4

+ sign -0.003 $\pm$ 0.001  $\chi^2$ /NDF: 40.3/21

All: -0.003 $\pm$ 0.001  $\chi^2$ /NDF: 68.4/43

- sign -0.003 $\pm$ 0.001  $\chi^2$ /NDF: 27.9/21

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.079 $\pm$ 0.038  $\chi^2$ /NDF: 12.3/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

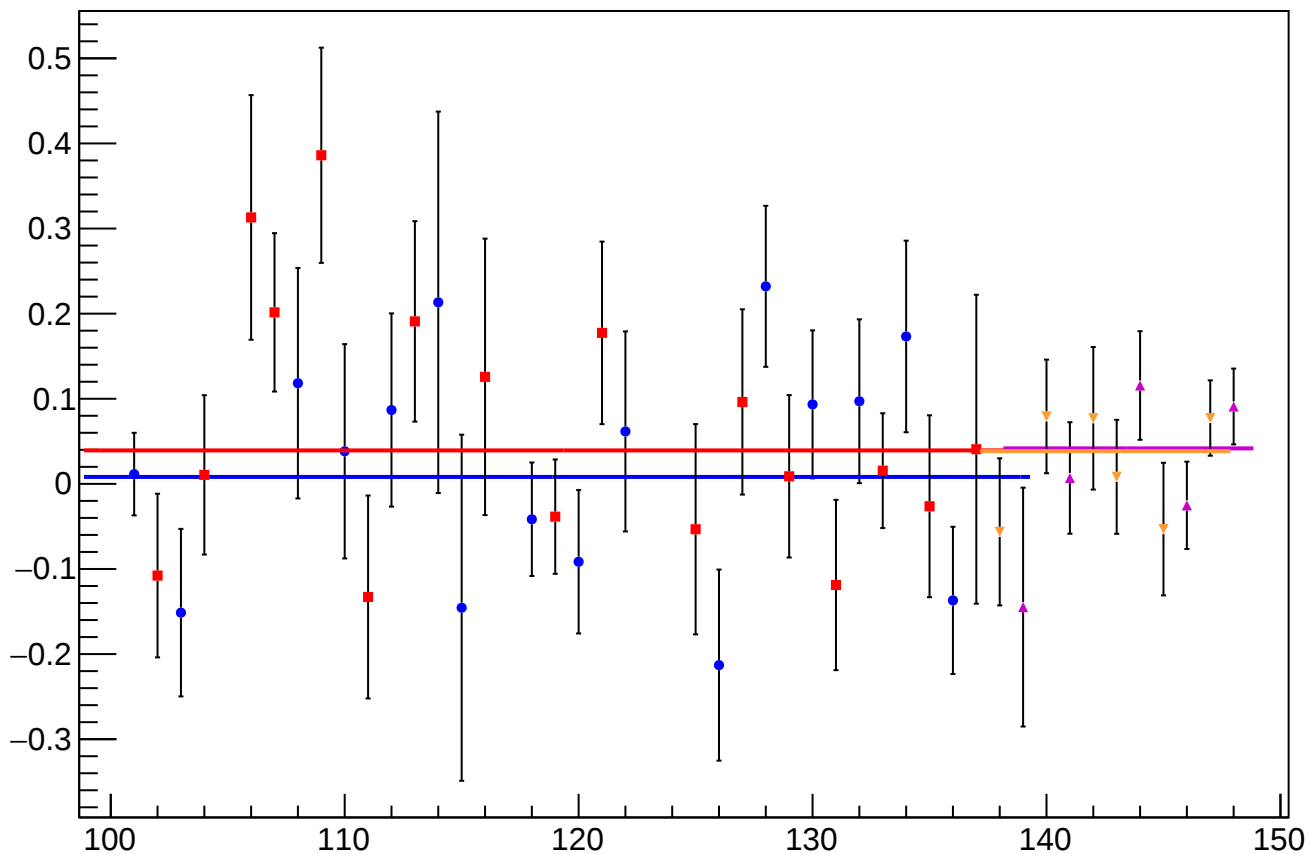
Left In: -0.002 $\pm$ 0.039  $\chi^2$ /NDF: 4.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.042 $\pm$ 0.027  $\chi^2$ /NDF: 18.9/10

- 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:  $0.038 \pm 0.027$   $\chi^2/\text{NDF}$ : 4.1/5

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

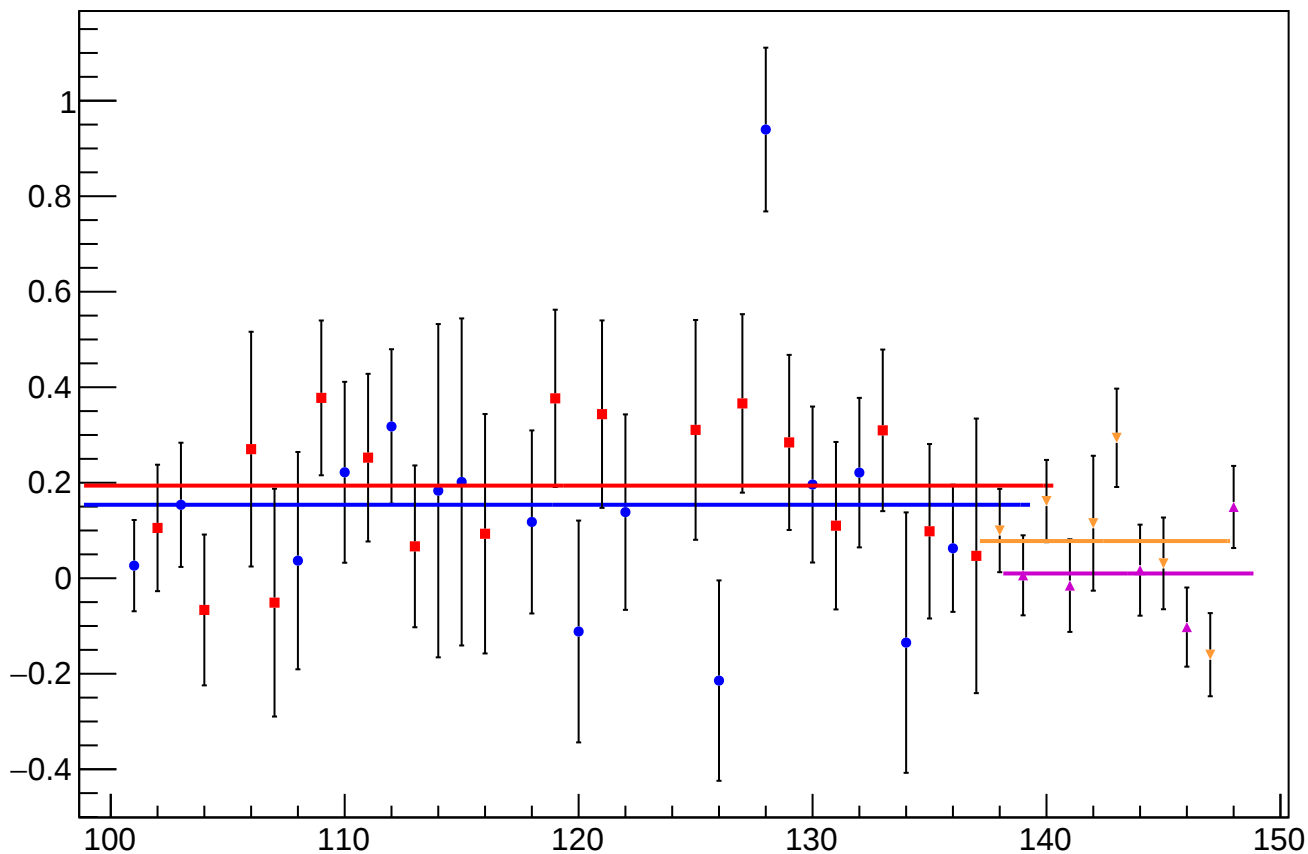
Left In:  $0.042 \pm 0.027$   $\chi^2/\text{NDF}$ : 6.3/4

+ sign  $0.021 \pm 0.018$   $\chi^2/\text{NDF}$ : 28.5/21

All:  $0.031 \pm 0.013$   $\chi^2/\text{NDF}$ : 63.0/43

- sign  $0.040 \pm 0.018$   $\chi^2/\text{NDF}$ : 33.9/21

# 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:  $0.078 \pm 0.039$   $\chi^2/\text{NDF}$ : 13.2/5

Right Out:  $0.194 \pm 0.045$   $\chi^2/\text{NDF}$ : 10.6/16

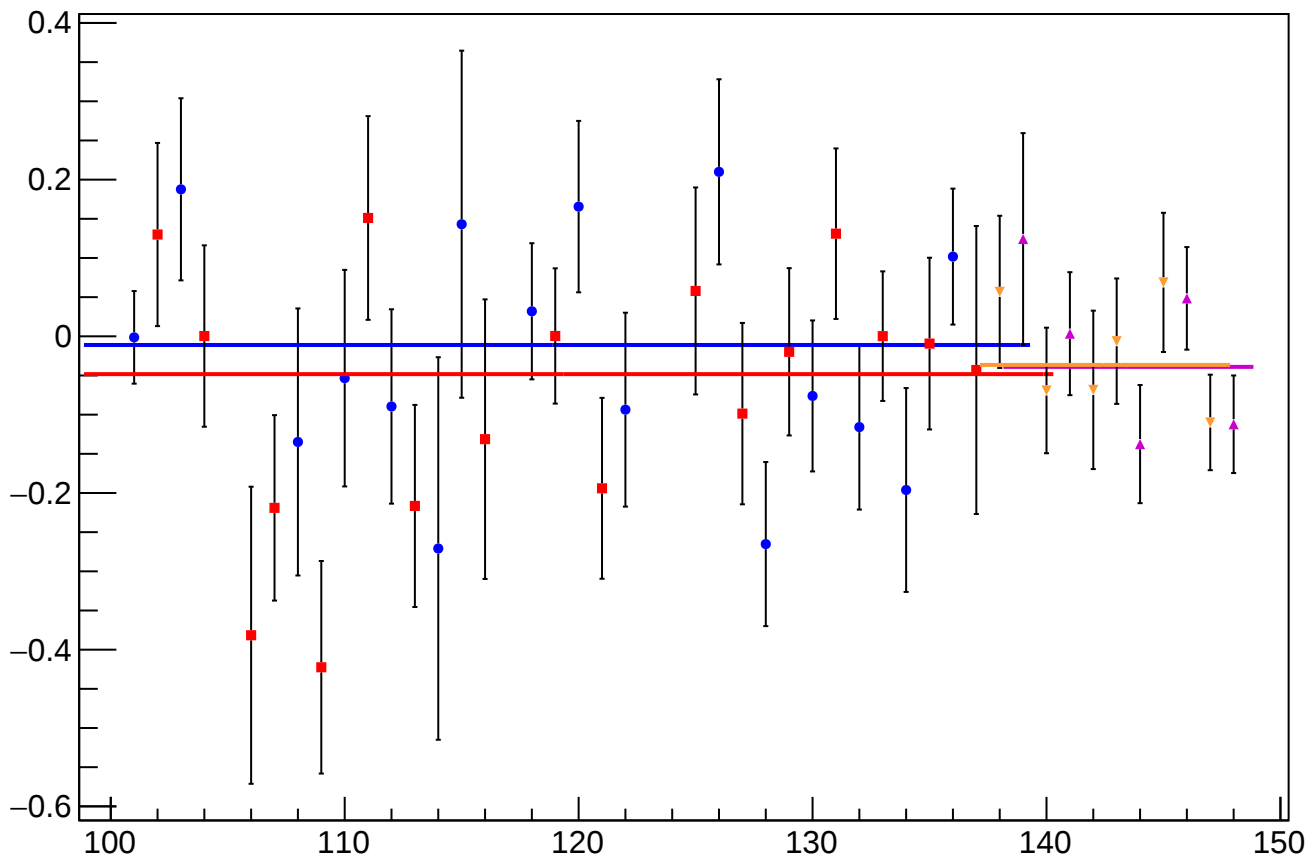
Left In:  $0.010 \pm 0.040$   $\chi^2/\text{NDF}$ : 4.5/4

+ sign  $0.112 \pm 0.029$   $\chi^2/\text{NDF}$ : 45.4/21

All:  $0.102 \pm 0.021$   $\chi^2/\text{NDF}$ : 70.2/43

- sign  $0.090 \pm 0.030$   $\chi^2/\text{NDF}$ : 24.5/21

# 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:  $-0.037 \pm 0.033$   $\chi^2/\text{NDF}$ : 4.2/5

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.6/16

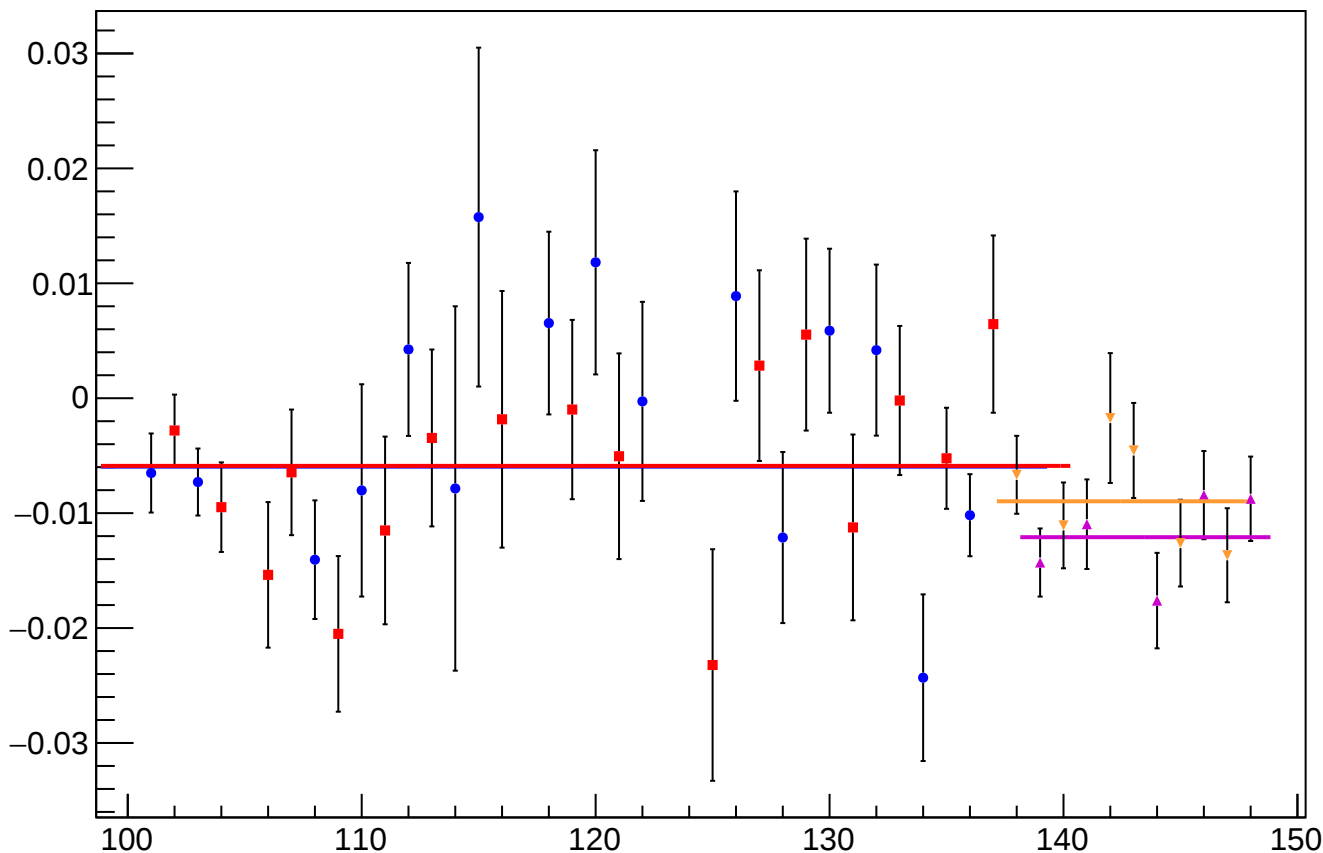
Left In:  $-0.039 \pm 0.034$   $\chi^2/\text{NDF}$ : 6.6/4

+ sign  $-0.021 \pm 0.021$   $\chi^2/\text{NDF}$ : 28.0/21

All:  $-0.032 \pm 0.015$   $\chi^2/\text{NDF}$ : 60.8/43

- sign  $-0.044 \pm 0.022$   $\chi^2/\text{NDF}$ : 32.2/21

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 28.7/15

Left Out: -0.009 $\pm$ 0.002  $\chi^2$ /NDF: 5.8/5

Right Out: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 19.6/16

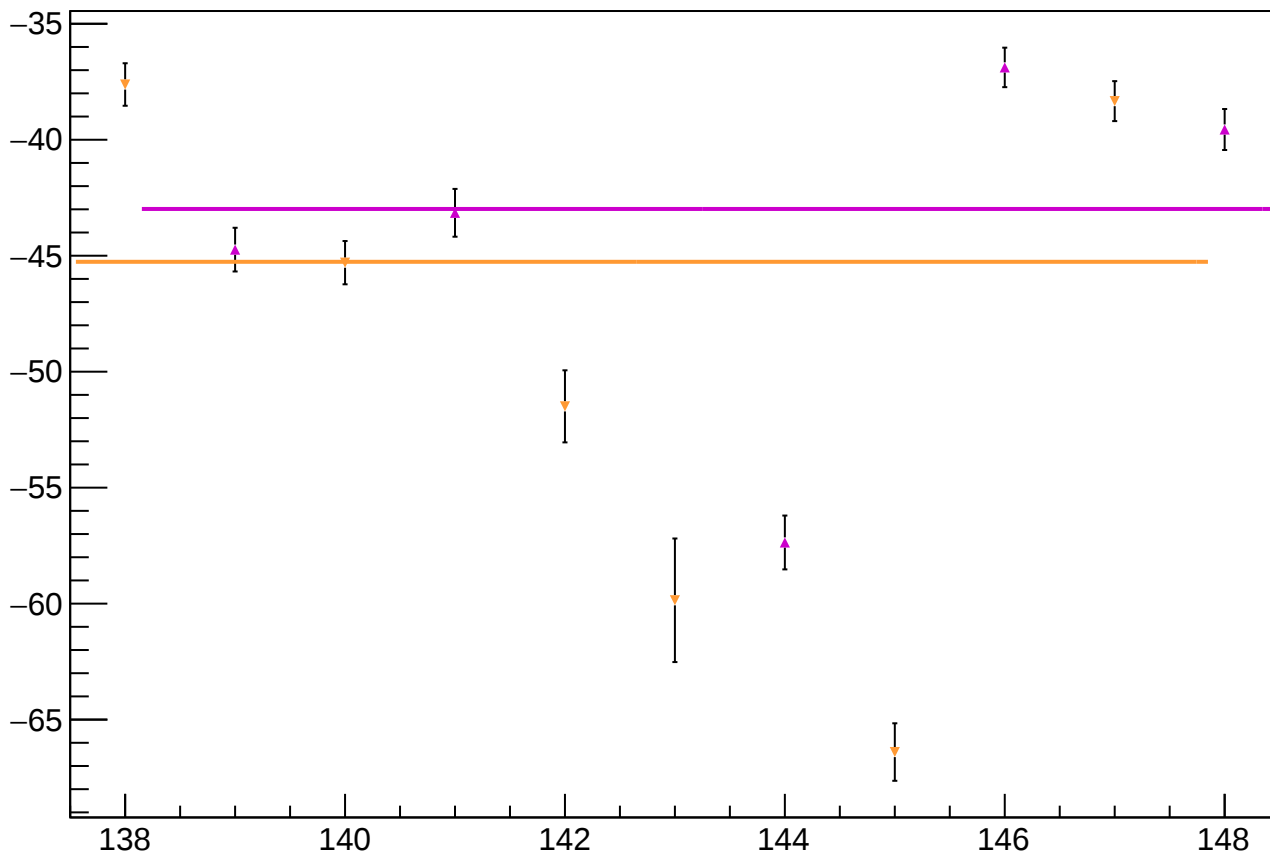
Left In: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 4.1/4

+ sign -0.007 $\pm$ 0.001  $\chi^2$ /NDF: 36.5/21

All: -0.008 $\pm$ 0.001  $\chi^2$ /NDF: 69.1/43

- sign -0.009 $\pm$ 0.001  $\chi^2$ /NDF: 31.7/21

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -45.262+/-0.452  $\chi^2/\text{NDF}$ : 471.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

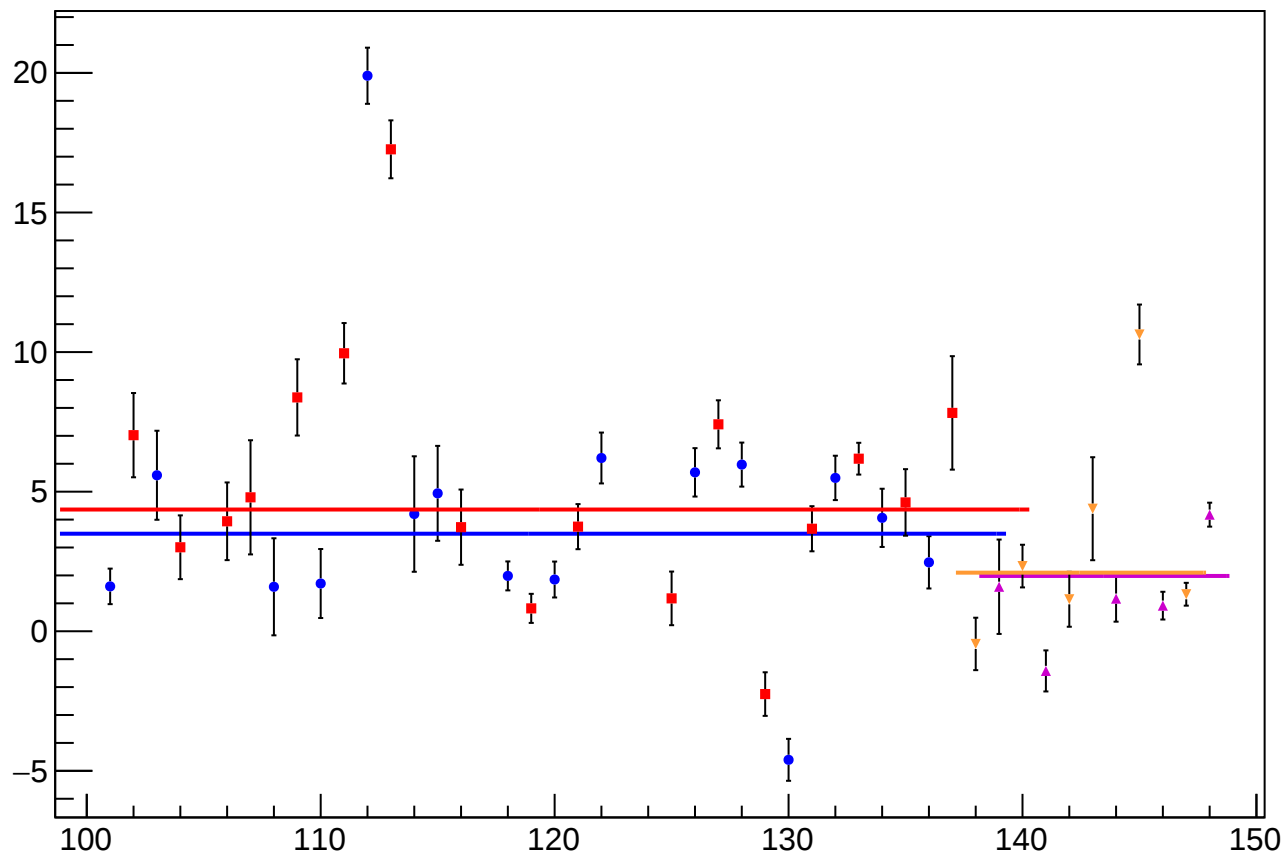
Left In: -42.984+/-0.428  $\chi^2/\text{NDF}$ : 223.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -44.060+/-0.311  $\chi^2/\text{NDF}$ : 708.0/10

- 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:  $2.099 \pm 0.301$   $\chi^2/\text{NDF}: 77.0/5$

Right Out:  $4.360 \pm 0.225$   $\chi^2/\text{NDF}: 351.0/16$

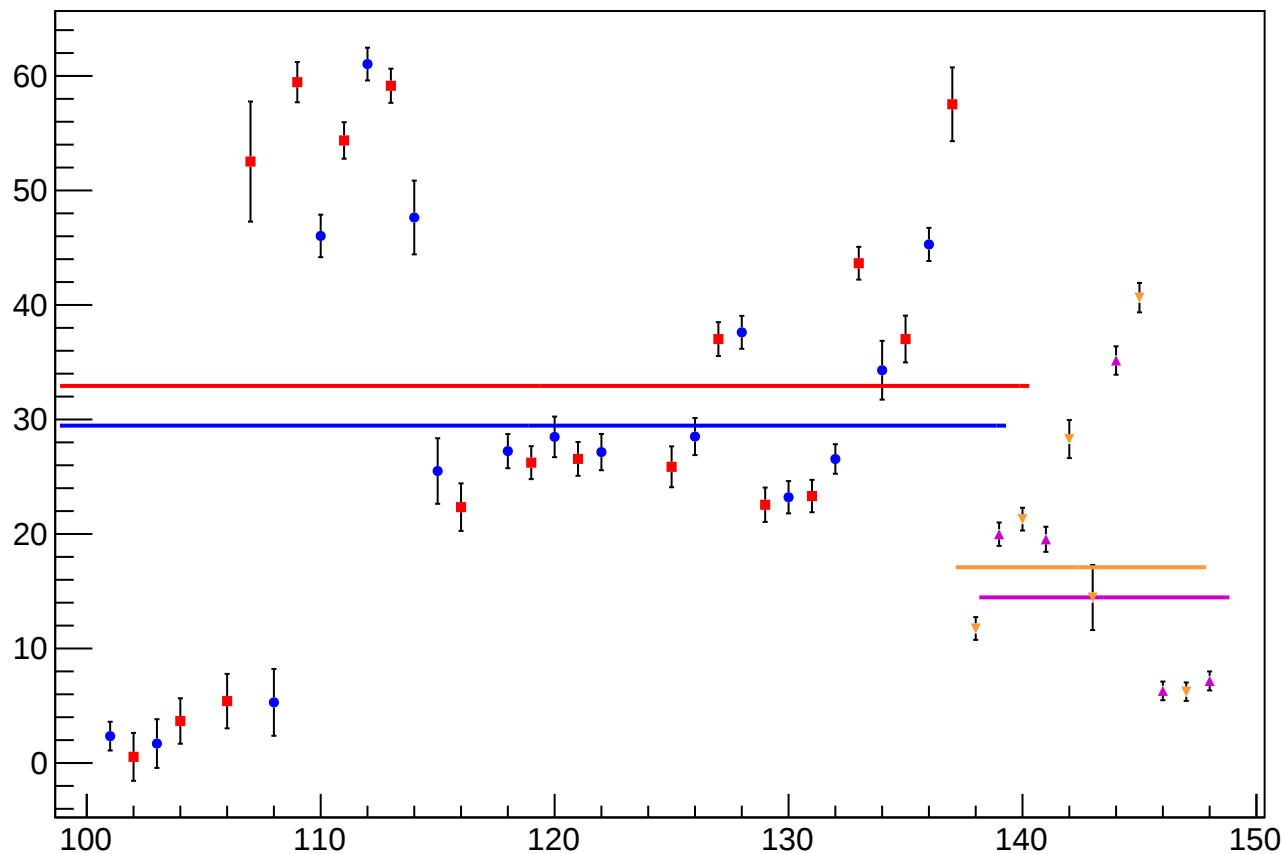
Left In:  $1.981 \pm 0.276$   $\chi^2/\text{NDF}: 53.2/4$

+ sign  $3.015 \pm 0.176$   $\chi^2/\text{NDF}: 536.0/21$

All:  $3.214 \pm 0.124$   $\chi^2/\text{NDF}: 987.2/43$

- sign  $3.408 \pm 0.174$   $\chi^2/\text{NDF}: 448.8/21$

# 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: 17.096 $\pm$ 0.463  $\chi^2/\text{NDF}$ :610.5/5

Right Out: 32.930 $\pm$ 0.423  $\chi^2/\text{NDF}$ : 1624.4/16

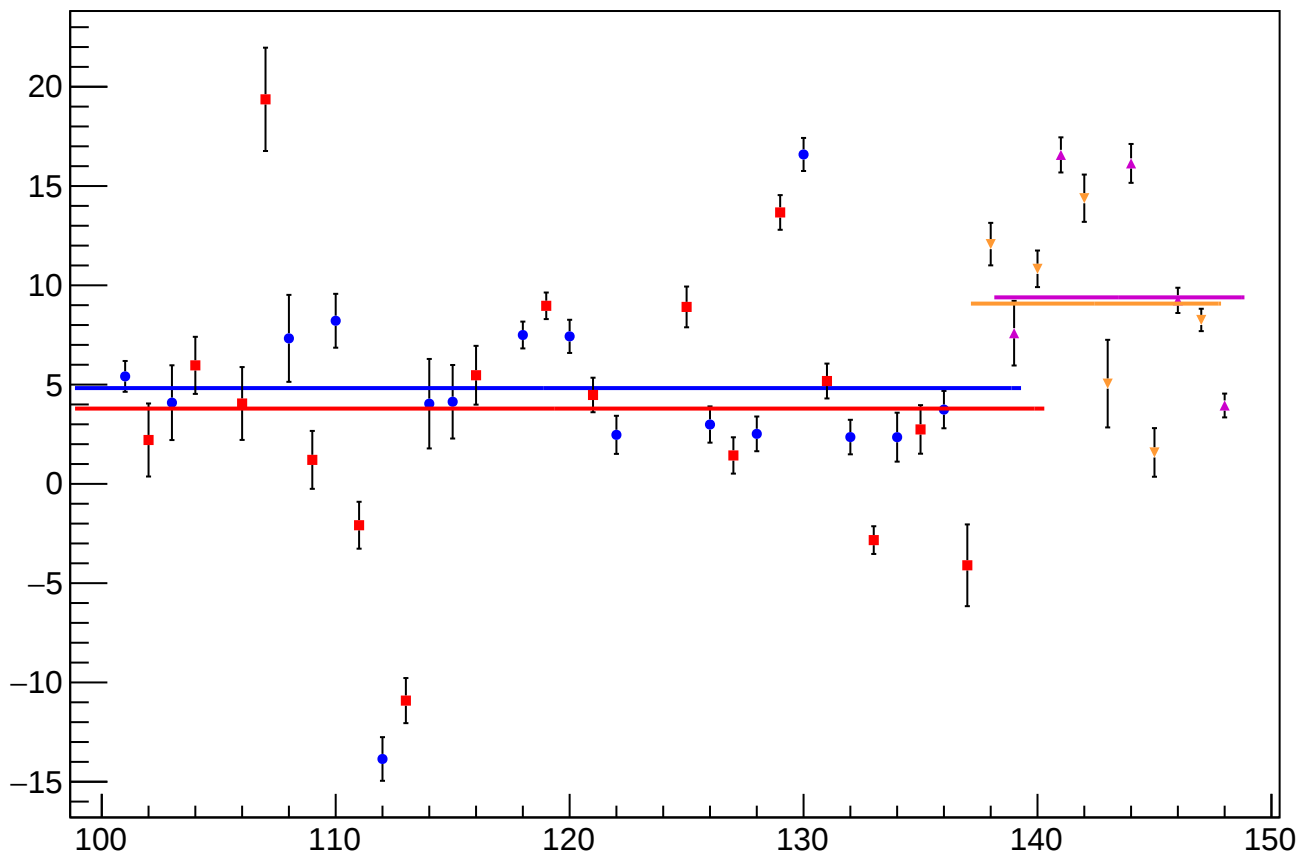
Left In: 14.463 $\pm$ 0.430  $\chi^2/\text{NDF}$ :506.8/4

+ sign 23.919 $\pm$ 0.310  $\chi^2/\text{NDF}$ : 2495.4/21

All: 23.876 $\pm$ 0.216  $\chi^2/\text{NDF}$ : 5563.0/43

- sign 23.836 $\pm$ 0.302  $\chi^2/\text{NDF}$ : 3067.5/21

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 4.824 $\pm$ 0.252  $\chi^2$ /NDF: 552.9/15

Left Out: 9.079 $\pm$ 0.384  $\chi^2$ /NDF: 74.2/5

Right Out: 3.792 $\pm$ 0.259  $\chi^2$ /NDF: 563.6/16

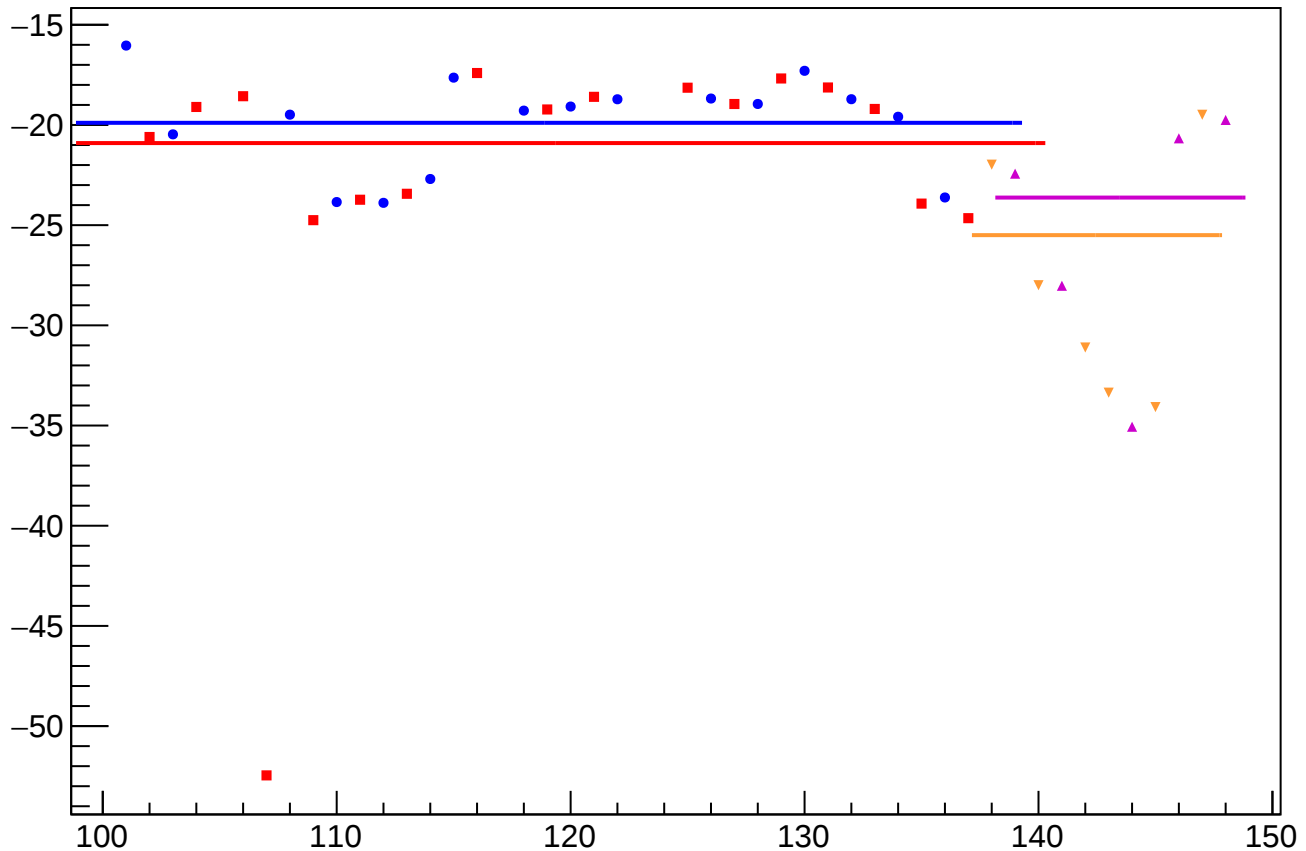
Left In: 9.393 $\pm$ 0.355  $\chi^2$ /NDF: 197.0/4

+ sign 6.103 $\pm$ 0.210  $\chi^2$ /NDF: 713.1/21

All: 5.920 $\pm$ 0.148  $\chi^2$ /NDF: 1637.9/43

- sign 5.740 $\pm$ 0.209  $\chi^2$ /NDF: 923.3/21

# 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:  $-25.498 \pm 0.020$   $\chi^2/\text{NDF}$ : 76782.9/5

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}$ : 92802.8/16

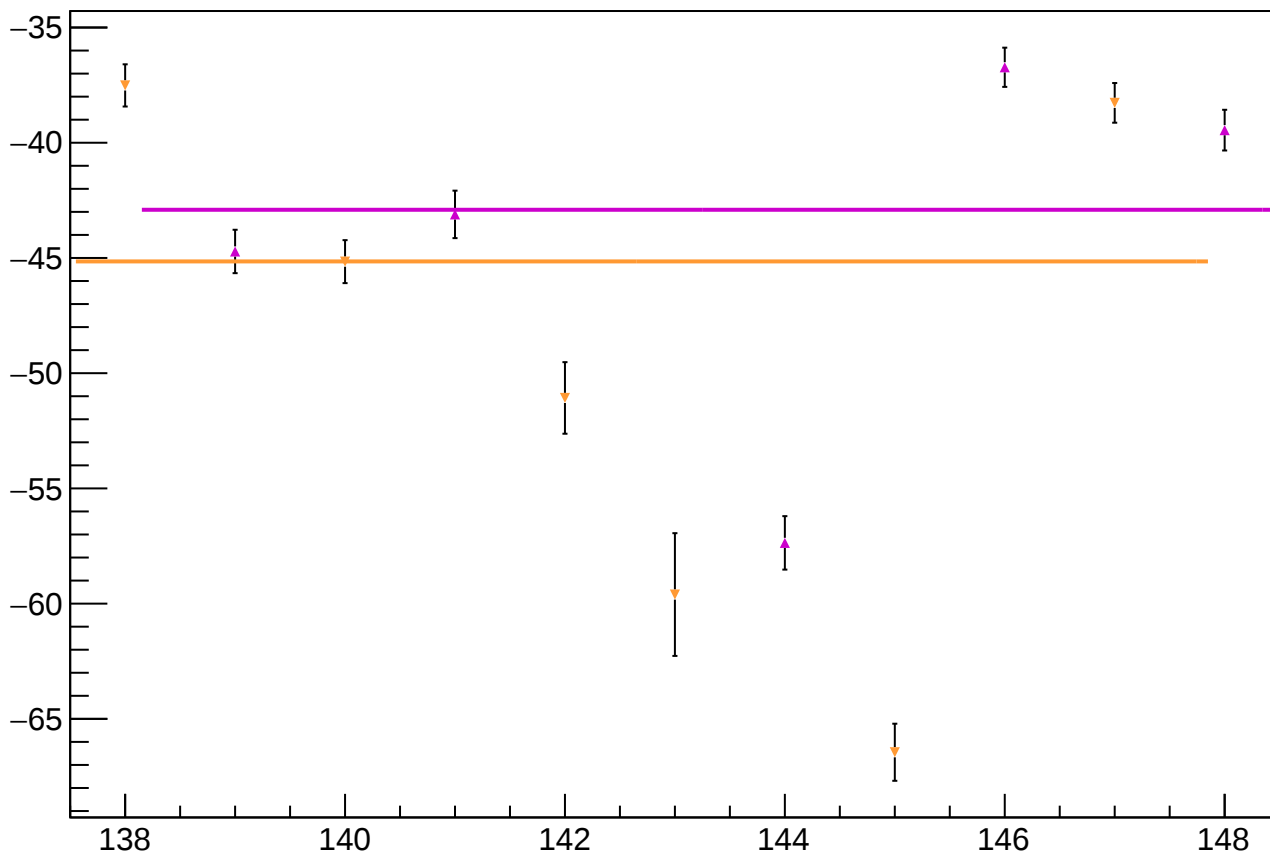
Left In:  $-23.623 \pm 0.018$   $\chi^2/\text{NDF}$ : 73214.4/4

+ sign  $-22.047 \pm 0.012$   $\chi^2/\text{NDF}$ : 152600.4/21

All:  $-22.070 \pm 0.008$   $\chi^2/\text{NDF}$ : 331664.7/43

- sign  $-22.091 \pm 0.012$   $\chi^2/\text{NDF}$ : 179057.6/21

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -45.150+/-0.452  $\chi^2/\text{NDF}$ : 473.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

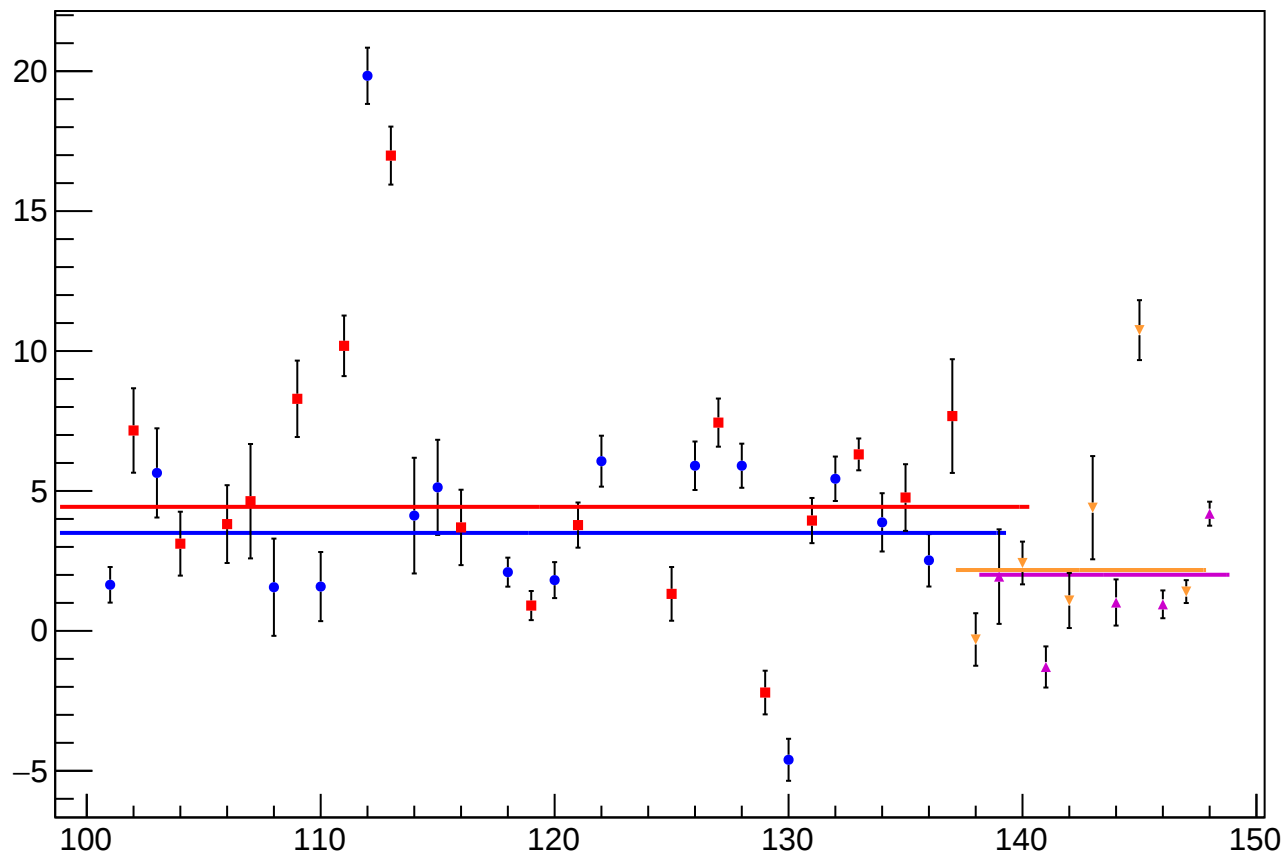
Left In: -42.909+/-0.427  $\chi^2/\text{NDF}$ : 227.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.967+/-0.310  $\chi^2/\text{NDF}$ : 713.2/10

- 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:  $2.175 \pm 0.301$   $\chi^2/\text{NDF}$ : 77.5/5

Right Out:  $4.432 \pm 0.225$   $\chi^2/\text{NDF}$ : 343.6/16

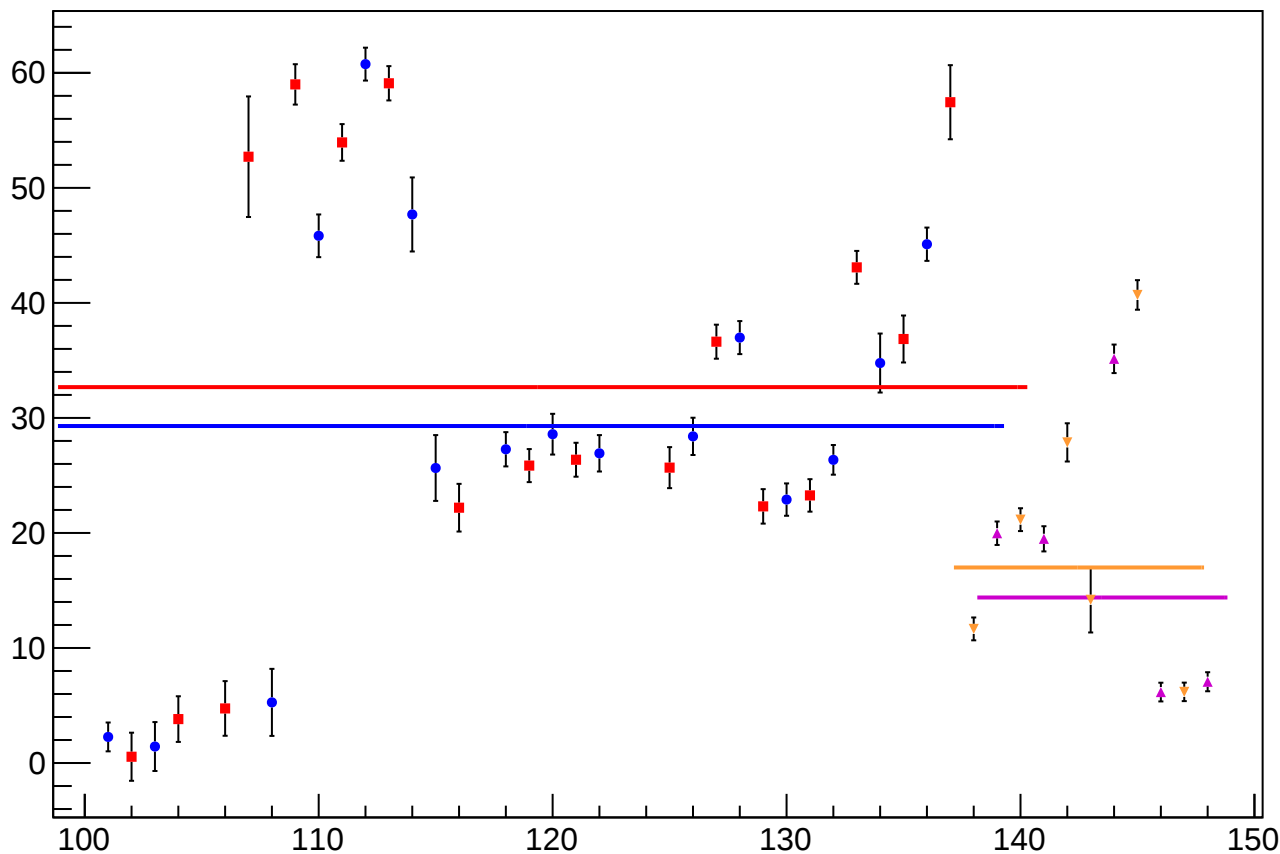
Left In:  $2.006 \pm 0.276$   $\chi^2/\text{NDF}$ : 52.0/4

+ sign  $3.046 \pm 0.176$   $\chi^2/\text{NDF}$ : 532.1/21

All:  $3.256 \pm 0.124$   $\chi^2/\text{NDF}$ : 976.9/43

- sign  $3.461 \pm 0.174$   $\chi^2/\text{NDF}$ : 442.0/21

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.297 $\pm$ 0.417  $\chi^2$ /NDF: 1485.2/15

Left Out: 16.999 $\pm$ 0.463  $\chi^2$ /NDF: 610.9/5

Right Out: 32.679 $\pm$ 0.423  $\chi^2$ /NDF: 1614.8/16

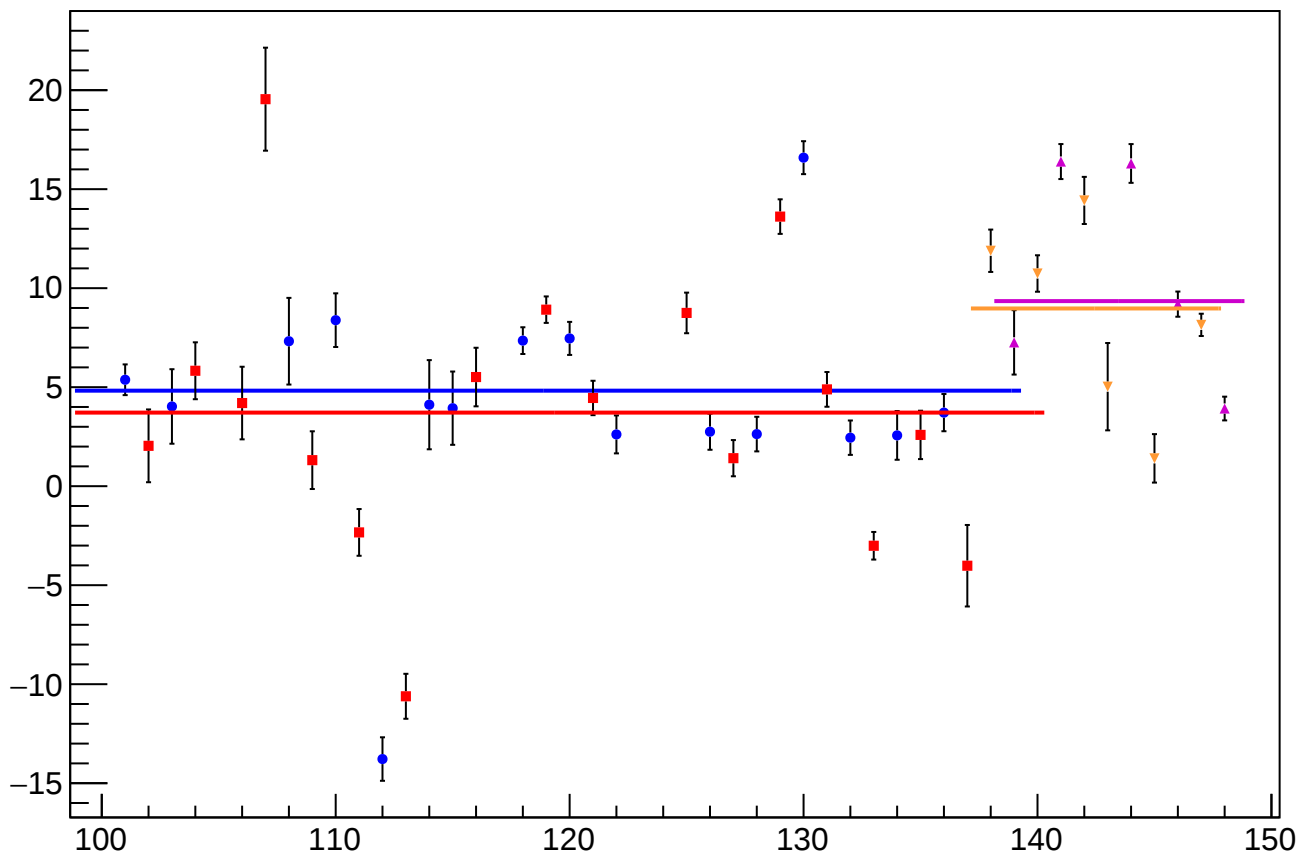
Left In: 14.389 $\pm$ 0.430  $\chi^2$ /NDF: 512.1/4

+ sign 23.784 $\pm$ 0.310  $\chi^2$ /NDF: 2485.6/21

All: 23.727 $\pm$ 0.216  $\chi^2$ /NDF: 5532.2/43

- sign 23.674 $\pm$ 0.302  $\chi^2$ /NDF: 3046.5/21

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}$ : 549.2/15

Left Out:  $8.975 \pm 0.384$   $\chi^2/\text{NDF}$ : 75.8/5

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}$ : 559.9/16

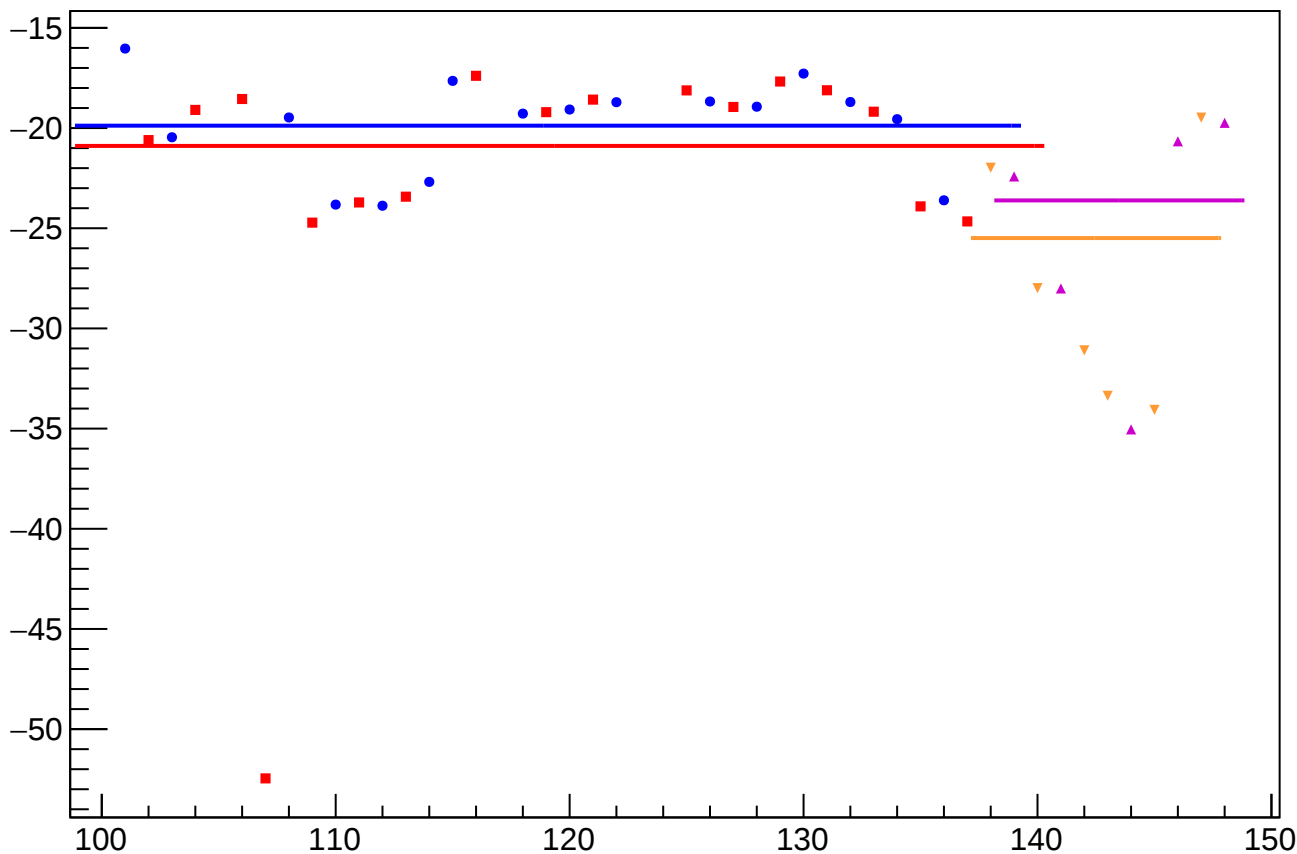
Left In:  $9.347 \pm 0.354$   $\chi^2/\text{NDF}$ : 197.7/4

+ sign  $6.071 \pm 0.210$   $\chi^2/\text{NDF}$ : 706.8/21

All:  $5.871 \pm 0.148$   $\chi^2/\text{NDF}$ : 1630.8/43

- sign  $5.674 \pm 0.209$   $\chi^2/\text{NDF}$ : 922.2/21

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -19.880+/-0.016  $\chi^2/\text{NDF}$ : 26082.0/15

Left Out: -25.490+/-0.020  $\chi^2/\text{NDF}$ : 76829.0/5

Right Out: -20.891+/-0.016  $\chi^2/\text{NDF}$ : 92913.6/16

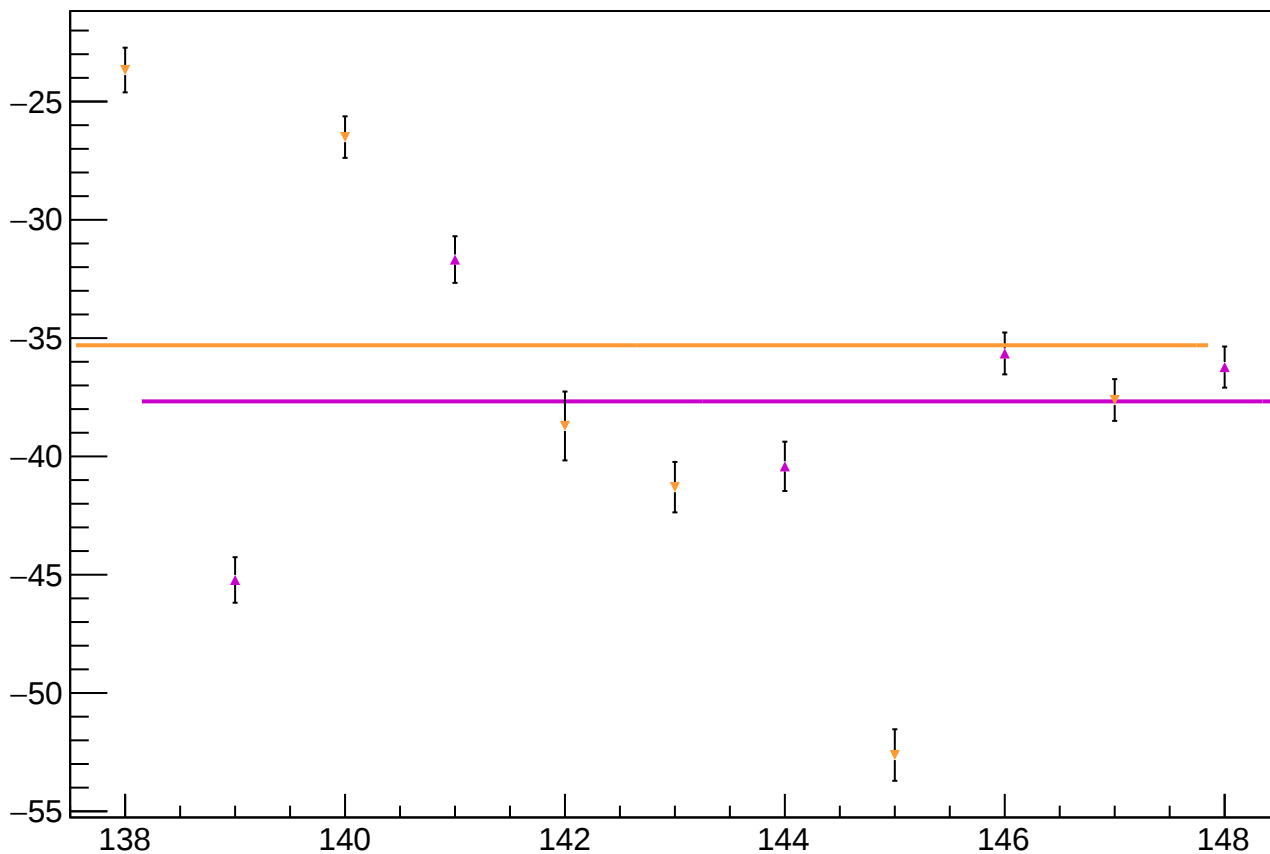
Left In: -23.611+/-0.018  $\chi^2/\text{NDF}$ : 73171.3/4

+ sign -22.036+/-0.012  $\chi^2/\text{NDF}$ : 152756.0/21

All: -22.058+/-0.008  $\chi^2/\text{NDF}$ : 331908.3/43

- sign -22.078+/-0.012  $\chi^2/\text{NDF}$ : 179146.2/21

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -35.302 $\pm$ 0.412  $\chi^2$ /NDF: 548.9/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

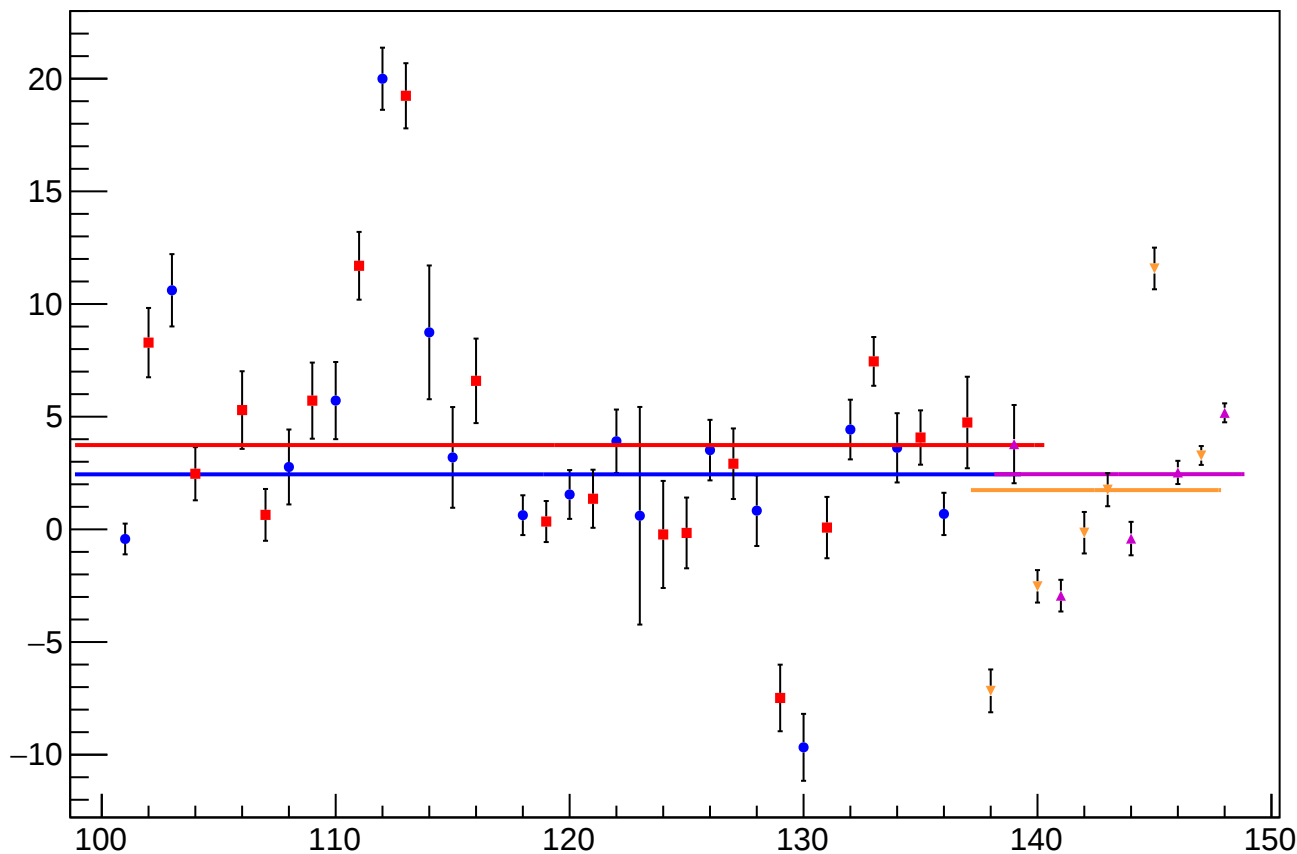
Left In: -37.674 $\pm$ 0.421  $\chi^2$ /NDF: 113.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.461 $\pm$ 0.295  $\chi^2$ /NDF: 678.7/10

- 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:  $1.742 \pm 0.278$   $\chi^2/\text{NDF}$ : 253.9/5

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.1/17

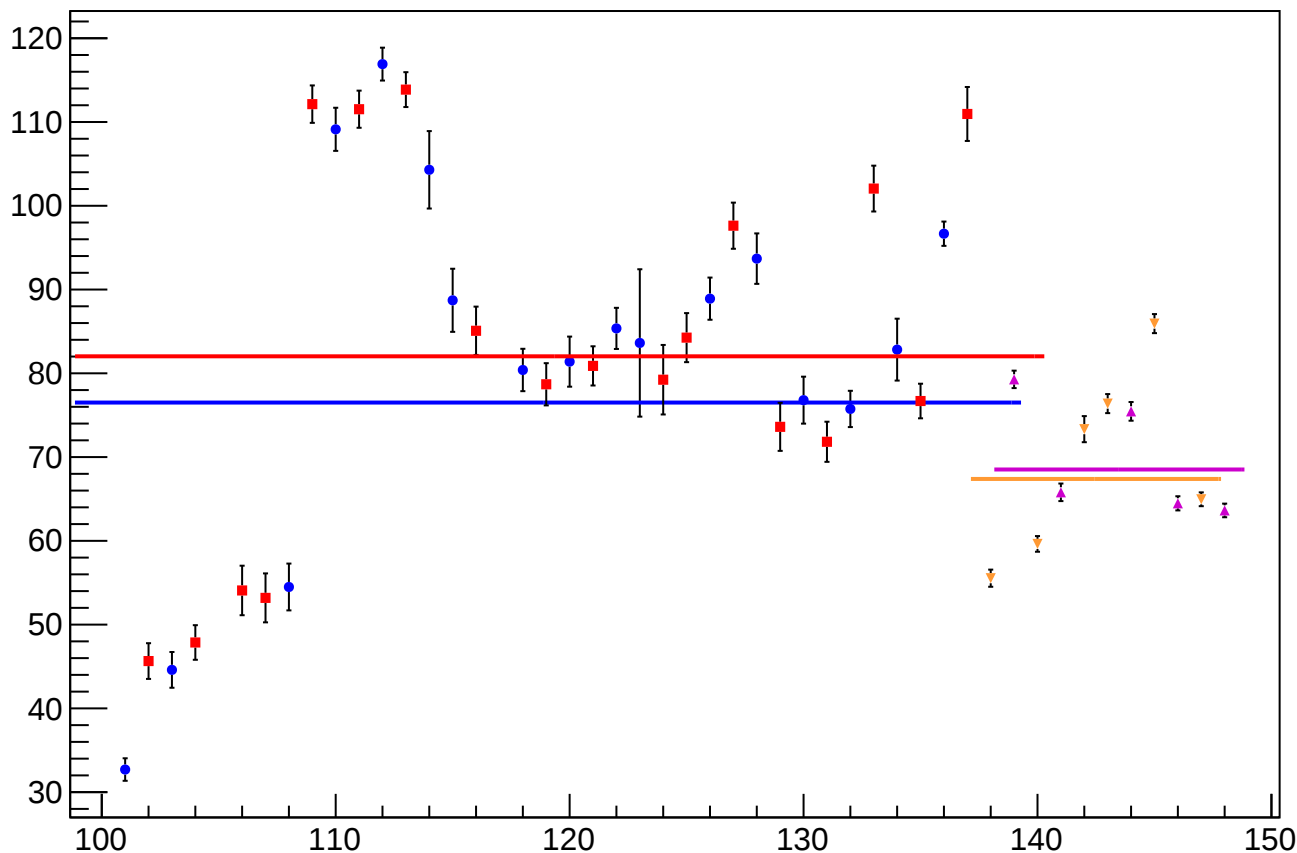
Left In:  $2.449 \pm 0.271$   $\chi^2/\text{NDF}$ : 116.0/4

+ sign  $2.052 \pm 0.207$   $\chi^2/\text{NDF}$ : 551.4/22

All:  $2.511 \pm 0.147$   $\chi^2/\text{NDF}$ : 954.7/45

- sign  $2.976 \pm 0.209$   $\chi^2/\text{NDF}$ : 393.4/22

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 67.389 $\pm$ 0.425  $\chi^2$ /NDF: 554.3/5

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

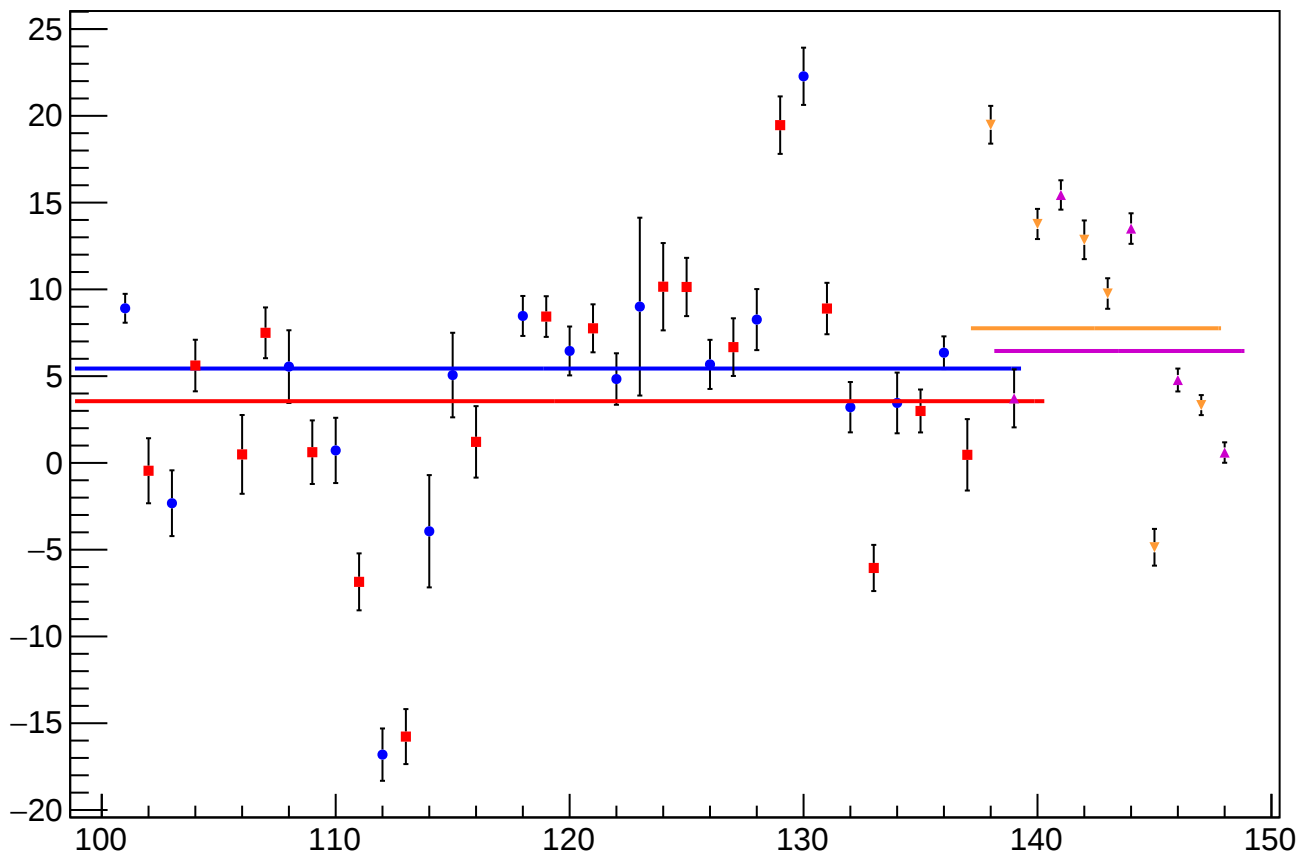
Left In: 68.518 $\pm$ 0.425  $\chi^2$ /NDF: 211.2/4

+ sign 70.621 $\pm$ 0.342  $\chi^2$ /NDF: 2968.0/22

All: 71.849 $\pm$ 0.243  $\chi^2$ /NDF: 5096.7/45

- sign 73.102 $\pm$ 0.345  $\chi^2$ /NDF: 2102.6/22

# 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:  $7.759 \pm 0.350$   $\chi^2/\text{NDF}: 391.1/5$

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}: 420.6/17$

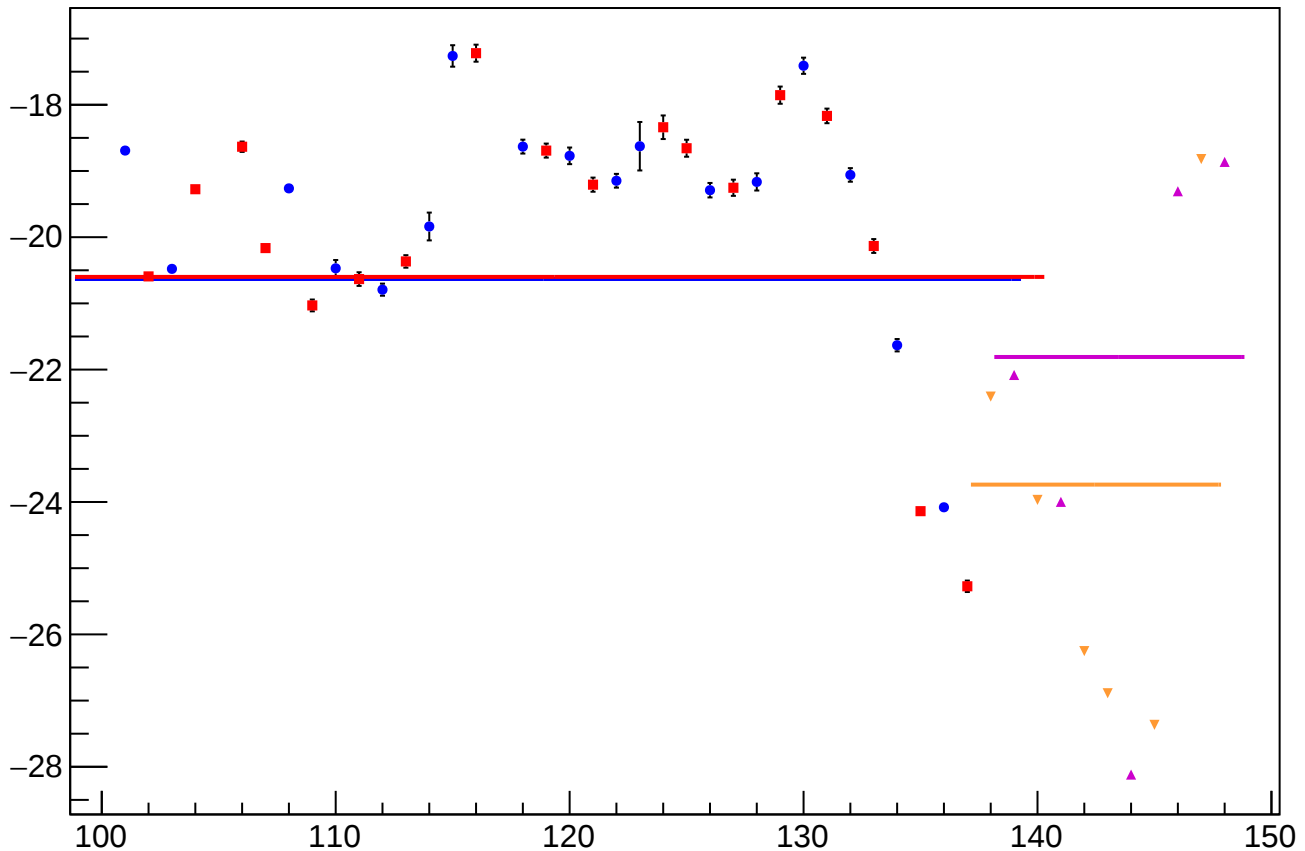
Left In:  $6.450 \pm 0.349$   $\chi^2/\text{NDF}: 284.9/4$

+ sign  $6.624 \pm 0.250$   $\chi^2/\text{NDF}: 798.8/22$

All:  $5.882 \pm 0.179$   $\chi^2/\text{NDF}: 1554.1/45$

- sign  $5.109 \pm 0.255$   $\chi^2/\text{NDF}: 737.4/22$

# 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:  $-23.737 \pm 0.018$   $\chi^2/\text{NDF}$ : 30045.8/5

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}$ : 11973.7/17

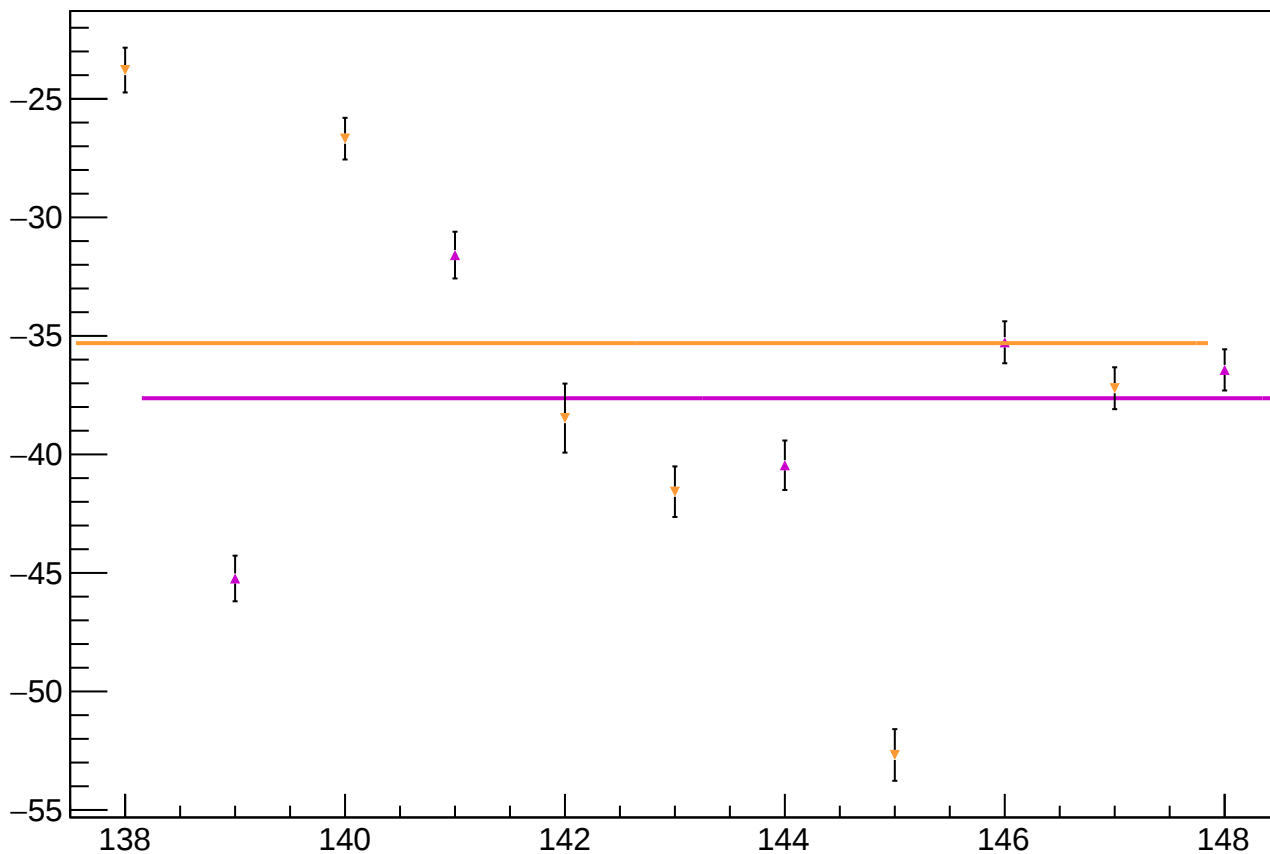
Left In:  $-21.810 \pm 0.018$   $\chi^2/\text{NDF}$ : 30721.0/4

+ sign  $-22.296 \pm 0.013$   $\chi^2/\text{NDF}$ : 56435.8/22

All:  $-21.777 \pm 0.009$   $\chi^2/\text{NDF}$ : 104351.1/45

- sign  $-21.263 \pm 0.013$   $\chi^2/\text{NDF}$ : 44811.4/22

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -35.305+/-0.412  $\chi^2/\text{NDF}$ : 543.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

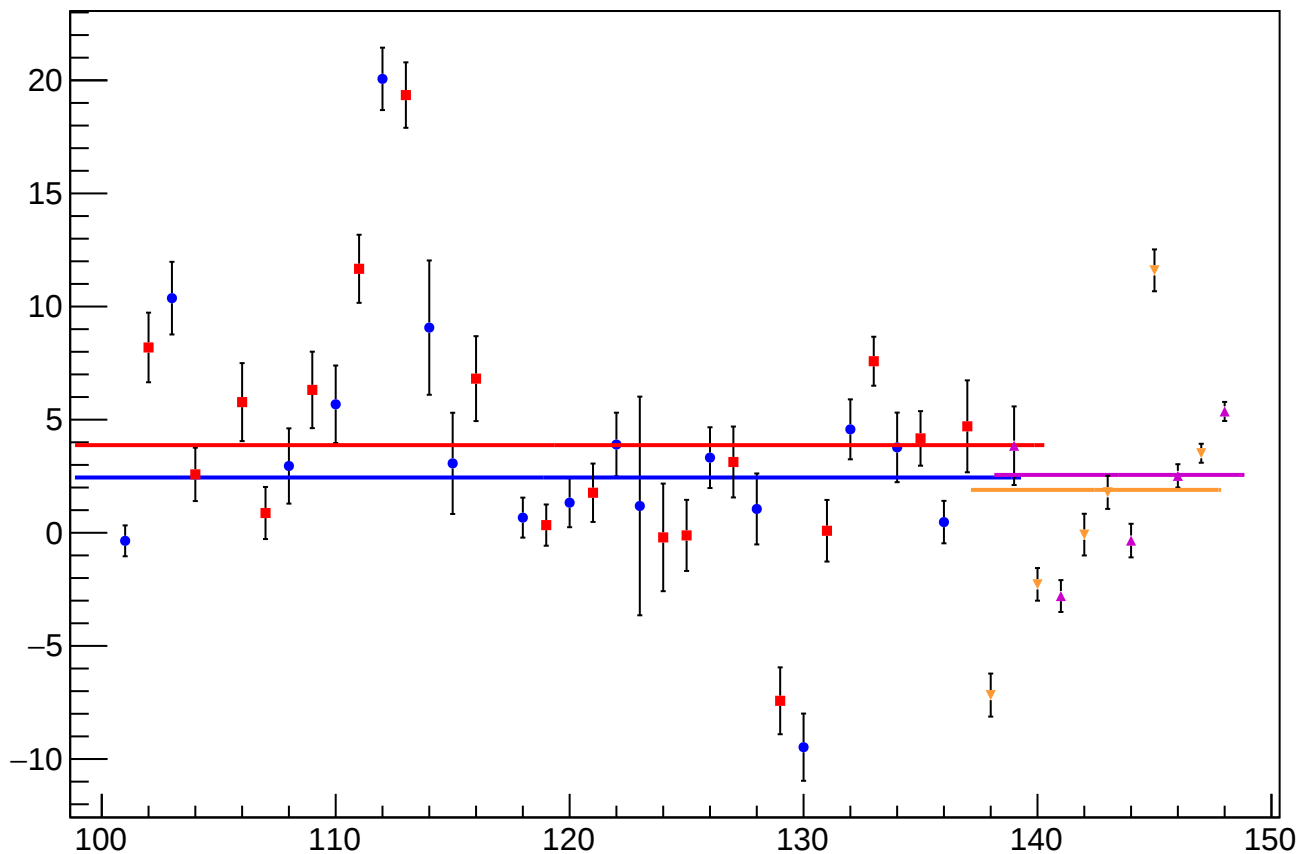
Left In: -37.630+/-0.422  $\chi^2/\text{NDF}$ : 116.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -36.441+/-0.295  $\chi^2/\text{NDF}$ : 674.8/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.444 \pm 0.312$   $\chi^2/\text{NDF}$ : 292.7/16

Left Out:  $1.896 \pm 0.278$   $\chi^2/\text{NDF}$ : 254.2/5

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

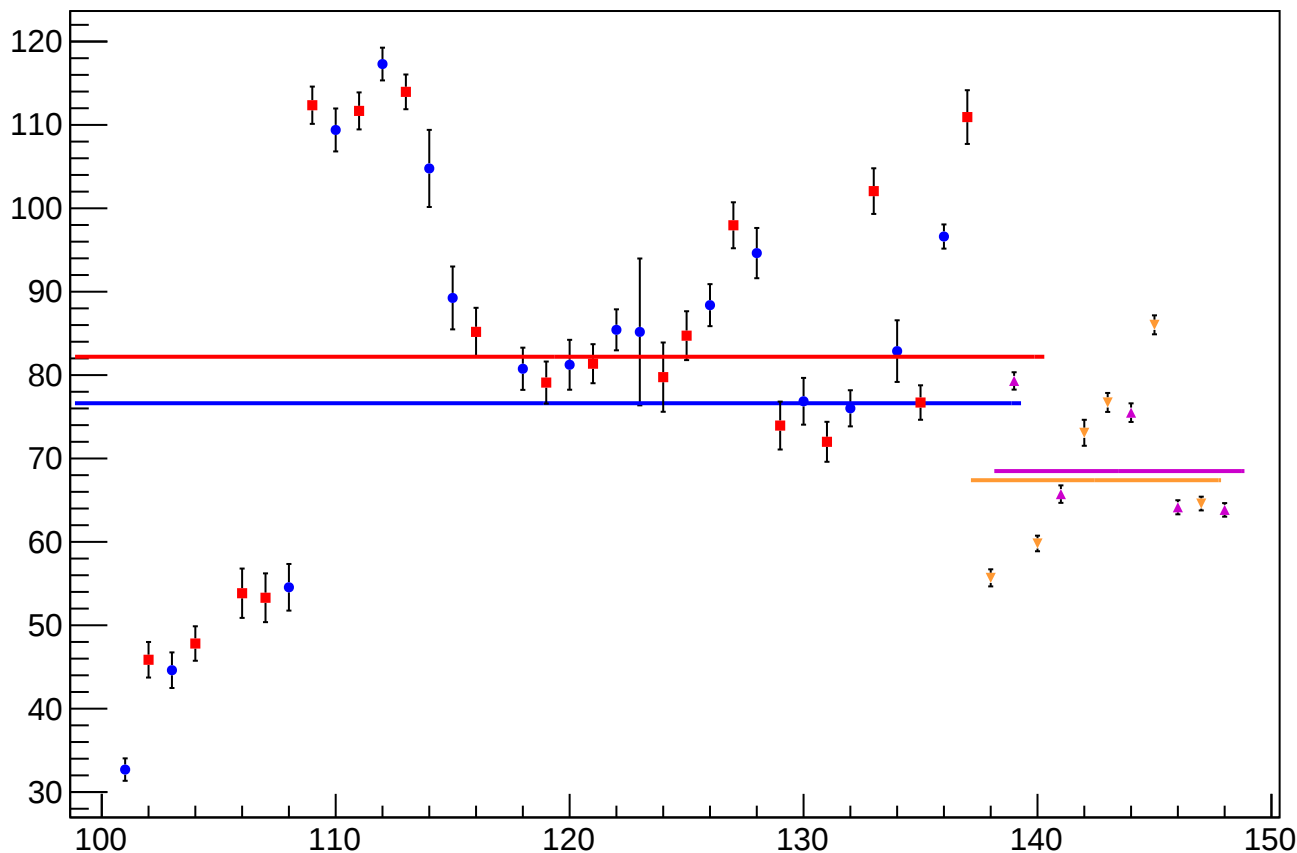
Left In:  $2.558 \pm 0.272$   $\chi^2/\text{NDF}$ : 118.0/4

+ sign  $2.139 \pm 0.207$   $\chi^2/\text{NDF}$ : 548.6/22

All:  $2.614 \pm 0.147$   $\chi^2/\text{NDF}$ : 955.1/45

- sign  $3.095 \pm 0.209$   $\chi^2/\text{NDF}$ : 395.9/22

# 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: 67.395 $\pm$ 0.426  $\chi^2/\text{NDF}$ : 556.4/5

Right Out: 82.201 $\pm$ 0.593  $\chi^2/\text{NDF}$ : 1550.2/17

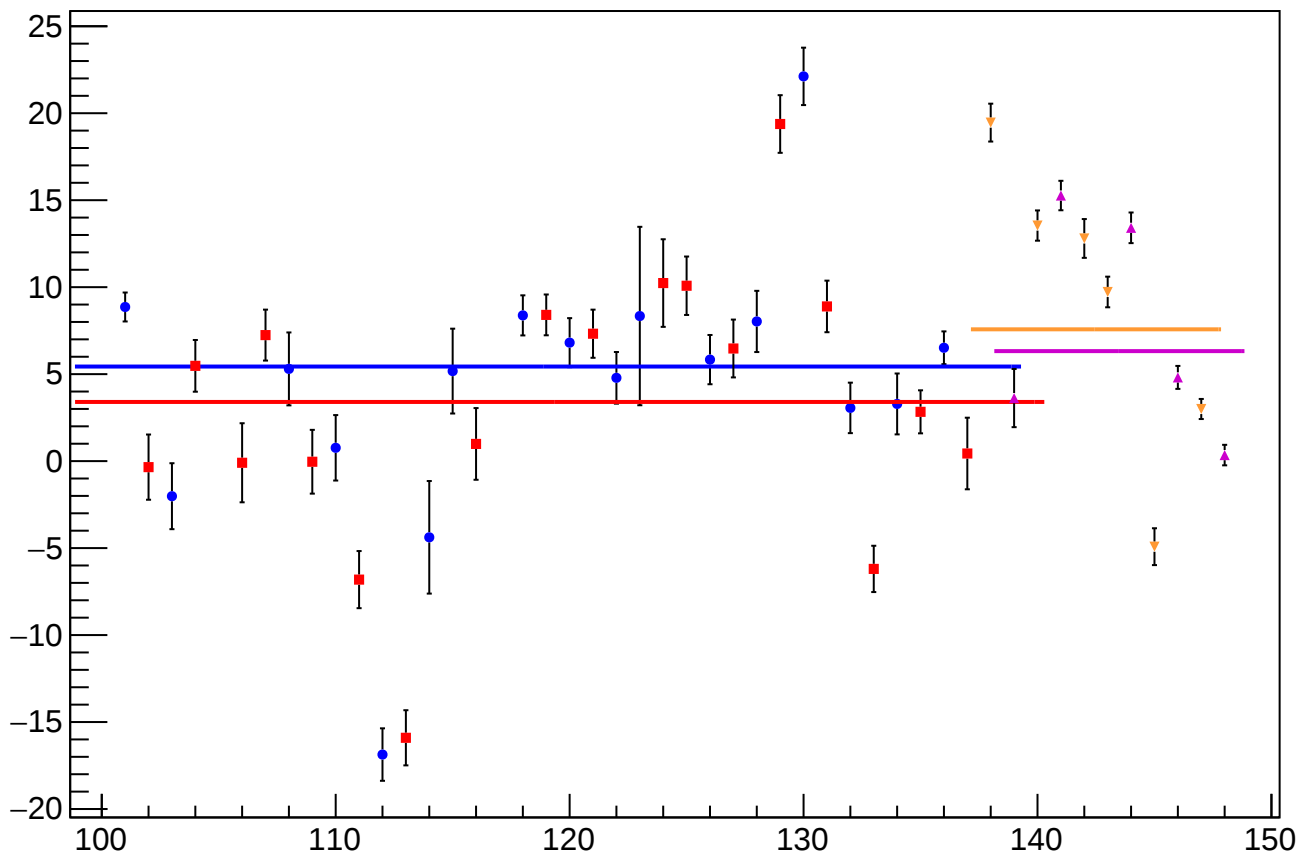
Left In: 68.490 $\pm$ 0.425  $\chi^2/\text{NDF}$ : 213.0/4

+ sign 70.666 $\pm$ 0.342  $\chi^2/\text{NDF}$ : 2985.9/22

All: 71.892 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 5128.3/45

- sign 73.143 $\pm$ 0.345  $\chi^2/\text{NDF}$ : 2116.4/22

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $5.437 \pm 0.358$   $\chi^2/\text{NDF}$ : 384.5/16

Left Out:  $7.576 \pm 0.350$   $\chi^2/\text{NDF}$ : 396.2/5

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}$ : 420.9/17

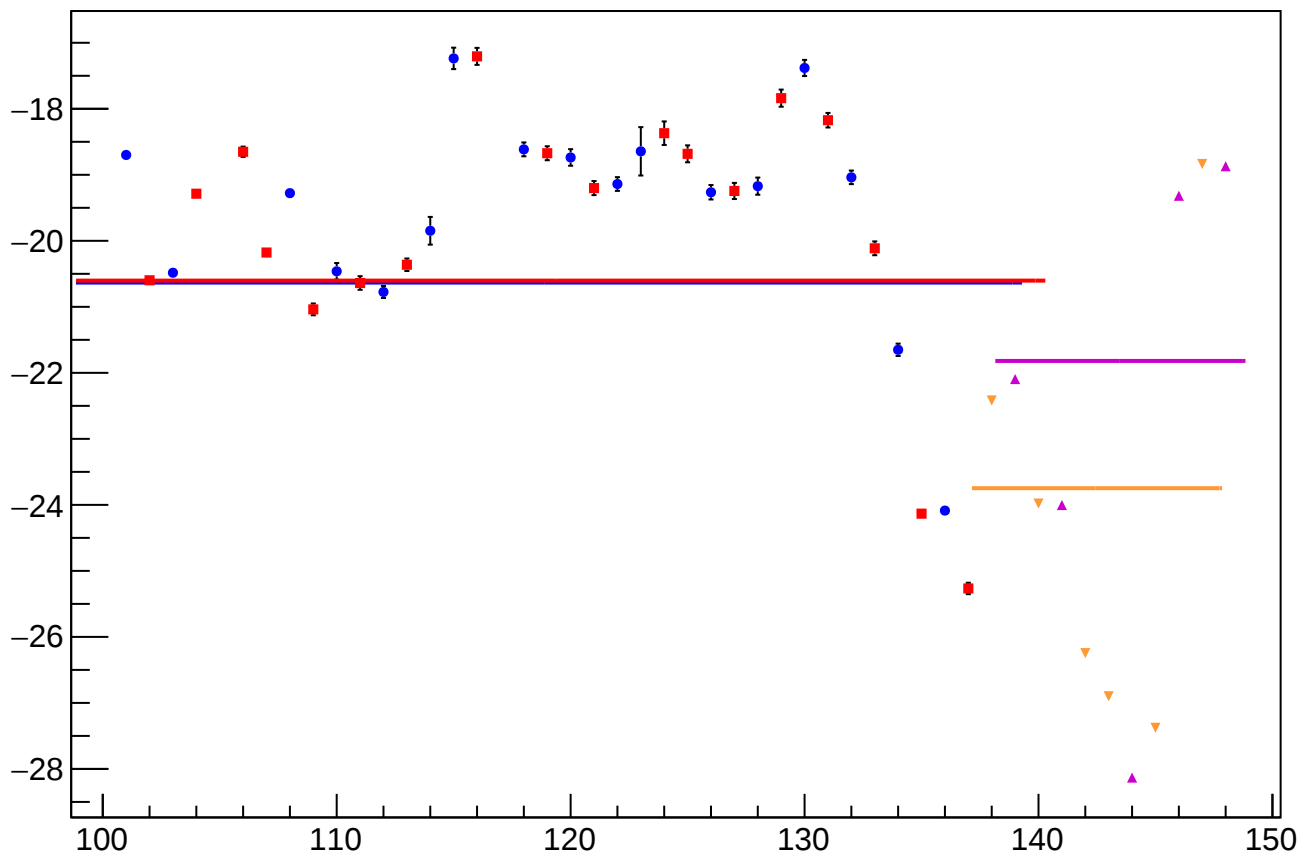
Left In:  $6.324 \pm 0.349$   $\chi^2/\text{NDF}$ : 287.0/4

+ sign  $6.530 \pm 0.250$   $\chi^2/\text{NDF}$ : 799.0/22

All:  $5.766 \pm 0.179$   $\chi^2/\text{NDF}$ : 1558.5/45

- sign  $4.969 \pm 0.256$   $\chi^2/\text{NDF}$ : 740.4/22

# 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:  $-23.748 \pm 0.018$   $\chi^2/\text{NDF}$ : 29958.1/5

Right Out:  $-20.603 \pm 0.019$   $\chi^2/\text{NDF}$ : 11925.8/17

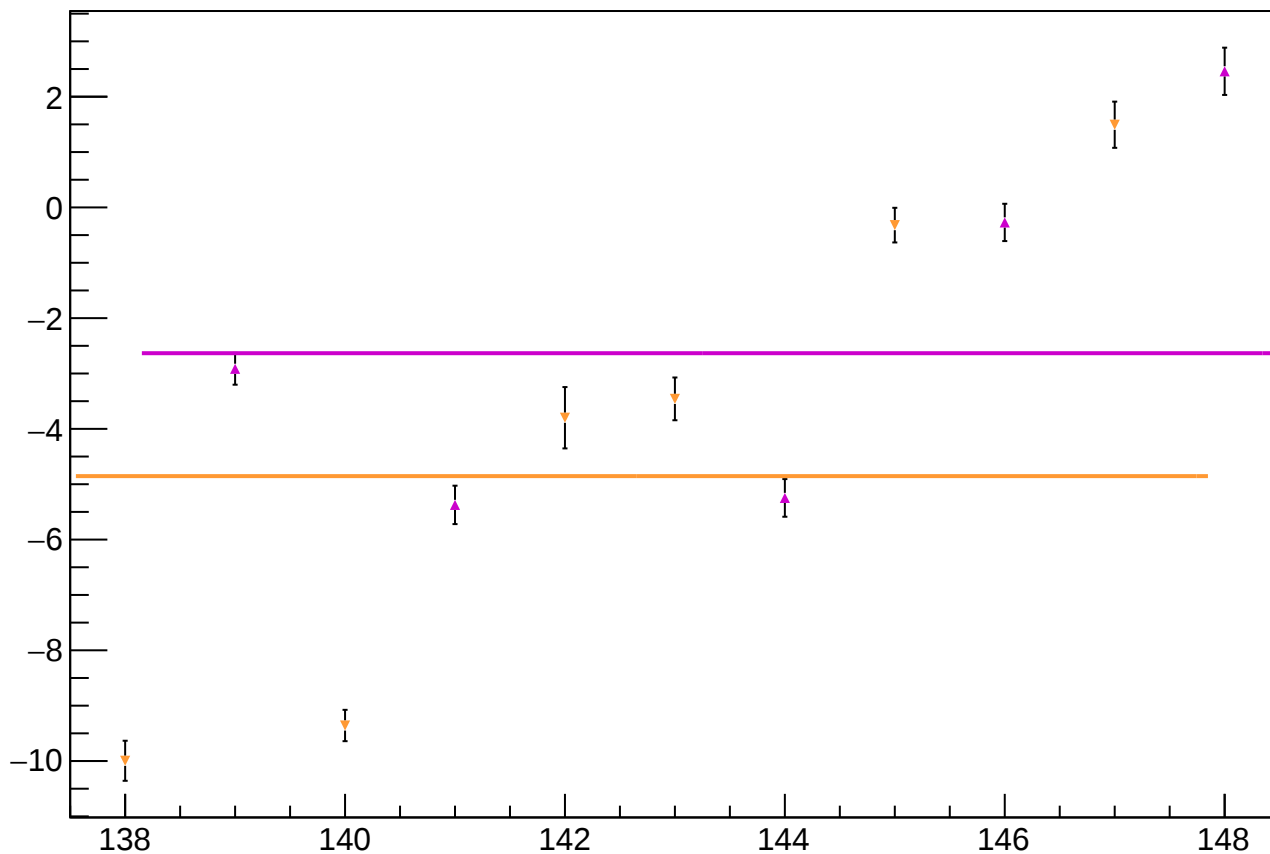
Left In:  $-21.819 \pm 0.018$   $\chi^2/\text{NDF}$ : 30695.3/4

+ sign  $-22.302 \pm 0.013$   $\chi^2/\text{NDF}$ : 56456.4/22

All:  $-21.783 \pm 0.009$   $\chi^2/\text{NDF}$ : 104312.0/45

- sign  $-21.269 \pm 0.013$   $\chi^2/\text{NDF}$ : 44760.1/22

reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.854 $\pm$ 0.147  $\chi^2$ /NDF: 913.6/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

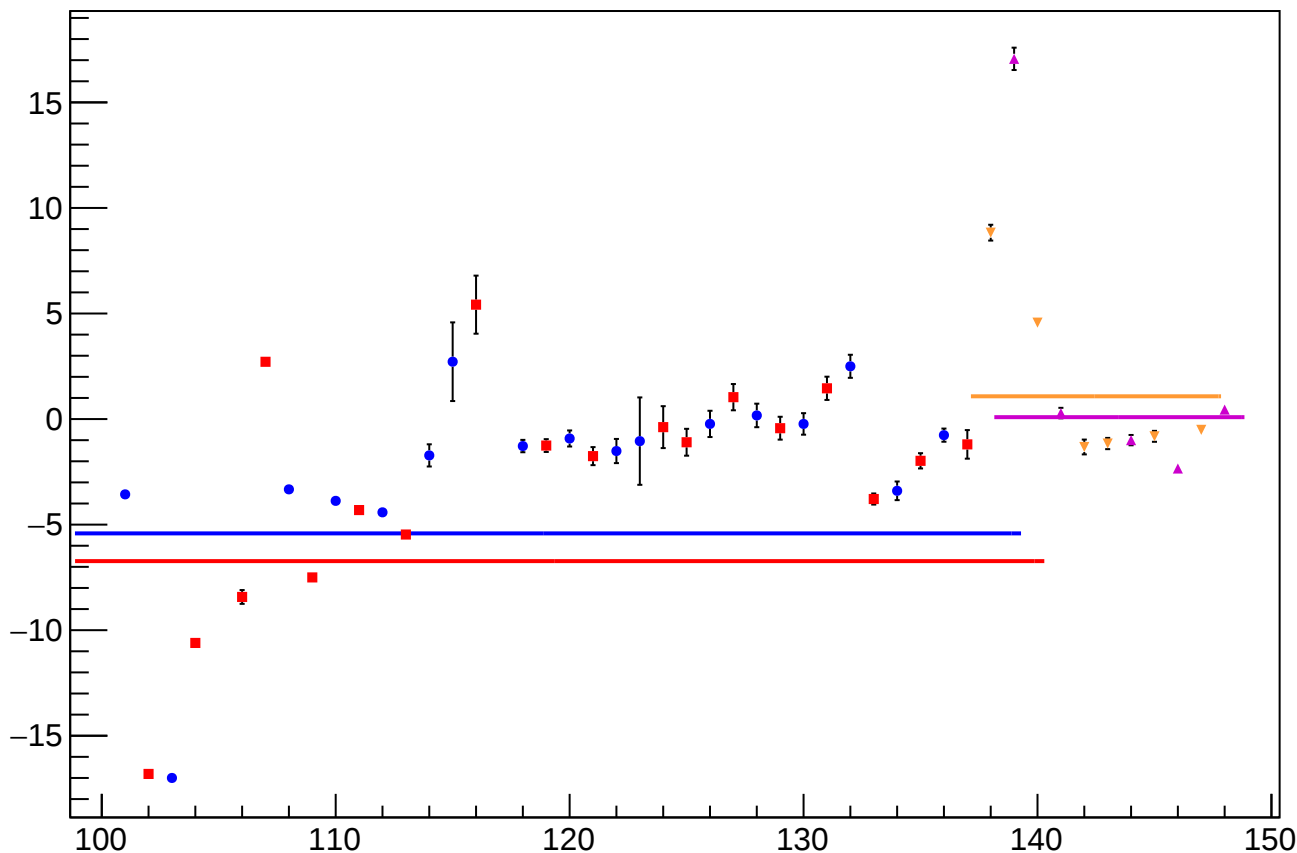
Left In: -2.633 $\pm$ 0.152  $\chi^2$ /NDF: 313.8/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.777 $\pm$ 0.106  $\chi^2$ /NDF: 1337.5/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-5.415 \pm 0.055$   $\chi^2/\text{NDF}: 9255.1/16$

Left Out:  $1.078 \pm 0.107$   $\chi^2/\text{NDF}: 881.9/5$

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}: 11217.0/17$

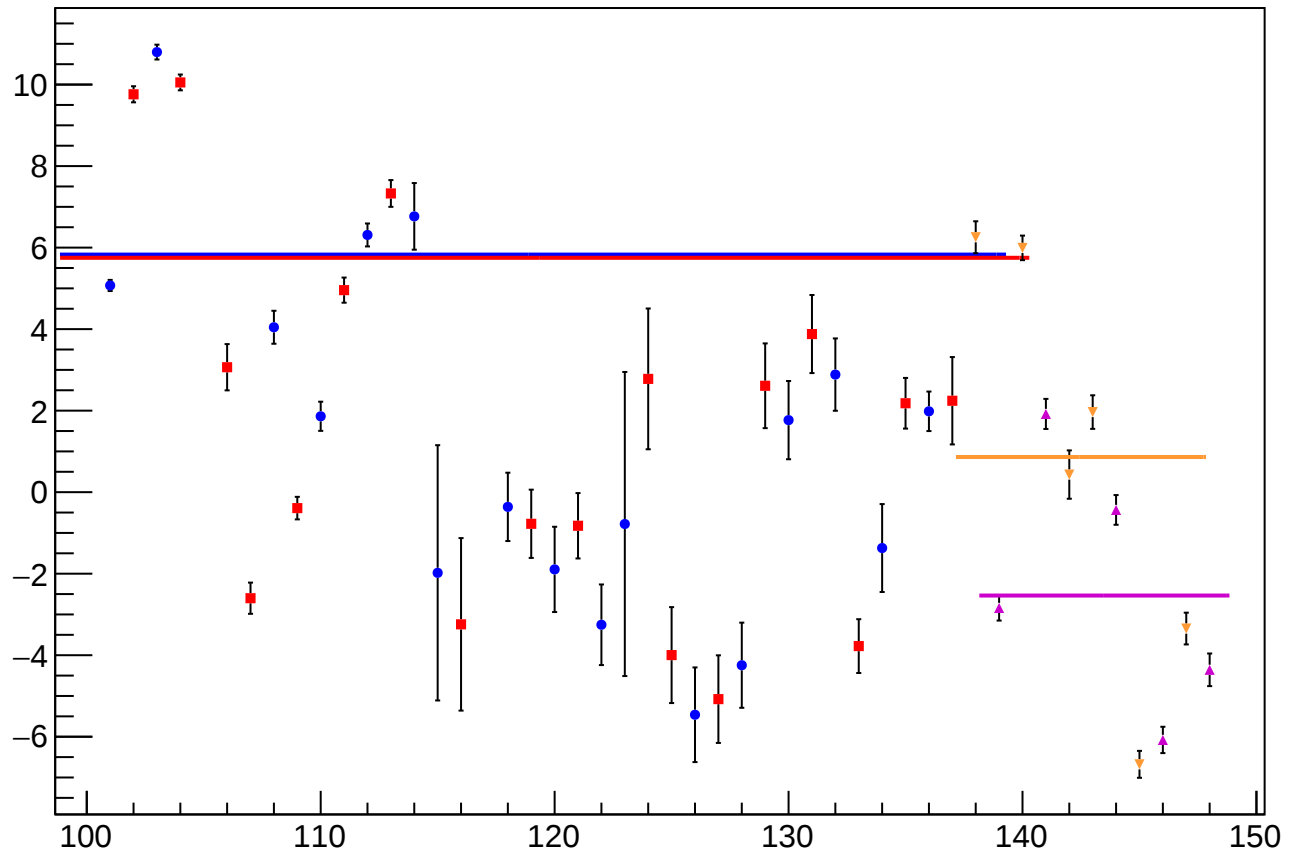
Left In:  $0.090 \pm 0.111$   $\chi^2/\text{NDF}: 1182.4/4$

+ sign  $-4.072 \pm 0.049$   $\chi^2/\text{NDF}: 13046.8/22$

All:  $-4.591 \pm 0.036$   $\chi^2/\text{NDF}: 28609.5/45$

- sign  $-5.198 \pm 0.053$   $\chi^2/\text{NDF}: 15316.5/22$

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:  $0.863 \pm 0.154$   $\chi^2/\text{NDF}$ : 1123.1/5

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}$ : 2511.0/17

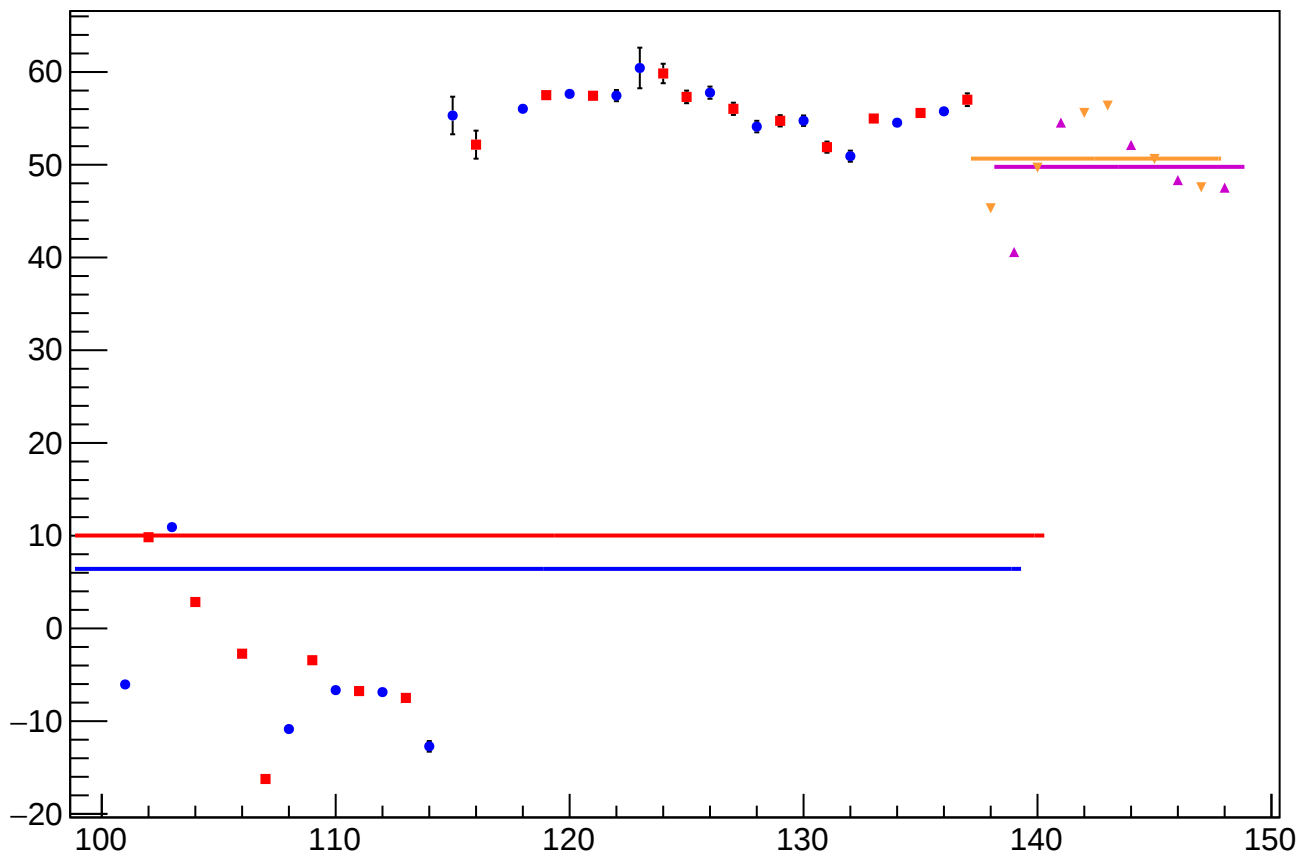
Left In:  $-2.536 \pm 0.156$   $\chi^2/\text{NDF}$ : 321.1/4

+ sign  $4.577 \pm 0.078$   $\chi^2/\text{NDF}$ : 3345.6/22

All:  $4.052 \pm 0.056$   $\chi^2/\text{NDF}$ : 8319.4/45

- sign  $3.465 \pm 0.082$   $\chi^2/\text{NDF}$ : 4876.6/22

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:  $50.662 \pm 0.131$   $\chi^2/\text{NDF}$ : 752.2/5

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}$ : 122082.4/17

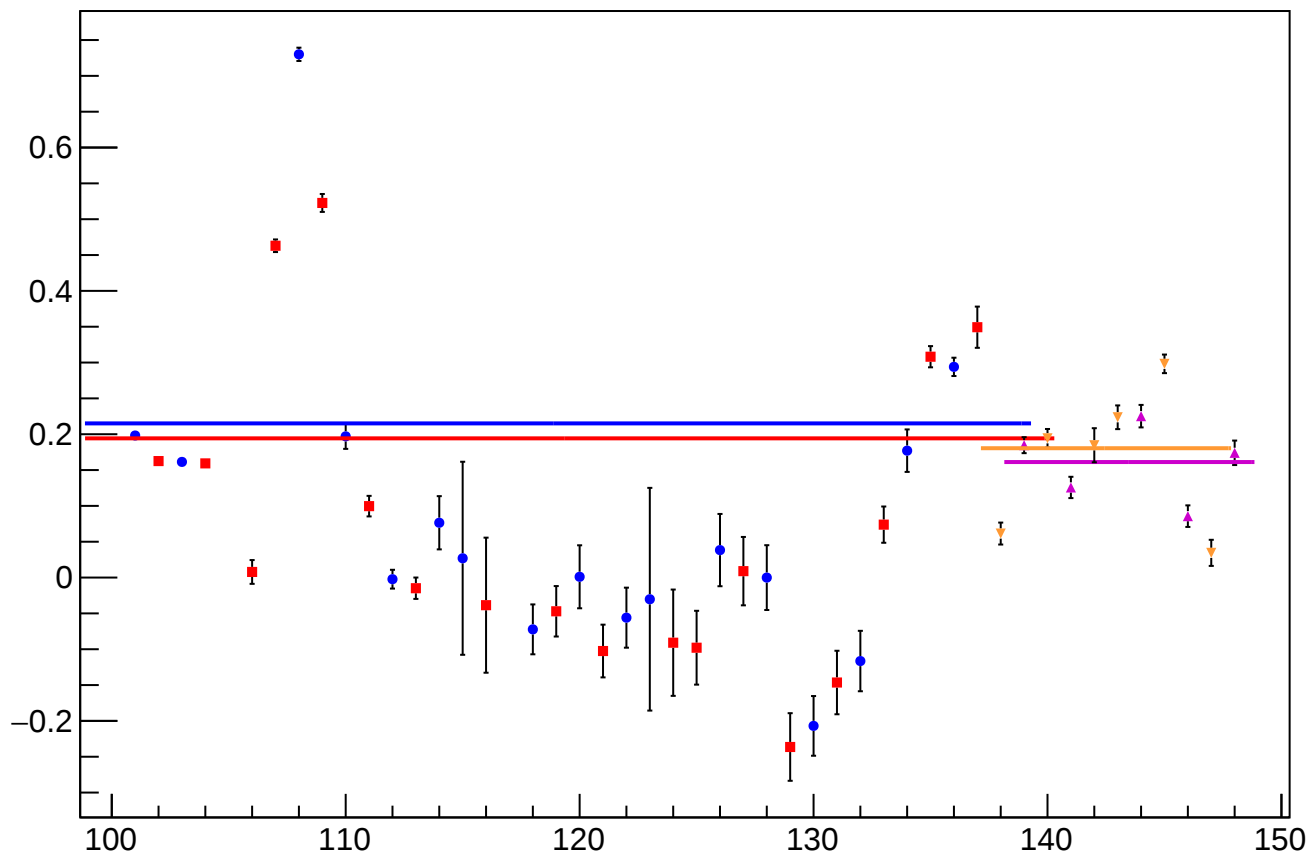
Left In:  $49.773 \pm 0.137$   $\chi^2/\text{NDF}$ : 734.8/4

+ sign  $15.063 \pm 0.058$   $\chi^2/\text{NDF}$ : 215107.5/22

All:  $16.581 \pm 0.043$   $\chi^2/\text{NDF}$ : 405699.3/45

- sign  $18.359 \pm 0.063$   $\chi^2/\text{NDF}$ : 189108.6/22

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $0.215 \pm 0.003$   $\chi^2/\text{NDF}$ : 3927.2/16

Left Out:  $0.180 \pm 0.006$   $\chi^2/\text{NDF}$ : 215.1/5

Right Out:  $0.194 \pm 0.003$   $\chi^2/\text{NDF}$ : 2520.1/17

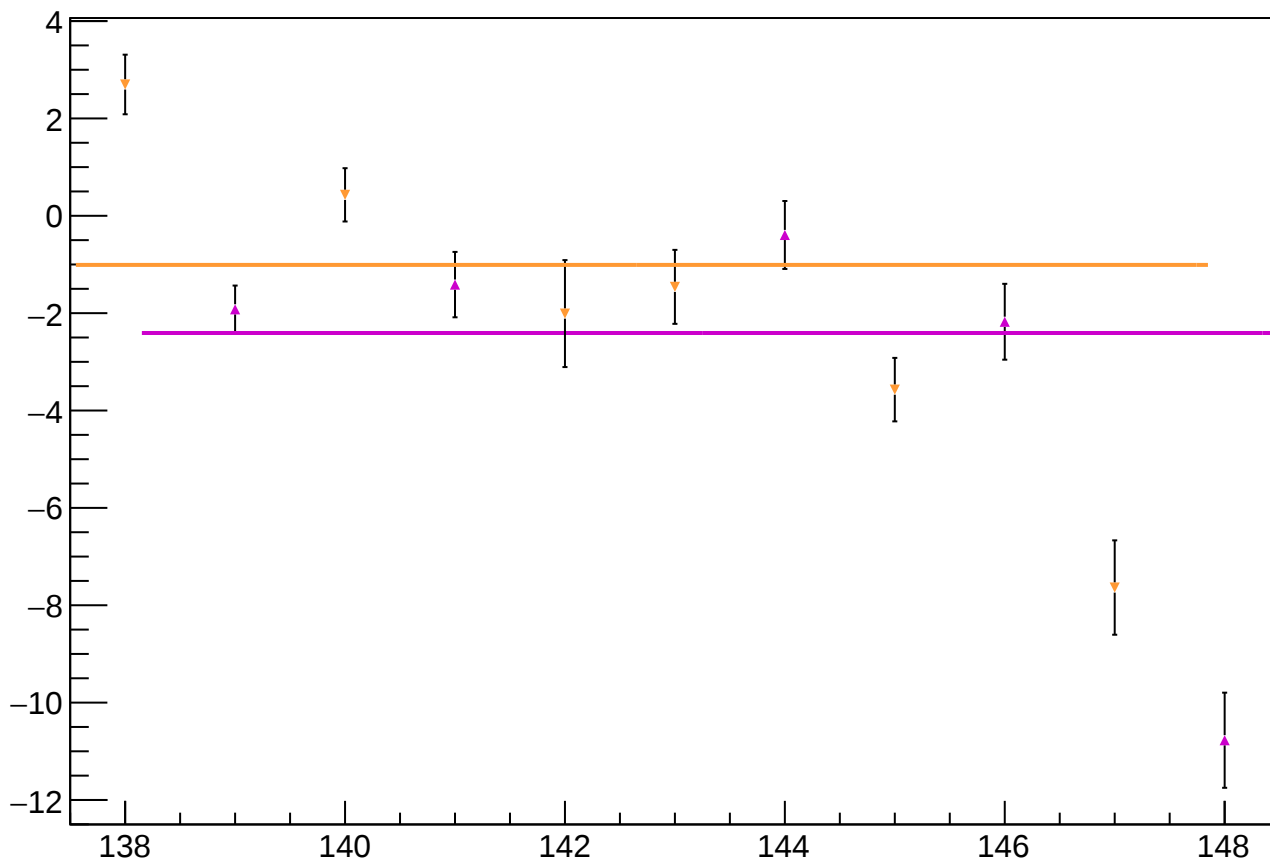
Left In:  $0.161 \pm 0.006$   $\chi^2/\text{NDF}$ : 52.5/4

+ sign  $0.210 \pm 0.003$   $\chi^2/\text{NDF}$ : 4167.1/22

All:  $0.199 \pm 0.002$   $\chi^2/\text{NDF}$ : 6795.2/45

- sign  $0.189 \pm 0.003$   $\chi^2/\text{NDF}$ : 2595.2/22

# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.009+/-0.289  $\chi^2/\text{NDF}$ : 106.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

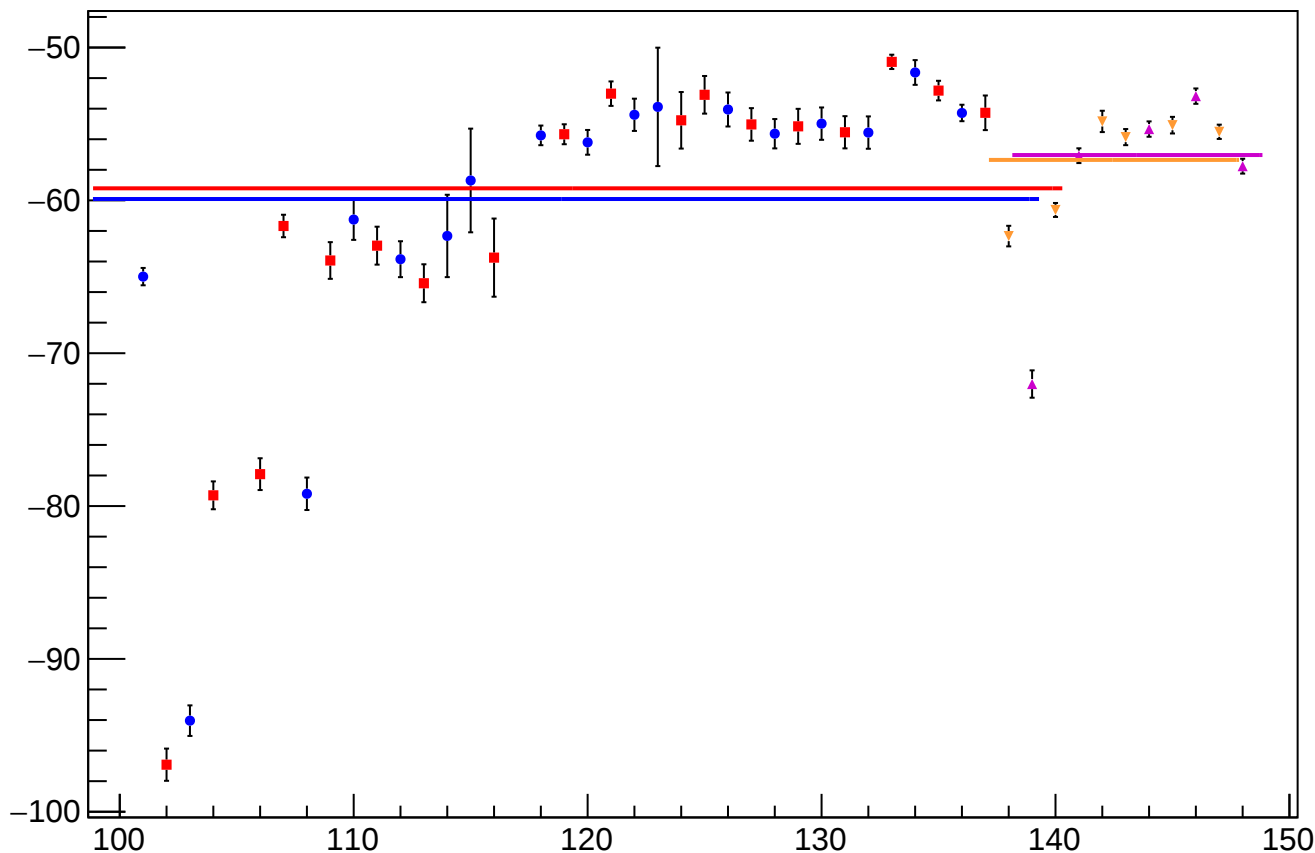
Left In: -2.407+/-0.299  $\chi^2/\text{NDF}$ : 84.9/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.683+/-0.208  $\chi^2/\text{NDF}$ : 203.1/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -59.911 $\pm$ 0.223  $\chi^2/\text{NDF}$ : 1980.8/16

Left Out: -57.353 $\pm$ 0.220  $\chi^2/\text{NDF}$ :160.1/5

Right Out: -59.212 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 2742.9/17

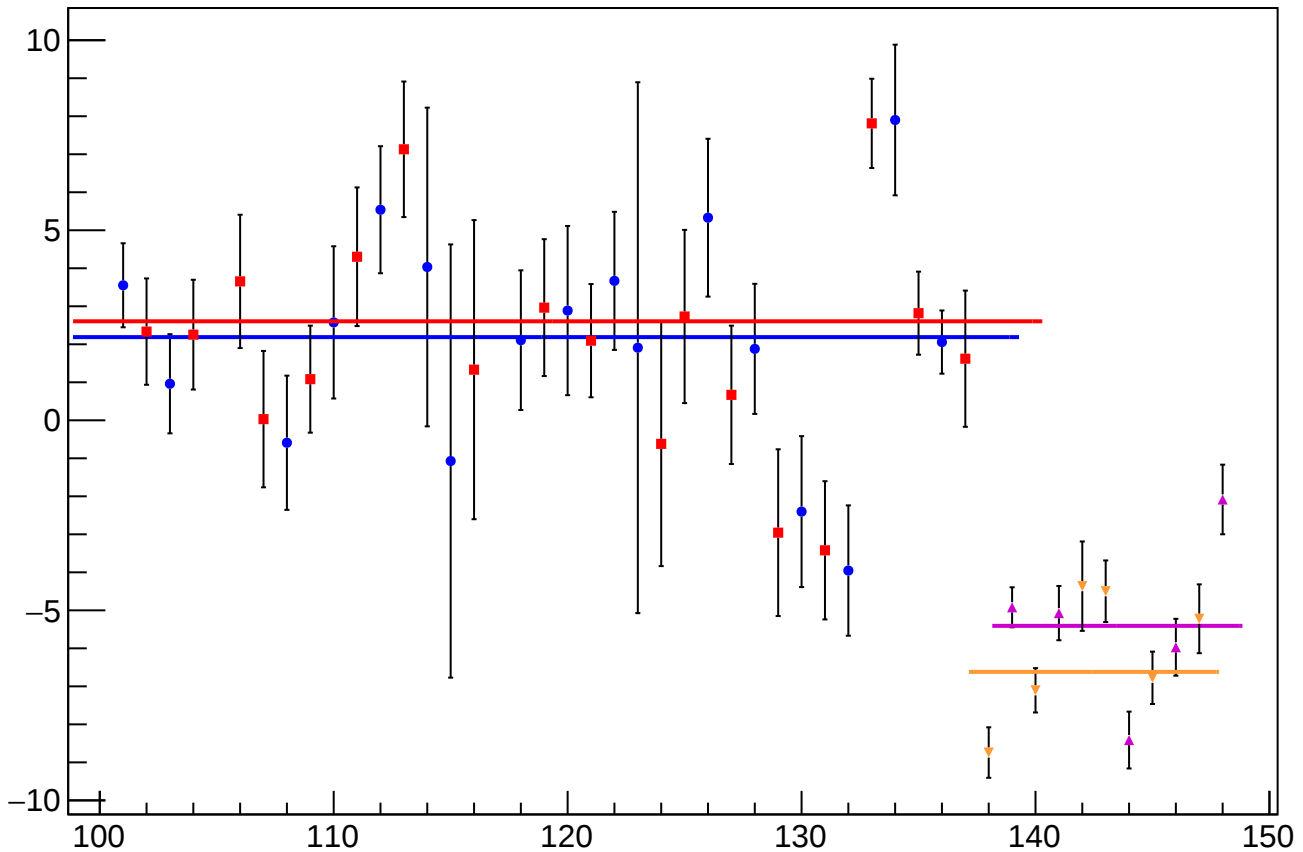
Left In: -57.033 $\pm$ 0.238  $\chi^2/\text{NDF}$ :352.7/4

+ sign -58.615 $\pm$ 0.157  $\chi^2/\text{NDF}$ : 2207.4/22

All: -58.432 $\pm$ 0.111  $\chi^2/\text{NDF}$ : 5352.4/45

- sign -58.245 $\pm$ 0.158  $\chi^2/\text{NDF}$ : 3142.3/22

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:  $-6.619 \pm 0.305$   $\chi^2/\text{NDF}$ : 23.9/5

Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}$ : 50.8/17

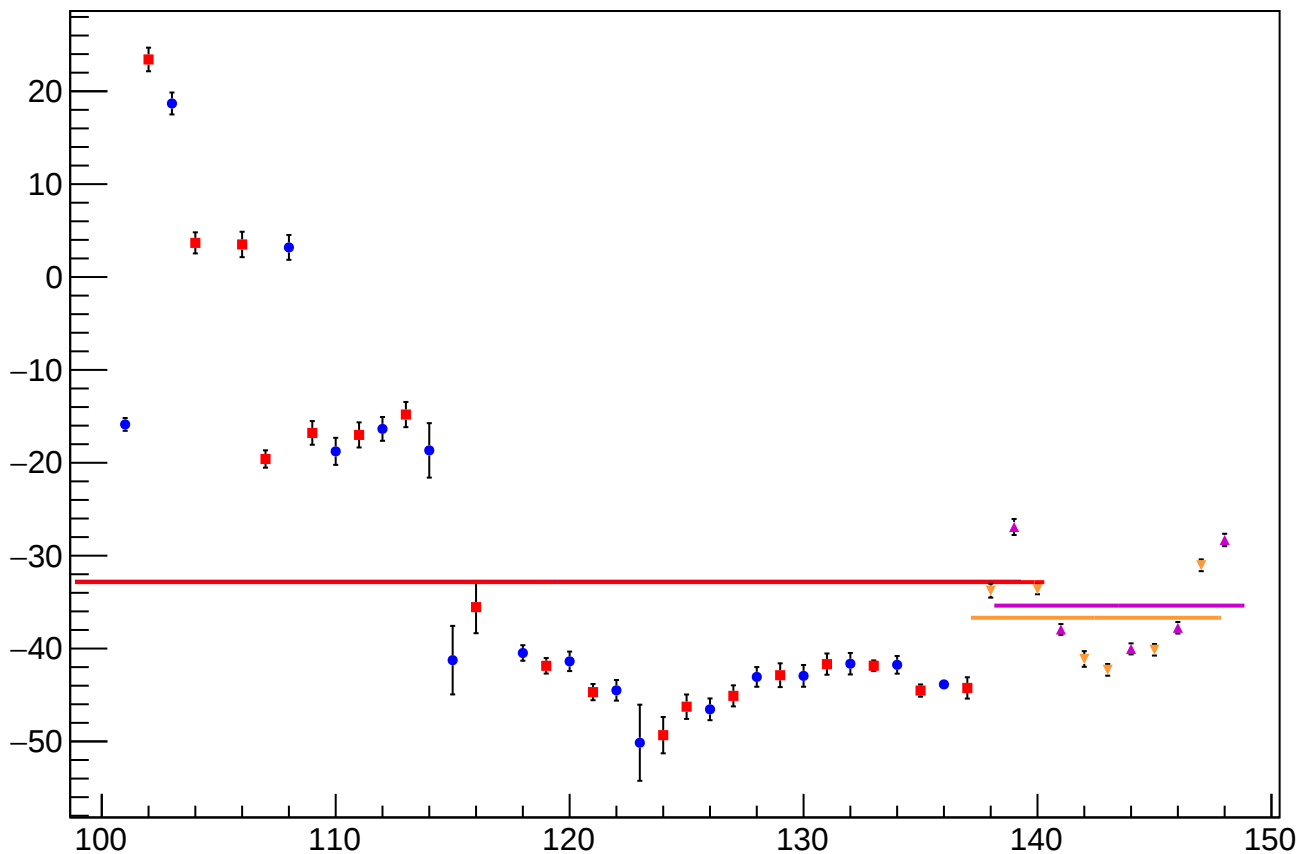
Left In:  $-5.408 \pm 0.311$   $\chi^2/\text{NDF}$ : 31.0/4

+ sign  $-3.432 \pm 0.243$   $\chi^2/\text{NDF}$ : 365.5/22

All:  $-2.867 \pm 0.172$   $\chi^2/\text{NDF}$ : 715.4/45

- sign  $-2.301 \pm 0.243$   $\chi^2/\text{NDF}$ : 339.1/22

# 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:  $-36.686 \pm 0.267$   $\chi^2/\text{NDF}: 262.7/5$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

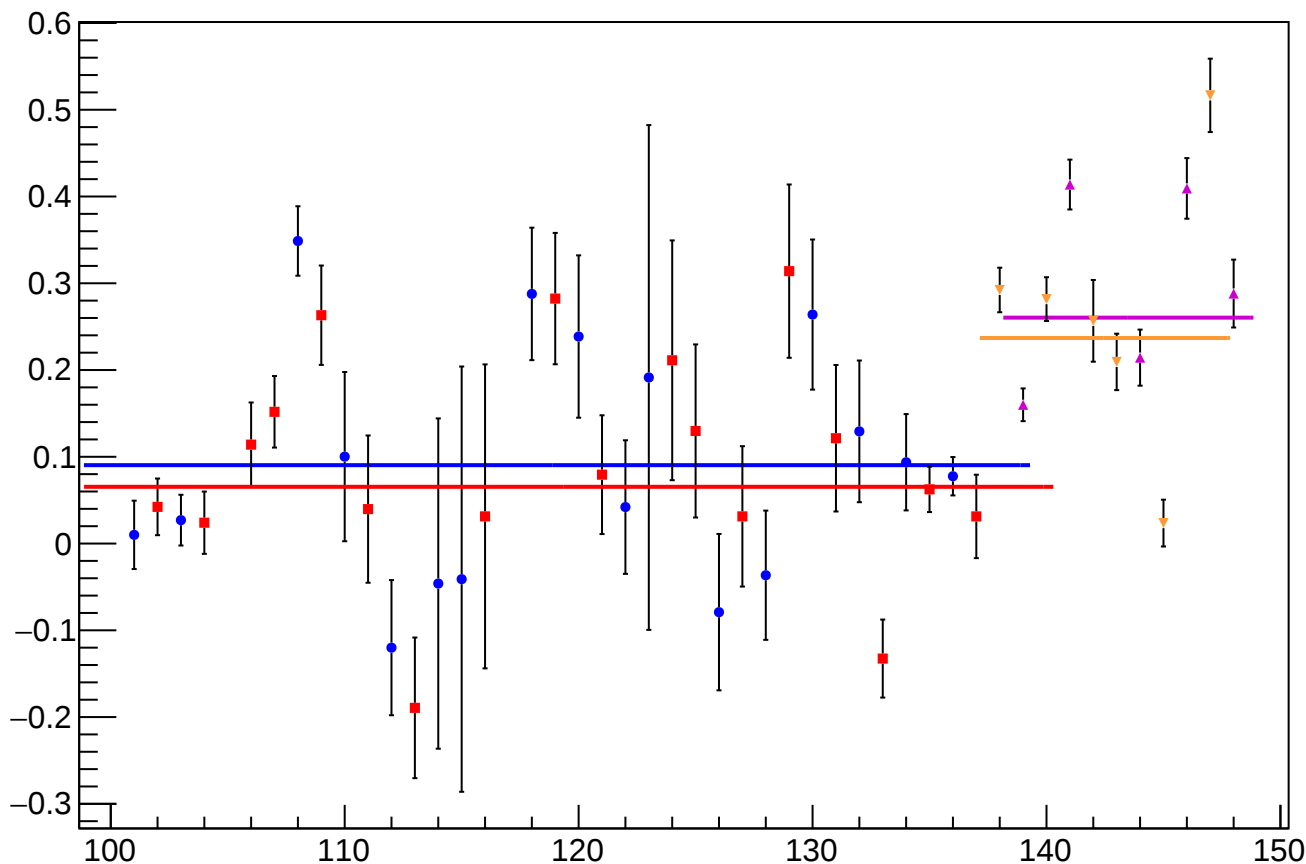
Left In:  $-35.378 \pm 0.289$   $\chi^2/\text{NDF}: 303.7/4$

+ sign  $-34.654 \pm 0.184$   $\chi^2/\text{NDF}: 5036.4/22$

All:  $-34.285 \pm 0.131$   $\chi^2/\text{NDF}: 11143.3/45$

- sign  $-33.906 \pm 0.187$   $\chi^2/\text{NDF}: 6098.7/22$

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:  $0.237 \pm 0.012$   $\chi^2/\text{NDF}: 115.0/5$

Right Out:  $0.065 \pm 0.012$   $\chi^2/\text{NDF}: 65.7/17$

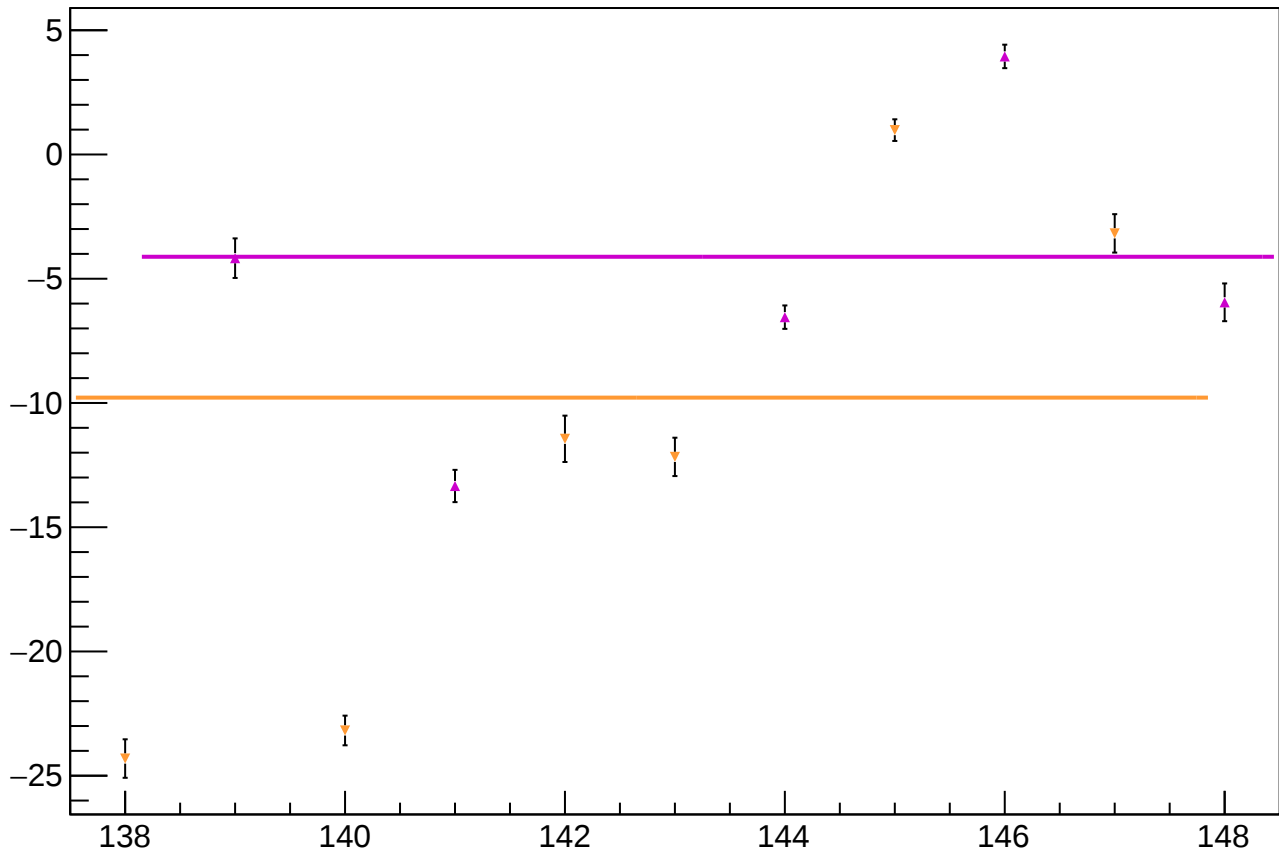
Left In:  $0.260 \pm 0.012$   $\chi^2/\text{NDF}: 77.6/4$

+ sign  $0.165 \pm 0.009$   $\chi^2/\text{NDF}: 261.9/22$

All:  $0.163 \pm 0.006$   $\chi^2/\text{NDF}: 529.9/45$

- sign  $0.161 \pm 0.009$   $\chi^2/\text{NDF}: 267.9/22$

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -9.784 $\pm$ 0.265  $\chi^2$ /NDF:1551.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

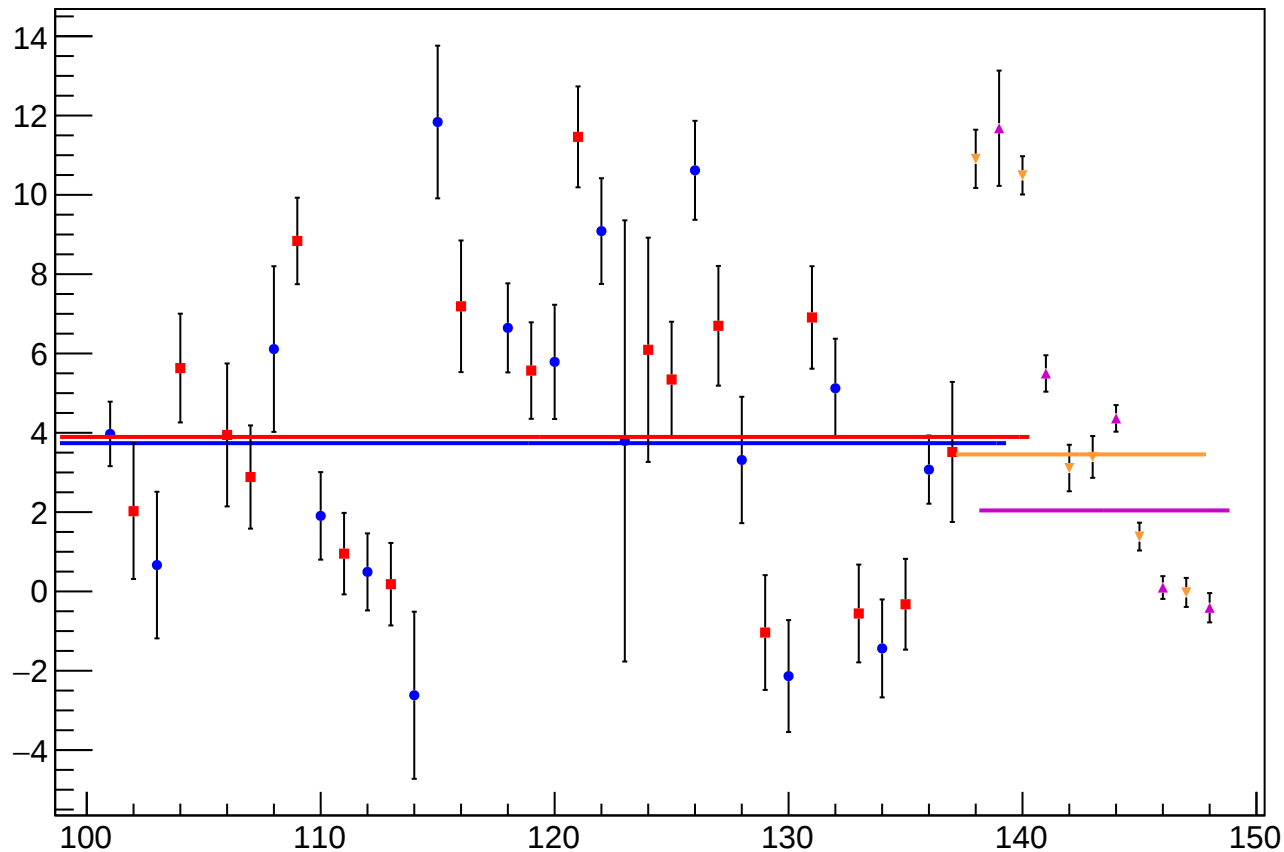
Left In: -4.116 $\pm$ 0.261  $\chi^2$ /NDF:525.4/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.908 $\pm$ 0.186  $\chi^2$ /NDF: 2308.6/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $3.455 \pm 0.188$   $\chi^2/\text{NDF}$ : 441.3/5

Right Out:  $3.896 \pm 0.316$   $\chi^2/\text{NDF}$ : 134.9/17

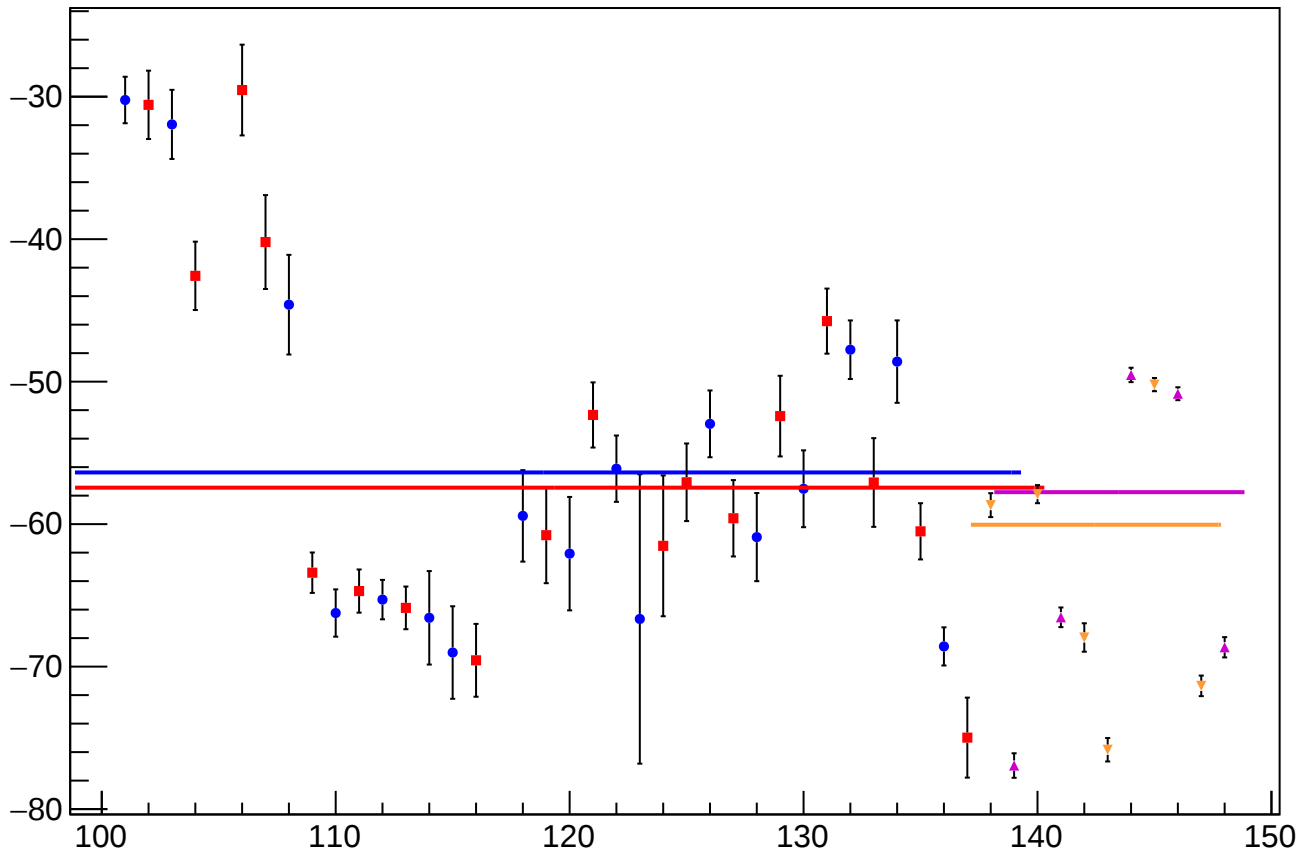
Left In:  $2.042 \pm 0.173$   $\chi^2/\text{NDF}$ : 238.6/4

+ sign  $3.532 \pm 0.161$   $\chi^2/\text{NDF}$ : 578.8/22

All:  $2.968 \pm 0.110$   $\chi^2/\text{NDF}$ : 1002.0/45

- sign  $2.467 \pm 0.151$   $\chi^2/\text{NDF}$ : 399.9/22

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:  $-60.042 \pm 0.278$   $\chi^2/\text{NDF}$ : 1140.5/5

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}$ : 441.0/17

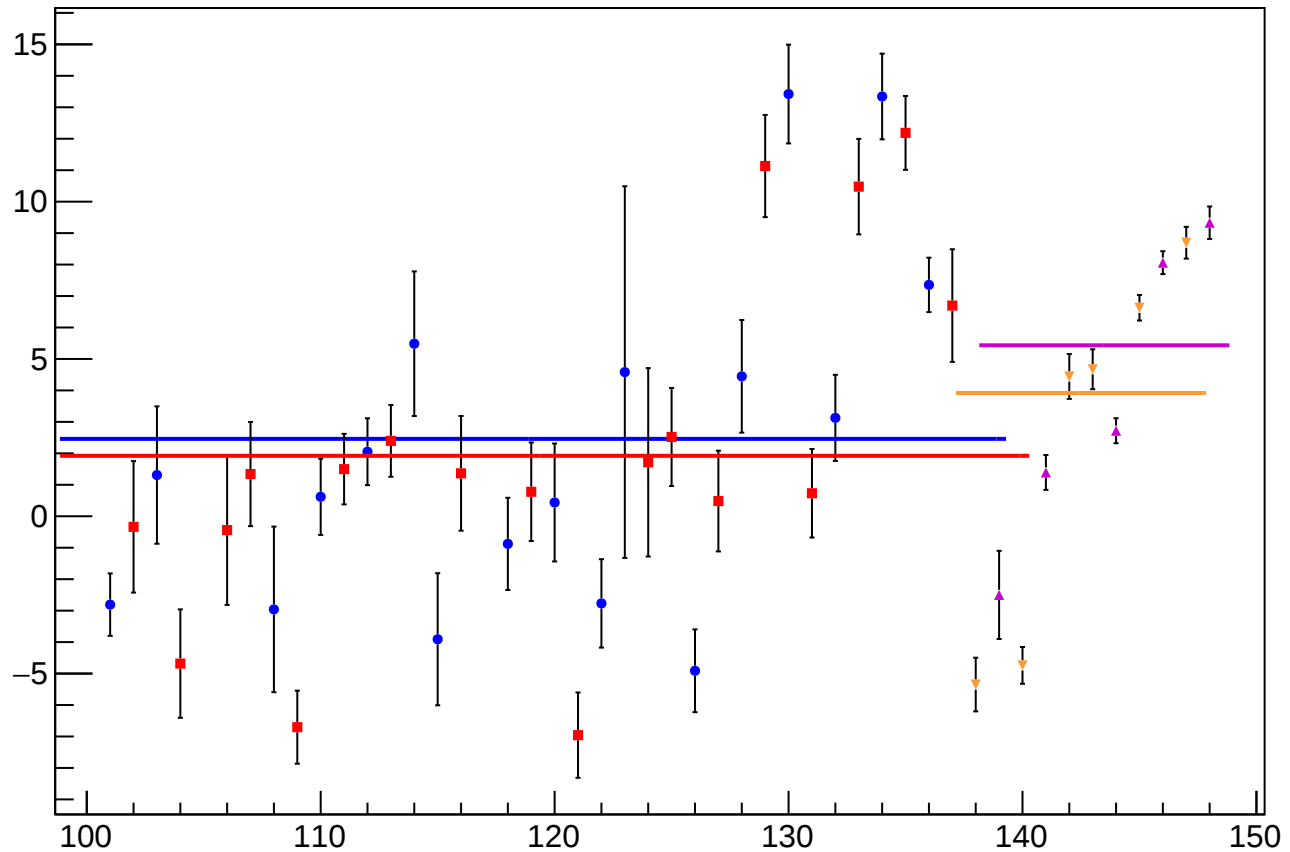
Left In:  $-57.756 \pm 0.265$   $\chi^2/\text{NDF}$ : 1390.1/4

+ sign  $-59.280 \pm 0.247$   $\chi^2/\text{NDF}$ : 1764.3/22

All:  $-58.456 \pm 0.171$   $\chi^2/\text{NDF}$ : 3617.1/45

- sign  $-57.694 \pm 0.238$   $\chi^2/\text{NDF}$ : 1831.4/22

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:  $3.919 \pm 0.231$   $\chi^2/\text{NDF}$ : 473.8/5

Right Out:  $1.922 \pm 0.355$   $\chi^2/\text{NDF}$ : 265.1/17

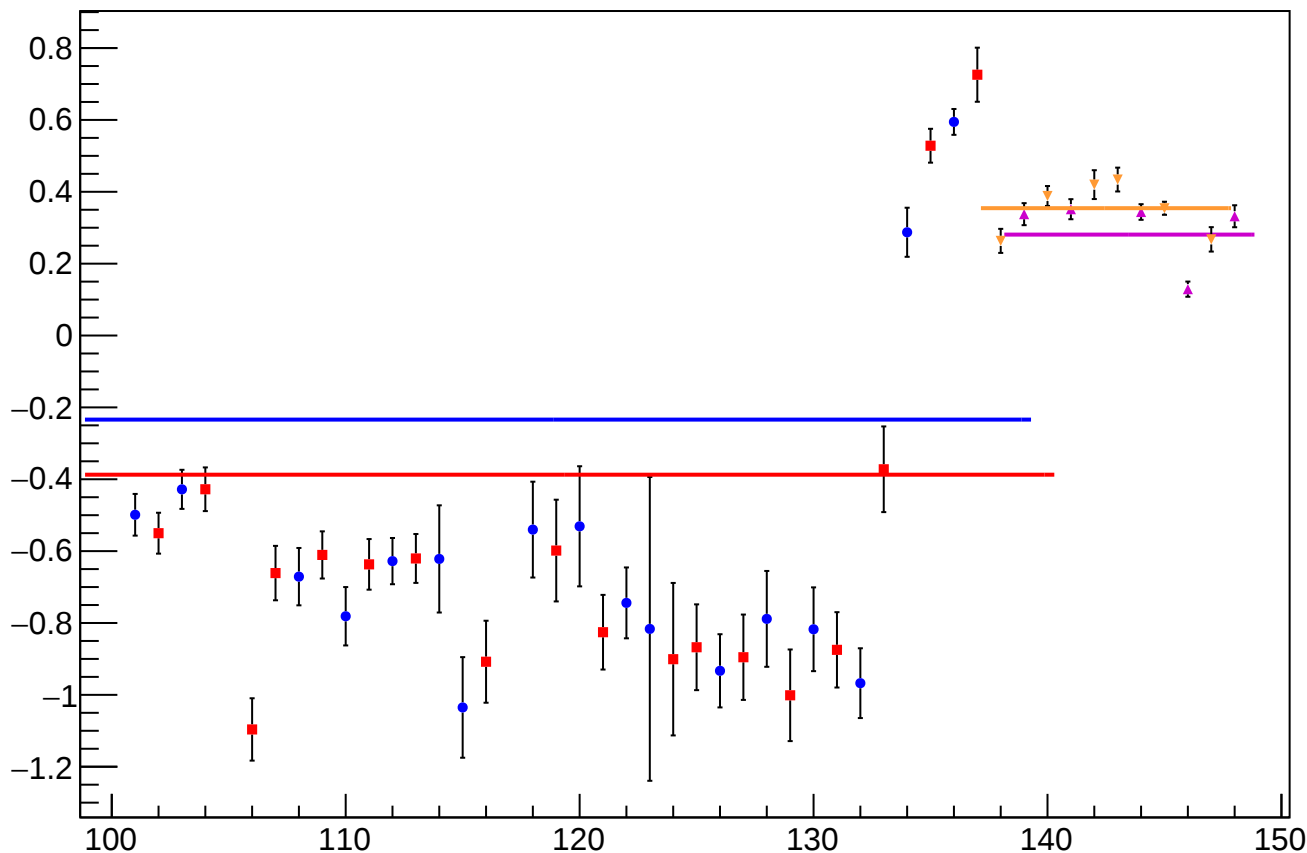
Left In:  $5.435 \pm 0.216$   $\chi^2/\text{NDF}$ : 240.5/4

+ sign  $3.470 \pm 0.192$   $\chi^2/\text{NDF}$ : 730.0/22

All:  $3.996 \pm 0.133$   $\chi^2/\text{NDF}$ : 1321.5/45

- sign  $4.483 \pm 0.185$   $\chi^2/\text{NDF}$ : 577.0/22

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:  $0.354 \pm 0.011$   $\chi^2/\text{NDF}$ : 23.8/5

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

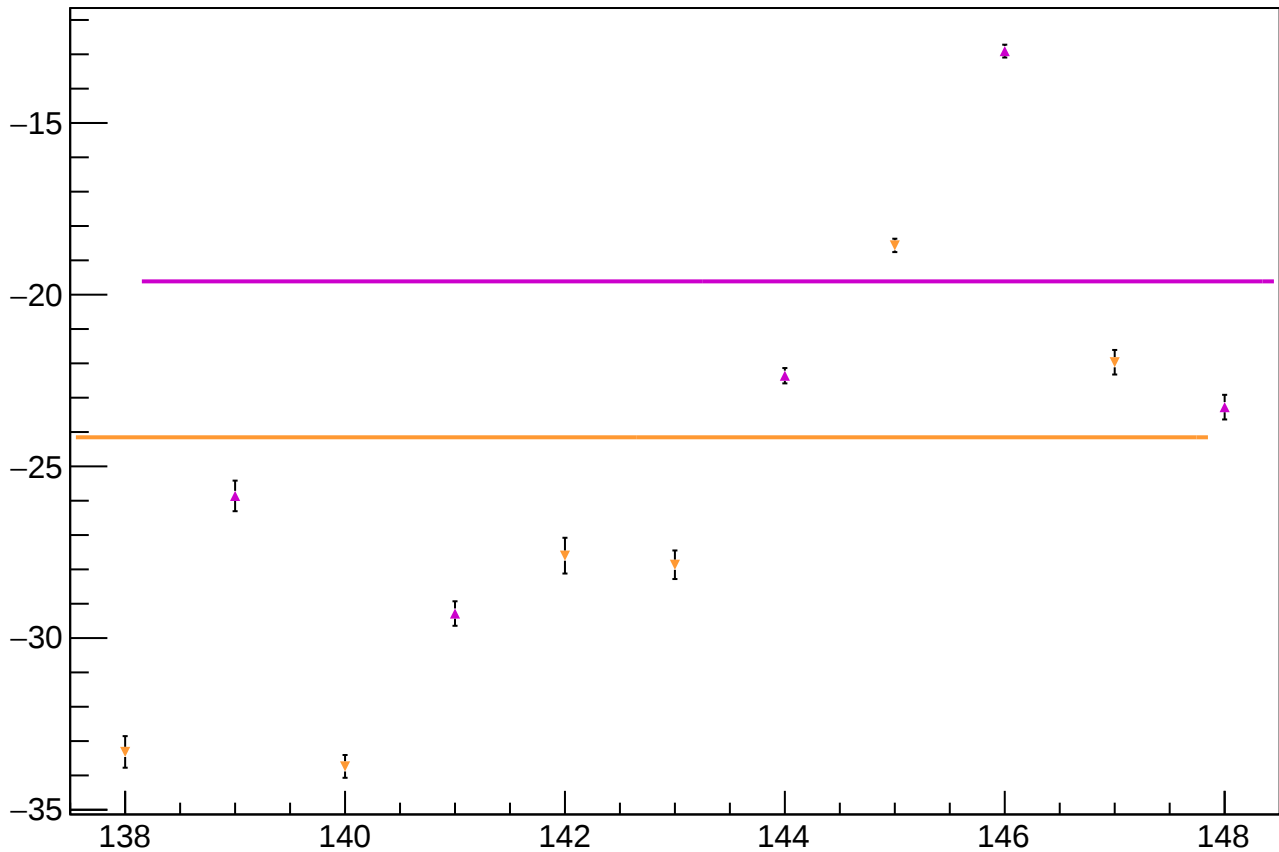
Left In:  $0.281 \pm 0.011$   $\chi^2/\text{NDF}$ : 72.5/4

+ sign  $0.196 \pm 0.010$   $\chi^2/\text{NDF}$ : 1691.0/22

All:  $0.150 \pm 0.007$   $\chi^2/\text{NDF}$ : 3564.6/45

- sign  $0.105 \pm 0.010$   $\chi^2/\text{NDF}$ : 1830.3/22

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -24.153+/-0.132  $\chi^2/\text{NDF}$ : 2213.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

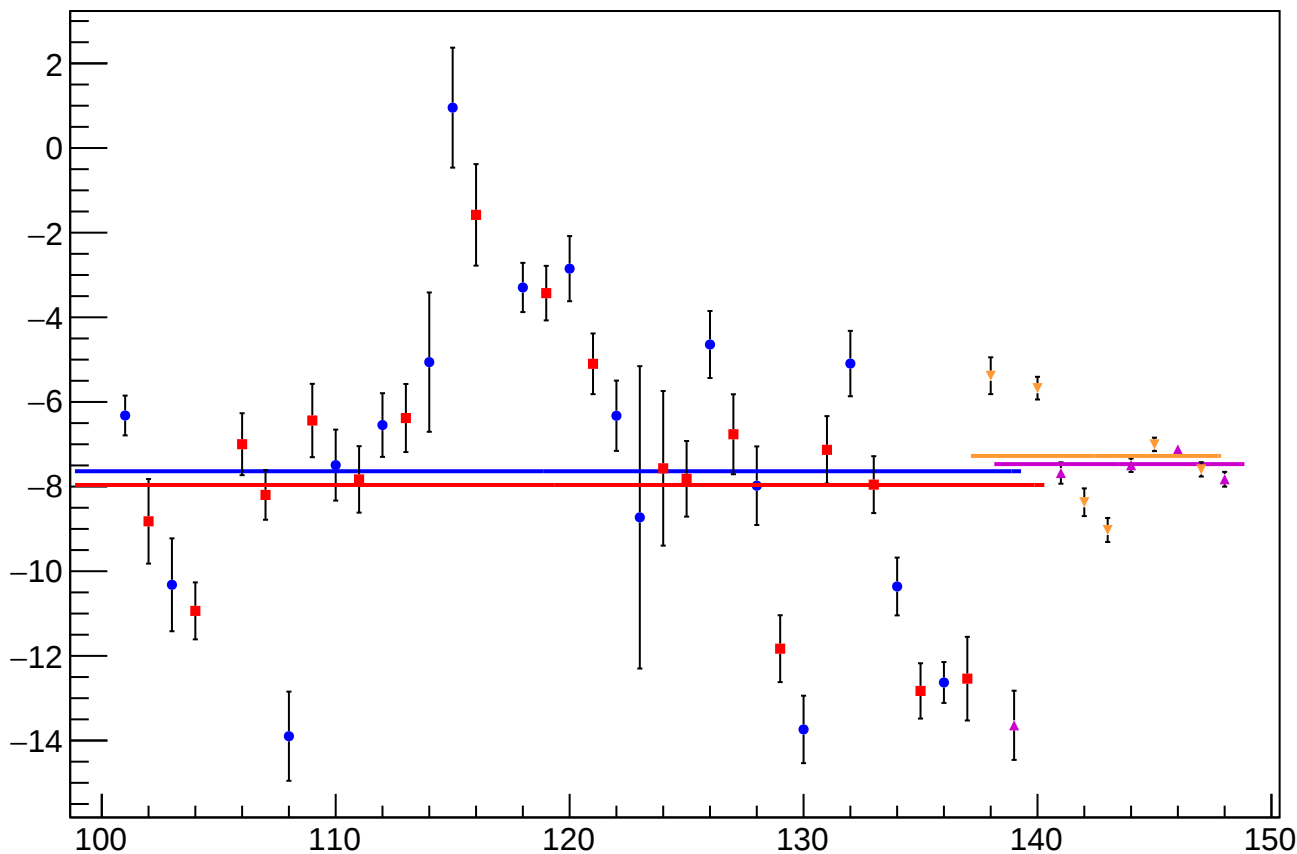
Left In: -19.613+/-0.120  $\chi^2/\text{NDF}$ : 2467.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.672+/-0.089  $\chi^2/\text{NDF}$ : 5327.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.637 \pm 0.186$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-7.276 \pm 0.093$   $\chi^2/\text{NDF}$ : 110.3/5

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

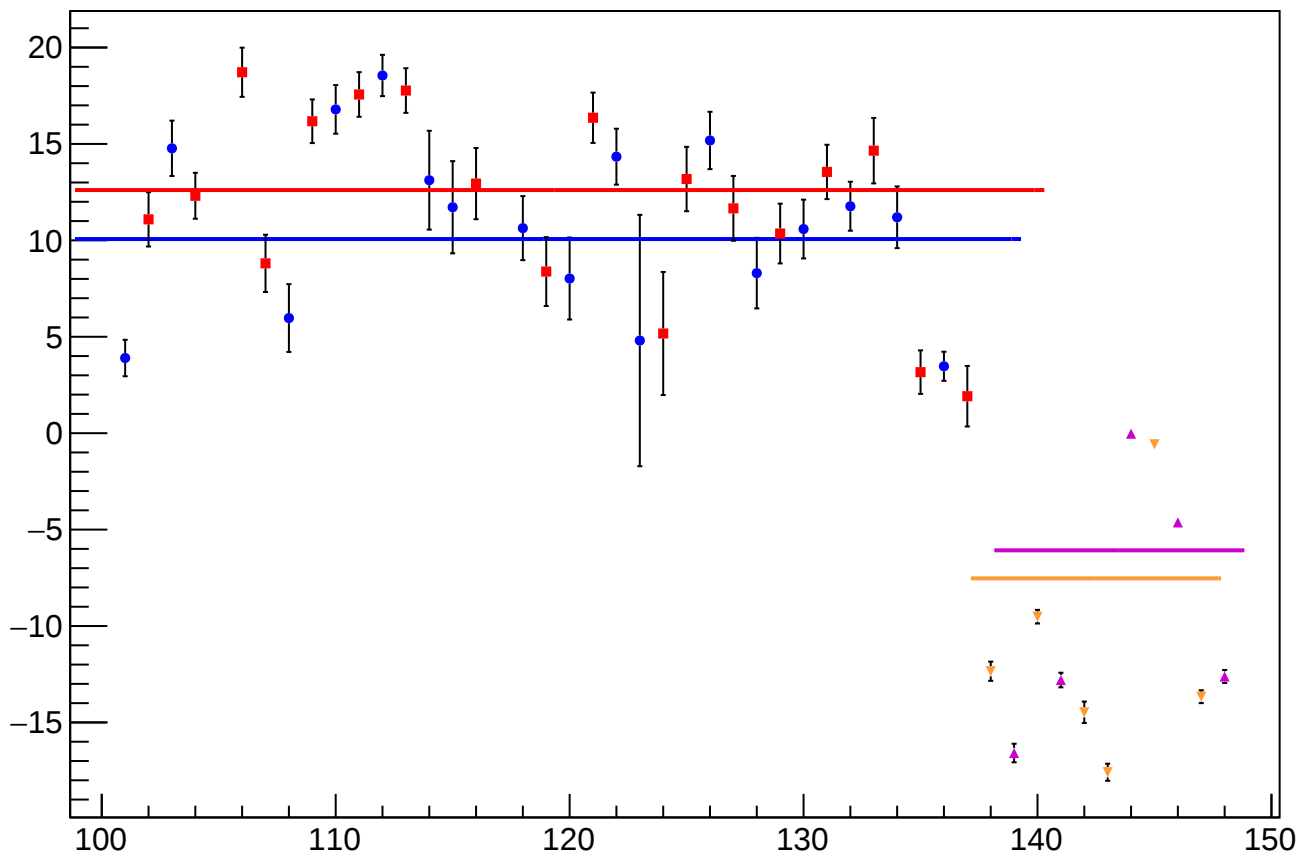
Left In:  $-7.469 \pm 0.078$   $\chi^2/\text{NDF}$ : 70.7/4

+ sign  $-7.348 \pm 0.083$   $\chi^2/\text{NDF}$ : 507.3/22

All:  $-7.460 \pm 0.055$   $\chi^2/\text{NDF}$ : 813.7/45

- sign  $-7.543 \pm 0.072$   $\chi^2/\text{NDF}$ : 303.2/22

# 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:  $-7.529 \pm 0.138$   $\chi^2/\text{NDF}$ : 2270.5/5

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}$ : 219.0/17

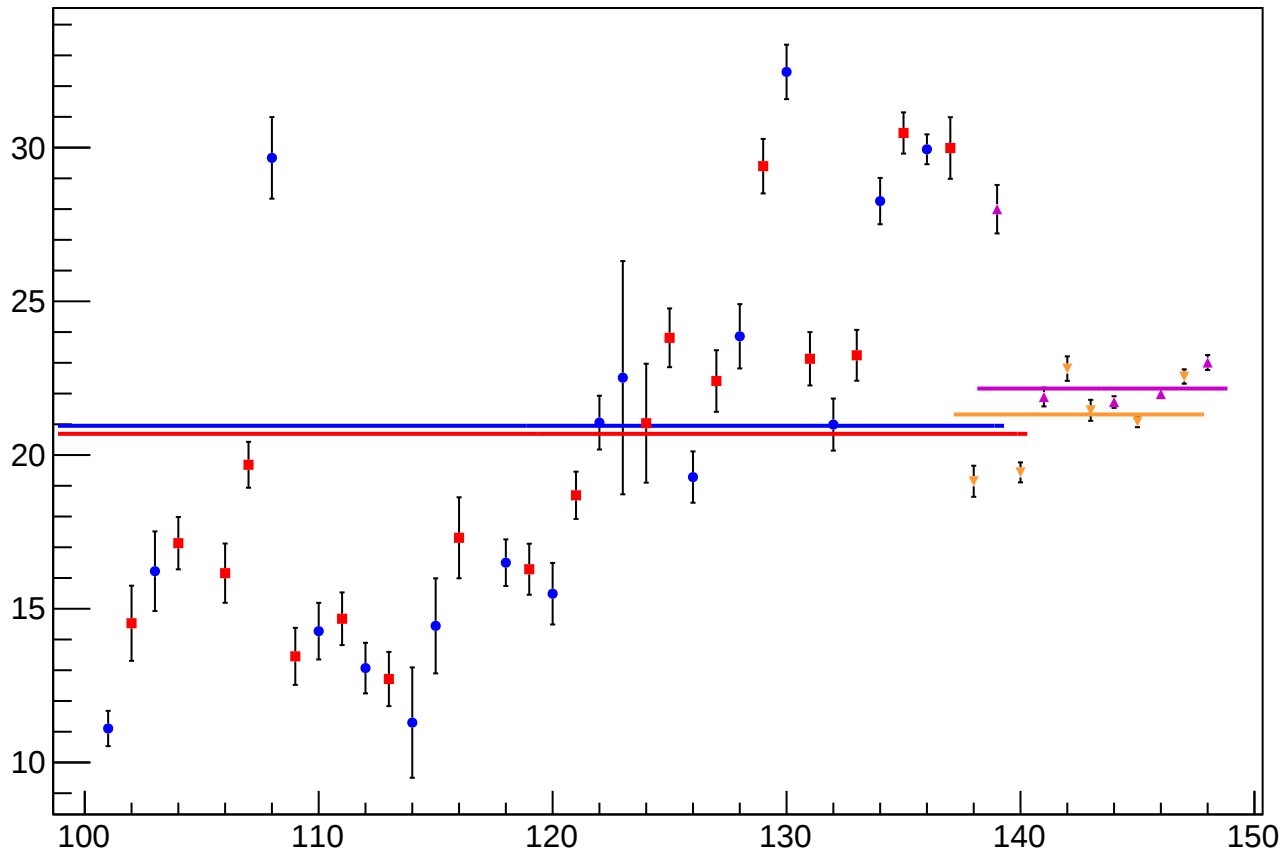
Left In:  $-6.075 \pm 0.121$   $\chi^2/\text{NDF}$ : 1873.2/4

+ sign  $-5.021 \pm 0.127$   $\chi^2/\text{NDF}$ : 4856.2/22

All:  $-4.396 \pm 0.085$   $\chi^2/\text{NDF}$ : 9771.4/45

- sign  $-3.898 \pm 0.114$   $\chi^2/\text{NDF}$ : 4871.9/22

# 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:  $21.320 \pm 0.115$   $\chi^2/\text{NDF}$ : 95.8/5

Right Out:  $20.690 \pm 0.213$   $\chi^2/\text{NDF}$ : 726.9/17

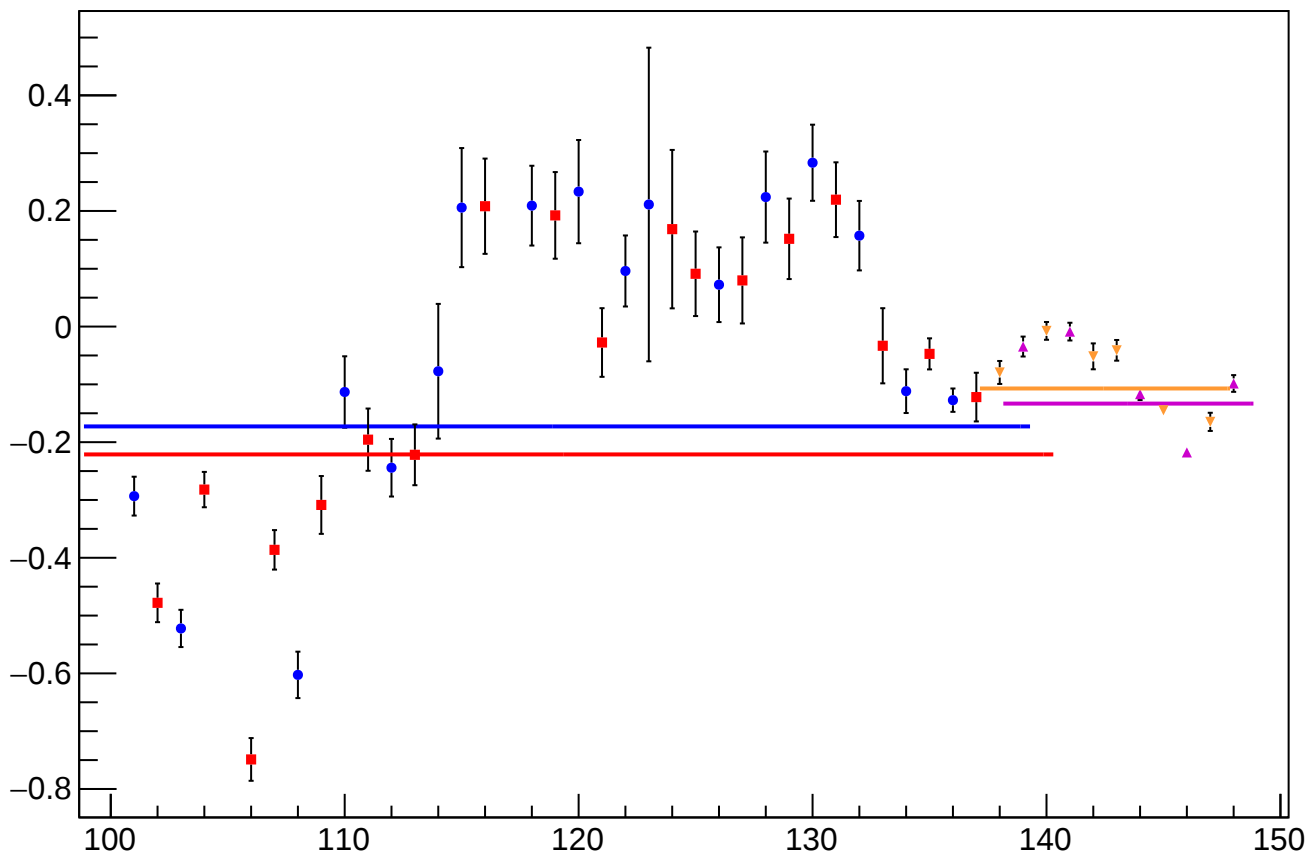
Left In:  $22.163 \pm 0.098$   $\chi^2/\text{NDF}$ : 74.5/4

+ sign  $21.235 \pm 0.101$   $\chi^2/\text{NDF}$ : 1321.0/22

All:  $21.609 \pm 0.067$   $\chi^2/\text{NDF}$ : 2186.6/45

- sign  $21.904 \pm 0.089$   $\chi^2/\text{NDF}$ : 840.9/22

# 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:  $-0.107 \pm 0.006$   $\chi^2/\text{NDF}$ : 98.8/5

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}$ : 535.1/17

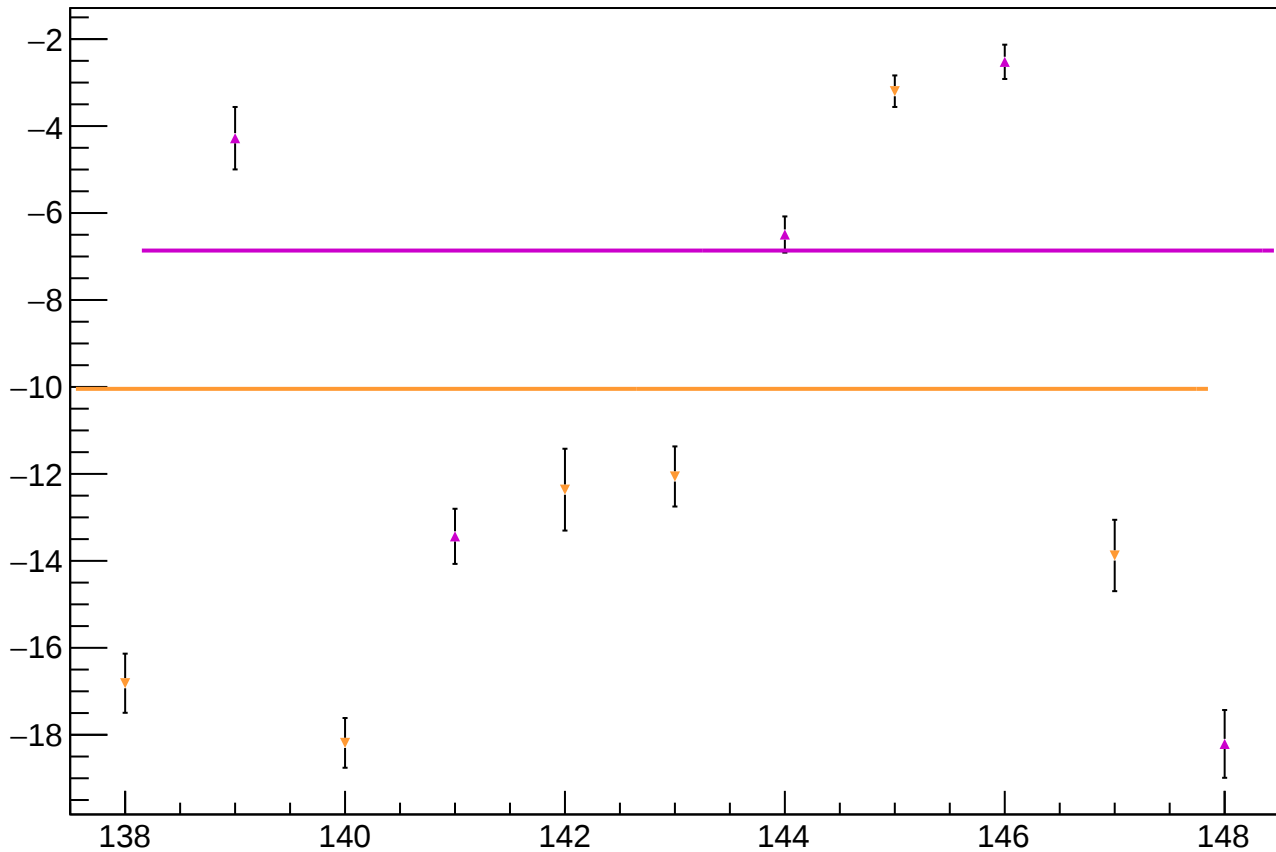
Left In:  $-0.133 \pm 0.005$   $\chi^2/\text{NDF}$ : 207.1/4

+ sign  $-0.120 \pm 0.005$   $\chi^2/\text{NDF}$ : 586.5/22

All:  $-0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 1398.7/45

- sign  $-0.150 \pm 0.005$   $\chi^2/\text{NDF}$ : 794.4/22

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: -10.044+/-0.239  $\chi^2/\text{NDF}$ : 694.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

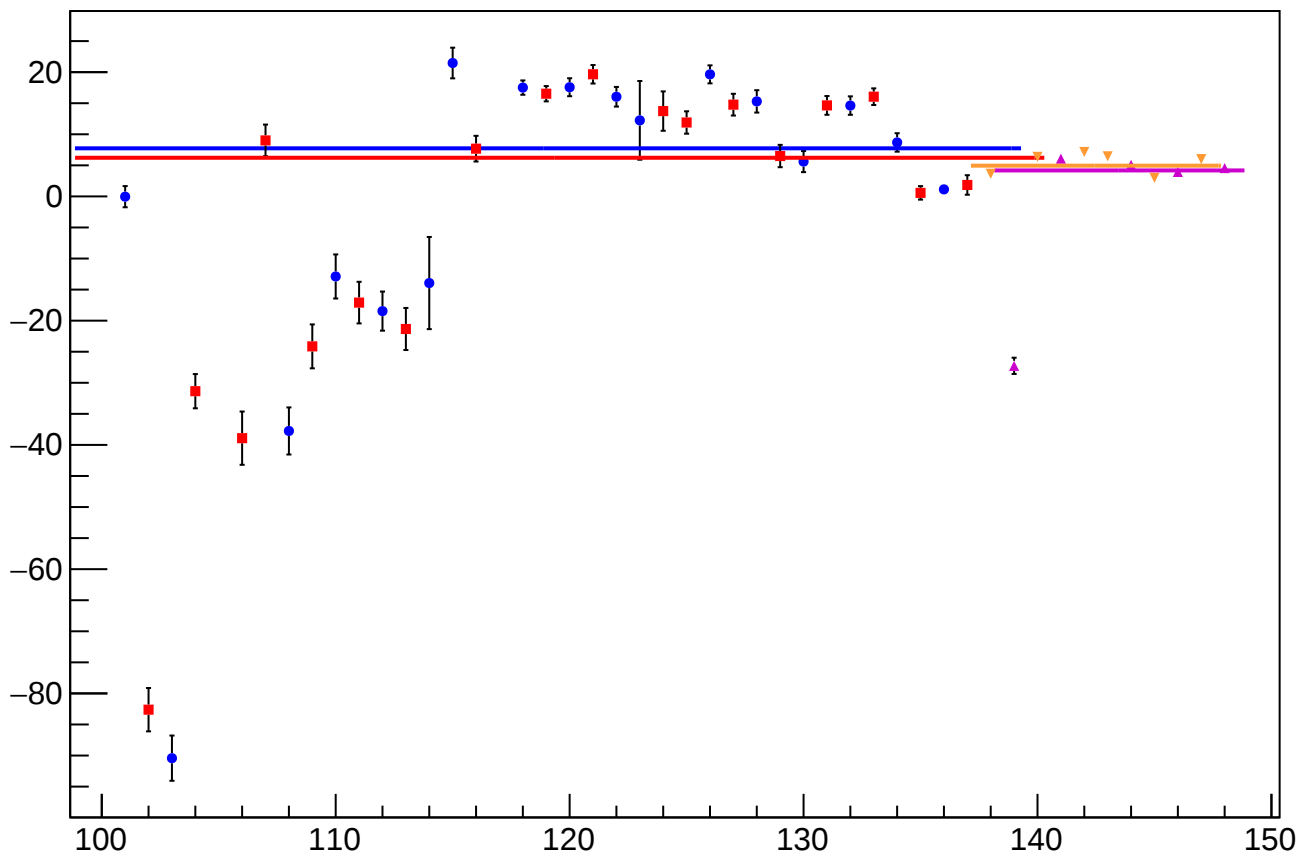
Left In: -6.863+/-0.234  $\chi^2/\text{NDF}$ : 454.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.420+/-0.167  $\chi^2/\text{NDF}$ : 1239.1/10

- 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:  $4.948 \pm 0.174$   $\chi^2/\text{NDF}$ : 91.1/5

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}$ : 1445.9/17

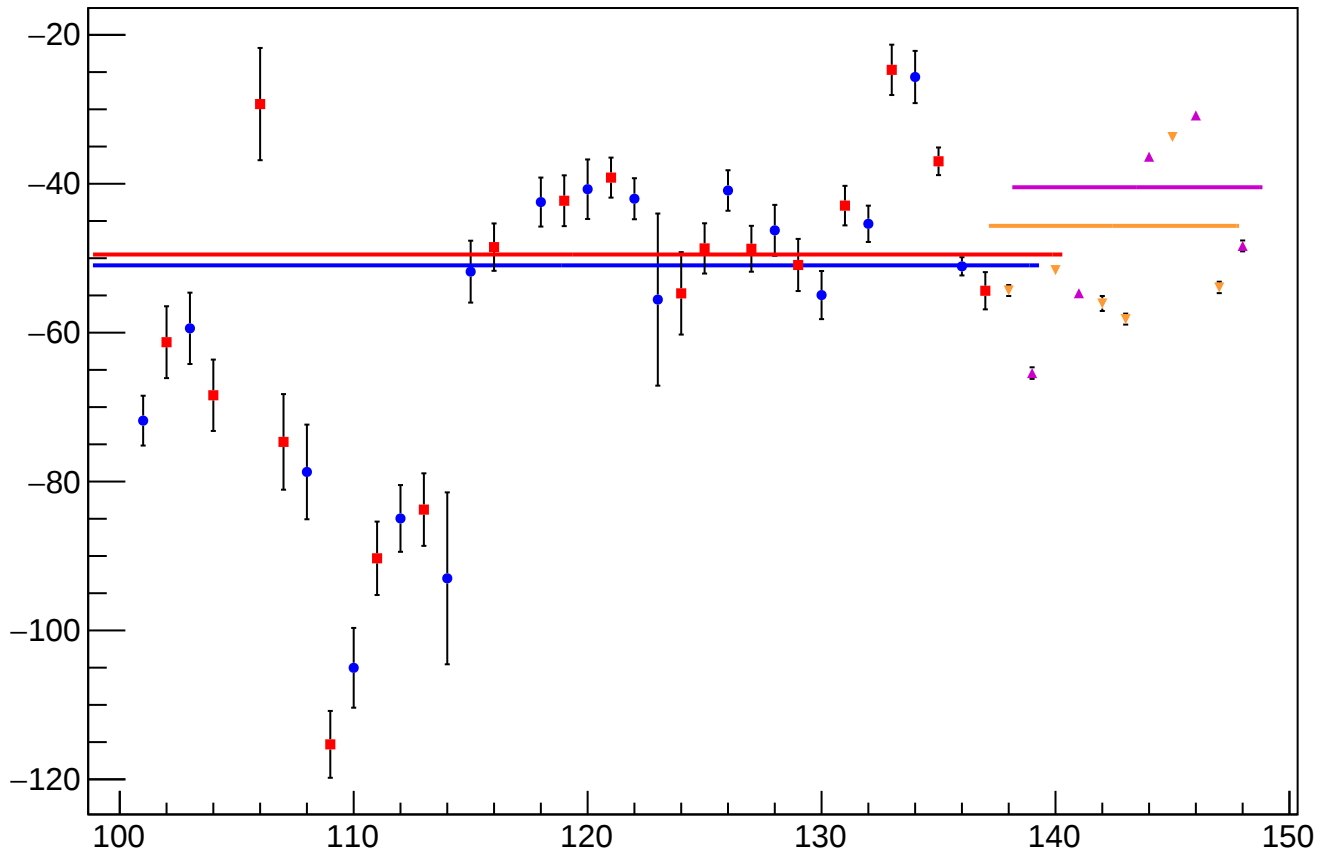
Left In:  $4.183 \pm 0.159$   $\chi^2/\text{NDF}$ : 607.9/4

+ sign  $5.388 \pm 0.160$   $\chi^2/\text{NDF}$ : 1490.5/22

All:  $4.872 \pm 0.109$   $\chi^2/\text{NDF}$ : 3583.2/45

- sign  $4.424 \pm 0.149$   $\chi^2/\text{NDF}$ : 2073.2/22

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: -45.652 $\pm$ 0.252  $\chi^2/\text{NDF}$ :1695.3/5

Right Out: -49.502 $\pm$ 0.798  $\chi^2/\text{NDF}$ : 506.4/17

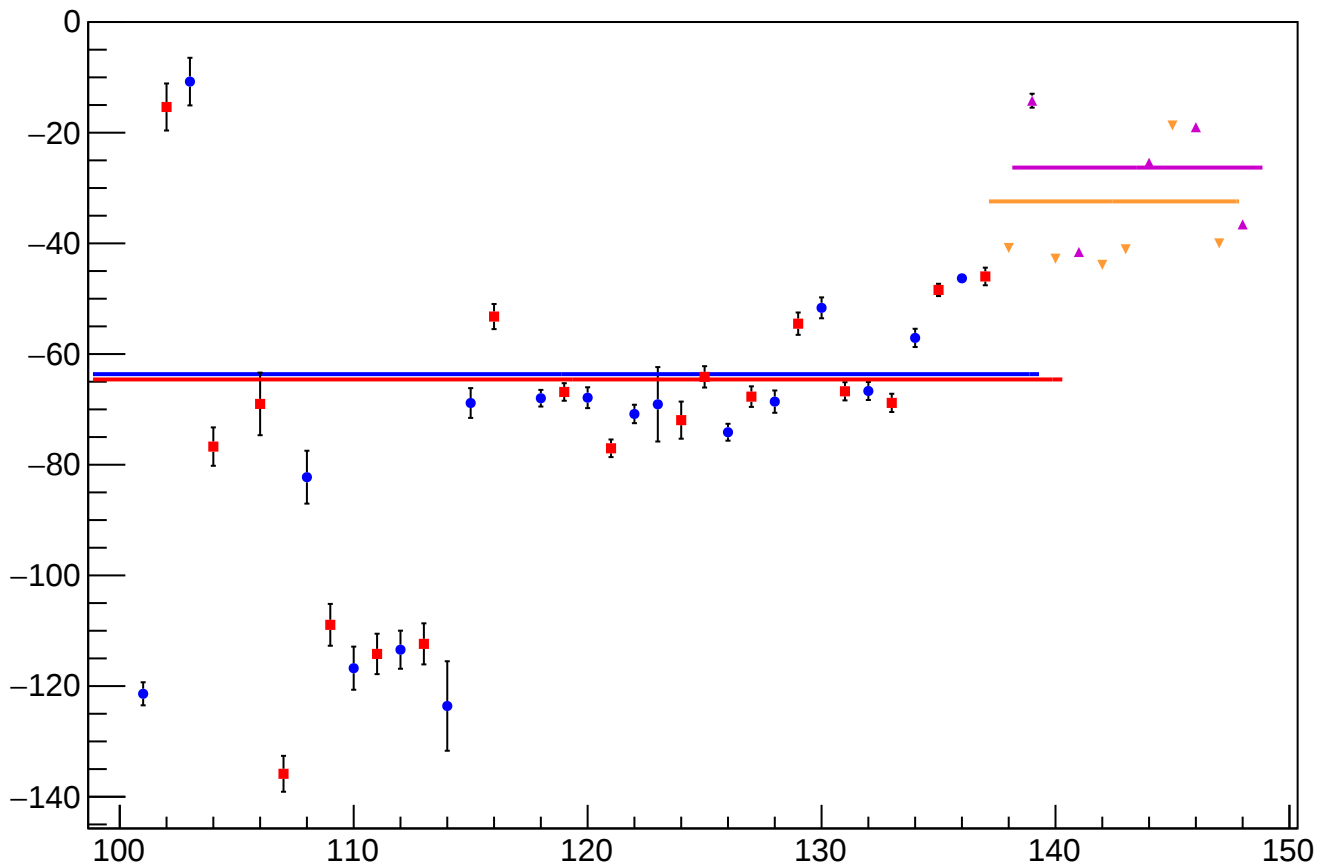
Left In: -40.468 $\pm$ 0.238  $\chi^2/\text{NDF}$ :2325.8/4

+ sign -46.206 $\pm$ 0.239  $\chi^2/\text{NDF}$ : 2073.4/22

All: -43.590 $\pm$ 0.165  $\chi^2/\text{NDF}$ : 5253.2/45

- sign -41.205 $\pm$ 0.228  $\chi^2/\text{NDF}$ : 2950.0/22

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -63.631 $\pm$ 0.446  $\chi^2$ /NDF: 2011.2/16

Left Out: -32.416 $\pm$ 0.211  $\chi^2$ /NDF: 2837.7/5

Right Out: -64.590 $\pm$ 0.482  $\chi^2$ /NDF: 1594.3/17

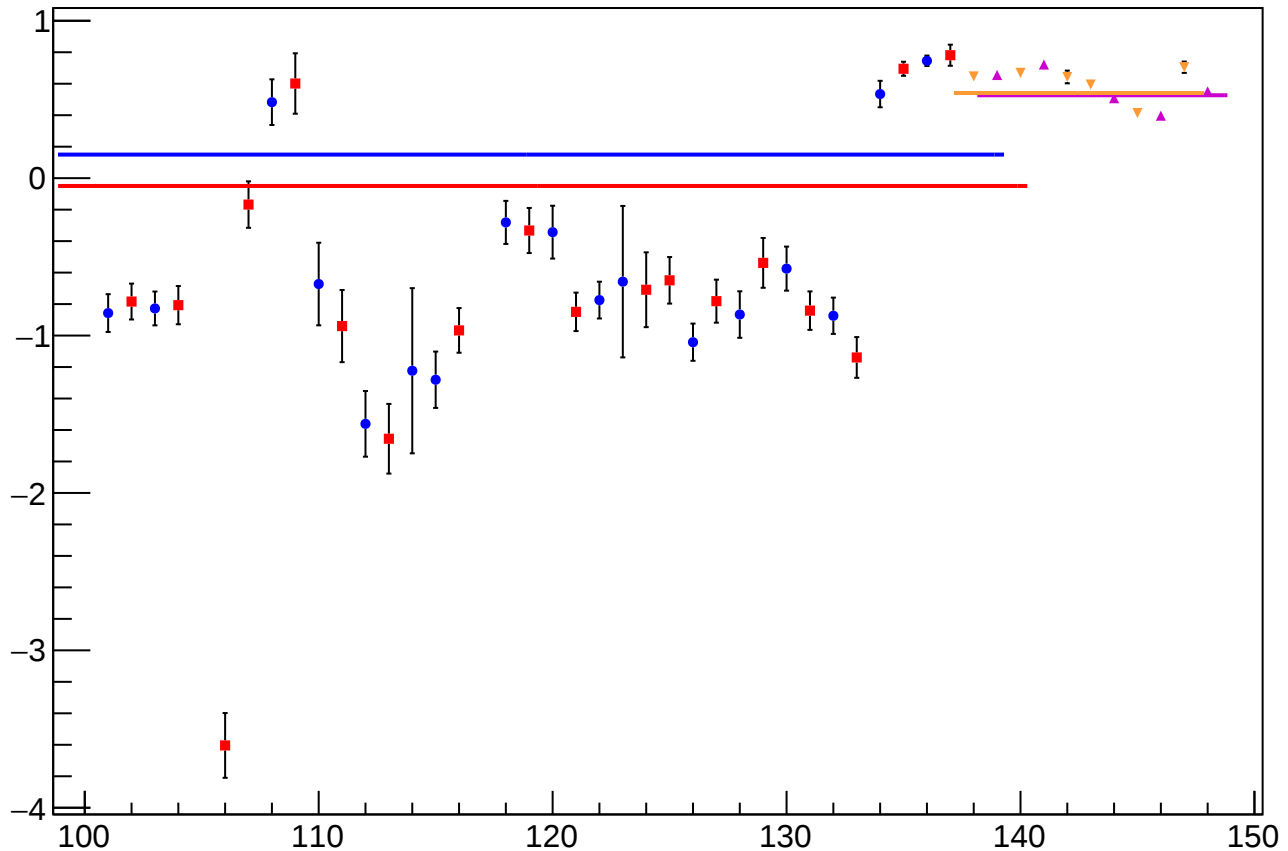
Left In: -26.304 $\pm$ 0.197  $\chi^2$ /NDF: 1802.4/4

+ sign -38.140 $\pm$ 0.191  $\chi^2$ /NDF: 8852.0/22

All: -34.817 $\pm$ 0.132  $\chi^2$ /NDF: 18230.6/45

- sign -31.784 $\pm$ 0.182  $\chi^2$ /NDF: 8799.2/22

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: 0.541 $\pm$ 0.010  $\chi^2$ /NDF:136.7/5

Right Out: -0.050 $\pm$ 0.026  $\chi^2$ /NDF: 1154.0/17

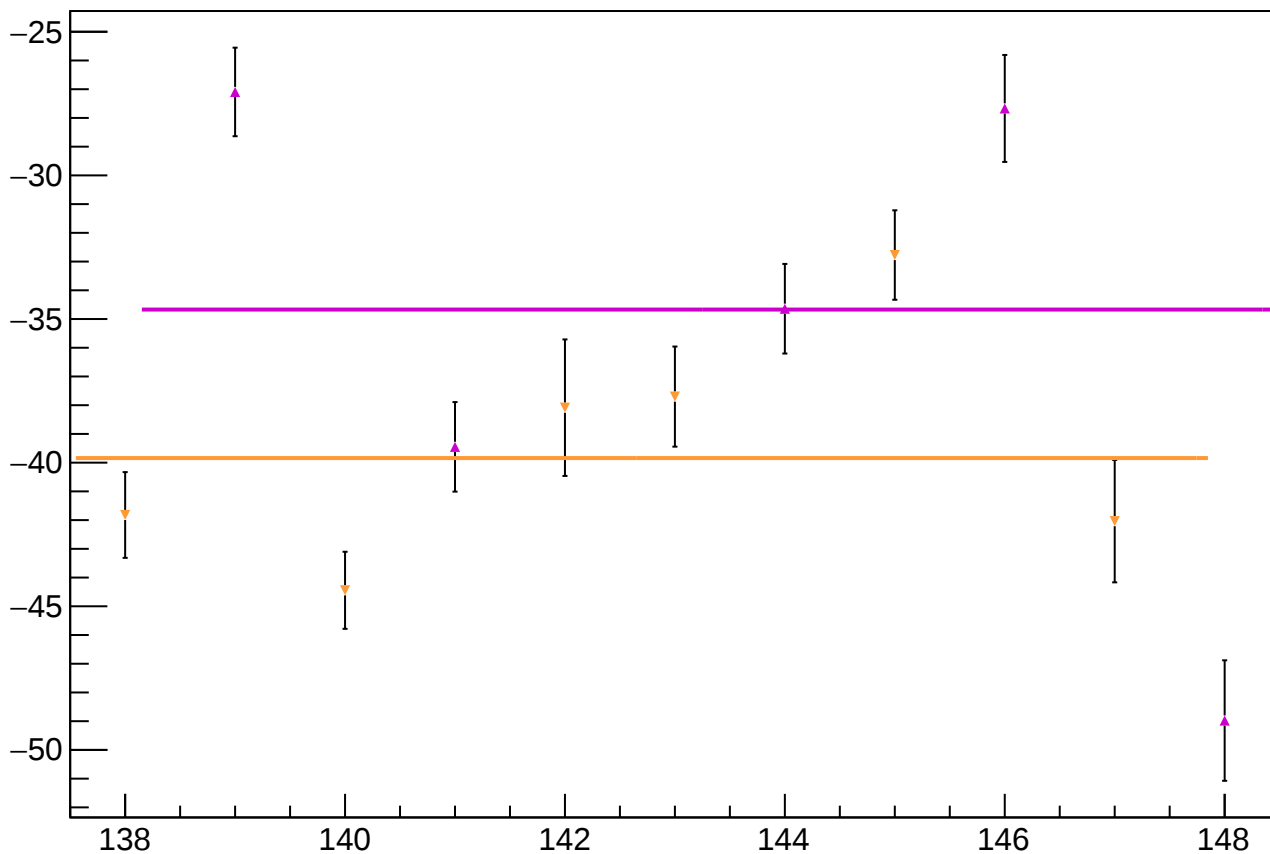
Left In: 0.527 $\pm$ 0.010  $\chi^2$ /NDF:127.5/4

+ sign 0.480 $\pm$ 0.009  $\chi^2$ /NDF: 1350.6/22

All: 0.465 $\pm$ 0.007  $\chi^2$ /NDF: 3055.8/45

- sign 0.450 $\pm$ 0.010  $\chi^2$ /NDF: 1700.4/22

# 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: -39.840+/-0.683  $\chi^2/\text{NDF}$ : 37.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

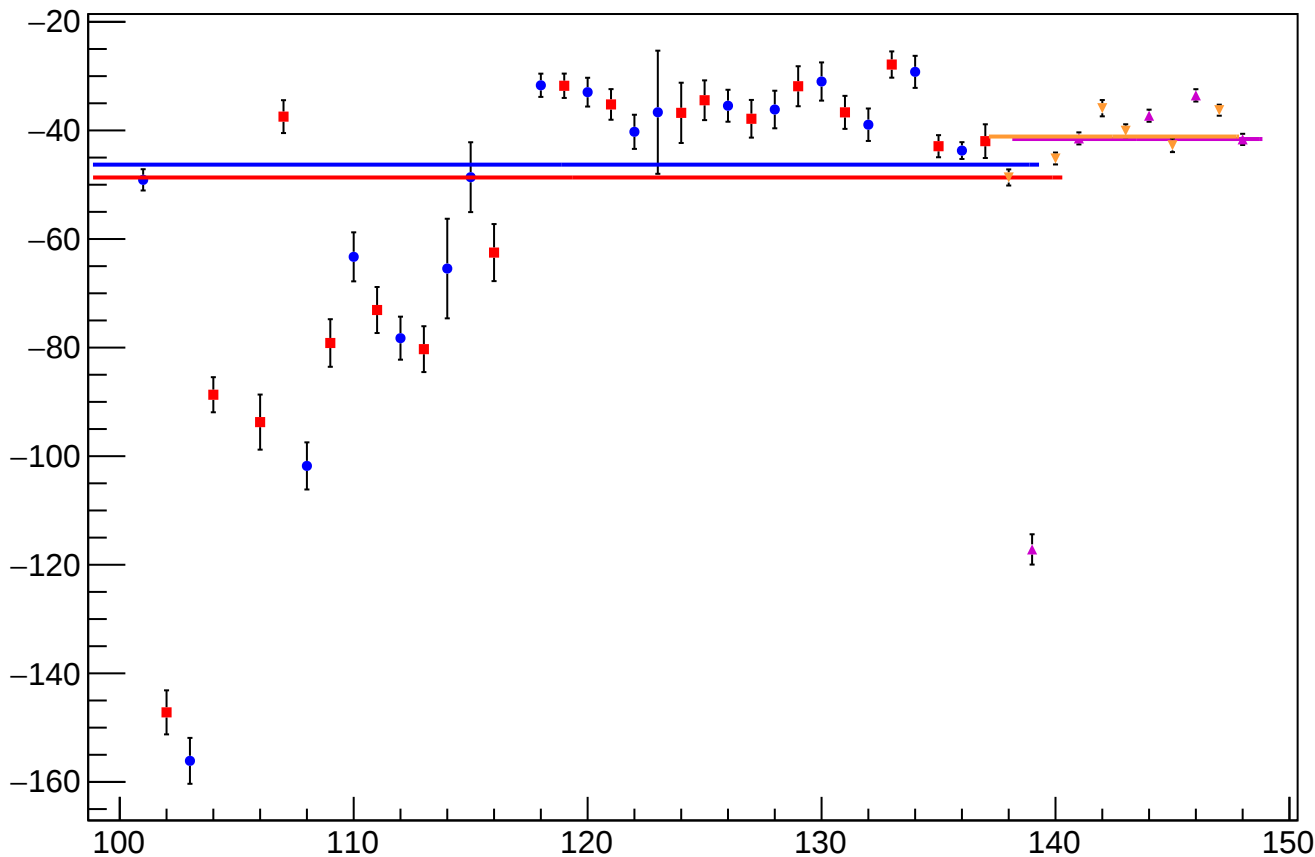
Left In: -34.671+/-0.754  $\chi^2/\text{NDF}$ : 94.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -37.510+/-0.506  $\chi^2/\text{NDF}$ : 157.3/10

- 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:  $-41.126 \pm 0.499$   $\chi^2/\text{NDF}$ : 76.7/5

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}$ : 1212.3/17

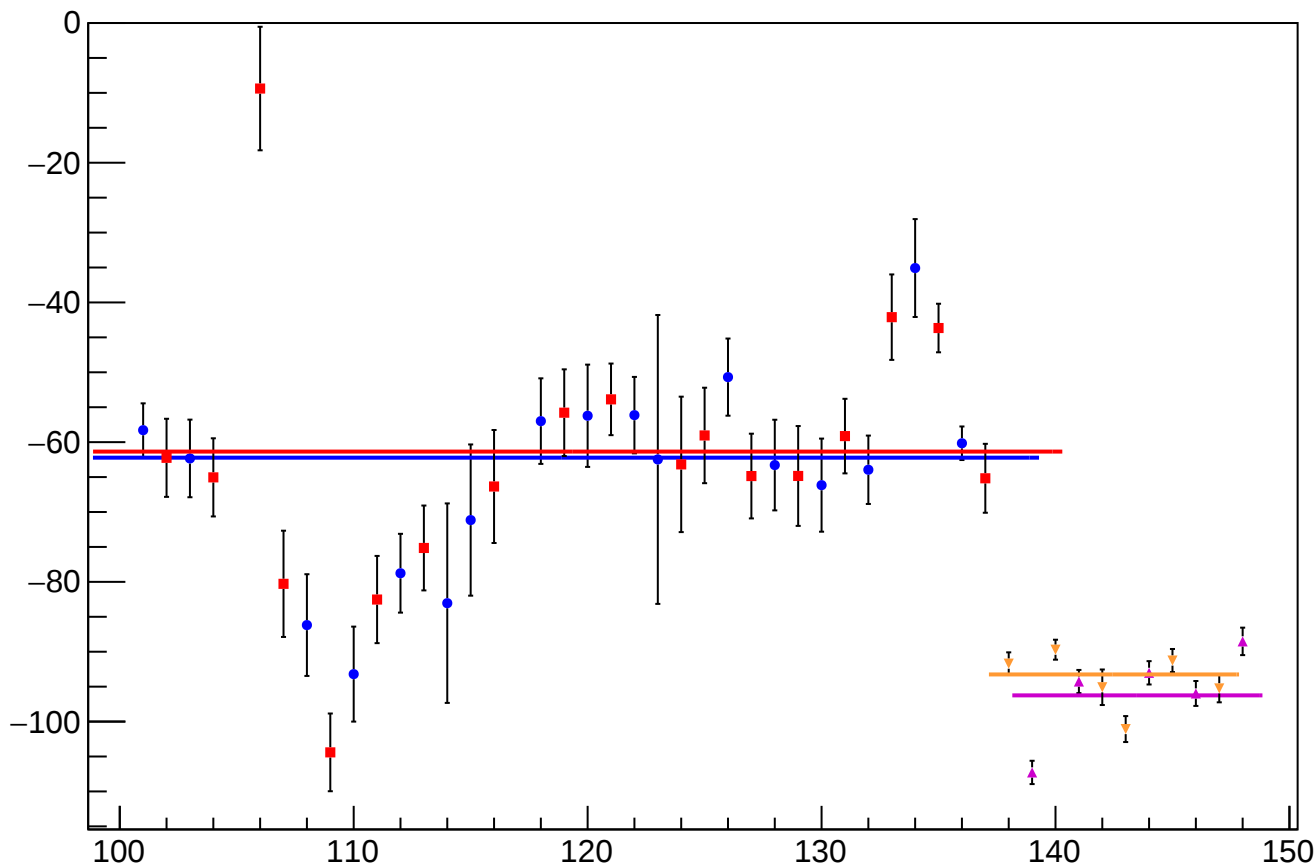
Left In:  $-41.582 \pm 0.537$   $\chi^2/\text{NDF}$ : 797.8/4

+ sign  $-42.792 \pm 0.411$   $\chi^2/\text{NDF}$ : 1195.3/22

All:  $-43.322 \pm 0.300$   $\chi^2/\text{NDF}$ : 3266.6/45

- sign  $-43.929 \pm 0.439$   $\chi^2/\text{NDF}$ : 2067.7/22

# 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:  $-93.254 \pm 0.719$   $\chi^2/\text{NDF}$ : 27.7/5

Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}$ : 158.4/17

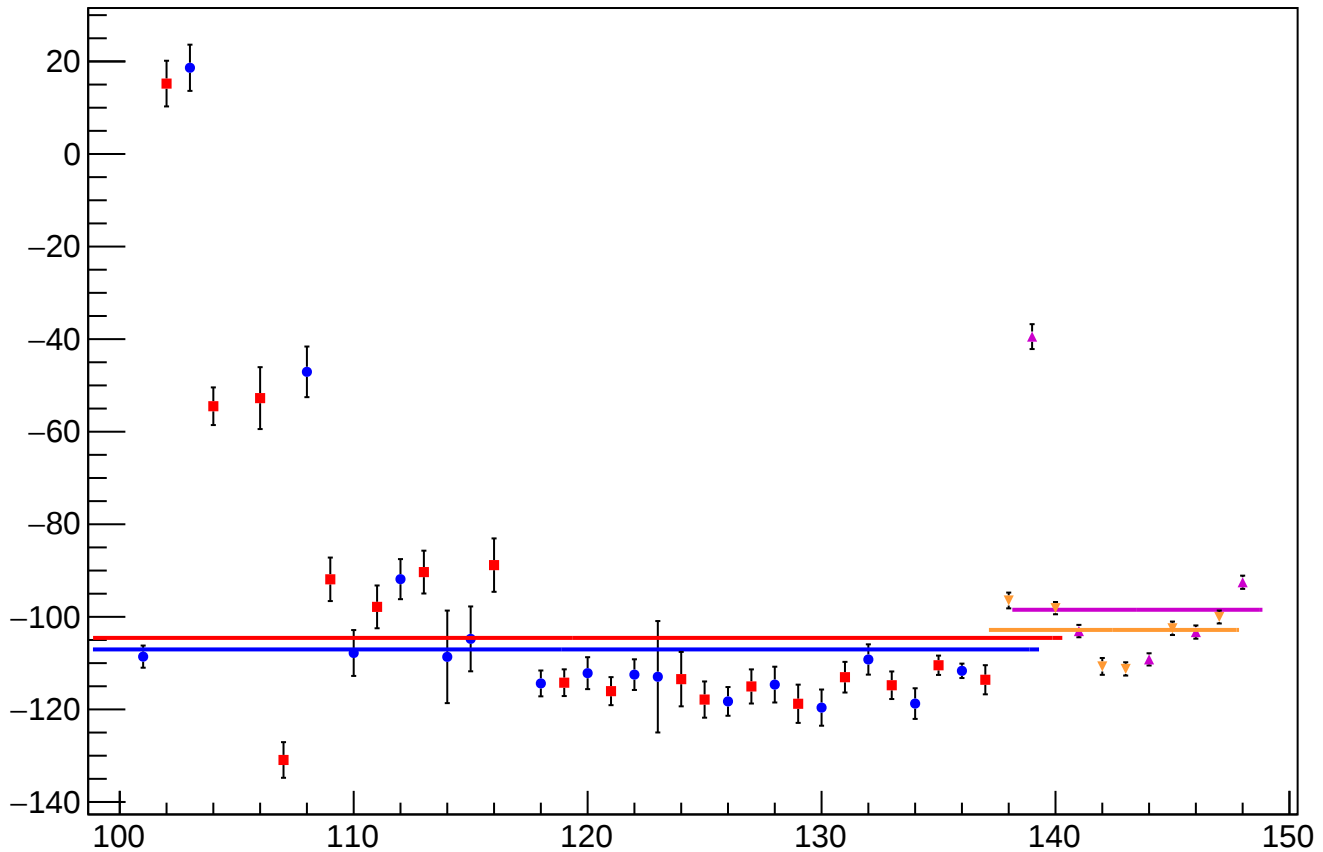
Left In:  $-96.249 \pm 0.777$   $\chi^2/\text{NDF}$ : 64.4/4

+ sign  $-86.083 \pm 0.631$   $\chi^2/\text{NDF}$ : 525.5/22

All:  $-86.913 \pm 0.462$   $\chi^2/\text{NDF}$ : 1236.0/45

- sign  $-87.871 \pm 0.678$   $\chi^2/\text{NDF}$ : 706.8/22

# 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:  $-102.827 \pm 0.610$   $\chi^2/\text{NDF}: 83.8/5$

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}: 967.4/17$

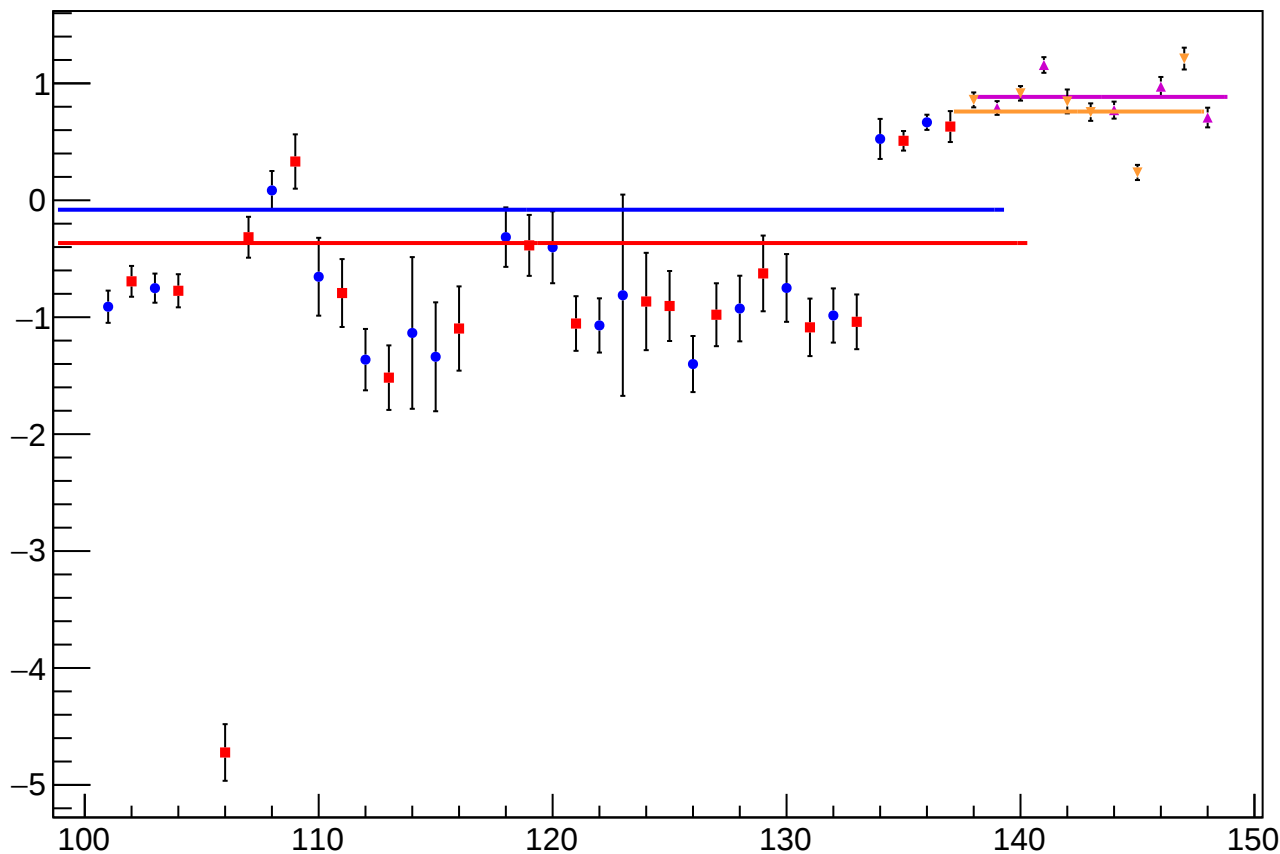
Left In:  $-98.472 \pm 0.667$   $\chi^2/\text{NDF}: 588.0/4$

+ sign  $-104.347 \pm 0.488$   $\chi^2/\text{NDF}: 928.8/22$

All:  $-102.688 \pm 0.358$   $\chi^2/\text{NDF}: 2540.4/45$

- sign  $-100.752 \pm 0.527$   $\chi^2/\text{NDF}: 1586.6/22$

# 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:  $0.759 \pm 0.030$   $\chi^2/\text{NDF}$ : 97.5/5

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

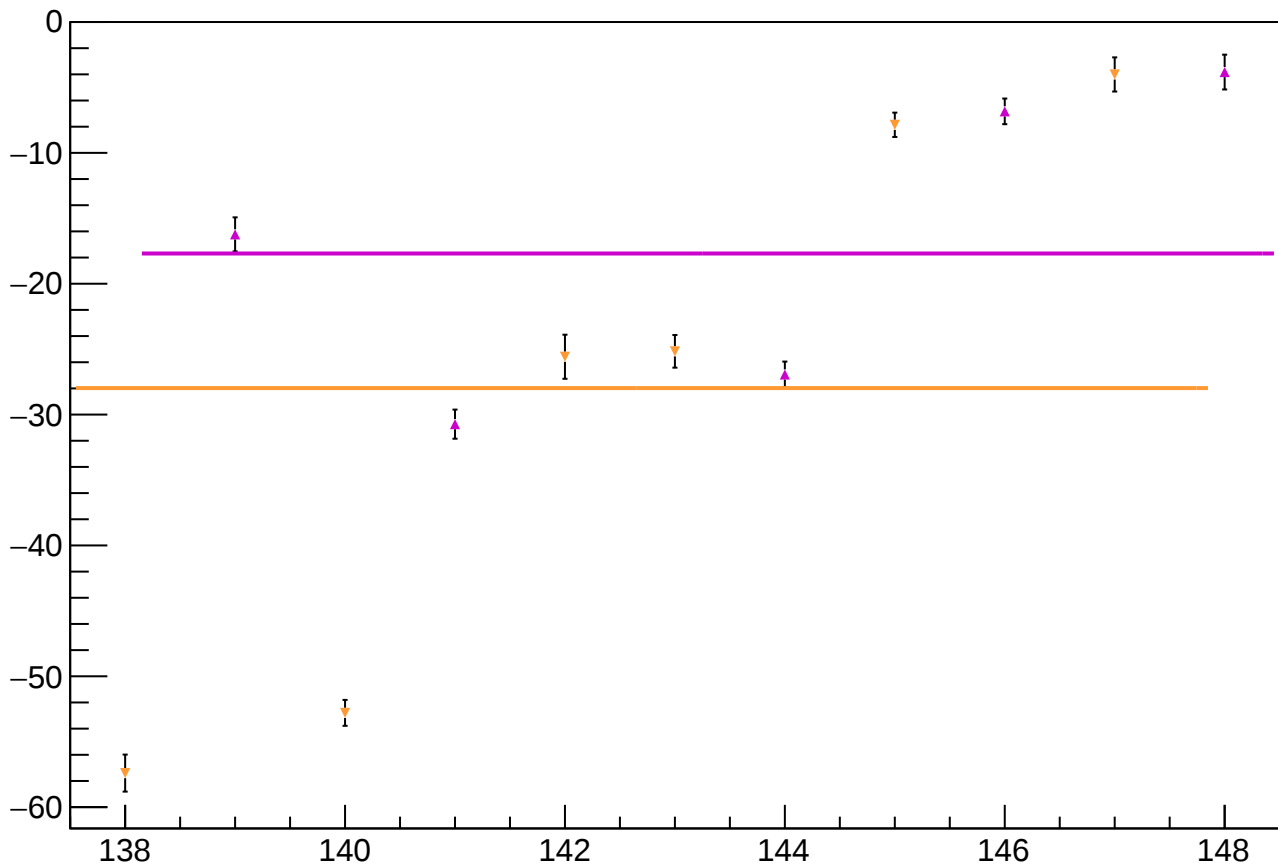
Left In:  $0.884 \pm 0.032$   $\chi^2/\text{NDF}$ : 27.1/4

+ sign  $0.480 \pm 0.024$   $\chi^2/\text{NDF}$ : 691.0/22

All:  $0.468 \pm 0.018$   $\chi^2/\text{NDF}$ : 1821.3/45

- sign  $0.455 \pm 0.026$   $\chi^2/\text{NDF}$ : 1129.7/22

# 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: -27.975+/-0.484  $\chi^2/\text{NDF}$ : 1873.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

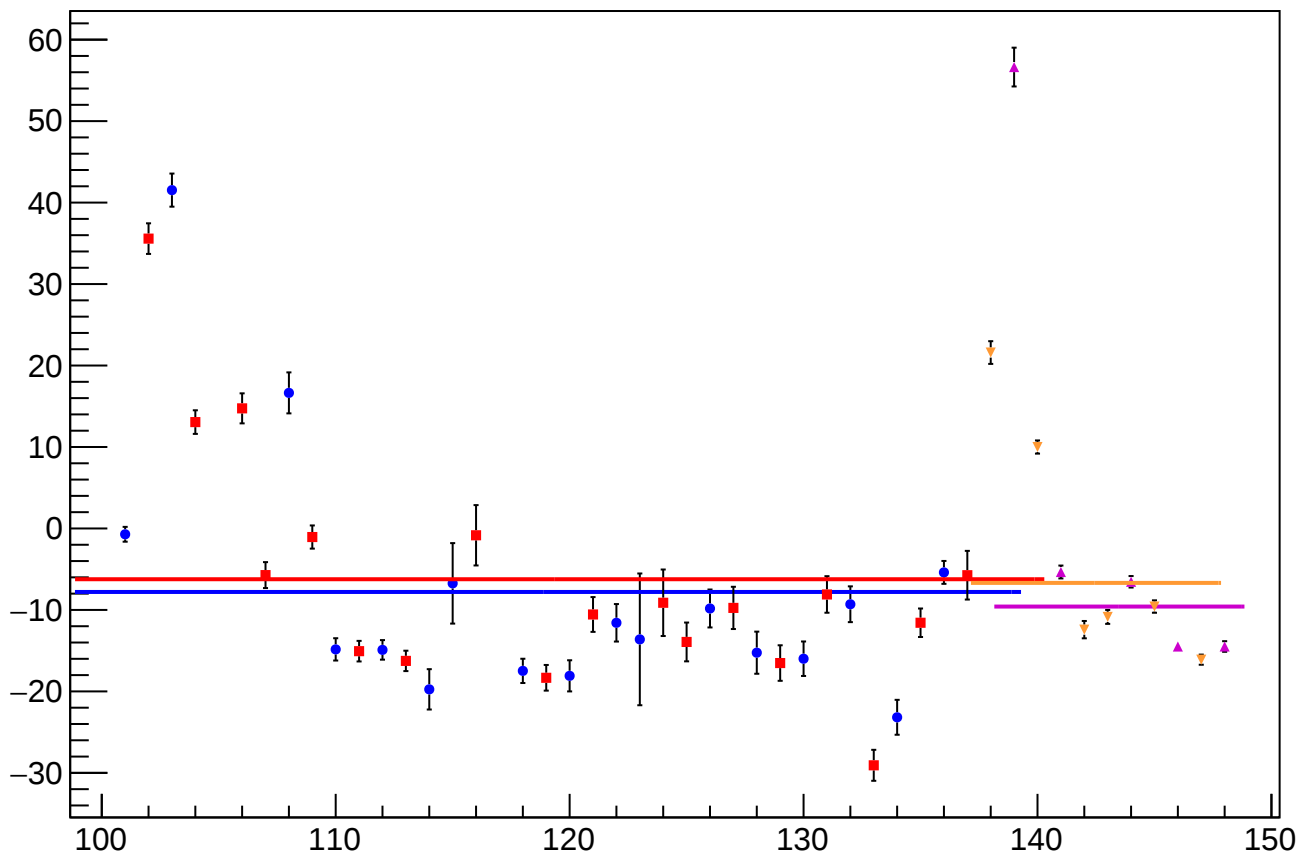
Left In: -17.690+/-0.498  $\chi^2/\text{NDF}$ : 458.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.974+/-0.347  $\chi^2/\text{NDF}$ : 2551.0/10

- 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:  $-6.681 \pm 0.341$   $\chi^2/\text{NDF}$ : 1133.7/5

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

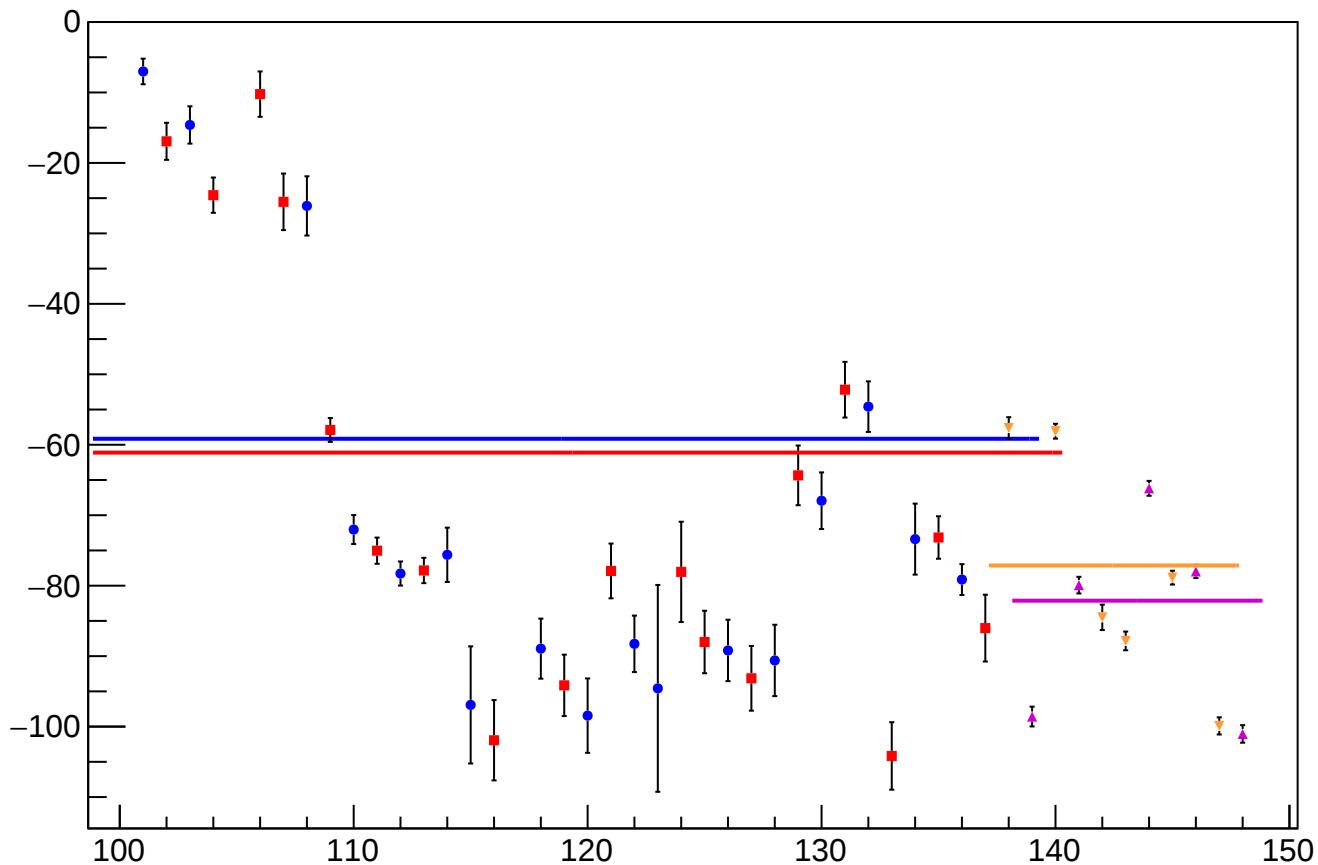
Left In:  $-9.586 \pm 0.337$   $\chi^2/\text{NDF}$ : 941.6/4

+ sign  $-7.113 \pm 0.267$   $\chi^2/\text{NDF}$ : 2120.5/22

All:  $-7.714 \pm 0.188$   $\chi^2/\text{NDF}$ : 4292.9/45

- sign  $-8.308 \pm 0.265$   $\chi^2/\text{NDF}$ : 2162.3/22

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:  $-77.133 \pm 0.506$   $\chi^2/\text{NDF}$ : 922.1/5

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

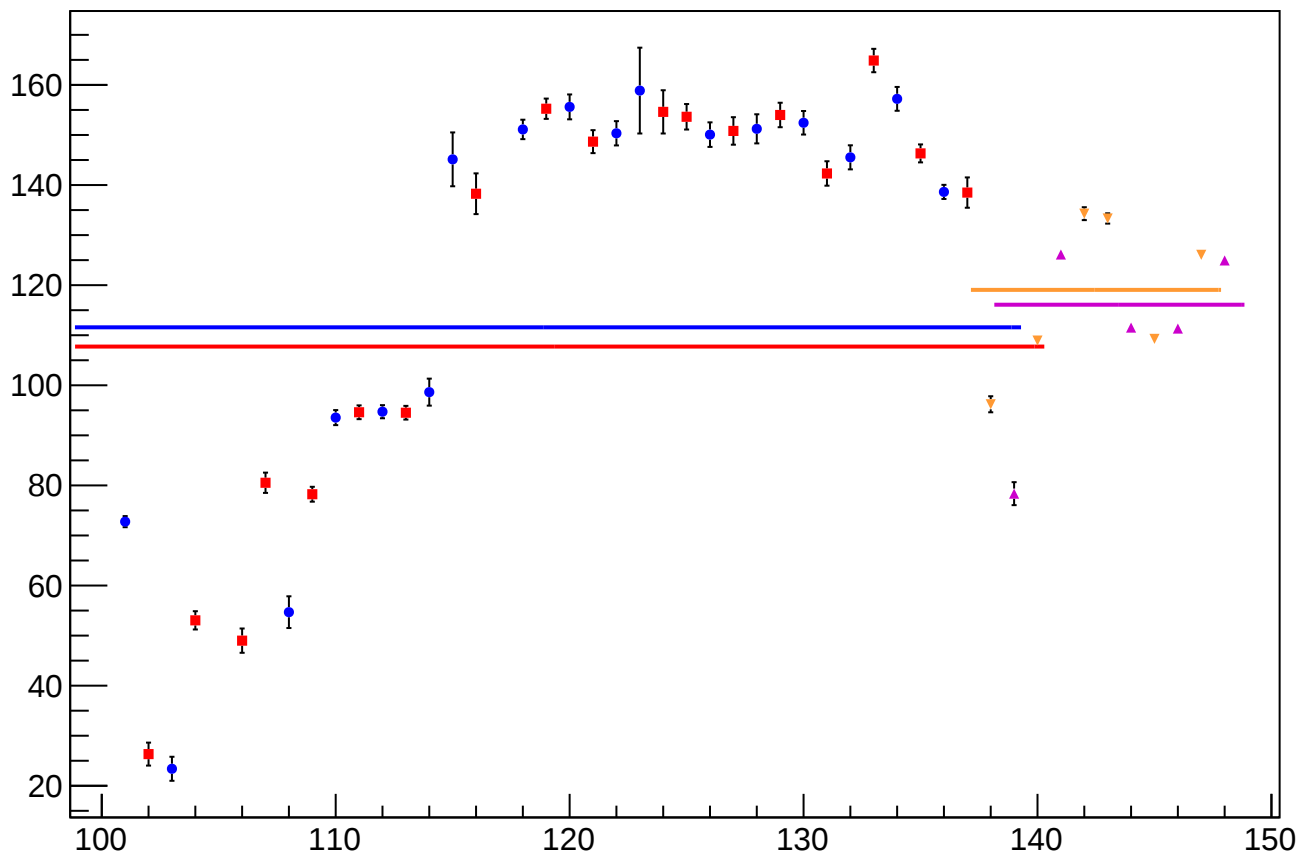
Left In:  $-82.128 \pm 0.507$   $\chi^2/\text{NDF}$ : 617.5/4

+ sign  $-71.458 \pm 0.419$   $\chi^2/\text{NDF}$ : 3038.9/22

All:  $-73.255 \pm 0.294$   $\chi^2/\text{NDF}$ : 5593.1/45

- sign  $-74.998 \pm 0.412$   $\chi^2/\text{NDF}$ : 2517.9/22

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: 119.060 $\pm$ 0.420  $\chi^2$ /NDF:834.8/5

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

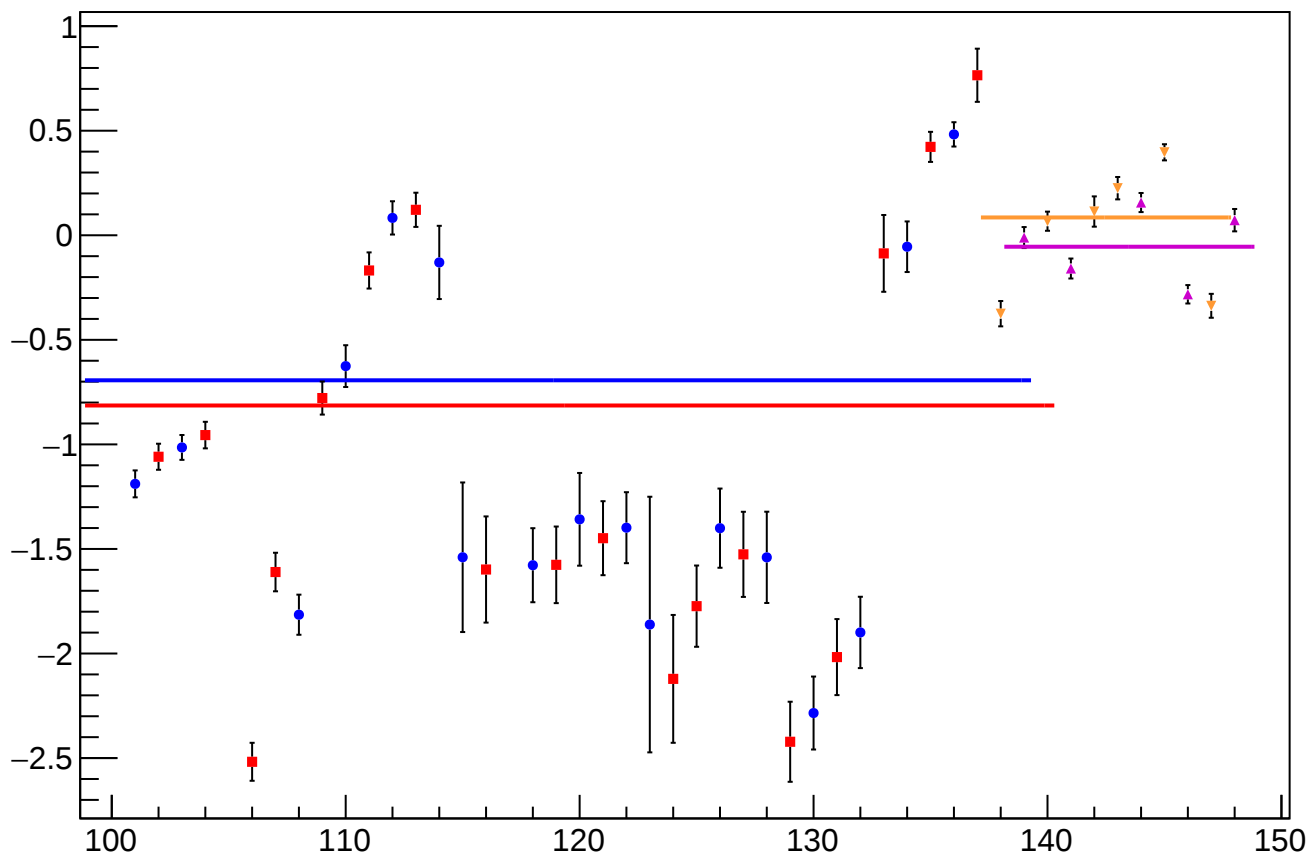
Left In: 116.095 $\pm$ 0.421  $\chi^2$ /NDF:544.6/4

+ sign 115.869 $\pm$ 0.318  $\chi^2$ /NDF: 6915.8/22

All: 114.203 $\pm$ 0.225  $\chi^2$ /NDF: 14519.4/45

- sign 112.530 $\pm$ 0.319  $\chi^2$ /NDF: 7548.8/22

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:  $0.085 \pm 0.021$   $\chi^2/\text{NDF}$ : 184.5/5

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

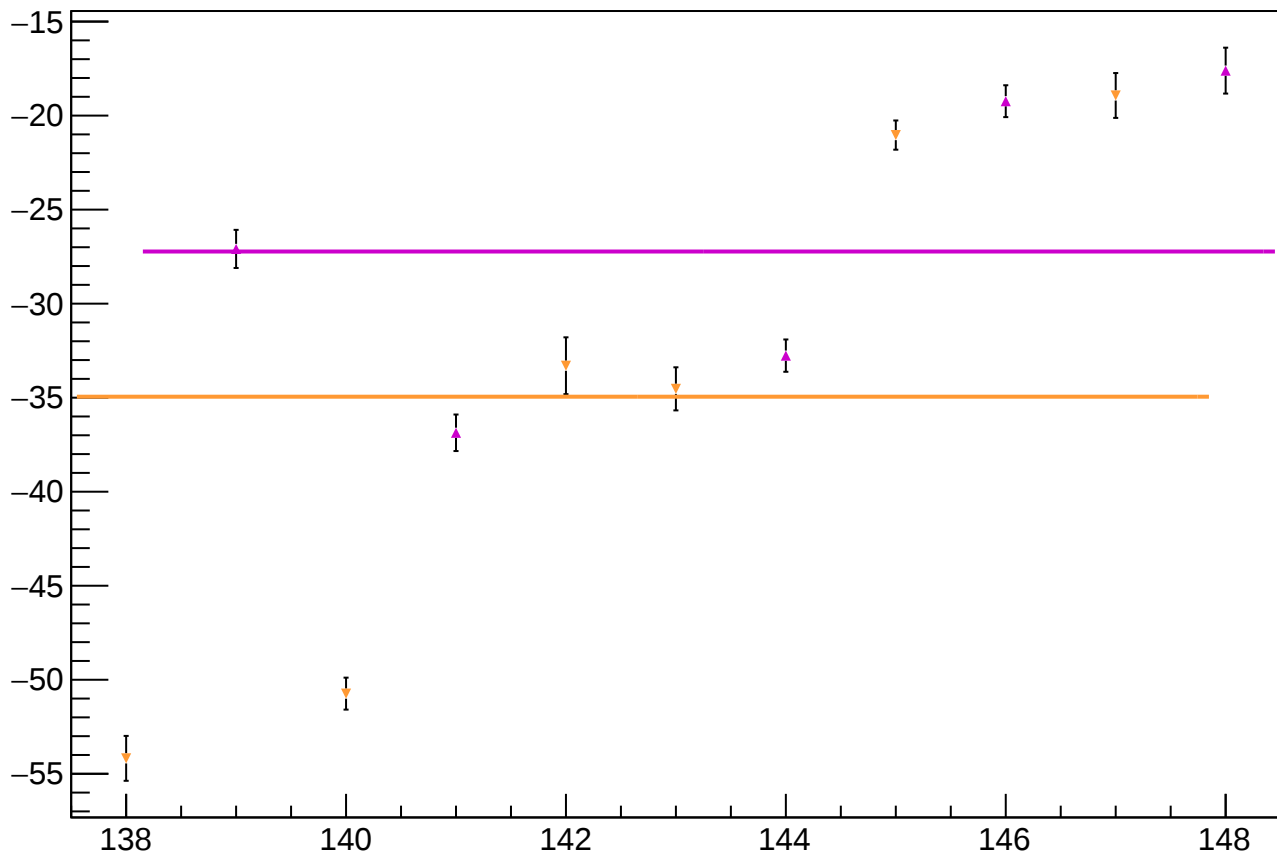
Left In:  $-0.055 \pm 0.021$   $\chi^2/\text{NDF}$ : 59.3/4

+ sign  $-0.225 \pm 0.016$   $\chi^2/\text{NDF}$ : 1722.9/22

All:  $-0.305 \pm 0.011$   $\chi^2/\text{NDF}$ : 3683.7/45

- sign  $-0.384 \pm 0.016$   $\chi^2/\text{NDF}$ : 1912.9/22

# 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: -34.948+/-0.421  $\chi^2/\text{NDF}$ : 1107.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

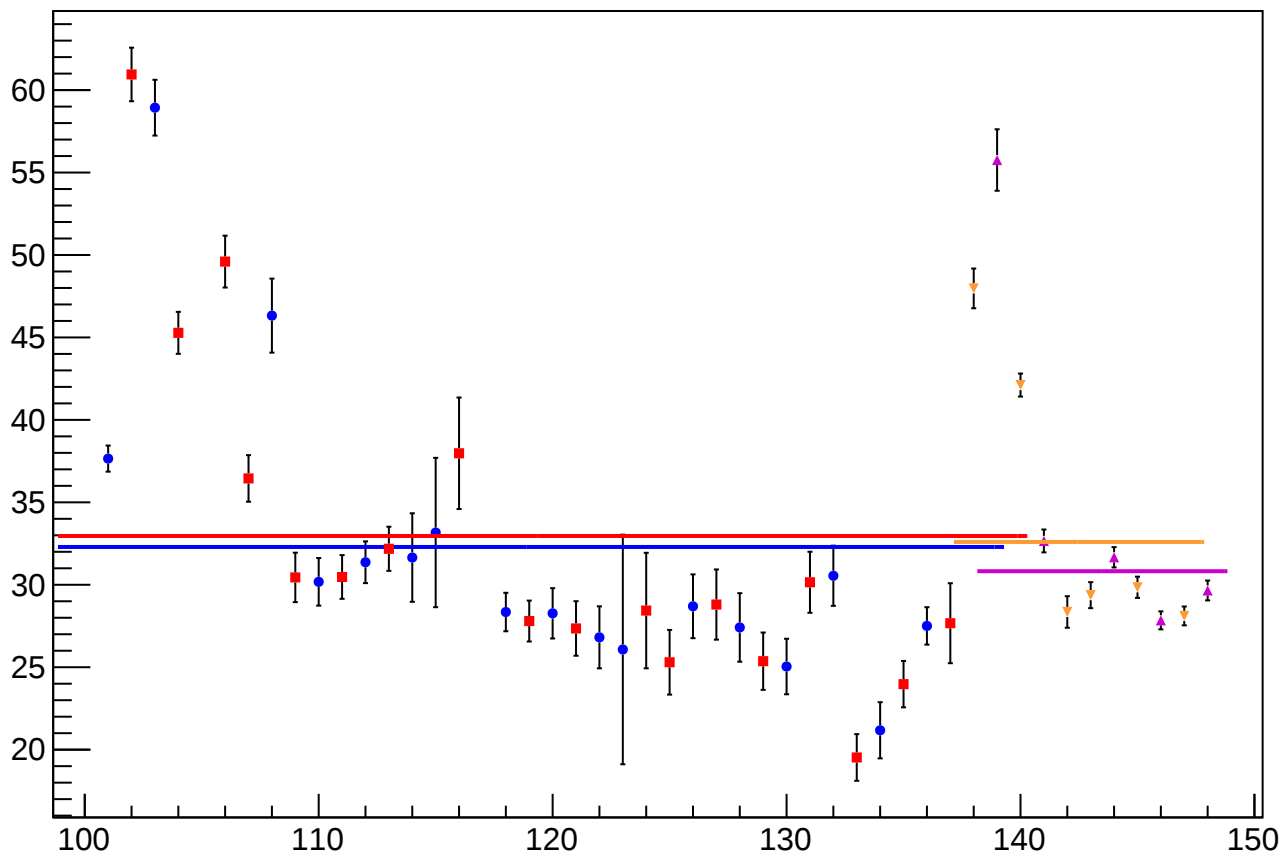
Left In: -27.228+/-0.428  $\chi^2/\text{NDF}$ : 291.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -31.155+/-0.300  $\chi^2/\text{NDF}$ : 1563.8/10

- 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:  $32.598 \pm 0.303$   $\chi^2/\text{NDF}: 465.3/5$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

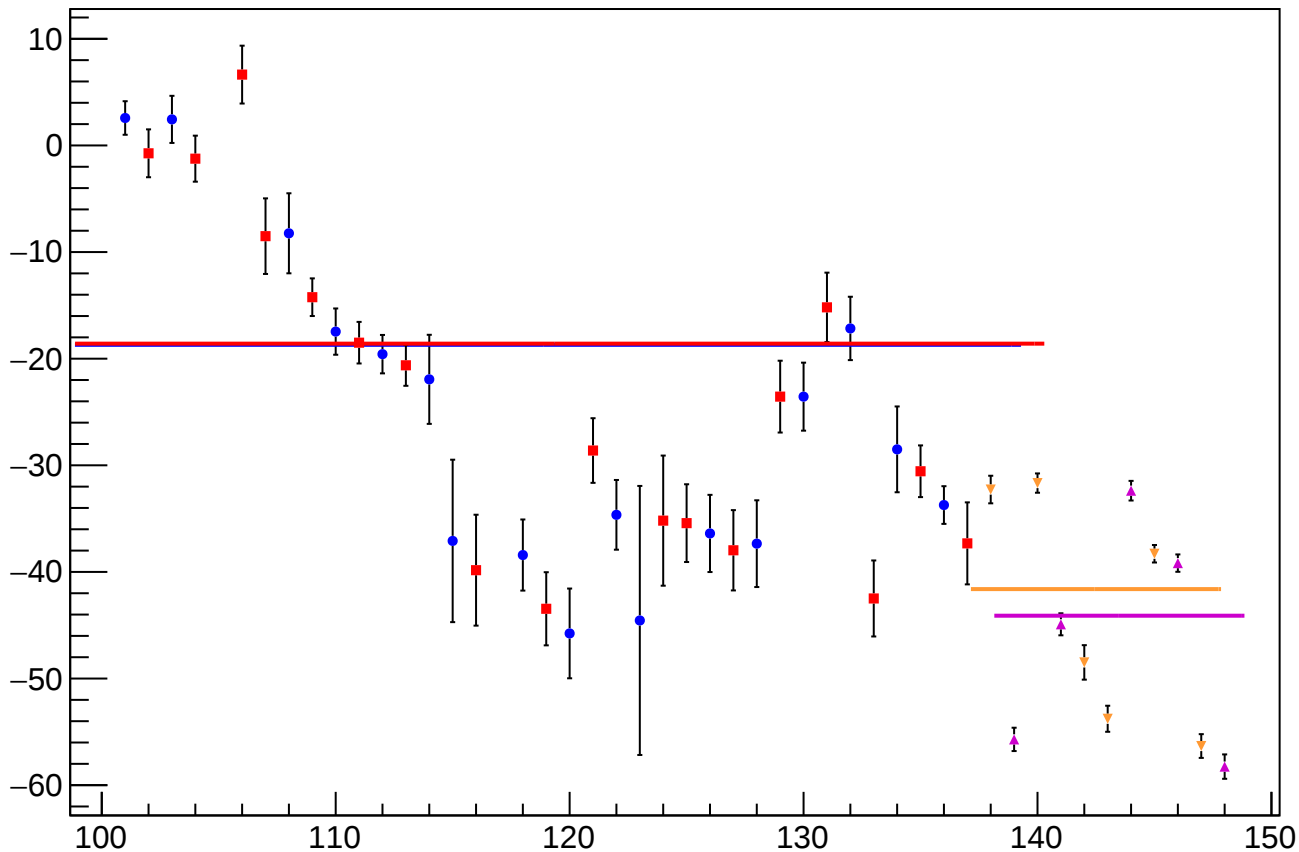
Left In:  $30.823 \pm 0.300$   $\chi^2/\text{NDF}: 221.2/4$

+ sign  $32.477 \pm 0.235$   $\chi^2/\text{NDF}: 918.2/22$

All:  $32.061 \pm 0.166$   $\chi^2/\text{NDF}: 1889.1/45$

- sign  $31.644 \pm 0.235$   $\chi^2/\text{NDF}: 964.7/22$

# 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:  $-41.611 \pm 0.440$   $\chi^2/\text{NDF}$ : 480.8/5

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}$ : 461.3/17

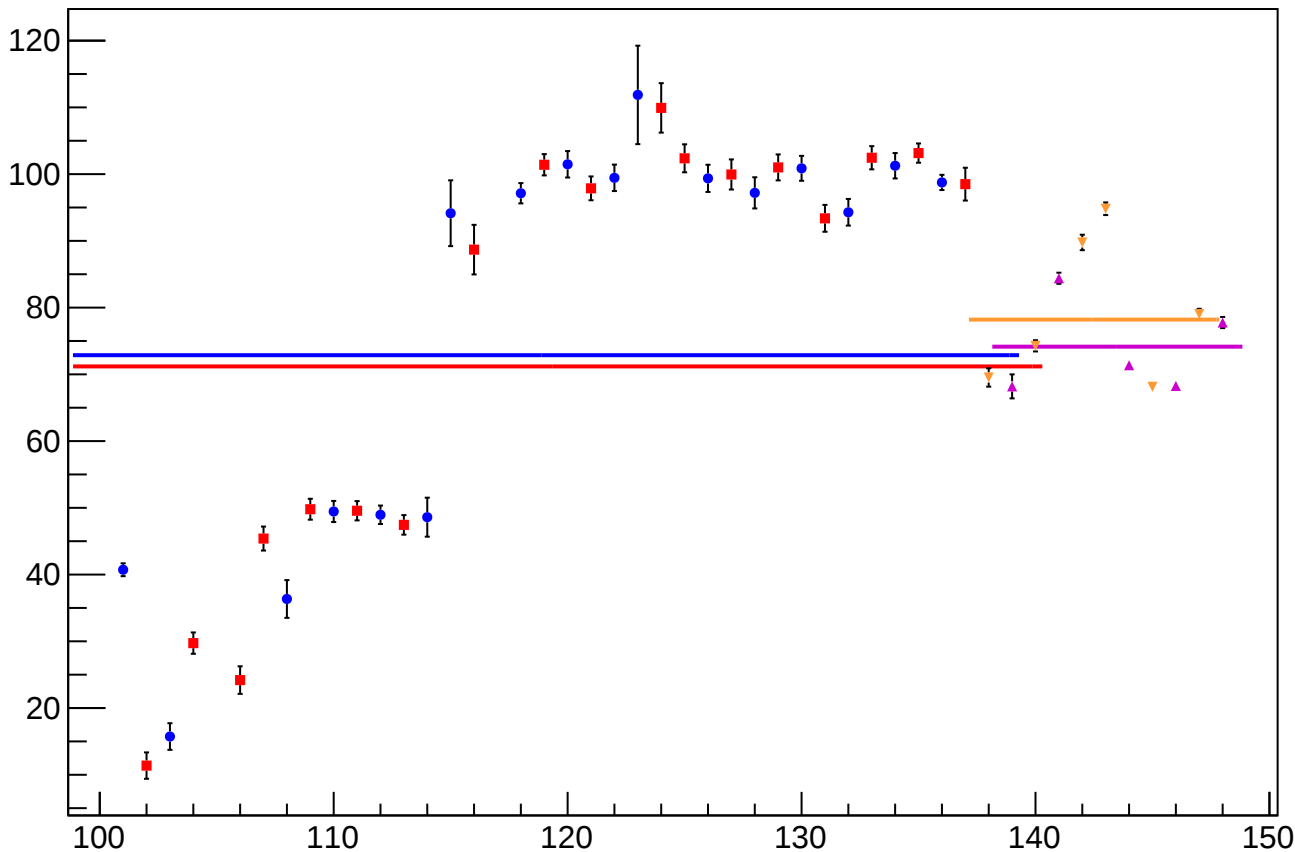
Left In:  $-44.106 \pm 0.437$   $\chi^2/\text{NDF}$ : 464.9/4

+ sign  $-34.655 \pm 0.367$   $\chi^2/\text{NDF}$ : 1822.8/22

All:  $-35.392 \pm 0.258$   $\chi^2/\text{NDF}$ : 3823.0/45

- sign  $-36.110 \pm 0.363$   $\chi^2/\text{NDF}$ : 1992.3/22

# 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: 78.205+/-0.371  $\chi^2/\text{NDF}$ : 656.3/5

Right Out: 71.190+/-0.434  $\chi^2/\text{NDF}$ : 5375.1/17

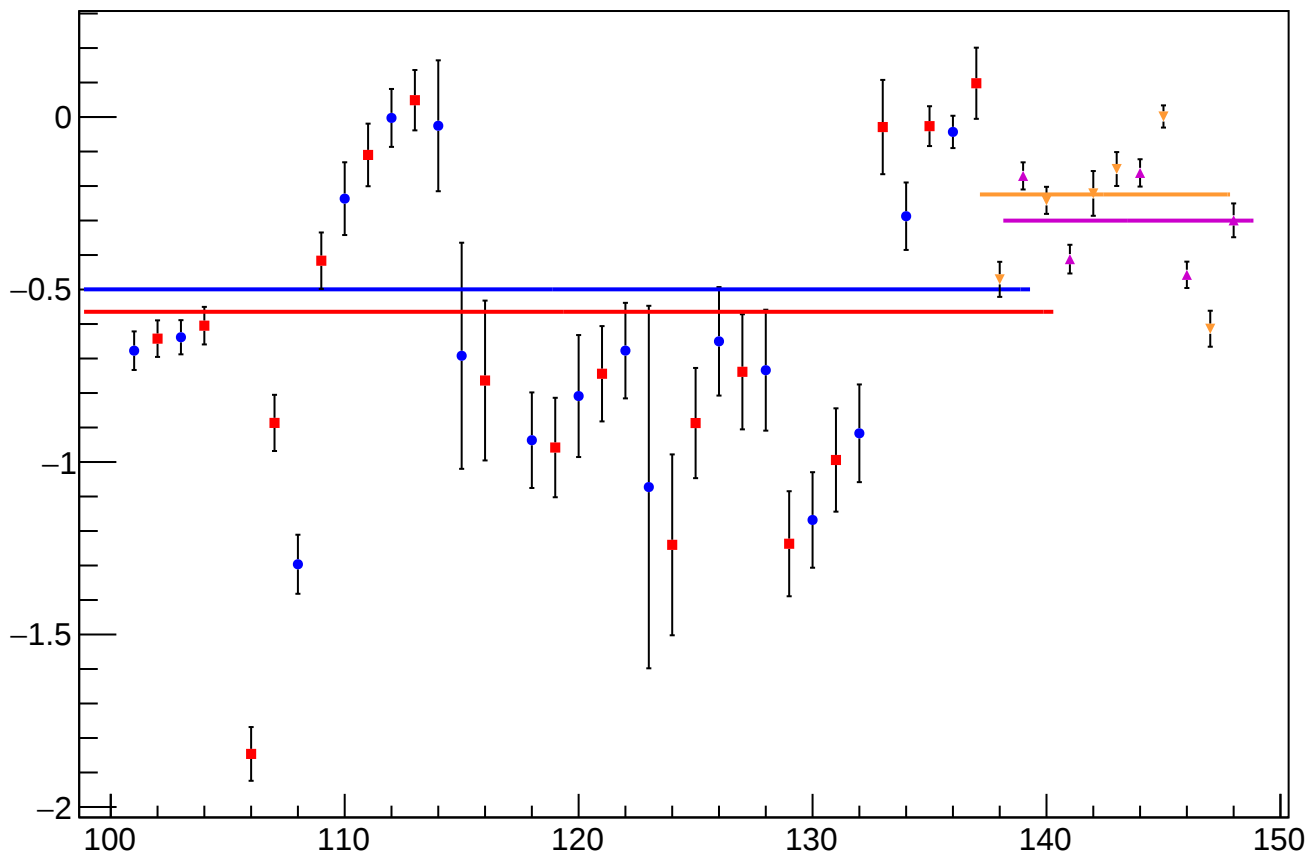
Left In: 74.148+/-0.371  $\chi^2/\text{NDF}$ : 271.7/4

+ sign 75.908+/-0.280  $\chi^2/\text{NDF}$ : 5472.5/22

All: 74.415+/-0.199  $\chi^2/\text{NDF}$ : 11203.5/45

- sign 72.899+/-0.282  $\chi^2/\text{NDF}$ : 5673.7/22

# 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:  $-0.224 \pm 0.018$   $\chi^2/\text{NDF}$ : 131.0/5

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

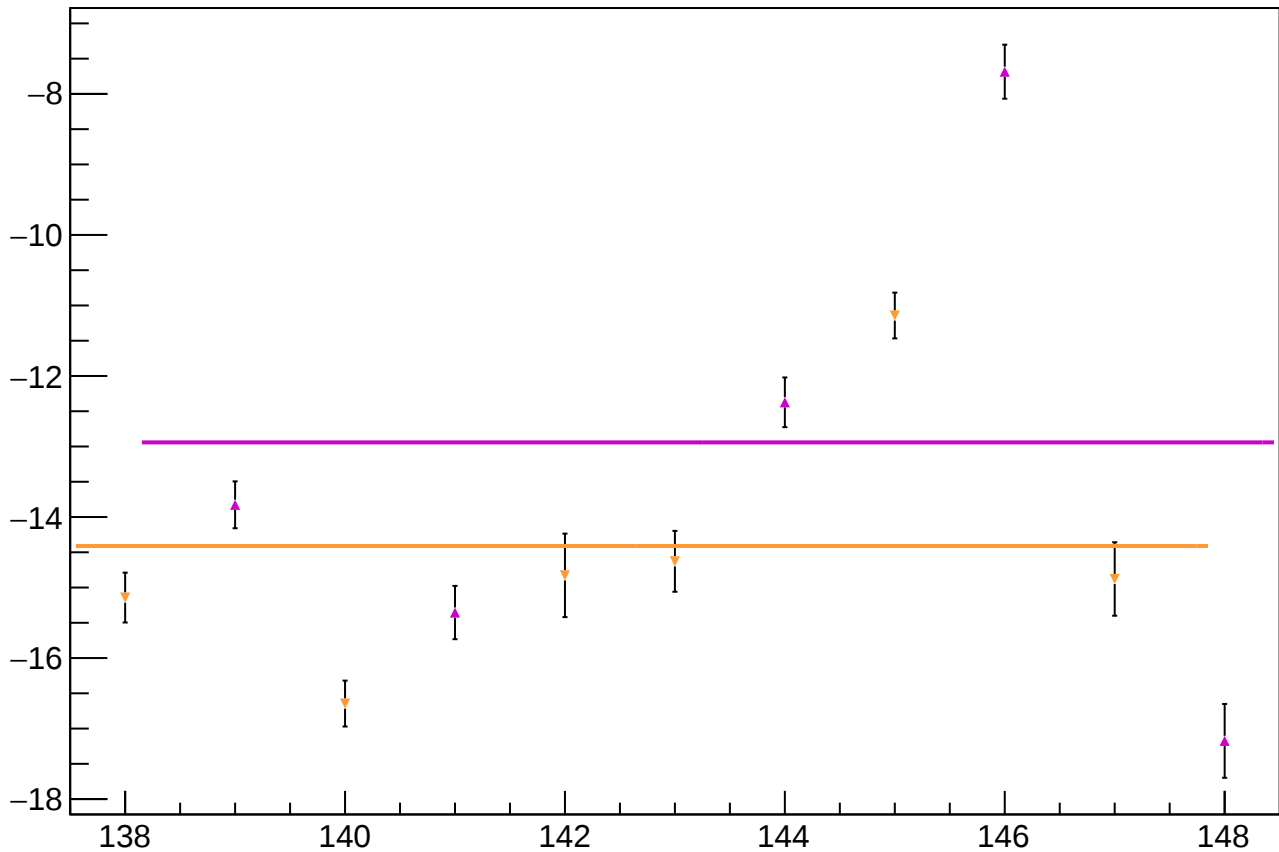
Left In:  $-0.300 \pm 0.018$   $\chi^2/\text{NDF}$ : 47.2/4

+ sign  $-0.334 \pm 0.014$   $\chi^2/\text{NDF}$ : 524.9/22

All:  $-0.373 \pm 0.010$   $\chi^2/\text{NDF}$ : 1233.8/45

- sign  $-0.412 \pm 0.014$   $\chi^2/\text{NDF}$ : 693.7/22

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: -14.411+/-0.160  $\chi^2/\text{NDF}$ :154.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

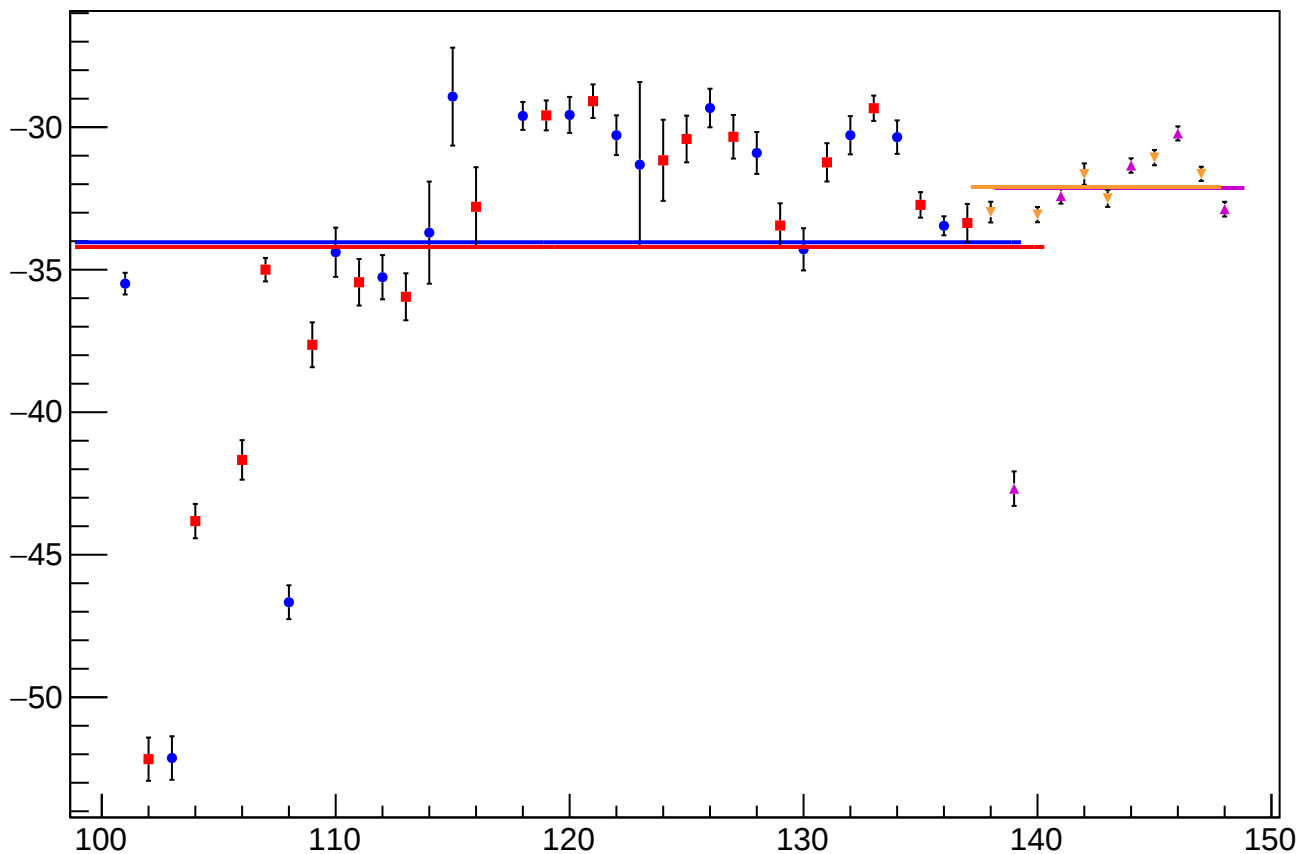
Left In: -12.942+/-0.170  $\chi^2/\text{NDF}$ :303.9/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.719+/-0.117  $\chi^2/\text{NDF}$ : 497.8/10

- 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:  $-32.097 \pm 0.120$   $\chi^2/\text{NDF}$ : 40.3/5

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

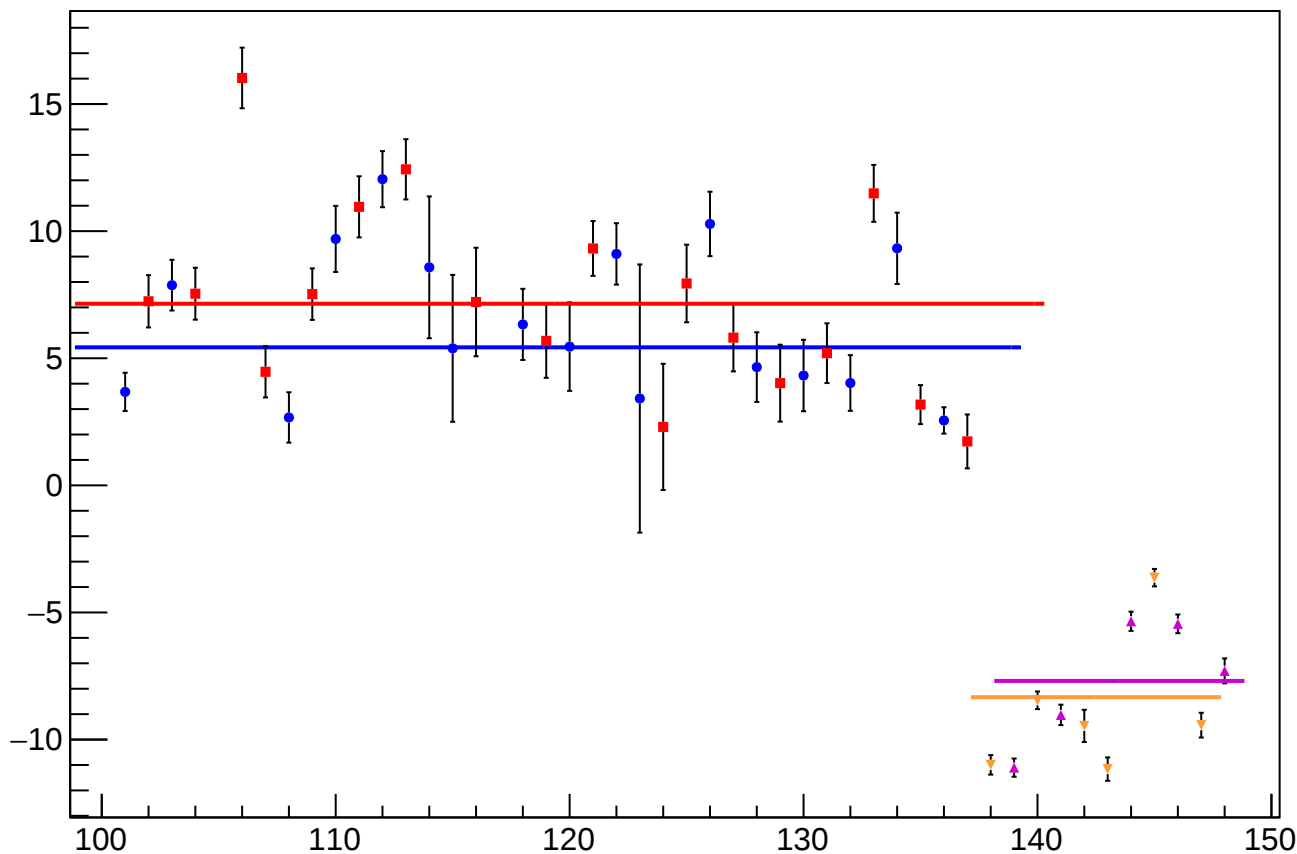
Left In:  $-32.133 \pm 0.126$   $\chi^2/\text{NDF}$ : 382.8/4

+ sign  $-32.847 \pm 0.094$   $\chi^2/\text{NDF}$ : 1484.7/22

All:  $-32.912 \pm 0.067$   $\chi^2/\text{NDF}$ : 3300.8/45

- sign  $-32.981 \pm 0.096$   $\chi^2/\text{NDF}$ : 1815.0/22

# 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:  $-8.332 \pm 0.169$   $\chi^2/\text{NDF}$ : 282.2/5

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

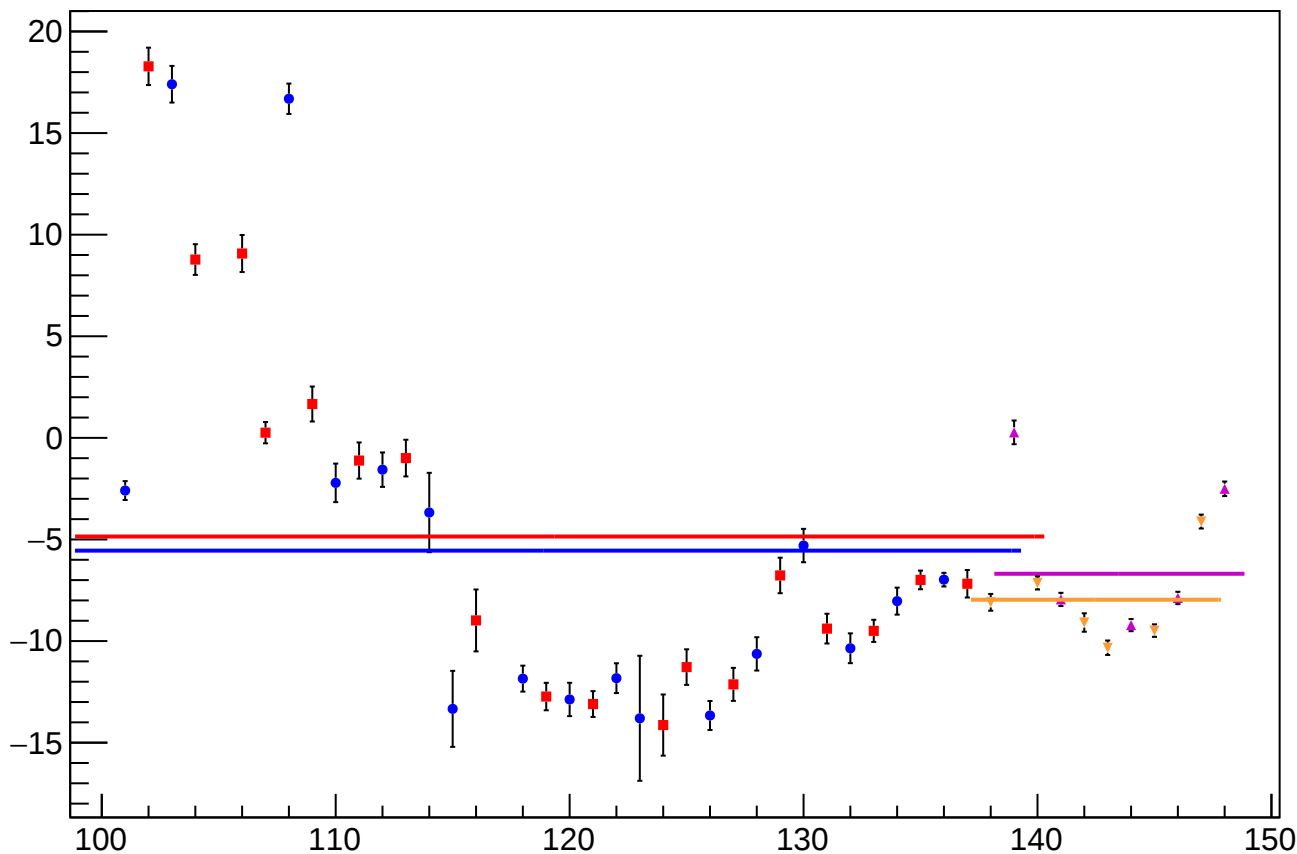
Left In:  $-7.694 \pm 0.175$   $\chi^2/\text{NDF}$ : 177.6/4

+ sign  $-4.459 \pm 0.143$   $\chi^2/\text{NDF}$ : 2283.0/22

All:  $-3.947 \pm 0.103$   $\chi^2/\text{NDF}$ : 4734.8/45

- sign  $-3.400 \pm 0.148$   $\chi^2/\text{NDF}$ : 2425.3/22

# 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:  $-7.965 \pm 0.145$   $\chi^2/\text{NDF}$ : 207.4/5

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

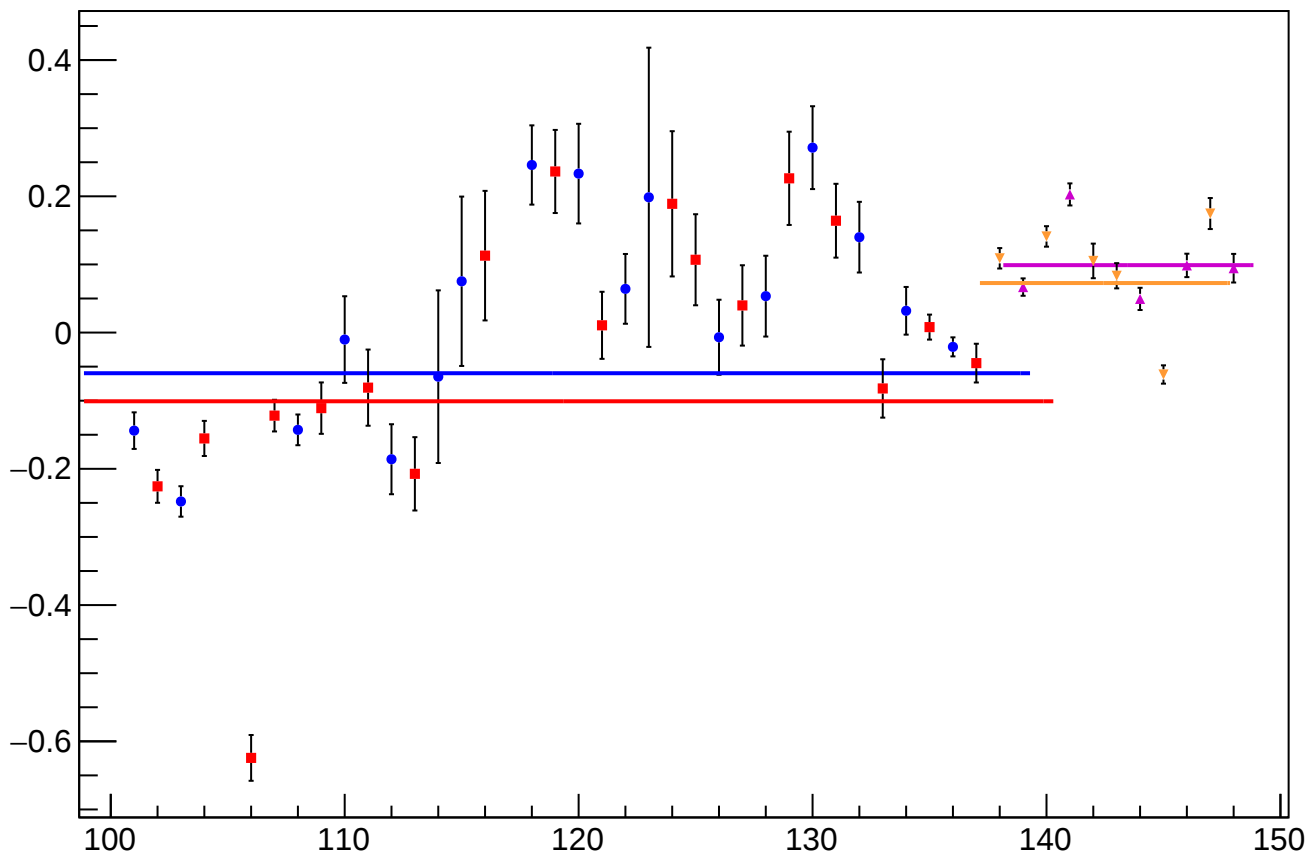
Left In:  $-6.688 \pm 0.154$   $\chi^2/\text{NDF}$ : 380.5/4

+ sign  $-6.944 \pm 0.111$   $\chi^2/\text{NDF}$ : 2450.4/22

All:  $-6.431 \pm 0.080$   $\chi^2/\text{NDF}$ : 4951.6/45

- sign  $-5.877 \pm 0.115$   $\chi^2/\text{NDF}$ : 2456.4/22

# 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:  $0.073 \pm 0.007$   $\chi^2/\text{NDF}$ : 148.3/5

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

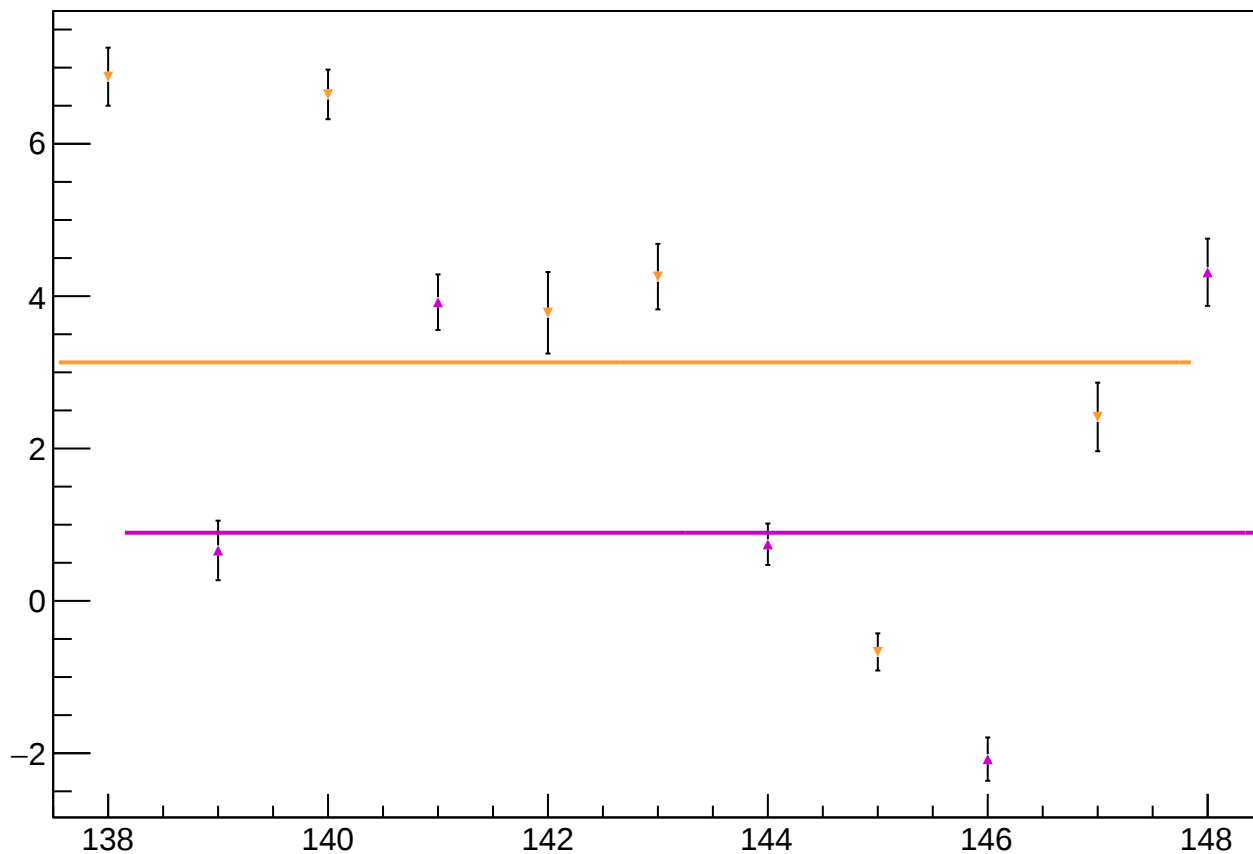
Left In:  $0.099 \pm 0.007$   $\chi^2/\text{NDF}$ : 56.8/4

+ sign  $0.019 \pm 0.005$   $\chi^2/\text{NDF}$ : 512.7/22

All:  $0.017 \pm 0.004$   $\chi^2/\text{NDF}$ : 1322.9/45

- sign  $0.015 \pm 0.005$   $\chi^2/\text{NDF}$ : 810.0/22

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.131 $\pm$ 0.146  $\chi^2$ /NDF:467.6/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

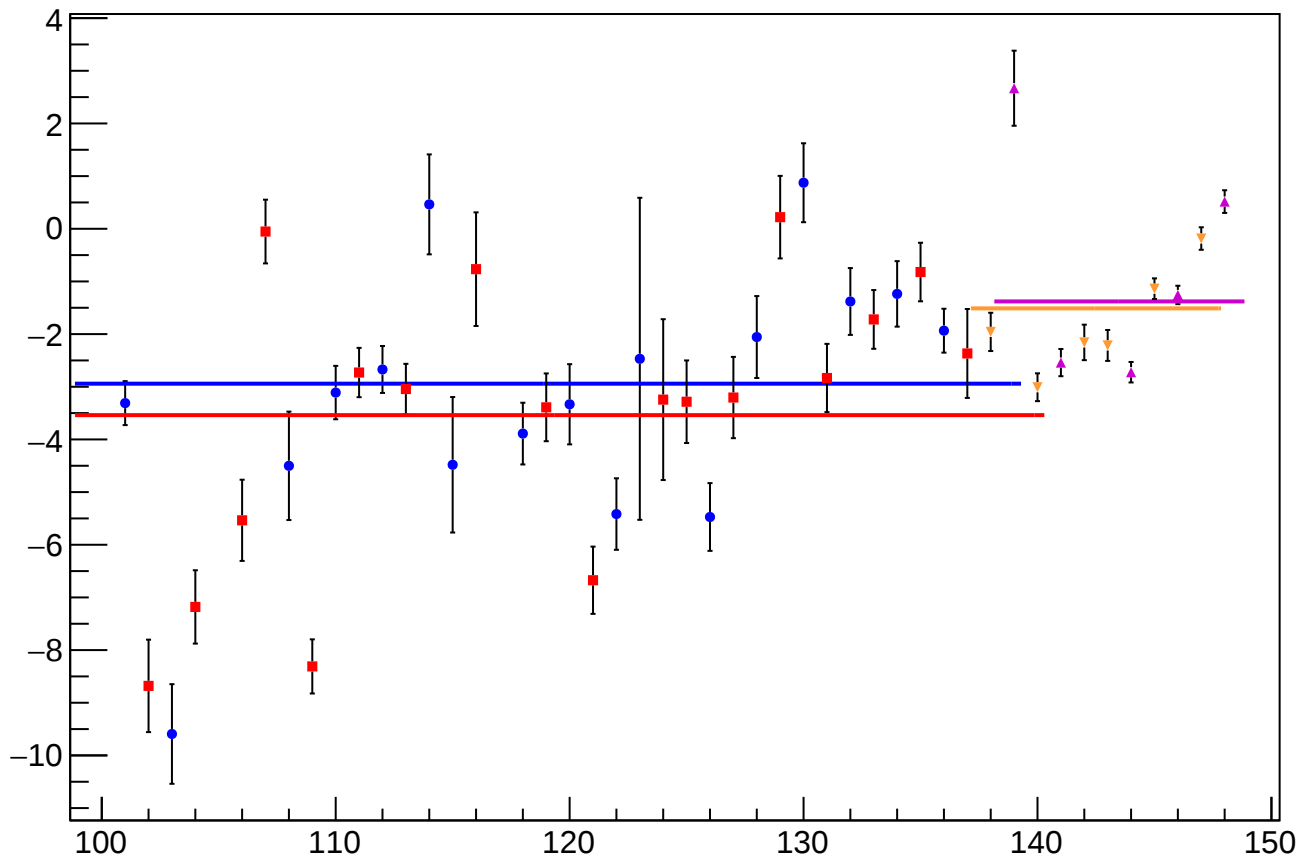
Left In: 0.895 $\pm$ 0.149  $\chi^2$ /NDF:238.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.036 $\pm$ 0.104  $\chi^2$ /NDF: 821.2/10

- 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:  $-1.511 \pm 0.105$   $\chi^2/\text{NDF}$ : 85.2/5

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

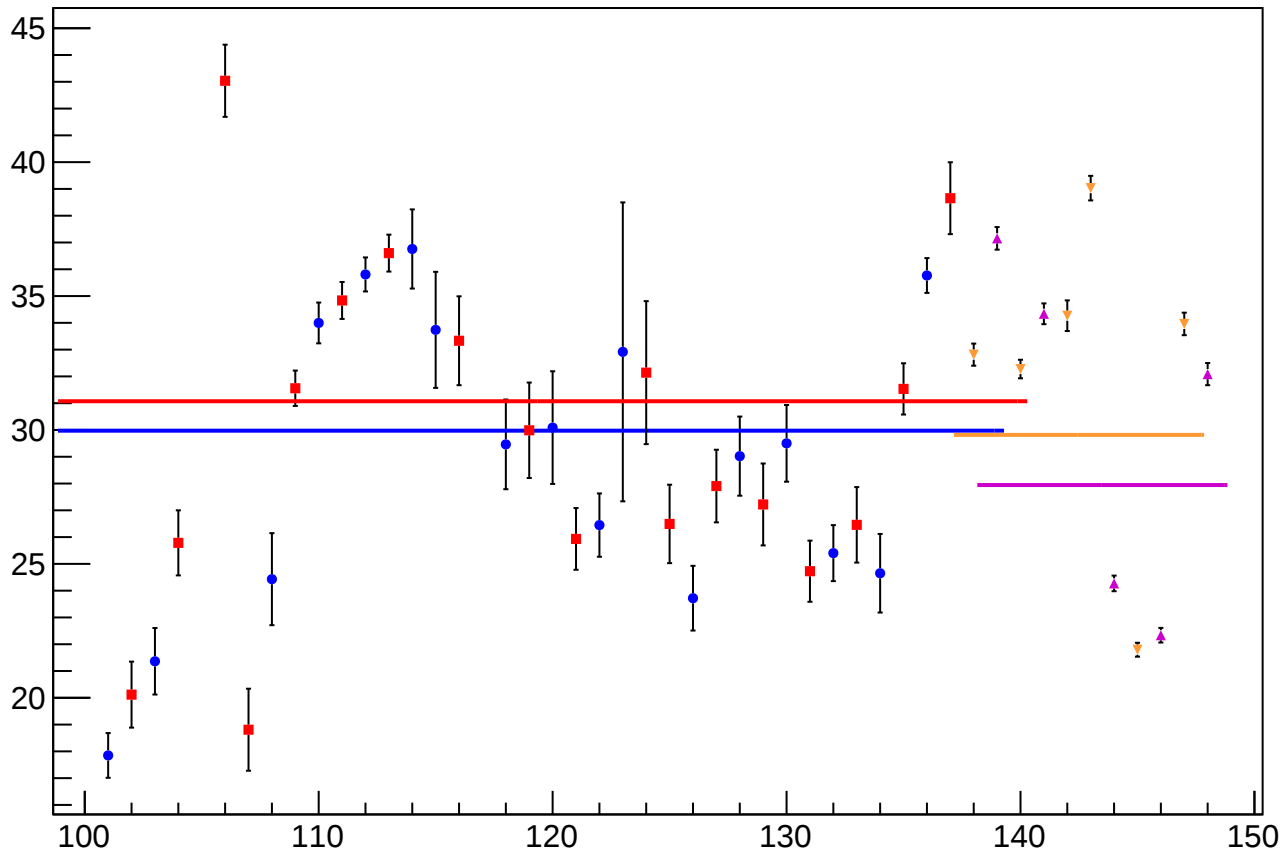
Left In:  $-1.379 \pm 0.101$   $\chi^2/\text{NDF}$ : 178.2/4

+ sign  $-1.966 \pm 0.087$   $\chi^2/\text{NDF}$ : 289.5/22

All:  $-1.997 \pm 0.061$   $\chi^2/\text{NDF}$ : 888.0/45

- sign  $-2.026 \pm 0.085$   $\chi^2/\text{NDF}$ : 598.3/22

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.974 $\pm$ 0.267  $\chi^2$ /NDF: 553.9/16

Left Out: 29.816 $\pm$ 0.153  $\chi^2$ /NDF:1618.7/5

Right Out: 31.073 $\pm$ 0.260  $\chi^2$ /NDF: 453.4/17

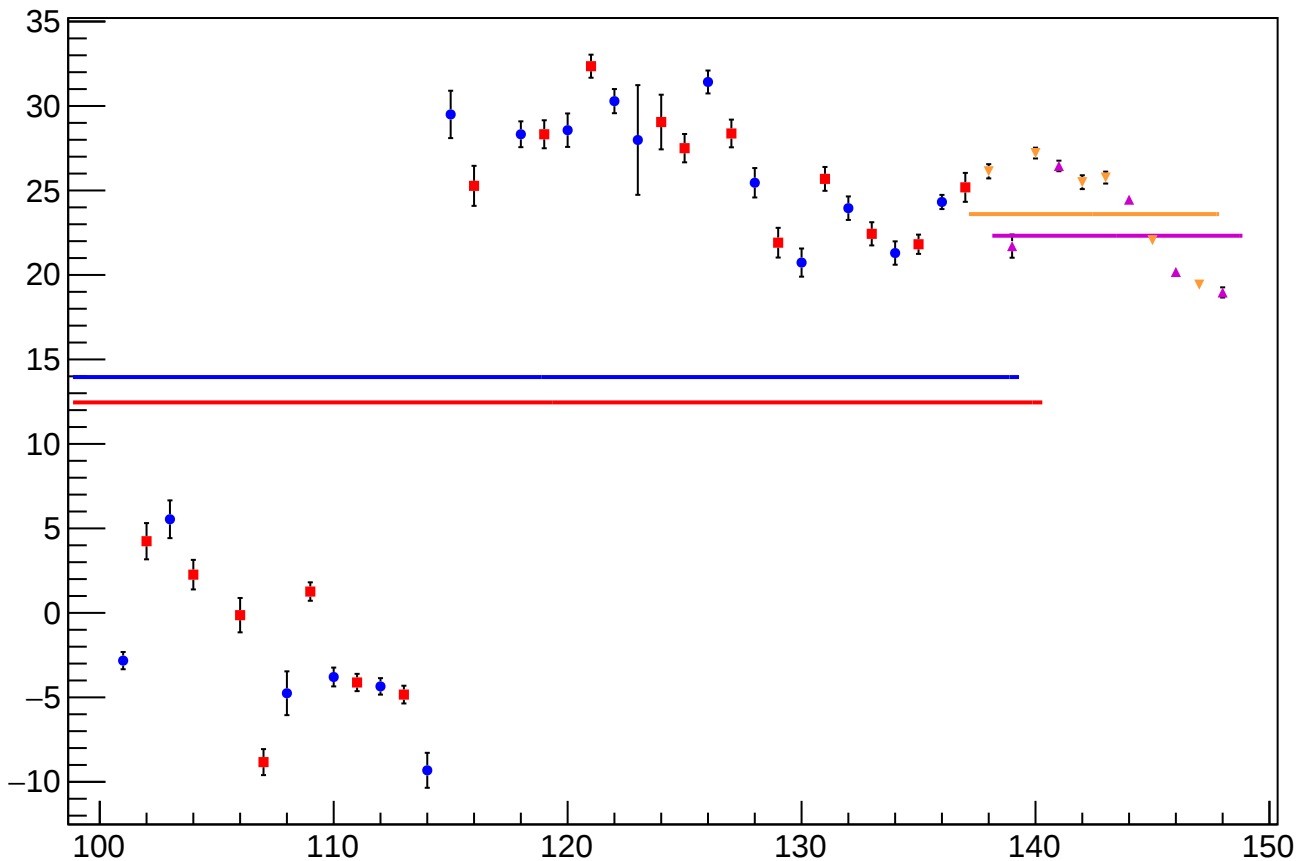
Left In: 27.944 $\pm$ 0.152  $\chi^2$ /NDF:1428.3/4

+ sign 29.855 $\pm$ 0.133  $\chi^2$ /NDF: 2172.9/22

All: 29.290 $\pm$ 0.093  $\chi^2$ /NDF: 4197.9/45

- sign 28.739 $\pm$ 0.131  $\chi^2$ /NDF: 1989.4/22

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: 23.602 $\pm$ 0.129  $\chi^2$ /NDF: 470.0/5

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

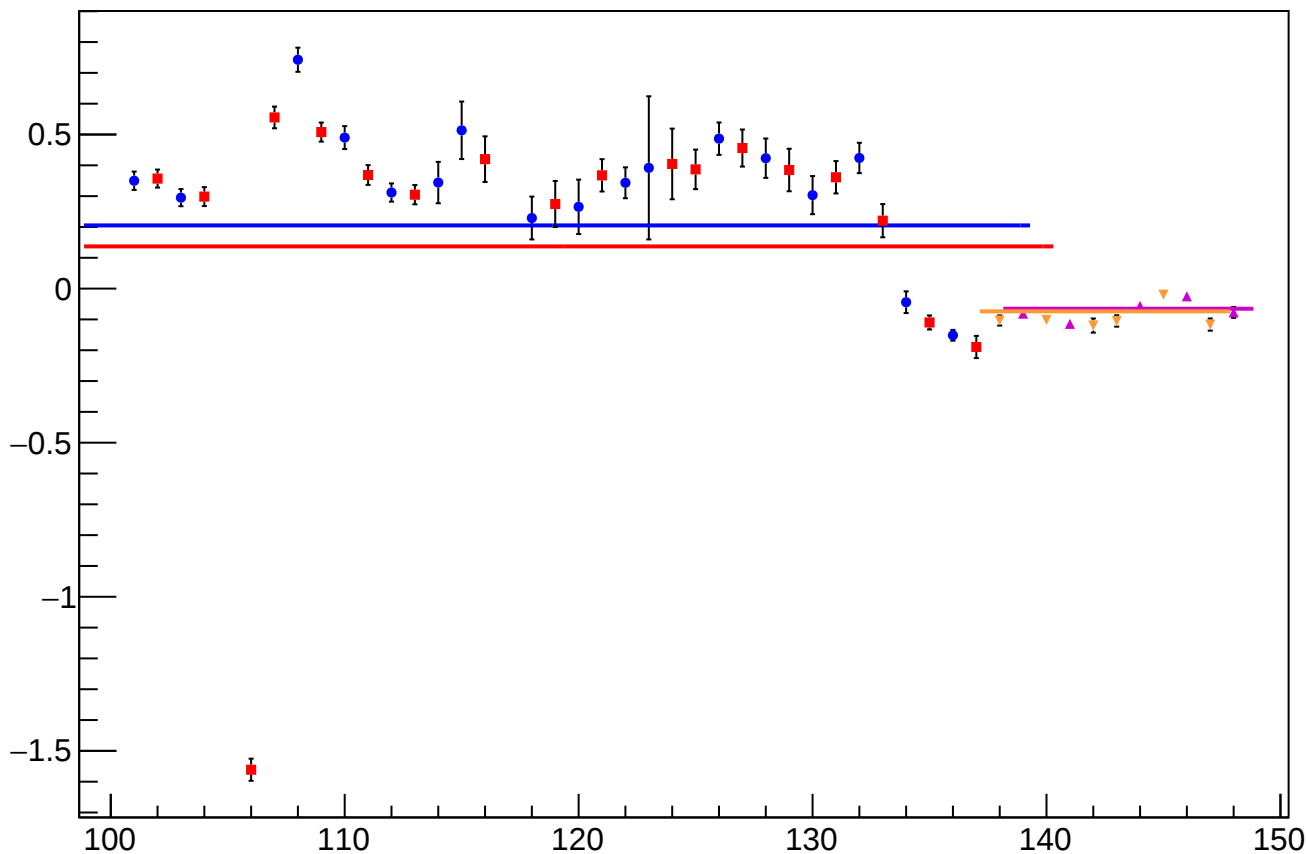
Left In: 22.321 $\pm$ 0.126  $\chi^2$ /NDF: 481.4/4

+ sign 20.149 $\pm$ 0.103  $\chi^2$ /NDF: 9830.1/22

All: 19.528 $\pm$ 0.073  $\chi^2$ /NDF: 19475.1/45

- sign 18.920 $\pm$ 0.102  $\chi^2$ /NDF: 9573.3/22

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:  $-0.074 \pm 0.006$   $\chi^2/\text{NDF}$ : 46.4/5

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}$ : 3007.9/17

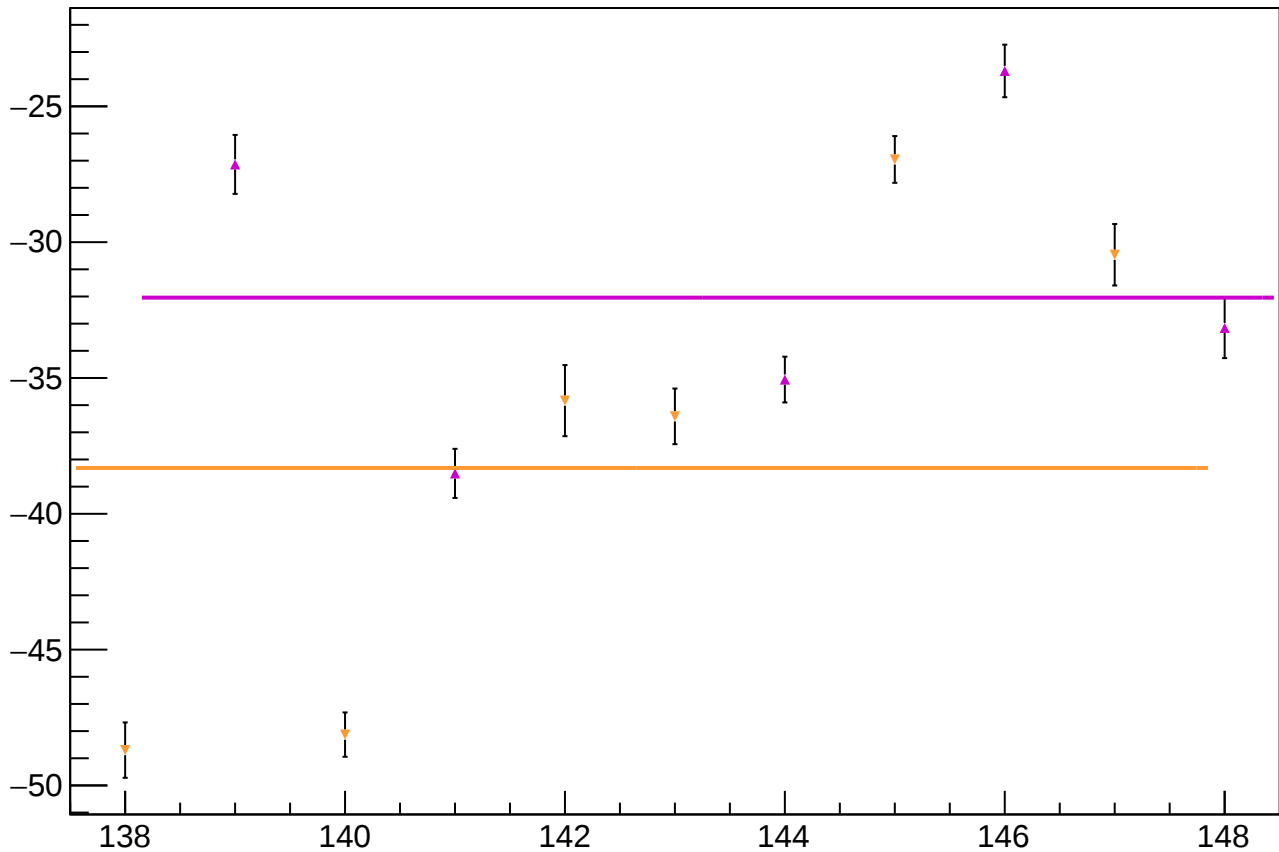
Left In:  $-0.065 \pm 0.006$   $\chi^2/\text{NDF}$ : 22.0/4

+ sign  $0.013 \pm 0.005$   $\chi^2/\text{NDF}$ : 1502.4/22

All:  $0.007 \pm 0.004$   $\chi^2/\text{NDF}$ : 4859.3/45

- sign  $0.001 \pm 0.005$   $\chi^2/\text{NDF}$ : 3354.1/22

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -38.312+/-0.404  $\chi^2/\text{NDF}$ : 477.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

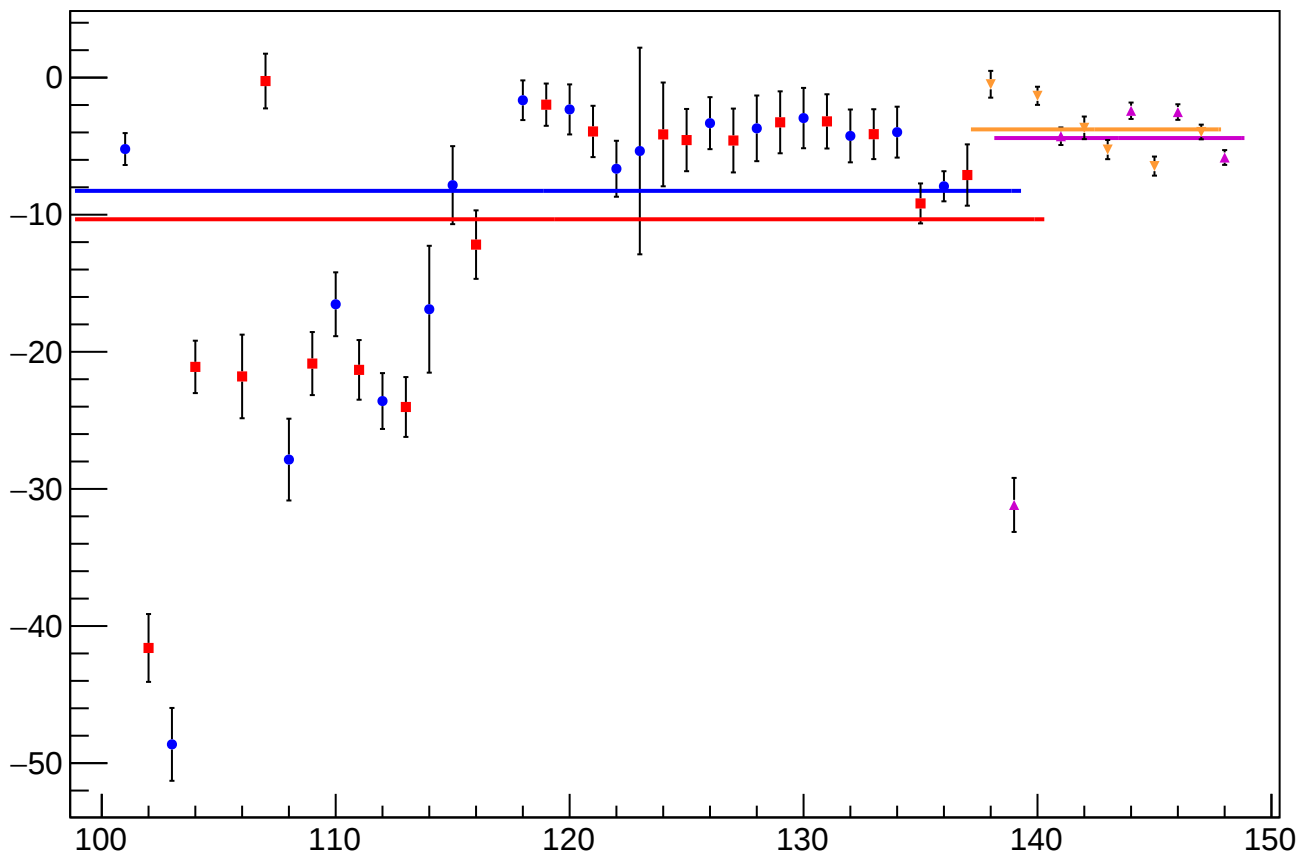
Left In: -32.042+/-0.432  $\chi^2/\text{NDF}$ : 159.9/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.386+/-0.295  $\chi^2/\text{NDF}$ : 750.1/10

- 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:  $-3.777 \pm 0.284$   $\chi^2/\text{NDF}$ : 44.4/5

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}$ : 410.9/17

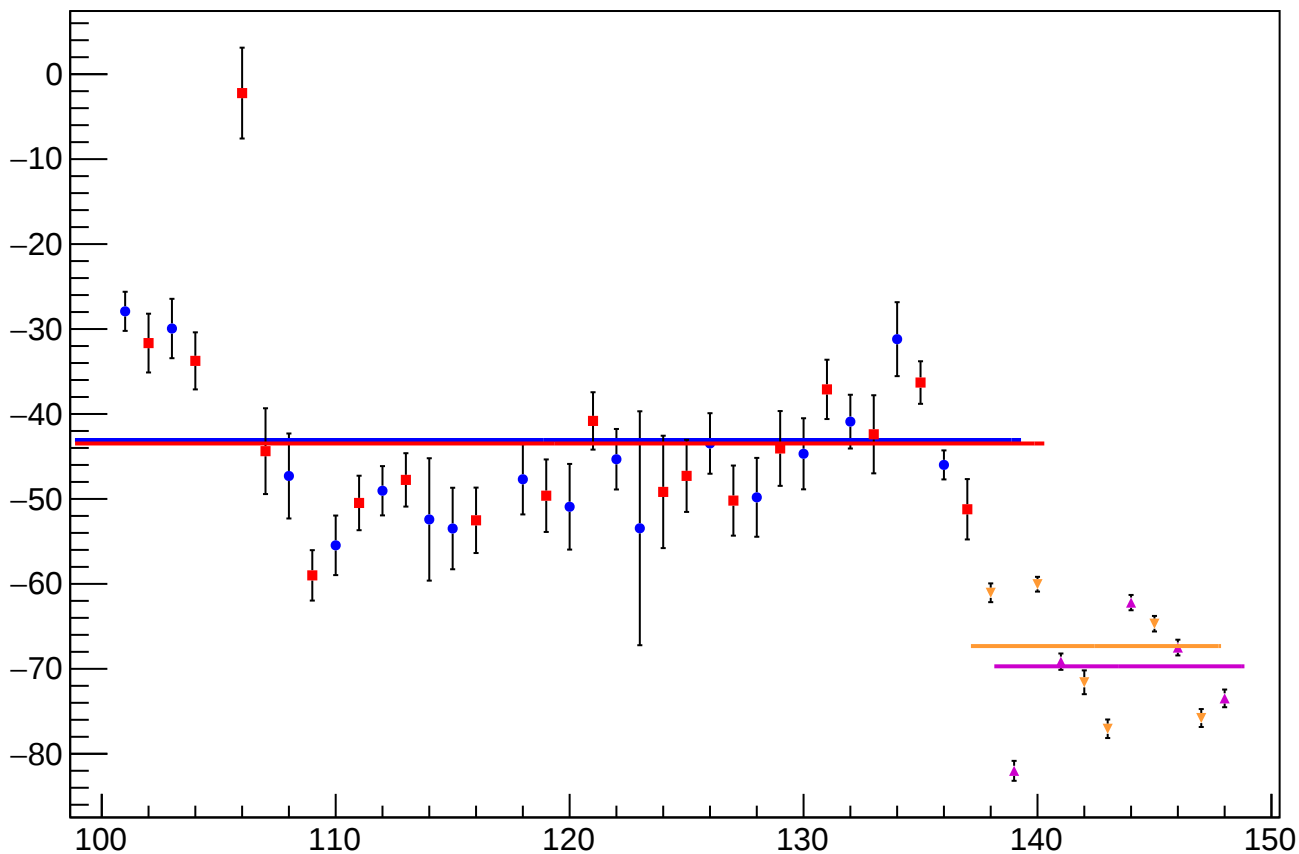
Left In:  $-4.409 \pm 0.288$   $\chi^2/\text{NDF}$ : 213.5/4

+ sign  $-5.005 \pm 0.242$   $\chi^2/\text{NDF}$ : 524.5/22

All:  $-5.454 \pm 0.173$   $\chi^2/\text{NDF}$ : 1264.3/45

- sign  $-5.929 \pm 0.249$   $\chi^2/\text{NDF}$ : 732.7/22

# 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:  $-67.321 \pm 0.423$   $\chi^2/\text{NDF}: 263.8/5$

Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$

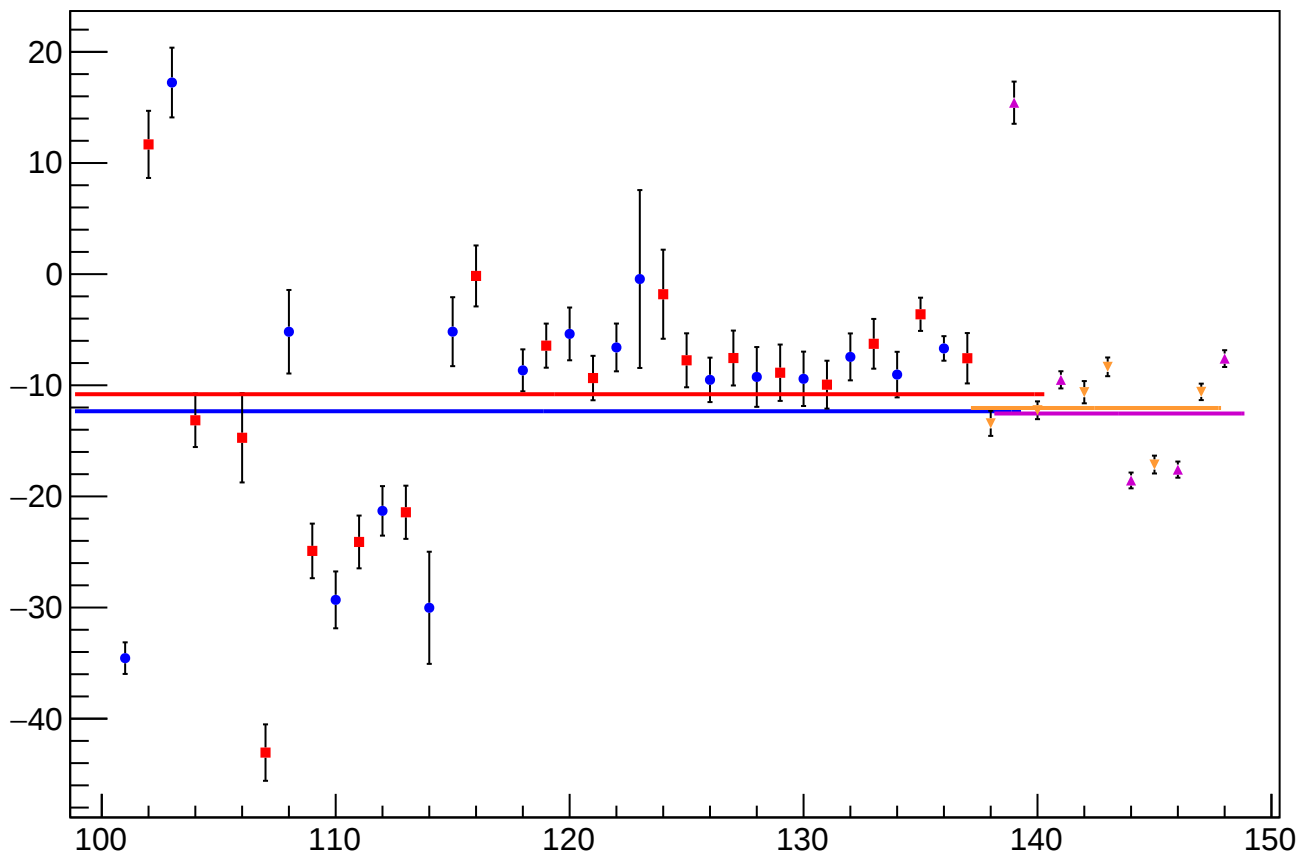
Left In:  $-69.705 \pm 0.442$   $\chi^2/\text{NDF}: 198.4/4$

+ sign  $-62.366 \pm 0.378$   $\chi^2/\text{NDF}: 1033.8/22$

All:  $-63.303 \pm 0.272$   $\chi^2/\text{NDF}: 2112.0/45$

- sign  $-64.321 \pm 0.394$   $\chi^2/\text{NDF}: 1065.3/22$

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:  $-12.044 \pm 0.351$   $\chi^2/\text{NDF}$ : 67.0/5

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

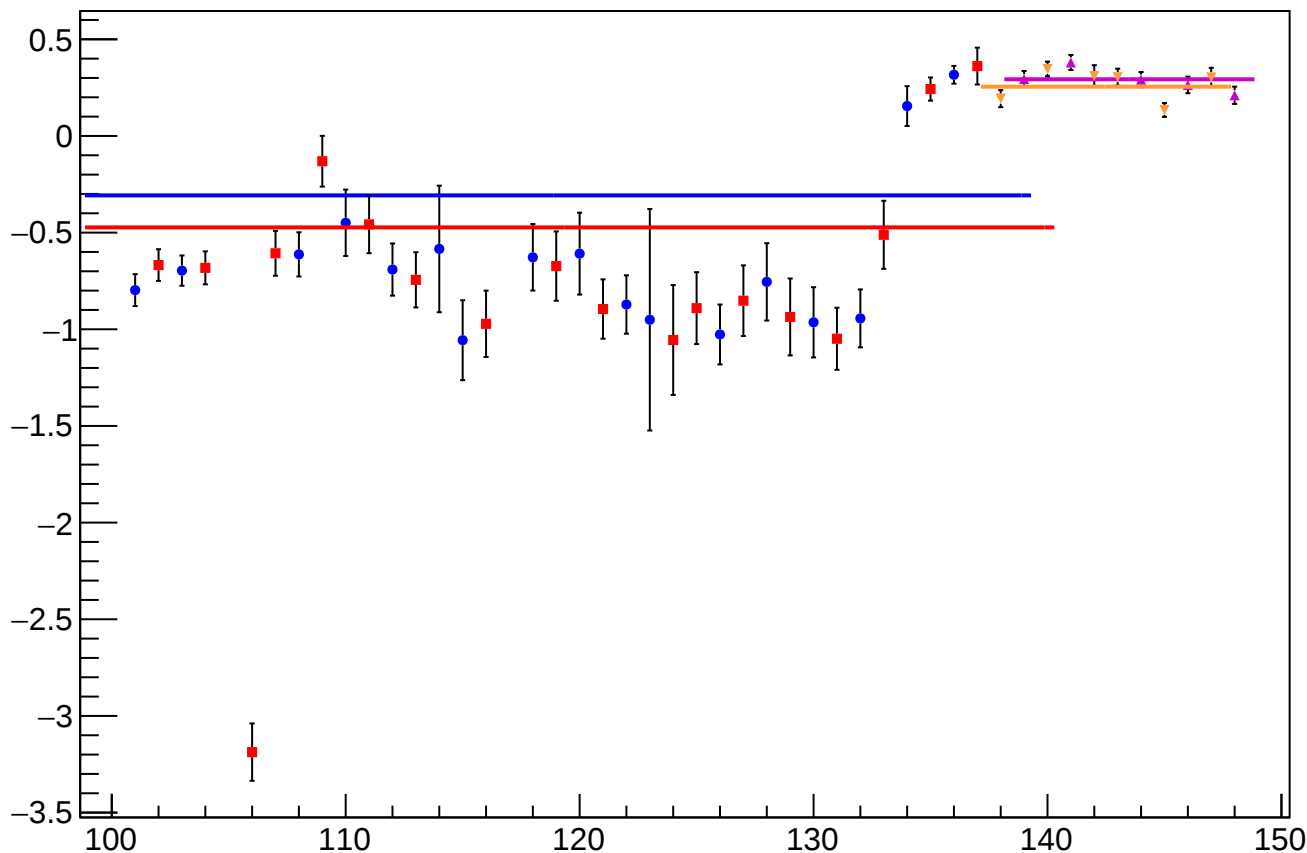
Left In:  $-12.541 \pm 0.363$   $\chi^2/\text{NDF}$ : 395.3/4

+ sign  $-12.135 \pm 0.291$   $\chi^2/\text{NDF}$ : 542.3/22

All:  $-12.079 \pm 0.210$   $\chi^2/\text{NDF}$ : 1306.0/45

- sign  $-12.018 \pm 0.304$   $\chi^2/\text{NDF}$ : 763.6/22

# 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:  $0.255 \pm 0.018$   $\chi^2/\text{NDF}$ : 22.2/5

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

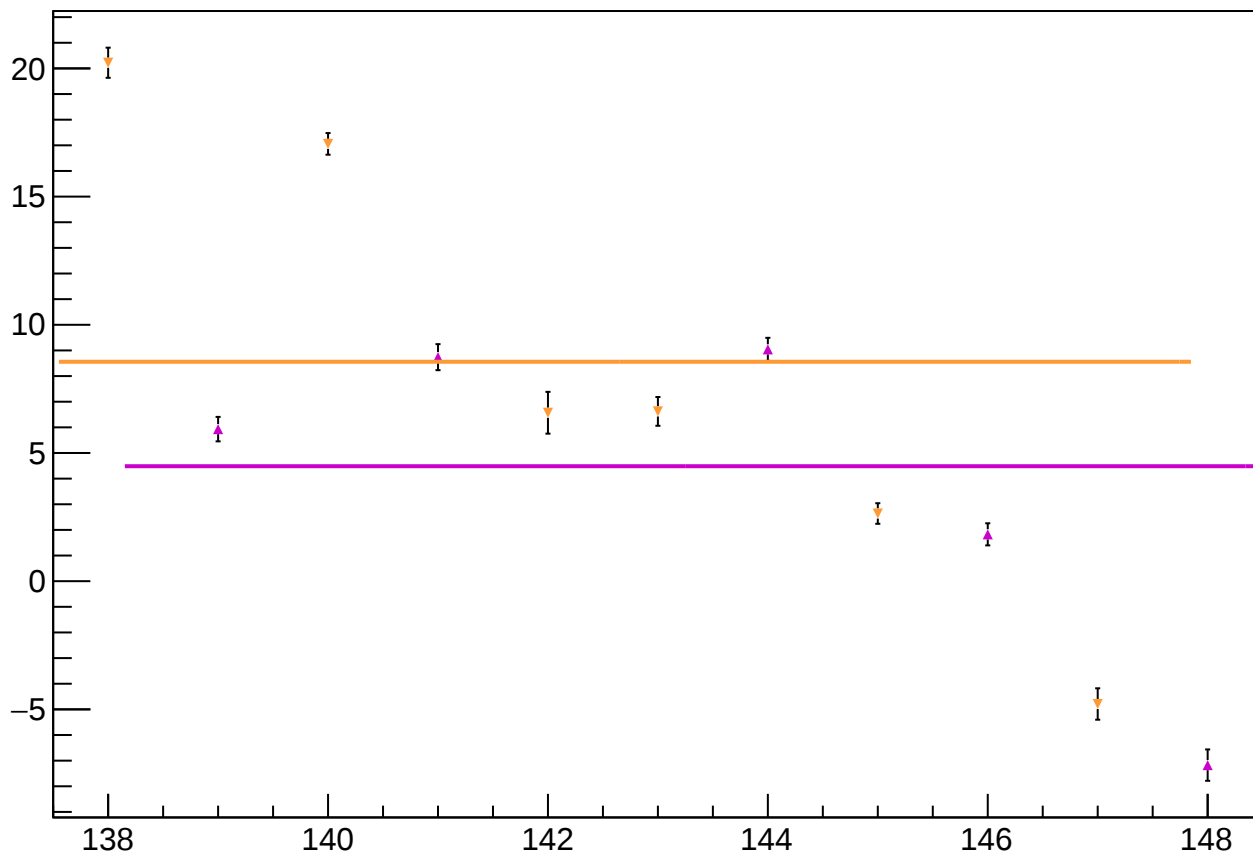
Left In:  $0.293 \pm 0.018$   $\chi^2/\text{NDF}$ : 8.9/4

+ sign  $0.092 \pm 0.015$   $\chi^2/\text{NDF}$ : 690.5/22

All:  $0.080 \pm 0.011$   $\chi^2/\text{NDF}$ : 1833.0/45

- sign  $0.068 \pm 0.016$   $\chi^2/\text{NDF}$ : 1141.3/22

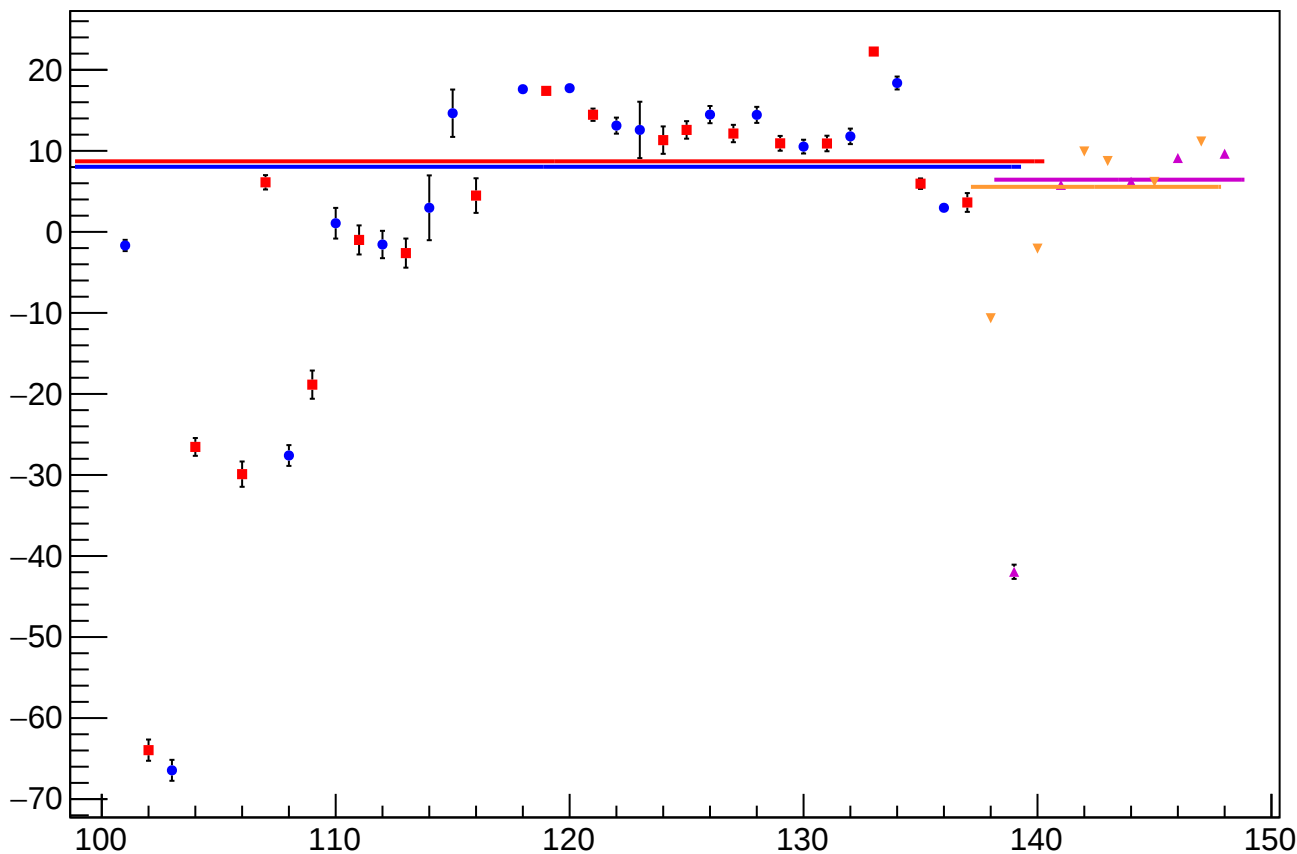
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.558 $\pm$ 0.213  $\chi^2$ /NDF:1509.4/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.484 $\pm$ 0.217  $\chi^2$ /NDF:583.1/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 6.558 $\pm$ 0.152  $\chi^2$ /NDF: 2272.3/10  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $8.035 \pm 0.215$   $\chi^2/\text{NDF}$ : 5370.3/16

Left Out:  $5.558 \pm 0.154$   $\chi^2/\text{NDF}$ : 1718.8/5

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}$ : 6290.2/17

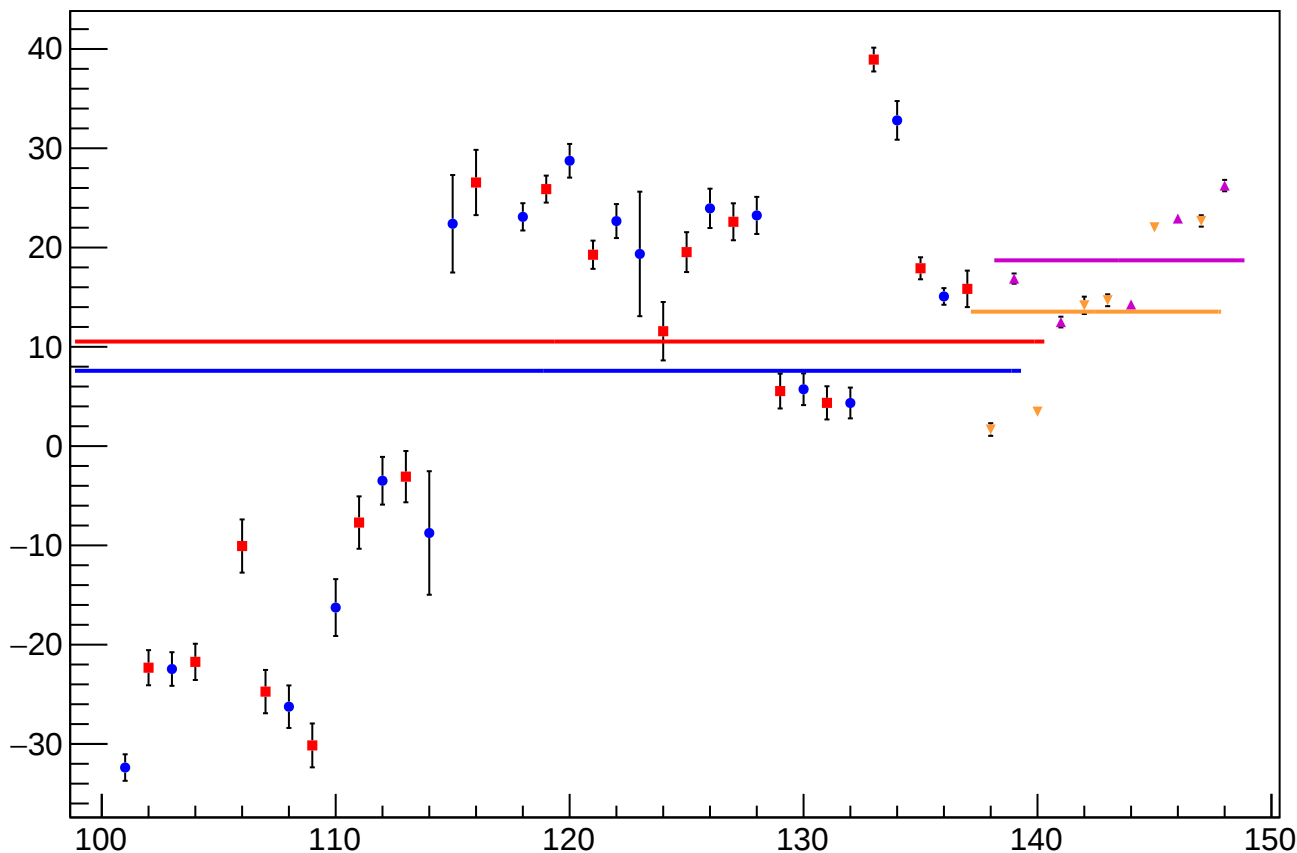
Left In:  $6.443 \pm 0.153$   $\chi^2/\text{NDF}$ : 3235.8/4

+ sign  $6.396 \pm 0.125$   $\chi^2/\text{NDF}$ : 7176.6/22

All:  $6.808 \pm 0.088$   $\chi^2/\text{NDF}$ : 16798.5/45

- sign  $7.216 \pm 0.125$   $\chi^2/\text{NDF}$ : 9600.3/22

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:  $13.543 \pm 0.223$   $\chi^2/\text{NDF}$ : 1508.0/5

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}$ : 2279.5/17

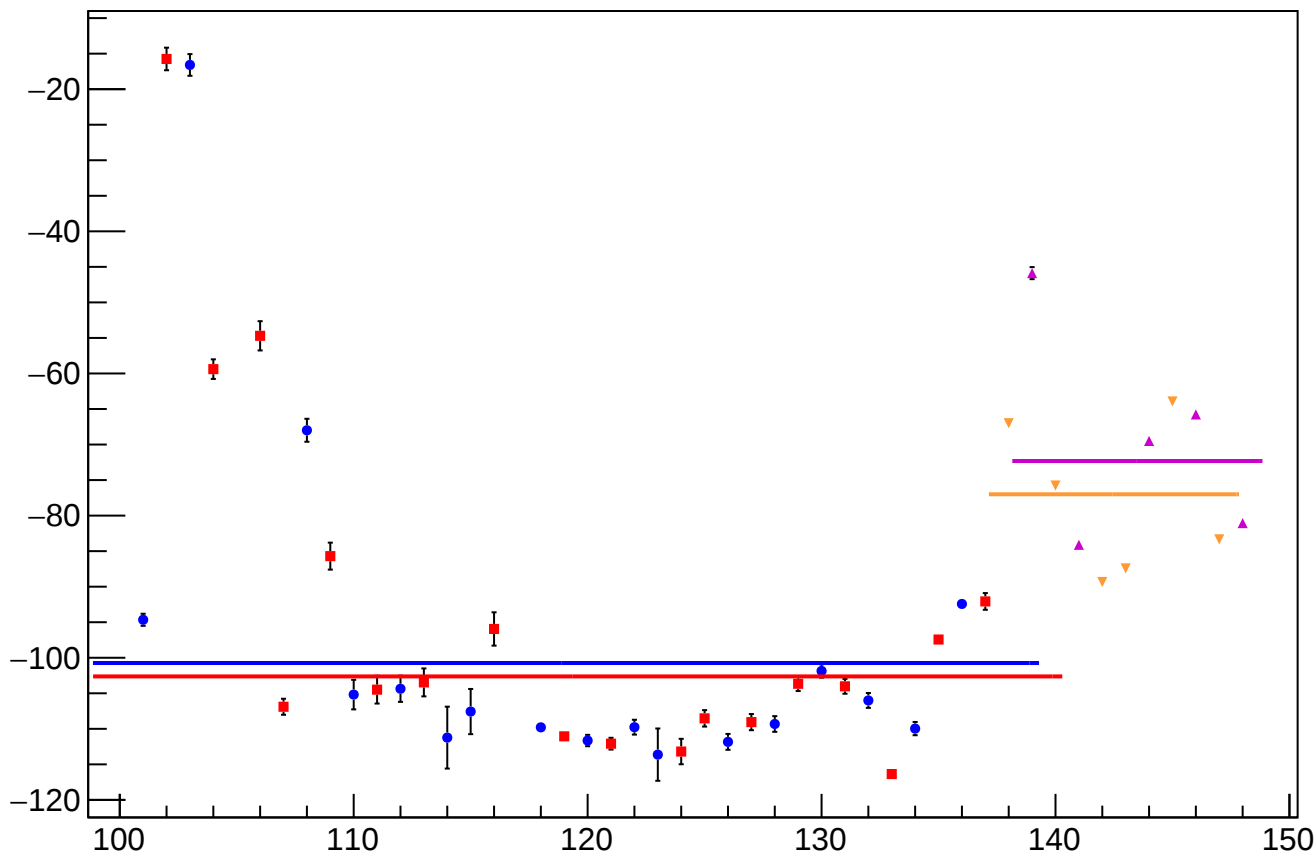
Left In:  $18.711 \pm 0.222$   $\chi^2/\text{NDF}$ : 506.2/4

+ sign  $12.214 \pm 0.197$   $\chi^2/\text{NDF}$ : 3989.9/22

All:  $14.574 \pm 0.139$   $\chi^2/\text{NDF}$ : 7362.0/45

- sign  $16.914 \pm 0.196$   $\chi^2/\text{NDF}$ : 3085.1/22

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -100.736+/-0.248  $\chi^2/\text{NDF}$ : 4520.6/16

Left Out: -77.000+/-0.189  $\chi^2/\text{NDF}$ : 2556.1/5

Right Out: -102.625+/-0.246  $\chi^2/\text{NDF}$ : 5716.3/17

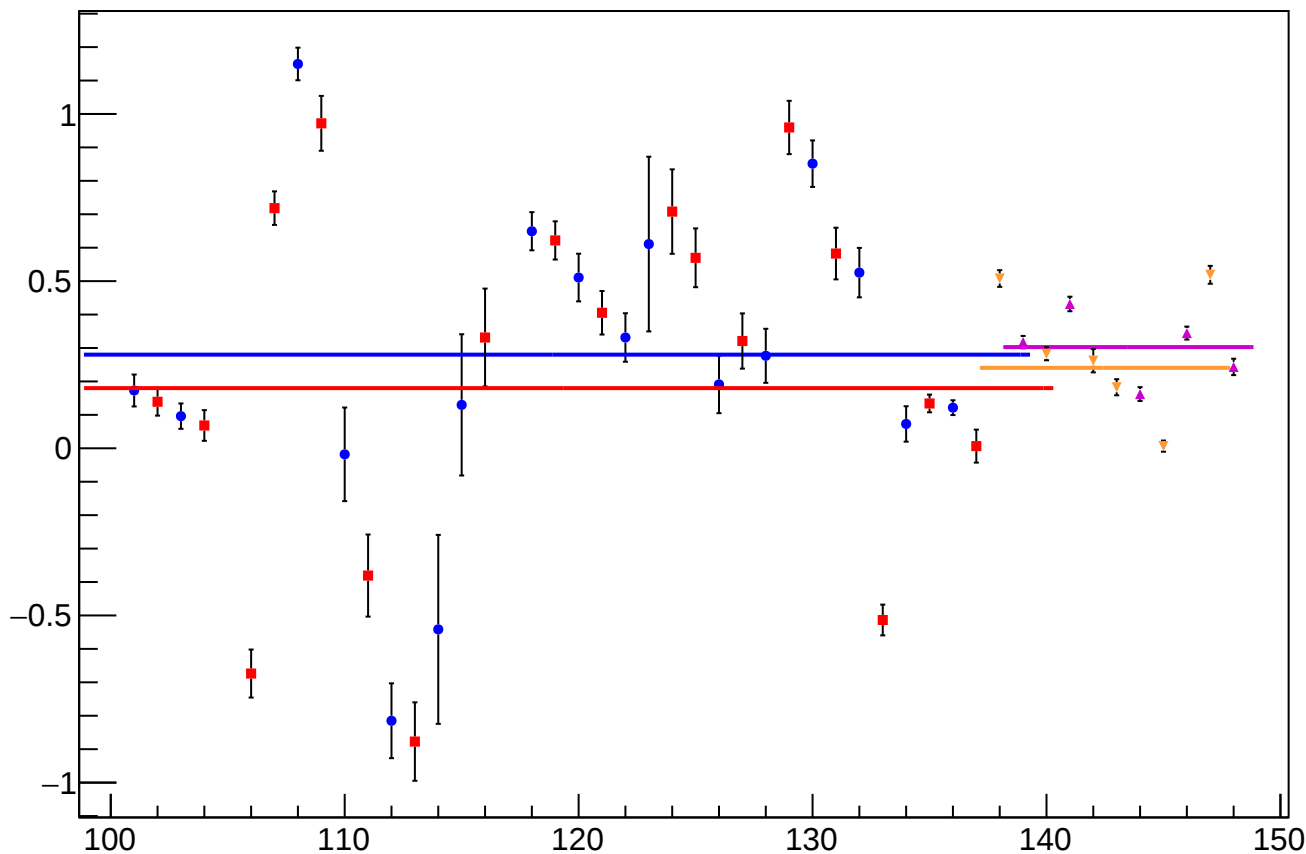
Left In: -72.317+/-0.190  $\chi^2/\text{NDF}$ : 2556.9/4

+ sign -85.678+/-0.150  $\chi^2/\text{NDF}$ : 12873.5/22

All: -84.656+/-0.106  $\chi^2/\text{NDF}$ : 30744.2/45

- sign -83.630+/-0.150  $\chi^2/\text{NDF}$ : 17777.8/22

# 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:  $0.241 \pm 0.009$   $\chi^2/\text{NDF}: 430.5/5$

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}: 937.1/17$

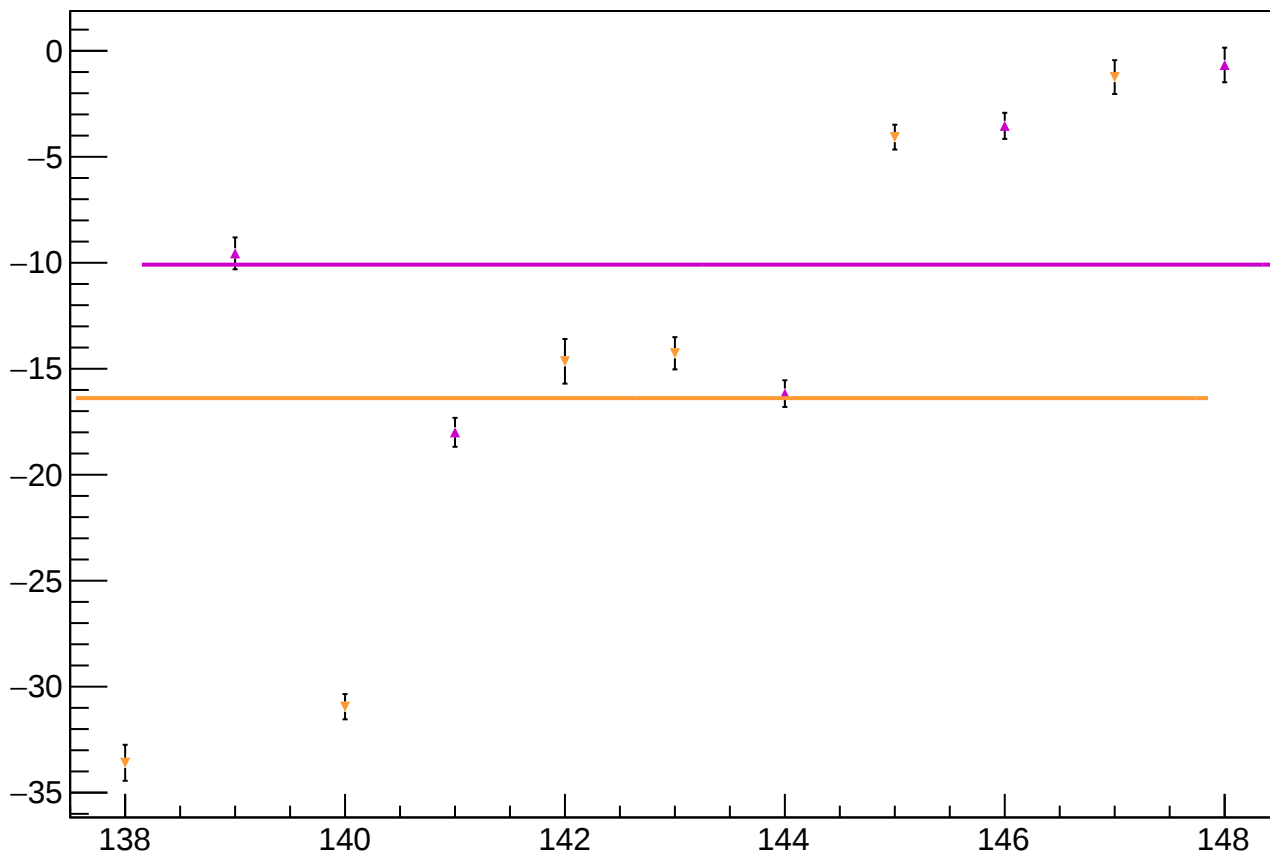
Left In:  $0.303 \pm 0.009$   $\chi^2/\text{NDF}: 92.4/4$

+ sign  $0.253 \pm 0.008$   $\chi^2/\text{NDF}: 1092.7/22$

All:  $0.258 \pm 0.005$   $\chi^2/\text{NDF}: 2179.4/45$

- sign  $0.263 \pm 0.008$   $\chi^2/\text{NDF}: 1085.8/22$

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: -16.385+/-0.297  $\chi^2/\text{NDF}$ : 1819.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

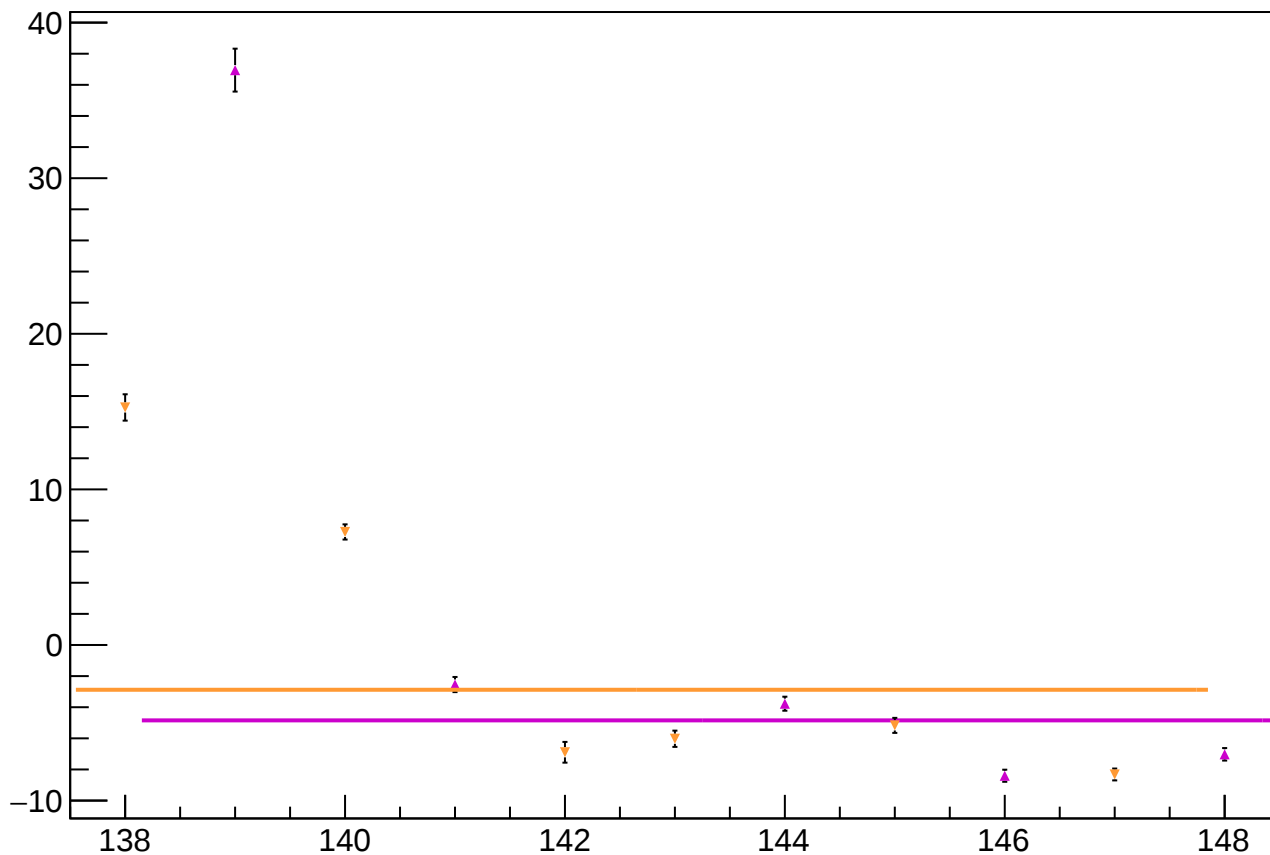
Left In: -10.088+/-0.307  $\chi^2/\text{NDF}$ : 474.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.342+/-0.214  $\chi^2/\text{NDF}$ : 2510.4/10

- 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: -2.878+/-0.210  $\chi^2/\text{NDF}$ : 1188.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

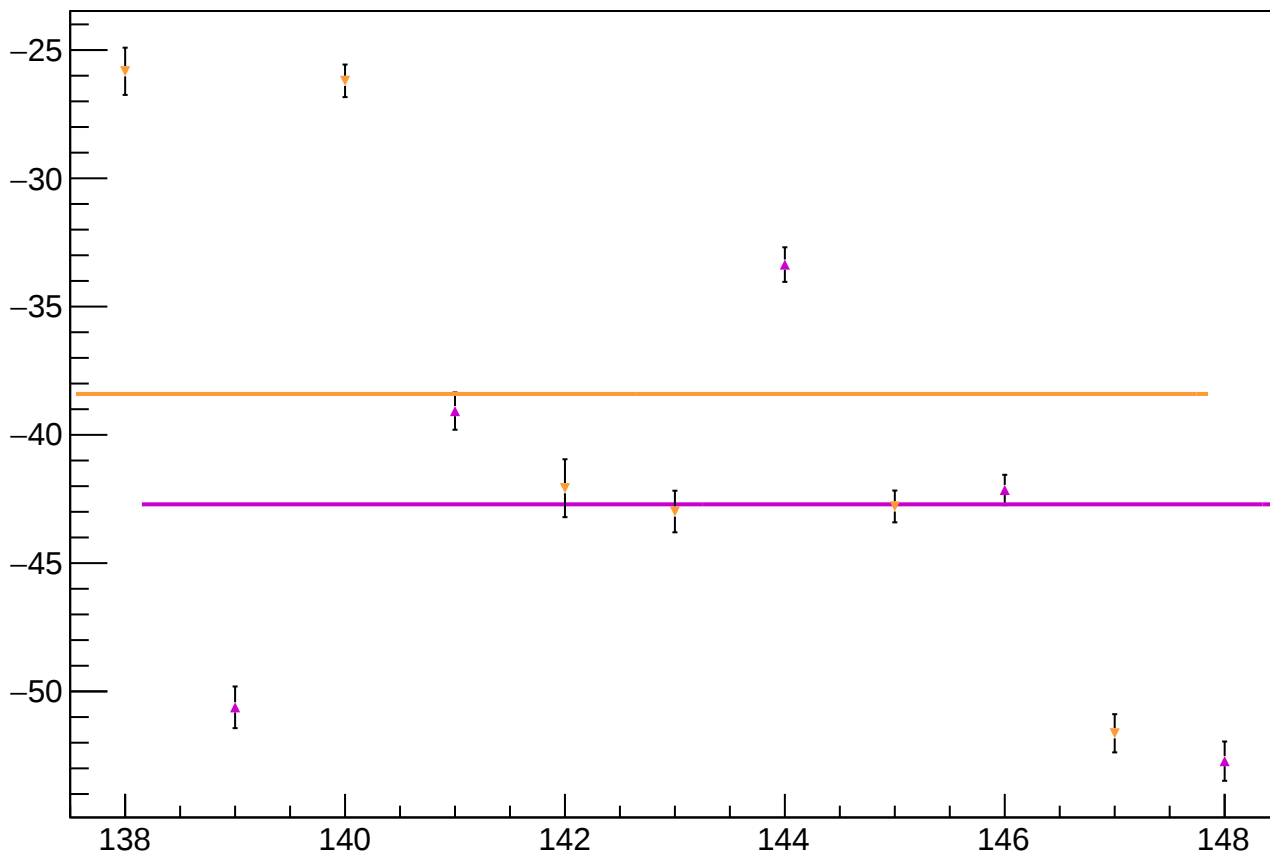
Left In: -4.845+/-0.211  $\chi^2/\text{NDF}$ : 1059.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.858+/-0.149  $\chi^2/\text{NDF}$ : 2291.0/10

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -38.406 $\pm$ 0.311  $\chi^2$ /NDF: 964.3/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

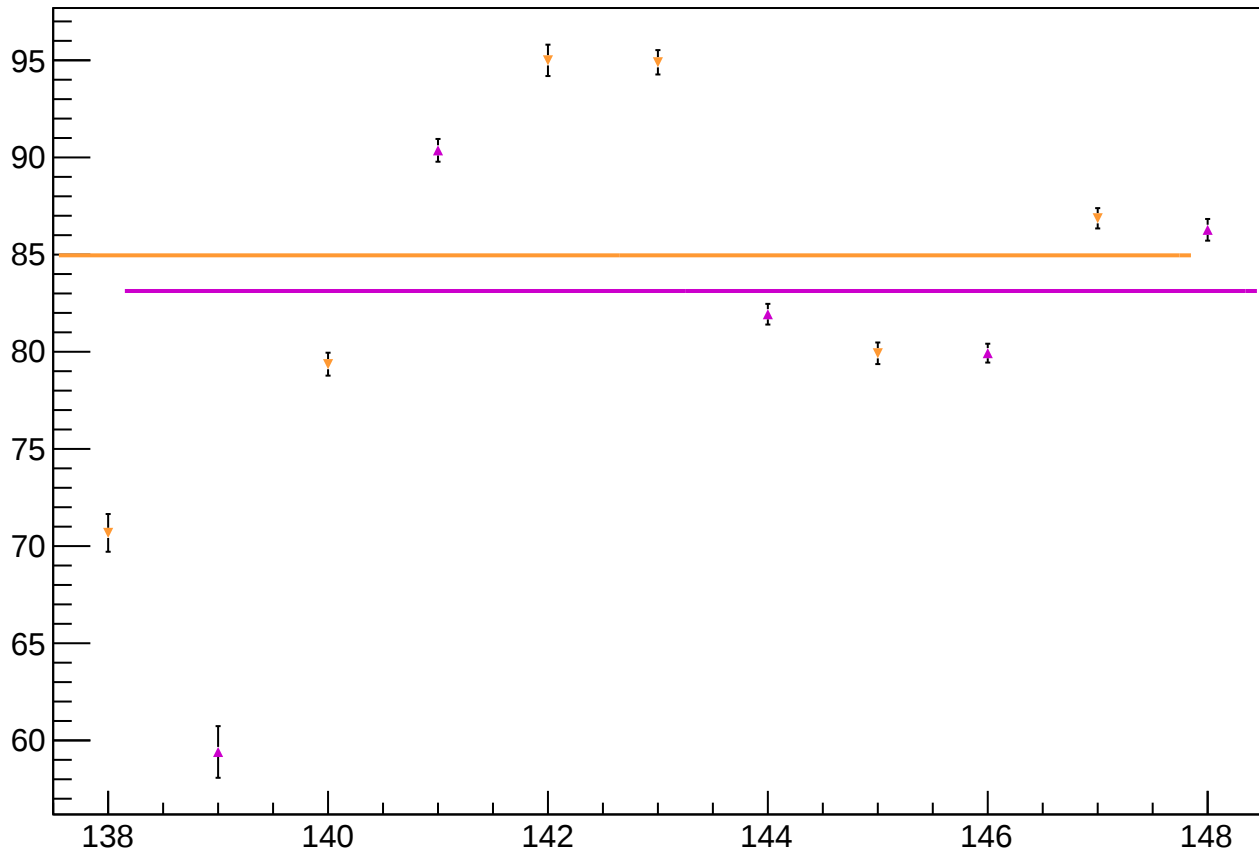
Left In: -42.709 $\pm$ 0.313  $\chi^2$ /NDF: 484.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.537 $\pm$ 0.221  $\chi^2$ /NDF: 1543.4/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 84.963+/-0.259  $\chi^2/\text{NDF}$ : 807.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

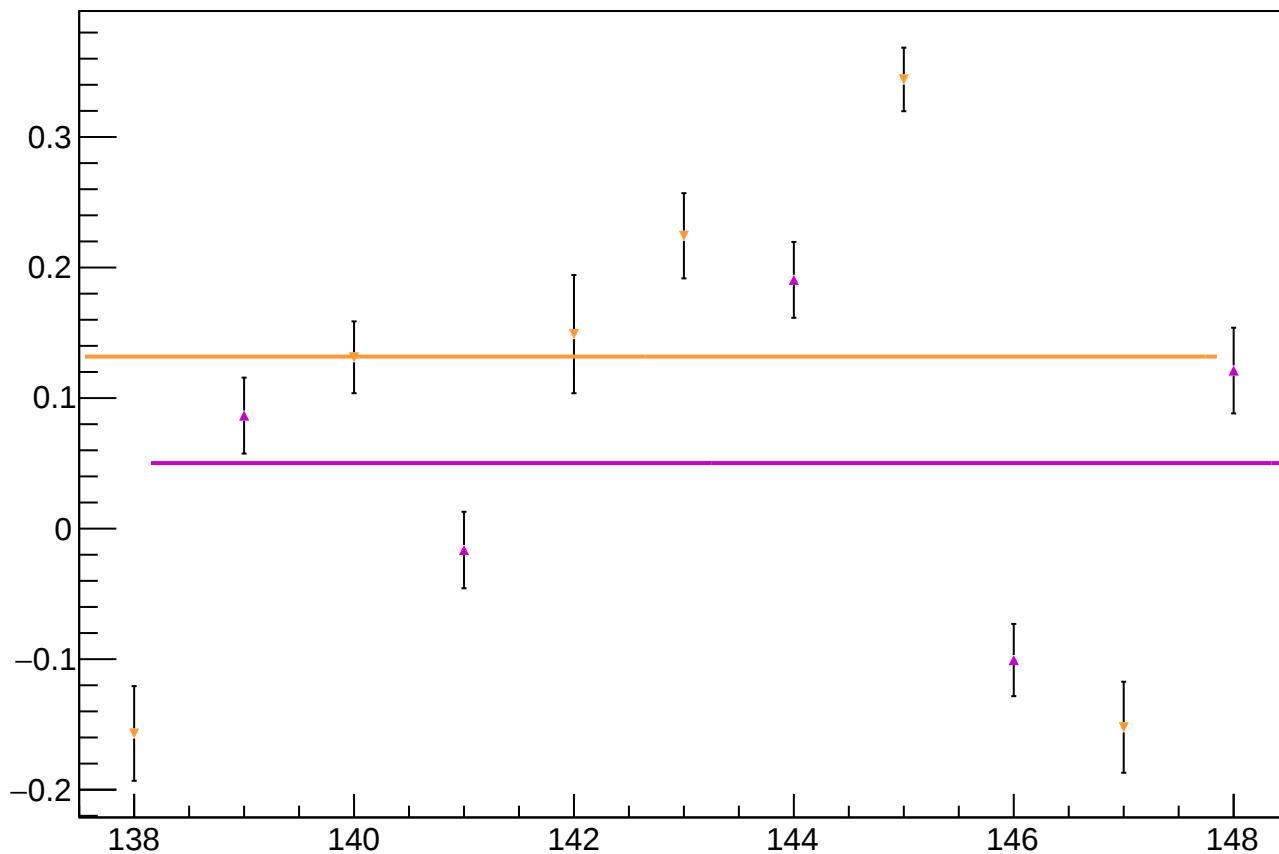
Left In: 83.127+/-0.263  $\chi^2/\text{NDF}$ : 551.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 84.059+/-0.184  $\chi^2/\text{NDF}$ : 1383.7/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.132 $\pm$ 0.013  $\chi^2$ /NDF:213.9/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

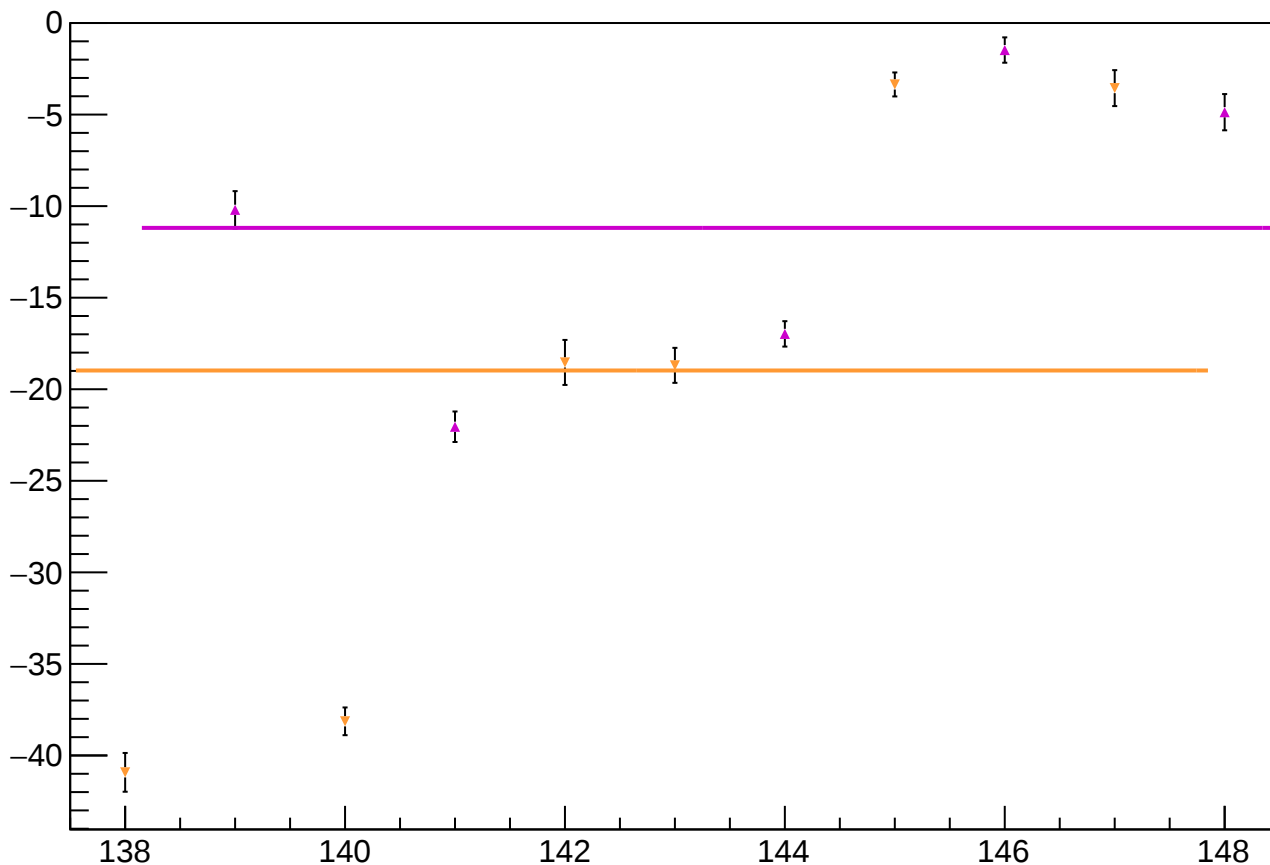
Left In: 0.050 $\pm$ 0.013  $\chi^2$ /NDF:64.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.092 $\pm$ 0.009  $\chi^2$ /NDF: 297.9/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -18.976 $\pm$ 0.359  $\chi^2$ /NDF:1886.6/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

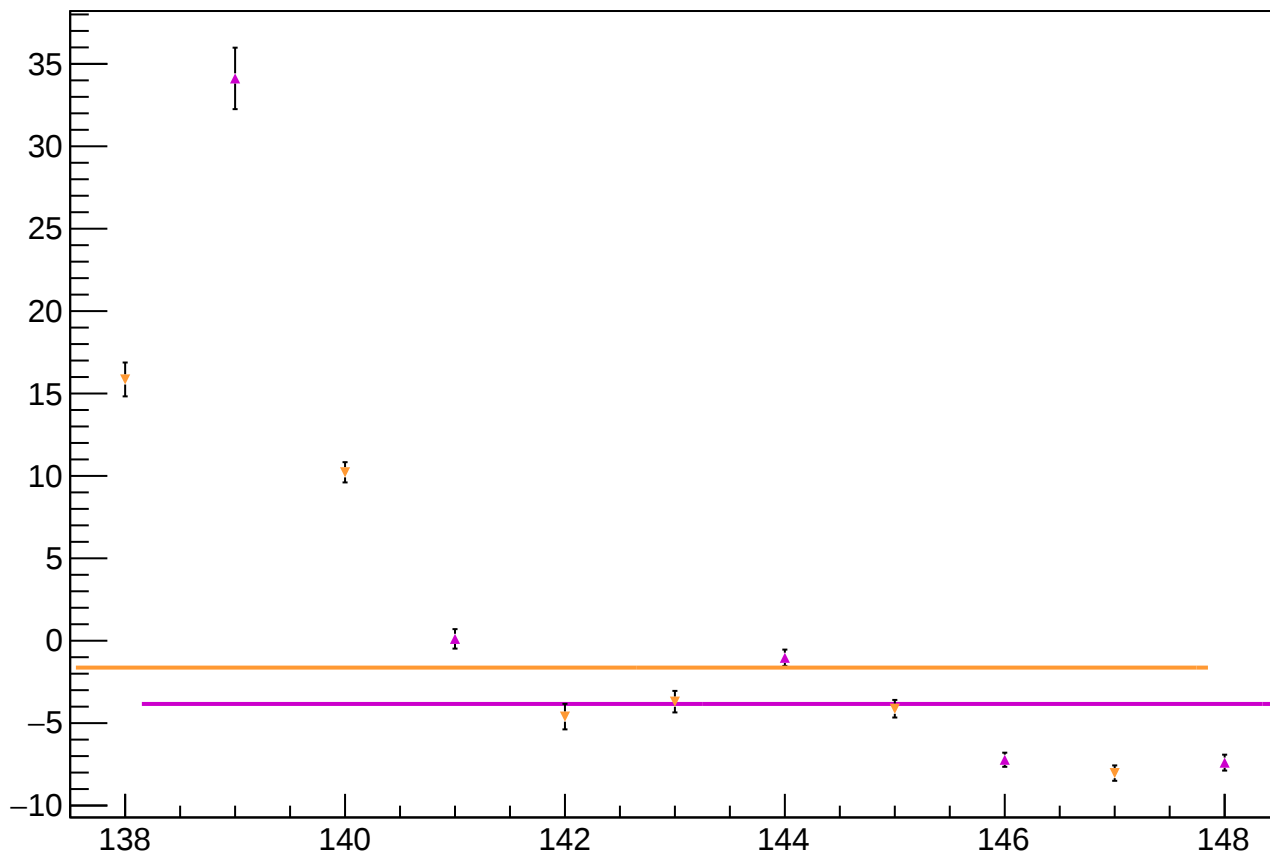
Left In: -11.188 $\pm$ 0.363  $\chi^2$ /NDF:478.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.127 $\pm$ 0.255  $\chi^2$ /NDF: 2597.4/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: -1.630+/-0.252  $\chi^2/\text{NDF}$ : 896.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

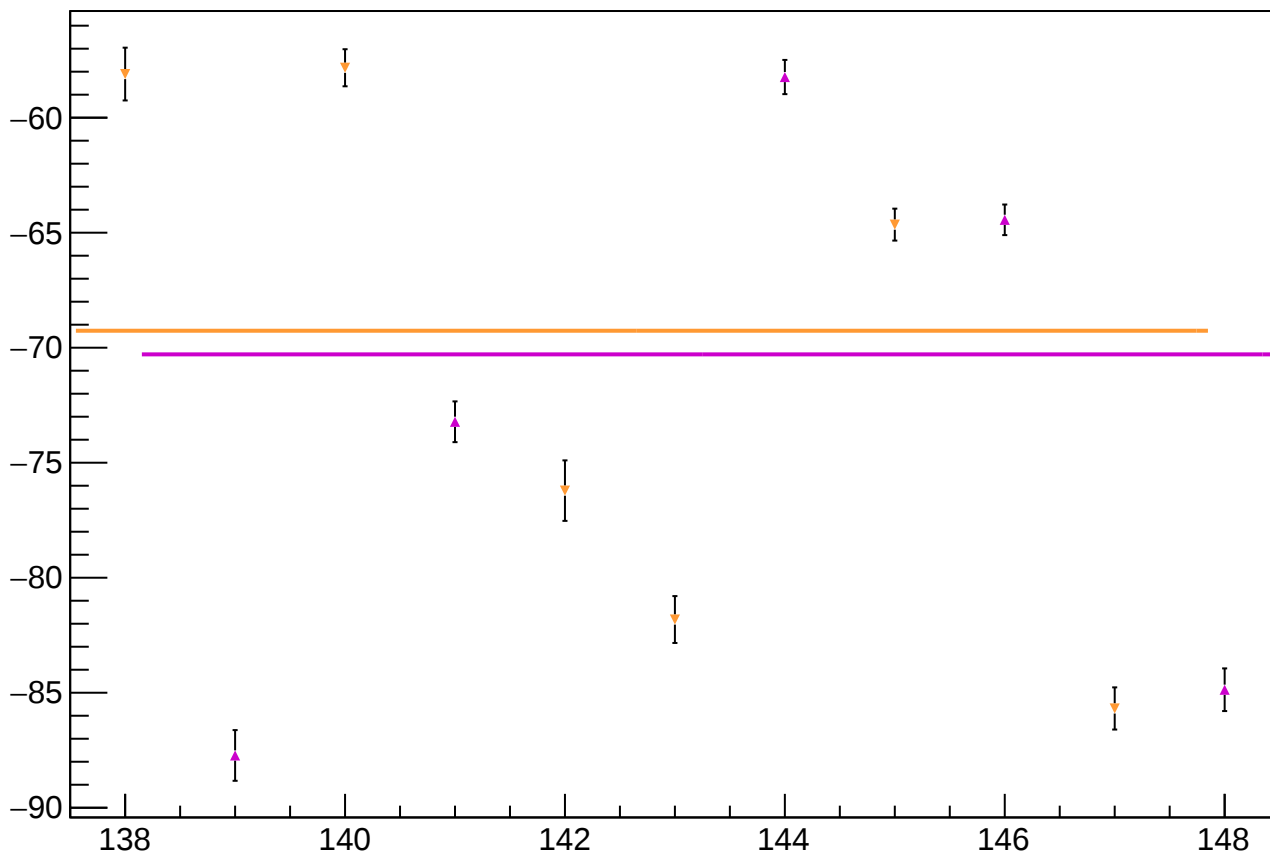
Left In: -3.836+/-0.243  $\chi^2/\text{NDF}$ : 607.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.776+/-0.175  $\chi^2/\text{NDF}$ : 1543.8/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -69.262+/-0.375  $\chi^2/\text{NDF}$ : 840.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

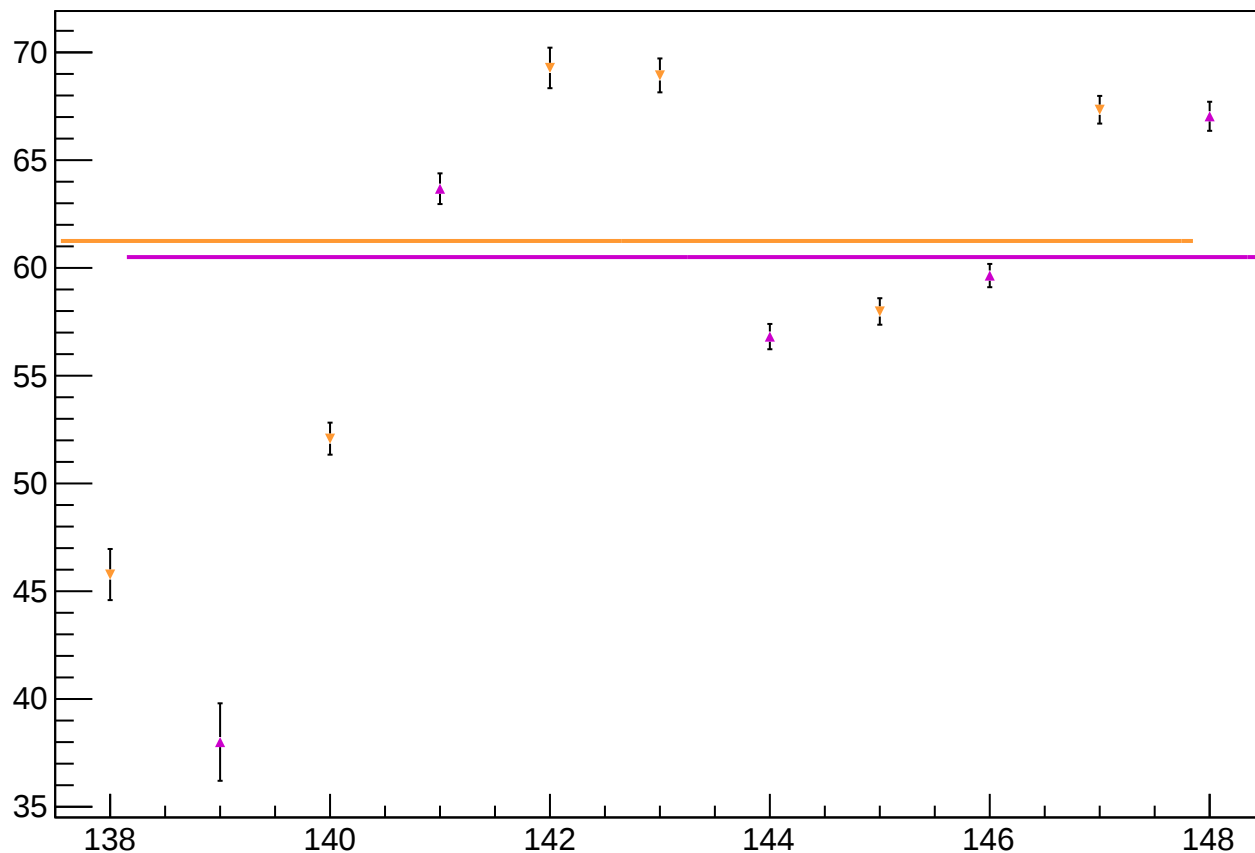
Left In: -70.290+/-0.369  $\chi^2/\text{NDF}$ : 848.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.784+/-0.263  $\chi^2/\text{NDF}$ : 1693.3/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

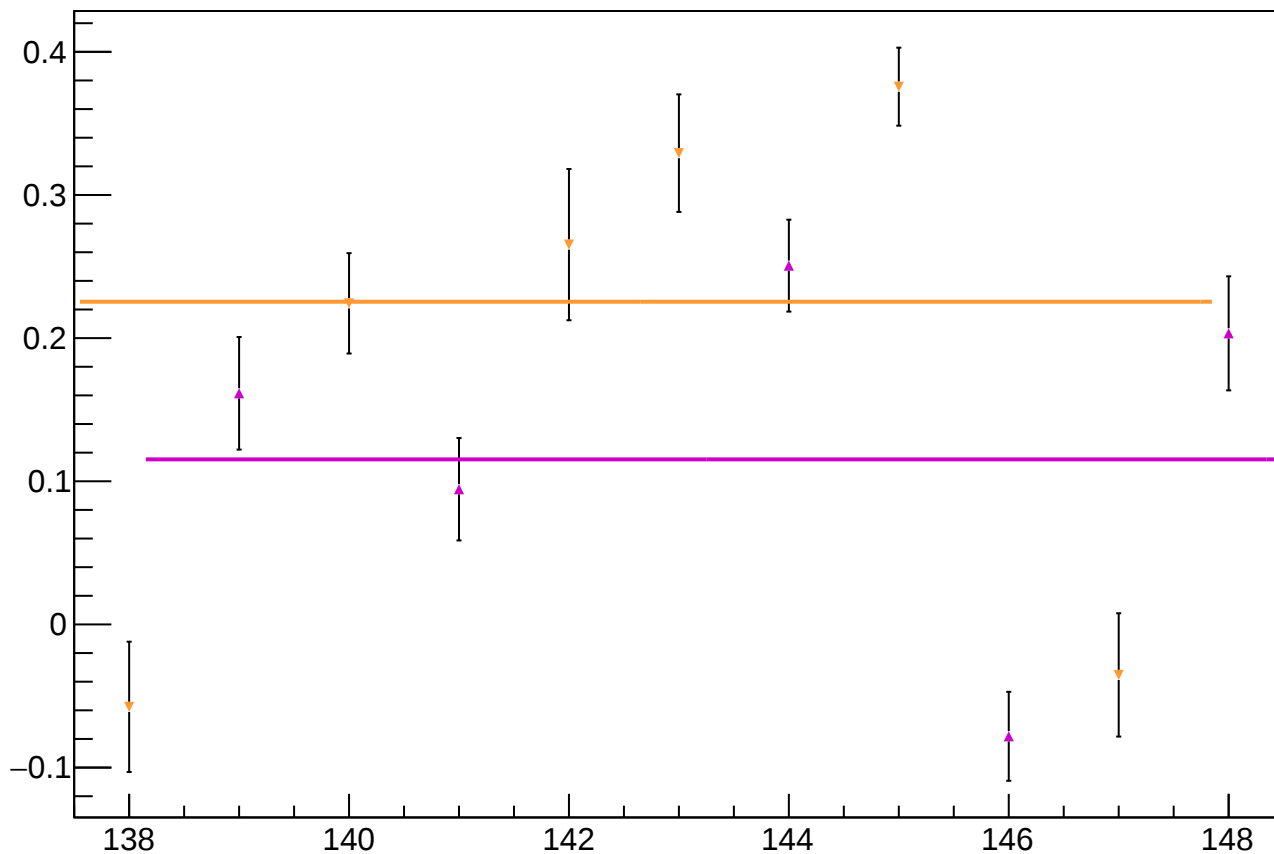
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 61.251+/-0.311  $\chi^2/\text{NDF}$ : 609.3/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 60.503+/-0.304  $\chi^2/\text{NDF}$ : 312.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 60.868+/-0.217  $\chi^2/\text{NDF}$ : 924.8/10  
 - 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: 0.225 $\pm$ 0.016  $\chi^2$ /NDF:112.7/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

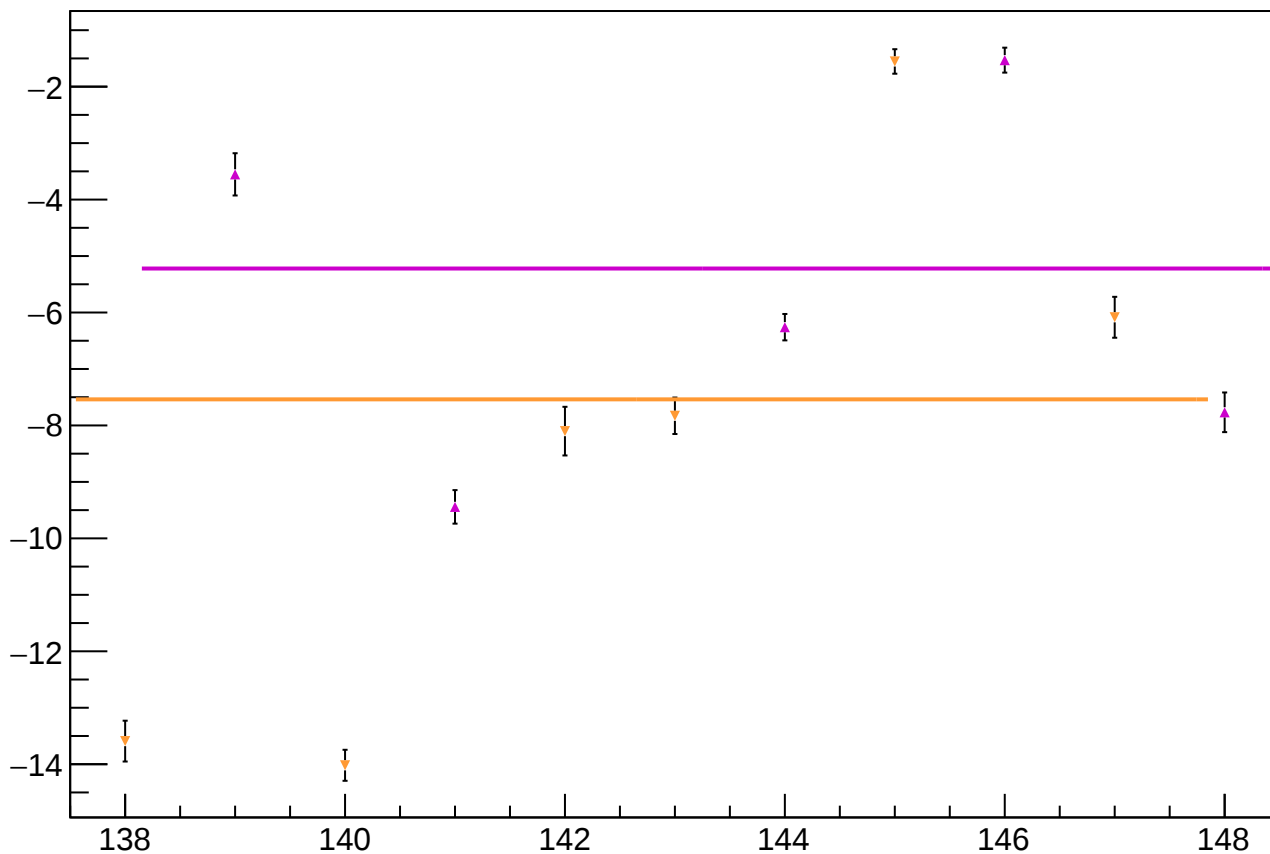
Left In: 0.115 $\pm$ 0.016  $\chi^2$ /NDF:63.1/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.171 $\pm$ 0.011  $\chi^2$ /NDF: 200.6/10

- 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: -7.538+/-0.124  $\chi^2/\text{NDF}$ : 1616.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

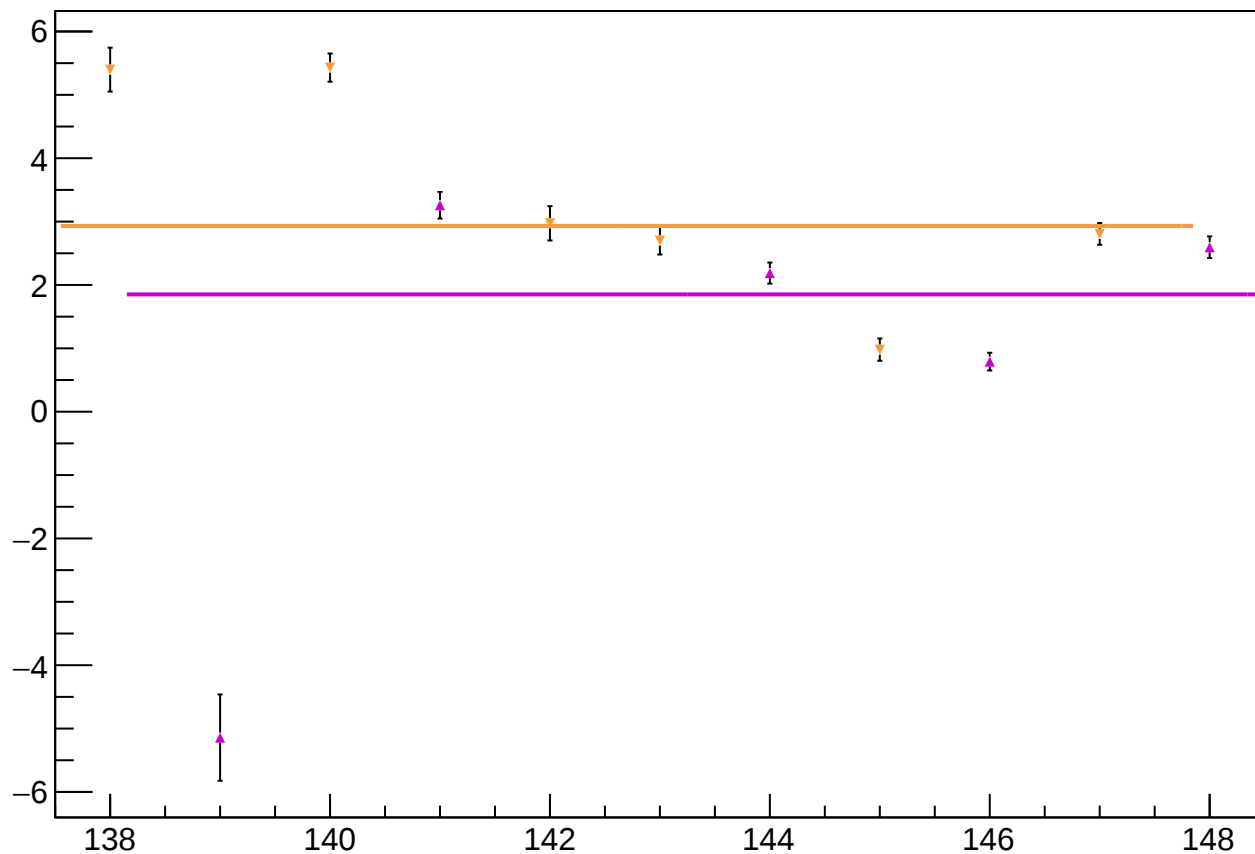
Left In: -5.221+/-0.124  $\chi^2/\text{NDF}$ : 573.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.374+/-0.088  $\chi^2/\text{NDF}$ : 2364.5/10

- 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: 2.930 $\pm$ 0.088  $\chi^2$ /NDF:301.2/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

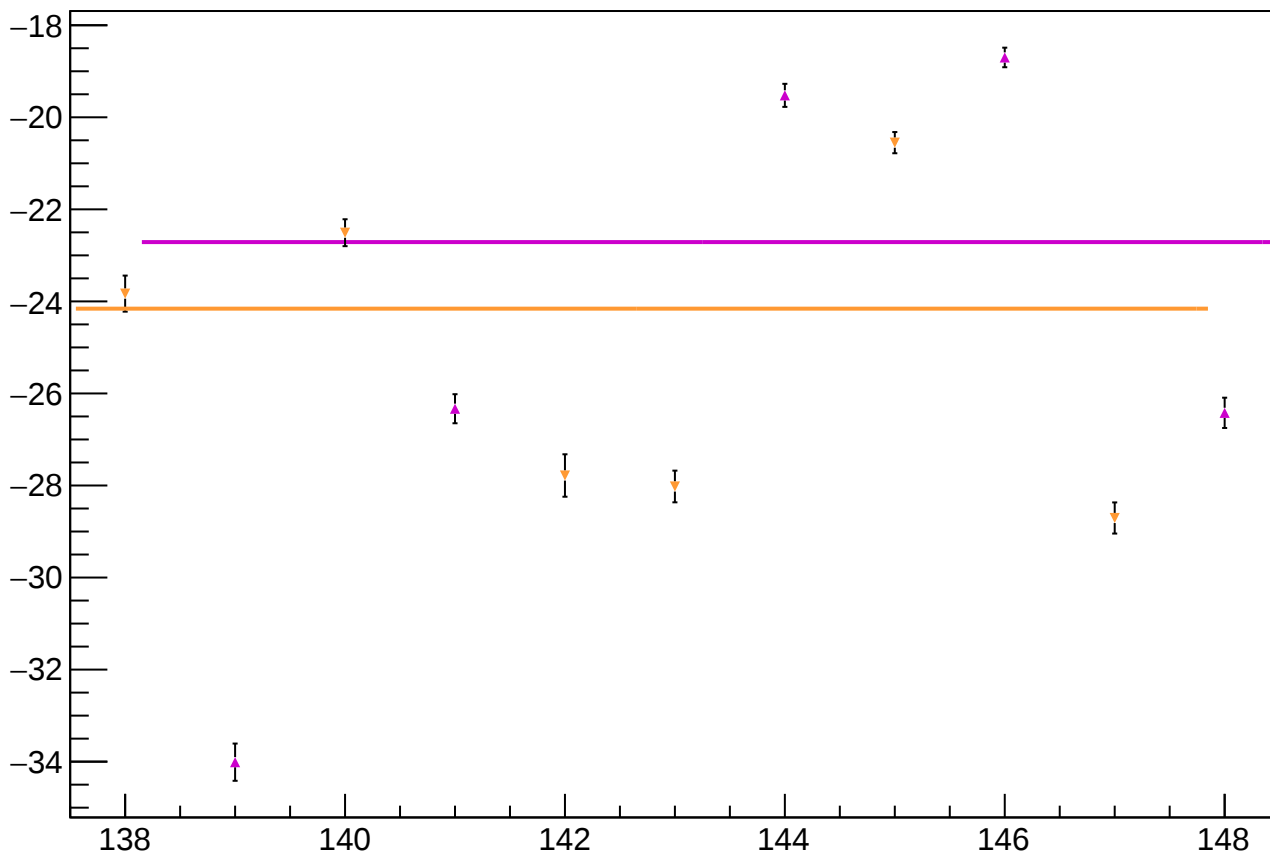
Left In: 1.851 $\pm$ 0.083  $\chi^2$ /NDF:231.0/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.357 $\pm$ 0.060  $\chi^2$ /NDF: 612.0/10

- 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: -24.158+/-0.130  $\chi^2/\text{NDF}$ : 646.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

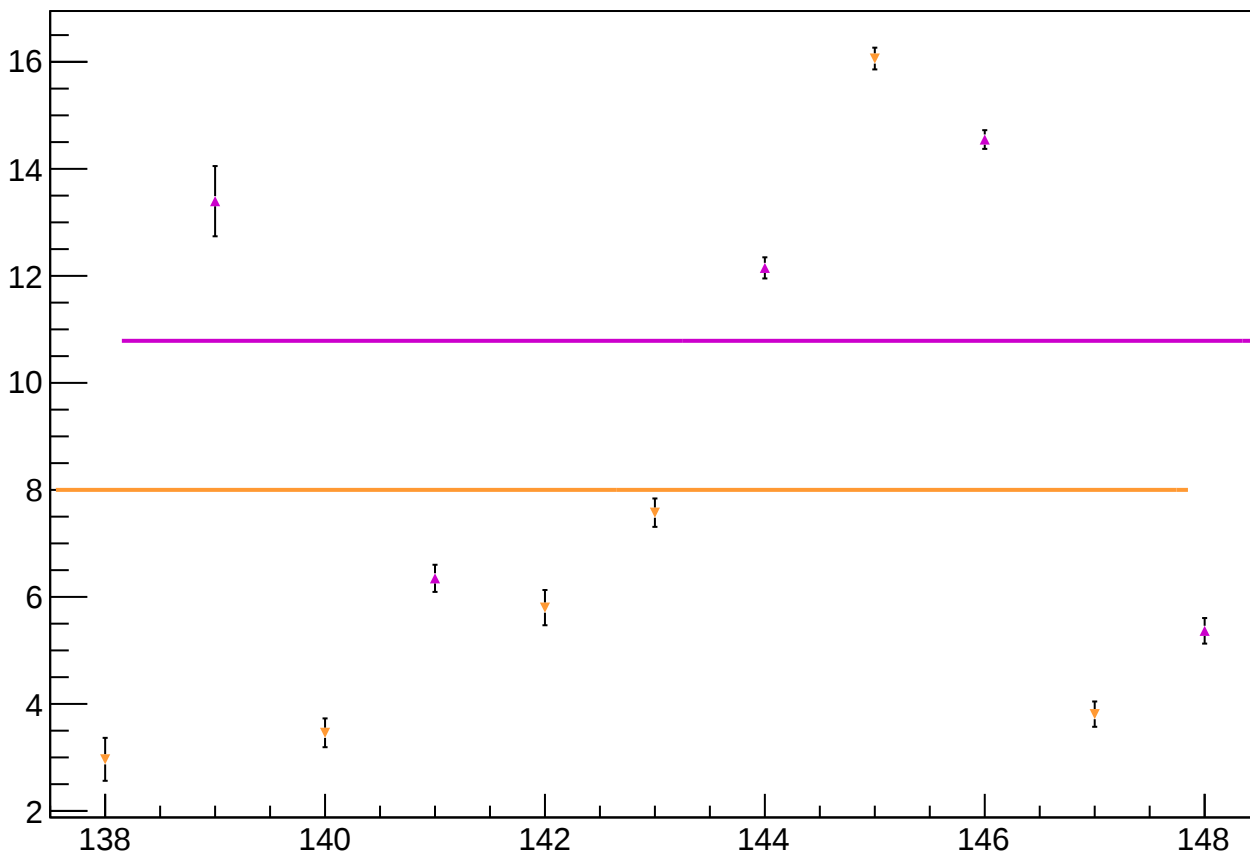
Left In: -22.711+/-0.126  $\chi^2/\text{NDF}$ : 1557.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.408+/-0.090  $\chi^2/\text{NDF}$ : 2267.3/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

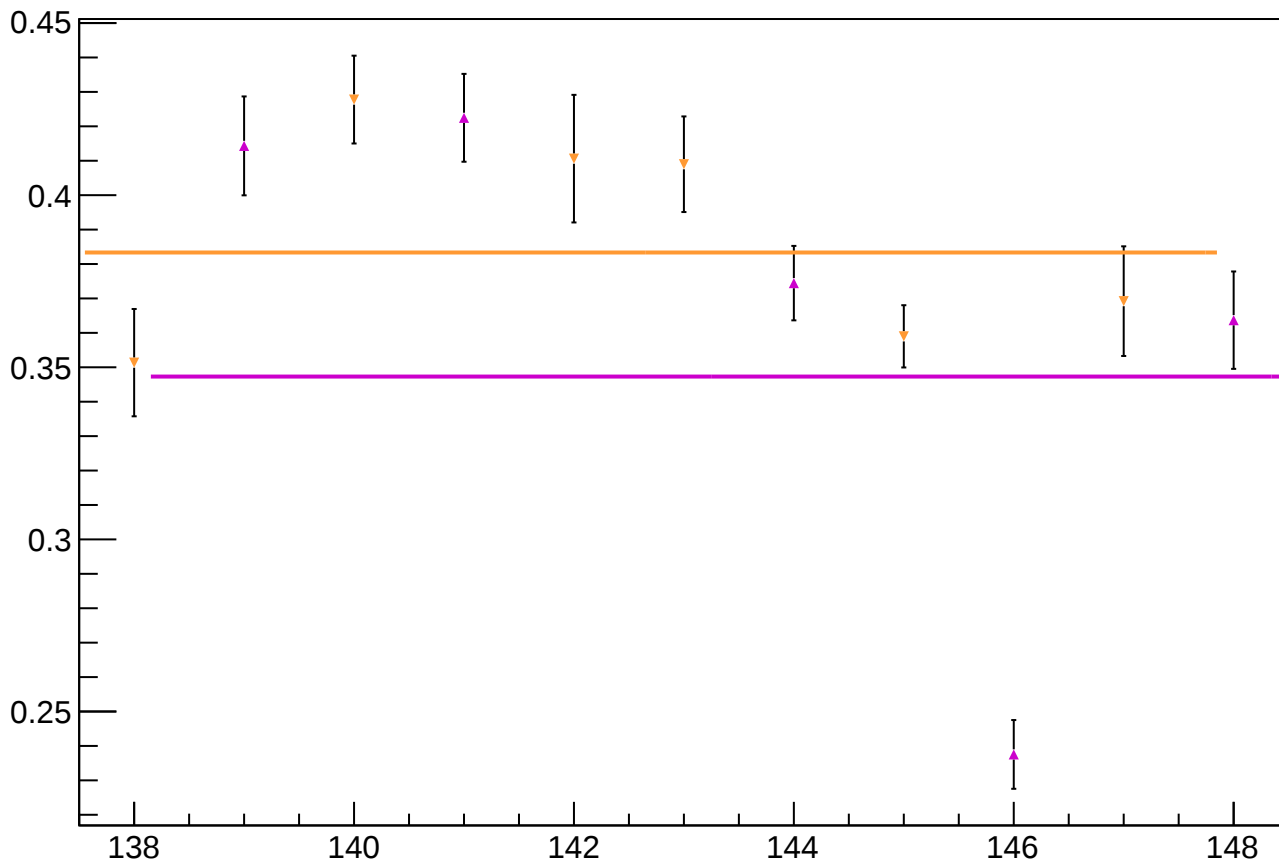
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.000 $\pm$ 0.108  $\chi^2$ /NDF:2377.1/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 10.786 $\pm$ 0.103  $\chi^2$ /NDF:1346.9/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 9.457 $\pm$ 0.075  $\chi^2$ /NDF: 4071.0/10  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 0.383 $\pm$ 0.005  $\chi^2$ /NDF:30.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

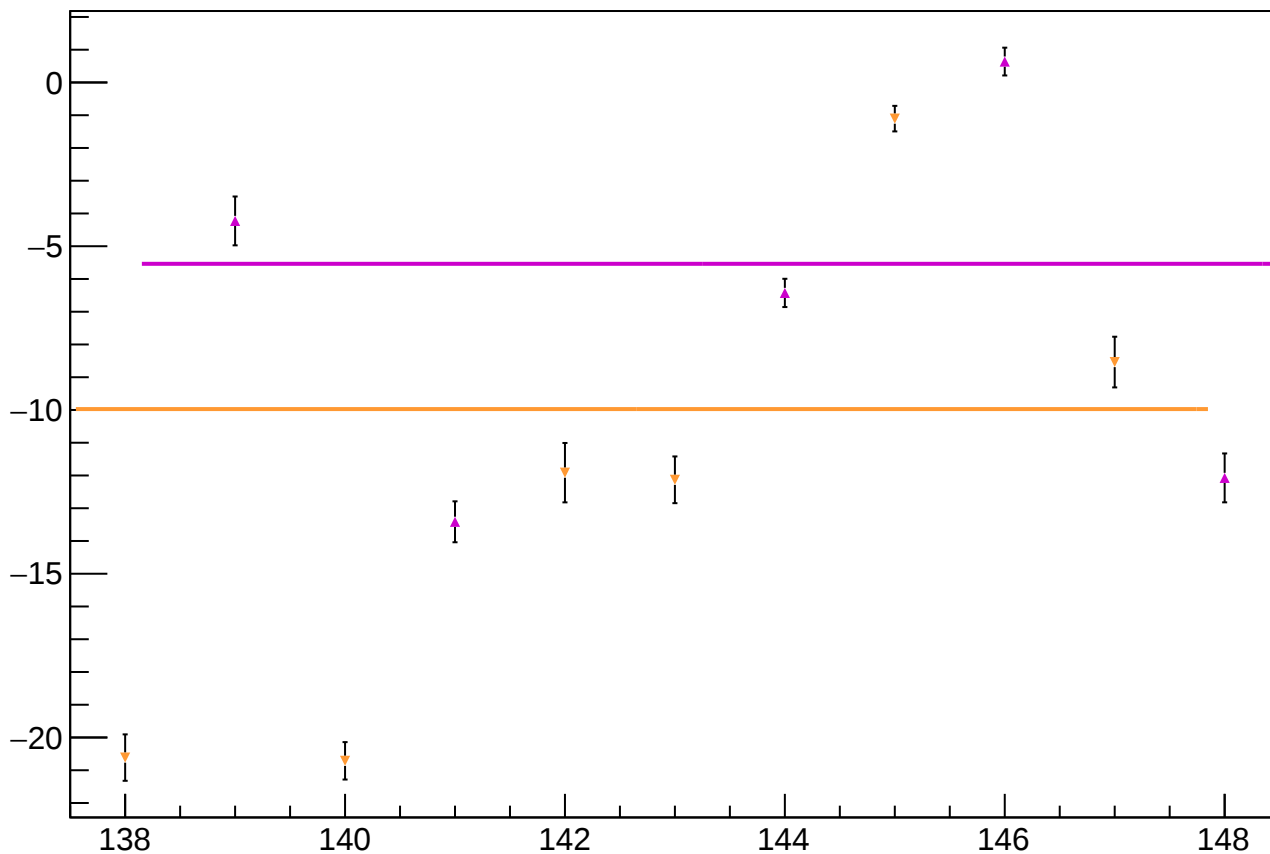
Left In: 0.347 $\pm$ 0.005  $\chi^2$ /NDF:184.9/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.365 $\pm$ 0.004  $\chi^2$ /NDF: 237.3/10

- 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: -9.972 $\pm$ 0.246  $\chi^2$ /NDF:1112.8/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

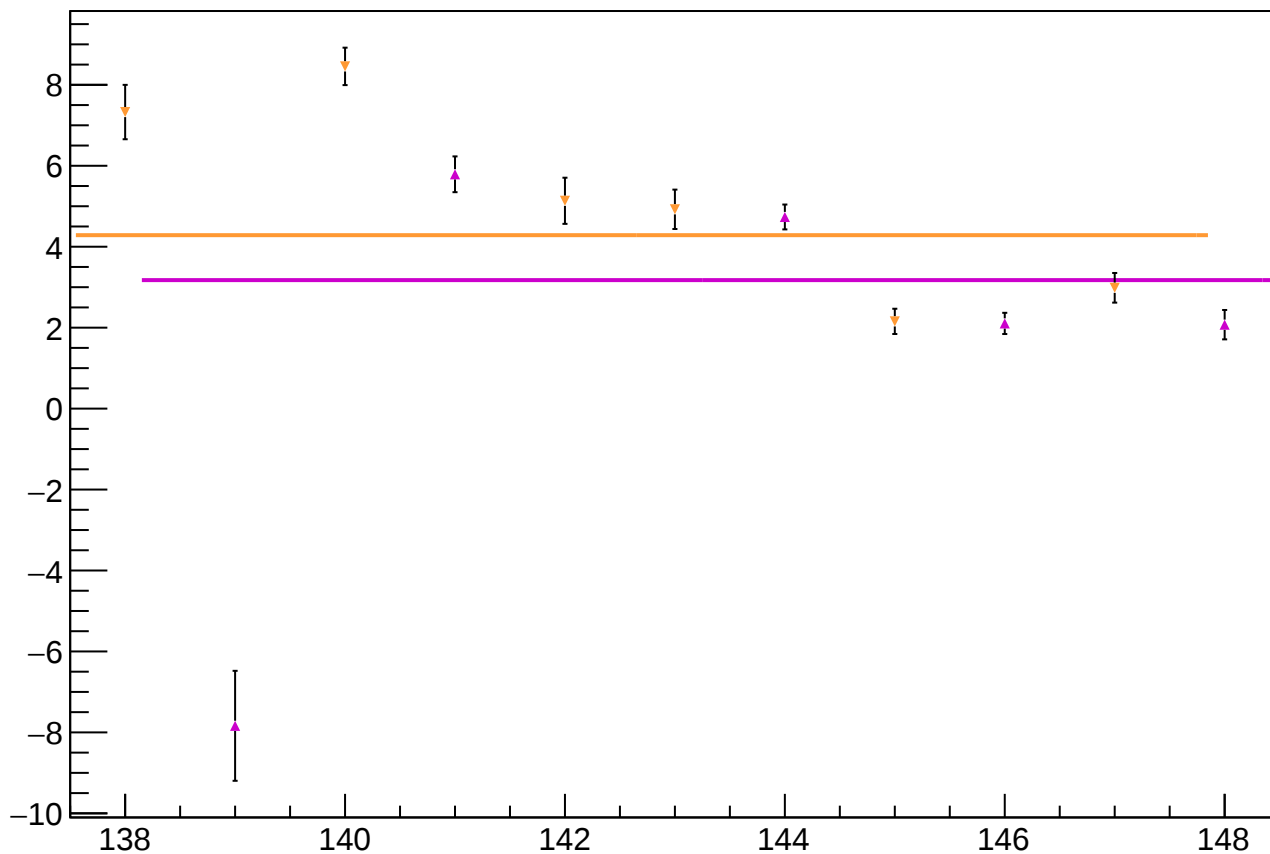
Left In: -5.537 $\pm$ 0.242  $\chi^2$ /NDF:454.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.715 $\pm$ 0.173  $\chi^2$ /NDF: 1732.6/10

- 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: 4.285 $\pm$ 0.177  $\chi^2$ /NDF:165.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

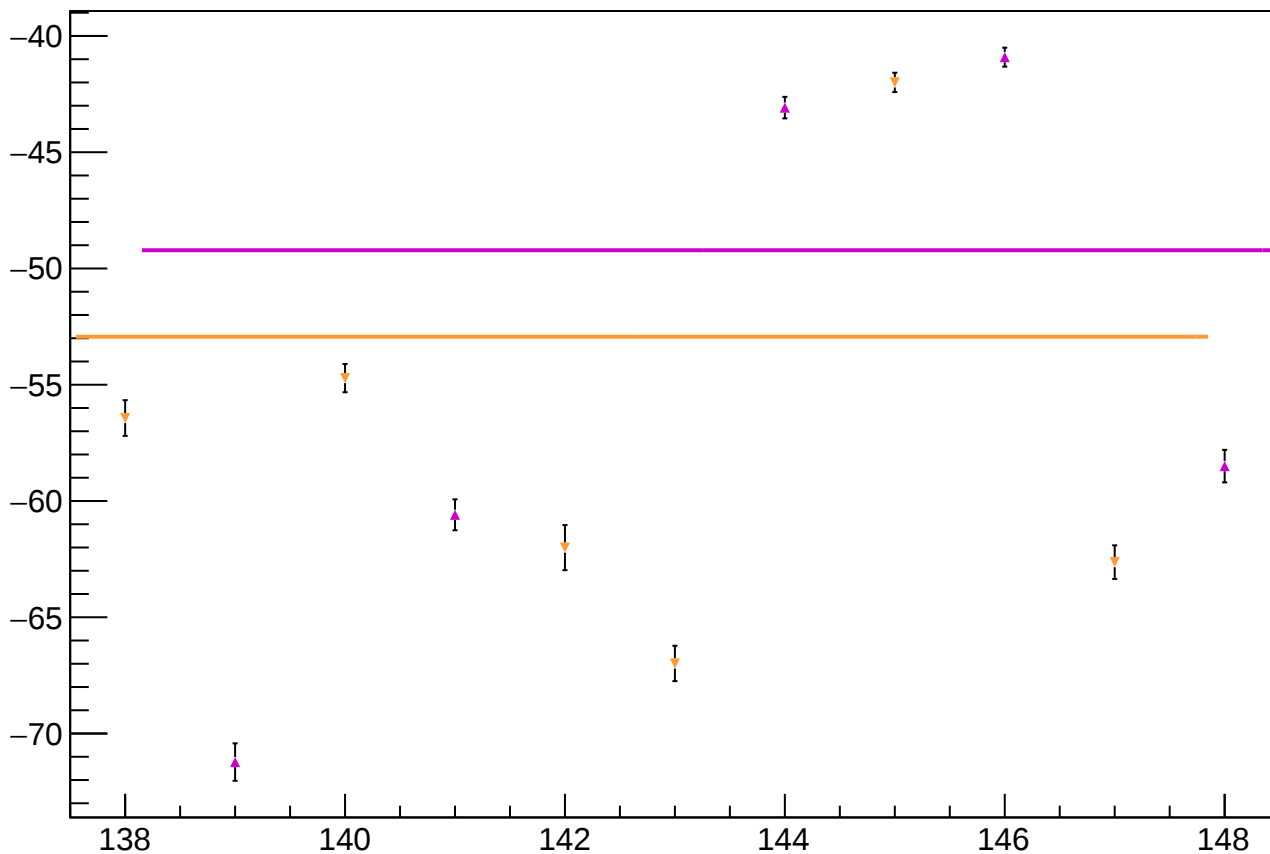
Left In: 3.175 $\pm$ 0.161  $\chi^2$ /NDF:152.4/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.679 $\pm$ 0.119  $\chi^2$ /NDF: 338.9/10

- 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: -52.934+/-0.259  $\chi^2/\text{NDF}$ : 1329.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

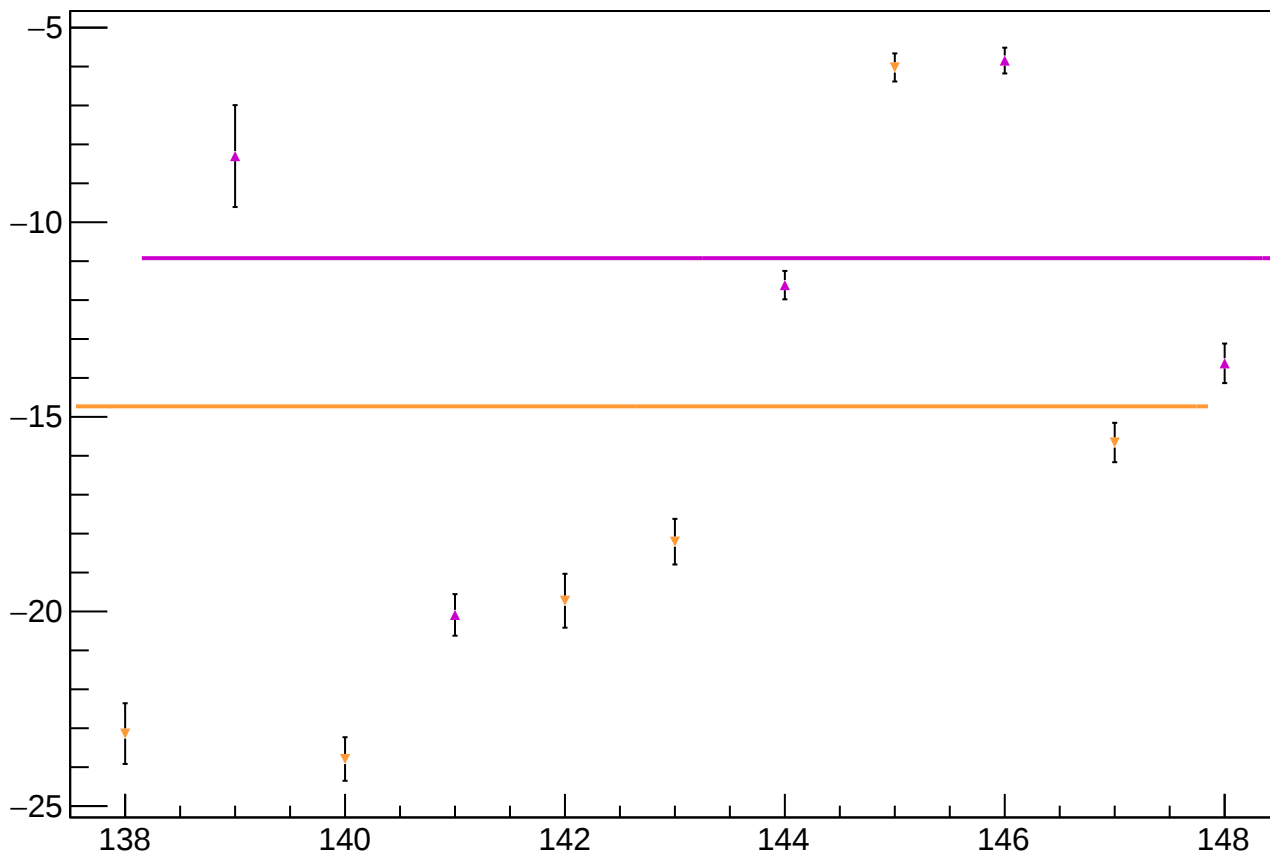
Left In: -49.216+/-0.246  $\chi^2/\text{NDF}$ : 1805.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -50.977+/-0.178  $\chi^2/\text{NDF}$ : 3243.4/10

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -14.730+/-0.216  $\chi^2/\text{NDF}$ :1050.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

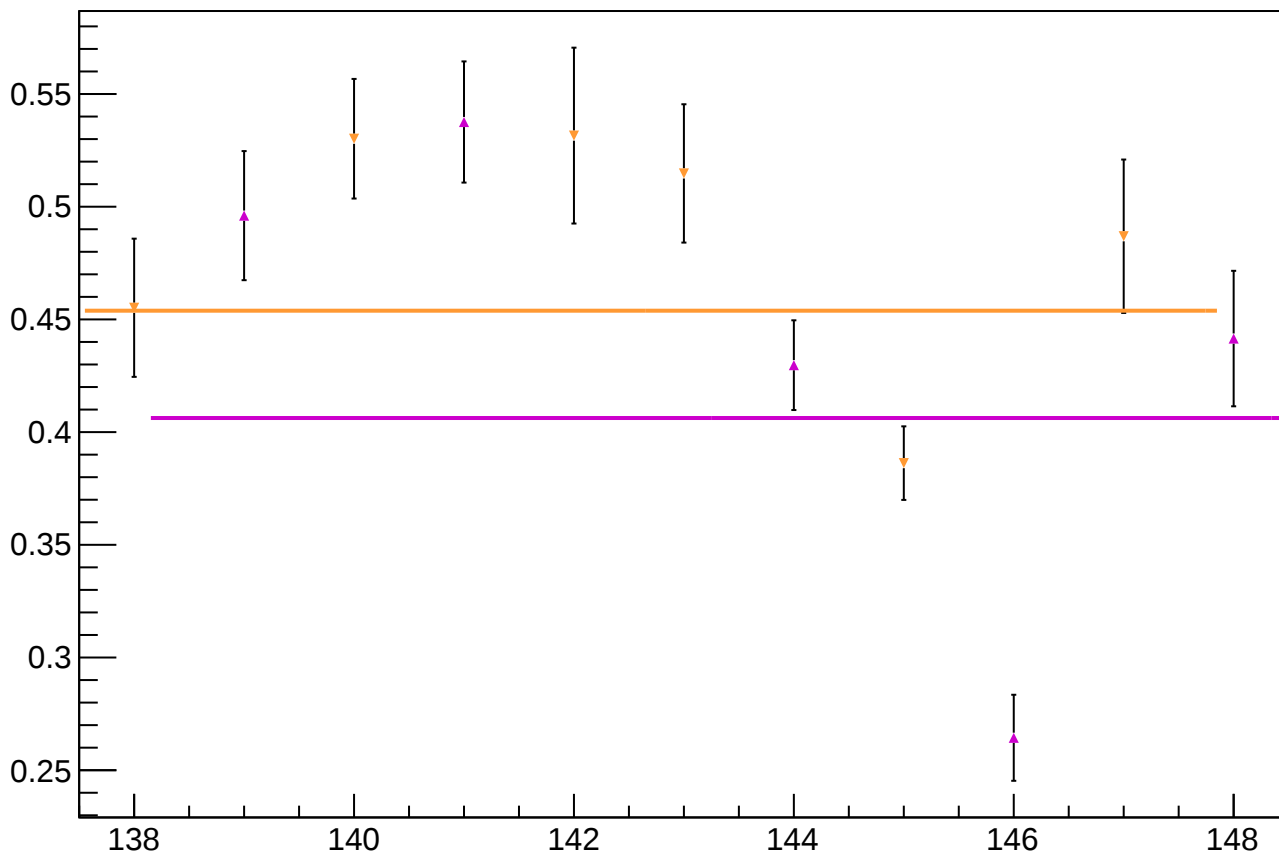
Left In: -10.923+/-0.202  $\chi^2/\text{NDF}$ :565.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.695+/-0.147  $\chi^2/\text{NDF}$ : 1782.3/10

- sign 0.000+/-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: 0.454 $\pm$ 0.011  $\chi^2$ /NDF: 34.3/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

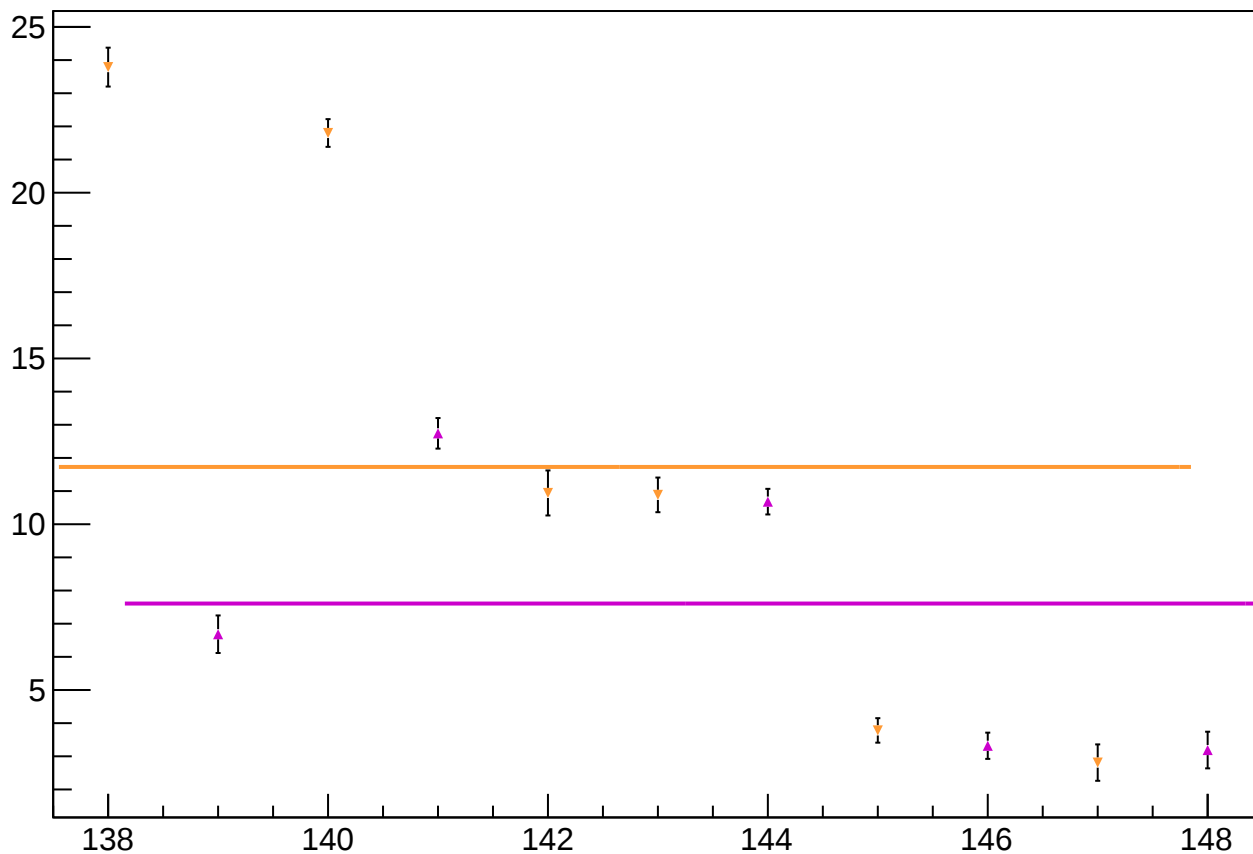
Left In: 0.406 $\pm$ 0.011  $\chi^2$ /NDF: 91.7/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.430 $\pm$ 0.007  $\chi^2$ /NDF: 136.1/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 11.728+/-0.200  $\chi^2/\text{NDF}$ :1732.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

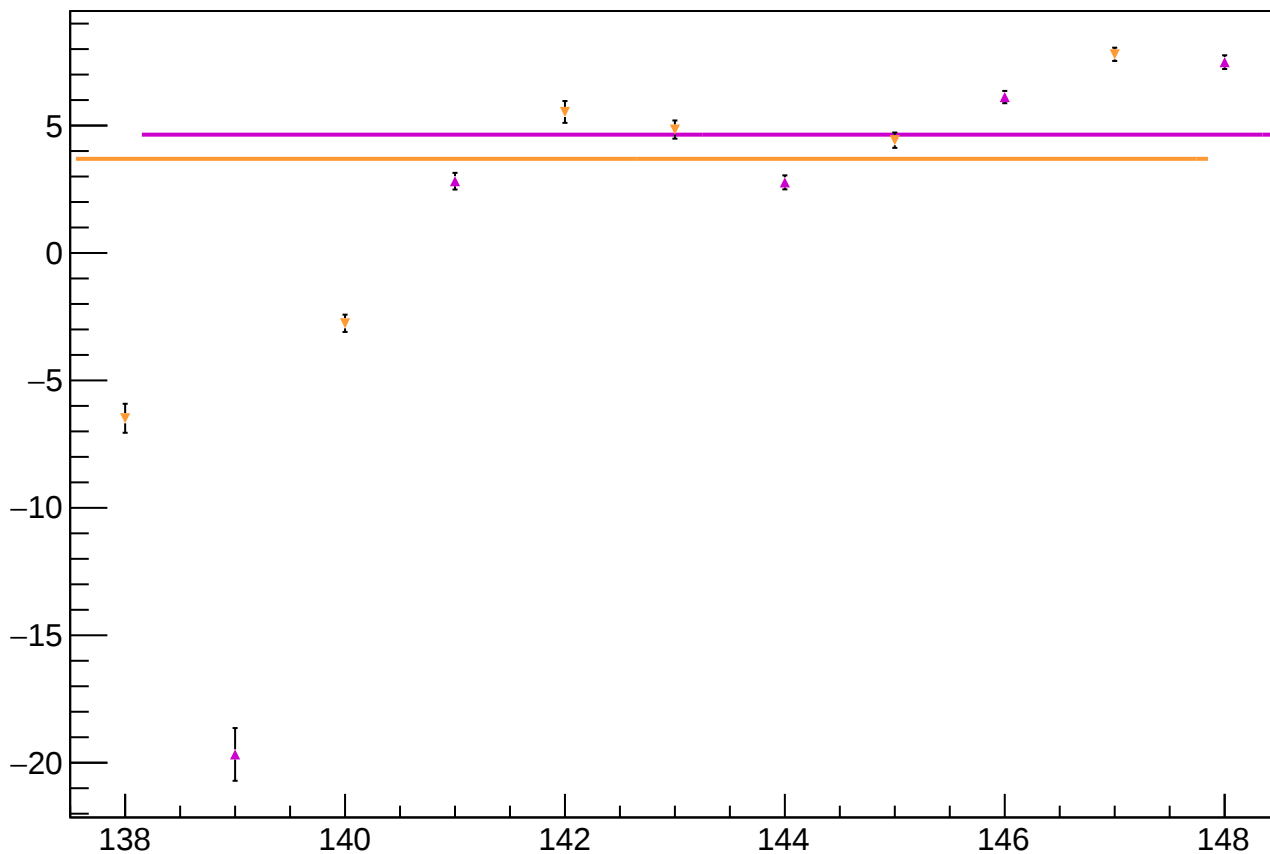
Left In: 7.608+/-0.203  $\chi^2/\text{NDF}$ :371.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.706+/-0.142  $\chi^2/\text{NDF}$ : 2313.4/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.695+/-0.140  $\chi^2/\text{NDF}$ :963.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

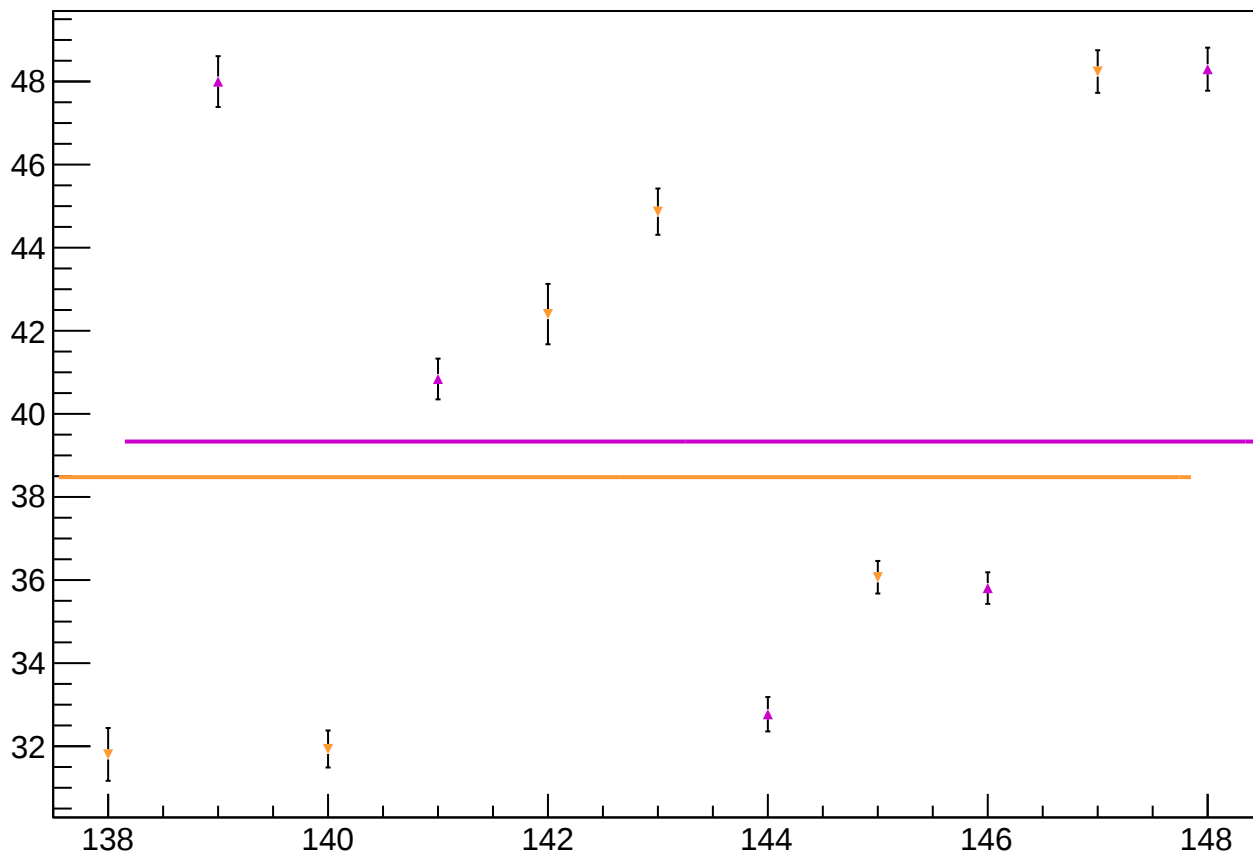
Left In: 4.643+/-0.136  $\chi^2/\text{NDF}$ :778.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.185+/-0.097  $\chi^2/\text{NDF}$ : 1764.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

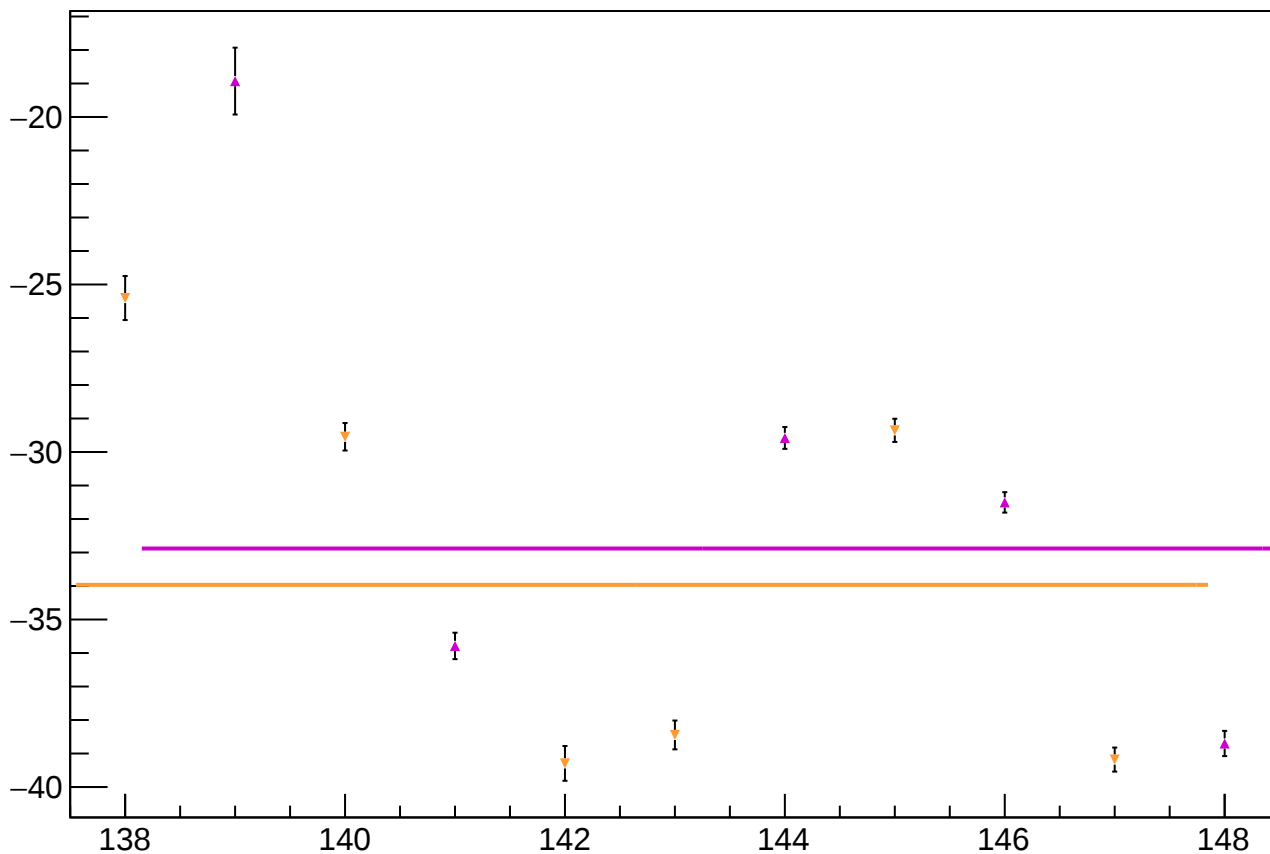
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 38.477+/-0.209  $\chi^2/\text{NDF}$ : 887.1/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 39.334+/-0.207  $\chi^2/\text{NDF}$ : 847.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 38.909+/-0.147  $\chi^2/\text{NDF}$ : 1742.9/10  
 - 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.965+/-0.173  $\chi^2/\text{NDF}$ : 887.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

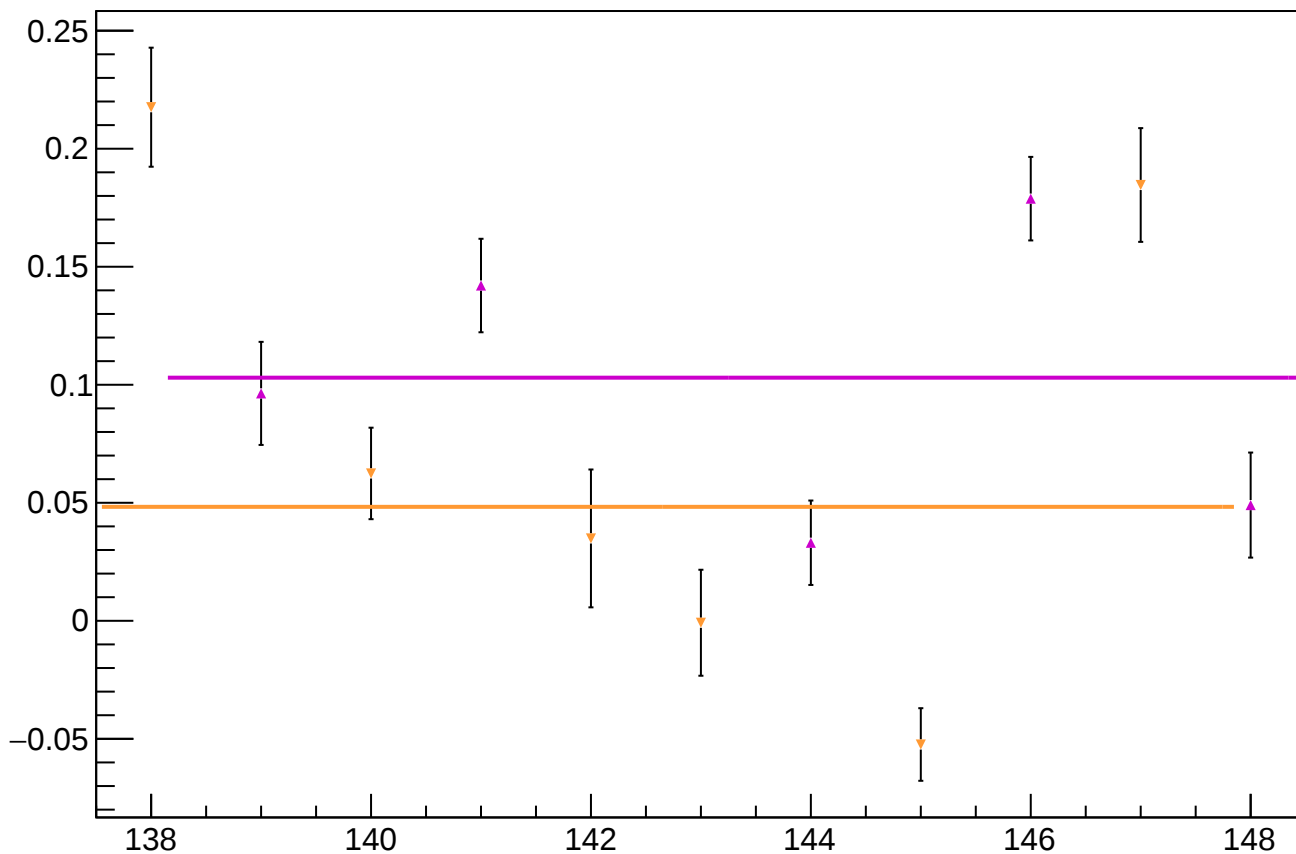
Left In: -32.881+/-0.170  $\chi^2/\text{NDF}$ : 611.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.413+/-0.121  $\chi^2/\text{NDF}$ : 1519.4/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.048 $\pm$ 0.009  $\chi^2$ /NDF:125.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

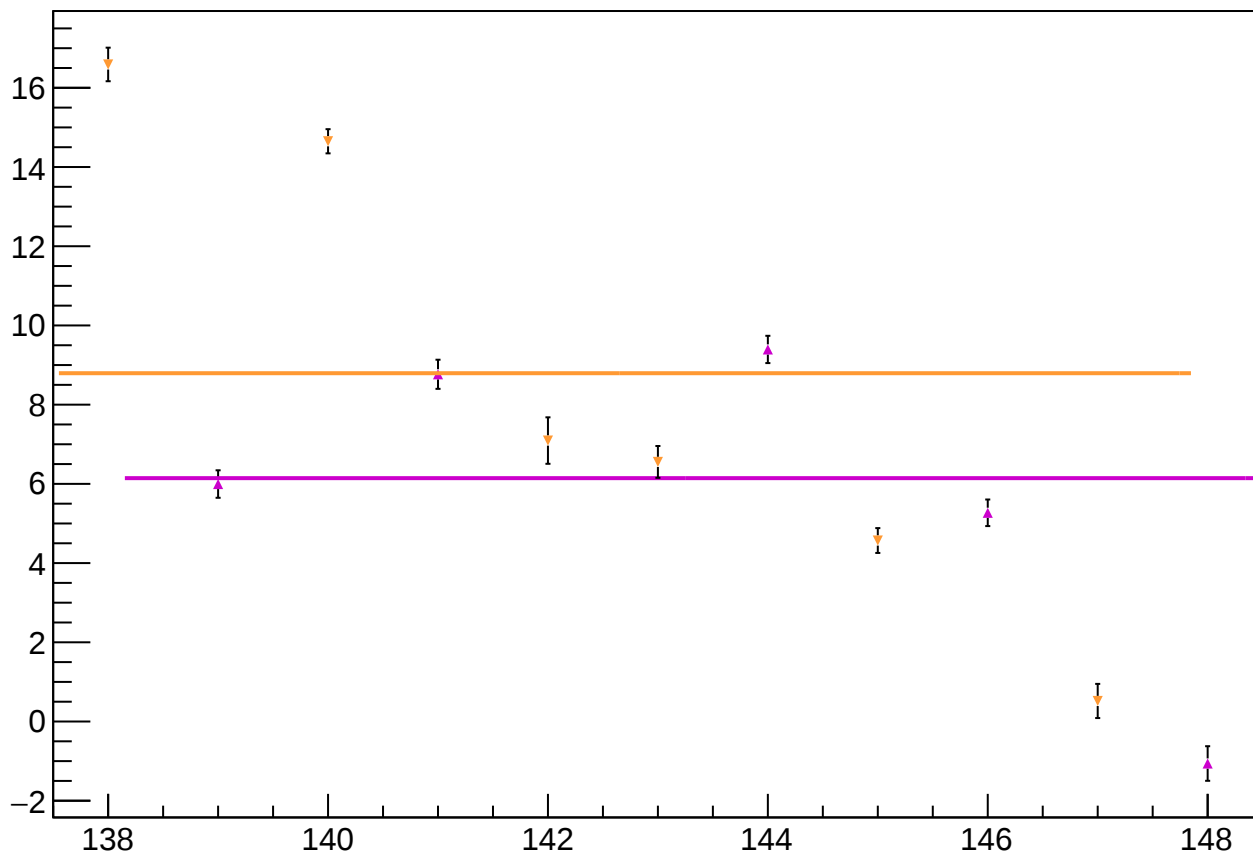
Left In: 0.103 $\pm$ 0.009  $\chi^2$ /NDF:43.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.075 $\pm$ 0.006  $\chi^2$ /NDF: 188.7/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

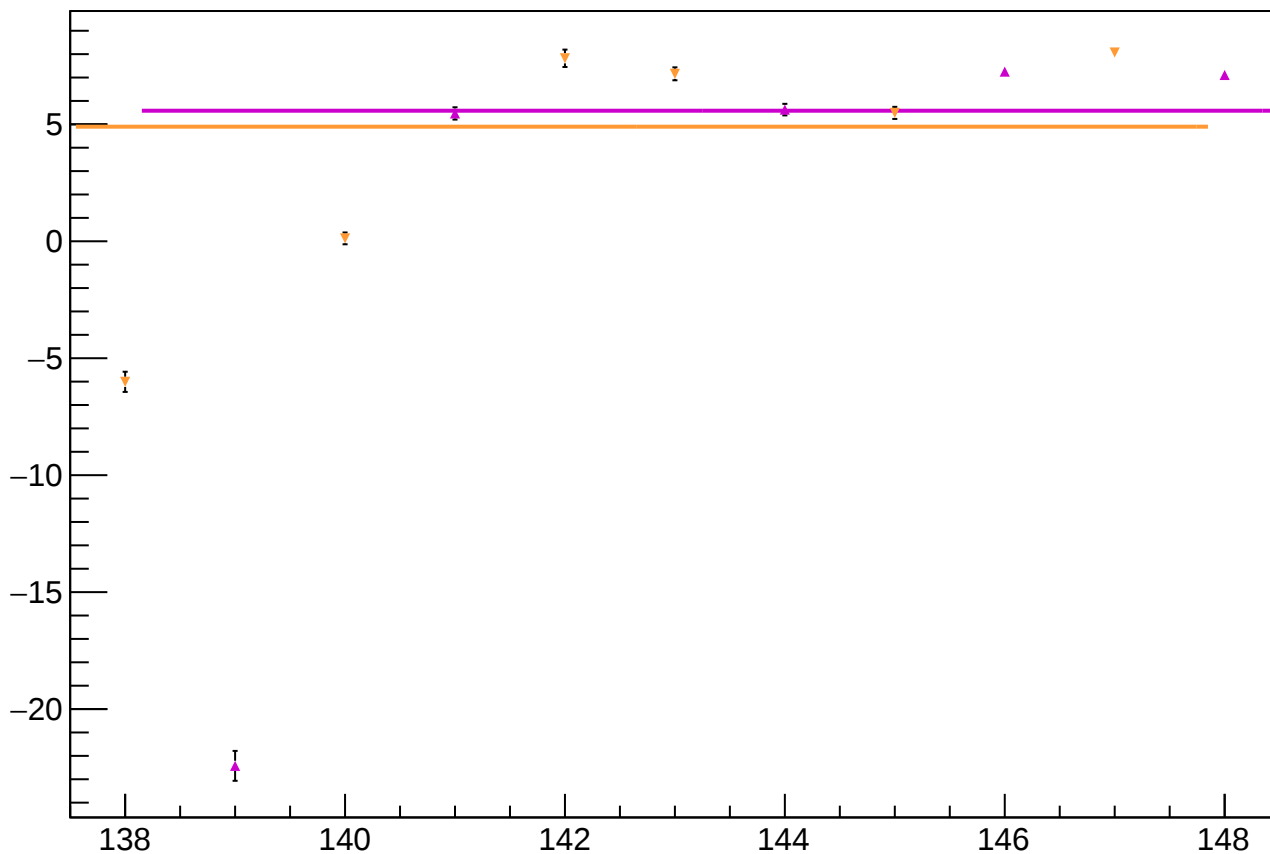
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.794+/-0.156  $\chi^2/\text{NDF}$ :1295.8/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.145+/-0.162  $\chi^2/\text{NDF}$ :419.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 7.514+/-0.112  $\chi^2/\text{NDF}$ : 1853.7/10  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.899+/-0.112  $\chi^2/\text{NDF}$ :1363.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

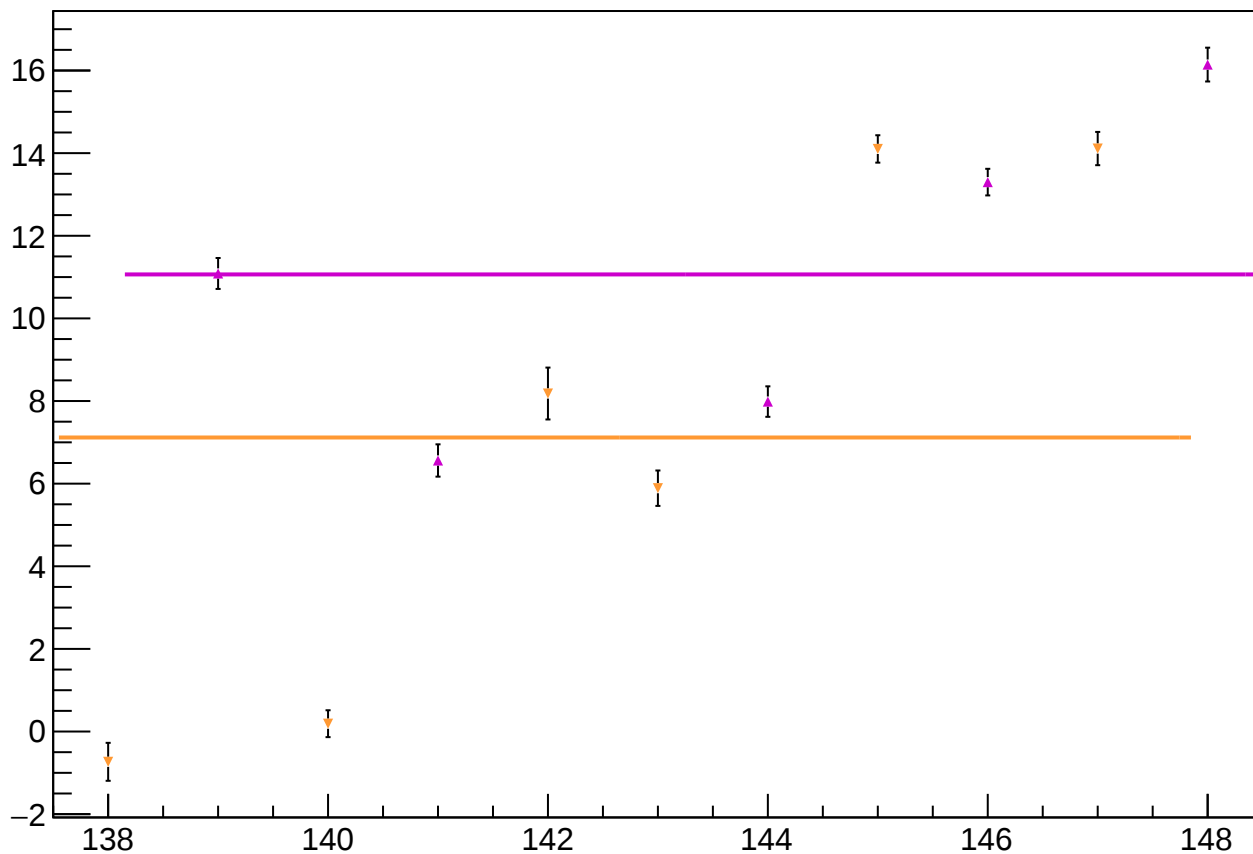
Left In: 5.582+/-0.114  $\chi^2/\text{NDF}$ :2033.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.234+/-0.080  $\chi^2/\text{NDF}$ : 3415.3/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

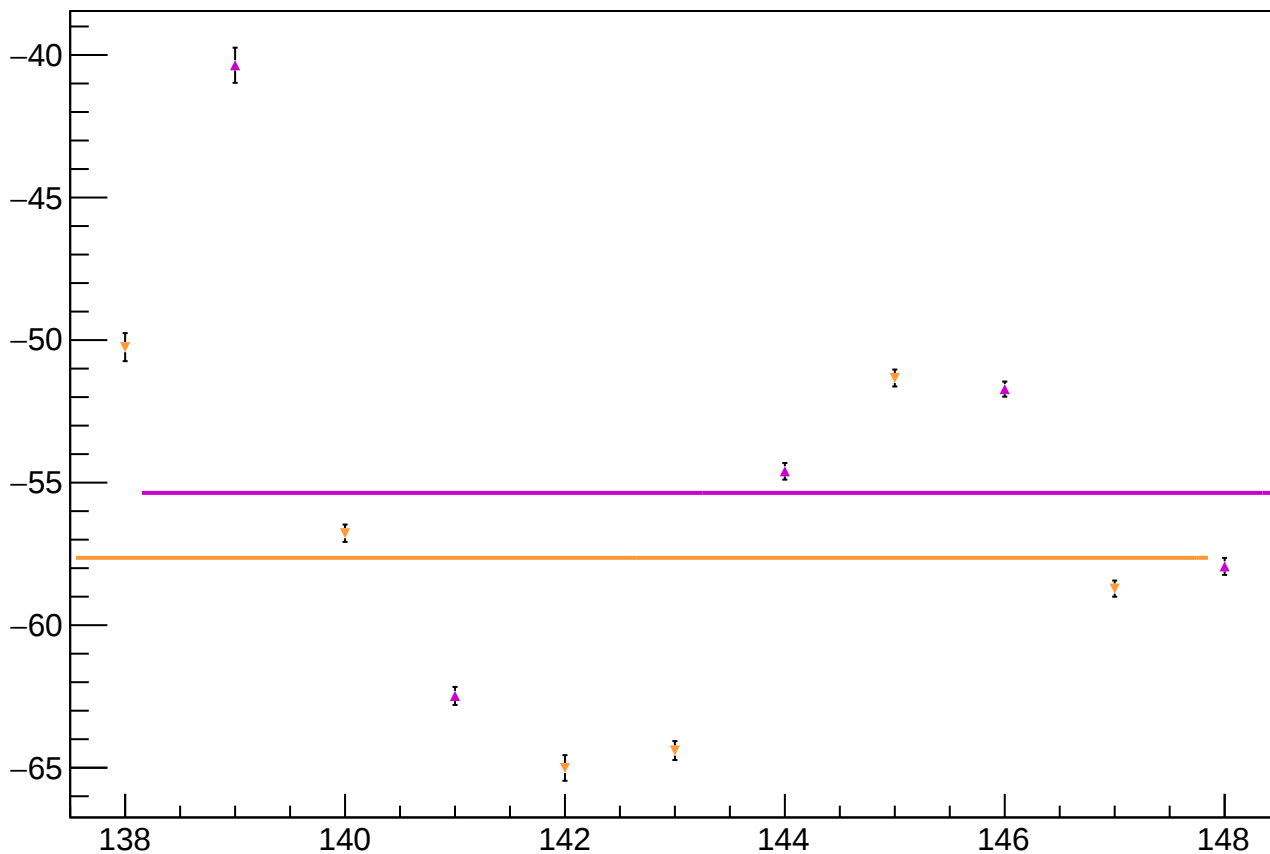
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.117+/-0.163  $\chi^2/\text{NDF}$ :1502.0/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.064+/-0.165  $\chi^2/\text{NDF}$ :404.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 9.069+/-0.116  $\chi^2/\text{NDF}$ : 2194.6/10  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: -57.637+/-0.138  $\chi^2/\text{NDF}$ :1382.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

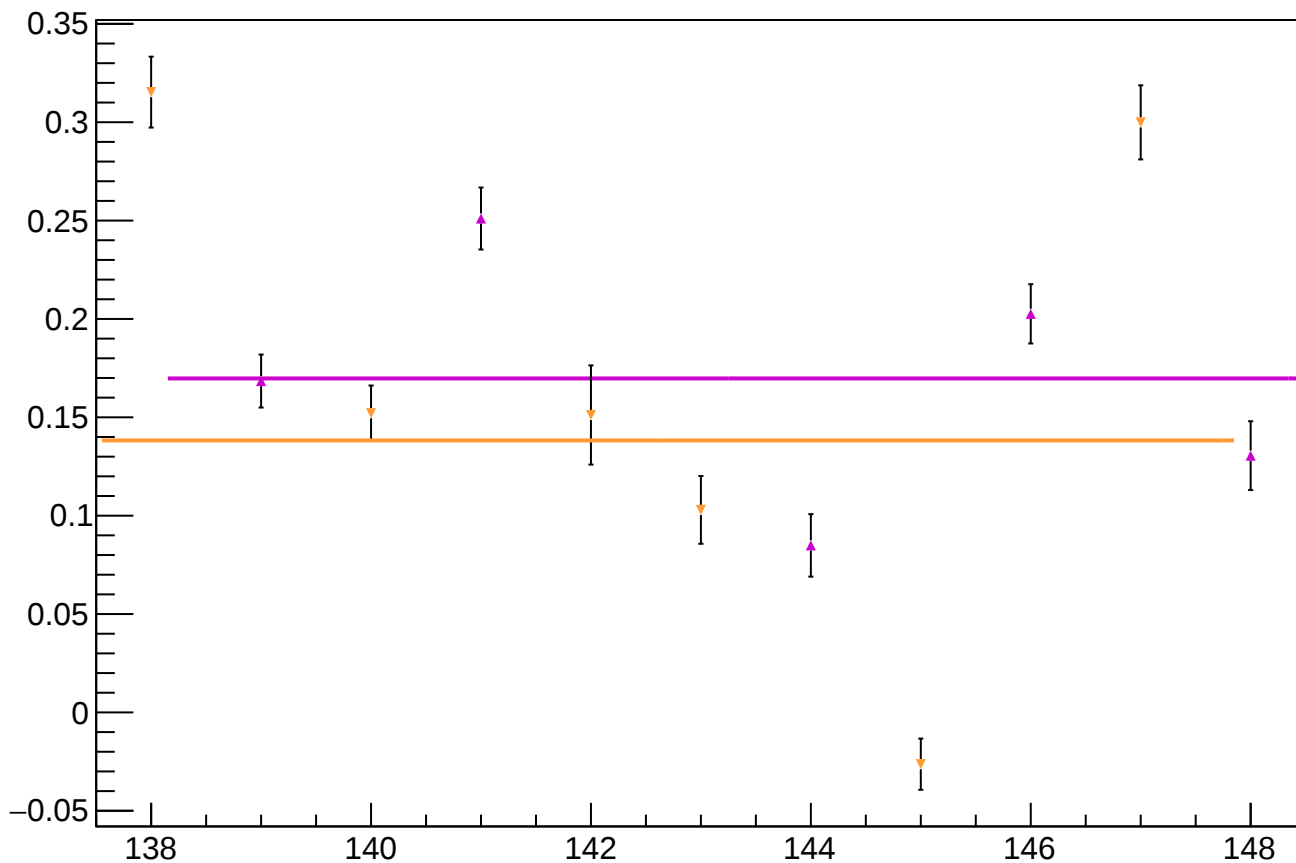
Left In: -55.360+/-0.142  $\chi^2/\text{NDF}$ :1370.5/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -56.531+/-0.099  $\chi^2/\text{NDF}$ : 2886.0/10

- 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: 0.138 $\pm$ 0.007  $\chi^2$ /NDF:335.7/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

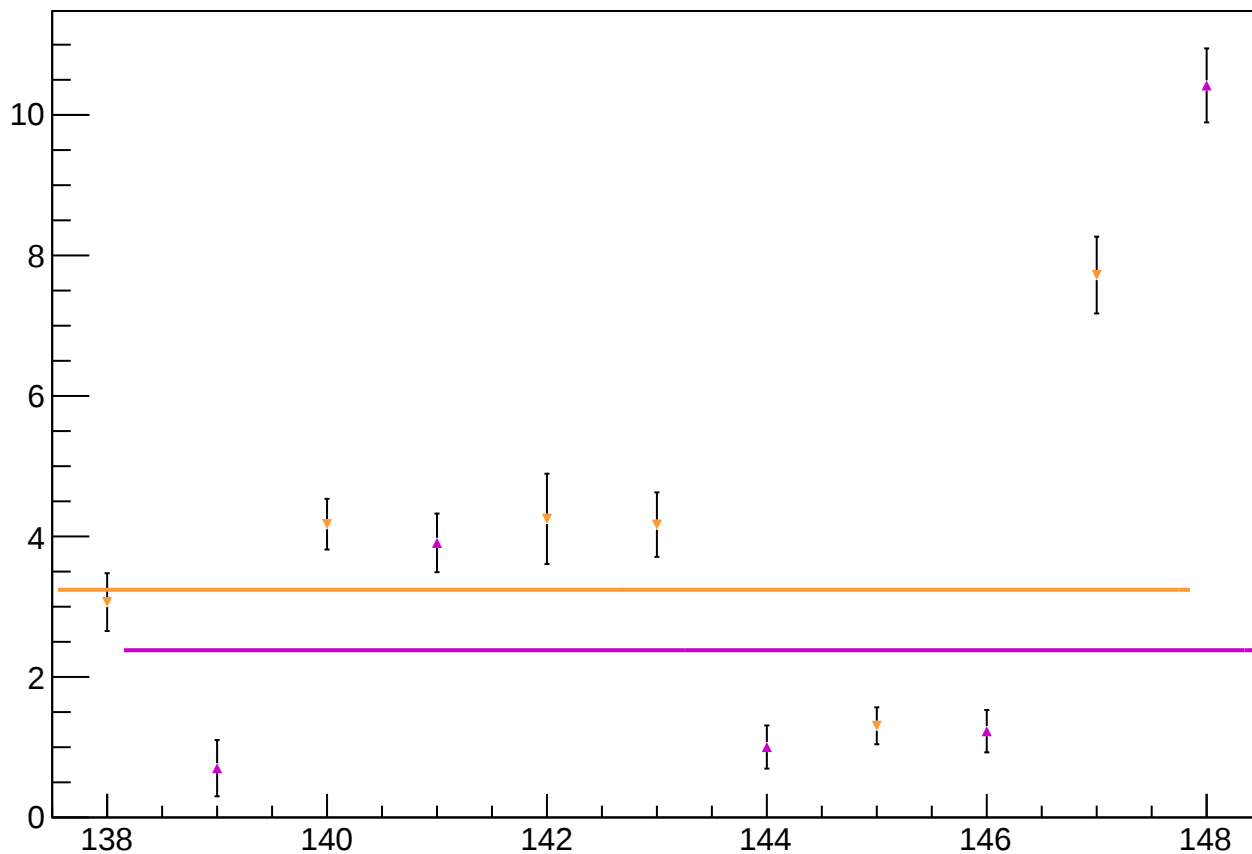
Left In: 0.170 $\pm$ 0.007  $\chi^2$ /NDF:64.9/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.154 $\pm$ 0.005  $\chi^2$ /NDF: 411.3/10

- 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: 3.241 $\pm$ 0.161  $\chi^2$ /NDF:134.9/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

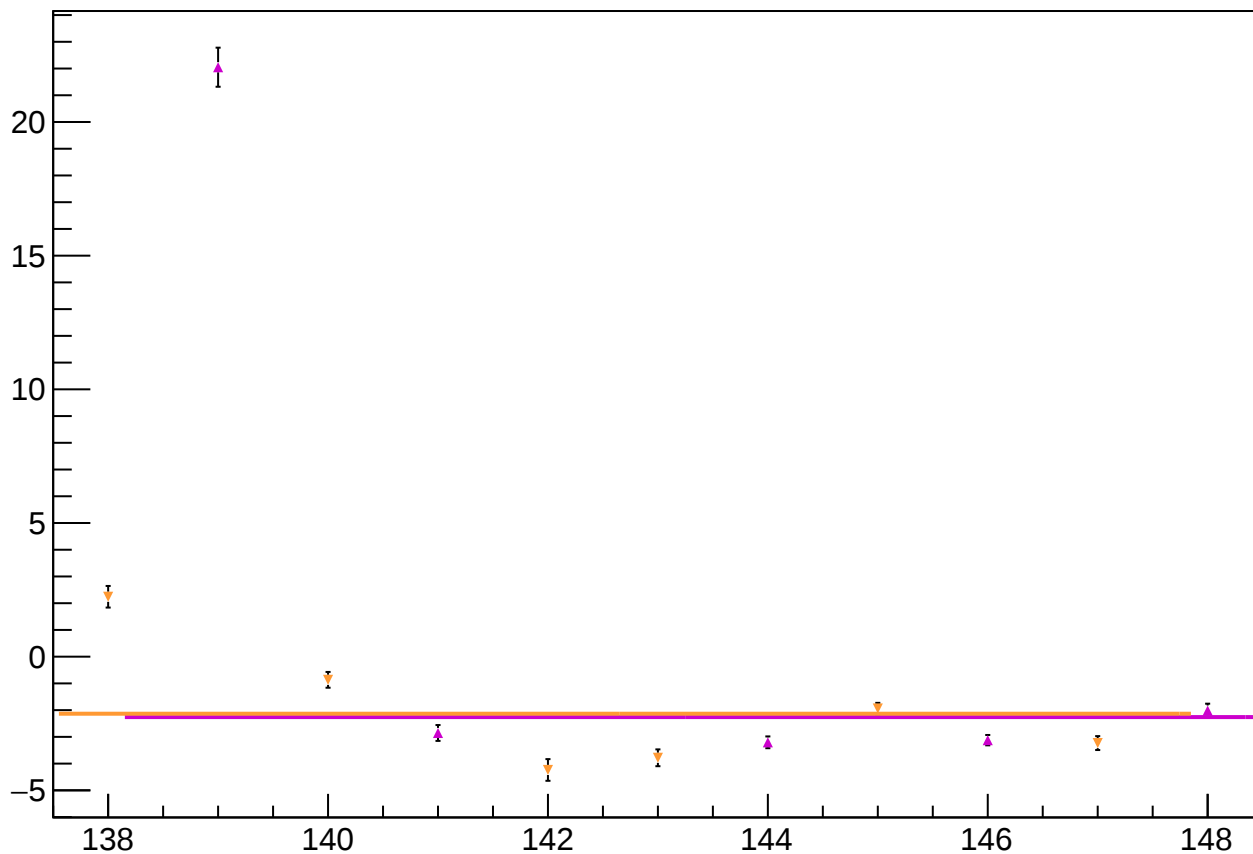
Left In: 2.380 $\pm$ 0.164  $\chi^2$ /NDF:298.8/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.818 $\pm$ 0.115  $\chi^2$ /NDF: 447.7/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2.134+/-0.119  $\chi^2/\text{NDF}$ : 208.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

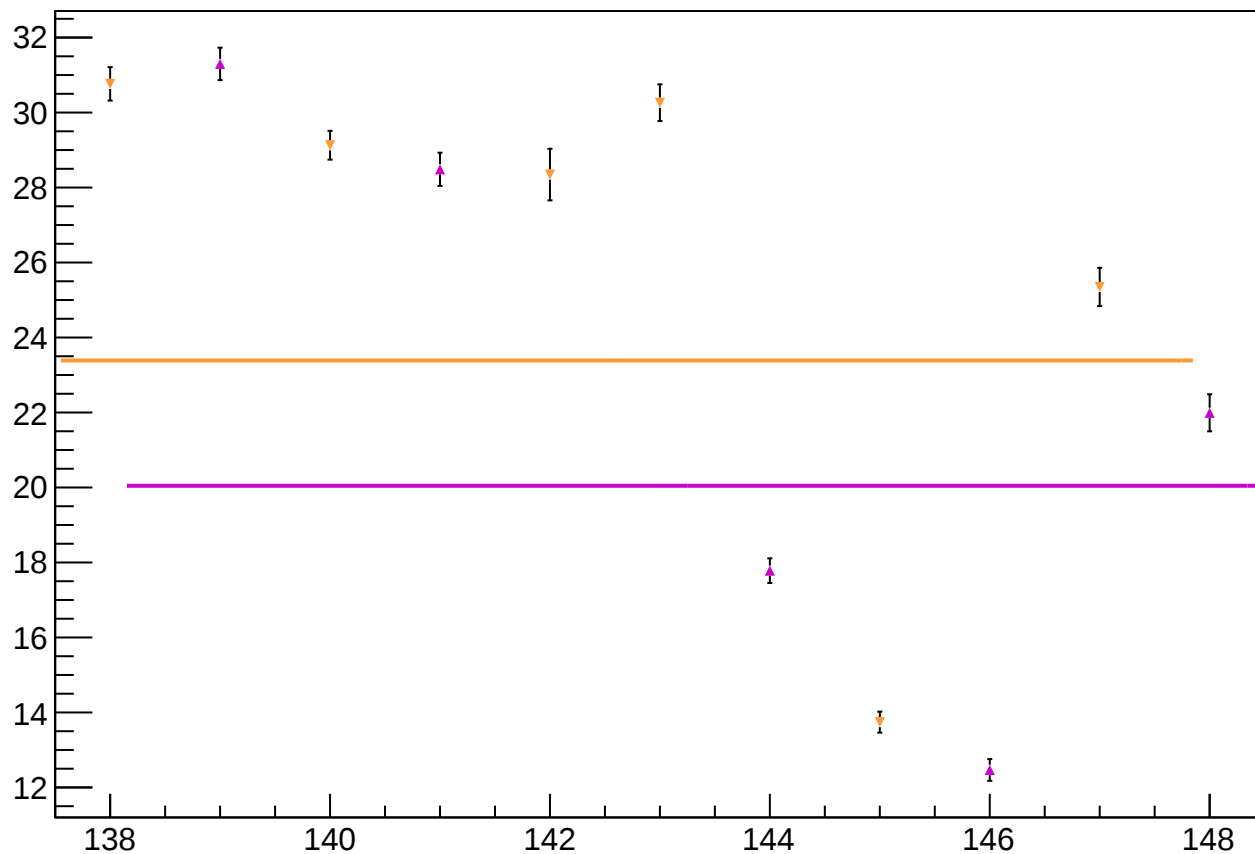
Left In: -2.260+/-0.115  $\chi^2/\text{NDF}$ : 1148.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.199+/-0.083  $\chi^2/\text{NDF}$ : 1358.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 23.388+/-0.170  $\chi^2/\text{NDF}$ :1945.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

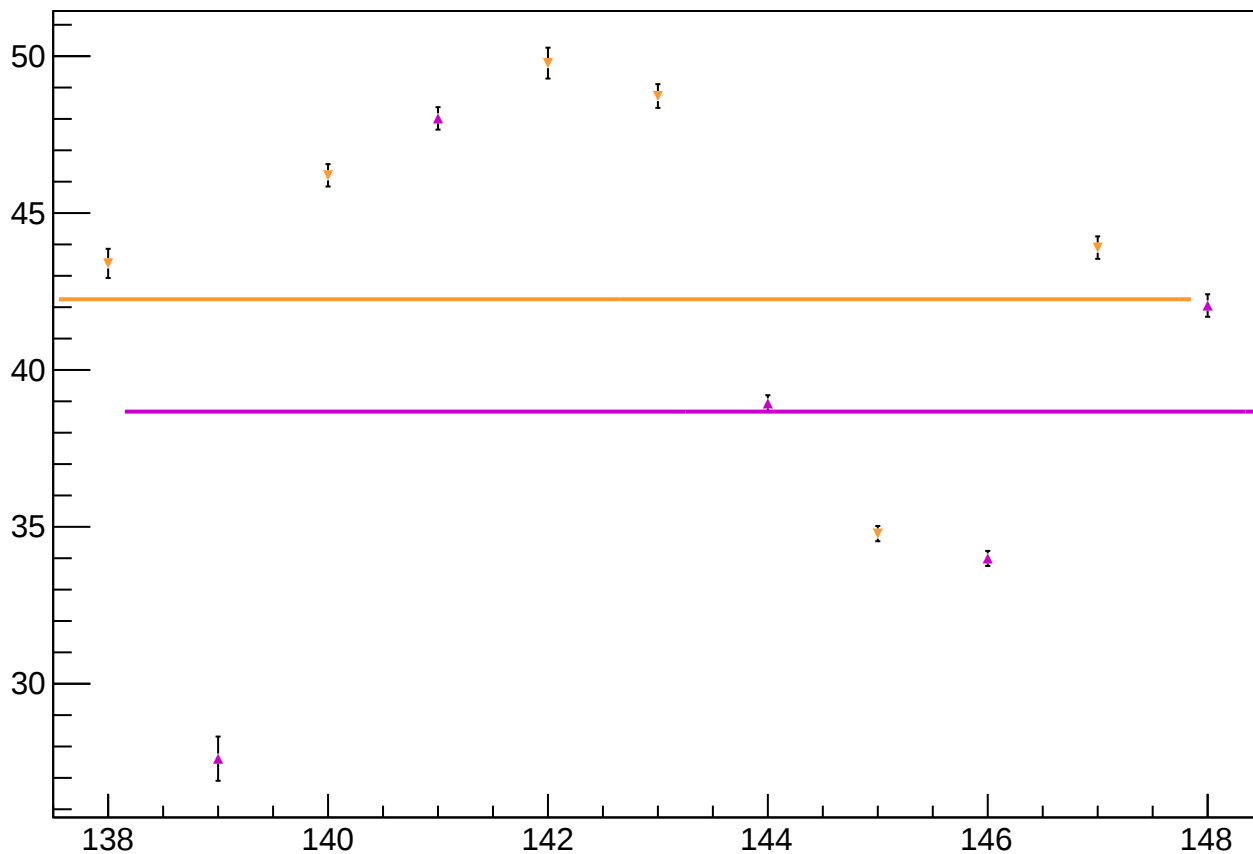
Left In: 20.047+/-0.168  $\chi^2/\text{NDF}$ :1783.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.694+/-0.119  $\chi^2/\text{NDF}$ : 3924.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

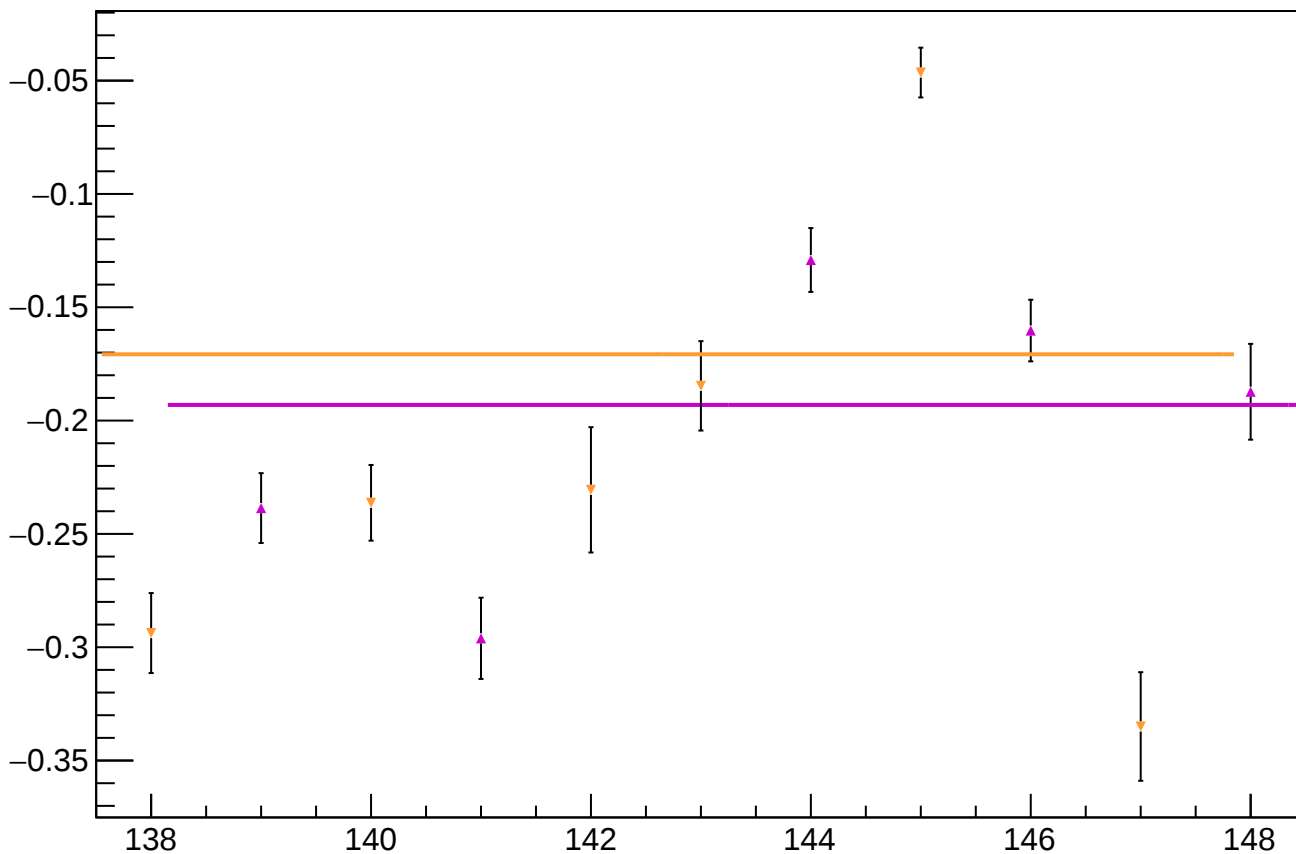
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 42.254 $\pm$ 0.144  $\chi^2$ /NDF:1614.0/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 38.672 $\pm$ 0.142  $\chi^2$ /NDF:1397.6/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 40.438 $\pm$ 0.101  $\chi^2$ /NDF: 3325.1/10  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

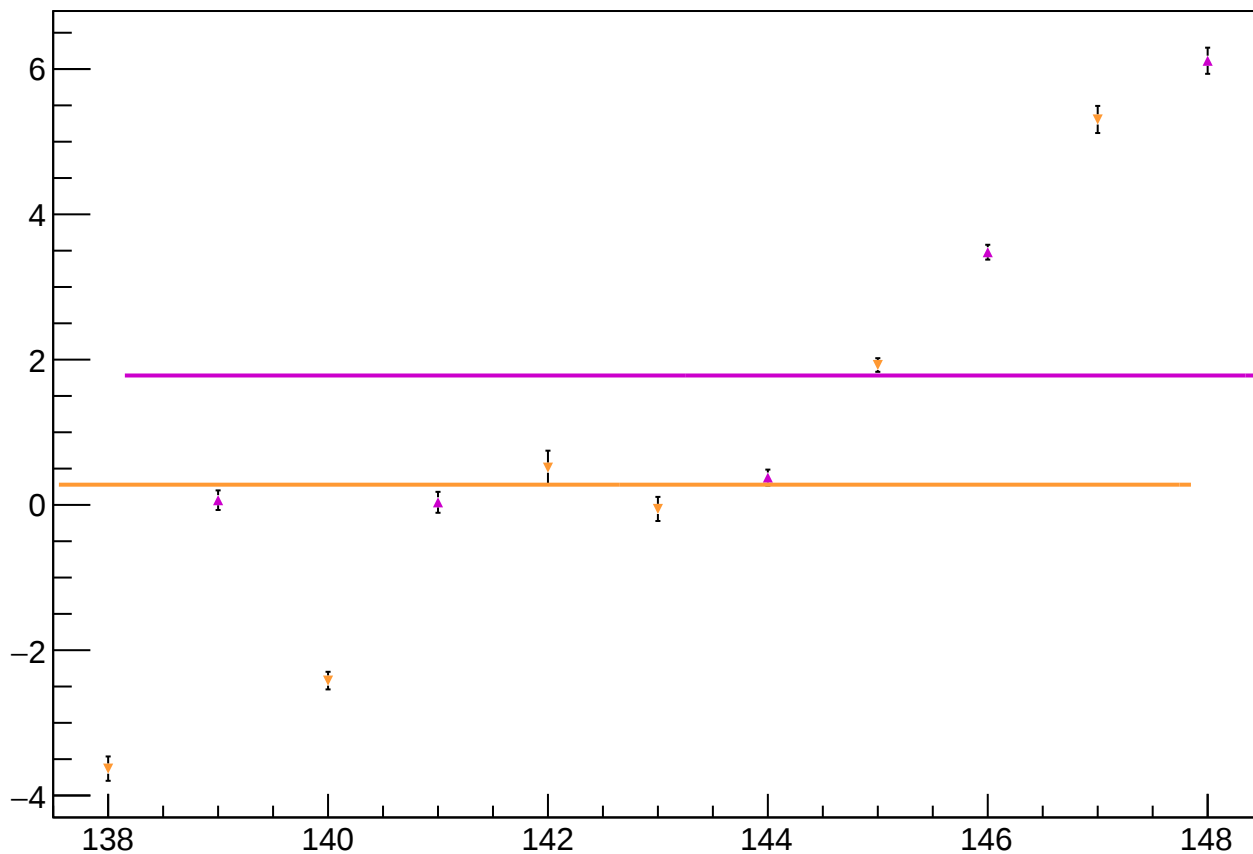
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.171 $\pm$ 0.007  $\chi^2$ /NDF:244.2/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.193 $\pm$ 0.007  $\chi^2$ /NDF:68.2/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.182 $\pm$ 0.005  $\chi^2$ /NDF: 317.6/10  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

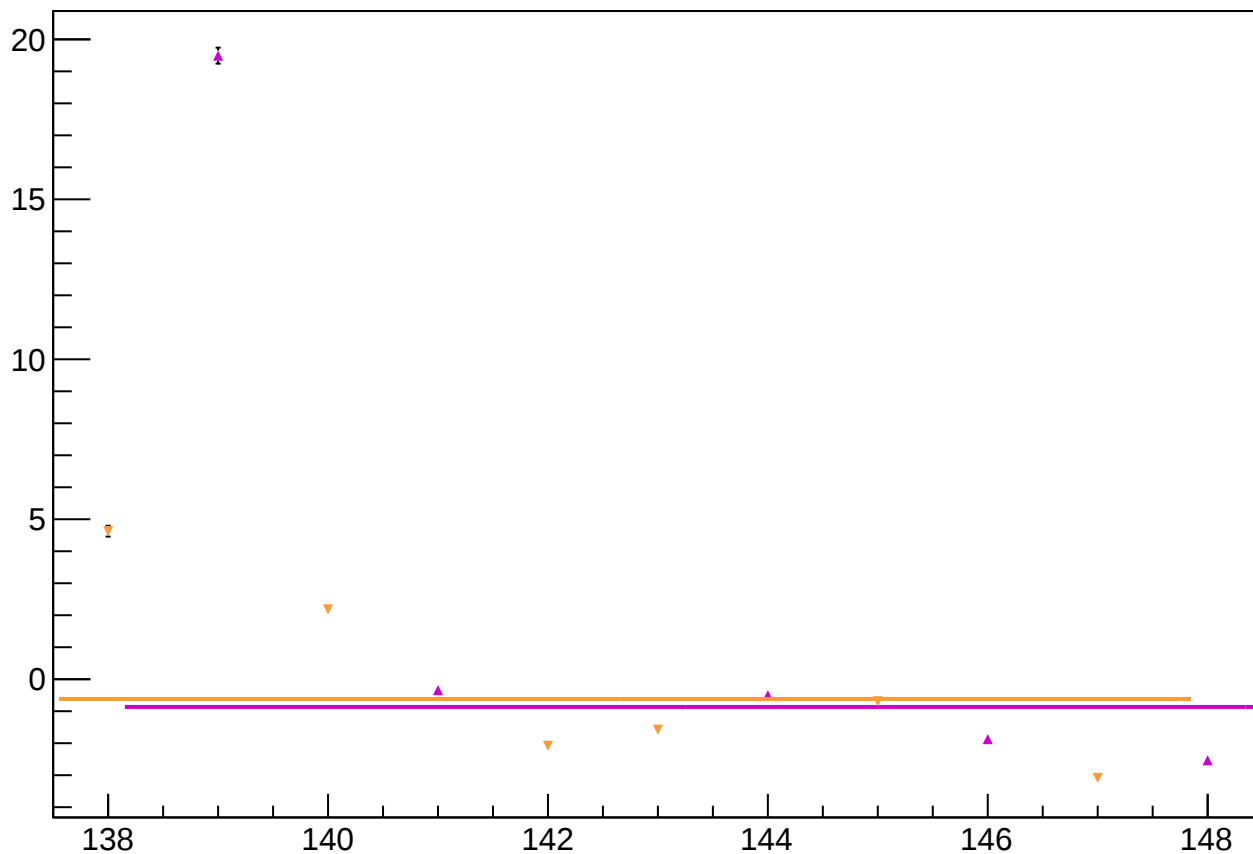
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.279 $\pm$ 0.058  $\chi^2$ /NDF:2078.6/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.782 $\pm$ 0.057  $\chi^2$ /NDF:1328.5/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.046 $\pm$ 0.040  $\chi^2$ /NDF: 3753.4/10  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.617+/-0.043  $\chi^2/\text{NDF}$ : 2675.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

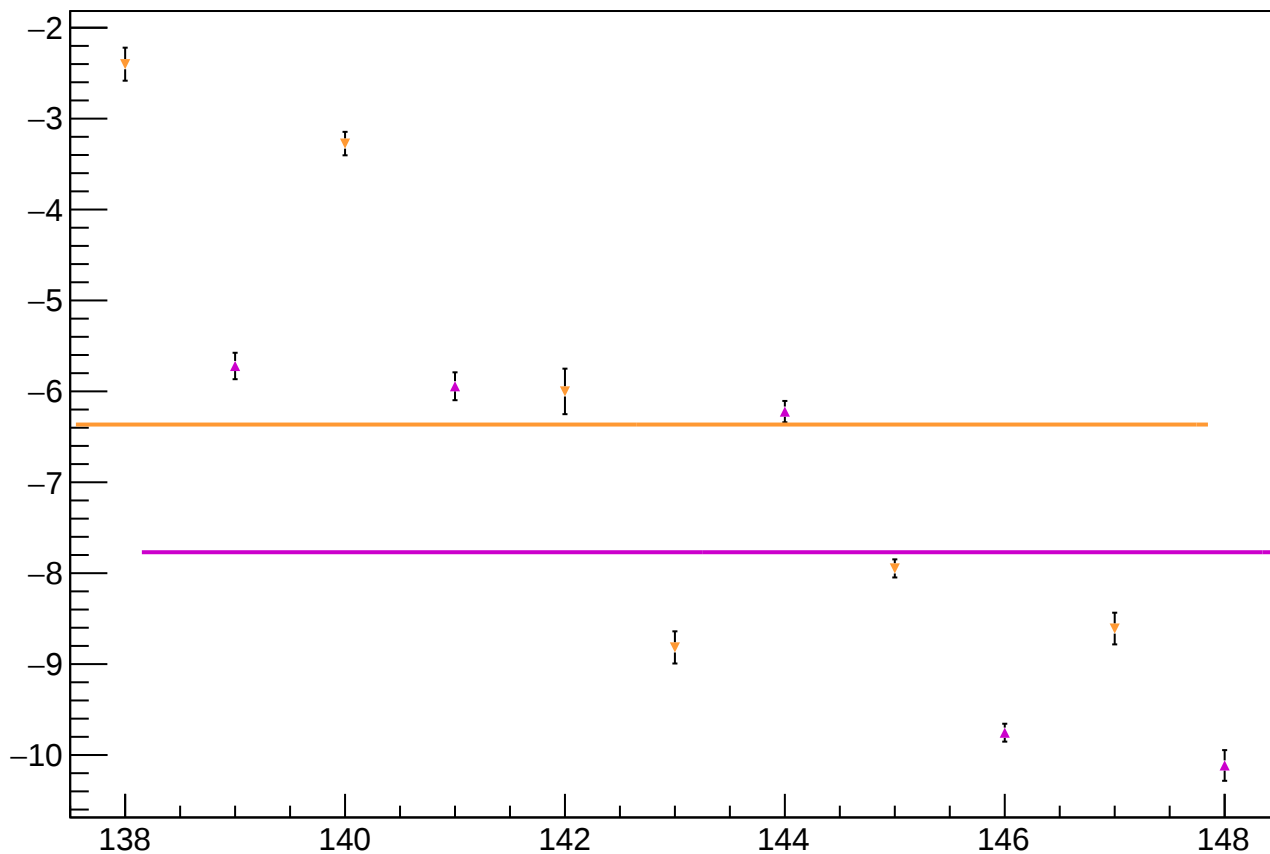
Left In: -0.867+/-0.040  $\chi^2/\text{NDF}$ : 7300.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.749+/-0.029  $\chi^2/\text{NDF}$ : 9993.6/10

- 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: -6.365+/-0.061  $\chi^2/\text{NDF}$ : 1662.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

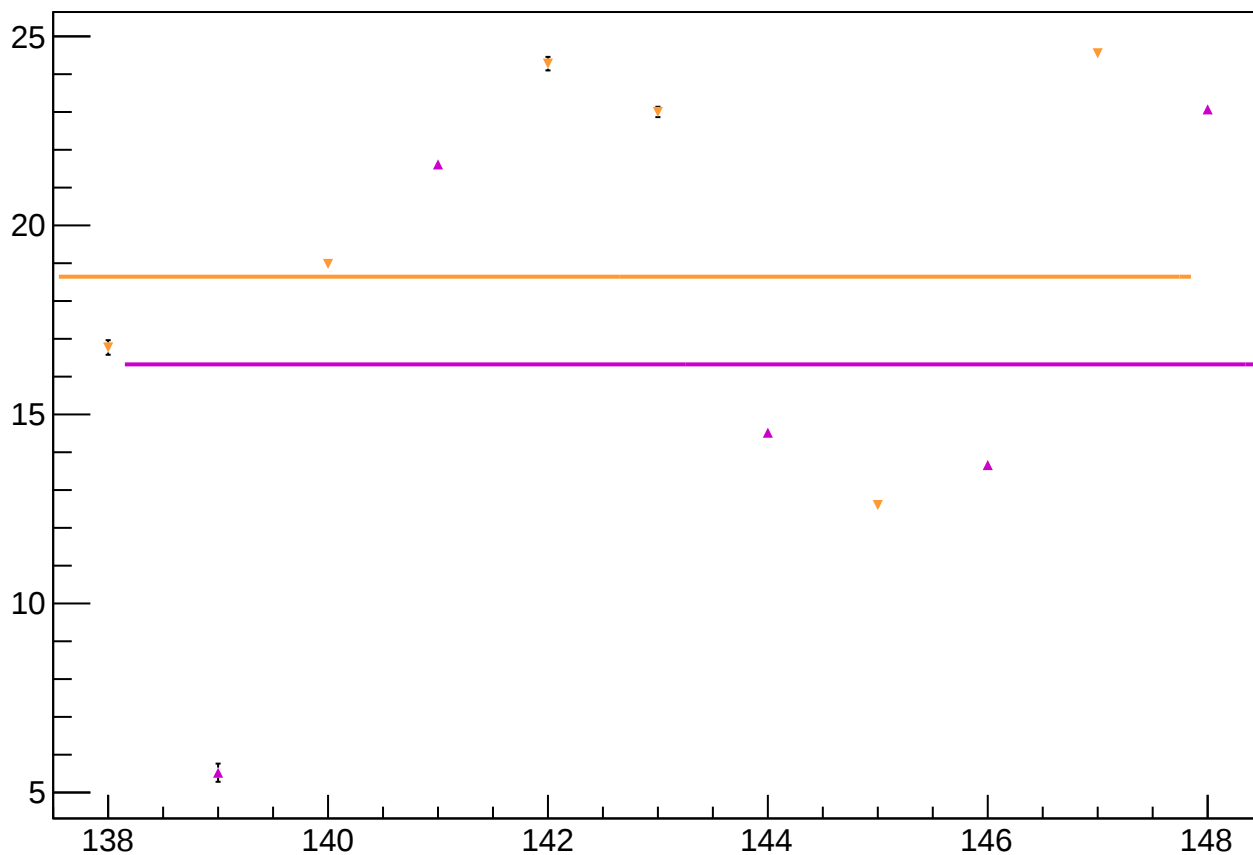
Left In: -7.769+/-0.058  $\chi^2/\text{NDF}$ : 1113.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.103+/-0.042  $\chi^2/\text{NDF}$ : 3057.5/10

- 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: 18.644+/-0.052  $\chi^2/\text{NDF}$ : 9115.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

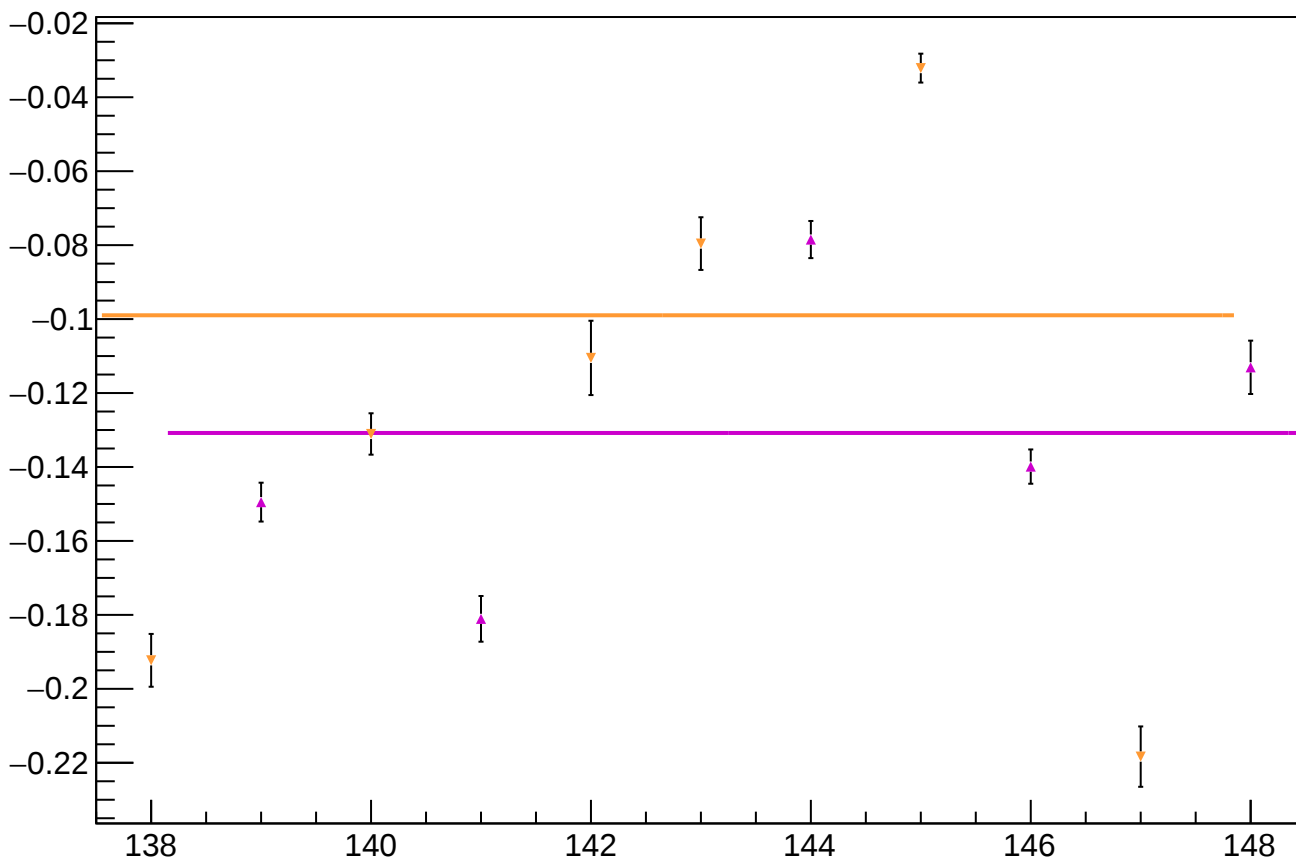
Left In: 16.324+/-0.049  $\chi^2/\text{NDF}$ : 8261.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.429+/-0.036  $\chi^2/\text{NDF}$ : 18432.6/10

- 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: -0.099 $\pm$ 0.002  $\chi^2$ /NDF: 718.8/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

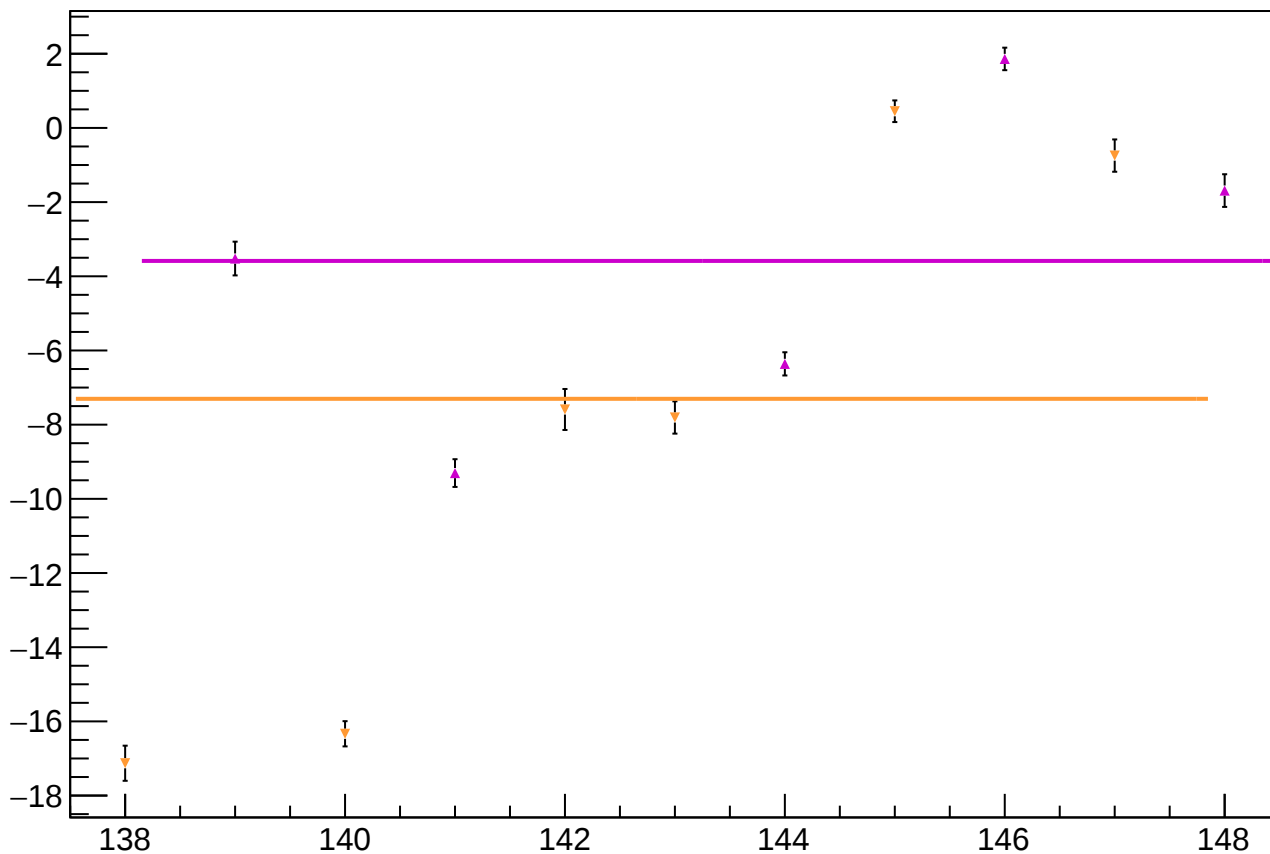
Left In: -0.131 $\pm$ 0.002  $\chi^2$ /NDF: 197.3/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.115 $\pm$ 0.002  $\chi^2$ /NDF: 999.5/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

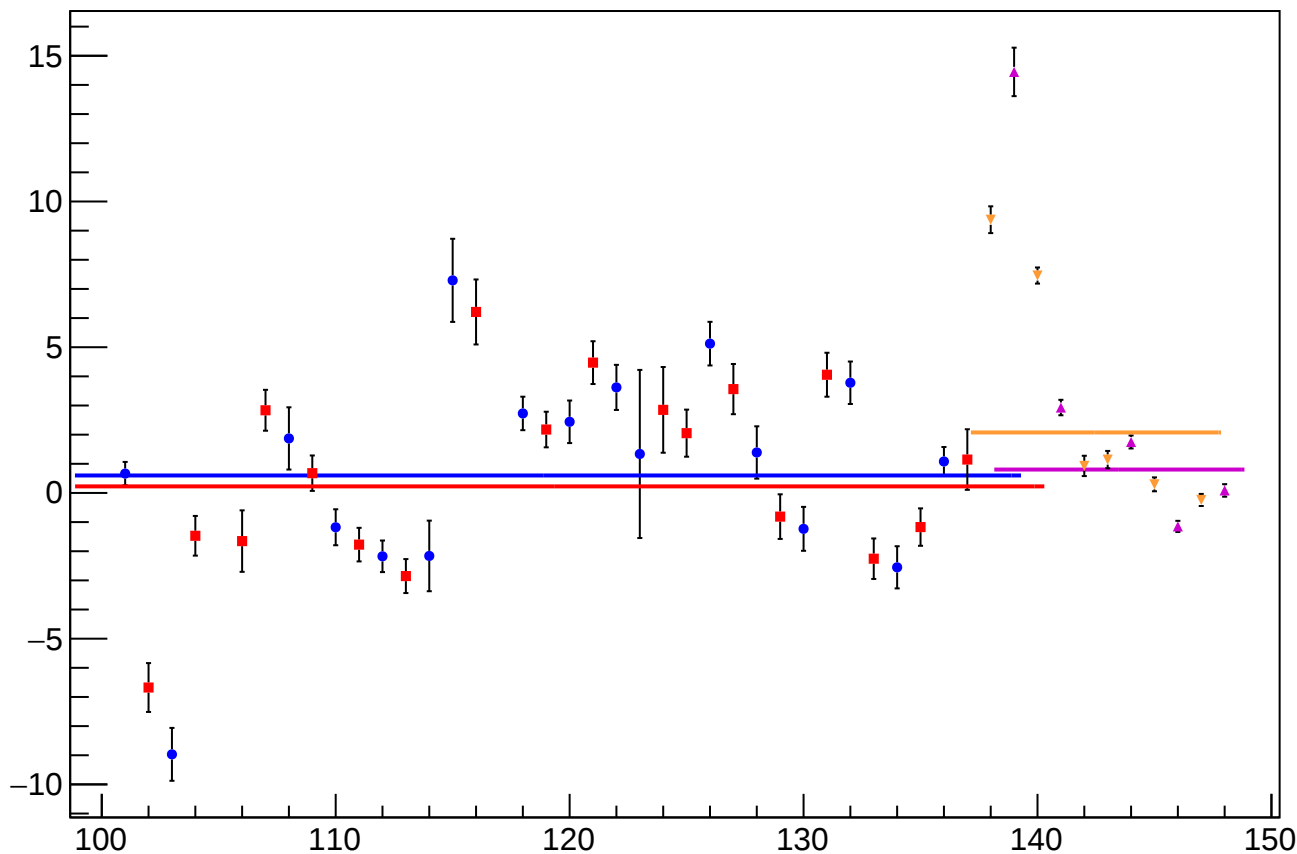
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.303+/-0.161  $\chi^2/\text{NDF}$ : 2069.4/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.586+/-0.162  $\chi^2/\text{NDF}$ : 653.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.455+/-0.114  $\chi^2/\text{NDF}$ : 2988.5/10  
 - 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:  $2.076 \pm 0.113$   $\chi^2/\text{NDF}$ : 833.4/5

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

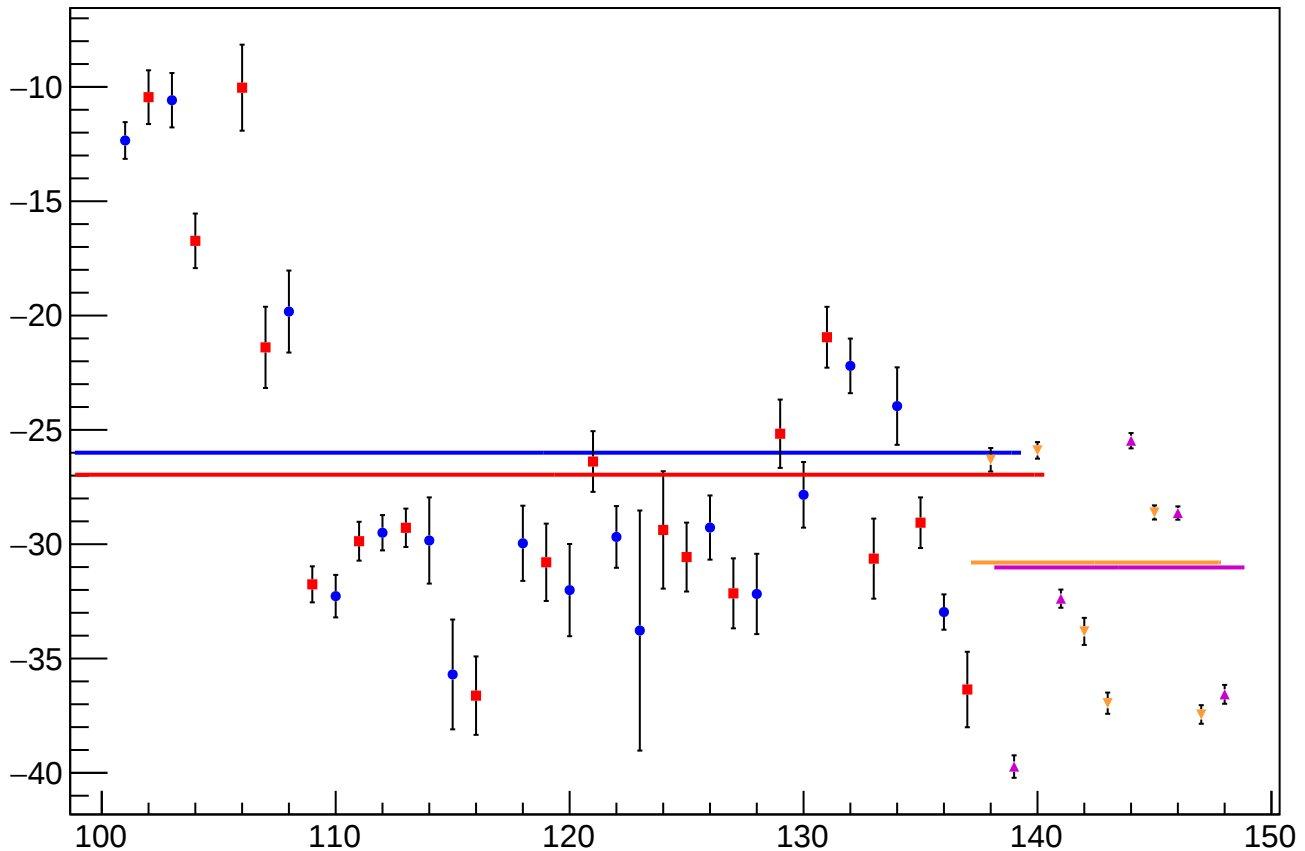
Left In:  $0.803 \pm 0.109$   $\chi^2/\text{NDF}$ : 466.9/4

+ sign  $1.620 \pm 0.094$   $\chi^2/\text{NDF}$ : 1178.0/22

All:  $1.122 \pm 0.066$   $\chi^2/\text{NDF}$ : 1981.1/45

- sign  $0.642 \pm 0.092$   $\chi^2/\text{NDF}$ : 747.9/22

# 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:  $-30.800 \pm 0.168$   $\chi^2/\text{NDF}$ : 779.0/5

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

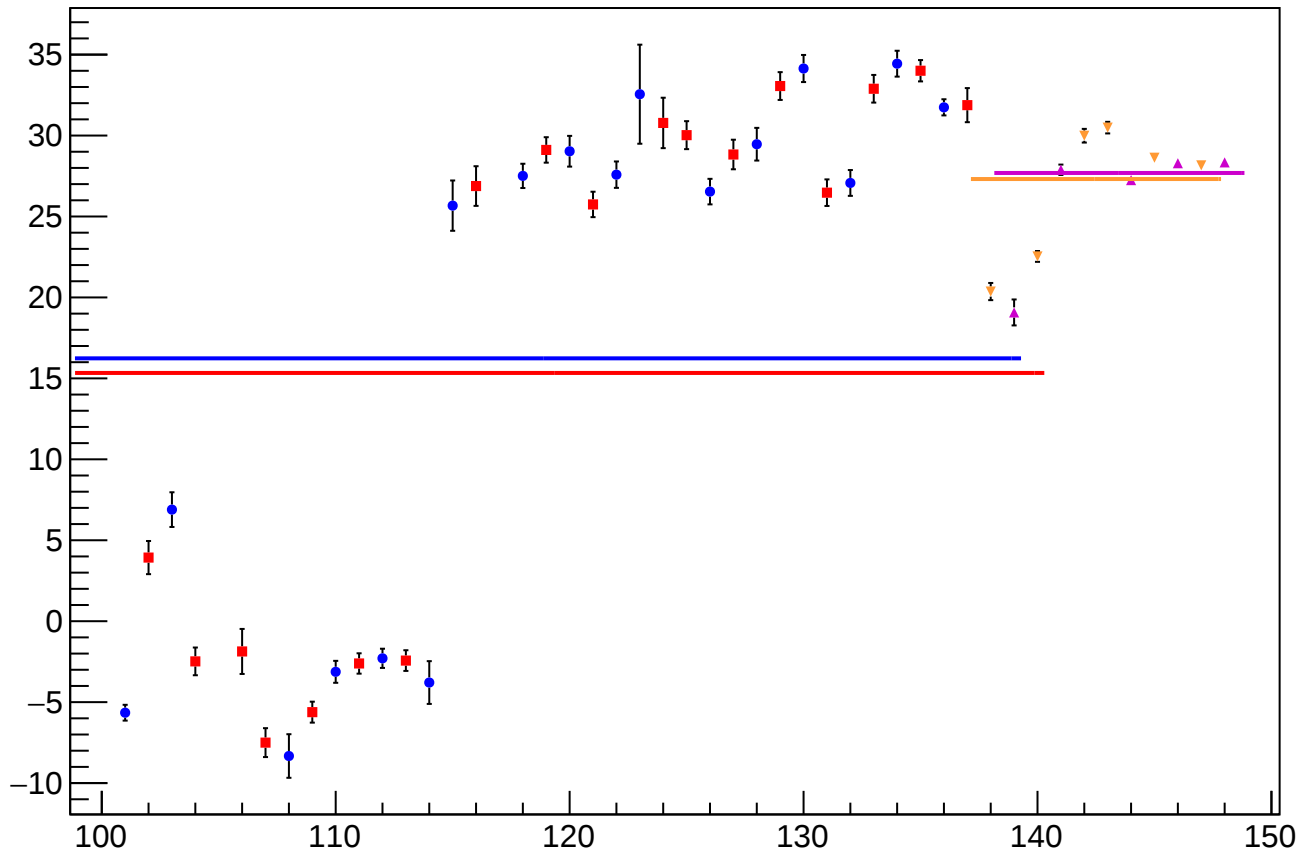
Left In:  $-31.017 \pm 0.164$   $\chi^2/\text{NDF}$ : 846.5/4

+ sign  $-29.654 \pm 0.147$   $\chi^2/\text{NDF}$ : 1666.5/22

All:  $-29.867 \pm 0.103$   $\chi^2/\text{NDF}$ : 3194.4/45

- sign  $-30.071 \pm 0.144$   $\chi^2/\text{NDF}$ : 1523.8/22

# 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: 27.314 $\pm$ 0.139  $\chi^2$ /NDF:527.1/5

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

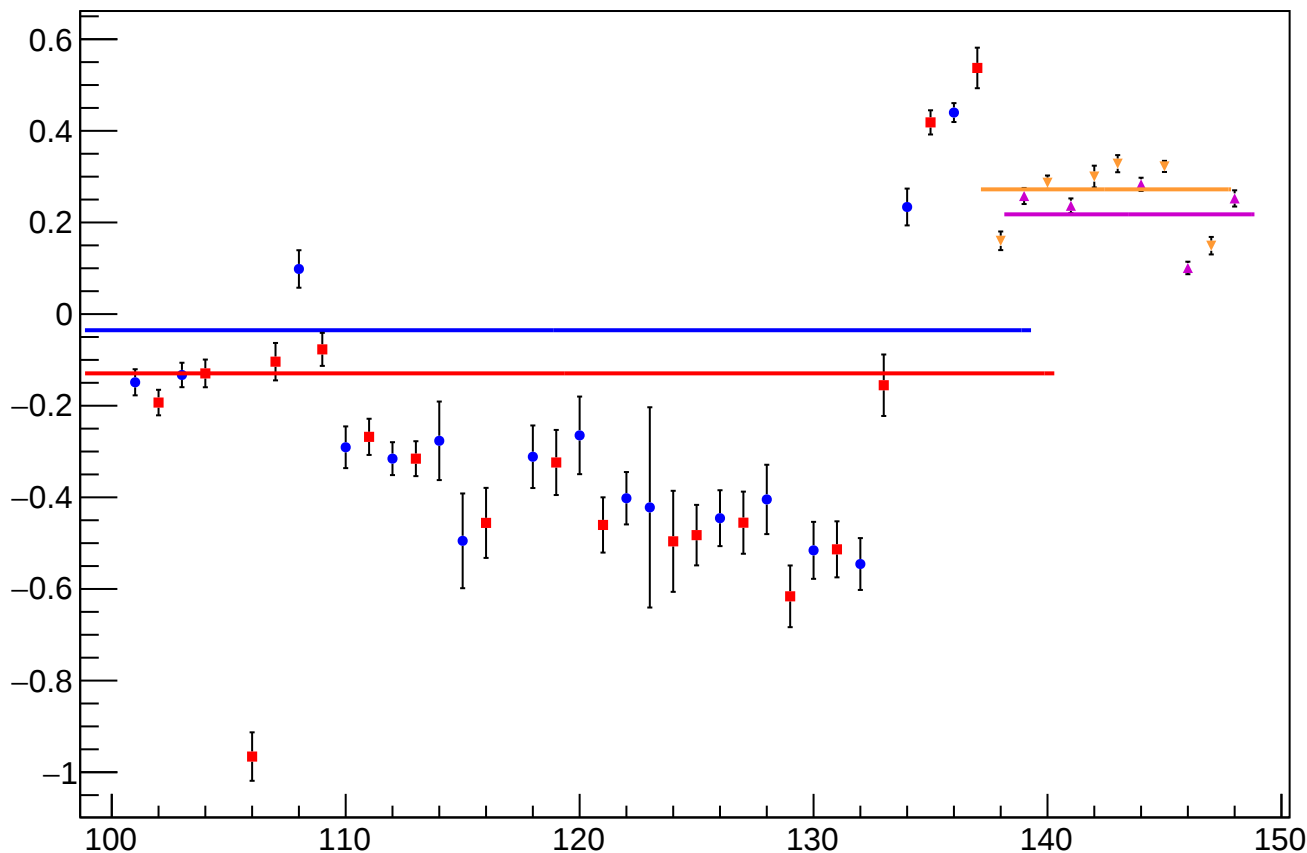
Left In: 27.689 $\pm$ 0.136  $\chi^2$ /NDF:129.8/4

+ sign 23.474 $\pm$ 0.113  $\chi^2$ /NDF: 10295.6/22

All: 23.595 $\pm$ 0.079  $\chi^2$ /NDF: 20350.4/45

- sign 23.714 $\pm$ 0.112  $\chi^2$ /NDF: 10052.5/22

# 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:  $0.272 \pm 0.007$   $\chi^2/\text{NDF}: 100.2/5$

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}: 1161.5/17$

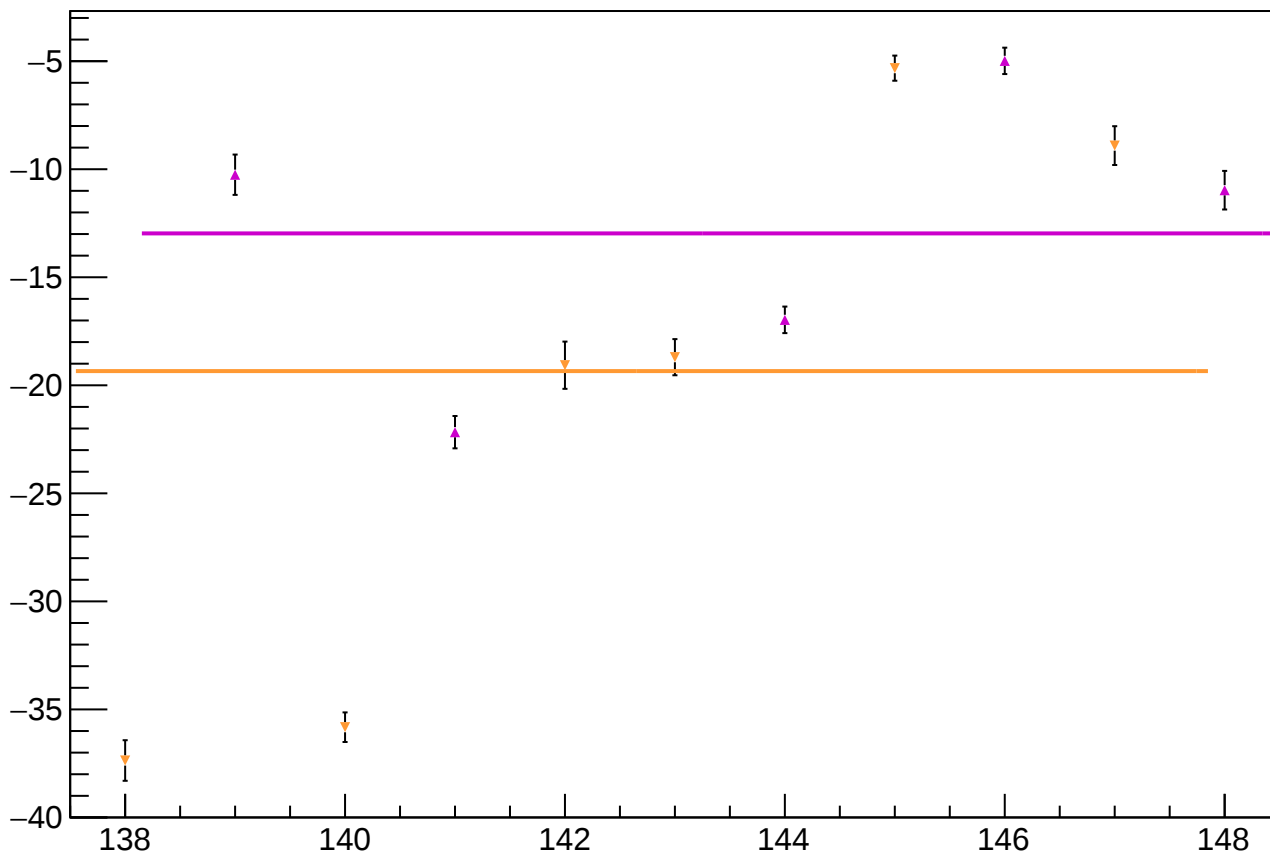
Left In:  $0.218 \pm 0.007$   $\chi^2/\text{NDF}: 104.2/4$

+ sign  $0.176 \pm 0.006$   $\chi^2/\text{NDF}: 1723.5/22$

All:  $0.143 \pm 0.004$   $\chi^2/\text{NDF}: 3823.6/45$

- sign  $0.110 \pm 0.006$   $\chi^2/\text{NDF}: 2034.0/22$

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: -19.343+/-0.321  $\chi^2/\text{NDF}$ : 1664.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

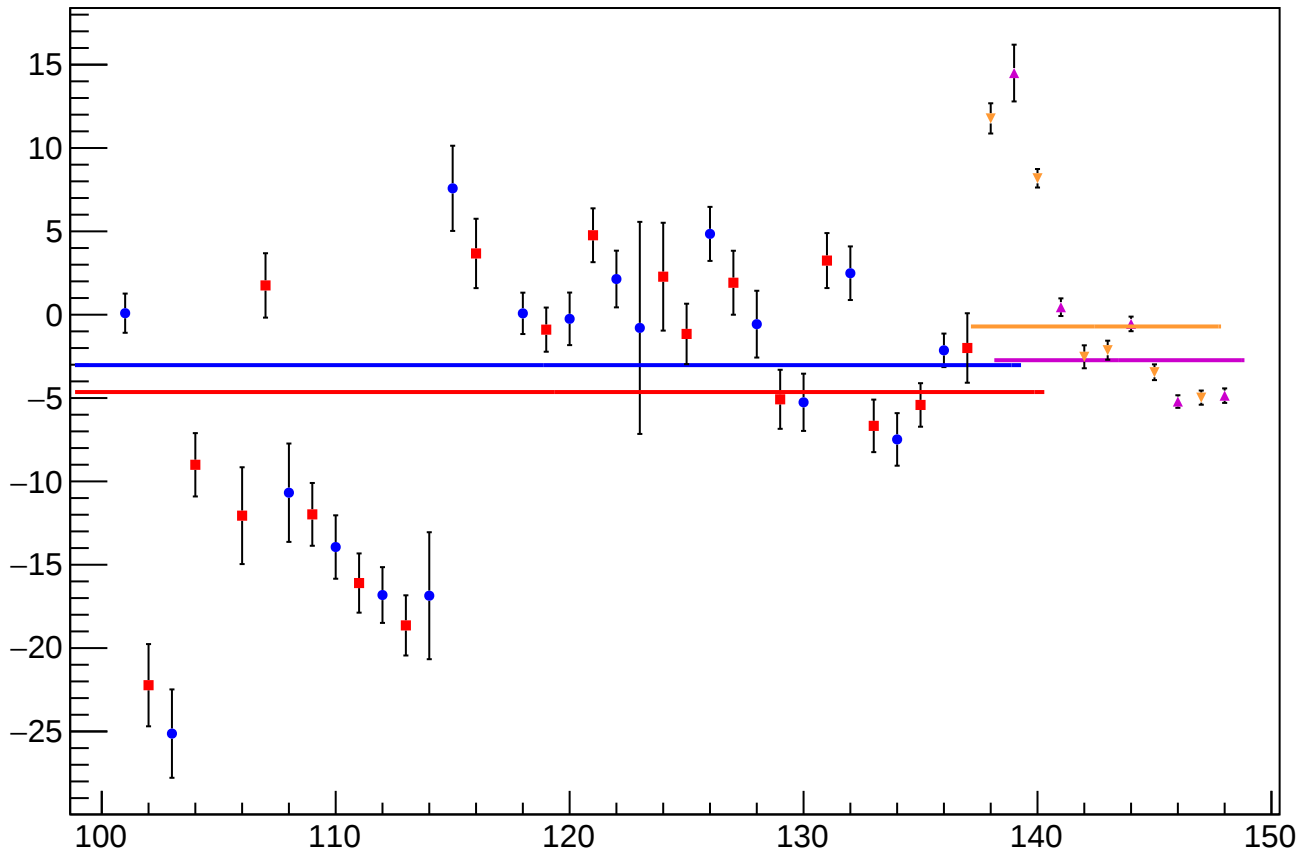
Left In: -12.970+/-0.324  $\chi^2/\text{NDF}$ : 378.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.191+/-0.228  $\chi^2/\text{NDF}$ : 2237.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.025 \pm 0.408$   $\chi^2/\text{NDF}$ : 280.6/16

Left Out:  $-0.706 \pm 0.226$   $\chi^2/\text{NDF}$ : 593.4/5

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

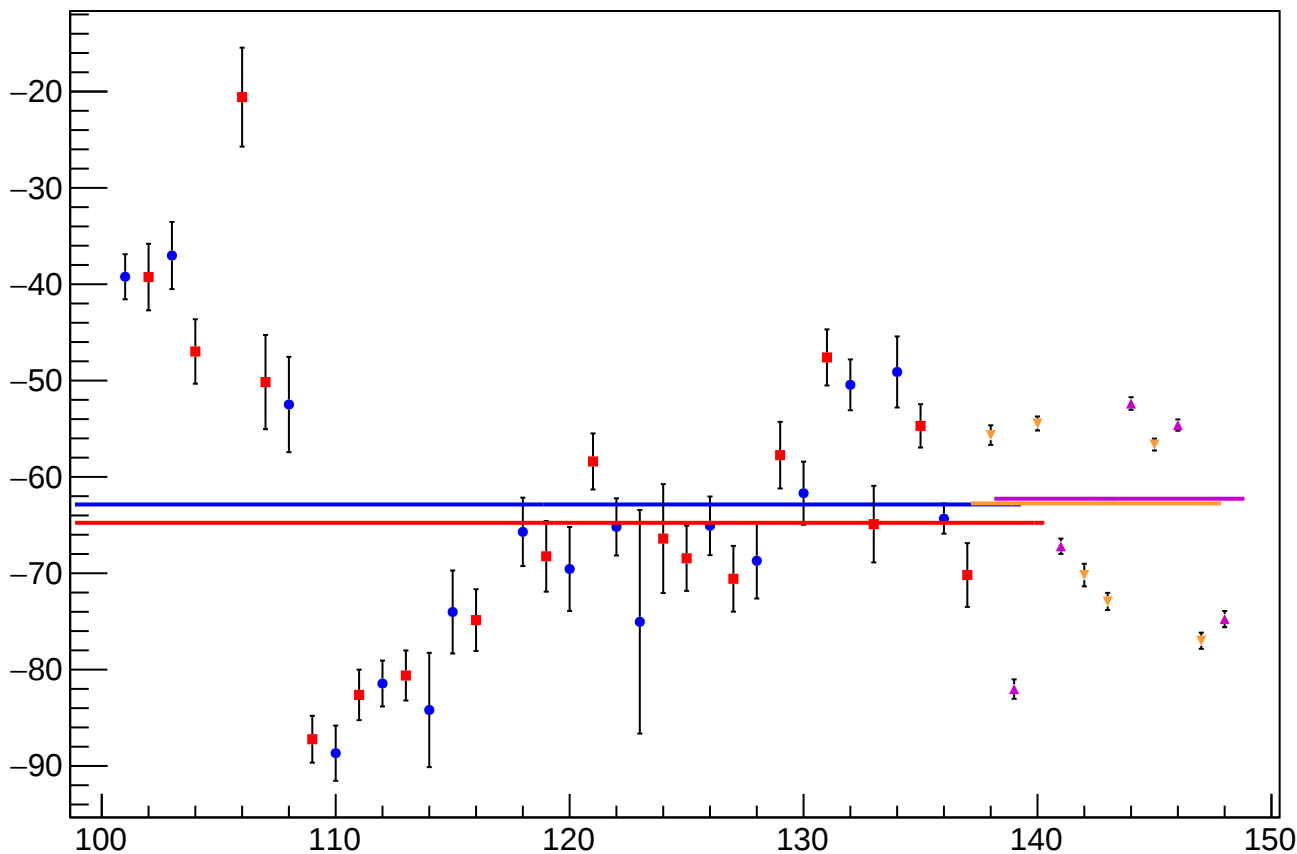
Left In:  $-2.730 \pm 0.216$   $\chi^2/\text{NDF}$ : 230.2/4

+ sign  $-1.250 \pm 0.198$   $\chi^2/\text{NDF}$ : 898.7/22

All:  $-2.208 \pm 0.138$   $\chi^2/\text{NDF}$ : 1485.6/45

- sign  $-3.120 \pm 0.193$   $\chi^2/\text{NDF}$ : 541.0/22

# 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:  $-62.750 \pm 0.336$   $\chi^2/\text{NDF}$ : 735.4/5

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}$ : 416.1/17

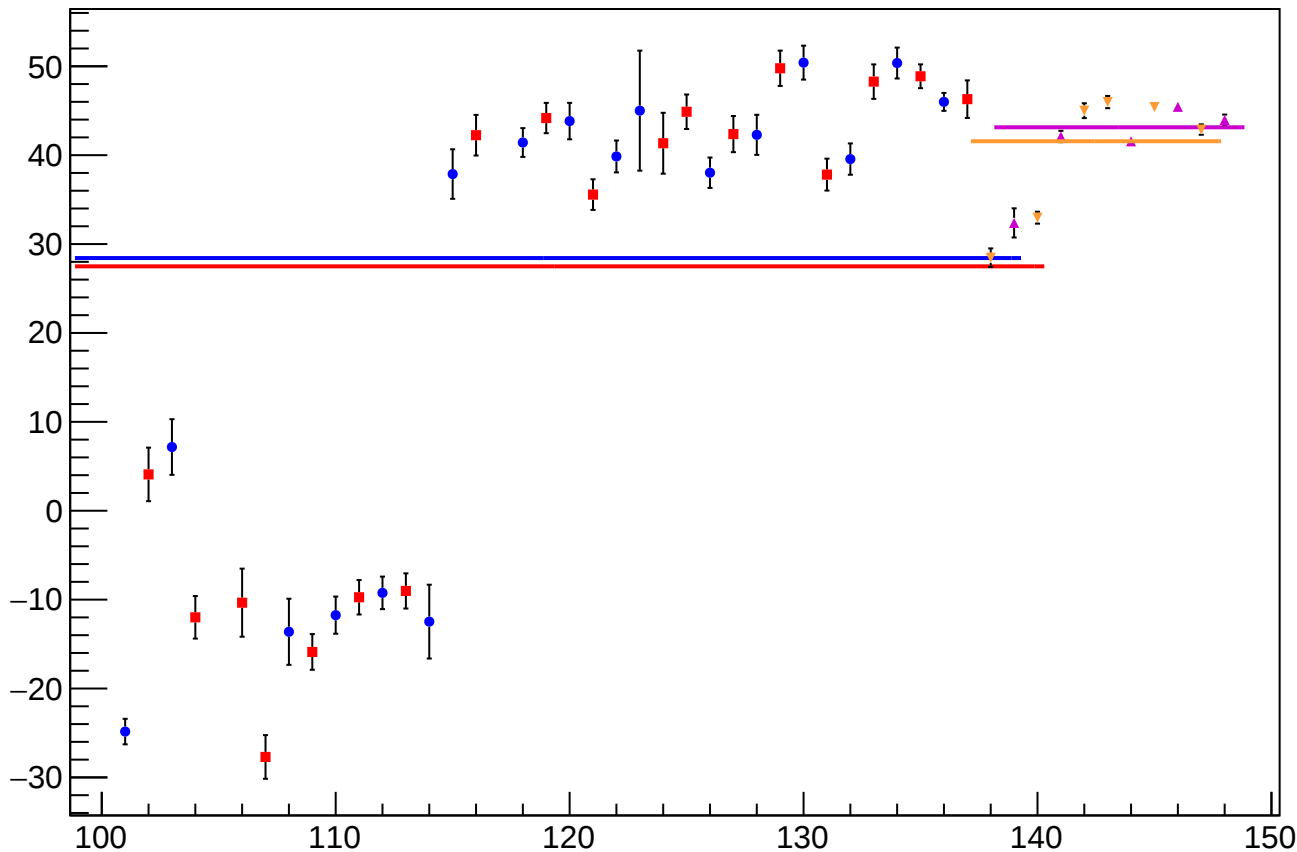
Left In:  $-62.262 \pm 0.330$   $\chi^2/\text{NDF}$ : 1040.7/4

+ sign  $-62.768 \pm 0.306$   $\chi^2/\text{NDF}$ : 1103.1/22

All:  $-62.715 \pm 0.215$   $\chi^2/\text{NDF}$ : 2569.2/45

- sign  $-62.664 \pm 0.302$   $\chi^2/\text{NDF}$ : 1466.0/22

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 28.426 $\pm$ 0.458  $\chi^2$ /NDF: 3322.4/16

Left Out: 41.568 $\pm$ 0.278  $\chi^2$ /NDF: 433.1/5

Right Out: 27.493 $\pm$ 0.479  $\chi^2$ /NDF: 3027.8/17

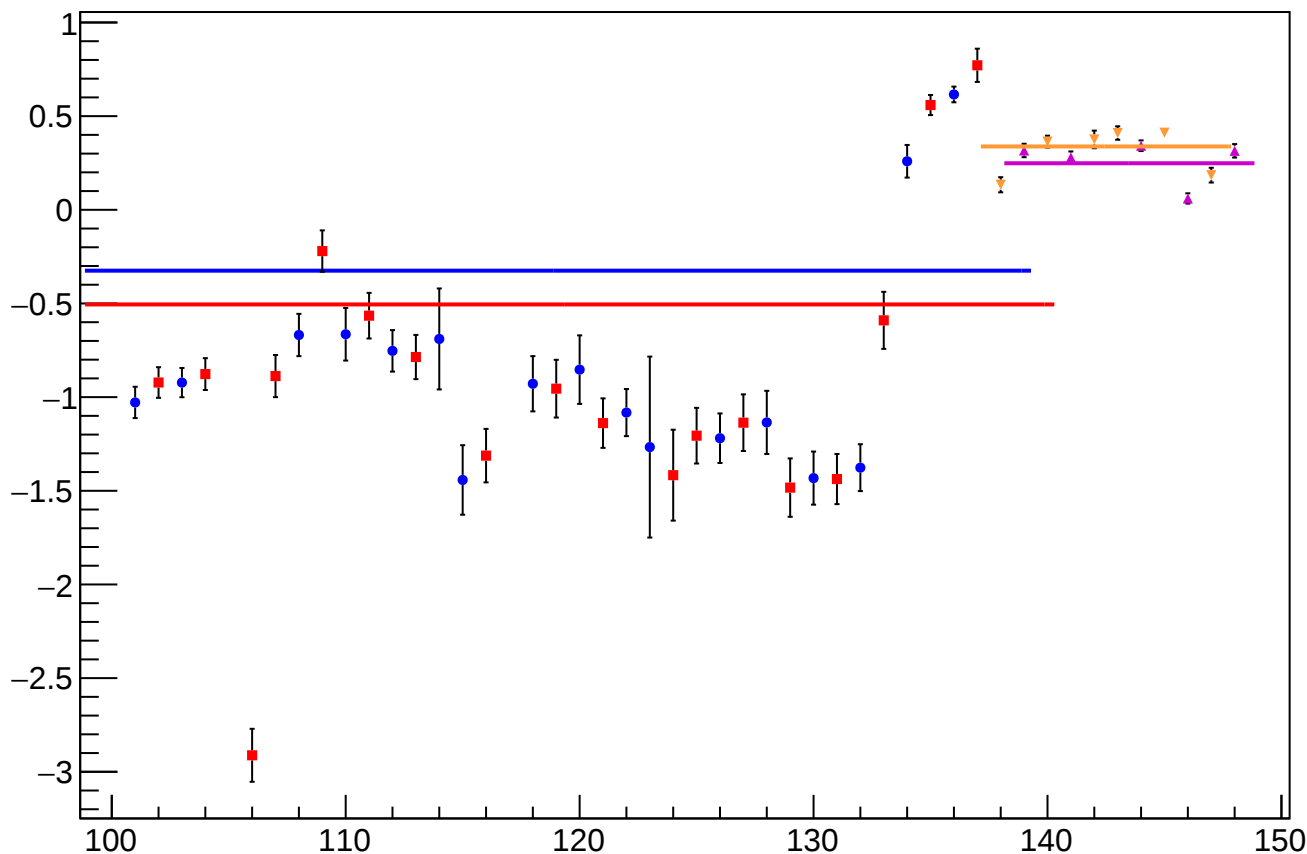
Left In: 43.138 $\pm$ 0.271  $\chi^2$ /NDF: 80.1/4

+ sign 38.028 $\pm$ 0.238  $\chi^2$ /NDF: 4357.6/22

All: 38.694 $\pm$ 0.167  $\chi^2$ /NDF: 8290.4/45

- sign 39.349 $\pm$ 0.236  $\chi^2$ /NDF: 3917.2/22

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:  $0.338 \pm 0.014$   $\chi^2/\text{NDF}$ : 55.2/5

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

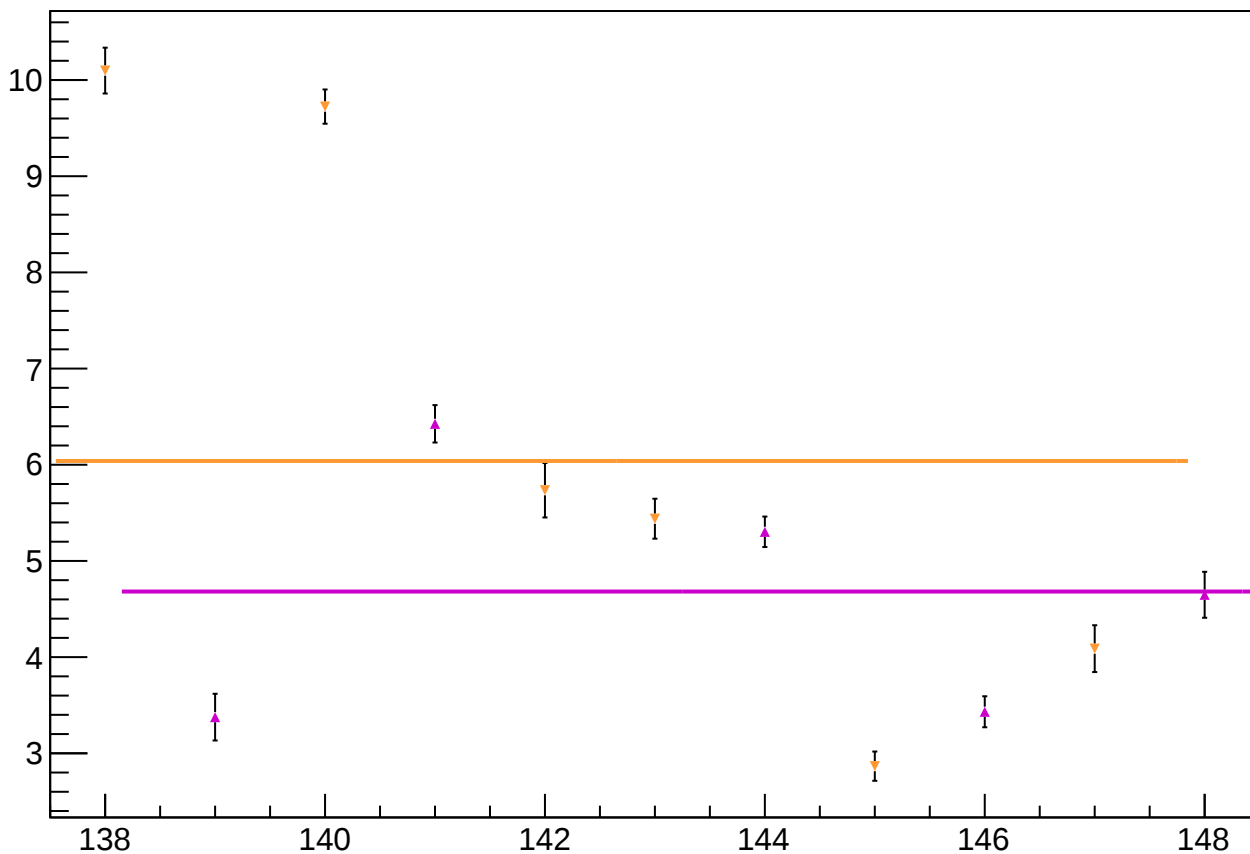
Left In:  $0.249 \pm 0.014$   $\chi^2/\text{NDF}$ : 65.7/4

+ sign  $0.181 \pm 0.012$   $\chi^2/\text{NDF}$ : 1606.9/22

All:  $0.129 \pm 0.009$   $\chi^2/\text{NDF}$ : 3532.5/45

- sign  $0.076 \pm 0.012$   $\chi^2/\text{NDF}$ : 1889.0/22

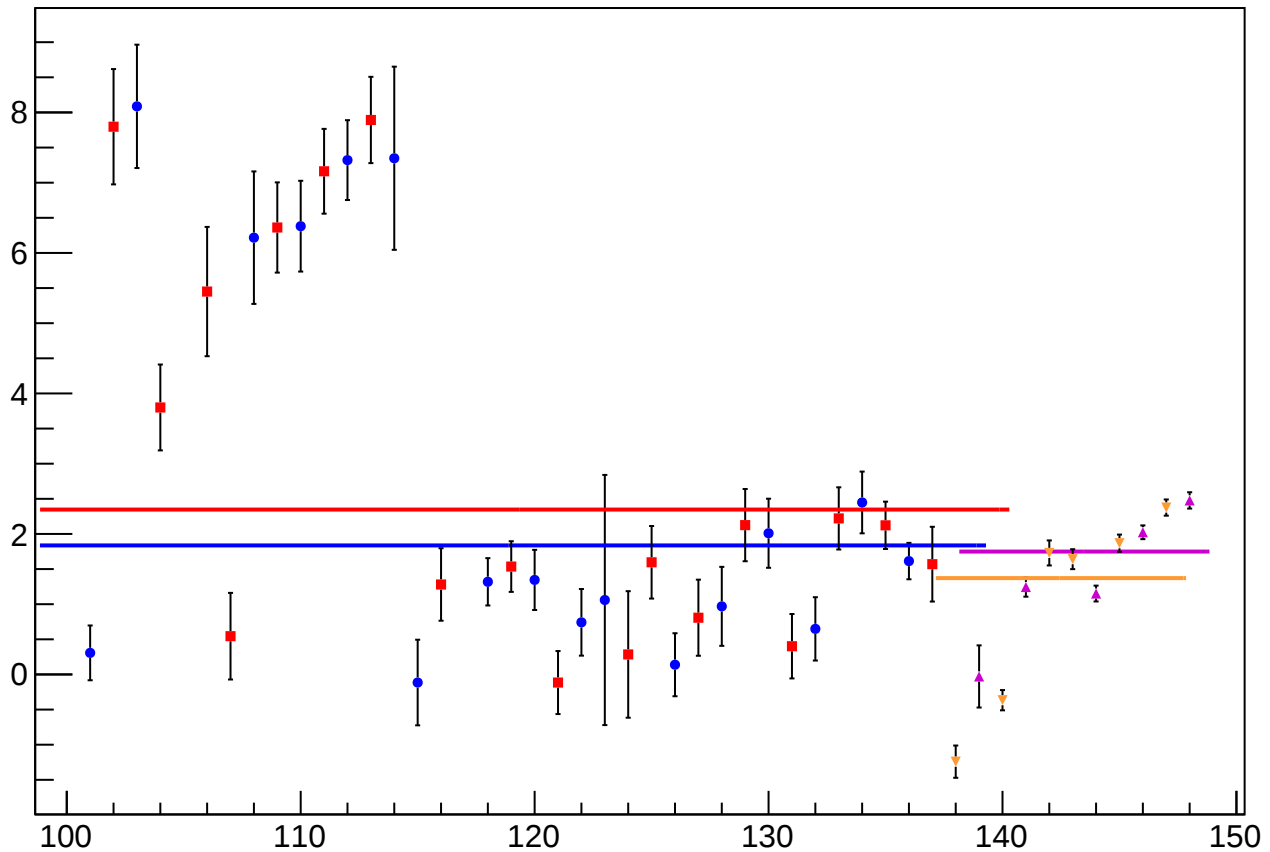
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.039+/-0.083  $\chi^2/\text{NDF}$ :1227.1/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.682+/-0.085  $\chi^2/\text{NDF}$ :184.9/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 5.374+/-0.059  $\chi^2/\text{NDF}$ : 1542.9/10  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.837 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $1.371 \pm 0.059$   $\chi^2/\text{NDF}$ : 374.5/5

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

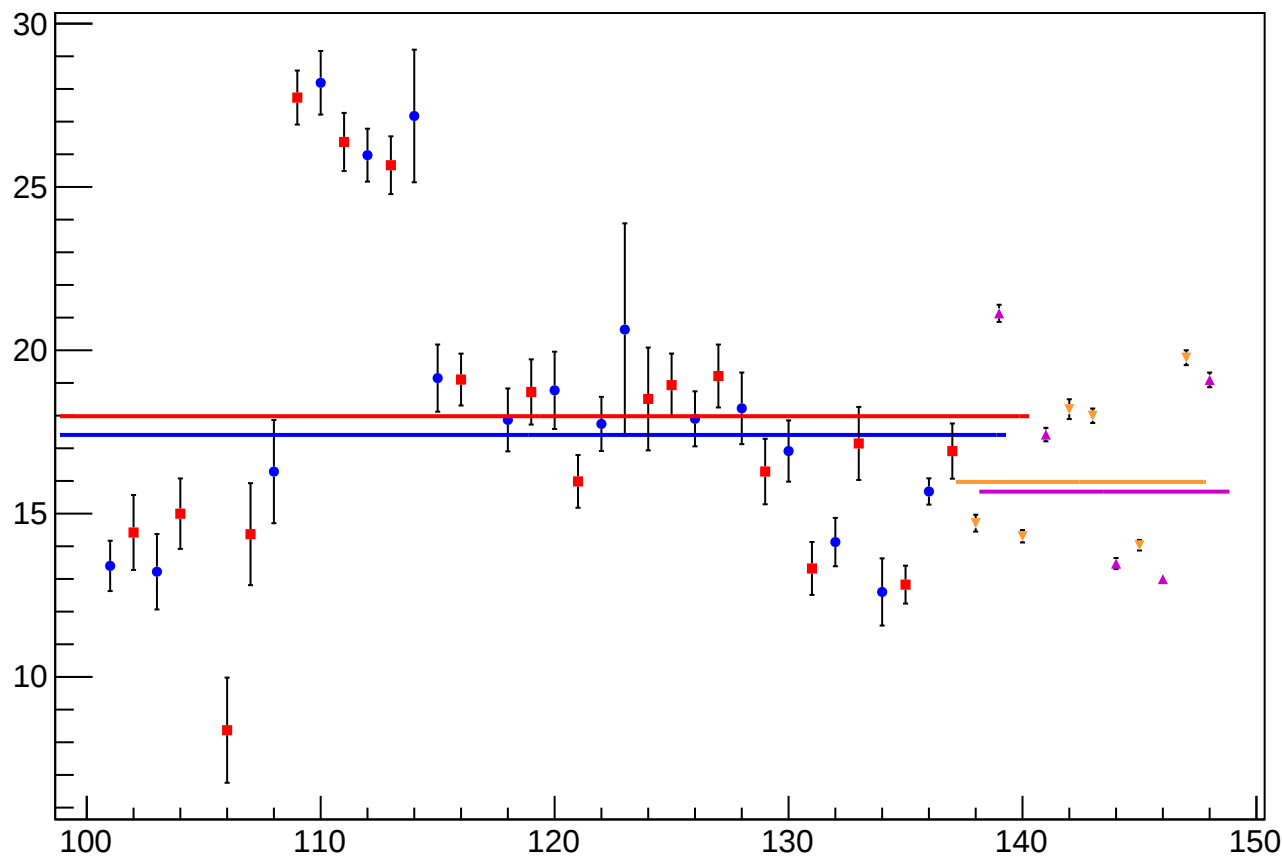
Left In:  $1.749 \pm 0.056$   $\chi^2/\text{NDF}$ : 104.9/4

+ sign  $1.466 \pm 0.052$   $\chi^2/\text{NDF}$ : 681.3/22

All:  $1.664 \pm 0.037$   $\chi^2/\text{NDF}$ : 1163.6/45

- sign  $1.853 \pm 0.051$   $\chi^2/\text{NDF}$ : 454.3/22

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: 15.970 $\pm$ 0.087  $\chi^2$ /NDF: 662.5/5

Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17

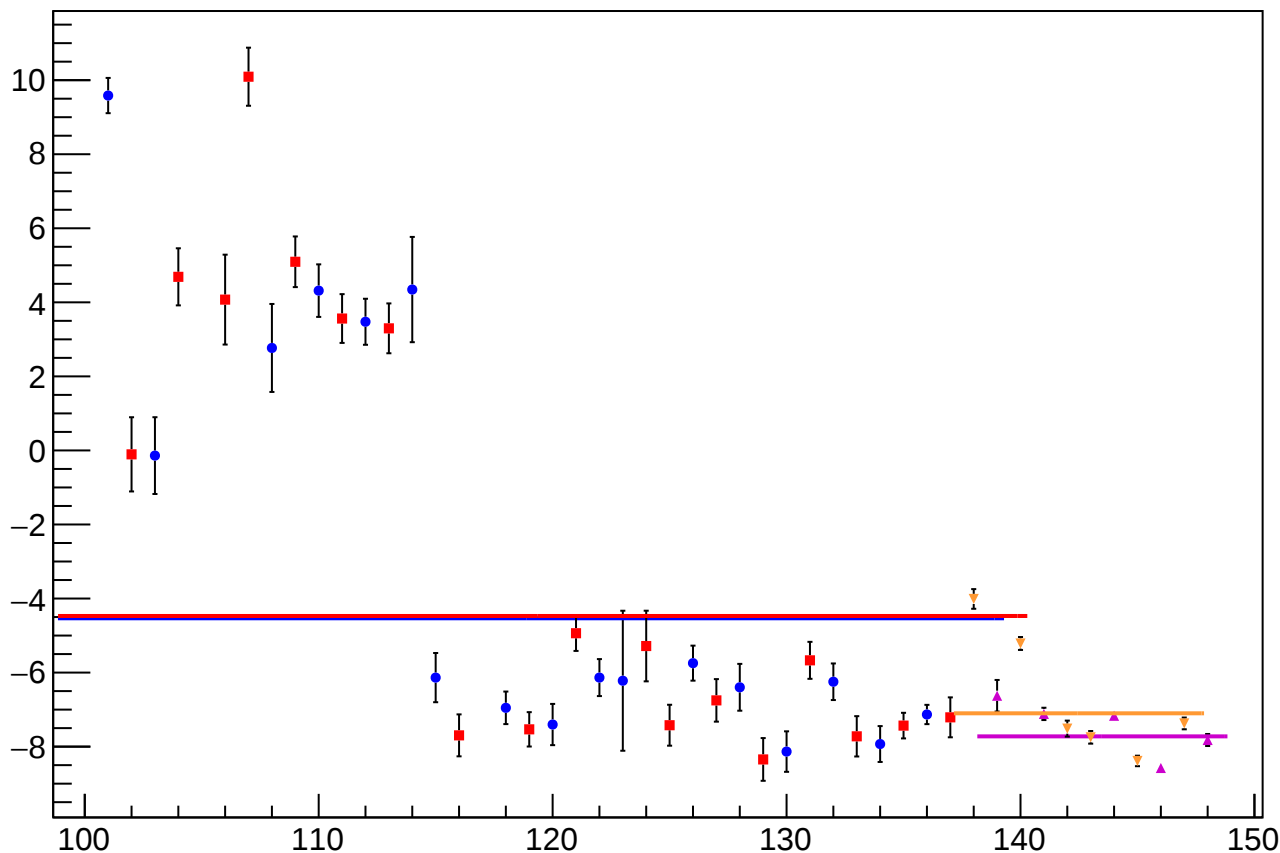
Left In: 15.673 $\pm$ 0.086  $\chi^2$ /NDF: 1205.3/4

+ sign 16.178 $\pm$ 0.081  $\chi^2$ /NDF: 1067.0/22

All: 16.079 $\pm$ 0.057  $\chi^2$ /NDF: 2862.0/45

- sign 15.982 $\pm$ 0.080  $\chi^2$ /NDF: 1792.0/22

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:  $-7.100 \pm 0.072$   $\chi^2/\text{NDF}$ : 355.2/5

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

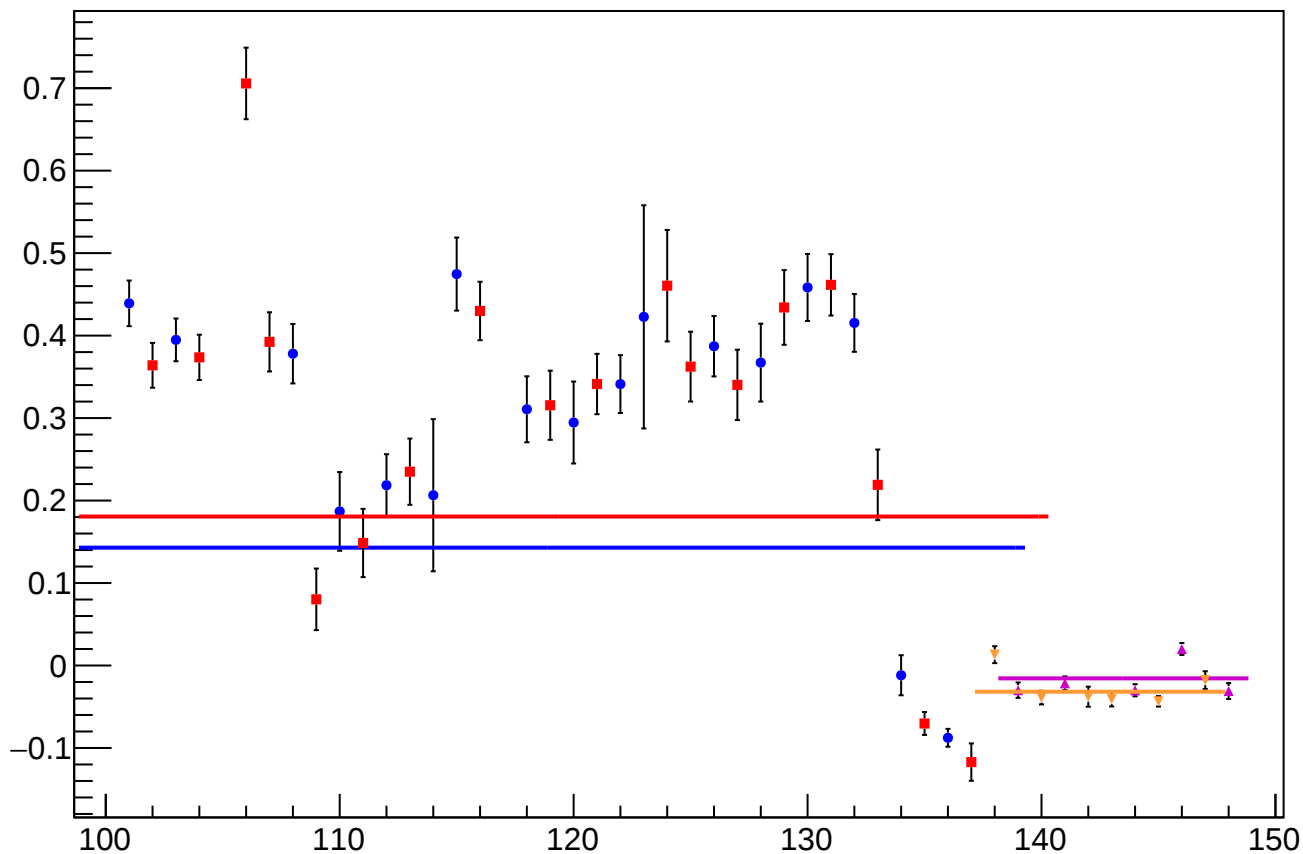
Left In:  $-7.723 \pm 0.071$   $\chi^2/\text{NDF}$ : 84.9/4

+ sign  $-6.493 \pm 0.063$   $\chi^2/\text{NDF}$ : 2242.7/22

All:  $-6.767 \pm 0.045$   $\chi^2/\text{NDF}$ : 4150.0/45

- sign  $-7.039 \pm 0.063$   $\chi^2/\text{NDF}$ : 1869.6/22

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:  $-0.032 \pm 0.004$   $\chi^2/\text{NDF}$ : 26.3/5

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 1003.7/17

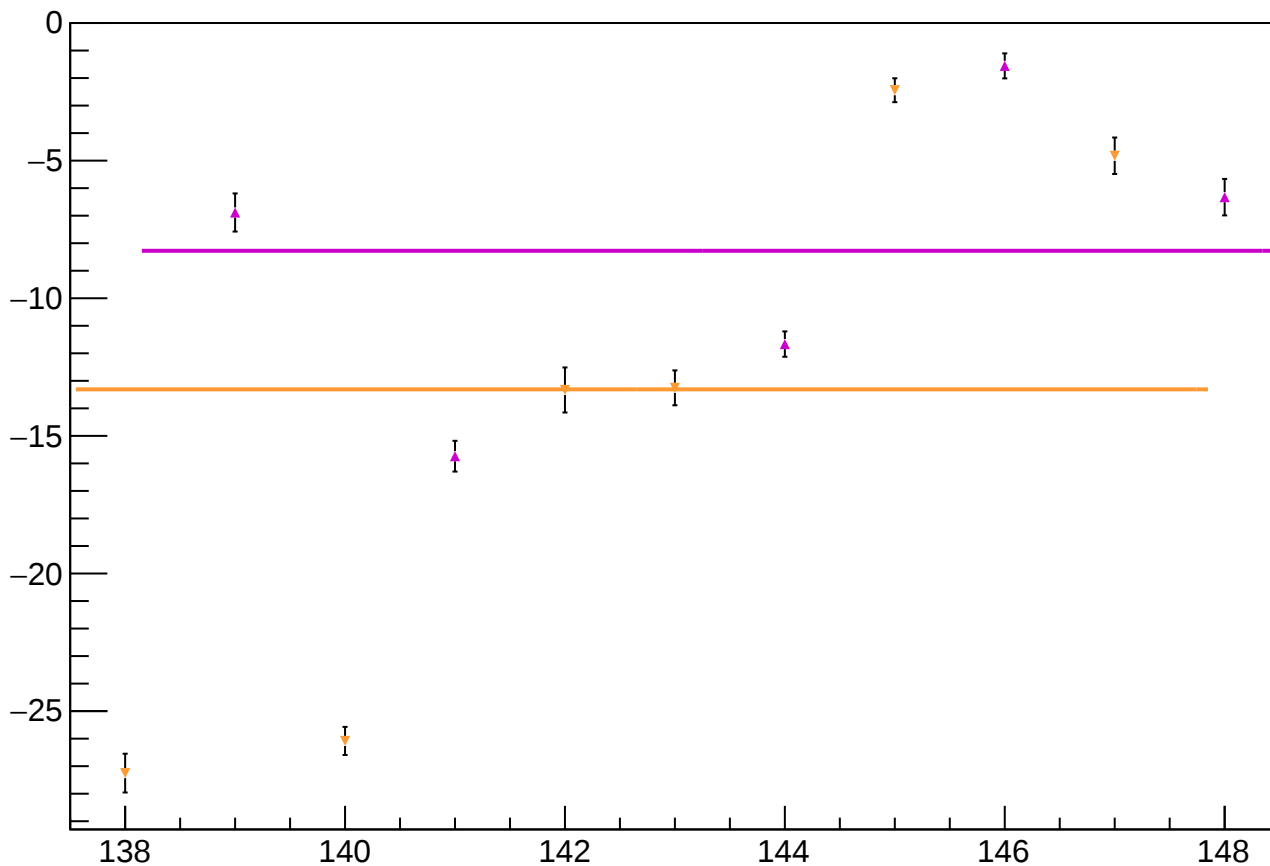
Left In:  $-0.016 \pm 0.004$   $\chi^2/\text{NDF}$ : 33.6/4

+ sign  $0.004 \pm 0.003$   $\chi^2/\text{NDF}$ : 1571.0/22

All:  $0.014 \pm 0.002$   $\chi^2/\text{NDF}$ : 3189.1/45

- sign  $0.023 \pm 0.003$   $\chi^2/\text{NDF}$ : 1601.5/22

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: -13.309+/-0.240  $\chi^2/\text{NDF}$ : 1808.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

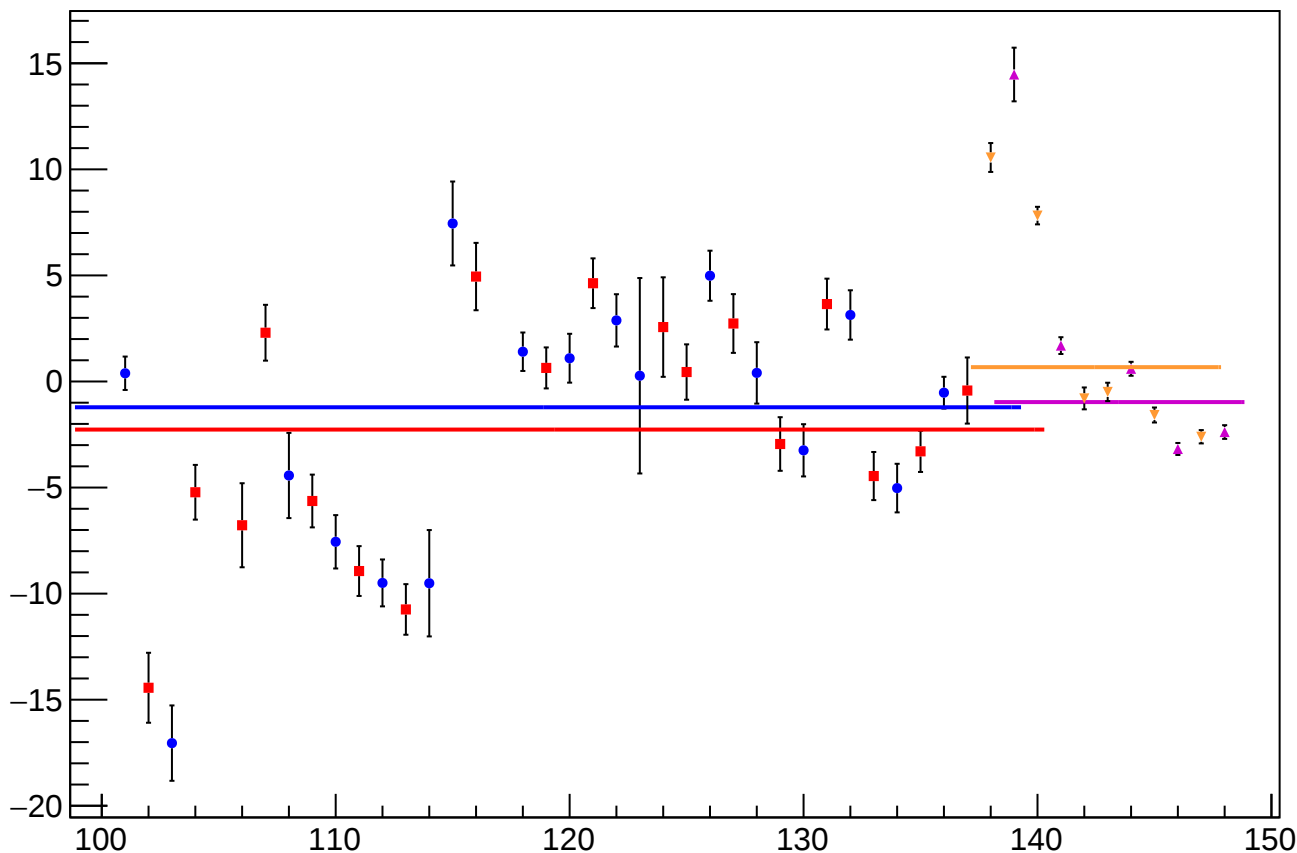
Left In: -8.276+/-0.242  $\chi^2/\text{NDF}$ : 463.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.814+/-0.170  $\chi^2/\text{NDF}$ : 2490.7/10

- 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:  $0.676 \pm 0.169$   $\chi^2/\text{NDF}$ : 673.1/5

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

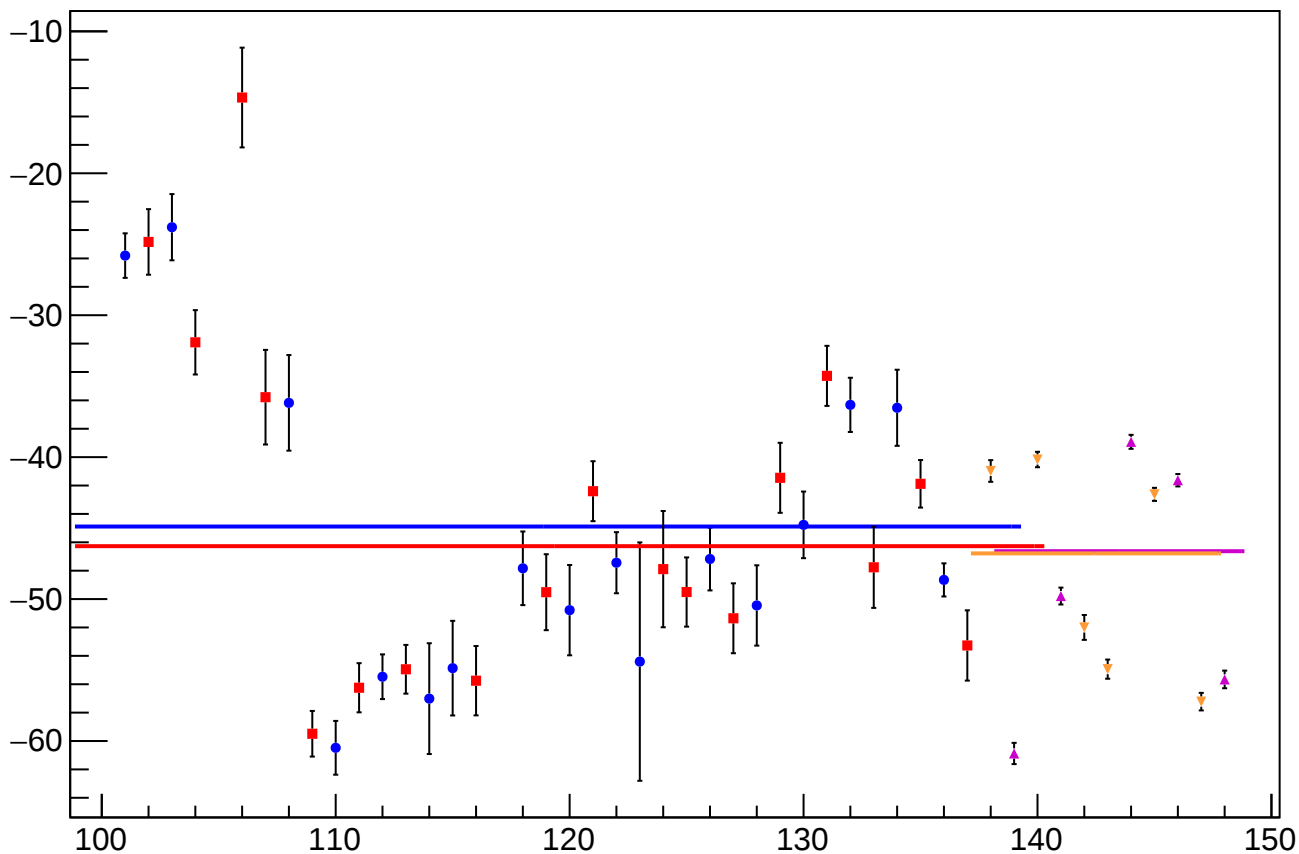
Left In:  $-0.971 \pm 0.161$   $\chi^2/\text{NDF}$ : 297.3/4

+ sign  $0.199 \pm 0.146$   $\chi^2/\text{NDF}$ : 983.5/22

All:  $-0.547 \pm 0.102$   $\chi^2/\text{NDF}$ : 1630.1/45

- sign  $-1.258 \pm 0.142$   $\chi^2/\text{NDF}$ : 595.5/22

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:  $-46.781 \pm 0.251$   $\chi^2/\text{NDF}$ : 753.6/5

Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17

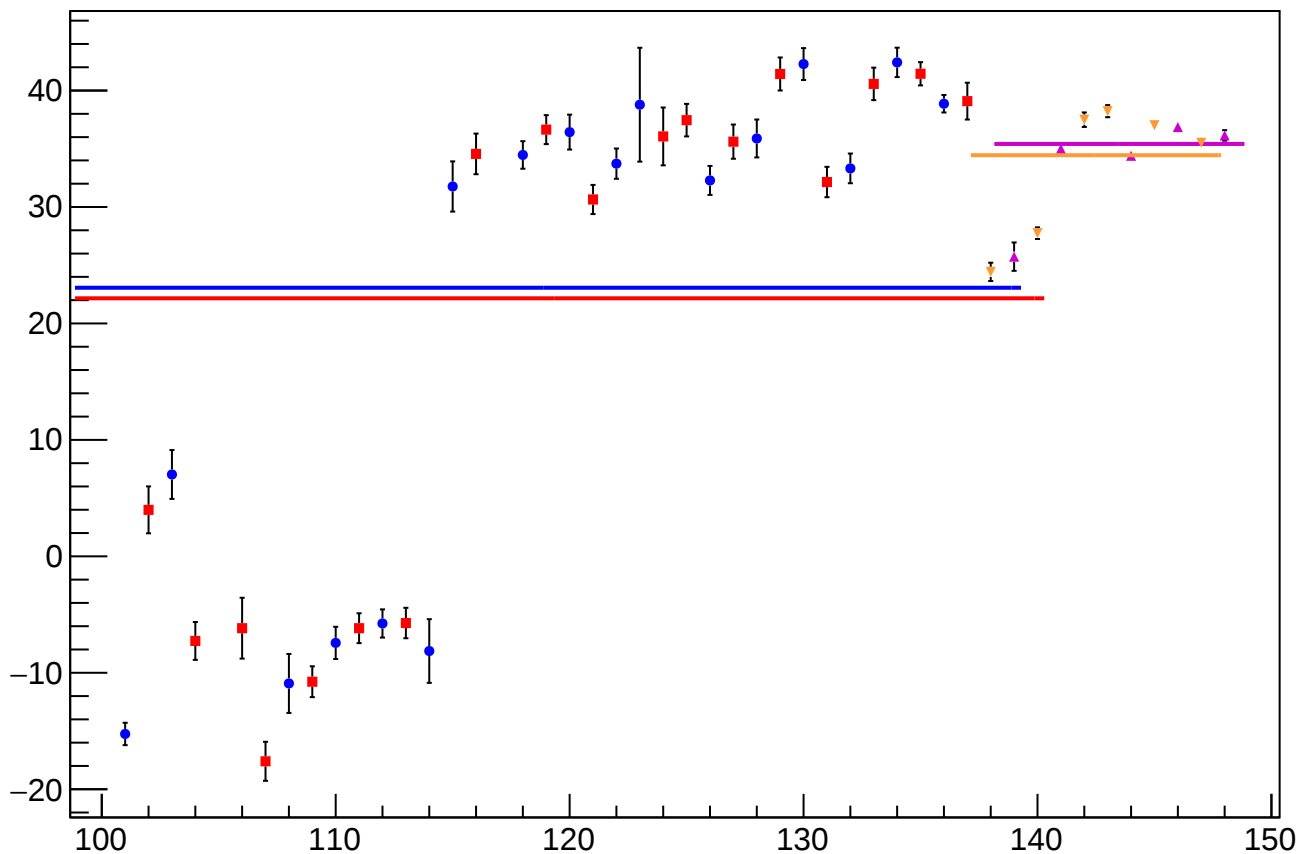
Left In:  $-46.627 \pm 0.246$   $\chi^2/\text{NDF}$ : 977.0/4

+ sign  $-46.428 \pm 0.226$   $\chi^2/\text{NDF}$ : 1184.7/22

All:  $-46.497 \pm 0.159$   $\chi^2/\text{NDF}$ : 2582.8/45

- sign  $-46.564 \pm 0.223$   $\chi^2/\text{NDF}$ : 1397.9/22

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: 34.449 $\pm$ 0.208  $\chi^2$ /NDF:463.1/5

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

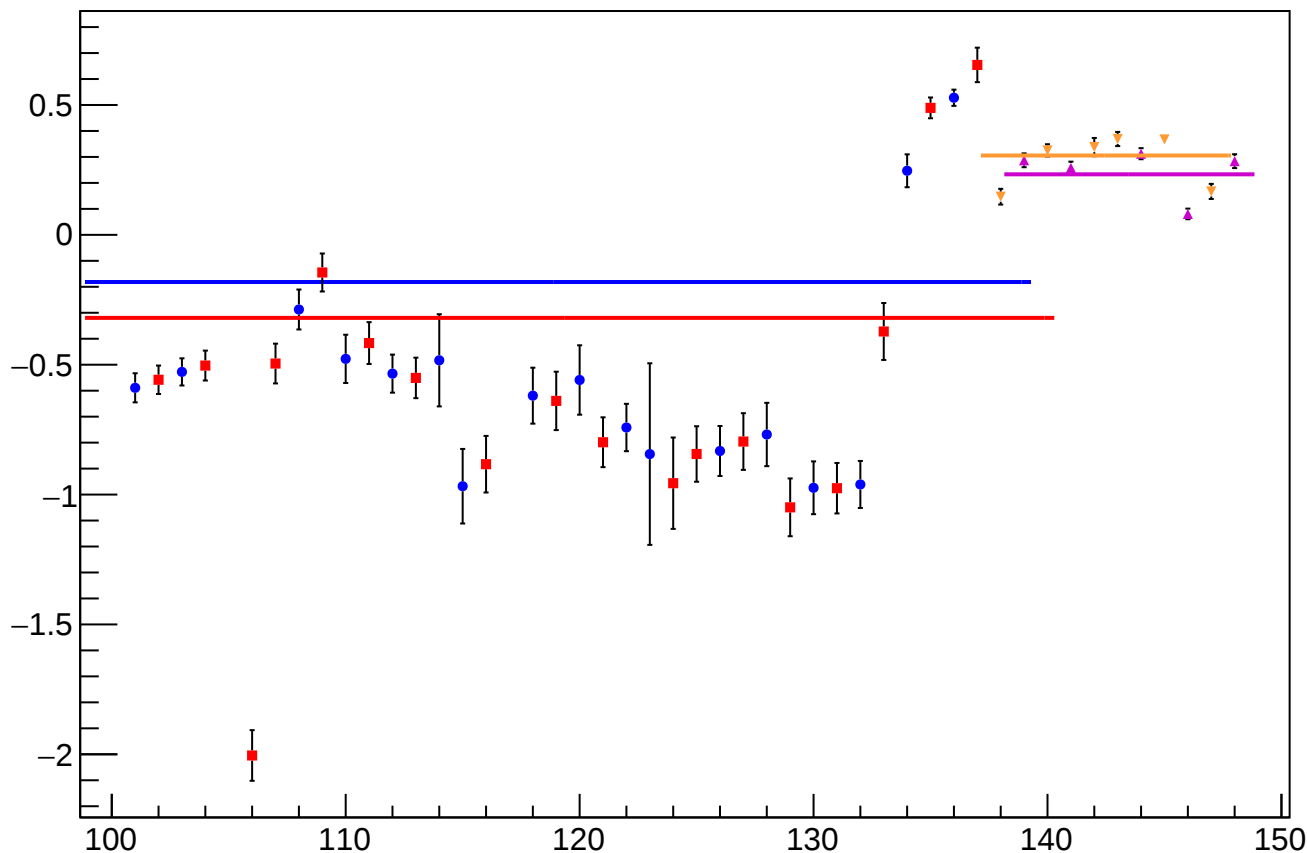
Left In: 35.414 $\pm$ 0.202  $\chi^2$ /NDF:89.9/4

+ sign 31.171 $\pm$ 0.175  $\chi^2$ /NDF: 5661.8/22

All: 31.565 $\pm$ 0.123  $\chi^2$ /NDF: 10910.2/45

- sign 31.953 $\pm$ 0.174  $\chi^2$ /NDF: 5238.3/22

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.182+/-0.018  $\chi^2/\text{NDF}$ : 996.9/16

Left Out: 0.306+/-0.010  $\chi^2/\text{NDF}$ : 68.7/5

Right Out: -0.320+/-0.018  $\chi^2/\text{NDF}$ : 1177.5/17

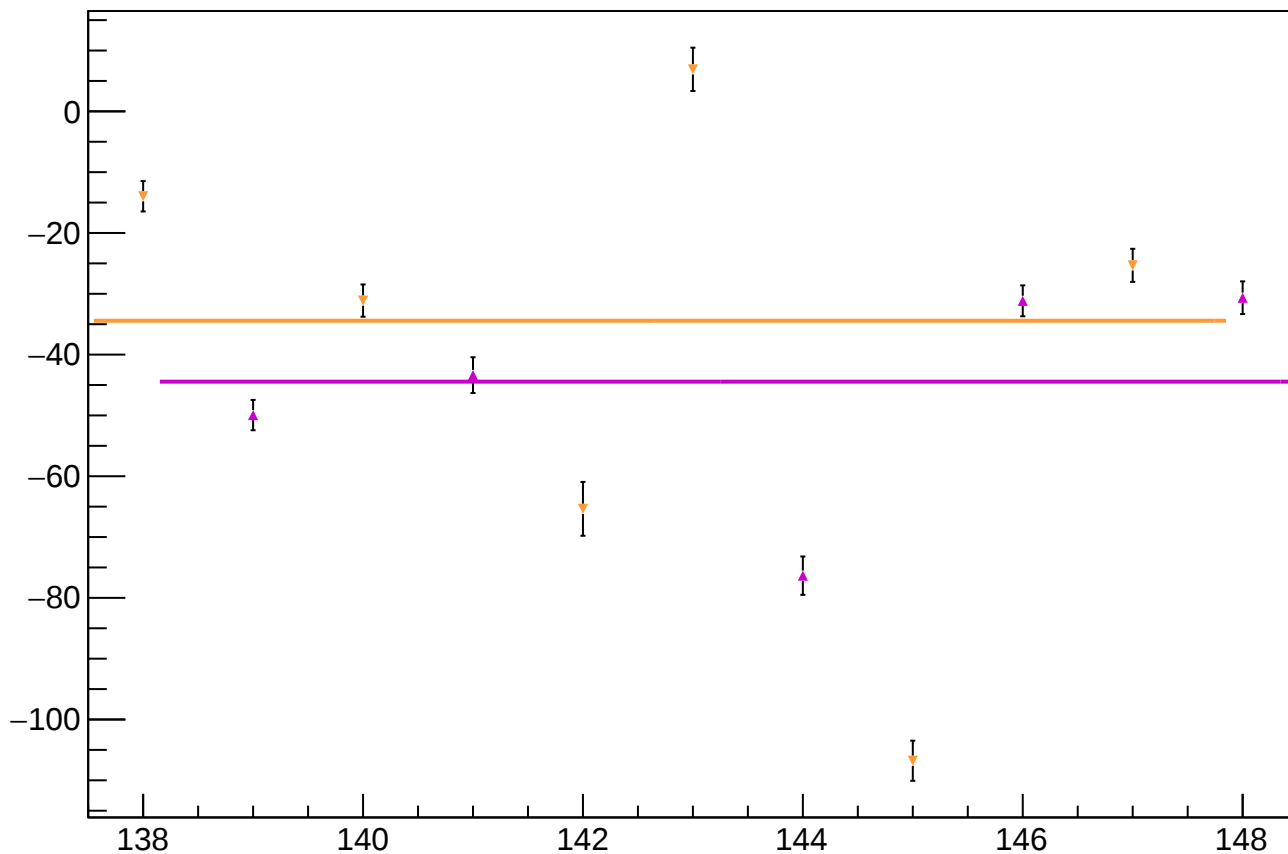
Left In: 0.233+/-0.010  $\chi^2/\text{NDF}$ : 78.3/4

+ sign 0.181+/-0.009  $\chi^2/\text{NDF}$ : 1627.1/22

All: 0.139+/-0.006  $\chi^2/\text{NDF}$ : 3620.0/45

- sign 0.096+/-0.009  $\chi^2/\text{NDF}$ : 1948.2/22

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.431+/-1.231  $\chi^2/\text{NDF}$ : 745.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

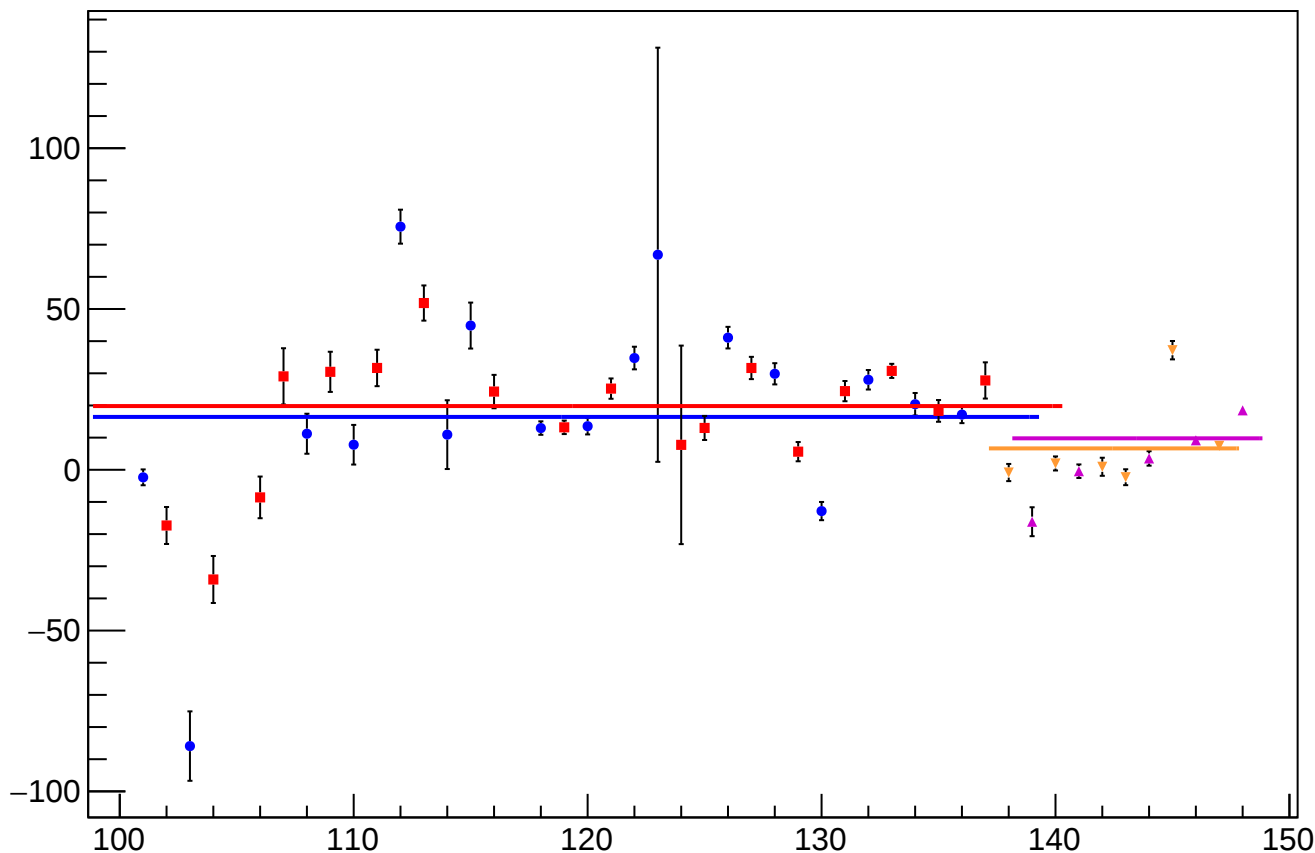
Left In: -44.446+/-1.221  $\chi^2/\text{NDF}$ : 161.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -39.481+/-0.867  $\chi^2/\text{NDF}$ : 939.5/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 16.439+/-0.849  $\chi^2/\text{NDF}$ : 516.9/16

Left Out: 6.649+/-0.857  $\chi^2/\text{NDF}$ : 144.3/5

Right Out: 19.813+/-0.899  $\chi^2/\text{NDF}$ : 238.5/17

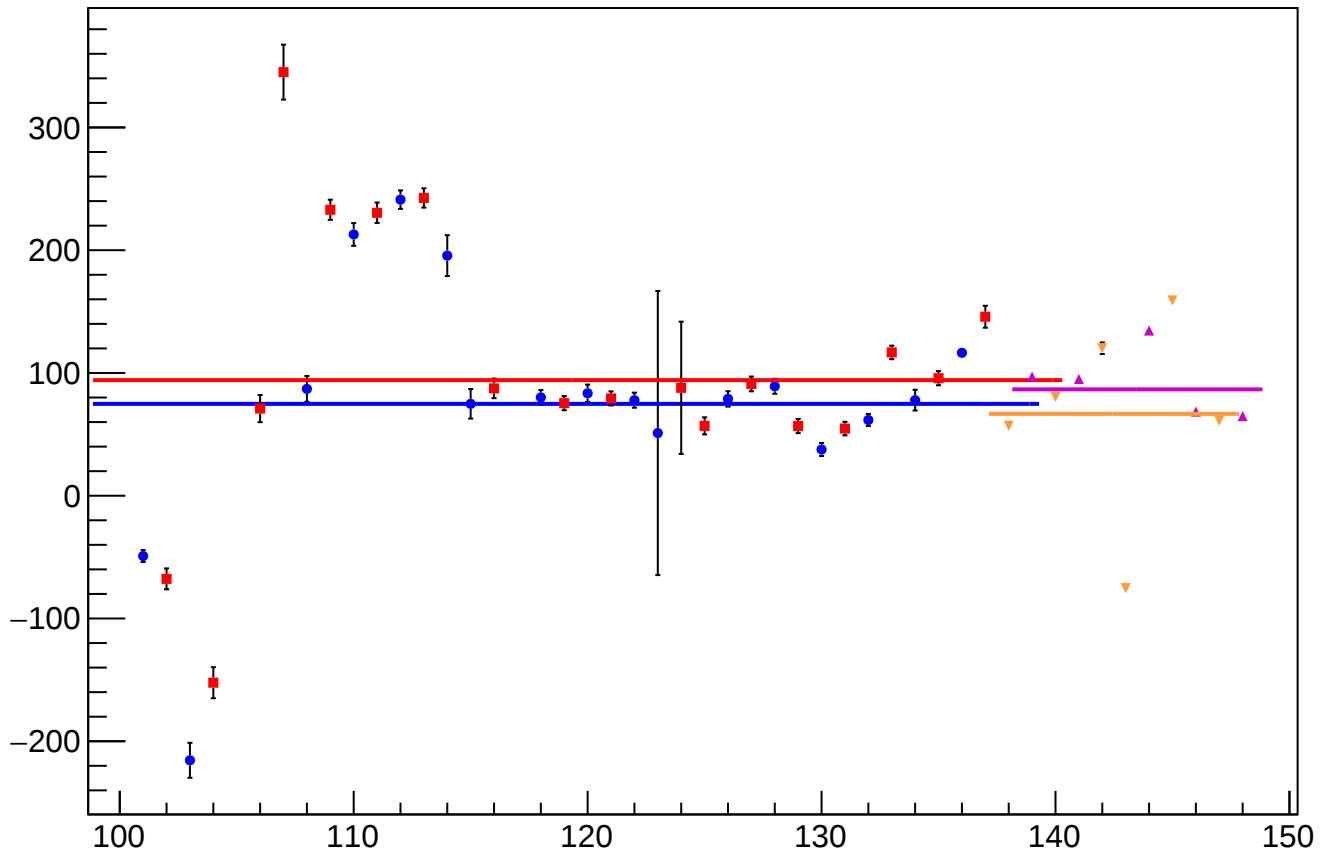
Left In: 9.781+/-0.813  $\chi^2/\text{NDF}$ : 109.1/4

+ sign 11.593+/-0.603  $\chi^2/\text{NDF}$ : 727.1/22

All: 12.943+/-0.426  $\chi^2/\text{NDF}$ : 1153.2/45

- sign 14.291+/-0.603  $\chi^2/\text{NDF}$ : 416.1/22

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 74.824 $\pm$ 1.639  $\chi^2$ /NDF: 1996.8/16

Left Out: 66.702 $\pm$ 1.274  $\chi^2$ /NDF:2290.9/5

Right Out: 94.153 $\pm$ 1.720  $\chi^2$ /NDF: 1969.2/17

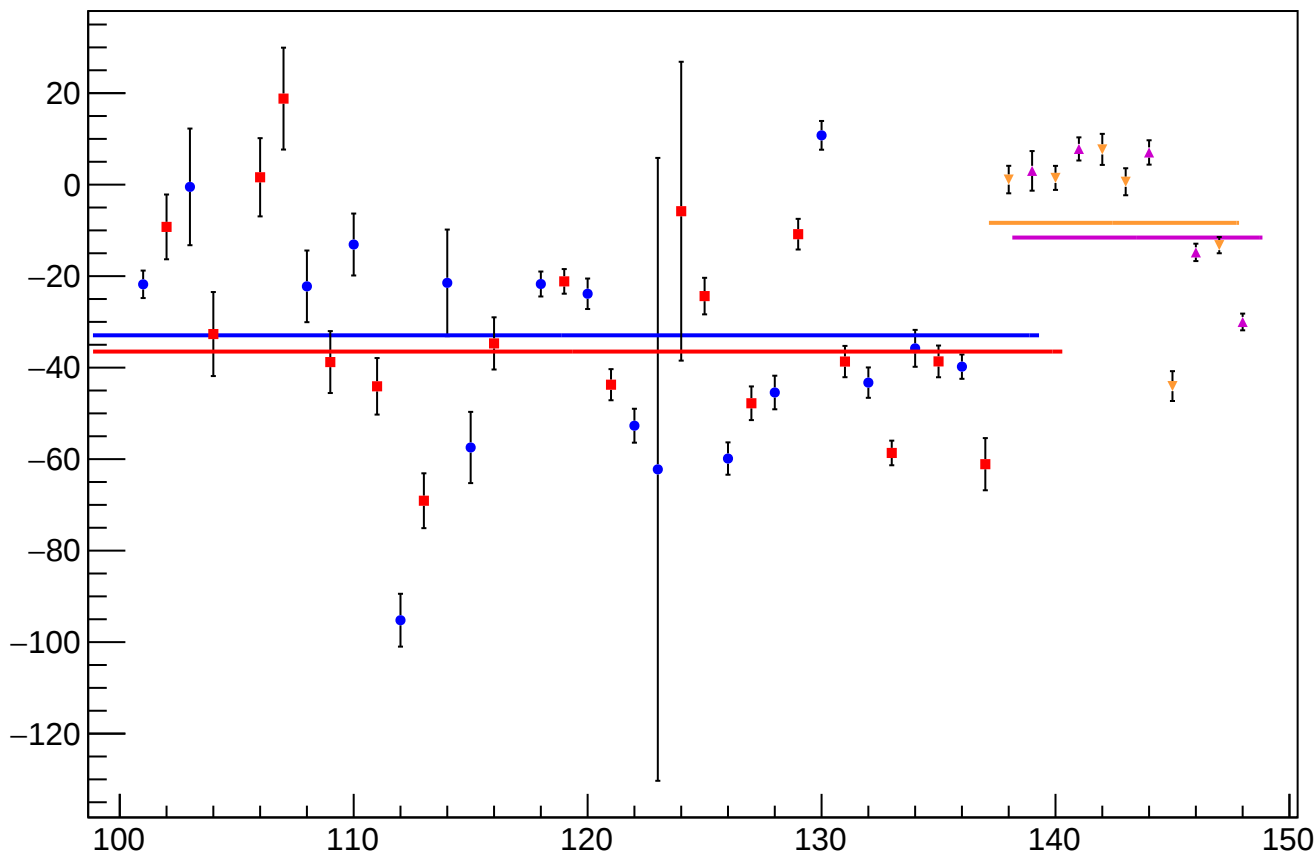
Left In: 86.657 $\pm$ 1.236  $\chi^2$ /NDF:354.2/4

+ sign 69.763 $\pm$ 1.006  $\chi^2$ /NDF: 4303.0/22

All: 79.508 $\pm$ 0.711  $\chi^2$ /NDF: 6826.1/45

- sign 89.210 $\pm$ 1.004  $\chi^2$ /NDF: 2335.9/22

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-8.350 \pm 1.074$   $\chi^2/\text{NDF}$ : 182.8/5

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

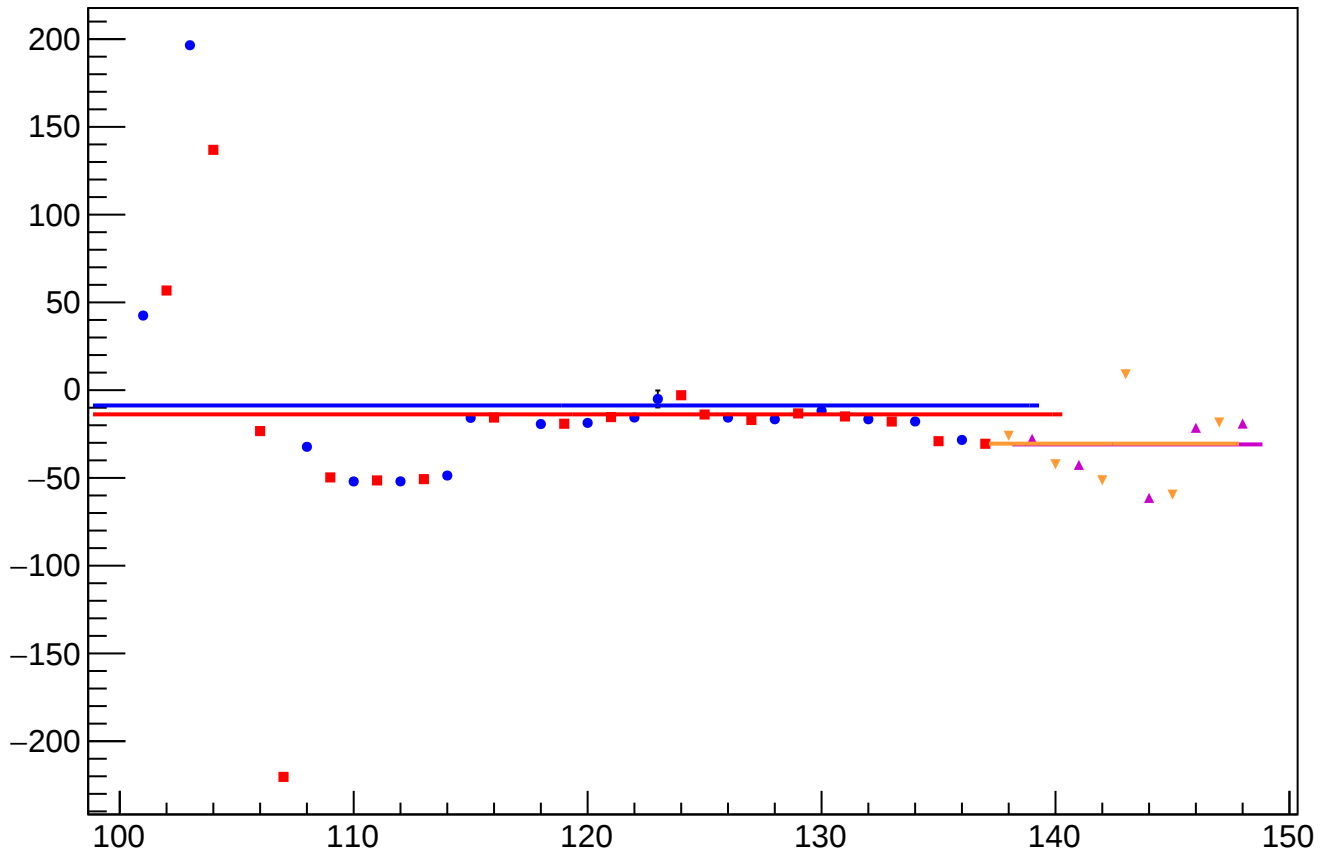
Left In:  $-11.566 \pm 1.038$   $\chi^2/\text{NDF}$ : 223.7/4

+ sign  $-21.844 \pm 0.721$   $\chi^2/\text{NDF}$ : 961.4/22

All:  $-22.990 \pm 0.513$   $\chi^2/\text{NDF}$ : 1774.7/45

- sign  $-24.165 \pm 0.730$   $\chi^2/\text{NDF}$ : 808.2/22

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-30.470 \pm 0.053$   $\chi^2/\text{NDF}: 146357.5/5$

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}: 549380.2/17$

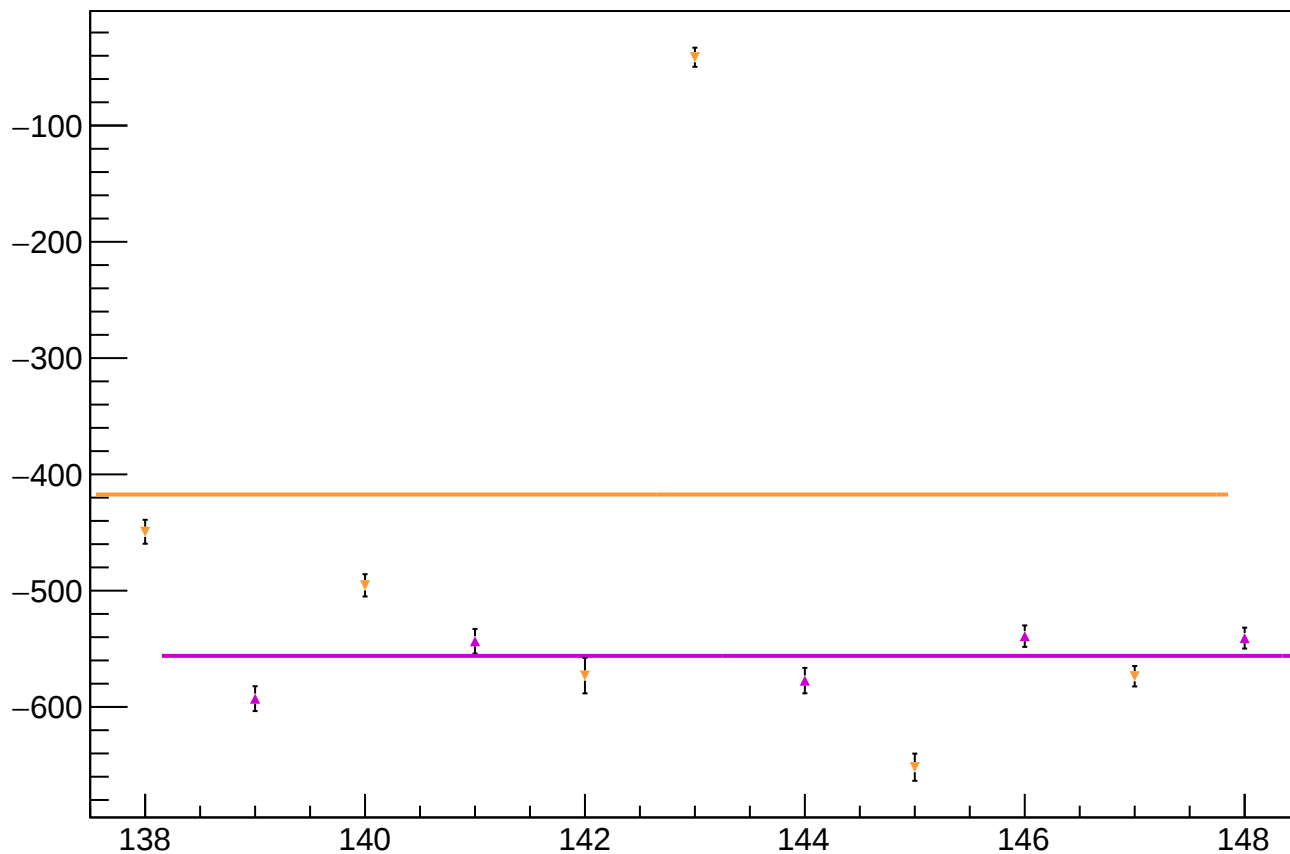
Left In:  $-30.902 \pm 0.051$   $\chi^2/\text{NDF}: 71535.3/4$

+ sign  $-20.671 \pm 0.040$   $\chi^2/\text{NDF}: 797176.0/22$

All:  $-22.351 \pm 0.028$   $\chi^2/\text{NDF}: 1467065.1/45$

- sign  $-24.021 \pm 0.039$   $\chi^2/\text{NDF}: 666284.0/22$

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -417.309+/-4.095  $\chi^2/\text{NDF}$ : 2988.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

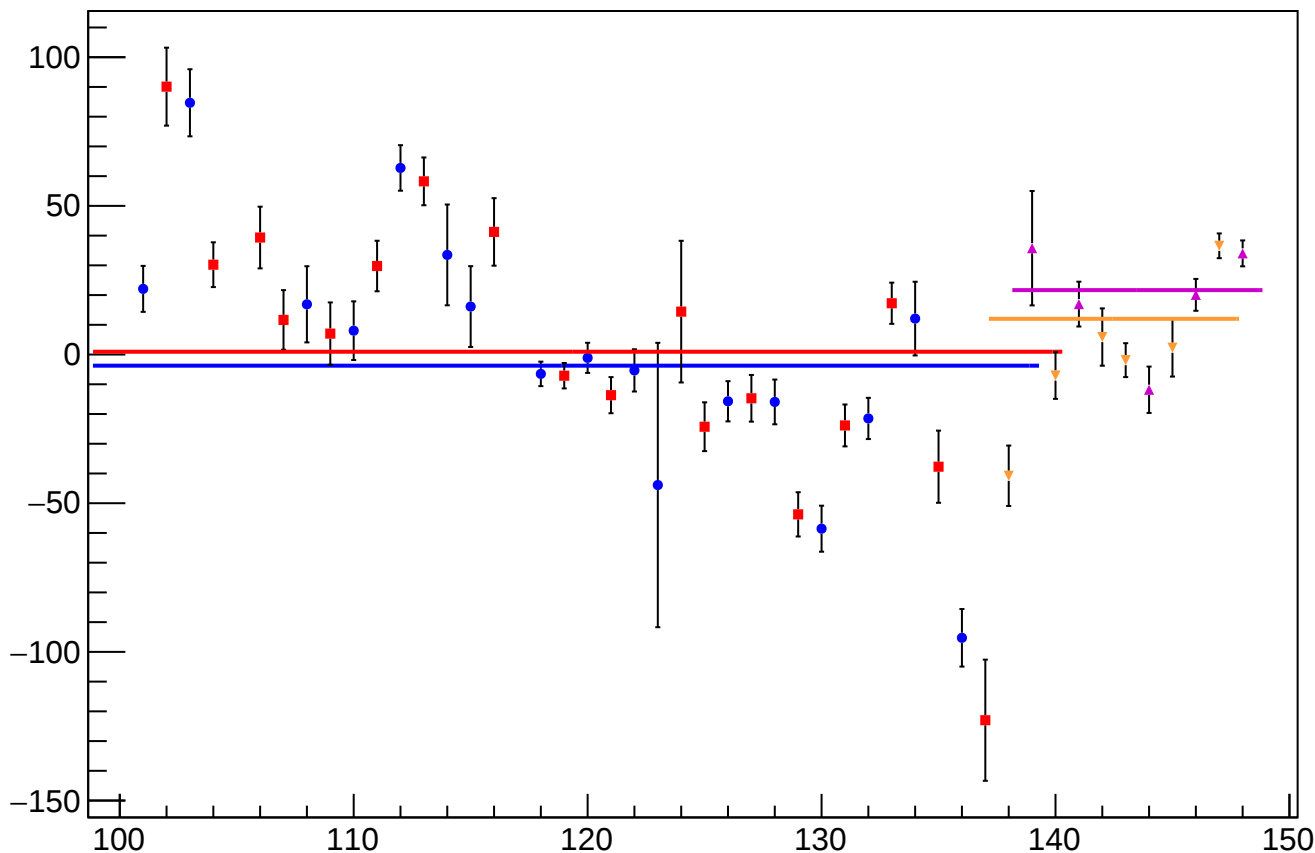
Left In: -556.062+/-4.464  $\chi^2/\text{NDF}$ : 23.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -480.707+/-3.018  $\chi^2/\text{NDF}$ : 3536.7/10

- 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:  $12.025 \pm 2.714$   $\chi^2/\text{NDF}$ : 75.0/5

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

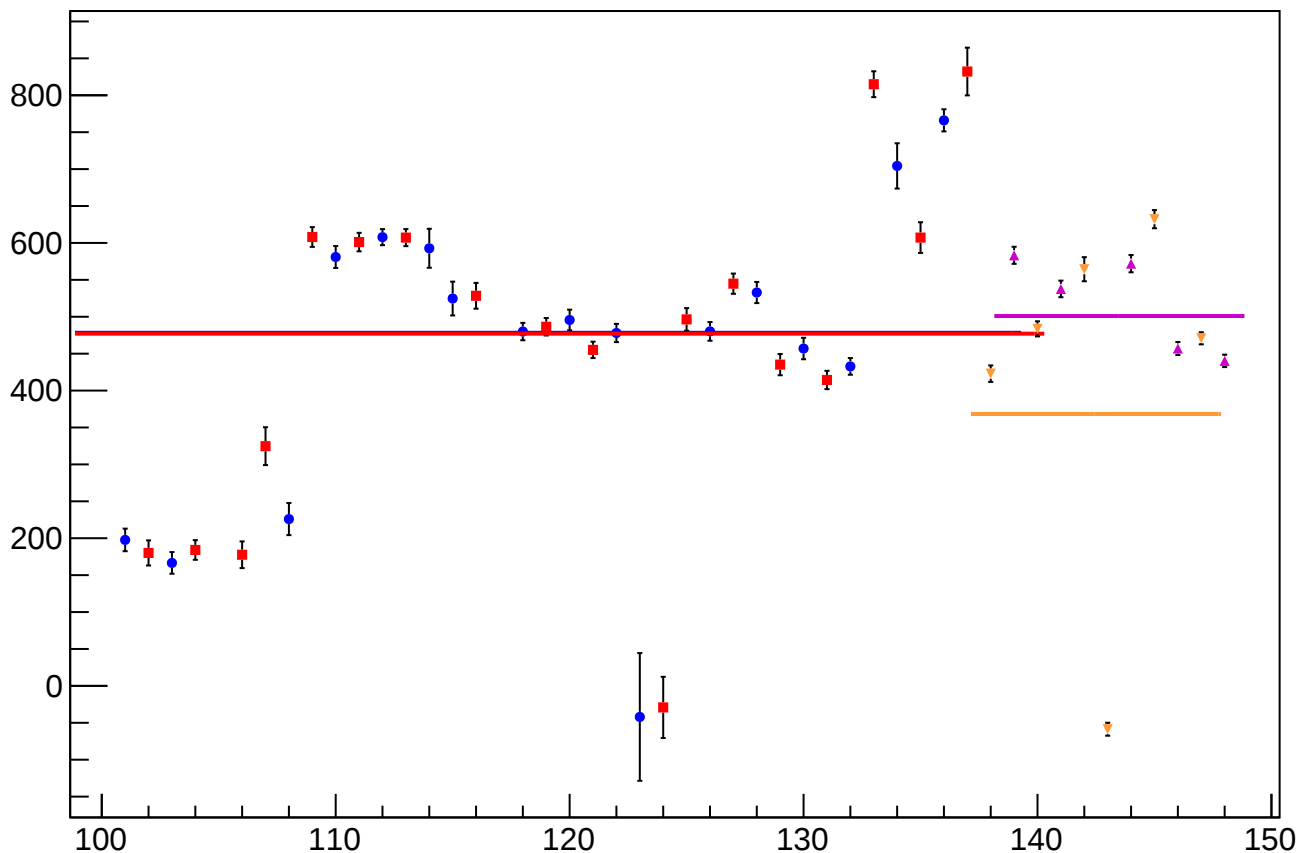
Left In:  $21.668 \pm 2.836$   $\chi^2/\text{NDF}$ : 27.5/4

+ sign  $1.413 \pm 1.552$   $\chi^2/\text{NDF}$ : 411.9/22

All:  $4.362 \pm 1.110$   $\chi^2/\text{NDF}$ : 777.1/45

- sign  $7.451 \pm 1.589$   $\chi^2/\text{NDF}$ : 357.8/22

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 368.267 $\pm$ 4.233  $\chi^2$ /NDF:3280.2/5

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

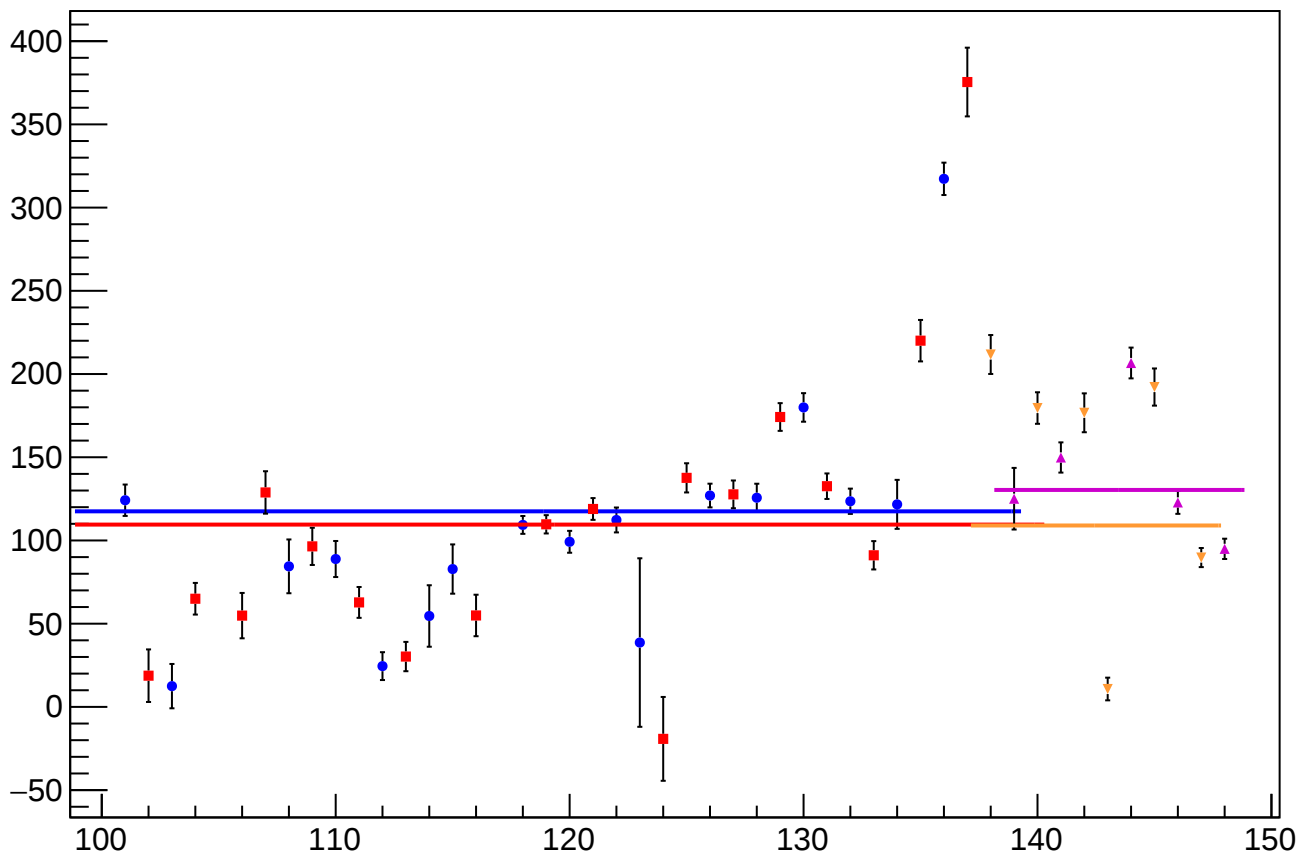
Left In: 500.981 $\pm$ 4.488  $\chi^2$ /NDF:174.8/4

+ sign 431.526 $\pm$ 2.759  $\chi^2$ /NDF: 5296.6/22

All: 458.686 $\pm$ 1.958  $\chi^2$ /NDF: 7859.9/45

- sign 486.263 $\pm$ 2.780  $\chi^2$ /NDF: 2368.0/22

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 117.502 $\pm$ 2.198  $\chi^2$ /NDF: 705.9/16

Left Out: 109.000 $\pm$ 3.417  $\chi^2$ /NDF:440.7/5

Right Out: 109.536 $\pm$ 2.208  $\chi^2$ /NDF: 562.2/17

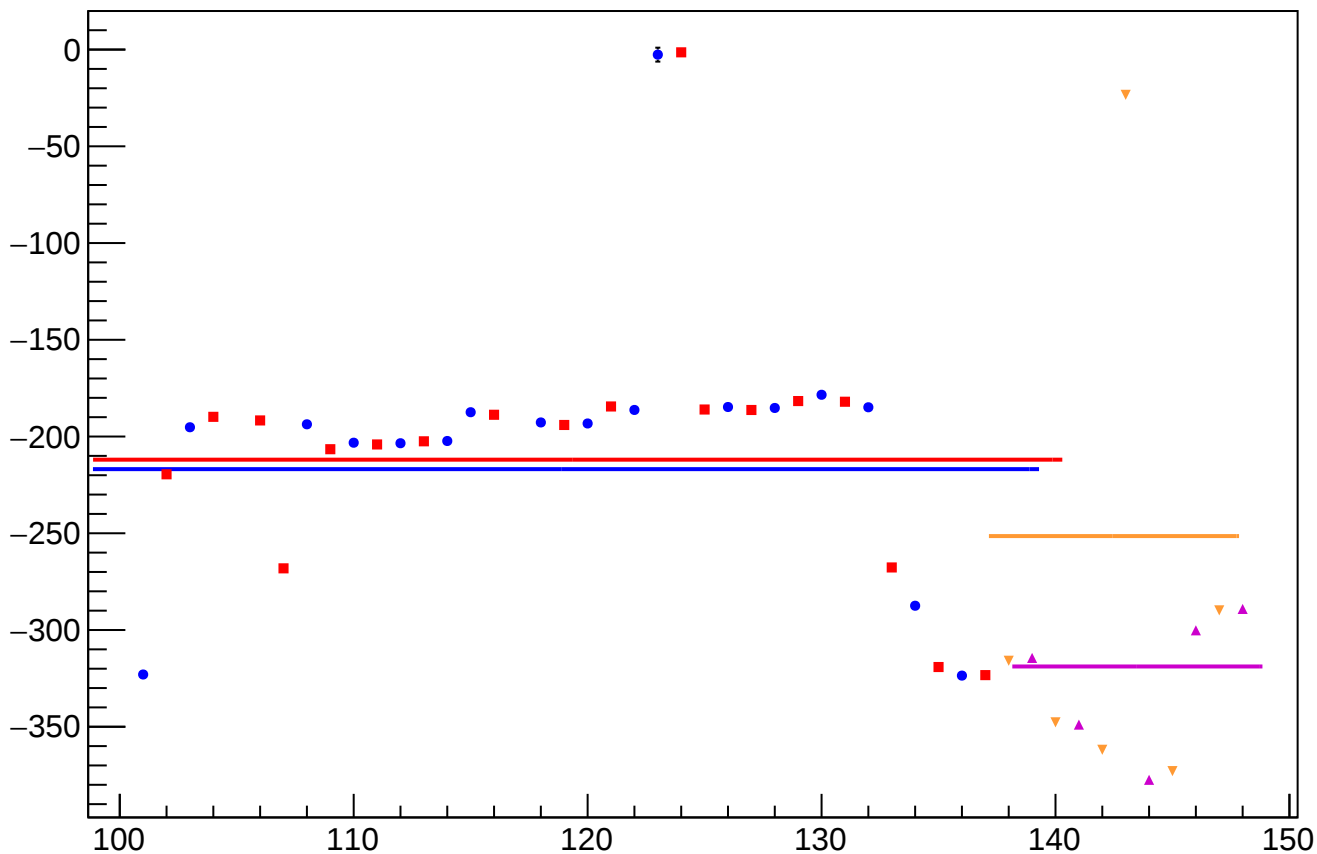
Left In: 130.357 $\pm$ 3.653  $\chi^2$ /NDF:107.7/4

+ sign 115.014 $\pm$ 1.848  $\chi^2$ /NDF: 1151.0/22

All: 115.060 $\pm$ 1.321  $\chi^2$ /NDF: 1844.7/45

- sign 115.109 $\pm$ 1.890  $\chi^2$ /NDF: 693.6/22

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}: 146927.1/16$

Left Out:  $-251.453 \pm 0.178$   $\chi^2/\text{NDF}: 587446.9/5$

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}: 112091.8/17$

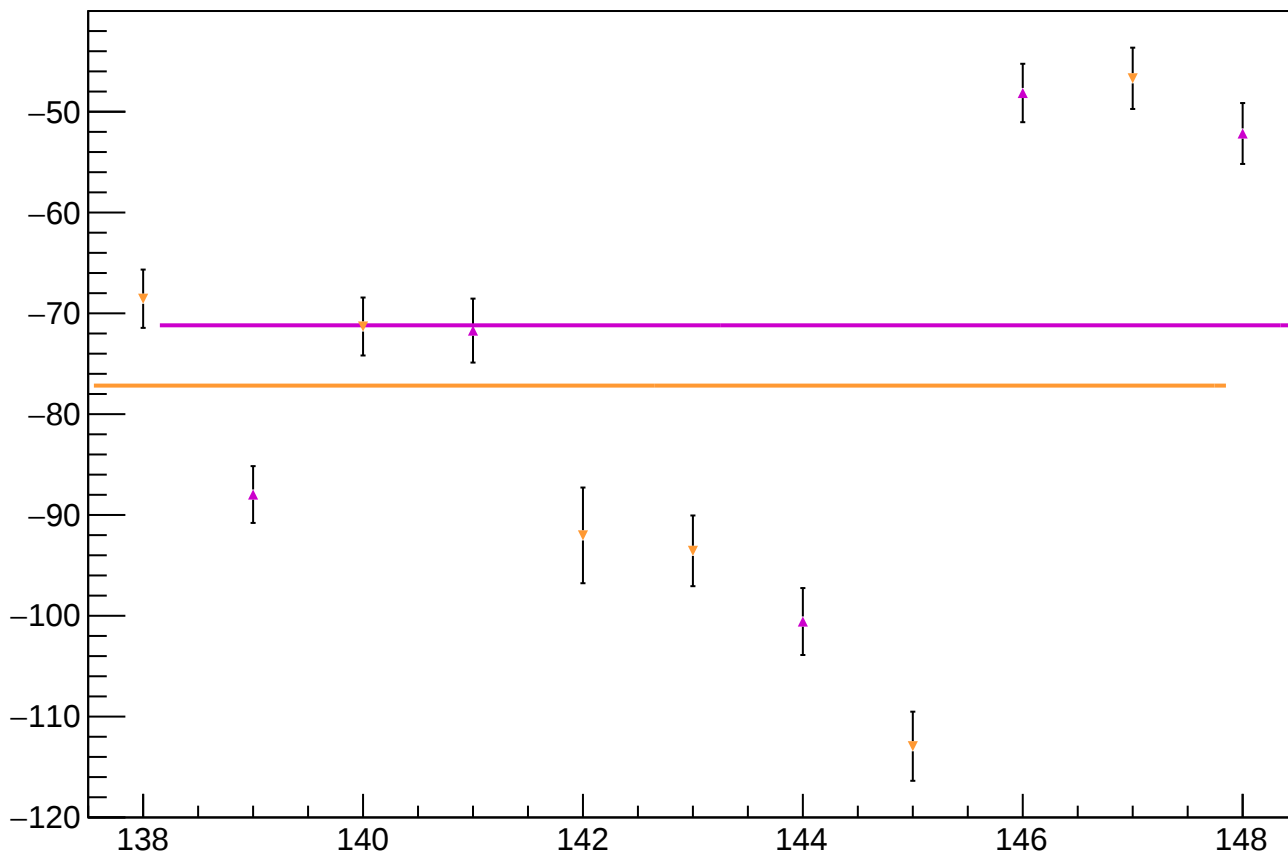
Left In:  $-318.847 \pm 0.188$   $\chi^2/\text{NDF}: 26425.9/4$

+ sign  $-229.553 \pm 0.108$   $\chi^2/\text{NDF}: 758174.5/22$

All:  $-238.260 \pm 0.076$   $\chi^2/\text{NDF}: 1127907.3/45$

- sign  $-246.832 \pm 0.107$   $\chi^2/\text{NDF}: 356854.3/22$

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -77.167+/-1.337  $\chi^2/\text{NDF}$ : 254.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

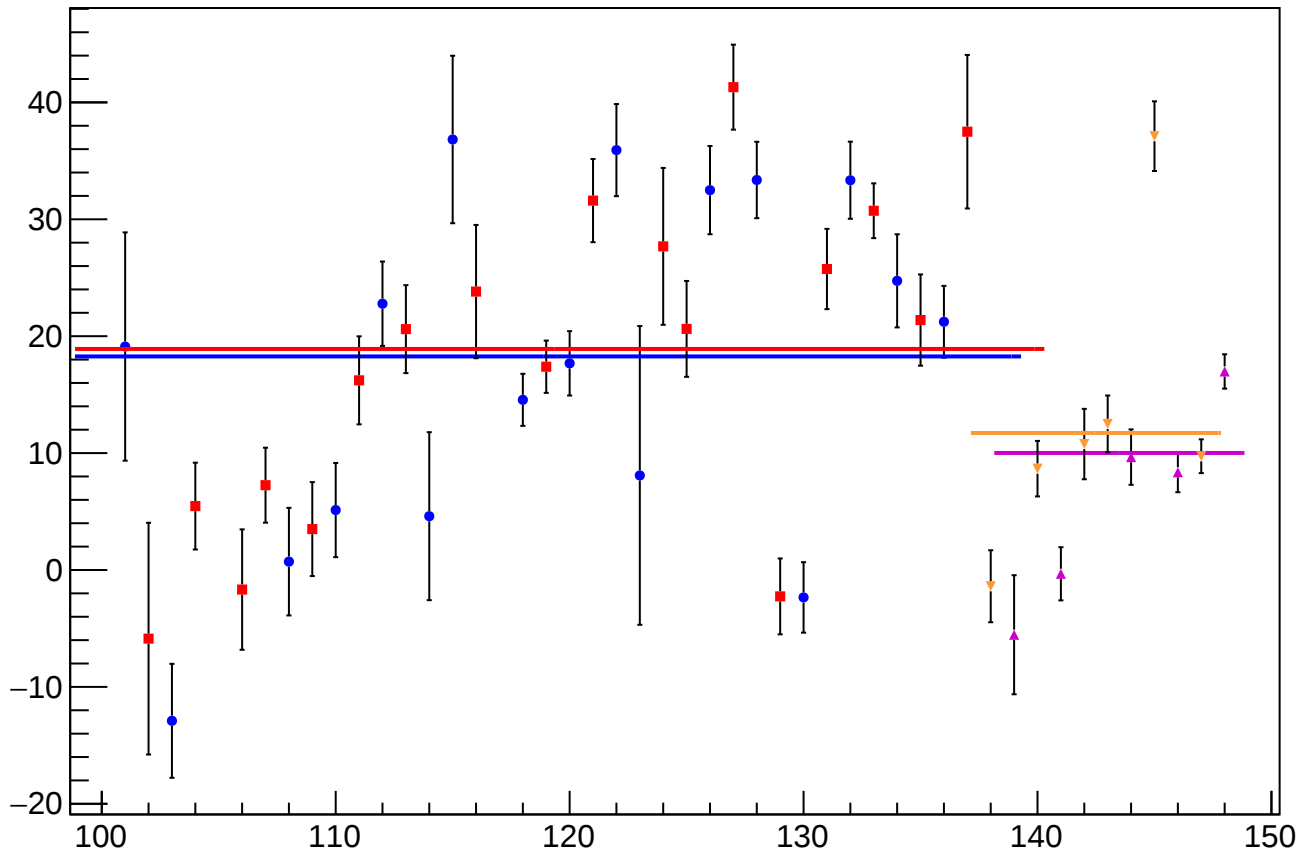
Left In: -71.188+/-1.355  $\chi^2/\text{NDF}$ : 216.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -74.217+/-0.952  $\chi^2/\text{NDF}$ : 480.7/10

- 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:  $11.725 \pm 0.931$   $\chi^2/\text{NDF}$ : 94.4/5

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

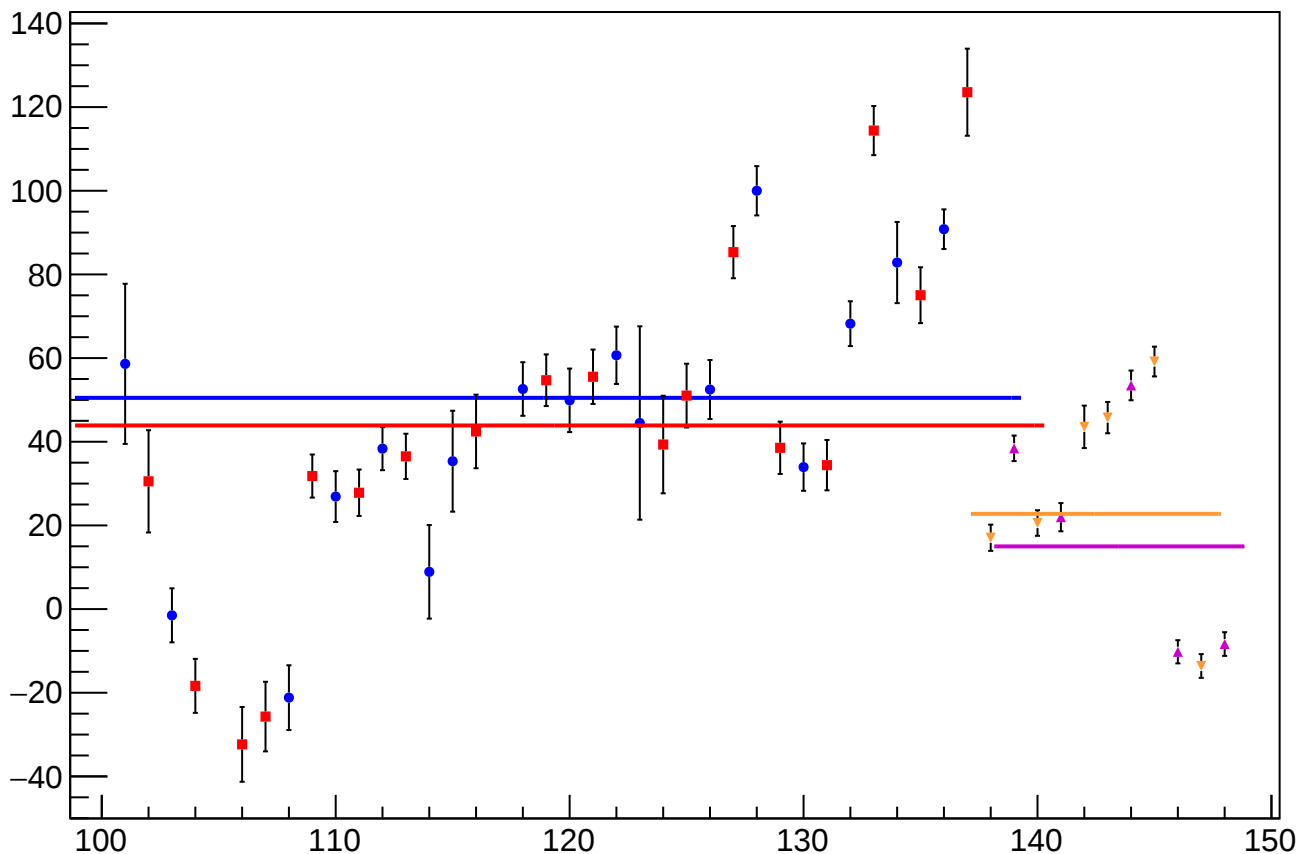
Left In:  $10.013 \pm 0.907$   $\chi^2/\text{NDF}$ : 53.4/4

+ sign  $15.081 \pm 0.649$   $\chi^2/\text{NDF}$ : 328.1/22

All:  $14.870 \pm 0.451$   $\chi^2/\text{NDF}$ : 630.3/45

- sign  $14.675 \pm 0.626$   $\chi^2/\text{NDF}$ : 302.0/22

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: 50.497+/-1.671  $\chi^2/\text{NDF}$ : 363.2/16

Left Out: 22.759+/-1.385  $\chi^2/\text{NDF}$ : 327.1/5

Right Out: 43.895+/-1.604  $\chi^2/\text{NDF}$ : 531.7/17

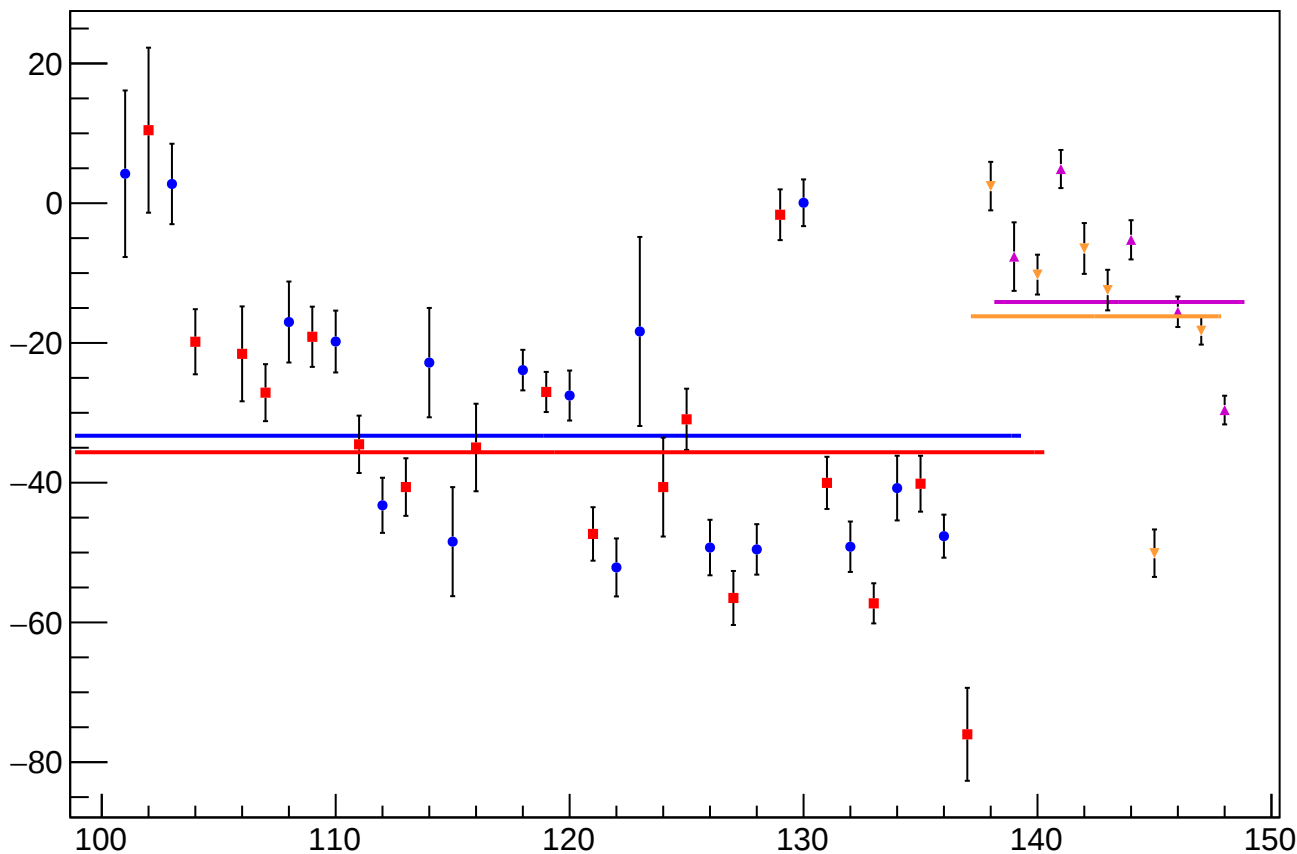
Left In: 14.981+/-1.374  $\chi^2/\text{NDF}$ : 331.4/4

+ sign 34.053+/-1.066  $\chi^2/\text{NDF}$ : 853.7/22

All: 30.565+/-0.746  $\chi^2/\text{NDF}$ : 1925.2/45

- sign 27.223+/-1.043  $\chi^2/\text{NDF}$ : 1050.5/22

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-16.187 \pm 1.163$   $\chi^2/\text{NDF}$ : 142.7/5

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

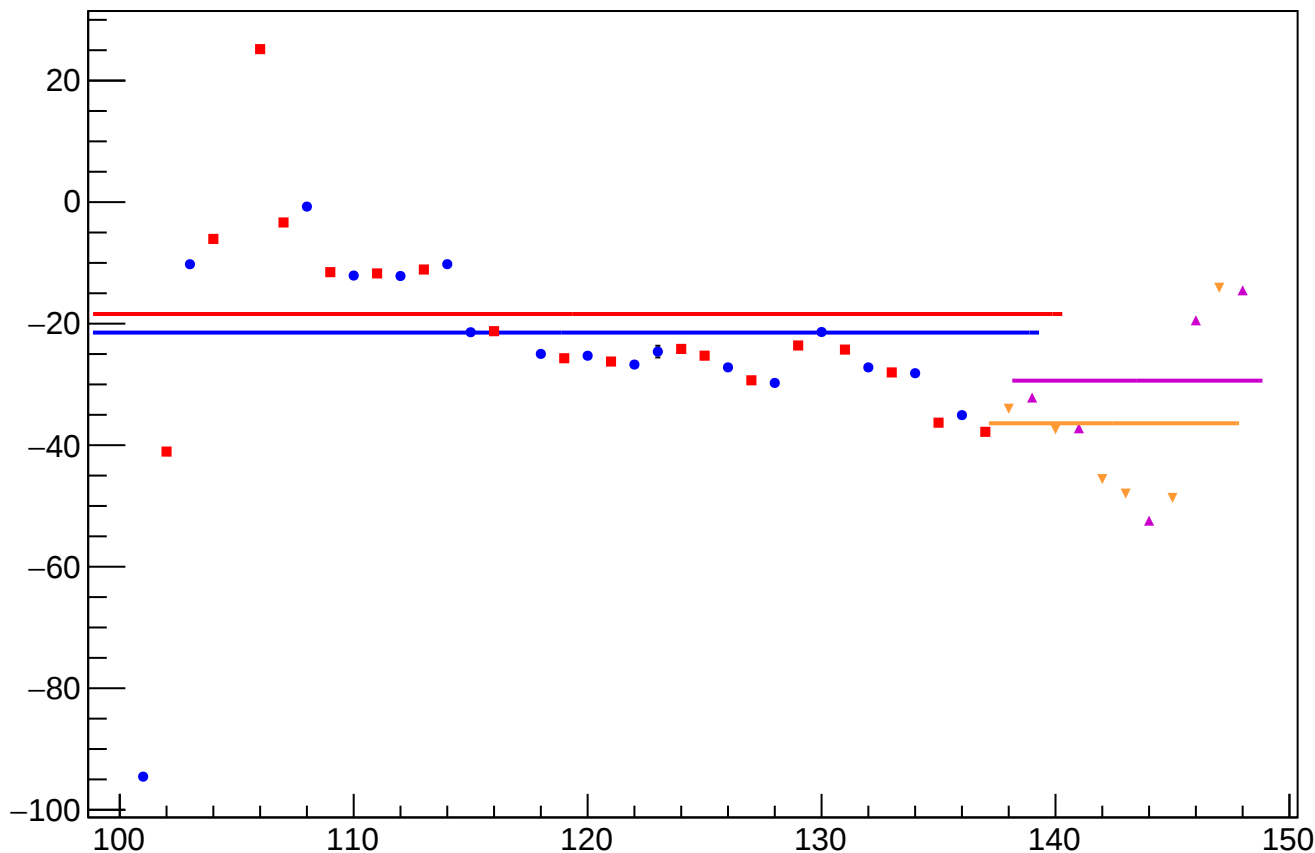
Left In:  $-14.141 \pm 1.154$   $\chi^2/\text{NDF}$ : 117.6/4

+ sign  $-25.725 \pm 0.773$   $\chi^2/\text{NDF}$ : 556.2/22

All:  $-26.125 \pm 0.539$   $\chi^2/\text{NDF}$ : 1158.4/45

- sign  $-26.503 \pm 0.753$   $\chi^2/\text{NDF}$ : 601.6/22

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}$ : 48979.5/16

Left Out:  $-36.392 \pm 0.058$   $\chi^2/\text{NDF}$ : 43963.5/5

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}$ : 77587.3/17

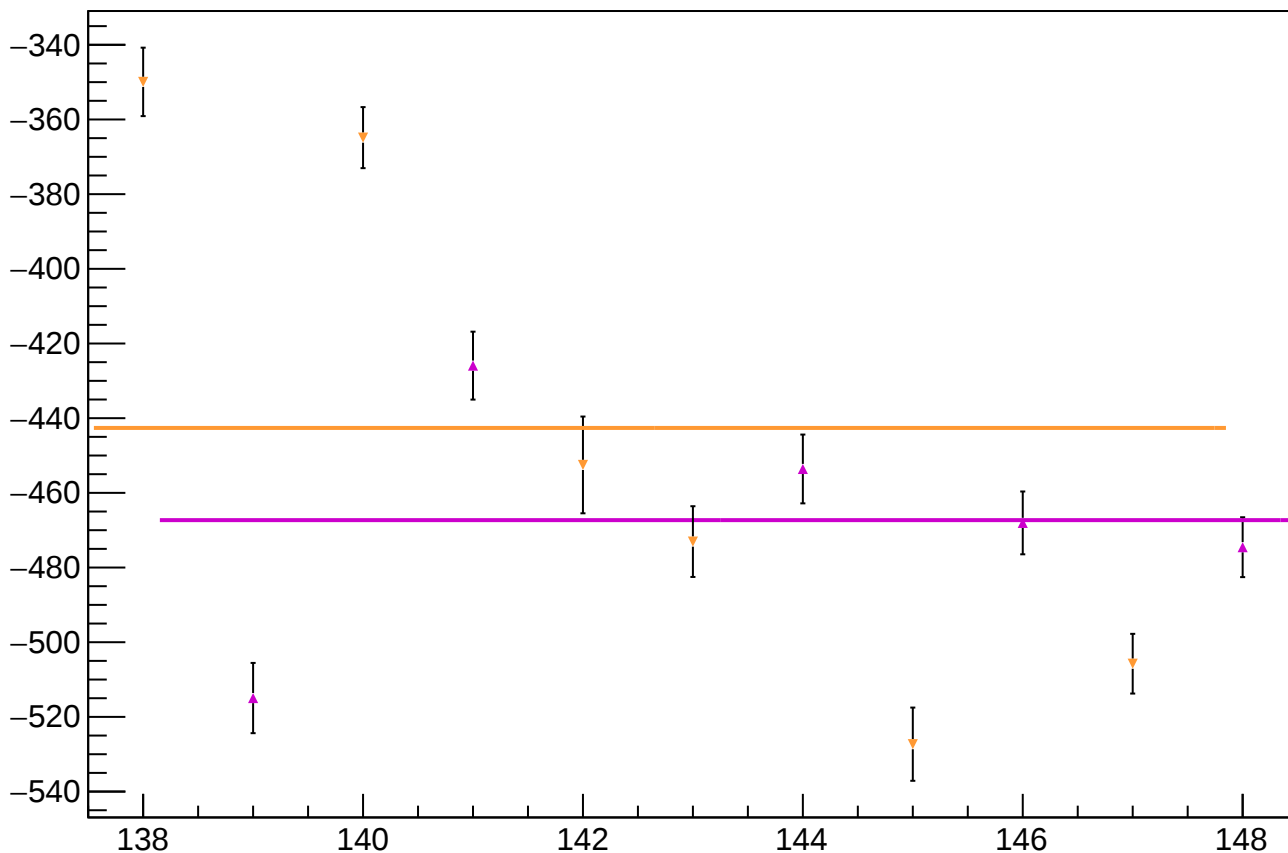
Left In:  $-29.378 \pm 0.057$   $\chi^2/\text{NDF}$ : 47093.0/4

+ sign  $-29.039 \pm 0.041$   $\chi^2/\text{NDF}$ : 125687.3/22

All:  $-26.444 \pm 0.029$   $\chi^2/\text{NDF}$ : 276608.4/45

- sign  $-23.962 \pm 0.040$   $\chi^2/\text{NDF}$ : 143170.2/22

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -442.611+/-3.779  $\chi^2/\text{NDF}$ : 340.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

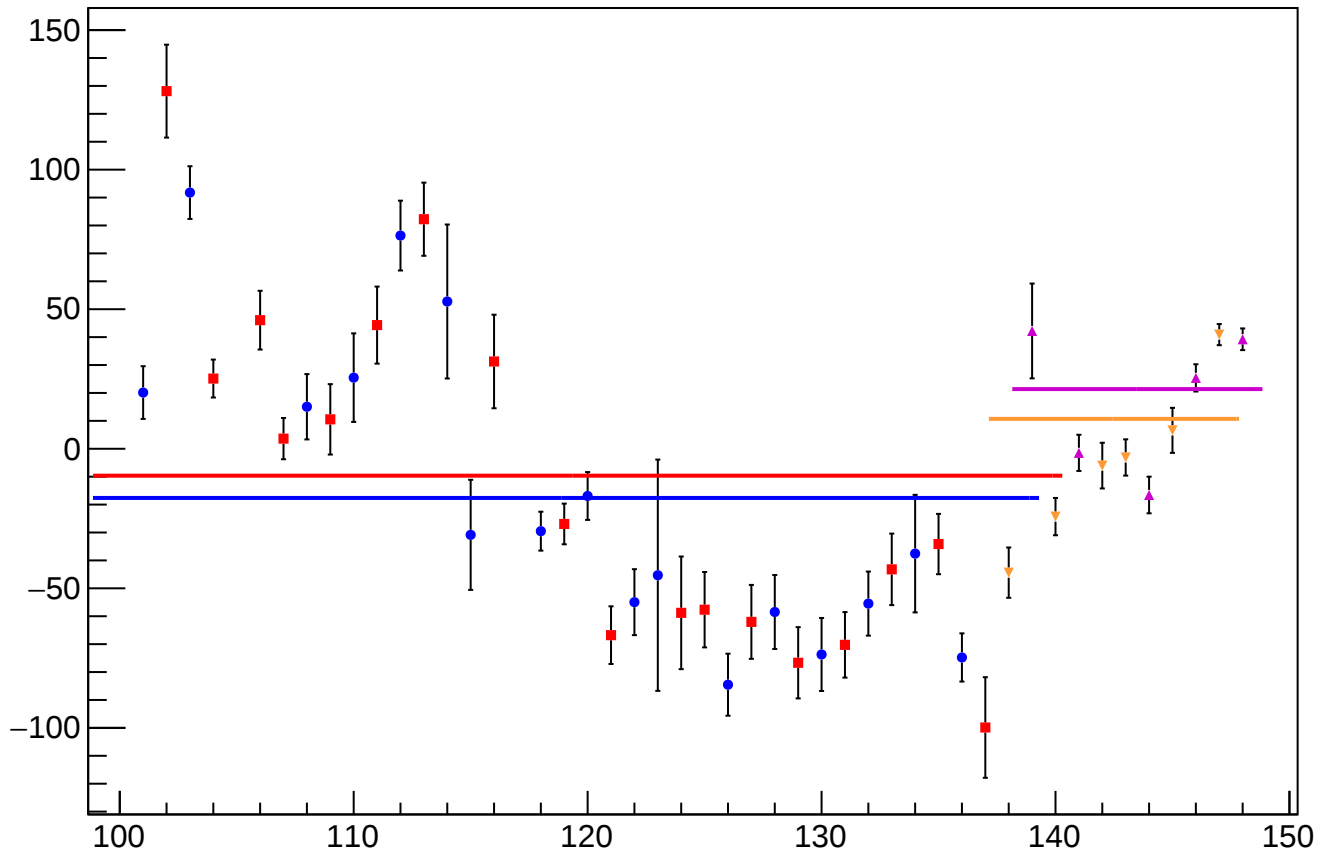
Left In: -467.305+/-3.927  $\chi^2/\text{NDF}$ : 49.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -454.486+/-2.723  $\chi^2/\text{NDF}$ : 410.5/10

- 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:  $10.714 \pm 2.513$   $\chi^2/\text{NDF}$ : 137.3/5

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

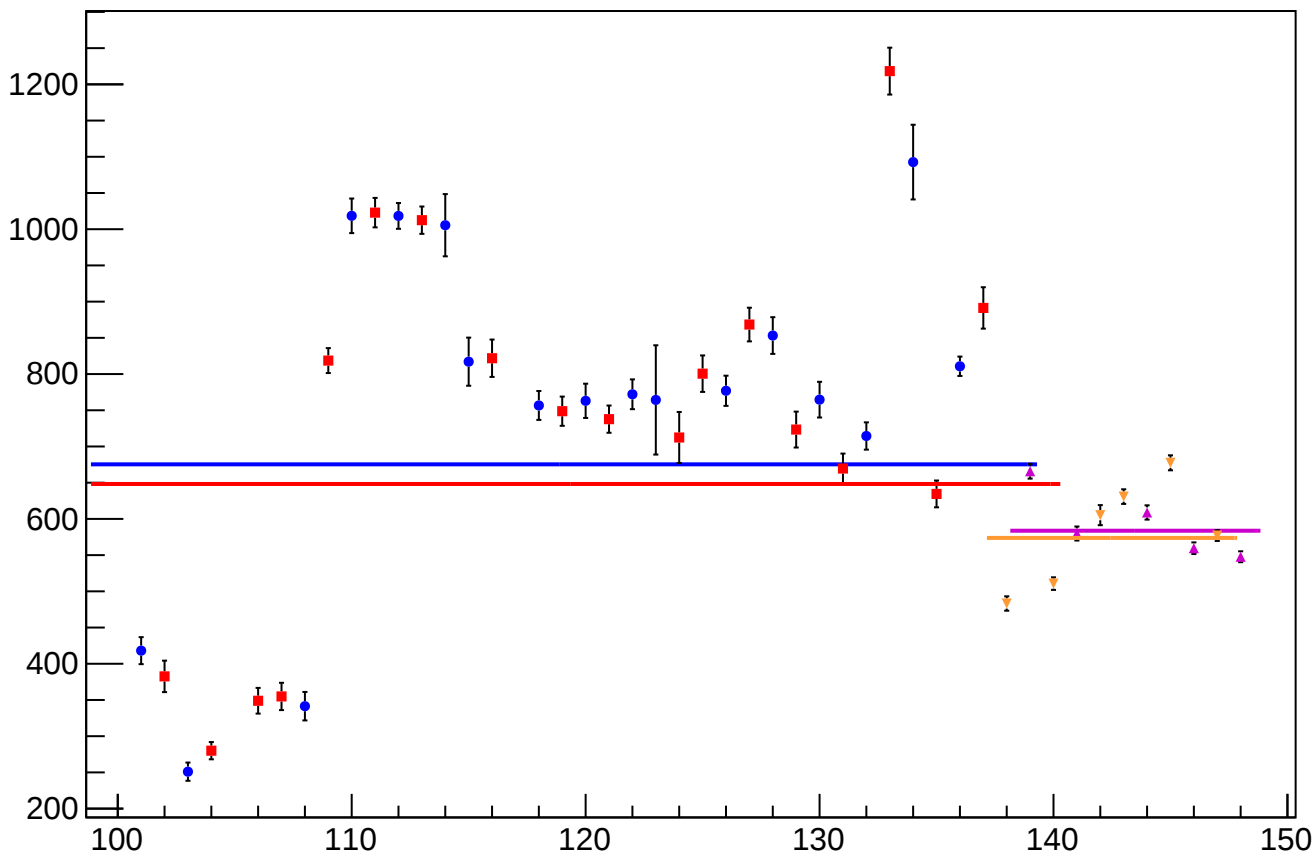
Left In:  $21.385 \pm 2.509$   $\chi^2/\text{NDF}$ : 69.1/4

+ sign  $-1.995 \pm 1.866$   $\chi^2/\text{NDF}$ : 556.3/22

All:  $2.381 \pm 1.299$   $\chi^2/\text{NDF}$ : 1070.1/45

- sign  $6.497 \pm 1.810$   $\chi^2/\text{NDF}$ : 503.1/22

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 675.339 $\pm$ 5.046  $\chi^2$ /NDF: 2582.7/16

Left Out: 573.754 $\pm$ 3.904  $\chi^2$ /NDF: 273.3/5

Right Out: 648.229 $\pm$ 4.775  $\chi^2$ /NDF: 3059.0/17

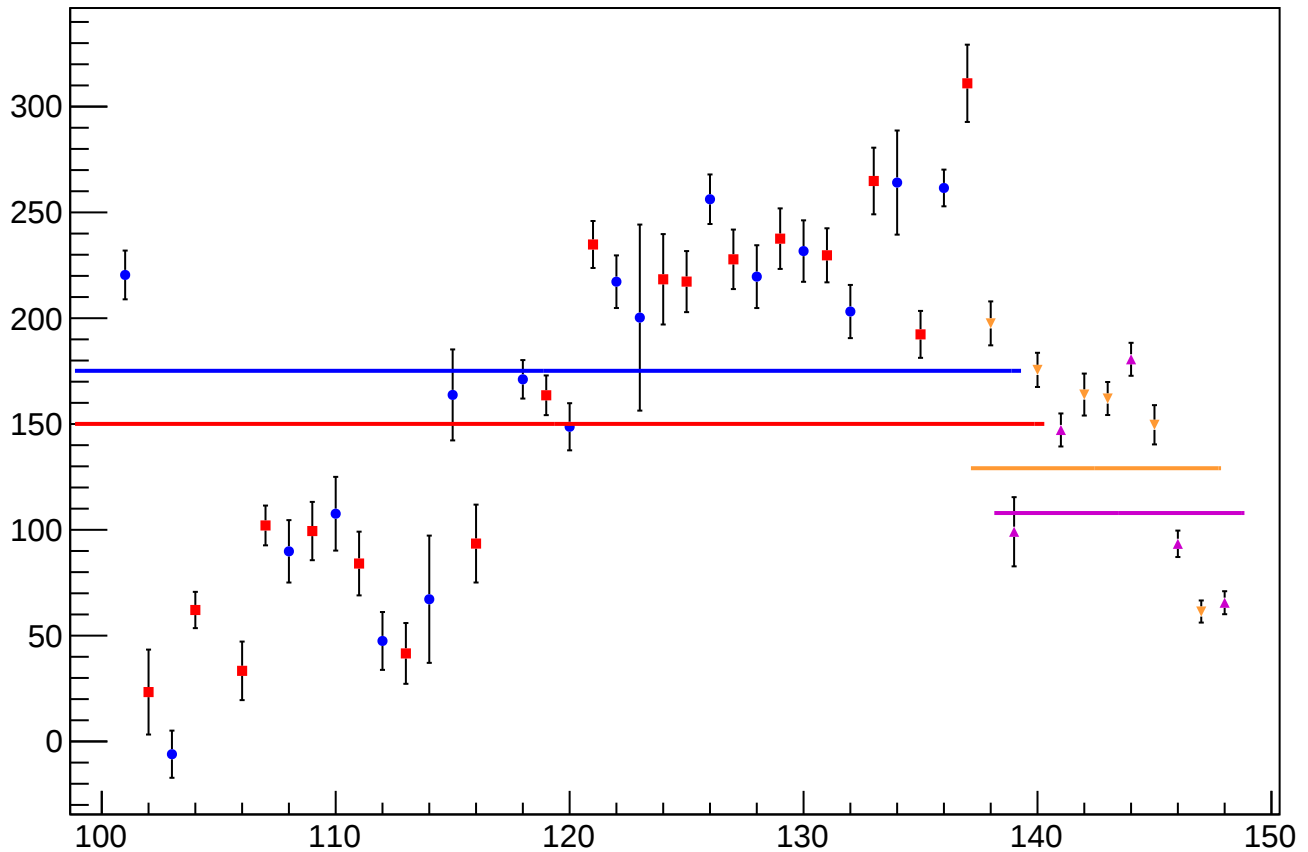
Left In: 583.688 $\pm$ 3.958  $\chi^2$ /NDF: 103.6/4

+ sign 611.793 $\pm$ 3.088  $\chi^2$ /NDF: 3109.6/22

All: 610.872 $\pm$ 2.169  $\chi^2$ /NDF: 6380.7/45

- sign 609.974 $\pm$ 3.047  $\chi^2$ /NDF: 3270.9/22

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 175.142 $\pm$ 3.209  $\chi^2$ /NDF: 635.6/16

Left Out: 129.111 $\pm$ 3.172  $\chi^2$ /NDF: 279.5/5

Right Out: 150.054 $\pm$ 3.045  $\chi^2$ /NDF: 686.2/17

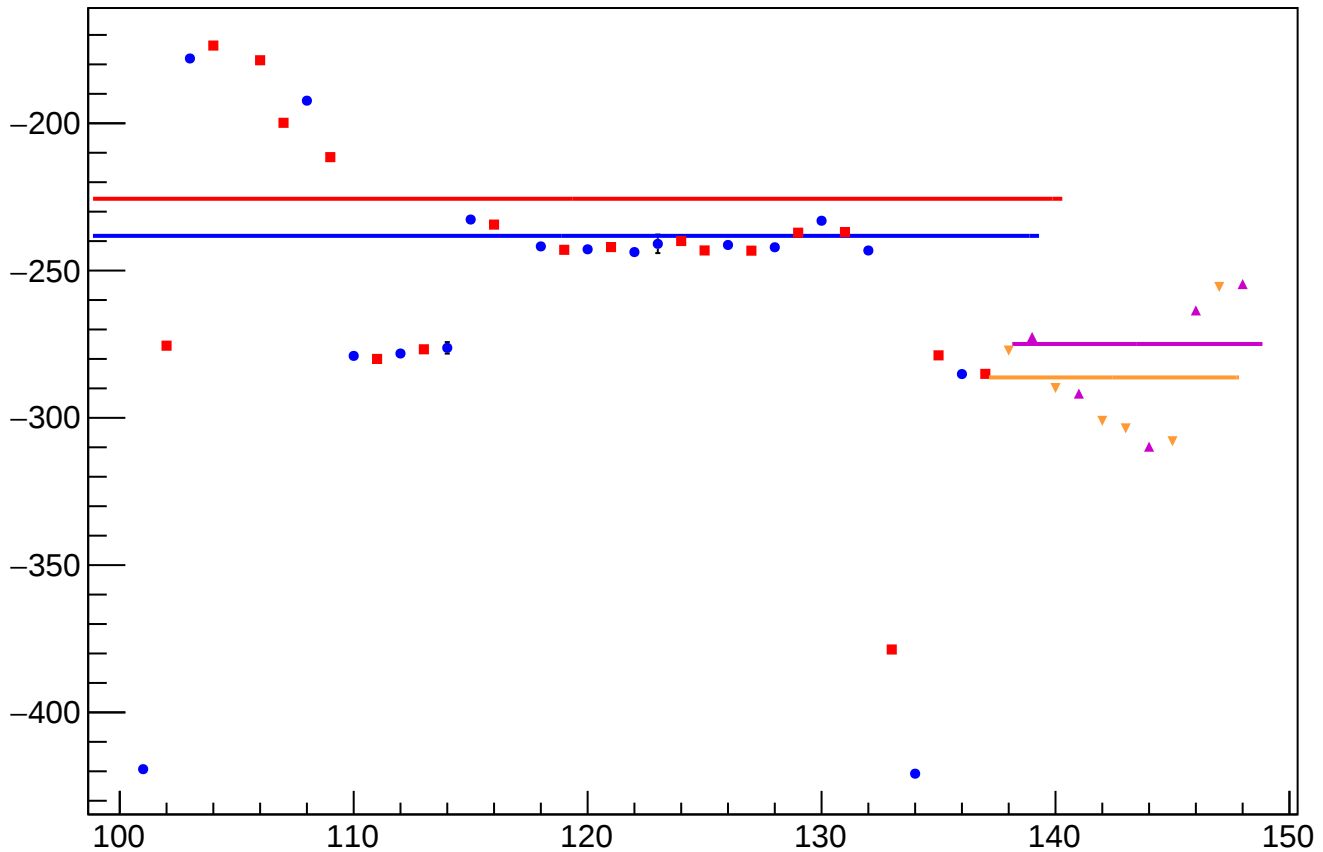
Left In: 107.940 $\pm$ 3.225  $\chi^2$ /NDF: 178.8/4

+ sign 151.856 $\pm$ 2.256  $\chi^2$ /NDF: 1019.2/22

All: 140.828 $\pm$ 1.580  $\chi^2$ /NDF: 2021.3/45

- sign 130.204 $\pm$ 2.214  $\chi^2$ /NDF: 955.1/22

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In: -238.217+/-0.160  $\chi^2/\text{NDF}$ : 167098.2/16

Left Out: -286.281+/-0.165  $\chi^2/\text{NDF}$ : 13571.5/5

Right Out: -225.623+/-0.152  $\chi^2/\text{NDF}$ : 95450.2/17

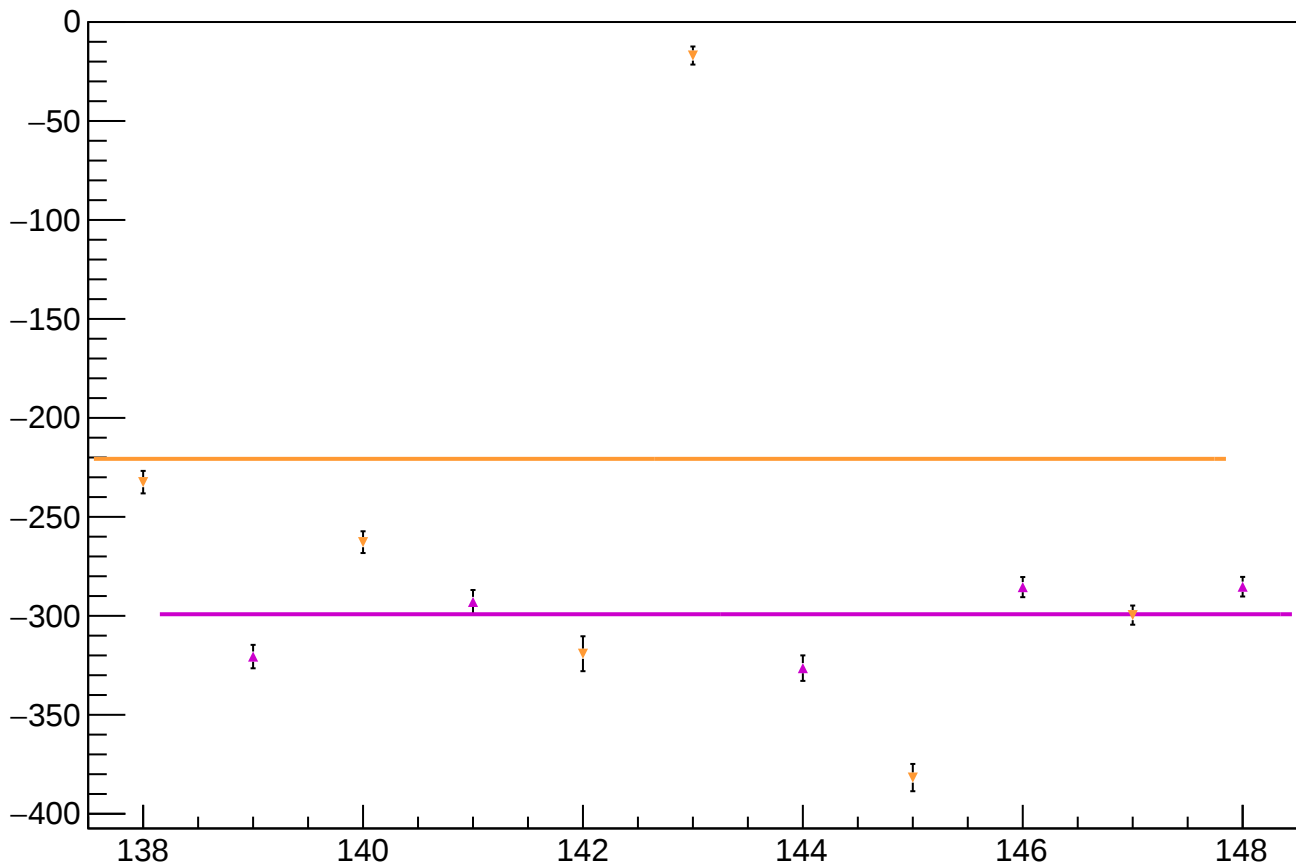
Left In: -274.923+/-0.165  $\chi^2/\text{NDF}$ : 13376.5/4

+ sign -261.484+/-0.115  $\chi^2/\text{NDF}$ : 224320.1/22

All: -254.616+/-0.080  $\chi^2/\text{NDF}$ : 388379.2/45

- sign -248.128+/-0.112  $\chi^2/\text{NDF}$ : 157119.3/22

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -220.686+/-2.302  $\chi^2/\text{NDF}$ : 2993.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

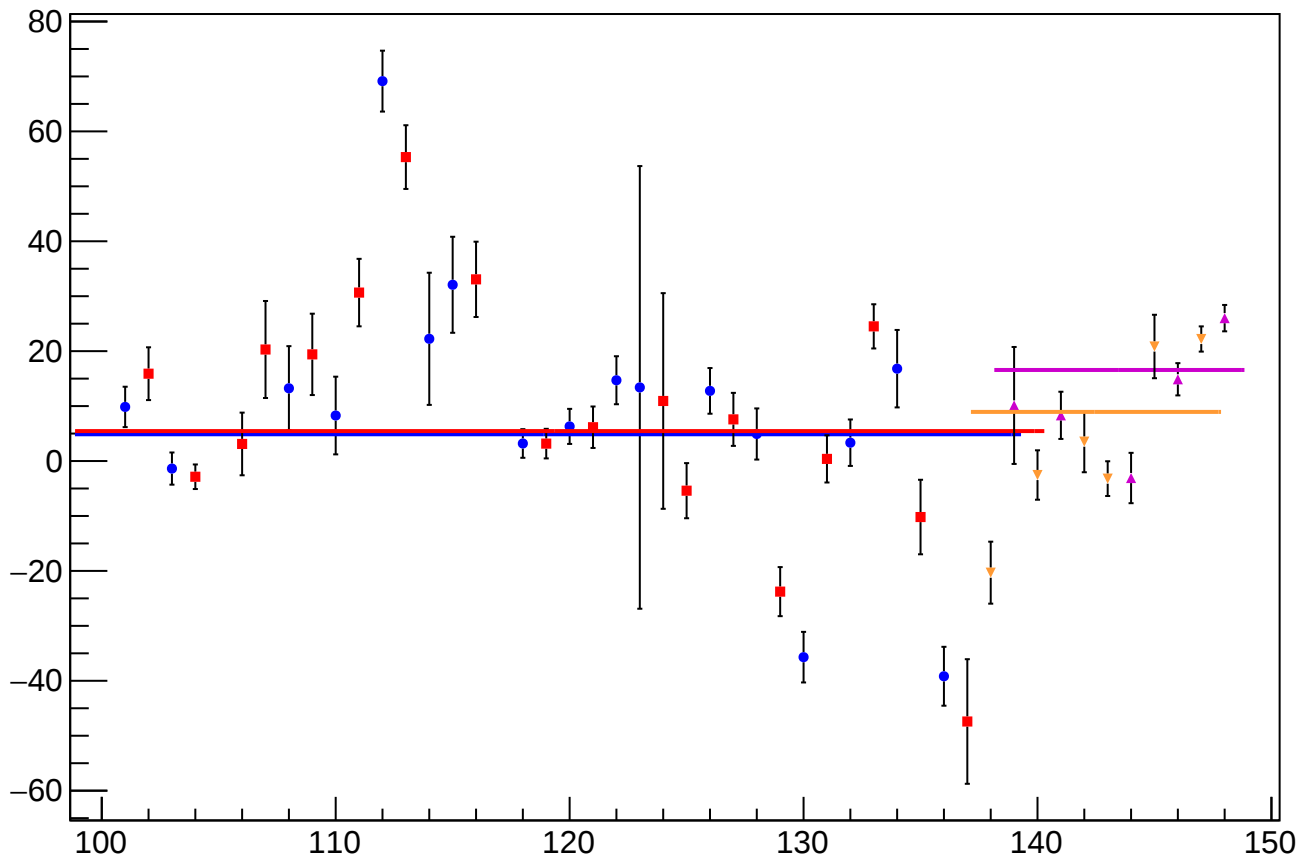
Left In: -299.190+/-2.503  $\chi^2/\text{NDF}$ : 47.2/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -256.655+/-1.694  $\chi^2/\text{NDF}$ : 3573.6/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.870 \pm 1.091$   $\chi^2/\text{NDF}: 311.5/16$

Left Out:  $8.943 \pm 1.520$   $\chi^2/\text{NDF}: 86.8/5$

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}: 231.5/17$

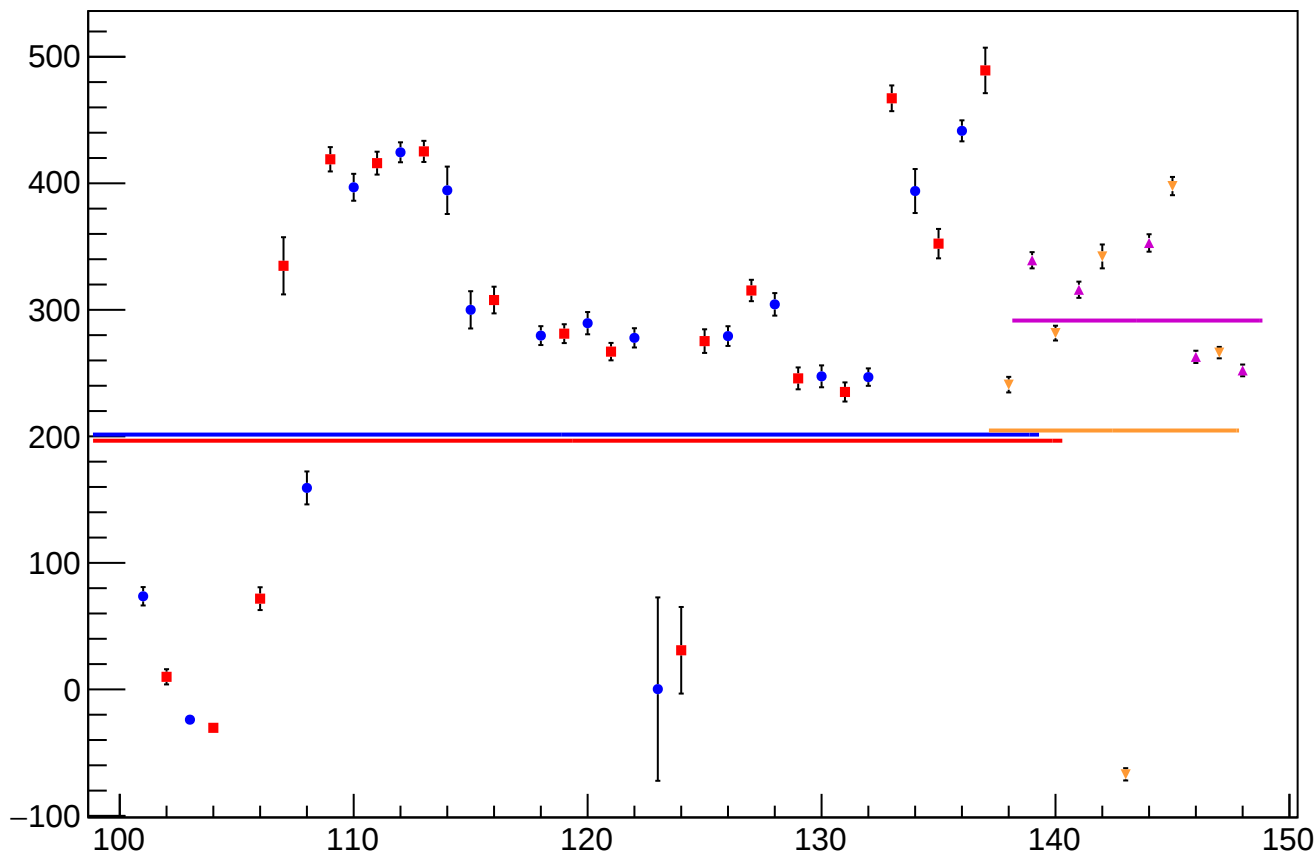
Left In:  $16.574 \pm 1.581$   $\chi^2/\text{NDF}: 38.3/4$

+ sign  $6.254 \pm 0.886$   $\chi^2/\text{NDF}: 403.1/22$

All:  $7.601 \pm 0.627$   $\chi^2/\text{NDF}: 711.5/45$

- sign  $8.950 \pm 0.887$   $\chi^2/\text{NDF}: 303.8/22$

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 201.407 $\pm$ 1.974  $\chi^2$ /NDF: 6740.4/16

Left Out: 204.622 $\pm$ 2.376  $\chi^2$ /NDF:4438.7/5

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

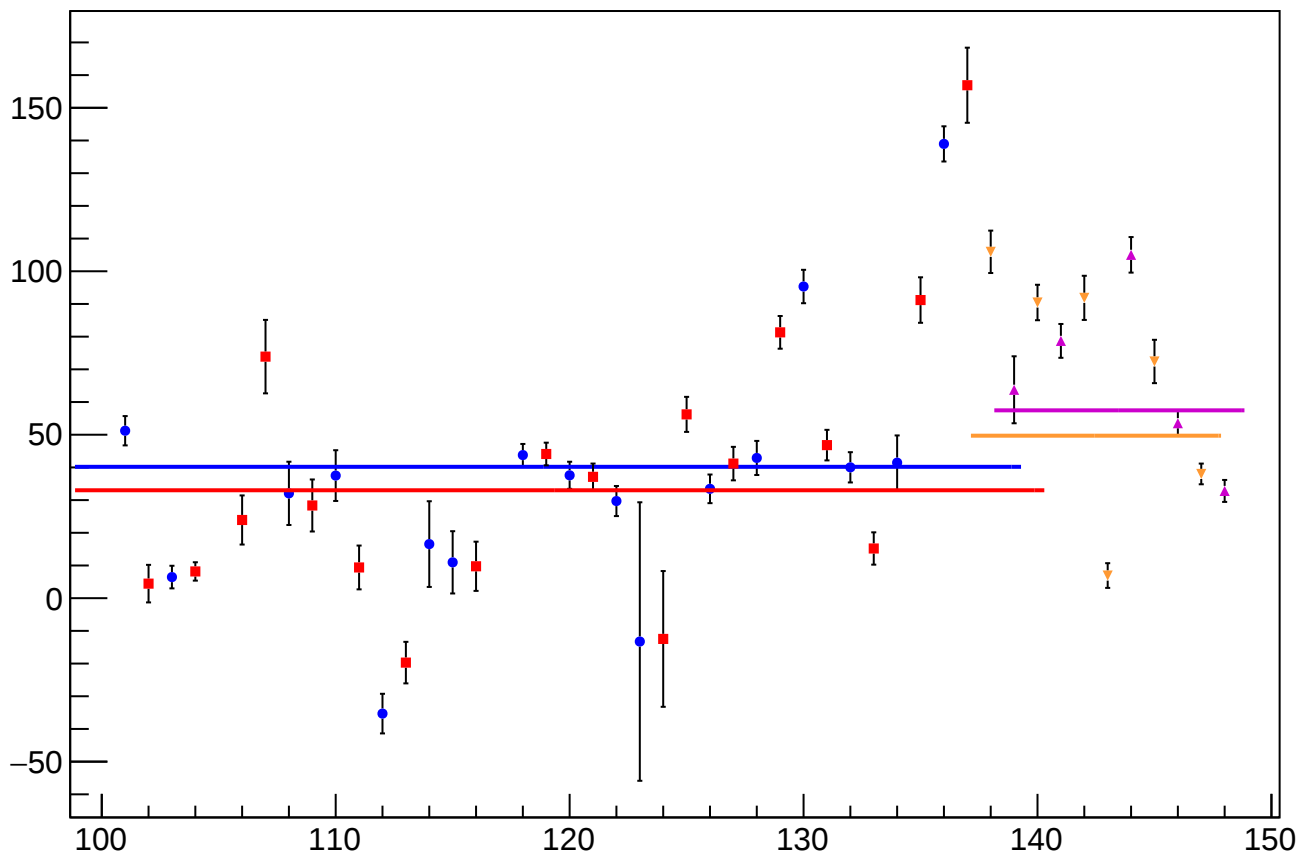
Left In: 291.539 $\pm$ 2.511  $\chi^2$ /NDF:255.9/4

+ sign 202.719 $\pm$ 1.518  $\chi^2$ /NDF: 11180.2/22

All: 217.166 $\pm$ 1.078  $\chi^2$ /NDF: 20695.5/45

- sign 231.856 $\pm$ 1.531  $\chi^2$ /NDF: 9332.7/22

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.183+/-1.270  $\chi^2/\text{NDF}$ : 734.0/16

Left Out: 49.705+/-1.916  $\chi^2/\text{NDF}$ : 324.2/5

Right Out: 33.009+/-1.253  $\chi^2/\text{NDF}$ : 547.2/17

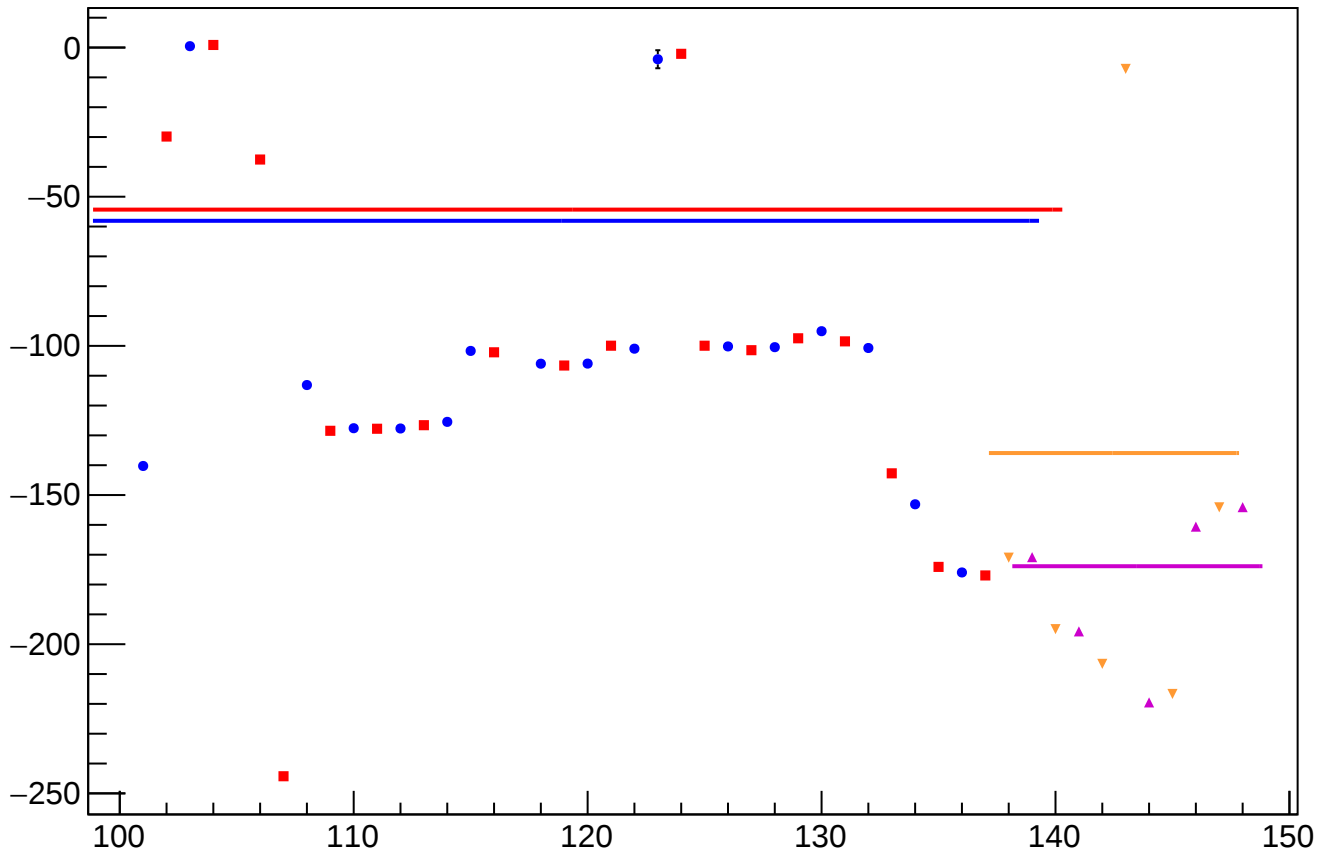
Left In: 57.457+/-2.042  $\chi^2/\text{NDF}$ : 148.7/4

+ sign 43.088+/-1.059  $\chi^2/\text{NDF}$ : 1075.3/22

All: 41.407+/-0.752  $\chi^2/\text{NDF}$ : 1880.4/45

- sign 39.696+/-1.068  $\chi^2/\text{NDF}$ : 800.0/22

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-58.077 \pm 0.062$   $\chi^2/\text{NDF}: 1104437.7/16$

Left Out:  $-135.923 \pm 0.100$   $\chi^2/\text{NDF}: 630569.1/5$

Right Out:  $-54.323 \pm 0.060$   $\chi^2/\text{NDF}: 991053.6/17$

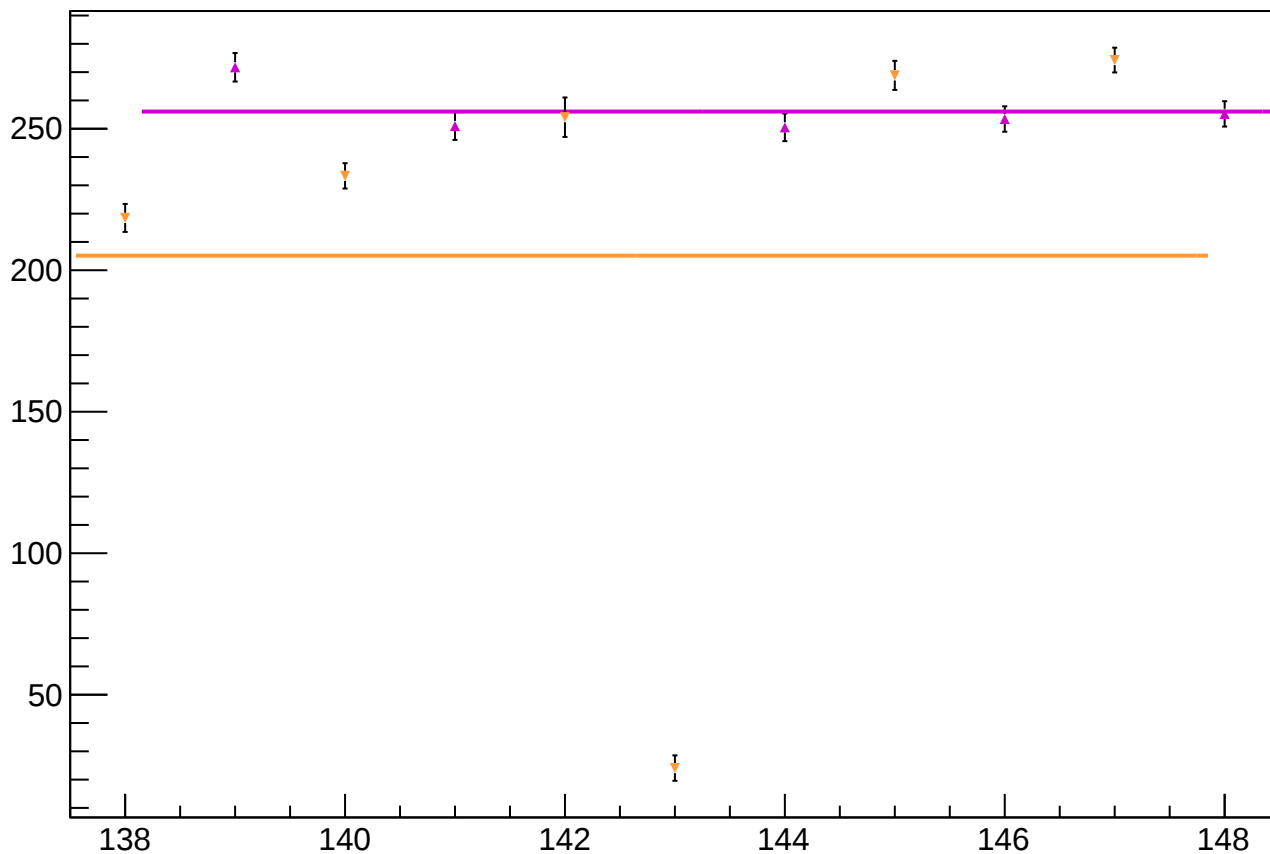
Left In:  $-173.858 \pm 0.105$   $\chi^2/\text{NDF}: 43546.7/4$

+ sign  $-79.431 \pm 0.052$   $\chi^2/\text{NDF}: 2172797.5/22$

All:  $-81.756 \pm 0.037$   $\chi^2/\text{NDF}: 4184779.7/45$

- sign  $-84.071 \pm 0.052$   $\chi^2/\text{NDF}: 2008067.1/22$

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 205.159+/-1.996  $\chi^2/\text{NDF}$ : 2124.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

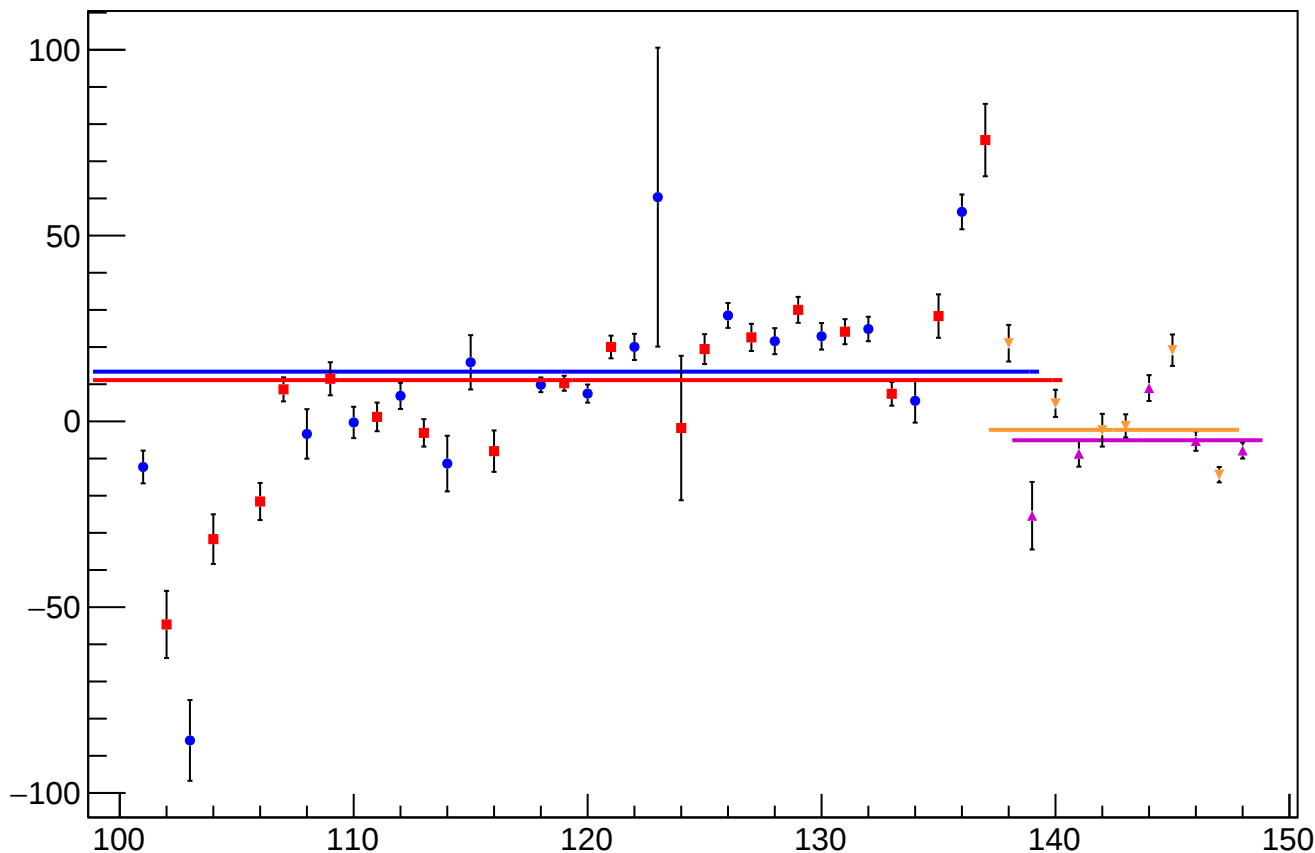
Left In: 256.063+/-2.120  $\chi^2/\text{NDF}$ : 12.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 229.080+/-1.453  $\chi^2/\text{NDF}$ : 2442.5/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $13.385 \pm 0.921$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $-2.285 \pm 1.339$   $\chi^2/\text{NDF}$ : 85.8/5

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

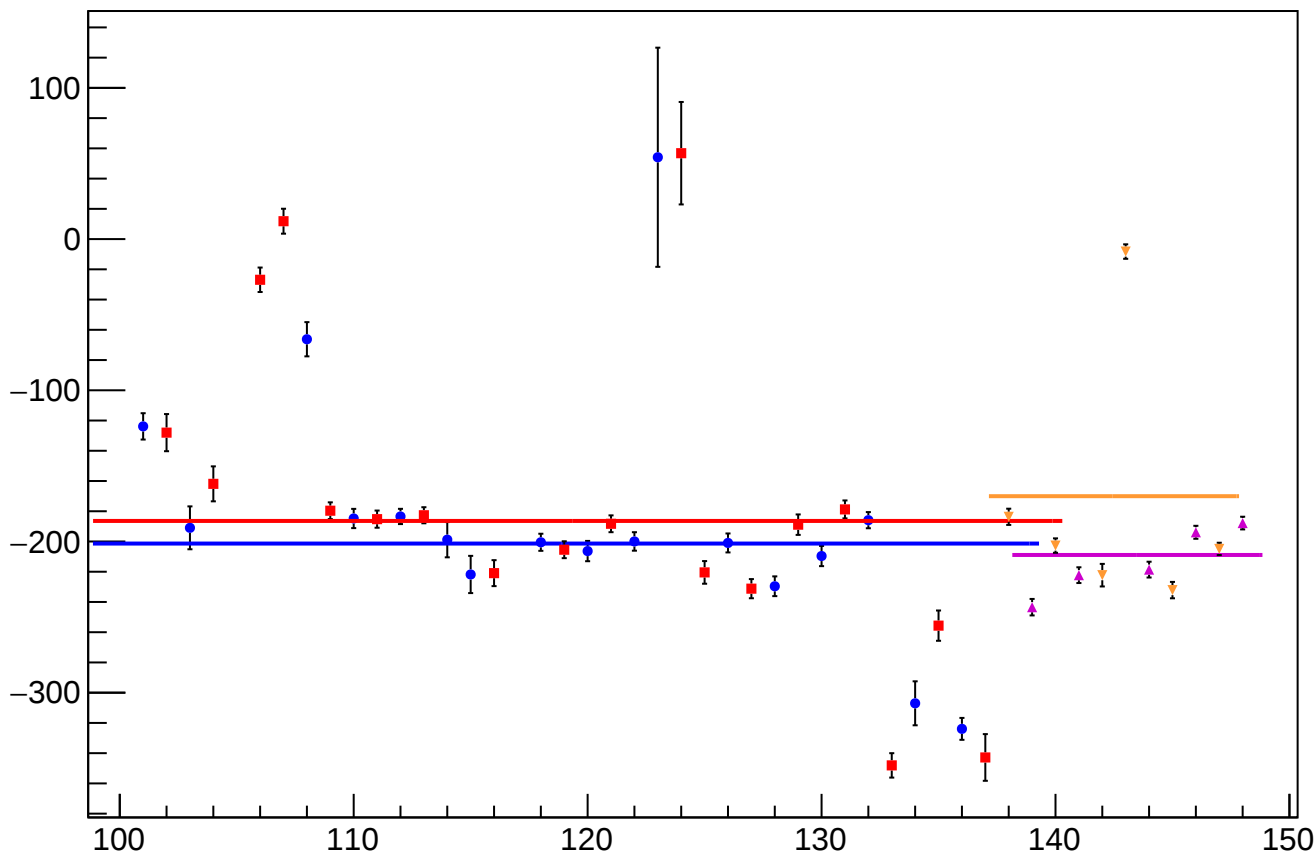
Left In:  $-5.080 \pm 1.368$   $\chi^2/\text{NDF}$ : 24.0/4

+ sign  $8.349 \pm 0.759$   $\chi^2/\text{NDF}$ : 472.9/22

All:  $7.226 \pm 0.537$   $\chi^2/\text{NDF}$ : 890.1/45

- sign  $6.097 \pm 0.761$   $\chi^2/\text{NDF}$ : 412.8/22

# 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:  $-170.042 \pm 2.067$   $\chi^2/\text{NDF}$ : 1446.7/5

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

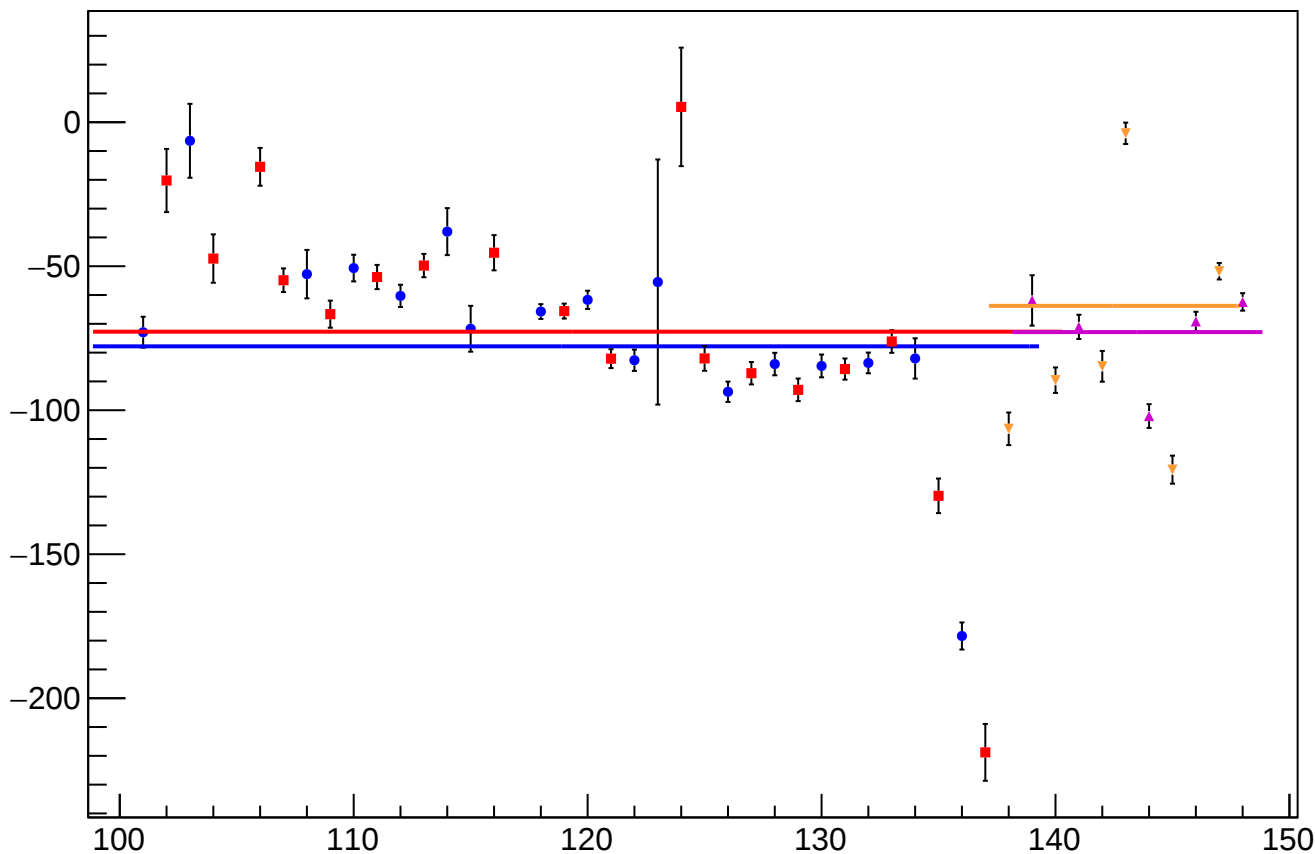
Left In:  $-208.915 \pm 2.141$   $\chi^2/\text{NDF}$ : 87.6/4

+ sign  $-187.995 \pm 1.350$   $\chi^2/\text{NDF}$ : 2203.3/22

All:  $-191.610 \pm 0.949$   $\chi^2/\text{NDF}$ : 4072.2/45

- sign  $-195.134 \pm 1.333$   $\chi^2/\text{NDF}$ : 1854.8/22

# 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:  $-63.766 \pm 1.680$   $\chi^2/\text{NDF}$ : 520.3/5

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

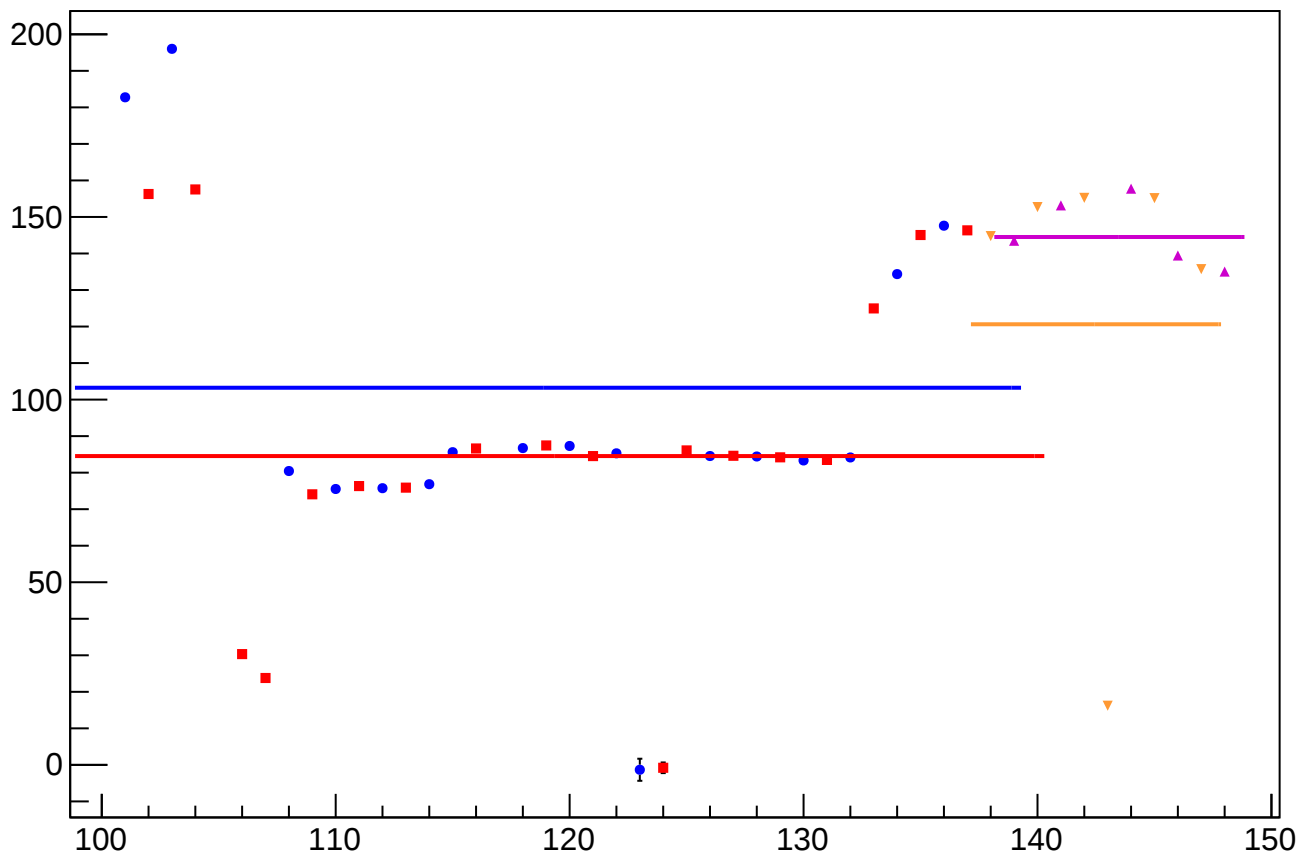
Left In:  $-72.870 \pm 1.753$   $\chi^2/\text{NDF}$ : 64.8/4

+ sign  $-73.775 \pm 0.901$   $\chi^2/\text{NDF}$ : 1226.5/22

All:  $-73.273 \pm 0.638$   $\chi^2/\text{NDF}$ : 1890.8/45

- sign  $-72.770 \pm 0.903$   $\chi^2/\text{NDF}$ : 663.8/22

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 103.247 $\pm$ 0.070  $\chi^2$ /NDF: 273390.3/16

Left Out: 120.622 $\pm$ 0.087  $\chi^2$ /NDF: 377272.2/5

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

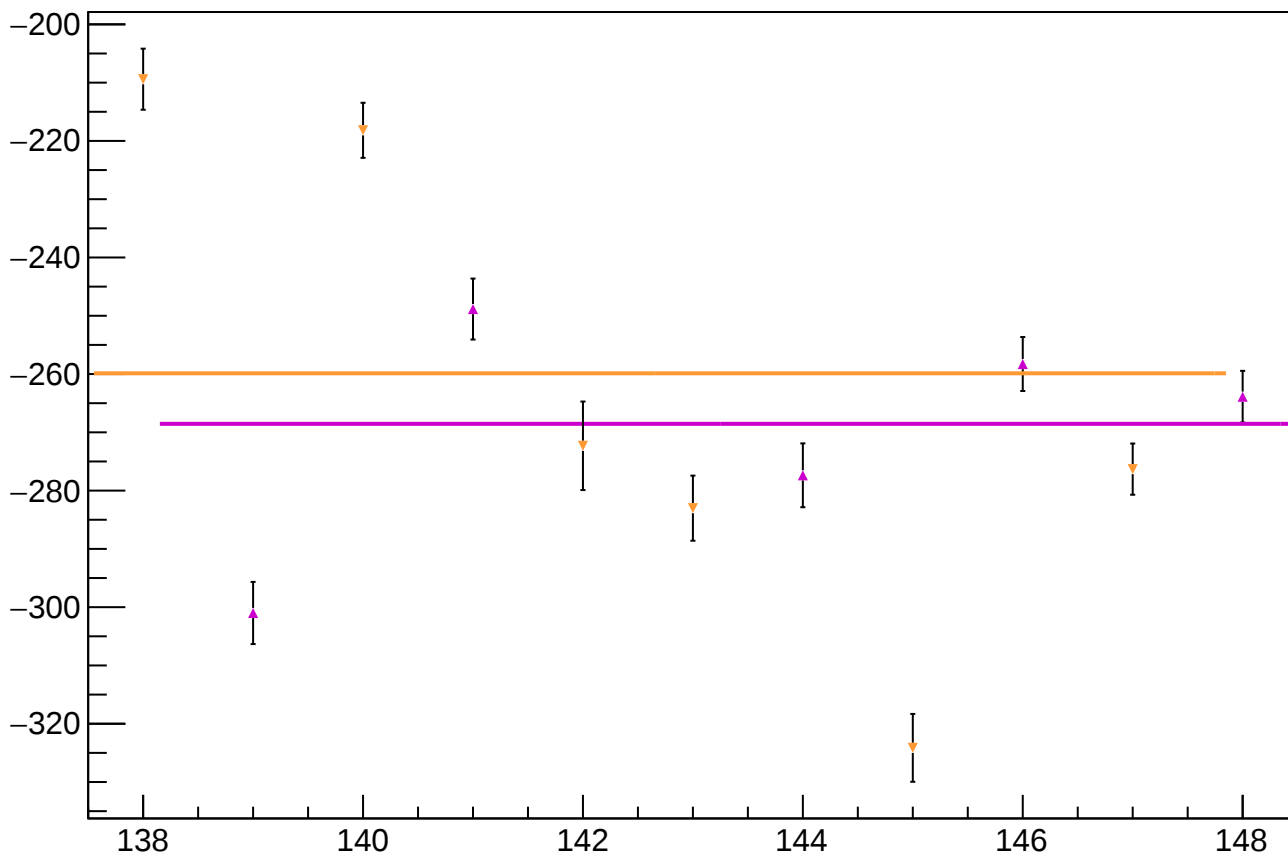
Left In: 144.514 $\pm$ 0.089  $\chi^2$ /NDF: 8497.4/4

+ sign 110.136 $\pm$ 0.055  $\chi^2$ /NDF: 674771.1/22

All: 107.341 $\pm$ 0.038  $\chi^2$ /NDF: 1397304.1/45

- sign 104.818 $\pm$ 0.052  $\chi^2$ /NDF: 717571.6/22

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -259.874+/-2.172  $\chi^2/\text{NDF}$ : 326.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

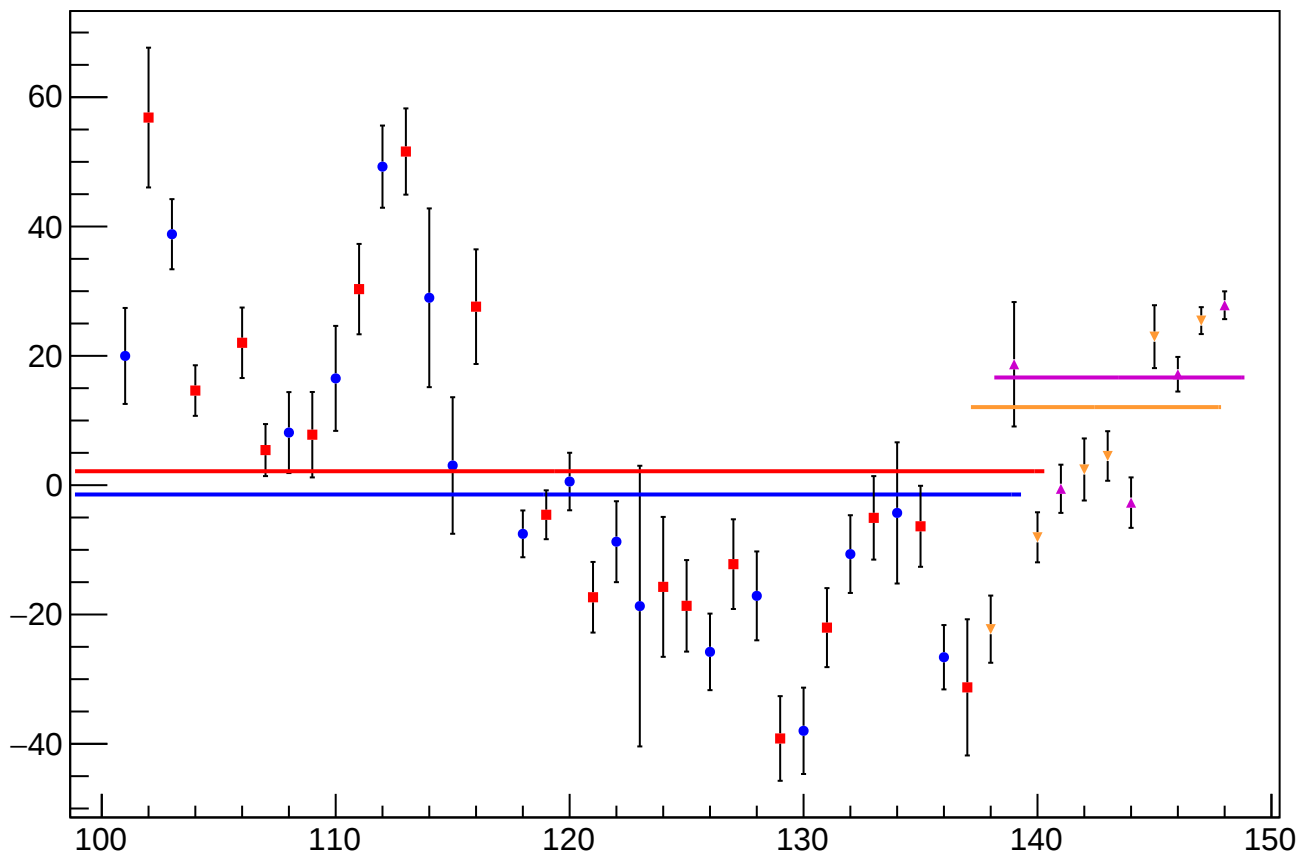
Left In: -268.542+/-2.222  $\chi^2/\text{NDF}$ : 59.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -264.110+/-1.553  $\chi^2/\text{NDF}$ : 393.9/10

- 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:  $12.073 \pm 1.431$   $\chi^2/\text{NDF}$ : 125.0/5

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}$ : 230.2/17

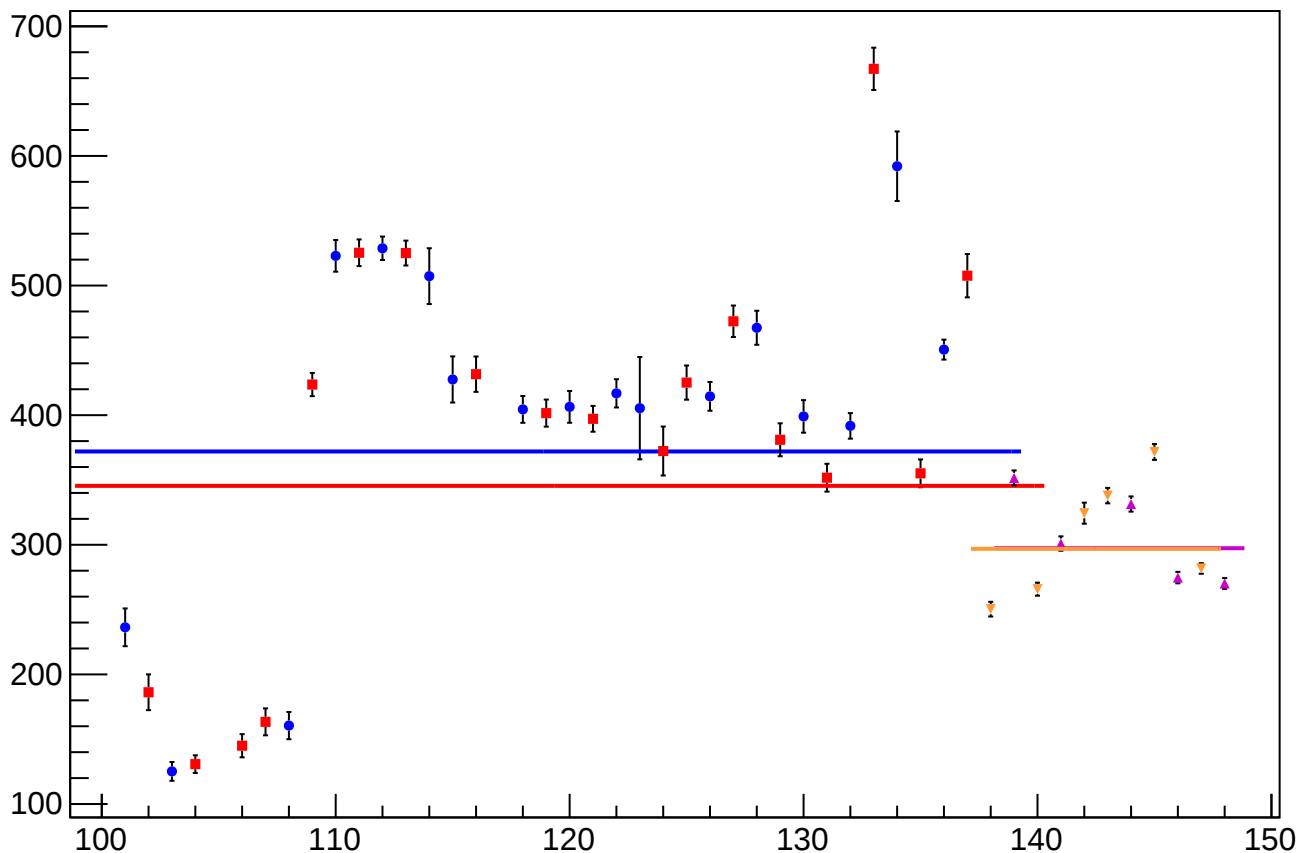
Left In:  $16.655 \pm 1.408$   $\chi^2/\text{NDF}$ : 73.0/4

+ sign  $5.707 \pm 1.041$   $\chi^2/\text{NDF}$ : 391.4/22

All:  $7.623 \pm 0.718$   $\chi^2/\text{NDF}$ : 754.4/45

- sign  $9.369 \pm 0.993$   $\chi^2/\text{NDF}$ : 356.5/22

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 371.997 $\pm$ 2.765  $\chi^2$ /NDF: 2431.2/16

Left Out: 296.898 $\pm$ 2.236  $\chi^2$ /NDF:327.7/5

Right Out: 345.473 $\pm$ 2.564  $\chi^2$ /NDF: 3401.6/17

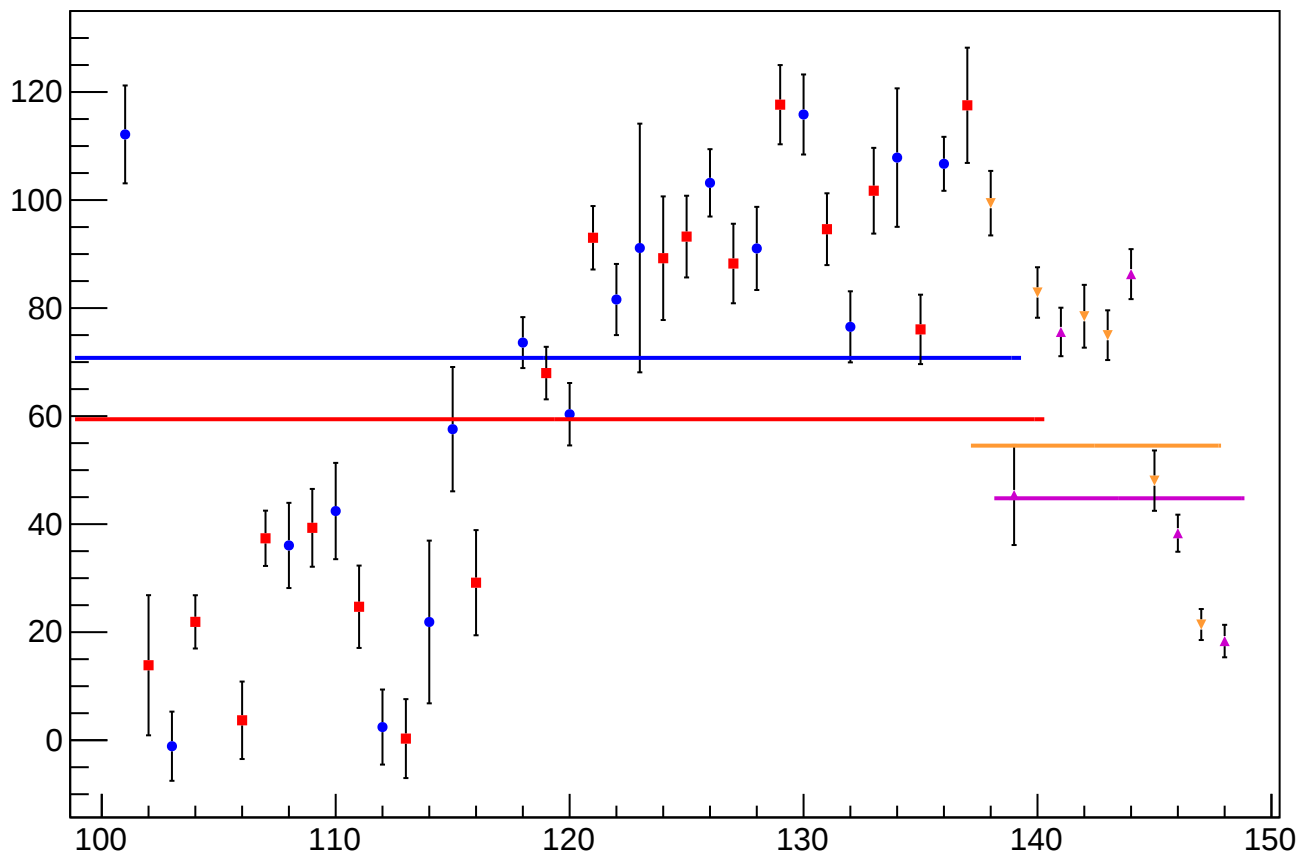
Left In: 297.355 $\pm$ 2.233  $\chi^2$ /NDF:191.6/4

+ sign 326.588 $\pm$ 1.738  $\chi^2$ /NDF: 3205.0/22

All: 322.214 $\pm$ 1.210  $\chi^2$ /NDF: 7010.8/45

- sign 318.108 $\pm$ 1.684  $\chi^2$ /NDF: 3793.5/22

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.780 $\pm$ 1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 54.535 $\pm$ 1.814  $\chi^2$ /NDF: 264.5/5

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

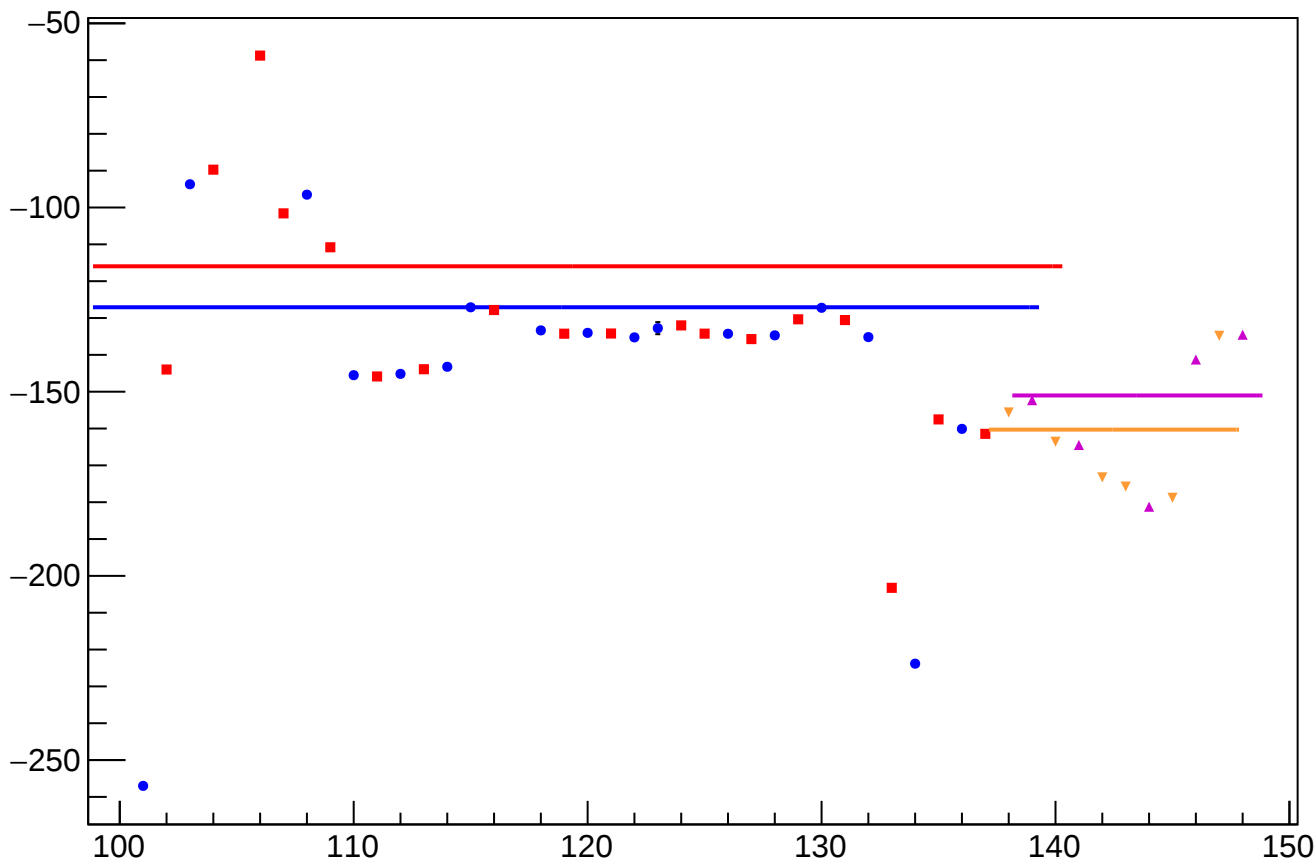
Left In: 44.787 $\pm$ 1.815  $\chi^2$ /NDF: 208.3/4

+ sign 62.964 $\pm$ 1.258  $\chi^2$ /NDF: 730.0/22

All: 57.741 $\pm$ 0.873  $\chi^2$ /NDF: 1494.1/45

- sign 52.880 $\pm$ 1.214  $\chi^2$ /NDF: 730.8/22

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -127.076 $\pm$ 0.090  $\chi^2$ /NDF: 167028.9/16

Left Out: -160.295 $\pm$ 0.095  $\chi^2$ /NDF: 29633.5/5

Right Out: -115.959 $\pm$ 0.083  $\chi^2$ /NDF: 158983.0/17

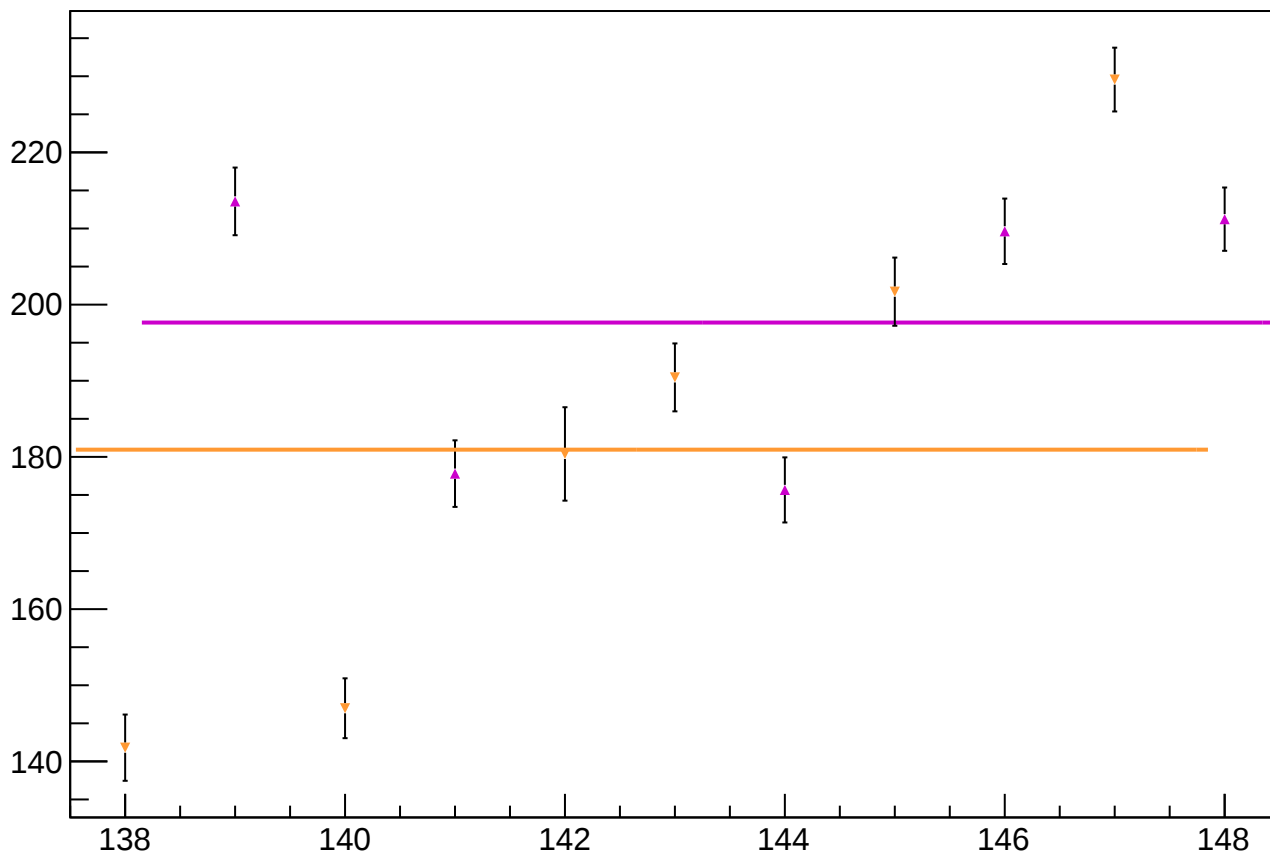
Left In: -151.023 $\pm$ 0.093  $\chi^2$ /NDF: 28341.7/4

+ sign -142.712 $\pm$ 0.065  $\chi^2$ /NDF: 261469.0/22

All: -136.800 $\pm$ 0.045  $\chi^2$ /NDF: 543245.3/45

- sign -131.434 $\pm$ 0.062  $\chi^2$ /NDF: 266058.7/22

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 180.950 $\pm$ 1.822  $\chi^2$ /NDF:316.2/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

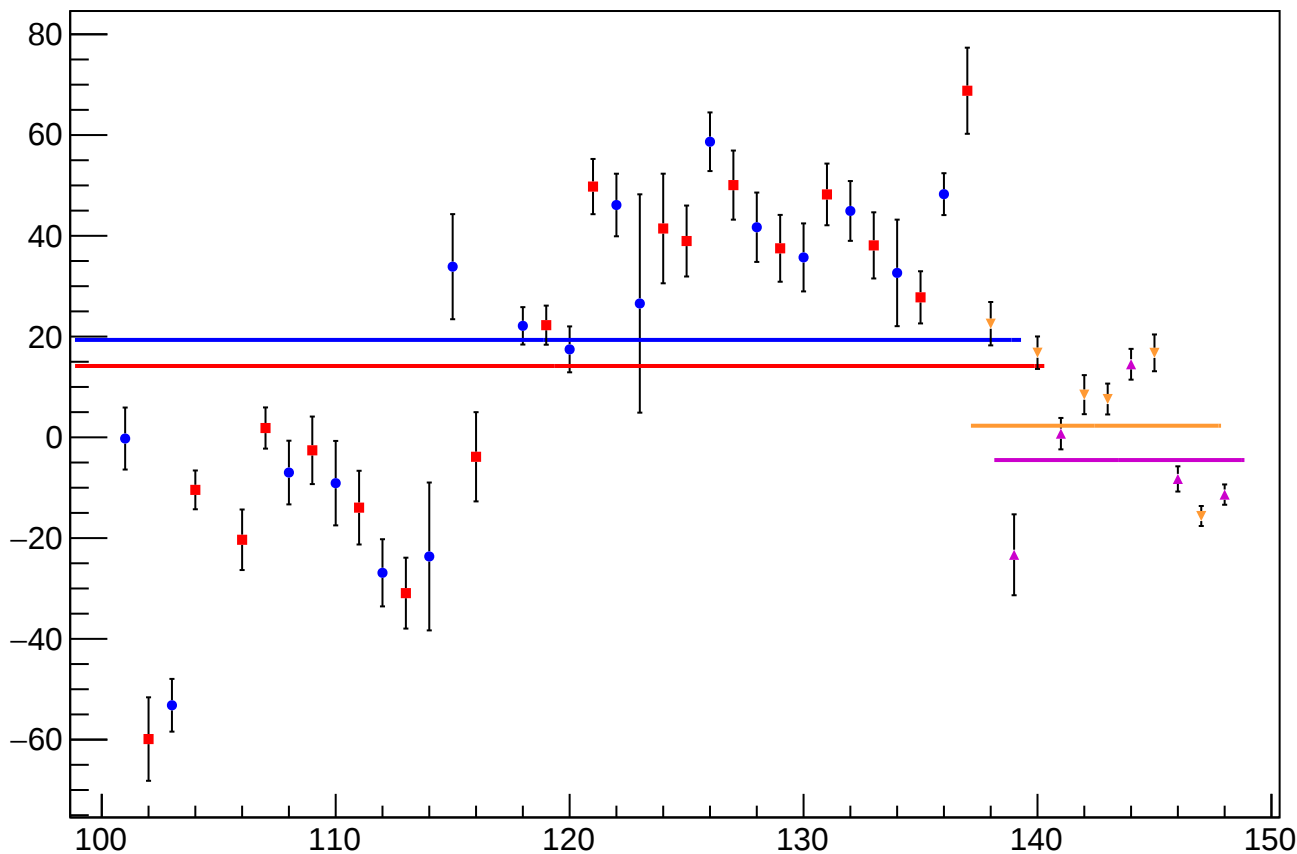
Left In: 197.646 $\pm$ 1.926  $\chi^2$ /NDF:78.3/4

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 188.836 $\pm$ 1.324  $\chi^2$ /NDF: 434.2/10

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $2.306 \pm 1.238$   $\chi^2/\text{NDF}$ : 145.0/5

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}$ : 426.0/17

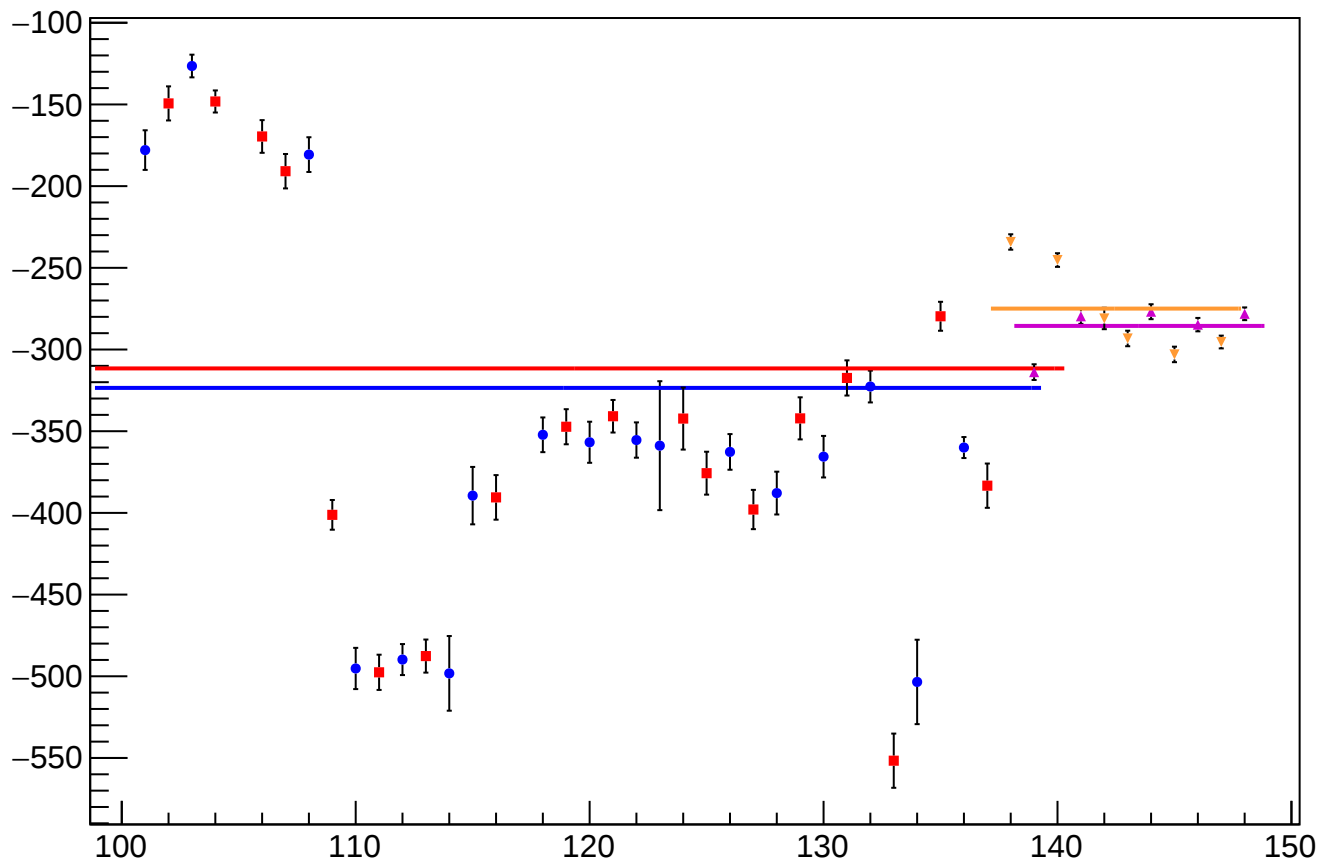
Left In:  $-4.507 \pm 1.259$   $\chi^2/\text{NDF}$ : 60.8/4

+ sign  $9.307 \pm 0.950$   $\chi^2/\text{NDF}$ : 662.6/22

All:  $6.554 \pm 0.666$   $\chi^2/\text{NDF}$ : 1265.0/45

- sign  $3.898 \pm 0.933$   $\chi^2/\text{NDF}$ : 585.9/22

# 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:  $-274.953 \pm 1.893$   $\chi^2/\text{NDF}: 203.0/5$

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}: 2243.8/17$

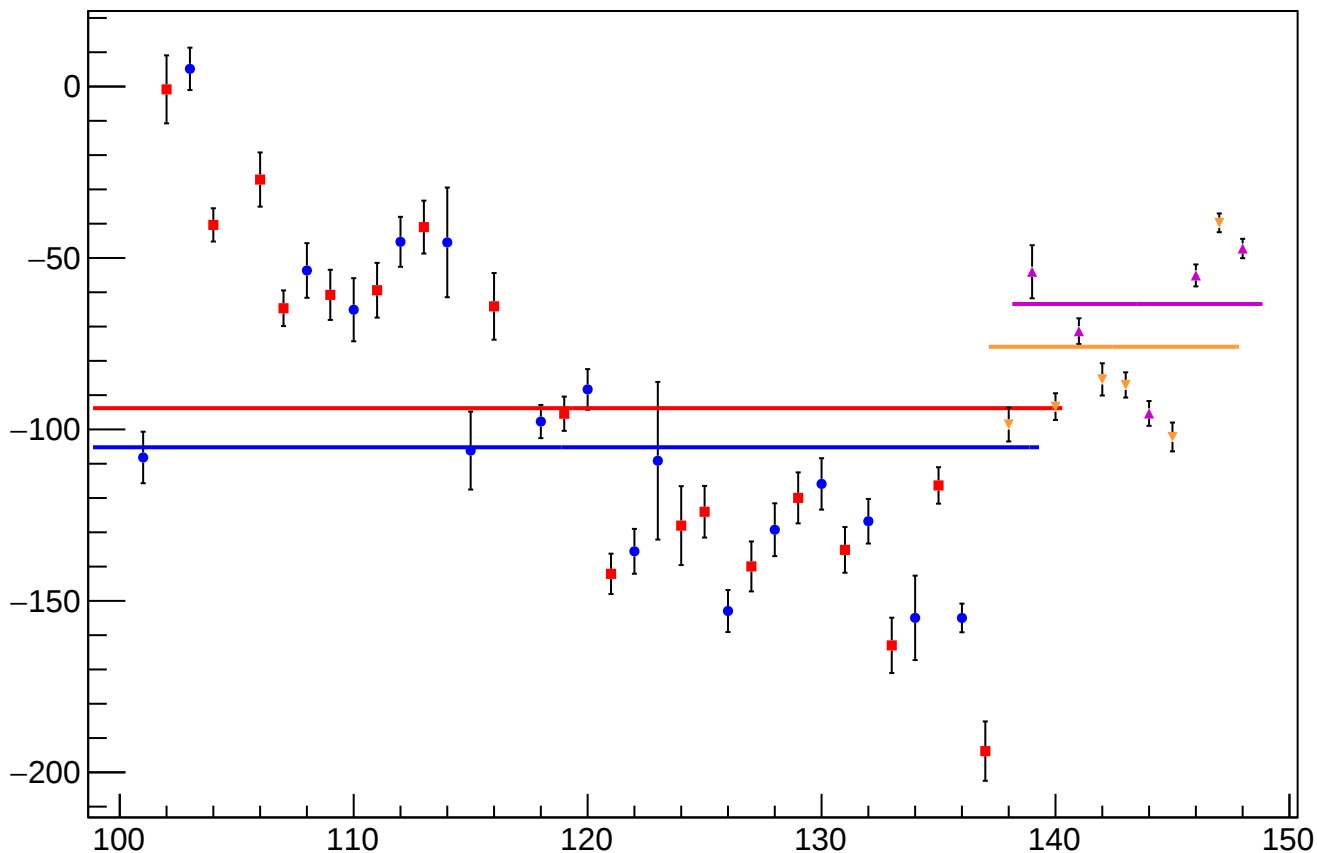
Left In:  $-285.553 \pm 1.952$   $\chi^2/\text{NDF}: 43.5/4$

+ sign  $-291.166 \pm 1.545$   $\chi^2/\text{NDF}: 2270.2/22$

All:  $-293.222 \pm 1.092$   $\chi^2/\text{NDF}: 4627.5/45$

- sign  $-295.278 \pm 1.545$   $\chi^2/\text{NDF}: 2353.7/22$

# 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:  $-75.890 \pm 1.550$   $\chi^2/\text{NDF}$ : 267.8/5

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

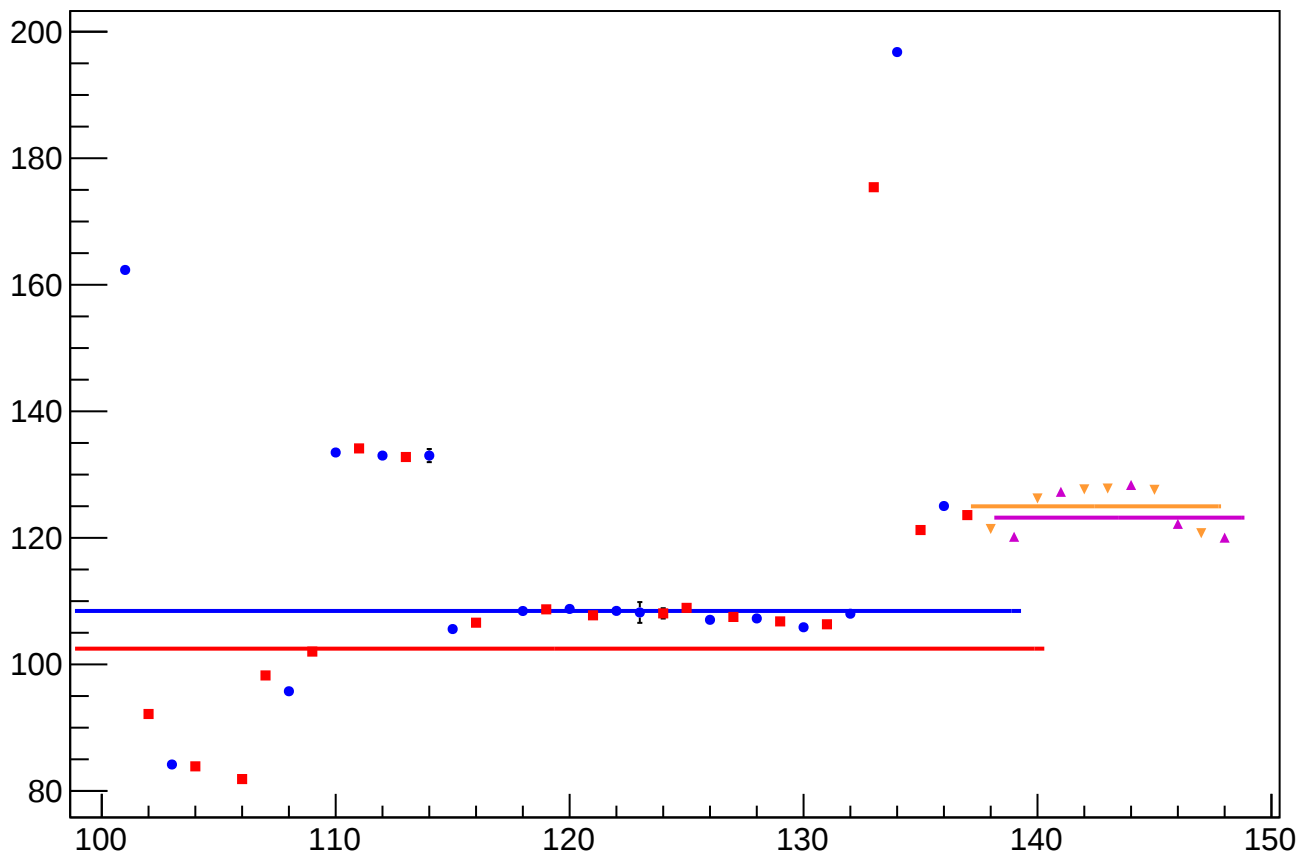
Left In:  $-63.413 \pm 1.607$   $\chi^2/\text{NDF}$ : 123.3/4

+ sign  $-89.227 \pm 1.144$   $\chi^2/\text{NDF}$ : 1166.1/22

All:  $-83.865 \pm 0.807$   $\chi^2/\text{NDF}$ : 2326.7/45

- sign  $-78.566 \pm 1.138$   $\chi^2/\text{NDF}$ : 1117.0/22

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 124.984 $\pm$ 0.080  $\chi^2$ /NDF:1456.7/5

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

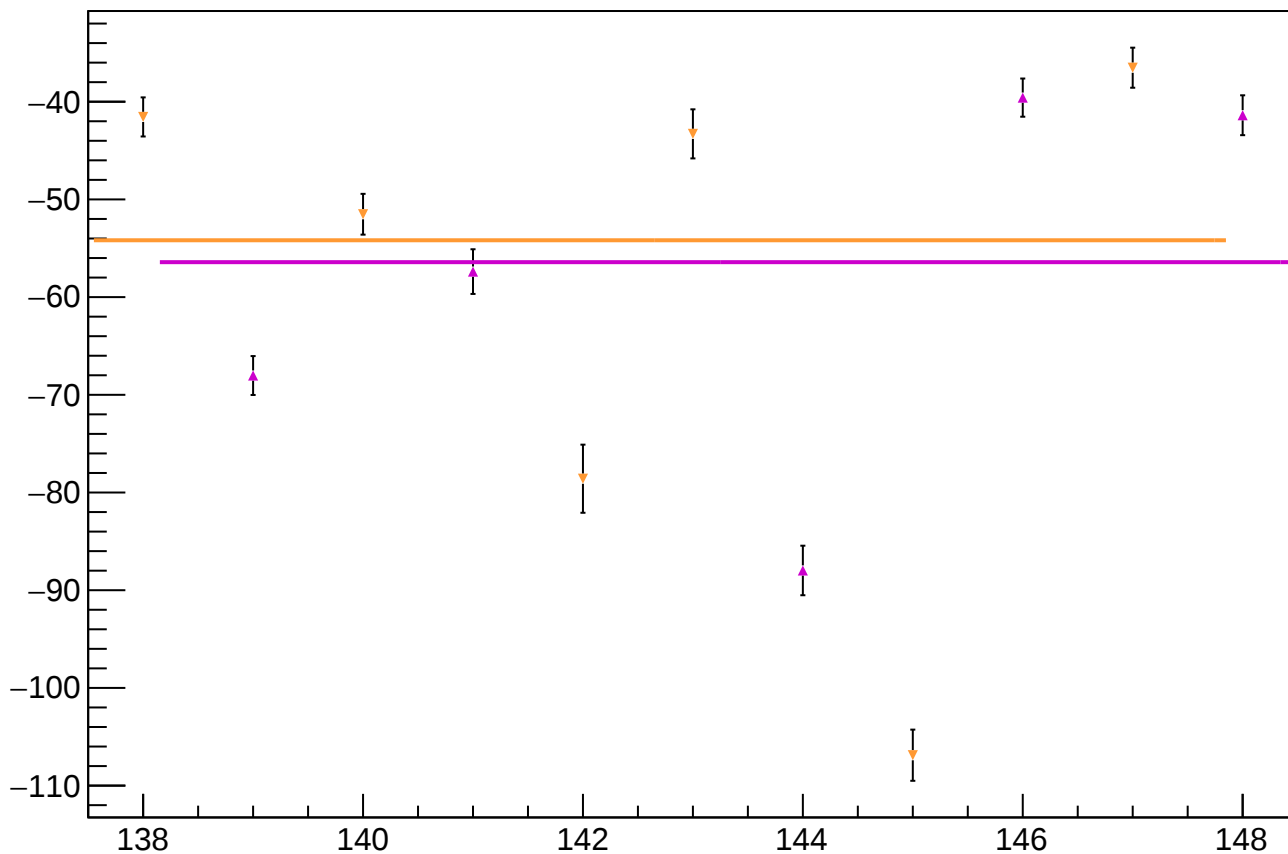
Left In: 123.195 $\pm$ 0.081  $\chi^2$ /NDF:1842.0/4

+ sign 117.243 $\pm$ 0.058  $\chi^2$ /NDF: 94949.5/22

All: 114.893 $\pm$ 0.041  $\chi^2$ /NDF: 186073.1/45

- sign 112.636 $\pm$ 0.057  $\chi^2$ /NDF: 87906.5/22

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -54.182+/-0.952  $\chi^2/\text{NDF}$ : 588.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

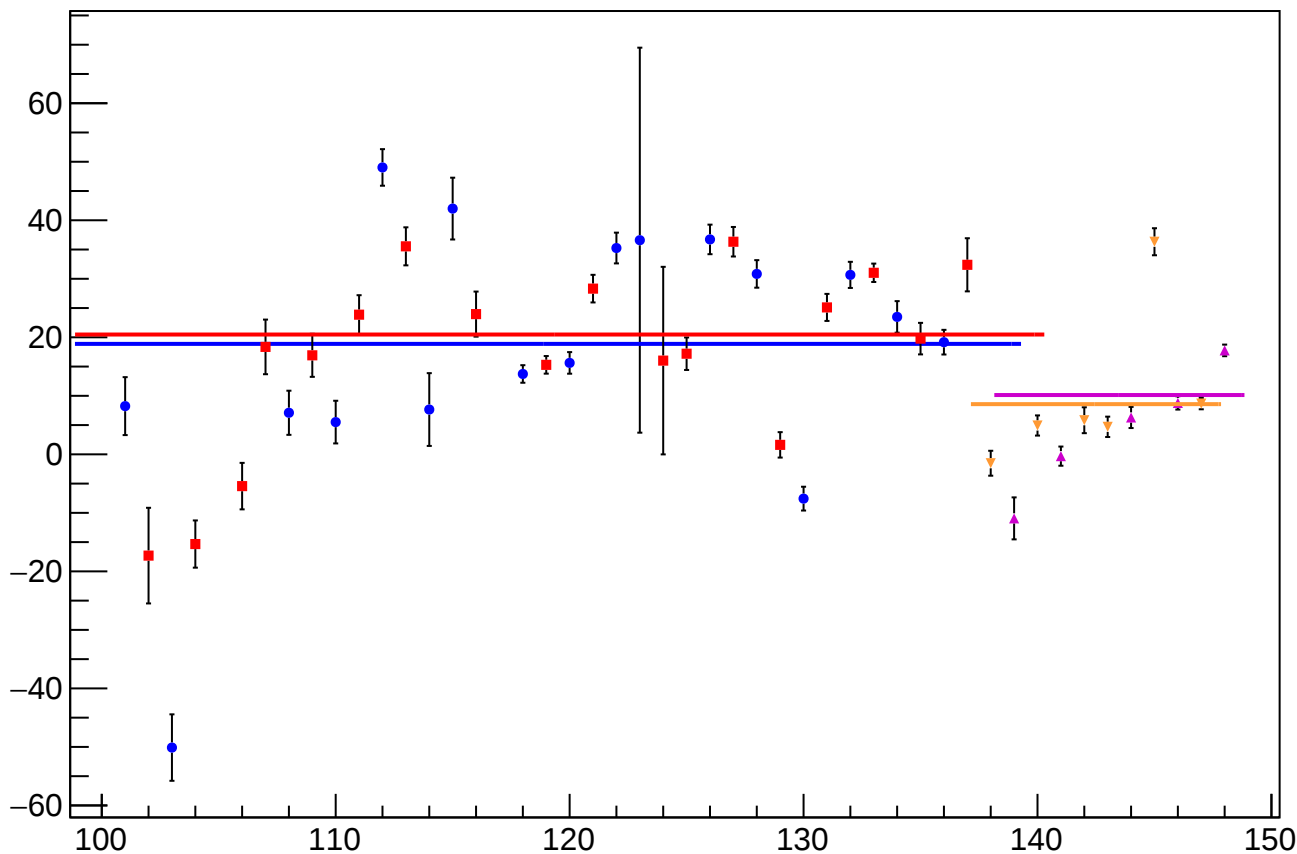
Left In: -56.423+/-0.953  $\chi^2/\text{NDF}$ : 317.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.301+/-0.673  $\chi^2/\text{NDF}$ : 908.9/10

- 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:  $8.578 \pm 0.655$   $\chi^2/\text{NDF}$ : 177.7/5

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

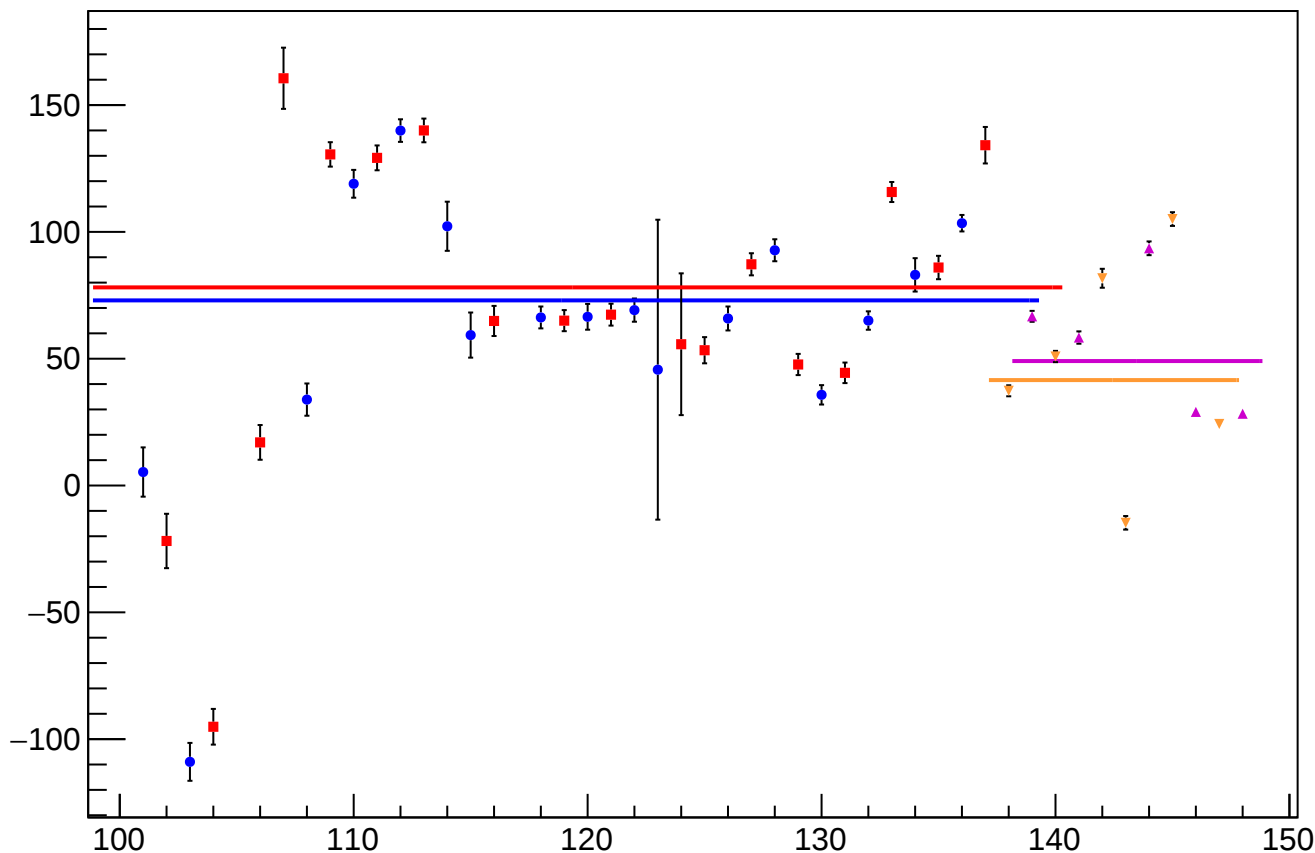
Left In:  $10.134 \pm 0.627$   $\chi^2/\text{NDF}$ : 140.1/4

+ sign  $13.809 \pm 0.459$   $\chi^2/\text{NDF}$ : 923.9/22

All:  $14.505 \pm 0.321$   $\chi^2/\text{NDF}$ : 1563.4/45

- sign  $15.170 \pm 0.449$   $\chi^2/\text{NDF}$ : 635.0/22

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 72.992 $\pm$ 1.230  $\chi^2$ /NDF: 1205.5/16

Left Out: 41.569 $\pm$ 0.983  $\chi^2$ /NDF:1211.2/5

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

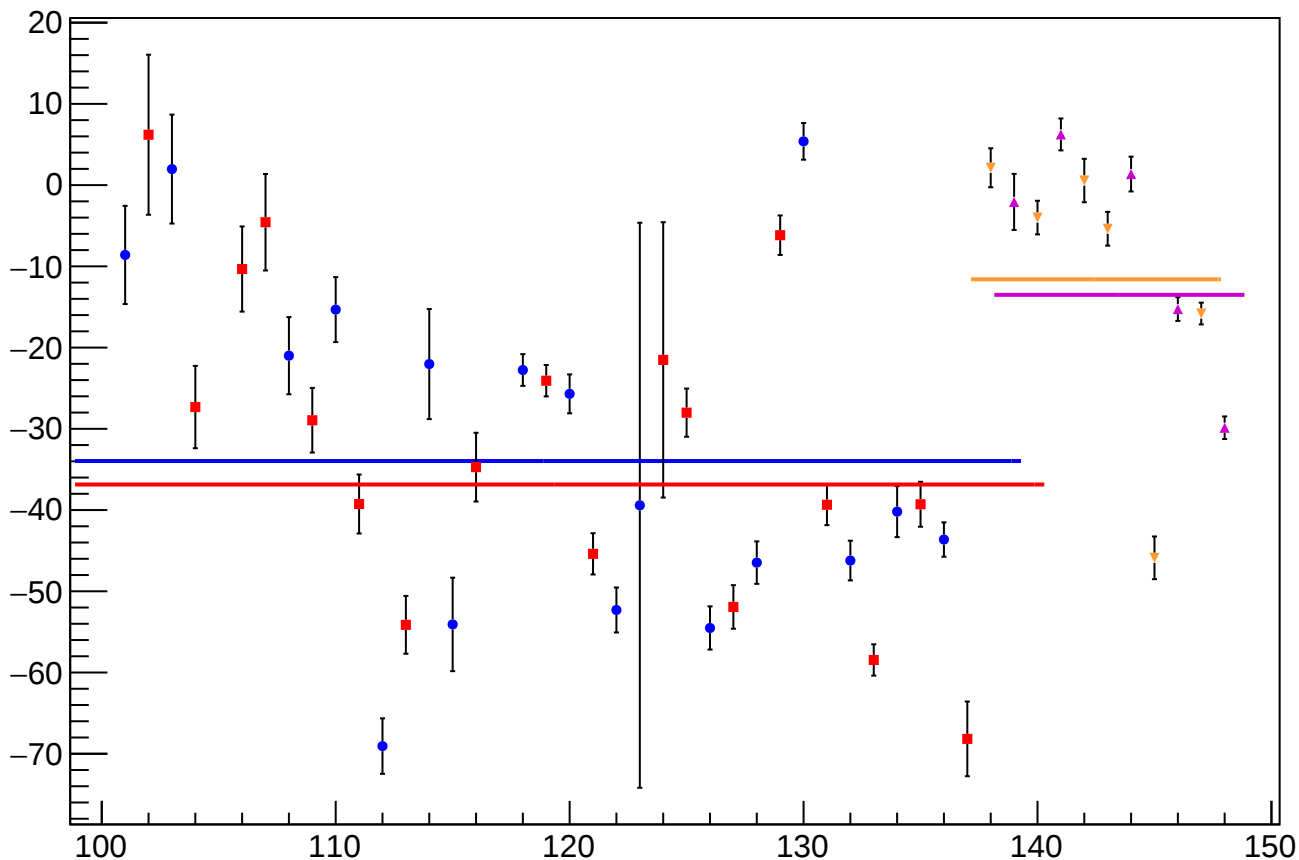
Left In: 49.073 $\pm$ 0.962  $\chi^2$ /NDF:583.4/4

+ sign 53.813 $\pm$ 0.768  $\chi^2$ /NDF: 2815.1/22

All: 57.038 $\pm$ 0.539  $\chi^2$ /NDF: 5328.1/45

- sign 60.169 $\pm$ 0.756  $\chi^2$ /NDF: 2478.2/22

# 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:  $-11.595 \pm 0.822$   $\chi^2/\text{NDF}$ : 255.6/5

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}$ : 535.3/17

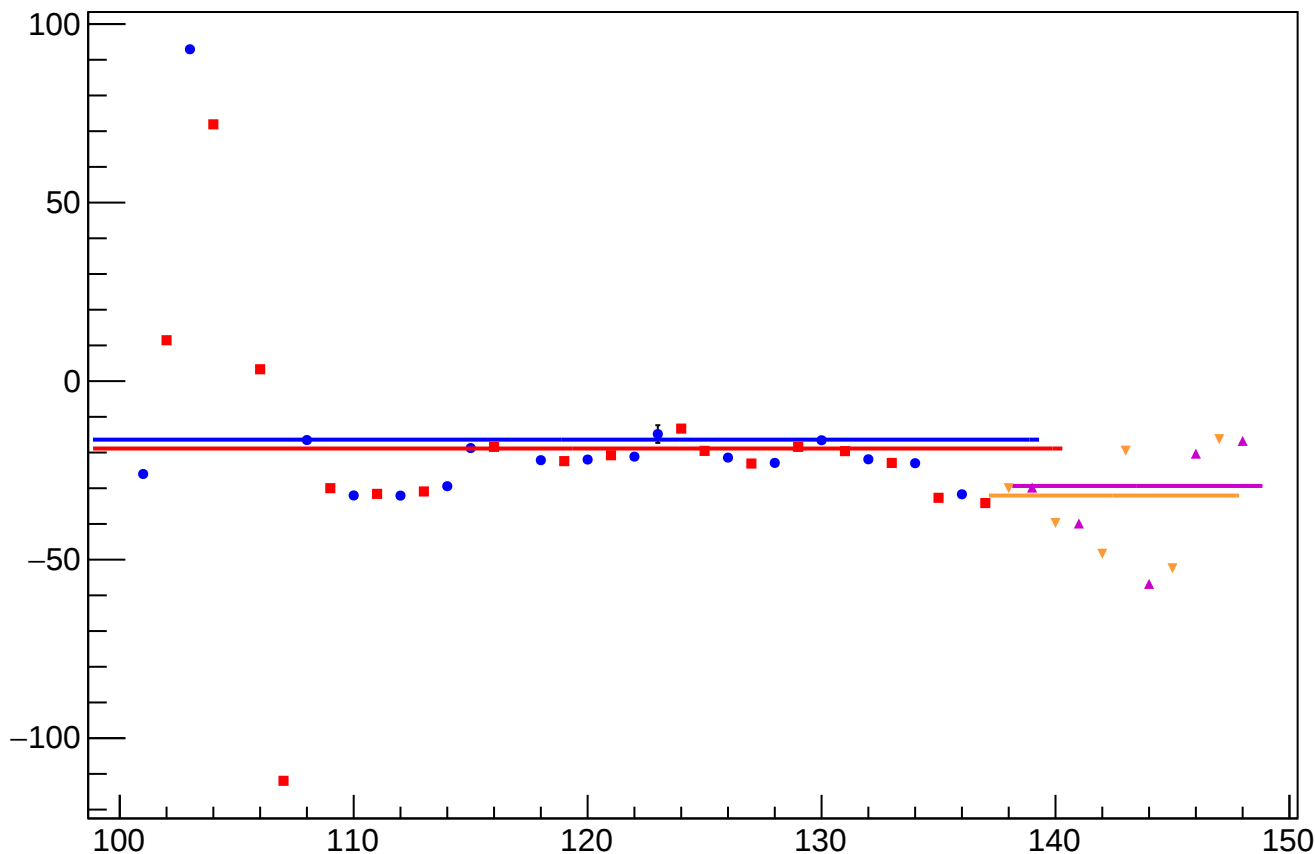
Left In:  $-13.508 \pm 0.803$   $\chi^2/\text{NDF}$ : 300.4/4

+ sign  $-23.992 \pm 0.549$   $\chi^2/\text{NDF}$ : 1387.6/22

All:  $-25.101 \pm 0.386$   $\chi^2/\text{NDF}$ : 2690.1/45

- sign  $-26.187 \pm 0.543$   $\chi^2/\text{NDF}$ : 1294.4/22

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.386 \pm 0.044$   $\chi^2/\text{NDF}: 474297.3/16$

Left Out:  $-32.046 \pm 0.041$   $\chi^2/\text{NDF}: 99363.8/5$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

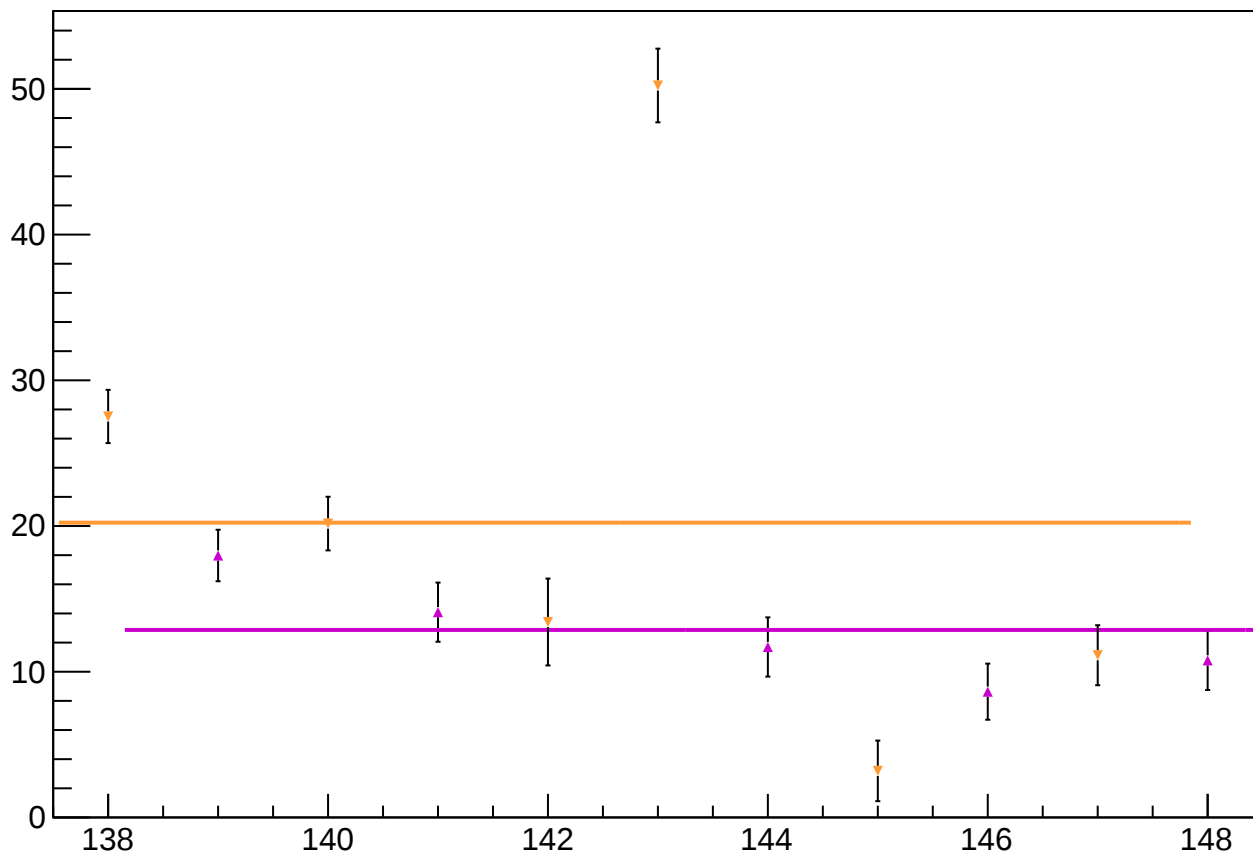
Left In:  $-29.361 \pm 0.040$   $\chi^2/\text{NDF}: 99546.1/4$

+ sign  $-24.807 \pm 0.030$   $\chi^2/\text{NDF}: 640349.5/22$

All:  $-24.802 \pm 0.021$   $\chi^2/\text{NDF}: 1203560.3/45$

- sign  $-24.798 \pm 0.030$   $\chi^2/\text{NDF}: 563210.8/22$

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 20.231+/-0.867  $\chi^2/\text{NDF}$ : 248.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

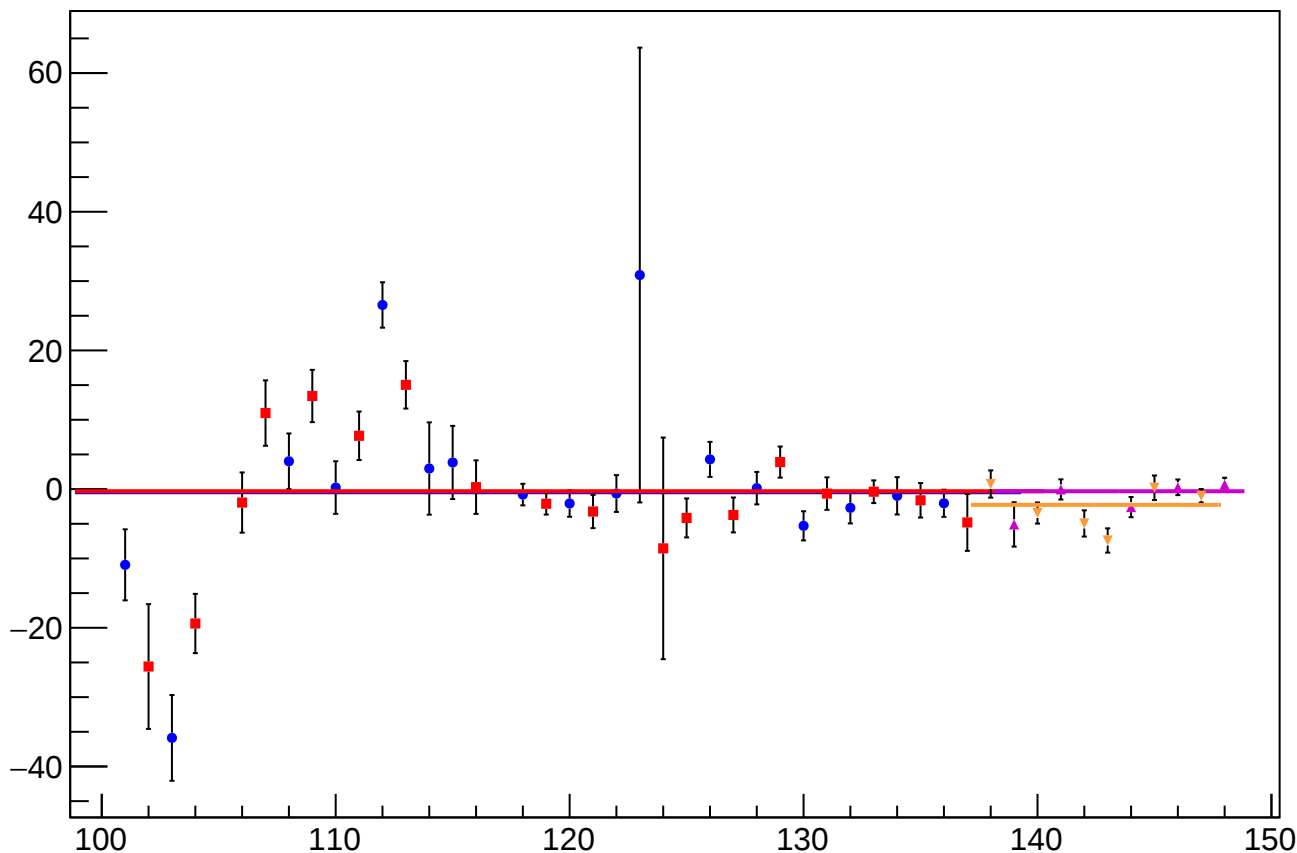
Left In: 12.870+/-0.871  $\chi^2/\text{NDF}$ : 15.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.571+/-0.614  $\chi^2/\text{NDF}$ : 299.6/10

- 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:  $-2.271 \pm 0.613$   $\chi^2/\text{NDF}$ : 17.3/5

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

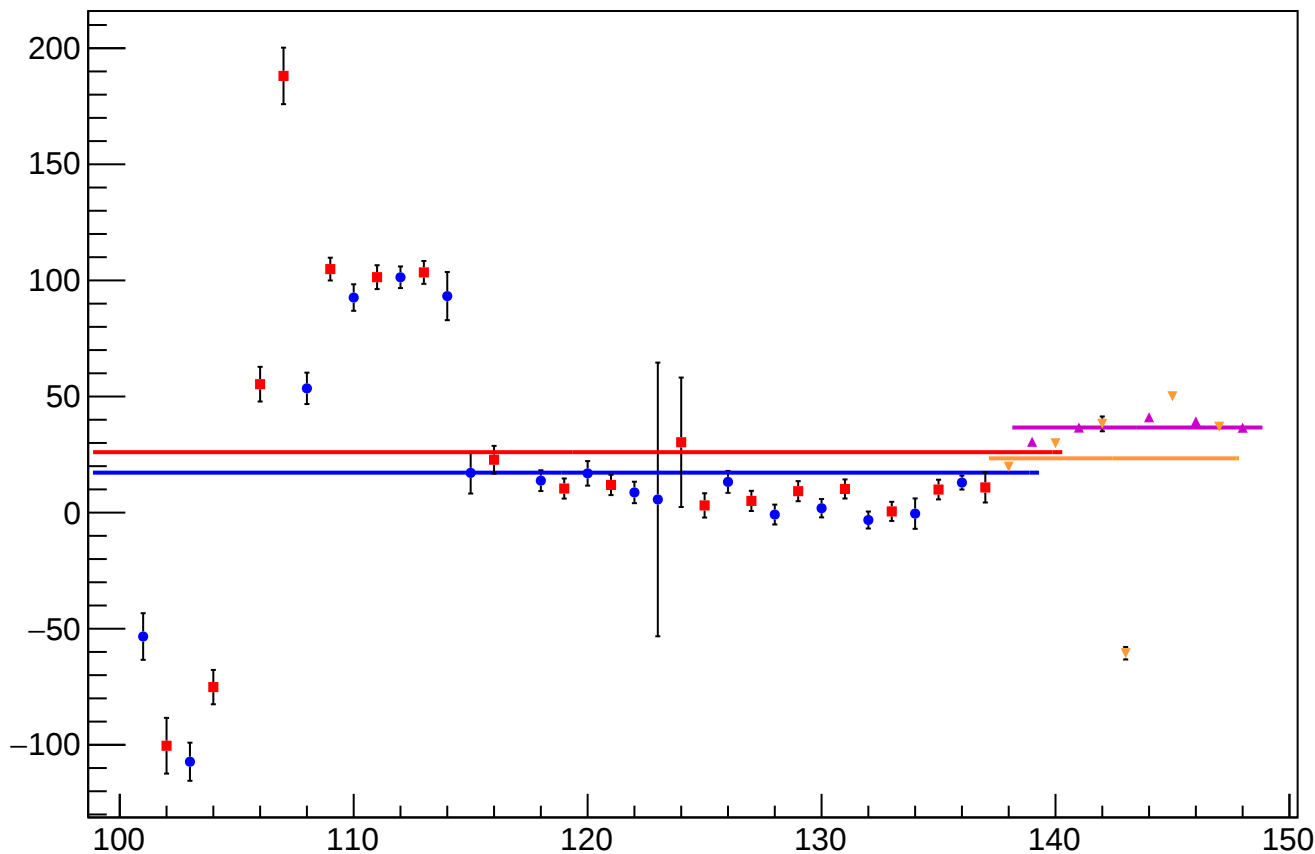
Left In:  $-0.308 \pm 0.593$   $\chi^2/\text{NDF}$ : 5.9/4

+ sign  $-1.420 \pm 0.447$   $\chi^2/\text{NDF}$ : 140.9/22

All:  $-0.855 \pm 0.314$   $\chi^2/\text{NDF}$ : 234.1/45

- sign  $-0.307 \pm 0.440$   $\chi^2/\text{NDF}$ : 90.0/22

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $17.218 \pm 1.241$   $\chi^2/\text{NDF}: 940.1/16$

Left Out:  $23.381 \pm 0.901$   $\chi^2/\text{NDF}: 1205.8/5$

Right Out:  $26.032 \pm 1.244$   $\chi^2/\text{NDF}: 1366.0/17$

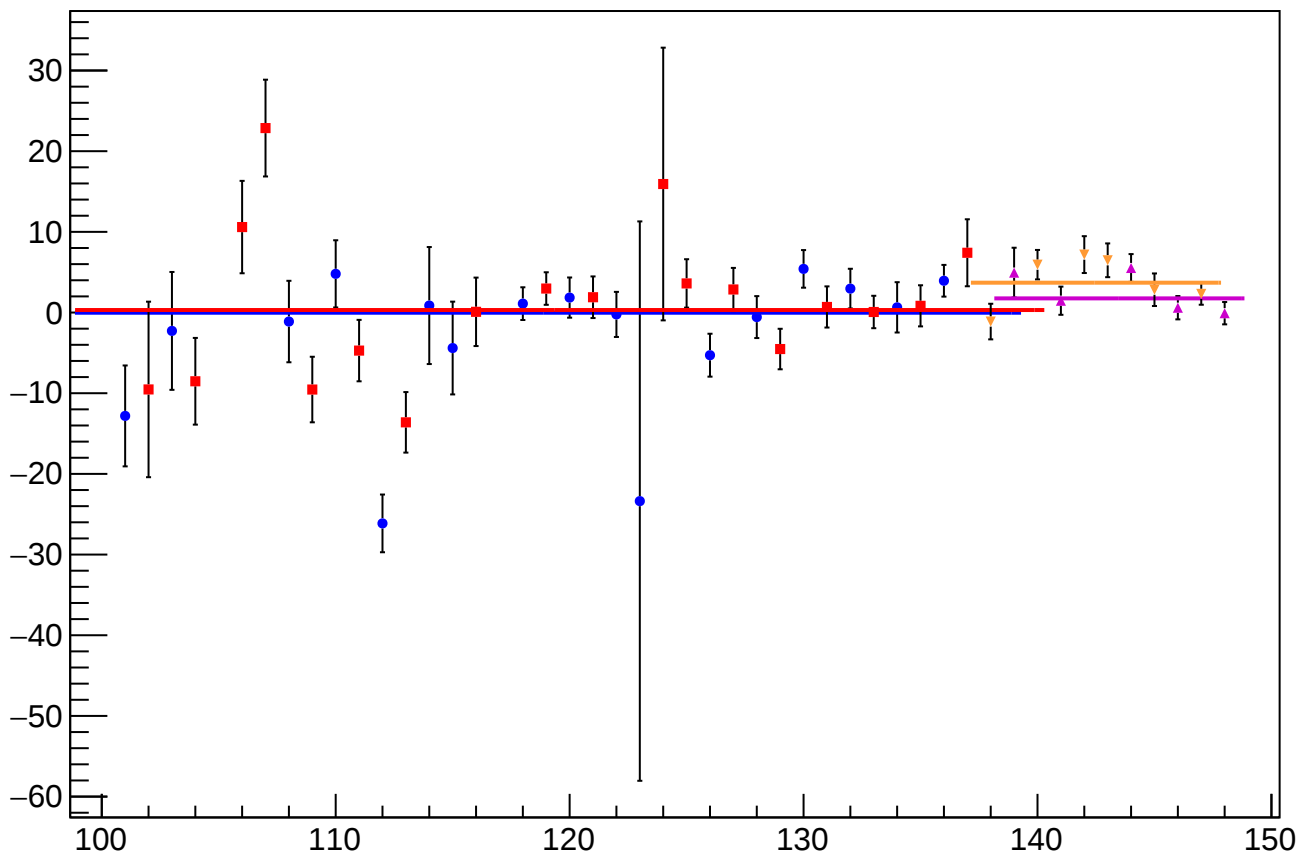
Left In:  $36.651 \pm 0.887$   $\chi^2/\text{NDF}: 16.5/4$

+ sign  $21.254 \pm 0.729$   $\chi^2/\text{NDF}: 2162.1/22$

All:  $27.215 \pm 0.513$   $\chi^2/\text{NDF}: 3725.4/45$

- sign  $33.070 \pm 0.722$   $\chi^2/\text{NDF}: 1430.8/22$

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.022 \pm 0.745$   $\chi^2/\text{NDF}$ : 75.8/16

Left Out:  $3.700 \pm 0.762$   $\chi^2/\text{NDF}$ : 11.6/5

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

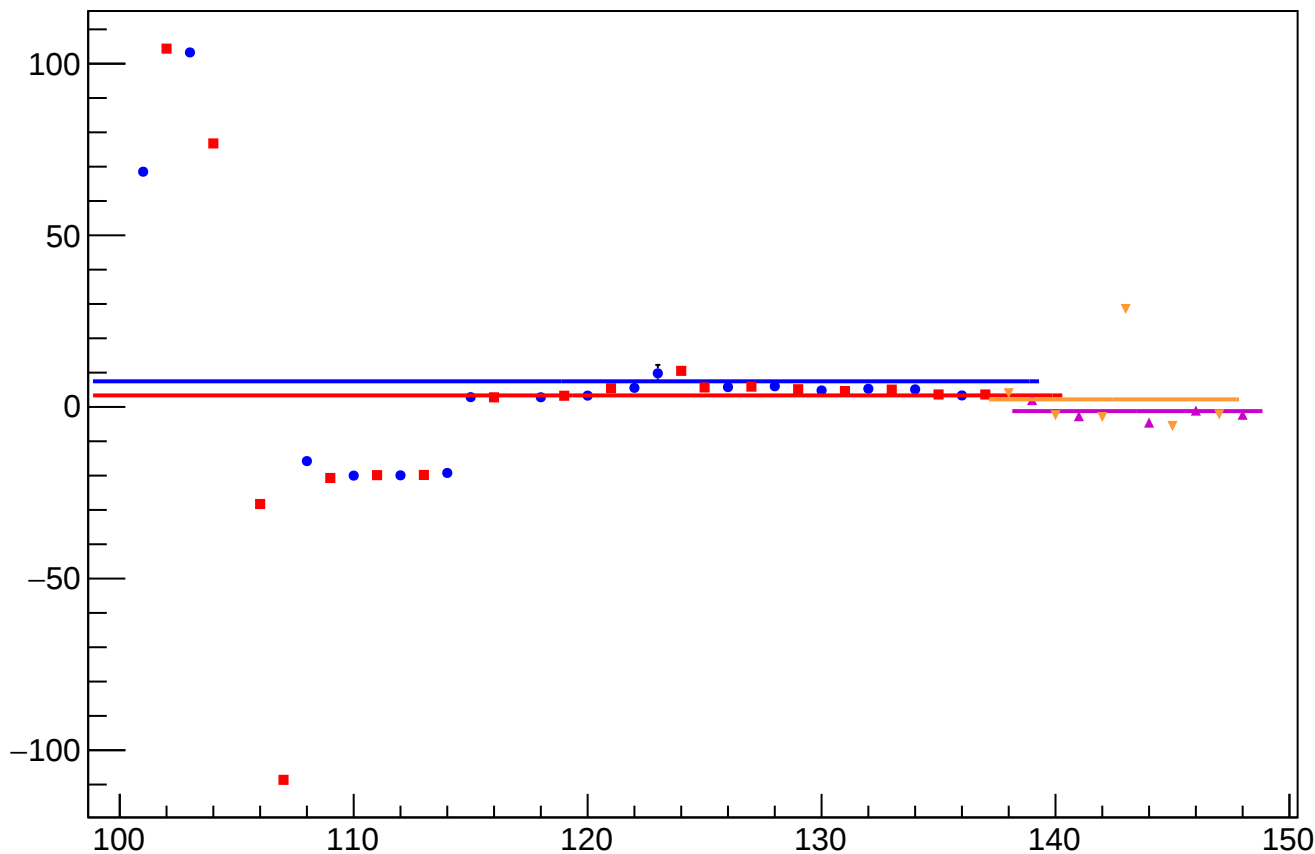
Left In:  $1.754 \pm 0.751$   $\chi^2/\text{NDF}$ : 8.3/4

+ sign  $1.797 \pm 0.533$   $\chi^2/\text{NDF}$ : 99.6/22

All:  $1.413 \pm 0.376$   $\chi^2/\text{NDF}$ : 164.9/45

- sign  $1.031 \pm 0.531$   $\chi^2/\text{NDF}$ : 64.2/22

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $7.467 \pm 0.044$   $\chi^2/\text{NDF}$ : 355890.1/16

Left Out:  $2.197 \pm 0.037$   $\chi^2/\text{NDF}$ : 74815.7/5

Right Out:  $3.362 \pm 0.046$   $\chi^2/\text{NDF}$ : 504811.4/17

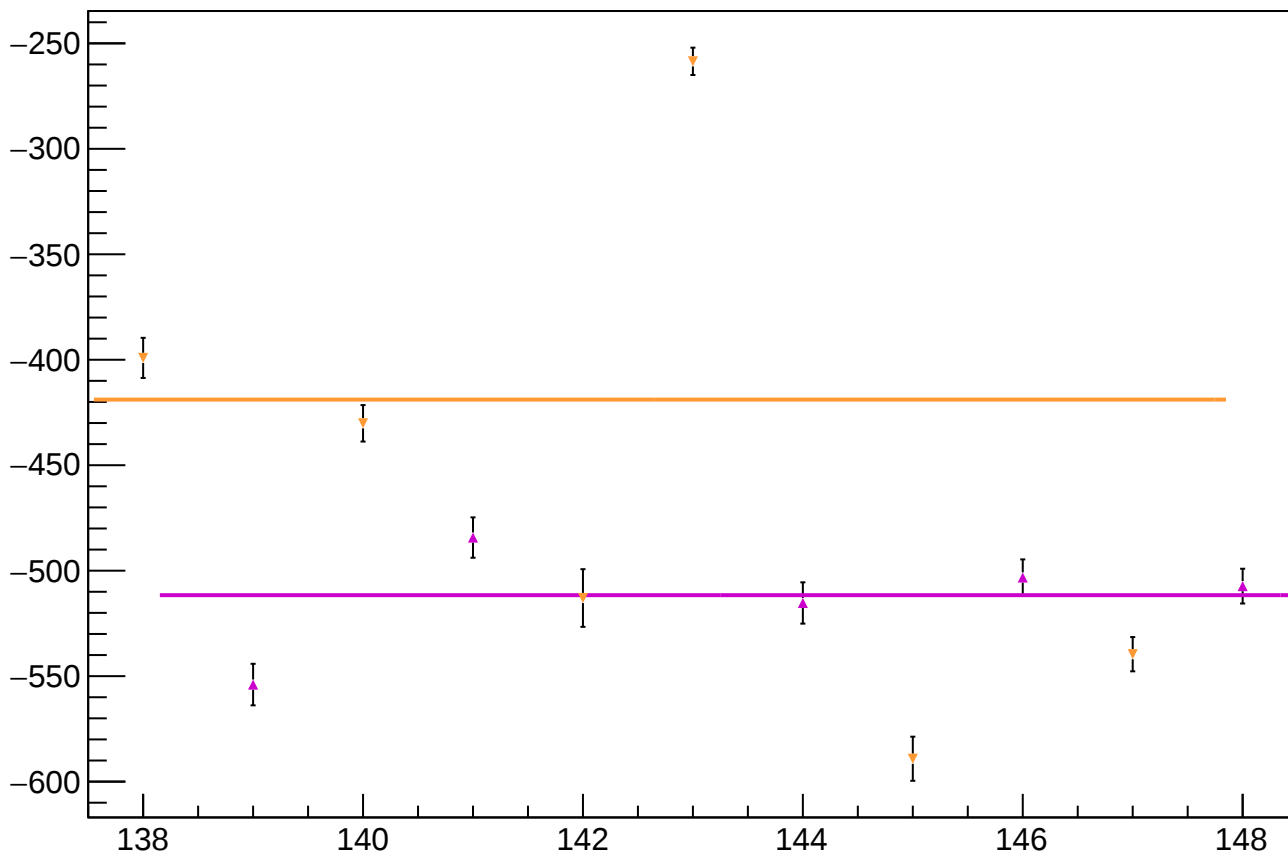
Left In:  $-1.212 \pm 0.036$   $\chi^2/\text{NDF}$ : 3970.7/4

+ sign  $4.384 \pm 0.029$   $\chi^2/\text{NDF}$ : 438922.3/22

All:  $2.468 \pm 0.020$   $\chi^2/\text{NDF}$ : 962736.4/45

- sign  $0.573 \pm 0.028$   $\chi^2/\text{NDF}$ : 514917.5/22

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -418.894+/-3.582  $\chi^2/\text{NDF}$ : 1152.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

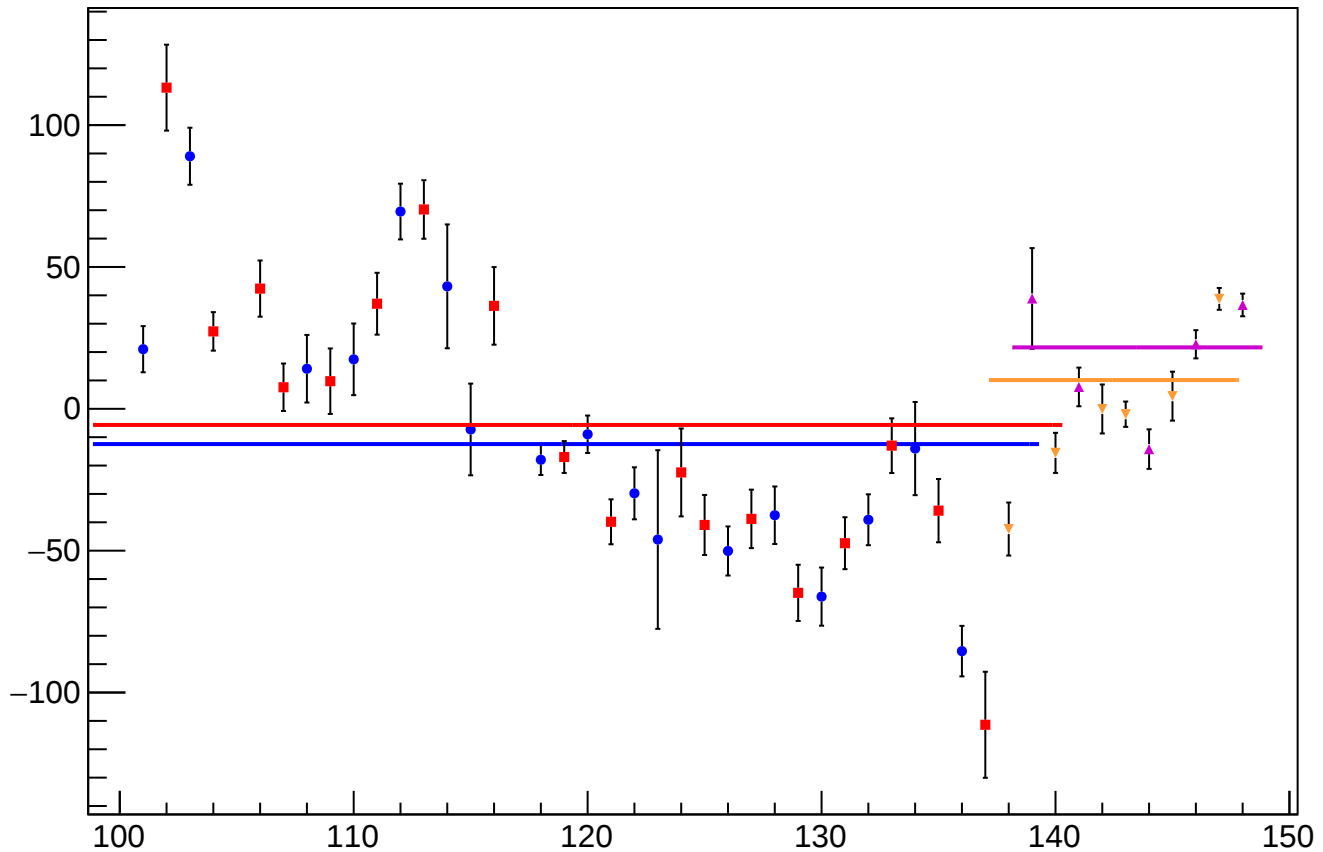
Left In: -511.610+/-4.083  $\chi^2/\text{NDF}$ : 28.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -459.218+/-2.693  $\chi^2/\text{NDF}$ : 1471.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-12.431 \pm 2.315$   $\chi^2/\text{NDF}$ : 340.2/16

Left Out:  $10.136 \pm 2.382$   $\chi^2/\text{NDF}$ : 109.2/5

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

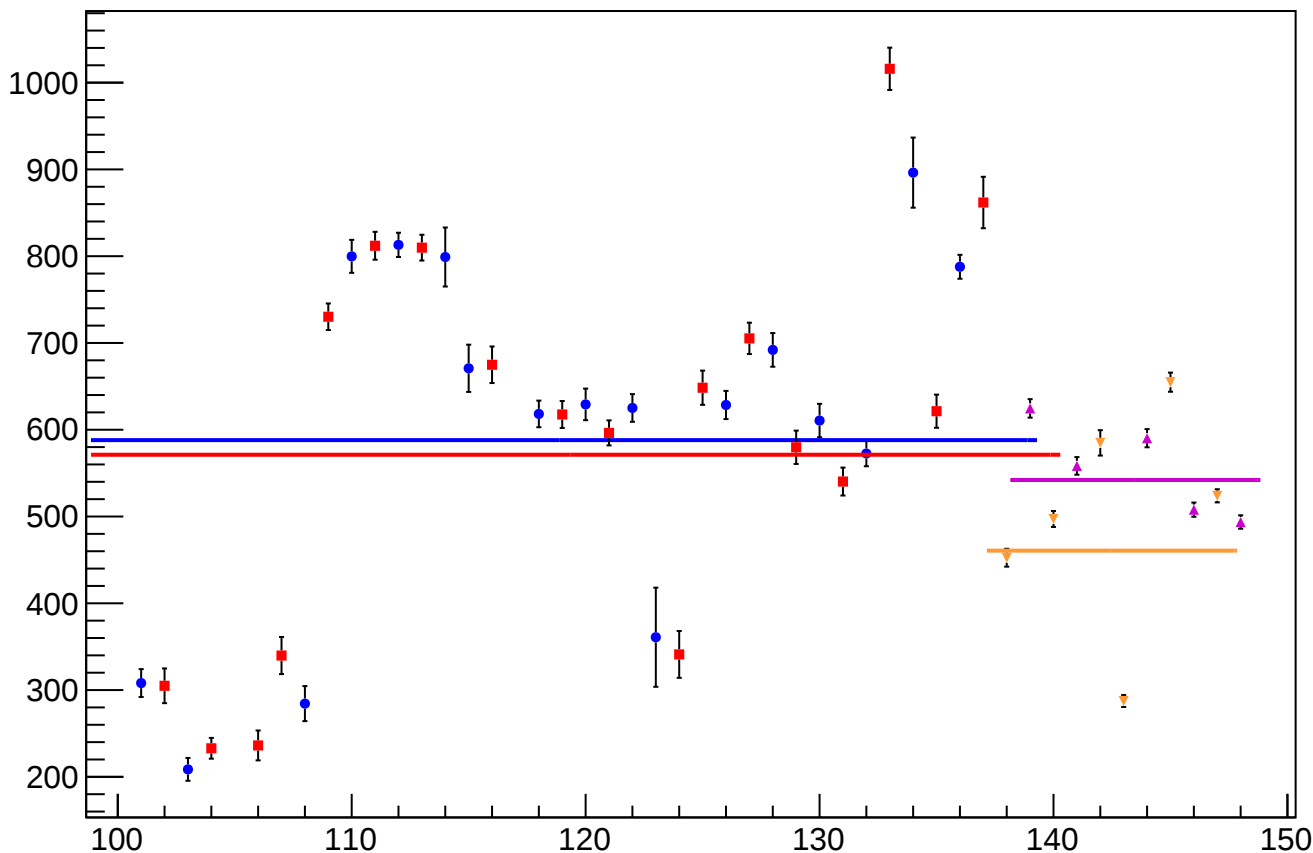
Left In:  $21.657 \pm 2.595$   $\chi^2/\text{NDF}$ : 45.6/4

+ sign  $-1.469 \pm 1.660$   $\chi^2/\text{NDF}$ : 495.6/22

All:  $2.224 \pm 1.190$   $\chi^2/\text{NDF}$ : 948.2/45

- sign  $6.123 \pm 1.706$   $\chi^2/\text{NDF}$ : 442.4/22

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 588.034 $\pm$ 4.329  $\chi^2$ /NDF: 2127.7/16

Left Out: 460.680 $\pm$ 3.714  $\chi^2$ /NDF:1097.2/5

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

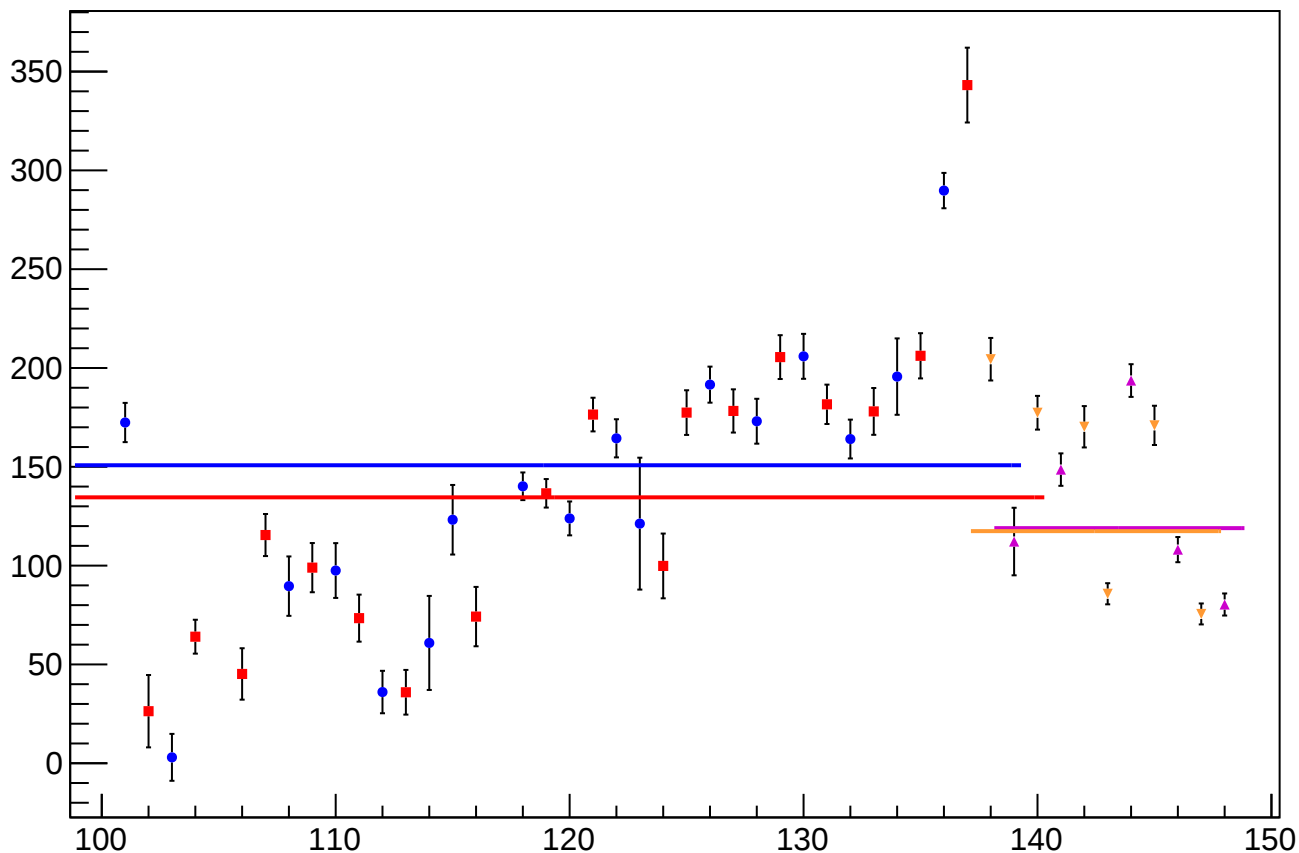
Left In: 542.086 $\pm$ 4.108  $\chi^2$ /NDF:140.3/4

+ sign 514.684 $\pm$ 2.819  $\chi^2$ /NDF: 3723.4/22

All: 534.853 $\pm$ 2.028  $\chi^2$ /NDF: 6675.0/45

- sign 556.492 $\pm$ 2.920  $\chi^2$ /NDF: 2845.5/22

# 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: 117.452 $\pm$ 2.986  $\chi^2/\text{NDF}$ :266.6/5

Right Out: 134.549 $\pm$ 2.619  $\chi^2/\text{NDF}$ : 576.2/17

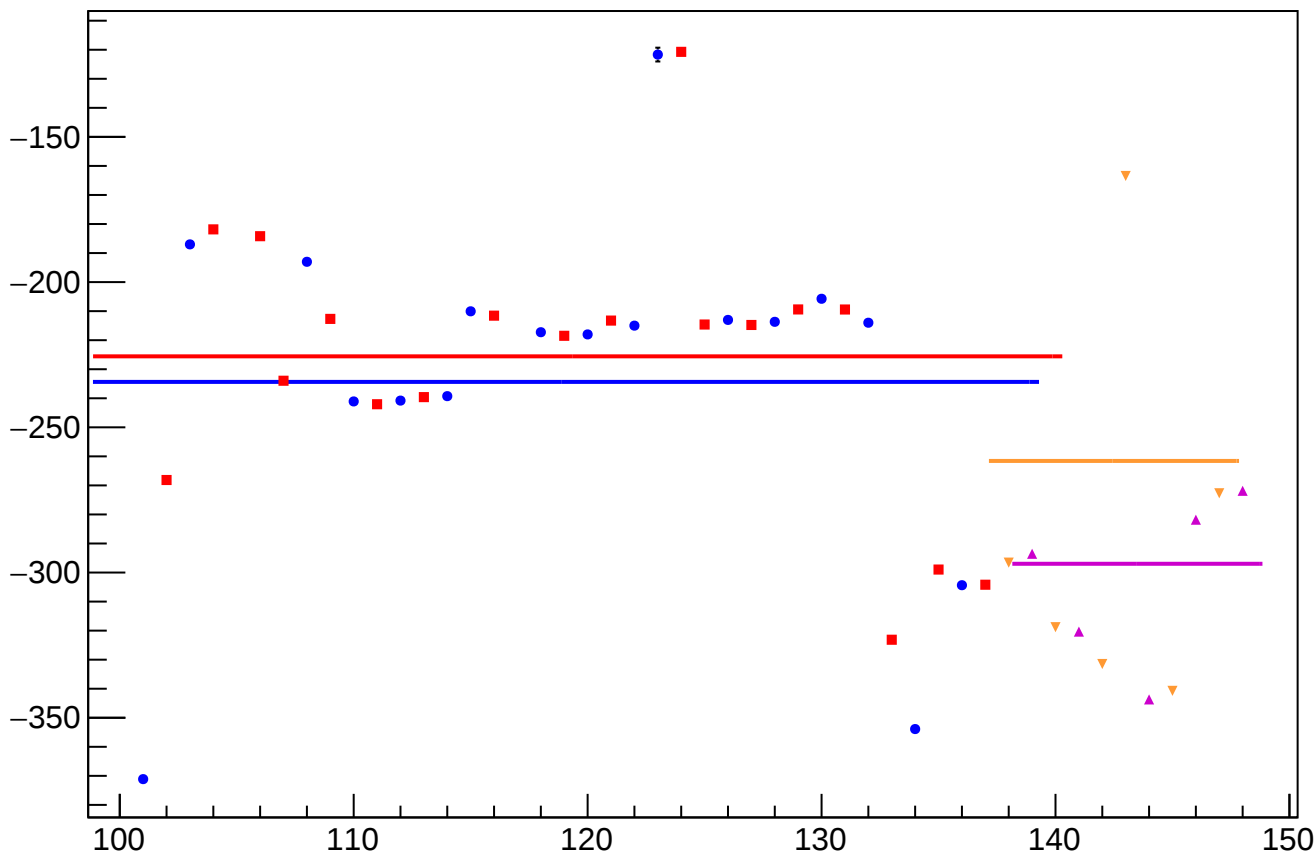
Left In: 118.967 $\pm$ 3.341  $\chi^2/\text{NDF}$ :145.4/4

+ sign 135.919 $\pm$ 1.994  $\chi^2/\text{NDF}$ : 968.7/22

All: 132.389 $\pm$ 1.433  $\chi^2/\text{NDF}$ : 1710.4/45

- sign 128.617 $\pm$ 2.061  $\chi^2/\text{NDF}$ : 735.1/22

# 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:  $-261.573 \pm 0.156$   $\chi^2/\text{NDF}: 200162.6/5$

Right Out:  $-225.561 \pm 0.142$   $\chi^2/\text{NDF}: 92955.0/17$

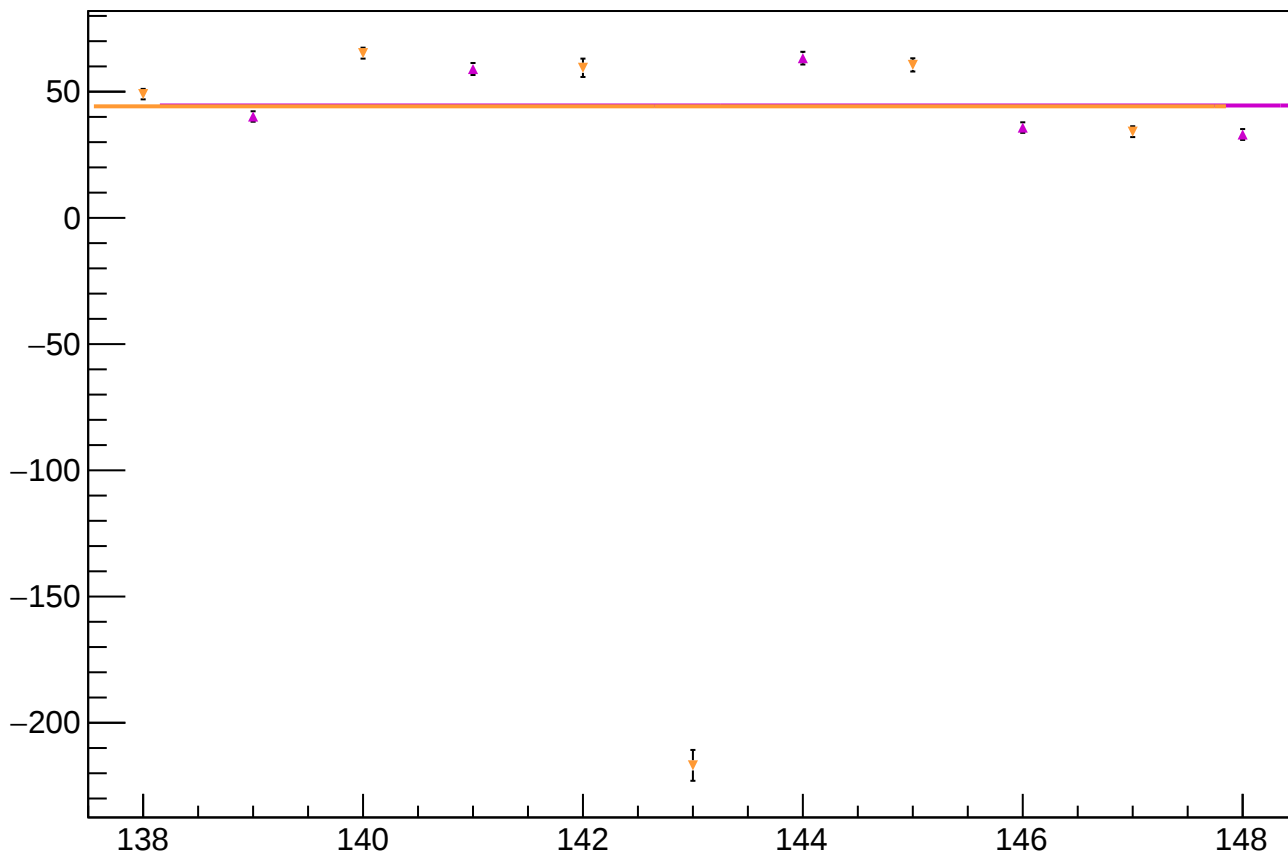
Left In:  $-296.983 \pm 0.172$   $\chi^2/\text{NDF}: 21056.6/4$

+ sign  $-247.287 \pm 0.108$   $\chi^2/\text{NDF}: 361278.0/22$

All:  $-250.838 \pm 0.077$   $\chi^2/\text{NDF}: 580164.3/45$

- sign  $-254.513 \pm 0.109$   $\chi^2/\text{NDF}: 216668.8/22$

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 44.188+/-1.048  $\chi^2/\text{NDF}$ :2003.2/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

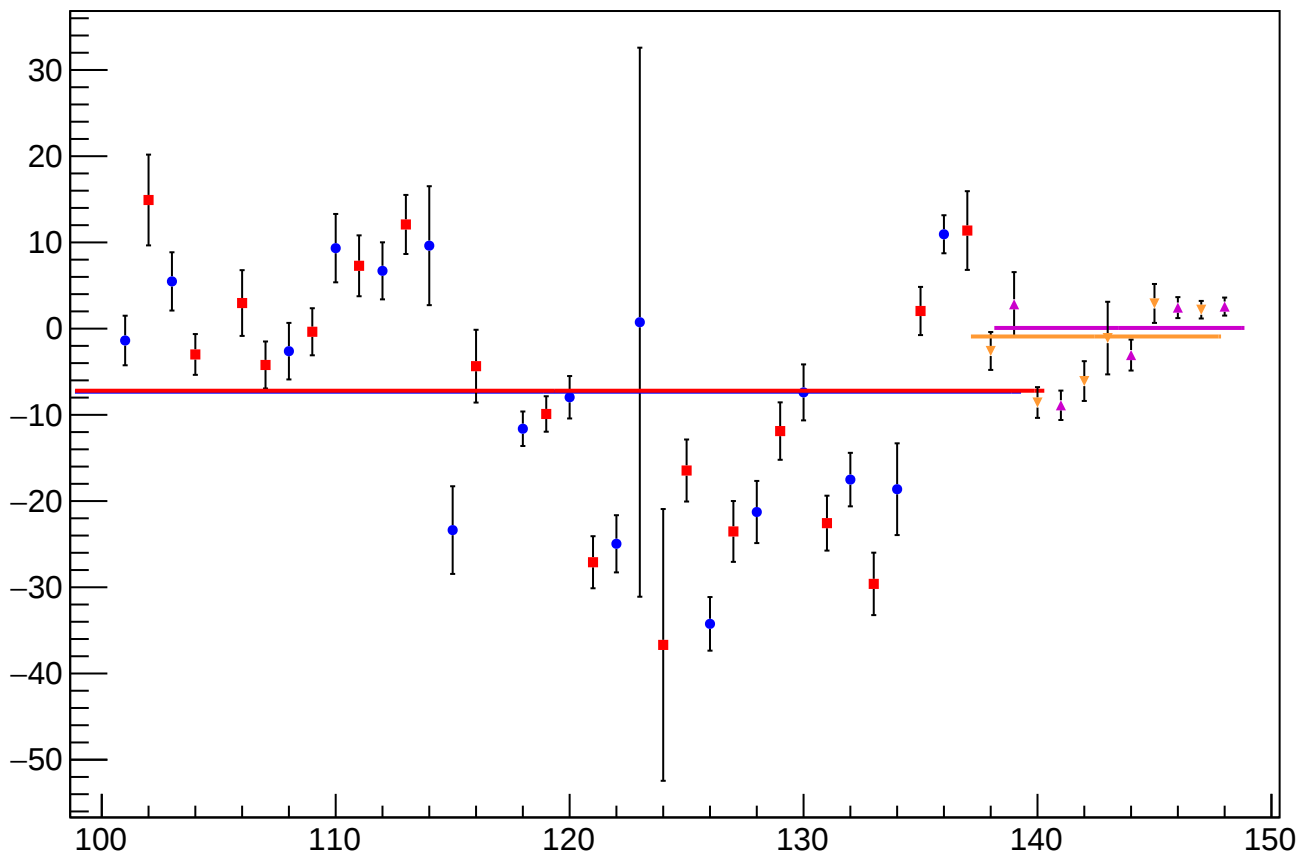
Left In: 44.523+/-0.993  $\chi^2/\text{NDF}$ :143.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 44.365+/-0.720  $\chi^2/\text{NDF}$ : 2146.3/10

- 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:  $-0.912 \pm 0.721$   $\chi^2/\text{NDF}$ : 36.2/5

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

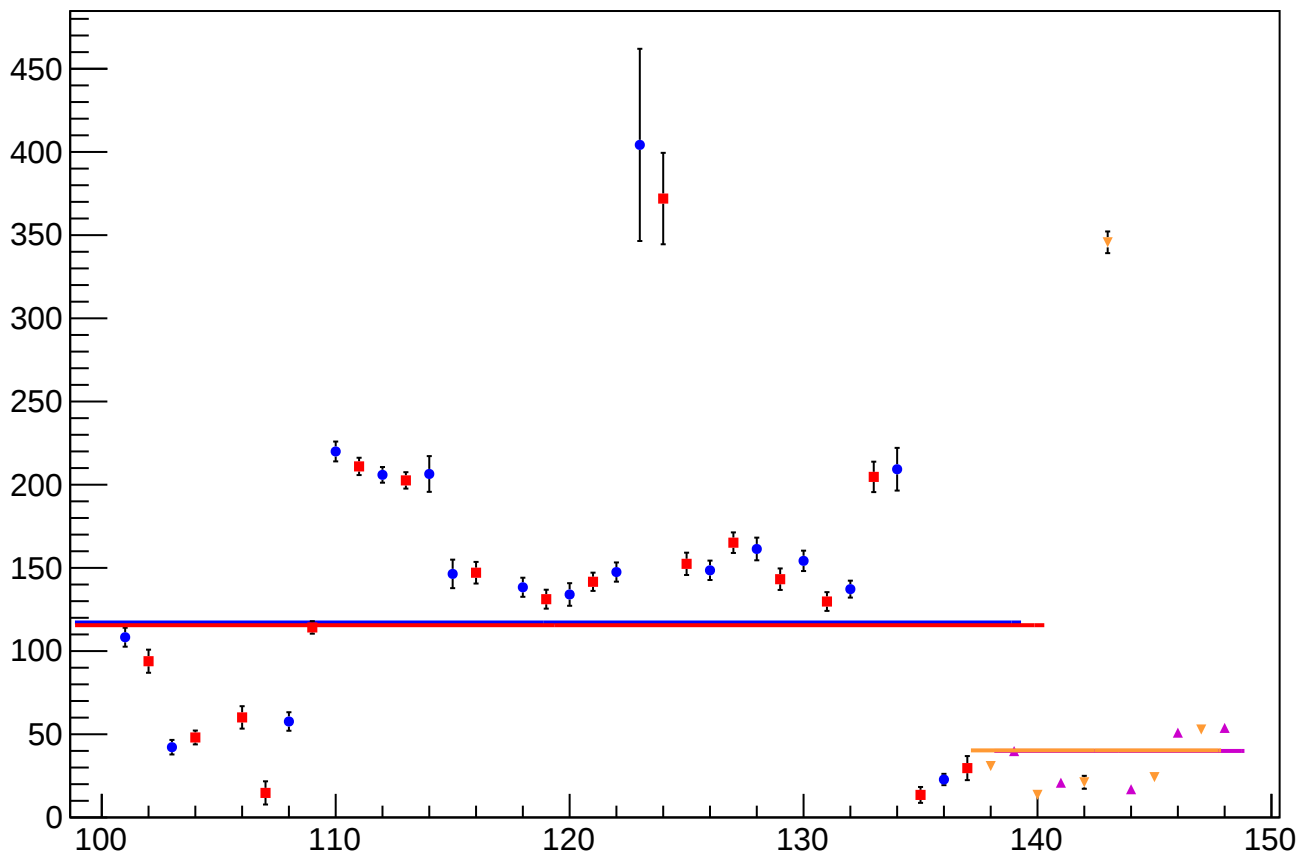
Left In:  $0.080 \pm 0.657$   $\chi^2/\text{NDF}$ : 40.7/4

+ sign  $-3.861 \pm 0.530$   $\chi^2/\text{NDF}$ : 351.6/22

All:  $-3.417 \pm 0.363$   $\chi^2/\text{NDF}$ : 698.1/45

- sign  $-3.025 \pm 0.497$   $\chi^2/\text{NDF}$ : 345.2/22

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.177 $\pm$ 1.411  $\chi^2$ /NDF: 2159.6/16

Left Out: 40.305 $\pm$ 1.079  $\chi^2$ /NDF:2445.0/5

Right Out: 115.556 $\pm$ 1.363  $\chi^2$ /NDF: 2149.2/17

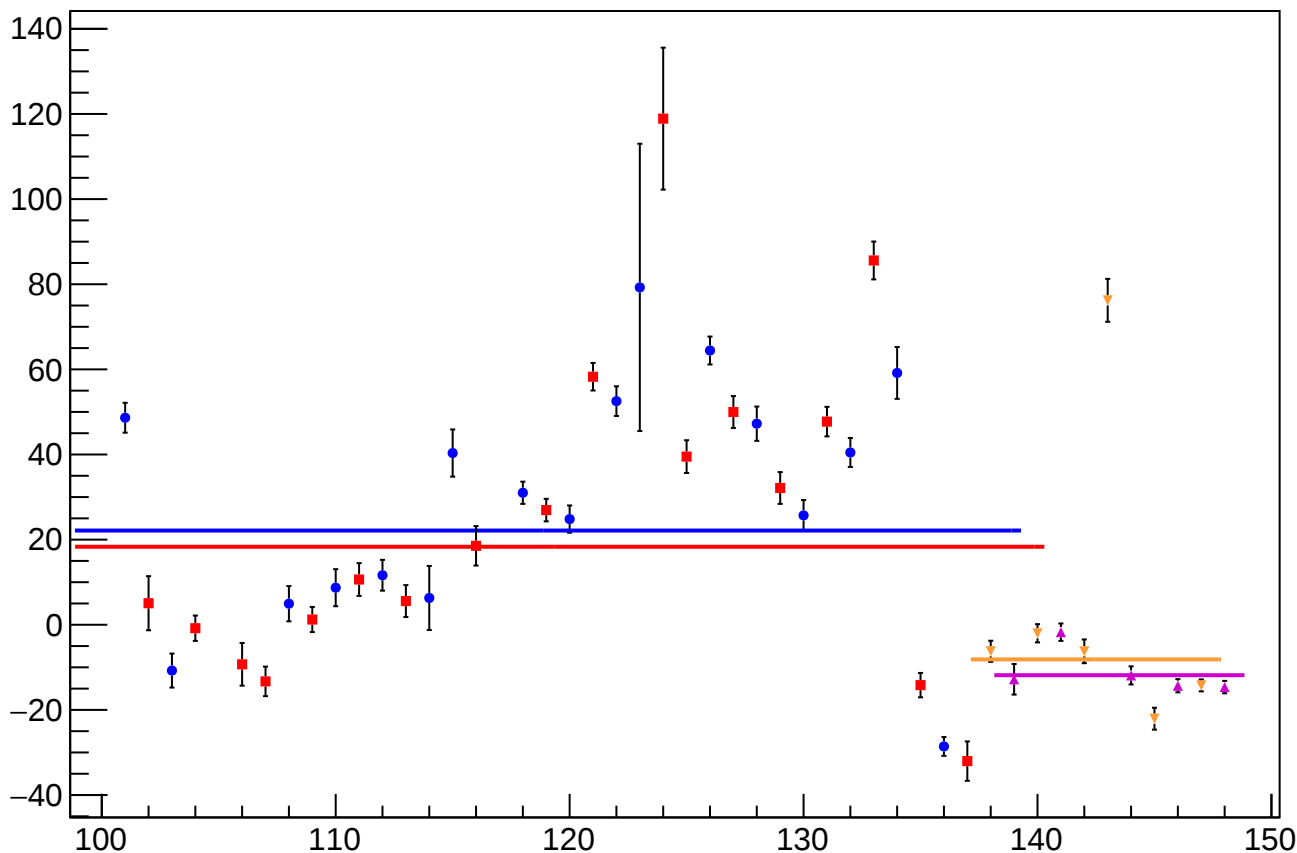
Left In: 39.975 $\pm$ 1.004  $\chi^2$ /NDF:207.7/4

+ sign 68.665 $\pm$ 0.857  $\chi^2$ /NDF: 6476.7/22

All: 67.551 $\pm$ 0.588  $\chi^2$ /NDF: 10829.6/45

- sign 66.561 $\pm$ 0.808  $\chi^2$ /NDF: 4349.7/22

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.136 $\pm$ 0.891  $\chi^2$ /NDF: 1064.1/16

Left Out: -8.134 $\pm$ 0.910  $\chi^2$ /NDF:336.7/5

Right Out: 18.331 $\pm$ 0.872  $\chi^2$ /NDF: 1070.4/17

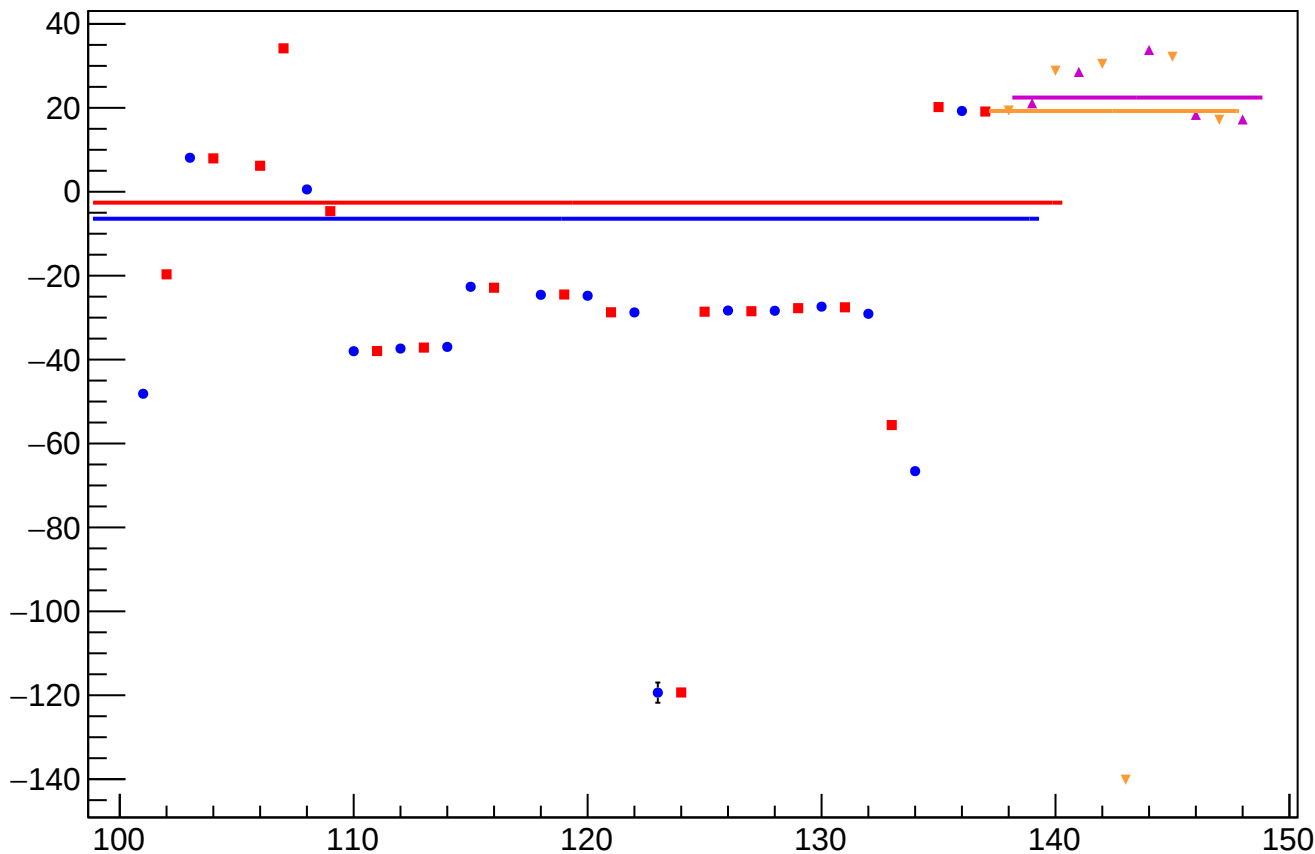
Left In: -11.846 $\pm$ 0.840  $\chi^2$ /NDF:30.7/4

+ sign 7.326 $\pm$ 0.637  $\chi^2$ /NDF: 1965.4/22

All: 4.882 $\pm$ 0.439  $\chi^2$ /NDF: 3715.6/45

- sign 2.677 $\pm$ 0.605  $\chi^2$ /NDF: 1722.3/22

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -6.428+/-0.046  $\chi^2/\text{NDF}$ : 265170.6/16

Left Out: 19.251+/-0.045  $\chi^2/\text{NDF}$ : 398405.5/5

Right Out: -2.597+/-0.046  $\chi^2/\text{NDF}$ : 263579.4/17

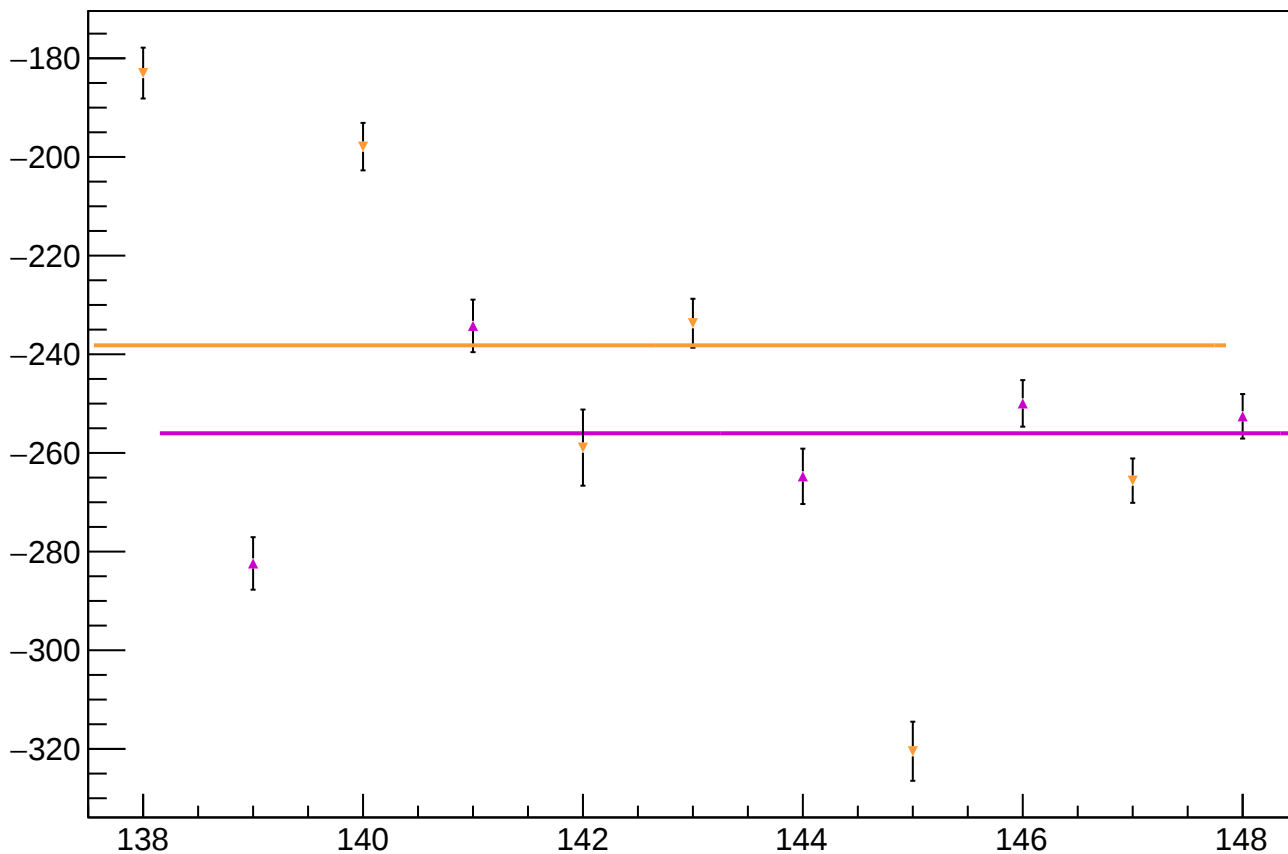
Left In: 22.450+/-0.041  $\chi^2/\text{NDF}$ : 18846.1/4

+ sign 6.638+/-0.032  $\chi^2/\text{NDF}$ : 820679.0/22

All: 9.021+/-0.022  $\chi^2/\text{NDF}$ : 1277922.2/45

- sign 11.166+/-0.031  $\chi^2/\text{NDF}$ : 446953.9/22

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -238.185+/-2.154  $\chi^2/\text{NDF}$ : 418.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

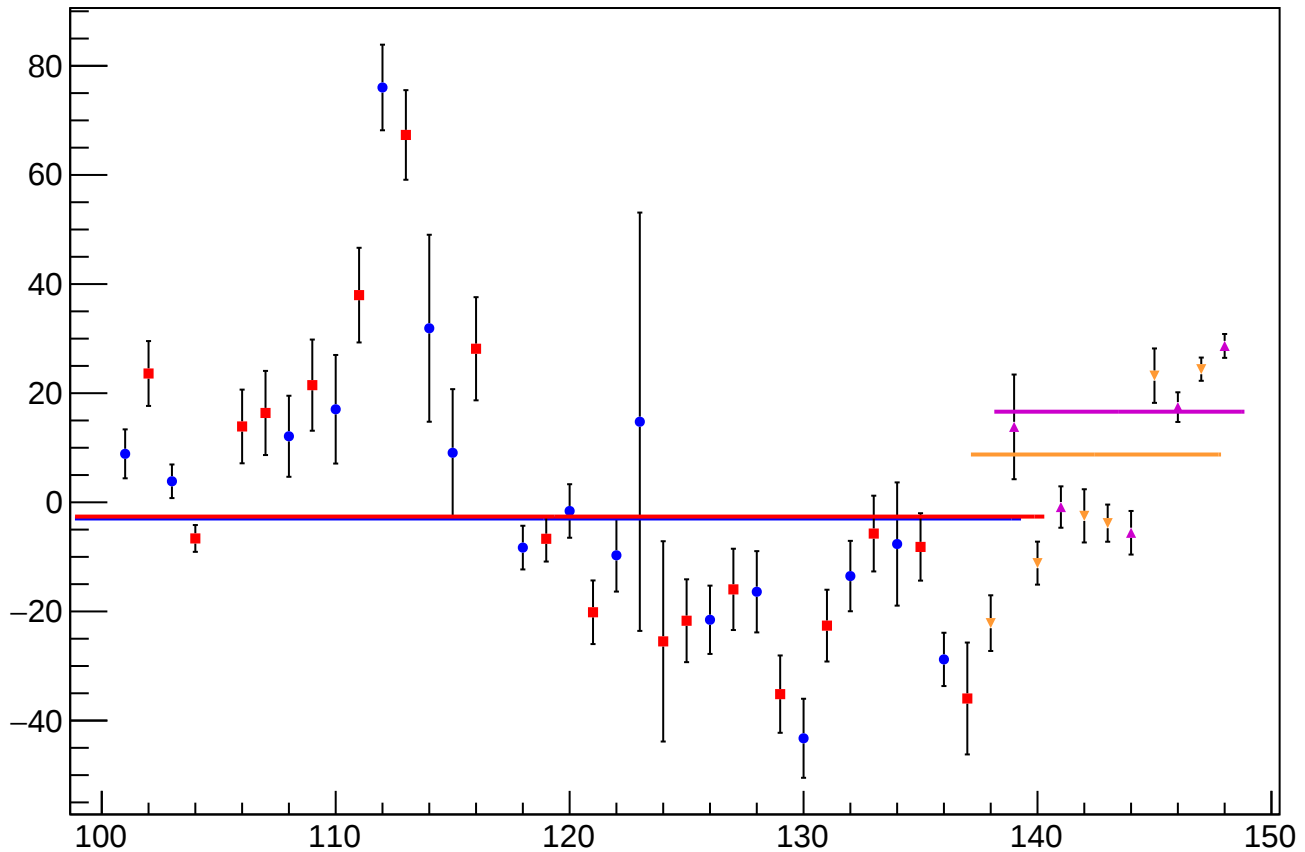
Left In: -256.013+/-2.256  $\chi^2/\text{NDF}$ : 46.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -246.683+/-1.558  $\chi^2/\text{NDF}$ : 497.3/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.964 \pm 1.452$   $\chi^2/\text{NDF}$ : 203.5/16

Left Out:  $8.763 \pm 1.426$   $\chi^2/\text{NDF}$ : 143.5/5

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

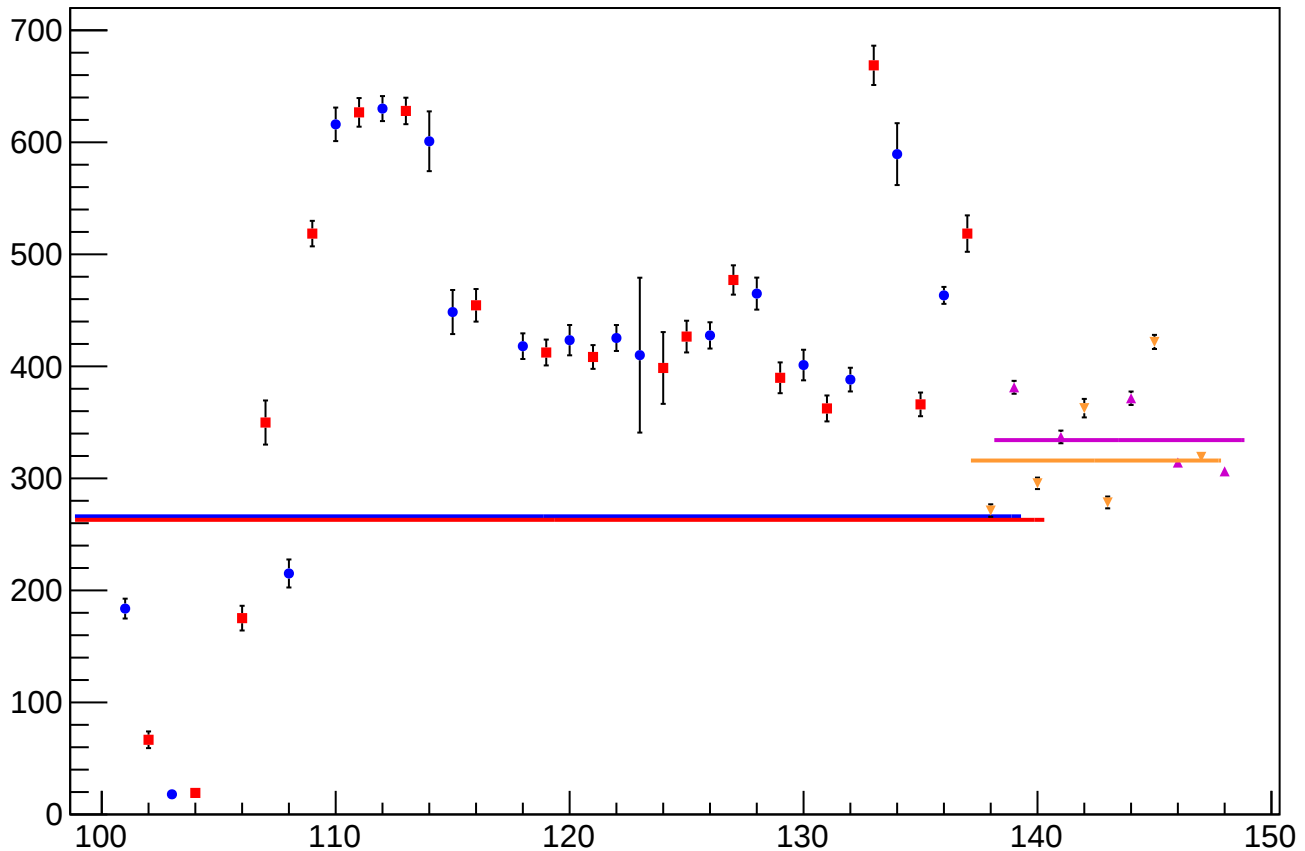
Left In:  $16.610 \pm 1.432$   $\chi^2/\text{NDF}$ : 82.7/4

+ sign  $3.006 \pm 1.018$   $\chi^2/\text{NDF}$ : 380.2/22

All:  $4.920 \pm 0.714$   $\chi^2/\text{NDF}$ : 772.5/45

- sign  $6.771 \pm 1.001$   $\chi^2/\text{NDF}$ : 385.4/22

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 315.937 $\pm$ 2.222  $\chi^2$ /NDF:445.4/5

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

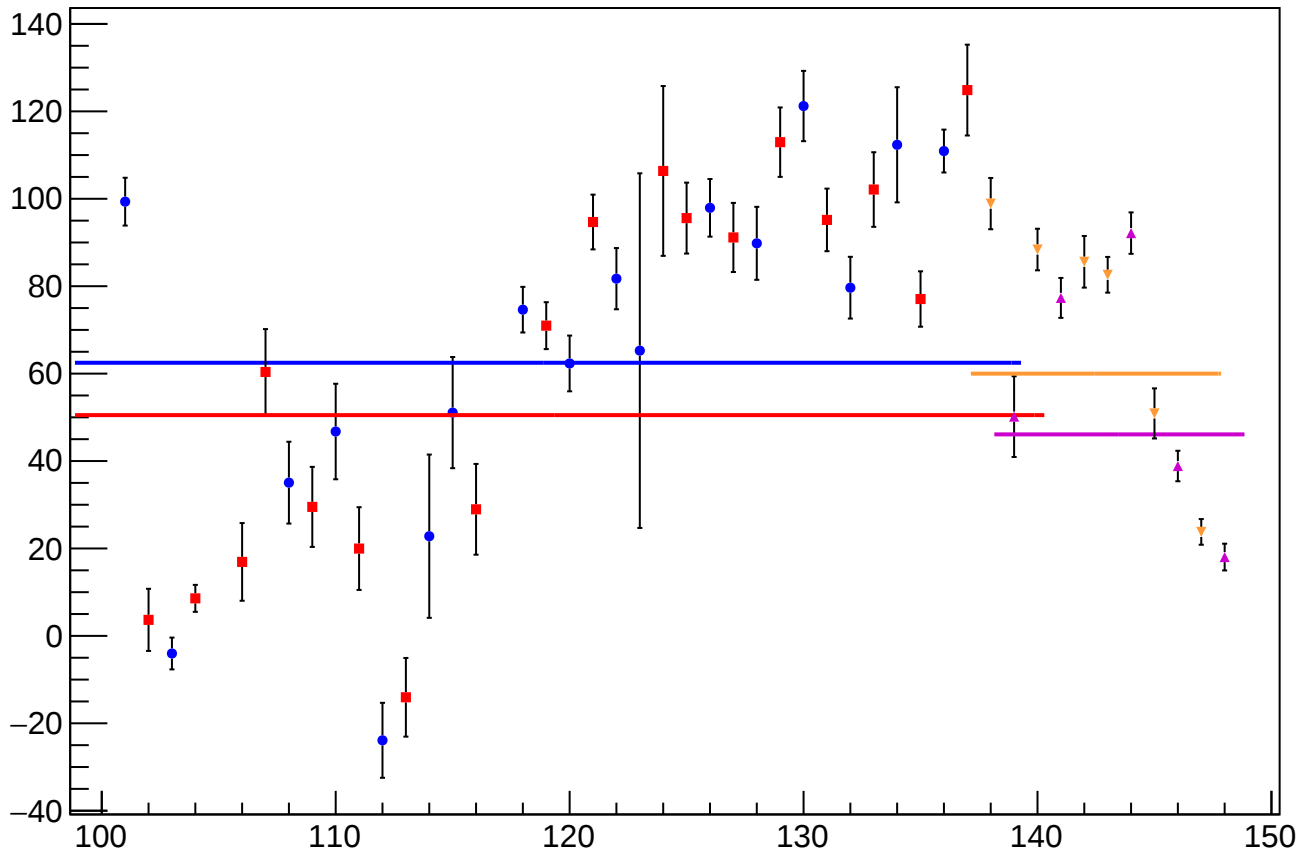
Left In: 334.168 $\pm$ 2.269  $\chi^2$ /NDF:169.2/4

+ sign 293.751 $\pm$ 1.655  $\chi^2$ /NDF: 8313.3/22

All: 297.619 $\pm$ 1.175  $\chi^2$ /NDF: 17116.5/45

- sign 301.555 $\pm$ 1.670  $\chi^2$ /NDF: 8792.2/22

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $62.485 \pm 1.681$   $\chi^2/\text{NDF}: 720.8/16$

Left Out:  $59.997 \pm 1.802$   $\chi^2/\text{NDF}: 283.3/5$

Right Out:  $50.506 \pm 1.644$   $\chi^2/\text{NDF}: 650.6/17$

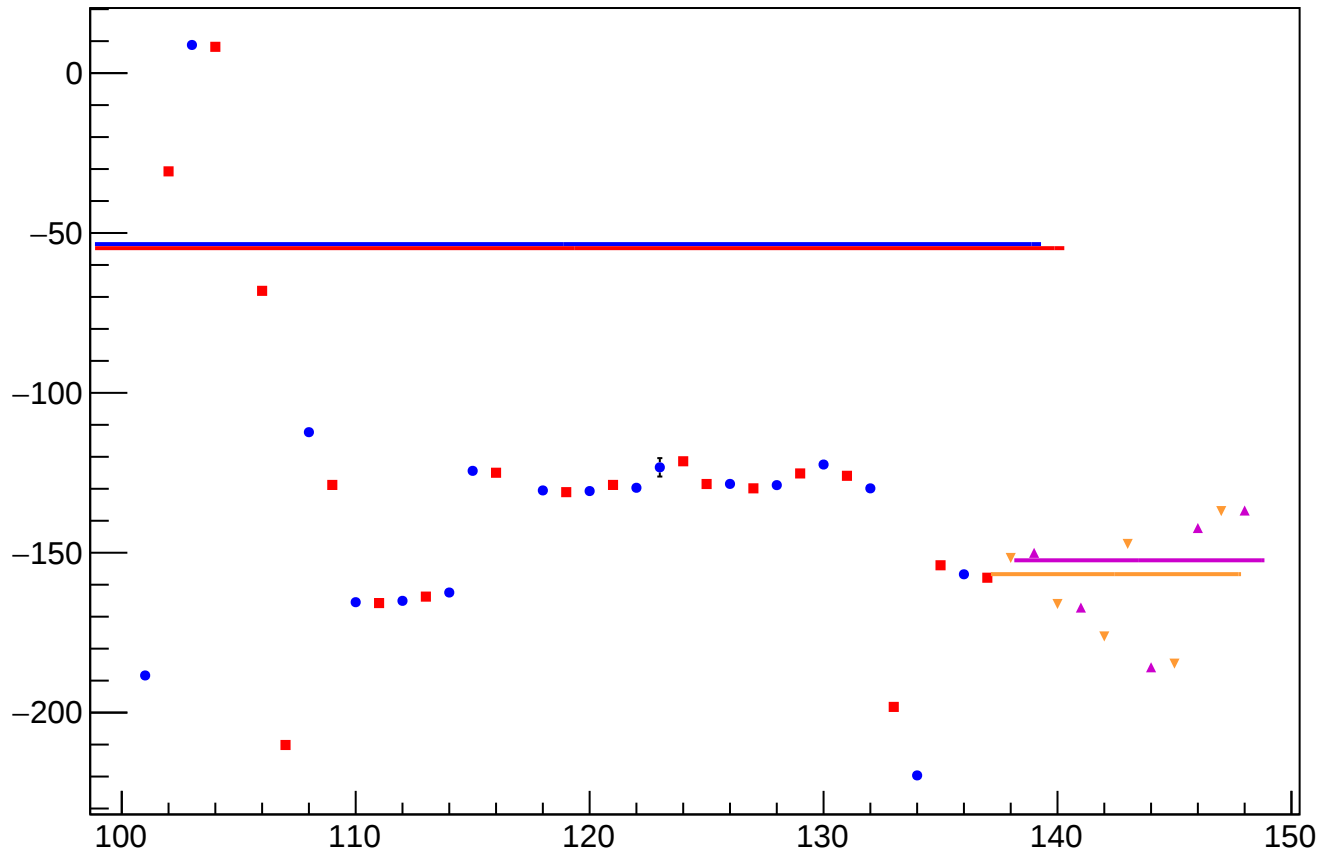
Left In:  $46.099 \pm 1.847$   $\chi^2/\text{NDF}: 229.7/4$

+ sign  $61.327 \pm 1.229$   $\chi^2/\text{NDF}: 1005.1/22$

All:  $54.937 \pm 0.869$   $\chi^2/\text{NDF}: 1942.6/45$

- sign  $48.557 \pm 1.228$   $\chi^2/\text{NDF}: 883.5/22$

# reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -53.481+/-0.070  $\chi^2/\text{NDF}$ : 1228730.5/16

Left Out: -156.699+/-0.094  $\chi^2/\text{NDF}$ : 30299.6/5

Right Out: -54.748+/-0.072  $\chi^2/\text{NDF}$ : 952446.3/17

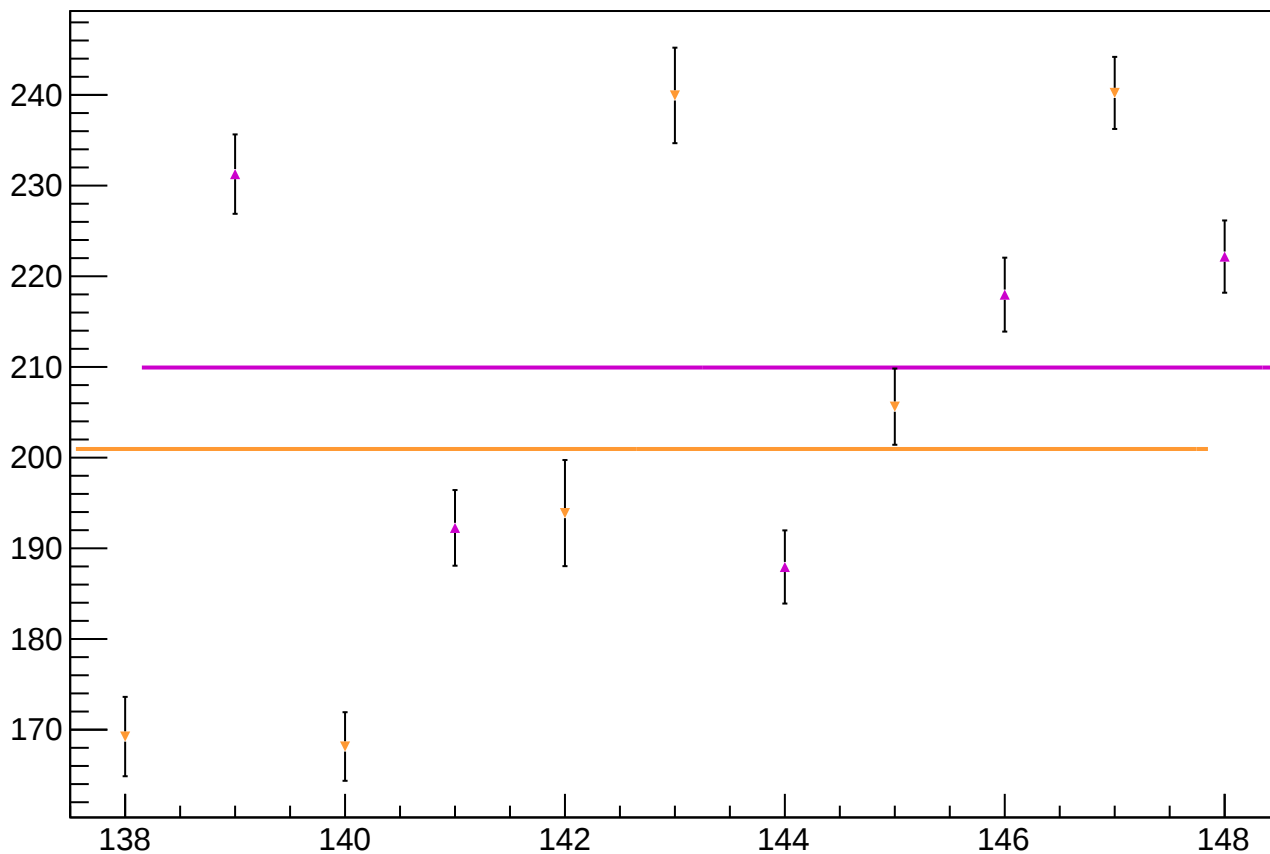
Left In: -152.369+/-0.095  $\chi^2/\text{NDF}$ : 30249.4/4

+ sign -90.500+/-0.056  $\chi^2/\text{NDF}$ : 2031985.8/22

All: -90.536+/-0.040  $\chi^2/\text{NDF}$ : 3686835.5/45

- sign -90.573+/-0.057  $\chi^2/\text{NDF}$ : 1654848.9/22

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 200.955+/-1.804  $\chi^2/\text{NDF}$ : 282.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

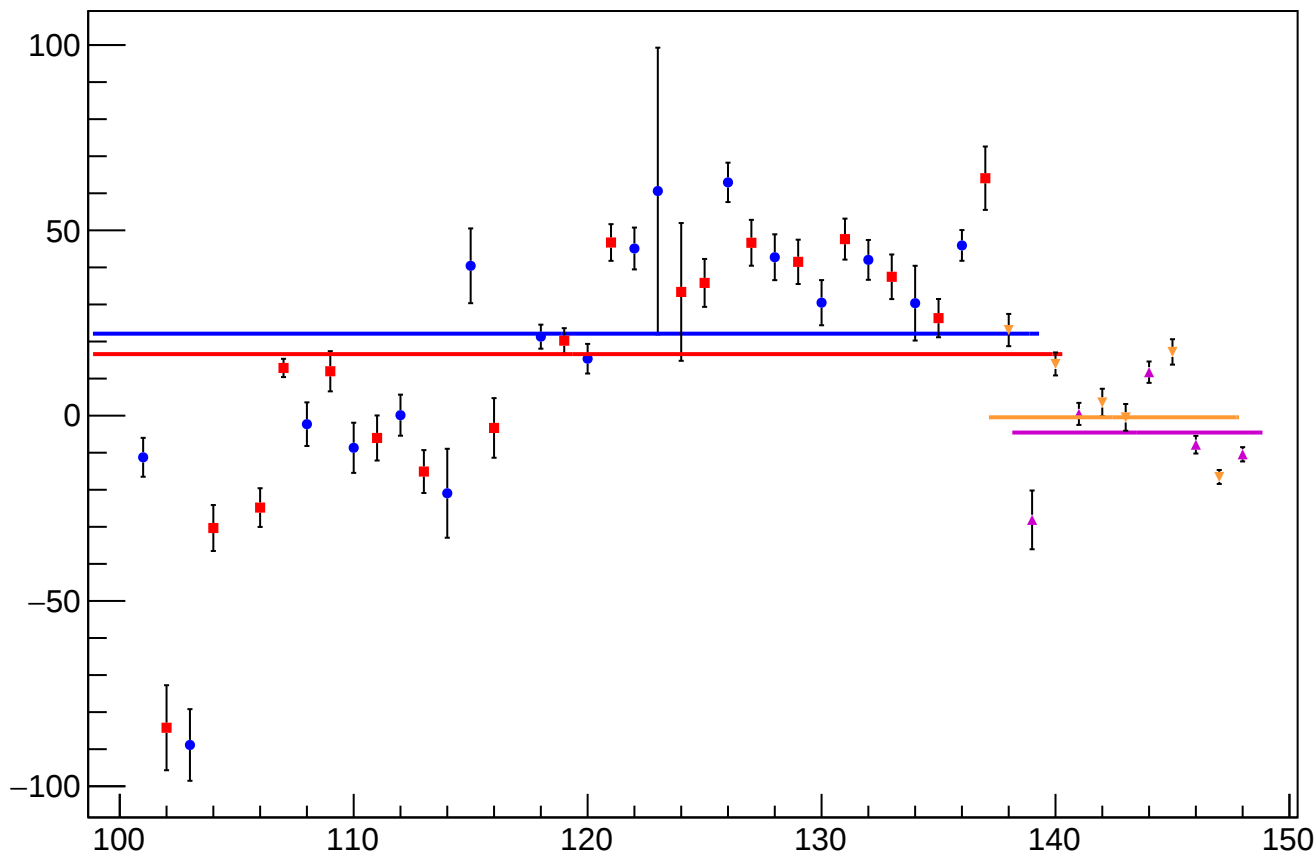
Left In: 209.937+/-1.844  $\chi^2/\text{NDF}$ : 84.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 205.348+/-1.289  $\chi^2/\text{NDF}$ : 379.8/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 22.119 $\pm$ 1.376  $\chi^2$ /NDF: 382.0/16

Left Out: -0.445 $\pm$ 1.219  $\chi^2$ /NDF:151.5/5

Right Out: 16.602 $\pm$ 1.229  $\chi^2$ /NDF: 416.8/17

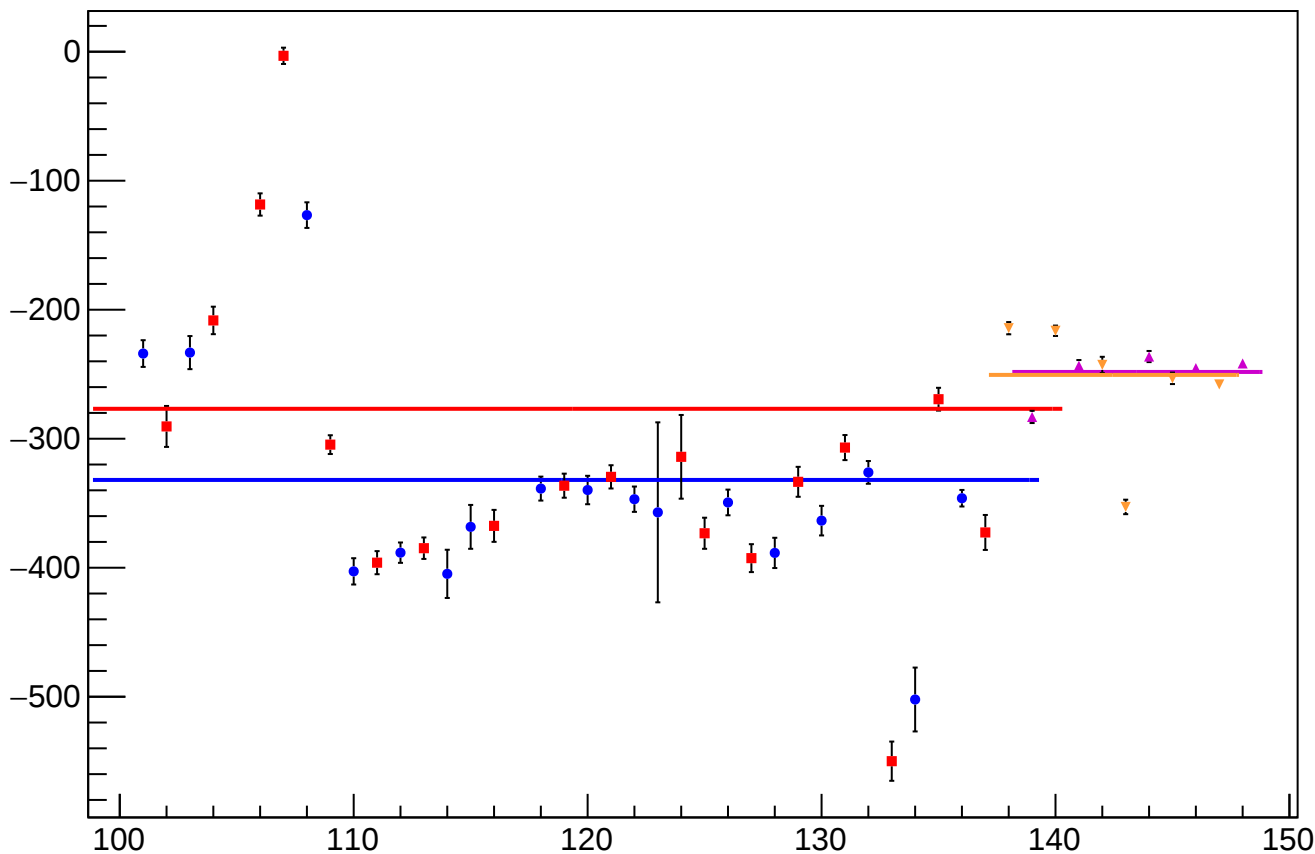
Left In: -4.561 $\pm$ 1.200  $\chi^2$ /NDF:54.8/4

+ sign 9.470 $\pm$ 0.912  $\chi^2$ /NDF: 684.1/22

All: 7.507 $\pm$ 0.625  $\chi^2$ /NDF: 1316.3/45

- sign 5.768 $\pm$ 0.859  $\chi^2$ /NDF: 623.4/22

# 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:  $-250.524 \pm 1.869$   $\chi^2/\text{NDF}$ : 468.4/5

Right Out:  $-276.804 \pm 2.329$   $\chi^2/\text{NDF}$ : 3330.4/17

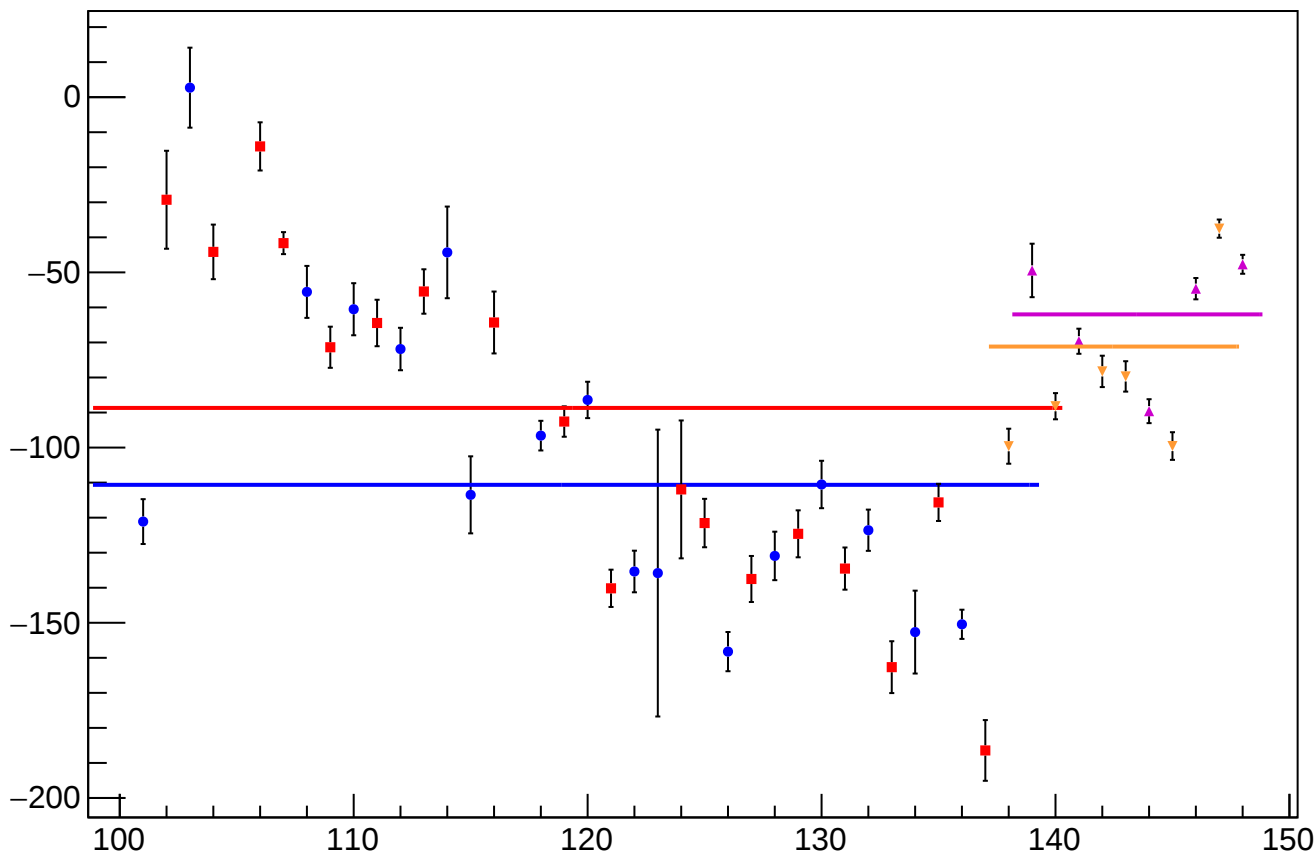
Left In:  $-248.243 \pm 1.868$   $\chi^2/\text{NDF}$ : 66.7/4

+ sign  $-278.728 \pm 1.511$   $\chi^2/\text{NDF}$ : 1911.5/22

All:  $-268.725 \pm 1.049$   $\chi^2/\text{NDF}$ : 5484.7/45

- sign  $-259.420 \pm 1.457$   $\chi^2/\text{NDF}$ : 3488.6/22

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-110.633 \pm 1.581$   $\chi^2/\text{NDF}$ : 508.9/16

Left Out:  $-71.172 \pm 1.530$   $\chi^2/\text{NDF}$ : 279.1/5

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}$ : 964.0/17

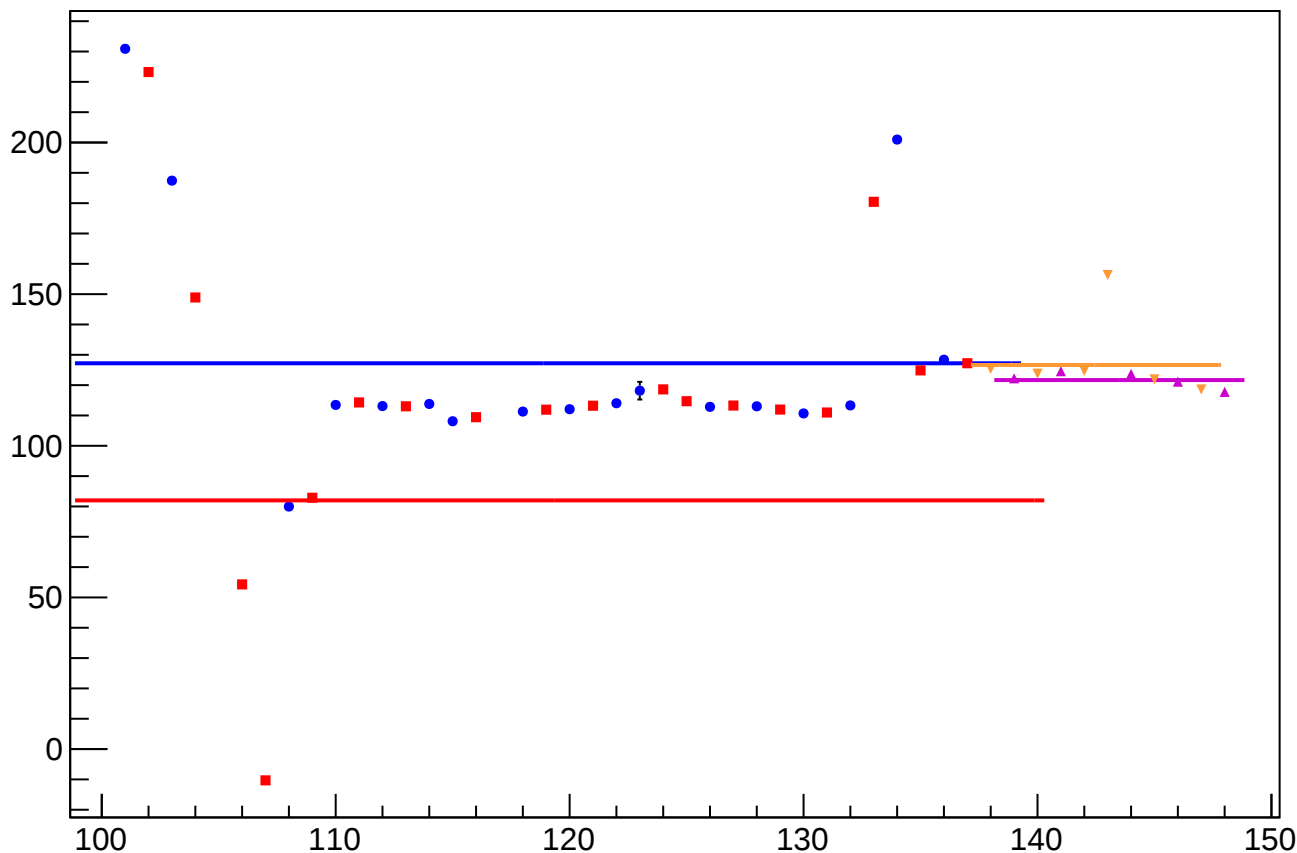
Left In:  $-61.988 \pm 1.532$   $\chi^2/\text{NDF}$ : 106.5/4

+ sign  $-90.259 \pm 1.100$   $\chi^2/\text{NDF}$ : 1109.6/22

All:  $-82.893 \pm 0.758$   $\chi^2/\text{NDF}$ : 2427.4/45

- sign  $-76.214 \pm 1.047$   $\chi^2/\text{NDF}$ : 1232.2/22

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.205 +/- 0.089  $\chi^2/\text{NDF}$ : 188026.3/16

Left Out: 126.649 +/- 0.079  $\chi^2/\text{NDF}$ : 20410.1/5

Right Out: 81.994 +/- 0.075  $\chi^2/\text{NDF}$ : 749824.5/17

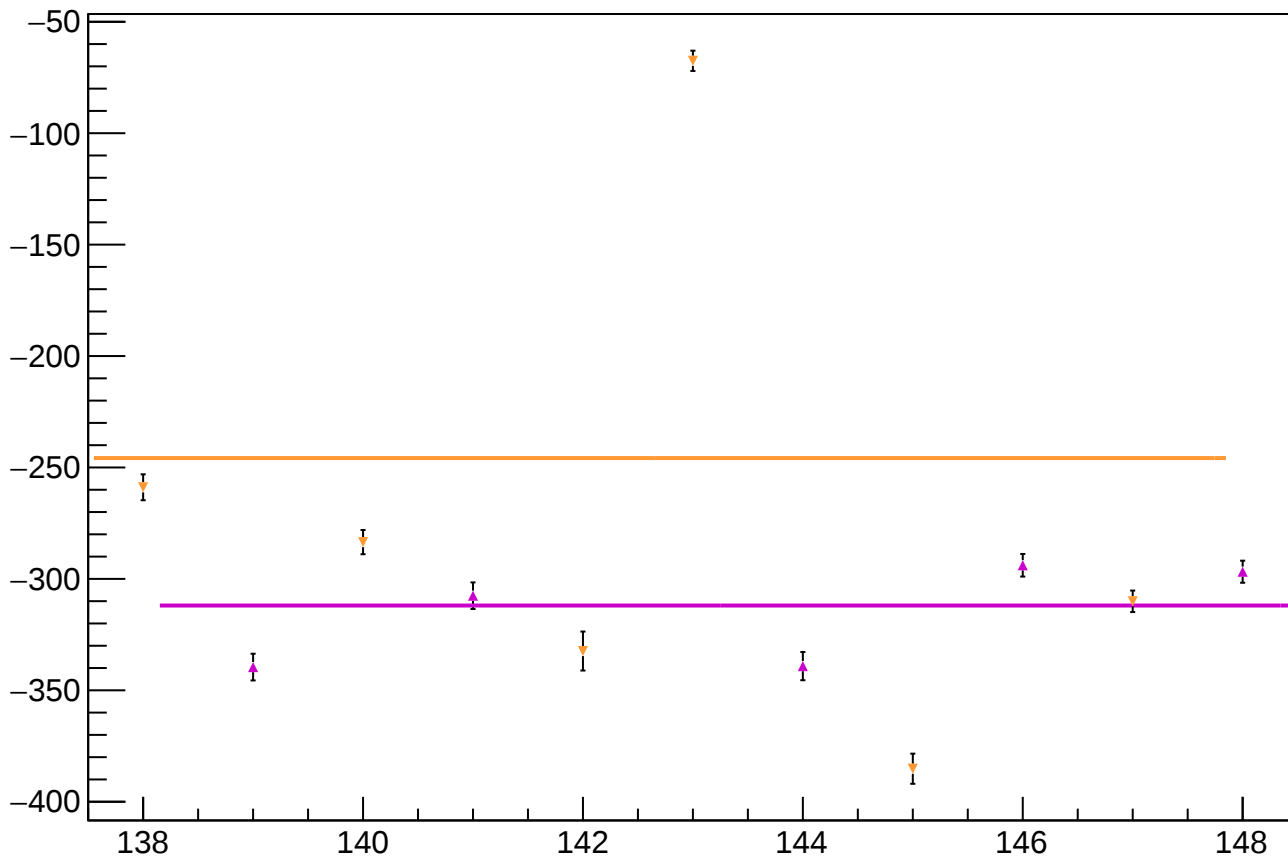
Left In: 121.671 +/- 0.078  $\chi^2/\text{NDF}$ : 994.6/4

+ sign 126.892 +/- 0.059  $\chi^2/\text{NDF}$ : 208458.2/22

All: 112.961 +/- 0.040  $\chi^2/\text{NDF}$ : 1195798.5/45

- sign 101.204 +/- 0.054  $\chi^2/\text{NDF}$ : 884583.4/22

# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-245.780 \pm 2.296$   $\chi^2/\text{NDF}$ : 2289.4/5

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

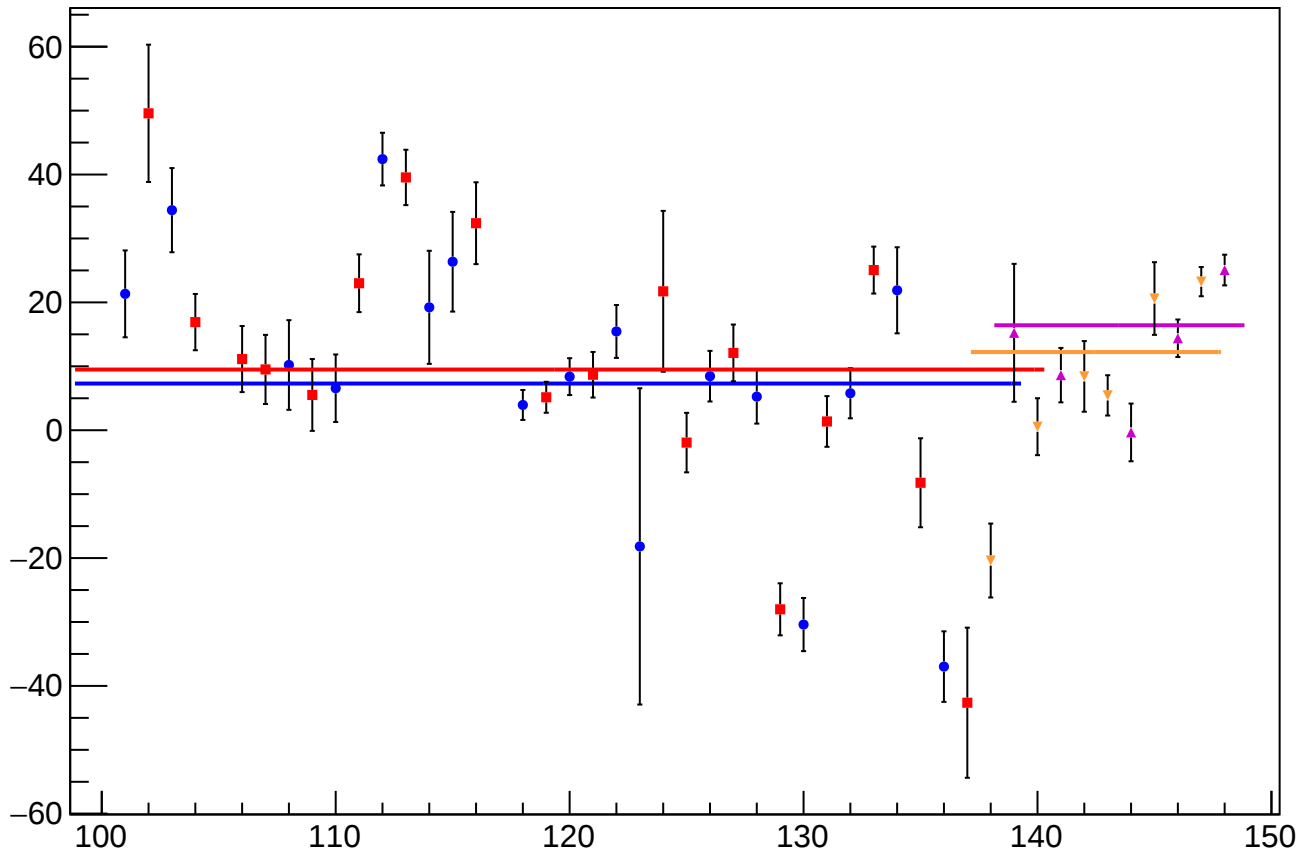
Left In:  $-311.947 \pm 2.496$   $\chi^2/\text{NDF}$ : 62.3/4

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-276.102 \pm 1.690$   $\chi^2/\text{NDF}$ : 2732.2/10

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.303 \pm 1.086$   $\chi^2/\text{NDF}$ : 260.6/16

Left Out:  $12.228 \pm 1.514$   $\chi^2/\text{NDF}$ : 69.2/5

Right Out:  $9.493 \pm 1.073$   $\chi^2/\text{NDF}$ : 231.1/17

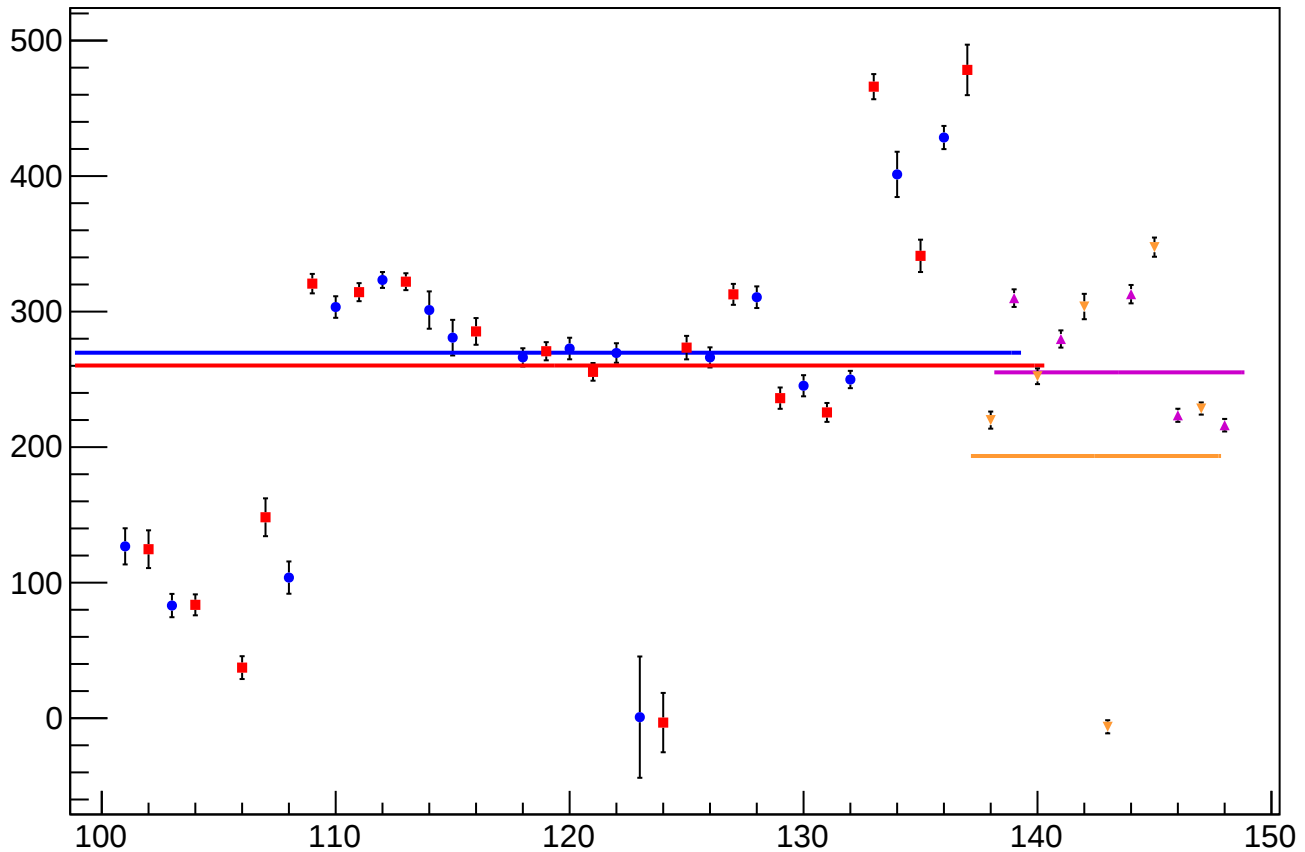
Left In:  $16.418 \pm 1.576$   $\chi^2/\text{NDF}$ : 30.6/4

+ sign  $8.976 \pm 0.882$   $\chi^2/\text{NDF}$ : 336.9/22

All:  $10.323 \pm 0.625$   $\chi^2/\text{NDF}$ : 616.5/45

- sign  $11.685 \pm 0.887$   $\chi^2/\text{NDF}$ : 274.9/22

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 269.664 +/- 2.076  $\chi^2/\text{NDF}$ : 1376.6/16

Left Out: 193.457 +/- 2.369  $\chi^2/\text{NDF}$ : 2488.9/5

Right Out: 260.226 +/- 1.979  $\chi^2/\text{NDF}$ : 2528.0/17

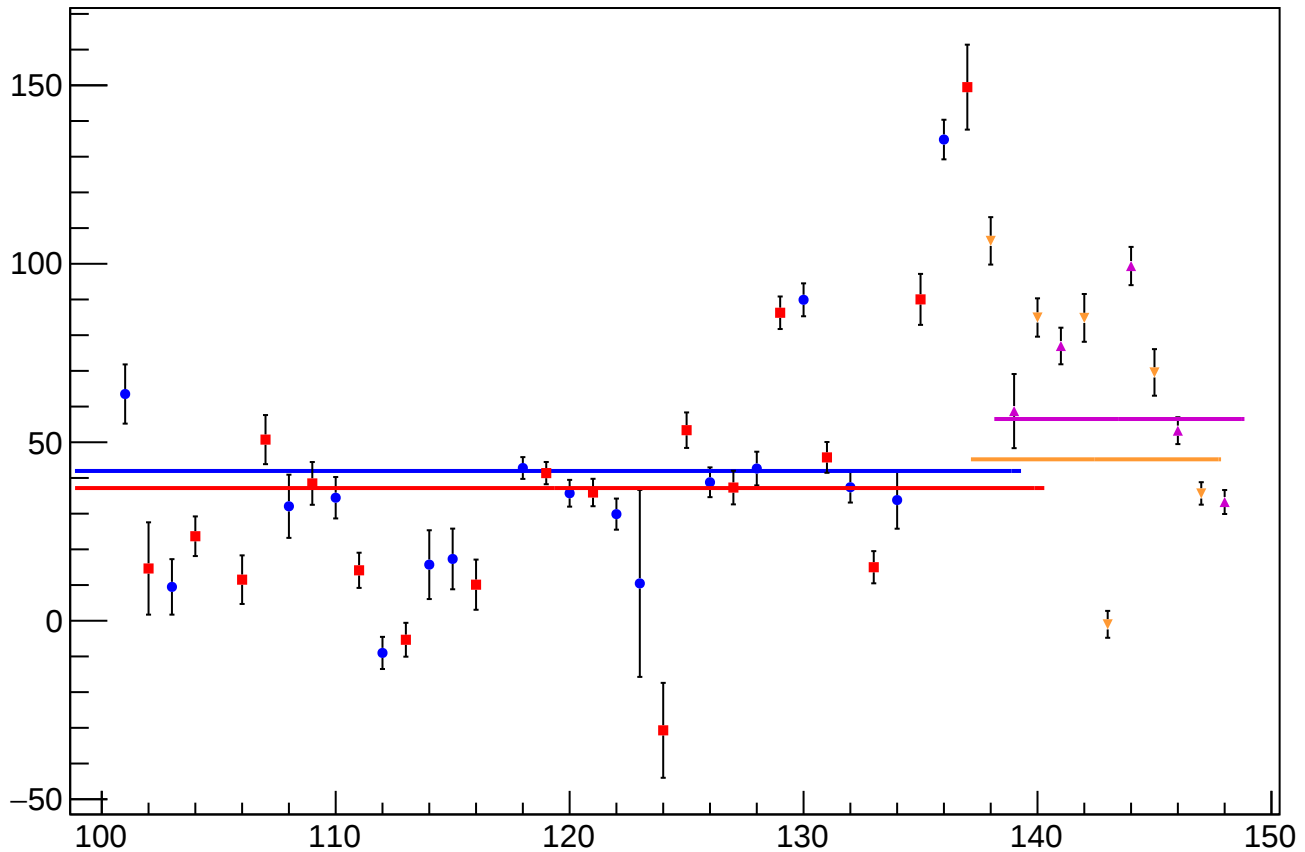
Left In: 255.174 +/- 2.505  $\chi^2/\text{NDF}$ : 272.0/4

+ sign 236.561 +/- 1.561  $\chi^2/\text{NDF}$ : 4450.9/22

All: 247.483 +/- 1.101  $\chi^2/\text{NDF}$ : 7350.7/45

- sign 258.285 +/- 1.553  $\chi^2/\text{NDF}$ : 2802.5/22

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 41.959 $\pm$ 1.258  $\chi^2$ /NDF: 574.2/16

Left Out: 45.221 $\pm$ 1.909  $\chi^2$ /NDF:348.1/5

Right Out: 37.171 $\pm$ 1.236  $\chi^2$ /NDF: 470.9/17

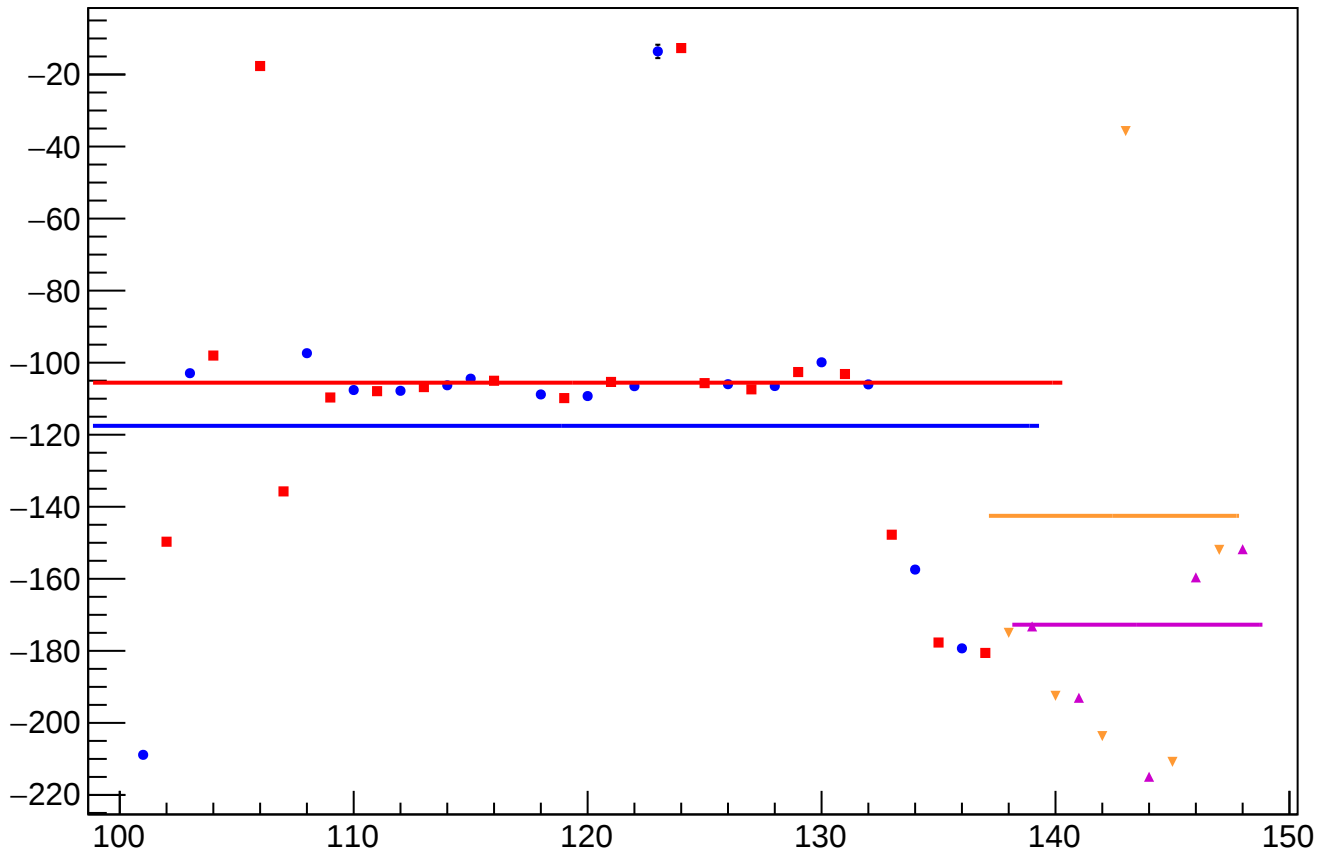
Left In: 56.517 $\pm$ 2.035  $\chi^2$ /NDF:128.7/4

+ sign 42.947 $\pm$ 1.051  $\chi^2$ /NDF: 924.4/22

All: 42.668 $\pm$ 0.745  $\chi^2$ /NDF: 1590.1/45

- sign 42.386 $\pm$ 1.056  $\chi^2$ /NDF: 665.6/22

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:  $-142.516 \pm 0.100$   $\chi^2/\text{NDF}: 444041.9/5$

Right Out:  $-105.555 \pm 0.073$   $\chi^2/\text{NDF}: 317428.5/17$

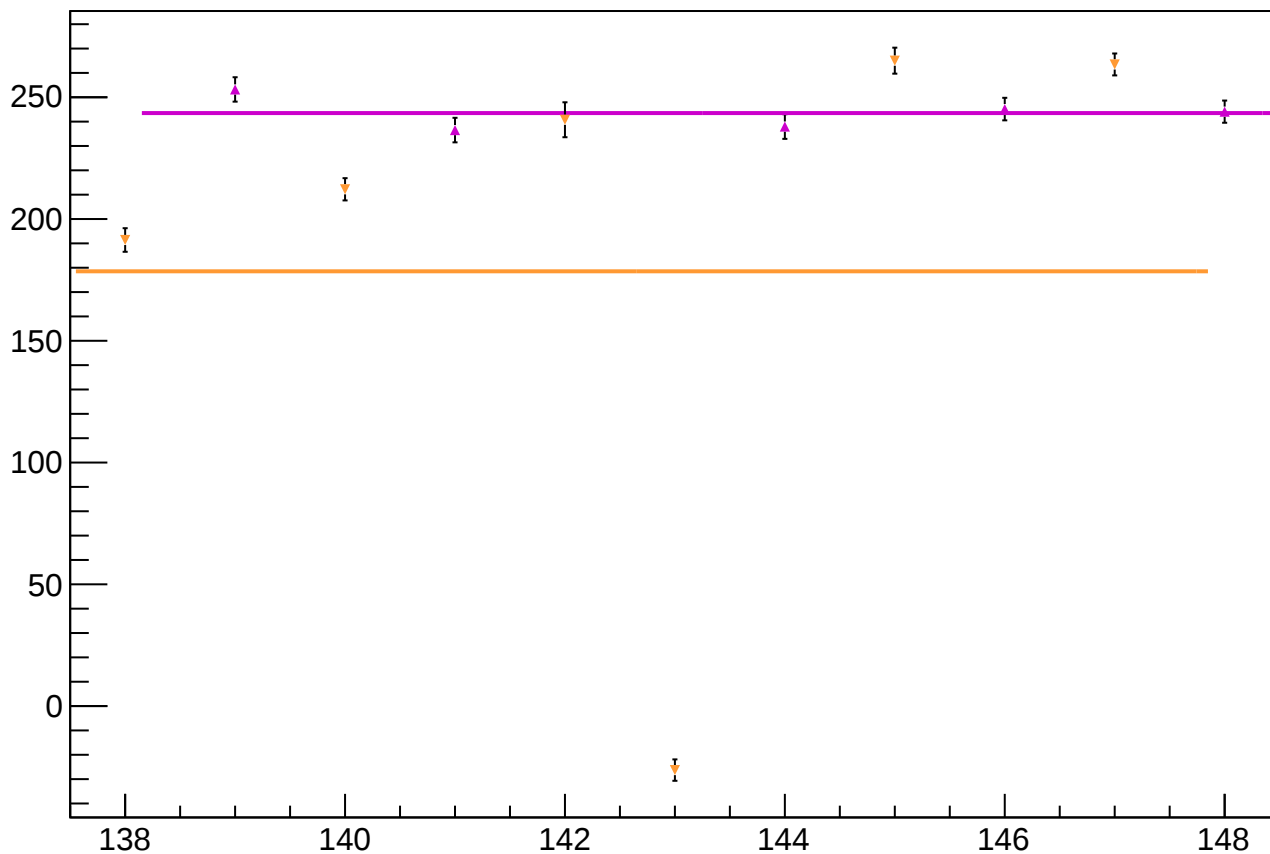
Left In:  $-172.741 \pm 0.105$   $\chi^2/\text{NDF}: 40972.0/4$

+ sign  $-127.001 \pm 0.062$   $\chi^2/\text{NDF}: 624835.6/22$

All:  $-127.225 \pm 0.043$   $\chi^2/\text{NDF}: 1260098.0/45$

- sign  $-127.436 \pm 0.060$   $\chi^2/\text{NDF}: 635236.8/22$

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 178.530+/-2.015  $\chi^2/\text{NDF}$ : 2927.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

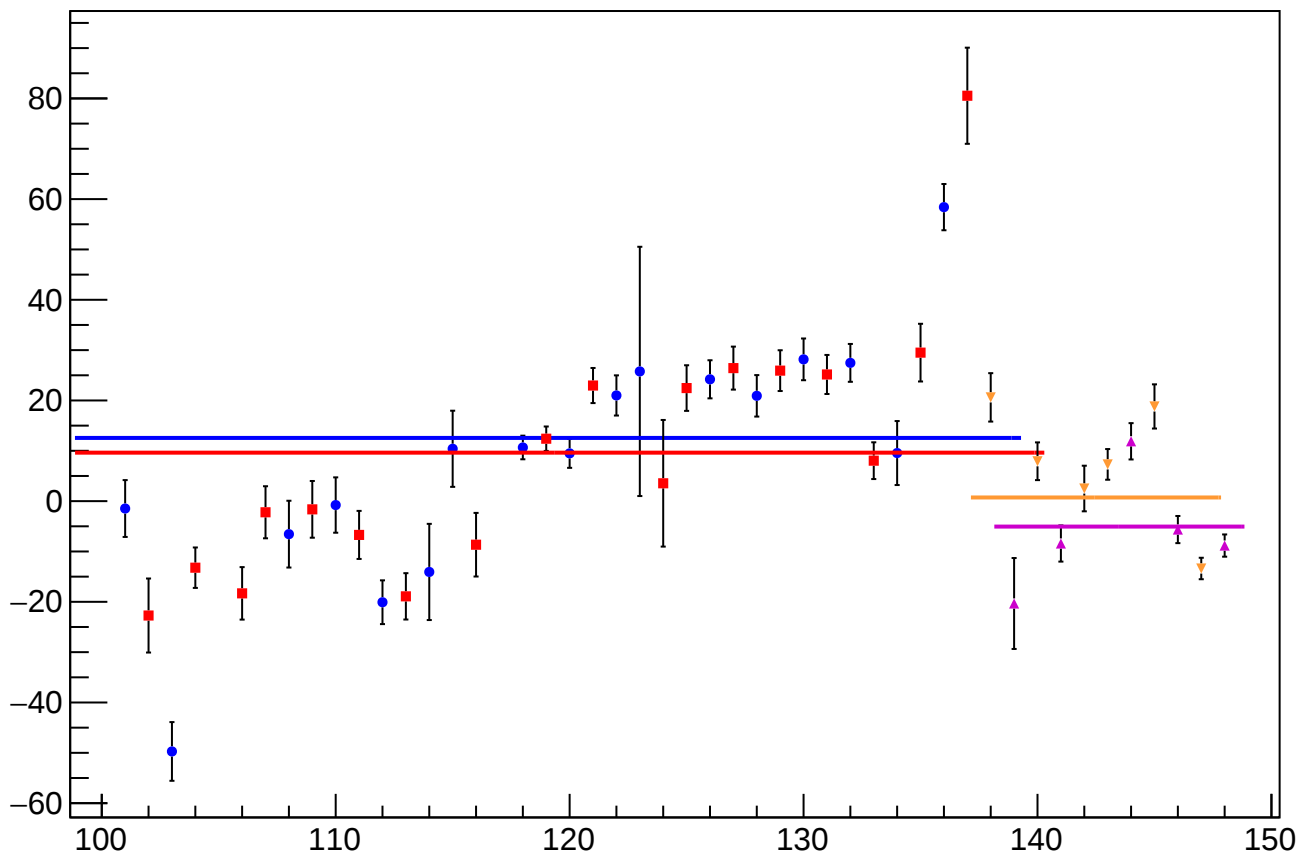
Left In: 243.508+/-2.166  $\chi^2/\text{NDF}$ : 7.0/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 208.687+/-1.475  $\chi^2/\text{NDF}$ : 3416.9/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 12.559 $\pm$ 1.057  $\chi^2$ /NDF: 348.6/16

Left Out: 0.729 $\pm$ 1.357  $\chi^2$ /NDF:86.4/5

Right Out: 9.631 $\pm$ 1.049  $\chi^2$ /NDF: 287.5/17

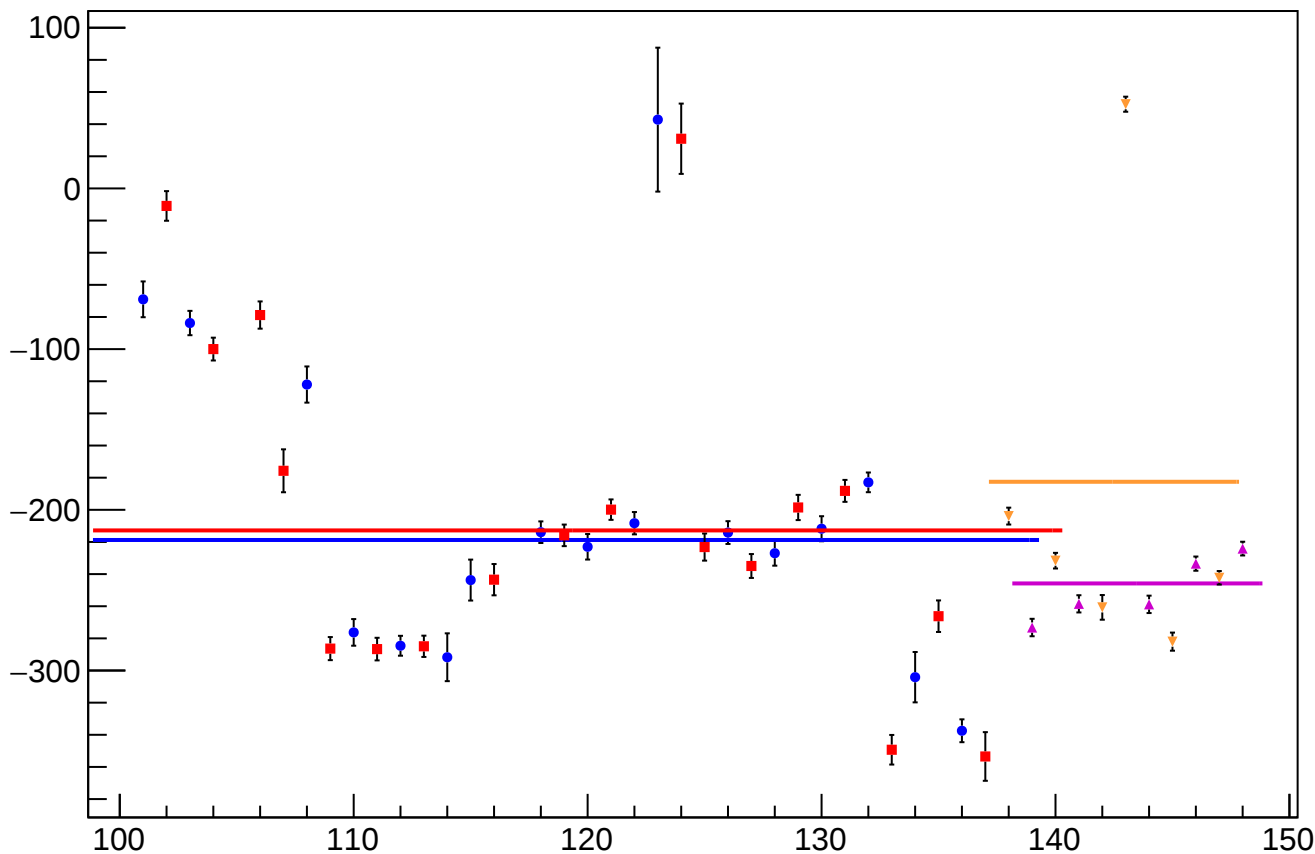
Left In: -5.054 $\pm$ 1.402  $\chi^2$ /NDF:28.7/4

+ sign 8.091 $\pm$ 0.834  $\chi^2$ /NDF: 482.2/22

All: 6.238 $\pm$ 0.592  $\chi^2$ /NDF: 878.7/45

- sign 4.358 $\pm$ 0.840  $\chi^2$ /NDF: 386.5/22

# 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:  $-182.550 \pm 2.089$   $\chi^2/\text{NDF}: 3247.4/5$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

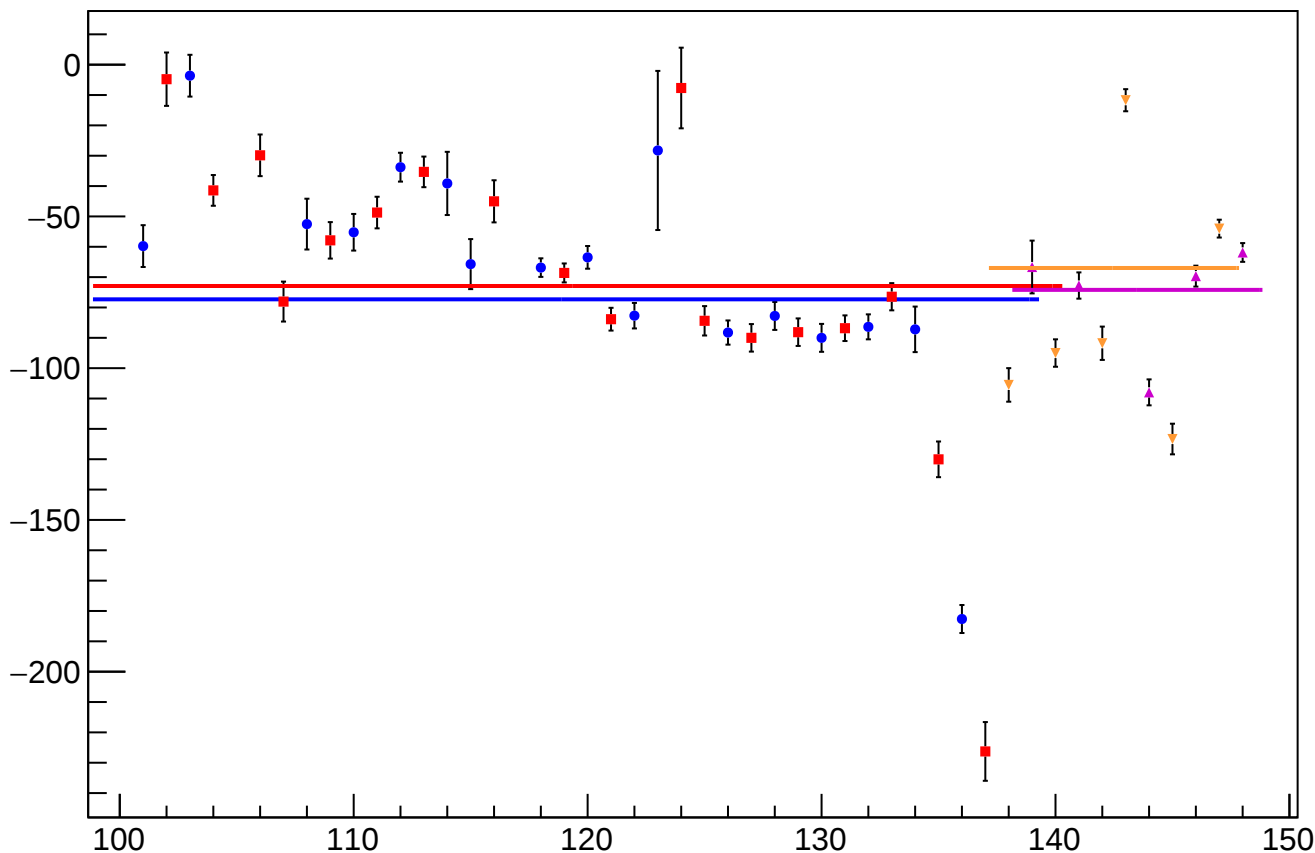
Left In:  $-245.808 \pm 2.188$   $\chi^2/\text{NDF}: 70.5/4$

+ sign  $-201.359 \pm 1.449$   $\chi^2/\text{NDF}: 4547.9/22$

All:  $-214.318 \pm 1.023$   $\chi^2/\text{NDF}: 6730.7/45$

- sign  $-227.225 \pm 1.446$   $\chi^2/\text{NDF}: 2023.1/22$

# 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:  $-66.988 \pm 1.702$   $\chi^2/\text{NDF}$ : 481.8/5

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

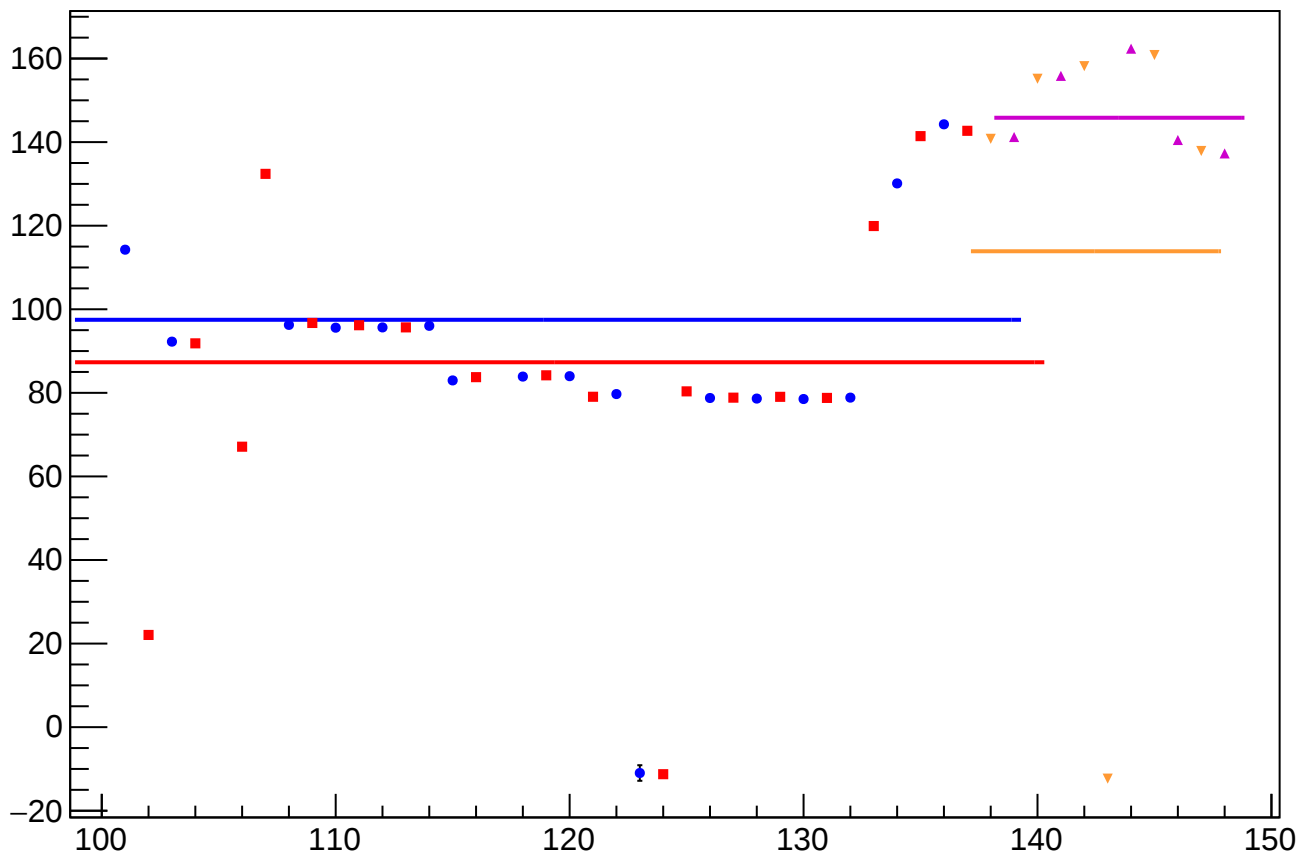
Left In:  $-74.200 \pm 1.796$   $\chi^2/\text{NDF}$ : 80.8/4

+ sign  $-73.806 \pm 0.993$   $\chi^2/\text{NDF}$ : 1323.8/22

All:  $-73.565 \pm 0.705$   $\chi^2/\text{NDF}$ : 2065.9/45

- sign  $-73.320 \pm 1.002$   $\chi^2/\text{NDF}$ : 742.0/22

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.483 $\pm$ 0.073  $\chi^2$ /NDF: 94392.9/16

Left Out: 113.881 $\pm$ 0.088  $\chi^2$ /NDF: 583959.4/5

Right Out: 87.318 $\pm$ 0.068  $\chi^2$ /NDF: 221863.6/17

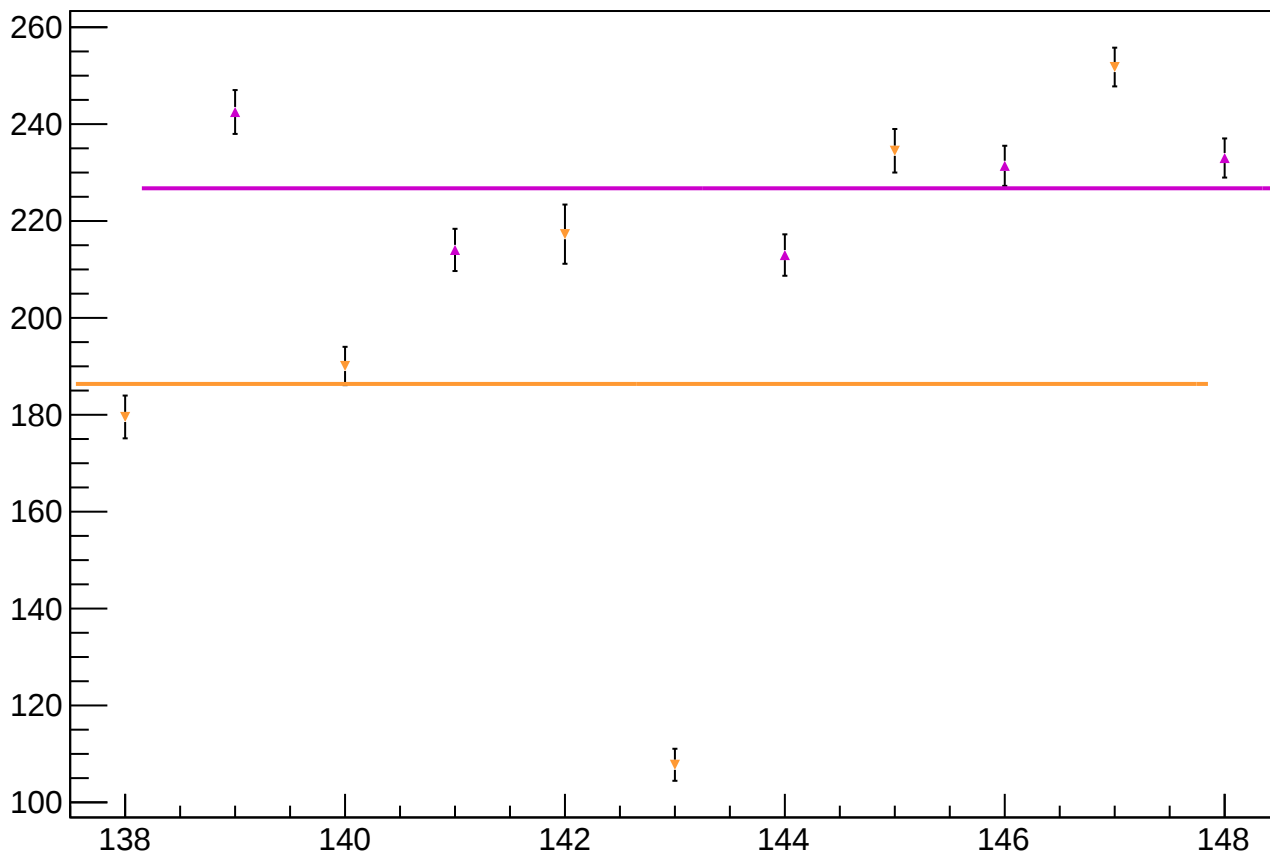
Left In: 145.829 $\pm$ 0.091  $\chi^2$ /NDF: 10464.3/4

+ sign 104.223 $\pm$ 0.056  $\chi^2$ /NDF: 698887.1/22

All: 106.359 $\pm$ 0.039  $\chi^2$ /NDF: 1197800.3/45

- sign 108.374 $\pm$ 0.055  $\chi^2$ /NDF: 496116.5/22

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: 186.370+/-1.701  $\chi^2/\text{NDF}$ : 976.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

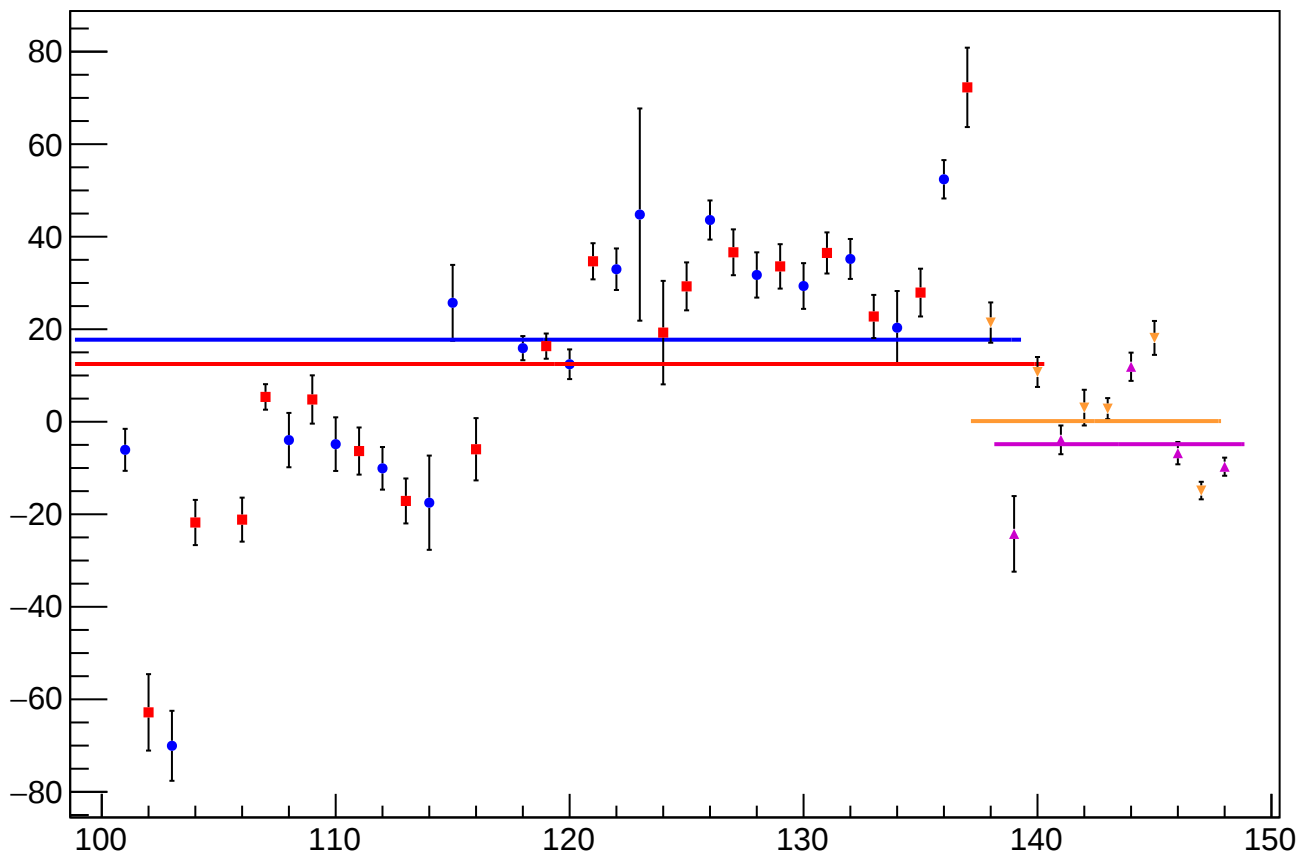
Left In: 226.752+/-1.904  $\chi^2/\text{NDF}$ : 34.7/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 204.293+/-1.269  $\chi^2/\text{NDF}$ : 1261.6/10

- 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:  $0.143 \pm 1.146$   $\chi^2/\text{NDF}$ : 123.6/5

Right Out:  $12.484 \pm 1.085$   $\chi^2/\text{NDF}$ : 429.2/17

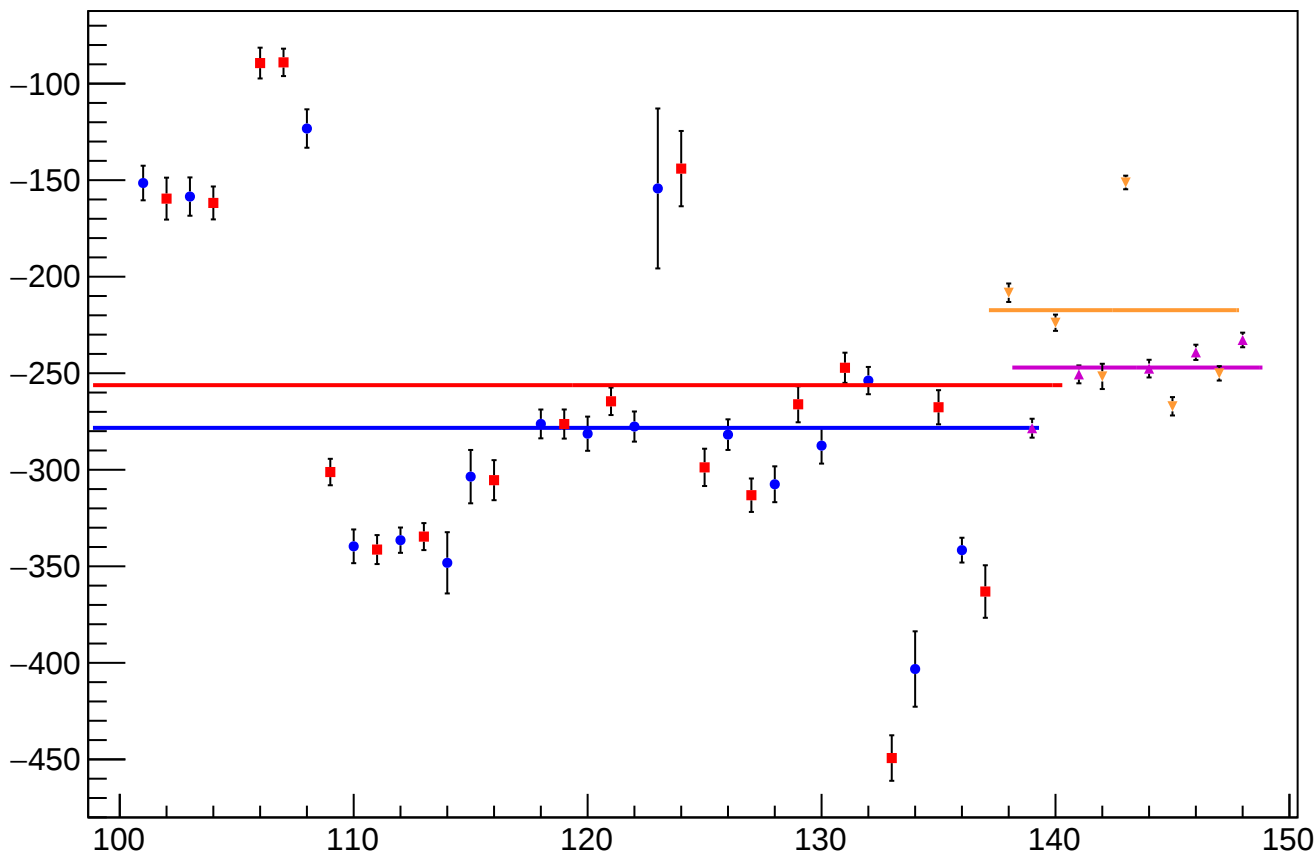
Left In:  $-4.848 \pm 1.232$   $\chi^2/\text{NDF}$ : 42.6/4

+ sign  $8.922 \pm 0.811$   $\chi^2/\text{NDF}$ : 635.1/22

All:  $6.925 \pm 0.575$   $\chi^2/\text{NDF}$ : 1230.5/45

- sign  $4.912 \pm 0.814$   $\chi^2/\text{NDF}$ : 583.2/22

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -278.294+/-2.172  $\chi^2/\text{NDF}$ : 910.0/16

Left Out: -217.340+/-1.768  $\chi^2/\text{NDF}$ : 571.6/5

Right Out: -256.177+/-2.025  $\chi^2/\text{NDF}$ : 1952.2/17

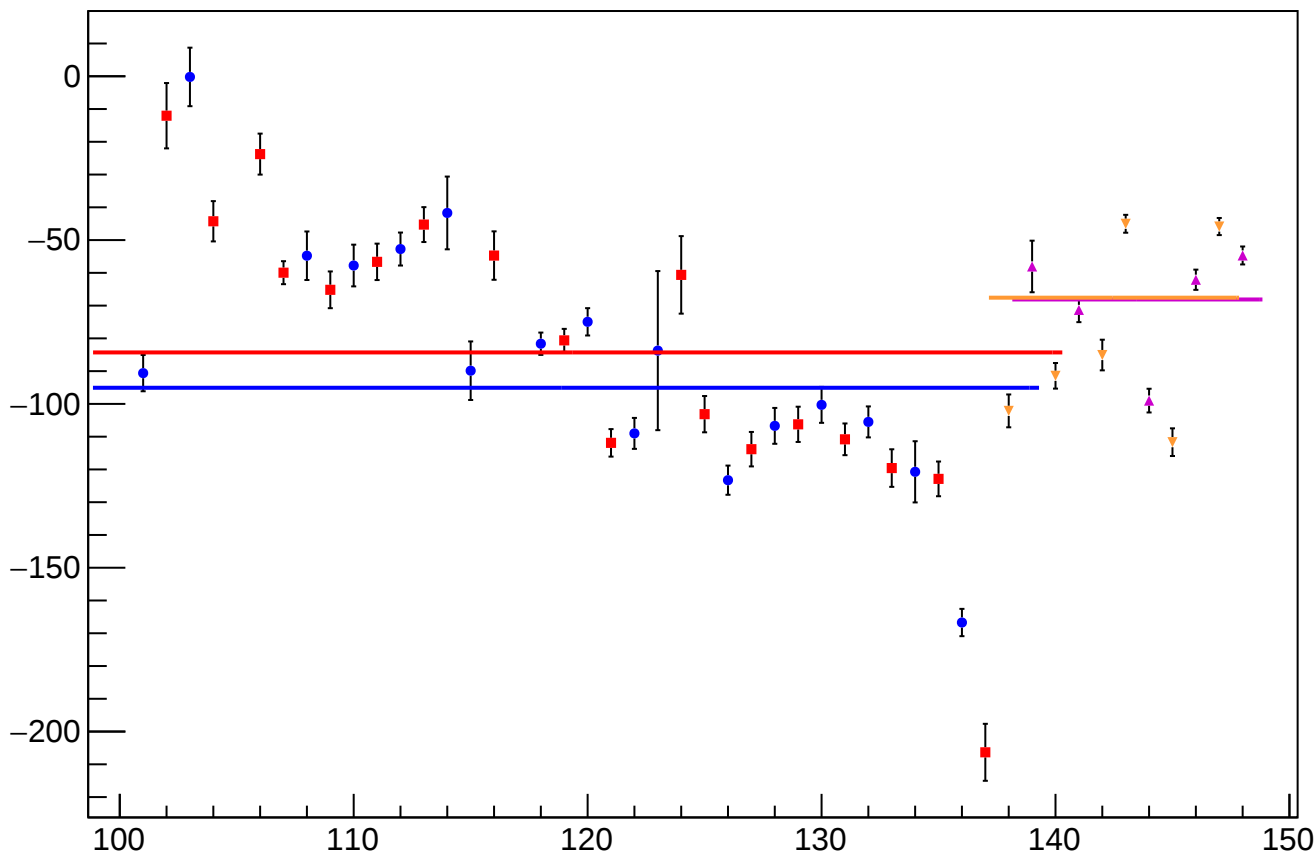
Left In: -247.051+/-1.926  $\chi^2/\text{NDF}$ : 59.9/4

+ sign -241.636+/-1.371  $\chi^2/\text{NDF}$ : 1955.1/22

All: -246.426+/-0.978  $\chi^2/\text{NDF}$ : 4002.8/45

- sign -251.385+/-1.395  $\chi^2/\text{NDF}$ : 2022.8/22

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:  $-67.579 \pm 1.432$   $\chi^2/\text{NDF}$ : 345.2/5

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

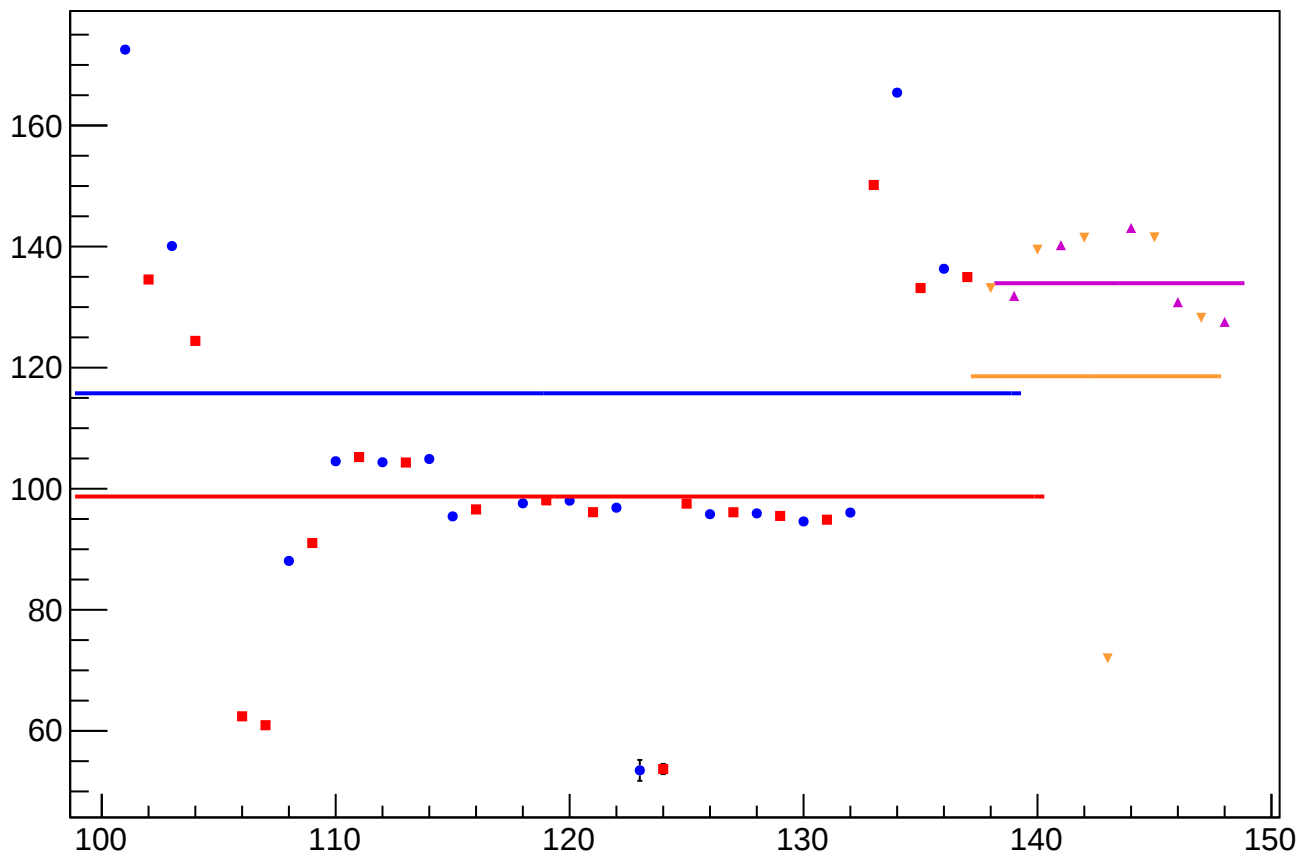
Left In:  $-68.128 \pm 1.577$   $\chi^2/\text{NDF}$ : 103.0/4

+ sign  $-82.385 \pm 0.973$   $\chi^2/\text{NDF}$ : 1217.0/22

All:  $-80.218 \pm 0.692$   $\chi^2/\text{NDF}$ : 2163.0/45

- sign  $-78.001 \pm 0.983$   $\chi^2/\text{NDF}$ : 935.9/22

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 115.763 $\pm$ 0.078  $\chi^2$ /NDF: 106297.4/16

Left Out: 118.571 $\pm$ 0.074  $\chi^2$ /NDF:152277.5/5

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

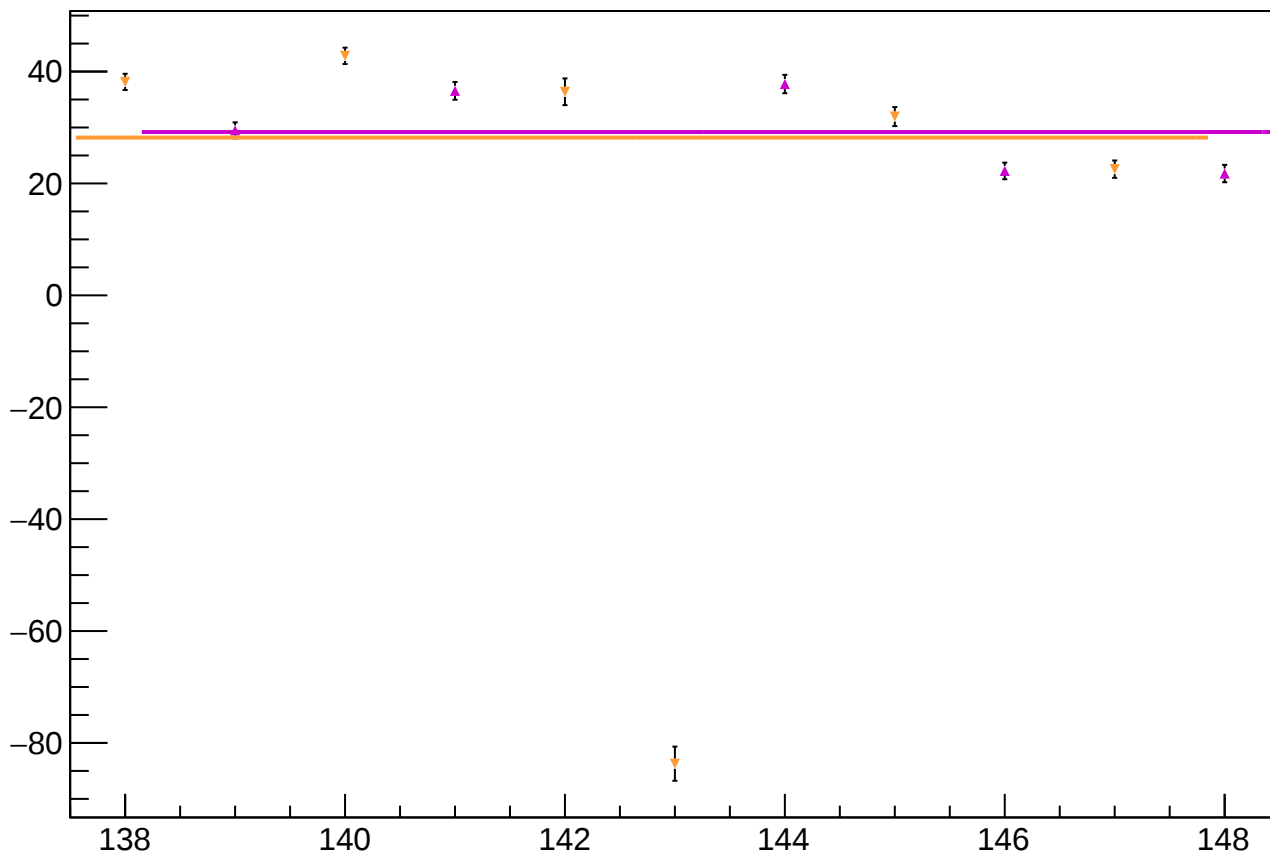
Left In: 133.950 $\pm$ 0.080  $\chi^2$ /NDF:5198.5/4

+ sign 117.240 $\pm$ 0.054  $\chi^2$ /NDF: 259255.4/22

All: 115.363 $\pm$ 0.037  $\chi^2$ /NDF: 548053.6/45

- sign 113.591 $\pm$ 0.052  $\chi^2$ /NDF: 286427.7/22

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 28.198+/-0.709  $\chi^2/\text{NDF}$ :1518.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

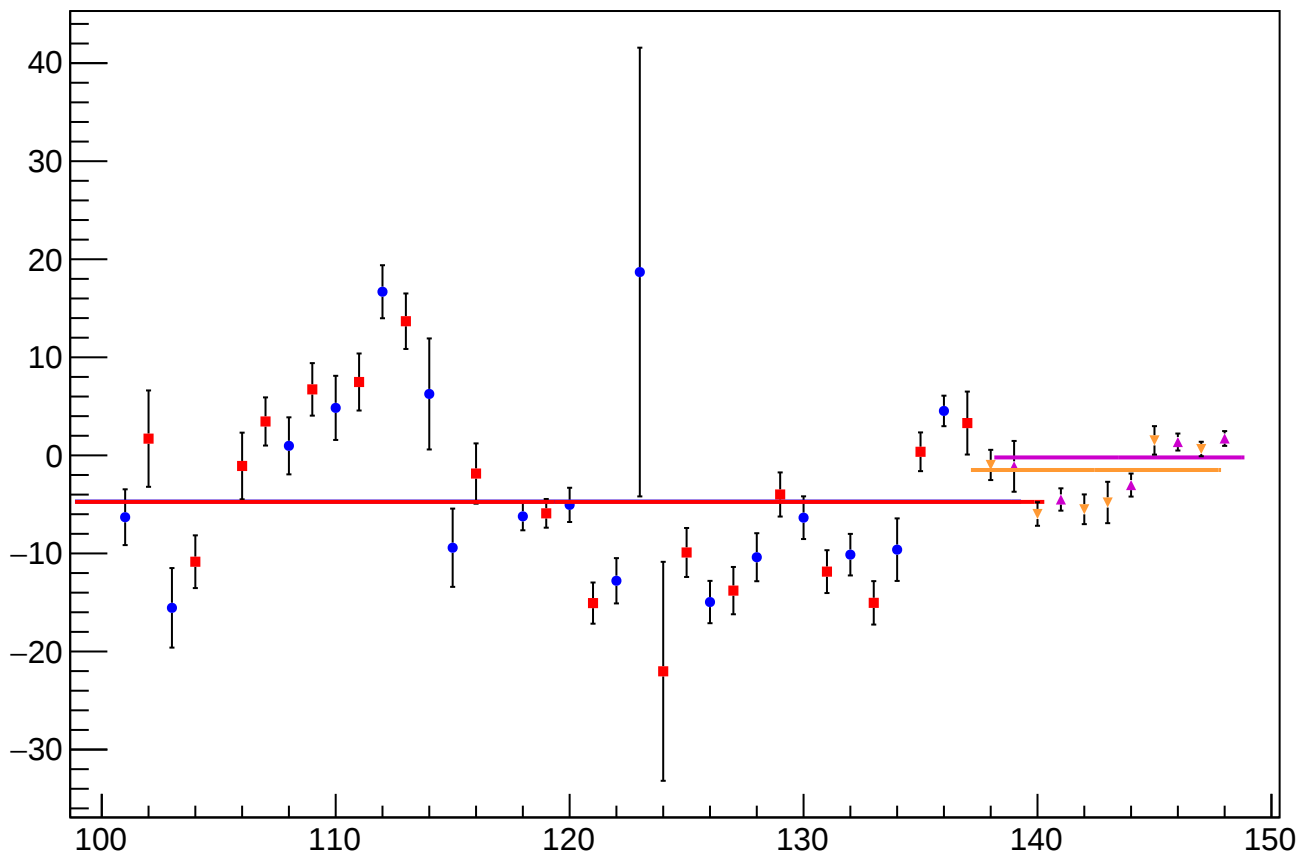
Left In: 29.192+/-0.686  $\chi^2/\text{NDF}$ :93.6/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.711+/-0.493  $\chi^2/\text{NDF}$ : 1613.1/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-4.713 \pm 0.581$   $\chi^2/\text{NDF}$ : 174.7/16

Left Out:  $-1.491 \pm 0.495$   $\chi^2/\text{NDF}$ : 36.2/5

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

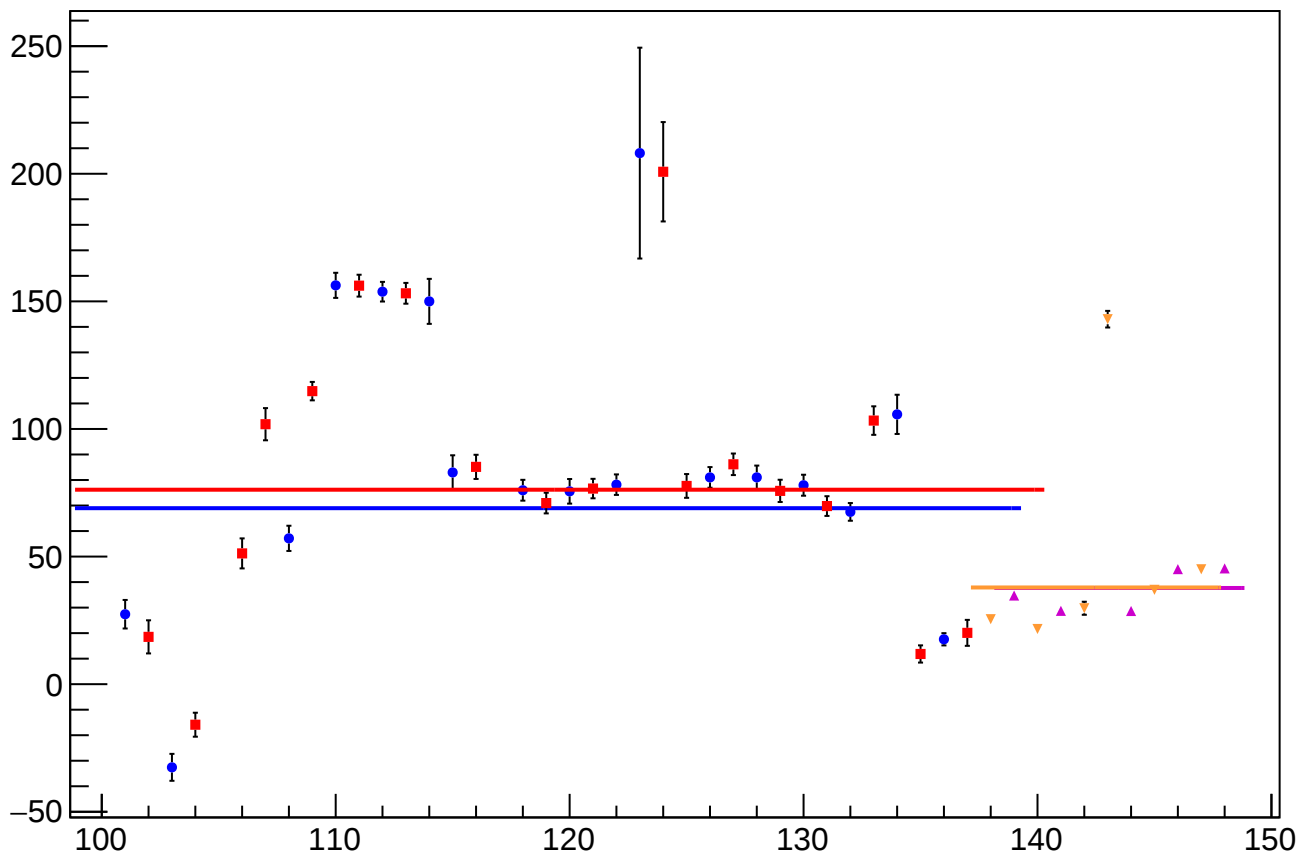
Left In:  $-0.210 \pm 0.459$   $\chi^2/\text{NDF}$ : 29.9/4

+ sign  $-2.846 \pm 0.377$   $\chi^2/\text{NDF}$ : 228.7/22

All:  $-2.374 \pm 0.261$   $\chi^2/\text{NDF}$ : 488.1/45

- sign  $-1.939 \pm 0.361$   $\chi^2/\text{NDF}$ : 256.4/22

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 68.960 $\pm$ 1.079  $\chi^2$ /NDF: 1844.0/16

Left Out: 37.891 $\pm$ 0.734  $\chi^2$ /NDF:1246.9/5

Right Out: 76.199 $\pm$ 1.071  $\chi^2$ /NDF: 1881.0/17

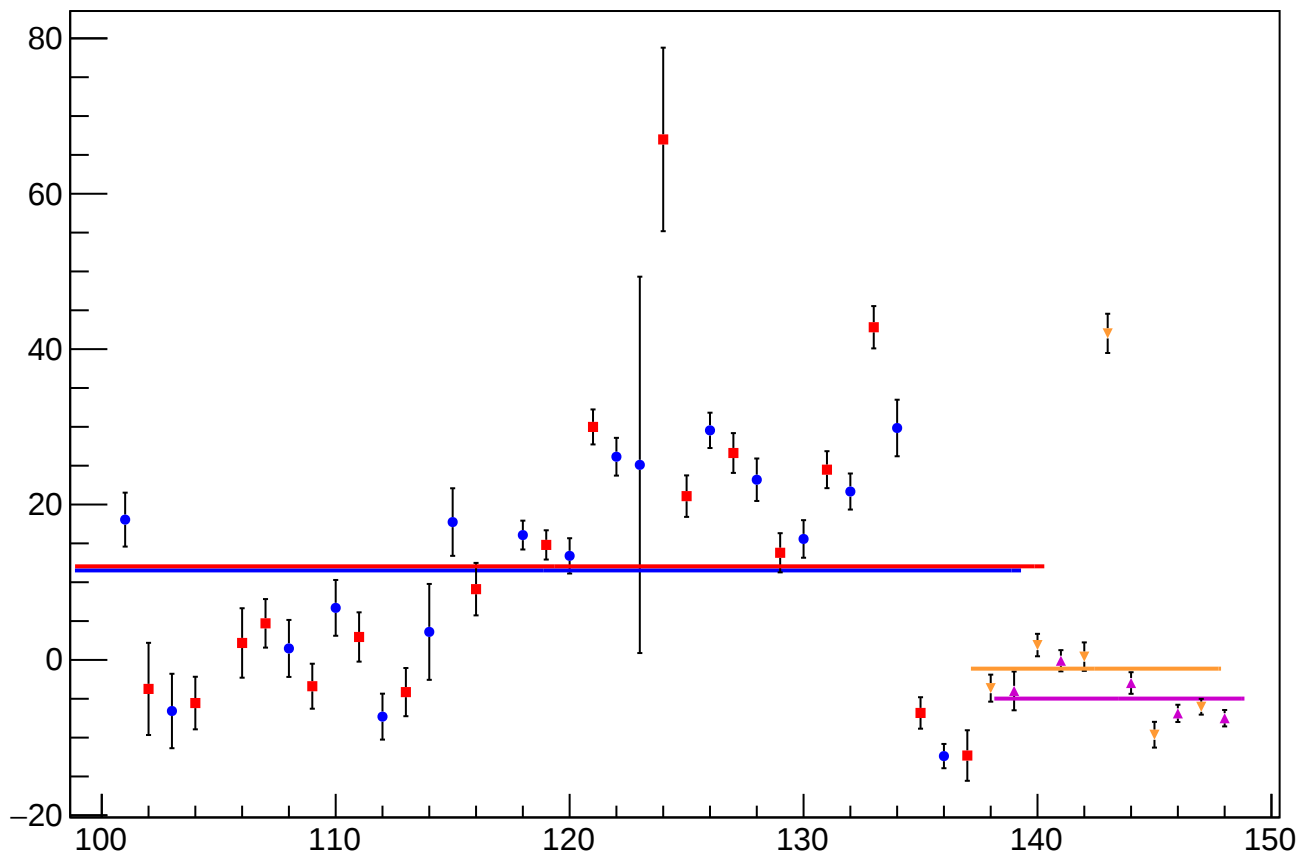
Left In: 37.692 $\pm$ 0.697  $\chi^2$ /NDF:113.0/4

+ sign 47.714 $\pm$ 0.607  $\chi^2$ /NDF: 3657.9/22

All: 48.455 $\pm$ 0.421  $\chi^2$ /NDF: 6563.2/45

- sign 49.142 $\pm$ 0.584  $\chi^2$ /NDF: 2902.3/22

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.521 $\pm$ 0.660  $\chi^2$ /NDF: 477.2/16

Left Out: -1.123 $\pm$ 0.620  $\chi^2$ /NDF: 348.9/5

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

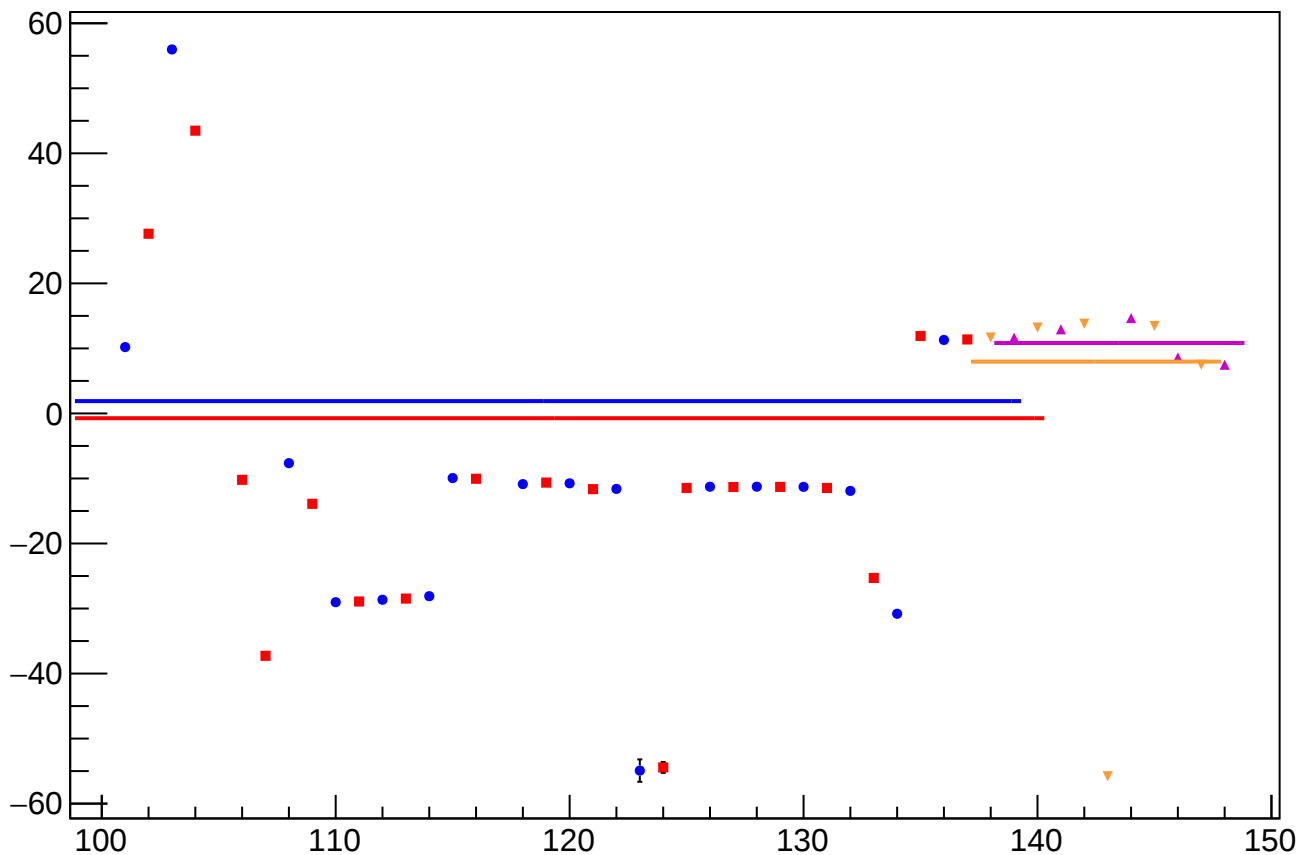
Left In: -4.977 $\pm$ 0.585  $\chi^2$ /NDF: 23.6/4

+ sign 4.809 $\pm$ 0.452  $\chi^2$ /NDF: 1021.0/22

All: 3.596 $\pm$ 0.315  $\chi^2$ /NDF: 1967.2/45

- sign 2.452 $\pm$ 0.439  $\chi^2$ /NDF: 932.2/22

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 1.896 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 358855.7/16

Left Out: 7.968 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 256015.8/5

Right Out: -0.733 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 359934.4/17

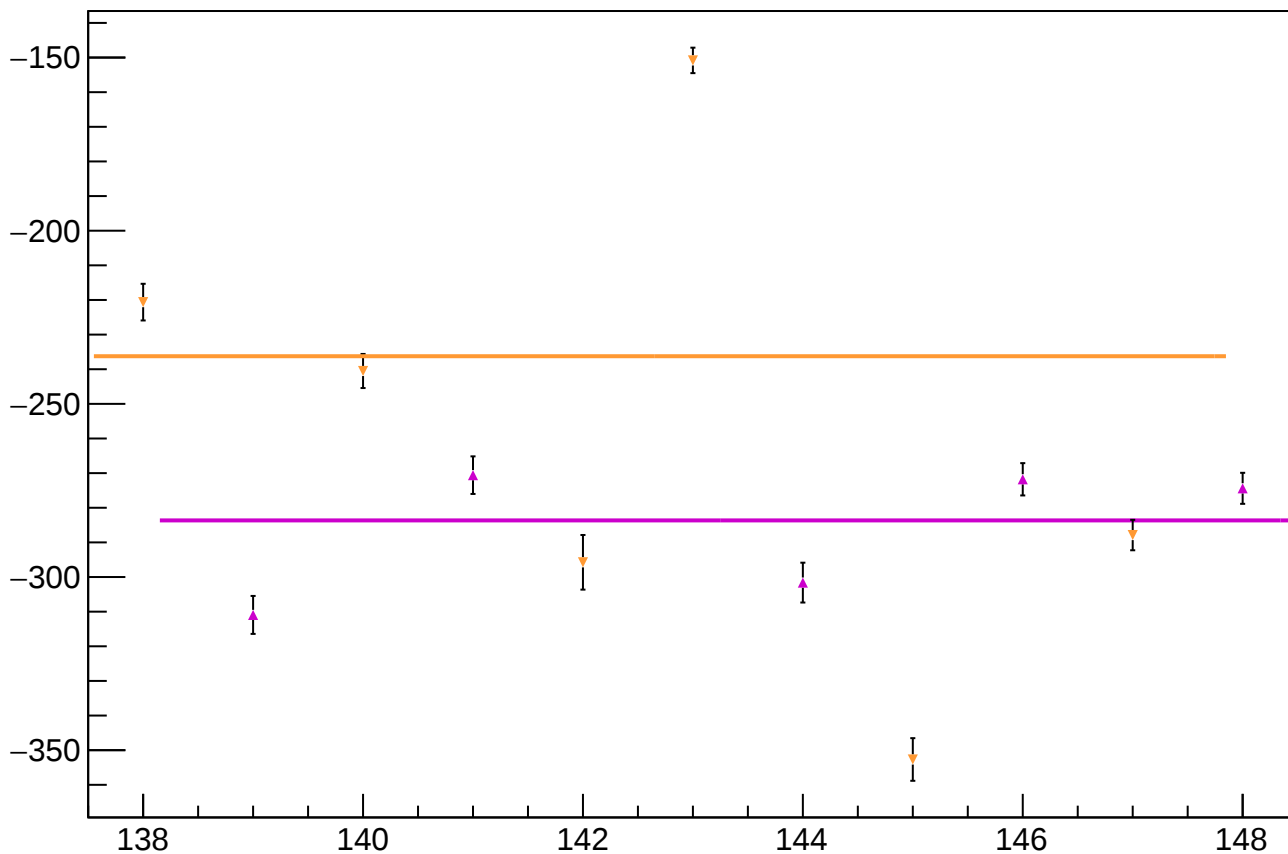
Left In: 10.831 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 7717.0/4

+ sign 5.494 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 630793.9/22

All: 6.016 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 1060078.7/45

- sign 6.497 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 428348.5/22

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: -236.244+/-2.019  $\chi^2/\text{NDF}$ : 1102.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

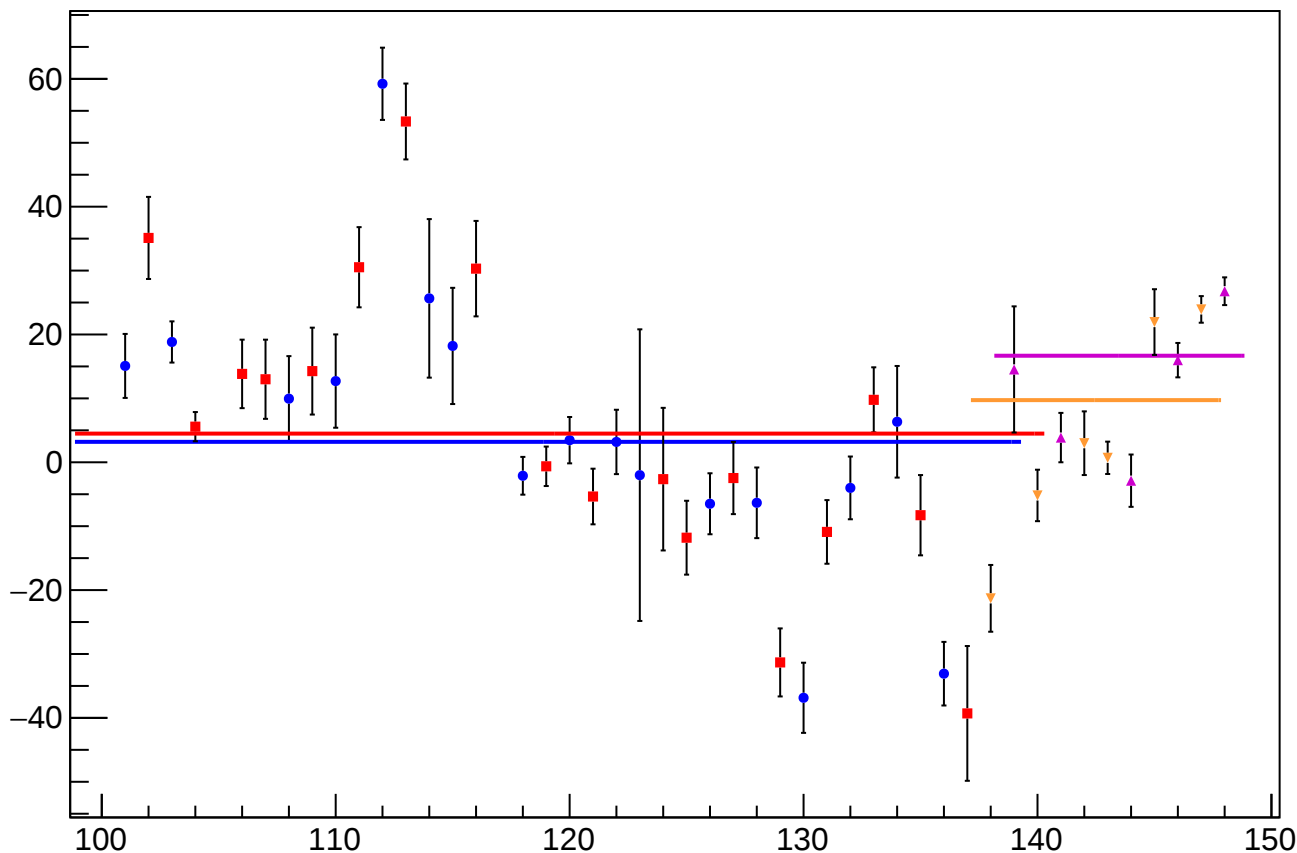
Left In: -283.651+/-2.274  $\chi^2/\text{NDF}$ : 51.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -257.142+/-1.510  $\chi^2/\text{NDF}$ : 1396.2/10

- 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:  $9.727 \pm 1.333$   $\chi^2/\text{NDF}$ : 115.6/5

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}$ : 221.8/17

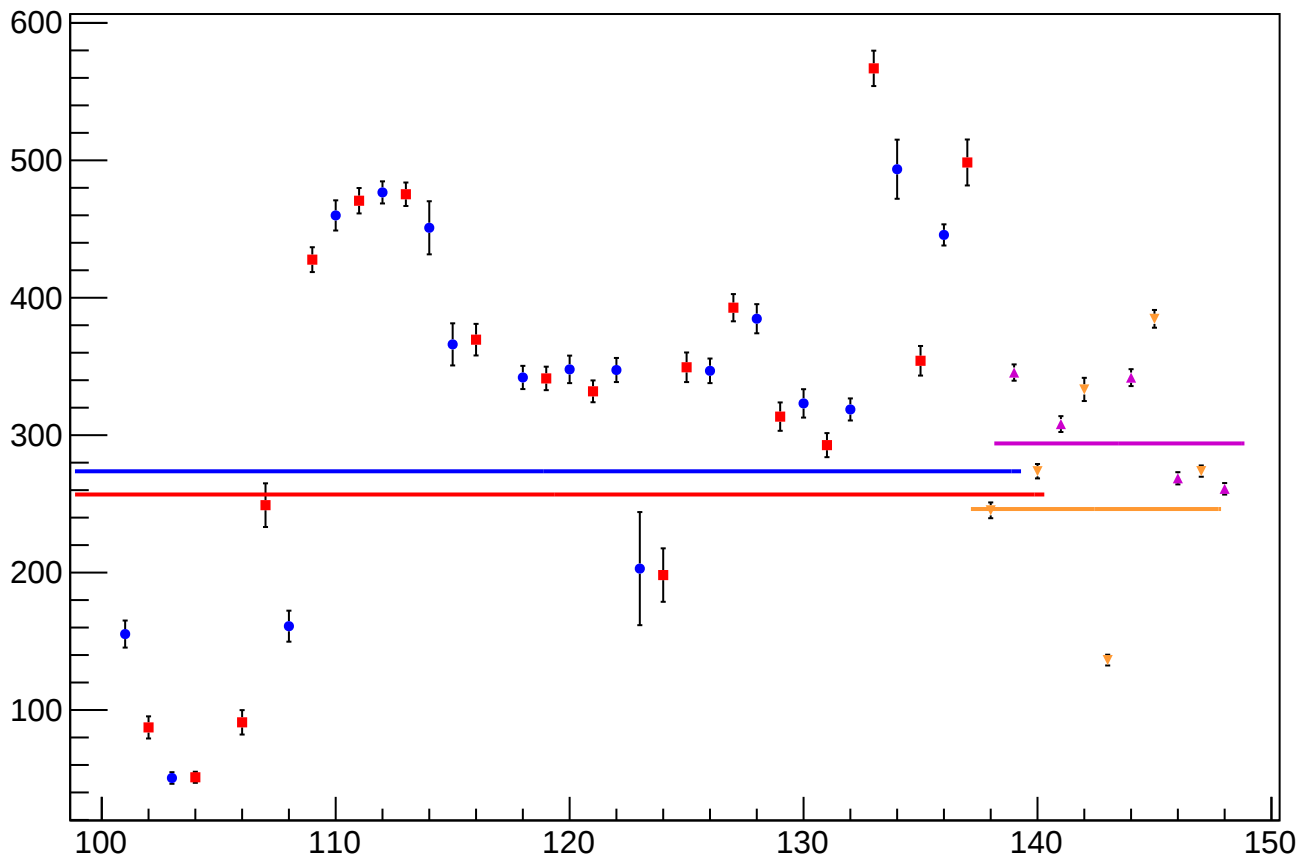
Left In:  $16.676 \pm 1.433$   $\chi^2/\text{NDF}$ : 55.6/4

+ sign  $6.195 \pm 0.903$   $\chi^2/\text{NDF}$ : 383.8/22

All:  $7.755 \pm 0.638$   $\chi^2/\text{NDF}$ : 710.8/45

- sign  $9.308 \pm 0.901$   $\chi^2/\text{NDF}$ : 321.1/22

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 273.717 $\pm$ 2.195  $\chi^2$ /NDF: 5103.3/16

Left Out: 246.257 $\pm$ 2.088  $\chi^2$ /NDF:1424.9/5

Right Out: 256.826 $\pm$ 2.084  $\chi^2$ /NDF: 6411.8/17

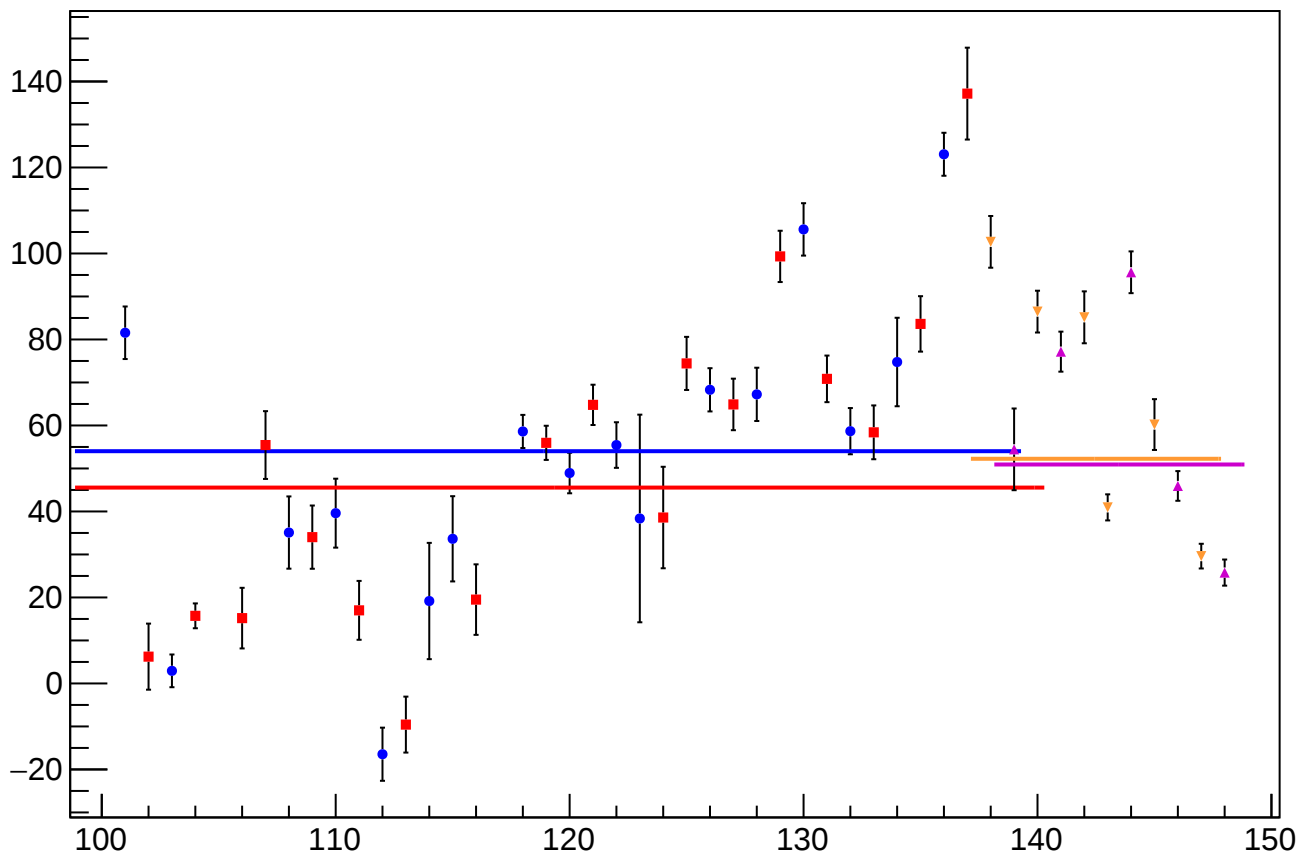
Left In: 293.981 $\pm$ 2.282  $\chi^2$ /NDF:236.4/4

+ sign 259.308 $\pm$ 1.513  $\chi^2$ /NDF: 6610.4/22

All: 266.392 $\pm$ 1.079  $\chi^2$ /NDF: 13447.7/45

- sign 273.719 $\pm$ 1.539  $\chi^2$ /NDF: 6792.8/22

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: 52.252 $\pm$ 1.676  $\chi^2$ /NDF: 227.4/5

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

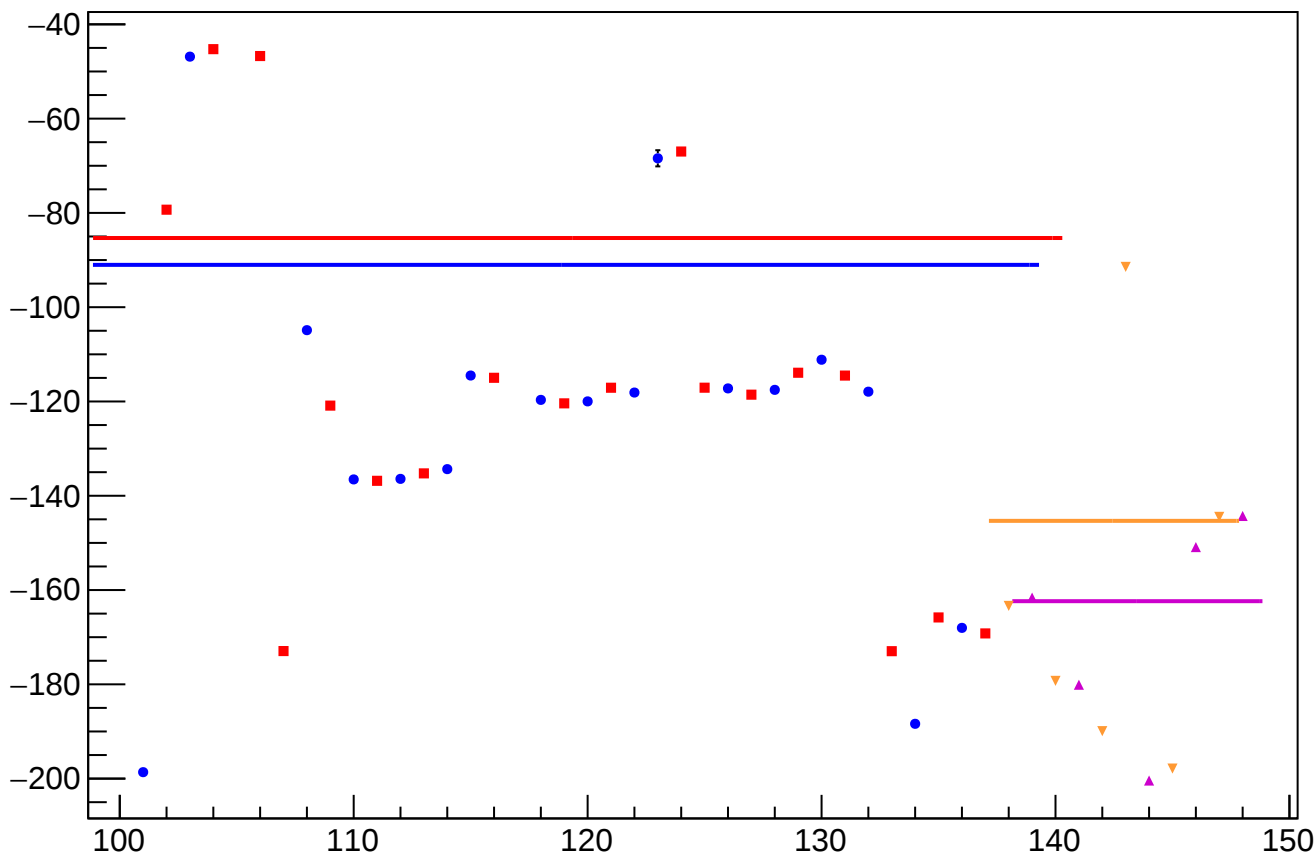
Left In: 50.922 $\pm$ 1.851  $\chi^2$ /NDF: 187.2/4

+ sign 53.277 $\pm$ 1.085  $\chi^2$ /NDF: 860.9/22

All: 50.382 $\pm$ 0.771  $\chi^2$ /NDF: 1594.7/45

- sign 47.433 $\pm$ 1.095  $\chi^2$ /NDF: 719.3/22

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -91.021+/-0.068  $\chi^2/\text{NDF}$ : 534258.1/16

Left Out: -145.323+/-0.088  $\chi^2/\text{NDF}$ : 204423.5/5

Right Out: -85.325+/-0.065  $\chi^2/\text{NDF}$ : 483106.3/17

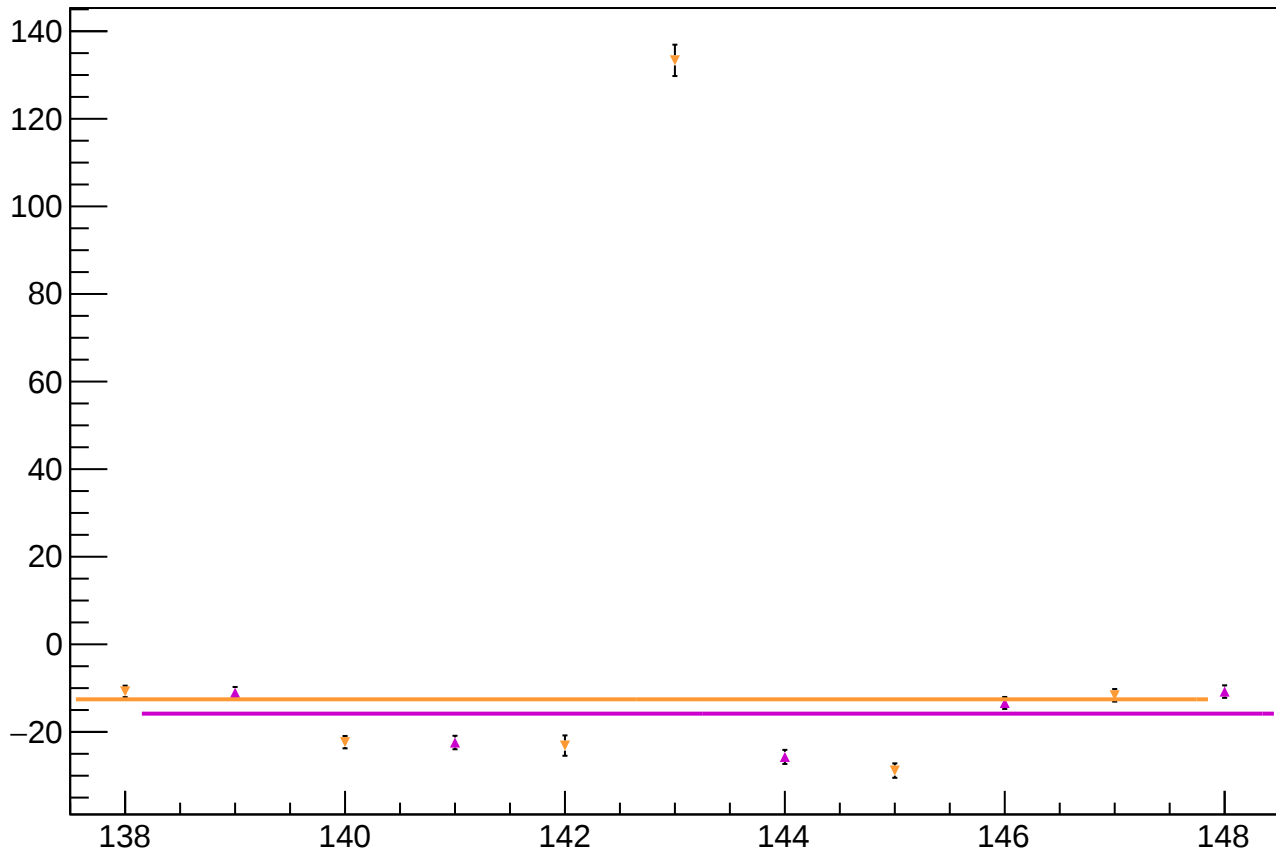
Left In: -162.363+/-0.096  $\chi^2/\text{NDF}$ : 38910.4/4

+ sign -111.174+/-0.054  $\chi^2/\text{NDF}$ : 978279.5/22

All: -110.484+/-0.038  $\chi^2/\text{NDF}$ : 1944476.4/45

- sign -109.789+/-0.054  $\chi^2/\text{NDF}$ : 965864.5/22

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: -12.556+/-0.674  $\chi^2/\text{NDF}$ :1828.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

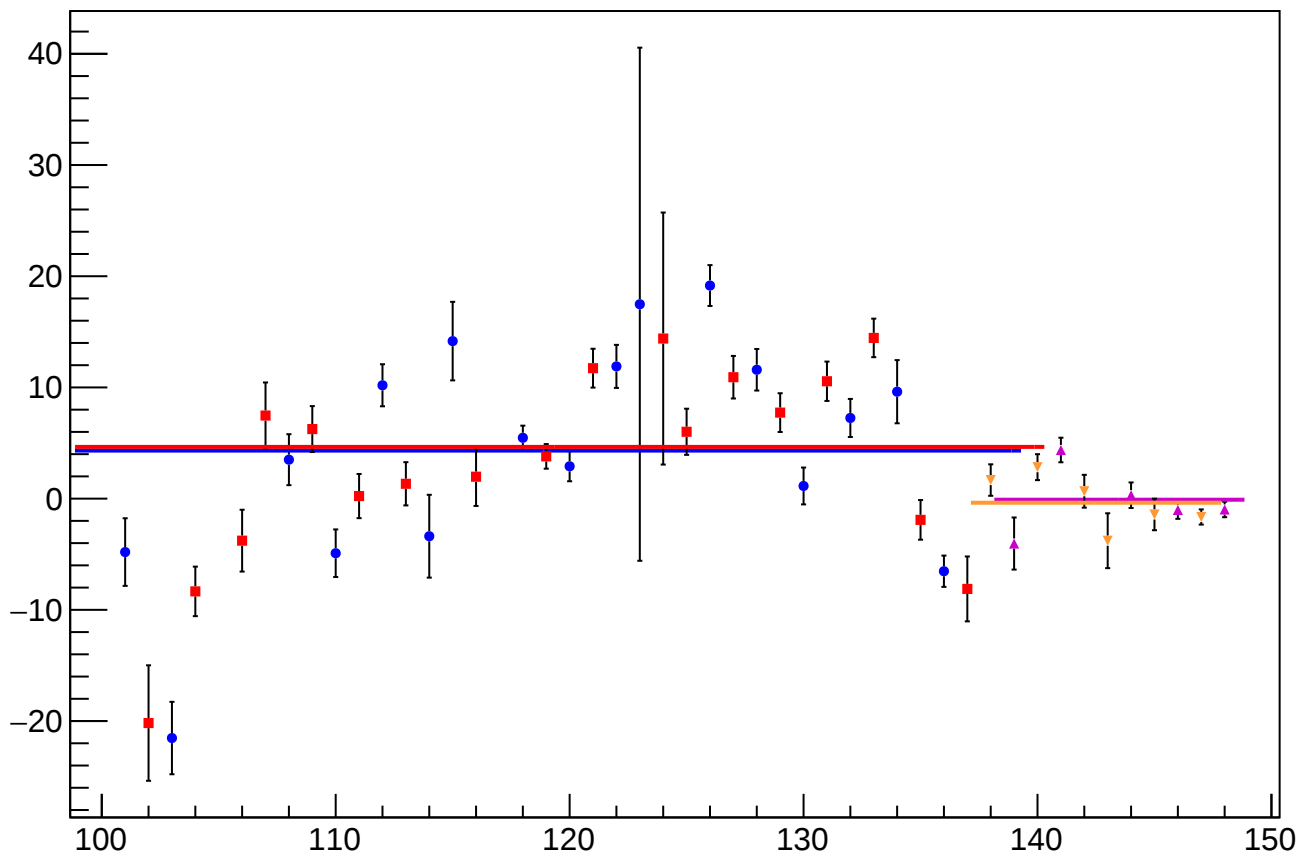
Left In: -15.828+/-0.642  $\chi^2/\text{NDF}$ :85.4/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.272+/-0.465  $\chi^2/\text{NDF}$ : 1926.1/10

- 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:  $-0.368 \pm 0.471$   $\chi^2/\text{NDF}$ : 16.1/5

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.4/17

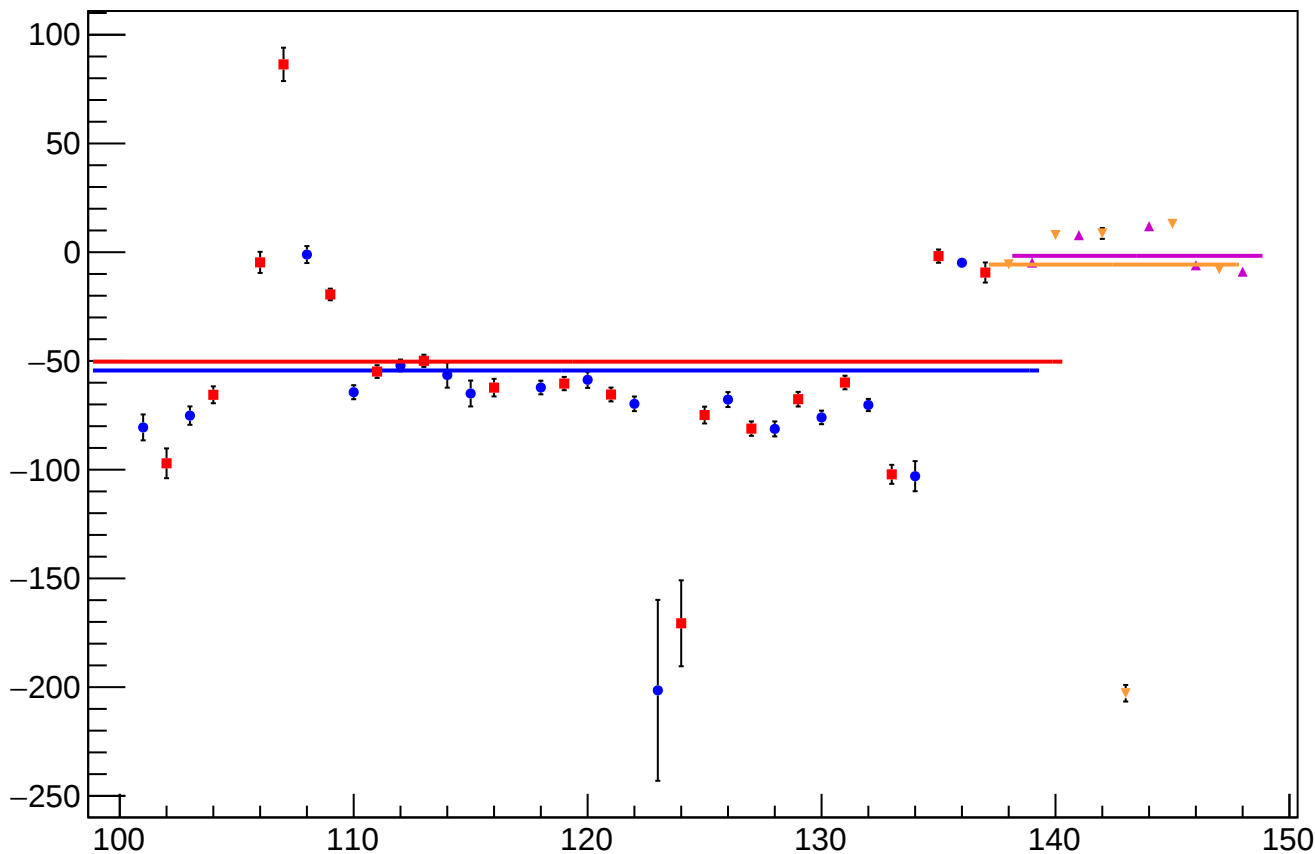
Left In:  $-0.097 \pm 0.431$   $\chi^2/\text{NDF}$ : 22.3/4

+ sign  $2.006 \pm 0.331$   $\chi^2/\text{NDF}$ : 346.6/22

All:  $2.030 \pm 0.230$   $\chi^2/\text{NDF}$ : 608.2/45

- sign  $2.052 \pm 0.319$   $\chi^2/\text{NDF}$ : 261.7/22

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:  $-5.670 \pm 0.696$   $\chi^2/\text{NDF}$ : 2900.0/5

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}$ : 1319.3/17

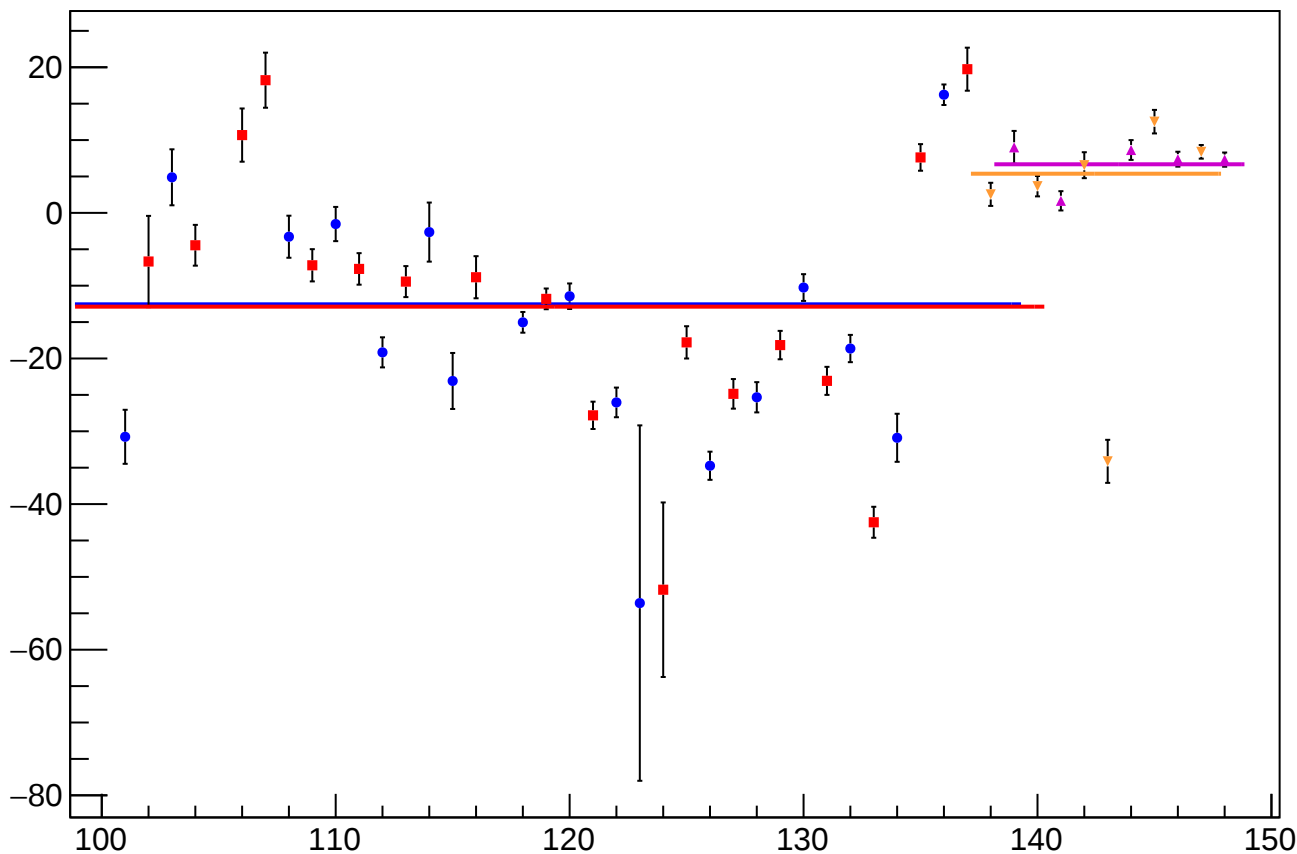
Left In:  $-1.660 \pm 0.651$   $\chi^2/\text{NDF}$ : 141.8/4

+ sign  $-24.843 \pm 0.542$   $\chi^2/\text{NDF}$ : 5839.9/22

All:  $-22.023 \pm 0.375$   $\chi^2/\text{NDF}$ : 9392.0/45

- sign  $-19.442 \pm 0.519$   $\chi^2/\text{NDF}$ : 3500.3/22

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -12.561 $\pm$ 0.531  $\chi^2$ /NDF: 779.5/16

Left Out: 5.379 $\pm$ 0.592  $\chi^2$ /NDF:213.5/5

Right Out: -12.881 $\pm$ 0.538  $\chi^2$ /NDF: 726.6/17

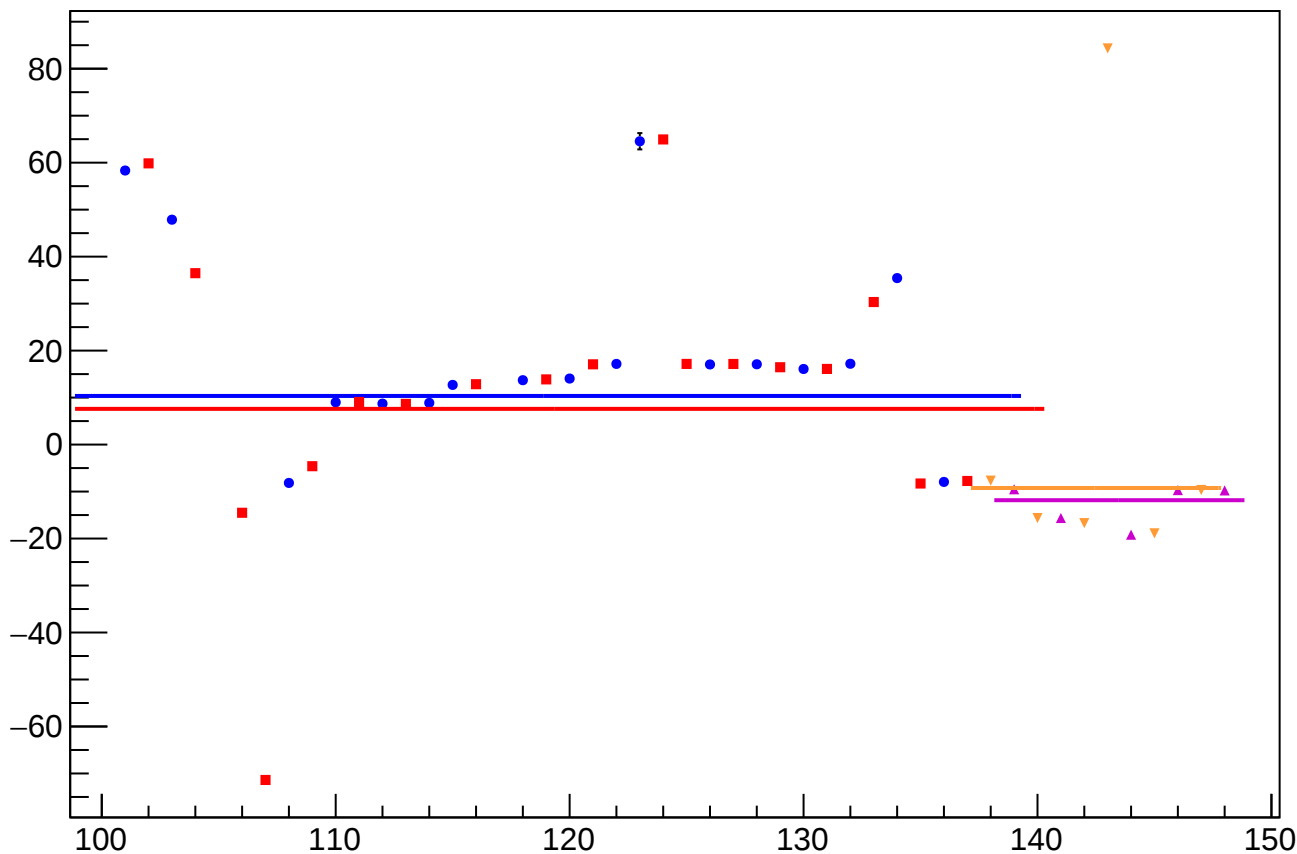
Left In: 6.674 $\pm$ 0.549  $\chi^2$ /NDF:18.4/4

+ sign -4.555 $\pm$ 0.395  $\chi^2$ /NDF: 1501.5/22

All: -3.910 $\pm$ 0.276  $\chi^2$ /NDF: 2898.3/45

- sign -3.301 $\pm$ 0.384  $\chi^2$ /NDF: 1391.6/22

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $10.350 \pm 0.031$   $\chi^2/\text{NDF}: 380878.9/16$

Left Out:  $-9.237 \pm 0.029$   $\chi^2/\text{NDF}: 406998.9/5$

Right Out:  $7.602 \pm 0.031$   $\chi^2/\text{NDF}: 538460.3/17$

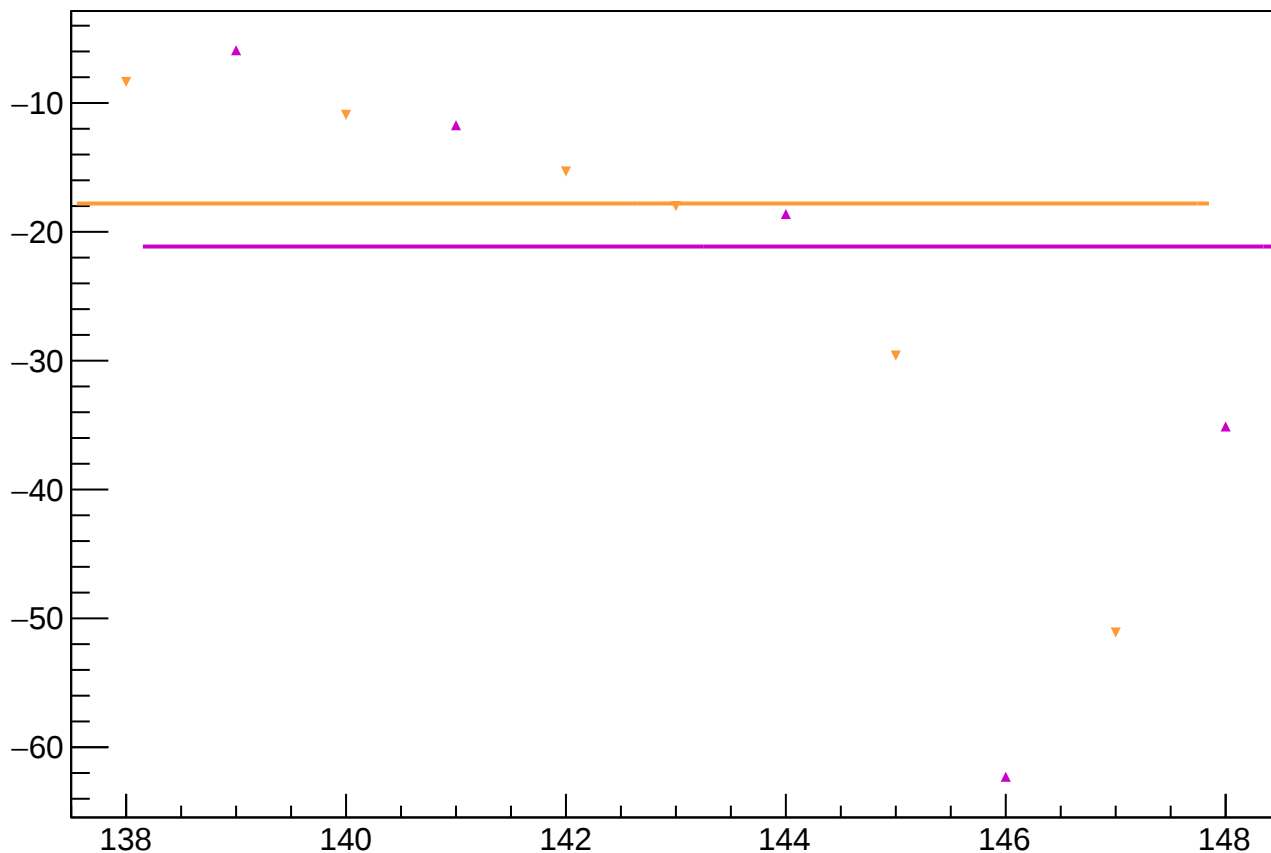
Left In:  $-11.839 \pm 0.027$   $\chi^2/\text{NDF}: 17628.8/4$

+ sign  $0.090 \pm 0.021$   $\chi^2/\text{NDF}: 1002774.7/22$

All:  $-1.831 \pm 0.015$   $\chi^2/\text{NDF}: 1797609.5/45$

- sign  $-3.618 \pm 0.020$   $\chi^2/\text{NDF}: 778836.0/22$

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -17.800+/-0.112  $\chi^2/\text{NDF}$ : 13600.6/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

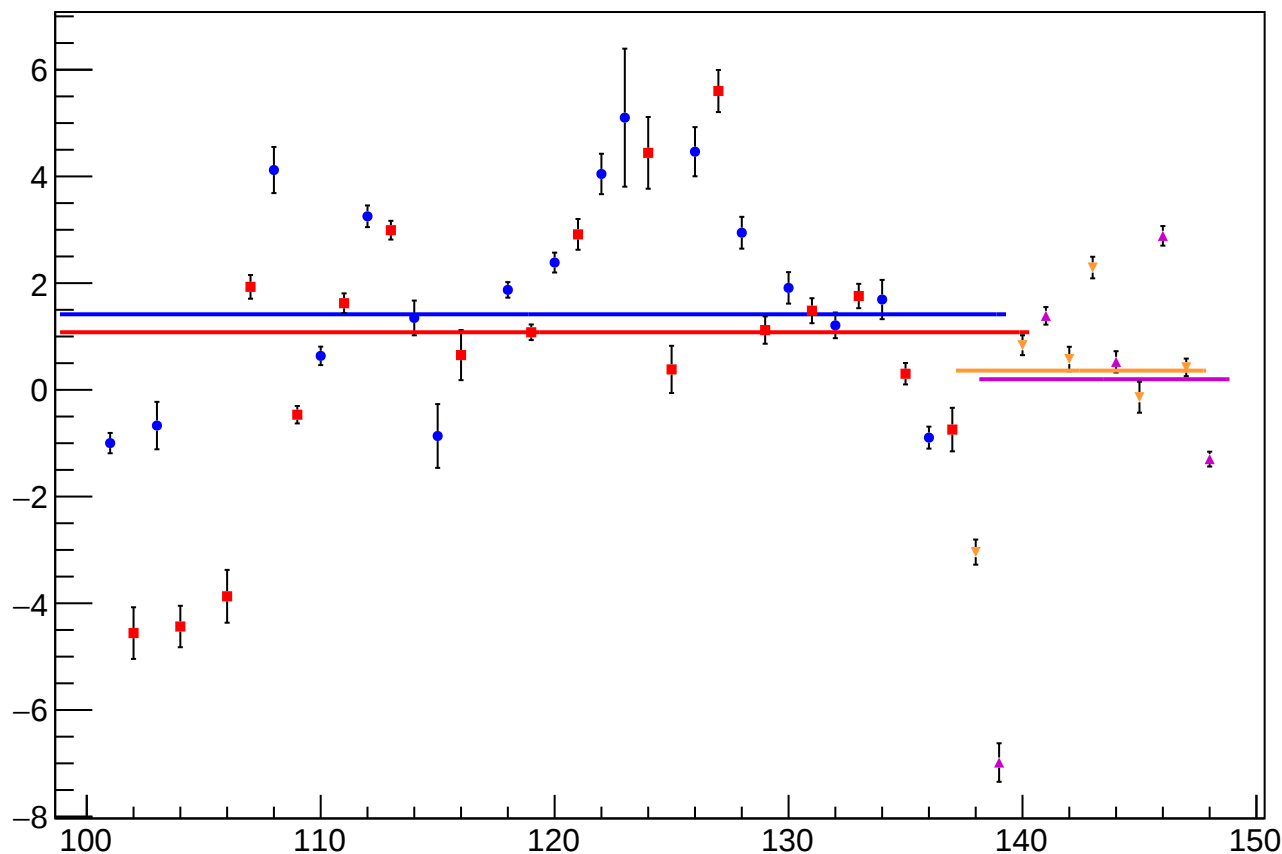
Left In: -21.140+/-0.112  $\chi^2/\text{NDF}$ : 27270.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.471+/-0.079  $\chi^2/\text{NDF}$ : 41315.5/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.416 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 631.2/16

Left Out: 0.361 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 310.6/5

Right Out: 1.080 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 916.1/17

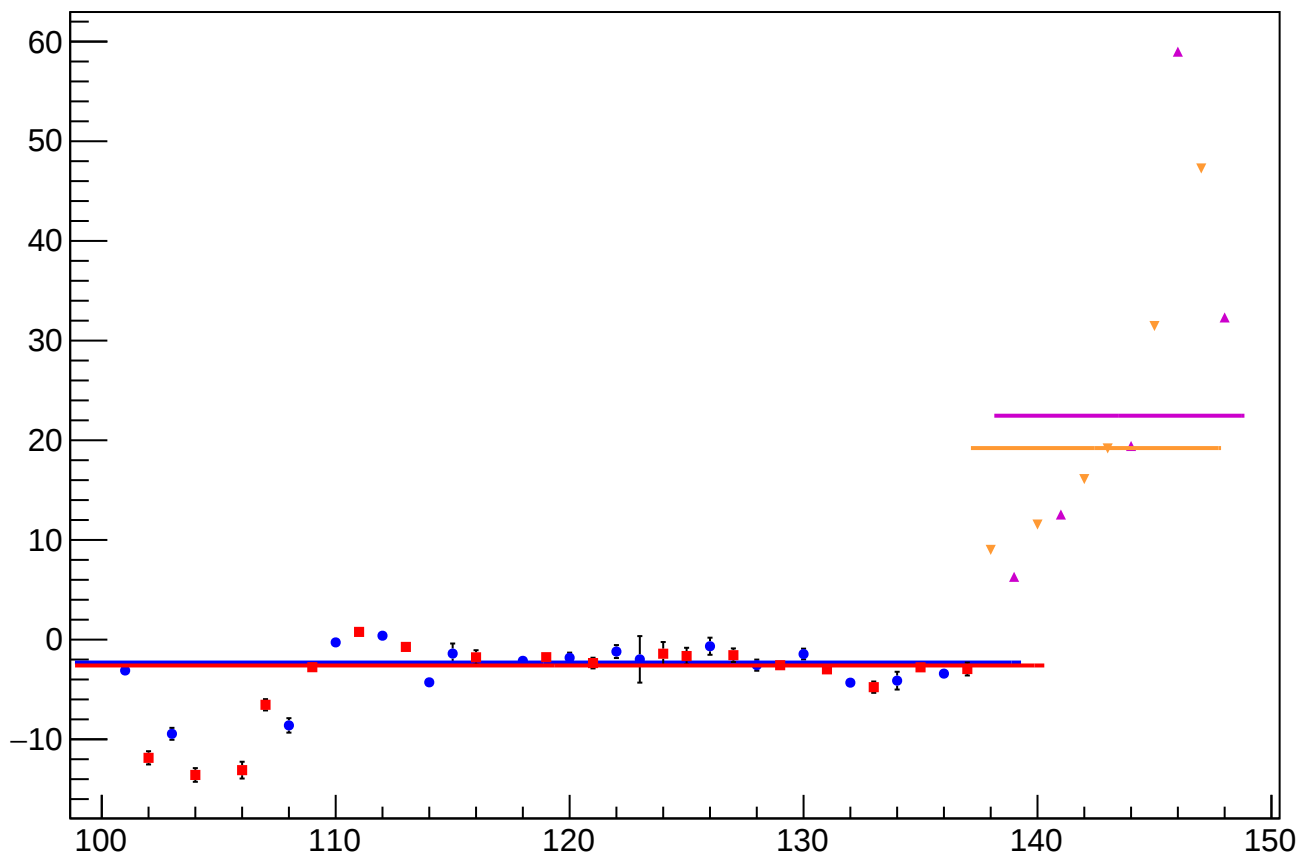
Left In: 0.199 $\pm$ 0.081  $\chi^2/\text{NDF}$ : 779.9/4

+ sign 1.055 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 1043.7/22

All: 0.912 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2832.9/45

- sign 0.782 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 1773.4/22

# 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:  $19.218 \pm 0.118$   $\chi^2/\text{NDF}$ : 11916.2/5

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

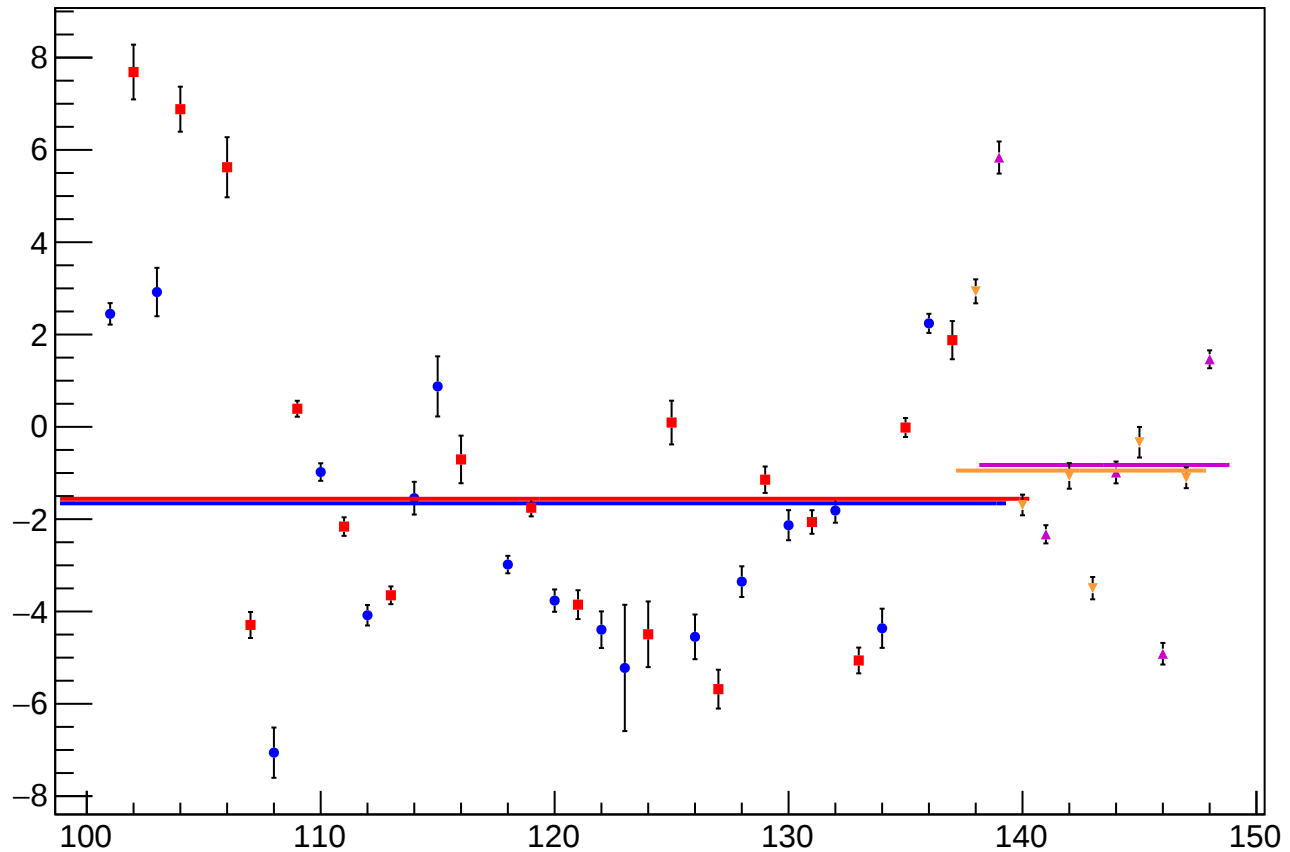
Left In:  $22.465 \pm 0.115$   $\chi^2/\text{NDF}$ : 23603.4/4

+ sign  $7.778 \pm 0.081$   $\chi^2/\text{NDF}$ : 30005.9/22

All:  $7.928 \pm 0.055$   $\chi^2/\text{NDF}$ : 81593.6/45

- sign  $8.059 \pm 0.075$   $\chi^2/\text{NDF}$ : 51581.2/22

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:  $-0.947 \pm 0.103$   $\chi^2/\text{NDF}$ : 349.9/5

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

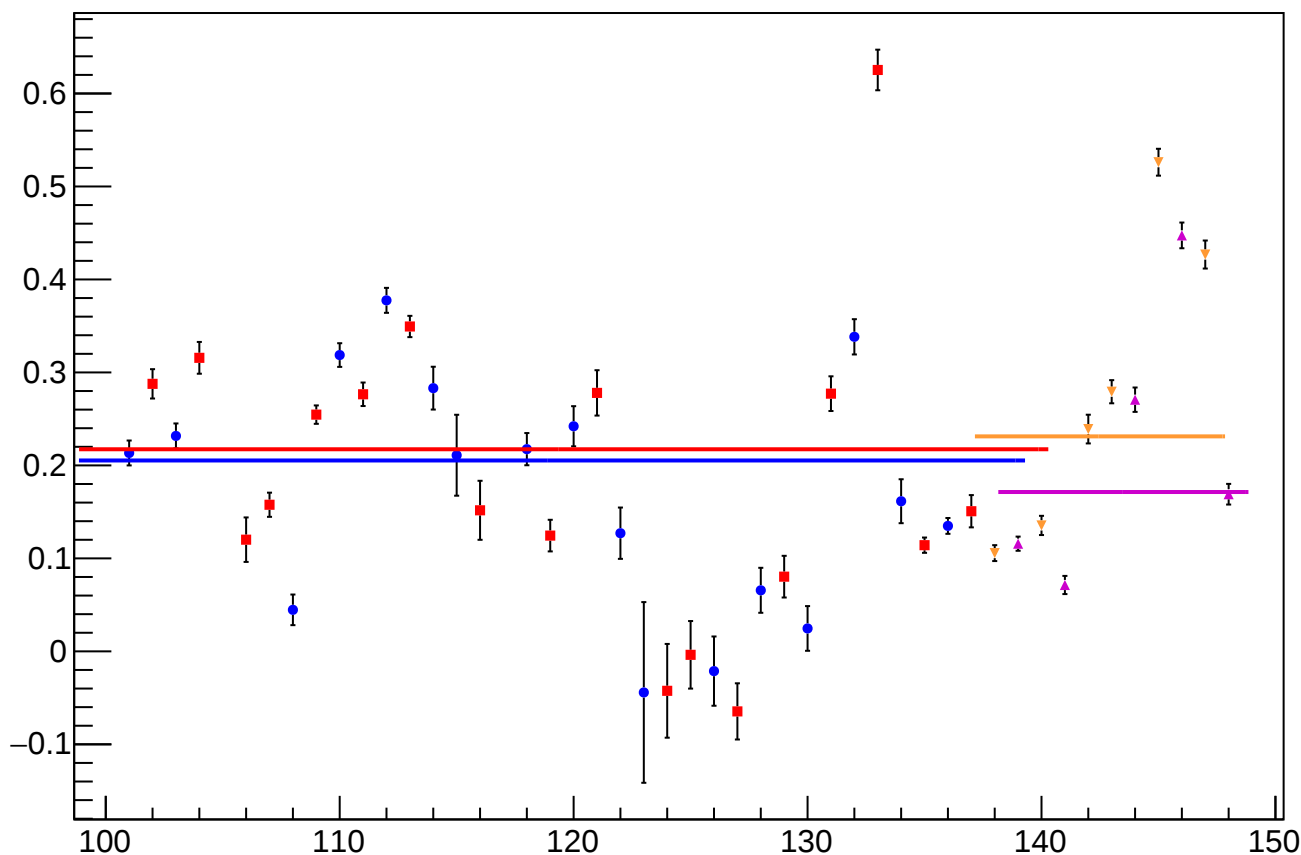
Left In:  $-0.826 \pm 0.102$   $\chi^2/\text{NDF}$ : 869.2/4

+ sign  $-1.431 \pm 0.058$   $\chi^2/\text{NDF}$ : 1653.2/22

All:  $-1.384 \pm 0.040$   $\chi^2/\text{NDF}$ : 4045.0/45

- sign  $-1.342 \pm 0.055$   $\chi^2/\text{NDF}$ : 2390.6/22

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:  $0.231 \pm 0.005$   $\chi^2/\text{NDF}$ : 902.0/5

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

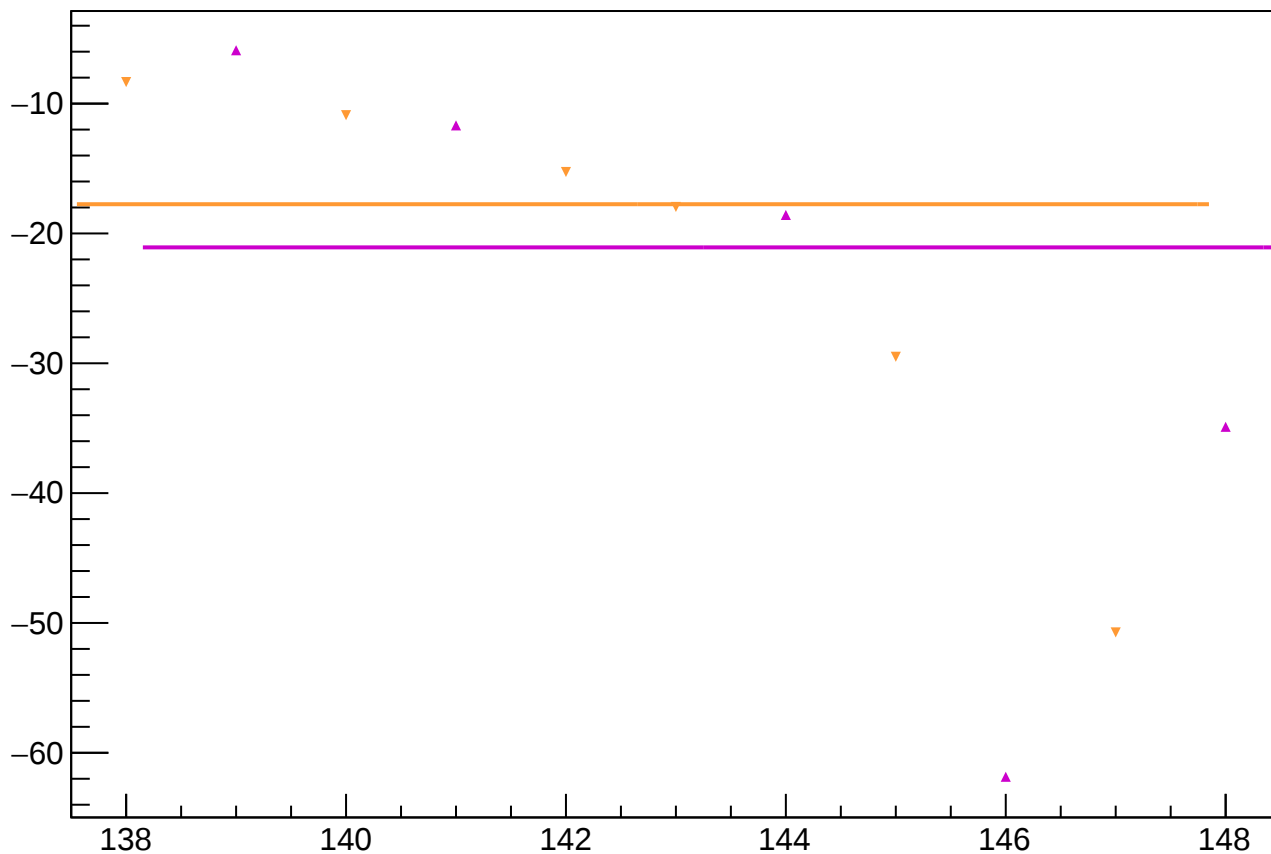
Left In:  $0.171 \pm 0.005$   $\chi^2/\text{NDF}$ : 613.7/4

+ sign  $0.216 \pm 0.003$   $\chi^2/\text{NDF}$ : 1539.1/22

All:  $0.207 \pm 0.002$   $\chi^2/\text{NDF}$ : 3248.2/45

- sign  $0.199 \pm 0.003$   $\chi^2/\text{NDF}$ : 1693.3/22

# 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: -17.749+/-0.111  $\chi^2/\text{NDF}$ : 13576.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

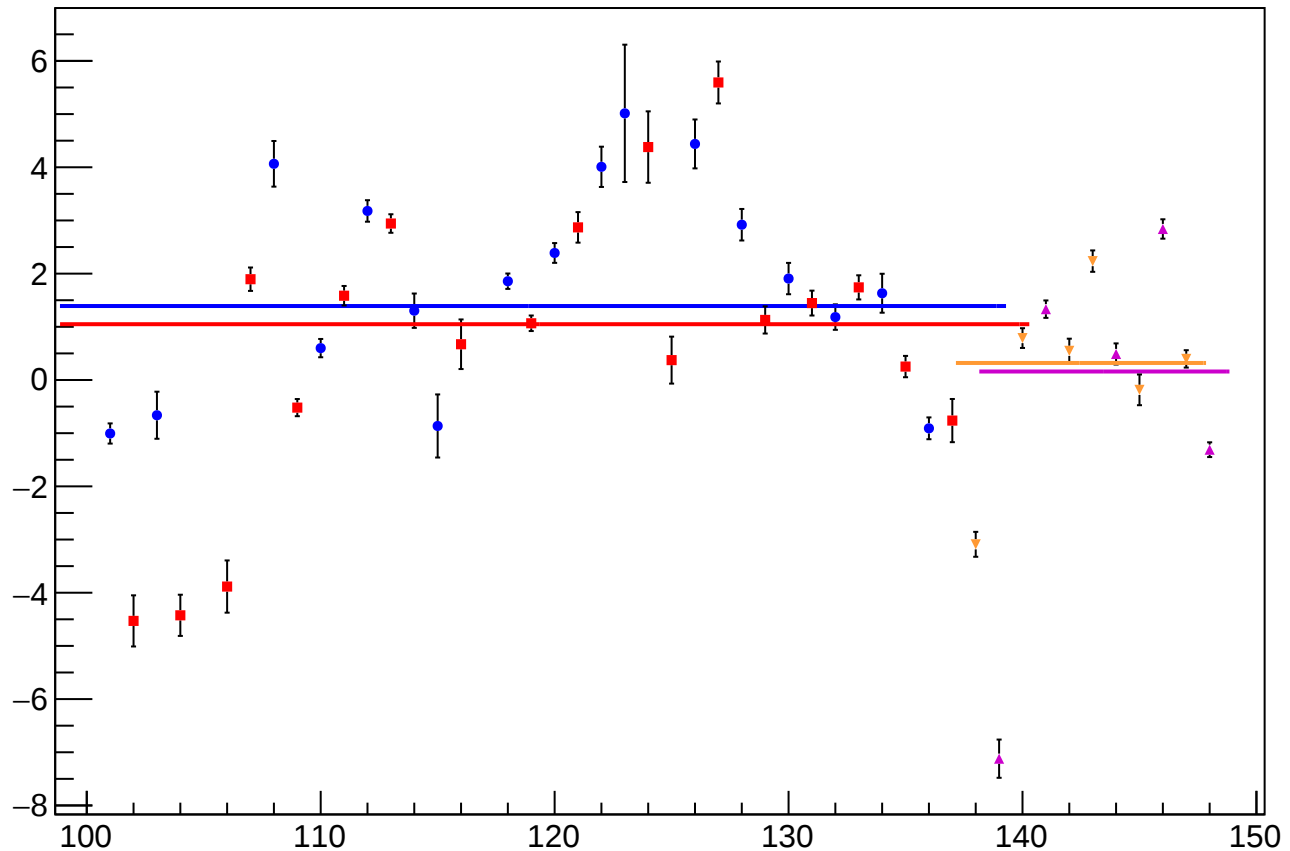
Left In: -21.073+/-0.111  $\chi^2/\text{NDF}$ : 27209.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.413+/-0.079  $\chi^2/\text{NDF}$ : 41230.6/10

- 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: 0.320 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 312.9/5

Right Out: 1.049 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 919.8/17

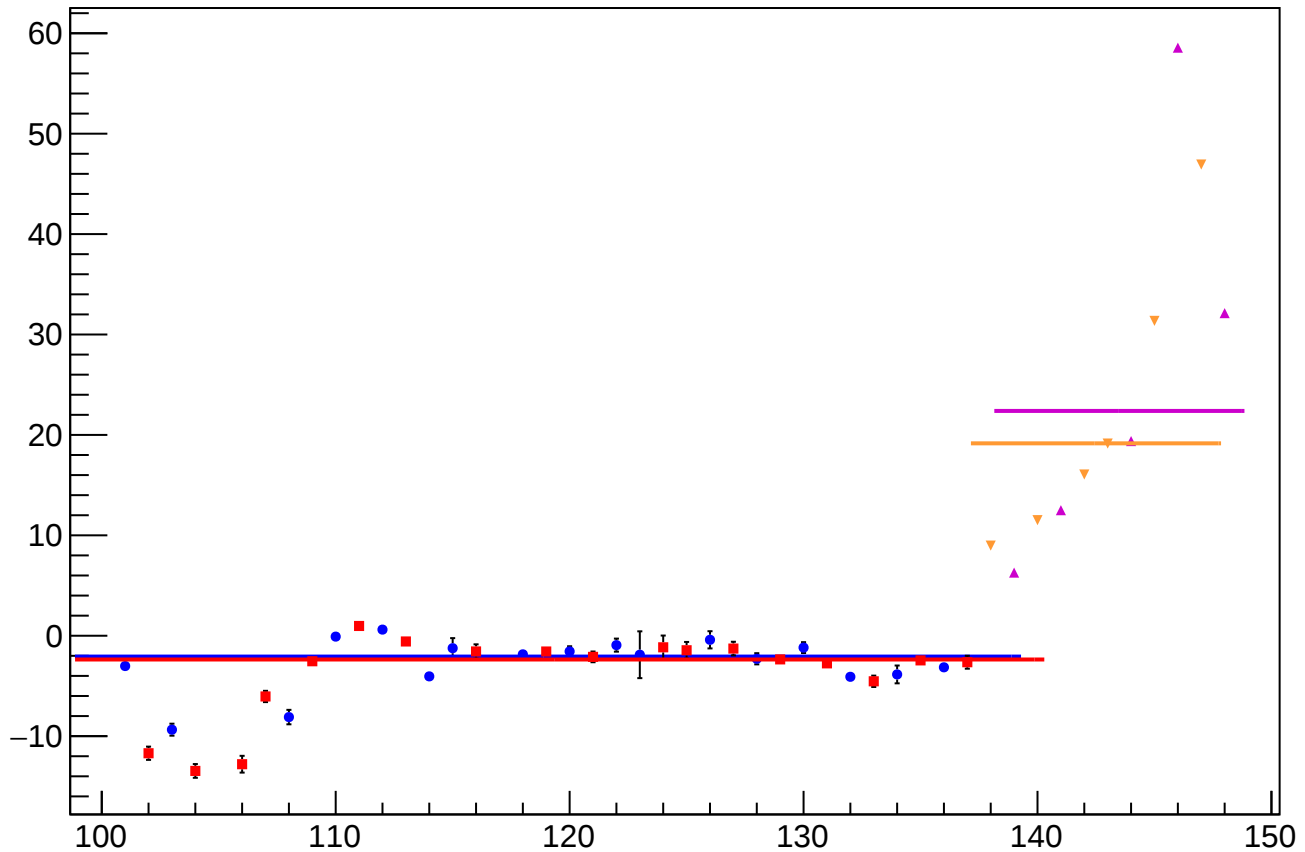
Left In: 0.160 $\pm$ 0.081  $\chi^2/\text{NDF}$ : 792.9/4

+ sign 1.024 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 1048.0/22

All: 0.880 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2856.9/45

- sign 0.748 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 1792.5/22

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:  $19.160 \pm 0.118$   $\chi^2/\text{NDF}: 11888.5/5$

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}: 893.2/17$

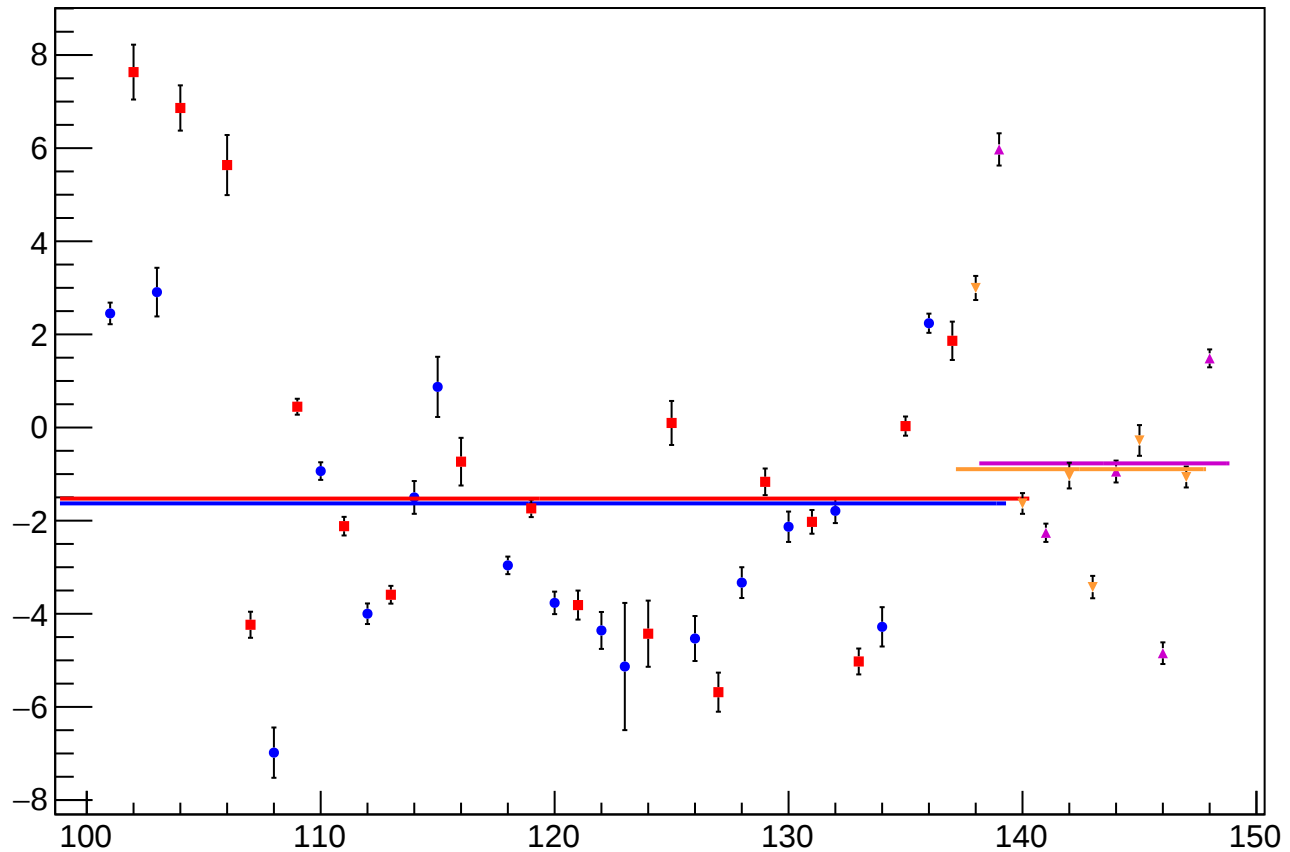
Left In:  $22.389 \pm 0.115$   $\chi^2/\text{NDF}: 23537.8/4$

+ sign  $7.870 \pm 0.080$   $\chi^2/\text{NDF}: 29694.3/22$

All:  $8.024 \pm 0.055$   $\chi^2/\text{NDF}: 80854.2/45$

- sign  $8.159 \pm 0.075$   $\chi^2/\text{NDF}: 51153.0/22$

# 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:  $-0.894 \pm 0.103$   $\chi^2/\text{NDF}$ : 352.6/5

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

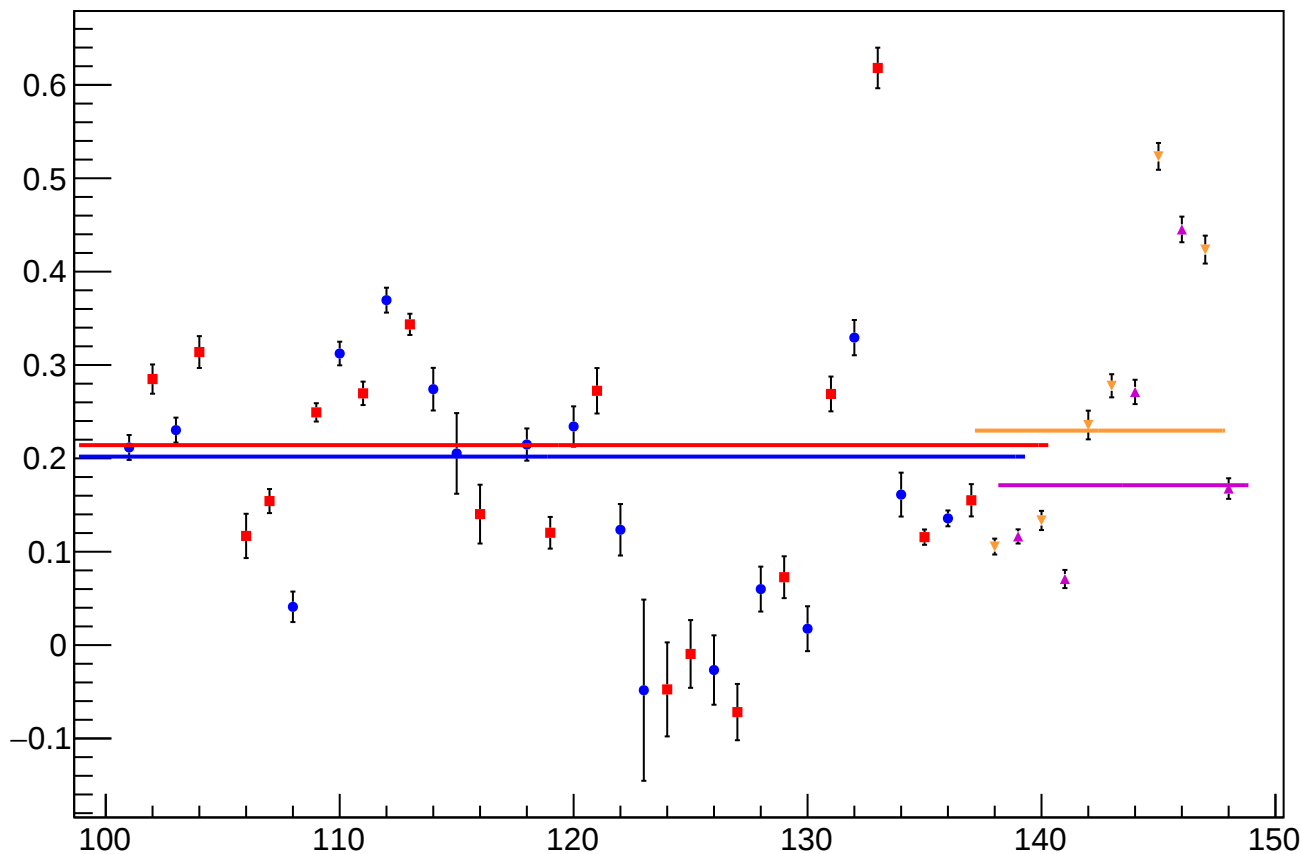
Left In:  $-0.770 \pm 0.101$   $\chi^2/\text{NDF}$ : 881.8/4

+ sign  $-1.396 \pm 0.058$   $\chi^2/\text{NDF}$ : 1653.8/22

All:  $-1.347 \pm 0.040$   $\chi^2/\text{NDF}$ : 4064.6/45

- sign  $-1.303 \pm 0.055$   $\chi^2/\text{NDF}$ : 2409.4/22

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:  $0.230 \pm 0.005$   $\chi^2/\text{NDF}$ : 901.1/5

Right Out:  $0.214 \pm 0.003$   $\chi^2/\text{NDF}$ : 1001.6/17

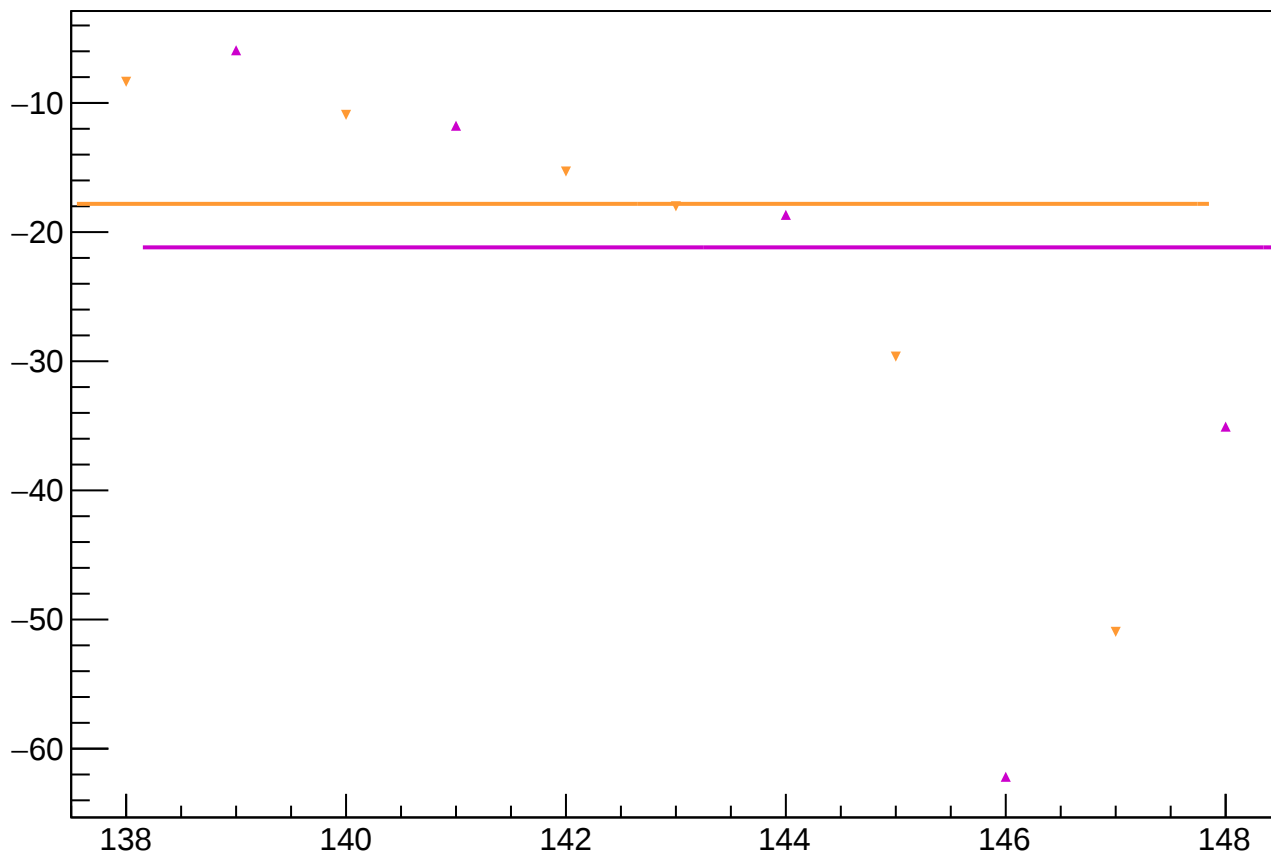
Left In:  $0.171 \pm 0.005$   $\chi^2/\text{NDF}$ : 616.0/4

+ sign  $0.214 \pm 0.003$   $\chi^2/\text{NDF}$ : 1525.1/22

All:  $0.205 \pm 0.002$   $\chi^2/\text{NDF}$ : 3210.4/45

- sign  $0.197 \pm 0.003$   $\chi^2/\text{NDF}$ : 1670.6/22

# 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: -17.813+/-0.112  $\chi^2/\text{NDF}$ : 13582.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

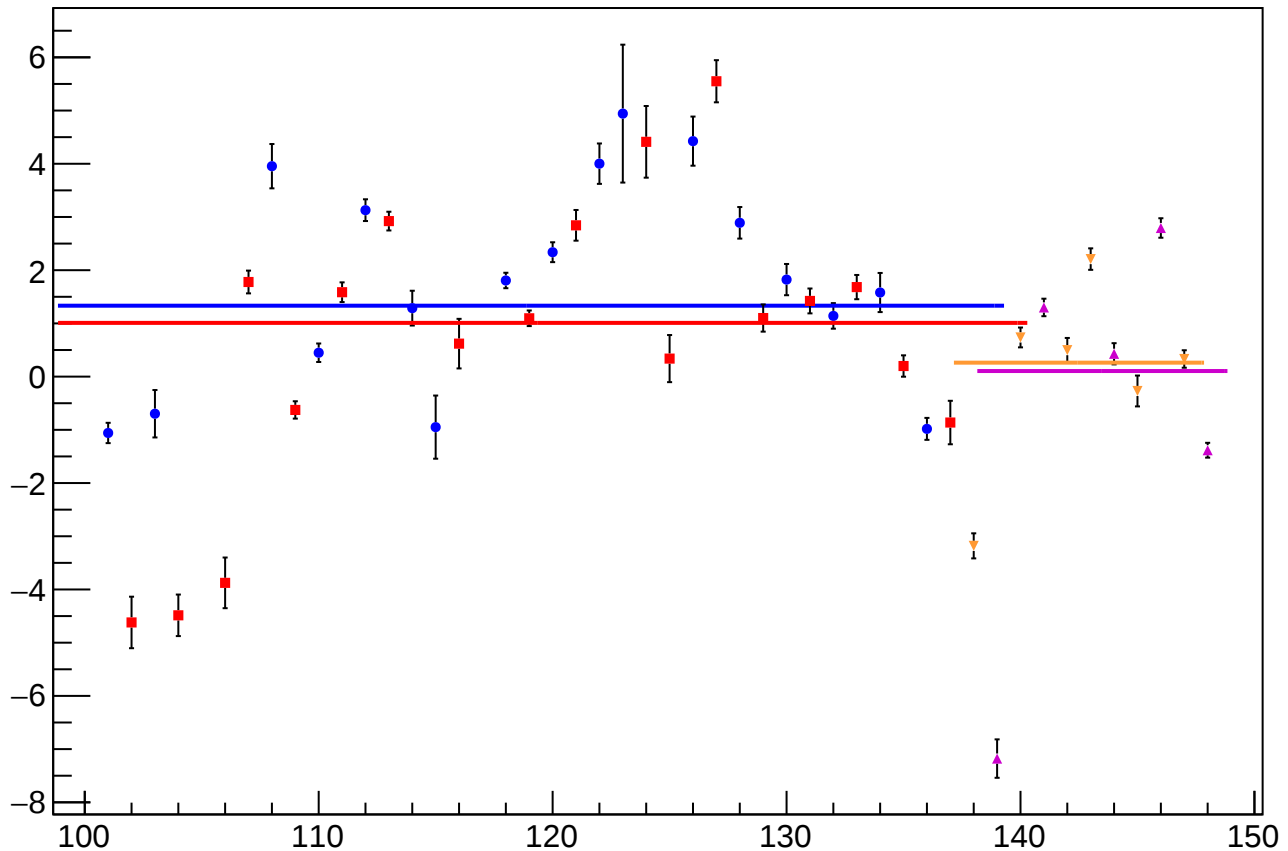
Left In: -21.182+/-0.112  $\chi^2/\text{NDF}$ : 27239.3/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.499+/-0.079  $\chi^2/\text{NDF}$ : 41274.3/10

- 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:  $0.263 \pm 0.085$   $\chi^2/\text{NDF}$ : 317.6/5

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}$ : 930.3/17

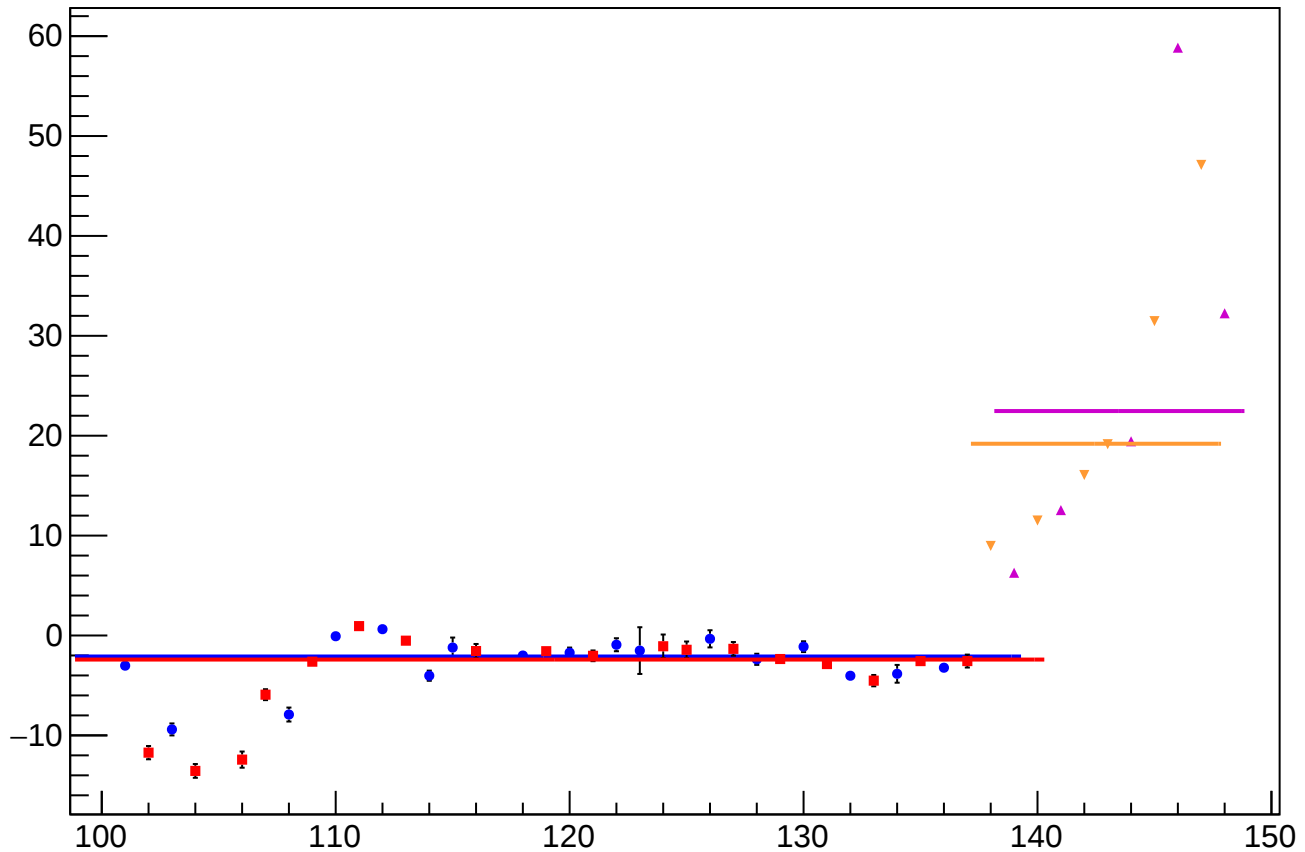
Left In:  $0.105 \pm 0.081$   $\chi^2/\text{NDF}$ : 791.9/4

+ sign  $0.966 \pm 0.050$   $\chi^2/\text{NDF}$ : 1057.1/22

All:  $0.829 \pm 0.034$   $\chi^2/\text{NDF}$ : 2875.8/45

- sign  $0.704 \pm 0.047$   $\chi^2/\text{NDF}$ : 1804.1/22

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:  $19.195 \pm 0.118$   $\chi^2/\text{NDF}$ : 11896.2/5

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

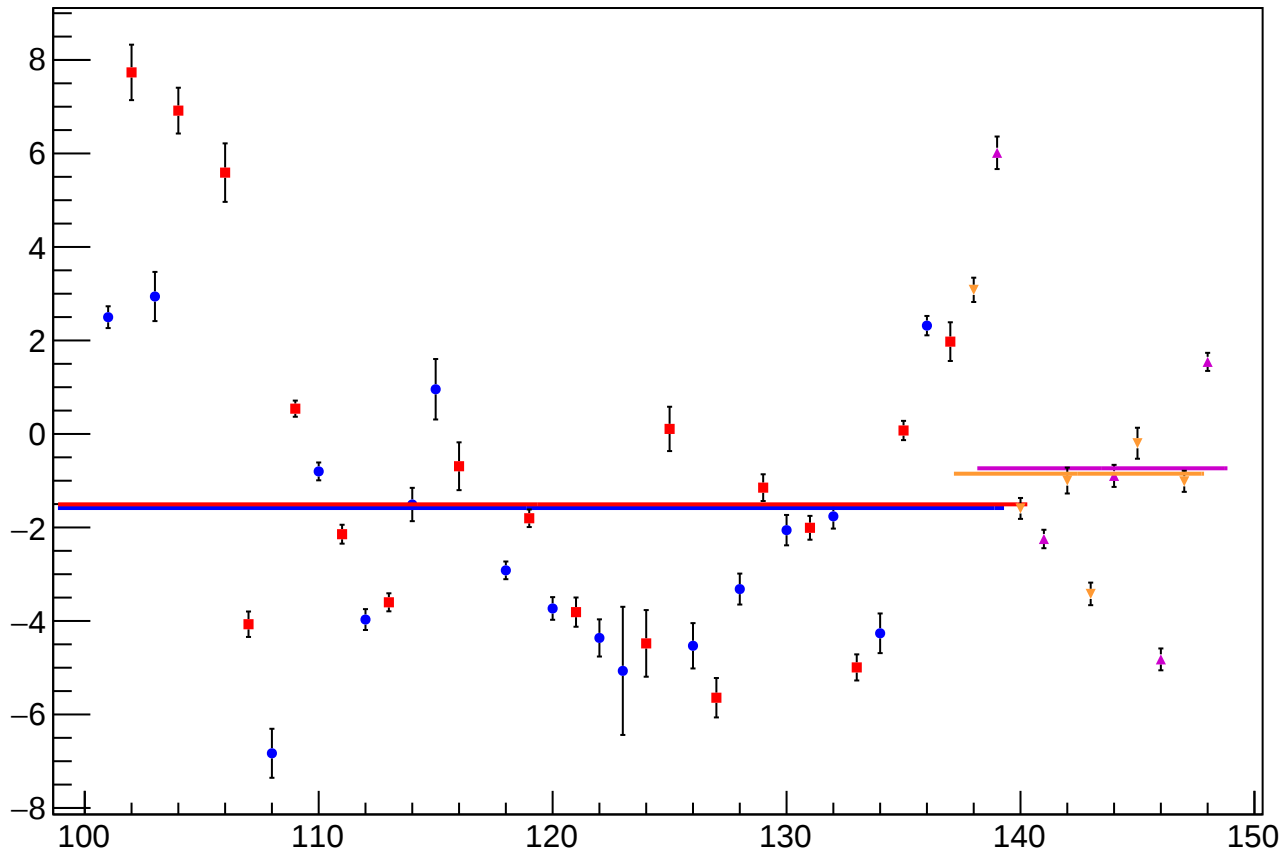
Left In:  $22.468 \pm 0.115$   $\chi^2/\text{NDF}$ : 23570.4/4

+ sign  $7.879 \pm 0.081$   $\chi^2/\text{NDF}$ : 29632.7/22

All:  $8.036 \pm 0.055$   $\chi^2/\text{NDF}$ : 80833.1/45

- sign  $8.172 \pm 0.075$   $\chi^2/\text{NDF}$ : 51193.3/22

# 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:  $-0.850 \pm 0.103$   $\chi^2/\text{NDF}: 358.2/5$

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}: 1499.8/17$

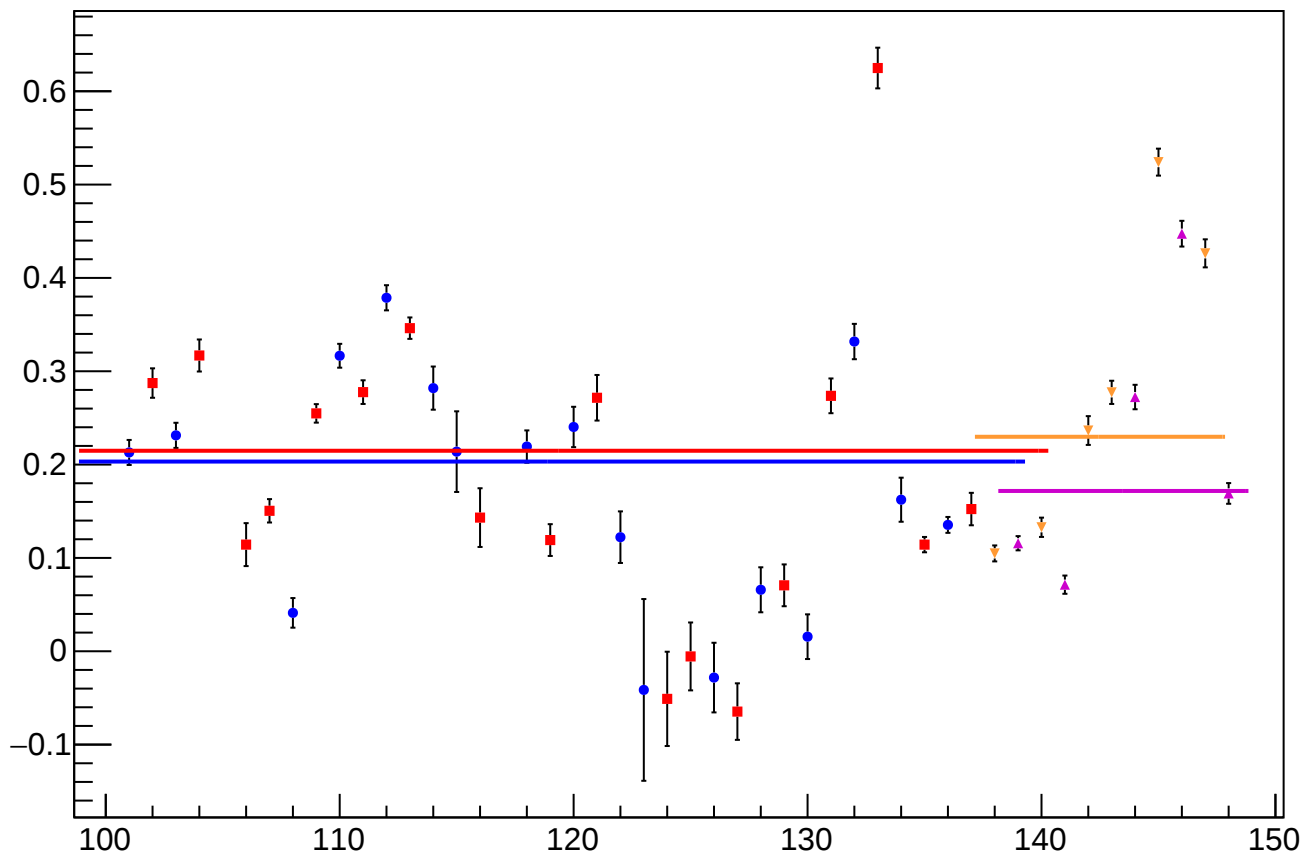
Left In:  $-0.734 \pm 0.102$   $\chi^2/\text{NDF}: 880.1/4$

+ sign  $-1.351 \pm 0.058$   $\chi^2/\text{NDF}: 1664.9/22$

All:  $-1.313 \pm 0.040$   $\chi^2/\text{NDF}: 4086.4/45$

- sign  $-1.278 \pm 0.055$   $\chi^2/\text{NDF}: 2420.7/22$

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:  $0.230 \pm 0.005$   $\chi^2/\text{NDF}$ : 902.4/5

Right Out:  $0.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 1033.0/17

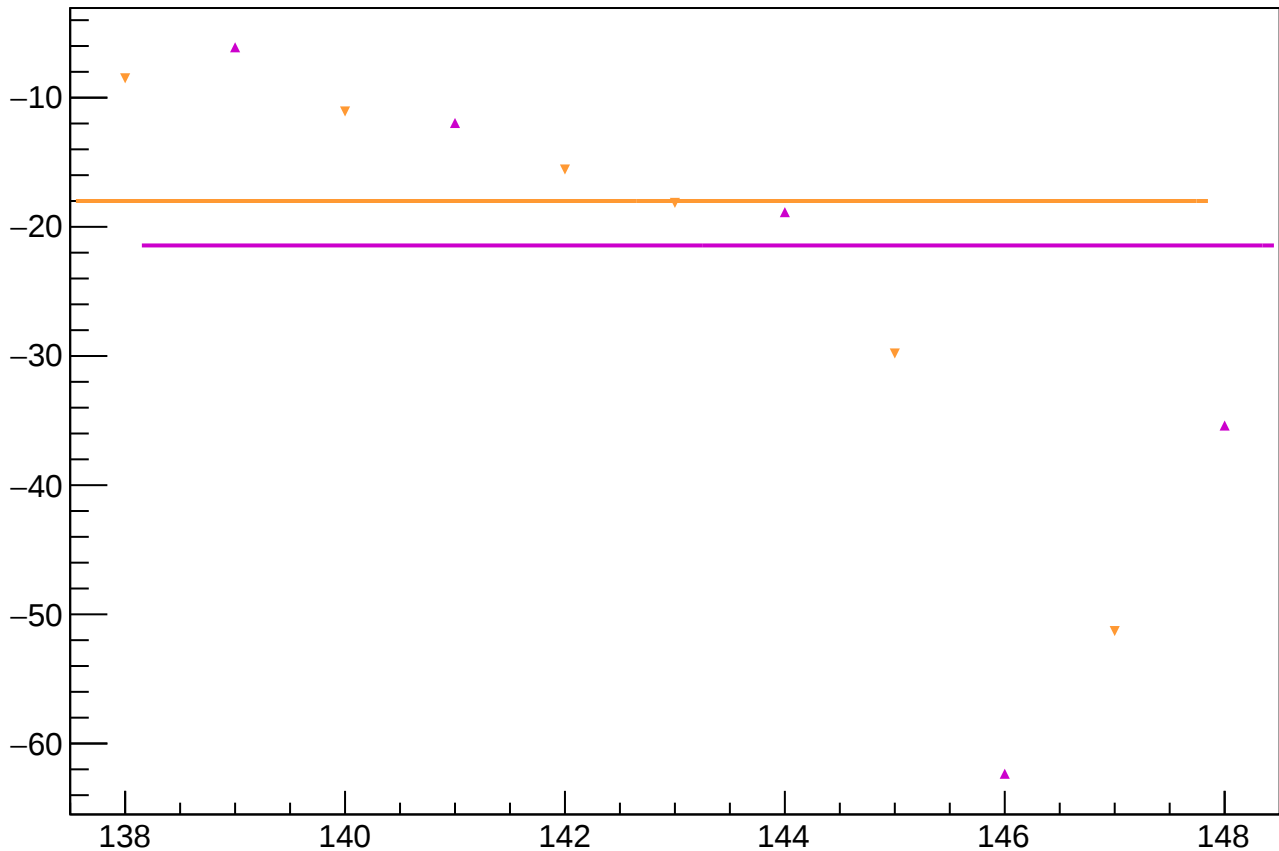
Left In:  $0.172 \pm 0.005$   $\chi^2/\text{NDF}$ : 618.2/4

+ sign  $0.214 \pm 0.003$   $\chi^2/\text{NDF}$ : 1552.6/22

All:  $0.206 \pm 0.002$   $\chi^2/\text{NDF}$ : 3271.8/45

- sign  $0.198 \pm 0.003$   $\chi^2/\text{NDF}$ : 1704.2/22

# 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: -18.000+/-0.113  $\chi^2/\text{NDF}$ : 13466.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

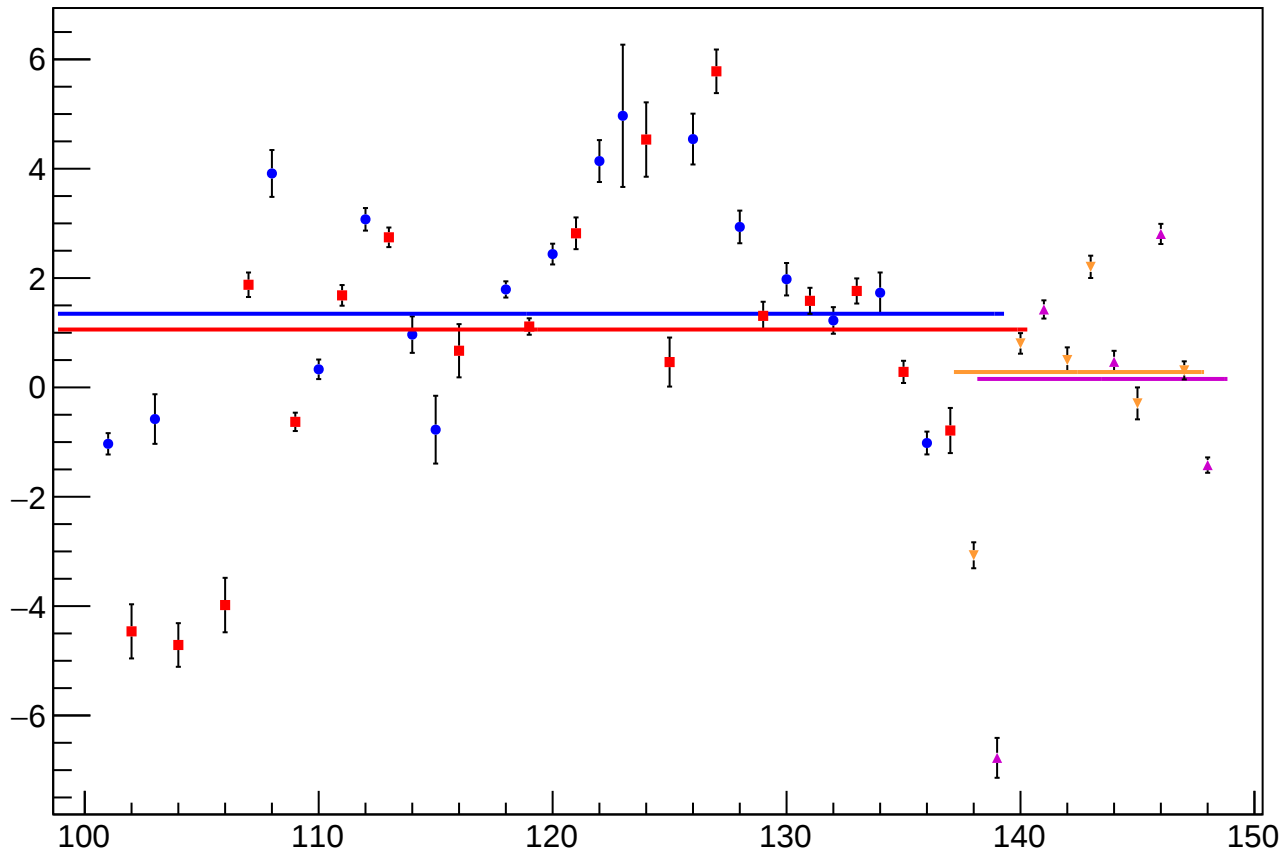
Left In: -21.441+/-0.113  $\chi^2/\text{NDF}$ : 26851.8/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.721+/-0.080  $\chi^2/\text{NDF}$ : 40781.7/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.347 \pm 0.062$   $\chi^2/\text{NDF}: 630.1/16$

Left Out:  $0.282 \pm 0.085$   $\chi^2/\text{NDF}: 300.6/5$

Right Out:  $1.059 \pm 0.059$   $\chi^2/\text{NDF}: 905.3/17$

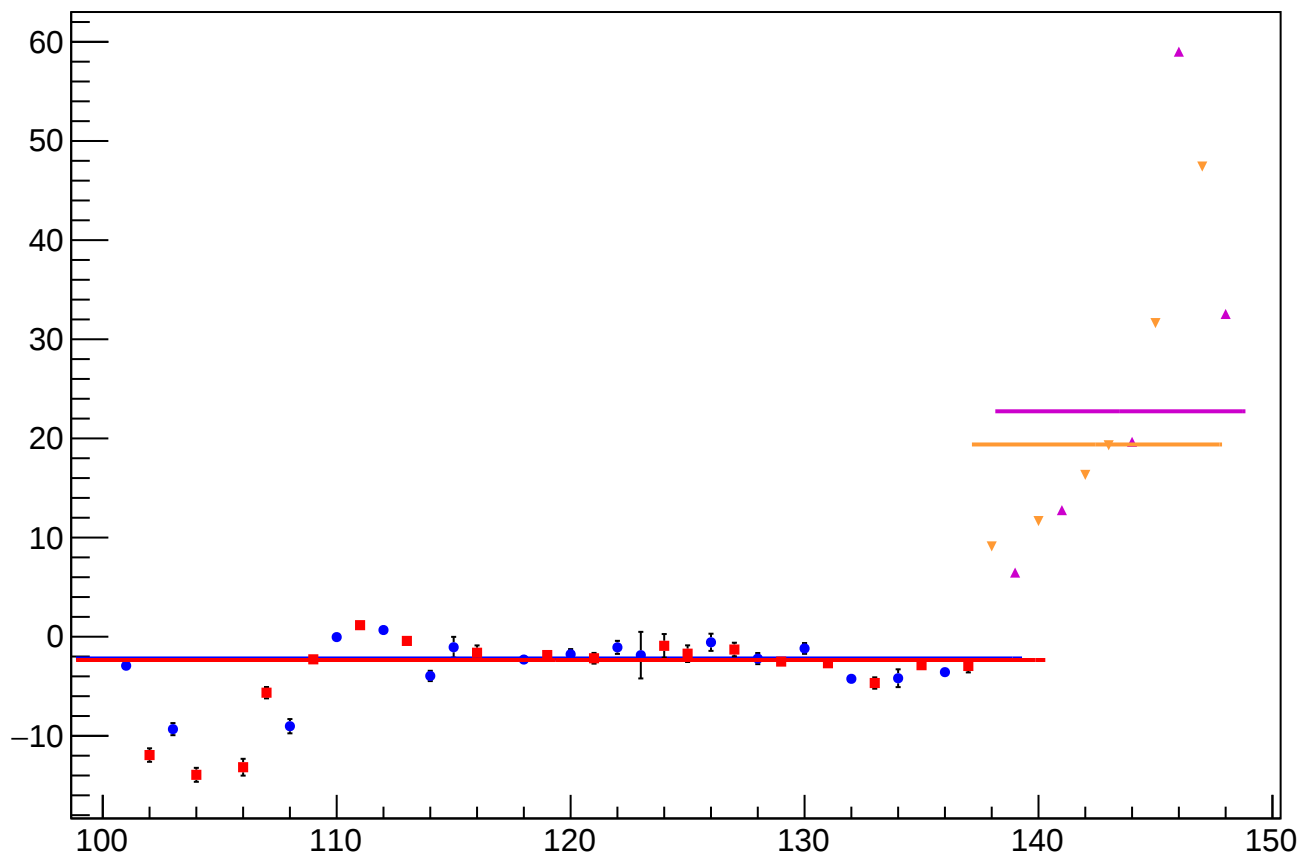
Left In:  $0.155 \pm 0.082$   $\chi^2/\text{NDF}: 753.9/4$

+ sign  $0.978 \pm 0.050$   $\chi^2/\text{NDF}: 1032.2/22$

All:  $0.858 \pm 0.035$   $\chi^2/\text{NDF}: 2781.8/45$

- sign  $0.749 \pm 0.048$   $\chi^2/\text{NDF}: 1738.8/22$

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:  $19.390 \pm 0.119$   $\chi^2/\text{NDF}: 11787.4/5$

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$

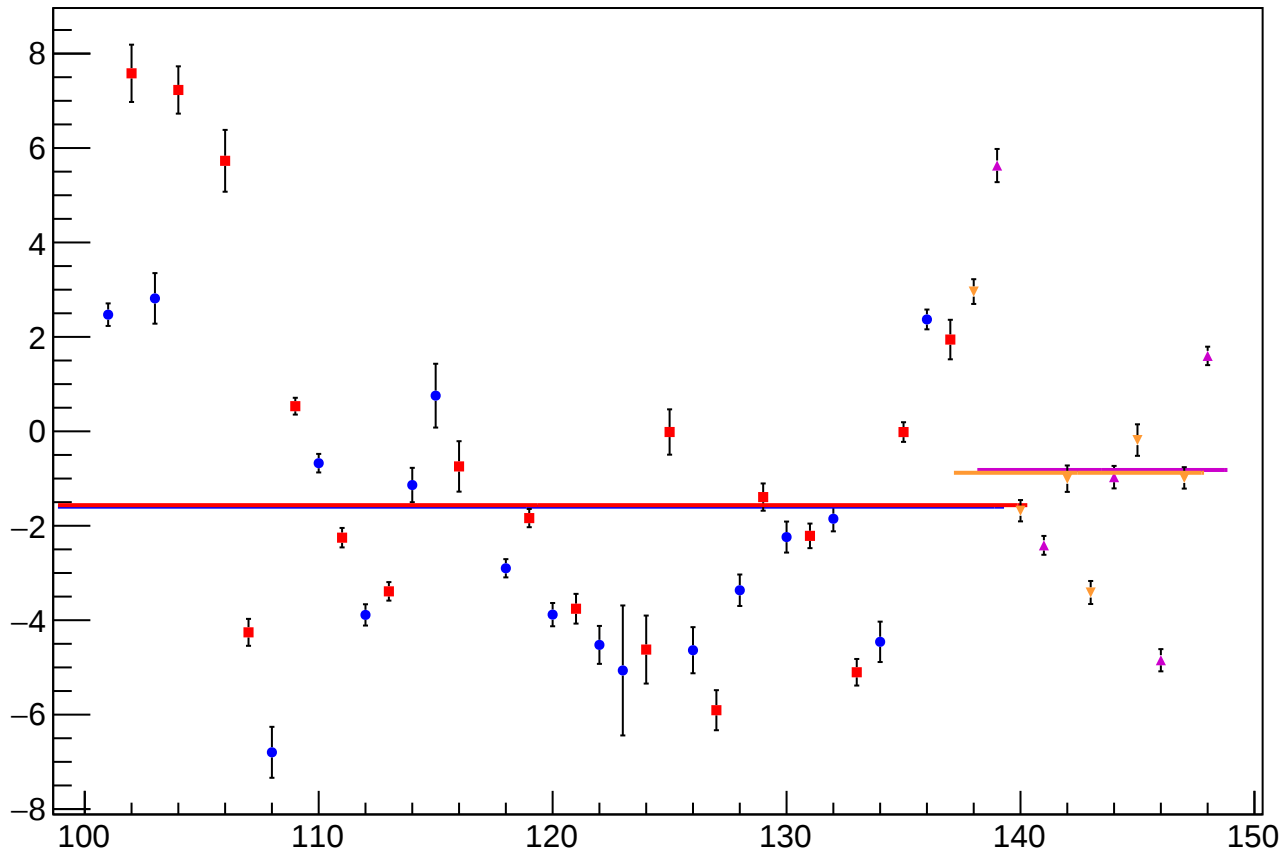
Left In:  $22.736 \pm 0.116$   $\chi^2/\text{NDF}: 23209.0/4$

+ sign  $8.015 \pm 0.082$   $\chi^2/\text{NDF}: 29552.8/22$

All:  $8.252 \pm 0.056$   $\chi^2/\text{NDF}: 80086.1/45$

- sign  $8.458 \pm 0.076$   $\chi^2/\text{NDF}: 50517.6/22$

# 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:  $-0.878 \pm 0.104$   $\chi^2/\text{NDF}$ : 339.9/5

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

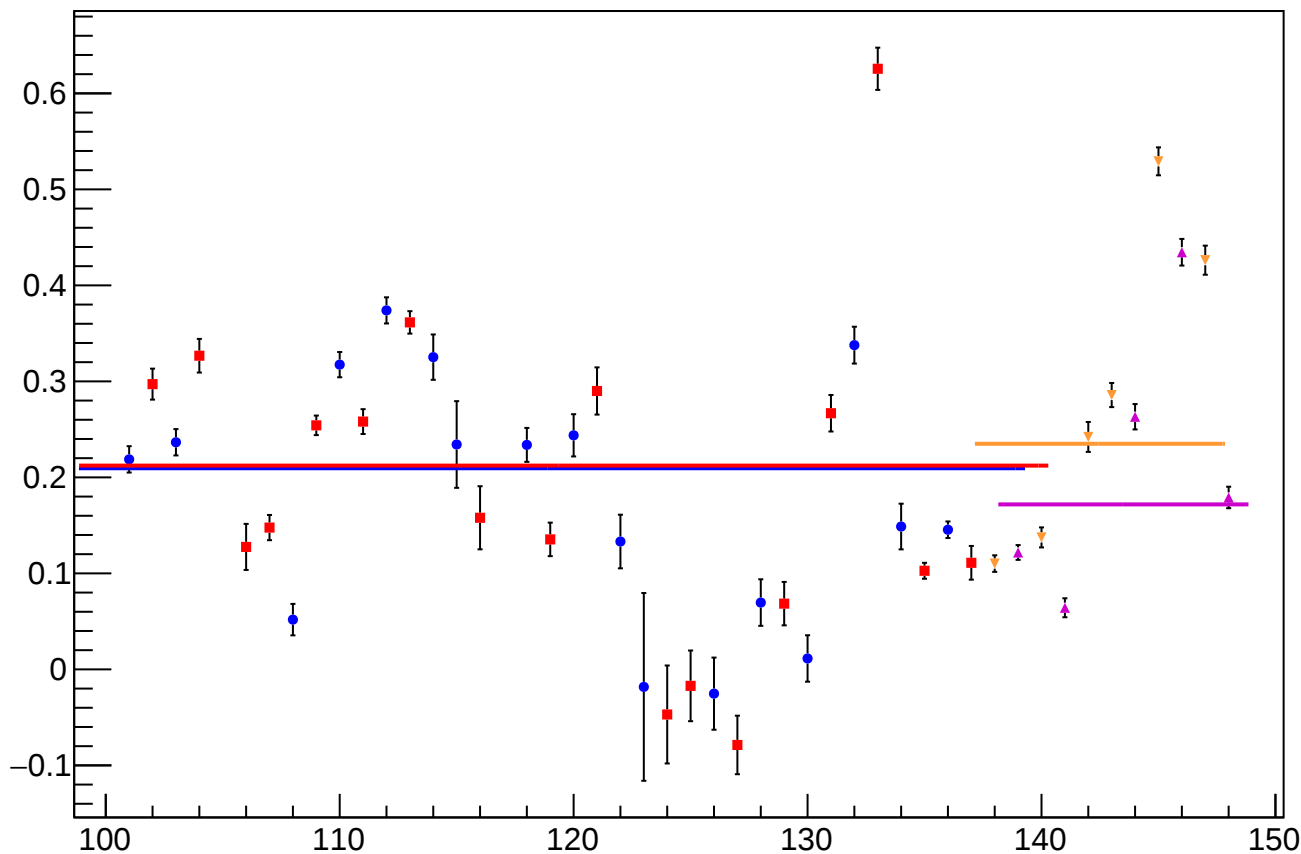
Left In:  $-0.818 \pm 0.103$   $\chi^2/\text{NDF}$ : 847.3/4

+ sign  $-1.365 \pm 0.059$   $\chi^2/\text{NDF}$ : 1627.5/22

All:  $-1.352 \pm 0.041$   $\chi^2/\text{NDF}$ : 3973.8/45

- sign  $-1.341 \pm 0.056$   $\chi^2/\text{NDF}$ : 2346.2/22

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.210 +/- 0.004  $\chi^2/\text{NDF}$ : 597.7/16

Left Out: 0.235 +/- 0.005  $\chi^2/\text{NDF}$ : 881.8/5

Right Out: 0.212 +/- 0.004  $\chi^2/\text{NDF}$ : 1096.9/17

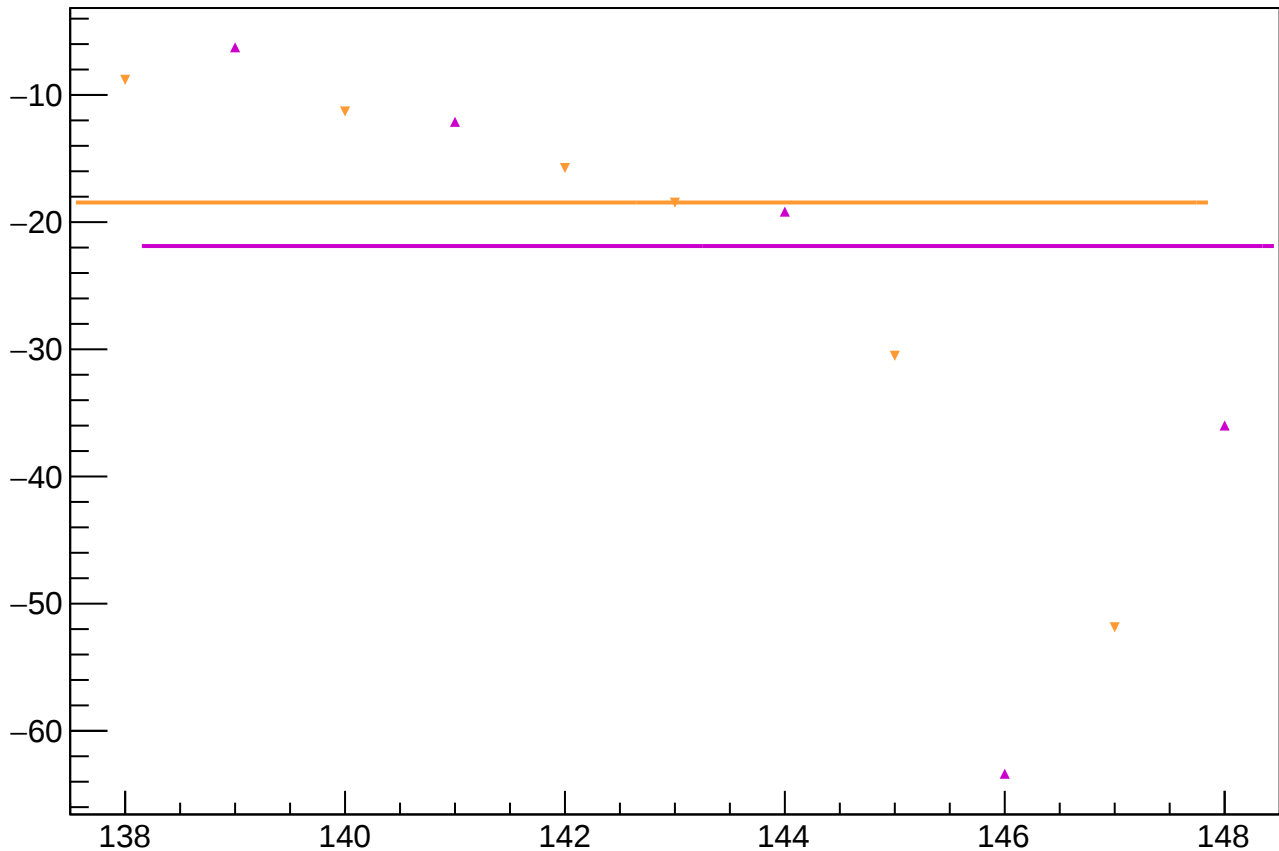
Left In: 0.172 +/- 0.005  $\chi^2/\text{NDF}$ : 567.2/4

+ sign 0.220 +/- 0.003  $\chi^2/\text{NDF}$ : 1495.2/22

All: 0.207 +/- 0.002  $\chi^2/\text{NDF}$ : 3235.7/45

- sign 0.196 +/- 0.003  $\chi^2/\text{NDF}$ : 1709.4/22

# 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: -18.456+/-0.115  $\chi^2/\text{NDF}$ :13269.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

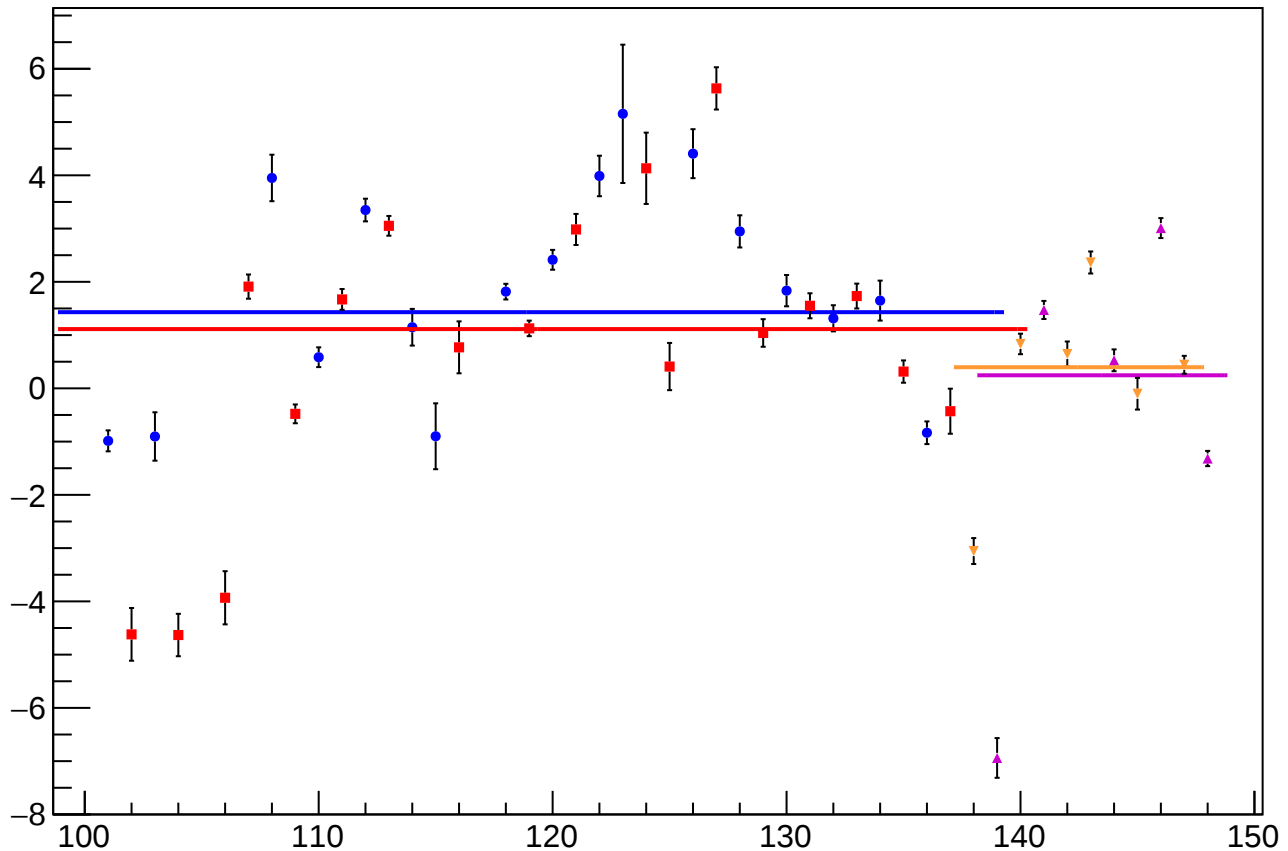
Left In: -21.879+/-0.115  $\chi^2/\text{NDF}$ :26775.1/4

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.170+/-0.081  $\chi^2/\text{NDF}$ : 40486.0/10

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.430 \pm 0.063$   $\chi^2/\text{NDF}: 598.0/16$

Left Out:  $0.397 \pm 0.087$   $\chi^2/\text{NDF}: 300.4/5$

Right Out:  $1.113 \pm 0.060$   $\chi^2/\text{NDF}: 887.6/17$

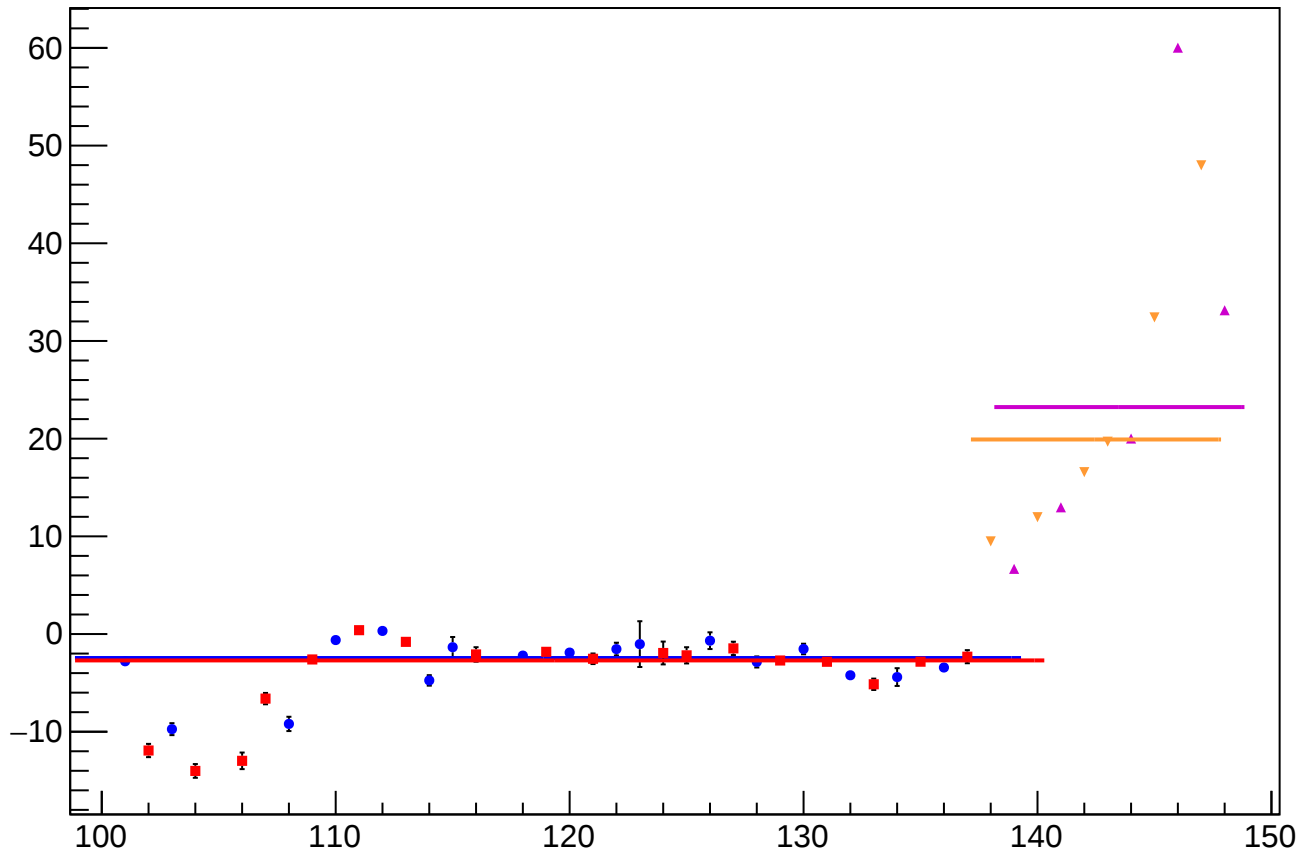
Left In:  $0.245 \pm 0.084$   $\chi^2/\text{NDF}: 762.3/4$

+ sign  $1.076 \pm 0.051$   $\chi^2/\text{NDF}: 991.2/22$

All:  $0.941 \pm 0.035$   $\chi^2/\text{NDF}: 2725.7/45$

- sign  $0.817 \pm 0.049$   $\chi^2/\text{NDF}: 1721.0/22$

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.456 \pm 0.115$   $\chi^2/\text{NDF}$ : 419.1/16

Left Out:  $19.916 \pm 0.122$   $\chi^2/\text{NDF}$ : 11587.5/5

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

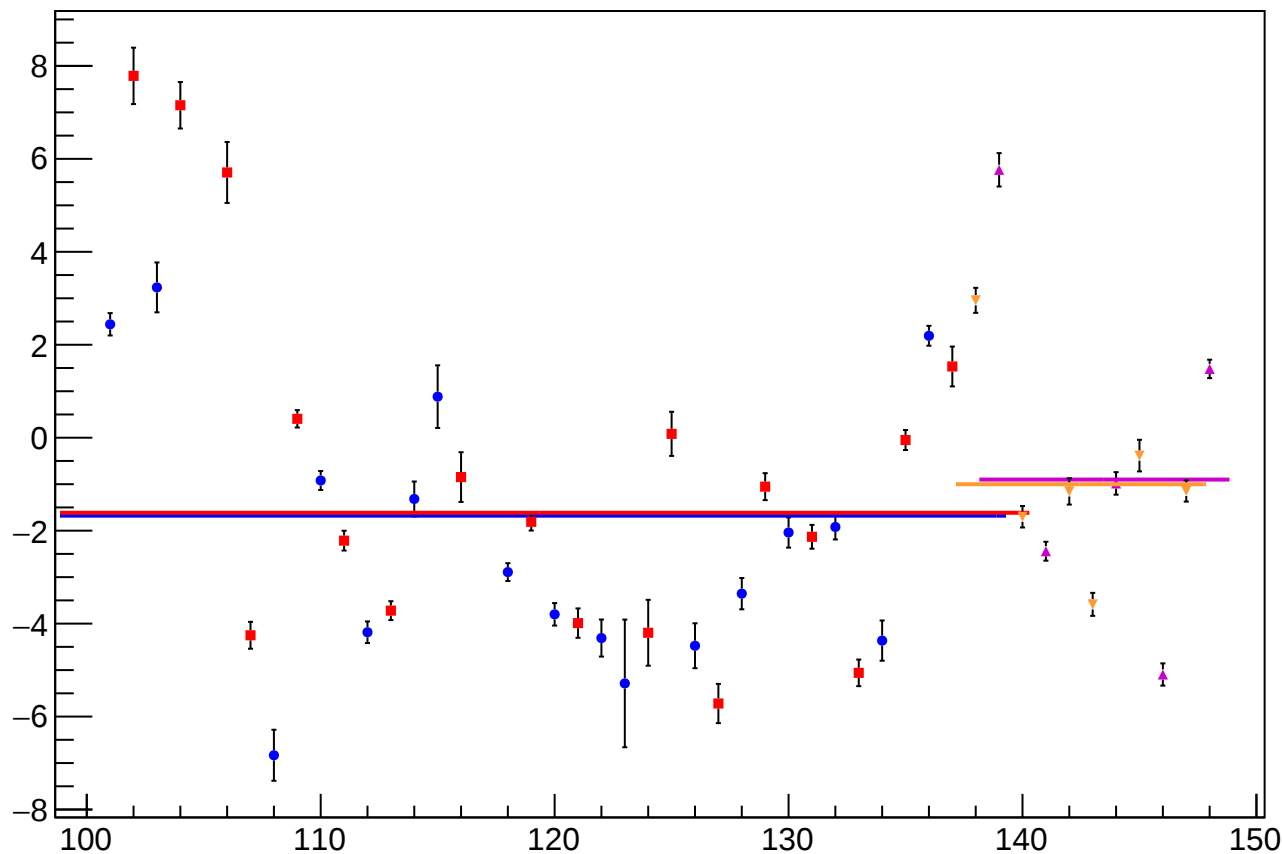
Left In:  $23.233 \pm 0.119$   $\chi^2/\text{NDF}$ : 23123.5/4

+ sign  $8.070 \pm 0.083$   $\chi^2/\text{NDF}$ : 29949.4/22

All:  $8.303 \pm 0.057$   $\chi^2/\text{NDF}$ : 81014.9/45

- sign  $8.507 \pm 0.078$   $\chi^2/\text{NDF}$ : 51050.8/22

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.677 \pm 0.072$   $\chi^2/\text{NDF}$ : 1204.7/16

Left Out:  $-1.001 \pm 0.106$   $\chi^2/\text{NDF}$ : 338.9/5

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}$ : 1427.3/17

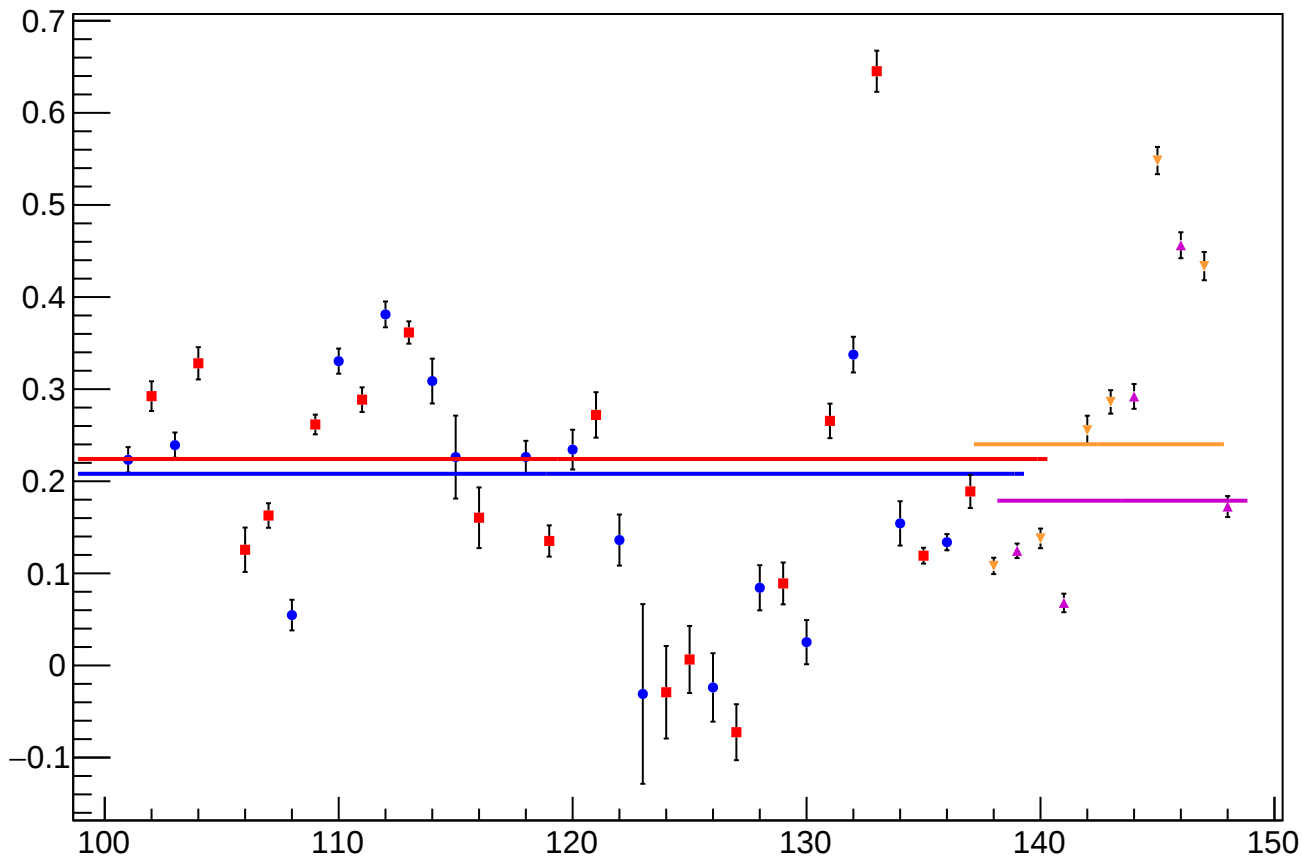
Left In:  $-0.901 \pm 0.104$   $\chi^2/\text{NDF}$ : 853.2/4

+ sign  $-1.462 \pm 0.060$   $\chi^2/\text{NDF}$ : 1571.3/22

All:  $-1.430 \pm 0.041$   $\chi^2/\text{NDF}$ : 3885.3/45

- sign  $-1.402 \pm 0.057$   $\chi^2/\text{NDF}$ : 2313.4/22

# 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:  $0.240 \pm 0.005$   $\chi^2/\text{NDF}: 919.4/5$

Right Out:  $0.224 \pm 0.004$   $\chi^2/\text{NDF}: 995.8/17$

Left In:  $0.179 \pm 0.005$   $\chi^2/\text{NDF}: 627.2/4$

+ sign  $0.222 \pm 0.003$   $\chi^2/\text{NDF}: 1543.6/22$

All:  $0.213 \pm 0.002$   $\chi^2/\text{NDF}: 3233.6/45$

- sign  $0.206 \pm 0.003$   $\chi^2/\text{NDF}: 1677.7/22$