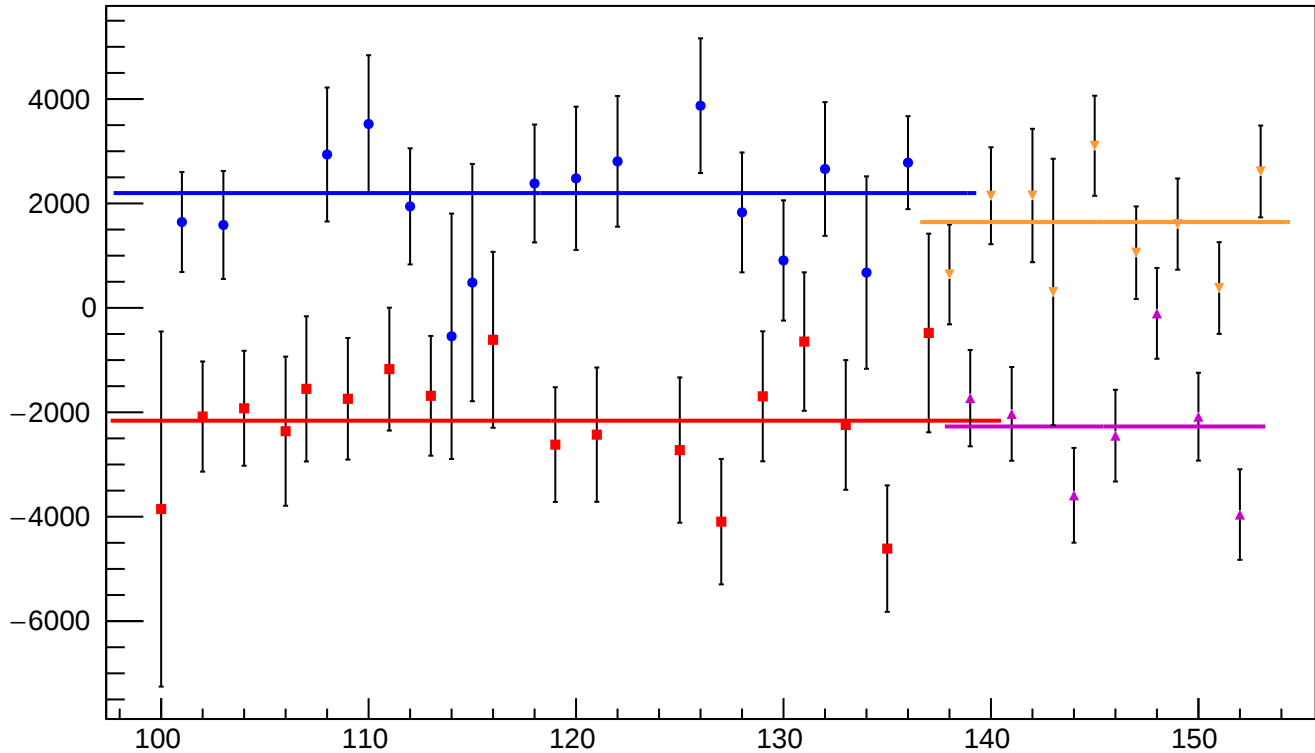


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2198.880±/306.767

Left Out: 1643.787±/328.309

Right Out: -2160.742±/303.587

Left In: -2271.767±/333.544

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

$\chi^2/\text{NDF}$ : 7.9/8

$\chi^2/\text{NDF}$ : 11.7/17

$\chi^2/\text{NDF}$ : 12.6/6

+ sign 1940.141±/224.146

All: -132.048±/158.625

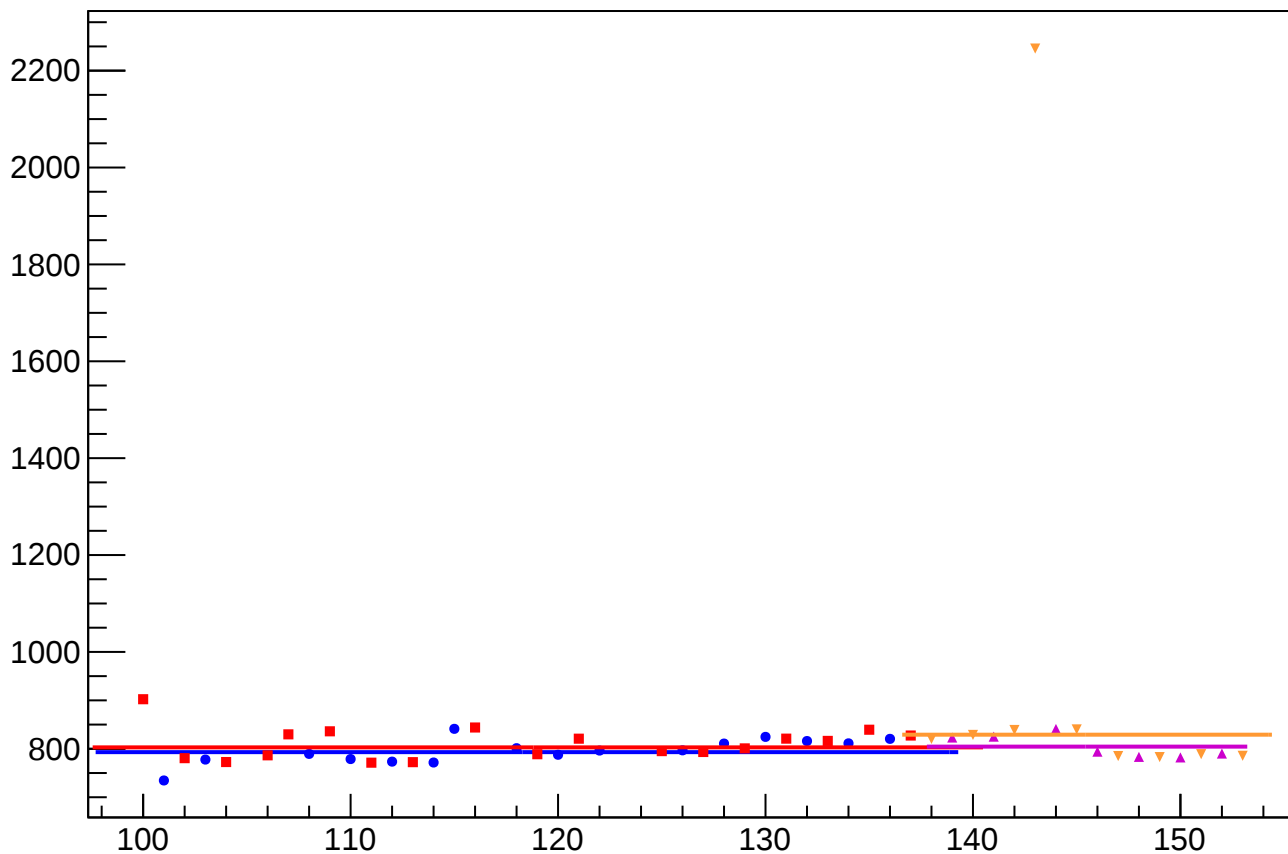
- sign -2211.046±/224.514

$\chi^2/\text{NDF}$ : 18.0/24

$\chi^2/\text{NDF}$ : 213.5/49

$\chi^2/\text{NDF}$ : 24.3/24

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



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

Left Out: 829.131+/-0.232     $\chi^2/\text{NDF}$ : 635838.0/8

Right Out: 802.946+/-0.215     $\chi^2/\text{NDF}$ : 14445.6/17

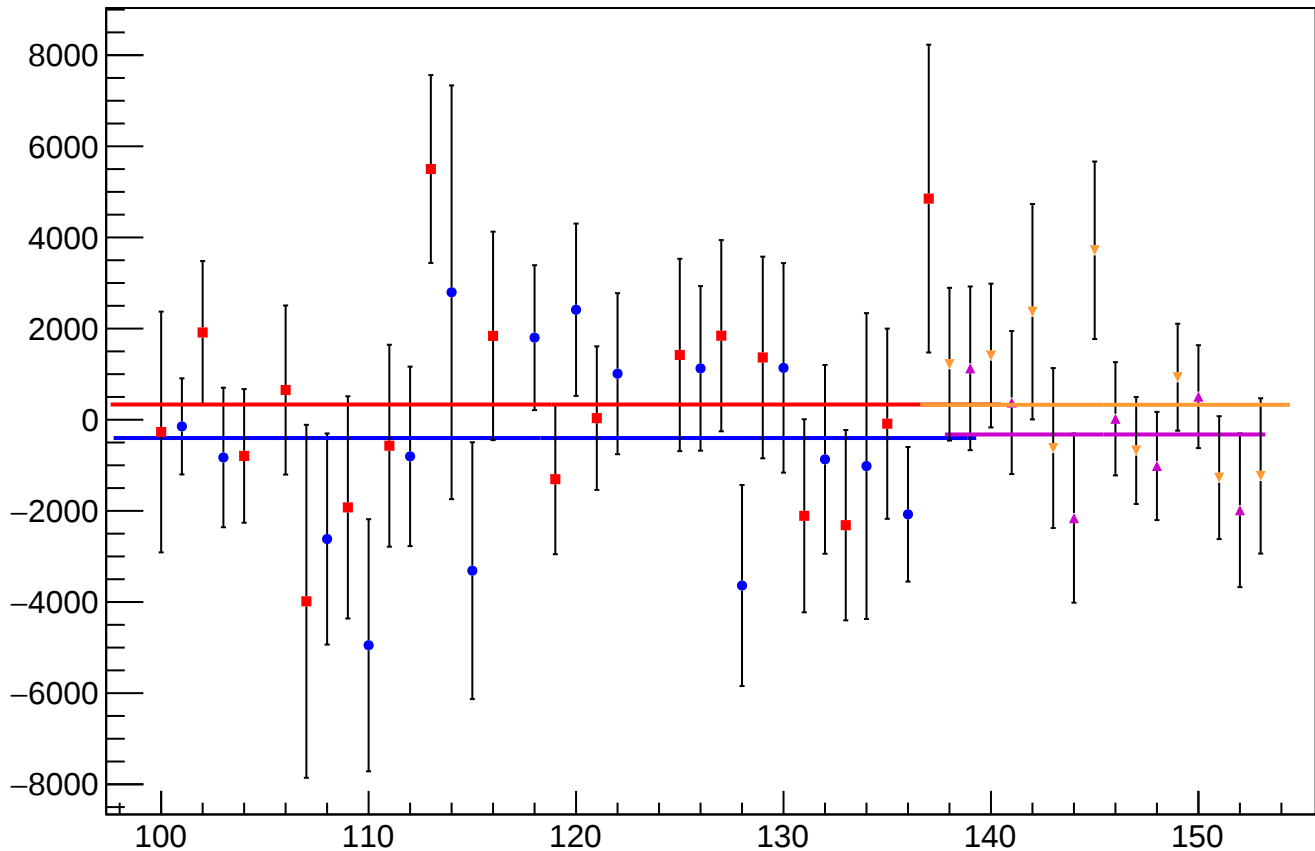
Left In: 804.488+/-0.236     $\chi^2/\text{NDF}$ : 8520.0/6

+ sign 809.890+/-0.158     $\chi^2/\text{NDF}$ : 663408.2/24

All: 806.773+/-0.112     $\chi^2/\text{NDF}$ : 687172.2/49

- sign 803.645+/-0.159     $\chi^2/\text{NDF}$ : 22989.0/24

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



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

Left Out:  $327.440 \pm 508.257$   $\chi^2/\text{NDF}$ : 8.1/8

Right Out:  $333.998 \pm 478.476$   $\chi^2/\text{NDF}$ : 17.5/17

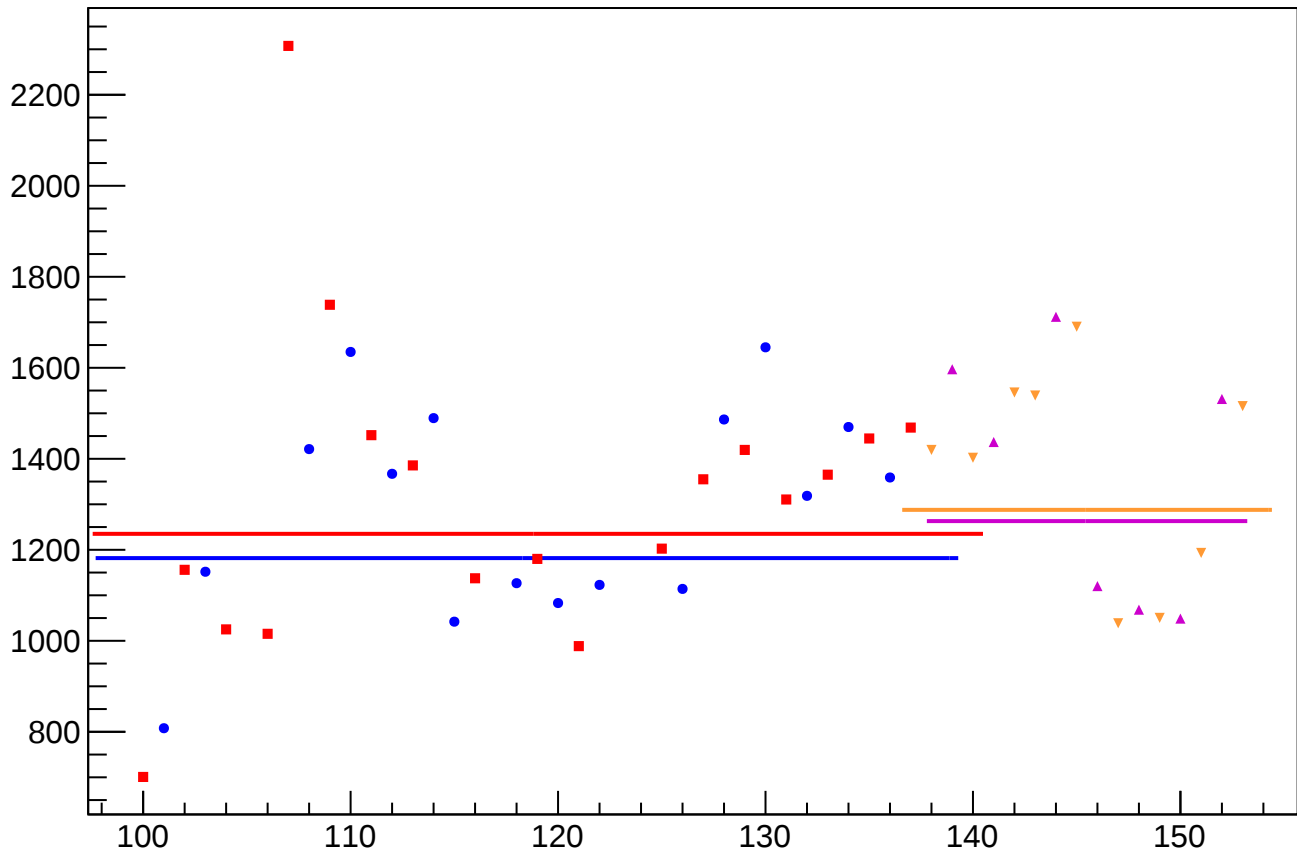
Left In:  $-323.466 \pm 534.550$   $\chi^2/\text{NDF}$ : 3.8/6

+ sign  $-66.501 \pm 344.545$   $\chi^2/\text{NDF}$ : 24.0/24

All:  $-14.321 \pm 247.754$   $\chi^2/\text{NDF}$ : 46.1/49

- sign  $41.547 \pm 356.516$   $\chi^2/\text{NDF}$ : 22.1/24

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



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

Left Out: 1287.800 $\pm$ 0.359  $\chi^2$ /NDF: 390731.5/8

Right Out: 1235.094 $\pm$ 0.338  $\chi^2$ /NDF: 540252.3/17

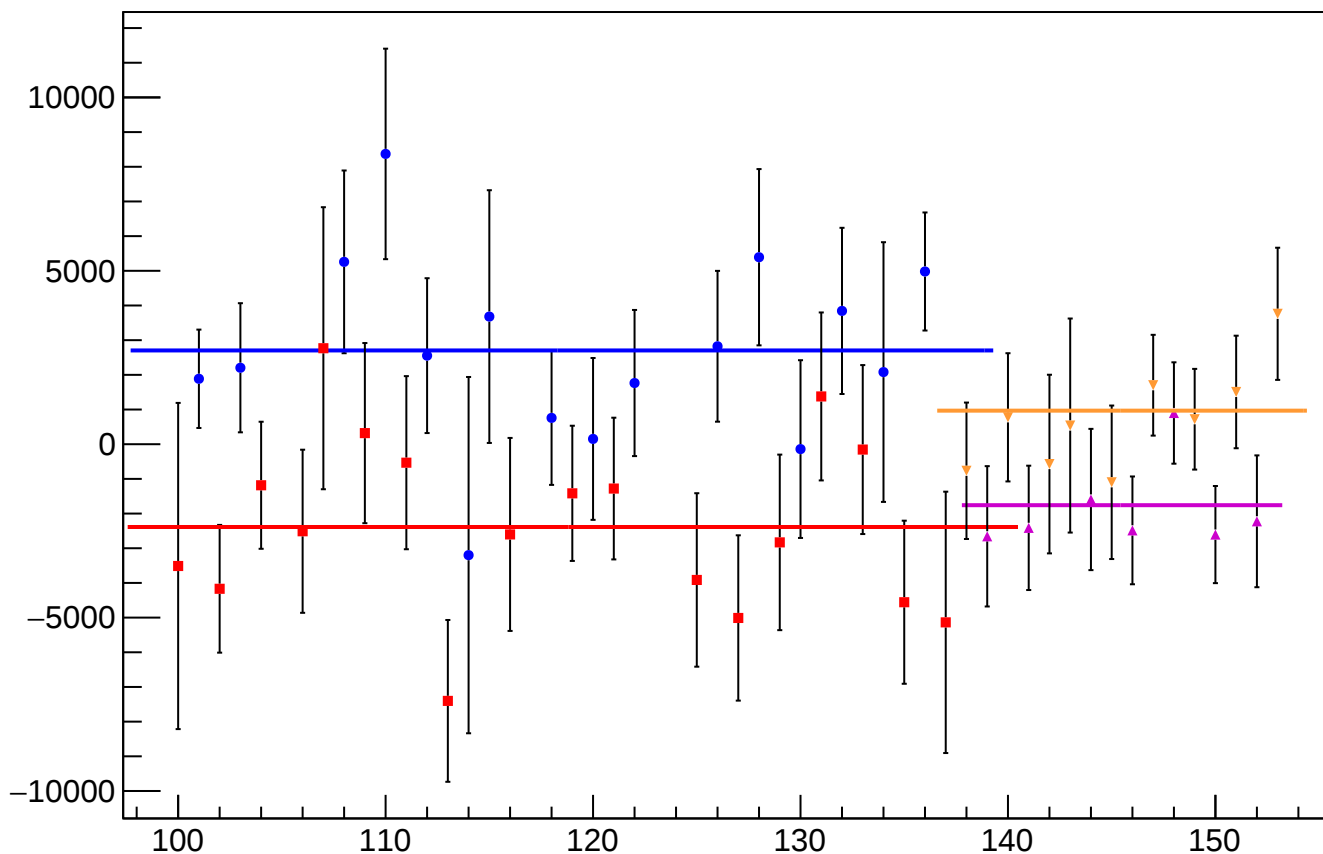
Left In: 1263.087 $\pm$ 0.378  $\chi^2$ /NDF: 413537.1/6

+ sign 1230.494 $\pm$ 0.244  $\chi^2$ /NDF: 981269.6/24

All: 1238.729 $\pm$ 0.175  $\chi^2$ /NDF: 1940469.7/49

- sign 1247.545 $\pm$ 0.252  $\chi^2$ /NDF: 956834.4/24

# asym\_us\_avg\_mean vs Slug



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

Left Out: 967.705+/-618.514  $\chi^2/\text{NDF}$ : 4.6/8

Right Out: -2387.341+/-569.264  $\chi^2/\text{NDF}$ : 16.1/17

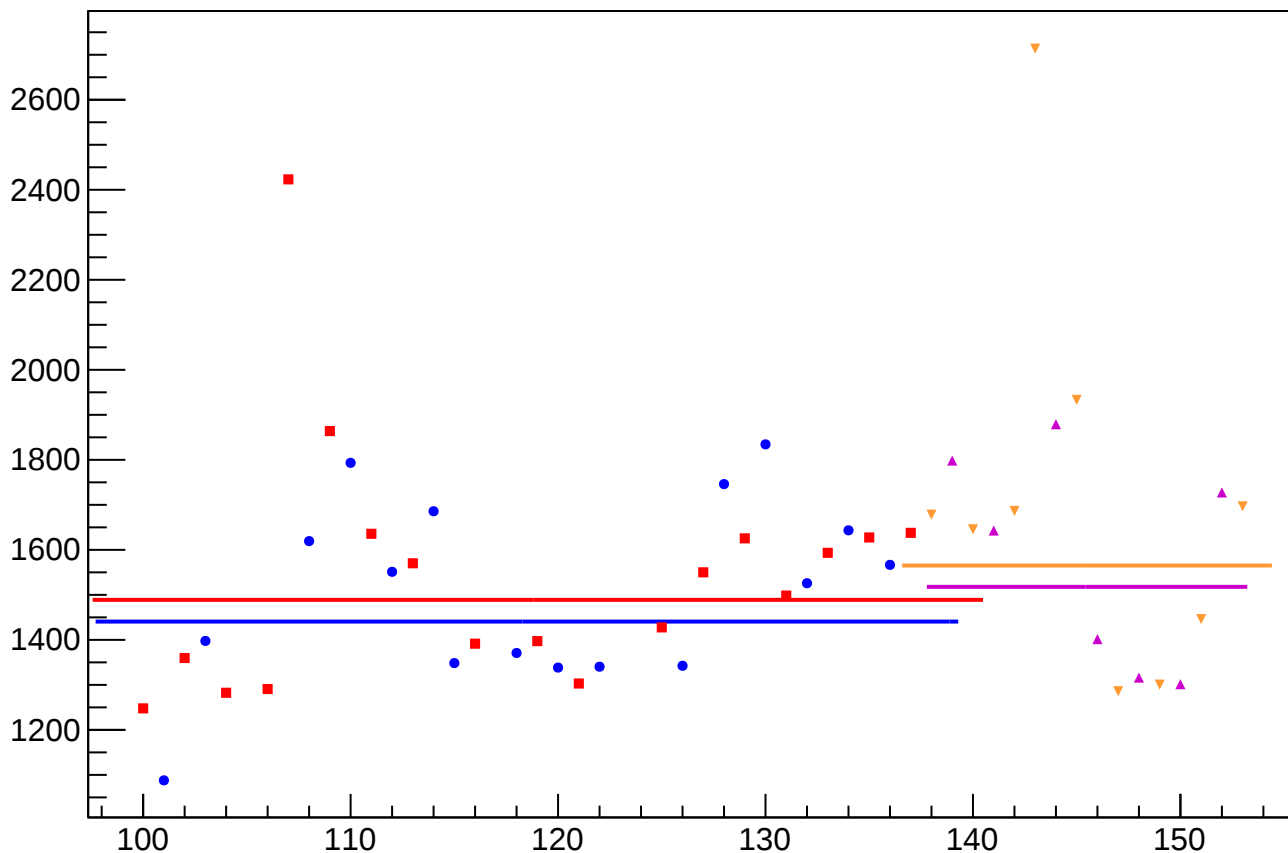
Left In: -1758.458+/-636.912  $\chi^2/\text{NDF}$ : 4.3/6

+ sign 1914.785+/-416.954  $\chi^2/\text{NDF}$ : 21.9/24

All: -60.853+/-297.442  $\chi^2/\text{NDF}$ : 88.5/49

- sign -2108.060+/-424.440  $\chi^2/\text{NDF}$ : 20.9/24

# asym\_us\_avg\_rms vs Slug



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

Left Out: 1565.176+/-0.437  $\chi^2/\text{NDF}$ : 507689.7/8

Right Out: 1488.944+/-0.403  $\chi^2/\text{NDF}$ : 256842.6/17

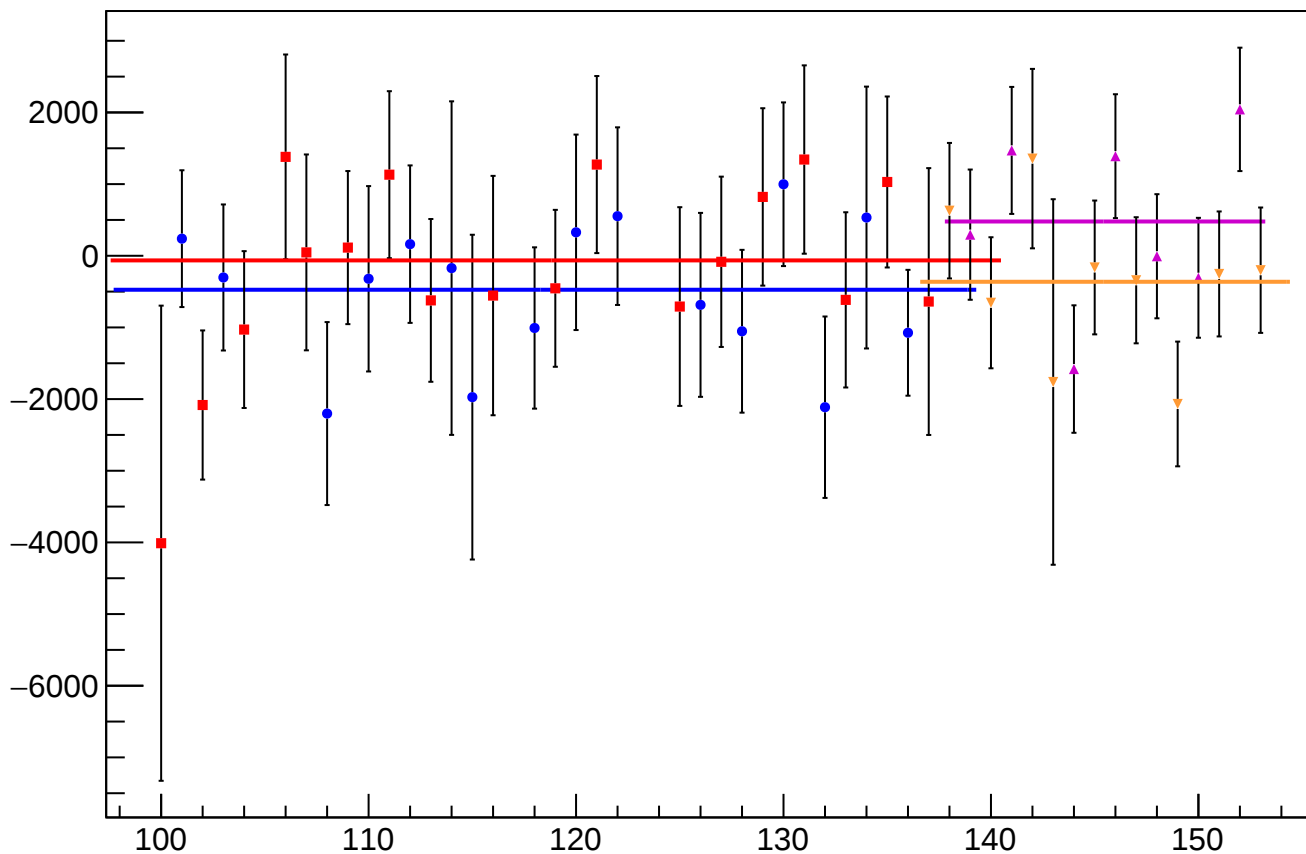
Left In: 1517.803+/-0.450  $\chi^2/\text{NDF}$ : 232455.2/6

+ sign 1497.241+/-0.295  $\chi^2/\text{NDF}$ : 834177.7/24

All: 1499.460+/-0.210  $\chi^2/\text{NDF}$ : 1325873.5/49

- sign 1501.760+/-0.300  $\chi^2/\text{NDF}$ : 491580.5/24

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



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

Left Out: -362.889+/-324.676  $\chi^2/\text{NDF}$ : 7.3/8

Right Out: -64.684+/-298.395  $\chi^2/\text{NDF}$ : 12.7/17

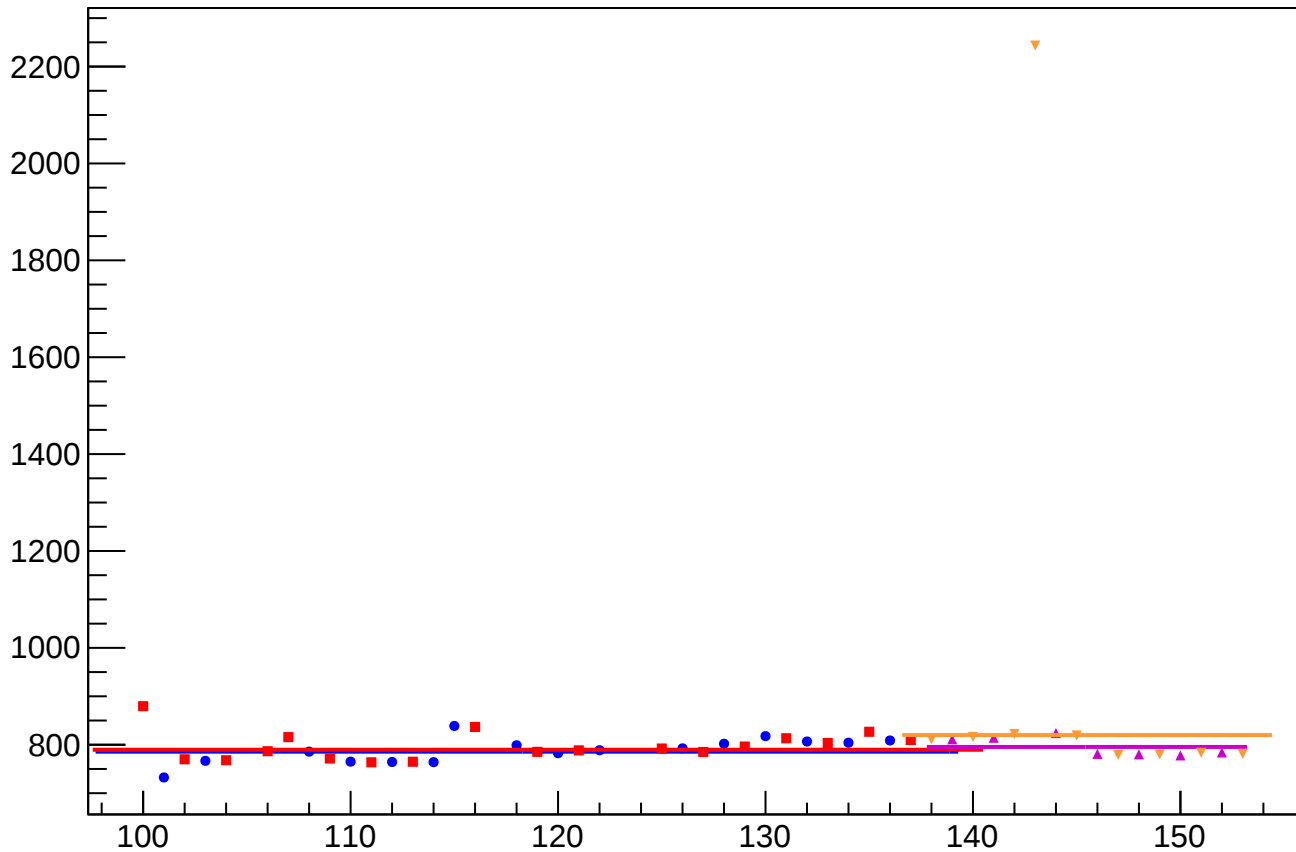
Left In: 478.279+/-329.734  $\chi^2/\text{NDF}$ : 12.3/6

+ sign -422.183+/-221.877  $\chi^2/\text{NDF}$ : 16.3/24

All: -120.351+/-156.668  $\chi^2/\text{NDF}$ : 46.4/49

- sign 179.775+/-221.249  $\chi^2/\text{NDF}$ : 26.5/24

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



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

Left Out: 819.971 $\pm$ 0.230  $\chi^2$ /NDF: 639203.1/8

Right Out: 789.675 $\pm$ 0.211  $\chi^2$ /NDF: 11010.0/17

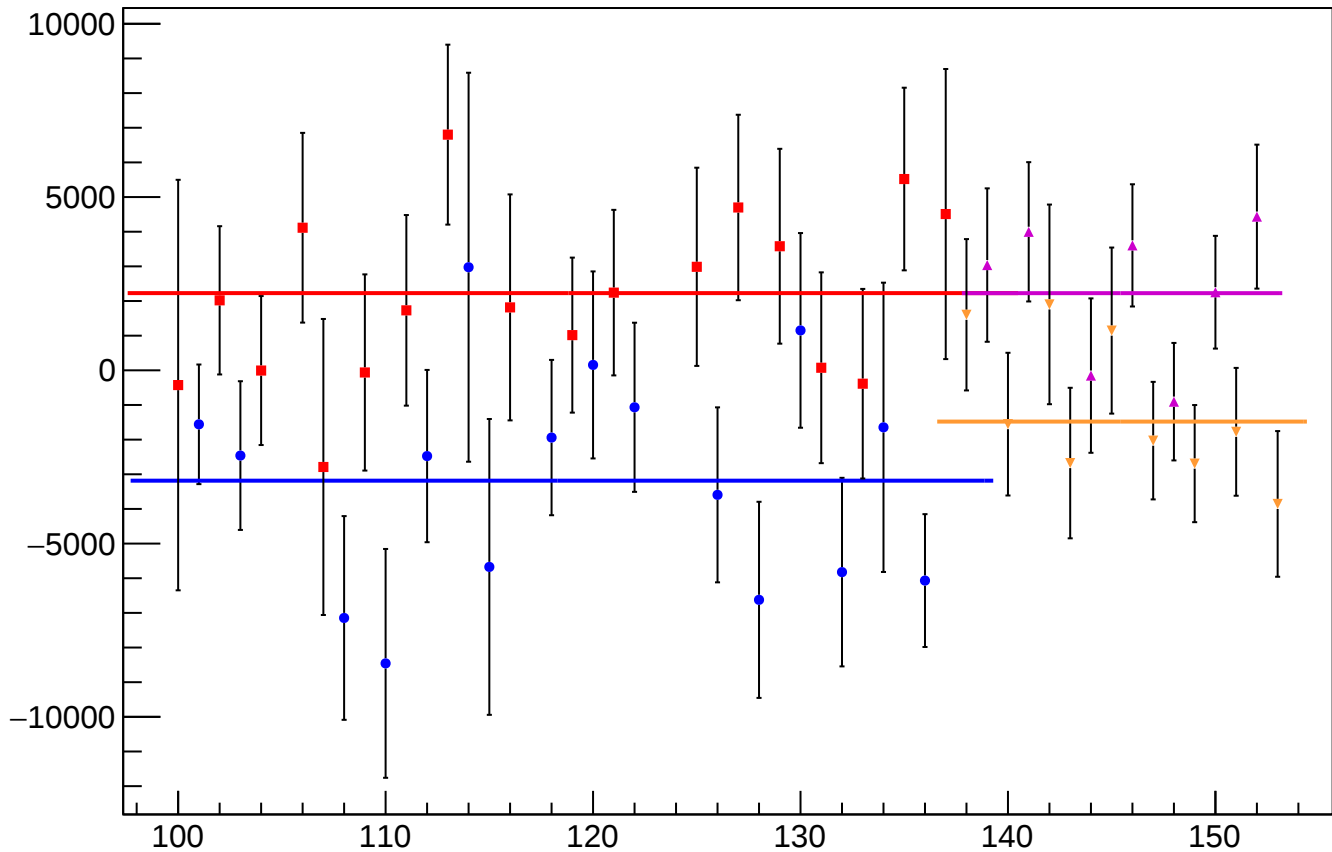
Left In: 795.480 $\pm$ 0.233  $\chi^2$ /NDF: 5970.5/6

+ sign 801.729 $\pm$ 0.157  $\chi^2$ /NDF: 664969.9/24

All: 796.996 $\pm$ 0.111  $\chi^2$ /NDF: 684106.5/49

- sign 792.289 $\pm$ 0.156  $\chi^2$ /NDF: 17321.3/24

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



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

Left Out:  $-1479.280 \pm 678.835$   $\chi^2/\text{NDF}$ : 6.8/8

Right Out:  $2228.093 \pm 648.044$   $\chi^2/\text{NDF}$ : 11.8/17

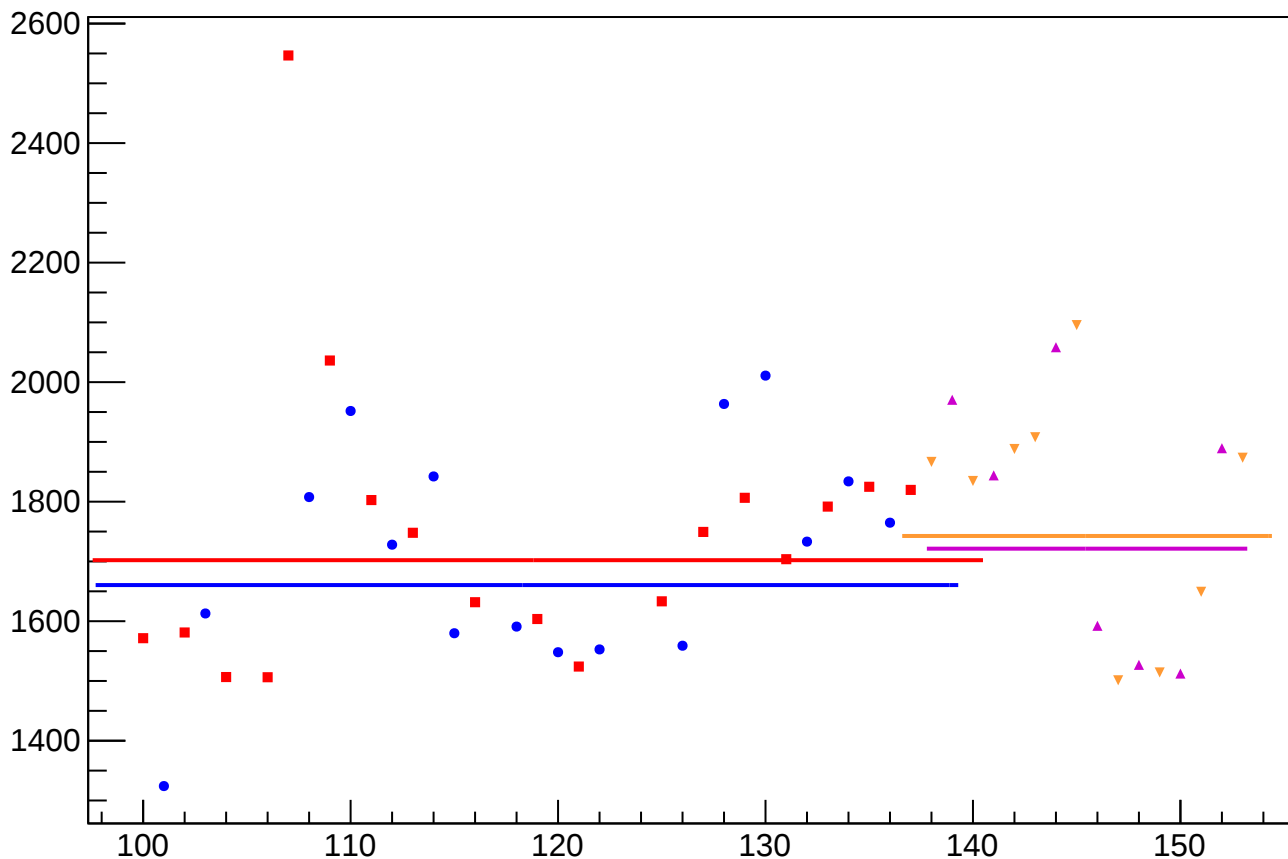
Left In:  $2226.685 \pm 719.432$   $\chi^2/\text{NDF}$ : 7.2/6

+ sign  $-2372.348 \pm 468.485$   $\chi^2/\text{NDF}$ : 26.9/24

All:  $-135.459 \pm 335.777$   $\chi^2/\text{NDF}$ : 92.8/49

- sign  $2227.463 \pm 481.502$   $\chi^2/\text{NDF}$ : 19.0/24

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



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

Left Out: 1742.607 $\pm$ 0.480  $\chi^2$ /NDF: 160420.7/8

Right Out: 1702.098 $\pm$ 0.458  $\chi^2$ /NDF: 172008.4/17

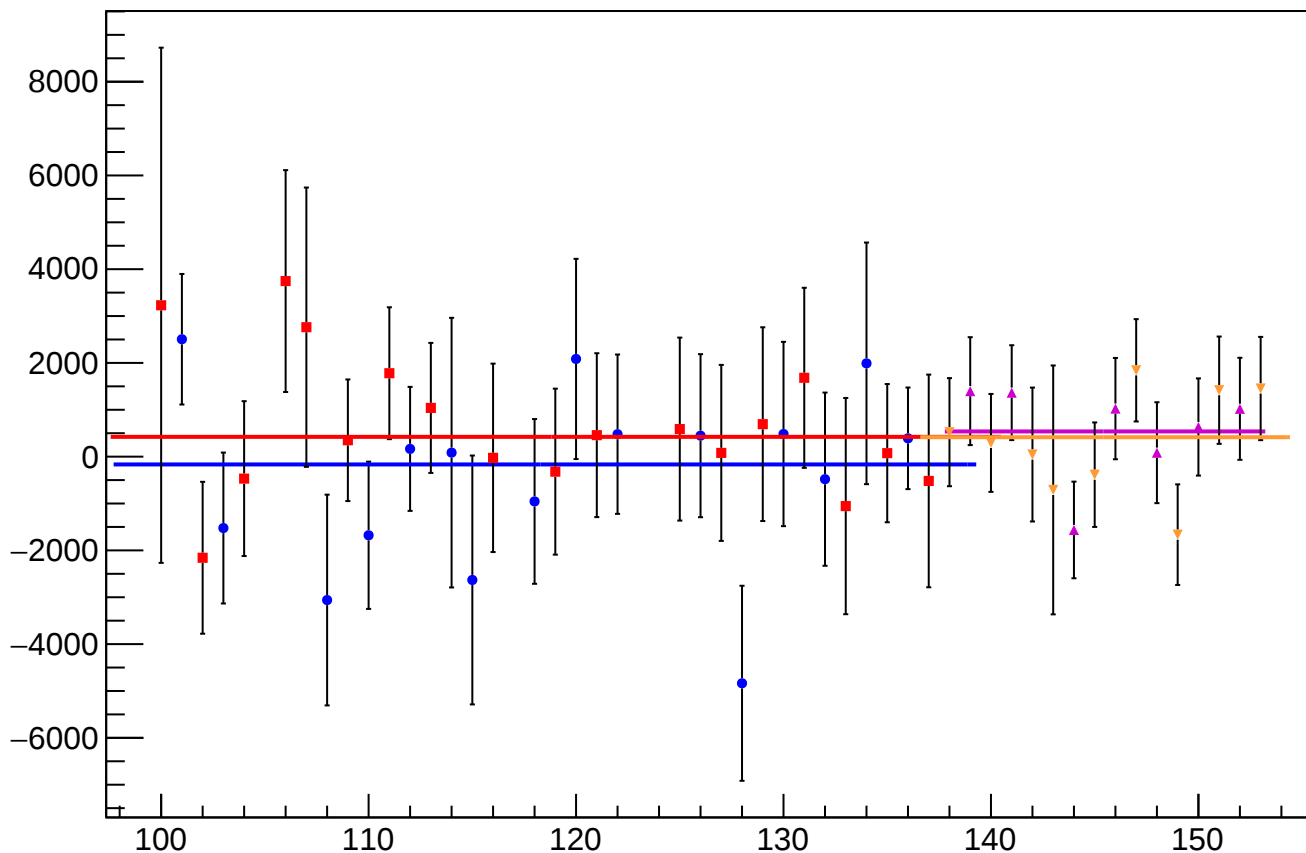
Left In: 1721.367 $\pm$ 0.509  $\chi^2$ /NDF: 161656.3/6

+ sign 1699.586 $\pm$ 0.331  $\chi^2$ /NDF: 354964.5/24

All: 1705.005 $\pm$ 0.237  $\chi^2$ /NDF: 689971.6/49

- sign 1710.729 $\pm$ 0.340  $\chi^2$ /NDF: 334456.7/24

# asym\_us\_dd\_mean vs Slug



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

Left Out:  $414.813 \pm 395.301$   $\chi^2/\text{NDF}$ : 7.9/8

Right Out:  $422.359 \pm 427.321$   $\chi^2/\text{NDF}$ : 8.2/17

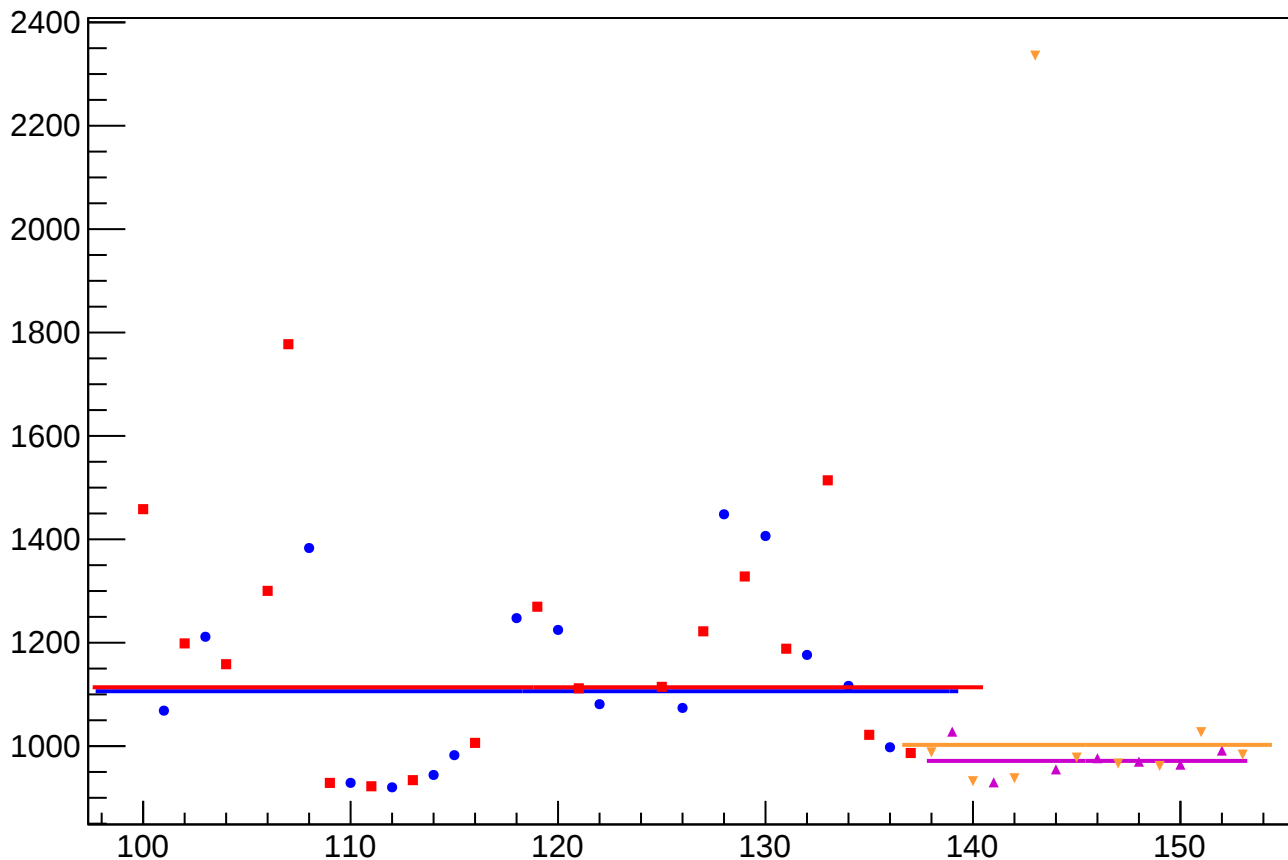
Left In:  $537.888 \pm 402.799$   $\chi^2/\text{NDF}$ : 6.0/6

+ sign  $150.410 \pm 291.841$   $\chi^2/\text{NDF}$ : 24.5/24

All:  $316.251 \pm 206.809$   $\chi^2/\text{NDF}$ : 39.3/49

- sign  $483.533 \pm 293.108$   $\chi^2/\text{NDF}$ : 14.2/24

# asym\_us\_dd\_rms vs Slug



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

Left Out: 1002.375+/-0.280  $\chi^2/\text{NDF}$ : 525177.4/8

Right Out: 1113.821+/-0.302  $\chi^2/\text{NDF}$ : 364293.1/17

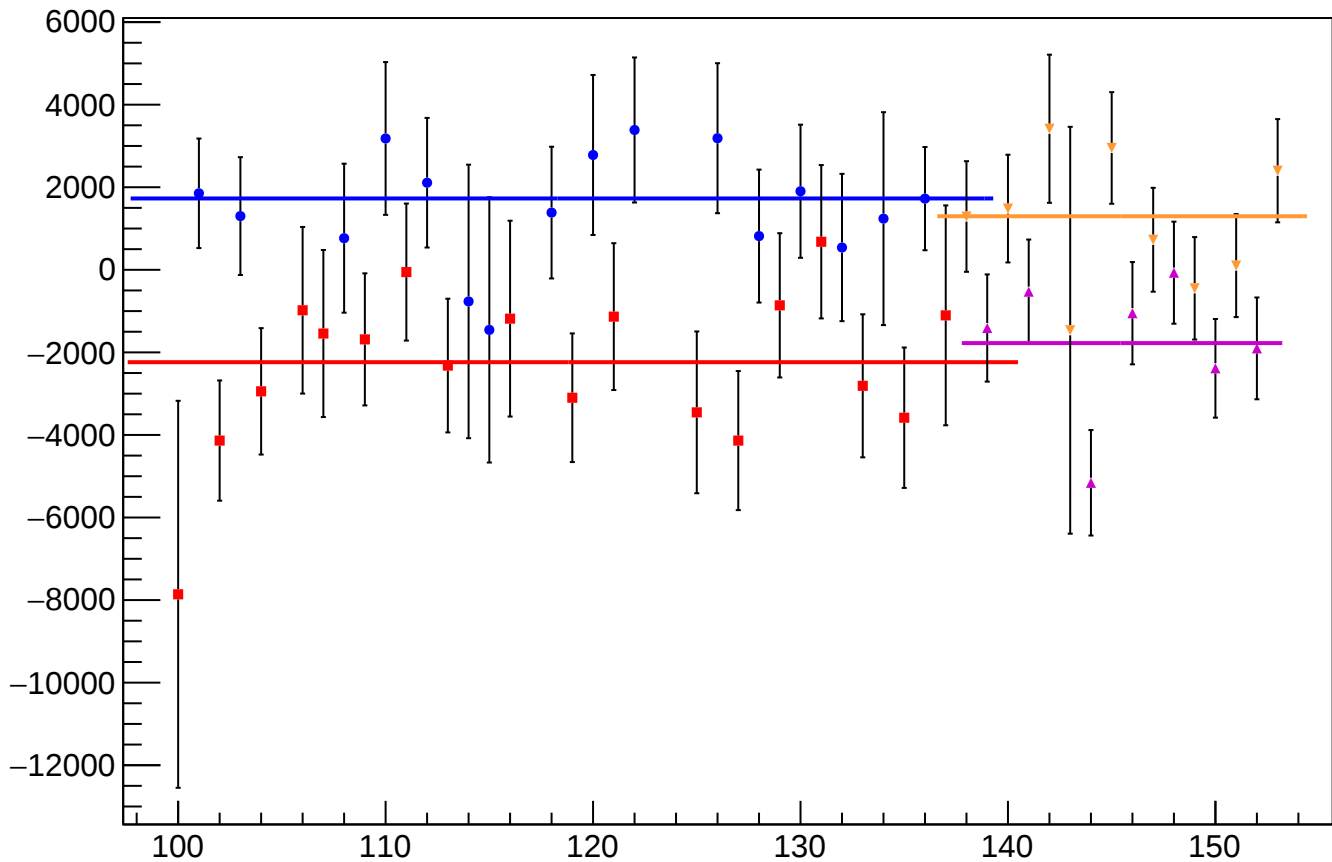
Left In: 971.404+/-0.285  $\chi^2/\text{NDF}$ : 9514.5/6

+ sign 1049.591+/-0.206  $\chi^2/\text{NDF}$ : 847814.0/24

All: 1044.024+/-0.146  $\chi^2/\text{NDF}$ : 1340714.0/49

- sign 1038.409+/-0.207  $\chi^2/\text{NDF}$ : 491438.4/24

# dit\_asym\_usl\_mean vs Slug



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

Left Out:  $1297.429 \pm 465.919$   $\chi^2/\text{NDF}$ : 7.1/8

Right Out:  $-2237.683 \pm 425.458$   $\chi^2/\text{NDF}$ : 12.3/17

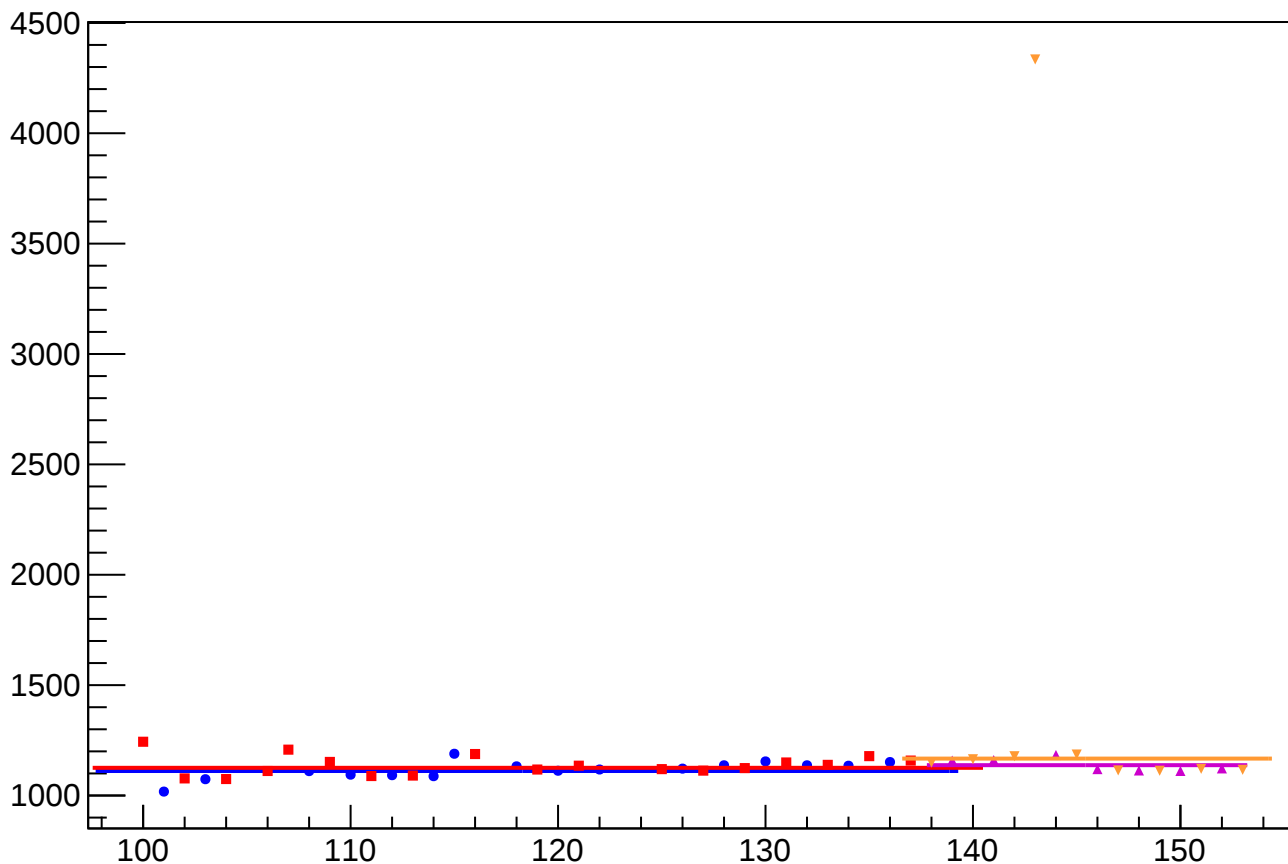
Left In:  $-1775.070 \pm 471.543$   $\chi^2/\text{NDF}$ : 10.6/6

+ sign  $1530.298 \pm 315.914$   $\chi^2/\text{NDF}$ : 12.9/24

All:  $-250.063 \pm 223.374$   $\chi^2/\text{NDF}$ : 99.8/49

- sign  $-2030.081 \pm 315.884$   $\chi^2/\text{NDF}$ : 23.4/24

# dit\_asym\_usl\_rms vs Slug



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

Left Out: 1167.275 $\pm$ 0.329  $\chi^2$ /NDF: 840574.2/8

Right Out: 1125.496 $\pm$ 0.301  $\chi^2$ /NDF: 15880.9/17

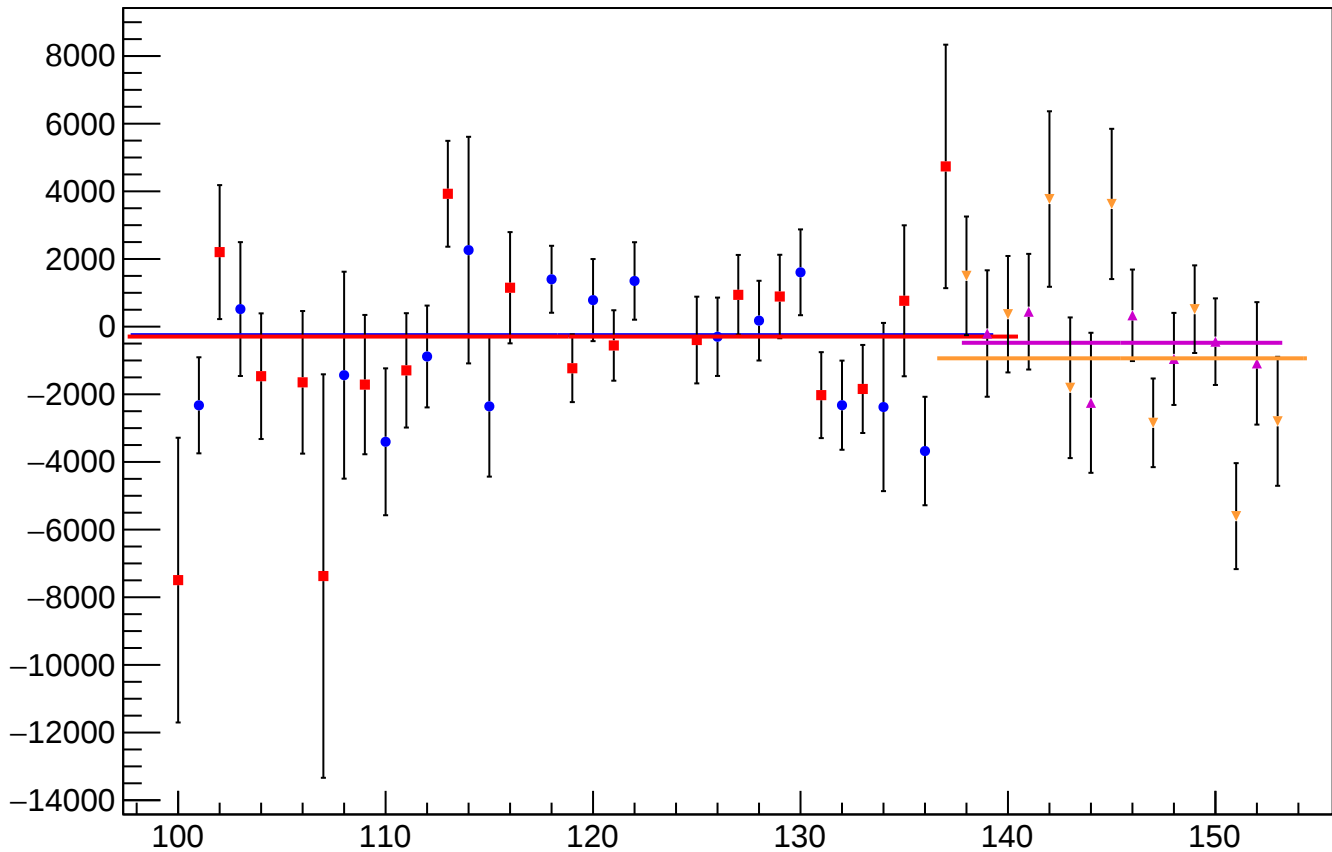
Left In: 1137.465 $\pm$ 0.333  $\chi^2$ /NDF: 6194.4/6

+ sign 1136.895 $\pm$ 0.223  $\chi^2$ /NDF: 874404.8/24

All: 1133.881 $\pm$ 0.158  $\chi^2$ /NDF: 897554.6/49

- sign 1130.867 $\pm$ 0.223  $\chi^2$ /NDF: 22785.6/24

# asym\_usl\_correction\_mean vs Slug



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

Left Out: -936.428+/-567.379  $\chi^2/\text{NDF}$ : 23.4/8

Right Out: -293.658+/-362.490  $\chi^2/\text{NDF}$ : 24.0/17

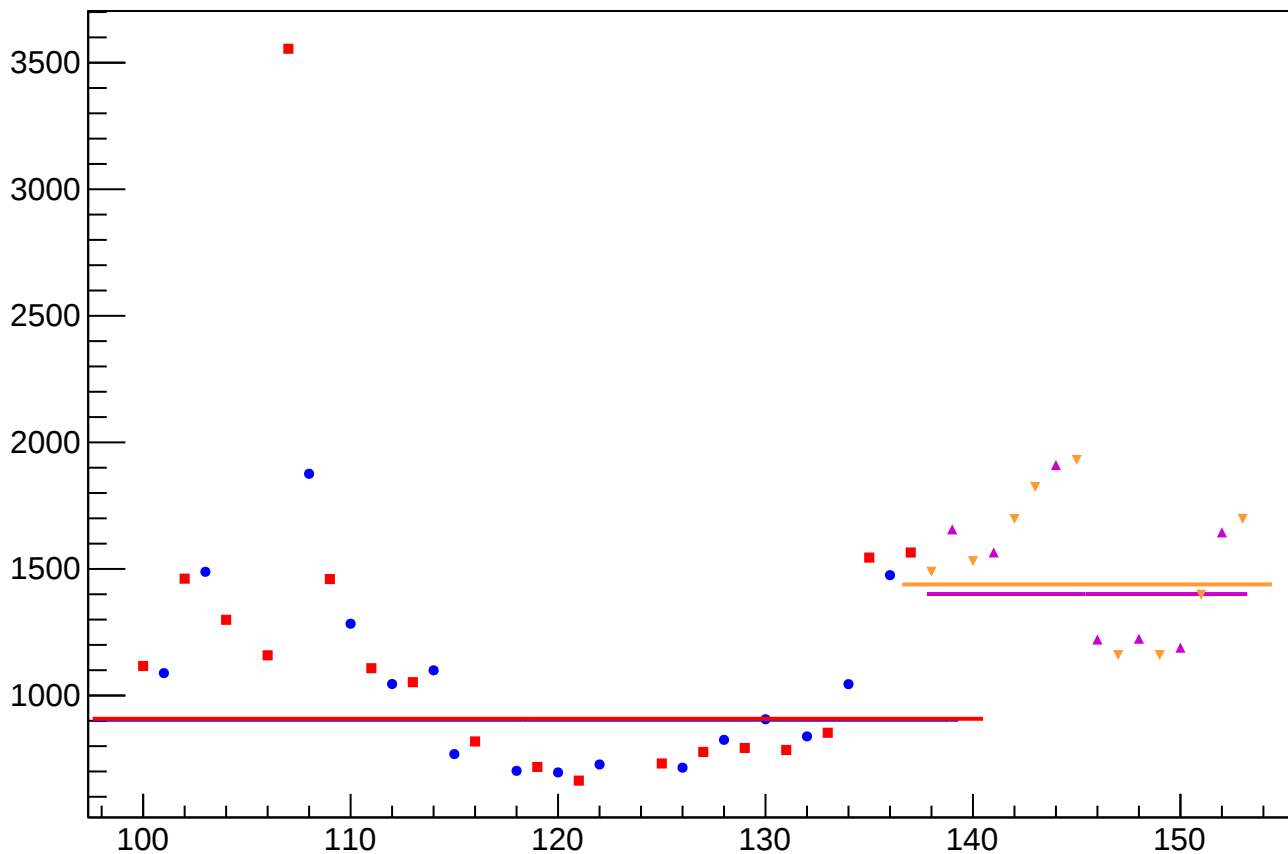
Left In: -477.409+/-590.924  $\chi^2/\text{NDF}$ : 1.6/6

+ sign -451.824+/-306.938  $\chi^2/\text{NDF}$ : 46.3/24

All: -398.220+/-217.759  $\chi^2/\text{NDF}$ : 72.0/49

- sign -343.898+/-308.987  $\chi^2/\text{NDF}$ : 25.7/24

# asym\_usl\_correction\_rms vs Slug



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

Left Out: 1438.883+/-0.401  $\chi^2/\text{NDF}$ : 415318.5/8

Right Out: 908.153+/-0.256  $\chi^2/\text{NDF}$ : 1381025.2/17

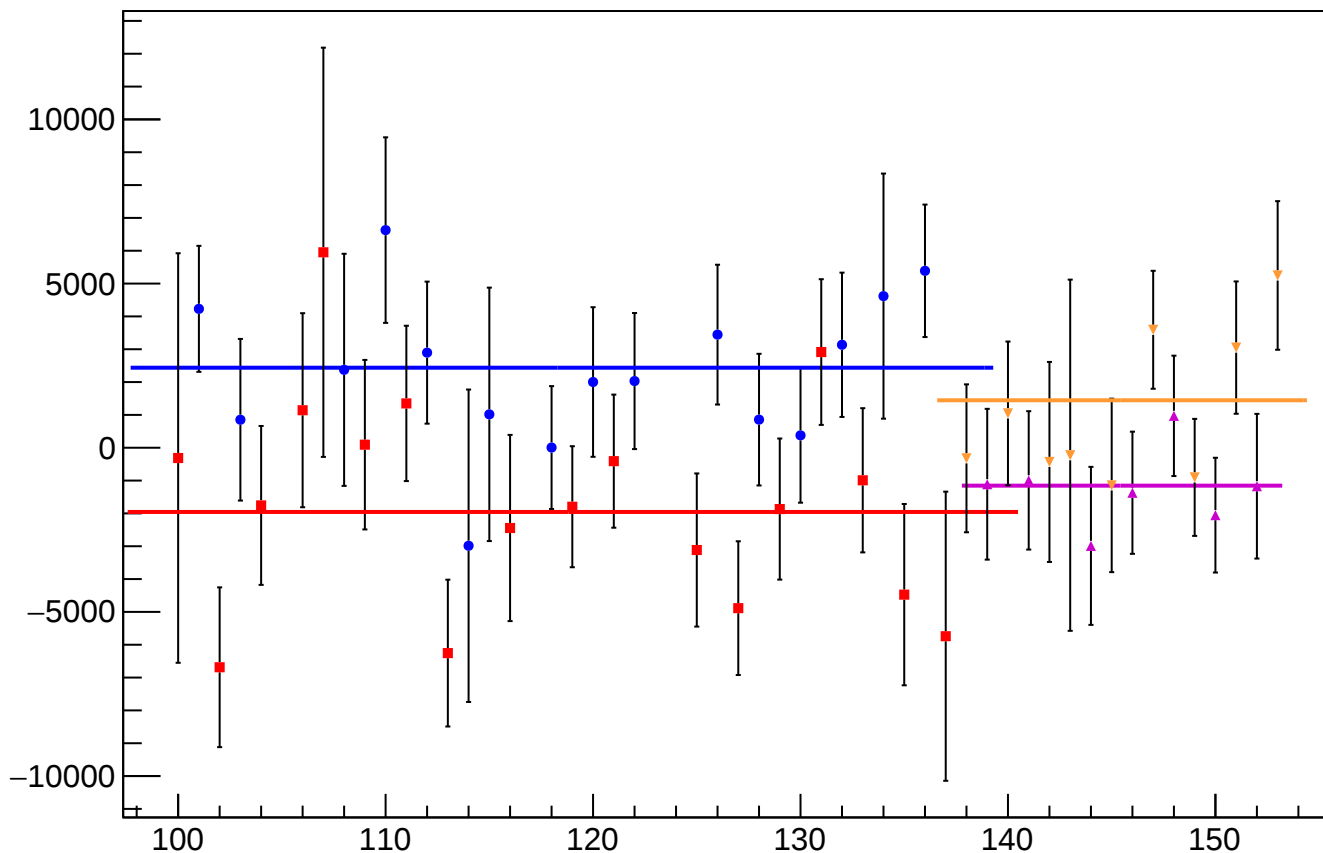
Left In: 1400.883+/-0.418  $\chi^2/\text{NDF}$ : 336975.0/6

+ sign 1060.881+/-0.217  $\chi^2/\text{NDF}$ : 2691398.1/24

All: 1051.936+/-0.154  $\chi^2/\text{NDF}$ : 5423172.0/49

- sign 1042.871+/-0.218  $\chi^2/\text{NDF}$ : 2728354.0/24

# asym\_usl\_mean vs Slug



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

Left Out:  $1445.002 \pm 754.164$   $\chi^2/\text{NDF}: 8.7/8$

Right Out:  $-1955.910 \pm 584.085$   $\chi^2/\text{NDF}: 22.4/17$

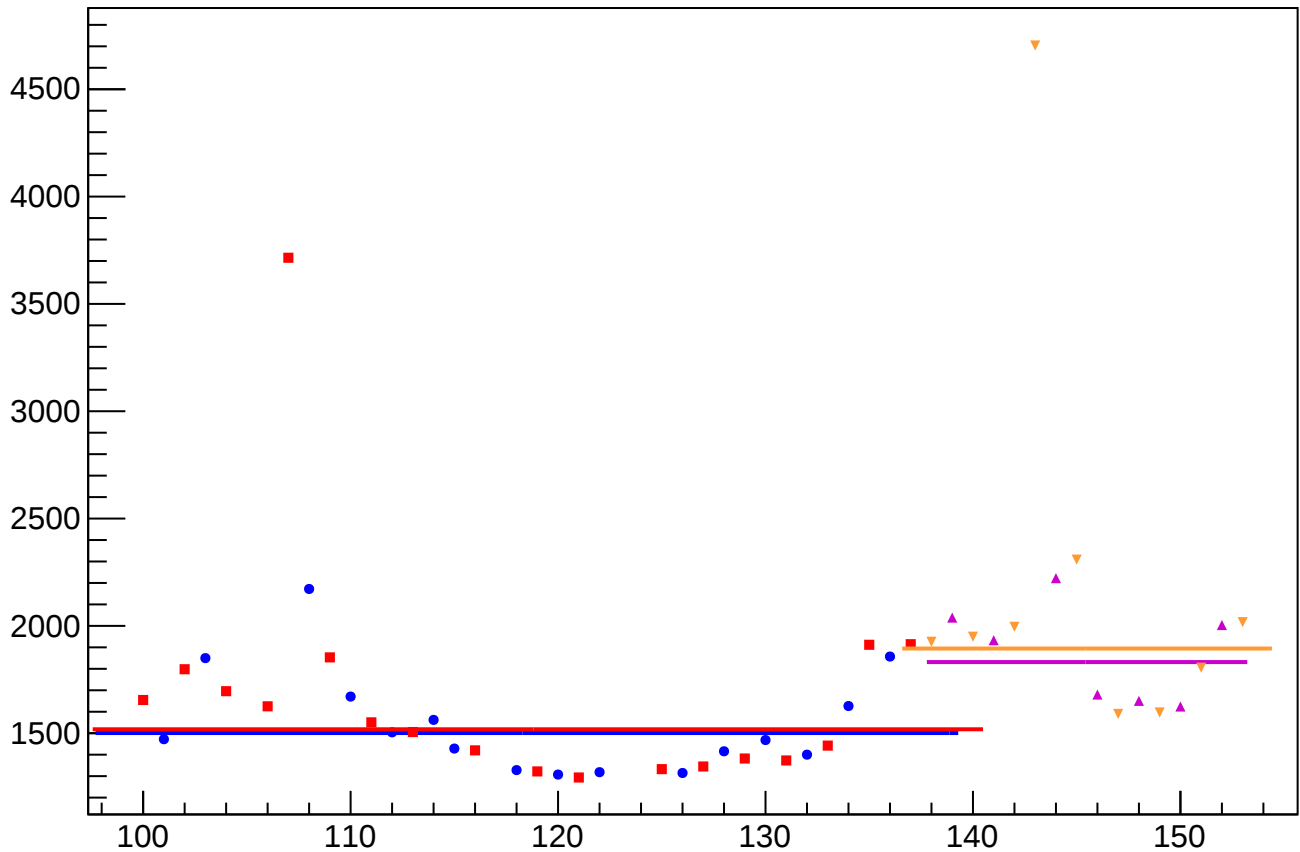
Left In:  $-1154.799 \pm 765.293$   $\chi^2/\text{NDF}: 2.2/6$

+ sign  $2063.682 \pm 462.844$   $\chi^2/\text{NDF}: 21.0/24$

All:  $207.198 \pm 327.796$   $\chi^2/\text{NDF}: 78.5/49$

- sign  $-1661.030 \pm 464.306$   $\chi^2/\text{NDF}: 25.3/24$

# asym\_usl\_rms vs Slug



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

Left Out:  $1894.517 \pm 0.533$   $\chi^2/\text{NDF}$ : 728115.0/8

Right Out:  $1518.327 \pm 0.413$   $\chi^2/\text{NDF}$ : 476011.7/17

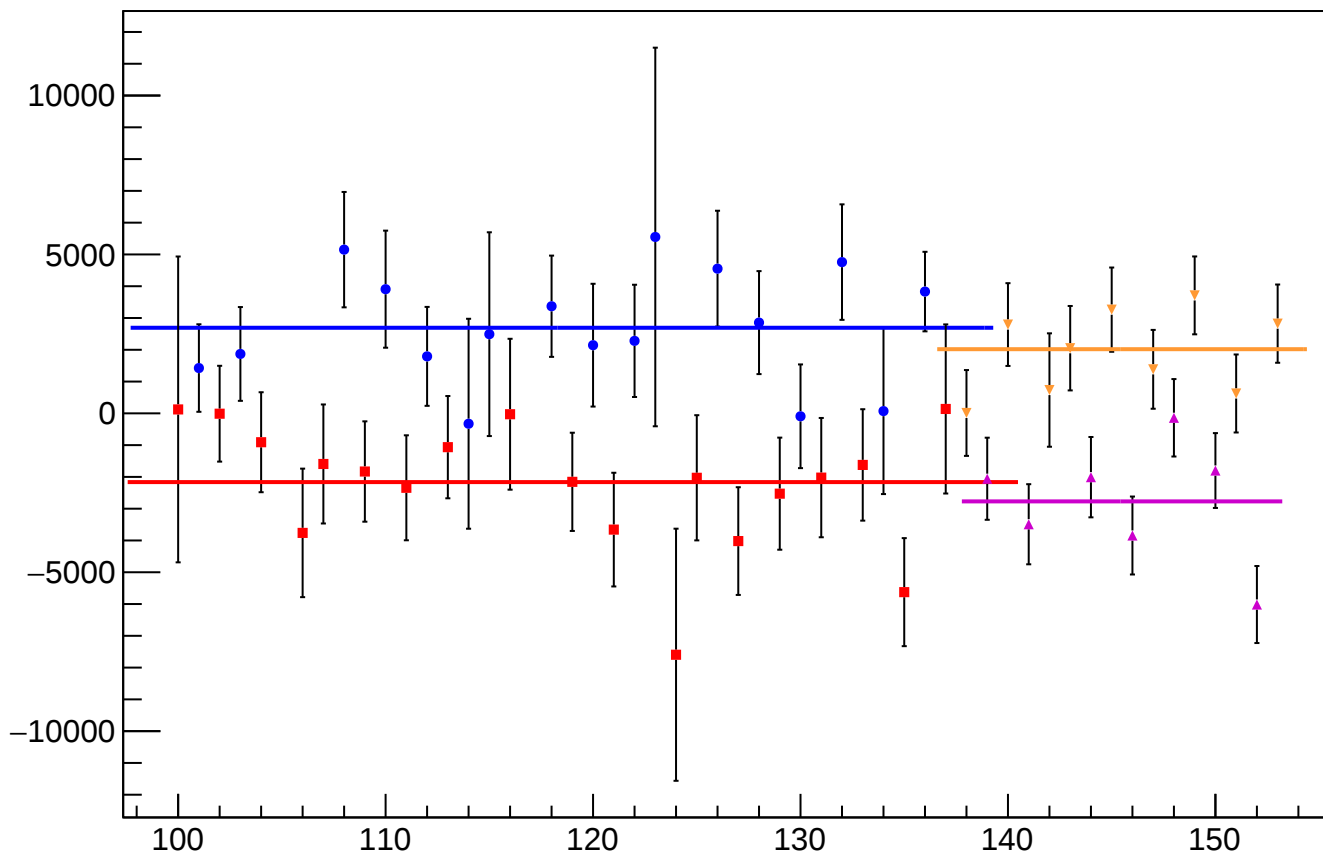
Left In:  $1831.428 \pm 0.541$   $\chi^2/\text{NDF}$ : 146732.7/6

+ sign  $1649.112 \pm 0.327$   $\chi^2/\text{NDF}$ : 1324071.5/24

All:  $1641.368 \pm 0.232$   $\chi^2/\text{NDF}$ : 2159482.4/49

- sign  $1633.576 \pm 0.328$   $\chi^2/\text{NDF}$ : 834287.7/24

# dit\_asym\_usr\_mean vs Slug



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

Left Out:  $2018.746 \pm 437.343$   $\chi^2/\text{NDF}$ : 7.8/8

Right Out:  $-2163.105 \pm 423.797$   $\chi^2/\text{NDF}$ : 13.8/18

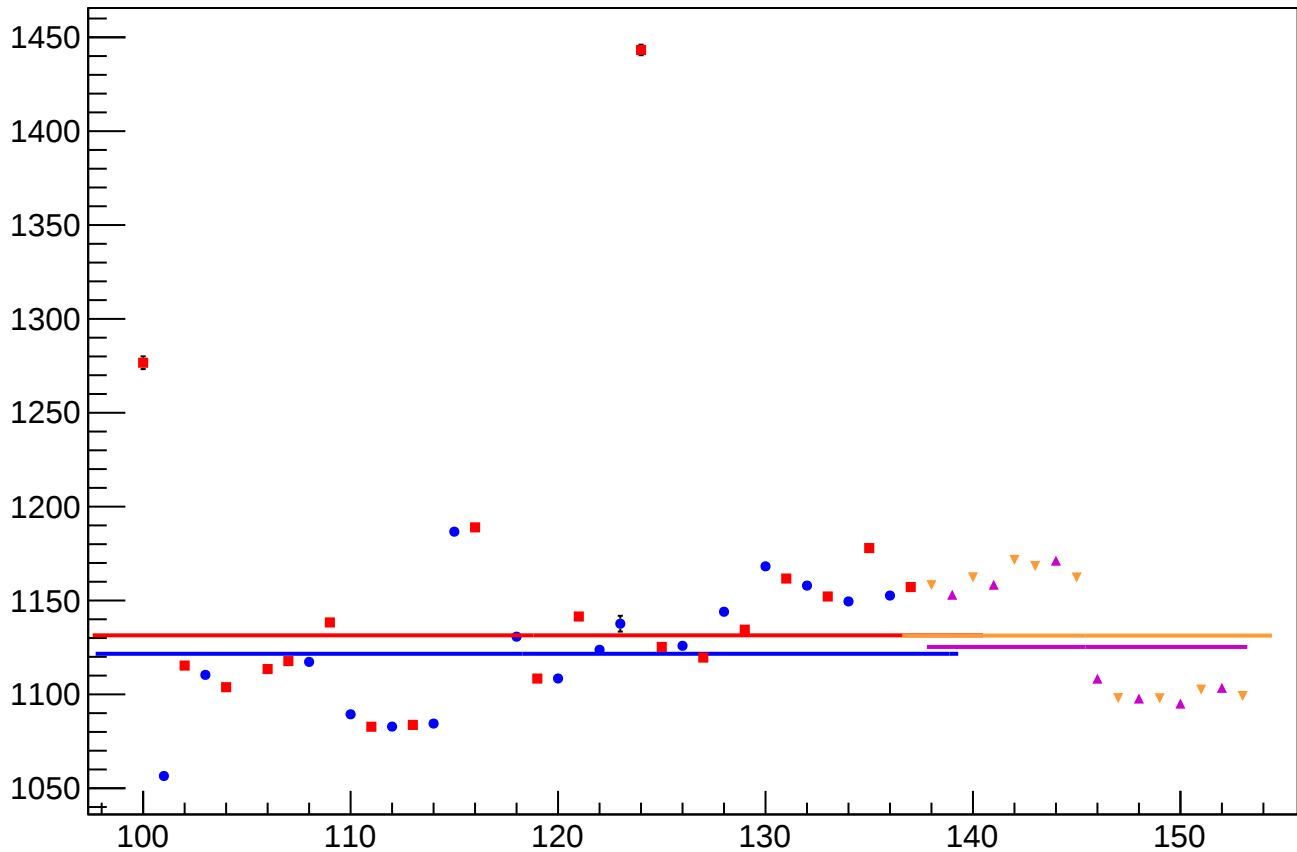
Left In:  $-2770.403 \pm 466.484$   $\chi^2/\text{NDF}$ : 14.3/6

+ sign  $2359.536 \pm 307.563$   $\chi^2/\text{NDF}$ : 21.3/25

All:  $8.131 \pm 219.610$   $\chi^2/\text{NDF}$ : 169.5/51

- sign  $-2437.703 \pm 313.678$   $\chi^2/\text{NDF}$ : 29.0/25

# dit\_asym\_usr\_rms vs Slug



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

Left Out: 1131.319 $\pm$ 0.309  $\chi^2$ /NDF:10989.7/8

Right Out: 1131.451 $\pm$ 0.300  $\chi^2$ /NDF: 23111.7/18

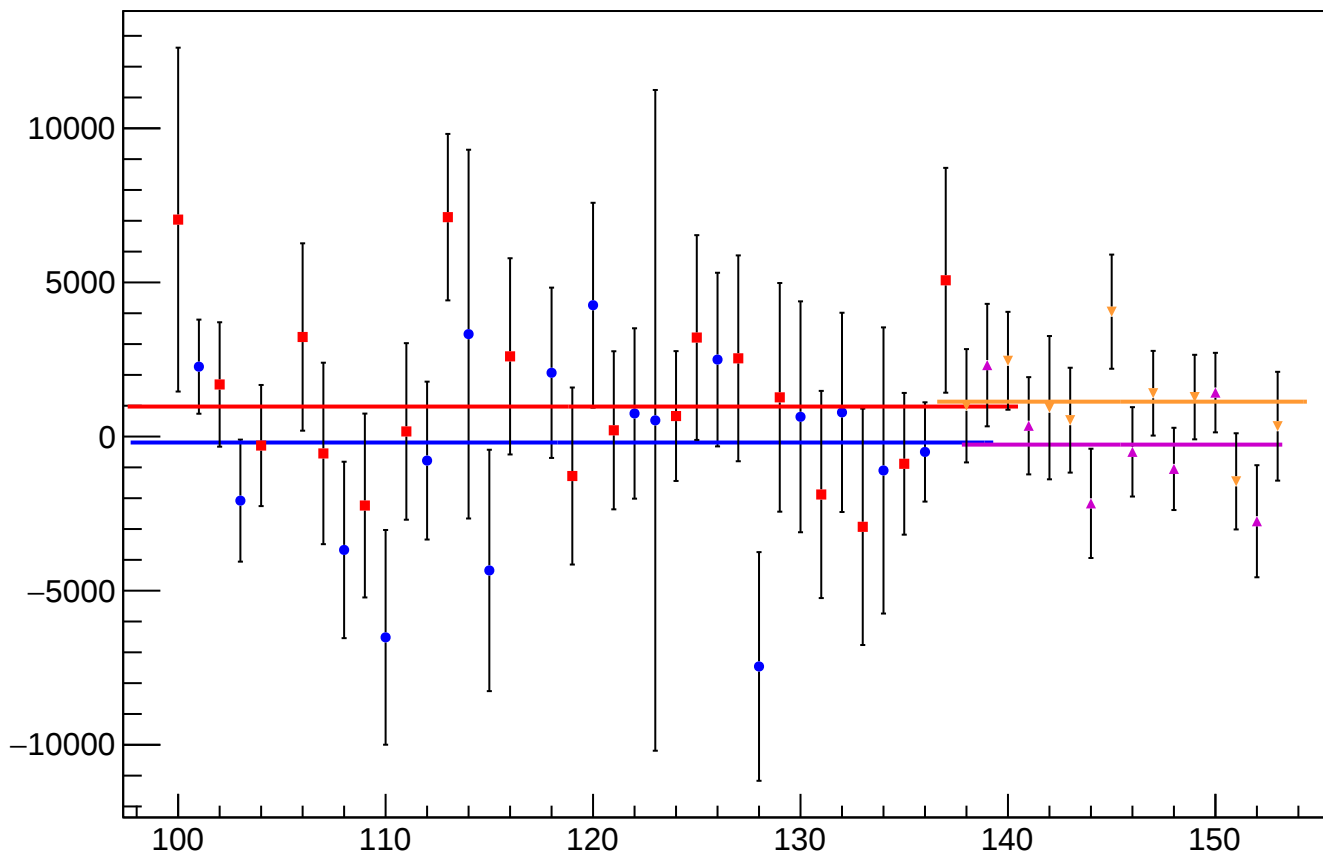
Left In: 1125.262 $\pm$ 0.330  $\chi^2$ /NDF:8308.8/6

+ sign 1126.420 $\pm$ 0.217  $\chi^2$ /NDF: 23466.5/25

All: 1127.514 $\pm$ 0.155  $\chi^2$ /NDF: 55131.6/51

- sign 1128.653 $\pm$ 0.222  $\chi^2$ /NDF: 31613.4/25

# asym\_usr\_correction\_mean vs Slug



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

Left Out:  $1132.095 \pm 549.786$   $\chi^2/\text{NDF}: 6.3/8$

Right Out:  $973.263 \pm 645.048$   $\chi^2/\text{NDF}: 14.3/18$

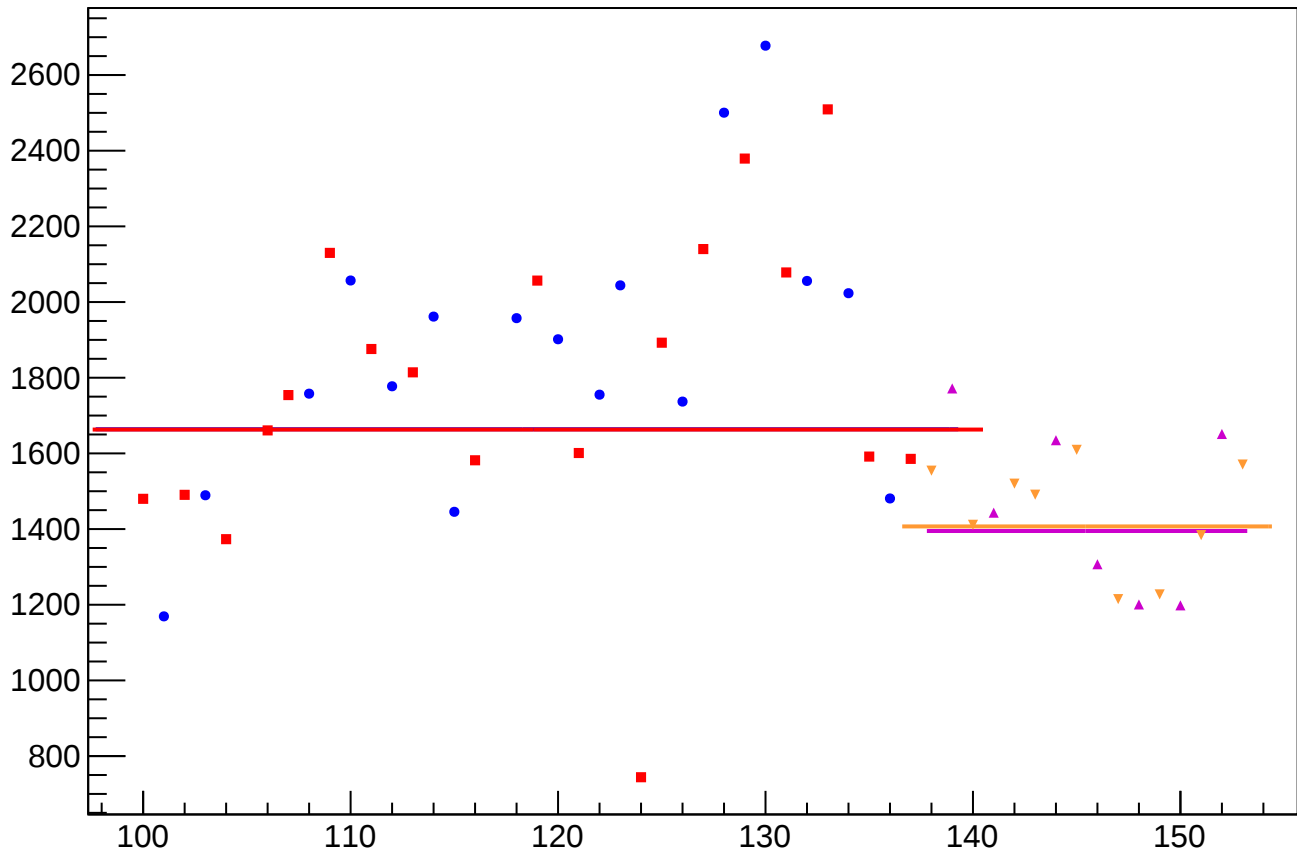
Left In:  $-261.565 \pm 585.719$   $\chi^2/\text{NDF}: 6.9/6$

+ sign  $589.485 \pm 422.519$   $\chi^2/\text{NDF}: 26.1/25$

All:  $446.775 \pm 302.617$   $\chi^2/\text{NDF}: 49.5/51$

- sign  $296.463 \pm 433.627$   $\chi^2/\text{NDF}: 23.3/25$

# asym\_usr\_correction\_rms vs Slug



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

Left Out: 1406.988 $\pm$ 0.389  $\chi^2/\text{NDF}$ : 137423.5/8

Right Out: 1662.985 $\pm$ 0.456  $\chi^2/\text{NDF}$ : 804974.2/18

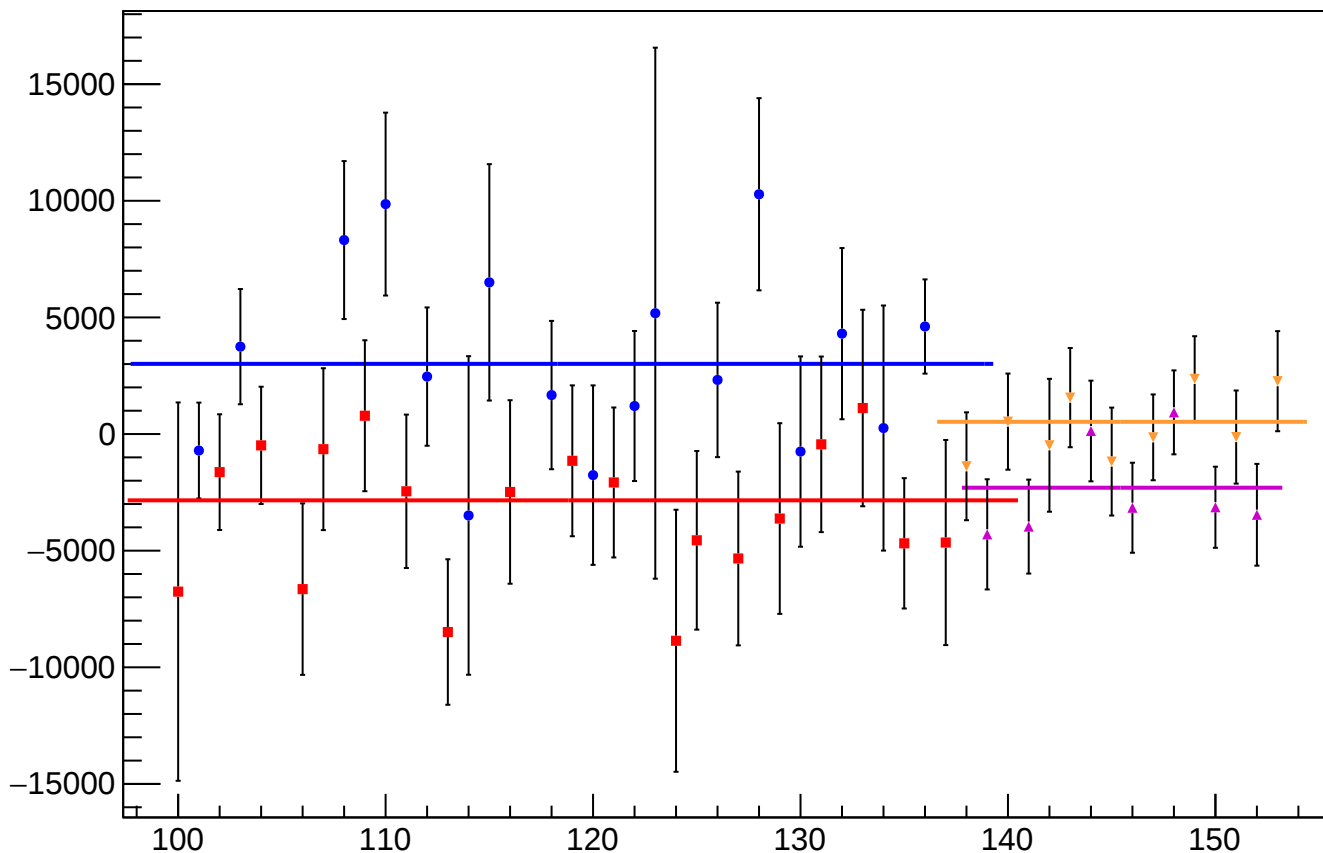
Left In: 1394.884 $\pm$ 0.414  $\chi^2/\text{NDF}$ : 246390.5/6

+ sign 1512.115 $\pm$ 0.299  $\chi^2/\text{NDF}$ : 938522.5/25

All: 1514.027 $\pm$ 0.214  $\chi^2/\text{NDF}$ : 2179336.1/51

- sign 1516.041 $\pm$ 0.307  $\chi^2/\text{NDF}$ : 1240729.5/25

# asym\_usr\_mean vs Slug



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

Left Out: 524.365+/-704.256  $\chi^2/\text{NDF}$ : 3.5/8

Right Out: -2842.013+/-795.731  $\chi^2/\text{NDF}$ : 11.4/18

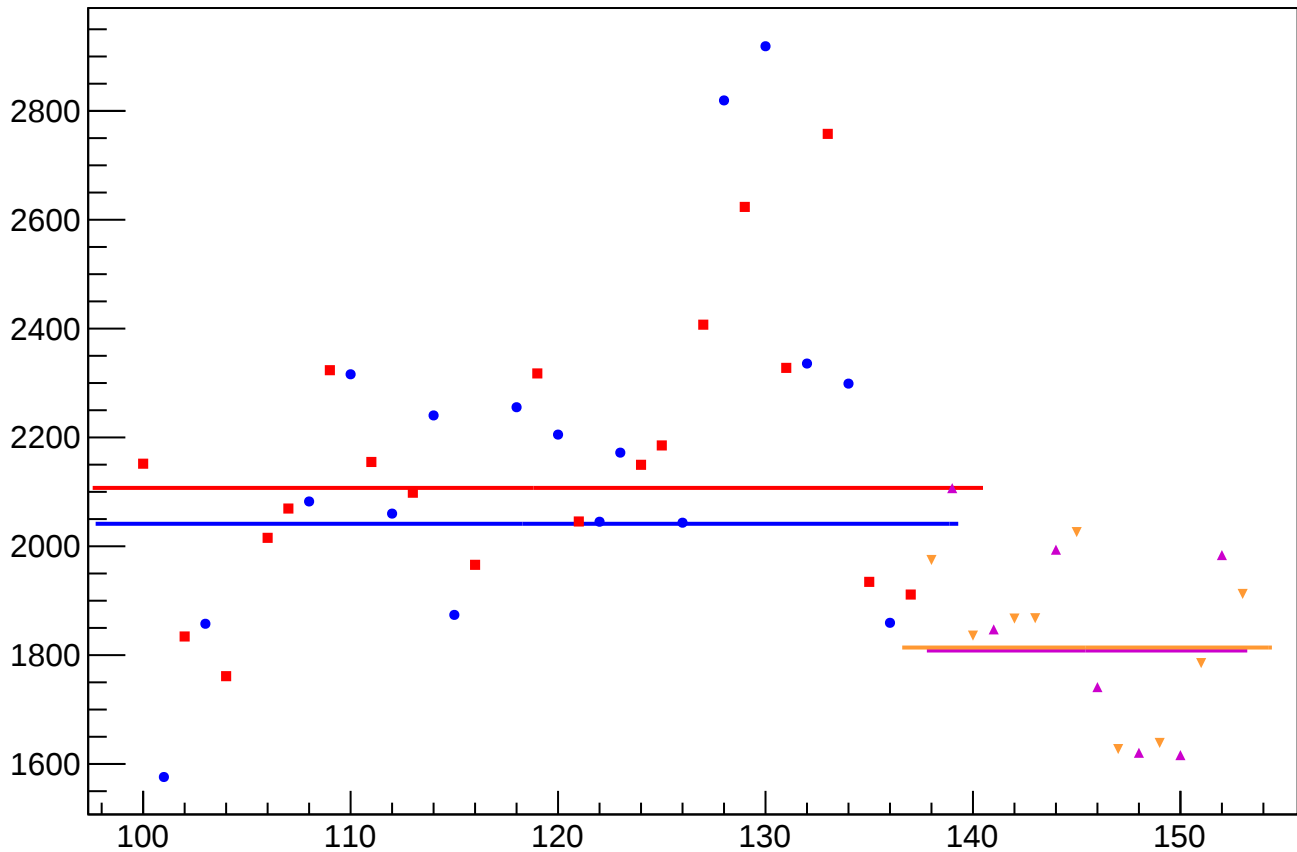
Left In: -2300.897+/-753.997  $\chi^2/\text{NDF}$ : 6.6/6

+ sign 1609.799+/-528.509  $\chi^2/\text{NDF}$ : 26.3/25

All: -400.729+/-380.187  $\chi^2/\text{NDF}$ : 74.6/51

- sign -2556.893+/-547.316  $\chi^2/\text{NDF}$ : 18.3/25

# asym\_usr\_rms vs Slug



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

Left Out: 1813.957+/-0.498  $\chi^2/\text{NDF}$ : 72263.1/8

Right Out: 2107.277+/-0.563  $\chi^2/\text{NDF}$ : 196781.3/18

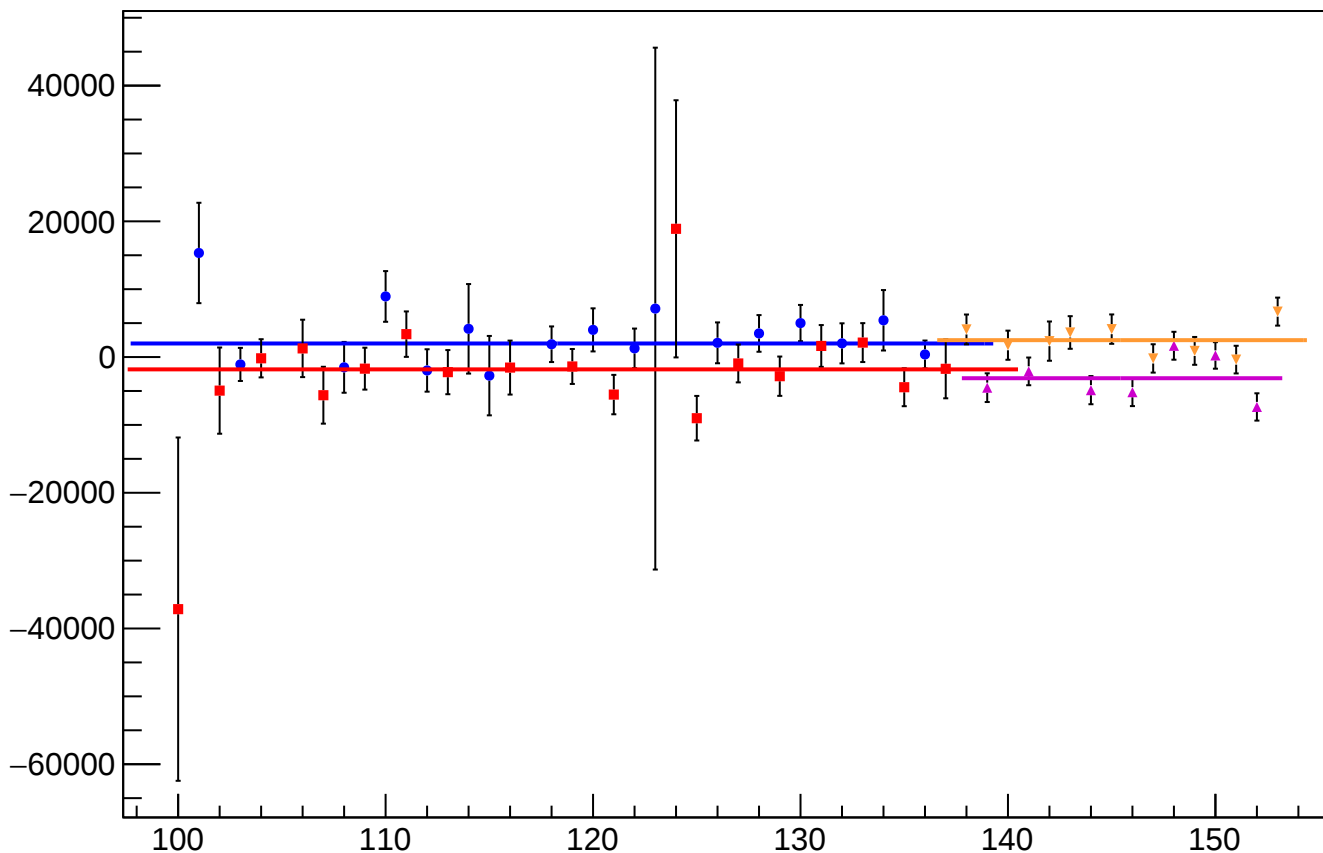
Left In: 1808.490+/-0.533  $\chi^2/\text{NDF}$ : 109001.2/6

+ sign 1913.287+/-0.374  $\chi^2/\text{NDF}$ : 501780.6/25

All: 1930.926+/-0.269  $\chi^2/\text{NDF}$ : 960759.3/51

- sign 1949.843+/-0.387  $\chi^2/\text{NDF}$ : 454361.7/25

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



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

Left Out: 2489.230+/-730.615  $\chi^2/\text{NDF}$ : 9.8/8

Right Out: -1815.578+/-781.463  $\chi^2/\text{NDF}$ : 18.2/18

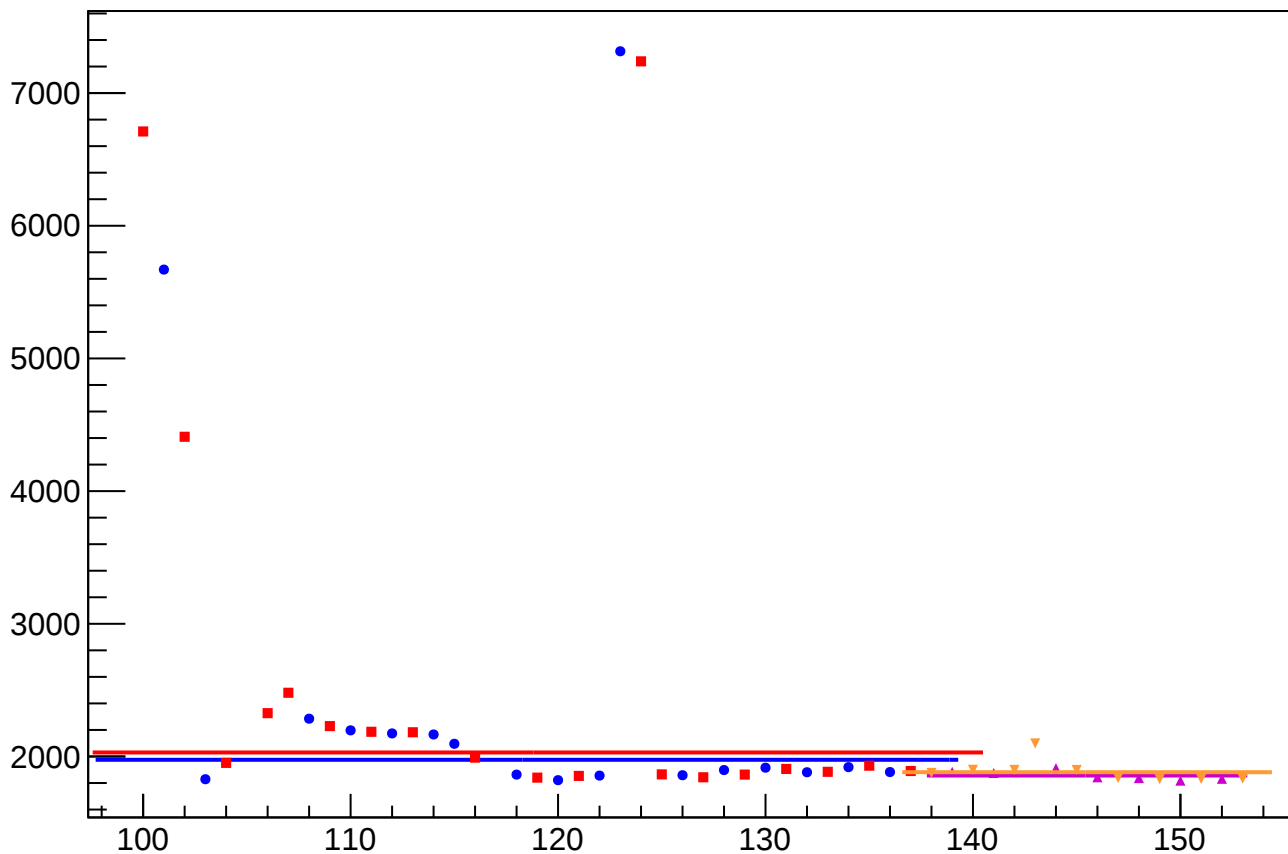
Left In: -3119.486+/-771.797  $\chi^2/\text{NDF}$ : 15.2/6

+ sign 2261.048+/-533.741  $\chi^2/\text{NDF}$ : 24.8/25

All: -40.007+/-382.736  $\chi^2/\text{NDF}$ : 97.9/51

- sign -2475.646+/-549.128  $\chi^2/\text{NDF}$ : 34.8/25

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



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

Left Out: 1881.560+/-0.517  $\chi^2/\text{NDF}$ : 21165.7/8

Right Out: 2030.342+/-0.553  $\chi^2/\text{NDF}$ : 603923.5/18

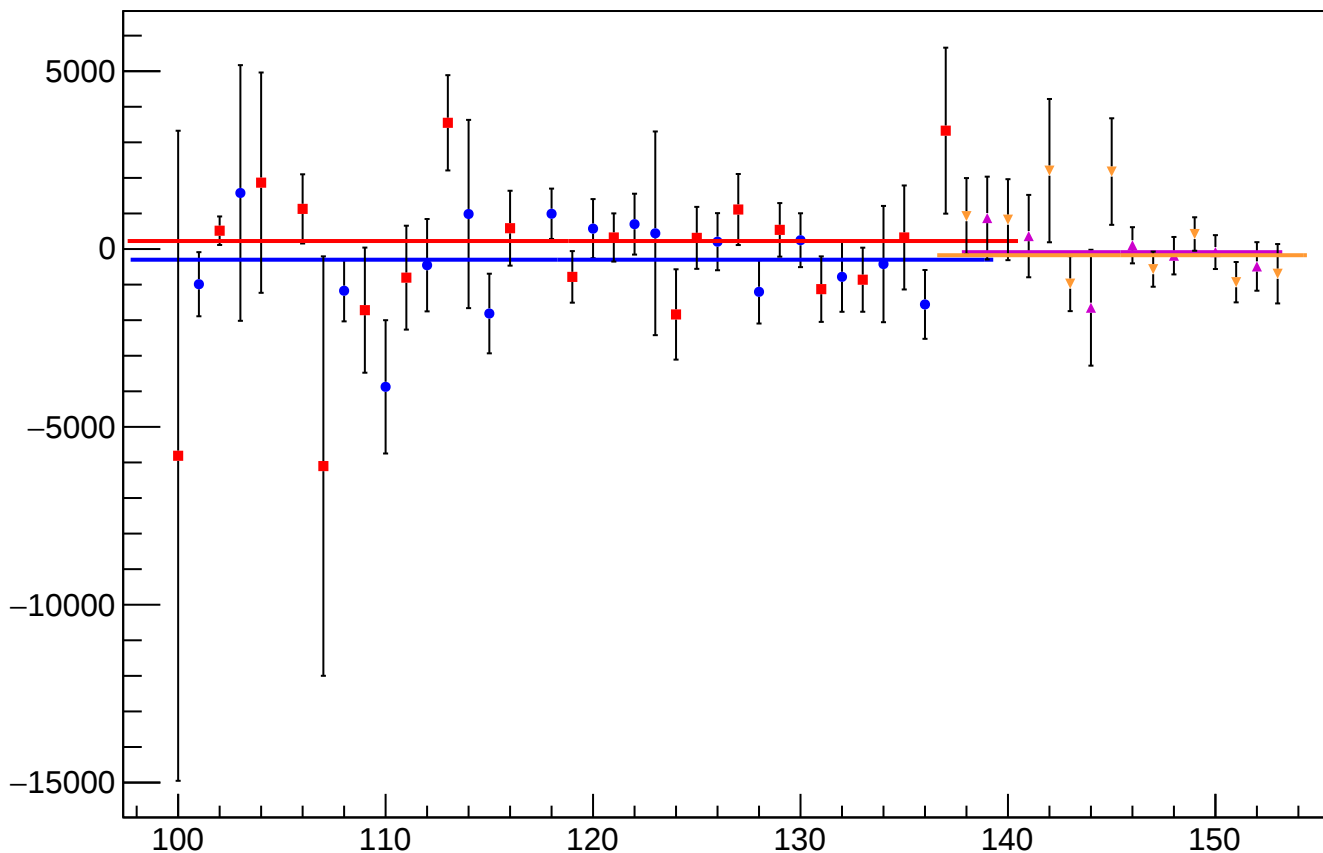
Left In: 1856.467+/-0.546  $\chi^2/\text{NDF}$ : 3251.8/6

+ sign 1925.183+/-0.377  $\chi^2/\text{NDF}$ : 636287.6/25

All: 1933.510+/-0.271  $\chi^2/\text{NDF}$ : 1294586.9/51

- sign 1942.323+/-0.388  $\chi^2/\text{NDF}$ : 657297.4/25

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



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

Left Out: -173.441 $\pm$ 241.402  $\chi^2$ /NDF:11.2/8

Right Out: 225.432 $\pm$ 215.564  $\chi^2$ /NDF: 22.2/18

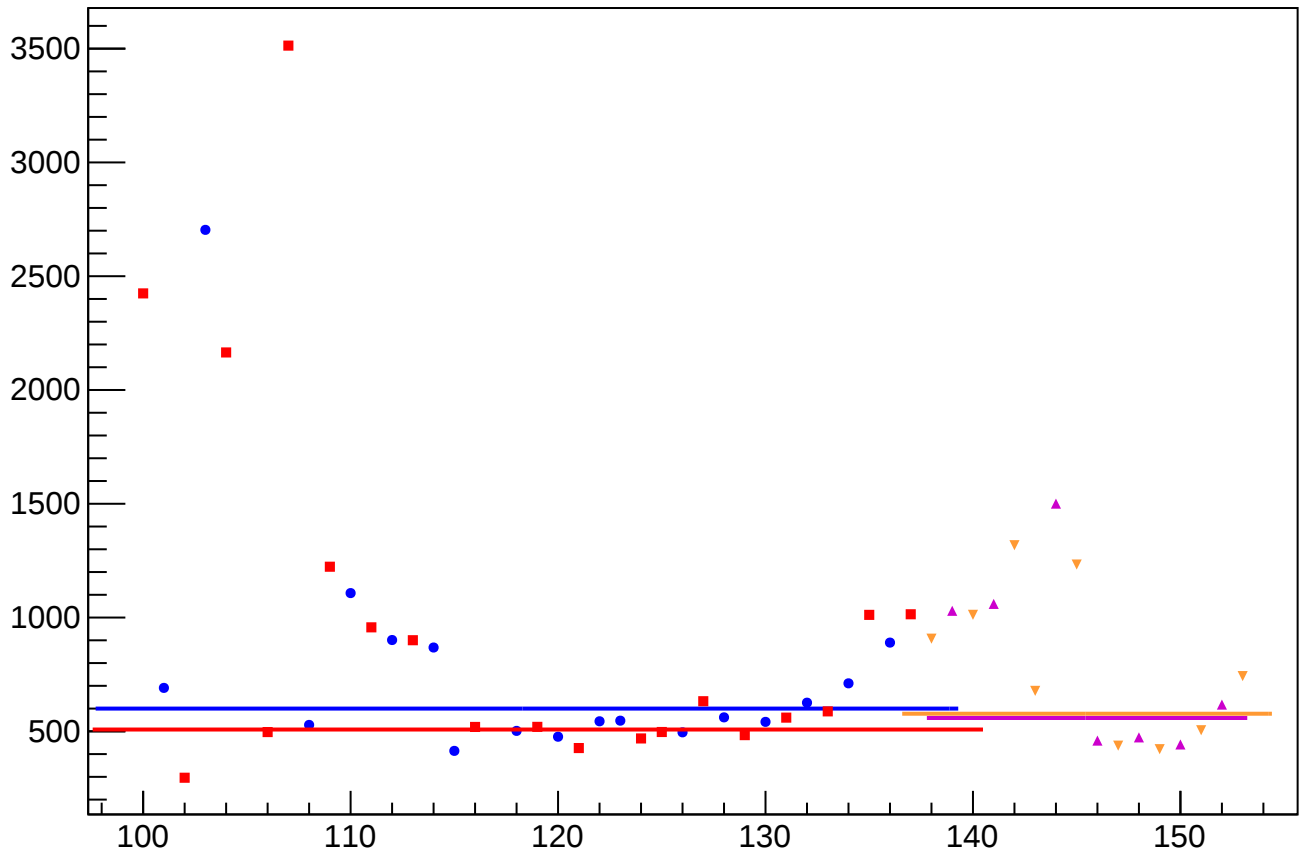
Left In: -87.944 $\pm$ 250.897  $\chi^2$ /NDF:2.3/6

+ sign -235.364 $\pm$ 172.510  $\chi^2$ /NDF: 28.6/25

All: -62.732 $\pm$ 118.671  $\chi^2$ /NDF: 55.9/51

- sign 92.346 $\pm$ 163.504  $\chi^2$ /NDF: 25.4/25

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



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

Left Out: 577.387+/-0.171  $\chi^2/\text{NDF}$ : 1659913.5/8

Right Out: 507.943+/-0.152  $\chi^2/\text{NDF}$ : 2848884.0/18

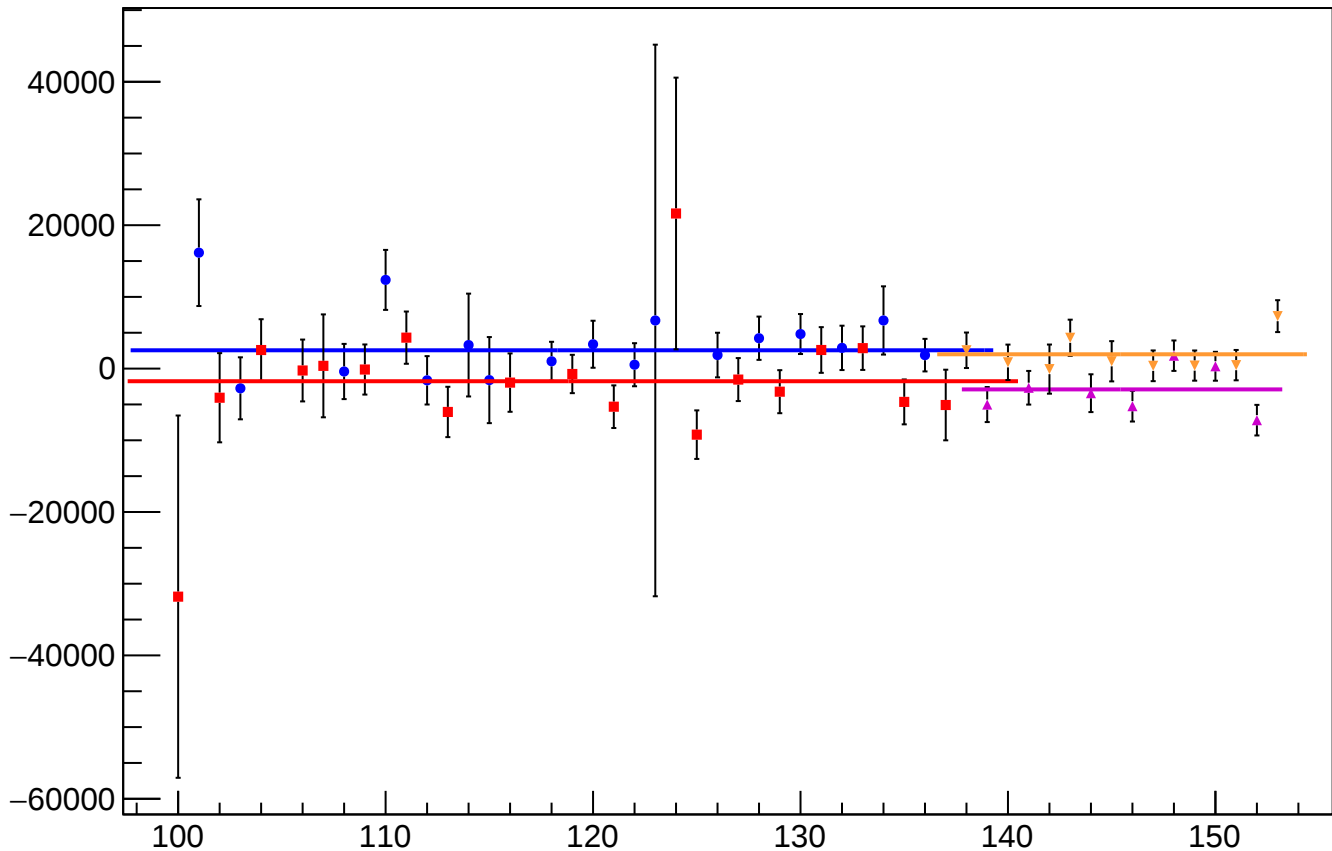
Left In: 558.594+/-0.177  $\chi^2/\text{NDF}$ : 1634363.6/6

+ sign 588.429+/-0.122  $\chi^2/\text{NDF}$ : 3049514.4/25

All: 557.362+/-0.084  $\chi^2/\text{NDF}$ : 7702791.3/51

- sign 529.454+/-0.116  $\chi^2/\text{NDF}$ : 4530142.8/25

# asym\_at1\_avg\_mean vs Slug



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

Left Out: 1997.017 $\pm$ 799.330  $\chi^2$ /NDF:8.9/8

Right Out: -1761.499 $\pm$ 854.672  $\chi^2$ /NDF: 20.9/18

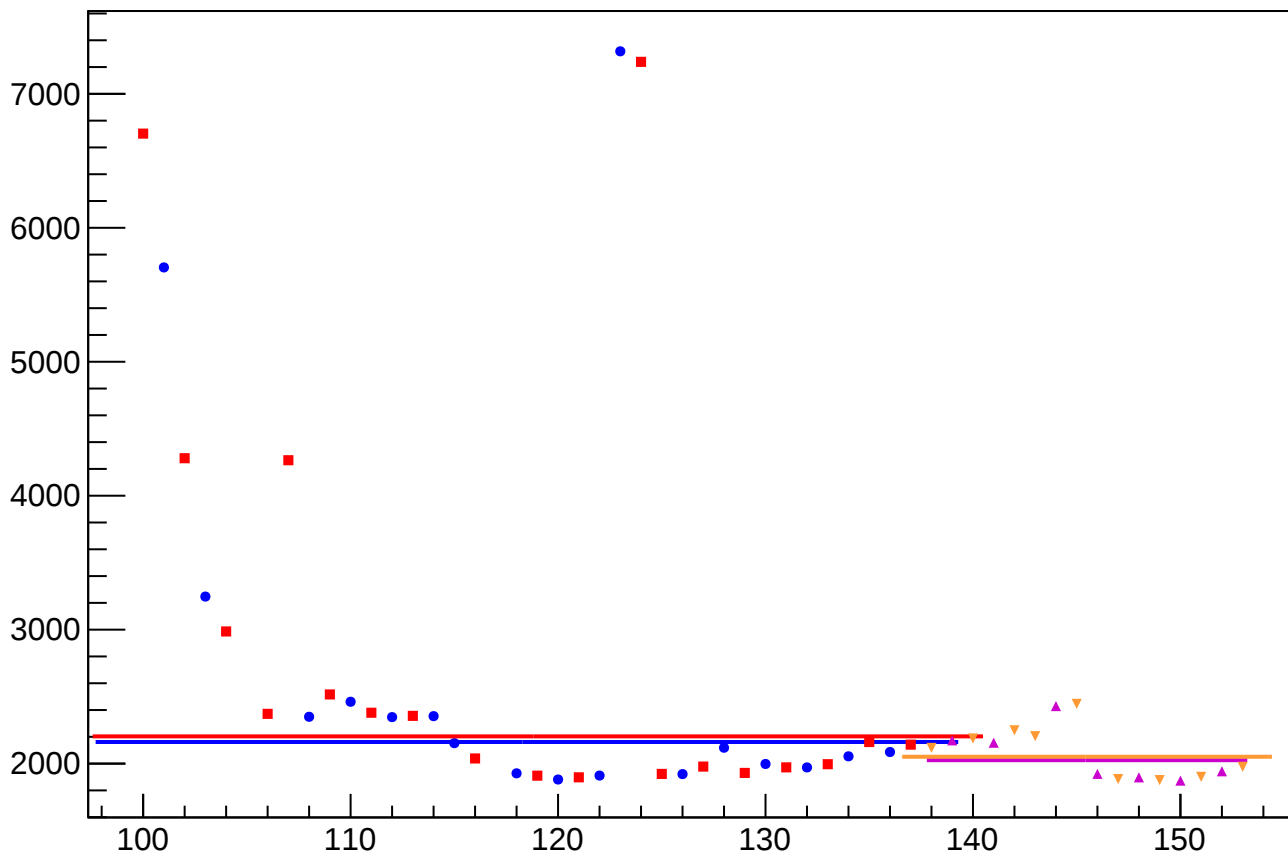
Left In: -2902.091 $\pm$ 845.389  $\chi^2$ /NDF:13.5/6

+ sign 2255.337 $\pm$ 585.141  $\chi^2$ /NDF: 24.9/25

All: 20.197 $\pm$ 419.264  $\chi^2$ /NDF: 90.2/51

- sign -2338.023 $\pm$ 601.036  $\chi^2$ /NDF: 35.4/25

# asym\_at1\_avg\_rms vs Slug



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

Left Out: 2051.268+/-0.565  $\chi^2/\text{NDF}$ : 99310.3/8

Right Out: 2203.343+/-0.604  $\chi^2/\text{NDF}$ : 797393.2/18

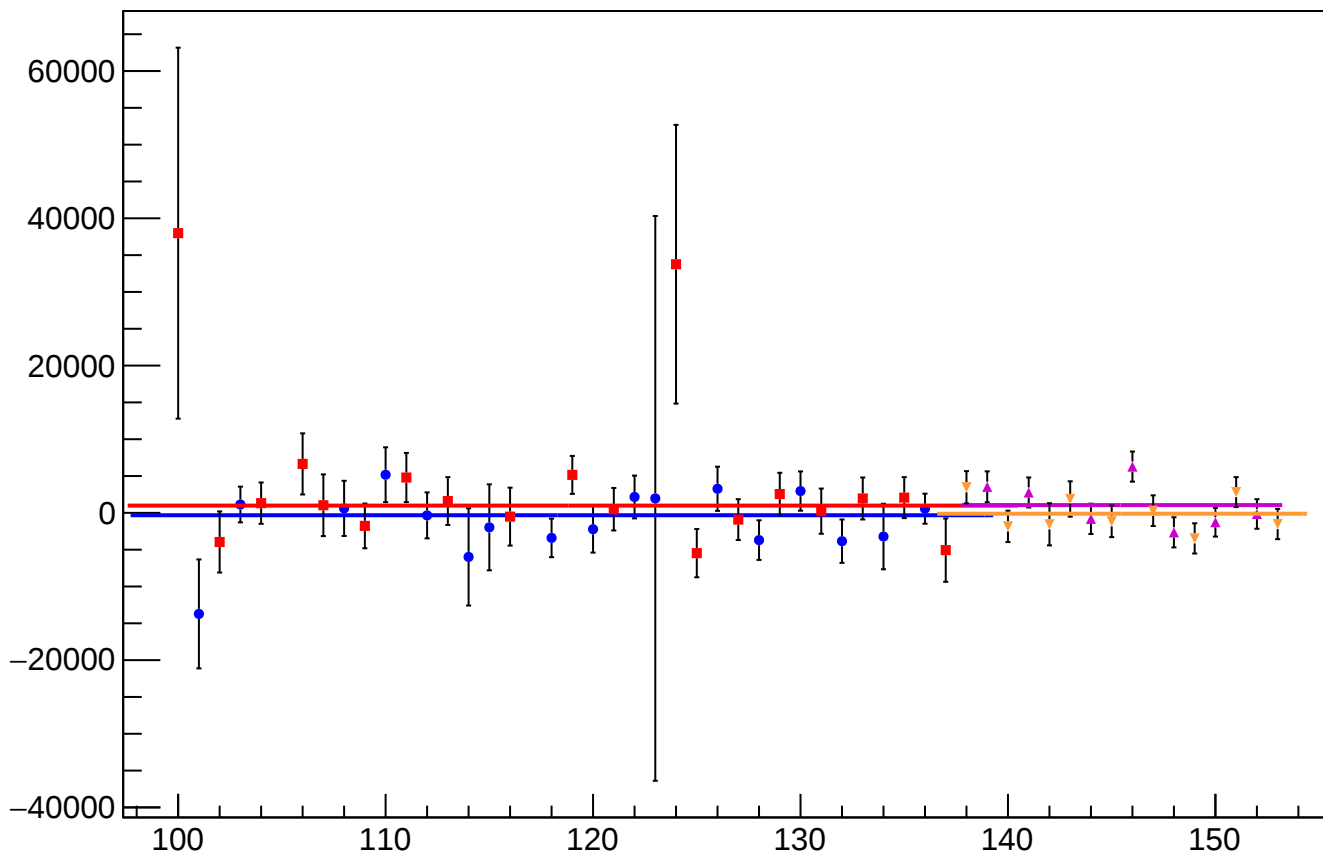
Left In: 2025.586+/-0.598  $\chi^2/\text{NDF}$ : 86750.8/6

+ sign 2102.391+/-0.414  $\chi^2/\text{NDF}$ : 828190.6/25

All: 2107.794+/-0.296  $\chi^2/\text{NDF}$ : 1756414.0/51

- sign 2113.494+/-0.425  $\chi^2/\text{NDF}$ : 927873.0/25

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



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

Left Out:  $-117.893 \pm 728.232$   $\chi^2/\text{NDF}$ : 9.8/8

Right Out:  $985.900 \pm 769.924$   $\chi^2/\text{NDF}$ : 20.4/18

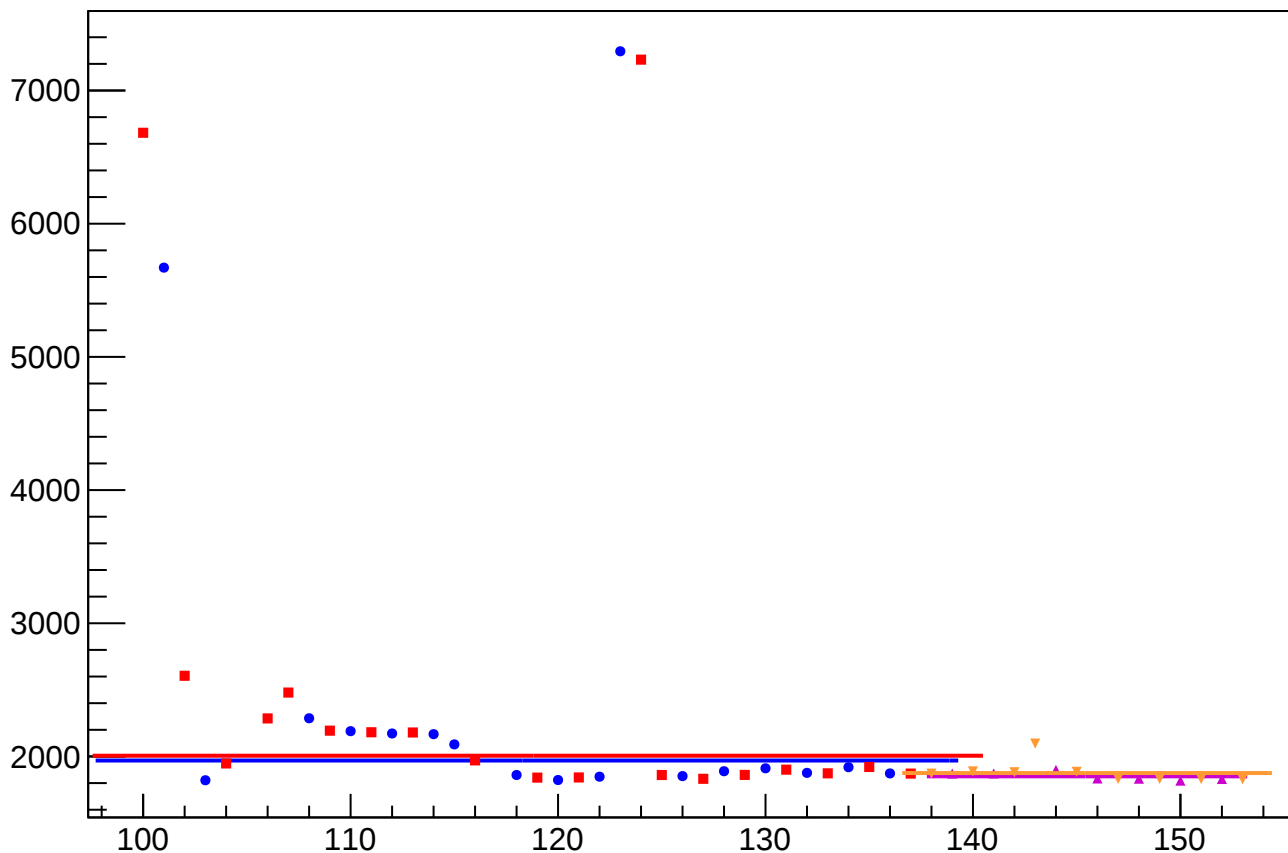
Left In:  $1055.935 \pm 769.376$   $\chi^2/\text{NDF}$ : 14.5/6

+ sign  $-213.823 \pm 532.143$   $\chi^2/\text{NDF}$ : 25.5/25

All:  $389.702 \pm 380.481$   $\chi^2/\text{NDF}$ : 63.0/51

- sign  $1020.943 \pm 544.225$   $\chi^2/\text{NDF}$ : 34.9/25

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



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

Left Out:  $1875.456 \pm 0.515$   $\chi^2/\text{NDF}$ : 21004.6/8

Right Out:  $2005.551 \pm 0.544$   $\chi^2/\text{NDF}$ : 359644.9/18

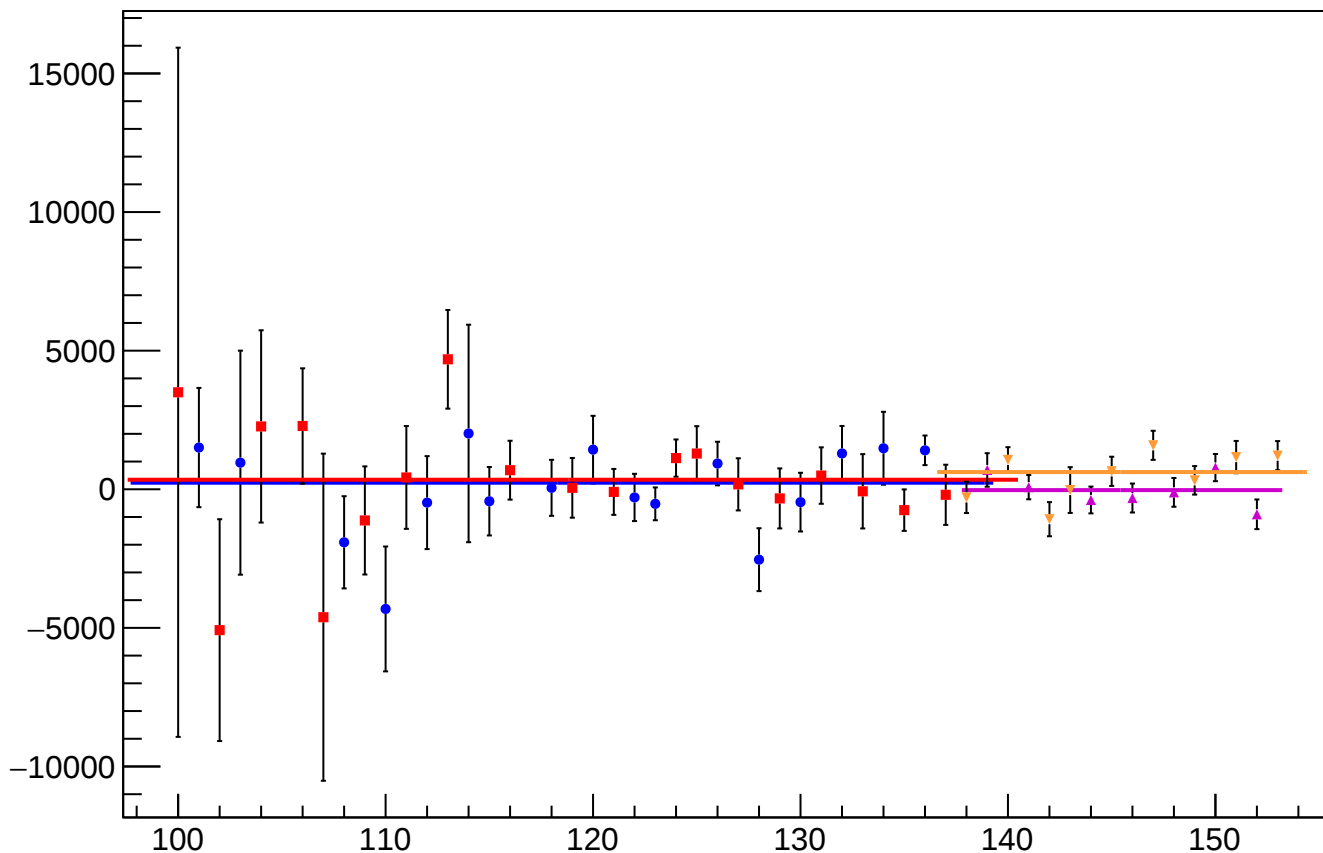
Left In:  $1850.772 \pm 0.544$   $\chi^2/\text{NDF}$ : 2529.9/6

+ sign  $1919.281 \pm 0.376$   $\chi^2/\text{NDF}$ : 639357.2/25

All:  $1923.595 \pm 0.269$   $\chi^2/\text{NDF}$ : 1042243.3/51

- sign  $1928.107 \pm 0.385$   $\chi^2/\text{NDF}$ : 402617.2/25

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



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

Left Out: 621.235 $\pm$ 183.805  $\chi^2$ /NDF:17.6/8

Right Out: 344.268 $\pm$ 268.517  $\chi^2$ /NDF: 16.0/18

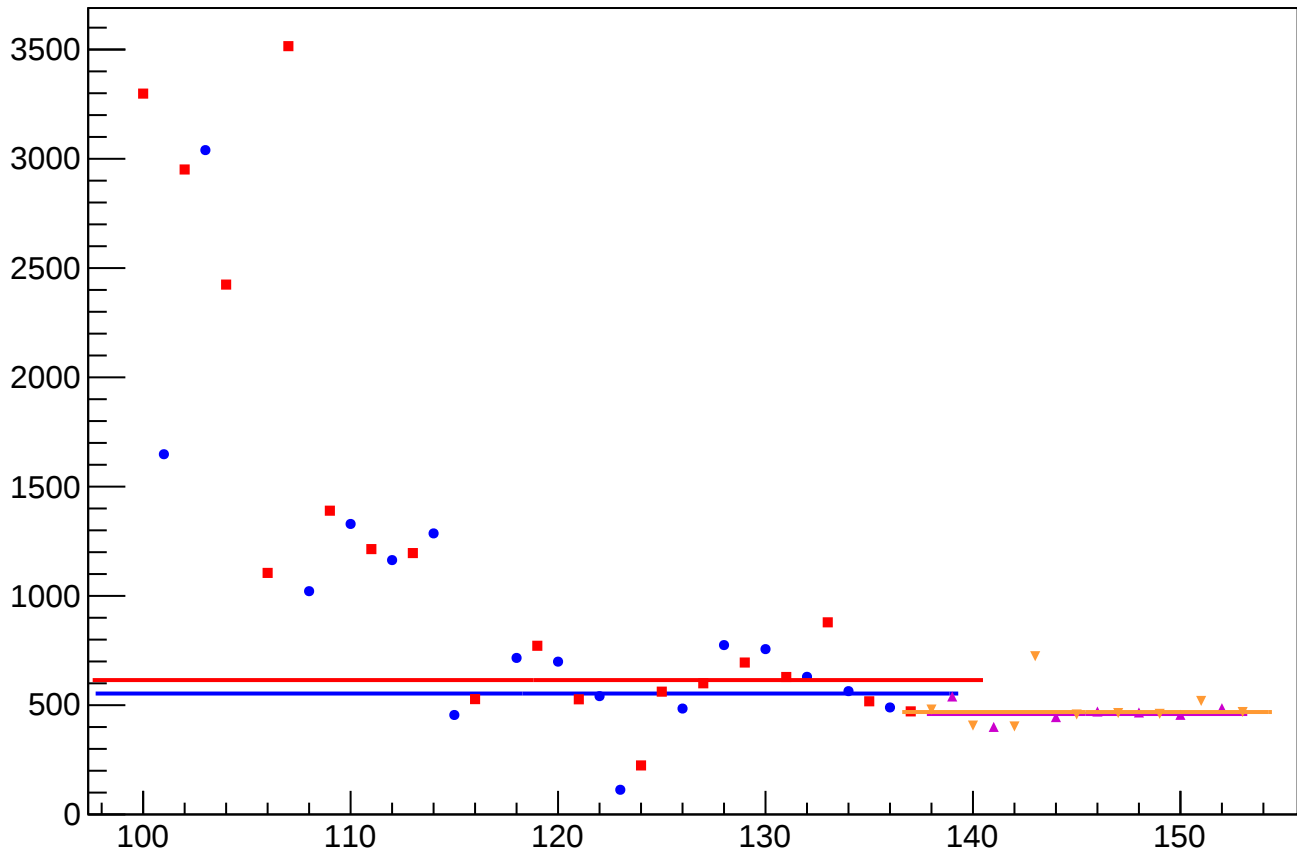
Left In: -30.497 $\pm$ 191.524  $\chi^2$ /NDF:7.8/6

+ sign 485.385 $\pm$ 147.796  $\chi^2$ /NDF: 43.0/25

All: 301.046 $\pm$ 107.266  $\chi^2$ /NDF: 71.4/51

- sign 95.874 $\pm$ 155.925  $\chi^2$ /NDF: 25.0/25

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



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

Left Out: 468.670+/-0.130  $\chi^2/\text{NDF}$ : 268442.0/8

Right Out: 614.829+/-0.190  $\chi^2/\text{NDF}$ : 3569607.7/18

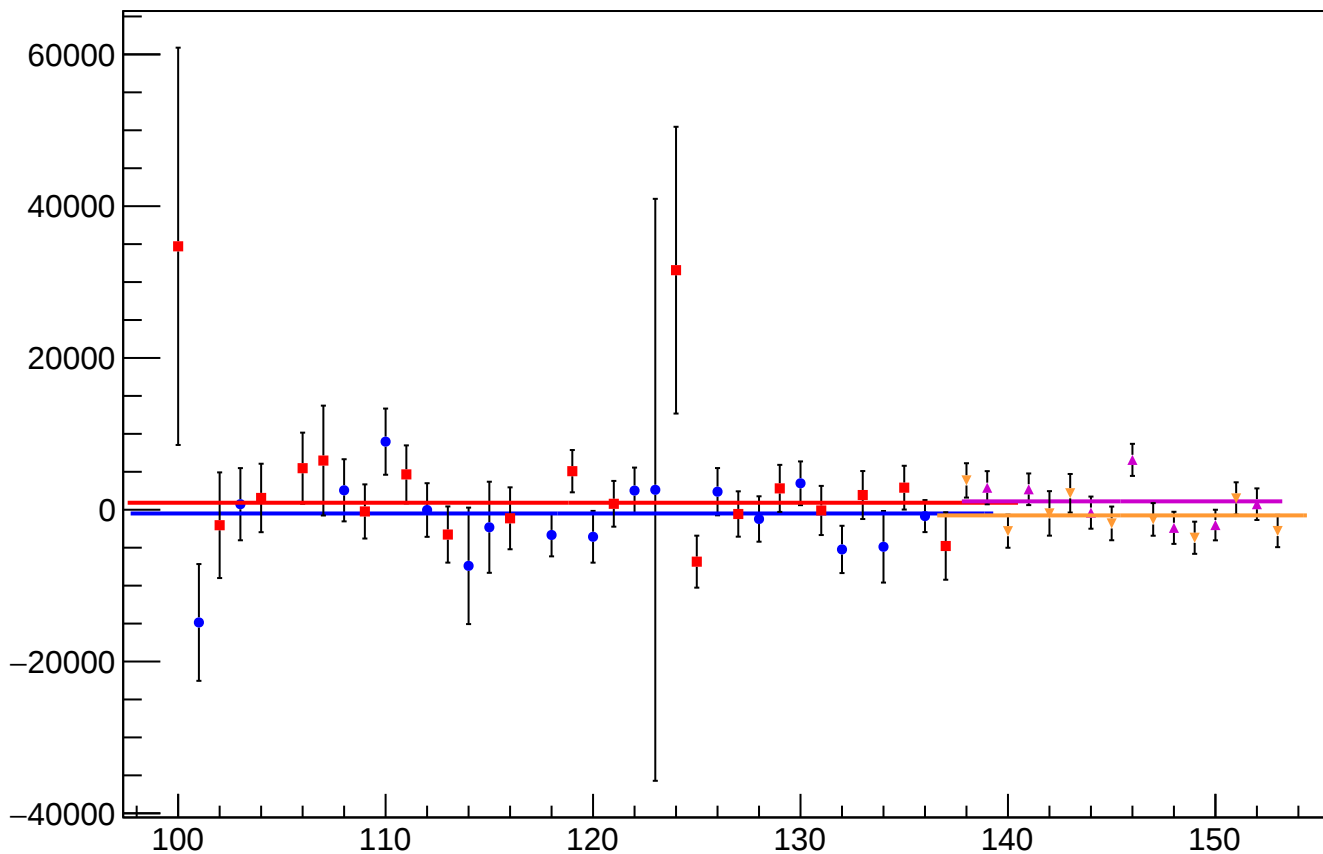
Left In: 459.492+/-0.135  $\chi^2/\text{NDF}$ : 79527.8/6

+ sign 498.574+/-0.105  $\chi^2/\text{NDF}$ : 3830975.3/25

All: 504.867+/-0.076  $\chi^2/\text{NDF}$ : 7931403.6/51

- sign 511.872+/-0.110  $\chi^2/\text{NDF}$ : 4092766.2/25

# asym\_at1\_dd\_mean vs Slug



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

Left Out: -744.971+/-753.447  $\chi^2$ /NDF:10.7/8

Right Out: 921.907+/-868.662  $\chi^2$ /NDF: 18.9/18

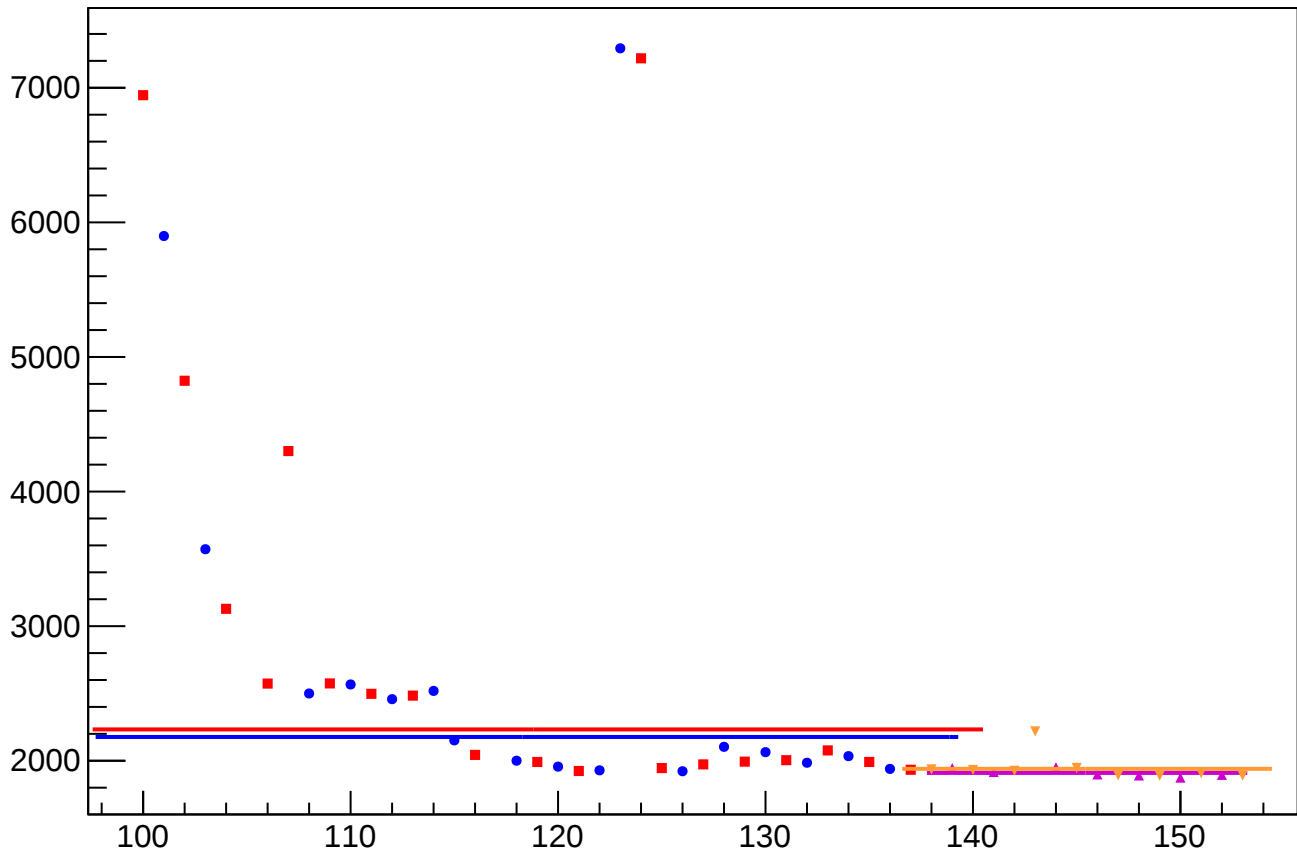
Left In: 1105.089+/-793.768  $\chi^2$ /NDF:13.6/6

+ sign -636.241+/-568.985  $\chi^2$ /NDF: 29.3/25

All: 168.369+/-408.206  $\chi^2$ /NDF: 65.9/51

- sign 1021.734+/-585.971  $\chi^2$ /NDF: 32.6/25

# asym\_at1\_dd\_rms vs Slug



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

Left Out: 1940.159 $\pm$ 0.533  $\chi^2/\text{NDF}$ : 27904.0/8

Right Out: 2232.883 $\pm$ 0.614  $\chi^2/\text{NDF}$ : 890552.7/18

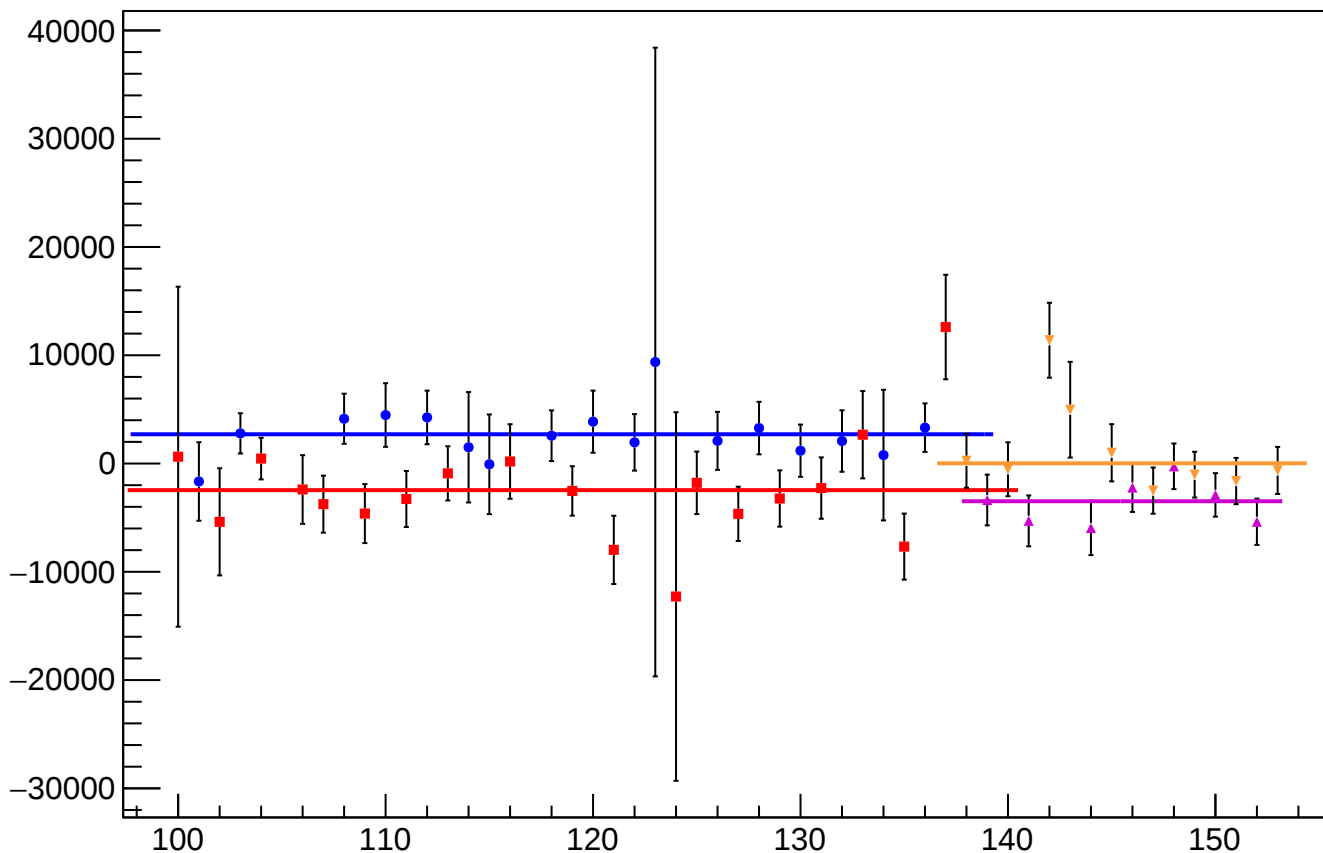
Left In: 1909.634 $\pm$ 0.561  $\chi^2/\text{NDF}$ : 2282.4/6

+ sign 2041.823 $\pm$ 0.402  $\chi^2/\text{NDF}$ : 915320.4/25

All: 2049.055 $\pm$ 0.289  $\chi^2/\text{NDF}$ : 1959748.9/51

- sign 2056.726 $\pm$ 0.414  $\chi^2/\text{NDF}$ : 1043762.6/25

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



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

Left Out: 22.639 $\pm$ 823.591  $\chi^2$ /NDF:14.6/8

Right Out: -2458.734 $\pm$ 682.630  $\chi^2$ /NDF: 23.2/18

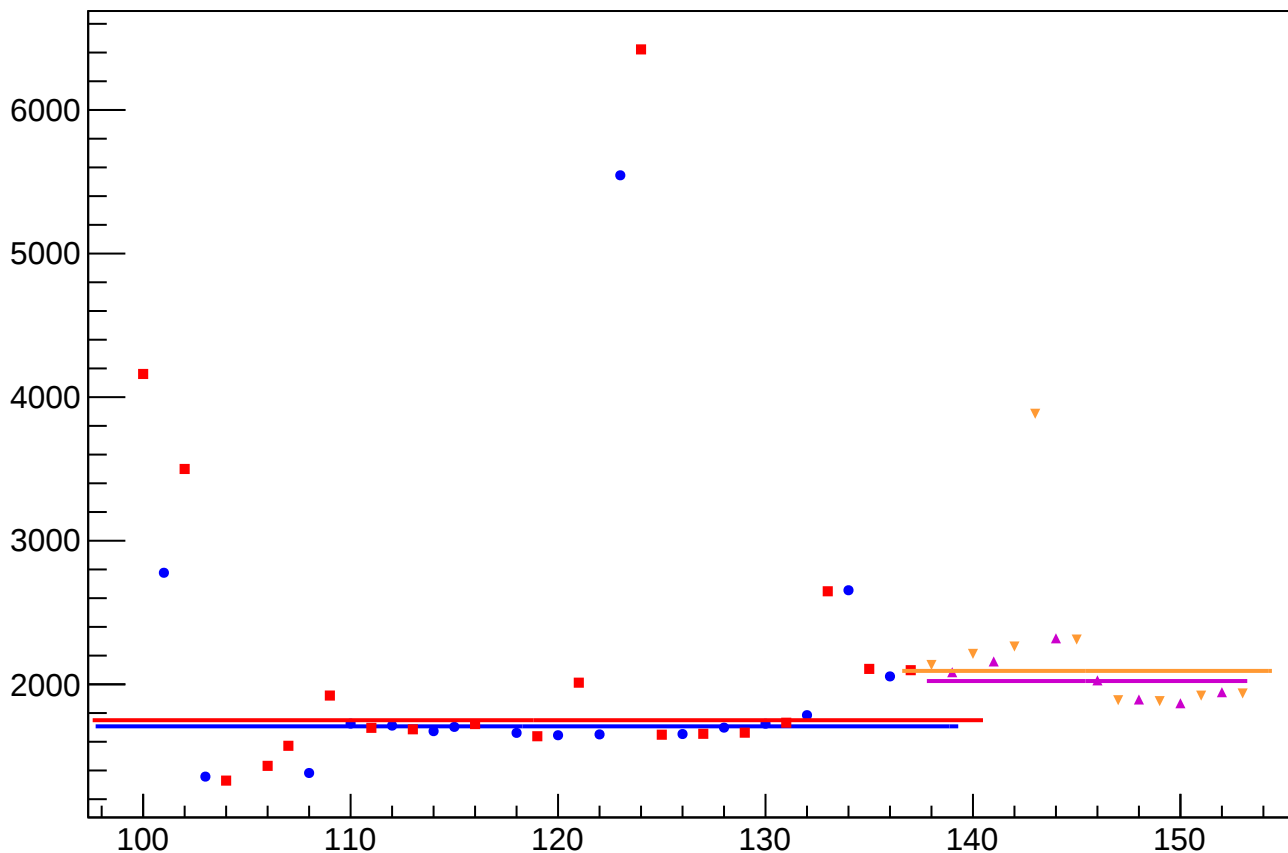
Left In: -3481.019 $\pm$ 841.666  $\chi^2$ /NDF:5.1/6

+ sign 1628.409 $\pm$ 521.553  $\chi^2$ /NDF: 24.9/25

All: -581.144 $\pm$ 371.805  $\chi^2$ /NDF: 90.6/51

- sign -2864.366 $\pm$ 530.176  $\chi^2$ /NDF: 29.2/25

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



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

Left Out: 2093.453+/-0.582  $\chi^2/\text{NDF}$ : 413422.9/8

Right Out: 1750.114+/-0.483  $\chi^2/\text{NDF}$ : 746498.0/18

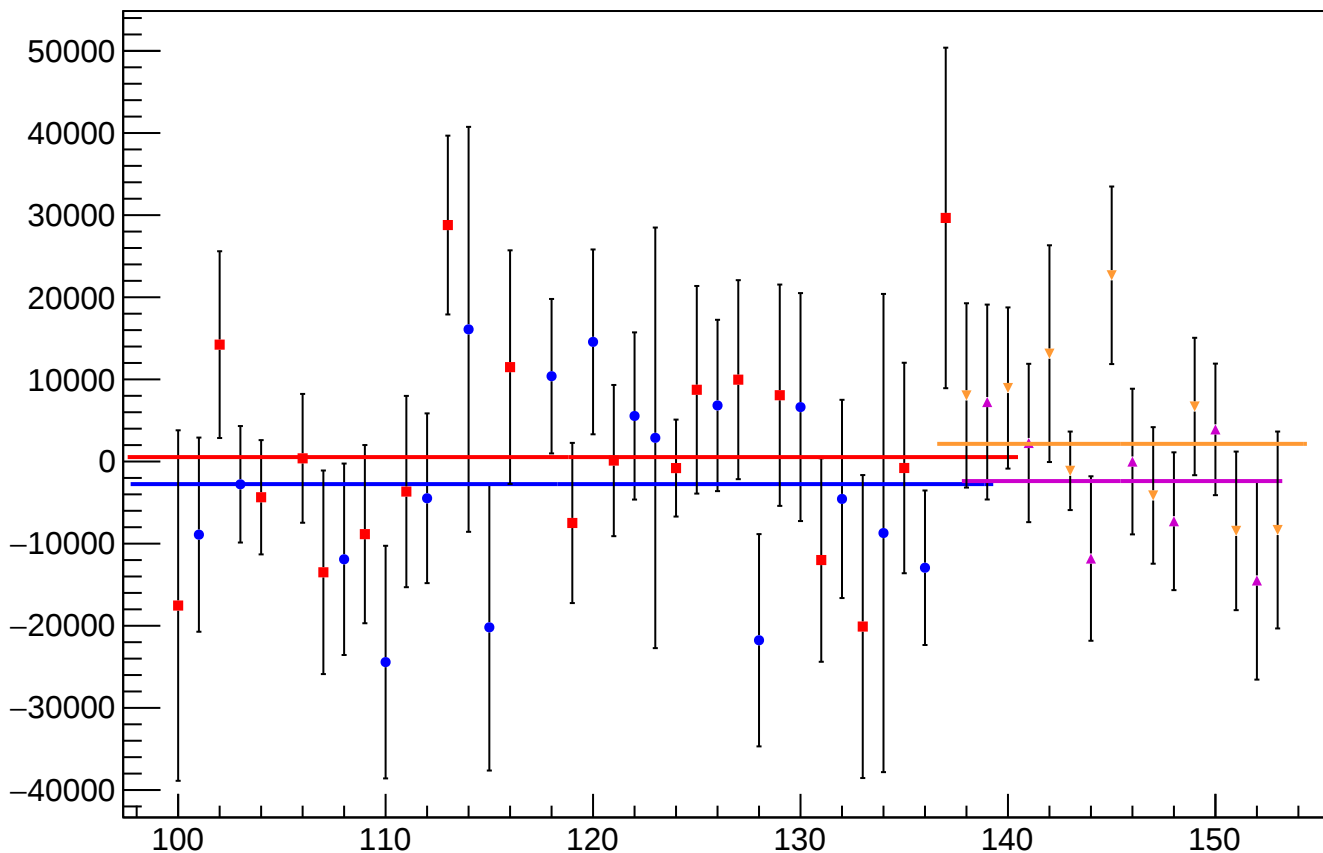
Left In: 2022.924+/-0.595  $\chi^2/\text{NDF}$ : 58291.4/6

+ sign 1862.209+/-0.369  $\chi^2/\text{NDF}$ : 1098822.7/25

All: 1860.299+/-0.263  $\chi^2/\text{NDF}$ : 2030441.0/51

- sign 1858.326+/-0.375  $\chi^2/\text{NDF}$ : 931563.8/25

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



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

Left Out: 2150.175 $\pm$ 2853.287  $\chi^2/\text{NDF}$ : 8.4/8

Right Out: 538.445 $\pm$ 2424.977  $\chi^2/\text{NDF}$ : 18.5/18

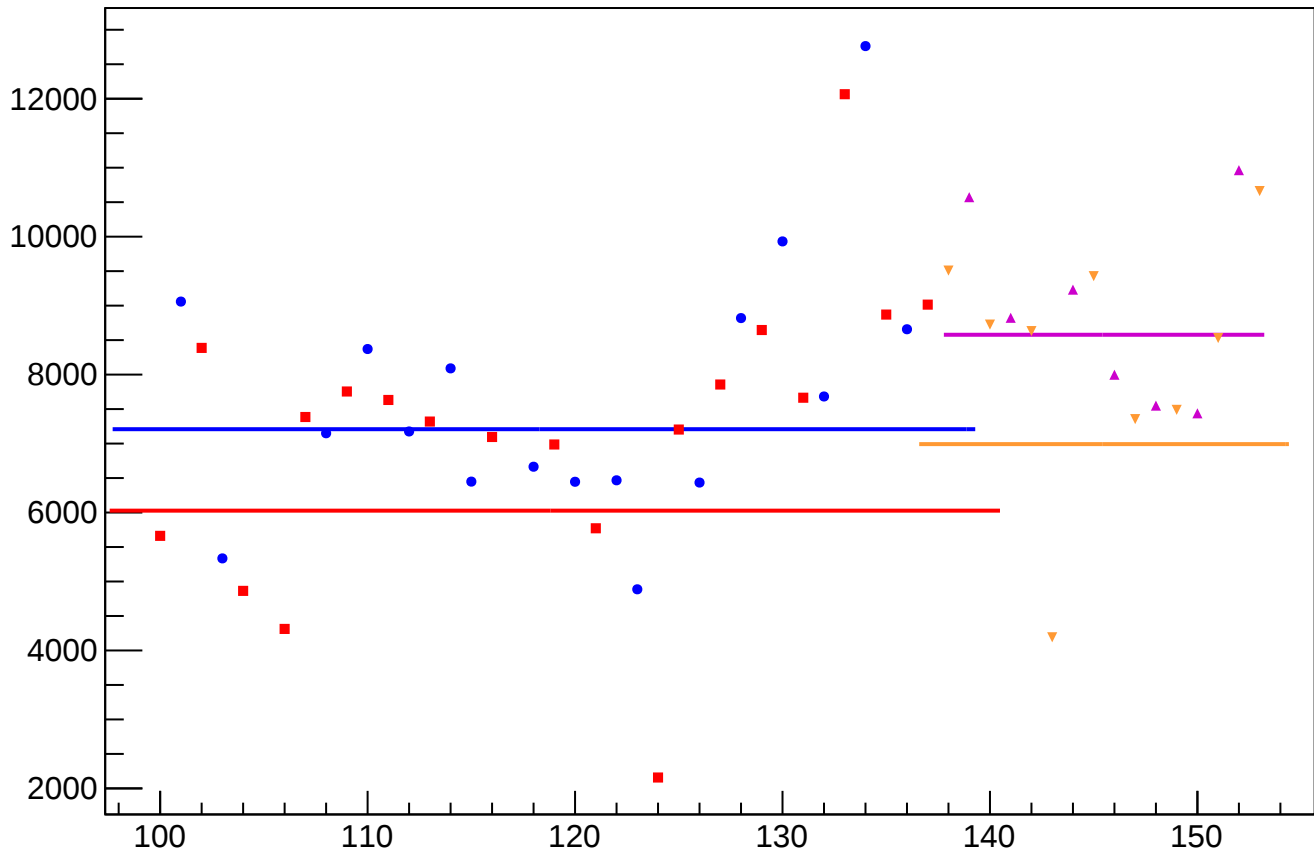
Left In: -2380.787 $\pm$ 3598.979  $\chi^2/\text{NDF}$ : 3.8/6

+ sign -309.643 $\pm$ 2013.718  $\chi^2/\text{NDF}$ : 24.4/25

All: -341.395 $\pm$ 1422.974  $\chi^2/\text{NDF}$ : 47.2/51

- sign -373.063 $\pm$ 2011.062  $\chi^2/\text{NDF}$ : 22.7/25

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



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

Left Out: 6992.020+/-2.018  $\chi^2/\text{NDF}$ : 1230954.8/8

Right Out: 6027.409+/-1.715  $\chi^2/\text{NDF}$ : 1798157.6/18

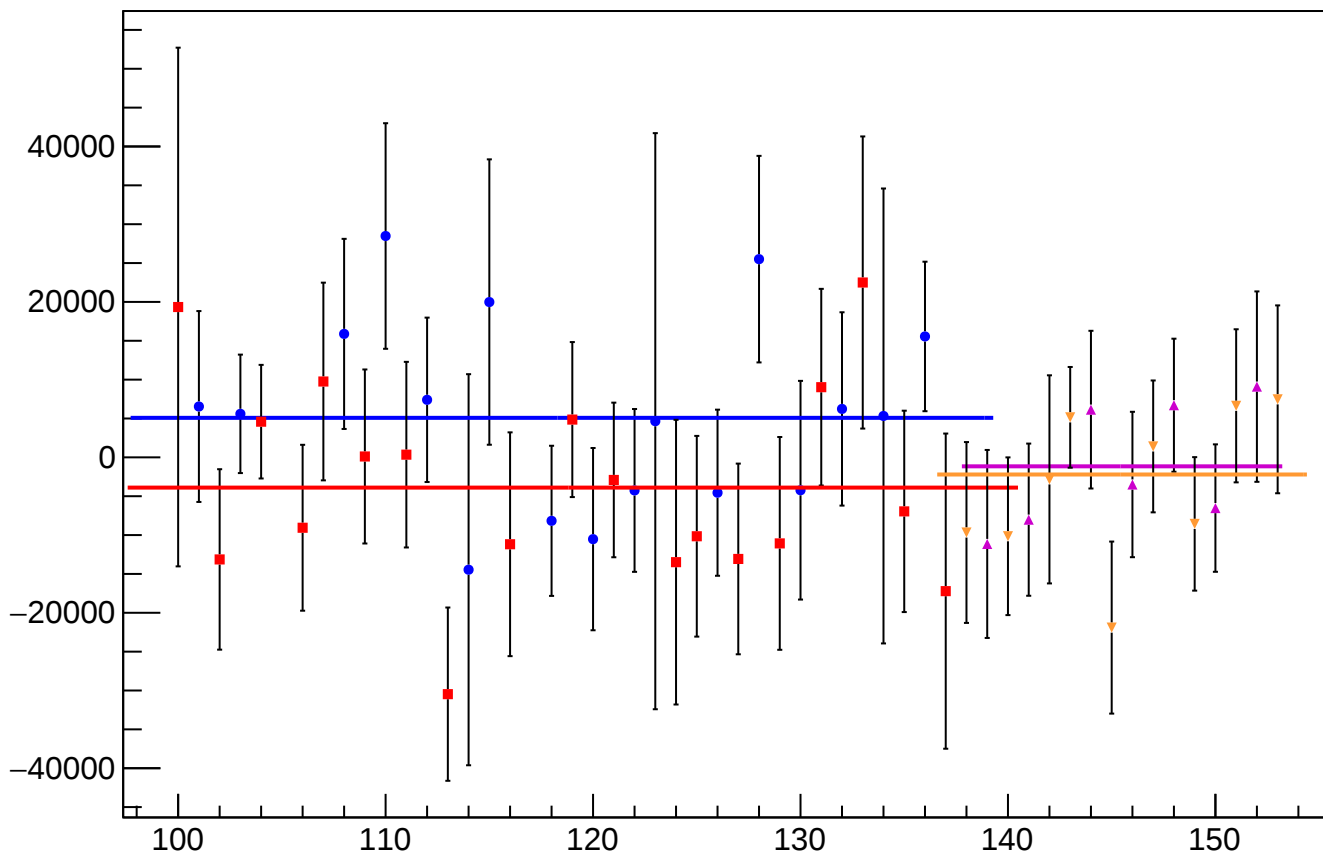
Left In: 8577.562+/-2.545  $\chi^2/\text{NDF}$ : 223490.3/6

+ sign 7100.597+/-1.424  $\chi^2/\text{NDF}$ : 1730474.8/25

All: 6961.953+/-1.006  $\chi^2/\text{NDF}$ : 4461678.4/51

- sign 6823.675+/-1.422  $\chi^2/\text{NDF}$ : 2712267.6/25

# asym\_at2\_avg\_mean vs Slug



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

Left Out: -2206.039 $\pm$ 3173.926  $\chi^2$ /NDF: 7.7/8

Right Out: -3892.007 $\pm$ 2790.271  $\chi^2$ /NDF: 15.7/18

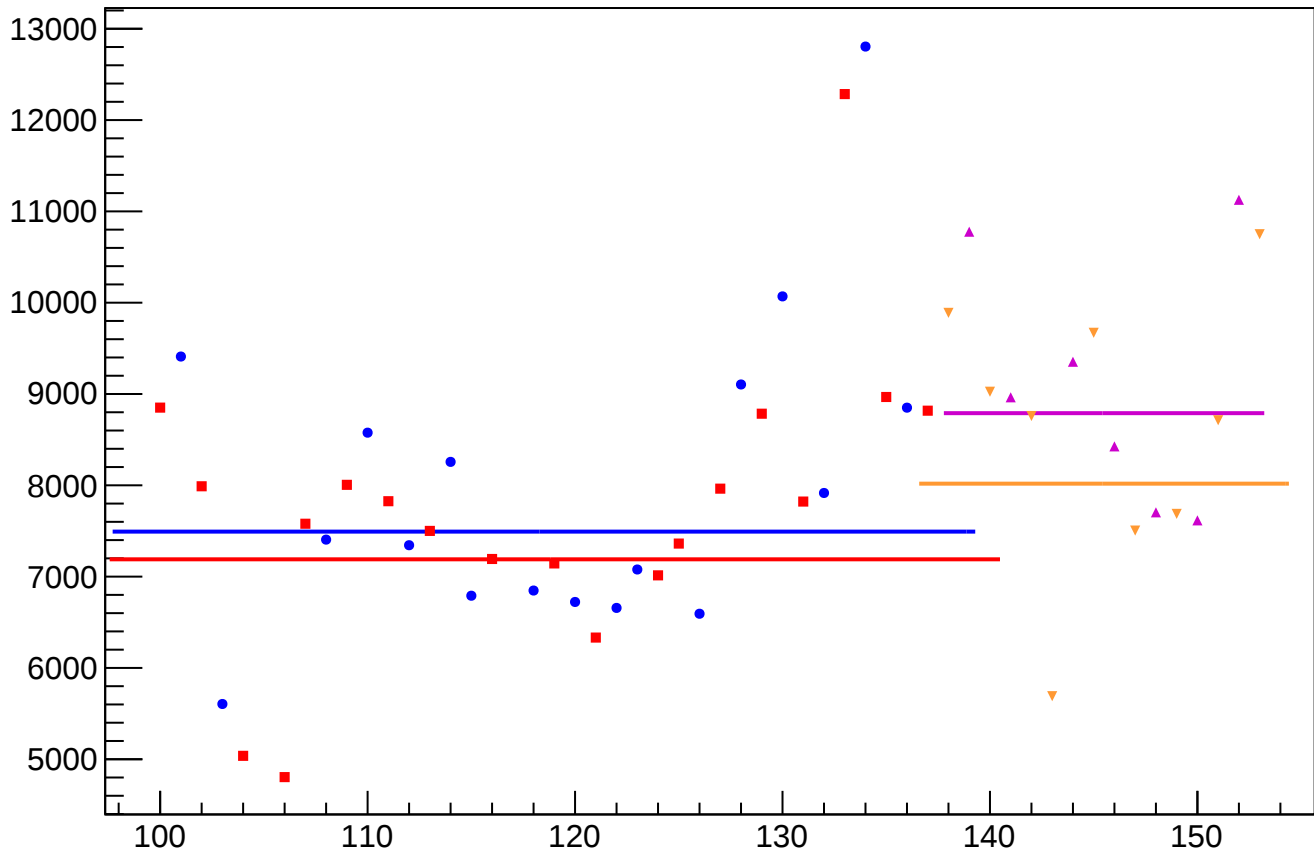
Left In: -1155.034 $\pm$ 3686.151  $\chi^2$ /NDF: 3.7/6

+ sign 1699.086 $\pm$ 2162.854  $\chi^2$ /NDF: 24.4/25

All: -533.158 $\pm$ 1550.793  $\chi^2$ /NDF: 46.4/51

- sign -2895.016 $\pm$ 2224.762  $\chi^2$ /NDF: 19.7/25

# asym\_at2\_avg\_rms vs Slug



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

Left Out:  $8018.071 \pm 2.244$   $\chi^2/\text{NDF}$ : 502632.4/8

Right Out:  $7189.504 \pm 1.973$   $\chi^2/\text{NDF}$ : 560893.8/18

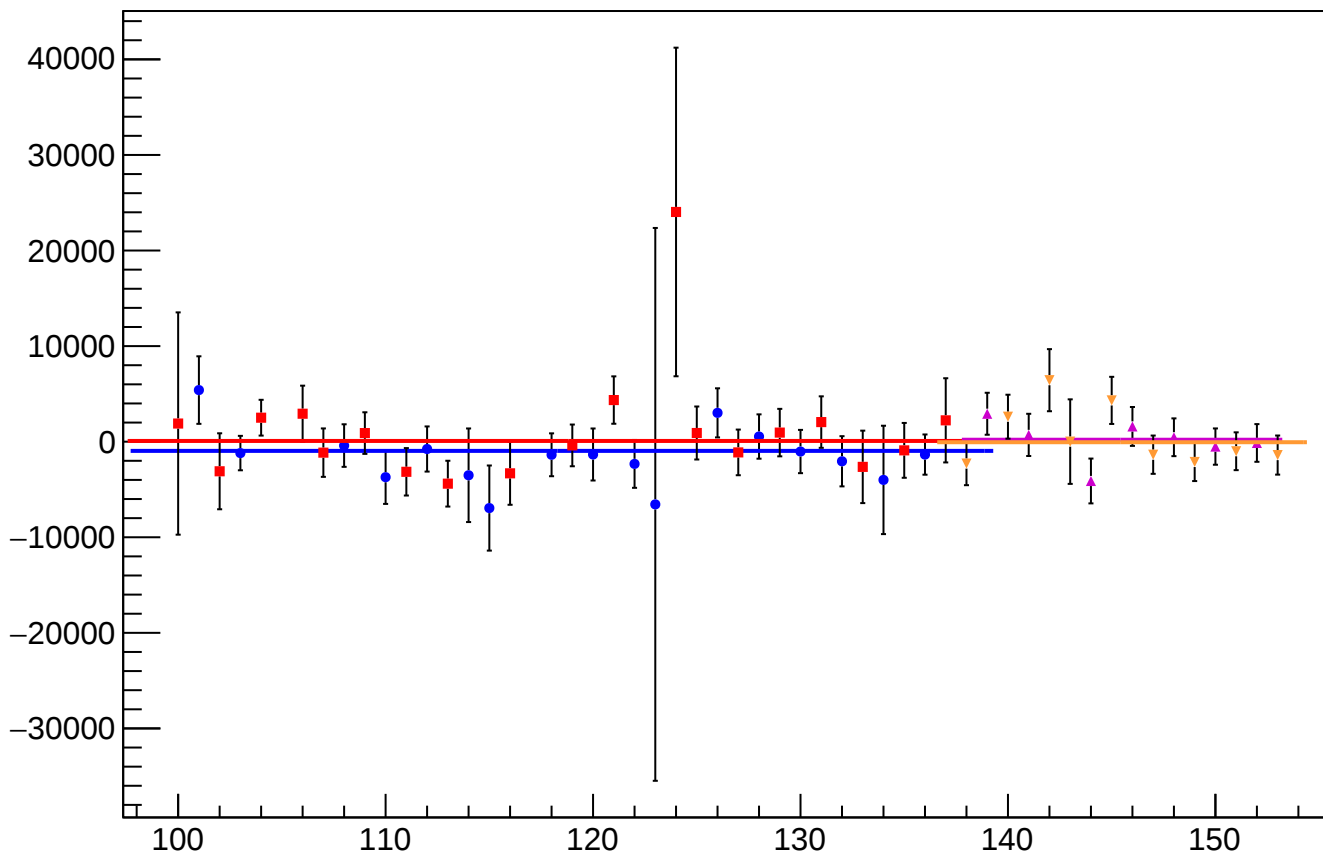
Left In:  $8790.120 \pm 2.607$   $\chi^2/\text{NDF}$ : 209763.6/6

+ sign  $7736.775 \pm 1.529$   $\chi^2/\text{NDF}$ : 969045.1/25

All:  $7754.116 \pm 1.097$   $\chi^2/\text{NDF}$ : 1979724.8/51

- sign  $7772.462 \pm 1.573$   $\chi^2/\text{NDF}$ : 1010415.2/25

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



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

Left Out:  $-55.637 \pm 769.382$   $\chi^2/\text{NDF}$ : 11.6/8

Right Out:  $76.747 \pm 633.483$   $\chi^2/\text{NDF}$ : 16.7/18

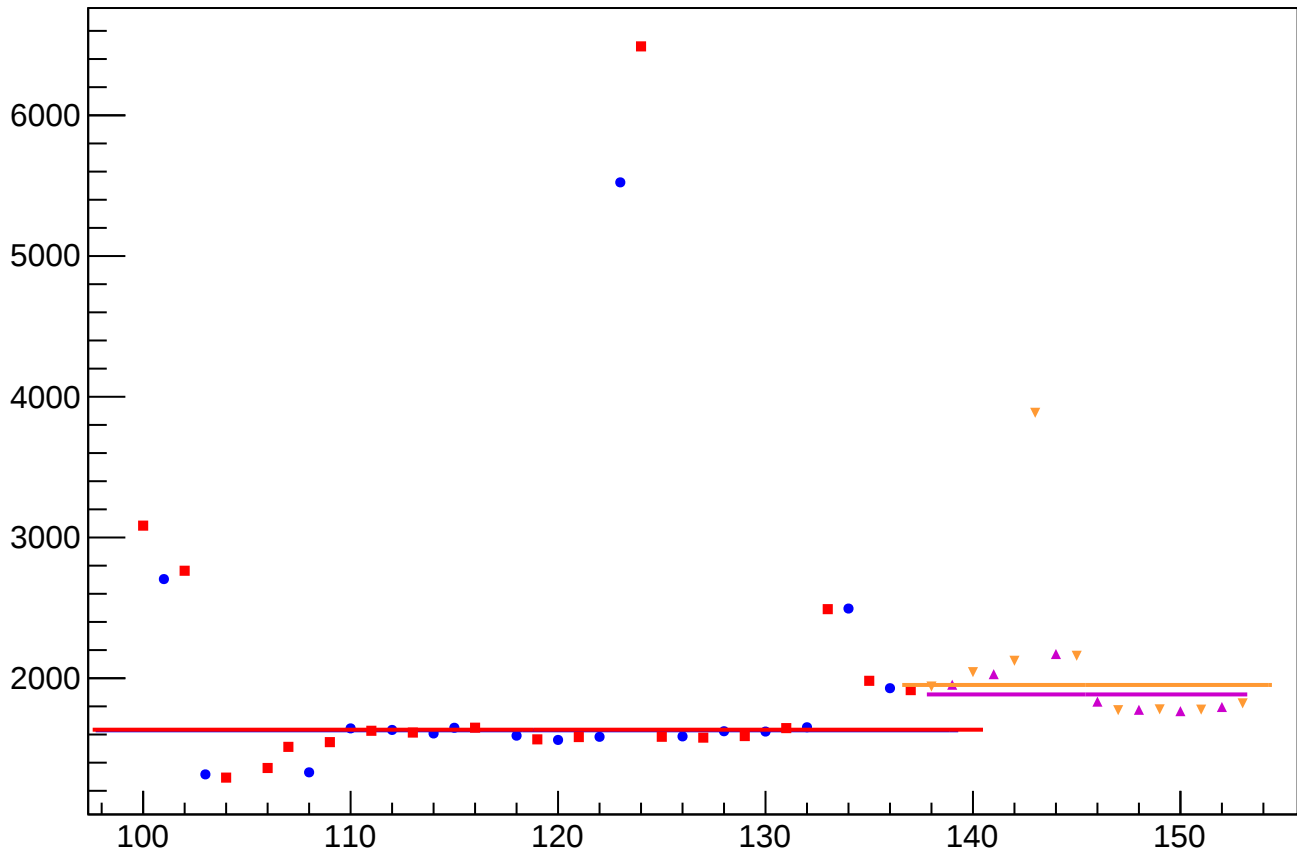
Left In:  $204.157 \pm 784.008$   $\chi^2/\text{NDF}$ : 5.6/6

+ sign  $-589.579 \pm 493.394$   $\chi^2/\text{NDF}$ : 22.5/25

All:  $-230.776 \pm 348.650$   $\chi^2/\text{NDF}$ : 45.9/51

- sign  $127.073 \pm 492.737$   $\chi^2/\text{NDF}$ : 22.4/25

dit\_asym\_at2\_dd\_rms vs Slug



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

Left Out:  $1952.211 \pm 0.544$   $\chi^2/\text{NDF}$ : 460370.4/8

Right Out:  $1634.258 \pm 0.448$   $\chi^2/\text{NDF}$ : 588649.4/18

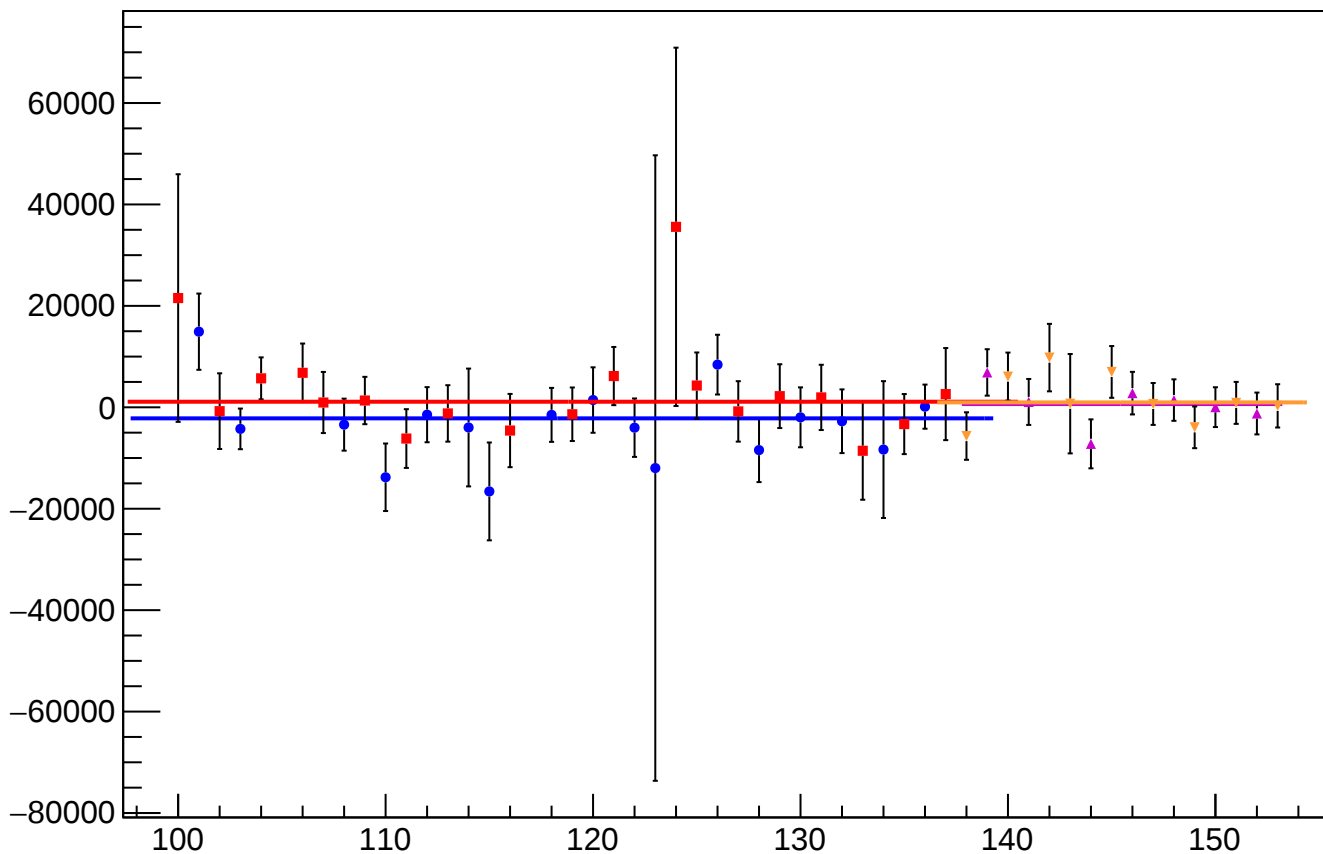
Left In:  $1884.878 \pm 0.554$   $\chi^2/\text{NDF}$ : 59782.7/6

+ sign  $1762.481 \pm 0.349$   $\chi^2/\text{NDF}$ : 1075099.2/25

All:  $1747.846 \pm 0.247$   $\chi^2/\text{NDF}$ : 1850692.9/51

- sign  $1733.251 \pm 0.348$   $\chi^2/\text{NDF}$ : 772079.2/25

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



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

Left Out: 968.722 $\pm$ 1595.757  $\chi^2$ /NDF: 7.8/8

Right Out: 1098.345 $\pm$ 1439.820  $\chi^2$ /NDF: 9.3/18

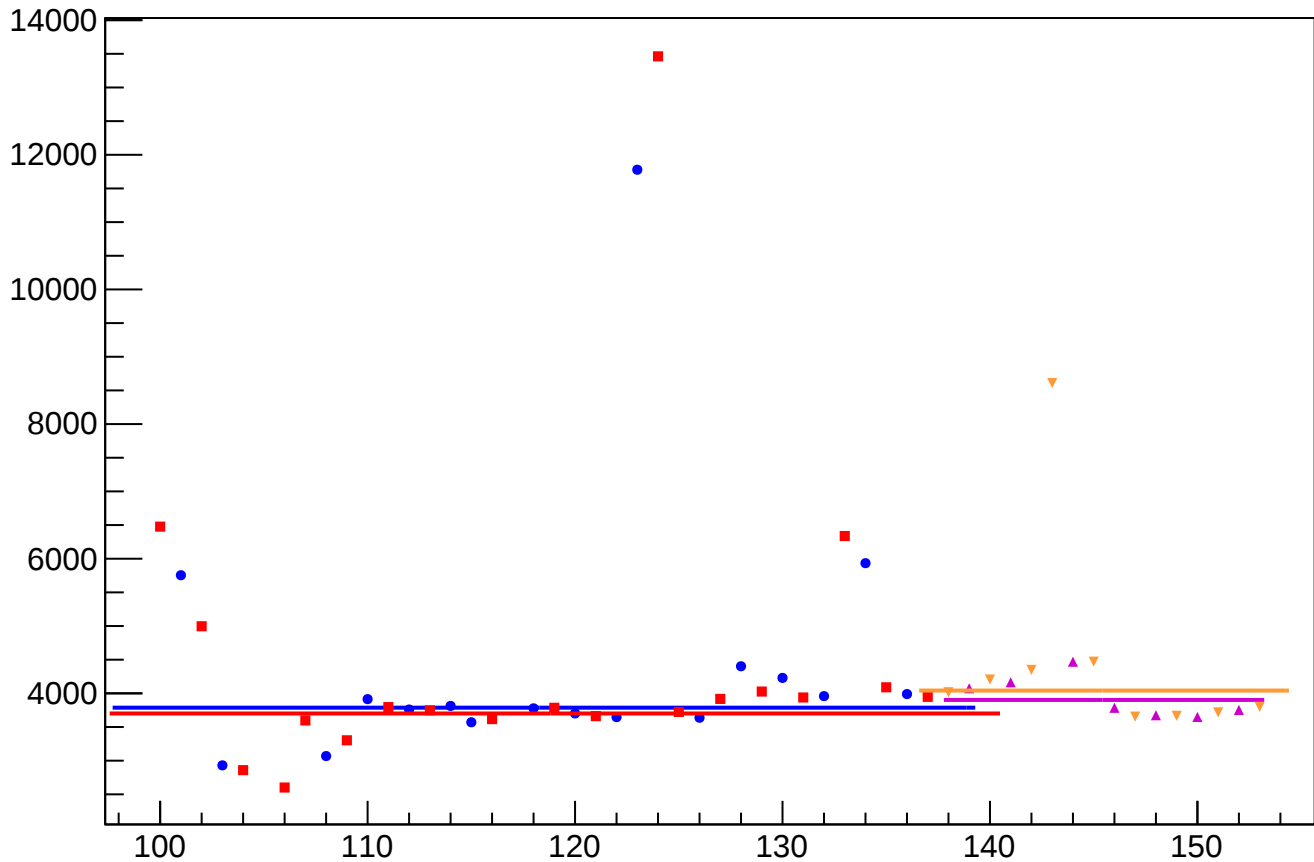
Left In: 641.003 $\pm$ 1622.896  $\chi^2$ /NDF: 5.0/6

+ sign -709.846 $\pm$ 1090.239  $\chi^2$ /NDF: 25.8/25

All: 103.318 $\pm$ 766.207  $\chi^2$ /NDF: 41.3/51

- sign 896.914 $\pm$ 1077.042  $\chi^2$ /NDF: 14.4/25

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



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

Left Out: 4041.714+/-1.128  $\chi^2/\text{NDF}$ : 508491.8/8

Right Out: 3700.932+/-1.018  $\chi^2/\text{NDF}$ : 581094.9/18

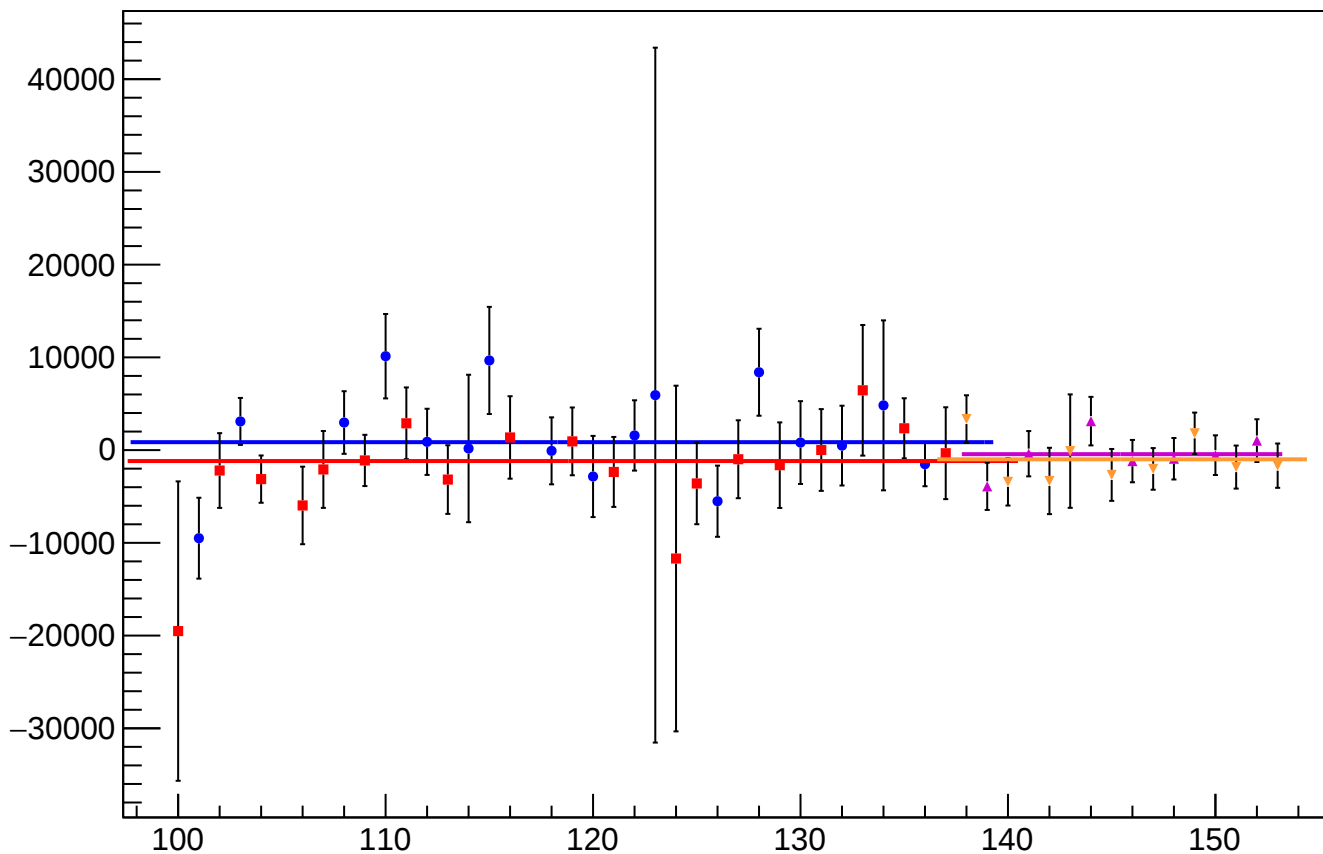
Left In: 3902.419+/-1.148  $\chi^2/\text{NDF}$ : 55865.5/6

+ sign 3906.055+/-0.771  $\chi^2/\text{NDF}$ : 928249.7/25

All: 3847.154+/-0.542  $\chi^2/\text{NDF}$ : 1593995.1/51

- sign 3789.672+/-0.762  $\chi^2/\text{NDF}$ : 654210.8/25

# asym\_at2\_dd\_mean vs Slug



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

Left Out:  $-992.798 \pm 877.703$   $\chi^2/\text{NDF}$ : 6.6/8

Right Out:  $-1178.044 \pm 925.669$   $\chi^2/\text{NDF}$ : 8.6/18

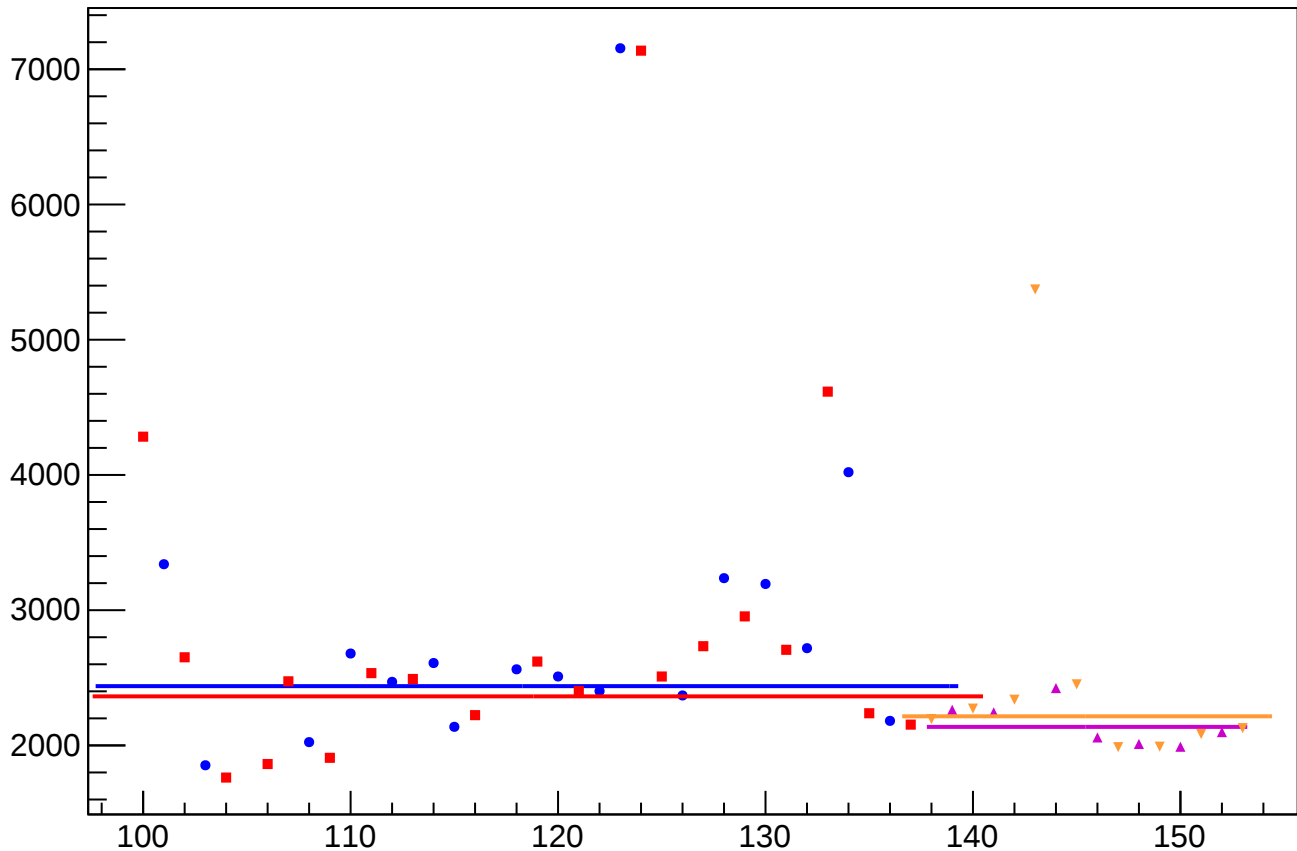
Left In:  $-436.622 \pm 888.564$   $\chi^2/\text{NDF}$ : 4.3/6

+ sign  $-155.461 \pm 649.225$   $\chi^2/\text{NDF}$ : 29.3/25

All:  $-477.864 \pm 456.145$   $\chi^2/\text{NDF}$ : 42.9/51

- sign  $-792.176 \pm 641.026$   $\chi^2/\text{NDF}$ : 13.2/25

# asym\_at2\_dd\_rms vs Slug



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

Left Out: 2215.196+/-0.621  $\chi^2/\text{NDF}$ : 600411.9/8

Right Out: 2362.739+/-0.655  $\chi^2/\text{NDF}$ : 657525.3/18

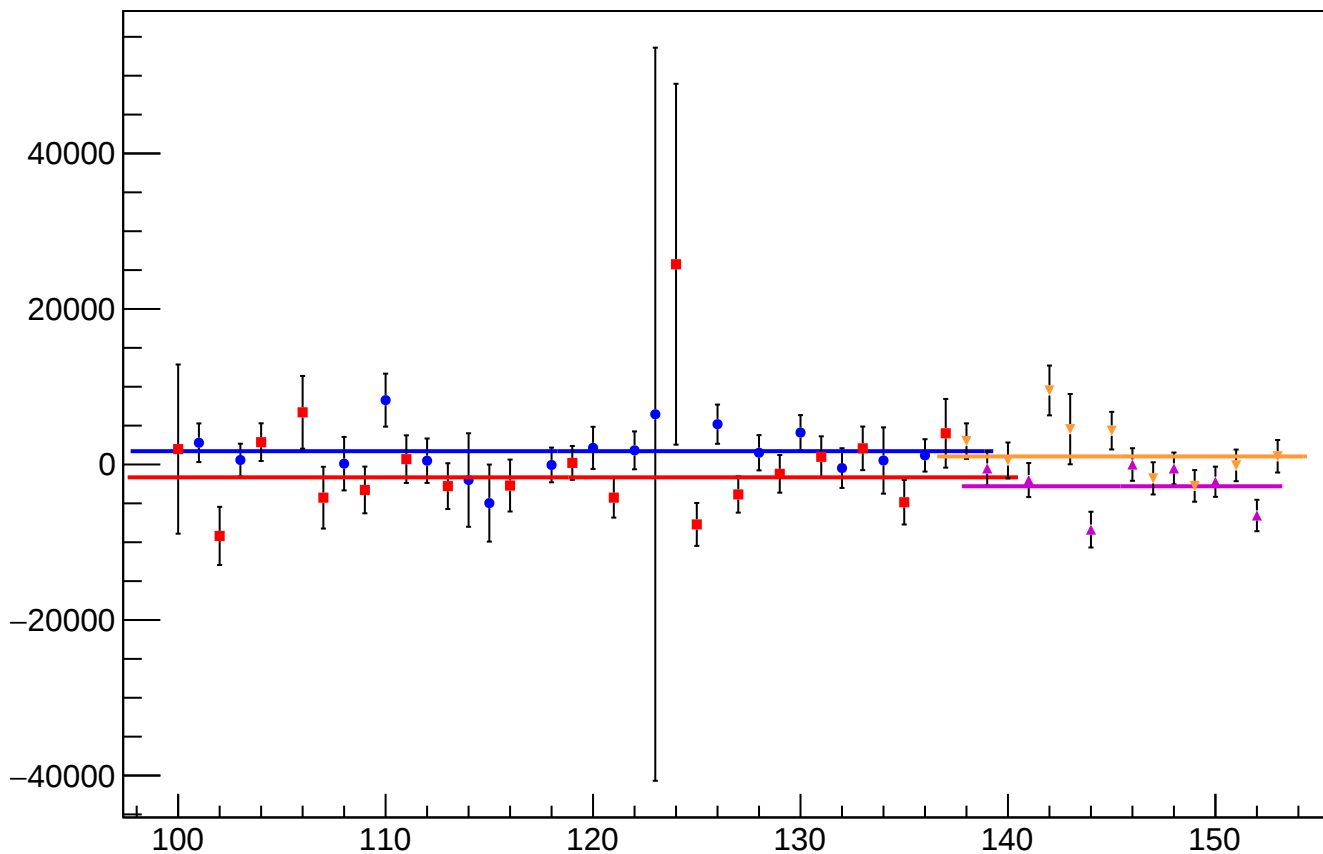
Left In: 2136.951+/-0.628  $\chi^2/\text{NDF}$ : 51513.0/6

+ sign 2316.221+/-0.459  $\chi^2/\text{NDF}$ : 1135643.9/25

All: 2280.274+/-0.323  $\chi^2/\text{NDF}$ : 1918720.7/51

- sign 2245.229+/-0.453  $\chi^2/\text{NDF}$ : 770967.8/25

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



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

Left Out: 1035.341 $\pm$ 780.063  $\chi^2$ /NDF:16.0/8

Right Out: -1650.522 $\pm$ 694.283  $\chi^2$ /NDF: 27.0/18

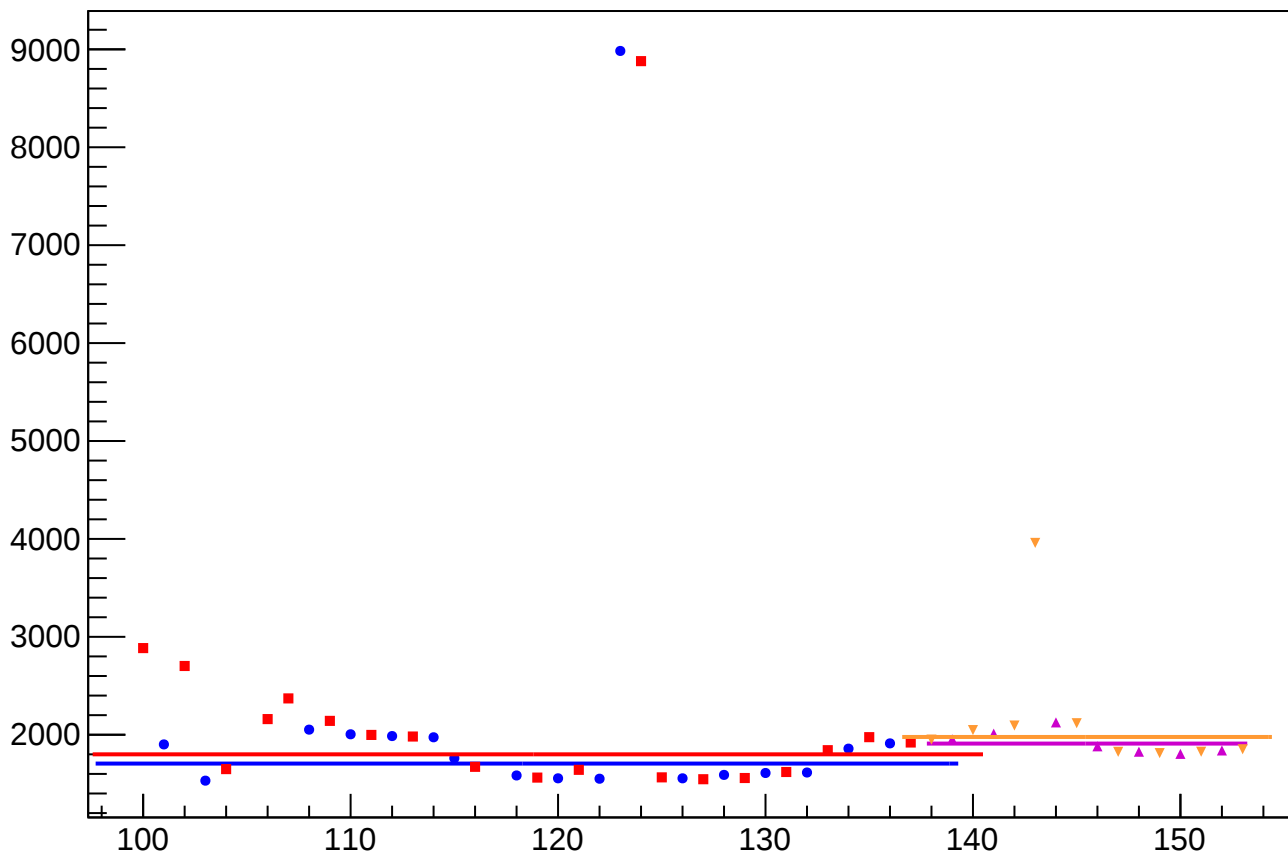
Left In: -2798.185 $\pm$ 795.050  $\chi^2$ /NDF:13.7/6

+ sign 1426.472 $\pm$ 507.011  $\chi^2$ /NDF: 27.8/25

All: -304.996 $\pm$ 364.016  $\chi^2$ /NDF: 93.7/51

- sign -2147.057 $\pm$ 522.953  $\chi^2$ /NDF: 41.8/25

dit\_asym\_atl\_avg\_rms vs Slug



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

Left Out: 1977.306+/-0.552  $\chi^2/\text{NDF}$ : 438512.3/8

Right Out: 1799.992+/-0.490  $\chi^2/\text{NDF}$ : 538779.9/18

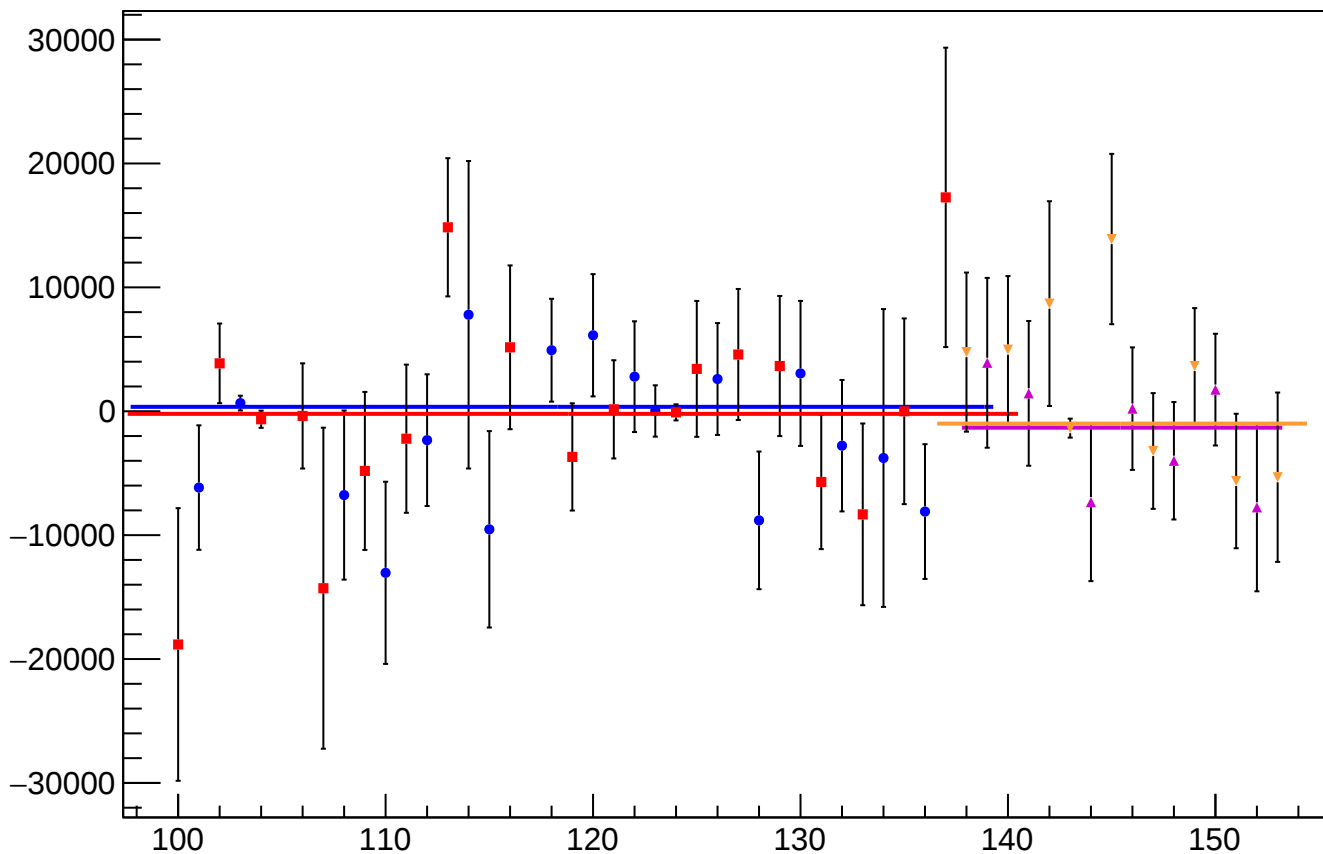
Left In: 1909.744+/-0.562  $\chi^2/\text{NDF}$ : 34712.1/6

+ sign 1820.396+/-0.359  $\chi^2/\text{NDF}$ : 772800.4/25

All: 1833.477+/-0.257  $\chi^2/\text{NDF}$ : 1370700.5/51

- sign 1847.358+/-0.369  $\chi^2/\text{NDF}$ : 595156.1/25

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



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

Left Out: -994.498+/-718.122  $\chi^2/\text{NDF}$ : 10.5/8

Right Out: -209.907+/-446.627  $\chi^2/\text{NDF}$ : 21.4/18

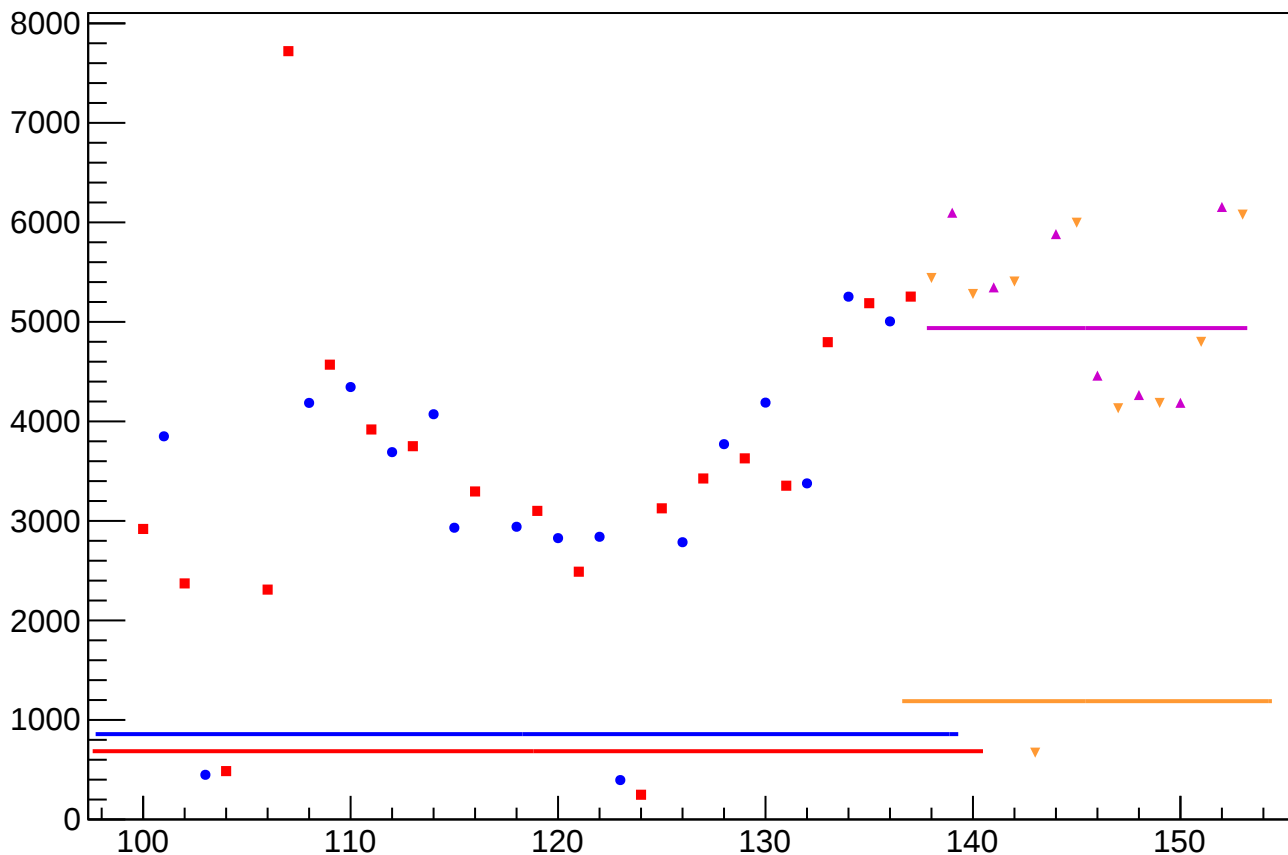
Left In: -1325.291+/-2077.988  $\chi^2/\text{NDF}$ : 3.5/6

+ sign -123.286+/-428.103  $\chi^2/\text{NDF}$ : 30.2/25

All: -189.878+/-305.693  $\chi^2/\text{NDF}$ : 55.4/51

- sign -259.158+/-436.655  $\chi^2/\text{NDF}$ : 25.1/25

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



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

Left Out: 1188.732 $\pm$ 0.508  $\chi^2$ /NDF: 7763144.1/8

Right Out: 685.800 $\pm$ 0.316  $\chi^2$ /NDF: 9461114.1/18

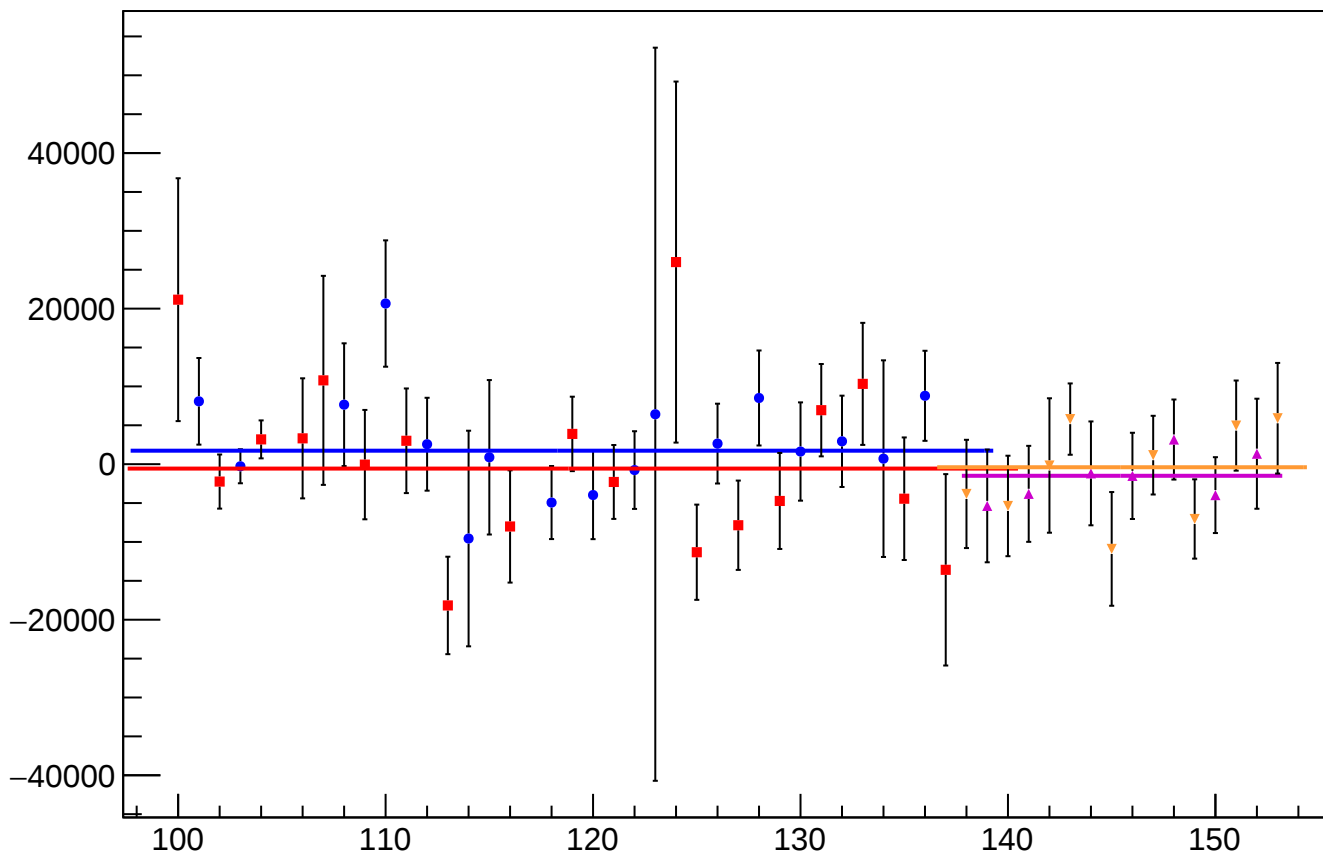
Left In: 4937.817 $\pm$ 1.469  $\chi^2$ /NDF: 289863.6/6

+ sign 975.196 $\pm$ 0.303  $\chi^2$ /NDF: 16212733.8/25

All: 925.380 $\pm$ 0.216  $\chi^2$ /NDF: 34023220.7/5

- sign 873.553 $\pm$ 0.309  $\chi^2$ /NDF: 17755229.5/25

# asym\_atl\_avg\_mean vs Slug



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

Left Out: -395.140+/-1994.584  $\chi^2/\text{NDF}$ : 8.2/8

Right Out: -567.083+/-1286.310  $\chi^2/\text{NDF}$ : 27.1/18

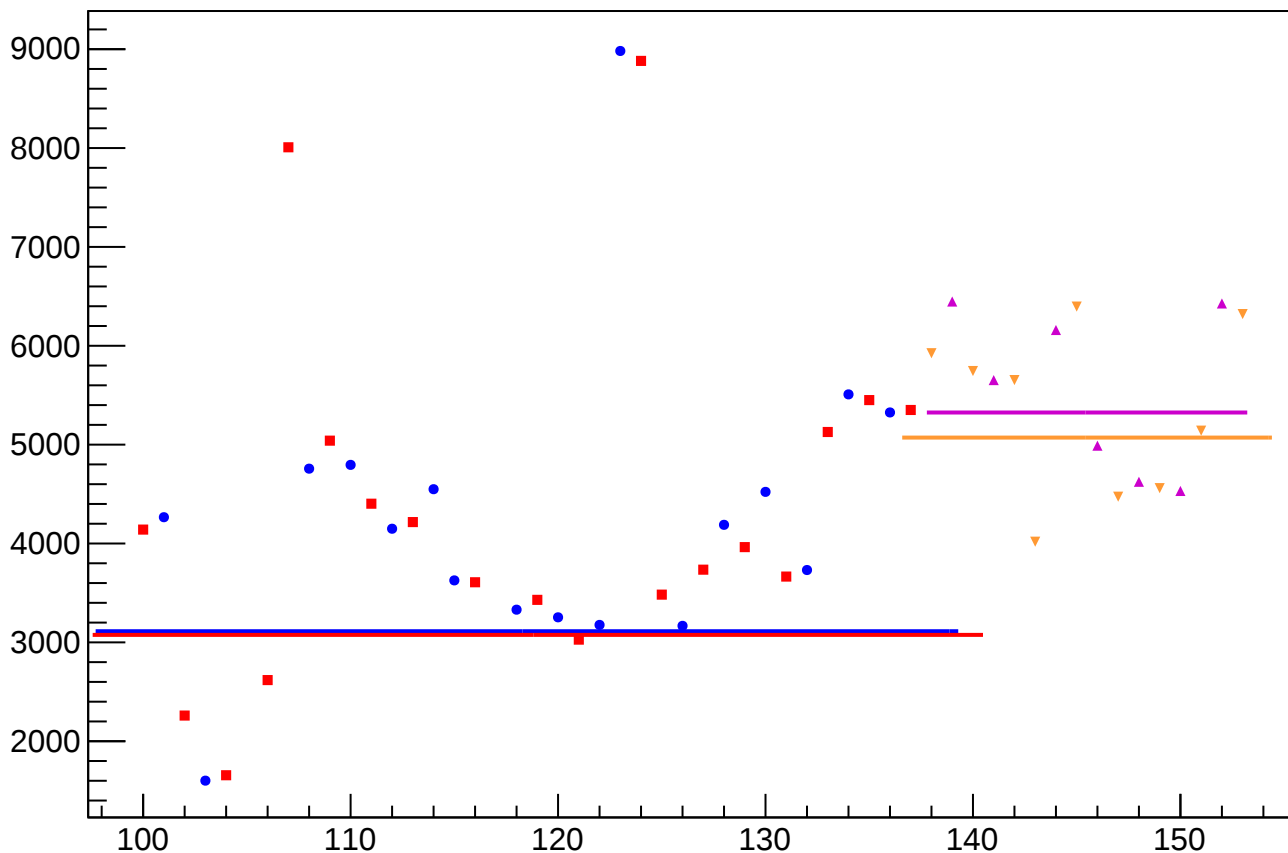
Left In: -1493.182+/-2235.943  $\chi^2/\text{NDF}$ : 1.7/6

+ sign 1095.540+/-1091.802  $\chi^2/\text{NDF}$ : 23.9/25

All: 168.959+/-780.083  $\chi^2/\text{NDF}$ : 54.2/51

- sign -797.367+/-1114.972  $\chi^2/\text{NDF}$ : 28.9/25

# asym\_atl\_avg\_rms vs Slug



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

Left Out:  $5071.400 \pm 1.410$   $\chi^2/\text{NDF}$ : 342156.5/8

Right Out:  $3075.702 \pm 0.896$   $\chi^2/\text{NDF}$ : 2011000.5/18

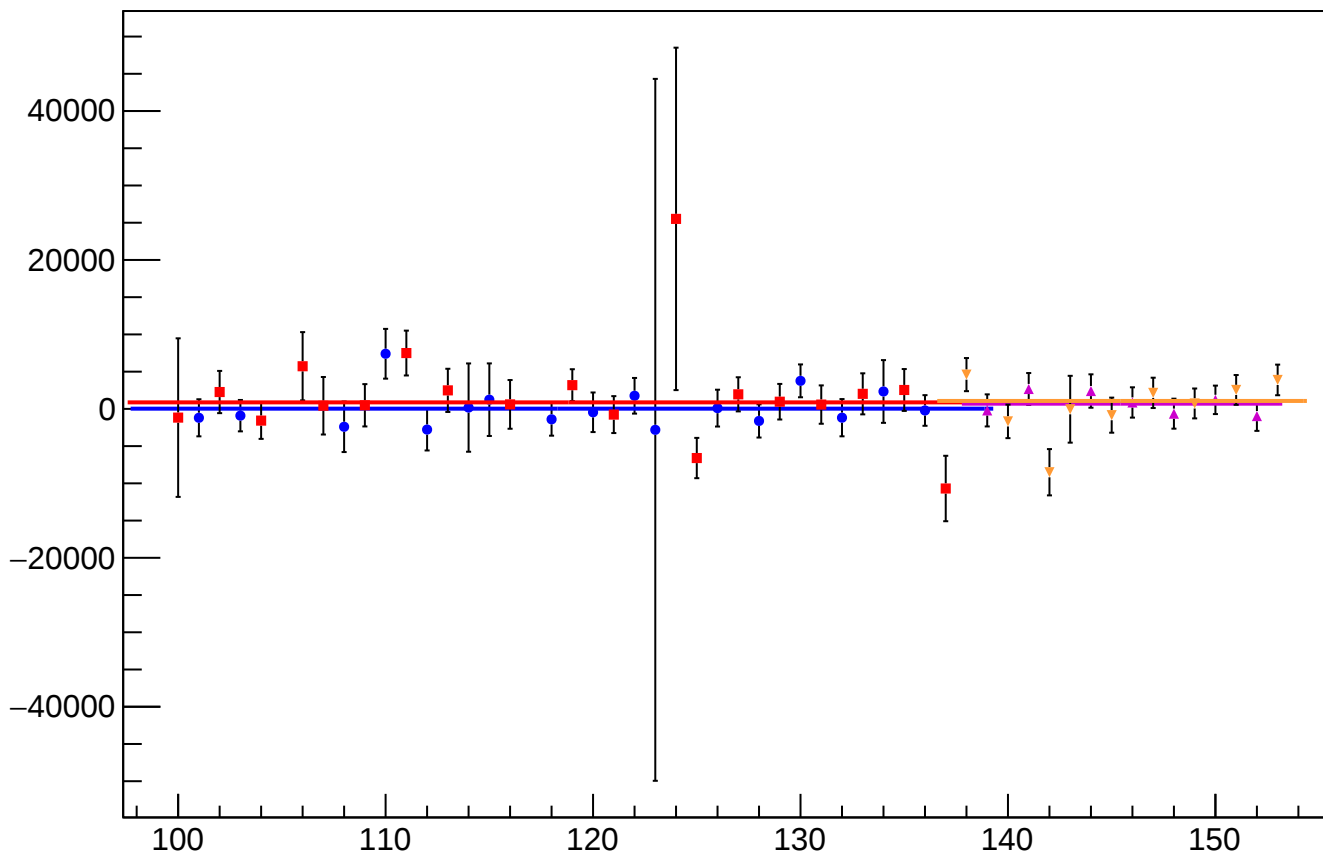
Left In:  $5325.010 \pm 1.581$   $\chi^2/\text{NDF}$ : 230786.0/6

+ sign  $3699.568 \pm 0.772$   $\chi^2/\text{NDF}$ : 3577487.6/25

All:  $3661.591 \pm 0.549$   $\chi^2/\text{NDF}$ : 7355809.2/51

- sign  $3622.847 \pm 0.780$   $\chi^2/\text{NDF}$ : 3773433.0/25

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



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

Left Out: 1065.247+/-765.003  $\chi^2/\text{NDF}$ : 17.0/8

Right Out: 874.470+/-673.273  $\chi^2/\text{NDF}$ : 25.7/18

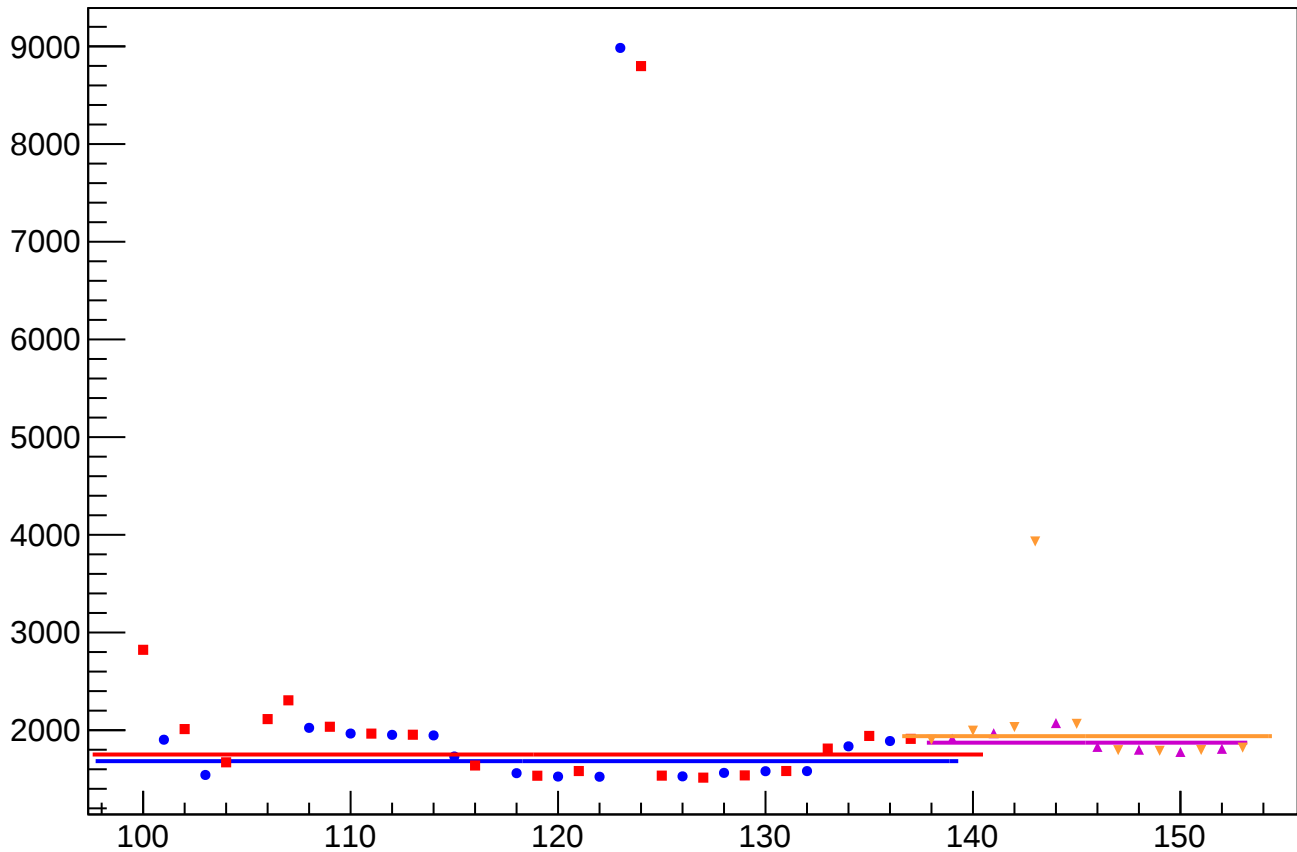
Left In: 699.463+/-779.160  $\chi^2/\text{NDF}$ : 2.8/6

+ sign 470.010+/-499.030  $\chi^2/\text{NDF}$ : 29.8/25

All: 631.434+/-356.488  $\chi^2/\text{NDF}$ : 58.6/51

- sign 799.658+/-509.431  $\chi^2/\text{NDF}$ : 28.5/25

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



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

Left Out: 1938.925+/-0.541  $\chi^2/\text{NDF}$ : 441514.2/8

Right Out: 1751.086+/-0.475  $\chi^2/\text{NDF}$ : 427069.6/18

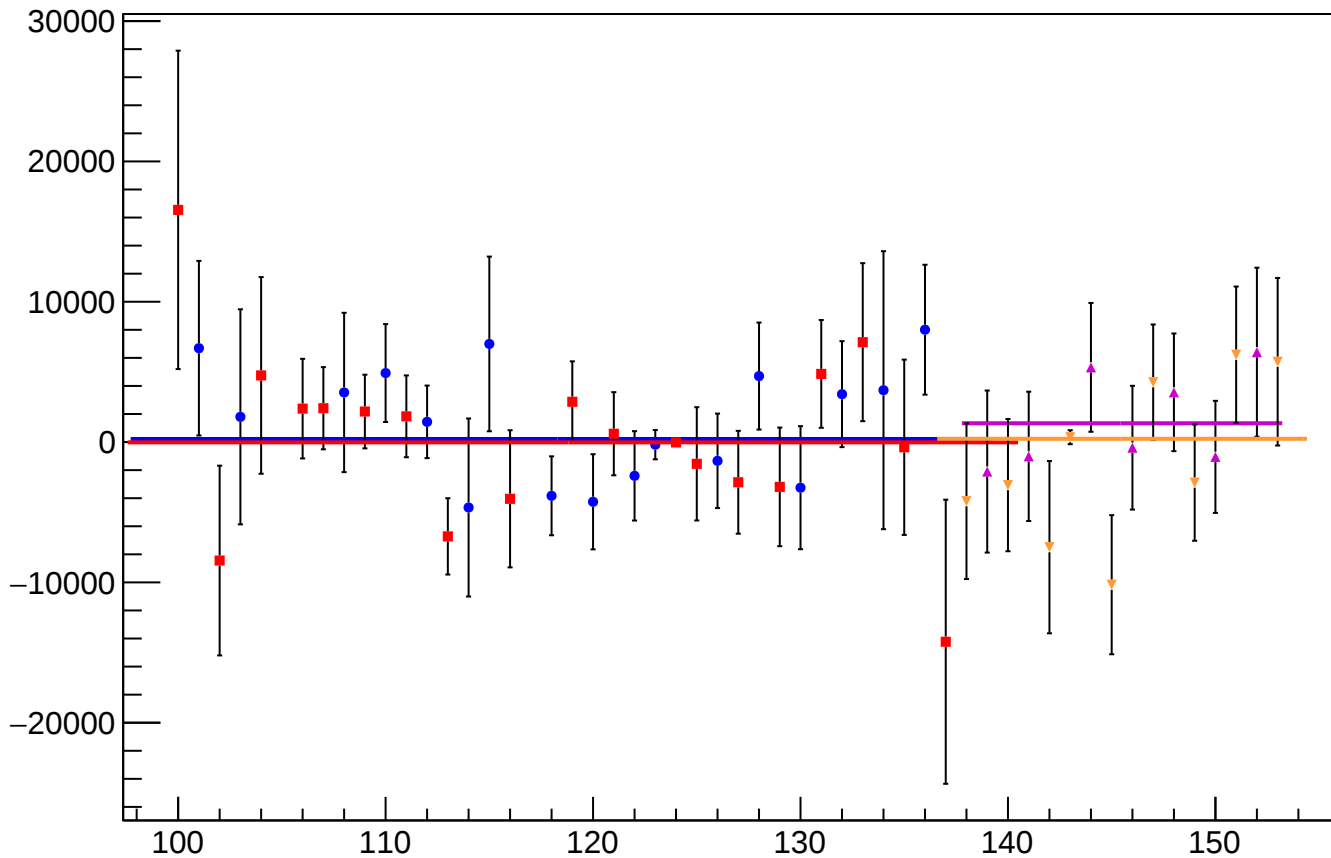
Left In: 1872.207+/-0.551  $\chi^2/\text{NDF}$ : 31163.9/6

+ sign 1791.974+/-0.353  $\chi^2/\text{NDF}$ : 765834.5/25

All: 1797.249+/-0.252  $\chi^2/\text{NDF}$ : 1252245.4/51

- sign 1802.732+/-0.360  $\chi^2/\text{NDF}$ : 485955.2/25

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



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

Left Out: 233.534 $\pm$ 479.800  $\chi^2$ /NDF: 11.1/8

Right Out: -20.268 $\pm$ 114.130  $\chi^2$ /NDF: 20.7/18

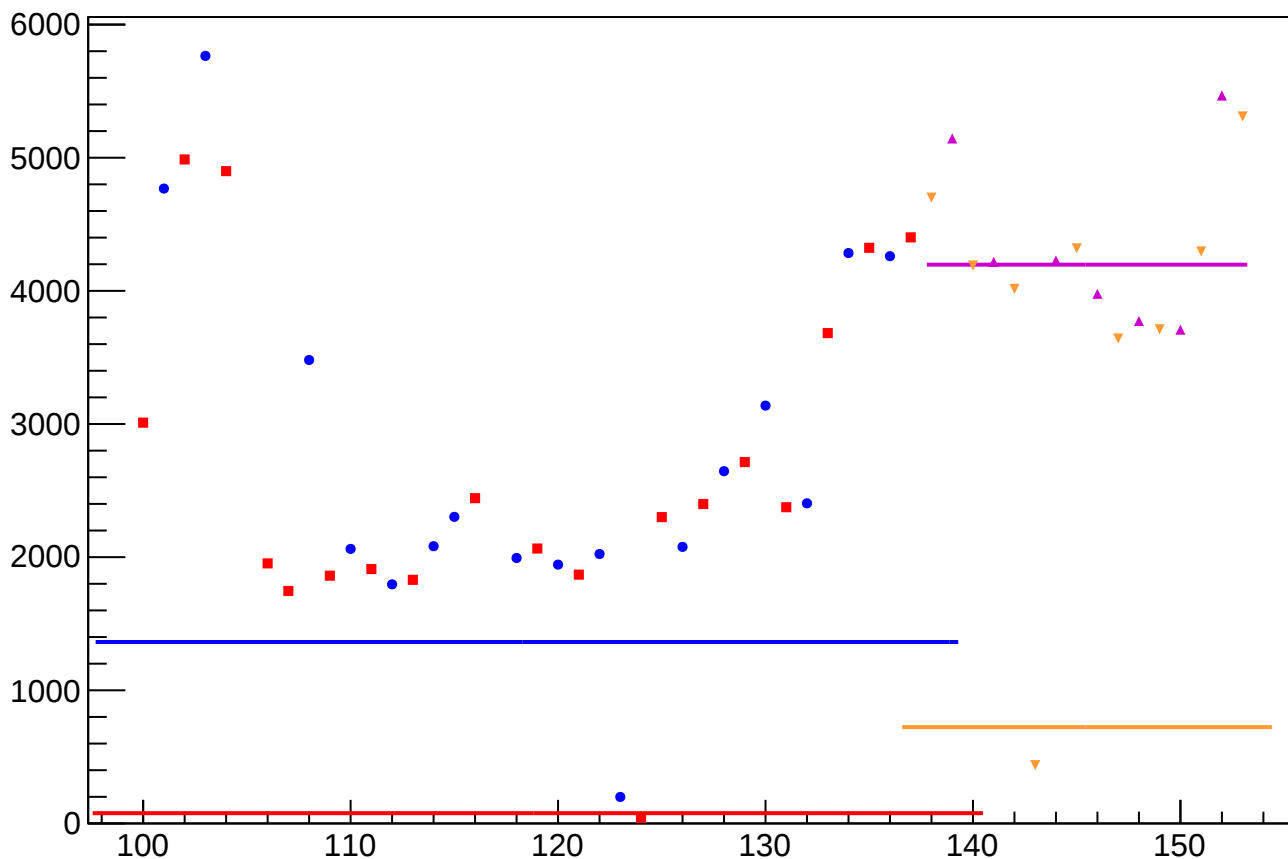
Left In: 1341.282 $\pm$ 1759.034  $\chi^2$ /NDF: 2.9/6

+ sign 229.320 $\pm$ 399.425  $\chi^2$ /NDF: 26.9/25

All: 3.777 $\pm$ 109.525  $\chi^2$ /NDF: 51.4/51

- sign -14.560 $\pm$ 113.890  $\chi^2$ /NDF: 24.2/25

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



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

Left Out: 723.440 $\pm$ 0.339  $\chi^2$ /NDF: 8699858.6/8

Right Out: 77.129 $\pm$ 0.081  $\chi^2$ /NDF: 13248048.9/18

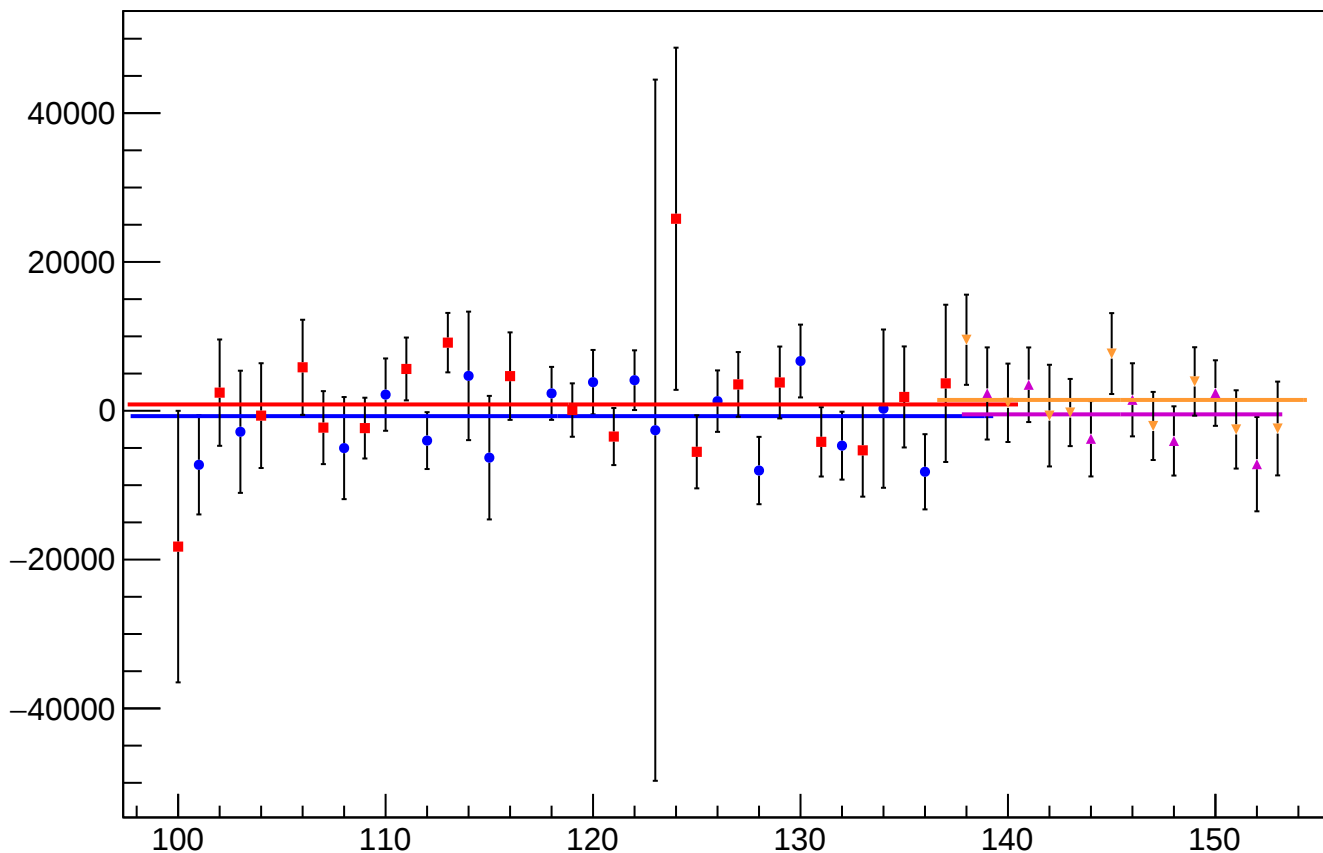
Left In: 4196.844 $\pm$ 1.244  $\chi^2$ /NDF: 198255.5/6

+ sign 919.720 $\pm$ 0.282  $\chi^2$ /NDF: 16026036.4/25

All: 156.454 $\pm$ 0.077  $\chi^2$ /NDF: 48293545.7/5

- sign 94.399 $\pm$ 0.081  $\chi^2$ /NDF: 24370559.5/25

# asym\_atl\_dd\_mean vs Slug



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

Left Out:  $1454.770 \pm 1756.902$   $\chi^2/\text{NDF}$ : 5.2/8

Right Out:  $849.844 \pm 1191.907$   $\chi^2/\text{NDF}$ : 16.0/18

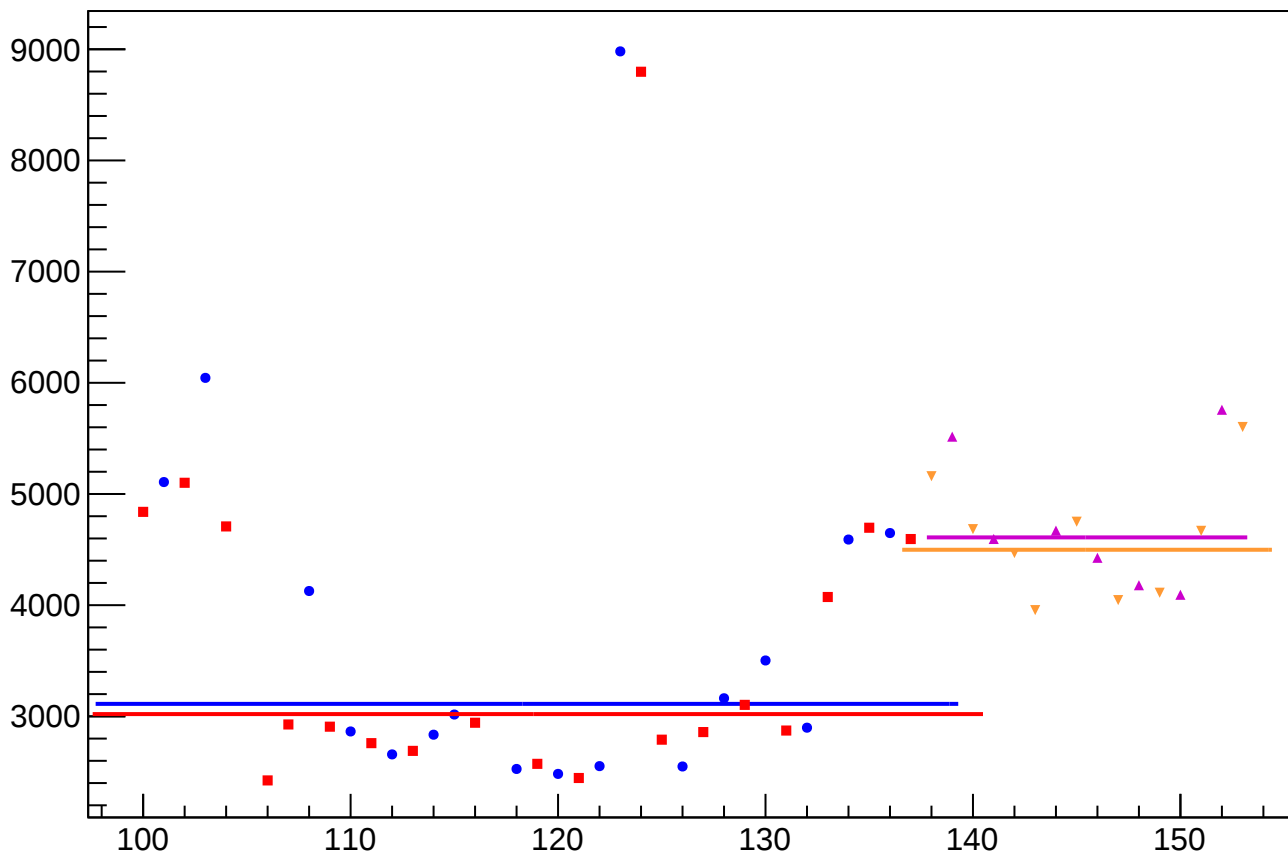
Left In:  $-481.330 \pm 1928.279$   $\chi^2/\text{NDF}$ : 3.5/6

+ sign  $11.867 \pm 1019.878$   $\chi^2/\text{NDF}$ : 20.9/25

All:  $248.246 \pm 719.025$   $\chi^2/\text{NDF}$ : 40.9/51

- sign  $481.843 \pm 1013.858$   $\chi^2/\text{NDF}$ : 19.9/25

# asym\_atl\_dd\_rms vs Slug



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

Left Out: 4498.377+/-1.242  $\chi^2$ /NDF:156786.5/8

Right Out: 3020.363+/-0.832  $\chi^2$ /NDF: 794218.3/18

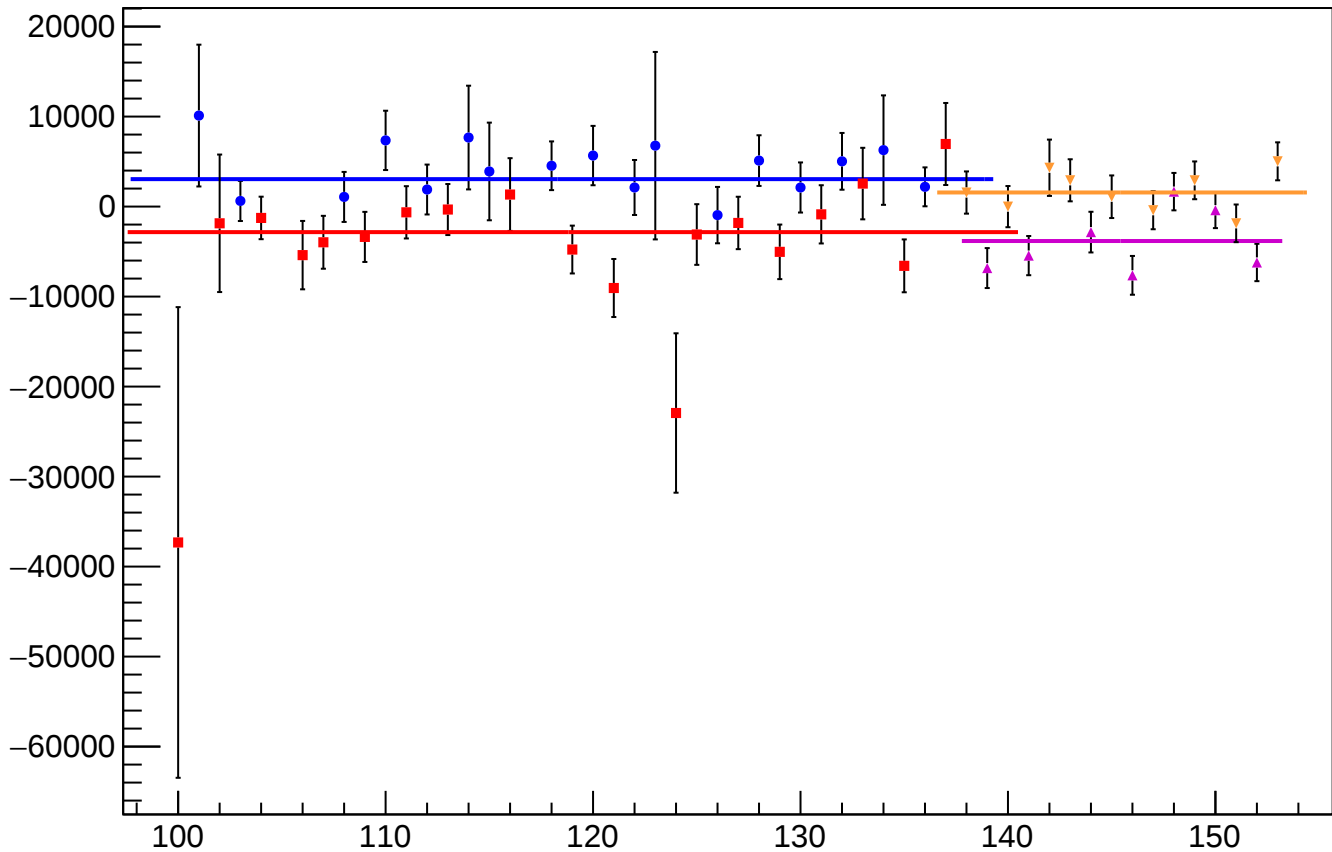
Left In: 4609.563+/-1.363  $\chi^2$ /NDF:156085.5/6

+ sign 3579.329+/-0.721  $\chi^2$ /NDF: 1940716.9/25

All: 3514.587+/-0.506  $\chi^2$ /NDF: 3896599.0/51

- sign 3451.762+/-0.710  $\chi^2$ /NDF: 1940001.7/25

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



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

Left Out:  $1567.074 \pm 757.958$   $\chi^2/\text{NDF}$ : 8.3/8

Right Out:  $-2838.725 \pm 765.884$   $\chi^2/\text{NDF}$ : 23.8/18

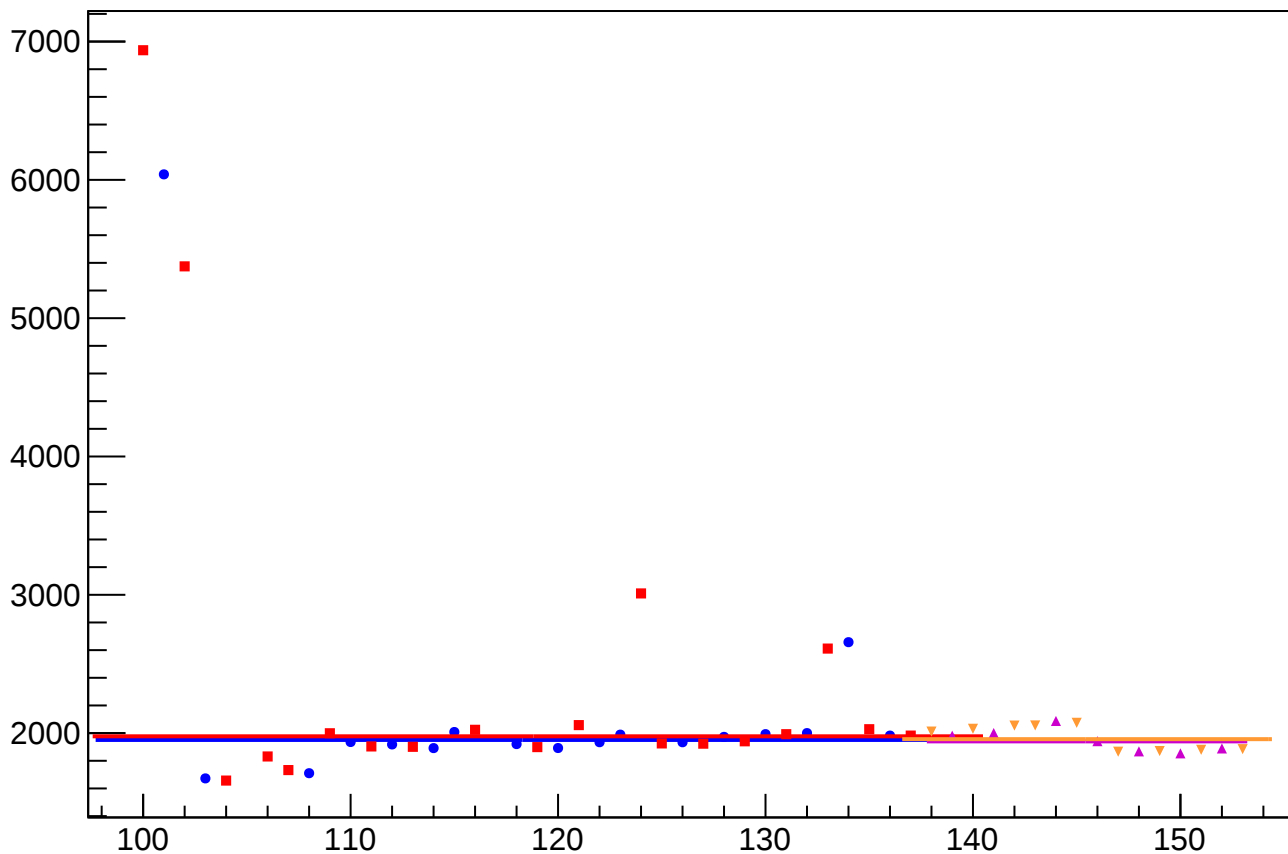
Left In:  $-3826.903 \pm 805.728$   $\chi^2/\text{NDF}$ : 17.0/6

+ sign  $2294.170 \pm 540.964$   $\chi^2/\text{NDF}$ : 19.4/25

All:  $-434.497 \pm 387.425$   $\chi^2/\text{NDF}$ : 113.2/51

- sign  $-3307.777 \pm 555.113$   $\chi^2/\text{NDF}$ : 41.5/25

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



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

Left Out: 1956.340+/-0.536  $\chi^2/\text{NDF}$ : 25880.5/8

Right Out: 1976.980+/-0.541  $\chi^2/\text{NDF}$ : 607706.4/18

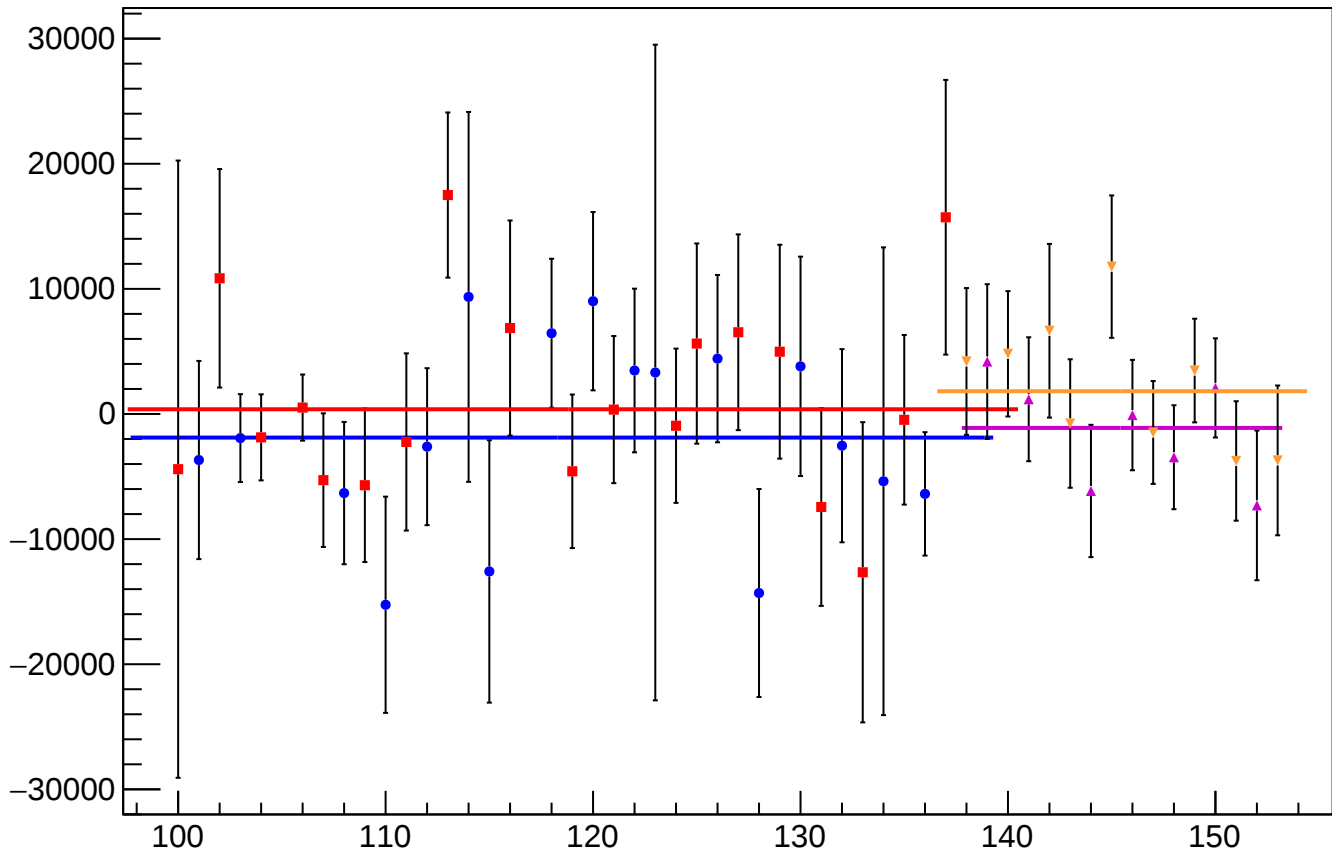
Left In: 1940.400+/-0.570  $\chi^2/\text{NDF}$ : 18168.8/6

+ sign 1953.569+/-0.383  $\chi^2/\text{NDF}$ : 641100.3/25

All: 1956.521+/-0.274  $\chi^2/\text{NDF}$ : 1269264.6/51

- sign 1959.628+/-0.392  $\chi^2/\text{NDF}$ : 628042.1/25

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



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

Left Out: 1820.193 $\pm$ 1695.940  $\chi^2$ /NDF: 7.3/8

Right Out: 376.861 $\pm$ 1359.615  $\chi^2$ /NDF: 17.6/18

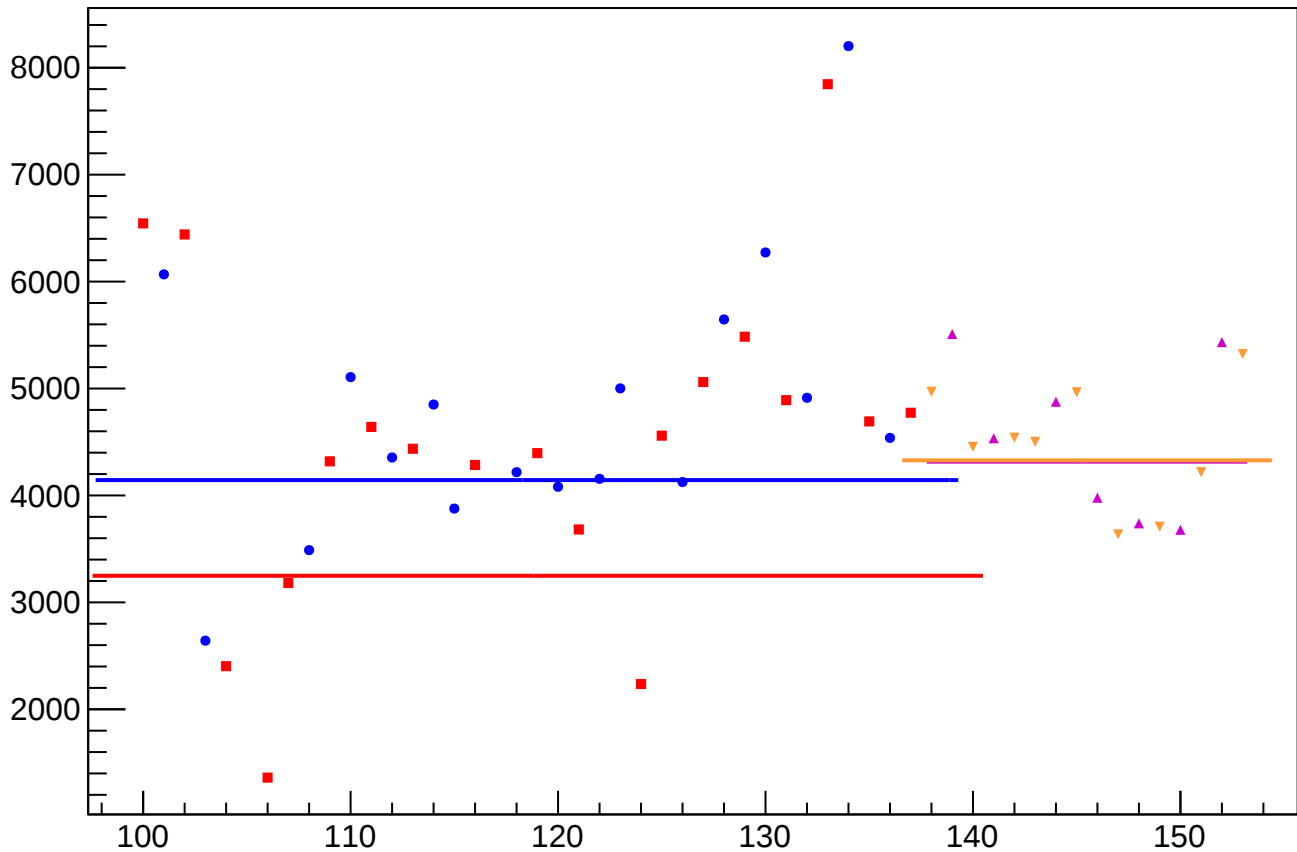
Left In: -1113.705 $\pm$ 1814.693  $\chi^2$ /NDF: 4.0/6

+ sign -74.481 $\pm$ 1185.562  $\chi^2$ /NDF: 23.9/25

All: -120.375 $\pm$ 801.646  $\chi^2$ /NDF: 45.9/51

- sign -159.034 $\pm$ 1088.096  $\chi^2$ /NDF: 22.0/25

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



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

Left Out: 4328.330+/-1.199  $\chi^2/\text{NDF}$ : 212185.8/8

+ sign 4233.812+/-0.838  $\chi^2/\text{NDF}$ : 1080307.5/25

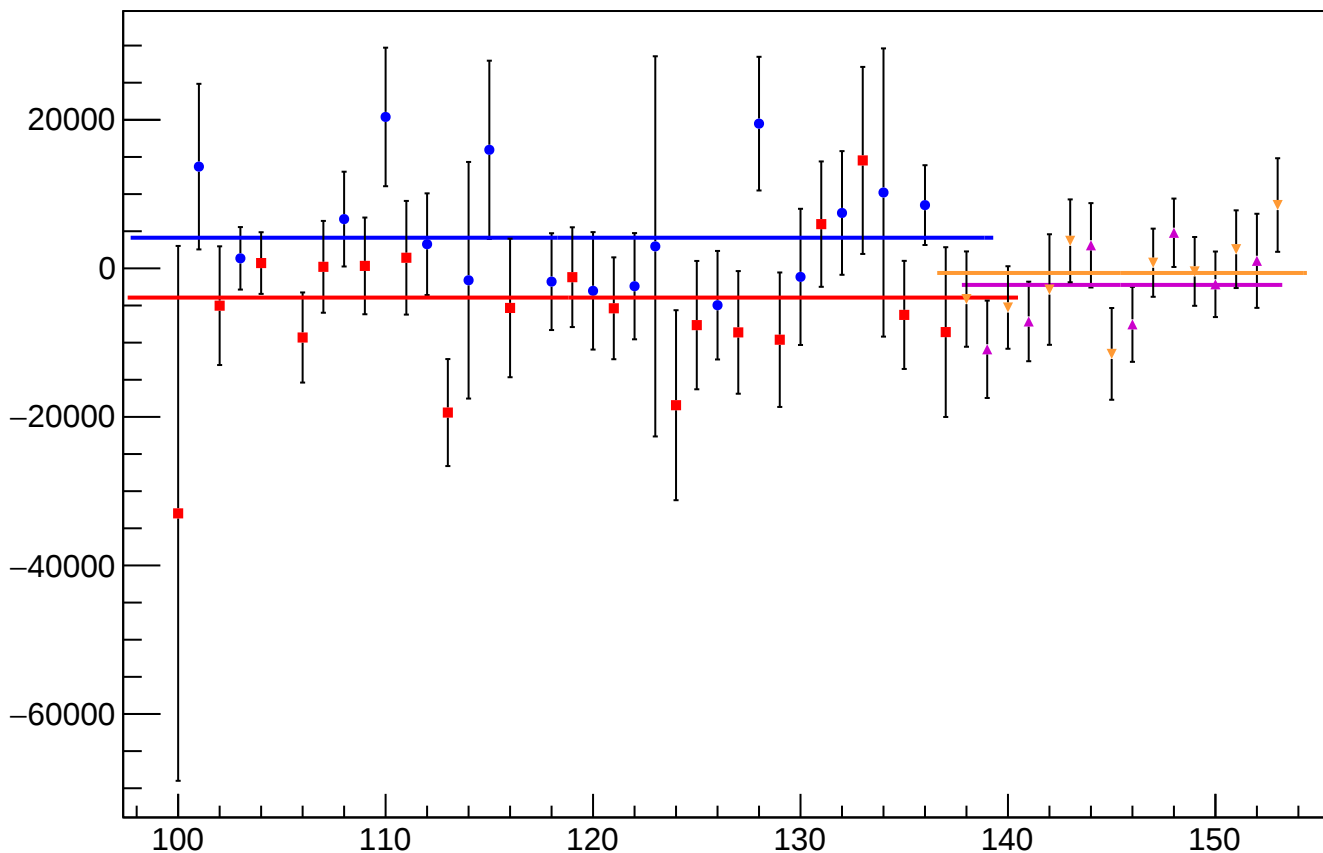
Right Out: 3248.634+/-0.961  $\chi^2/\text{NDF}$ : 2617775.0/18

All: 3907.395+/-0.567  $\chi^2/\text{NDF}$ : 4693443.6/51

- sign 3632.441+/-0.769  $\chi^2/\text{NDF}$ : 3333819.0/25

Left In: 4316.174+/-1.283  $\chi^2/\text{NDF}$ : 272747.2/6

# asym\_atr\_avg\_mean vs Slug



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

Left Out: -619.036 $\pm$ 1860.509  $\chi^2$ /NDF: 7.4/8

Right Out: -3933.351 $\pm$ 1725.500  $\chi^2$ /NDF: 14.9/18

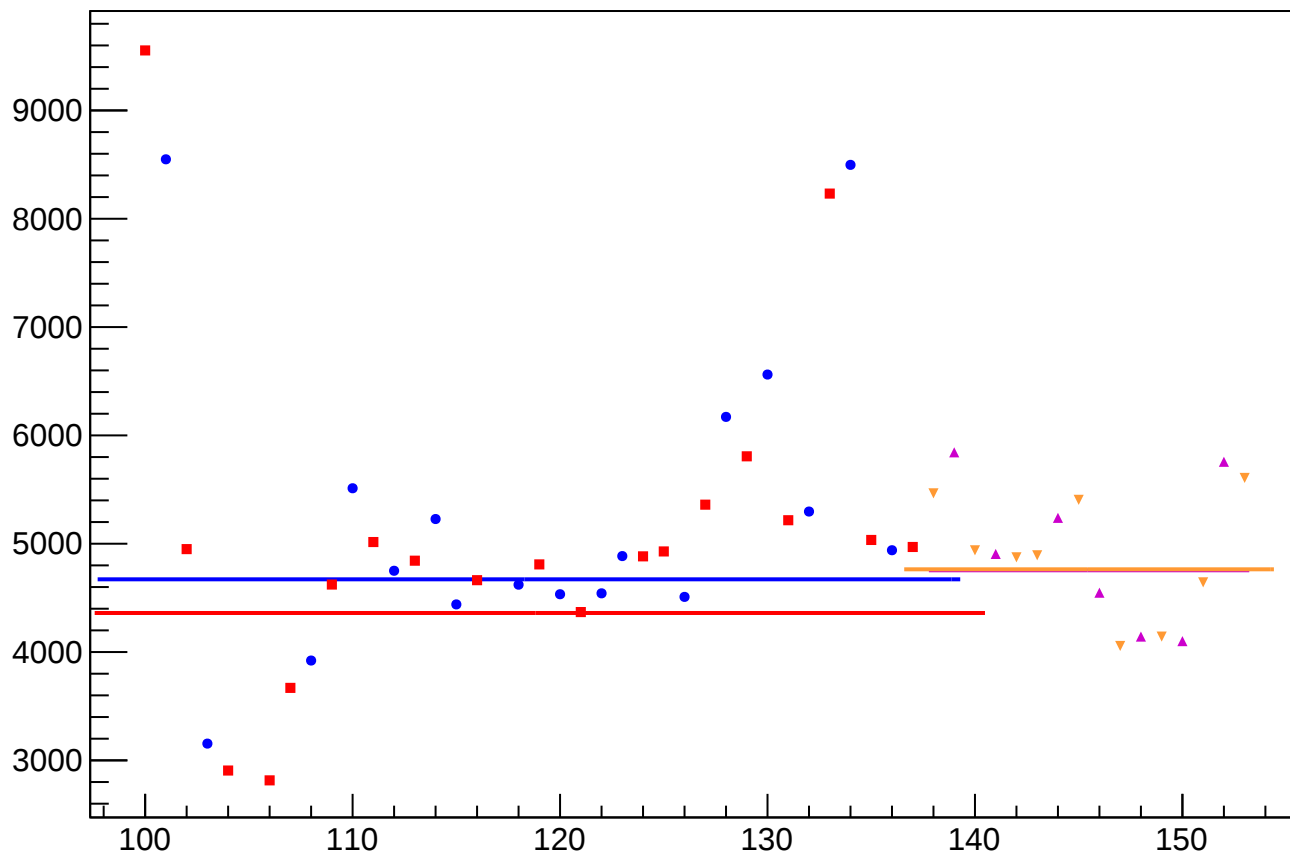
Left In: -2227.293 $\pm$ 1992.962  $\chi^2$ /NDF: 7.2/6

+ sign 1750.544 $\pm$ 1316.480  $\chi^2$ /NDF: 24.3/25

All: -748.564 $\pm$ 926.628  $\chi^2$ /NDF: 53.9/51

- sign -3202.404 $\pm$ 1304.503  $\chi^2$ /NDF: 22.5/25

# asym\_atr\_avg\_rms vs Slug



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

Left Out: 4763.703+/-1.316  $\chi^2/\text{NDF}$ :169368.0/8

Right Out: 4360.531+/-1.213  $\chi^2/\text{NDF}$ : 834123.3/18

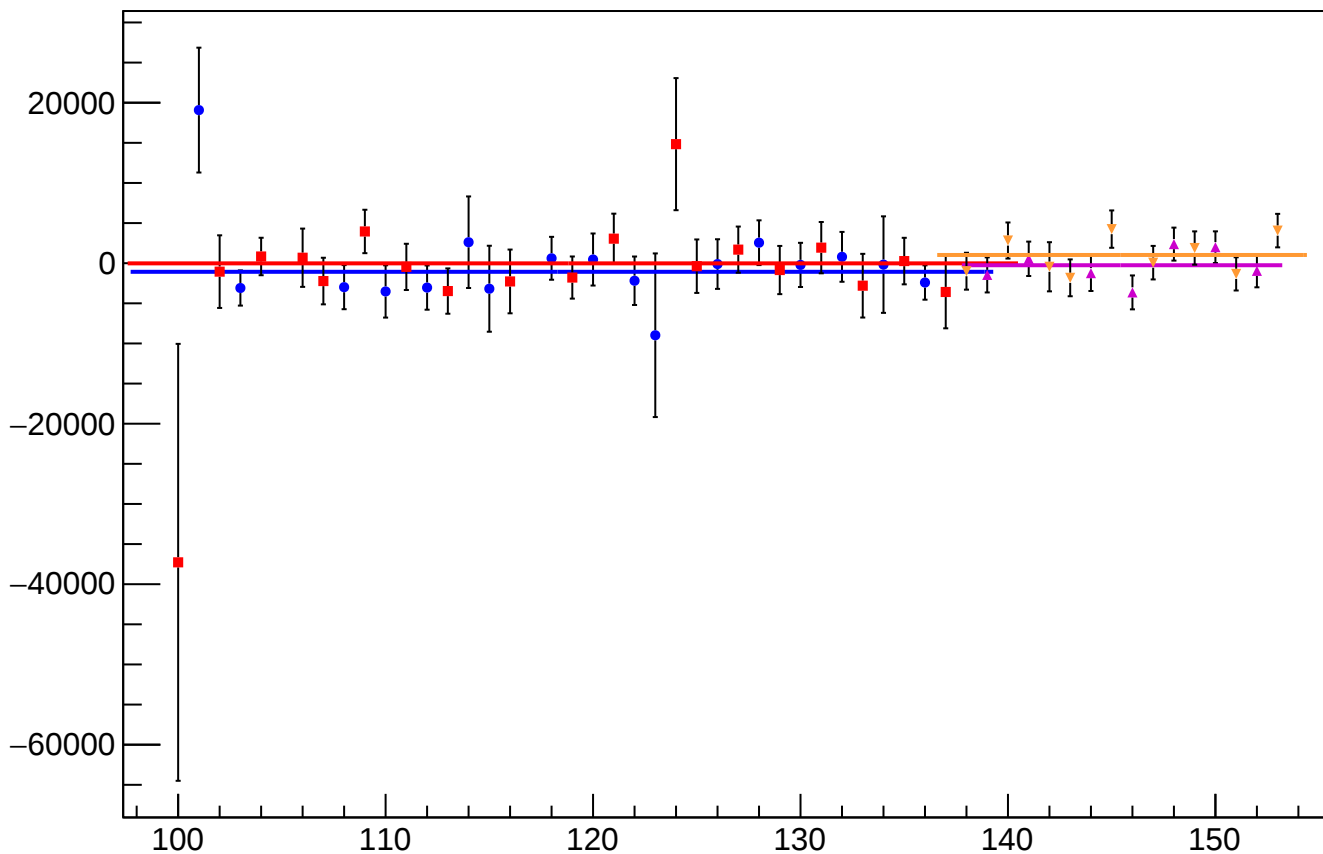
Left In: 4754.836+/-1.409  $\chi^2/\text{NDF}$ :203921.8/6

+ sign 4717.575+/-0.931  $\chi^2/\text{NDF}$ : 957942.3/25

All: 4621.784+/-0.654  $\chi^2/\text{NDF}$ : 2061872.6/51

- sign 4528.350+/-0.919  $\chi^2/\text{NDF}$ : 1083013.1/25

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



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

Left Out: 1025.500 $\pm$ 747.004  $\chi^2$ /NDF: 8.9/8

Right Out: -19.222 $\pm$ 747.810  $\chi^2$ /NDF: 13.3/18

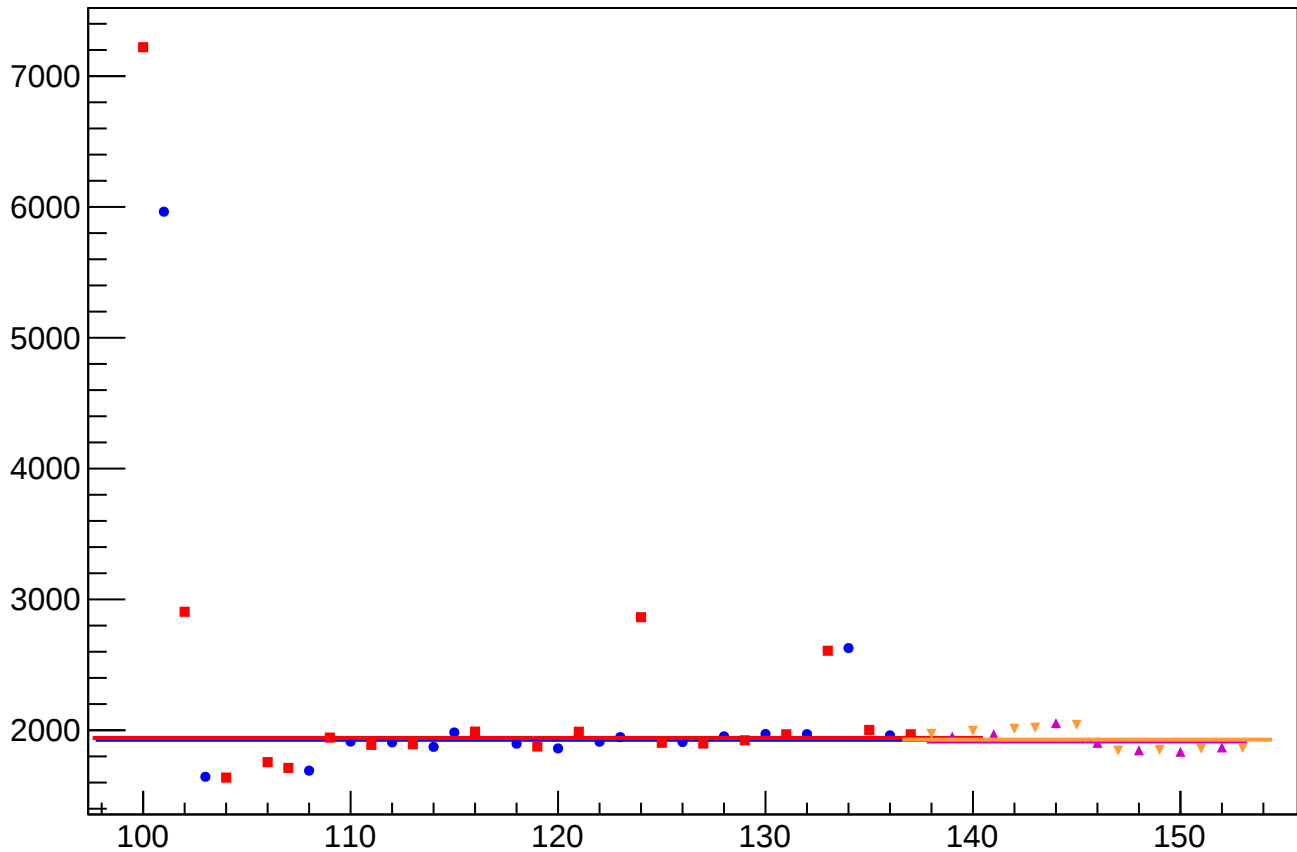
Left In: -252.884 $\pm$ 794.490  $\chi^2$ /NDF: 6.3/6

+ sign -0.709 $\pm$ 533.767  $\chi^2$ /NDF: 26.5/25

All: -63.567 $\pm$ 381.181  $\chi^2$ /NDF: 46.1/51

- sign -128.988 $\pm$ 544.536  $\chi^2$ /NDF: 19.6/25

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



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

Left Out: 1928.381+/-0.528  $\chi^2/\text{NDF}$ : 22060.7/8

+ sign 1927.652+/-0.377  $\chi^2/\text{NDF}$ : 639180.9/25

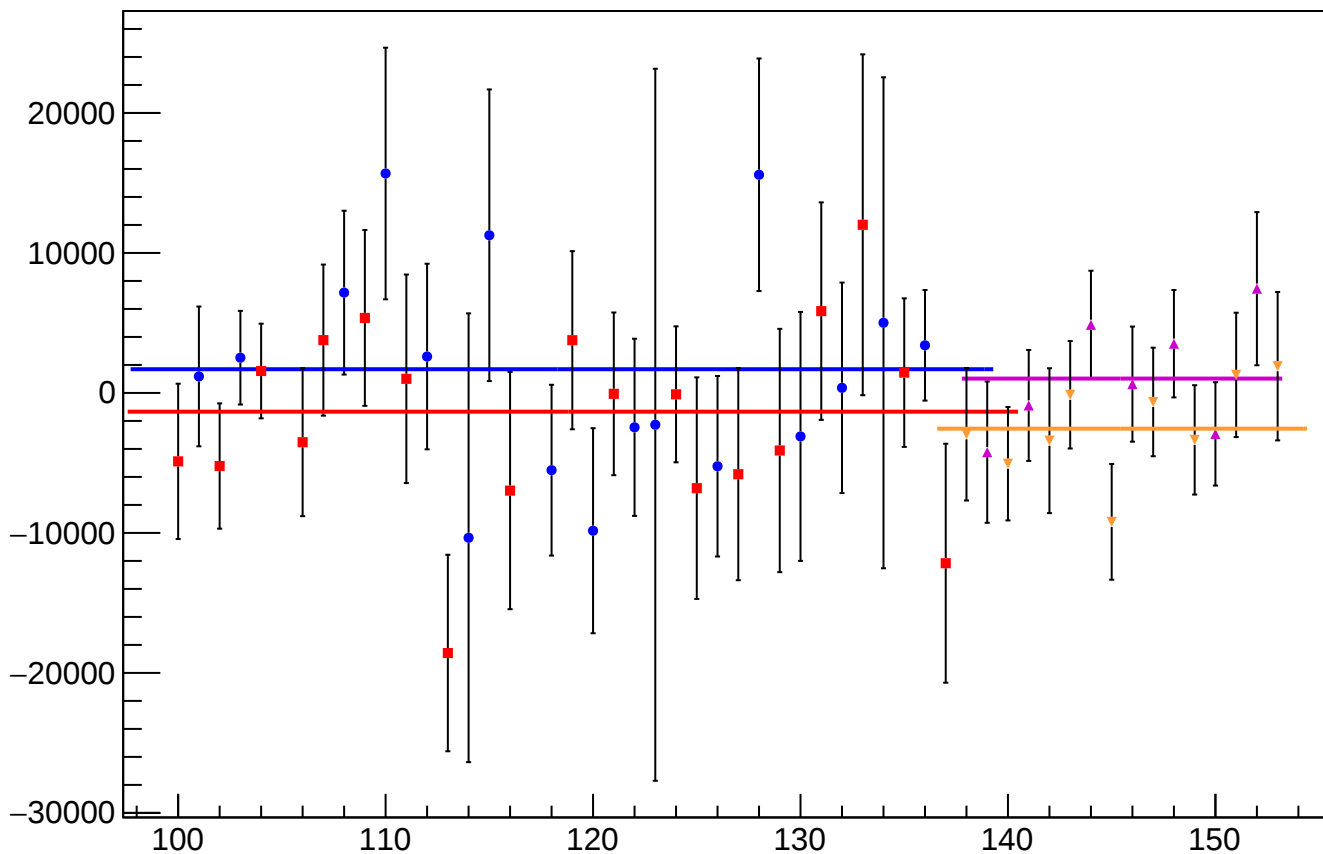
Right Out: 1941.261+/-0.528  $\chi^2/\text{NDF}$ : 304367.3/18

All: 1927.968+/-0.269  $\chi^2/\text{NDF}$ : 961128.6/51

- sign 1928.297+/-0.385  $\chi^2/\text{NDF}$ : 321946.3/25

Left In: 1913.642+/-0.562  $\chi^2/\text{NDF}$ : 16296.5/6

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



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

Left Out: -2552.054 $\pm$ 1432.030  $\chi^2$ /NDF: 5.2/8

Right Out: -1338.172 $\pm$ 1369.005  $\chi^2$ /NDF: 16.3/18

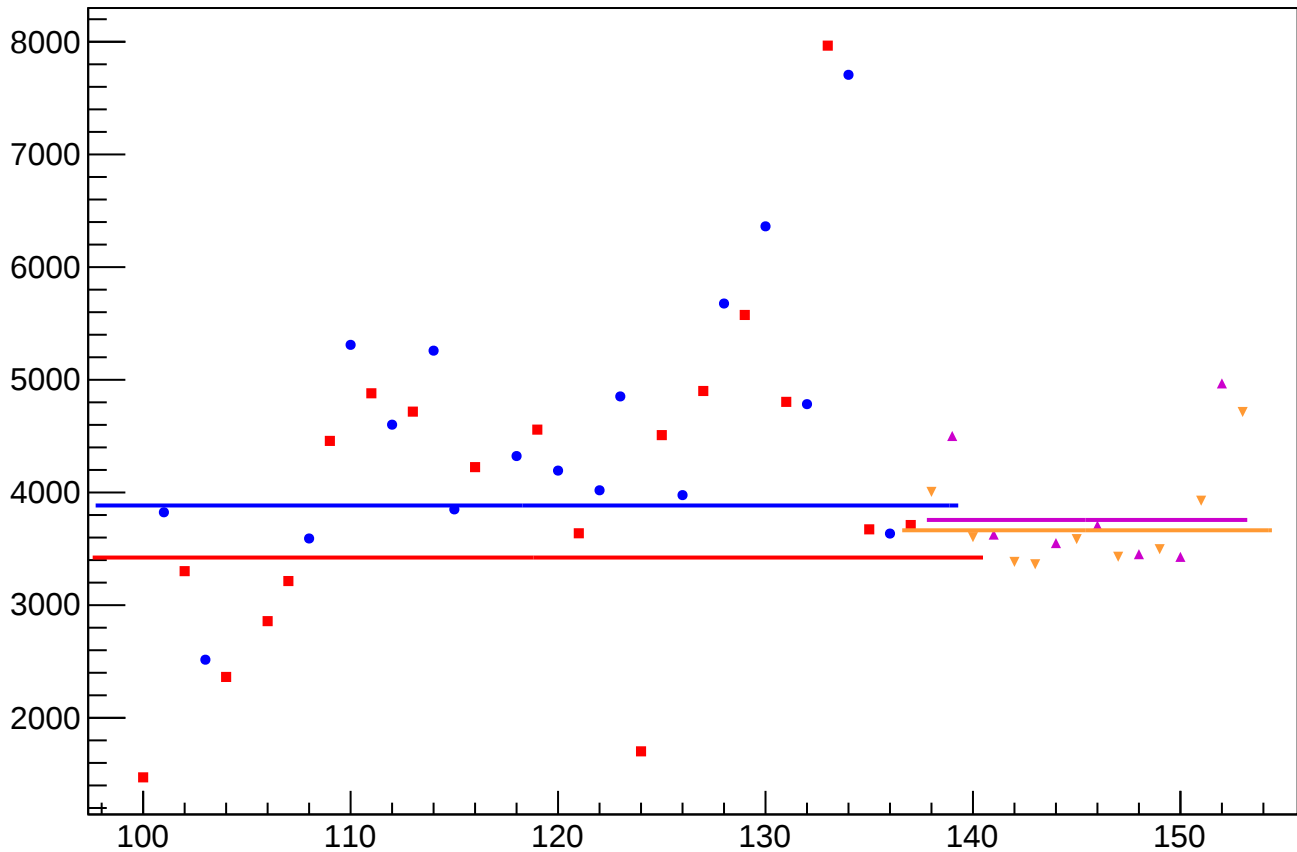
Left In: 1025.685 $\pm$ 1573.301  $\chi^2$ /NDF: 5.3/6

+ sign -599.396 $\pm$ 1052.440  $\chi^2$ /NDF: 22.8/25

All: -456.852 $\pm$ 737.131  $\chi^2$ /NDF: 45.7/51

- sign -319.589 $\pm$ 1032.761  $\chi^2$ /NDF: 22.9/25

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



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

Left Out: 3664.498+/-1.013  $\chi^2/\text{NDF}$ : 126224.4/8

+ sign 3765.720+/-0.744  $\chi^2/\text{NDF}$ : 974516.6/25

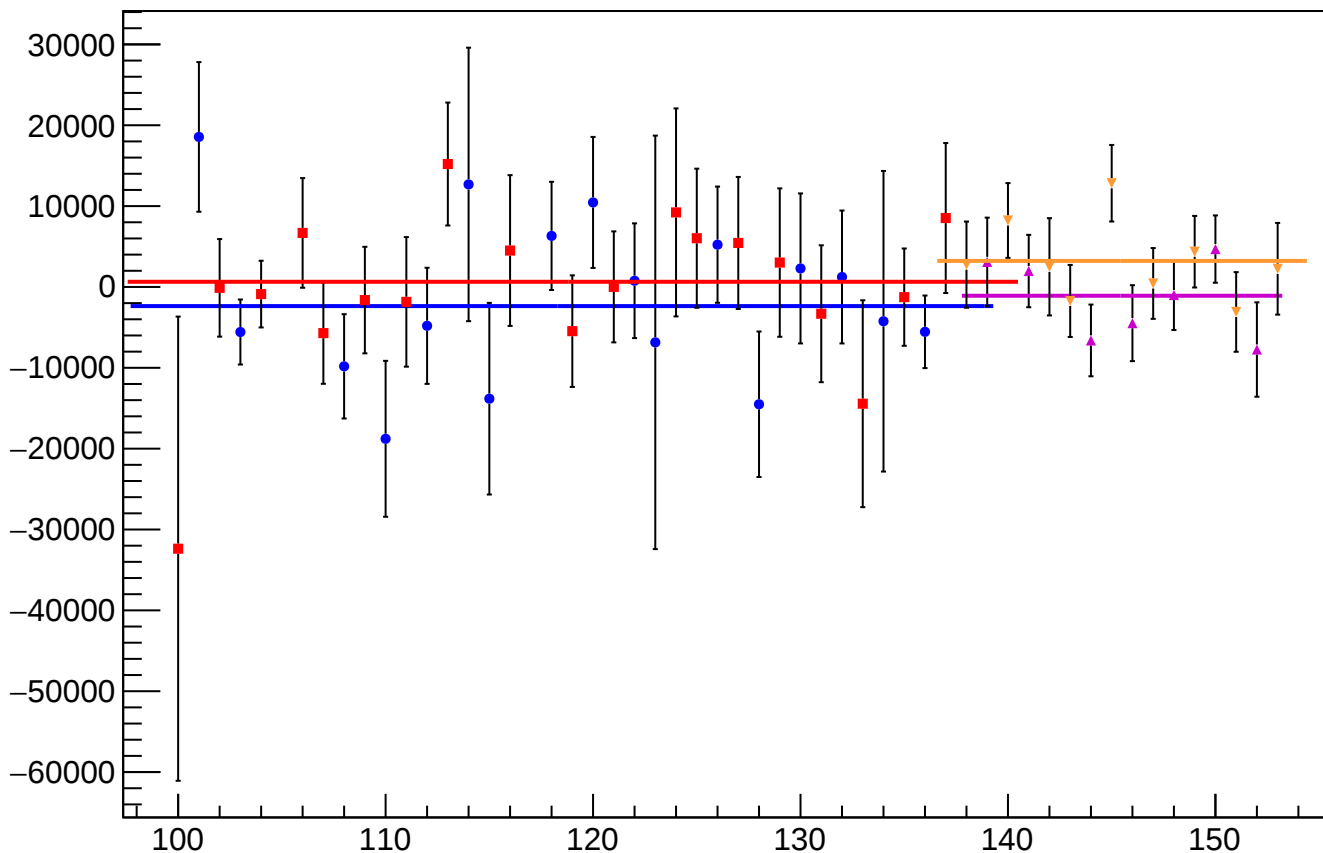
Right Out: 3422.628+/-0.968  $\chi^2/\text{NDF}$ : 1590296.5/18

All: 3664.191+/-0.521  $\chi^2/\text{NDF}$ : 2830648.6/51

- sign 3566.424+/-0.730  $\chi^2/\text{NDF}$ : 1819595.9/25

Left In: 3756.339+/-1.112  $\chi^2/\text{NDF}$ : 178091.7/6

# asym\_atr\_dd\_mean vs Slug



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

Left Out:  $3219.400 \pm 1621.891$   $\chi^2/\text{NDF}$ : 8.7/8

Right Out:  $640.916 \pm 1690.165$   $\chi^2/\text{NDF}$ : 11.8/18

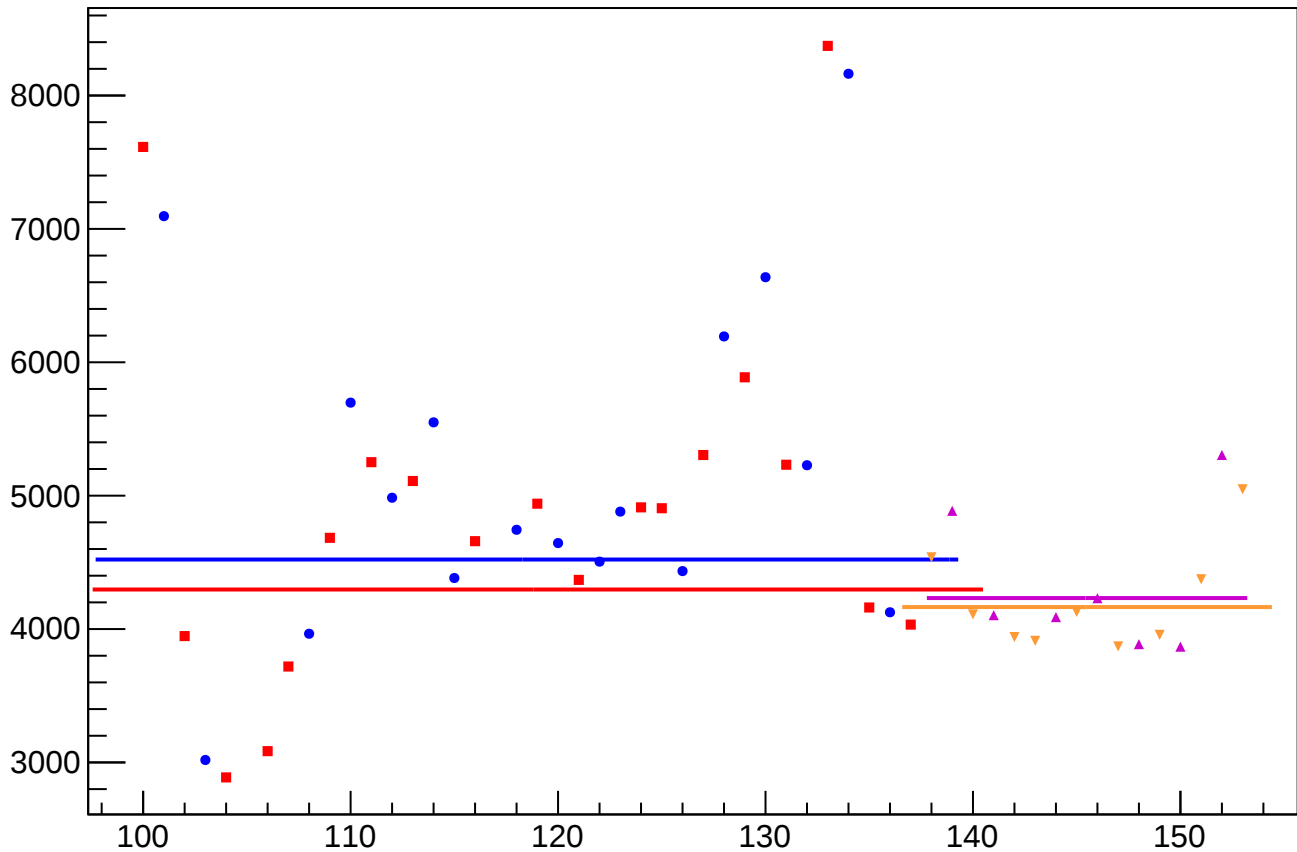
Left In:  $-1087.962 \pm 1767.587$   $\chi^2/\text{NDF}$ : 6.3/6

+ sign  $718.930 \pm 1205.495$   $\chi^2/\text{NDF}$ : 34.1/25

All:  $273.039 \pm 858.044$   $\chi^2/\text{NDF}$ : 53.1/51

- sign  $-184.832 \pm 1221.581$   $\chi^2/\text{NDF}$ : 18.7/25

# asym\_atr\_dd\_rms vs Slug



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

Left Out: 4164.838+/-1.147  $\chi^2/\text{NDF}$ : 85035.9/8

Right Out: 4296.482+/-1.189  $\chi^2/\text{NDF}$ : 773210.4/18

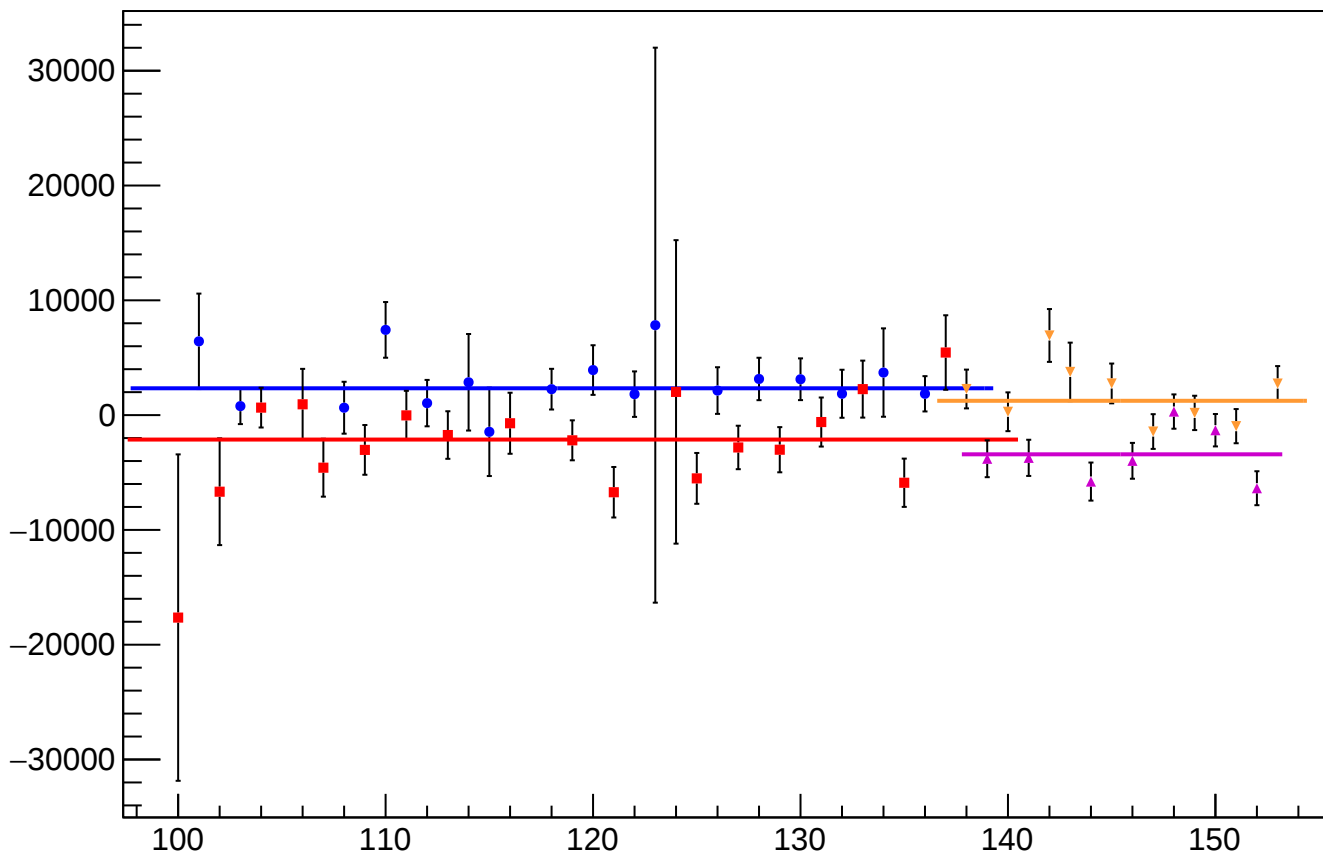
Left In: 4232.432+/-1.250  $\chi^2/\text{NDF}$ : 127894.5/6

+ sign 4324.344+/-0.852  $\chi^2/\text{NDF}$ : 906931.5/25

All: 4295.507+/-0.606  $\chi^2/\text{NDF}$ : 1811728.3/51

- sign 4266.068+/-0.861  $\chi^2/\text{NDF}$ : 902484.0/25

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



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

Left Out: 1247.278 $\pm$ 564.062  $\chi^2$ /NDF:15.3/8

Right Out: -2129.457 $\pm$ 539.223  $\chi^2$ /NDF: 27.5/18

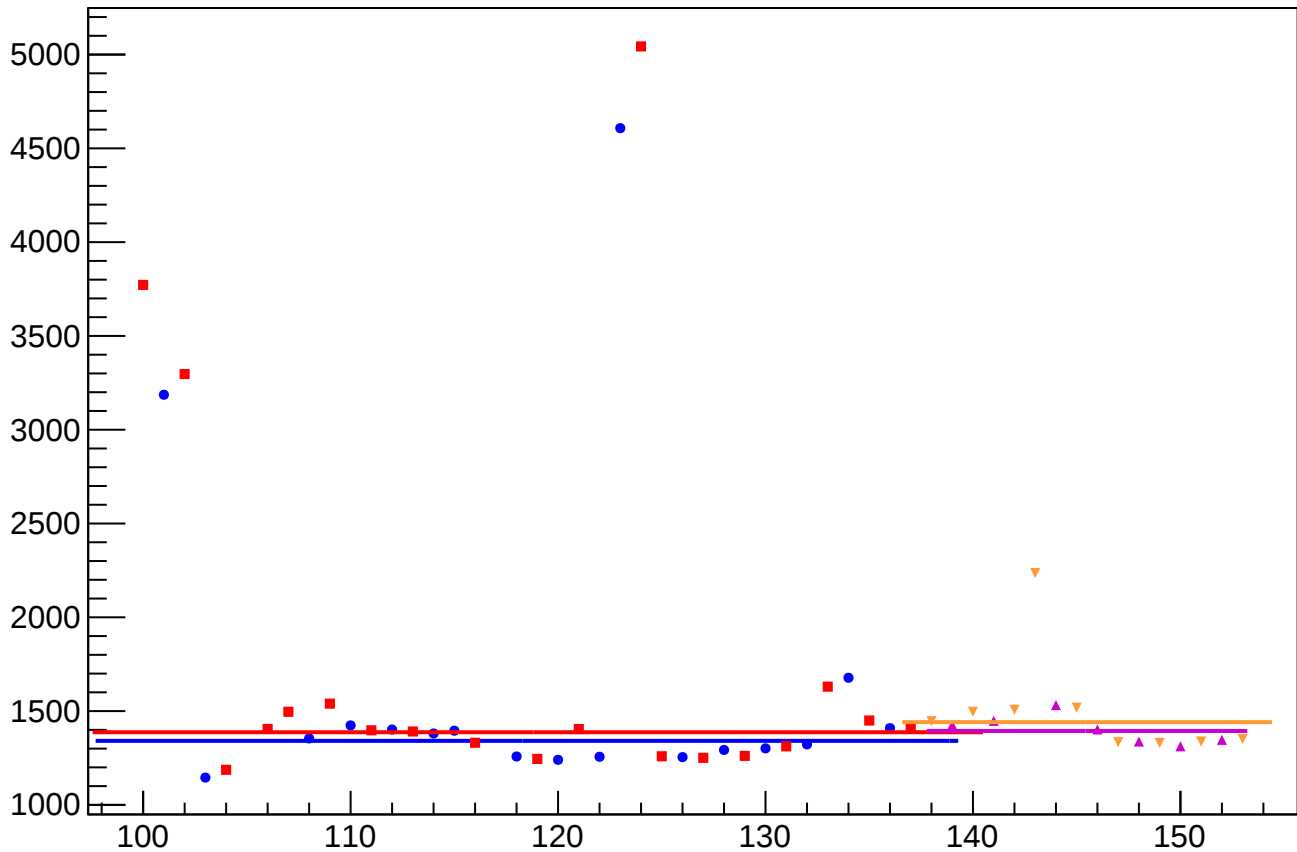
Left In: -3414.736 $\pm$ 580.112  $\chi^2$ /NDF:14.7/6

+ sign 1824.861 $\pm$ 386.685  $\chi^2$ /NDF: 27.0/25

All: -402.047 $\pm$ 276.304  $\chi^2$ /NDF: 139.6/51

- sign -2725.208 $\pm$ 394.953  $\chi^2$ /NDF: 44.9/25

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



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

Left Out: 1441.175 $\pm$ 0.399  $\chi^2/\text{NDF}$ : 239517.4/8

Right Out: 1387.348 $\pm$ 0.381  $\chi^2/\text{NDF}$ : 650193.3/18

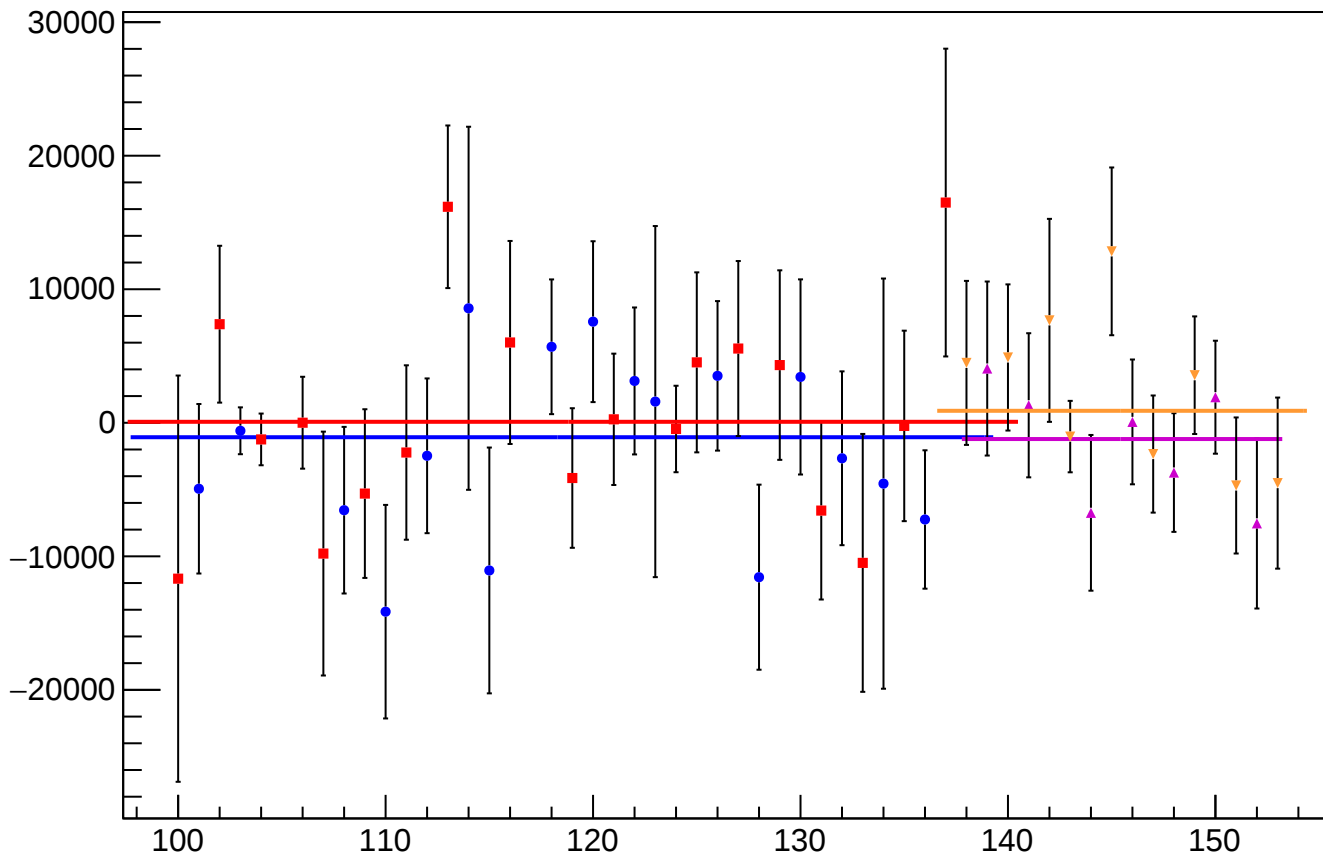
Left In: 1394.116 $\pm$ 0.410  $\chi^2/\text{NDF}$ : 28623.2/6

+ sign 1388.276 $\pm$ 0.273  $\chi^2/\text{NDF}$ : 776975.8/25

All: 1389.357 $\pm$ 0.195  $\chi^2/\text{NDF}$ : 1455970.3/51

- sign 1390.484 $\pm$ 0.279  $\chi^2/\text{NDF}$ : 678962.5/25

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: 897.592+/-1563.965  $\chi^2/\text{NDF}$ : 8.6/8

Right Out: 74.089+/-1126.219  $\chi^2/\text{NDF}$ : 18.6/18

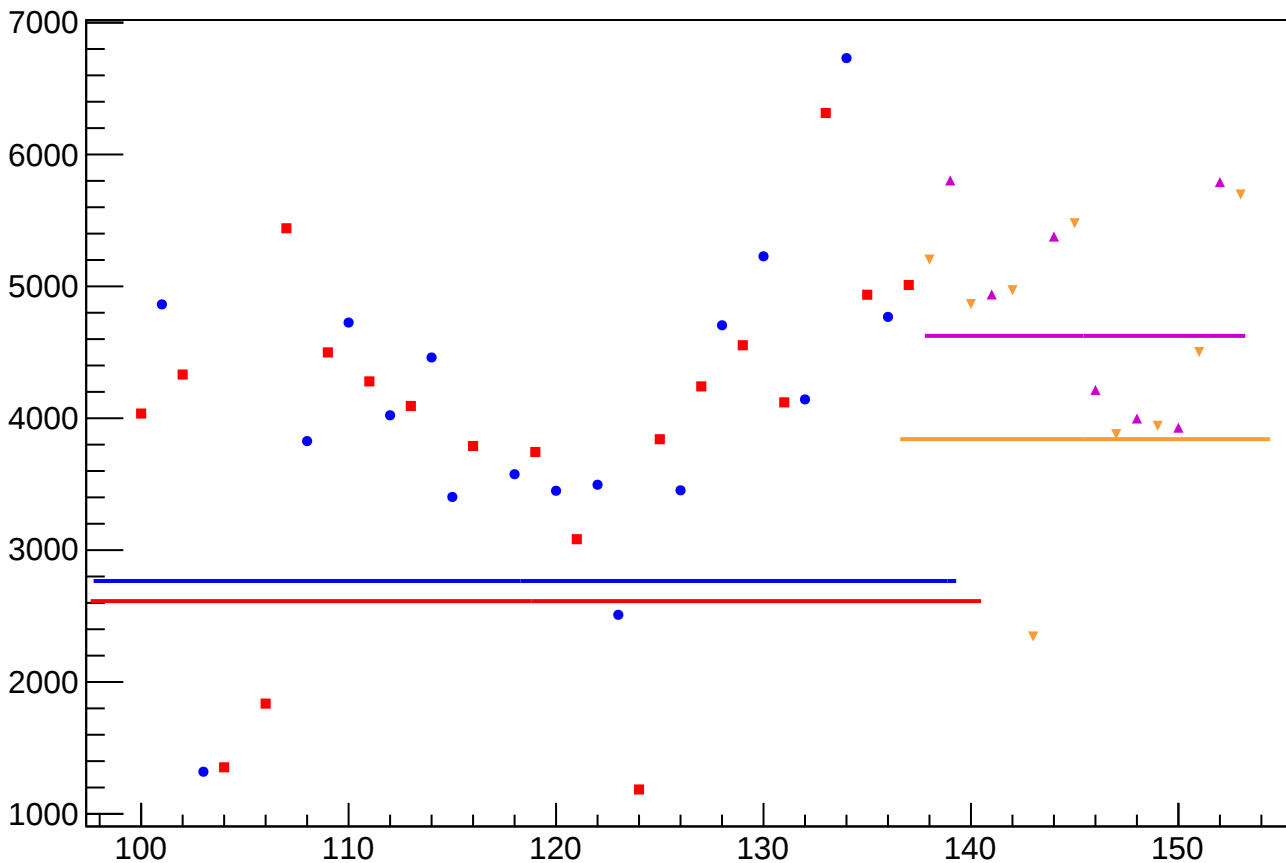
Left In: -1216.867+/-1945.304  $\chi^2/\text{NDF}$ : 3.7/6

+ sign -338.333+/-958.194  $\chi^2/\text{NDF}$ : 24.6/25

All: -294.912+/-683.293  $\chi^2/\text{NDF}$ : 47.3/51

- sign -249.985+/-974.661  $\chi^2/\text{NDF}$ : 22.7/25

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



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

Left Out: 3841.470+/-1.106  $\chi^2/\text{NDF}$ : 1176959.3/8

Right Out: 2613.368+/-0.796  $\chi^2/\text{NDF}$ : 3339918.9/18

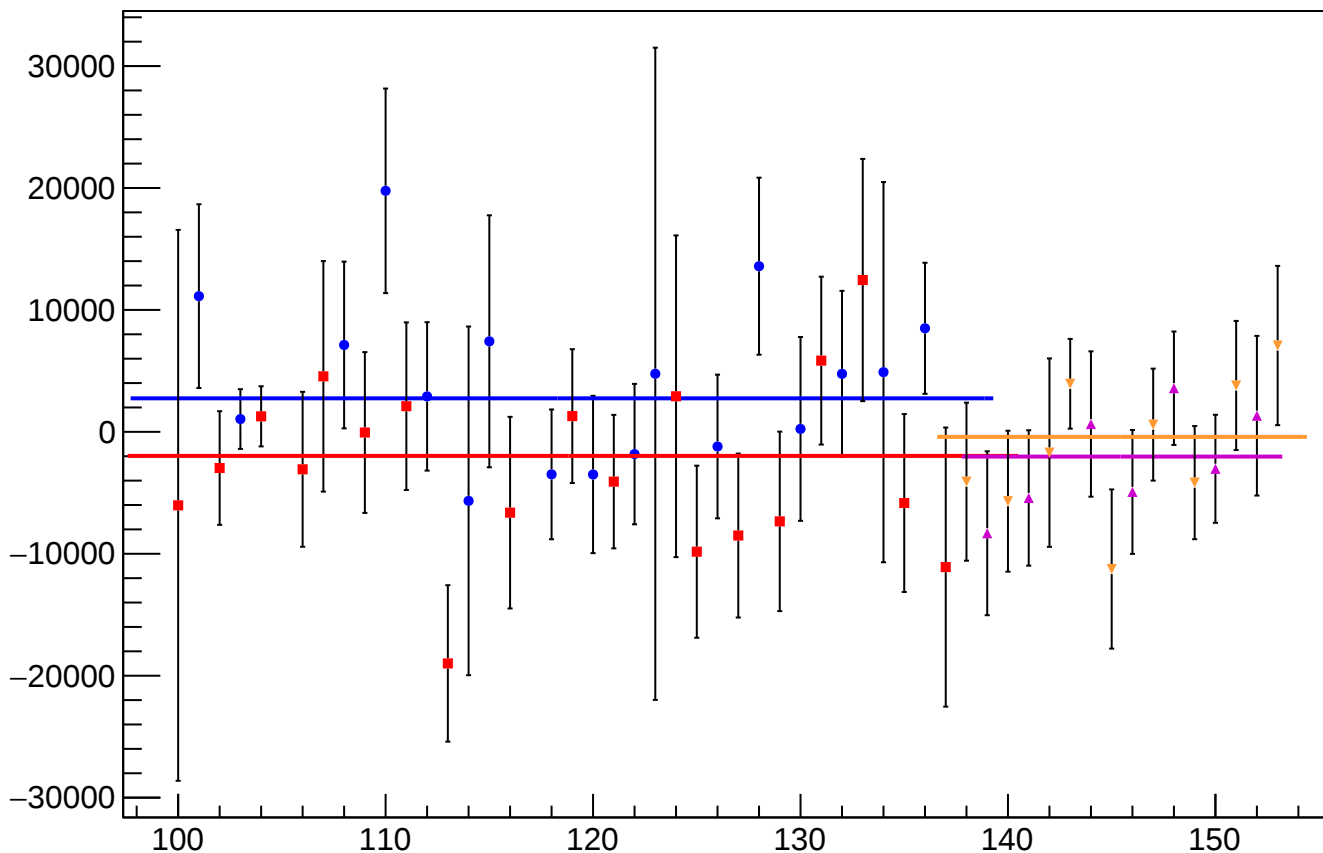
Left In: 4624.625+/-1.376  $\chi^2/\text{NDF}$ : 281817.4/6

+ sign 3169.528+/-0.678  $\chi^2/\text{NDF}$ : 4707076.7/25

All: 3144.332+/-0.483  $\chi^2/\text{NDF}$ : 9932852.1/51

- sign 3118.262+/-0.689  $\chi^2/\text{NDF}$ : 5222961.6/25

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



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

Left Out: -413.642+/-1765.631  $\chi^2/\text{NDF}$ : 8.0/8

Right Out: -1971.156+/-1381.709  $\chi^2/\text{NDF}$ : 17.8/18

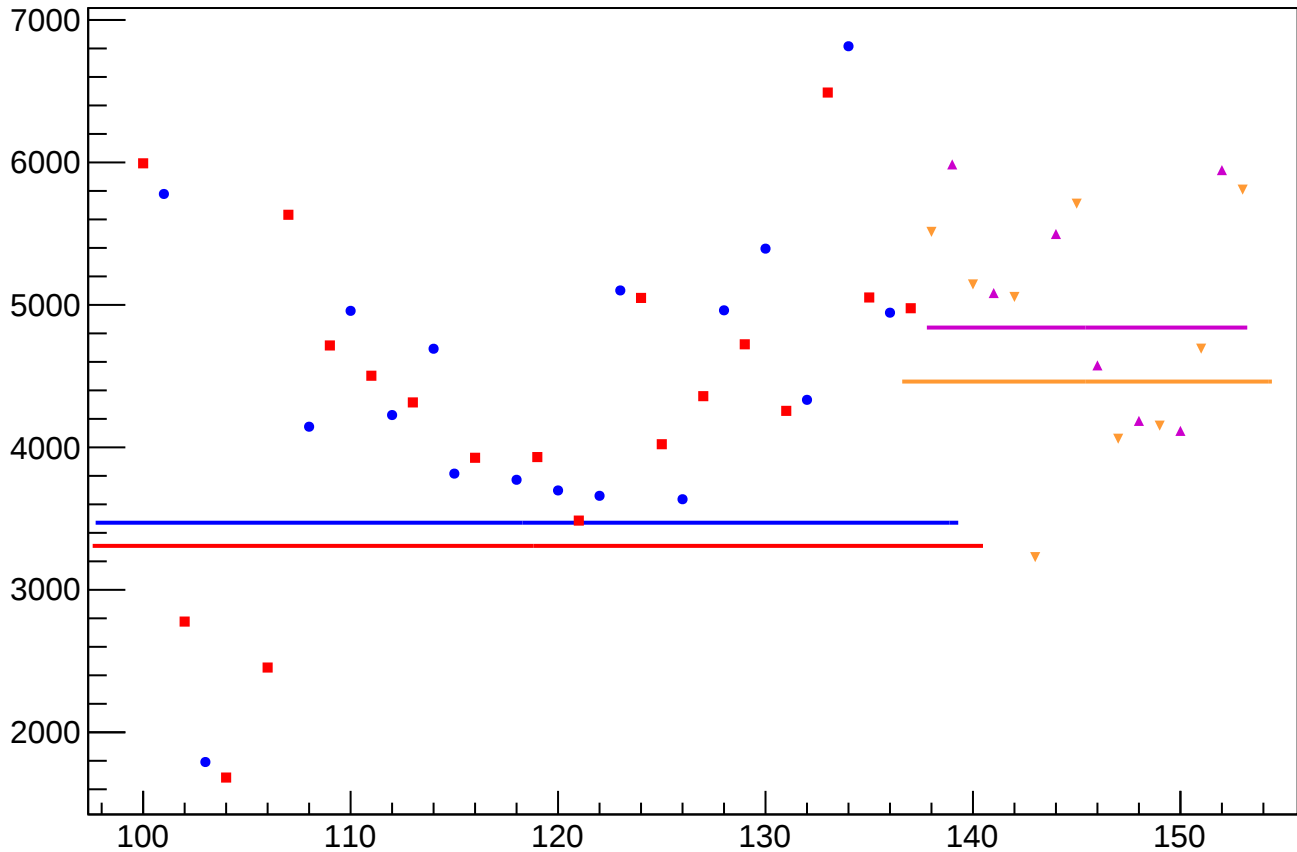
Left In: -2028.928+/-2033.161  $\chi^2/\text{NDF}$ : 3.5/6

+ sign 1478.245+/-1119.005  $\chi^2/\text{NDF}$ : 23.7/25

All: -219.117+/-799.533  $\chi^2/\text{NDF}$ : 49.7/51

- sign -1989.408+/-1142.791  $\chi^2/\text{NDF}$ : 21.4/25

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



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

Left Out: 4461.949+/-1.248  $\chi^2/\text{NDF}$ : 502801.1/8

Right Out: 3308.555+/-0.968  $\chi^2/\text{NDF}$ : 1914383.5/18

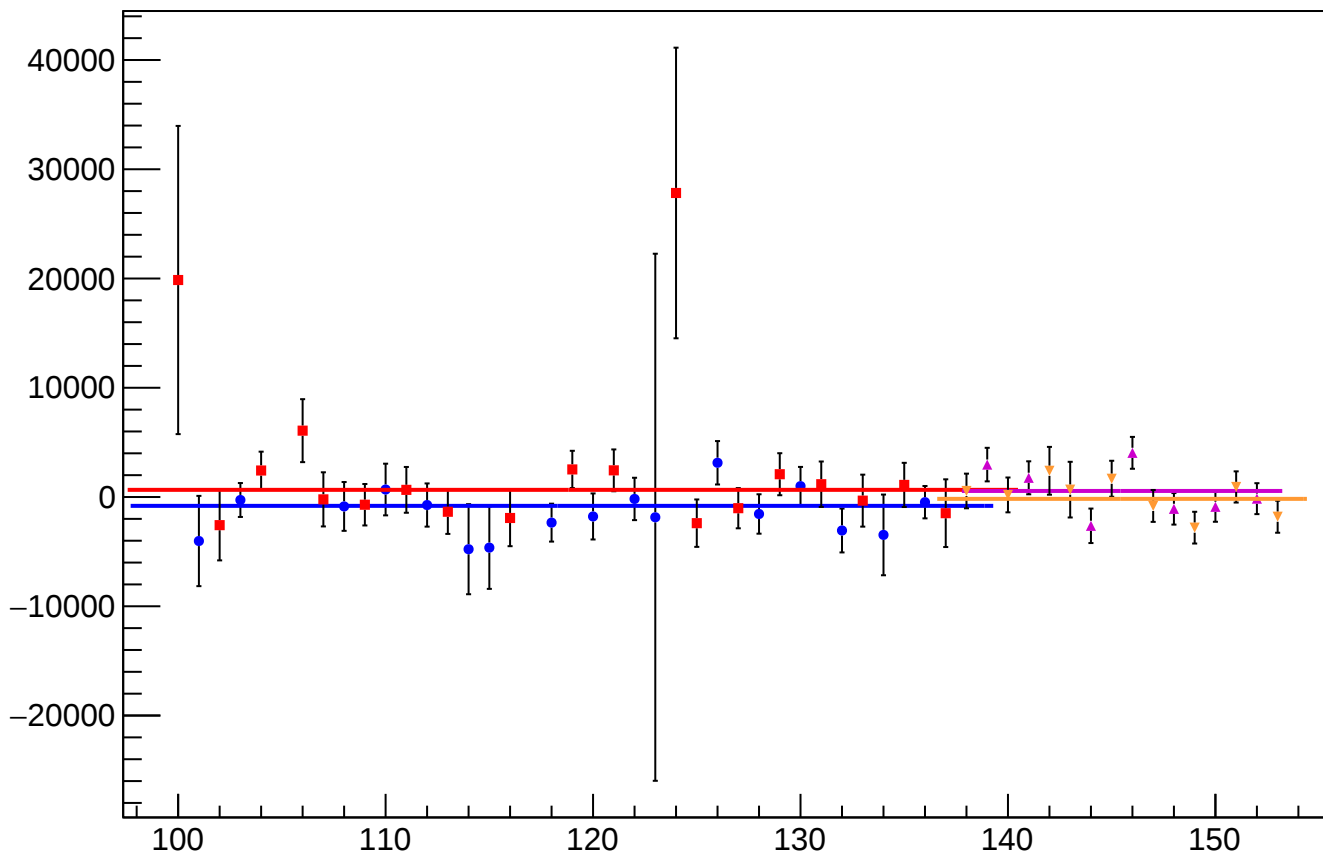
Left In: 4840.928+/-1.438  $\chi^2/\text{NDF}$ : 241834.6/6

+ sign 3869.110+/-0.791  $\chi^2/\text{NDF}$ : 2647528.7/25

All: 3828.472+/-0.564  $\chi^2/\text{NDF}$ : 5590764.1/51

- sign 3786.617+/-0.803  $\chi^2/\text{NDF}$ : 2937880.8/25

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



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

Left Out: -168.946+/-540.602  $\chi^2/\text{NDF}$ : 8.3/8

Right Out: 656.248+/-514.588  $\chi^2/\text{NDF}$ : 20.4/18

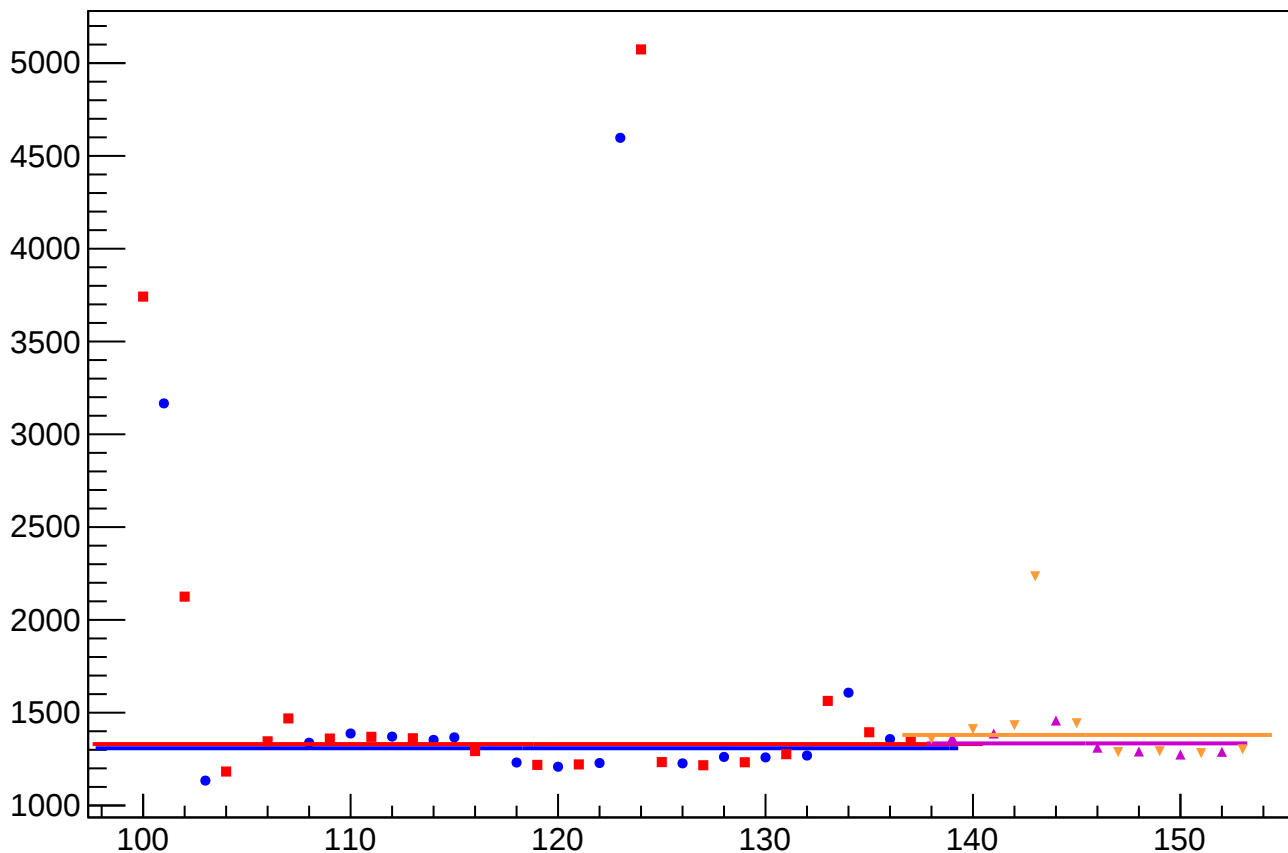
Left In: 554.988+/-555.076  $\chi^2/\text{NDF}$ : 15.6/6

+ sign -502.524+/-374.088  $\chi^2/\text{NDF}$ : 20.2/25

All: 48.602+/-265.673  $\chi^2/\text{NDF}$ : 60.6/51

- sign 609.445+/-377.371  $\chi^2/\text{NDF}$ : 36.0/25

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



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

Left Out: 1380.098+/-0.382  $\chi^2/\text{NDF}$ : 260549.9/8

Right Out: 1330.860+/-0.364  $\chi^2/\text{NDF}$ : 415845.6/18

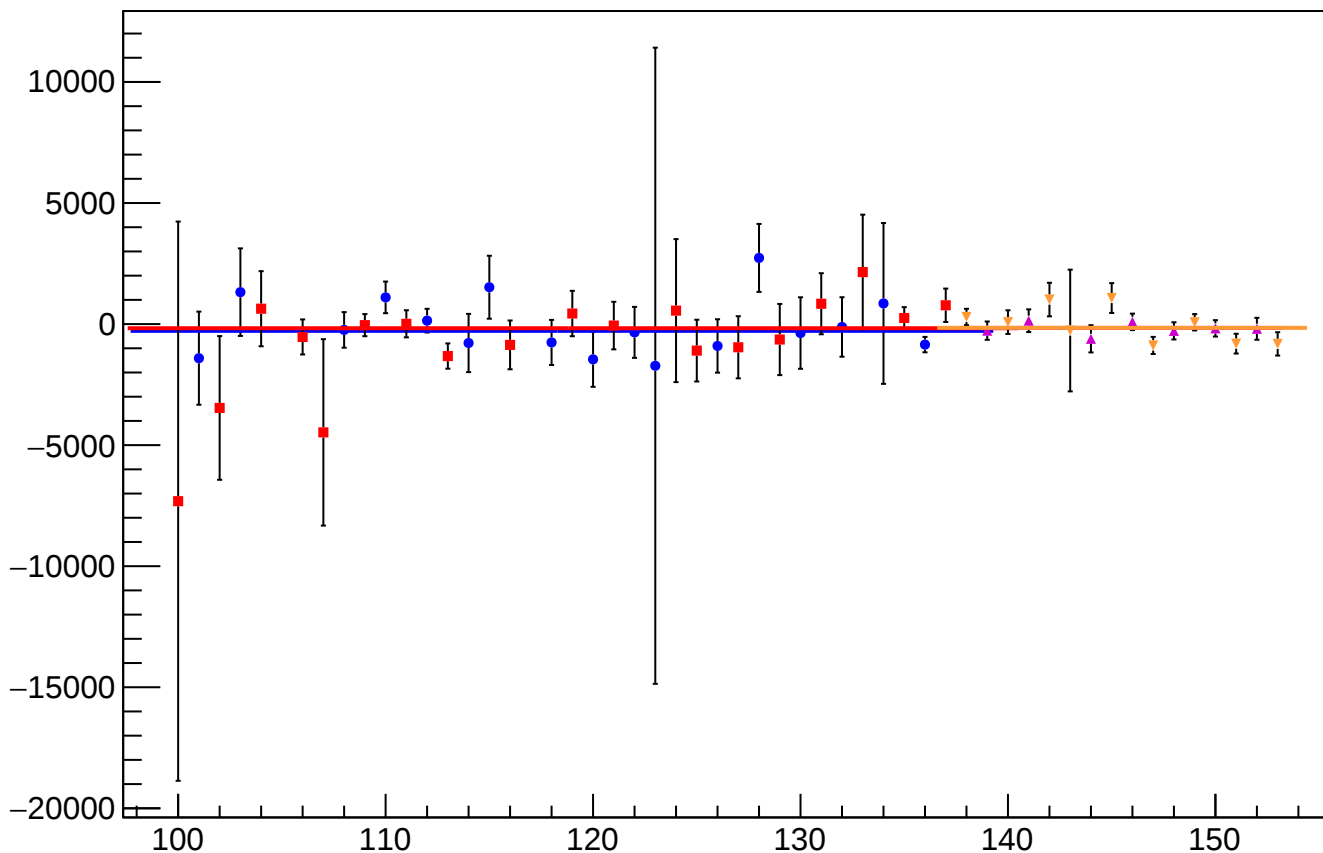
Left In: 1334.519+/-0.392  $\chi^2/\text{NDF}$ : 23671.4/6

+ sign 1342.714+/-0.265  $\chi^2/\text{NDF}$ : 785446.1/25

All: 1337.677+/-0.188  $\chi^2/\text{NDF}$ : 1225741.4/51

- sign 1332.551+/-0.267  $\chi^2/\text{NDF}$ : 439563.7/25

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:  $-155.303 \pm 149.202$   $\chi^2/\text{NDF}$ : 18.0/8

Right Out:  $-171.593 \pm 192.461$   $\chi^2/\text{NDF}$ : 14.7/18

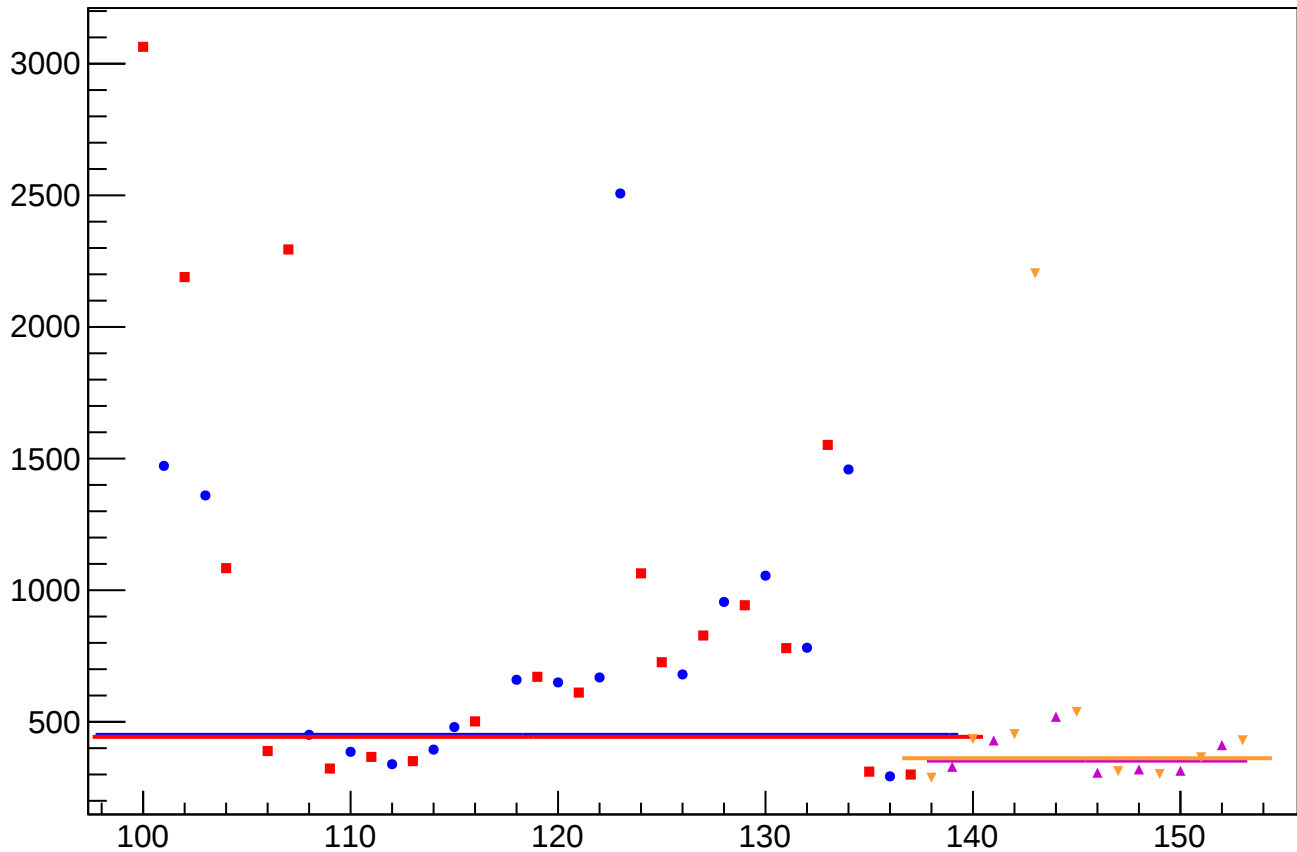
Left In:  $-158.447 \pm 149.256$   $\chi^2/\text{NDF}$ : 1.8/6

+ sign  $-199.963 \pm 119.185$   $\chi^2/\text{NDF}$ : 36.3/25

All:  $-181.482 \pm 83.835$   $\chi^2/\text{NDF}$ : 52.9/51

- sign  $-163.384 \pm 117.945$   $\chi^2/\text{NDF}$ : 16.5/25

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



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

Left Out: 361.705 $\pm$ 0.106  $\chi^2$ /NDF:1553743.5/8

+ sign 393.874 $\pm$ 0.084  $\chi^2$ /NDF: 4808377.5/25

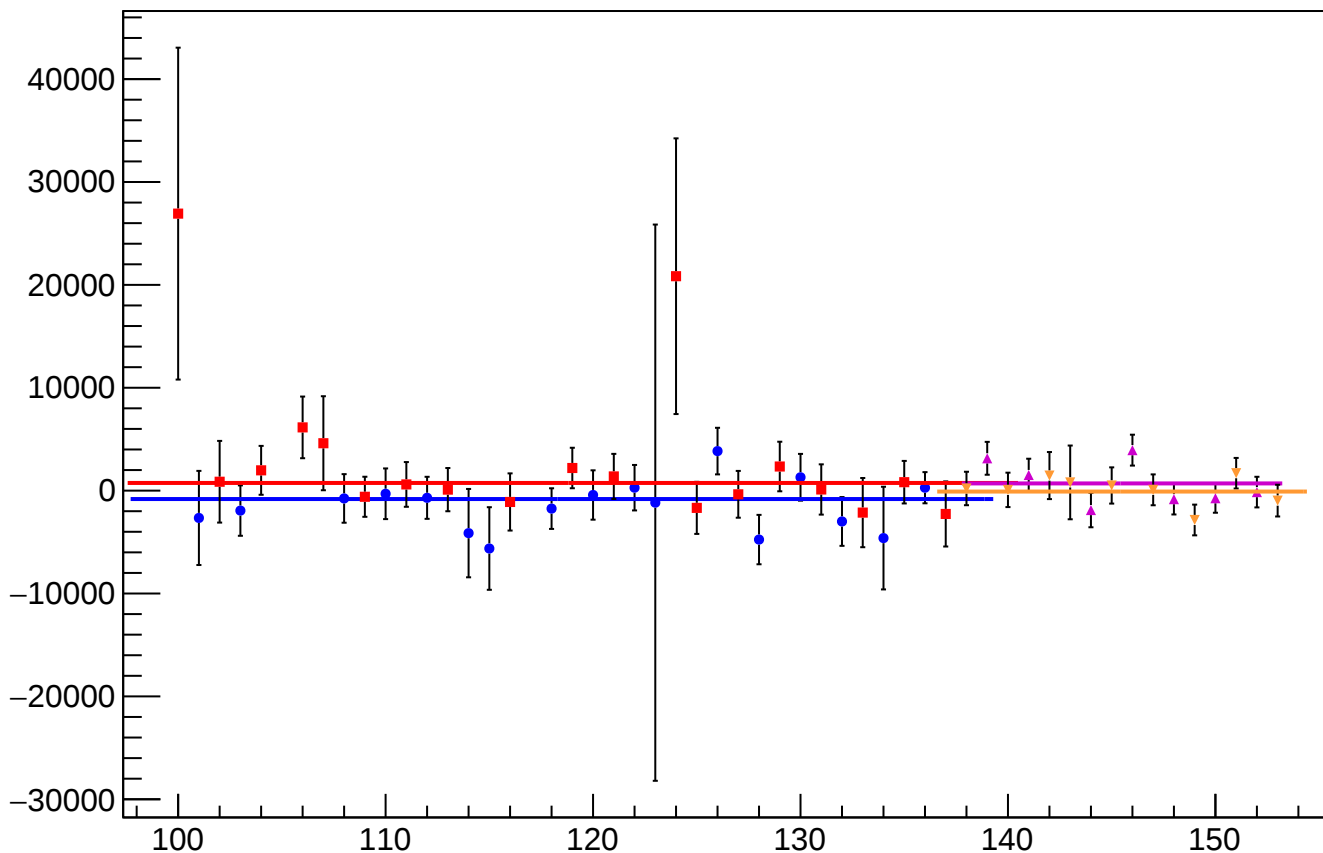
Right Out: 443.096 $\pm$ 0.136  $\chi^2$ /NDF: 3471372.7/18

All: 390.231 $\pm$ 0.059  $\chi^2$ /NDF: 8908600.2/51

- sign 386.664 $\pm$ 0.083  $\chi^2$ /NDF: 4096525.0/25

Left In: 352.725 $\pm$ 0.106  $\chi^2$ /NDF:349795.2/6

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



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

Left Out: -89.330+/-568.527  $\chi^2/\text{NDF}$ : 5.9/8

Right Out: 746.365+/-595.659  $\chi^2/\text{NDF}$ : 14.1/18

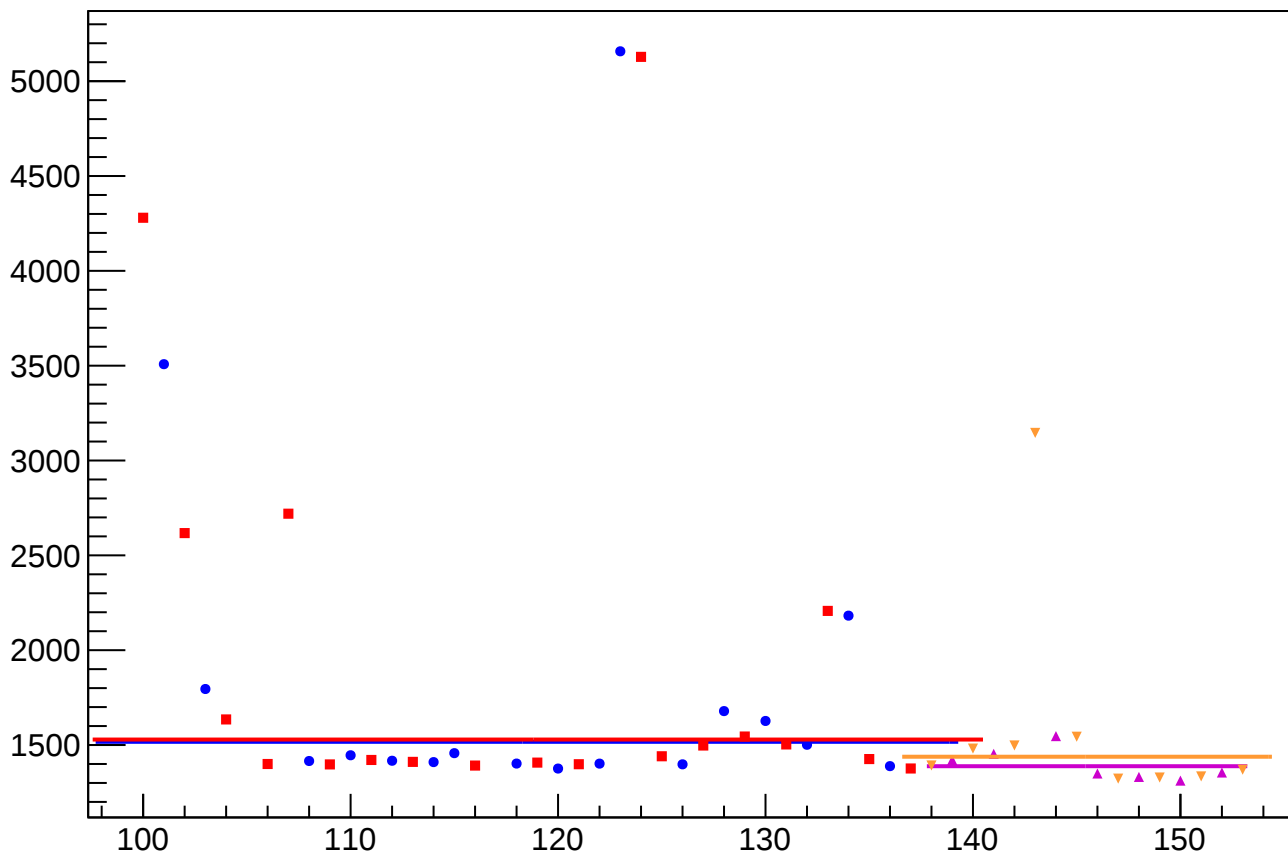
Left In: 701.424+/-577.636  $\chi^2/\text{NDF}$ : 12.1/6

+ sign -432.938+/-413.061  $\chi^2/\text{NDF}$ : 19.4/25

All: 142.878+/-292.647  $\chi^2/\text{NDF}$ : 49.4/51

- sign 723.204+/-414.675  $\chi^2/\text{NDF}$ : 26.1/25

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



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

Left Out: 1438.267+/-0.402  $\chi^2/\text{NDF}$ : 501723.8/8

Right Out: 1528.856+/-0.421  $\chi^2/\text{NDF}$ : 630181.6/18

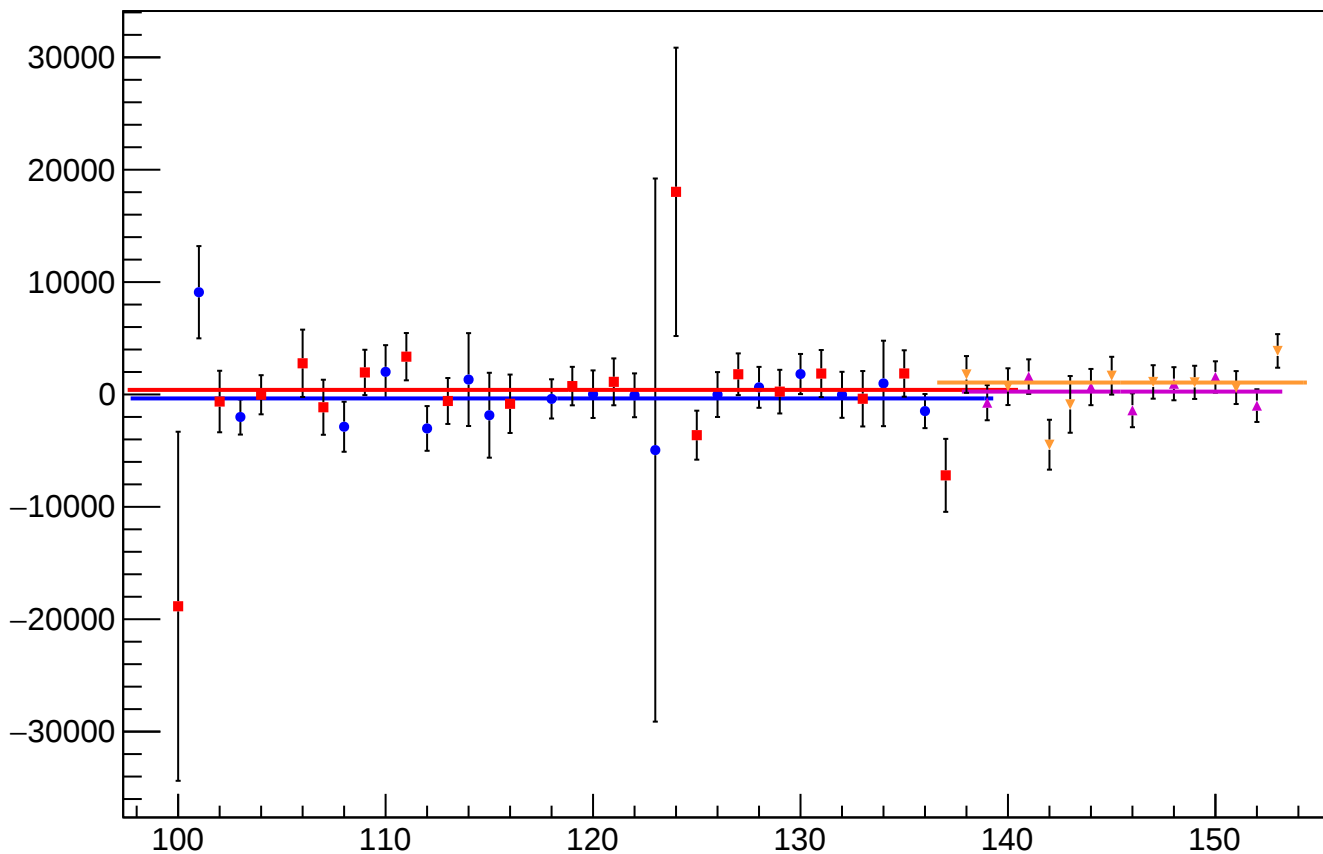
Left In: 1388.269+/-0.408  $\chi^2/\text{NDF}$ : 33197.7/6

+ sign 1475.409+/-0.292  $\chi^2/\text{NDF}$ : 1060843.1/25

All: 1465.943+/-0.207  $\chi^2/\text{NDF}$ : 1783747.6/51

- sign 1456.404+/-0.293  $\chi^2/\text{NDF}$ : 720795.9/25

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:  $1061.701 \pm 551.920$   $\chi^2/\text{NDF}$ : 10.8/8

Right Out:  $407.388 \pm 522.047$   $\chi^2/\text{NDF}$ : 18.4/18

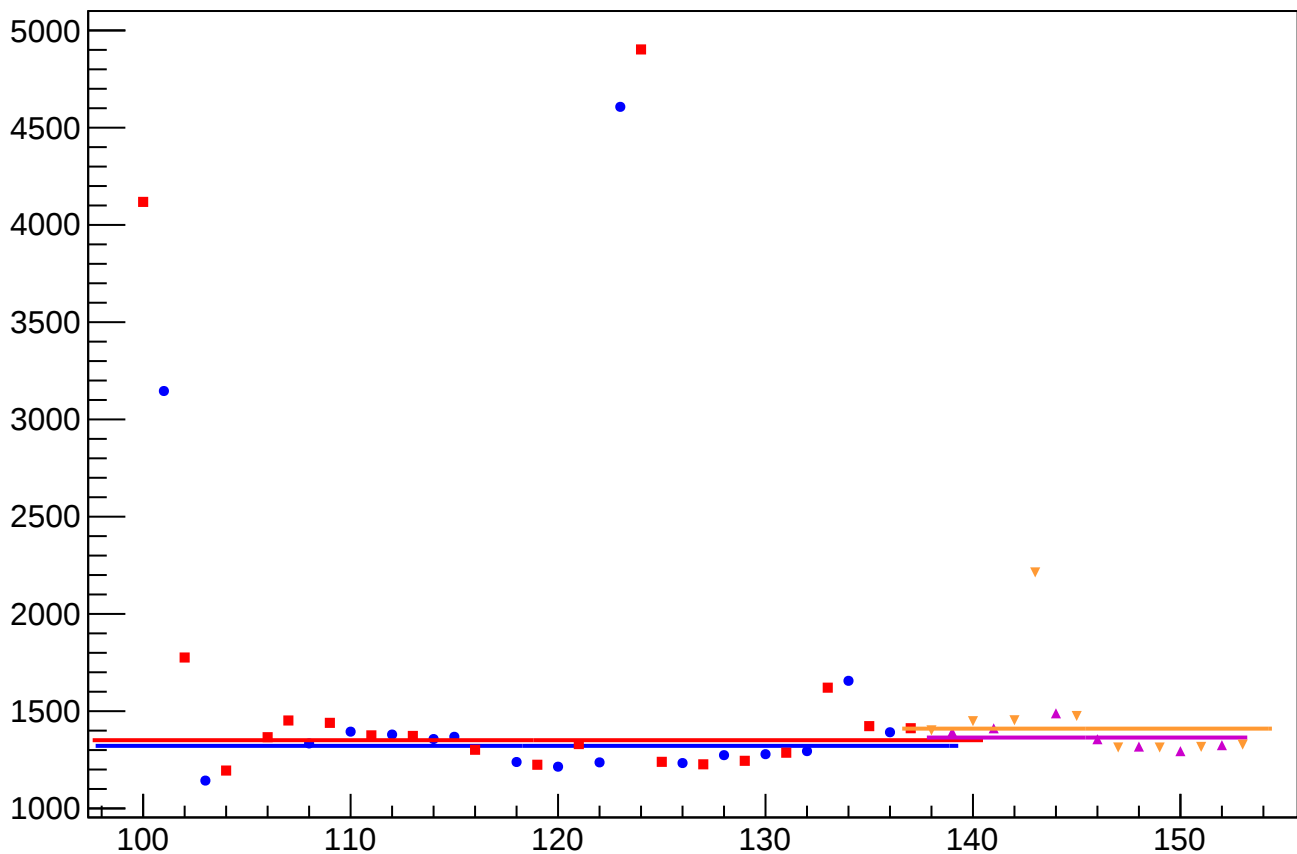
Left In:  $254.426 \pm 567.439$   $\chi^2/\text{NDF}$ : 4.3/6

+ sign  $316.684 \pm 379.753$   $\chi^2/\text{NDF}$ : 27.7/25

All:  $326.857 \pm 270.081$   $\chi^2/\text{NDF}$ : 50.4/51

- sign  $337.269 \pm 384.189$   $\chi^2/\text{NDF}$ : 22.7/25

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: 1410.260+/-0.390  $\chi^2/\text{NDF}$ : 238807.3/8

Right Out: 1350.773+/-0.369  $\chi^2/\text{NDF}$ : 349883.8/18

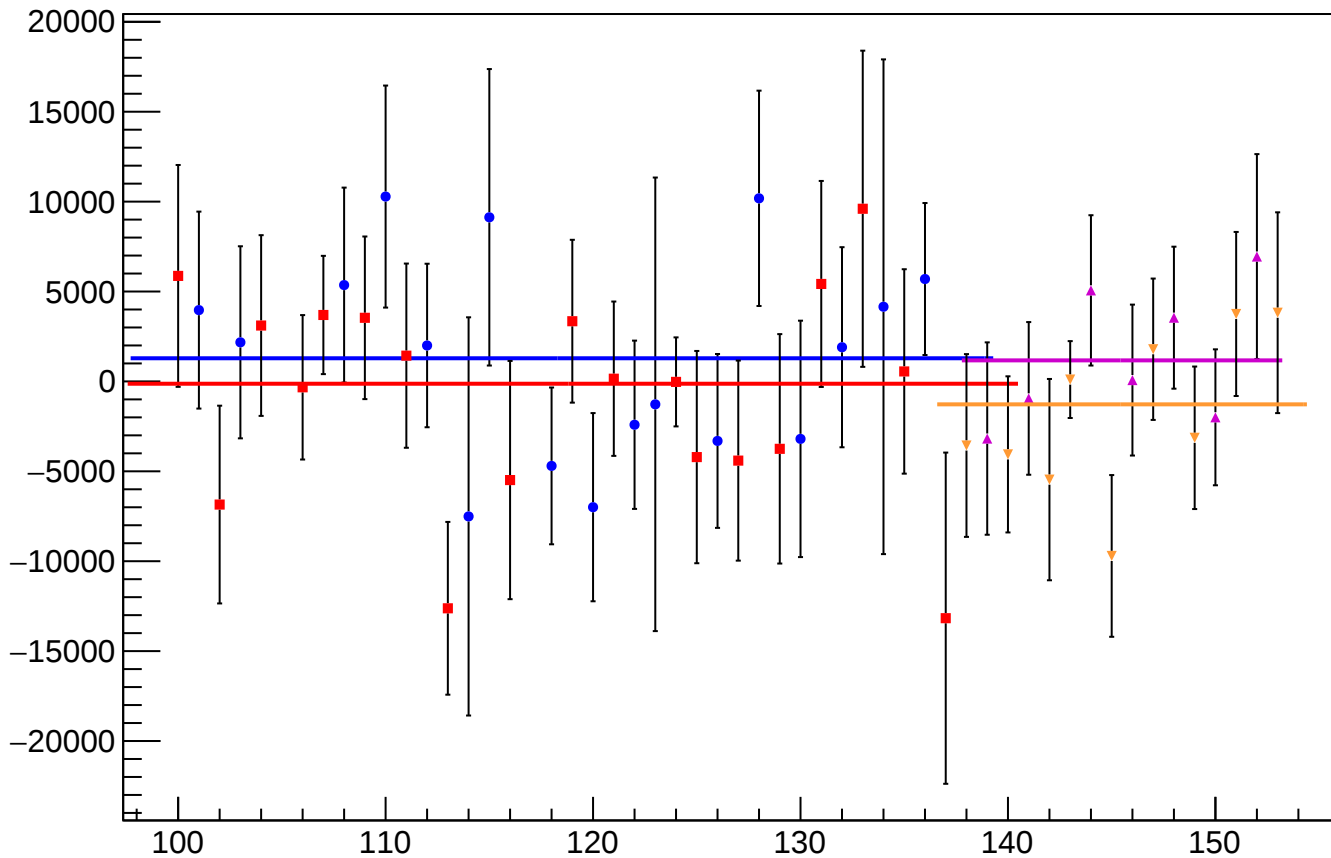
Left In: 1364.376+/-0.401  $\chi^2/\text{NDF}$ : 23058.1/6

+ sign 1363.628+/-0.269  $\chi^2/\text{NDF}$ : 768166.7/25

All: 1360.354+/-0.191  $\chi^2/\text{NDF}$ : 1142032.1/51

- sign 1357.005+/-0.272  $\chi^2/\text{NDF}$ : 373564.8/25

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: -1275.669+/-1290.578  $\chi^2/\text{NDF}$ : 8.0/8

Right Out: -128.973+/-1088.247  $\chi^2/\text{NDF}$ : 18.5/18

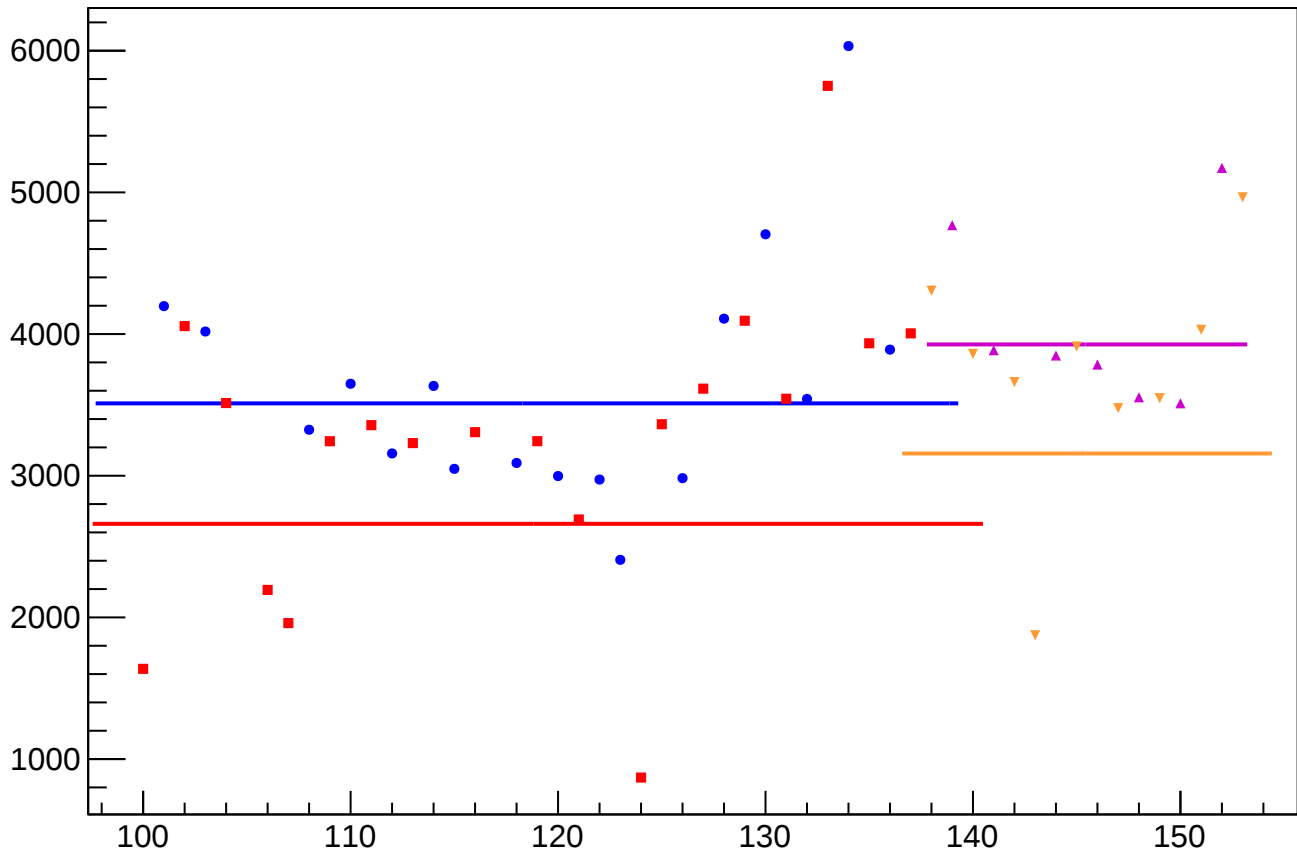
Left In: 1170.201+/-1645.507  $\chi^2/\text{NDF}$ : 3.9/6

+ sign -75.976+/-941.280  $\chi^2/\text{NDF}$ : 24.1/25

All: 101.403+/-653.390  $\chi^2/\text{NDF}$ : 47.1/51

- sign 266.350+/-907.700  $\chi^2/\text{NDF}$ : 22.9/25

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: 3157.086 $\pm$ 0.913  $\chi^2$ /NDF: 1263122.3/8

Right Out: 2660.636 $\pm$ 0.770  $\chi^2$ /NDF: 2182658.0/18

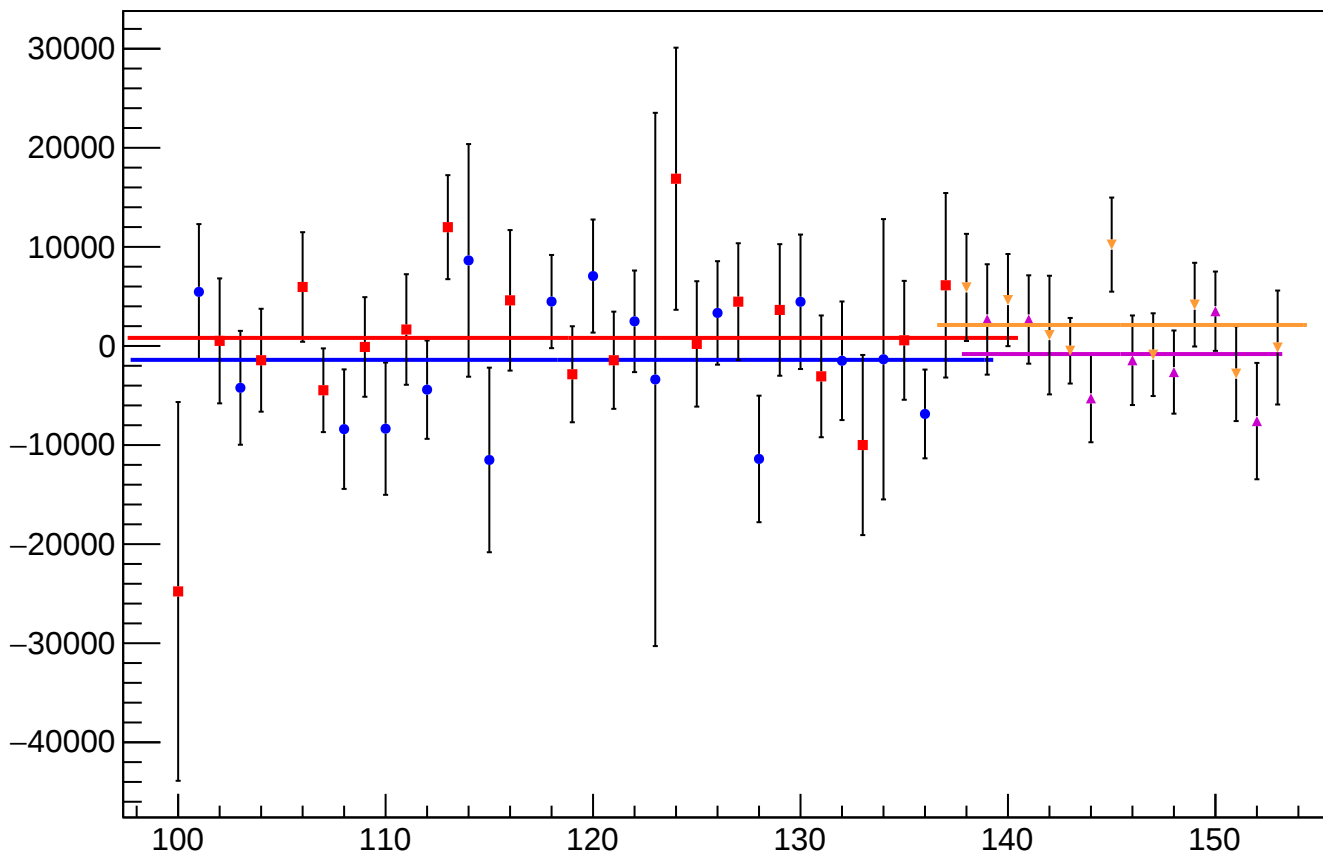
Left In: 3926.882 $\pm$ 1.164  $\chi^2$ /NDF: 190331.4/6

+ sign 3322.642 $\pm$ 0.666  $\chi^2$ /NDF: 1677493.0/25

All: 3179.267 $\pm$ 0.462  $\chi^2$ /NDF: 4963975.8/51

- sign 3045.940 $\pm$ 0.642  $\chi^2$ /NDF: 3196930.5/25

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



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

Left Out: 2119.186+/-1522.798  $\chi^2/\text{NDF}$ : 6.3/8

Right Out: 814.071+/-1379.106  $\chi^2/\text{NDF}$ : 14.3/18

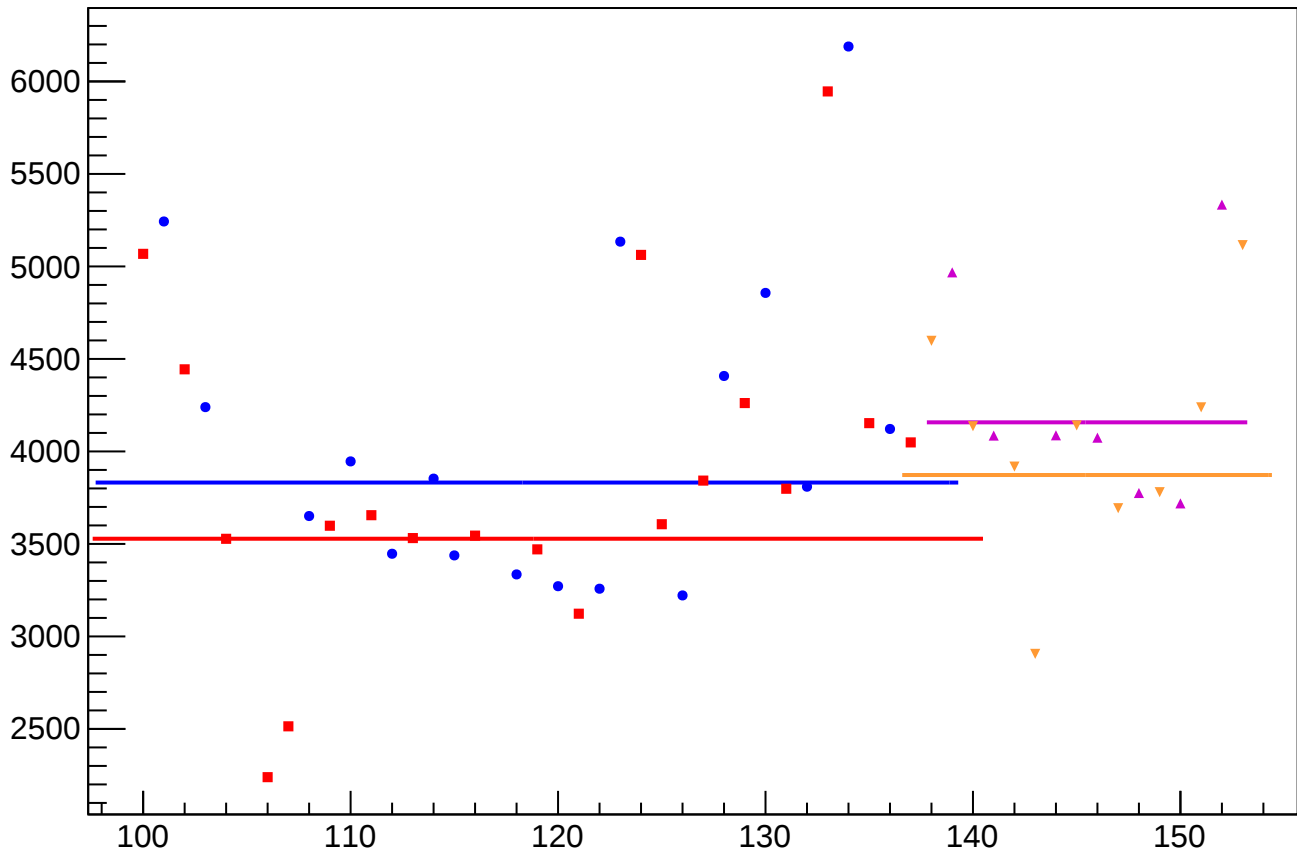
Left In: -814.520+/-1739.508  $\chi^2/\text{NDF}$ : 4.7/6

+ sign 337.183+/-1070.127  $\chi^2/\text{NDF}$ : 24.8/25

All: 262.087+/-760.397  $\chi^2/\text{NDF}$ : 44.3/51

- sign 185.503+/-1080.679  $\chi^2/\text{NDF}$ : 19.5/25

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



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

Left Out: 3872.547+/-1.077  $\chi^2/\text{NDF}$ : 329208.4/8

Right Out: 3528.100+/-0.966  $\chi^2/\text{NDF}$ : 557192.5/18

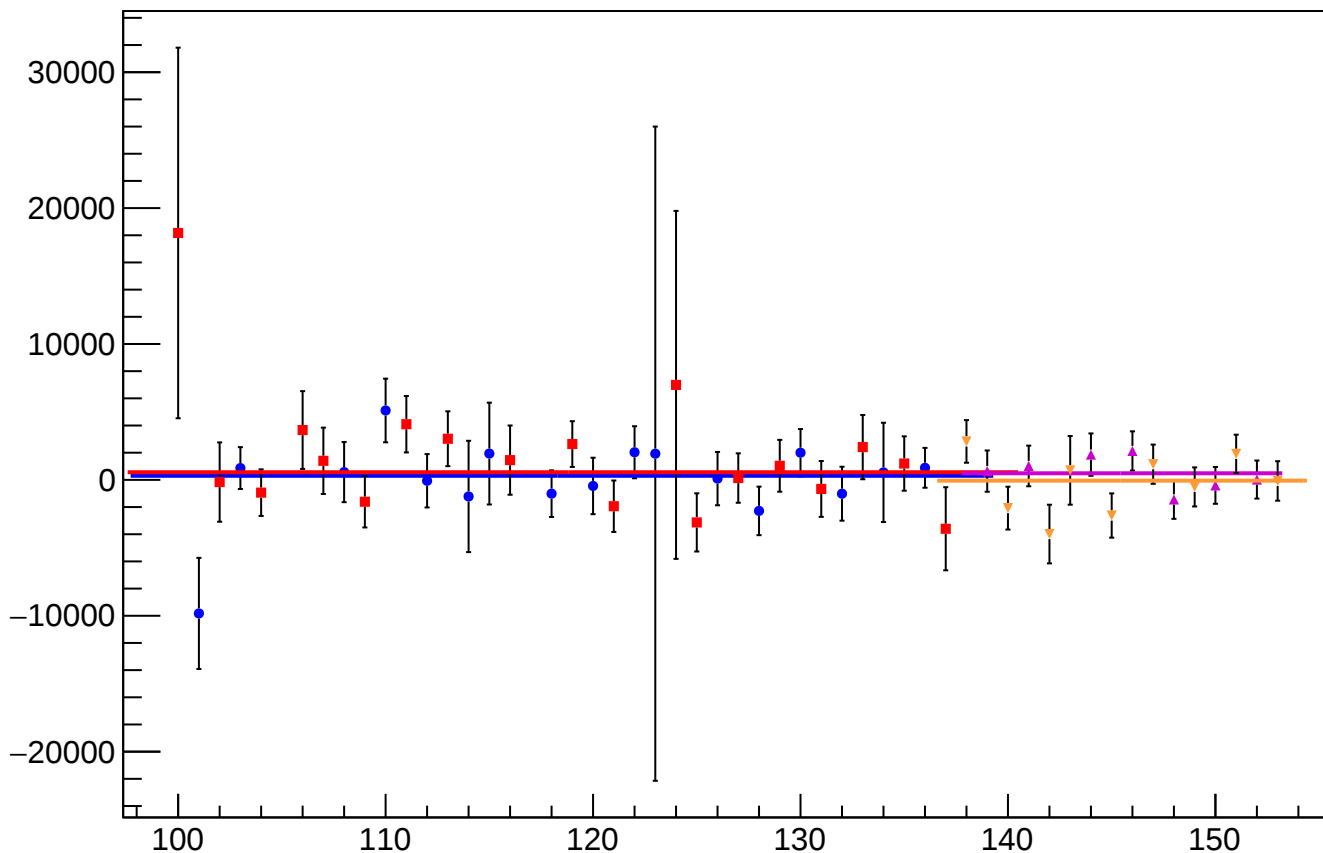
Left In: 4157.277+/-1.230  $\chi^2/\text{NDF}$ : 164892.4/6

+ sign 3851.931+/-0.757  $\chi^2/\text{NDF}$ : 667639.6/25

All: 3810.250+/-0.536  $\chi^2/\text{NDF}$ : 1557613.5/51

- sign 3768.218+/-0.760  $\chi^2/\text{NDF}$ : 883879.8/25

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



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

Left Out:  $-55.784 \pm 534.875$   $\chi^2/\text{NDF}$ : 13.7/8

Right Out:  $562.233 \pm 508.331$   $\chi^2/\text{NDF}$ : 19.1/18

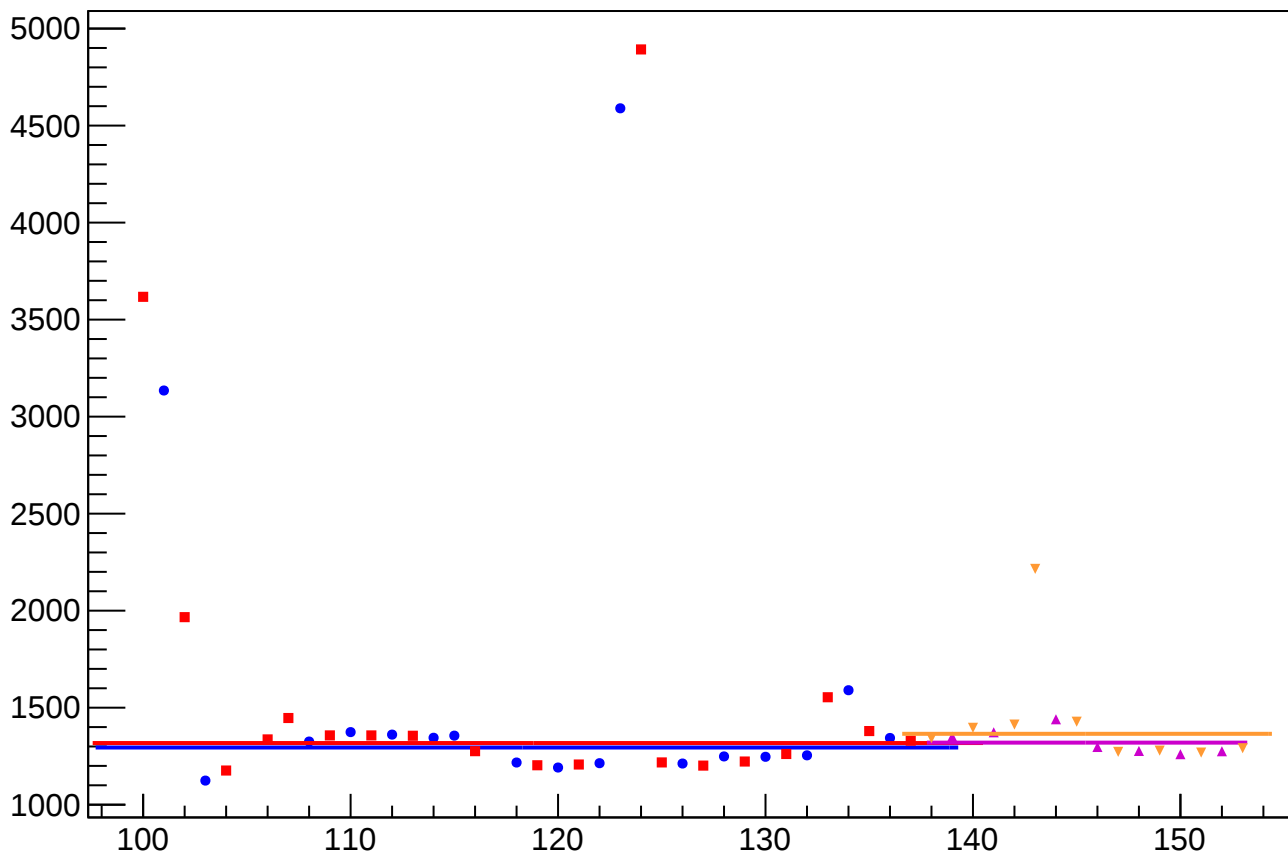
Left In:  $485.256 \pm 548.981$   $\chi^2/\text{NDF}$ : 4.6/6

+ sign  $130.615 \pm 370.175$   $\chi^2/\text{NDF}$ : 30.0/25

All:  $327.158 \pm 262.742$   $\chi^2/\text{NDF}$ : 54.3/51

- sign  $526.699 \pm 372.988$   $\chi^2/\text{NDF}$ : 23.7/25

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: 1365.322+/-0.378  $\chi^2/\text{NDF}$ : 261736.7/8

Right Out: 1317.789+/-0.359  $\chi^2/\text{NDF}$ : 390807.4/18

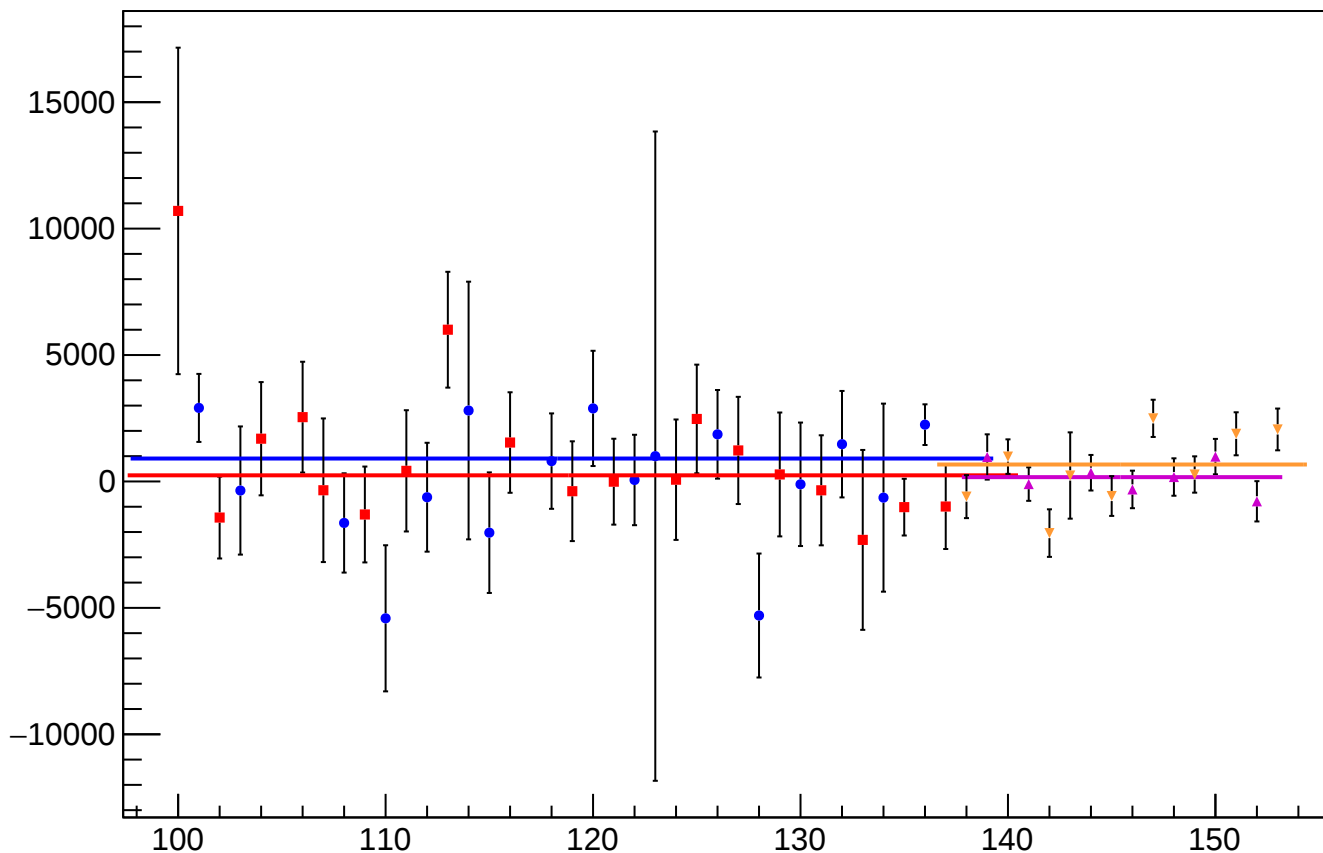
Left In: 1319.879+/-0.388  $\chi^2/\text{NDF}$ : 23433.7/6

+ sign 1328.541+/-0.262  $\chi^2/\text{NDF}$ : 787692.0/25

All: 1323.685+/-0.186  $\chi^2/\text{NDF}$ : 1202642.5/51

- sign 1318.754+/-0.264  $\chi^2/\text{NDF}$ : 414256.7/25

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



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

Left Out: 670.313 $\pm$ 274.716  $\chi^2/\text{NDF}$ : 24.6/8

Right Out: 242.305 $\pm$ 463.339  $\chi^2/\text{NDF}$ : 16.5/18

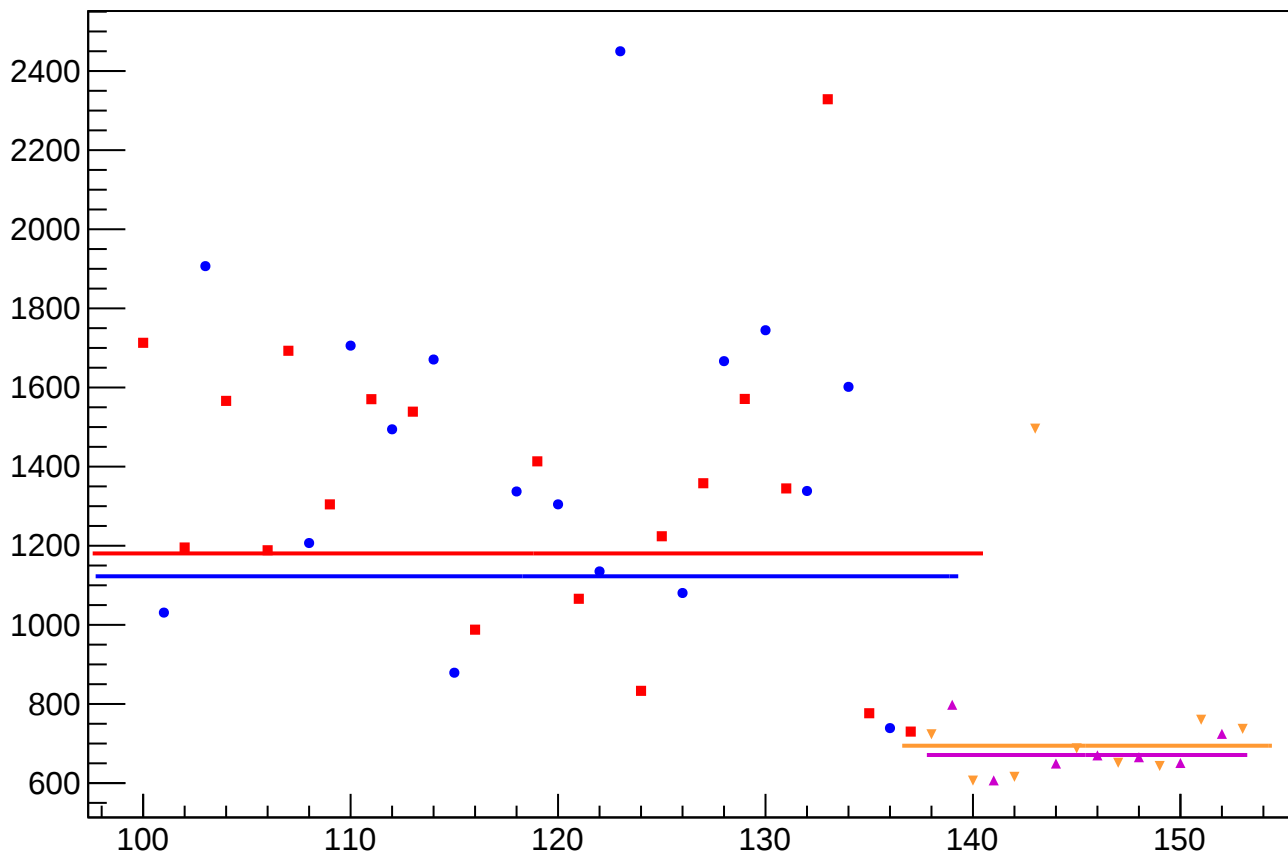
Left In: 170.688 $\pm$ 279.515  $\chi^2/\text{NDF}$ : 4.2/6

+ sign 733.290 $\pm$ 235.290  $\chi^2/\text{NDF}$ : 46.8/25

All: 466.177 $\pm$ 167.788  $\chi^2/\text{NDF}$ : 70.2/51

- sign 189.797 $\pm$ 239.337  $\chi^2/\text{NDF}$ : 20.7/25

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



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

Left Out: 694.498 $\pm$ 0.194  $\chi^2/\text{NDF}$ : 525168.0/8

Right Out: 1180.554 $\pm$ 0.328  $\chi^2/\text{NDF}$ : 1035382.2/18

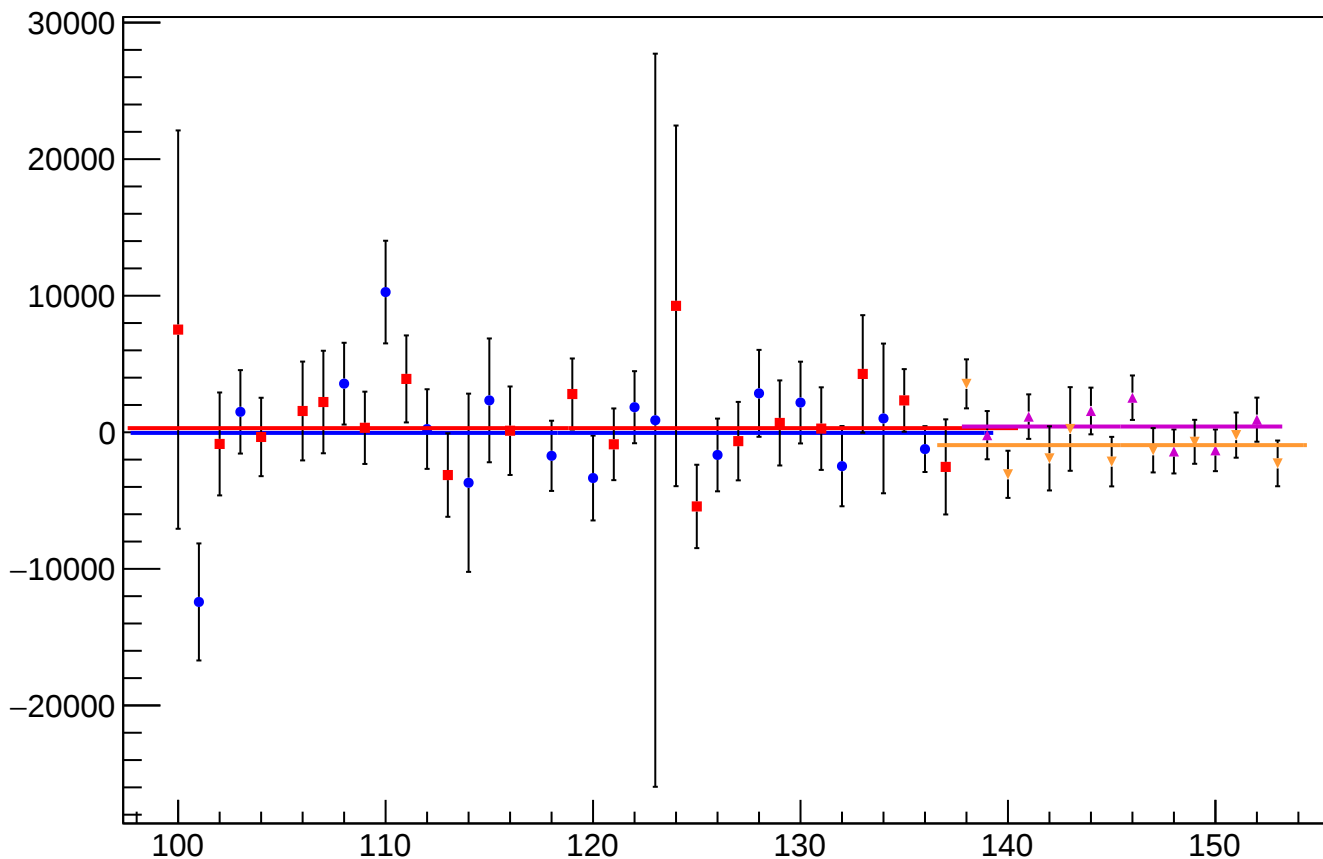
Left In: 671.033 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 71640.0/6

+ sign 808.603 $\pm$ 0.166  $\chi^2/\text{NDF}$ : 3008232.6/25

All: 807.808 $\pm$ 0.119  $\chi^2/\text{NDF}$ : 5888533.4/51

- sign 806.984 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 2880254.2/25

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



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

Left Out:  $-939.925 \pm 605.639$   $\chi^2/\text{NDF}$ : 9.5/8

Right Out:  $303.720 \pm 734.458$   $\chi^2/\text{NDF}$ : 10.9/18

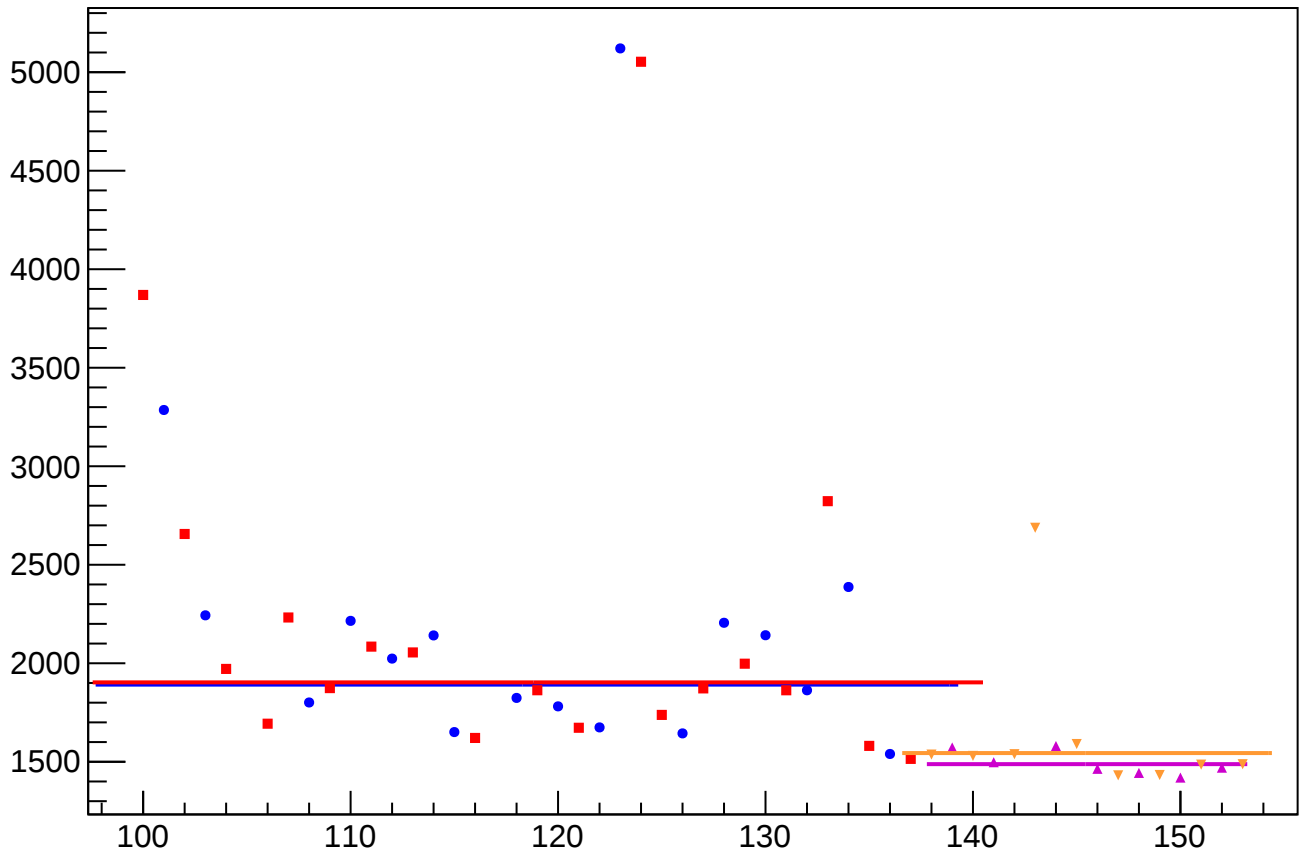
Left In:  $422.168 \pm 618.538$   $\chi^2/\text{NDF}$ : 5.1/6

+ sign  $-585.065 \pm 470.592$   $\chi^2/\text{NDF}$ : 33.5/25

All:  $-108.582 \pm 333.646$   $\chi^2/\text{NDF}$ : 51.6/51

- sign  $373.018 \pm 473.112$   $\chi^2/\text{NDF}$ : 16.0/25

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



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

Left Out: 1544.257 $\pm$ 0.428  $\chi^2$ /NDF: 304421.8/8

Right Out: 1903.010 $\pm$ 0.519  $\chi^2$ /NDF: 460147.6/18

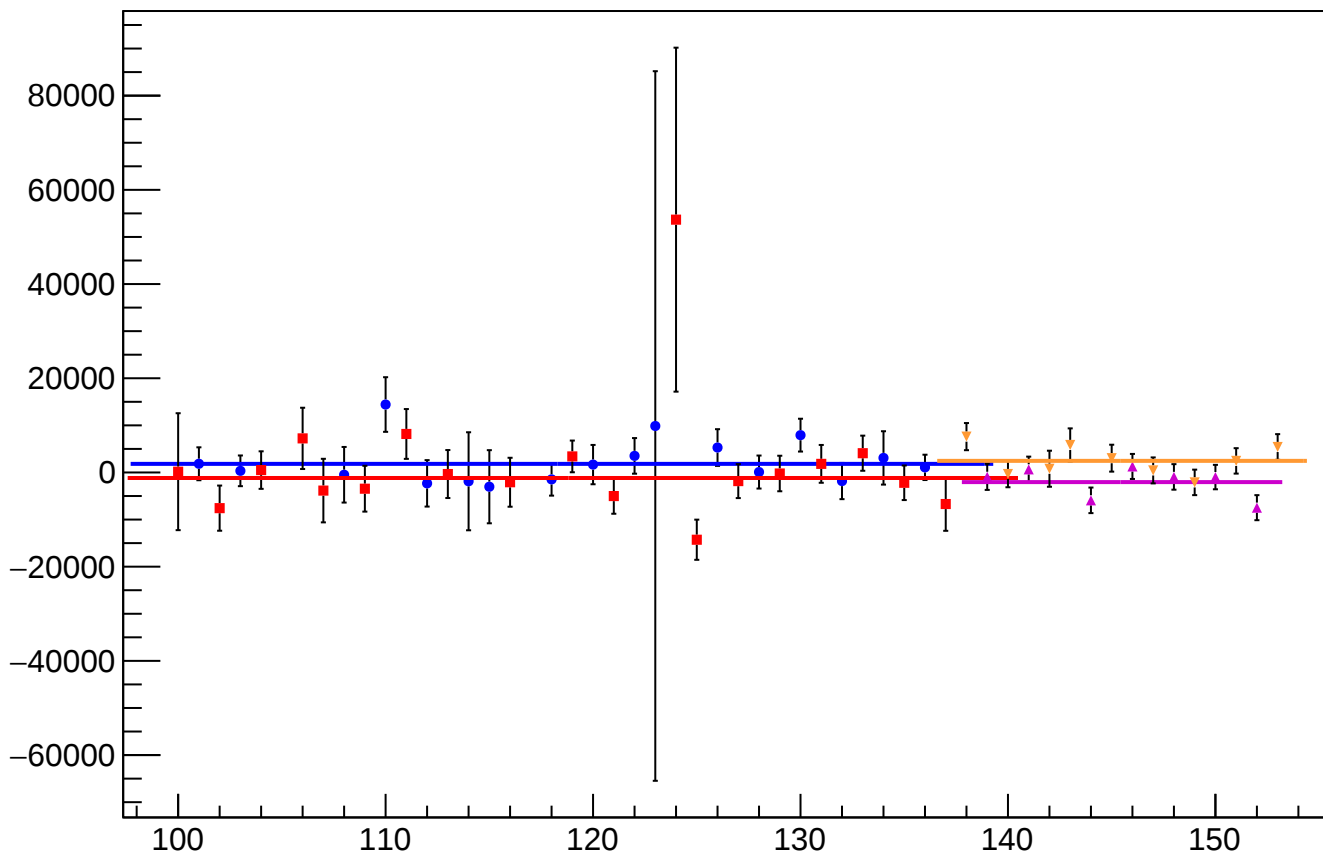
Left In: 1488.047 $\pm$ 0.437  $\chi^2$ /NDF: 16638.8/6

+ sign 1681.918 $\pm$ 0.333  $\chi^2$ /NDF: 1034279.8/25

All: 1671.136 $\pm$ 0.236  $\chi^2$ /NDF: 1886699.1/51

- sign 1660.238 $\pm$ 0.335  $\chi^2$ /NDF: 850308.3/25

# dit\_asym\_atl1\_mean vs Slug



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

Left Out: 2463.242+/-971.917  $\chi^2/\text{NDF}$ : 9.9/8

Right Out: -1173.235+/-1046.189  $\chi^2/\text{NDF}$ : 25.5/18

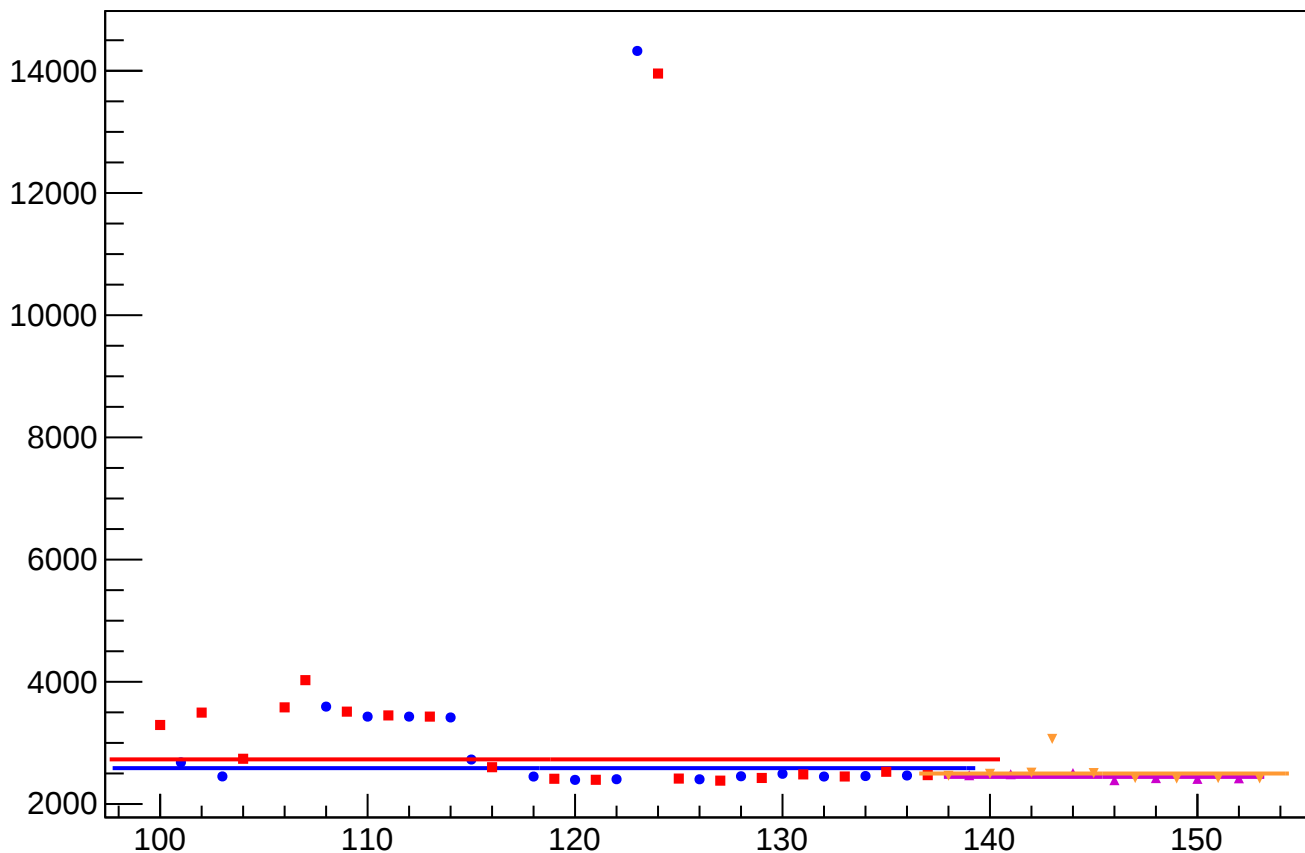
Left In: -2045.943+/-1015.438  $\chi^2/\text{NDF}$ : 9.3/6

+ sign 2156.453+/-700.381  $\chi^2/\text{NDF}$ : 22.6/25

All: 341.656+/-504.943  $\chi^2/\text{NDF}$ : 71.7/51

- sign -1622.603+/-728.652  $\chi^2/\text{NDF}$ : 35.1/25

# dit\_asym\_atl1\_rms vs Slug



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

Left Out: 2499.104+/-0.687  $\chi^2/\text{NDF}$ : 58789.3/8

Right Out: 2730.484+/-0.740  $\chi^2/\text{NDF}$ : 584993.0/18

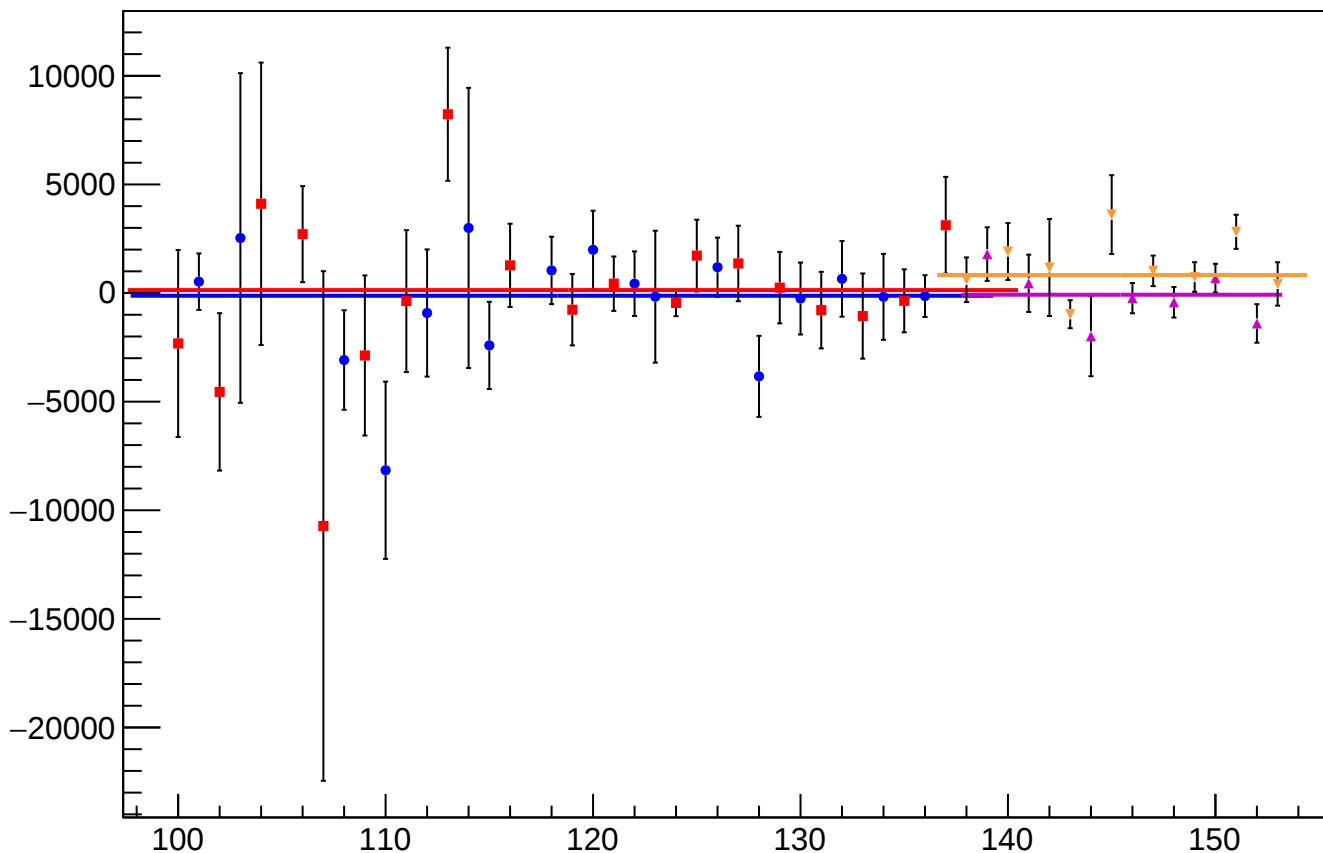
Left In: 2443.849+/-0.718  $\chi^2/\text{NDF}$ : 3162.1/6

+ sign 2541.346+/-0.495  $\chi^2/\text{NDF}$ : 320761.1/25

All: 2561.297+/-0.357  $\chi^2/\text{NDF}$ : 989600.2/51

- sign 2582.892+/-0.515  $\chi^2/\text{NDF}$ : 665459.4/25

# asym\_atl1\_correction\_mean vs Slug



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

Left Out:  $828.544 \pm 298.296$   $\chi^2/\text{NDF}: 17.6/8$

Right Out:  $135.340 \pm 379.439$   $\chi^2/\text{NDF}: 17.9/18$

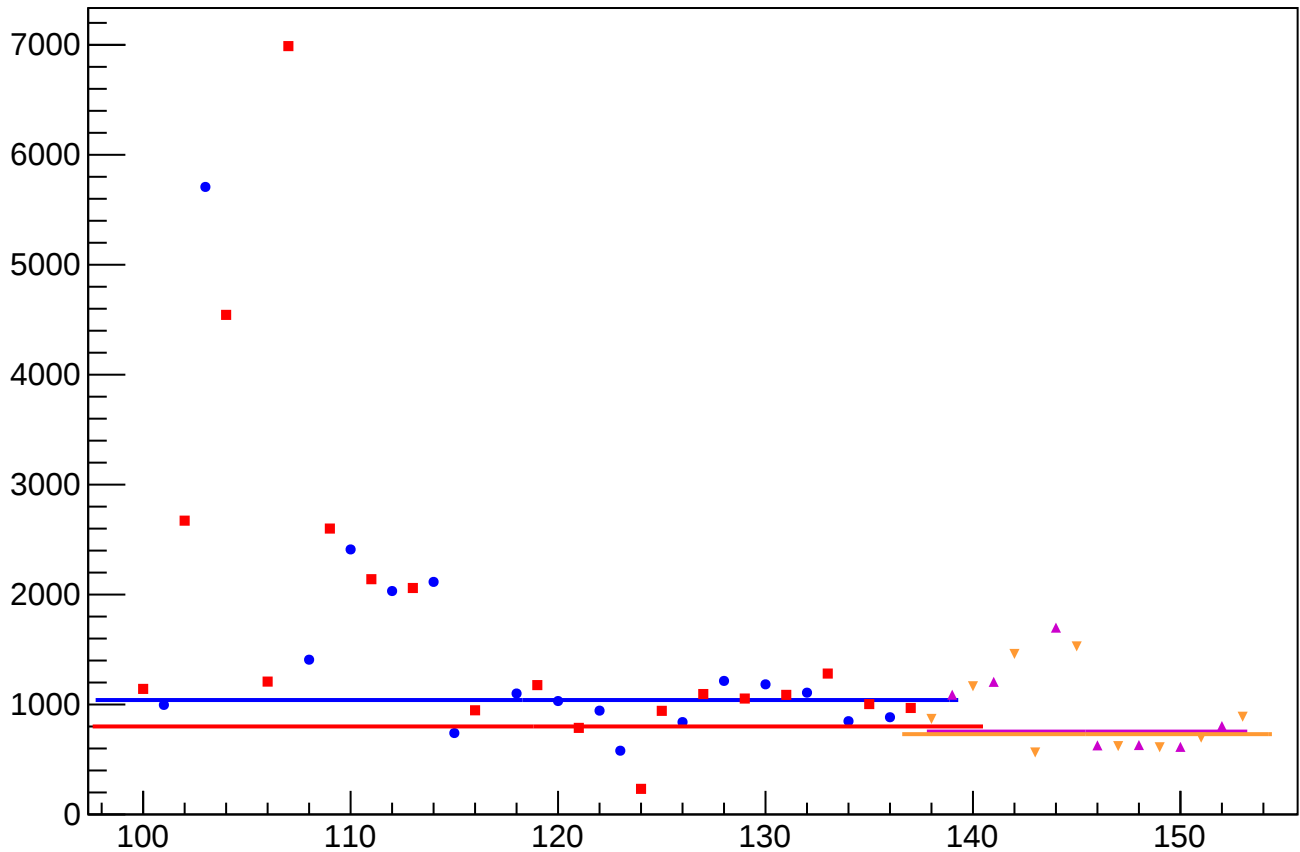
Left In:  $-77.945 \pm 330.186$   $\chi^2/\text{NDF}: 7.4/6$

+ sign  $519.659 \pm 245.236$   $\chi^2/\text{NDF}: 35.6/25$

All:  $270.747 \pm 174.752$   $\chi^2/\text{NDF}: 63.2/51$

- sign  $13.965 \pm 249.082$   $\chi^2/\text{NDF}: 25.4/25$

# asym\_atl1\_correction\_rms vs Slug



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

Left Out: 730.460+/-0.211  $\chi^2/\text{NDF}$ : 1154211.6/8

Right Out: 800.407+/-0.268  $\chi^2/\text{NDF}$ : 5187026.8/18

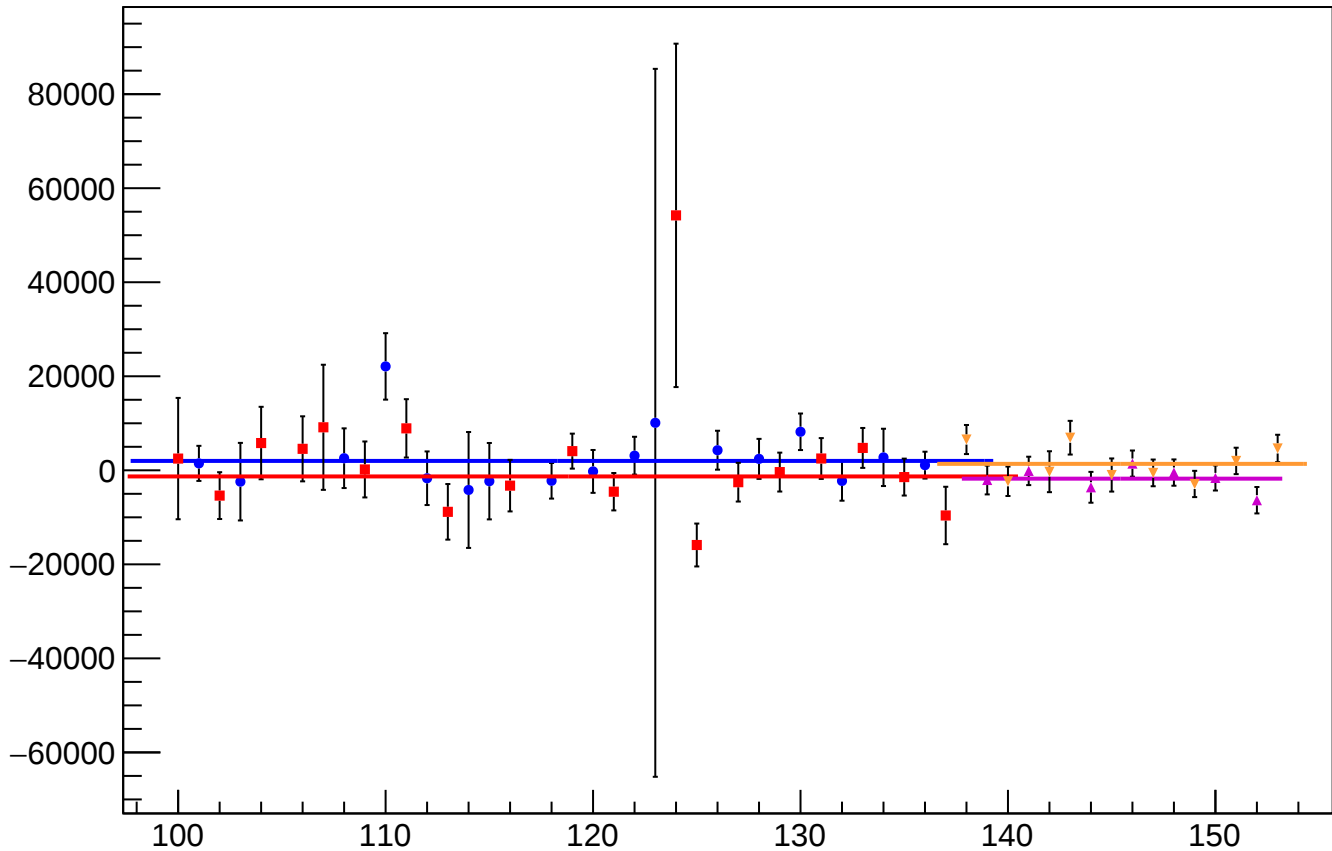
Left In: 753.726+/-0.233  $\chi^2/\text{NDF}$ : 1129526.2/6

+ sign 831.032+/-0.173  $\chi^2/\text{NDF}$ : 3428697.0/25

All: 802.882+/-0.124  $\chi^2/\text{NDF}$ : 9816015.3/51

- sign 773.842+/-0.176  $\chi^2/\text{NDF}$ : 6333779.8/25

# asym\_atl1\_mean vs Slug



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

Left Out:  $1370.034 \pm 1045.480$   $\chi^2/\text{NDF}$ : 11.3/8

Right Out:  $-1304.124 \pm 1188.654$   $\chi^2/\text{NDF}$ : 27.6/18

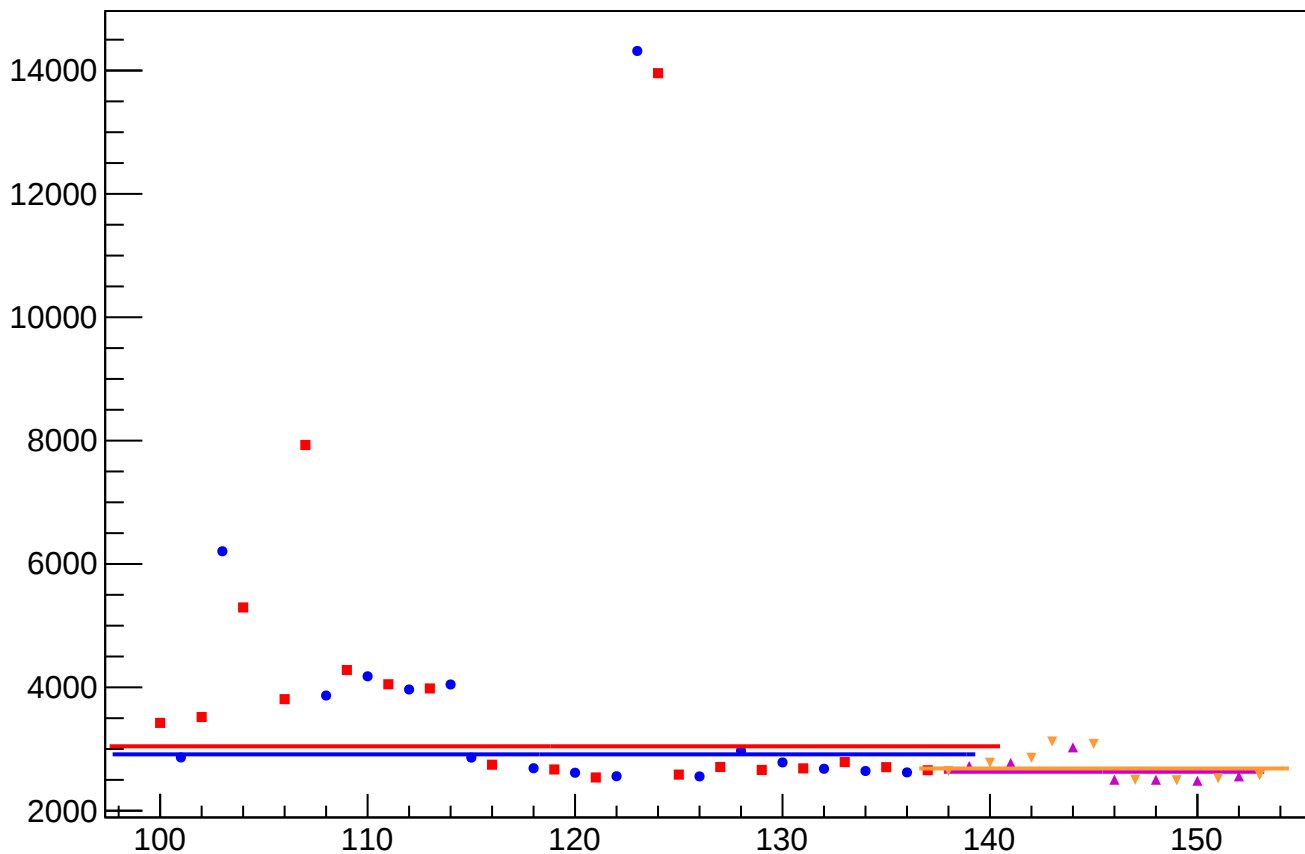
Left In:  $-1777.665 \pm 1095.847$   $\chi^2/\text{NDF}$ : 4.8/6

+ sign  $1652.043 \pm 775.117$   $\chi^2/\text{NDF}$ : 26.4/25

All:  $108.083 \pm 558.588$   $\chi^2/\text{NDF}$ : 67.2/51

- sign  $-1560.100 \pm 805.696$   $\chi^2/\text{NDF}$ : 32.5/25

# asym\_atl1\_rms vs Slug



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

Left Out: 2684.641+/-0.739  $\chi^2/\text{NDF}$ : 87551.5/8

Right Out: 3044.474+/-0.841  $\chi^2/\text{NDF}$ : 1005326.4/18

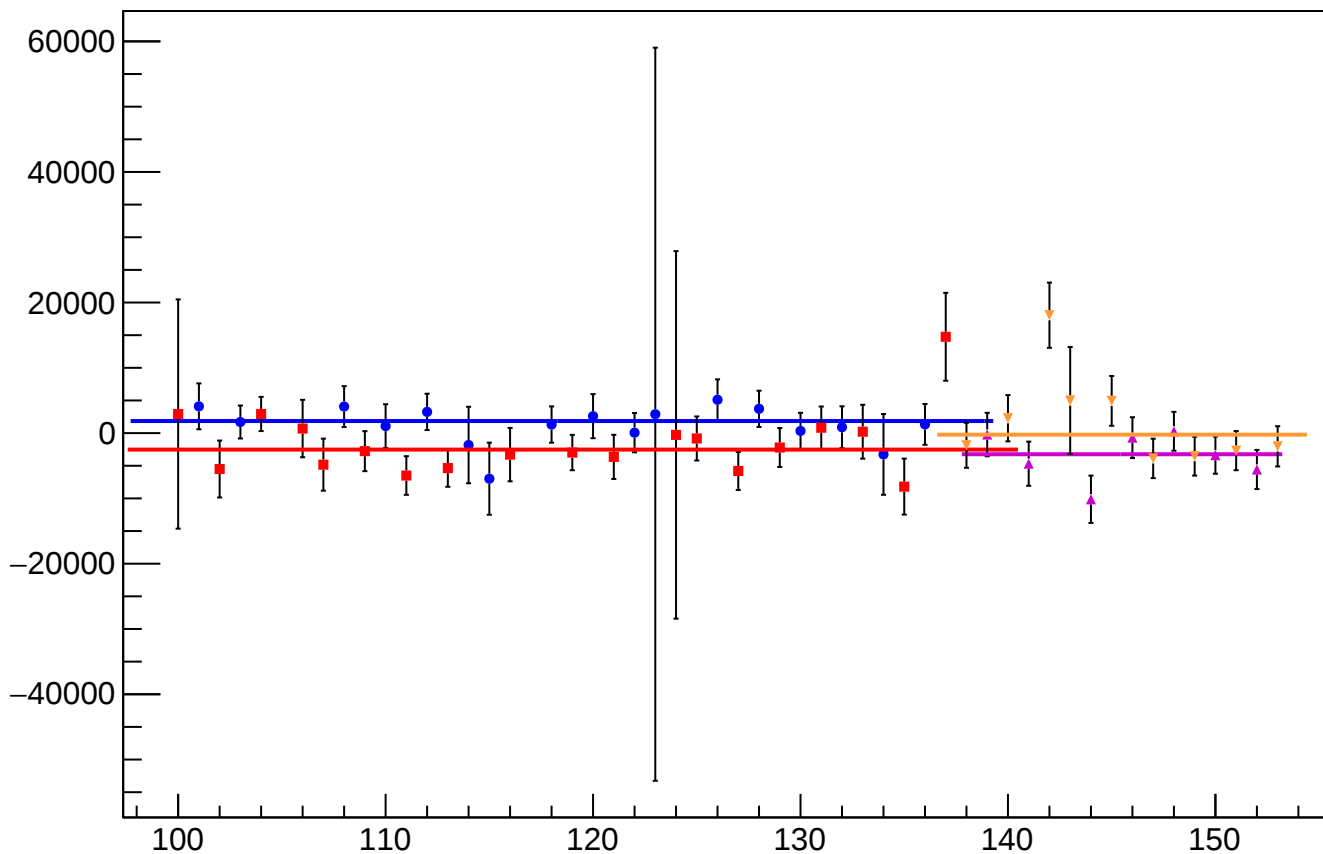
Left In: 2631.199+/-0.775  $\chi^2/\text{NDF}$ : 51264.6/6

+ sign 2787.872+/-0.548  $\chi^2/\text{NDF}$ : 769836.1/25

All: 2803.831+/-0.395  $\chi^2/\text{NDF}$ : 1958879.6/51

- sign 2821.075+/-0.570  $\chi^2/\text{NDF}$ : 1187279.6/25

# dit\_asym\_atl2\_mean vs Slug



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

Left Out:  $-238.057 \pm 1173.002$   $\chi^2/\text{NDF}$ : 20.1/8

Right Out:  $-2523.303 \pm 818.432$   $\chi^2/\text{NDF}$ : 20.1/18

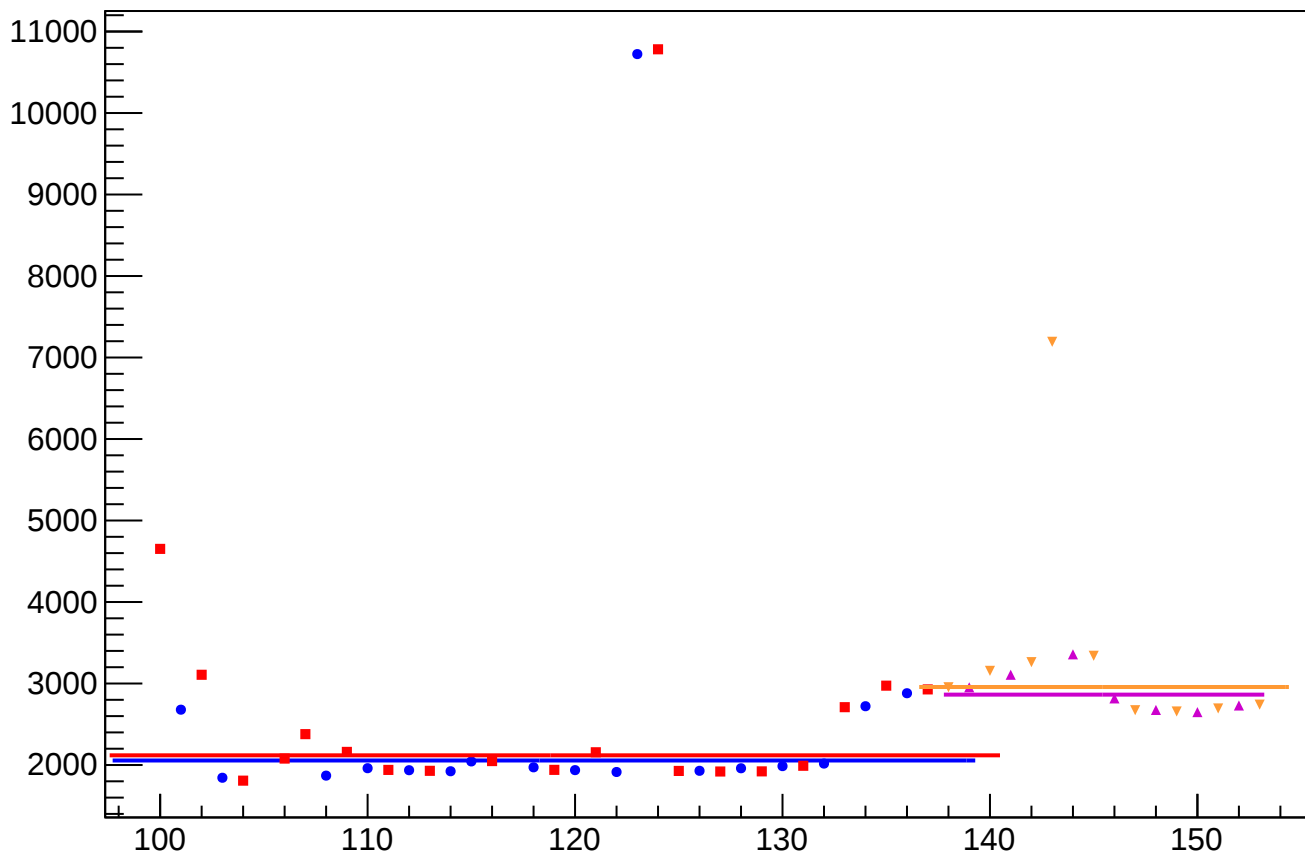
Left In:  $-3236.147 \pm 1192.383$   $\chi^2/\text{NDF}$ : 7.3/6

+ sign  $1179.529 \pm 664.719$   $\chi^2/\text{NDF}$ : 29.5/25

All:  $-756.523 \pm 473.542$   $\chi^2/\text{NDF}$ : 74.3/51

- sign  $-2751.589 \pm 674.774$   $\chi^2/\text{NDF}$ : 27.6/25

# dit\_asym\_atl2\_rms vs Slug



Right In: 2055.447 $\pm$ 0.570  $\chi^2$ /NDF: 316383.7/16

Left Out: 2957.128 $\pm$ 0.829  $\chi^2$ /NDF: 632670.0/8

Right Out: 2118.803 $\pm$ 0.578  $\chi^2$ /NDF: 573725.8/18

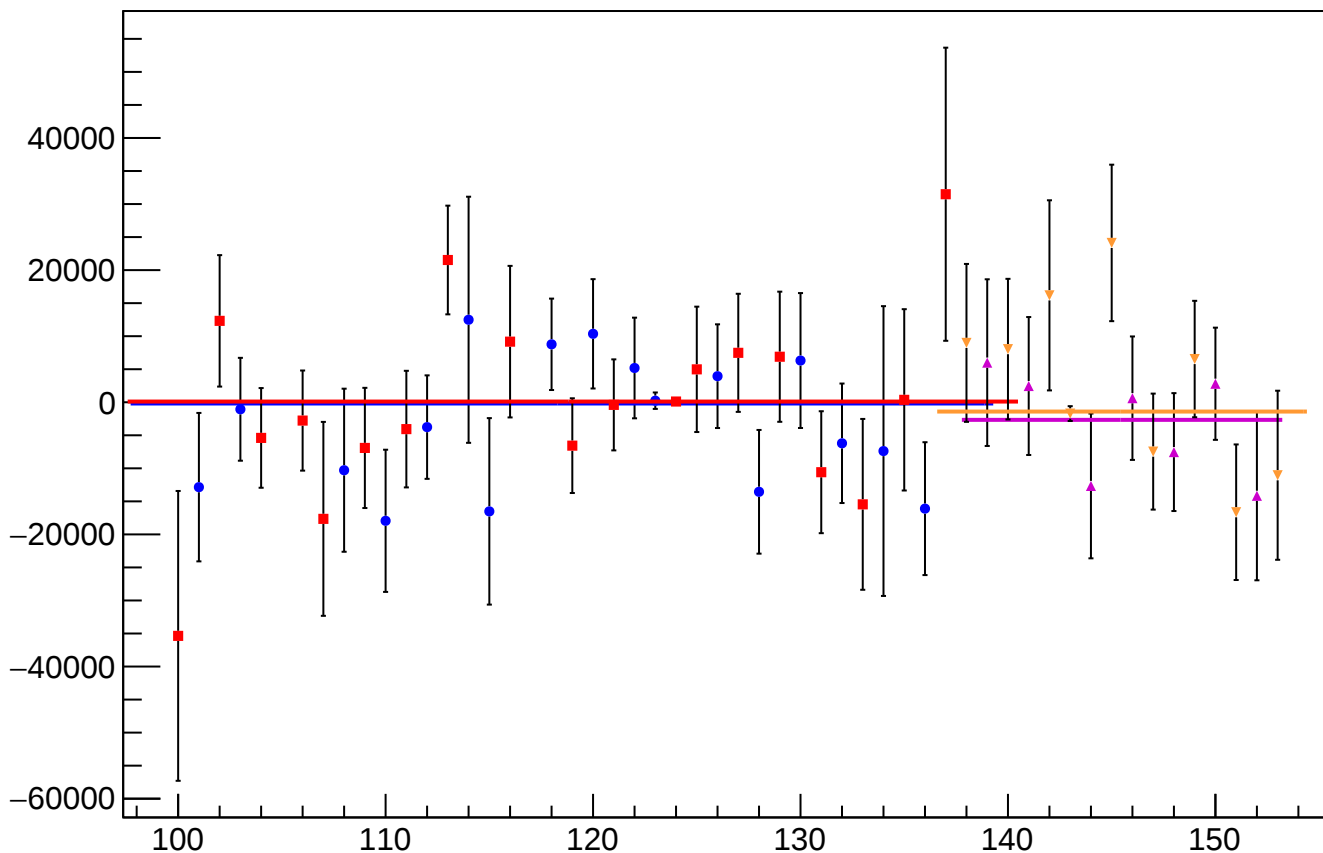
Left In: 2863.529 $\pm$ 0.843  $\chi^2$ /NDF: 72768.0/6

+ sign 2345.002 $\pm$ 0.470  $\chi^2$ /NDF: 1751333.6/25

All: 2350.825 $\pm$ 0.335  $\chi^2$ /NDF: 2928973.8/51

- sign 2356.814 $\pm$ 0.477  $\chi^2$ /NDF: 1177328.9/25

# asym\_atl2\_correction\_mean vs Slug



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

Left Out:  $-1406.757 \pm 1076.307$   $\chi^2/\text{NDF}: 11.8/8$

Right Out:  $106.733 \pm 690.637$   $\chi^2/\text{NDF}: 21.6/18$

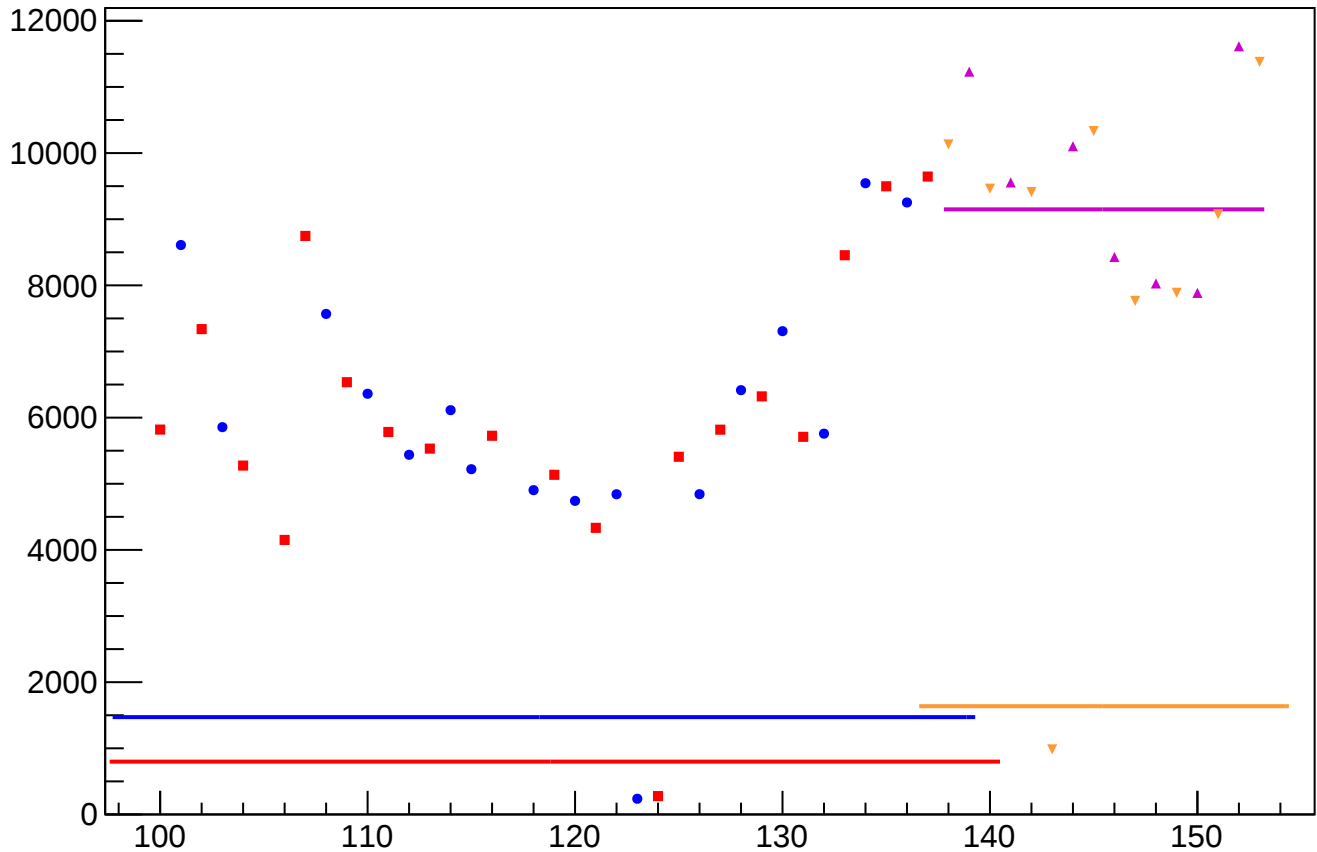
Left In:  $-2663.616 \pm 3840.689$   $\chi^2/\text{NDF}: 3.2/6$

+ sign  $-809.730 \pm 769.571$   $\chi^2/\text{NDF}: 28.8/25$

All:  $-343.654 \pm 509.460$   $\chi^2/\text{NDF}: 54.8/51$

- sign  $19.958 \pm 679.734$   $\chi^2/\text{NDF}: 25.3/25$

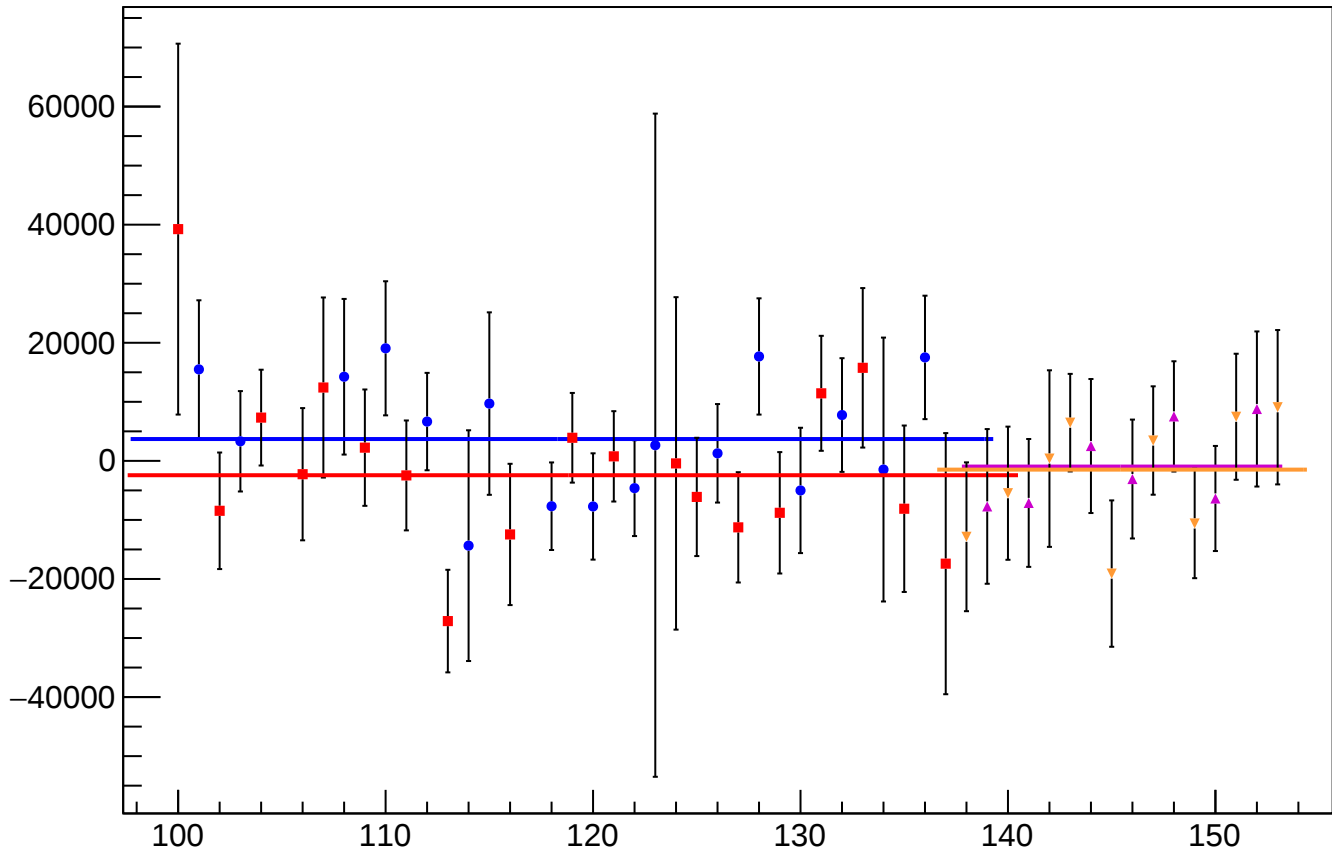
# asym\_atl2\_correction\_rms vs Slug



Right In:  $1471.609 \pm 0.778$   $\chi^2/\text{NDF}$ : 9788255.4/16  
 Left Out:  $1636.865 \pm 0.761$   $\chi^2/\text{NDF}$ : 8623005.1/8  
 Right Out:  $798.642 \pm 0.488$   $\chi^2/\text{NDF}$ : 11527481.4/18  
 Left In:  $9149.016 \pm 2.716$   $\chi^2/\text{NDF}$ : 234708.7/6

+ sign  $1556.094 \pm 0.544$   $\chi^2/\text{NDF}$ : 18434305.0/25  
 All:  $1277.526 \pm 0.360$   $\chi^2/\text{NDF}$ : 39821040.2/5  
 - sign  $1060.199 \pm 0.481$   $\chi^2/\text{NDF}$ : 20920232.0/25

# asym\_atl2\_mean vs Slug



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

Left Out: -1481.390+/-3581.757  $\chi^2/\text{NDF}$ : 6.5/8

Right Out: -2430.229+/-2421.418  $\chi^2/\text{NDF}$ : 20.3/18

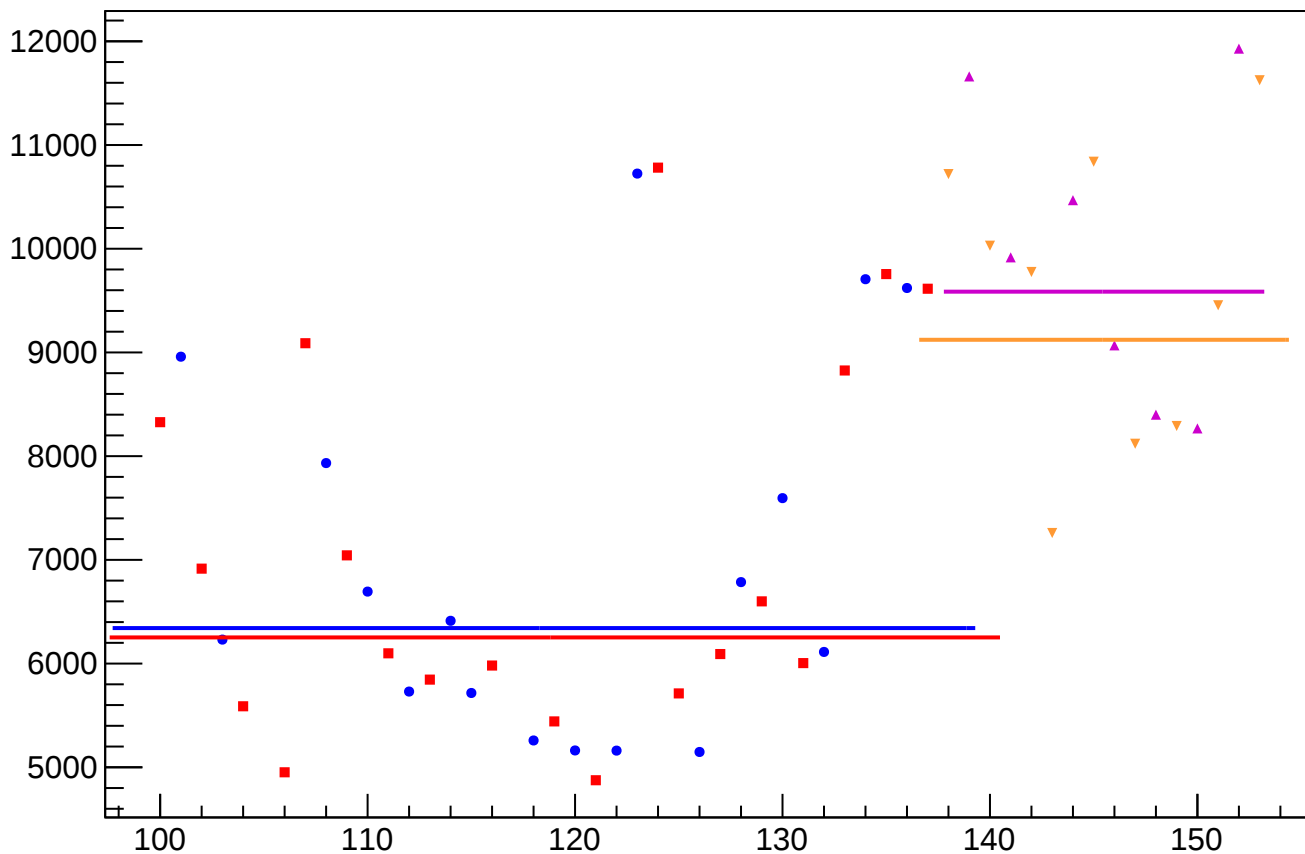
Left In: -963.843+/-4019.888  $\chi^2/\text{NDF}$ : 2.5/6

+ sign 1985.237+/-2059.884  $\chi^2/\text{NDF}$ : 22.3/25

All: -13.368+/-1461.588  $\chi^2/\text{NDF}$ : 47.1/51

- sign -2039.824+/-2074.186  $\chi^2/\text{NDF}$ : 22.9/25

# asym\_atl2\_rms vs Slug



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

Left Out: 9122.058+/-2.533  $\chi^2/\text{NDF}$ : 304194.7/8

Right Out: 6252.137+/-1.712  $\chi^2/\text{NDF}$ : 538031.2/18

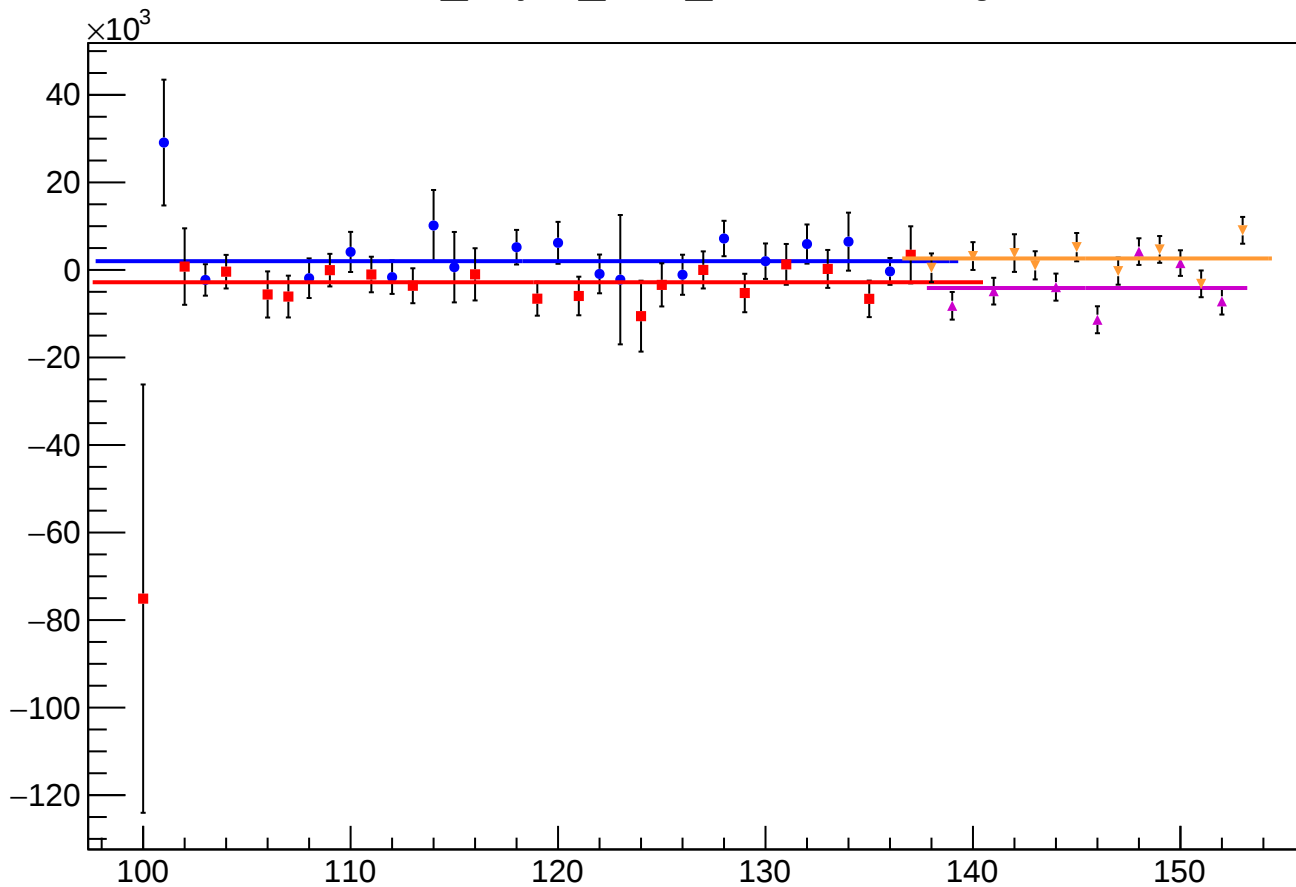
Left In: 9585.997+/-2.842  $\chi^2/\text{NDF}$ : 209294.4/6

+ sign 7261.703+/-1.457  $\chi^2/\text{NDF}$ : 1704051.5/25

All: 7201.108+/-1.033  $\chi^2/\text{NDF}$ : 3464263.0/51

- sign 7139.673+/-1.467  $\chi^2/\text{NDF}$ : 1756726.0/25

# dit\_asym\_atr1\_mean vs Slug



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

Left Out: 2623.999 $\pm$ 1076.095  $\chi^2$ /NDF:10.8/8

Right Out: -2811.702 $\pm$ 1086.544  $\chi^2$ /NDF: 10.5/18

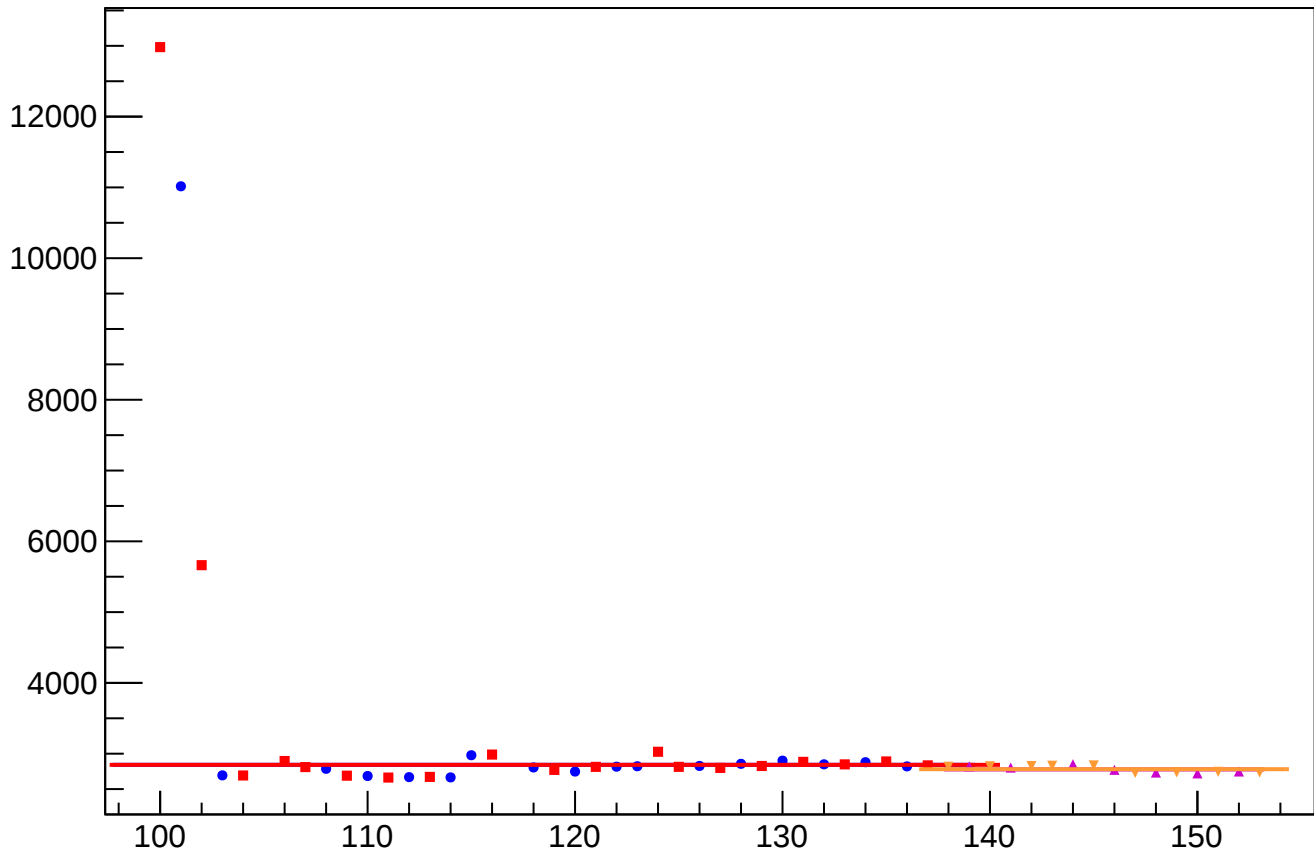
Left In: -4128.218 $\pm$ 1152.953  $\chi^2$ /NDF:19.5/6

+ sign 2328.169 $\pm$ 777.771  $\chi^2$ /NDF: 24.6/25

All: -503.785 $\pm$ 554.495  $\chi^2$ /NDF: 82.3/51

- sign -3430.955 $\pm$ 790.738  $\chi^2$ /NDF: 30.7/25

# dit\_asym\_atr1\_rms vs Slug



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

Left Out: 2780.933+/-0.761  $\chi^2/\text{NDF}$ : 3585.2/8

Right Out: 2842.440+/-0.768  $\chi^2/\text{NDF}$ : 312335.6/18

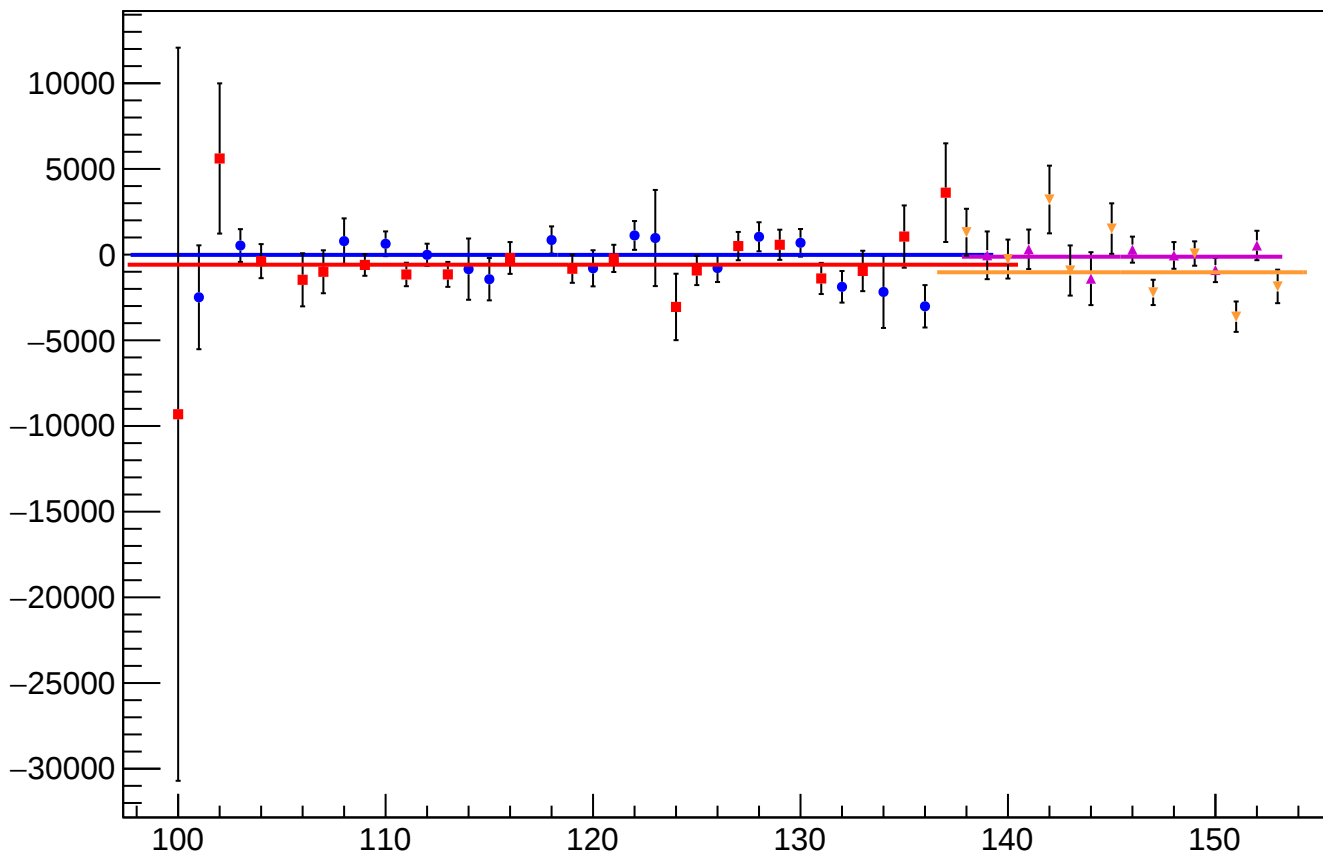
Left In: 2777.475+/-0.815  $\chi^2/\text{NDF}$ : 2981.3/6

+ sign 2810.399+/-0.550  $\chi^2/\text{NDF}$ : 667030.0/25

All: 2811.128+/-0.392  $\chi^2/\text{NDF}$ : 985713.6/51

- sign 2811.882+/-0.559  $\chi^2/\text{NDF}$ : 318680.0/25

# asym\_atr1\_correction\_mean vs Slug



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

Left Out:  $-1030.363 \pm 340.590$   $\chi^2/\text{NDF}$ : 25.2/8

Right Out:  $-588.581 \pm 225.799$   $\chi^2/\text{NDF}$ : 13.5/18

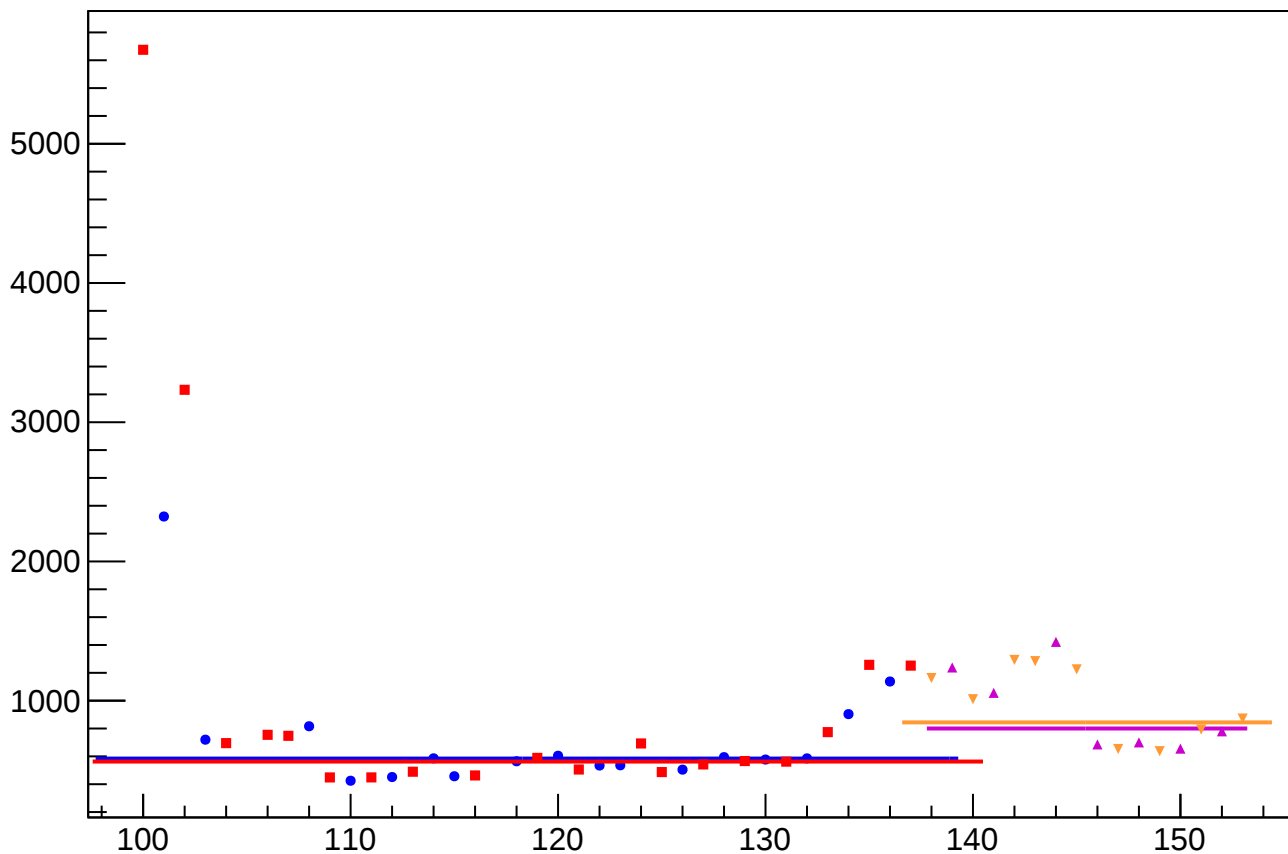
Left In:  $-122.366 \pm 344.326$   $\chi^2/\text{NDF}$ : 2.9/6

+ sign  $-350.178 \pm 195.562$   $\chi^2/\text{NDF}$ : 52.7/25

All:  $-401.003 \pm 135.837$   $\chi^2/\text{NDF}$ : 70.5/51

- sign  $-448.383 \pm 188.820$   $\chi^2/\text{NDF}$ : 17.7/25

# asym\_atr1\_correction\_rms vs Slug



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 843.968+/-0.241  $\chi^2/\text{NDF}$ : 880452.9/8

Right Out: 562.692+/-0.160  $\chi^2/\text{NDF}$ : 1639562.8/18

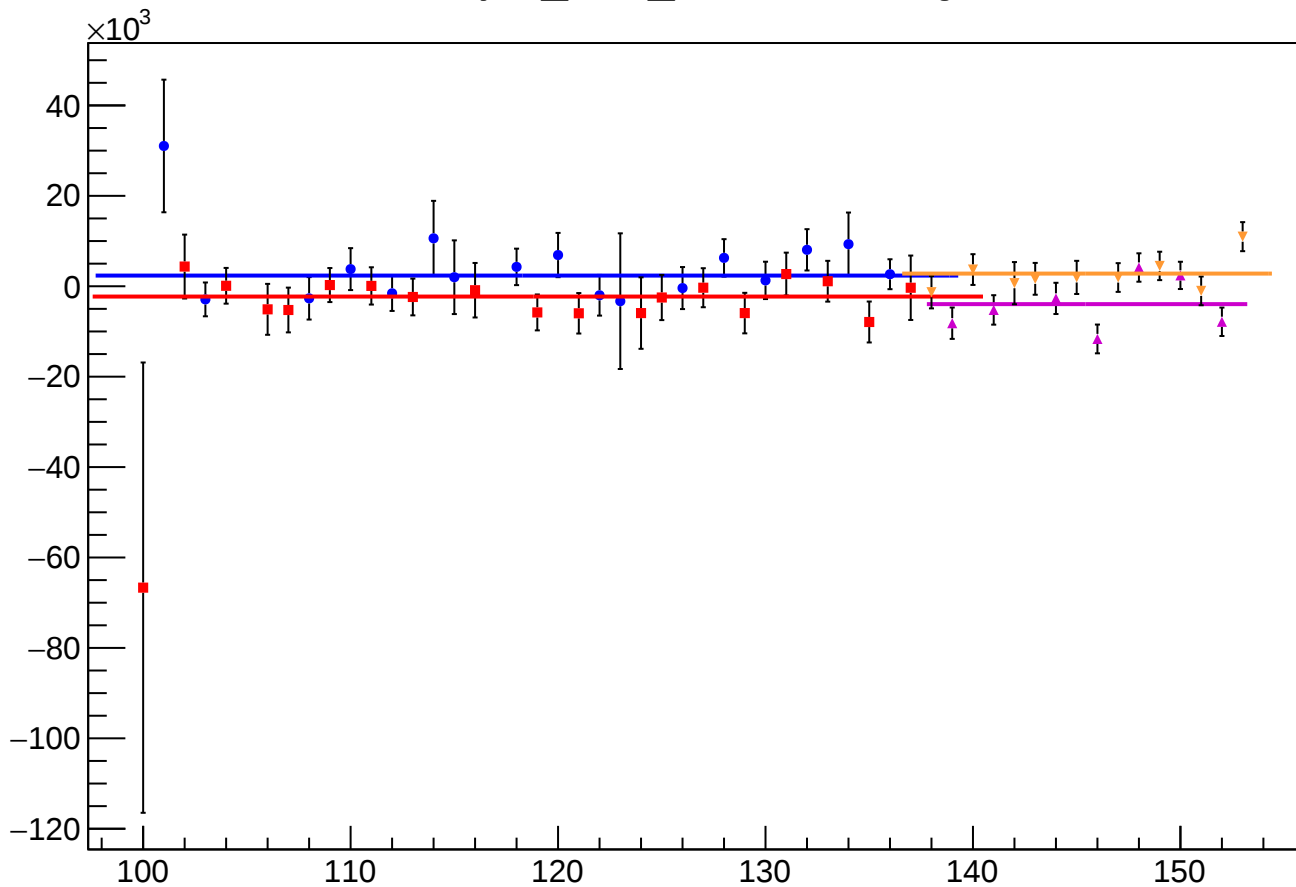
Left In: 800.123+/-0.243  $\chi^2/\text{NDF}$ : 785189.4/6

+ sign 669.746+/-0.138  $\chi^2/\text{NDF}$ : 3097788.1/25

All: 651.293+/-0.096  $\chi^2/\text{NDF}$ : 6221942.6/51

- sign 634.091+/-0.134  $\chi^2/\text{NDF}$ : 3089748.1/25

# asym\_atr1\_mean vs Slug



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 2803.012 $\pm$ 1145.680  $\chi^2$ /NDF:10.0/8

Right Out: -2277.507 $\pm$ 1111.658  $\chi^2$ /NDF: 10.2/18

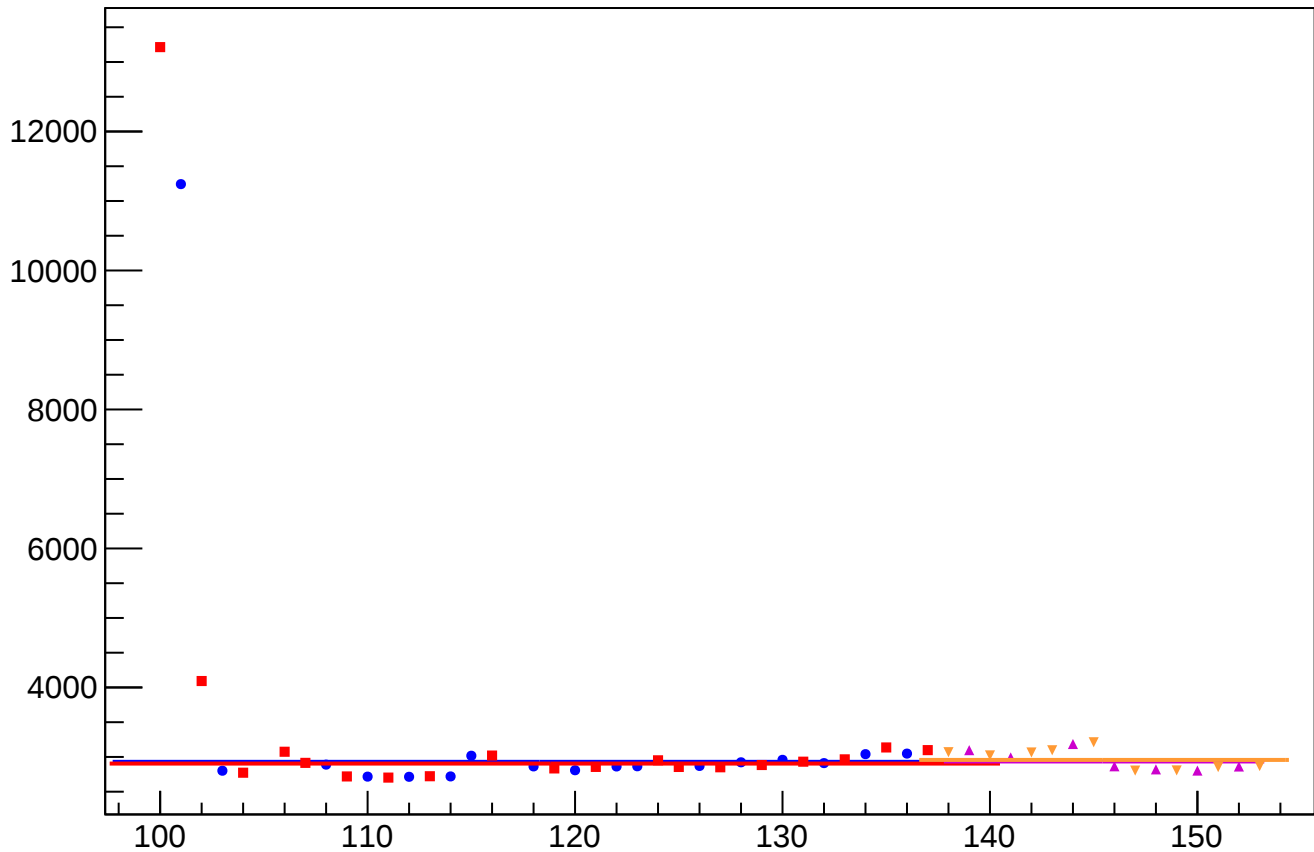
Left In: -3952.974 $\pm$ 1219.501  $\chi^2$ /NDF:20.3/6

+ sign 2585.628 $\pm$ 815.114  $\chi^2$ /NDF: 25.2/25

All: -204.034 $\pm$ 578.634  $\chi^2$ /NDF: 80.3/51

- sign -3037.896 $\pm$ 821.546  $\chi^2$ /NDF: 31.5/25

# asym\_atr1\_rms vs Slug



Right In: 2929.654 $\pm$ 0.820  $\chi^2$ /NDF: 662629.0/16

Left Out: 2957.155 $\pm$ 0.810  $\chi^2$ /NDF:29346.6/8

Right Out: 2904.570 $\pm$ 0.786  $\chi^2$ /NDF: 169288.7/18

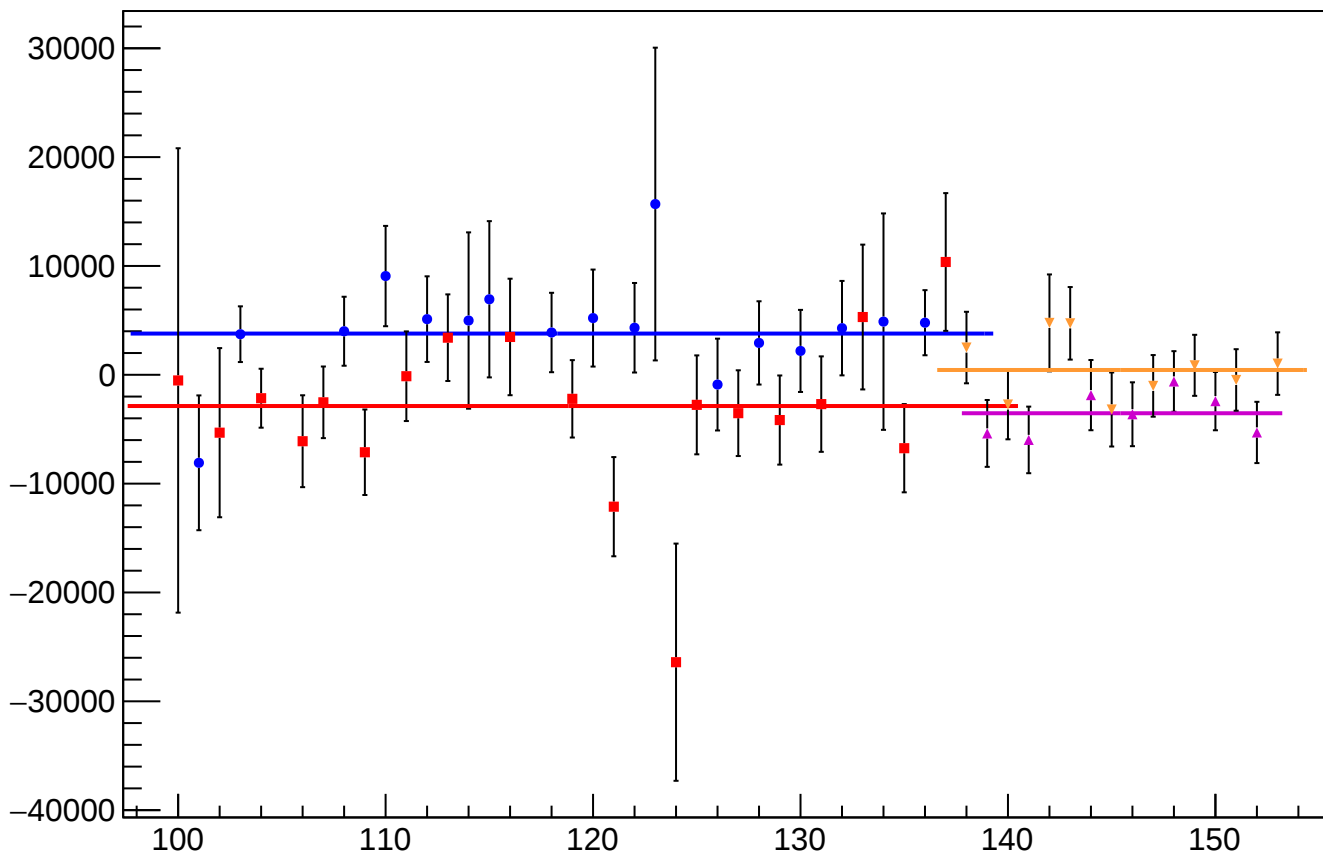
Left In: 2934.910 $\pm$ 0.862  $\chi^2$ /NDF:24027.5/6

+ sign 2943.575 $\pm$ 0.576  $\chi^2$ /NDF: 692544.7/25

All: 2931.056 $\pm$ 0.409  $\chi^2$ /NDF: 887487.9/51

- sign 2918.339 $\pm$ 0.581  $\chi^2$ /NDF: 193992.3/25

# dit\_asym\_atr2\_mean vs Slug



Right In: 3787.840 $\pm$ 1008.120  $\chi^2$ /NDF: 7.7/16

Left Out: 442.054 $\pm$ 1045.092  $\chi^2$ /NDF:5.5/8

Right Out: -2869.484 $\pm$ 1002.967  $\chi^2$ /NDF: 22.0/18

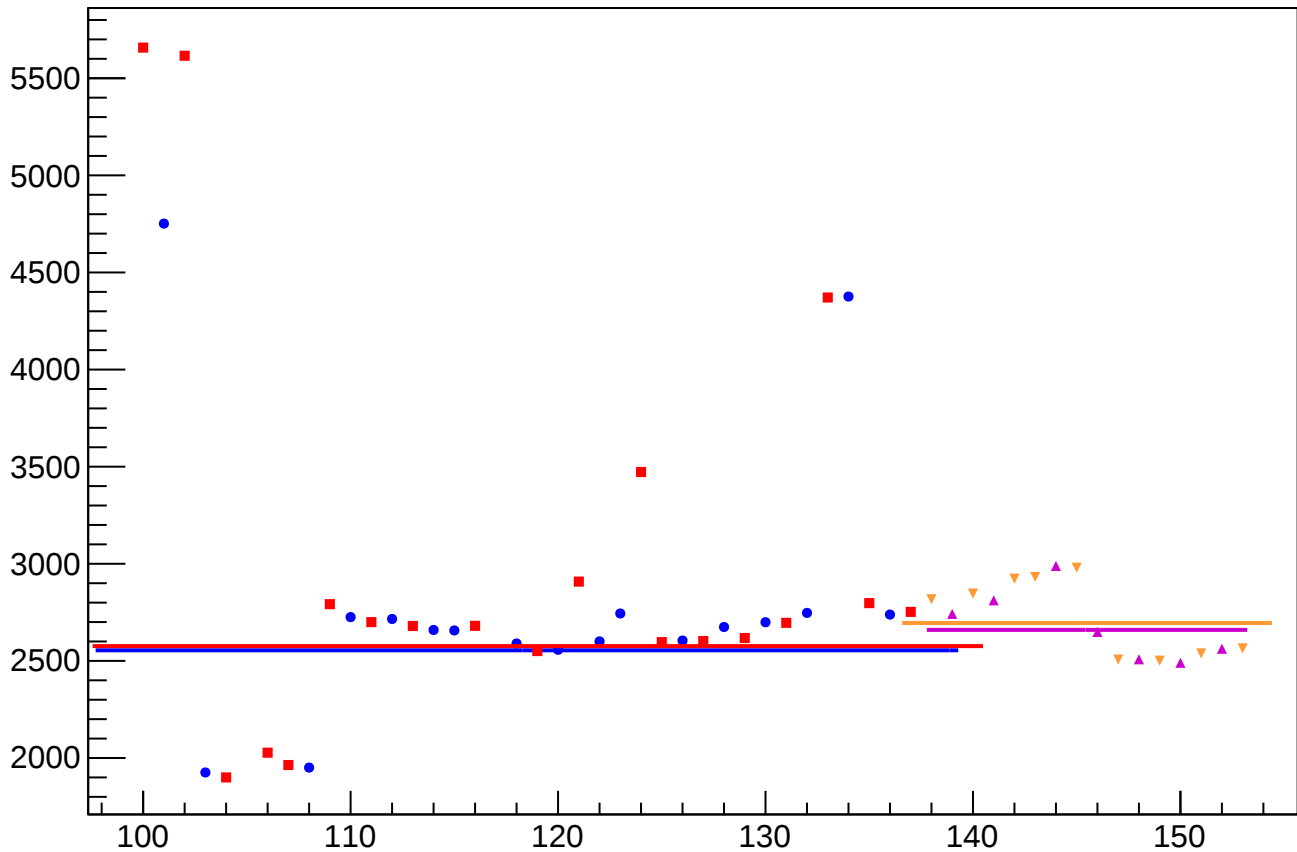
Left In: -3532.621 $\pm$ 1104.470  $\chi^2$ /NDF:2.9/6

+ sign 2175.176 $\pm$ 725.567  $\chi^2$ /NDF: 18.6/25

All: -435.363 $\pm$ 518.937  $\chi^2$ /NDF: 70.3/51

- sign -3169.187 $\pm$ 742.502  $\chi^2$ /NDF: 25.2/25

# dit\_asym\_atr2\_rms vs Slug



Right In: 2554.537+/-0.713  $\chi^2/\text{NDF}$ : 536626.0/16

Left Out: 2695.096+/-0.739  $\chi^2/\text{NDF}$ : 65293.5/8

Right Out: 2576.077+/-0.709  $\chi^2/\text{NDF}$ : 765156.6/18

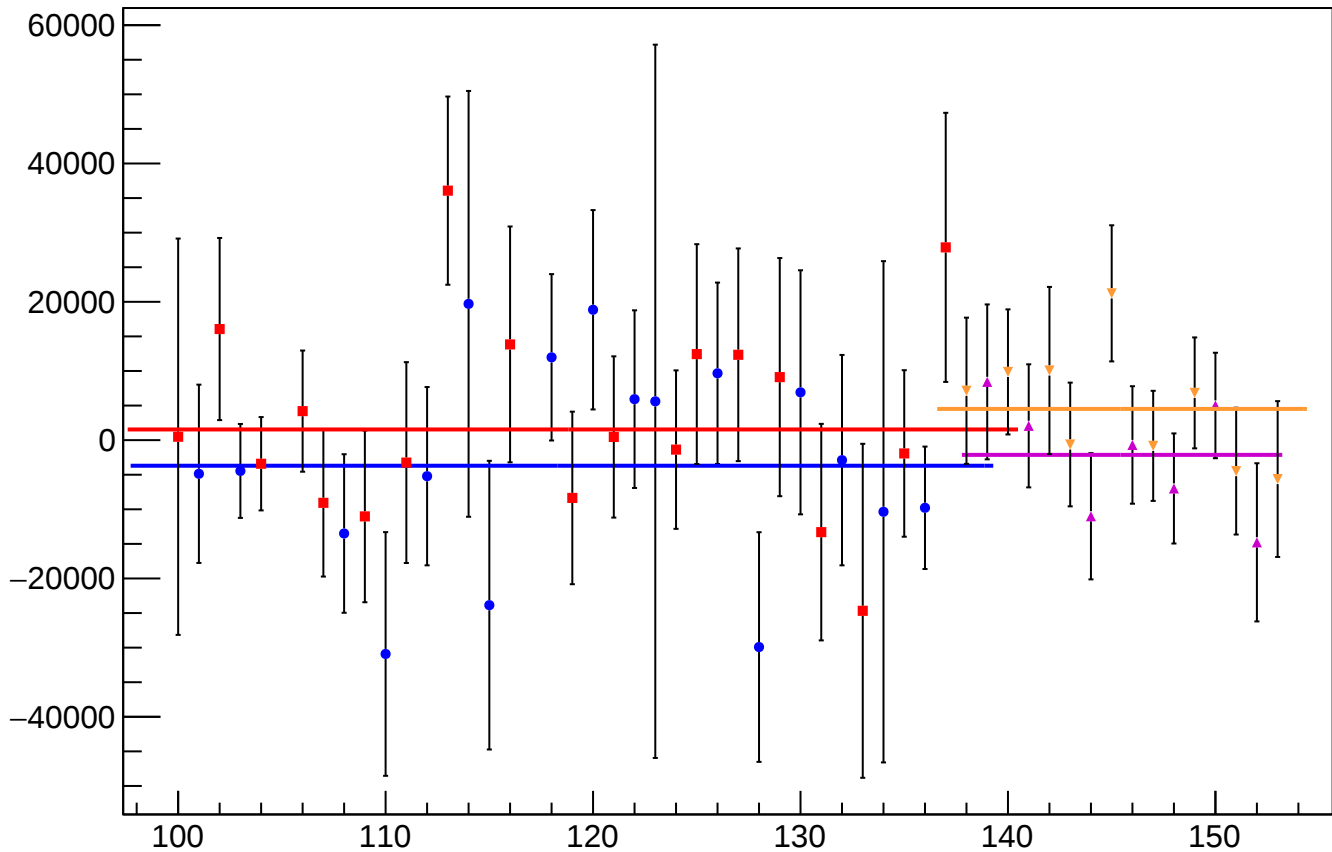
Left In: 2659.686+/-0.781  $\chi^2/\text{NDF}$ : 43509.8/6

+ sign 2622.286+/-0.513  $\chi^2/\text{NDF}$ : 620659.4/25

All: 2618.163+/-0.367  $\chi^2/\text{NDF}$ : 1435741.6/51

- sign 2613.847+/-0.525  $\chi^2/\text{NDF}$ : 814950.0/25

# asym\_atr2\_correction\_mean vs Slug



Right In: -3699.522 $\pm$ 3217.843  $\chi^2$ /NDF: 13.8/16

Left Out: 4515.941 $\pm$ 3131.710  $\chi^2$ /NDF:6.1/8

Right Out: 1544.858 $\pm$ 2896.847  $\chi^2$ /NDF: 16.8/18

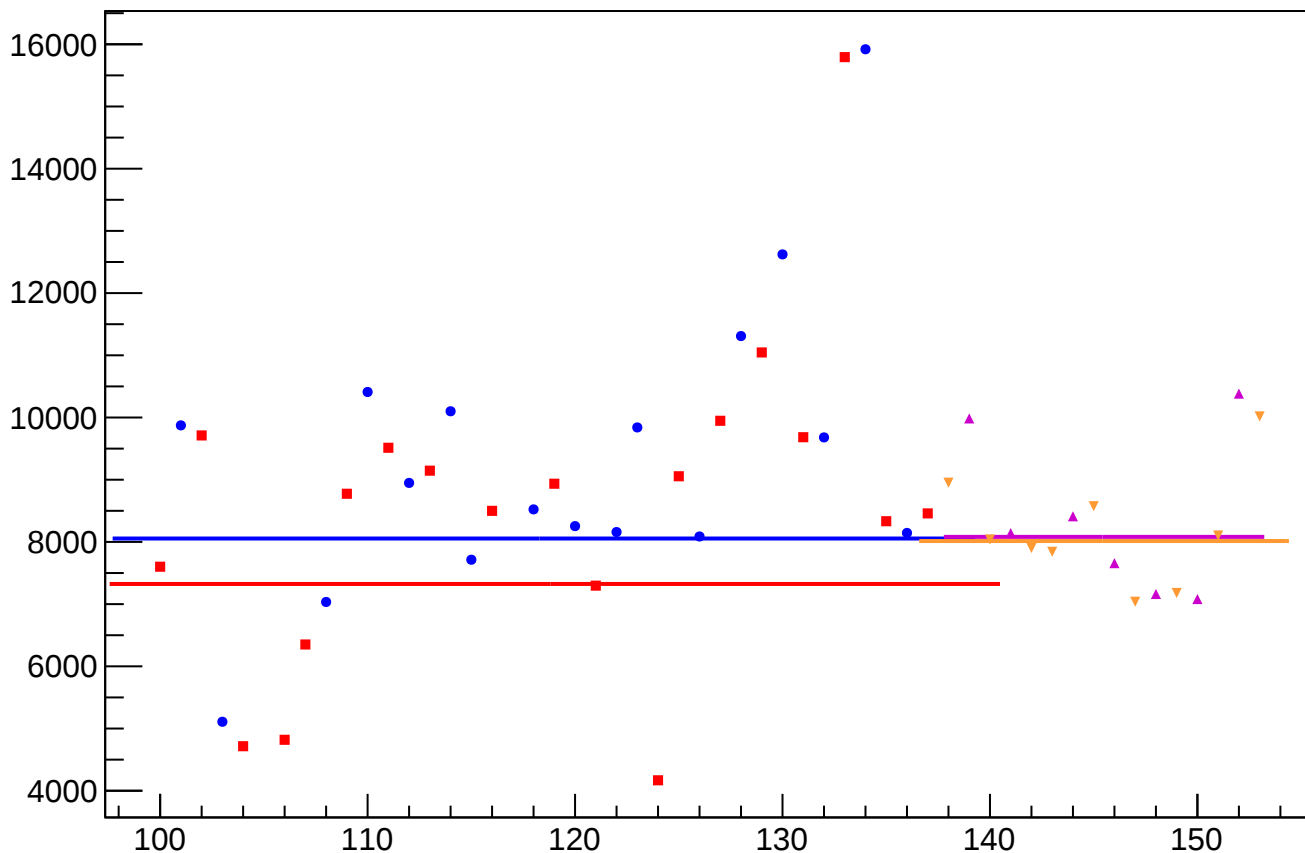
Left In: -2129.492 $\pm$ 3388.338  $\chi^2$ /NDF:4.6/6

+ sign 519.634 $\pm$ 2244.287  $\chi^2$ /NDF: 23.3/25

All: 251.424 $\pm$ 1571.728  $\chi^2$ /NDF: 45.4/51

- sign -6.736 $\pm$ 2201.838  $\chi^2$ /NDF: 22.0/25

# asym\_atr2\_correction\_rms vs Slug



Right In: 8054.772 $\pm$ 2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 8014.360 $\pm$ 2.214  $\chi^2/\text{NDF}$ : 138314.5/8

Right Out: 7324.291 $\pm$ 2.048  $\chi^2/\text{NDF}$ : 1336145.7/18

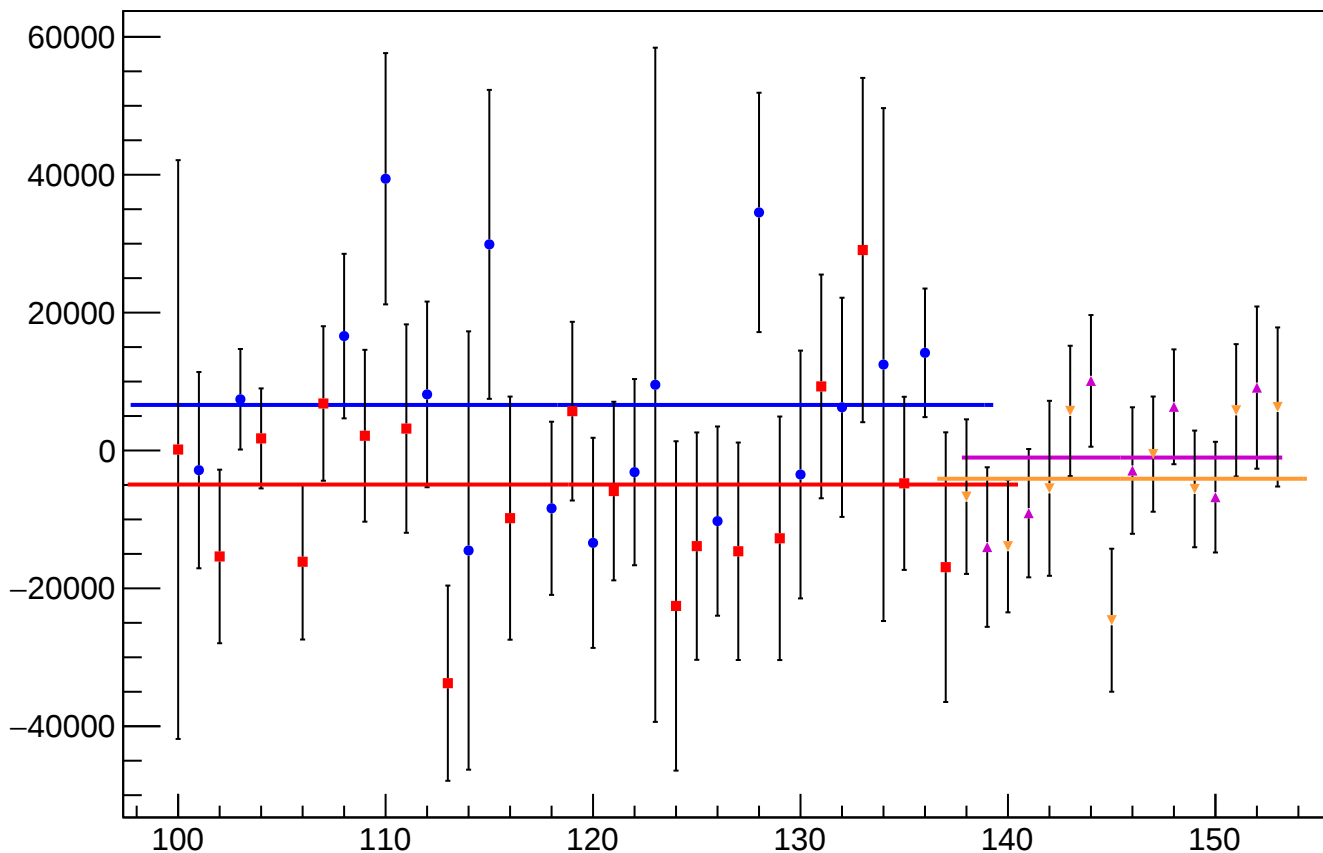
Left In: 8081.241 $\pm$ 2.396  $\chi^2/\text{NDF}$ : 207569.8/6

+ sign 8034.018 $\pm$ 1.587  $\chi^2/\text{NDF}$ : 959239.9/25

All: 7835.252 $\pm$ 1.111  $\chi^2/\text{NDF}$ : 2591407.5/51

- sign 7643.934 $\pm$ 1.557  $\chi^2/\text{NDF}$ : 1601380.1/25

# asym\_atr2\_mean vs Slug



Right In: 6607.332 $\pm$ 3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -4096.661 $\pm$ 3294.164  $\chi^2/\text{NDF}$ : 8.2/8

Right Out: -4938.727 $\pm$ 3167.808  $\chi^2/\text{NDF}$ : 13.6/18

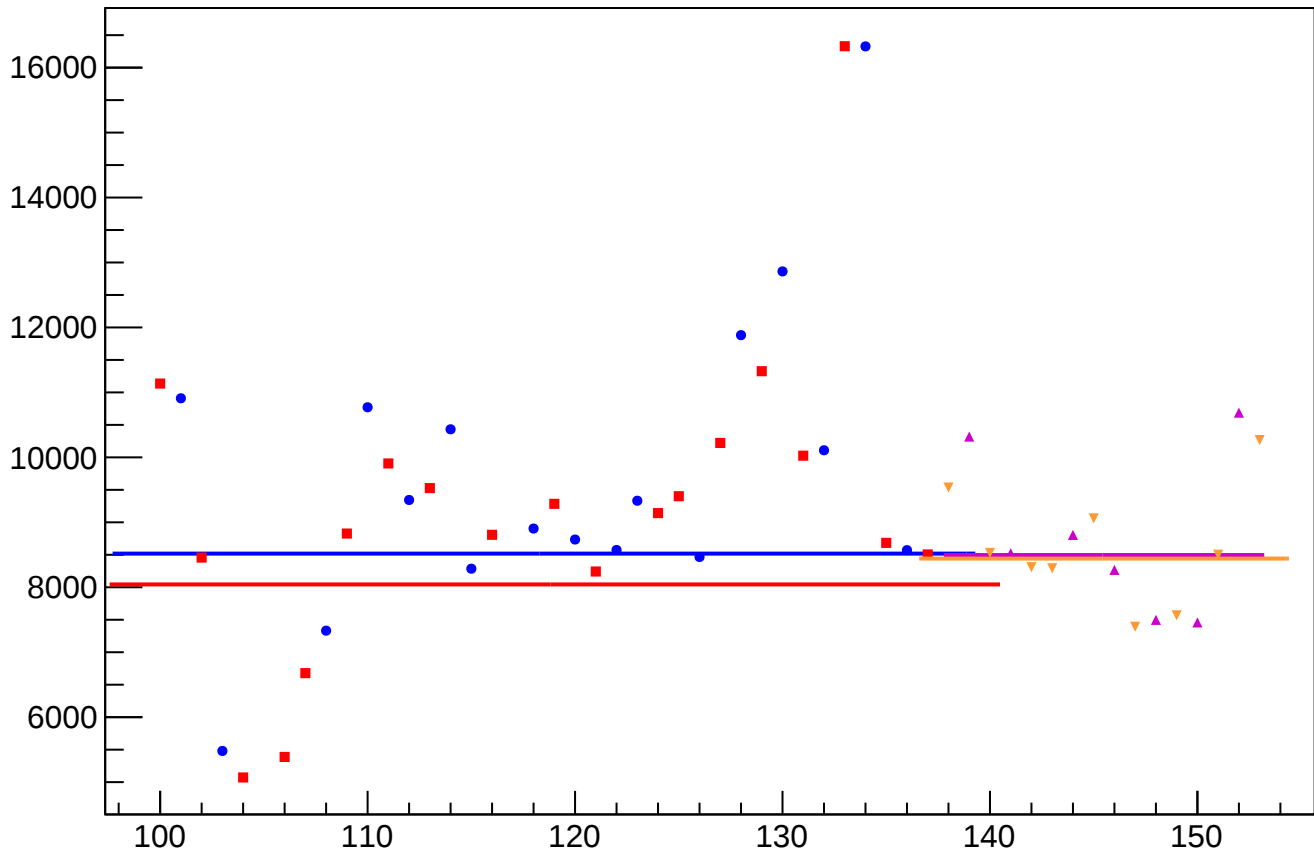
Left In: -1026.362 $\pm$ 3557.844  $\chi^2/\text{NDF}$ : 5.4/6

+ sign 1092.648 $\pm$ 2364.463  $\chi^2/\text{NDF}$ : 28.0/25

All: -1056.700 $\pm$ 1672.437  $\chi^2/\text{NDF}$ : 49.3/51

- sign -3208.671 $\pm$ 2365.905  $\chi^2/\text{NDF}$ : 19.7/25

# asym\_atr2\_rms vs Slug



Right In: 8518.273+/-2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 8441.971+/-2.329  $\chi^2/\text{NDF}$ :129949.5/8

Right Out: 8043.754+/-2.240  $\chi^2/\text{NDF}$ : 953572.9/18

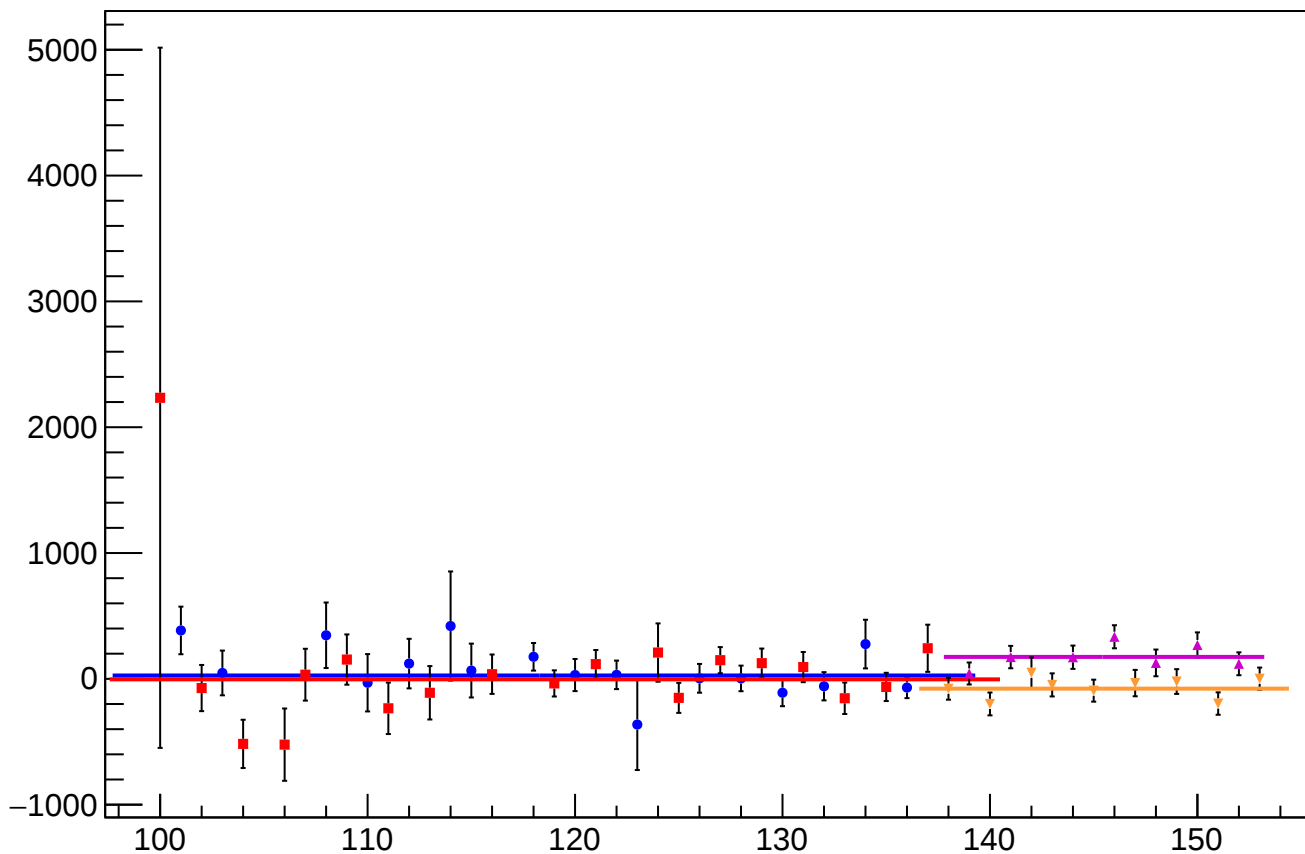
Left In: 8496.050+/-2.516  $\chi^2/\text{NDF}$ :184567.8/6

+ sign 8478.962+/-1.672  $\chi^2/\text{NDF}$ : 902464.7/25

All: 8361.426+/-1.183  $\chi^2/\text{NDF}$ : 2068525.2/53

- sign 8243.752+/-1.673  $\chi^2/\text{NDF}$ : 1156170.6/25

# dit\_asym\_sam1\_mean vs Slug



Right In: 26.713+/-33.626  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: -77.826+/-31.358  $\chi^2/\text{NDF}$ : 6.1/8

Right Out: -4.007+/-33.839  $\chi^2/\text{NDF}$ : 24.6/18

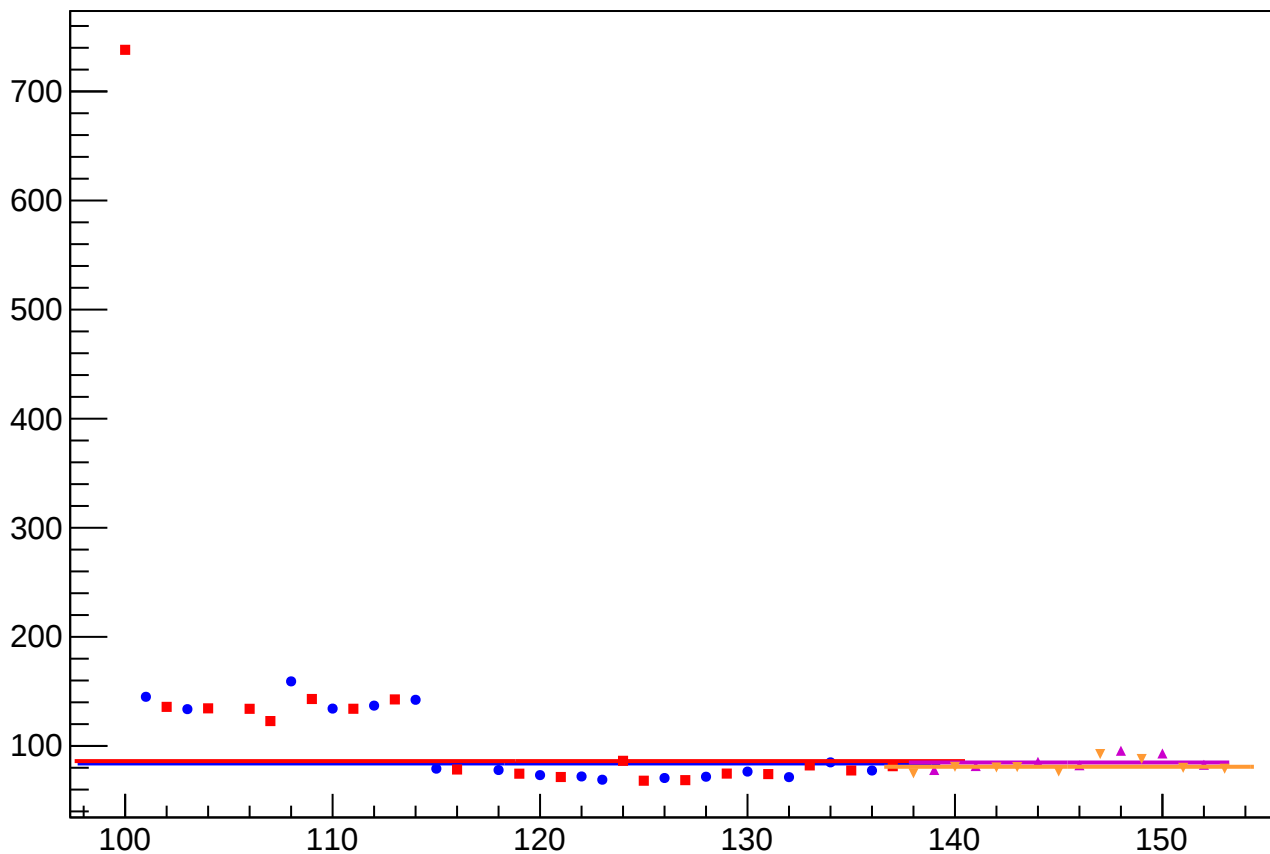
Left In: 174.364+/-35.302  $\chi^2/\text{NDF}$ : 6.8/6

+ sign -29.201+/-22.933  $\chi^2/\text{NDF}$ : 25.8/25

All: 22.615+/-16.720  $\chi^2/\text{NDF}$ : 81.3/51

- sign 81.408+/-24.429  $\chi^2/\text{NDF}$ : 44.7/25

# dit\_asym\_sam1\_rms vs Slug



Right In: 83.961 $\pm$ 0.024  $\chi^2$ /NDF: 960253.6/16

Left Out: 80.920 $\pm$ 0.022  $\chi^2$ /NDF: 50816.6/8

Right Out: 86.109 $\pm$ 0.024  $\chi^2$ /NDF: 1136227.7/18

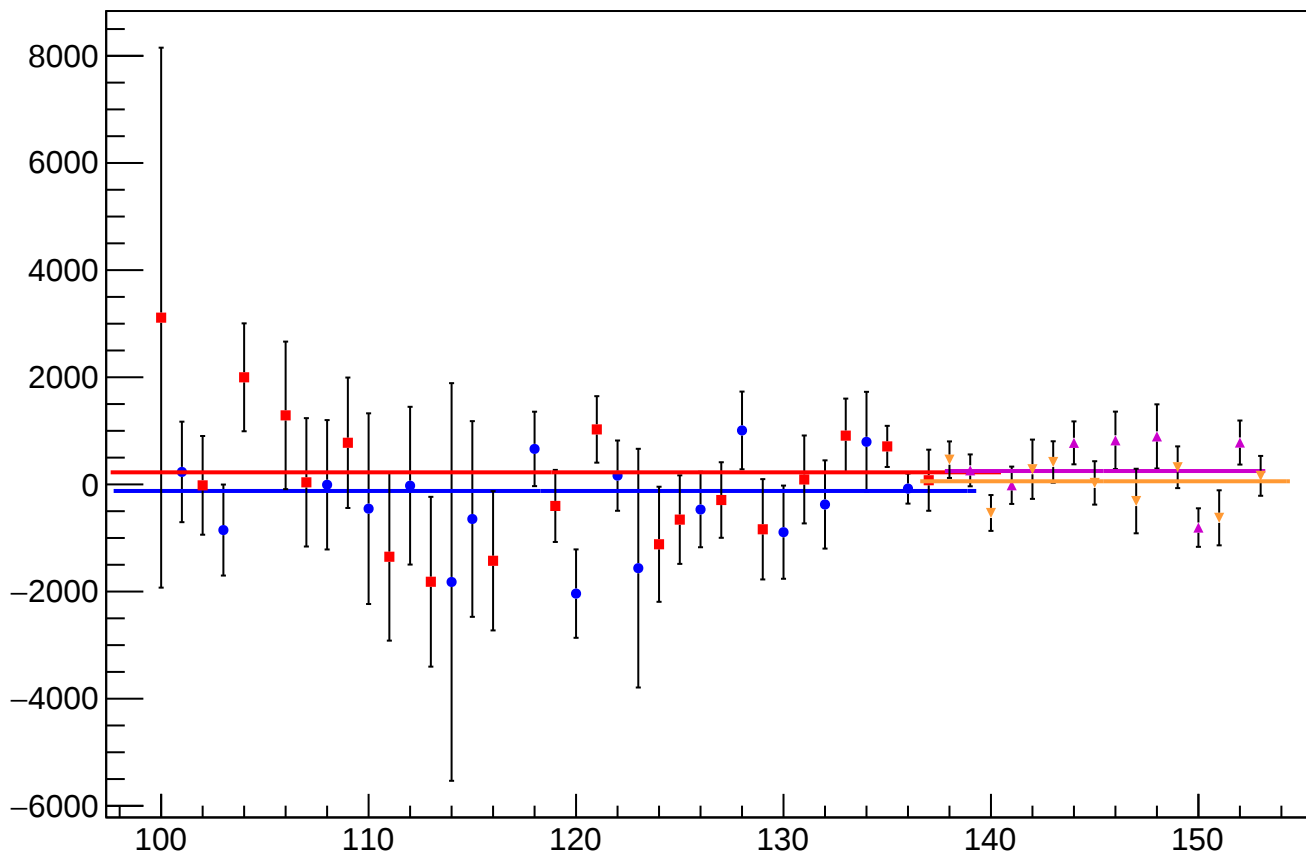
Left In: 84.833 $\pm$ 0.025  $\chi^2$ /NDF: 51798.3/6

+ sign 82.334 $\pm$ 0.016  $\chi^2$ /NDF: 1019819.0/25

All: 83.816 $\pm$ 0.012  $\chi^2$ /NDF: 2227033.4/51

- sign 85.498 $\pm$ 0.017  $\chi^2$ /NDF: 1189387.5/25

# asym\_sam1\_correction\_mean vs Slug



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}$ : 13.0/16

Left Out:  $58.505 \pm 136.156$   $\chi^2/\text{NDF}$ : 8.2/8

Right Out:  $225.420 \pm 184.973$   $\chi^2/\text{NDF}$ : 18.3/18

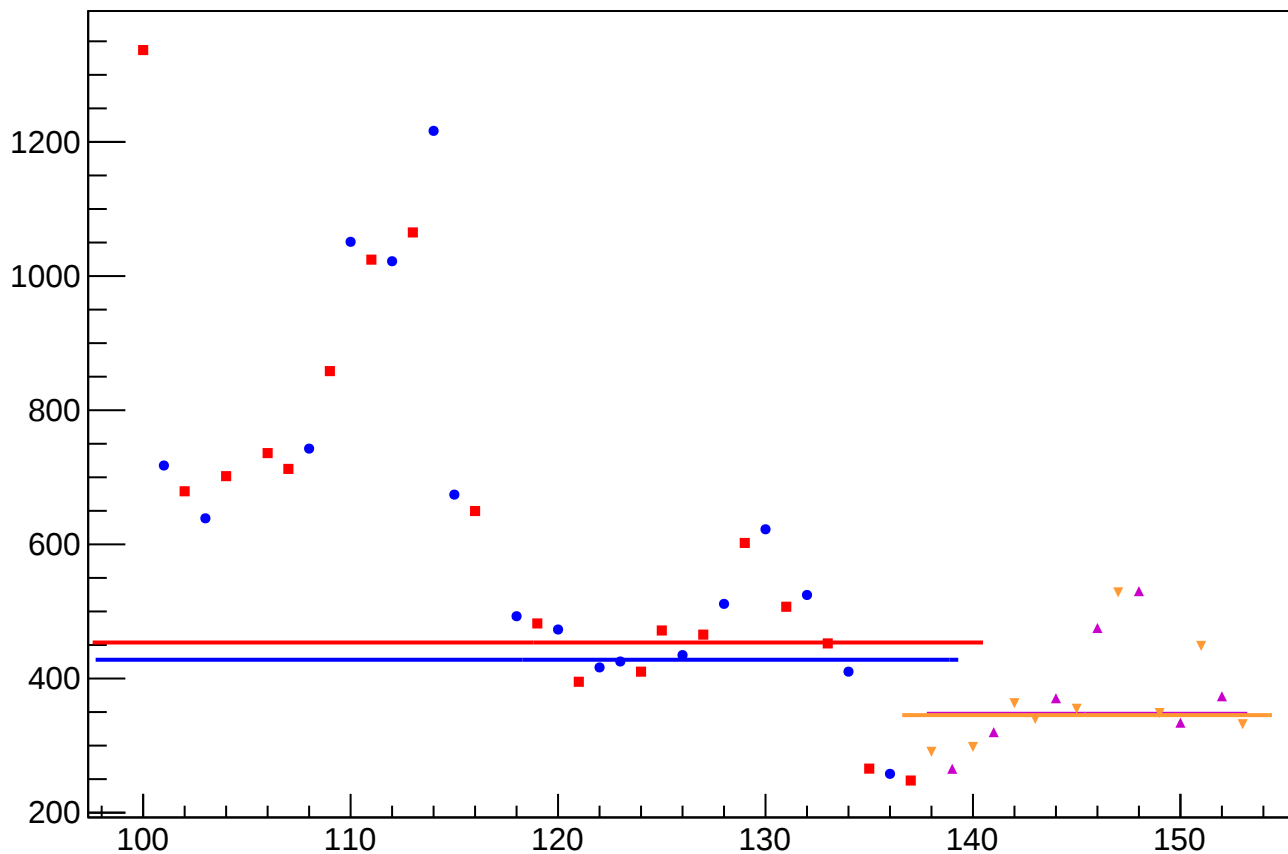
Left In:  $249.928 \pm 147.964$   $\chi^2/\text{NDF}$ : 14.9/6

+ sign  $-7.530 \pm 108.499$   $\chi^2/\text{NDF}$ : 21.9/25

All:  $108.629 \pm 79.094$   $\chi^2/\text{NDF}$ : 57.6/51

- sign  $240.365 \pm 115.545$   $\chi^2/\text{NDF}$ : 33.2/25

# asym\_sam1\_correction\_rms vs Slug



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 345.454+/-0.096  $\chi^2/\text{NDF}$ :363142.2/8

Right Out: 453.699+/-0.131  $\chi^2/\text{NDF}$ : 2134547.2/18

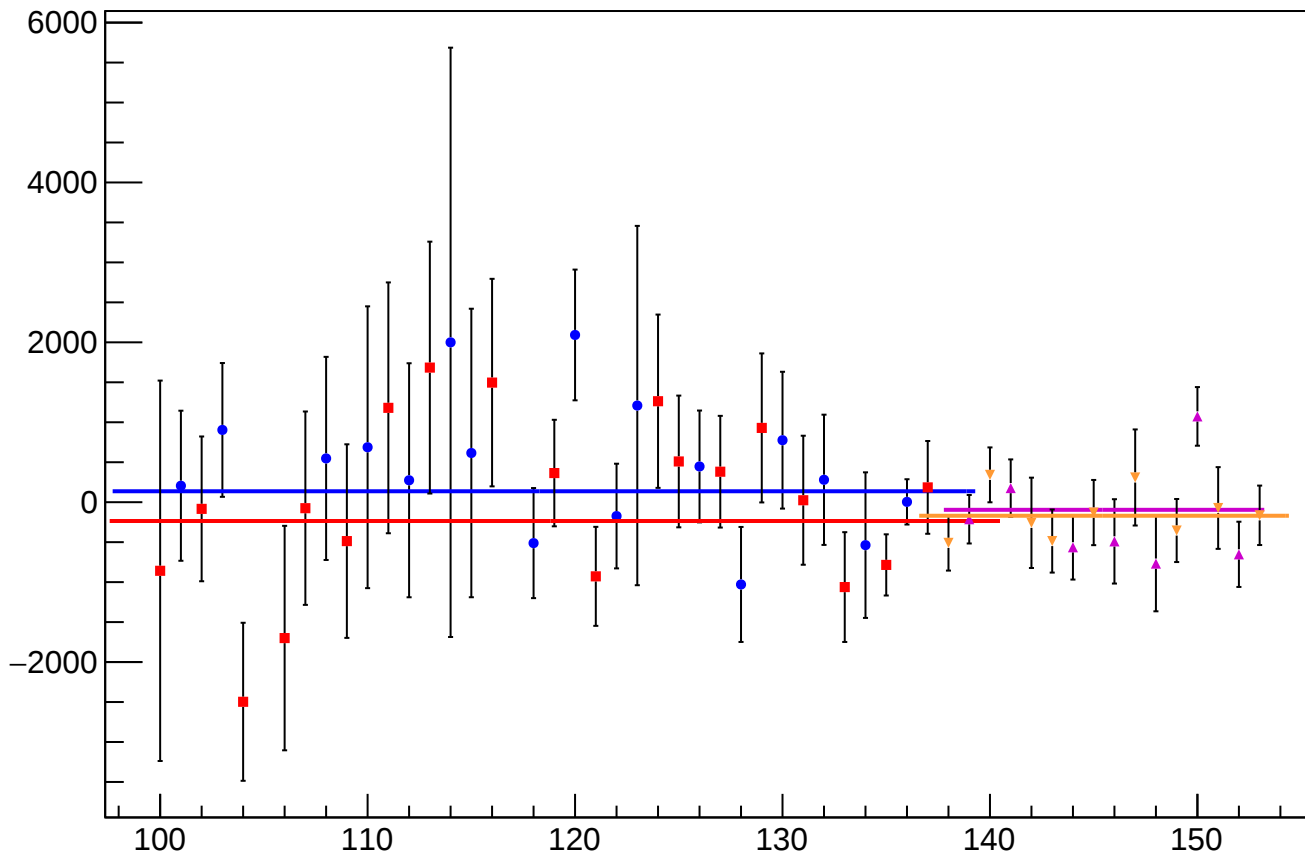
Left In: 347.421+/-0.105  $\chi^2/\text{NDF}$ :481964.8/6

+ sign 375.579+/-0.077  $\chi^2/\text{NDF}$ : 2693606.0/25

All: 381.816+/-0.056  $\chi^2/\text{NDF}$ : 5726838.1/51

- sign 388.890+/-0.082  $\chi^2/\text{NDF}$ : 3019124.8/25

# asym\_sam1\_mean vs Slug



Right In:  $136.810 \pm 179.609$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $-169.515 \pm 137.859$   $\chi^2/\text{NDF}$ : 4.7/8

Right Out:  $-235.334 \pm 184.025$   $\chi^2/\text{NDF}$ : 21.8/18

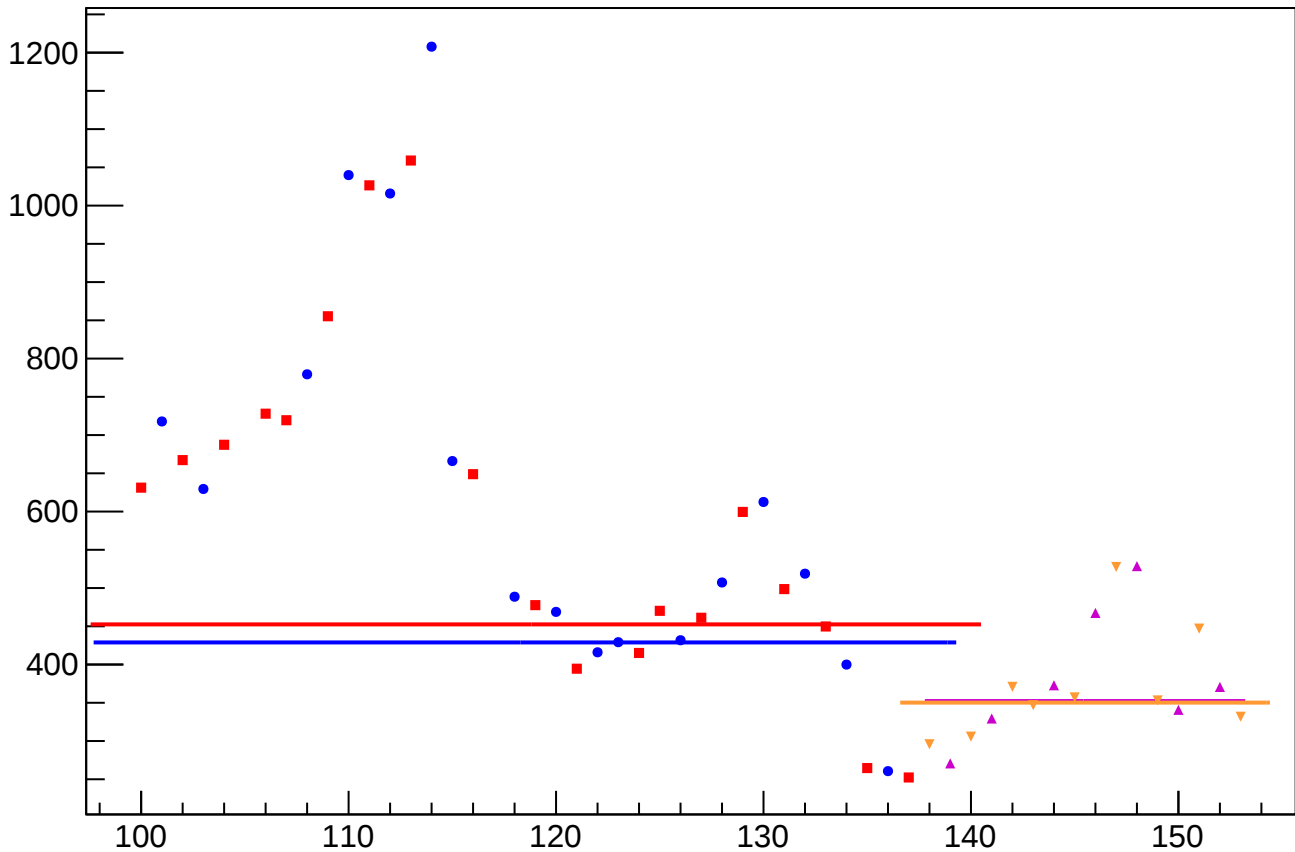
Left In:  $-95.354 \pm 149.735$   $\chi^2/\text{NDF}$ : 15.9/6

+ sign  $-55.952 \pm 109.359$   $\chi^2/\text{NDF}$ : 19.2/25

All:  $-100.671 \pm 79.620$   $\chi^2/\text{NDF}$ : 57.6/51

- sign  $-151.113 \pm 116.145$   $\chi^2/\text{NDF}$ : 38.1/25

# asym\_sam1\_rms vs Slug



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 350.221+/-0.097  $\chi^2/\text{NDF}$ : 337132.4/8

Right Out: 452.487+/-0.130  $\chi^2/\text{NDF}$ : 2042099.3/18

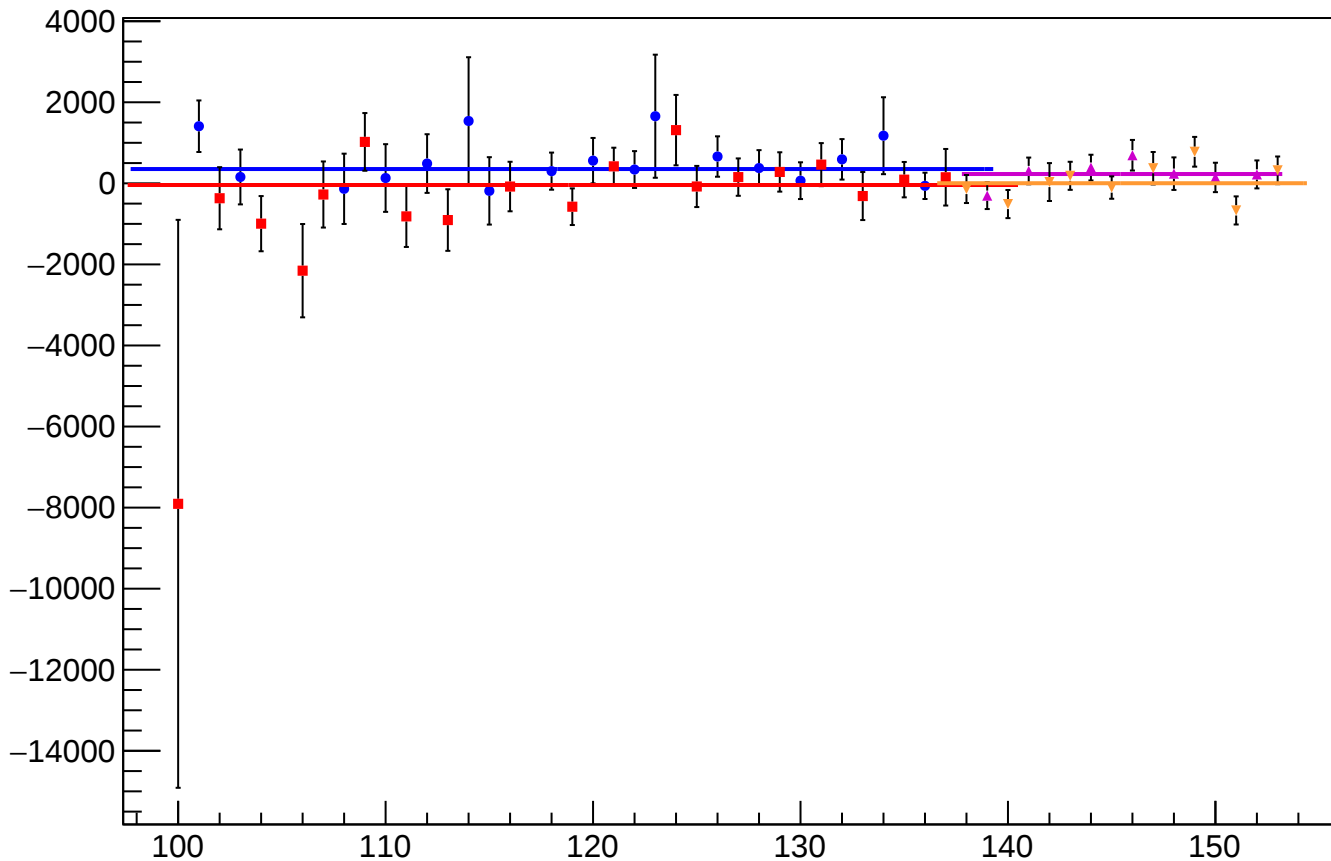
Left In: 352.227+/-0.106  $\chi^2/\text{NDF}$ : 433747.2/6

+ sign 379.385+/-0.077  $\chi^2/\text{NDF}$ : 2589169.2/25

All: 385.390+/-0.056  $\chi^2/\text{NDF}$ : 5435023.2/51

- sign 392.164+/-0.082  $\chi^2/\text{NDF}$ : 2833021.3/25

# dit\_asym\_sam2\_mean vs Slug



Right In:  $352.927 \pm 137.298$   $\chi^2/\text{NDF}$ : 8.5/16

Left Out:  $2.952 \pm 116.826$   $\chi^2/\text{NDF}$ : 12.7/8

Right Out:  $-41.079 \pm 138.996$   $\chi^2/\text{NDF}$ : 18.2/18

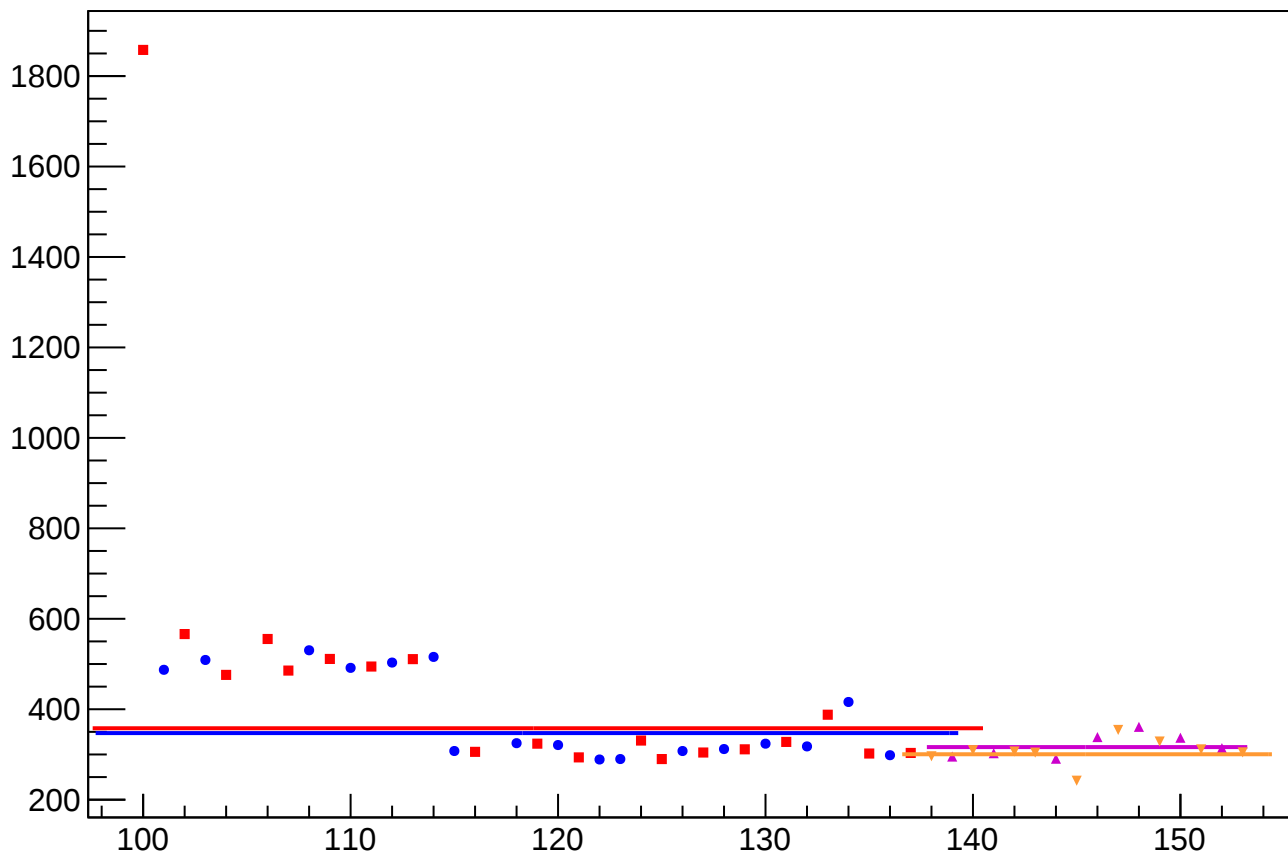
Left In:  $229.970 \pm 131.846$   $\chi^2/\text{NDF}$ : 4.5/6

+ sign  $149.927 \pm 88.975$   $\chi^2/\text{NDF}$ : 25.0/25

All:  $127.508 \pm 65.149$   $\chi^2/\text{NDF}$ : 49.8/51

- sign  $101.595 \pm 95.657$   $\chi^2/\text{NDF}$ : 24.7/25

# dit\_asym\_sam2\_rms vs Slug



Right In: 347.280+/-0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 300.475+/-0.083  $\chi^2/\text{NDF}$ : 141991.0/8

Right Out: 357.955+/-0.098  $\chi^2/\text{NDF}$ : 851646.4/18

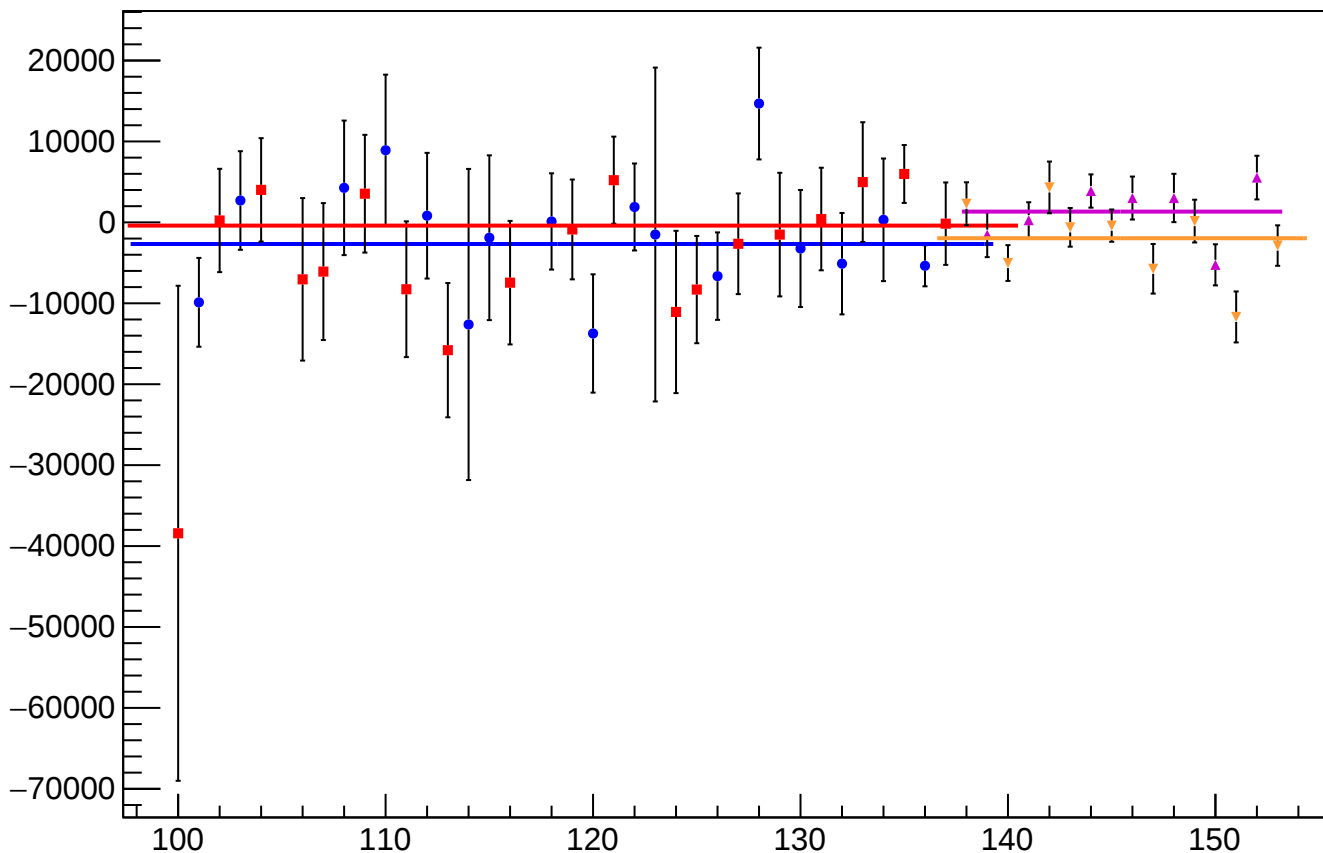
Left In: 316.332+/-0.093  $\chi^2/\text{NDF}$ : 62866.3/6

+ sign 320.131+/-0.063  $\chi^2/\text{NDF}$ : 895713.8/25

All: 327.513+/-0.046  $\chi^2/\text{NDF}$ : 1934314.1/51

- sign 336.045+/-0.068  $\chi^2/\text{NDF}$ : 1008920.5/25

# asym\_sam2\_correction\_mean vs Slug



Right In:  $-2674.025 \pm 1456.188$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-1959.514 \pm 850.675$   $\chi^2/\text{NDF}$ : 21.1/8

Right Out:  $-398.443 \pm 1515.968$   $\chi^2/\text{NDF}$ : 15.9/18

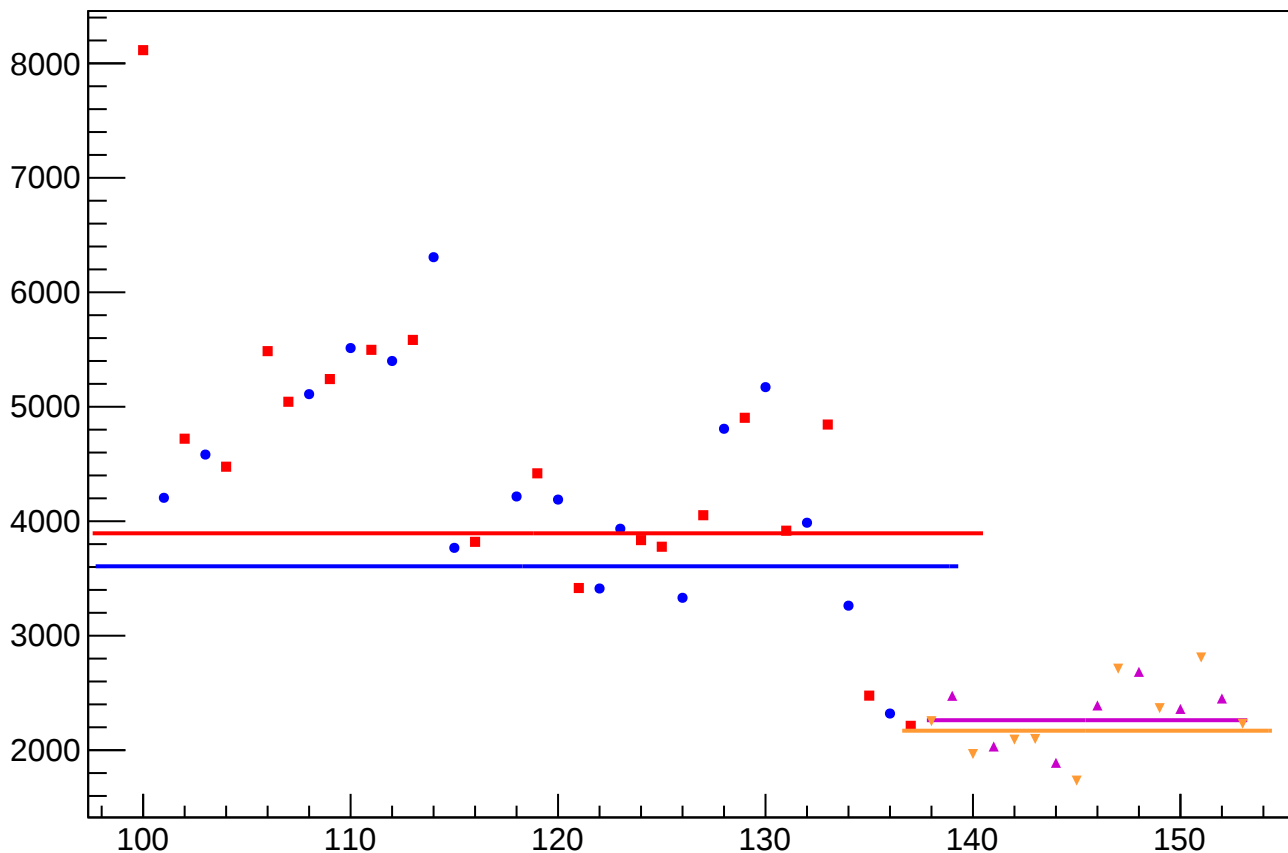
Left In:  $1330.481 \pm 946.339$   $\chi^2/\text{NDF}$ : 12.7/6

+ sign  $-2141.311 \pm 734.525$   $\chi^2/\text{NDF}$ : 38.1/25

All:  $-780.153 \pm 541.909$   $\chi^2/\text{NDF}$ : 75.1/51

- sign  $845.669 \pm 802.765$   $\chi^2/\text{NDF}$ : 29.5/25

# asym\_sam2\_correction\_rms vs Slug



Right In: 3606.359+/-1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2170.080+/-0.602  $\chi^2/\text{NDF}$ : 274907.3/8

Right Out: 3894.596+/-1.072  $\chi^2/\text{NDF}$ : 1032752.3/18

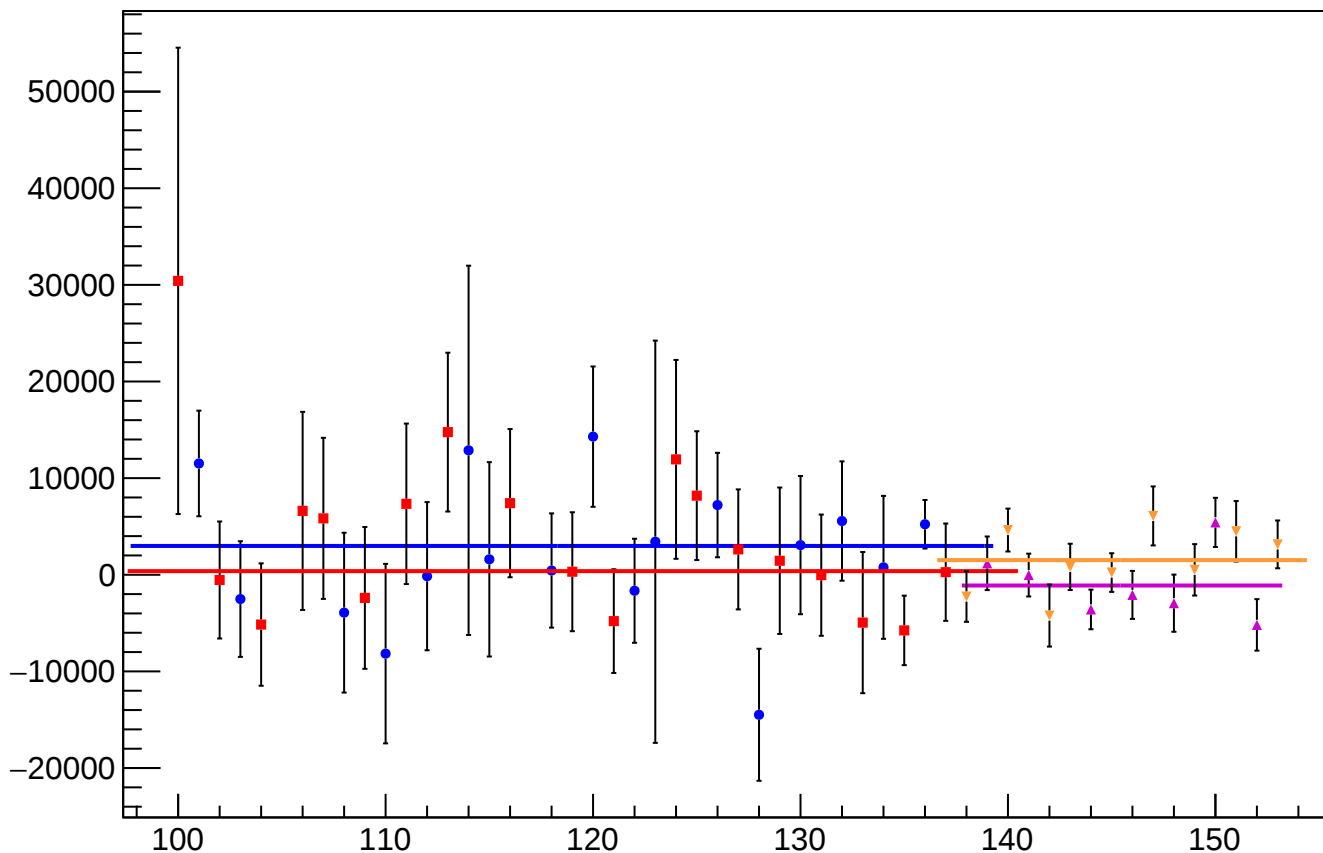
Left In: 2261.810+/-0.669  $\chi^2/\text{NDF}$ : 156518.1/6

+ sign 2535.521+/-0.519  $\chi^2/\text{NDF}$ : 2818059.1/25

All: 2619.434+/-0.383  $\chi^2/\text{NDF}$ : 5734131.5/51

- sign 2719.664+/-0.568  $\chi^2/\text{NDF}$ : 2858792.3/25

# asym\_sam2\_mean vs Slug



Right In: 2983.609 $\pm$ 1443.630  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1513.638 $\pm$ 849.690  $\chi^2/\text{NDF}$ : 11.5/8

Right Out: 377.377 $\pm$ 1507.395  $\chi^2/\text{NDF}$ : 15.0/18

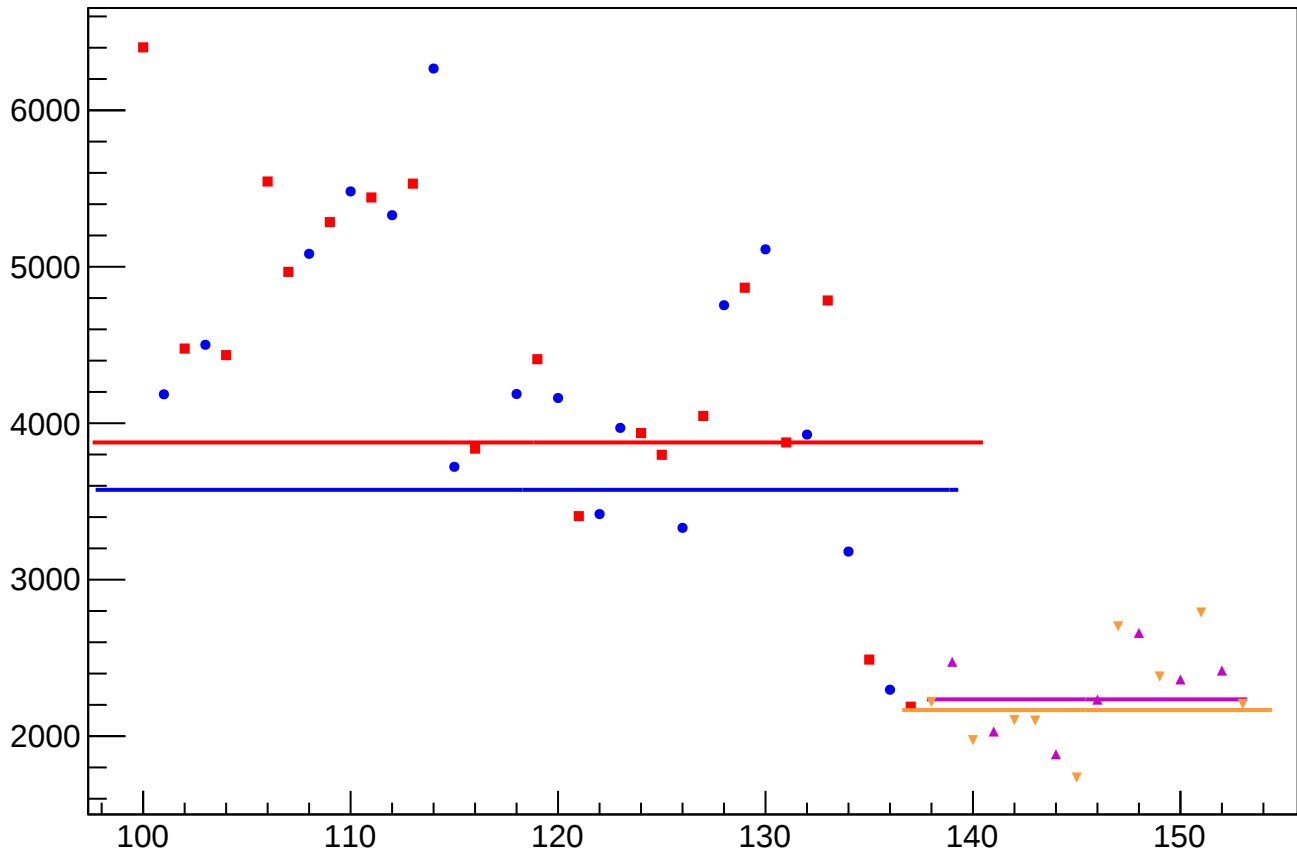
Left In: -1111.459 $\pm$ 935.244  $\chi^2/\text{NDF}$ : 11.9/6

+ sign 1891.851 $\pm$ 732.267  $\chi^2/\text{NDF}$ : 29.7/25

All: 702.823 $\pm$ 538.515  $\chi^2/\text{NDF}$ : 63.0/51

- sign -697.639 $\pm$ 794.711  $\chi^2/\text{NDF}$ : 27.6/25

# asym\_sam2\_rms vs Slug



Right In: 3574.362 $\pm$ 1.021  $\chi^2$ /NDF: 1091350.4/16

Left Out: 2166.904 $\pm$ 0.601  $\chi^2$ /NDF:265649.6/8

Right Out: 3877.124 $\pm$ 1.066  $\chi^2$ /NDF: 990125.2/18

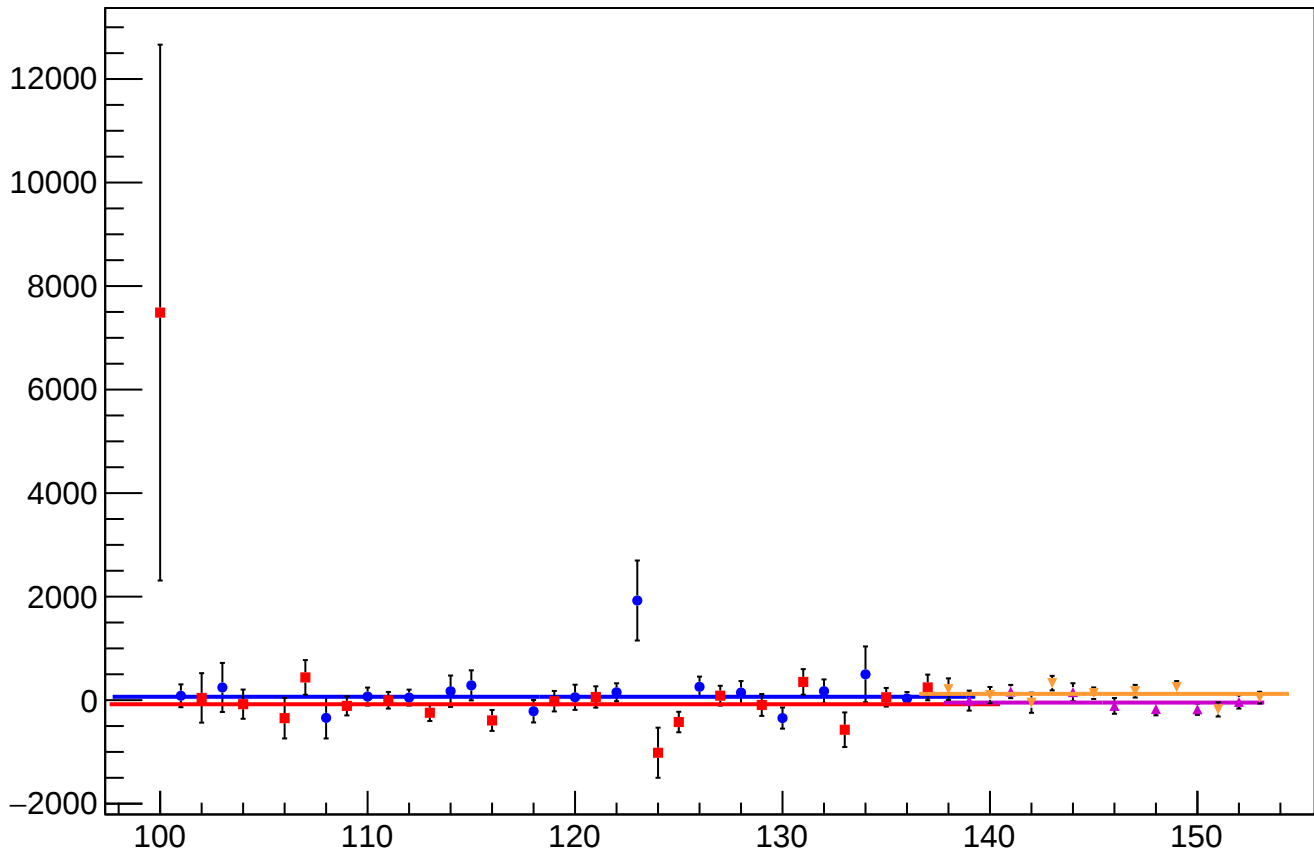
Left In: 2235.002 $\pm$ 0.661  $\chi^2$ /NDF:146412.5/6

+ sign 2529.033 $\pm$ 0.518  $\chi^2$ /NDF: 2768909.6/25

All: 2603.600 $\pm$ 0.381  $\chi^2$ /NDF: 5664391.4/51

- sign 2691.427 $\pm$ 0.562  $\chi^2$ /NDF: 2850315.9/25

# dit\_asym\_sam3\_mean vs Slug



Right In: 65.225+/-52.700  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 121.177+/-44.994  $\chi^2/\text{NDF}$ : 9.9/8

Right Out: -78.699+/-52.341  $\chi^2/\text{NDF}$ : 24.3/18

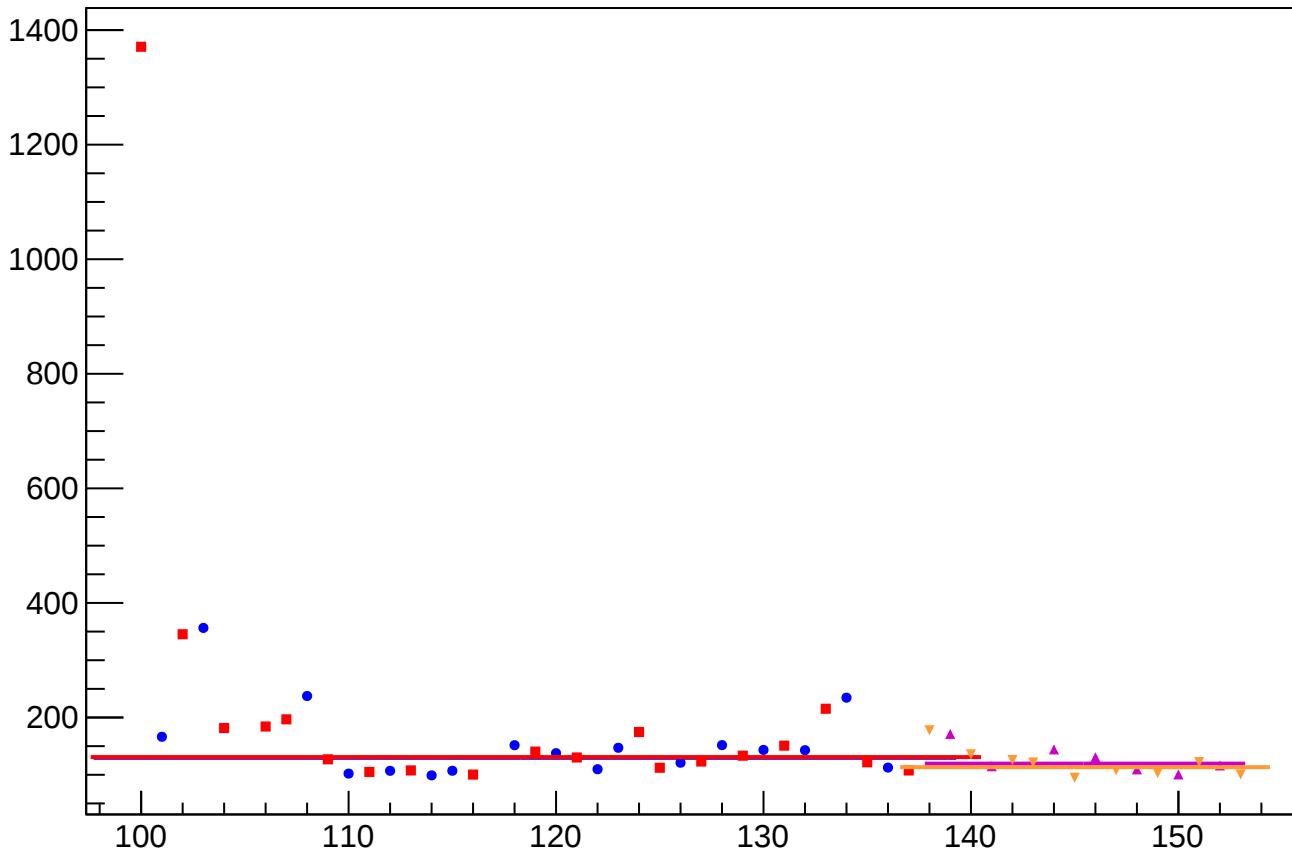
Left In: -46.865+/-51.521  $\chi^2/\text{NDF}$ : 6.8/6

+ sign 97.587+/-34.219  $\chi^2/\text{NDF}$ : 26.2/25

All: 23.160+/-25.033  $\chi^2/\text{NDF}$ : 67.7/51

- sign -62.531+/-36.717  $\chi^2/\text{NDF}$ : 31.3/25

# dit\_asym\_sam3\_rms vs Slug



Right In:  $129.697 \pm 0.037$   $\chi^2/\text{NDF}$ : 989682.4/16

Left Out:  $113.298 \pm 0.032$   $\chi^2/\text{NDF}$ : 353290.5/8

Right Out:  $130.878 \pm 0.037$   $\chi^2/\text{NDF}$ : 1042325.1/18

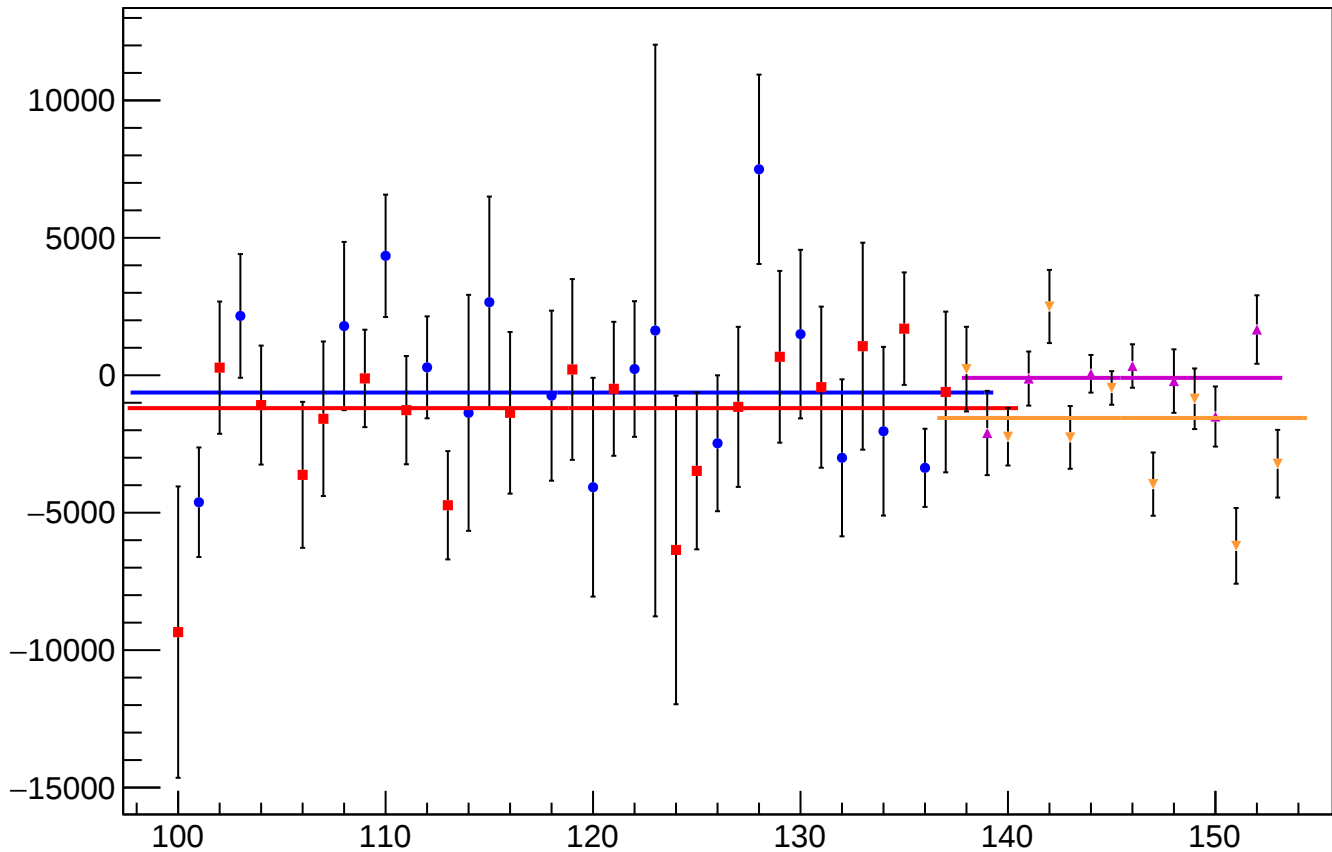
Left In:  $119.498 \pm 0.036$   $\chi^2/\text{NDF}$ : 274032.4/6

+ sign  $120.212 \pm 0.024$   $\chi^2/\text{NDF}$ : 1454973.2/25

All:  $122.483 \pm 0.018$   $\chi^2/\text{NDF}$ : 2838304.2/51

- sign  $125.098 \pm 0.026$   $\chi^2/\text{NDF}$ : 1364375.3/25

# asym\_sam3\_correction\_mean vs Slug



Right In:  $-628.175 \pm 621.486$   $\chi^2/\text{NDF}$ : 24.3/16

Left Out:  $-1553.174 \pm 351.102$   $\chi^2/\text{NDF}$ : 32.6/8

Right Out:  $-1196.185 \pm 595.685$   $\chi^2/\text{NDF}$ : 11.8/18

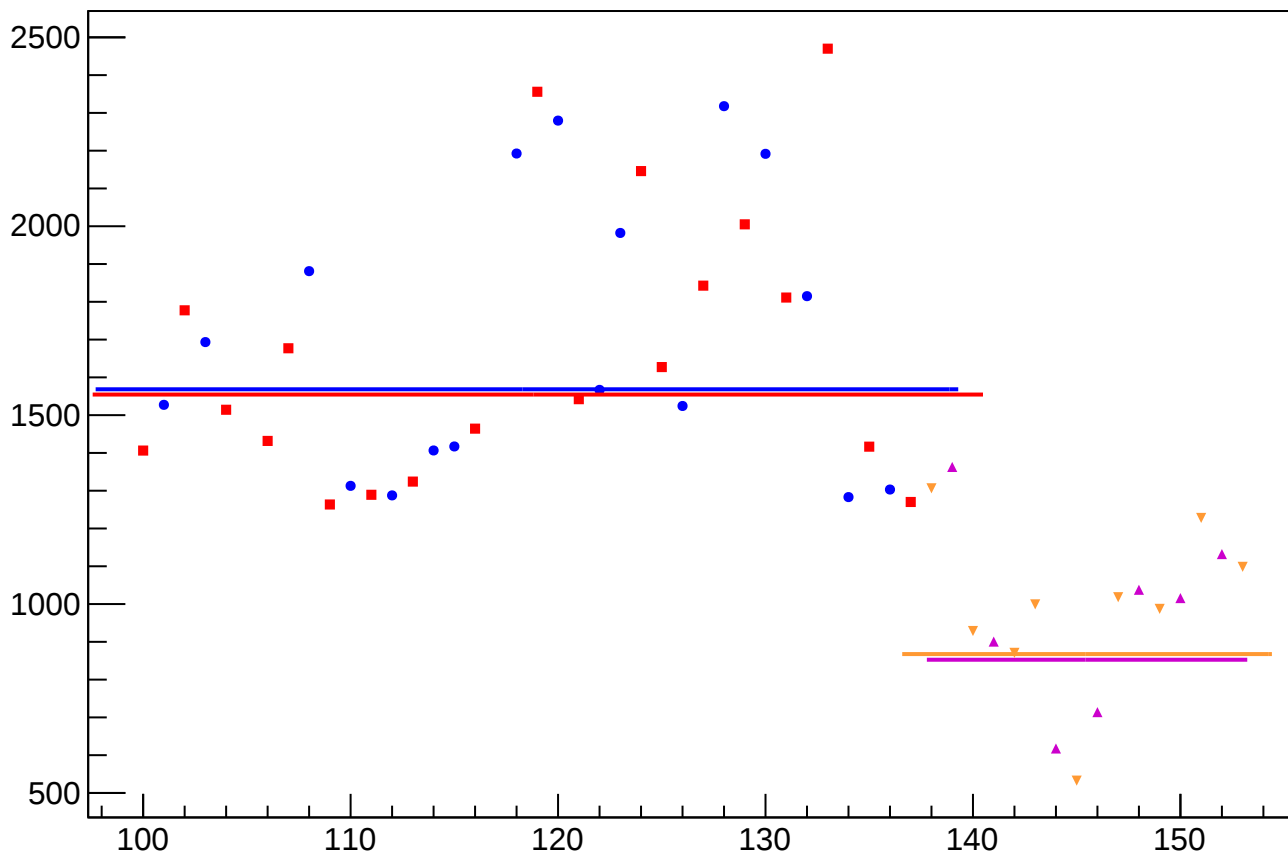
Left In:  $-95.221 \pm 367.170$   $\chi^2/\text{NDF}$ : 5.7/6

+ sign  $-1329.380 \pm 305.693$   $\chi^2/\text{NDF}$ : 58.6/25

All:  $-874.208 \pm 218.546$   $\chi^2/\text{NDF}$ : 83.1/51

- sign  $-398.344 \pm 312.564$   $\chi^2/\text{NDF}$ : 20.0/25

# asym\_sam3\_correction\_rms vs Slug



Right In: 1568.480 $\pm$ 0.439  $\chi^2$ /NDF: 534197.6/16

Left Out: 867.616 $\pm$ 0.248  $\chi^2$ /NDF: 1062073.8/8

Right Out: 1554.527 $\pm$ 0.421  $\chi^2$ /NDF: 512038.4/18

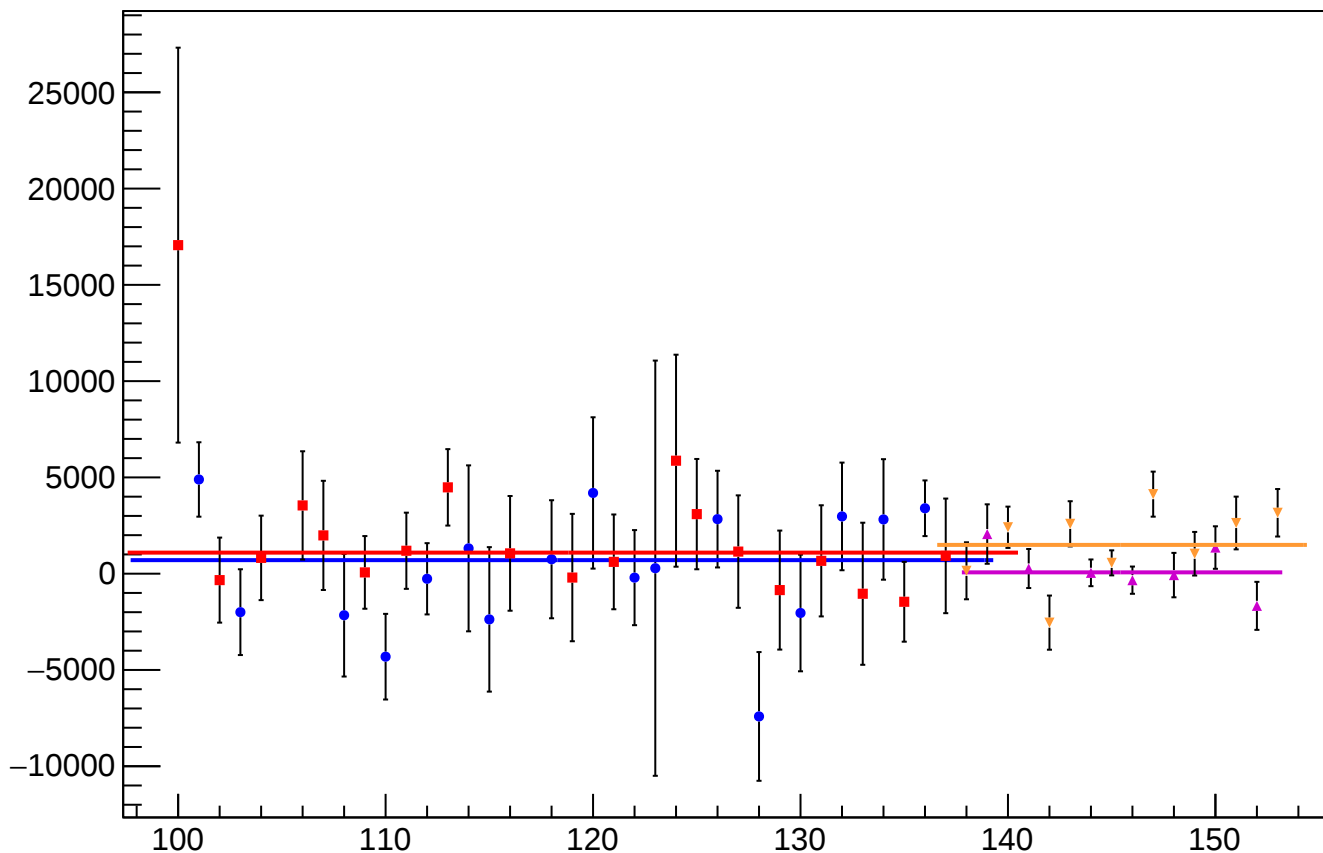
Left In: 852.614 $\pm$ 0.260  $\chi^2$ /NDF: 719787.5/6

+ sign 1037.183 $\pm$ 0.216  $\chi^2$ /NDF: 3524408.8/25

All: 1041.429 $\pm$ 0.155  $\chi^2$ /NDF: 6769389.8/51

- sign 1045.868 $\pm$ 0.221  $\chi^2$ /NDF: 3244191.7/25

# asym\_sam3\_mean vs Slug



Right In: 703.057 $\pm$ 620.618  $\chi^2$ /NDF: 26.0/16

Left Out: 1494.865 $\pm$ 362.164  $\chi^2$ /NDF:20.5/8

Right Out: 1093.862 $\pm$ 603.204  $\chi^2$ /NDF: 10.6/18

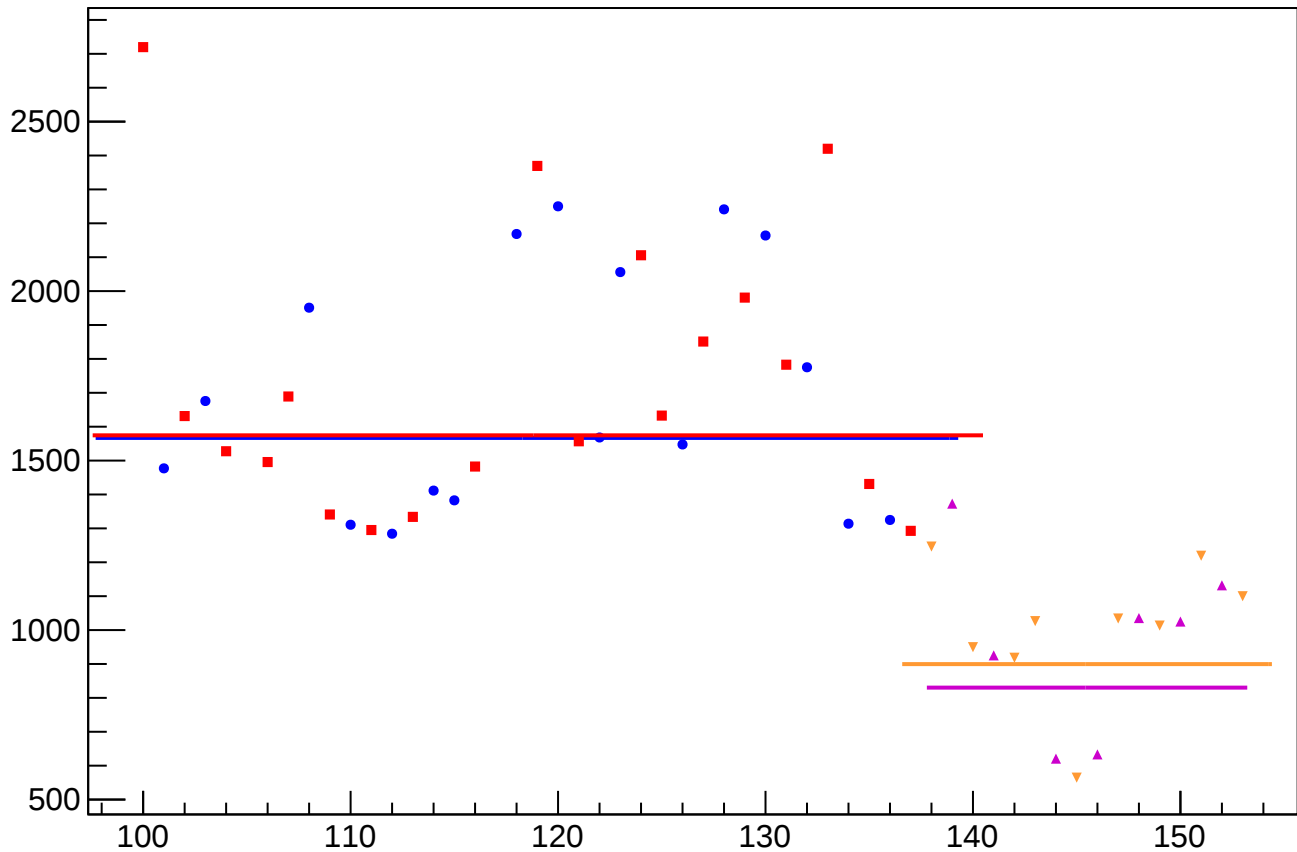
Left In: 68.779 $\pm$ 360.751  $\chi^2$ /NDF:5.4/6

+ sign 1293.723 $\pm$ 312.799  $\chi^2$ /NDF: 47.7/25

All: 811.379 $\pm$ 220.045  $\chi^2$ /NDF: 70.5/51

- sign 338.832 $\pm$ 309.606  $\chi^2$ /NDF: 18.1/25

# asym\_sam3\_rms vs Slug



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 899.593 $\pm$ 0.256  $\chi^2$ /NDF: 877022.1/8

Right Out: 1574.525 $\pm$ 0.427  $\chi^2$ /NDF: 464289.2/18

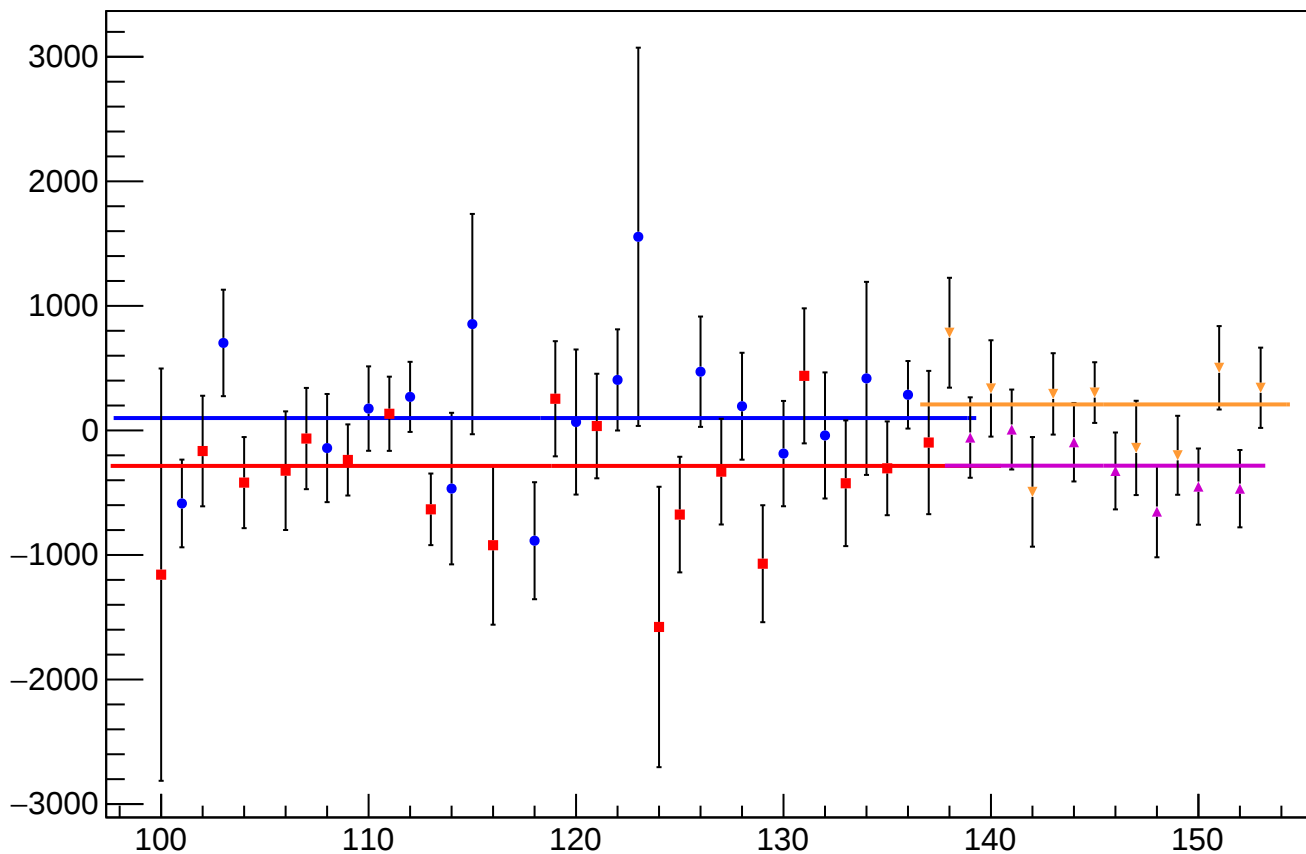
Left In: 830.228 $\pm$ 0.255  $\chi^2$ /NDF: 845168.5/6

+ sign 1069.117 $\pm$ 0.221  $\chi^2$ /NDF: 3101919.8/25

All: 1047.494 $\pm$ 0.156  $\chi^2$ /NDF: 6673142.1/51

- sign 1026.310 $\pm$ 0.219  $\chi^2$ /NDF: 3552301.4/25

# dit\_asym\_sam4\_mean vs Slug



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $208.772 \pm 112.742$   $\chi^2/\text{NDF}$ : 8.0/8

Right Out:  $-284.883 \pm 97.709$   $\chi^2/\text{NDF}$ : 14.0/18

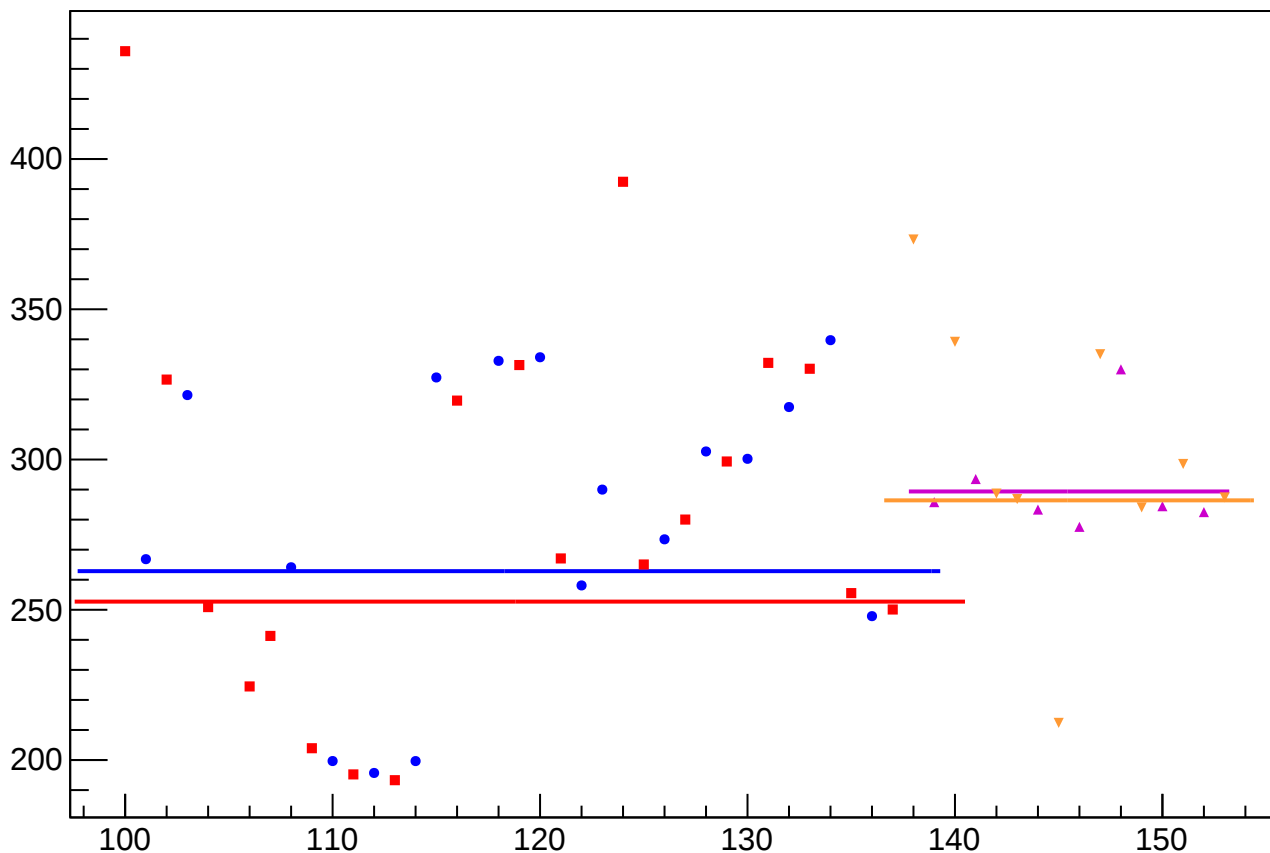
Left In:  $-283.104 \pm 120.959$   $\chi^2/\text{NDF}$ : 3.3/6

+ sign  $149.394 \pm 76.229$   $\chi^2/\text{NDF}$ : 24.5/25

All:  $-68.022 \pm 53.824$   $\chi^2/\text{NDF}$ : 58.0/51

- sign  $-284.181 \pm 76.008$   $\chi^2/\text{NDF}$ : 17.3/25

# dit\_asym\_sam4\_rms vs Slug



Right In: 262.856+/-0.073  $\chi^2/\text{NDF}$ : 411698.3/16

Left Out: 286.414+/-0.080  $\chi^2/\text{NDF}$ : 335249.6/8

Right Out: 252.720+/-0.069  $\chi^2/\text{NDF}$ : 539727.3/18

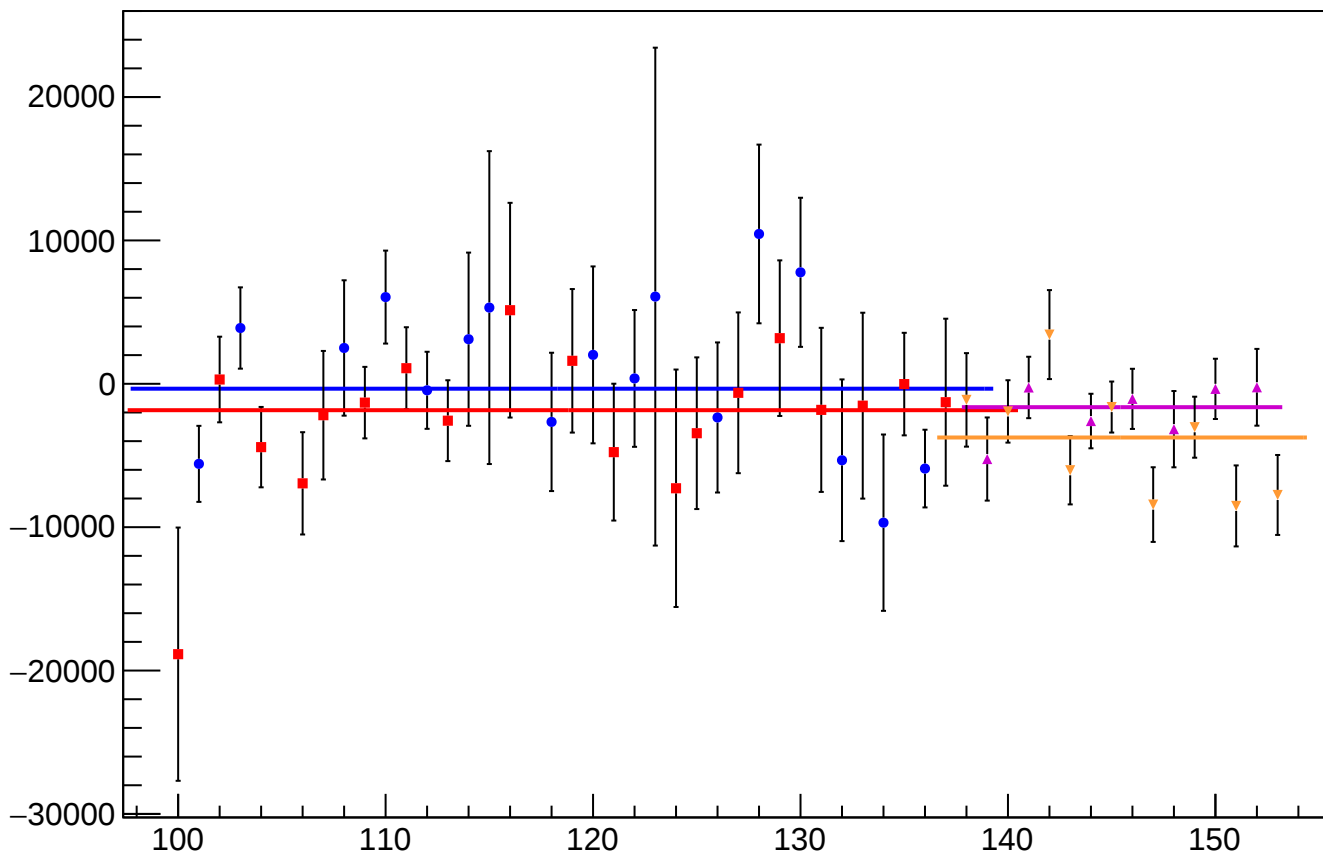
Left In: 289.371+/-0.086  $\chi^2/\text{NDF}$ : 30224.6/6

+ sign 273.626+/-0.054  $\chi^2/\text{NDF}$ : 794349.4/25

All: 270.400+/-0.038  $\chi^2/\text{NDF}$ : 1482565.3/51

- sign 267.192+/-0.054  $\chi^2/\text{NDF}$ : 681071.7/25

# asym\_sam4\_correction\_mean vs Slug



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}: 24.4/16$

Left Out:  $-3744.845 \pm 810.117$   $\chi^2/\text{NDF}: 17.3/8$

Right Out:  $-1840.596 \pm 924.746$   $\chi^2/\text{NDF}: 11.7/18$

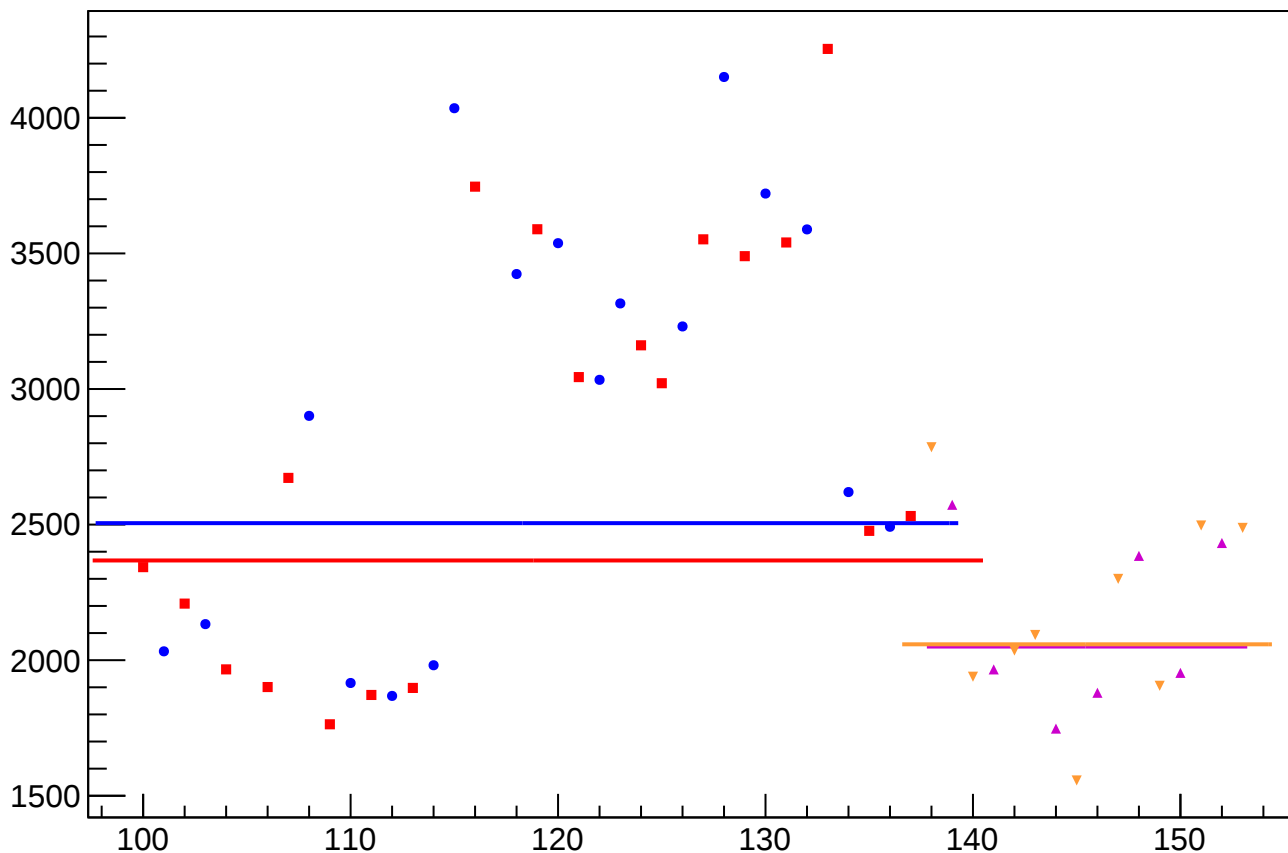
Left In:  $-1630.408 \pm 861.335$   $\chi^2/\text{NDF}: 3.3/6$

+ sign  $-2403.837 \pm 630.628$   $\chi^2/\text{NDF}: 48.7/25$

All:  $-2065.758 \pm 445.799$   $\chi^2/\text{NDF}: 64.3/51$

- sign  $-1728.049 \pm 630.282$   $\chi^2/\text{NDF}: 15.0/25$

# asym\_sam4\_correction\_rms vs Slug



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2058.540+/-0.573  $\chi^2/\text{NDF}$ : 388268.0/8

Right Out: 2367.730+/-0.654  $\chi^2/\text{NDF}$ : 1030895.6/18

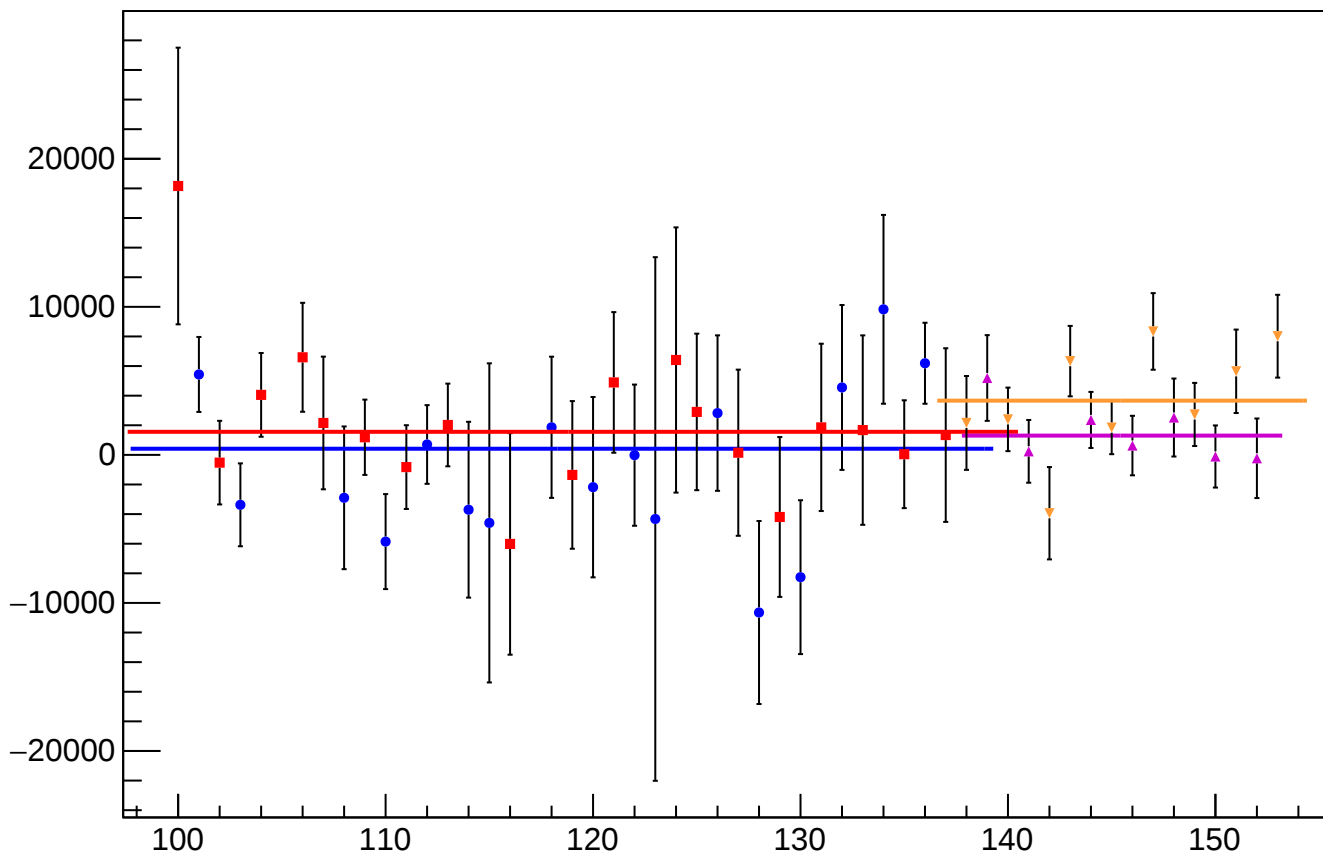
Left In: 2050.283+/-0.609  $\chi^2/\text{NDF}$ : 208468.7/6

+ sign 2234.589+/-0.446  $\chi^2/\text{NDF}$ : 1492102.8/25

All: 2216.159+/-0.315  $\chi^2/\text{NDF}$ : 2861079.7/51

- sign 2197.750+/-0.446  $\chi^2/\text{NDF}$ : 1365562.7/25

# asym\_sam4\_mean vs Slug



Right In: 415.549+/-994.913  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: 3663.431+/-808.585  $\chi^2/\text{NDF}$ : 15.2/8

Right Out: 1558.787+/-924.438  $\chi^2/\text{NDF}$ : 10.7/18

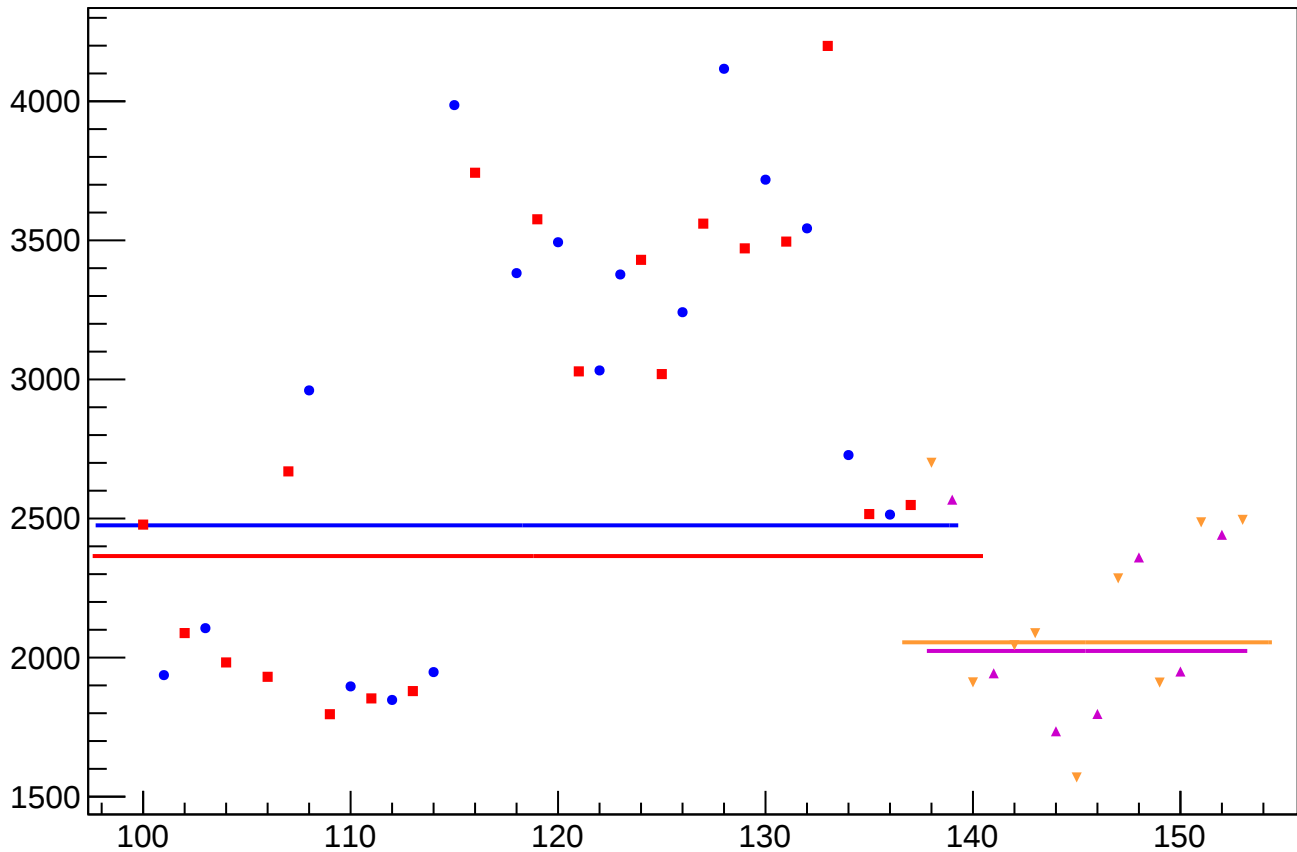
Left In: 1302.056+/-851.818  $\chi^2/\text{NDF}$ : 3.5/6

+ sign 2371.500+/-627.487  $\chi^2/\text{NDF}$ : 46.1/25

All: 1894.918+/-443.326  $\chi^2/\text{NDF}$ : 61.5/51

- sign 1419.943+/-626.428  $\chi^2/\text{NDF}$ : 14.2/25

# asym\_sam4\_rms vs Slug



Right In: 2475.435+/-0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 2054.915+/-0.572  $\chi^2/\text{NDF}$ :360179.2/8

Right Out: 2365.025+/-0.654  $\chi^2/\text{NDF}$ : 1027171.5/18

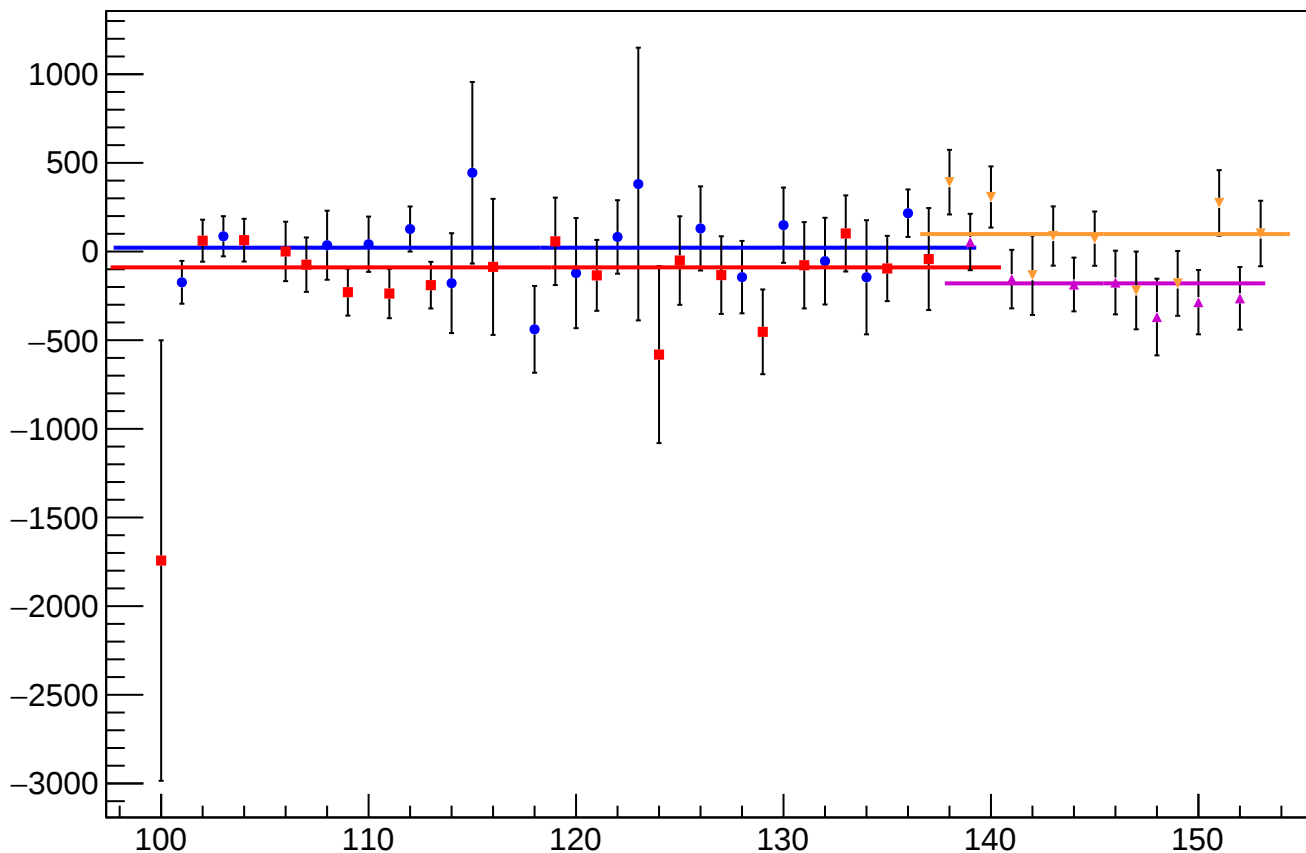
Left In: 2023.850+/-0.602  $\chi^2/\text{NDF}$ :228778.5/6

+ sign 2222.188+/-0.444  $\chi^2/\text{NDF}$ : 1488426.9/25

All: 2201.315+/-0.313  $\chi^2/\text{NDF}$ : 2896120.7/51

- sign 2180.512+/-0.443  $\chi^2/\text{NDF}$ : 1403275.3/25

# dit\_asym\_sam5\_mean vs Slug



Right In: 21.649 $\pm$ 45.157  $\chi^2$ /NDF: 12.6/16

Left Out: 98.574 $\pm$ 60.718  $\chi^2$ /NDF:10.5/8

Right Out: -89.313 $\pm$ 41.803  $\chi^2$ /NDF: 12.7/18

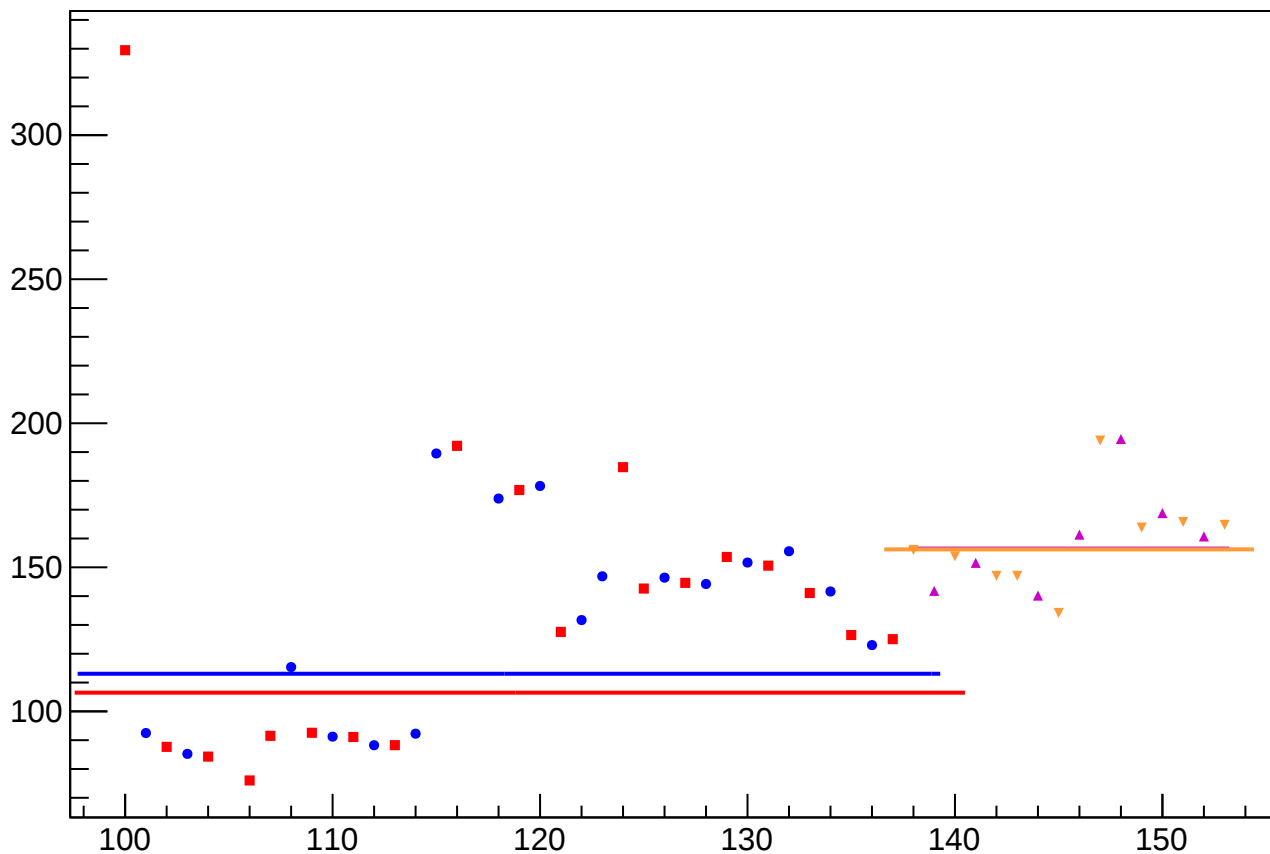
Left In: -179.532 $\pm$ 65.292  $\chi^2$ /NDF:3.5/6

+ sign 49.044 $\pm$ 36.234  $\chi^2$ /NDF: 24.1/25

All: -35.620 $\pm$ 25.250  $\chi^2$ /NDF: 52.3/51

- sign -115.543 $\pm$ 35.205  $\chi^2$ /NDF: 17.6/25

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.059+/-0.032  $\chi^2/\text{NDF}$ : 820795.9/16

Left Out: 156.228+/-0.043  $\chi^2/\text{NDF}$ :123544.6/8

Right Out: 106.493+/-0.030  $\chi^2/\text{NDF}$ : 1016224.6/18

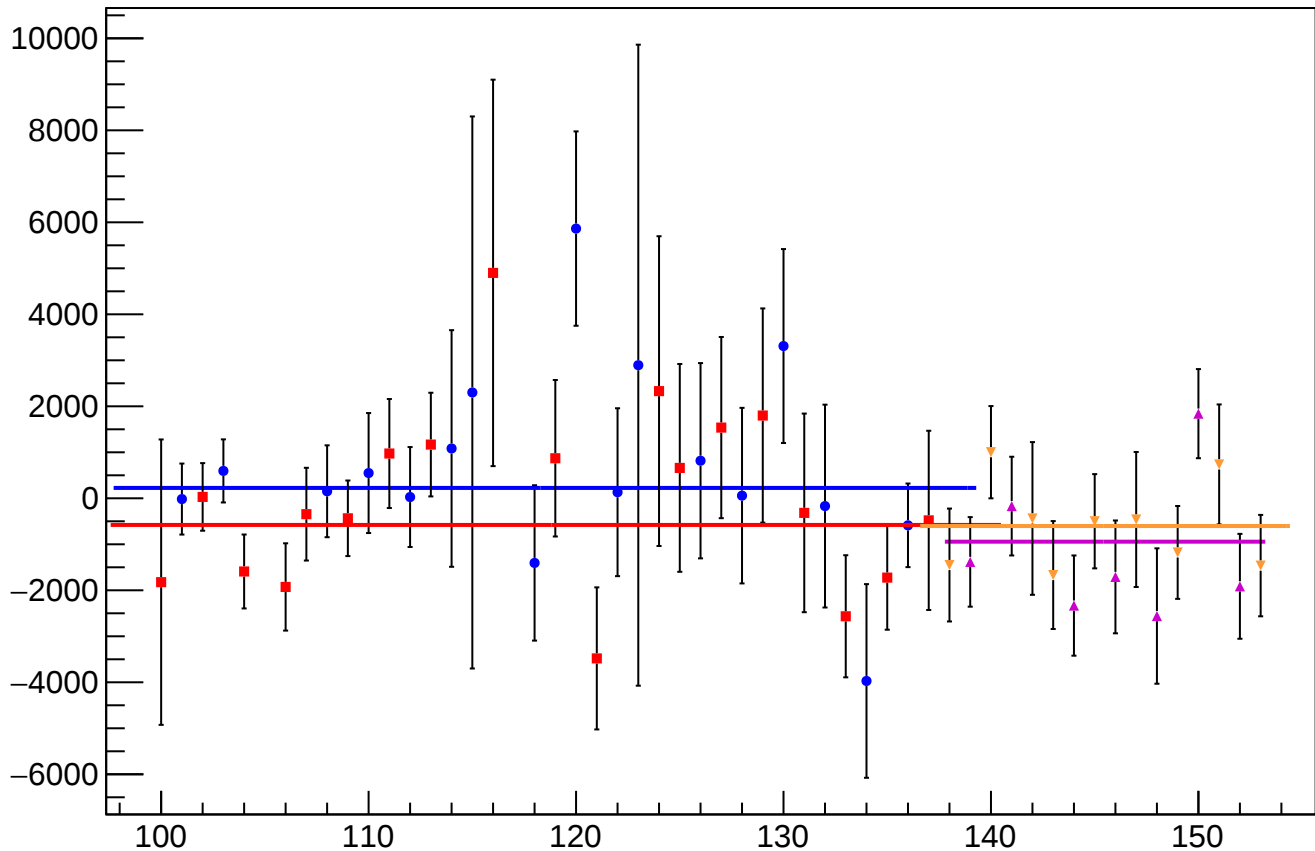
Left In: 156.499+/-0.046  $\chi^2/\text{NDF}$ :115685.4/6

+ sign 128.433+/-0.026  $\chi^2/\text{NDF}$ : 1595287.3/25

All: 124.625+/-0.018  $\chi^2/\text{NDF}$ : 3602196.4/51

- sign 121.032+/-0.025  $\chi^2/\text{NDF}$ : 1963986.6/25

# asym\_sam5\_correction\_mean vs Slug



Right In: 225.635 $\pm$ 321.412  $\chi^2$ /NDF: 16.0/16

Left Out: -602.860 $\pm$ 390.515  $\chi^2$ /NDF: 5.9/8

Right Out: -579.018 $\pm$ 289.235  $\chi^2$ /NDF: 21.1/18

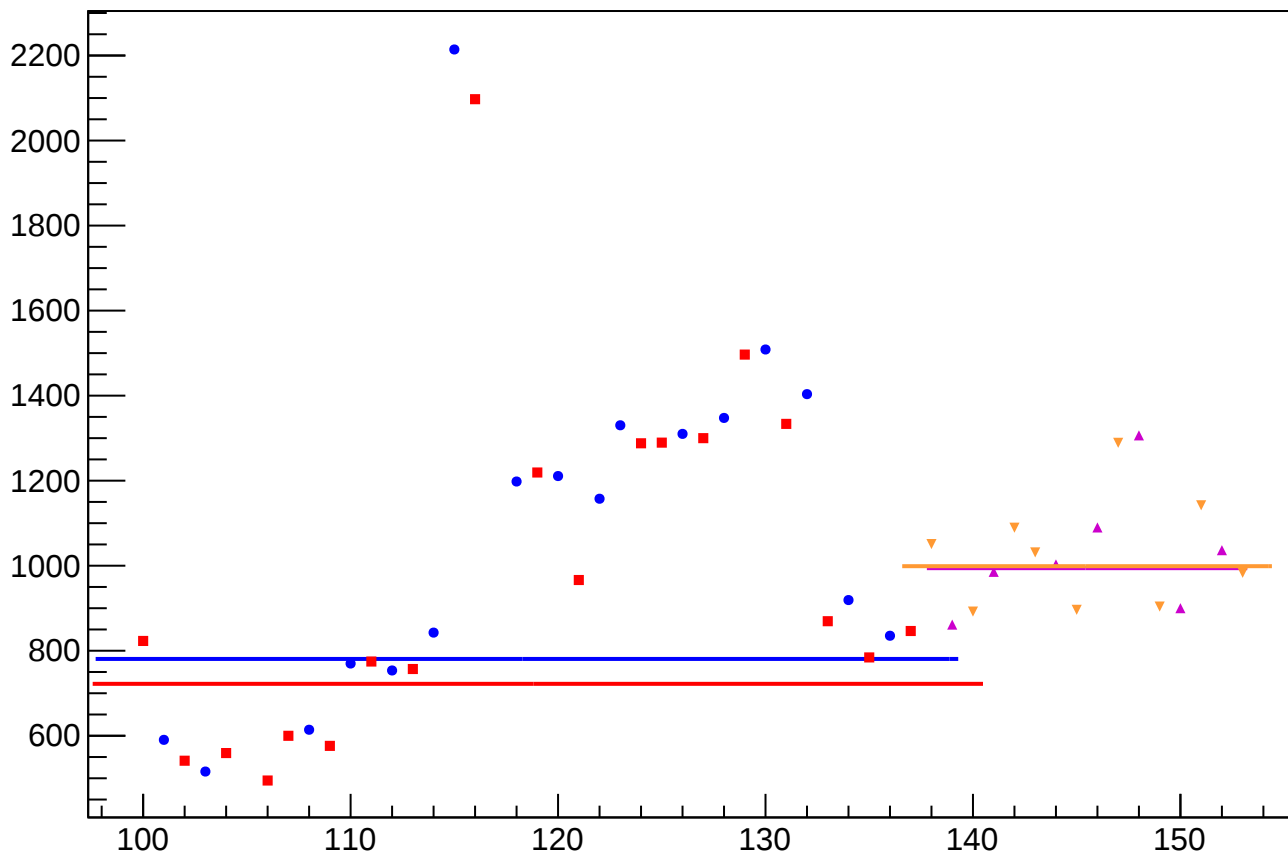
Left In: -943.024 $\pm$ 417.860  $\chi^2$ /NDF: 12.9/6

+ sign -108.945 $\pm$ 248.166  $\chi^2$ /NDF: 24.5/25

All: -415.447 $\pm$ 171.706  $\chi^2$ /NDF: 62.0/51

- sign -696.927 $\pm$ 237.821  $\chi^2$ /NDF: 34.6/25

# asym\_sam5\_correction\_rms vs Slug



Right In:  $780.700 \pm 0.227$   $\chi^2/\text{NDF}$ : 1609510.2/16

Left Out:  $998.852 \pm 0.276$   $\chi^2/\text{NDF}$ : 174237.4/8

Right Out:  $722.148 \pm 0.205$   $\chi^2/\text{NDF}$ : 1628760.4/18

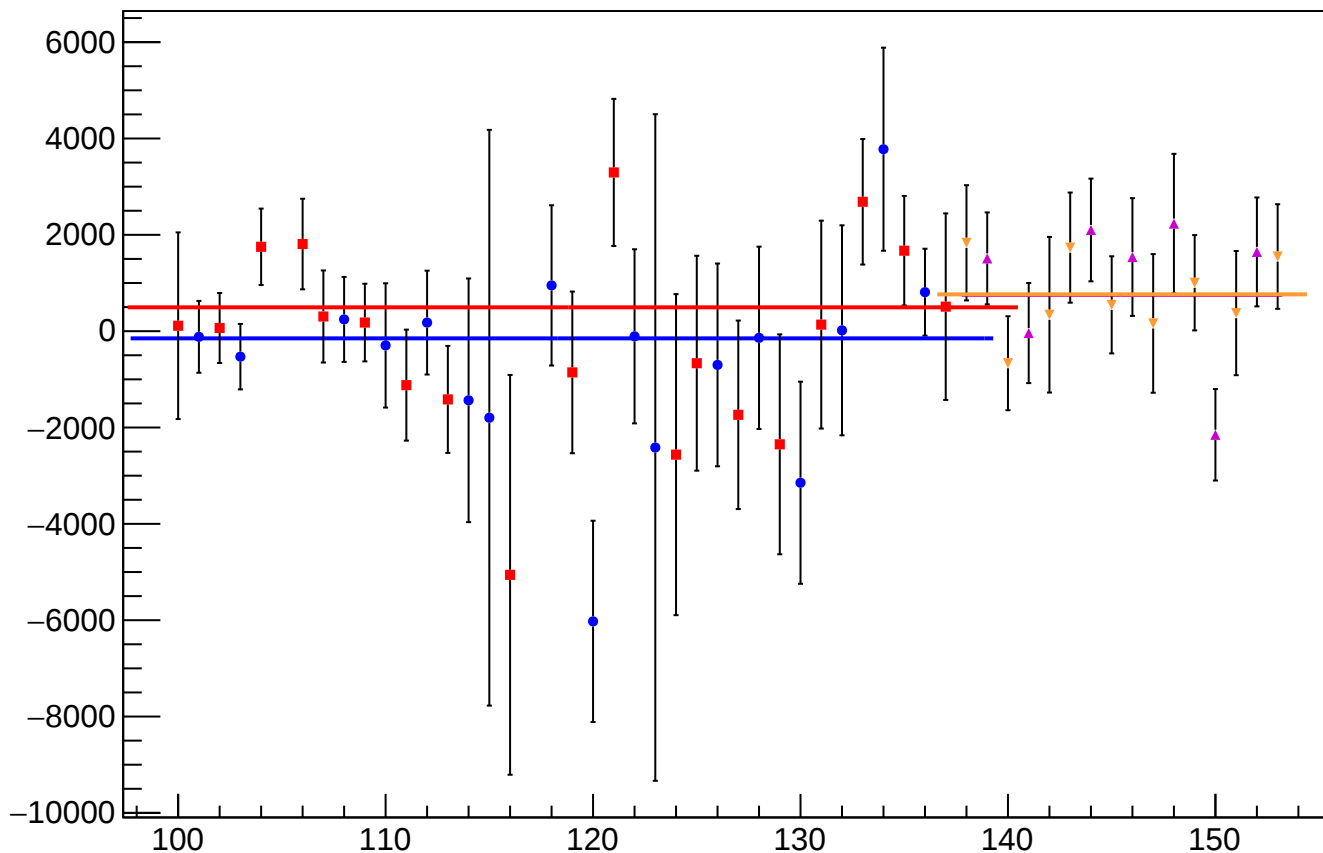
Left In:  $994.216 \pm 0.295$   $\chi^2/\text{NDF}$ : 161336.7/6

+ sign  $868.799 \pm 0.175$   $\chi^2/\text{NDF}$ : 2155826.5/25

All:  $838.292 \pm 0.121$   $\chi^2/\text{NDF}$ : 4577120.0/51

- sign  $810.276 \pm 0.168$   $\chi^2/\text{NDF}$ : 2363315.6/25

# asym\_sam5\_mean vs Slug



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $764.376 \pm 382.458$   $\chi^2/\text{NDF}$ : 4.6/8

Right Out:  $494.856 \pm 282.721$   $\chi^2/\text{NDF}$ : 23.7/18

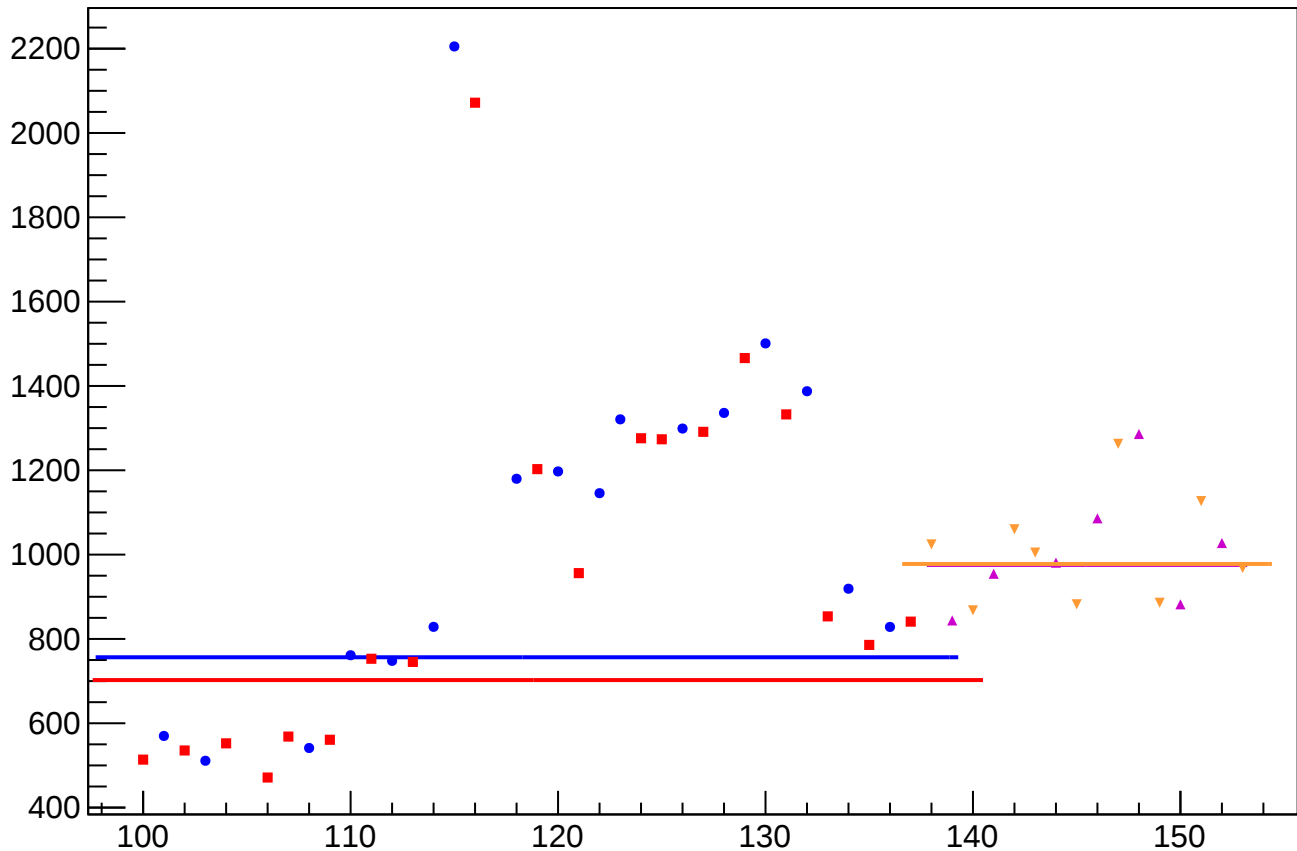
Left In:  $751.919 \pm 410.272$   $\chi^2/\text{NDF}$ : 14.2/6

+ sign  $217.218 \pm 242.207$   $\chi^2/\text{NDF}$ : 24.2/25

All:  $404.555 \pm 167.841$   $\chi^2/\text{NDF}$ : 63.5/51

- sign  $577.623 \pm 232.799$   $\chi^2/\text{NDF}$ : 38.2/25

# asym\_sam5\_rms vs Slug



Right In: 756.539+/-0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 977.836+/-0.270  $\chi^2/\text{NDF}$ : 175355.4/8

+ sign 845.291+/-0.171  $\chi^2/\text{NDF}$ : 2290047.6/25

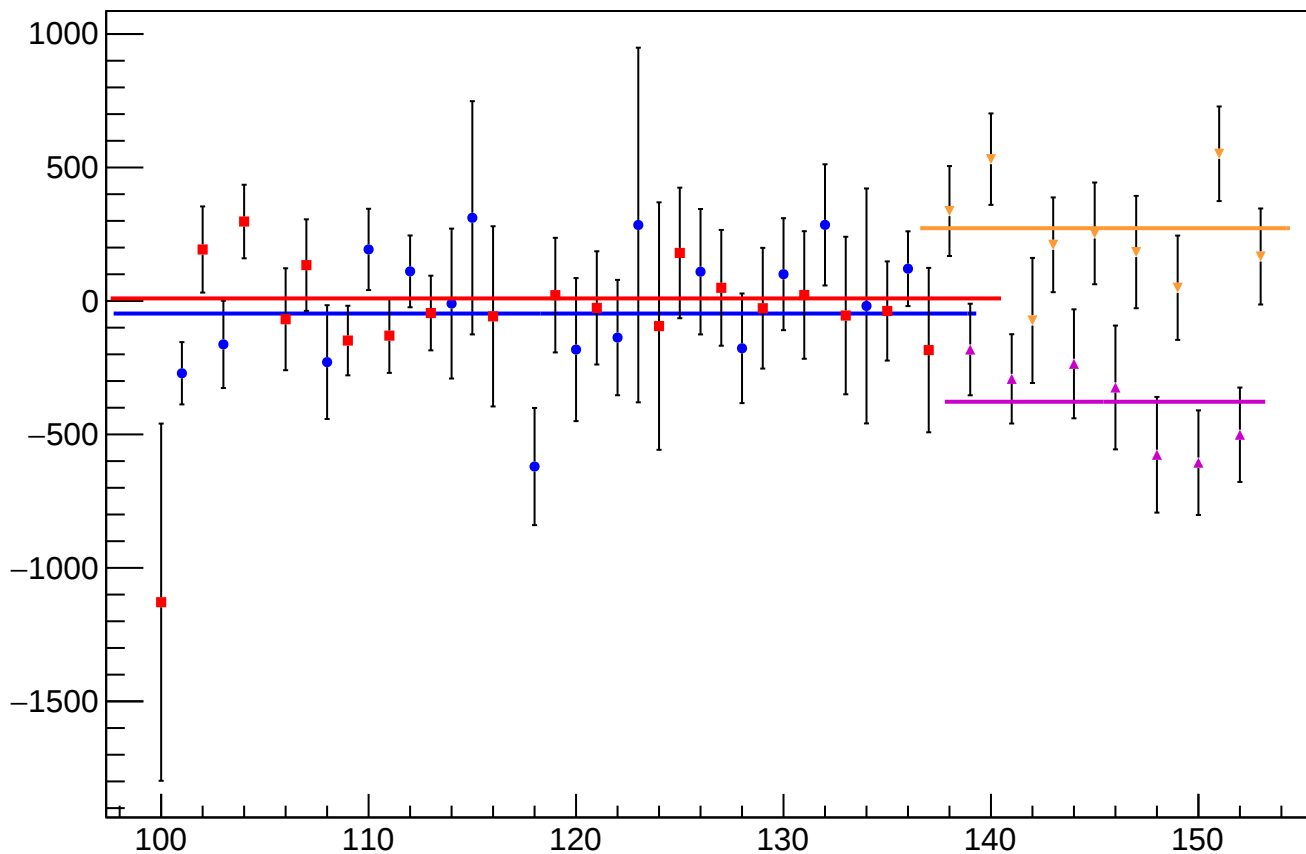
Right Out: 702.444+/-0.200  $\chi^2/\text{NDF}$ : 1689393.5/18

All: 816.738+/-0.119  $\chi^2/\text{NDF}$ : 4804304.5/51

- sign 790.361+/-0.165  $\chi^2/\text{NDF}$ : 2460785.9/25

Left In: 975.501+/-0.290  $\chi^2/\text{NDF}$ : 170718.7/6

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $272.642 \pm 62.220$   $\chi^2/\text{NDF}: 9.0/8$

Right Out:  $9.507 \pm 44.749$   $\chi^2/\text{NDF}: 13.0/18$

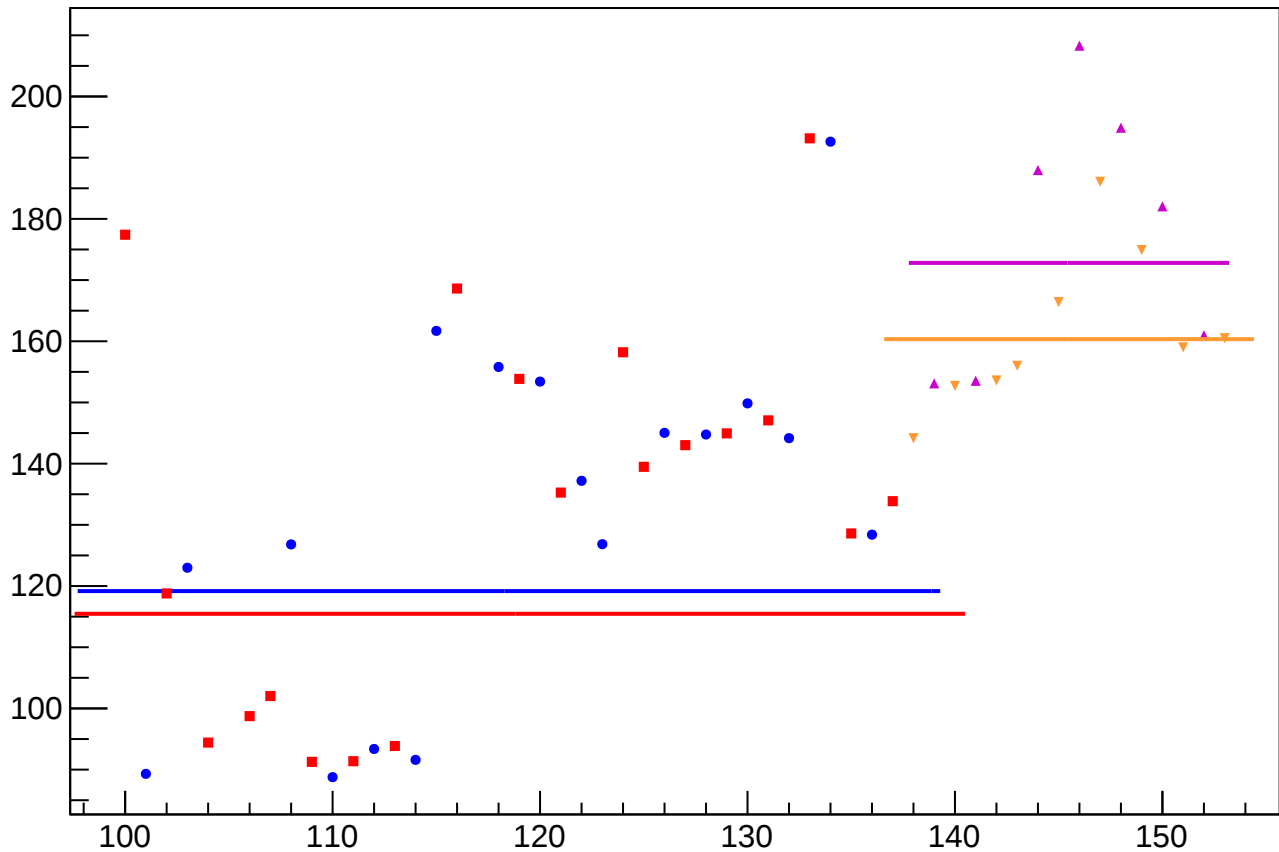
Left In:  $-377.630 \pm 72.236$   $\chi^2/\text{NDF}: 4.8/6$

+ sign  $69.871 \pm 37.639$   $\chi^2/\text{NDF}: 47.7/25$

All:  $-13.103 \pm 26.756$   $\chi^2/\text{NDF}: 96.1/51$

- sign  $-97.859 \pm 38.041$   $\chi^2/\text{NDF}: 38.6/25$

# dit\_asym\_sam6\_rms vs Slug



Right In: 119.175 $\pm$ 0.033  $\chi^2$ /NDF: 615304.2/16

Left Out: 160.347 $\pm$ 0.044  $\chi^2$ /NDF: 68406.0/8

Right Out: 115.466 $\pm$ 0.032  $\chi^2$ /NDF: 692783.7/18

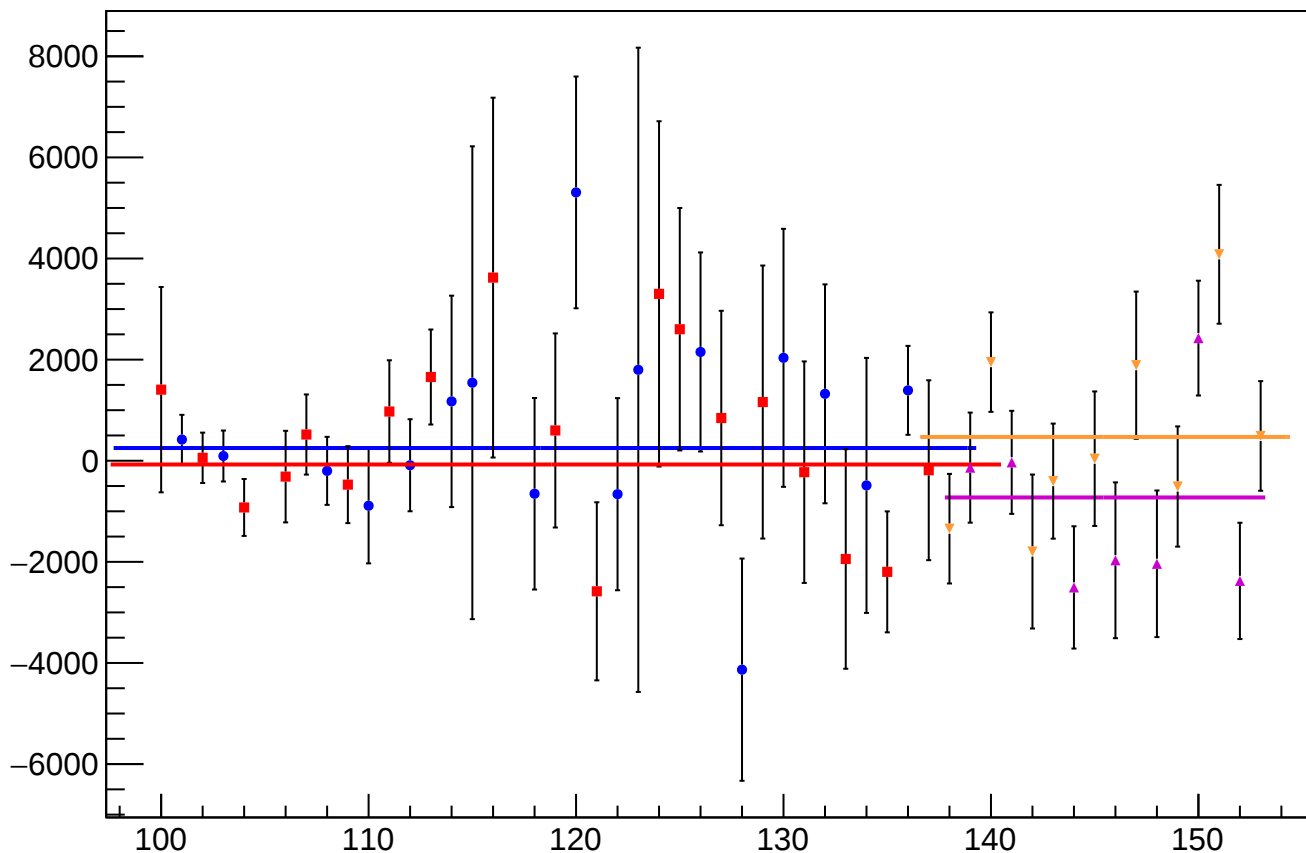
Left In: 172.806 $\pm$ 0.051  $\chi^2$ /NDF: 144952.4/6

+ sign 134.242 $\pm$ 0.027  $\chi^2$ /NDF: 1238974.9/25

All: 132.820 $\pm$ 0.019  $\chi^2$ /NDF: 2993180.7/51

- sign 131.368 $\pm$ 0.027  $\chi^2$ /NDF: 1748438.5/25

# asym\_sam6\_correction\_mean vs Slug



Right In: 251.733 $\pm$ 252.819  $\chi^2$ /NDF: 14.9/16

Left Out: 470.463 $\pm$ 401.203  $\chi^2$ /NDF: 16.5/8

Right Out: -74.126 $\pm$ 243.967  $\chi^2$ /NDF: 18.0/18

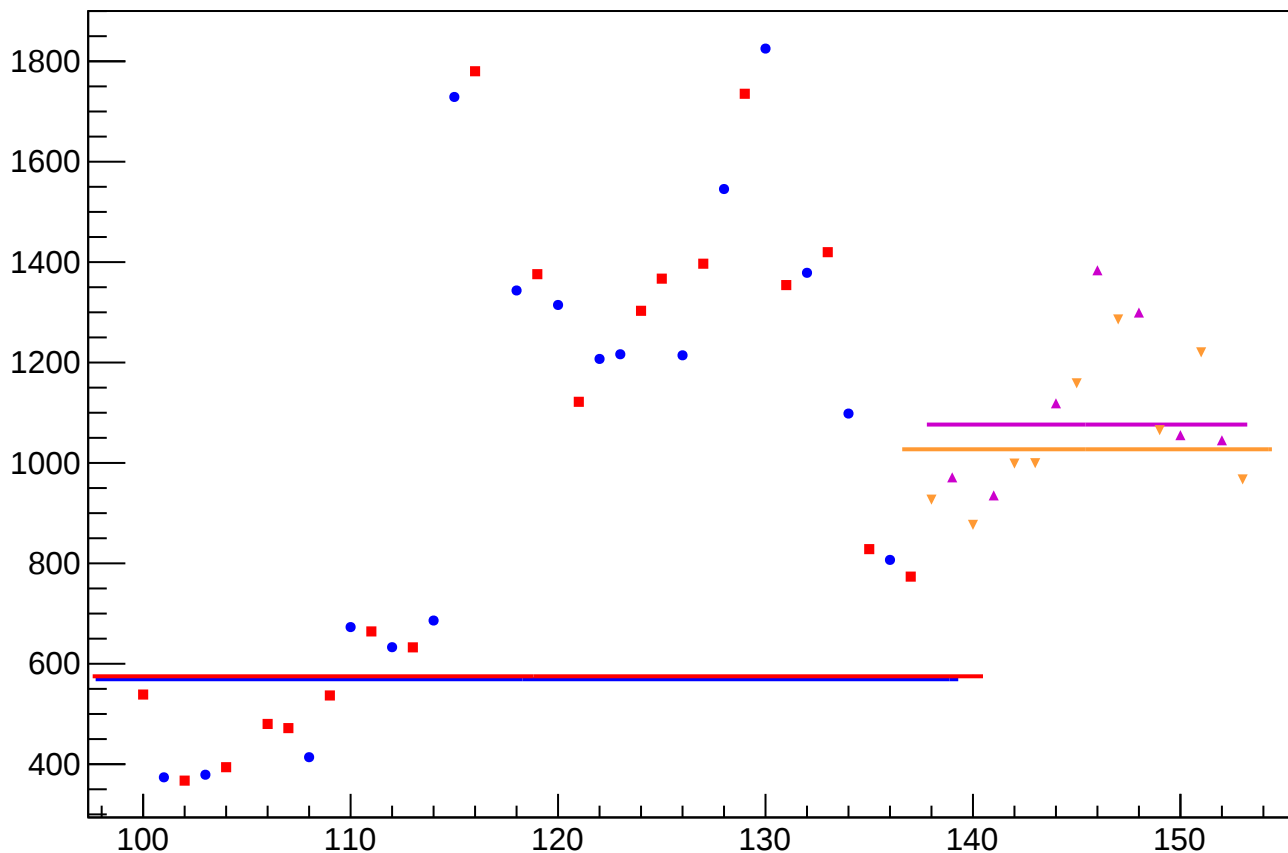
Left In: -726.310 $\pm$ 450.925  $\chi^2$ /NDF: 14.2/6

+ sign 313.902 $\pm$ 213.894  $\chi^2$ /NDF: 31.6/25

All: 46.900 $\pm$ 151.486  $\chi^2$ /NDF: 68.5/51

- sign -221.805 $\pm$ 214.575  $\chi^2$ /NDF: 33.8/25

# asym\_sam6\_correction\_rms vs Slug



Right In: 569.200+/-0.179     $\chi^2/\text{NDF}$ : 3267047.1/16

Left Out: 1027.194+/-0.284     $\chi^2/\text{NDF}$ :196141.9/8

Right Out: 575.051+/-0.173     $\chi^2/\text{NDF}$ : 3058923.3/18

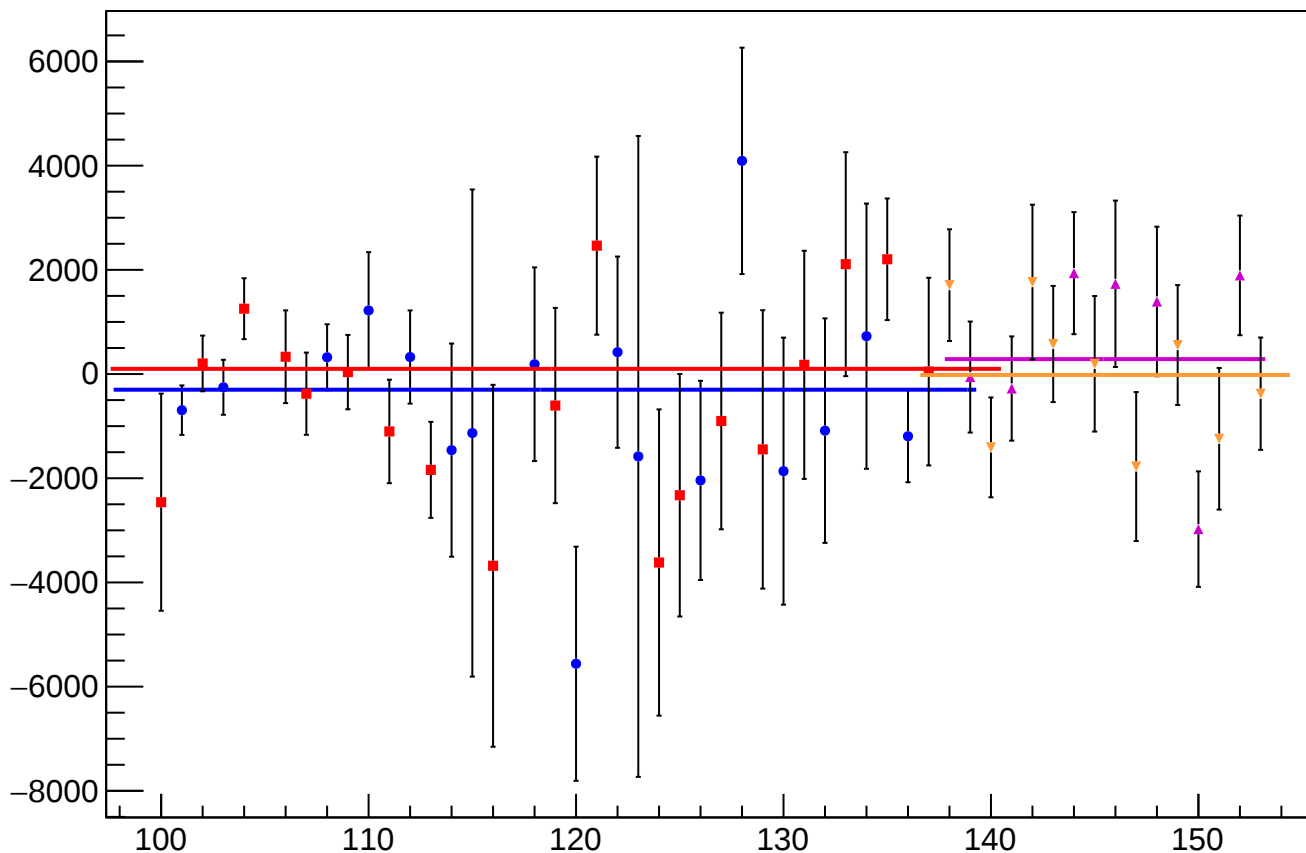
Left In: 1076.443+/-0.319     $\chi^2/\text{NDF}$ :188497.8/6

+ sign 699.374+/-0.151     $\chi^2/\text{NDF}$ : 5328693.7/25

All: 693.997+/-0.107     $\chi^2/\text{NDF}$ : 10491456.3/51

- sign 688.586+/-0.152     $\chi^2/\text{NDF}$ : 5160226.5/25

# asym\_sam6\_mean vs Slug



Right In: -300.652+/-250.302  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -17.743+/-393.657  $\chi^2/\text{NDF}$ : 9.1/8

Right Out: 99.947+/-245.961  $\chi^2/\text{NDF}$ : 22.4/18

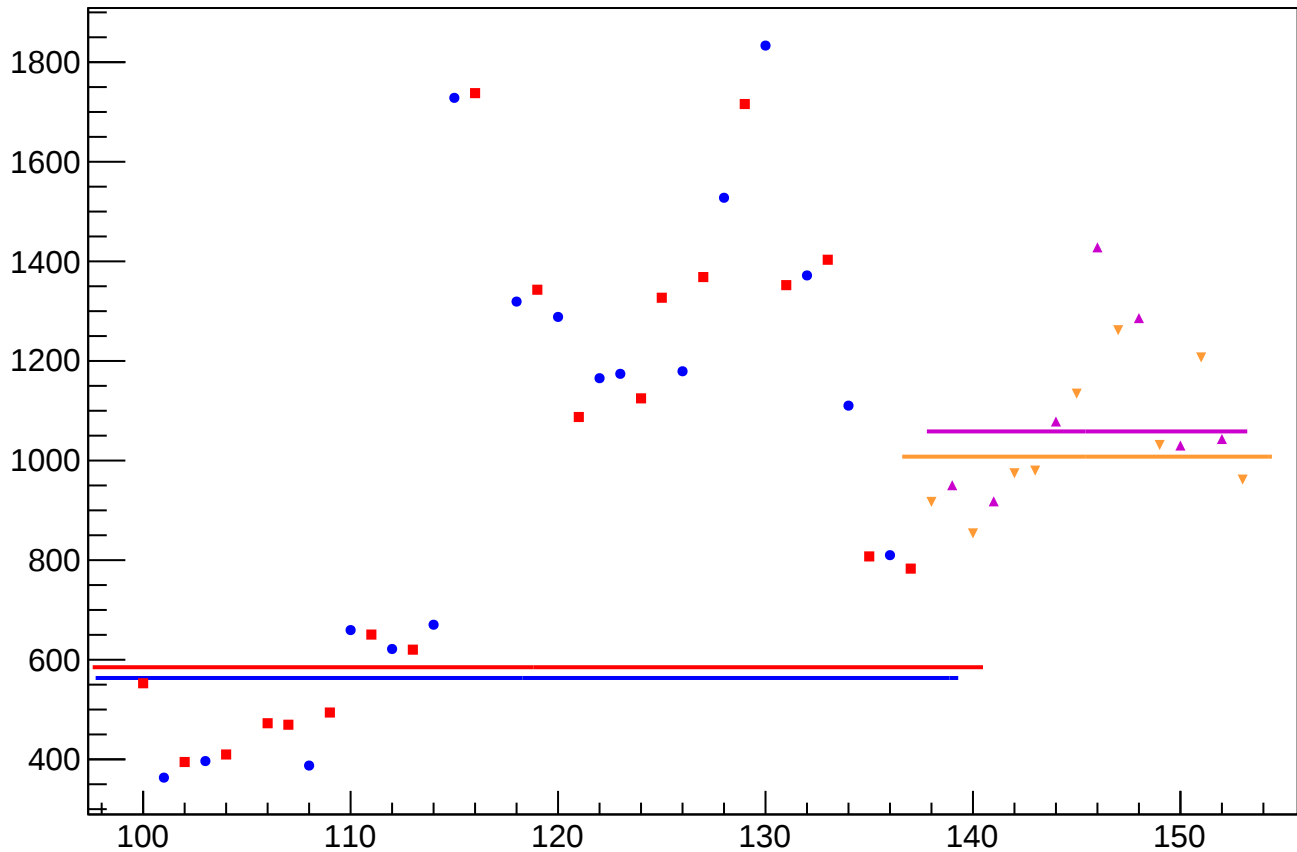
Left In: 286.851+/-444.544  $\chi^2/\text{NDF}$ : 14.4/6

+ sign -219.204+/-211.221  $\chi^2/\text{NDF}$ : 26.2/25

All: -41.125+/-150.748  $\chi^2/\text{NDF}$ : 64.6/51

- sign 143.753+/-215.215  $\chi^2/\text{NDF}$ : 37.0/25

# asym\_sam6\_rms vs Slug



Right In: 563.393 $\pm$ 0.177  $\chi^2$ /NDF: 3259045.7/16

Left Out: 1007.853 $\pm$ 0.278  $\chi^2$ /NDF:197838.8/8

Right Out: 584.984 $\pm$ 0.174  $\chi^2$ /NDF: 2818628.0/18

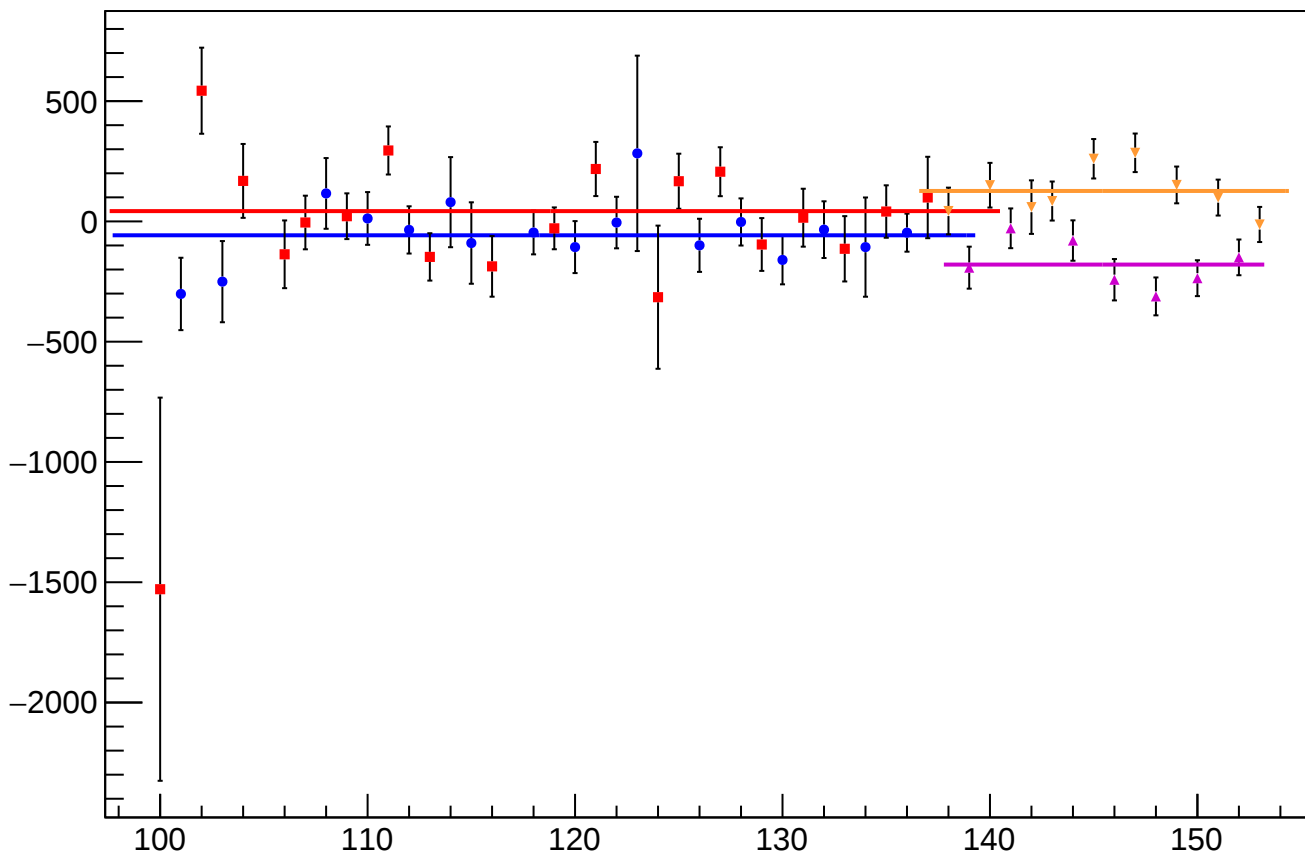
Left In: 1058.492 $\pm$ 0.314  $\chi^2$ /NDF:219629.6/6

+ sign 691.352 $\pm$ 0.149  $\chi^2$ /NDF: 5272405.1/25

All: 693.614 $\pm$ 0.107  $\chi^2$ /NDF: 10048411.8/5

- sign 695.963 $\pm$ 0.152  $\chi^2$ /NDF: 4775538.9/25

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}: 9.1/16$

Left Out:  $126.549 \pm 27.768$   $\chi^2/\text{NDF}: 11.9/8$

Right Out:  $42.790 \pm 27.694$   $\chi^2/\text{NDF}: 39.1/18$

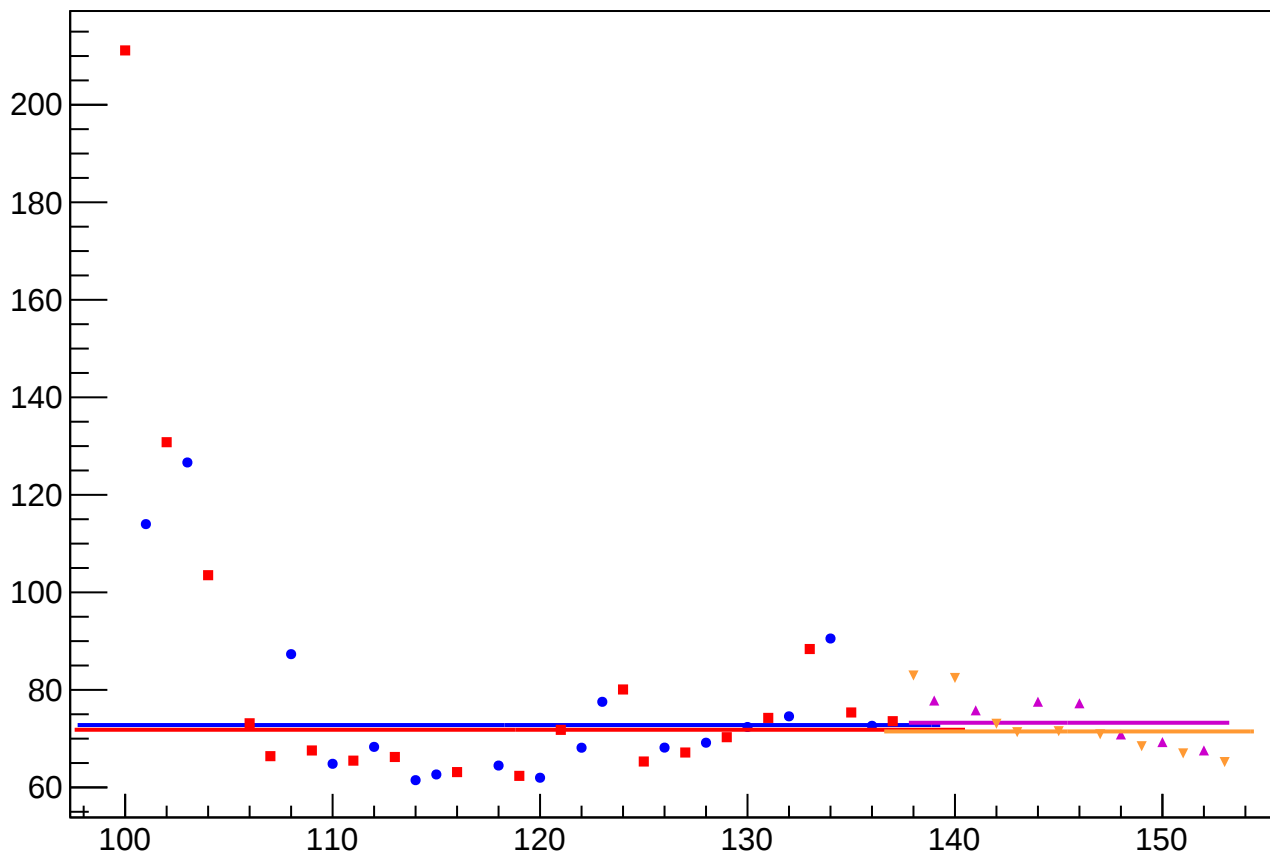
Left In:  $-179.457 \pm 30.468$   $\chi^2/\text{NDF}: 8.9/6$

+ sign  $37.439 \pm 19.954$   $\chi^2/\text{NDF}: 42.3/25$

All:  $-8.891 \pm 14.297$   $\chi^2/\text{NDF}: 130.5/51$

- sign  $-57.760 \pm 20.493$   $\chi^2/\text{NDF}: 77.1/25$

# dit\_asym\_sam7\_rms vs Slug



Right In: 72.790 $\pm$ 0.020  $\chi^2$ /NDF: 464772.9/16

Left Out: 71.478 $\pm$ 0.020  $\chi^2$ /NDF: 81526.2/8

Right Out: 71.824 $\pm$ 0.020  $\chi^2$ /NDF: 465654.1/18

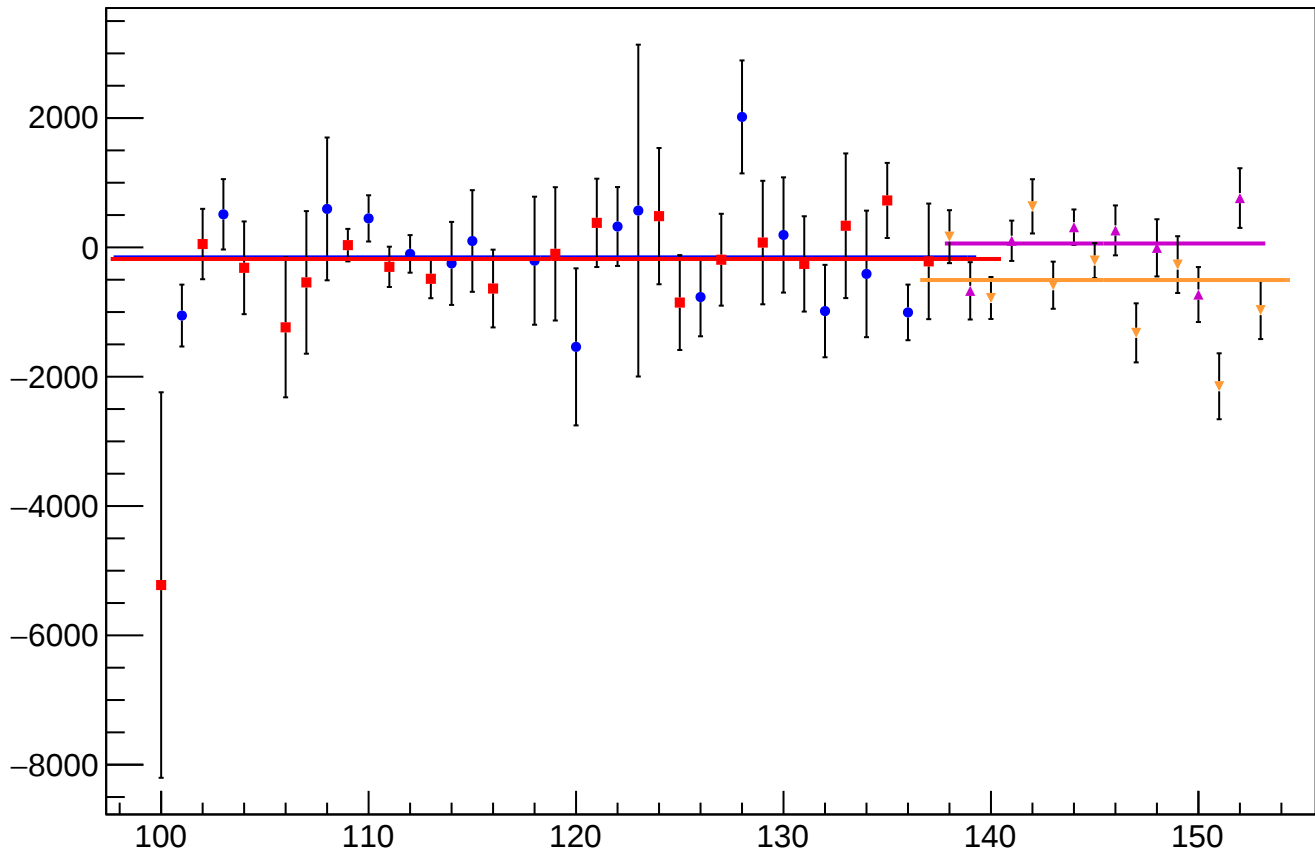
Left In: 73.259 $\pm$ 0.022  $\chi^2$ /NDF: 36130.4/6

+ sign 72.113 $\pm$ 0.014  $\chi^2$ /NDF: 548456.2/25

All: 72.288 $\pm$ 0.010  $\chi^2$ /NDF: 1052986.9/51

- sign 72.473 $\pm$ 0.014  $\chi^2$ /NDF: 504213.3/25

# asym\_sam7\_correction\_mean vs Slug



Right In: -154.404+/-140.700  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -504.583+/-127.894  $\chi^2/\text{NDF}$ : 27.0/8

Right Out: -179.068+/-126.107  $\chi^2/\text{NDF}$ : 11.3/18

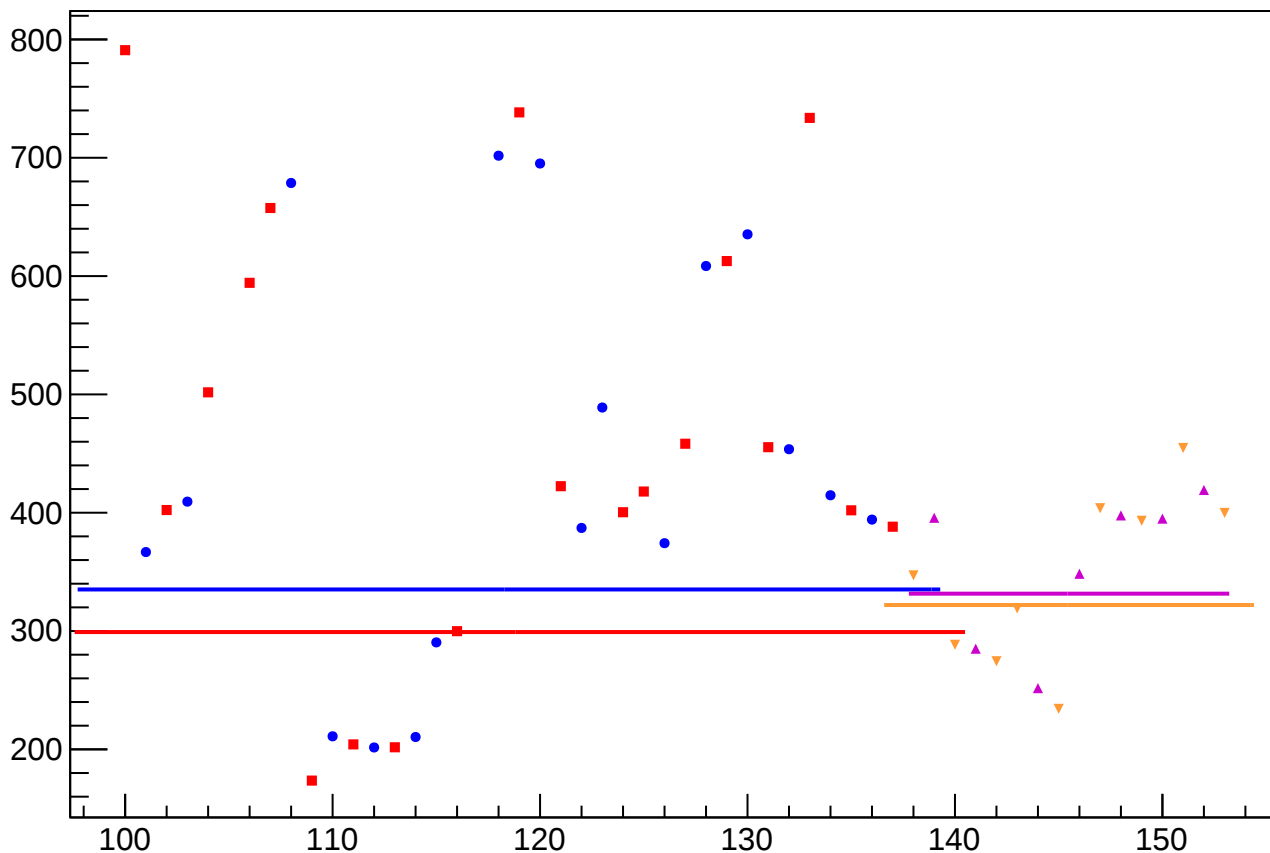
Left In: 60.252+/-140.405  $\chi^2/\text{NDF}$ : 9.7/6

+ sign -346.151+/-94.639  $\chi^2/\text{NDF}$ : 53.6/25

All: -207.991+/-66.629  $\chi^2/\text{NDF}$ : 80.4/51

- sign -72.210+/-93.820  $\chi^2/\text{NDF}$ : 22.5/25

# asym\_sam7\_correction\_rms vs Slug



Right In: 335.134+/-0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 321.988+/-0.090  $\chi^2/\text{NDF}$ : 578024.8/8

Right Out: 299.135+/-0.089  $\chi^2/\text{NDF}$ : 2831089.8/18

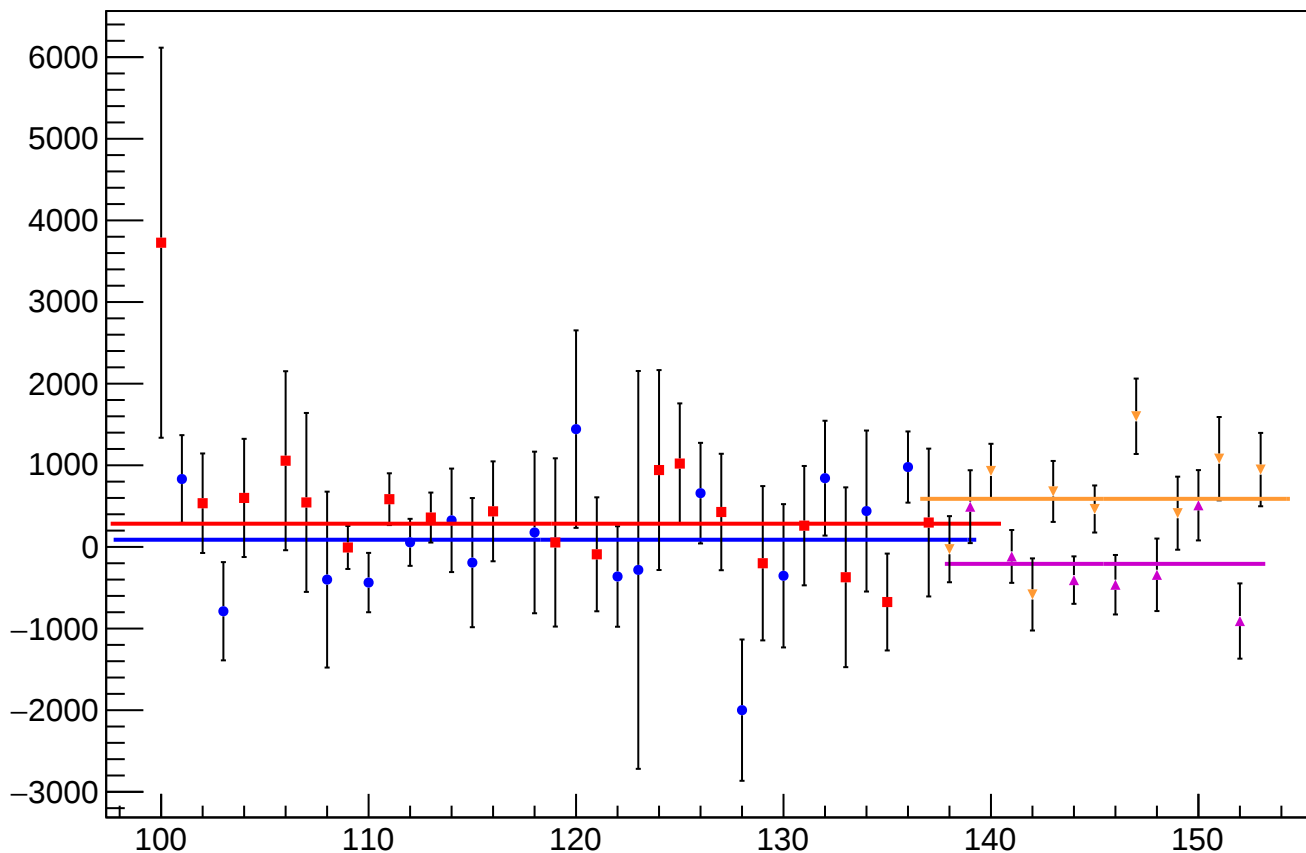
Left In: 331.594+/-0.099  $\chi^2/\text{NDF}$ : 420992.6/6

+ sign 327.935+/-0.067  $\chi^2/\text{NDF}$ : 2581631.3/25

All: 320.720+/-0.047  $\chi^2/\text{NDF}$ : 5915929.1/51

- sign 313.628+/-0.066  $\chi^2/\text{NDF}$ : 3311244.6/25

# asym\_sam7\_mean vs Slug



Right In:  $88.115 \pm 143.018$   $\chi^2/\text{NDF}$ : 20.8/16

Left Out:  $589.120 \pm 131.395$   $\chi^2/\text{NDF}$ : 17.2/8

Right Out:  $284.510 \pm 129.675$   $\chi^2/\text{NDF}$ : 10.1/18

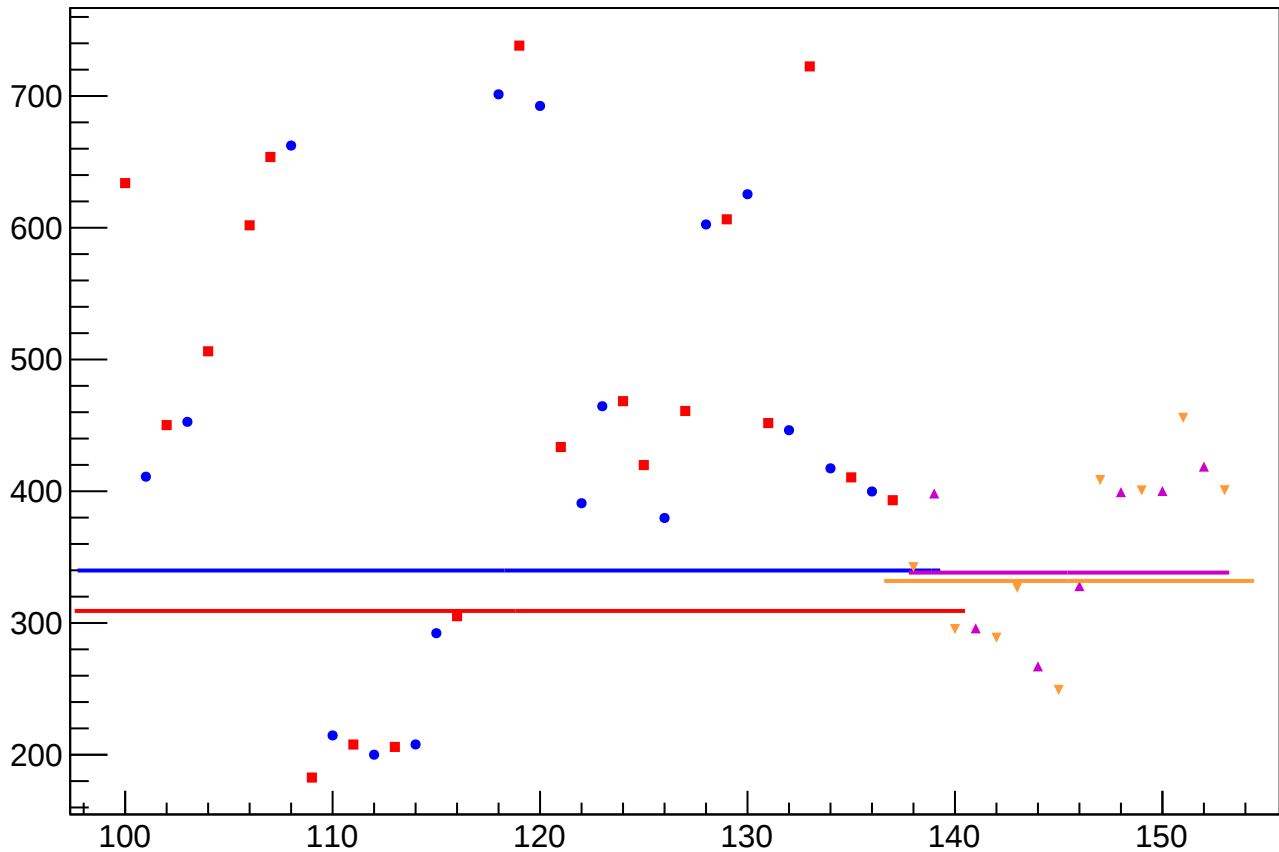
Left In:  $-207.429 \pm 142.714$   $\chi^2/\text{NDF}$ : 8.7/6

+ sign  $359.800 \pm 96.759$   $\chi^2/\text{NDF}$ : 44.6/25

All:  $209.704 \pm 68.139$   $\chi^2/\text{NDF}$ : 74.7/51

- sign  $62.035 \pm 95.973$   $\chi^2/\text{NDF}$ : 25.3/25

# asym\_sam7\_rms vs Slug



Right In: 339.850 $\pm$ 0.101  $\chi^2$ /NDF: 2043522.4/16

Left Out: 331.924 $\pm$ 0.093  $\chi^2$ /NDF: 475998.4/8

Right Out: 309.158 $\pm$ 0.092  $\chi^2$ /NDF: 2735887.4/18

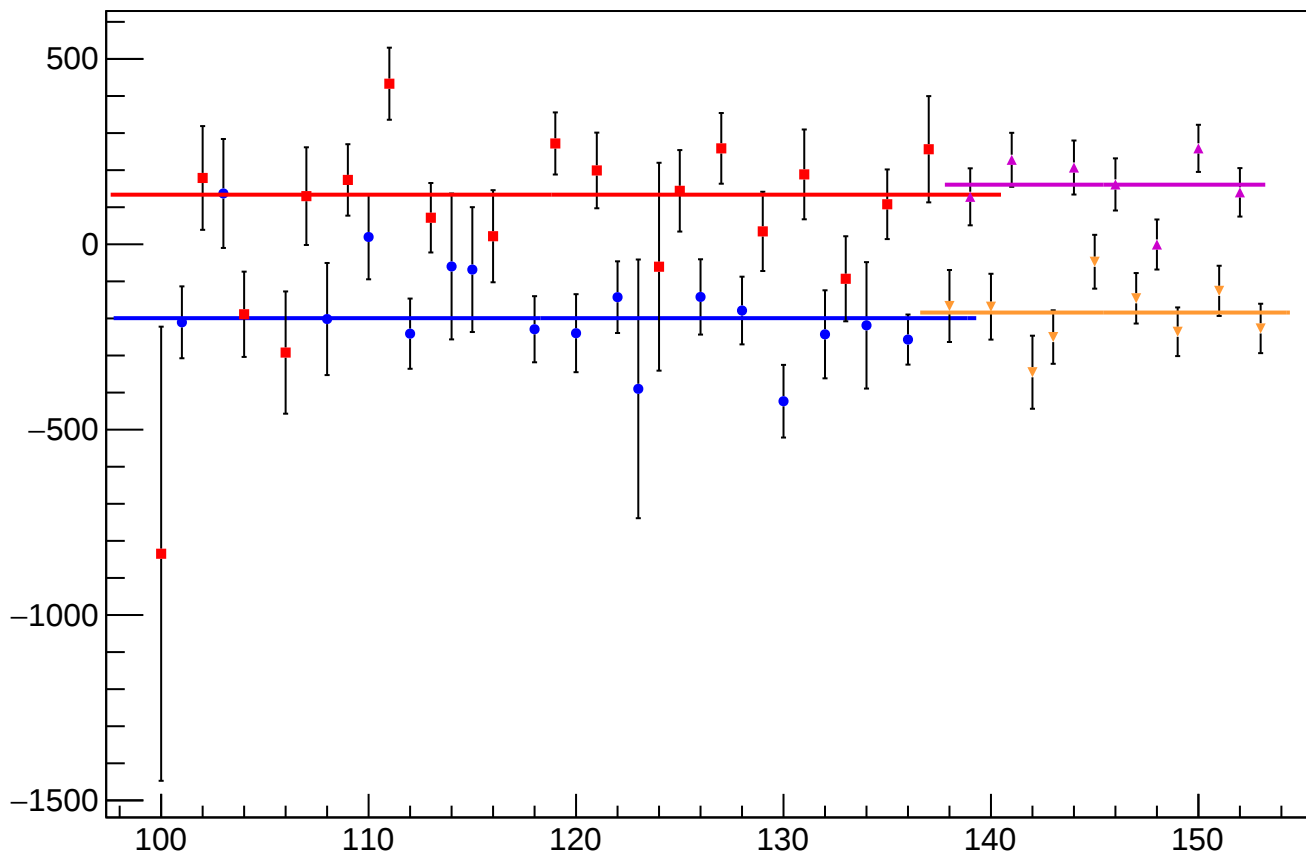
Left In: 338.264 $\pm$ 0.101  $\chi^2$ /NDF: 332002.7/6

+ sign 335.552 $\pm$ 0.068  $\chi^2$ /NDF: 2522851.8/25

All: 328.882 $\pm$ 0.048  $\chi^2$ /NDF: 5655157.4/51

- sign 322.321 $\pm$ 0.068  $\chi^2$ /NDF: 3113456.1/25

# dit\_asym\_sam8\_mean vs Slug



Right In:  $-199.252 \pm 26.515$   $\chi^2/\text{NDF}$ : 17.6/16

Left Out:  $-184.110 \pm 24.934$   $\chi^2/\text{NDF}$ : 9.2/8

Right Out:  $133.844 \pm 26.228$   $\chi^2/\text{NDF}$ : 39.2/18

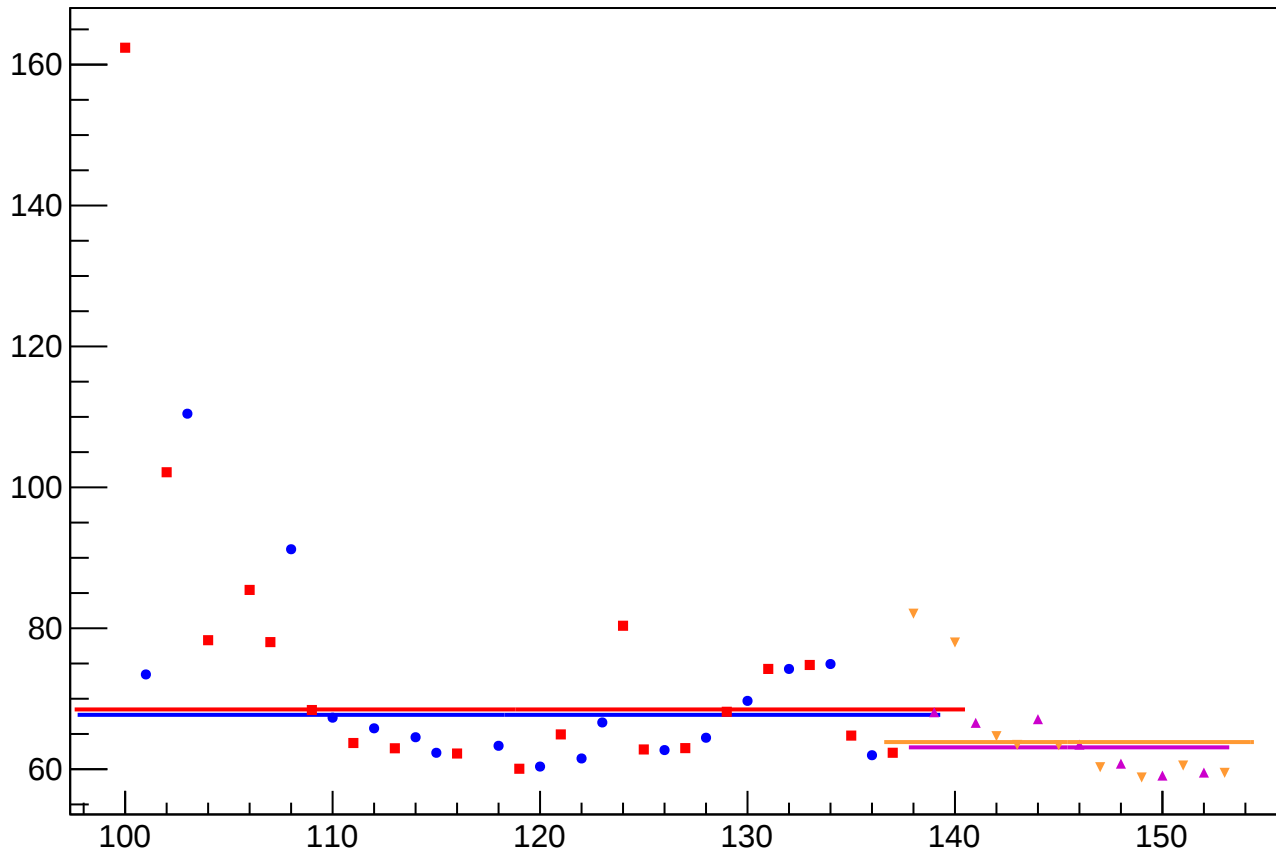
Left In:  $160.800 \pm 26.267$   $\chi^2/\text{NDF}$ : 9.6/6

+ sign  $-191.216 \pm 18.164$   $\chi^2/\text{NDF}$ : 27.0/25

All:  $-25.606 \pm 12.982$   $\chi^2/\text{NDF}$ : 246.3/51

- sign  $147.302 \pm 18.560$   $\chi^2/\text{NDF}$ : 49.3/25

# dit\_asym\_sam8\_rms vs Slug



Right In:  $67.715 \pm 0.019$   $\chi^2/\text{NDF}$ : 282892.5/16

Left Out:  $63.850 \pm 0.018$   $\chi^2/\text{NDF}$ : 151977.1/8

Right Out:  $68.481 \pm 0.019$   $\chi^2/\text{NDF}$ : 281423.4/18

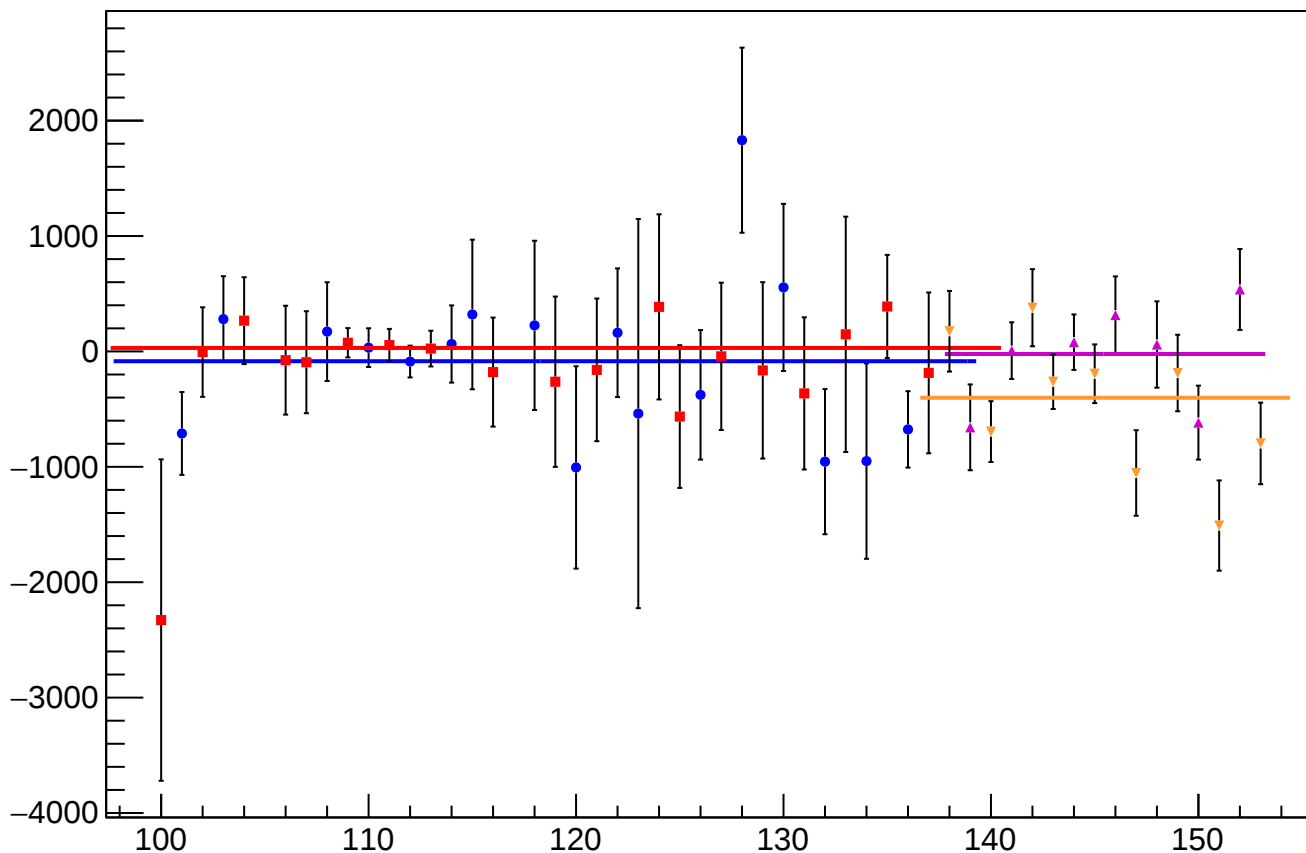
Left In:  $63.099 \pm 0.019$   $\chi^2/\text{NDF}$ : 35356.6/6

+ sign  $65.664 \pm 0.013$   $\chi^2/\text{NDF}$ : 457423.9/25

All:  $65.728 \pm 0.009$   $\chi^2/\text{NDF}$ : 816297.7/51

- sign  $65.794 \pm 0.013$   $\chi^2/\text{NDF}$ : 358823.9/25

# asym\_sam8\_correction\_mean vs Slug



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}: 19.9/16$

Left Out:  $-401.660 \pm 102.159$   $\chi^2/\text{NDF}: 23.2/8$

Right Out:  $30.219 \pm 69.663$   $\chi^2/\text{NDF}: 6.3/18$

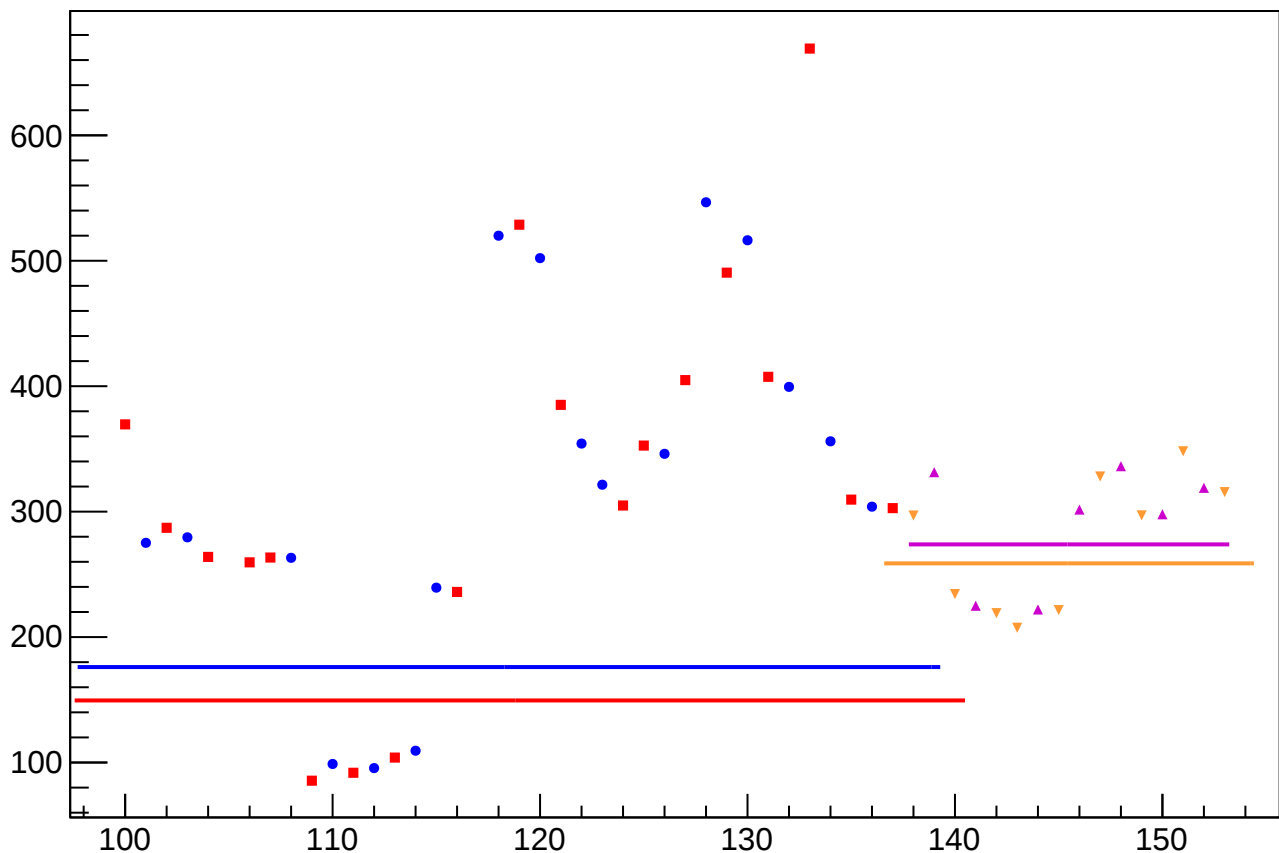
Left In:  $-22.266 \pm 115.452$   $\chi^2/\text{NDF}: 10.2/6$

+ sign  $-210.157 \pm 64.263$   $\chi^2/\text{NDF}: 48.9/25$

All:  $-88.550 \pm 43.717$   $\chi^2/\text{NDF}: 72.2/51$

- sign  $16.211 \pm 59.646$   $\chi^2/\text{NDF}: 16.6/25$

# asym\_sam8\_correction\_rms vs Slug



Right In: 176.096 $\pm$ 0.058  $\chi^2$ /NDF: 4223651.6/16

Left Out: 258.765 $\pm$ 0.072  $\chi^2$ /NDF: 458878.2/8

Right Out: 149.484 $\pm$ 0.049  $\chi^2$ /NDF: 4820971.0/18

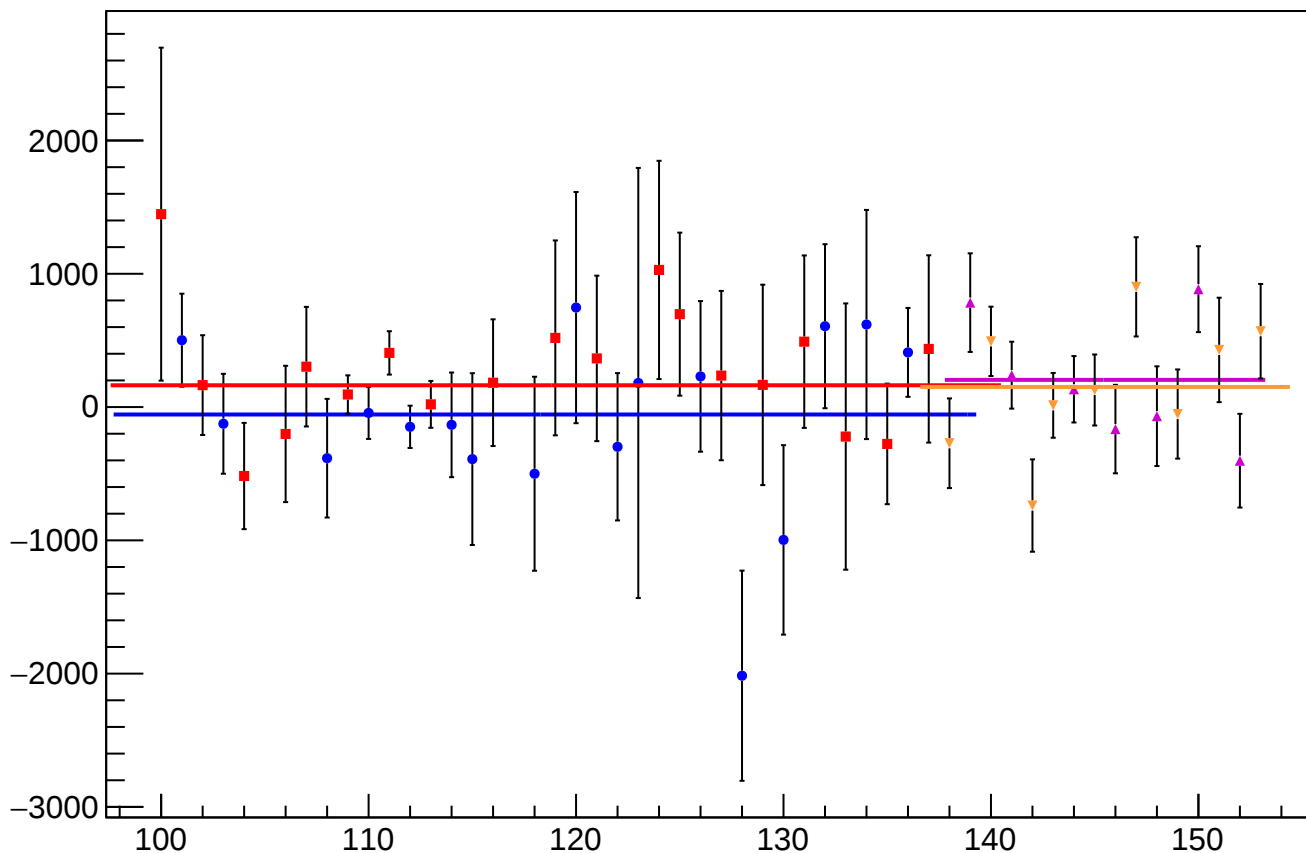
Left In: 273.892 $\pm$ 0.082  $\chi^2$ /NDF: 333961.8/6

+ sign 208.808 $\pm$ 0.045  $\chi^2$ /NDF: 5473953.6/25

All: 194.777 $\pm$ 0.031  $\chi^2$ /NDF: 12508873.0/51

- sign 182.689 $\pm$ 0.042  $\chi^2$ /NDF: 6857427.2/25

# asym\_sam8\_mean vs Slug



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $150.872 \pm 103.382$   $\chi^2/\text{NDF}$ : 16.6/8

Right Out:  $163.564 \pm 76.926$   $\chi^2/\text{NDF}$ : 11.4/18

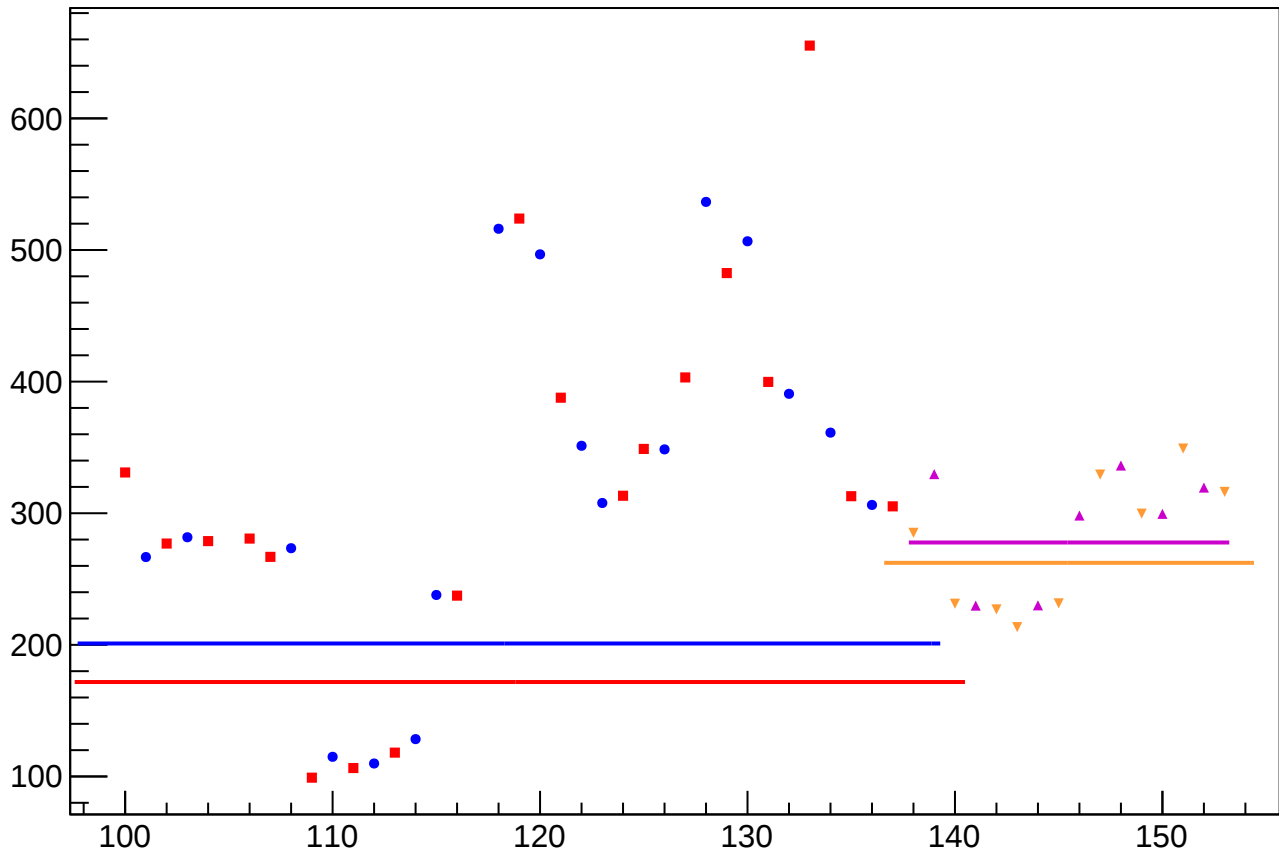
Left In:  $204.051 \pm 116.843$   $\chi^2/\text{NDF}$ : 11.8/6

+ sign  $33.989 \pm 68.126$   $\chi^2/\text{NDF}$ : 36.0/25

All:  $109.045 \pm 46.742$   $\chi^2/\text{NDF}$ : 61.5/51

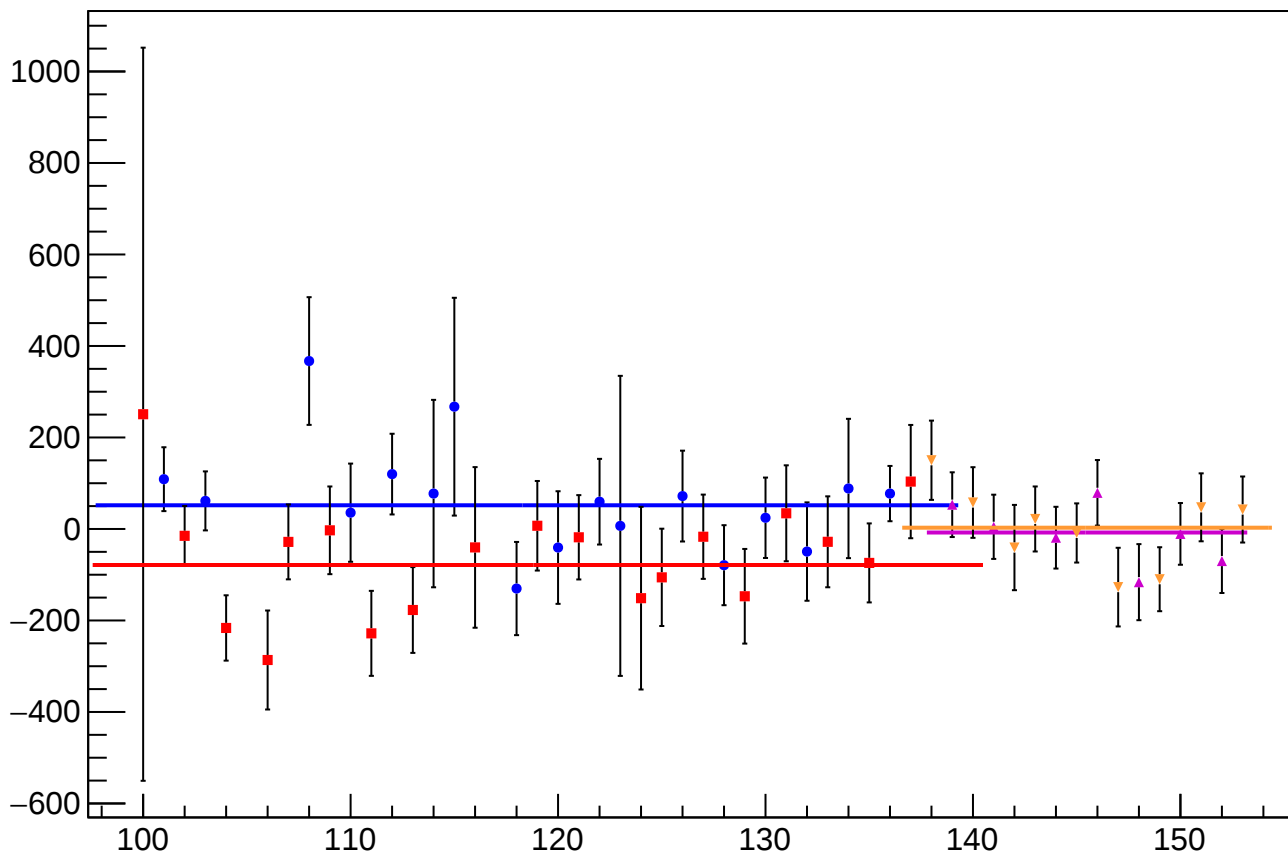
- sign  $175.807 \pm 64.251$   $\chi^2/\text{NDF}$ : 23.3/25

# asym\_sam8\_rms vs Slug



Right In: 201.036+/-0.064     $\chi^2/\text{NDF}$ : 3433026.4/16    + sign 227.646+/-0.048     $\chi^2/\text{NDF}$ : 4231007.2/25  
 Left Out: 262.314+/-0.073     $\chi^2/\text{NDF}$ : 400444.9/8    All: 215.037+/-0.033     $\chi^2/\text{NDF}$ : 9886970.0/51  
 Right Out: 171.765+/-0.054     $\chi^2/\text{NDF}$ : 4098218.1/18    - sign 203.821+/-0.045     $\chi^2/\text{NDF}$ : 5526505.3/25  
 Left In: 277.775+/-0.083     $\chi^2/\text{NDF}$ : 279776.2/6

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In:  $51.799 \pm 23.538$   $\chi^2/\text{NDF}$ : 14.5/16

Left Out:  $2.785 \pm 25.266$   $\chi^2/\text{NDF}$ : 9.3/8

Right Out:  $-78.749 \pm 22.490$   $\chi^2/\text{NDF}$ : 19.1/18

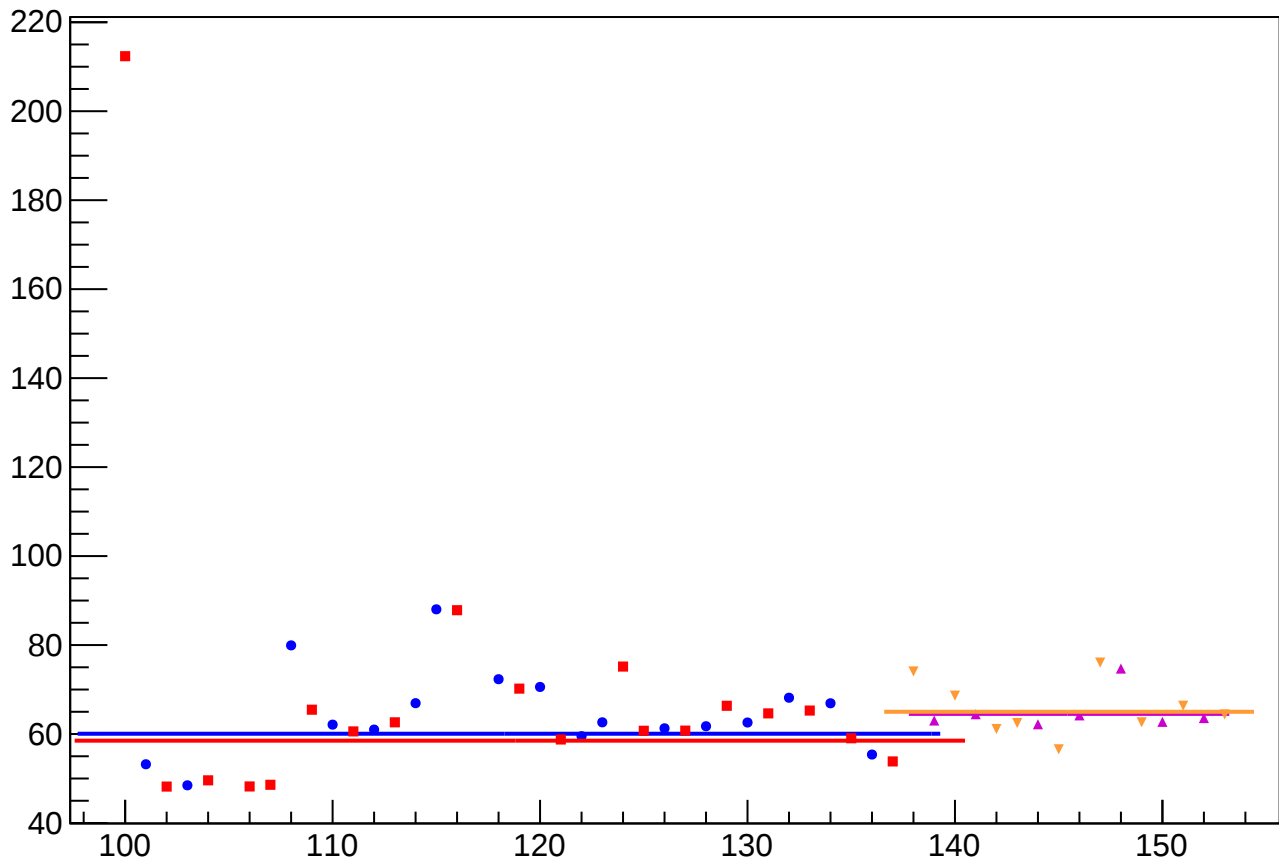
Left In:  $-7.746 \pm 26.858$   $\chi^2/\text{NDF}$ : 4.8/6

+ sign  $29.025 \pm 17.222$   $\chi^2/\text{NDF}$ : 25.8/25

All:  $-10.181 \pm 12.185$   $\chi^2/\text{NDF}$ : 64.2/51

- sign  $-49.483 \pm 17.243$   $\chi^2/\text{NDF}$ : 28.0/25

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 60.065+/-0.017  $\chi^2/\text{NDF}$ : 229098.7/16

Left Out: 65.001+/-0.018  $\chi^2/\text{NDF}$ : 102532.1/8

Right Out: 58.508+/-0.016  $\chi^2/\text{NDF}$ : 348822.3/18

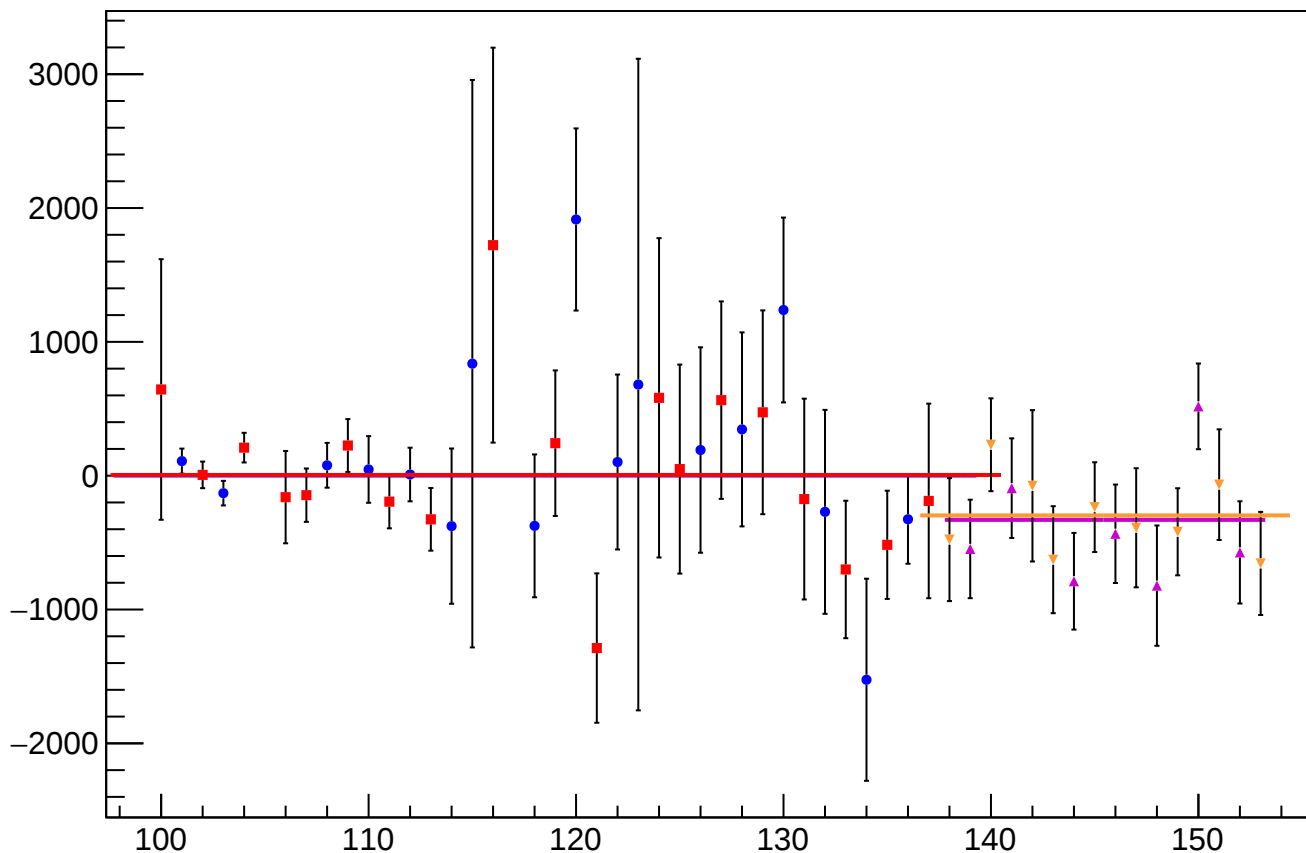
Left In: 64.527+/-0.019  $\chi^2/\text{NDF}$ : 35119.2/6

+ sign 62.359+/-0.012  $\chi^2/\text{NDF}$ : 372493.5/25

All: 61.675+/-0.009  $\chi^2/\text{NDF}$ : 821789.3/51

- sign 60.989+/-0.012  $\chi^2/\text{NDF}$ : 442978.2/25

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In:  $1.581 \pm 54.284$   $\chi^2/\text{NDF}$ : 21.4/16

Left Out:  $-296.605 \pm 130.841$   $\chi^2/\text{NDF}$ : 4.7/8

Right Out:  $5.402 \pm 56.516$   $\chi^2/\text{NDF}$ : 20.7/18

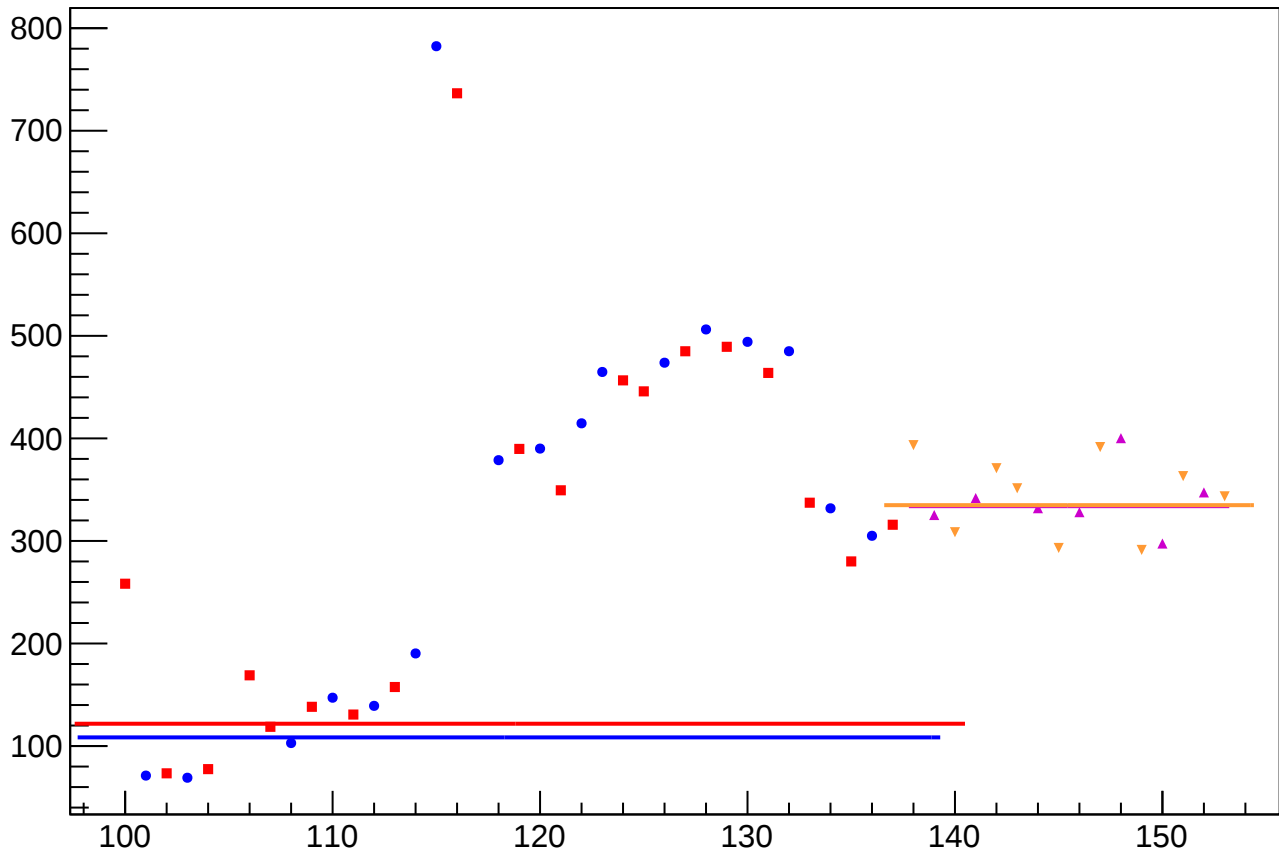
Left In:  $-330.166 \pm 139.737$   $\chi^2/\text{NDF}$ : 11.1/6

+ sign  $-42.209 \pm 50.140$   $\chi^2/\text{NDF}$ : 30.5/25

All:  $-42.000 \pm 36.225$   $\chi^2/\text{NDF}$ : 67.2/51

- sign  $-41.772 \pm 52.393$   $\chi^2/\text{NDF}$ : 36.7/25

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 108.445 $\pm$ 0.038  $\chi^2$ /NDF: 5404107.9/16

Left Out: 334.893 $\pm$ 0.093  $\chi^2$ /NDF:165323.4/8

Right Out: 121.765 $\pm$ 0.040  $\chi^2$ /NDF: 4771024.2/18

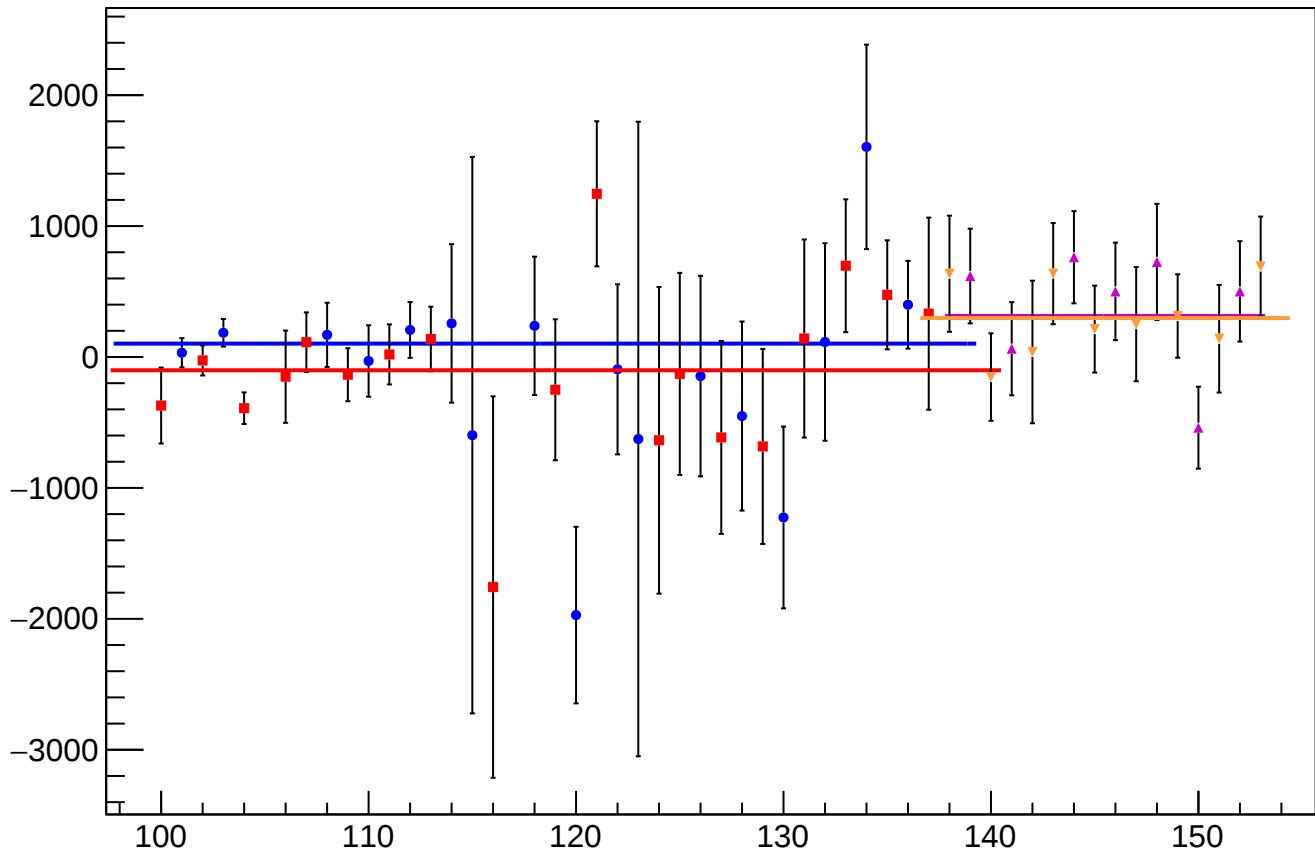
Left In: 333.912 $\pm$ 0.099  $\chi^2$ /NDF:74474.1/6

+ sign 141.700 $\pm$ 0.035  $\chi^2$ /NDF: 10680426.5/25

All: 146.427 $\pm$ 0.026  $\chi^2$ /NDF: 19524868.4/5

- sign 151.589 $\pm$ 0.037  $\chi^2$ /NDF: 8807252.0/25

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 102.221 $\pm$ 63.127  $\chi^2$ /NDF: 20.3/16

Left Out: 297.595 $\pm$ 127.905  $\chi^2$ /NDF: 4.7/8

Right Out: -101.249 $\pm$ 60.846  $\chi^2$ /NDF: 22.6/18

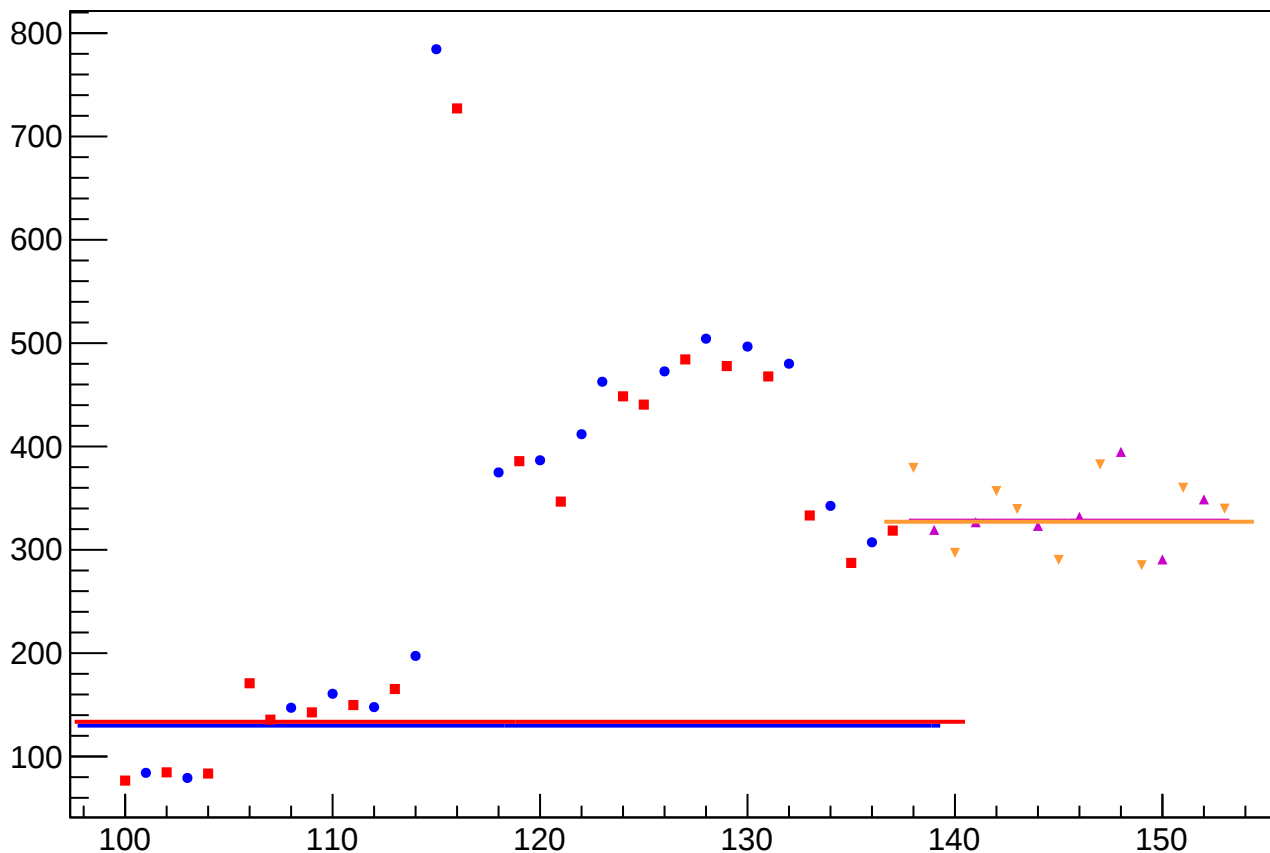
Left In: 313.306 $\pm$ 137.477  $\chi^2$ /NDF: 11.6/6

+ sign 140.490 $\pm$ 56.608  $\chi^2$ /NDF: 26.8/25

All: 52.073 $\pm$ 39.681  $\chi^2$ /NDF: 73.5/51

- sign -33.345 $\pm$ 55.640  $\chi^2$ /NDF: 41.9/25

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 327.189+/-0.090  $\chi^2/\text{NDF}$ : 158936.0/8

Right Out: 133.604+/-0.043  $\chi^2/\text{NDF}$ : 4363378.8/18

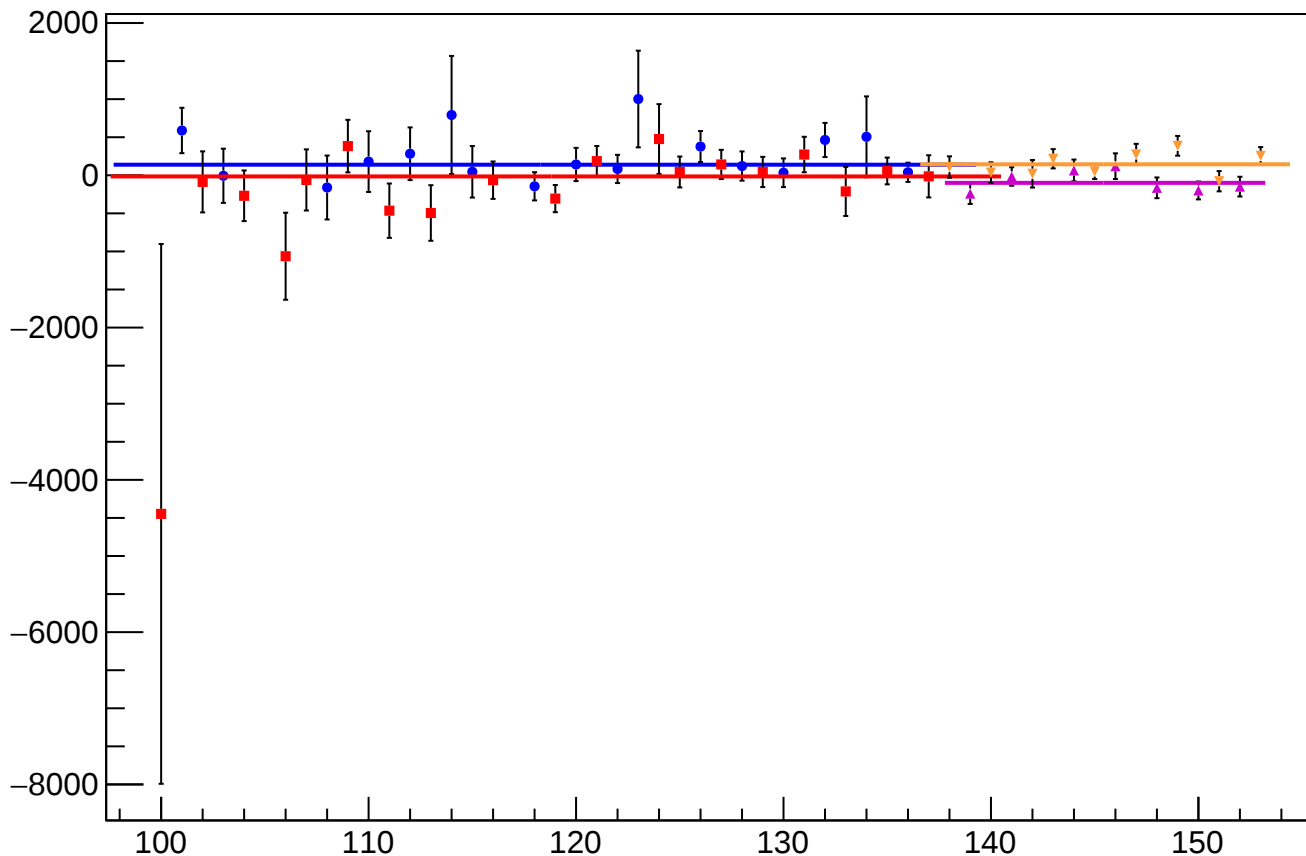
Left In: 328.260+/-0.097  $\chi^2/\text{NDF}$ : 81419.7/6

+ sign 168.531+/-0.040  $\chi^2/\text{NDF}$ : 8815418.7/25

All: 166.984+/-0.028  $\chi^2/\text{NDF}$ : 16616015.8/50

- sign 165.489+/-0.039  $\chi^2/\text{NDF}$ : 7797658.6/25

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 139.093 $\pm$ 57.982  $\chi^2$ /NDF: 13.1/16

Left Out: 144.396 $\pm$ 42.976  $\chi^2$ /NDF:10.5/8

Right Out: -14.912 $\pm$ 60.119  $\chi^2$ /NDF: 18.0/18

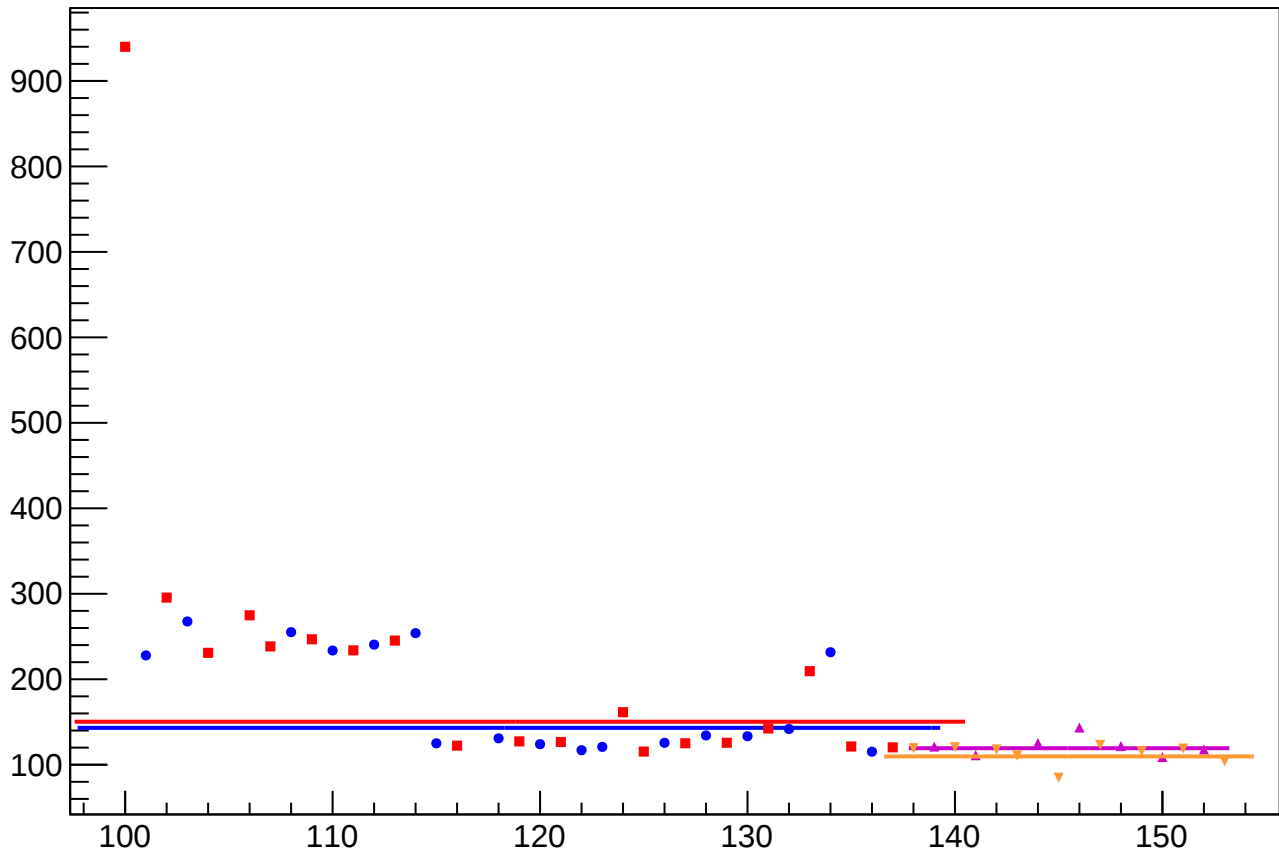
Left In: -99.282 $\pm$ 50.506  $\chi^2$ /NDF:5.6/6

+ sign 142.515 $\pm$ 34.526  $\chi^2$ /NDF: 23.6/25

All: 50.748 $\pm$ 25.755  $\chi^2$ /NDF: 64.3/51

- sign -64.373 $\pm$ 38.671  $\chi^2$ /NDF: 24.8/25

# dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 109.713 $\pm$ 0.030  $\chi^2$ /NDF:190831.4/8

Right Out: 150.336 $\pm$ 0.043  $\chi^2$ /NDF: 1432034.4/18

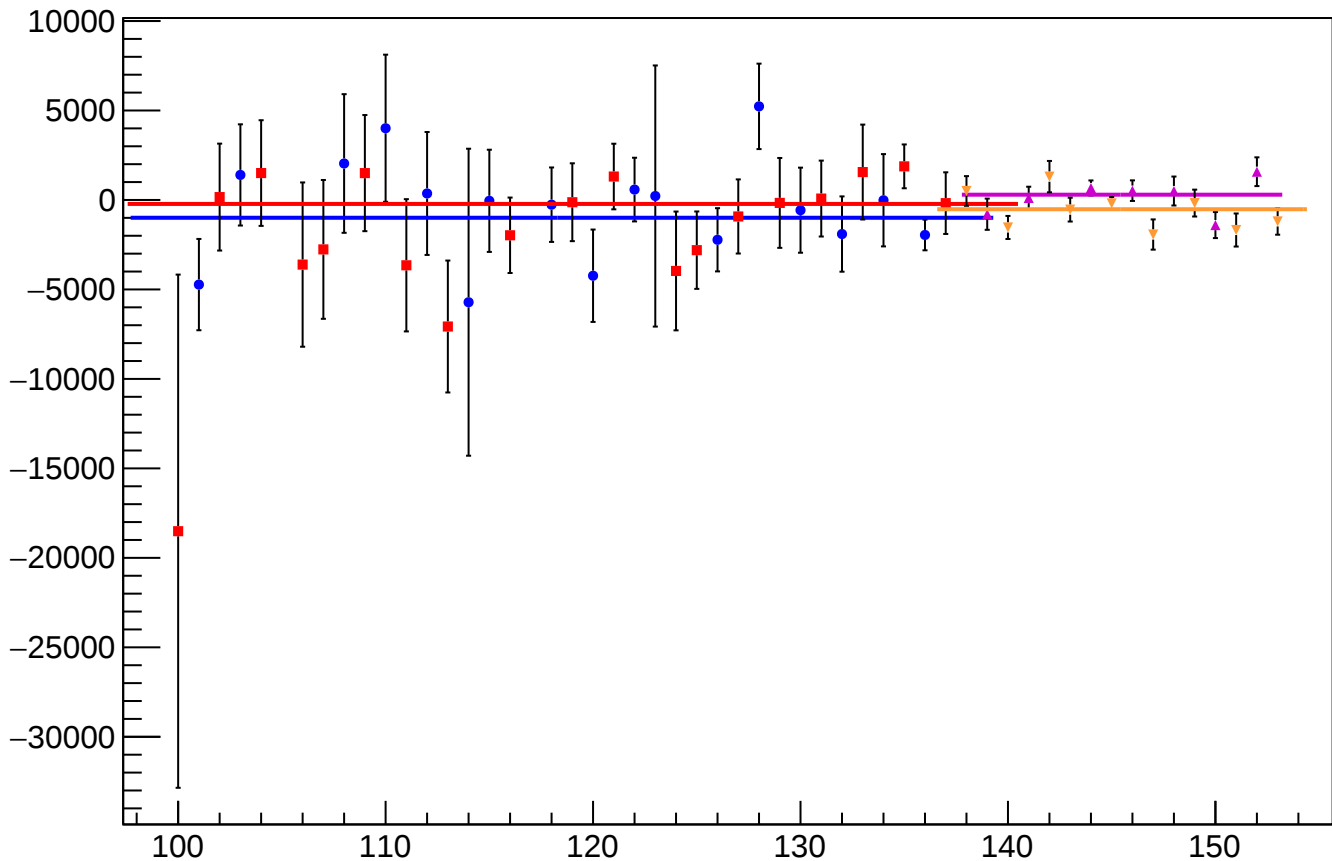
Left In: 119.321 $\pm$ 0.036  $\chi^2$ /NDF:70896.1/6

+ sign 121.565 $\pm$ 0.024  $\chi^2$ /NDF: 1721117.7/25

All: 126.262 $\pm$ 0.018  $\chi^2$ /NDF: 3619545.4/51

- sign 132.154 $\pm$ 0.027  $\chi^2$ /NDF: 1814991.1/25

# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In:  $-993.785 \pm 516.463$   $\chi^2/\text{NDF}$ : 16.9/16

Left Out:  $-517.172 \pm 215.269$   $\chi^2/\text{NDF}$ : 14.6/8

Right Out:  $-221.353 \pm 543.431$   $\chi^2/\text{NDF}$ : 15.2/18

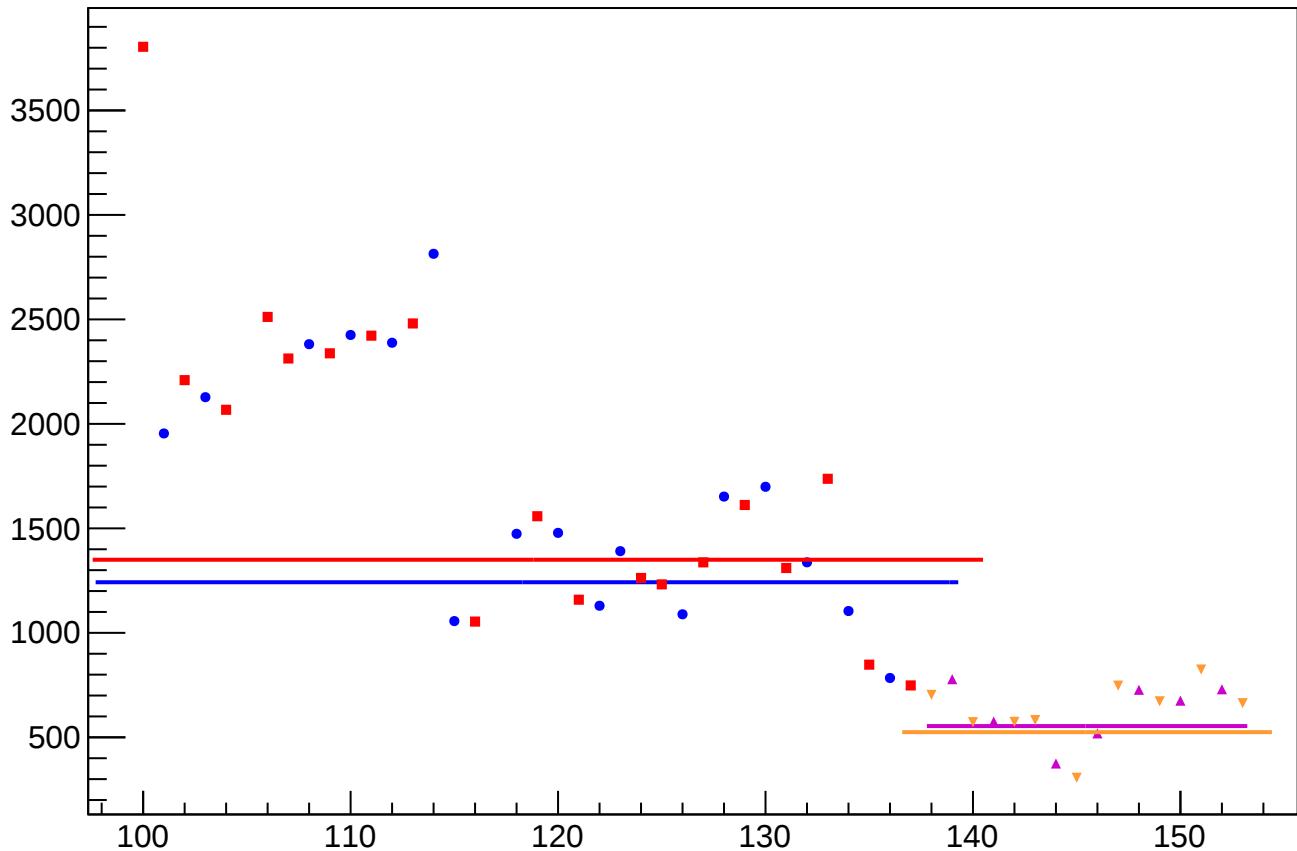
Left In:  $294.679 \pm 239.139$   $\chi^2/\text{NDF}$ : 10.7/6

+ sign  $-587.719 \pm 198.699$   $\chi^2/\text{NDF}$ : 32.3/25

All:  $-226.893 \pm 147.121$   $\chi^2/\text{NDF}$ : 66.2/51

- sign  $210.961 \pm 218.883$   $\chi^2/\text{NDF}$ : 26.6/25

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1242.172 $\pm$ 0.365  $\chi^2/\text{NDF}$ : 1767422.8/16

Left Out: 524.736 $\pm$ 0.152  $\chi^2/\text{NDF}$ :1382854.1/8

Right Out: 1349.870 $\pm$ 0.384  $\chi^2/\text{NDF}$ : 1867853.5/18

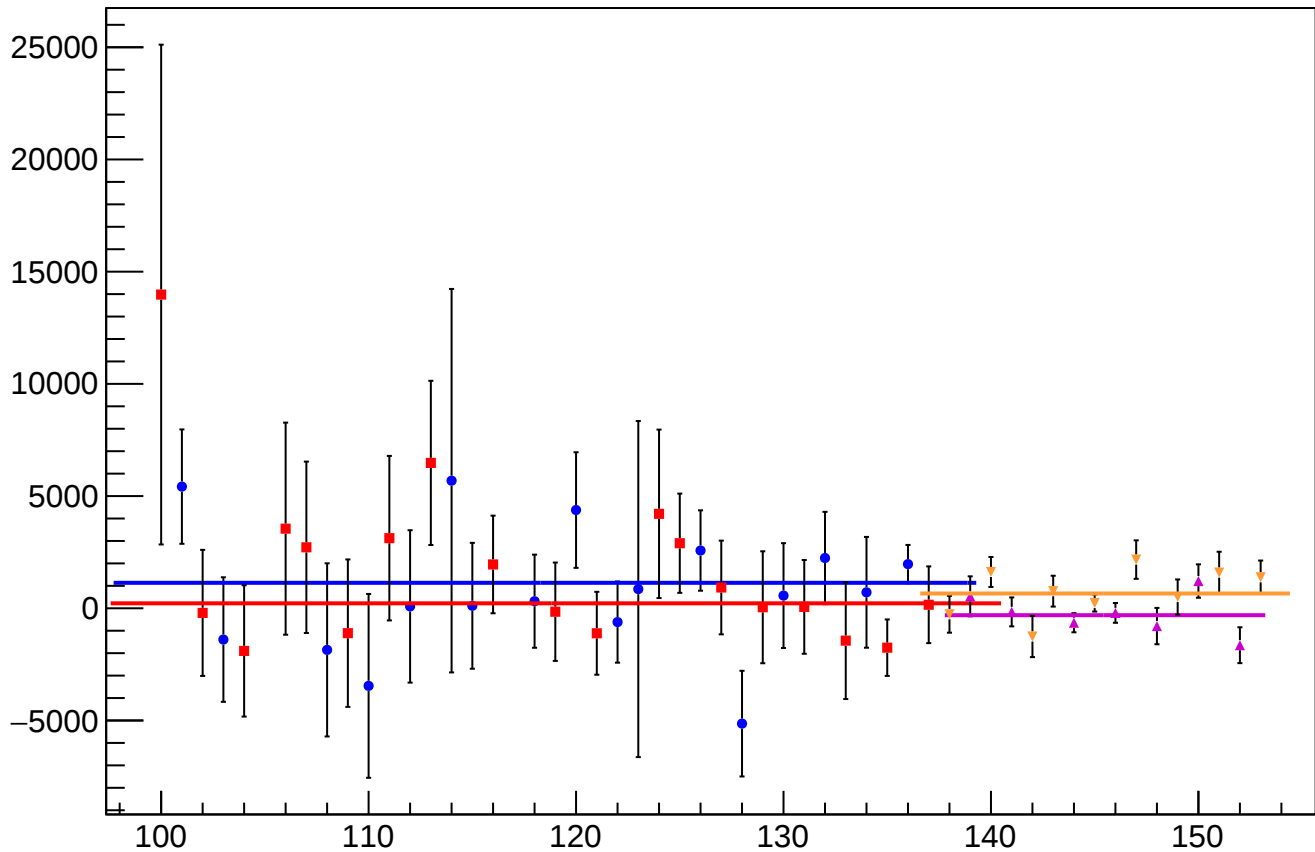
Left In: 553.887 $\pm$ 0.169  $\chi^2/\text{NDF}$ :748605.5/6

+ sign 630.929 $\pm$ 0.141  $\chi^2/\text{NDF}$ : 6438402.6/25

All: 654.463 $\pm$ 0.104  $\chi^2/\text{NDF}$ : 12711746.0/50

- sign 683.022 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 6211241.1/25

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 658.621 $\pm$ 224.232  $\chi^2$ /NDF: 14.1/8

Right Out: 220.849 $\pm$ 547.528  $\chi^2$ /NDF: 13.5/18

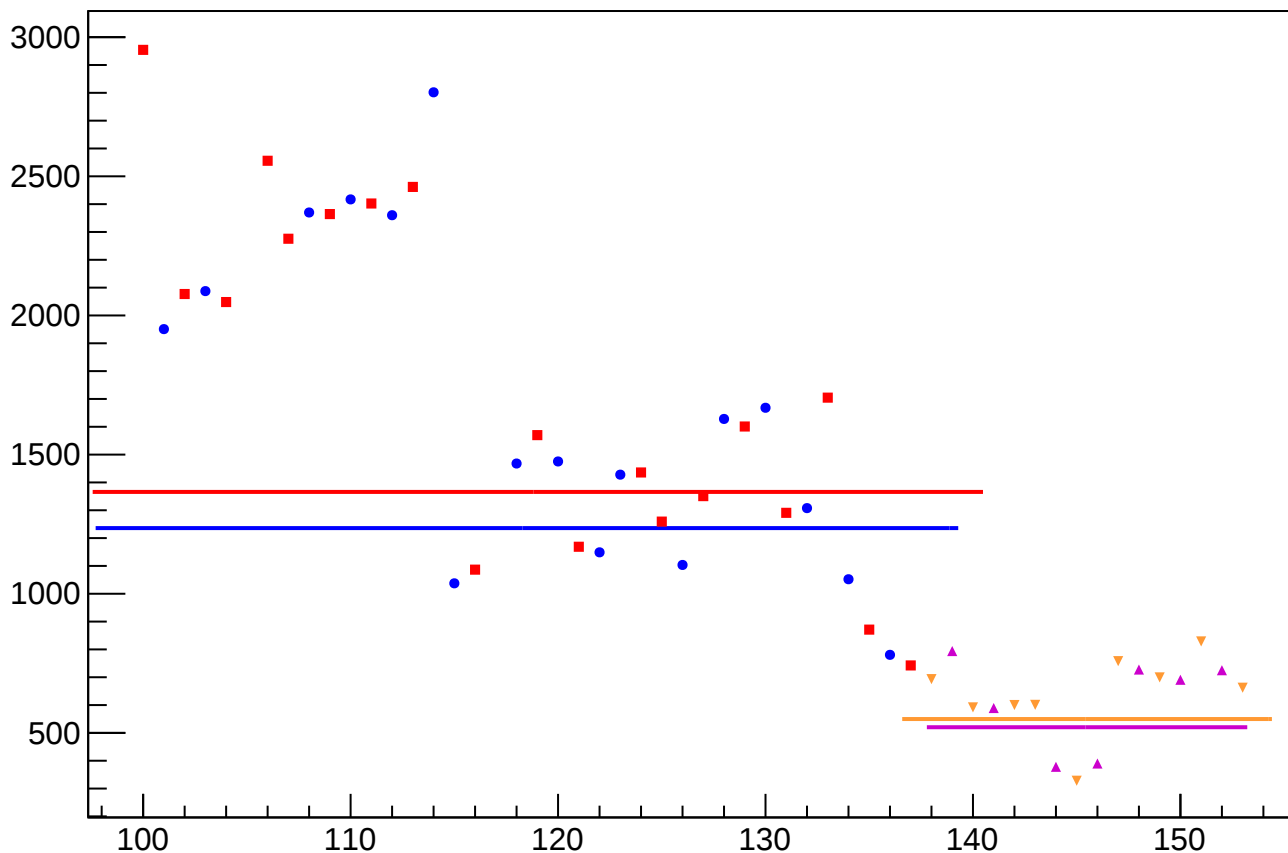
Left In: -307.789 $\pm$ 228.075  $\chi^2$ /NDF: 9.0/6

+ sign 734.879 $\pm$ 205.511  $\chi^2$ /NDF: 32.6/25

All: 264.281 $\pm$ 147.064  $\chi^2$ /NDF: 66.6/51

- sign -229.624 $\pm$ 210.539  $\chi^2$ /NDF: 23.2/25

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 549.807+/-0.159  $\chi^2/\text{NDF}$ : 1180391.3/8

Right Out: 1365.941+/-0.387  $\chi^2/\text{NDF}$ : 1750044.7/18

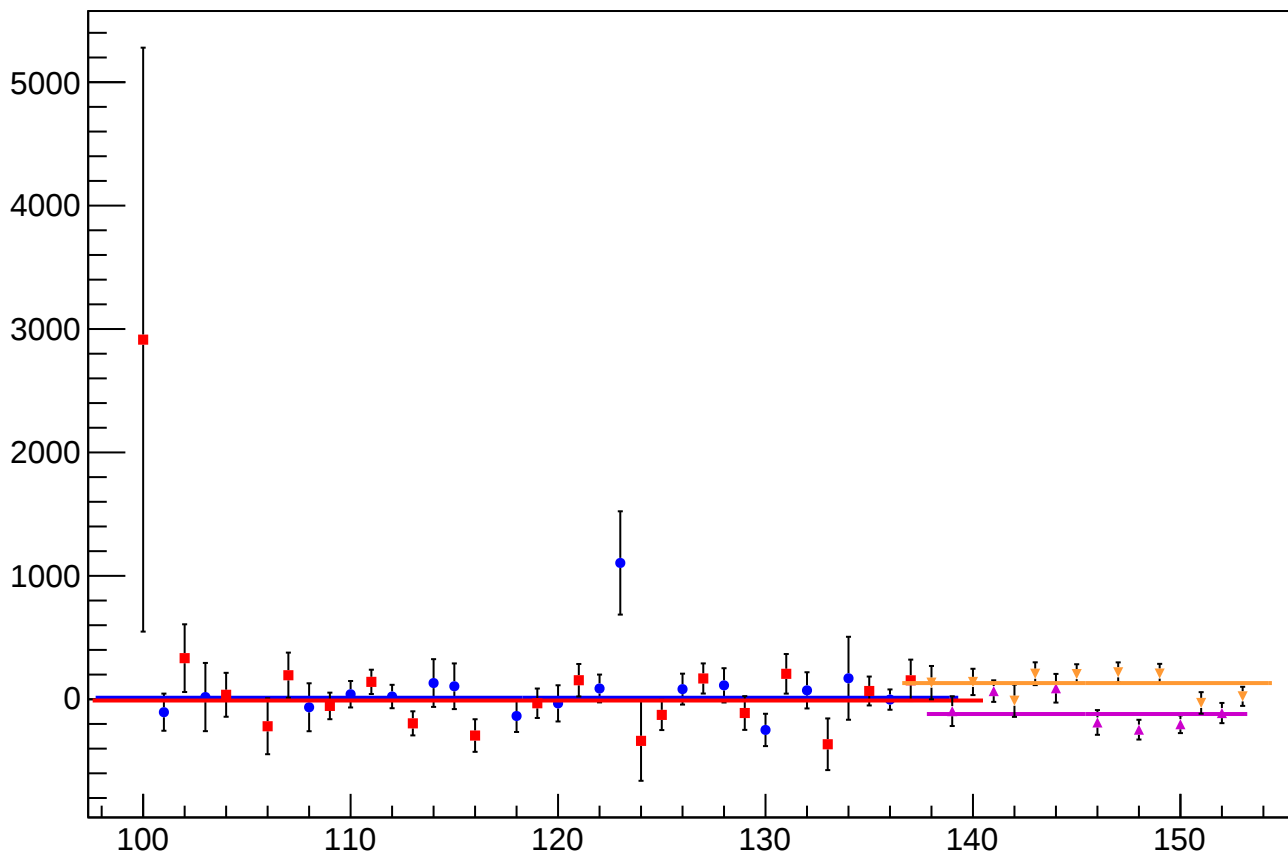
Left In: 520.354+/-0.161  $\chi^2/\text{NDF}$ : 977179.3/6

+ sign 659.591+/-0.145  $\chi^2/\text{NDF}$ : 5922401.1/25

All: 652.658+/-0.104  $\chi^2/\text{NDF}$ : 12719143.9/50

- sign 645.383+/-0.149  $\chi^2/\text{NDF}$ : 6792078.5/25

# dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In:  $12.308 \pm 33.228$   $\chi^2/\text{NDF}$ : 15.4/16

Left Out:  $131.179 \pm 30.294$   $\chi^2/\text{NDF}$ : 10.2/8

Right Out:  $-10.036 \pm 32.603$   $\chi^2/\text{NDF}$ : 28.3/18

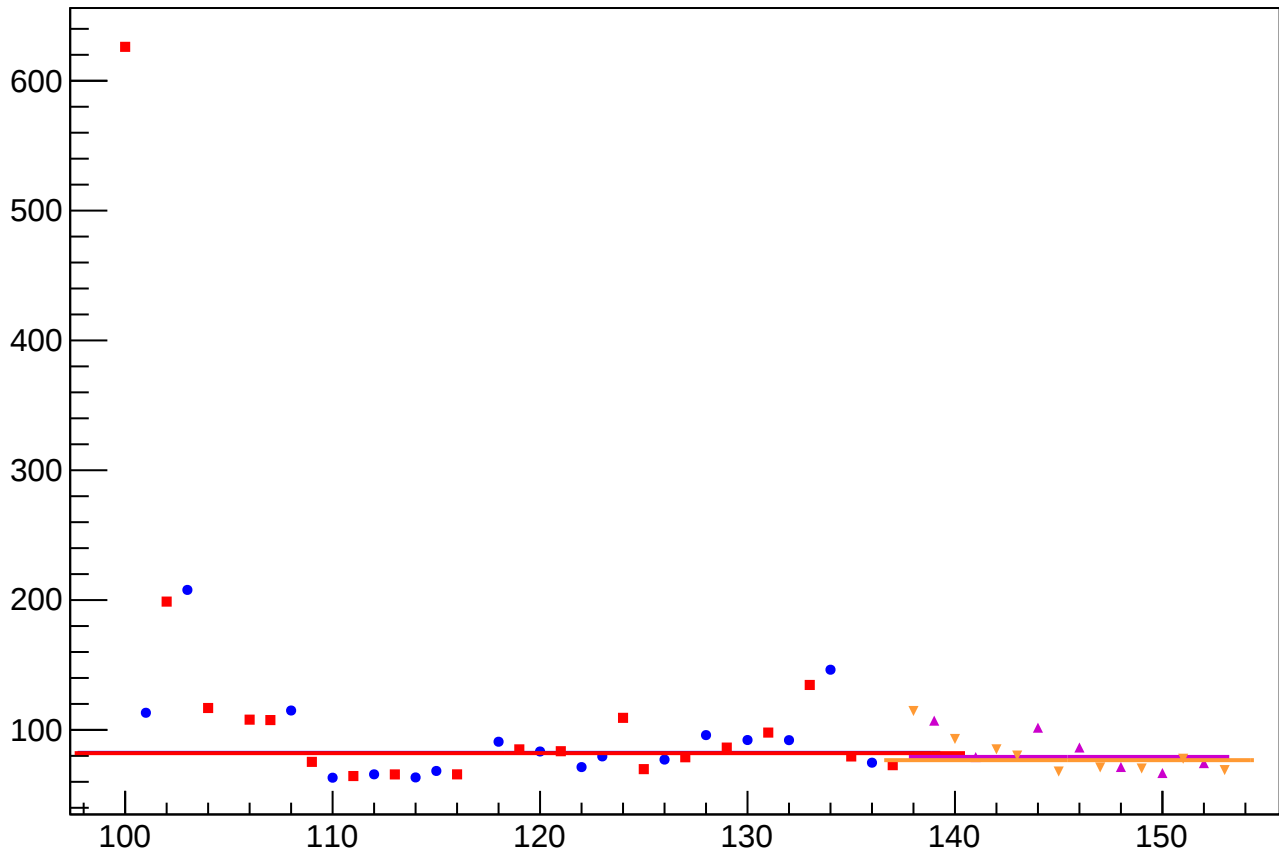
Left In:  $-119.467 \pm 33.864$   $\chi^2/\text{NDF}$ : 12.1/6

+ sign  $77.222 \pm 22.387$   $\chi^2/\text{NDF}$ : 32.5/25

All:  $10.626 \pm 16.205$   $\chi^2/\text{NDF}$ : 96.9/51

- sign  $-62.676 \pm 23.487$   $\chi^2/\text{NDF}$ : 45.8/25

# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 82.306+/-0.023  $\chi^2/\text{NDF}$ : 868742.4/16

Left Out: 76.689+/-0.021  $\chi^2/\text{NDF}$ : 282391.6/8

Right Out: 82.091+/-0.023  $\chi^2/\text{NDF}$ : 959008.5/18

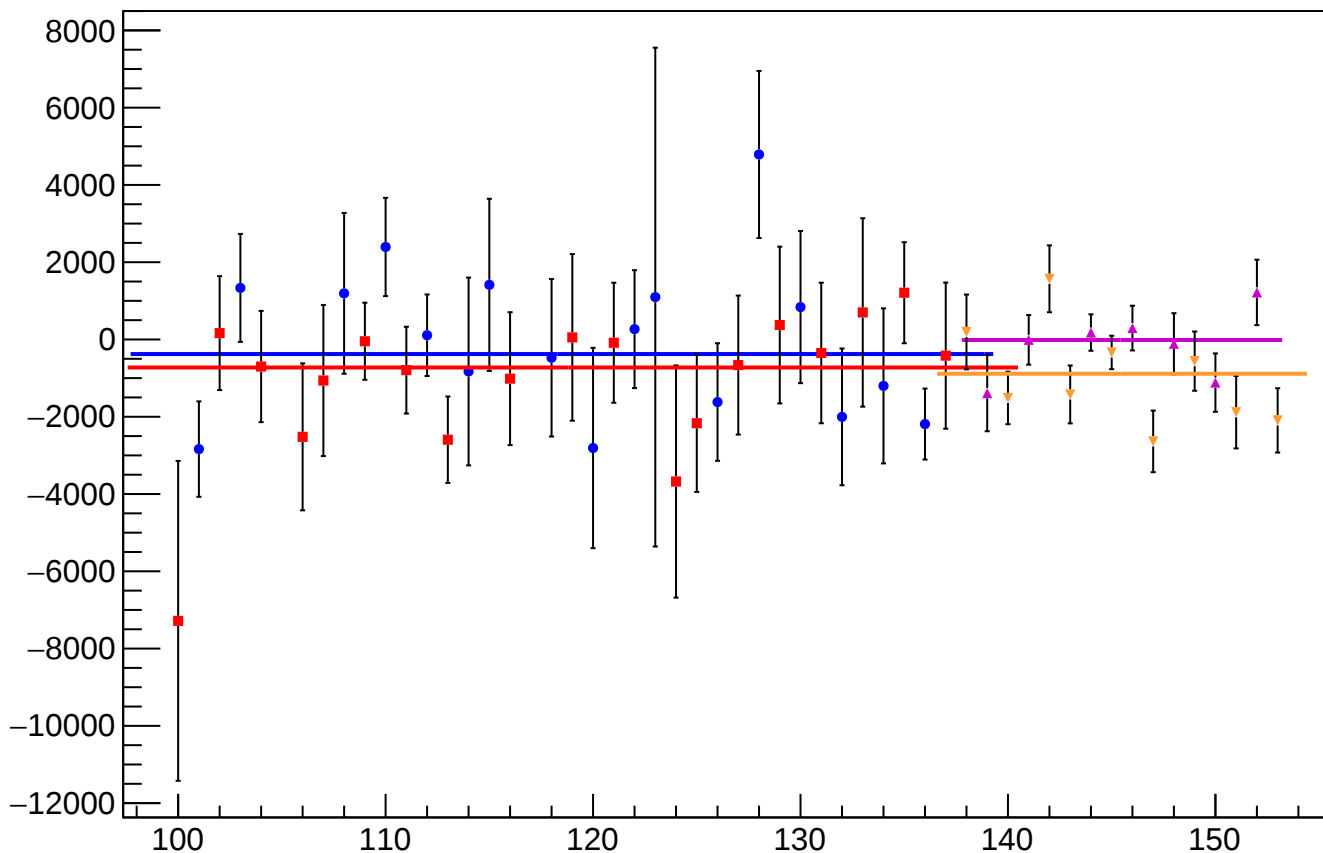
Left In: 79.180+/-0.024  $\chi^2/\text{NDF}$ : 278041.8/6

+ sign 79.239+/-0.016  $\chi^2/\text{NDF}$ : 1182340.5/25

All: 79.930+/-0.011  $\chi^2/\text{NDF}$ : 2431064.7/51

- sign 80.690+/-0.017  $\chi^2/\text{NDF}$ : 1244720.5/25

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}$ : 24.5/16

Left Out:  $-887.031 \pm 238.718$   $\chi^2/\text{NDF}$ : 20.5/8

Right Out:  $-725.204 \pm 367.170$   $\chi^2/\text{NDF}$ : 11.9/18

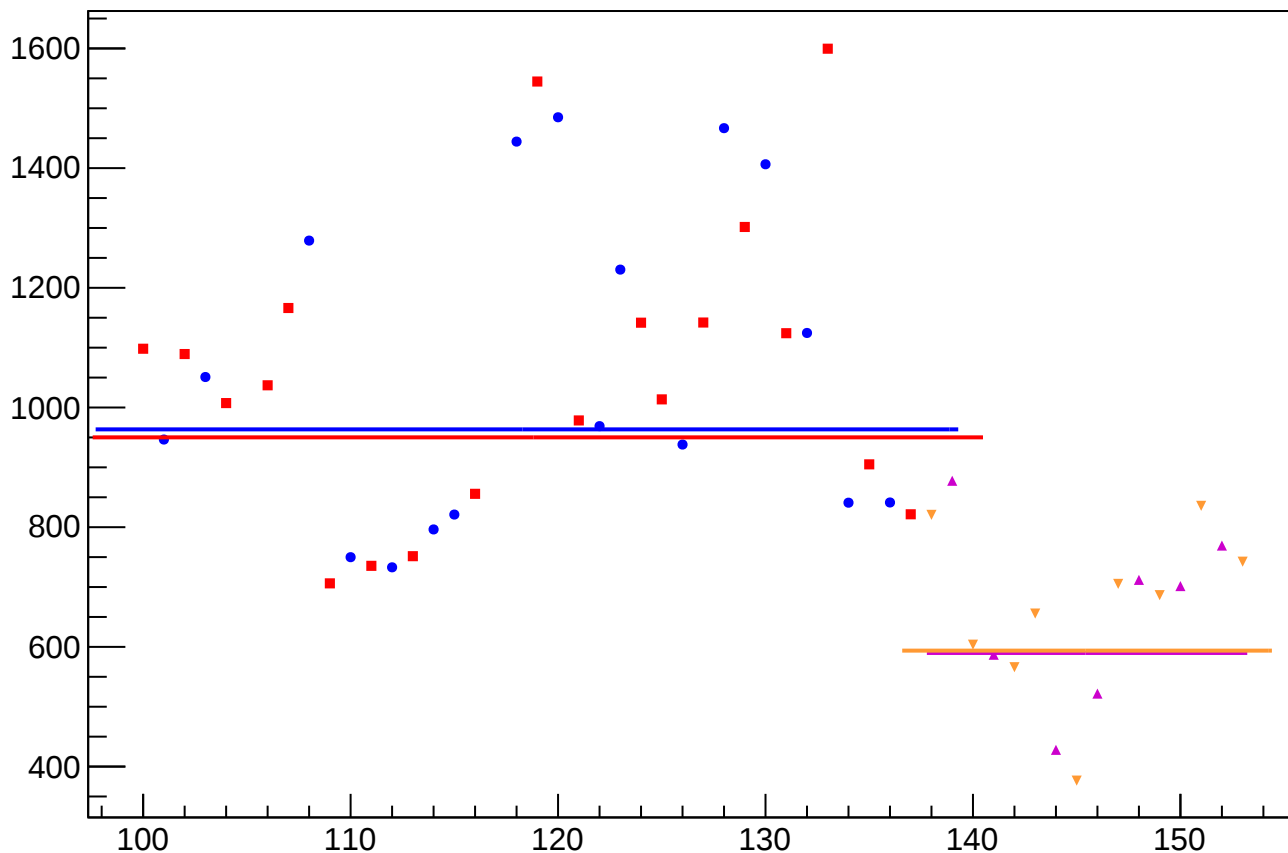
Left In:  $-12.852 \pm 252.507$   $\chi^2/\text{NDF}$ : 6.7/6

+ sign  $-744.902 \pm 202.721$   $\chi^2/\text{NDF}$ : 46.3/25

All:  $-499.776 \pm 145.195$   $\chi^2/\text{NDF}$ : 70.4/51

- sign  $-241.579 \pm 208.056$   $\chi^2/\text{NDF}$ : 21.1/25

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 963.469 $\pm$ 0.271  $\chi^2/\text{NDF}$ : 688873.3/16

Left Out: 593.746 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 895470.2/8

Right Out: 950.122 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 731958.5/18

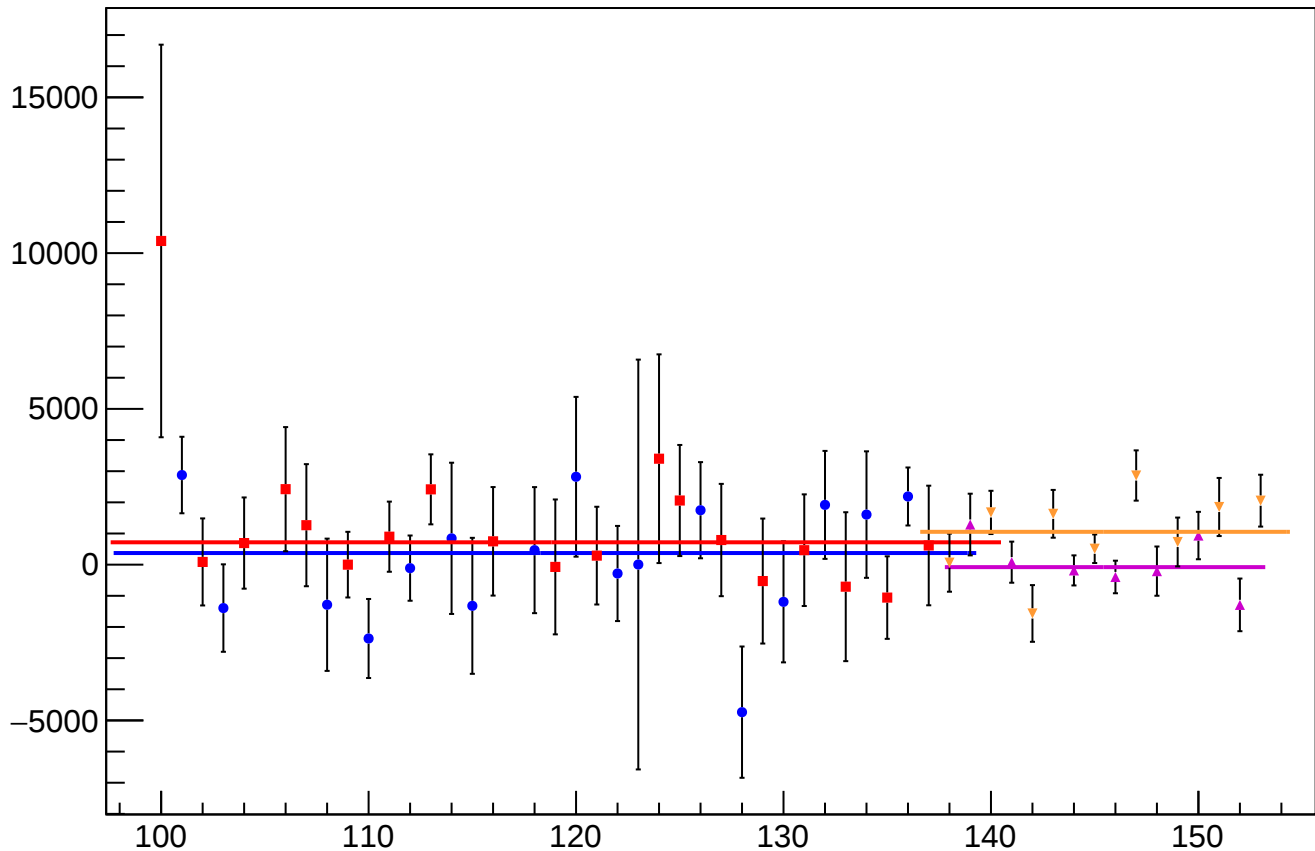
Left In: 589.851 $\pm$ 0.179  $\chi^2/\text{NDF}$ : 614735.8/6

+ sign 696.842 $\pm$ 0.143  $\chi^2/\text{NDF}$ : 2922111.5/25

All: 701.073 $\pm$ 0.103  $\chi^2/\text{NDF}$ : 5577871.5/51

- sign 705.529 $\pm$ 0.147  $\chi^2/\text{NDF}$ : 2653971.4/25

# asym\_sam\_37\_avg\_mean vs Slug



Right In:  $372.896 \pm 383.661$   $\chi^2/\text{NDF}$ : 25.3/16

Left Out:  $1053.921 \pm 245.175$   $\chi^2/\text{NDF}$ : 19.6/8

Right Out:  $717.404 \pm 371.769$   $\chi^2/\text{NDF}$ : 10.1/18

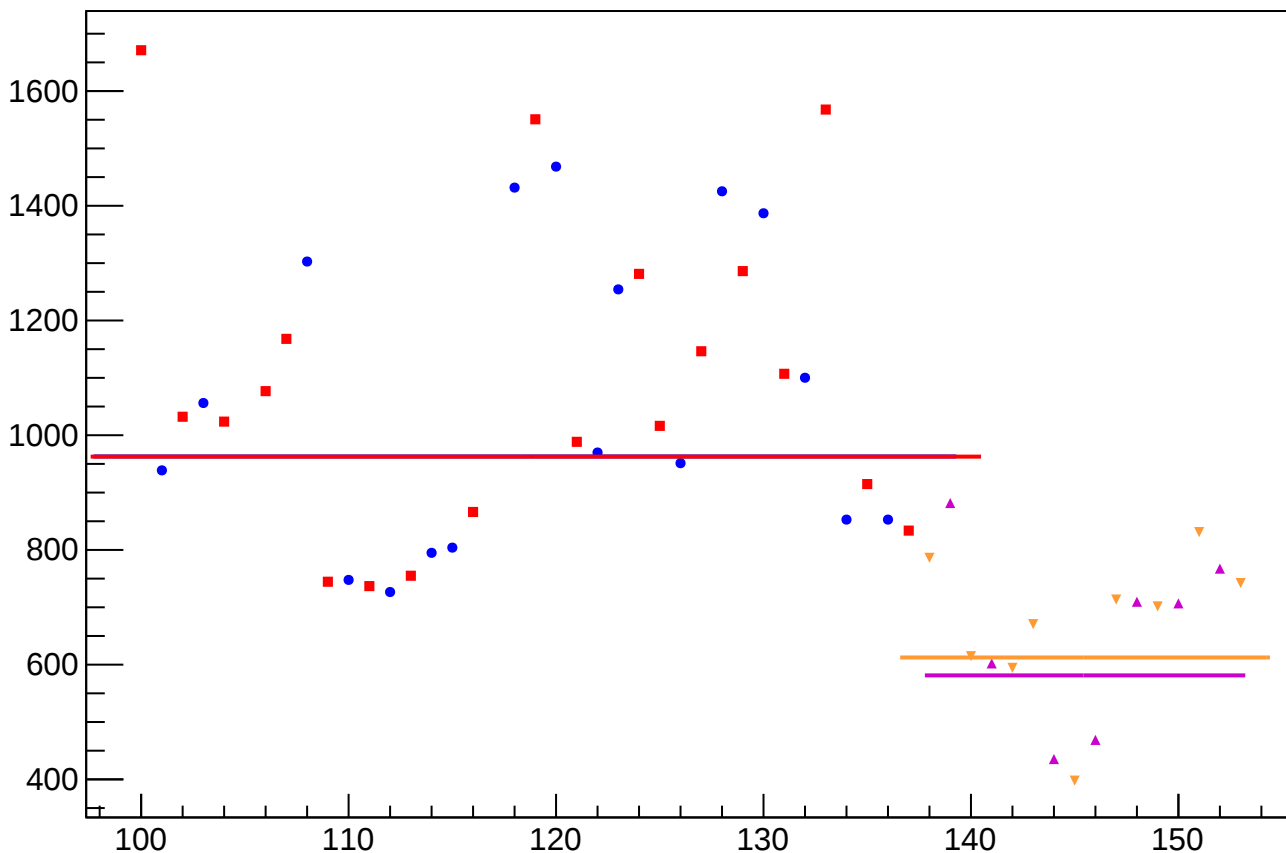
Left In:  $-79.395 \pm 250.025$   $\chi^2/\text{NDF}$ : 6.2/6

+ sign  $856.451 \pm 206.594$   $\chi^2/\text{NDF}$ : 47.1/25

All:  $514.059 \pm 146.393$   $\chi^2/\text{NDF}$ : 72.1/51

- sign  $168.756 \pm 207.471$   $\chi^2/\text{NDF}$ : 19.5/25

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 962.971+/-0.271  $\chi^2/\text{NDF}$ : 667521.9/16

Left Out: 612.518+/-0.173  $\chi^2/\text{NDF}$ : 734973.4/8

Right Out: 962.693+/-0.263  $\chi^2/\text{NDF}$ : 696385.7/18

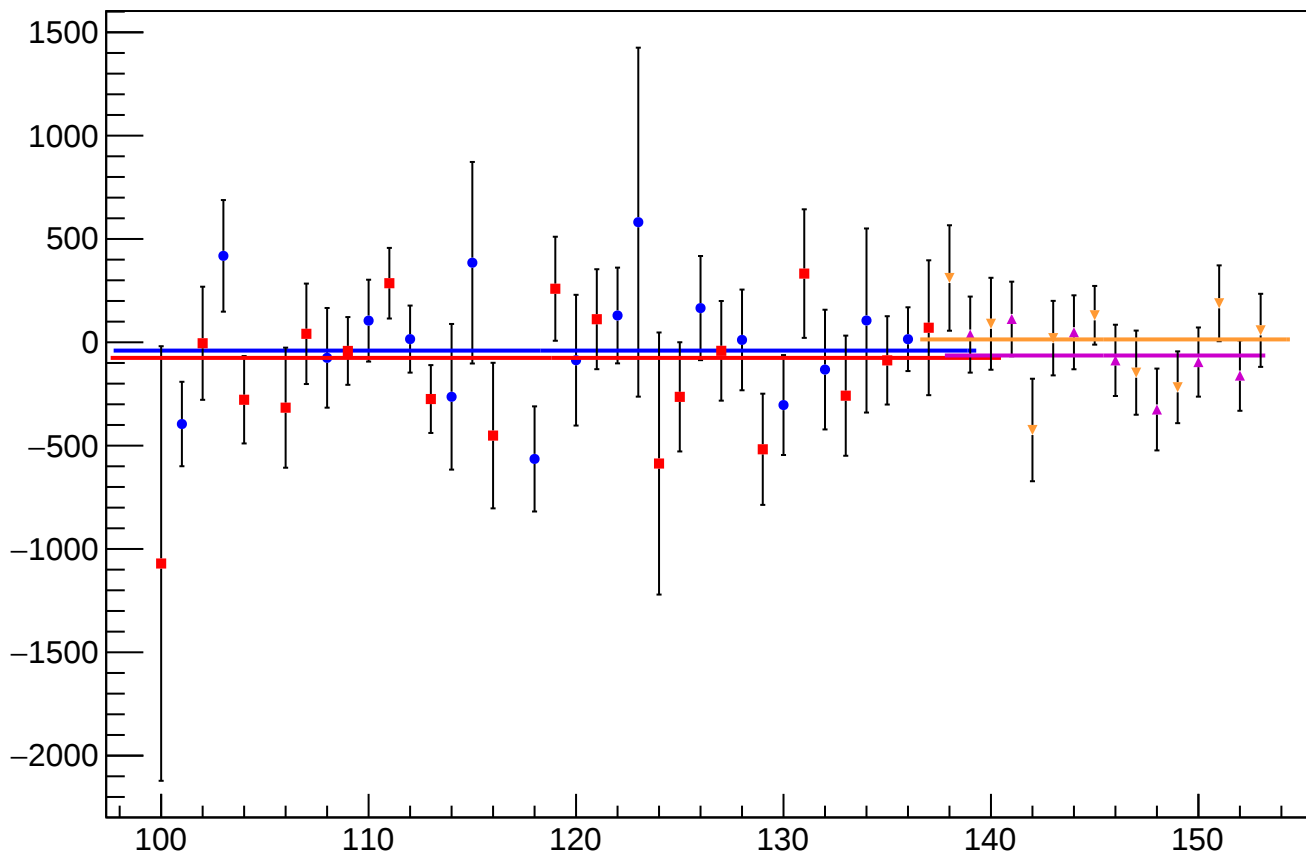
Left In: 581.307+/-0.177  $\chi^2/\text{NDF}$ : 665612.4/6

+ sign 714.135+/-0.146  $\chi^2/\text{NDF}$ : 2587377.4/25

All: 707.139+/-0.104  $\chi^2/\text{NDF}$ : 5403284.6/51

- sign 700.083+/-0.147  $\chi^2/\text{NDF}$ : 2811300.5/25

dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-40.122 \pm 59.256$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $13.946 \pm 63.105$   $\chi^2/\text{NDF}$ : 8.6/8

Right Out:  $-75.460 \pm 56.233$   $\chi^2/\text{NDF}$ : 18.5/18

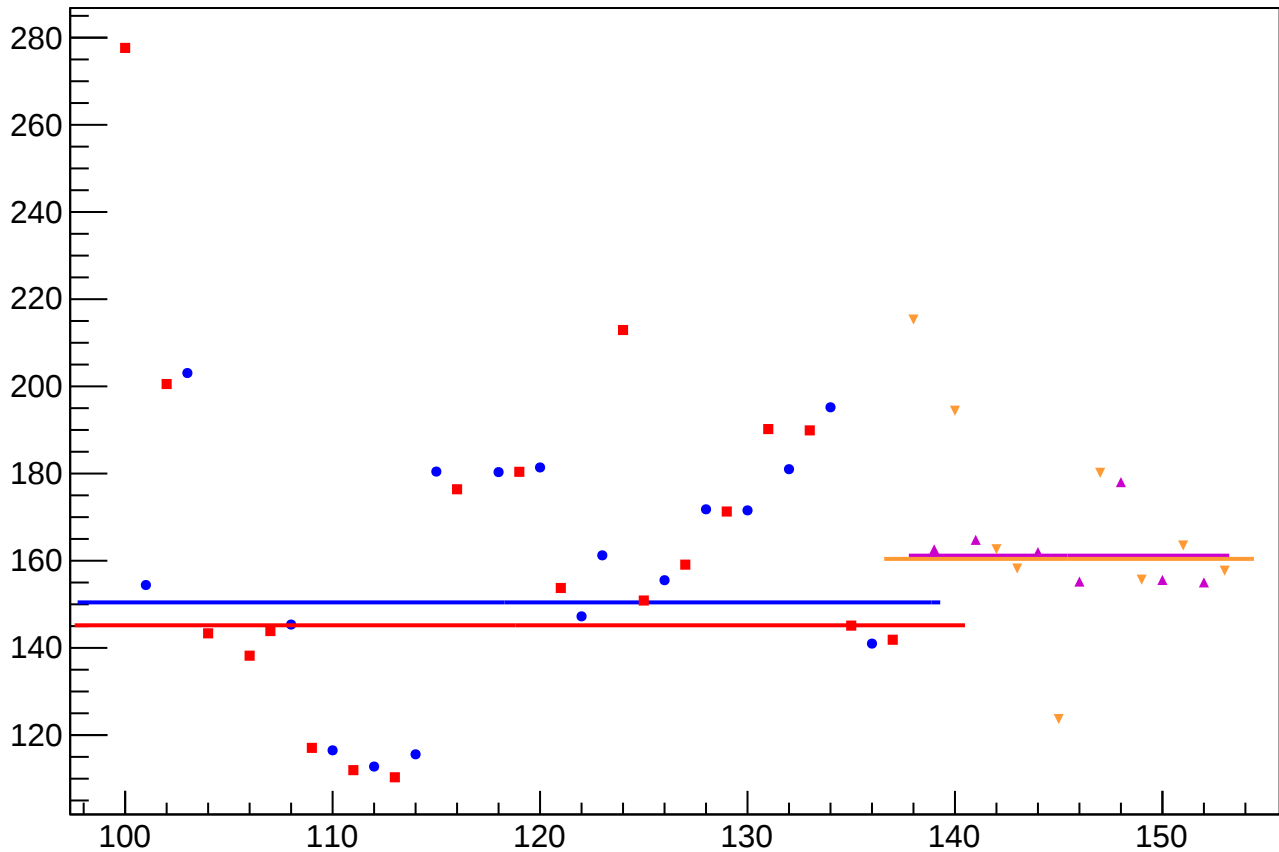
Left In:  $-63.871 \pm 67.293$   $\chi^2/\text{NDF}$ : 3.8/6

+ sign  $-14.787 \pm 43.197$   $\chi^2/\text{NDF}$ : 24.4/25

All:  $-42.771 \pm 30.528$   $\chi^2/\text{NDF}$ : 47.5/51

- sign  $-70.695 \pm 43.150$   $\chi^2/\text{NDF}$ : 22.3/25

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 160.424 $\pm$ 0.045  $\chi^2$ /NDF: 294913.6/8

Right Out: 145.187 $\pm$ 0.040  $\chi^2$ /NDF: 535696.3/18

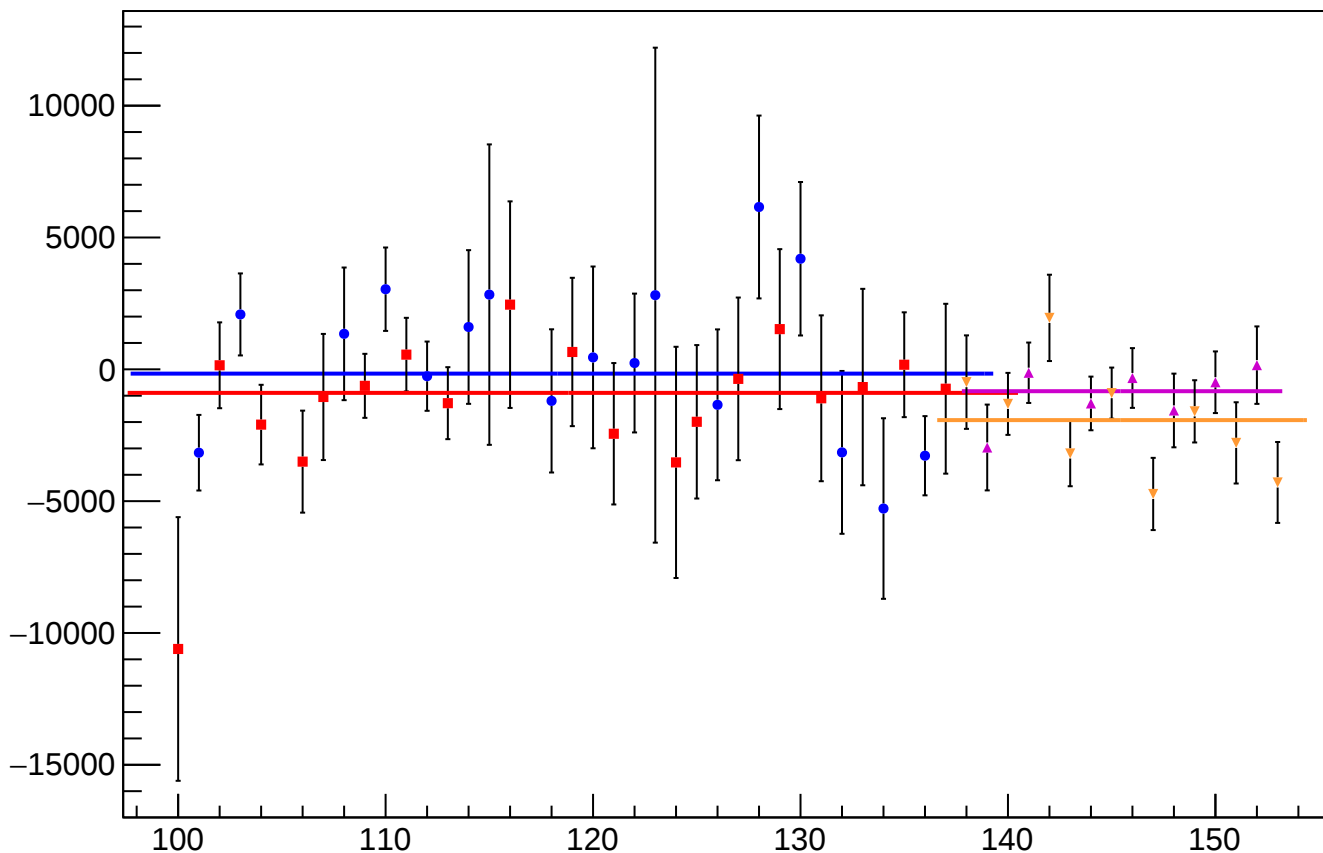
Left In: 161.166 $\pm$ 0.048  $\chi^2$ /NDF: 22684.6/6

+ sign 155.119 $\pm$ 0.031  $\chi^2$ /NDF: 721627.9/25

All: 153.436 $\pm$ 0.022  $\chi^2$ /NDF: 1352471.7/51

- sign 151.757 $\pm$ 0.031  $\chi^2$ /NDF: 624780.4/25

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}$ : 25.1/16

Left Out:  $-1926.268 \pm 437.585$   $\chi^2/\text{NDF}$ : 15.6/8

Right Out:  $-893.137 \pm 484.322$   $\chi^2/\text{NDF}$ : 10.7/18

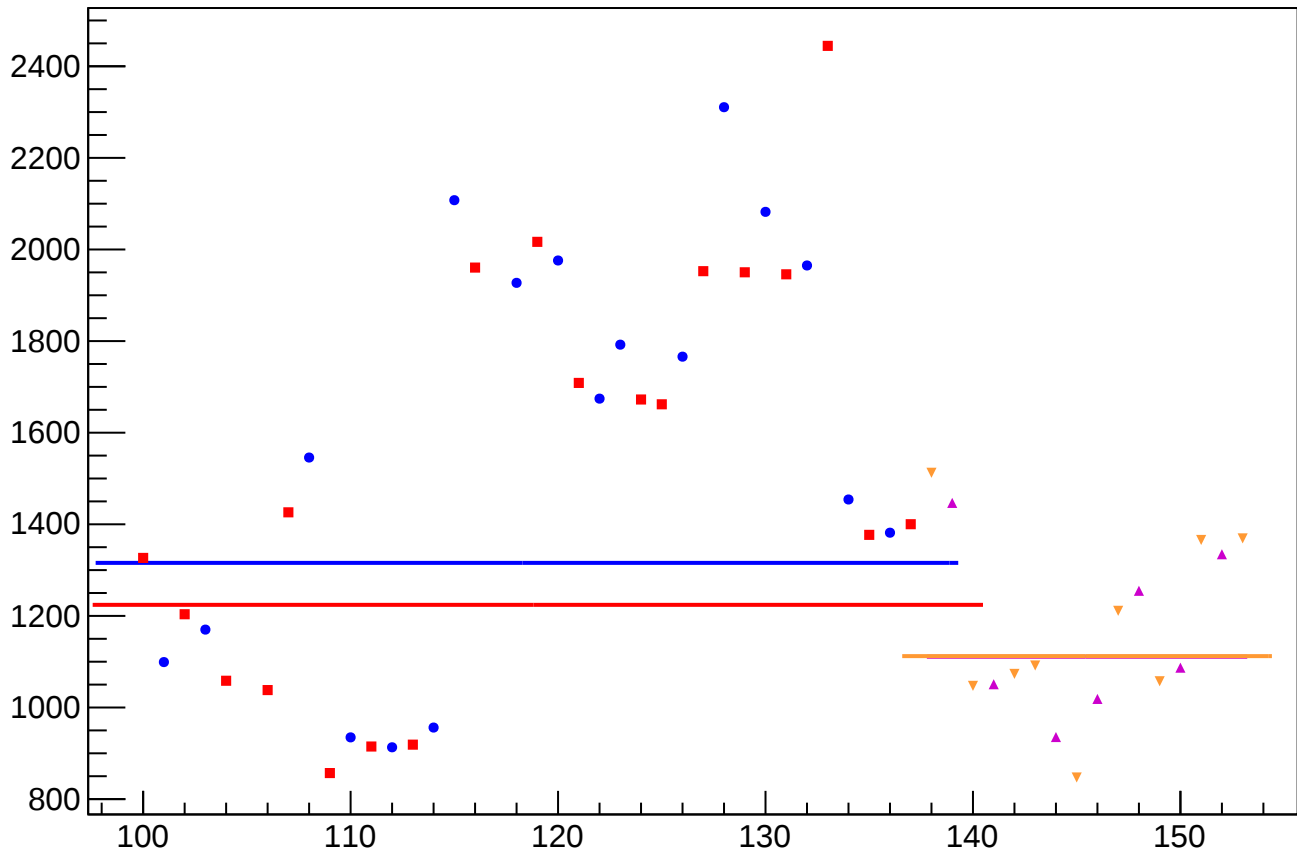
Left In:  $-829.525 \pm 466.696$   $\chi^2/\text{NDF}$ : 3.3/6

+ sign  $-1216.500 \pm 338.249$   $\chi^2/\text{NDF}$ : 47.2/25

All:  $-1037.170 \pm 238.401$   $\chi^2/\text{NDF}$ : 61.8/51

- sign  $-860.152 \pm 336.063$   $\chi^2/\text{NDF}$ : 14.0/25

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In: 1315.784+/-0.377  $\chi^2/\text{NDF}$ : 1118346.6/16

Left Out: 1112.180+/-0.309  $\chi^2/\text{NDF}$ : 384222.6/8

Right Out: 1224.149+/-0.342  $\chi^2/\text{NDF}$ : 1363902.7/18

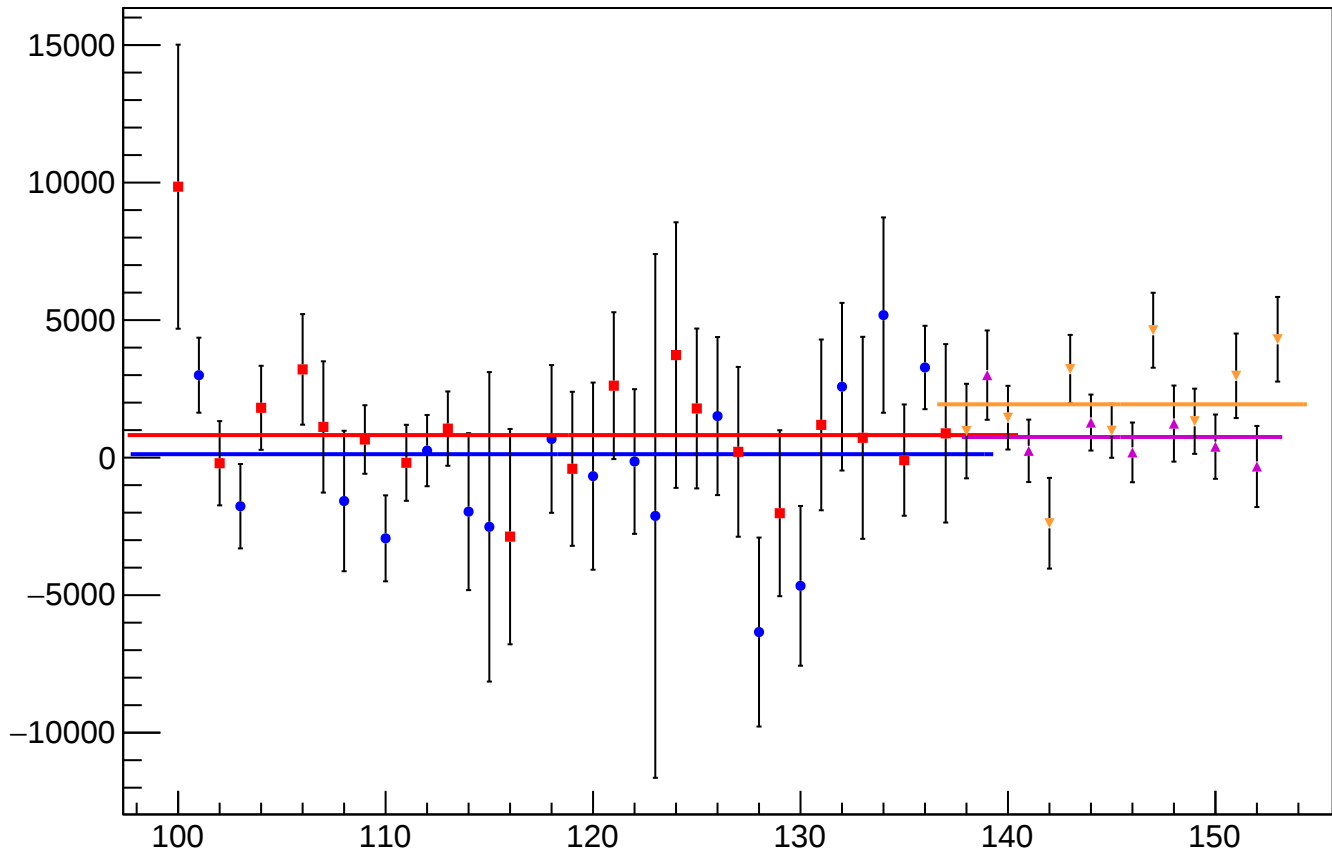
Left In: 1110.861+/-0.330  $\chi^2/\text{NDF}$ : 231744.8/6

+ sign 1194.128+/-0.239  $\chi^2/\text{NDF}$ : 1676841.9/25

All: 1179.674+/-0.169  $\chi^2/\text{NDF}$ : 3336488.0/51

- sign 1165.406+/-0.238  $\chi^2/\text{NDF}$ : 1652389.1/25

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1939.043 $\pm$ 437.241  $\chi^2$ /NDF:16.4/8

Right Out: 820.213 $\pm$ 484.659  $\chi^2$ /NDF: 9.1/18

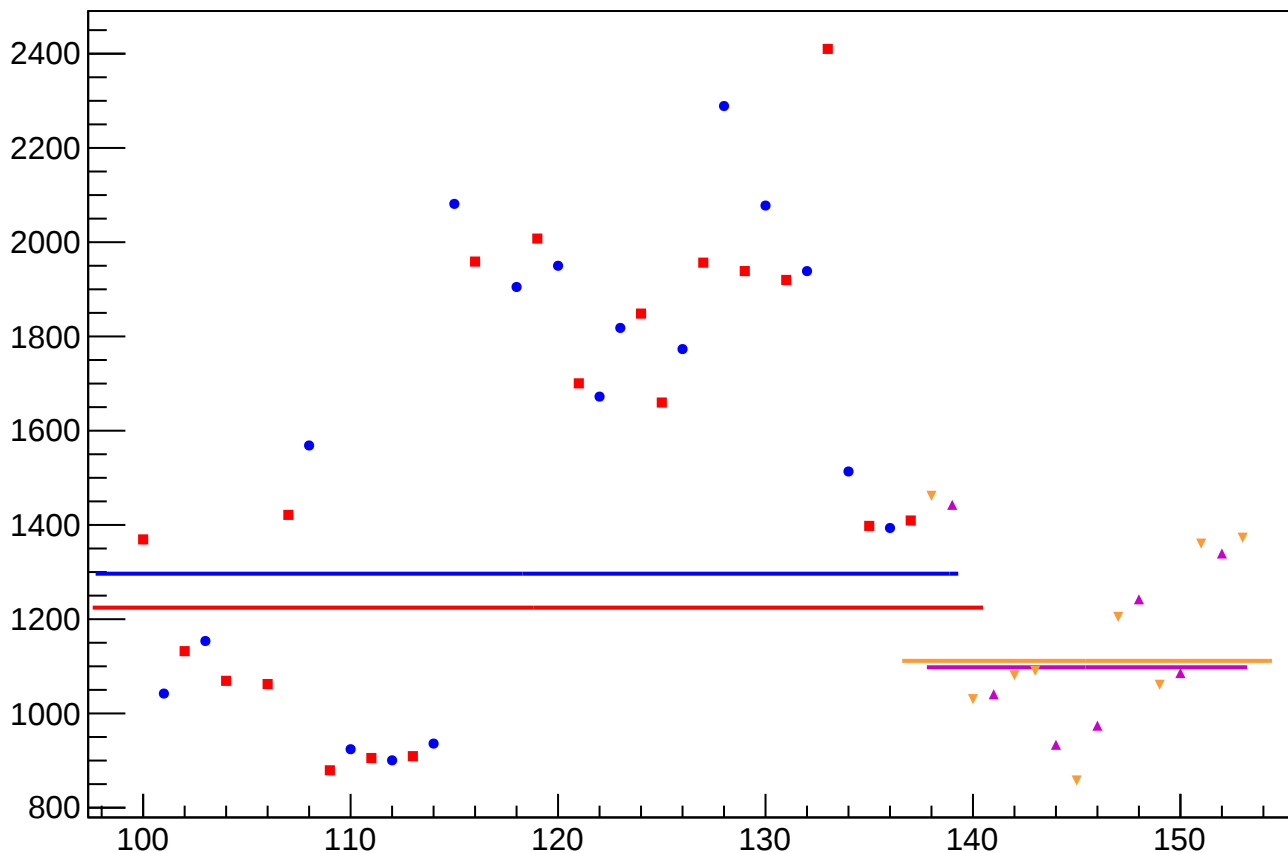
Left In: 749.891 $\pm$ 462.082  $\chi^2$ /NDF:3.4/6

+ sign 1199.258 $\pm$ 336.450  $\chi^2$ /NDF: 48.0/25

All: 990.070 $\pm$ 237.192  $\chi^2$ /NDF: 61.3/51

- sign 783.376 $\pm$ 334.438  $\chi^2$ /NDF: 12.5/25

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1296.573+/-0.373  $\chi^2/\text{NDF}$ : 1175465.2/16

Left Out: 1111.590+/-0.309  $\chi^2/\text{NDF}$ : 350676.0/8

Right Out: 1224.561+/-0.343  $\chi^2/\text{NDF}$ : 1348274.4/18

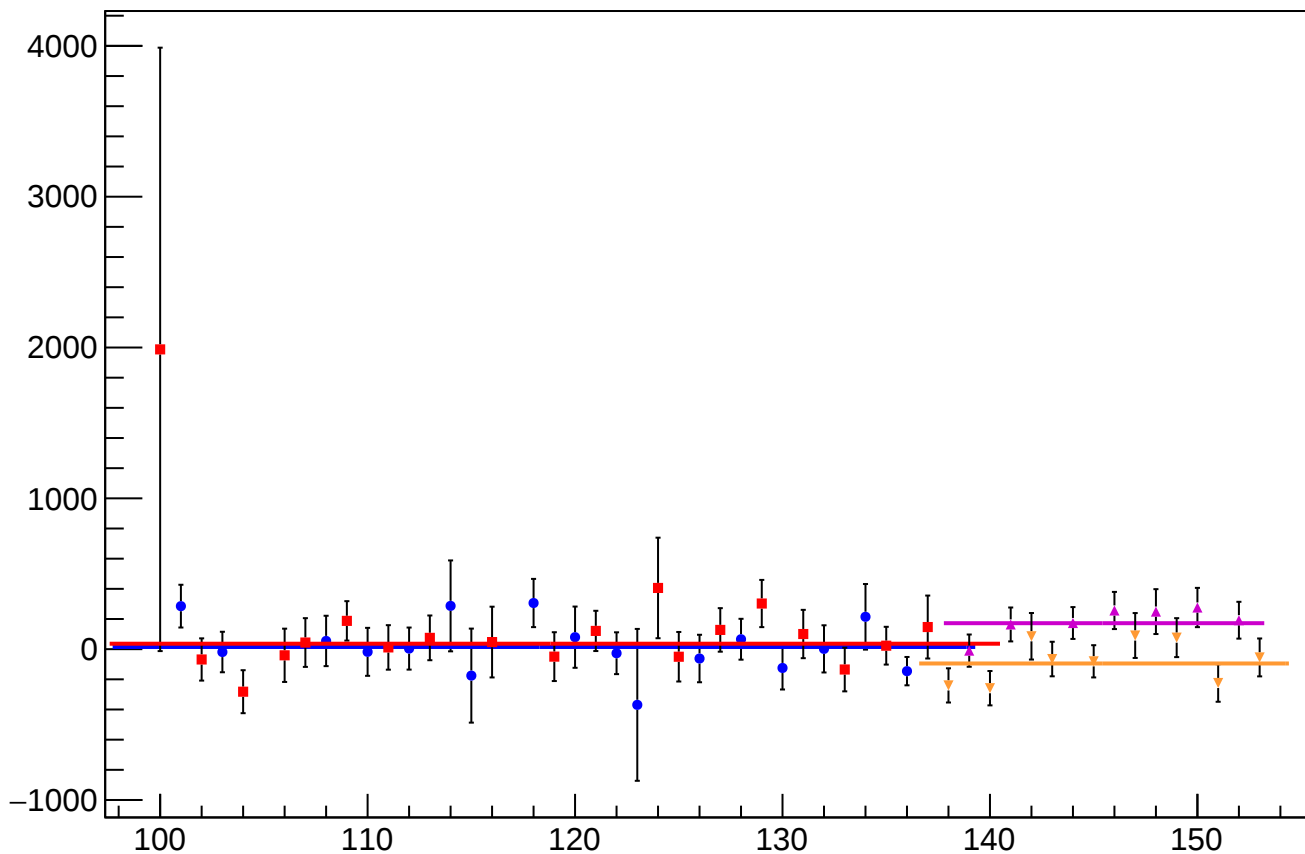
Left In: 1097.988+/-0.327  $\chi^2/\text{NDF}$ : 249133.9/6

+ sign 1187.044+/-0.238  $\chi^2/\text{NDF}$ : 1672156.8/25

All: 1172.564+/-0.168  $\chi^2/\text{NDF}$ : 3348384.6/51

- sign 1158.258+/-0.236  $\chi^2/\text{NDF}$ : 1668863.4/25

# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 14.577 $\pm$ 38.017  $\chi^2$ /NDF: 14.2/16

Left Out: -94.909 $\pm$ 41.038  $\chi^2$ /NDF: 9.7/8

Right Out: 36.133 $\pm$ 36.722  $\chi^2$ /NDF: 15.5/18

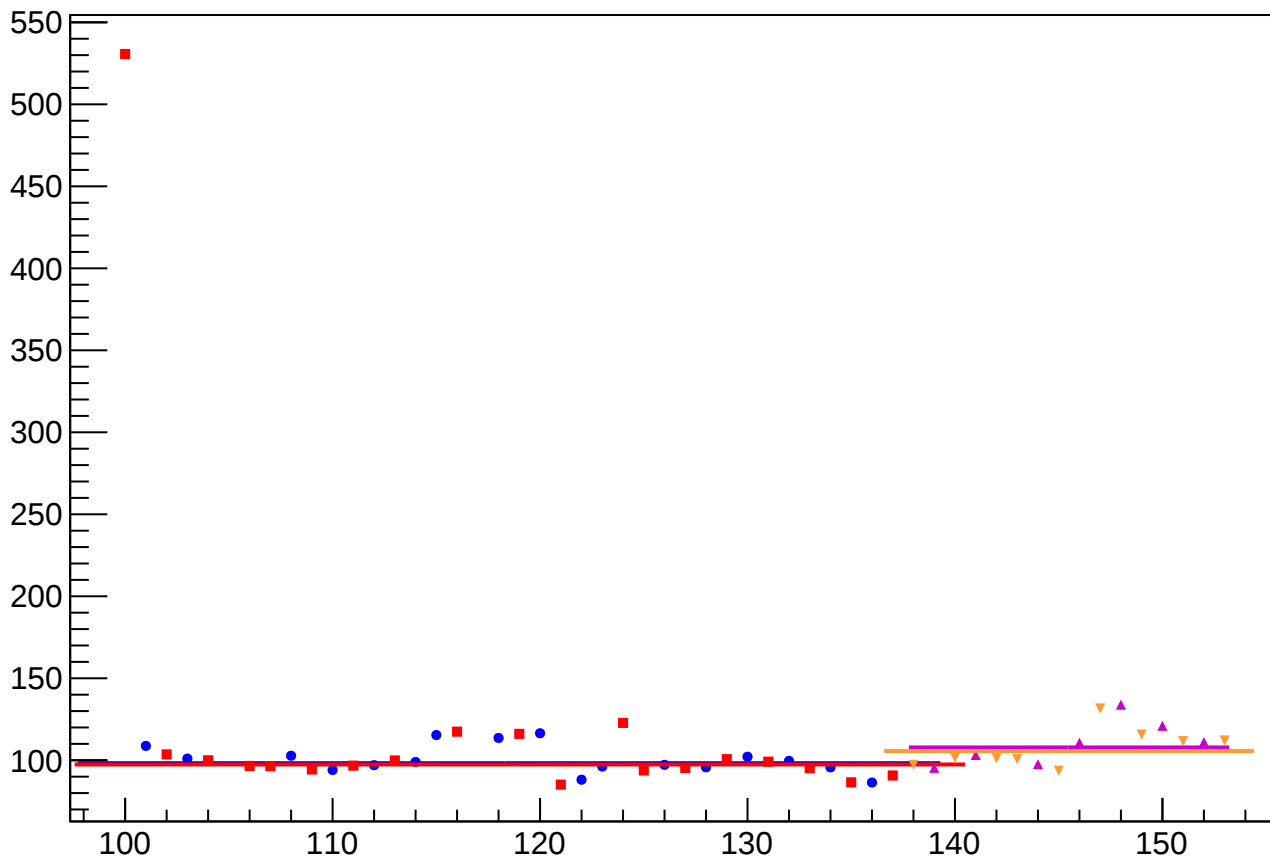
Left In: 172.231 $\pm$ 45.010  $\chi^2$ /NDF: 4.3/6

+ sign -35.989 $\pm$ 27.889  $\chi^2$ /NDF: 27.7/25

All: 25.998 $\pm$ 19.917  $\chi^2$ /NDF: 63.0/51

- sign 90.520 $\pm$ 28.453  $\chi^2$ /NDF: 25.3/25

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 98.219+/-0.027  $\chi^2/\text{NDF}$ : 100510.4/16

Left Out: 105.613+/-0.029  $\chi^2/\text{NDF}$ :126997.8/8

Right Out: 97.436+/-0.026  $\chi^2/\text{NDF}$ : 190066.6/18

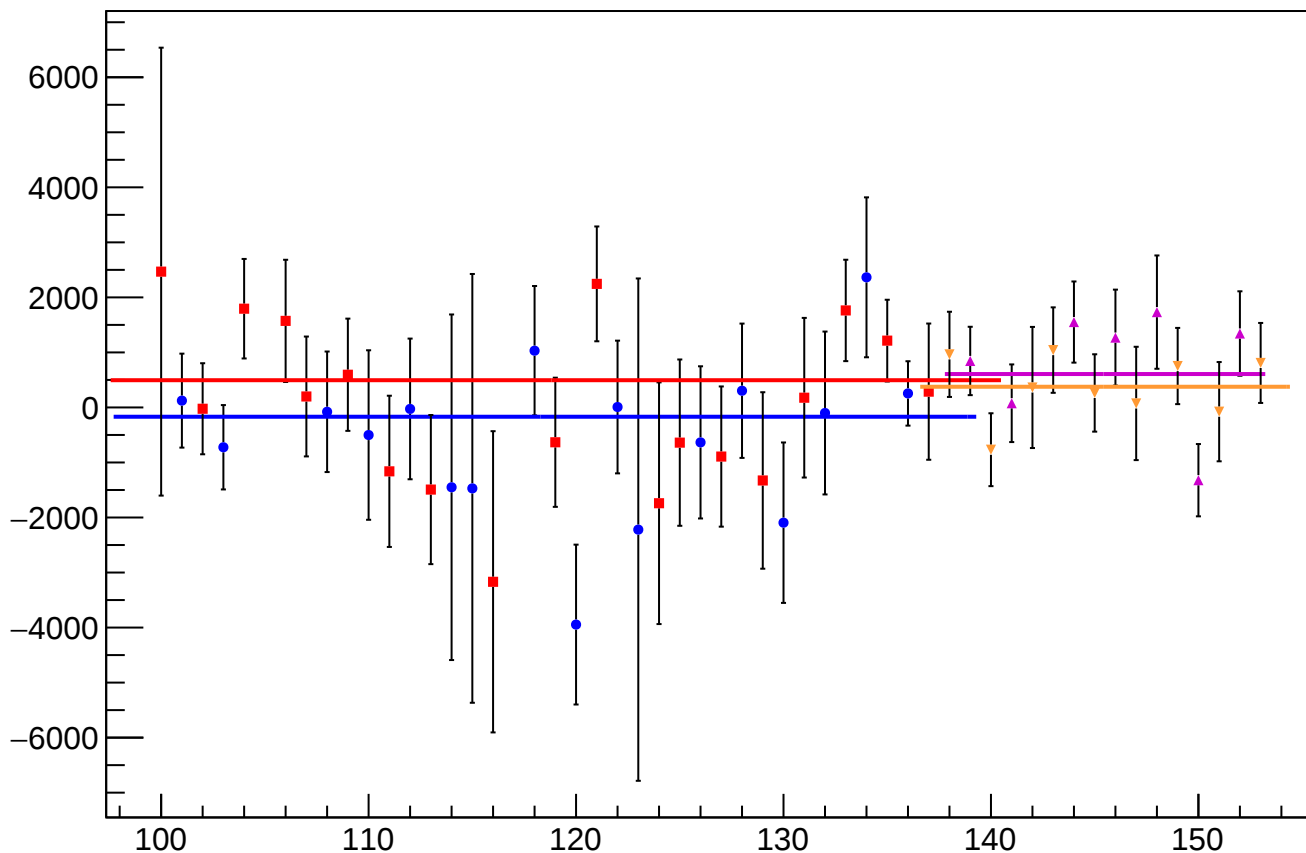
Left In: 107.841+/-0.032  $\chi^2/\text{NDF}$ :133516.6/6

+ sign 101.634+/-0.020  $\chi^2/\text{NDF}$ : 262452.2/25

All: 101.615+/-0.014  $\chi^2/\text{NDF}$ : 650203.3/51

- sign 101.594+/-0.020  $\chi^2/\text{NDF}$ : 387749.1/25

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In:  $-168.802 \pm 282.178$   $\chi^2/\text{NDF}$ : 14.6/16

Left Out:  $376.081 \pm 261.644$   $\chi^2/\text{NDF}$ : 5.3/8

Right Out:  $494.868 \pm 267.430$   $\chi^2/\text{NDF}$ : 19.8/18

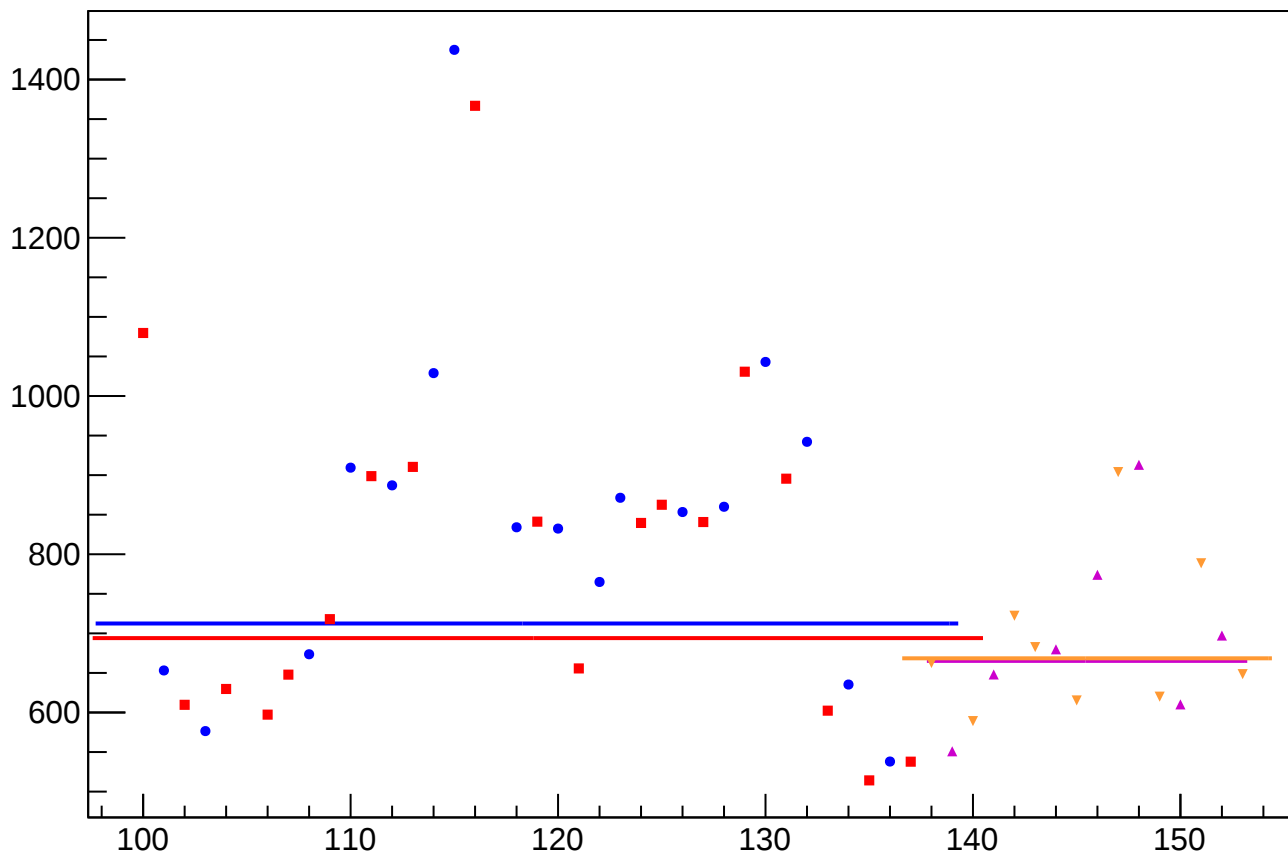
Left In:  $607.143 \pm 280.434$   $\chi^2/\text{NDF}$ : 13.7/6

+ sign  $124.184 \pm 191.859$   $\chi^2/\text{NDF}$ : 21.9/25

All:  $334.418 \pm 136.254$   $\chi^2/\text{NDF}$ : 57.9/51

- sign  $548.342 \pm 193.536$   $\chi^2/\text{NDF}$ : 33.6/25

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 712.476 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 660520.6/16

Left Out: 668.473 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 197072.3/8

Right Out: 694.014 $\pm$ 0.189  $\chi^2/\text{NDF}$ : 674989.2/18

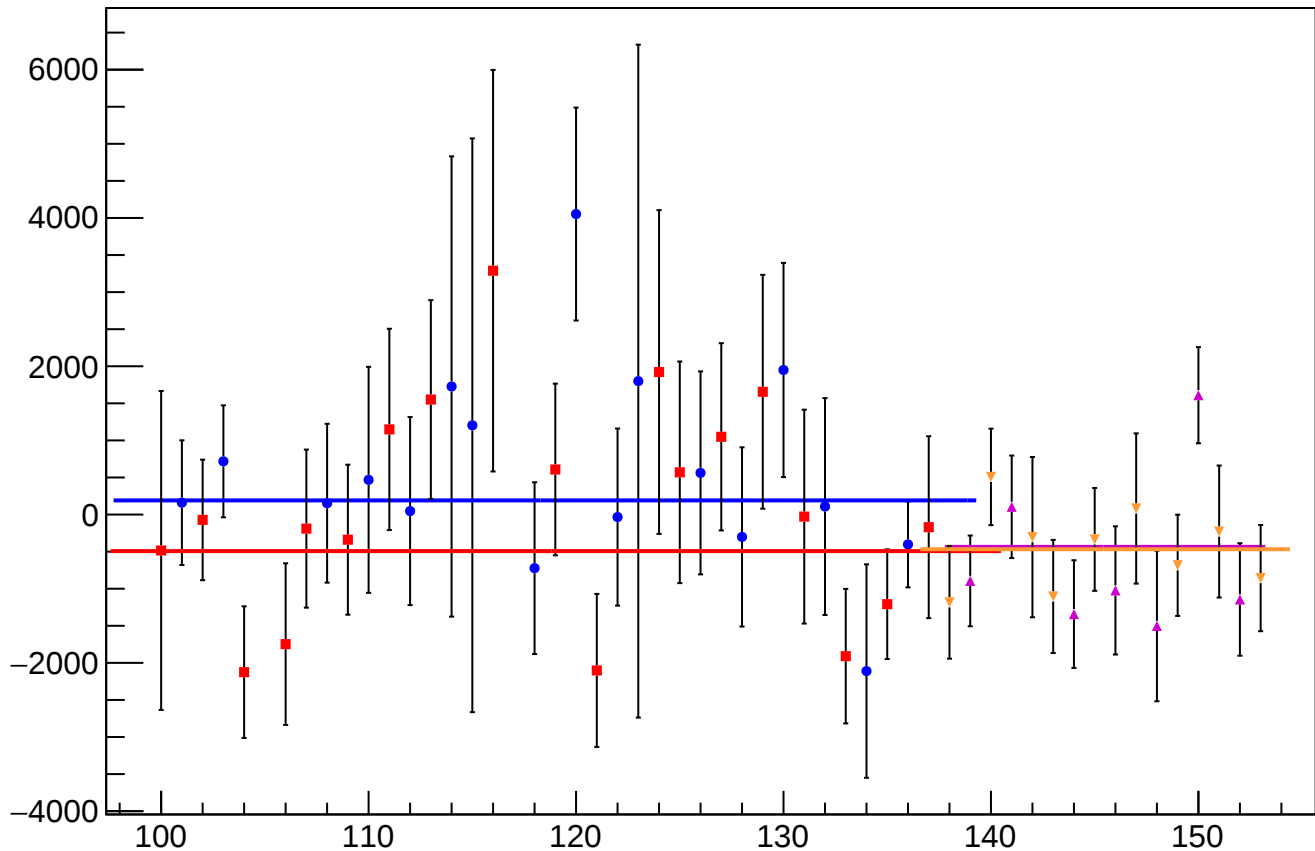
Left In: 665.236 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 234187.2/6

+ sign 688.816 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 883743.3/25

All: 684.599 $\pm$ 0.096  $\chi^2/\text{NDF}$ : 1805899.7/51

- sign 680.308 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 920207.2/25

# asym\_sam\_15\_dd\_mean vs Slug



Right In:  $190.880 \pm 278.670$   $\chi^2/\text{NDF}$ : 14.2/16

Left Out:  $-467.552 \pm 257.510$   $\chi^2/\text{NDF}$ : 4.7/8

Right Out:  $-492.659 \pm 262.648$   $\chi^2/\text{NDF}$ : 22.8/18

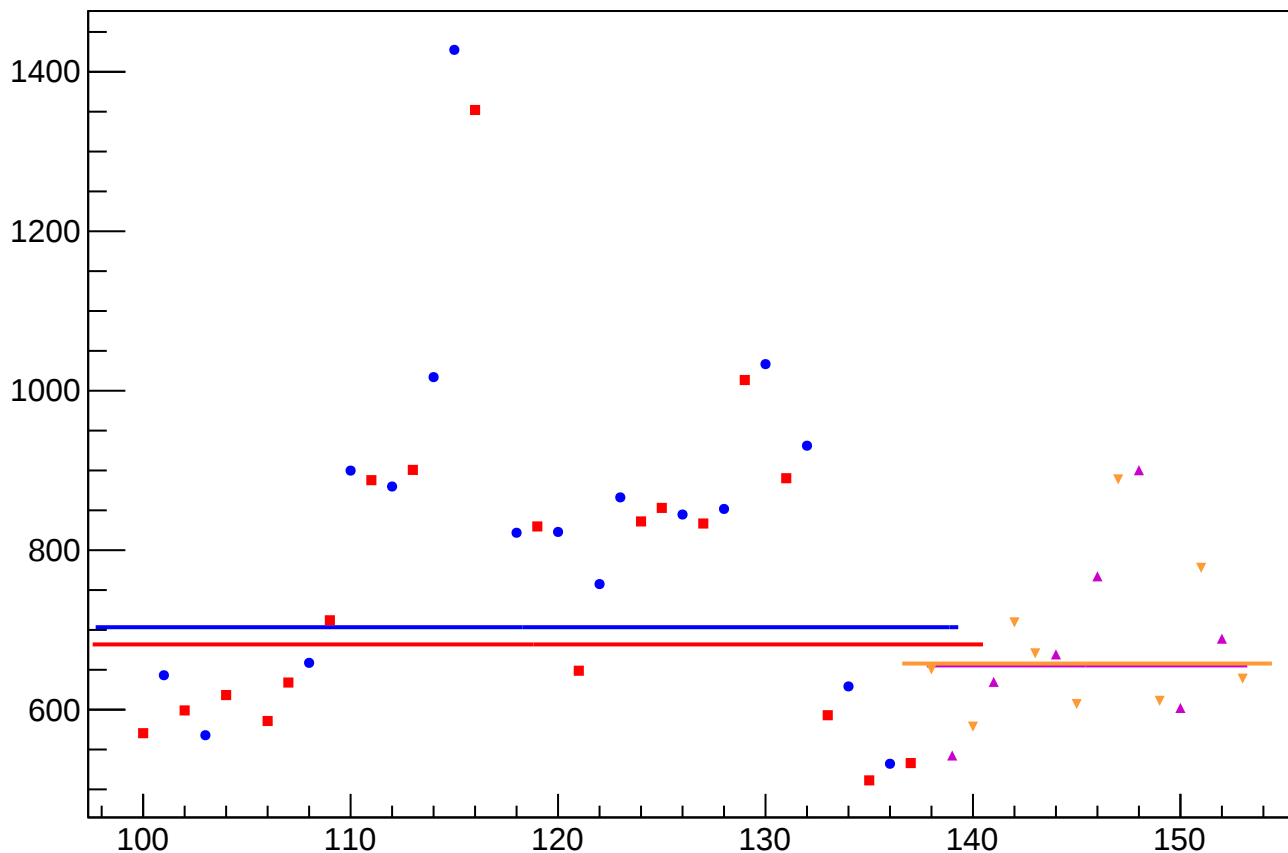
Left In:  $-435.696 \pm 276.396$   $\chi^2/\text{NDF}$ : 15.1/6

+ sign  $-164.281 \pm 189.126$   $\chi^2/\text{NDF}$ : 21.9/25

All:  $-313.947 \pm 134.179$   $\chi^2/\text{NDF}$ : 61.1/51

- sign  $-465.629 \pm 190.395$   $\chi^2/\text{NDF}$ : 37.9/25

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 703.406 $\pm$ 0.197  $\chi^2$ /NDF: 666885.8/16

Left Out: 657.842 $\pm$ 0.182  $\chi^2$ /NDF:196789.2/8

Right Out: 681.807 $\pm$ 0.186  $\chi^2$ /NDF: 664797.9/18

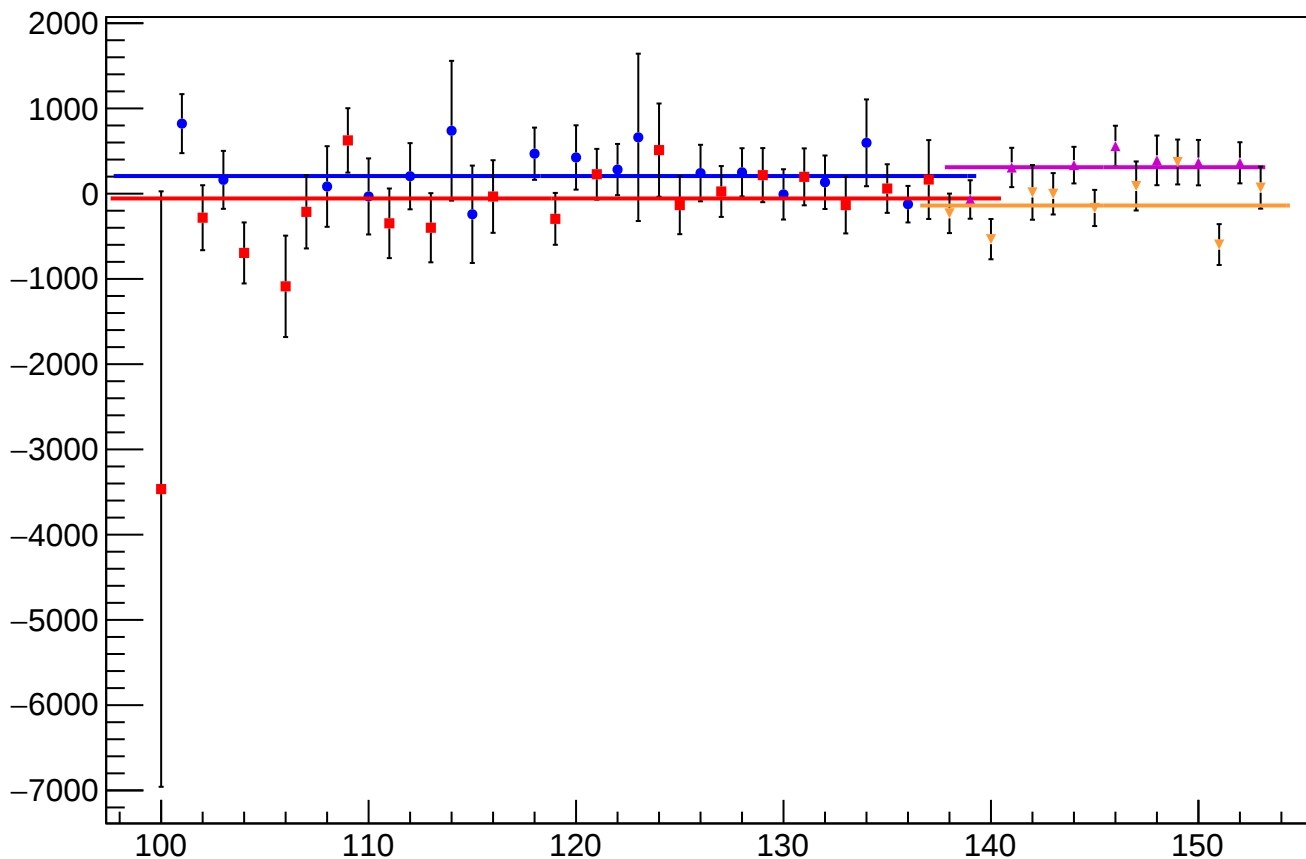
Left In: 655.454 $\pm$ 0.195  $\chi^2$ /NDF:237861.0/6

+ sign 678.829 $\pm$ 0.134  $\chi^2$ /NDF: 892516.0/25

All: 674.097 $\pm$ 0.095  $\chi^2$ /NDF: 1807249.0/51

- sign 669.302 $\pm$ 0.135  $\chi^2$ /NDF: 912212.7/25

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 206.874 $\pm$ 85.632  $\chi^2$ /NDF: 9.5/16

Left Out: -138.825 $\pm$ 82.798  $\chi^2$ /NDF:12.3/8

Right Out: -56.213 $\pm$ 85.167  $\chi^2$ /NDF: 16.6/18

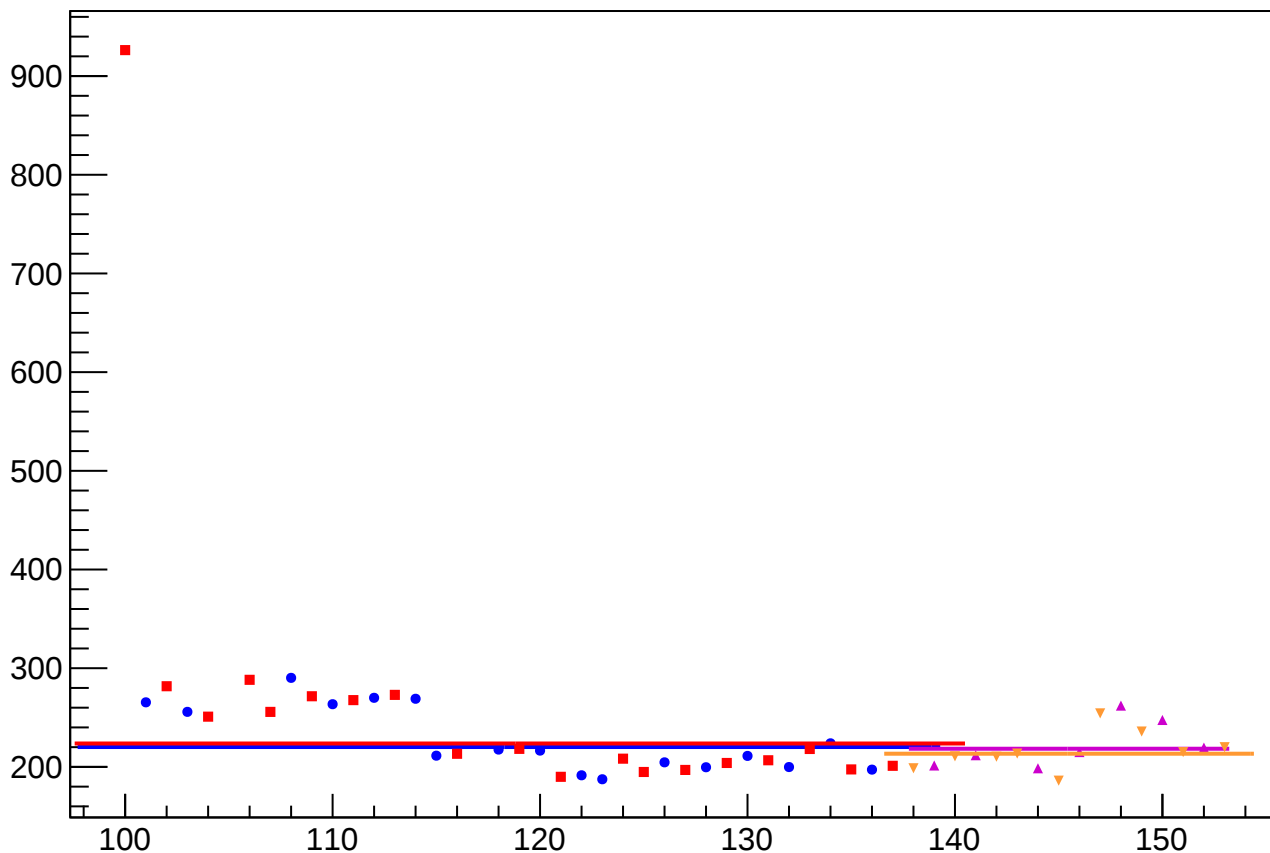
Left In: 310.191 $\pm$ 90.997  $\chi^2$ /NDF:4.1/6

+ sign 28.209 $\pm$ 59.523  $\chi^2$ /NDF: 30.2/25

All: 69.651 $\pm$ 42.998  $\chi^2$ /NDF: 60.6/51

- sign 114.876 $\pm$ 62.181  $\chi^2$ /NDF: 29.3/25

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 220.133 $\pm$ 0.061  $\chi^2$ /NDF: 228444.0/16

Left Out: 213.355 $\pm$ 0.059  $\chi^2$ /NDF: 98151.7/8

Right Out: 223.705 $\pm$ 0.060  $\chi^2$ /NDF: 353242.3/18

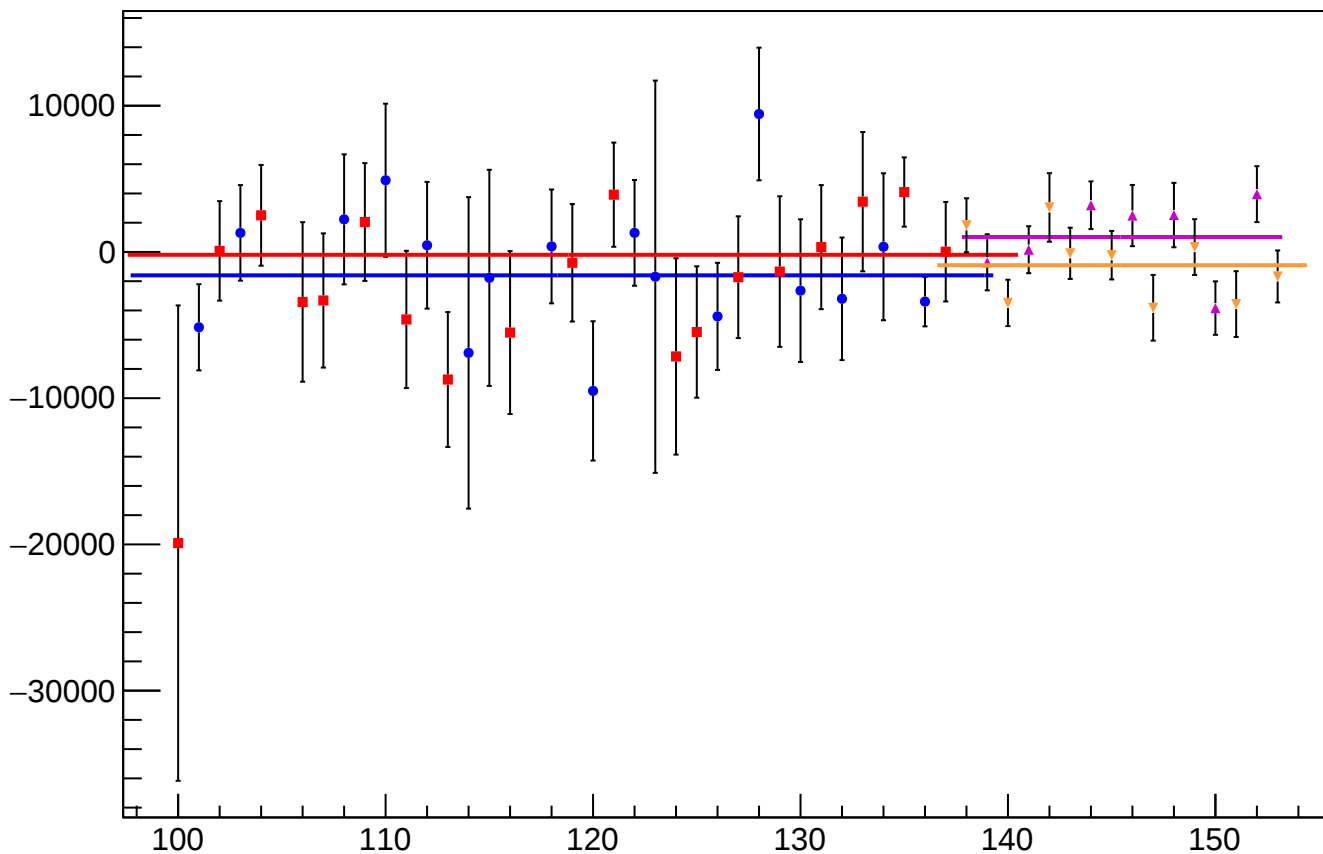
Left In: 218.402 $\pm$ 0.064  $\chi^2$ /NDF: 99412.6/6

+ sign 216.630 $\pm$ 0.042  $\chi^2$ /NDF: 333070.3/25

All: 218.829 $\pm$ 0.030  $\chi^2$ /NDF: 795055.8/51

- sign 221.229 $\pm$ 0.044  $\chi^2$ /NDF: 456276.0/25

# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In:  $-1599.045 \pm 921.042$   $\chi^2/\text{NDF}$ : 16.6/16

Left Out:  $-904.773 \pm 626.130$   $\chi^2/\text{NDF}$ : 11.7/8

Right Out:  $-194.970 \pm 947.480$   $\chi^2/\text{NDF}$ : 16.3/18

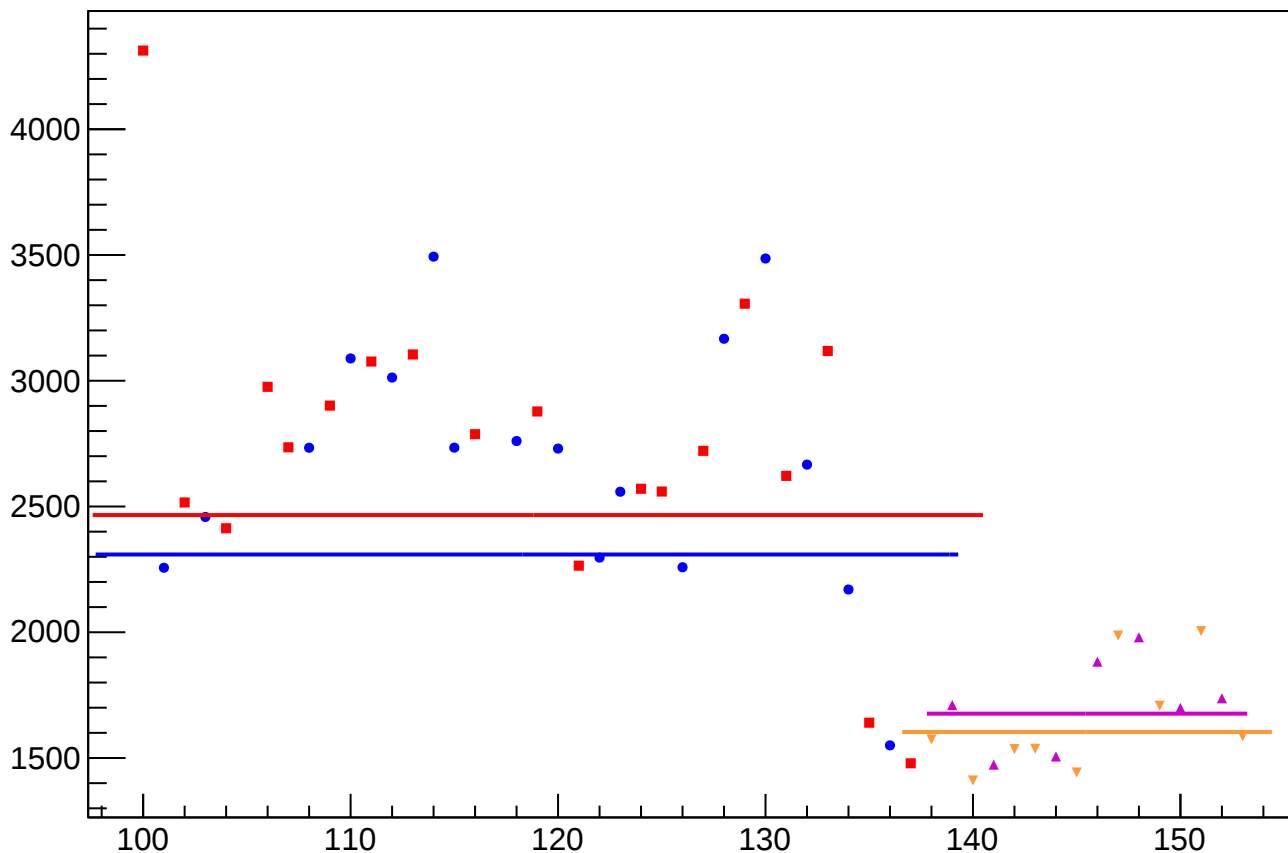
Left In:  $1022.197 \pm 699.826$   $\chi^2/\text{NDF}$ : 13.3/6

+ sign  $-1124.211 \pm 517.810$   $\chi^2/\text{NDF}$ : 28.8/25

All:  $-337.363 \pm 381.099$   $\chi^2/\text{NDF}$ : 64.4/51

- sign  $592.557 \pm 562.921$   $\chi^2/\text{NDF}$ : 30.6/25

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2309.132+/-0.651  $\chi^2/\text{NDF}$ : 800728.2/16

Left Out: 1603.437+/-0.443  $\chi^2/\text{NDF}$ : 181602.4/8

Right Out: 2465.900+/-0.670  $\chi^2/\text{NDF}$ : 694086.3/18

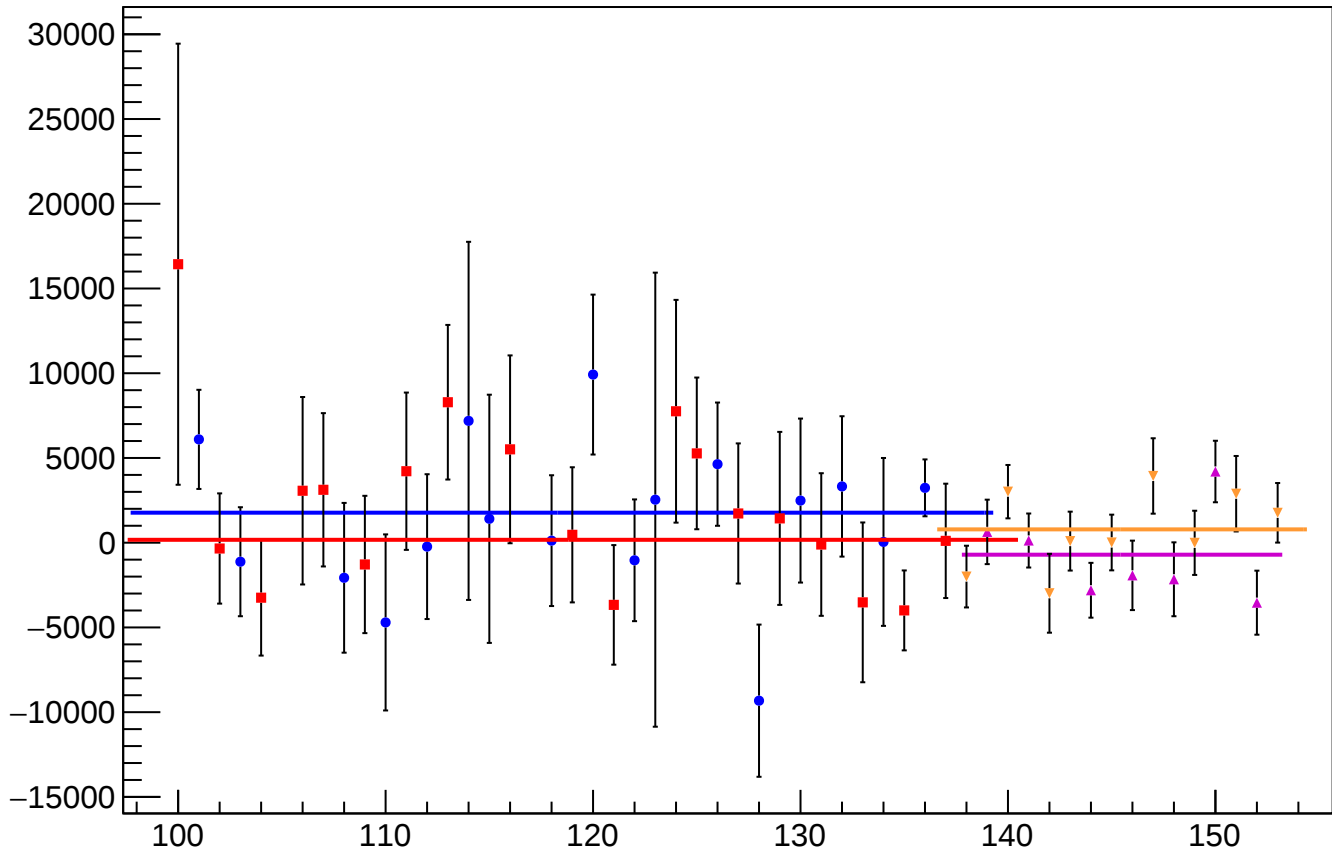
Left In: 1676.391+/-0.495  $\chi^2/\text{NDF}$ : 114074.7/6

+ sign 1826.486+/-0.366  $\chi^2/\text{NDF}$ : 1785332.8/25

All: 1885.422+/-0.269  $\chi^2/\text{NDF}$ : 3548523.4/51

- sign 1955.075+/-0.398  $\chi^2/\text{NDF}$ : 1706660.6/25

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1771.279 $\pm$ 912.328  $\chi^2$ /NDF: 17.3/16

Left Out: 786.526 $\pm$ 620.533  $\chi^2$ /NDF:10.7/8

Right Out: 170.902 $\pm$ 937.411  $\chi^2$ /NDF: 16.0/18

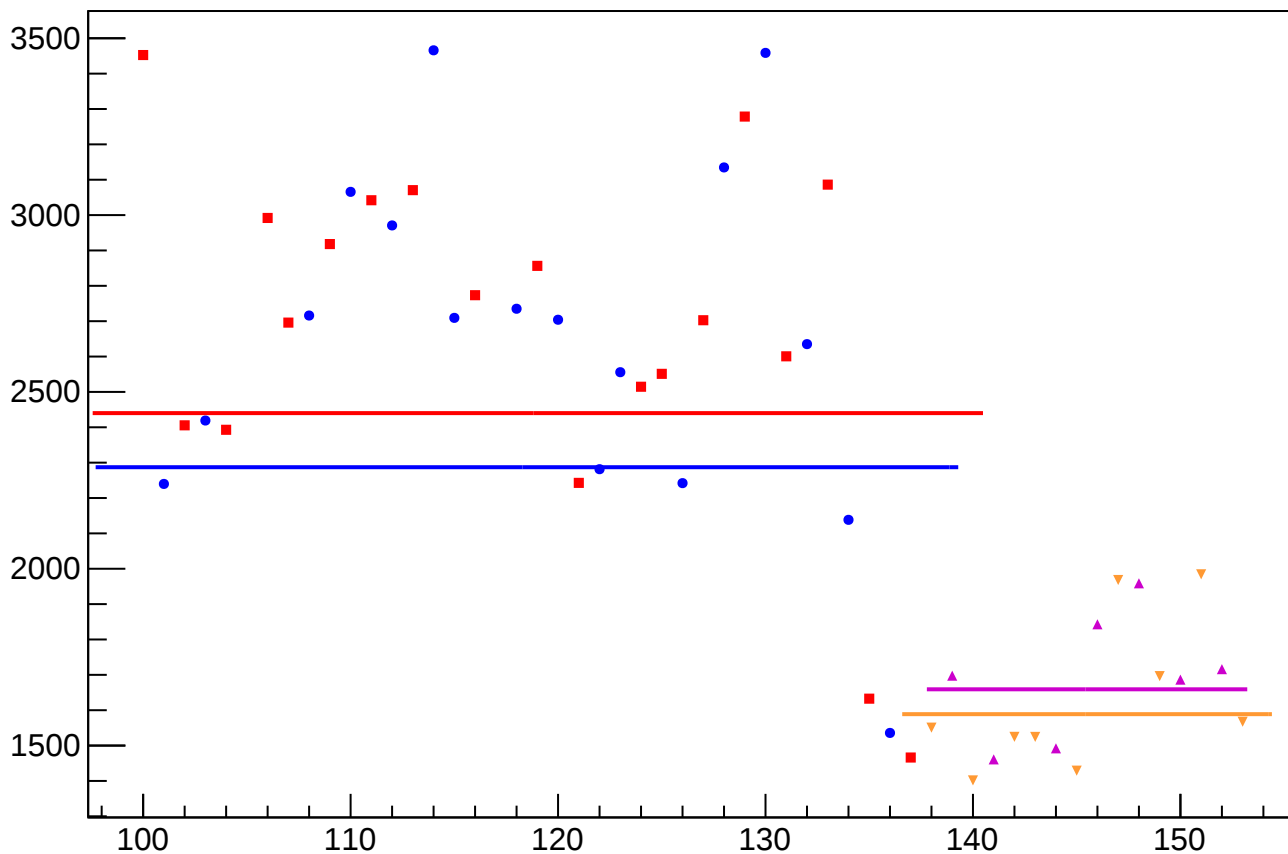
Left In: -707.665 $\pm$ 692.539  $\chi^2$ /NDF:12.8/6

+ sign 1098.001 $\pm$ 513.096  $\chi^2$ /NDF: 28.9/25

All: 411.547 $\pm$ 377.387  $\chi^2$ /NDF: 62.2/51

- sign -397.457 $\pm$ 557.017  $\chi^2$ /NDF: 29.4/25

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1588.833+/-0.439  $\chi^2/\text{NDF}$ :180236.0/8

Right Out: 2440.067+/-0.663  $\chi^2/\text{NDF}$ : 679108.5/18

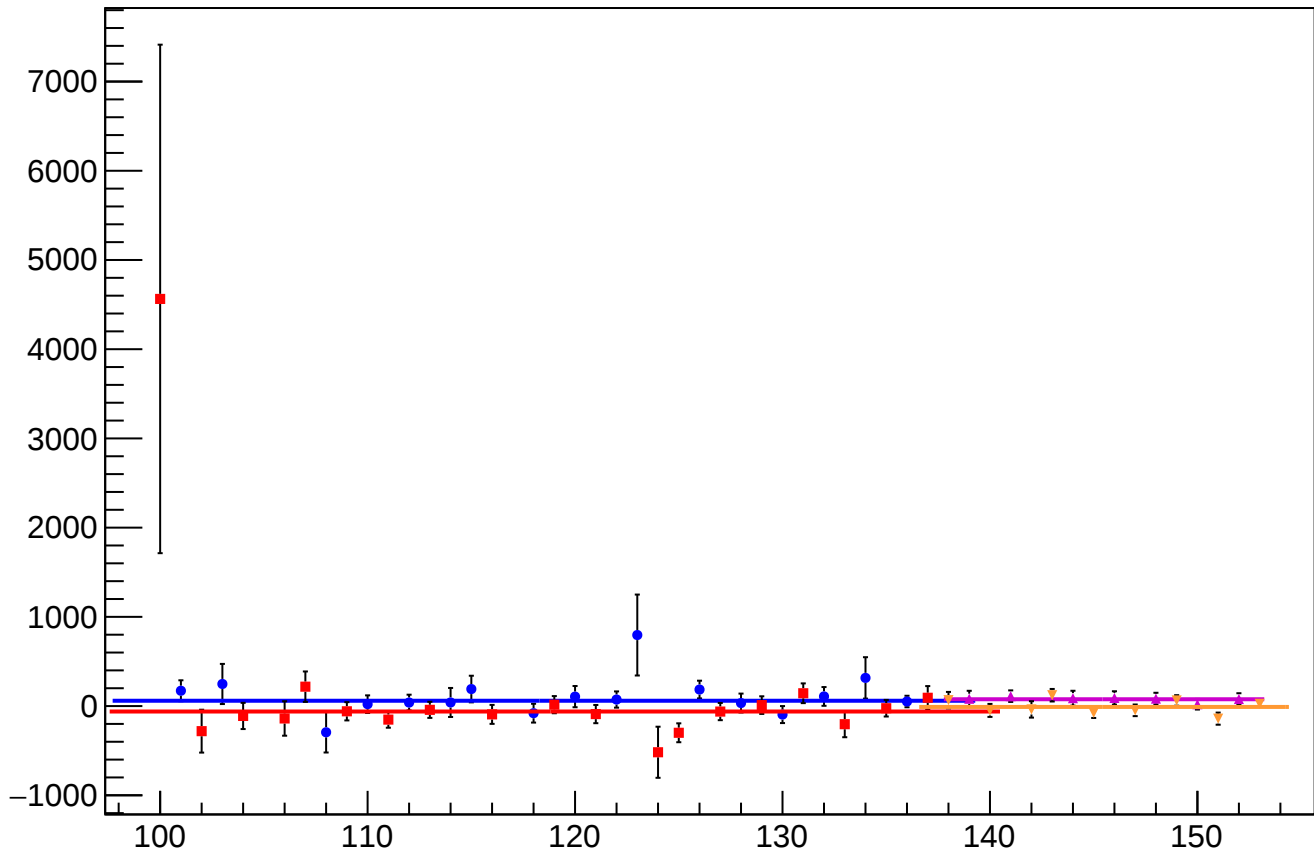
Left In: 1659.099+/-0.490  $\chi^2/\text{NDF}$ :109225.3/6

+ sign 1809.694+/-0.363  $\chi^2/\text{NDF}$ : 1780649.6/25

All: 1867.142+/-0.267  $\chi^2/\text{NDF}$ : 3521620.6/51

- sign 1934.846+/-0.394  $\chi^2/\text{NDF}$ : 1686351.5/25

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 59.656+/-27.080  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: -9.707+/-22.376  $\chi^2/\text{NDF}$ : 11.9/8

Right Out: -60.983+/-27.009  $\chi^2/\text{NDF}$ : 22.3/18

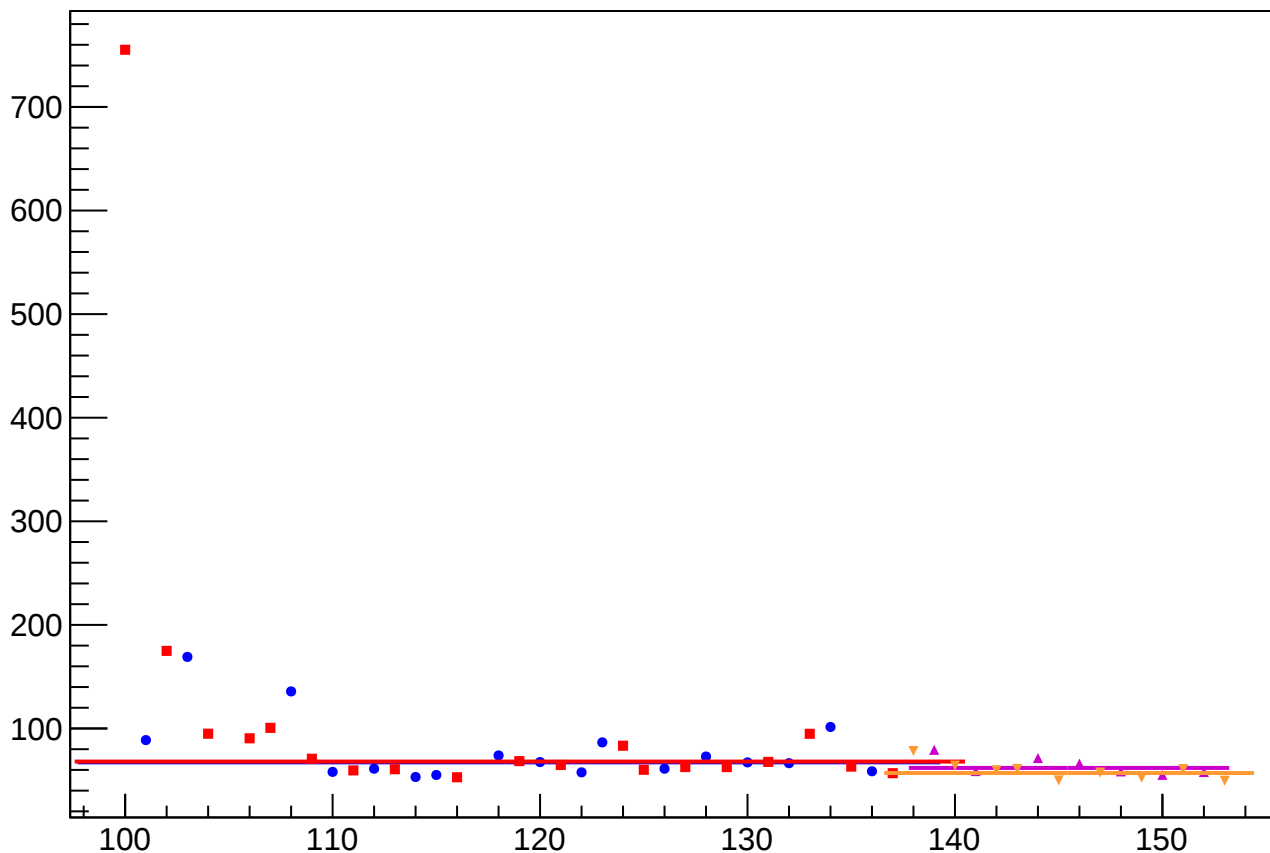
Left In: 76.445+/-26.323  $\chi^2/\text{NDF}$ : 1.2/6

+ sign 18.436+/-17.249  $\chi^2/\text{NDF}$ : 31.1/25

All: 14.364+/-12.726  $\chi^2/\text{NDF}$ : 68.1/51

- sign 9.499+/-18.851  $\chi^2/\text{NDF}$ : 36.8/25

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 67.297 $\pm$ 0.019  $\chi^2$ /NDF: 841352.2/16

Left Out: 57.006 $\pm$ 0.016  $\chi^2$ /NDF: 219374.2/8

Right Out: 68.060 $\pm$ 0.019  $\chi^2$ /NDF: 870616.5/18

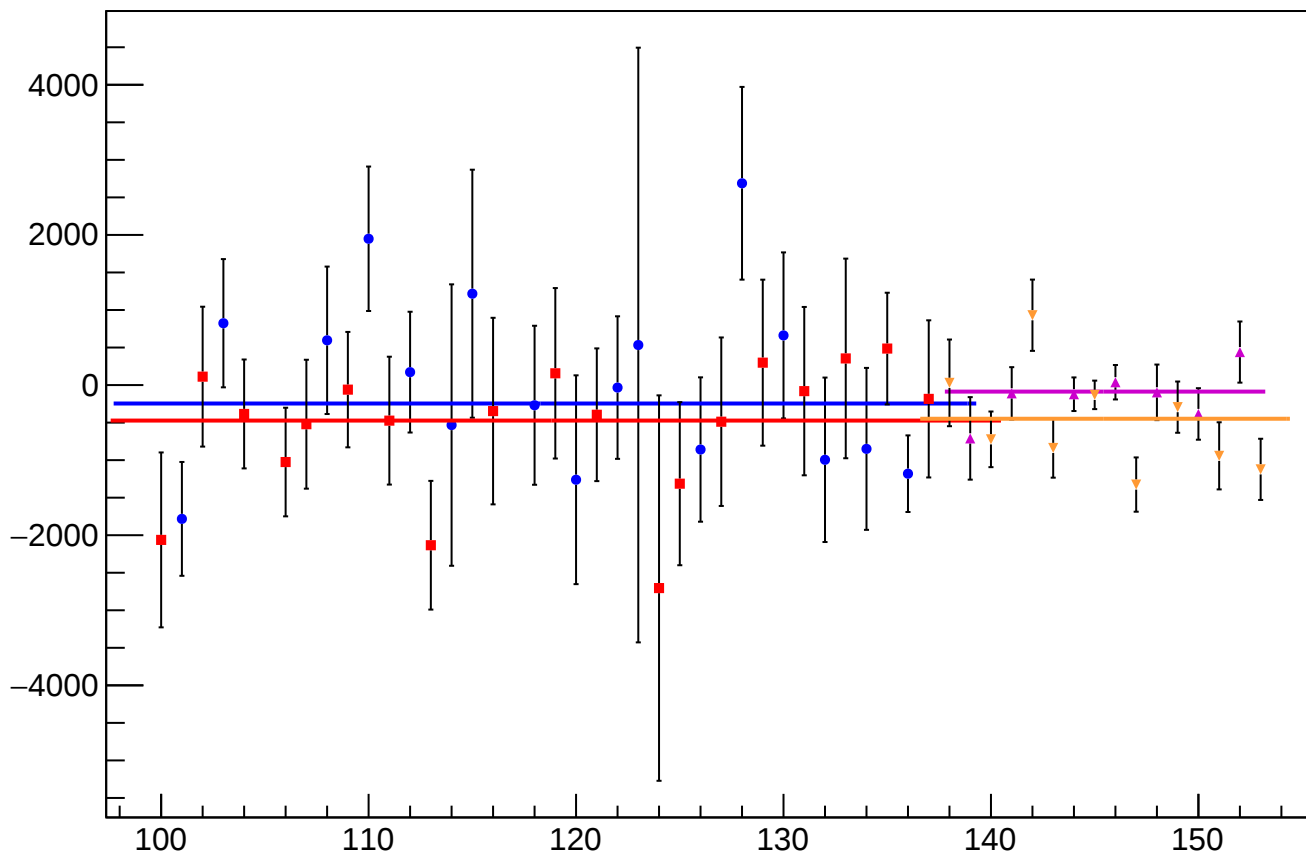
Left In: 61.916 $\pm$ 0.019  $\chi^2$ /NDF: 151249.4/6

+ sign 61.181 $\pm$ 0.012  $\chi^2$ /NDF: 1232370.7/25

All: 62.880 $\pm$ 0.009  $\chi^2$ /NDF: 2349874.0/51

- sign 64.909 $\pm$ 0.013  $\chi^2$ /NDF: 1074944.1/25

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In: -245.631 $\pm$ 235.404  $\chi^2$ /NDF: 23.8/16

Left Out: -448.672 $\pm$ 114.611  $\chi^2$ /NDF: 23.5/8

Right Out: -472.860 $\pm$ 218.823  $\chi^2$ /NDF: 11.3/18

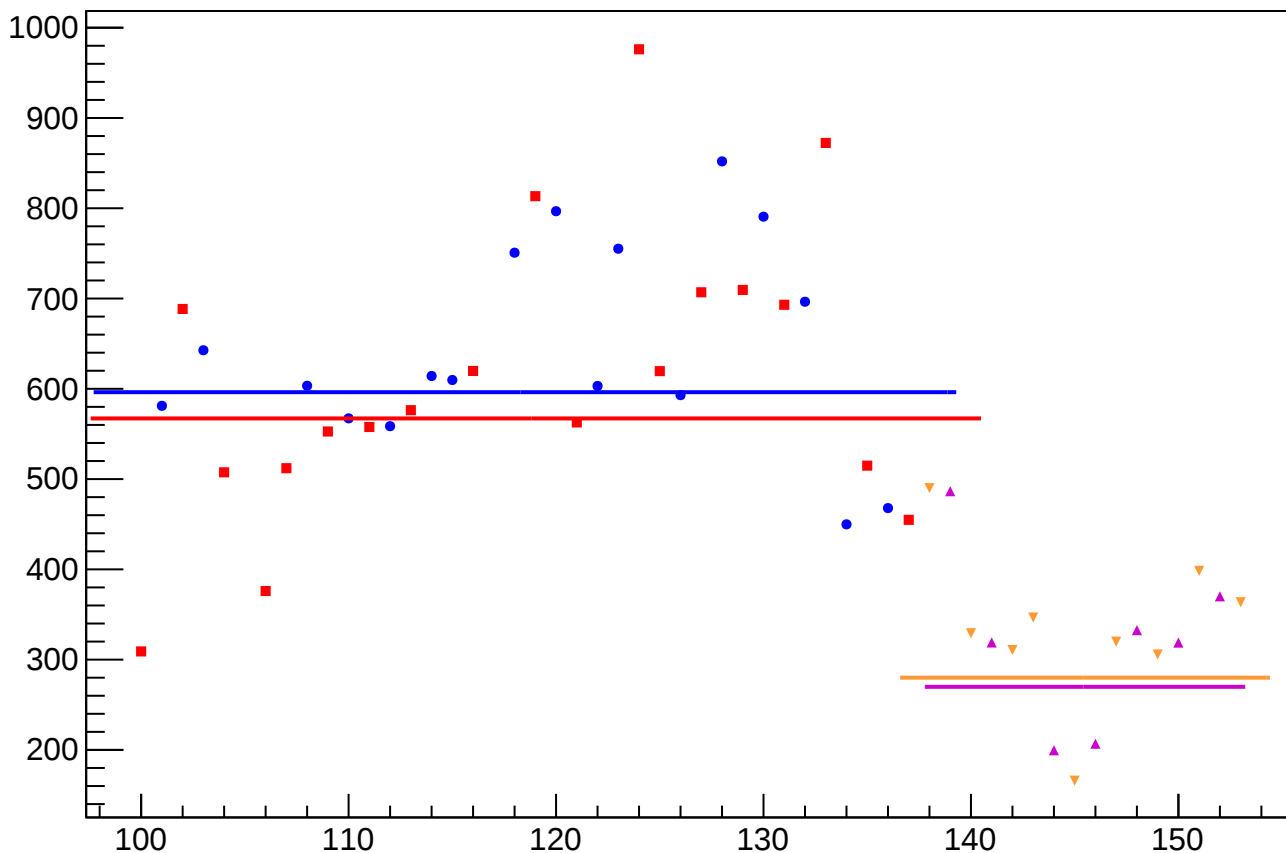
Left In: -87.065 $\pm$ 117.576  $\chi^2$ /NDF: 4.0/6

+ sign -409.765 $\pm$ 103.047  $\chi^2$ /NDF: 47.8/25

All: -292.230 $\pm$ 73.050  $\chi^2$ /NDF: 68.2/51

- sign -173.493 $\pm$ 103.572  $\chi^2$ /NDF: 17.8/25

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 596.246+/-0.166  $\chi^2/\text{NDF}$ : 422153.3/16

Left Out: 280.027+/-0.081  $\chi^2/\text{NDF}$ :1347612.7/8

Right Out: 567.177+/-0.155  $\chi^2/\text{NDF}$ : 675391.6/18

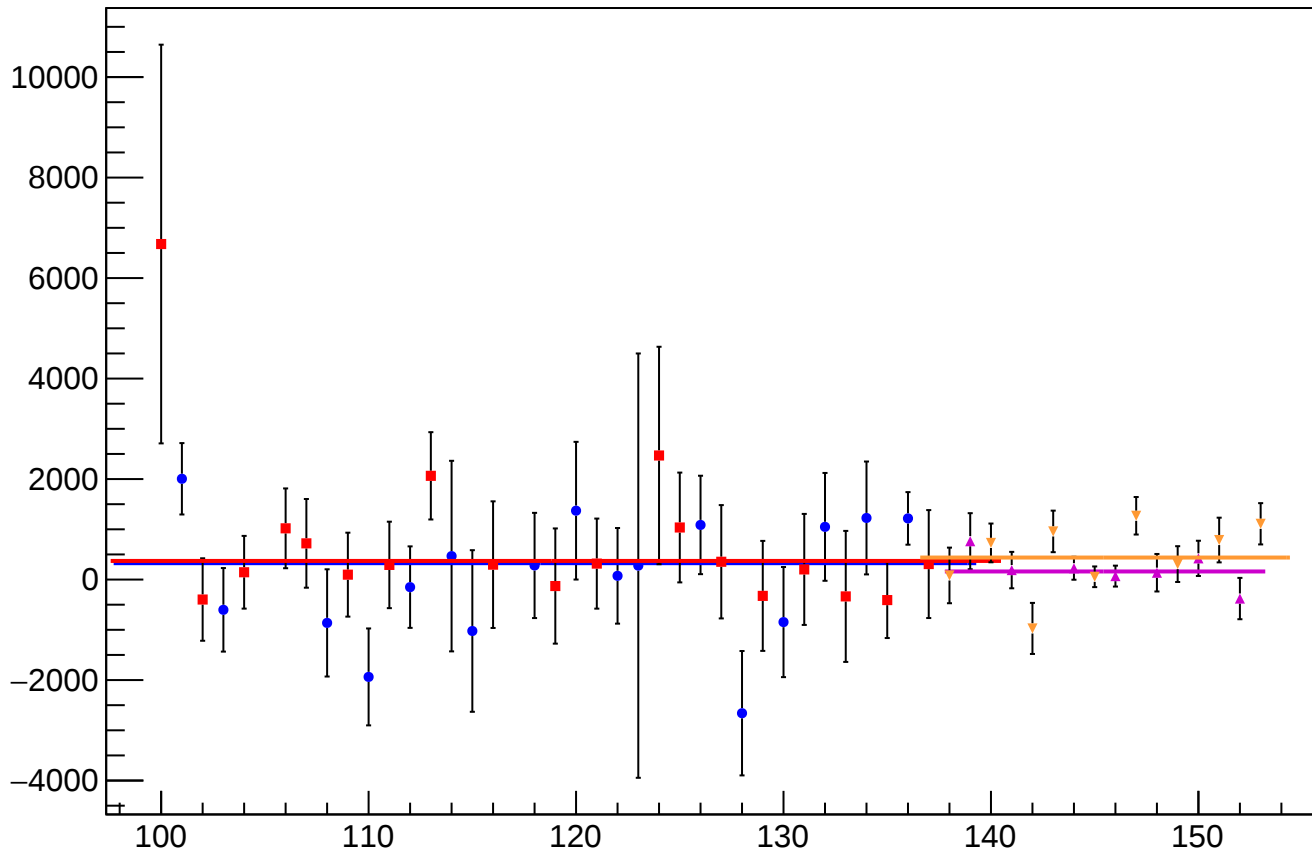
Left In: 269.879+/-0.083  $\chi^2/\text{NDF}$ :918178.9/6

+ sign 340.621+/-0.073  $\chi^2/\text{NDF}$ : 4687142.0/25

All: 338.562+/-0.052  $\chi^2/\text{NDF}$ : 9146977.4/51

- sign 336.482+/-0.073  $\chi^2/\text{NDF}$ : 4458230.1/25

# asym\_sam\_37\_dd\_mean vs Slug



Right In: 326.077 $\pm$ 235.599  $\chi^2$ /NDF: 26.9/16

Left Out: 438.218 $\pm$ 120.046  $\chi^2$ /NDF: 22.1/8

Right Out: 370.721 $\pm$ 224.892  $\chi^2$ /NDF: 11.5/18

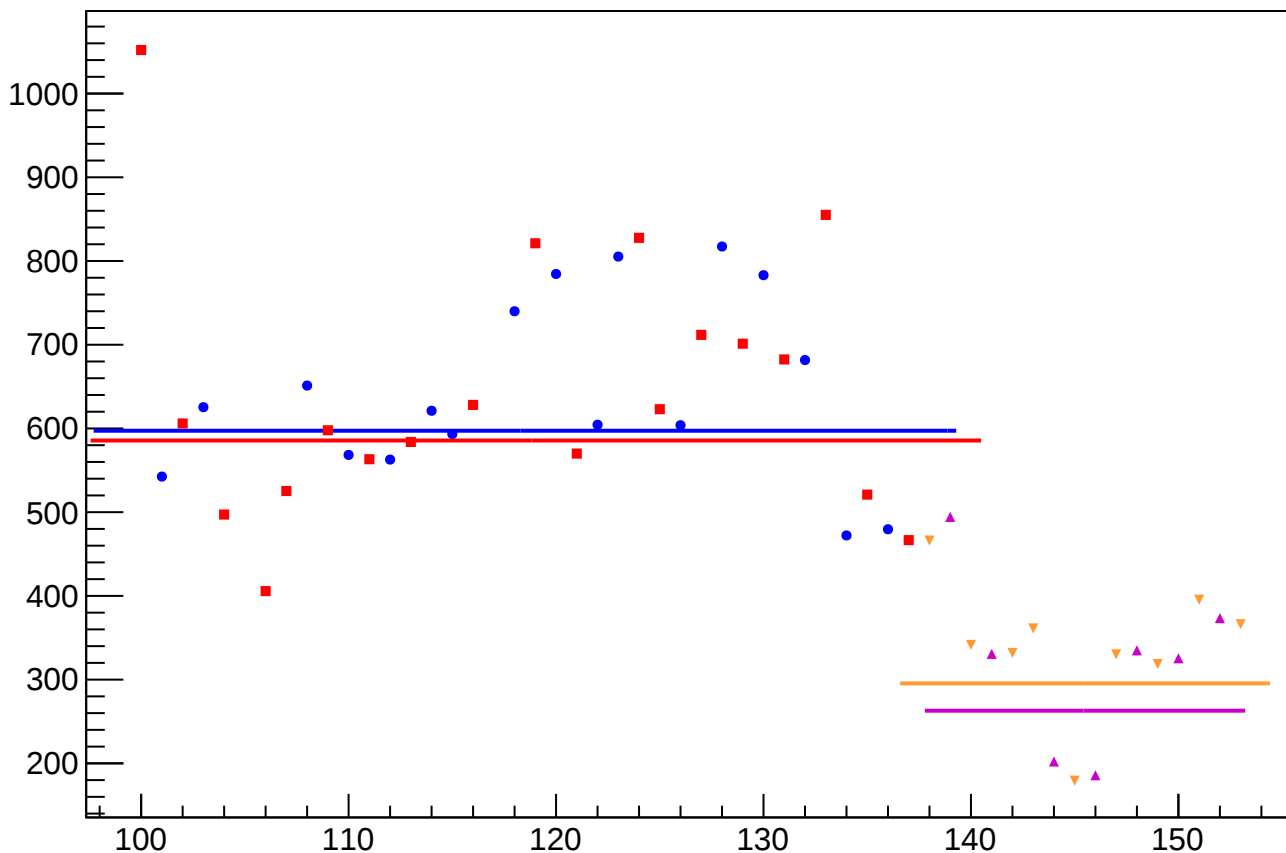
Left In: 161.142 $\pm$ 116.036  $\chi^2$ /NDF: 3.7/6

+ sign 415.104 $\pm$ 106.962  $\chi^2$ /NDF: 49.2/25

All: 306.316 $\pm$ 74.237  $\chi^2$ /NDF: 67.1/51

- sign 205.205 $\pm$ 103.119  $\chi^2$ /NDF: 15.9/25

# asym\_sam\_37\_dd\_rms vs Slug



Right In:  $597.298 \pm 0.167$   $\chi^2/\text{NDF}$ : 363658.5/16

Left Out:  $295.494 \pm 0.085$   $\chi^2/\text{NDF}$ : 1103346.1/8

Right Out:  $585.615 \pm 0.159$   $\chi^2/\text{NDF}$ : 474610.2/18

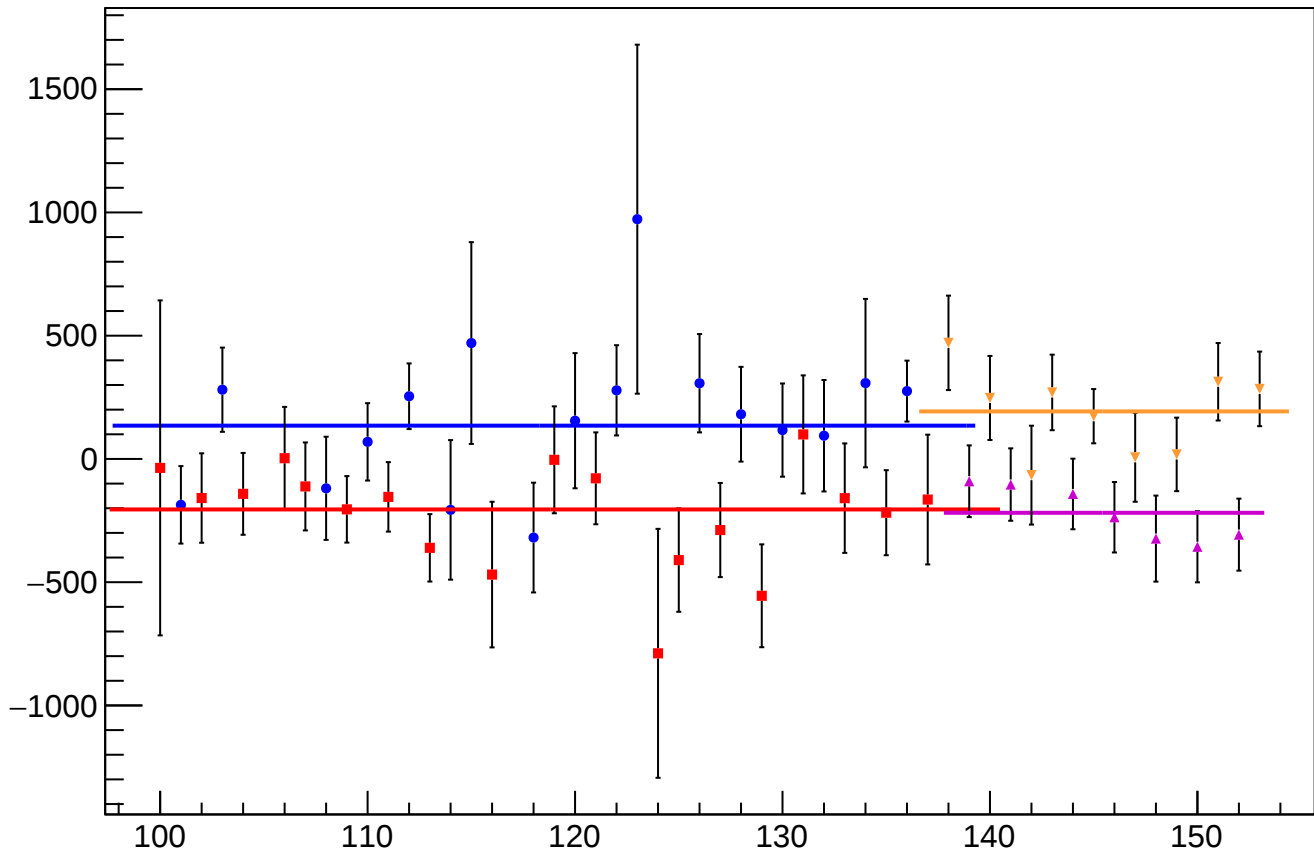
Left In:  $262.911 \pm 0.082$   $\chi^2/\text{NDF}$ : 1112901.5/6

+ sign  $357.700 \pm 0.076$   $\chi^2/\text{NDF}$ : 4072505.1/25

All:  $343.736 \pm 0.052$   $\chi^2/\text{NDF}$ : 8978033.4/51

- sign  $330.758 \pm 0.073$   $\chi^2/\text{NDF}$ : 4839762.7/25

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 135.029 $\pm$ 47.025  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: 192.840 $\pm$ 51.881  $\chi^2/\text{NDF}$ : 7.5/8

Right Out: -204.866 $\pm$ 44.440  $\chi^2/\text{NDF}$ : 12.1/18

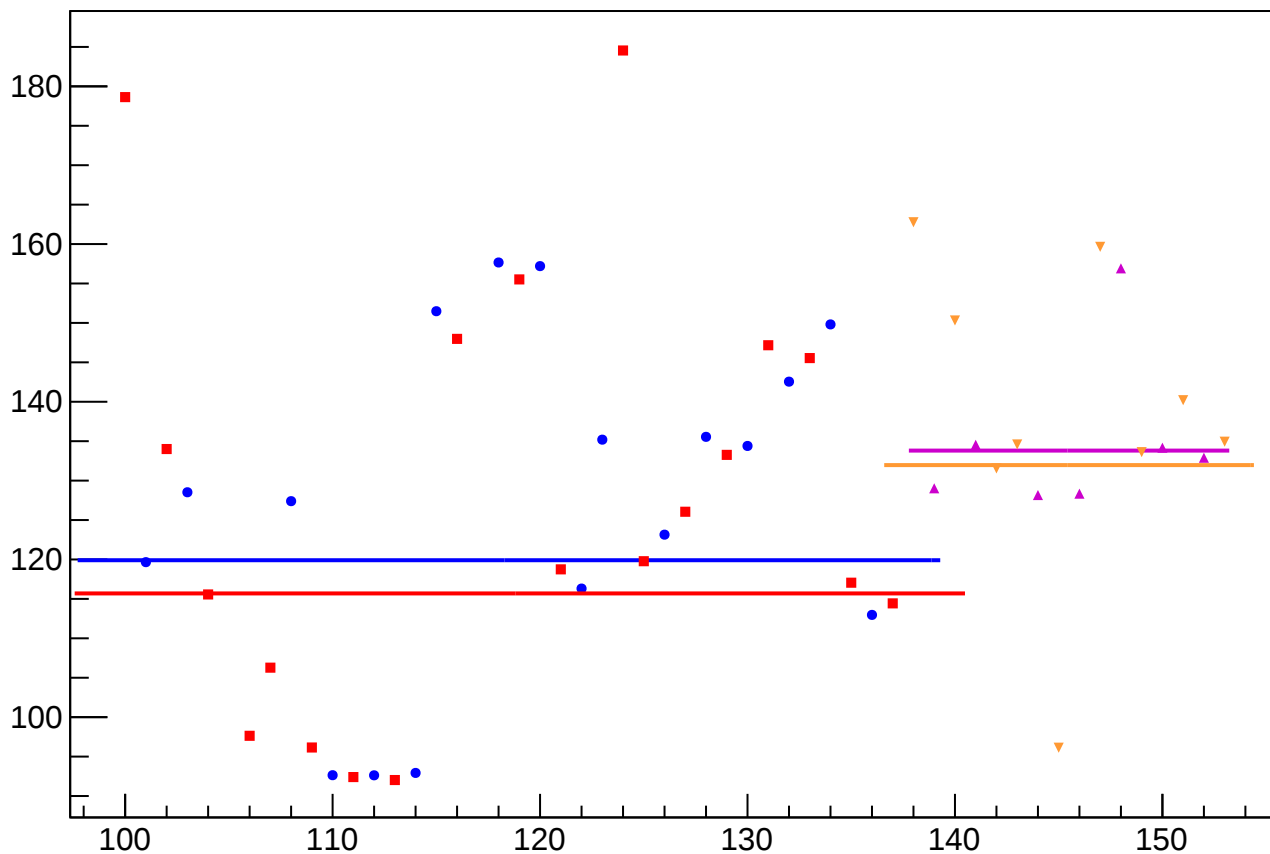
Left In: -218.509 $\pm$ 55.983  $\chi^2/\text{NDF}$ : 3.3/6

+ sign 161.103 $\pm$ 34.842  $\chi^2/\text{NDF}$ : 26.3/25

All: -24.707 $\pm$ 24.625  $\chi^2/\text{NDF}$ : 98.5/51

- sign -210.140 $\pm$ 34.807  $\chi^2/\text{NDF}$ : 15.4/25

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 131.968 $\pm$ 0.037  $\chi^2$ /NDF: 341047.4/8

Right Out: 115.693 $\pm$ 0.031  $\chi^2$ /NDF: 435335.9/18

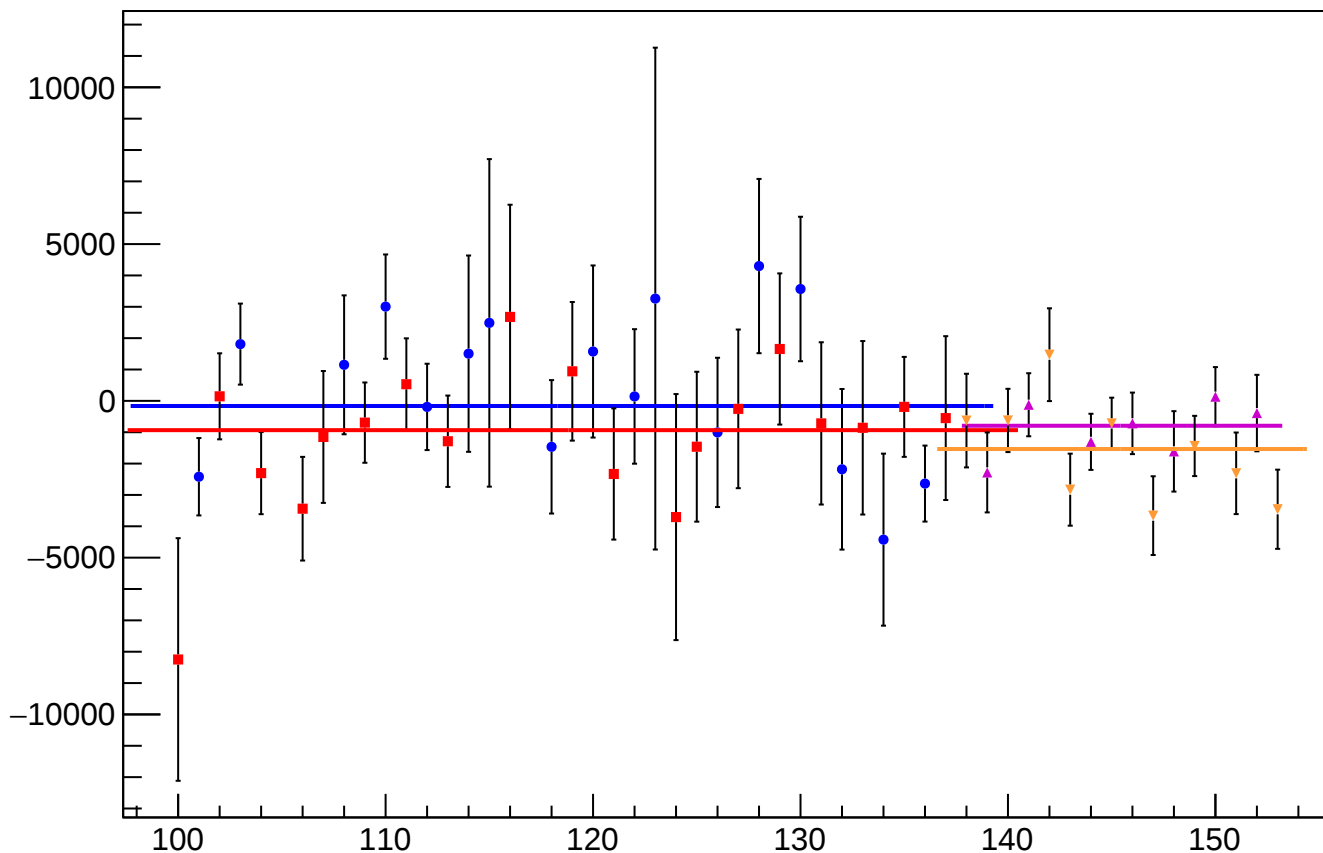
Left In: 133.807 $\pm$ 0.040  $\chi^2$ /NDF: 43402.0/6

+ sign 125.345 $\pm$ 0.025  $\chi^2$ /NDF: 745927.0/25

All: 124.018 $\pm$ 0.017  $\chi^2$ /NDF: 1358909.0/51

- sign 122.695 $\pm$ 0.025  $\chi^2$ /NDF: 607193.1/25

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In:  $-163.538 \pm 469.592$   $\chi^2/\text{NDF}$ : 23.7/16

Left Out:  $-1535.585 \pm 376.187$   $\chi^2/\text{NDF}$ : 13.1/8

Right Out:  $-933.992 \pm 437.648$   $\chi^2/\text{NDF}$ : 12.9/18

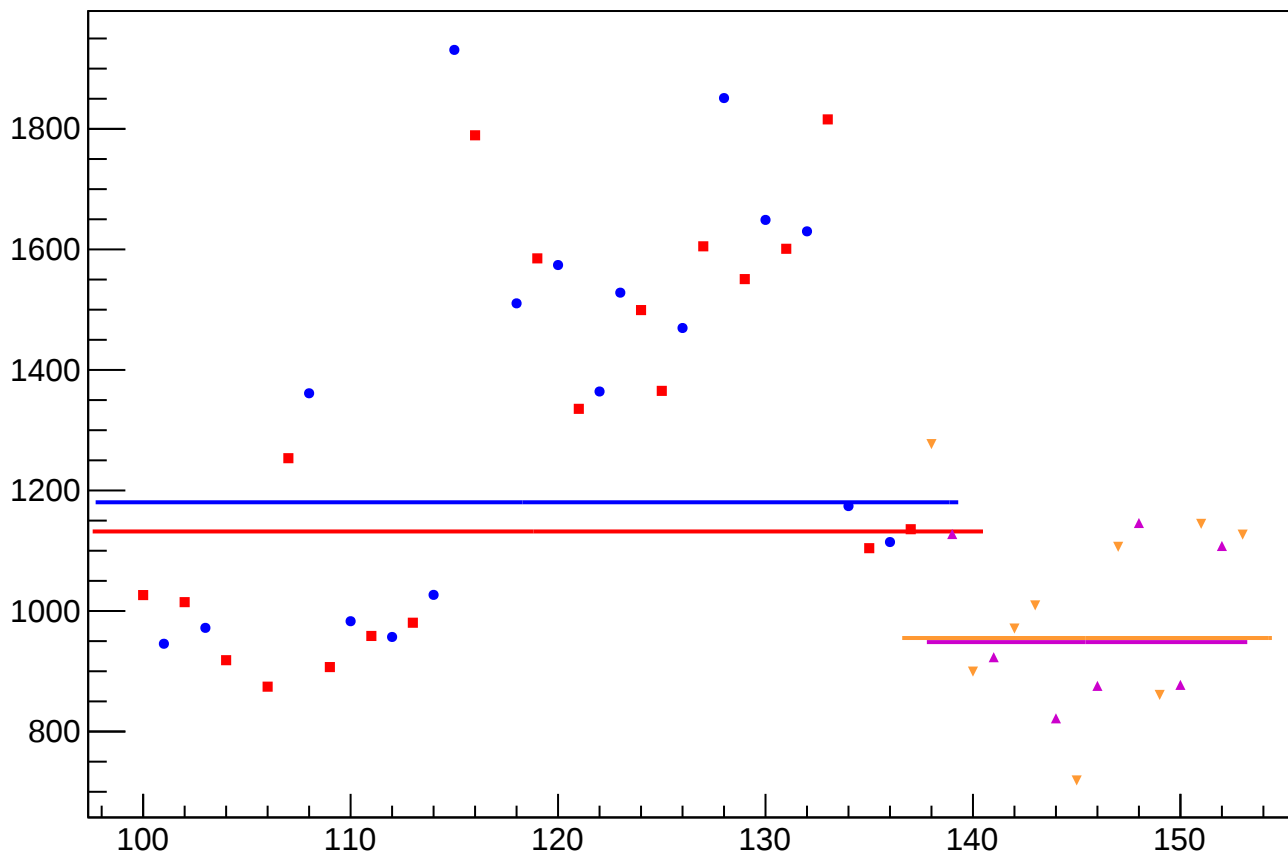
Left In:  $-793.676 \pm 398.593$   $\chi^2/\text{NDF}$ : 3.6/6

+ sign  $-999.259 \pm 293.596$   $\chi^2/\text{NDF}$ : 42.0/25

All:  $-928.541 \pm 207.989$   $\chi^2/\text{NDF}$ : 58.7/51

- sign  $-857.295 \pm 294.690$   $\chi^2/\text{NDF}$ : 16.6/25

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1180.403+/-0.332  $\chi^2/\text{NDF}$ : 668845.5/16

Left Out: 955.184+/-0.266  $\chi^2/\text{NDF}$ : 397227.6/8

Right Out: 1131.979+/-0.309  $\chi^2/\text{NDF}$ : 761904.0/18

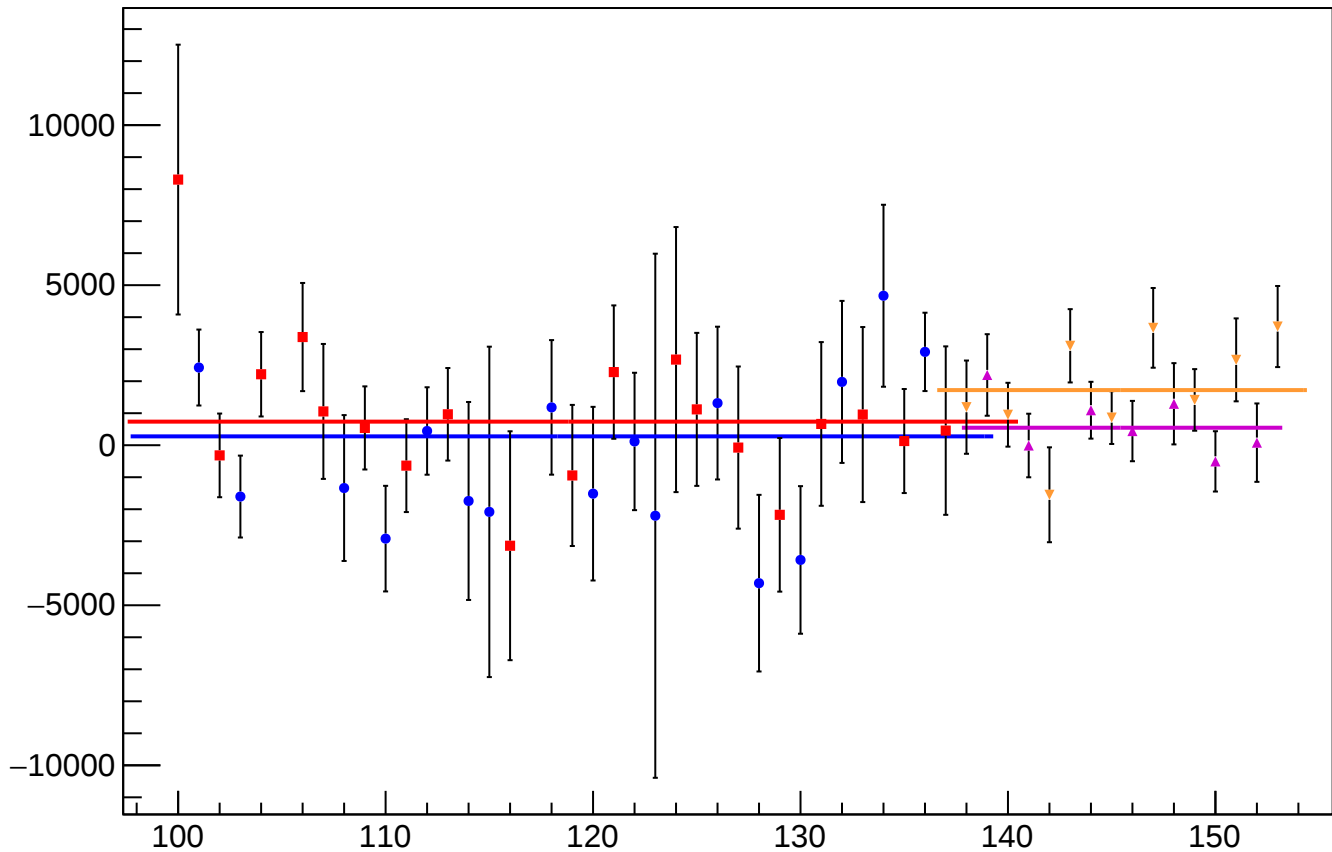
Left In: 948.399+/-0.282  $\chi^2/\text{NDF}$ : 184733.8/6

+ sign 1043.221+/-0.208  $\chi^2/\text{NDF}$ : 1346287.3/25

All: 1037.449+/-0.147  $\chi^2/\text{NDF}$ : 2486830.6/51

- sign 1031.634+/-0.208  $\chi^2/\text{NDF}$ : 1138991.4/25

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 276.422 $\pm$ 466.424  $\chi^2$ /NDF: 24.3/16

Left Out: 1722.047 $\pm$ 375.032  $\chi^2$ /NDF:13.7/8

Right Out: 736.749 $\pm$ 437.448  $\chi^2$ /NDF: 12.8/18

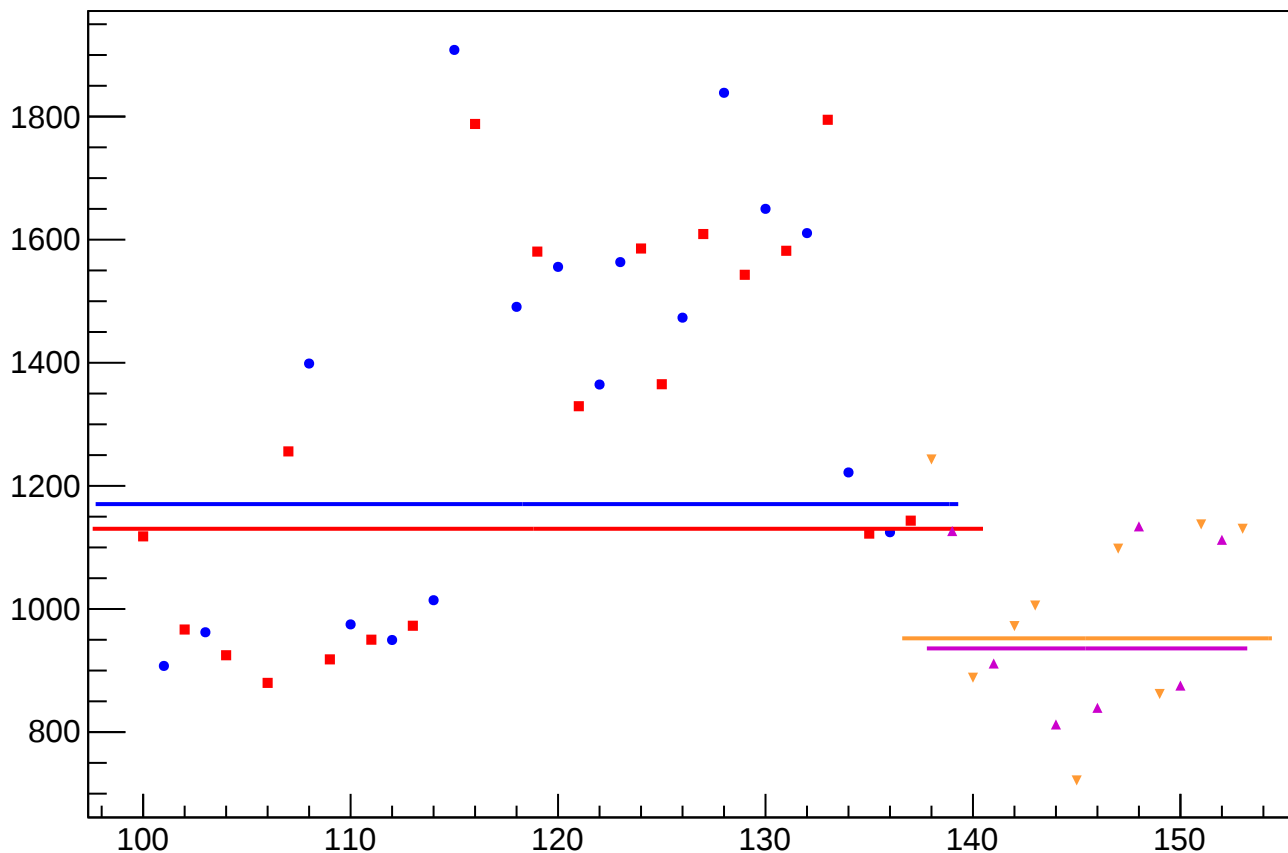
Left In: 546.226 $\pm$ 394.071  $\chi^2$ /NDF:4.1/6

+ sign 1154.417 $\pm$ 292.271  $\chi^2$ /NDF: 43.8/25

All: 893.458 $\pm$ 206.850  $\chi^2$ /NDF: 62.5/51

- sign 631.576 $\pm$ 292.788  $\chi^2$ /NDF: 17.1/25

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1170.404+/-0.330  $\chi^2/\text{NDF}$ : 705486.8/16

Left Out: 952.331+/-0.265  $\chi^2/\text{NDF}$ : 374683.6/8

Right Out: 1130.322+/-0.309  $\chi^2/\text{NDF}$ : 763044.5/18

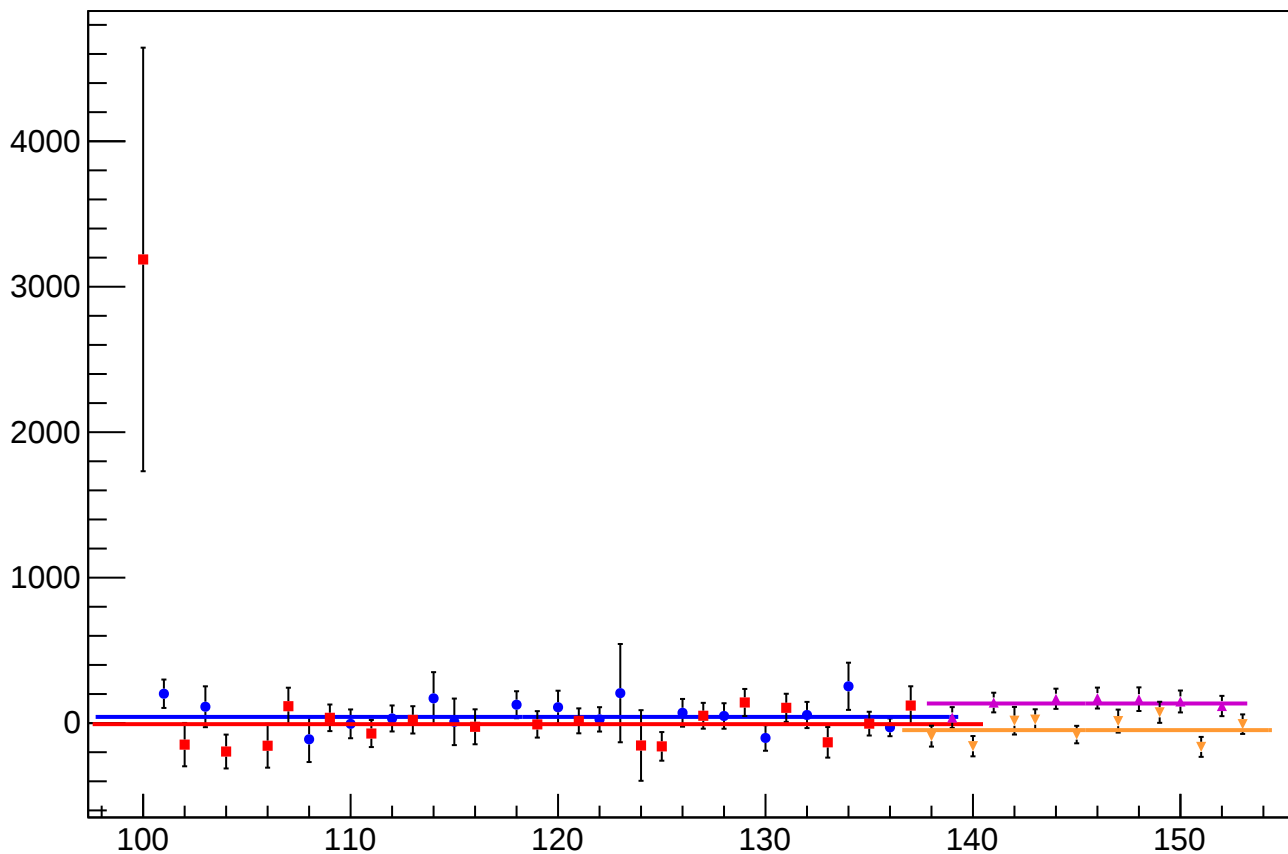
Left In: 935.951+/-0.279  $\chi^2/\text{NDF}$ : 204267.9/6

+ sign 1037.959+/-0.207  $\chi^2/\text{NDF}$ : 1345696.2/25

All: 1030.505+/-0.146  $\chi^2/\text{NDF}$ : 2533585.0/51

- sign 1023.025+/-0.207  $\chi^2/\text{NDF}$ : 1185282.5/25

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 42.674 $\pm$ 24.701  $\chi^2$ /NDF: 12.0/16

Left Out: -48.133 $\pm$ 23.762  $\chi^2$ /NDF: 11.3/8

Right Out: -7.090 $\pm$ 24.489  $\chi^2$ /NDF: 20.6/18

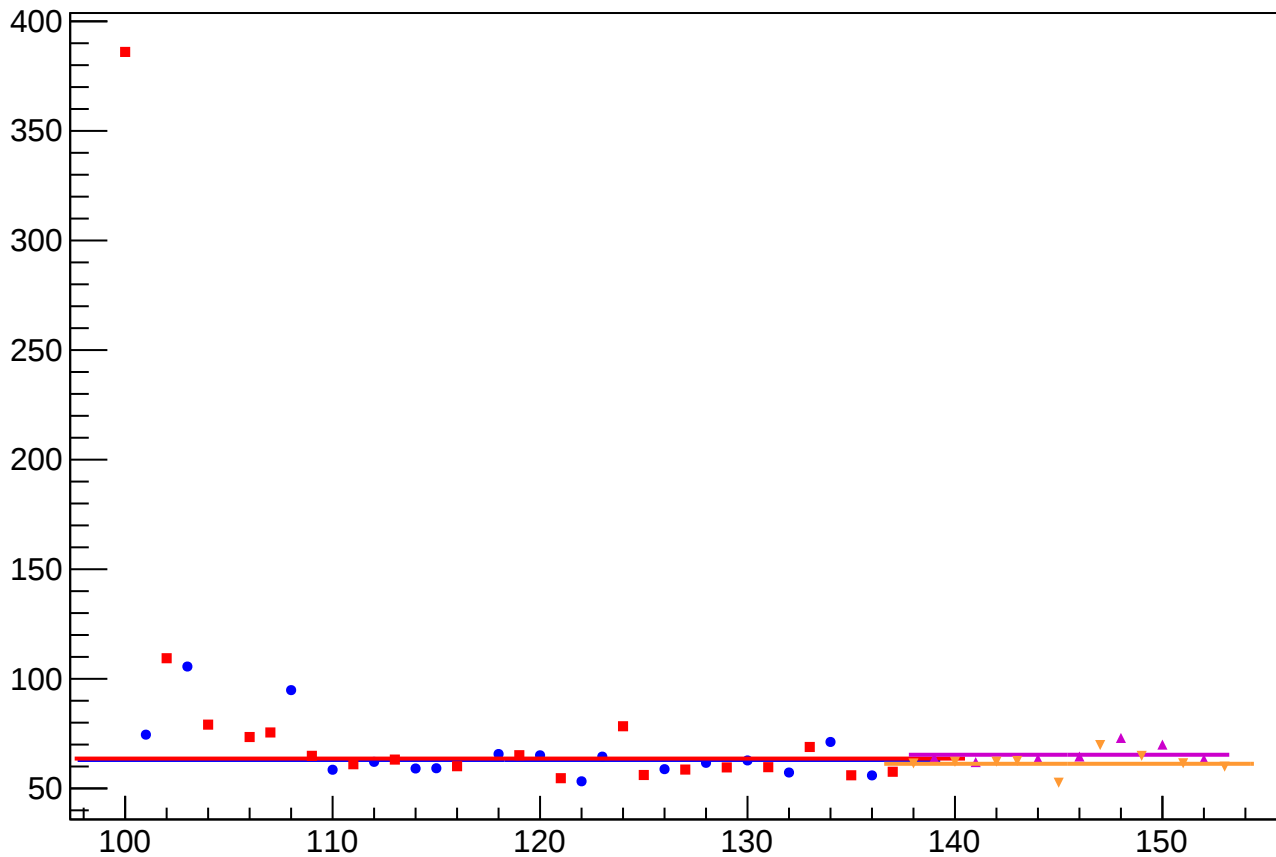
Left In: 134.894 $\pm$ 27.231  $\chi^2$ /NDF: 2.5/6

+ sign -4.489 $\pm$ 17.124  $\chi^2$ /NDF: 30.3/25

All: 24.087 $\pm$ 12.475  $\chi^2$ /NDF: 74.4/51

- sign 56.396 $\pm$ 18.209  $\chi^2$ /NDF: 38.2/25

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In:  $62.980 \pm 0.017$   $\chi^2/\text{NDF}: 375263.3/16$

Left Out:  $61.233 \pm 0.017$   $\chi^2/\text{NDF}: 71658.8/8$

Right Out:  $63.613 \pm 0.017$   $\chi^2/\text{NDF}: 433549.0/18$

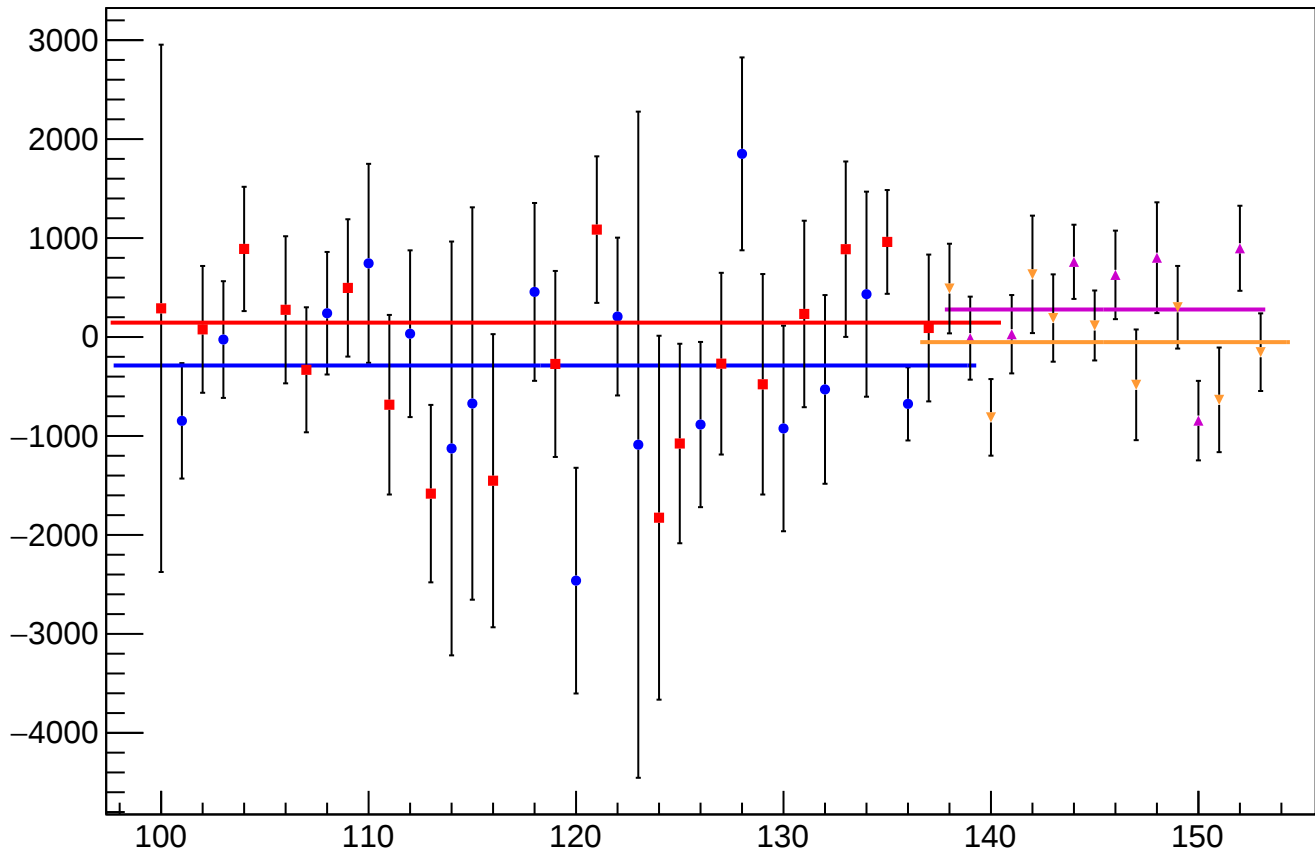
Left In:  $65.354 \pm 0.019$   $\chi^2/\text{NDF}: 34648.3/6$

+ sign  $62.073 \pm 0.012$   $\chi^2/\text{NDF}: 452118.5/25$

All:  $63.161 \pm 0.009$   $\chi^2/\text{NDF}: 942051.2/51$

- sign  $64.392 \pm 0.013$   $\chi^2/\text{NDF}: 472716.6/25$

# 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:  $-51.668 \pm 146.589$   $\chi^2/\text{NDF}$ : 9.7/8

Right Out:  $145.341 \pm 187.312$   $\chi^2/\text{NDF}$ : 16.1/18

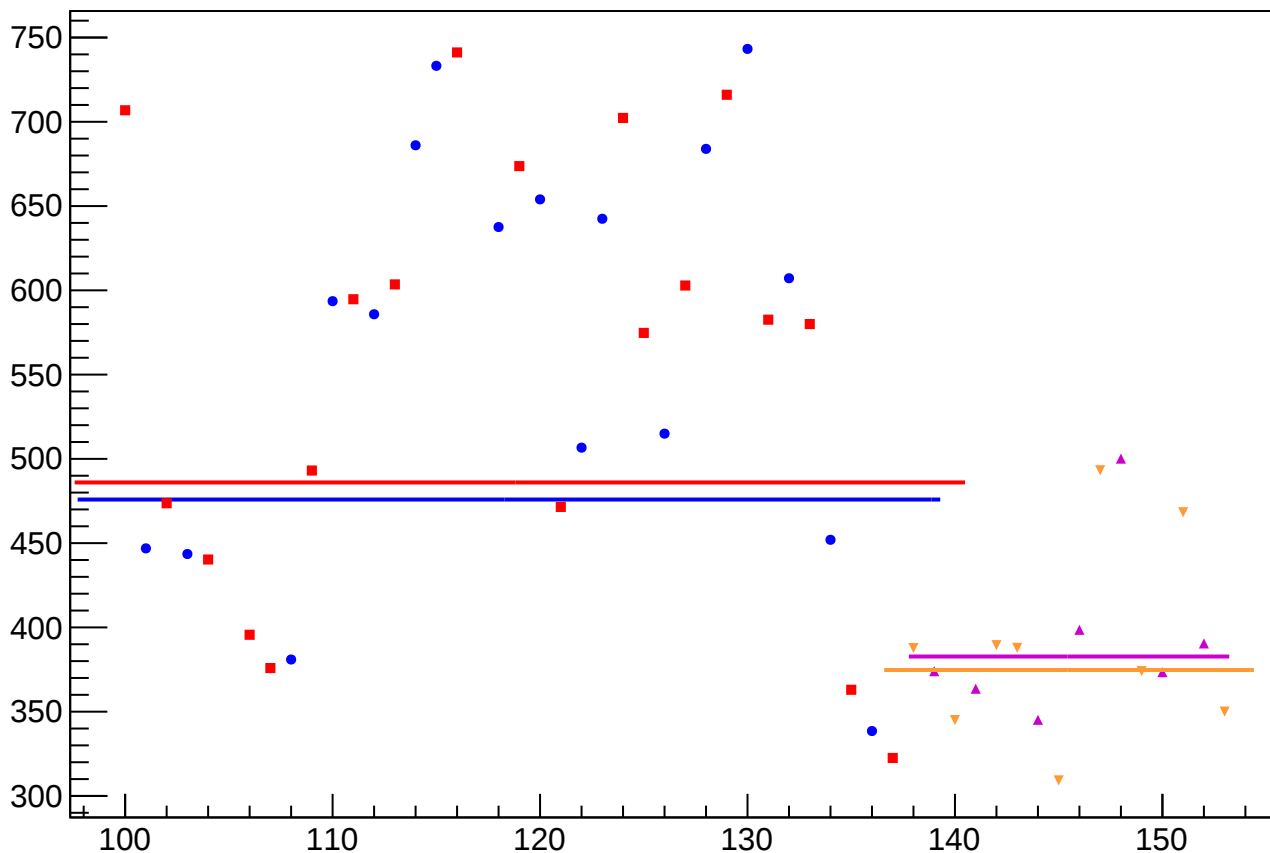
Left In:  $278.088 \pm 160.178$   $\chi^2/\text{NDF}$ : 13.9/6

+ sign  $-139.799 \pm 116.036$   $\chi^2/\text{NDF}$ : 26.1/25

All:  $32.440 \pm 83.993$   $\chi^2/\text{NDF}$ : 60.9/51

- sign  $222.017 \pm 121.737$   $\chi^2/\text{NDF}$ : 30.3/25

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 475.871 $\pm$ 0.134  $\chi^2$ /NDF: 837808.5/16

Left Out: 374.732 $\pm$ 0.104  $\chi^2$ /NDF: 245522.6/8

Right Out: 486.011 $\pm$ 0.132  $\chi^2$ /NDF: 730123.7/18

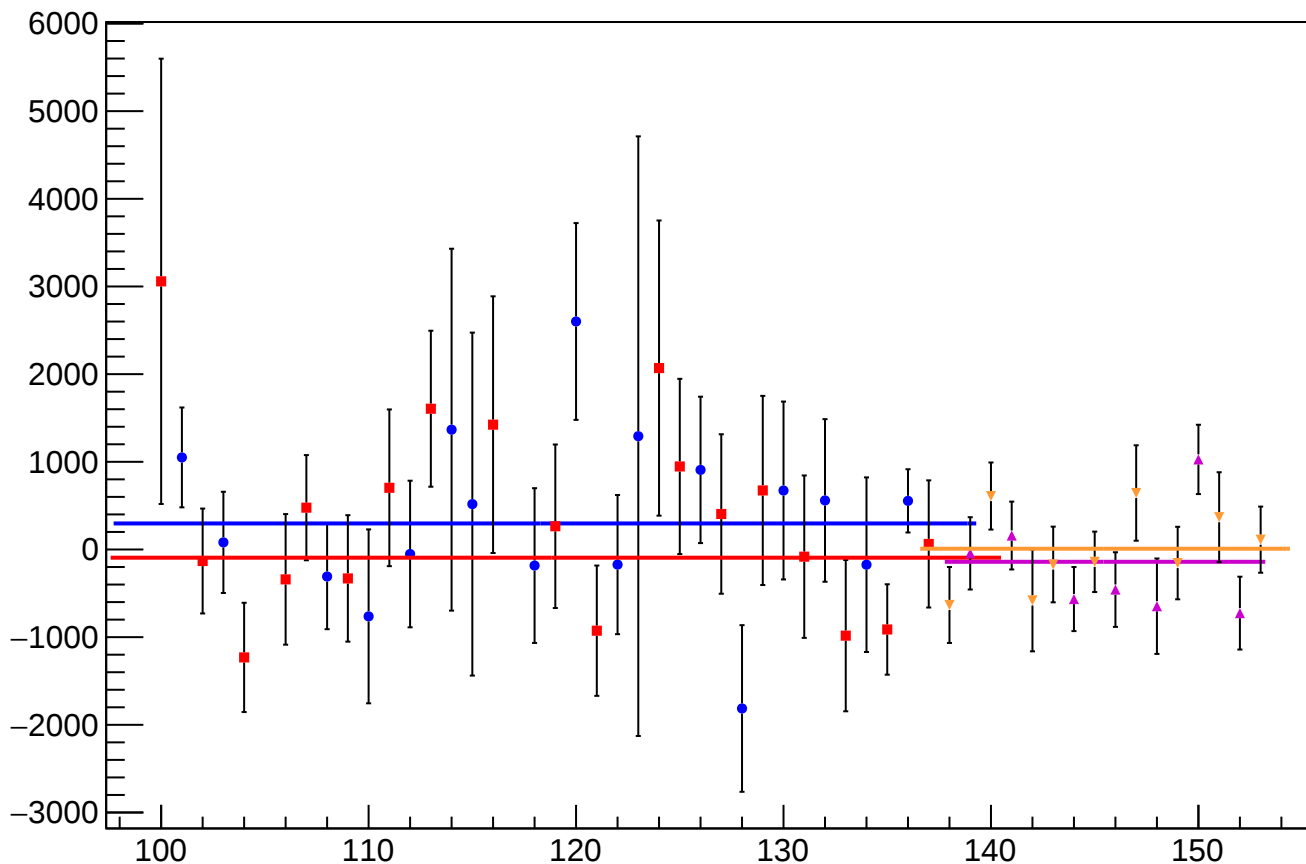
Left In: 382.728 $\pm$ 0.113  $\chi^2$ /NDF: 117851.1/6

+ sign 412.498 $\pm$ 0.082  $\chi^2$ /NDF: 1438844.1/25

All: 419.094 $\pm$ 0.059  $\chi^2$ /NDF: 2651618.7/51

- sign 426.354 $\pm$ 0.086  $\chi^2$ /NDF: 1199200.5/25

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 296.984 $\pm$ 185.975  $\chi^2$ /NDF: 15.9/16

Left Out: 8.769 $\pm$ 142.913  $\chi^2$ /NDF:8.1/8

Right Out: -93.523 $\pm$ 183.916  $\chi^2$ /NDF: 20.1/18

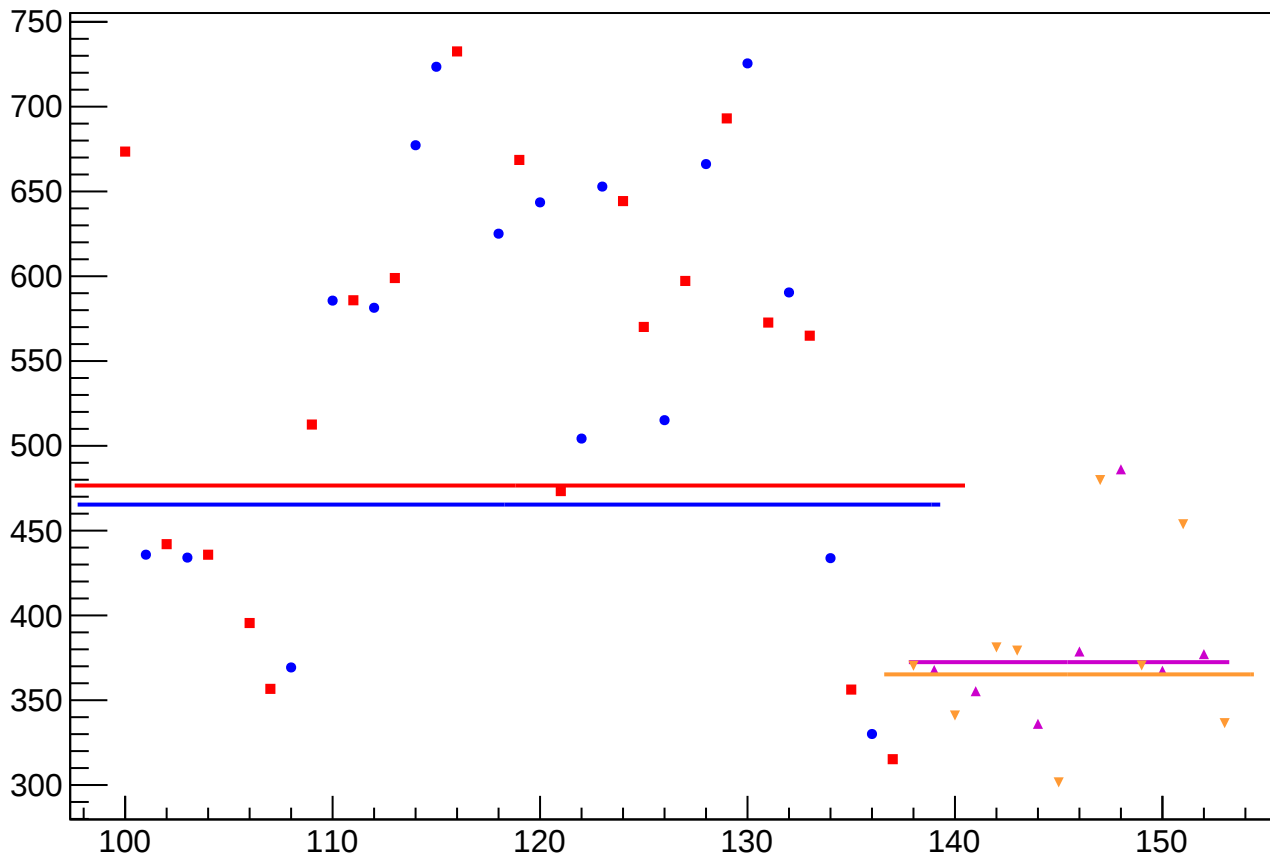
Left In: -140.430 $\pm$ 155.917  $\chi^2$ /NDF:14.1/6

+ sign 115.775 $\pm$ 113.319  $\chi^2$ /NDF: 25.5/25

All: 3.193 $\pm$ 82.041  $\chi^2$ /NDF: 61.9/51

- sign -120.815 $\pm$ 118.931  $\chi^2$ /NDF: 34.3/25

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 465.356 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 365.234 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 240402.8/8

Right Out: 476.597 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 752936.0/18

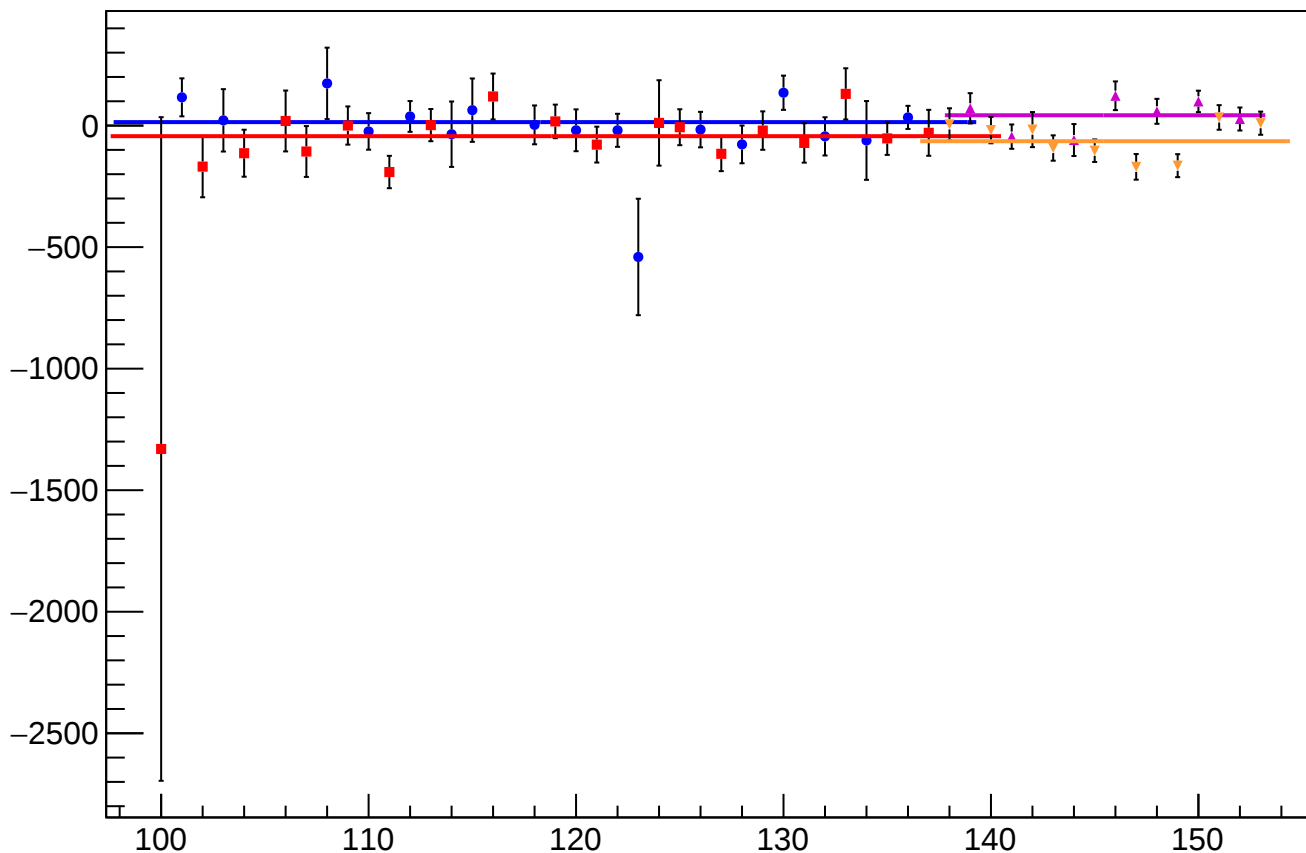
Left In: 372.449 $\pm$ 0.110  $\chi^2/\text{NDF}$ : 112311.4/6

+ sign 402.407 $\pm$ 0.080  $\chi^2/\text{NDF}$ : 1465269.2/25

All: 408.875 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 2717369.6/51

- sign 416.000 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 1238405.7/25

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $14.253 \pm 19.867$   $\chi^2/\text{NDF}$ : 14.8/16

Left Out:  $-64.333 \pm 17.593$   $\chi^2/\text{NDF}$ : 17.9/8

Right Out:  $-43.602 \pm 19.648$   $\chi^2/\text{NDF}$ : 17.0/18

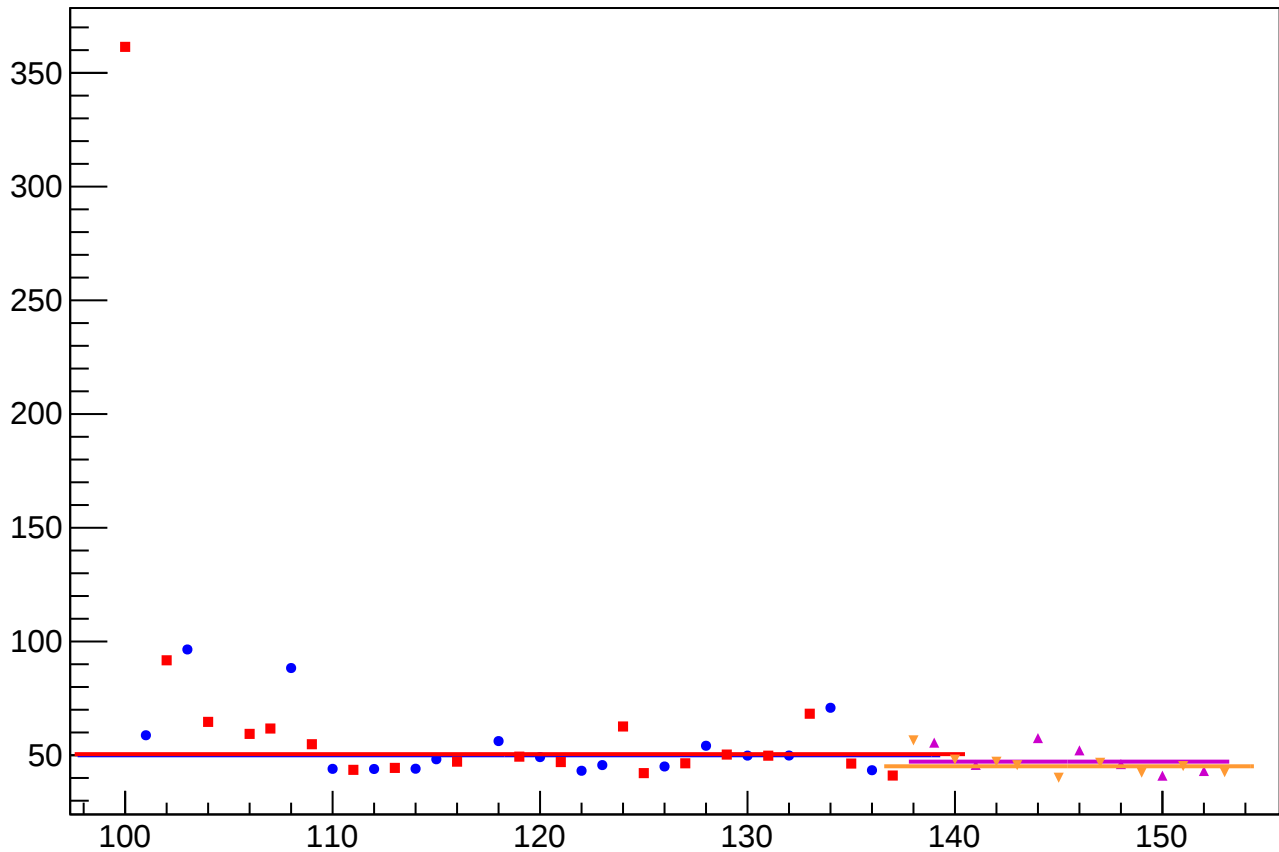
Left In:  $42.452 \pm 19.944$   $\chi^2/\text{NDF}$ : 9.4/6

+ sign  $-29.793 \pm 13.171$   $\chi^2/\text{NDF}$ : 41.5/25

All:  $-16.374 \pm 9.592$   $\chi^2/\text{NDF}$ : 79.6/51

- sign  $-1.220 \pm 13.997$   $\chi^2/\text{NDF}$ : 35.9/25

# dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 49.973+/-0.014  $\chi^2/\text{NDF}$ : 578750.7/16

Left Out: 45.137+/-0.012  $\chi^2/\text{NDF}$ : 105098.6/8

Right Out: 50.472+/-0.014  $\chi^2/\text{NDF}$ : 571294.5/18

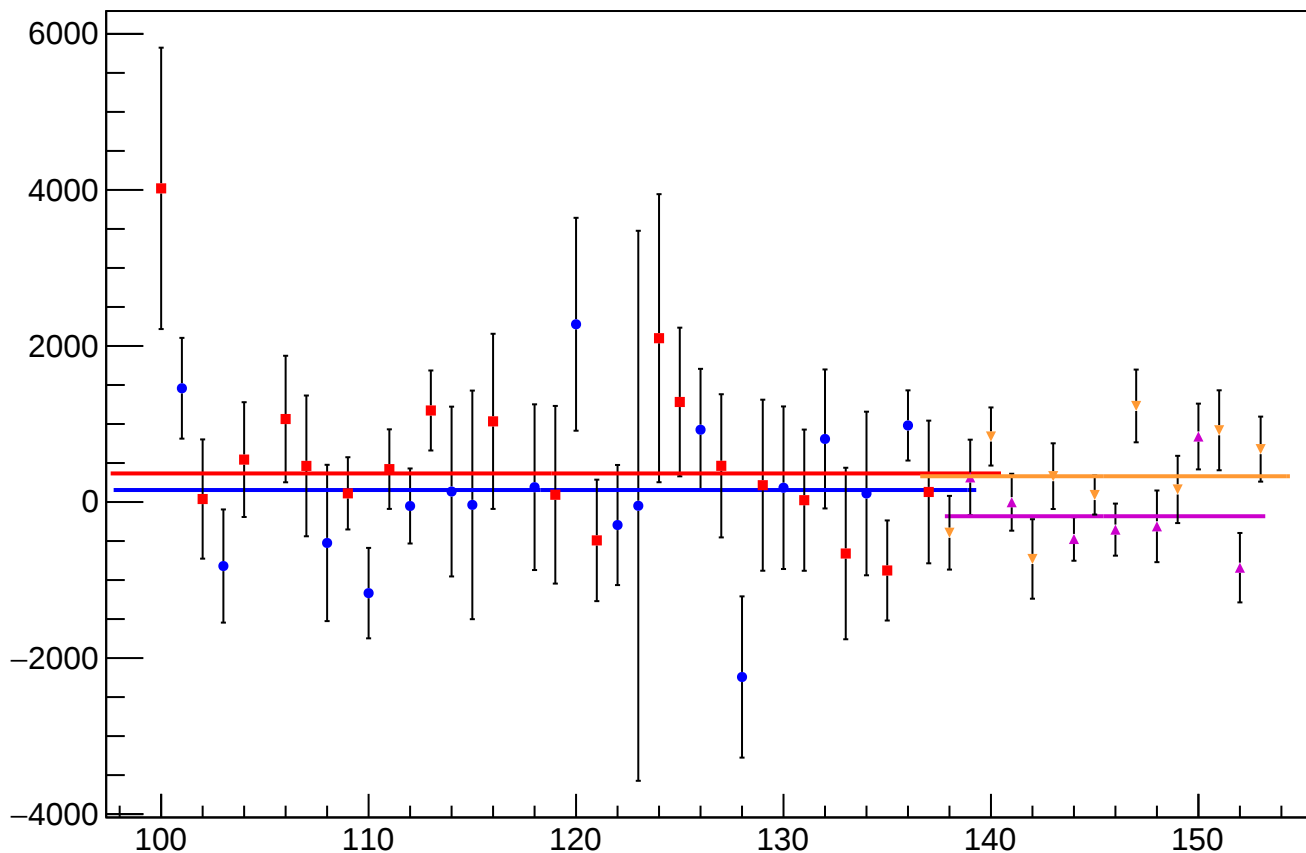
Left In: 47.182+/-0.014  $\chi^2/\text{NDF}$ : 156382.3/6

+ sign 47.262+/-0.009  $\chi^2/\text{NDF}$ : 750286.8/25

All: 48.009+/-0.007  $\chi^2/\text{NDF}$ : 1519270.1/51

- sign 48.852+/-0.010  $\chi^2/\text{NDF}$ : 755302.7/25

# asym\_sam\_15\_37\_dd\_correction\_mean vs Slug



Right In: 153.842 $\pm$ 189.963  $\chi^2$ /NDF: 24.8/16

Left Out: 330.314 $\pm$ 132.824  $\chi^2$ /NDF:15.4/8

Right Out: 366.276 $\pm$ 178.907  $\chi^2$ /NDF: 16.2/18

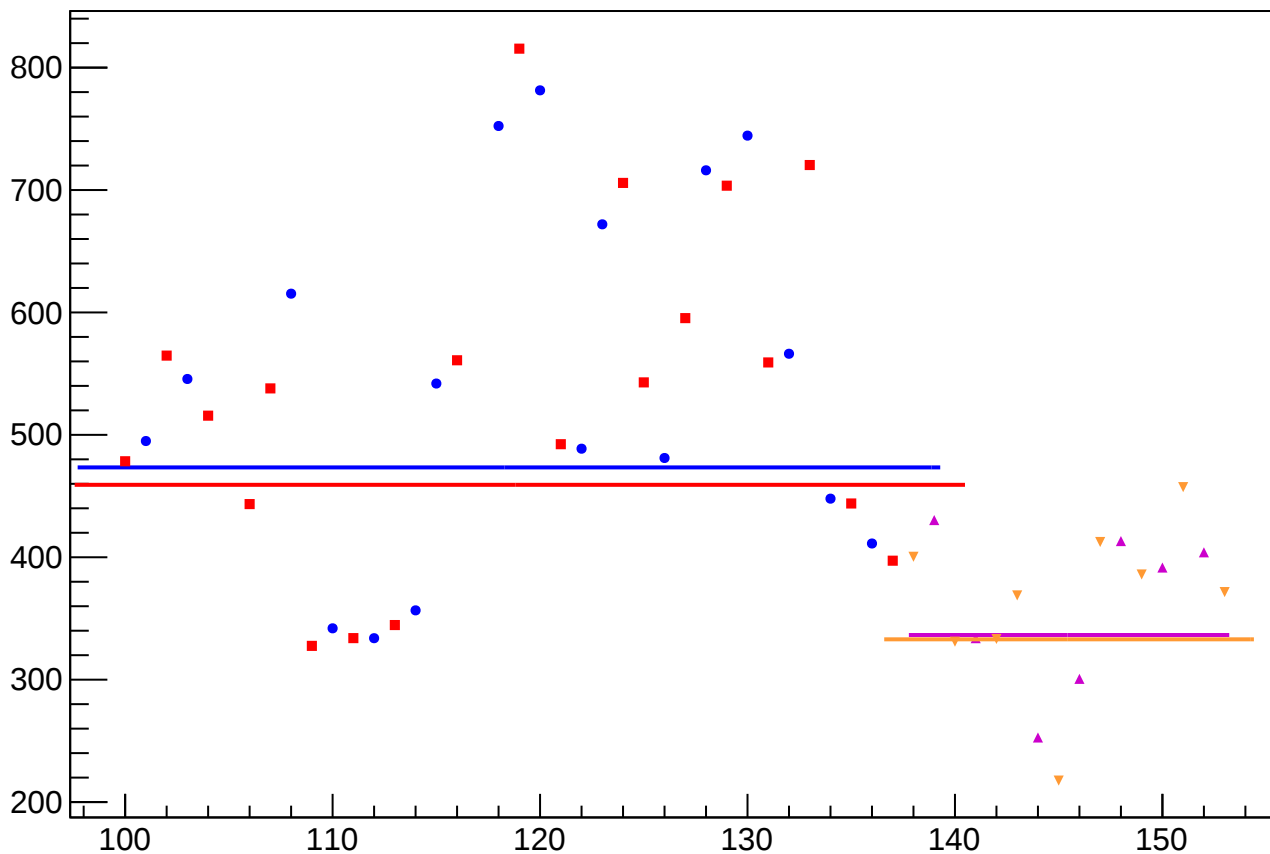
Left In: -182.142 $\pm$ 142.767  $\chi^2$ /NDF:10.8/6

+ sign 272.367 $\pm$ 108.854  $\chi^2$ /NDF: 40.8/25

All: 154.787 $\pm$ 77.921  $\chi^2$ /NDF: 75.9/51

- sign 31.219 $\pm$ 111.591  $\chi^2$ /NDF: 32.8/25

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 473.406 $\pm$ 0.134  $\chi^2/\text{NDF}$ : 914927.8/16

Left Out: 332.958 $\pm$ 0.094  $\chi^2/\text{NDF}$ : 703096.3/8

Right Out: 459.180 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 1006487.4/18

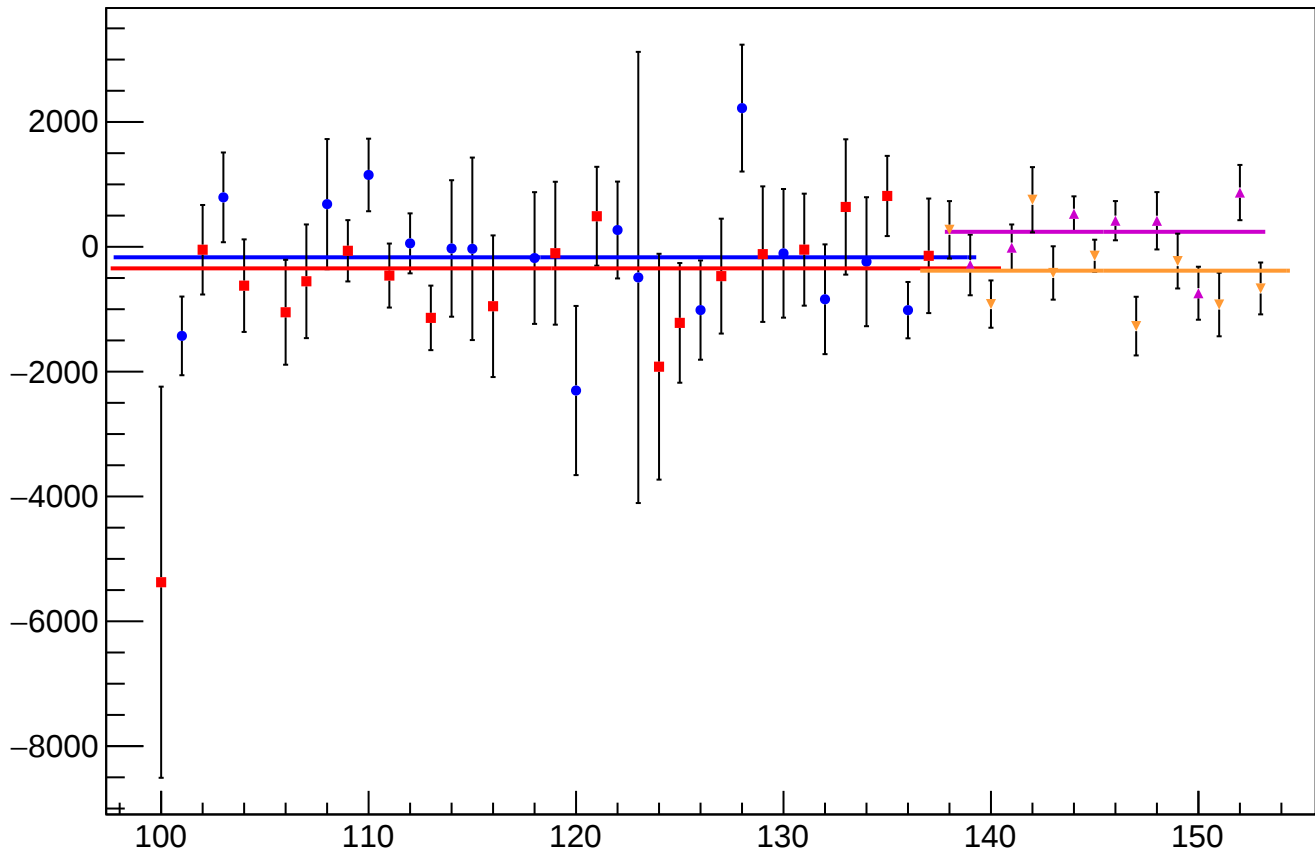
Left In: 336.494 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 415014.0/6

+ sign 379.076 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 2352300.1/25

All: 381.586 $\pm$ 0.055  $\chi^2/\text{NDF}$ : 4350585.5/51

- sign 384.225 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 1996103.9/25

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $-168.049 \pm 189.758$   $\chi^2/\text{NDF}: 25.4/16$

Left Out:  $-382.464 \pm 134.416$   $\chi^2/\text{NDF}: 14.9/8$

Right Out:  $-345.481 \pm 181.255$   $\chi^2/\text{NDF}: 13.7/18$

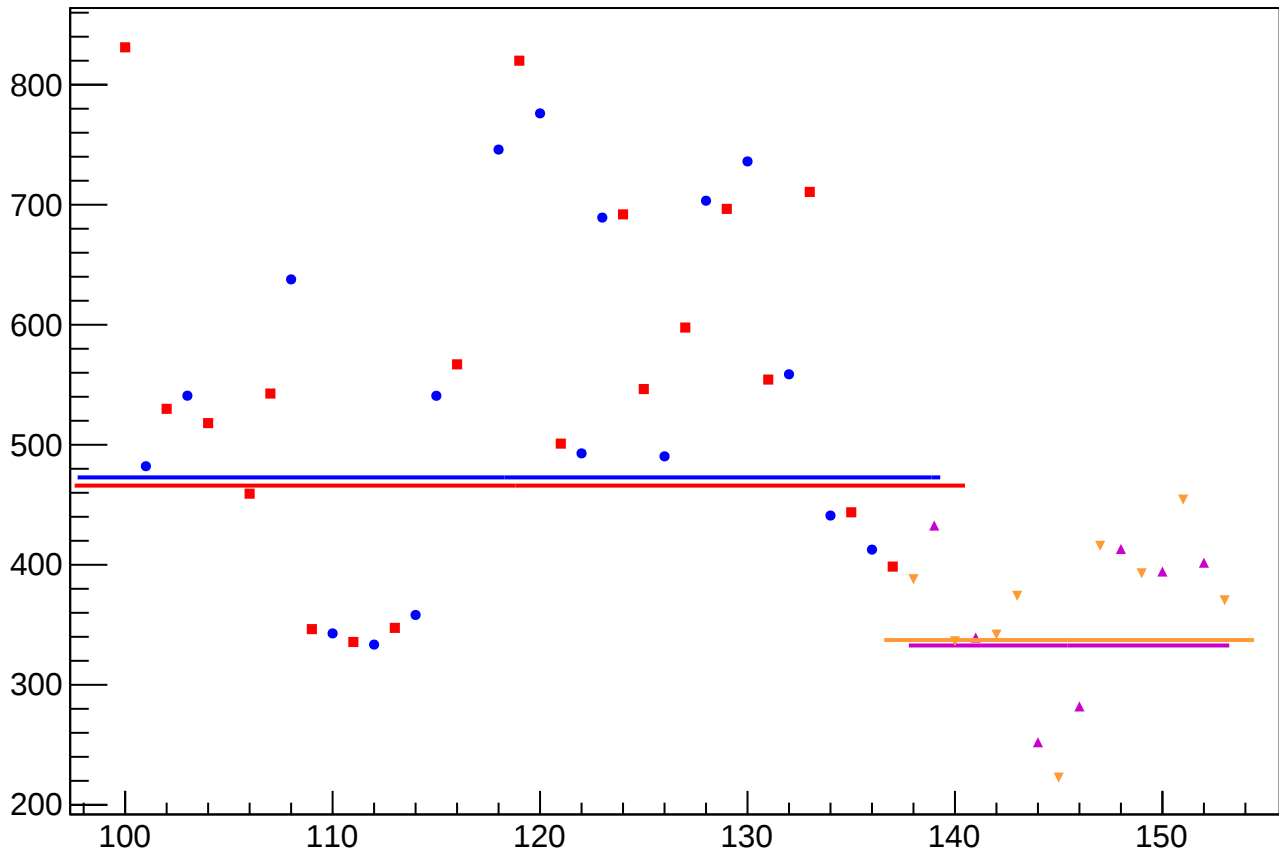
Left In:  $240.318 \pm 141.682$   $\chi^2/\text{NDF}: 10.6/6$

+ sign  $-310.824 \pm 109.686$   $\chi^2/\text{NDF}: 41.2/25$

All:  $-149.225 \pm 78.237$   $\chi^2/\text{NDF}: 76.4/51$

- sign  $18.142 \pm 111.626$   $\chi^2/\text{NDF}: 30.8/25$

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 337.316 $\pm$ 0.095  $\chi^2$ /NDF: 643438.9/8

Right Out: 465.987 $\pm$ 0.128  $\chi^2$ /NDF: 942033.1/18

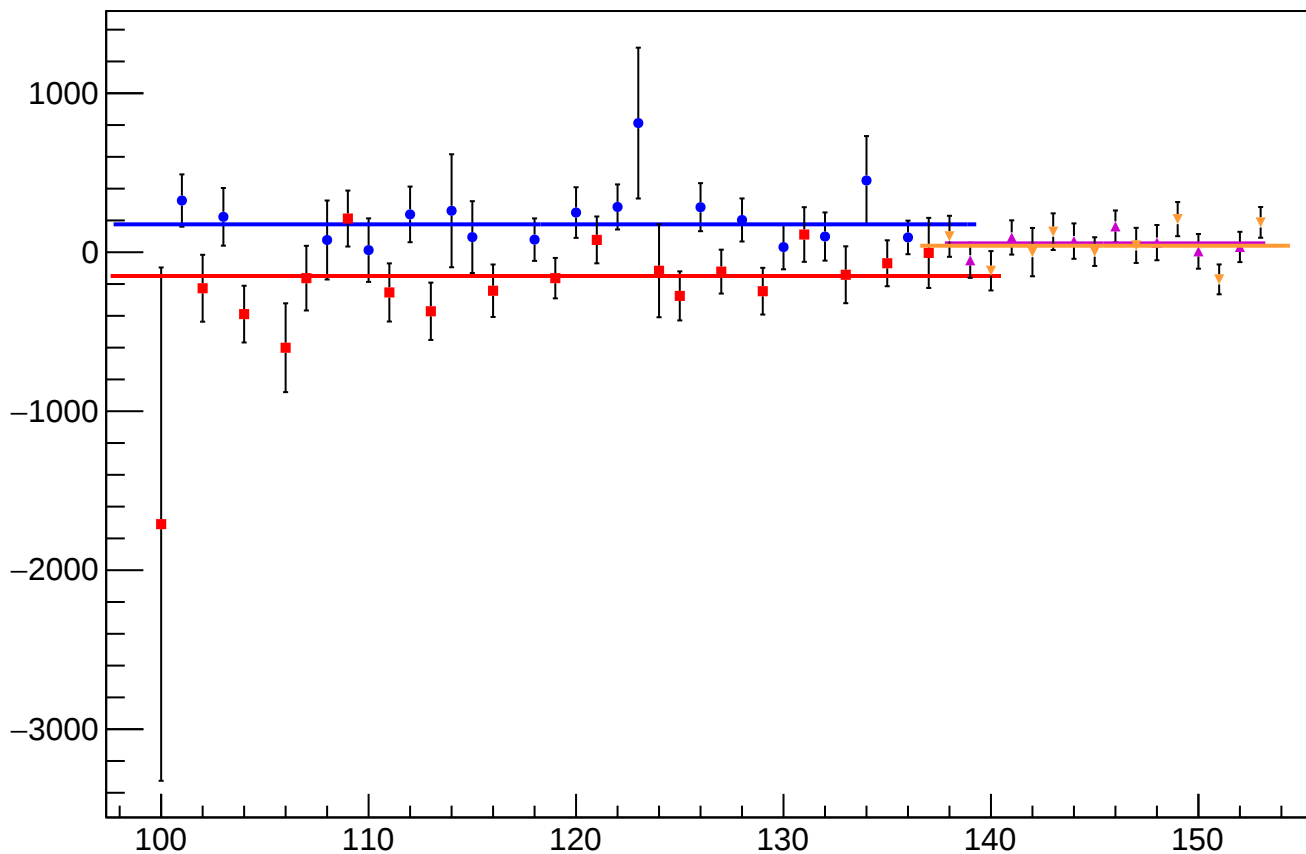
Left In: 332.780 $\pm$ 0.100  $\chi^2$ /NDF: 455883.8/6

+ sign 382.590 $\pm$ 0.078  $\chi^2$ /NDF: 2218907.1/25

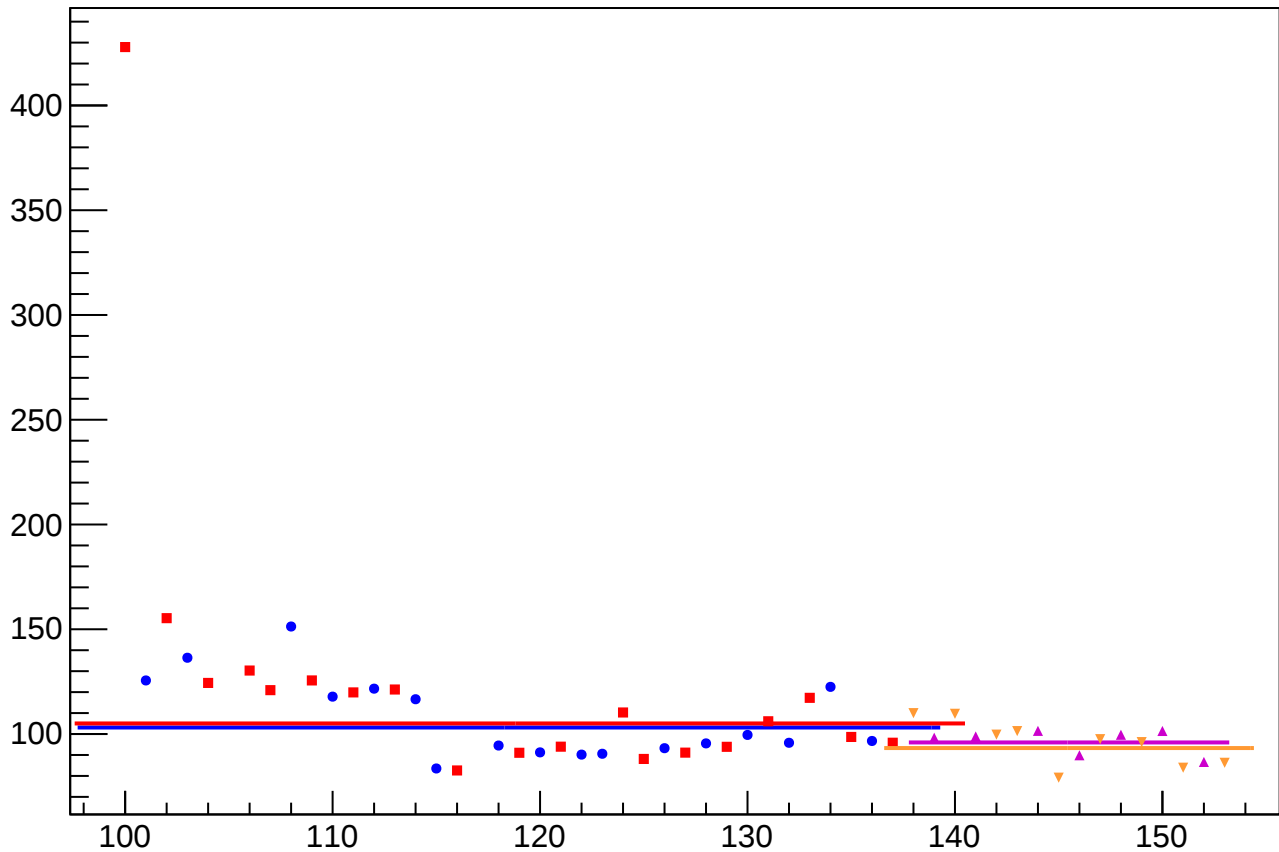
All: 382.940 $\pm$ 0.055  $\chi^2$ /NDF: 4287367.5/51

- sign 383.301 $\pm$ 0.079  $\chi^2$ /NDF: 2068419.1/25

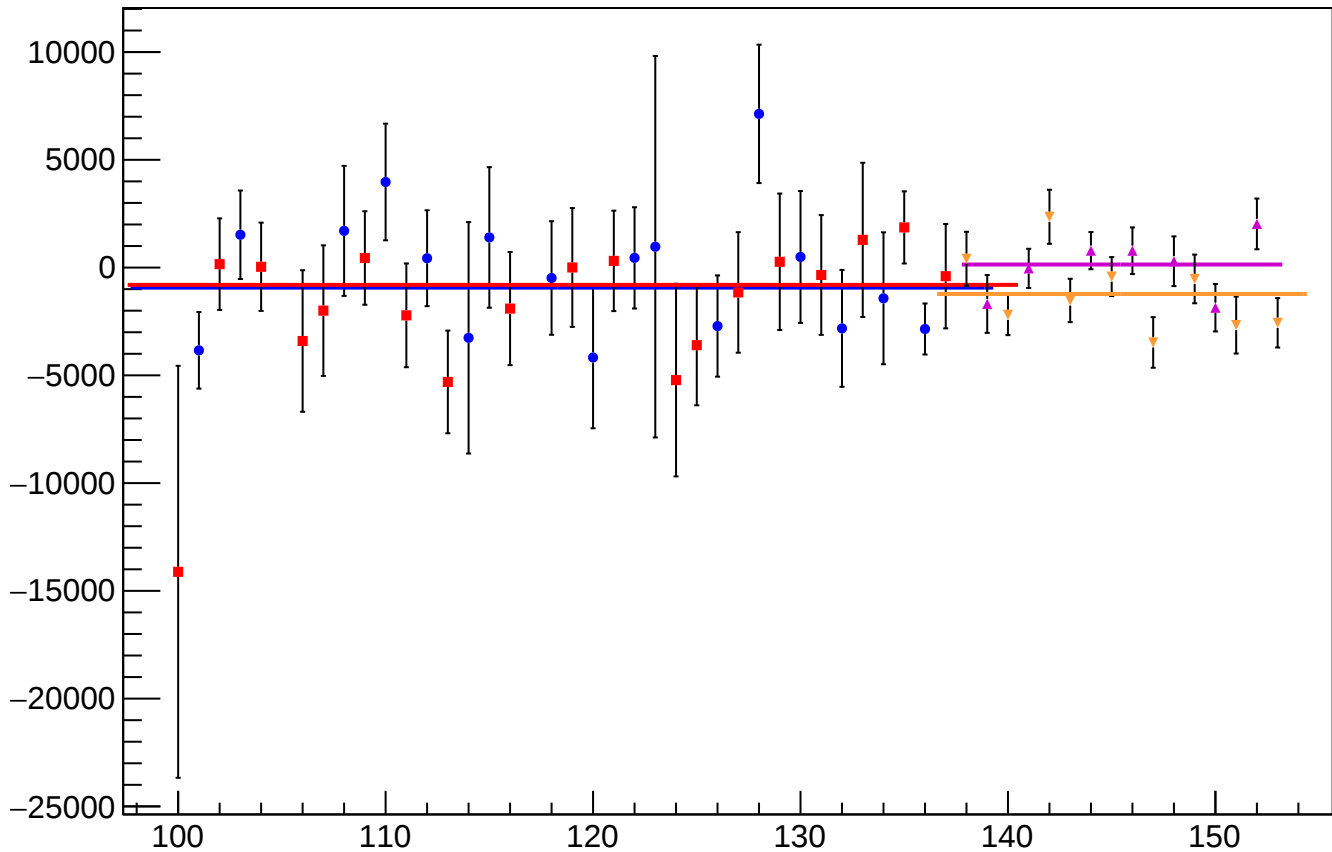
# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



# 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:  $-1224.703 \pm 366.418$   $\chi^2/\text{NDF}$ : 18.4/8

Right Out:  $-802.855 \pm 593.810$   $\chi^2/\text{NDF}$ : 12.9/18

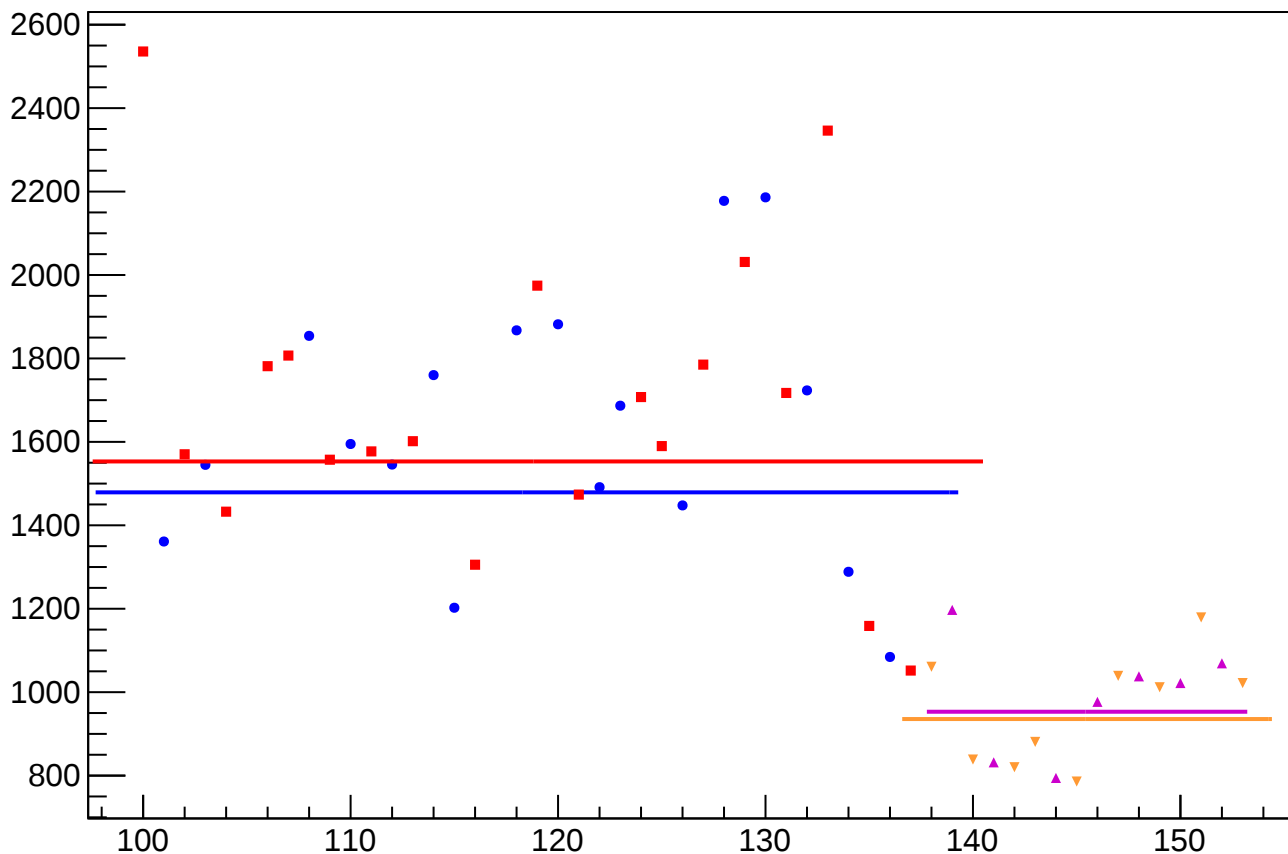
Left In:  $141.539 \pm 399.580$   $\chi^2/\text{NDF}$ : 8.7/6

+ sign  $-1141.764 \pm 310.826$   $\chi^2/\text{NDF}$ : 39.4/25

All:  $-679.101 \pm 226.748$   $\chi^2/\text{NDF}$ : 67.5/51

- sign  $-152.806 \pm 331.512$   $\chi^2/\text{NDF}$ : 23.3/25

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1478.991 $\pm$ 0.415  $\chi^2$ /NDF: 589620.8/16

Left Out: 935.603 $\pm$ 0.259  $\chi^2$ /NDF: 222815.9/8

Right Out: 1553.074 $\pm$ 0.420  $\chi^2$ /NDF: 483784.4/18

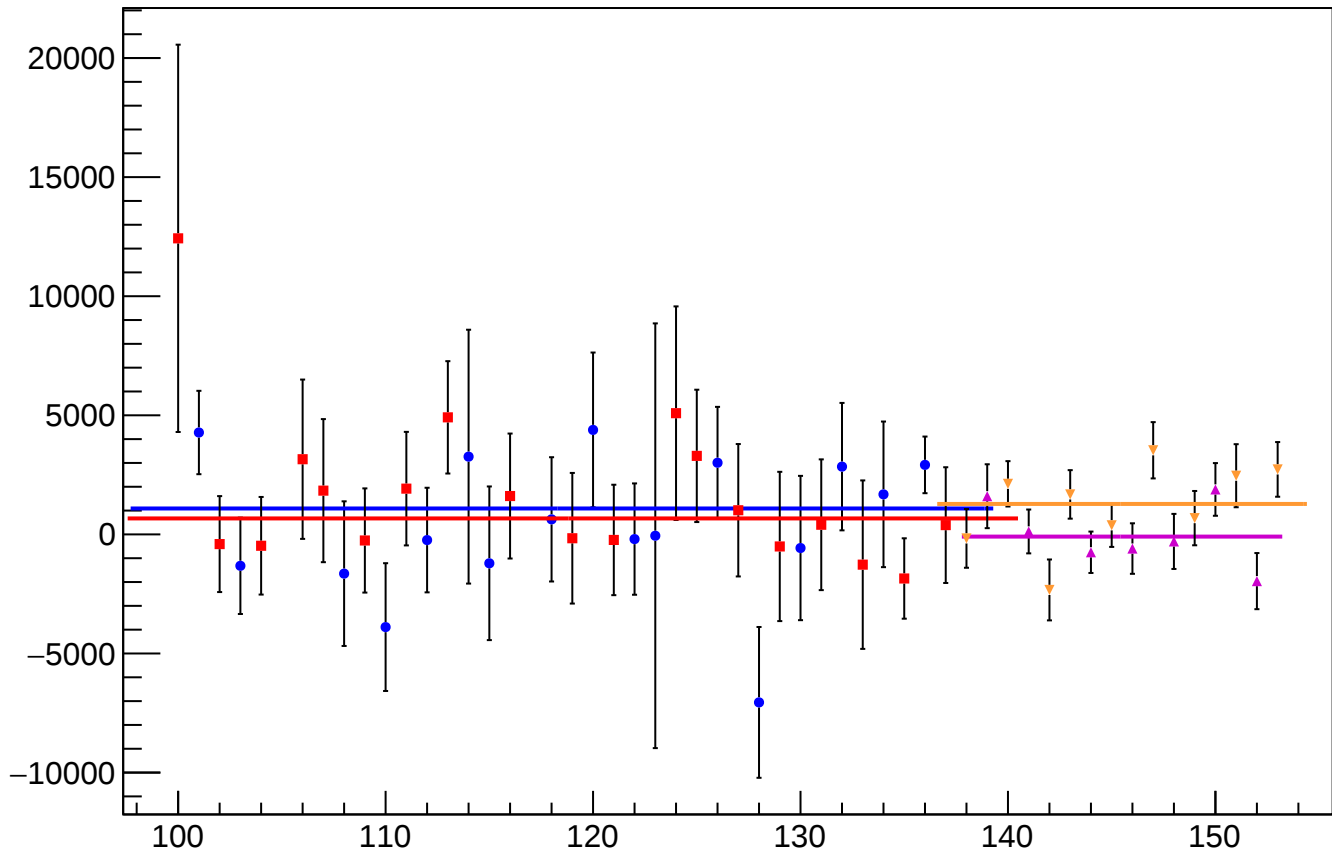
Left In: 953.108 $\pm$ 0.283  $\chi^2$ /NDF: 208637.4/6

+ sign 1087.979 $\pm$ 0.220  $\chi^2$ /NDF: 2045828.1/25

All: 1112.364 $\pm$ 0.160  $\chi^2$ /NDF: 4169900.6/51

- sign 1140.103 $\pm$ 0.234  $\chi^2$ /NDF: 2097759.9/25

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1087.987+/-583.326  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: 1278.481+/-368.403  $\chi^2/\text{NDF}$ : 17.6/8

Right Out: 670.176+/-589.991  $\chi^2/\text{NDF}$ : 12.0/18

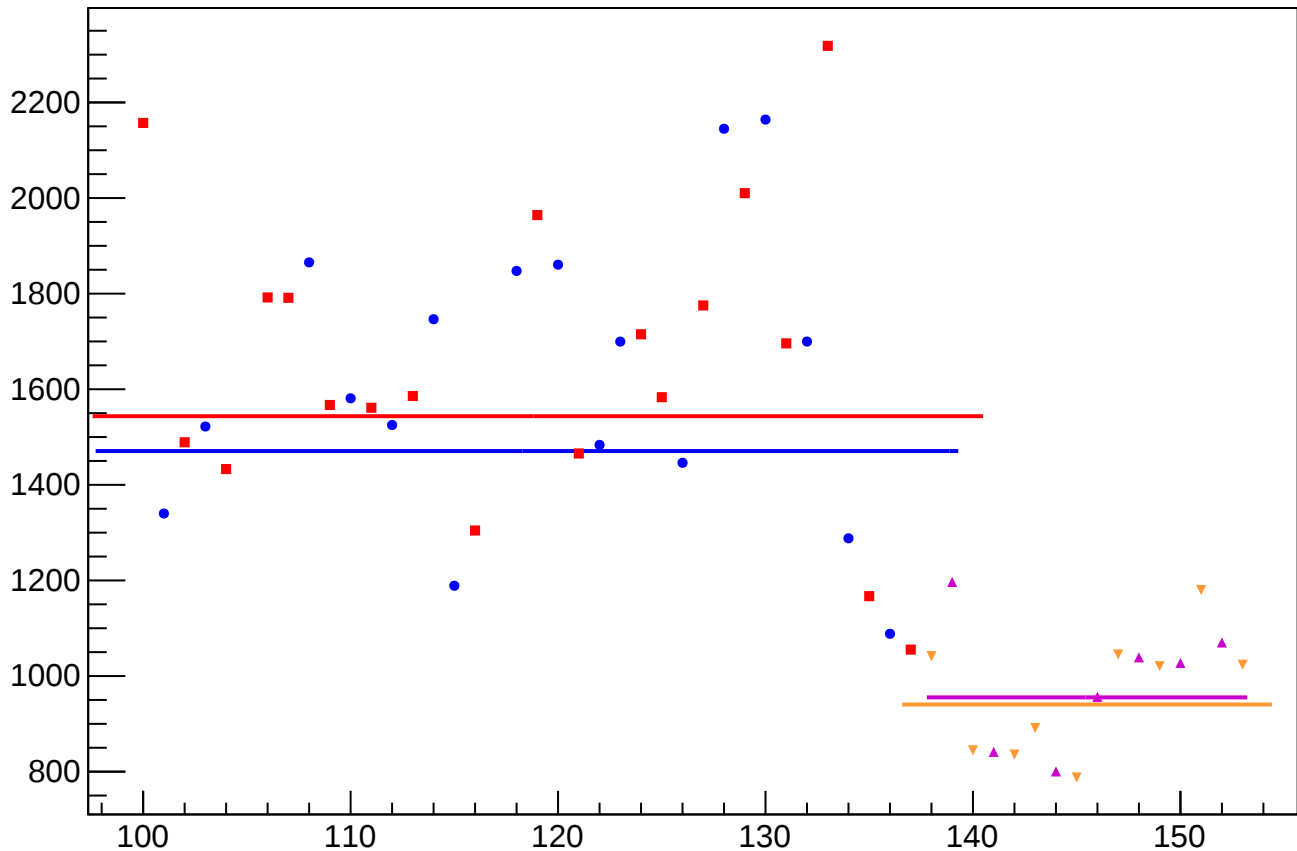
Left In: -92.370+/-400.442  $\chi^2/\text{NDF}$ : 8.2/6

+ sign 1224.165+/-311.484  $\chi^2/\text{NDF}$ : 39.5/25

All: 719.338+/-226.945  $\chi^2/\text{NDF}$ : 66.5/51

- sign 148.123+/-331.332  $\chi^2/\text{NDF}$ : 21.4/25

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1470.683 $\pm$ 0.412  $\chi^2$ /NDF: 567728.4/16

Left Out: 940.505 $\pm$ 0.261  $\chi^2$ /NDF: 210120.8/8

Right Out: 1543.589 $\pm$ 0.417  $\chi^2$ /NDF: 454253.5/18

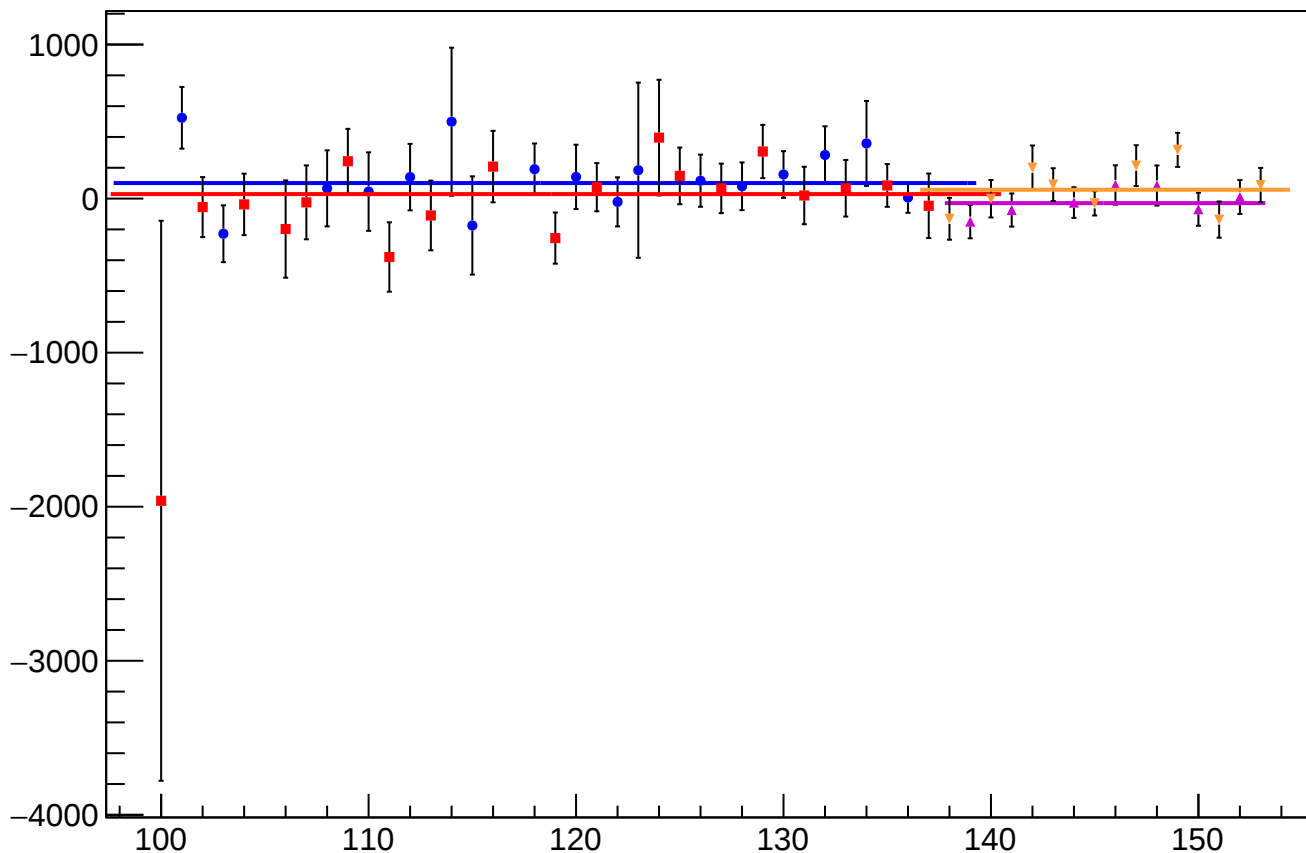
Left In: 955.375 $\pm$ 0.283  $\chi^2$ /NDF: 197037.5/6

+ sign 1091.676 $\pm$ 0.220  $\chi^2$ /NDF: 1958916.0/25

All: 1114.764 $\pm$ 0.160  $\chi^2$ /NDF: 3994627.1/51

- sign 1140.887 $\pm$ 0.234  $\chi^2$ /NDF: 2012290.9/25

# 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:  $57.417 \pm 37.496$   $\chi^2/\text{NDF}$ : 14.2/8

Right Out:  $29.152 \pm 45.695$   $\chi^2/\text{NDF}$ : 14.7/18

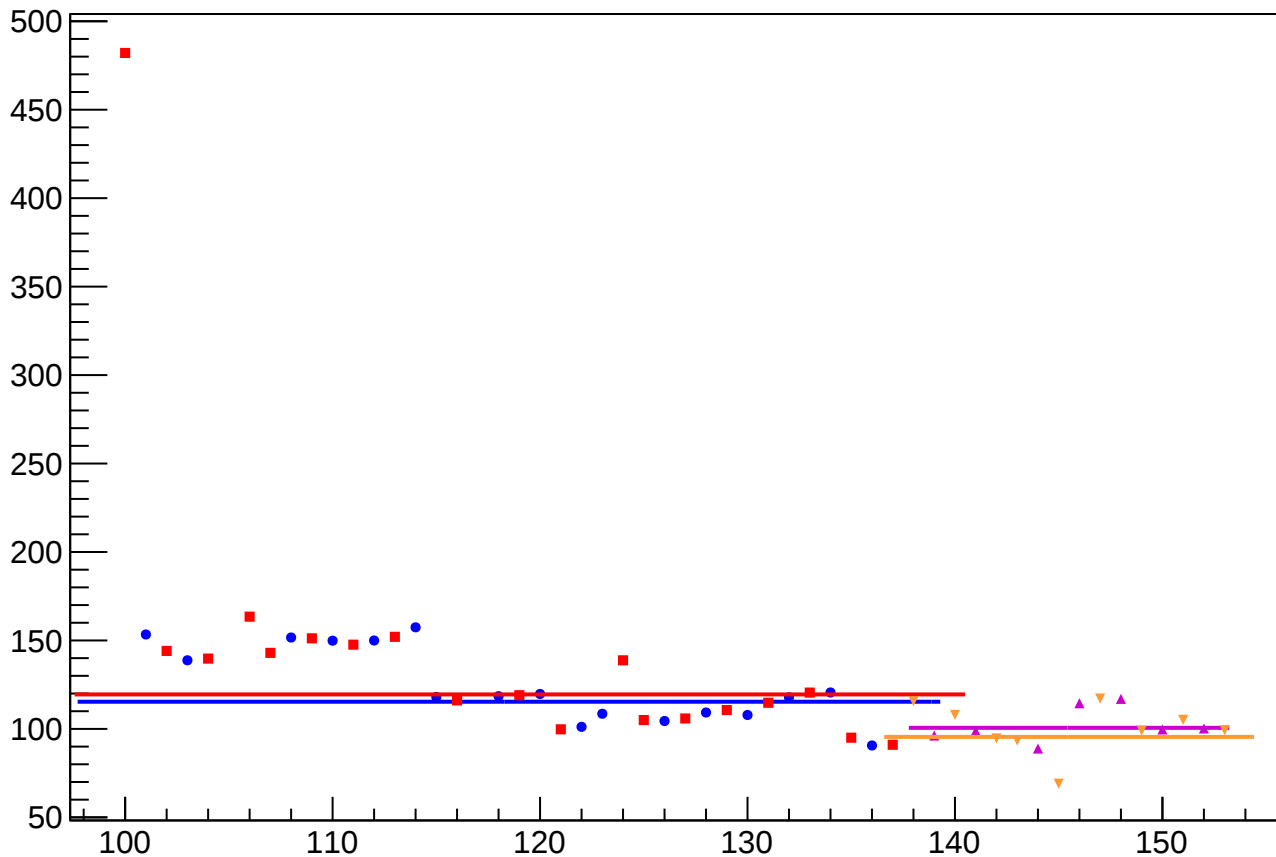
Left In:  $-29.372 \pm 42.177$   $\chi^2/\text{NDF}$ : 3.3/6

+ sign  $75.111 \pm 28.881$   $\chi^2/\text{NDF}$ : 27.7/25

All:  $39.064 \pm 21.129$   $\chi^2/\text{NDF}$ : 50.0/51

- sign  $-2.449 \pm 30.993$   $\chi^2/\text{NDF}$ : 18.9/25

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In:  $115.366 \pm 0.032$   $\chi^2/\text{NDF}$ : 411362.6/16

Left Out:  $95.488 \pm 0.027$   $\chi^2/\text{NDF}$ : 362389.4/8

Right Out:  $119.492 \pm 0.032$   $\chi^2/\text{NDF}$ : 477965.0/18

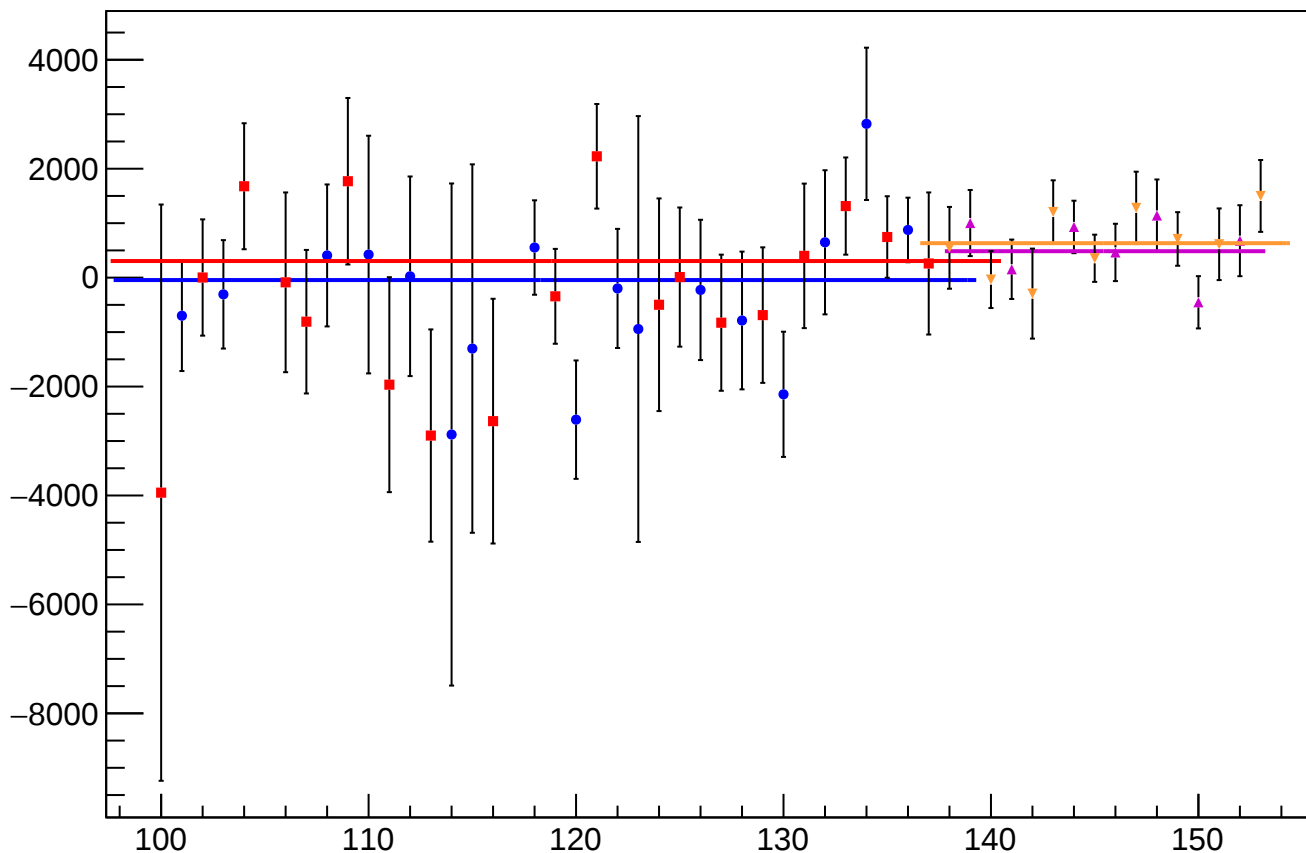
Left In:  $100.613 \pm 0.030$   $\chi^2/\text{NDF}$ : 86913.1/6

+ sign  $103.573 \pm 0.020$   $\chi^2/\text{NDF}$ : 1002397.3/25

All:  $106.234 \pm 0.015$   $\chi^2/\text{NDF}$ : 1788131.2/51

- sign  $109.298 \pm 0.022$   $\chi^2/\text{NDF}$ : 749214.2/25

# 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:  $632.703 \pm 195.396$   $\chi^2/\text{NDF}$ : 7.0/8

Right Out:  $304.797 \pm 282.708$   $\chi^2/\text{NDF}$ : 17.4/18

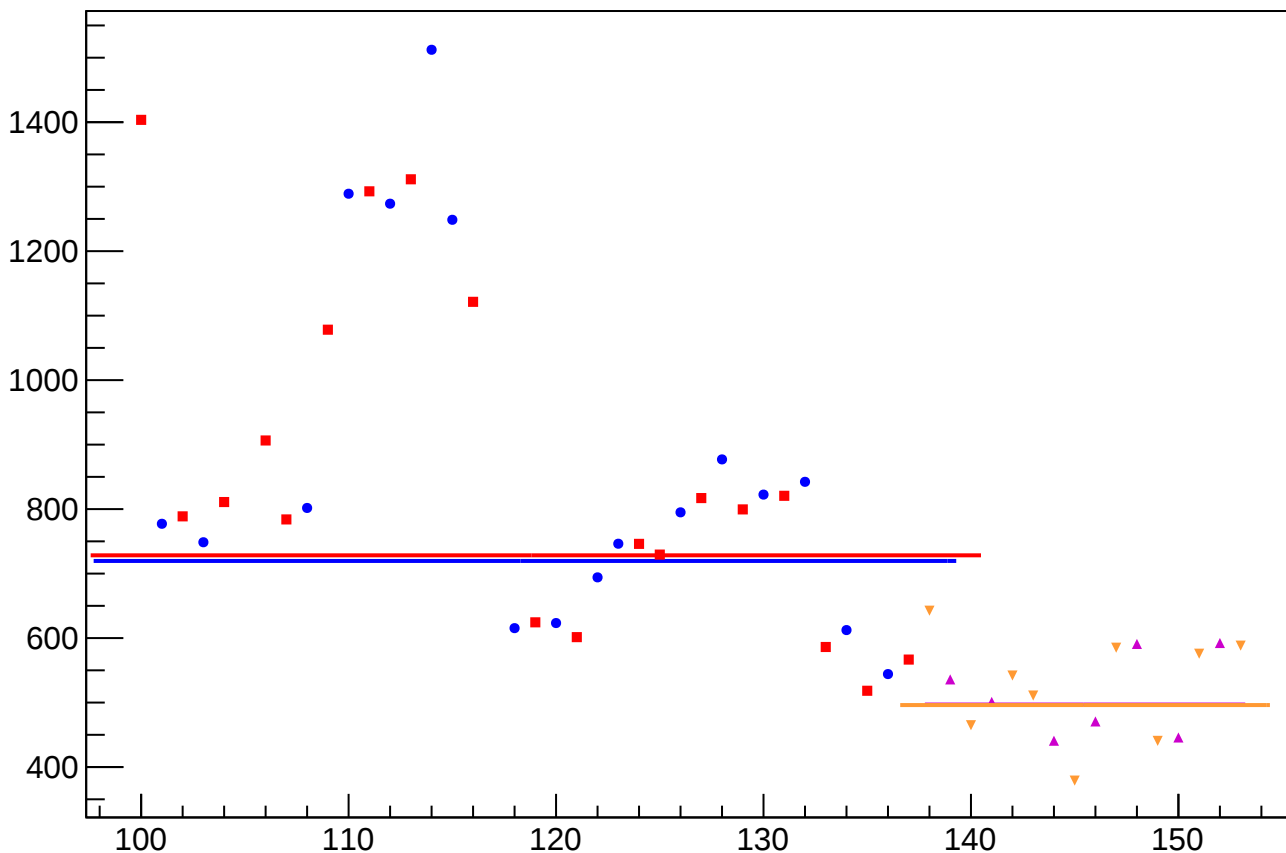
Left In:  $485.457 \pm 208.650$   $\chi^2/\text{NDF}$ : 6.8/6

+ sign  $417.472 \pm 161.389$   $\chi^2/\text{NDF}$ : 28.7/25

All:  $419.528 \pm 116.346$   $\chi^2/\text{NDF}$ : 53.2/51

- sign  $421.752 \pm 167.879$   $\chi^2/\text{NDF}$ : 24.5/25

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 496.138 $\pm$ 0.138  $\chi^2$ /NDF:366396.2/8

Right Out: 728.331 $\pm$ 0.200  $\chi^2$ /NDF: 913667.8/18

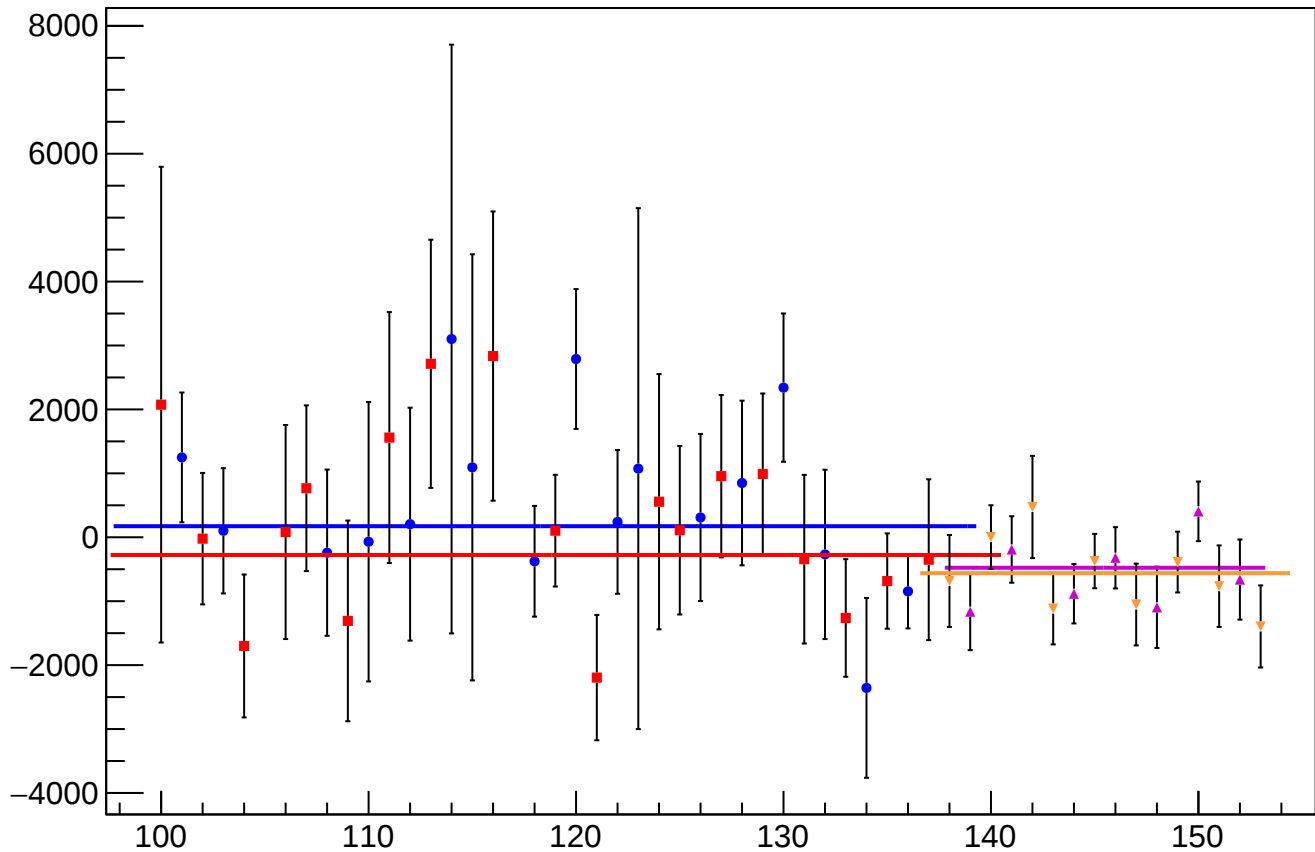
Left In: 496.969 $\pm$ 0.148  $\chi^2$ /NDF:146290.9/6

+ sign 567.155 $\pm$ 0.114  $\chi^2$ /NDF: 1944685.5/25

All: 572.630 $\pm$ 0.082  $\chi^2$ /NDF: 3876578.8/51

- sign 578.553 $\pm$ 0.119  $\chi^2$ /NDF: 1927102.2/25

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In:  $173.182 \pm 285.672$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $-561.691 \pm 188.990$   $\chi^2/\text{NDF}$ : 6.7/8

Right Out:  $-277.145 \pm 282.726$   $\chi^2/\text{NDF}$ : 16.0/18

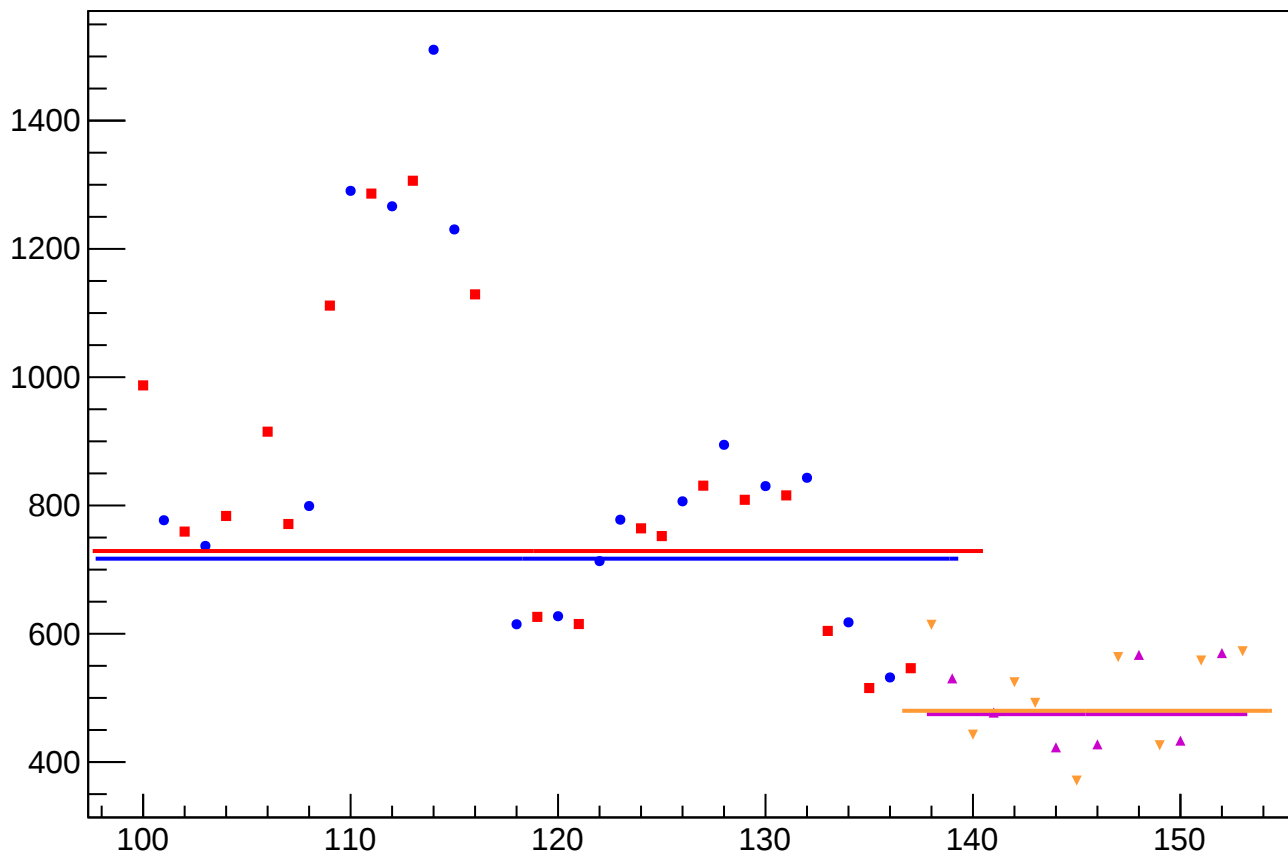
Left In:  $-476.950 \pm 199.731$   $\chi^2/\text{NDF}$ : 7.1/6

+ sign  $-337.975 \pm 157.620$   $\chi^2/\text{NDF}$ : 29.4/25

All:  $-372.959 \pm 113.352$   $\chi^2/\text{NDF}$ : 52.9/51

- sign  $-410.431 \pm 163.130$   $\chi^2/\text{NDF}$ : 23.5/25

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.083+/-0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 479.921+/-0.134  $\chi^2/\text{NDF}$ : 350831.8/8

Right Out: 728.989+/-0.200  $\chi^2/\text{NDF}$ : 890725.1/18

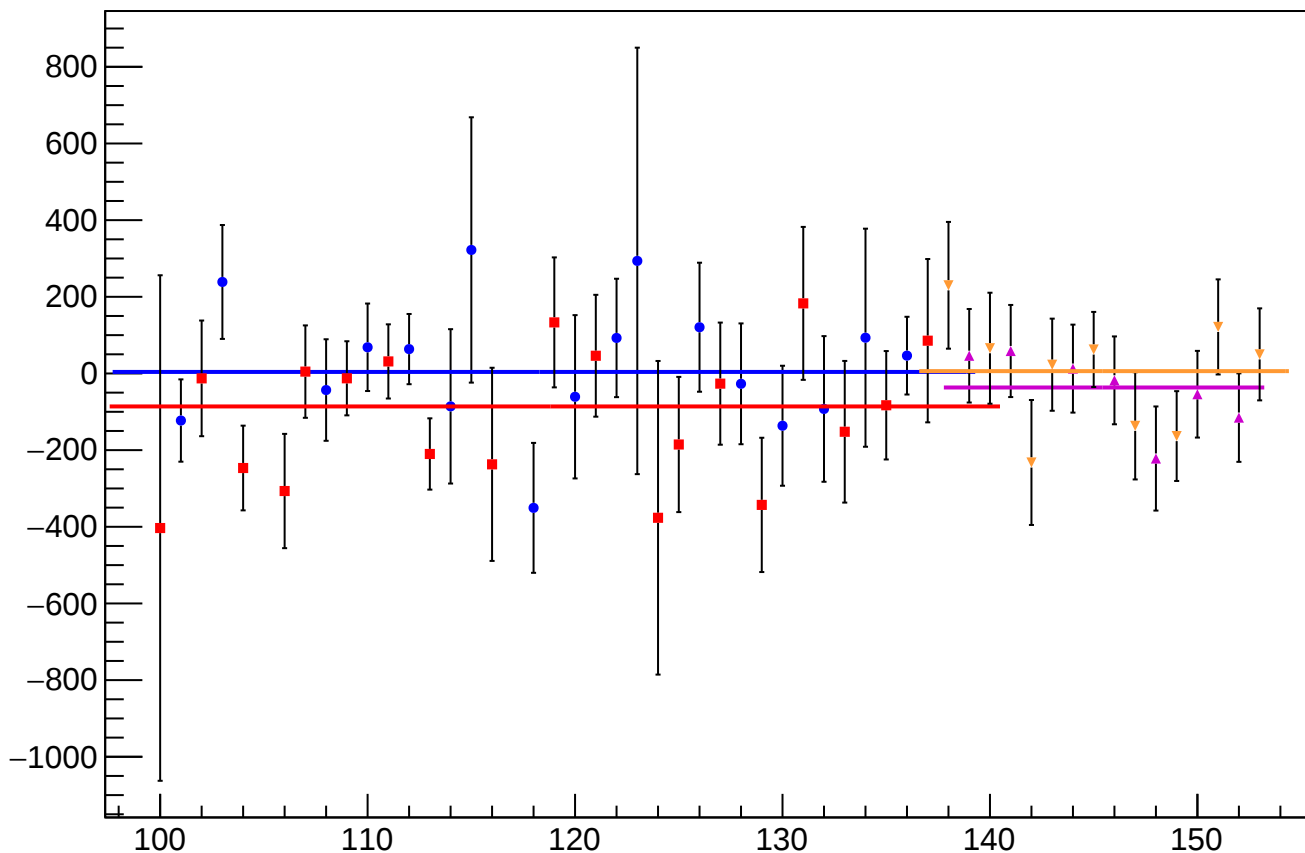
Left In: 474.689+/-0.141  $\chi^2/\text{NDF}$ : 165344.0/6

+ sign 552.120+/-0.111  $\chi^2/\text{NDF}$ : 2092075.6/25

All: 555.611+/-0.080  $\chi^2/\text{NDF}$ : 4229544.8/51

- sign 559.351+/-0.115  $\chi^2/\text{NDF}$ : 2135436.9/25

# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}$ : 12.7/16

Left Out:  $6.102 \pm 42.502$   $\chi^2/\text{NDF}$ : 8.6/8

Right Out:  $-86.020 \pm 33.370$   $\chi^2/\text{NDF}$ : 17.6/18

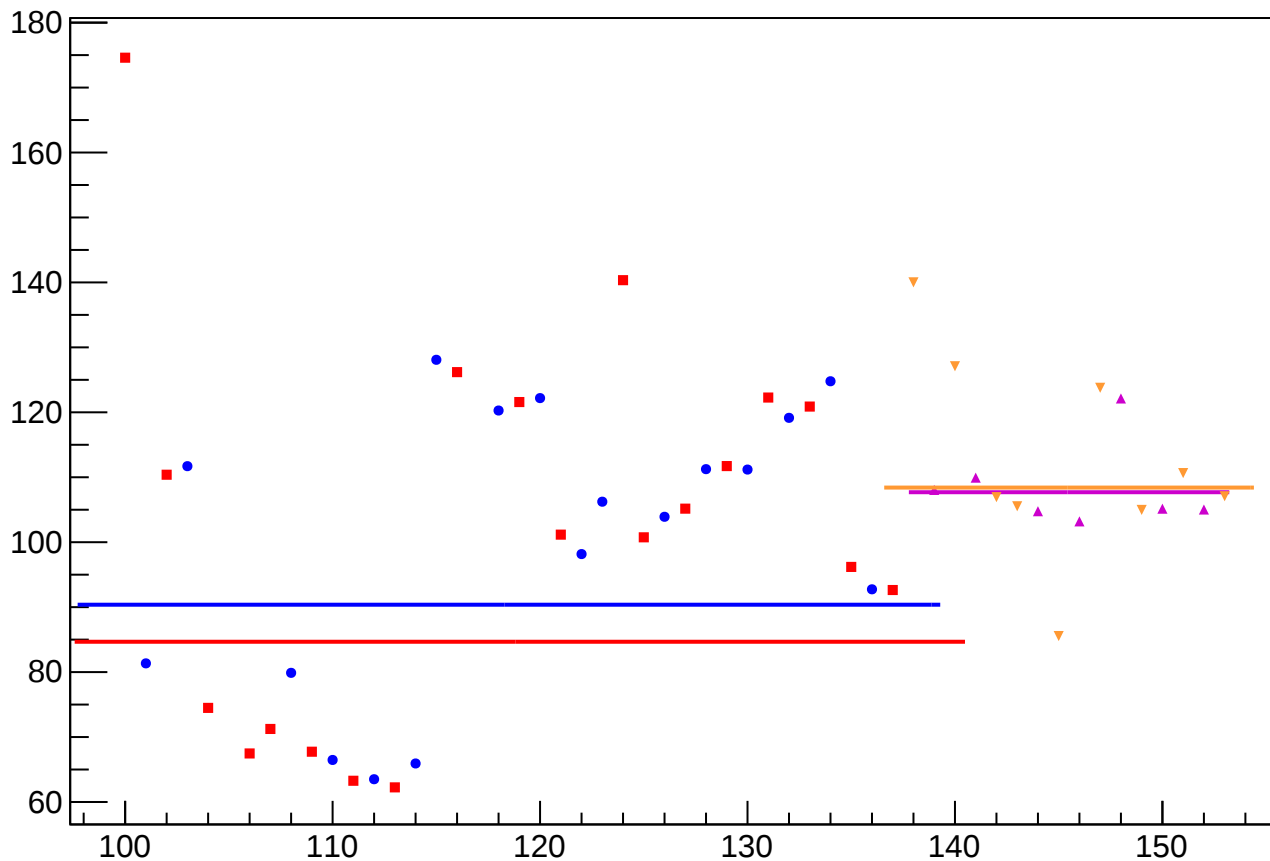
Left In:  $-36.583 \pm 44.905$   $\chi^2/\text{NDF}$ : 3.6/6

+ sign  $4.883 \pm 27.448$   $\chi^2/\text{NDF}$ : 21.4/25

All:  $-32.671 \pm 19.170$   $\chi^2/\text{NDF}$ : 47.0/51

- sign  $-68.431 \pm 26.784$   $\chi^2/\text{NDF}$ : 22.0/25

dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In:  $90.375 \pm 0.025$   $\chi^2/\text{NDF}$ : 654139.7/16

Left Out:  $108.412 \pm 0.030$   $\chi^2/\text{NDF}$ : 243156.3/8

Right Out:  $84.673 \pm 0.024$   $\chi^2/\text{NDF}$ : 908123.4/18

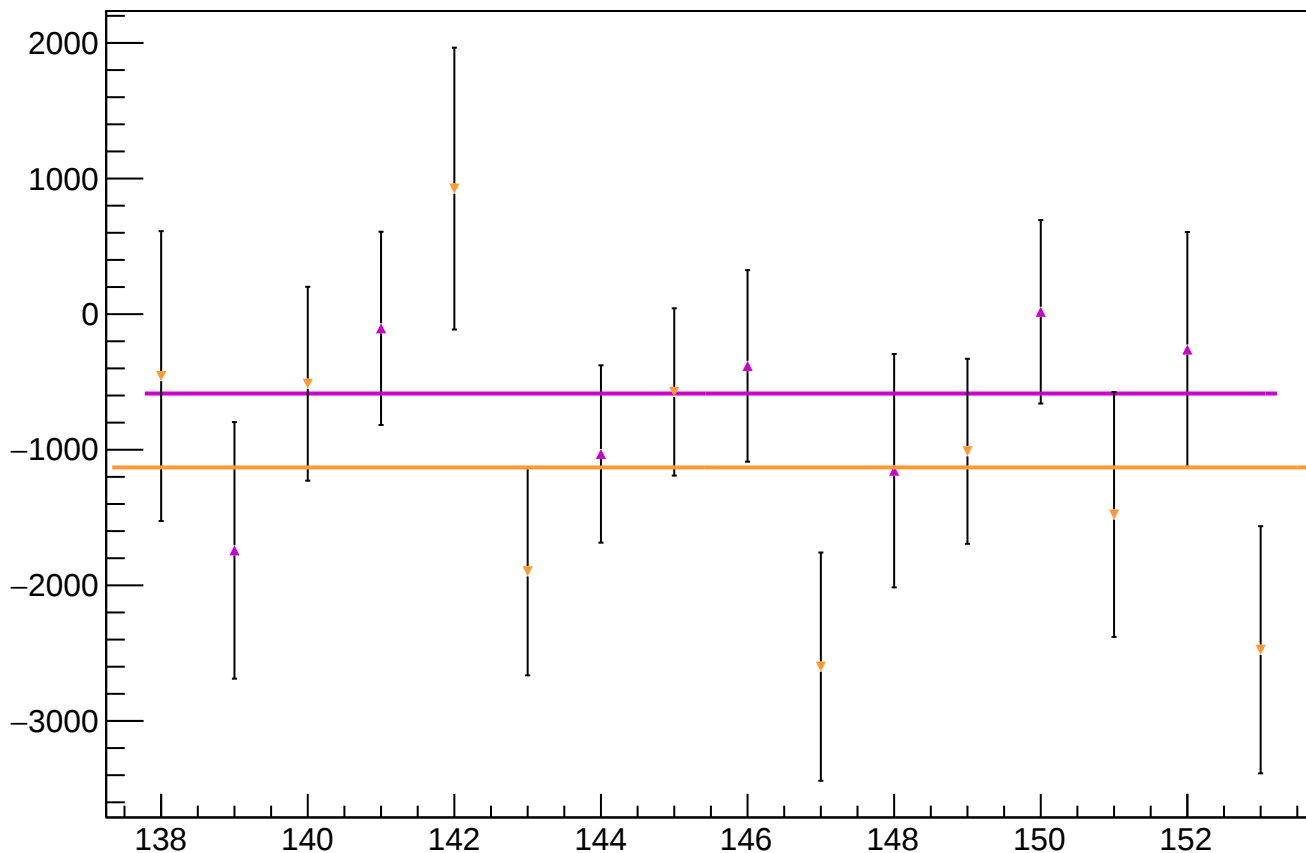
Left In:  $107.696 \pm 0.032$   $\chi^2/\text{NDF}$ : 29745.1/6

+ sign  $97.898 \pm 0.019$   $\chi^2/\text{NDF}$ : 1107267.7/25

All:  $95.319 \pm 0.014$   $\chi^2/\text{NDF}$ : 2418309.3/51

- sign  $92.864 \pm 0.019$   $\chi^2/\text{NDF}$ : 1276585.5/25

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1130.500+/-266.544  $\chi^2/\text{NDF}$ :12.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

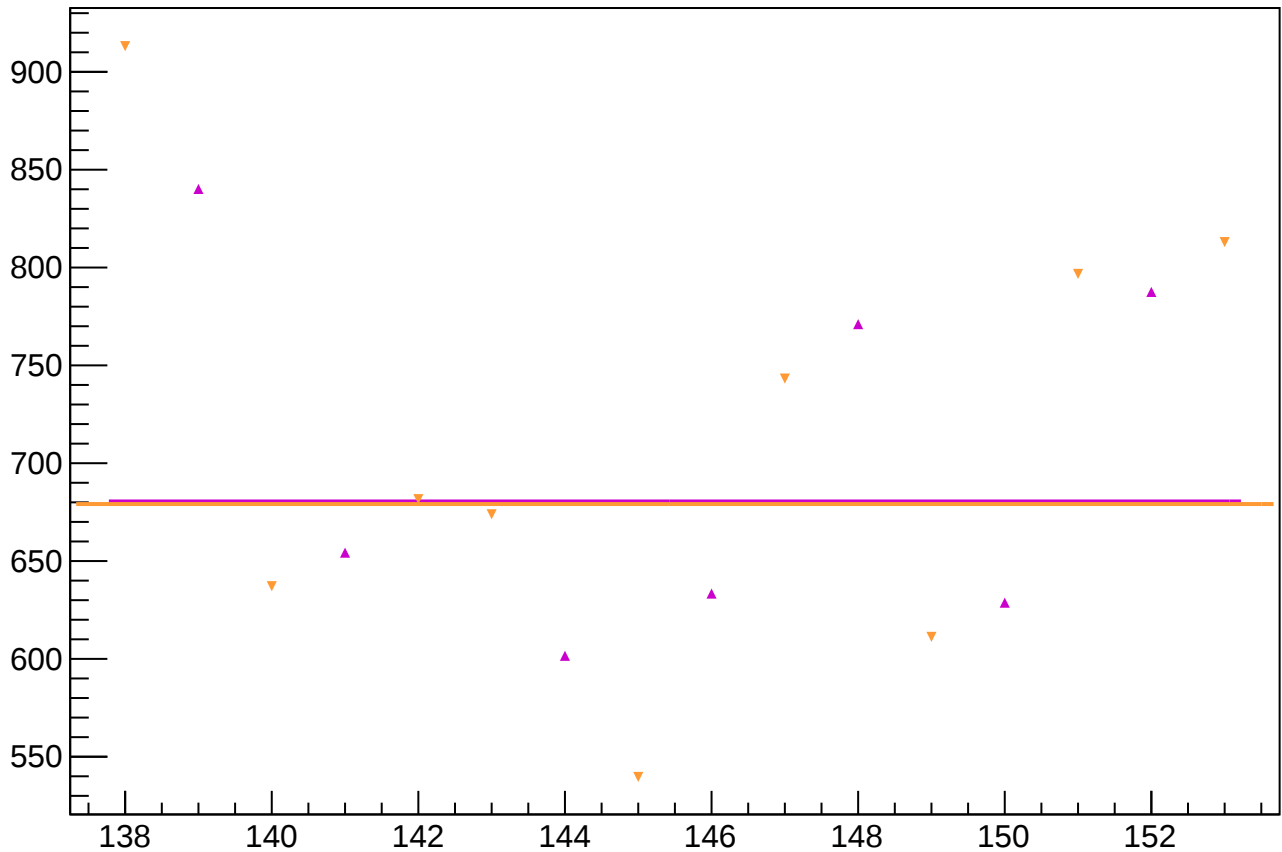
Left In: -585.371+/-285.203  $\chi^2/\text{NDF}$ :3.9/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -876.350+/-194.738  $\chi^2/\text{NDF}$ : 18.1/15

- 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: 679.129+/-0.188  $\chi^2/\text{NDF}$ :313601.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

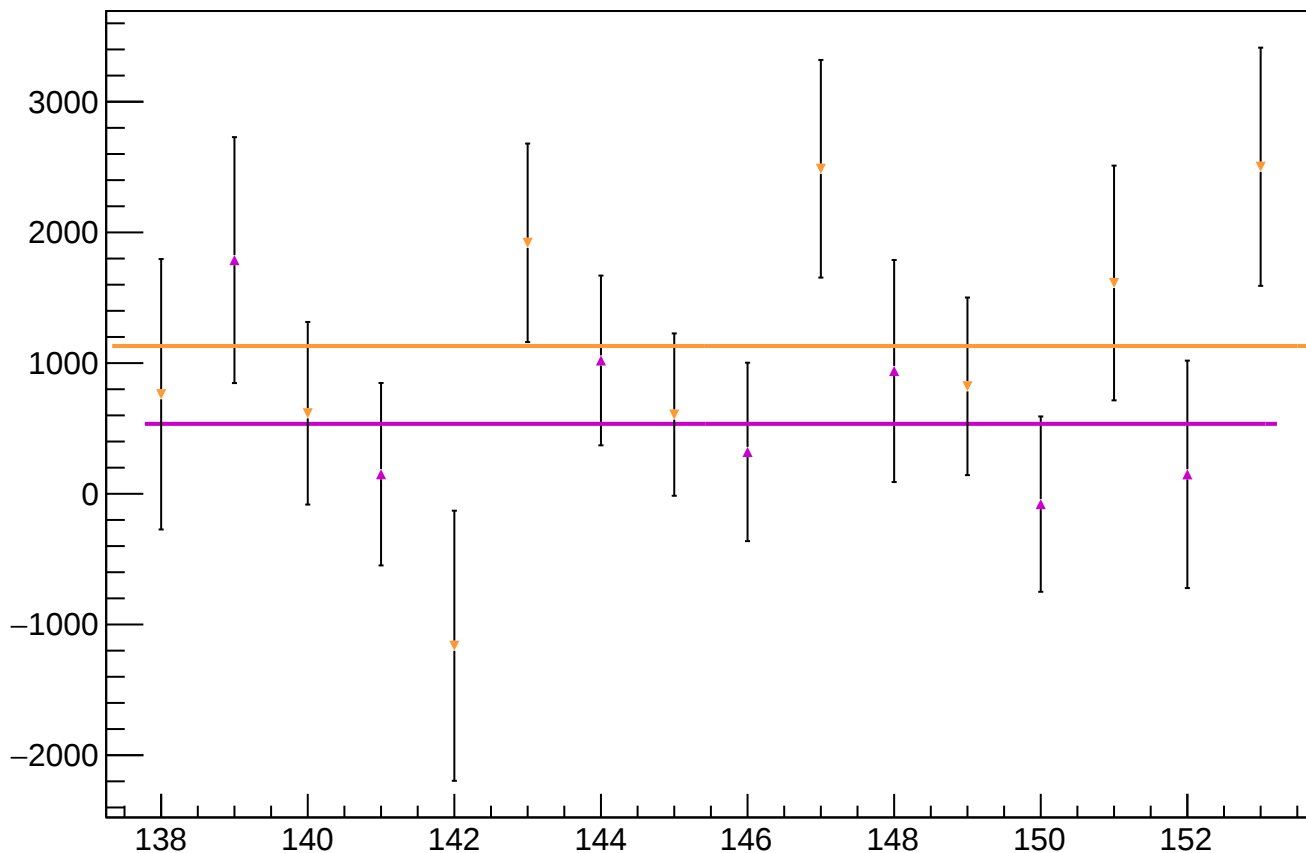
Left In: 680.451+/-0.202  $\chi^2/\text{NDF}$ :162052.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 679.745+/-0.138  $\chi^2/\text{NDF}$ : 475676.5/15

- 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: 1130.841+/-264.463  $\chi^2/\text{NDF}$ : 12.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

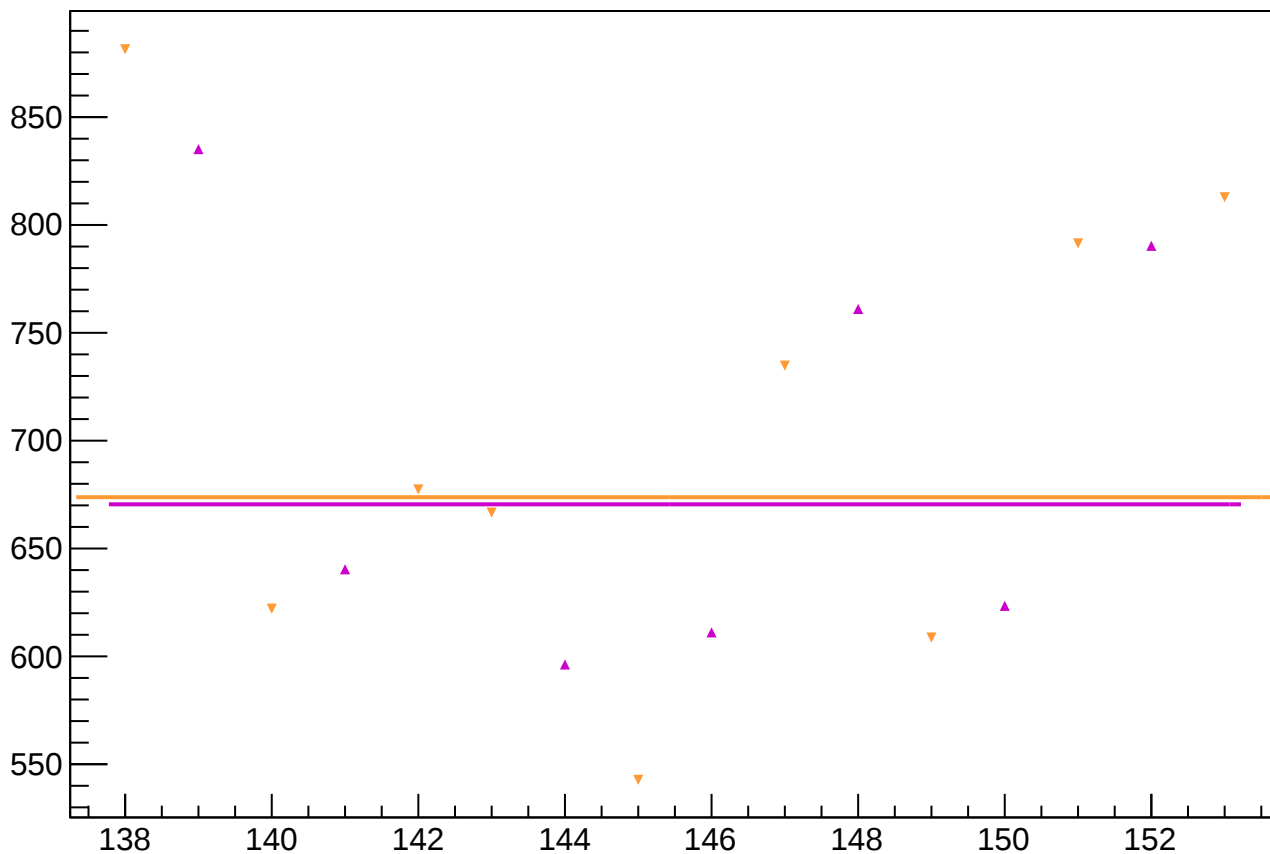
Left In: 535.172+/-281.409  $\chi^2/\text{NDF}$ : 4.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 851.481+/-192.716  $\chi^2/\text{NDF}$ : 19.2/15

- 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: 673.792+/-0.187  $\chi^2/\text{NDF}$ :290728.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

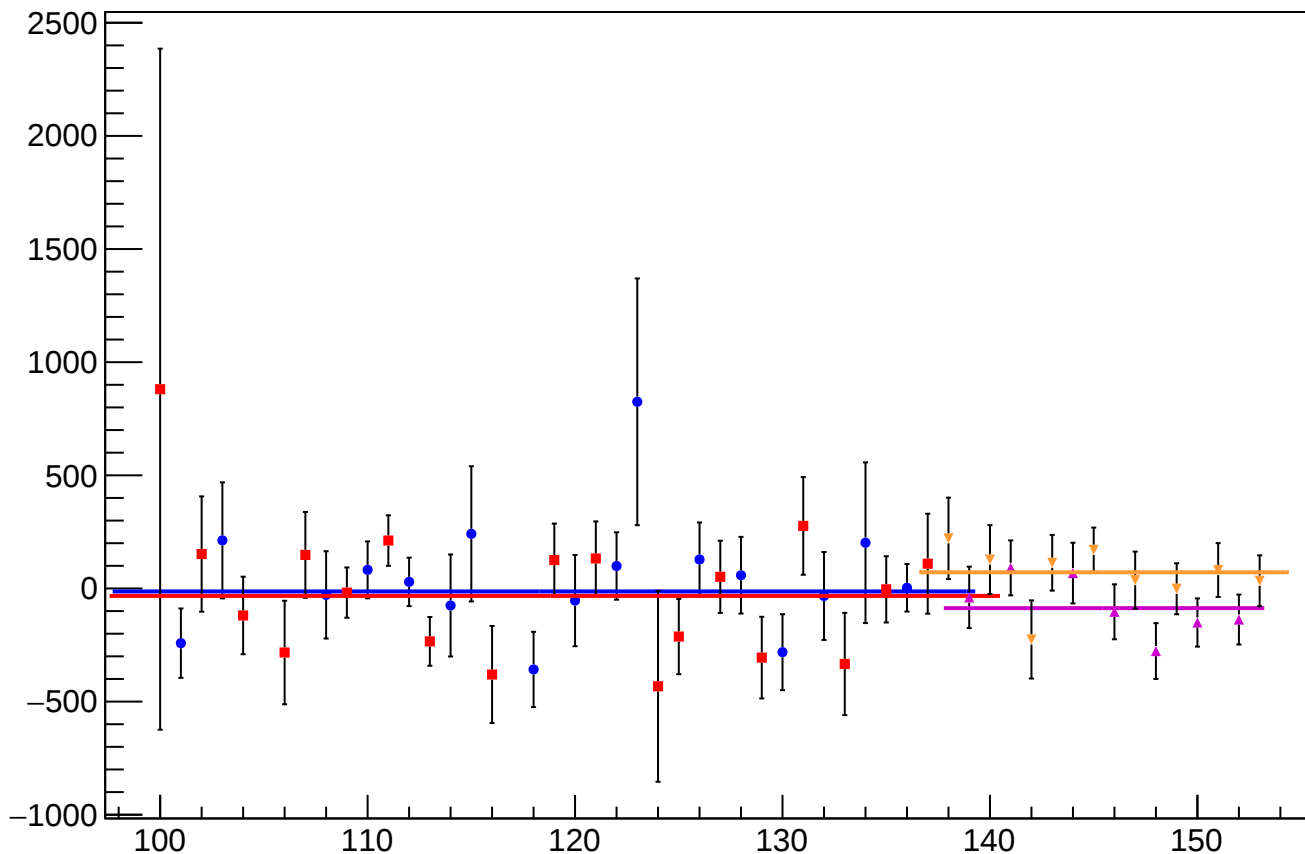
Left In: 670.495+/-0.199  $\chi^2/\text{NDF}$ :176791.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 672.246+/-0.136  $\chi^2/\text{NDF}$ : 467665.9/15

- 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:  $71.388 \pm 41.939$   $\chi^2/\text{NDF}$ : 5.5/8

Right Out:  $-33.027 \pm 38.878$   $\chi^2/\text{NDF}$ : 25.1/18

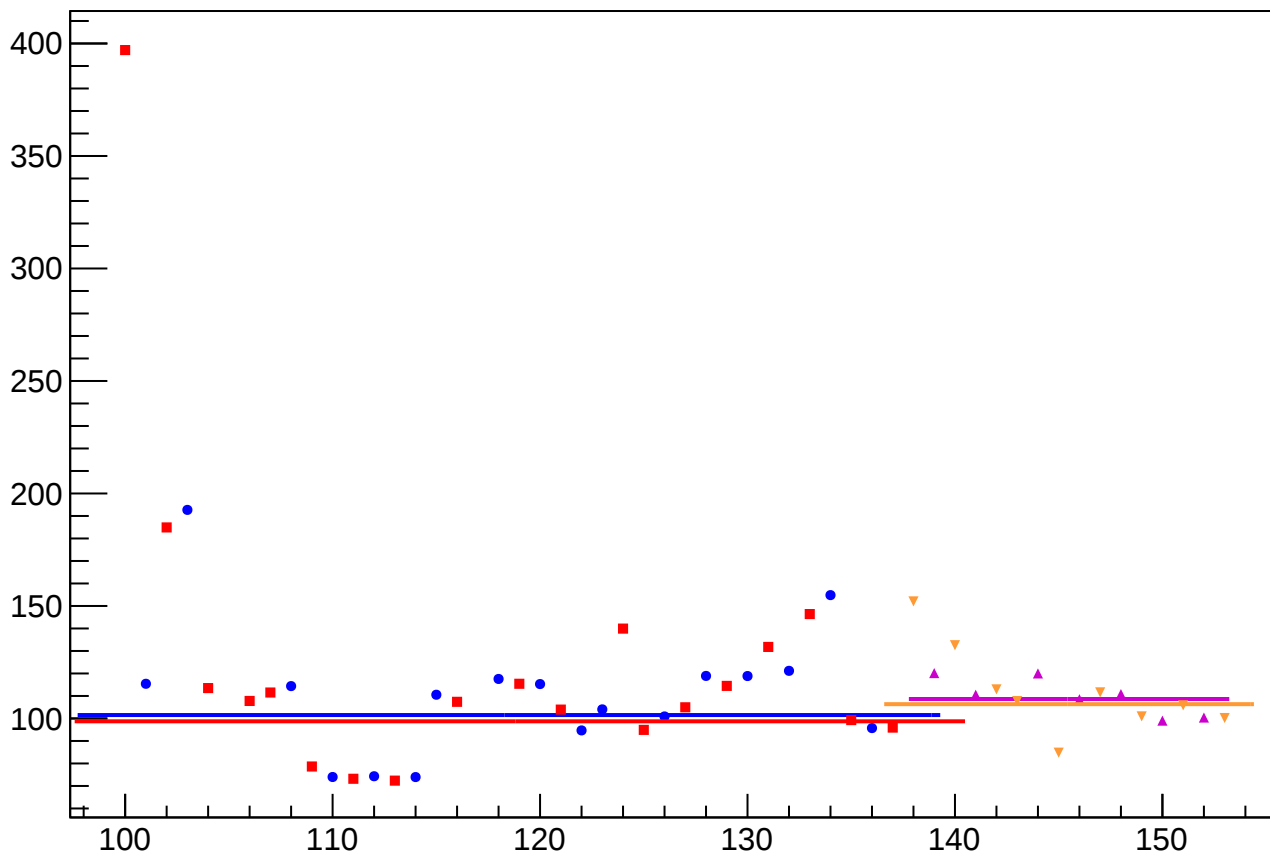
Left In:  $-87.008 \pm 45.580$   $\chi^2/\text{NDF}$ : 6.6/6

+ sign  $27.666 \pm 29.153$   $\chi^2/\text{NDF}$ : 23.3/25

All:  $-13.442 \pm 20.763$   $\chi^2/\text{NDF}$ : 59.8/51

- sign  $-55.761 \pm 29.579$   $\chi^2/\text{NDF}$ : 32.4/25

# dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 101.519 $\pm$ 0.029  $\chi^2$ /NDF: 681713.7/16

Left Out: 106.356 $\pm$ 0.030  $\chi^2$ /NDF:301585.2/8

Right Out: 98.736 $\pm$ 0.027  $\chi^2$ /NDF: 825631.4/18

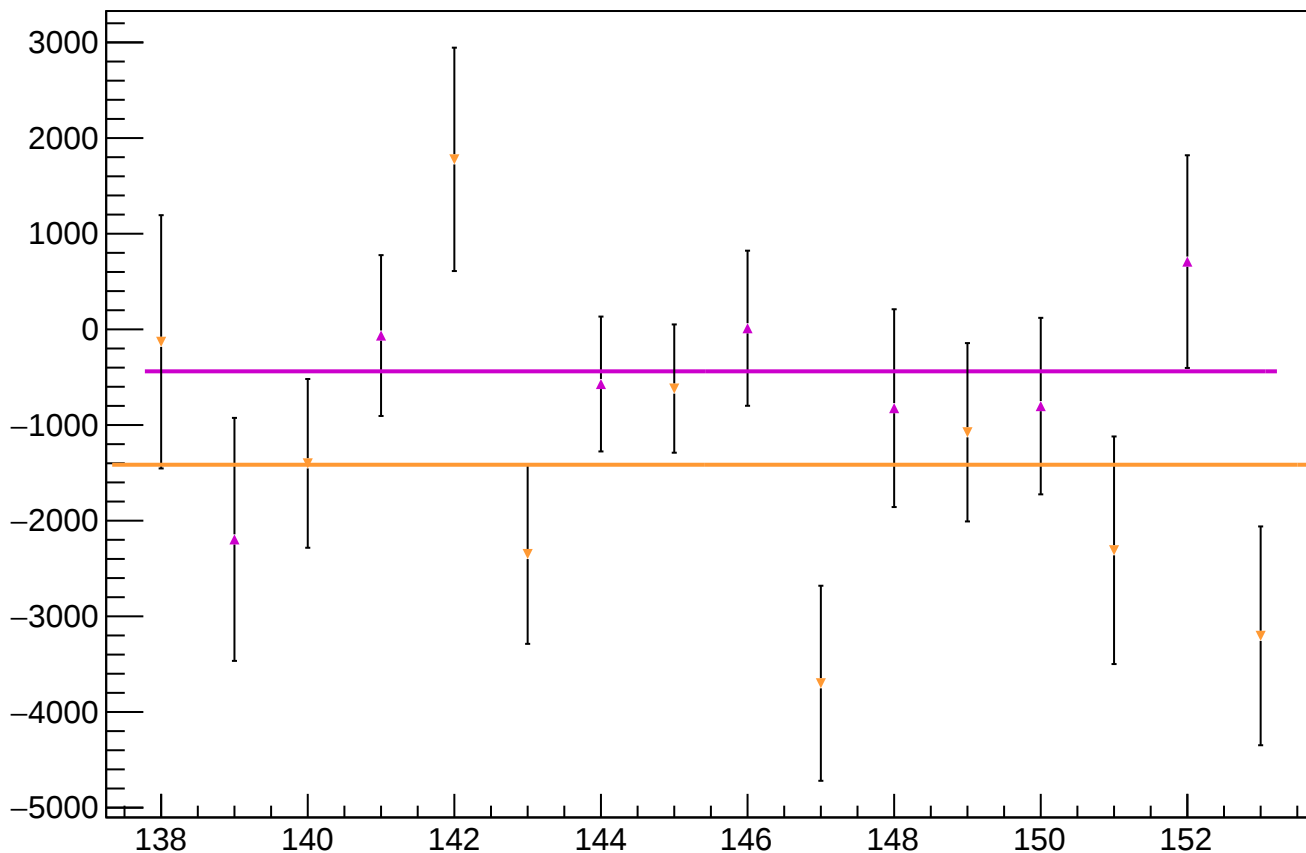
Left In: 108.654 $\pm$ 0.032  $\chi^2$ /NDF:57311.4/6

+ sign 103.856 $\pm$ 0.021  $\chi^2$ /NDF: 997045.1/25

All: 103.391 $\pm$ 0.015  $\chi^2$ /NDF: 1935840.7/51

- sign 102.913 $\pm$ 0.021  $\chi^2$ /NDF: 937763.9/25

# asym\_sam\_3748\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1415.199 $\pm$ 323.930  $\chi^2$ /NDF:19.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

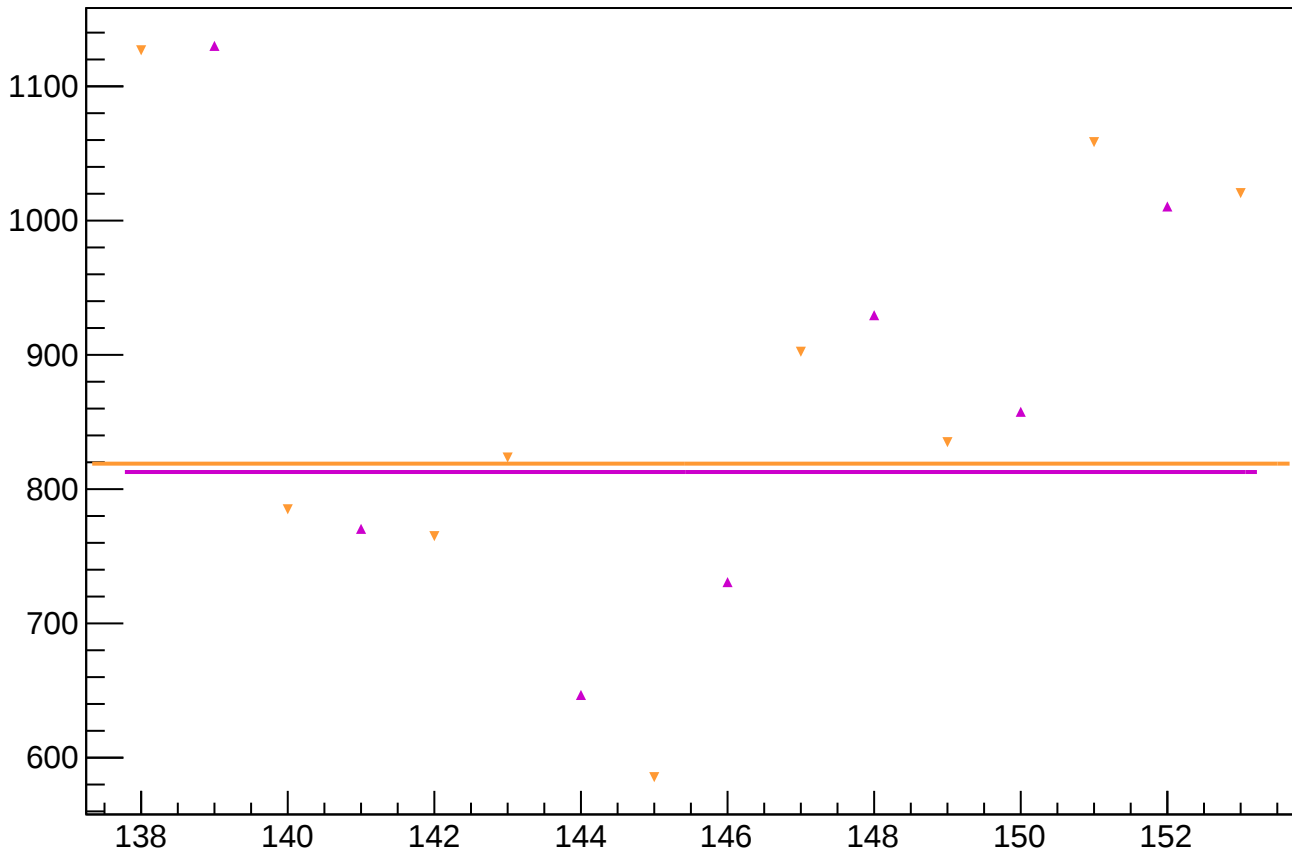
Left In: -438.706 $\pm$ 343.265  $\chi^2$ /NDF:3.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -955.227 $\pm$ 235.592  $\chi^2$ /NDF: 27.1/15

- 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: 818.988+/-0.229  $\chi^2/\text{NDF}$ :514978.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

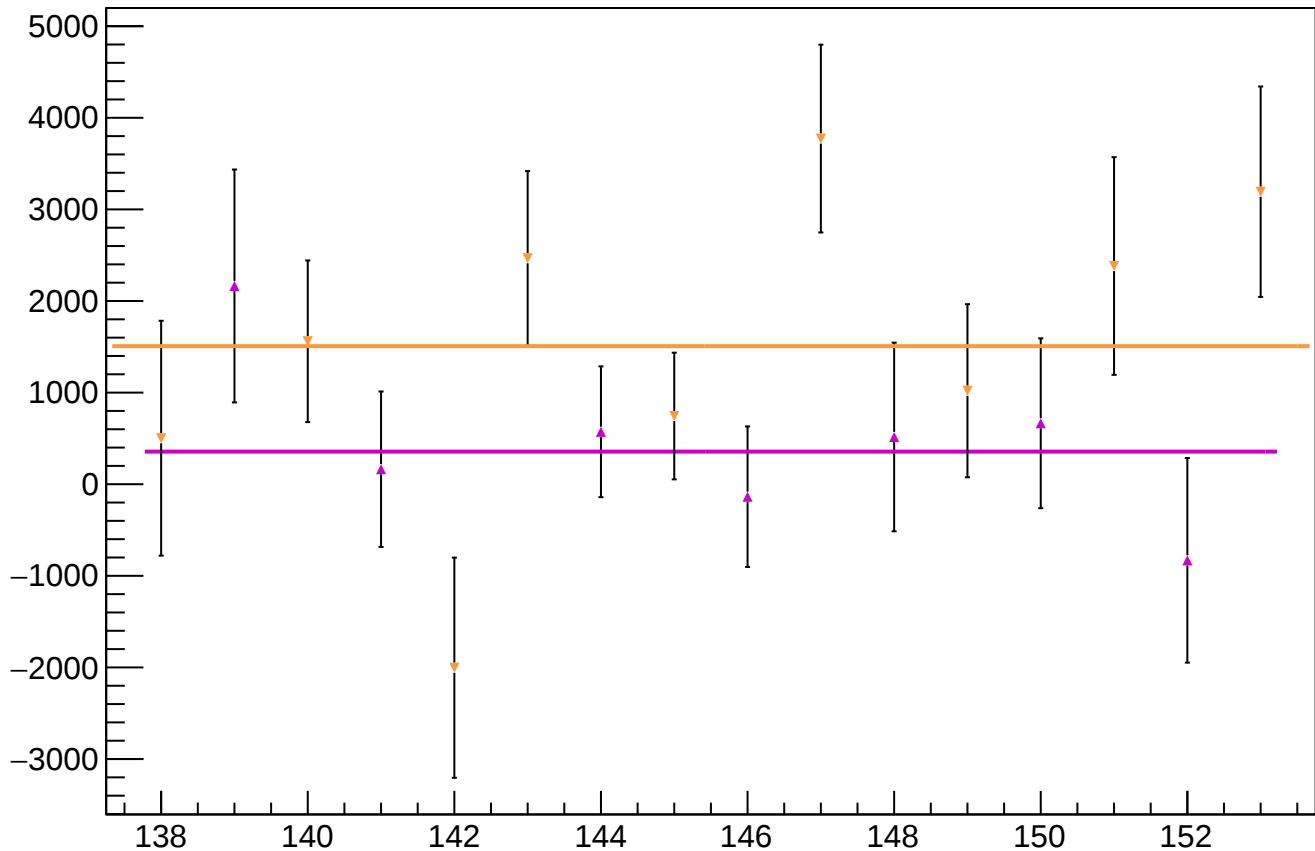
Left In: 812.756+/-0.243  $\chi^2/\text{NDF}$ :354855.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 816.052+/-0.167  $\chi^2/\text{NDF}$ : 870182.0/15

- 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: 1507.173+/-327.560  $\chi^2/\text{NDF}$ : 19.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

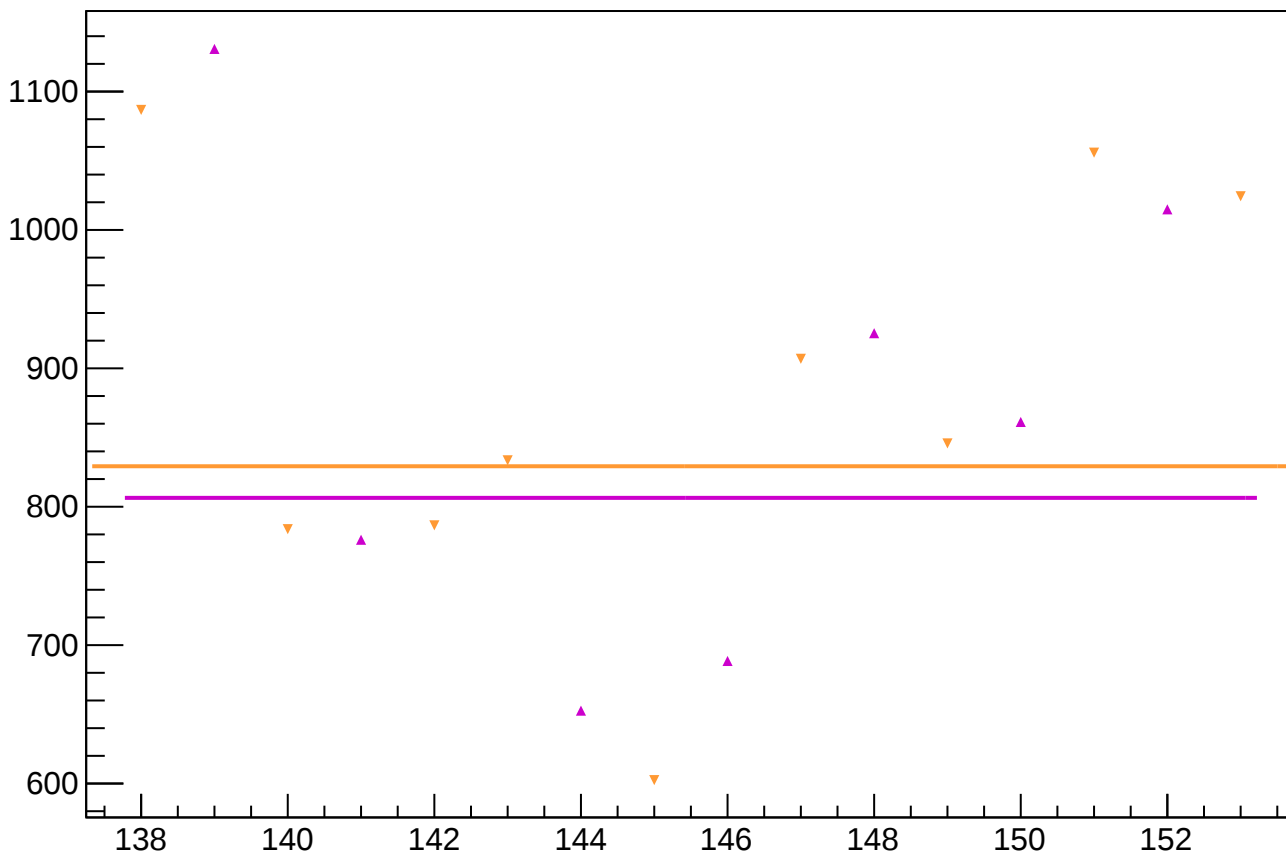
Left In: 355.937+/-341.413  $\chi^2/\text{NDF}$ : 3.8/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 955.383+/-236.366  $\chi^2/\text{NDF}$ : 29.0/15

- 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: 829.251+/-0.232  $\chi^2/\text{NDF}$ : 446226.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

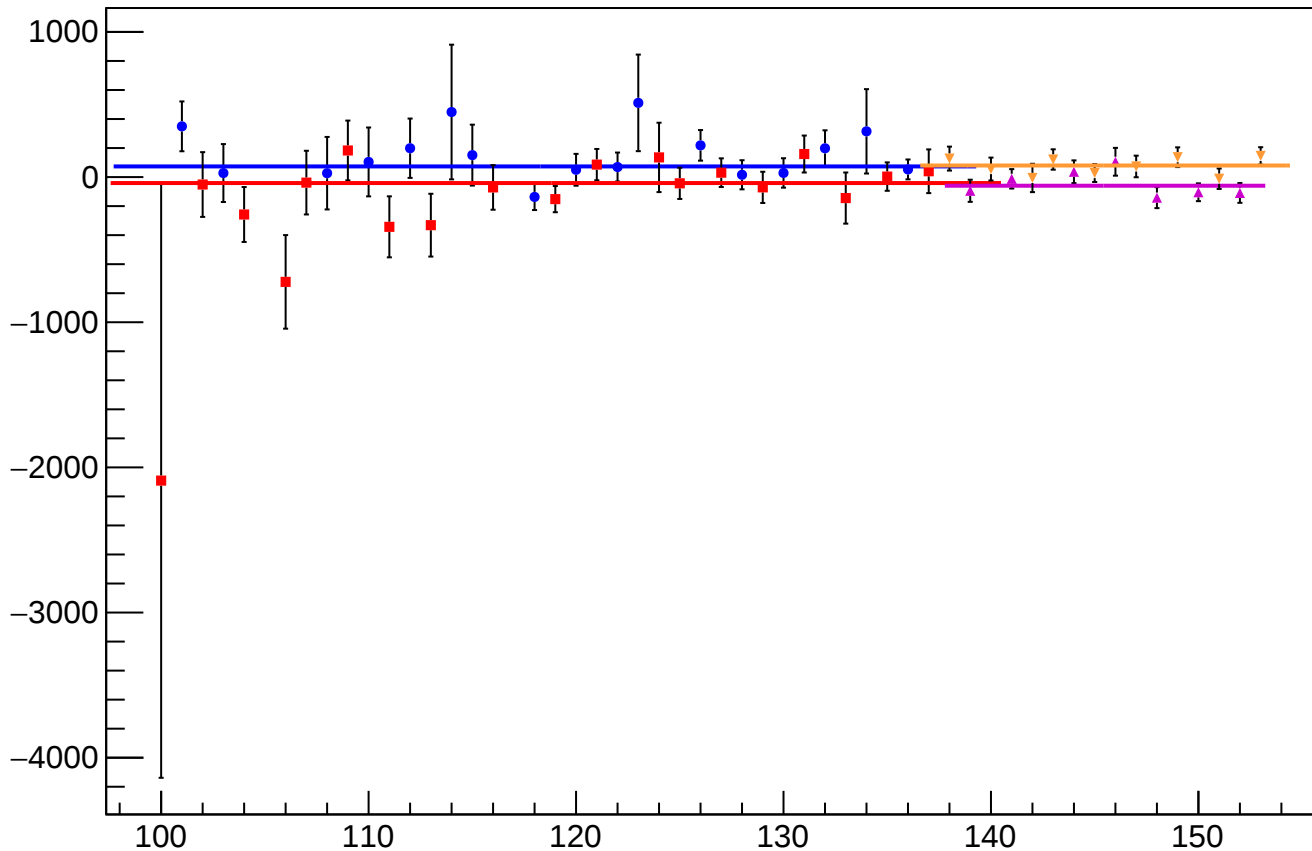
Left In: 806.414+/-0.241  $\chi^2/\text{NDF}$ : 376152.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 818.305+/-0.167  $\chi^2/\text{NDF}$ : 827038.4/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 73.448 $\pm$ 31.060  $\chi^2$ /NDF: 15.3/16

Left Out: 79.844 $\pm$ 23.844  $\chi^2$ /NDF: 5.9/8

Right Out: -41.118 $\pm$ 32.741  $\chi^2$ /NDF: 19.2/18

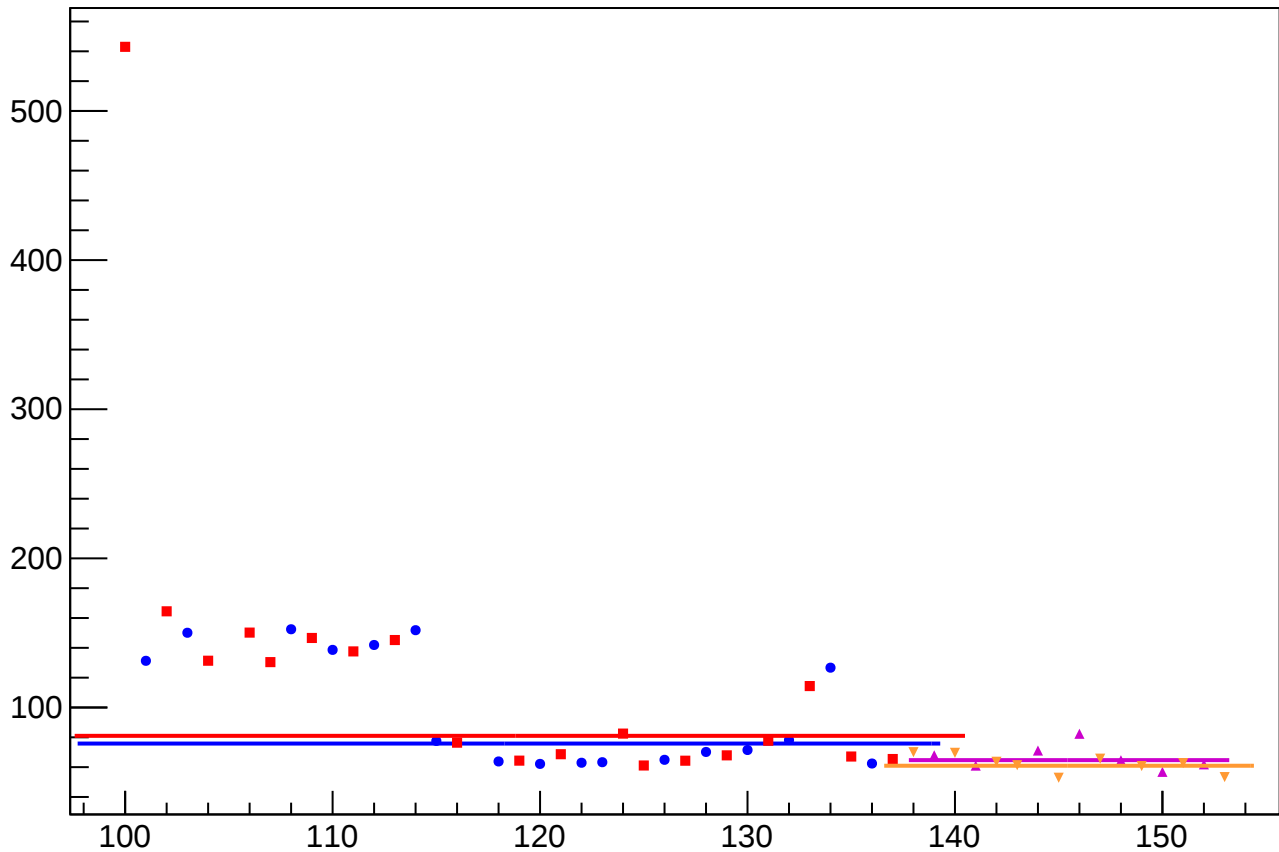
Left In: -59.555 $\pm$ 27.301  $\chi^2$ /NDF: 7.6/6

+ sign 77.472 $\pm$ 18.914  $\chi^2$ /NDF: 21.2/25

All: 19.390 $\pm$ 14.044  $\chi^2$ /NDF: 69.2/51

- sign -51.993 $\pm$ 20.968  $\chi^2$ /NDF: 27.0/25

# dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 75.820 $\pm$ 0.022  $\chi^2$ /NDF: 1349961.8/16

Left Out: 60.946 $\pm$ 0.017  $\chi^2$ /NDF: 126025.4/8

Right Out: 80.999 $\pm$ 0.023  $\chi^2$ /NDF: 1627899.8/18

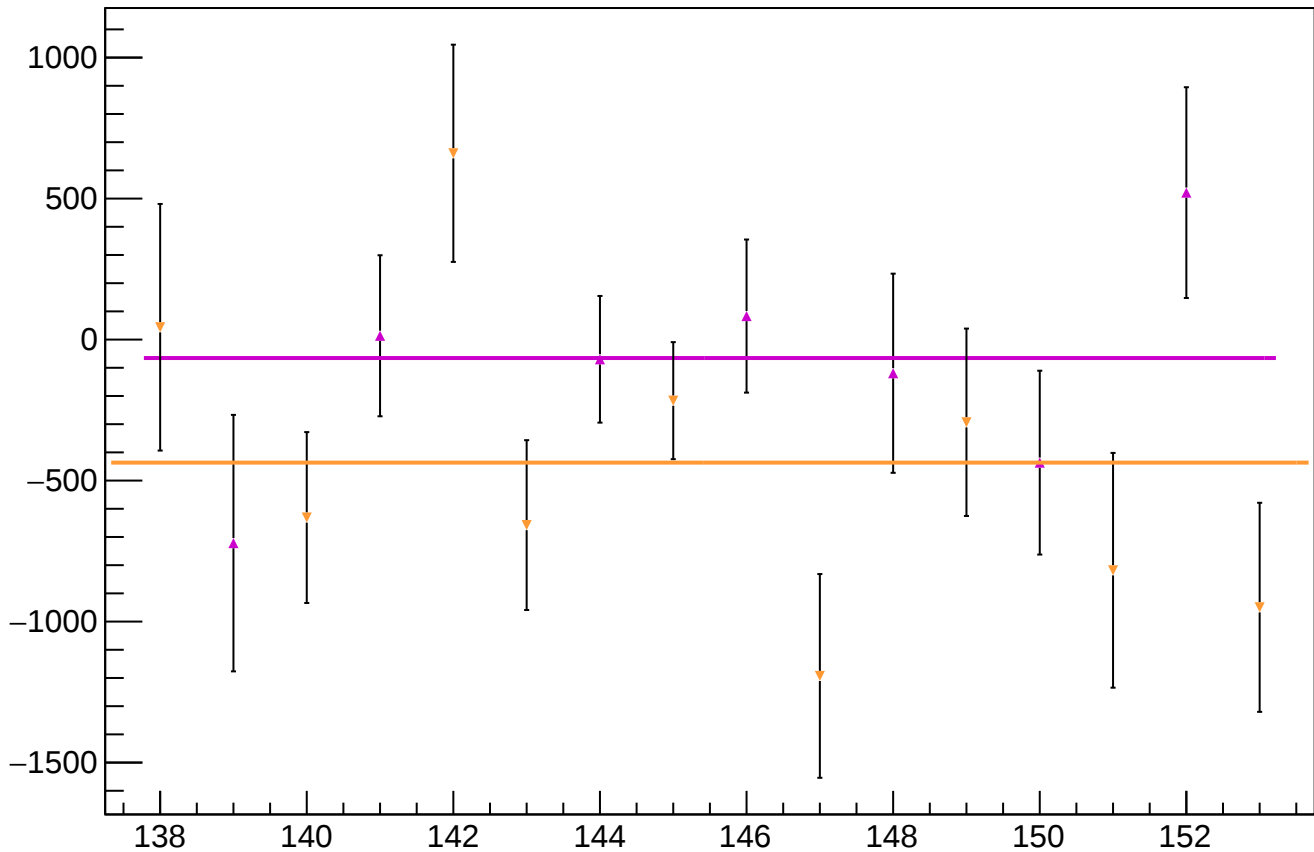
Left In: 64.707 $\pm$ 0.019  $\chi^2$ /NDF: 127728.5/6

+ sign 66.461 $\pm$ 0.013  $\chi^2$ /NDF: 1764568.5/25

All: 68.672 $\pm$ 0.010  $\chi^2$ /NDF: 3873249.2/51

- sign 71.389 $\pm$ 0.015  $\chi^2$ /NDF: 2047763.9/25

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -436.278+/-107.287  $\chi^2/\text{NDF}$ : 18.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

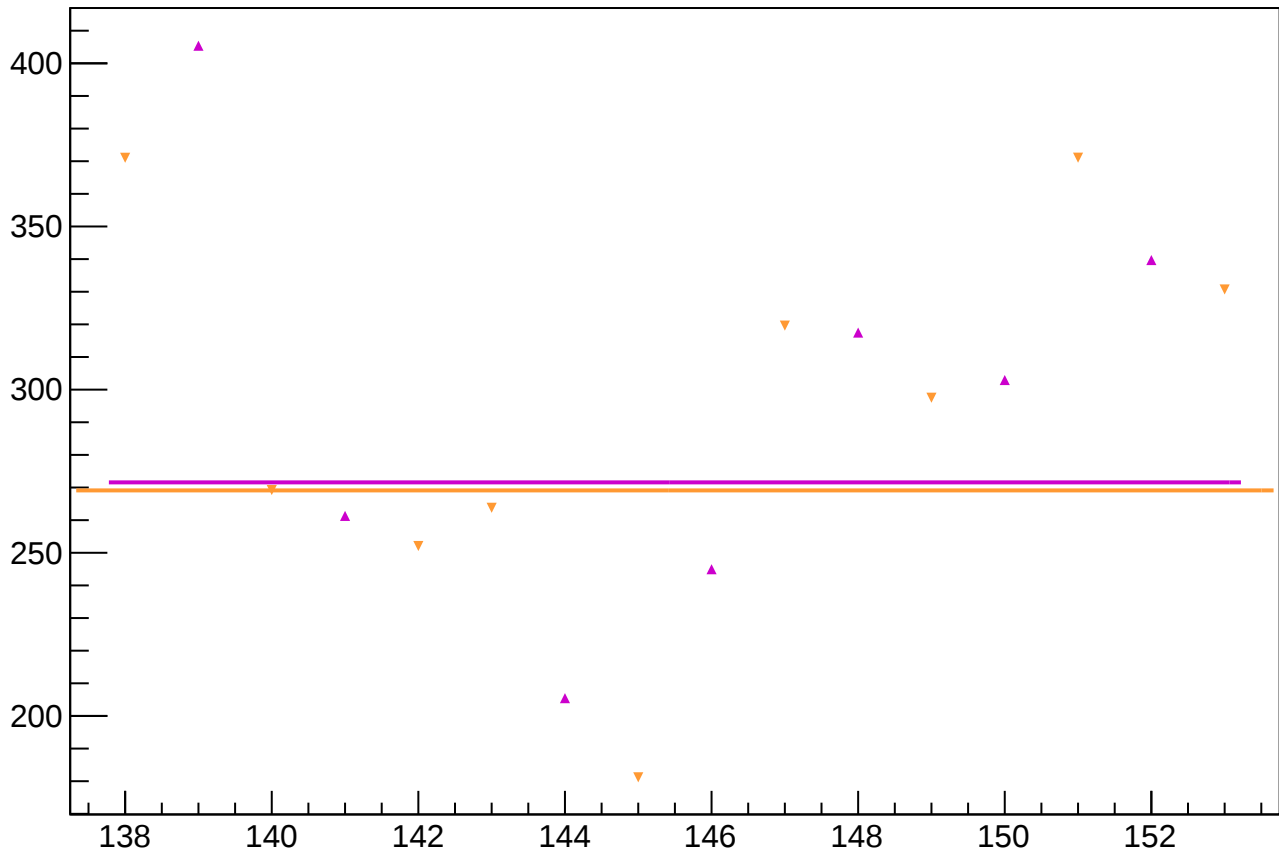
Left In: -65.417+/-115.402  $\chi^2/\text{NDF}$ : 6.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -264.344+/-78.576  $\chi^2/\text{NDF}$ : 30.5/15

- 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: 269.118+/-0.076  $\chi^2/\text{NDF}$ : 701114.5/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

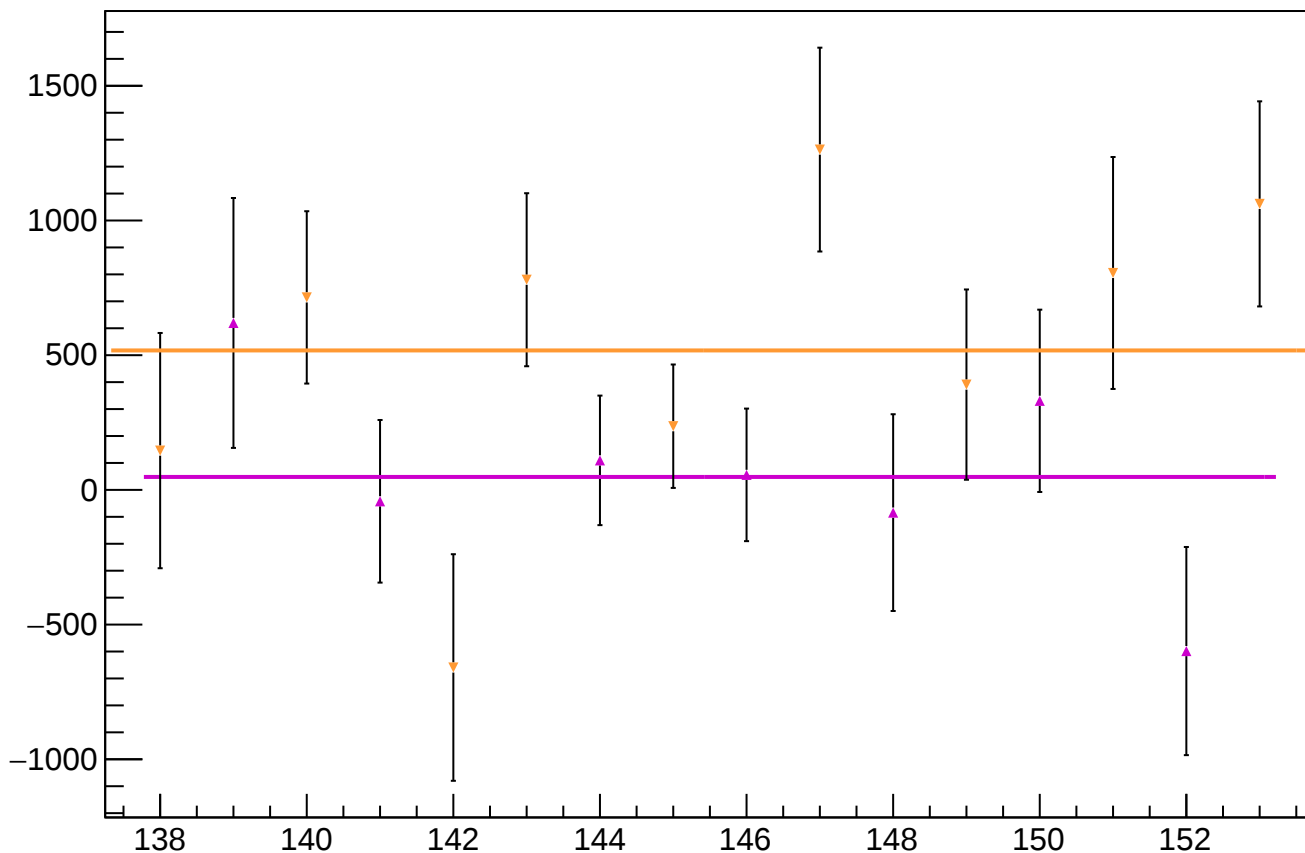
Left In: 271.579+/-0.082  $\chi^2/\text{NDF}$ : 487188.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 270.259+/-0.056  $\chi^2/\text{NDF}$ : 1188790.6/15

- 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: 517.687+/-114.167  $\chi^2/\text{NDF}$ : 17.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

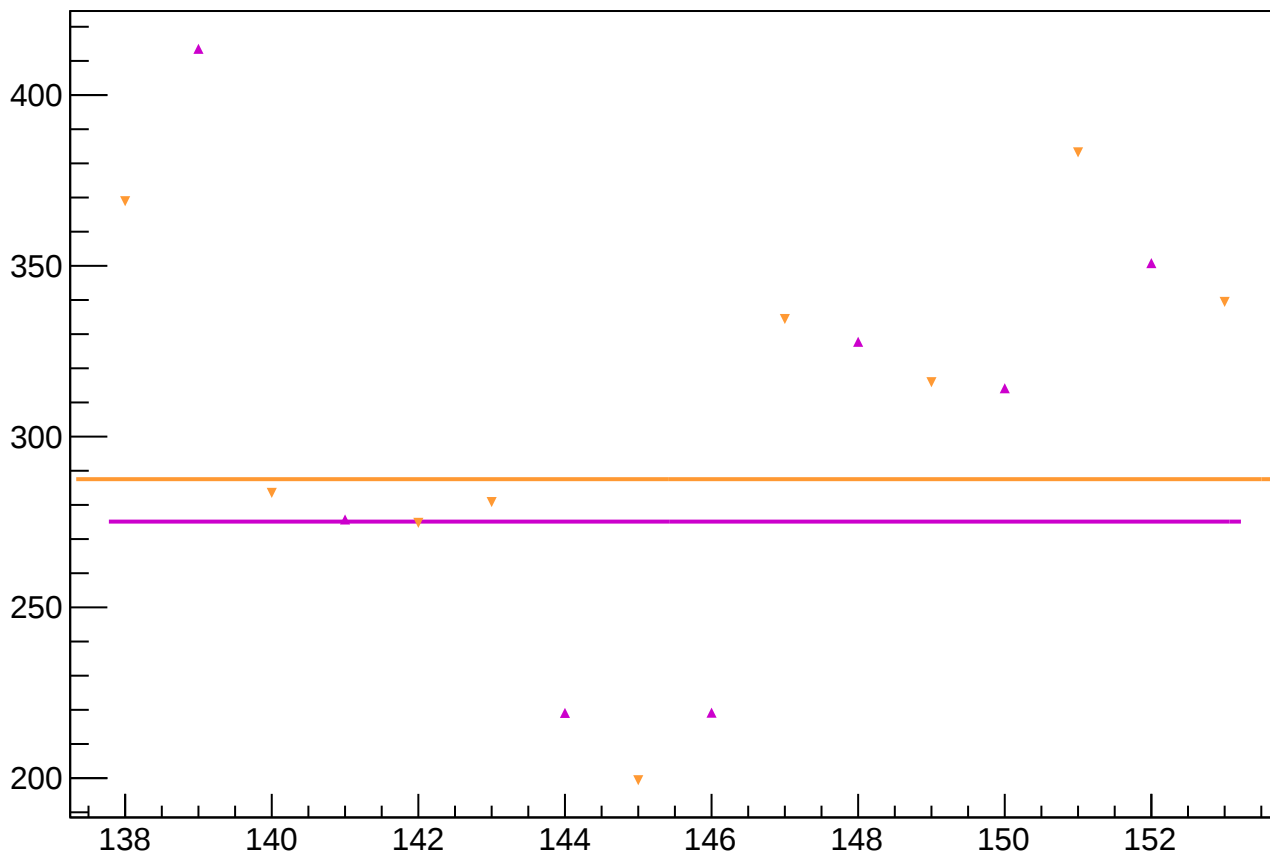
Left In: 48.078+/-117.544  $\chi^2/\text{NDF}$ : 5.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 289.724+/-81.896  $\chi^2/\text{NDF}$ : 31.1/15

- 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: 287.538+/-0.081  $\chi^2/\text{NDF}$ :548247.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

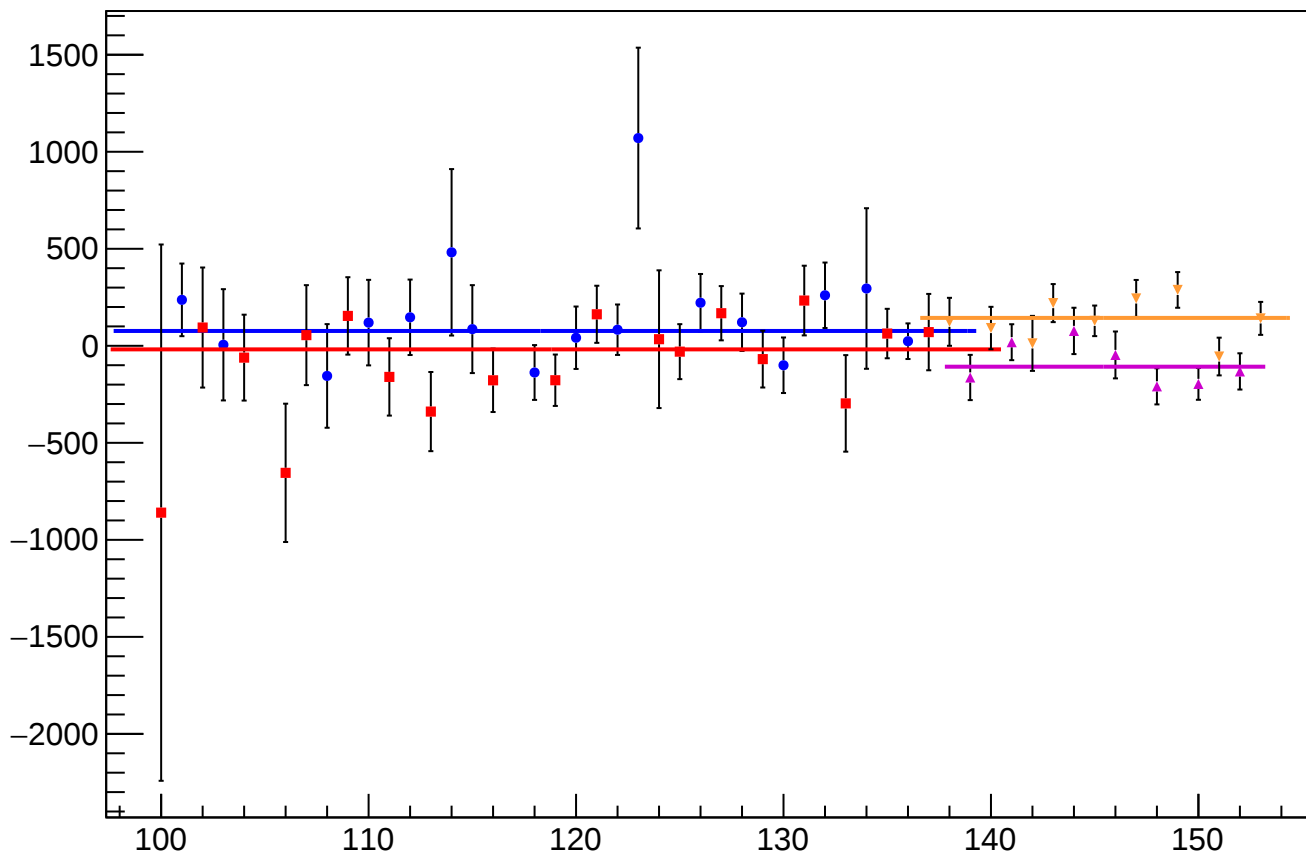
Left In: 275.114+/-0.083  $\chi^2/\text{NDF}$ :535058.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 281.507+/-0.058  $\chi^2/\text{NDF}$ : 1094803.3/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 76.503+/-41.558  $\chi^2/\text{NDF}$ : 13.9/16

Left Out: 143.774+/-32.674  $\chi^2/\text{NDF}$ : 9.5/8

Right Out: -18.393+/-42.277  $\chi^2/\text{NDF}$ : 17.2/18

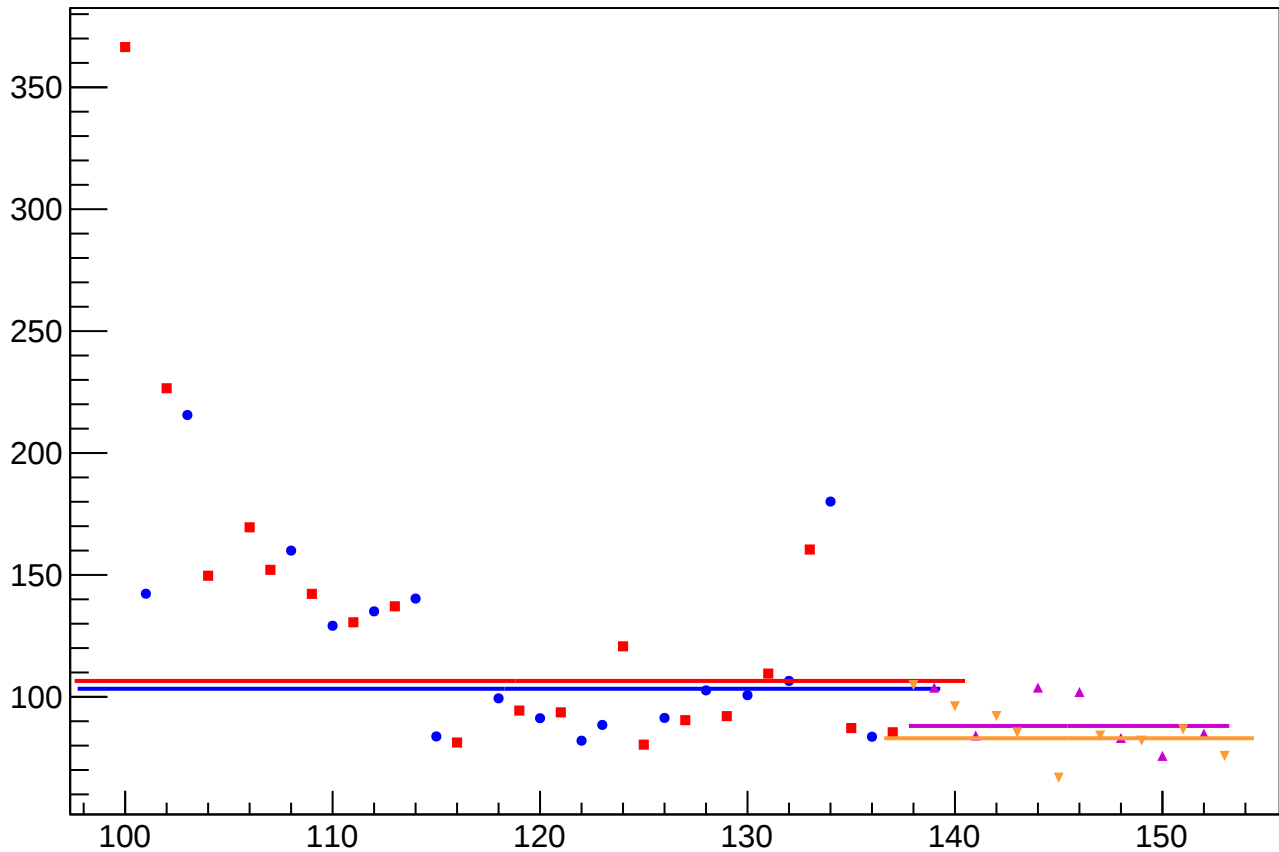
Left In: -107.645+/-37.576  $\chi^2/\text{NDF}$ : 7.2/6

+ sign 118.075+/-25.686  $\chi^2/\text{NDF}$ : 25.0/25

All: 33.212+/-18.954  $\chi^2/\text{NDF}$ : 75.8/51

- sign -68.256+/-28.086  $\chi^2/\text{NDF}$ : 26.8/25

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 83.030 $\pm$ 0.023  $\chi^2$ /NDF:202488.1/8

Right Out: 106.532 $\pm$ 0.030  $\chi^2$ /NDF: 1071553.9/18

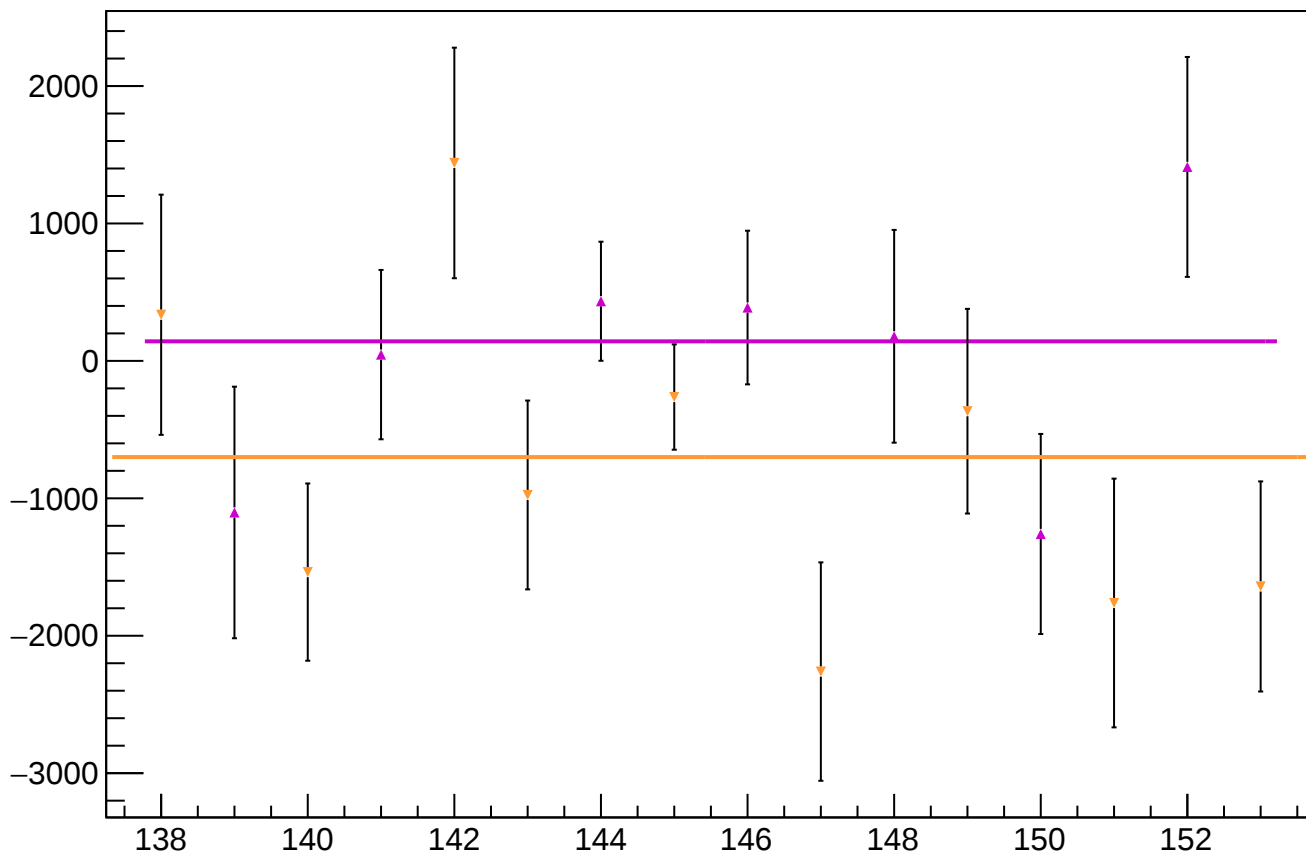
Left In: 88.069 $\pm$ 0.027  $\chi^2$ /NDF:154017.5/6

+ sign 90.780 $\pm$ 0.018  $\chi^2$ /NDF: 1334837.5/25

All: 93.257 $\pm$ 0.013  $\chi^2$ /NDF: 2814326.0/51

- sign 96.217 $\pm$ 0.020  $\chi^2$ /NDF: 1438676.2/25

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -699.881 $\pm$ 221.480  $\chi^2$ /NDF:18.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

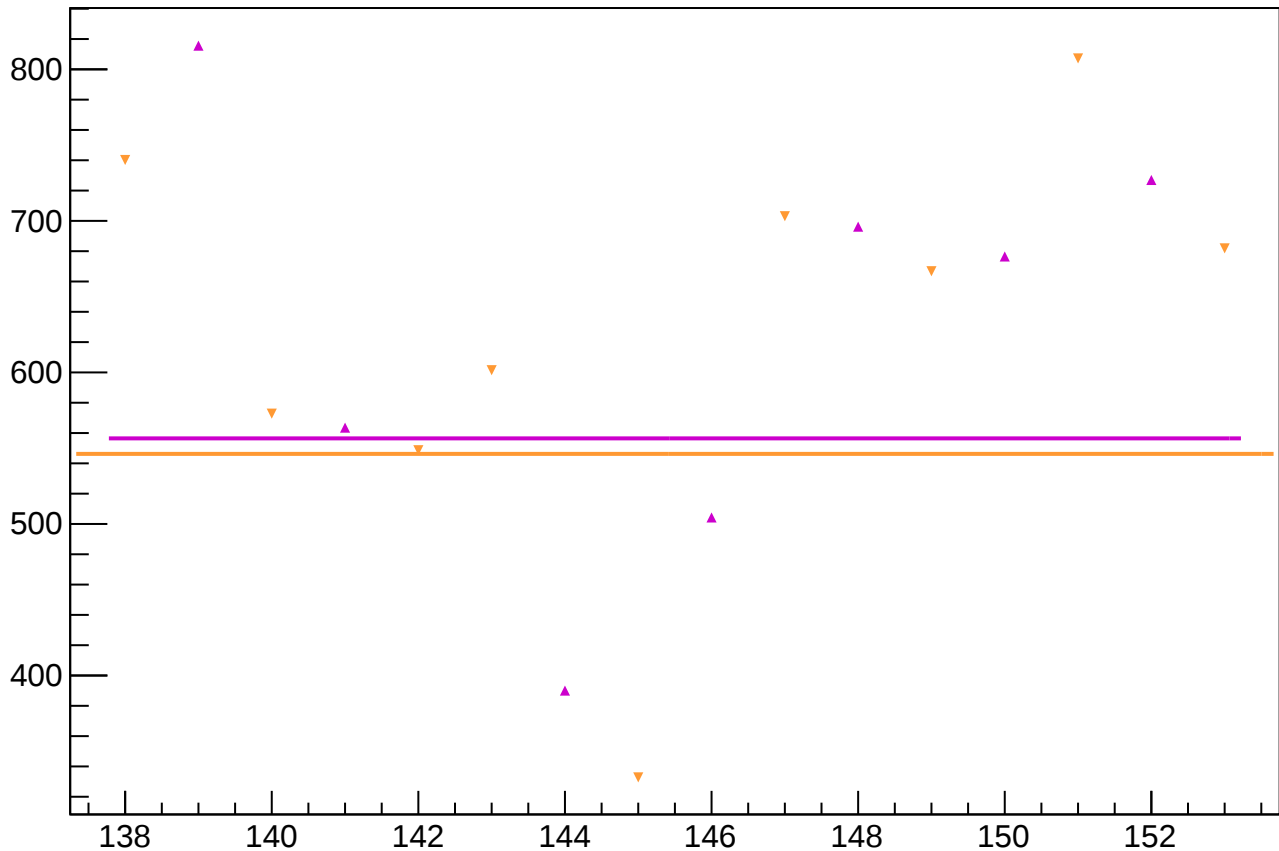
Left In: 142.267 $\pm$ 239.205  $\chi^2$ /NDF:8.7/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -311.161 $\pm$ 162.515  $\chi^2$ /NDF: 33.4/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3726\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 546.247+/-0.157  $\chi^2/\text{NDF}$ : 1095354.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

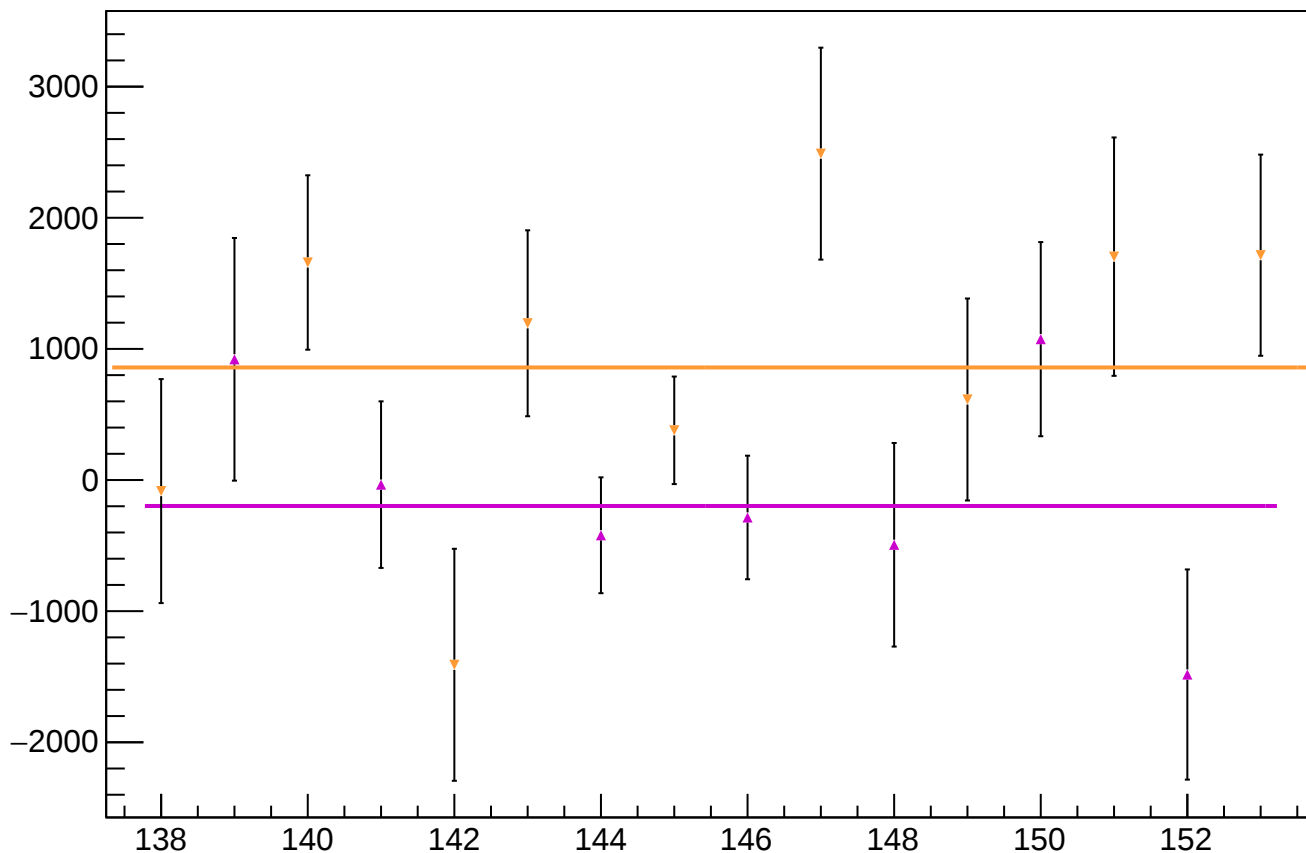
Left In: 556.478+/-0.169  $\chi^2/\text{NDF}$ : 683596.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 550.969+/-0.115  $\chi^2/\text{NDF}$ : 1780920.8/15

- 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: 858.513+/-229.575  $\chi^2/\text{NDF}$ :17.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

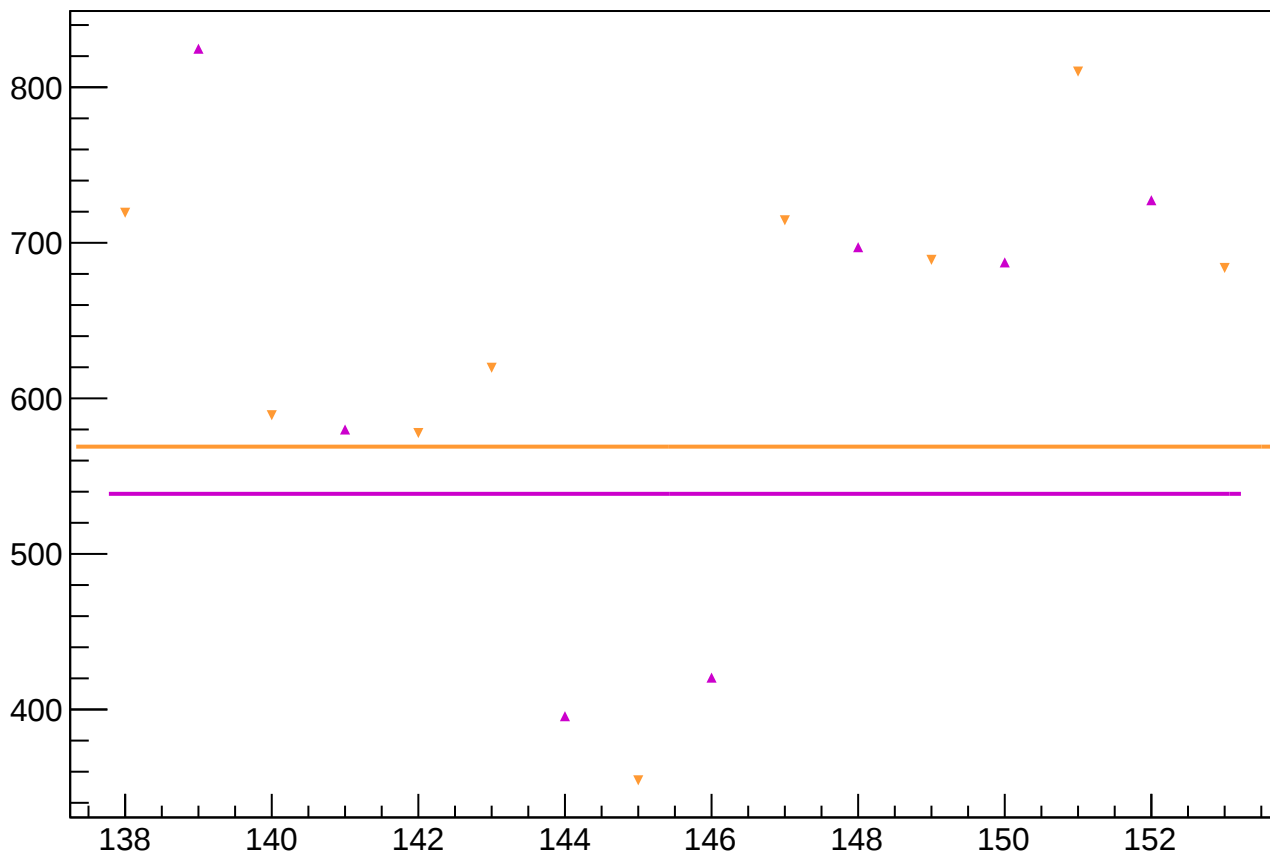
Left In: -197.966+/-233.647  $\chi^2/\text{NDF}$ :7.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 339.561+/-163.755  $\chi^2/\text{NDF}$ : 35.0/15

- 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: 568.967+/-0.162  $\chi^2/\text{NDF}$ : 920713.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

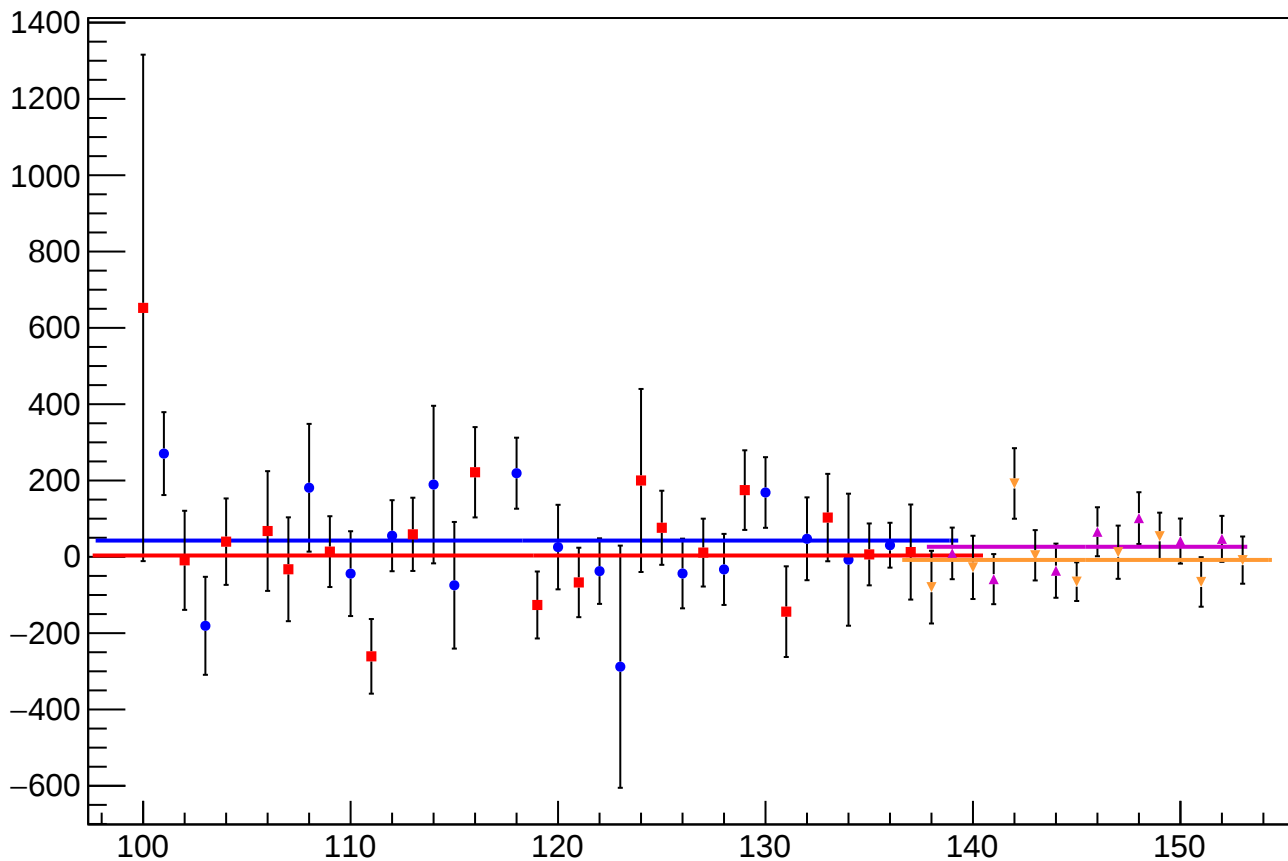
Left In: 538.634+/-0.165  $\chi^2/\text{NDF}$ : 810189.9/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 554.067+/-0.116  $\chi^2/\text{NDF}$ : 1748053.8/15

- 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+/-25.486  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: -8.092+/-22.594  $\chi^2/\text{NDF}$ : 8.5/8

Right Out: 3.503+/-25.070  $\chi^2/\text{NDF}$ : 21.4/18

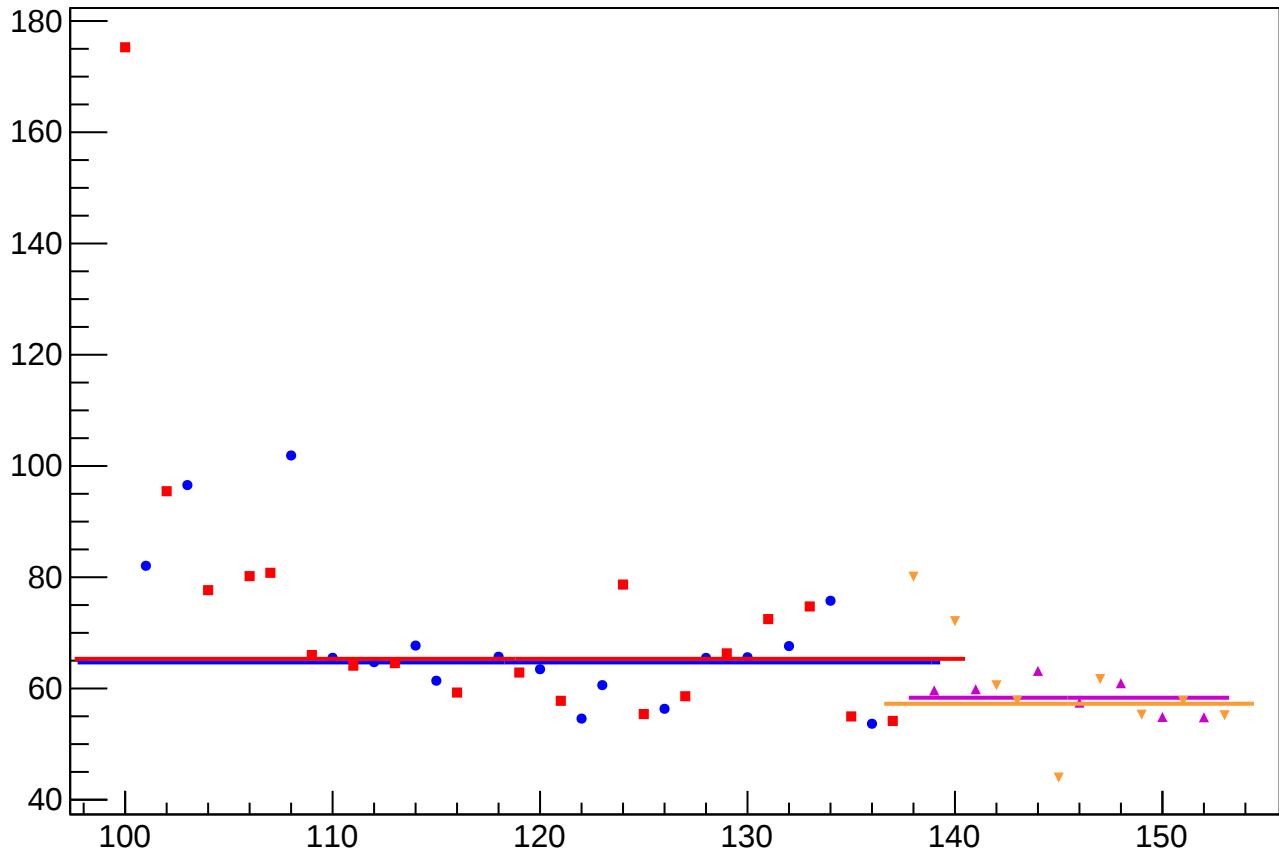
Left In: 26.358+/-24.455  $\chi^2/\text{NDF}$ : 4.3/6

+ sign 14.240+/-16.907  $\chi^2/\text{NDF}$ : 29.6/25

All: 14.710+/-12.161  $\chi^2/\text{NDF}$ : 55.7/51

- sign 15.214+/-17.506  $\chi^2/\text{NDF}$ : 26.1/25

# dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.685 $\pm$ 0.018  $\chi^2$ /NDF: 400187.1/16

Left Out: 57.254 $\pm$ 0.016  $\chi^2$ /NDF: 331639.8/8

Right Out: 65.324 $\pm$ 0.018  $\chi^2$ /NDF: 359570.8/18

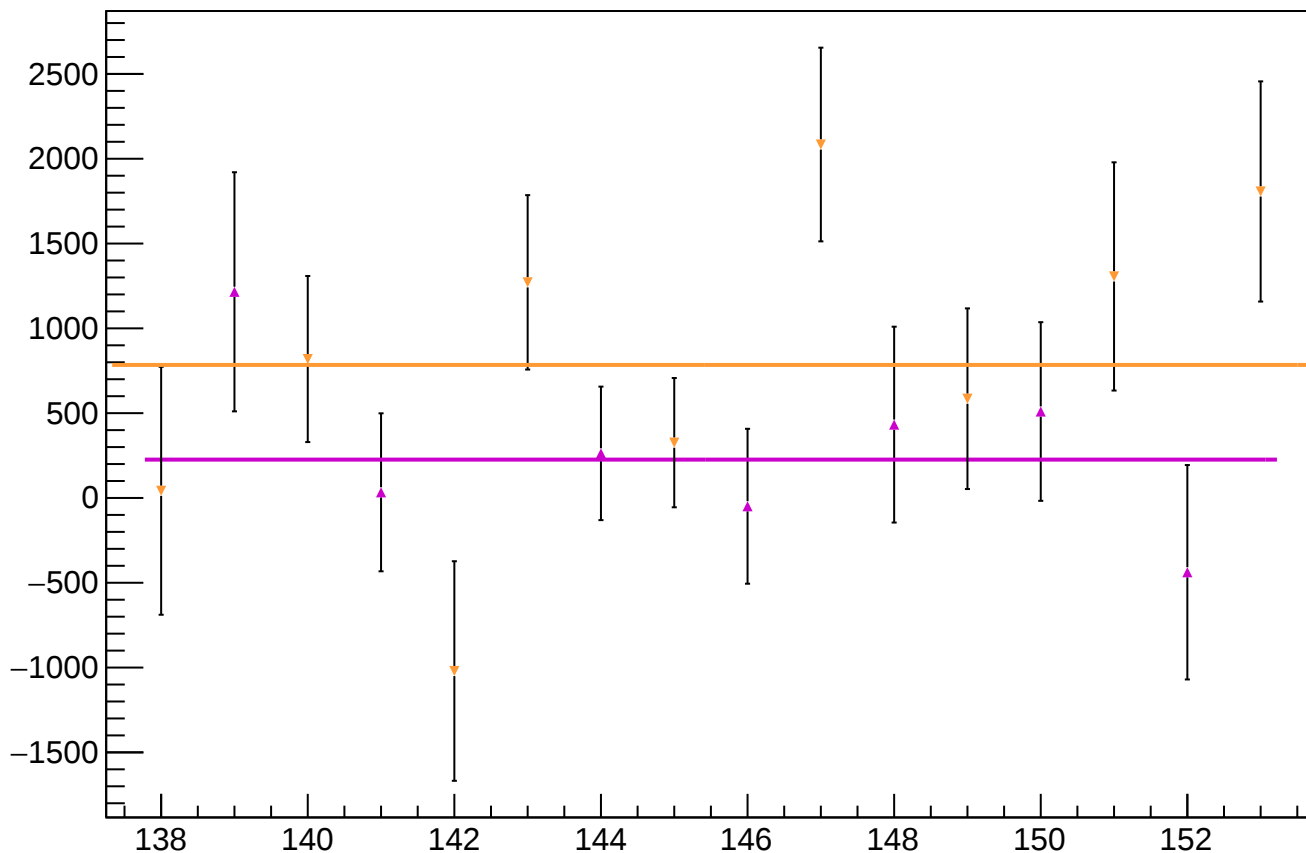
Left In: 58.337 $\pm$ 0.017  $\chi^2$ /NDF: 28137.2/6

+ sign 60.525 $\pm$ 0.012  $\chi^2$ /NDF: 827034.4/25

All: 61.113 $\pm$ 0.009  $\chi^2$ /NDF: 1299372.7/51

- sign 61.744 $\pm$ 0.012  $\chi^2$ /NDF: 467316.7/25

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 784.317+/-181.748  $\chi^2/\text{NDF}$ :19.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

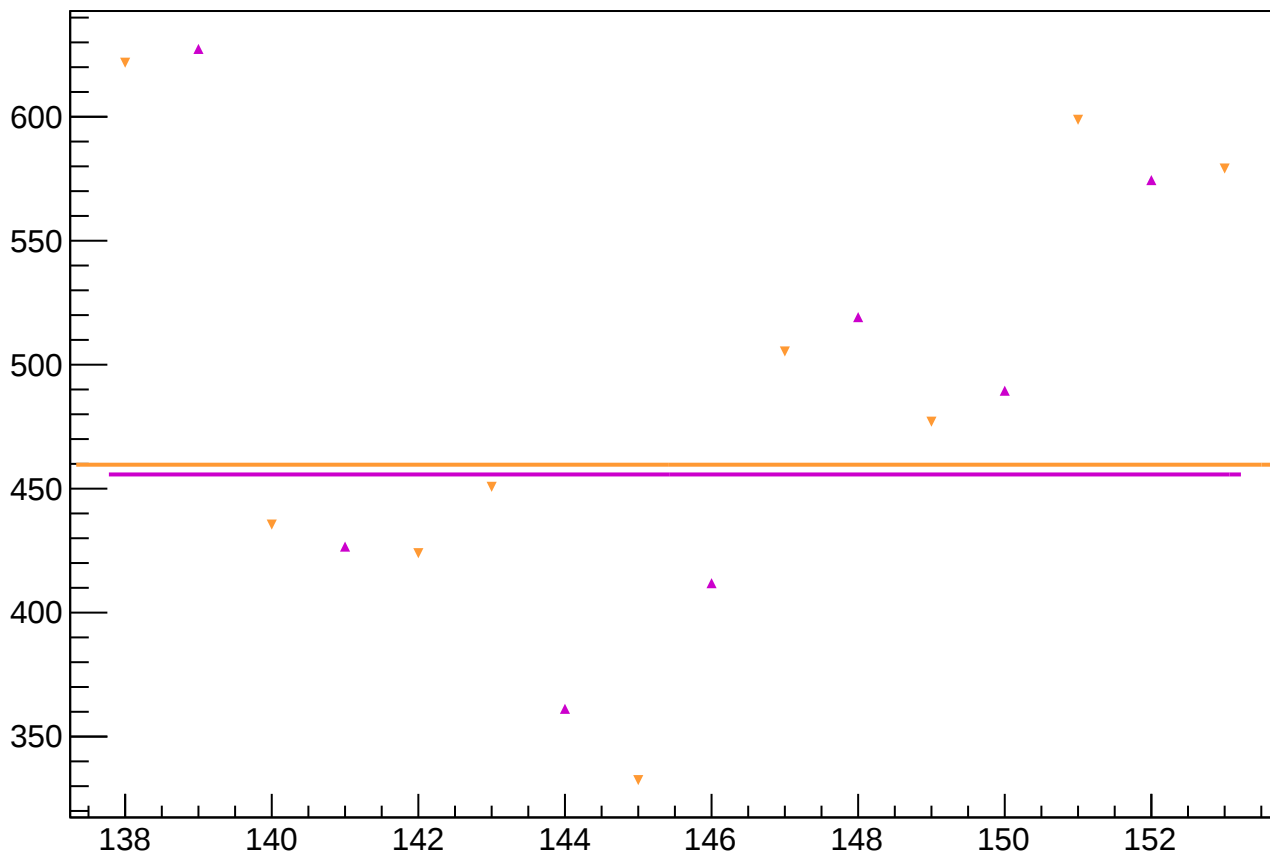
Left In: 226.095+/-192.512  $\chi^2/\text{NDF}$ :4.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 521.247+/-132.157  $\chi^2/\text{NDF}$ : 28.0/15

- 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: 459.662+/-0.129  $\chi^2/\text{NDF}$ : 501032.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

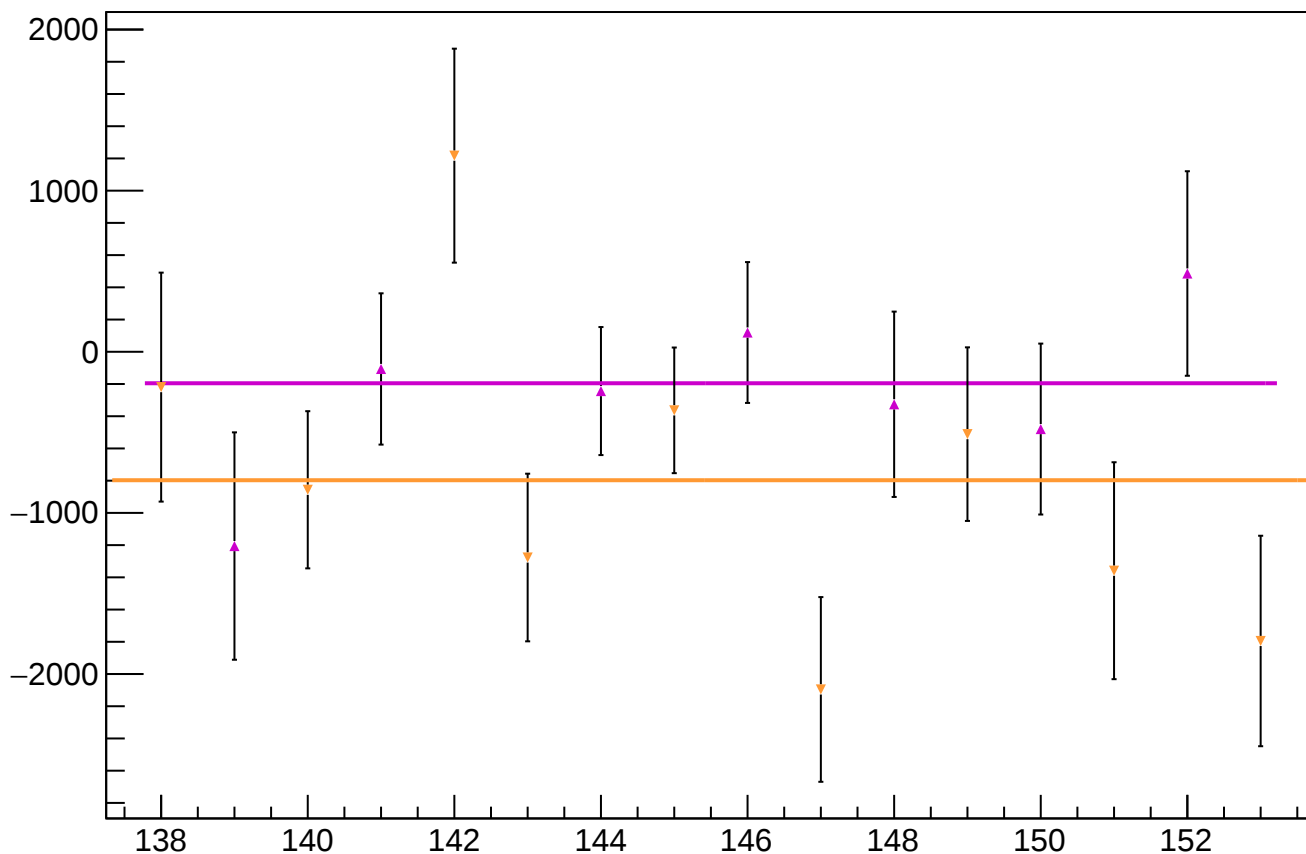
Left In: 455.727+/-0.136  $\chi^2/\text{NDF}$ : 363182.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 457.807+/-0.093  $\chi^2/\text{NDF}$ : 864656.8/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -797.212 $\pm$ 183.299  $\chi^2$ /NDF:20.4/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

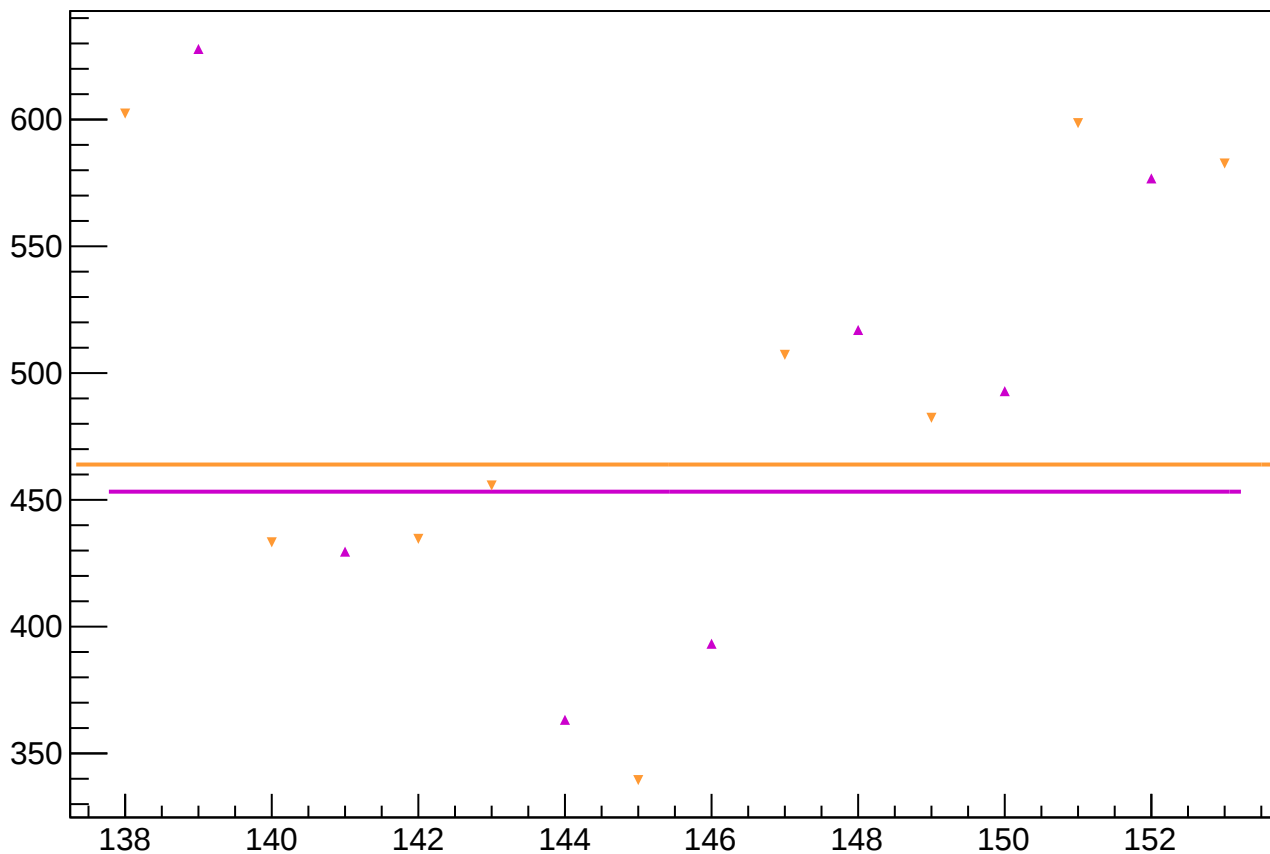
Left In: -195.325 $\pm$ 191.839  $\chi^2$ /NDF:4.1/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -509.964 $\pm$ 132.528  $\chi^2$ /NDF: 29.7/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 463.933+/-0.130  $\chi^2/\text{NDF}$ : 451784.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

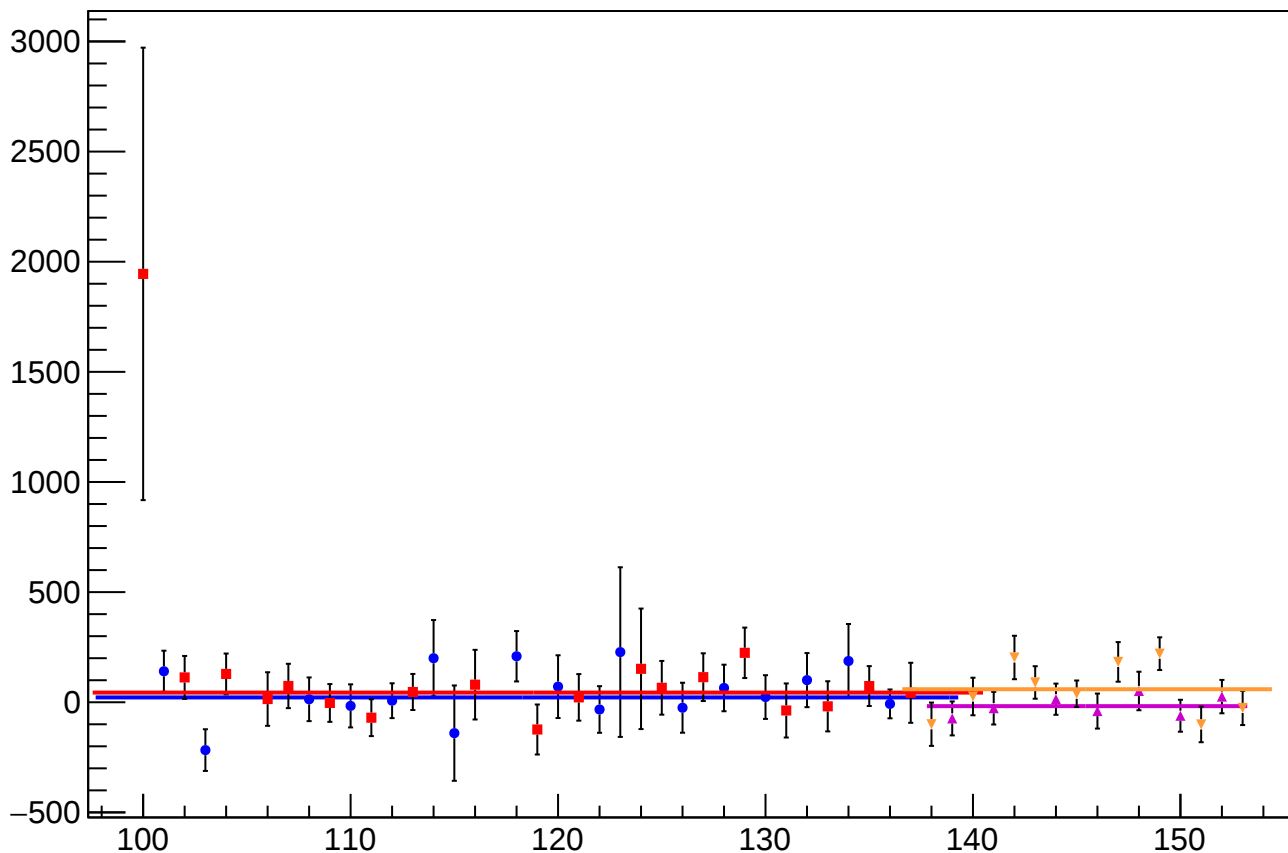
Left In: 453.227+/-0.136  $\chi^2/\text{NDF}$ : 379281.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 458.824+/-0.094  $\chi^2/\text{NDF}$ : 834321.7/15

- 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: 59.058 $\pm$ 26.458  $\chi^2$ /NDF:16.9/8

Right Out: 43.953 $\pm$ 25.108  $\chi^2$ /NDF: 13.3/18

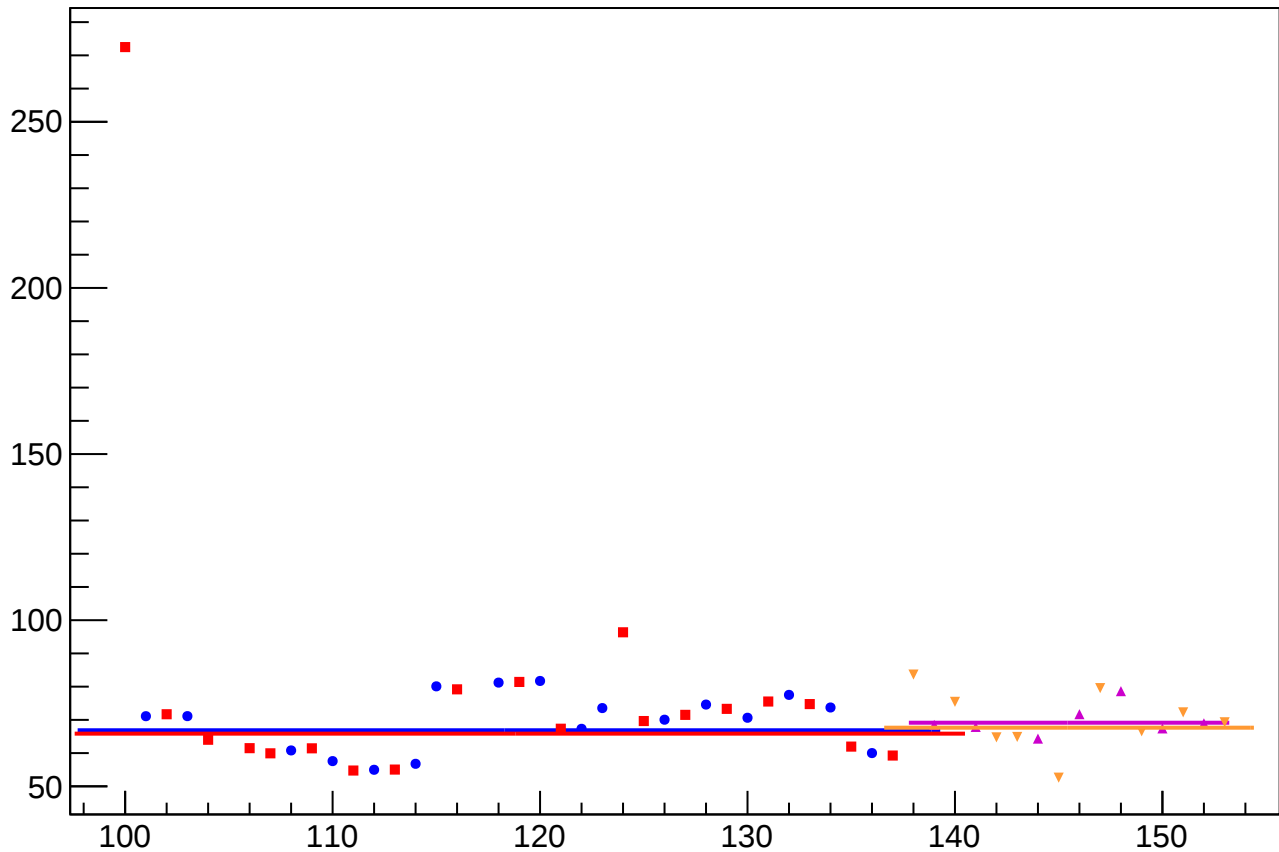
Left In: -17.689 $\pm$ 28.825  $\chi^2$ /NDF:2.1/6

+ sign 40.198 $\pm$ 18.565  $\chi^2$ /NDF: 33.0/25

All: 29.003 $\pm$ 13.255  $\chi^2$ /NDF: 51.7/51

- sign 17.360 $\pm$ 18.933  $\chi^2$ /NDF: 18.0/25

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 66.872 $\pm$ 0.018  $\chi^2$ /NDF: 202515.6/16

Left Out: 67.647 $\pm$ 0.019  $\chi^2$ /NDF: 242371.3/8

Right Out: 65.854 $\pm$ 0.018  $\chi^2$ /NDF: 299873.8/18

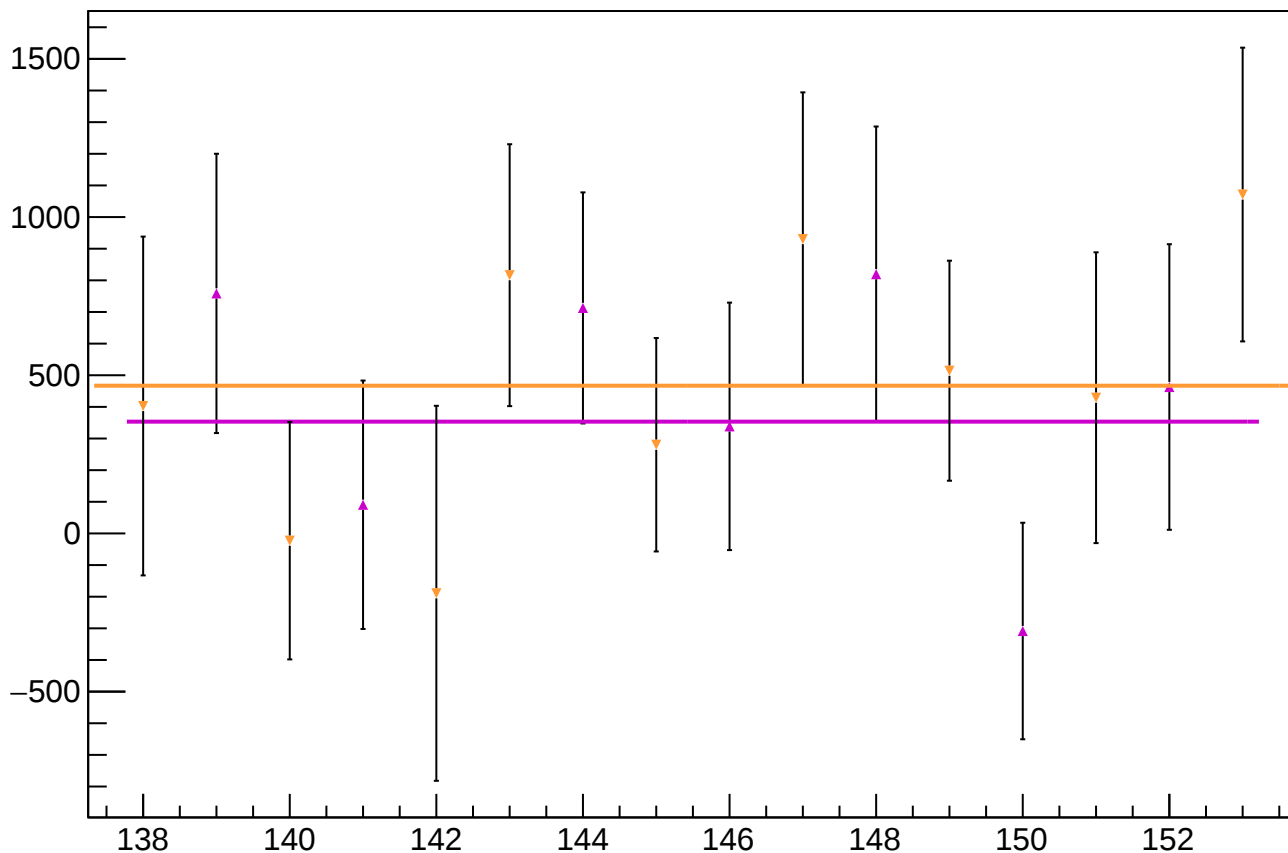
Left In: 69.144 $\pm$ 0.020  $\chi^2$ /NDF: 36659.1/6

+ sign 67.254 $\pm$ 0.013  $\chi^2$ /NDF: 445758.2/25

All: 67.263 $\pm$ 0.009  $\chi^2$ /NDF: 797104.4/51

- sign 67.273 $\pm$ 0.013  $\chi^2$ /NDF: 351345.1/25

# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 466.954+/-140.925  $\chi^2/\text{NDF}$ : 6.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

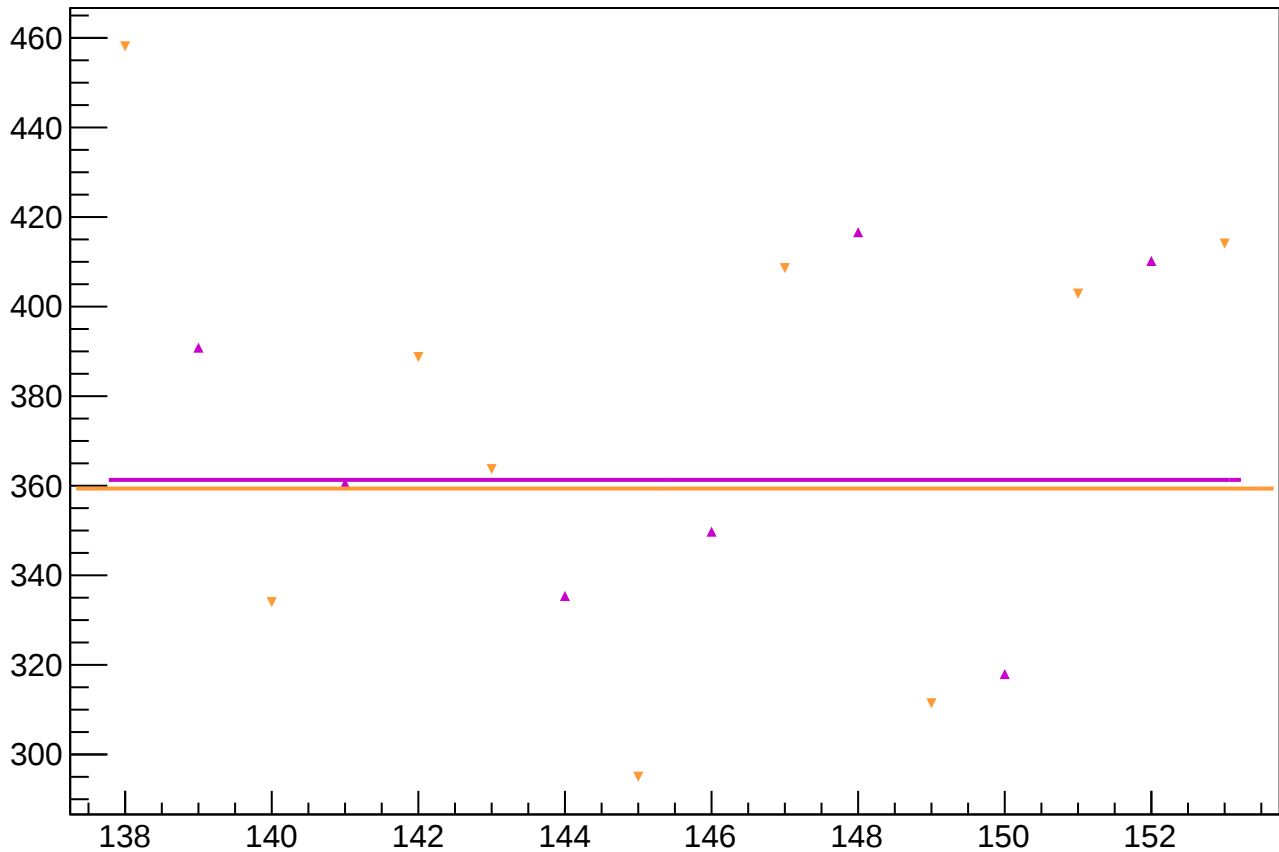
Left In: 353.350+/-151.287  $\chi^2/\text{NDF}$ : 7.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 414.175+/-103.118  $\chi^2/\text{NDF}$ : 14.0/15

- 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: 359.369+/-0.100  $\chi^2/\text{NDF}$ : 261309.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

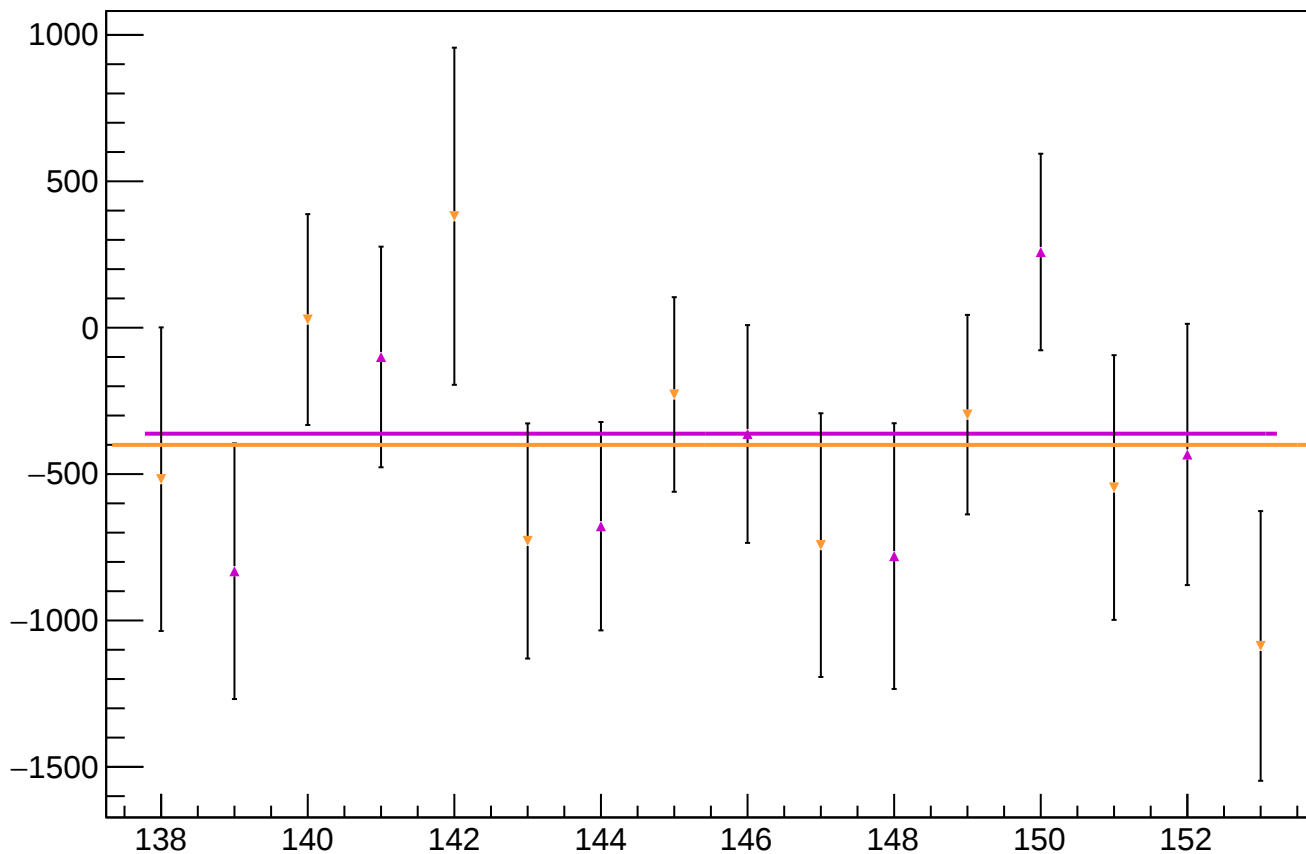
Left In: 361.311+/-0.107  $\chi^2/\text{NDF}$ : 104420.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 360.271+/-0.073  $\chi^2/\text{NDF}$ : 365906.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -400.273+/-137.540  $\chi^2/\text{NDF}$ : 7.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

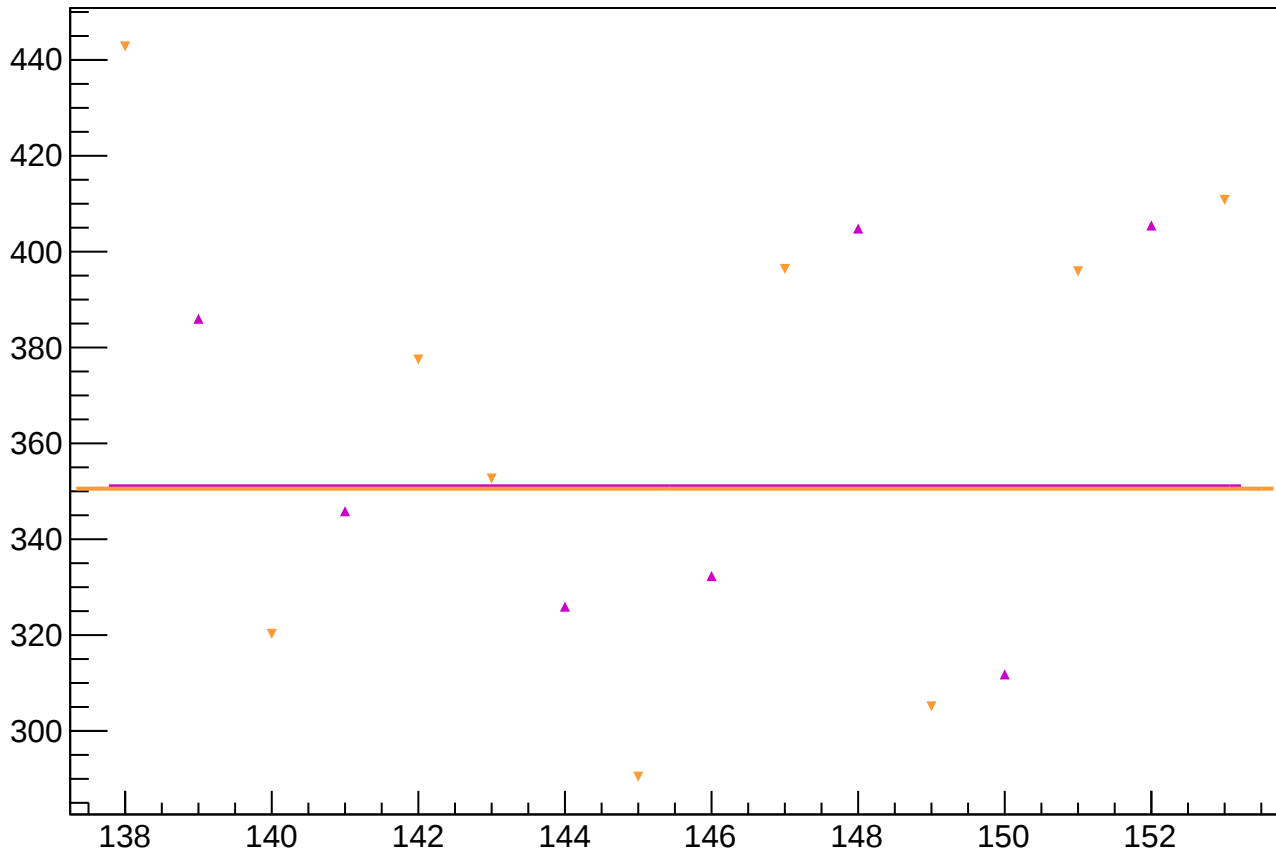
Left In: -362.010+/-147.170  $\chi^2/\text{NDF}$ : 6.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -382.434+/-100.488  $\chi^2/\text{NDF}$ : 14.0/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 350.557+/-0.097  $\chi^2/\text{NDF}$ : 257990.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

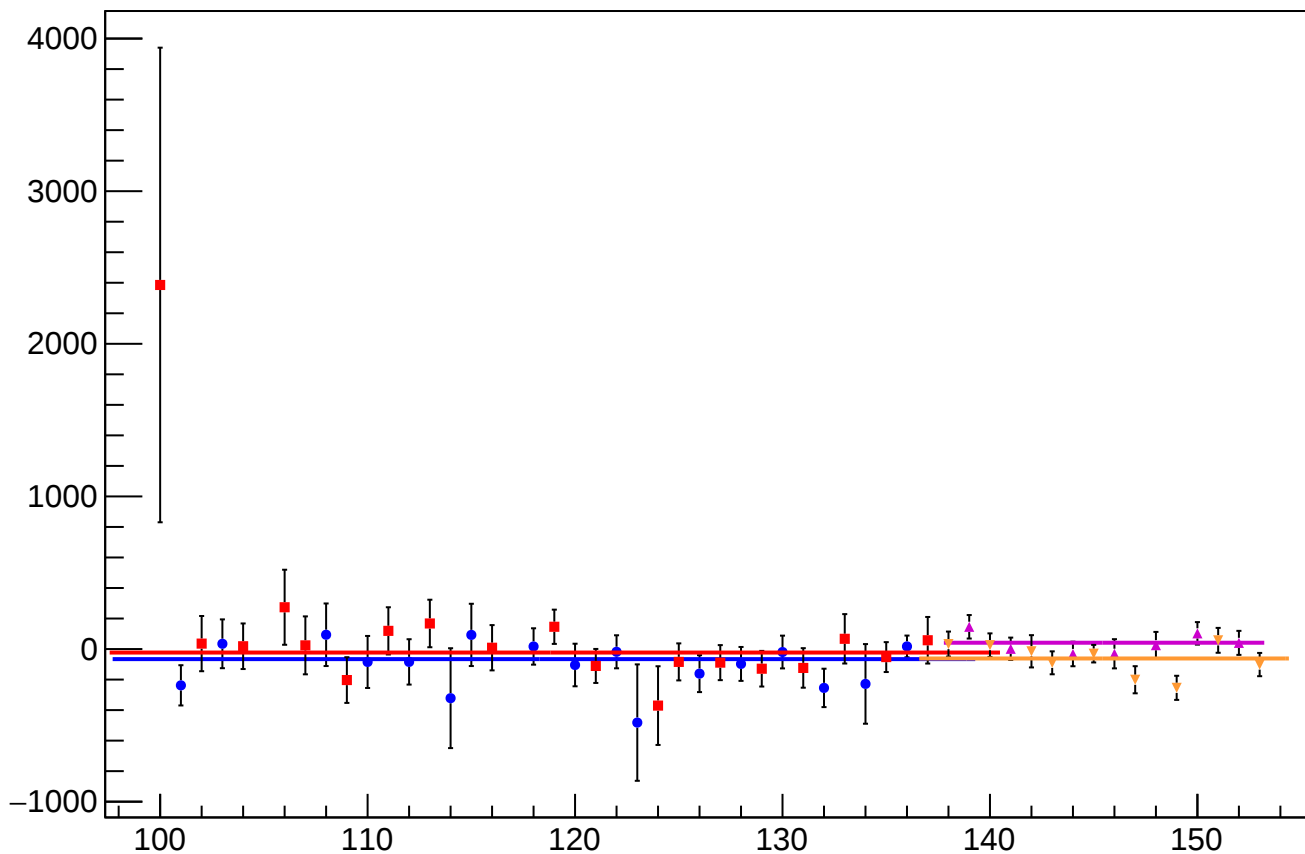
Left In: 351.037+/-0.104  $\chi^2/\text{NDF}$ : 113408.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 350.781+/-0.071  $\chi^2/\text{NDF}$ : 371410.2/15

- 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:  $-61.794 \pm 25.856$   $\chi^2/\text{NDF}$ : 14.0/8

Right Out:  $-22.908 \pm 32.782$   $\chi^2/\text{NDF}$ : 15.3/18

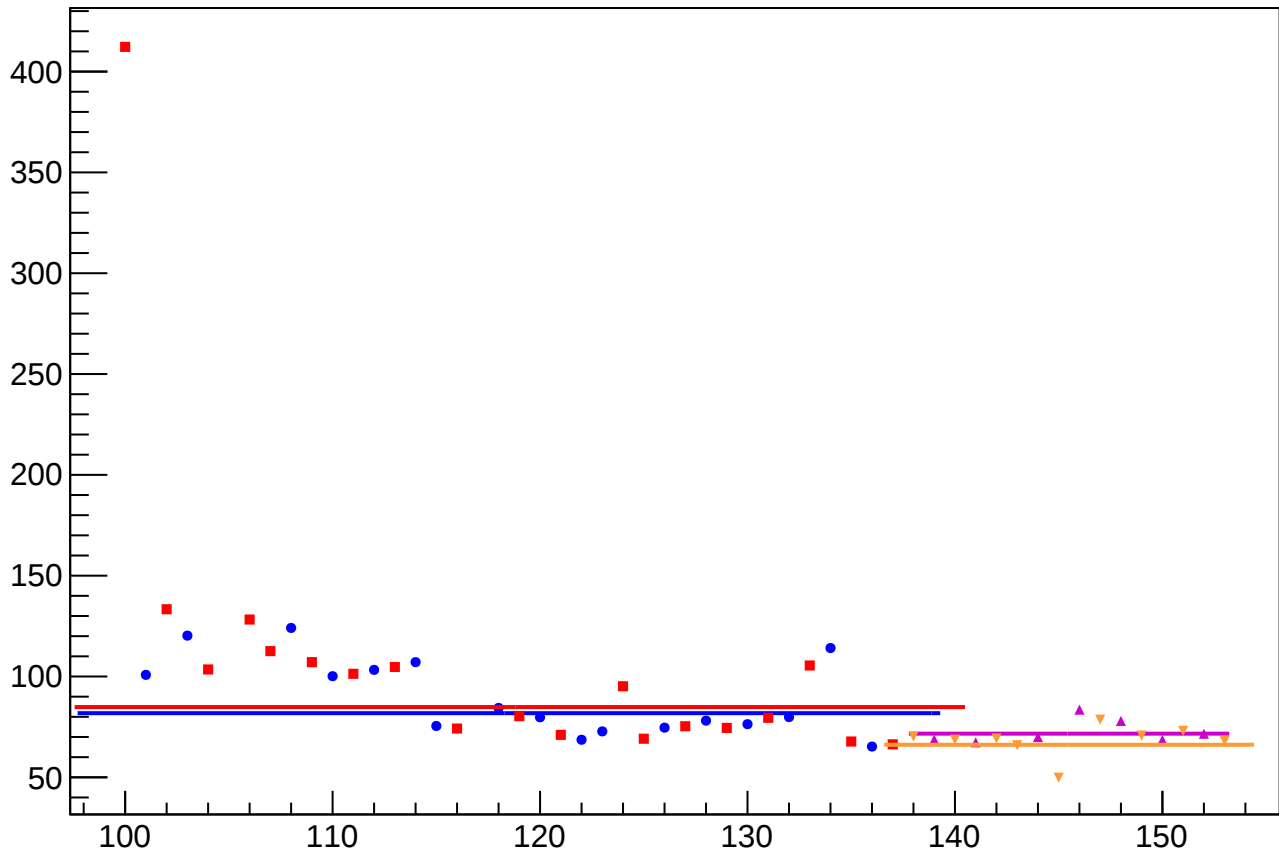
Left In:  $41.392 \pm 30.204$   $\chi^2/\text{NDF}$ : 4.3/6

+ sign  $-63.427 \pm 20.183$   $\chi^2/\text{NDF}$ : 24.8/25

All:  $-29.377 \pm 14.938$   $\chi^2/\text{NDF}$ : 52.8/51

- sign  $11.869 \pm 22.213$   $\chi^2/\text{NDF}$ : 21.7/25

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 81.809+/-0.023  $\chi^2/\text{NDF}$ : 507195.8/16

Left Out: 66.144+/-0.018  $\chi^2/\text{NDF}$ : 232299.2/8

Right Out: 84.836+/-0.023  $\chi^2/\text{NDF}$ : 704648.9/18

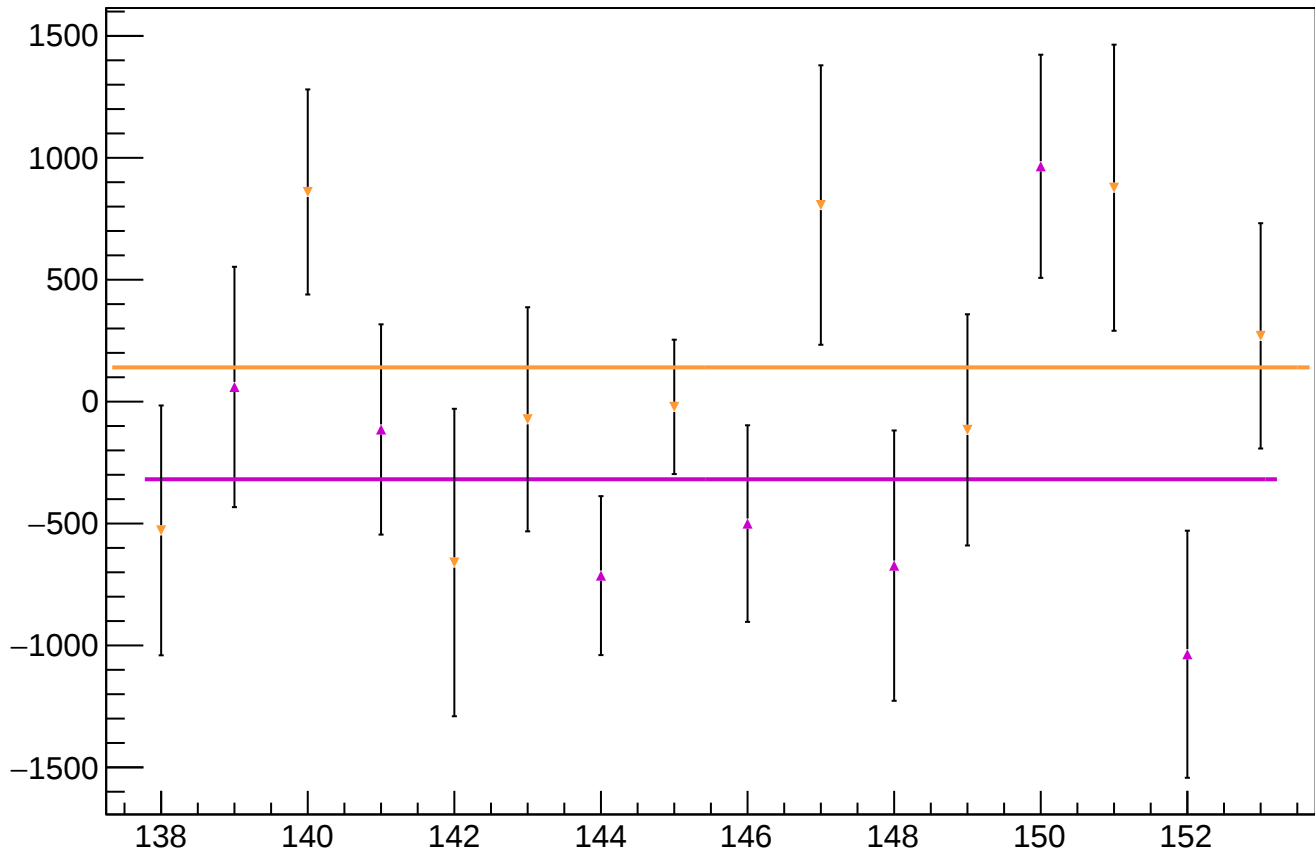
Left In: 71.651+/-0.021  $\chi^2/\text{NDF}$ : 55757.2/6

+ sign 72.264+/-0.014  $\chi^2/\text{NDF}$ : 1026302.2/25

All: 74.725+/-0.011  $\chi^2/\text{NDF}$ : 2027428.3/51

- sign 77.705+/-0.016  $\chi^2/\text{NDF}$ : 935404.6/25

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 140.459 $\pm$ 149.139  $\chi^2$ /NDF:10.1/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

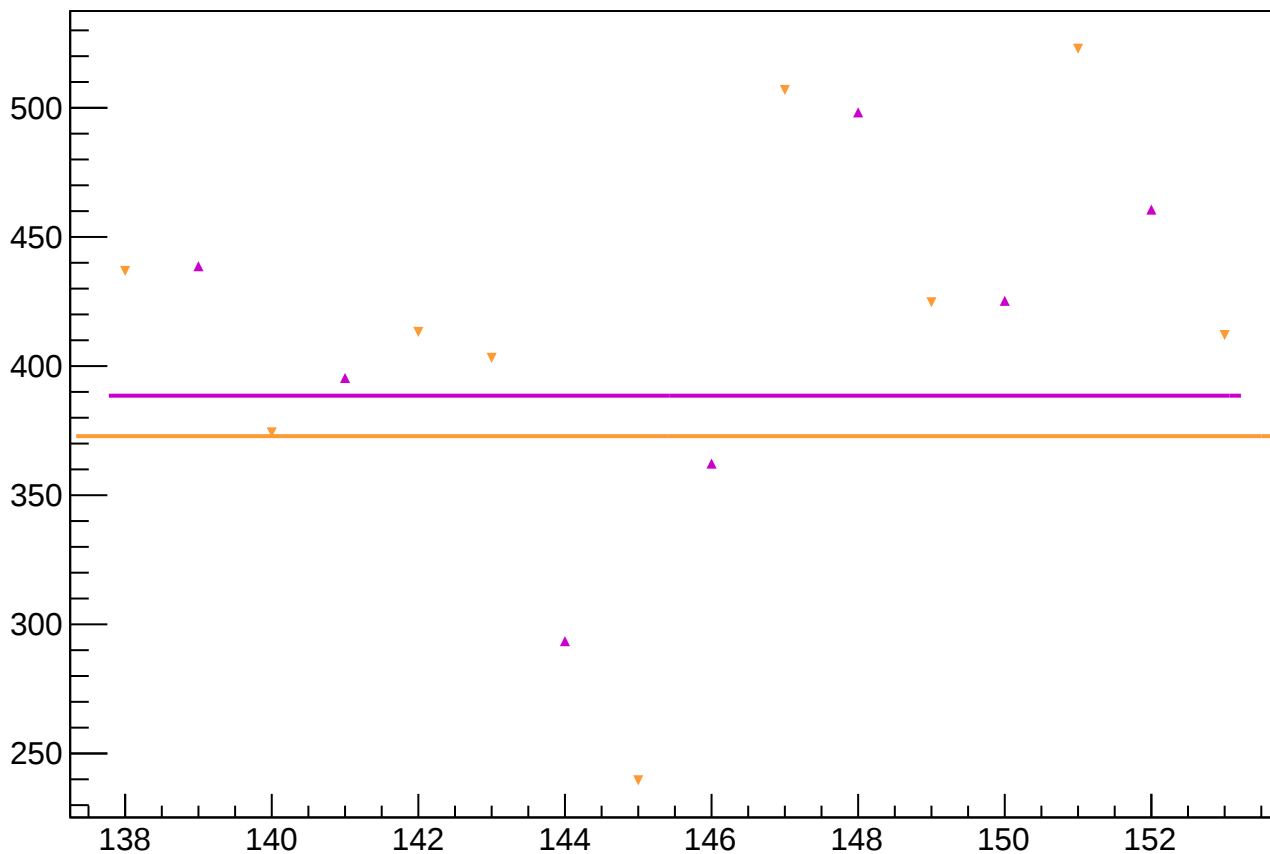
Left In: -318.372 $\pm$ 164.451  $\chi^2$ /NDF:12.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -66.607 $\pm$ 110.475  $\chi^2$ /NDF: 27.1/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 372.874+/-0.105  $\chi^2/\text{NDF}$ : 794061.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

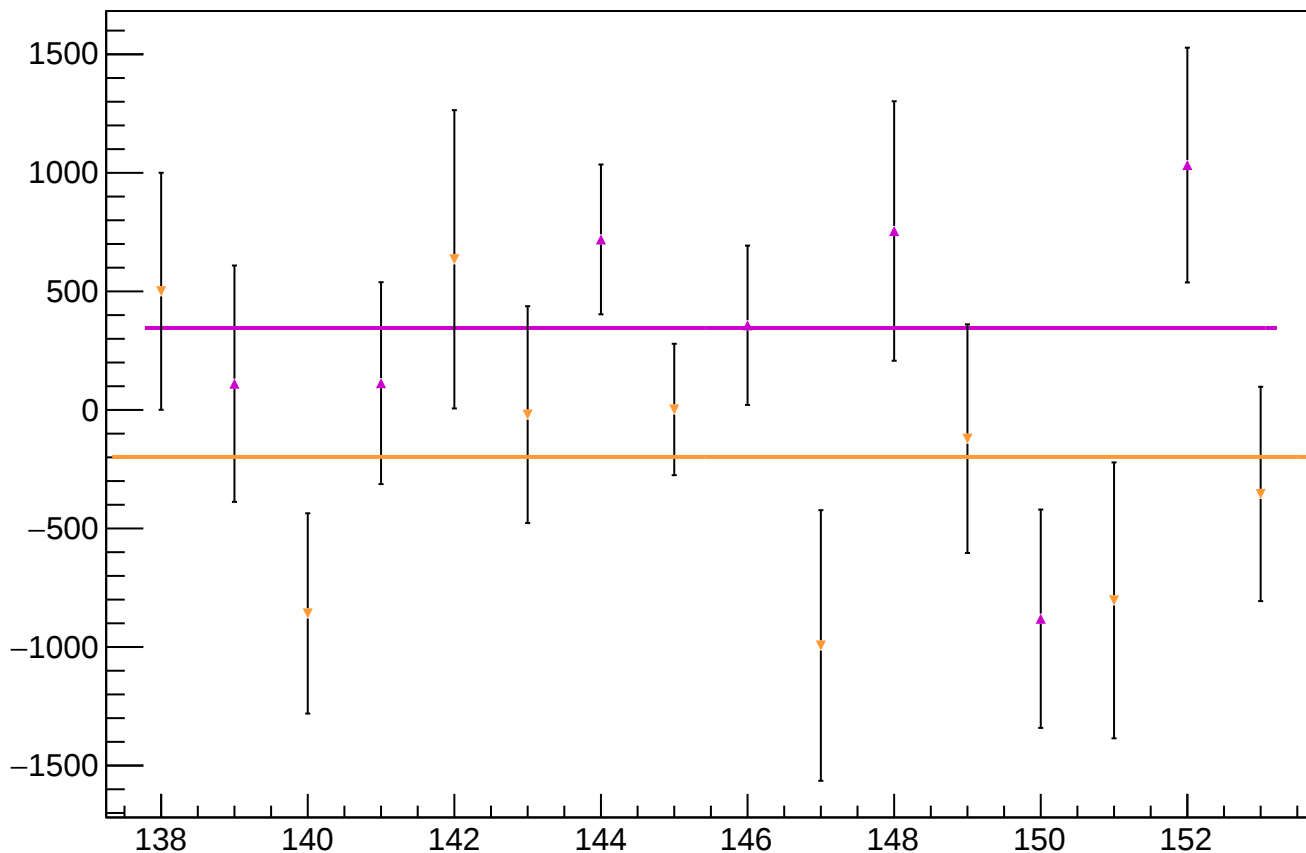
Left In: 388.541+/-0.116  $\chi^2/\text{NDF}$ : 331347.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 379.945+/-0.078  $\chi^2/\text{NDF}$ : 1135369.1/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -198.198 $\pm$ 148.817  $\chi^2$ /NDF:10.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

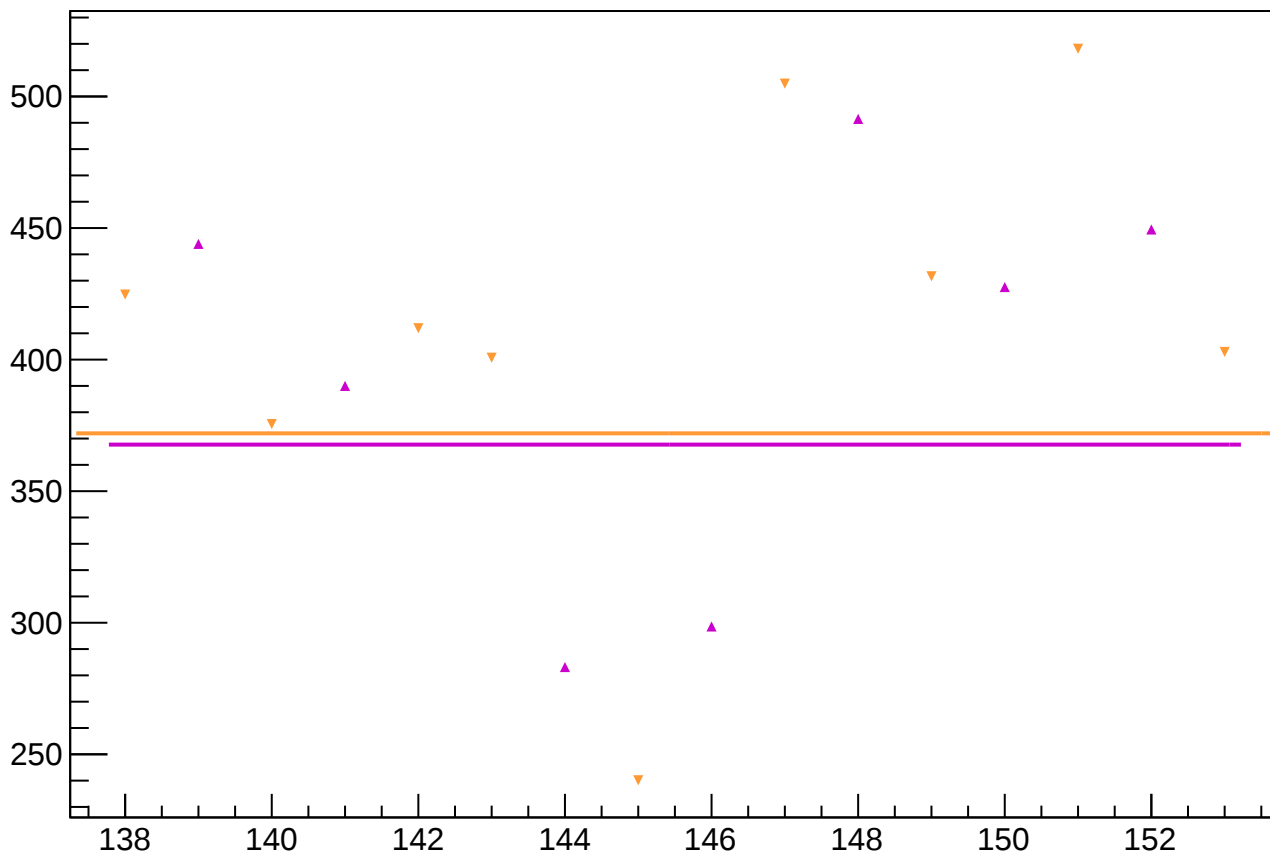
Left In: 345.726 $\pm$ 157.031  $\chi^2$ /NDF:11.5/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 59.166 $\pm$ 108.017  $\chi^2$ /NDF: 27.8/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 371.983+/-0.105  $\chi^2/\text{NDF}$ : 765784.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

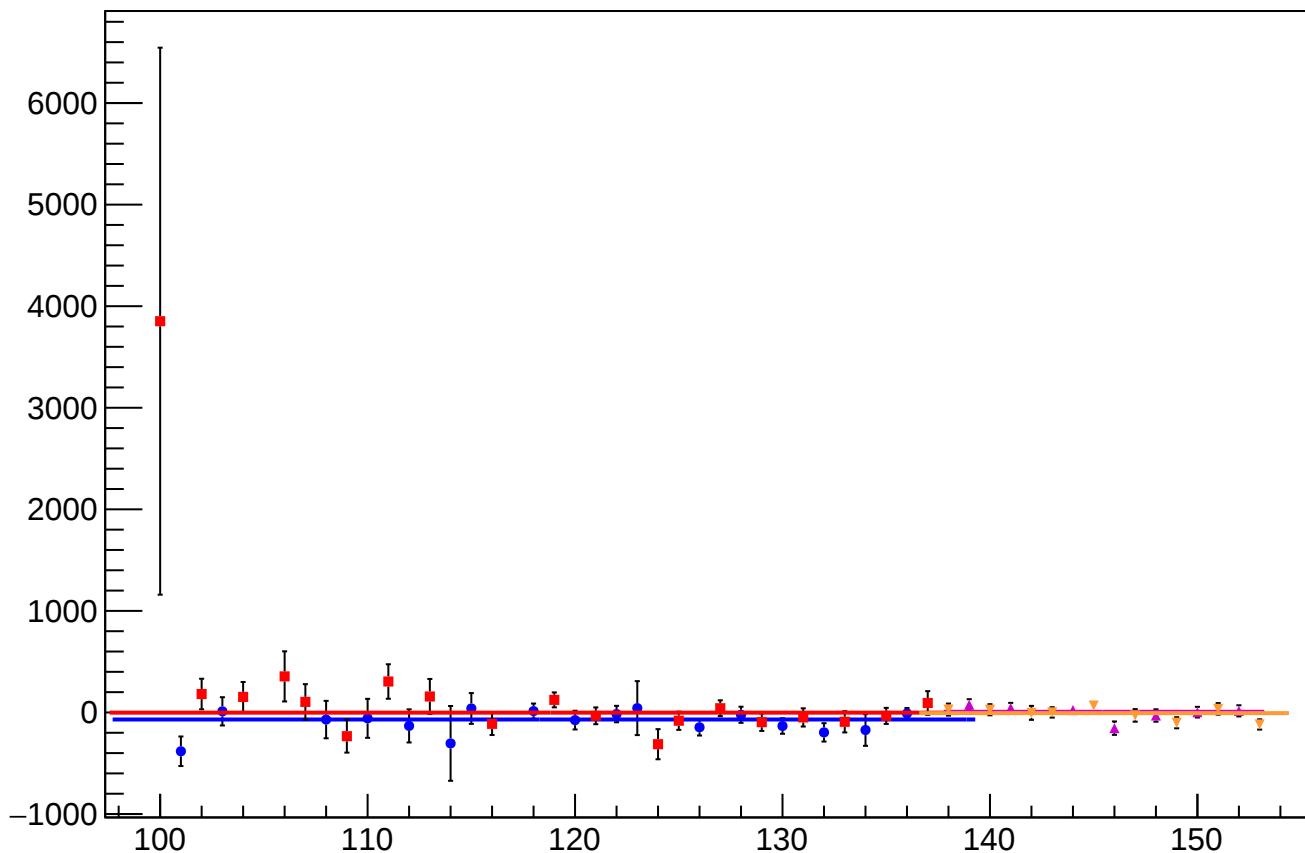
Left In: 367.699+/-0.111  $\chi^2/\text{NDF}$ : 470851.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 369.956+/-0.076  $\chi^2/\text{NDF}$ : 1237419.3/15

- 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:  $-6.557 \pm 17.987$   $\chi^2/\text{NDF}$ : 12.5/8

Right Out:  $-1.744 \pm 25.186$   $\chi^2/\text{NDF}$ : 25.8/18

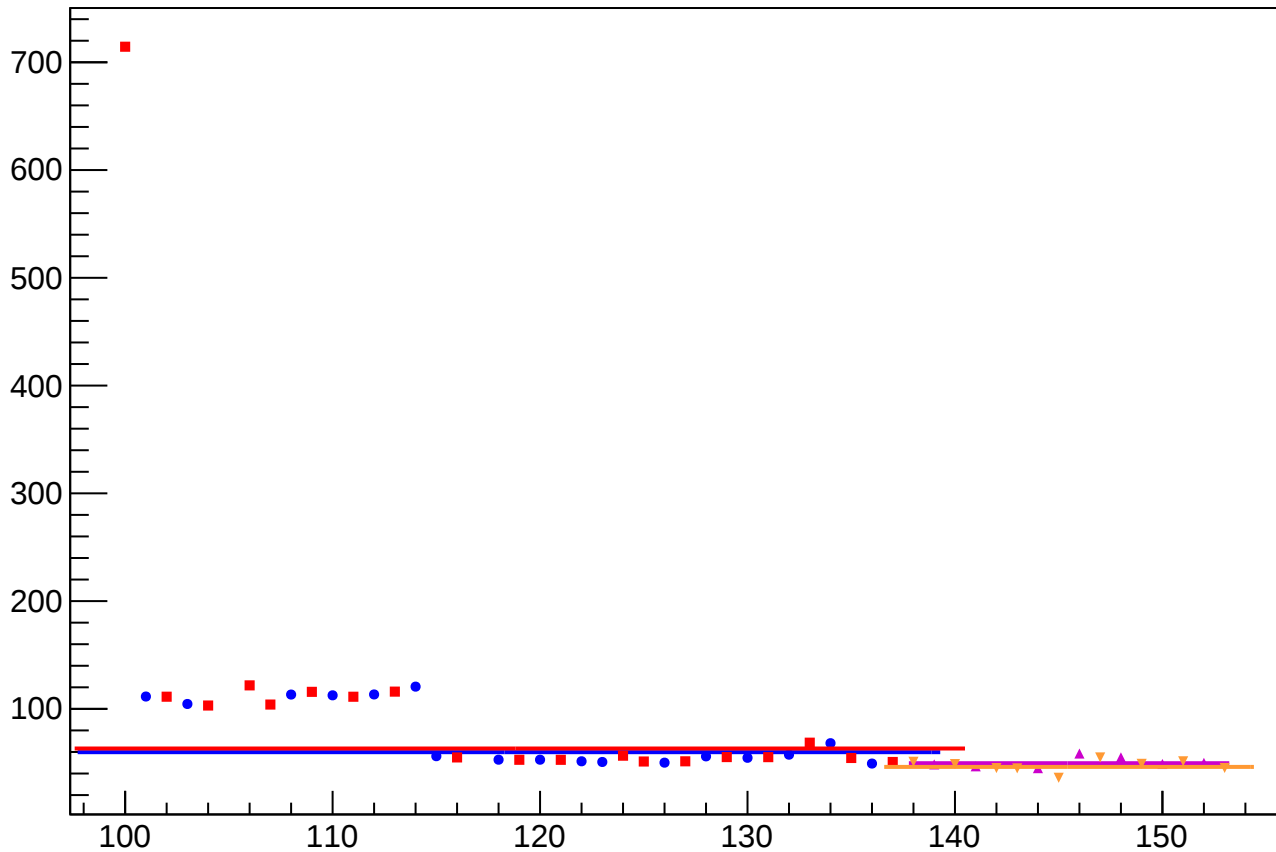
Left In:  $6.762 \pm 20.747$   $\chi^2/\text{NDF}$ : 8.6/6

+ sign  $-28.774 \pm 14.449$   $\chi^2/\text{NDF}$ : 30.3/25

All:  $-14.369 \pm 10.728$   $\chi^2/\text{NDF}$ : 67.0/51

- sign  $3.323 \pm 16.013$   $\chi^2/\text{NDF}$ : 34.5/25

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.809 $\pm$ 0.017  $\chi^2$ /NDF: 1229983.3/16

Left Out: 46.145 $\pm$ 0.013  $\chi^2$ /NDF: 201268.4/8

Right Out: 63.223 $\pm$ 0.018  $\chi^2$ /NDF: 1504271.8/18

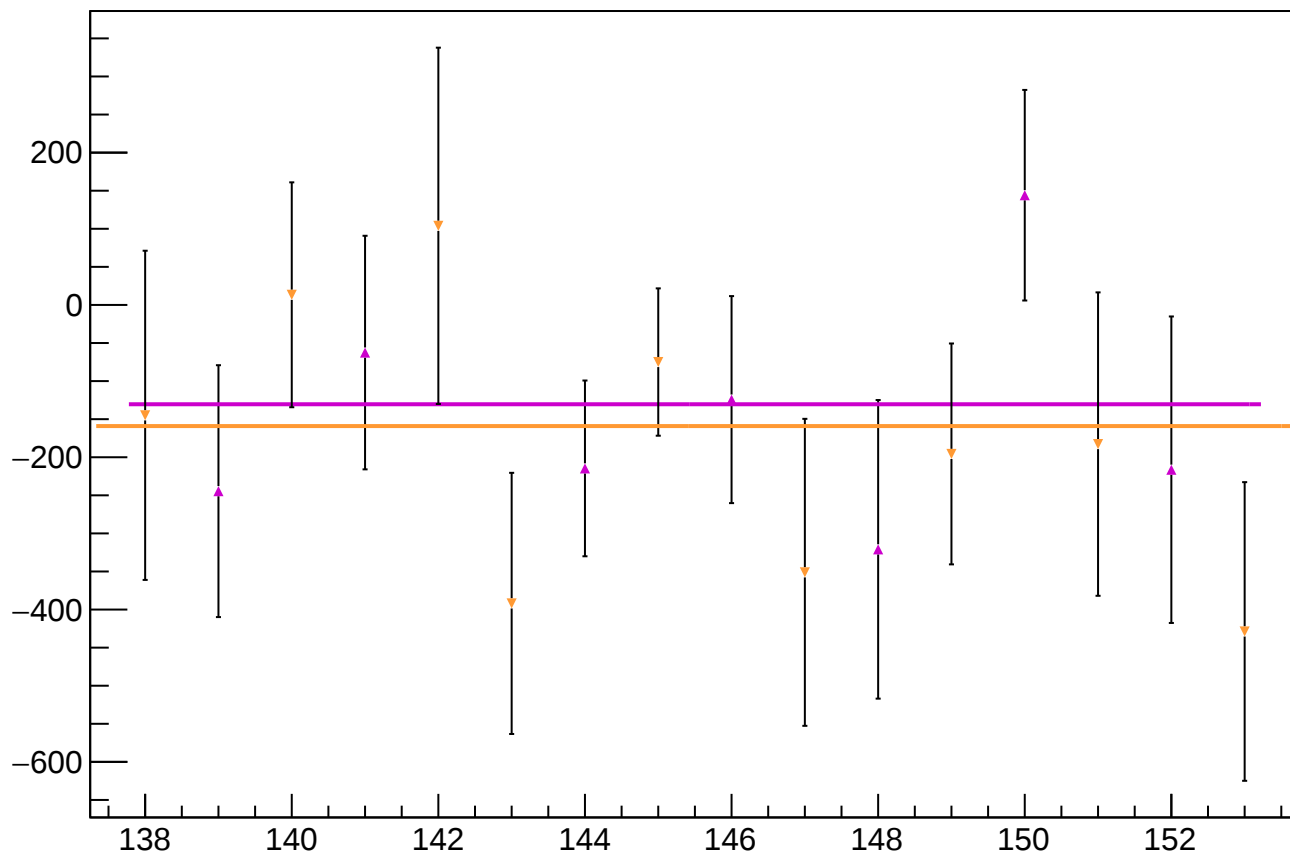
Left In: 49.578 $\pm$ 0.015  $\chi^2$ /NDF: 77387.9/6

+ sign 50.992 $\pm$ 0.010  $\chi^2$ /NDF: 1840649.9/25

All: 52.833 $\pm$ 0.008  $\chi^2$ /NDF: 3844345.8/51

- sign 55.094 $\pm$ 0.011  $\chi^2$ /NDF: 1931341.5/25

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -159.061+/-53.467  $\chi^2/\text{NDF}$ : 8.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

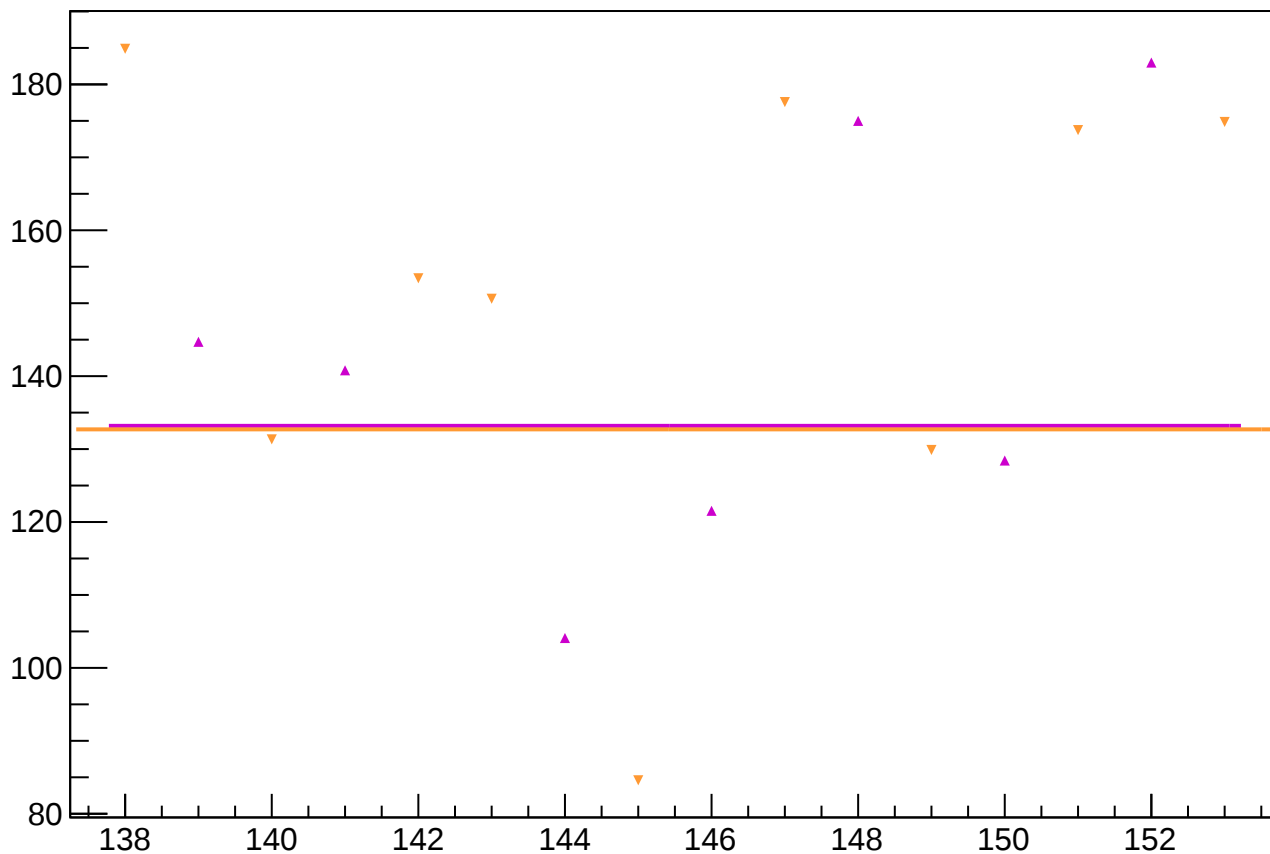
Left In: -130.413+/-56.673  $\chi^2/\text{NDF}$ : 6.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -145.570+/-38.891  $\chi^2/\text{NDF}$ : 14.5/15

- 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: 132.703+/-0.038  $\chi^2/\text{NDF}$ : 926235.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

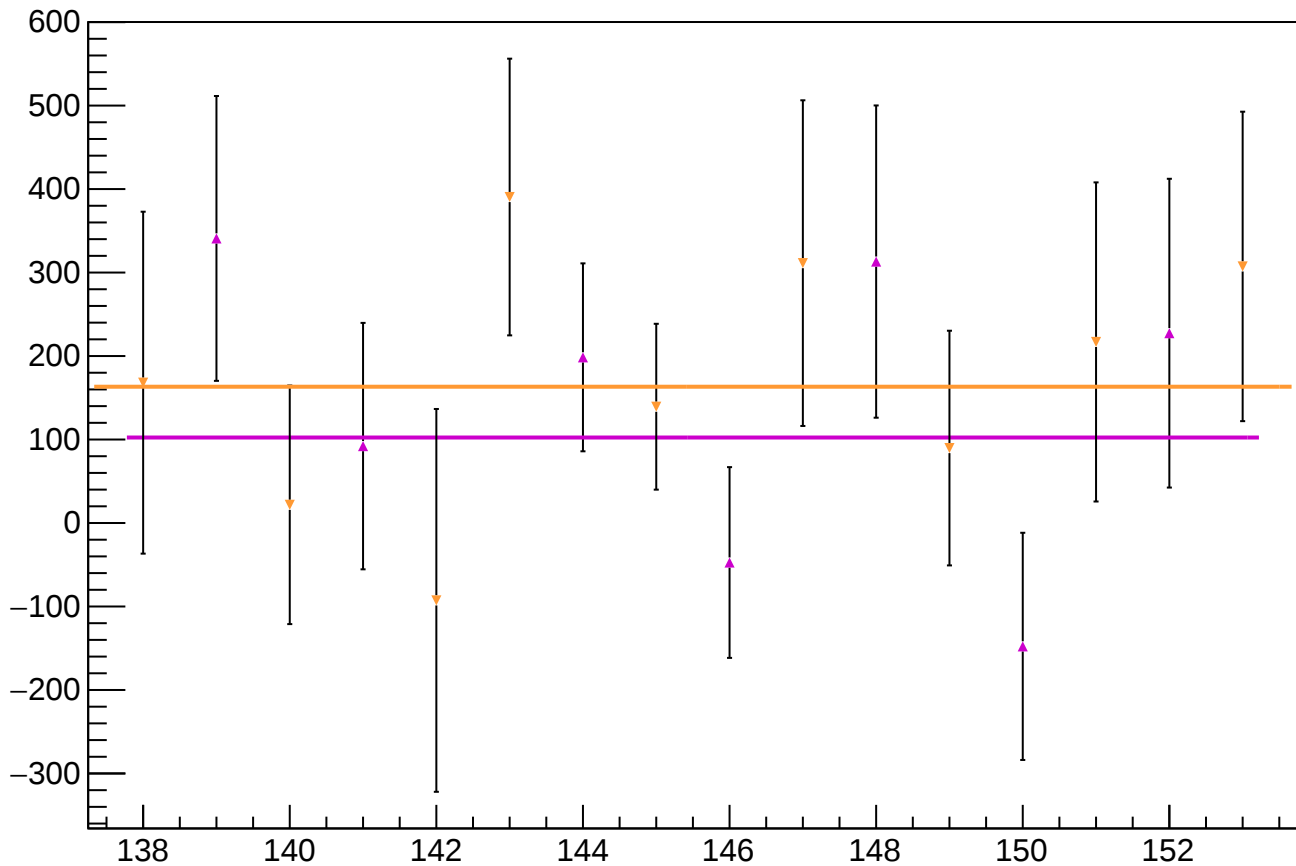
Left In: 133.185+/-0.040  $\chi^2/\text{NDF}$ : 372294.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132.930+/-0.027  $\chi^2/\text{NDF}$ : 1298605.5/15

- 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: 163.247+/-52.486  $\chi^2/\text{NDF}$ : 5.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

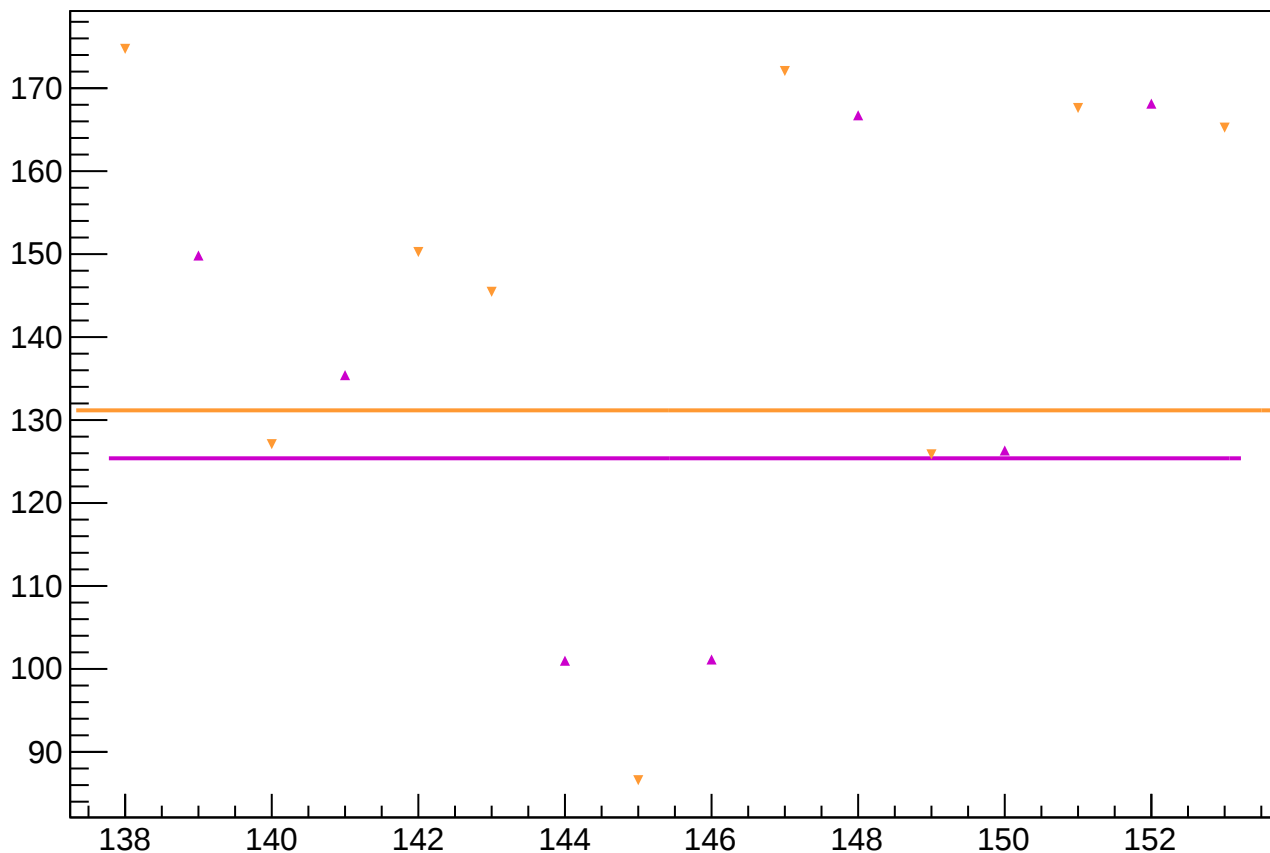
Left In: 102.402+/-53.631  $\chi^2/\text{NDF}$ : 9.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.481+/-37.511  $\chi^2/\text{NDF}$ : 15.9/15

- 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: 131.169+/-0.037  $\chi^2/\text{NDF}$ : 754904.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

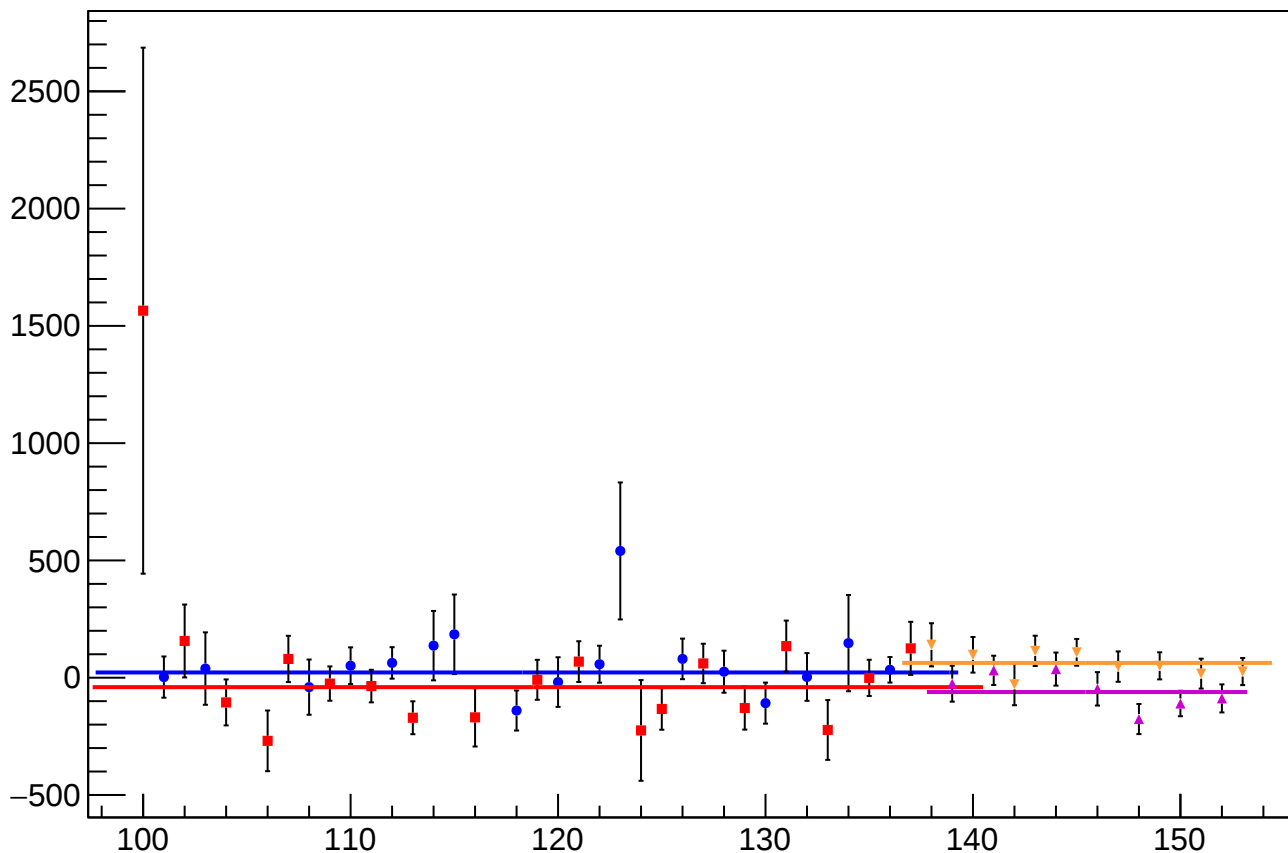
Left In: 125.389+/-0.038  $\chi^2/\text{NDF}$ : 439072.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.341+/-0.027  $\chi^2/\text{NDF}$ : 1205842.9/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $22.361 \pm 22.625$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $63.099 \pm 22.101$   $\chi^2/\text{NDF}$ : 4.2/8

Right Out:  $-40.242 \pm 22.132$   $\chi^2/\text{NDF}$ : 26.3/18

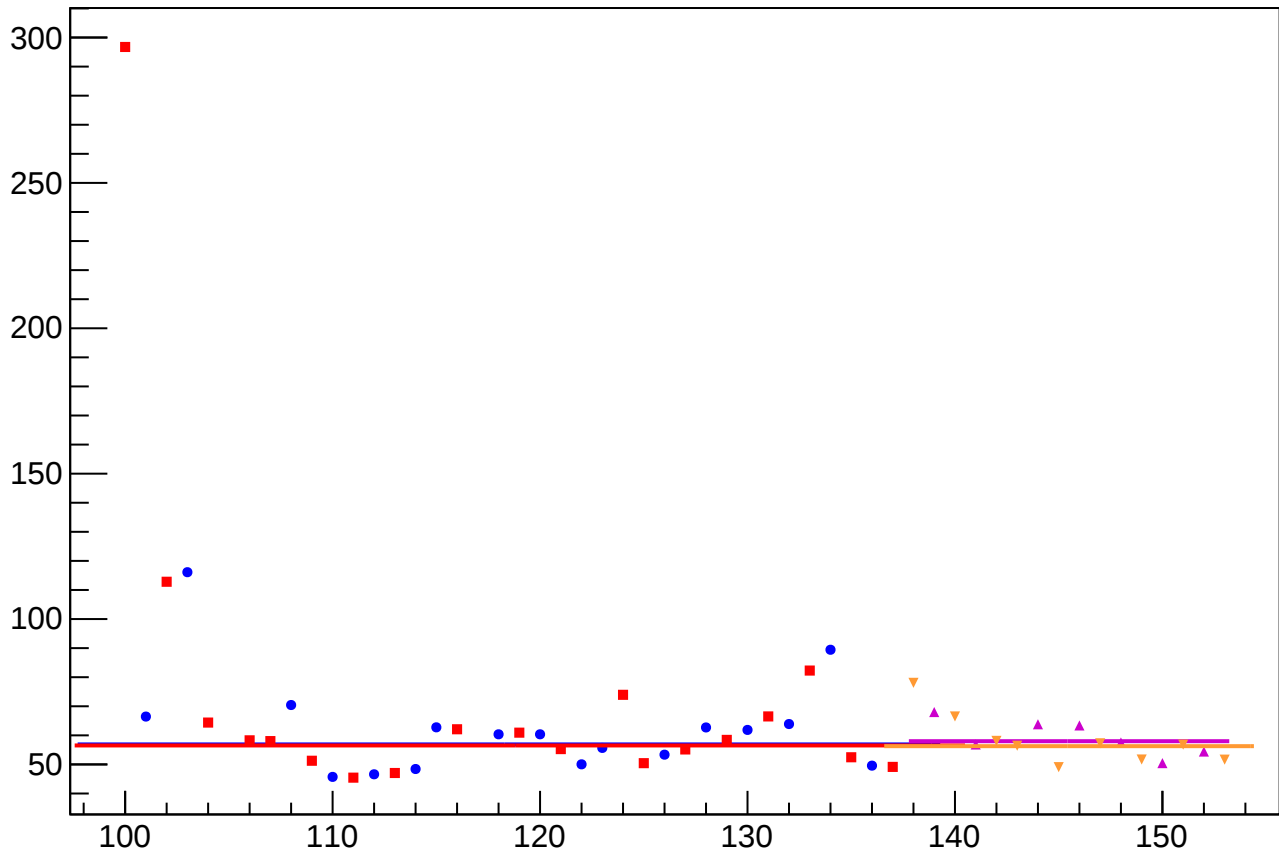
Left In:  $-61.054 \pm 24.347$   $\chi^2/\text{NDF}$ : 8.6/6

+ sign  $43.208 \pm 15.810$   $\chi^2/\text{NDF}$ : 18.5/25

All:  $-1.588 \pm 11.374$   $\chi^2/\text{NDF}$ : 70.4/51

- sign  $-49.658 \pm 16.377$   $\chi^2/\text{NDF}$ : 35.3/25

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 56.879+/-0.016  $\chi^2/\text{NDF}$ : 575487.1/16

Left Out: 56.281+/-0.016  $\chi^2/\text{NDF}$ : 207325.0/8

Right Out: 56.528+/-0.016  $\chi^2/\text{NDF}$ : 612273.7/18

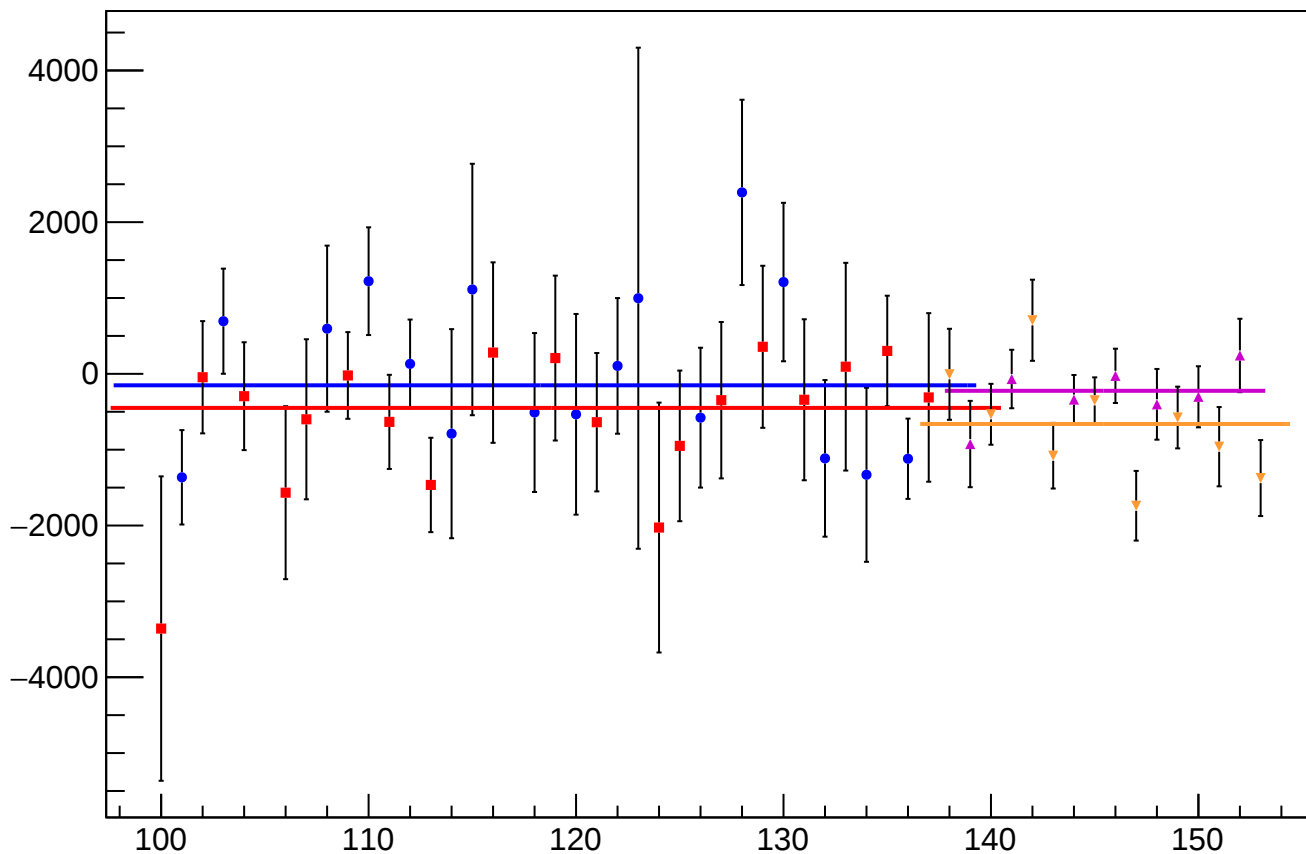
Left In: 57.992+/-0.017  $\chi^2/\text{NDF}$ : 105849.2/6

+ sign 56.573+/-0.011  $\chi^2/\text{NDF}$ : 783525.8/25

All: 56.871+/-0.008  $\chi^2/\text{NDF}$ : 1507081.8/51

- sign 57.190+/-0.012  $\chi^2/\text{NDF}$ : 722085.5/25

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: -151.194 $\pm$ 212.448  $\chi^2$ /NDF: 22.4/16

Left Out: -660.871 $\pm$ 145.687  $\chi^2$ /NDF:17.7/8

Right Out: -448.932 $\pm$ 203.999  $\chi^2$ /NDF: 10.5/18

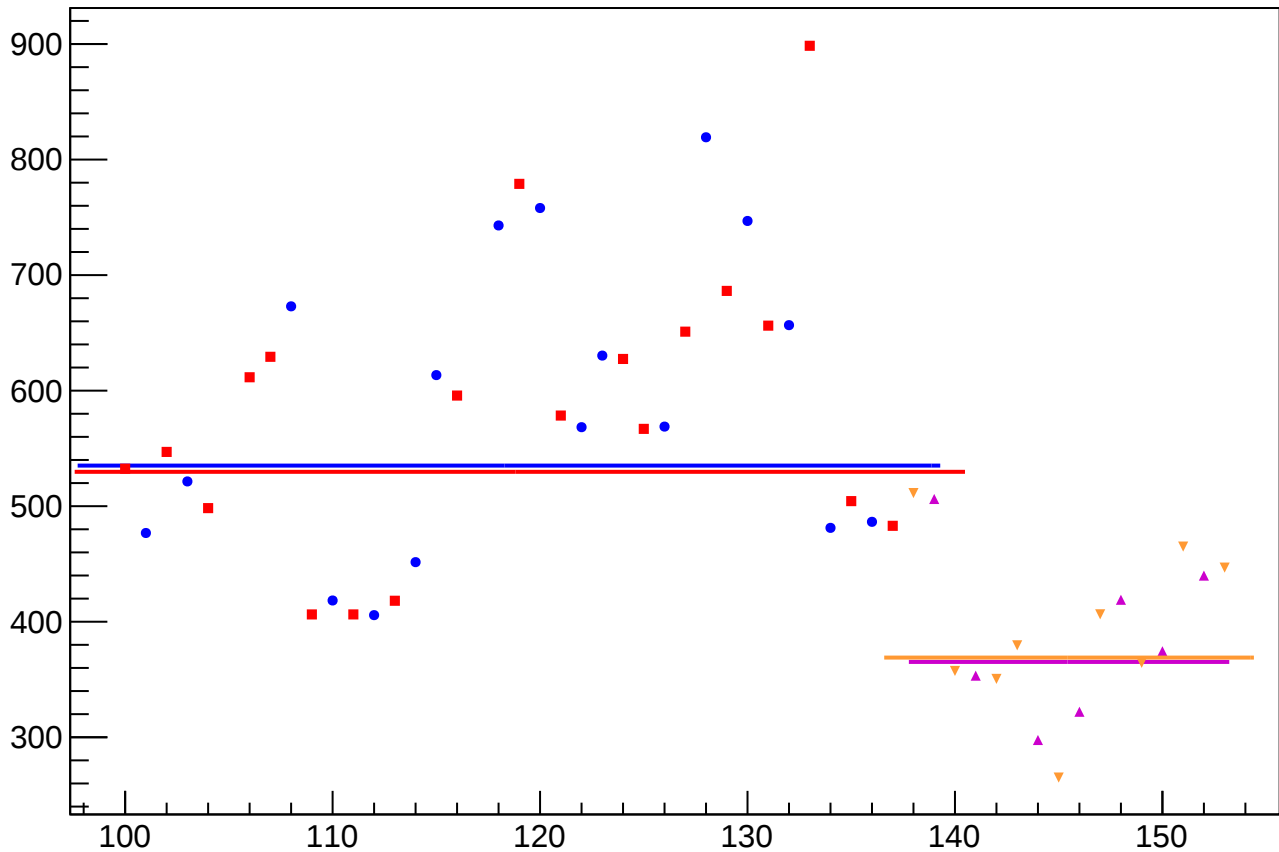
Left In: -223.592 $\pm$ 153.989  $\chi^2$ /NDF:3.2/6

+ sign -497.851 $\pm$ 120.150  $\chi^2$ /NDF: 44.1/25

All: -403.799 $\pm$ 85.916  $\chi^2$ /NDF: 59.9/51

- sign -305.385 $\pm$ 122.904  $\chi^2$ /NDF: 14.5/25

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 535.137 $\pm$ 0.150  $\chi^2$ /NDF: 596084.8/16

Left Out: 368.965 $\pm$ 0.103  $\chi^2$ /NDF: 481619.8/8

Right Out: 529.748 $\pm$ 0.144  $\chi^2$ /NDF: 646729.4/18

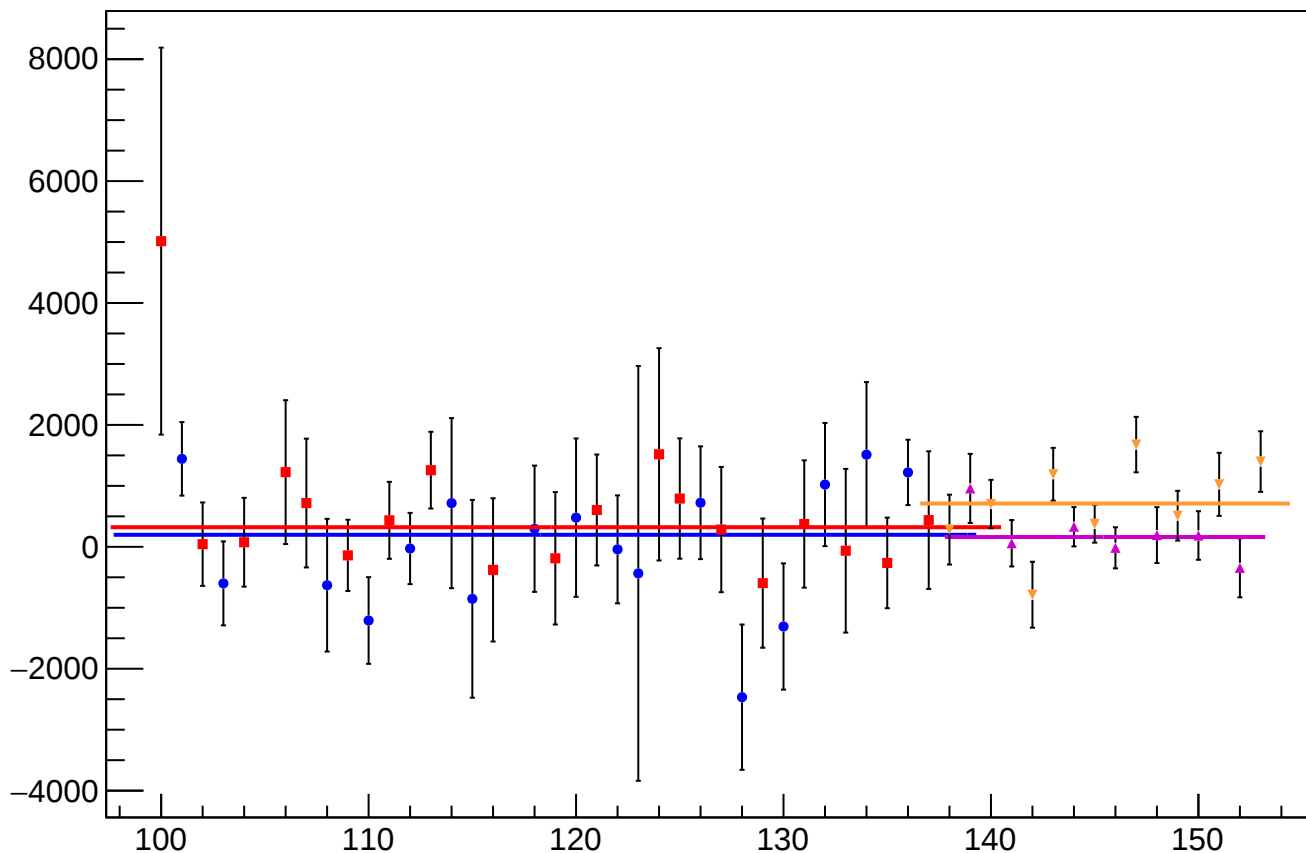
Left In: 365.197 $\pm$ 0.109  $\chi^2$ /NDF: 316012.0/6

+ sign 422.115 $\pm$ 0.085  $\chi^2$ /NDF: 1909942.1/25

All: 423.488 $\pm$ 0.061  $\chi^2$ /NDF: 3702178.9/51

- sign 424.925 $\pm$ 0.087  $\chi^2$ /NDF: 1791702.4/25

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $197.561 \pm 211.480$   $\chi^2/\text{NDF}$ : 23.9/16

Left Out:  $710.763 \pm 145.414$   $\chi^2/\text{NDF}$ : 17.7/8

Right Out:  $321.565 \pm 205.269$   $\chi^2/\text{NDF}$ : 8.9/18

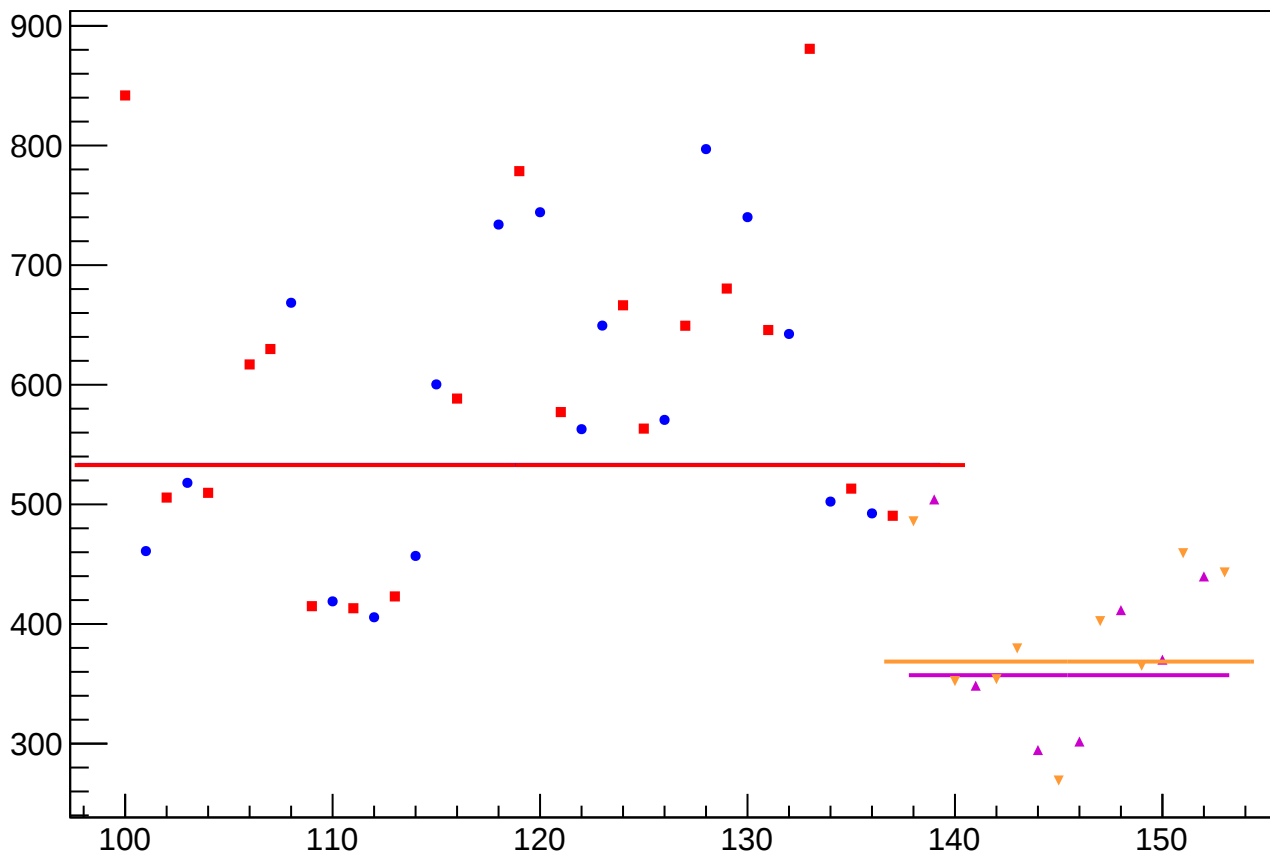
Left In:  $160.765 \pm 151.131$   $\chi^2/\text{NDF}$ : 3.7/6

+ sign  $546.014 \pm 119.821$   $\chi^2/\text{NDF}$ : 45.6/25

All:  $384.213 \pm 85.384$   $\chi^2/\text{NDF}$ : 62.3/51

- sign  $217.290 \pm 121.703$   $\chi^2/\text{NDF}$ : 13.0/25

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 533.031+/-0.150  $\chi^2/\text{NDF}$ : 566851.1/16

Left Out: 368.594+/-0.103  $\chi^2/\text{NDF}$ : 415115.9/8

Right Out: 532.857+/-0.145  $\chi^2/\text{NDF}$ : 616953.9/18

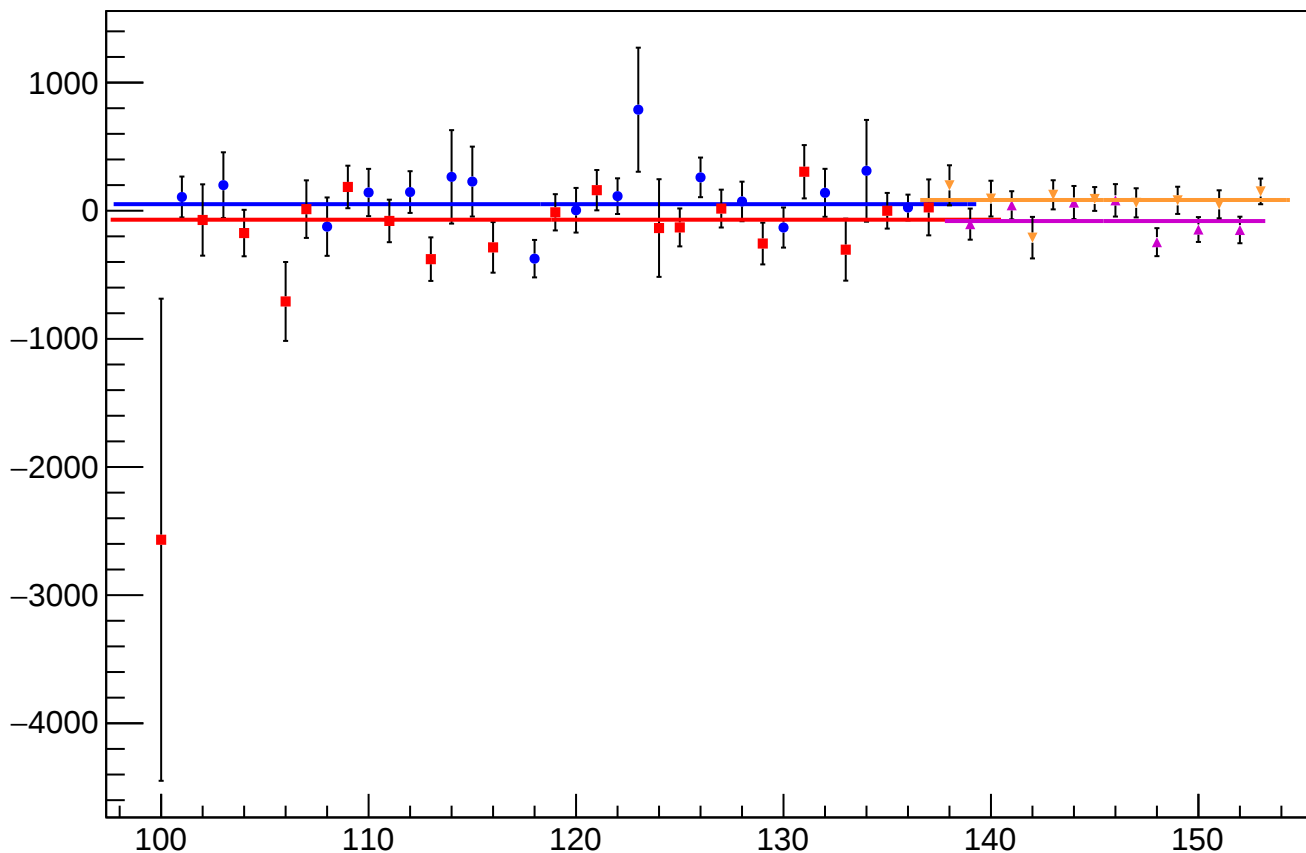
Left In: 357.209+/-0.107  $\chi^2/\text{NDF}$ : 353565.7/6

+ sign 421.381+/-0.085  $\chi^2/\text{NDF}$ : 1802982.6/25

All: 420.186+/-0.060  $\chi^2/\text{NDF}$ : 3723557.5/51

- sign 418.953+/-0.086  $\chi^2/\text{NDF}$ : 1920170.6/25

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 83.812 $\pm$ 38.545  $\chi^2$ /NDF: 4.5/8

Right Out: -70.072 $\pm$ 42.792  $\chi^2$ /NDF: 22.1/18

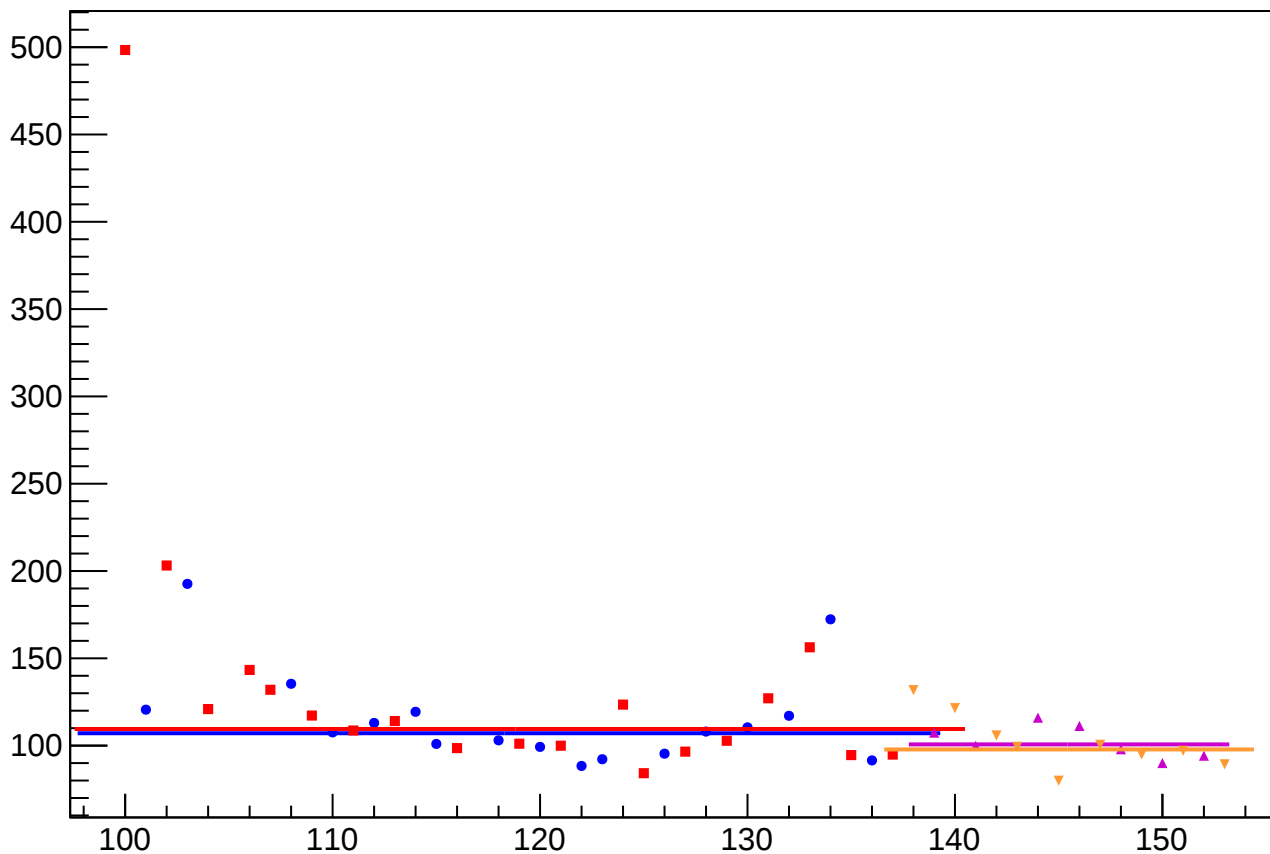
Left In: -80.504 $\pm$ 42.398  $\chi^2$ /NDF: 7.4/6

+ sign 69.046 $\pm$ 28.526  $\chi^2$ /NDF: 22.2/25

All: 0.772 $\pm$ 20.711  $\chi^2$ /NDF: 63.9/51

- sign -75.336 $\pm$ 30.118  $\chi^2$ /NDF: 29.5/25

# dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 97.815 $\pm$ 0.027  $\chi^2$ /NDF: 248379.7/8

Right Out: 109.530 $\pm$ 0.030  $\chi^2$ /NDF: 591522.9/18

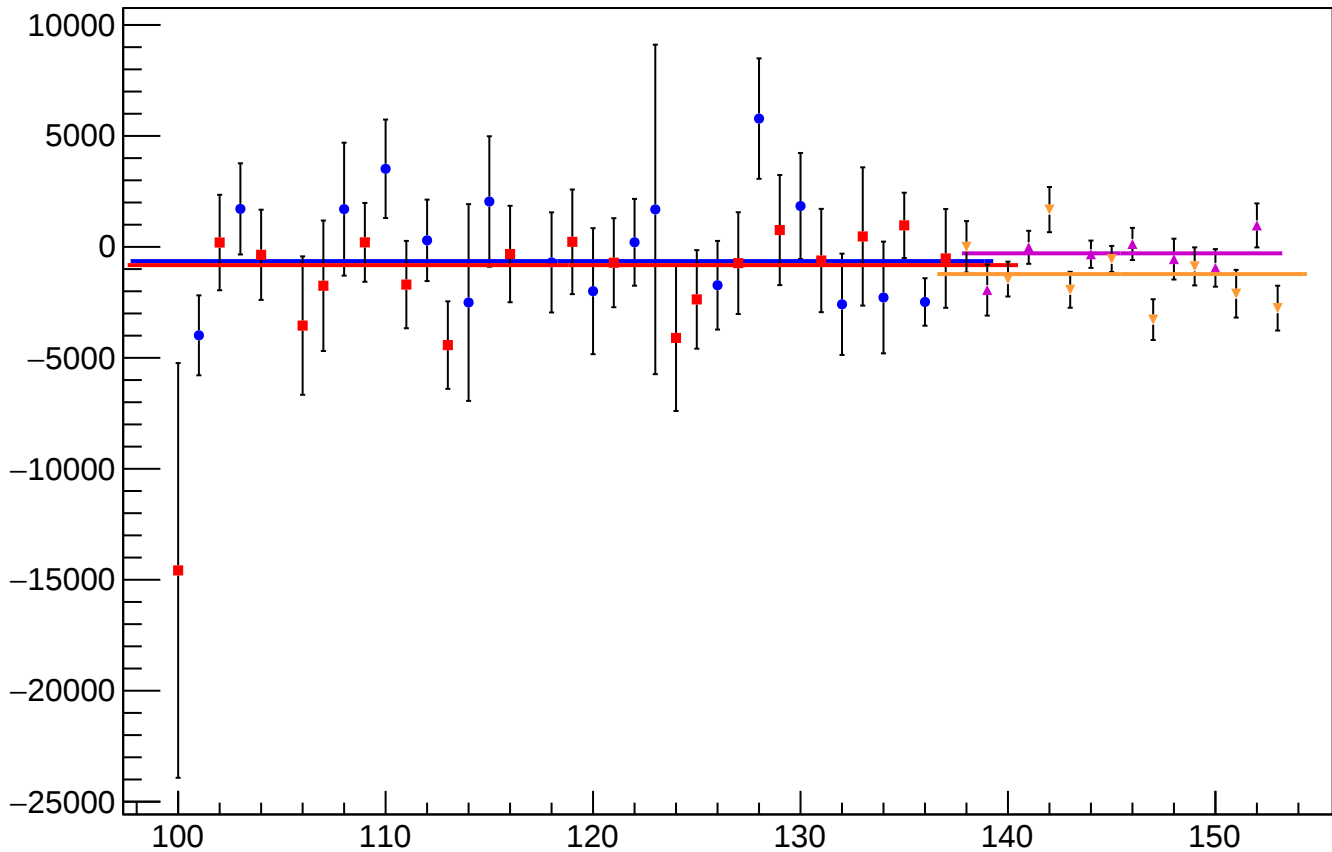
Left In: 100.704 $\pm$ 0.030  $\chi^2$ /NDF: 81580.0/6

+ sign 102.012 $\pm$ 0.020  $\chi^2$ /NDF: 738554.3/25

All: 103.461 $\pm$ 0.015  $\chi^2$ /NDF: 1465512.0/51

- sign 105.076 $\pm$ 0.021  $\chi^2$ /NDF: 716042.4/25

# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In:  $-639.847 \pm 519.248$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-1224.532 \pm 286.885$   $\chi^2/\text{NDF}$ : 19.6/8

Right Out:  $-821.471 \pm 515.663$   $\chi^2/\text{NDF}$ : 11.0/18

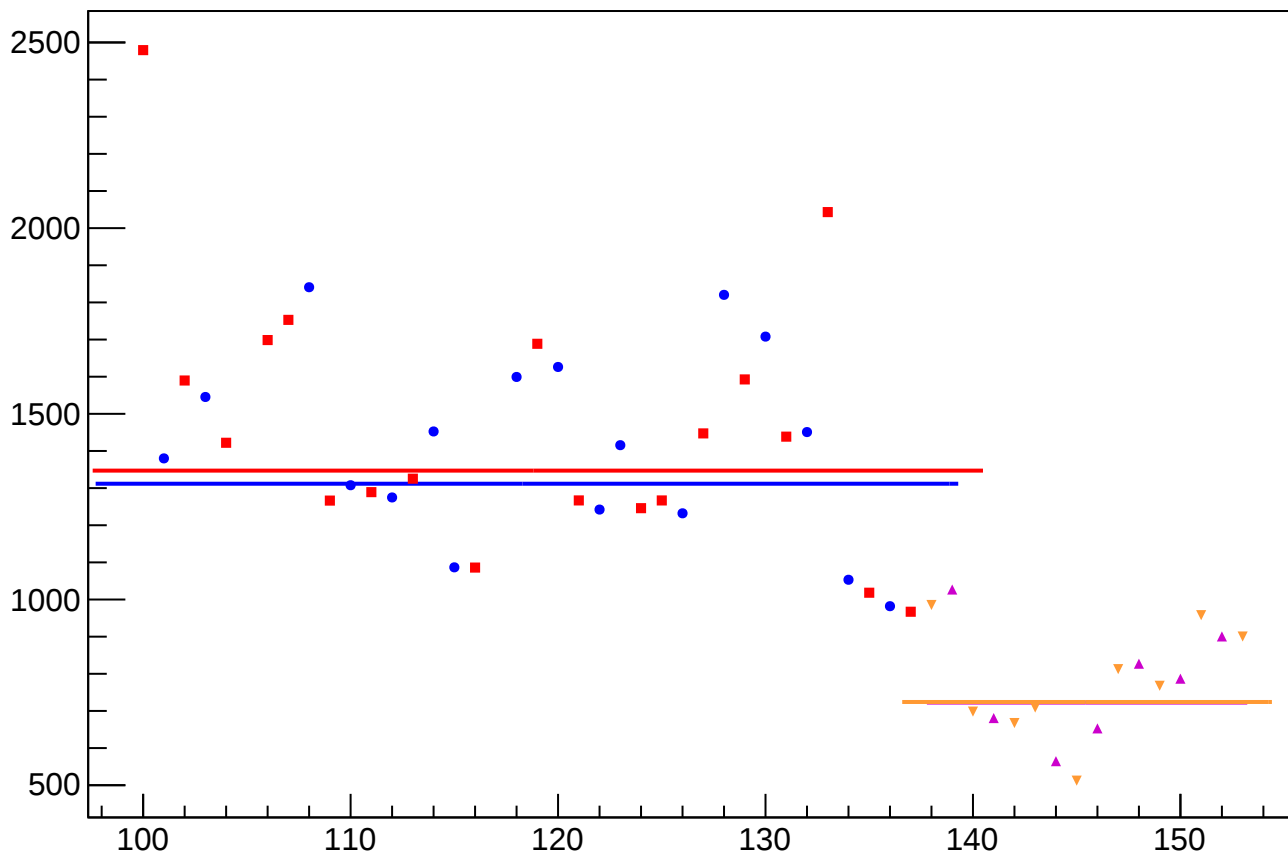
Left In:  $-289.865 \pm 305.686$   $\chi^2/\text{NDF}$ : 4.8/6

+ sign  $-1087.793 \pm 251.107$   $\chi^2/\text{NDF}$ : 42.3/25

All:  $-773.143 \pm 181.604$   $\chi^2/\text{NDF}$ : 62.2/51

- sign  $-428.101 \pm 262.955$   $\chi^2/\text{NDF}$ : 16.6/25

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1311.795+/-0.367  $\chi^2/\text{NDF}$ : 512676.0/16

Left Out: 724.115+/-0.203  $\chi^2/\text{NDF}$ : 550152.1/8

Right Out: 1347.117+/-0.365  $\chi^2/\text{NDF}$ : 490460.8/18

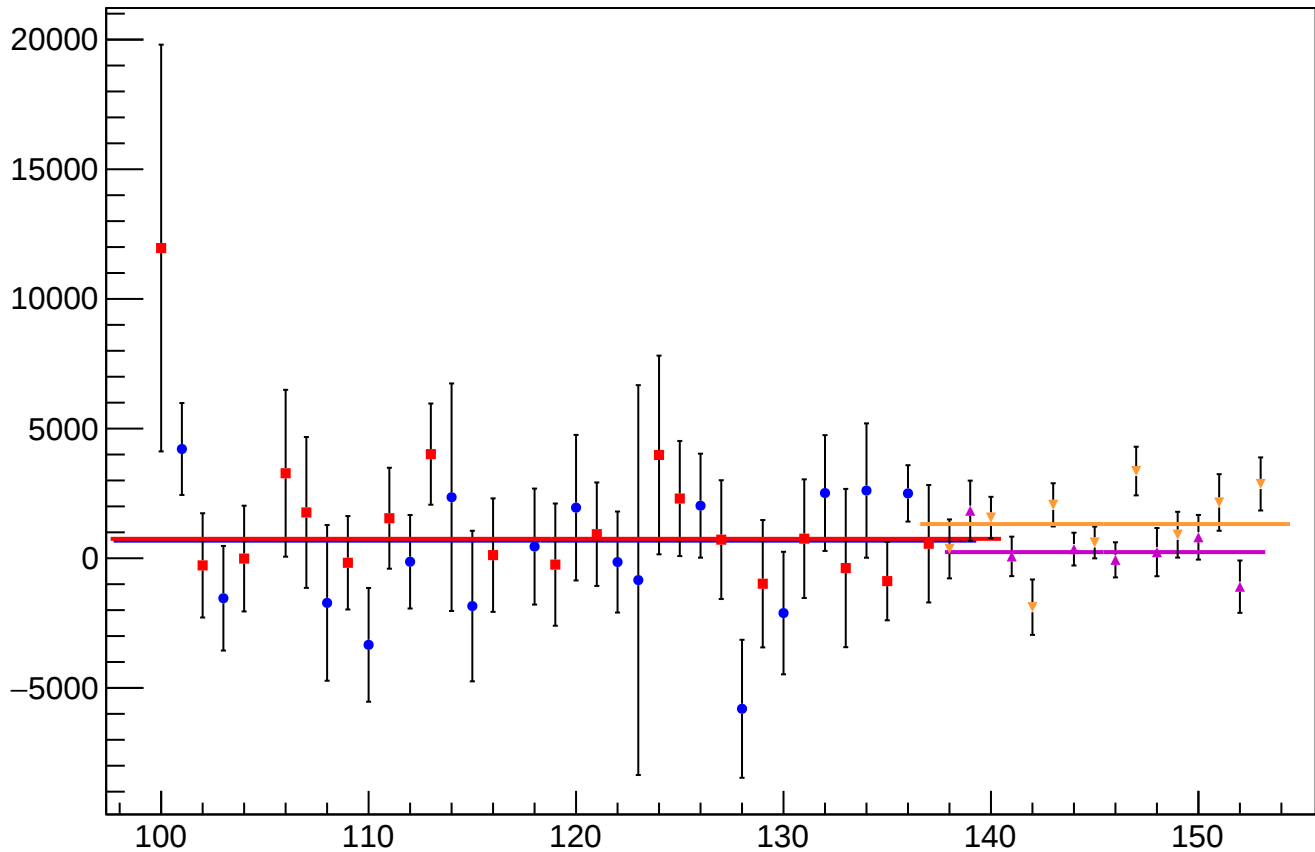
Left In: 722.495+/-0.216  $\chi^2/\text{NDF}$ : 397565.5/6

+ sign 861.554+/-0.178  $\chi^2/\text{NDF}$ : 3025585.3/25

All: 872.698+/-0.128  $\chi^2/\text{NDF}$ : 6093287.2/51

- sign 884.919+/-0.186  $\chi^2/\text{NDF}$ : 3059442.9/25

# asym\_sam\_2468\_avg\_mean vs Slug



Right In:  $679.925 \pm 517.508$   $\chi^2/\text{NDF}$ : 22.6/16

Left Out:  $1319.033 \pm 294.453$   $\chi^2/\text{NDF}$ : 19.8/8

Right Out:  $749.718 \pm 516.198$   $\chi^2/\text{NDF}$ : 9.7/18

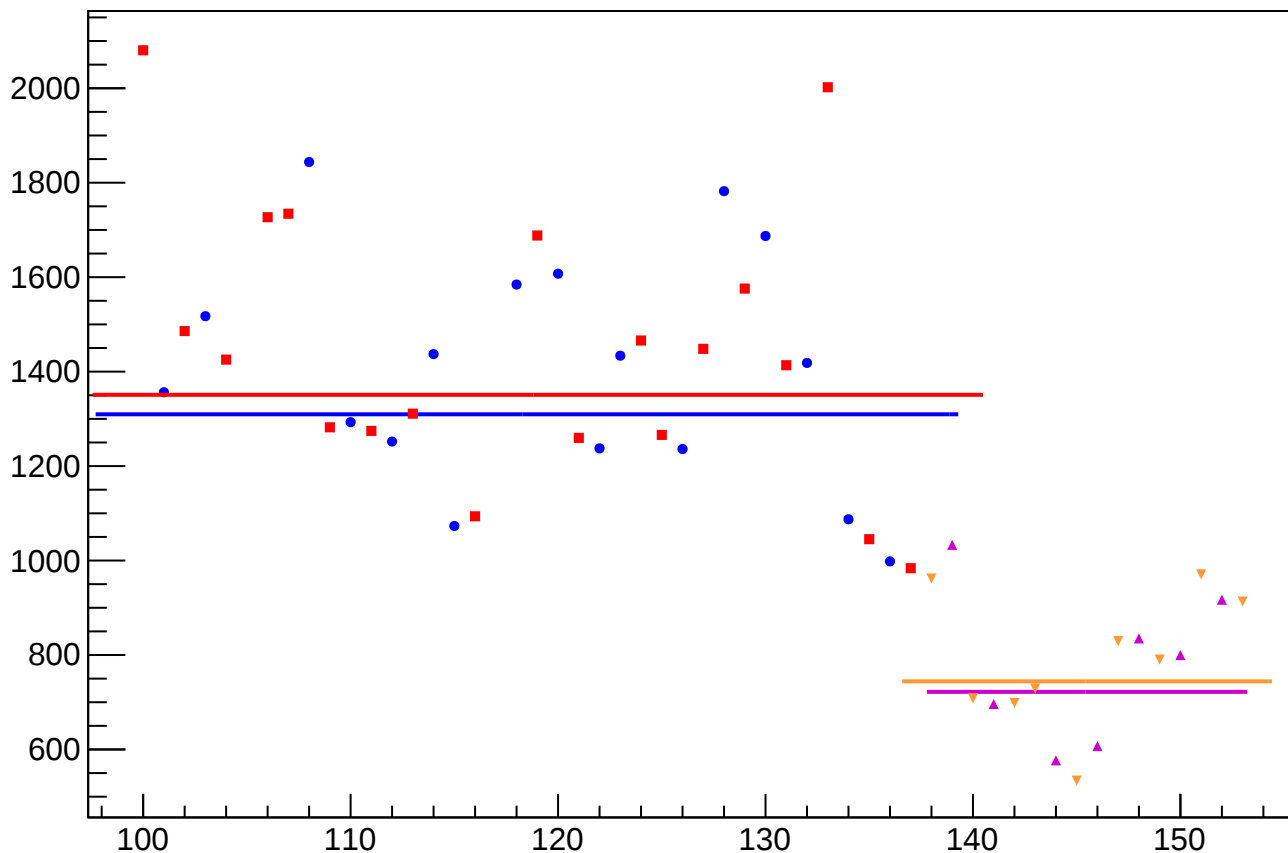
Left In:  $237.246 \pm 306.480$   $\chi^2/\text{NDF}$ : 4.4/6

+ sign  $1162.729 \pm 255.926$   $\chi^2/\text{NDF}$ : 43.5/25

All:  $778.362 \pm 183.597$   $\chi^2/\text{NDF}$ : 62.9/51

- sign  $370.813 \pm 263.531$   $\chi^2/\text{NDF}$ : 14.8/25

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1309.654+/-0.366  $\chi^2/\text{NDF}$ : 459314.8/16

Left Out: 744.205+/-0.208  $\chi^2/\text{NDF}$ : 479110.4/8

Right Out: 1350.942+/-0.365  $\chi^2/\text{NDF}$ : 422723.4/18

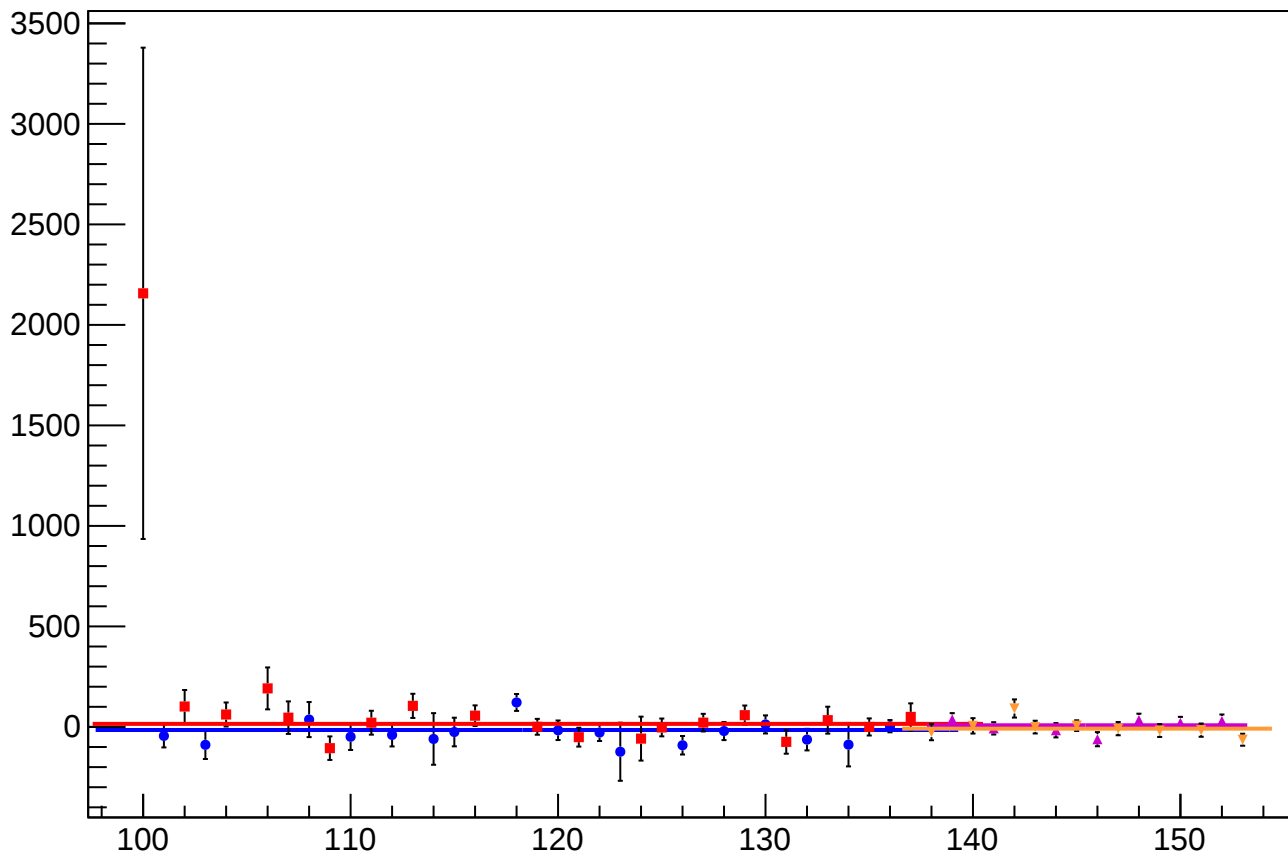
Left In: 722.001+/-0.217  $\chi^2/\text{NDF}$ : 429867.5/6

+ sign 882.495+/-0.181  $\chi^2/\text{NDF}$ : 2742187.5/25

All: 884.159+/-0.130  $\chi^2/\text{NDF}$ : 5790167.2/51

- sign 885.924+/-0.186  $\chi^2/\text{NDF}$ : 3047805.3/25

# 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:  $-8.711 \pm 11.094$   $\chi^2/\text{NDF}$ : 9.2/8

Right Out:  $15.085 \pm 13.097$   $\chi^2/\text{NDF}$ : 21.3/18

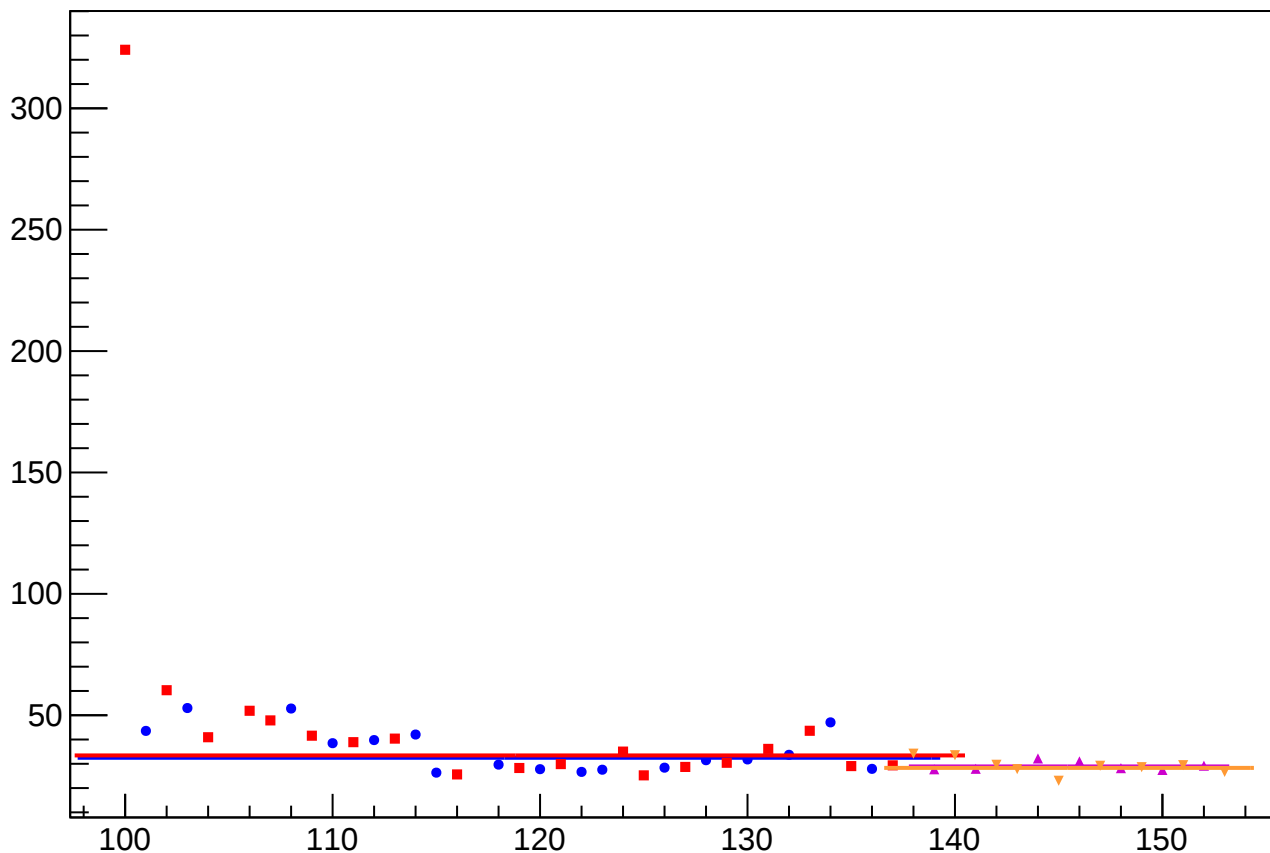
Left In:  $8.087 \pm 12.124$   $\chi^2/\text{NDF}$ : 6.8/6

+ sign  $-11.503 \pm 8.413$   $\chi^2/\text{NDF}$ : 27.6/25

All:  $-0.730 \pm 6.113$   $\chi^2/\text{NDF}$ : 59.3/51

- sign  $11.316 \pm 8.897$   $\chi^2/\text{NDF}$ : 28.2/25

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.489+/-0.009  $\chi^2/\text{NDF}$ : 594480.9/16

Left Out: 28.310+/-0.008  $\chi^2/\text{NDF}$ : 170688.6/8

Right Out: 33.444+/-0.009  $\chi^2/\text{NDF}$ : 838344.2/18

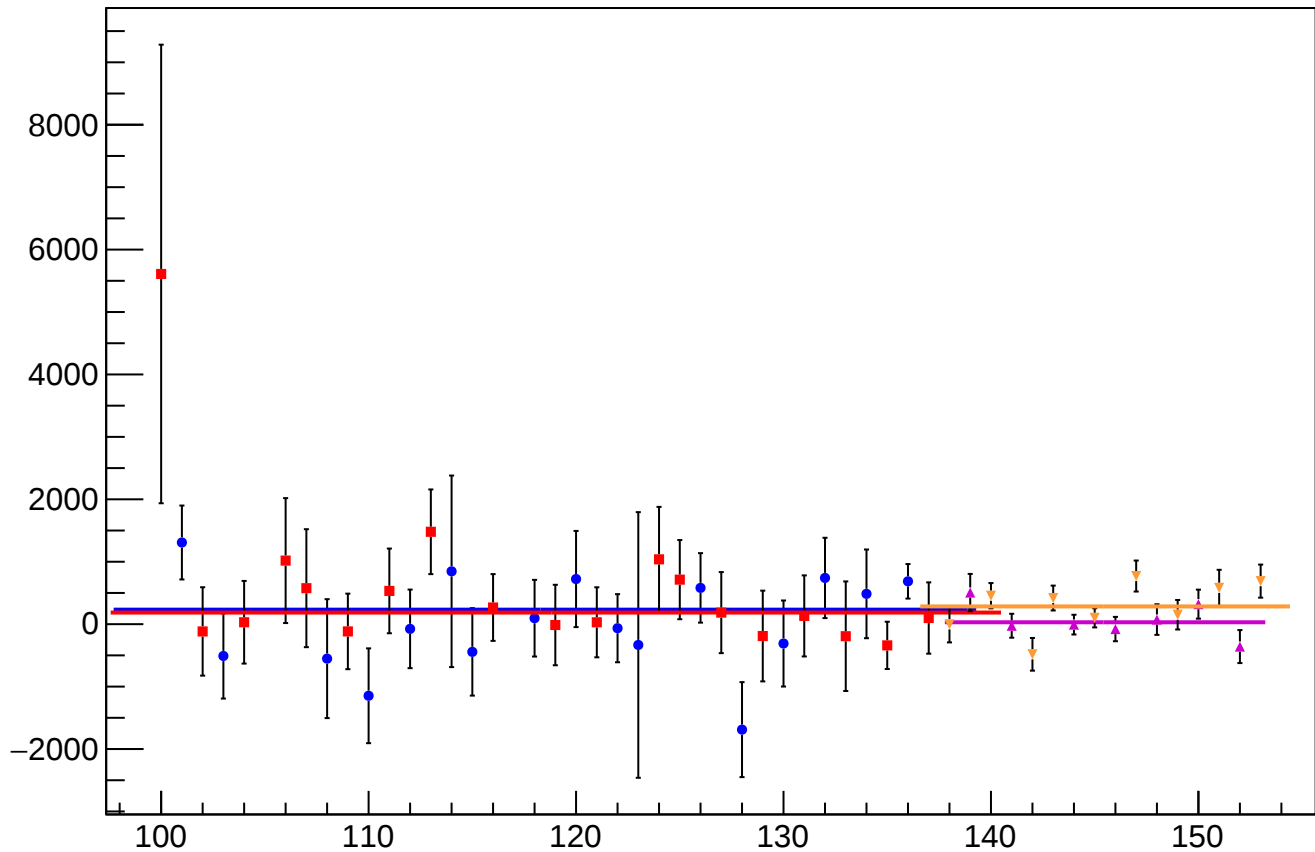
Left In: 28.909+/-0.009  $\chi^2/\text{NDF}$ : 34880.3/6

+ sign 30.086+/-0.006  $\chi^2/\text{NDF}$ : 885751.2/25

All: 30.518+/-0.004  $\chi^2/\text{NDF}$ : 1899361.3/51

- sign 31.002+/-0.006  $\chi^2/\text{NDF}$ : 1002413.1/25

# asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 232.332 $\pm$ 148.607  $\chi^2/\text{NDF}$ : 21.5/16

Left Out: 284.253 $\pm$ 74.727  $\chi^2/\text{NDF}$ : 19.7/8

Right Out: 186.198 $\pm$ 149.878  $\chi^2/\text{NDF}$ : 11.8/18

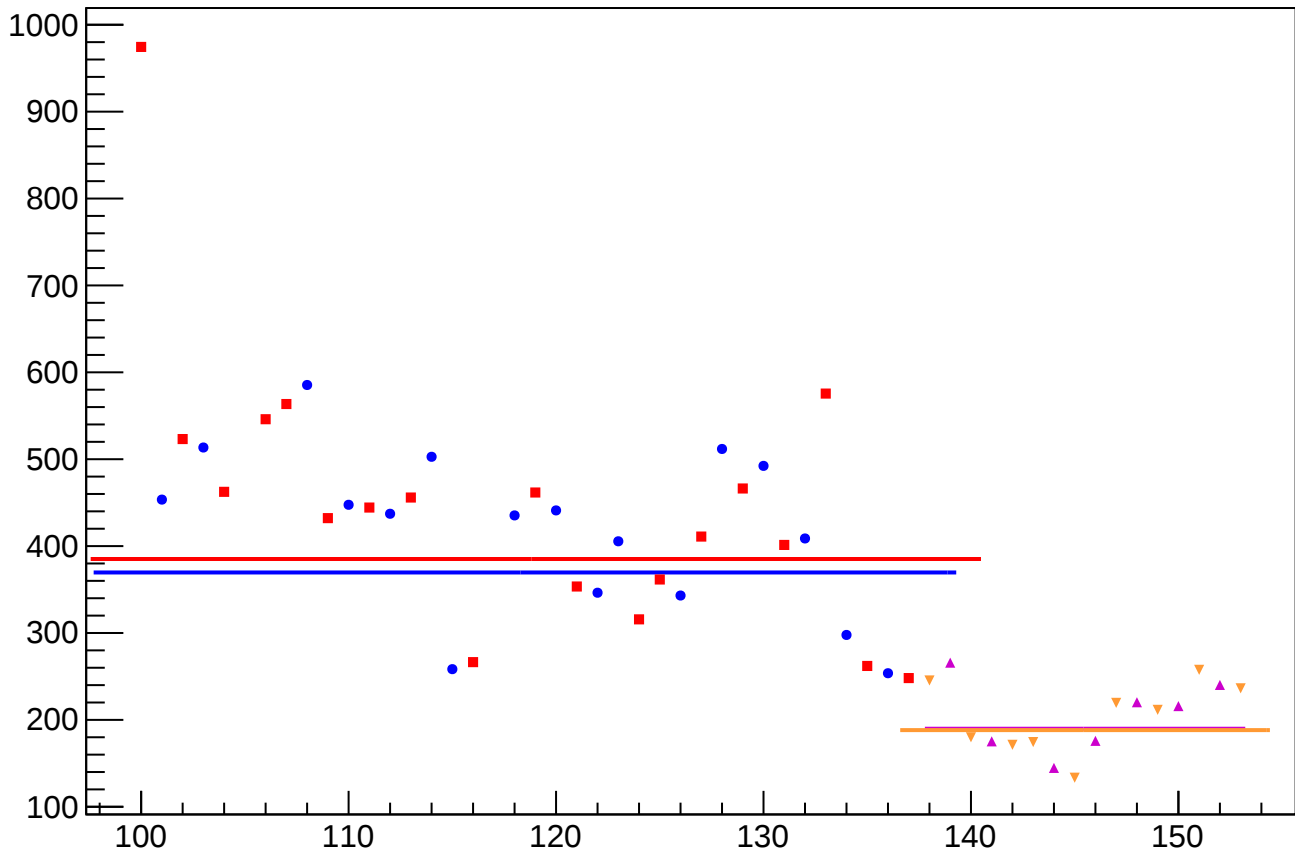
Left In: 30.366 $\pm$ 80.487  $\chi^2/\text{NDF}$ : 6.8/6

+ sign 273.774 $\pm$ 66.761  $\chi^2/\text{NDF}$ : 41.3/25

All: 175.787 $\pm$ 48.608  $\chi^2/\text{NDF}$ : 65.2/51

- sign 65.246 $\pm$ 70.909  $\chi^2/\text{NDF}$ : 19.4/25

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 369.650+/-0.105  $\chi^2/\text{NDF}$ : 902775.2/16

Left Out: 188.226+/-0.053  $\chi^2/\text{NDF}$ : 587552.3/8

Right Out: 385.154+/-0.106  $\chi^2/\text{NDF}$ : 926572.0/18

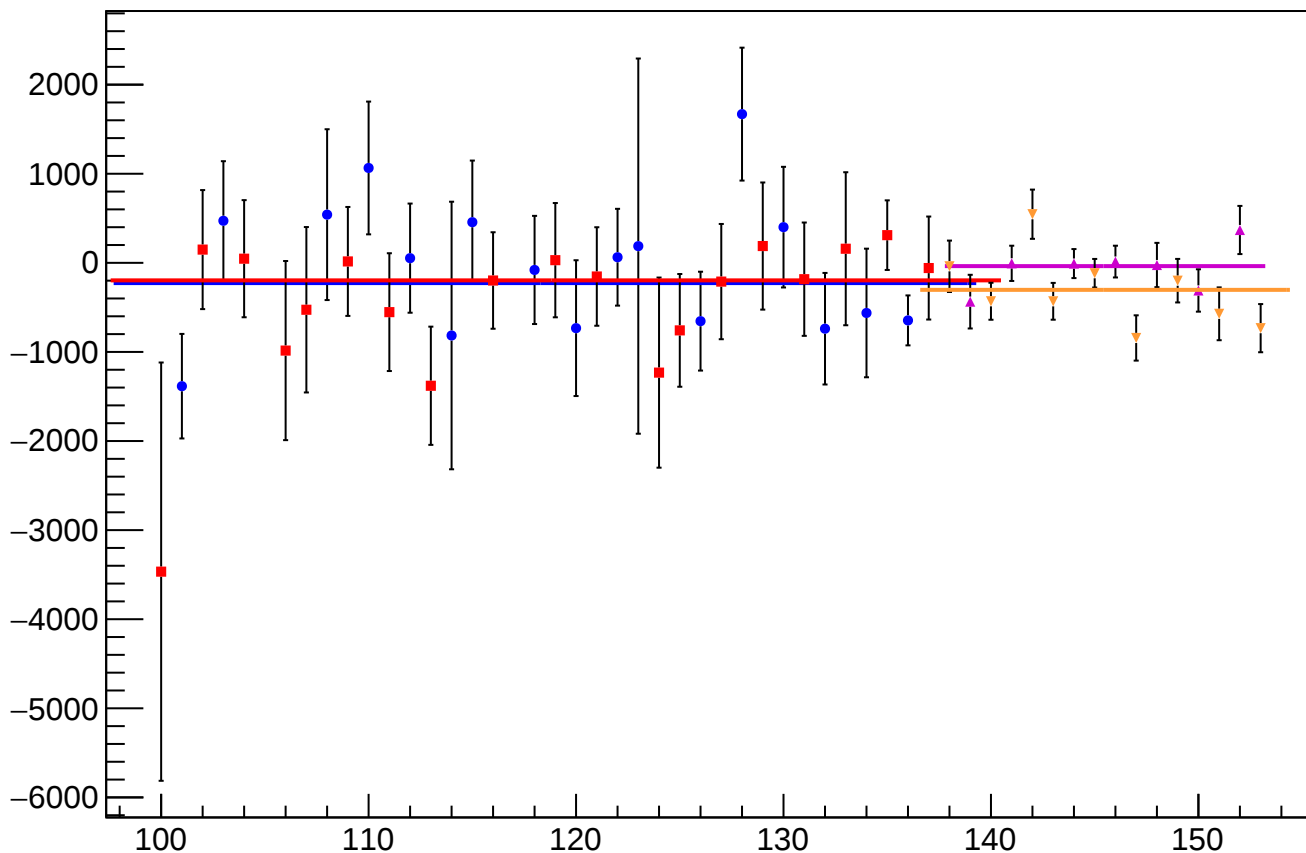
Left In: 189.816+/-0.057  $\chi^2/\text{NDF}$ : 443497.2/6

+ sign 224.842+/-0.047  $\chi^2/\text{NDF}$ : 3869558.7/25

All: 228.929+/-0.034  $\chi^2/\text{NDF}$ : 7892418.5/51

- sign 233.539+/-0.050  $\chi^2/\text{NDF}$ : 4006909.0/25

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-303.267 \pm 77.161$   $\chi^2/\text{NDF}$ : 20.4/8

Right Out:  $-196.753 \pm 150.178$   $\chi^2/\text{NDF}$ : 10.7/18

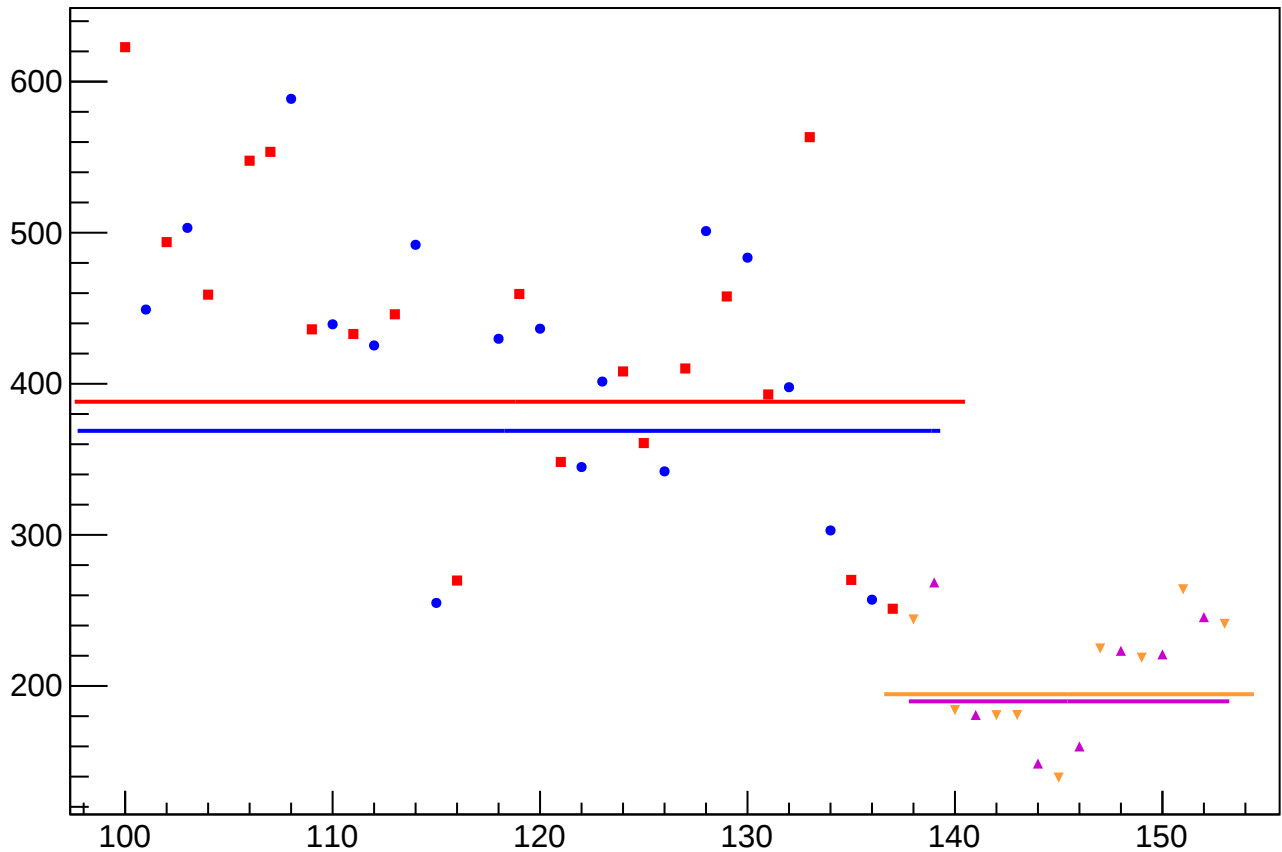
Left In:  $-36.822 \pm 80.762$   $\chi^2/\text{NDF}$ : 5.5/6

+ sign  $-287.013 \pm 68.413$   $\chi^2/\text{NDF}$ : 42.5/25

All:  $-184.025 \pm 49.308$   $\chi^2/\text{NDF}$ : 64.3/51

- sign  $-72.699 \pm 71.129$   $\chi^2/\text{NDF}$ : 17.1/25

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.864 $\pm$ 0.105  $\chi^2$ /NDF: 829732.0/16

Left Out: 194.542 $\pm$ 0.055  $\chi^2$ /NDF: 532034.5/8

Right Out: 388.129 $\pm$ 0.106  $\chi^2$ /NDF: 778176.0/18

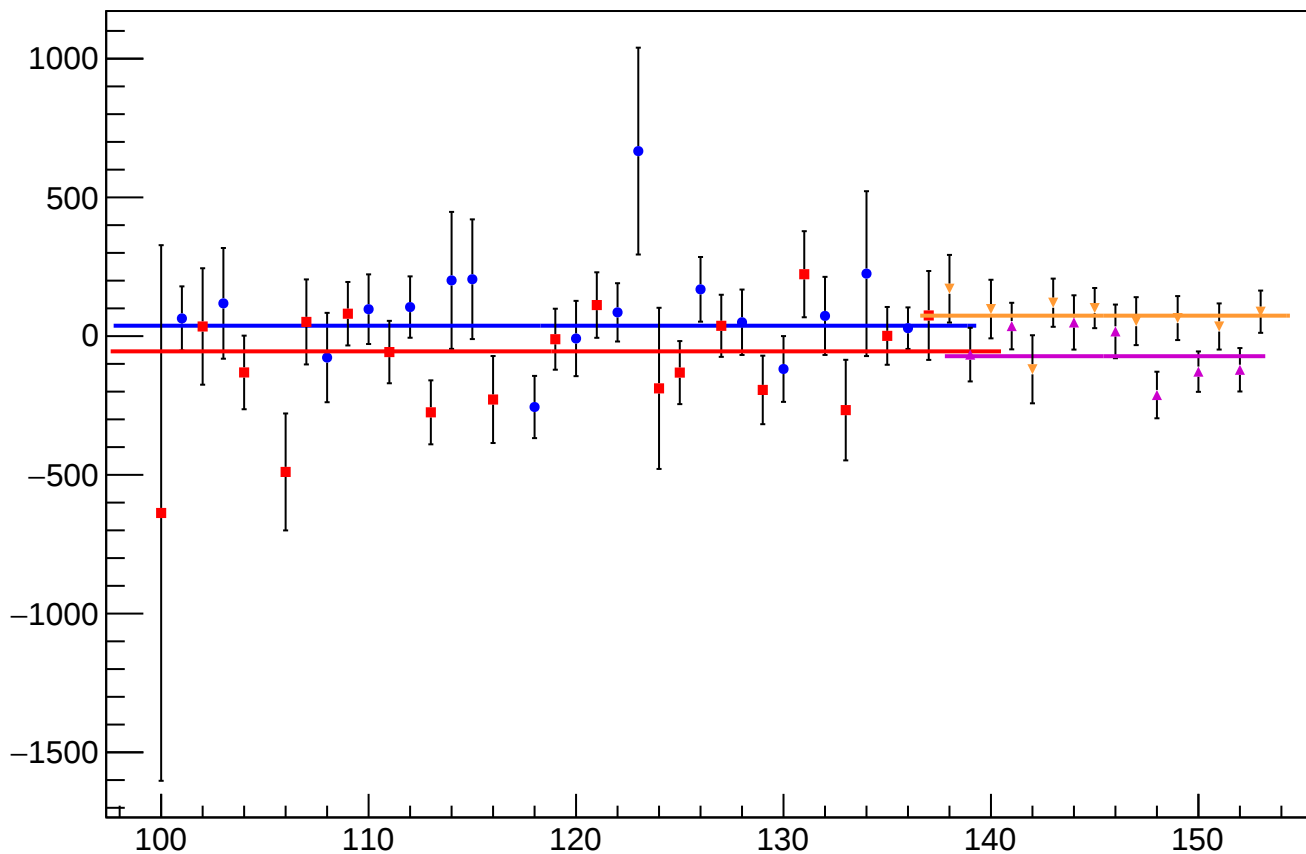
Left In: 189.827 $\pm$ 0.057  $\chi^2$ /NDF: 480025.0/6

+ sign 231.829 $\pm$ 0.048  $\chi^2$ /NDF: 3545204.2/25

All: 233.022 $\pm$ 0.035  $\chi^2$ /NDF: 7509577.5/51

- sign 234.311 $\pm$ 0.050  $\chi^2$ /NDF: 3963108.2/25

# dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 37.535 $\pm$ 31.460  $\chi^2$ /NDF: 15.8/16

Left Out: 73.775 $\pm$ 29.398  $\chi^2$ /NDF: 3.9/8

Right Out: -54.894 $\pm$ 31.473  $\chi^2$ /NDF: 22.2/18

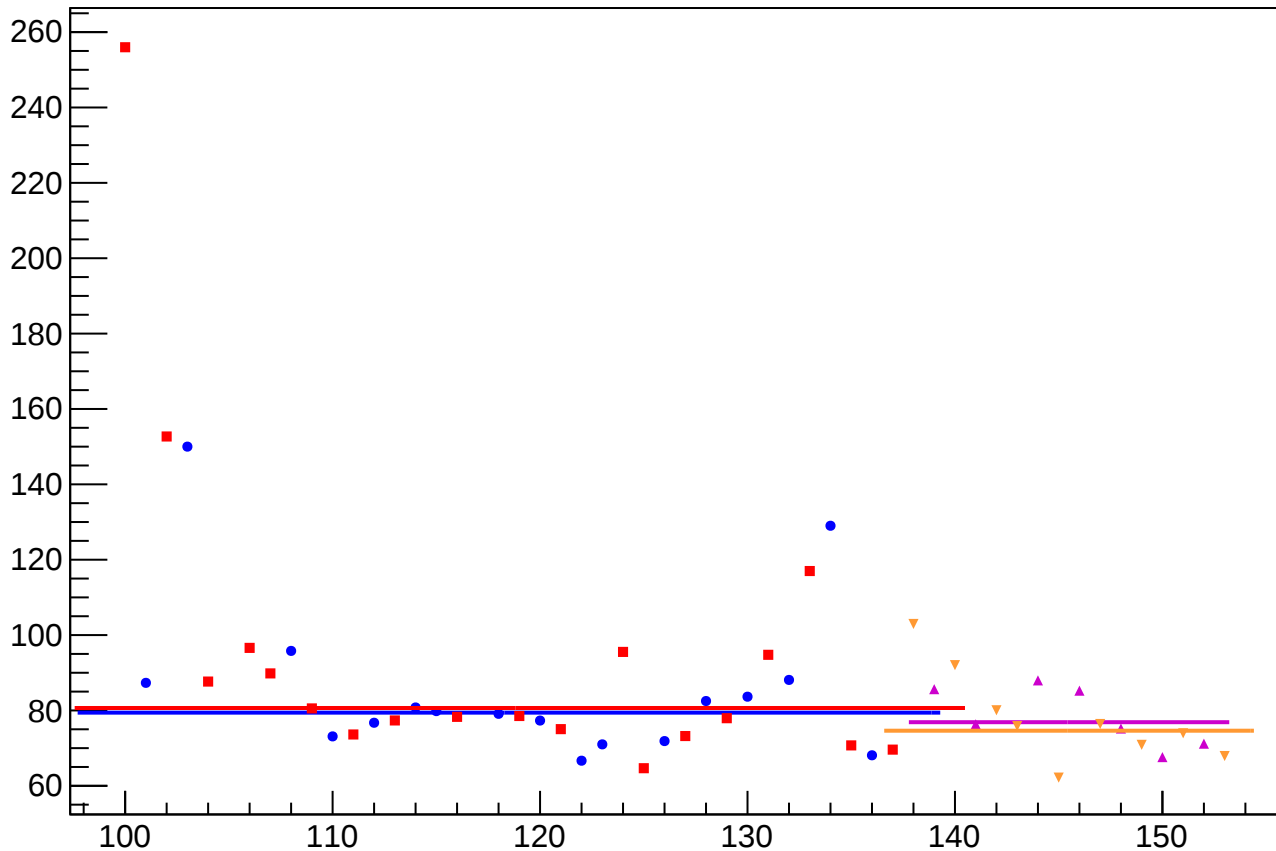
Left In: -72.347 $\pm$ 32.368  $\chi^2$ /NDF: 7.8/6

+ sign 56.882 $\pm$ 21.480  $\chi^2$ /NDF: 20.5/25

All: -0.287 $\pm$ 15.558  $\chi^2$ /NDF: 65.5/51

- sign -63.376 $\pm$ 22.565  $\chi^2$ /NDF: 30.1/25

# dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 79.421+/-0.022  $\chi^2/\text{NDF}$ : 439047.1/16

Left Out: 74.625+/-0.021  $\chi^2/\text{NDF}$ : 246750.2/8

Right Out: 80.652+/-0.022  $\chi^2/\text{NDF}$ : 520439.8/18

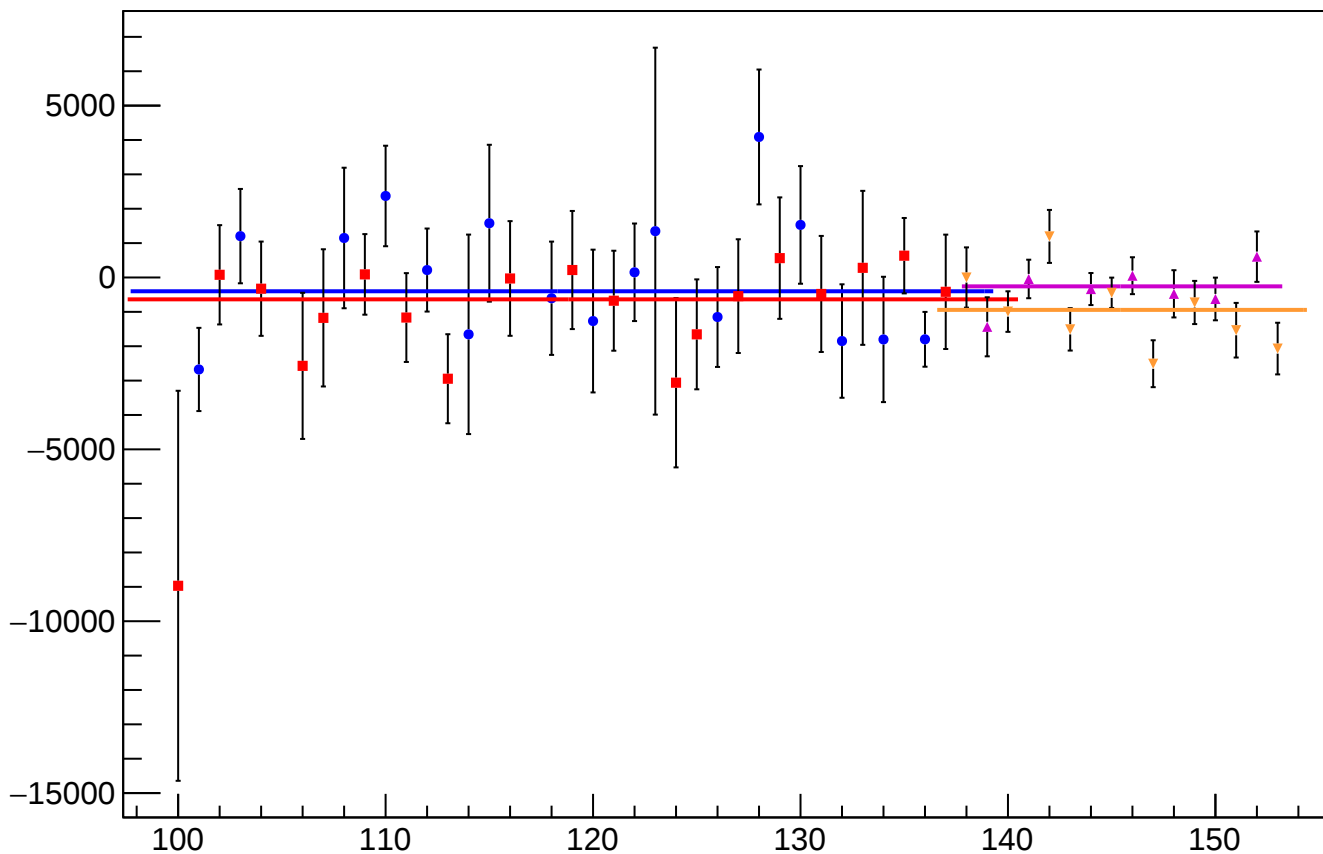
Left In: 76.883+/-0.023  $\chi^2/\text{NDF}$ : 101007.9/6

+ sign 76.861+/-0.015  $\chi^2/\text{NDF}$ : 710610.0/25

All: 77.793+/-0.011  $\chi^2/\text{NDF}$ : 1353906.8/51

- sign 78.821+/-0.016  $\chi^2/\text{NDF}$ : 635384.7/25

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: -401.047+/-368.480  $\chi^2/\text{NDF}$ : 21.9/16

Left Out: -942.693+/-214.914  $\chi^2/\text{NDF}$ : 19.1/8

Right Out: -636.133+/-362.923  $\chi^2/\text{NDF}$ : 10.8/18

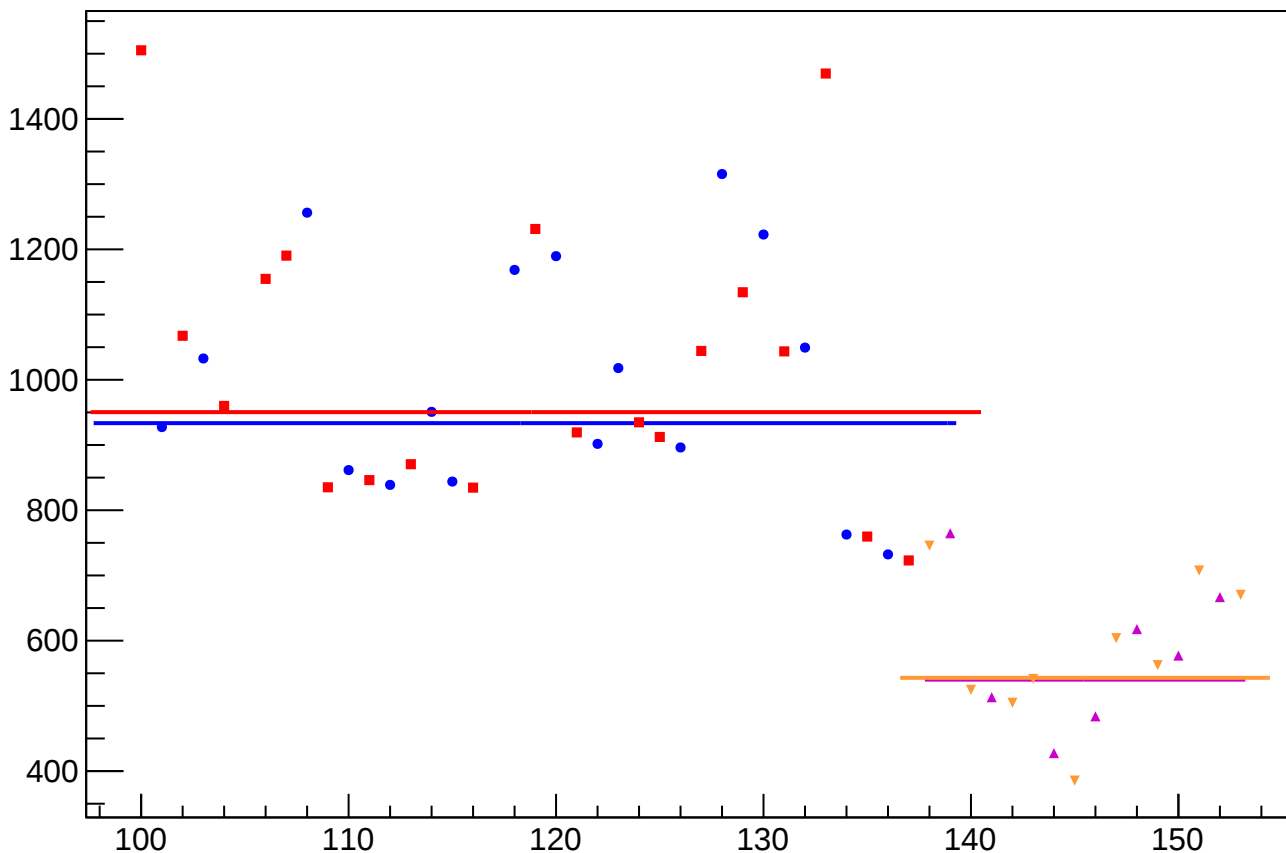
Left In: -258.128+/-228.315  $\chi^2/\text{NDF}$ : 4.2/6

+ sign -805.208+/-185.645  $\chi^2/\text{NDF}$ : 42.7/25

All: -594.089+/-133.880  $\chi^2/\text{NDF}$ : 61.2/51

- sign -365.310+/-193.254  $\chi^2/\text{NDF}$ : 15.8/25

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In:  $933.530 \pm 0.261$   $\chi^2/\text{NDF}: 442321.9/16$

Left Out:  $543.029 \pm 0.152$   $\chi^2/\text{NDF}: 529616.9/8$

Right Out:  $950.411 \pm 0.257$   $\chi^2/\text{NDF}: 424360.9/18$

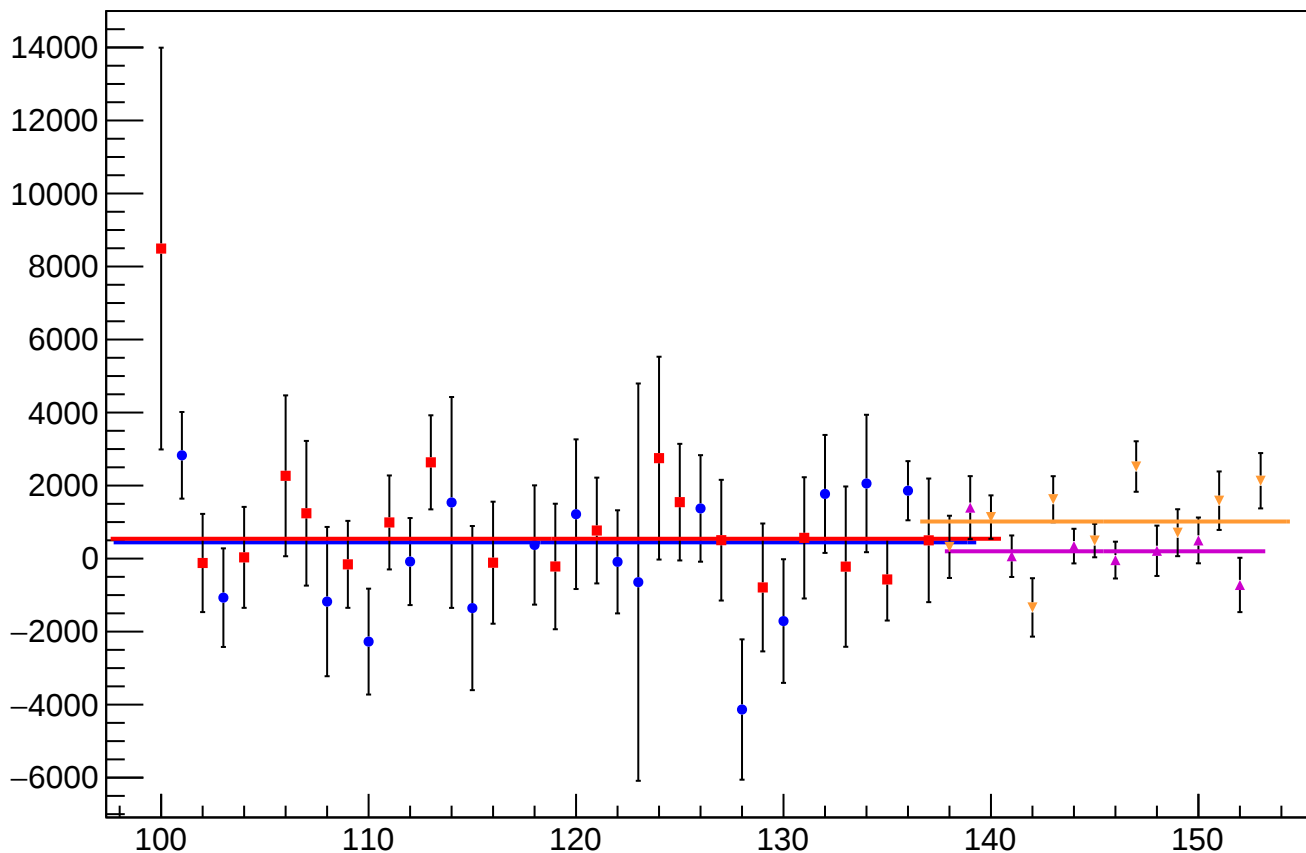
Left In:  $540.232 \pm 0.161$   $\chi^2/\text{NDF}: 372165.2/6$

+ sign  $642.149 \pm 0.131$   $\chi^2/\text{NDF}: 2647983.9/25$

All:  $649.055 \pm 0.095$   $\chi^2/\text{NDF}: 5280633.5/51$

- sign  $656.537 \pm 0.137$   $\chi^2/\text{NDF}: 2626884.1/25$

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 444.669 $\pm$ 367.099  $\chi^2$ /NDF: 22.9/16

Left Out: 1015.547 $\pm$ 219.034  $\chi^2$ /NDF:19.2/8

Right Out: 543.026 $\pm$ 363.317  $\chi^2$ /NDF: 9.4/18

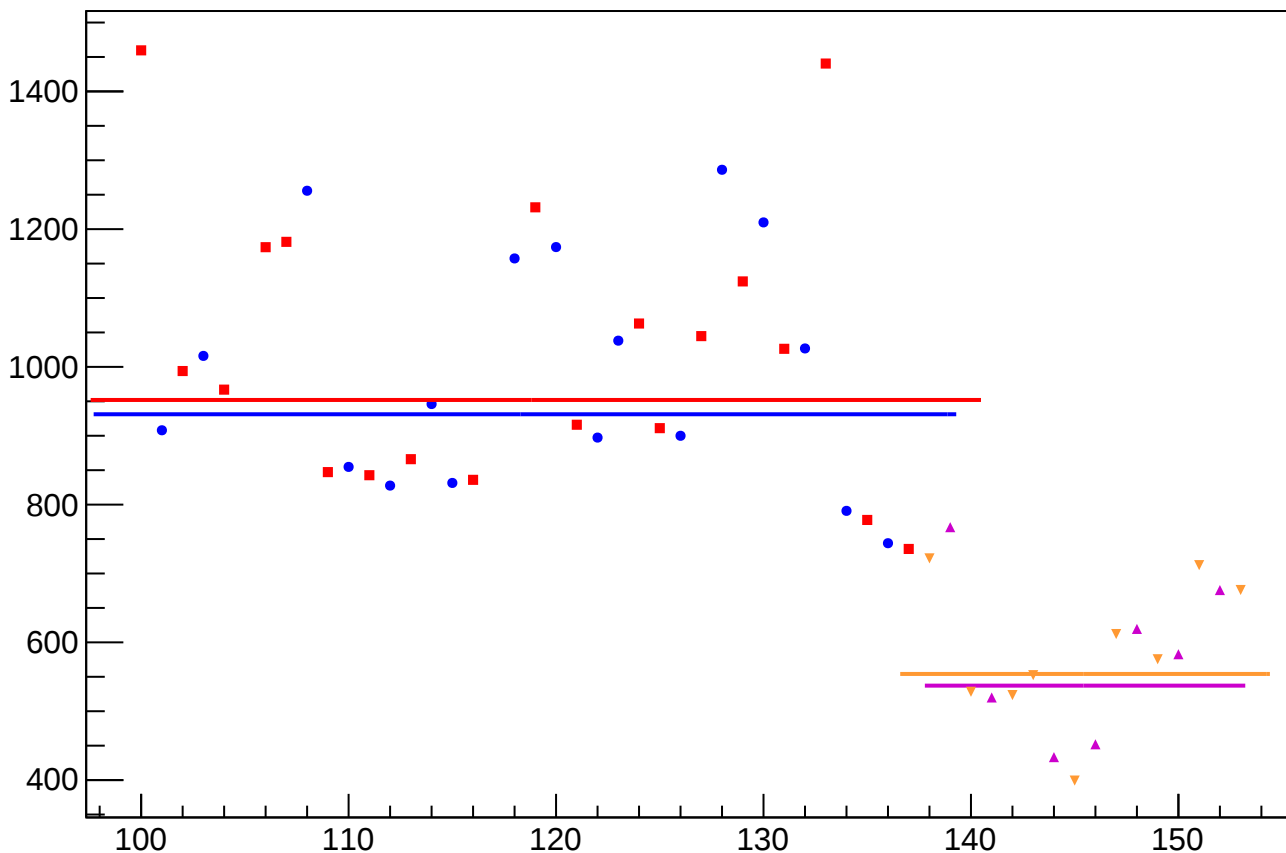
Left In: 199.713 $\pm$ 227.775  $\chi^2$ /NDF:4.1/6

+ sign 865.669 $\pm$ 188.096  $\chi^2$ /NDF: 43.9/25

All: 588.422 $\pm$ 134.699  $\chi^2$ /NDF: 62.5/51

- sign 296.577 $\pm$ 192.985  $\chi^2$ /NDF: 14.1/25

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 554.127 $\pm$ 0.155  $\chi^2$ /NDF: 458217.3/8

Right Out: 951.963 $\pm$ 0.257  $\chi^2$ /NDF: 382648.6/18

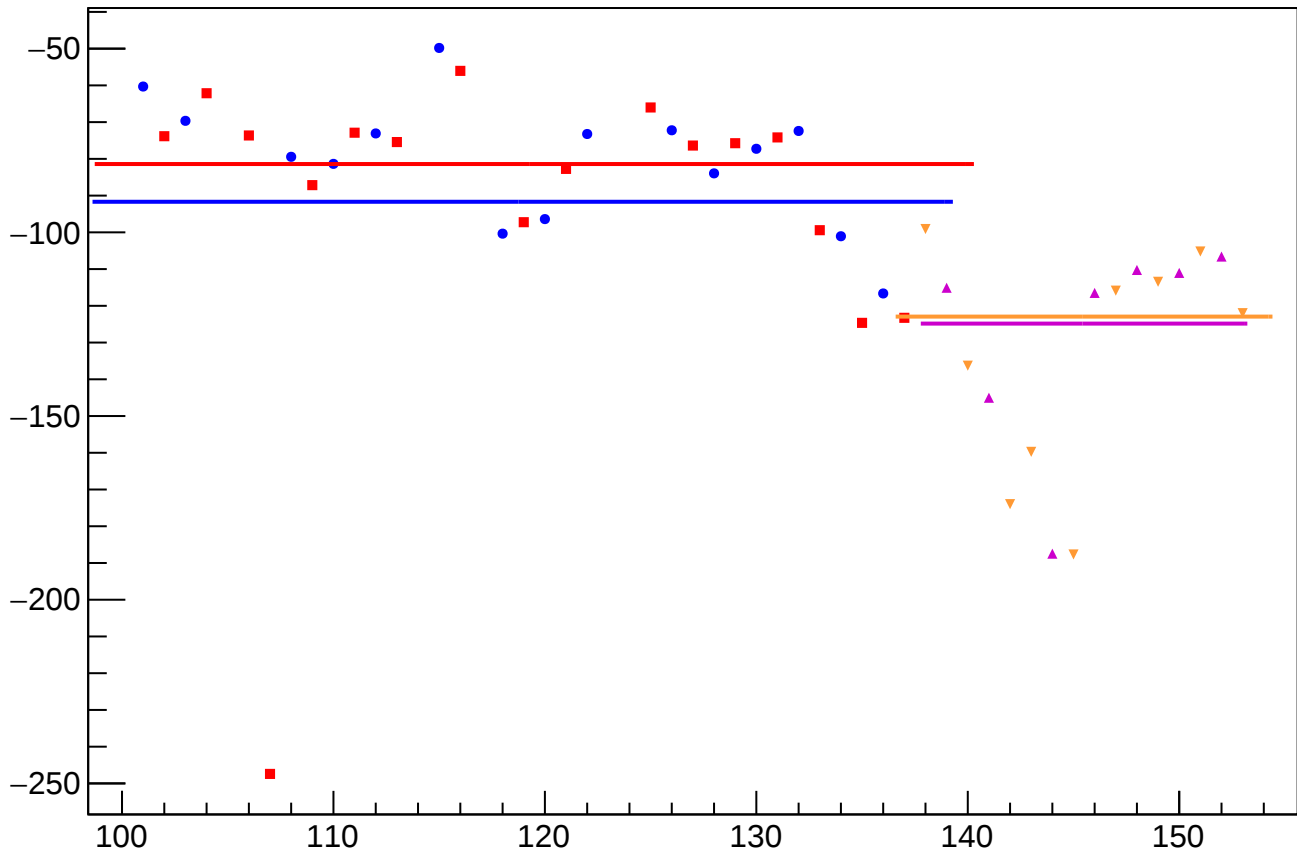
Left In: 537.157 $\pm$ 0.161  $\chi^2$ /NDF: 406062.2/6

+ sign 653.124 $\pm$ 0.133  $\chi^2$ /NDF: 2414637.7/25

All: 653.645 $\pm$ 0.095  $\chi^2$ /NDF: 5074858.0/51

- sign 654.193 $\pm$ 0.136  $\chi^2$ /NDF: 2660188.8/25

# dit\_usl\_4aX\_slope vs Slug



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-122.935 \pm 0.108$   $\chi^2/\text{NDF}$ : 21196.9/8

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

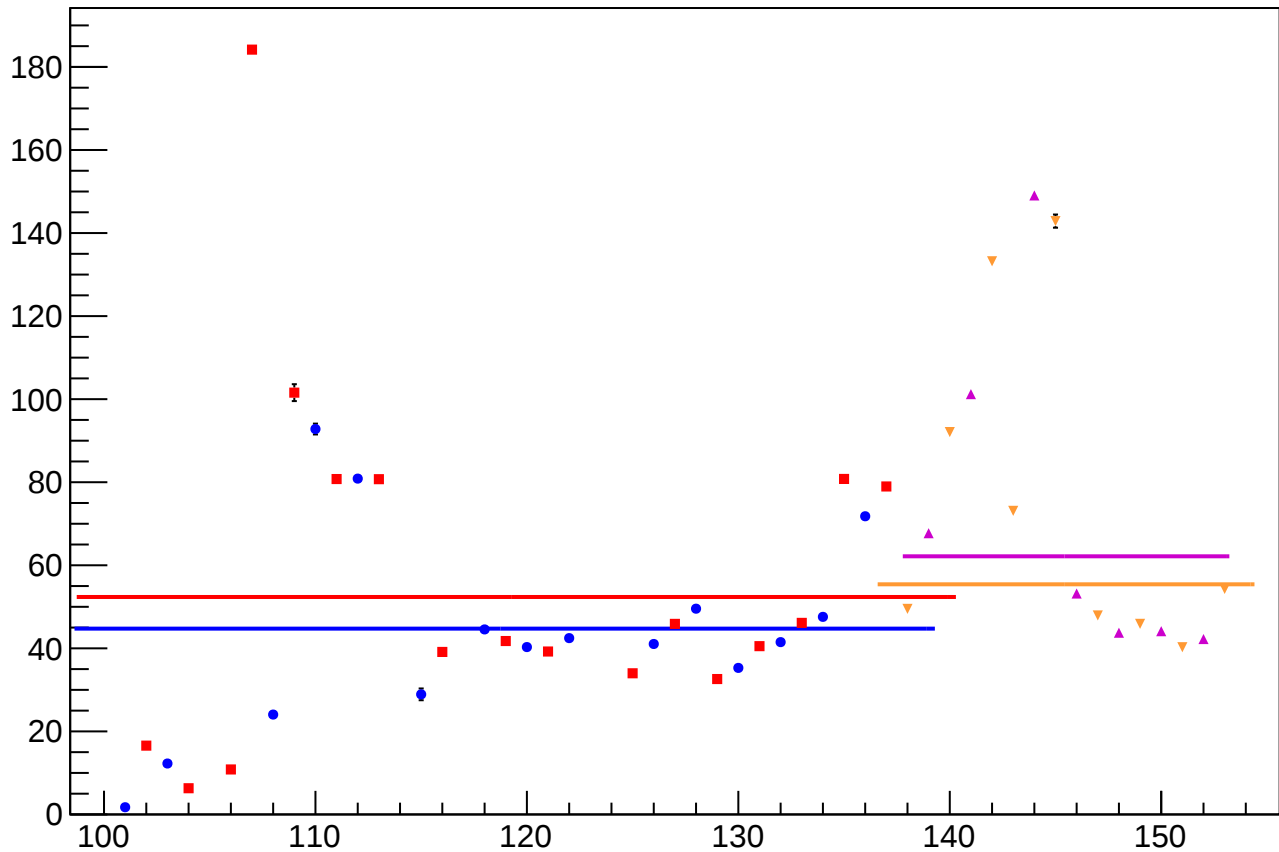
Left In:  $-124.841 \pm 0.099$   $\chi^2/\text{NDF}$ : 40607.4/6

+ sign  $-101.003 \pm 0.059$   $\chi^2/\text{NDF}$ : 145066.6/23

All:  $-101.823 \pm 0.045$   $\chi^2/\text{NDF}$ : 324501.4/47

- sign  $-102.981 \pm 0.070$   $\chi^2/\text{NDF}$ : 178965.2/23

# dit\_usl\_4eX\_slope vs Slug



Right In: 44.745+/-0.061  $\chi^2/\text{NDF}$ : 84697.9/14

Left Out: 55.419+/-0.089  $\chi^2/\text{NDF}$ : 40690.4/8

Right Out: 52.367+/-0.113  $\chi^2/\text{NDF}$ : 69285.2/16

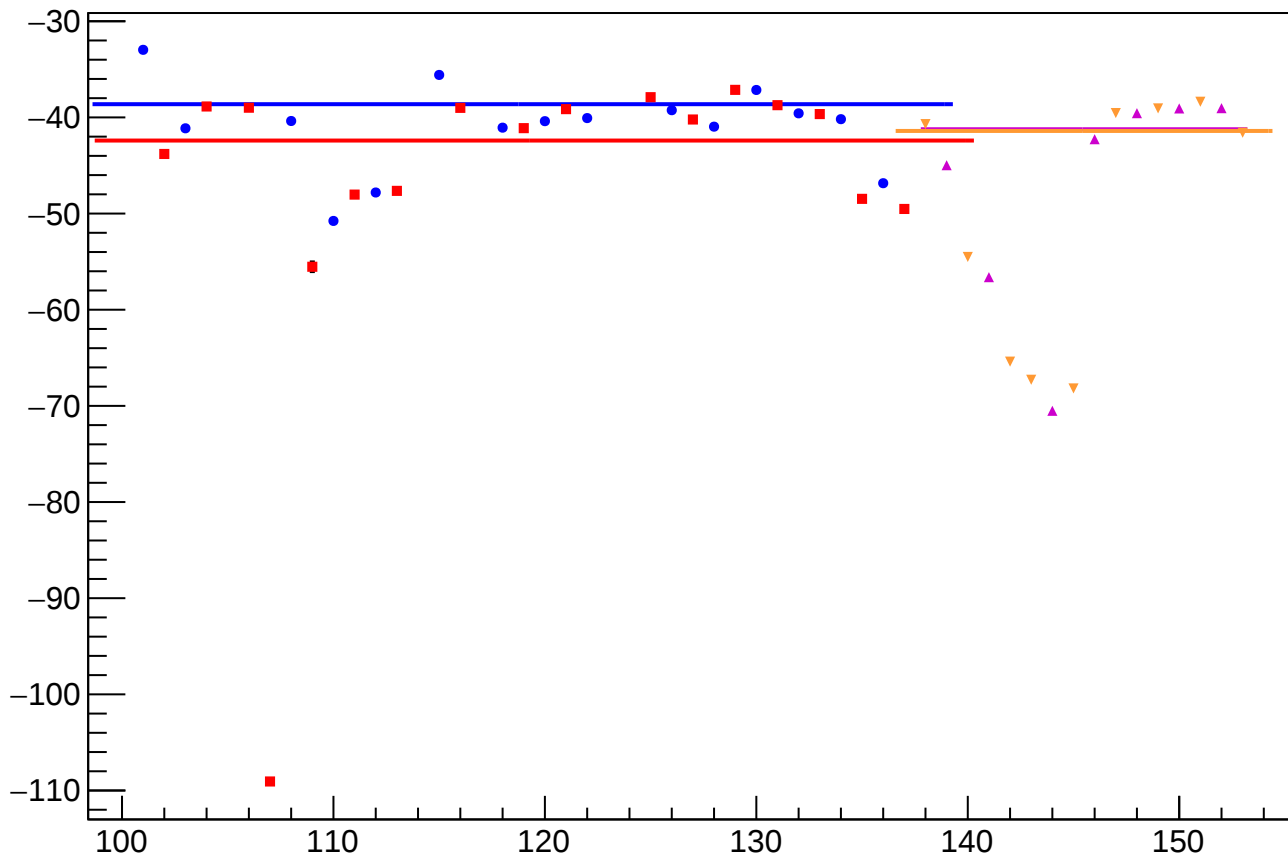
Left In: 62.161+/-0.088  $\chi^2/\text{NDF}$ : 100757.9/6

+ sign 48.127+/-0.050  $\chi^2/\text{NDF}$ : 135229.0/23

All: 51.674+/-0.041  $\chi^2/\text{NDF}$ : 324595.3/47

- sign 58.456+/-0.069  $\chi^2/\text{NDF}$ : 174750.4/23

# dit\_usl\_11X12X\_slope vs Slug



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}$ : 240108.7/14

Left Out:  $-41.408 \pm 0.012$   $\chi^2/\text{NDF}$ : 185173.6/8

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}$ : 269138.5/16

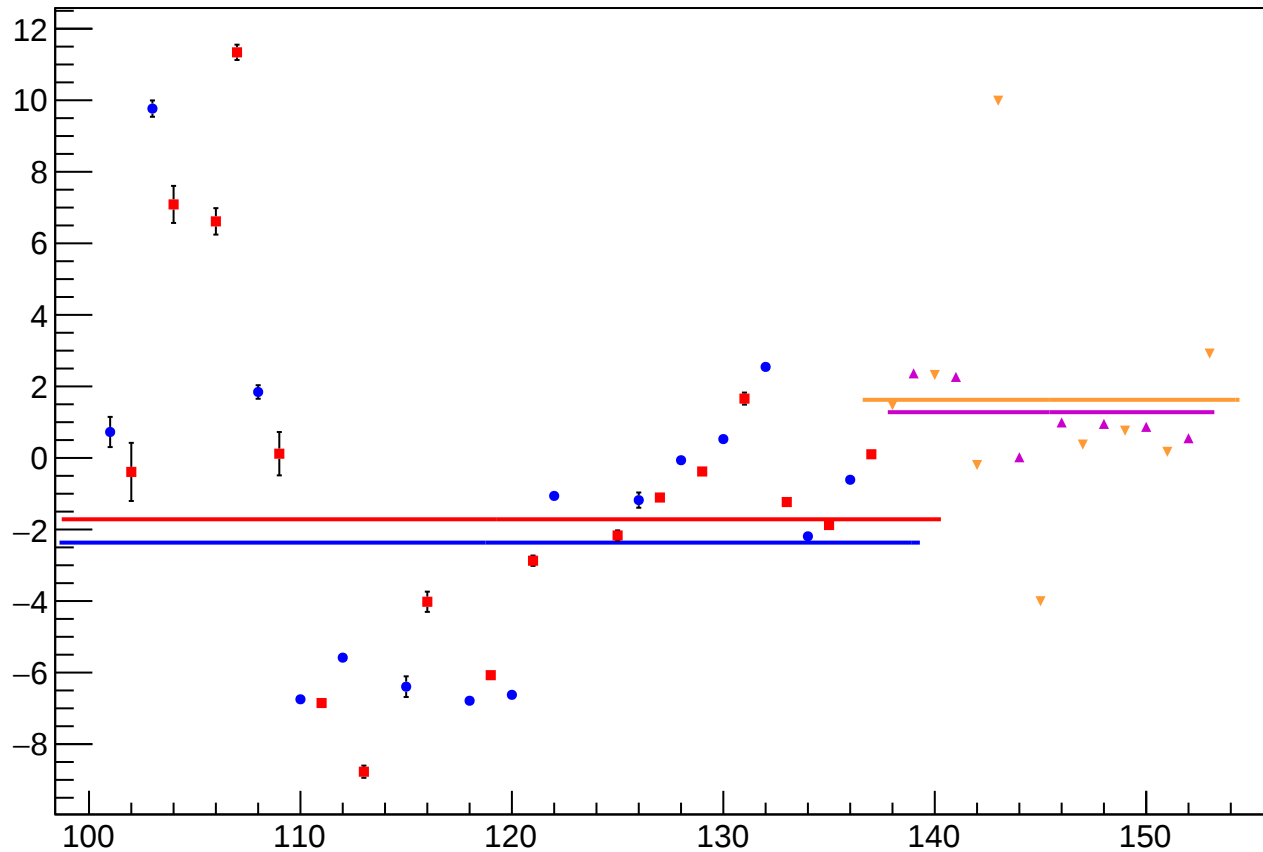
Left In:  $-41.231 \pm 0.015$   $\chi^2/\text{NDF}$ : 141170.2/6

+ sign  $-39.573 \pm 0.007$   $\chi^2/\text{NDF}$ : 463854.8/23

All:  $-40.035 \pm 0.006$   $\chi^2/\text{NDF}$ : 897309.7/47

- sign  $-41.636 \pm 0.012$   $\chi^2/\text{NDF}$ : 412306.3/23

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}$ : 28797.3/14

Left Out:  $1.625 \pm 0.013$   $\chi^2/\text{NDF}$ : 16239.2/8

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}$ : 12719.3/16

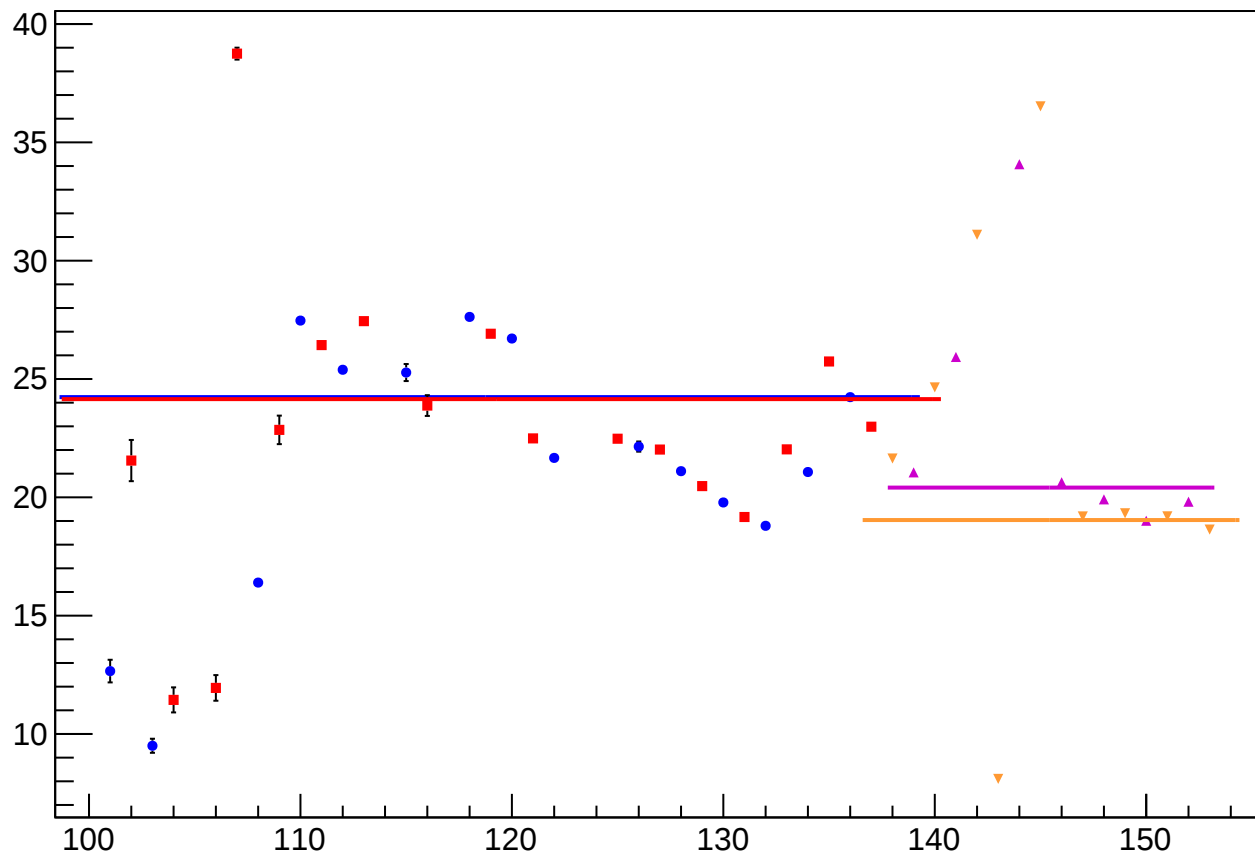
Left In:  $1.280 \pm 0.012$   $\chi^2/\text{NDF}$ : 3202.3/6

+ sign  $-0.212 \pm 0.010$   $\chi^2/\text{NDF}$ : 88470.6/23

All:  $0.232 \pm 0.007$   $\chi^2/\text{NDF}$ : 119647.2/47

- sign  $0.800 \pm 0.011$   $\chi^2/\text{NDF}$ : 26256.6/23

# dit\_usl\_4eY\_slope vs Slug



Right In:  $24.235 \pm 0.022$   $\chi^2/\text{NDF}$ : 21896.9/14

Left Out:  $19.040 \pm 0.014$   $\chi^2/\text{NDF}$ : 38628.0/8

Right Out:  $24.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 13222.6/16

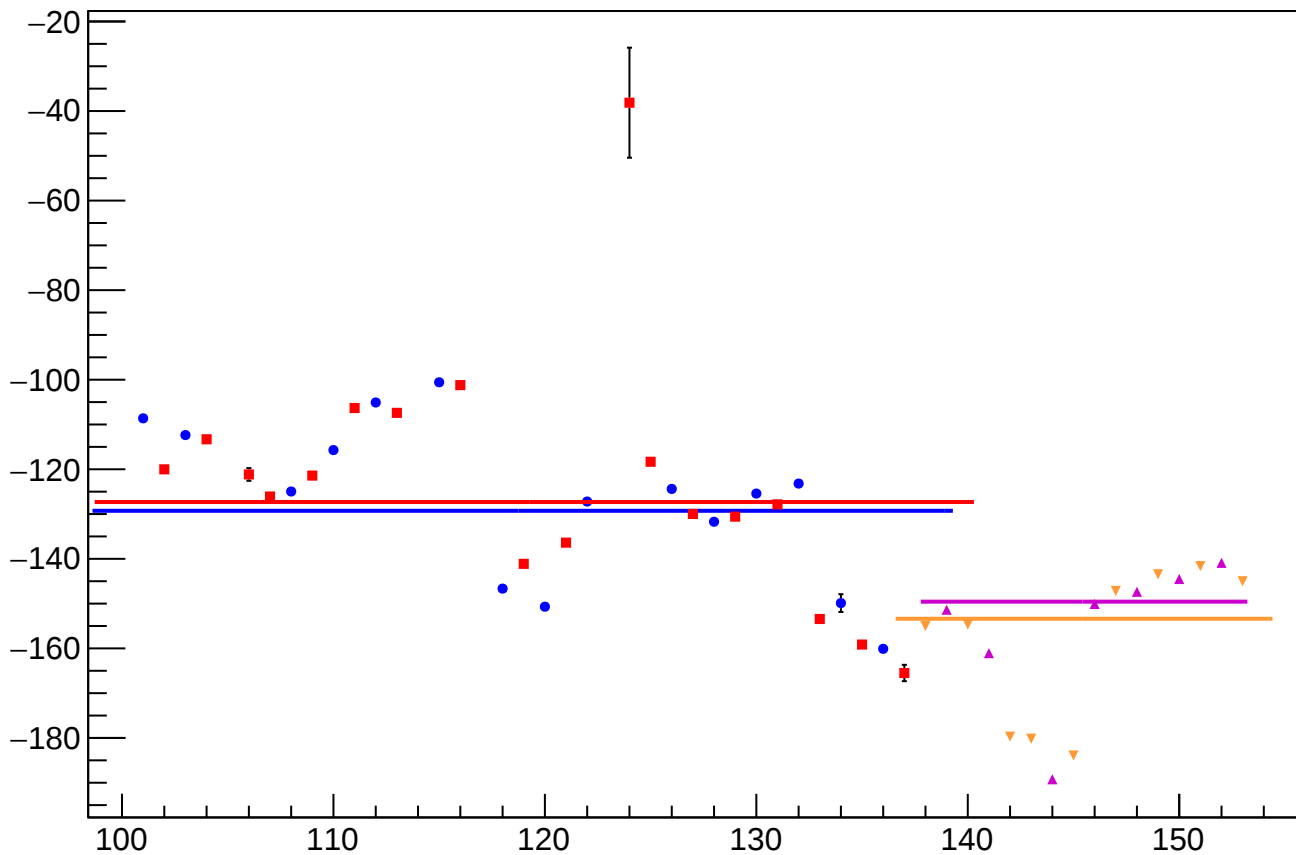
Left In:  $20.411 \pm 0.015$   $\chi^2/\text{NDF}$ : 32695.8/6

+ sign  $20.551 \pm 0.012$   $\chi^2/\text{NDF}$ : 99991.6/23

All:  $20.955 \pm 0.009$   $\chi^2/\text{NDF}$ : 165626.7/47

- sign  $21.408 \pm 0.013$   $\chi^2/\text{NDF}$ : 63177.9/23

# dit\_usr\_4aX\_slope vs Slug



Right In: -129.272 $\pm$ 0.088  $\chi^2$ /NDF: 35109.7/14

Left Out: -153.380 $\pm$ 0.088  $\chi^2$ /NDF:23699.9/8

Right Out: -127.303 $\pm$ 0.084  $\chi^2$ /NDF: 29597.3/17

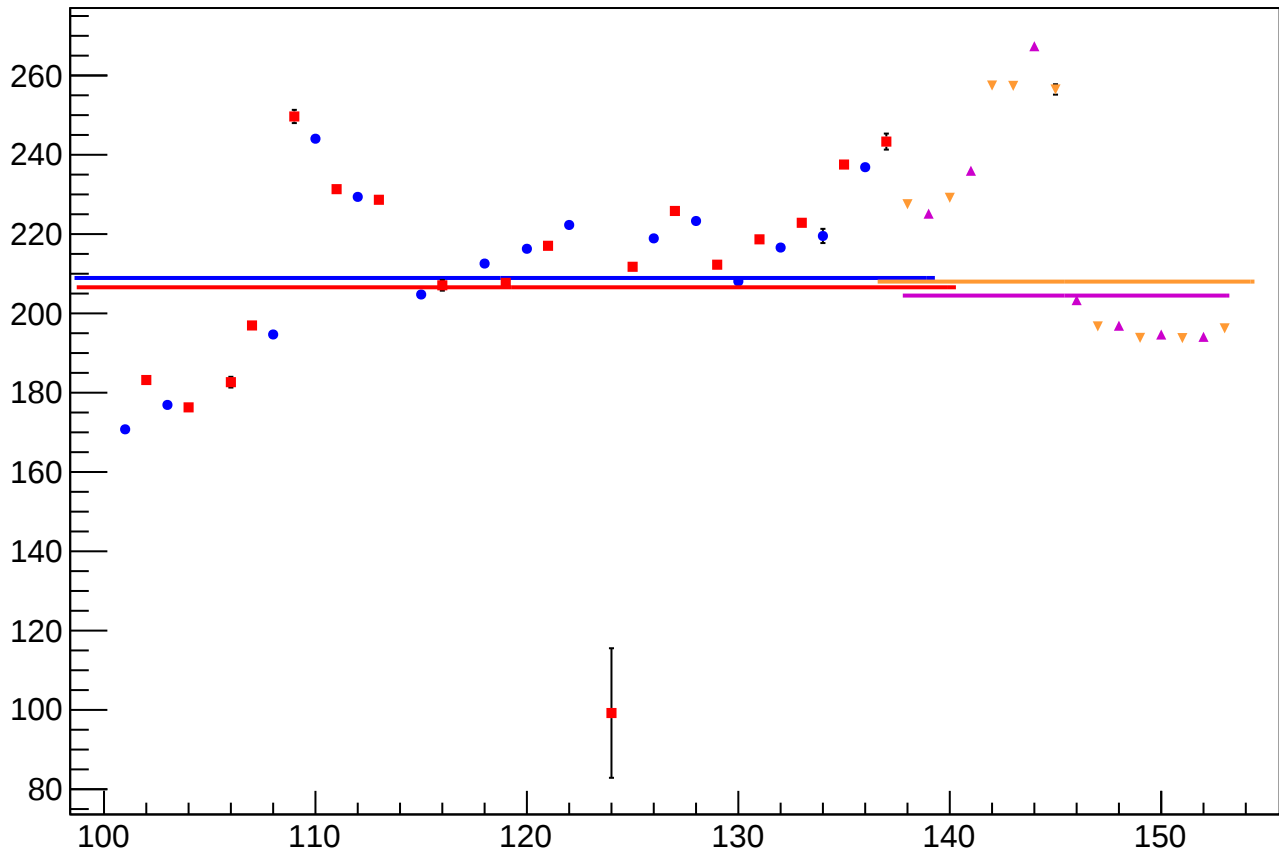
Left In: -149.565 $\pm$ 0.074  $\chi^2$ /NDF:19976.2/6

+ sign -141.305 $\pm$ 0.062  $\chi^2$ /NDF: 96461.5/23

All: -140.491 $\pm$ 0.041  $\chi^2$ /NDF: 185590.6/48

- sign -139.836 $\pm$ 0.056  $\chi^2$ /NDF: 88819.3/24

# dit\_usr\_4eX\_slope vs Slug



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14

Left Out: 208.017 $\pm$ 0.074  $\chi^2$ /NDF: 91845.0/8

Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17

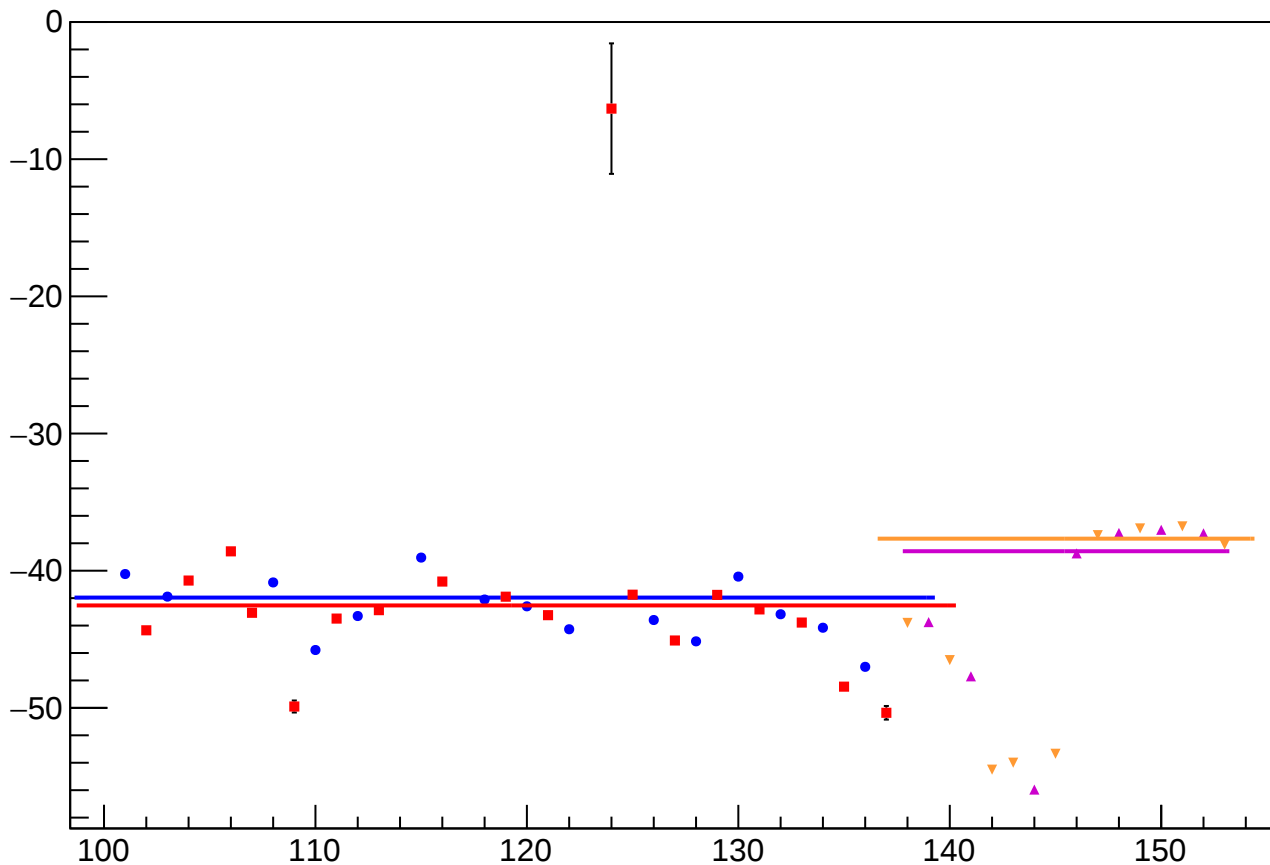
Left In: 204.493 $\pm$ 0.066  $\chi^2$ /NDF: 70171.0/6

+ sign 208.388 $\pm$ 0.057  $\chi^2$ /NDF: 136592.6/23

All: 206.700 $\pm$ 0.038  $\chi^2$ /NDF: 256979.6/48

- sign 205.299 $\pm$ 0.052  $\chi^2$ /NDF: 118768.5/24

# dit\_usr\_11X12X\_slope vs Slug



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.664 \pm 0.006$   $\chi^2/\text{NDF}$ : 213752.4/8

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

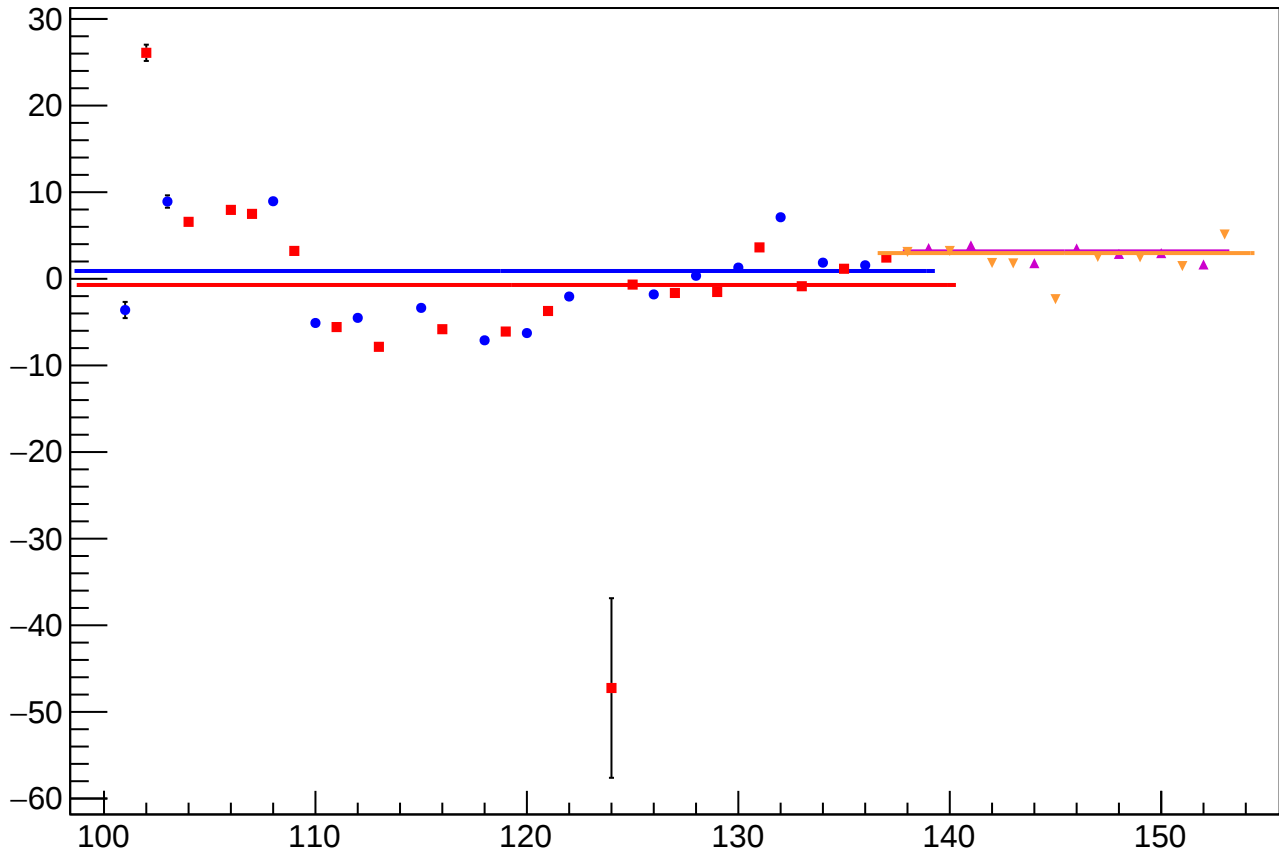
Left In:  $-38.580 \pm 0.009$   $\chi^2/\text{NDF}$ : 120860.0/6

+ sign  $-38.191 \pm 0.005$   $\chi^2/\text{NDF}$ : 304450.6/23

All:  $-38.501 \pm 0.005$   $\chi^2/\text{NDF}$ : 472827.9/48

- sign  $-39.244 \pm 0.008$   $\chi^2/\text{NDF}$ : 157460.5/24

# dit\_usr\_4aY\_slope vs Slug



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 21140.4/14

Left Out:  $2.970 \pm 0.013$   $\chi^2/\text{NDF}$ : 13675.9/8

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}$ : 30723.8/17

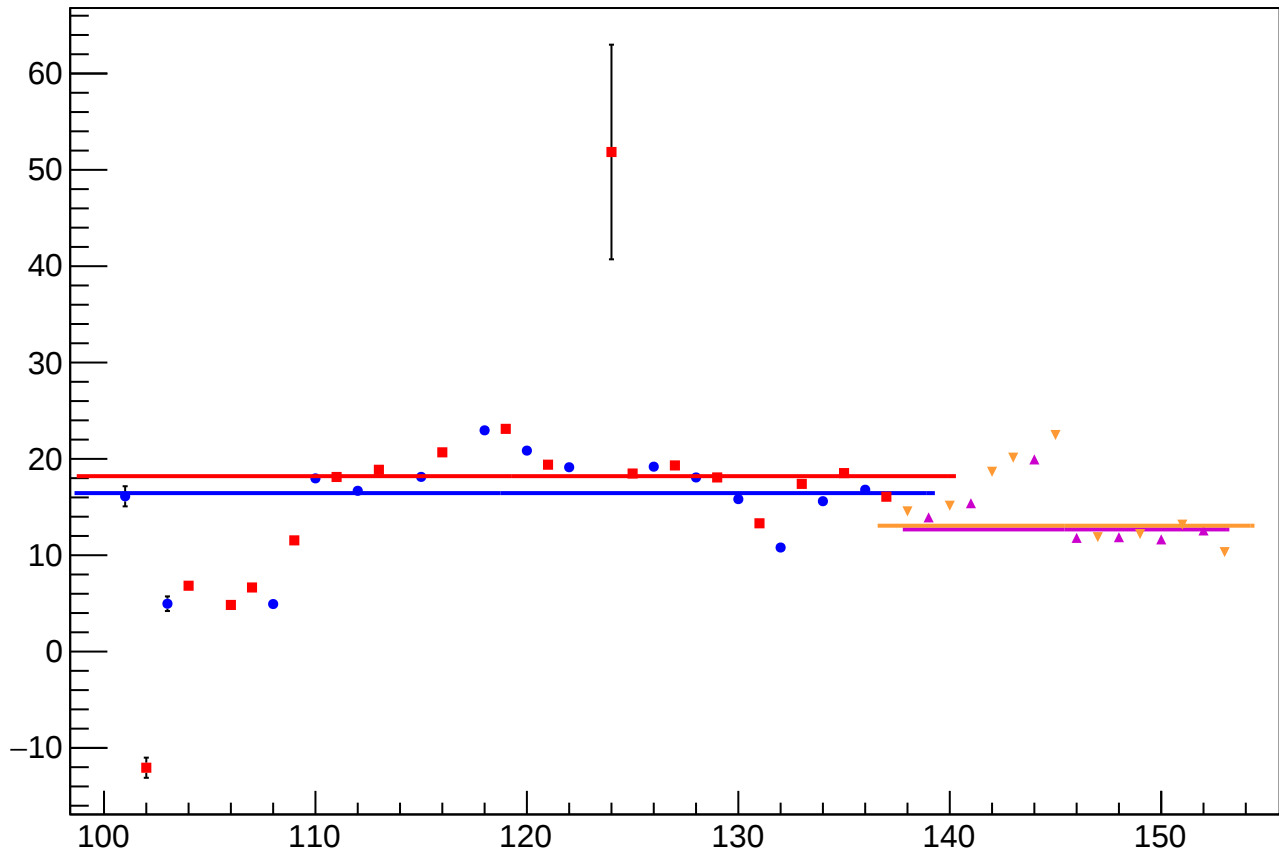
Left In:  $3.168 \pm 0.013$   $\chi^2/\text{NDF}$ : 1984.2/6

+ sign  $2.378 \pm 0.011$   $\chi^2/\text{NDF}$ : 42400.4/23

All:  $2.331 \pm 0.008$   $\chi^2/\text{NDF}$ : 94776.1/48

- sign  $2.277 \pm 0.012$   $\chi^2/\text{NDF}$ : 52335.2/24

# dit\_usr\_4eY\_slope vs Slug



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 13.065 $\pm$ 0.013  $\chi^2$ /NDF: 47252.6/8

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

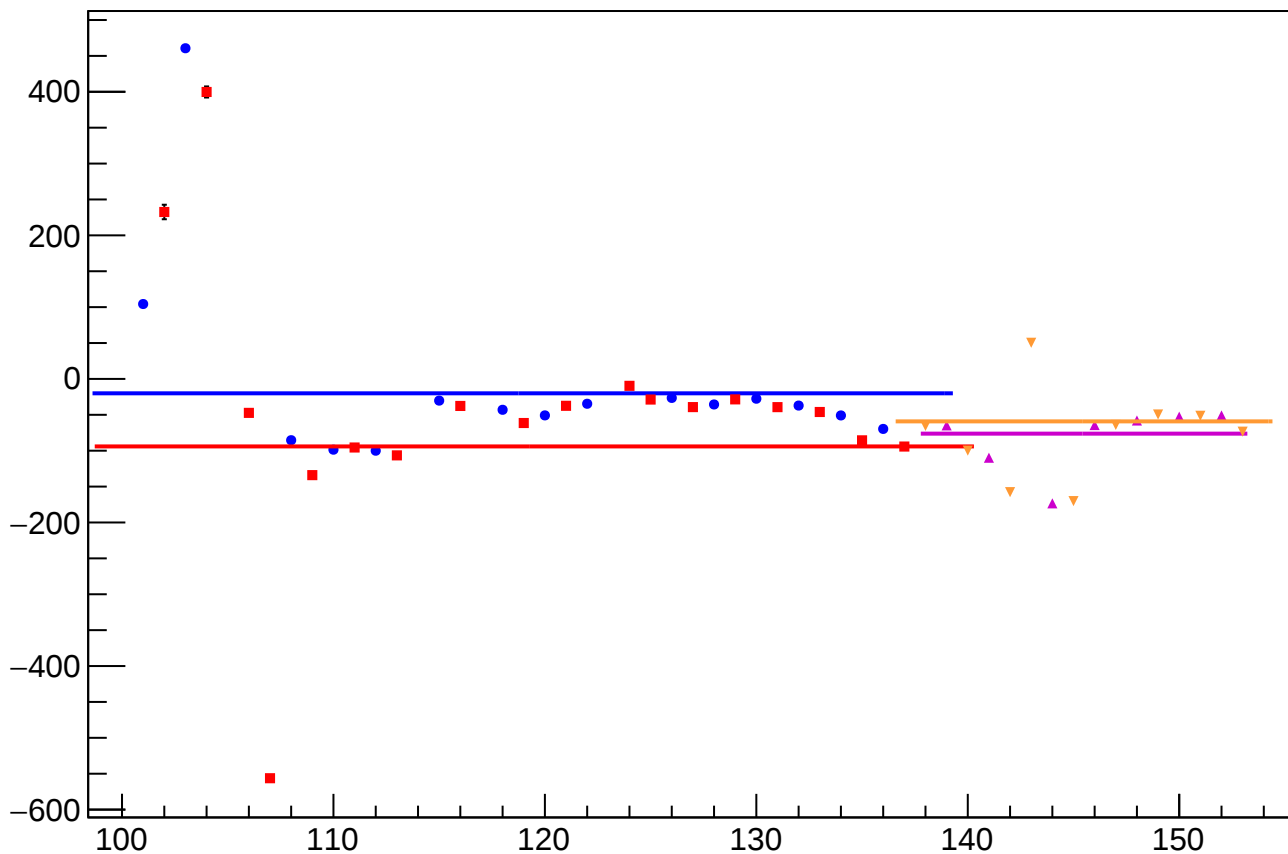
Left In: 12.677 $\pm$ 0.015  $\chi^2$ /NDF: 13855.3/6

+ sign 13.779 $\pm$ 0.011  $\chi^2$ /NDF: 76588.4/23

All: 14.135 $\pm$ 0.008  $\chi^2$ /NDF: 168753.7/48

- sign 14.532 $\pm$ 0.012  $\chi^2$ /NDF: 90031.2/24

# dit\_atl1\_4aX\_slope vs Slug



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-59.155 \pm 0.172$   $\chi^2/\text{NDF}: 44772.8/8$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

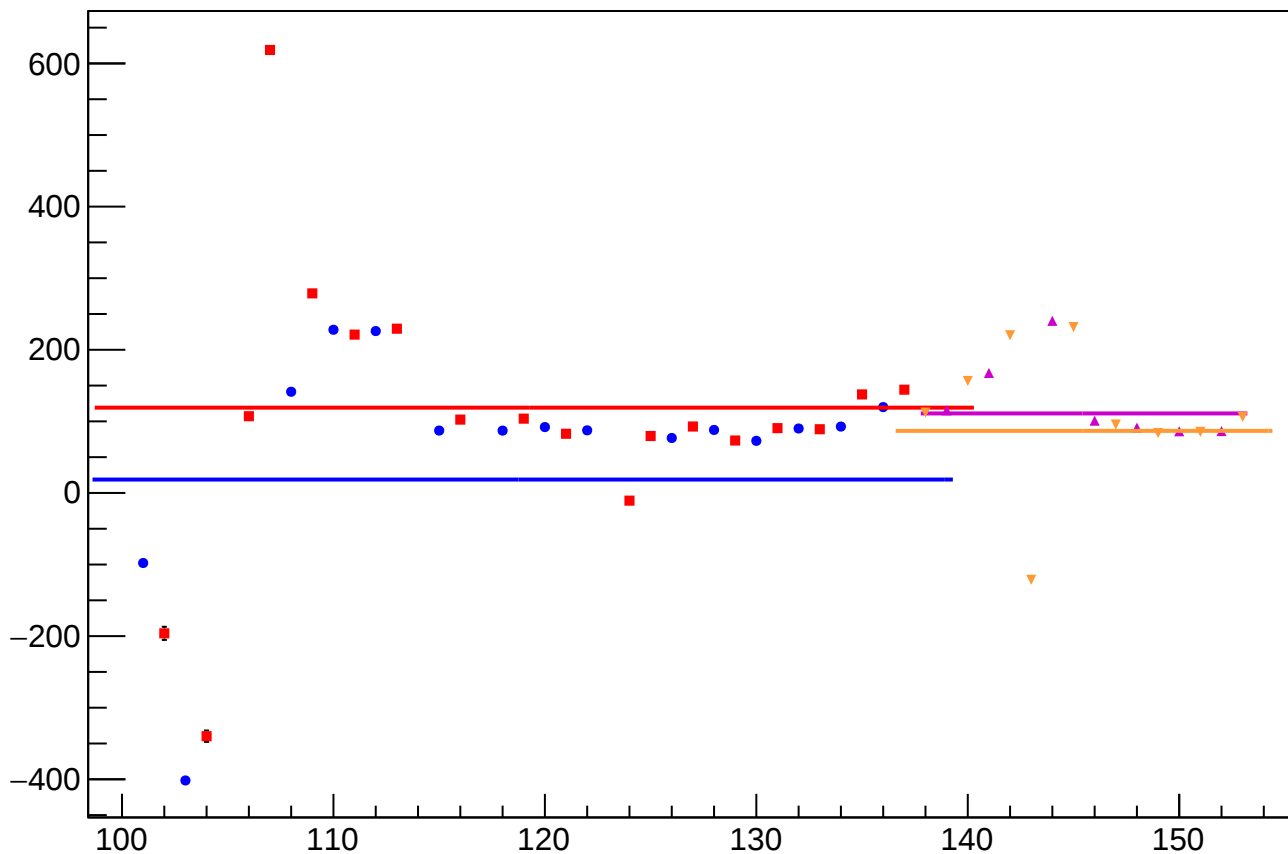
Left In:  $-76.244 \pm 0.201$   $\chi^2/\text{NDF}: 33804.2/6$

+ sign  $-37.369 \pm 0.114$   $\chi^2/\text{NDF}: 515089.2/23$

All:  $-93.323 \pm 0.012$   $\chi^2/\text{NDF}: 886579.1/48$

- sign  $-93.982 \pm 0.012$   $\chi^2/\text{NDF}: 129115.5/24$

# dit\_atl1\_4eX\_slope vs Slug



Right In: 18.731+/-0.152  $\chi^2/\text{NDF}$ : 1101803.8/14

Left Out: 86.724+/-0.153  $\chi^2/\text{NDF}$ : 164678.7/8

Right Out: 119.167+/-0.199  $\chi^2/\text{NDF}$ : 87450.0/17

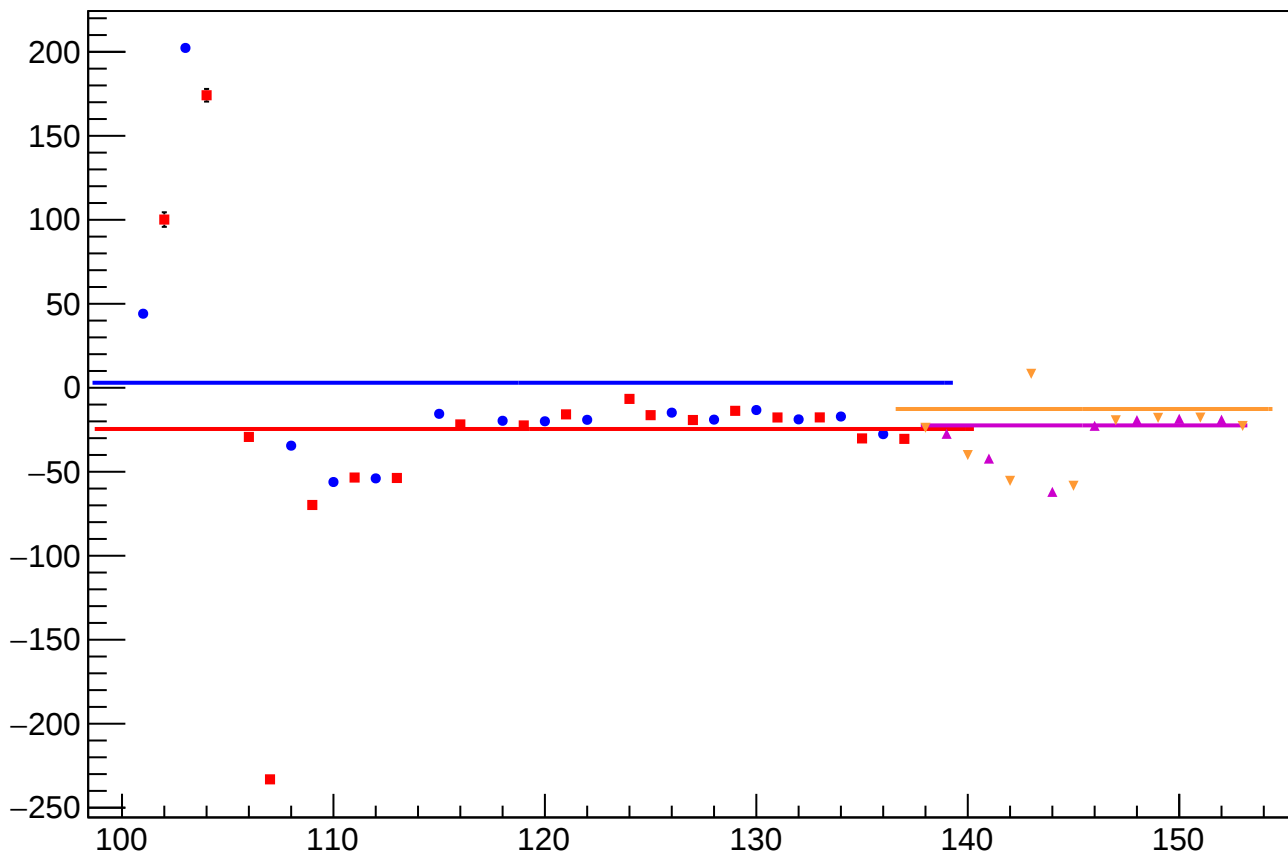
Left In: 111.090+/-0.179  $\chi^2/\text{NDF}$ : 54051.3/6

+ sign 52.494+/-0.108  $\chi^2/\text{NDF}$ : 1365743.3/23

All: 77.168+/-0.084  $\chi^2/\text{NDF}$ : 1639964.9/48

- sign 114.693+/-0.133  $\chi^2/\text{NDF}$ : 142411.6/24

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-12.631 \pm 0.021$   $\chi^2/\text{NDF}: 475569.9/8$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

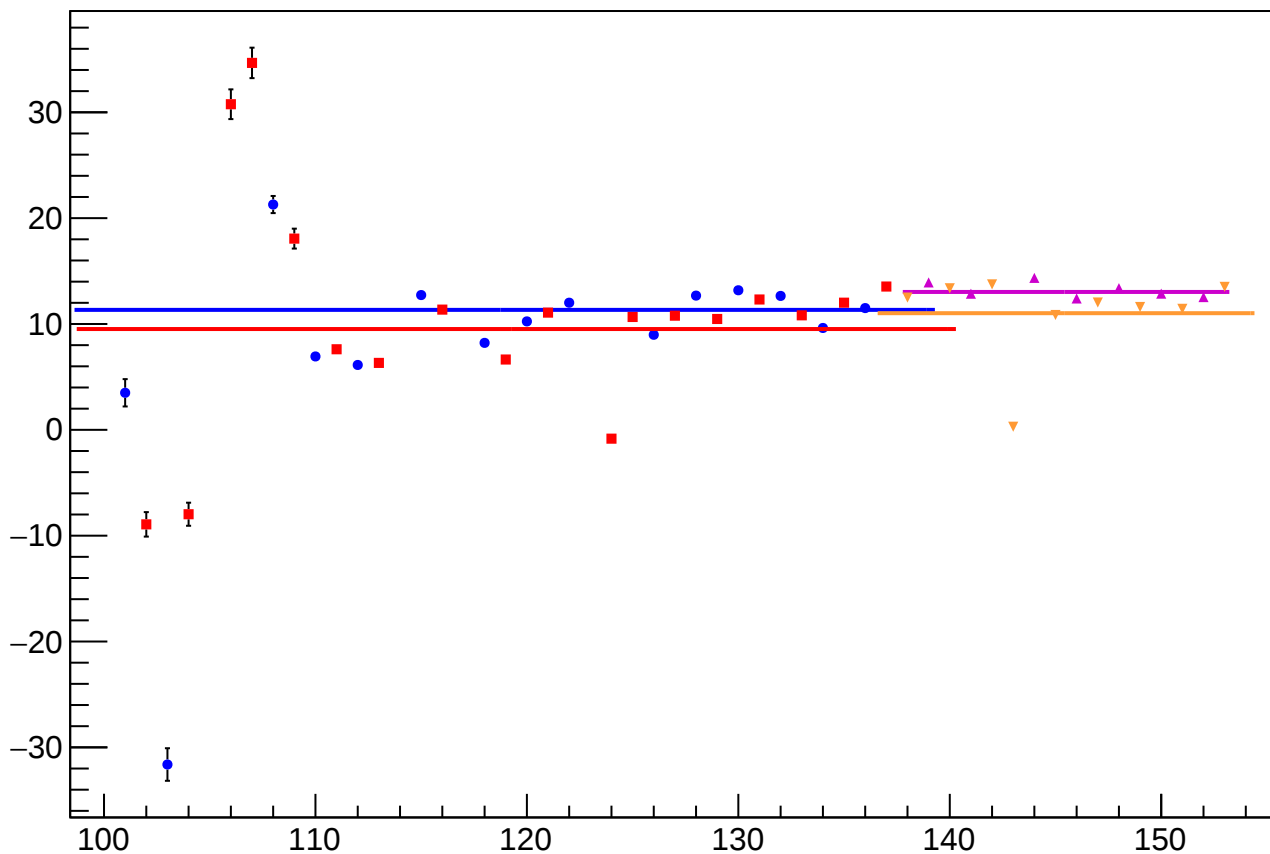
Left In:  $-22.398 \pm 0.026$   $\chi^2/\text{NDF}: 116208.4/6$

+ sign  $-6.884 \pm 0.016$   $\chi^2/\text{NDF}: 4185721.5/23$

All:  $-12.528 \pm 0.013$   $\chi^2/\text{NDF}: 4821162.5/48$

- sign  $-22.949 \pm 0.022$   $\chi^2/\text{NDF}: 294472.9/24$

# dit\_atl1\_4aY\_slope vs Slug



Right In: 11.334 $\pm$ 0.037  $\chi^2$ /NDF: 2406.0/14

Left Out: 11.021 $\pm$ 0.025  $\chi^2$ /NDF: 26888.4/8

Right Out: 9.524 $\pm$ 0.048  $\chi^2$ /NDF: 4066.9/17

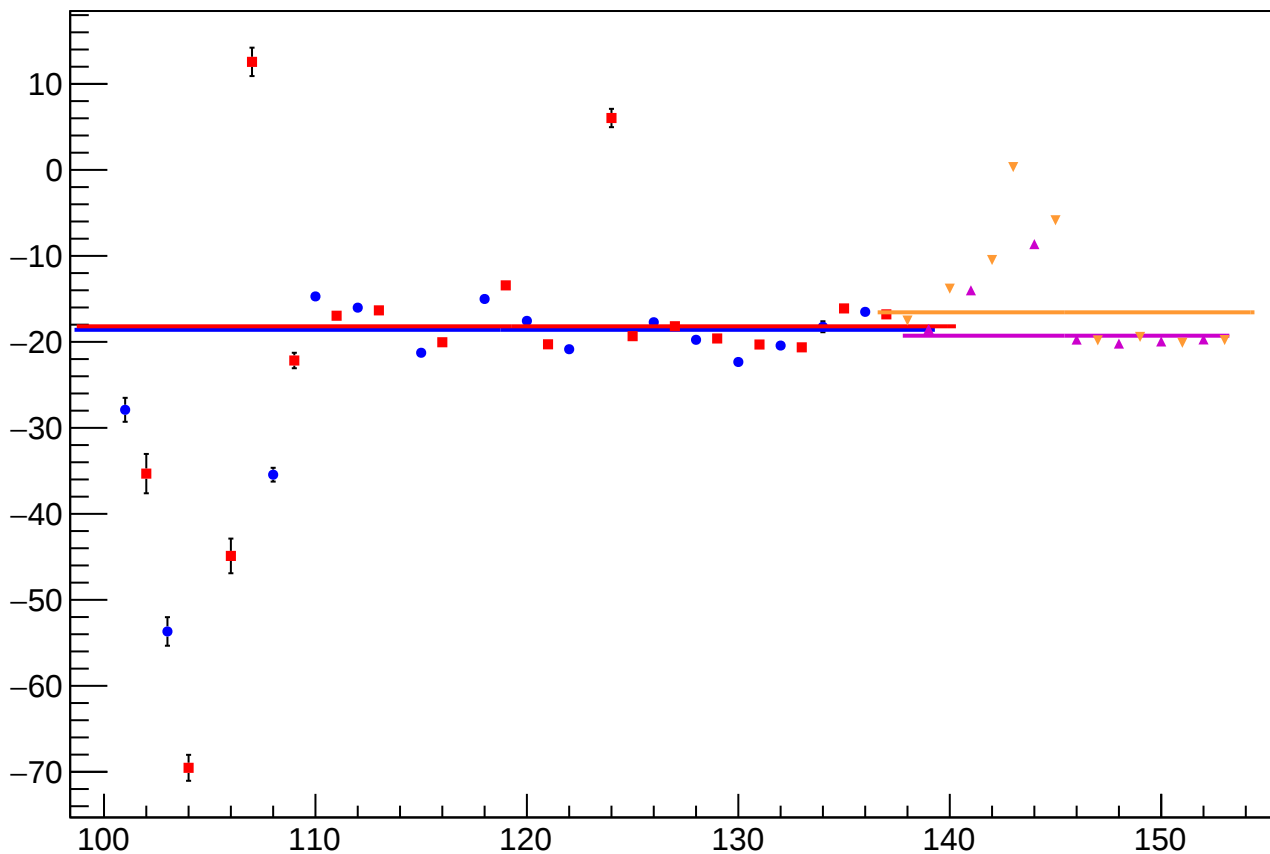
Left In: 13.027 $\pm$ 0.023  $\chi^2$ /NDF: 499.1/6

+ sign 11.119 $\pm$ 0.021  $\chi^2$ /NDF: 29342.8/23

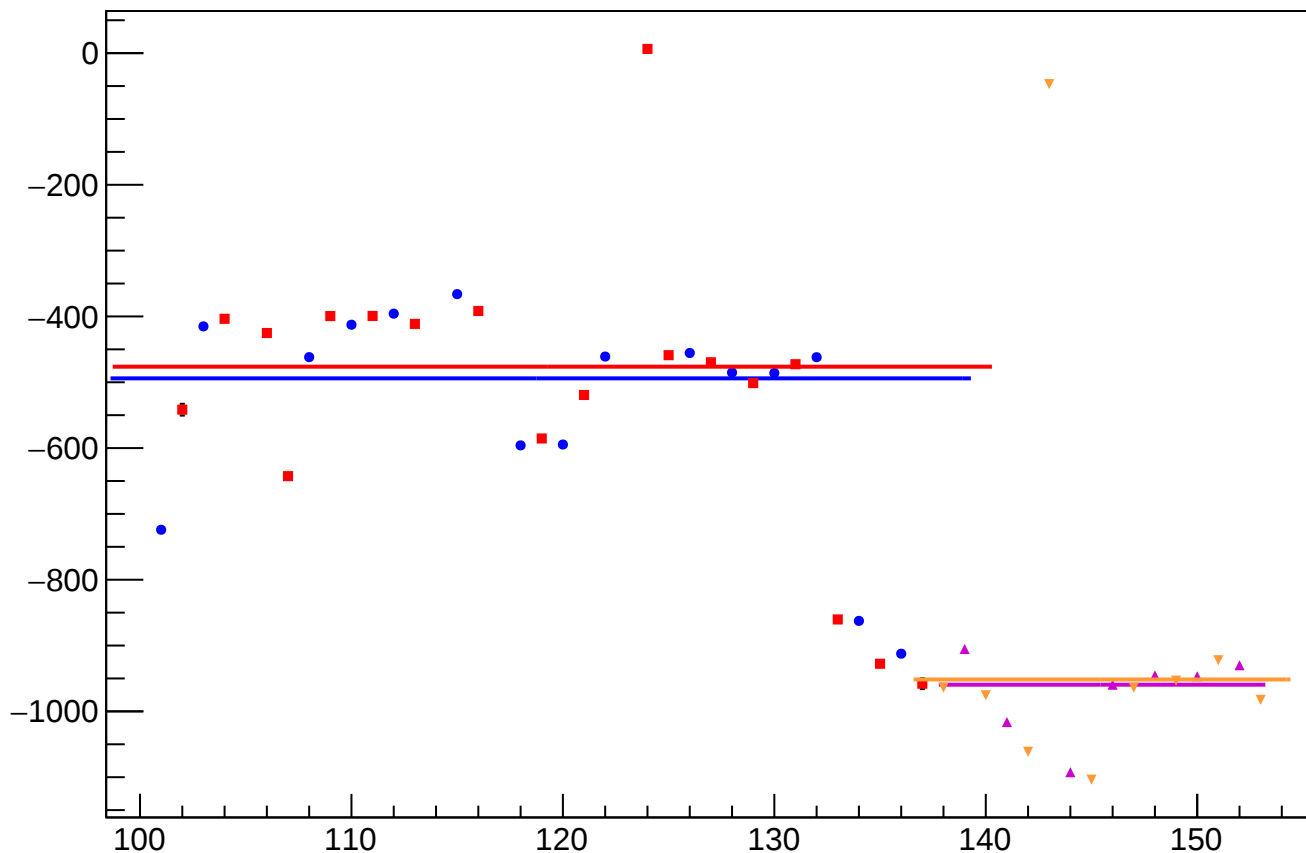
All: 11.748 $\pm$ 0.015  $\chi^2$ /NDF: 40034.7/48

- sign 12.370 $\pm$ 0.021  $\chi^2$ /NDF: 8891.3/24

# dit\_atl1\_4eY\_slope vs Slug



# dit\_atl2\_4aX\_slope vs Slug



Right In:  $-494.081 \pm 0.232$   $\chi^2/\text{NDF}$ : 325996.5/14

Left Out:  $-951.527 \pm 0.257$   $\chi^2/\text{NDF}$ : 307402.8/8

Right Out:  $-476.348 \pm 0.185$   $\chi^2/\text{NDF}$ : 594116.3/17

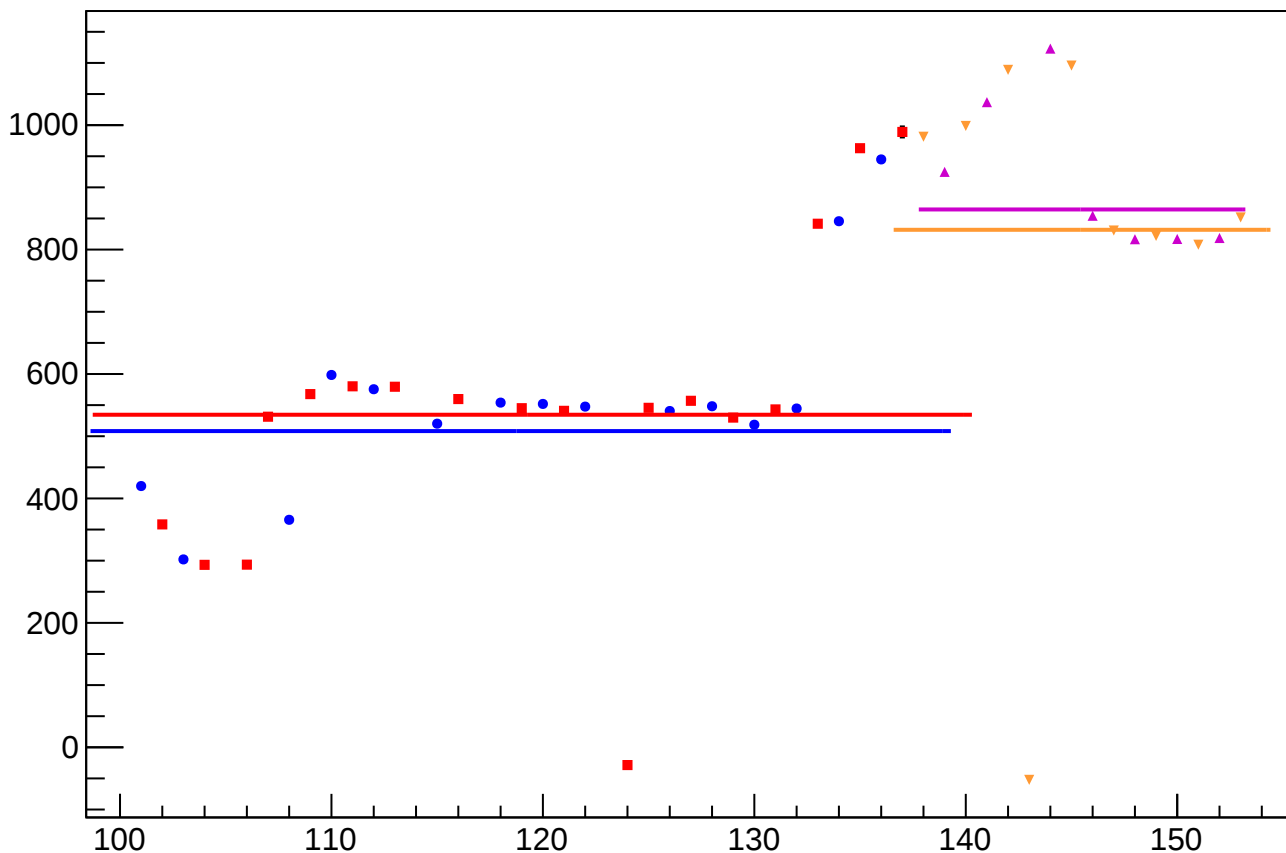
Left In:  $-959.471 \pm 0.338$   $\chi^2/\text{NDF}$ : 16897.5/6

+ sign  $-699.534 \pm 0.172$   $\chi^2/\text{NDF}$ : 2378056.4/23

All:  $-640.398 \pm 0.118$   $\chi^2/\text{NDF}$ : 4783599.4/48

- sign  $-587.864 \pm 0.162$   $\chi^2/\text{NDF}$ : 2183005.6/24

dit\_atl2\_4eX\_slope vs Slug



Right In: 508.267+/-0.222  $\chi^2/\text{NDF}$ : 439489.9/14

Left Out: 831.790+/-0.207  $\chi^2/\text{NDF}$ : 409541.3/8

Right Out: 534.536+/-0.217  $\chi^2/\text{NDF}$ : 368263.1/17

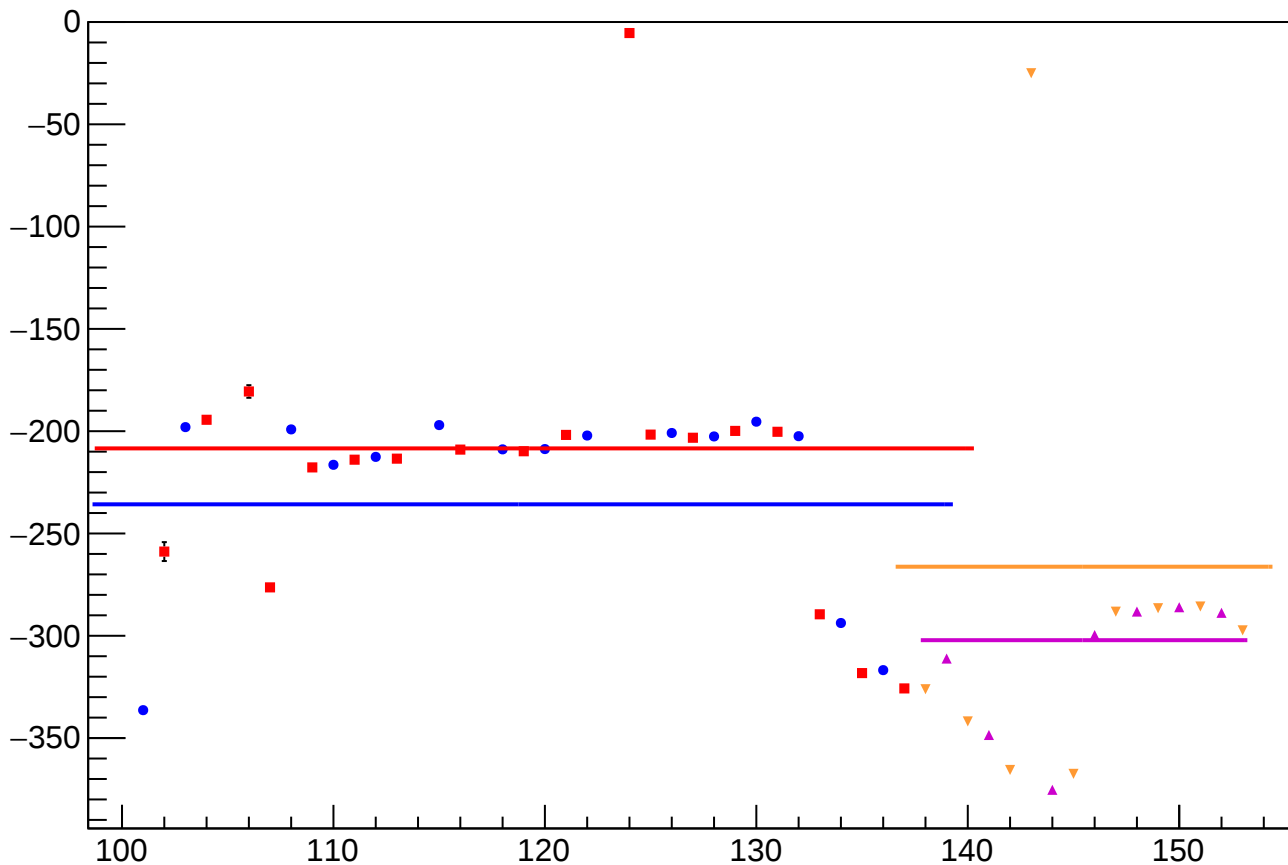
Left In: 864.473+/-0.299  $\chi^2/\text{NDF}$ : 84089.4/6

+ sign 681.194+/-0.151  $\chi^2/\text{NDF}$ : 1987587.0/23

All: 667.282+/-0.115  $\chi^2/\text{NDF}$ : 3257076.2/48

- sign 648.504+/-0.176  $\chi^2/\text{NDF}$ : 1249605.5/24

# dit\_atl2\_11X12X\_slope vs Slug



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-266.240 \pm 0.033$   $\chi^2/\text{NDF}: 6097866.4/8$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

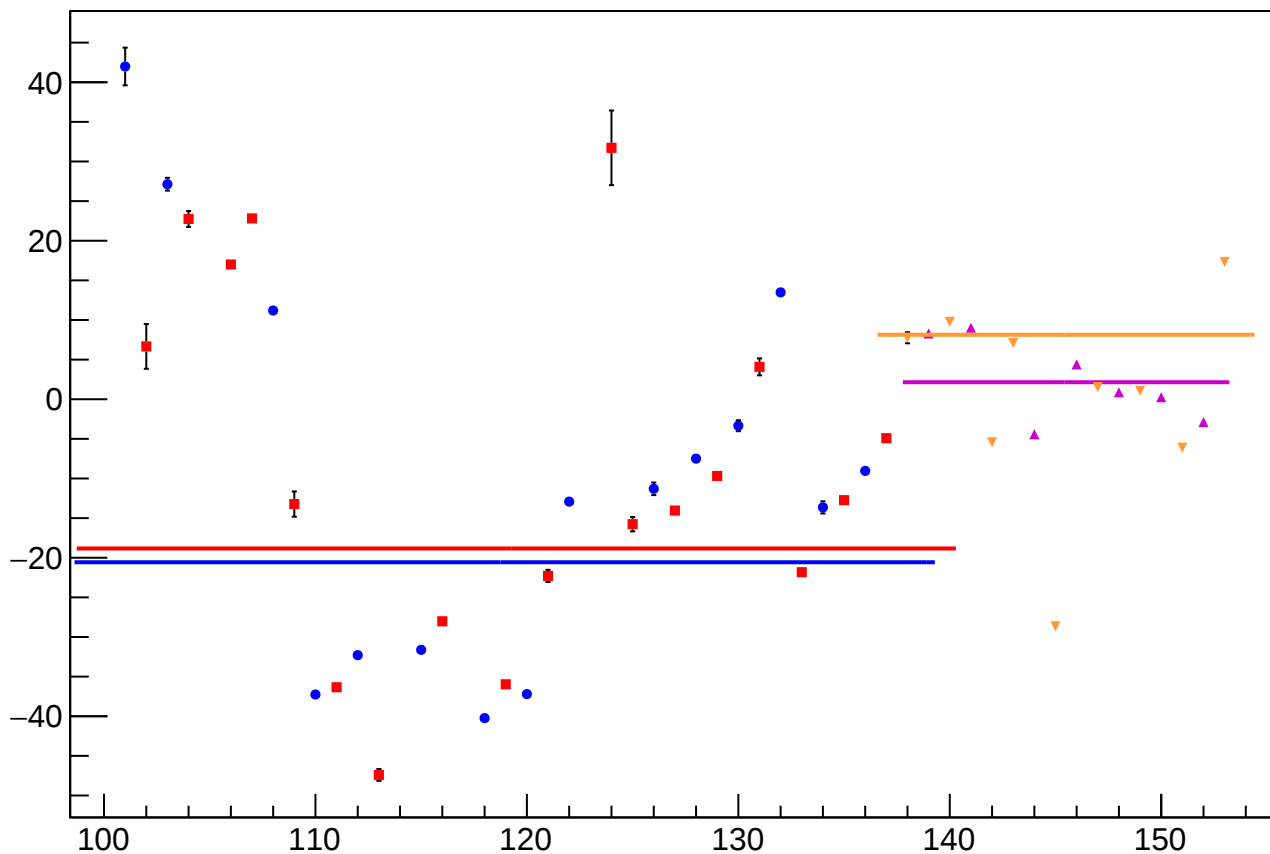
Left In:  $-302.153 \pm 0.055$   $\chi^2/\text{NDF}: 218003.5/6$

+ sign  $-258.213 \pm 0.028$   $\chi^2/\text{NDF}: 7198698.7/23$

All:  $-254.089 \pm 0.022$   $\chi^2/\text{NDF}: 9525438.2/48$

- sign  $-247.548 \pm 0.036$   $\chi^2/\text{NDF}: 2271938.4/24$

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $8.135 \pm 0.039$   $\chi^2/\text{NDF}$ : 44899.3/8

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

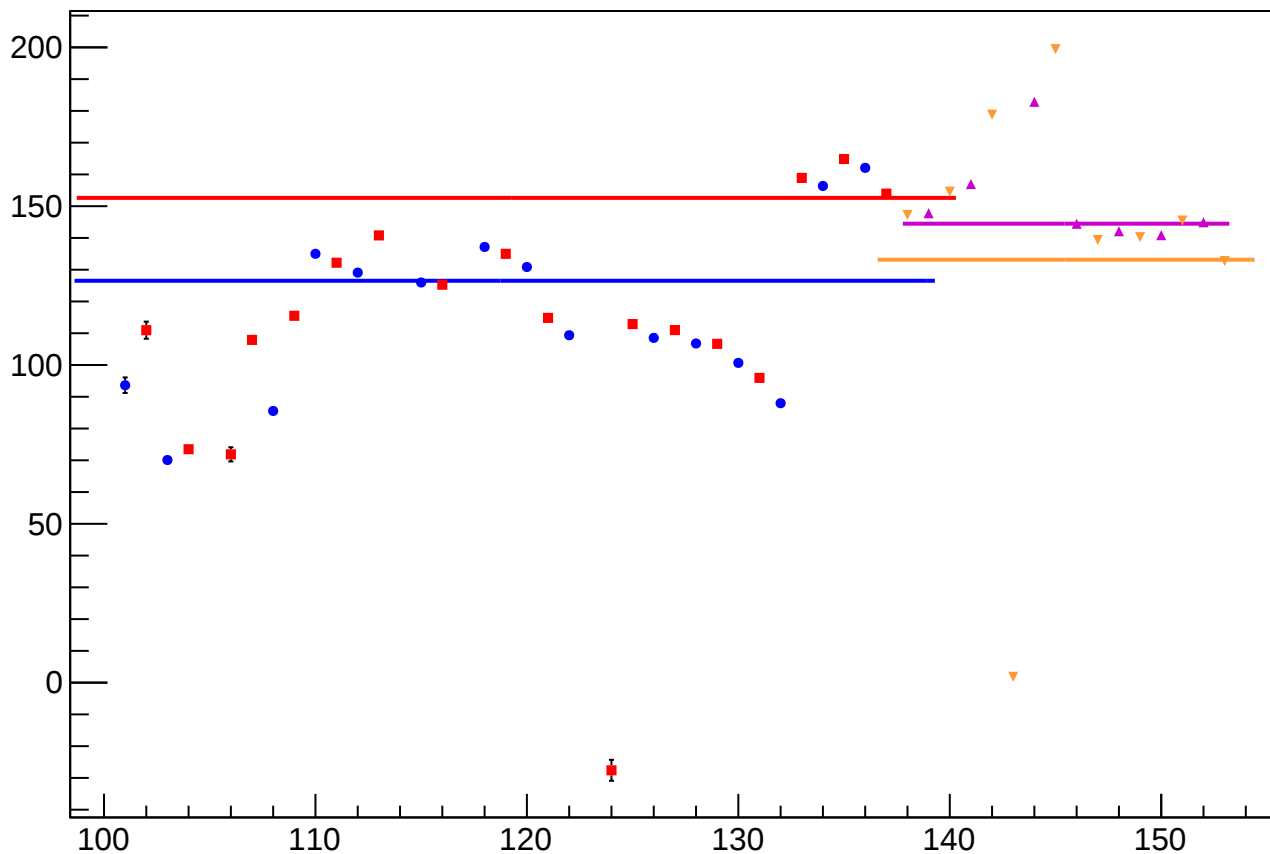
Left In:  $2.149 \pm 0.039$   $\chi^2/\text{NDF}$ : 7329.0/6

+ sign  $1.611 \pm 0.034$   $\chi^2/\text{NDF}$ : 233405.0/23

All:  $0.739 \pm 0.025$   $\chi^2/\text{NDF}$ : 296380.2/48

- sign  $-0.277 \pm 0.037$   $\chi^2/\text{NDF}$ : 61552.5/24

# dit\_atl2\_4eY\_slope vs Slug



Right In: 126.517+/-0.084  $\chi^2/\text{NDF}$ : 114967.3/14

Left Out: 133.150+/-0.050  $\chi^2/\text{NDF}$ : 382159.5/8

Right Out: 152.620+/-0.030  $\chi^2/\text{NDF}$ : 74022.9/17

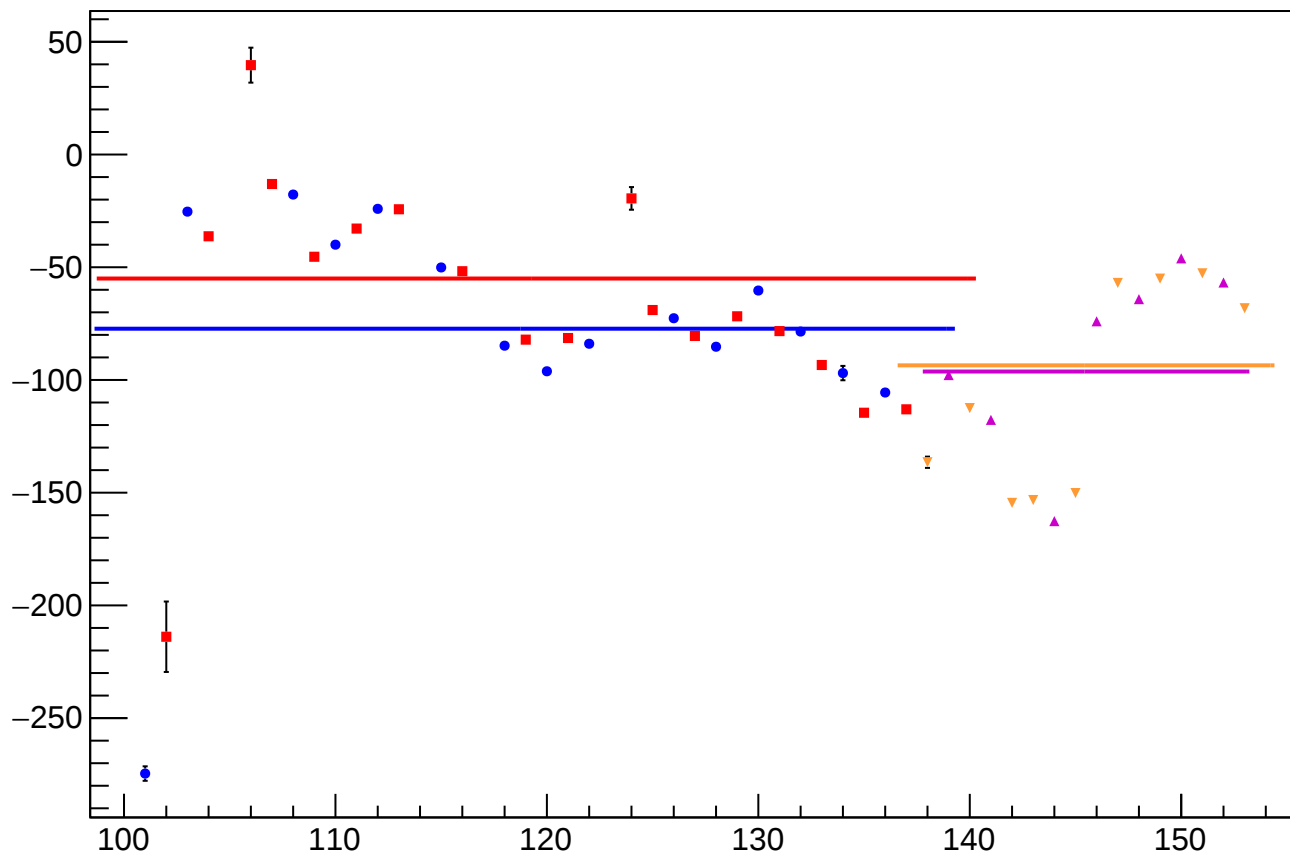
Left In: 144.490+/-0.050  $\chi^2/\text{NDF}$ : 20646.2/6

+ sign 131.391+/-0.043  $\chi^2/\text{NDF}$ : 501707.9/23

All: 145.395+/-0.022  $\chi^2/\text{NDF}$ : 758194.7/48

- sign 150.452+/-0.026  $\chi^2/\text{NDF}$ : 113796.7/24

# dit\_atr1\_4aX\_slope vs Slug



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}$ : 30356.0/14

Left Out:  $-93.517 \pm 0.192$   $\chi^2/\text{NDF}$ : 46435.5/8

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}$ : 23629.0/17

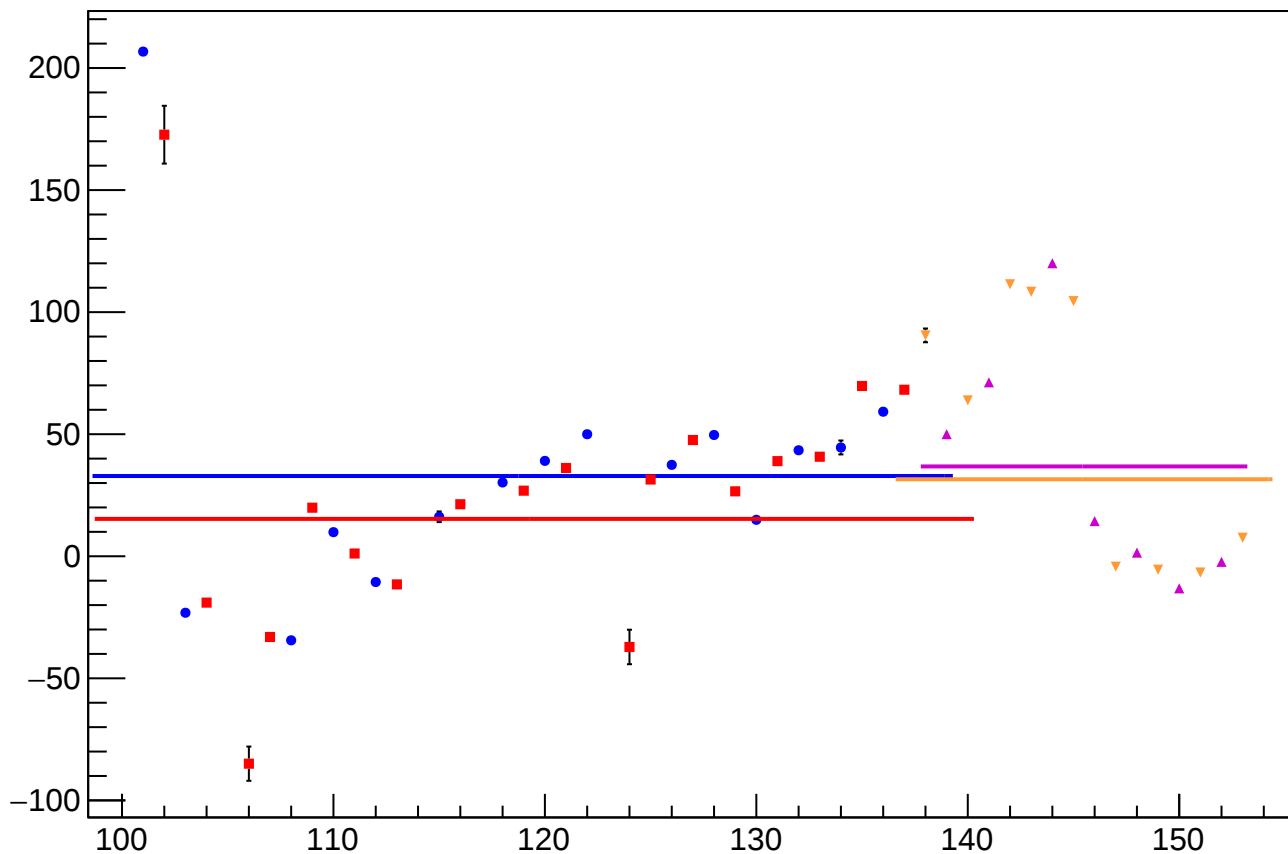
Left In:  $-96.259 \pm 0.187$   $\chi^2/\text{NDF}$ : 43127.5/6

+ sign  $-83.240 \pm 0.116$   $\chi^2/\text{NDF}$ : 81323.6/23

All:  $-80.119 \pm 0.088$   $\chi^2/\text{NDF}$ : 173703.3/48

- sign  $-76.034 \pm 0.133$   $\chi^2/\text{NDF}$ : 90721.0/24

# dit\_atr1\_4eX\_slope vs Slug



Right In: 32.869 $\pm$ 0.146  $\chi^2$ /NDF: 31393.7/14

Left Out: 31.539 $\pm$ 0.170  $\chi^2$ /NDF: 76117.0/8

Right Out: 15.309 $\pm$ 0.210  $\chi^2$ /NDF: 16746.0/17

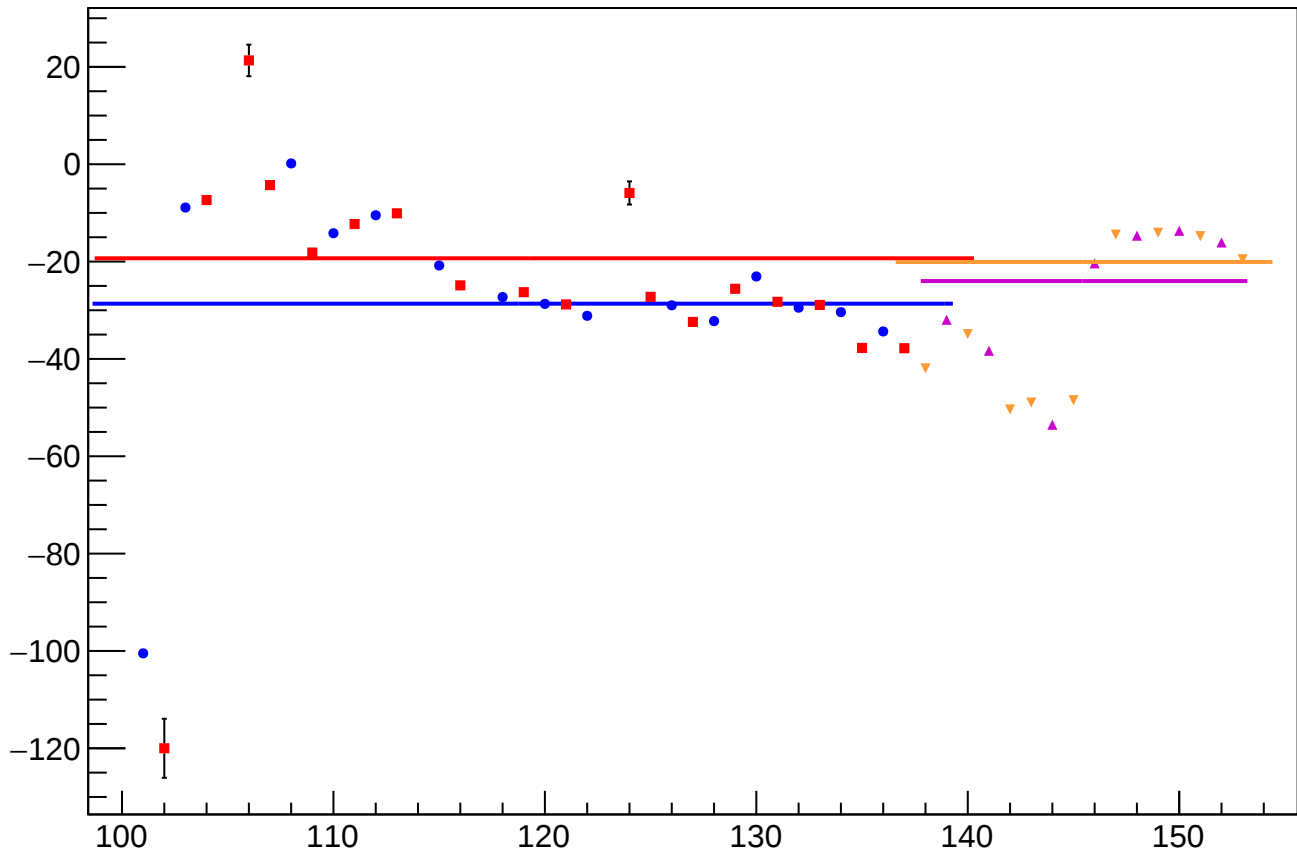
Left In: 36.793 $\pm$ 0.169  $\chi^2$ /NDF: 67452.5/6

+ sign 32.305 $\pm$ 0.111  $\chi^2$ /NDF: 107545.8/23

All: 30.662 $\pm$ 0.085  $\chi^2$ /NDF: 198647.6/48

- sign 28.354 $\pm$ 0.131  $\chi^2$ /NDF: 90573.5/24

# dit\_atr1\_11X12X\_slope vs Slug



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}$ : 113441.9/14

Left Out:  $-20.080 \pm 0.024$   $\chi^2/\text{NDF}$ : 209783.0/8

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}$ : 56579.1/17

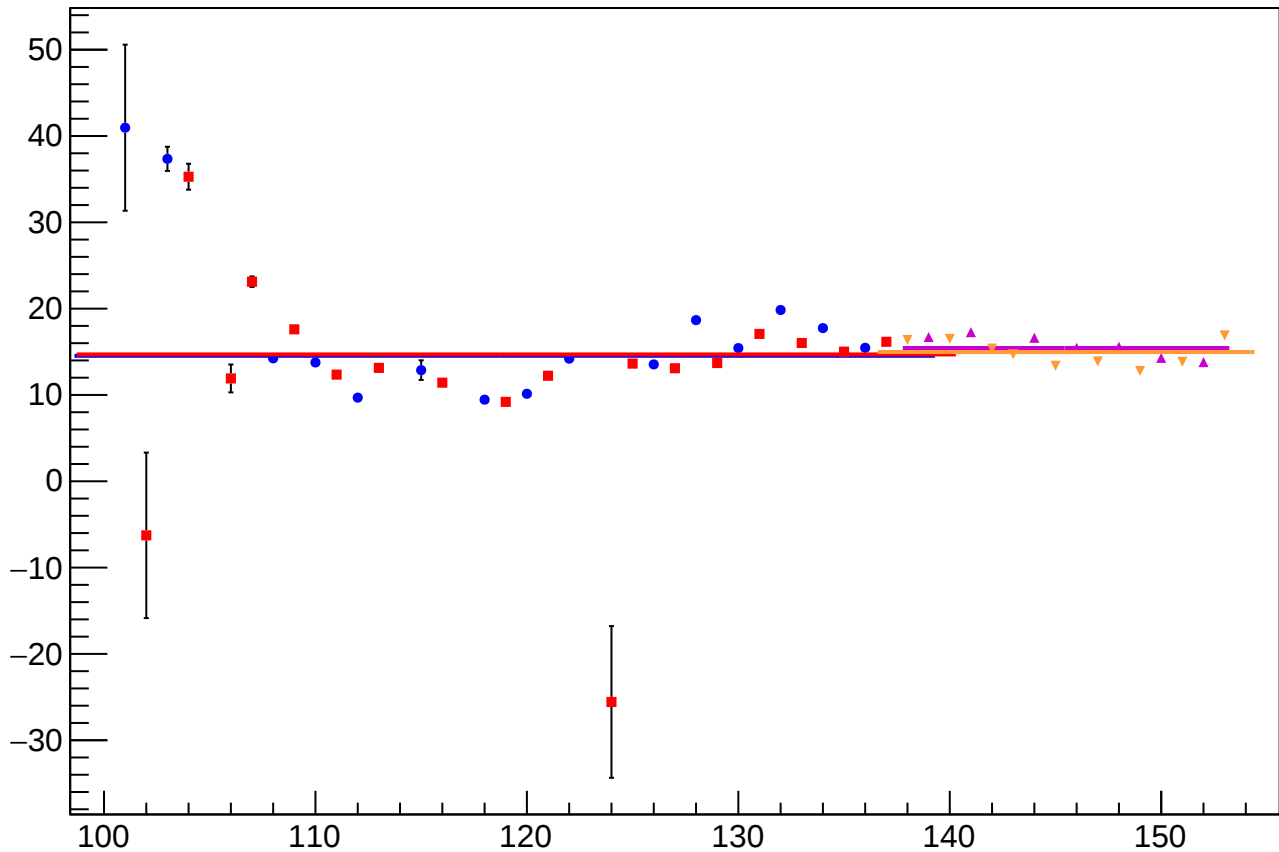
Left In:  $-24.000 \pm 0.029$   $\chi^2/\text{NDF}$ : 151030.9/6

+ sign  $-22.828 \pm 0.019$   $\chi^2/\text{NDF}$ : 365689.2/23

All:  $-22.645 \pm 0.015$   $\chi^2/\text{NDF}$ : 582756.6/48

- sign  $-22.386 \pm 0.023$   $\chi^2/\text{NDF}$ : 216853.2/24

# dit\_atr1\_4aY\_slope vs Slug



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 14.973 $\pm$ 0.024  $\chi^2$ /NDF: 3922.4/8

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

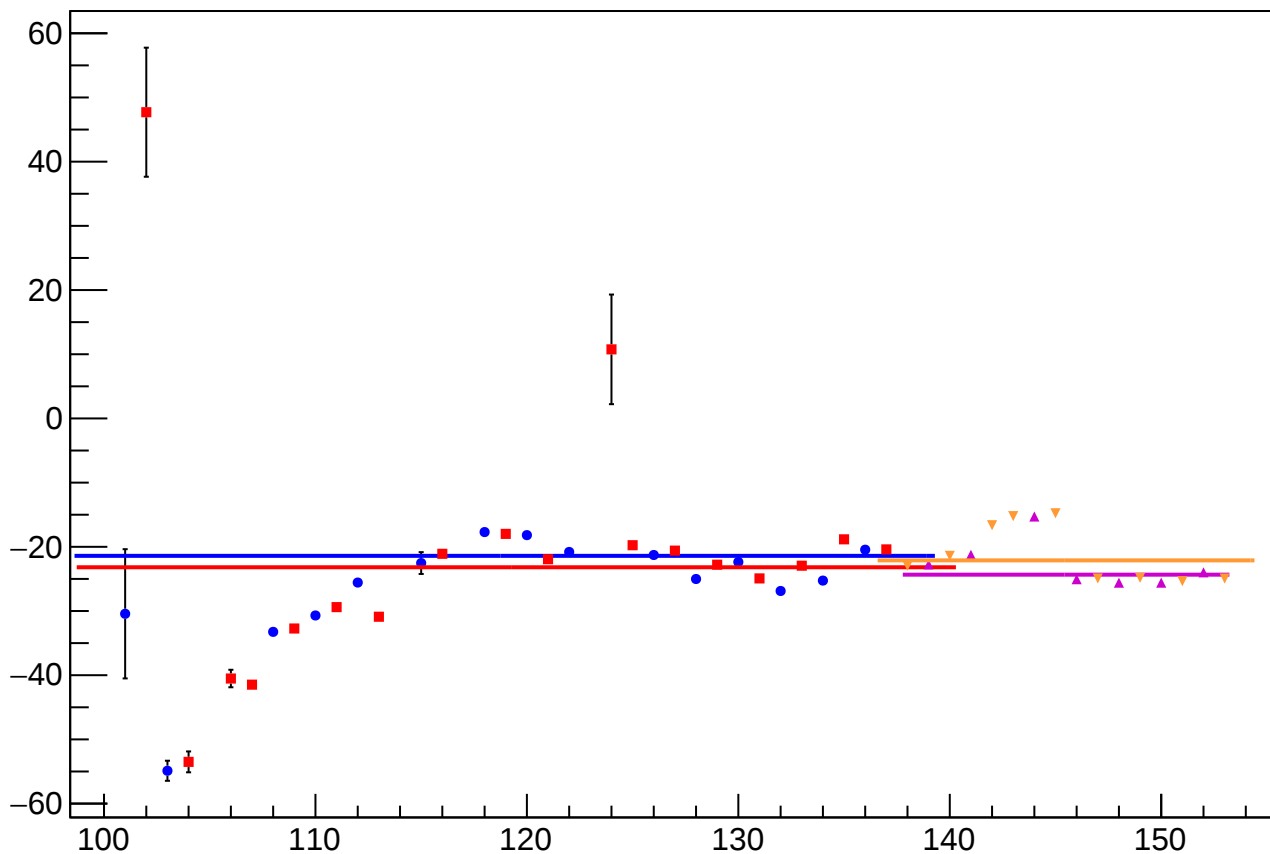
Left In: 15.441 $\pm$ 0.024  $\chi^2$ /NDF: 2637.5/6

+ sign 14.804 $\pm$ 0.019  $\chi^2$ /NDF: 16123.7/23

All: 15.010 $\pm$ 0.014  $\chi^2$ /NDF: 20898.0/48

- sign 15.270 $\pm$ 0.021  $\chi^2$ /NDF: 4497.0/24

# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}$ : 9686.6/14

Left Out:  $-22.112 \pm 0.026$   $\chi^2/\text{NDF}$ : 25146.5/8

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}$ : 9126.8/17

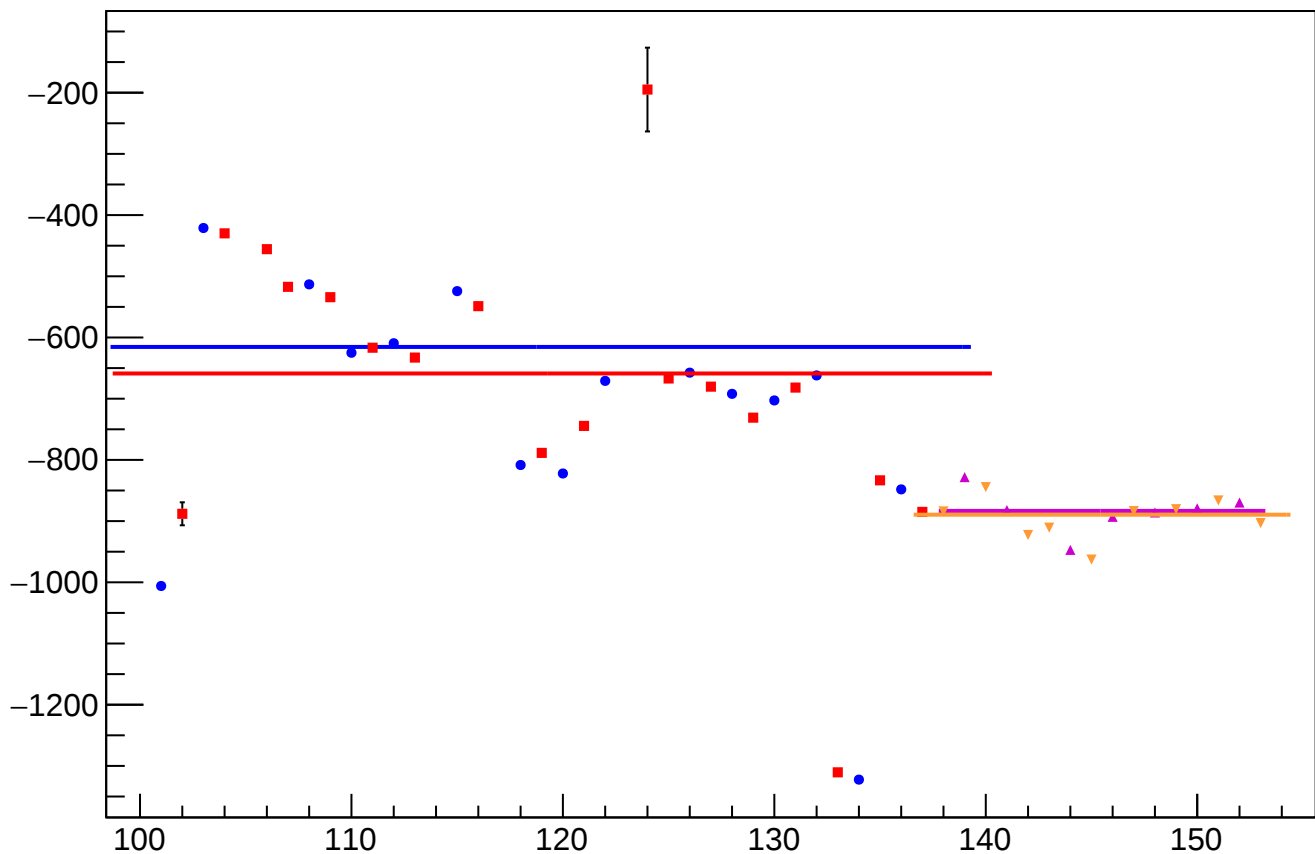
Left In:  $-24.338 \pm 0.027$   $\chi^2/\text{NDF}$ : 7291.2/6

+ sign  $-21.866 \pm 0.021$   $\chi^2/\text{NDF}$ : 35089.8/23

All:  $-22.844 \pm 0.016$   $\chi^2/\text{NDF}$ : 56849.8/48

- sign  $-24.091 \pm 0.024$   $\chi^2/\text{NDF}$ : 16817.1/24

# dit\_atr2\_4aX\_slope vs Slug



Right In:  $-615.419 \pm 0.238$   $\chi^2/\text{NDF}: 382819.1/14$

Left Out:  $-889.526 \pm 0.244$   $\chi^2/\text{NDF}: 10980.2/8$

Right Out:  $-658.787 \pm 0.256$   $\chi^2/\text{NDF}: 385262.6/17$

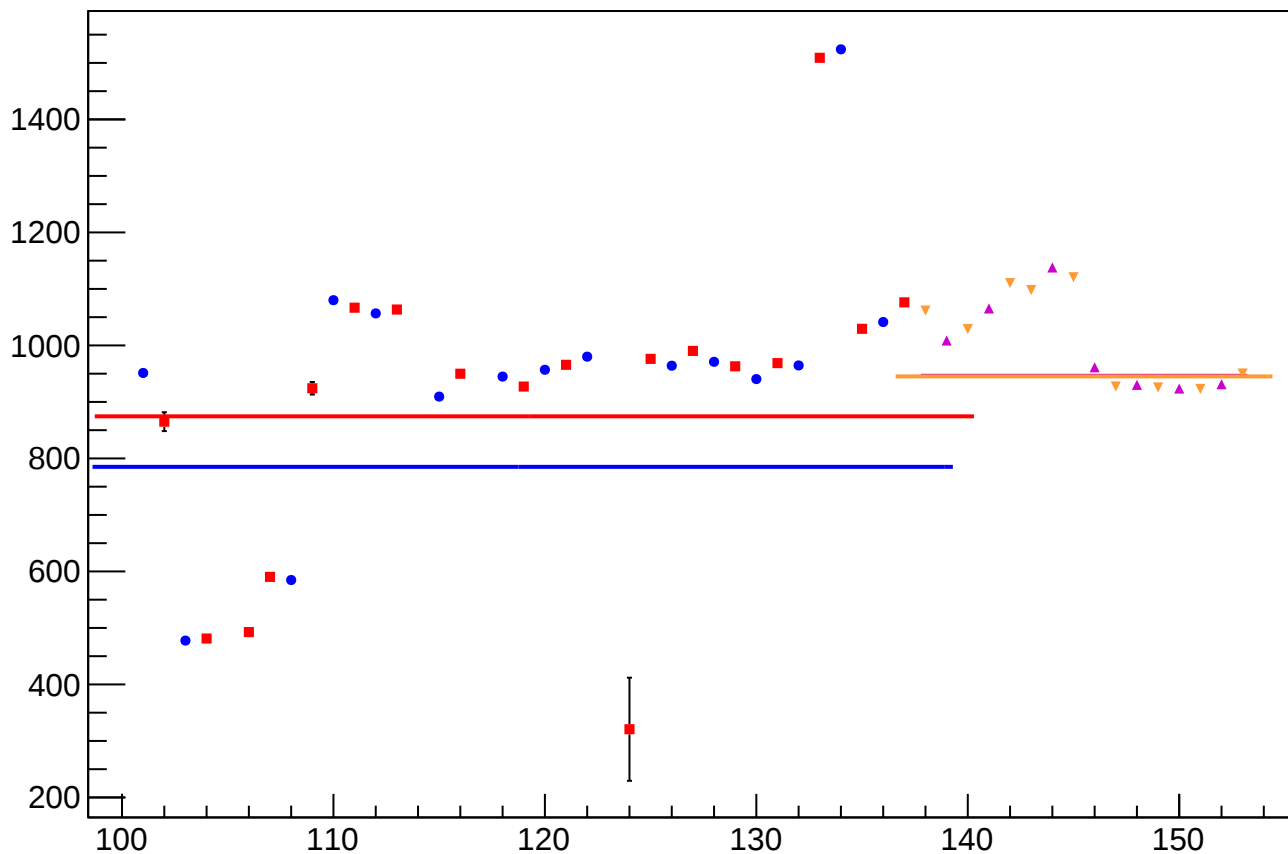
Left In:  $-883.328 \pm 0.213$   $\chi^2/\text{NDF}: 8624.7/6$

+ sign  $-748.795 \pm 0.170$   $\chi^2/\text{NDF}: 1041382.6/23$

All:  $-770.871 \pm 0.118$   $\chi^2/\text{NDF}: 1920872.8/48$

- sign  $-791.362 \pm 0.164$   $\chi^2/\text{NDF}: 847069.5/24$

# dit\_atr2\_4eX\_slope vs Slug



Right In: 785.095+/-0.228     $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 945.146+/-0.191     $\chi^2/\text{NDF}$ : 67876.6/8

Right Out: 874.516+/-0.261     $\chi^2/\text{NDF}$ : 842565.5/17

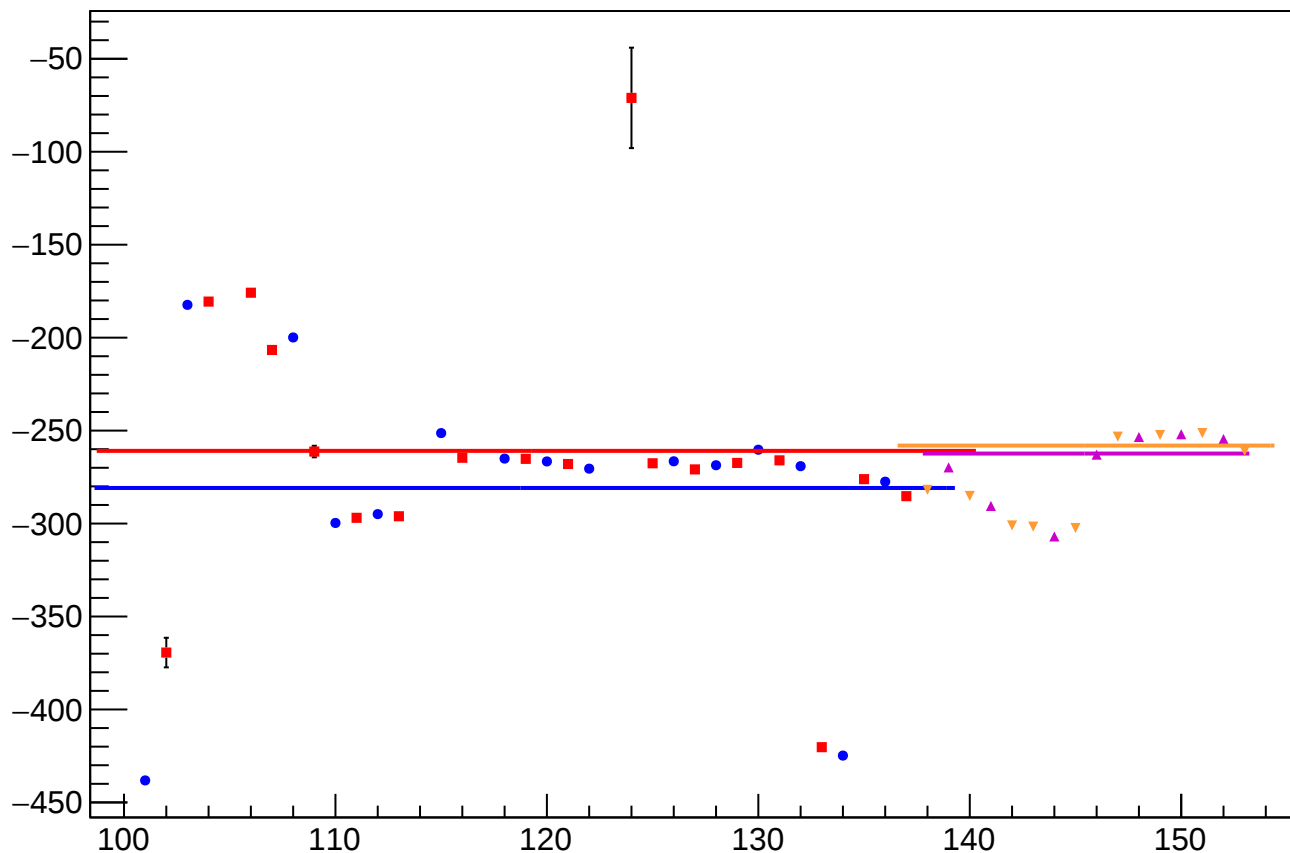
Left In: 946.266+/-0.179     $\chi^2/\text{NDF}$ : 72745.7/6

+ sign 879.083+/-0.147     $\chi^2/\text{NDF}$ : 1243298.6/23

All: 900.975+/-0.104     $\chi^2/\text{NDF}$ : 2254945.7/48

- sign 923.279+/-0.148     $\chi^2/\text{NDF}$ : 966569.7/24

# dit\_atr2\_11X12X\_slope vs Slug



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-258.051 \pm 0.030$   $\chi^2/\text{NDF}: 155682.0/8$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

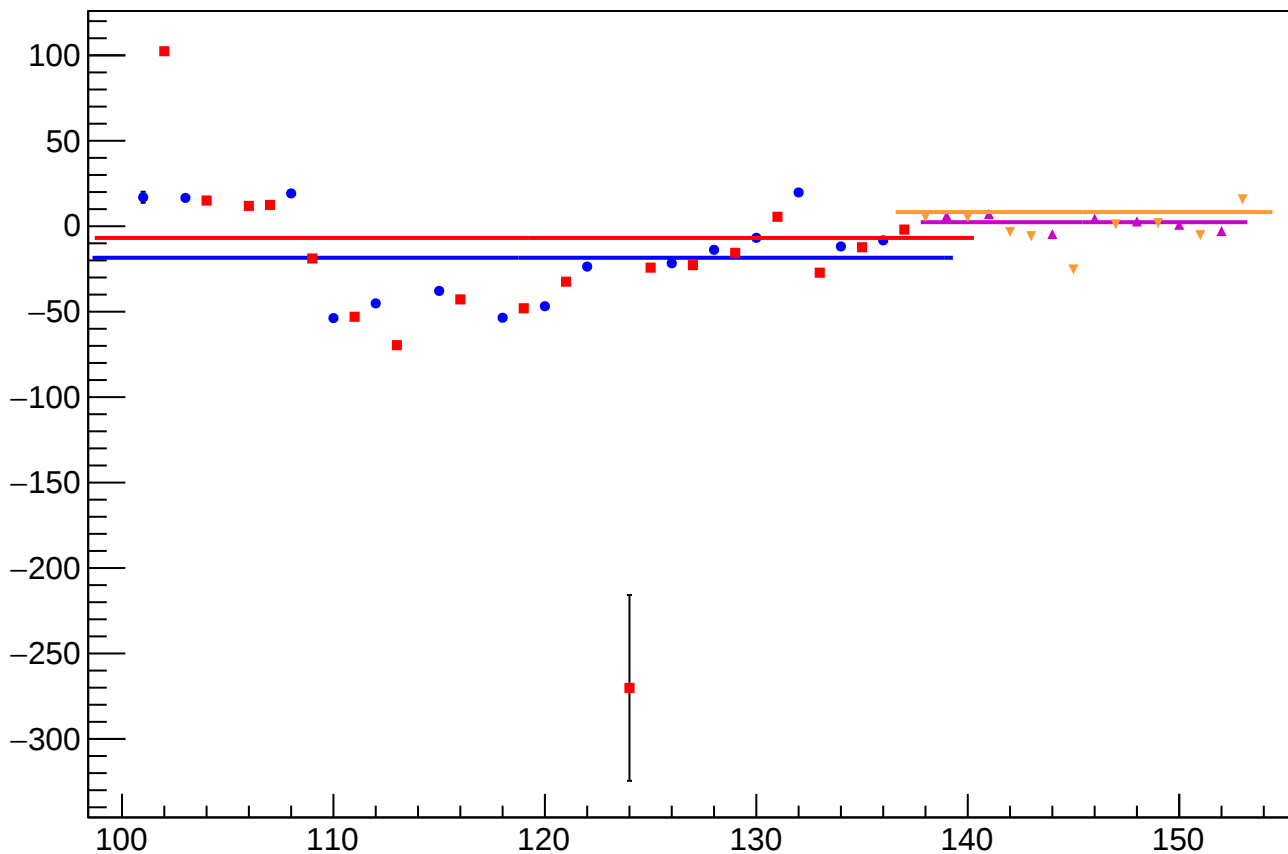
Left In:  $-262.344 \pm 0.038$   $\chi^2/\text{NDF}: 161561.7/6$

+ sign  $-262.919 \pm 0.027$   $\chi^2/\text{NDF}: 1148690.5/23$

All:  $-262.548 \pm 0.021$   $\chi^2/\text{NDF}: 1658784.8/48$

- sign  $-262.001 \pm 0.033$   $\chi^2/\text{NDF}: 509629.4/24$

dit\_atr2\_4aY\_slope vs Slug



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}$ : 46574.6/14

Left Out:  $8.291 \pm 0.039$   $\chi^2/\text{NDF}$ : 40845.1/8

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}$ : 50023.0/17

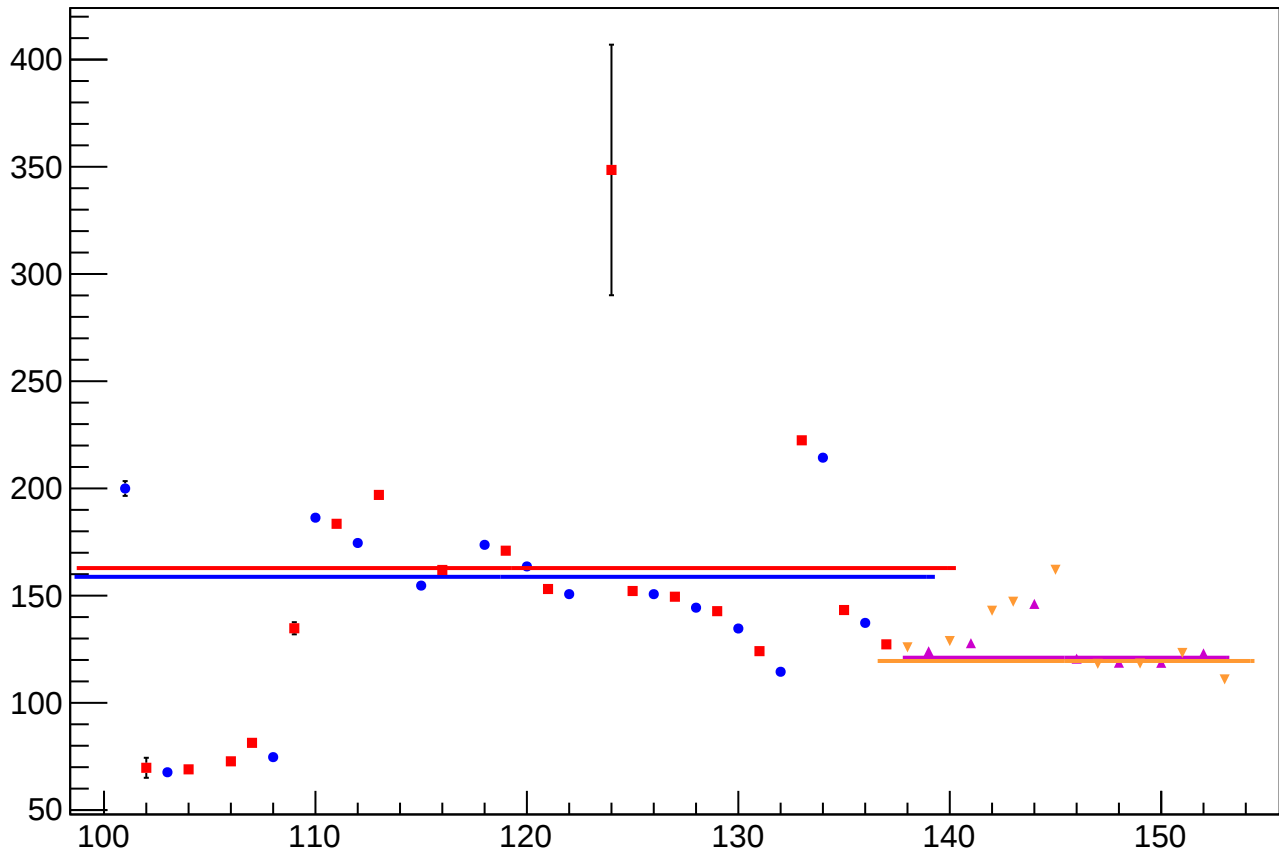
Left In:  $2.368 \pm 0.041$   $\chi^2/\text{NDF}$ : 4216.0/6

+ sign  $4.136 \pm 0.036$   $\chi^2/\text{NDF}$ : 159933.6/23

All:  $1.841 \pm 0.025$   $\chi^2/\text{NDF}$ : 236491.8/48

- sign  $-0.311 \pm 0.035$   $\chi^2/\text{NDF}$ : 68669.2/24

dit\_atr2\_4eY\_slope vs Slug



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 119.528 $\pm$ 0.047  $\chi^2$ /NDF: 44793.1/8

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

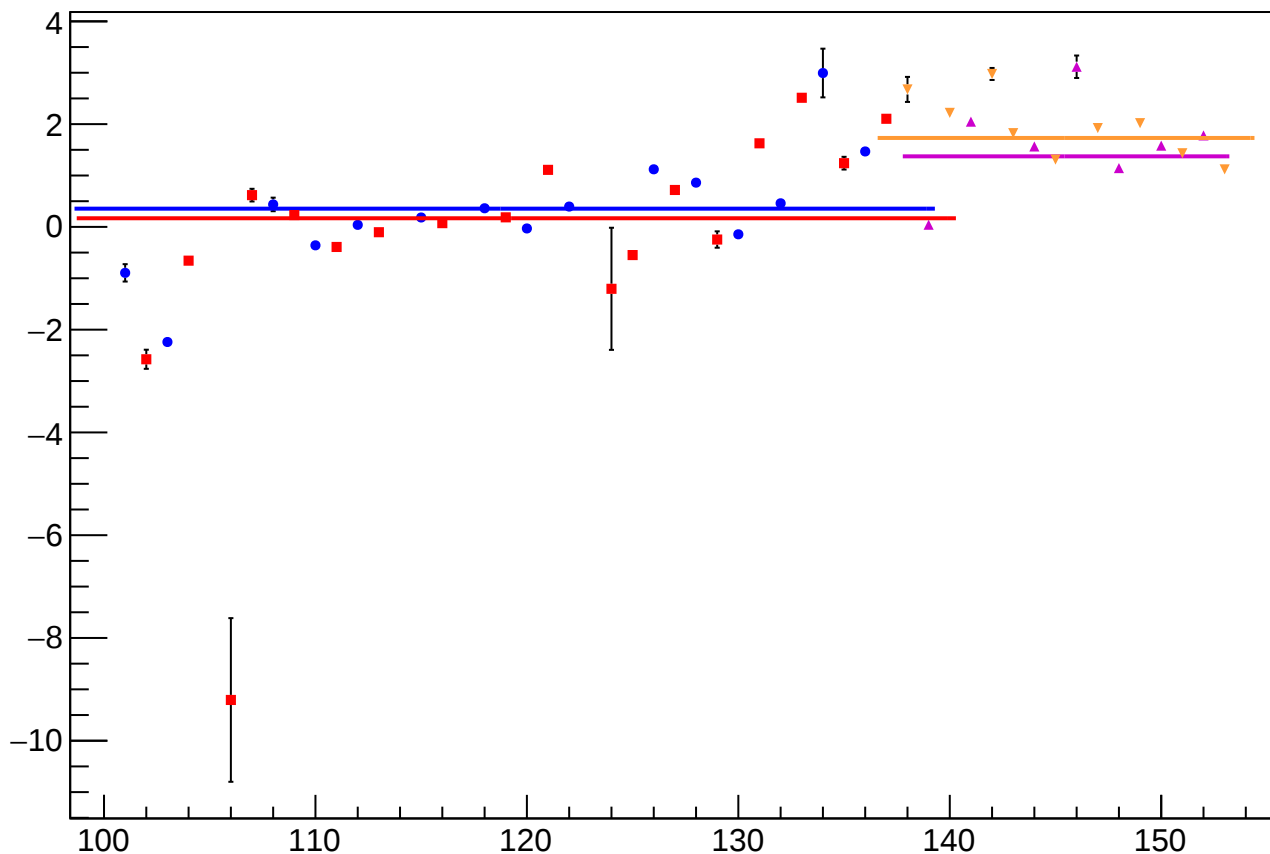
Left In: 121.051 $\pm$ 0.044  $\chi^2$ /NDF: 12991.8/6

+ sign 128.096 $\pm$ 0.041  $\chi^2$ /NDF: 358178.1/23

All: 128.418 $\pm$ 0.029  $\chi^2$ /NDF: 691523.0/48

- sign 128.719 $\pm$ 0.040  $\chi^2$ /NDF: 333227.3/24

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}: 4011.3/14$

Left Out:  $1.731 \pm 0.016$   $\chi^2/\text{NDF}: 597.0/8$

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}: 4588.1/17$

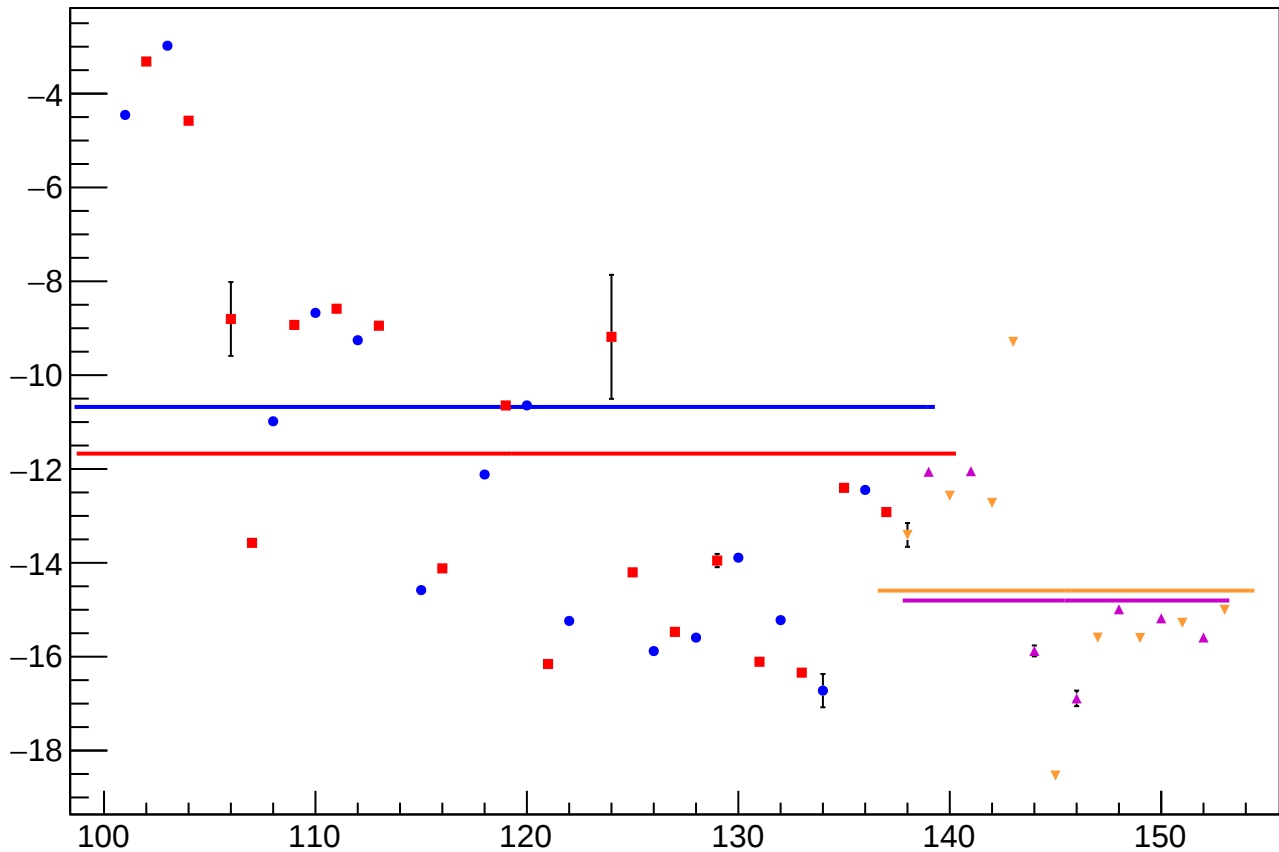
Left In:  $1.373 \pm 0.012$   $\chi^2/\text{NDF}: 2745.1/6$

+ sign  $0.822 \pm 0.010$   $\chi^2/\text{NDF}: 9252.6/23$

All:  $0.611 \pm 0.005$   $\chi^2/\text{NDF}: 24465.5/48$

- sign  $0.516 \pm 0.006$   $\chi^2/\text{NDF}: 14507.7/24$

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.592 \pm 0.013$   $\chi^2/\text{NDF}: 28454.7/8$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

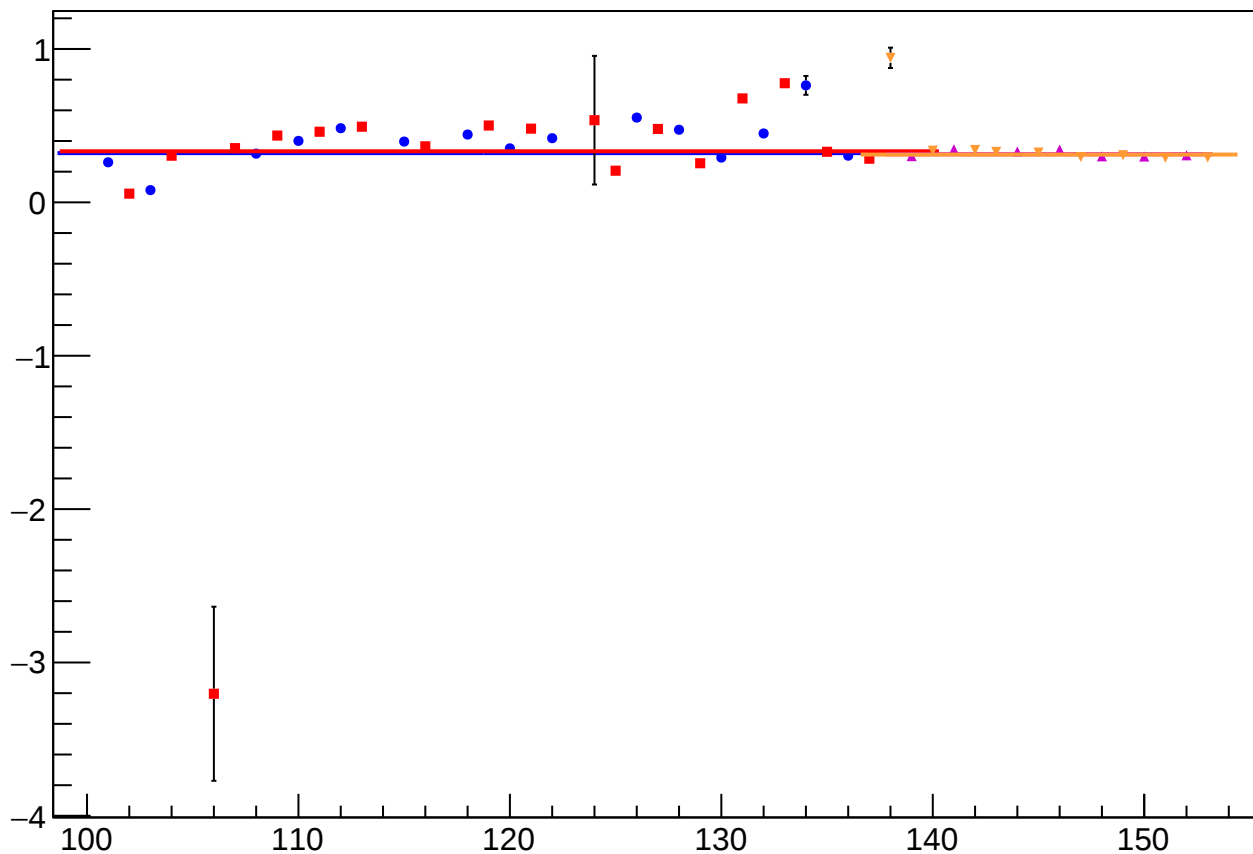
Left In:  $-14.803 \pm 0.011$   $\chi^2/\text{NDF}: 9921.2/6$

+ sign  $-12.139 \pm 0.008$   $\chi^2/\text{NDF}: 309393.4/23$

All:  $-12.696 \pm 0.006$   $\chi^2/\text{NDF}: 473197.9/48$

- sign  $-13.258 \pm 0.008$   $\chi^2/\text{NDF}: 154403.4/24$

# dit\_sam1\_11X12X\_slope vs Slug



Right In: 0.321 $\pm$ 0.001  $\chi^2$ /NDF: 4017.7/14

Left Out: 0.312 $\pm$ 0.000  $\chi^2$ /NDF:2258.9/8

Right Out: 0.333 $\pm$ 0.001  $\chi^2$ /NDF: 4170.0/17

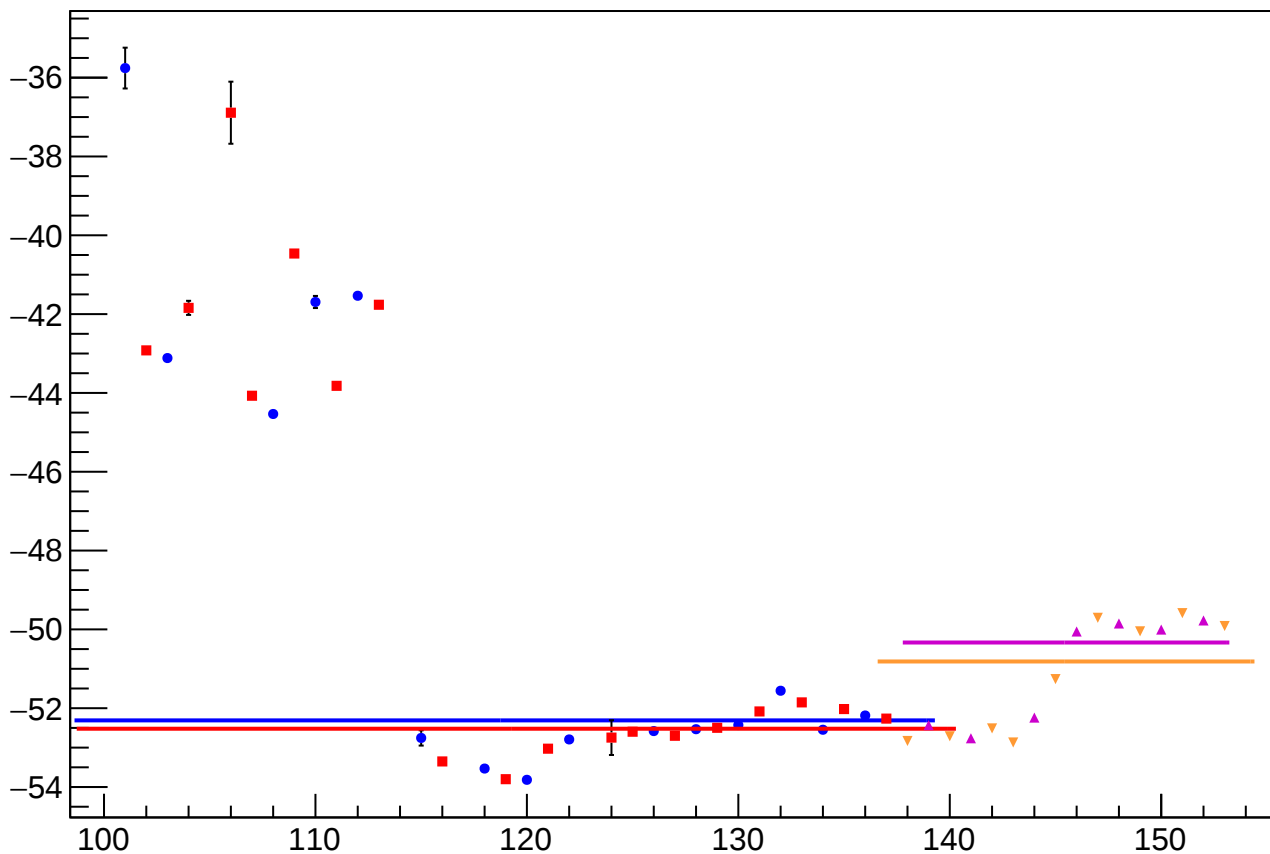
Left In: 0.314 $\pm$ 0.000  $\chi^2$ /NDF:1365.1/6

+ sign 0.313 $\pm$ 0.000  $\chi^2$ /NDF: 6358.5/23

All: 0.314 $\pm$ 0.000  $\chi^2$ /NDF: 12129.2/48

- sign 0.316 $\pm$ 0.000  $\chi^2$ /NDF: 5749.2/24

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}: 53459.2/14$

Left Out:  $-50.814 \pm 0.003$   $\chi^2/\text{NDF}: 189484.6/8$

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}: 76616.3/17$

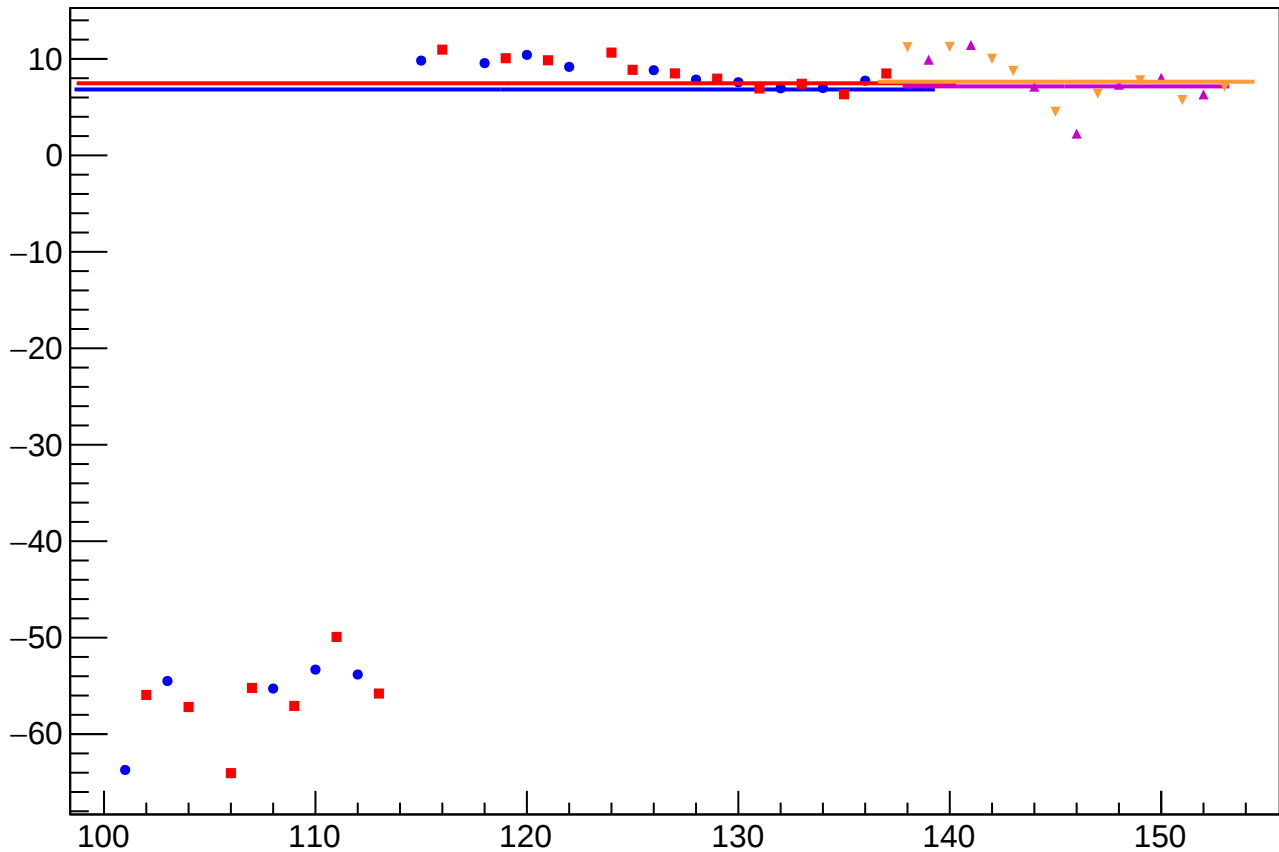
Left In:  $-50.333 \pm 0.002$   $\chi^2/\text{NDF}: 147898.9/6$

+ sign  $-51.322 \pm 0.003$   $\chi^2/\text{NDF}: 318634.7/23$

All:  $-51.013 \pm 0.002$   $\chi^2/\text{NDF}: 744803.7/48$

- sign  $-50.802 \pm 0.002$   $\chi^2/\text{NDF}: 401875.2/24$

# dit\_sam1\_4eY\_slope vs Slug



Right In: 6.834 $\pm$ 0.005  $\chi^2$ /NDF: 990576.4/14

Left Out: 7.636 $\pm$ 0.007  $\chi^2$ /NDF: 71004.7/8

Right Out: 7.474 $\pm$ 0.009  $\chi^2$ /NDF: 1195498.7/17

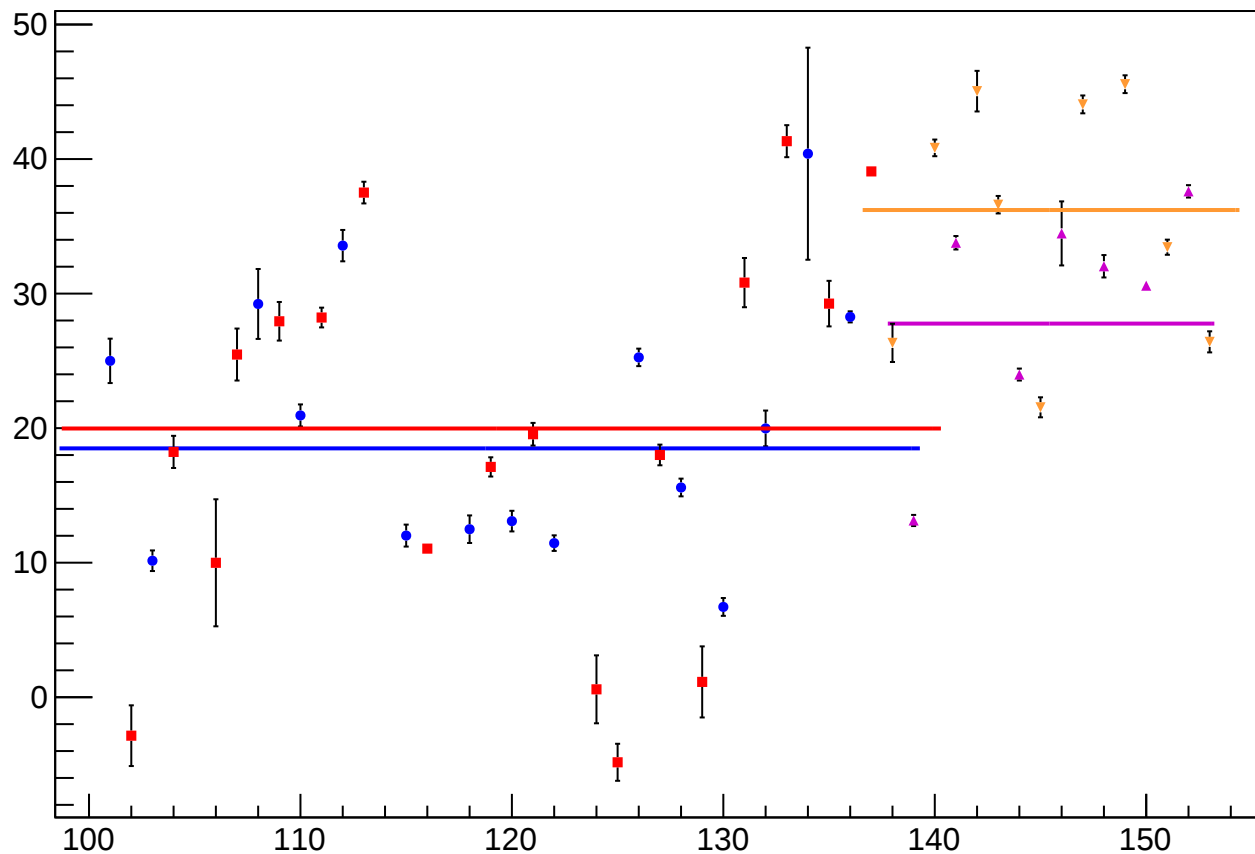
Left In: 7.150 $\pm$ 0.006  $\chi^2$ /NDF: 88175.8/6

+ sign 7.130 $\pm$ 0.004  $\chi^2$ /NDF: 1070860.3/23

All: 7.175 $\pm$ 0.003  $\chi^2$ /NDF: 2355709.6/48

- sign 7.247 $\pm$ 0.005  $\chi^2$ /NDF: 1284522.9/24

# dit\_sam2\_4aX\_slope vs Slug



Right In:  $18.496 \pm 0.200$   $\chi^2/\text{NDF}: 1636.7/14$

Left Out:  $36.212 \pm 0.242$   $\chi^2/\text{NDF}: 1047.7/8$

Right Out:  $19.974 \pm 0.130$   $\chi^2/\text{NDF}: 9201.3/17$

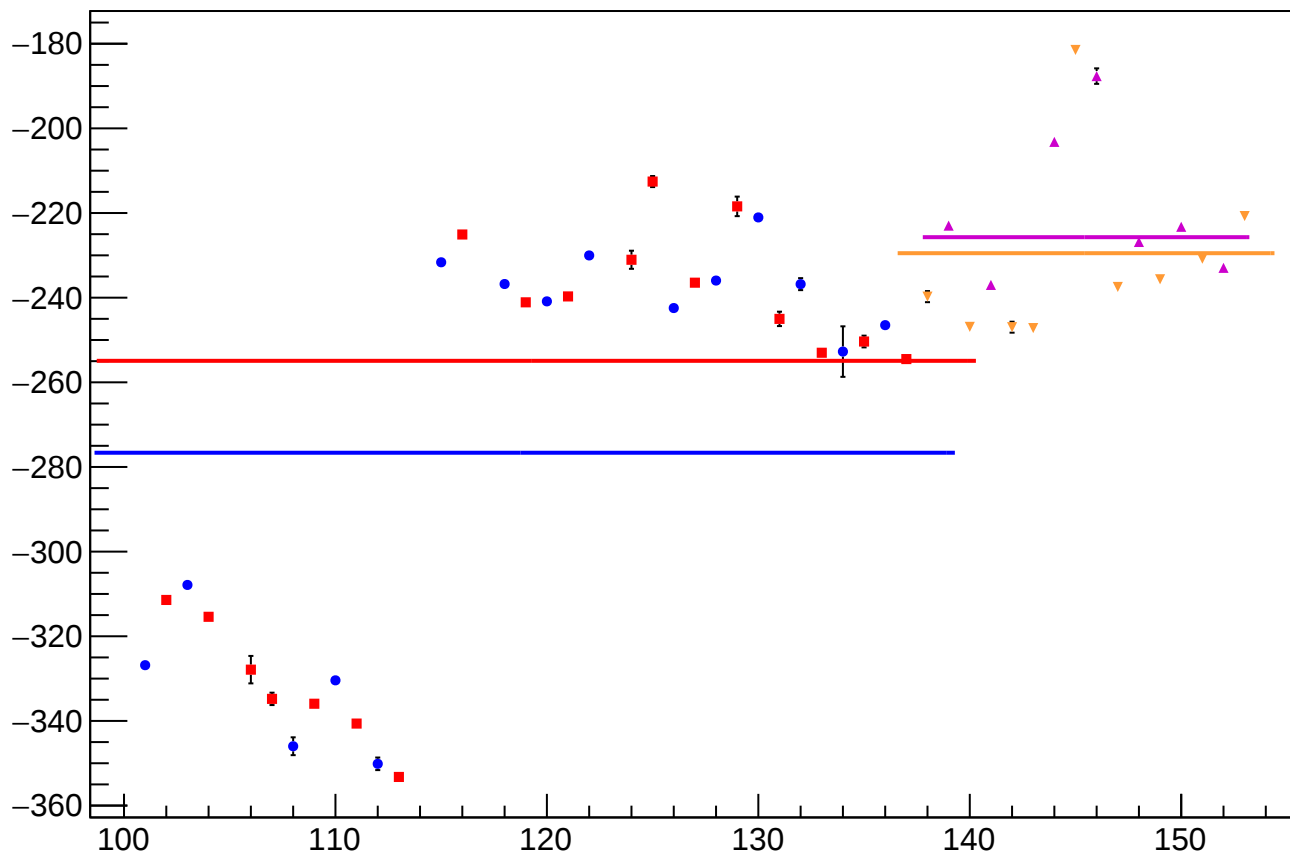
Left In:  $27.770 \pm 0.180$   $\chi^2/\text{NDF}: 2028.9/6$

+ sign  $25.683 \pm 0.154$   $\chi^2/\text{NDF}: 5865.9/23$

All:  $23.614 \pm 0.087$   $\chi^2/\text{NDF}: 18589.3/48$

- sign  $22.645 \pm 0.106$   $\chi^2/\text{NDF}: 12459.0/24$

# dit\_sam2\_4eX\_slope vs Slug



Right In: -276.636 $\pm$ 0.148  $\chi^2$ /NDF: 77119.6/14

Left Out: -229.492 $\pm$ 0.194  $\chi^2$ /NDF:10889.4/8

Right Out: -254.921 $\pm$ 0.071  $\chi^2$ /NDF: 71945.8/17

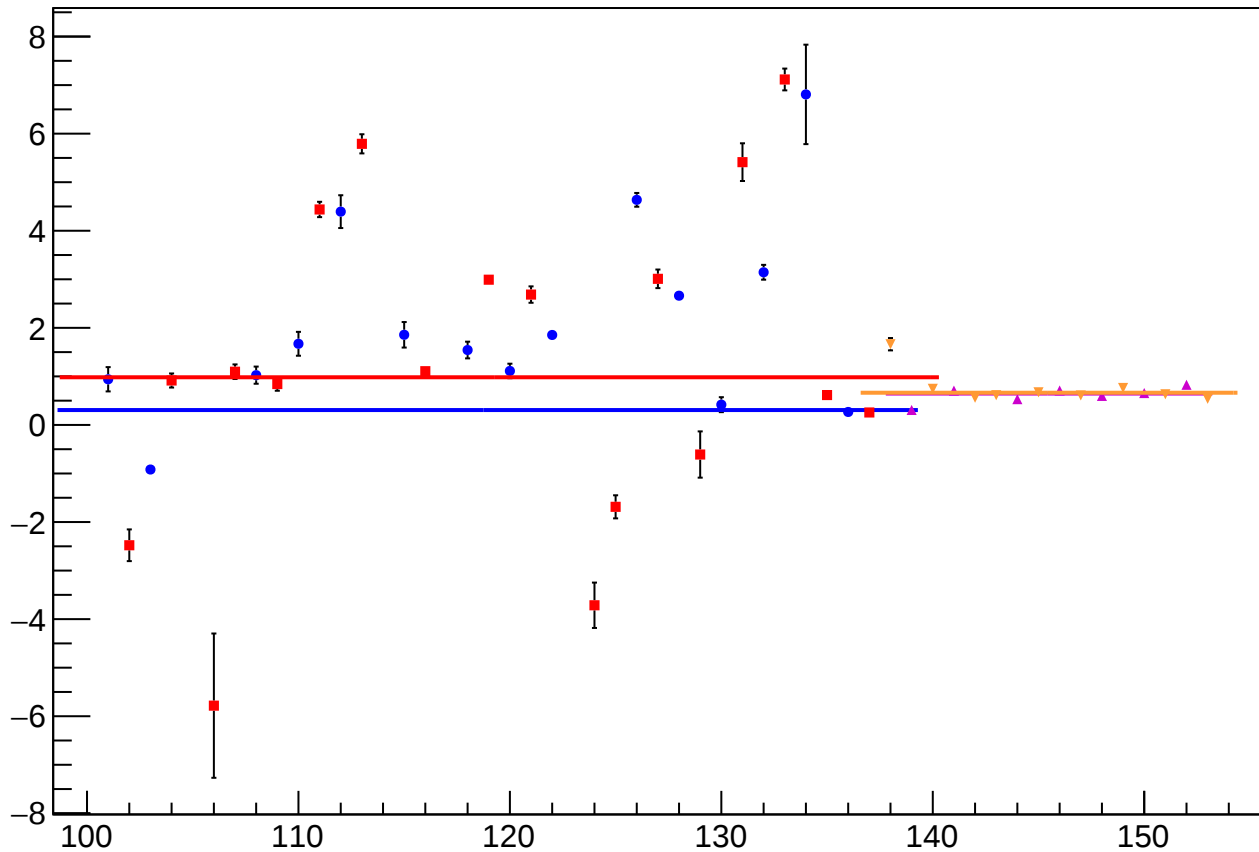
Left In: -225.708 $\pm$ 0.158  $\chi^2$ /NDF:2520.7/6

+ sign -259.312 $\pm$ 0.117  $\chi^2$ /NDF: 125527.0/23

All: -252.160 $\pm$ 0.057  $\chi^2$ /NDF: 233349.1/48

- sign -249.971 $\pm$ 0.065  $\chi^2$ /NDF: 102970.3/24

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}$ : 2787.0/14

Left Out:  $0.664 \pm 0.003$   $\chi^2/\text{NDF}$ : 543.1/8

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}$ : 3374.7/17

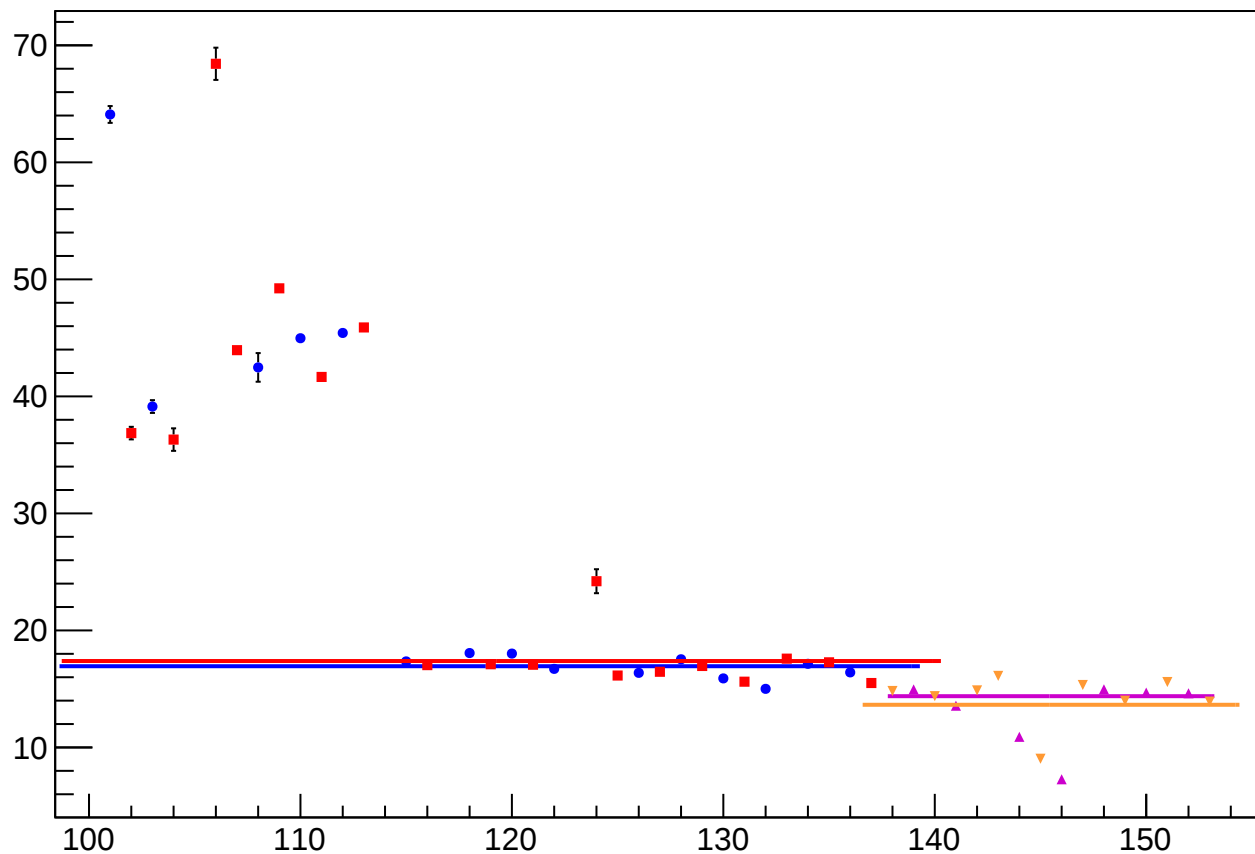
Left In:  $0.646 \pm 0.003$   $\chi^2/\text{NDF}$ : 3270.3/6

+ sign  $0.589 \pm 0.003$   $\chi^2/\text{NDF}$ : 5616.9/23

All:  $0.625 \pm 0.002$   $\chi^2/\text{NDF}$ : 13044.4/48

- sign  $0.659 \pm 0.003$   $\chi^2/\text{NDF}$ : 7147.6/24

# dit\_sam2\_4aY\_slope vs Slug



Right In: 16.941 $\pm$ 0.013  $\chi^2$ /NDF: 29019.8/14

Left Out: 13.646 $\pm$ 0.013  $\chi^2$ /NDF: 43669.5/8

Right Out: 17.385 $\pm$ 0.018  $\chi^2$ /NDF: 61131.5/17

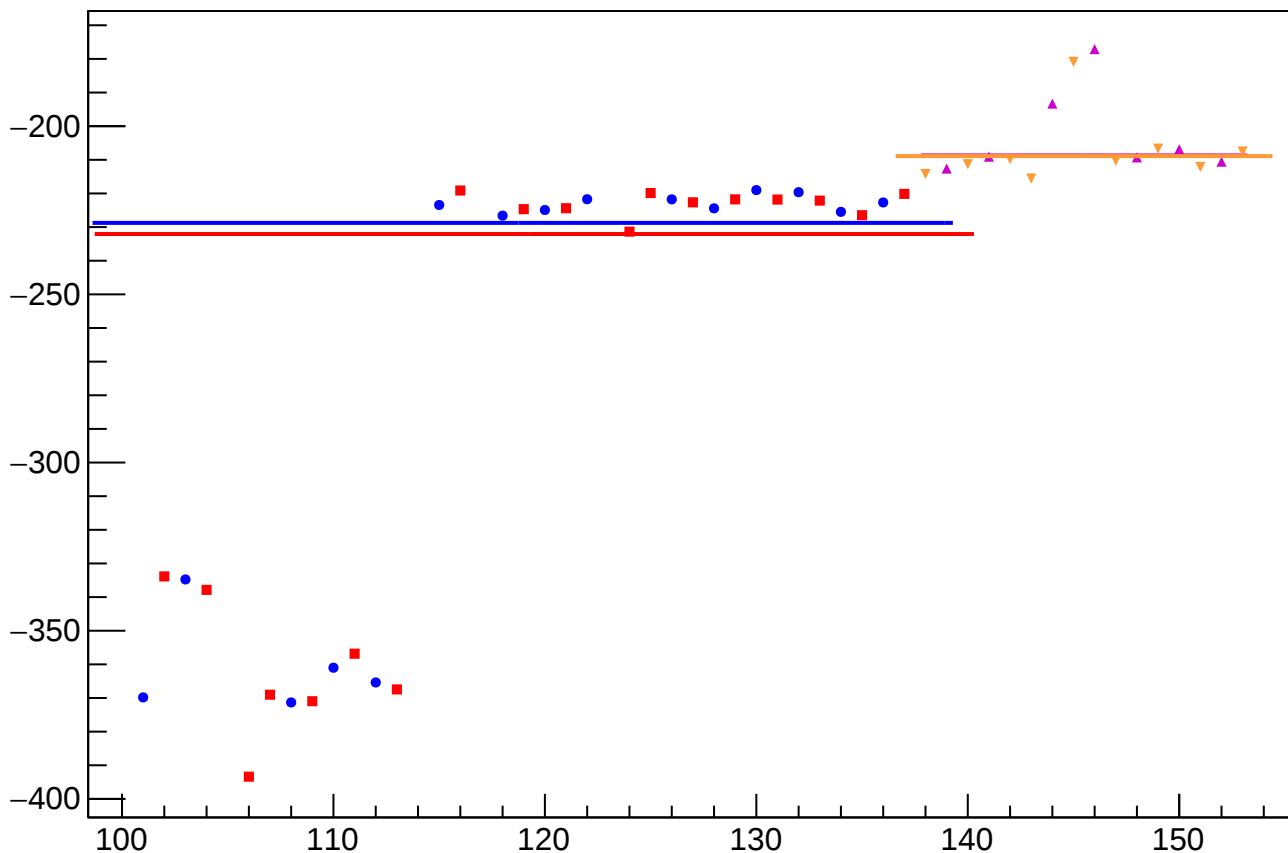
Left In: 14.381 $\pm$ 0.017  $\chi^2$ /NDF: 5207.1/6

+ sign 15.266 $\pm$ 0.009  $\chi^2$ /NDF: 106010.7/23

All: 15.460 $\pm$ 0.007  $\chi^2$ /NDF: 188944.5/48

- sign 15.809 $\pm$ 0.012  $\chi^2$ /NDF: 81644.8/24

# dit\_sam2\_4eY\_slope vs Slug



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}: 657578.5/14$

Left Out:  $-208.901 \pm 0.023$   $\chi^2/\text{NDF}: 72262.9/8$

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}: 791526.5/17$

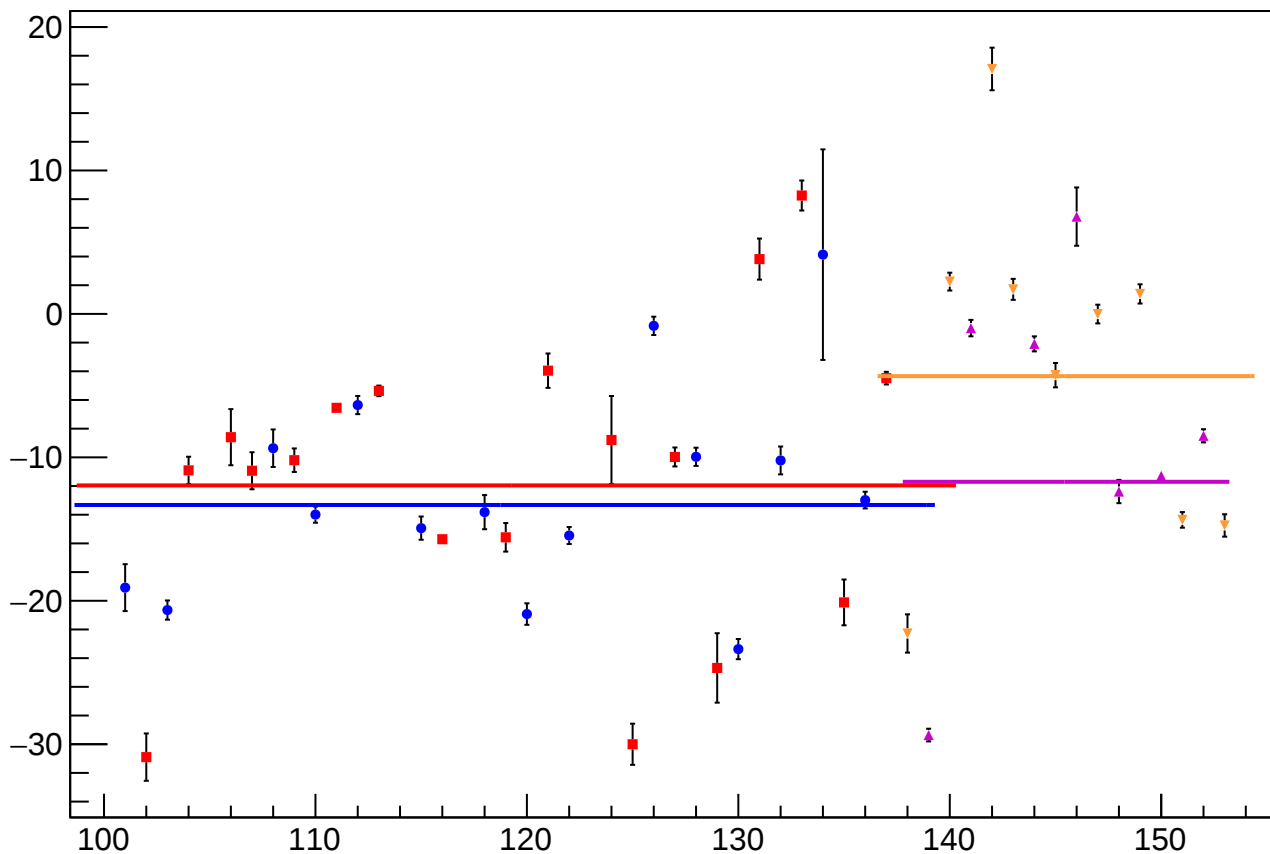
Left In:  $-208.696 \pm 0.025$   $\chi^2/\text{NDF}: 12363.0/6$

+ sign  $-214.873 \pm 0.019$   $\chi^2/\text{NDF}: 958769.8/23$

All:  $-214.889 \pm 0.014$   $\chi^2/\text{NDF}: 1997514.2/48$

- sign  $-214.910 \pm 0.021$   $\chi^2/\text{NDF}: 1038742.7/24$

# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $-4.340 \pm 0.246$   $\chi^2/\text{NDF}: 1204.6/8$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

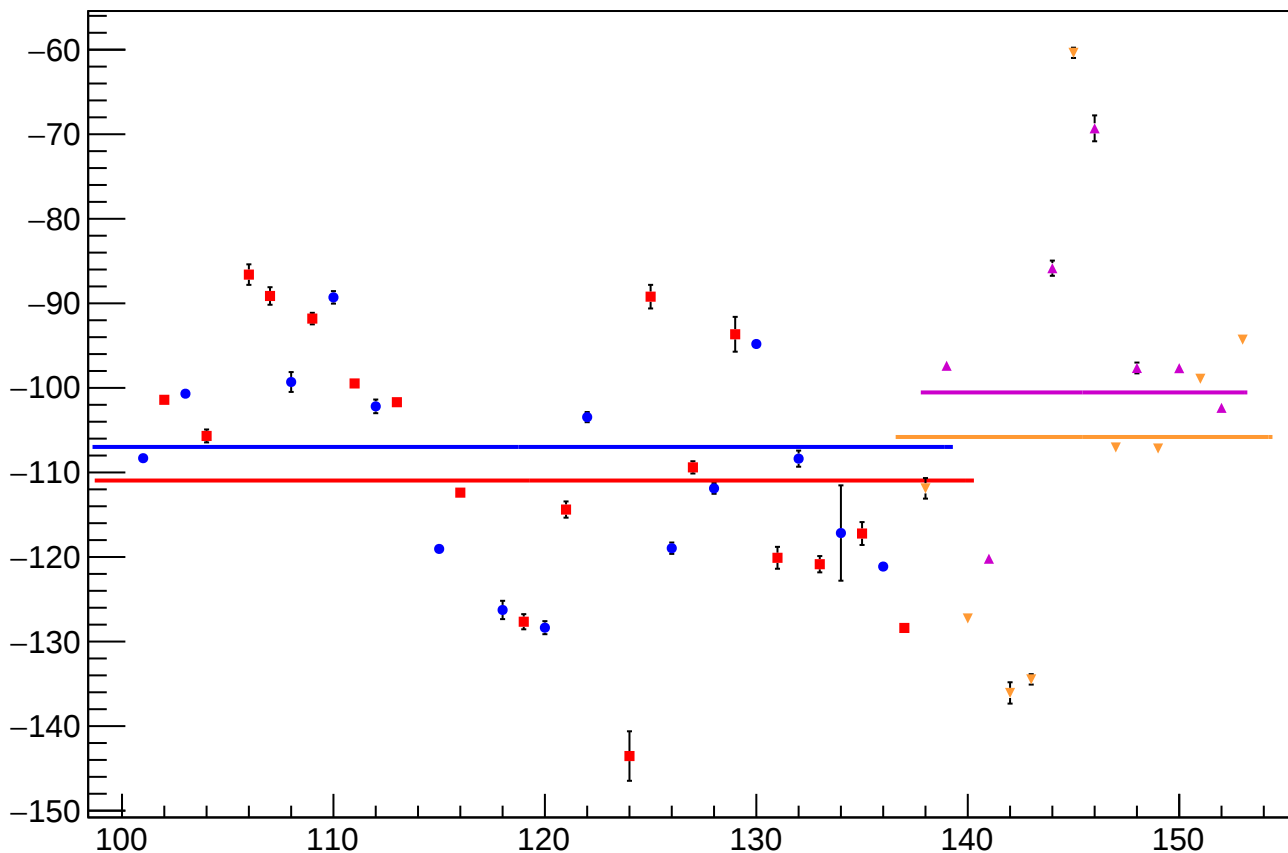
Left In:  $-11.705 \pm 0.194$   $\chi^2/\text{NDF}: 2405.1/6$

+ sign  $-9.892 \pm 0.152$   $\chi^2/\text{NDF}: 3038.3/23$

All:  $-11.312 \pm 0.082$   $\chi^2/\text{NDF}: 8054.3/48$

- sign  $-11.893 \pm 0.097$   $\chi^2/\text{NDF}: 4893.6/24$

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}$ : 4658.3/14

Left Out:  $-105.805 \pm 0.194$   $\chi^2/\text{NDF}$ : 10960.0/8

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}$ : 10675.0/17

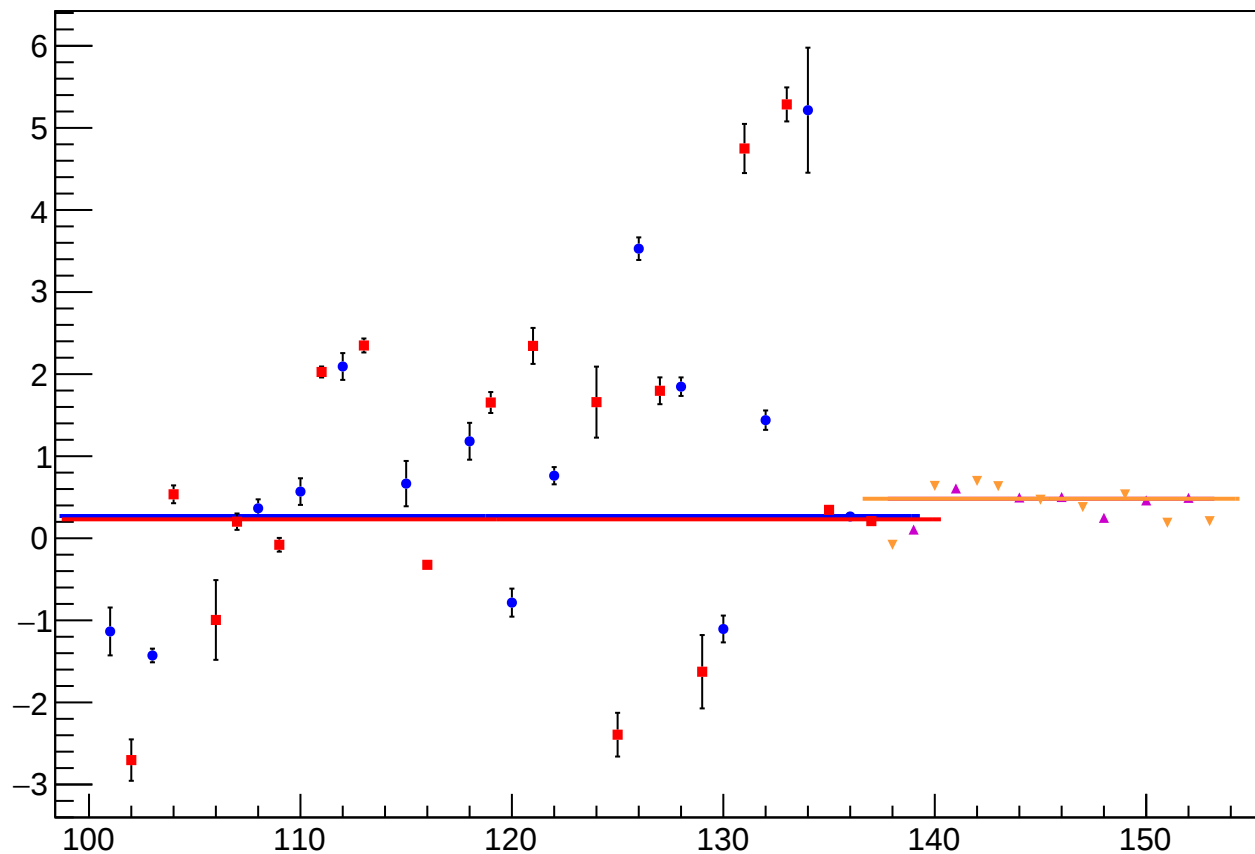
Left In:  $-100.536 \pm 0.164$   $\chi^2/\text{NDF}$ : 2751.8/6

+ sign  $-106.696 \pm 0.096$   $\chi^2/\text{NDF}$ : 15646.2/23

All:  $-109.388 \pm 0.043$   $\chi^2/\text{NDF}$ : 33744.2/48

- sign  $-110.065 \pm 0.048$   $\chi^2/\text{NDF}$ : 17107.2/24

# dit\_sam3\_11X12X\_slope vs Slug



Right In: 0.271+/-0.005  $\chi^2/\text{NDF}$ : 1612.2/14

Left Out: 0.482+/-0.004  $\chi^2/\text{NDF}$ : 2162.8/8

Right Out: 0.231+/-0.004  $\chi^2/\text{NDF}$ : 2907.8/17

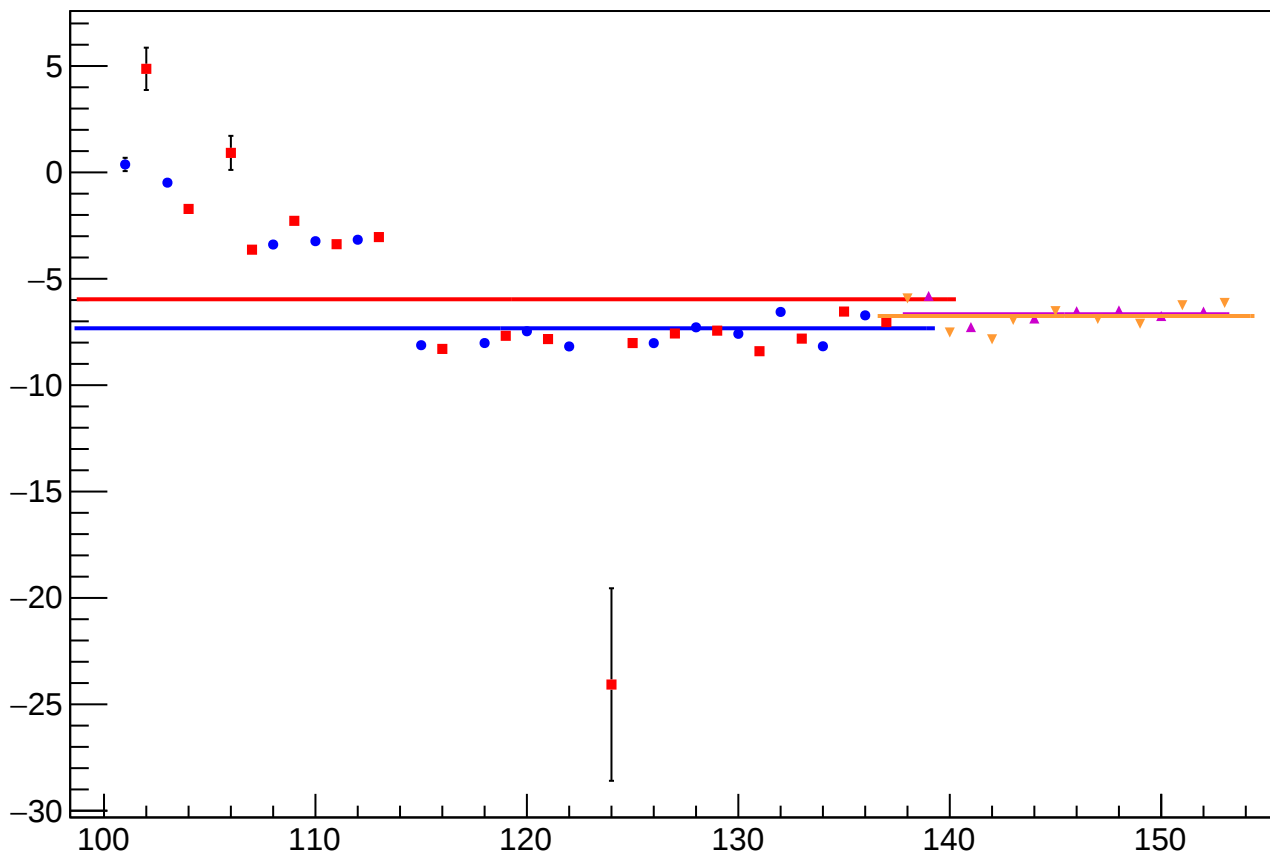
Left In: 0.481+/-0.003  $\chi^2/\text{NDF}$ : 2571.1/6

+ sign 0.407+/-0.003  $\chi^2/\text{NDF}$ : 4781.5/23

All: 0.407+/-0.002  $\chi^2/\text{NDF}$ : 12515.4/48

- sign 0.407+/-0.002  $\chi^2/\text{NDF}$ : 7734.0/24

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14

Left Out:  $-6.749 \pm 0.009$   $\chi^2/\text{NDF}$ : 2294.4/8

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17

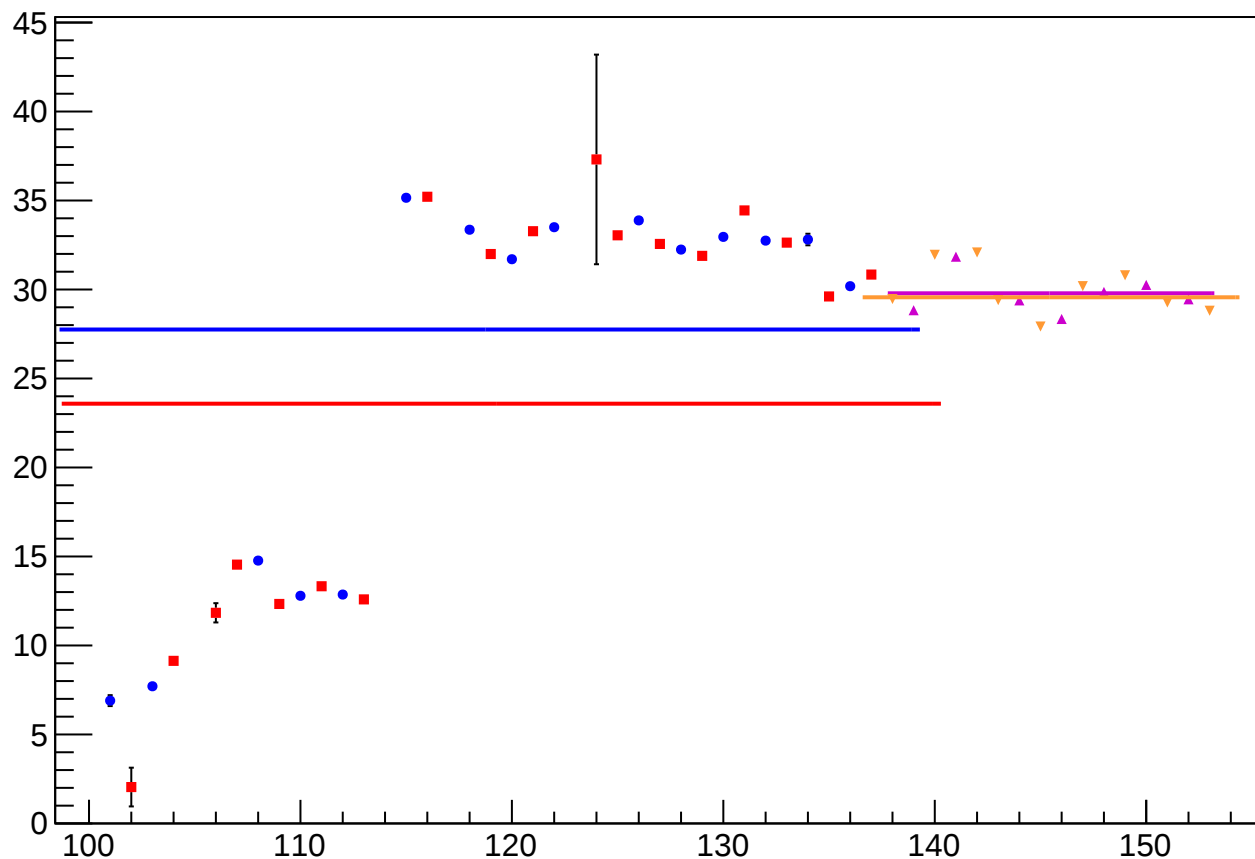
Left In:  $-6.667 \pm 0.007$   $\chi^2/\text{NDF}$ : 2806.2/6

+ sign  $-7.060 \pm 0.006$   $\chi^2/\text{NDF}$ : 34983.1/23

All:  $-6.689 \pm 0.004$   $\chi^2/\text{NDF}$ : 120075.9/48

- sign  $-6.374 \pm 0.006$   $\chi^2/\text{NDF}$ : 78362.0/24

# dit\_sam3\_4eY\_slope vs Slug



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.562 $\pm$ 0.016  $\chi^2$ /NDF: 6858.4/8

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

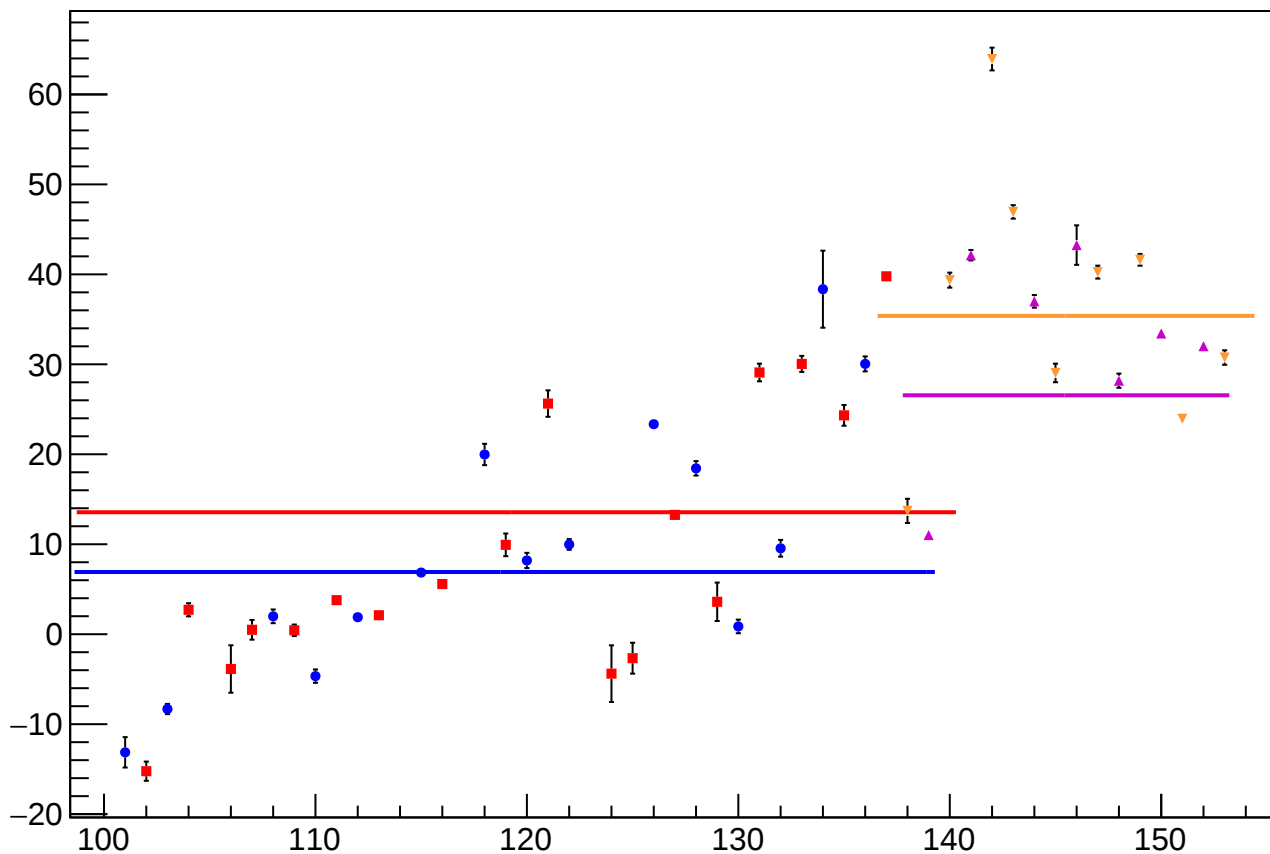
Left In: 29.787 $\pm$ 0.014  $\chi^2$ /NDF: 2036.2/6

+ sign 28.621 $\pm$ 0.011  $\chi^2$ /NDF: 346740.9/23

All: 27.492 $\pm$ 0.007  $\chi^2$ /NDF: 1006064.7/48

- sign 26.550 $\pm$ 0.010  $\chi^2$ /NDF: 639446.1/24

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $35.387 \pm 0.259$   $\chi^2/\text{NDF}: 1727.0/8$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

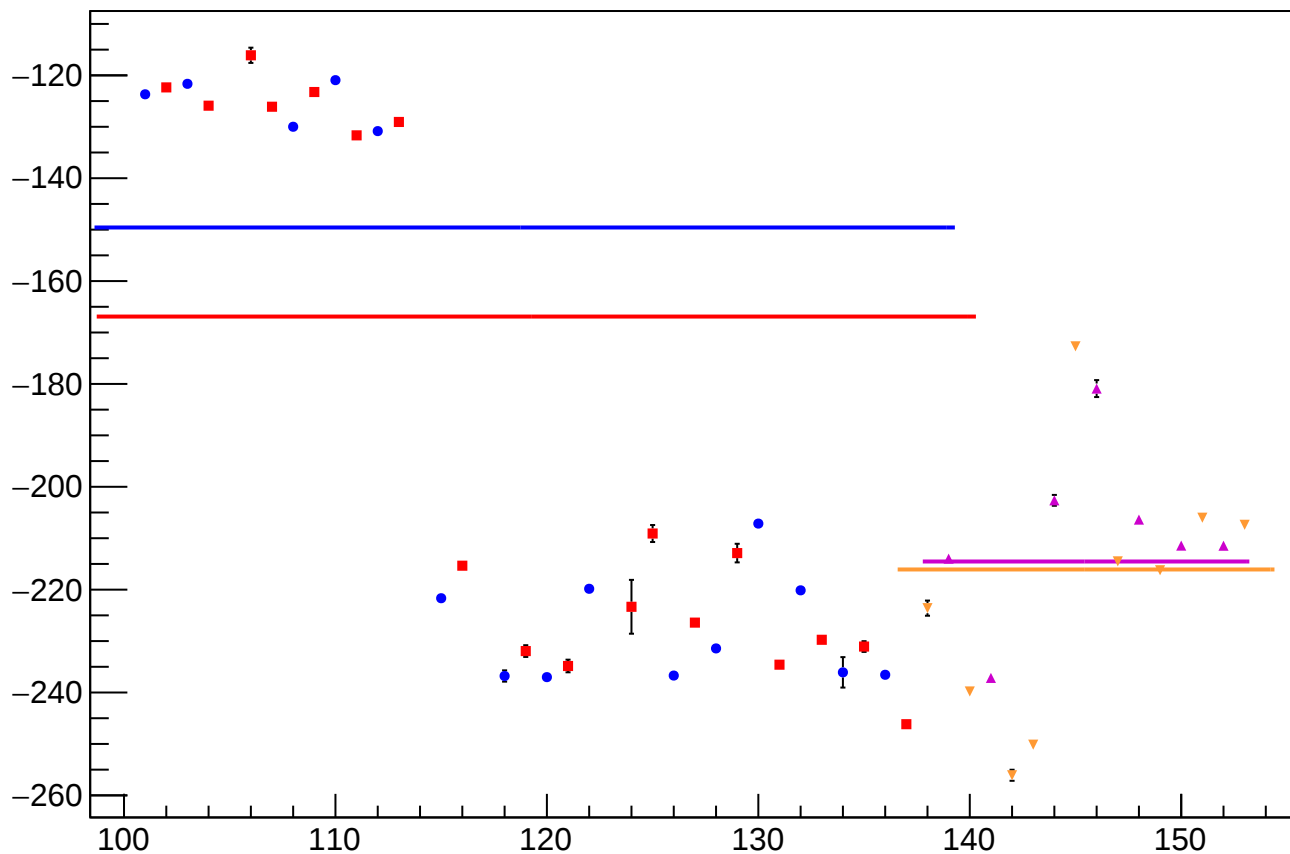
Left In:  $26.558 \pm 0.188$   $\chi^2/\text{NDF}: 3820.6/6$

+ sign  $15.932 \pm 0.146$   $\chi^2/\text{NDF}: 13465.8/23$

All:  $17.464 \pm 0.090$   $\chi^2/\text{NDF}: 32121.6/48$

- sign  $18.412 \pm 0.115$   $\chi^2/\text{NDF}: 18477.5/24$

# dit\_sam4\_4eX\_slope vs Slug



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}$ : 195091.5/14

Left Out:  $-216.077 \pm 0.210$   $\chi^2/\text{NDF}$ : 9893.1/8

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}$ : 295489.9/17

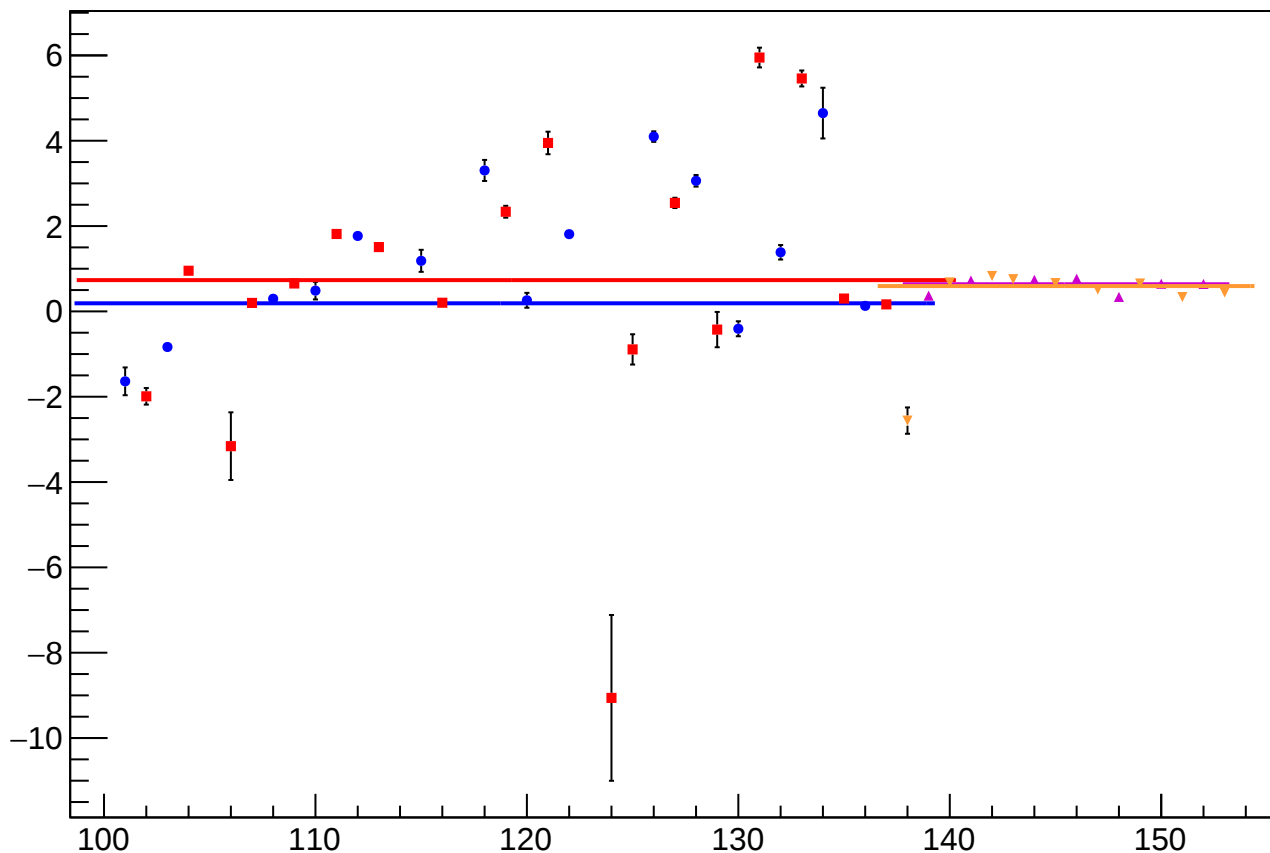
Left In:  $-214.526 \pm 0.158$   $\chi^2/\text{NDF}$ : 3385.9/6

+ sign  $-162.083 \pm 0.091$   $\chi^2/\text{NDF}$ : 286694.1/23

All:  $-172.021 \pm 0.062$   $\chi^2/\text{NDF}$ : 672764.6/48

- sign  $-180.673 \pm 0.085$   $\chi^2/\text{NDF}$ : 363709.3/24

# dit\_sam4\_11X12X\_slope vs Slug



Right In: 0.190 $\pm$ 0.009  $\chi^2$ /NDF: 2727.5/14

Left Out: 0.593 $\pm$ 0.005  $\chi^2$ /NDF: 1168.2/8

Right Out: 0.733 $\pm$ 0.020  $\chi^2$ /NDF: 2666.9/17

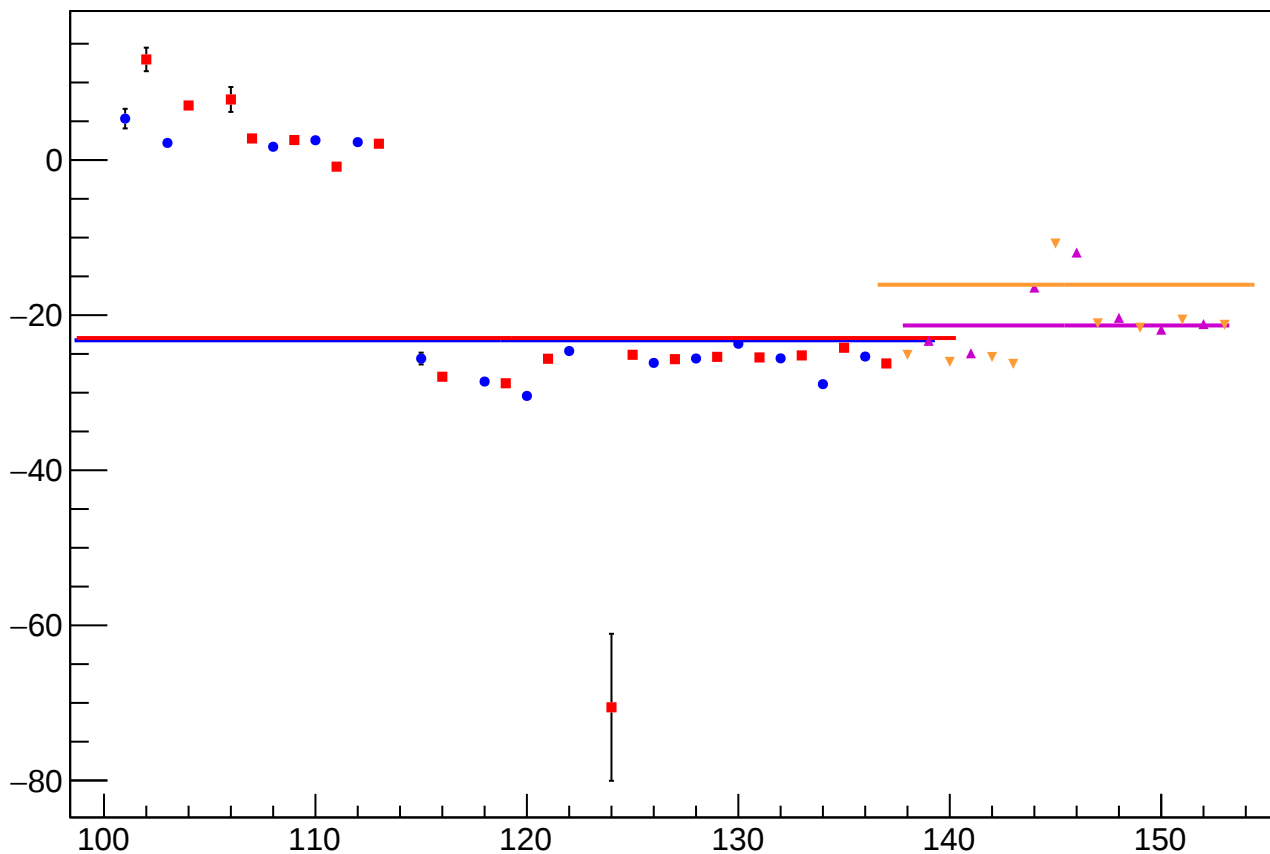
Left In: 0.636 $\pm$ 0.004  $\chi^2$ /NDF: 1026.7/6

+ sign 0.502 $\pm$ 0.004  $\chi^2$ /NDF: 5597.4/23

All: 0.580 $\pm$ 0.003  $\chi^2$ /NDF: 9947.5/48

- sign 0.639 $\pm$ 0.004  $\chi^2$ /NDF: 3716.8/24

# dit\_sam4\_4aY\_slope vs Slug



Right In: -23.241±/-0.025  $\chi^2/\text{NDF}$ : 103102.8/14

Left Out: -16.078±/-0.020  $\chi^2/\text{NDF}$ :102493.6/8

Right Out: -22.951±/-0.025  $\chi^2/\text{NDF}$ : 108039.1/17

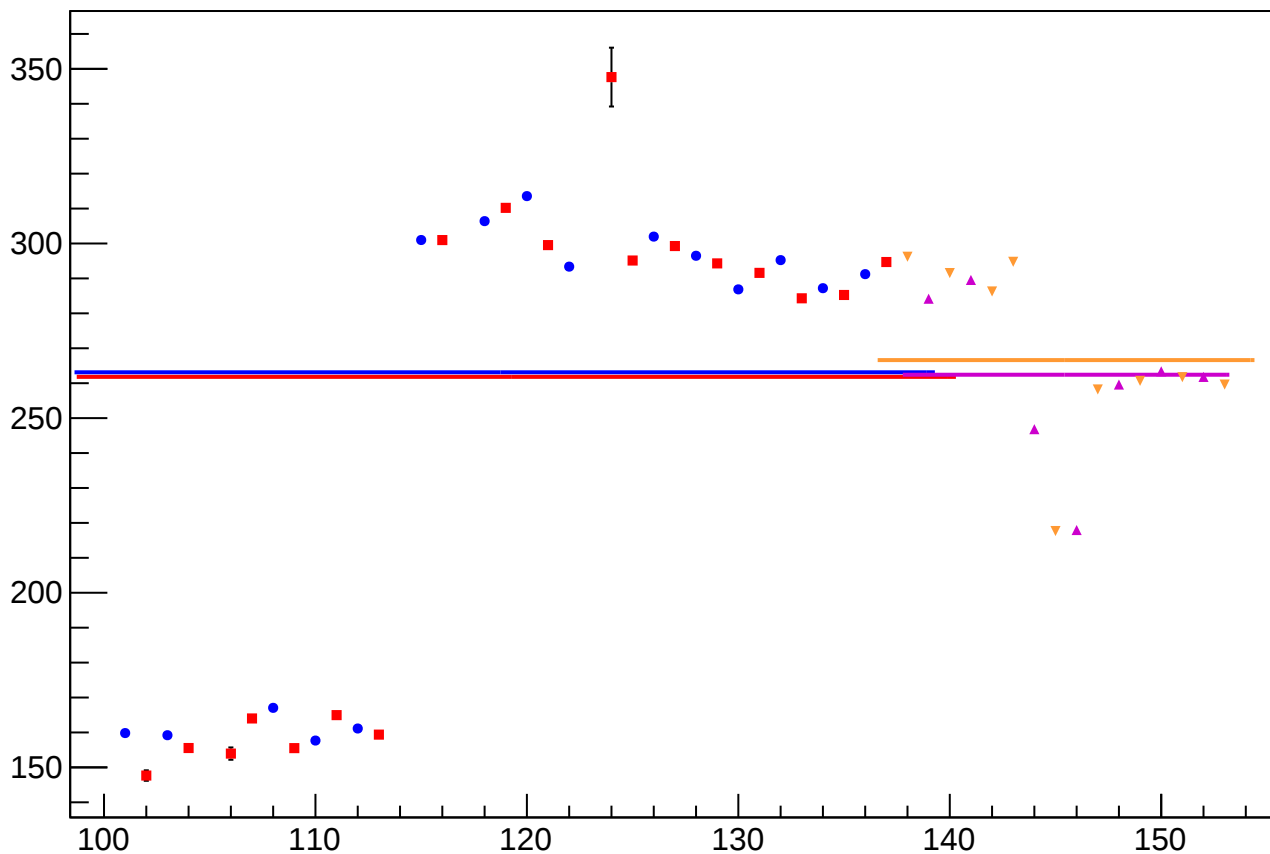
Left In: -21.329±/-0.025  $\chi^2/\text{NDF}$ :8007.0/6

+ sign -18.823±/-0.015  $\chi^2/\text{NDF}$ : 257197.9/23

All: -20.261±/-0.012  $\chi^2/\text{NDF}$ : 395725.1/48

- sign -22.151±/-0.018  $\chi^2/\text{NDF}$ : 118174.6/24

# dit\_sam4\_4eY\_slope vs Slug



Right In: 263.120 $\pm$ 0.069  $\chi^2$ /NDF: 692885.4/14

Left Out: 266.614 $\pm$ 0.051  $\chi^2$ /NDF:185356.5/8

Right Out: 261.814 $\pm$ 0.060  $\chi^2$ /NDF: 1006189.6/17

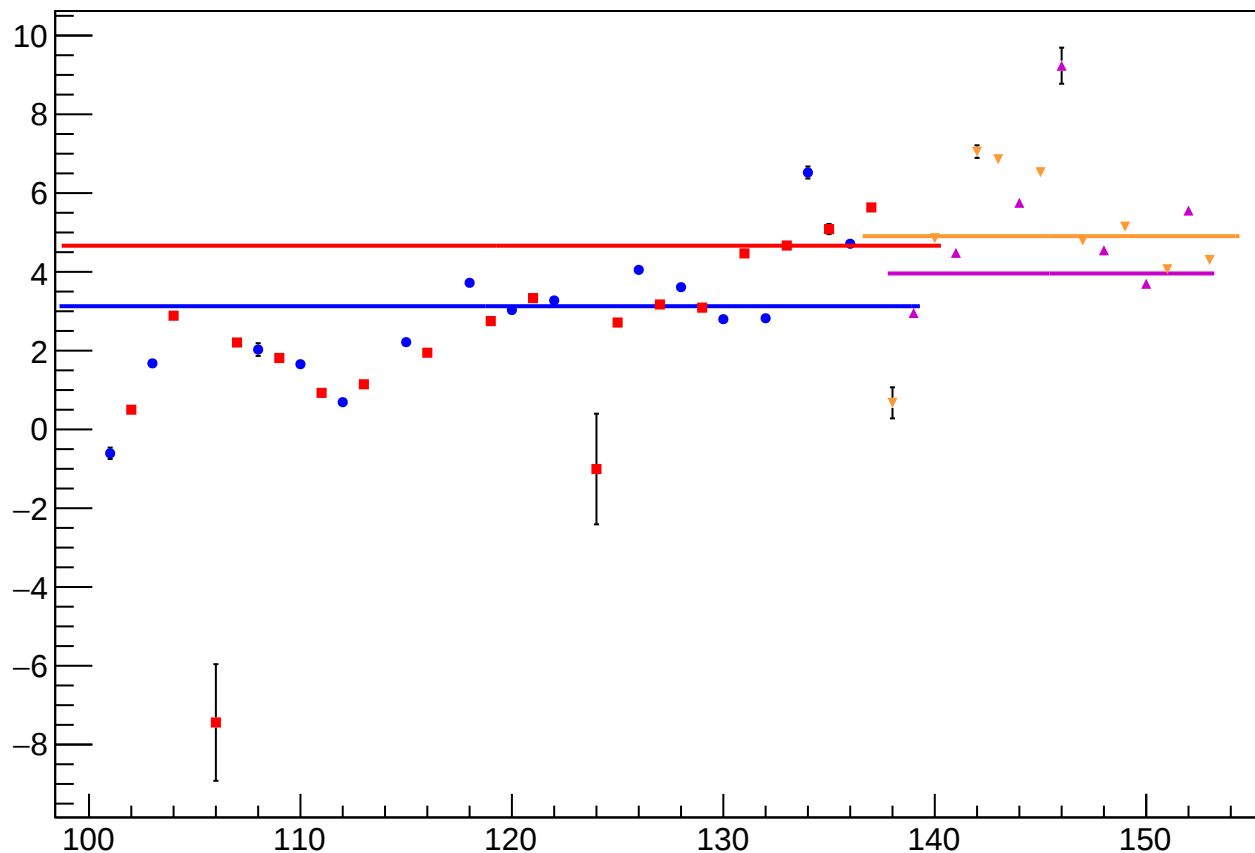
Left In: 262.422 $\pm$ 0.046  $\chi^2$ /NDF:34937.9/6

+ sign 265.375 $\pm$ 0.041  $\chi^2$ /NDF: 879892.7/23

All: 263.596 $\pm$ 0.027  $\chi^2$ /NDF: 1924421.3/48

- sign 262.201 $\pm$ 0.036  $\chi^2$ /NDF: 1041192.0/24

# dit\_sam5\_4aX\_slope vs Slug



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}$ : 5667.8/14

Left Out:  $4.907 \pm 0.019$   $\chi^2/\text{NDF}$ : 1465.0/8

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}$ : 66862.5/17

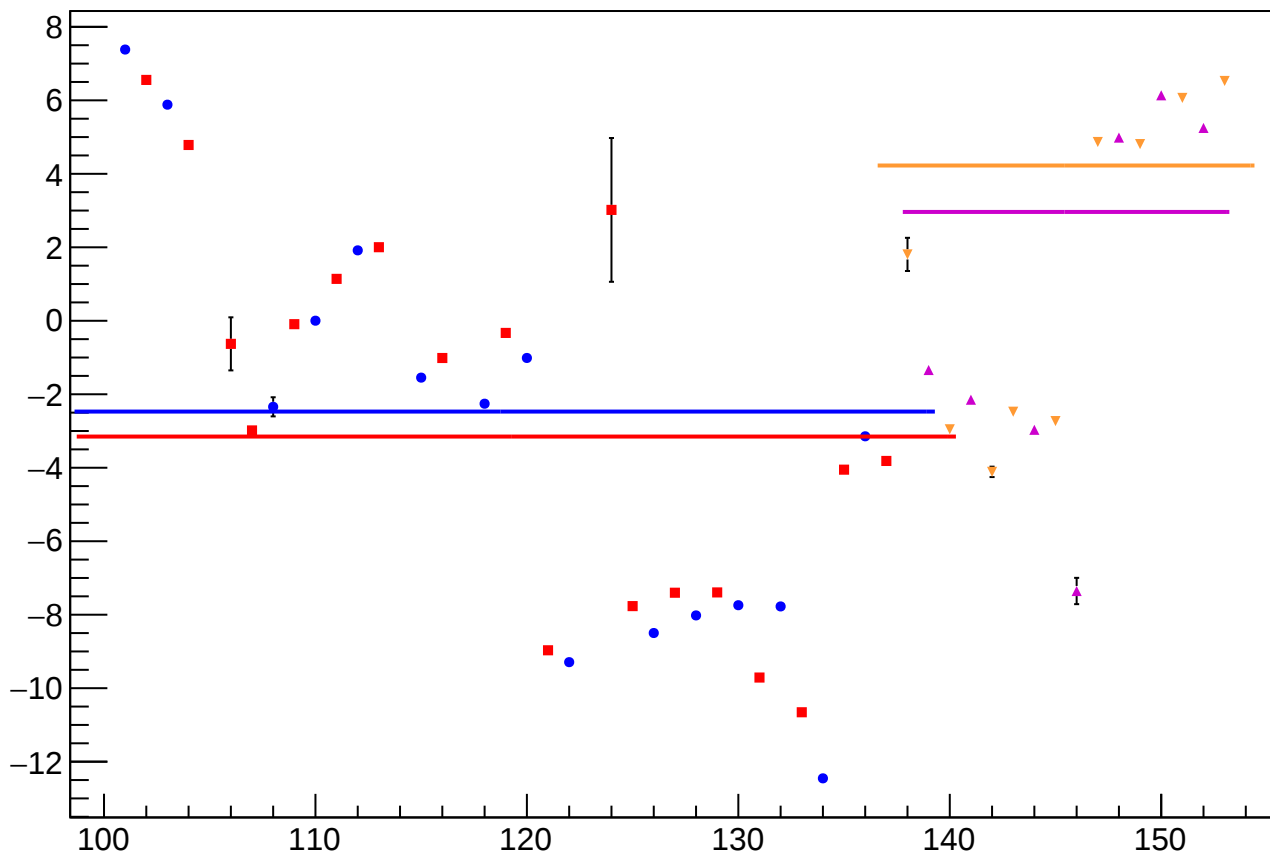
Left In:  $3.960 \pm 0.020$   $\chi^2/\text{NDF}$ : 2002.5/6

+ sign  $3.860 \pm 0.012$   $\chi^2/\text{NDF}$ : 12372.5/23

All:  $4.450 \pm 0.005$   $\chi^2/\text{NDF}$ : 85379.7/48

- sign  $4.598 \pm 0.006$   $\chi^2/\text{NDF}$ : 70024.6/24

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $4.226 \pm 0.015$   $\chi^2/\text{NDF}: 34992.8/8$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

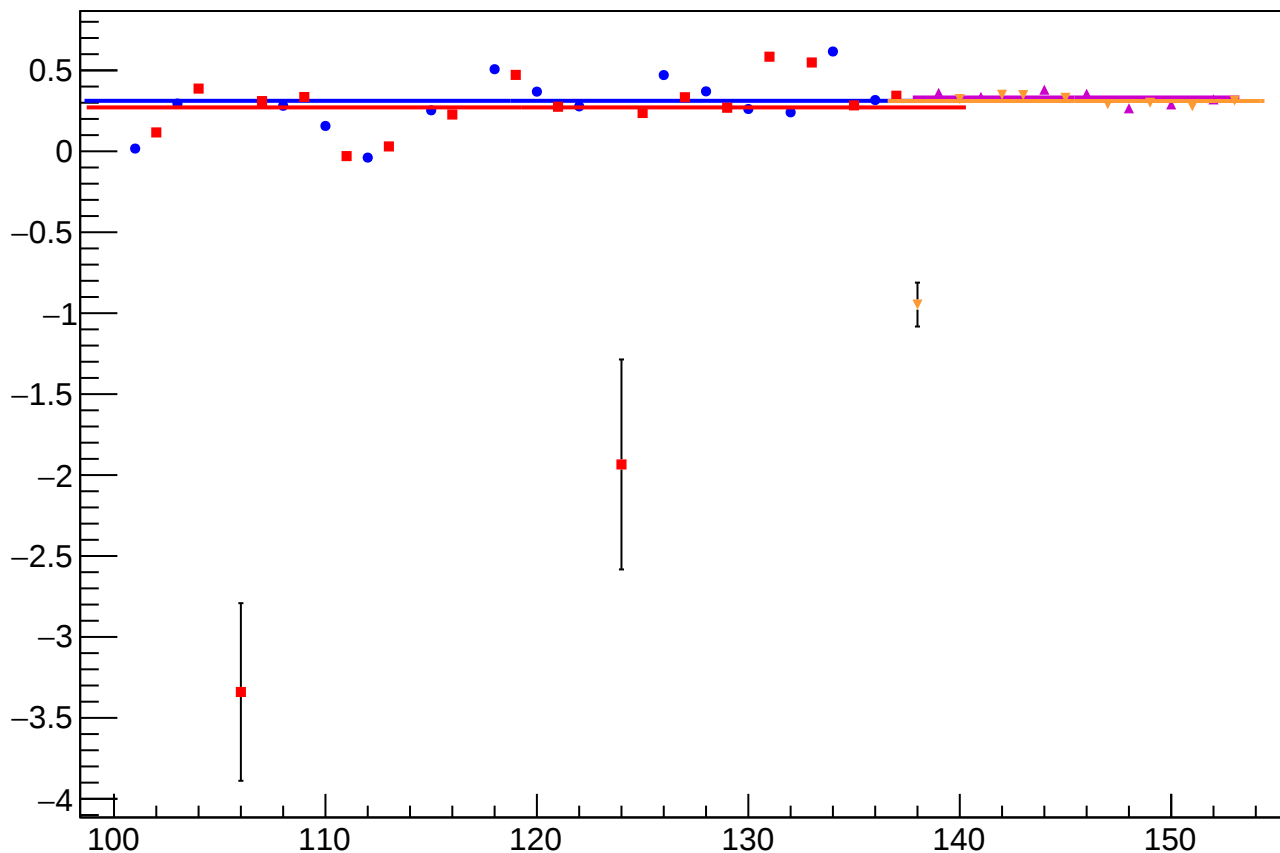
Left In:  $2.962 \pm 0.017$   $\chi^2/\text{NDF}: 49106.3/6$

+ sign  $0.590 \pm 0.010$   $\chi^2/\text{NDF}: 380606.1/23$

All:  $-1.364 \pm 0.006$   $\chi^2/\text{NDF}: 832001.6/48$

- sign  $-2.209 \pm 0.007$   $\chi^2/\text{NDF}: 400786.3/24$

# dit\_sam5\_11X12X\_slope vs Slug



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}: 1319.2/14$

Left Out:  $0.311 \pm 0.001$   $\chi^2/\text{NDF}: 747.8/8$

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}: 6144.7/17$

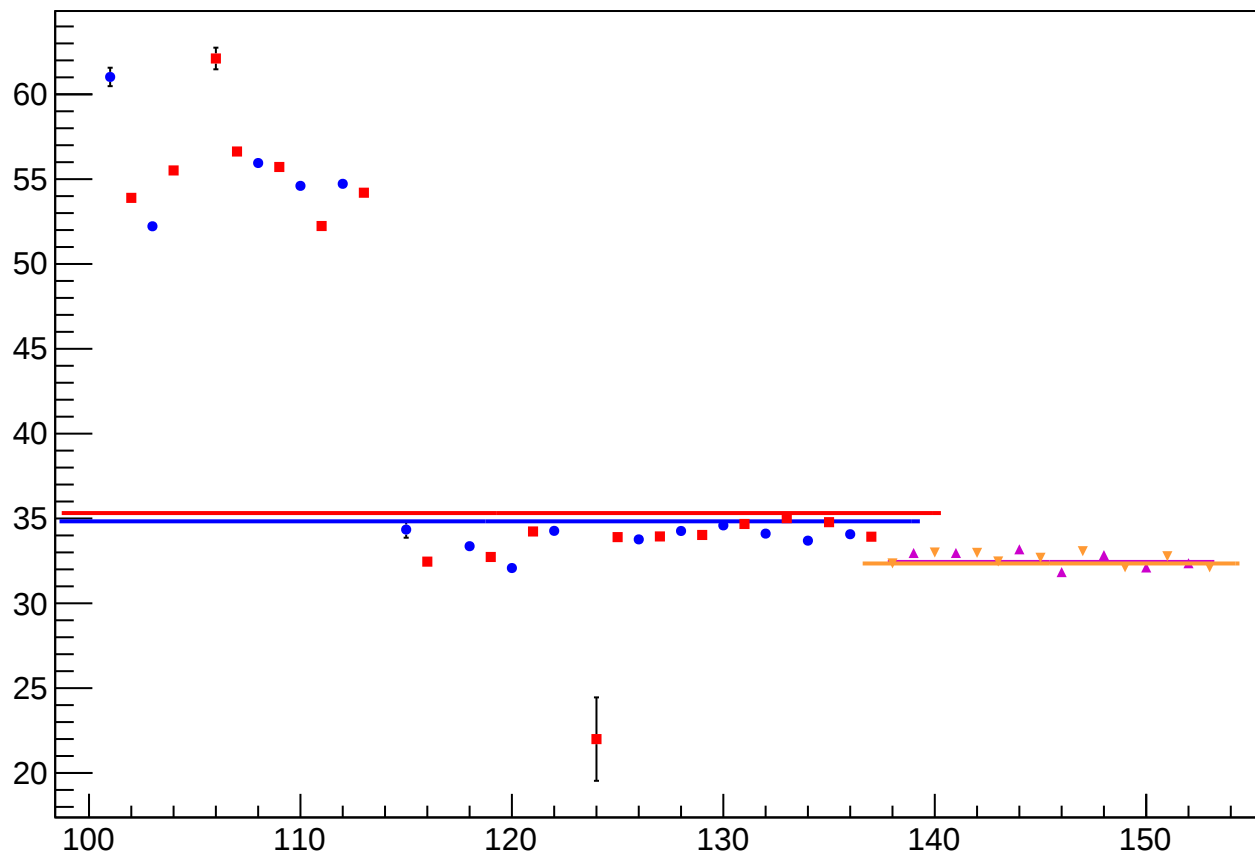
Left In:  $0.333 \pm 0.001$   $\chi^2/\text{NDF}: 1926.3/6$

+ sign  $0.311 \pm 0.001$   $\chi^2/\text{NDF}: 2067.4/23$

All:  $0.316 \pm 0.001$   $\chi^2/\text{NDF}: 10947.0/48$

- sign  $0.323 \pm 0.001$   $\chi^2/\text{NDF}: 8777.5/24$

# dit\_sam5\_4aY\_slope vs Slug



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 32.347 $\pm$ 0.006  $\chi^2$ /NDF:2320.8/8

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

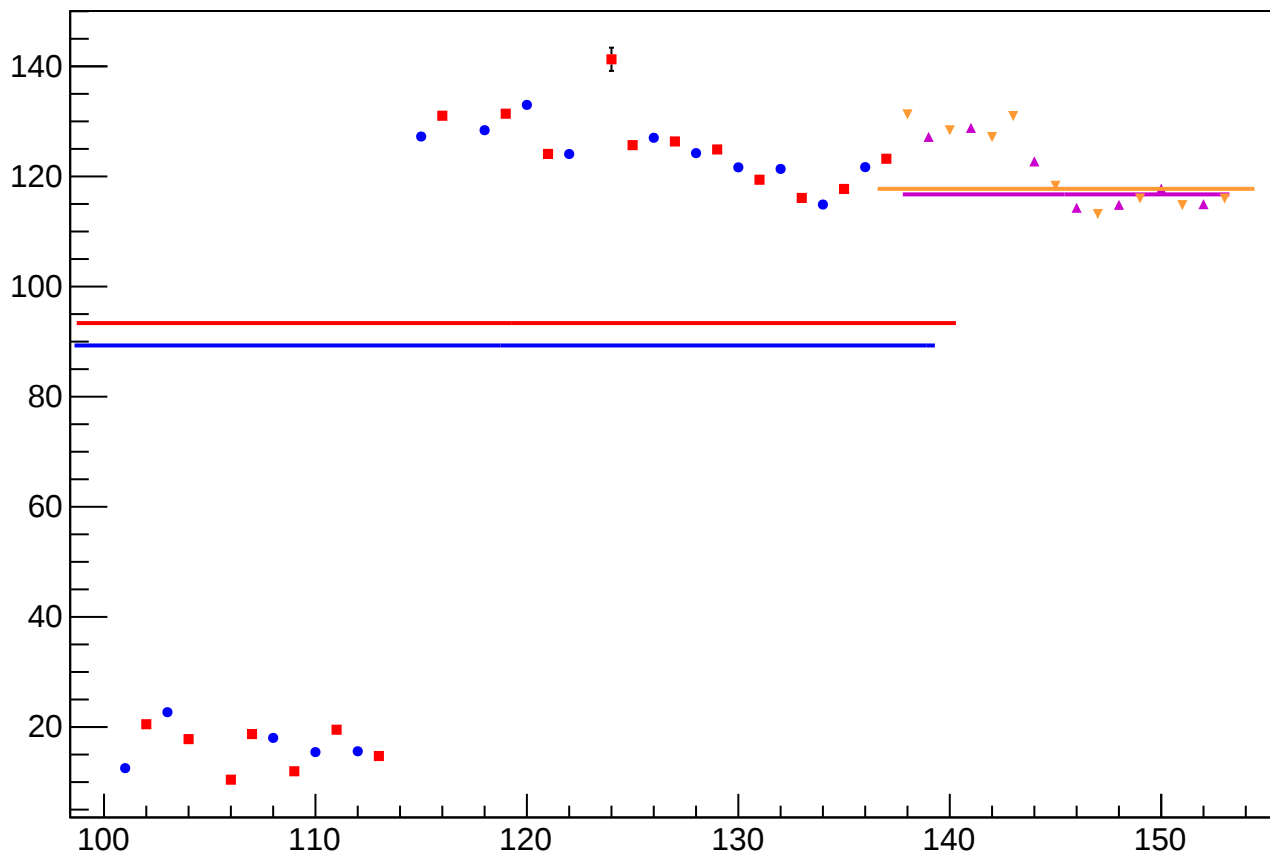
Left In: 32.438 $\pm$ 0.008  $\chi^2$ /NDF:2647.0/6

+ sign 33.236 $\pm$ 0.005  $\chi^2$ /NDF: 301238.4/23

All: 33.363 $\pm$ 0.004  $\chi^2$ /NDF: 618462.4/48

- sign 33.544 $\pm$ 0.006  $\chi^2$ /NDF: 315753.8/24

# dit\_sam5\_4eY\_slope vs Slug



Right In: 89.302 $\pm$ 0.027  $\chi^2$ /NDF: 3034485.1/14

Left Out: 117.746 $\pm$ 0.015  $\chi^2$ /NDF: 110479.3/8

Right Out: 93.367 $\pm$ 0.030  $\chi^2$ /NDF: 2852493.6/17

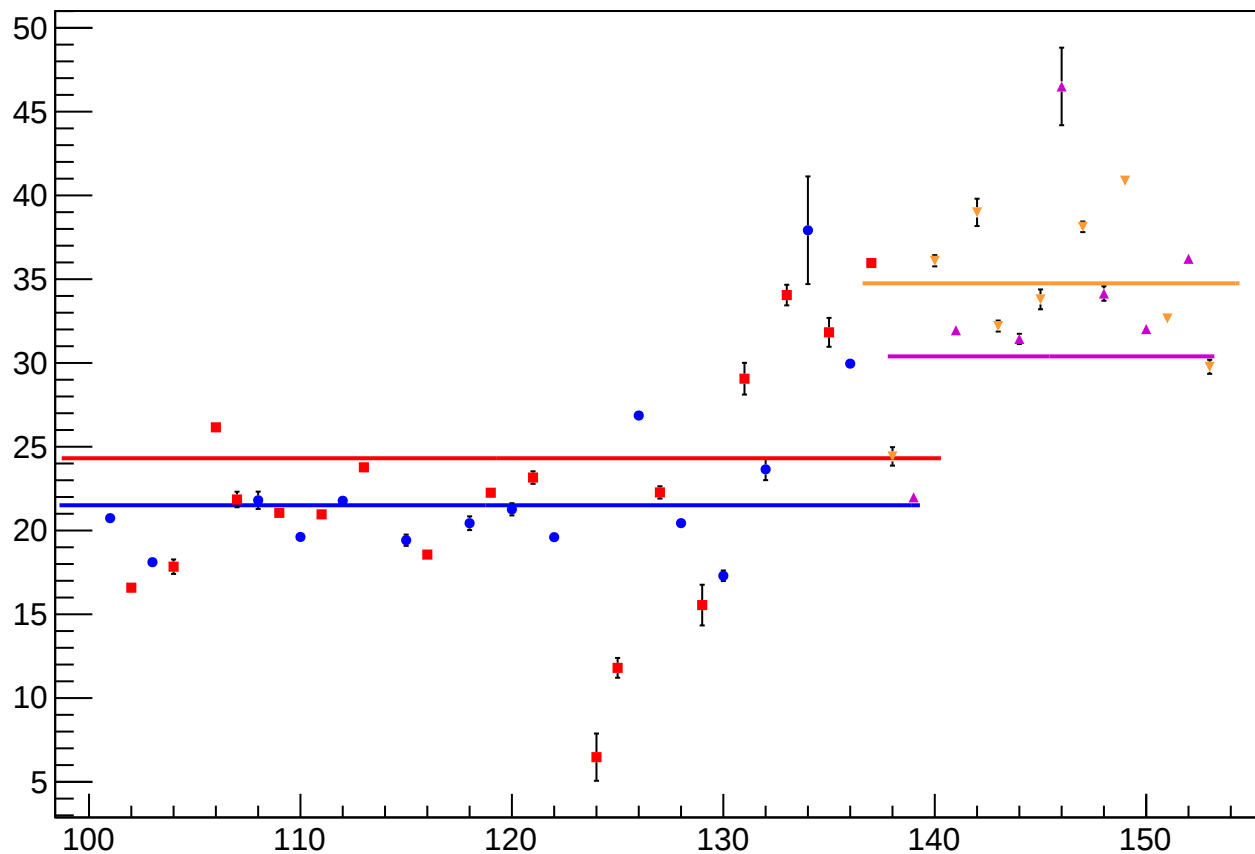
Left In: 116.741 $\pm$ 0.017  $\chi^2$ /NDF: 38325.0/6

+ sign 111.390 $\pm$ 0.013  $\chi^2$ /NDF: 3979496.9/23

All: 111.276 $\pm$ 0.010  $\chi^2$ /NDF: 7333631.4/48

- sign 111.131 $\pm$ 0.015  $\chi^2$ /NDF: 3353959.0/24

# dit\_sam6\_4aX\_slope vs Slug



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}: 2963.0/14$

Left Out:  $34.753 \pm 0.121$   $\chi^2/\text{NDF}: 1205.9/8$

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}: 14295.4/17$

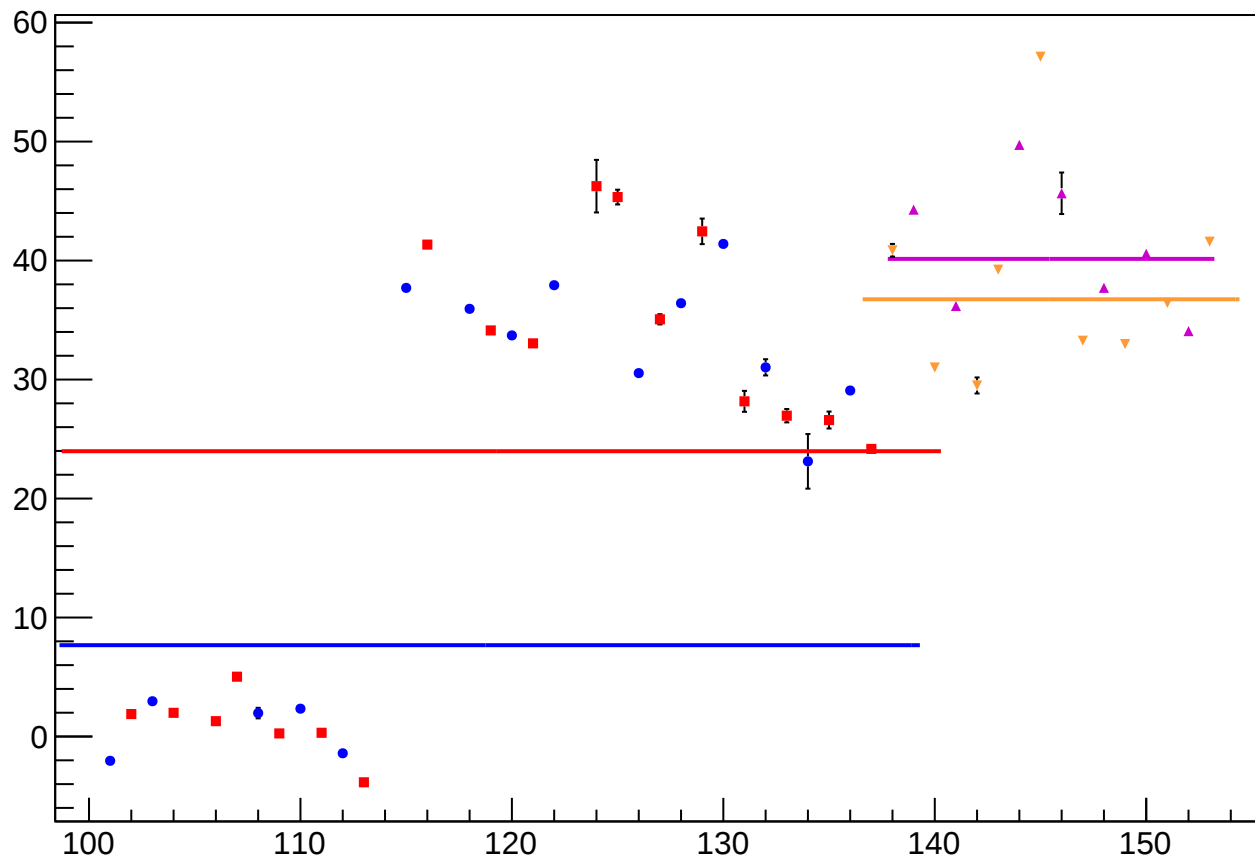
Left In:  $30.393 \pm 0.100$   $\chi^2/\text{NDF}: 2401.2/6$

+ sign  $25.002 \pm 0.062$   $\chi^2/\text{NDF}: 13019.9/23$

All:  $25.526 \pm 0.039$   $\chi^2/\text{NDF}: 32604.5/48$

- sign  $25.871 \pm 0.050$   $\chi^2/\text{NDF}: 19466.3/24$

# dit\_sam6\_4eX\_slope vs Slug



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}: 96442.5/14$

Left Out:  $36.746 \pm 0.099$   $\chi^2/\text{NDF}: 3668.5/8$

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}: 110564.0/17$

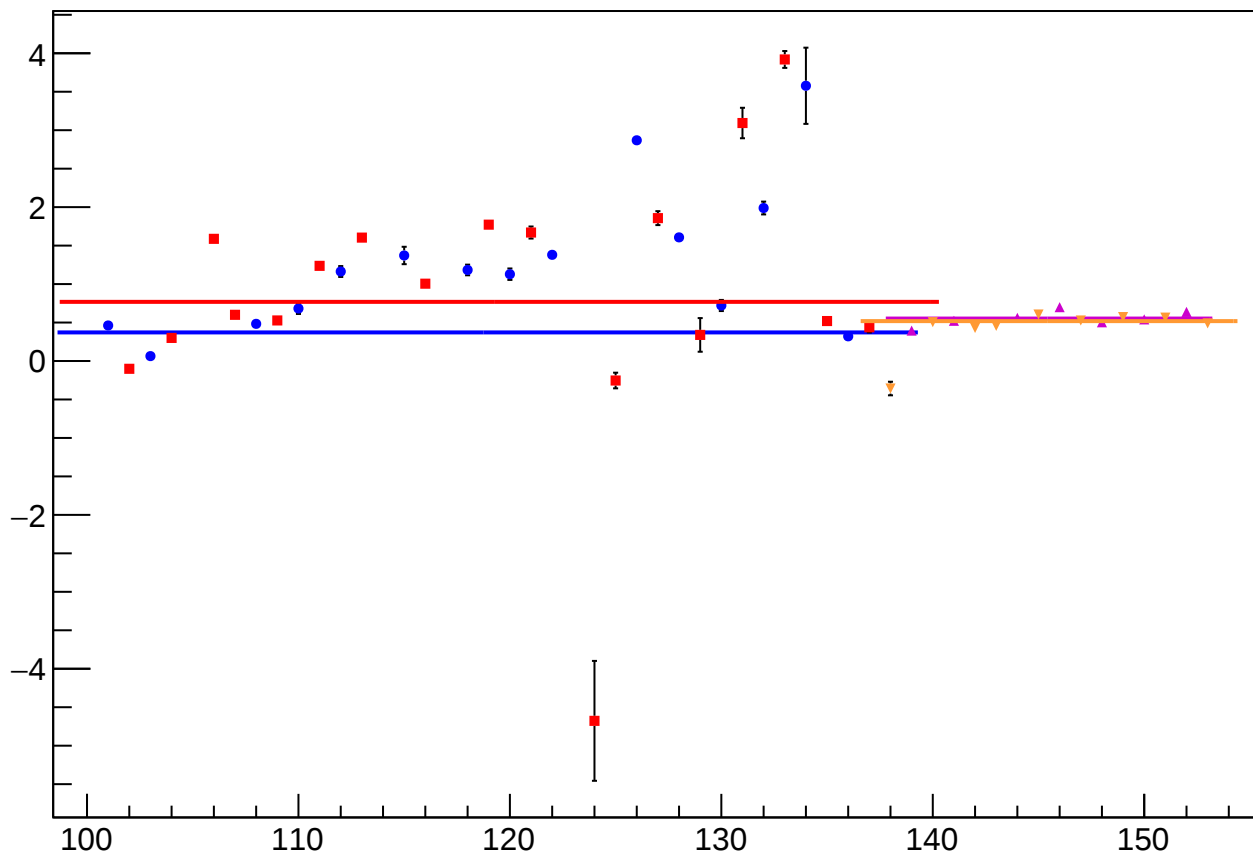
Left In:  $40.141 \pm 0.083$   $\chi^2/\text{NDF}: 2345.7/6$

+ sign  $12.734 \pm 0.041$   $\chi^2/\text{NDF}: 171992.7/23$

All:  $23.704 \pm 0.008$   $\chi^2/\text{NDF}: 396680.1/48$

- sign  $24.134 \pm 0.008$   $\chi^2/\text{NDF}: 150703.9/24$

# dit\_sam6\_11X12X\_slope vs Slug



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}: 4748.7/14$

Left Out:  $0.518 \pm 0.002$   $\chi^2/\text{NDF}: 703.5/8$

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}: 4137.5/17$

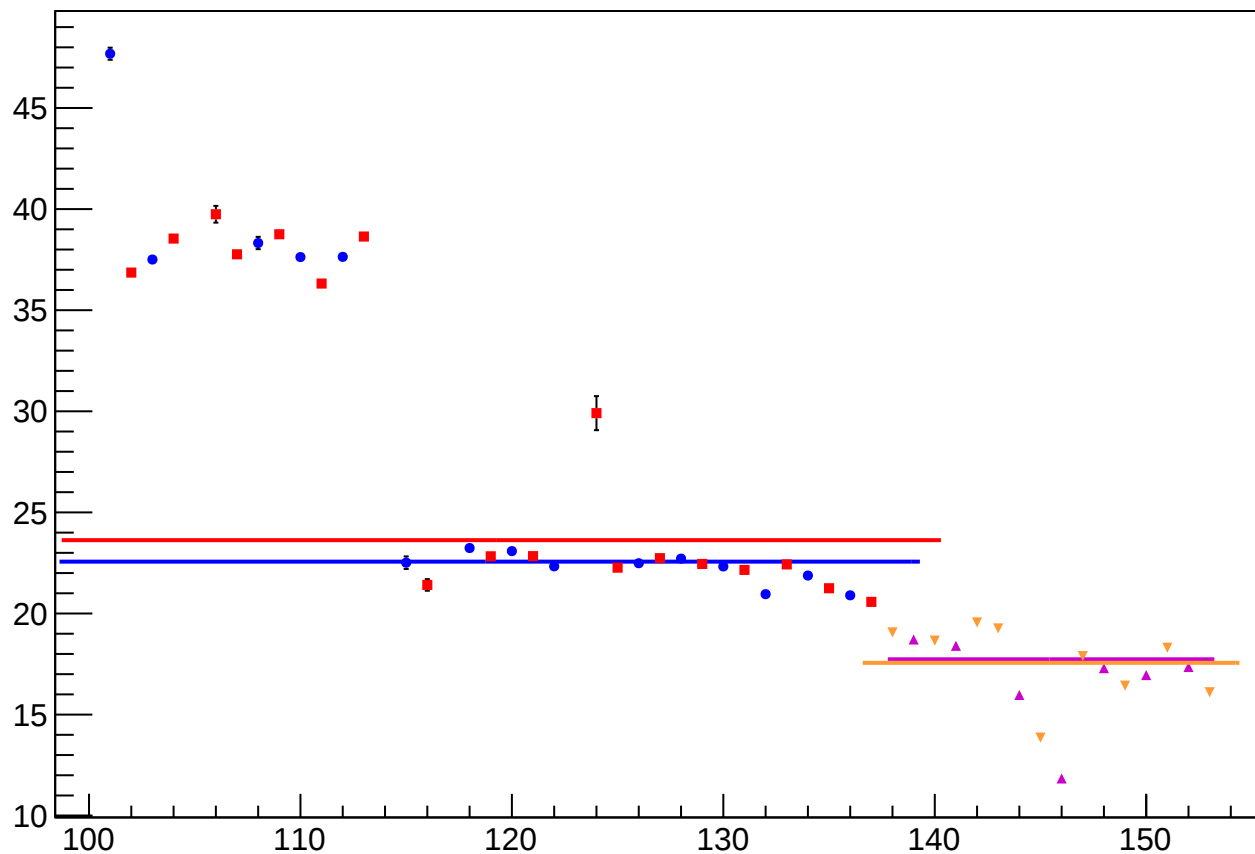
Left In:  $0.552 \pm 0.002$   $\chi^2/\text{NDF}: 1884.3/6$

+ sign  $0.496 \pm 0.002$   $\chi^2/\text{NDF}: 6413.2/23$

All:  $0.531 \pm 0.001$   $\chi^2/\text{NDF}: 14173.2/48$

- sign  $0.565 \pm 0.002$   $\chi^2/\text{NDF}: 6943.9/24$

# dit\_sam6\_4aY\_slope vs Slug



Right In: 22.565 $\pm$ 0.010  $\chi^2$ /NDF: 92859.1/14

Left Out: 17.562 $\pm$ 0.009  $\chi^2$ /NDF: 40580.4/8

Right Out: 23.627 $\pm$ 0.011  $\chi^2$ /NDF: 123194.1/17

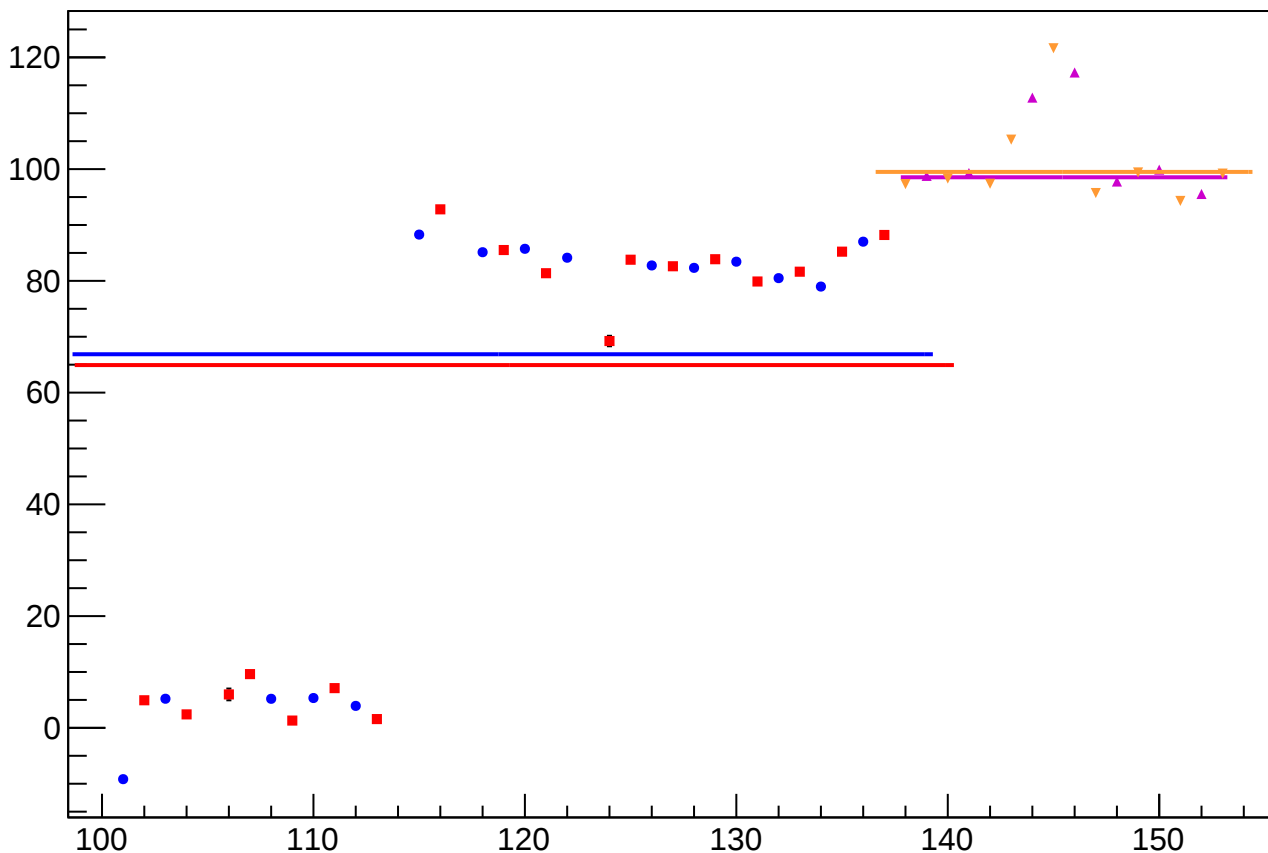
Left In: 17.735 $\pm$ 0.014  $\chi^2$ /NDF: 5746.5/6

+ sign 19.881 $\pm$ 0.007  $\chi^2$ /NDF: 263197.3/23

All: 20.414 $\pm$ 0.005  $\chi^2$ /NDF: 518559.8/48

- sign 21.251 $\pm$ 0.009  $\chi^2$ /NDF: 240115.1/24

# dit\_sam6\_4eY\_slope vs Slug



Right In: 66.866+/-0.027  $\chi^2$ /NDF: 1494212.3/14

Left Out: 99.502+/-0.016  $\chi^2$ /NDF:68233.7/8

Right Out: 64.929+/-0.030  $\chi^2$ /NDF: 1334580.7/17

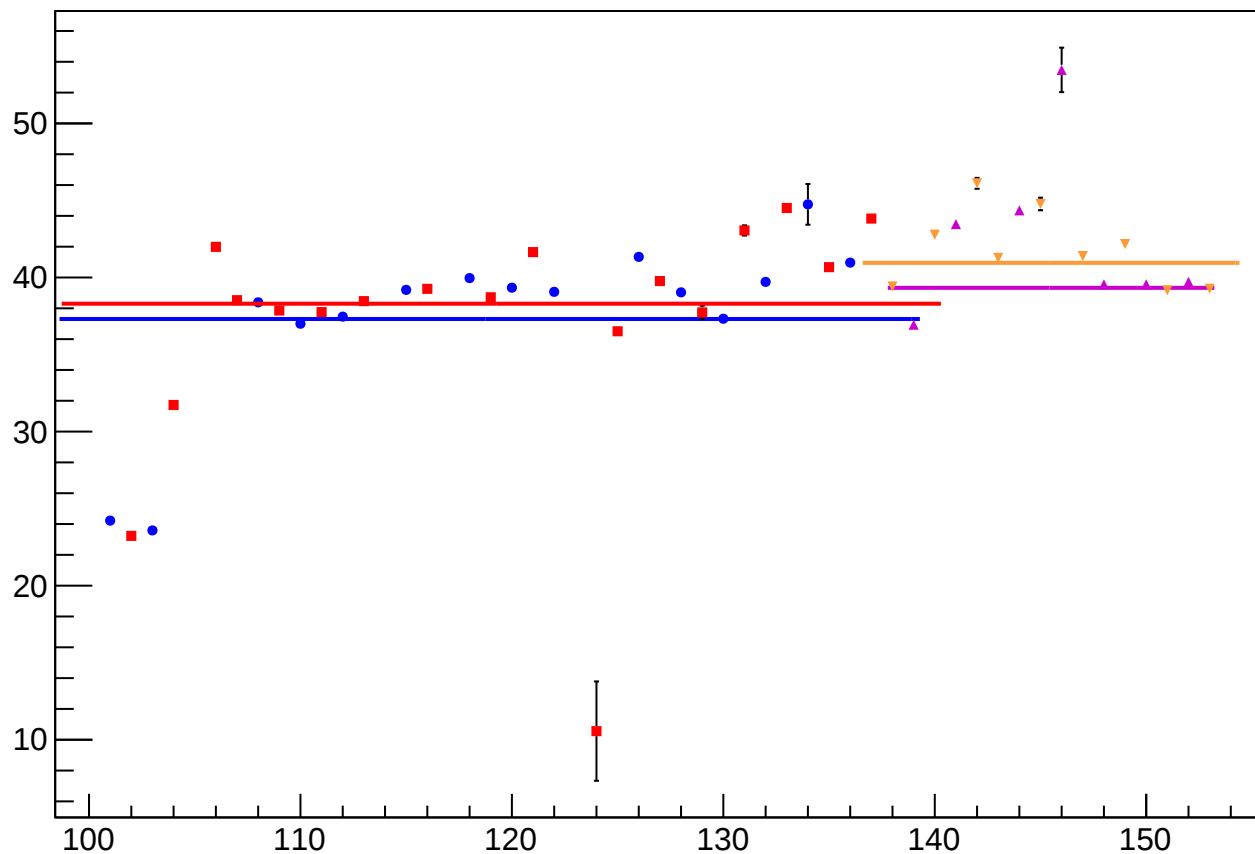
Left In: 98.538+/-0.019  $\chi^2$ /NDF:13498.4/6

+ sign 90.685+/-0.014  $\chi^2$ /NDF: 2624036.0/23

All: 89.975+/-0.010  $\chi^2$ /NDF: 4896421.5/48

- sign 89.082+/-0.016  $\chi^2$ /NDF: 2266628.0/24

# dit\_sam7\_4aX\_slope vs Slug



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $40.952 \pm 0.049$   $\chi^2/\text{NDF}: 1025.1/8$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

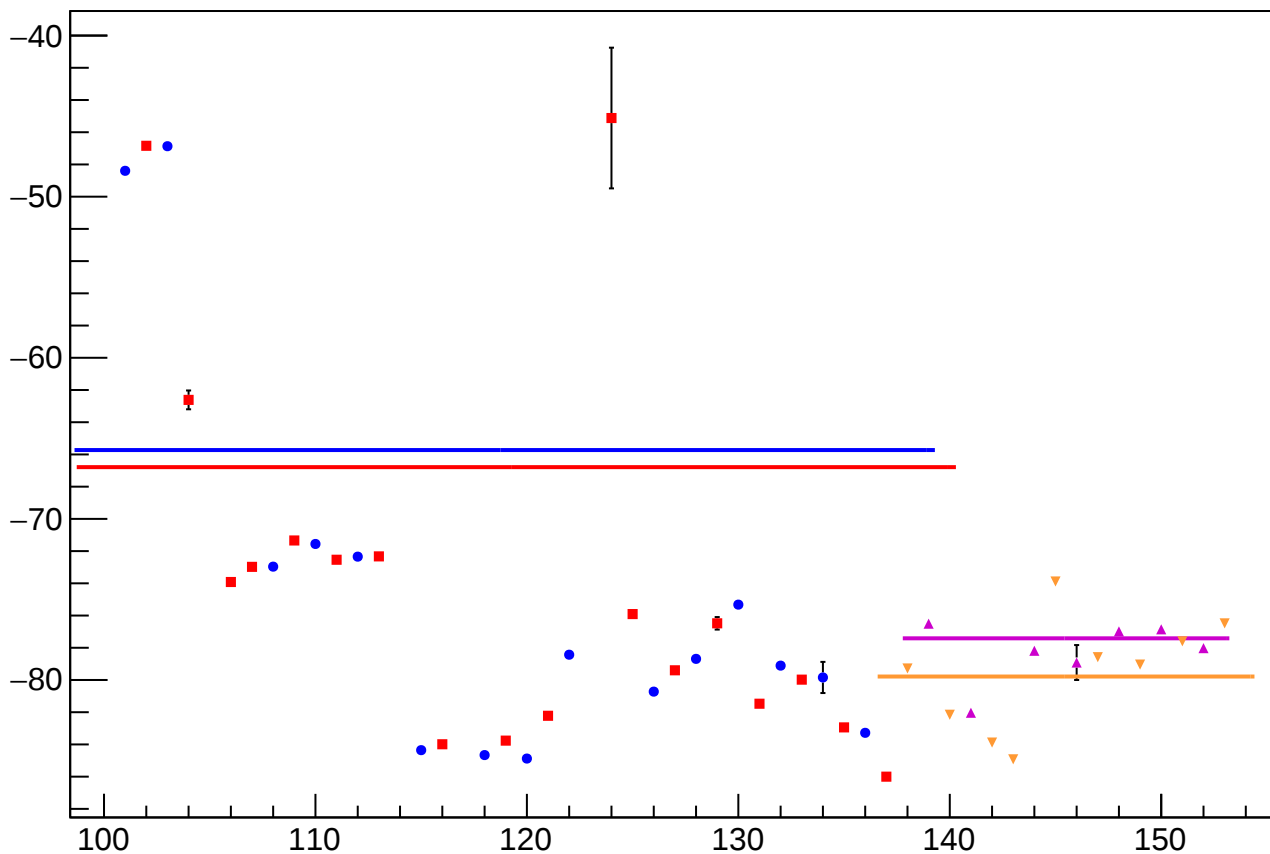
Left In:  $39.329 \pm 0.038$   $\chi^2/\text{NDF}: 3075.8/6$

+ sign  $37.976 \pm 0.021$   $\chi^2/\text{NDF}: 65175.2/23$

All:  $38.291 \pm 0.014$   $\chi^2/\text{NDF}: 88048.9/48$

- sign  $38.528 \pm 0.018$   $\chi^2/\text{NDF}: 22474.1/24$

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-79.785 \pm 0.041$   $\chi^2/\text{NDF}: 5474.0/8$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

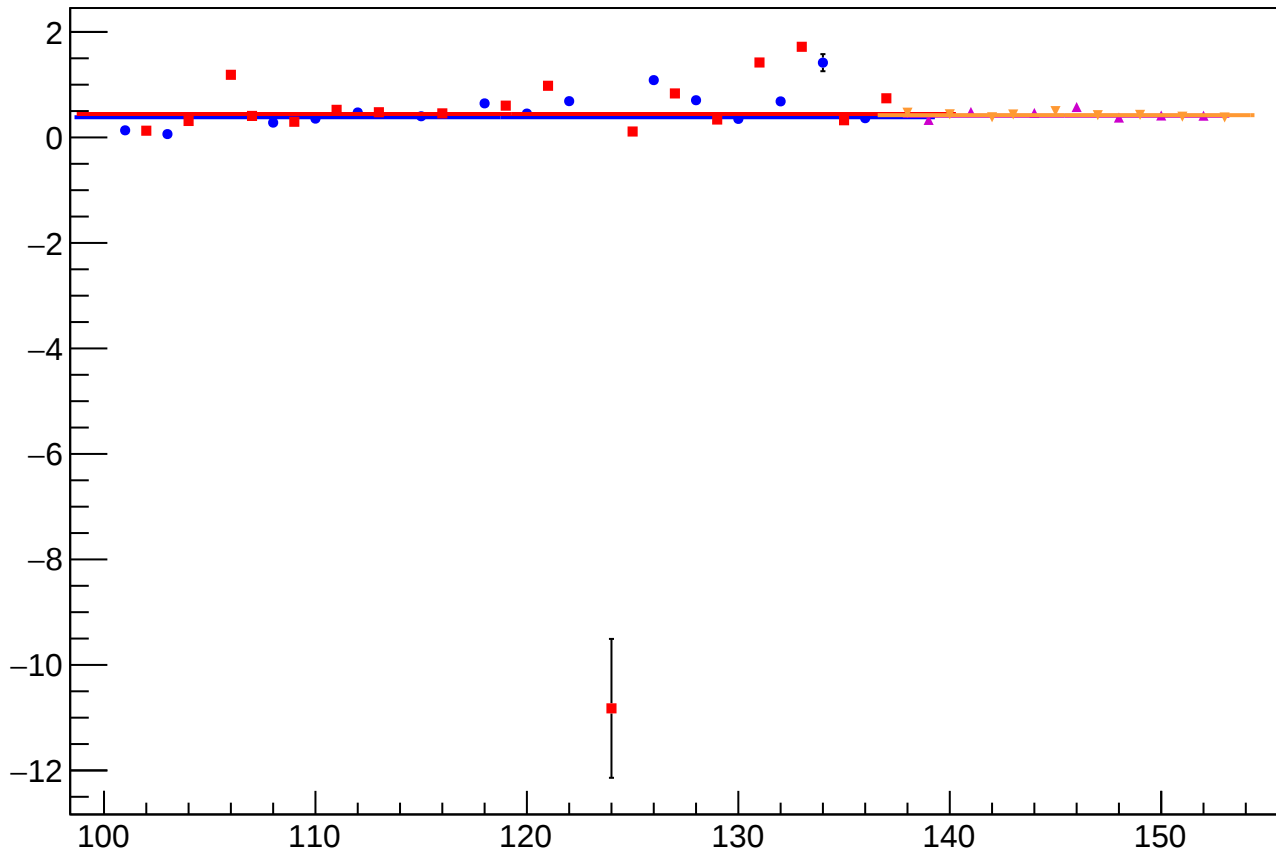
Left In:  $-77.414 \pm 0.030$   $\chi^2/\text{NDF}: 2260.8/6$

+ sign  $-67.751 \pm 0.016$   $\chi^2/\text{NDF}: 1008708.5/23$

All:  $-68.475 \pm 0.010$   $\chi^2/\text{NDF}: 1920845.4/48$

- sign  $-69.060 \pm 0.014$   $\chi^2/\text{NDF}: 908237.0/24$

# dit\_sam7\_11X12X\_slope vs Slug



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.422 $\pm$ 0.001  $\chi^2$ /NDF: 427.2/8

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

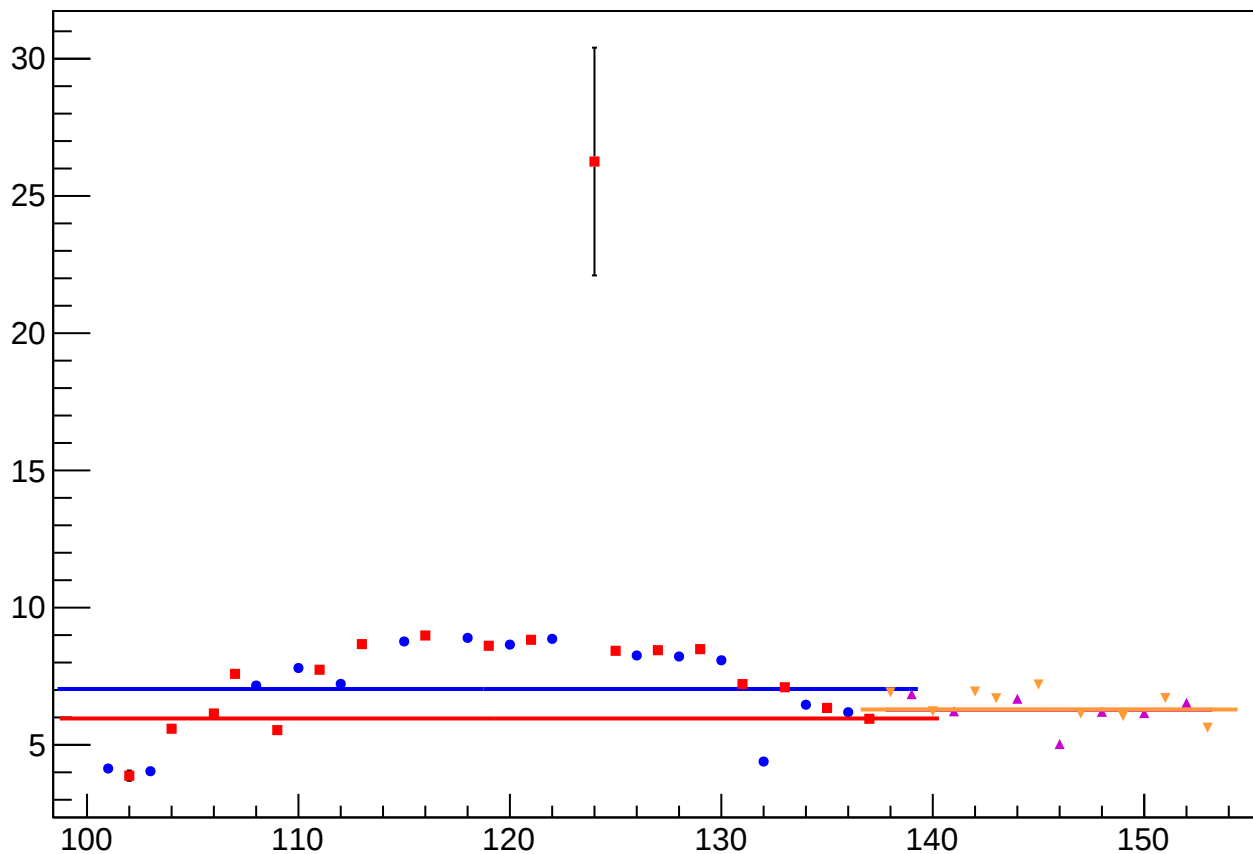
Left In: 0.411 $\pm$ 0.001  $\chi^2$ /NDF: 2090.4/6

+ sign 0.414 $\pm$ 0.001  $\chi^2$ /NDF: 8954.6/23

All: 0.413 $\pm$ 0.001  $\chi^2$ /NDF: 13914.5/48

- sign 0.412 $\pm$ 0.001  $\chi^2$ /NDF: 4956.7/24

# dit\_sam7\_4aY\_slope vs Slug



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}$ : 69905.1/14

Left Out:  $6.290 \pm 0.003$   $\chi^2/\text{NDF}$ : 19834.3/8

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}$ : 168372.8/17

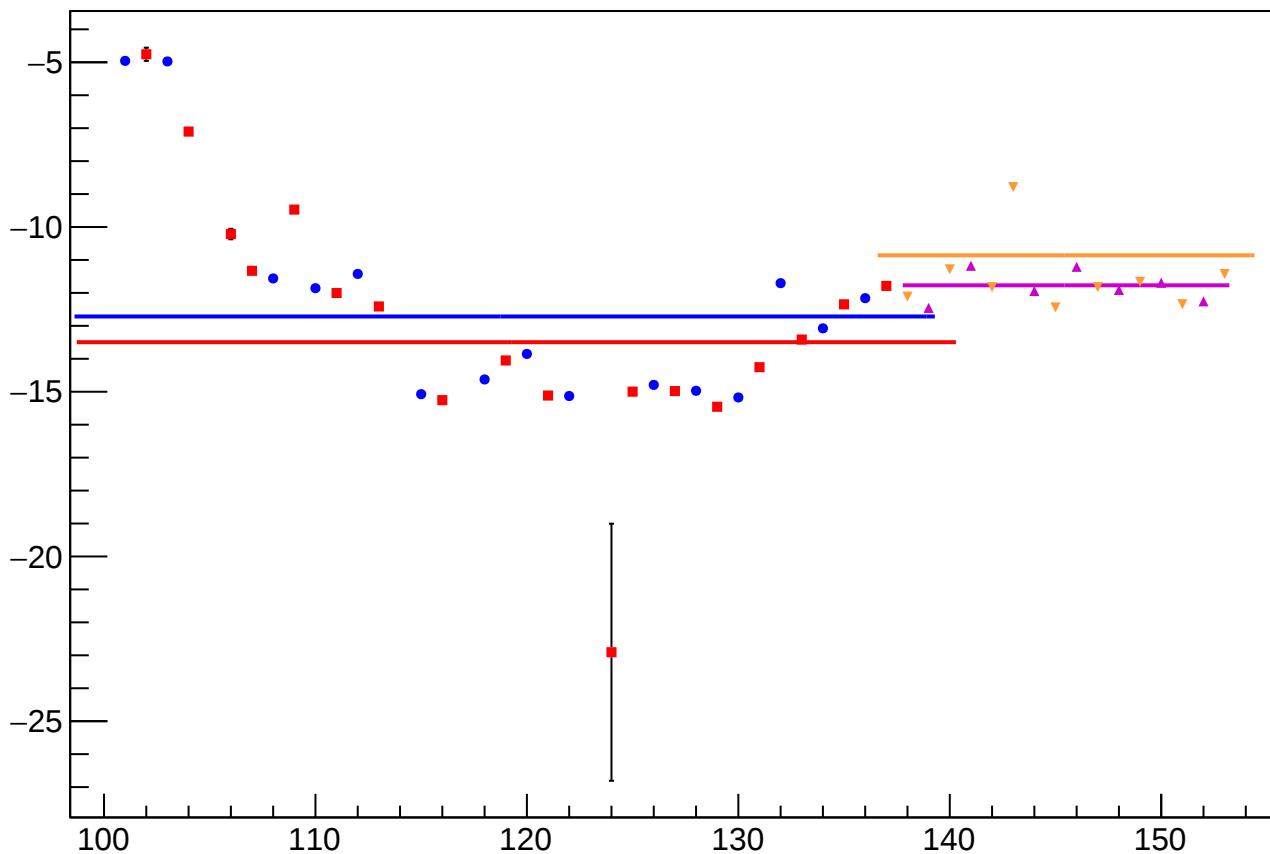
Left In:  $6.276 \pm 0.003$   $\chi^2/\text{NDF}$ : 7649.0/6

+ sign  $6.500 \pm 0.002$   $\chi^2/\text{NDF}$ : 109324.3/23

All:  $5.984 \pm 0.000$   $\chi^2/\text{NDF}$ : 347329.9/48

- sign  $5.969 \pm 0.000$   $\chi^2/\text{NDF}$ : 190514.1/24

# dit\_sam7\_4eY\_slope vs Slug



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}: 85219.4/14$

Left Out:  $-10.859 \pm 0.003$   $\chi^2/\text{NDF}: 162949.8/8$

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}: 55753.8/17$

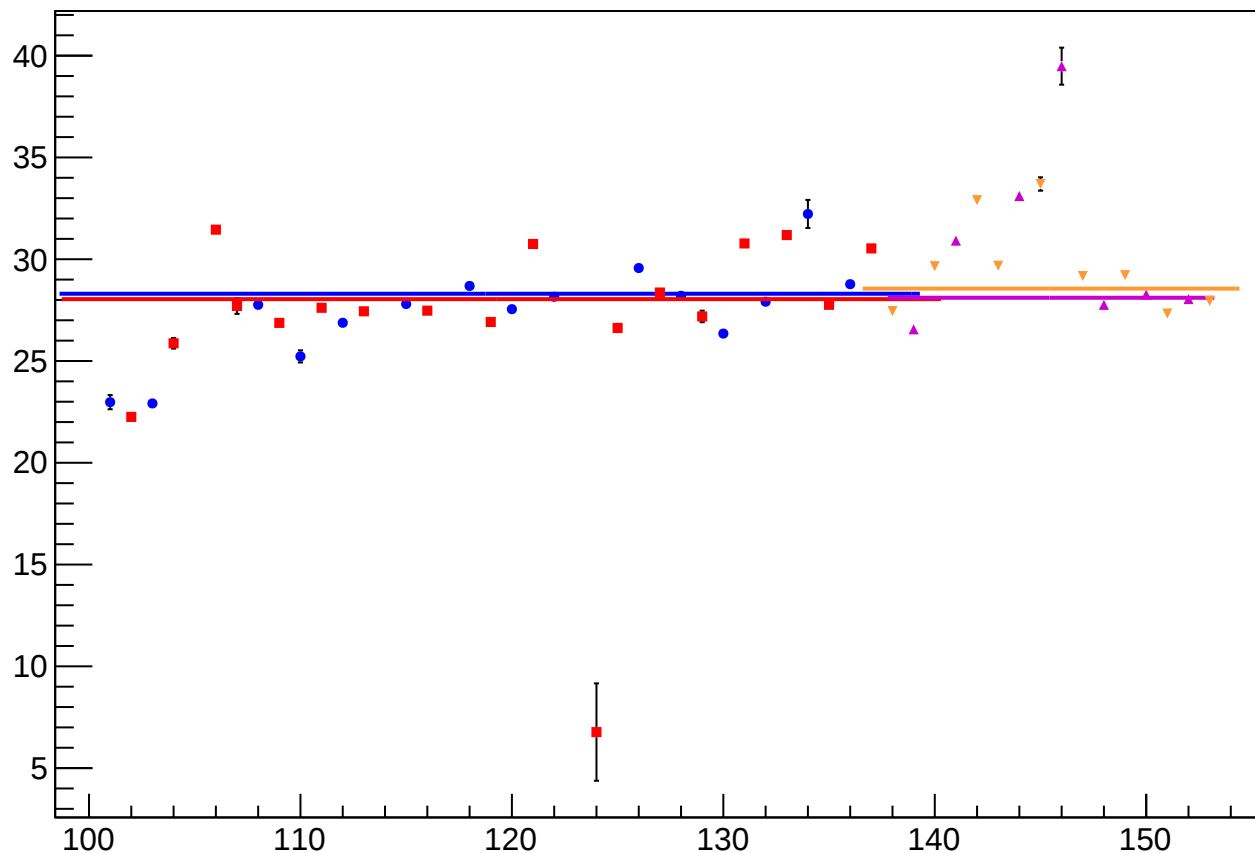
Left In:  $-11.770 \pm 0.004$   $\chi^2/\text{NDF}: 4578.7/6$

+ sign  $-11.273 \pm 0.003$   $\chi^2/\text{NDF}: 314000.3/23$

All:  $-11.752 \pm 0.002$   $\chi^2/\text{NDF}: 489789.6/48$

- sign  $-12.290 \pm 0.003$   $\chi^2/\text{NDF}: 121979.8/24$

# dit\_sam8\_4aX\_slope vs Slug



Right In:  $28.304 \pm 0.023$   $\chi^2/\text{NDF}: 3400.0/14$

Left Out:  $28.557 \pm 0.029$   $\chi^2/\text{NDF}: 1918.8/8$

Right Out:  $28.040 \pm 0.030$   $\chi^2/\text{NDF}: 2561.5/17$

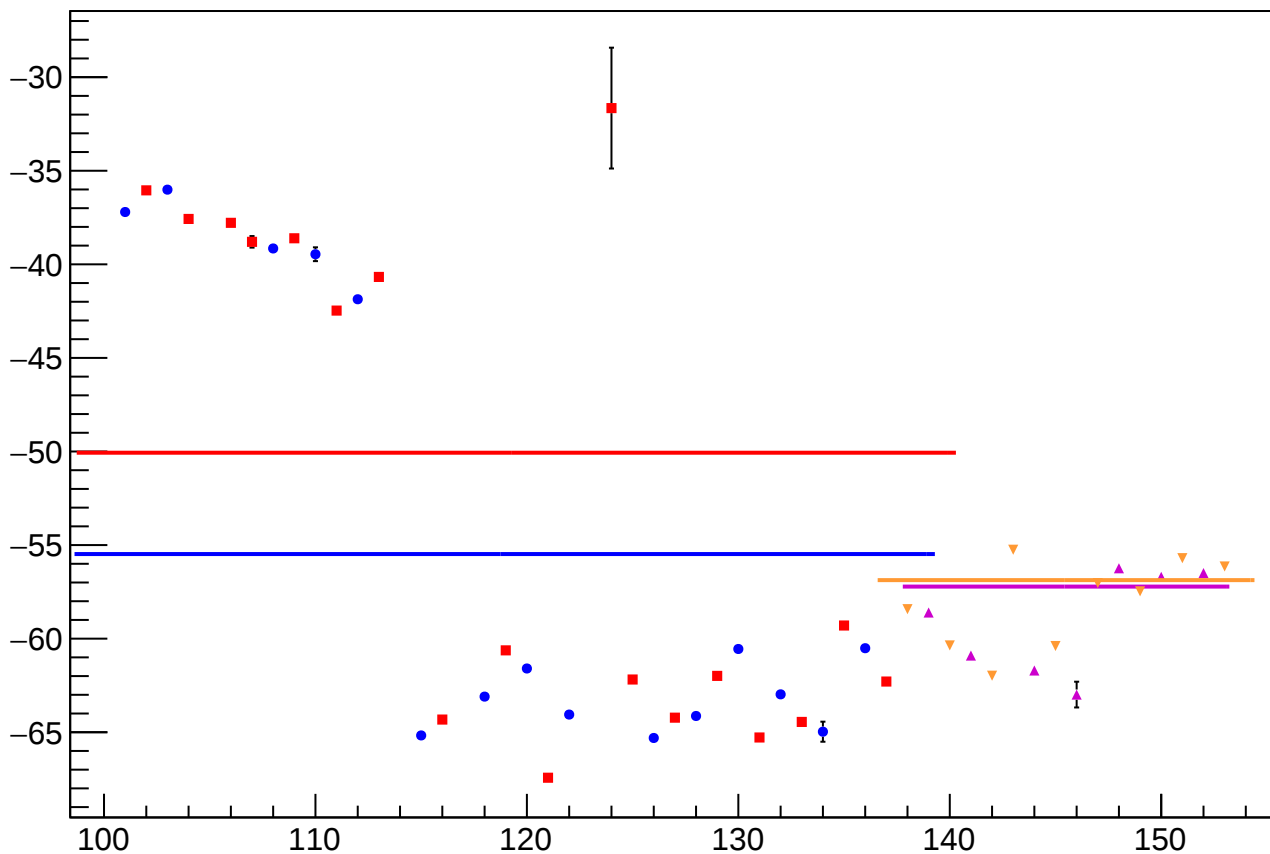
Left In:  $28.106 \pm 0.025$   $\chi^2/\text{NDF}: 2871.0/6$

+ sign  $28.404 \pm 0.018$   $\chi^2/\text{NDF}: 5366.2/23$

All:  $28.254 \pm 0.013$   $\chi^2/\text{NDF}: 10952.4/48$

- sign  $28.079 \pm 0.019$   $\chi^2/\text{NDF}: 5435.3/24$

# dit\_sam8\_4eX\_slope vs Slug



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}: 595140.3/14$

Left Out:  $-56.873 \pm 0.025$   $\chi^2/\text{NDF}: 4283.5/8$

Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}: 340098.3/17$

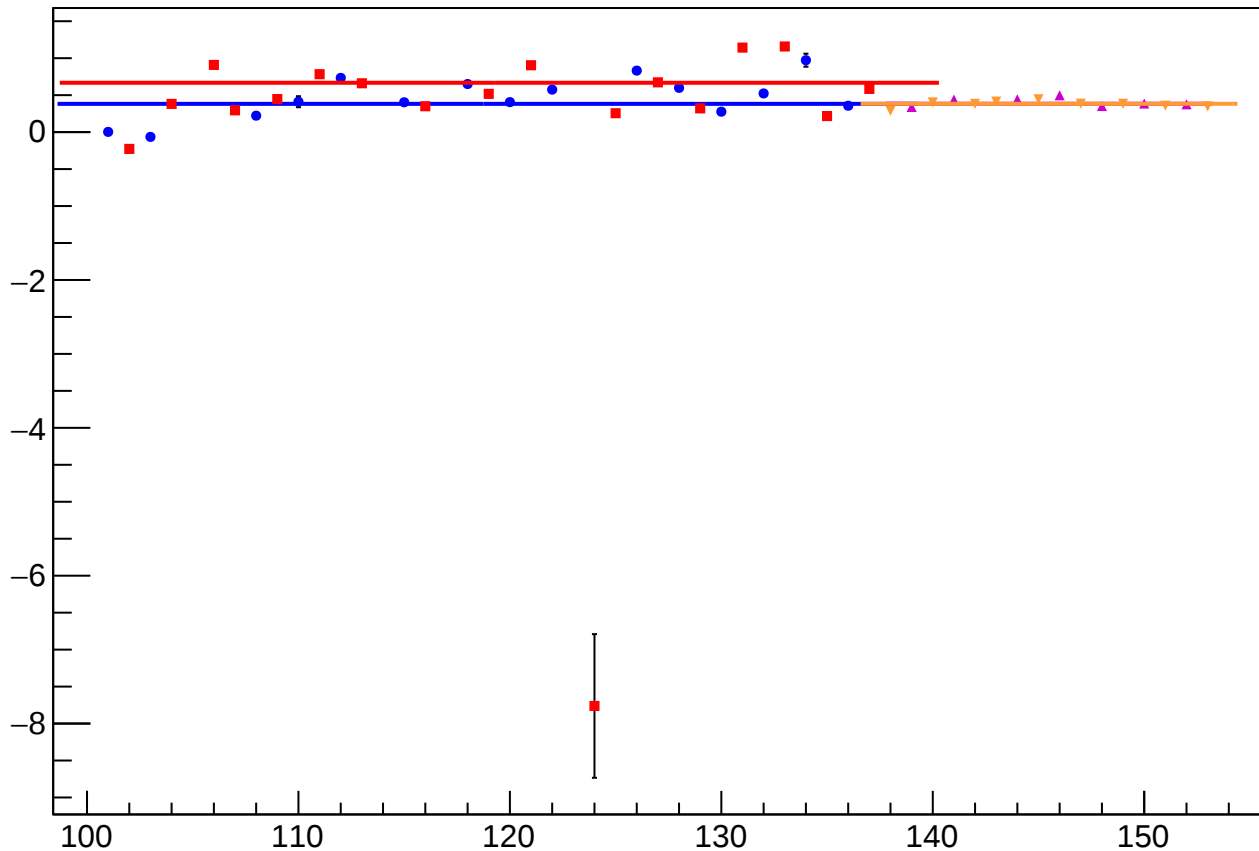
Left In:  $-57.218 \pm 0.022$   $\chi^2/\text{NDF}: 4549.5/6$

+ sign  $-55.897 \pm 0.014$   $\chi^2/\text{NDF}: 601543.7/23$

All:  $-54.999 \pm 0.010$   $\chi^2/\text{NDF}: 1006014.3/48$

- sign  $-53.808 \pm 0.016$   $\chi^2/\text{NDF}: 394709.1/24$

# dit\_sam8\_11X12X\_slope vs Slug



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}$ : 4595.8/14

Left Out:  $0.383 \pm 0.001$   $\chi^2/\text{NDF}$ : 1133.2/8

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}$ : 3704.8/17

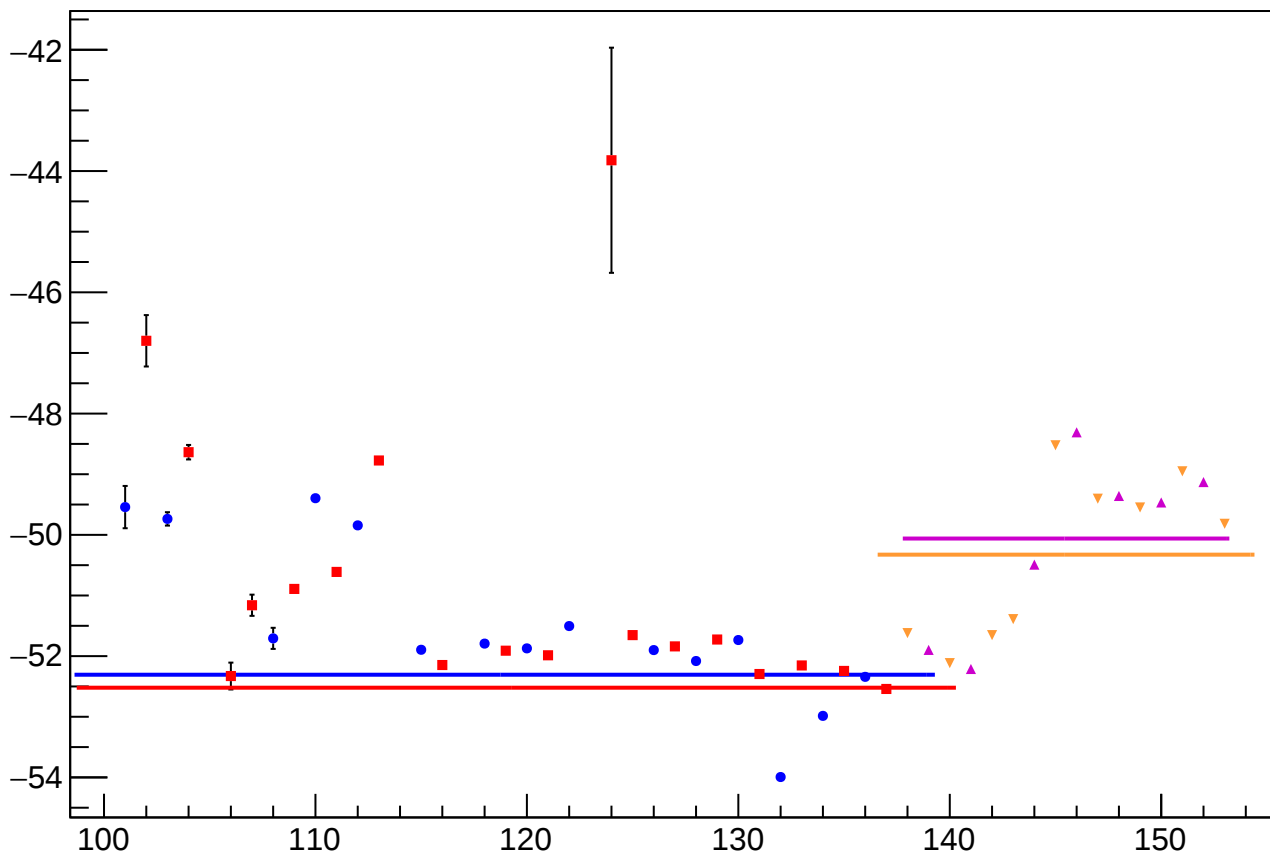
Left In:  $0.384 \pm 0.001$   $\chi^2/\text{NDF}$ : 1715.3/6

+ sign  $0.383 \pm 0.001$   $\chi^2/\text{NDF}$ : 5729.3/23

All:  $0.386 \pm 0.000$   $\chi^2/\text{NDF}$ : 14919.3/48

- sign  $0.389 \pm 0.001$   $\chi^2/\text{NDF}$ : 9148.4/24

# dit\_sam8\_4aY\_slope vs Slug



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}: 25427.4/14$

Left Out:  $-50.326 \pm 0.003$   $\chi^2/\text{NDF}: 121303.0/8$

Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}: 14961.7/17$

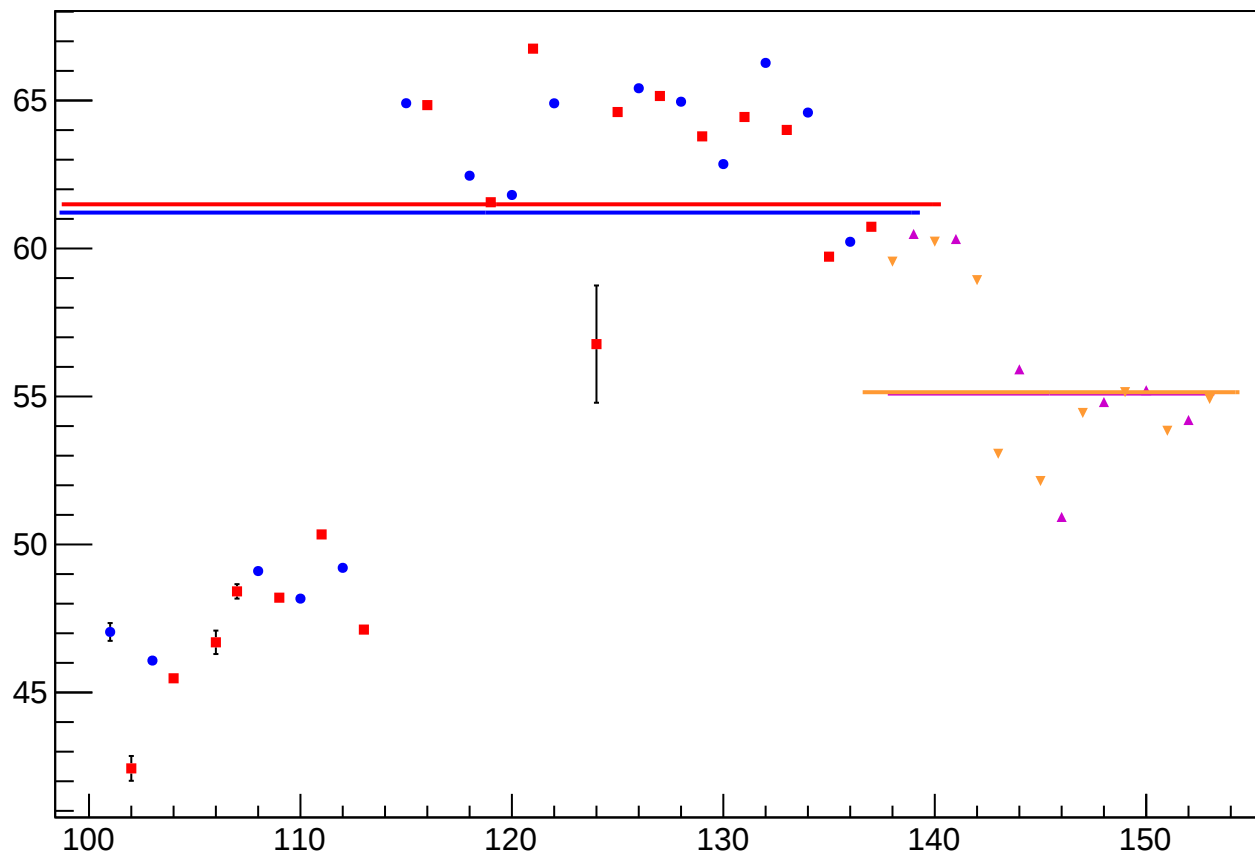
Left In:  $-50.061 \pm 0.002$   $\chi^2/\text{NDF}: 213166.2/6$

+ sign  $-51.049 \pm 0.002$   $\chi^2/\text{NDF}: 312052.5/23$

All:  $-51.949 \pm 0.001$   $\chi^2/\text{NDF}: 1533881.5/48$

- sign  $-52.115 \pm 0.001$   $\chi^2/\text{NDF}: 1047367.4/24$

# dit\_sam8\_4eY\_slope vs Slug



Right In:  $61.213 \pm 0.010$   $\chi^2/\text{NDF}$ : 156624.5/14

Left Out:  $55.144 \pm 0.005$   $\chi^2/\text{NDF}$ : 194256.9/8

Right Out:  $61.493 \pm 0.007$   $\chi^2/\text{NDF}$ : 243479.8/17

Left In:  $55.098 \pm 0.005$   $\chi^2/\text{NDF}$ : 57247.1/6

+ sign  $56.463 \pm 0.005$   $\chi^2/\text{NDF}$ : 643336.5/23

All:  $56.950 \pm 0.003$   $\chi^2/\text{NDF}$ : 1556995.9/48

- sign  $57.302 \pm 0.004$   $\chi^2/\text{NDF}$ : 894622.5/24

# 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

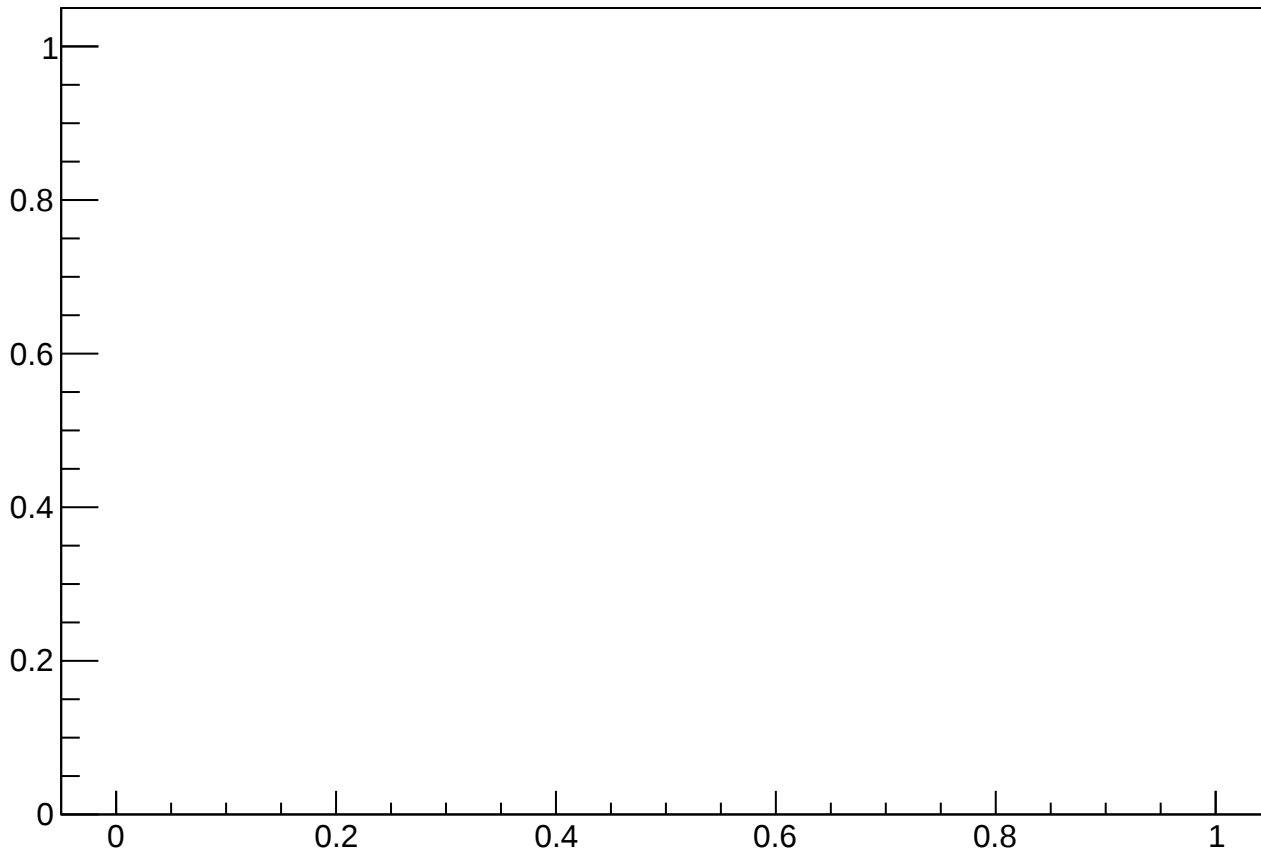
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

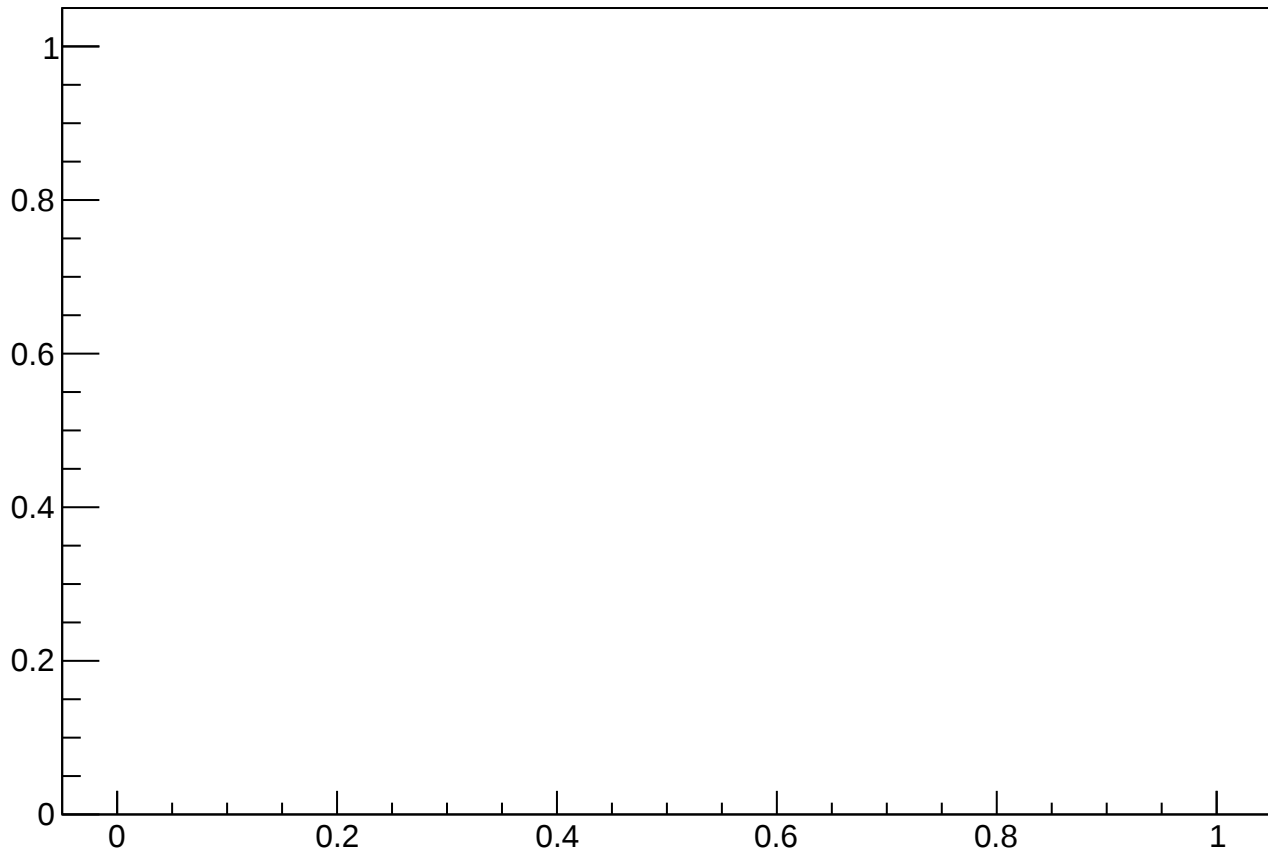
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil1\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aX\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

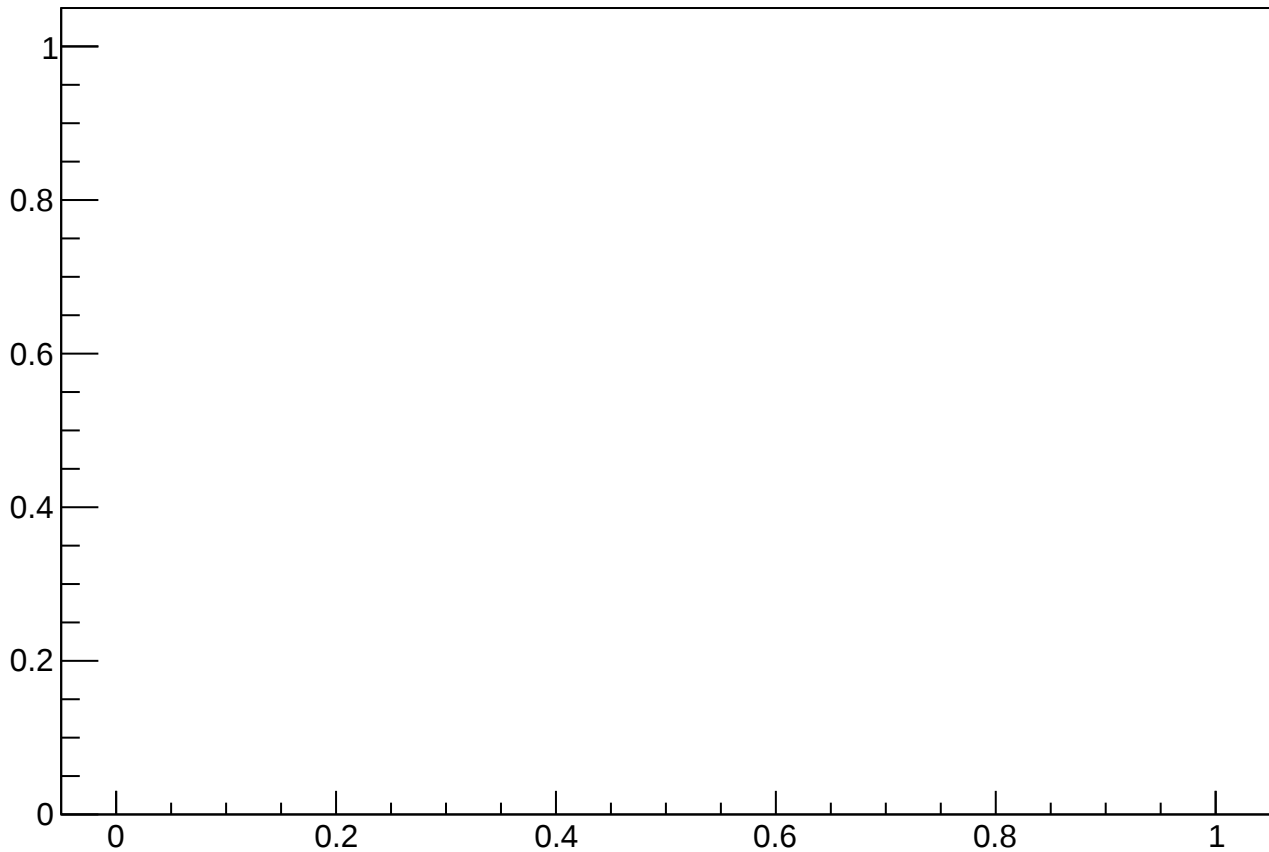
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usl\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

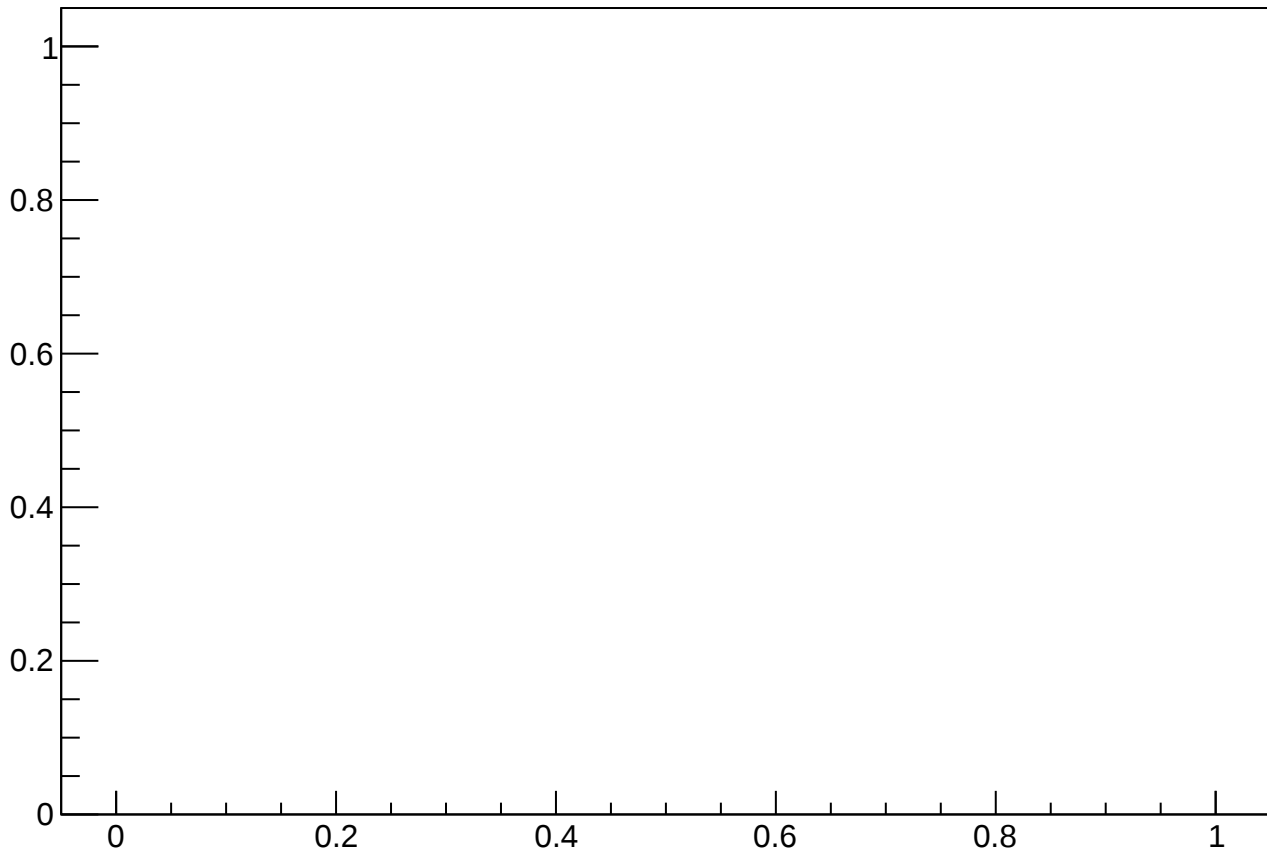
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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

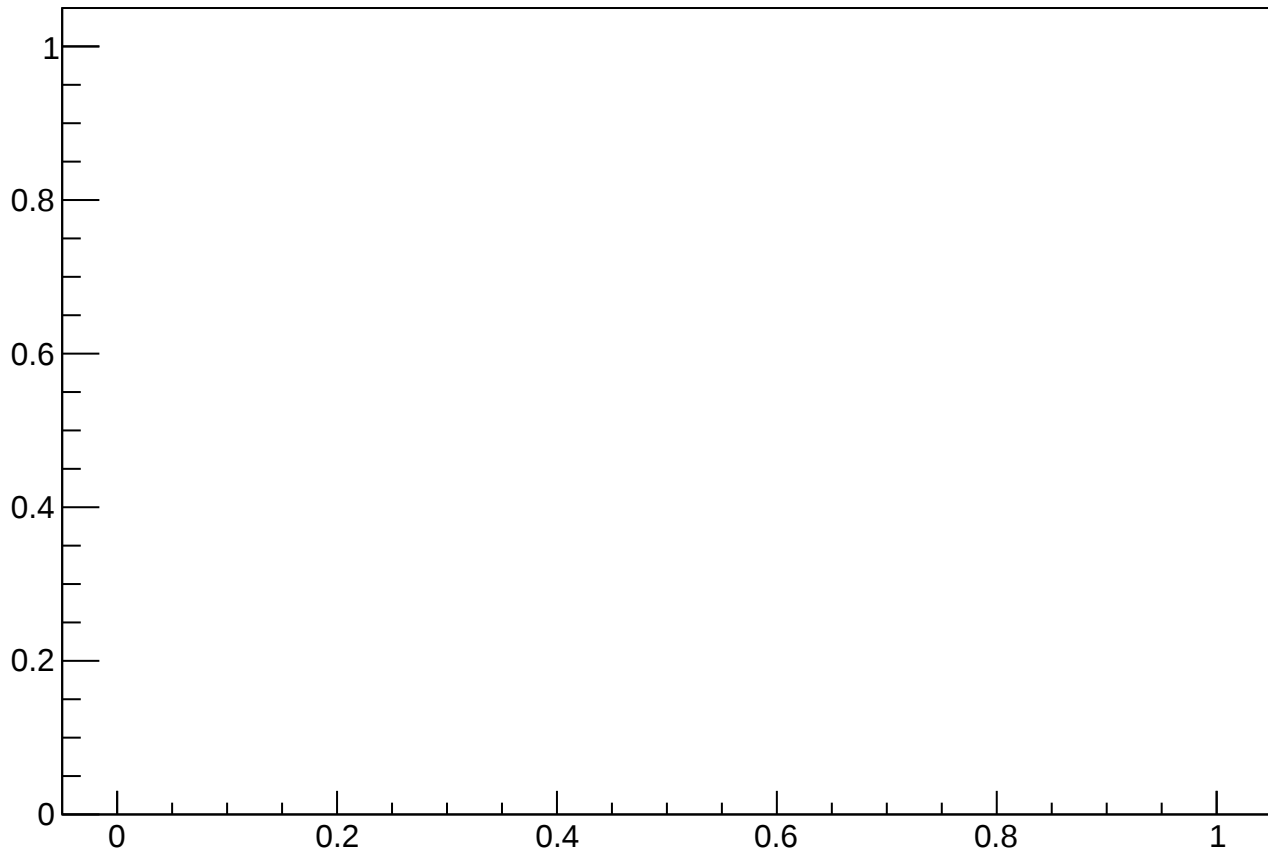
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

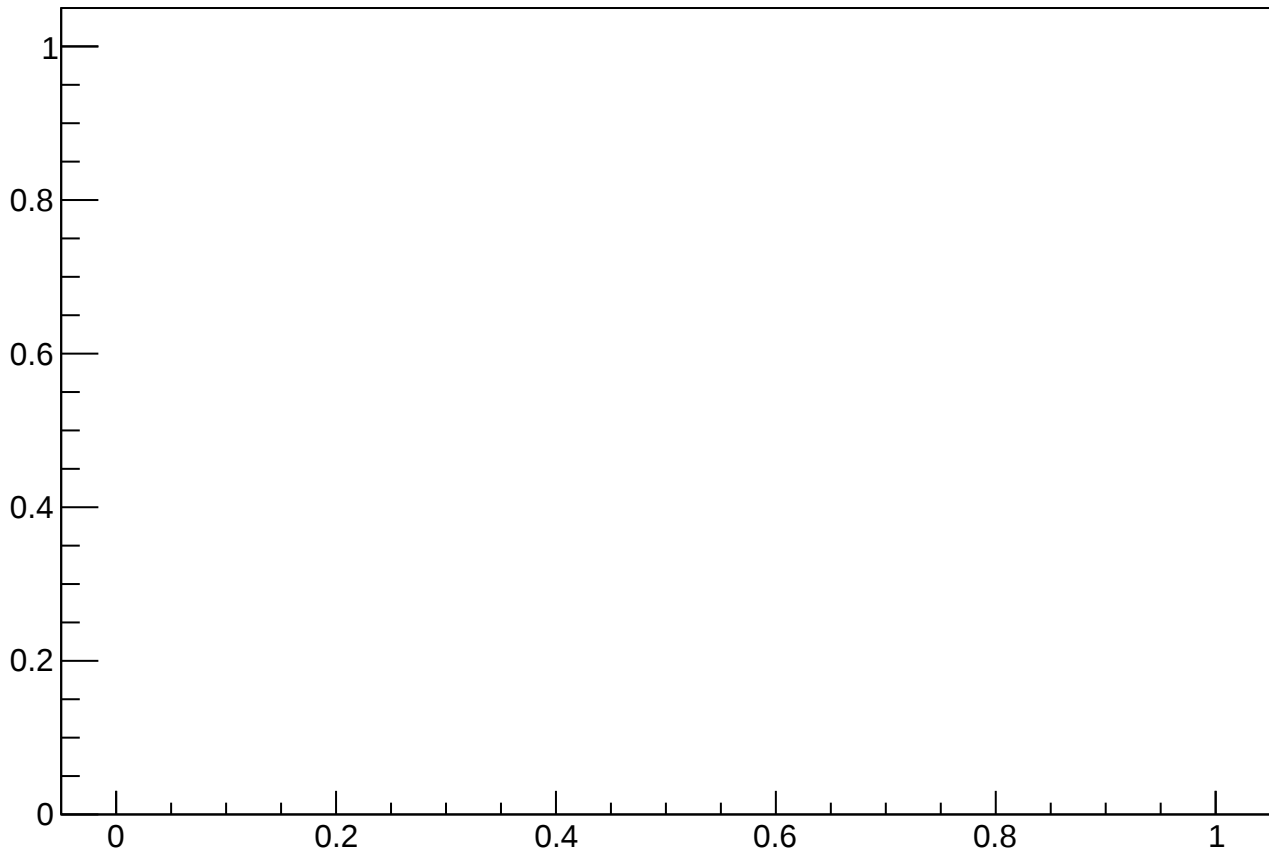
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil7\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil7\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

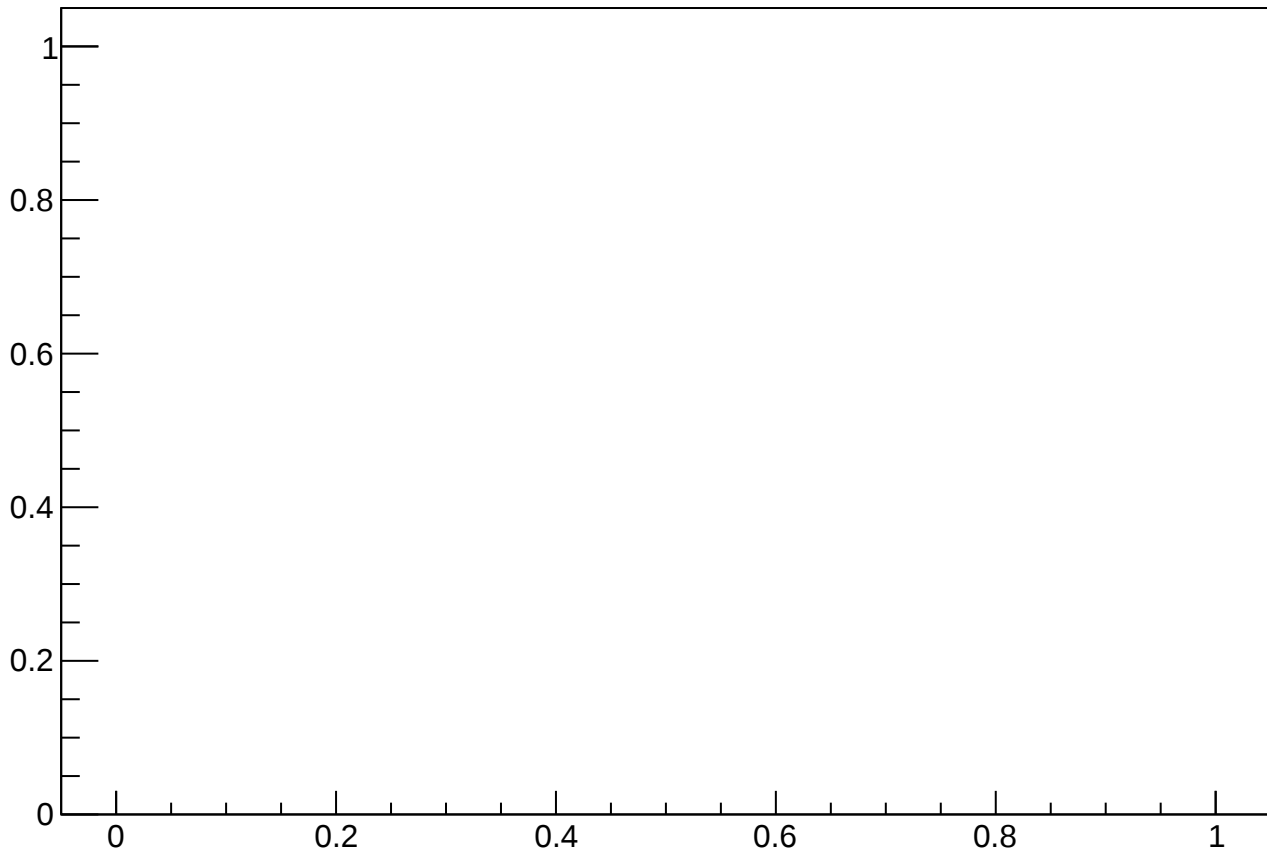
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

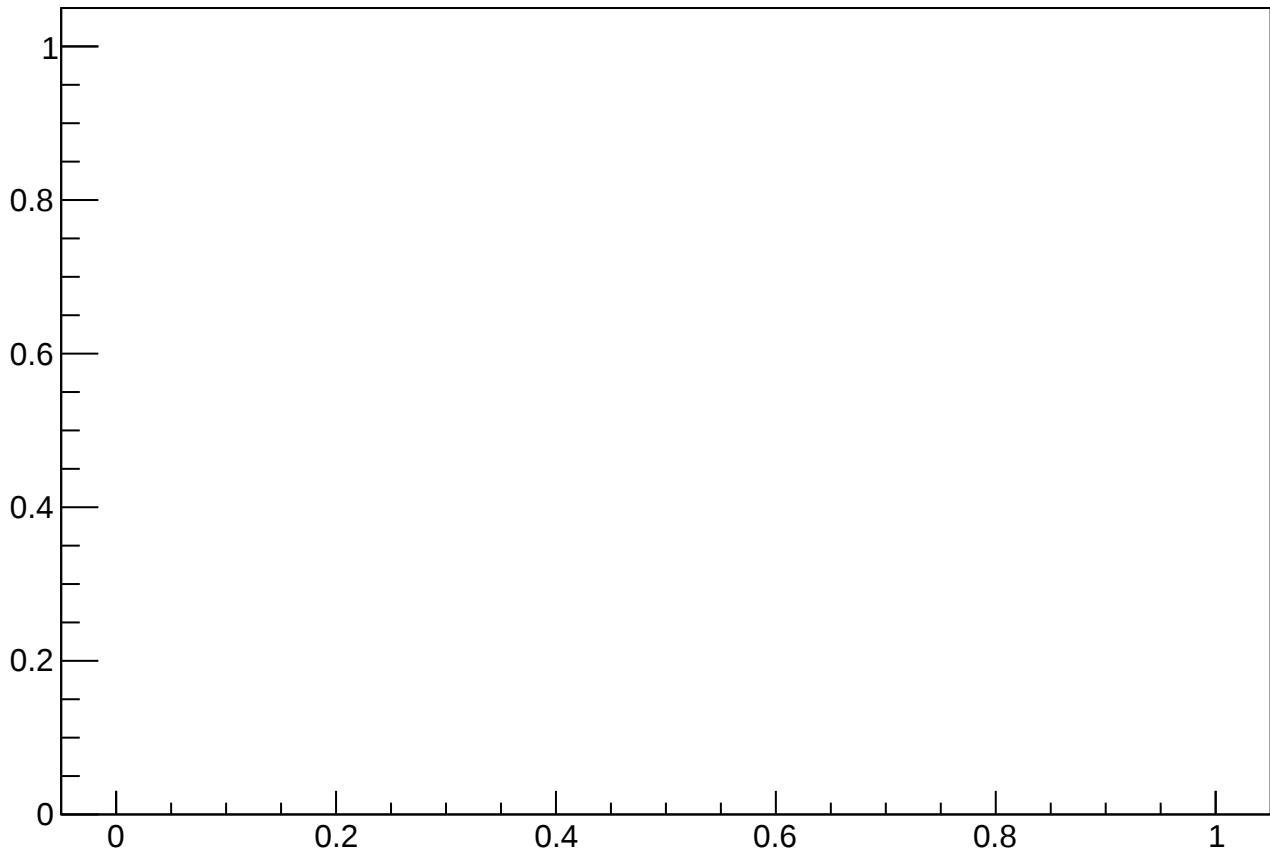
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

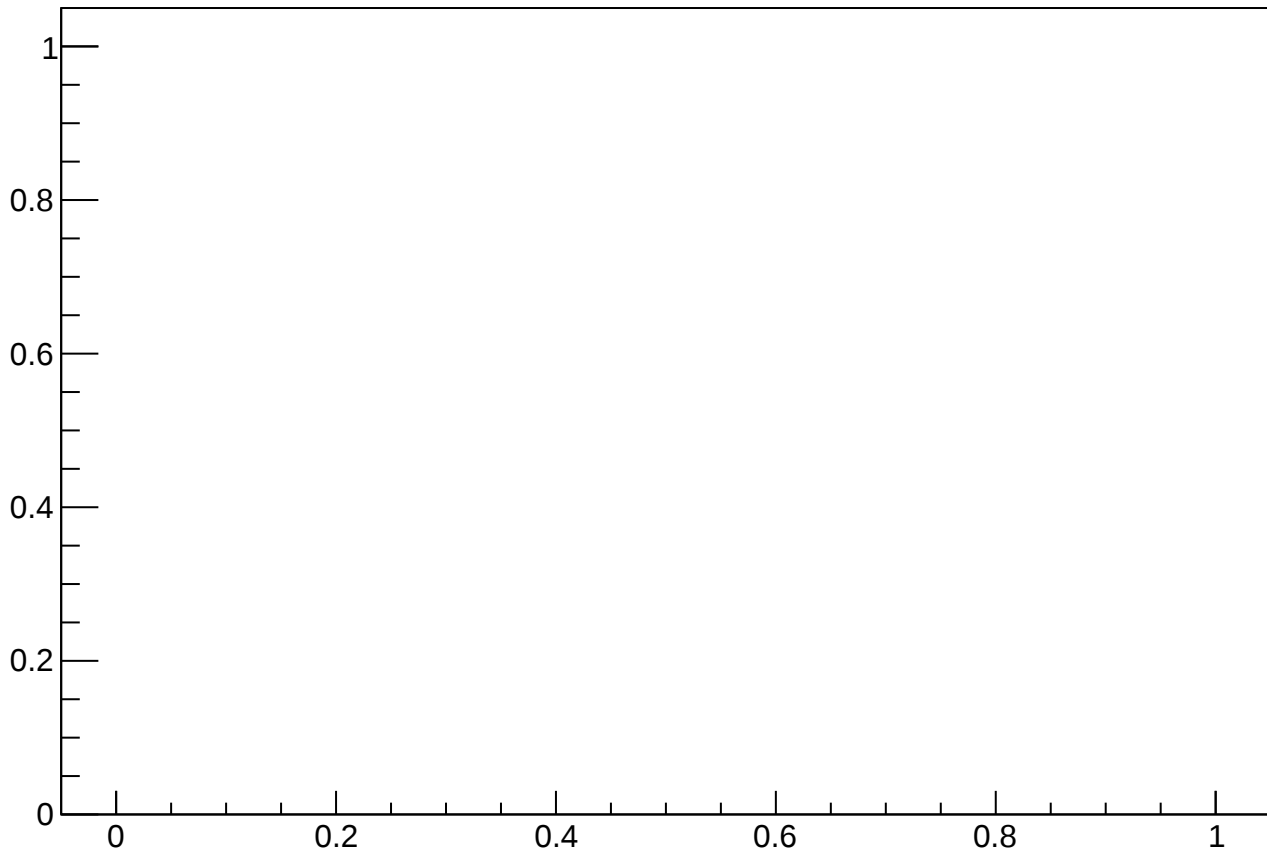
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

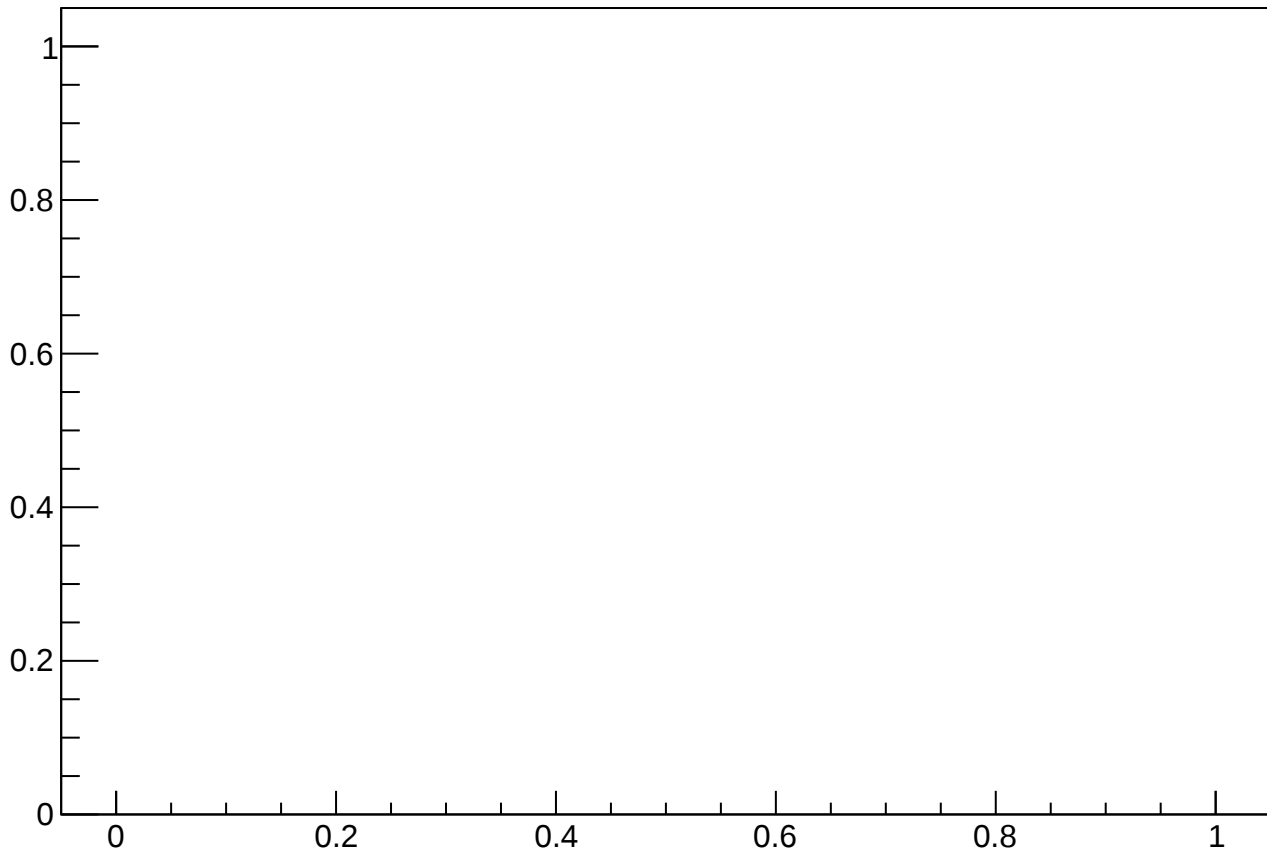
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

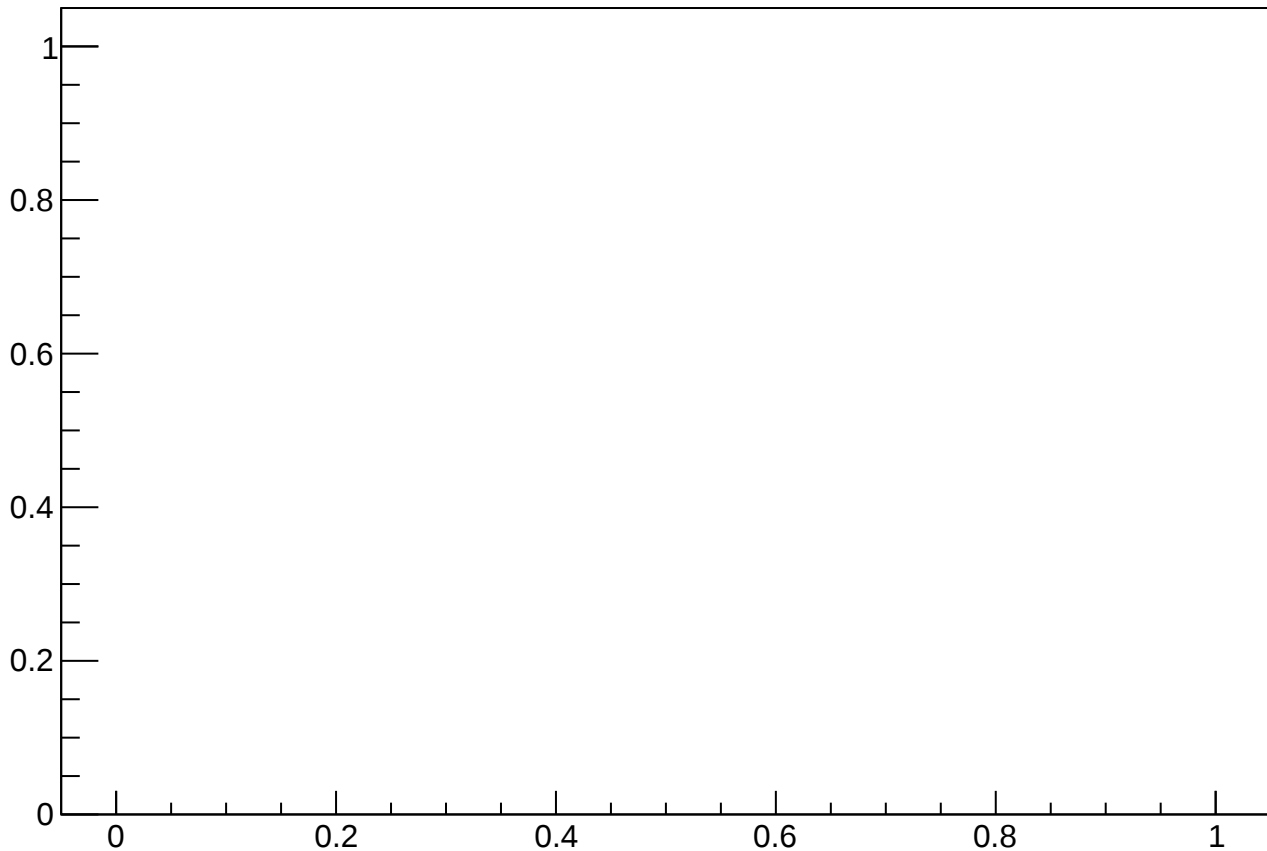
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

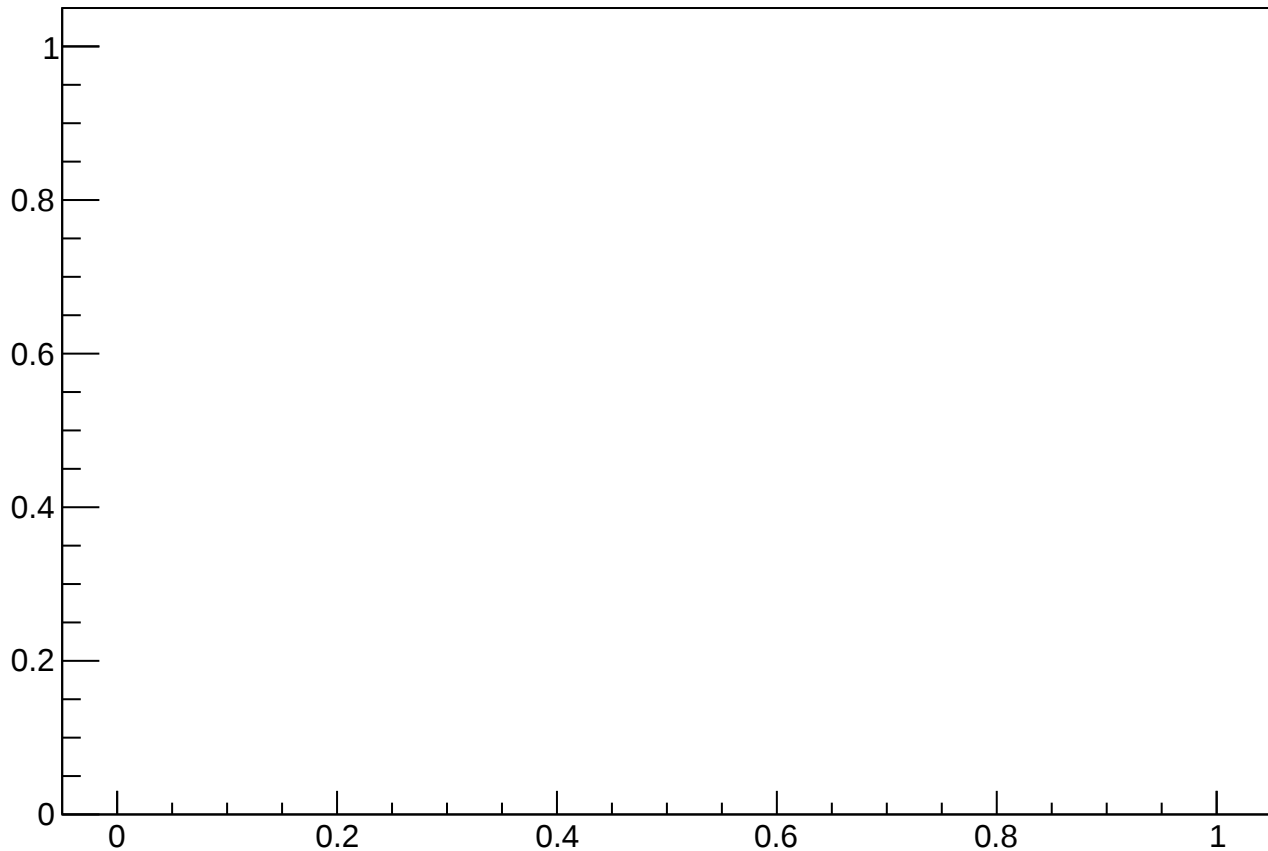
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil4\_Ndata\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

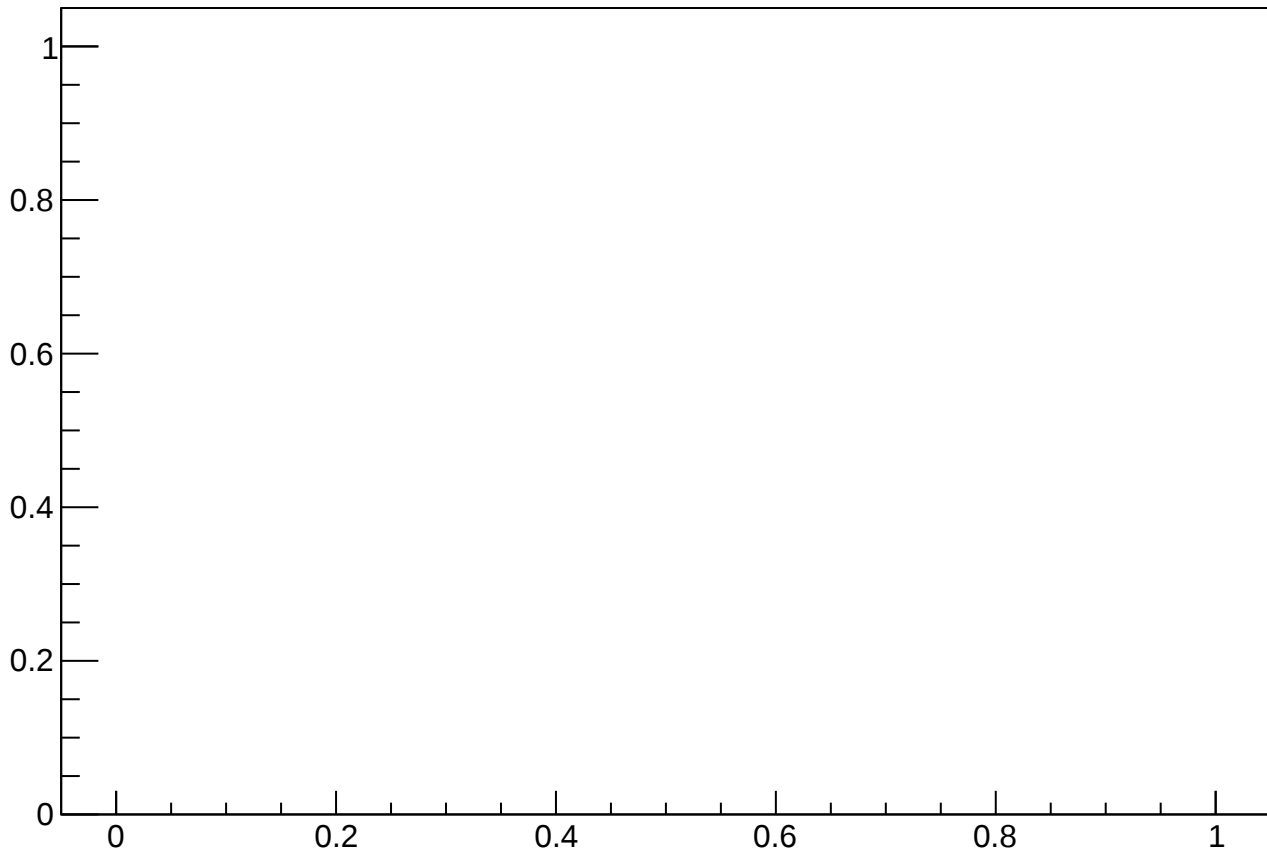
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usl\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

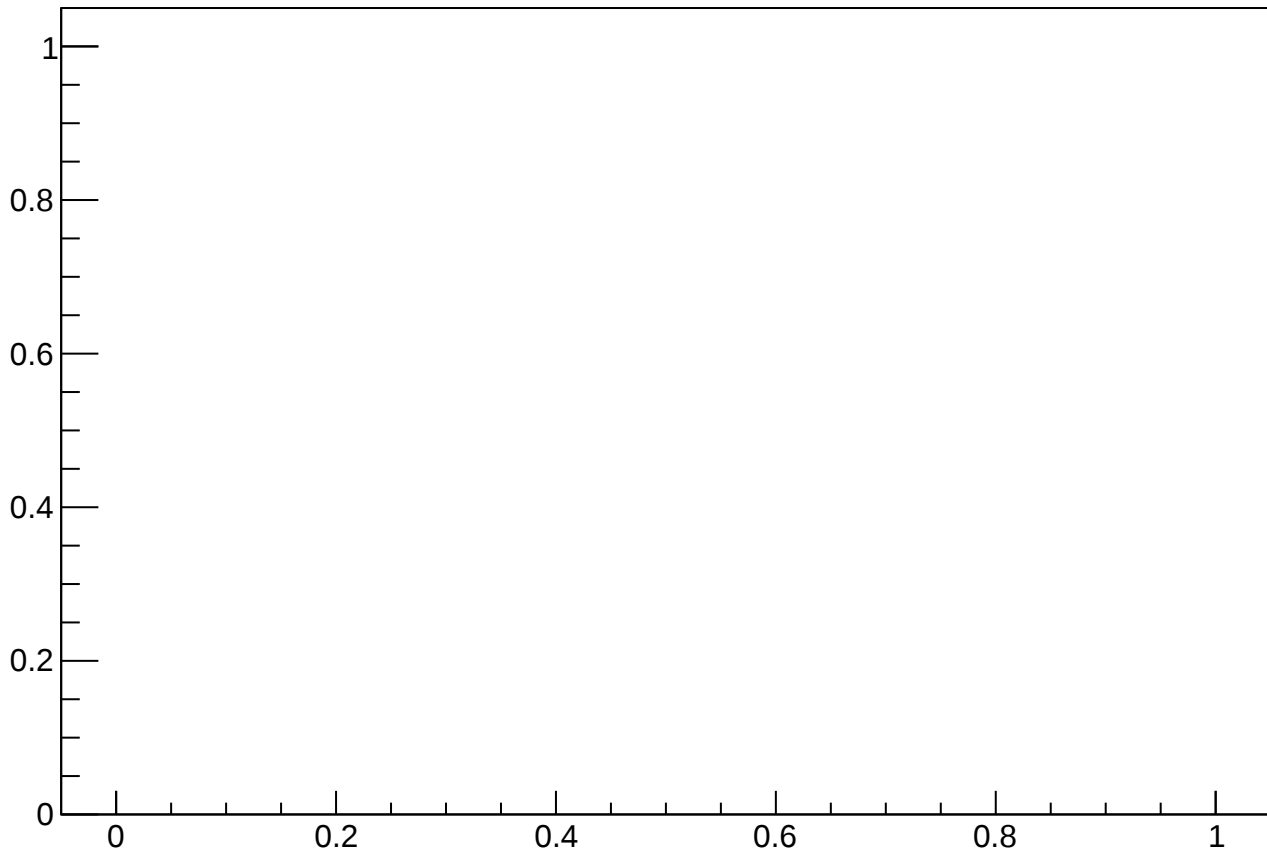
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

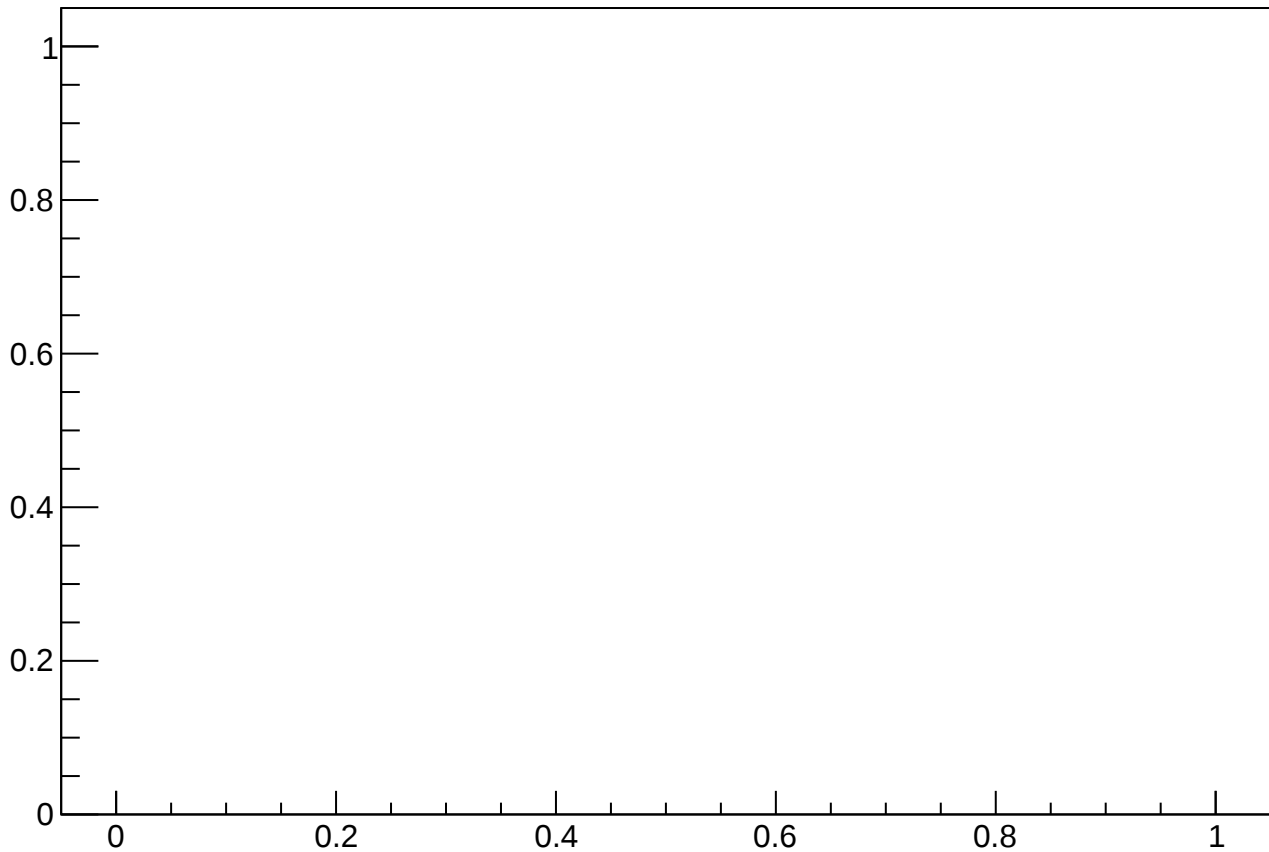
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam4\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam4\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

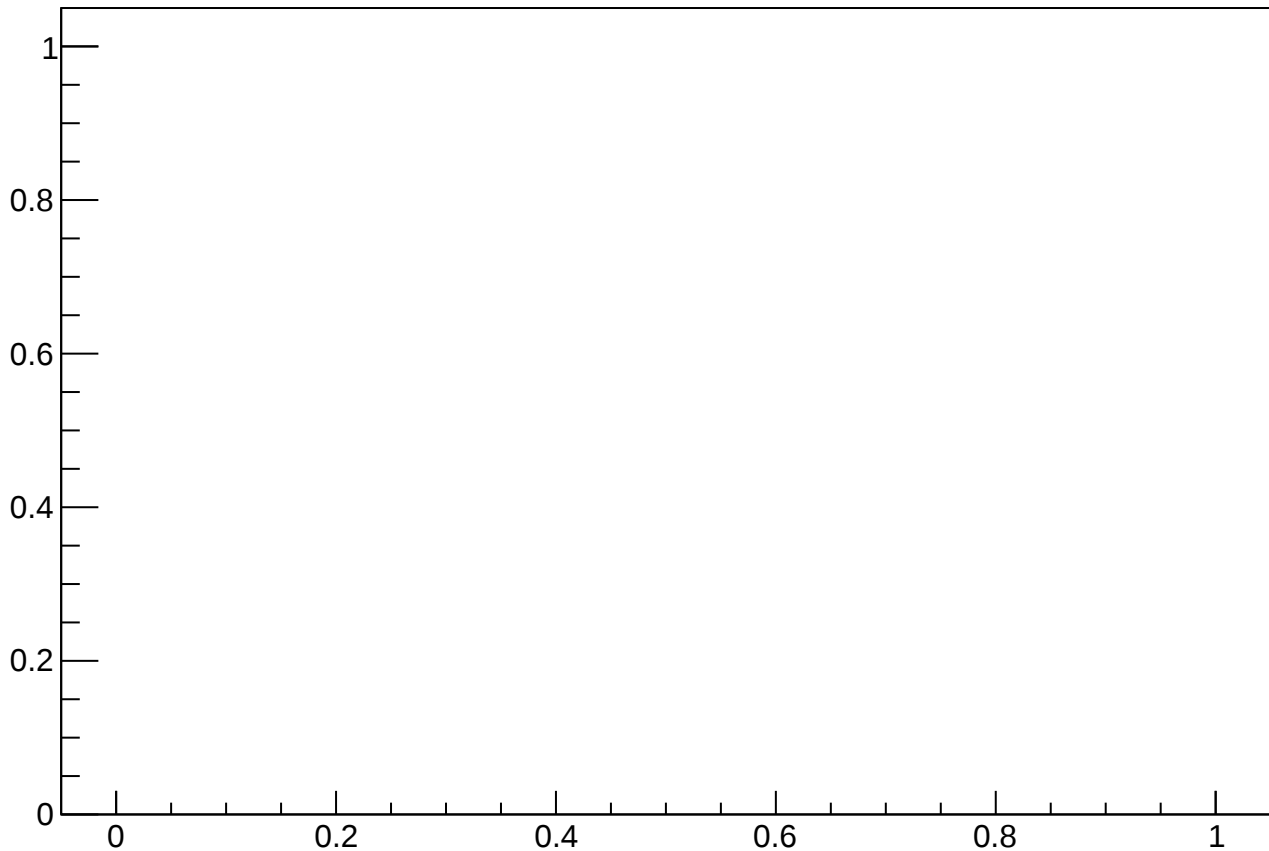
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_cyclenum\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_cyclenum\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_scandata1\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata1\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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

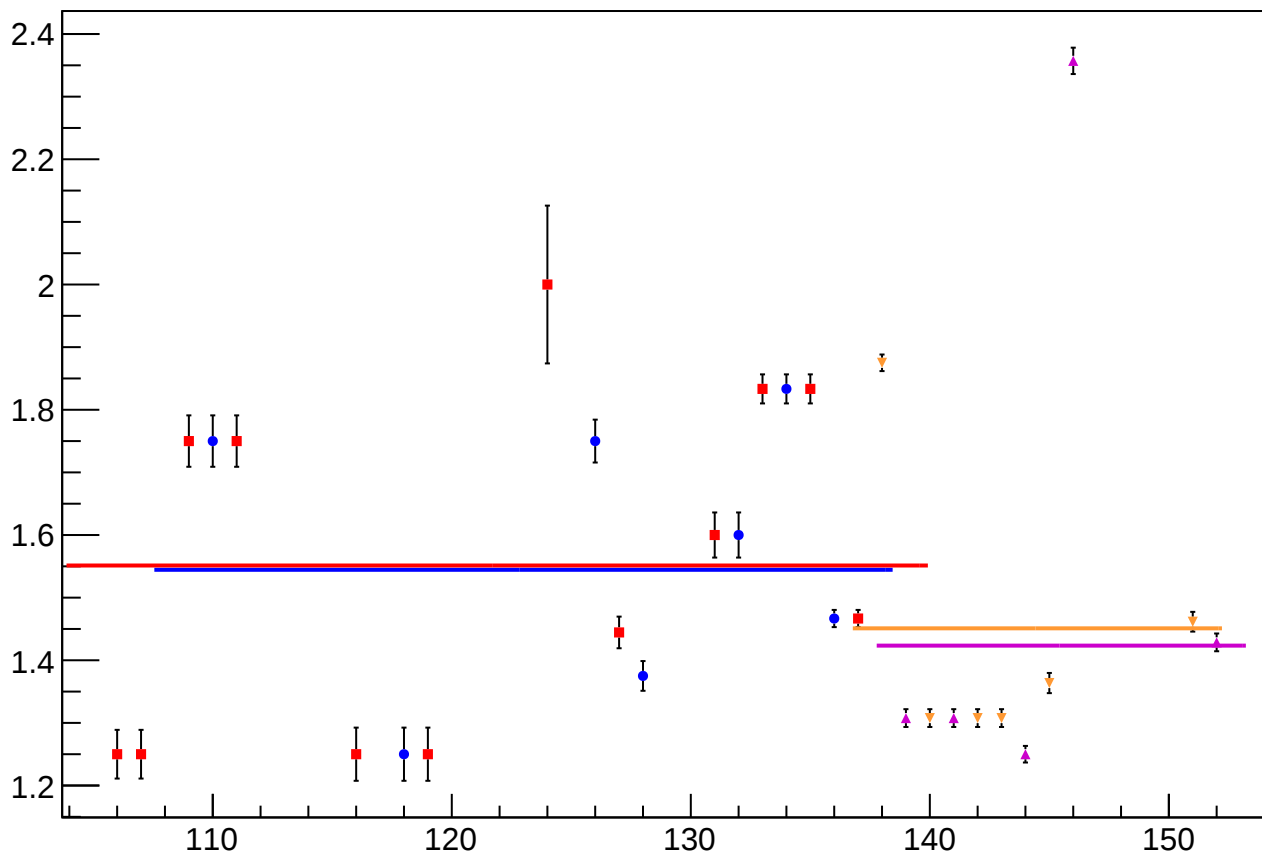
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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: 1.451 $\pm$ 0.006  $\chi^2$ /NDF:1360.0/5

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

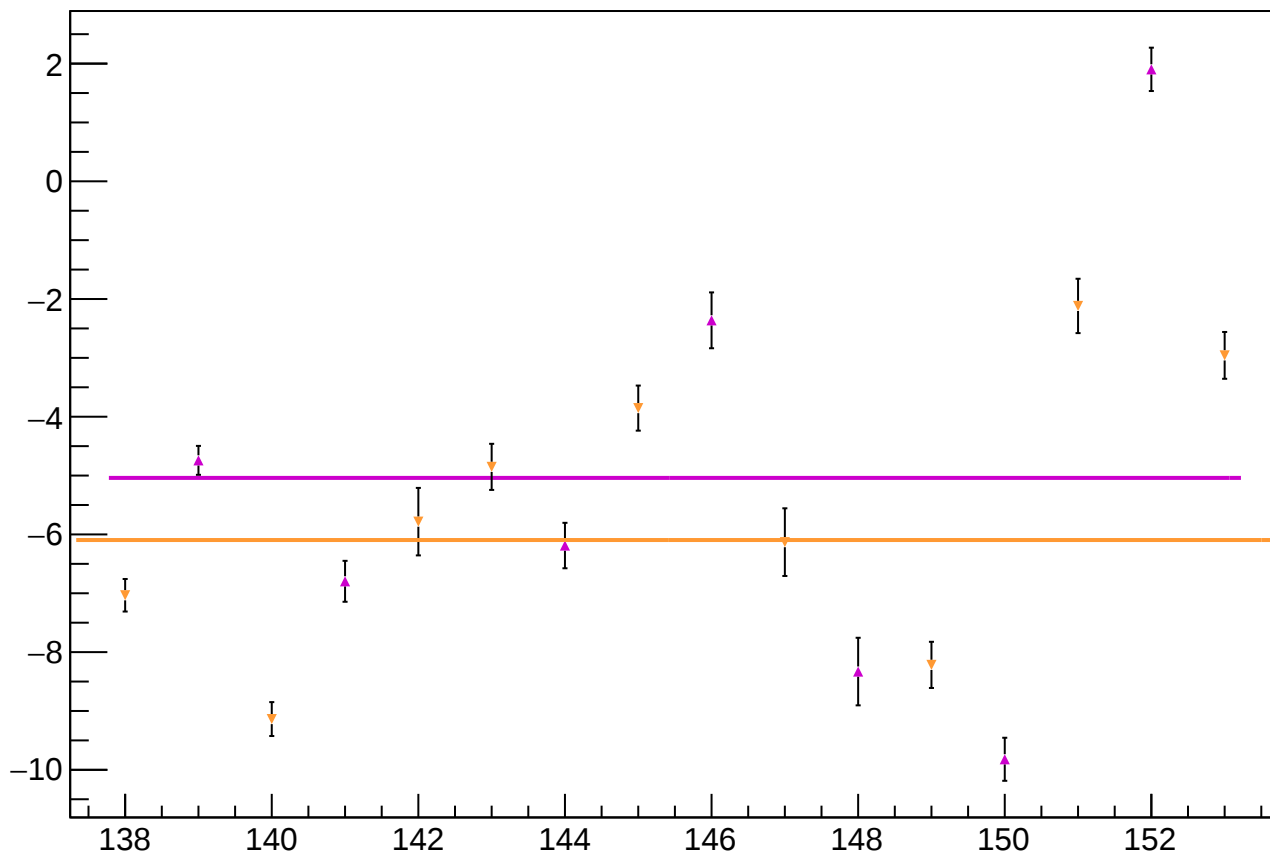
Left In: 1.423 $\pm$ 0.007  $\chi^2$ /NDF:2269.8/4

+ sign 1.478 $\pm$ 0.005  $\chi^2$ /NDF: 1782.2/12

All: 1.476 $\pm$ 0.004  $\chi^2$ /NDF: 4834.2/29

- sign 1.474 $\pm$ 0.005  $\chi^2$ /NDF: 3051.7/16

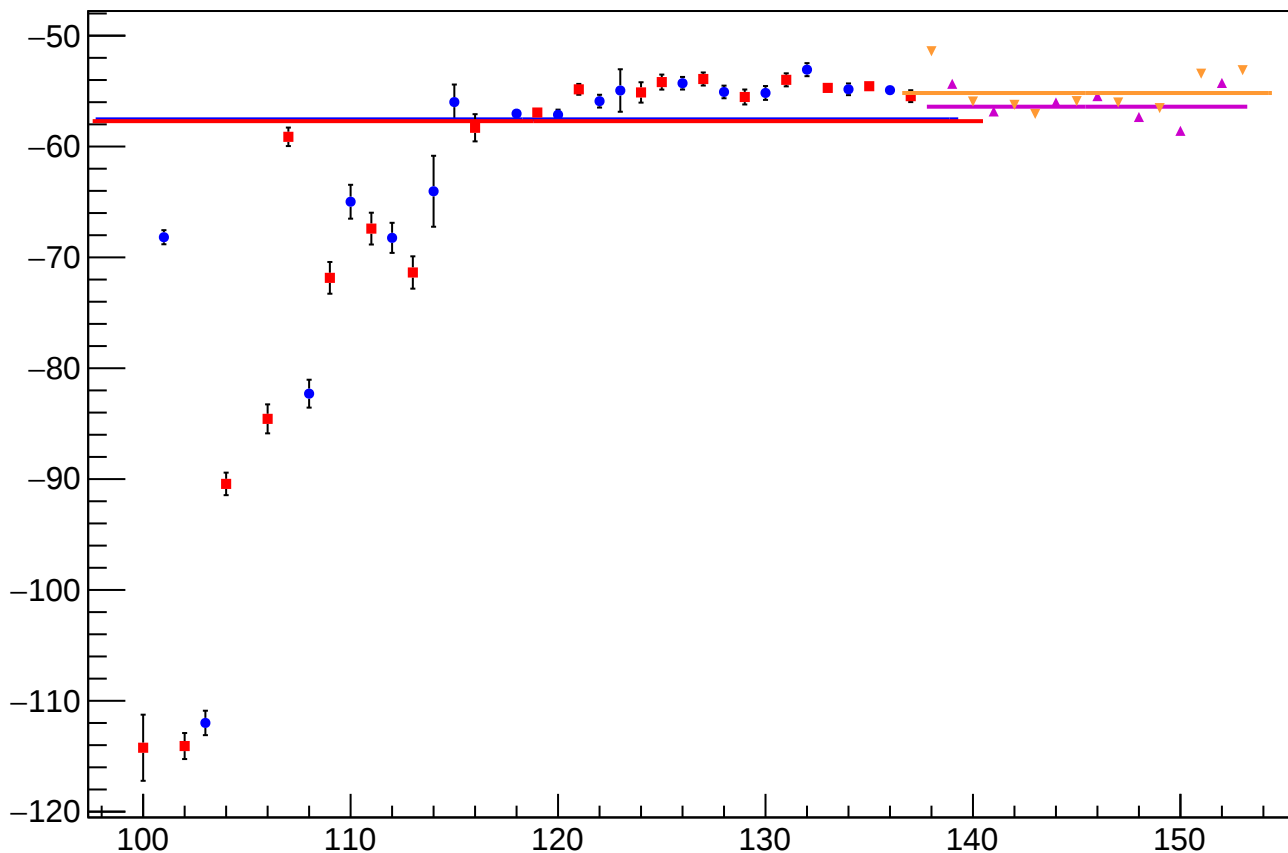
# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.095+/-0.127  $\chi^2/\text{NDF}$ : 333.3/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.040+/-0.136  $\chi^2/\text{NDF}$ : 626.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.605+/-0.093  $\chi^2/\text{NDF}$ : 992.1/15  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-57.549 \pm 0.142$   $\chi^2/\text{NDF}$ : 3460.4/16

Left Out:  $-55.172 \pm 0.094$   $\chi^2/\text{NDF}$ : 341.2/8

Right Out:  $-57.711 \pm 0.143$   $\chi^2/\text{NDF}$ : 4703.8/18

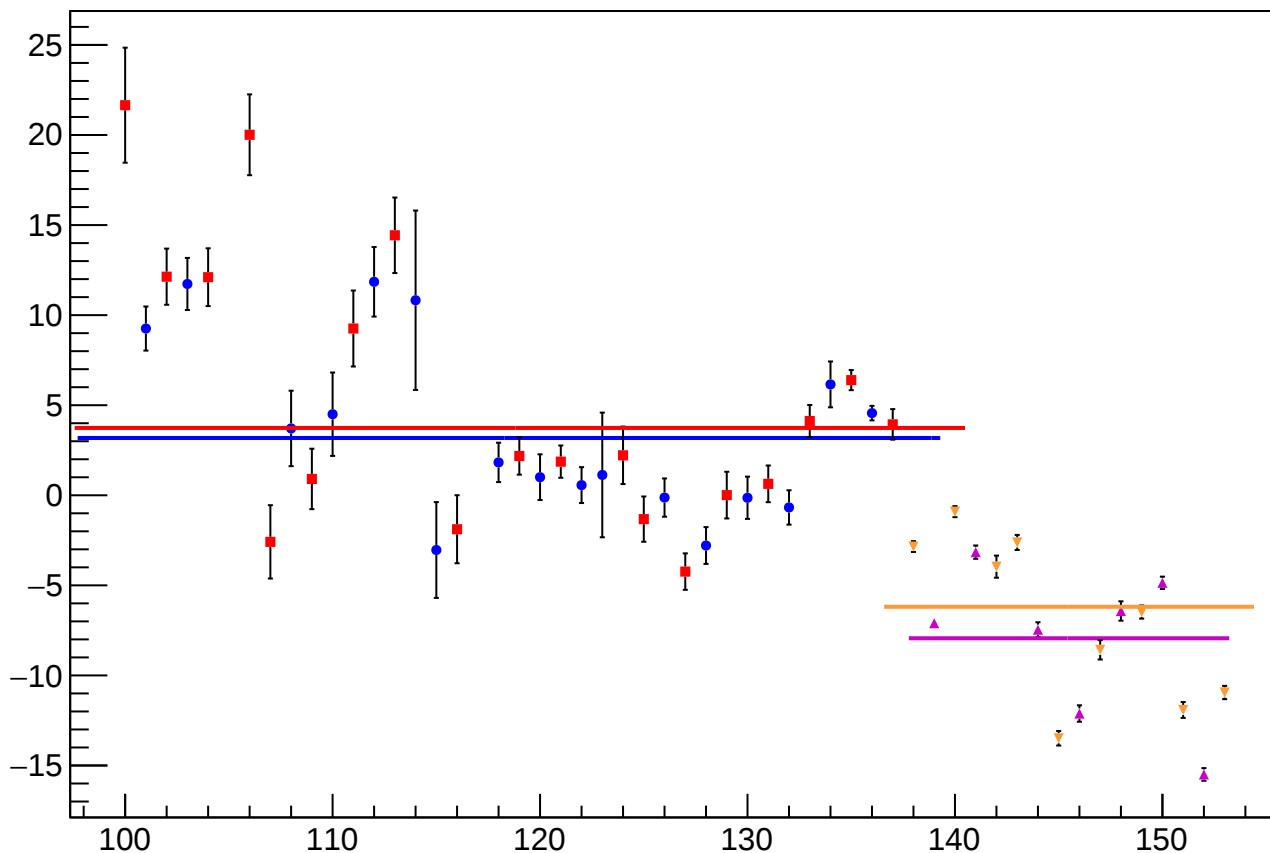
Left In:  $-56.407 \pm 0.108$   $\chi^2/\text{NDF}$ : 182.4/6

+ sign  $-55.904 \pm 0.079$   $\chi^2/\text{NDF}$ : 3996.6/25

All:  $-56.348 \pm 0.058$   $\chi^2/\text{NDF}$ : 9006.1/51

- sign  $-56.882 \pm 0.086$   $\chi^2/\text{NDF}$ : 4939.2/25

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}: 185.2/16$

Left Out:  $-6.189 \pm 0.130$   $\chi^2/\text{NDF}: 1187.5/8$

Right Out:  $3.738 \pm 0.267$   $\chi^2/\text{NDF}: 320.9/18$

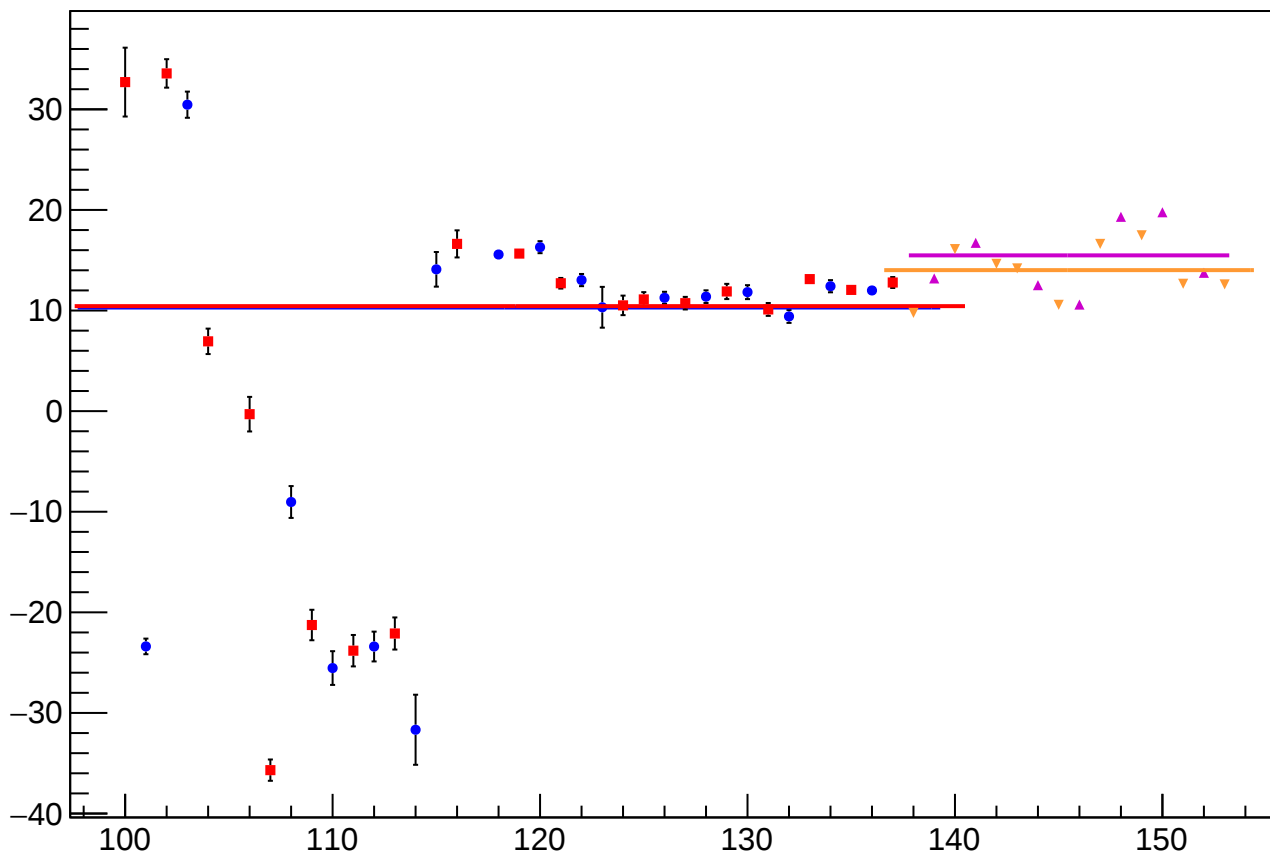
Left In:  $-7.937 \pm 0.138$   $\chi^2/\text{NDF}: 811.7/6$

+ sign  $-4.302 \pm 0.116$   $\chi^2/\text{NDF}: 2426.2/25$

All:  $-4.847 \pm 0.084$   $\chi^2/\text{NDF}: 5113.4/51$

- sign  $-5.461 \pm 0.123$   $\chi^2/\text{NDF}: 2640.0/25$

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In:  $10.301 \pm 0.157$   $\chi^2/\text{NDF}: 3699.4/16$

Left Out:  $14.016 \pm 0.113$   $\chi^2/\text{NDF}: 499.1/8$

Right Out:  $10.437 \pm 0.160$   $\chi^2/\text{NDF}: 3828.8/18$

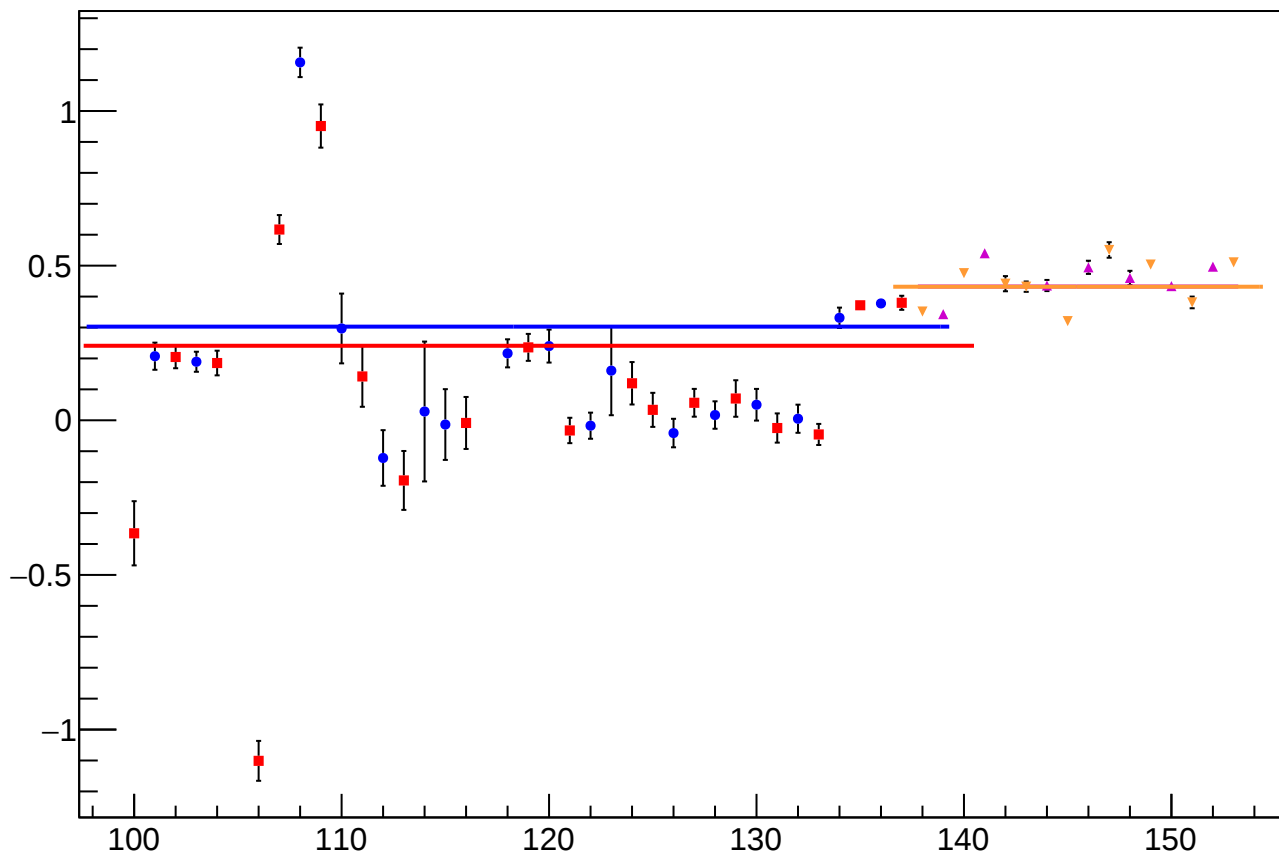
Left In:  $15.484 \pm 0.128$   $\chi^2/\text{NDF}: 637.7/6$

+ sign  $12.744 \pm 0.092$   $\chi^2/\text{NDF}: 4566.9/25$

All:  $13.091 \pm 0.068$   $\chi^2/\text{NDF}: 9671.1/51$

- sign  $13.502 \pm 0.100$   $\chi^2/\text{NDF}: 5073.1/25$

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.303 $\pm$ 0.008  $\chi^2$ /NDF: 647.2/16

Left Out: 0.432 $\pm$ 0.005  $\chi^2$ /NDF:194.4/8

Right Out: 0.241 $\pm$ 0.008  $\chi^2$ /NDF: 988.9/18

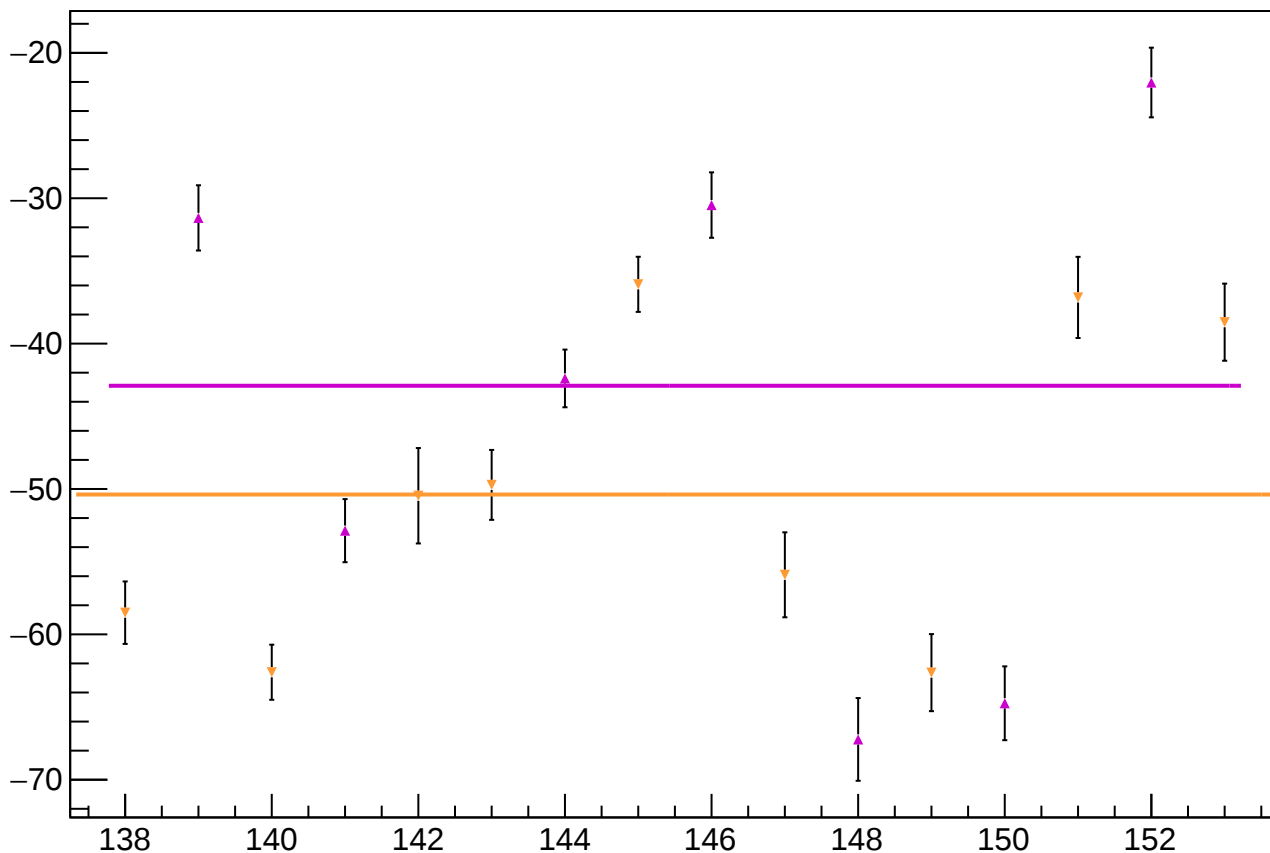
Left In: 0.432 $\pm$ 0.006  $\chi^2$ /NDF:173.0/6

+ sign 0.394 $\pm$ 0.004  $\chi^2$ /NDF: 1017.5/25

All: 0.385 $\pm$ 0.003  $\chi^2$ /NDF: 2545.9/51

- sign 0.376 $\pm$ 0.005  $\chi^2$ /NDF: 1519.6/25

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -50.381+/-0.798  $\chi^2/\text{NDF}$ : 182.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

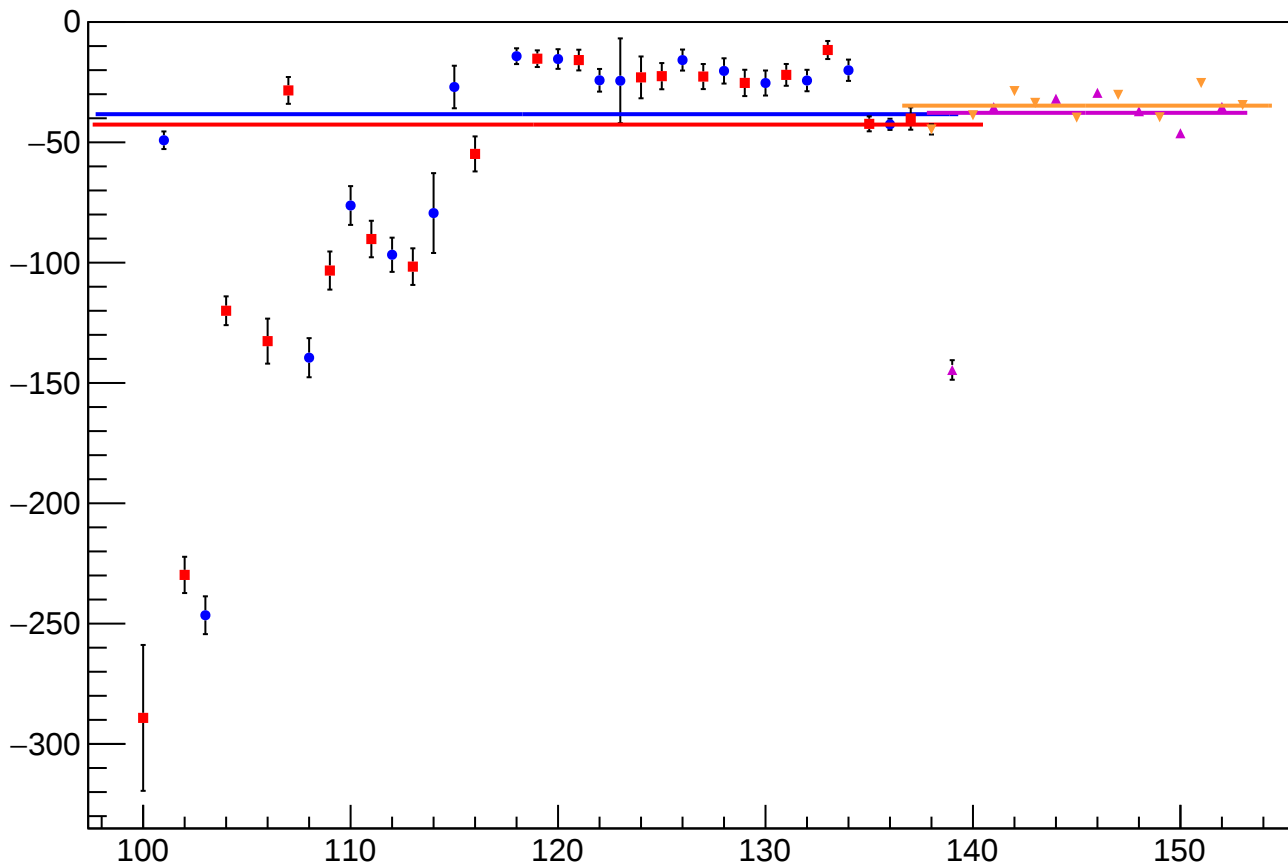
Left In: -42.900+/-0.872  $\chi^2/\text{NDF}$ : 300.9/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -46.970+/-0.589  $\chi^2/\text{NDF}$ : 523.6/15

- 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:  $-34.751 \pm 0.558$   $\chi^2/\text{NDF}: 99.5/8$

Right Out:  $-42.624 \pm 1.209$   $\chi^2/\text{NDF}: 1344.4/18$

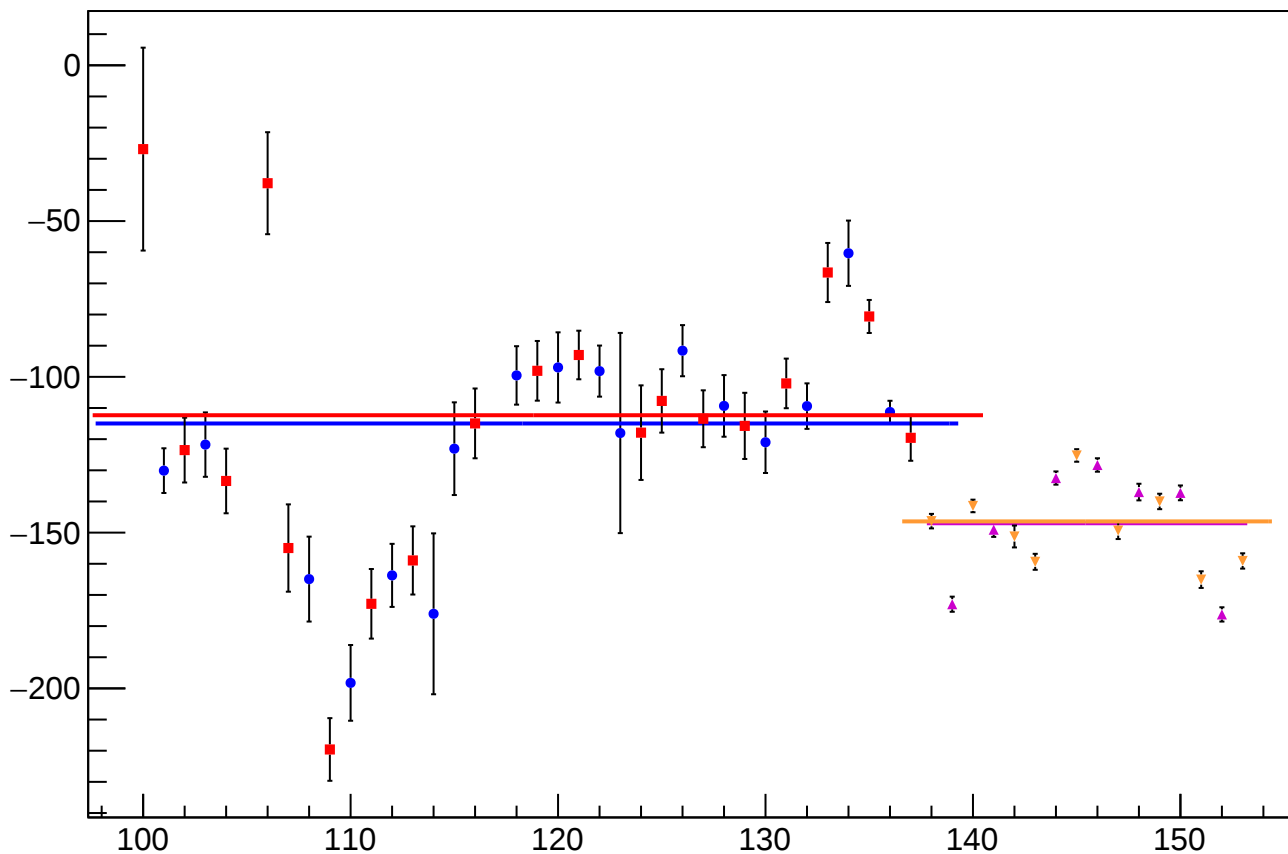
Left In:  $-37.740 \pm 0.612$   $\chi^2/\text{NDF}: 770.9/6$

+ sign  $-35.441 \pm 0.501$   $\chi^2/\text{NDF}: 1240.1/25$

All:  $-36.948 \pm 0.369$   $\chi^2/\text{NDF}: 3388.2/51$

- sign  $-38.738 \pm 0.546$   $\chi^2/\text{NDF}: 2128.3/25$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}: 141.4/16$

Left Out:  $-146.396 \pm 0.814$   $\chi^2/\text{NDF}: 226.9/8$

Right Out:  $-112.320 \pm 2.205$   $\chi^2/\text{NDF}: 274.0/18$

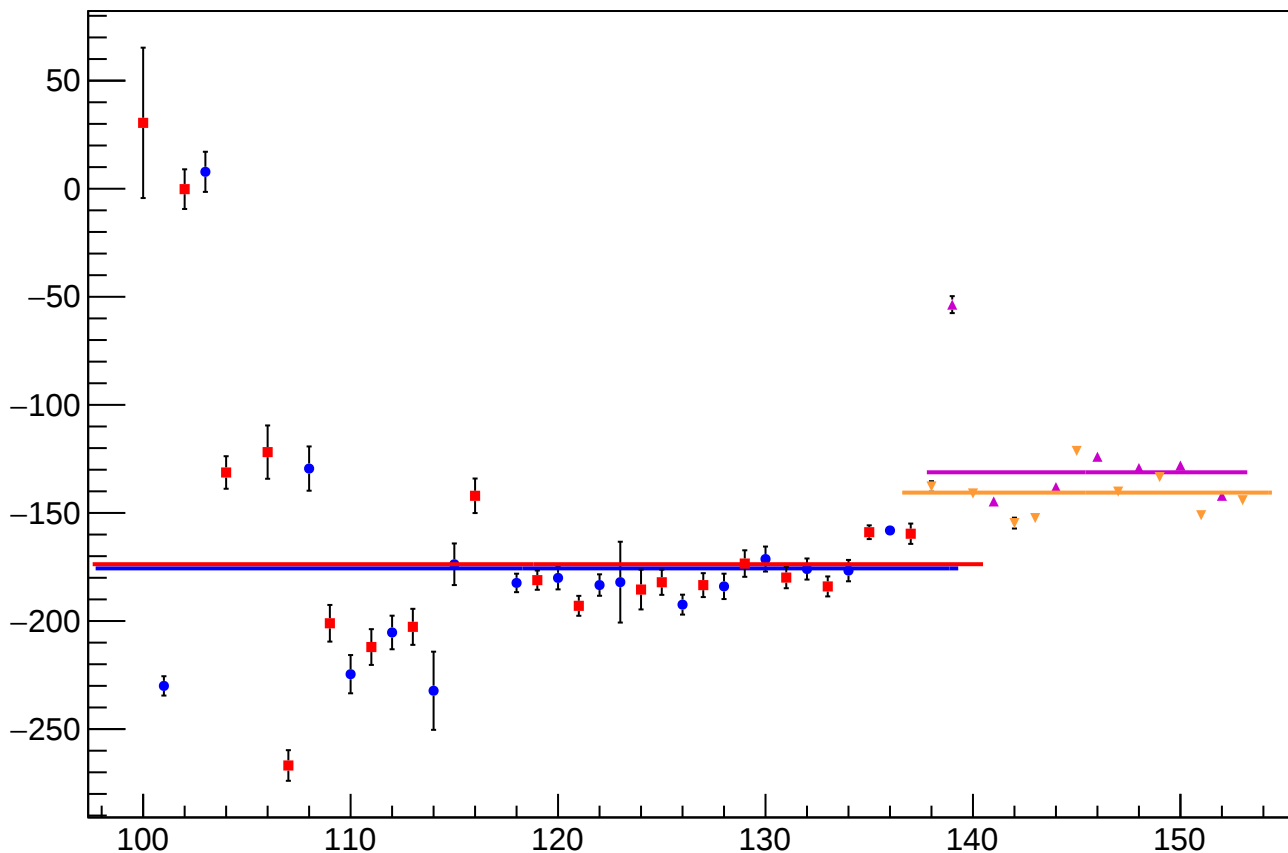
Left In:  $-146.992 \pm 0.877$   $\chi^2/\text{NDF}: 430.9/6$

+ sign  $-142.207 \pm 0.757$   $\chi^2/\text{NDF}: 567.2/25$

All:  $-142.232 \pm 0.555$   $\chi^2/\text{NDF}: 1485.6/51$

- sign  $-142.261 \pm 0.815$   $\chi^2/\text{NDF}: 918.4/25$

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In: -175.651+/-1.269  $\chi^2/\text{NDF}$ : 692.1/16

Left Out: -140.588+/-0.681  $\chi^2/\text{NDF}$ : 227.4/8

Right Out: -173.714+/-1.354  $\chi^2/\text{NDF}$ : 738.0/18

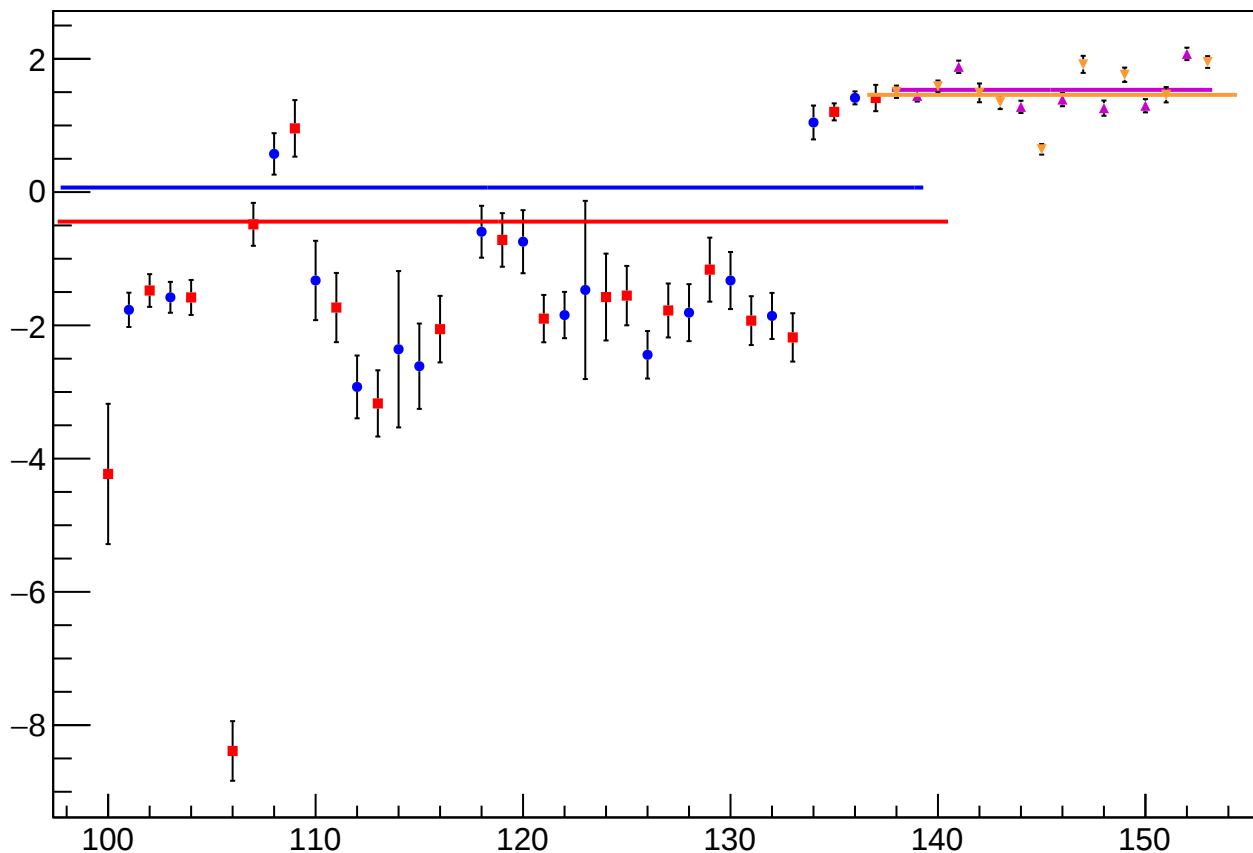
Left In: -131.193+/-0.750  $\chi^2/\text{NDF}$ : 507.2/6

+ sign -148.424+/-0.600  $\chi^2/\text{NDF}$ : 1512.2/25

All: -145.119+/-0.443  $\chi^2/\text{NDF}$ : 3578.7/51

- sign -141.169+/-0.656  $\chi^2/\text{NDF}$ : 1999.9/25

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In: 0.068 $\pm$ 0.067  $\chi^2$ /NDF: 525.9/16

Left Out: 1.459 $\pm$ 0.033  $\chi^2$ /NDF: 162.3/8

Right Out: -0.443 $\pm$ 0.071  $\chi^2$ /NDF: 755.9/18

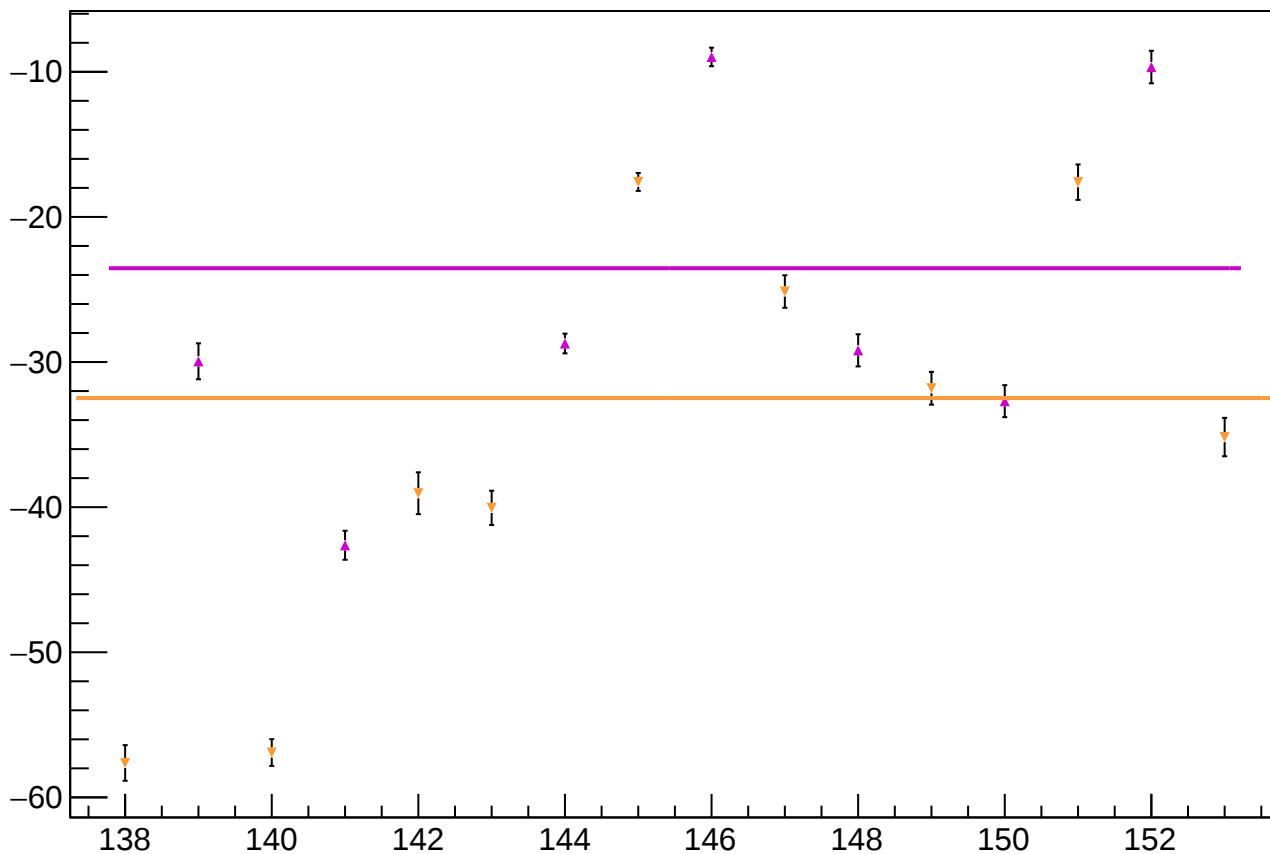
Left In: 1.535 $\pm$ 0.036  $\chi^2$ /NDF: 69.7/6

+ sign 1.184 $\pm$ 0.030  $\chi^2$ /NDF: 1033.8/25

All: 1.157 $\pm$ 0.022  $\chi^2$ /NDF: 2474.9/51

- sign 1.126 $\pm$ 0.032  $\chi^2$ /NDF: 1439.4/25

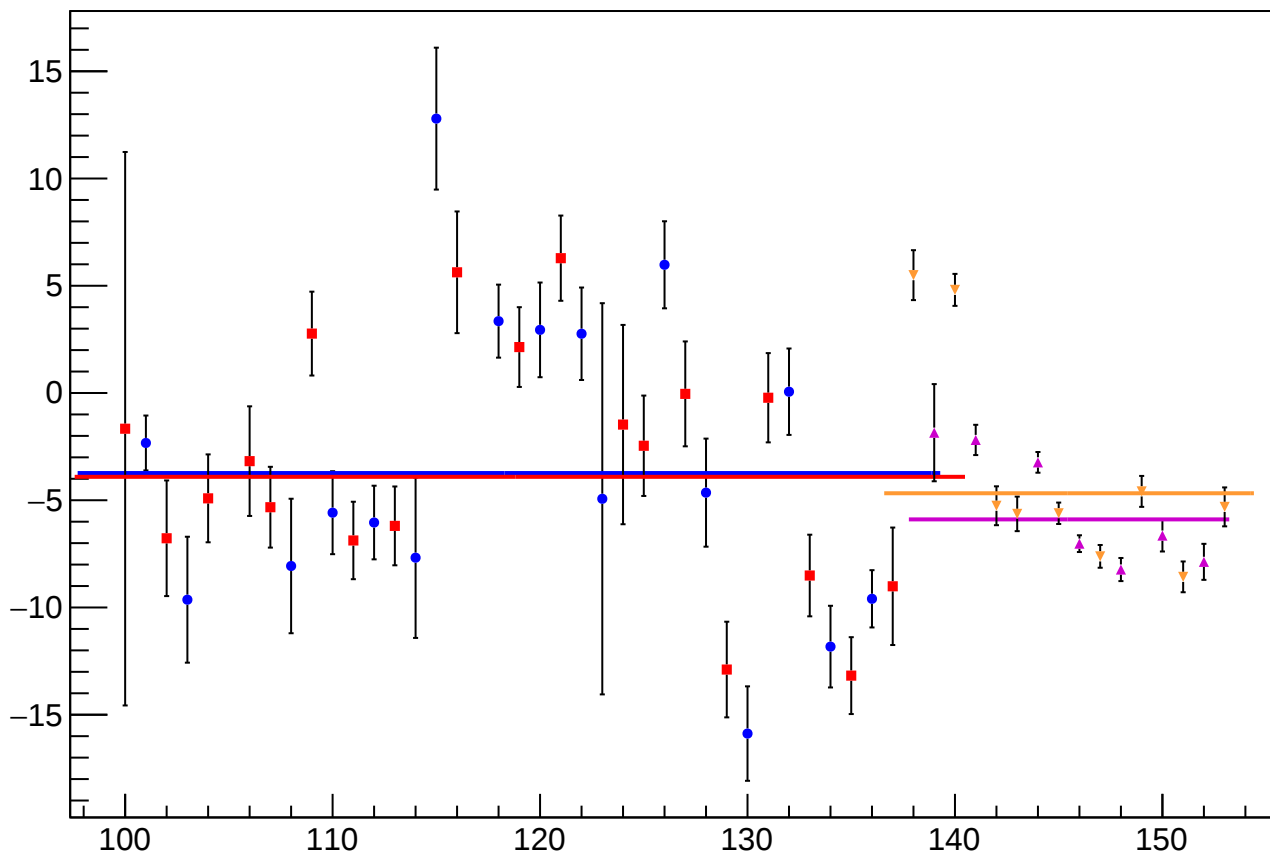
# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.480+/-0.343  $\chi^2/\text{NDF}$ :1959.4/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -23.536+/-0.339  $\chi^2/\text{NDF}$ :1219.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -27.948+/-0.241  $\chi^2/\text{NDF}$ : 3522.2/15  
 - 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:  $-4.674 \pm 0.236$   $\chi^2/\text{NDF}$ : 304.3/8

Right Out:  $-3.908 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.8/18

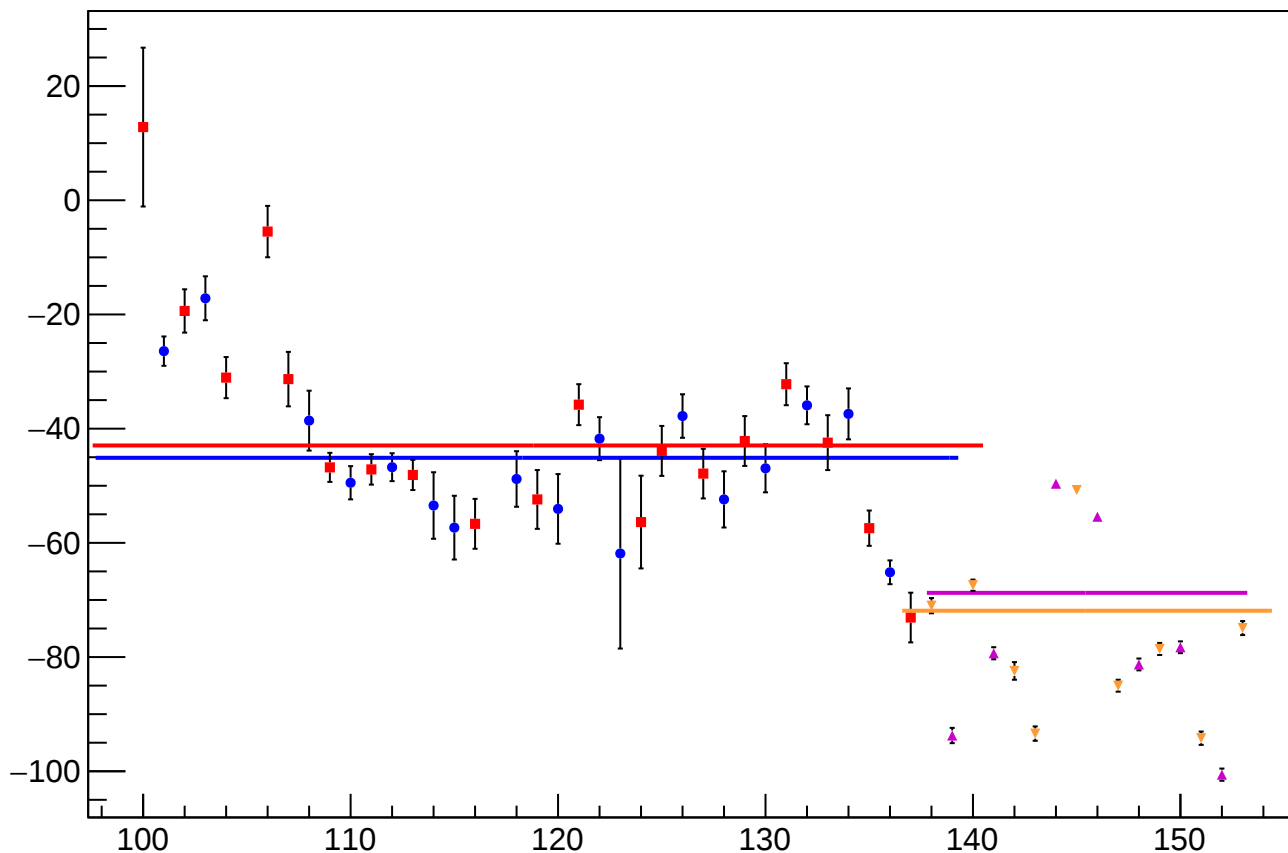
Left In:  $-5.893 \pm 0.225$   $\chi^2/\text{NDF}$ : 94.9/6

+ sign  $-4.500 \pm 0.213$   $\chi^2/\text{NDF}$ : 473.1/25

All:  $-5.052 \pm 0.148$   $\chi^2/\text{NDF}$ : 718.5/51

- sign  $-5.566 \pm 0.206$   $\chi^2/\text{NDF}$ : 232.5/25

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-71.886 \pm 0.350$   $\chi^2/\text{NDF}$ : 1967.7/8

Right Out:  $-42.944 \pm 0.877$   $\chi^2/\text{NDF}$ : 249.1/18

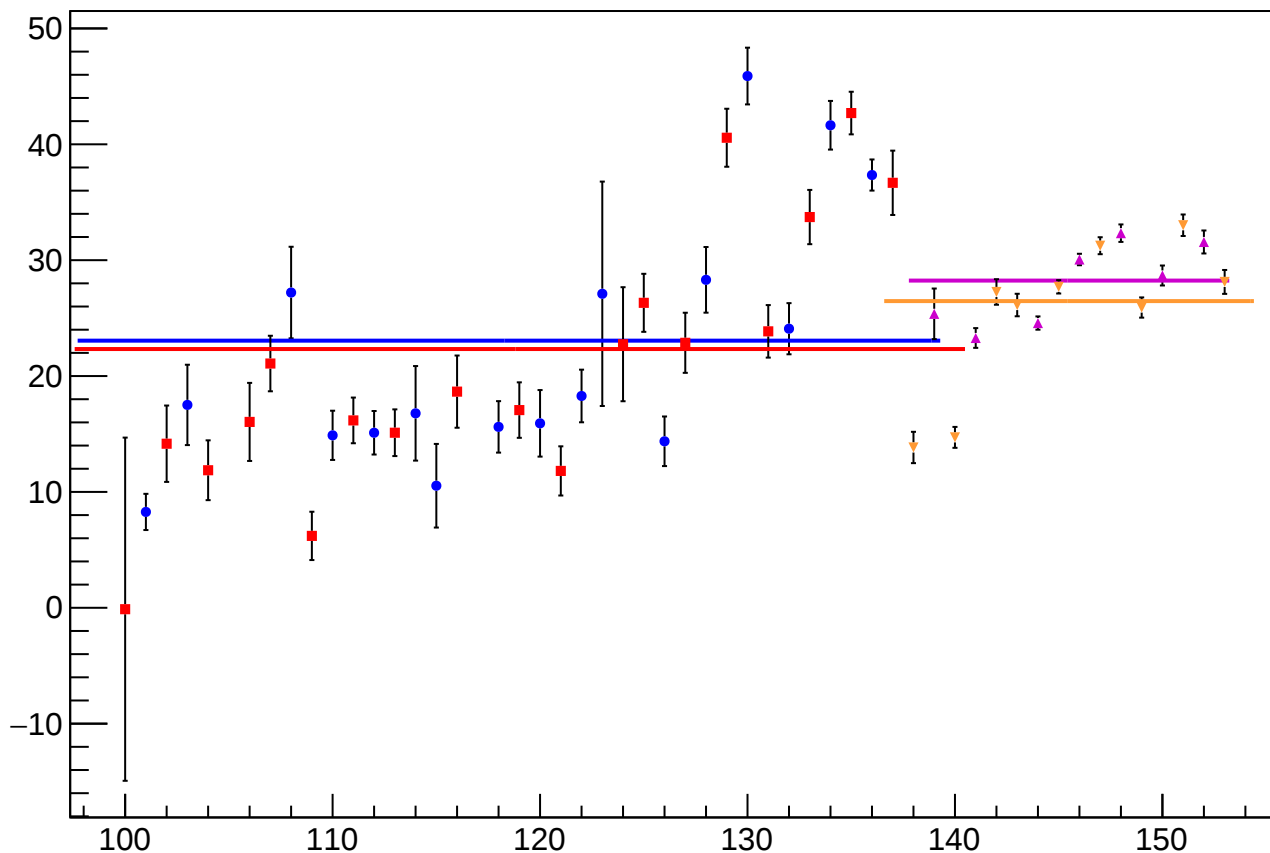
Left In:  $-68.754 \pm 0.338$   $\chi^2/\text{NDF}$ : 2724.7/6

+ sign  $-68.254 \pm 0.325$   $\chi^2/\text{NDF}$ : 2994.4/25

All:  $-66.792 \pm 0.226$   $\chi^2/\text{NDF}$ : 6760.7/51

- sign  $-65.412 \pm 0.316$   $\chi^2/\text{NDF}$ : 3727.0/25

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 26.469 $\pm$ 0.289  $\chi^2$ /NDF: 357.6/8

Right Out: 22.331 $\pm$ 0.572  $\chi^2$ /NDF: 371.1/18

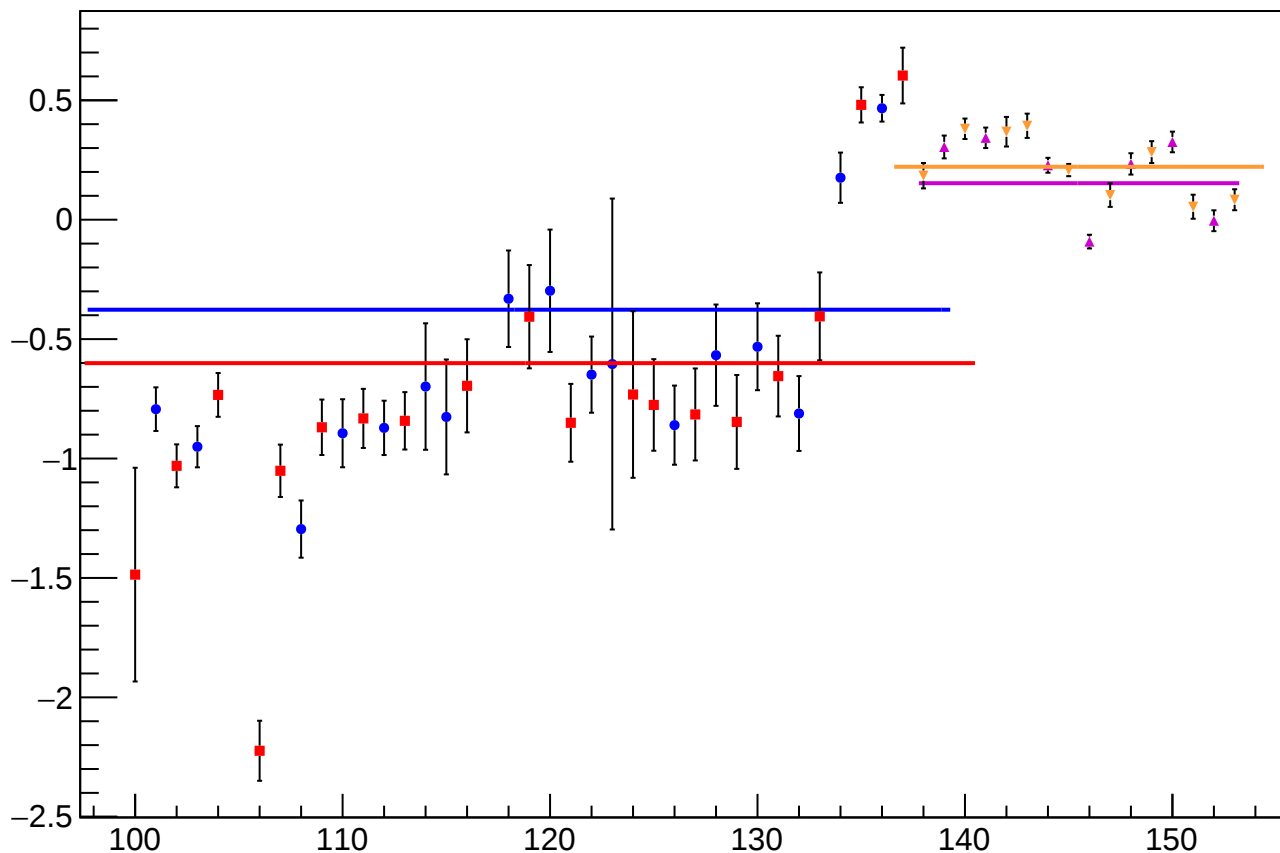
Left In: 28.239 $\pm$ 0.279  $\chi^2$ /NDF: 131.0/6

+ sign 25.744 $\pm$ 0.257  $\chi^2$ /NDF: 848.4/25

All: 26.440 $\pm$ 0.179  $\chi^2$ /NDF: 1450.8/51

- sign 27.104 $\pm$ 0.251  $\chi^2$ /NDF: 588.1/25

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}$ : 437.4/16

Left Out:  $0.222 \pm 0.014$   $\chi^2/\text{NDF}$ : 60.1/8

Right Out:  $-0.601 \pm 0.030$   $\chi^2/\text{NDF}$ : 555.2/18

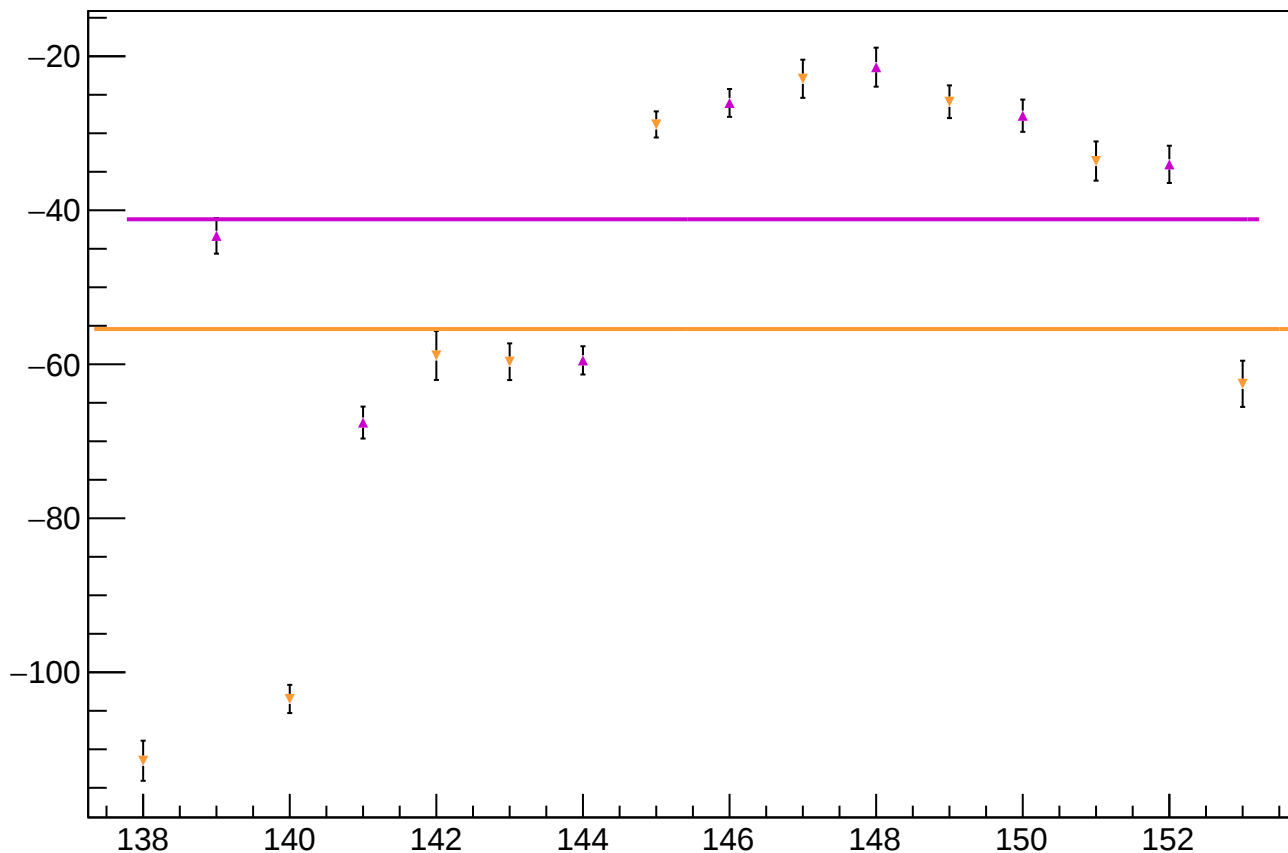
Left In:  $0.153 \pm 0.014$   $\chi^2/\text{NDF}$ : 140.5/6

+ sign  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 819.6/25

All:  $0.062 \pm 0.009$   $\chi^2/\text{NDF}$ : 2051.1/51

- sign  $0.012 \pm 0.013$   $\chi^2/\text{NDF}$ : 1202.6/25

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -55.422+/-0.763  $\chi^2/\text{NDF}$ :1844.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

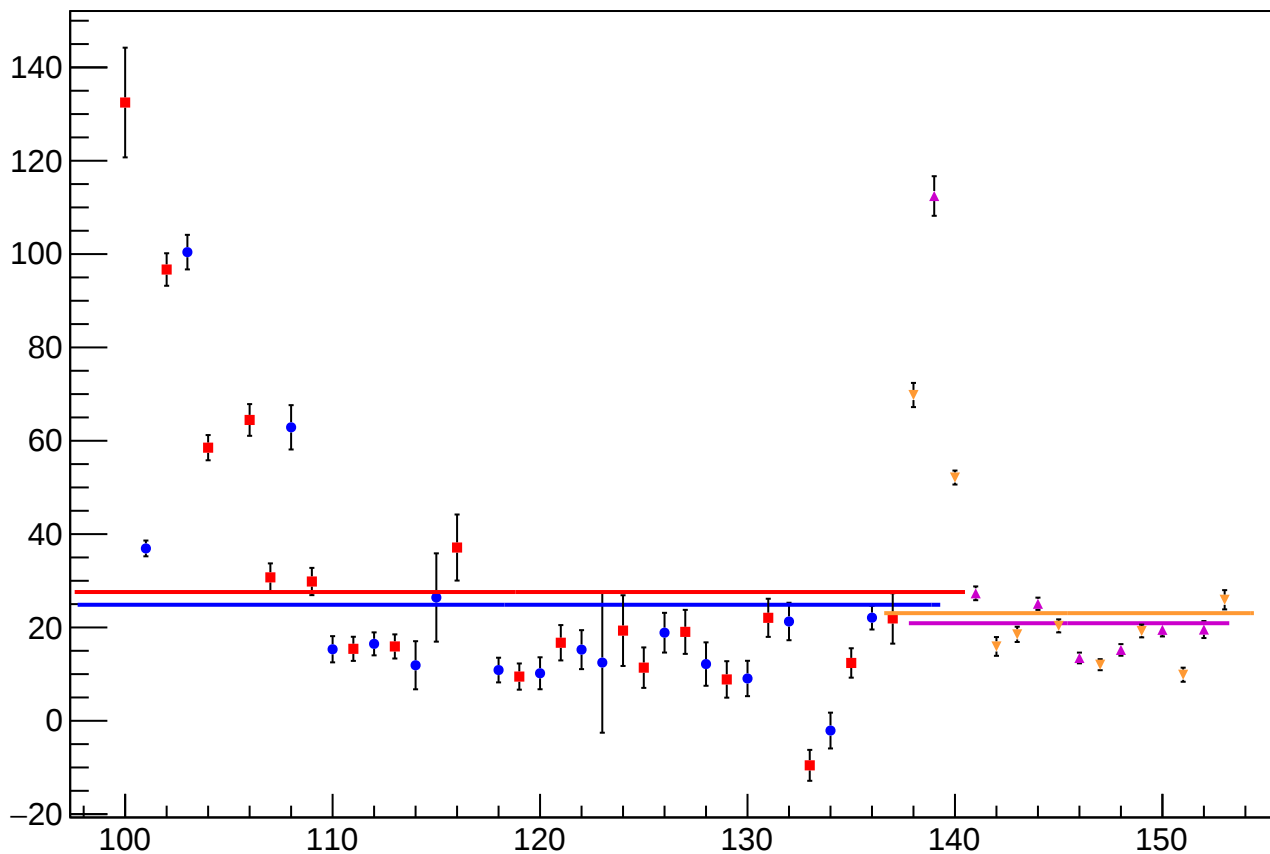
Left In: -41.171+/-0.796  $\chi^2/\text{NDF}$ :442.9/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -48.603+/-0.551  $\chi^2/\text{NDF}$ : 2454.8/15

- 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: 23.065 $\pm$ 0.524  $\chi^2$ /NDF: 897.6/8

Right Out: 27.593 $\pm$ 0.810  $\chi^2$ /NDF: 1010.9/18

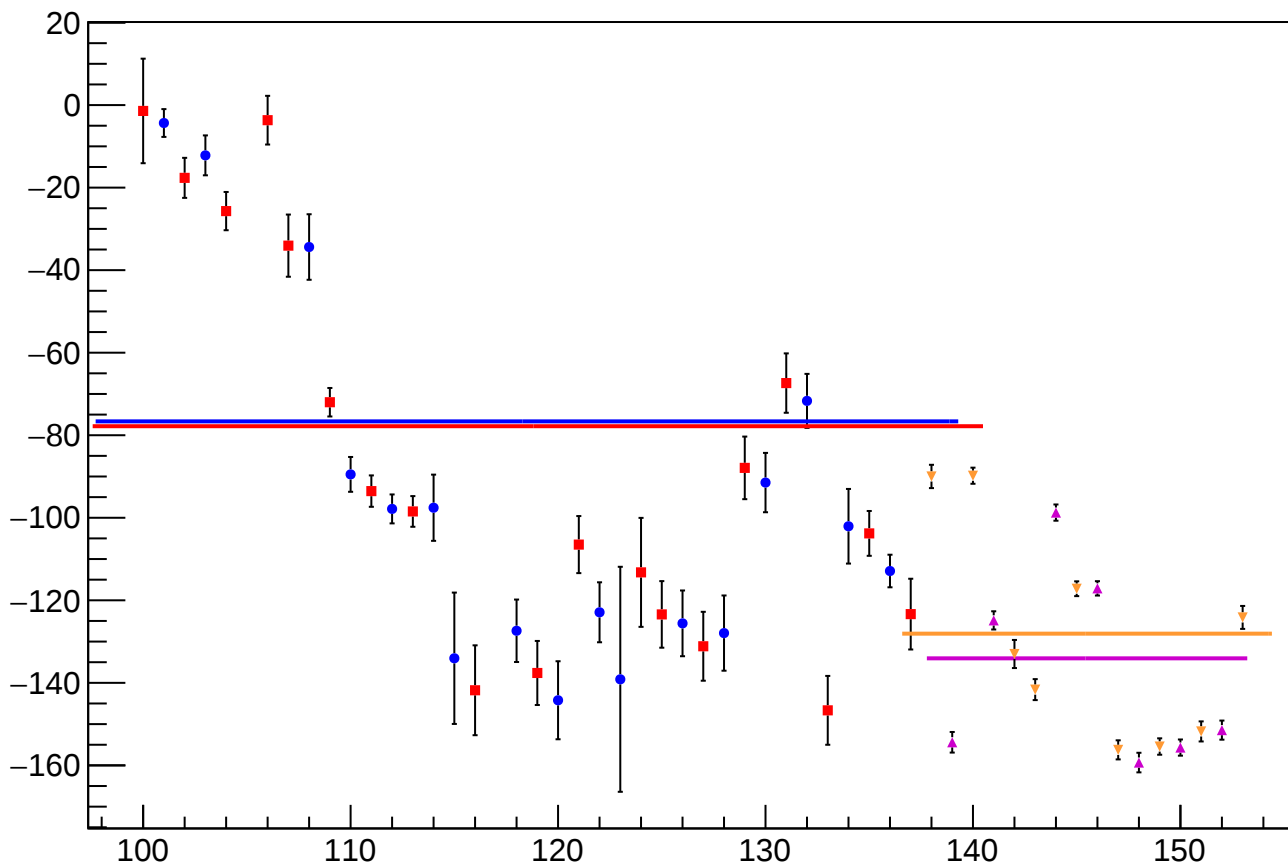
Left In: 20.908 $\pm$ 0.551  $\chi^2$ /NDF: 559.0/6

+ sign 23.602 $\pm$ 0.438  $\chi^2$ /NDF: 1592.1/25

All: 23.323 $\pm$ 0.316  $\chi^2$ /NDF: 3209.6/51

- sign 23.022 $\pm$ 0.455  $\chi^2$ /NDF: 1616.6/25

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}$ : 1040.7/16

Left Out:  $-128.081 \pm 0.772$   $\chi^2/\text{NDF}$ : 1068.5/8

Right Out:  $-77.815 \pm 1.352$   $\chi^2/\text{NDF}$ : 873.3/18

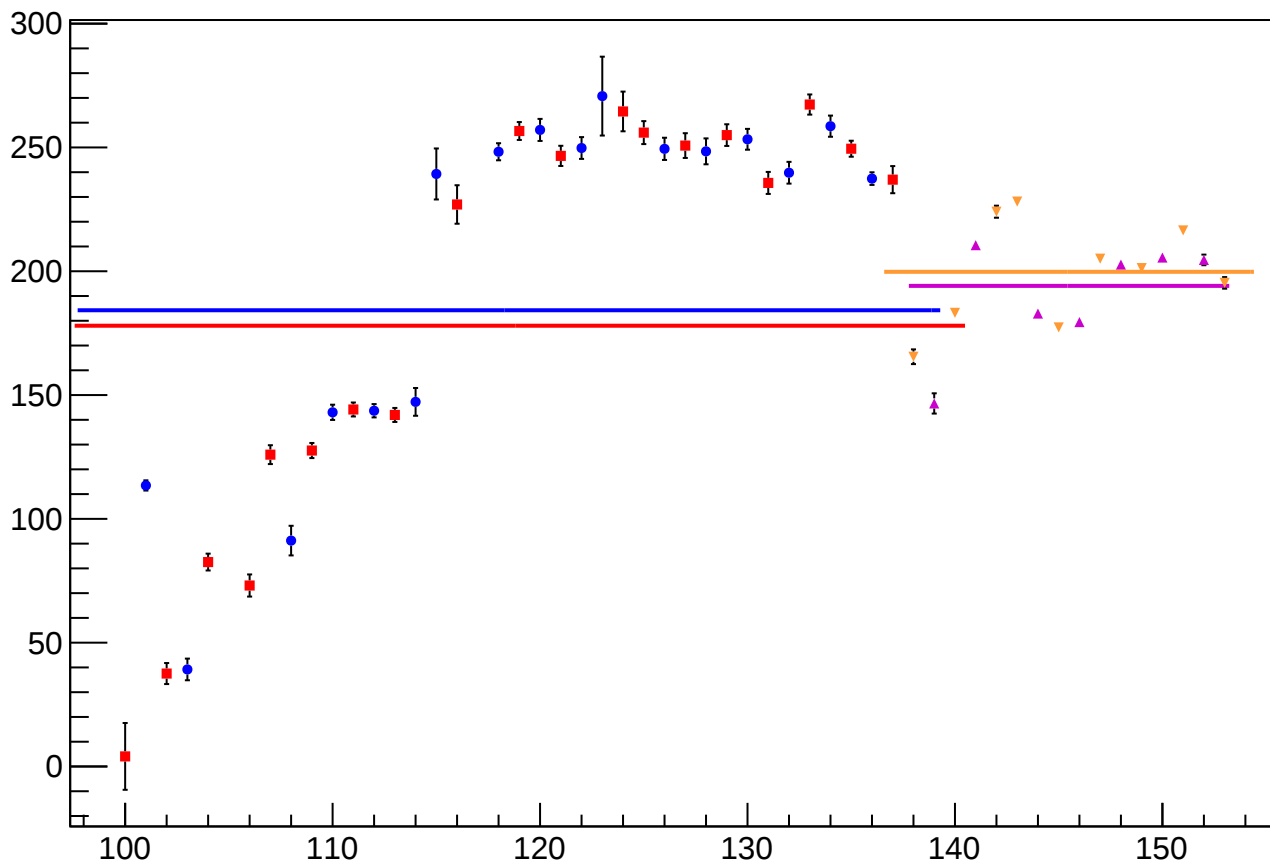
Left In:  $-134.064 \pm 0.796$   $\chi^2/\text{NDF}$ : 792.8/6

+ sign  $-116.285 \pm 0.678$   $\chi^2/\text{NDF}$ : 3128.0/25

All:  $-117.921 \pm 0.482$   $\chi^2/\text{NDF}$ : 6091.3/51

- sign  $-119.597 \pm 0.686$   $\chi^2/\text{NDF}$ : 2951.5/25

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 199.775 $\pm$ 0.641  $\chi^2$ /NDF: 810.1/8

Right Out: 178.003 $\pm$ 0.924  $\chi^2$ /NDF: 6338.0/18

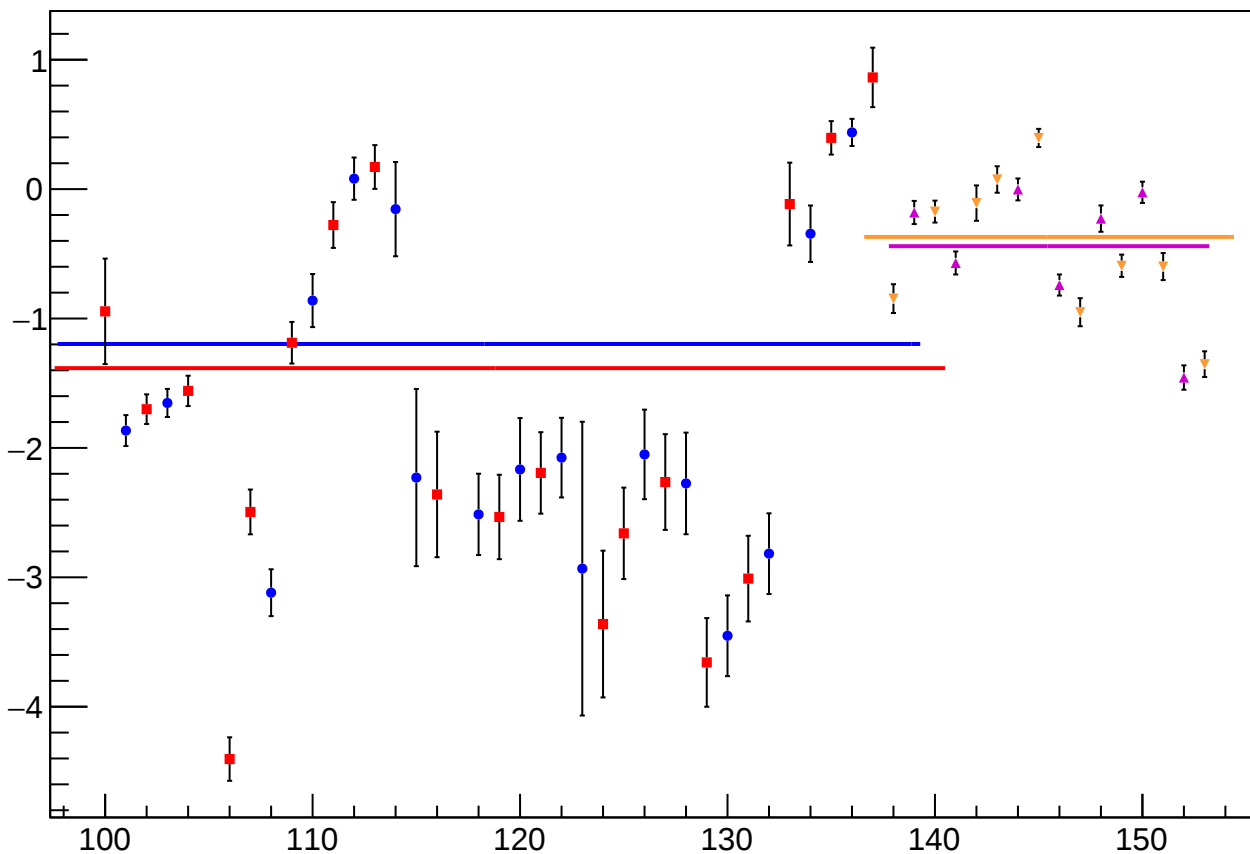
Left In: 194.092 $\pm$ 0.674  $\chi^2$ /NDF: 473.5/6

+ sign 194.661 $\pm$ 0.525  $\chi^2$ /NDF: 6391.7/25

All: 191.692 $\pm$ 0.378  $\chi^2$ /NDF: 13467.6/51

- sign 188.502 $\pm$ 0.544  $\chi^2$ /NDF: 7009.6/25

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.369 \pm 0.032$   $\chi^2/\text{NDF}$ : 302.5/8

Right Out:  $-1.383 \pm 0.046$   $\chi^2/\text{NDF}$ : 923.4/18

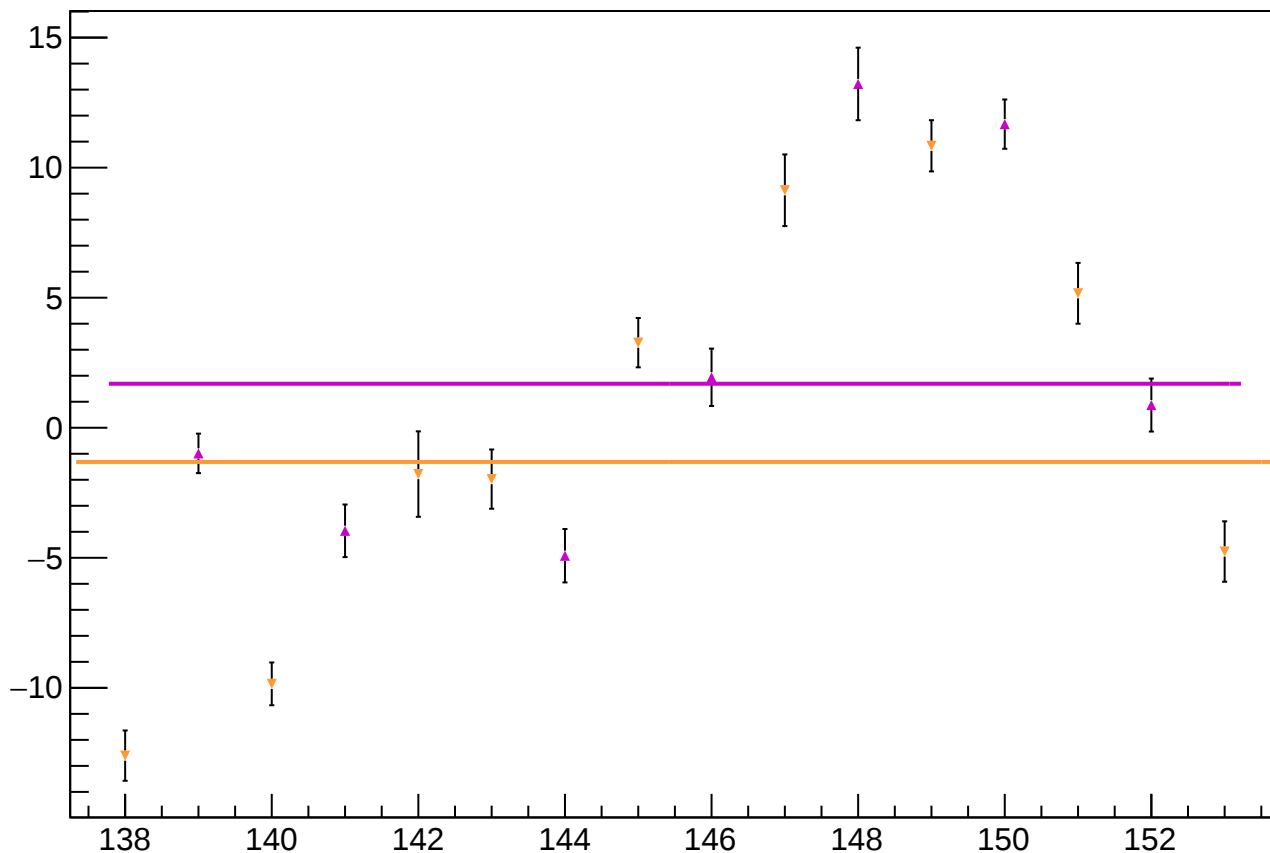
Left In:  $-0.441 \pm 0.033$   $\chi^2/\text{NDF}$ : 197.4/6

+ sign  $-0.622 \pm 0.027$   $\chi^2/\text{NDF}$ : 1129.3/25

All:  $-0.694 \pm 0.019$   $\chi^2/\text{NDF}$ : 2542.0/51

- sign  $-0.768 \pm 0.027$   $\chi^2/\text{NDF}$ : 1397.7/25

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.315+/-0.357  $\chi^2/\text{NDF}$ : 517.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

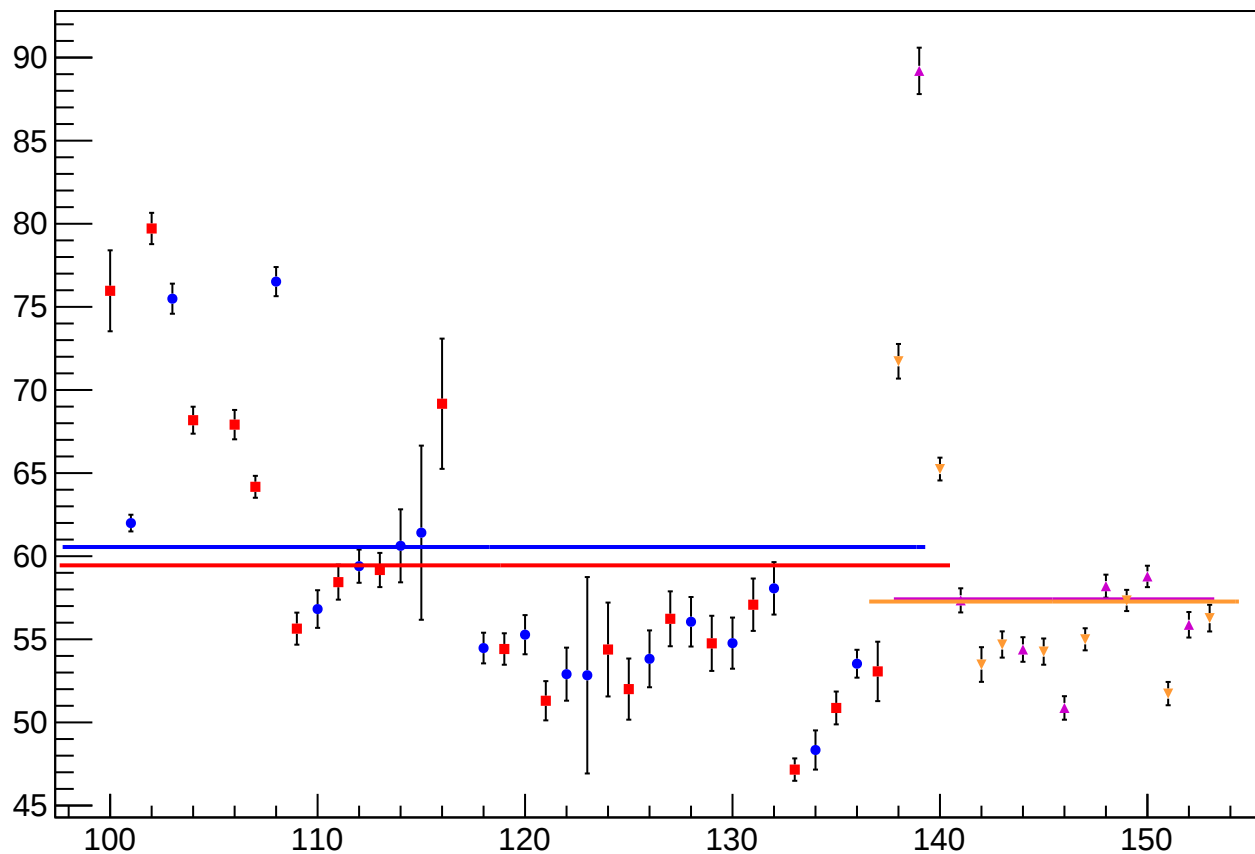
Left In: 1.692+/-0.376  $\chi^2/\text{NDF}$ : 265.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.113+/-0.259  $\chi^2/\text{NDF}$ : 815.9/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In:  $60.552 \pm 0.262$   $\chi^2/\text{NDF}: 931.0/16$

Left Out:  $57.272 \pm 0.254$   $\chi^2/\text{NDF}: 441.6/8$

Right Out:  $59.449 \pm 0.248$   $\chi^2/\text{NDF}: 1321.3/18$

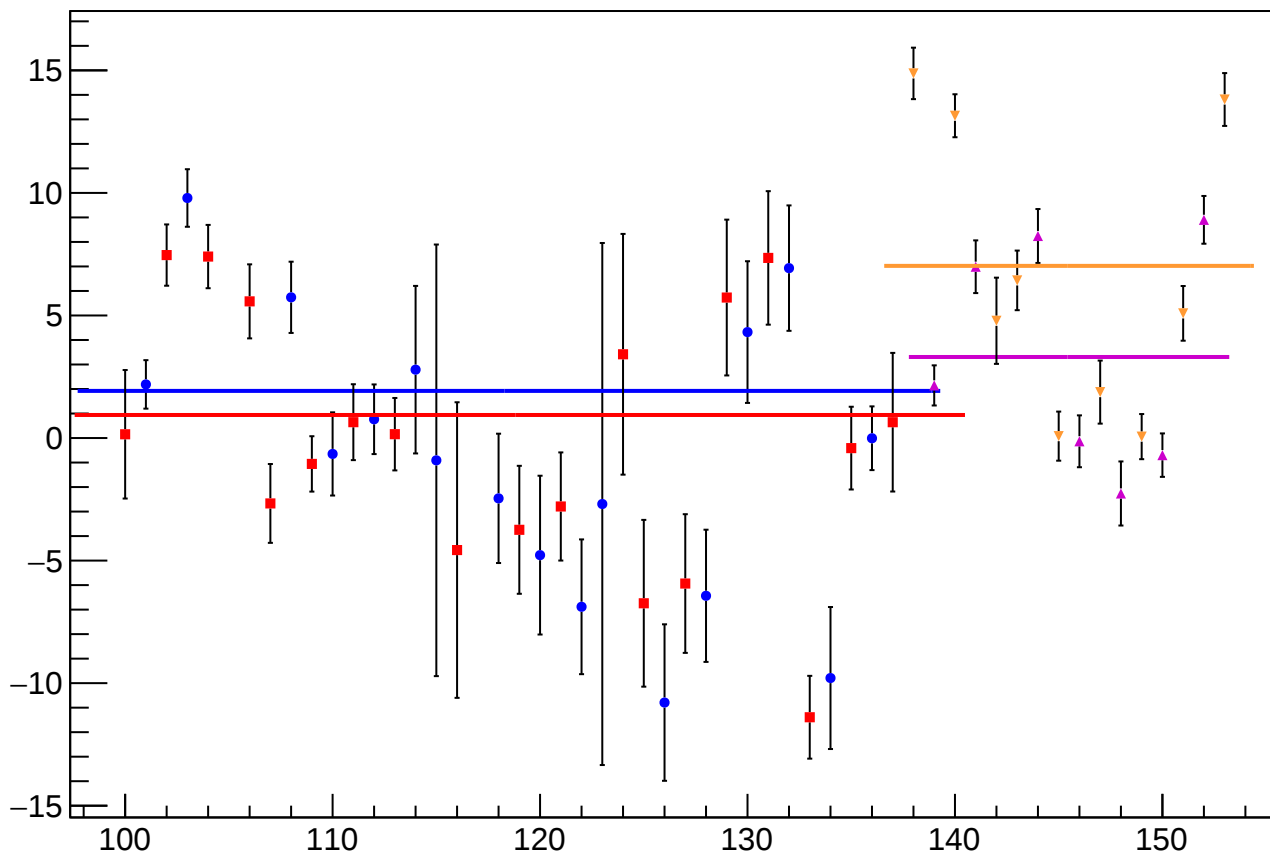
Left In:  $57.405 \pm 0.284$   $\chi^2/\text{NDF}: 630.4/6$

+ sign  $58.863 \pm 0.182$   $\chi^2/\text{NDF}: 1453.5/25$

All:  $58.718 \pm 0.130$   $\chi^2/\text{NDF}: 3435.9/51$

- sign  $58.565 \pm 0.187$   $\chi^2/\text{NDF}: 1981.1/25$

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}$ : 121.1/16

Left Out:  $7.024 \pm 0.361$   $\chi^2/\text{NDF}$ : 270.6/8

Right Out:  $0.941 \pm 0.424$   $\chi^2/\text{NDF}$ : 150.2/18

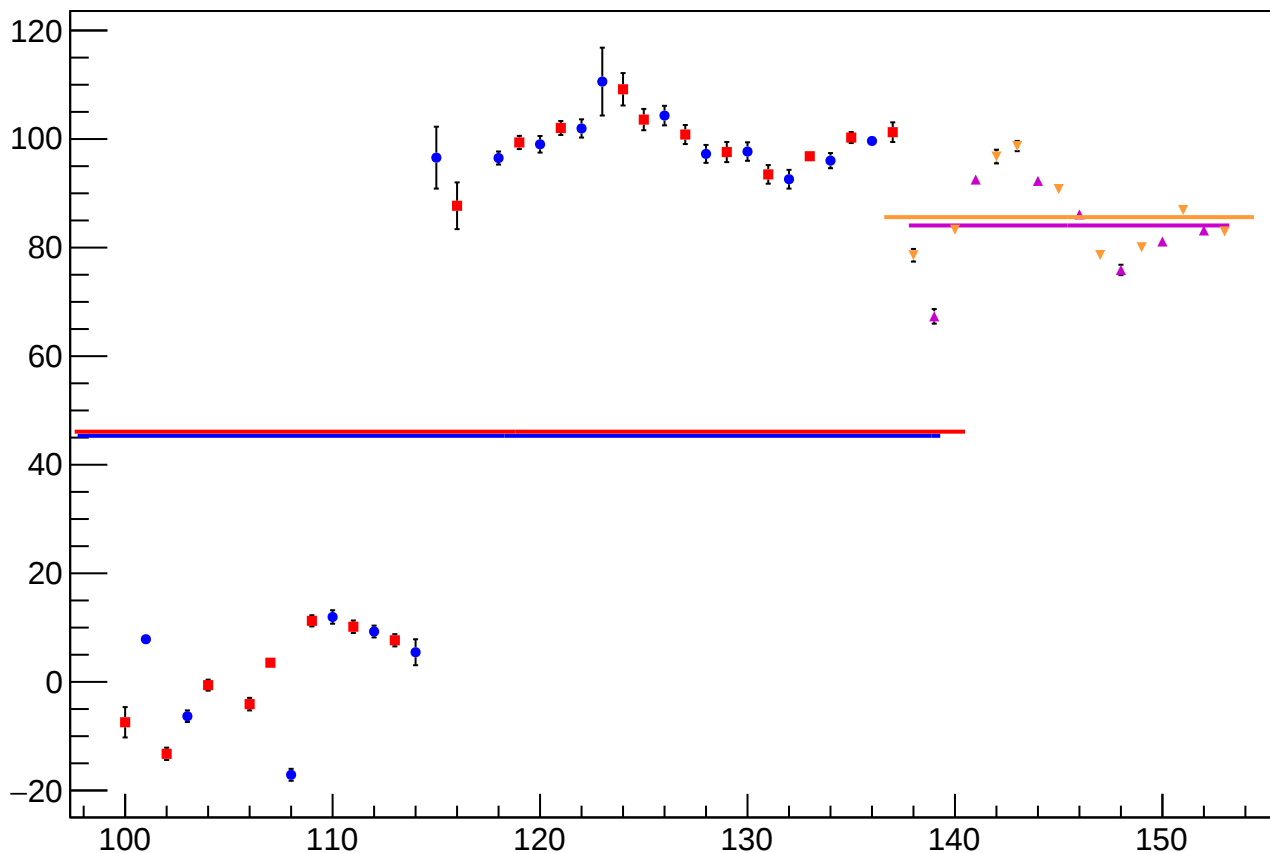
Left In:  $3.307 \pm 0.378$   $\chi^2/\text{NDF}$ : 116.0/6

+ sign  $5.067 \pm 0.284$   $\chi^2/\text{NDF}$ : 468.1/25

All:  $3.655 \pm 0.200$   $\chi^2/\text{NDF}$ : 800.9/51

- sign  $2.258 \pm 0.282$   $\chi^2/\text{NDF}$ : 283.5/25

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 85.615 $\pm$ 0.308  $\chi^2$ /NDF: 469.5/8

Right Out: 46.094 $\pm$ 0.289  $\chi^2$ /NDF: 28267.6/18

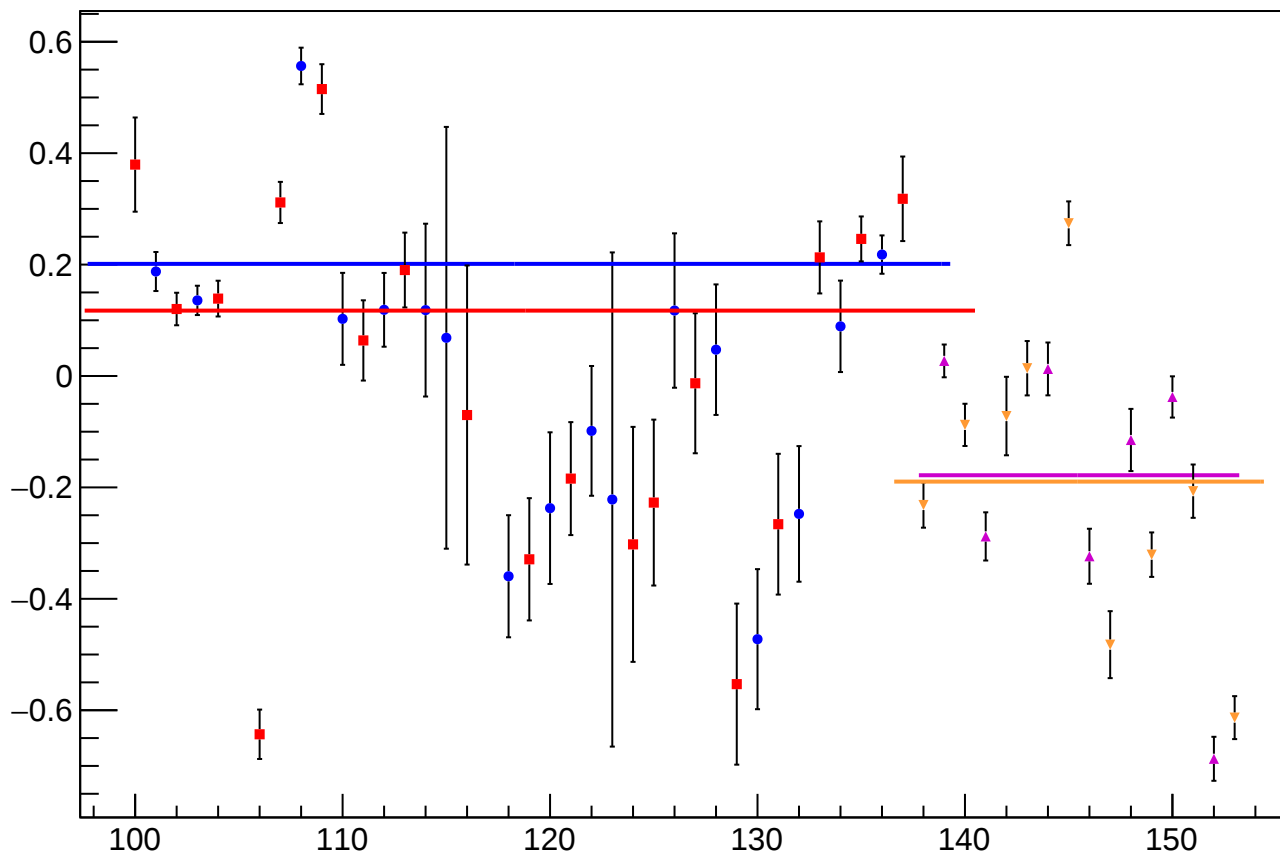
Left In: 84.078 $\pm$ 0.341  $\chi^2$ /NDF: 433.2/6

+ sign 65.199 $\pm$ 0.216  $\chi^2$ /NDF: 34159.7/25

All: 63.631 $\pm$ 0.154  $\chi^2$ /NDF: 70191.5/51

- sign 62.000 $\pm$ 0.220  $\chi^2$ /NDF: 35924.5/25

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.190 \pm 0.015$   $\chi^2/\text{NDF}$ : 323.5/8

Right Out:  $0.117 \pm 0.013$   $\chi^2/\text{NDF}$ : 499.5/18

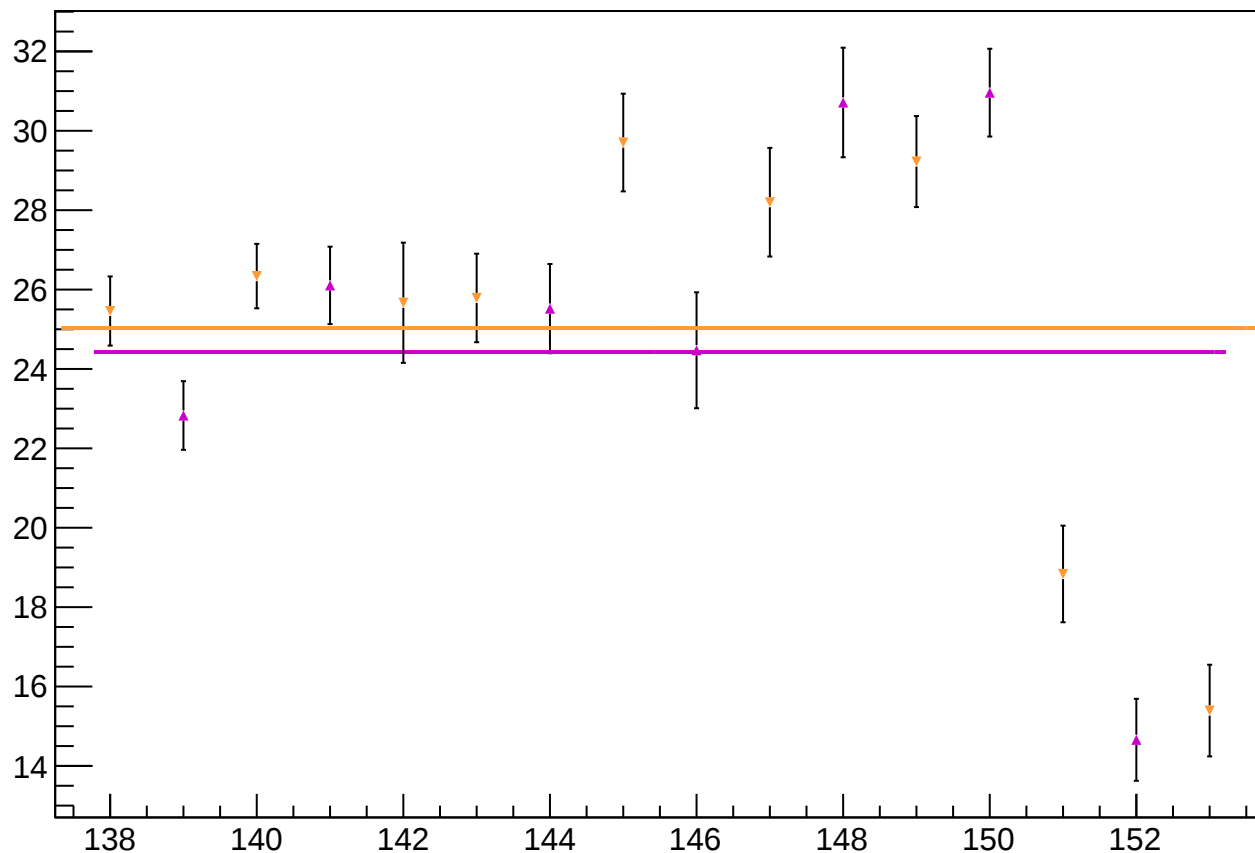
Left In:  $-0.178 \pm 0.015$   $\chi^2/\text{NDF}$ : 261.8/6

+ sign  $0.016 \pm 0.010$   $\chi^2/\text{NDF}$ : 908.6/25

All:  $0.005 \pm 0.007$   $\chi^2/\text{NDF}$ : 1887.6/51

- sign  $-0.006 \pm 0.010$   $\chi^2/\text{NDF}$ : 976.7/25

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 25.030+/-0.366  $\chi^2/\text{NDF}$ :132.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

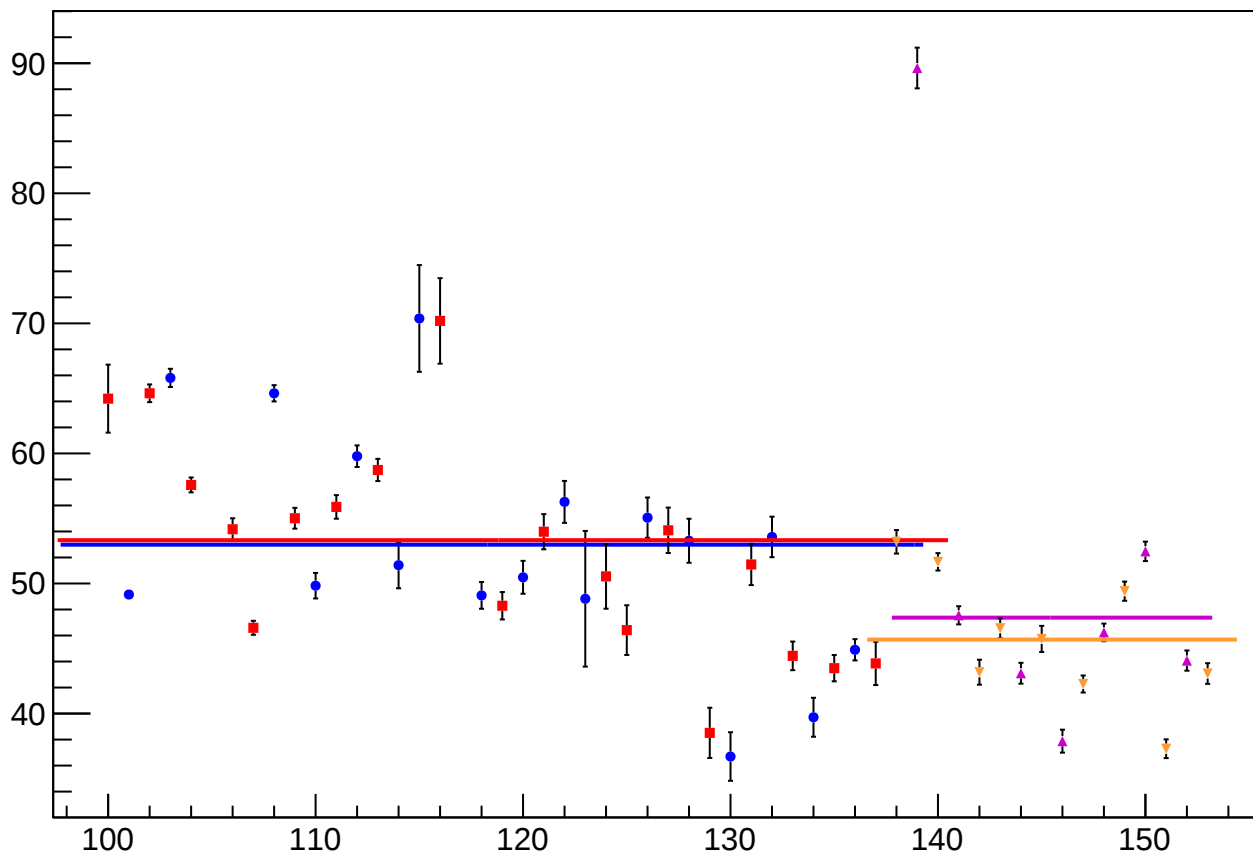
Left In: 24.426+/-0.411  $\chi^2/\text{NDF}$ :152.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.763+/-0.273  $\chi^2/\text{NDF}$ : 285.9/15

- 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: 45.685 $\pm$ 0.259  $\chi^2$ /NDF: 355.6/8

Right Out: 53.330 $\pm$ 0.227  $\chi^2$ /NDF: 873.8/18

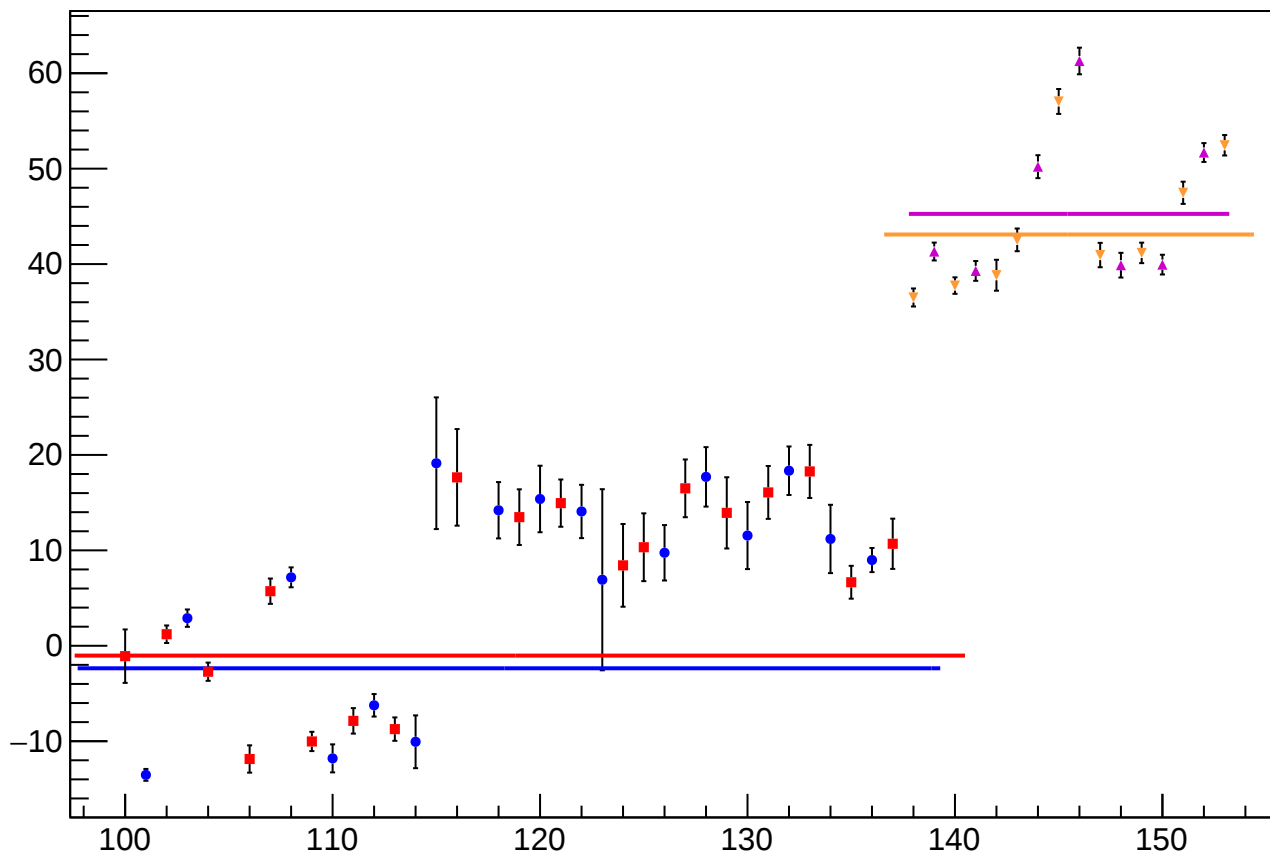
Left In: 47.374 $\pm$ 0.303  $\chi^2$ /NDF: 942.3/6

+ sign 50.087 $\pm$ 0.163  $\chi^2$ /NDF: 2031.8/25

All: 50.582 $\pm$ 0.121  $\chi^2$ /NDF: 4116.6/51

- sign 51.192 $\pm$ 0.181  $\chi^2$ /NDF: 2064.4/25

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $43.099 \pm 0.372$   $\chi^2/\text{NDF}$ : 304.8/8

Right Out:  $-1.030 \pm 0.377$   $\chi^2/\text{NDF}$ : 507.8/18

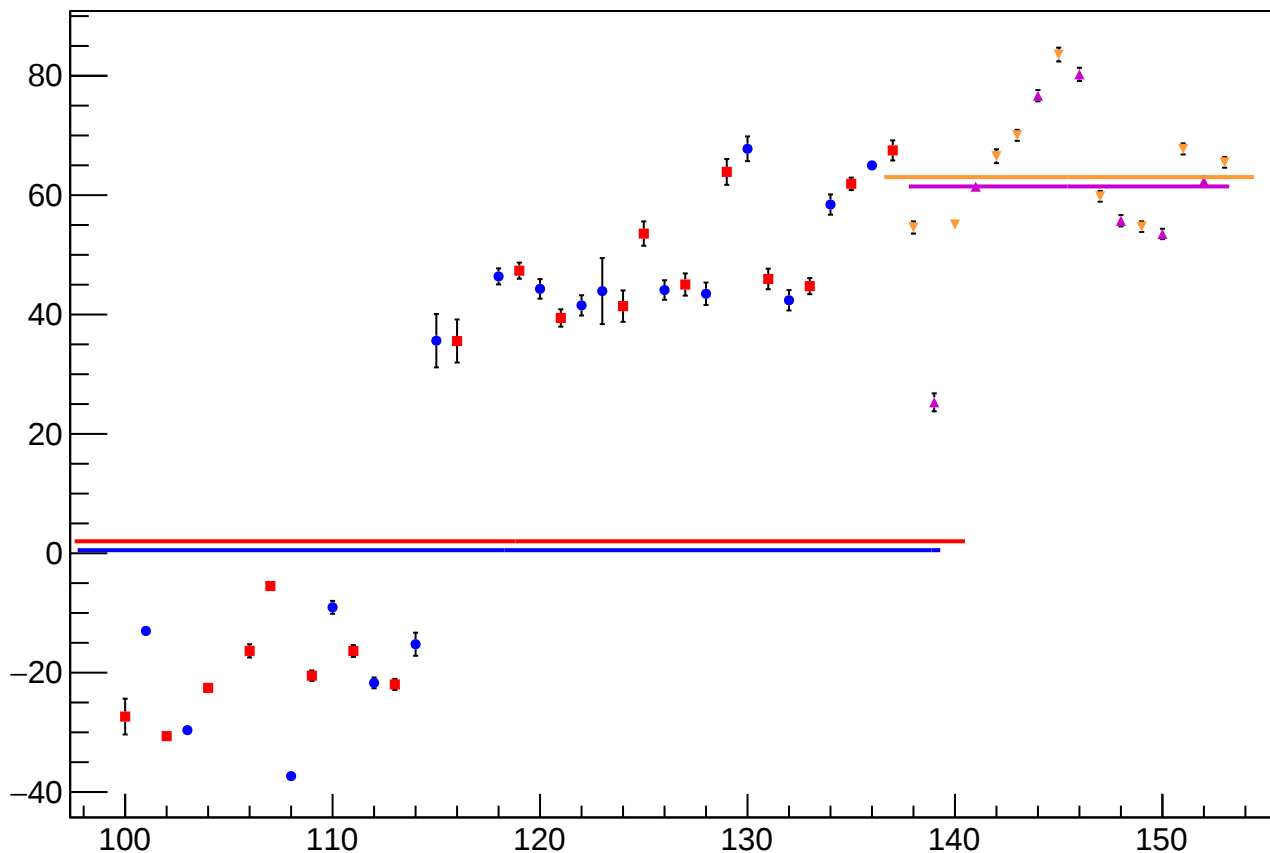
Left In:  $45.260 \pm 0.414$   $\chi^2/\text{NDF}$ : 285.8/6

+ sign  $19.879 \pm 0.260$   $\chi^2/\text{NDF}$ : 8767.2/25

All:  $19.908 \pm 0.190$   $\chi^2/\text{NDF}$ : 16397.7/51

- sign  $19.940 \pm 0.279$   $\chi^2/\text{NDF}$ : 7630.5/25

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In: 0.518+/-0.247  $\chi^2/\text{NDF}$ : 18386.0/16

Left Out: 63.032+/-0.315  $\chi^2/\text{NDF}$ : 680.1/8

Right Out: 2.013+/-0.266  $\chi^2/\text{NDF}$ : 15473.7/18

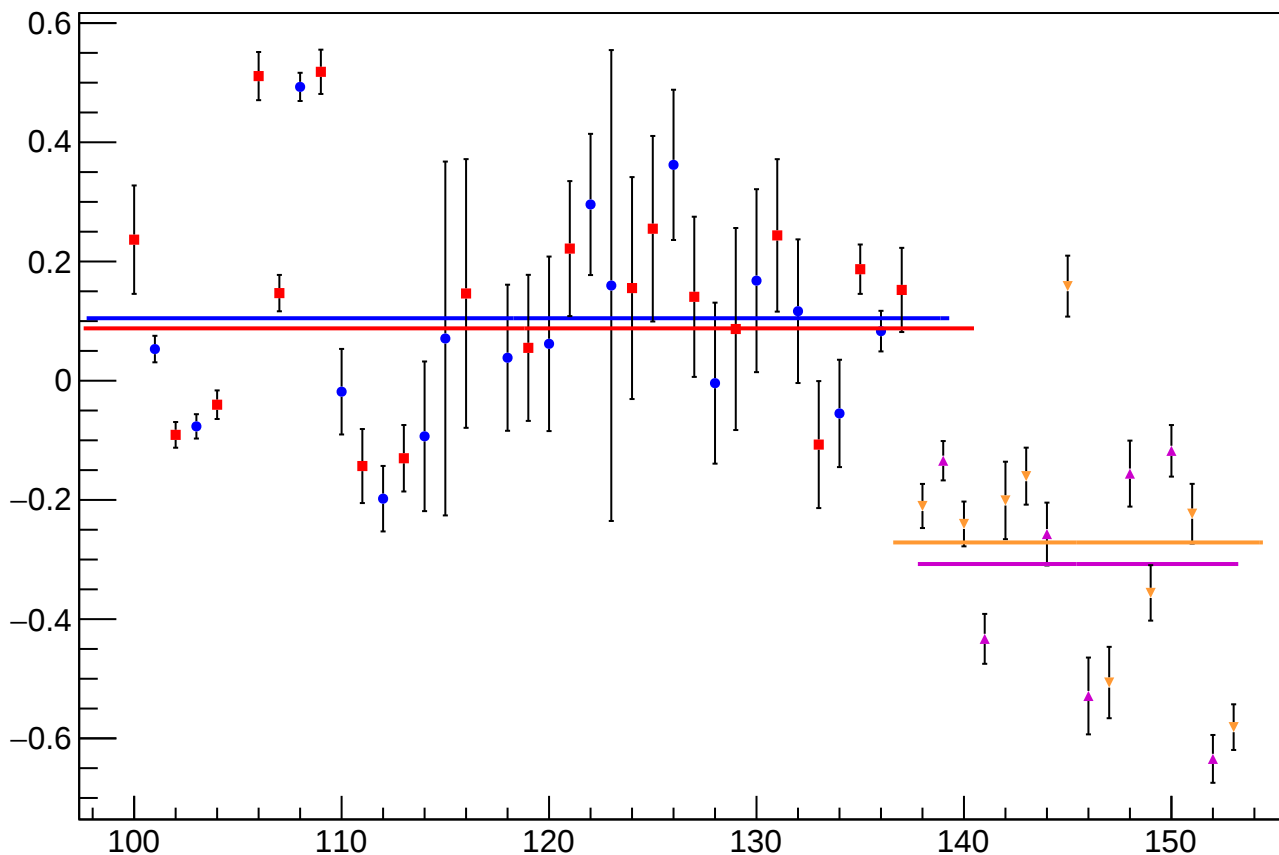
Left In: 61.460+/-0.367  $\chi^2/\text{NDF}$ : 1241.6/6

+ sign 24.268+/-0.194  $\chi^2/\text{NDF}$ : 43416.5/25

All: 23.489+/-0.144  $\chi^2/\text{NDF}$ : 77361.2/51

- sign 22.531+/-0.216  $\chi^2/\text{NDF}$ : 33908.9/25

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.271 \pm 0.015$   $\chi^2/\text{NDF}$ : 165.8/8

Right Out:  $0.088 \pm 0.011$   $\chi^2/\text{NDF}$ : 391.0/18

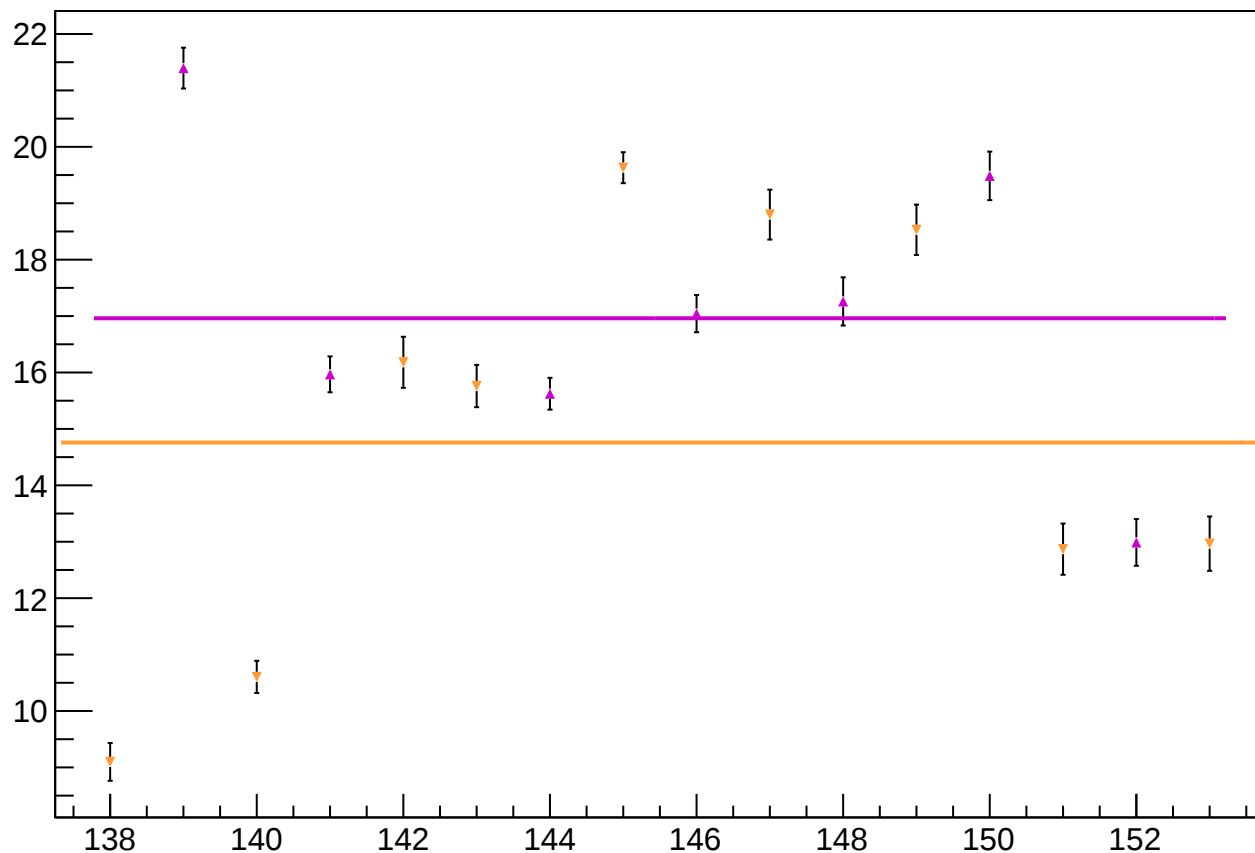
Left In:  $-0.308 \pm 0.017$   $\chi^2/\text{NDF}$ : 142.4/6

+ sign  $-0.025 \pm 0.009$   $\chi^2/\text{NDF}$ : 966.9/25

All:  $-0.028 \pm 0.006$   $\chi^2/\text{NDF}$ : 1890.4/51

- sign  $-0.031 \pm 0.009$   $\chi^2/\text{NDF}$ : 923.2/25

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.759+/-0.123  $\chi^2/\text{NDF}$ :1017.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

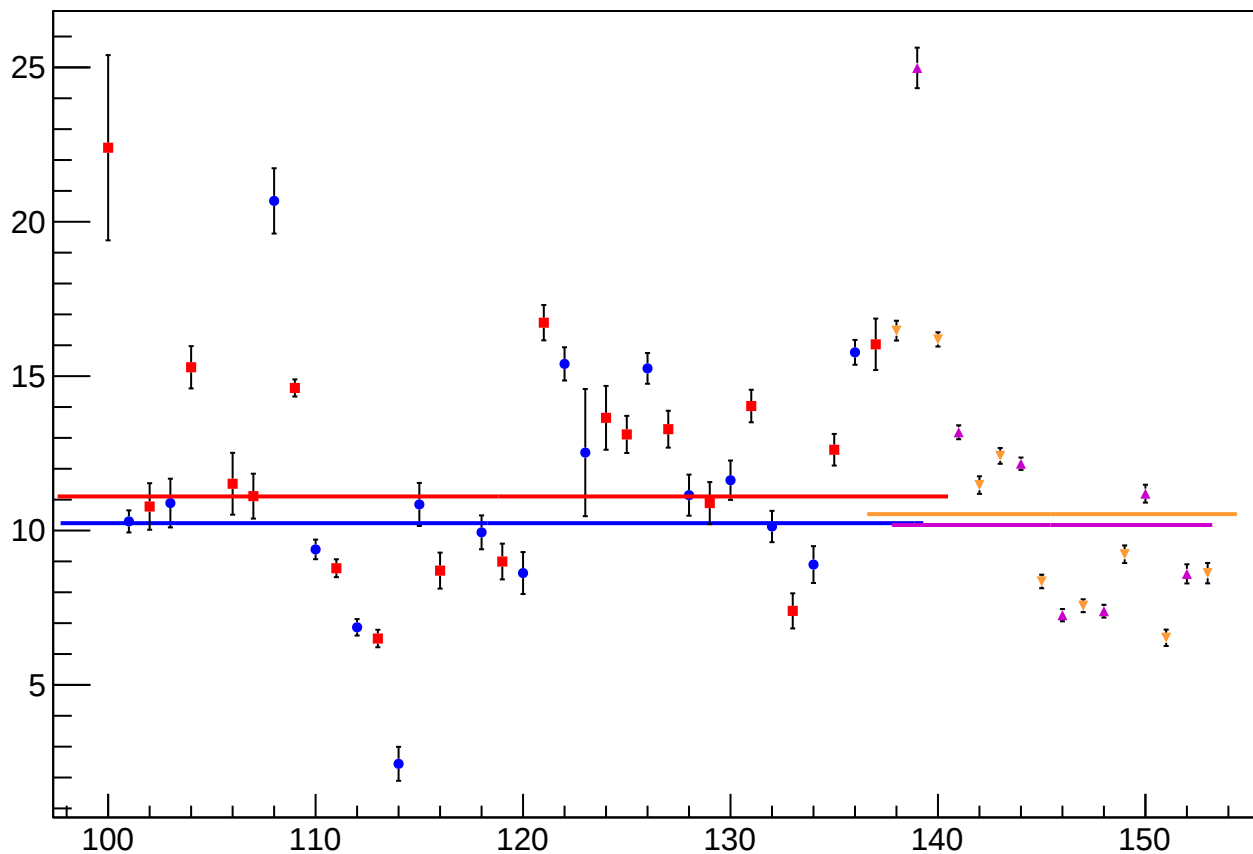
Left In: 16.961+/-0.134  $\chi^2/\text{NDF}$ :309.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.772+/-0.091  $\chi^2/\text{NDF}$ : 1473.4/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 10.238 $\pm$ 0.119  $\chi^2$ /NDF: 867.4/16

Left Out: 10.532 $\pm$ 0.086  $\chi^2$ /NDF:1585.2/8

Right Out: 11.104 $\pm$ 0.116  $\chi^2$ /NDF: 815.2/18

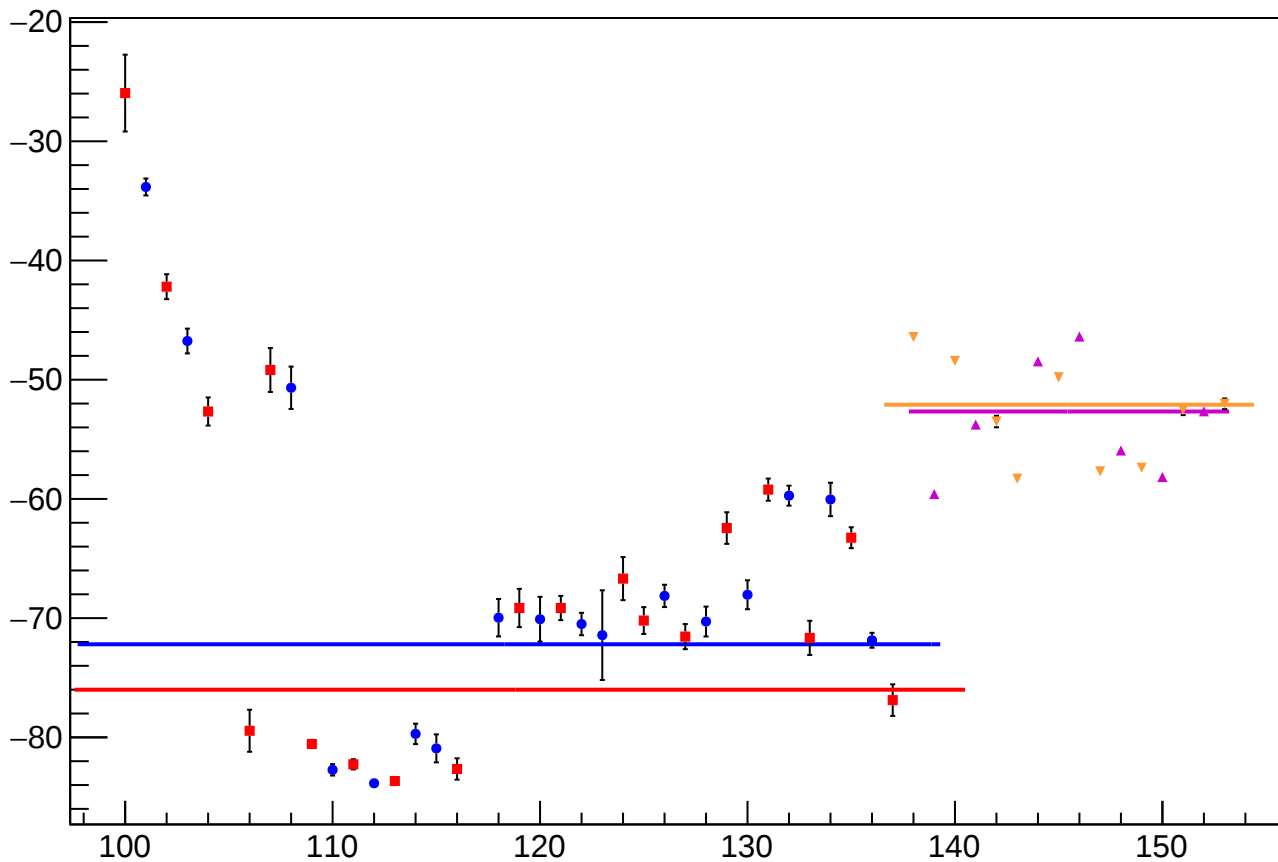
Left In: 10.179 $\pm$ 0.092  $\chi^2$ /NDF:1219.6/6

+ sign 10.431 $\pm$ 0.070  $\chi^2$ /NDF: 2456.6/25

All: 10.482 $\pm$ 0.050  $\chi^2$ /NDF: 4531.3/51

- sign 10.536 $\pm$ 0.072  $\chi^2$ /NDF: 2073.6/25

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}: 5563.0/16$

Left Out:  $-52.096 \pm 0.126$   $\chi^2/\text{NDF}: 1047.5/8$

Right Out:  $-76.003 \pm 0.181$   $\chi^2/\text{NDF}: 3465.3/18$

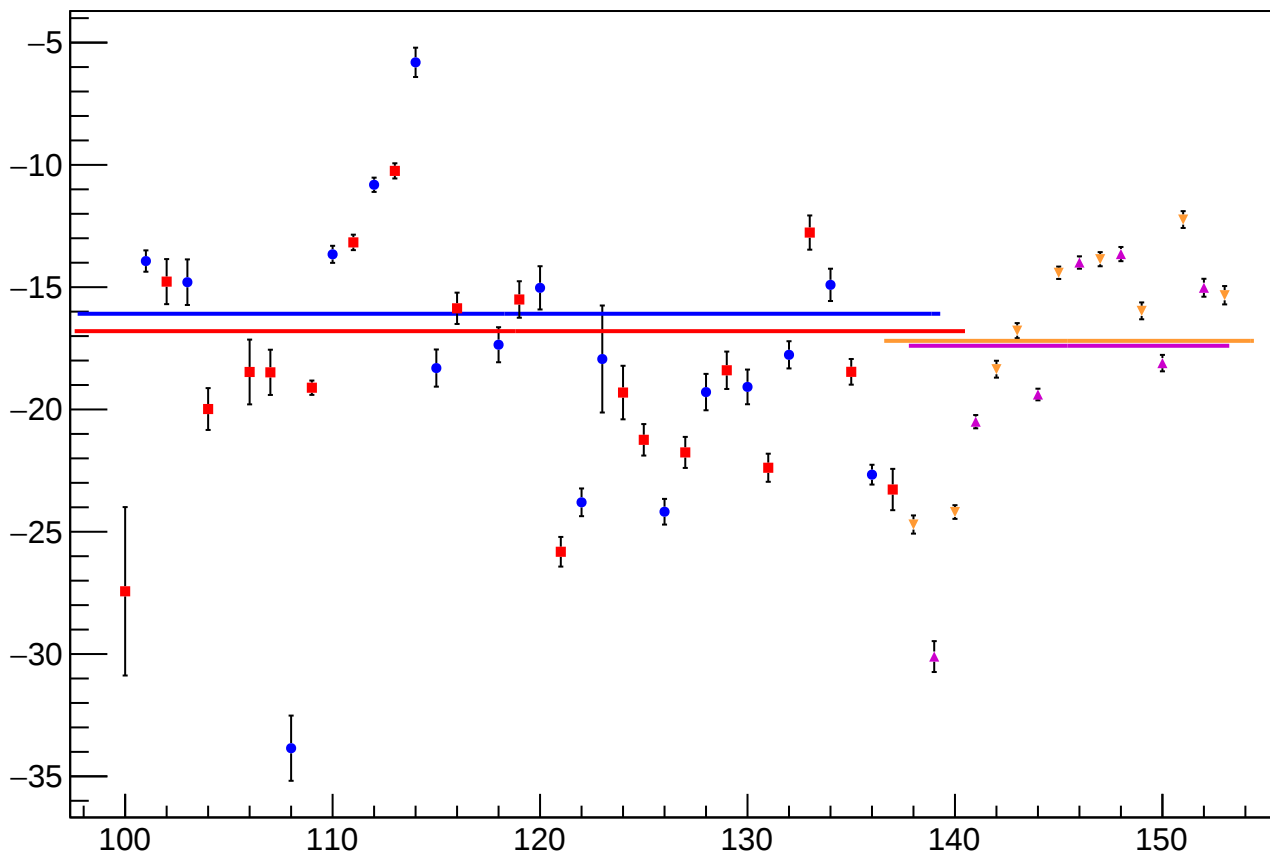
Left In:  $-52.667 \pm 0.135$   $\chi^2/\text{NDF}: 1164.3/6$

+ sign  $-57.912 \pm 0.107$   $\chi^2/\text{NDF}: 13920.3/25$

All:  $-59.433 \pm 0.076$   $\chi^2/\text{NDF}: 29658.0/51$

- sign  $-60.997 \pm 0.108$   $\chi^2/\text{NDF}: 15324.8/25$

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.087 \pm 0.132$   $\chi^2/\text{NDF}$ : 1621.7/16

Left Out:  $-17.194 \pm 0.105$   $\chi^2/\text{NDF}$ : 1543.8/8

Right Out:  $-16.798 \pm 0.128$   $\chi^2/\text{NDF}$ : 1214.0/18

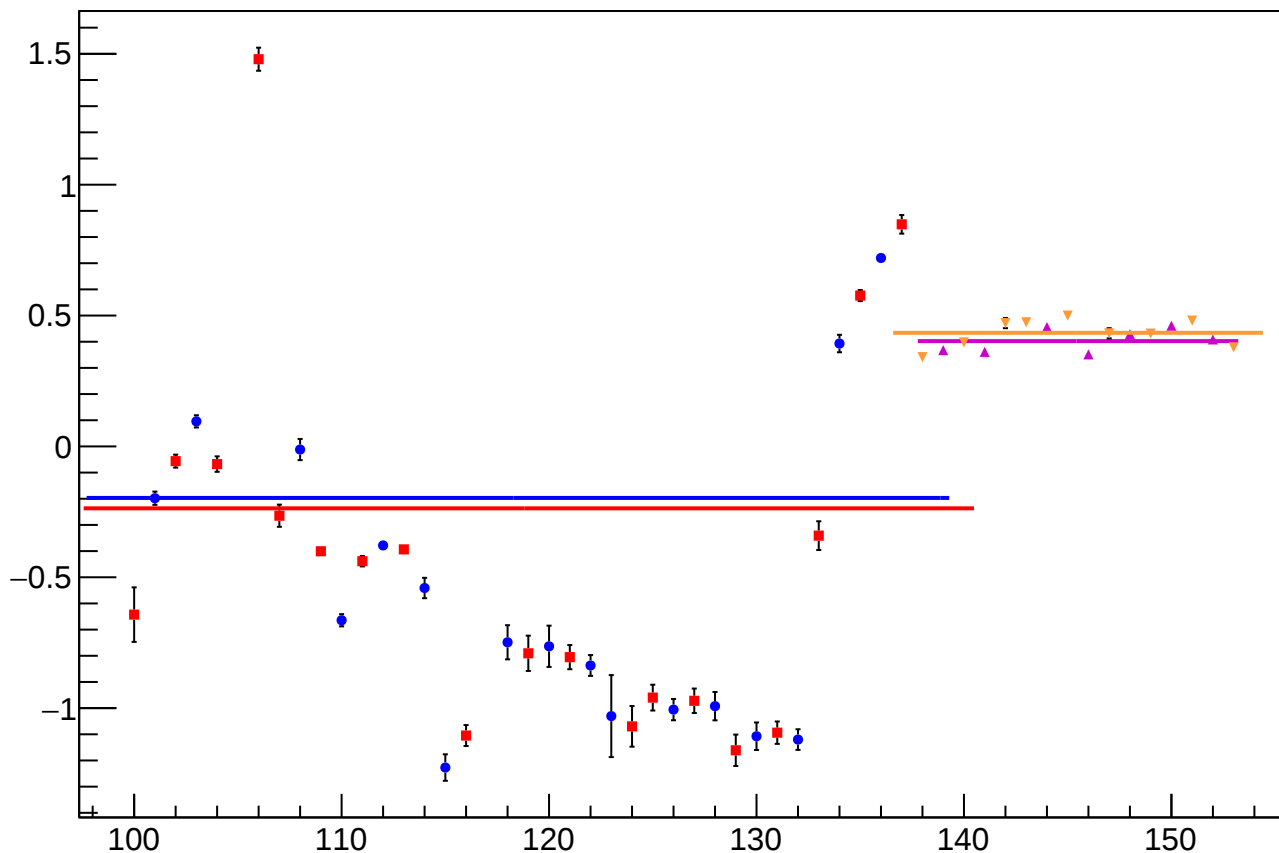
Left In:  $-17.396 \pm 0.114$   $\chi^2/\text{NDF}$ : 998.8/6

+ sign  $-16.766 \pm 0.082$   $\chi^2/\text{NDF}$ : 3208.4/25

All:  $-16.943 \pm 0.059$   $\chi^2/\text{NDF}$ : 5443.0/51

- sign  $-17.133 \pm 0.085$   $\chi^2/\text{NDF}$ : 2225.0/25

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.434 \pm 0.005$   $\chi^2/\text{NDF}$ : 110.2/8

Right Out:  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 6220.2/18

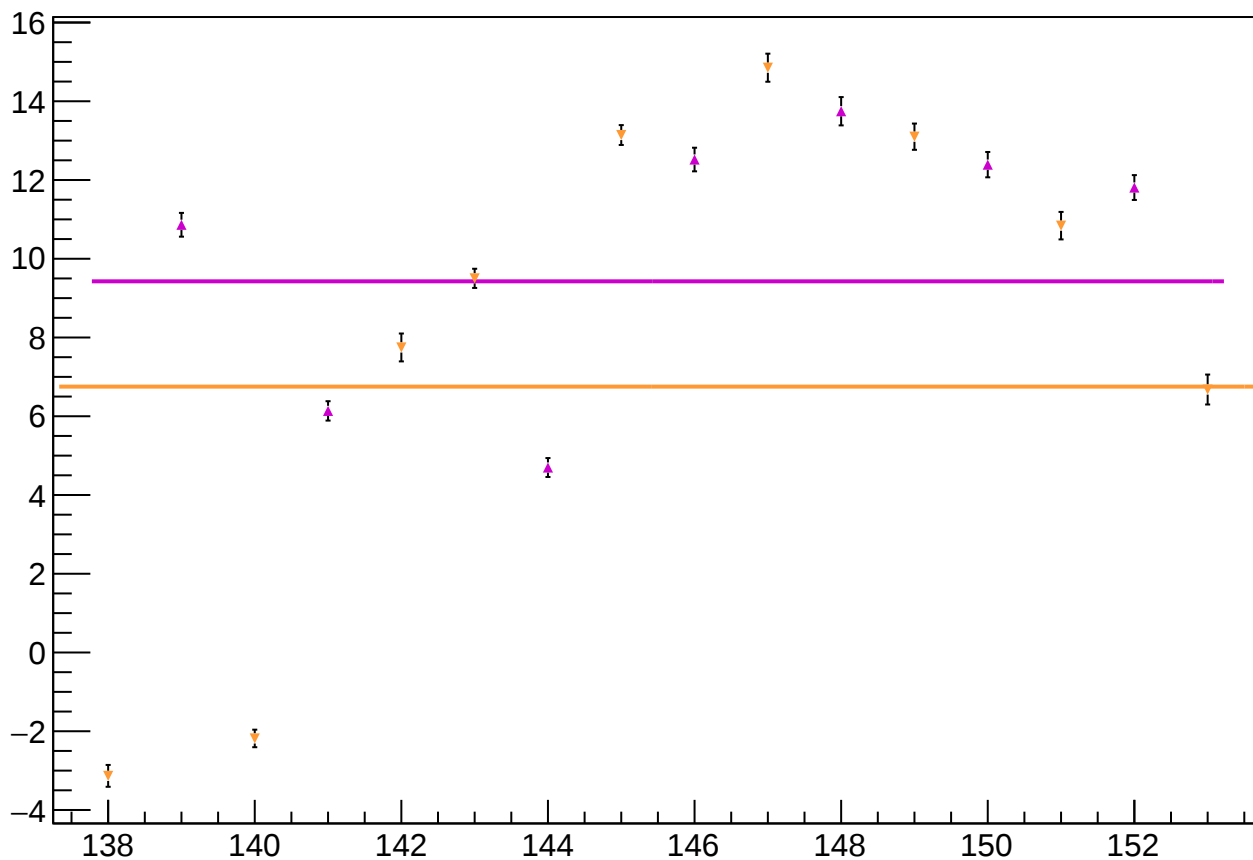
Left In:  $0.402 \pm 0.006$   $\chi^2/\text{NDF}$ : 58.5/6

+ sign  $0.231 \pm 0.004$   $\chi^2/\text{NDF}$ : 11181.8/25

All:  $0.197 \pm 0.003$   $\chi^2/\text{NDF}$ : 22519.7/51

- sign  $0.160 \pm 0.004$   $\chi^2/\text{NDF}$ : 11202.6/25

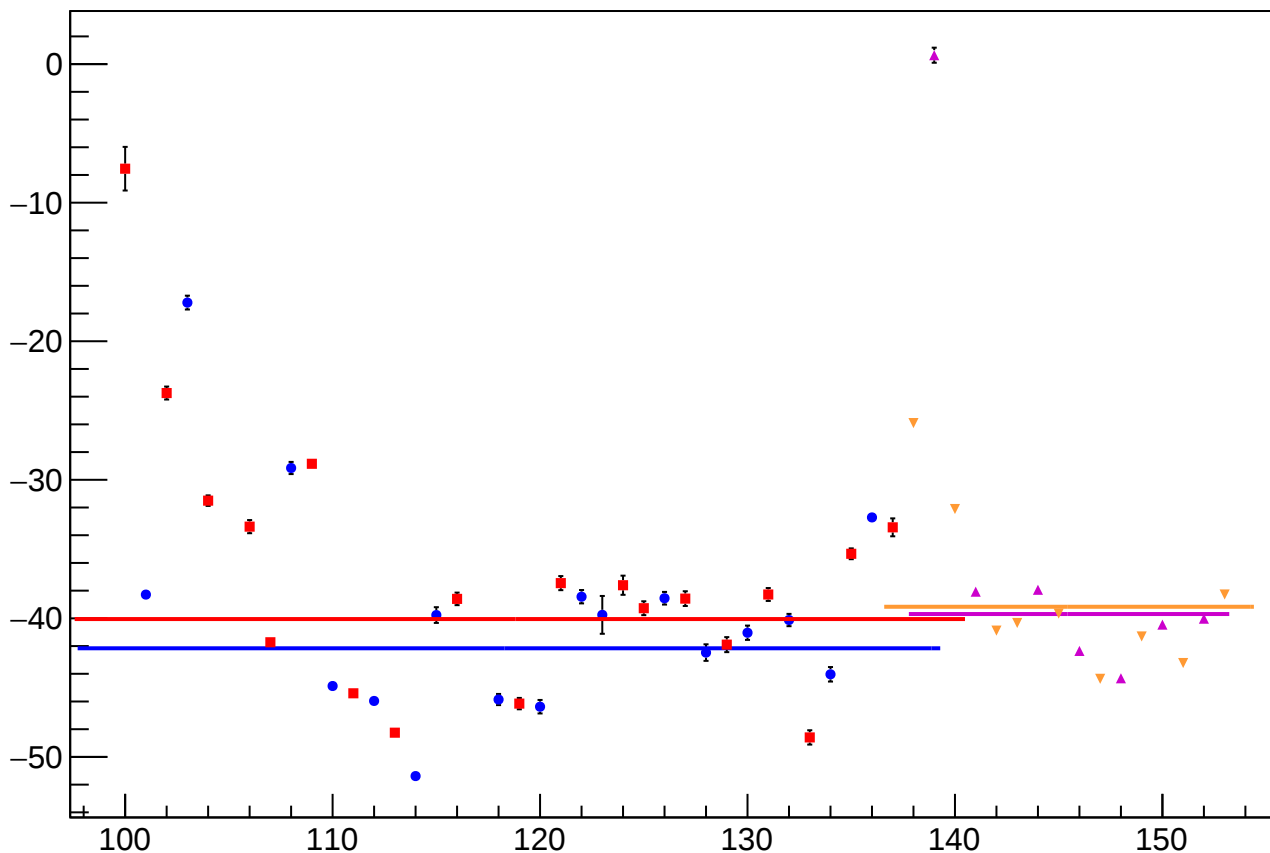
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 6.753 $\pm$ 0.097  $\chi^2$ /NDF:4670.3/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 9.427 $\pm$ 0.110  $\chi^2$ /NDF:981.0/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 7.932 $\pm$ 0.073  $\chi^2$ /NDF: 5984.5/15  
 - 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:  $-39.163 \pm 0.068$   $\chi^2/\text{NDF}$ : 5496.6/8

Right Out:  $-40.050 \pm 0.073$   $\chi^2/\text{NDF}$ : 11311.3/18

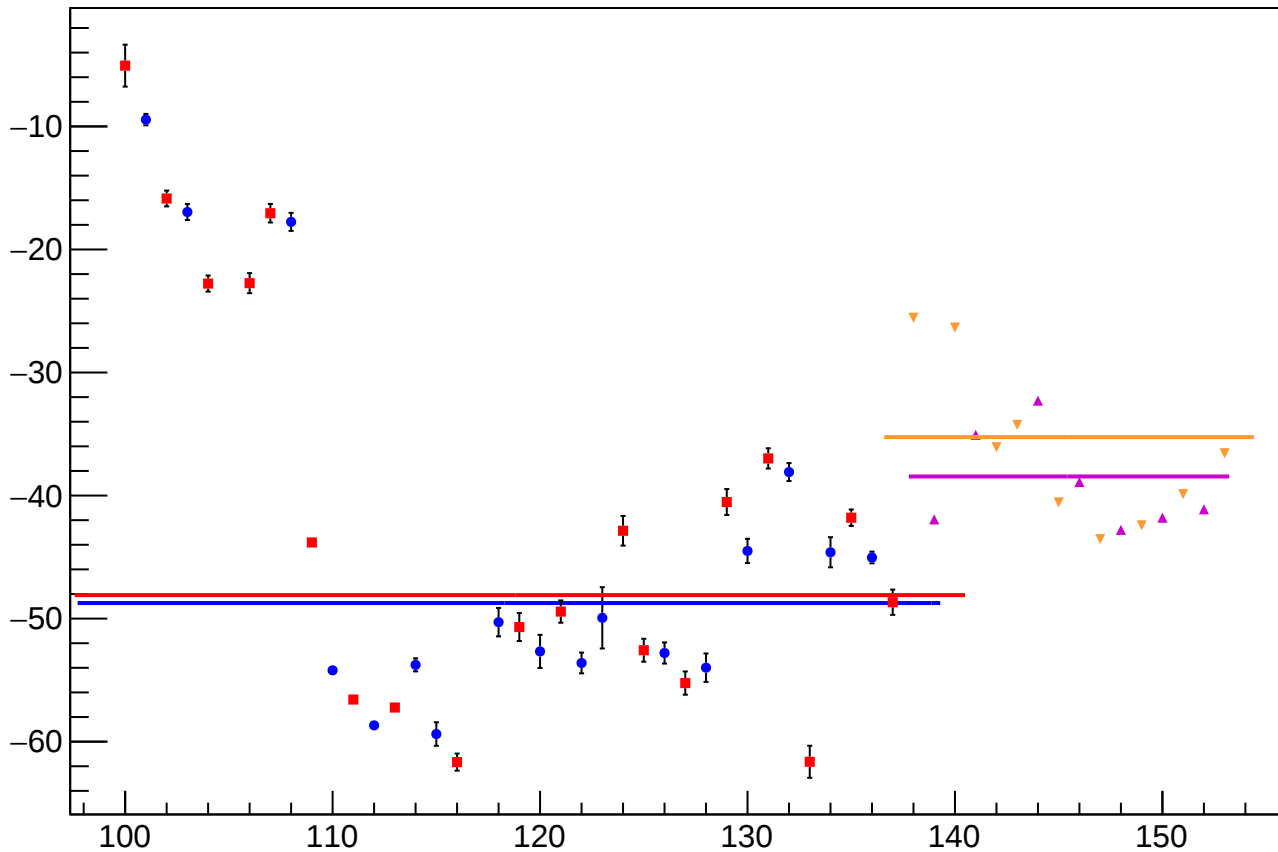
Left In:  $-39.688 \pm 0.077$   $\chi^2/\text{NDF}$ : 6587.5/6

+ sign  $-40.450 \pm 0.051$   $\chi^2/\text{NDF}$ : 12911.4/25

All:  $-40.173 \pm 0.037$   $\chi^2/\text{NDF}$ : 30882.7/51

- sign  $-39.878 \pm 0.053$   $\chi^2/\text{NDF}$ : 17910.6/25

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In: -48.733±/0.125  $\chi^2/\text{NDF}$ : 14659.4/16

Left Out: -35.248±/0.100  $\chi^2/\text{NDF}$ : 4215.4/8

Right Out: -48.090±/0.107  $\chi^2/\text{NDF}$ : 11731.5/18

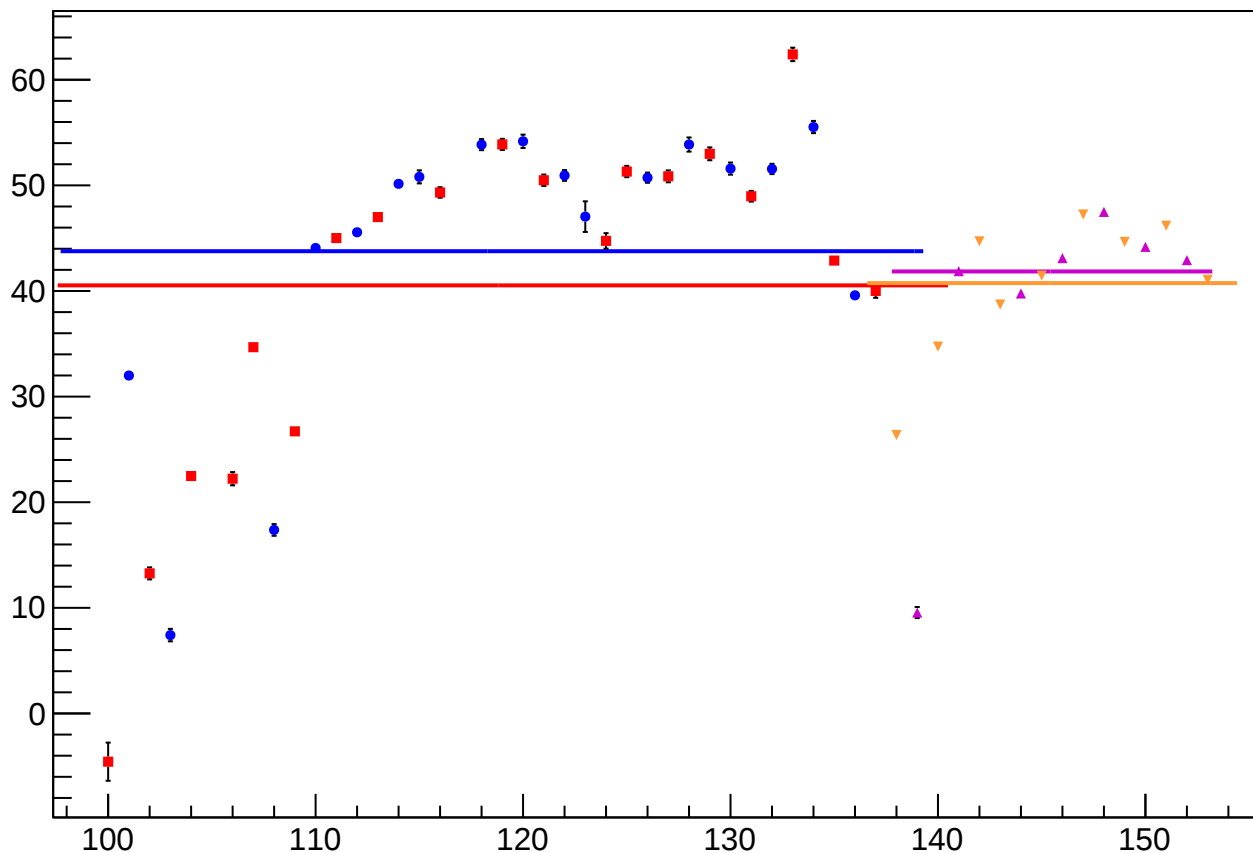
Left In: -38.448±/0.110  $\chi^2/\text{NDF}$ : 1225.2/6

+ sign -40.501±/0.078  $\chi^2/\text{NDF}$ : 26015.7/25

All: -41.973±/0.055  $\chi^2/\text{NDF}$ : 43602.8/51

- sign -43.412±/0.077  $\chi^2/\text{NDF}$ : 16879.4/25

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In:  $43.767 \pm 0.087$   $\chi^2/\text{NDF}$ : 10633.5/16

Left Out:  $40.747 \pm 0.083$   $\chi^2/\text{NDF}$ : 4646.0/8

Right Out:  $40.531 \pm 0.080$   $\chi^2/\text{NDF}$ : 17580.8/18

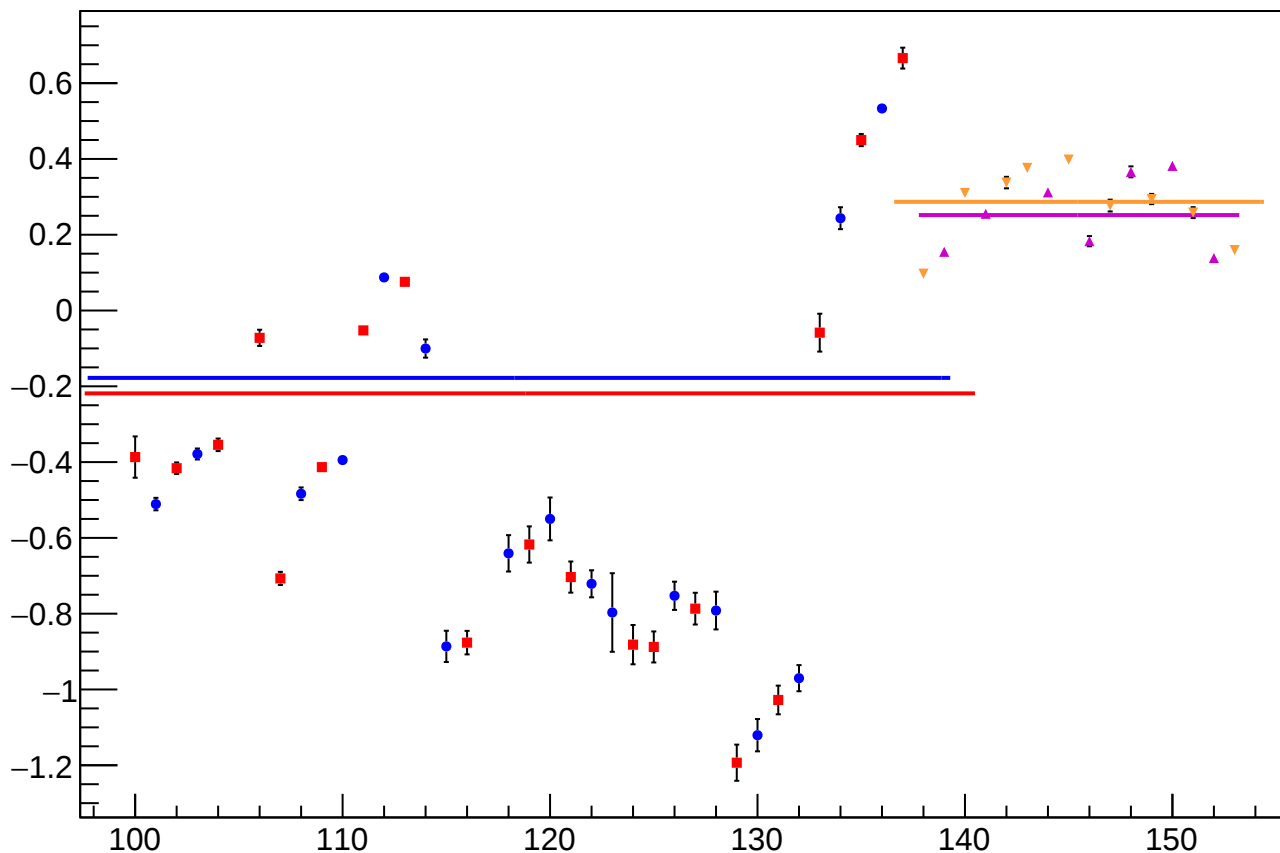
Left In:  $41.849 \pm 0.094$   $\chi^2/\text{NDF}$ : 4558.9/6

+ sign  $42.182 \pm 0.060$   $\chi^2/\text{NDF}$ : 15914.6/25

All:  $41.645 \pm 0.043$   $\chi^2/\text{NDF}$ : 38332.3/51

- sign  $41.088 \pm 0.061$   $\chi^2/\text{NDF}$ : 22253.8/25

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.287 \pm 0.004$   $\chi^2/\text{NDF}$ : 560.6/8

Right Out:  $-0.219 \pm 0.004$   $\chi^2/\text{NDF}$ : 7465.2/18

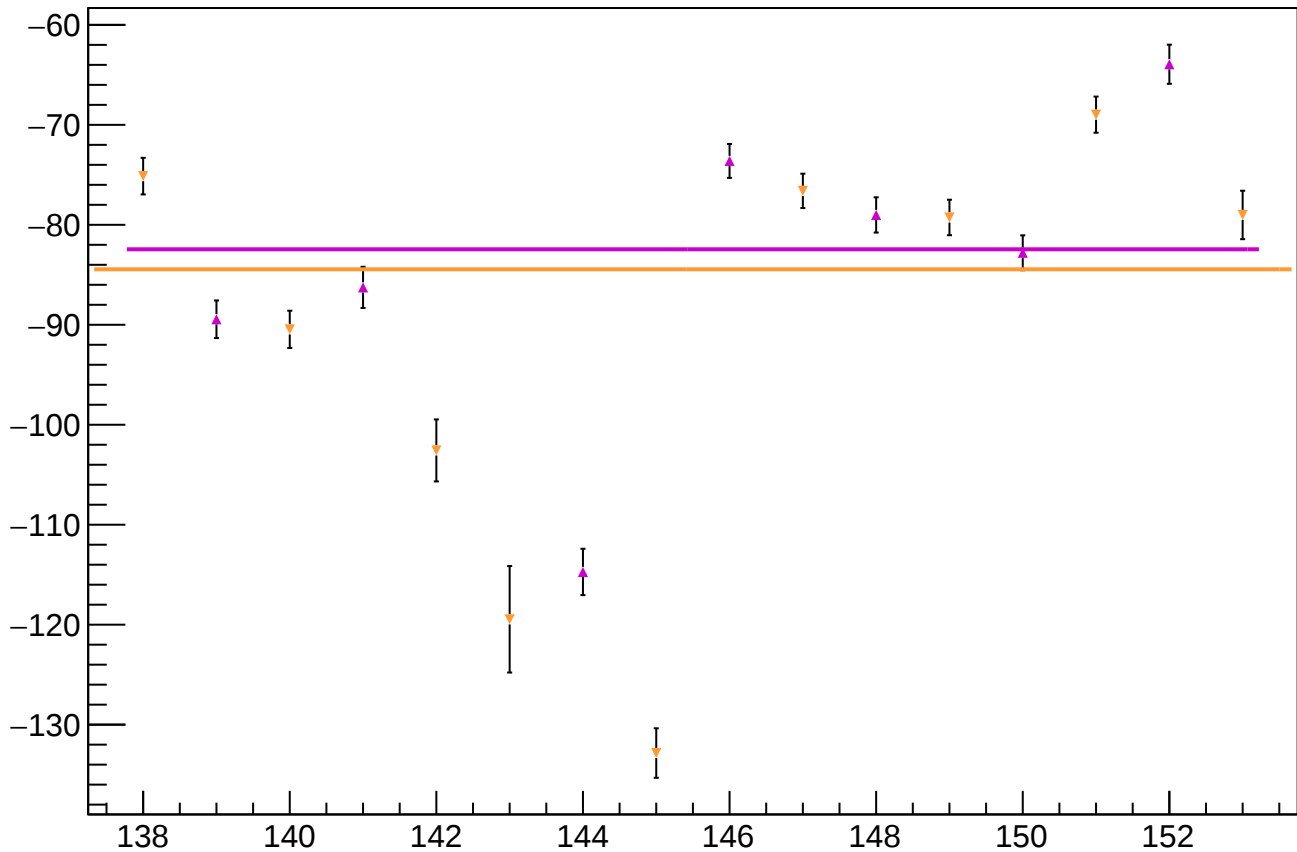
Left In:  $0.252 \pm 0.005$   $\chi^2/\text{NDF}$ : 379.3/6

+ sign  $0.093 \pm 0.003$   $\chi^2/\text{NDF}$ : 13290.3/25

All:  $0.048 \pm 0.002$   $\chi^2/\text{NDF}$ : 27170.1/51

- sign  $0.002 \pm 0.003$   $\chi^2/\text{NDF}$ : 13455.8/25

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -84.449+/-0.703  $\chi^2/\text{NDF}$ : 603.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

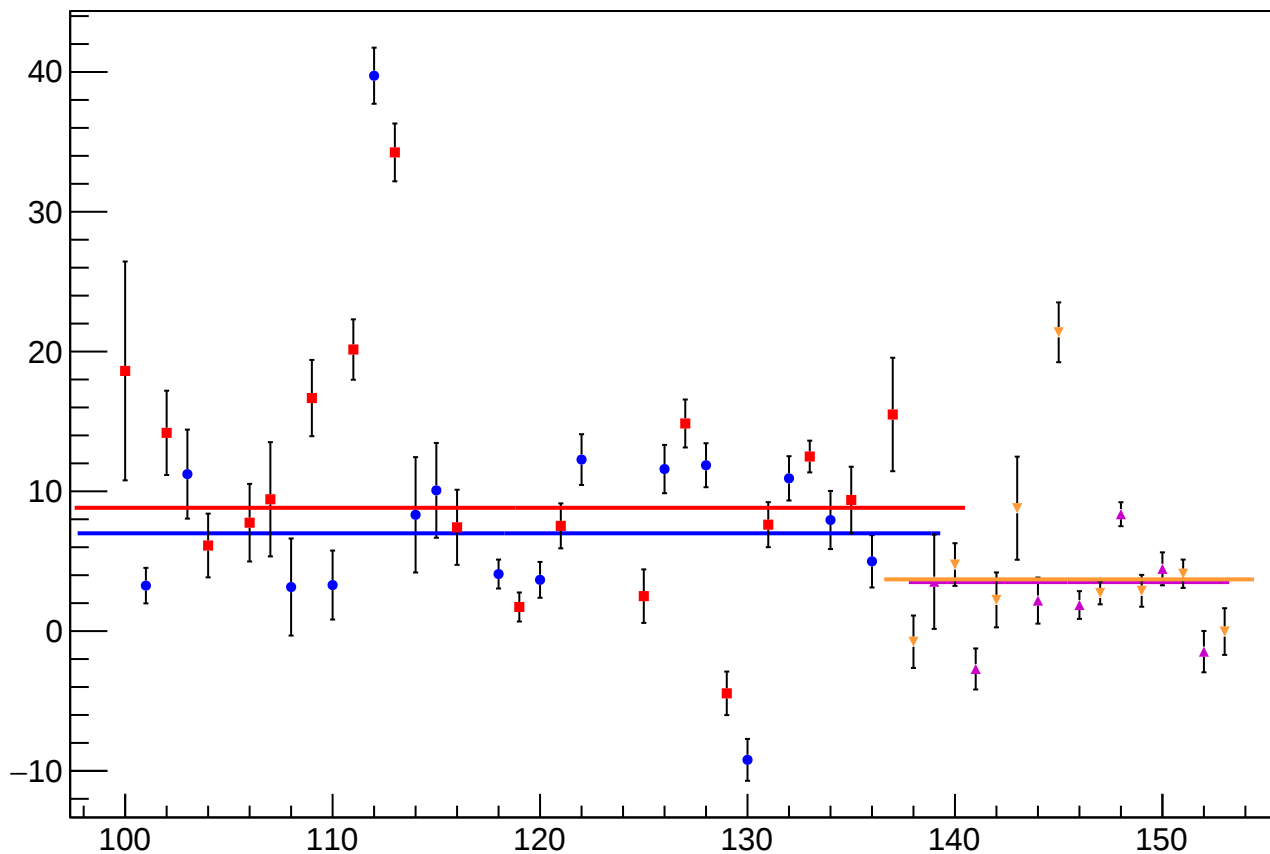
Left In: -82.448+/-0.714  $\chi^2/\text{NDF}$ : 331.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -83.464+/-0.501  $\chi^2/\text{NDF}$ : 938.8/15

- 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:  $3.702 \pm 0.453$   $\chi^2/\text{NDF}$ : 83.9/8

Right Out:  $8.822 \pm 0.449$   $\chi^2/\text{NDF}$ : 350.4/17

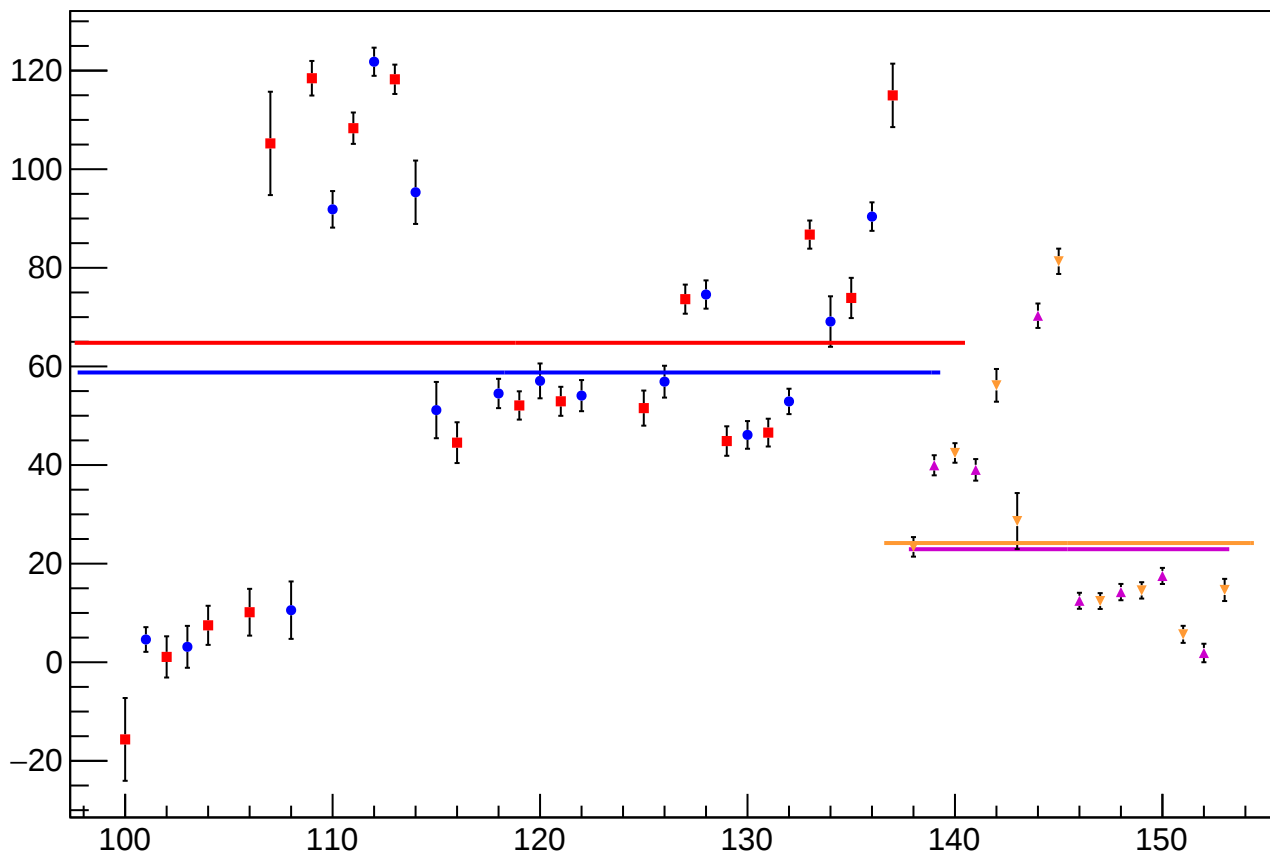
Left In:  $3.506 \pm 0.473$   $\chi^2/\text{NDF}$ : 65.4/6

+ sign  $5.419 \pm 0.313$   $\chi^2/\text{NDF}$ : 556.8/24

All:  $5.844 \pm 0.226$   $\chi^2/\text{NDF}$ : 1043.1/49

- sign  $6.302 \pm 0.325$   $\chi^2/\text{NDF}$ : 482.4/24

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 58.770 $\pm$ 0.833  $\chi^2$ /NDF: 1493.3/15

Left Out: 24.180 $\pm$ 0.696  $\chi^2$ /NDF: 893.1/8

Right Out: 64.792 $\pm$ 0.840  $\chi^2$ /NDF: 1718.1/17

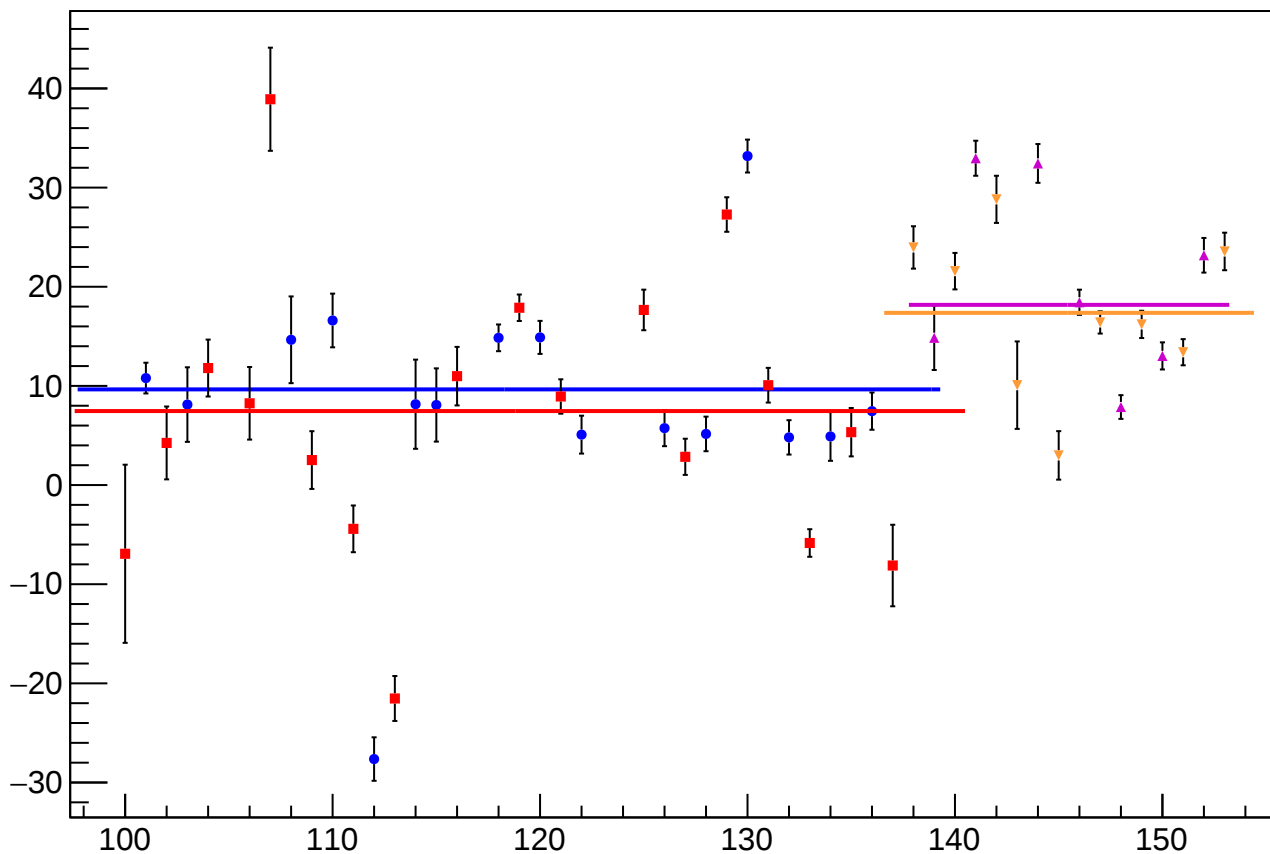
Left In: 22.928 $\pm$ 0.704  $\chi^2$ /NDF: 695.2/6

+ sign 38.397 $\pm$ 0.534  $\chi^2$ /NDF: 3402.2/24

All: 39.285 $\pm$ 0.380  $\chi^2$ /NDF: 7278.8/49

- sign 40.193 $\pm$ 0.540  $\chi^2$ /NDF: 3871.0/24

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}$ : 553.6/15

Left Out:  $17.368 \pm 0.569$   $\chi^2/\text{NDF}$ : 96.4/8

Right Out:  $7.463 \pm 0.516$   $\chi^2/\text{NDF}$ : 566.9/17

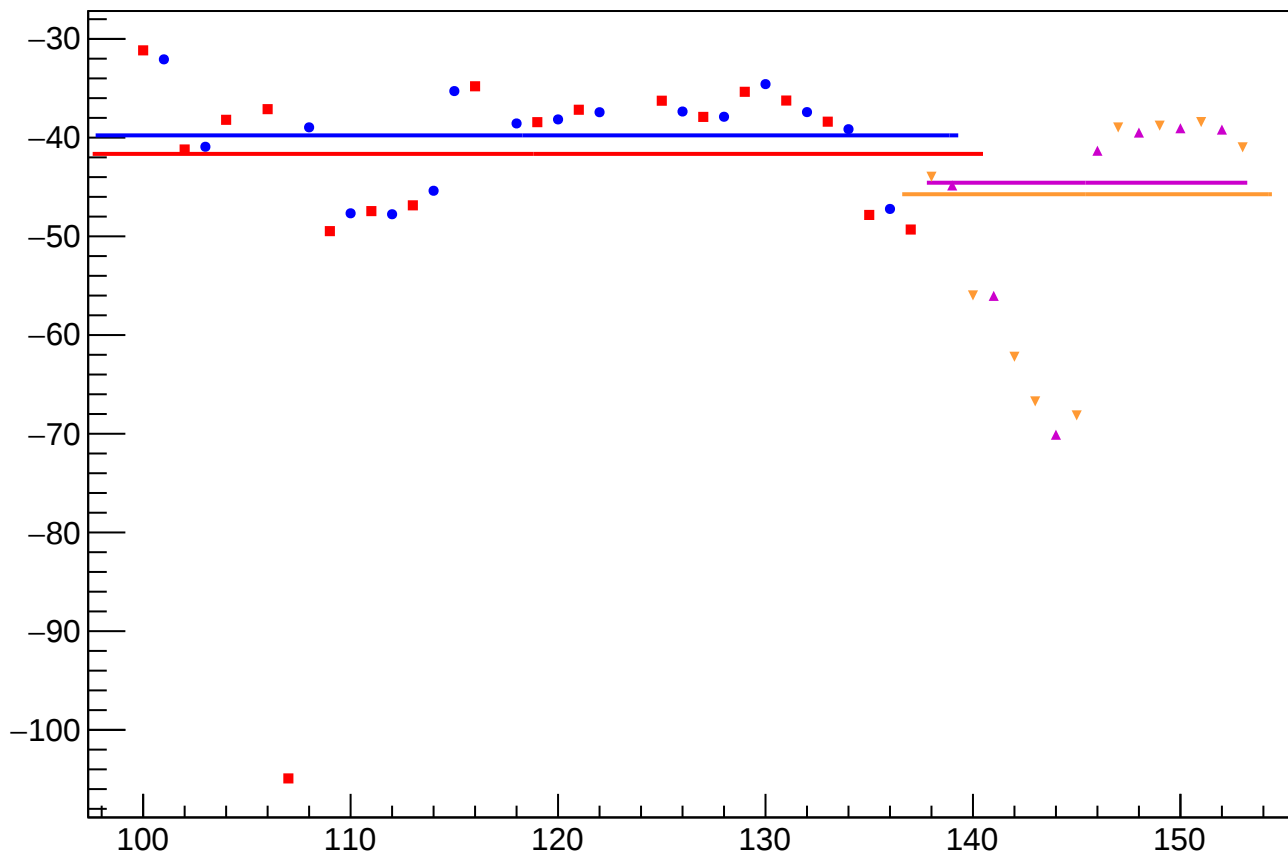
Left In:  $18.174 \pm 0.591$   $\chi^2/\text{NDF}$ : 220.9/6

+ sign  $13.024 \pm 0.377$   $\chi^2/\text{NDF}$ : 753.4/24

All:  $12.571 \pm 0.270$   $\chi^2/\text{NDF}$ : 1730.5/49

- sign  $12.088 \pm 0.389$   $\chi^2/\text{NDF}$ : 974.1/24

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-45.734 \pm 0.029$   $\chi^2/\text{NDF}$ : 117115.9/8

Right Out:  $-41.647 \pm 0.031$   $\chi^2/\text{NDF}$ : 94514.5/17

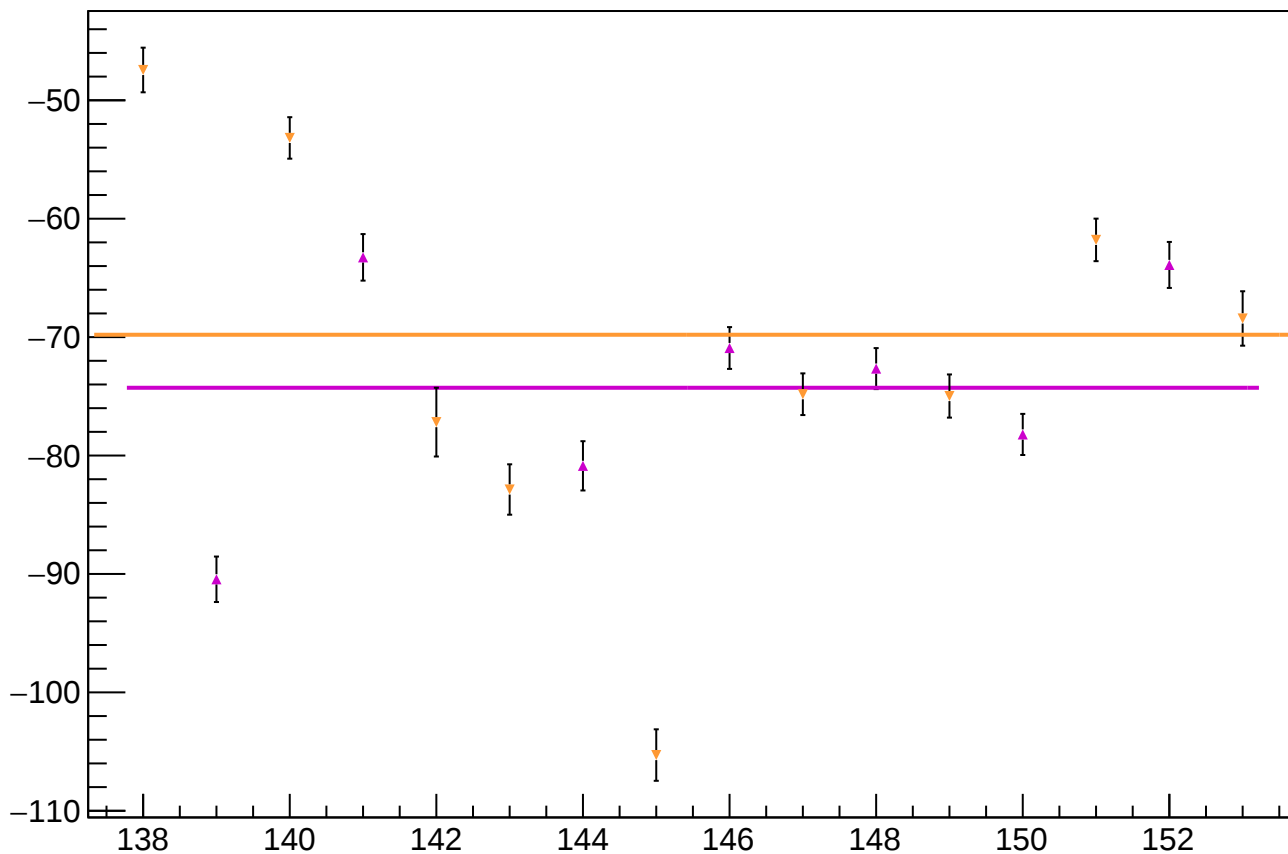
Left In:  $-44.568 \pm 0.029$   $\chi^2/\text{NDF}$ : 90351.4/6

+ sign  $-42.938 \pm 0.021$   $\chi^2/\text{NDF}$ : 162811.6/24

All:  $-43.069 \pm 0.015$   $\chi^2/\text{NDF}$ : 352417.6/49

- sign  $-43.201 \pm 0.021$   $\chi^2/\text{NDF}$ : 189529.9/24

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -69.800+/-0.662  $\chi^2/\text{NDF}$ : 577.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

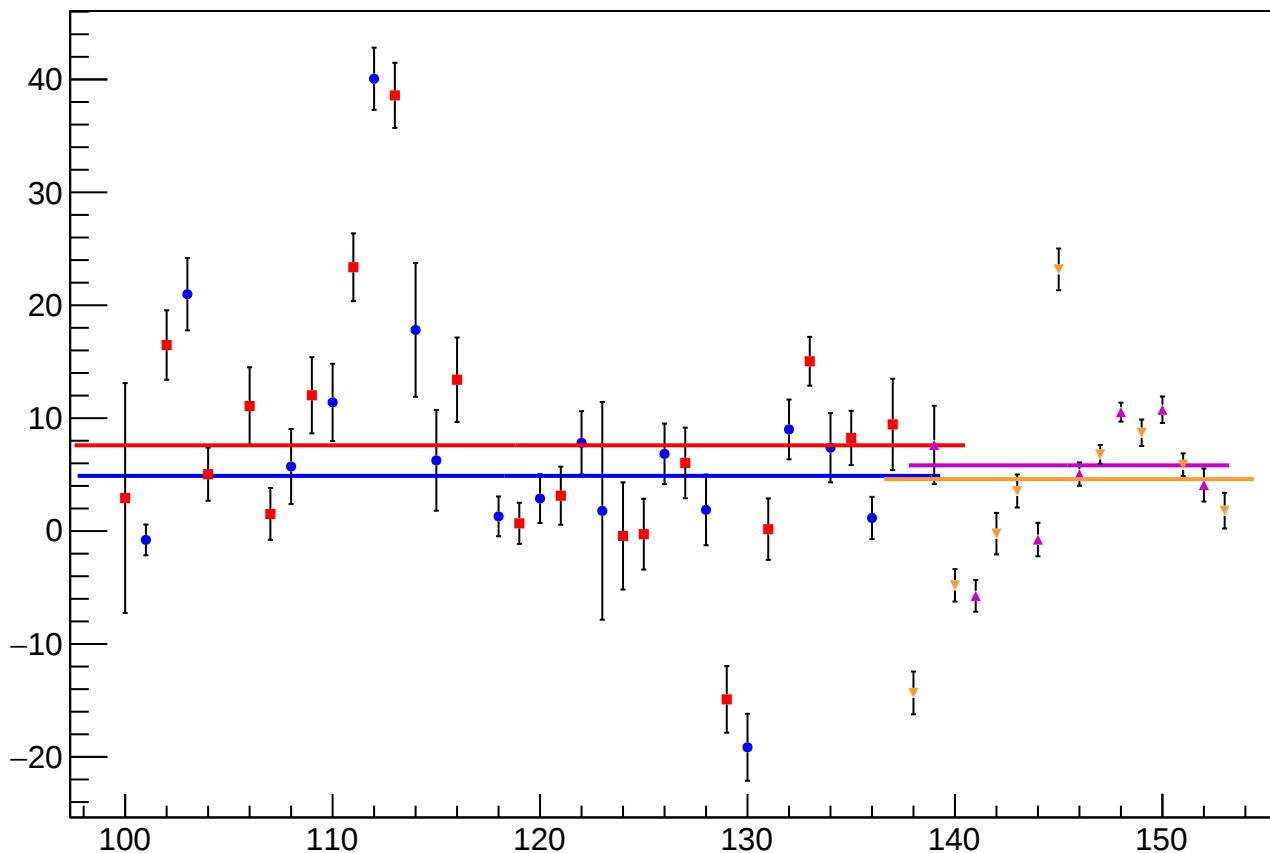
Left In: -74.277+/-0.705  $\chi^2/\text{NDF}$ : 150.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -71.898+/-0.483  $\chi^2/\text{NDF}$ : 749.9/15

- 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:  $4.602 \pm 0.431$   $\chi^2/\text{NDF}$ : 275.4/8

Right Out:  $7.596 \pm 0.651$   $\chi^2/\text{NDF}$ : 269.4/18

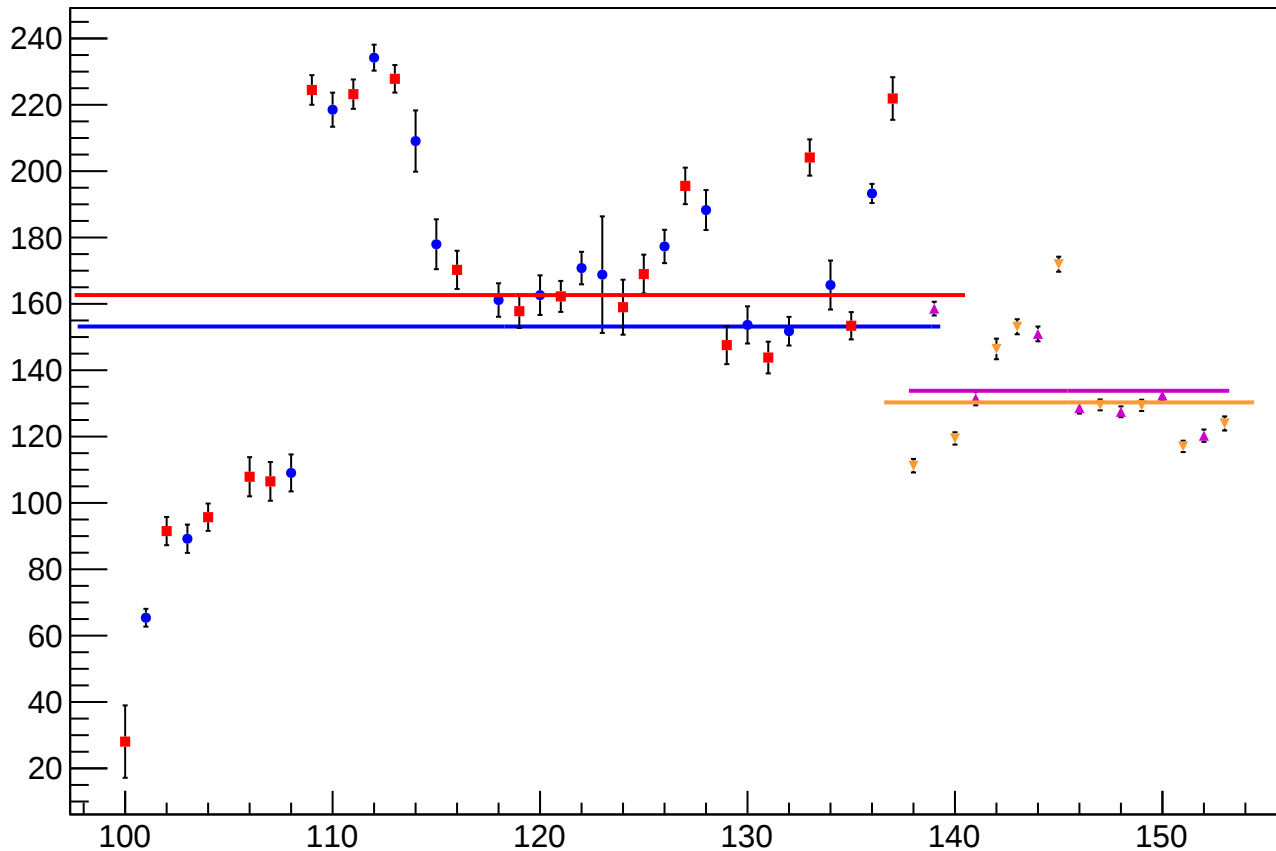
Left In:  $5.823 \pm 0.466$   $\chi^2/\text{NDF}$ : 139.0/6

+ sign  $4.695 \pm 0.355$   $\chi^2/\text{NDF}$ : 570.2/25

All:  $5.502 \pm 0.259$   $\chi^2/\text{NDF}$ : 994.6/51

- sign  $6.423 \pm 0.379$   $\chi^2/\text{NDF}$ : 413.3/25

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.174 $\pm$ 1.146  $\chi^2$ /NDF: 2264.3/16

Left Out: 130.301 $\pm$ 0.660  $\chi^2$ /NDF: 654.7/8

Right Out: 162.650 $\pm$ 1.176  $\chi^2$ /NDF: 1708.7/18

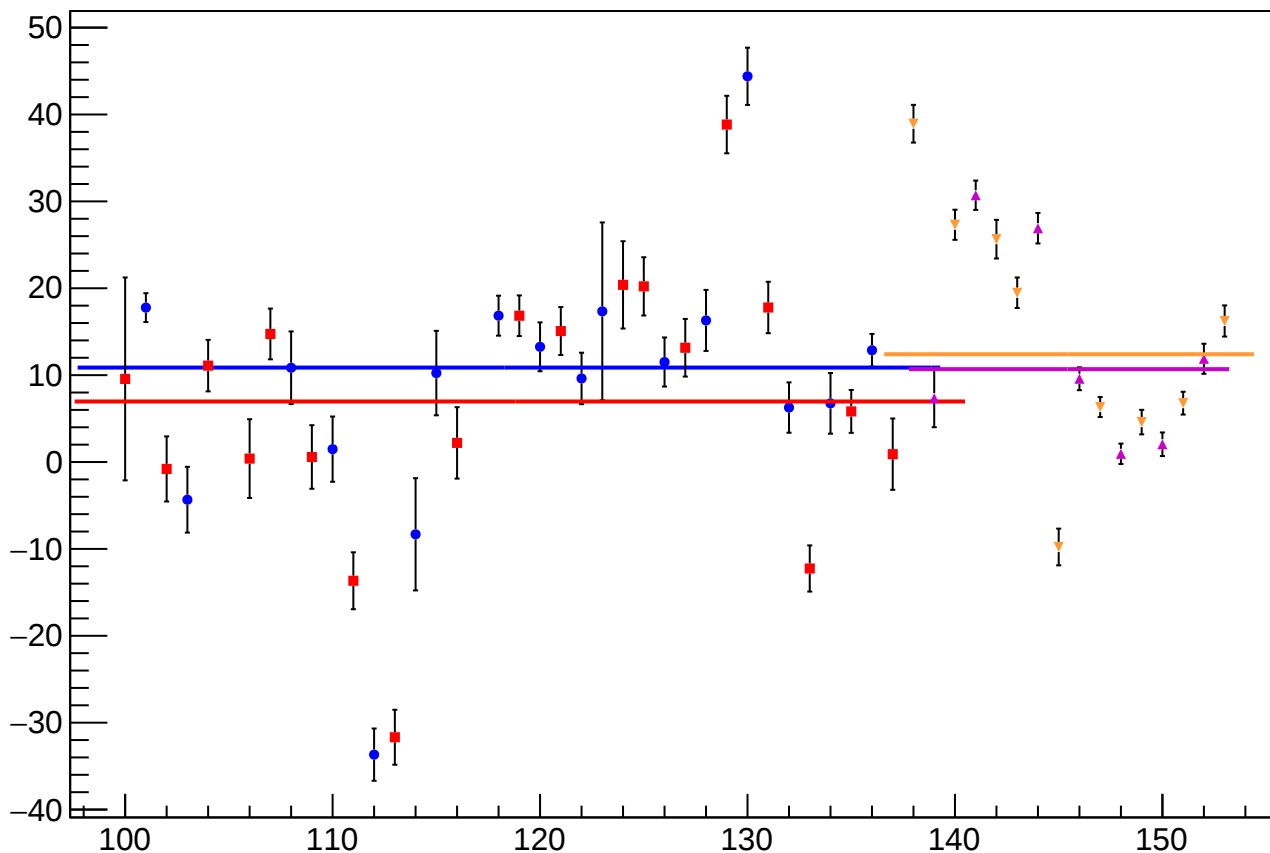
Left In: 133.804 $\pm$ 0.696  $\chi^2$ /NDF: 280.9/6

+ sign 135.999 $\pm$ 0.572  $\chi^2$ /NDF: 3217.9/25

All: 138.523 $\pm$ 0.414  $\chi^2$ /NDF: 5693.5/51

- sign 141.291 $\pm$ 0.599  $\chi^2$ /NDF: 2434.8/25

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 10.872 $\pm$ 0.714  $\chi^2$ /NDF: 386.7/16

Left Out: 12.406 $\pm$ 0.539  $\chi^2$ /NDF: 466.8/8

Right Out: 6.969 $\pm$ 0.748  $\chi^2$ /NDF: 422.3/18

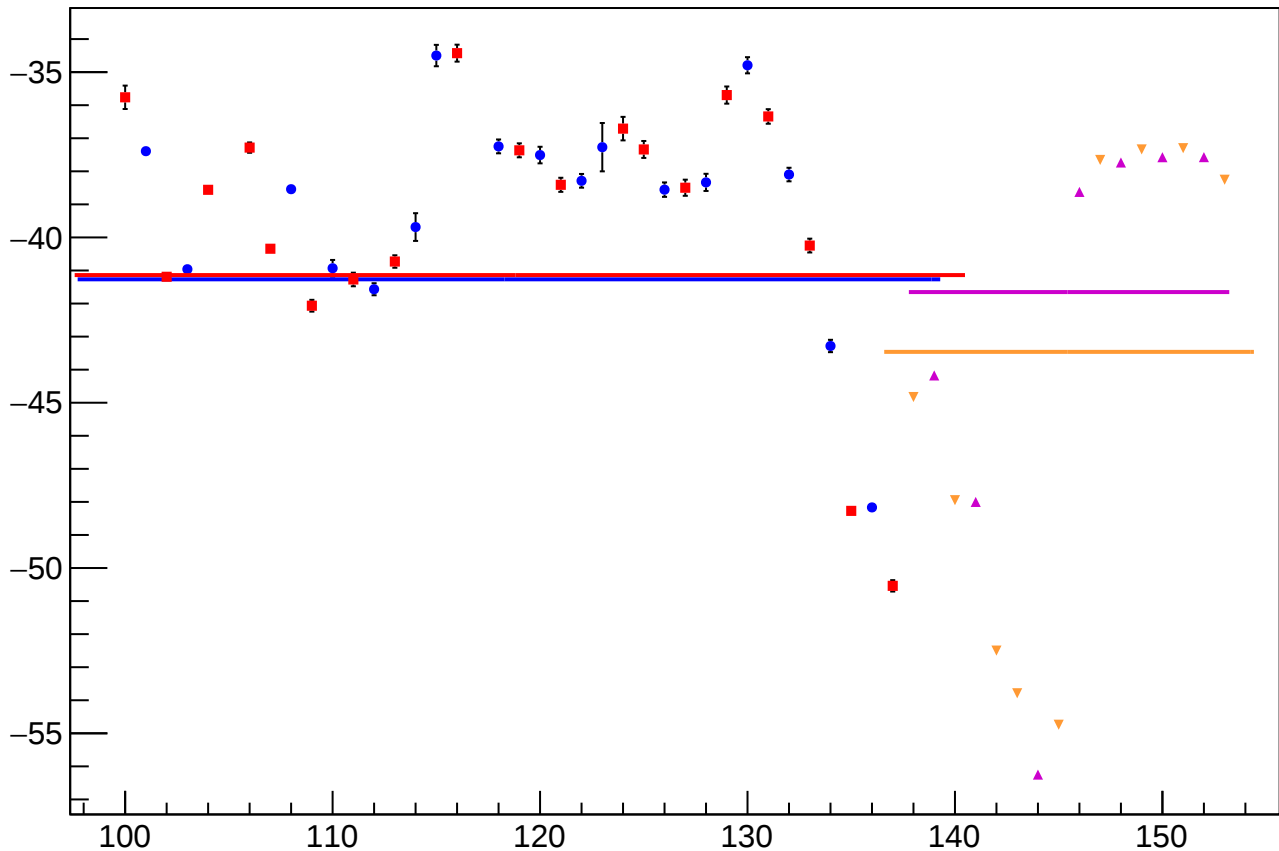
Left In: 10.693 $\pm$ 0.583  $\chi^2$ /NDF: 337.4/6

+ sign 11.850 $\pm$ 0.430  $\chi^2$ /NDF: 856.4/25

All: 10.652 $\pm$ 0.314  $\chi^2$ /NDF: 1648.2/51

- sign 9.285 $\pm$ 0.460  $\chi^2$ /NDF: 775.2/25

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}: 12581.8/16$

Left Out:  $-43.462 \pm 0.028$   $\chi^2/\text{NDF}: 61173.5/8$

Right Out:  $-41.139 \pm 0.039$   $\chi^2/\text{NDF}: 12242.4/18$

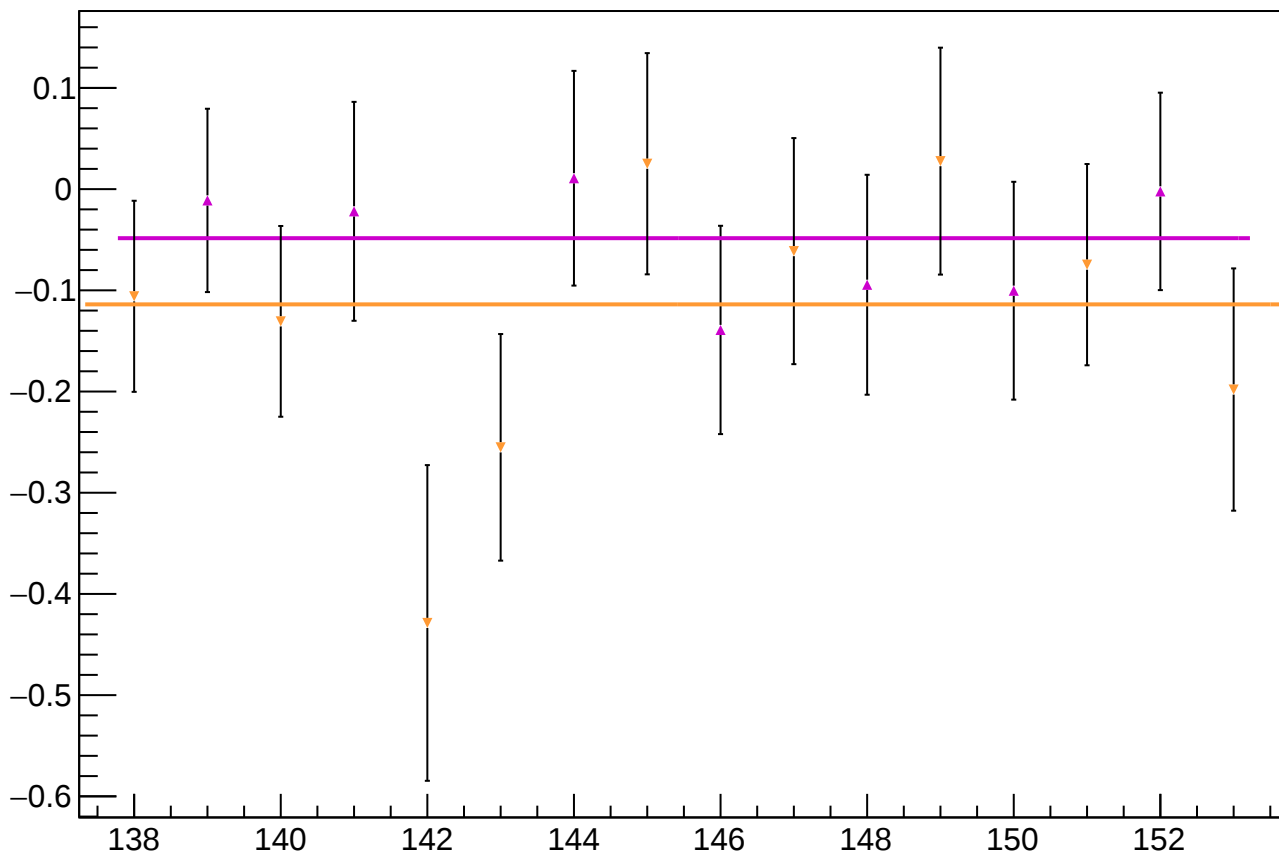
Left In:  $-41.653 \pm 0.029$   $\chi^2/\text{NDF}: 40472.2/6$

+ sign  $-42.718 \pm 0.022$   $\chi^2/\text{NDF}: 75901.0/25$

All:  $-42.113 \pm 0.016$   $\chi^2/\text{NDF}: 130233.1/51$

- sign  $-41.468 \pm 0.023$   $\chi^2/\text{NDF}: 52827.9/25$

# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.114 $\pm$ 0.036  $\chi^2$ /NDF: 9.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

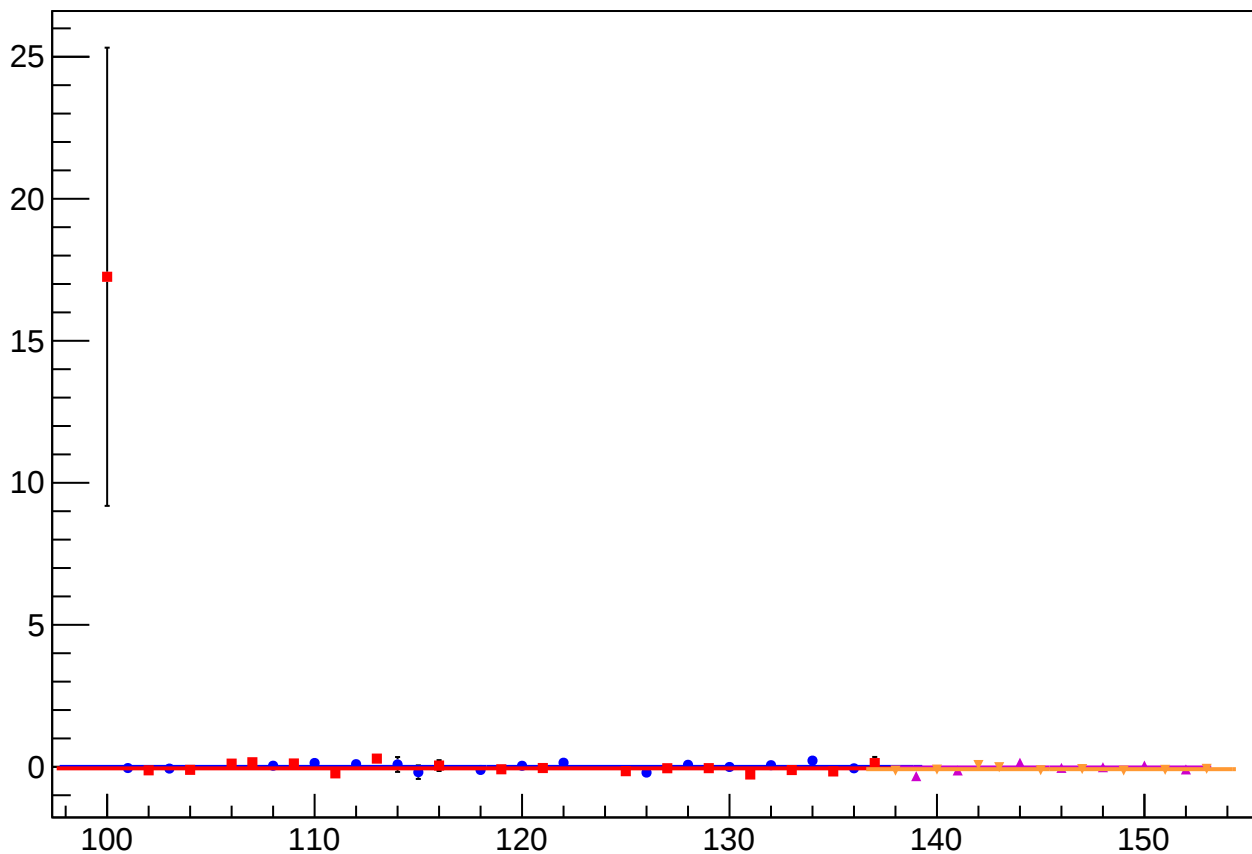
Left In: -0.048 $\pm$ 0.039  $\chi^2$ /NDF: 2.0/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.083 $\pm$ 0.026  $\chi^2$ /NDF: 13.3/15

- 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:  $-0.082 \pm 0.025$   $\chi^2/\text{NDF}$ : 4.1/8

Right Out:  $-0.053 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.5/17

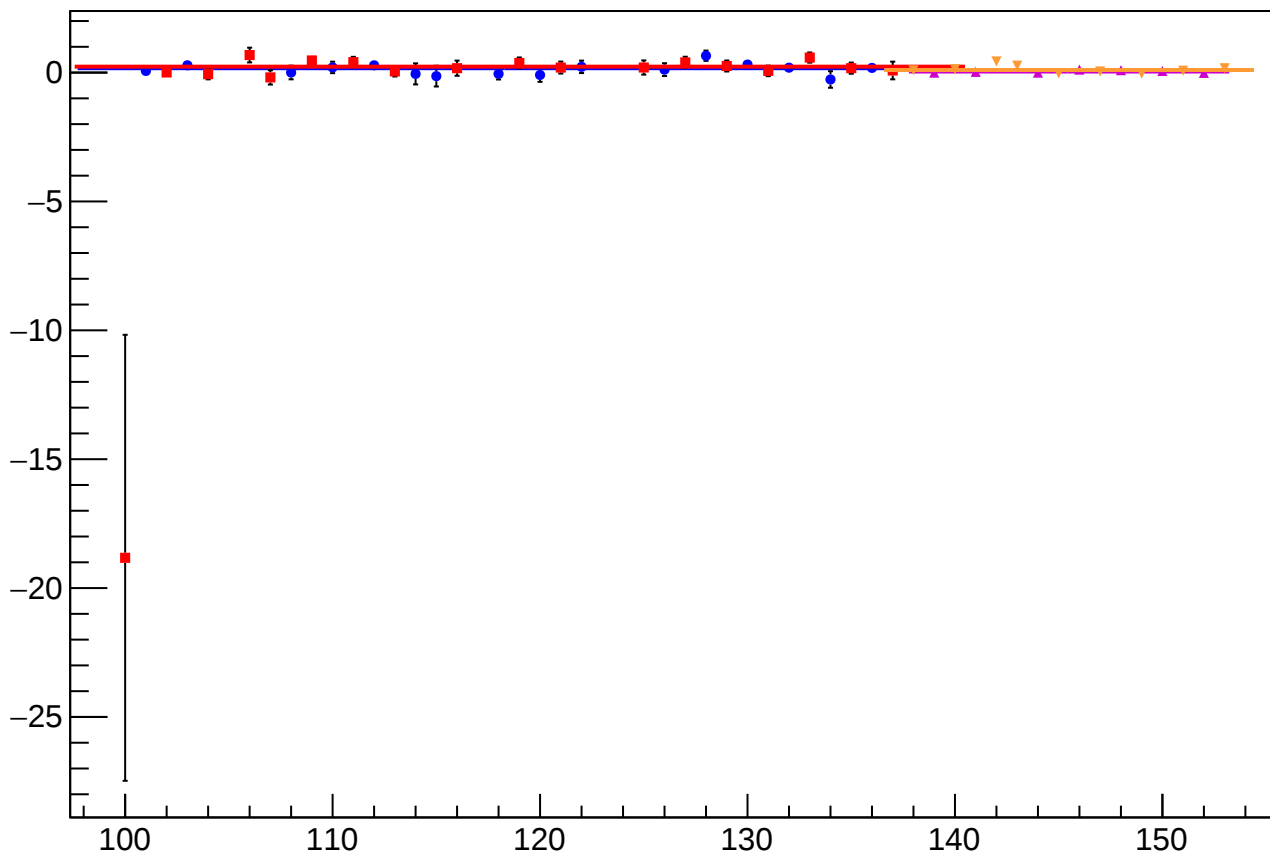
Left In:  $-0.022 \pm 0.027$   $\chi^2/\text{NDF}$ : 11.9/6

+ sign  $-0.047 \pm 0.019$   $\chi^2/\text{NDF}$ : 20.7/24

All:  $-0.042 \pm 0.014$   $\chi^2/\text{NDF}$ : 59.0/49

- sign  $-0.036 \pm 0.020$   $\chi^2/\text{NDF}$ : 38.1/24

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}$ : 13.0/15

Left Out:  $0.100 \pm 0.036$   $\chi^2/\text{NDF}$ : 9.9/8

Right Out:  $0.229 \pm 0.054$   $\chi^2/\text{NDF}$ : 21.7/17

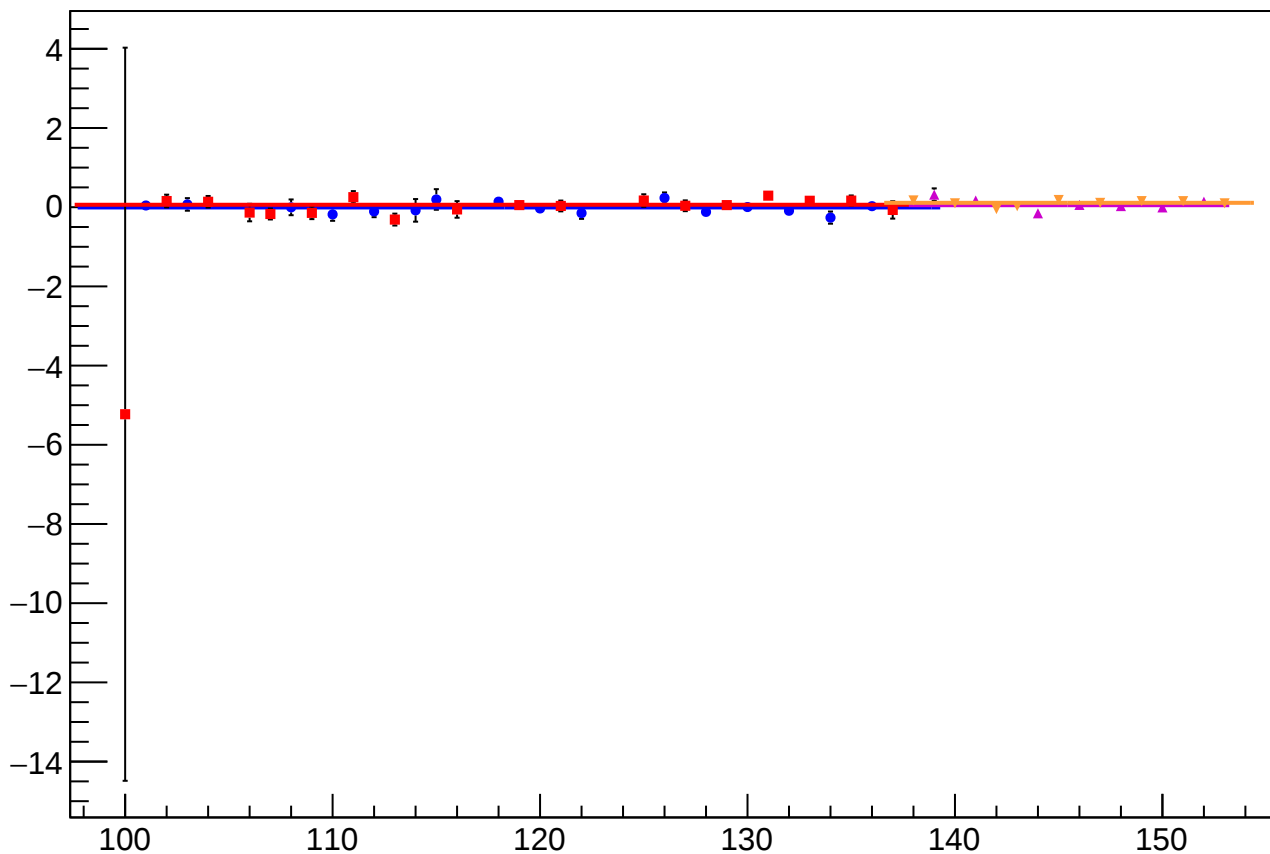
Left In:  $0.041 \pm 0.039$   $\chi^2/\text{NDF}$ : 1.6/6

+ sign  $0.123 \pm 0.030$   $\chi^2/\text{NDF}$ : 24.1/24

All:  $0.114 \pm 0.022$   $\chi^2/\text{NDF}$ : 55.6/49

- sign  $0.105 \pm 0.031$   $\chi^2/\text{NDF}$ : 31.3/24

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.111 \pm 0.030$   $\chi^2/\text{NDF}$ : 4.0/8

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.3/17

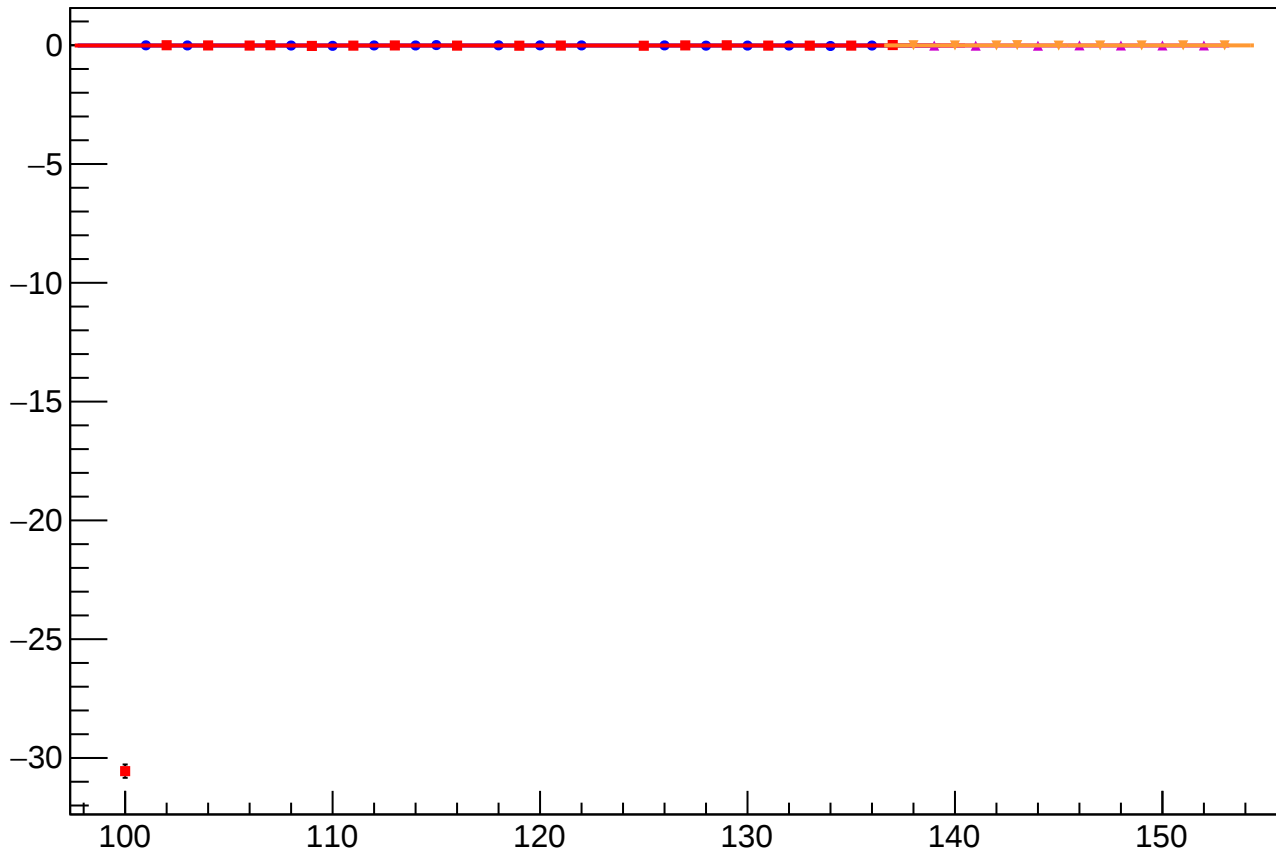
Left In:  $0.050 \pm 0.033$   $\chi^2/\text{NDF}$ : 11.2/6

+ sign  $0.056 \pm 0.022$   $\chi^2/\text{NDF}$ : 24.1/24

All:  $0.056 \pm 0.016$   $\chi^2/\text{NDF}$ : 55.7/49

- sign  $0.056 \pm 0.024$   $\chi^2/\text{NDF}$ : 31.6/24

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.007 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/8

Right Out:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 11890.6/17

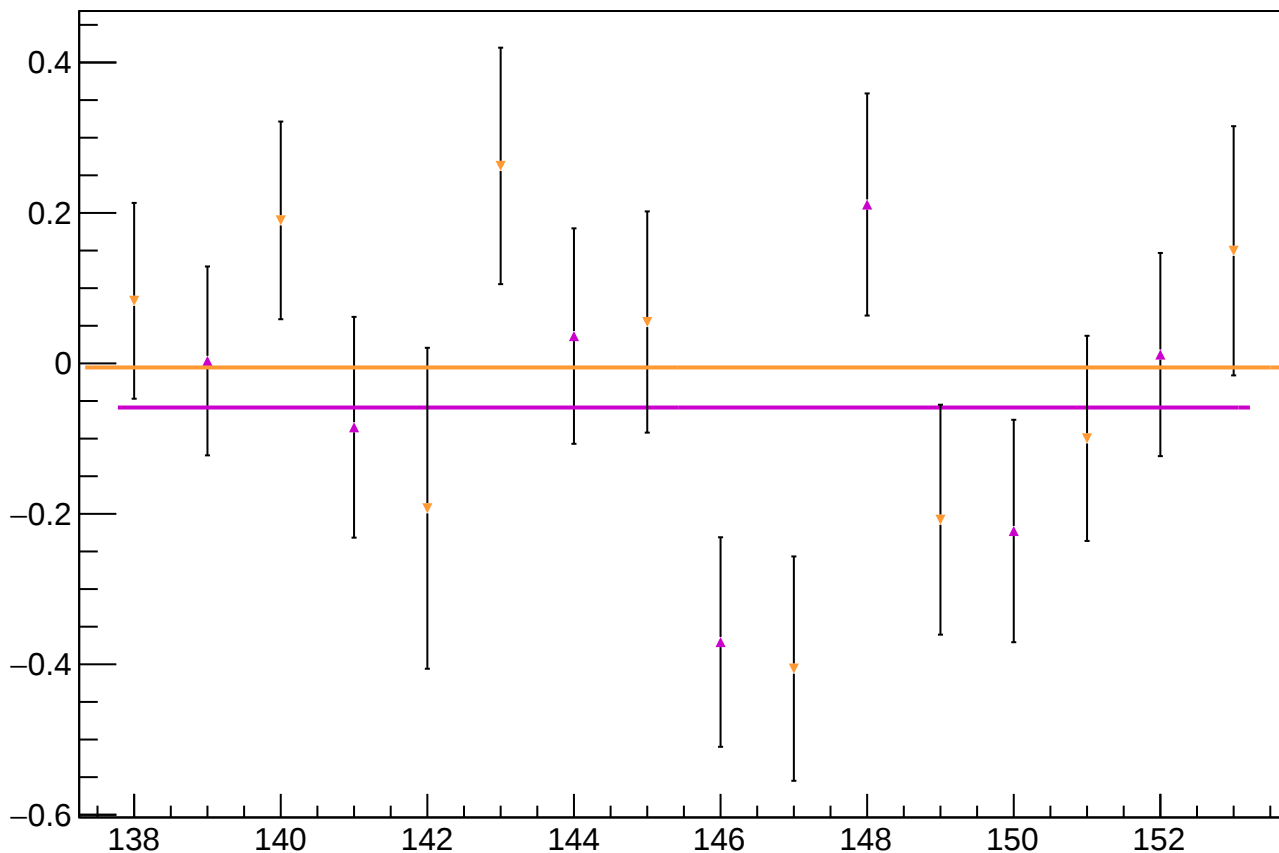
Left In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 7.9/6

+ sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 29.1/24

All:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 11930.9/49

- sign  $-0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 11898.6/24

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.005 $\pm$ 0.050  $\chi^2$ /NDF:16.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

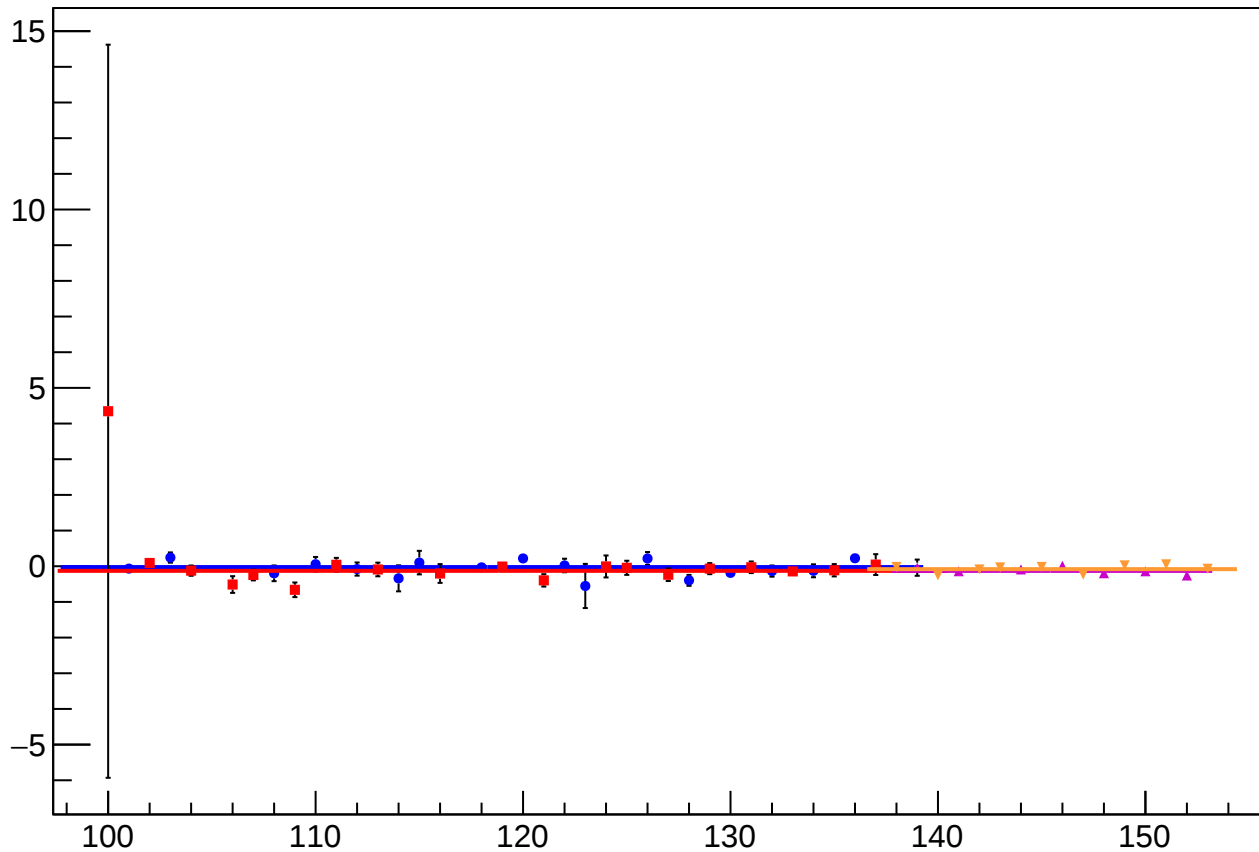
Left In: -0.059 $\pm$ 0.053  $\chi^2$ /NDF:10.6/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.030 $\pm$ 0.036  $\chi^2$ /NDF: 27.9/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.023 \pm 0.037$   $\chi^2/\text{NDF}$ : 22.4/16

Left Out:  $-0.081 \pm 0.034$   $\chi^2/\text{NDF}$ : 11.9/8

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}$ : 18.8/18

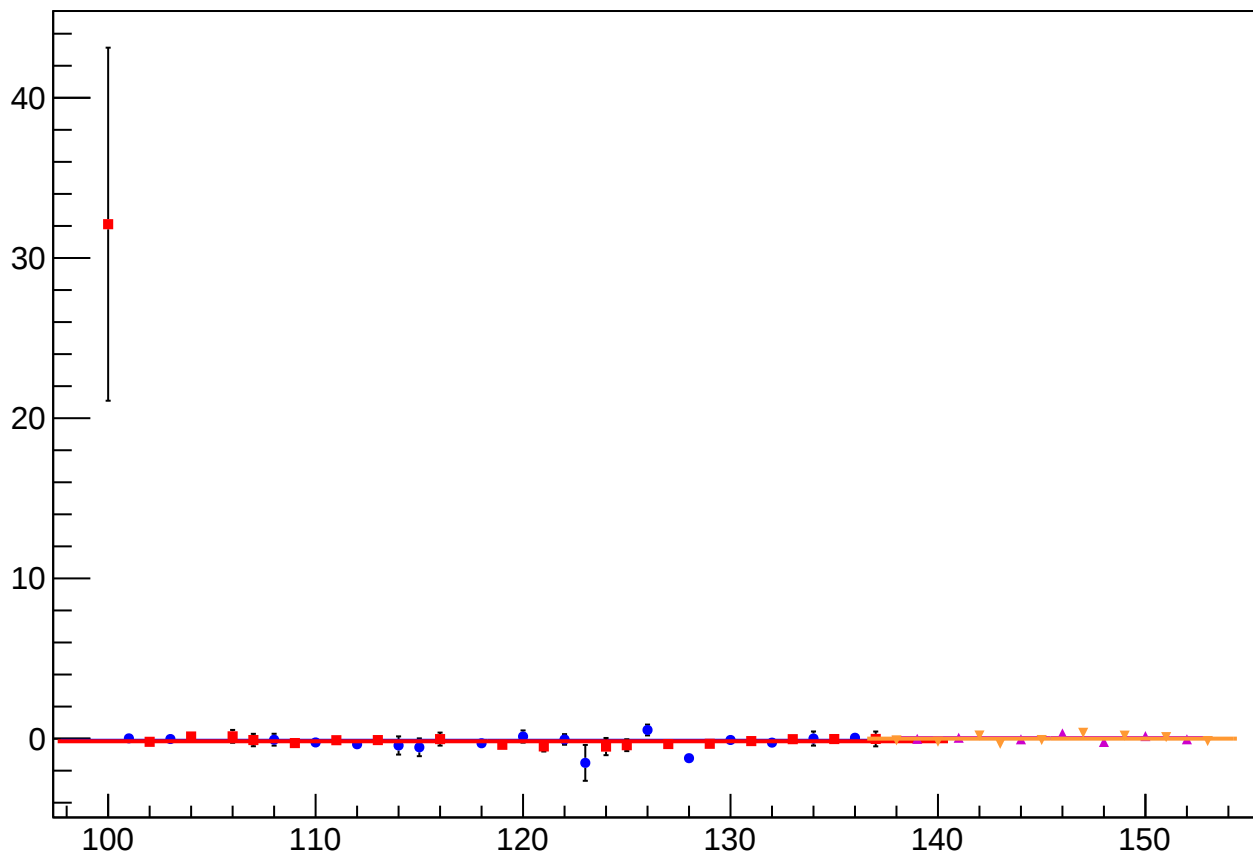
Left In:  $-0.130 \pm 0.037$   $\chi^2/\text{NDF}$ : 5.7/6

+ sign  $-0.055 \pm 0.025$   $\chi^2/\text{NDF}$ : 35.7/25

All:  $-0.089 \pm 0.018$   $\chi^2/\text{NDF}$ : 64.4/51

- sign  $-0.130 \pm 0.027$   $\chi^2/\text{NDF}$ : 24.5/25

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $-0.001 \pm 0.050$   $\chi^2/\text{NDF}$ : 17.3/8

Right Out:  $-0.166 \pm 0.071$   $\chi^2/\text{NDF}$ : 14.7/18

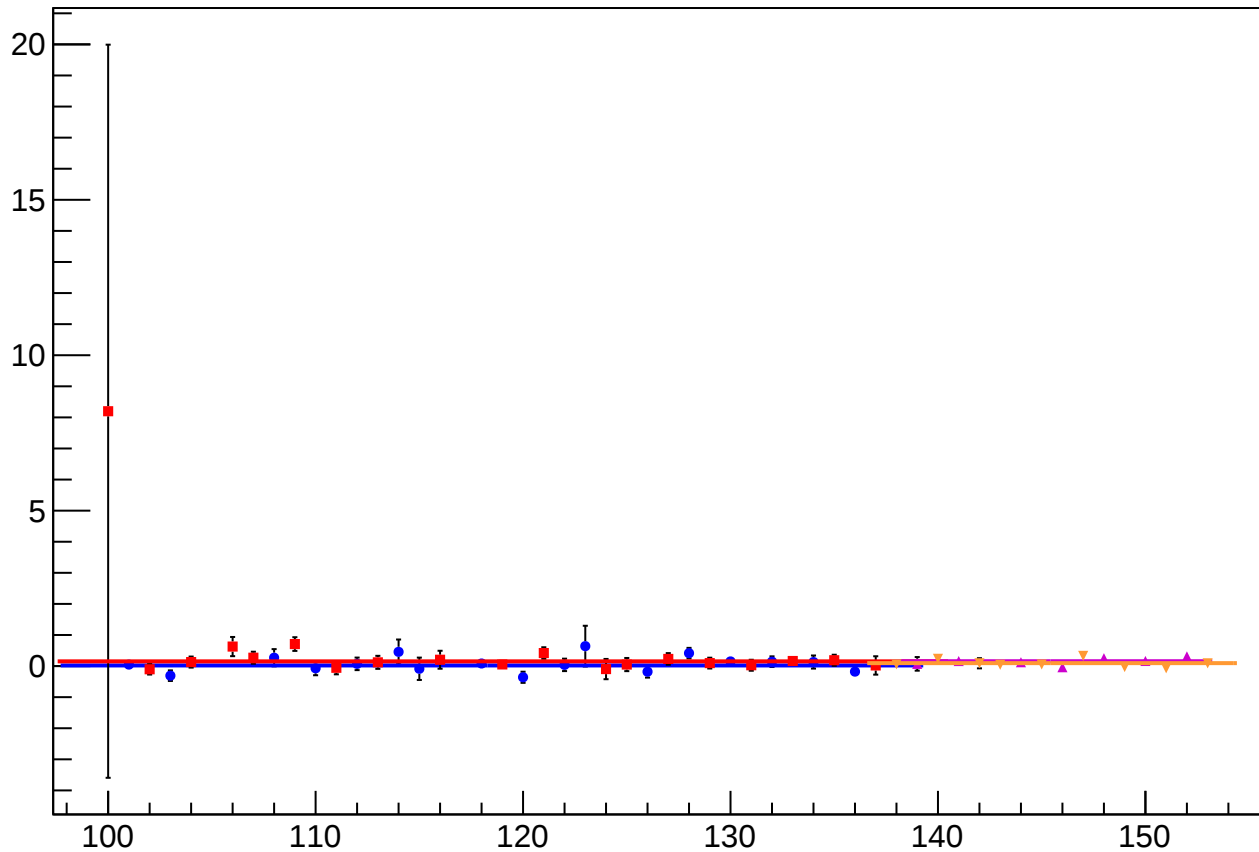
Left In:  $0.036 \pm 0.053$   $\chi^2/\text{NDF}$ : 9.3/6

+ sign  $-0.048 \pm 0.040$   $\chi^2/\text{NDF}$ : 45.6/25

All:  $-0.043 \pm 0.029$   $\chi^2/\text{NDF}$ : 74.9/51

- sign  $-0.036 \pm 0.042$   $\chi^2/\text{NDF}$ : 29.2/25

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.020 \pm 0.042$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $0.095 \pm 0.042$   $\chi^2/\text{NDF}$ : 11.1/8

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}$ : 17.3/18

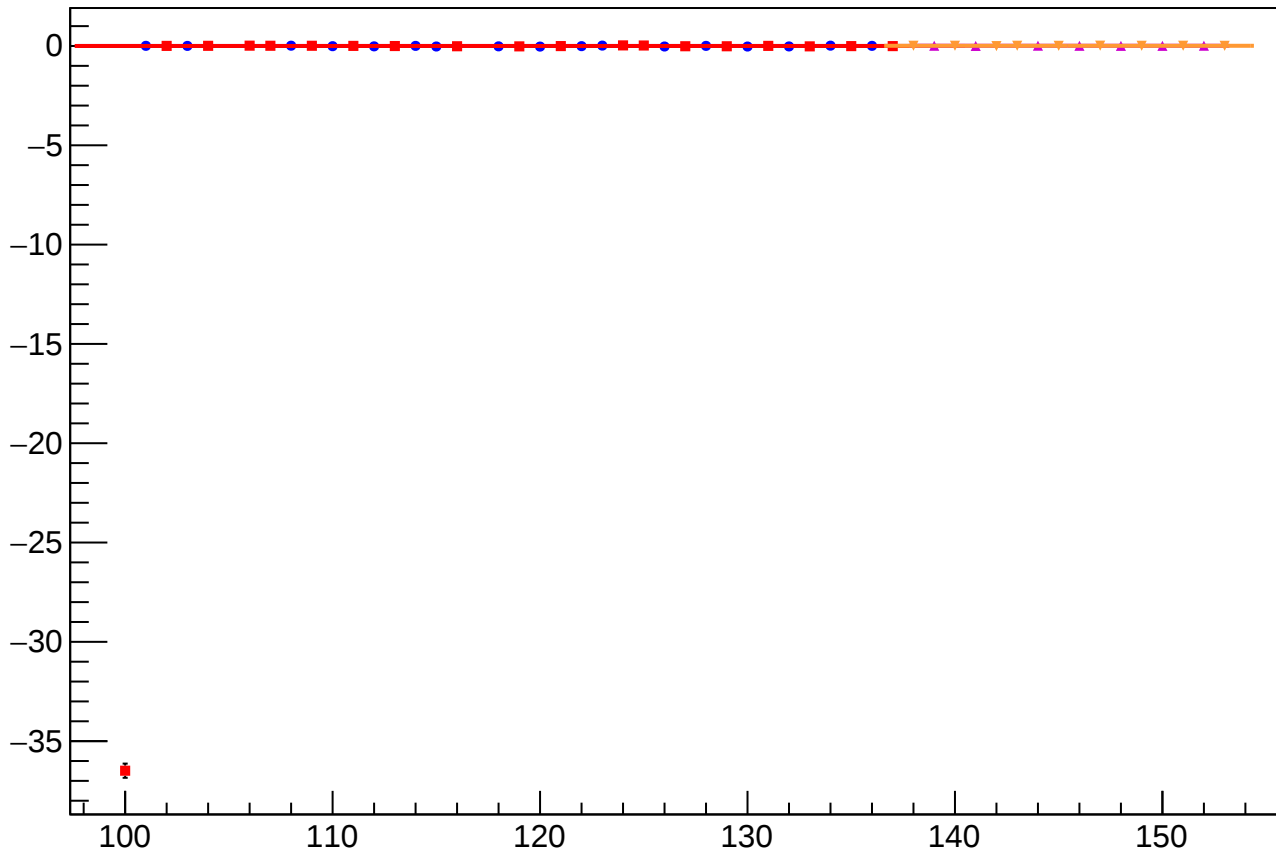
Left In:  $0.156 \pm 0.045$   $\chi^2/\text{NDF}$ : 6.2/6

+ sign  $0.058 \pm 0.030$   $\chi^2/\text{NDF}$ : 34.4/25

All:  $0.102 \pm 0.022$   $\chi^2/\text{NDF}$ : 62.8/51

- sign  $0.154 \pm 0.032$   $\chi^2/\text{NDF}$ : 23.5/25

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 32.0/16

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 4.6/8

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10449.2/18

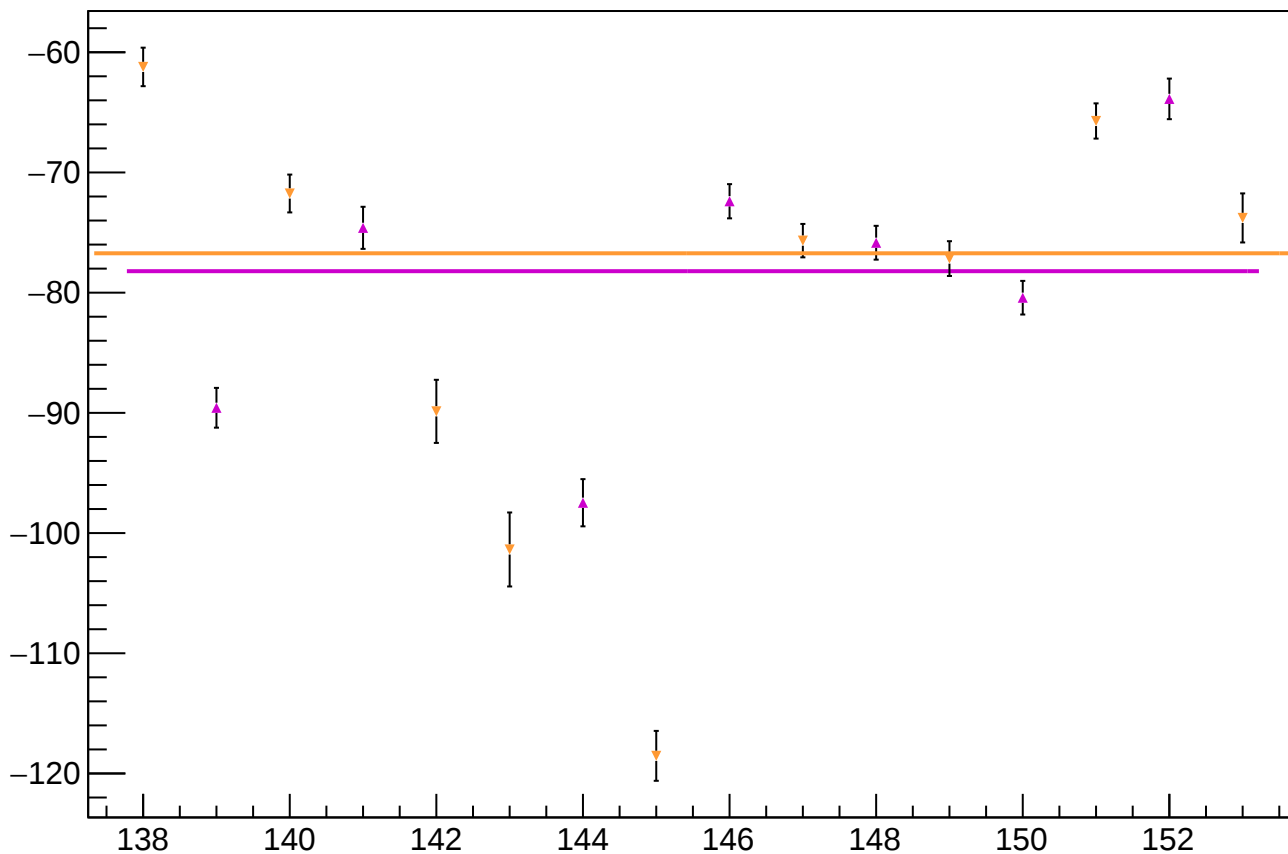
Left In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF: 3.0/6

+ sign 0.006 $\pm$ 0.002  $\chi^2$ /NDF: 45.9/25

All: 0.006 $\pm$ 0.001  $\chi^2$ /NDF: 10508.0/51

- sign 0.006 $\pm$ 0.002  $\chi^2$ /NDF: 10462.1/25

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -76.724+/-0.580  $\chi^2/\text{NDF}$ : 657.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

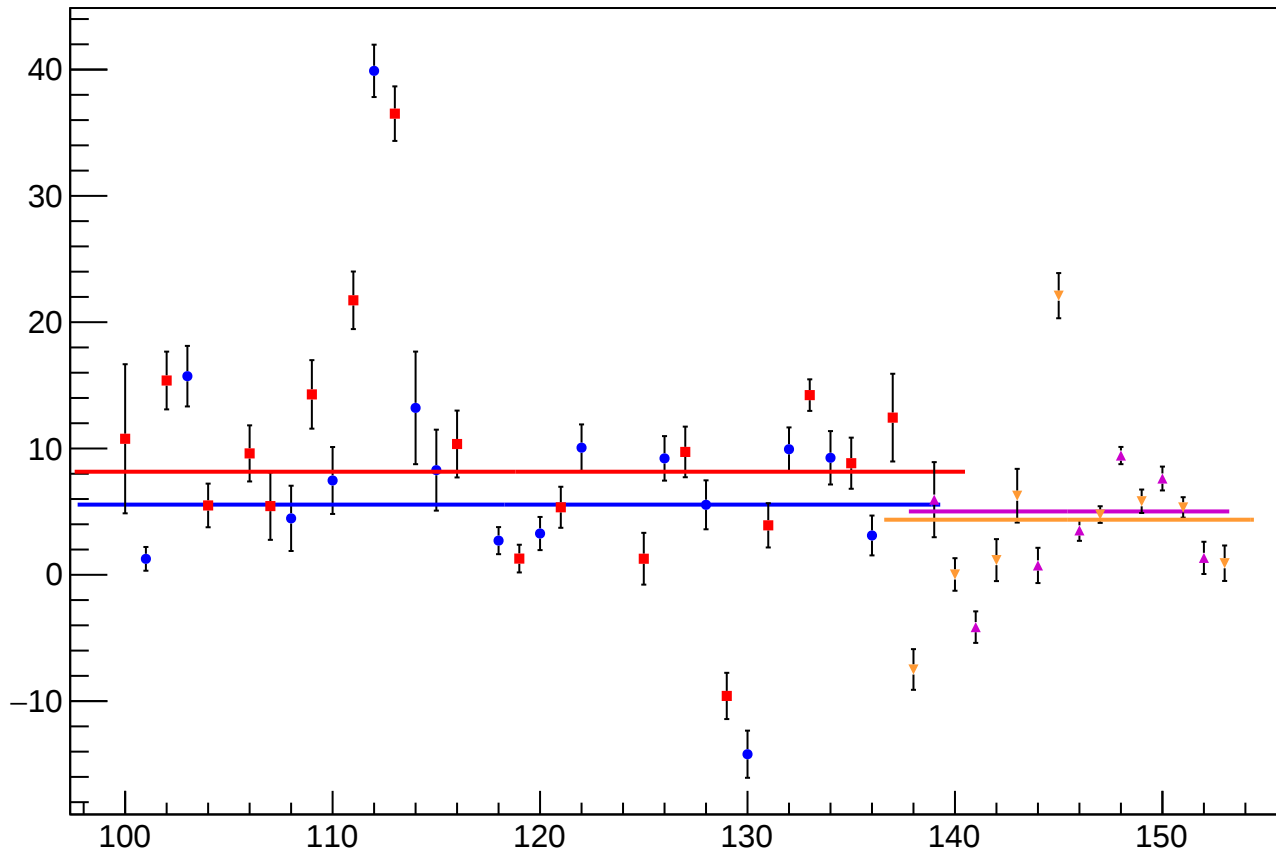
Left In: -78.213+/-0.596  $\chi^2/\text{NDF}$ : 241.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -77.447+/-0.416  $\chi^2/\text{NDF}$ : 902.7/15

- 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:  $4.362 \pm 0.368$   $\chi^2/\text{NDF}$ : 178.7/8

Right Out:  $8.162 \pm 0.453$   $\chi^2/\text{NDF}$ : 407.0/17

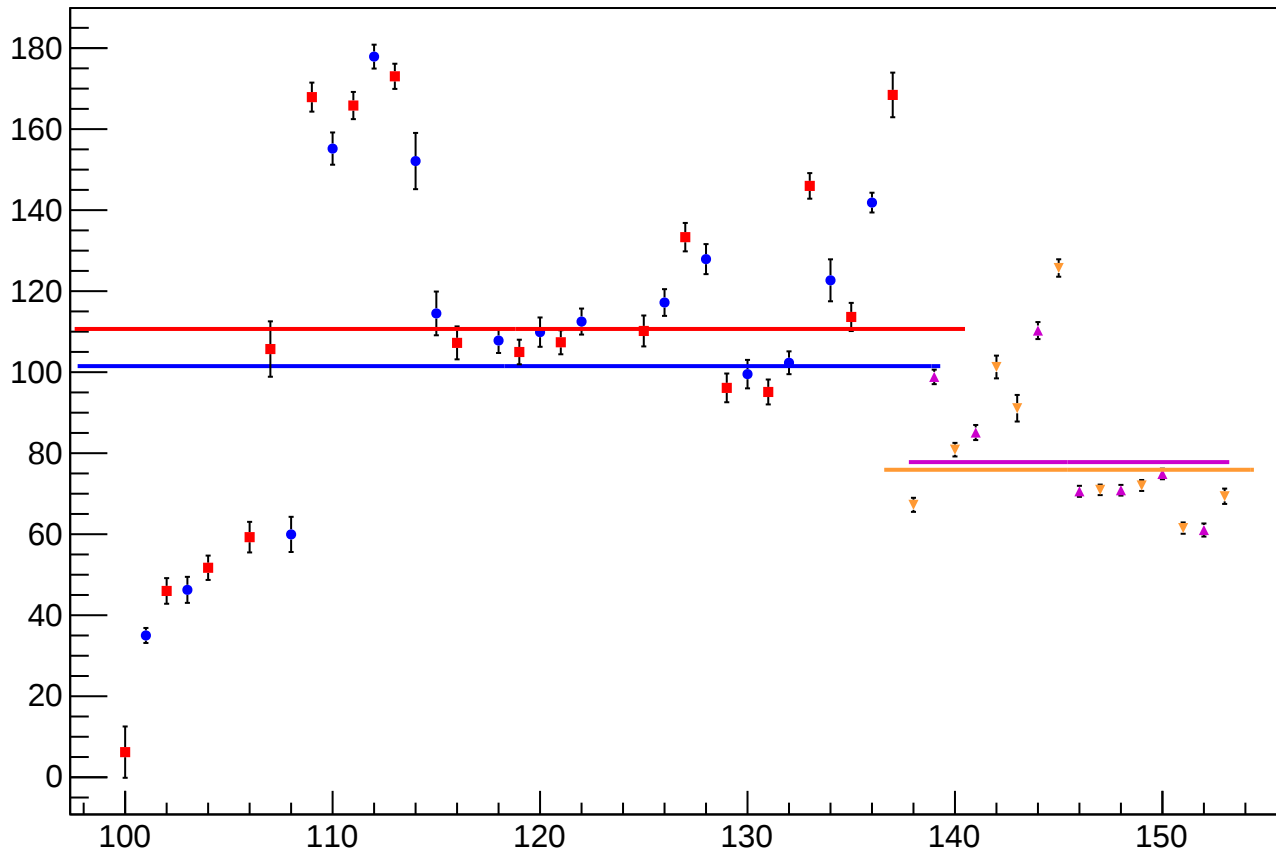
Left In:  $5.017 \pm 0.389$   $\chi^2/\text{NDF}$ : 124.6/6

+ sign  $4.876 \pm 0.278$   $\chi^2/\text{NDF}$ : 645.2/24

All:  $5.569 \pm 0.202$   $\chi^2/\text{NDF}$ : 1217.8/49

- sign  $6.350 \pm 0.295$   $\chi^2/\text{NDF}$ : 559.4/24

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.496 $\pm$ 0.808  $\chi^2/\text{NDF}$ : 2973.0/15

Left Out: 75.909 $\pm$ 0.572  $\chi^2/\text{NDF}$ : 811.8/8

Right Out: 110.670 $\pm$ 0.836  $\chi^2/\text{NDF}$ : 2513.7/17

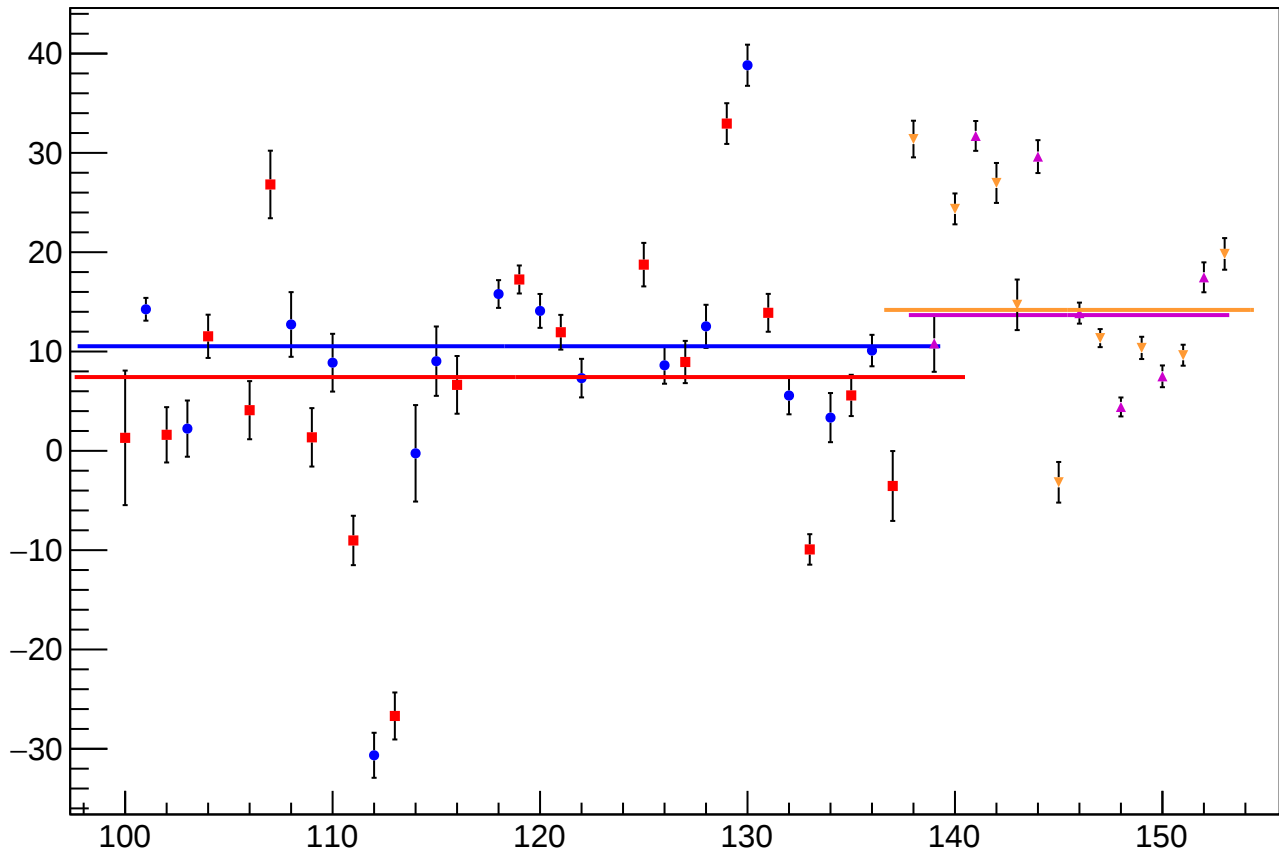
Left In: 77.802 $\pm$ 0.586  $\chi^2/\text{NDF}$ : 560.5/6

+ sign 84.454 $\pm$ 0.467  $\chi^2/\text{NDF}$ : 4452.3/24

All: 86.490 $\pm$ 0.335  $\chi^2/\text{NDF}$ : 8602.0/49

- sign 88.641 $\pm$ 0.480  $\chi^2/\text{NDF}$ : 4110.6/24

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 10.532+/-0.493  $\chi^2/\text{NDF}$ : 580.3/15

Left Out: 14.189+/-0.464  $\chi^2/\text{NDF}$ : 294.7/8

Right Out: 7.429+/-0.524  $\chi^2/\text{NDF}$ : 685.8/17

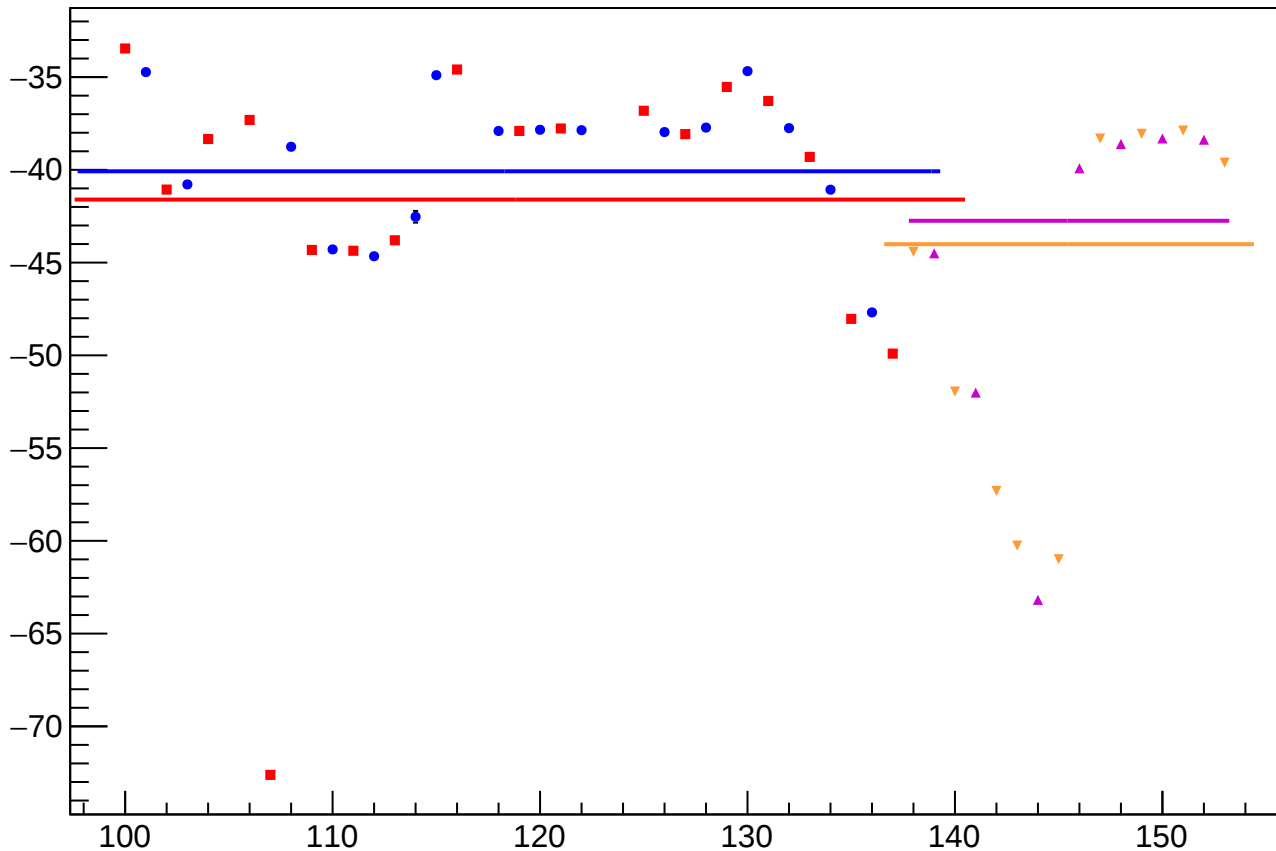
Left In: 13.670+/-0.488  $\chi^2/\text{NDF}$ : 370.1/6

+ sign 12.471+/-0.338  $\chi^2/\text{NDF}$ : 904.2/24

All: 11.666+/-0.245  $\chi^2/\text{NDF}$ : 2048.1/49

- sign 10.767+/-0.357  $\chi^2/\text{NDF}$ : 1131.9/24

# 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: -44.008 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 113756.0/8

Right Out: -41.602 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 61856.4/17

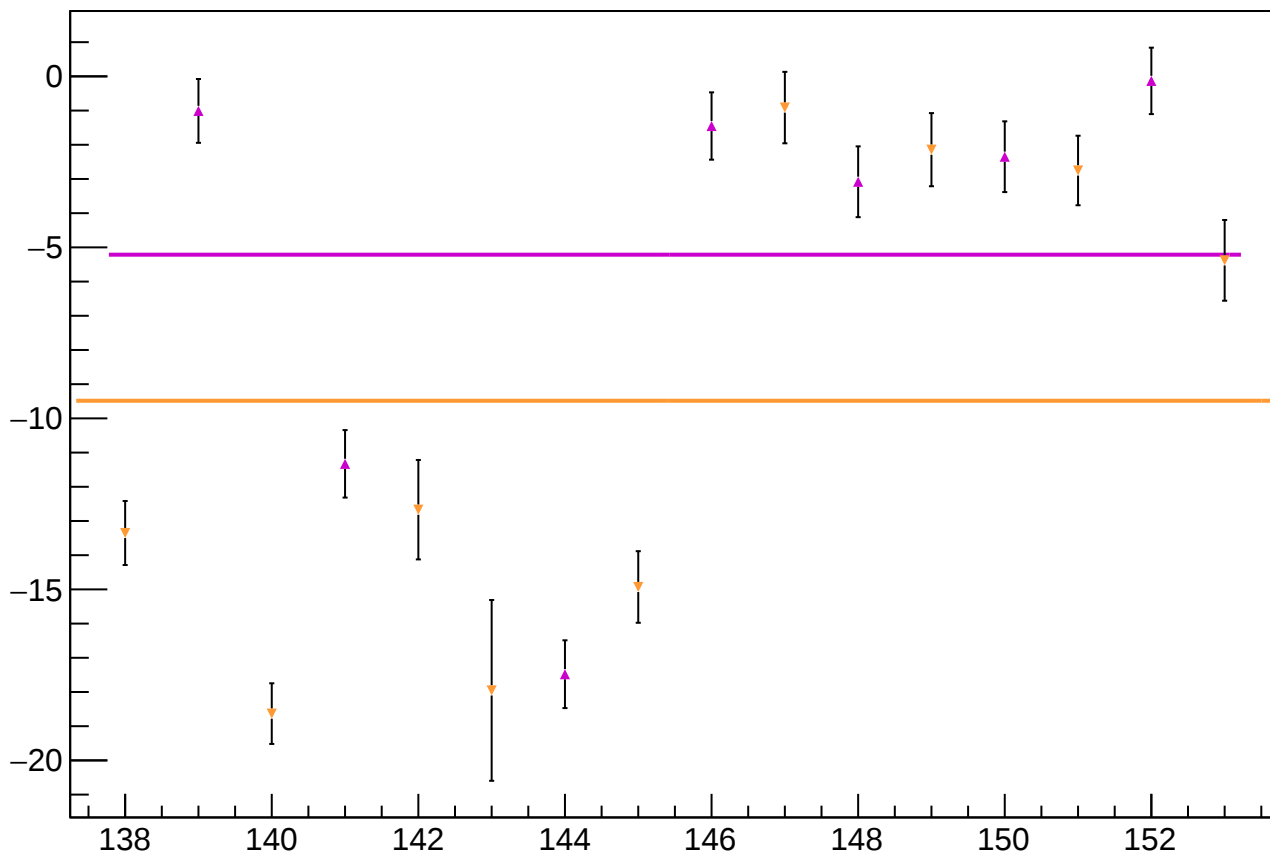
Left In: -42.745 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 83426.9/6

+ sign -42.349 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 150103.0/24

All: -42.306 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 296321.3/49

- sign -42.262 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 146207.2/24

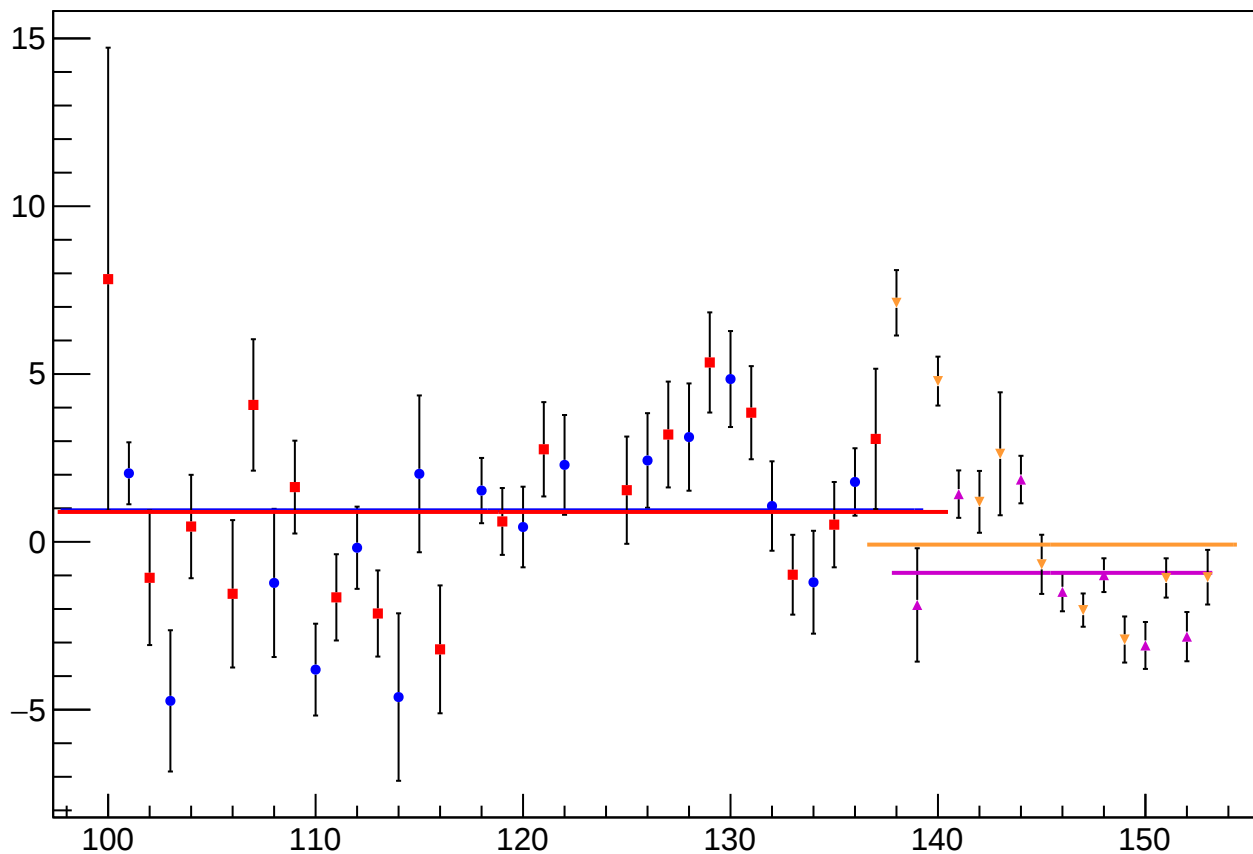
# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.484 $\pm$ 0.367  $\chi^2$ /NDF:336.1/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.214 $\pm$ 0.374  $\chi^2$ /NDF:265.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -7.388 $\pm$ 0.262  $\chi^2$ /NDF: 668.4/15  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.939 \pm 0.339$   $\chi^2/\text{NDF}: 42.2/15$

Left Out:  $-0.082 \pm 0.248$   $\chi^2/\text{NDF}: 140.6/8$

Right Out:  $0.891 \pm 0.354$   $\chi^2/\text{NDF}: 41.6/17$

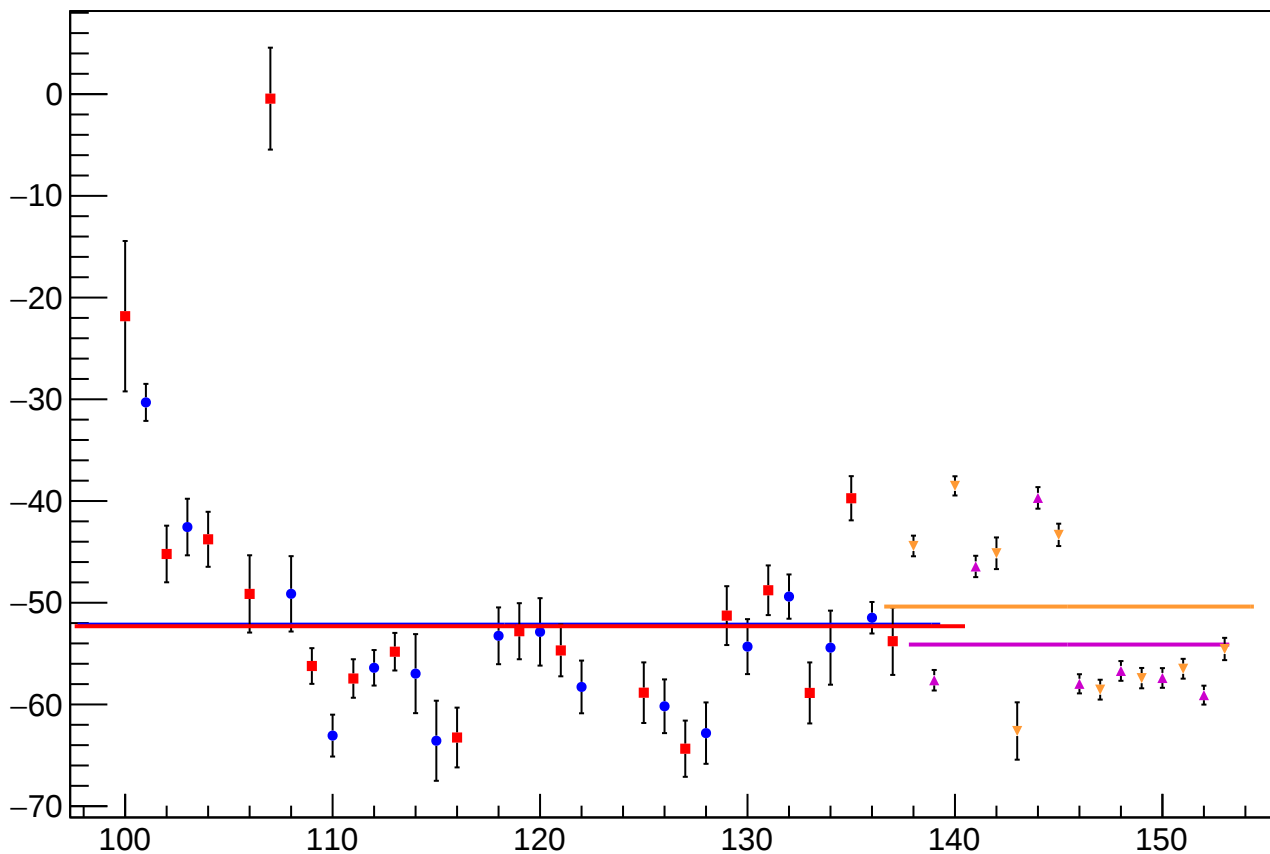
Left In:  $-0.924 \pm 0.257$   $\chi^2/\text{NDF}: 44.0/6$

+ sign  $0.274 \pm 0.200$   $\chi^2/\text{NDF}: 188.8/24$

All:  $-0.001 \pm 0.144$   $\chi^2/\text{NDF}: 295.5/49$

- sign  $-0.297 \pm 0.208$   $\chi^2/\text{NDF}: 102.8/24$

# 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:  $-50.376 \pm 0.368$   $\chi^2/\text{NDF}$ : 437.2/8

Right Out:  $-52.310 \pm 0.616$   $\chi^2/\text{NDF}$ : 234.8/17

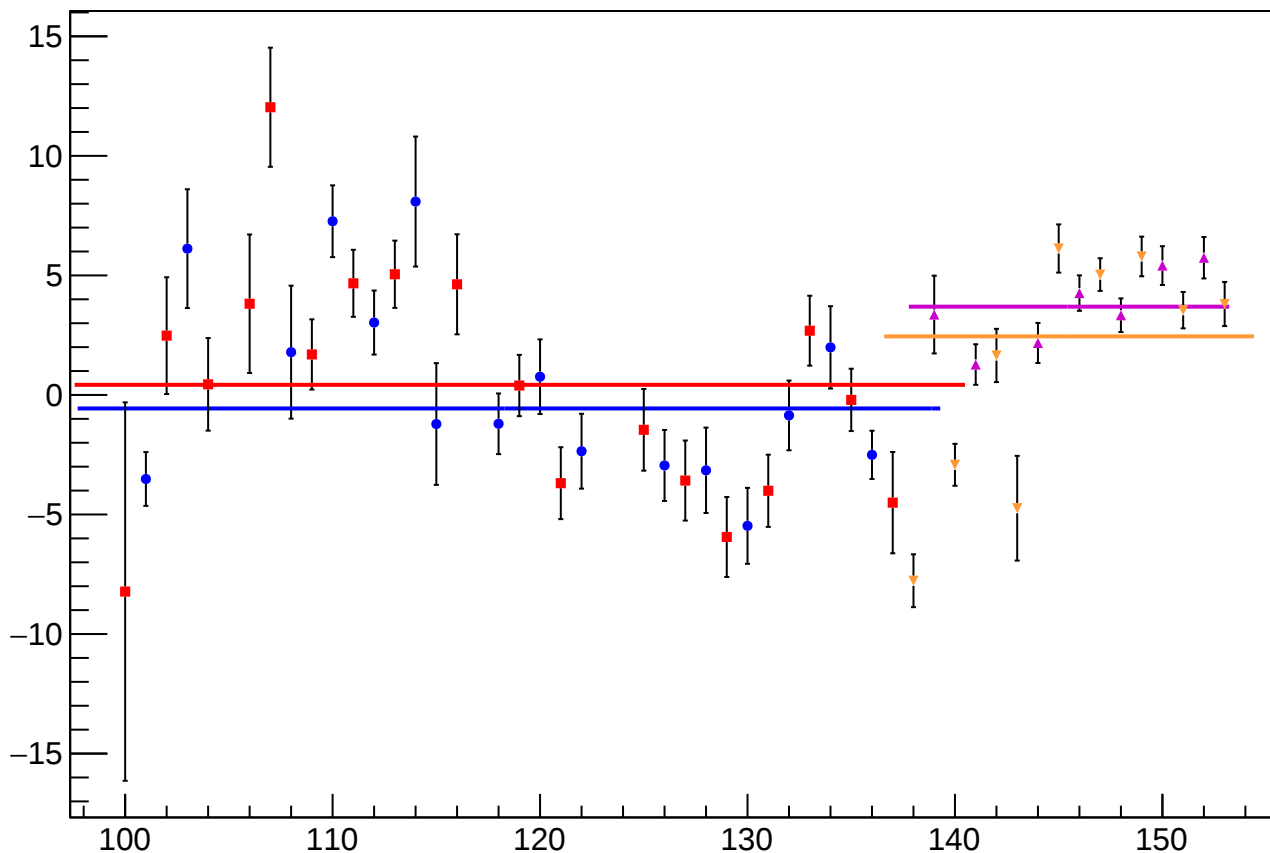
Left In:  $-54.111 \pm 0.373$   $\chi^2/\text{NDF}$ : 314.6/6

+ sign  $-50.847 \pm 0.315$   $\chi^2/\text{NDF}$ : 674.4/24

All:  $-52.221 \pm 0.224$   $\chi^2/\text{NDF}$ : 1268.6/49

- sign  $-53.628 \pm 0.319$   $\chi^2/\text{NDF}$ : 555.7/24

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.565 \pm 0.384$   $\chi^2/\text{NDF}$ : 81.8/15

Left Out:  $2.450 \pm 0.307$   $\chi^2/\text{NDF}$ : 182.5/8

Right Out:  $0.423 \pm 0.400$   $\chi^2/\text{NDF}$ : 95.3/17

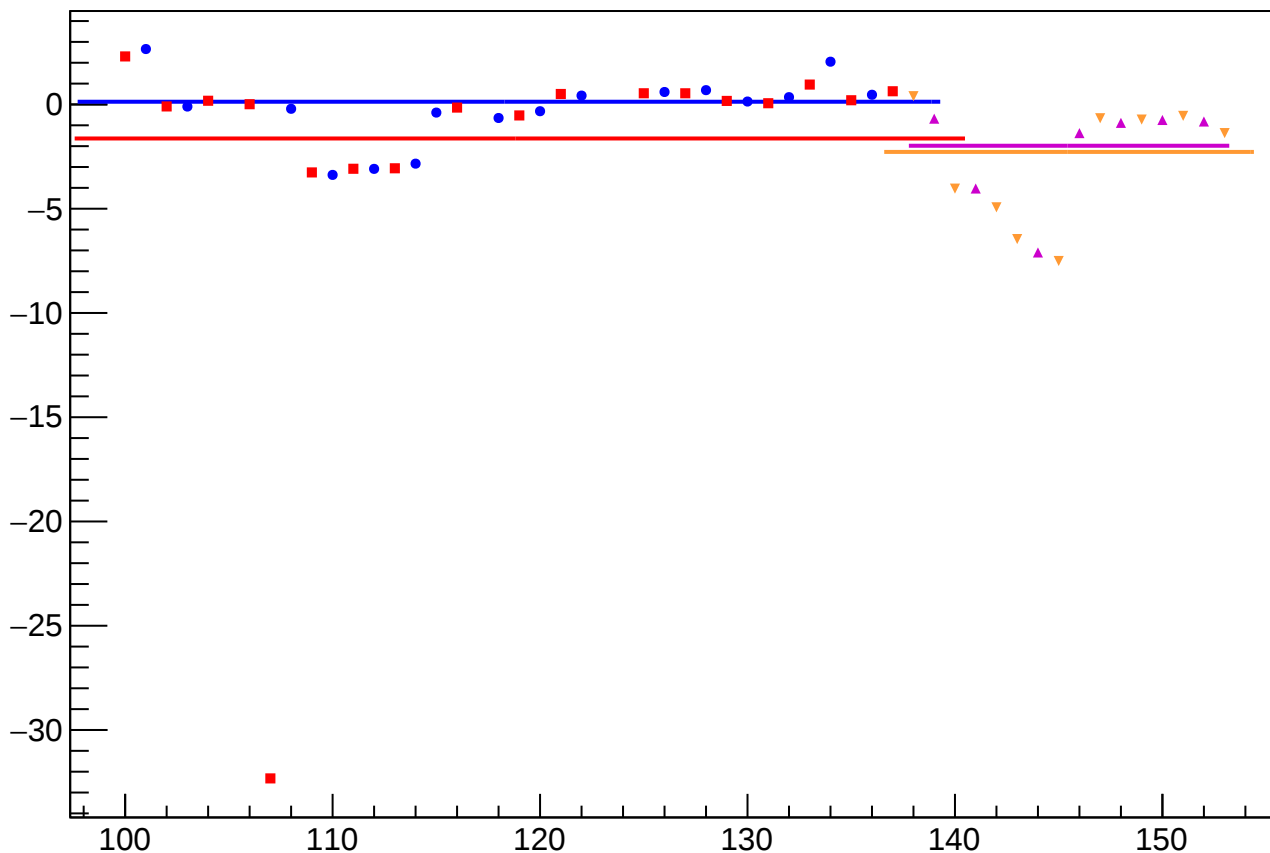
Left In:  $3.693 \pm 0.318$   $\chi^2/\text{NDF}$ : 22.4/6

+ sign  $1.277 \pm 0.240$   $\chi^2/\text{NDF}$ : 302.0/24

All:  $1.830 \pm 0.173$   $\chi^2/\text{NDF}$ : 471.7/49

- sign  $2.425 \pm 0.249$   $\chi^2/\text{NDF}$ : 158.7/24

# 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:  $-2.276 \pm 0.015$   $\chi^2/\text{NDF}: 28955.9/8$

Right Out:  $-1.632 \pm 0.022$   $\chi^2/\text{NDF}: 77874.4/17$

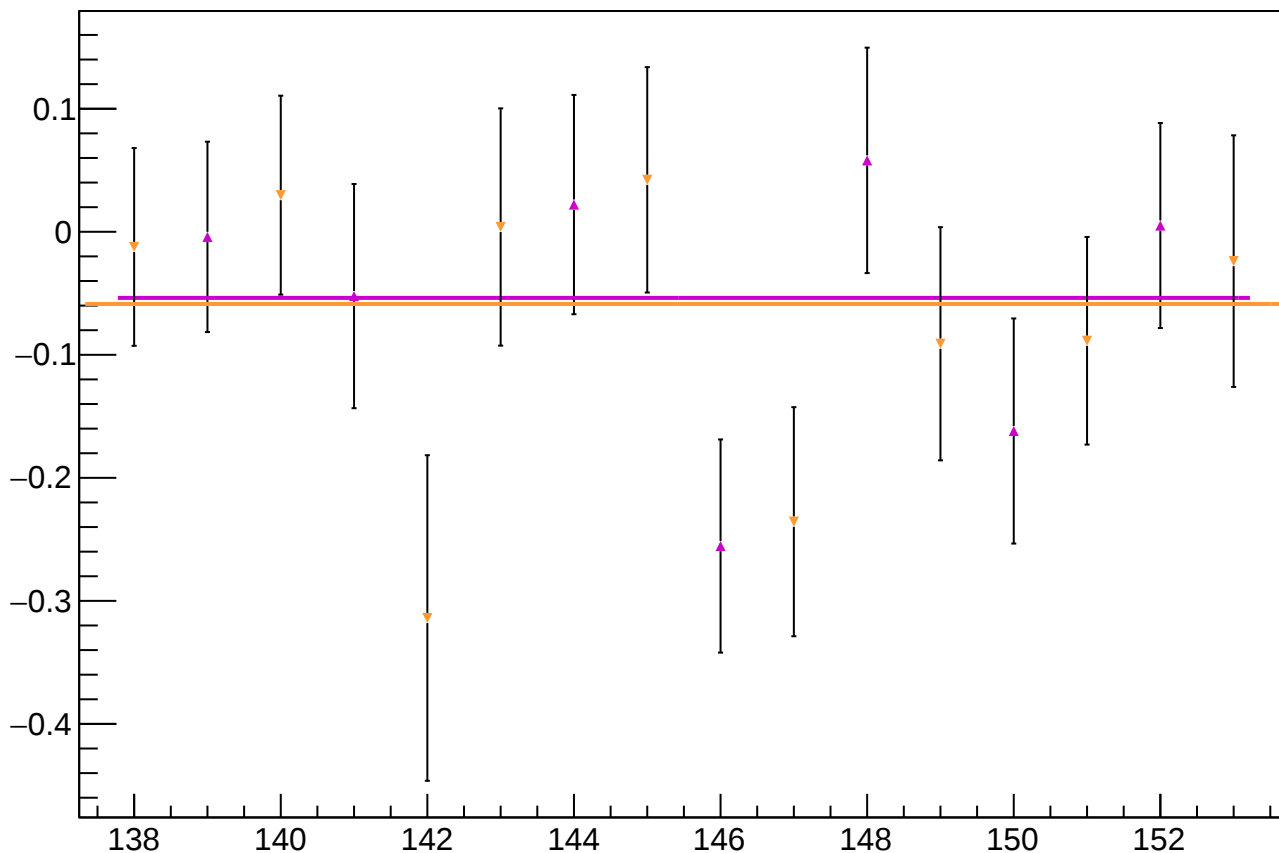
Left In:  $-1.980 \pm 0.015$   $\chi^2/\text{NDF}: 18644.6/6$

+ sign  $-1.475 \pm 0.012$   $\chi^2/\text{NDF}: 42533.6/24$

All:  $-1.667 \pm 0.009$   $\chi^2/\text{NDF}: 139708.1/49$

- sign  $-1.864 \pm 0.013$   $\chi^2/\text{NDF}: 96689.2/24$

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.059 $\pm$ 0.031  $\chi^2$ /NDF: 10.9/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

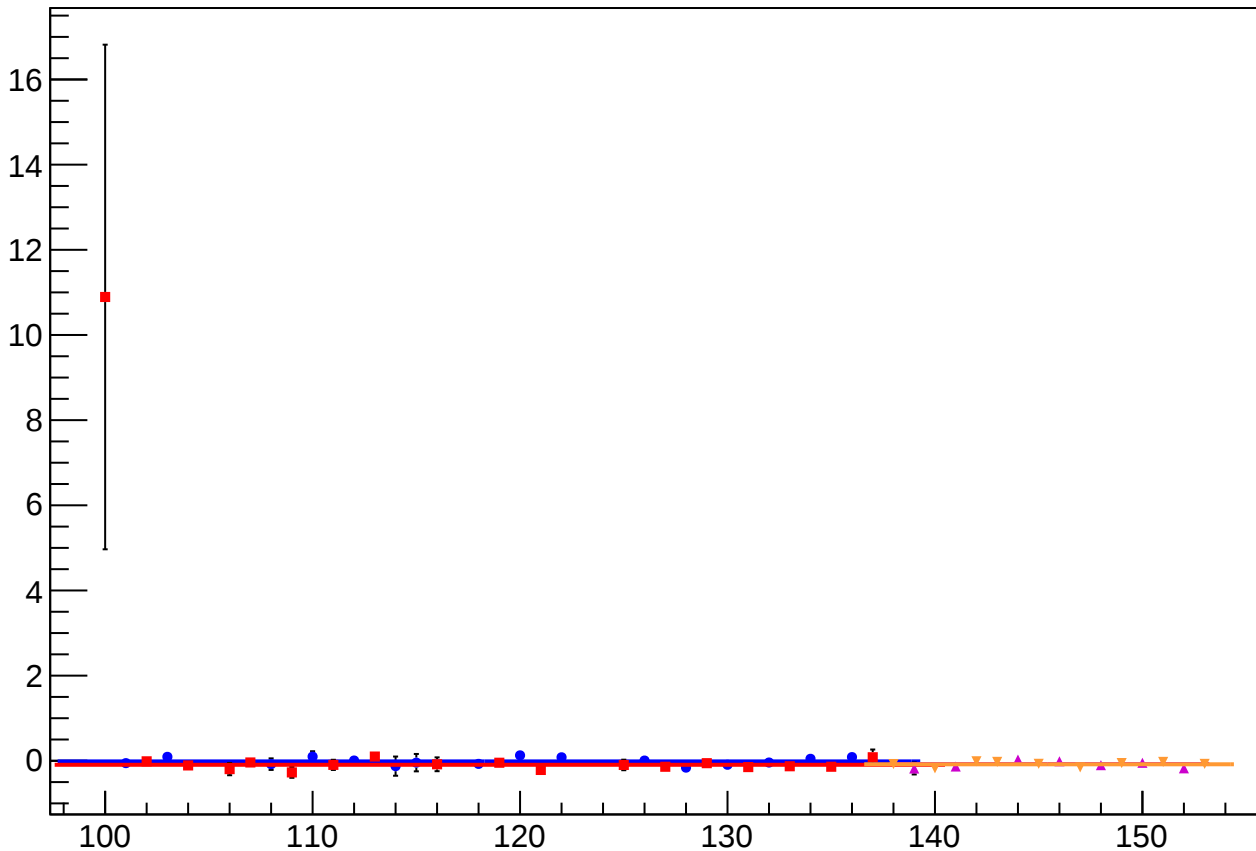
Left In: -0.054 $\pm$ 0.033  $\chi^2$ /NDF: 9.9/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.056 $\pm$ 0.022  $\chi^2$ /NDF: 20.8/15

- 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:  $-0.082 \pm 0.021$   $\chi^2/\text{NDF}$ : 7.8/8

Right Out:  $-0.093 \pm 0.025$   $\chi^2/\text{NDF}$ : 13.5/17

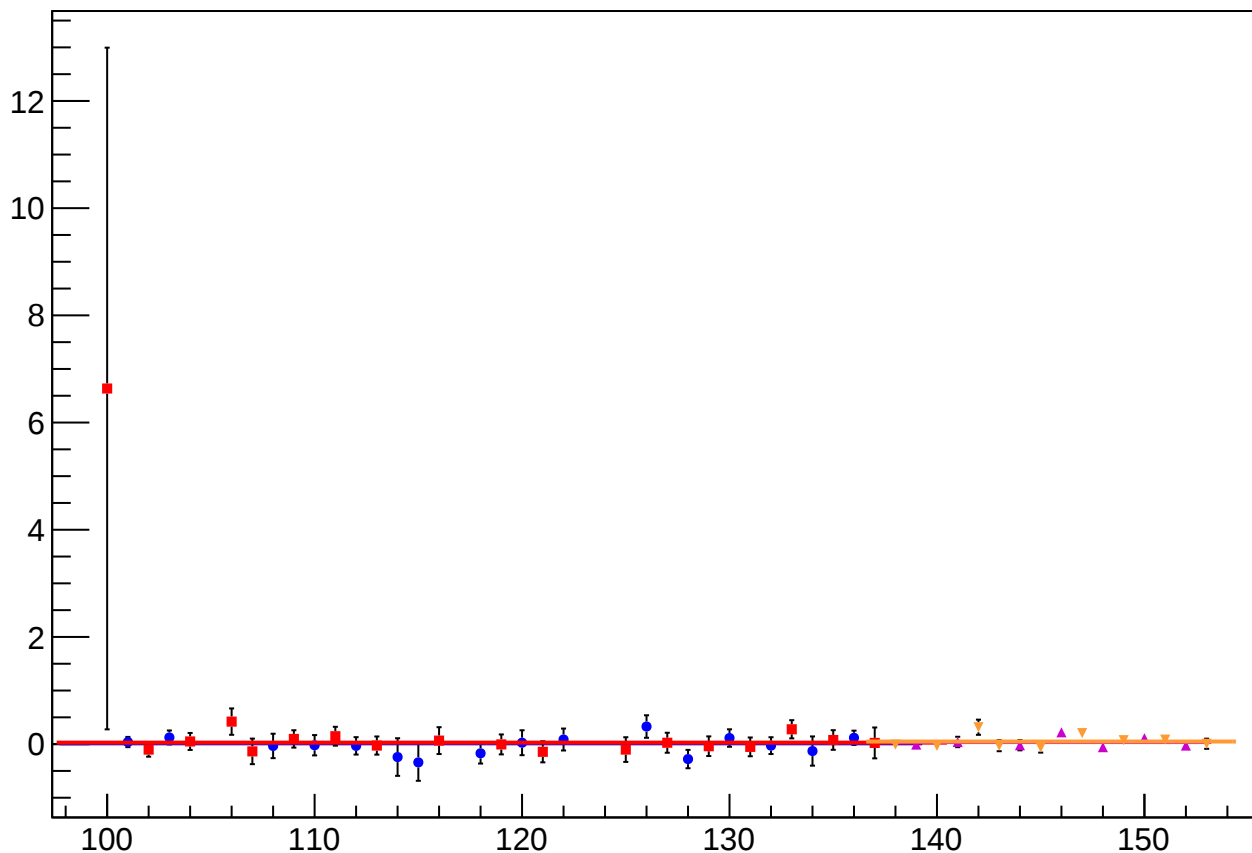
Left In:  $-0.076 \pm 0.023$   $\chi^2/\text{NDF}$ : 8.7/6

+ sign  $-0.052 \pm 0.016$   $\chi^2/\text{NDF}$ : 25.0/24

All:  $-0.066 \pm 0.011$   $\chi^2/\text{NDF}$ : 49.5/49

- sign  $-0.084 \pm 0.017$   $\chi^2/\text{NDF}$ : 22.6/24

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.015 $\pm$ 0.043  $\chi^2$ /NDF: 10.1/15

Left Out: 0.049 $\pm$ 0.031  $\chi^2$ /NDF:10.5/8

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 9.5/17

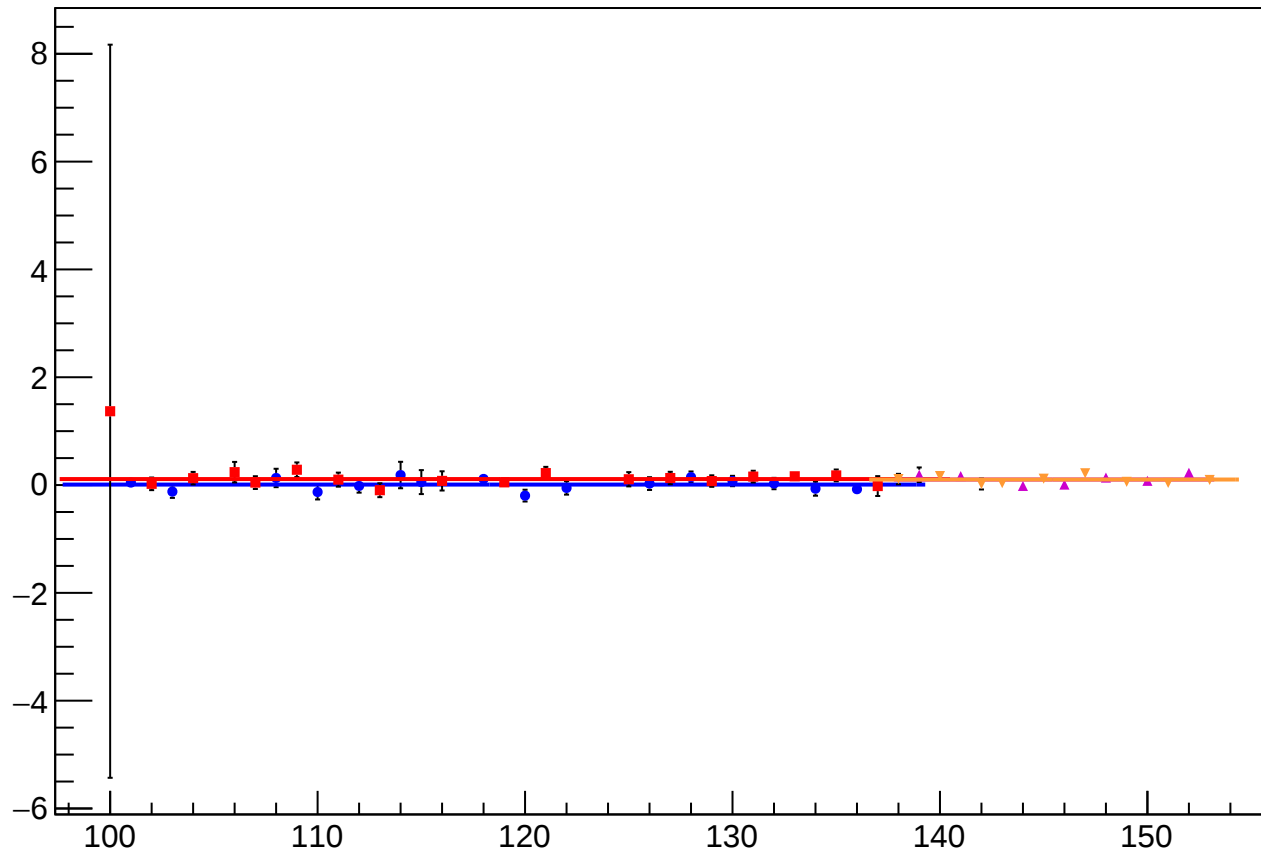
Left In: 0.039 $\pm$ 0.033  $\chi^2$ /NDF:8.1/6

+ sign 0.037 $\pm$ 0.025  $\chi^2$ /NDF: 21.0/24

All: 0.036 $\pm$ 0.018  $\chi^2$ /NDF: 38.7/49

- sign 0.035 $\pm$ 0.026  $\chi^2$ /NDF: 17.7/24

# 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:  $0.103 \pm 0.026$   $\chi^2/\text{NDF}$ : 7.1/8

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.6/17

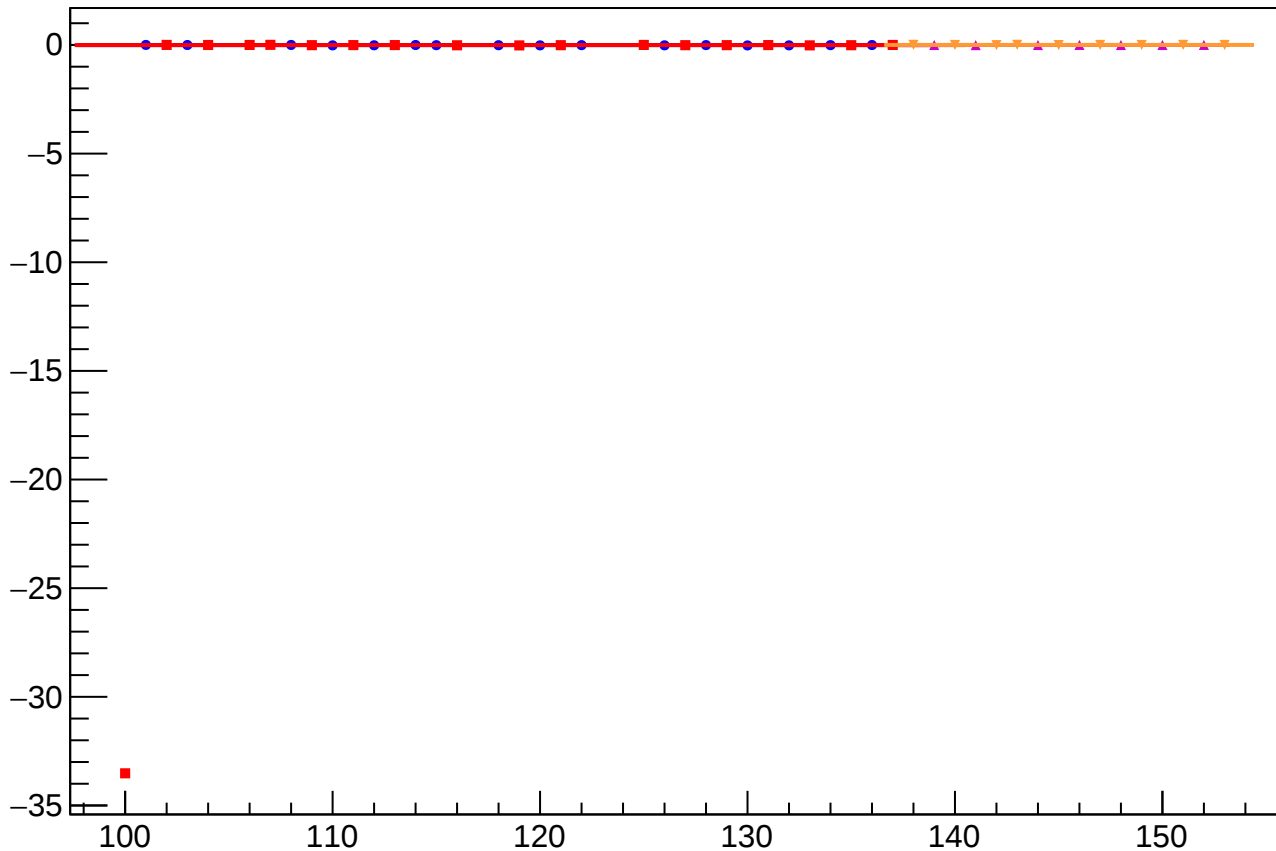
Left In:  $0.102 \pm 0.028$   $\chi^2/\text{NDF}$ : 8.9/6

+ sign  $0.058 \pm 0.019$   $\chi^2/\text{NDF}$ : 26.0/24

All:  $0.080 \pm 0.014$   $\chi^2/\text{NDF}$ : 46.8/49

- sign  $0.107 \pm 0.020$   $\chi^2/\text{NDF}$ : 17.6/24

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 22.3/15

Left Out:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 8.7/8

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 26508.9/17

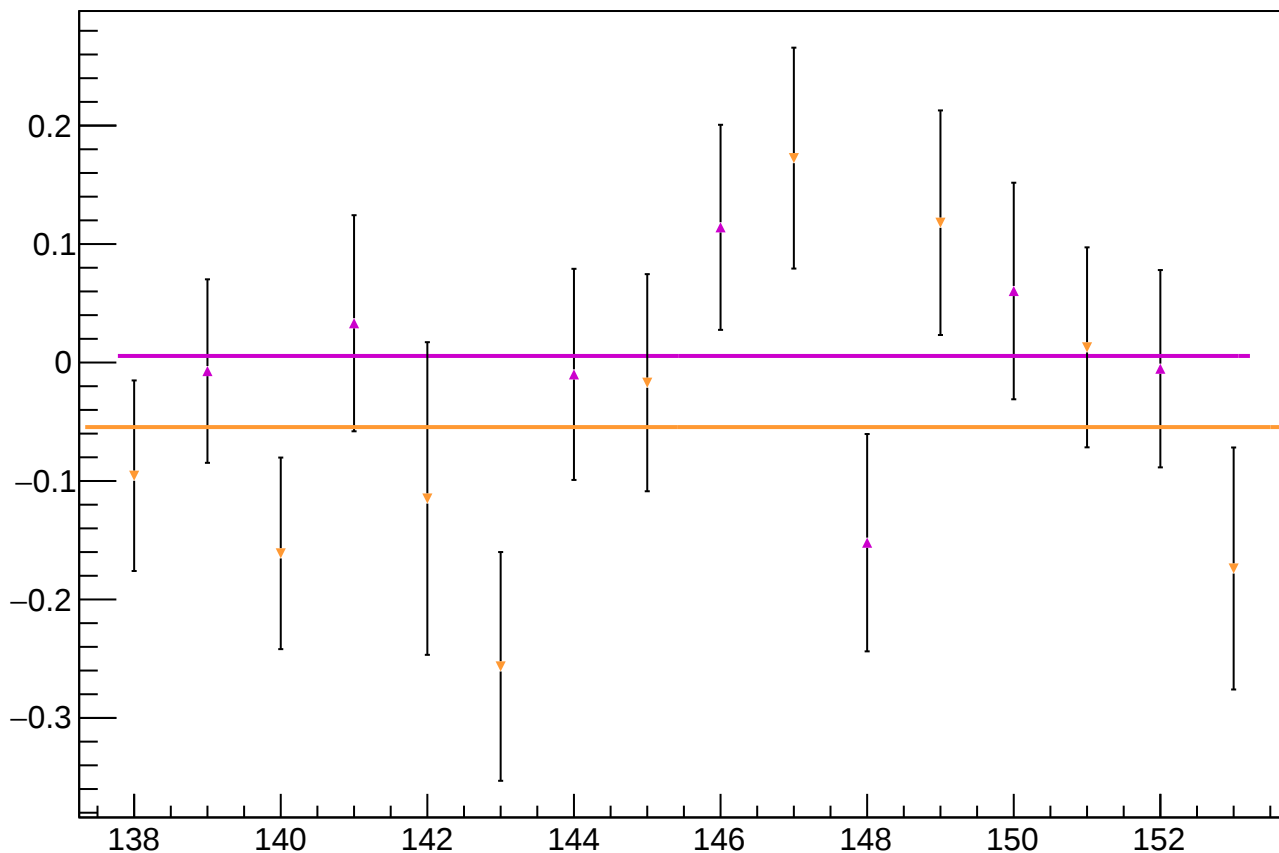
Left In:  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 4.5/6

+ sign  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 43.7/24

All:  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 26564.9/49

- sign  $-0.003 \pm 0.001$   $\chi^2/\text{NDF}$ : 26519.9/24

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.054 $\pm$ 0.031  $\chi^2$ /NDF:18.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

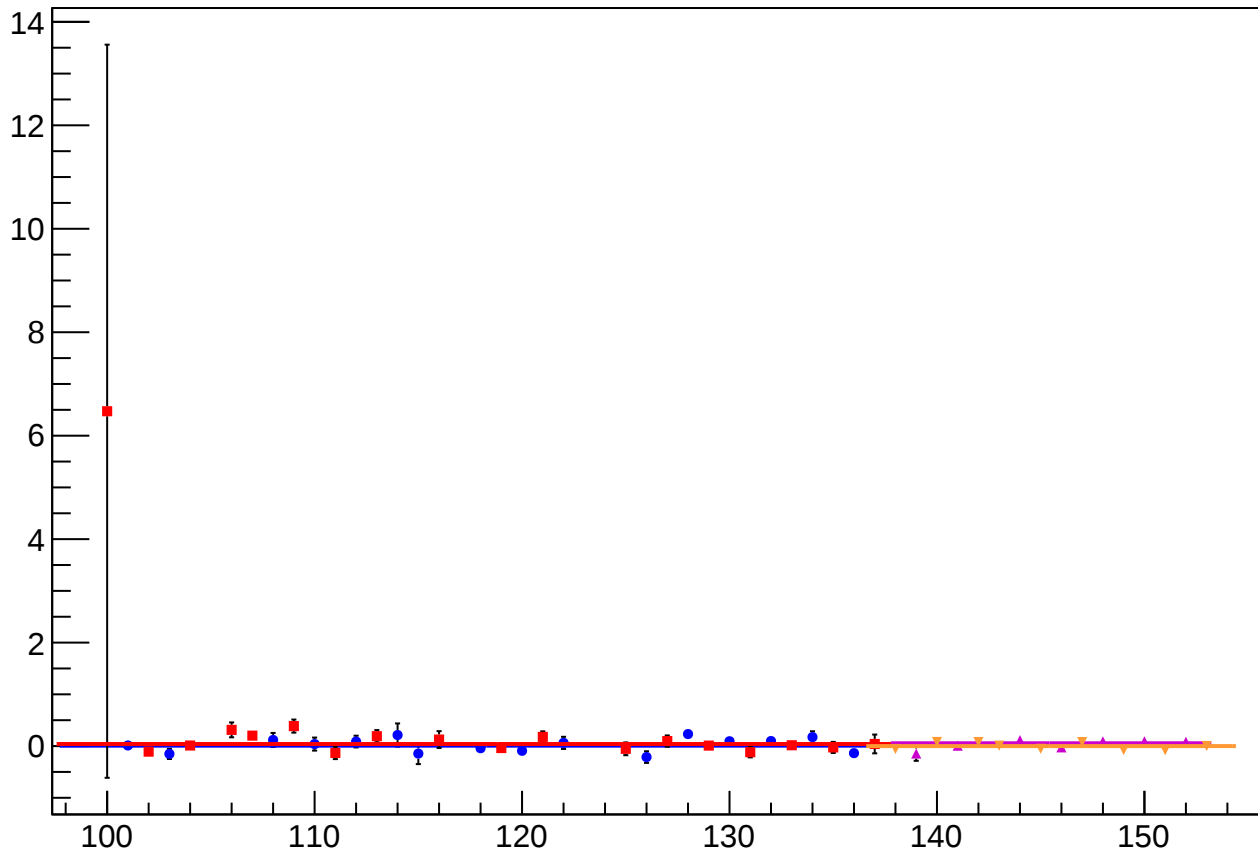
Left In: 0.006 $\pm$ 0.033  $\chi^2$ /NDF:5.1/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.026 $\pm$ 0.022  $\chi^2$ /NDF: 24.8/15

- 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: -0.001 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 10.6/8

Right Out: 0.039 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 28.4/17

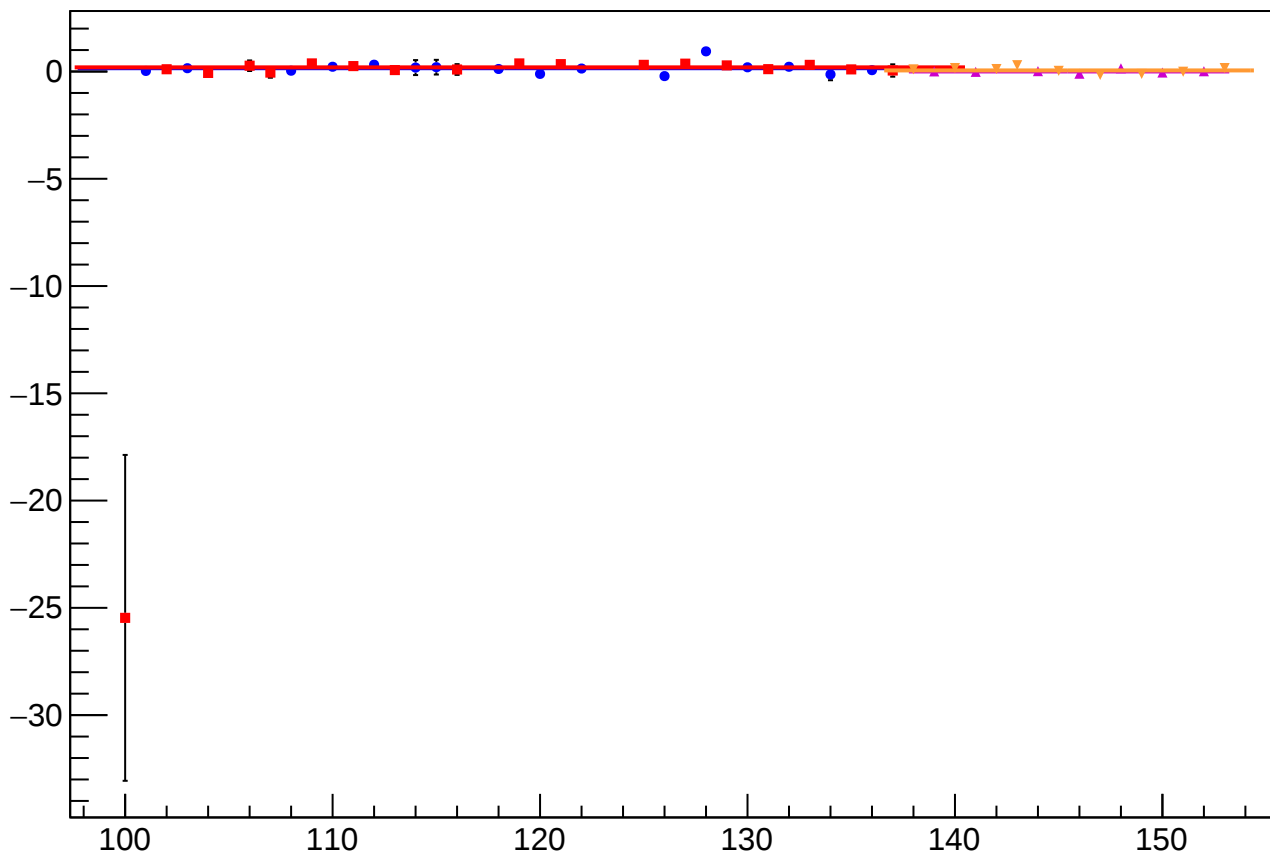
Left In: 0.054 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 7.1/6

+ sign 0.003 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 34.3/24

All: 0.024 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 73.8/49

- sign 0.047 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 35.7/24

# 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:  $0.050 \pm 0.031$   $\chi^2/\text{NDF}$ : 19.0/8

Right Out:  $0.193 \pm 0.045$   $\chi^2/\text{NDF}$ : 22.0/17

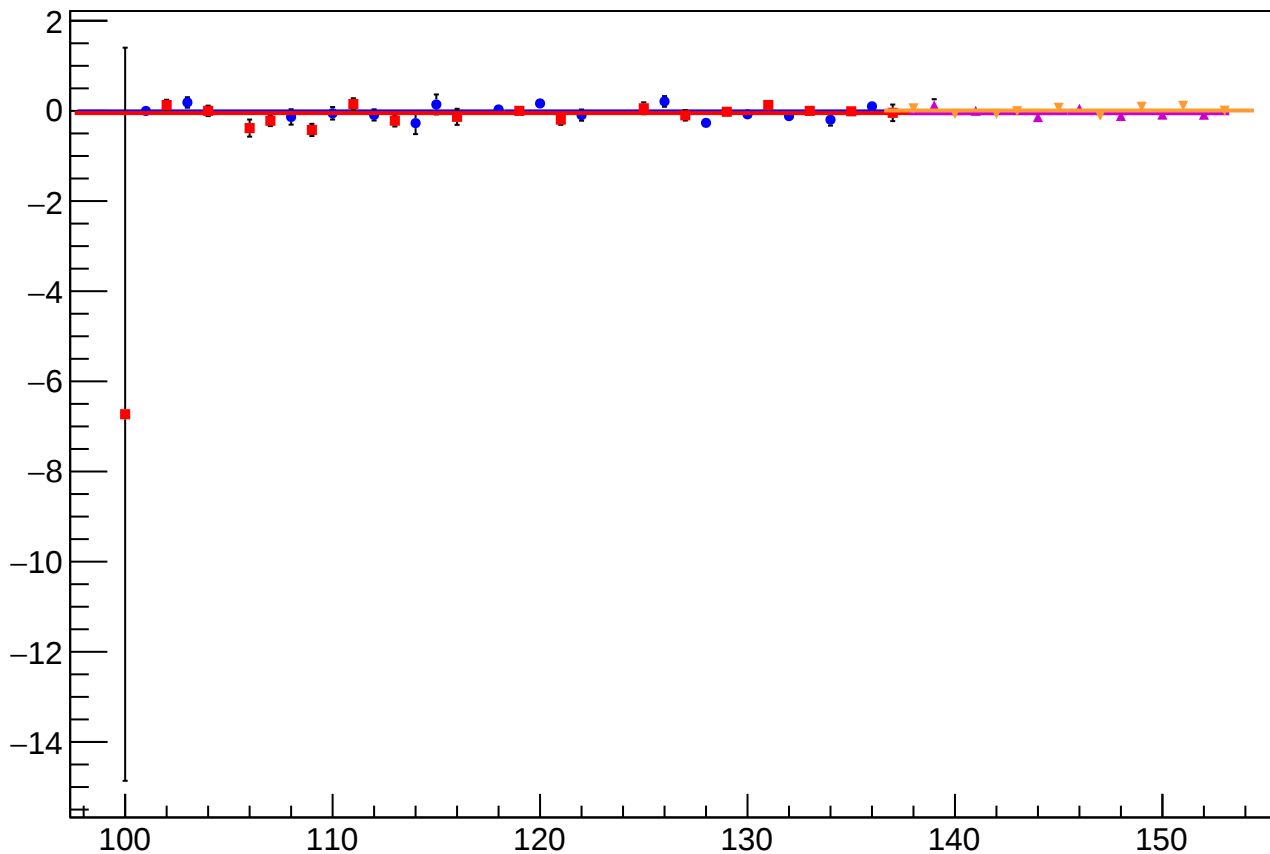
Left In:  $0.002 \pm 0.033$   $\chi^2/\text{NDF}$ : 4.9/6

+ sign  $0.086 \pm 0.025$   $\chi^2/\text{NDF}$ : 53.4/24

All:  $0.078 \pm 0.018$   $\chi^2/\text{NDF}$ : 92.3/49

- sign  $0.068 \pm 0.026$   $\chi^2/\text{NDF}$ : 38.7/24

# 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:  $0.009 \pm 0.026$   $\chi^2/\text{NDF}$ : 10.1/8

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 26.2/17

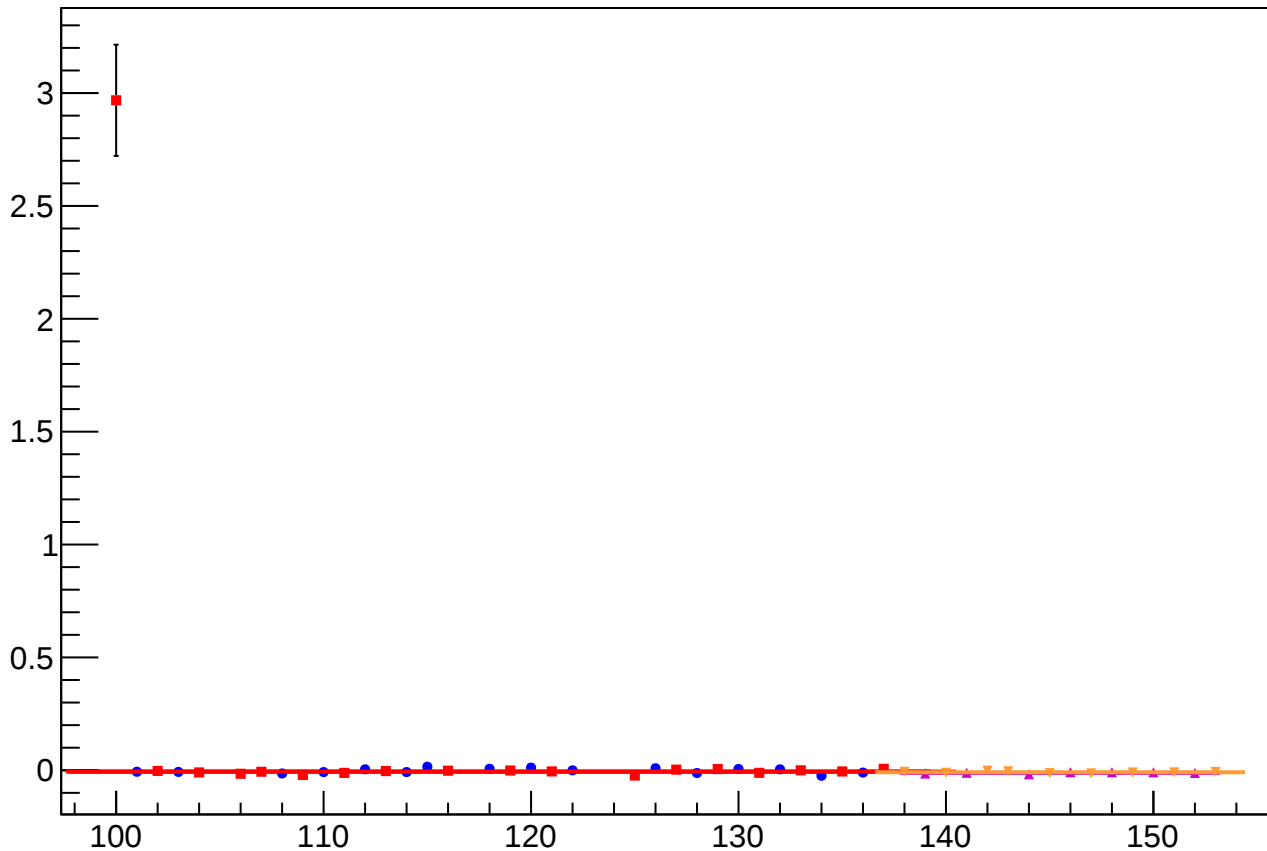
Left In:  $-0.052 \pm 0.028$   $\chi^2/\text{NDF}$ : 7.1/6

+ sign  $-0.001 \pm 0.019$   $\chi^2/\text{NDF}$ : 33.9/24

All:  $-0.024 \pm 0.014$   $\chi^2/\text{NDF}$ : 70.5/49

- sign  $-0.050 \pm 0.020$   $\chi^2/\text{NDF}$ : 33.4/24

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 28.7/15

Left Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 6.1/8

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 165.2/17

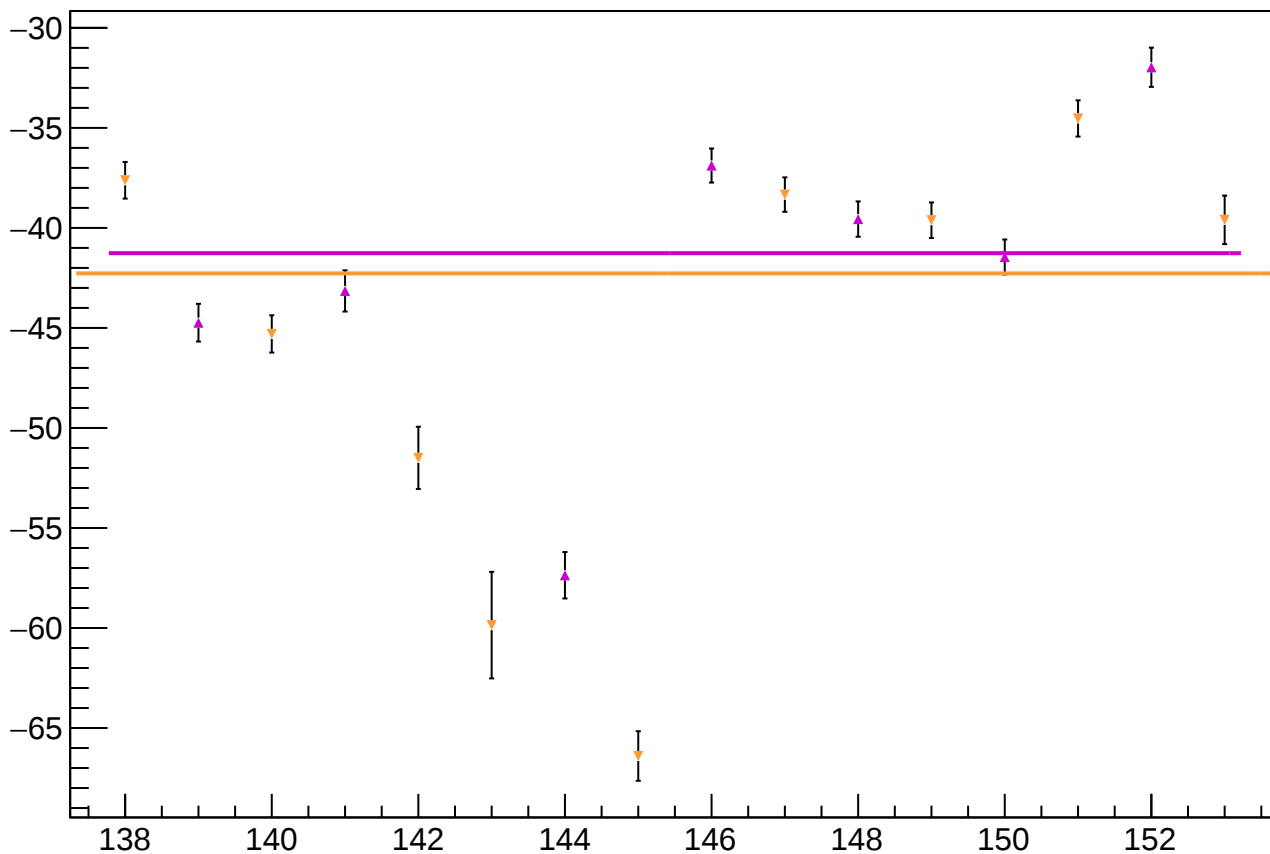
Left In:  $-0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 4.8/6

+ sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 37.1/24

All:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 216.4/49

- sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 178.3/24

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -42.274+/-0.352  $\chi^2/\text{NDF}$ : 601.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

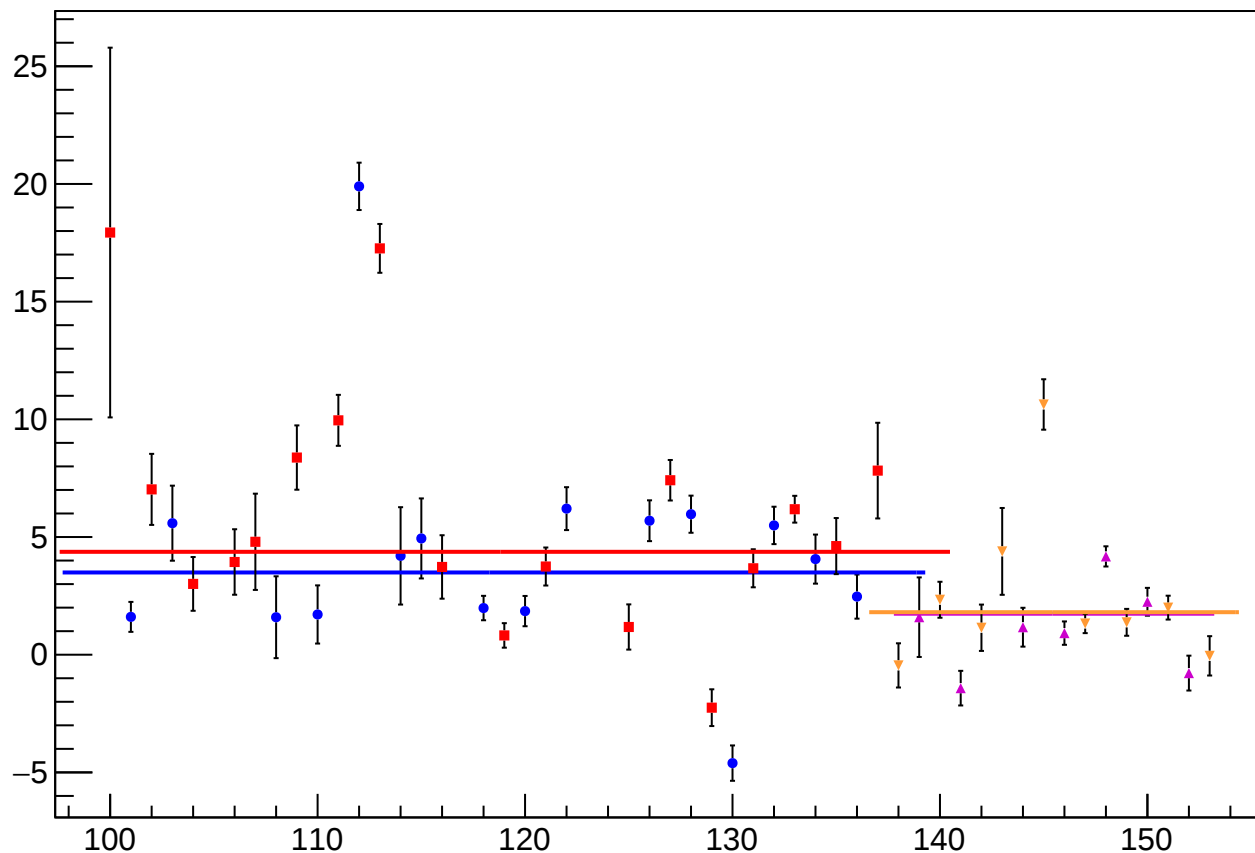
Left In: -41.263+/-0.358  $\chi^2/\text{NDF}$ : 329.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.776+/-0.251  $\chi^2/\text{NDF}$ : 935.4/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.494 \pm 0.218$   $\chi^2/\text{NDF}$ : 444.9/15

Left Out:  $1.807 \pm 0.227$   $\chi^2/\text{NDF}$ : 83.5/8

Right Out:  $4.372 \pm 0.225$   $\chi^2/\text{NDF}$ : 354.0/17

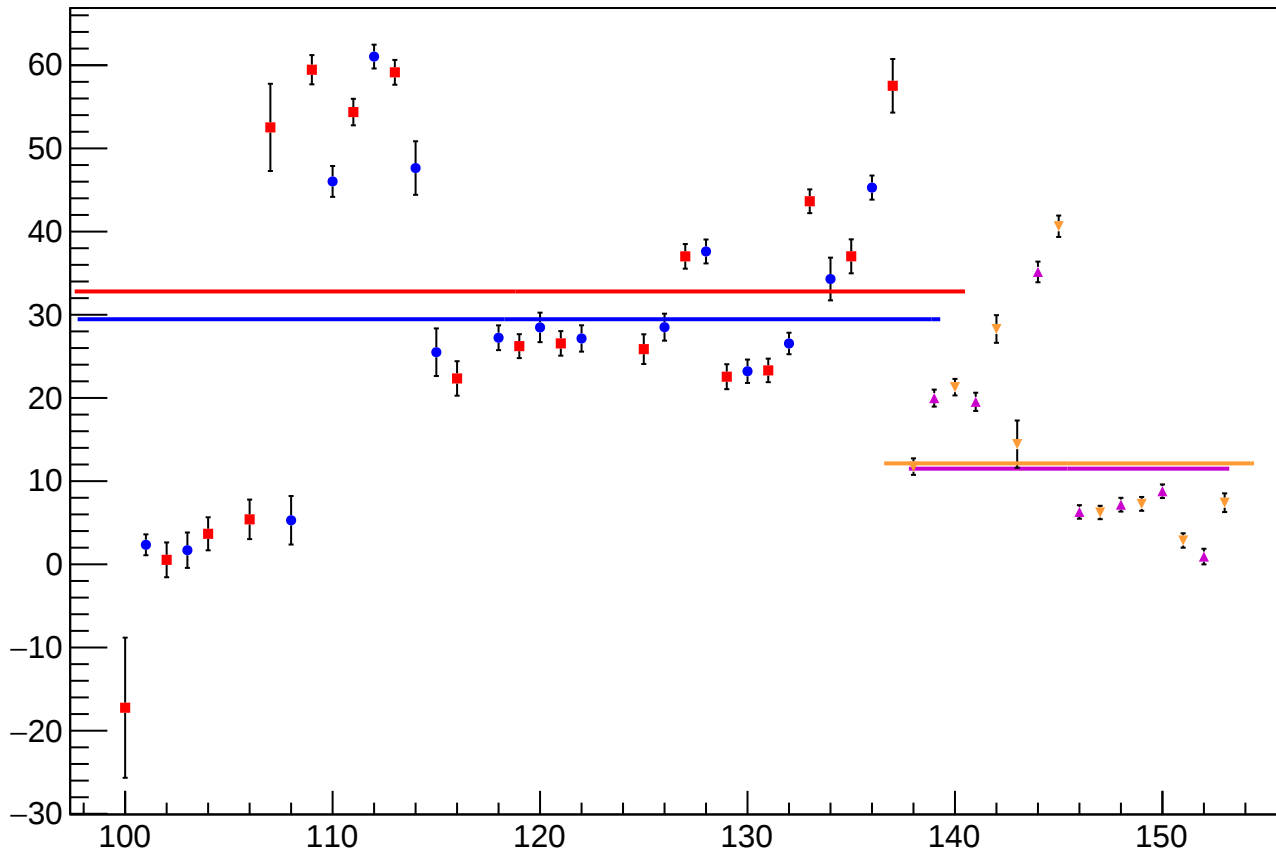
Left In:  $1.742 \pm 0.237$   $\chi^2/\text{NDF}$ : 66.3/6

+ sign  $2.686 \pm 0.157$   $\chi^2/\text{NDF}$ : 557.2/24

All:  $2.896 \pm 0.113$   $\chi^2/\text{NDF}$ : 1045.9/49

- sign  $3.122 \pm 0.163$   $\chi^2/\text{NDF}$ : 485.0/24

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 29.463 $\pm$ 0.418  $\chi^2$ /NDF: 1491.6/15

Left Out: 12.132 $\pm$ 0.349  $\chi^2$ /NDF: 891.8/8

Right Out: 32.804 $\pm$ 0.423  $\chi^2$ /NDF: 1659.8/17

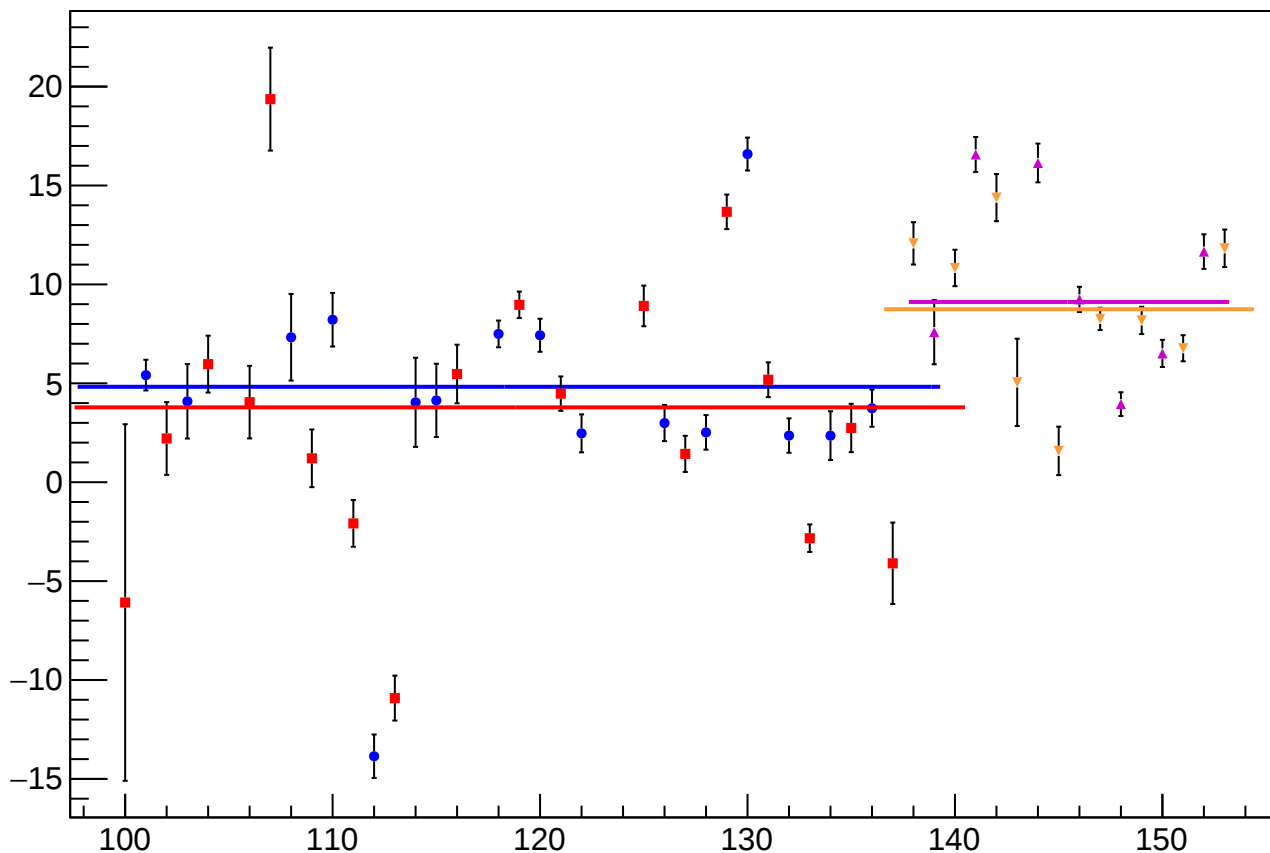
Left In: 11.499 $\pm$ 0.353  $\chi^2$ /NDF: 691.8/6

+ sign 19.250 $\pm$ 0.268  $\chi^2$ /NDF: 3398.7/24

All: 19.738 $\pm$ 0.190  $\chi^2$ /NDF: 7253.5/49

- sign 20.238 $\pm$ 0.271  $\chi^2$ /NDF: 3848.0/24

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}: 552.9/15$

Left Out:  $8.744 \pm 0.285$   $\chi^2/\text{NDF}: 95.1/8$

Right Out:  $3.784 \pm 0.259$   $\chi^2/\text{NDF}: 564.8/17$

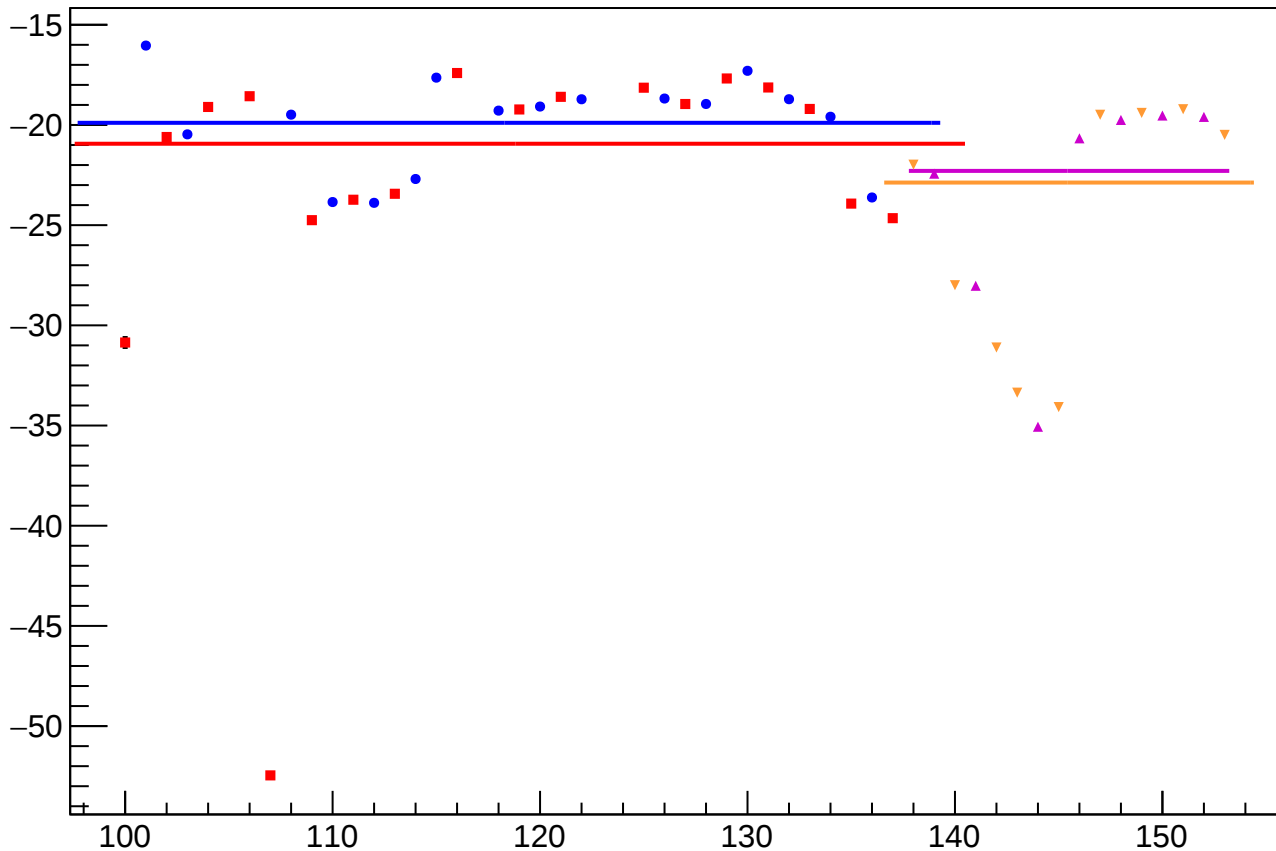
Left In:  $9.113 \pm 0.296$   $\chi^2/\text{NDF}: 220.5/6$

+ sign  $6.540 \pm 0.189$   $\chi^2/\text{NDF}: 754.3/24$

All:  $6.322 \pm 0.136$   $\chi^2/\text{NDF}: 1725.8/49$

- sign  $6.091 \pm 0.195$   $\chi^2/\text{NDF}: 968.8/24$

# 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:  $-22.874 \pm 0.015$   $\chi^2/\text{NDF}: 116810.7/8$

Right Out:  $-20.936 \pm 0.016$   $\chi^2/\text{NDF}: 94127.3/17$

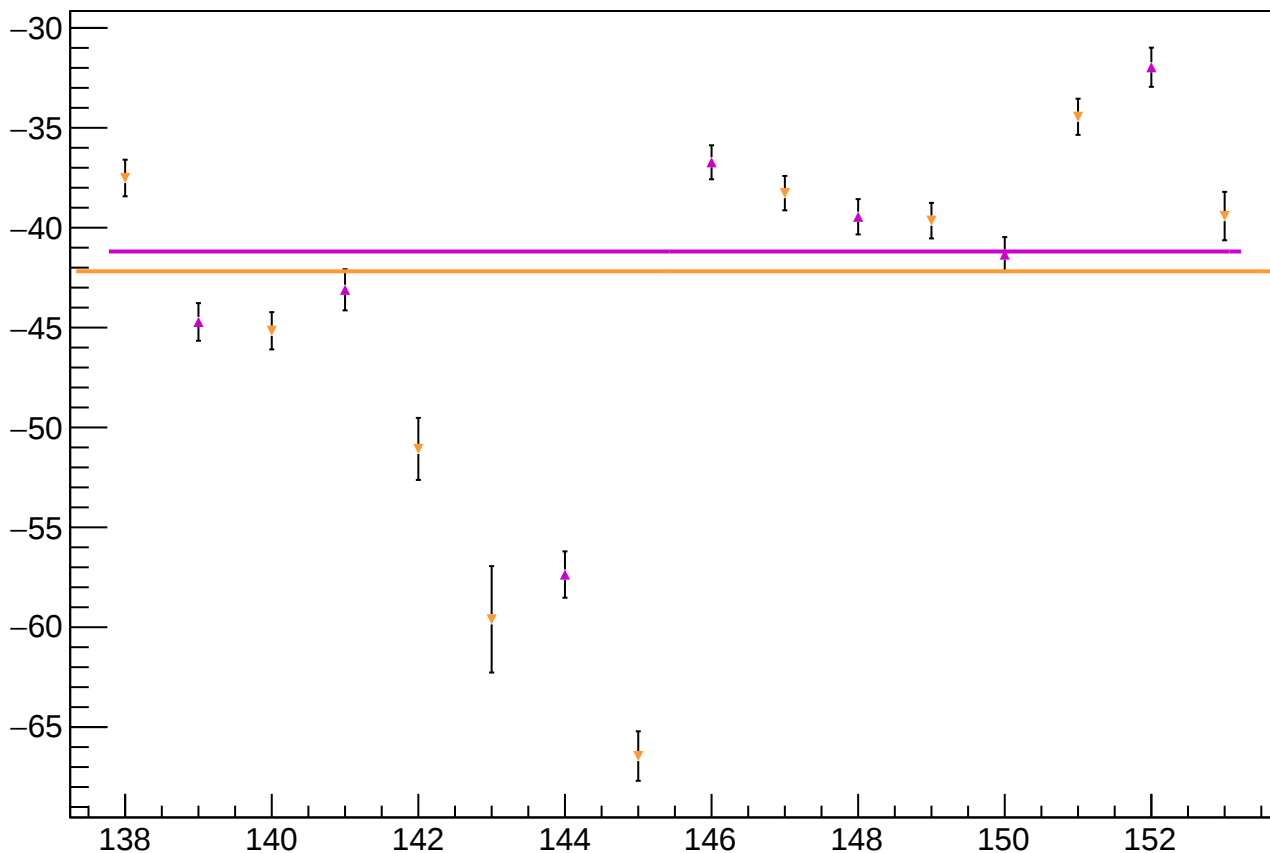
Left In:  $-22.292 \pm 0.015$   $\chi^2/\text{NDF}: 90151.4/6$

+ sign  $-21.477 \pm 0.011$   $\chi^2/\text{NDF}: 162346.2/24$

All:  $-21.568 \pm 0.008$   $\chi^2/\text{NDF}: 350752.4/49$

- sign  $-21.661 \pm 0.011$   $\chi^2/\text{NDF}: 188257.3/24$

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -42.183+/-0.352  $\chi^2/\text{NDF}$ : 602.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

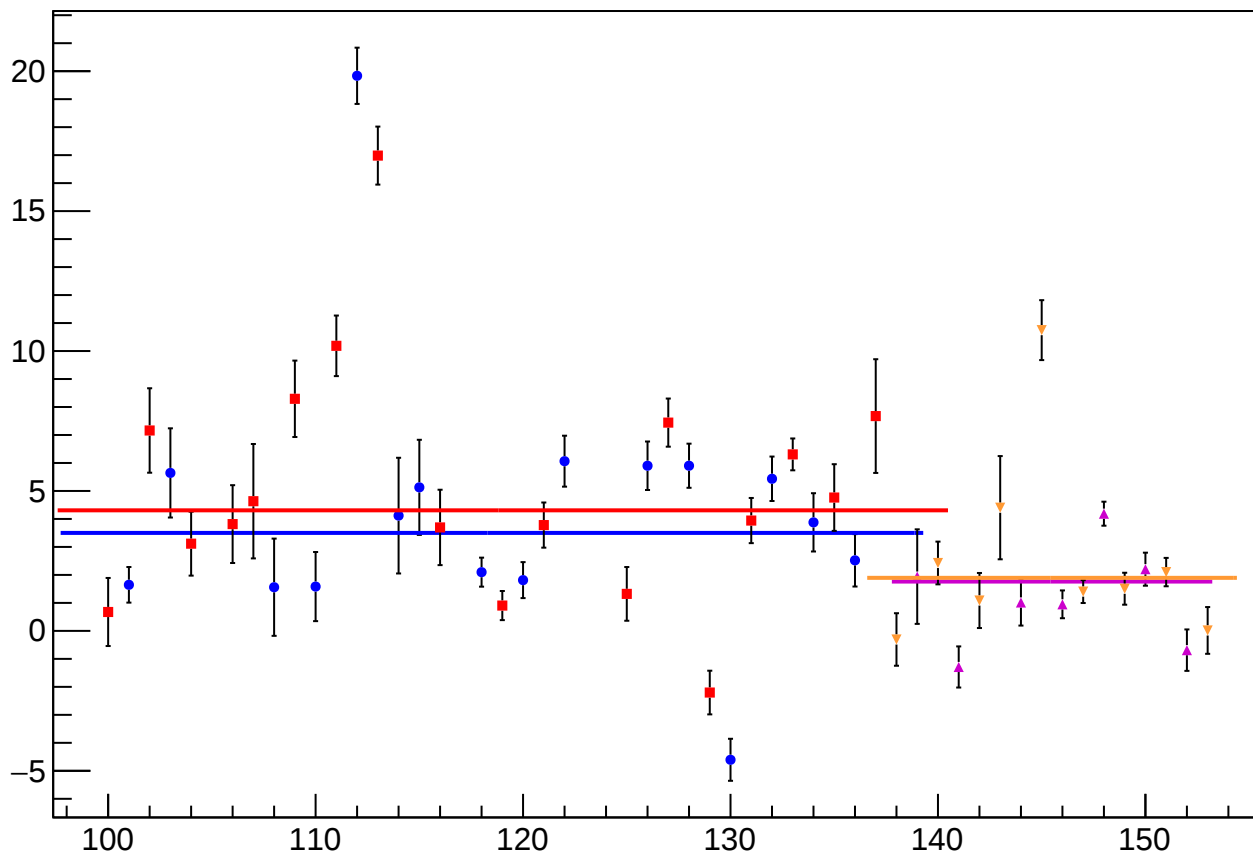
Left In: -41.191+/-0.357  $\chi^2/\text{NDF}$ : 332.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.695+/-0.251  $\chi^2/\text{NDF}$ : 938.5/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.501 \pm 0.218$   $\chi^2/\text{NDF}$ : 441.9/15

Left Out:  $1.896 \pm 0.227$   $\chi^2/\text{NDF}$ : 84.0/8

Right Out:  $4.308 \pm 0.221$   $\chi^2/\text{NDF}$ : 352.8/17

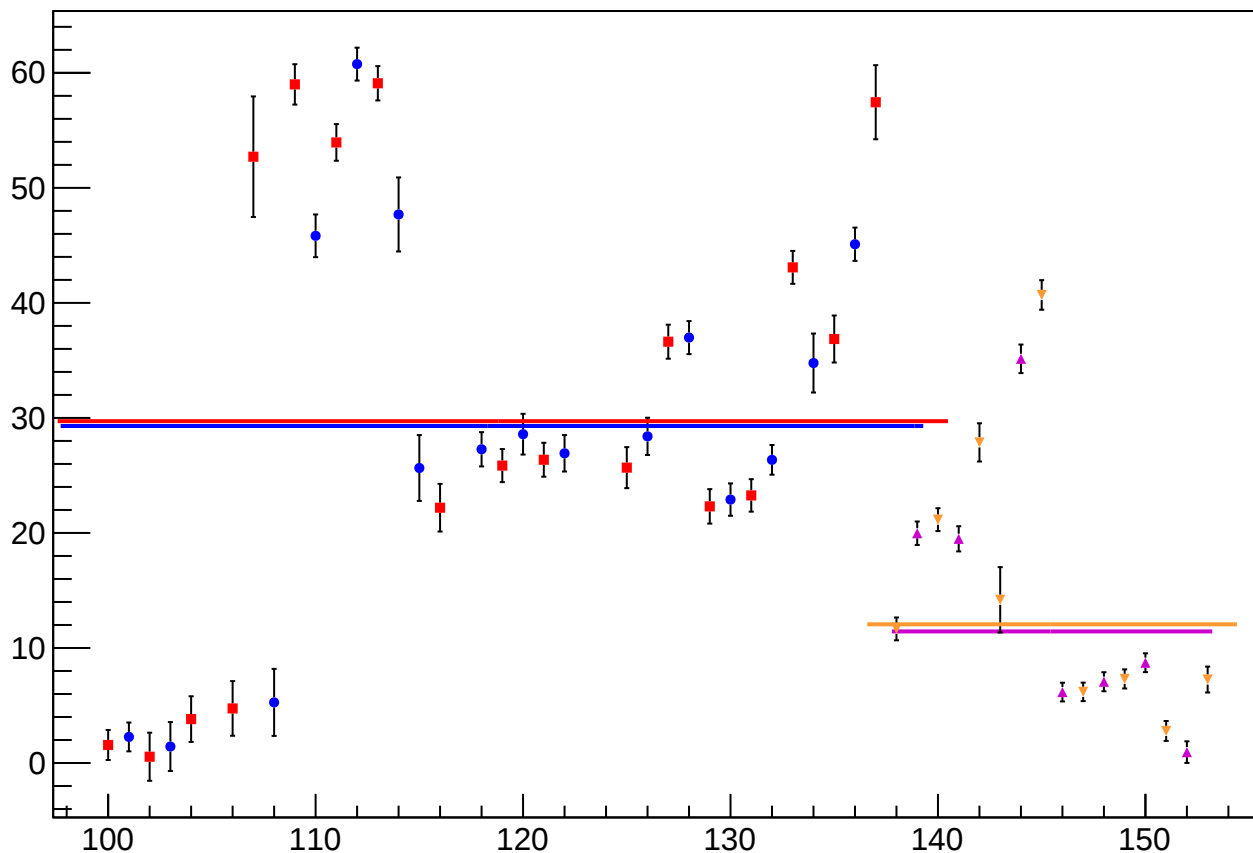
Left In:  $1.763 \pm 0.237$   $\chi^2/\text{NDF}$ : 64.3/6

+ sign  $2.732 \pm 0.157$   $\chi^2/\text{NDF}$ : 552.0/24

All:  $2.920 \pm 0.113$   $\chi^2/\text{NDF}$ : 1033.7/49

- sign  $3.120 \pm 0.162$   $\chi^2/\text{NDF}$ : 478.7/24

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.297 $\pm$ 0.417  $\chi^2$ /NDF: 1485.2/15

Left Out: 12.058 $\pm$ 0.348  $\chi^2$ /NDF: 890.6/8

Right Out: 29.719 $\pm$ 0.403  $\chi^2$ /NDF: 2128.9/17

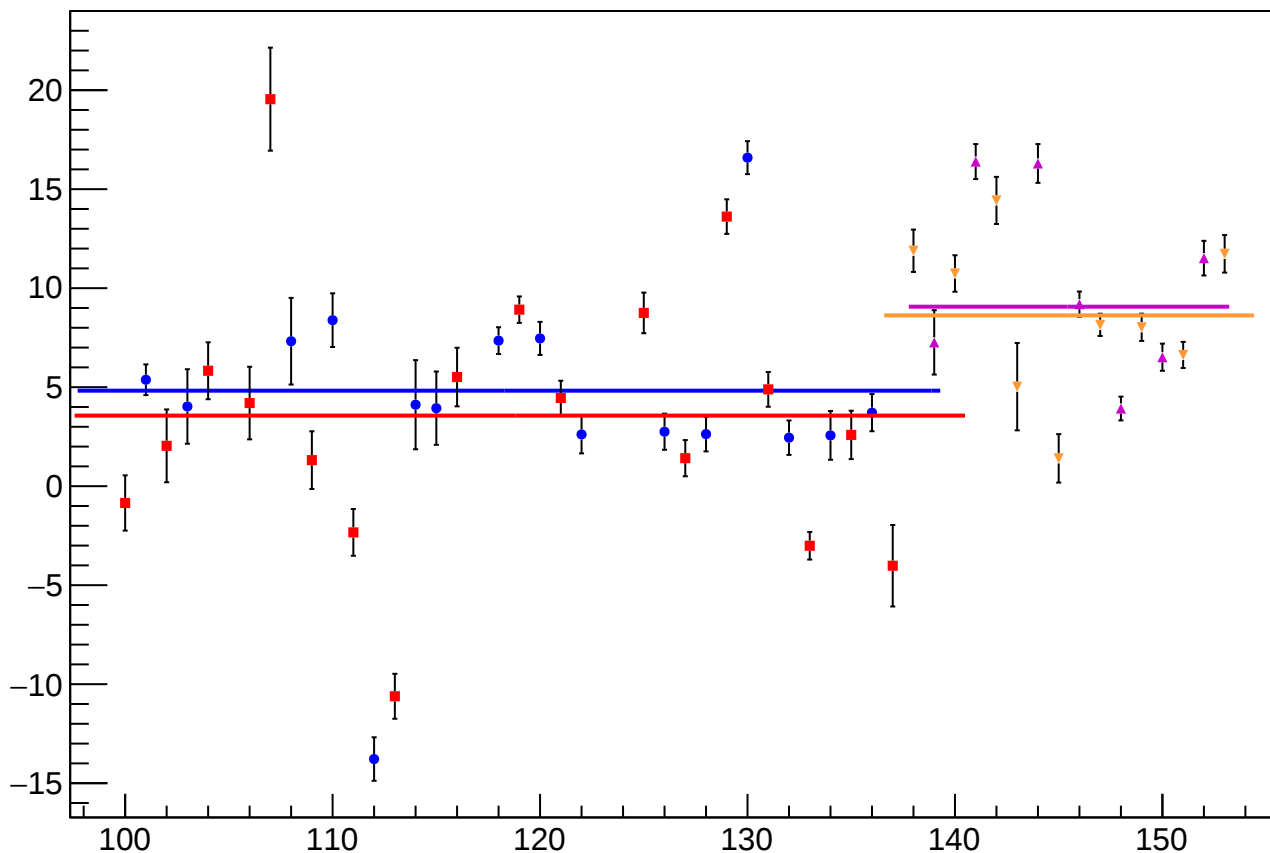
Left In: 11.438 $\pm$ 0.353  $\chi^2$ /NDF: 695.3/6

+ sign 19.139 $\pm$ 0.267  $\chi^2$ /NDF: 3381.7/24

All: 19.256 $\pm$ 0.188  $\chi^2$ /NDF: 7373.5/49

- sign 19.372 $\pm$ 0.265  $\chi^2$ /NDF: 3991.4/24

# 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:  $8.625 \pm 0.285$   $\chi^2/\text{NDF}$ : 97.3/8

Right Out:  $3.564 \pm 0.254$   $\chi^2/\text{NDF}$ : 570.2/17

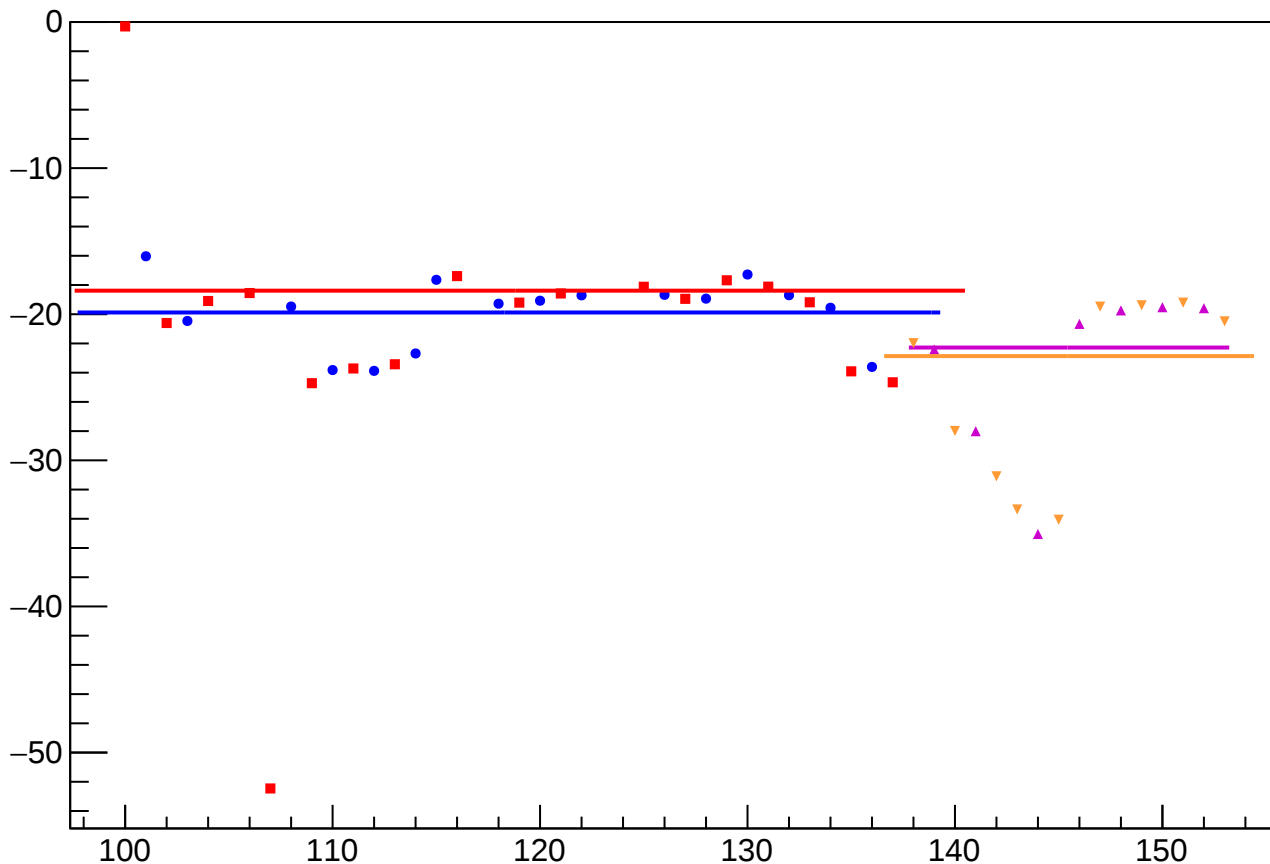
Left In:  $9.065 \pm 0.296$   $\chi^2/\text{NDF}$ : 220.1/6

+ sign  $6.487 \pm 0.189$   $\chi^2/\text{NDF}$ : 746.4/24

All:  $6.201 \pm 0.135$   $\chi^2/\text{NDF}$ : 1740.0/49

- sign  $5.900 \pm 0.193$   $\chi^2/\text{NDF}$ : 988.8/24

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.880 \pm 0.016$   $\chi^2/\text{NDF}: 26082.0/15$

Left Out:  $-22.866 \pm 0.015$   $\chi^2/\text{NDF}: 116890.3/8$

Right Out:  $-18.387 \pm 0.015$   $\chi^2/\text{NDF}: 301256.3/17$

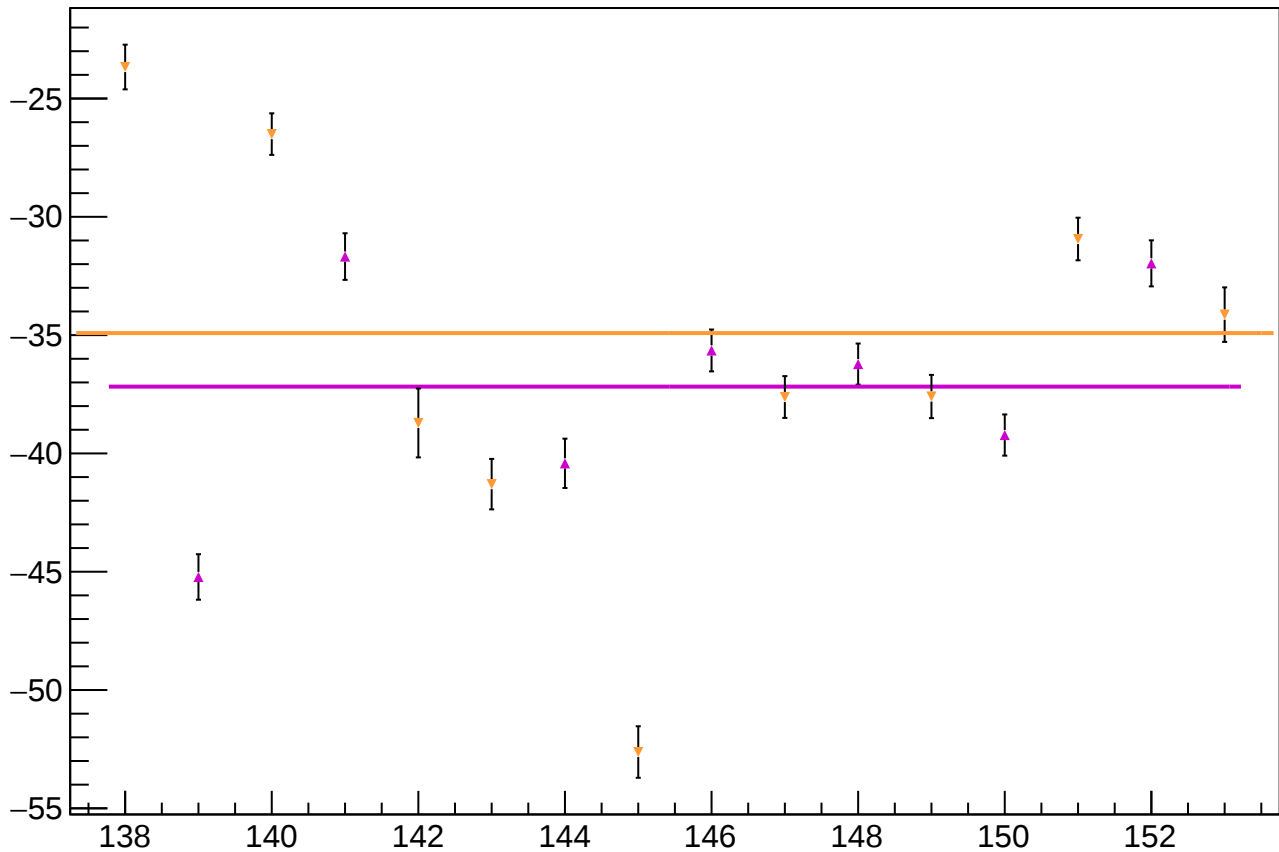
Left In:  $-22.280 \pm 0.015$   $\chi^2/\text{NDF}: 90105.3/6$

+ sign  $-21.467 \pm 0.011$   $\chi^2/\text{NDF}: 162489.7/24$

All:  $-20.892 \pm 0.007$   $\chi^2/\text{NDF}: 594606.6/49$

- sign  $-20.346 \pm 0.010$   $\chi^2/\text{NDF}: 426451.5/24$

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.914+/-0.332  $\chi^2/\text{NDF}$ : 578.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

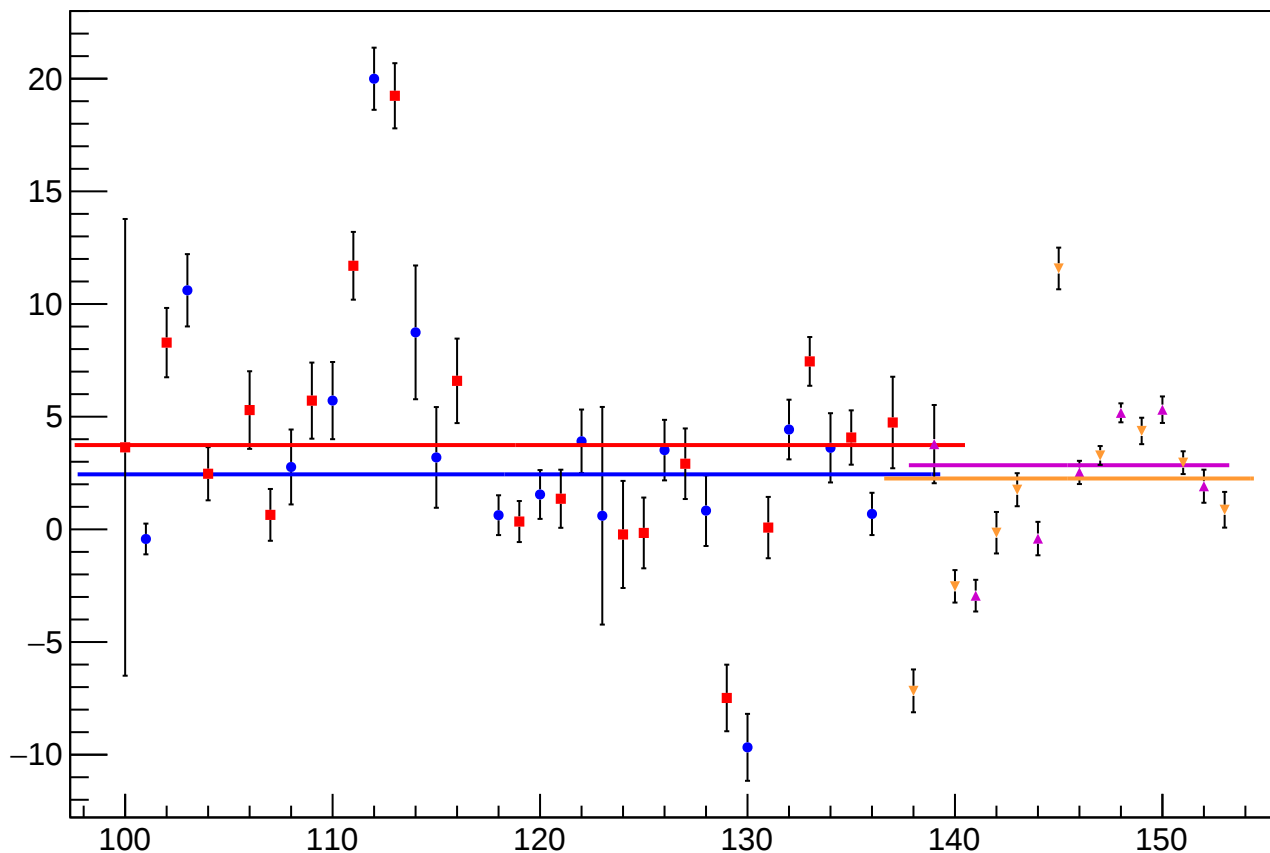
Left In: -37.177+/-0.353  $\chi^2/\text{NDF}$ : 149.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -35.974+/-0.242  $\chi^2/\text{NDF}$ : 749.3/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.441 \pm 0.311$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $2.257 \pm 0.216$   $\chi^2/\text{NDF}$ : 275.3/8

Right Out:  $3.740 \pm 0.326$   $\chi^2/\text{NDF}$ : 268.1/18

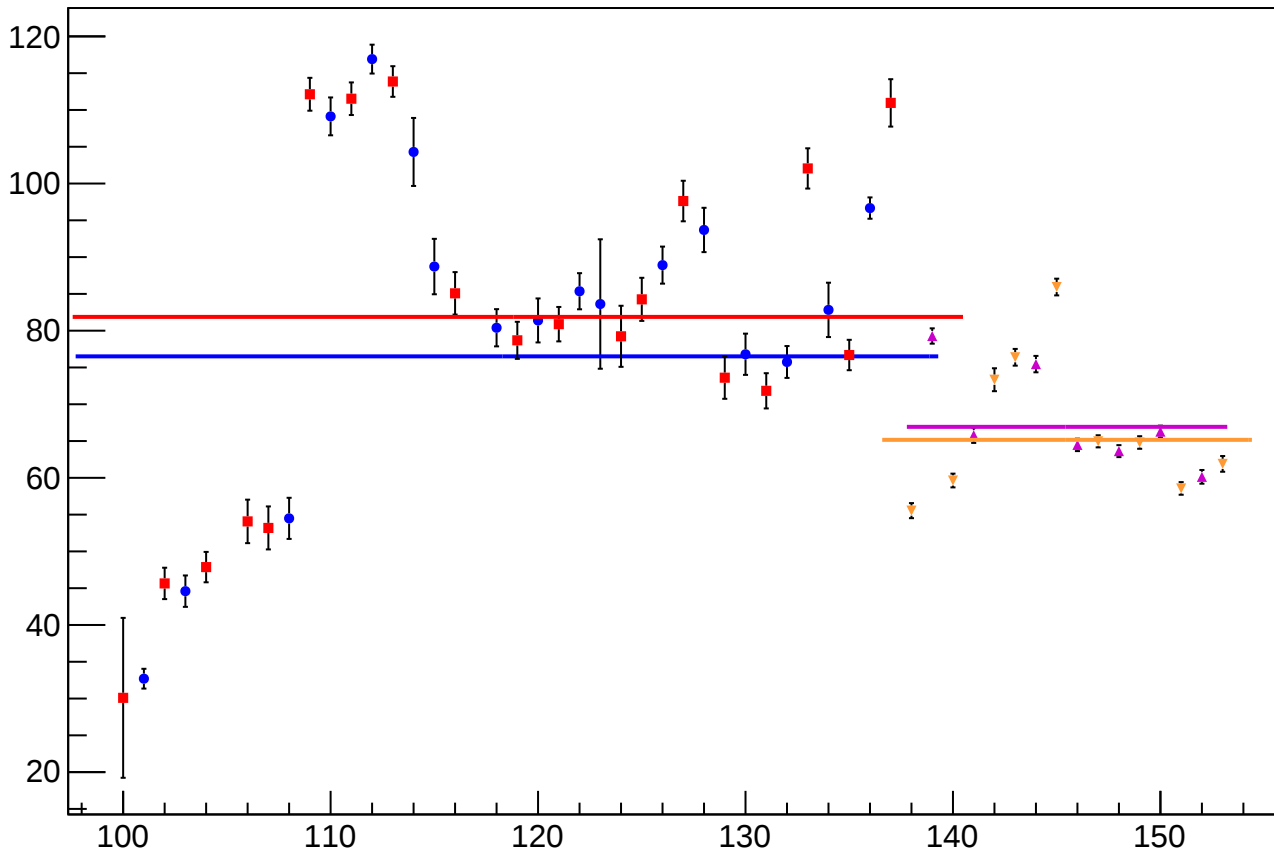
Left In:  $2.846 \pm 0.234$   $\chi^2/\text{NDF}$ : 137.3/6

+ sign  $2.317 \pm 0.178$   $\chi^2/\text{NDF}$ : 570.3/25

All:  $2.705 \pm 0.130$   $\chi^2/\text{NDF}$ : 990.9/51

- sign  $3.149 \pm 0.190$   $\chi^2/\text{NDF}$ : 410.4/25

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 65.164 $\pm$ 0.331  $\chi^2$ /NDF: 650.2/8

Right Out: 81.875 $\pm$ 0.592  $\chi^2$ /NDF: 1570.7/18

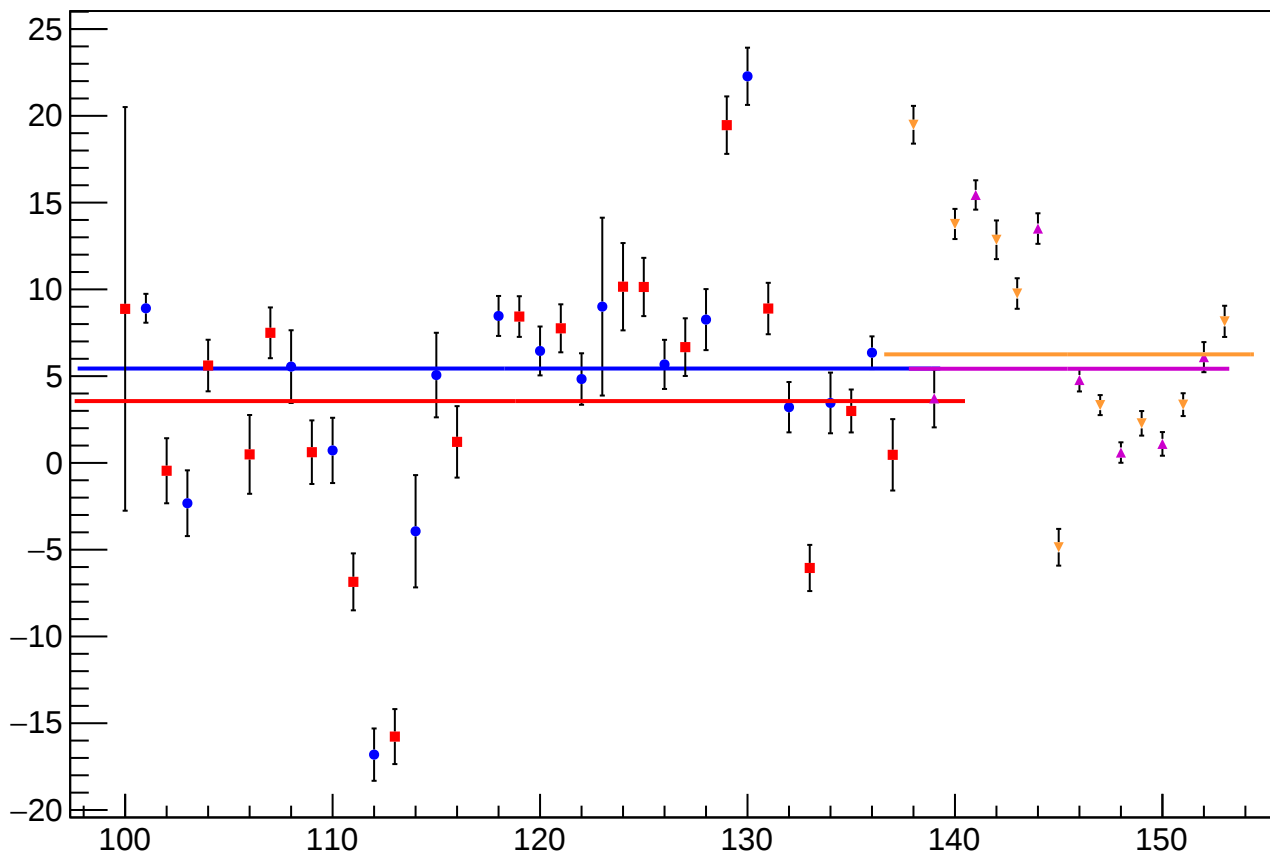
Left In: 66.930 $\pm$ 0.349  $\chi^2$ /NDF: 278.9/6

+ sign 67.995 $\pm$ 0.287  $\chi^2$ /NDF: 3194.1/25

All: 69.326 $\pm$ 0.208  $\chi^2$ /NDF: 5562.2/51

- sign 70.790 $\pm$ 0.301  $\chi^2$ /NDF: 2322.8/25

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 5.439 $\pm$ 0.358  $\chi^2$ /NDF: 386.2/16

Left Out: 6.256 $\pm$ 0.270  $\chi^2$ /NDF: 464.9/8

Right Out: 3.563 $\pm$ 0.375  $\chi^2$ /NDF: 420.8/18

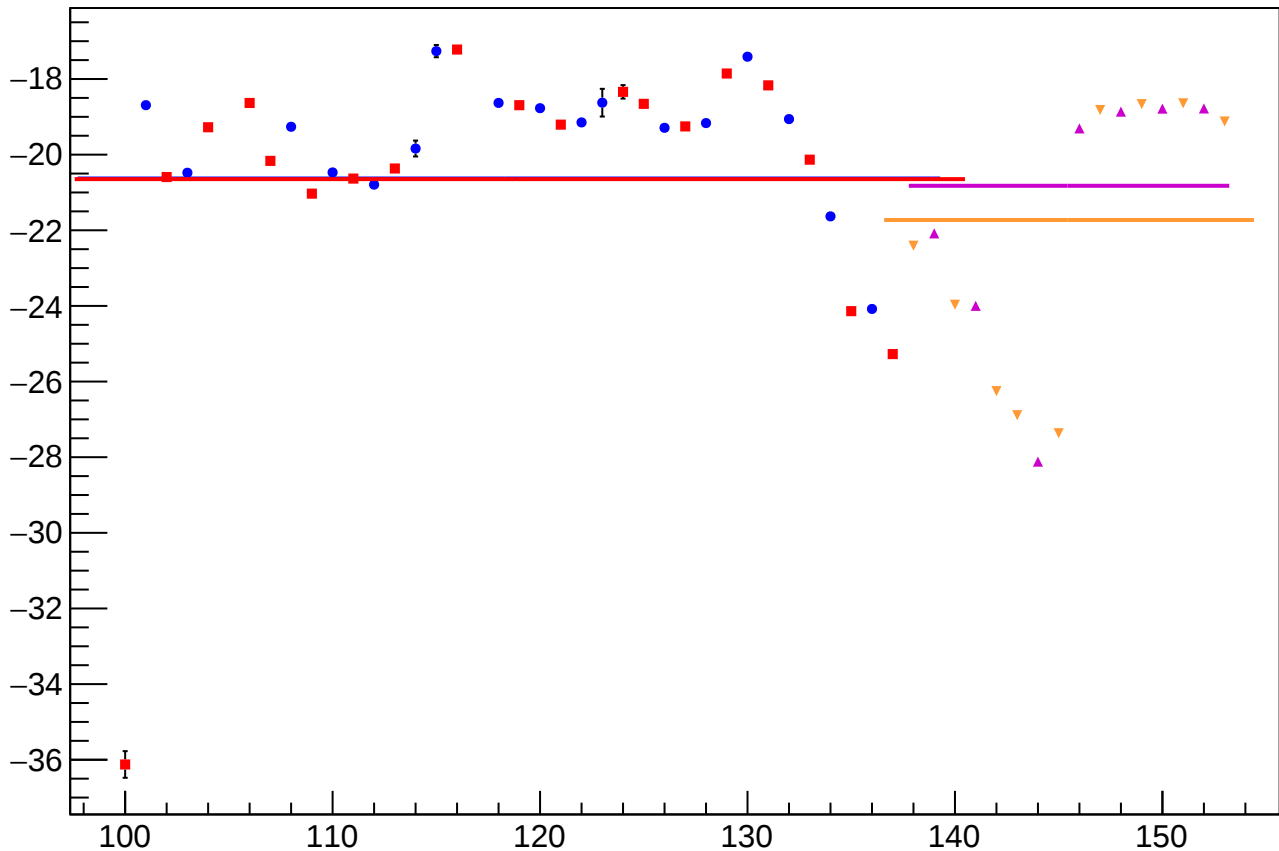
Left In: 5.426 $\pm$ 0.292  $\chi^2$ /NDF: 334.5/6

+ sign 5.959 $\pm$ 0.216  $\chi^2$ /NDF: 854.4/25

All: 5.382 $\pm$ 0.157  $\chi^2$ /NDF: 1640.4/51

- sign 4.722 $\pm$ 0.231  $\chi^2$ /NDF: 770.6/25

# 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:  $-21.728 \pm 0.014$   $\chi^2/\text{NDF}$ : 60904.9/8

Right Out:  $-20.647 \pm 0.019$   $\chi^2/\text{NDF}$ : 13908.9/18

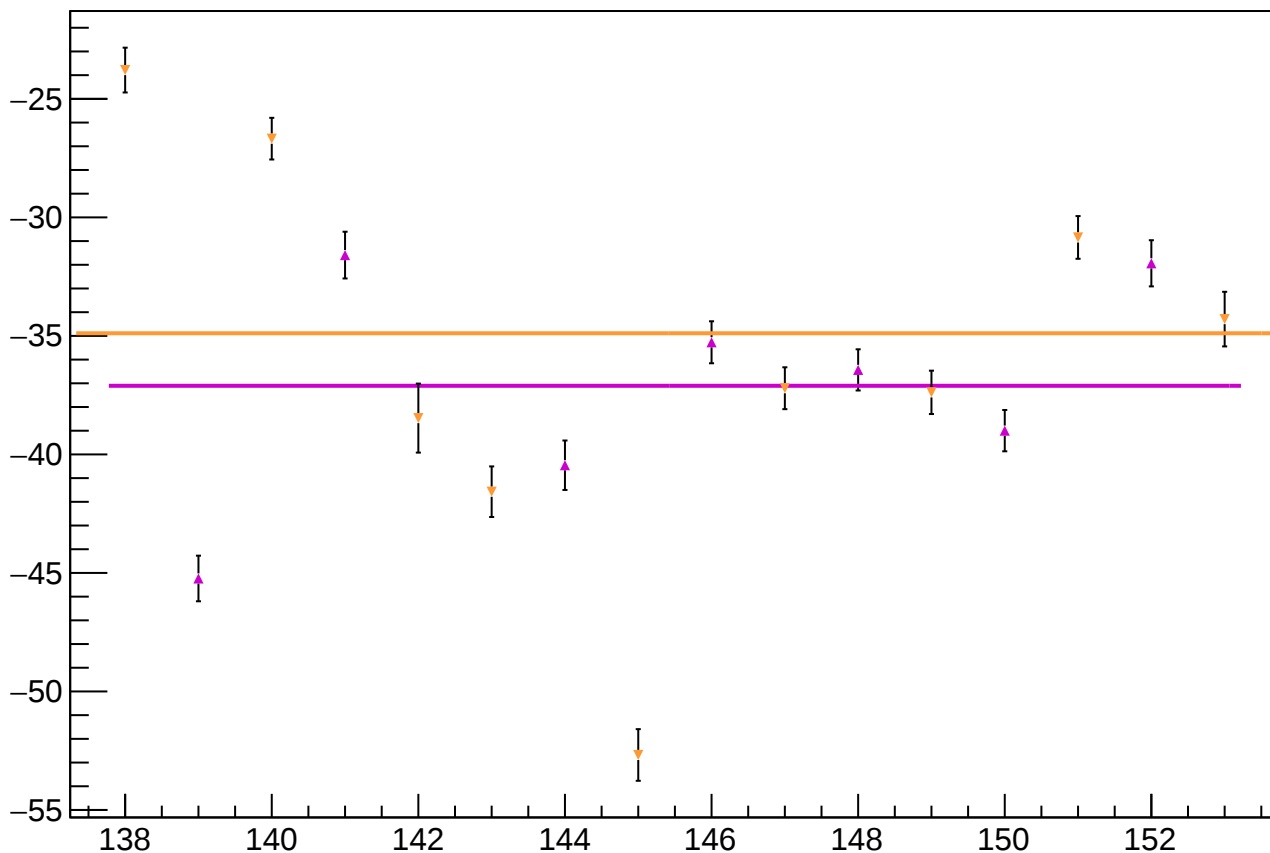
Left In:  $-20.823 \pm 0.015$   $\chi^2/\text{NDF}$ : 40279.4/6

+ sign  $-21.356 \pm 0.011$   $\chi^2/\text{NDF}$ : 75539.5/25

All:  $-21.068 \pm 0.008$   $\chi^2/\text{NDF}$ : 131137.0/51

- sign  $-20.760 \pm 0.012$   $\chi^2/\text{NDF}$ : 54241.0/25

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -34.889 $\pm$ 0.332  $\chi^2$ /NDF: 571.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

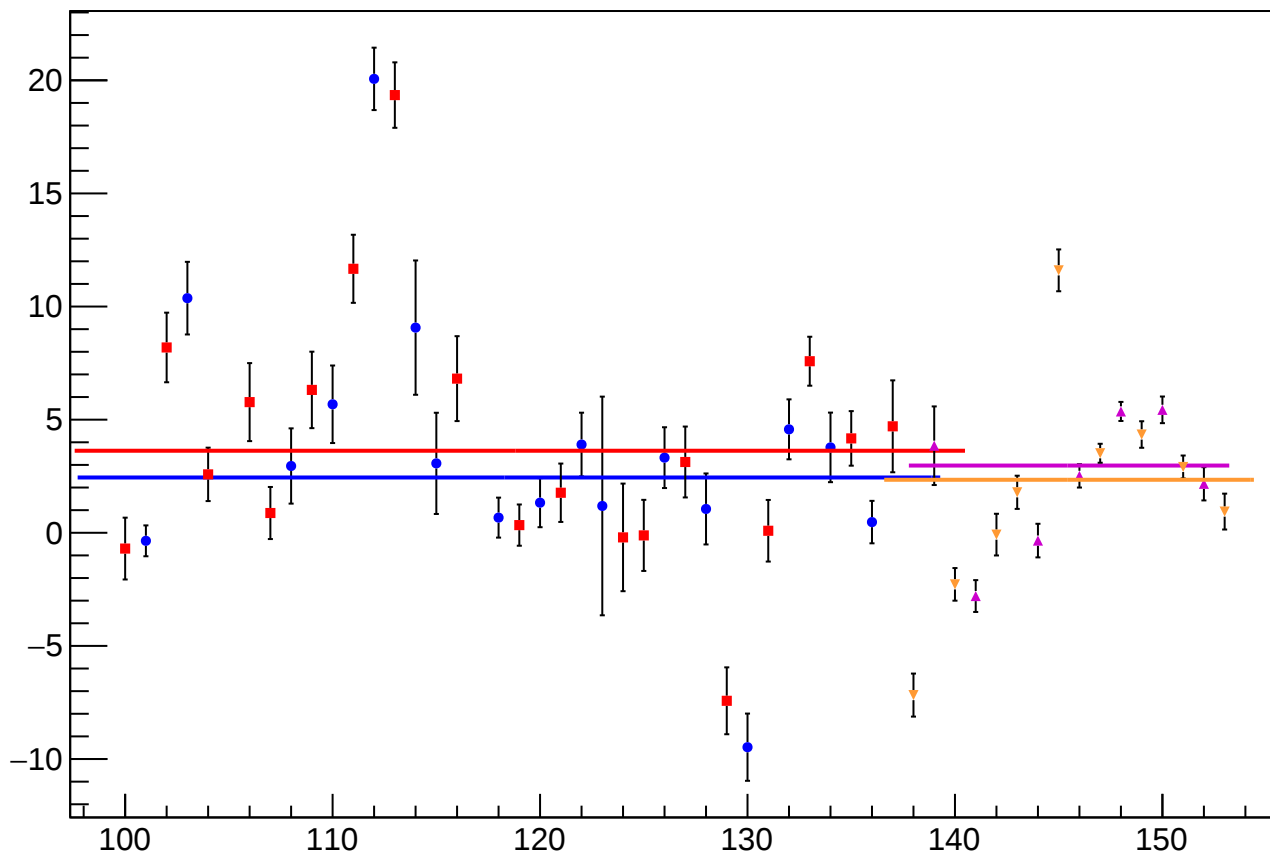
Left In: -37.105 $\pm$ 0.354  $\chi^2$ /NDF: 150.7/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.927 $\pm$ 0.242  $\chi^2$ /NDF: 743.4/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $2.343 \pm 0.216$   $\chi^2/\text{NDF}$ : 272.8/8

Right Out:  $3.626 \pm 0.318$   $\chi^2/\text{NDF}$ : 278.9/18

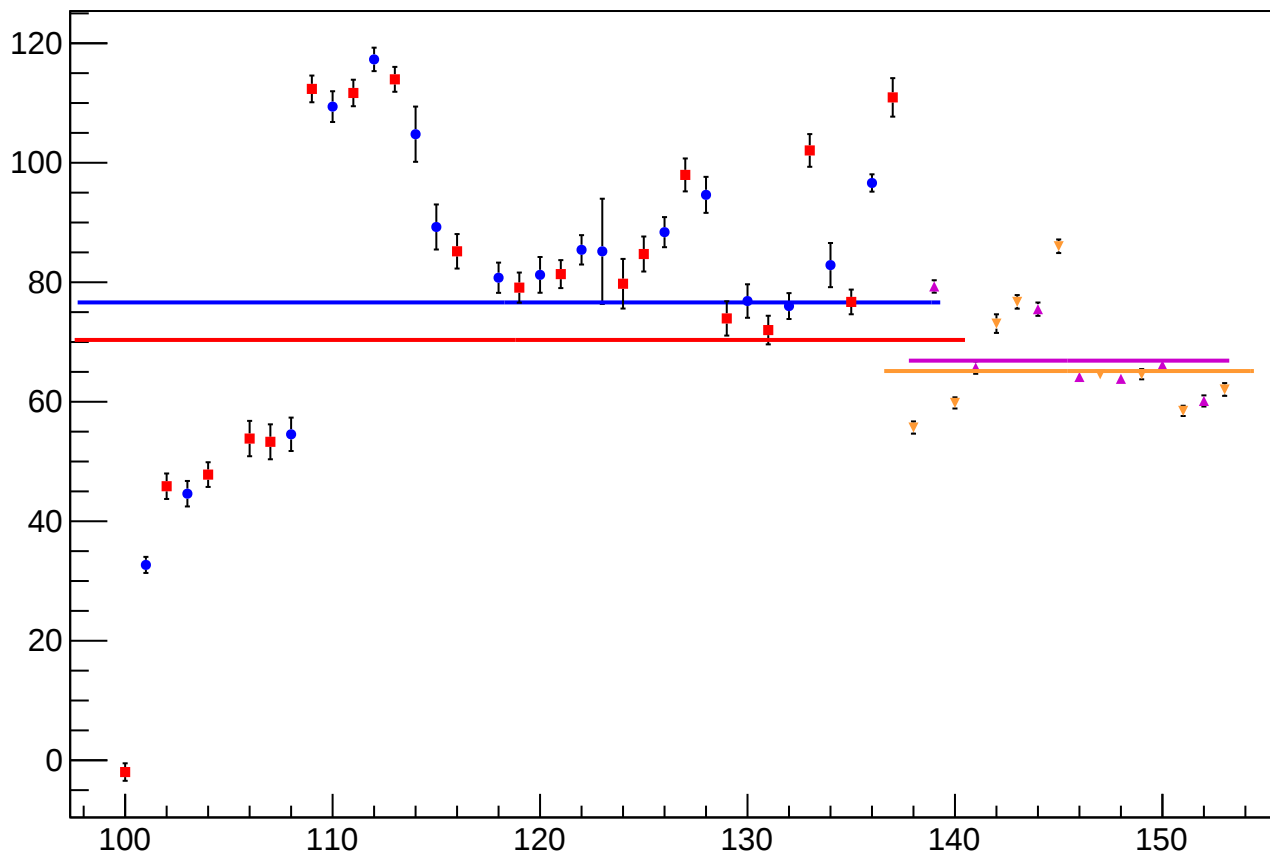
Left In:  $2.972 \pm 0.234$   $\chi^2/\text{NDF}$ : 139.1/6

+ sign  $2.376 \pm 0.178$   $\chi^2/\text{NDF}$ : 565.6/25

All:  $2.765 \pm 0.129$   $\chi^2/\text{NDF}$ : 996.4/51

- sign  $3.202 \pm 0.188$   $\chi^2/\text{NDF}$ : 420.7/25

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 76.626 $\pm$ 0.574  $\chi^2$ /NDF: 2262.8/16

Left Out: 65.143 $\pm$ 0.331  $\chi^2$ /NDF: 653.1/8

Right Out: 70.347 $\pm$ 0.550  $\chi^2$ /NDF: 4388.1/18

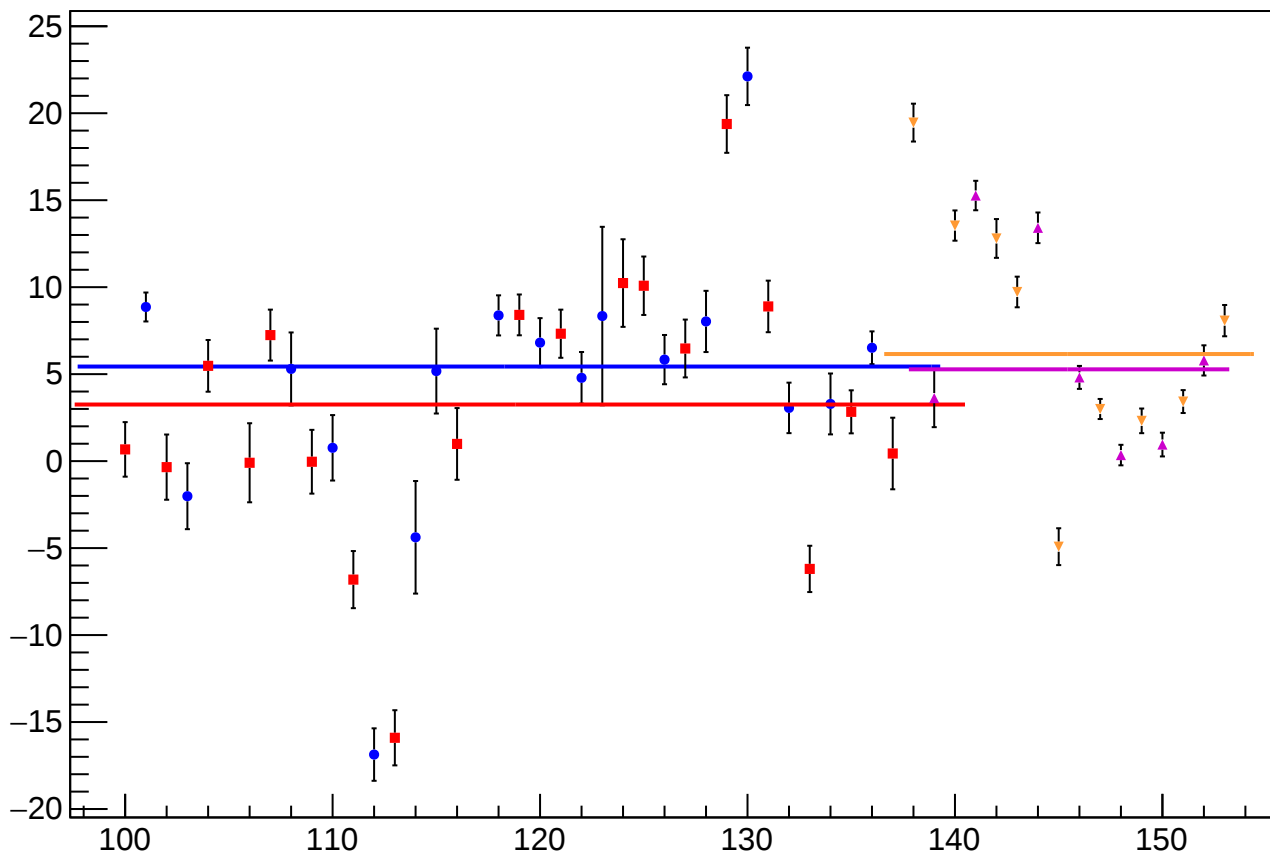
Left In: 66.882 $\pm$ 0.349  $\chi^2$ /NDF: 280.5/6

+ sign 68.008 $\pm$ 0.287  $\chi^2$ /NDF: 3215.8/25

All: 67.946 $\pm$ 0.206  $\chi^2$ /NDF: 7912.8/51

- sign 67.879 $\pm$ 0.295  $\chi^2$ /NDF: 4696.9/25

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $5.437 \pm 0.358$   $\chi^2/\text{NDF}: 384.5/16$

Left Out:  $6.156 \pm 0.270$   $\chi^2/\text{NDF}: 463.9/8$

Right Out:  $3.253 \pm 0.365$   $\chi^2/\text{NDF}: 423.7/18$

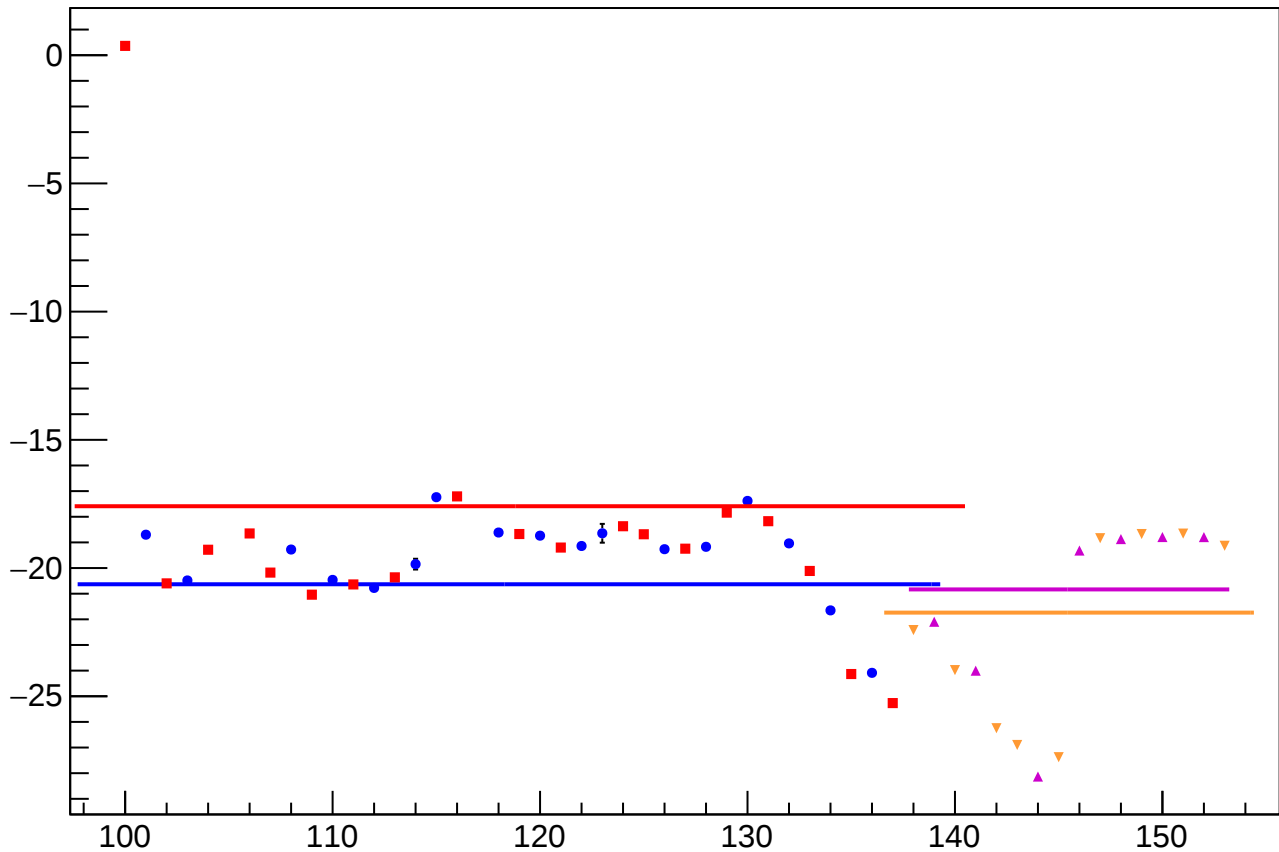
Left In:  $5.276 \pm 0.293$   $\chi^2/\text{NDF}: 336.5/6$

+ sign  $5.895 \pm 0.216$   $\chi^2/\text{NDF}: 850.9/25$

All:  $5.230 \pm 0.157$   $\chi^2/\text{NDF}: 1650.0/51$

- sign  $4.485 \pm 0.228$   $\chi^2/\text{NDF}: 779.0/25$

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -20.632±/0.019  $\chi^2/\text{NDF}$ : 12543.2/16

Left Out: -21.738±/0.014  $\chi^2/\text{NDF}$ : 60773.8/8

Right Out: -17.589±/0.018  $\chi^2/\text{NDF}$ : 178672.3/18

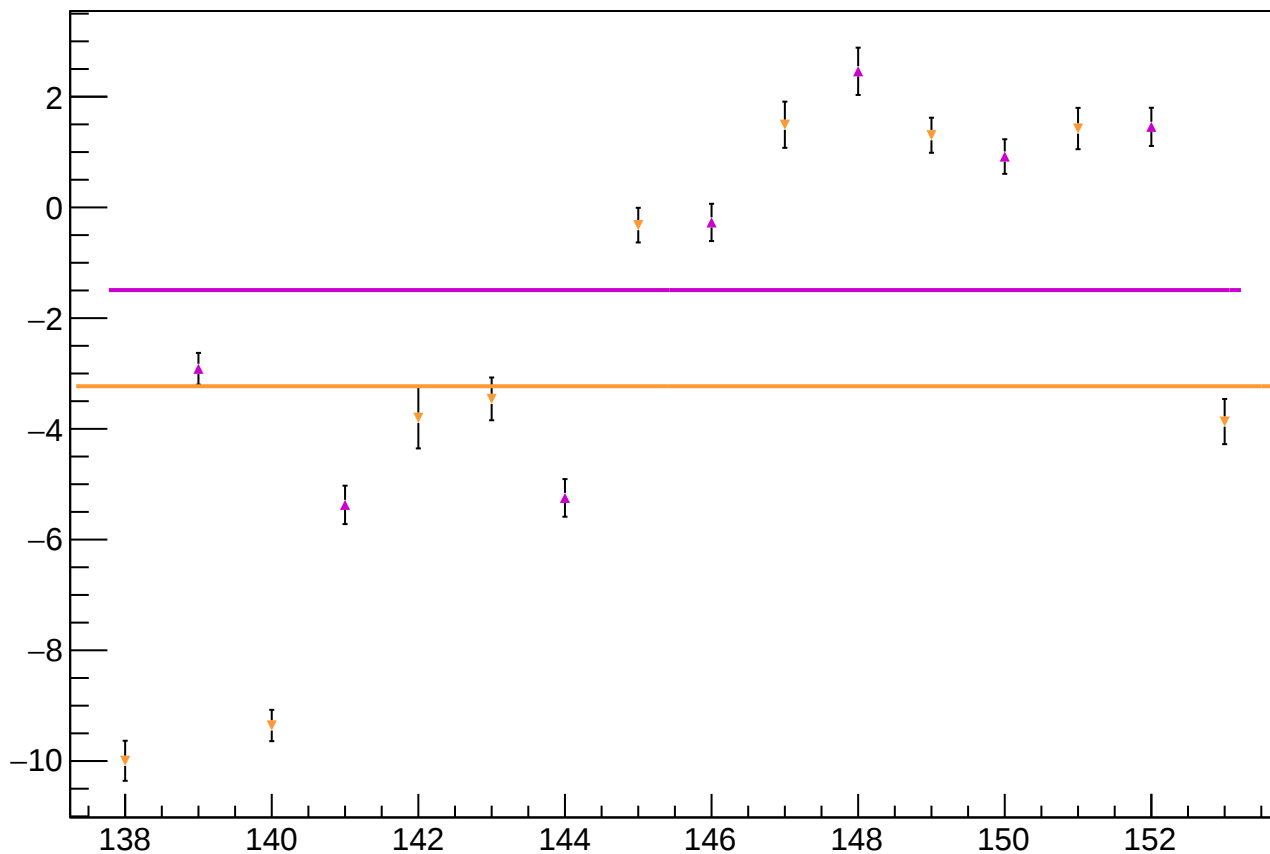
Left In: -20.833±/0.015  $\chi^2/\text{NDF}$ : 40234.1/6

+ sign -21.363±/0.011  $\chi^2/\text{NDF}$ : 75484.4/25

All: -20.464±/0.008  $\chi^2/\text{NDF}$ : 326901.7/51

- sign -19.555±/0.011  $\chi^2/\text{NDF}$ : 238561.9/25

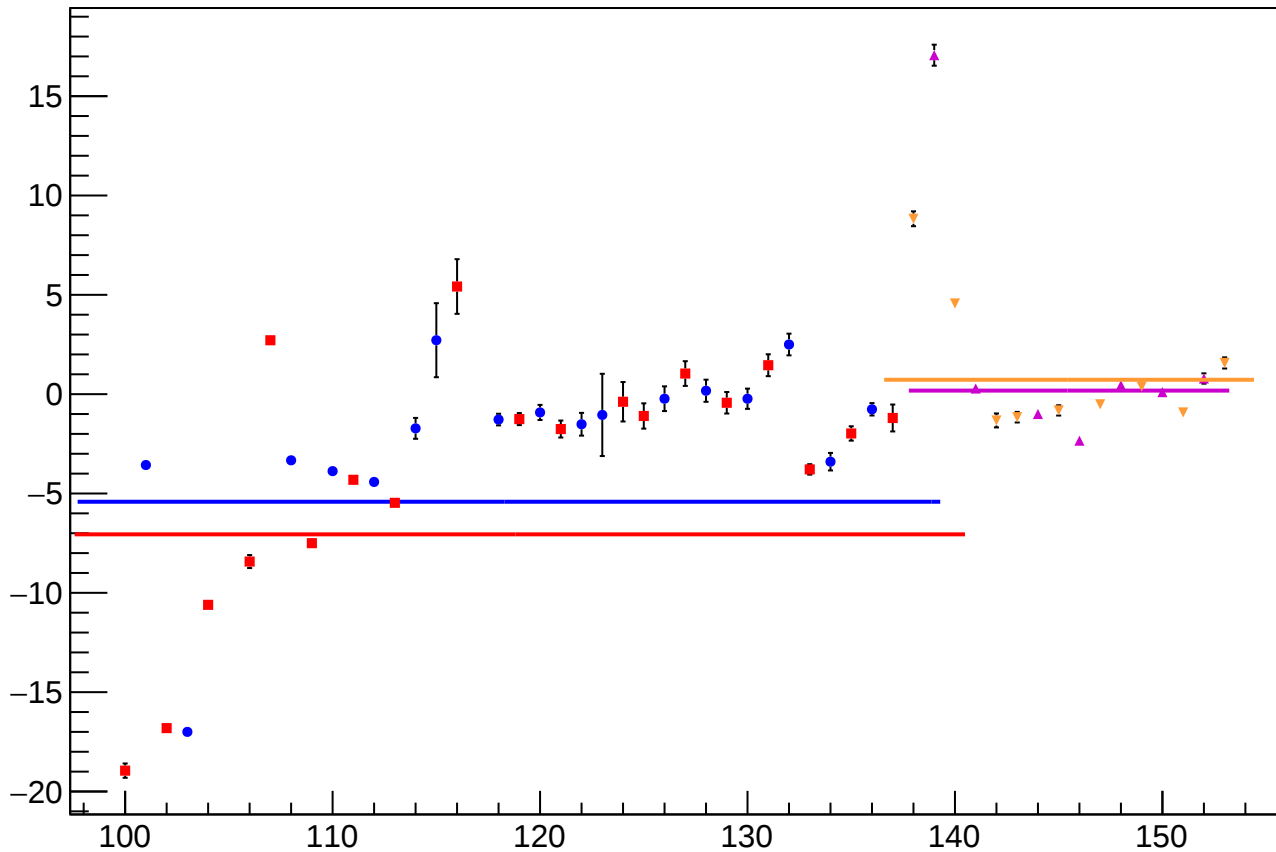
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



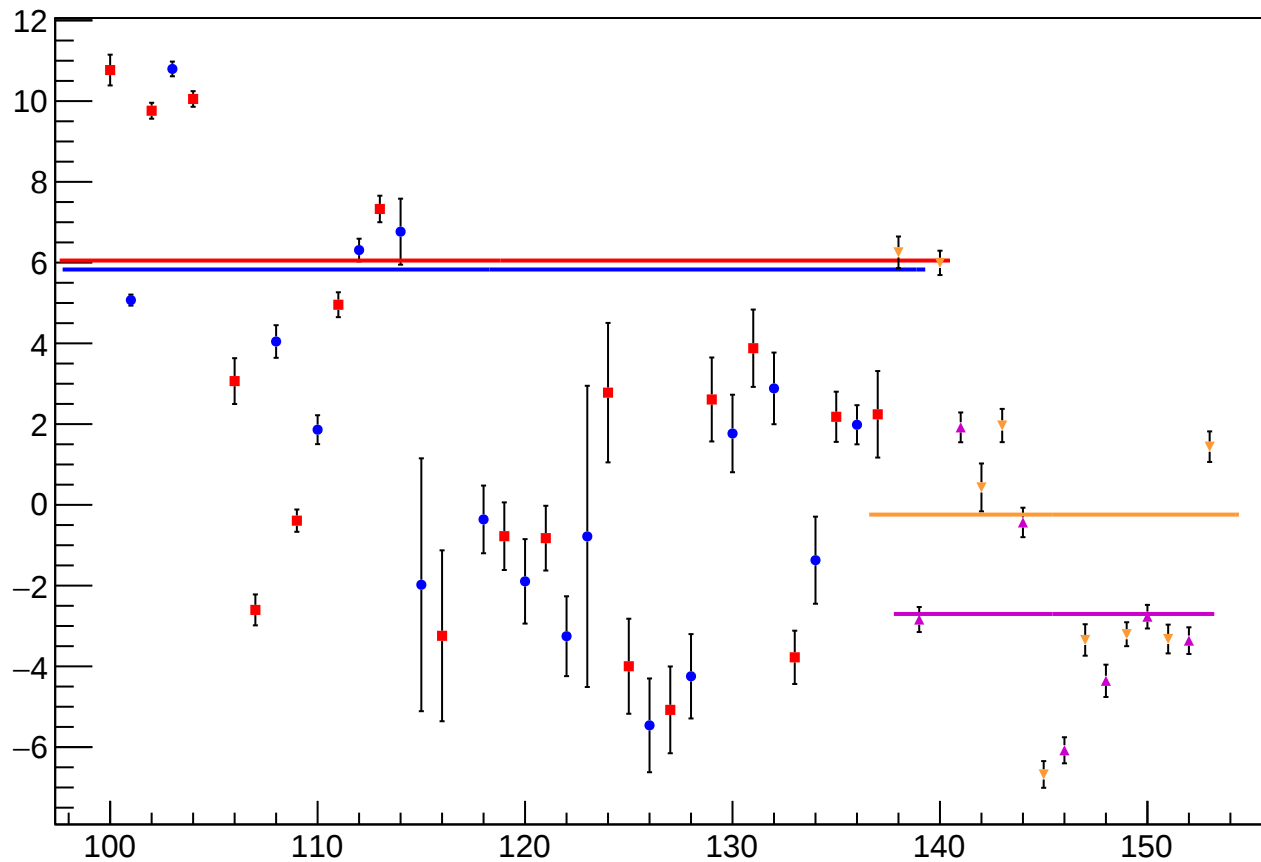
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -3.230 $\pm$ 0.120  $\chi^2$ /NDF:1397.8/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -1.493 $\pm$ 0.127  $\chi^2$ /NDF:502.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -2.409 $\pm$ 0.087  $\chi^2$ /NDF: 1999.4/15  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 5.829 $\pm$ 0.090  $\chi^2$ /NDF: 1448.3/16

Left Out: -0.241 $\pm$ 0.121  $\chi^2$ /NDF:1368.8/8

Right Out: 6.051 $\pm$ 0.093  $\chi^2$ /NDF: 2674.1/18

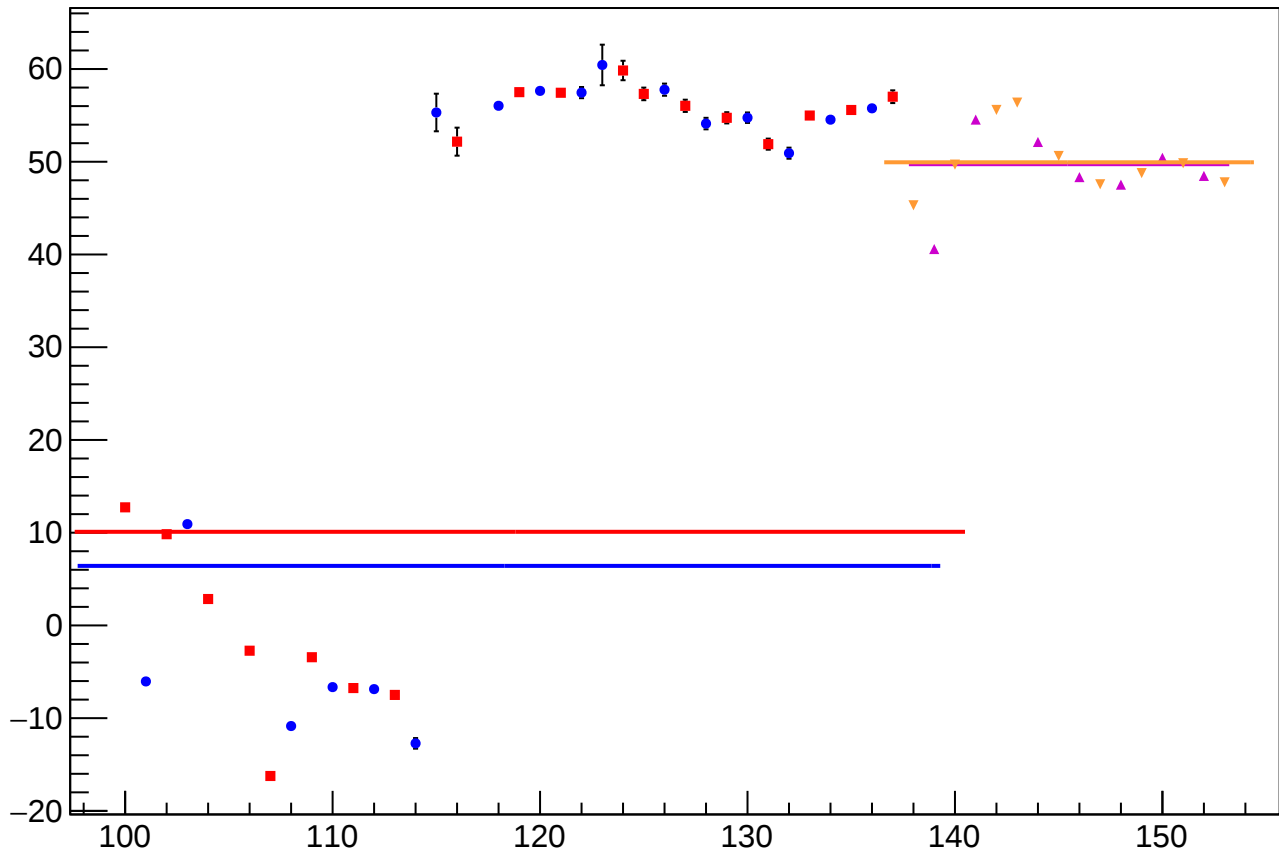
Left In: -2.702 $\pm$ 0.127  $\chi^2$ /NDF:326.3/6

+ sign 3.680 $\pm$ 0.072  $\chi^2$ /NDF: 4441.0/25

All: 3.347 $\pm$ 0.052  $\chi^2$ /NDF: 10571.6/51

- sign 2.983 $\pm$ 0.075  $\chi^2$ /NDF: 6085.8/25

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $6.421 \pm 0.065$   $\chi^2/\text{NDF}$ : 123109.7/16

Left Out:  $49.943 \pm 0.102$   $\chi^2/\text{NDF}$ : 850.5/8

Right Out:  $10.096 \pm 0.070$   $\chi^2/\text{NDF}$ : 122124.3/18

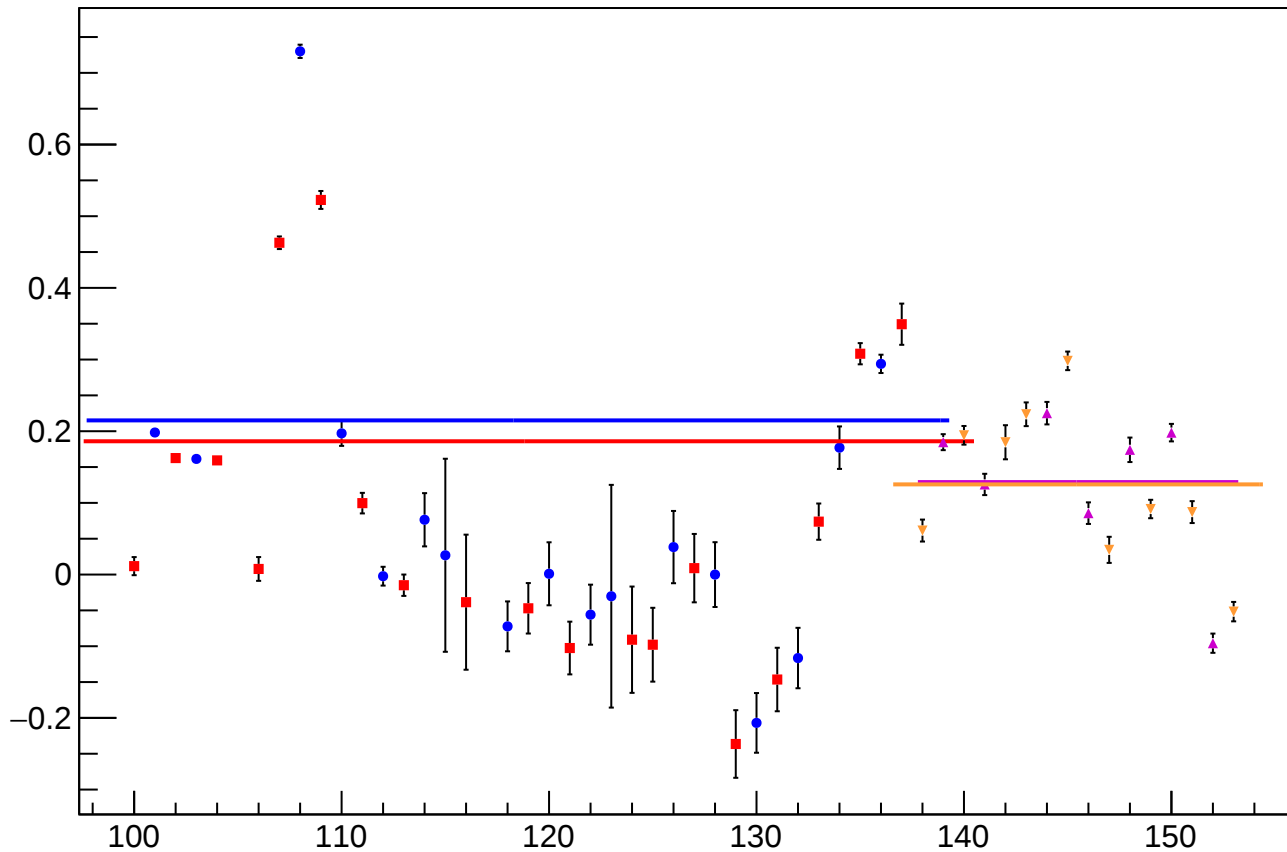
Left In:  $49.737 \pm 0.112$   $\chi^2/\text{NDF}$ : 759.8/6

+ sign  $18.967 \pm 0.055$   $\chi^2/\text{NDF}$ : 254264.5/25

All:  $20.006 \pm 0.040$   $\chi^2/\text{NDF}$ : 468711.3/51

- sign  $21.225 \pm 0.059$   $\chi^2/\text{NDF}$ : 213659.8/25

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:  $0.126 \pm 0.005$   $\chi^2/\text{NDF}: 473.9/8$

Right Out:  $0.186 \pm 0.003$   $\chi^2/\text{NDF}: 2719.3/18$

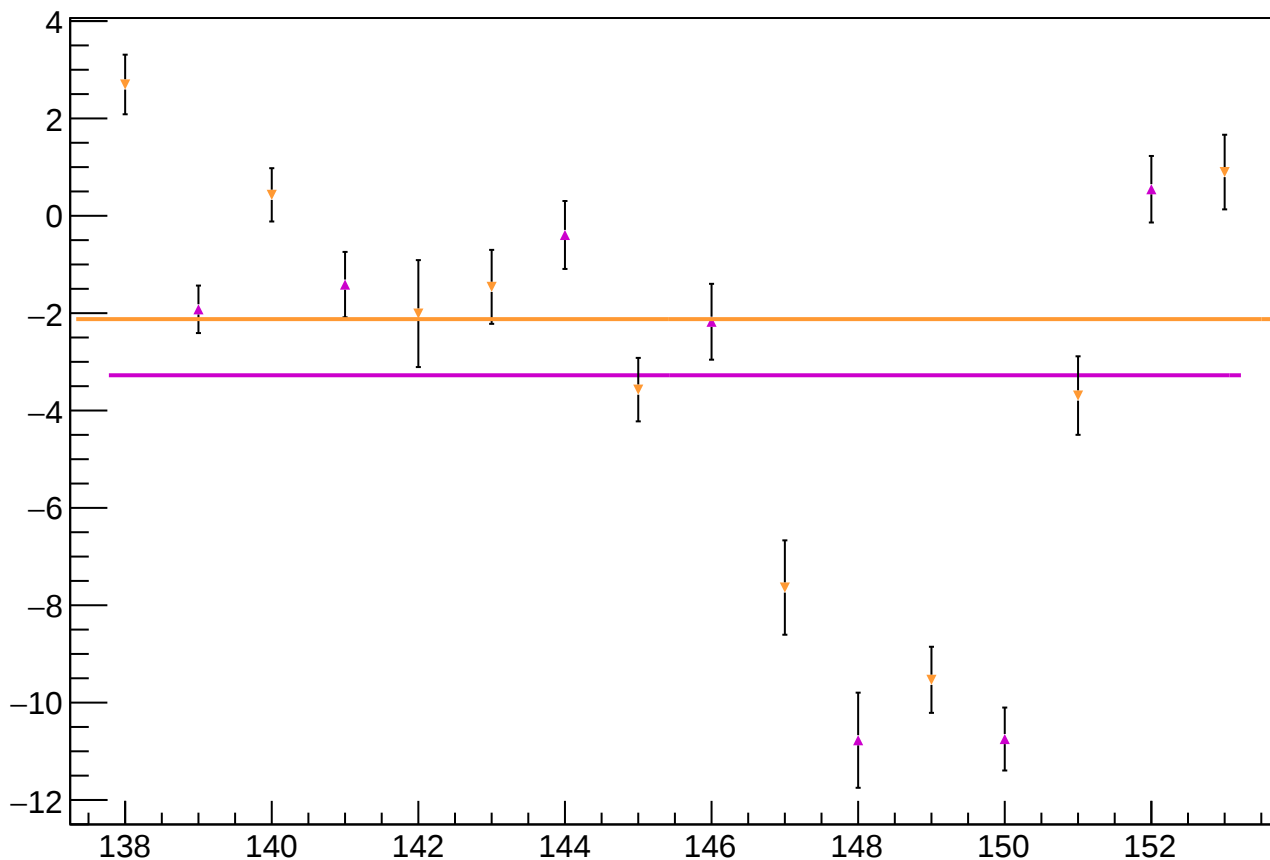
Left In:  $0.129 \pm 0.005$   $\chi^2/\text{NDF}: 390.6/6$

+ sign  $0.194 \pm 0.002$   $\chi^2/\text{NDF}: 4646.7/25$

All:  $0.184 \pm 0.002$   $\chi^2/\text{NDF}: 7885.4/51$

- sign  $0.174 \pm 0.002$   $\chi^2/\text{NDF}: 3204.2/25$

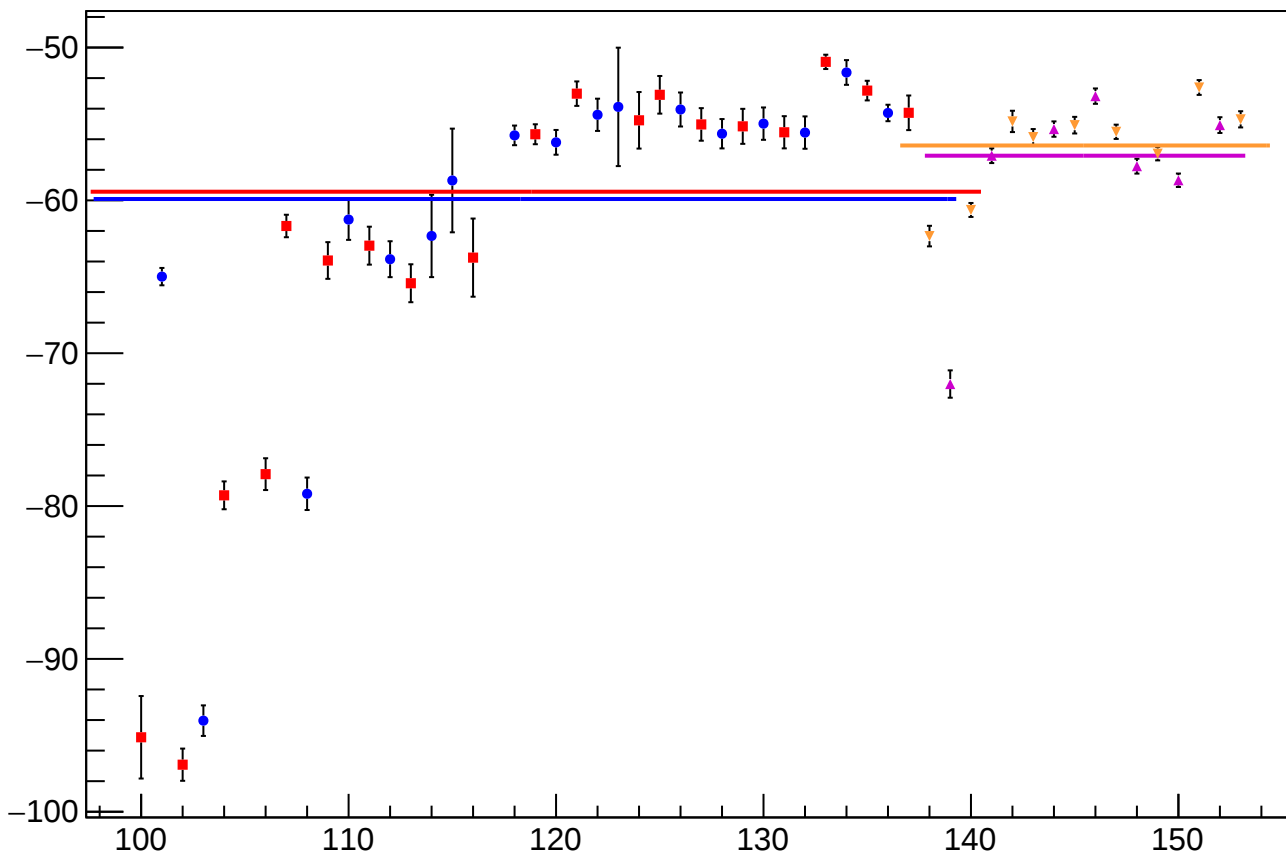
# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-2.122 \pm 0.240$   $\chi^2/\text{NDF}$ : 260.2/8  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-3.276 \pm 0.252$   $\chi^2/\text{NDF}$ : 258.2/6

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $-2.670 \pm 0.174$   $\chi^2/\text{NDF}$ : 529.3/15  
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $-56.408 \pm 0.173$   $\chi^2/\text{NDF}$ : 251.5/8

Right Out:  $-59.432 \pm 0.212$   $\chi^2/\text{NDF}$ : 2918.9/18

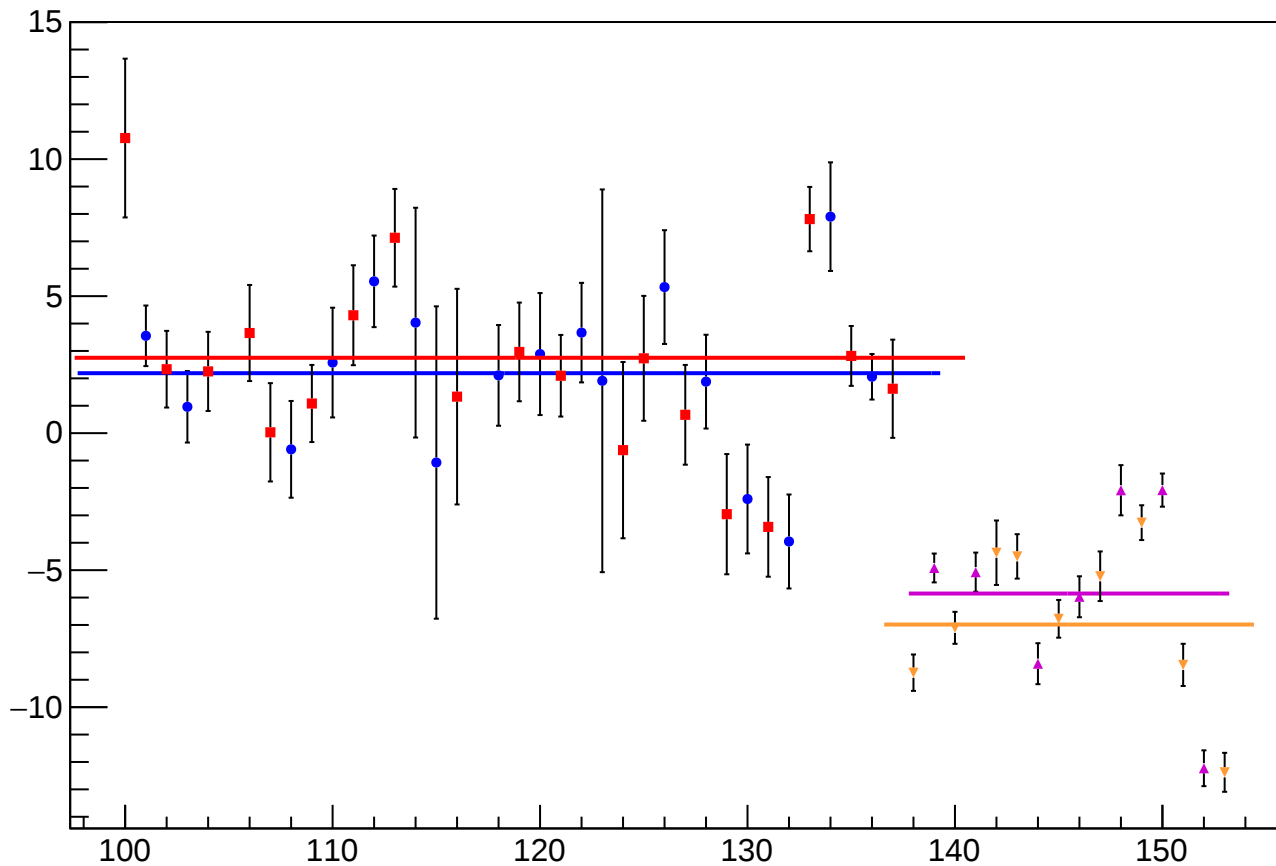
Left In:  $-57.077 \pm 0.194$   $\chi^2/\text{NDF}$ : 381.1/6

+ sign  $-57.719 \pm 0.137$   $\chi^2/\text{NDF}$ : 2386.4/25

All:  $-57.925 \pm 0.099$   $\chi^2/\text{NDF}$ : 5758.6/51

- sign  $-58.151 \pm 0.143$   $\chi^2/\text{NDF}$ : 3367.4/25

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:  $-6.984 \pm 0.243$   $\chi^2/\text{NDF}$ : 120.8/8

Right Out:  $2.751 \pm 0.387$   $\chi^2/\text{NDF}$ : 58.6/18

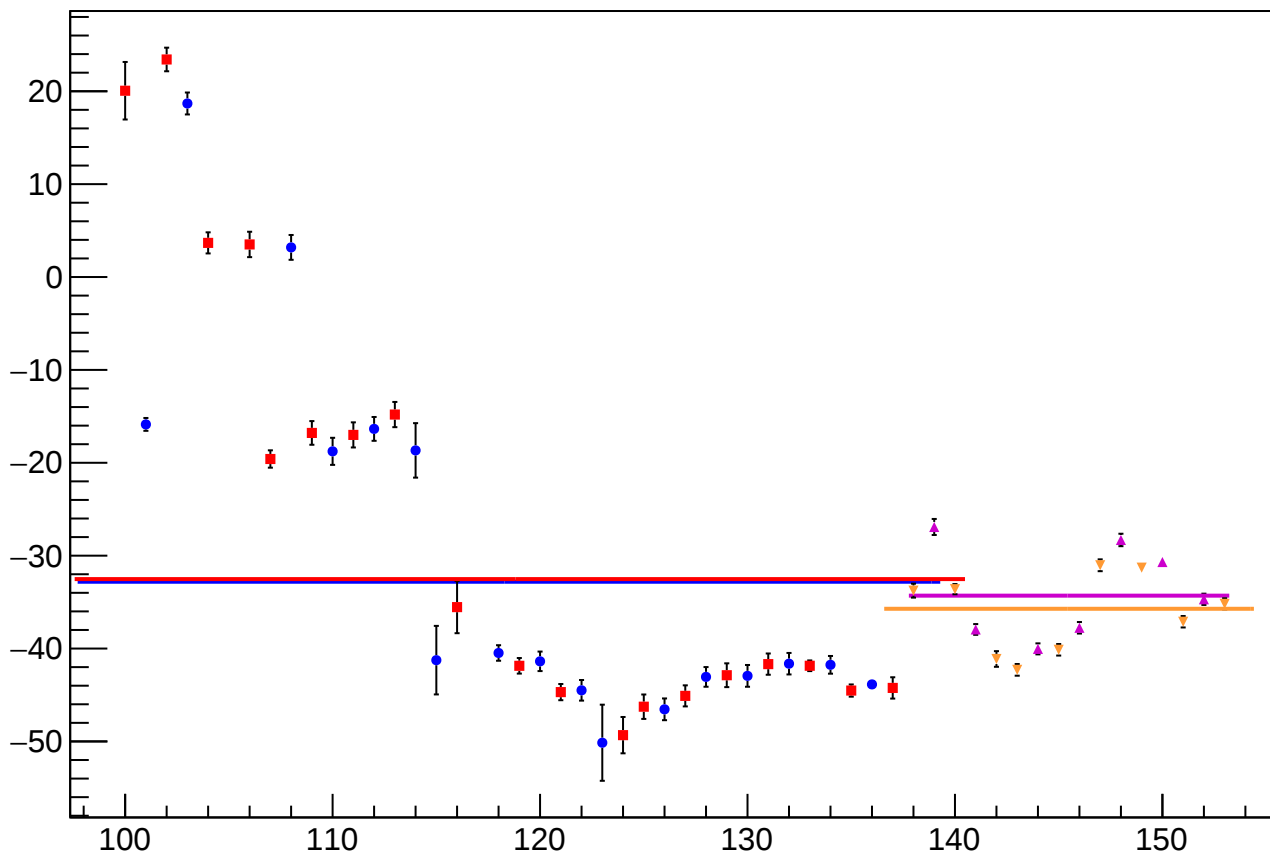
Left In:  $-5.853 \pm 0.255$   $\chi^2/\text{NDF}$ : 167.1/6

+ sign  $-4.551 \pm 0.208$   $\chi^2/\text{NDF}$ : 537.6/25

All:  $-3.917 \pm 0.149$   $\chi^2/\text{NDF}$ : 1126.6/51

- sign  $-3.256 \pm 0.213$   $\chi^2/\text{NDF}$ : 570.1/25

# 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: -35.719 $\pm$ 0.208  $\chi^2/\text{NDF}$ : 351.8/8

Right Out: -32.522 $\pm$ 0.244  $\chi^2/\text{NDF}$ : 6040.2/18

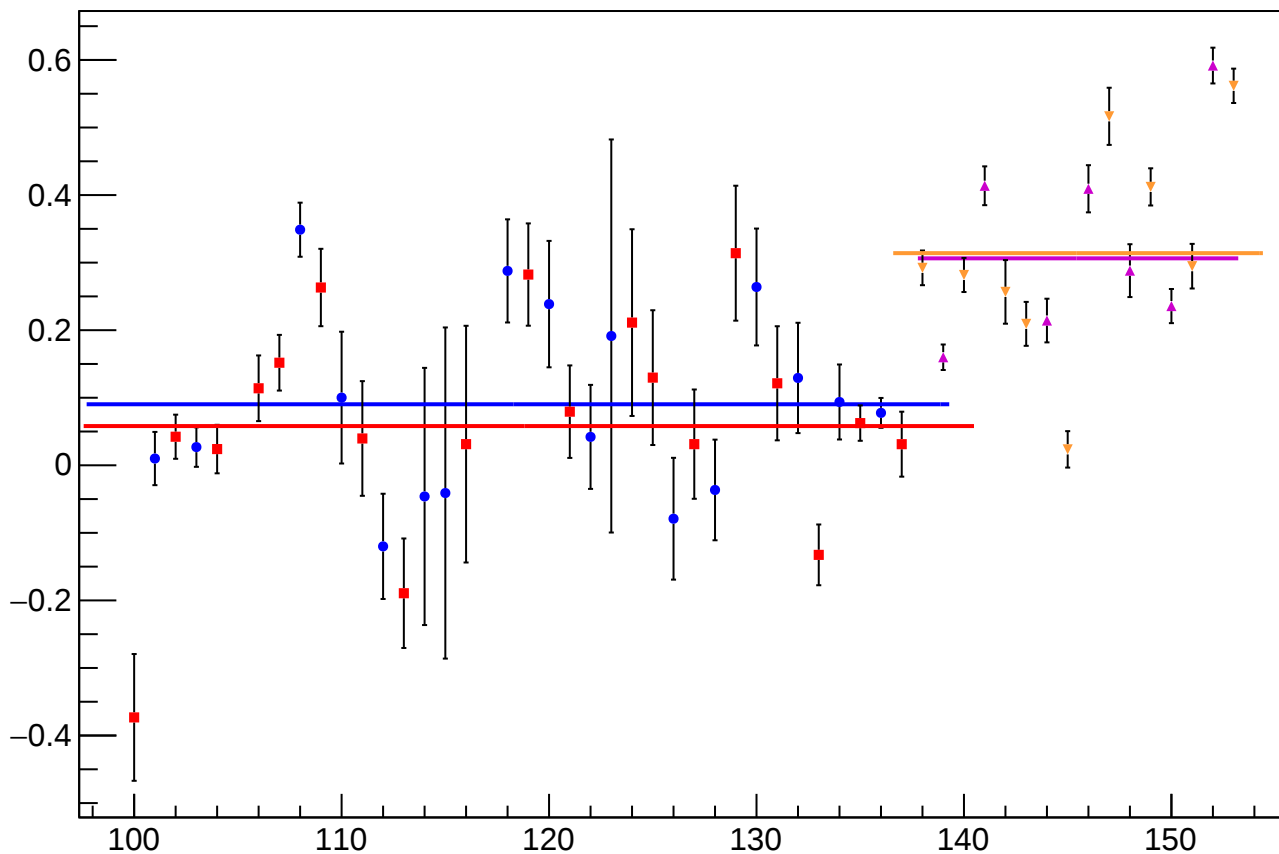
Left In: -34.304 $\pm$ 0.232  $\chi^2/\text{NDF}$ : 368.5/6

+ sign -34.548 $\pm$ 0.161  $\chi^2/\text{NDF}$ : 5093.1/25

All: -34.025 $\pm$ 0.116  $\chi^2/\text{NDF}$ : 11551.9/51

- sign -33.457 $\pm$ 0.168  $\chi^2/\text{NDF}$ : 6436.8/25

# 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:  $0.314 \pm 0.010$   $\chi^2/\text{NDF}: 261.0/8$

Right Out:  $0.058 \pm 0.012$   $\chi^2/\text{NDF}: 87.1/18$

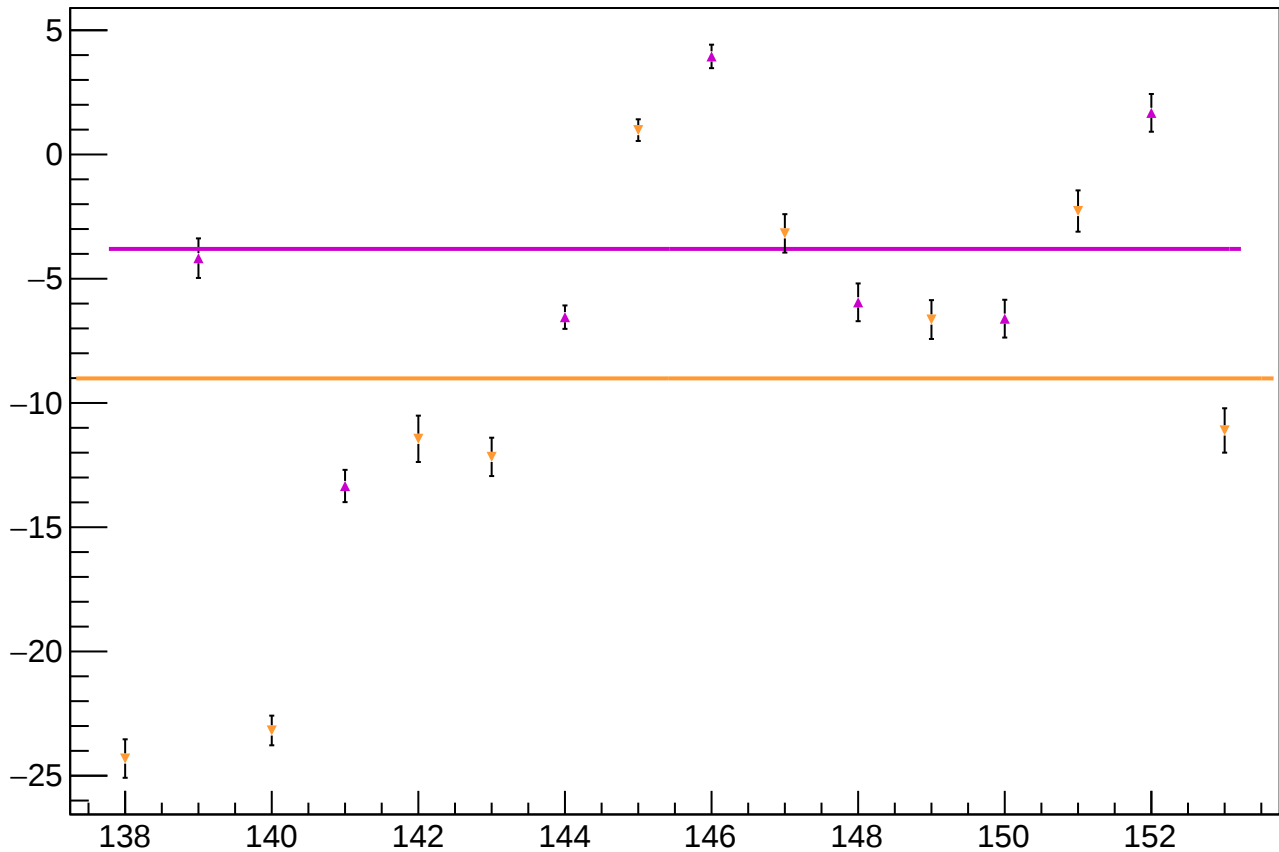
Left In:  $0.306 \pm 0.010$   $\chi^2/\text{NDF}: 215.1/6$

+ sign  $0.230 \pm 0.008$   $\chi^2/\text{NDF}: 532.8/25$

All:  $0.216 \pm 0.006$   $\chi^2/\text{NDF}: 1084.4/51$

- sign  $0.203 \pm 0.008$   $\chi^2/\text{NDF}: 545.6/25$

# 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: -9.011 $\pm$ 0.232  $\chi^2$ /NDF:1639.9/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

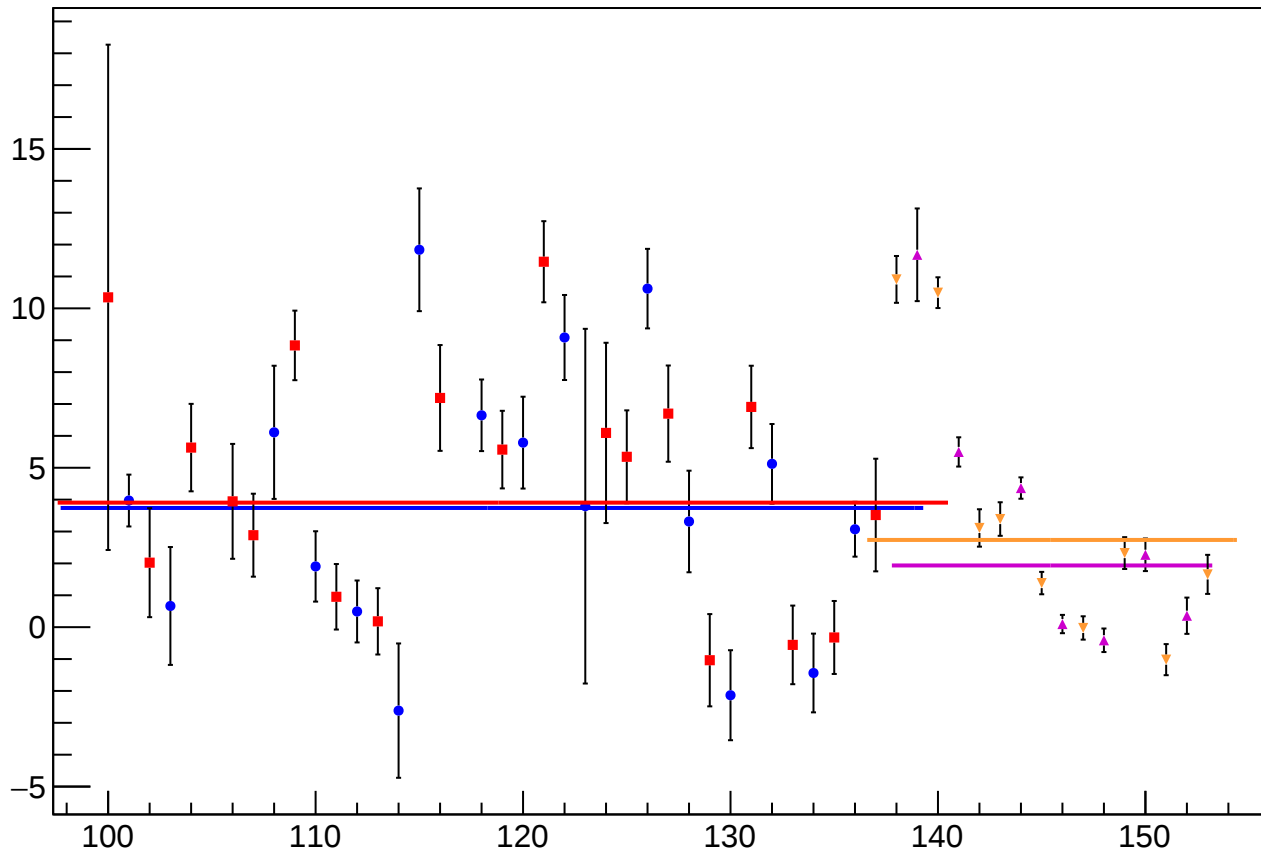
Left In: -3.800 $\pm$ 0.235  $\chi^2$ /NDF:592.5/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.438 $\pm$ 0.165  $\chi^2$ /NDF: 2481.5/15

- 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:  $2.736 \pm 0.160$   $\chi^2/\text{NDF}$ : 519.0/8

Right Out:  $3.906 \pm 0.316$   $\chi^2/\text{NDF}$ : 135.5/18

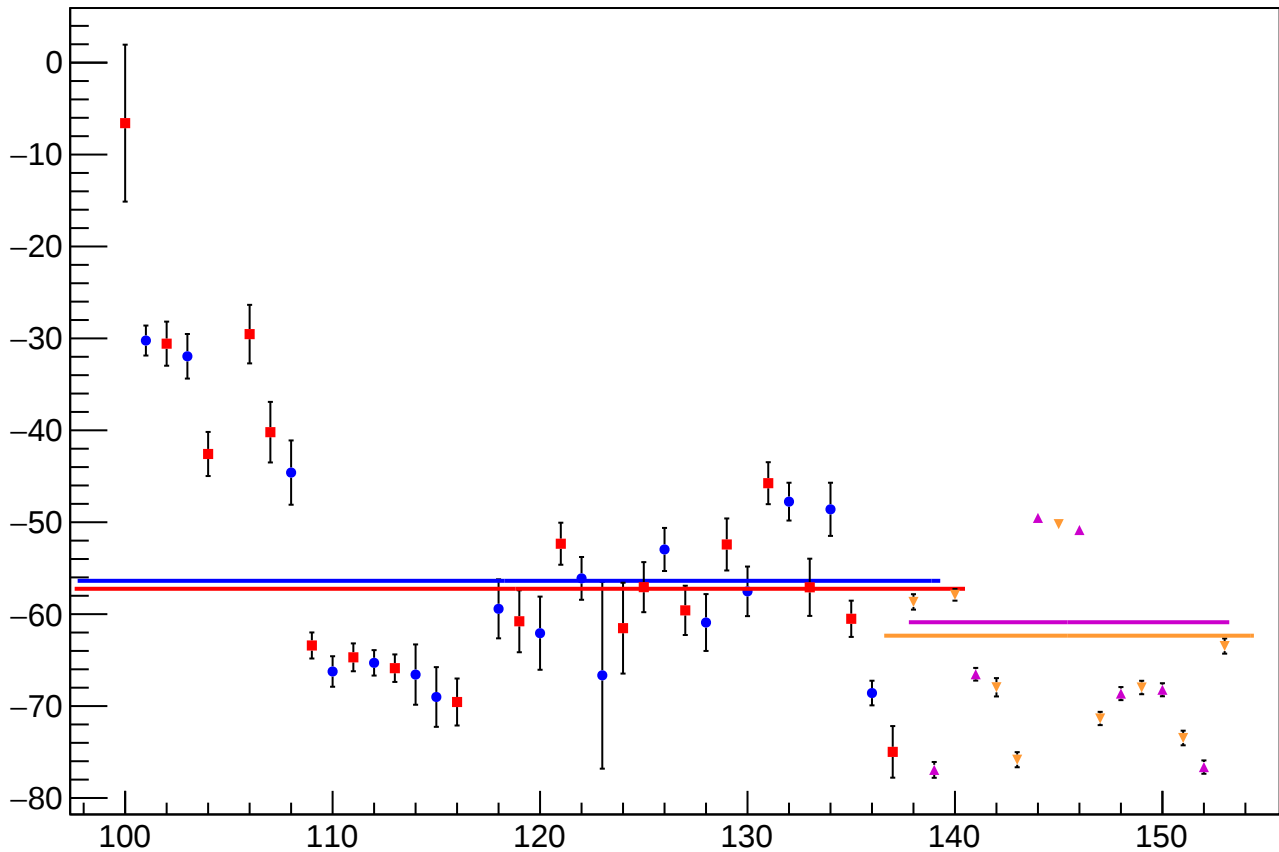
Left In:  $1.935 \pm 0.157$   $\chi^2/\text{NDF}$ : 247.1/6

+ sign  $2.948 \pm 0.142$   $\chi^2/\text{NDF}$ : 664.2/25

All:  $2.634 \pm 0.100$   $\chi^2/\text{NDF}$ : 1087.6/51

- sign  $2.326 \pm 0.141$   $\chi^2/\text{NDF}$ : 413.8/25

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-56.373 \pm 0.543$   $\chi^2/\text{NDF}: 587.6/16$

Left Out:  $-62.341 \pm 0.237$   $\chi^2/\text{NDF}: 1466.0/8$

Right Out:  $-57.240 \pm 0.536$   $\chi^2/\text{NDF}: 476.3/18$

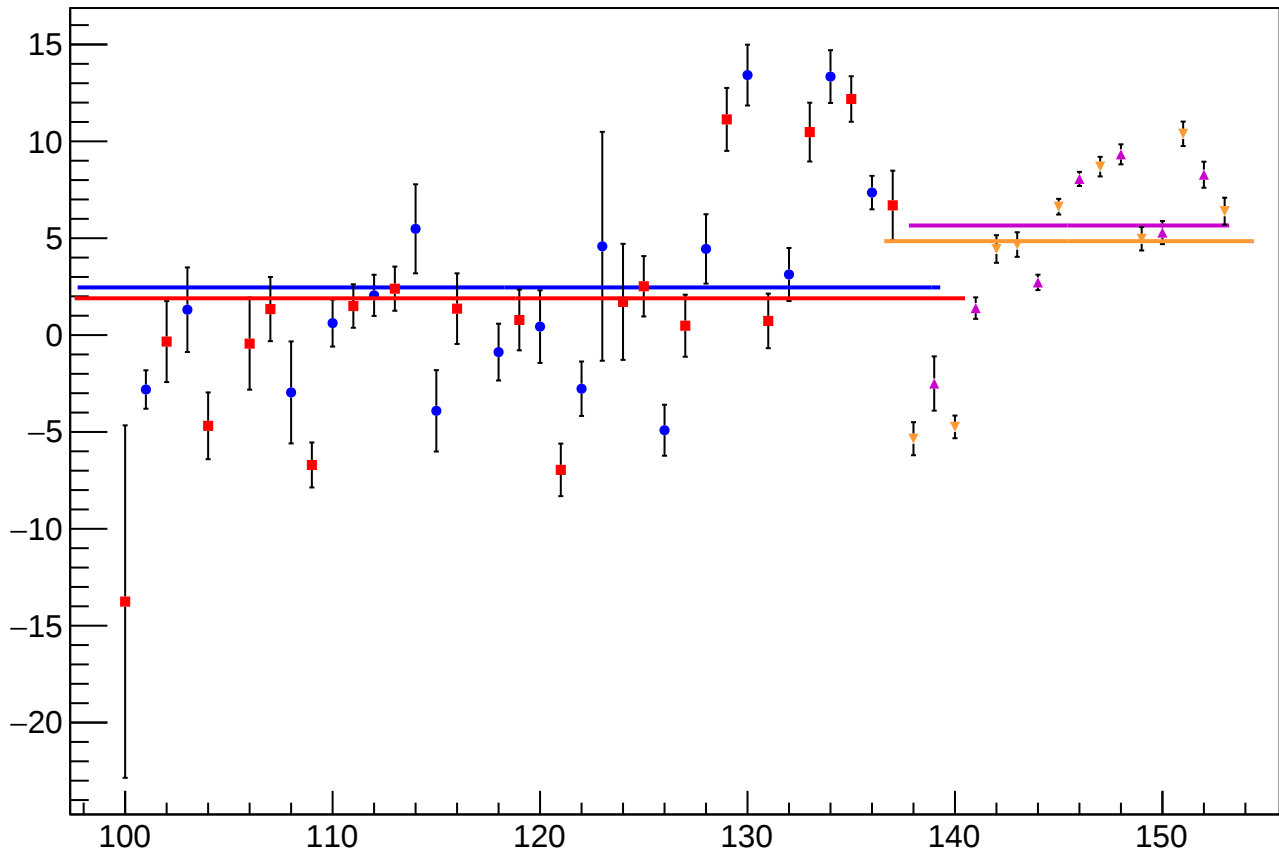
Left In:  $-60.879 \pm 0.235$   $\chi^2/\text{NDF}: 2105.4/6$

+ sign  $-61.389 \pm 0.217$   $\chi^2/\text{NDF}: 2155.1/25$

All:  $-60.836 \pm 0.153$   $\chi^2/\text{NDF}: 4788.4/51$

- sign  $-60.291 \pm 0.215$   $\chi^2/\text{NDF}: 2620.3/25$

# reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $2.460 \pm 0.346$   $\chi^2/\text{NDF}$ : 243.9/16

Left Out:  $4.848 \pm 0.196$   $\chi^2/\text{NDF}$ : 572.0/8

Right Out:  $1.898 \pm 0.355$   $\chi^2/\text{NDF}$ : 268.1/18

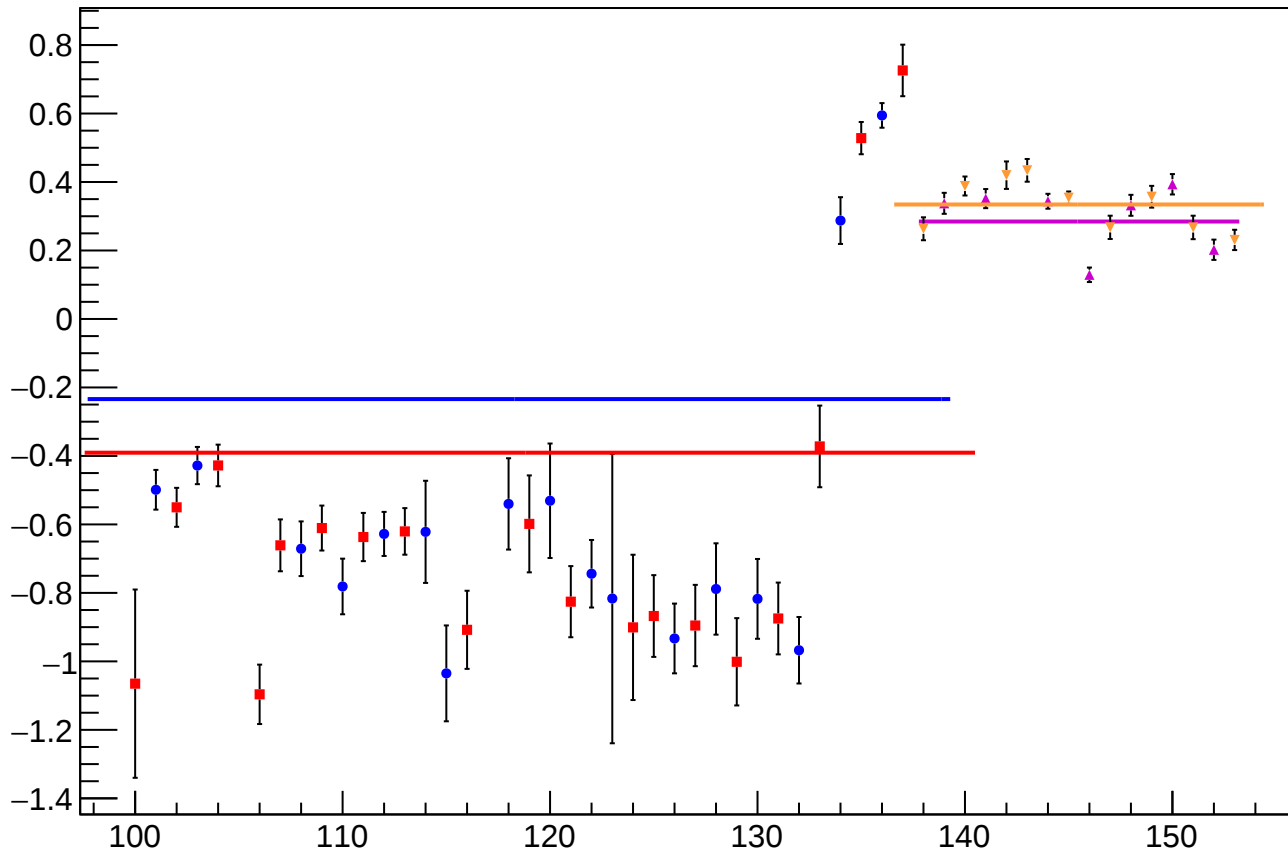
Left In:  $5.657 \pm 0.195$   $\chi^2/\text{NDF}$ : 257.2/6

+ sign  $4.269 \pm 0.170$   $\chi^2/\text{NDF}$ : 852.0/25

All:  $4.528 \pm 0.121$   $\chi^2/\text{NDF}$ : 1468.2/51

- sign  $4.788 \pm 0.171$   $\chi^2/\text{NDF}$ : 611.6/25

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:  $0.334 \pm 0.010$   $\chi^2/\text{NDF}$ : 43.5/8

Right Out:  $-0.391 \pm 0.019$   $\chi^2/\text{NDF}$ : 852.7/18

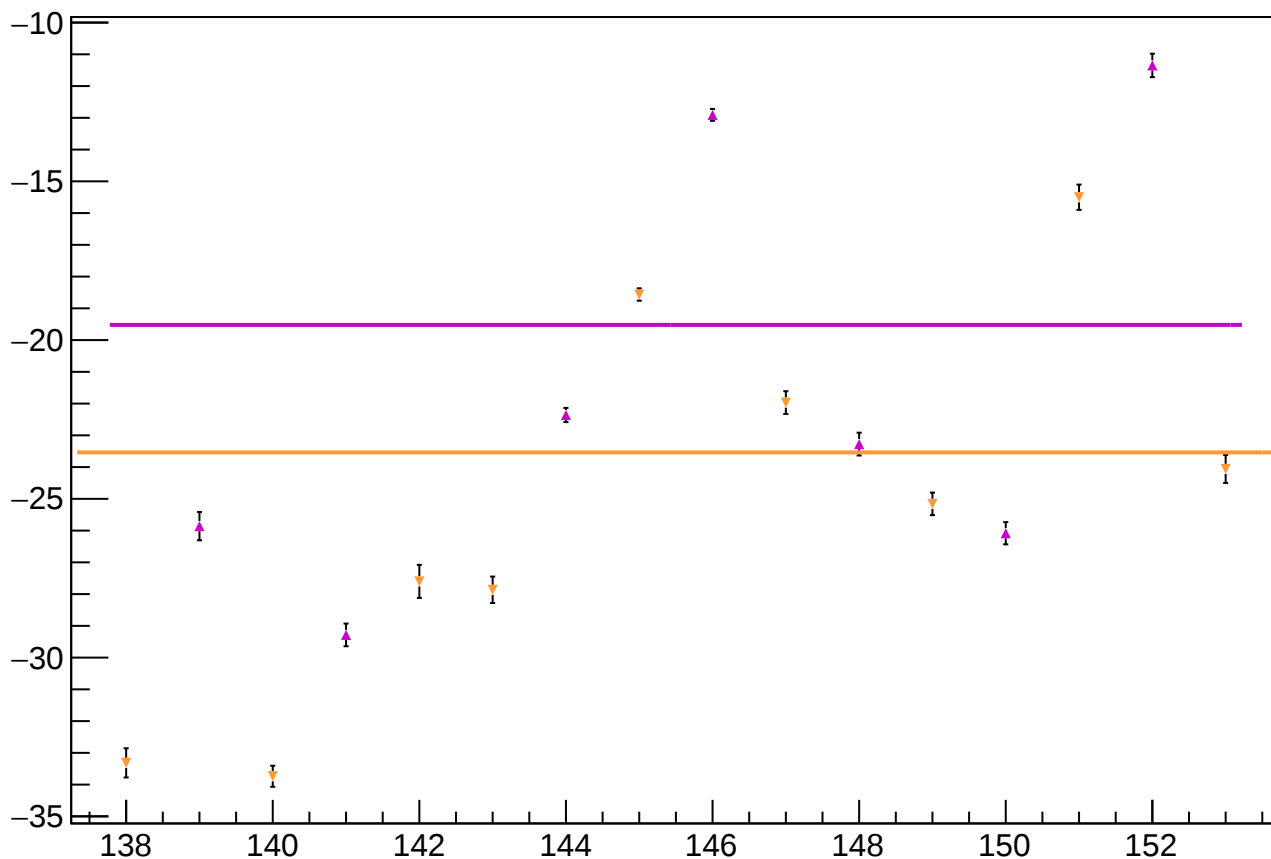
Left In:  $0.285 \pm 0.010$   $\chi^2/\text{NDF}$ : 93.7/6

+ sign  $0.215 \pm 0.009$   $\chi^2/\text{NDF}$ : 1717.3/25

All:  $0.178 \pm 0.006$   $\chi^2/\text{NDF}$ : 3695.6/51

- sign  $0.138 \pm 0.009$   $\chi^2/\text{NDF}$ : 1939.0/25

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -23.538 $\pm$ 0.114  $\chi^2$ /NDF:2666.4/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

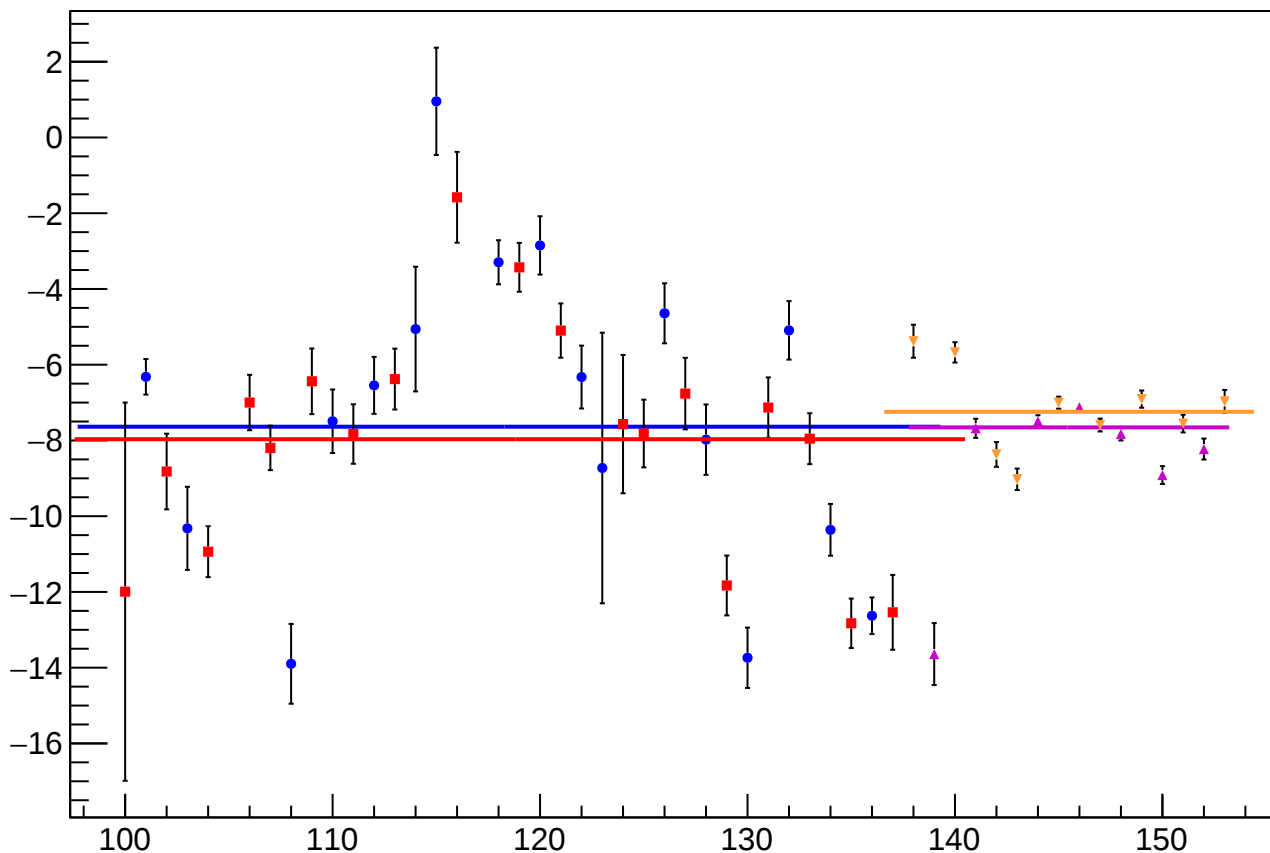
Left In: -19.522 $\pm$ 0.109  $\chi^2$ /NDF:3306.4/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.433 $\pm$ 0.079  $\chi^2$ /NDF: 6622.4/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-7.243 \pm 0.078$   $\chi^2/\text{NDF}$ : 115.2/8

Right Out:  $-7.968 \pm 0.186$   $\chi^2/\text{NDF}$ : 227.2/18

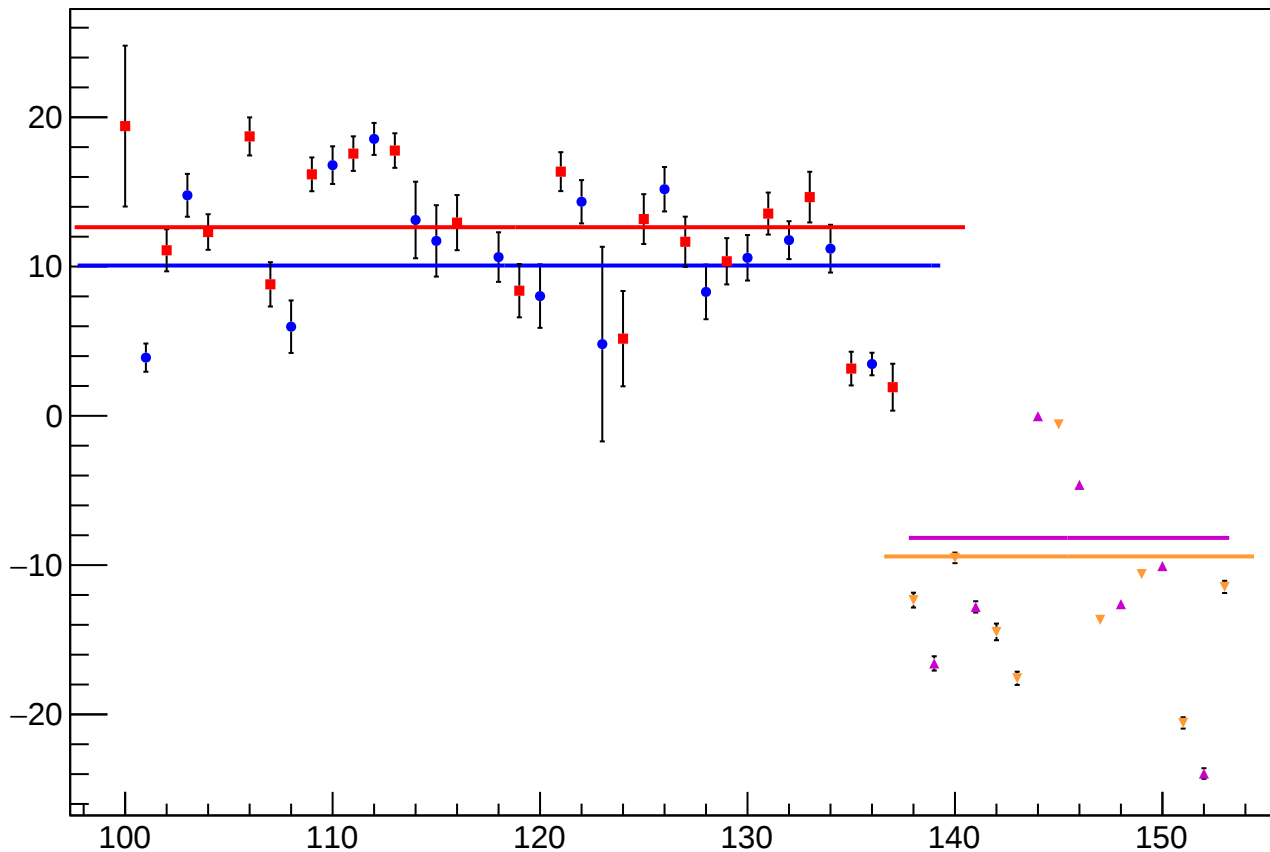
Left In:  $-7.654 \pm 0.072$   $\chi^2/\text{NDF}$ : 109.1/6

+ sign  $-7.302 \pm 0.072$   $\chi^2/\text{NDF}$ : 513.1/25

All:  $-7.513 \pm 0.049$   $\chi^2/\text{NDF}$ : 867.9/51

- sign  $-7.695 \pm 0.067$   $\chi^2/\text{NDF}$ : 338.8/25

# 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:  $-9.419 \pm 0.116$   $\chi^2/\text{NDF}$ : 3355.3/8

Right Out:  $12.635 \pm 0.332$   $\chi^2/\text{NDF}$ : 220.5/18

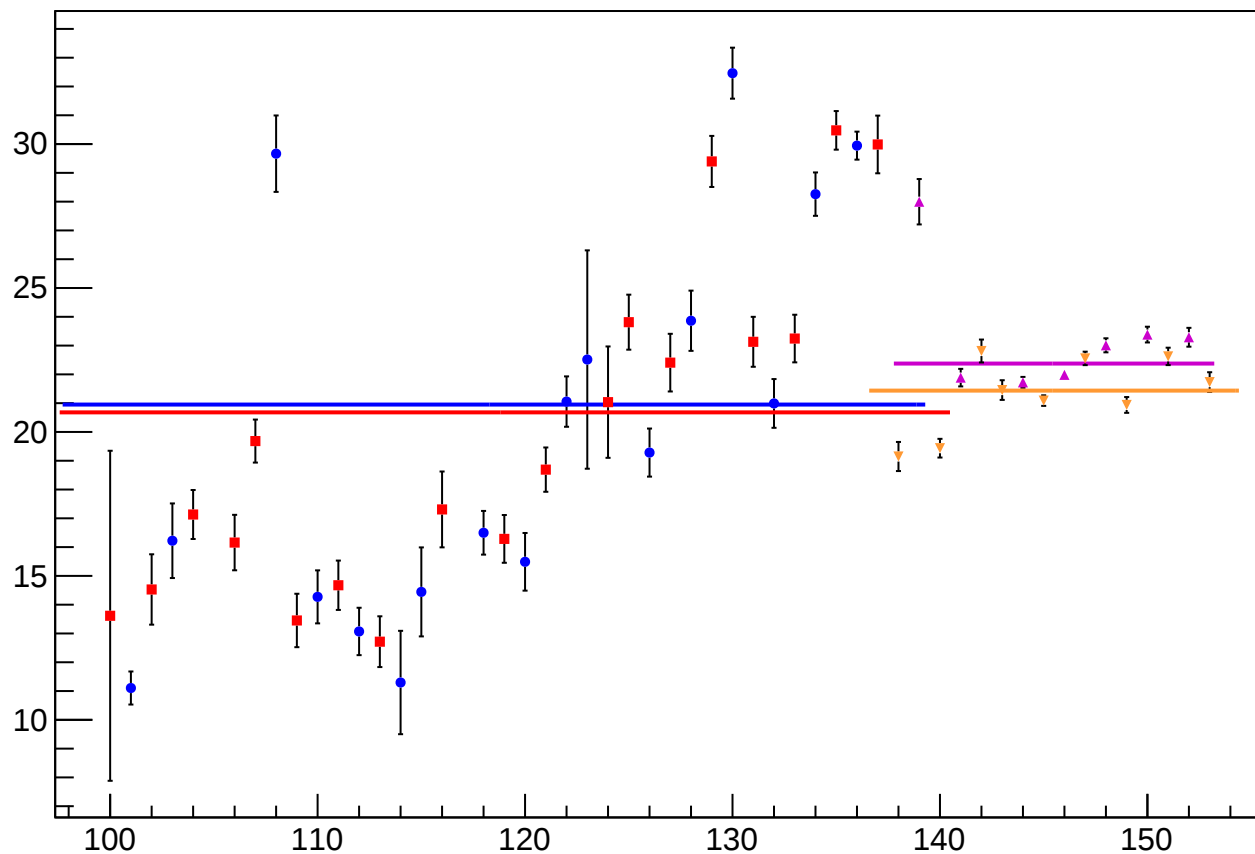
Left In:  $-8.177 \pm 0.108$   $\chi^2/\text{NDF}$ : 4197.2/6

+ sign  $-7.371 \pm 0.109$   $\chi^2/\text{NDF}$ : 6593.8/25

All:  $-6.743 \pm 0.075$   $\chi^2/\text{NDF}$ : 14617.8/51

- sign  $-6.188 \pm 0.103$   $\chi^2/\text{NDF}$ : 7961.8/25

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 20.951 $\pm$ 0.210  $\chi^2$ /NDF: 1222.8/16

Left Out: 21.436 $\pm$ 0.096  $\chi^2$ /NDF:116.3/8

Right Out: 20.680 $\pm$ 0.213  $\chi^2$ /NDF: 728.4/18

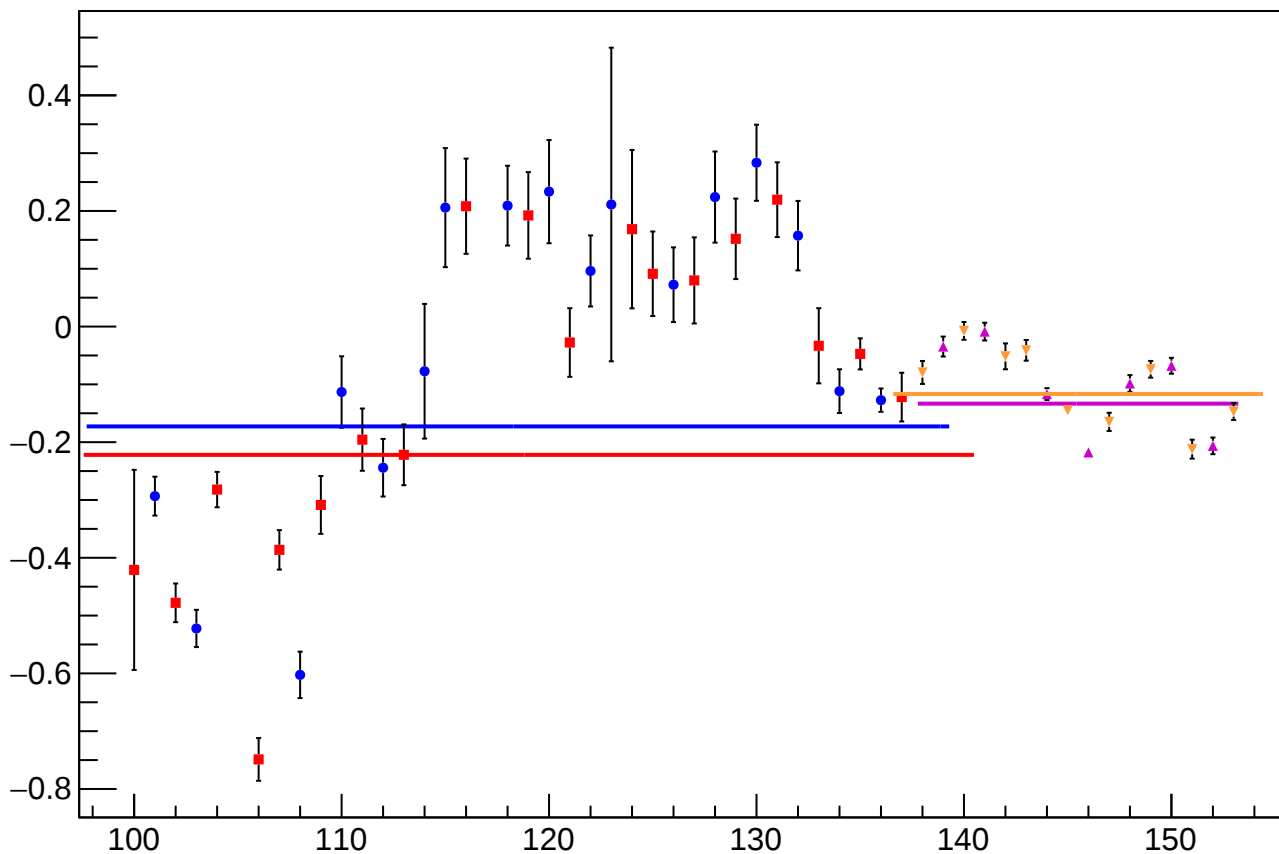
Left In: 22.375 $\pm$ 0.089  $\chi^2$ /NDF:100.5/6

+ sign 21.353 $\pm$ 0.087  $\chi^2$ /NDF: 1343.5/25

All: 21.760 $\pm$ 0.060  $\chi^2$ /NDF: 2267.9/51

- sign 22.122 $\pm$ 0.082  $\chi^2$ /NDF: 883.0/25

# 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:  $-0.117 \pm 0.005$   $\chi^2/\text{NDF}$ : 148.6/8

Right Out:  $-0.222 \pm 0.011$   $\chi^2/\text{NDF}$ : 536.5/18

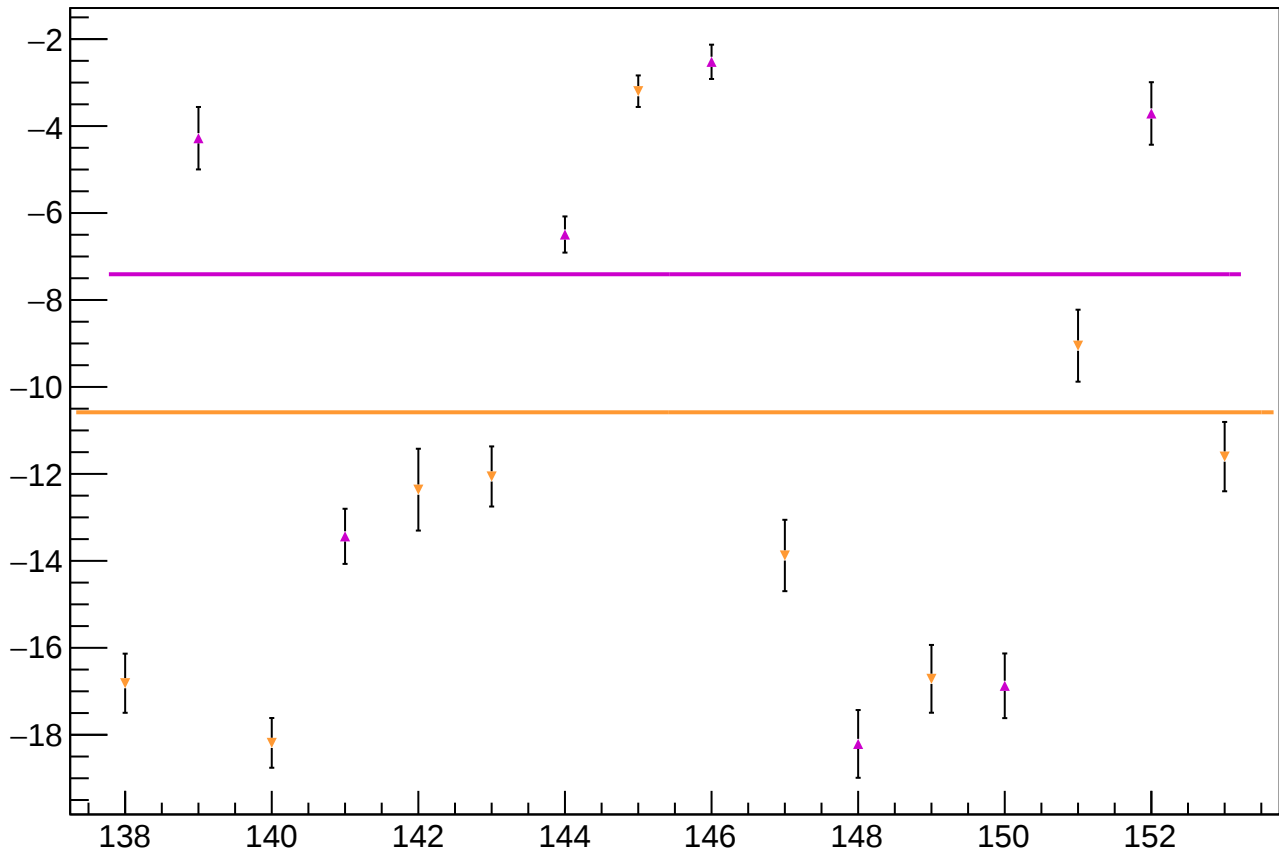
Left In:  $-0.133 \pm 0.005$   $\chi^2/\text{NDF}$ : 255.5/6

+ sign  $-0.125 \pm 0.004$   $\chi^2/\text{NDF}$ : 630.3/25

All:  $-0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 1490.6/51

- sign  $-0.147 \pm 0.004$   $\chi^2/\text{NDF}$ : 847.5/25

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: -10.583+/-0.212  $\chi^2/\text{NDF}$ : 766.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

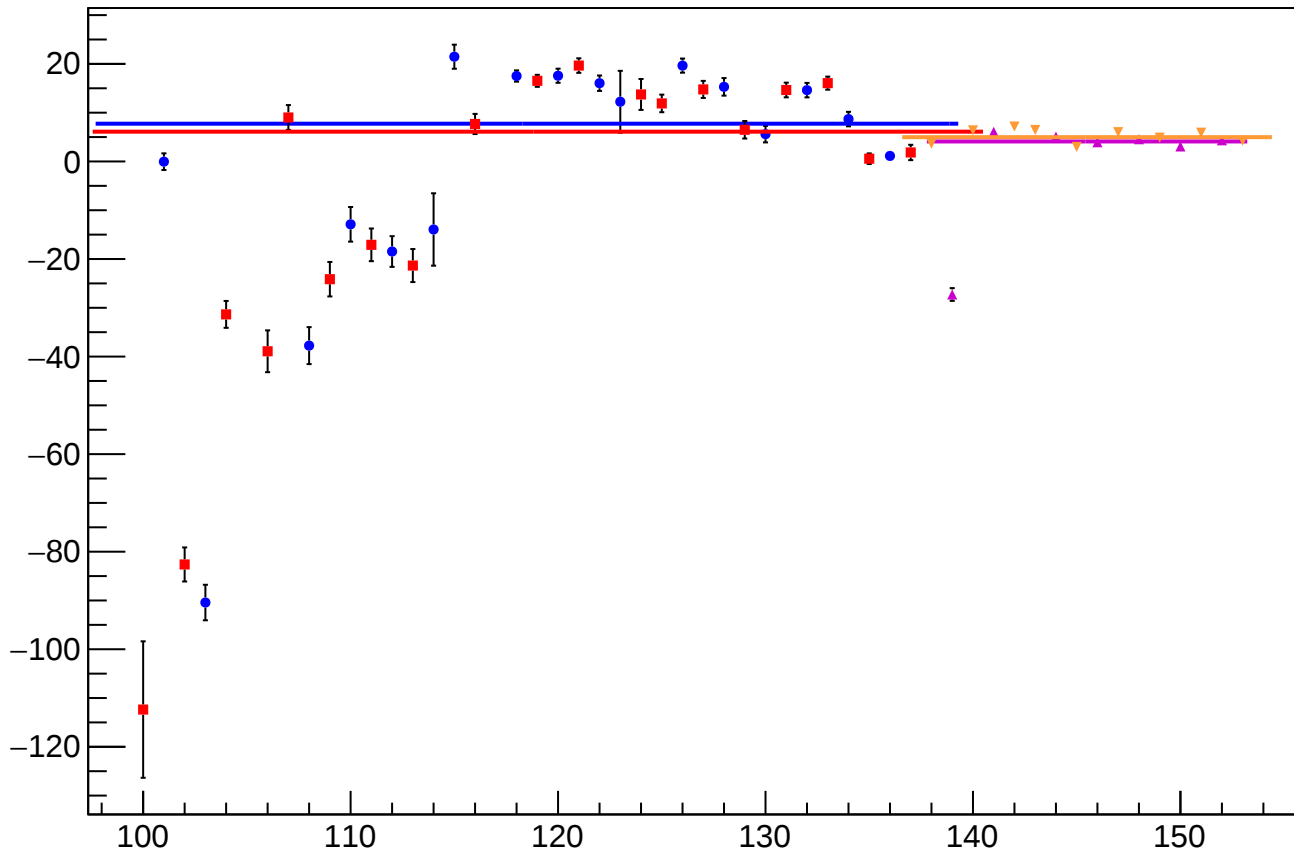
Left In: -7.408+/-0.213  $\chi^2/\text{NDF}$ : 648.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.002+/-0.150  $\chi^2/\text{NDF}$ : 1525.9/15

- 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:  $4.979 \pm 0.150$   $\chi^2/\text{NDF}: 96.5/8$

Right Out:  $6.106 \pm 0.433$   $\chi^2/\text{NDF}: 1517.7/18$

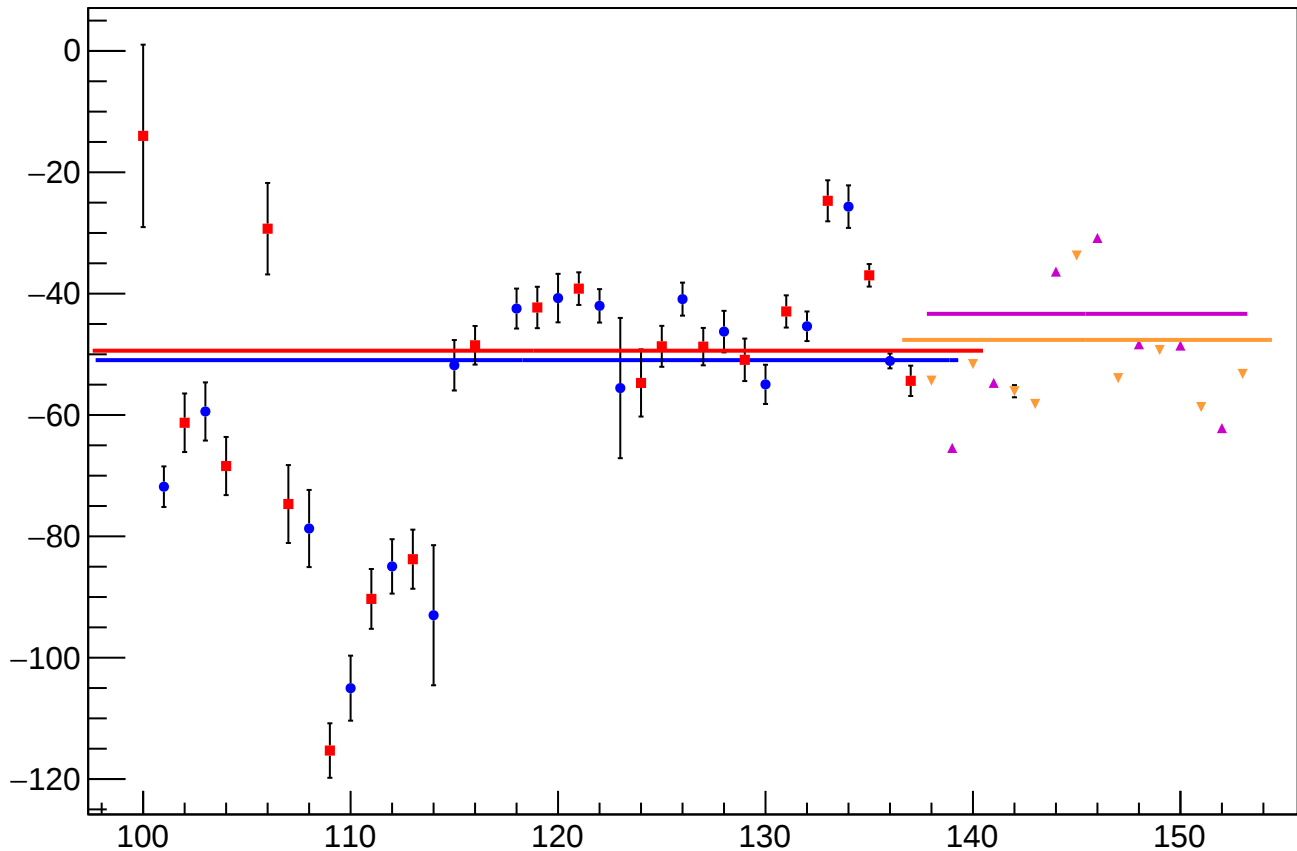
Left In:  $4.100 \pm 0.146$   $\chi^2/\text{NDF}: 612.5/6$

+ sign  $5.314 \pm 0.140$   $\chi^2/\text{NDF}: 1496.7/25$

All:  $4.801 \pm 0.098$   $\chi^2/\text{NDF}: 3672.5/51$

- sign  $4.304 \pm 0.138$   $\chi^2/\text{NDF}: 2149.5/25$

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:  $-47.623 \pm 0.218$   $\chi^2/\text{NDF}$ : 2013.9/8

Right Out:  $-49.402 \pm 0.797$   $\chi^2/\text{NDF}$ : 512.0/18

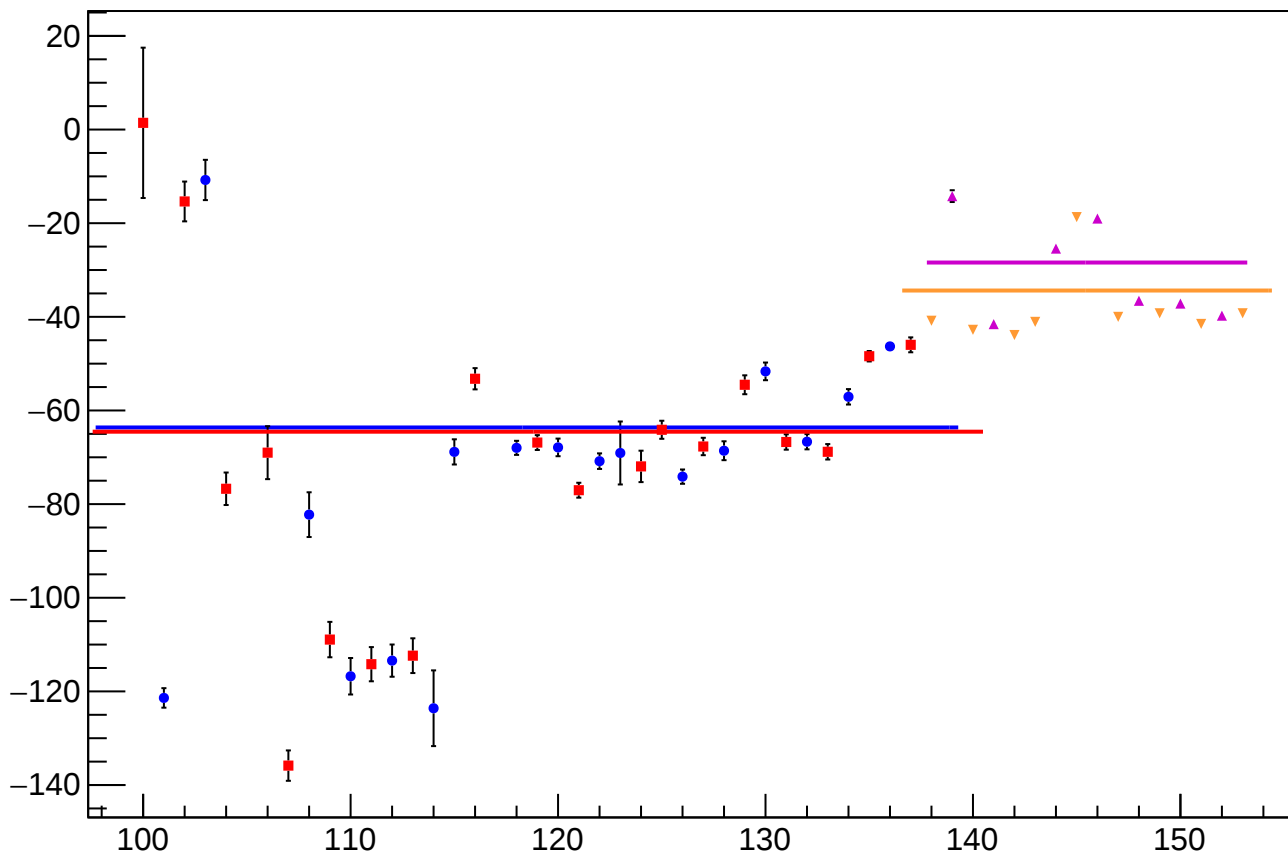
Left In:  $-43.328 \pm 0.214$   $\chi^2/\text{NDF}$ : 3276.5/6

+ sign  $-47.890 \pm 0.209$   $\chi^2/\text{NDF}$ : 2364.5/25

All:  $-45.787 \pm 0.147$   $\chi^2/\text{NDF}$ : 6406.9/51

- sign  $-43.736 \pm 0.207$   $\chi^2/\text{NDF}$ : 3842.7/25

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-63.631 \pm 0.446$   $\chi^2/\text{NDF}$ : 2011.2/16

Left Out:  $-34.381 \pm 0.182$   $\chi^2/\text{NDF}$ : 3179.2/8

Right Out:  $-64.531 \pm 0.482$   $\chi^2/\text{NDF}$ : 1611.2/18

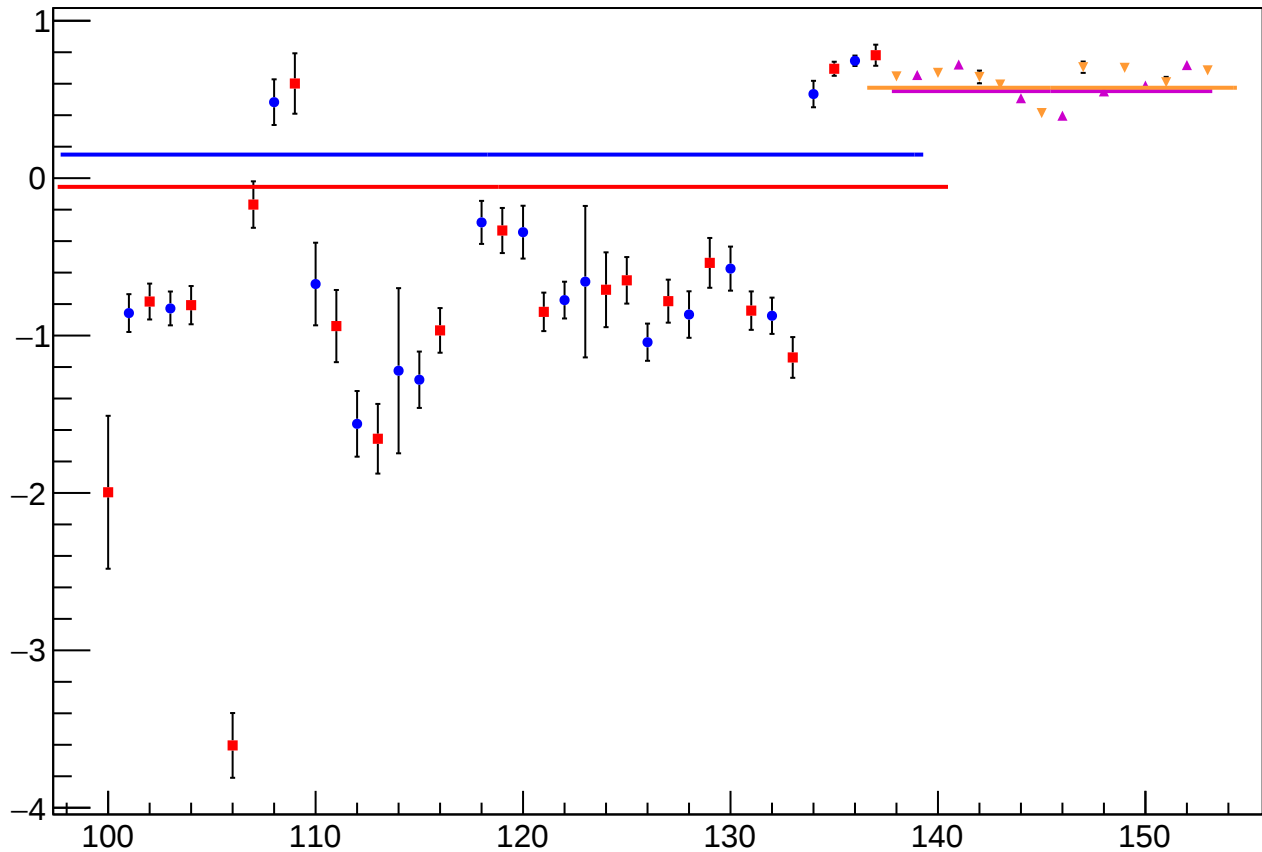
Left In:  $-28.402 \pm 0.179$   $\chi^2/\text{NDF}$ : 2461.8/6

+ sign  $-38.548 \pm 0.168$   $\chi^2/\text{NDF}$ : 8881.4/25

All:  $-35.659 \pm 0.119$   $\chi^2/\text{NDF}$ : 18480.1/51

- sign  $-32.785 \pm 0.168$   $\chi^2/\text{NDF}$ : 9010.8/25

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $0.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.2/16

Left Out:  $0.574 \pm 0.009$   $\chi^2/\text{NDF}$ : 181.6/8

Right Out:  $-0.055 \pm 0.026$   $\chi^2/\text{NDF}$ : 1170.0/18

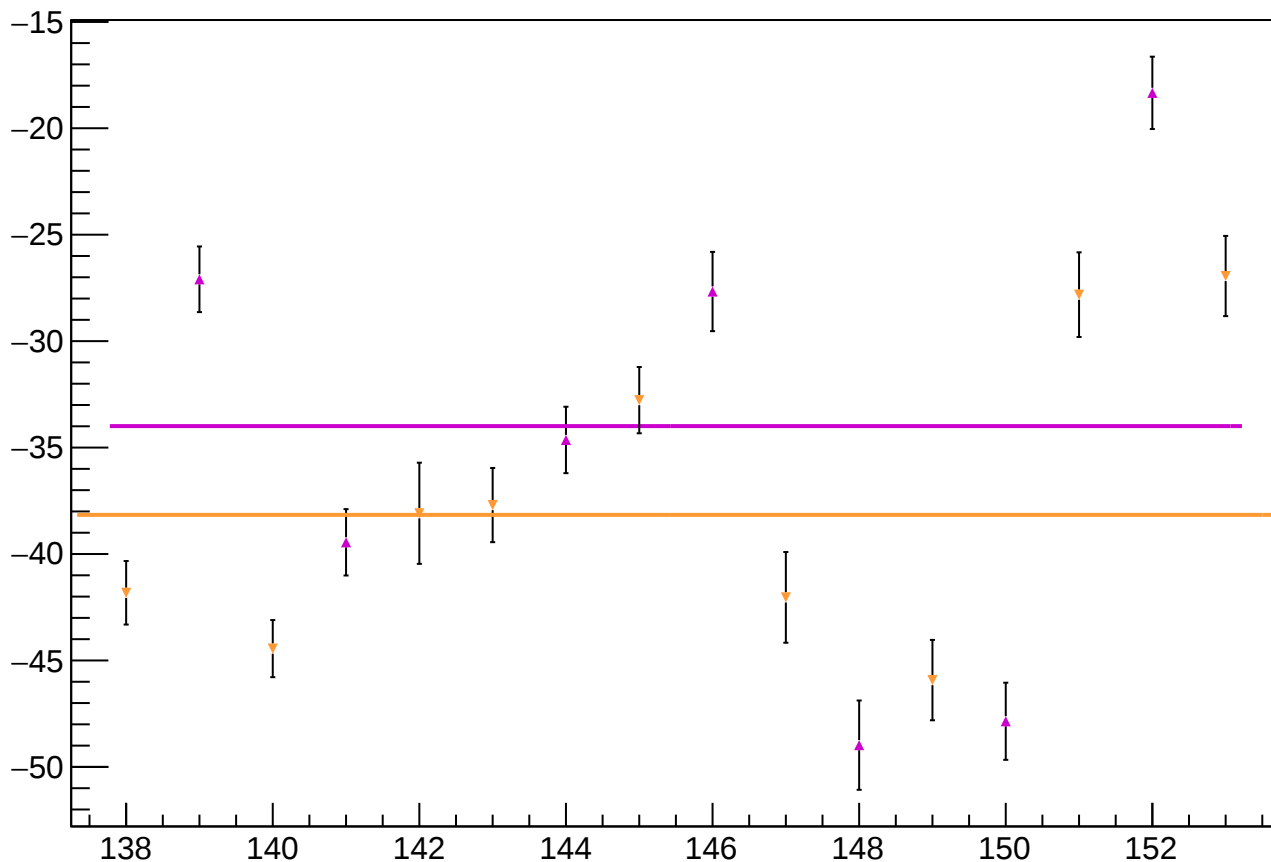
Left In:  $0.553 \pm 0.009$   $\chi^2/\text{NDF}$ : 170.5/6

+ sign  $0.523 \pm 0.008$   $\chi^2/\text{NDF}$ : 1446.5/25

All:  $0.506 \pm 0.006$   $\chi^2/\text{NDF}$ : 3277.2/51

- sign  $0.487 \pm 0.009$   $\chi^2/\text{NDF}$ : 1821.6/25

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -38.162 $\pm$ 0.581  $\chi^2$ /NDF:122.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

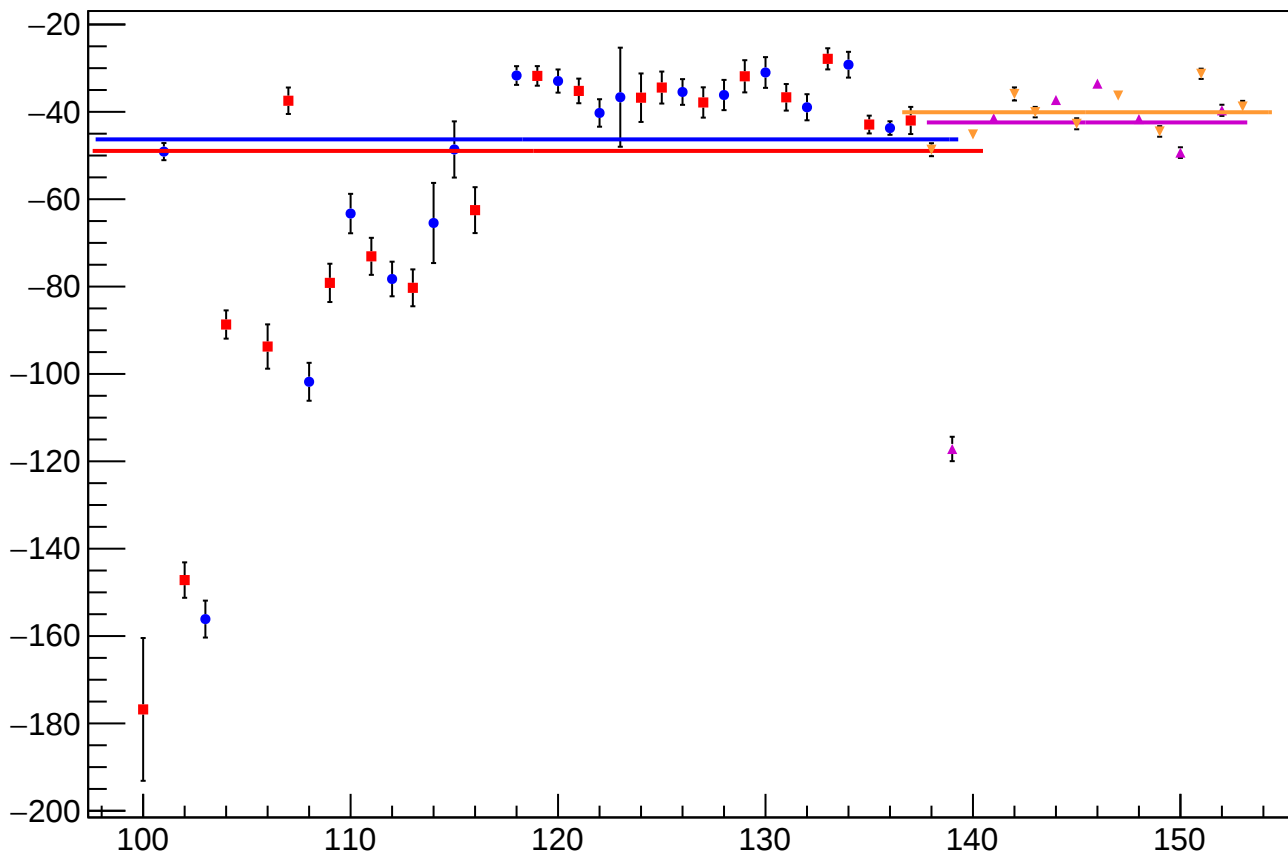
Left In: -33.991 $\pm$ 0.644  $\chi^2$ /NDF:238.4/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.290 $\pm$ 0.432  $\chi^2$ /NDF: 384.3/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-46.301 \pm 0.723$   $\chi^2/\text{NDF}$ : 1084.0/16

Left Out:  $-40.090 \pm 0.407$   $\chi^2/\text{NDF}$ : 151.4/8

Right Out:  $-48.945 \pm 0.762$   $\chi^2/\text{NDF}$ : 1273.6/18

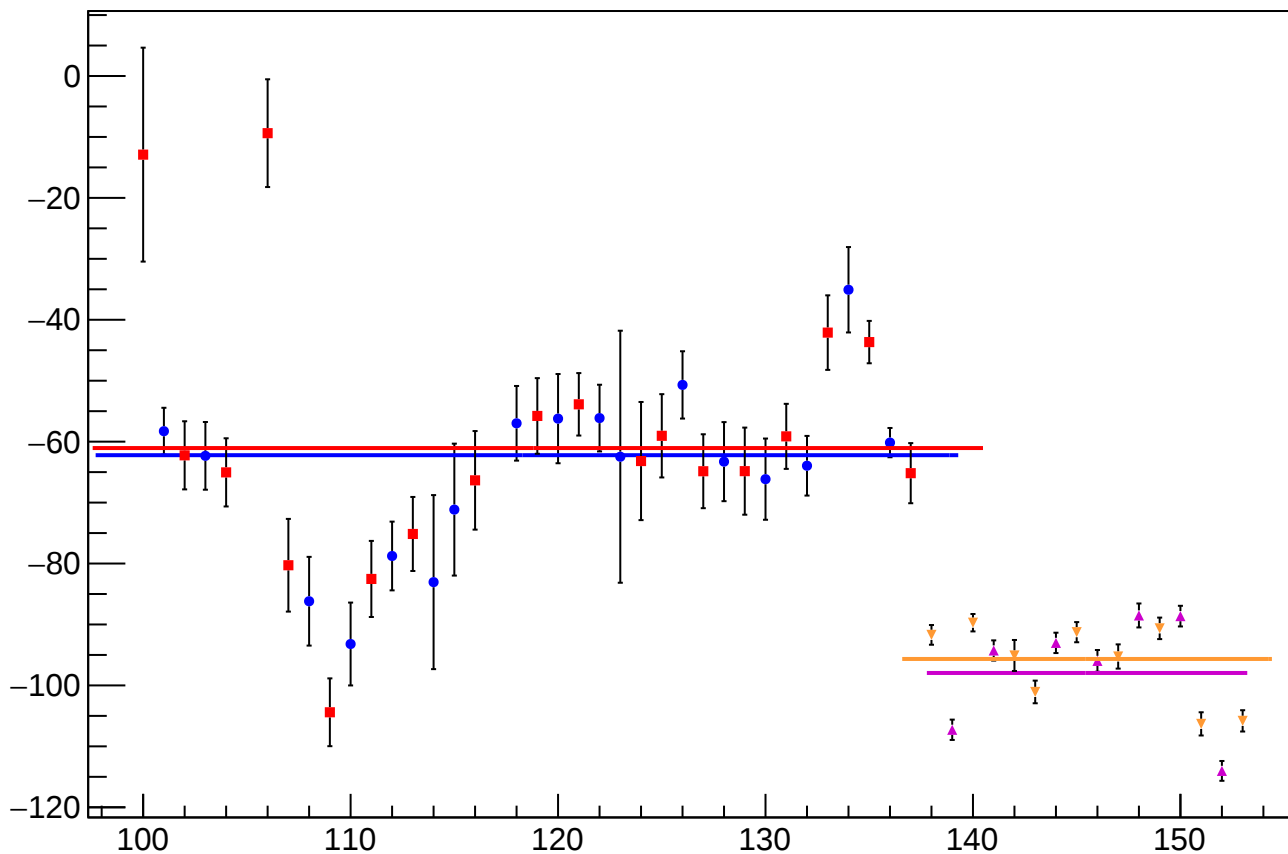
Left In:  $-42.424 \pm 0.459$   $\chi^2/\text{NDF}$ : 836.9/6

+ sign  $-41.585 \pm 0.355$   $\chi^2/\text{NDF}$ : 1291.3/25

All:  $-42.740 \pm 0.263$   $\chi^2/\text{NDF}$ : 3479.2/51

- sign  $-44.158 \pm 0.393$   $\chi^2/\text{NDF}$ : 2164.2/25

# 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:  $-95.660 \pm 0.591$   $\chi^2/\text{NDF}$ : 112.2/8

Right Out:  $-61.051 \pm 1.379$   $\chi^2/\text{NDF}$ : 166.0/18

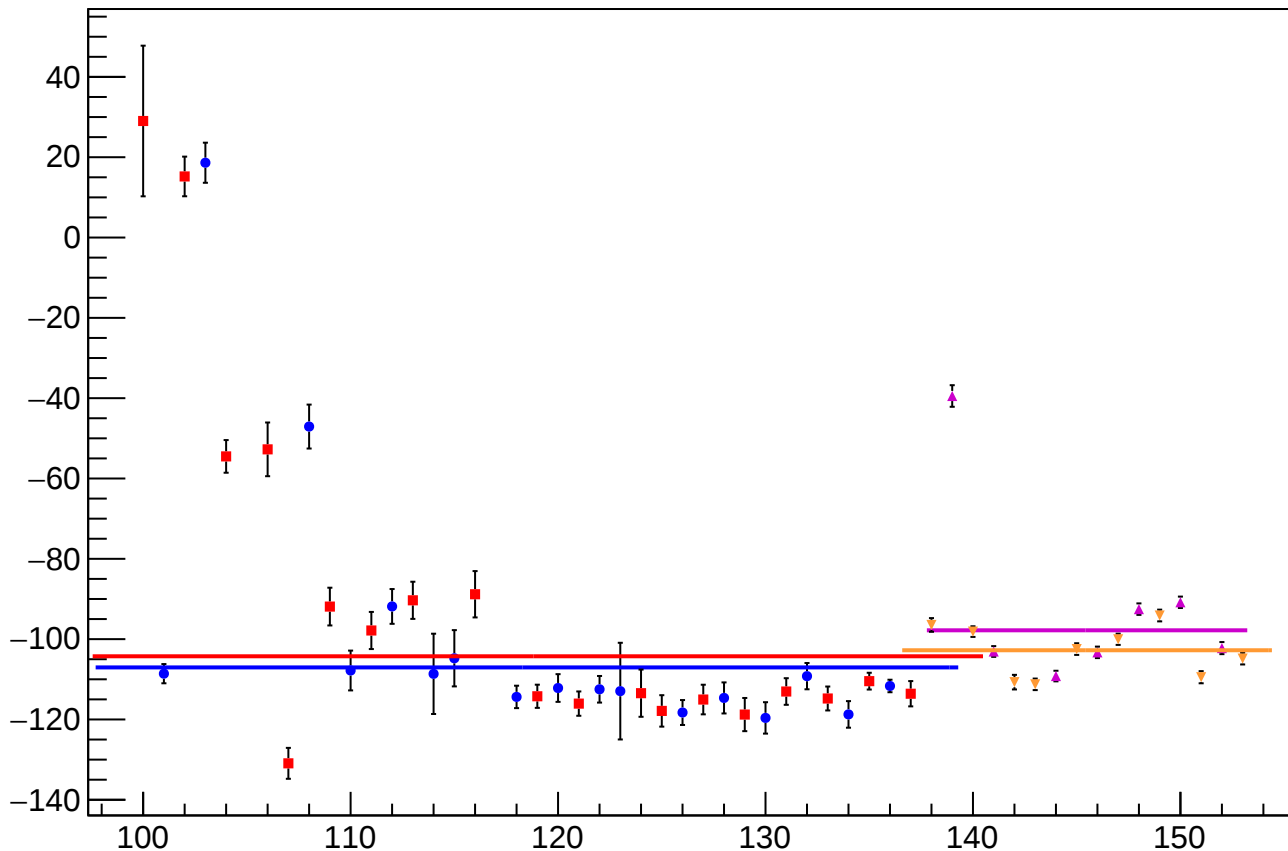
Left In:  $-97.958 \pm 0.648$   $\chi^2/\text{NDF}$ : 197.2/6

+ sign  $-90.010 \pm 0.539$   $\chi^2/\text{NDF}$ : 719.6/25

All:  $-90.592 \pm 0.397$   $\chi^2/\text{NDF}$ : 1672.3/51

- sign  $-91.280 \pm 0.586$   $\chi^2/\text{NDF}$ : 950.2/25

# 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:  $-102.769 \pm 0.497$   $\chi^2/\text{NDF}: 140.5/8$

Right Out:  $-104.269 \pm 0.860$   $\chi^2/\text{NDF}: 1018.0/18$

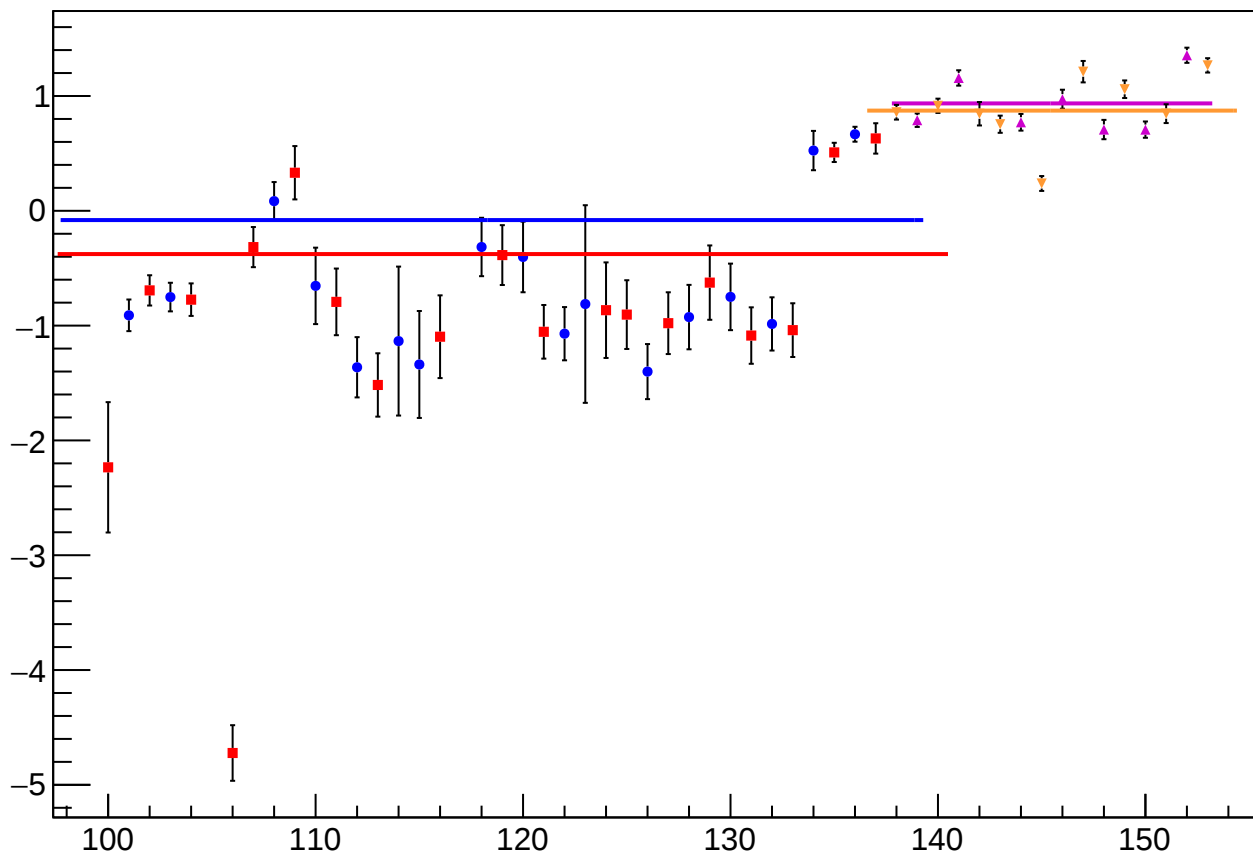
Left In:  $-97.800 \pm 0.560$   $\chi^2/\text{NDF}: 621.8/6$

+ sign  $-103.931 \pm 0.424$   $\chi^2/\text{NDF}: 988.4/25$

All:  $-102.044 \pm 0.315$   $\chi^2/\text{NDF}: 2712.2/51$

- sign  $-99.728 \pm 0.469$   $\chi^2/\text{NDF}: 1679.6/25$

# 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:  $0.873 \pm 0.024$   $\chi^2/\text{NDF}$ : 157.9/8

Right Out:  $-0.377 \pm 0.044$   $\chi^2/\text{NDF}$ : 583.6/18

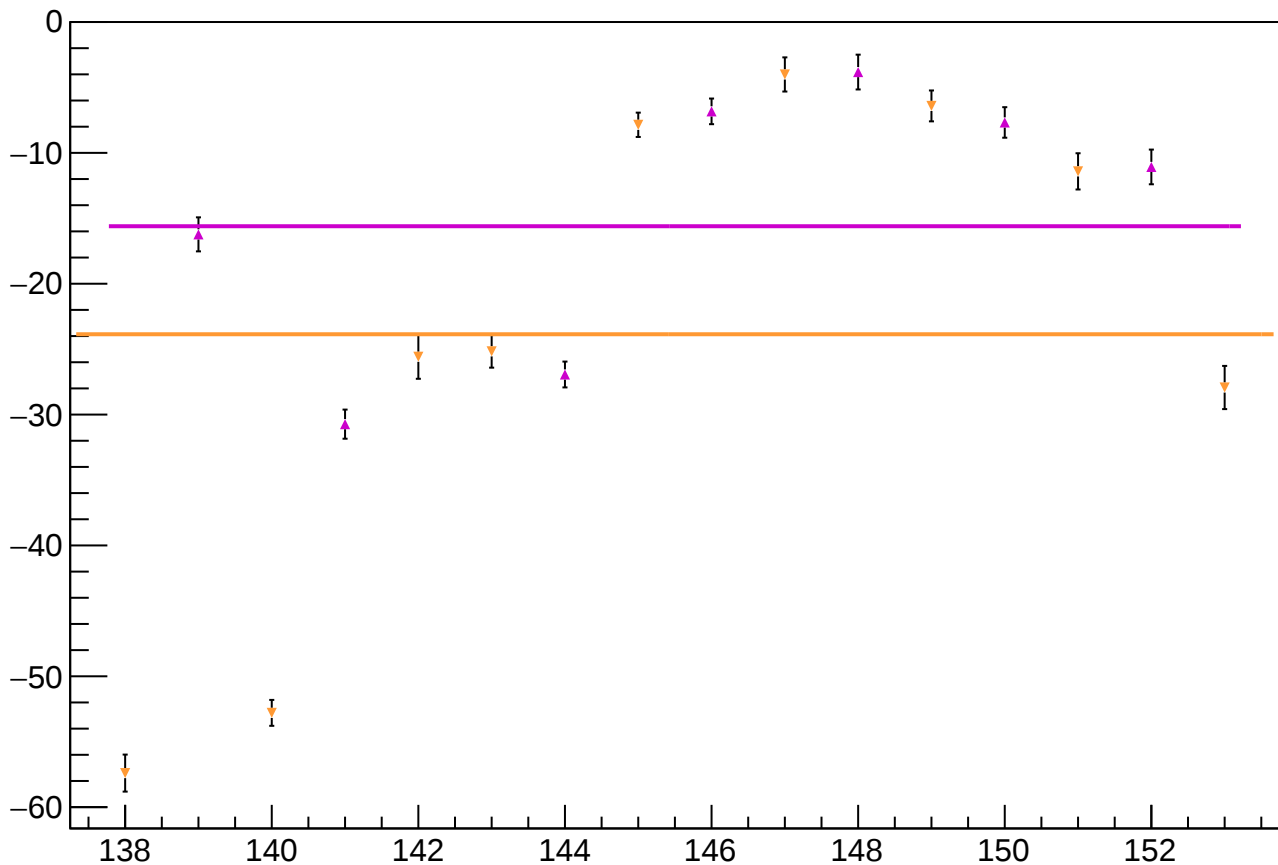
Left In:  $0.935 \pm 0.027$   $\chi^2/\text{NDF}$ : 80.3/6

+ sign  $0.637 \pm 0.021$   $\chi^2/\text{NDF}$ : 870.9/25

All:  $0.612 \pm 0.015$   $\chi^2/\text{NDF}$ : 2192.3/51

- sign  $0.583 \pm 0.023$   $\chi^2/\text{NDF}$ : 1318.3/25

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: -23.861+/-0.413  $\chi^2/\text{NDF}$ : 2251.5/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

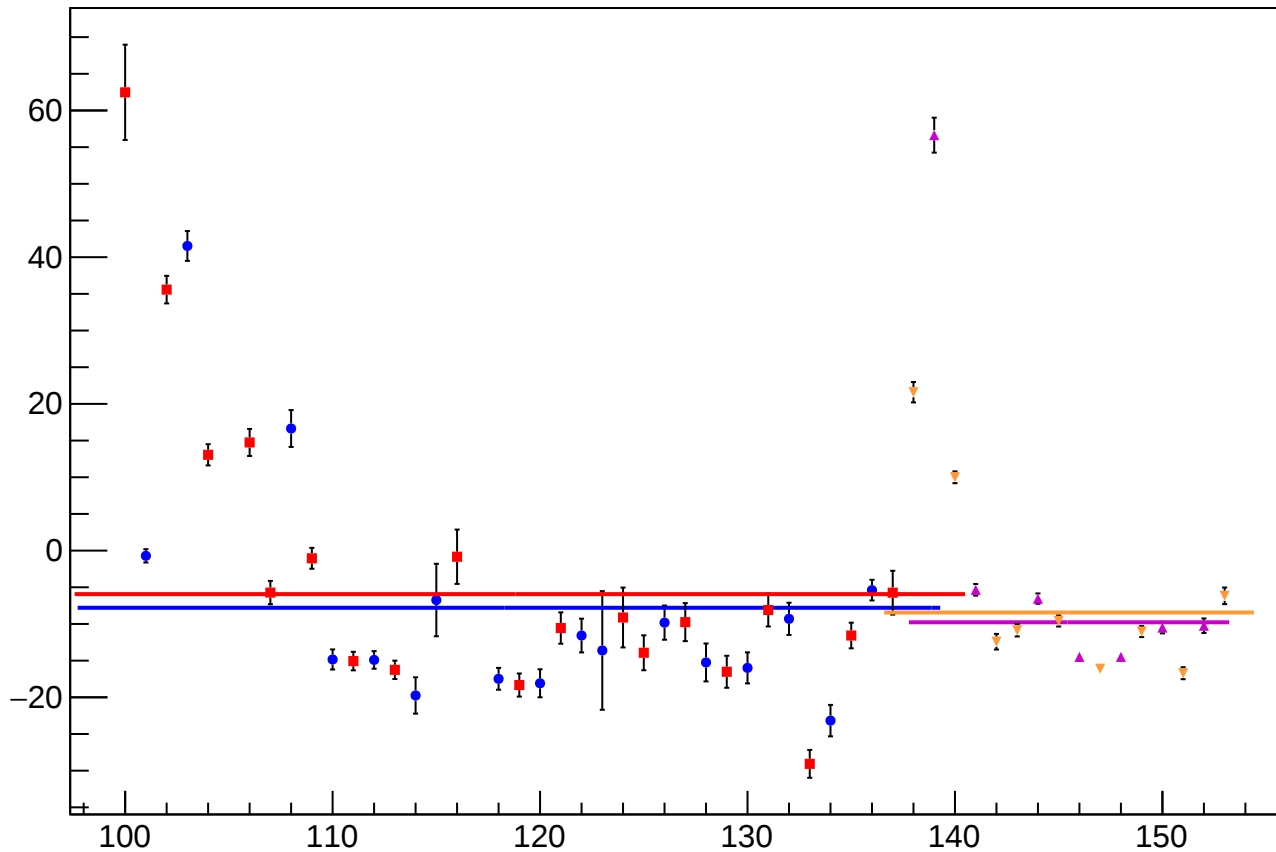
Left In: -15.606+/-0.433  $\chi^2/\text{NDF}$ : 533.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.929+/-0.299  $\chi^2/\text{NDF}$ : 2975.3/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.794 \pm 0.428$   $\chi^2/\text{NDF}$ : 982.7/16

Left Out:  $-8.439 \pm 0.282$   $\chi^2/\text{NDF}$ : 1278.3/8

Right Out:  $-5.932 \pm 0.429$   $\chi^2/\text{NDF}$ : 1294.2/18

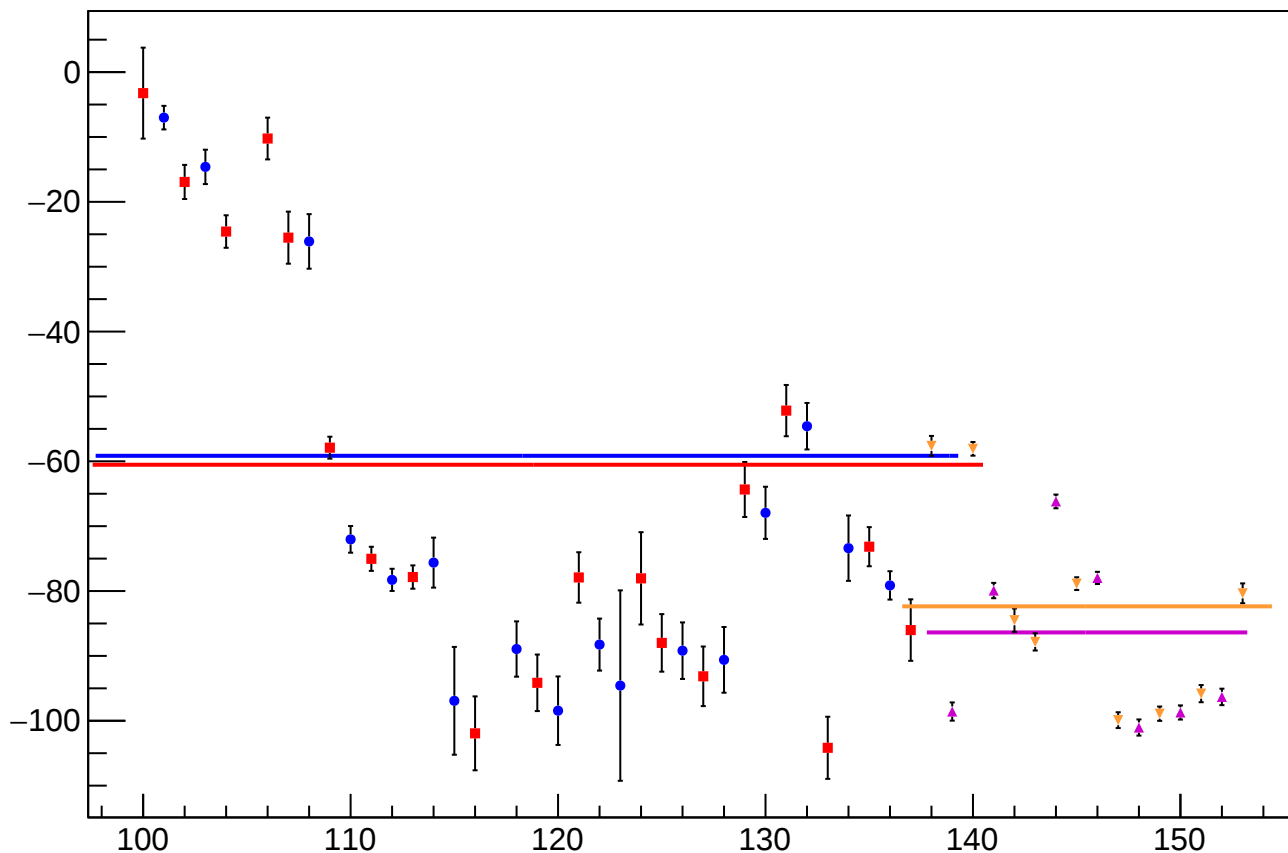
Left In:  $-9.772 \pm 0.296$   $\chi^2/\text{NDF}$ : 943.0/6

+ sign  $-8.244 \pm 0.235$   $\chi^2/\text{NDF}$ : 2262.6/25

All:  $-8.384 \pm 0.169$   $\chi^2/\text{NDF}$ : 4554.9/51

- sign  $-8.533 \pm 0.244$   $\chi^2/\text{NDF}$ : 2291.5/25

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.150 \pm 0.745$   $\chi^2/\text{NDF}$ : 1718.3/16

Left Out:  $-82.361 \pm 0.418$   $\chi^2/\text{NDF}$ : 1358.7/8

Right Out:  $-60.530 \pm 0.704$   $\chi^2/\text{NDF}$ : 1385.2/18

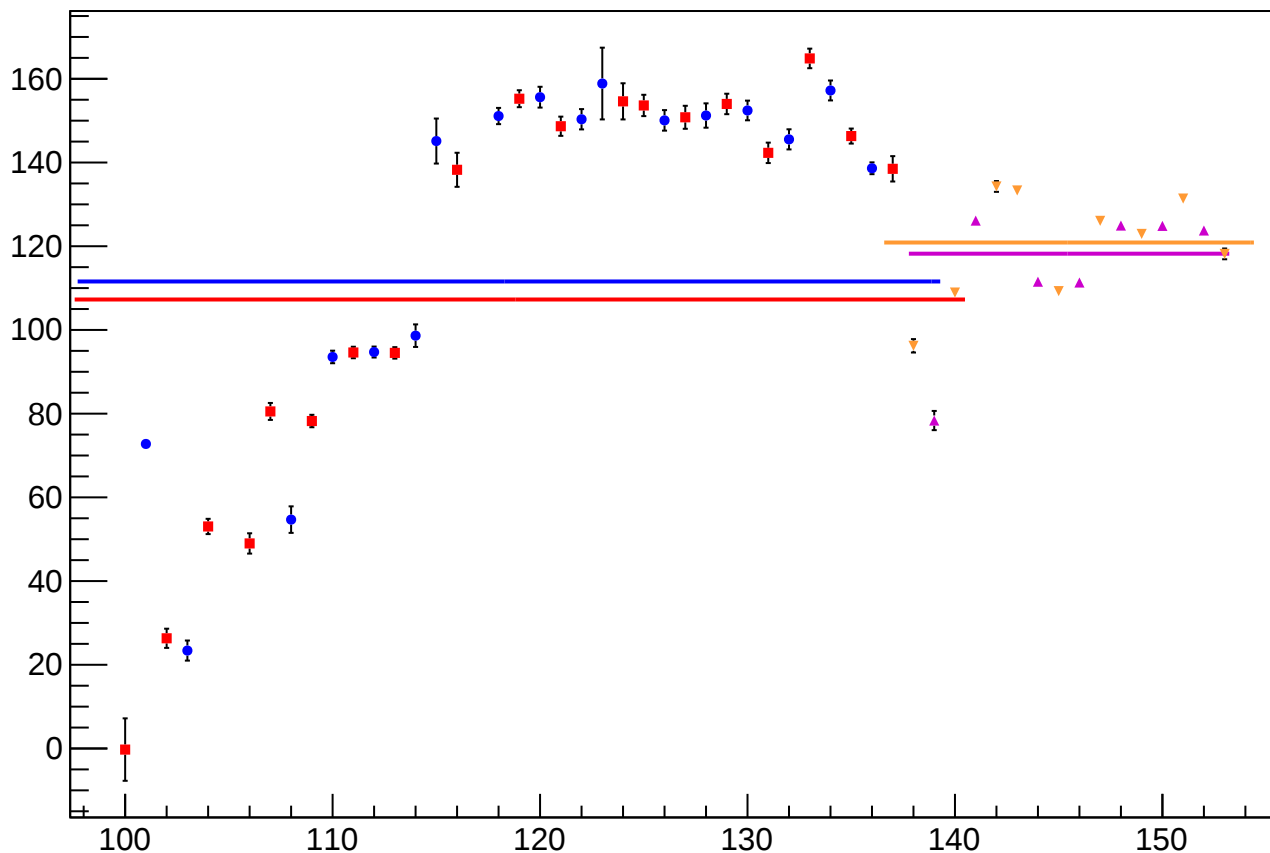
Left In:  $-86.381 \pm 0.432$   $\chi^2/\text{NDF}$ : 877.1/6

+ sign  $-76.807 \pm 0.365$   $\chi^2/\text{NDF}$ : 3814.9/25

All:  $-78.041 \pm 0.259$   $\chi^2/\text{NDF}$ : 7079.2/51

- sign  $-79.302 \pm 0.368$   $\chi^2/\text{NDF}$ : 3241.1/25

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: 120.888 $\pm$ 0.346  $\chi^2$ /NDF:963.3/8

Right Out: 107.273 $\pm$ 0.488  $\chi^2$ /NDF: 7044.9/18

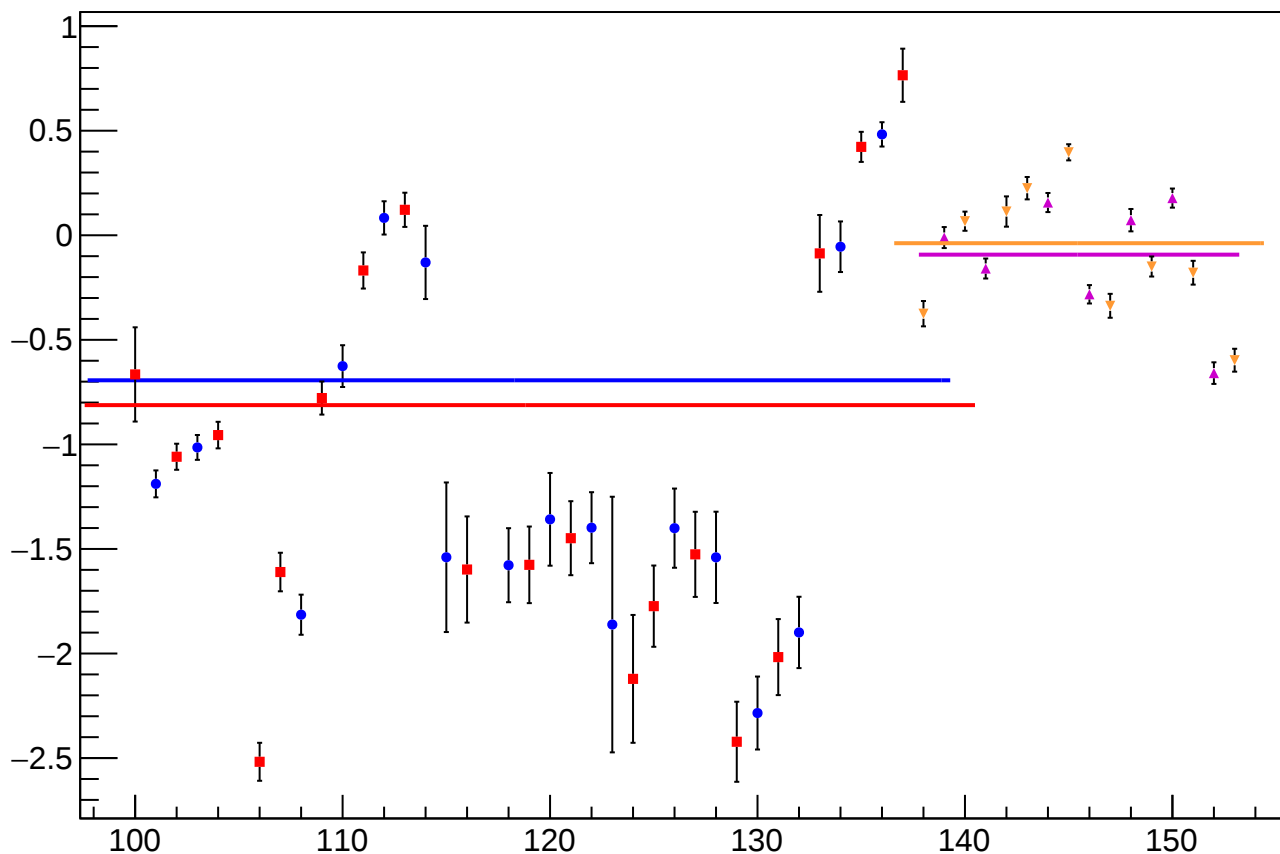
Left In: 118.219 $\pm$ 0.364  $\chi^2$ /NDF:645.2/6

+ sign 117.772 $\pm$ 0.282  $\chi^2$ /NDF: 7151.7/25

All: 116.096 $\pm$ 0.203  $\chi^2$ /NDF: 15238.6/51

- sign 114.305 $\pm$ 0.292  $\chi^2$ /NDF: 8013.8/25

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:  $-0.038 \pm 0.017$   $\chi^2/\text{NDF}$ : 335.0/8

Right Out:  $-0.812 \pm 0.024$   $\chi^2/\text{NDF}$ : 1309.2/18

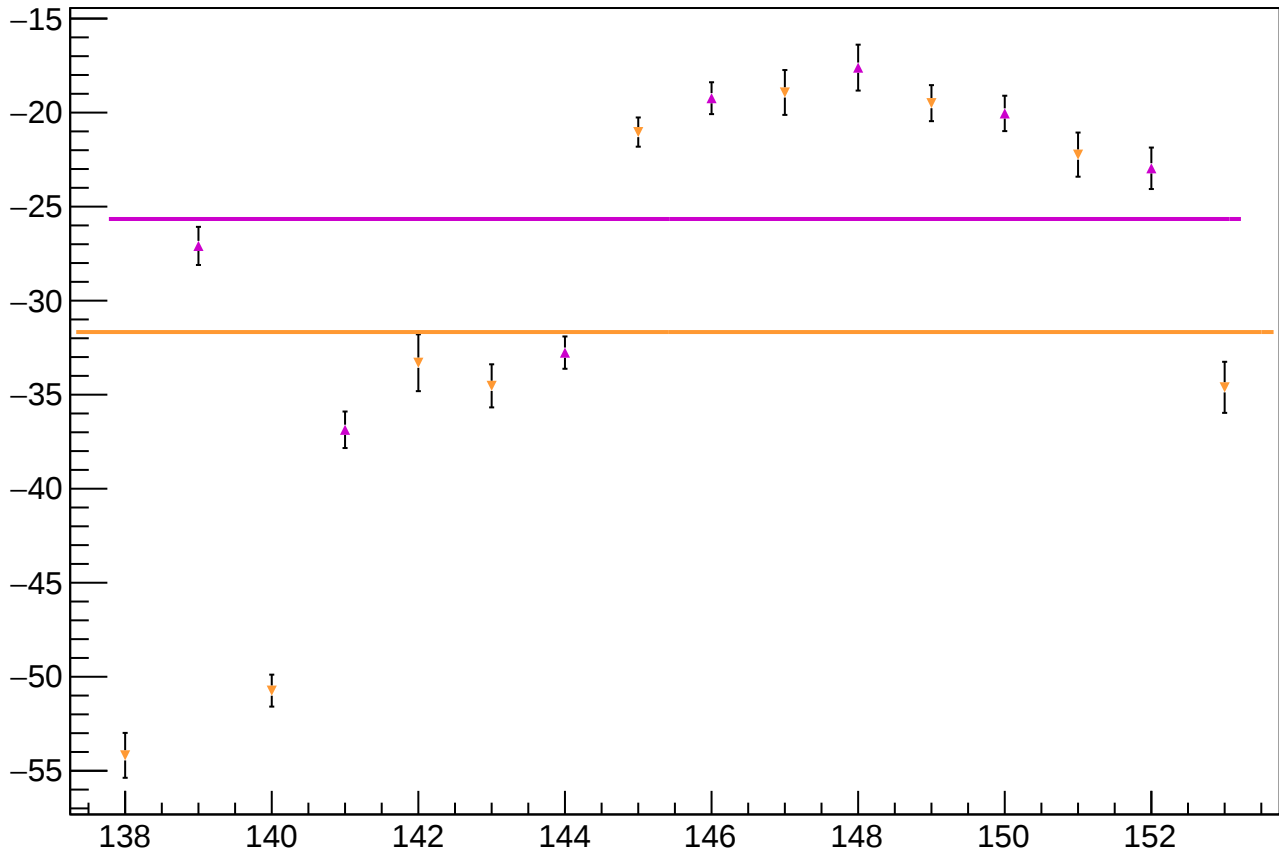
Left In:  $-0.093 \pm 0.018$   $\chi^2/\text{NDF}$ : 217.7/6

+ sign  $-0.241 \pm 0.014$   $\chi^2/\text{NDF}$ : 1771.1/25

All:  $-0.295 \pm 0.010$   $\chi^2/\text{NDF}$ : 3888.0/51

- sign  $-0.350 \pm 0.015$   $\chi^2/\text{NDF}$ : 2088.6/25

# 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: -31.669+/-0.353  $\chi^2/\text{NDF}$ :1398.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

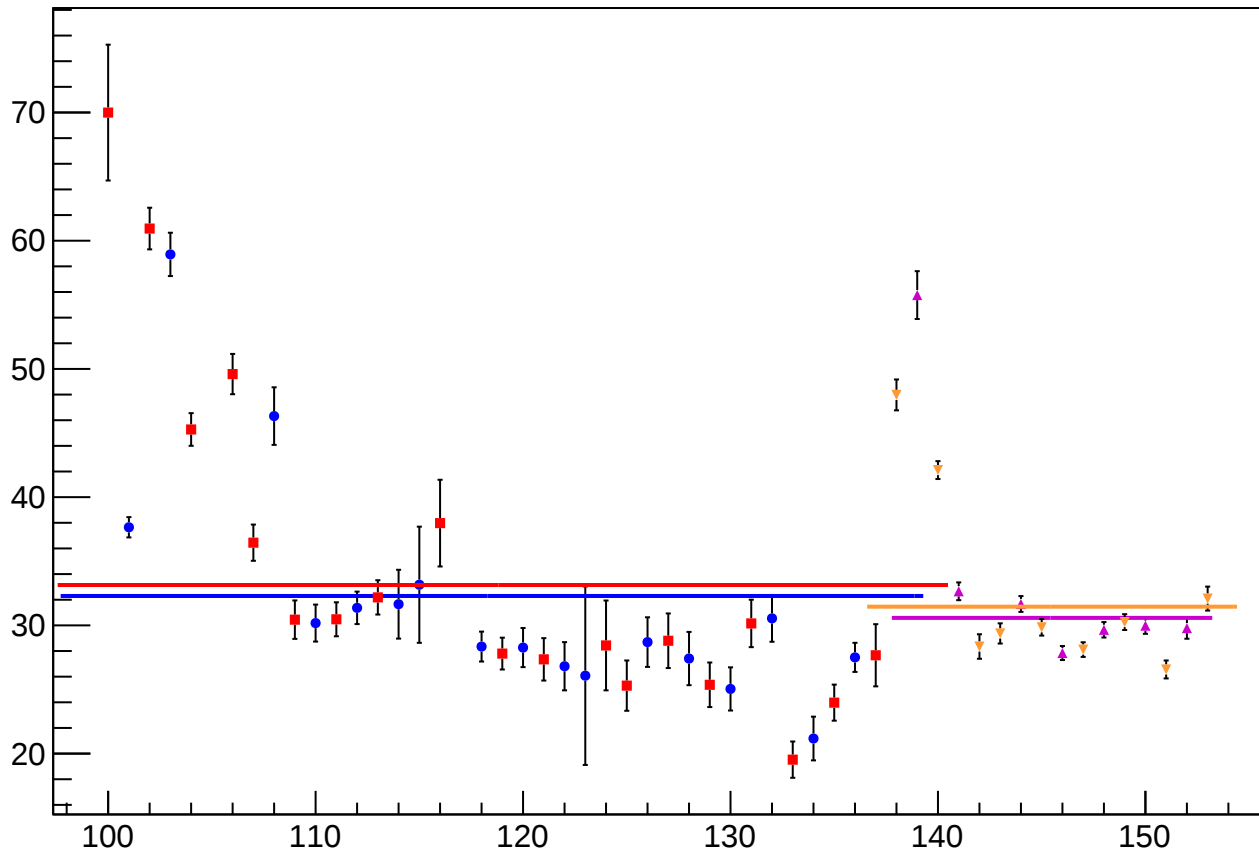
Left In: -25.658+/-0.367  $\chi^2/\text{NDF}$ :346.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -28.780+/-0.255  $\chi^2/\text{NDF}$ : 1883.9/15

- 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  $\chi^2$ /NDF: 452.5/16

Left Out: 31.459 $\pm$ 0.245  $\chi^2$ /NDF: 532.6/8

Right Out: 33.149 $\pm$ 0.379  $\chi^2$ /NDF: 772.6/18

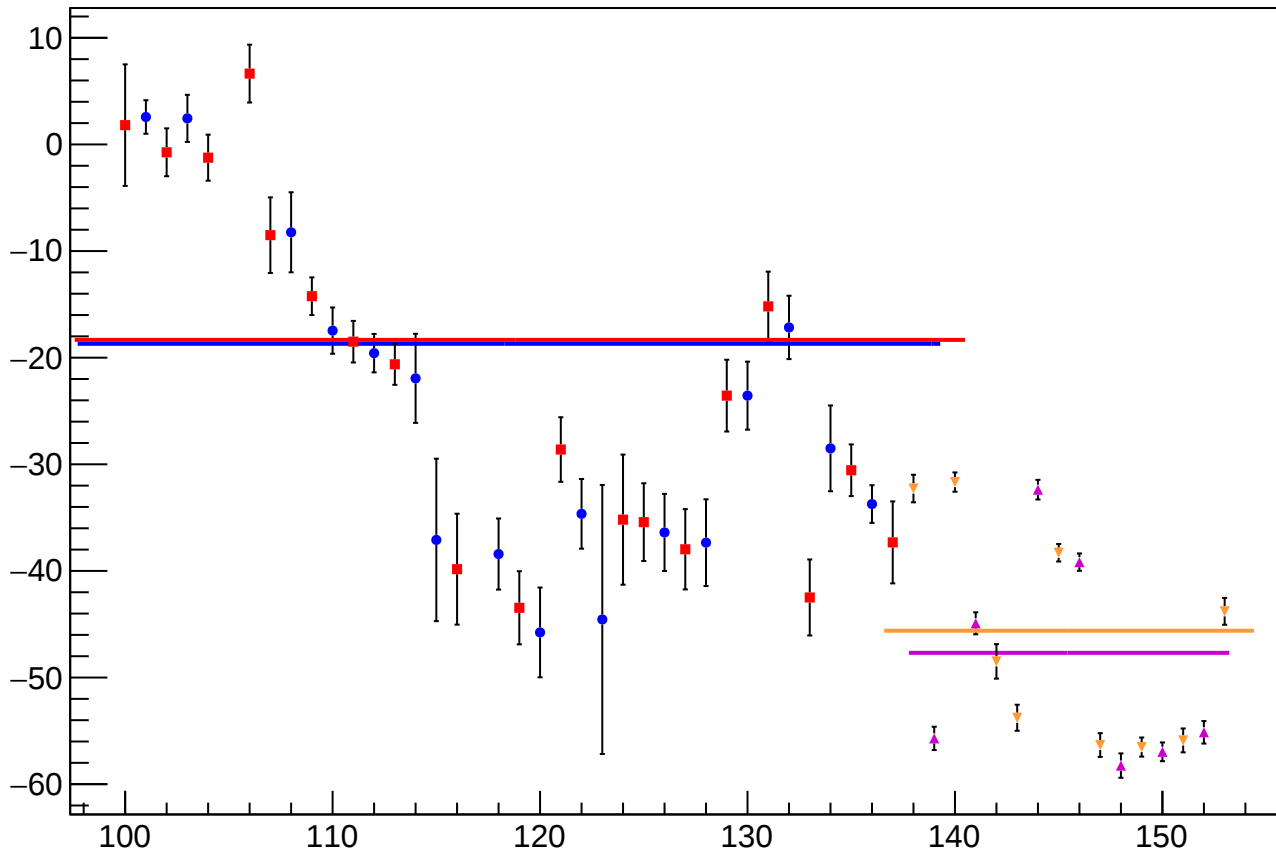
Left In: 30.584 $\pm$ 0.258  $\chi^2$ /NDF: 223.7/6

+ sign 31.709 $\pm$ 0.205  $\chi^2$ /NDF: 988.6/25

All: 31.559 $\pm$ 0.148  $\chi^2$ /NDF: 2017.4/51

- sign 31.397 $\pm$ 0.213  $\chi^2$ /NDF: 1027.6/25

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-18.699 \pm 0.667$   $\chi^2/\text{NDF}: 519.1/16$

Left Out:  $-45.609 \pm 0.357$   $\chi^2/\text{NDF}: 798.0/8$

Right Out:  $-18.330 \pm 0.643$   $\chi^2/\text{NDF}: 474.0/18$

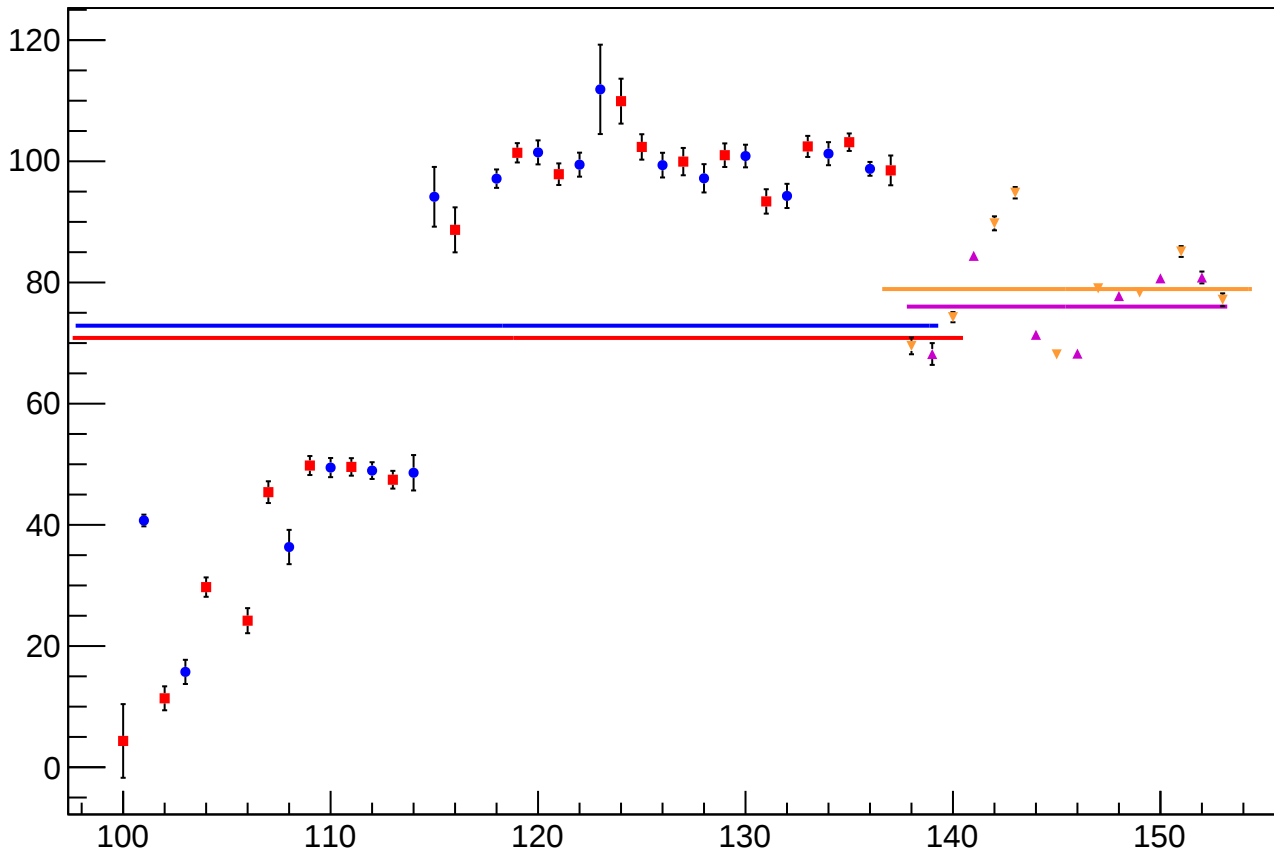
Left In:  $-47.683 \pm 0.367$   $\chi^2/\text{NDF}: 692.9/6$

+ sign  $-39.603 \pm 0.315$   $\chi^2/\text{NDF}: 2583.3/25$

All:  $-40.031 \pm 0.224$   $\chi^2/\text{NDF}: 5323.7/51$

- sign  $-40.470 \pm 0.319$   $\chi^2/\text{NDF}: 2736.7/25$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.870 $\pm$ 0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 78.916 $\pm$ 0.299  $\chi^2$ /NDF: 711.5/8

Right Out: 70.851 $\pm$ 0.433  $\chi^2$ /NDF: 5495.4/18

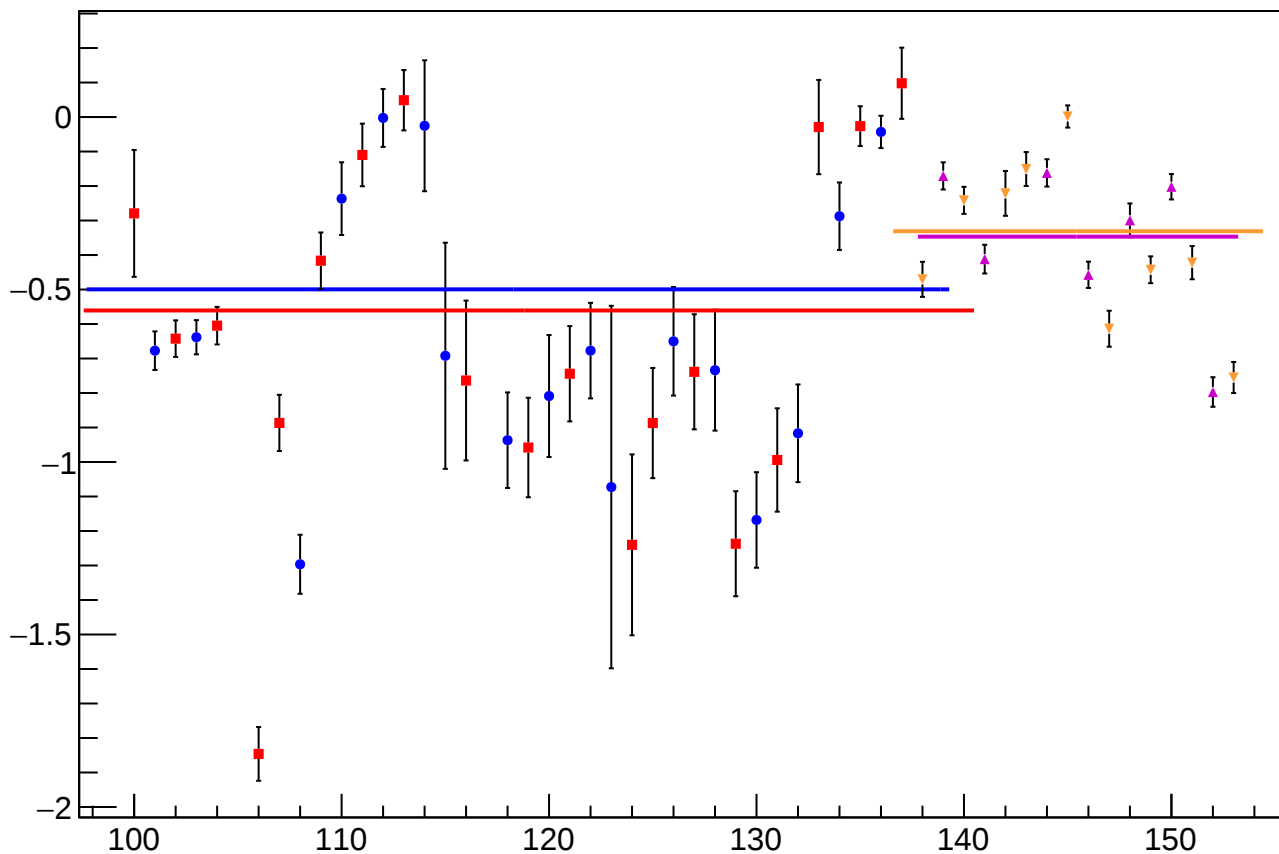
Left In: 76.021 $\pm$ 0.314  $\chi^2$ /NDF: 361.3/6

+ sign 76.927 $\pm$ 0.245  $\chi^2$ /NDF: 5573.4/25

All: 75.635 $\pm$ 0.176  $\chi^2$ /NDF: 11581.7/51

- sign 74.240 $\pm$ 0.254  $\chi^2$ /NDF: 5950.2/25

# 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:  $-0.331 \pm 0.015$   $\chi^2/\text{NDF}$ : 265.8/8

Right Out:  $-0.561 \pm 0.021$   $\chi^2/\text{NDF}$ : 561.8/18

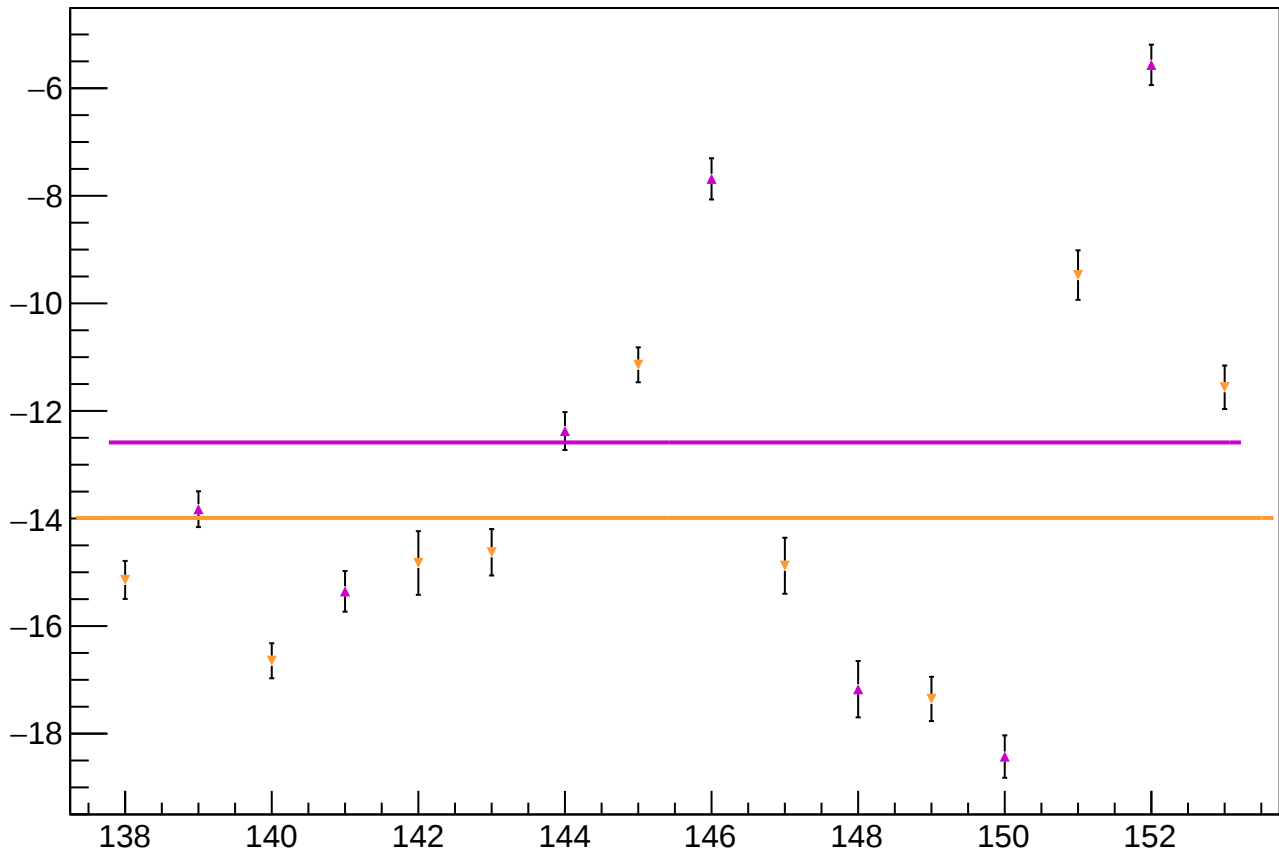
Left In:  $-0.347 \pm 0.015$   $\chi^2/\text{NDF}$ : 179.2/6

+ sign  $-0.382 \pm 0.012$   $\chi^2/\text{NDF}$ : 608.1/25

All:  $-0.401 \pm 0.009$   $\chi^2/\text{NDF}$ : 1419.7/51

- sign  $-0.419 \pm 0.012$   $\chi^2/\text{NDF}$ : 807.0/25

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.990 $\pm$ 0.134  $\chi^2$ /NDF:360.5/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

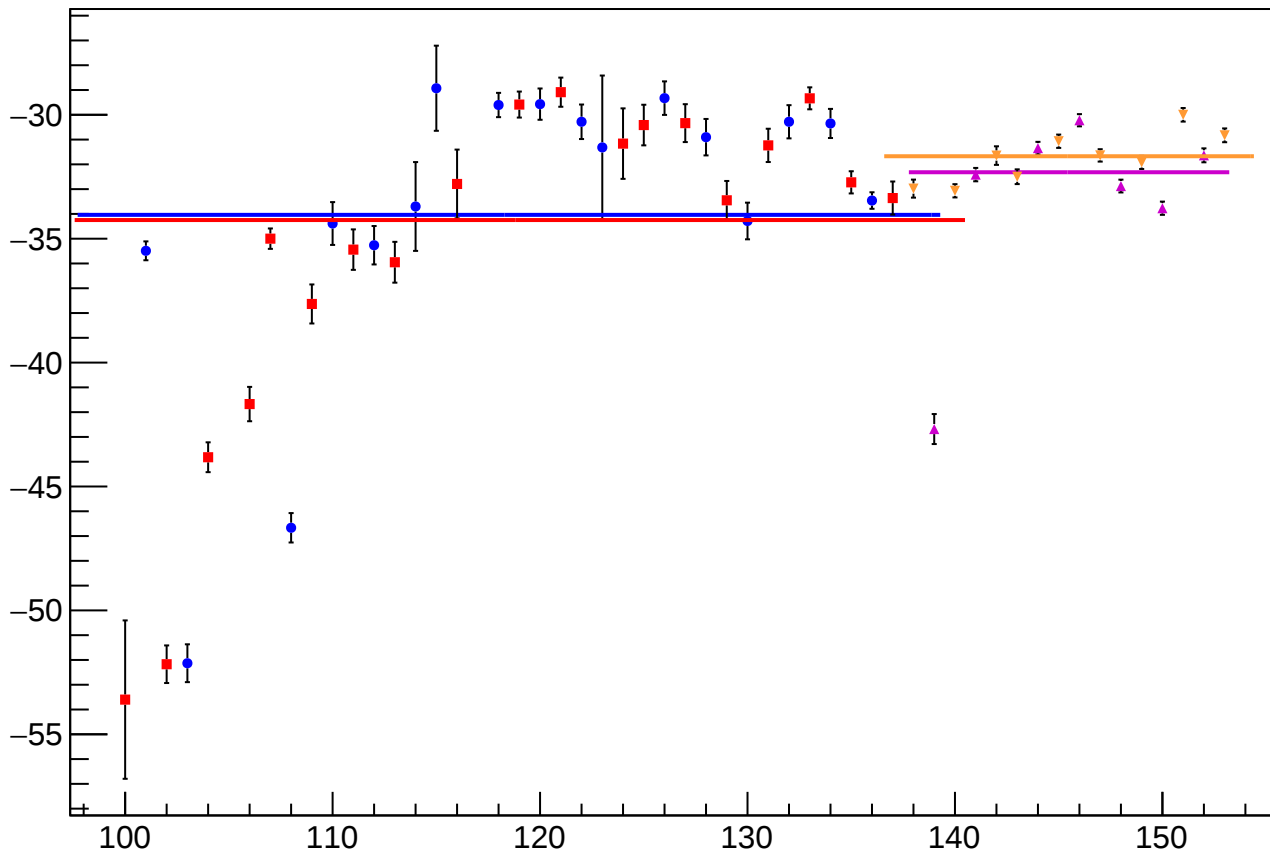
Left In: -12.586 $\pm$ 0.144  $\chi^2$ /NDF:877.1/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.339 $\pm$ 0.098  $\chi^2$ /NDF: 1288.4/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-34.038 \pm 0.151$   $\chi^2/\text{NDF}$ : 1342.9/16

Left Out:  $-31.673 \pm 0.095$   $\chi^2/\text{NDF}$ : 100.1/8

Right Out:  $-34.248 \pm 0.151$   $\chi^2/\text{NDF}$ : 1357.5/18

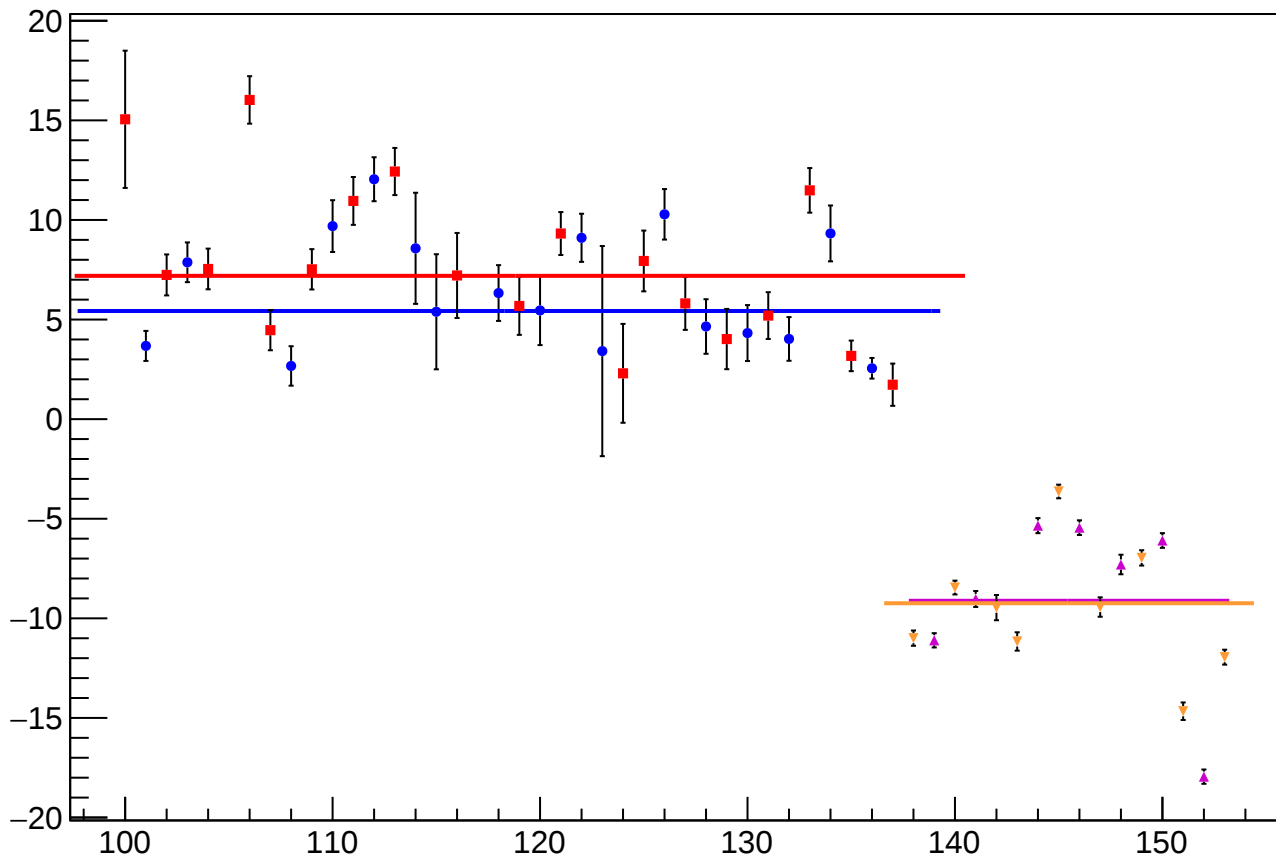
Left In:  $-32.318 \pm 0.105$   $\chi^2/\text{NDF}$ : 420.5/6

+ sign  $-32.347 \pm 0.081$   $\chi^2/\text{NDF}$ : 1618.7/25

All:  $-32.629 \pm 0.059$   $\chi^2/\text{NDF}$ : 3533.0/51

- sign  $-32.952 \pm 0.086$   $\chi^2/\text{NDF}$ : 1888.1/25

# 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:  $-9.243 \pm 0.136$   $\chi^2/\text{NDF}$ : 550.1/8

Right Out:  $7.195 \pm 0.274$   $\chi^2/\text{NDF}$ : 183.1/18

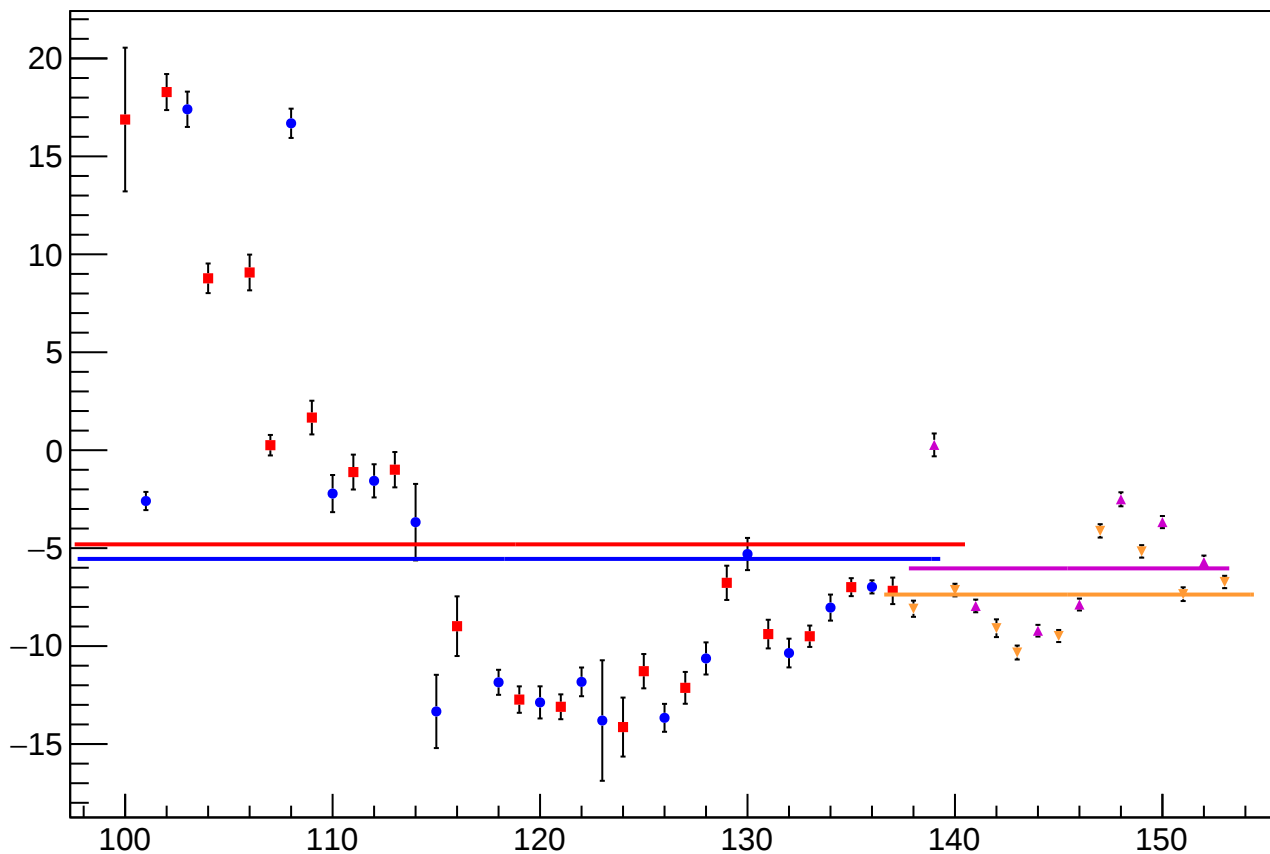
Left In:  $-9.119 \pm 0.145$   $\chi^2/\text{NDF}$ : 915.7/6

+ sign  $-6.272 \pm 0.121$   $\chi^2/\text{NDF}$ : 3039.6/25

All:  $-5.932 \pm 0.088$   $\chi^2/\text{NDF}$ : 6923.5/51

- sign  $-5.552 \pm 0.128$   $\chi^2/\text{NDF}$ : 3867.3/25

# 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:  $-7.369 \pm 0.115$   $\chi^2/\text{NDF}: 275.8/8$

Right Out:  $-4.806 \pm 0.173$   $\chi^2/\text{NDF}: 2048.2/18$

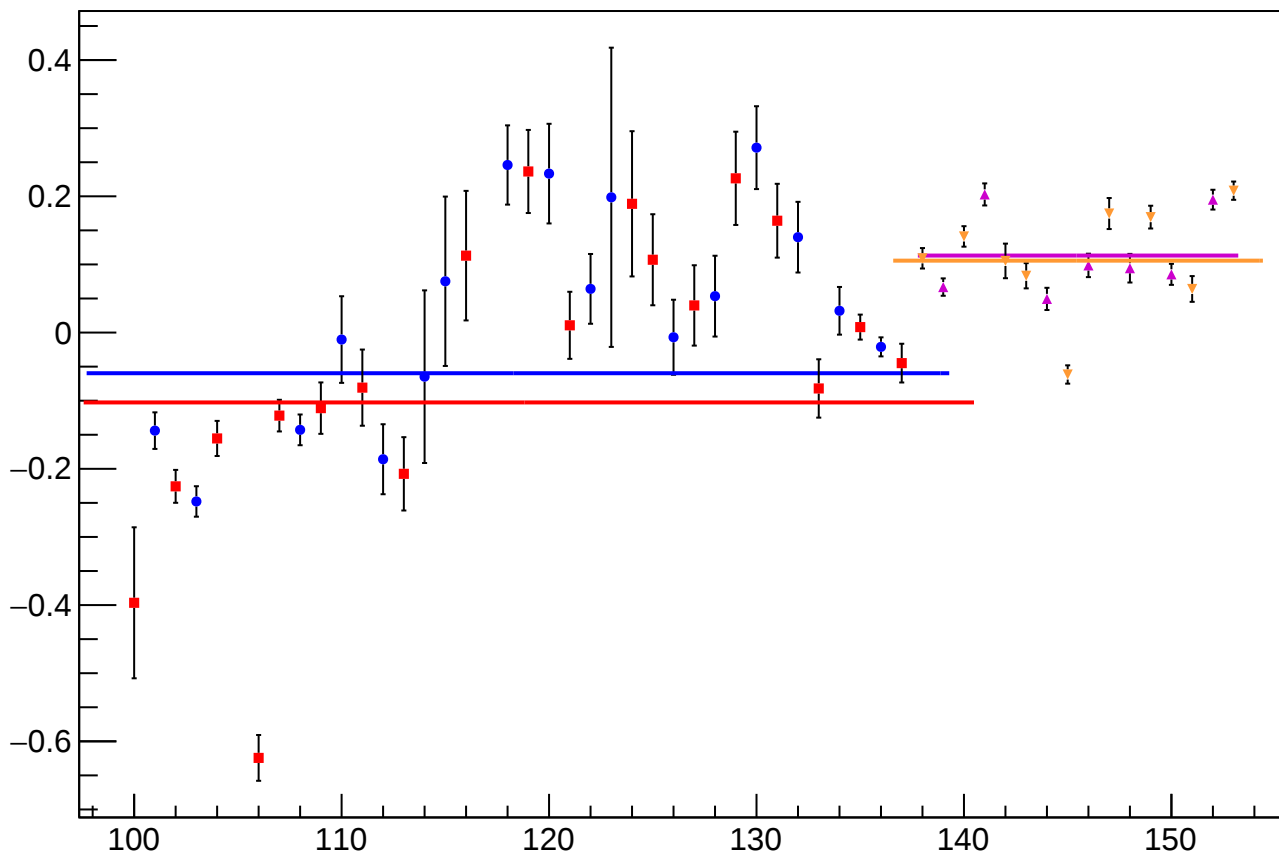
Left In:  $-6.033 \pm 0.127$   $\chi^2/\text{NDF}: 457.9/6$

+ sign  $-6.796 \pm 0.095$   $\chi^2/\text{NDF}: 2480.7/25$

All:  $-6.241 \pm 0.070$   $\chi^2/\text{NDF}: 5092.3/51$

- sign  $-5.601 \pm 0.102$   $\chi^2/\text{NDF}: 2538.8/25$

# 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:  $0.106 \pm 0.006$   $\chi^2/\text{NDF}$ : 248.9/8

Right Out:  $-0.103 \pm 0.008$   $\chi^2/\text{NDF}$ : 435.4/18

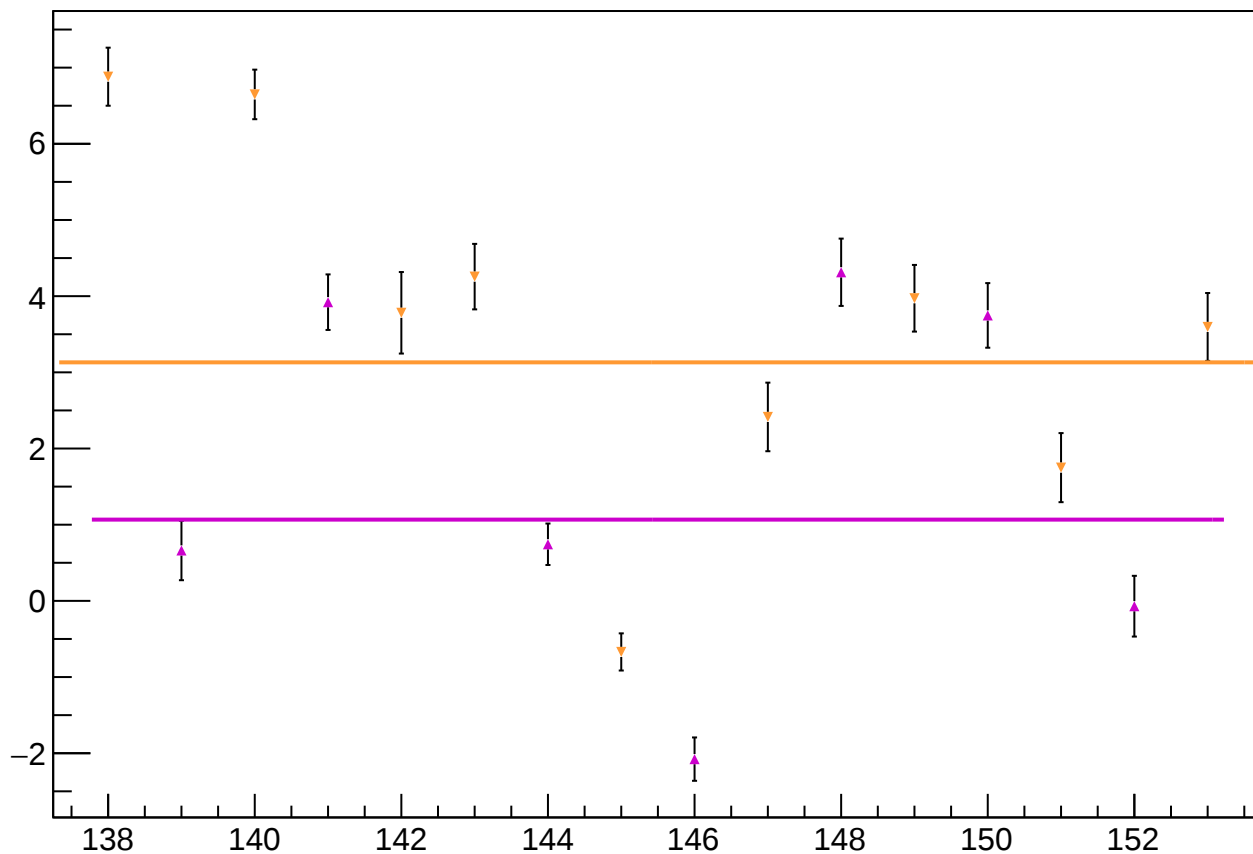
Left In:  $0.113 \pm 0.006$   $\chi^2/\text{NDF}$ : 95.7/6

+ sign  $0.056 \pm 0.005$   $\chi^2/\text{NDF}$ : 735.8/25

All:  $0.049 \pm 0.003$   $\chi^2/\text{NDF}$ : 1709.2/51

- sign  $0.041 \pm 0.005$   $\chi^2/\text{NDF}$ : 968.8/25

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.131+/-0.127  $\chi^2/\text{NDF}$ : 481.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

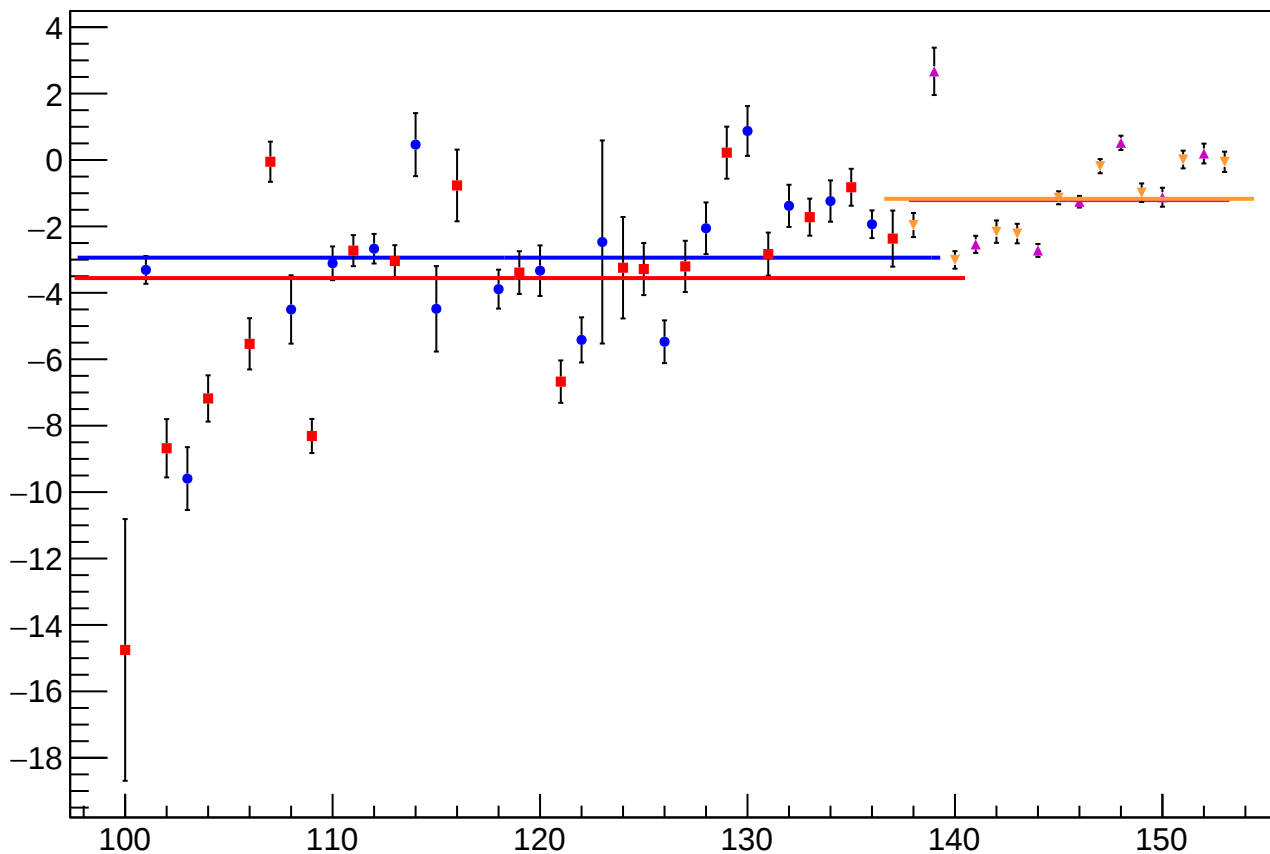
Left In: 1.067+/-0.133  $\chi^2/\text{NDF}$ : 288.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.144+/-0.092  $\chi^2/\text{NDF}$ : 896.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.941 \pm 0.154$   $\chi^2/\text{NDF}$ : 145.6/16

Left Out:  $-1.168 \pm 0.088$   $\chi^2/\text{NDF}$ : 129.2/8

Right Out:  $-3.556 \pm 0.155$   $\chi^2/\text{NDF}$ : 291.6/18

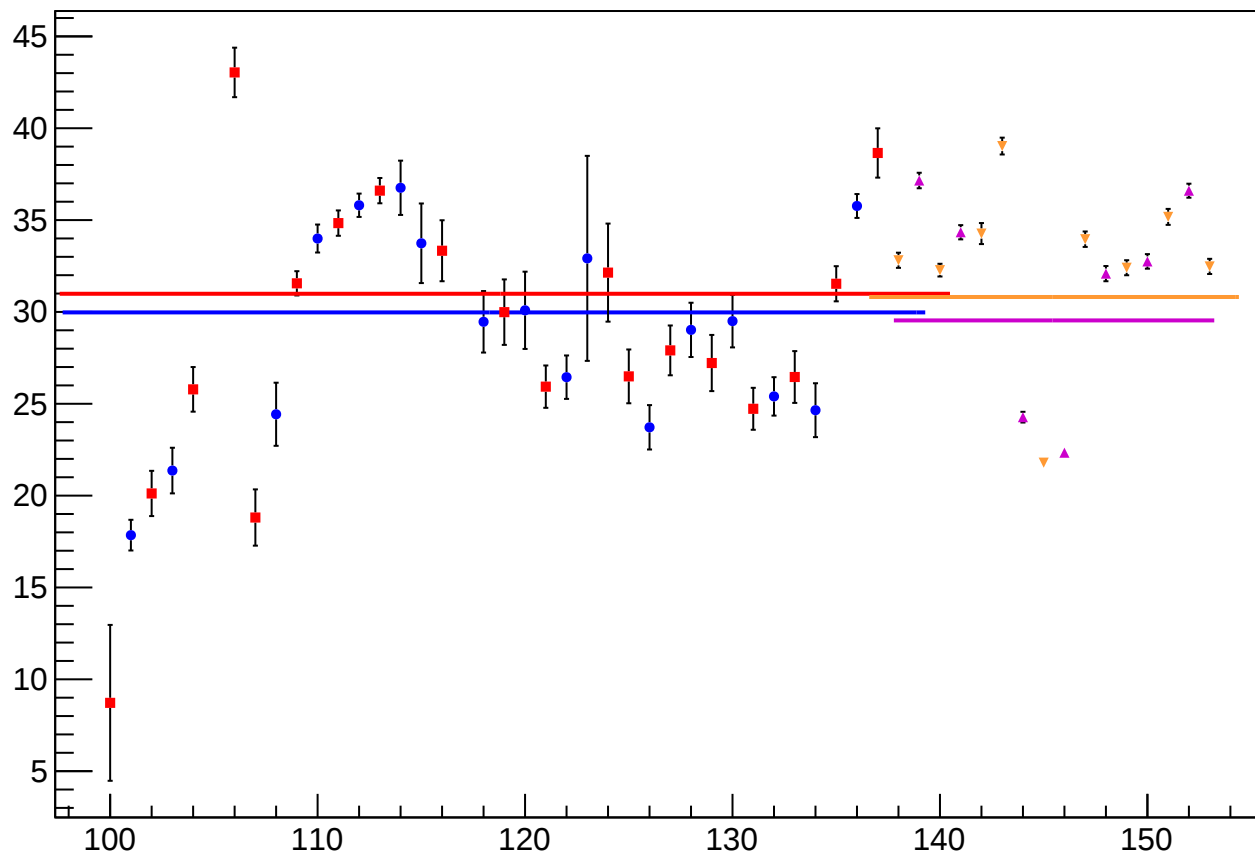
Left In:  $-1.208 \pm 0.091$   $\chi^2/\text{NDF}$ : 203.3/6

+ sign  $-1.607 \pm 0.077$   $\chi^2/\text{NDF}$ : 374.2/25

All:  $-1.707 \pm 0.055$   $\chi^2/\text{NDF}$ : 1044.2/51

- sign  $-1.810 \pm 0.078$   $\chi^2/\text{NDF}$ : 666.6/25

# 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: 30.813 $\pm$ 0.130  $\chi^2$ /NDF:1793.2/8

Right Out: 30.989 $\pm$ 0.260  $\chi^2$ /NDF: 481.0/18

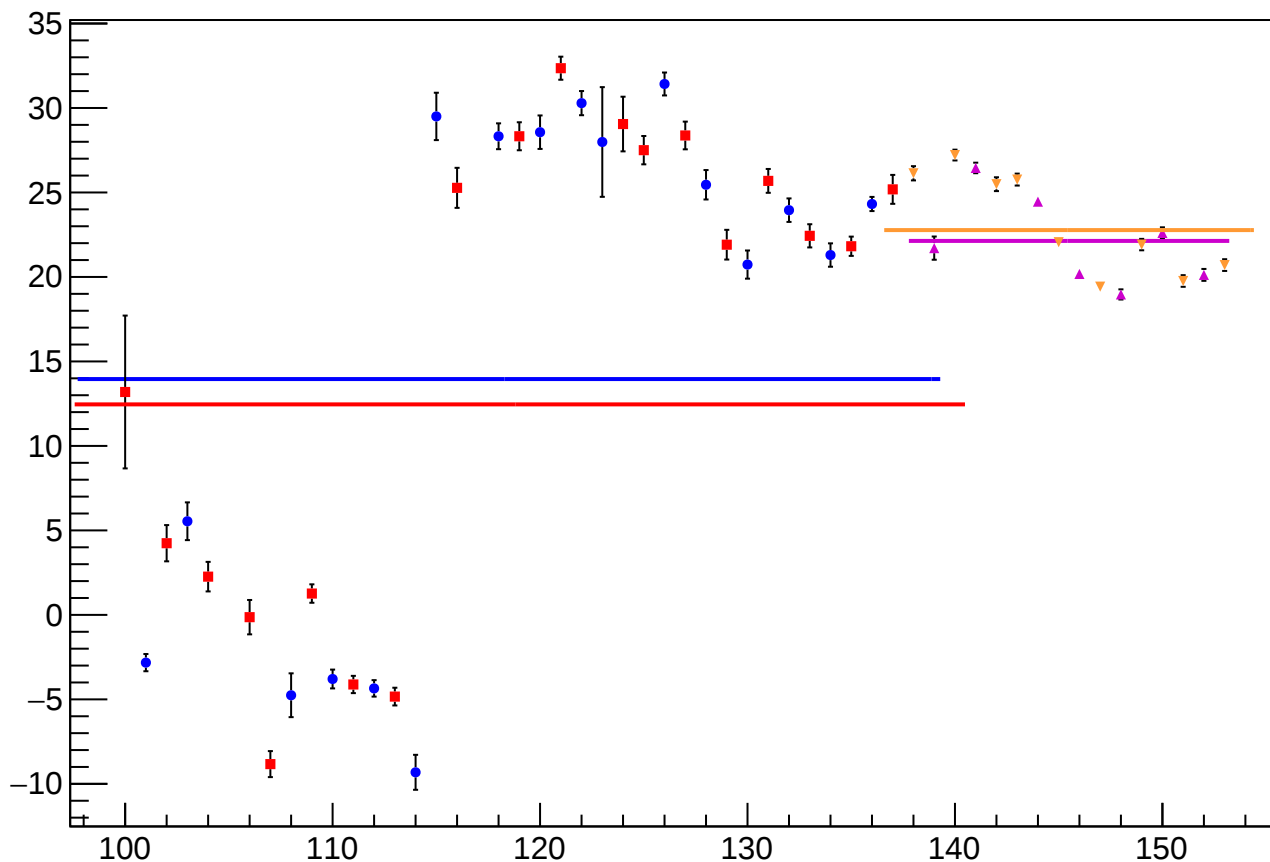
Left In: 29.538 $\pm$ 0.133  $\chi^2$ /NDF:1946.7/6

+ sign 30.653 $\pm$ 0.117  $\chi^2$ /NDF: 2355.1/25

All: 30.253 $\pm$ 0.083  $\chi^2$ /NDF: 4831.5/51

- sign 29.839 $\pm$ 0.118  $\chi^2$ /NDF: 2452.4/25

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.957 $\pm$ 0.172  $\chi^2$ /NDF: 7348.7/16

Left Out: 22.773 $\pm$ 0.108  $\chi^2$ /NDF:629.8/8

Right Out: 12.458 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/18

Left In: 22.133 $\pm$ 0.112  $\chi^2$ /NDF:518.2/6

+ sign 20.289 $\pm$ 0.091  $\chi^2$ /NDF: 9858.8/25

All: 19.807 $\pm$ 0.066  $\chi^2$ /NDF: 19609.7/51

- sign 19.299 $\pm$ 0.094  $\chi^2$ /NDF: 9693.9/25

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:  $-0.091 \pm 0.005$   $\chi^2/\text{NDF}$ : 73.5/8

Right Out:  $0.139 \pm 0.009$   $\chi^2/\text{NDF}$ : 3016.4/18

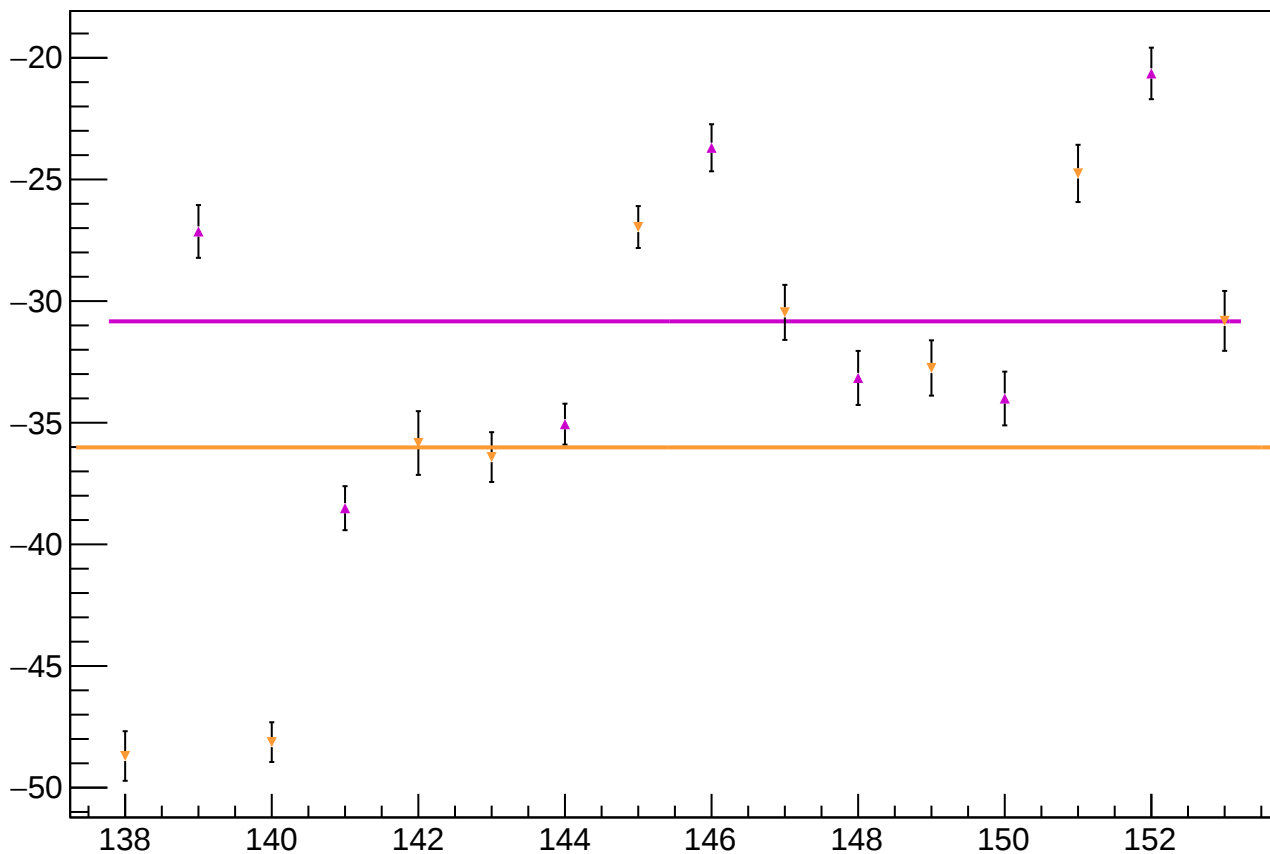
Left In:  $-0.080 \pm 0.006$   $\chi^2/\text{NDF}$ : 49.4/6

+ sign  $-0.020 \pm 0.005$   $\chi^2/\text{NDF}$ : 1678.1/25

All:  $-0.020 \pm 0.003$   $\chi^2/\text{NDF}$ : 5158.1/51

- sign  $-0.021 \pm 0.005$   $\chi^2/\text{NDF}$ : 3479.9/25

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -36.013 $\pm$ 0.347  $\chi^2$ /NDF:627.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

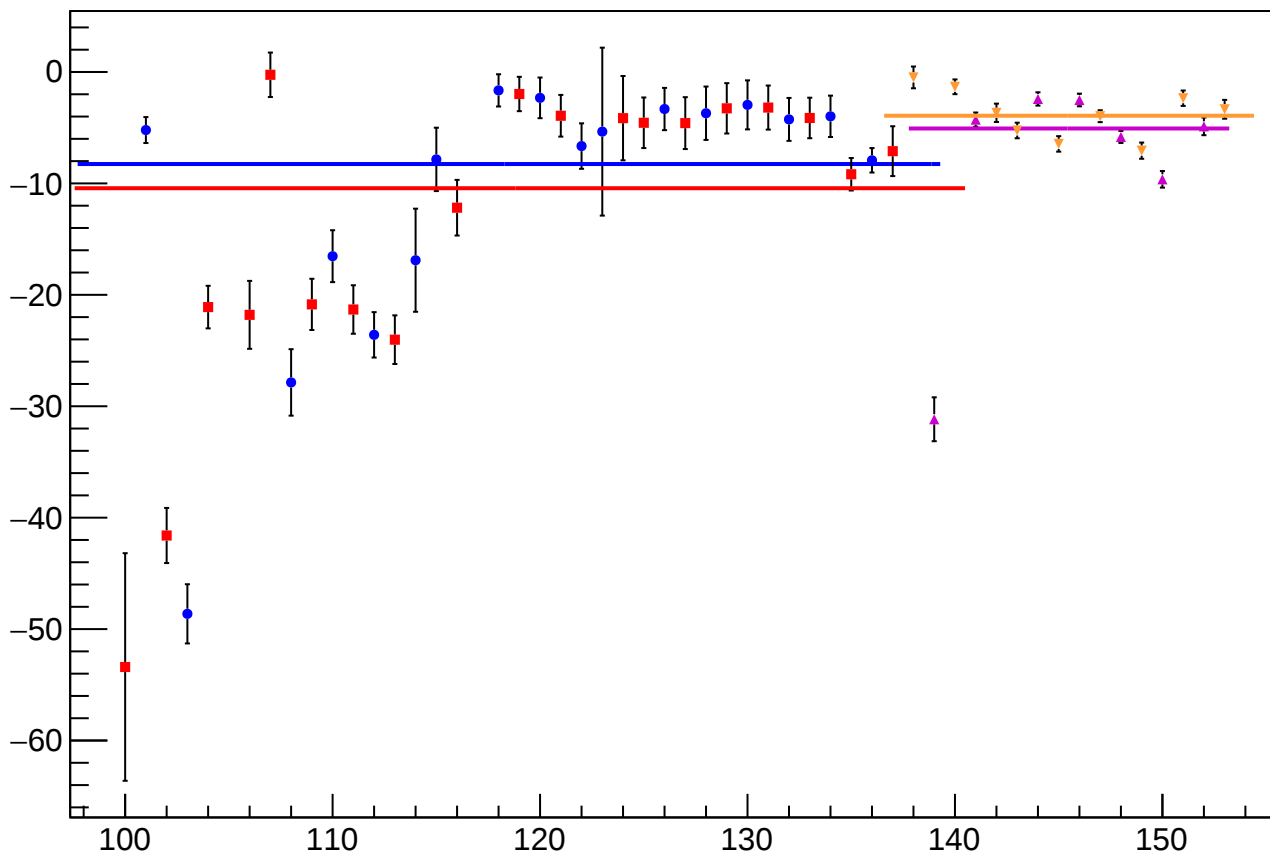
Left In: -30.832 $\pm$ 0.376  $\chi^2$ /NDF:268.6/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.627 $\pm$ 0.255  $\chi^2$ /NDF: 998.9/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-3.926 \pm 0.237$   $\chi^2/\text{NDF}$ : 68.9/8

Right Out:  $-10.433 \pm 0.491$   $\chi^2/\text{NDF}$ : 428.7/18

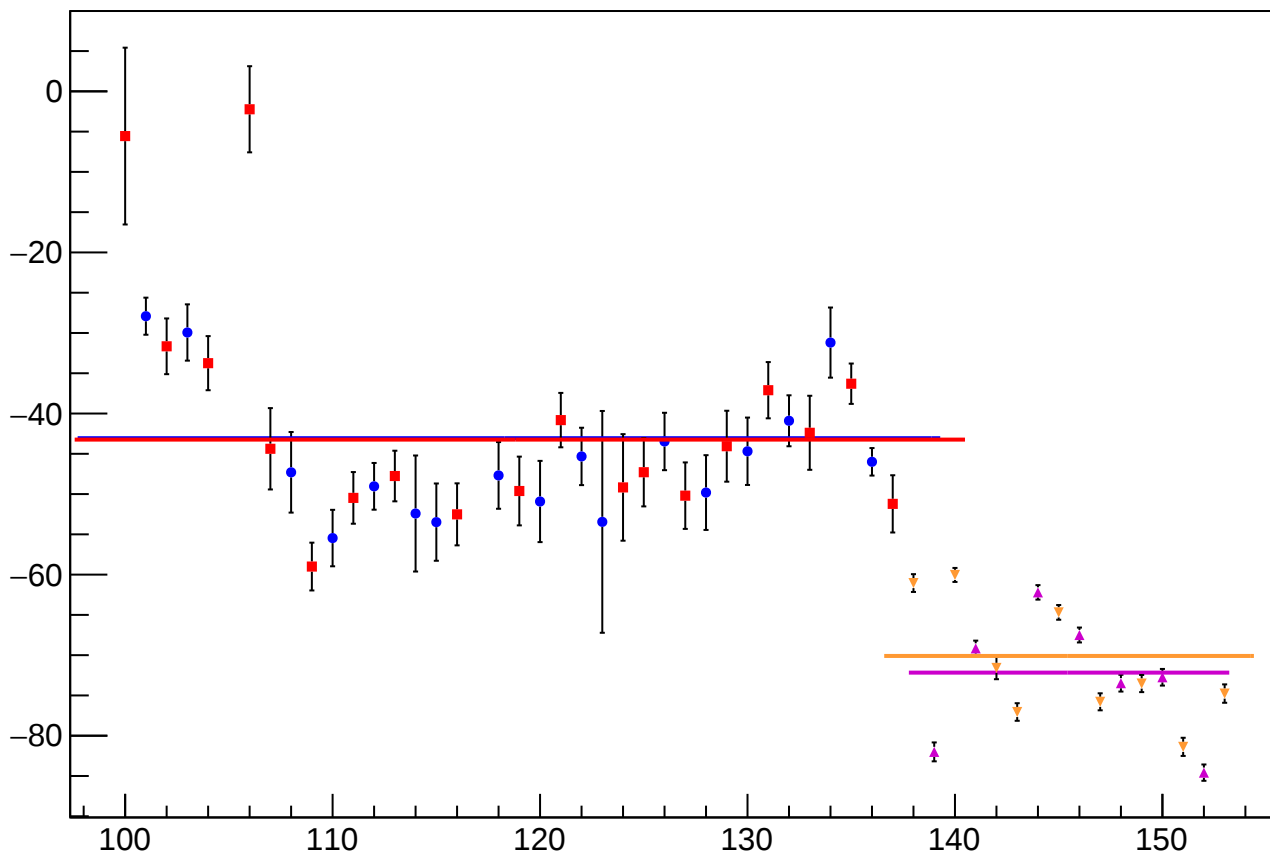
Left In:  $-5.071 \pm 0.255$   $\chi^2/\text{NDF}$ : 256.5/6

+ sign  $-4.828 \pm 0.211$   $\chi^2/\text{NDF}$ : 550.4/25

All:  $-5.471 \pm 0.154$   $\chi^2/\text{NDF}$ : 1349.6/51

- sign  $-6.209 \pm 0.226$   $\chi^2/\text{NDF}$ : 779.3/25

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:  $-70.097 \pm 0.353$   $\chi^2/\text{NDF}$ : 434.1/8

Right Out:  $-43.237 \pm 0.866$   $\chi^2/\text{NDF}$ : 154.2/18

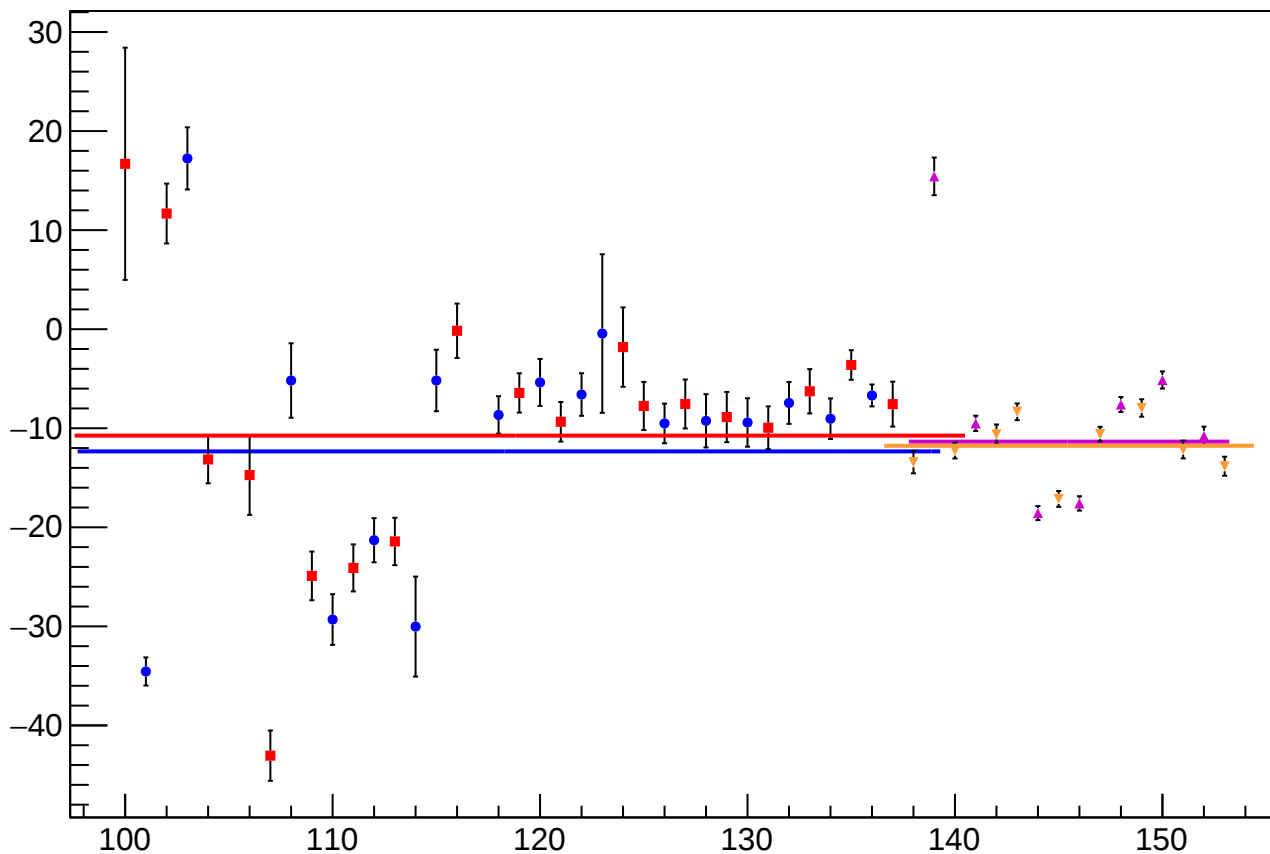
Left In:  $-72.168 \pm 0.377$   $\chi^2/\text{NDF}$ : 380.0/6

+ sign  $-66.000 \pm 0.325$   $\chi^2/\text{NDF}$ : 1421.7/25

All:  $-66.733 \pm 0.237$   $\chi^2/\text{NDF}$ : 2905.0/51

- sign  $-67.562 \pm 0.346$   $\chi^2/\text{NDF}$ : 1472.5/25

# 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:  $-11.770 \pm 0.292$   $\chi^2/\text{NDF}: 91.2/8$

Right Out:  $-10.743 \pm 0.553$   $\chi^2/\text{NDF}: 366.9/18$

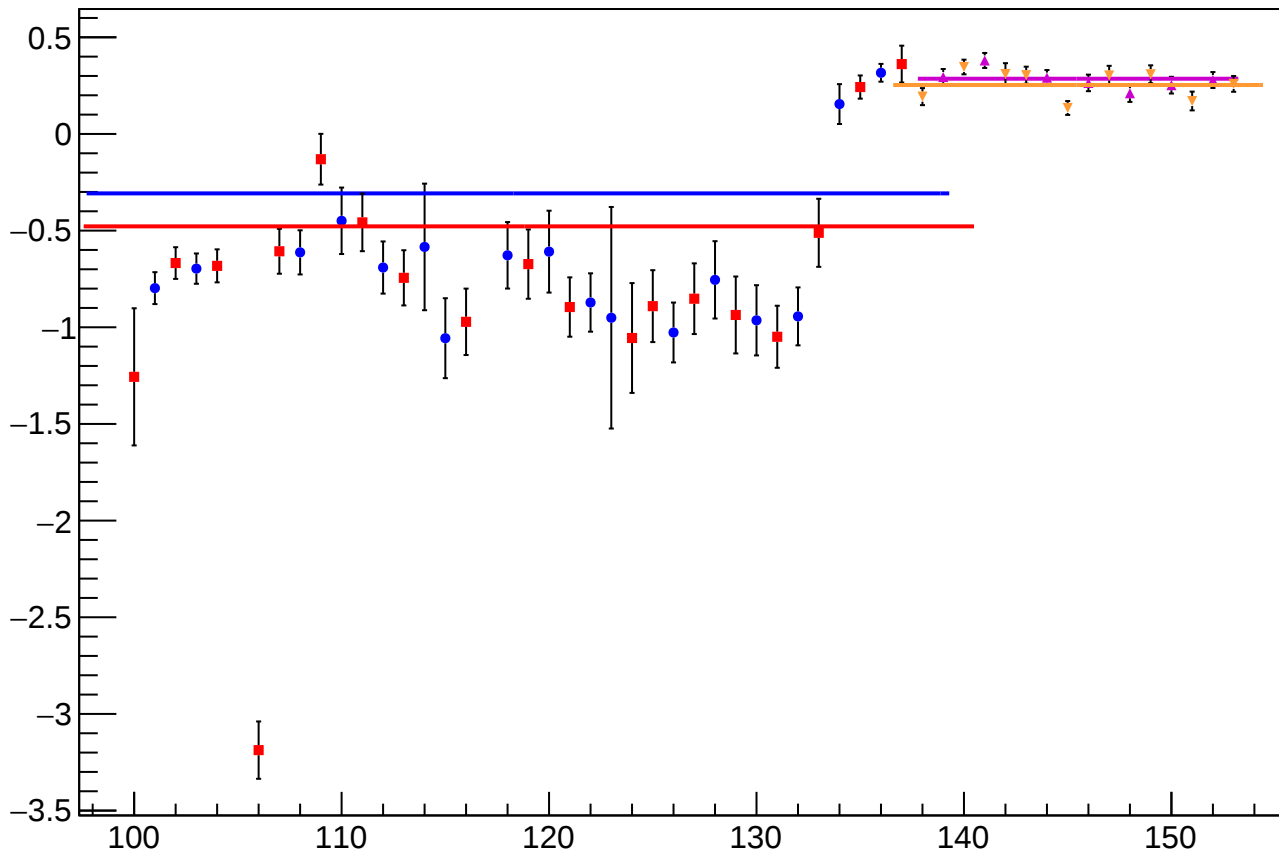
Left In:  $-11.352 \pm 0.315$   $\chi^2/\text{NDF}: 458.4/6$

+ sign  $-11.905 \pm 0.254$   $\chi^2/\text{NDF}: 567.3/25$

All:  $-11.580 \pm 0.186$   $\chi^2/\text{NDF}: 1397.0/51$

- sign  $-11.202 \pm 0.274$   $\chi^2/\text{NDF}: 826.2/25$

# 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:  $0.253 \pm 0.015$   $\chi^2/\text{NDF}$ : 26.6/8

Right Out:  $-0.478 \pm 0.029$   $\chi^2/\text{NDF}$ : 631.3/18

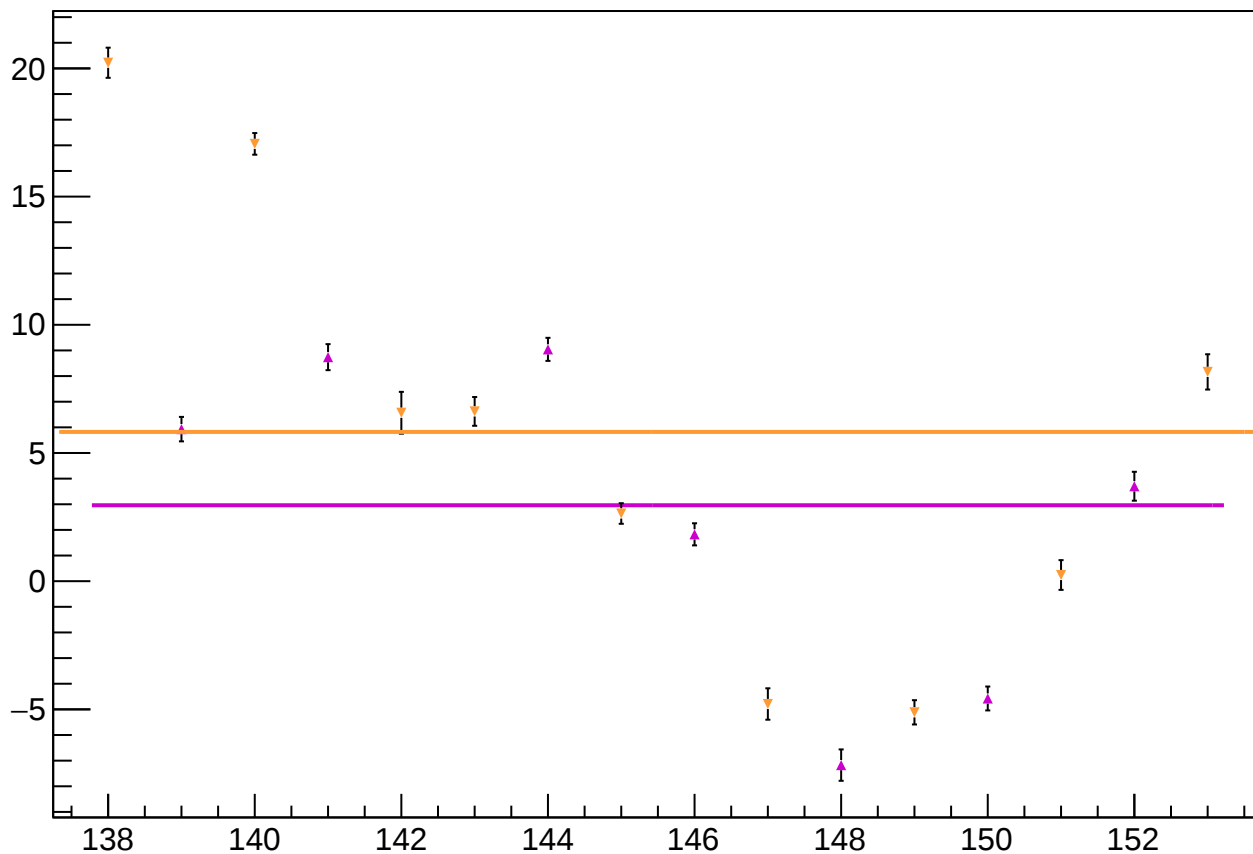
Left In:  $0.286 \pm 0.016$   $\chi^2/\text{NDF}$ : 9.7/6

+ sign  $0.131 \pm 0.013$   $\chi^2/\text{NDF}$ : 722.8/25

All:  $0.120 \pm 0.009$   $\chi^2/\text{NDF}$ : 1915.3/51

- sign  $0.108 \pm 0.014$   $\chi^2/\text{NDF}$ : 1191.1/25

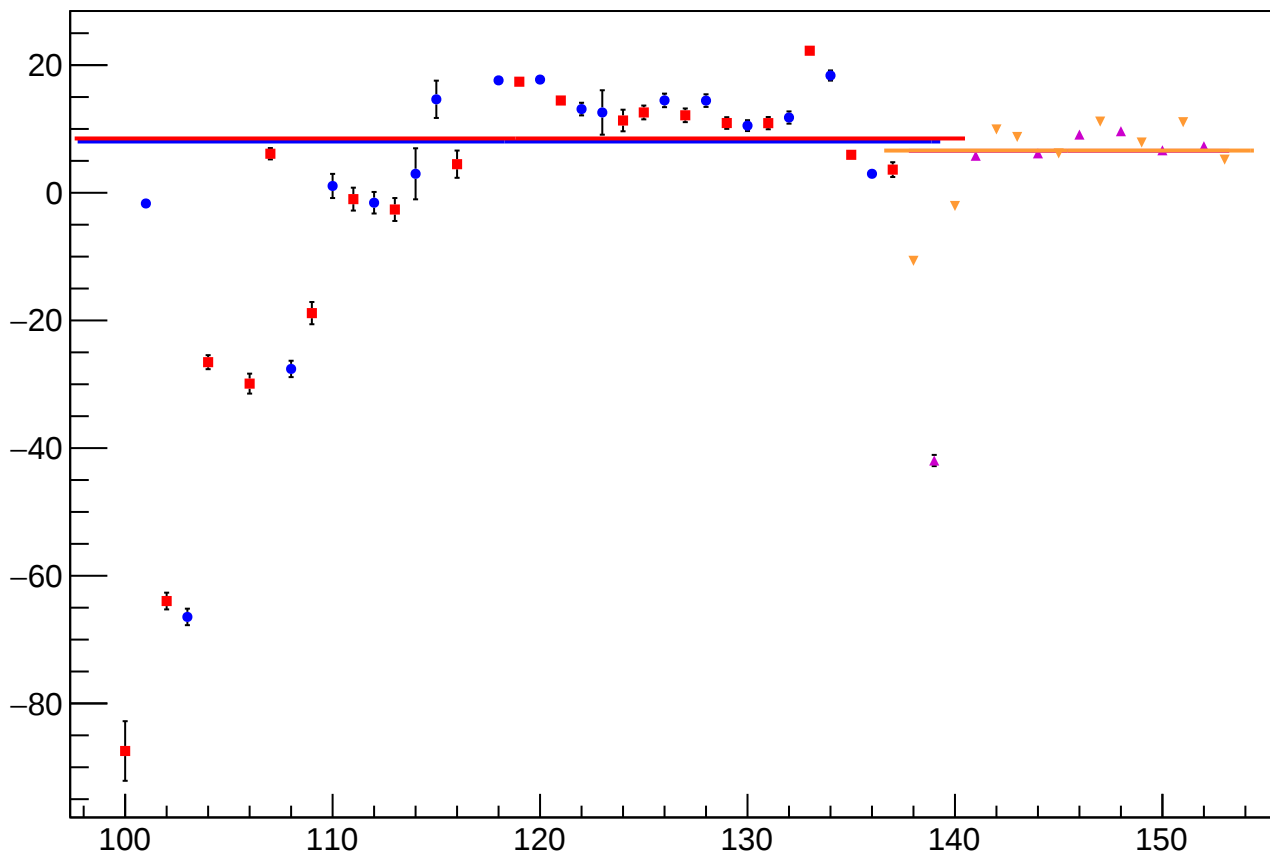
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.822 $\pm$ 0.178  $\chi^2$ /NDF:2311.8/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.962 $\pm$ 0.186  $\chi^2$ /NDF:895.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 4.452 $\pm$ 0.128  $\chi^2$ /NDF: 3331.4/15  
 - 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:  $6.616 \pm 0.123$   $\chi^2/\text{NDF}$ : 1958.6/8

Right Out:  $8.508 \pm 0.213$   $\chi^2/\text{NDF}$ : 6713.4/18

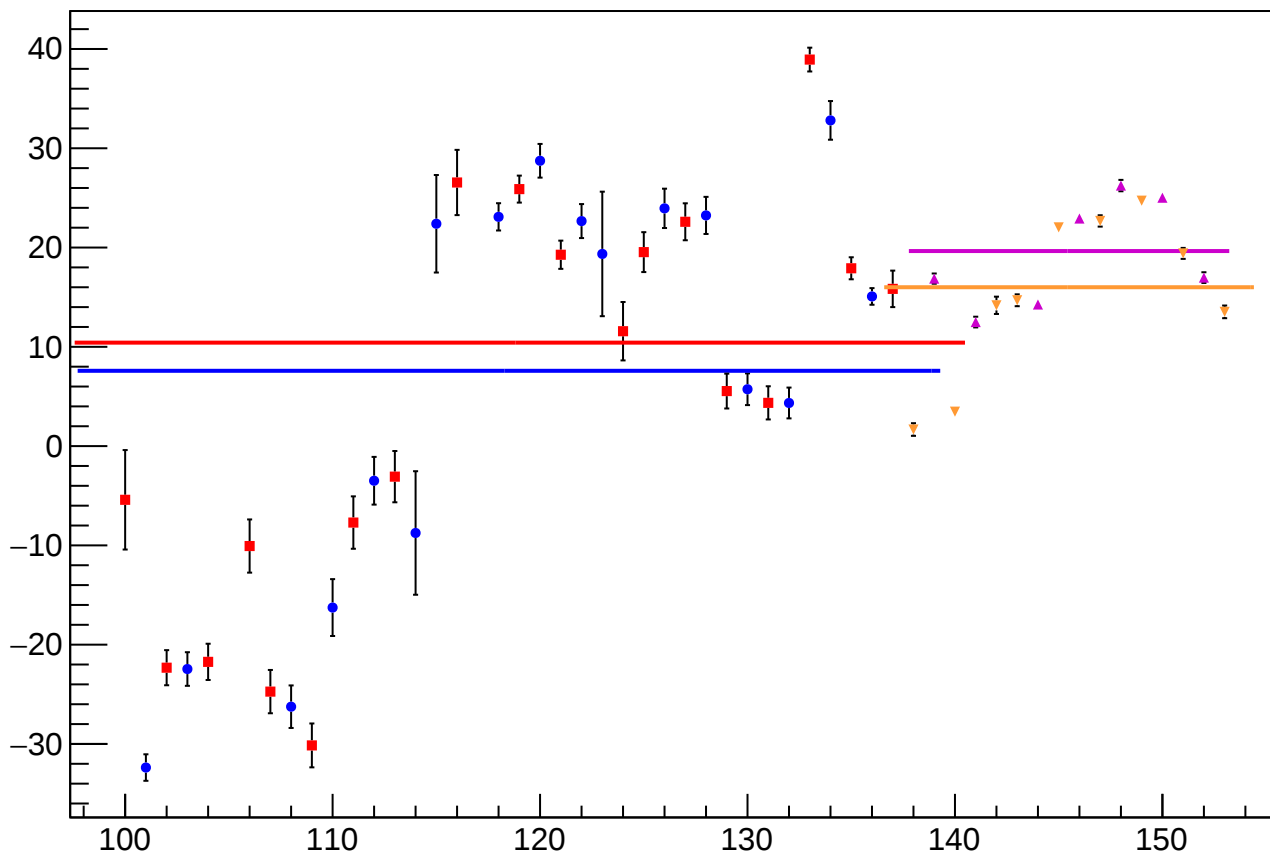
Left In:  $6.562 \pm 0.131$   $\chi^2/\text{NDF}$ : 3239.4/6

+ sign  $6.966 \pm 0.107$   $\chi^2/\text{NDF}$ : 7361.5/25

All:  $7.029 \pm 0.077$   $\chi^2/\text{NDF}$ : 17375.6/51

- sign  $7.098 \pm 0.112$   $\chi^2/\text{NDF}$ : 10013.3/25

# 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:  $16.002 \pm 0.180$   $\chi^2/\text{NDF}$ : 2070.1/8

Right Out:  $10.422 \pm 0.416$   $\chi^2/\text{NDF}$ : 2289.5/18

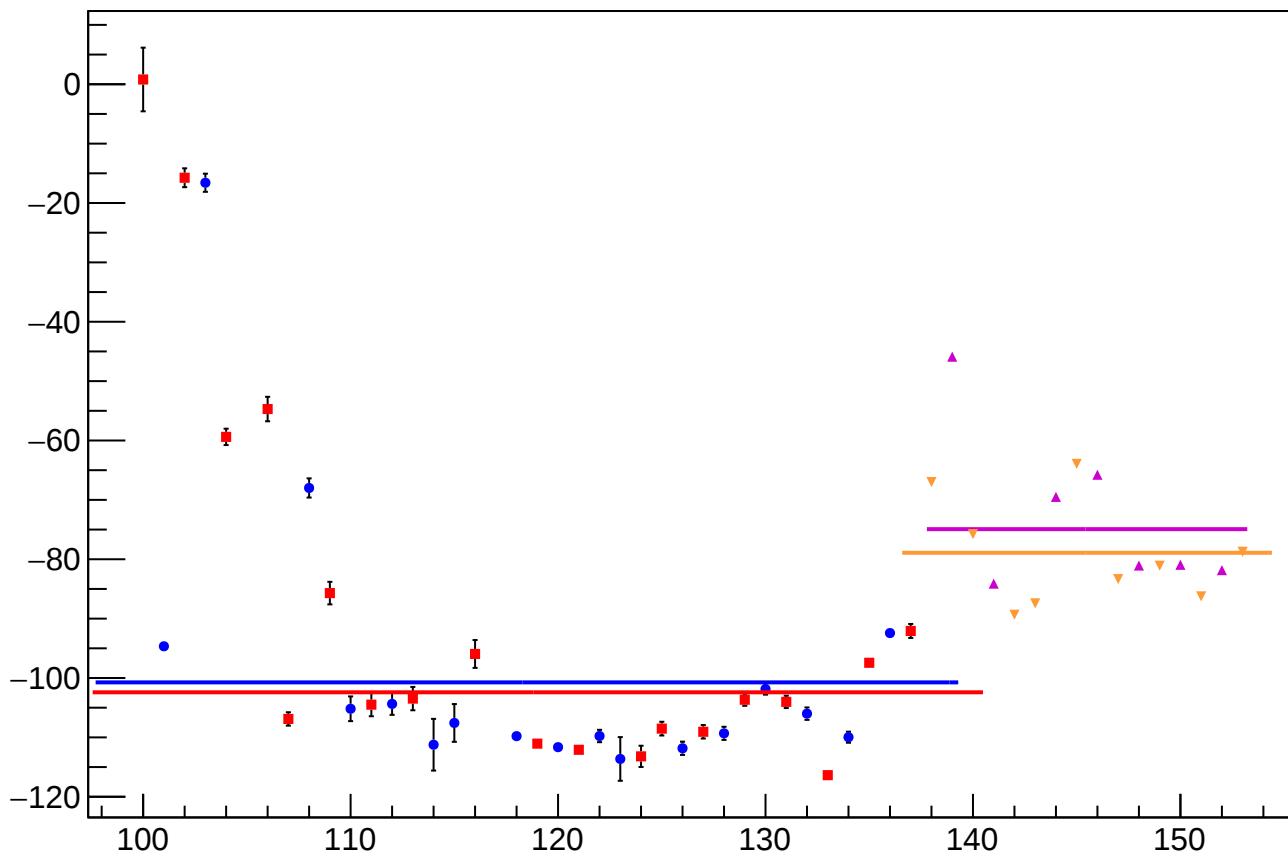
Left In:  $19.647 \pm 0.185$   $\chi^2/\text{NDF}$ : 700.6/6

+ sign  $14.679 \pm 0.165$   $\chi^2/\text{NDF}$ : 4737.4/25

All:  $16.354 \pm 0.118$   $\chi^2/\text{NDF}$ : 8349.1/51

- sign  $18.118 \pm 0.169$   $\chi^2/\text{NDF}$ : 3400.2/25

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-100.736 \pm 0.248$   $\chi^2/\text{NDF}: 4520.6/16$

Left Out:  $-78.906 \pm 0.150$   $\chi^2/\text{NDF}: 2973.7/8$

Right Out:  $-102.408 \pm 0.246$   $\chi^2/\text{NDF}: 6088.0/18$

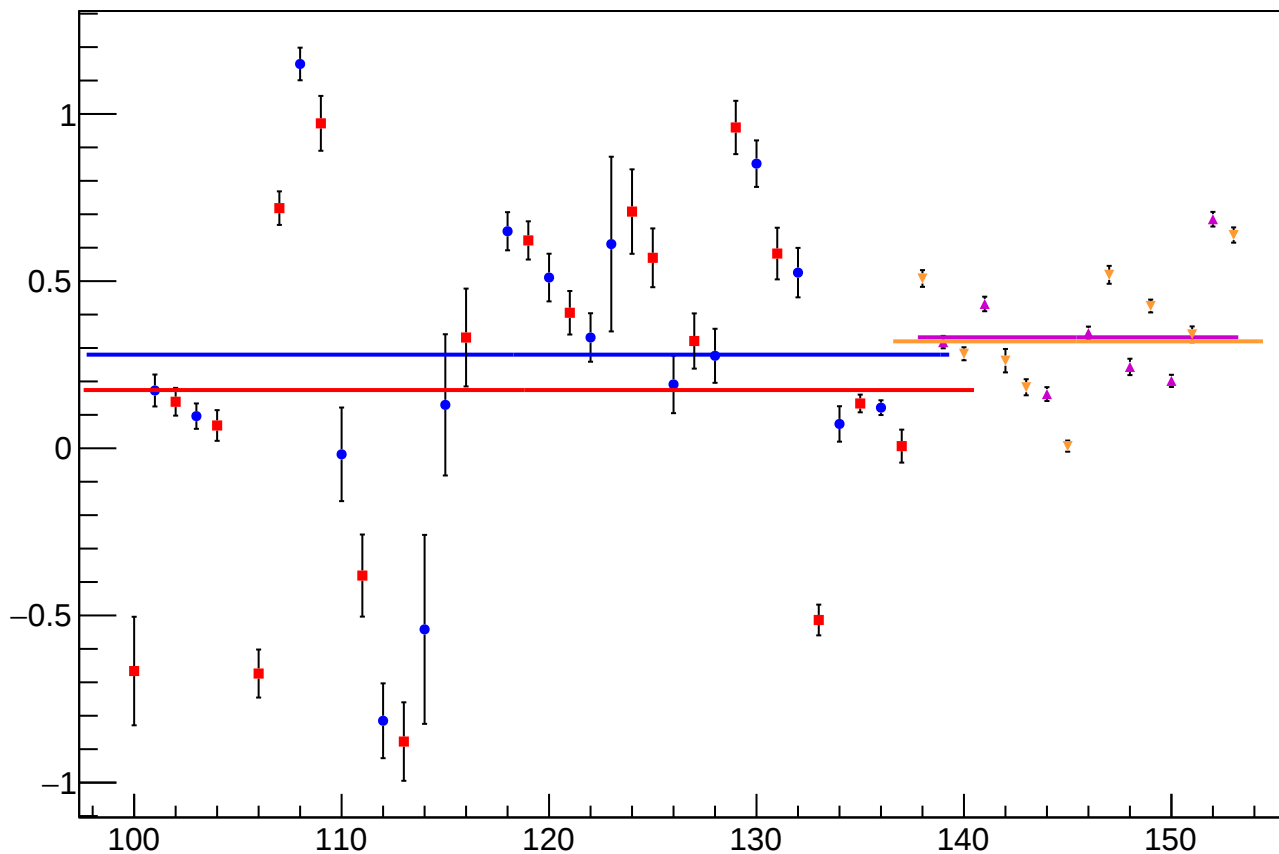
Left In:  $-74.929 \pm 0.160$   $\chi^2/\text{NDF}: 3205.3/6$

+ sign  $-84.770 \pm 0.129$   $\chi^2/\text{NDF}: 13147.1/25$

All:  $-83.962 \pm 0.093$   $\chi^2/\text{NDF}: 31306.3/51$

- sign  $-83.086 \pm 0.134$   $\chi^2/\text{NDF}: 18077.0/25$

# 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:  $0.320 \pm 0.007$   $\chi^2/\text{NDF}$ : 729.3/8

Right Out:  $0.174 \pm 0.013$   $\chi^2/\text{NDF}$ : 964.1/18

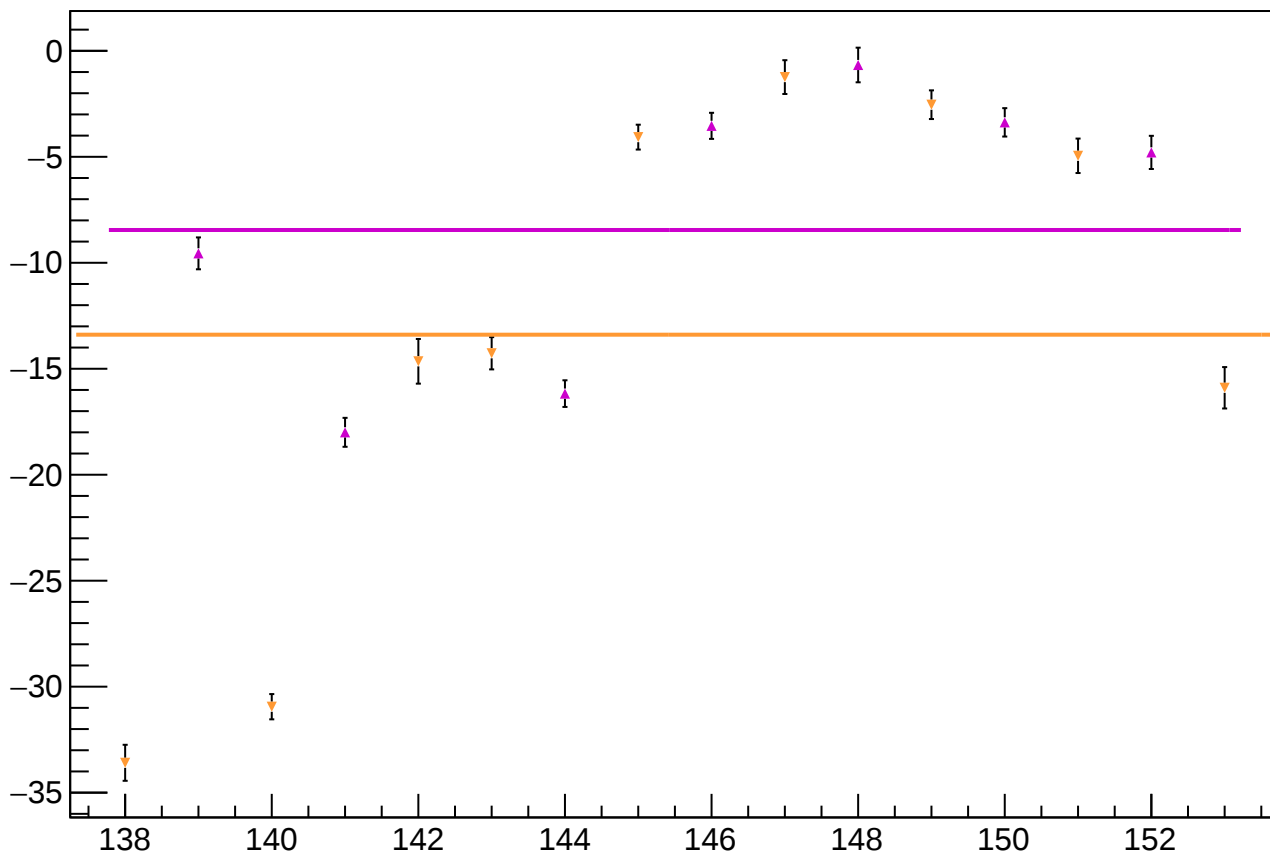
Left In:  $0.332 \pm 0.008$   $\chi^2/\text{NDF}$ : 412.5/6

+ sign  $0.311 \pm 0.006$   $\chi^2/\text{NDF}$ : 1392.4/25

All:  $0.302 \pm 0.005$   $\chi^2/\text{NDF}$ : 2876.2/51

- sign  $0.293 \pm 0.007$   $\chi^2/\text{NDF}$ : 1480.2/25

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -13.393+/-0.250  $\chi^2/\text{NDF}$ : 2292.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

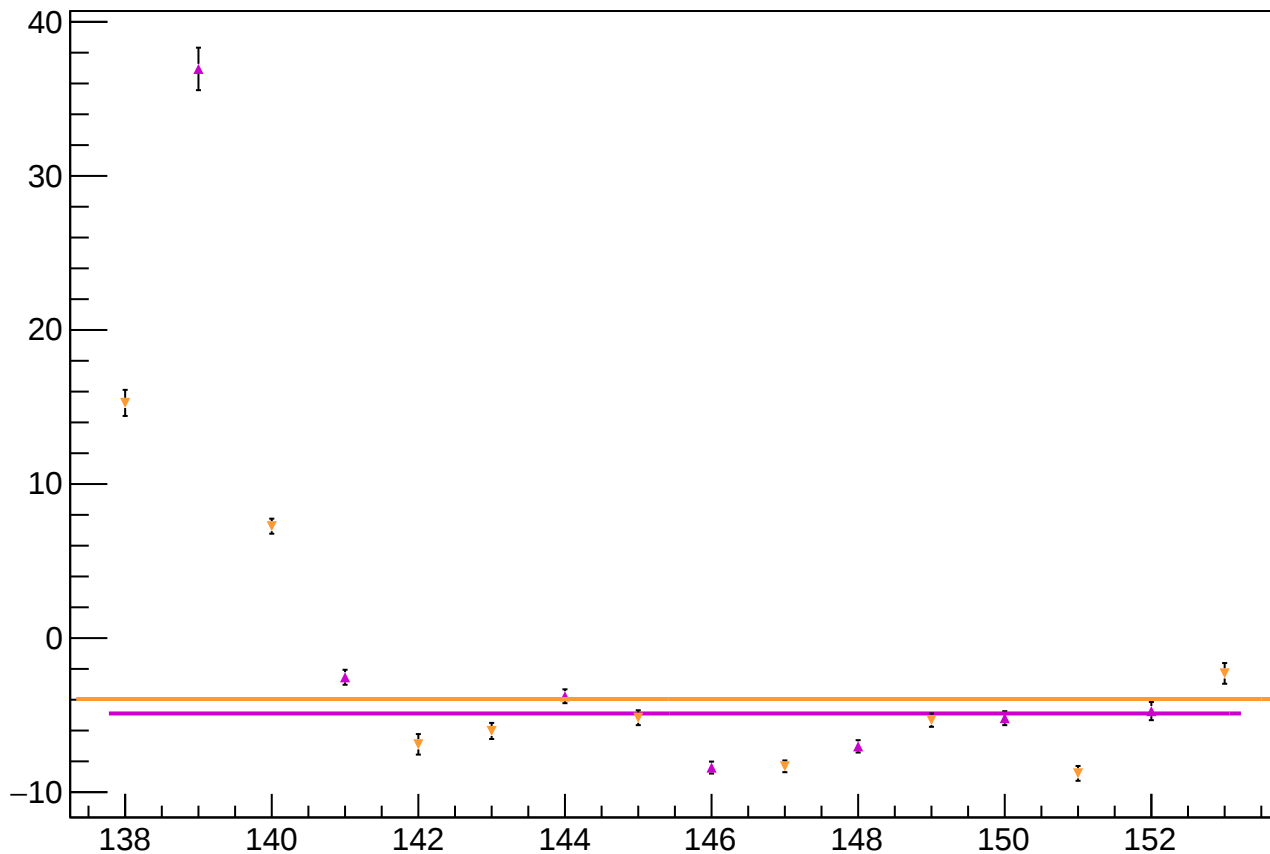
Left In: -8.453+/-0.263  $\chi^2/\text{NDF}$ : 582.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.054+/-0.181  $\chi^2/\text{NDF}$ : 3059.6/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

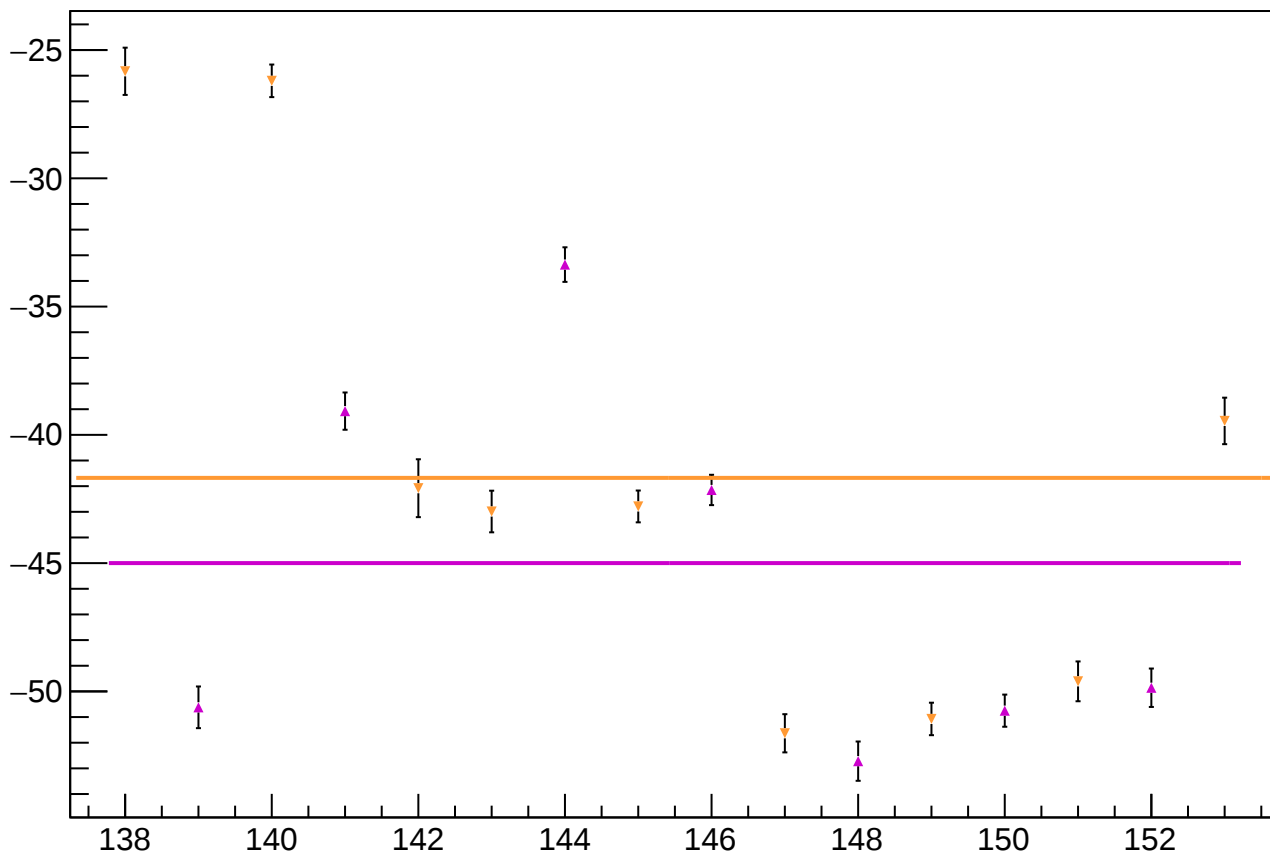
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-3.953 \pm 0.170$   $\chi^2/\text{NDF}$ : 1330.7/8  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-4.892 \pm 0.182$   $\chi^2/\text{NDF}$ : 1059.9/6

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $-4.392 \pm 0.124$   $\chi^2/\text{NDF}$ : 2404.8/15  
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.677+/-0.252  $\chi^2/\text{NDF}$ : 1406.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

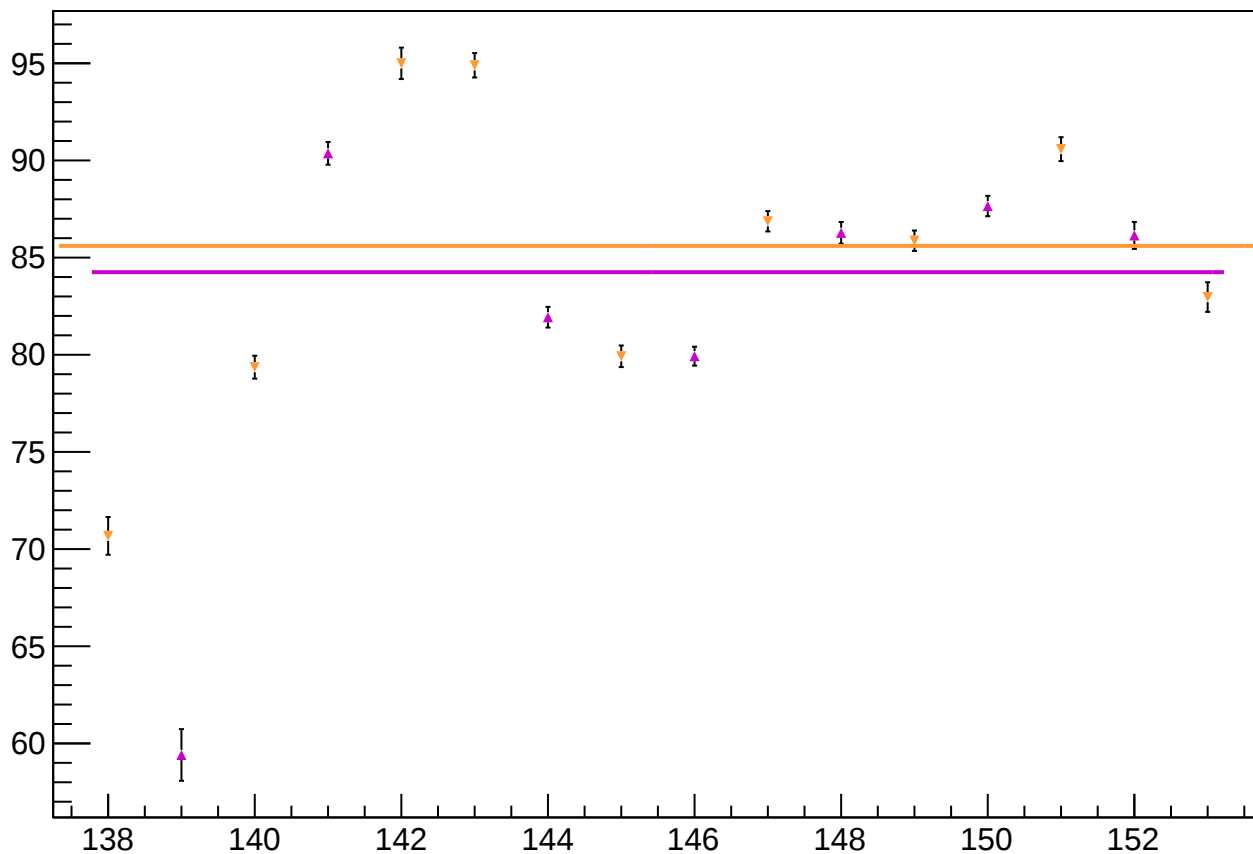
Left In: -44.999+/-0.263  $\chi^2/\text{NDF}$ : 663.8/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.270+/-0.182  $\chi^2/\text{NDF}$ : 2153.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 85.603+/-0.209  $\chi^2/\text{NDF}$ : 891.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

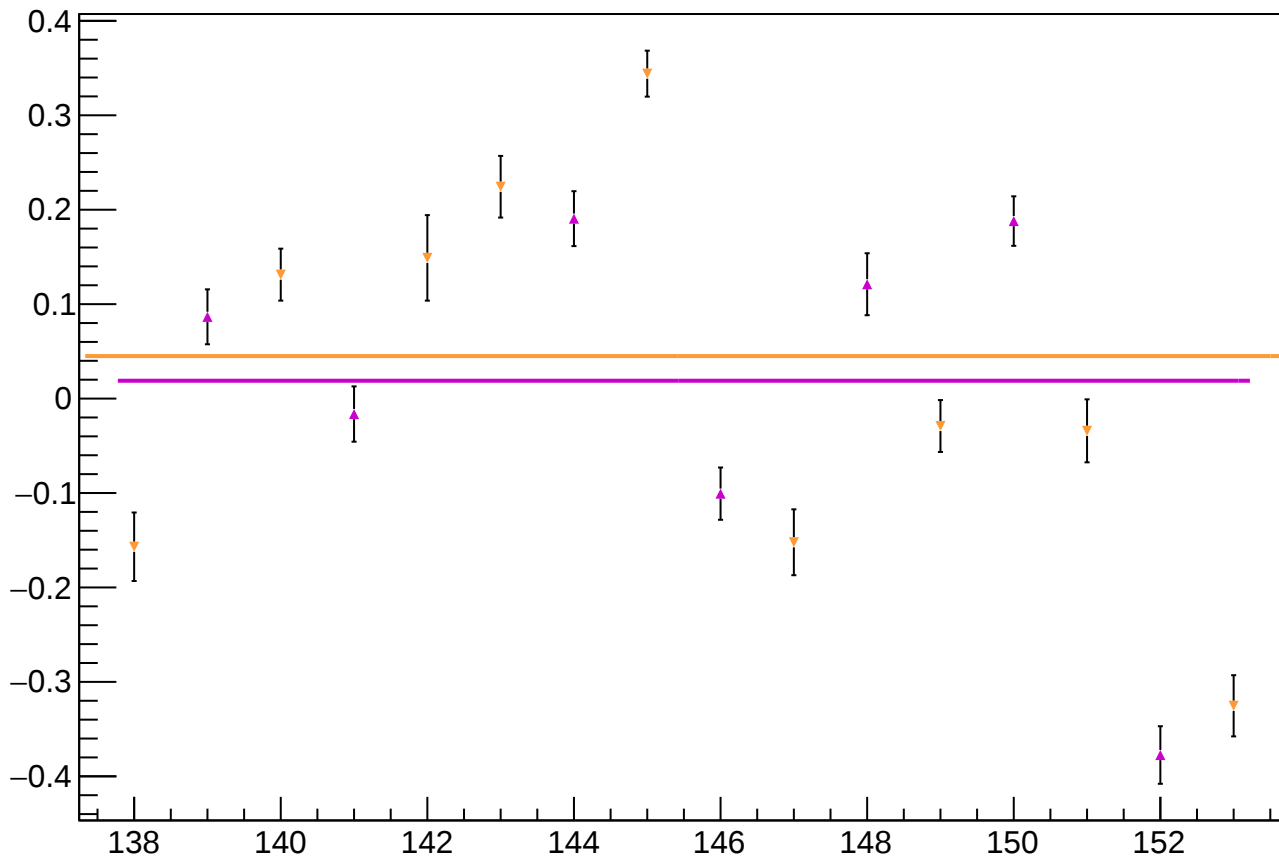
Left In: 84.251+/-0.223  $\chi^2/\text{NDF}$ : 619.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 84.970+/-0.152  $\chi^2/\text{NDF}$ : 1529.7/15

- 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: 0.045 $\pm$ 0.010  $\chi^2$ /NDF:402.7/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

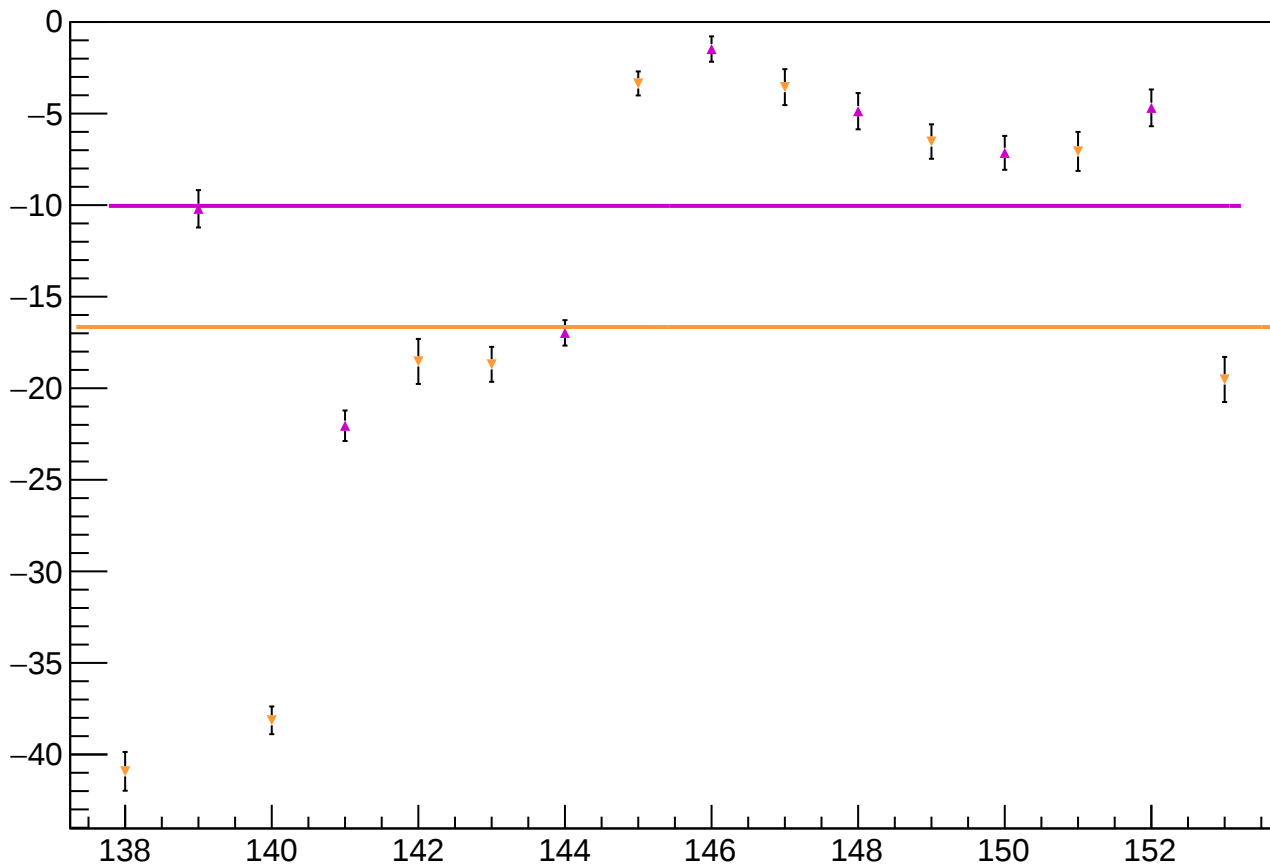
Left In: 0.019 $\pm$ 0.011  $\chi^2$ /NDF:280.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.033 $\pm$ 0.008  $\chi^2$ /NDF: 686.5/15

- 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: -16.658 $\pm$ 0.310  $\chi^2$ /NDF:2130.6/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

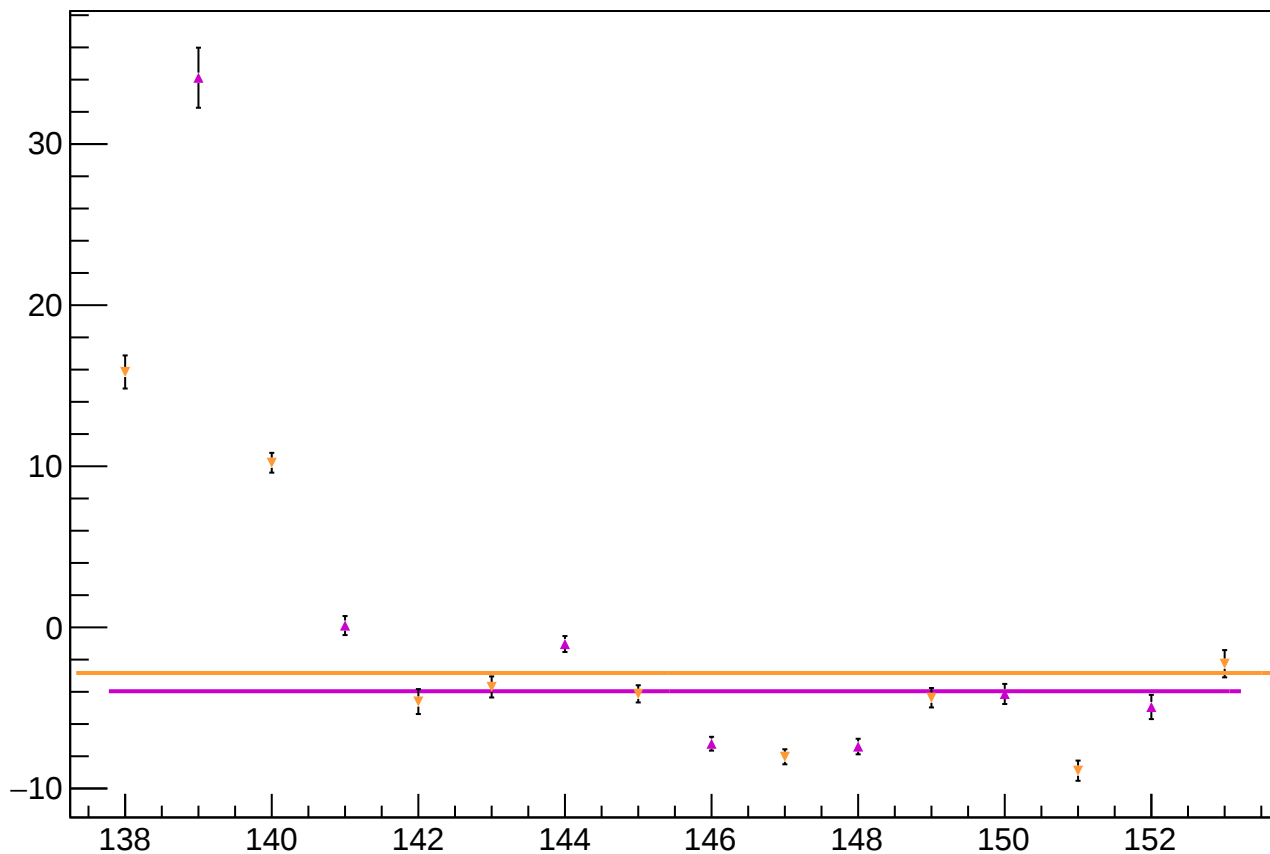
Left In: -10.042 $\pm$ 0.320  $\chi^2$ /NDF:526.2/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.463 $\pm$ 0.223  $\chi^2$ /NDF: 2877.4/15

- 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: -2.830+/-0.211  $\chi^2/\text{NDF}$ : 1019.5/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

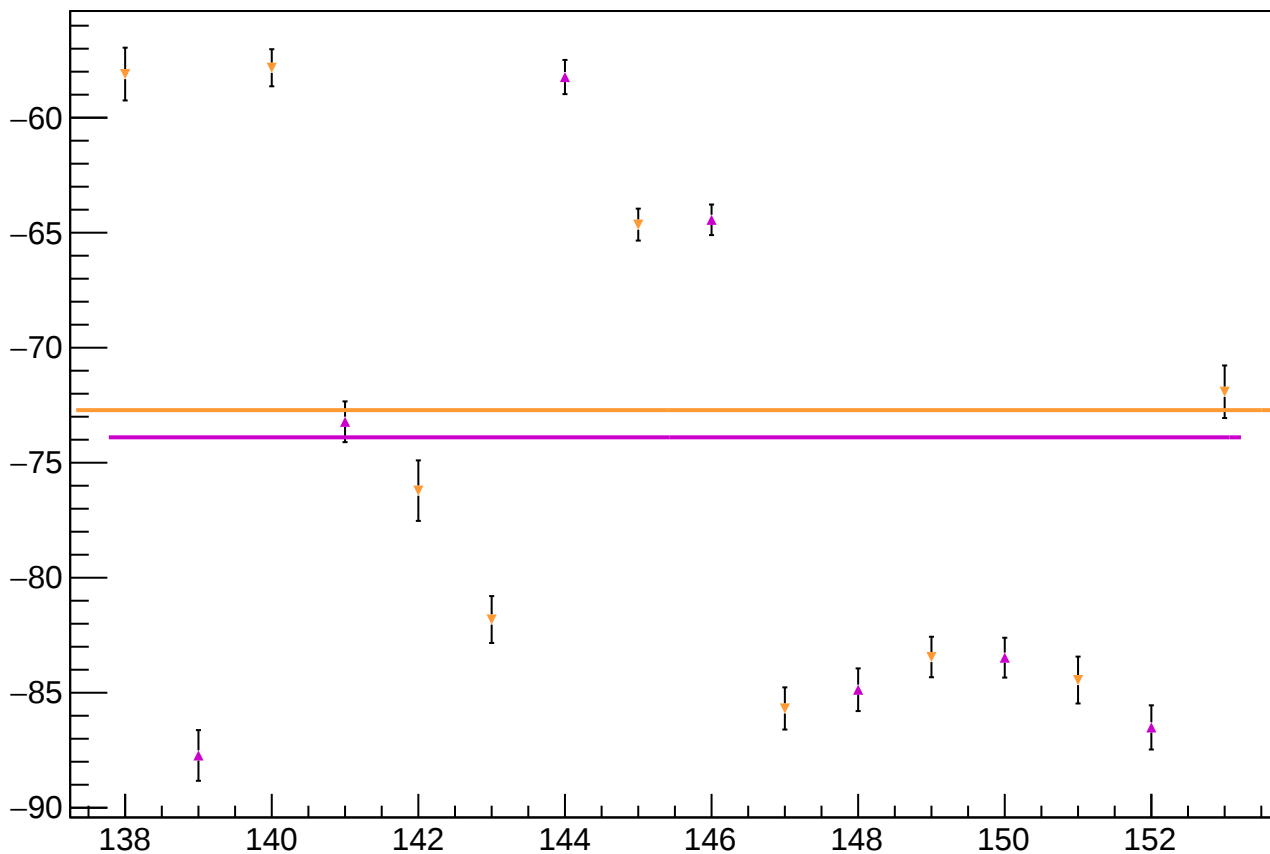
Left In: -3.963+/-0.217  $\chi^2/\text{NDF}$ : 609.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.382+/-0.151  $\chi^2/\text{NDF}$ : 1643.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -72.714+/-0.314  $\chi^2/\text{NDF}$ :1207.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

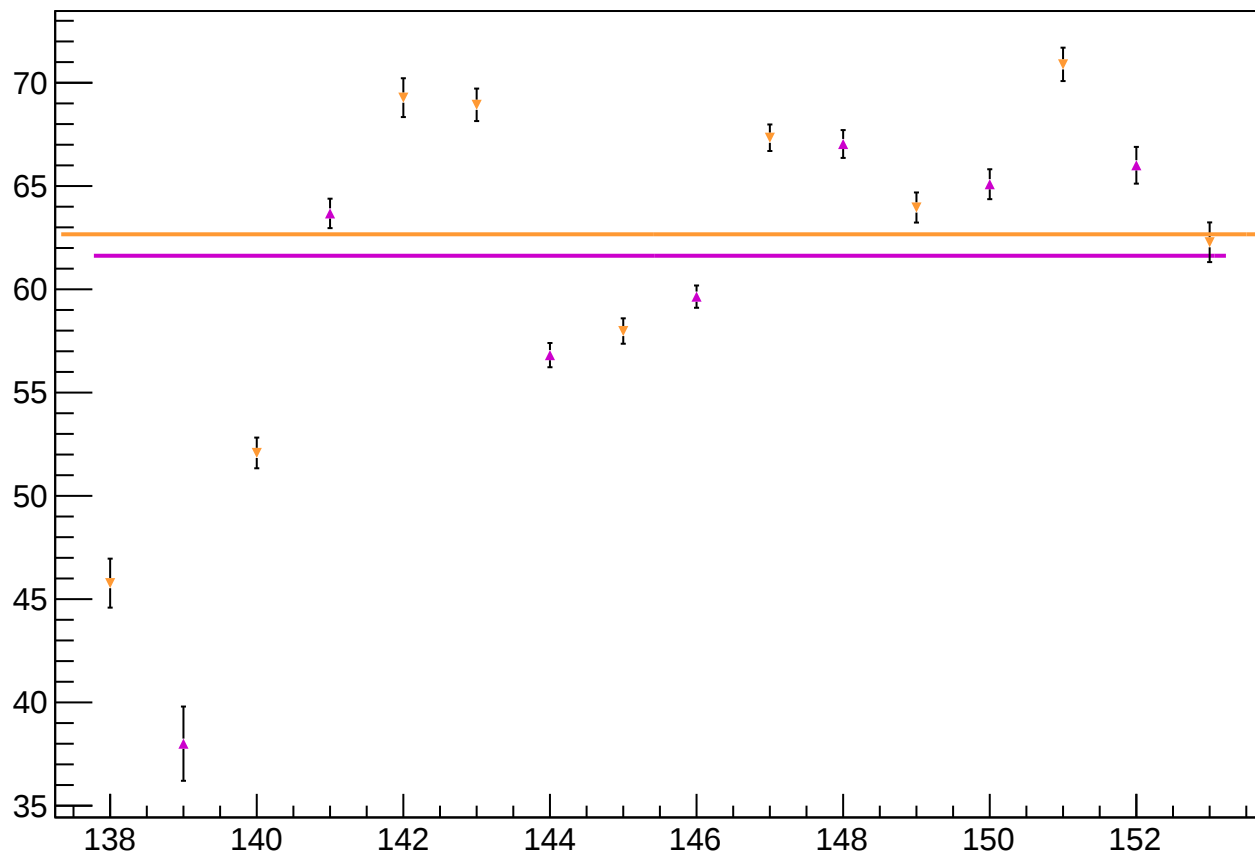
Left In: -73.896+/-0.320  $\chi^2/\text{NDF}$ :1238.8/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -73.294+/-0.224  $\chi^2/\text{NDF}$ : 2452.8/15

- 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: 62.664+/-0.260  $\chi^2/\text{NDF}$ : 736.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

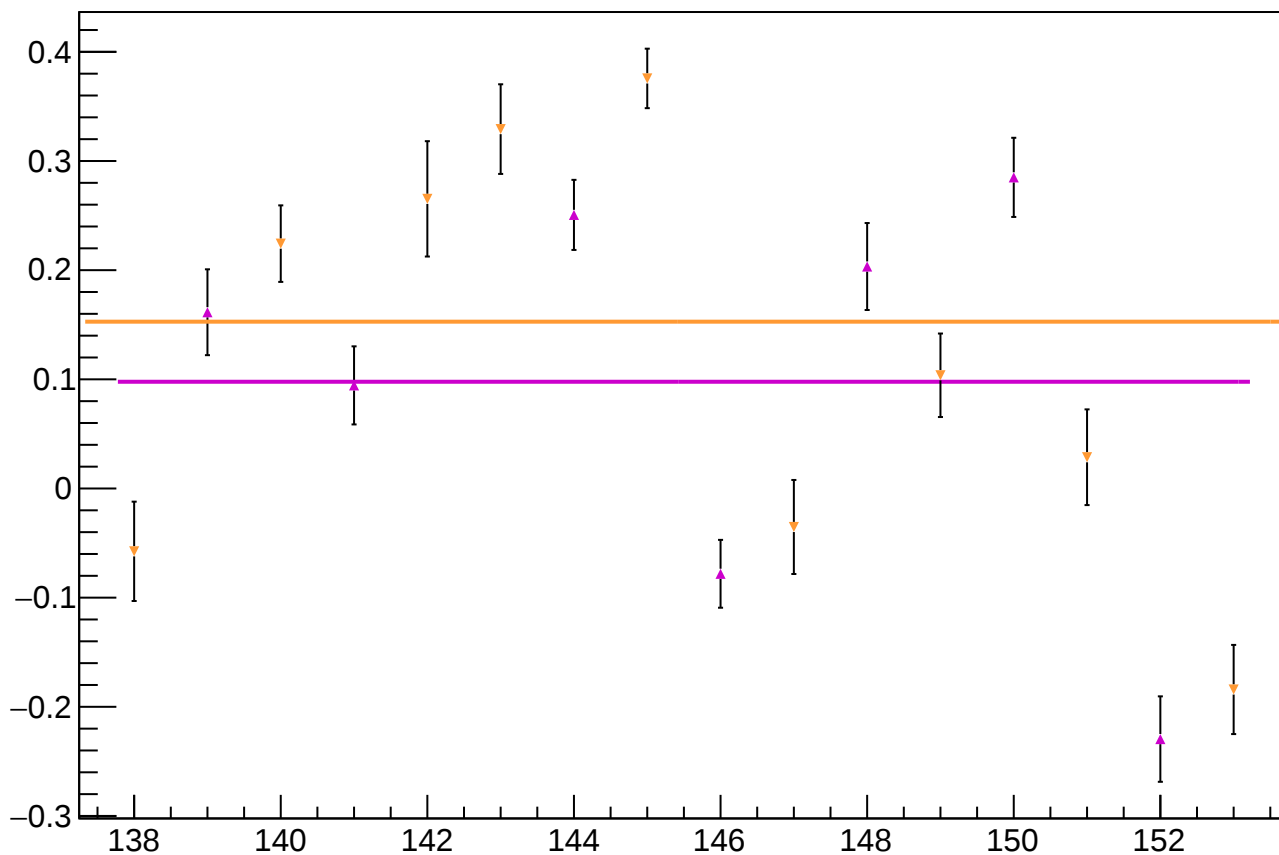
Left In: 61.625+/-0.267  $\chi^2/\text{NDF}$ : 373.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.160+/-0.186  $\chi^2/\text{NDF}$ : 1117.9/15

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.153+/-0.013  $\chi^2/\text{NDF}$ :212.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

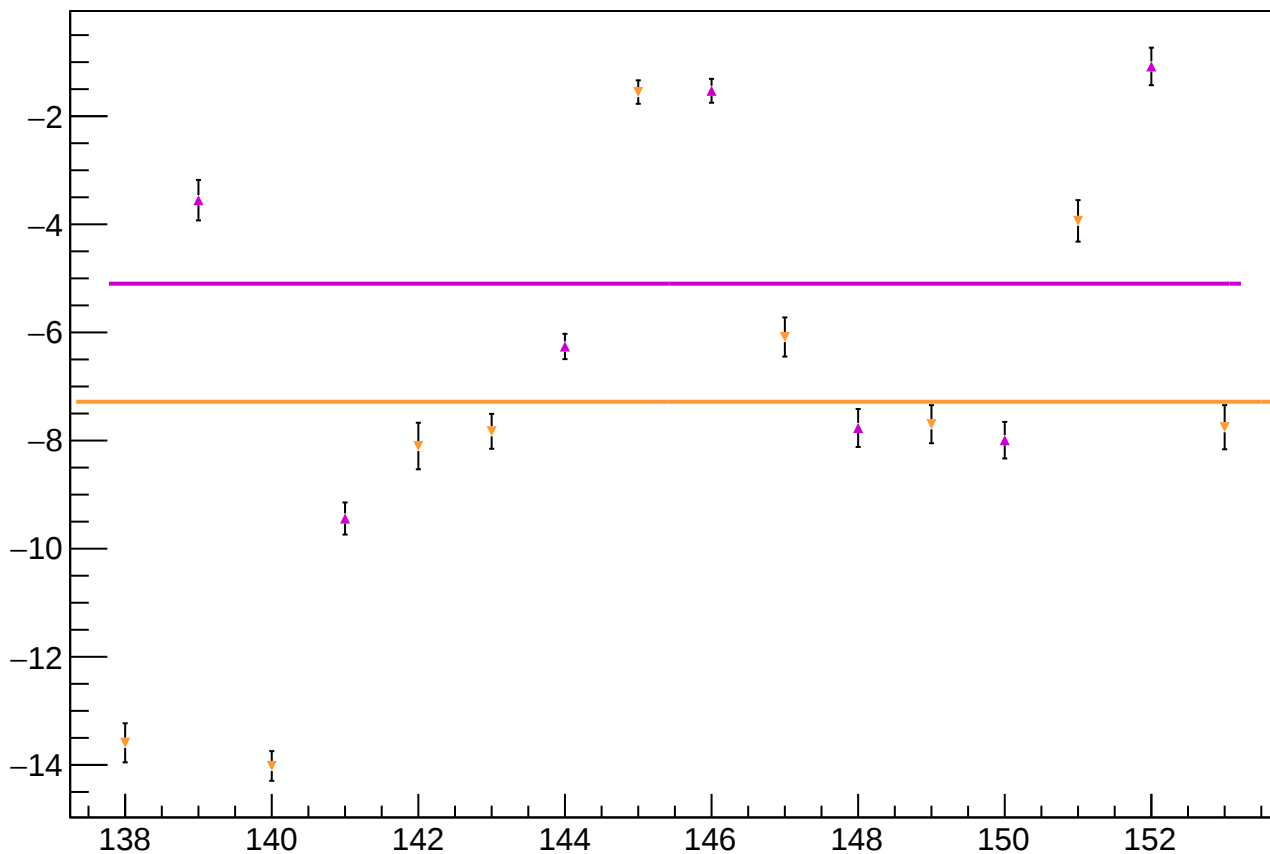
Left In: 0.098+/-0.014  $\chi^2/\text{NDF}$ :161.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.126+/-0.009  $\chi^2/\text{NDF}$ : 381.8/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

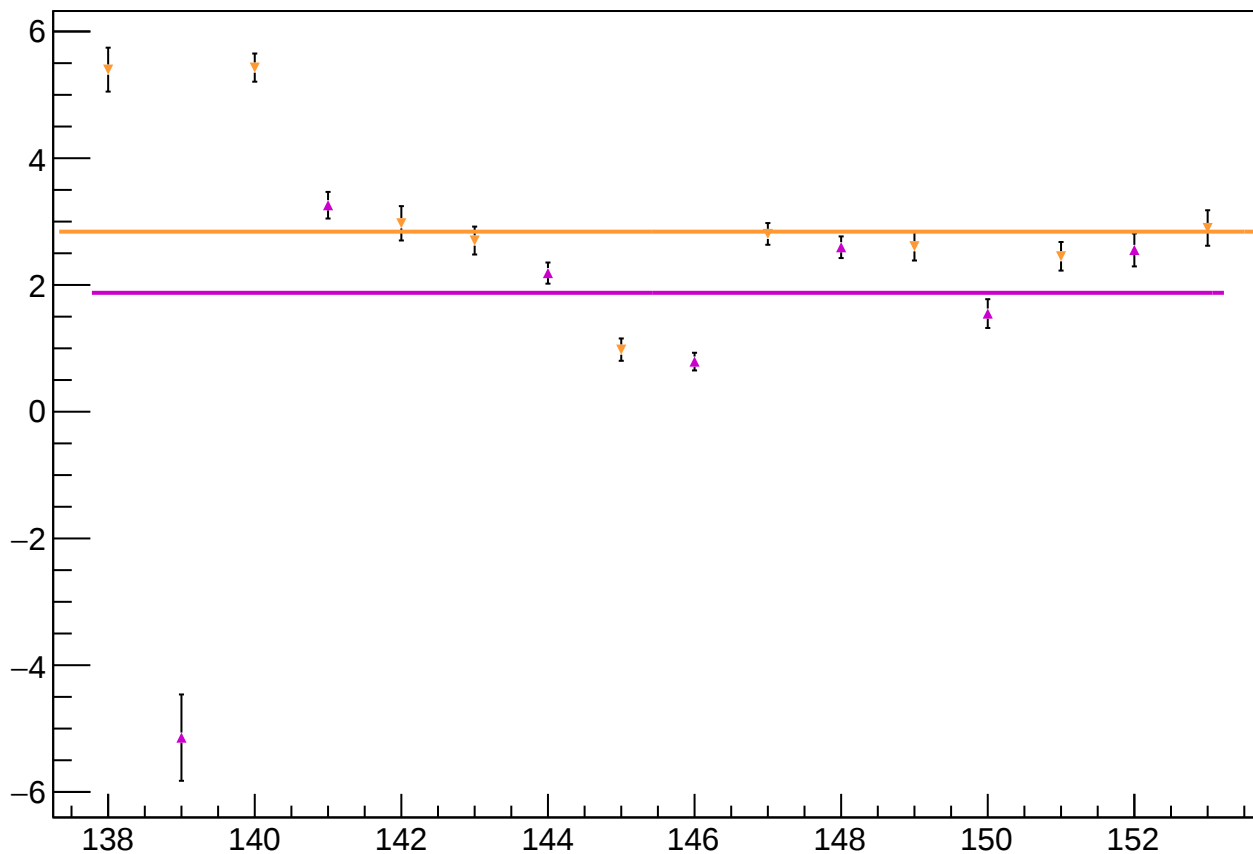
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -7.282 $\pm$ 0.108  $\chi^2$ /NDF:1699.3/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.098 $\pm$ 0.110  $\chi^2$ /NDF:781.9/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -6.211 $\pm$ 0.077  $\chi^2$ /NDF: 2681.6/15  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

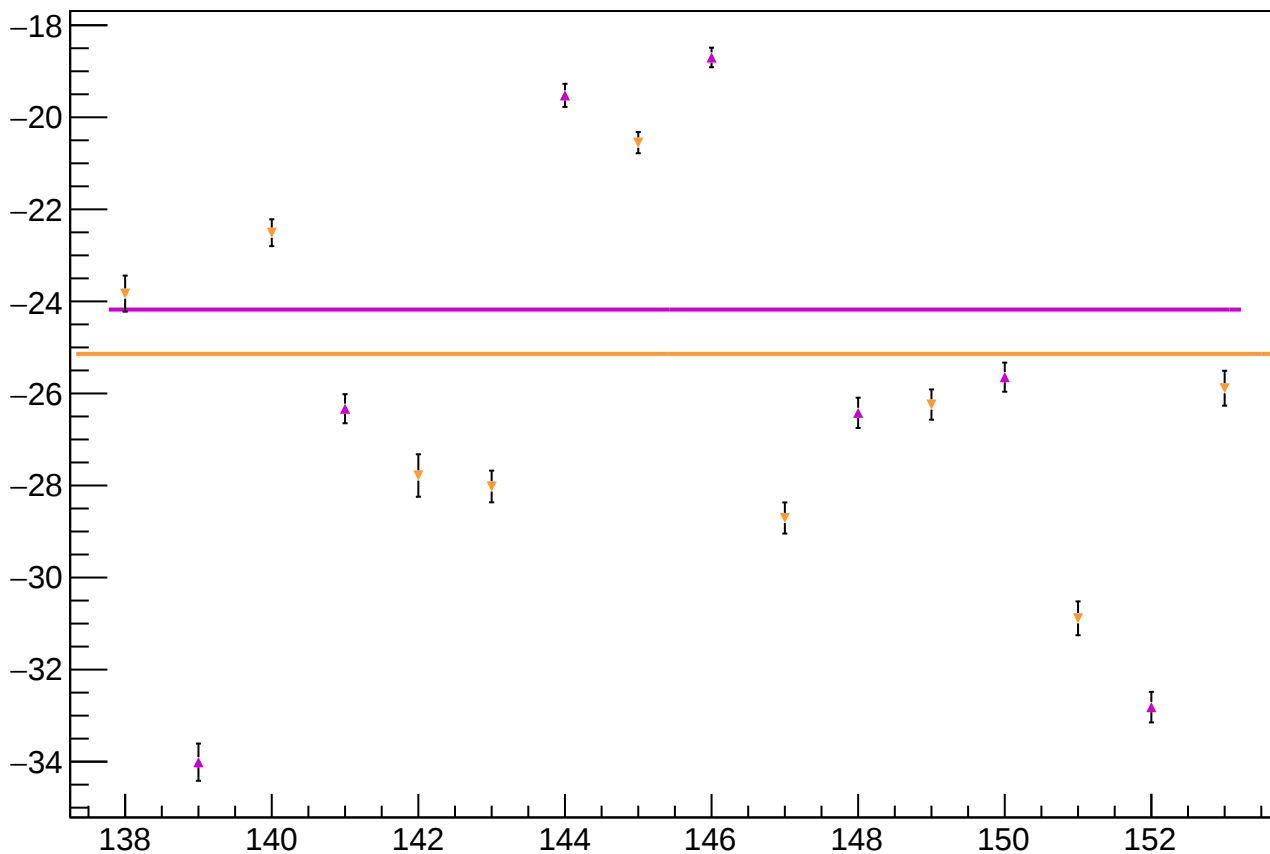
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.841+/-0.074  $\chi^2/\text{NDF}$ : 306.2/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.876+/-0.074  $\chi^2/\text{NDF}$ : 240.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 2.360+/-0.053  $\chi^2/\text{NDF}$ : 630.4/15  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.140+/-0.110  $\chi^2/\text{NDF}$ : 962.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

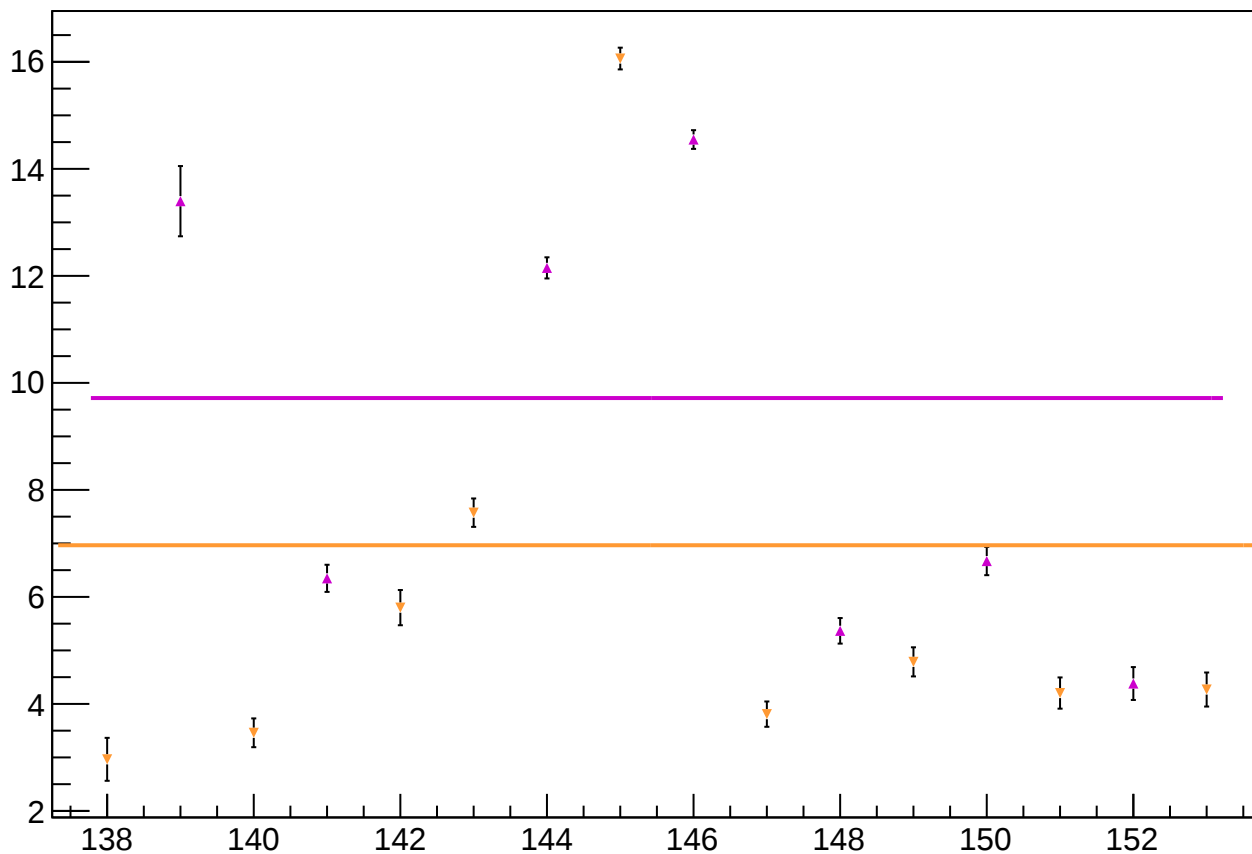
Left In: -24.177+/-0.110  $\chi^2/\text{NDF}$ : 2391.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.659+/-0.078  $\chi^2/\text{NDF}$ : 3392.4/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

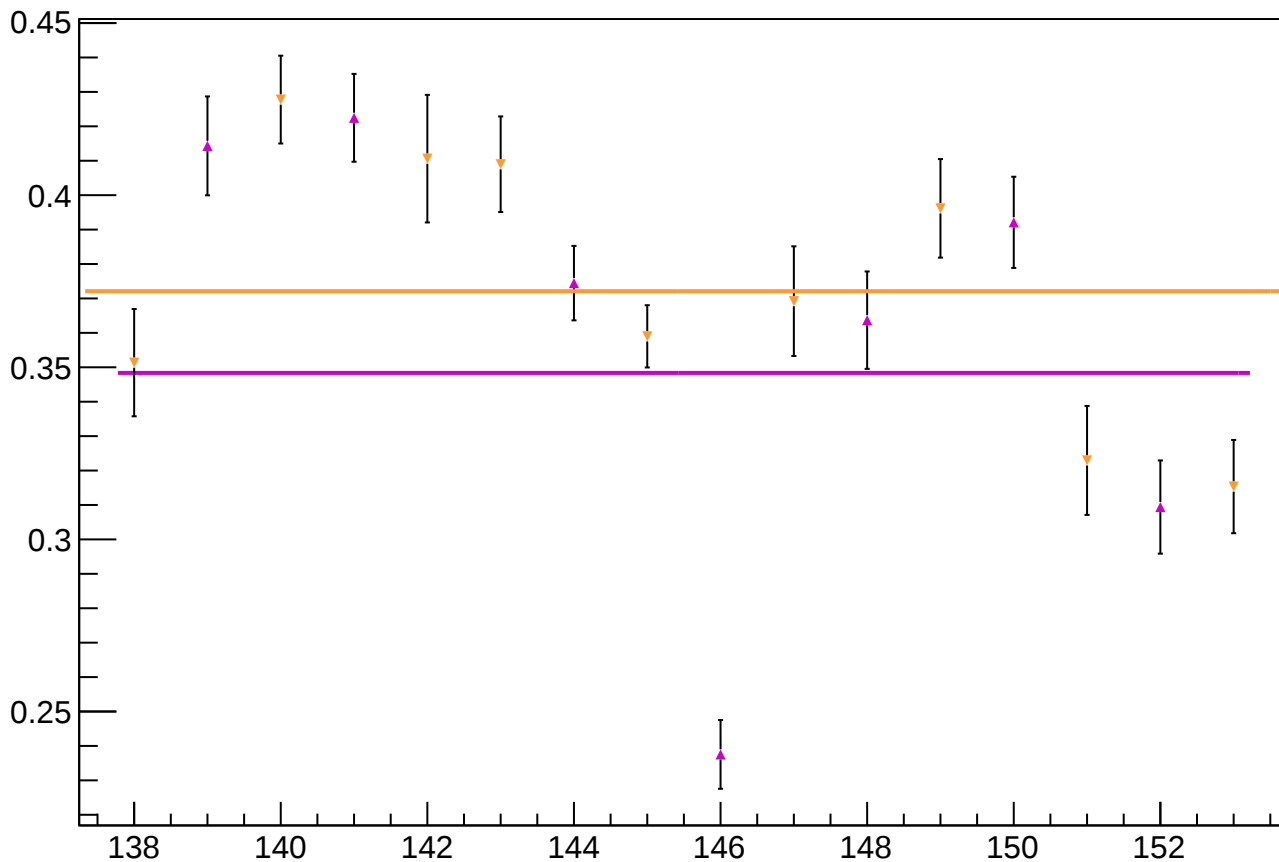
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 6.966 $\pm$ 0.091  $\chi^2$ /NDF:2694.3/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 9.717 $\pm$ 0.092  $\chi^2$ /NDF:1888.7/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 8.329 $\pm$ 0.065  $\chi^2$ /NDF: 5035.6/15  
 - 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: 0.372 $\pm$ 0.005  $\chi^2$ /NDF:64.4/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

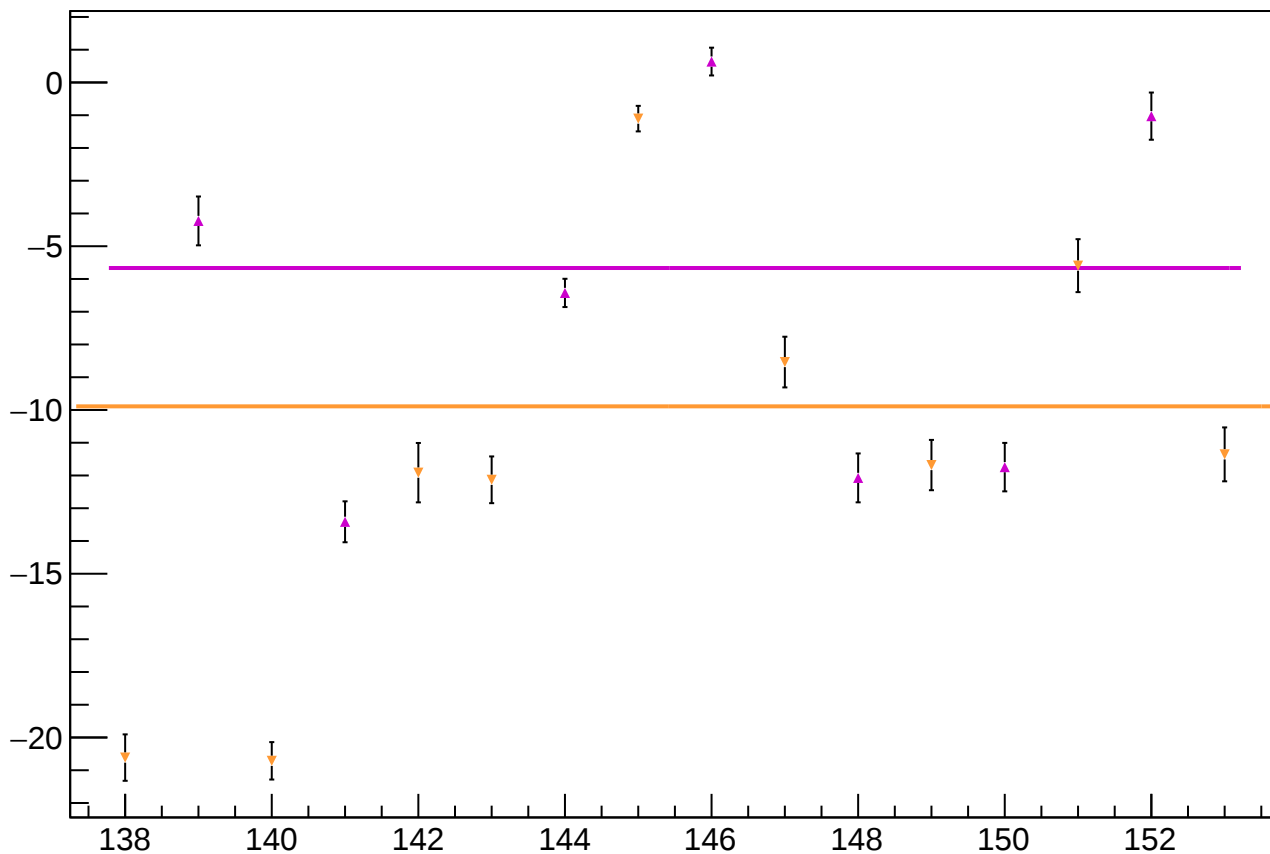
Left In: 0.348 $\pm$ 0.005  $\chi^2$ /NDF:204.1/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.361 $\pm$ 0.003  $\chi^2$ /NDF: 281.8/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -9.889+/-0.217  $\chi^2/\text{NDF}$ : 1149.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

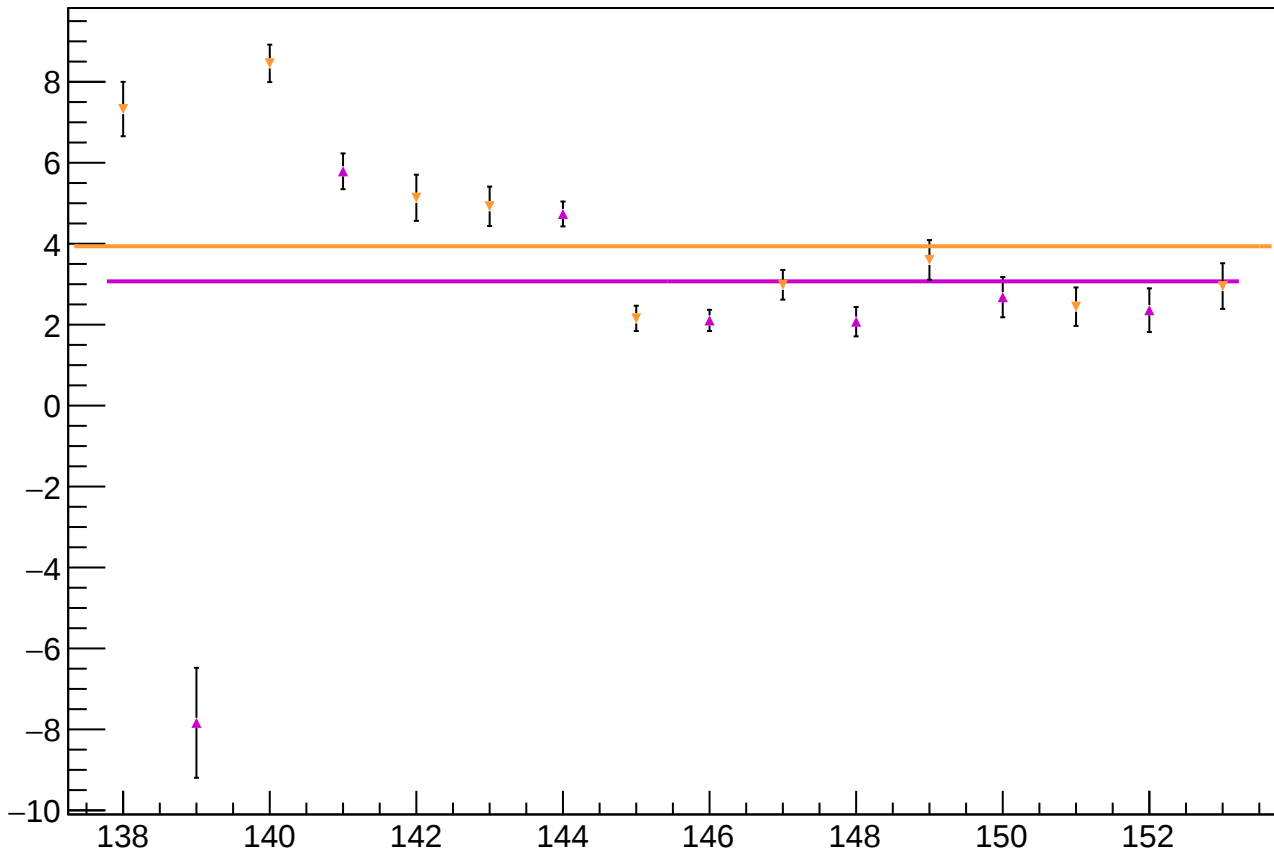
Left In: -5.665+/-0.219  $\chi^2/\text{NDF}$ : 564.0/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.795+/-0.154  $\chi^2/\text{NDF}$ : 1901.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.937+/-0.151  $\chi^2/\text{NDF}$ :182.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

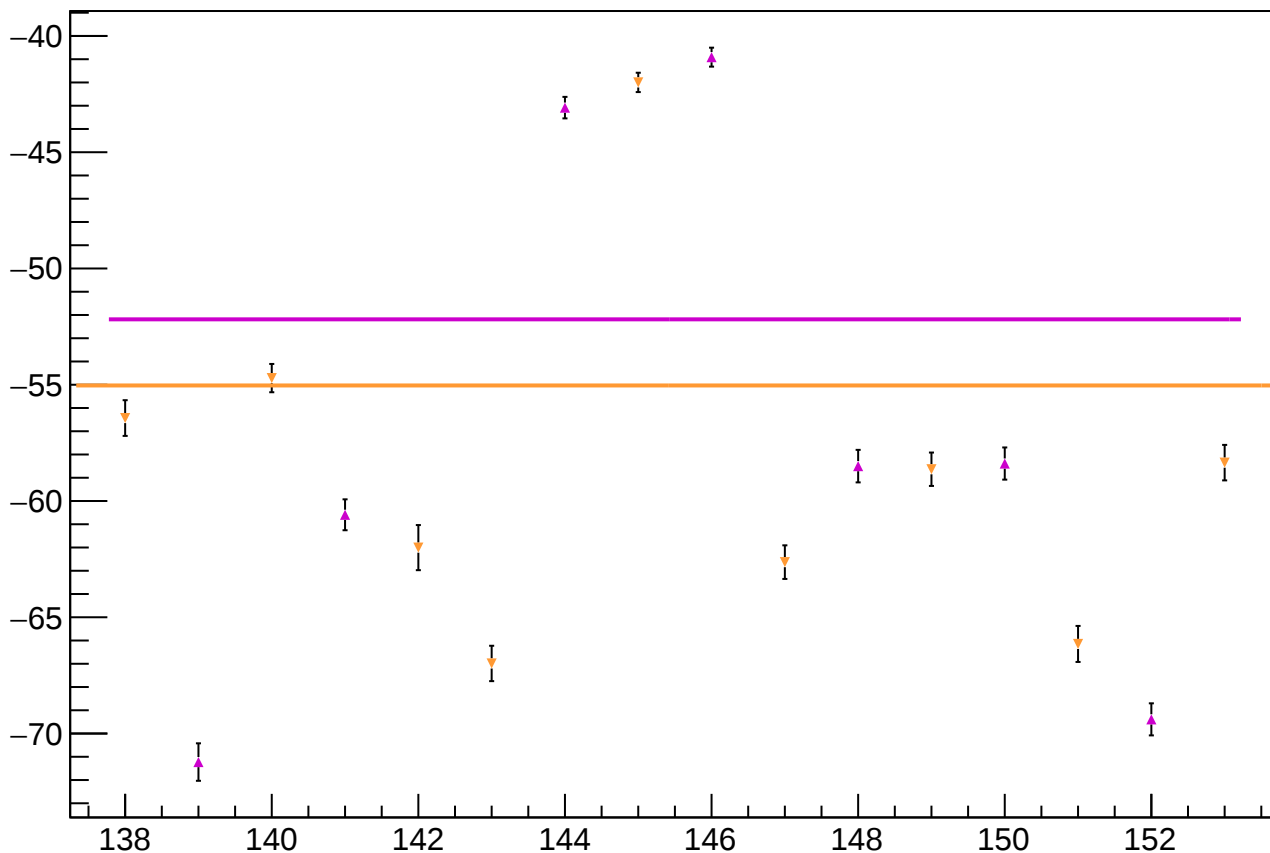
Left In: 3.070+/-0.148  $\chi^2/\text{NDF}$ :155.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

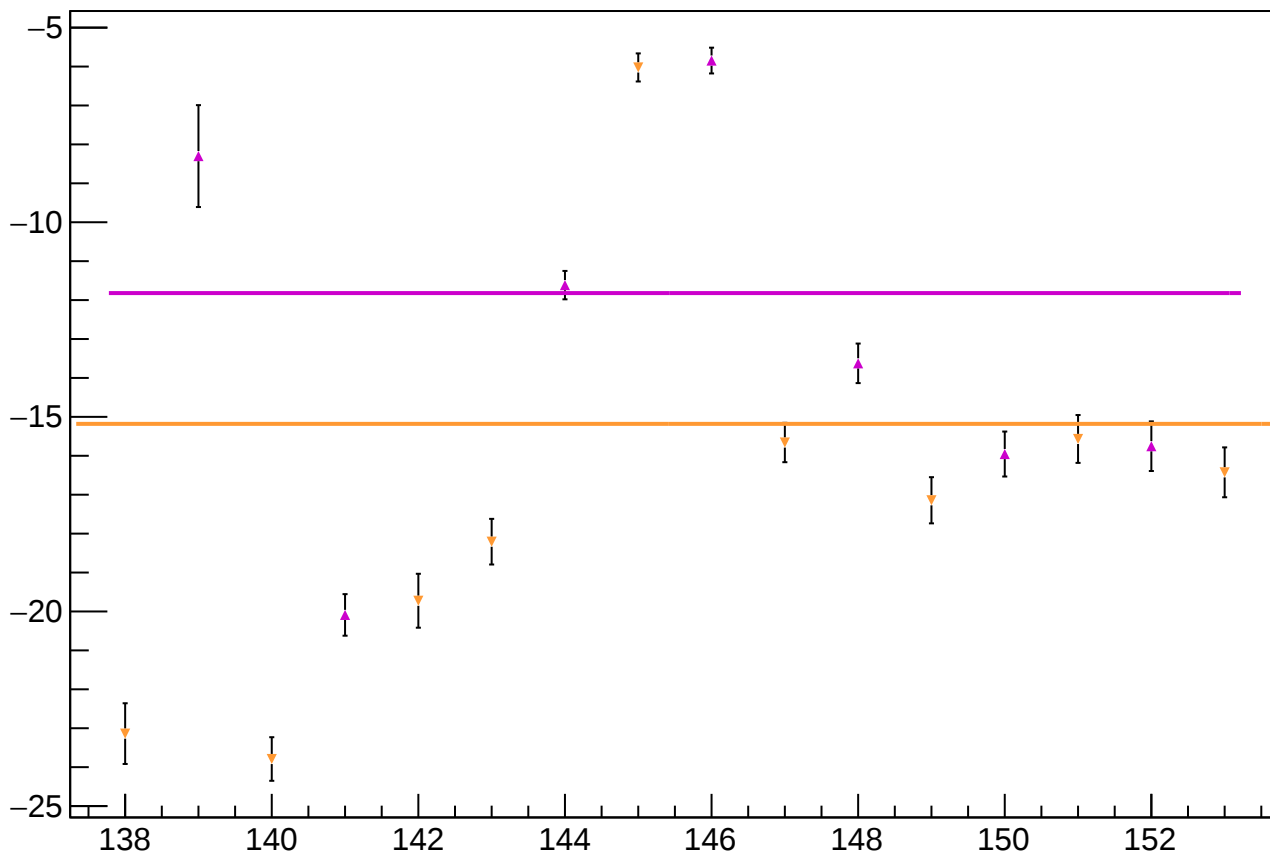
All: 3.493+/-0.106  $\chi^2/\text{NDF}$ : 354.2/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -15.180 $\pm$ 0.185  $\chi^2$ /NDF:1070.2/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

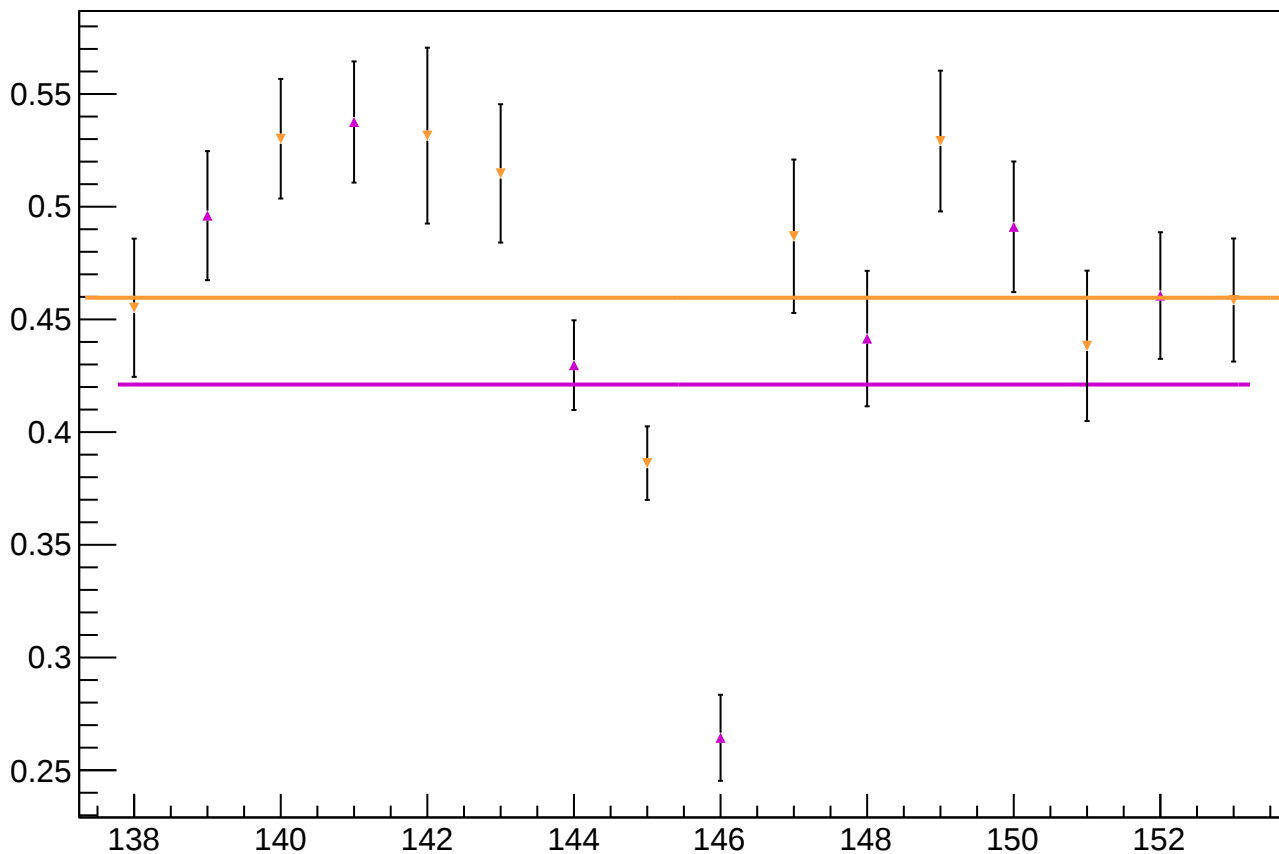
Left In: -11.820 $\pm$ 0.182  $\chi^2$ /NDF:674.7/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.480 $\pm$ 0.130  $\chi^2$ /NDF: 1912.6/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.460 $\pm$ 0.009  $\chi^2$ /NDF:40.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

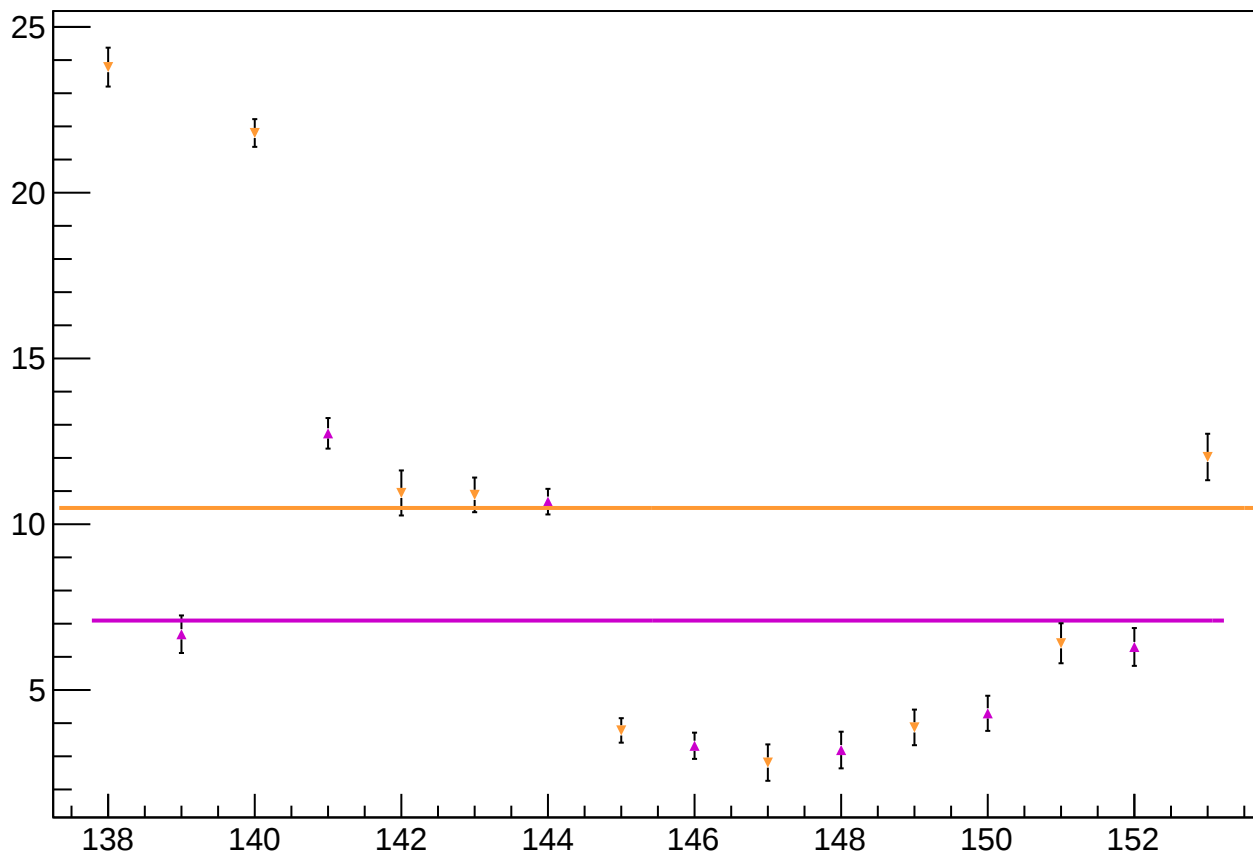
Left In: 0.421 $\pm$ 0.009  $\chi^2$ /NDF:101.5/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.441 $\pm$ 0.007  $\chi^2$ /NDF: 150.2/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 10.491+/-0.173  $\chi^2/\text{NDF}$ :1973.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

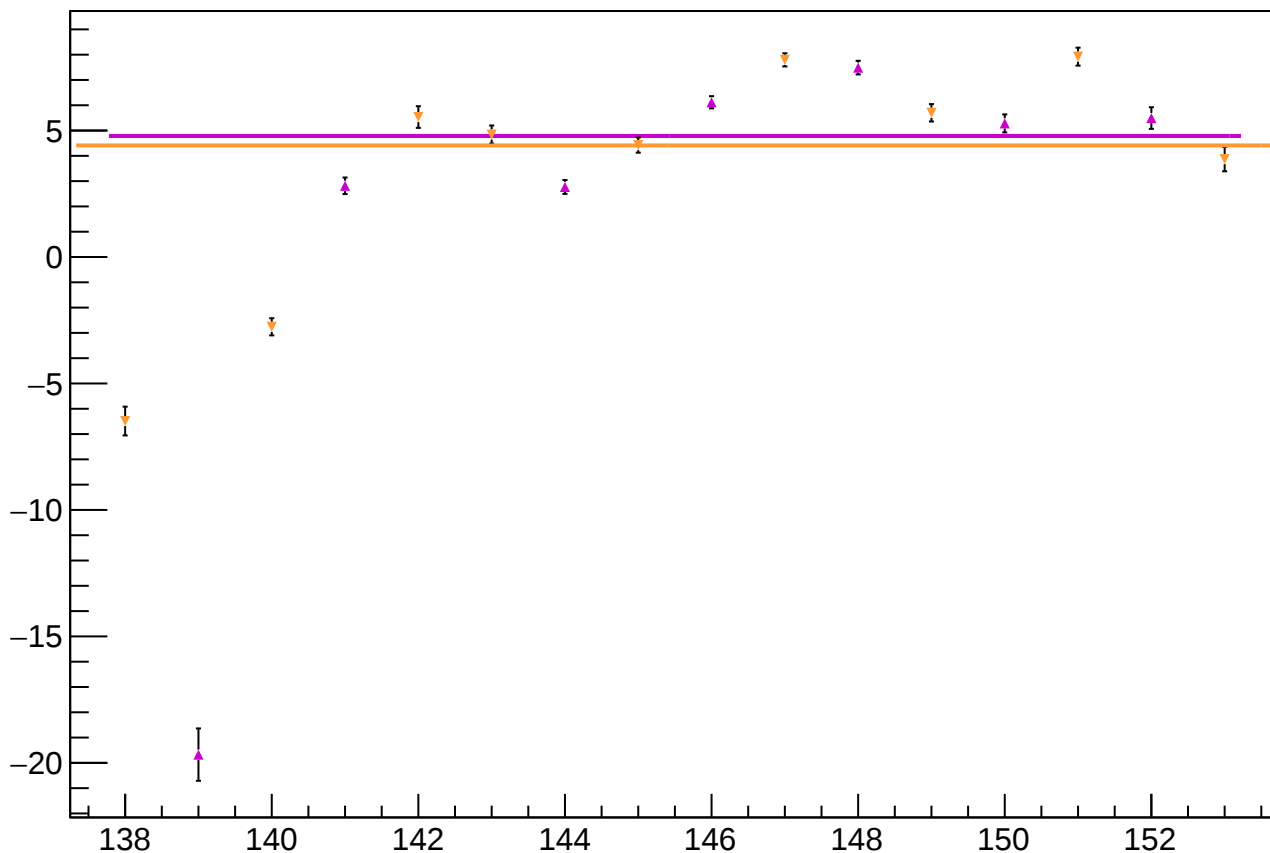
Left In: 7.095+/-0.180  $\chi^2/\text{NDF}$ :407.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8.860+/-0.125  $\chi^2/\text{NDF}$ : 2566.3/15

- 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: 4.412+/-0.118  $\chi^2/\text{NDF}$ :1102.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

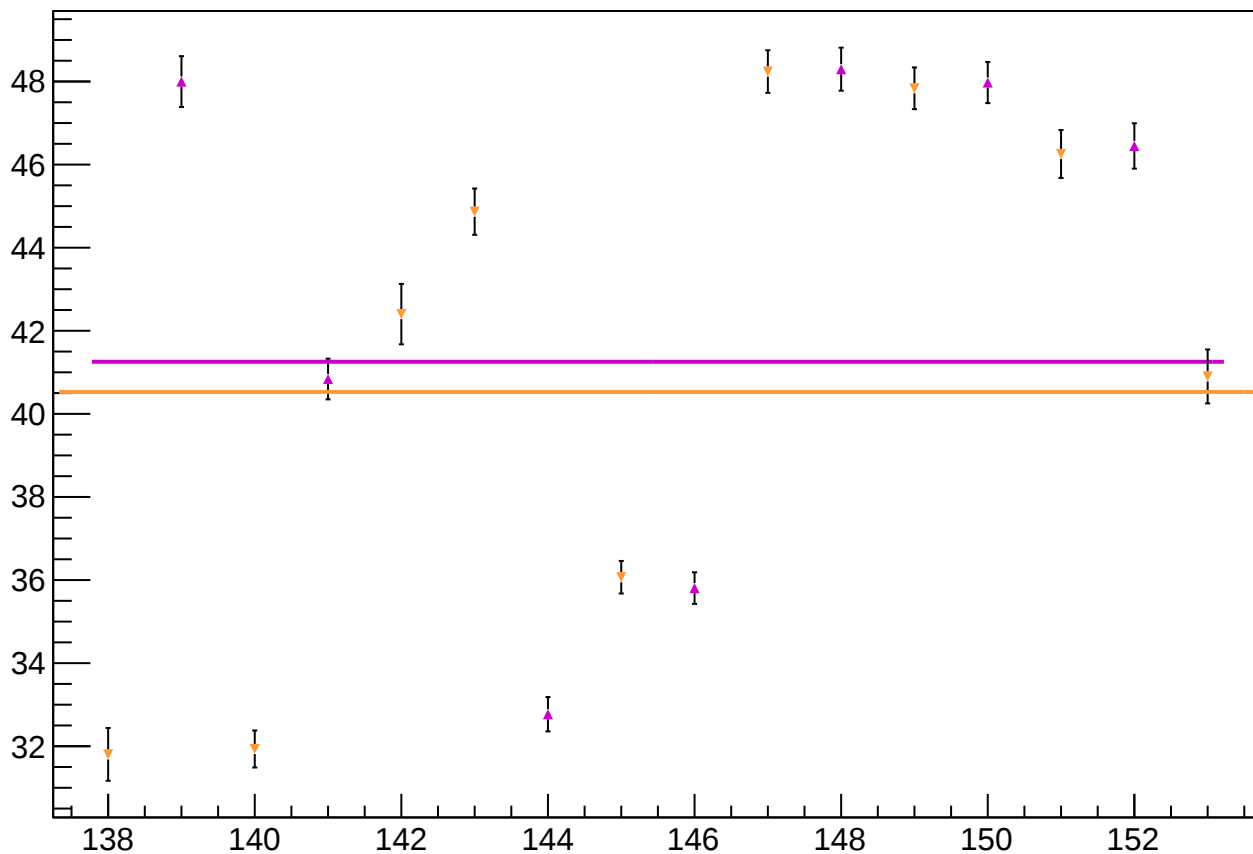
Left In: 4.786+/-0.121  $\chi^2/\text{NDF}$ :783.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.594+/-0.085  $\chi^2/\text{NDF}$ : 1890.9/15

- 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: 40.528+/-0.176  $\chi^2/\text{NDF}$ :1294.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

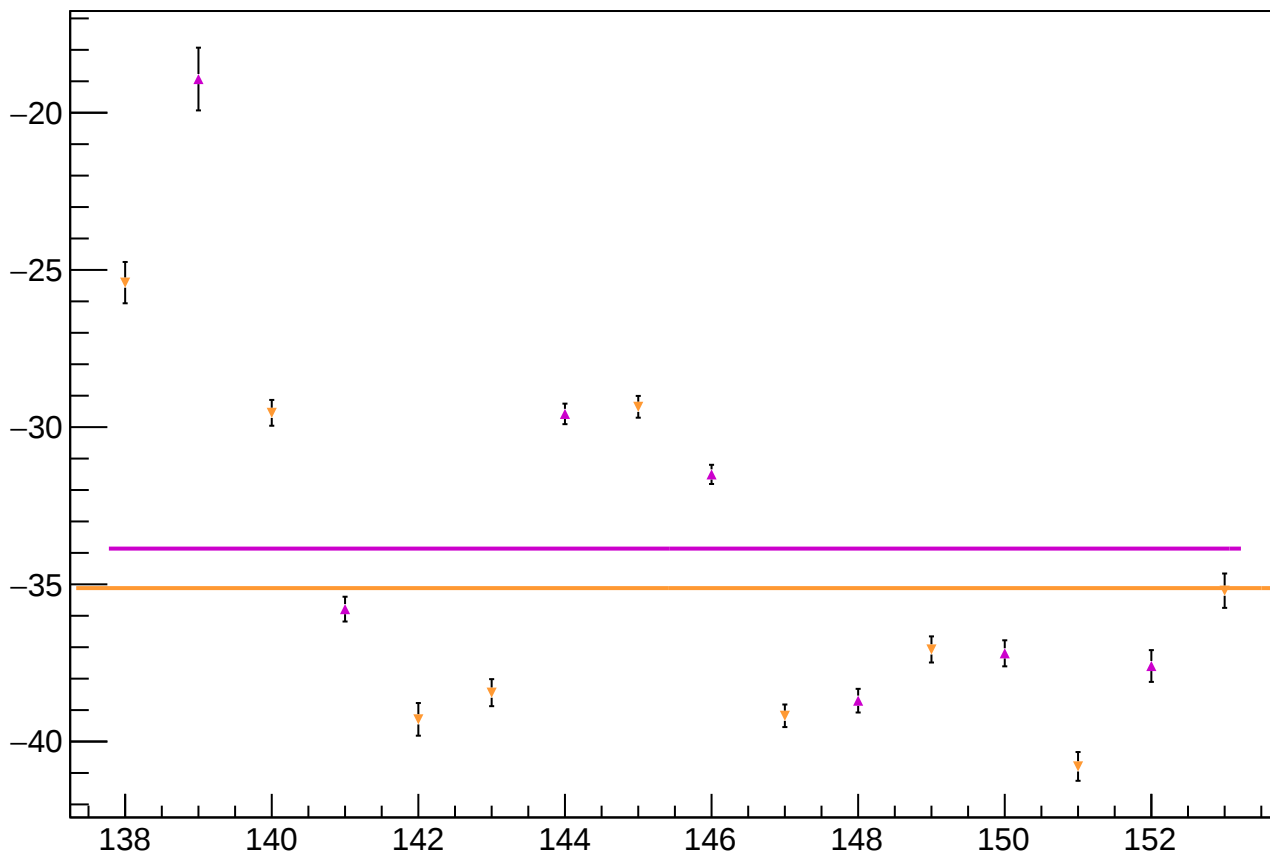
Left In: 41.254+/-0.180  $\chi^2/\text{NDF}$ :1207.8/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.882+/-0.126  $\chi^2/\text{NDF}$ : 2510.5/15

- 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: -35.120+/-0.145  $\chi^2/\text{NDF}$ : 1108.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

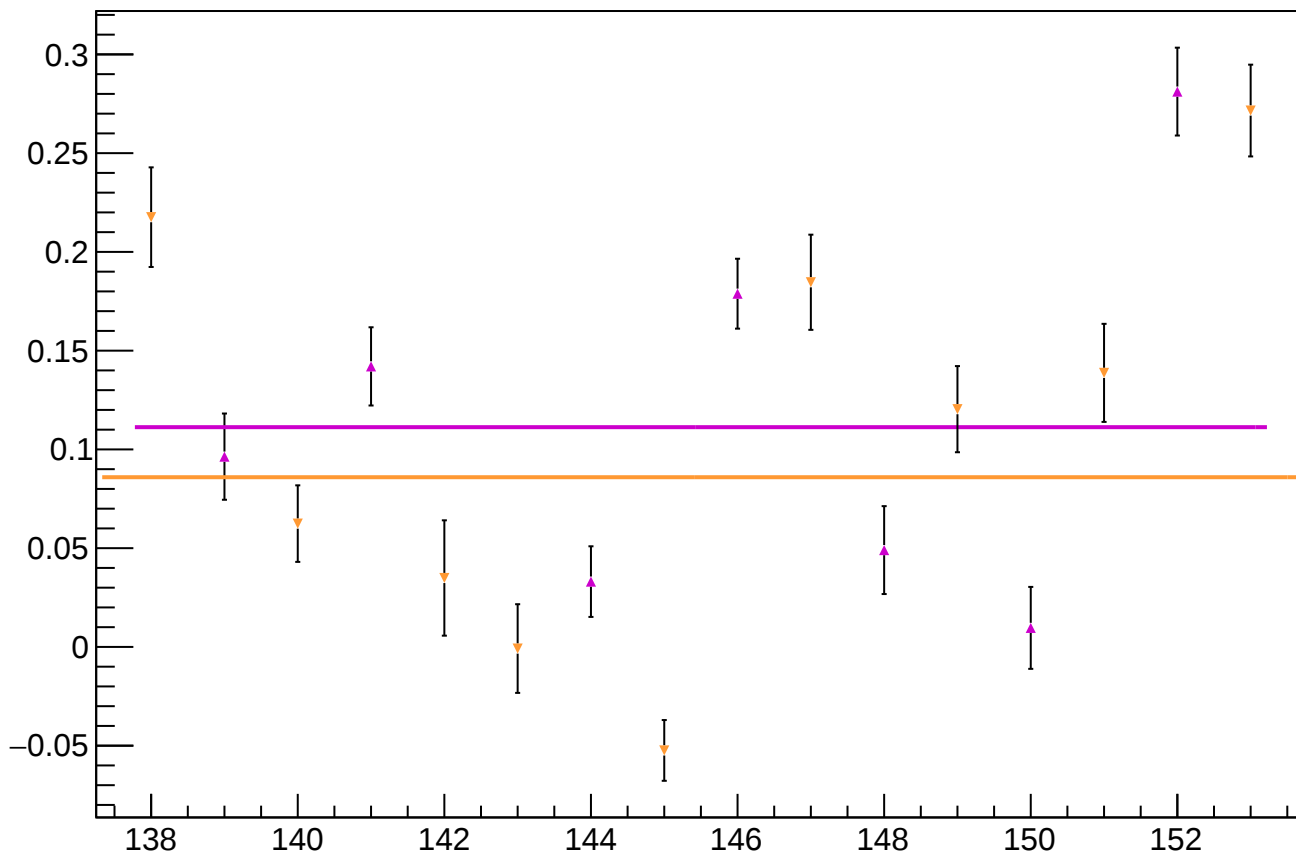
Left In: -33.863+/-0.150  $\chi^2/\text{NDF}$ : 764.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.512+/-0.104  $\chi^2/\text{NDF}$ : 1908.7/15

- 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: 0.086 $\pm$ 0.007  $\chi^2$ /NDF:215.3/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

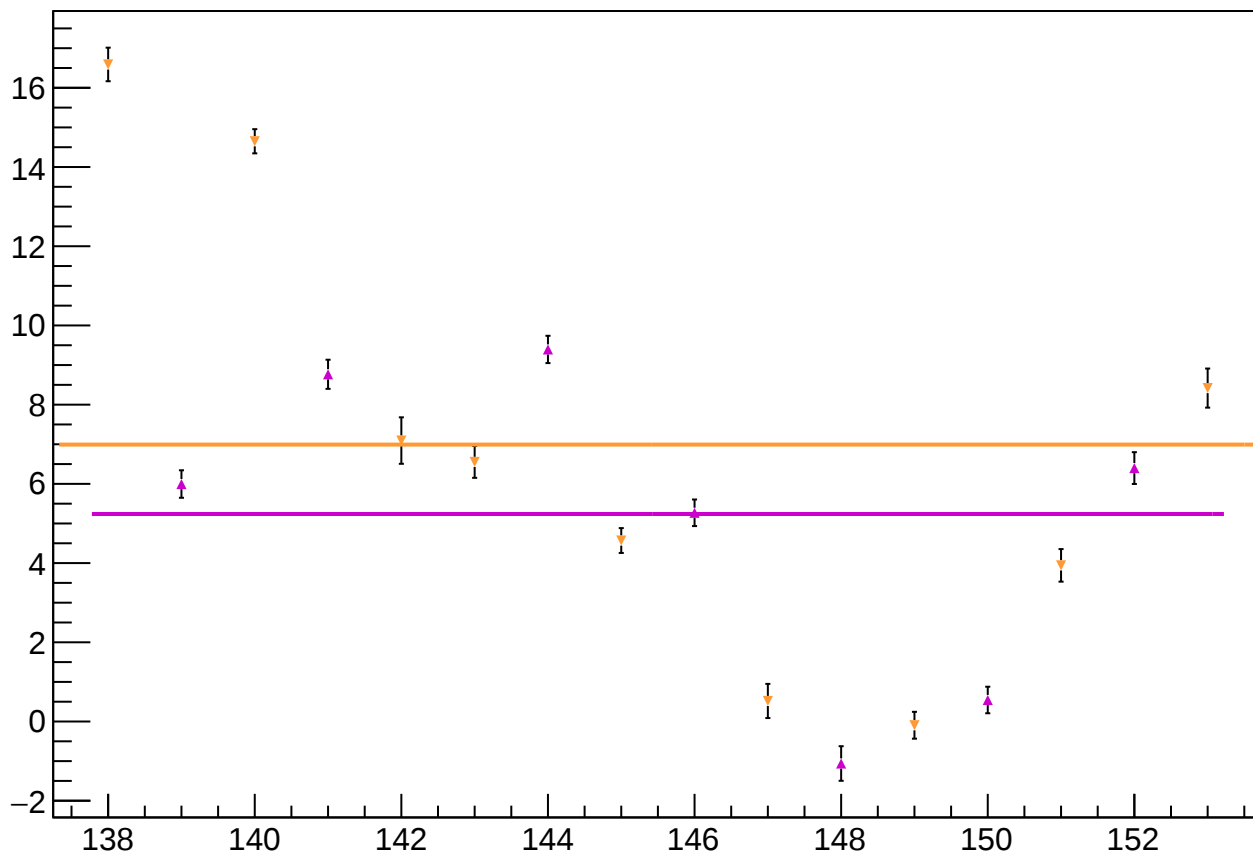
Left In: 0.111 $\pm$ 0.008  $\chi^2$ /NDF:126.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.098 $\pm$ 0.005  $\chi^2$ /NDF: 347.8/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

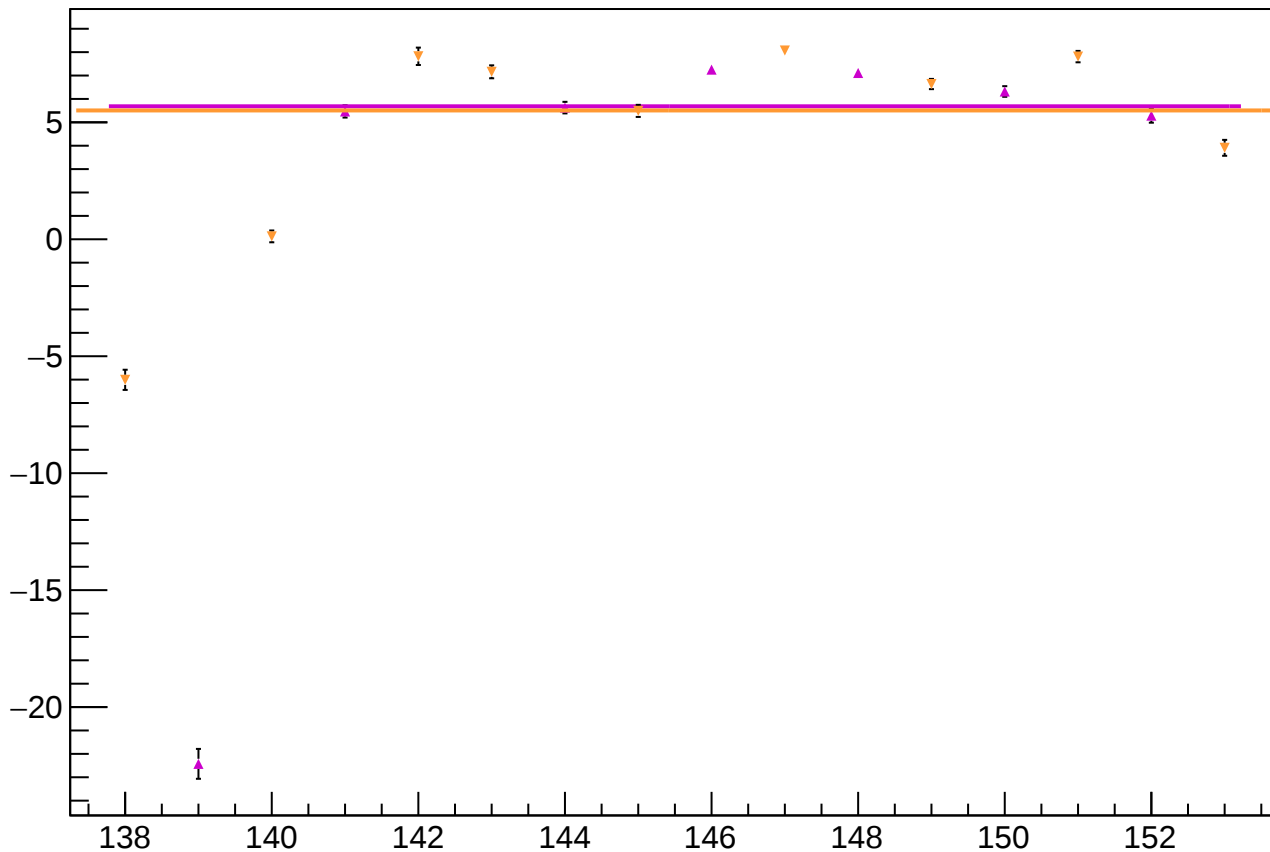
# reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.992+/-0.129  $\chi^2/\text{NDF}$ :1928.8/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.240+/-0.137  $\chi^2/\text{NDF}$ :655.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 6.164+/-0.094  $\chi^2/\text{NDF}$ : 2670.5/15  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5.508 $\pm$ 0.089  $\chi^2$ /NDF:1531.1/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

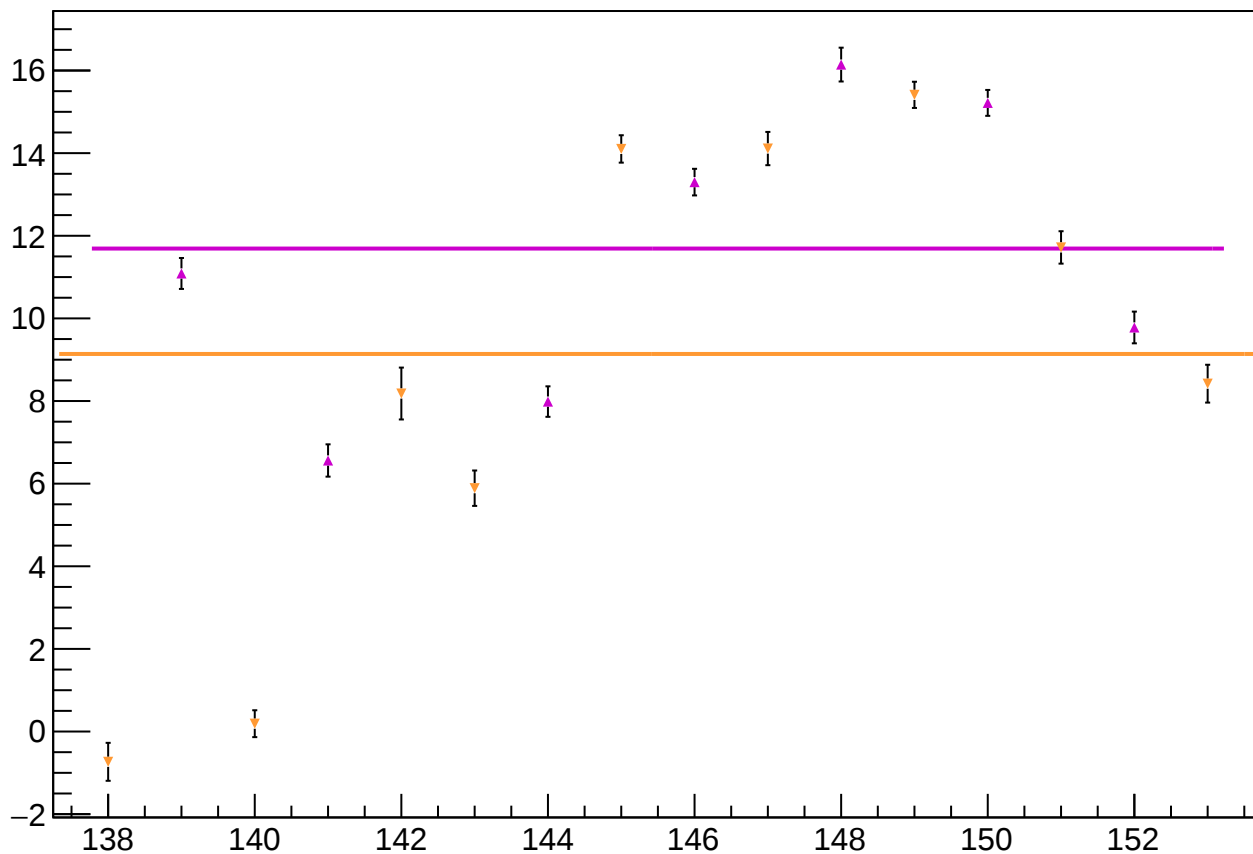
Left In: 5.685 $\pm$ 0.097  $\chi^2$ /NDF:2043.5/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.589 $\pm$ 0.066  $\chi^2$ /NDF: 3576.4/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

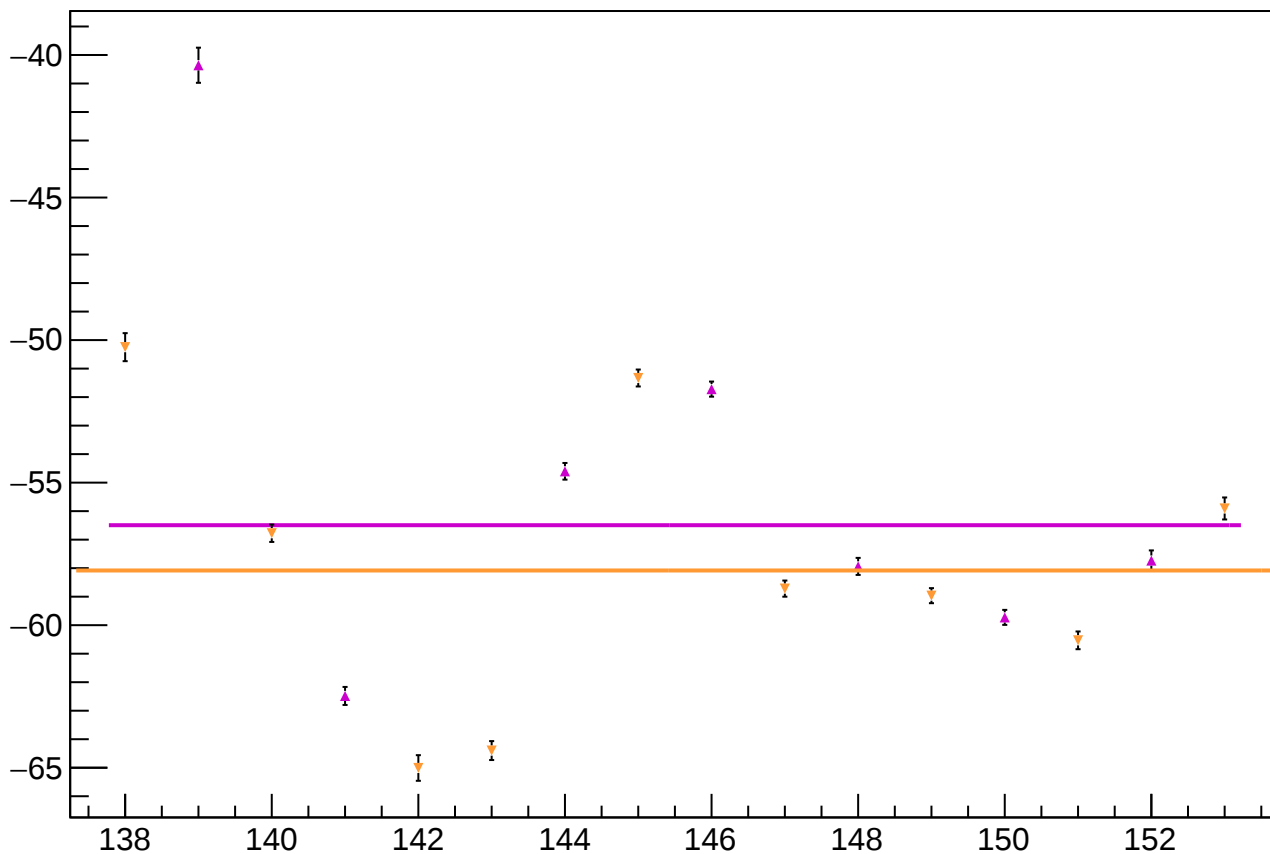
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 9.139+/-0.131     $\chi^2/\text{NDF}$ : 2091.7/8  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.690+/-0.137     $\chi^2/\text{NDF}$ : 569.9/6

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 All: 10.357+/-0.094     $\chi^2/\text{NDF}$ : 2843.9/15  
 - 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: -58.081+/-0.109  $\chi^2/\text{NDF}$ :1498.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

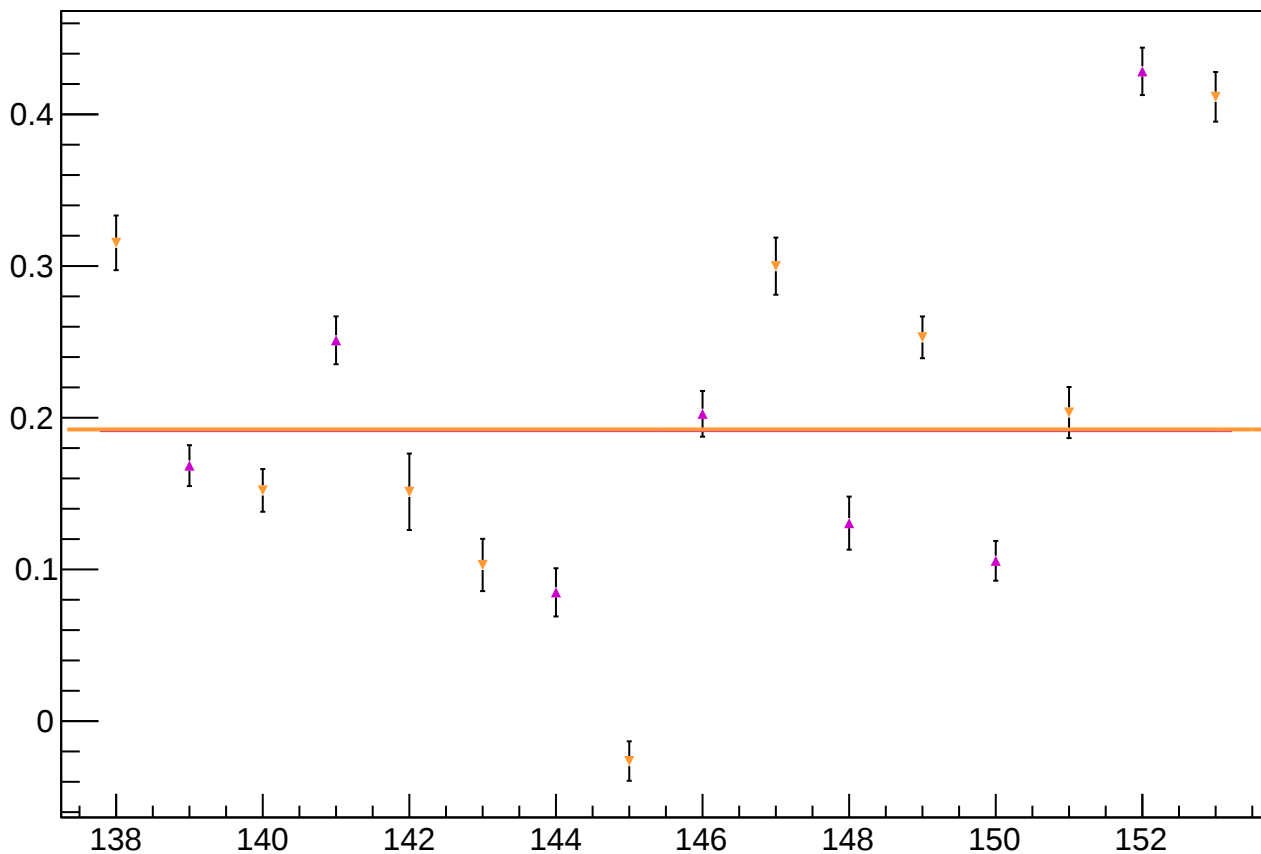
Left In: -56.493+/-0.118  $\chi^2/\text{NDF}$ :1597.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.348+/-0.080  $\chi^2/\text{NDF}$ : 3193.6/15

- 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: 0.192 $\pm$ 0.005  $\chi^2$ /NDF:598.5/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

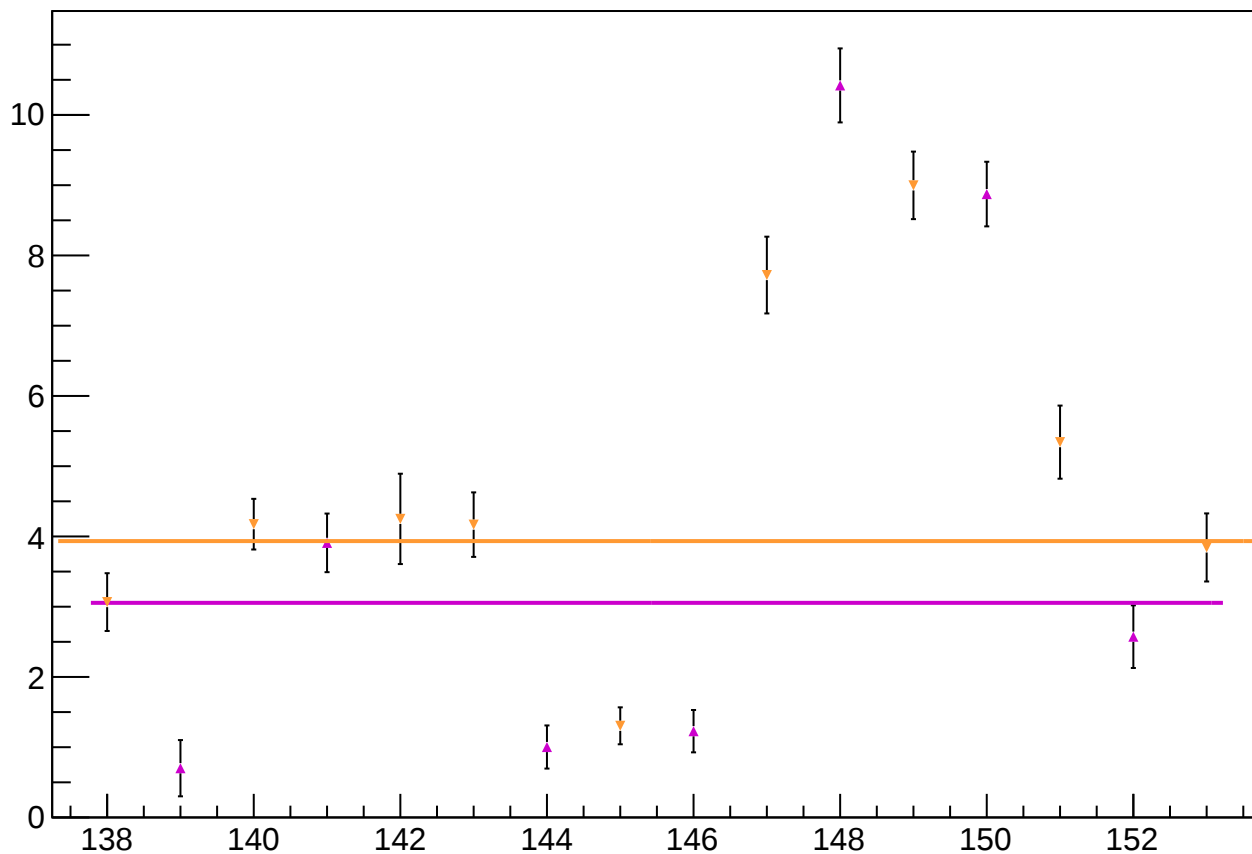
Left In: 0.192 $\pm$ 0.006  $\chi^2$ /NDF:347.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.192 $\pm$ 0.004  $\chi^2$ /NDF: 946.2/15

- 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: 3.934 $\pm$ 0.140  $\chi^2$ /NDF:271.8/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

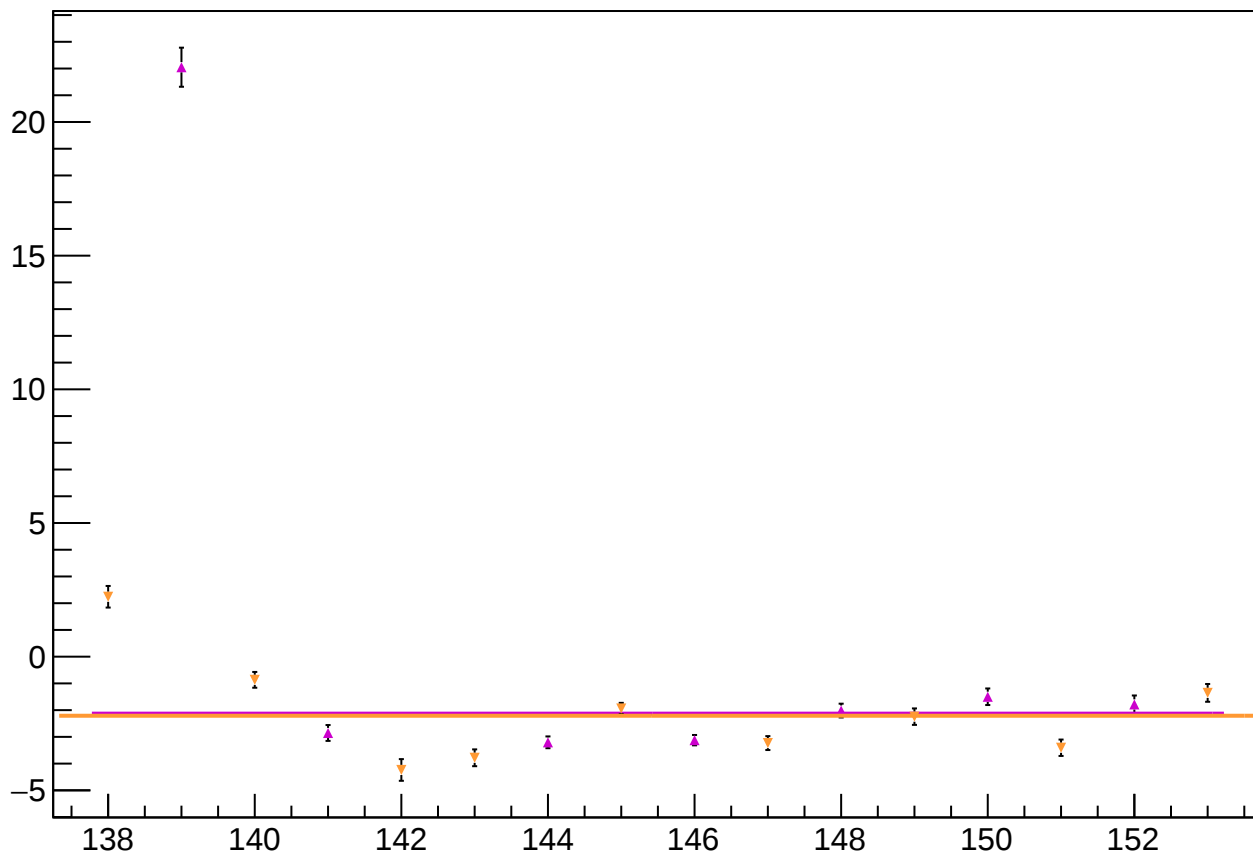
Left In: 3.055 $\pm$ 0.146  $\chi^2$ /NDF:476.9/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.512 $\pm$ 0.101  $\chi^2$ /NDF: 767.6/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

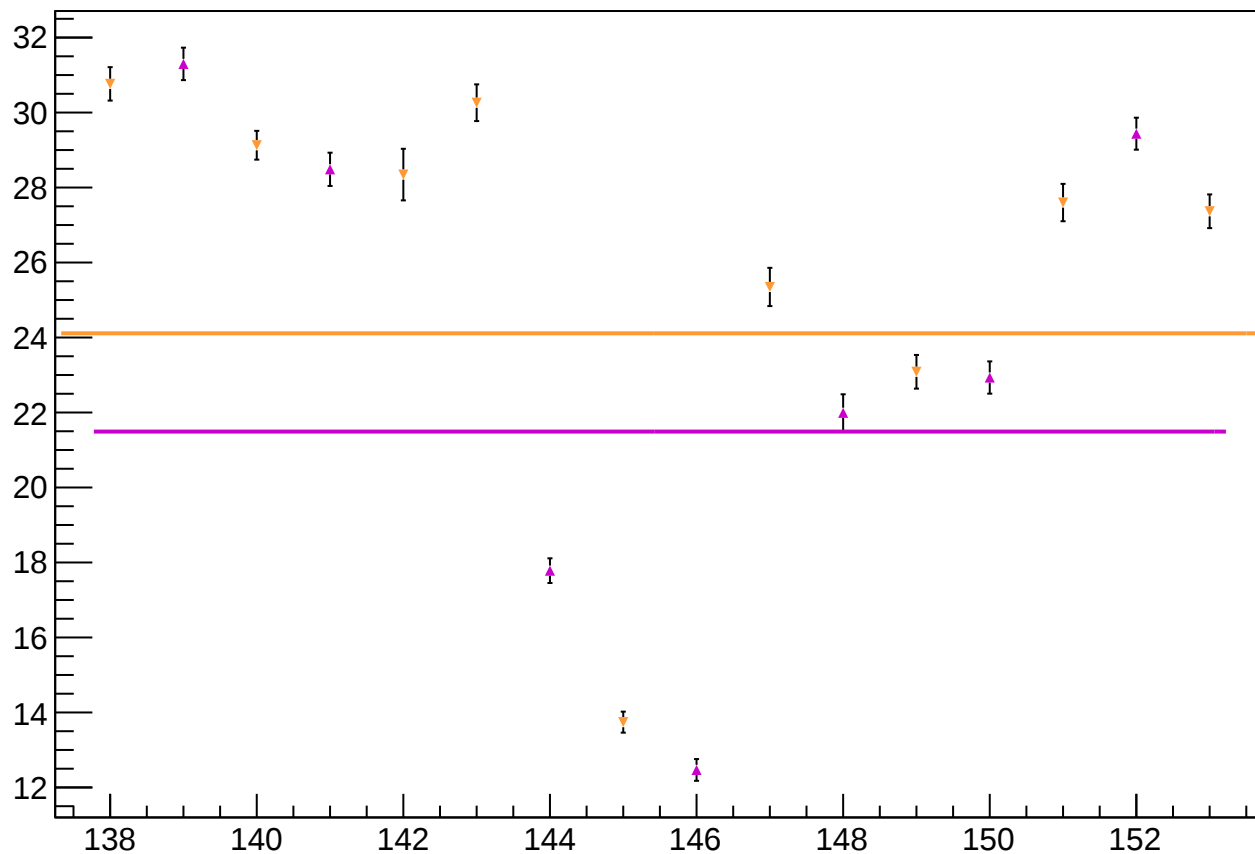
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.210+/-0.099  $\chi^2/\text{NDF}$ : 230.9/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.132+/-0.103  $\chi^2/\text{NDF}$ : 1155.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -2.172+/-0.071  $\chi^2/\text{NDF}$ : 1386.5/15  
 - 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: 24.112+/-0.143  $\chi^2/\text{NDF}$ :2069.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

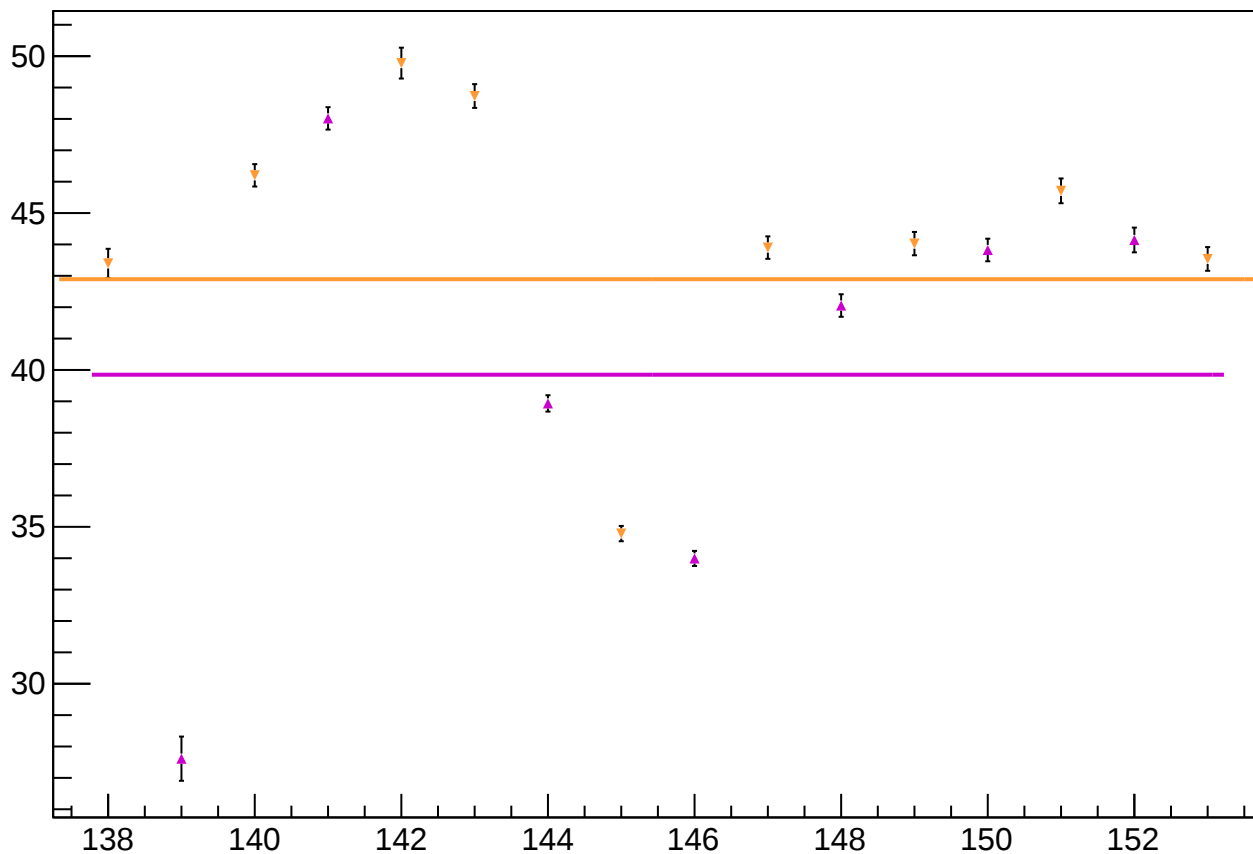
Left In: 21.491+/-0.147  $\chi^2/\text{NDF}$ :2216.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.830+/-0.103  $\chi^2/\text{NDF}$ : 4449.5/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

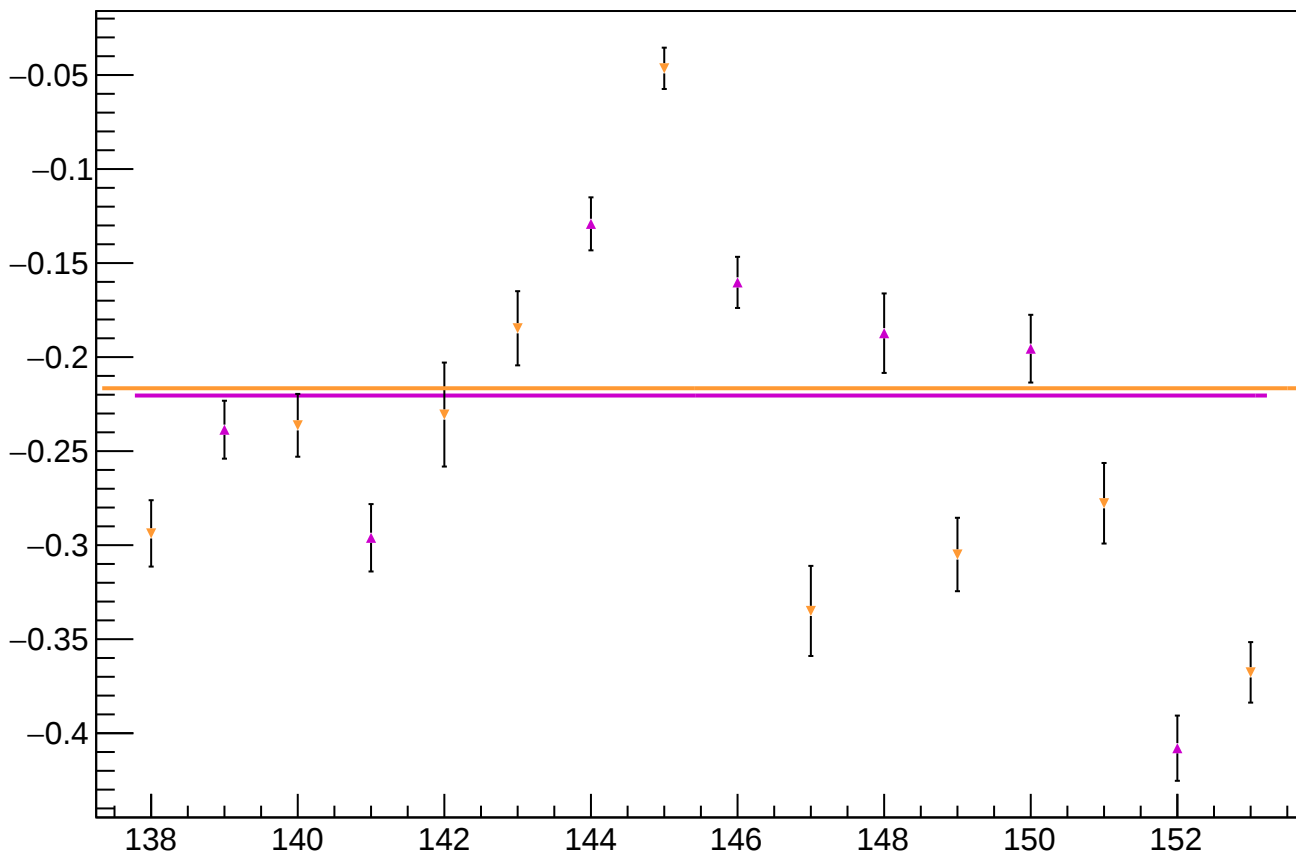
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 42.892+/-0.121  $\chi^2/\text{NDF}$ : 1696.7/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 39.848+/-0.125  $\chi^2/\text{NDF}$ : 1706.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 41.429+/-0.087  $\chi^2/\text{NDF}$ : 3710.0/15  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.217 $\pm$ 0.006  $\chi^2$ /NDF:404.5/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

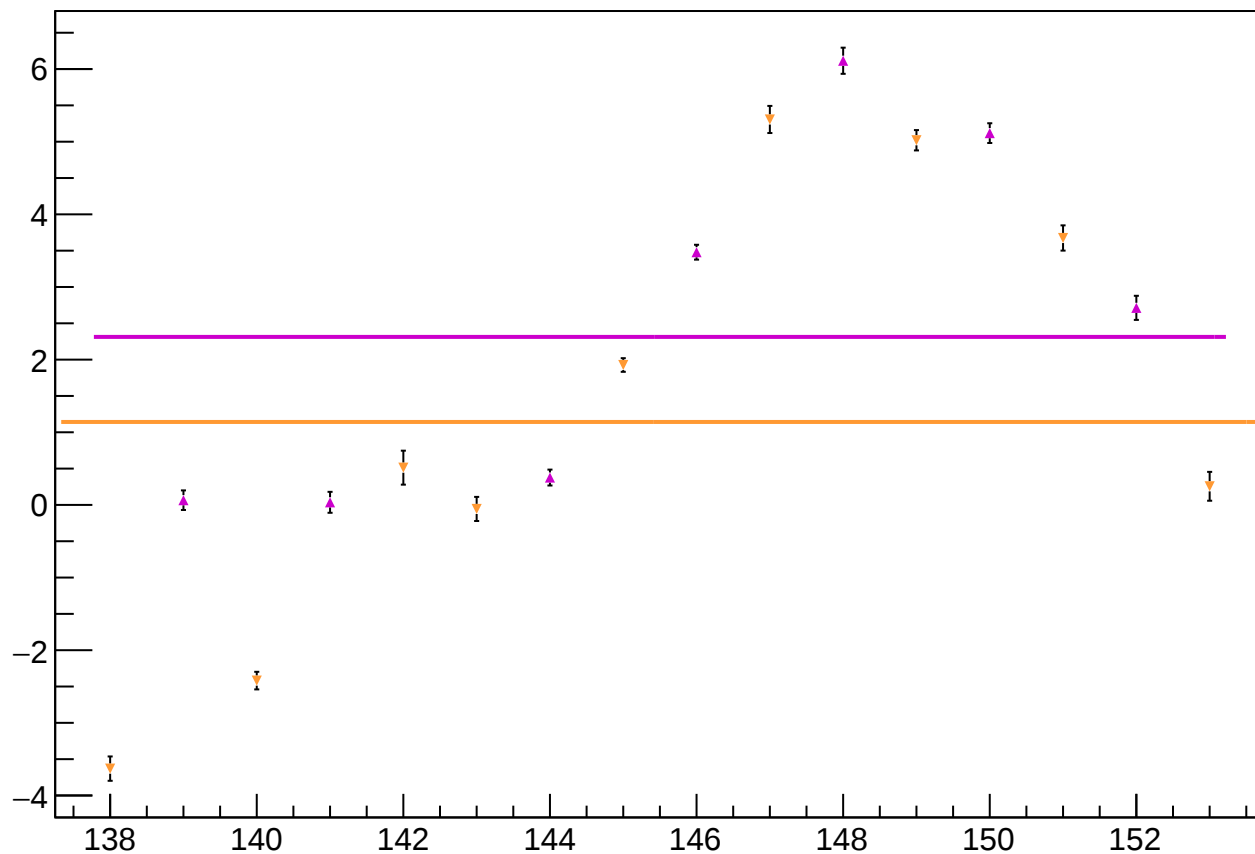
Left In: -0.220 $\pm$ 0.006  $\chi^2$ /NDF:202.1/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.218 $\pm$ 0.004  $\chi^2$ /NDF: 606.8/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

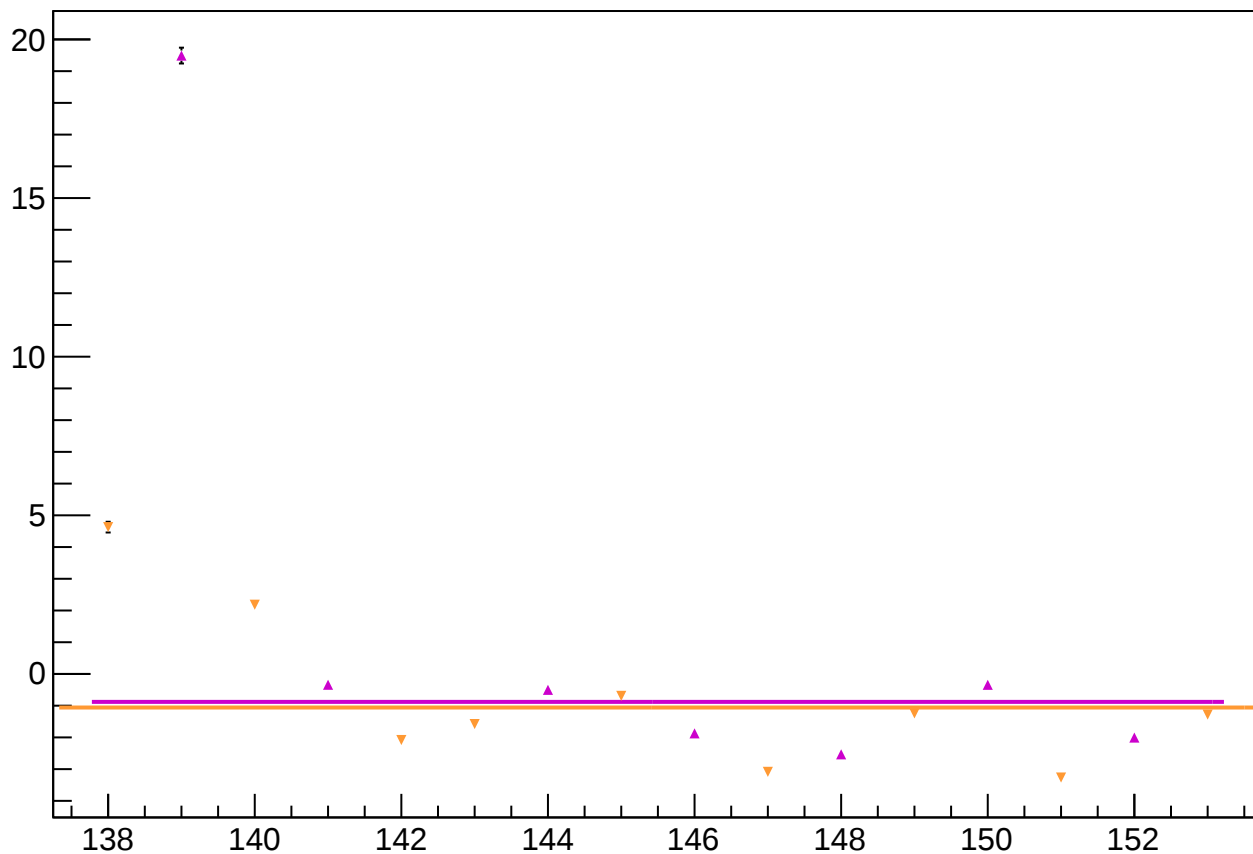
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 1.142 $\pm$ 0.049  $\chi^2$ /NDF:3302.5/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.313 $\pm$ 0.050  $\chi^2$ /NDF:1848.8/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.723 $\pm$ 0.035  $\chi^2$ /NDF: 5430.1/15  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

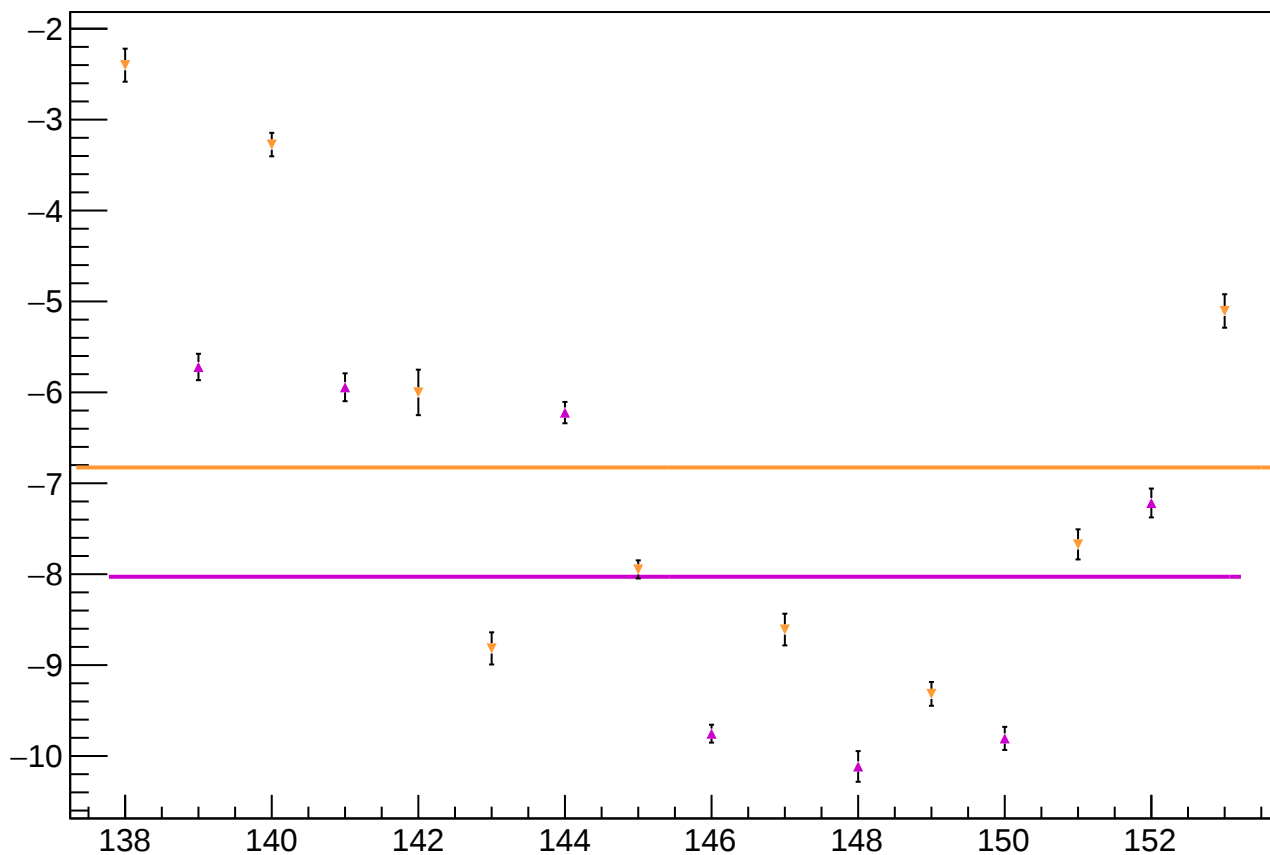
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.058+/-0.035  $\chi^2/\text{NDF}$ : 3250.2/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.880+/-0.035  $\chi^2/\text{NDF}$ : 7415.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -0.970+/-0.025  $\chi^2/\text{NDF}$ : 10678.8/15  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

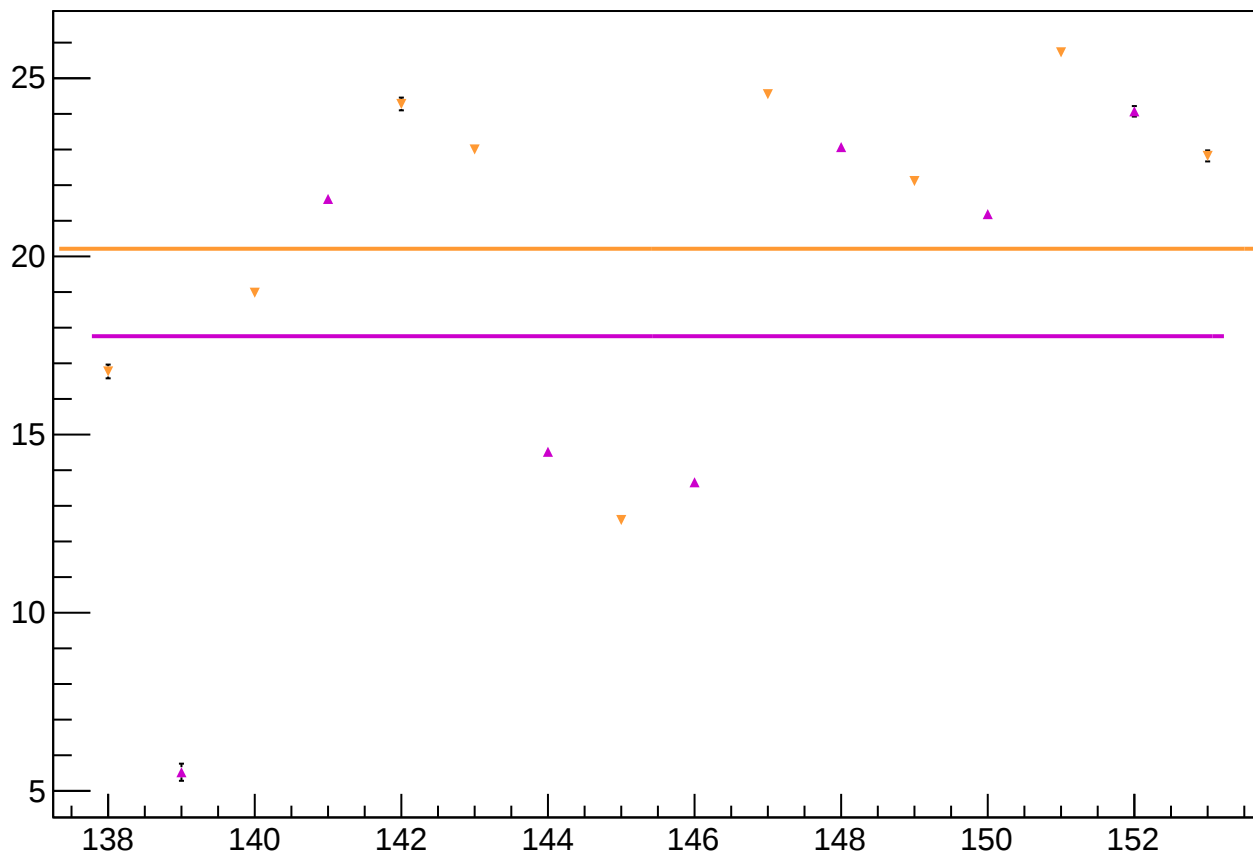
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.826+/-0.050  $\chi^2/\text{NDF}$ : 2195.2/8  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.028+/-0.050  $\chi^2/\text{NDF}$ : 1355.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -7.432+/-0.035  $\chi^2/\text{NDF}$ : 3839.4/15  
 - 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: 20.215+/-0.042  $\chi^2/\text{NDF}$ :12393.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

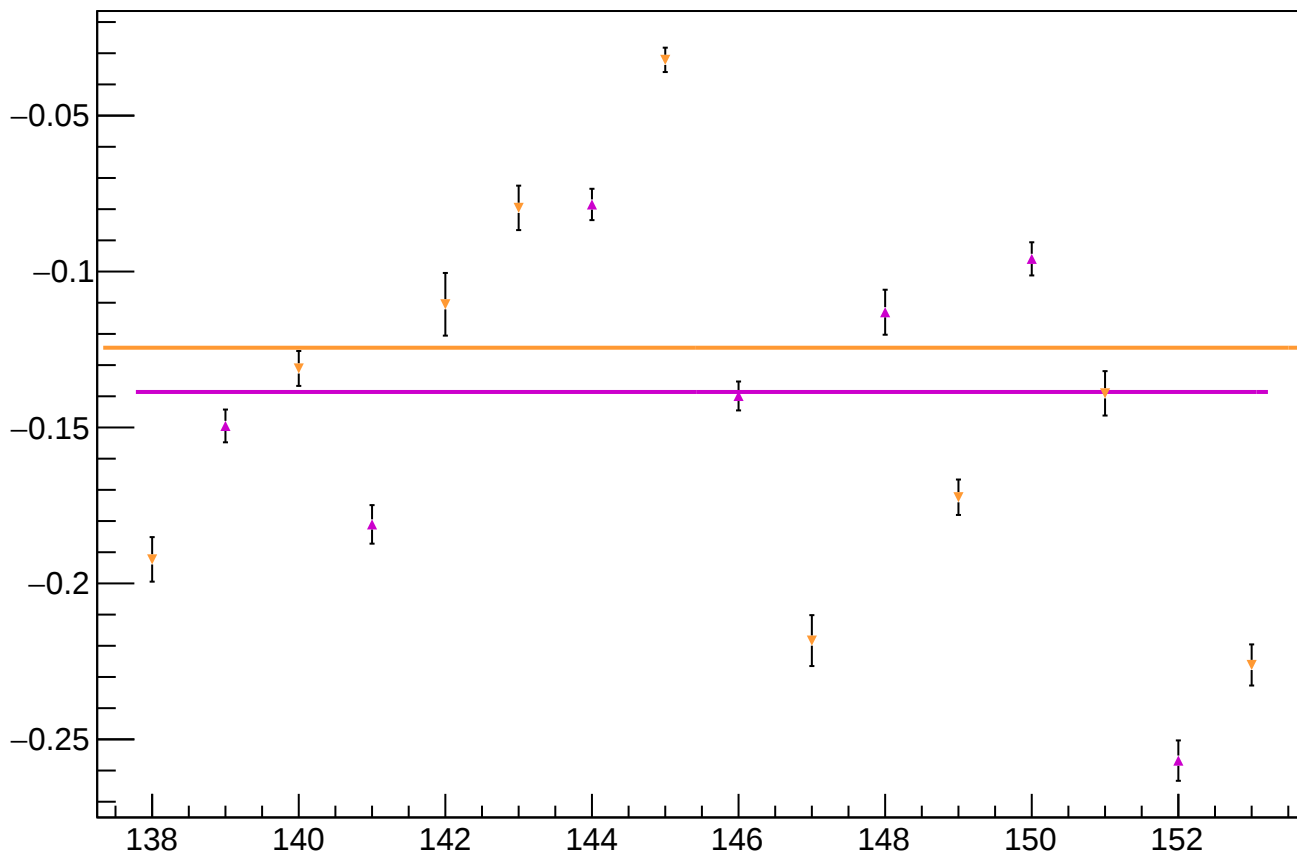
Left In: 17.761+/-0.043  $\chi^2/\text{NDF}$ :11977.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.003+/-0.030  $\chi^2/\text{NDF}$ : 26033.9/15

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.124+/-0.002  $\chi^2/\text{NDF}$ : 1137.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

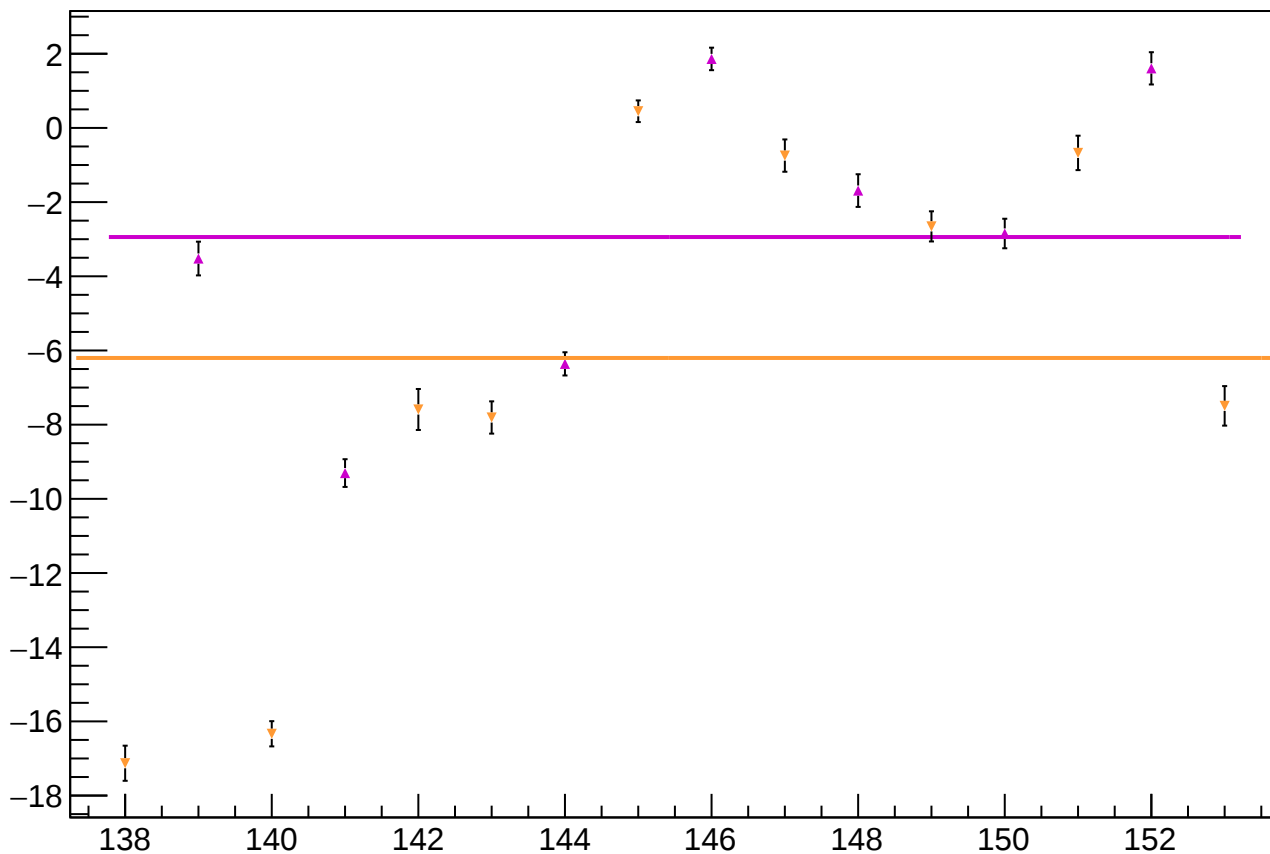
Left In: -0.139+/-0.002  $\chi^2/\text{NDF}$ : 605.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.131+/-0.001  $\chi^2/\text{NDF}$ : 1765.7/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -6.202+/-0.138  $\chi^2/\text{NDF}$ : 2340.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

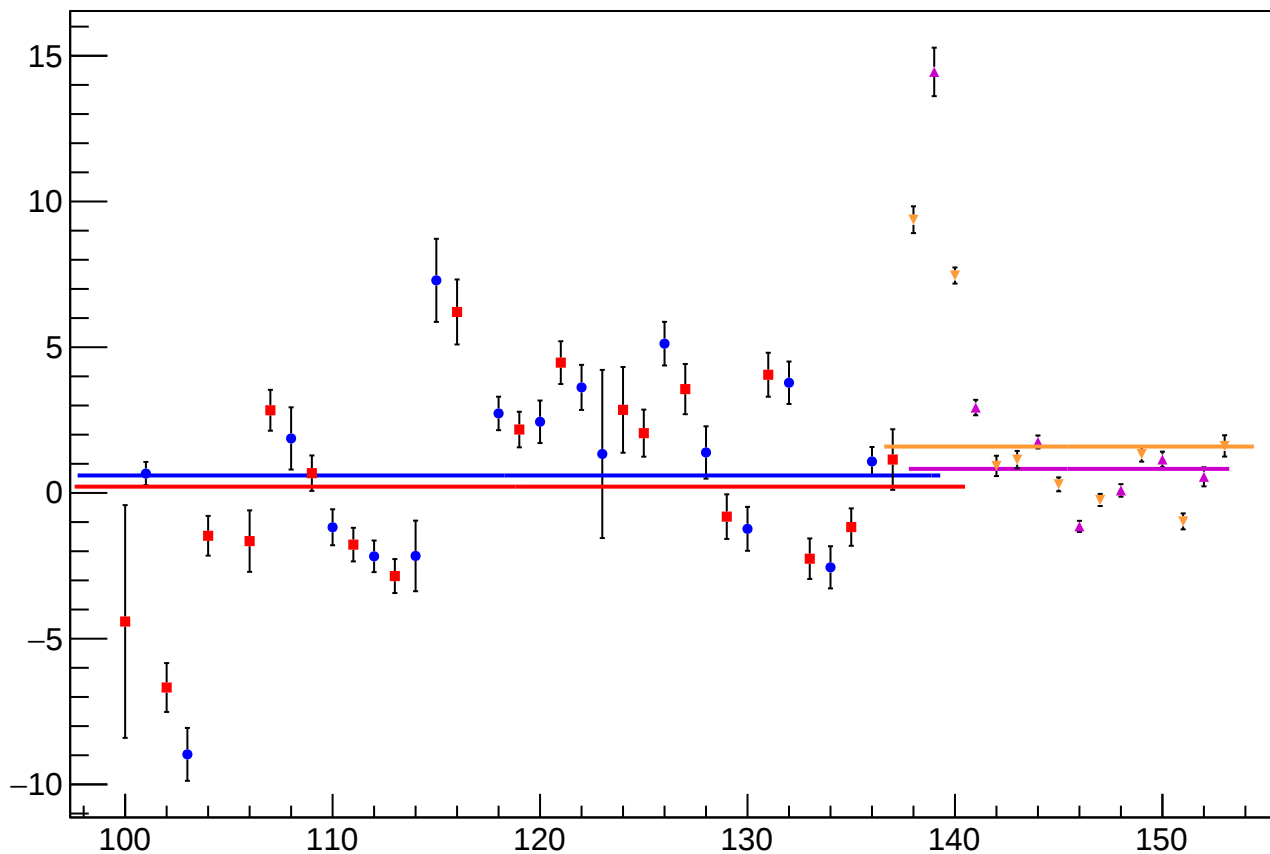
Left In: -2.941+/-0.142  $\chi^2/\text{NDF}$ : 778.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.620+/-0.099  $\chi^2/\text{NDF}$ : 3391.6/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.600 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 291.9/16

Left Out: 1.591 $\pm$ 0.094  $\chi^2/\text{NDF}$ : 940.7/8

Right Out: 0.216 $\pm$ 0.175  $\chi^2/\text{NDF}$ : 274.5/18

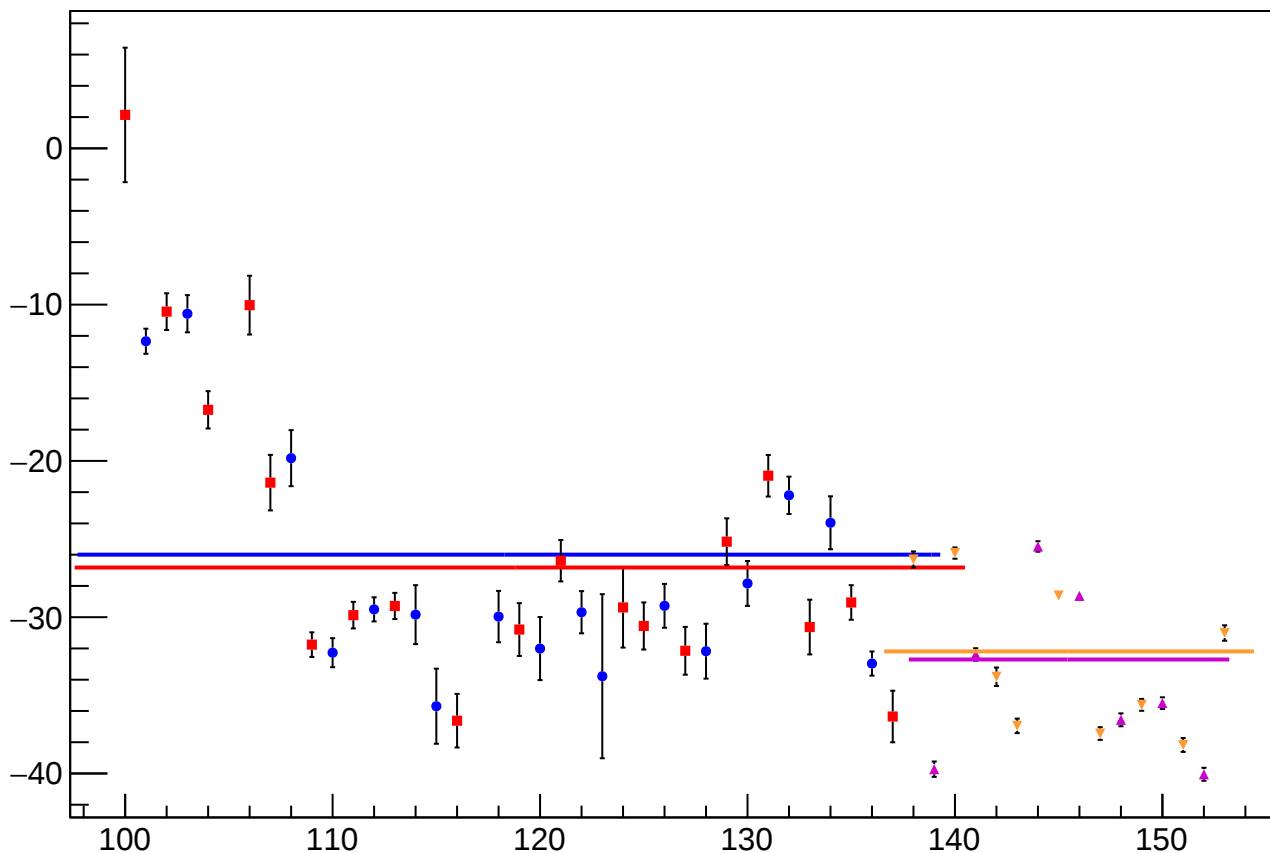
Left In: 0.826 $\pm$ 0.096  $\chi^2/\text{NDF}$ : 469.1/6

+ sign 1.358 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 1258.9/25

All: 1.030 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 2044.8/51

- sign 0.684 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 752.9/25

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-25.998 \pm 0.300$   $\chi^2/\text{NDF}$ : 692.6/16

Left Out:  $-32.190 \pm 0.139$   $\chi^2/\text{NDF}$ : 1115.8/8

Right Out:  $-26.821 \pm 0.298$   $\chi^2/\text{NDF}$ : 580.9/18

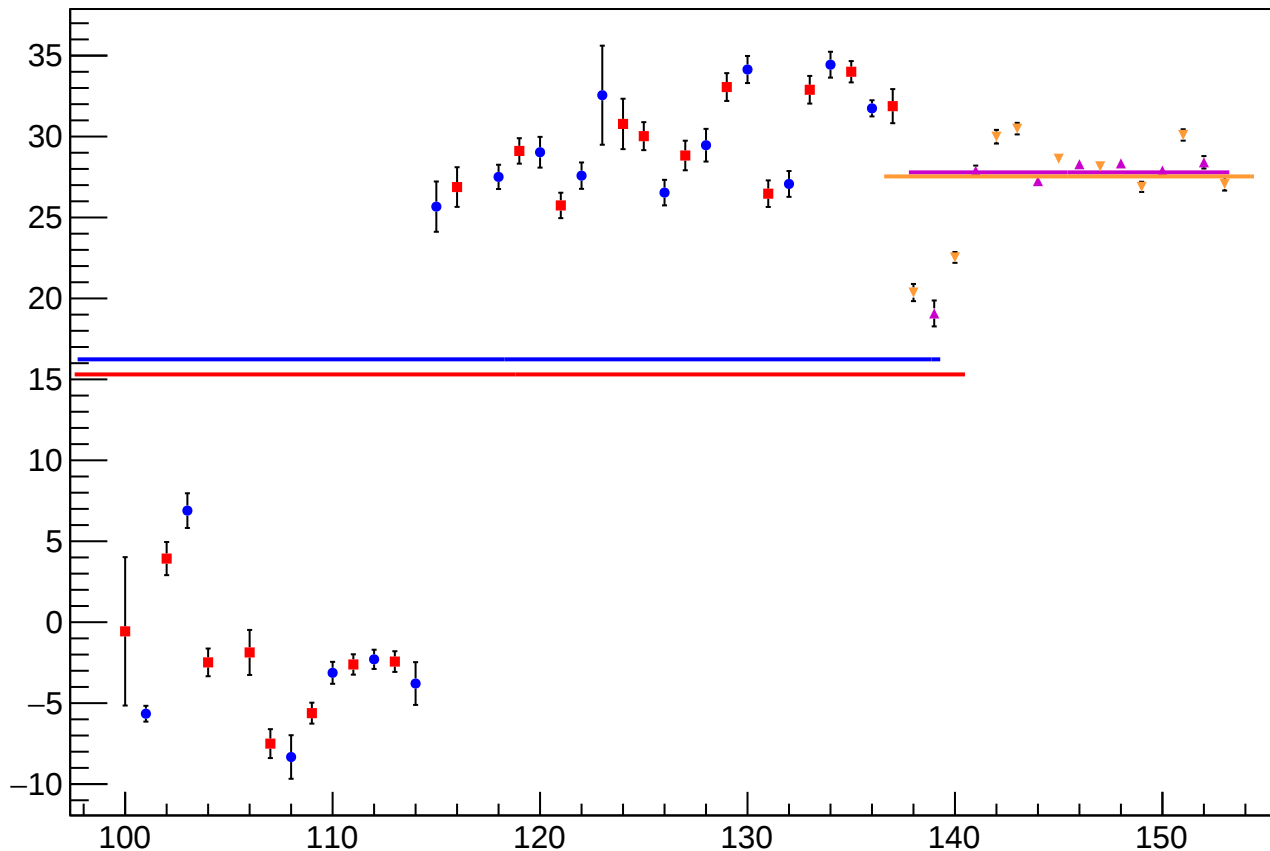
Left In:  $-32.707 \pm 0.141$   $\chi^2/\text{NDF}$ : 1319.8/6

+ sign  $-31.092 \pm 0.126$   $\chi^2/\text{NDF}$ : 2158.6/25

All:  $-31.354 \pm 0.090$   $\chi^2/\text{NDF}$ : 4387.2/51

- sign  $-31.622 \pm 0.128$   $\chi^2/\text{NDF}$ : 2219.9/25

# 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: 27.537 $\pm$ 0.115  $\chi^2$ /NDF: 588.0/8

Right Out: 15.306 $\pm$ 0.197  $\chi^2$ /NDF: 7271.7/18

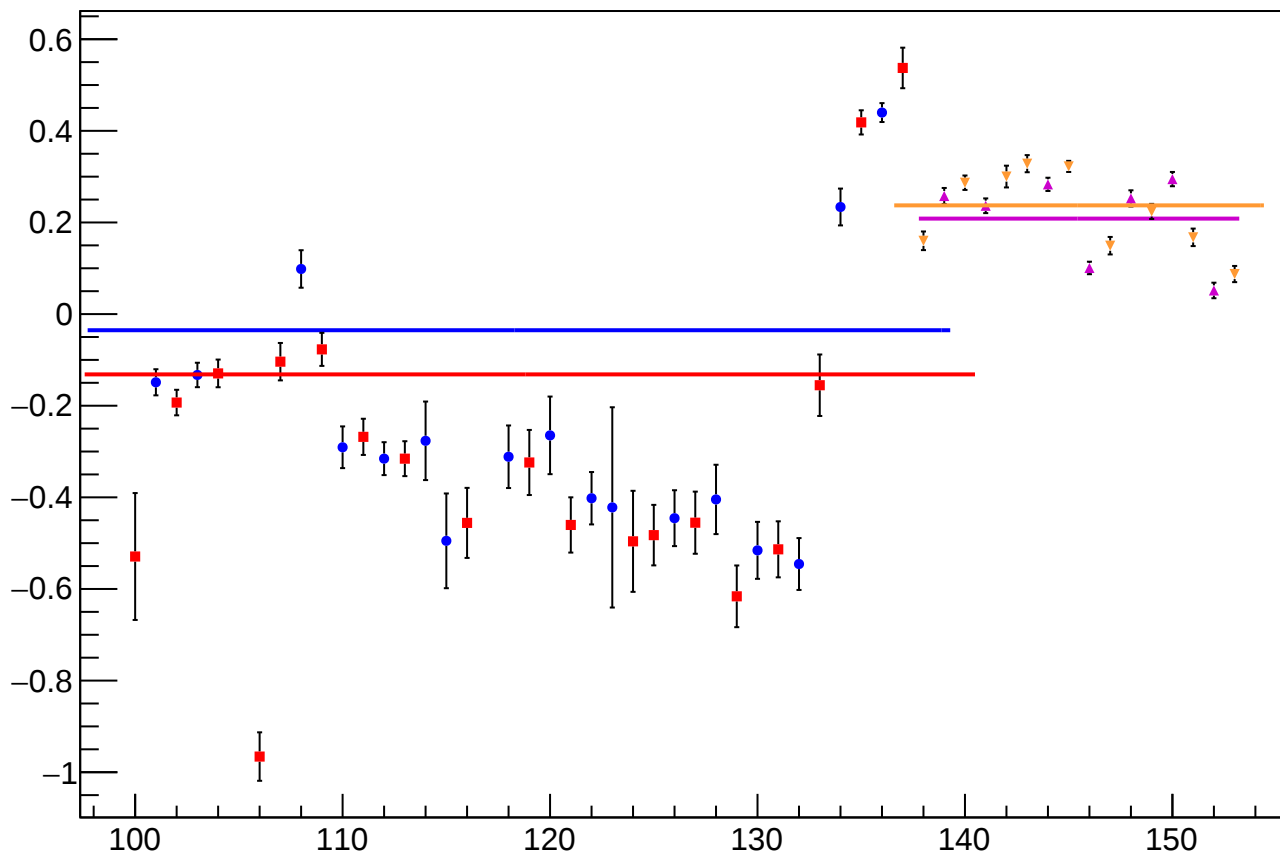
Left In: 27.787 $\pm$ 0.118  $\chi^2$ /NDF: 133.0/6

+ sign 24.533 $\pm$ 0.099  $\chi^2$ /NDF: 10727.2/25

All: 24.504 $\pm$ 0.071  $\chi^2$ /NDF: 21081.2/51

- sign 24.473 $\pm$ 0.102  $\chi^2$ /NDF: 10353.8/25

# 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:  $0.237 \pm 0.006$   $\chi^2/\text{NDF}$ : 211.3/8

Right Out:  $-0.132 \pm 0.010$   $\chi^2/\text{NDF}$ : 1169.8/18

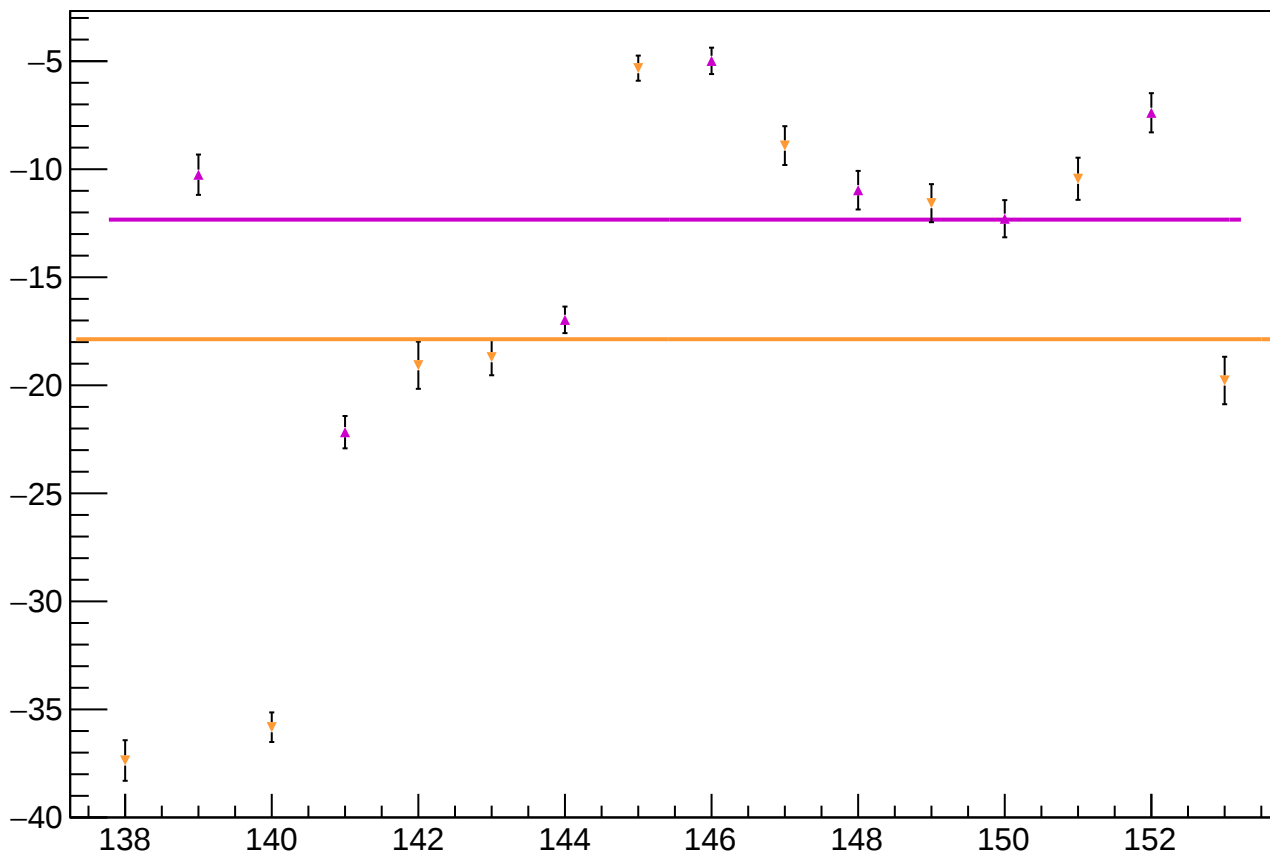
Left In:  $0.208 \pm 0.006$   $\chi^2/\text{NDF}$ : 222.1/6

+ sign  $0.173 \pm 0.005$   $\chi^2/\text{NDF}$ : 1756.9/25

All:  $0.149 \pm 0.004$   $\chi^2/\text{NDF}$ : 4003.9/51

- sign  $0.124 \pm 0.005$   $\chi^2/\text{NDF}$ : 2200.6/25

# 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: -17.868+/-0.278  $\chi^2/\text{NDF}$ :1797.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

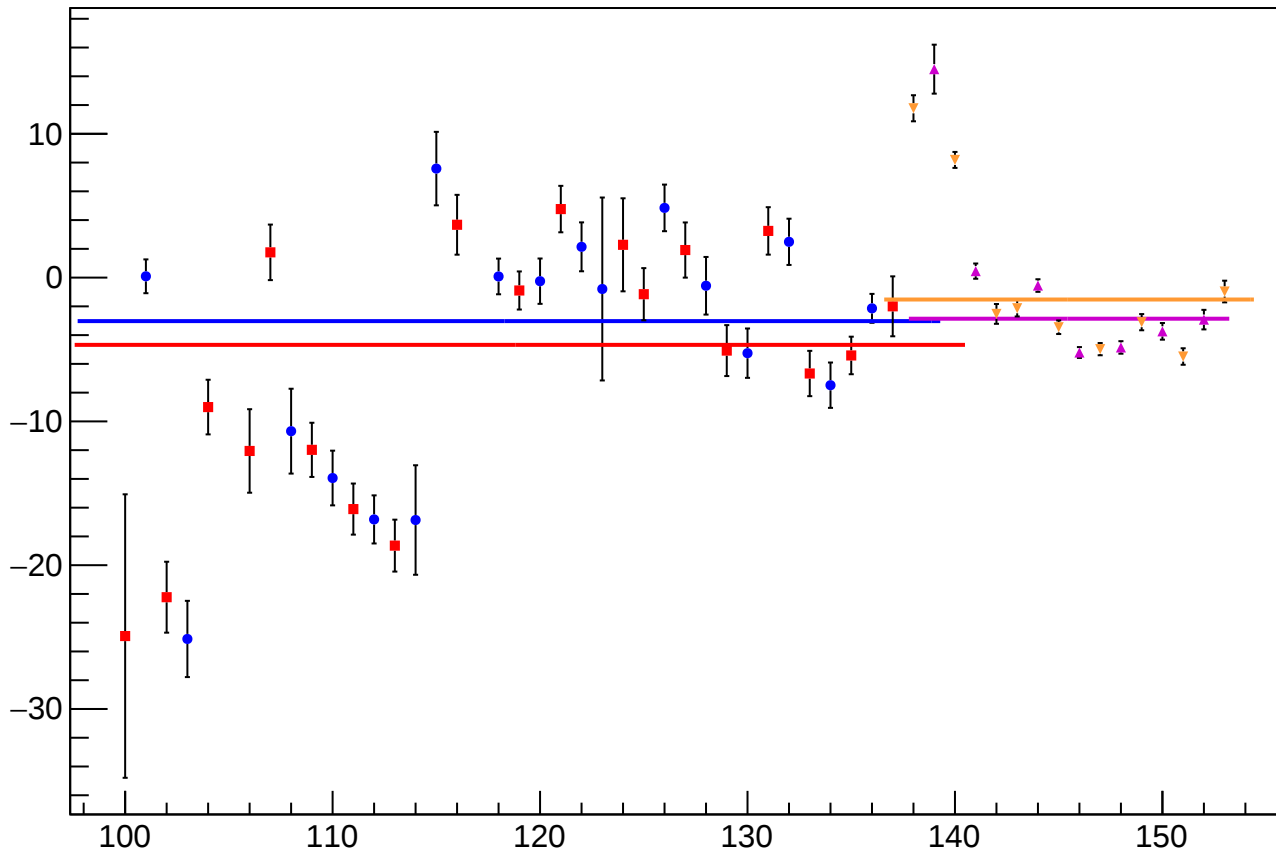
Left In: -12.333+/-0.288  $\chi^2/\text{NDF}$ :411.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.190+/-0.200  $\chi^2/\text{NDF}$ : 2400.6/15

- 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:  $-1.523 \pm 0.190$   $\chi^2/\text{NDF}$ : 662.6/8

Right Out:  $-4.678 \pm 0.426$   $\chi^2/\text{NDF}$ : 299.1/18

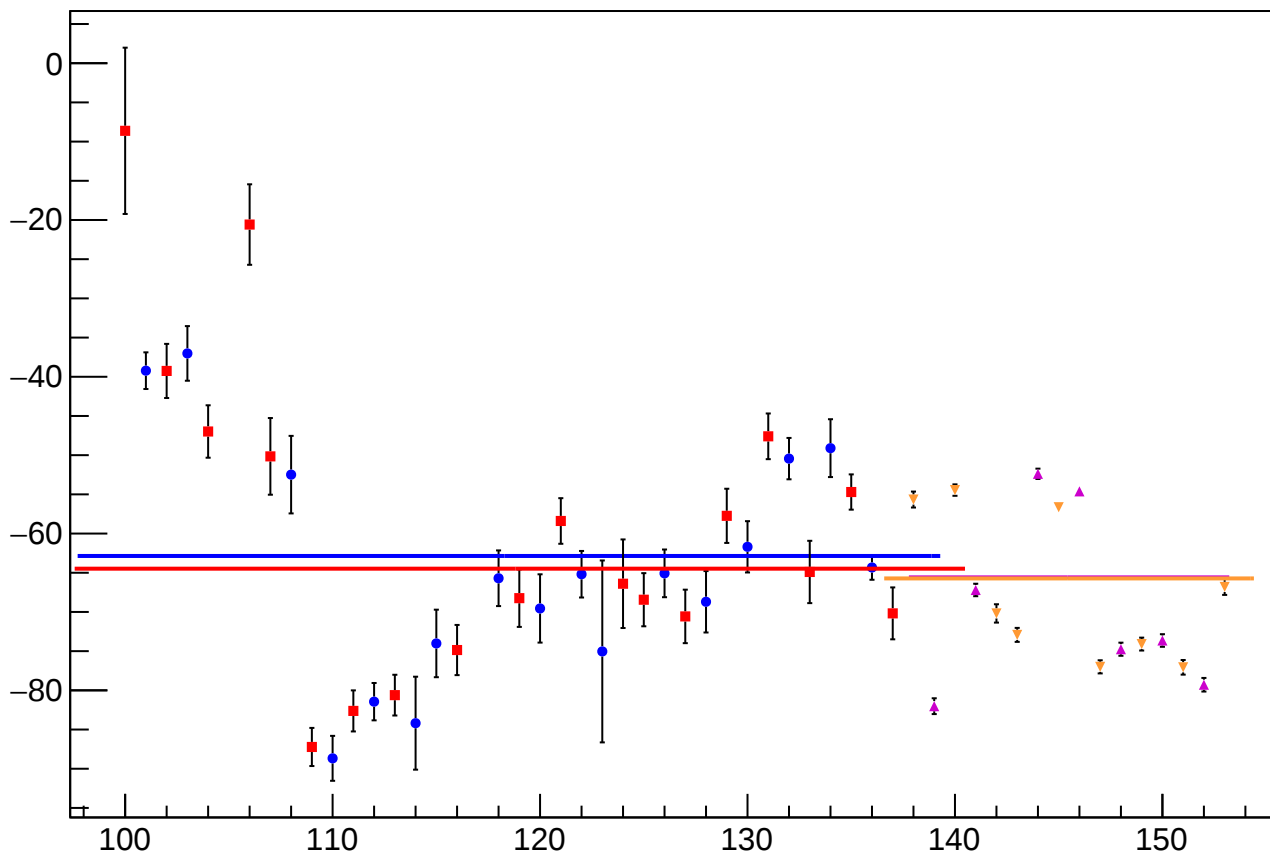
Left In:  $-2.859 \pm 0.194$   $\chi^2/\text{NDF}$ : 232.8/6

+ sign  $-1.792 \pm 0.173$   $\chi^2/\text{NDF}$ : 954.4/25

All:  $-2.466 \pm 0.123$   $\chi^2/\text{NDF}$ : 1532.6/51

- sign  $-3.171 \pm 0.177$   $\chi^2/\text{NDF}$ : 547.0/25

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-62.858 \pm 0.739$   $\chi^2/\text{NDF}: 367.7/16$

Left Out:  $-65.724 \pm 0.283$   $\chi^2/\text{NDF}: 1066.2/8$

Right Out:  $-64.480 \pm 0.751$   $\chi^2/\text{NDF}: 444.0/18$

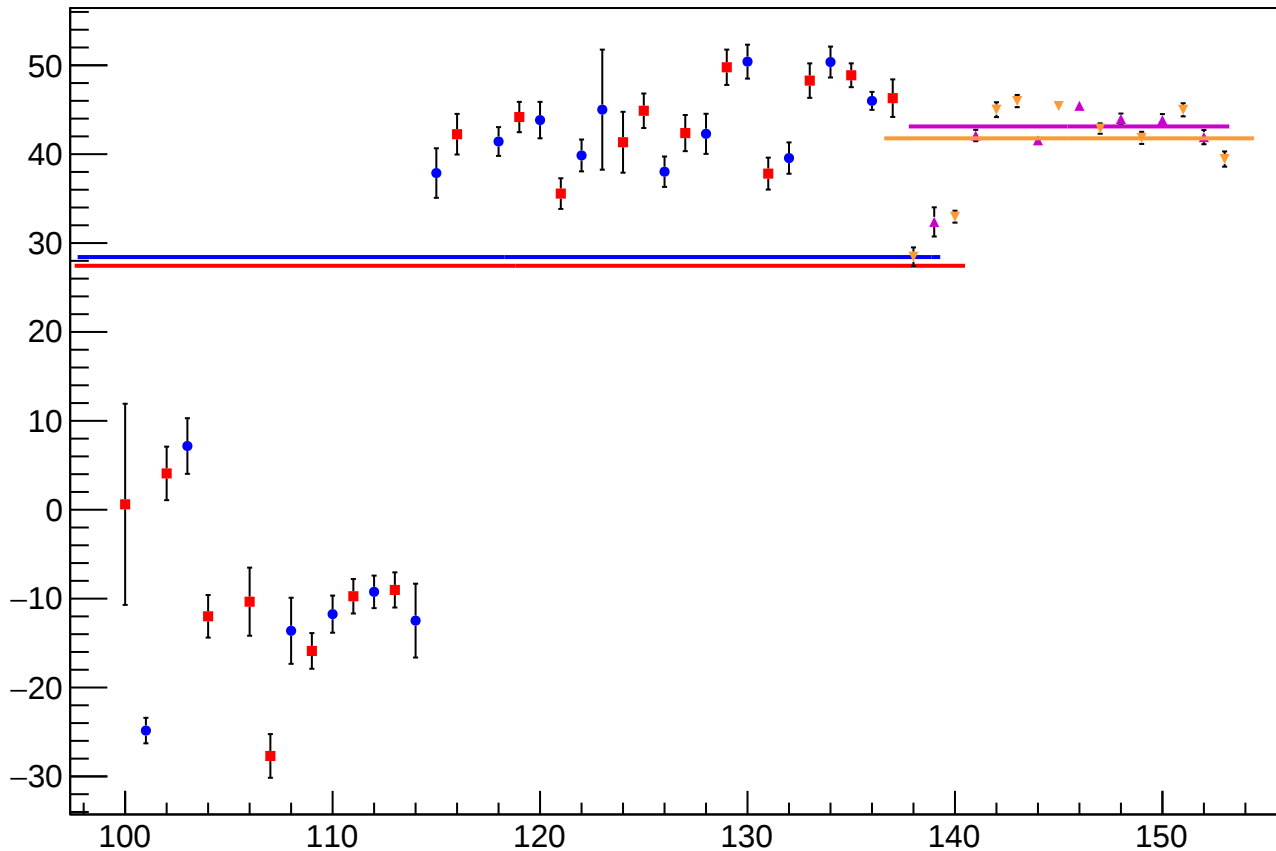
Left In:  $-65.589 \pm 0.288$   $\chi^2/\text{NDF}: 1491.8/6$

+ sign  $-65.357 \pm 0.264$   $\chi^2/\text{NDF}: 1447.0/25$

All:  $-65.401 \pm 0.188$   $\chi^2/\text{NDF}: 3384.8/51$

- sign  $-65.447 \pm 0.269$   $\chi^2/\text{NDF}: 1937.7/25$

# 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: 41.782 $\pm$ 0.234  $\chi^2$ /NDF: 459.8/8

Right Out: 27.445 $\pm$ 0.478  $\chi^2$ /NDF: 3033.4/18

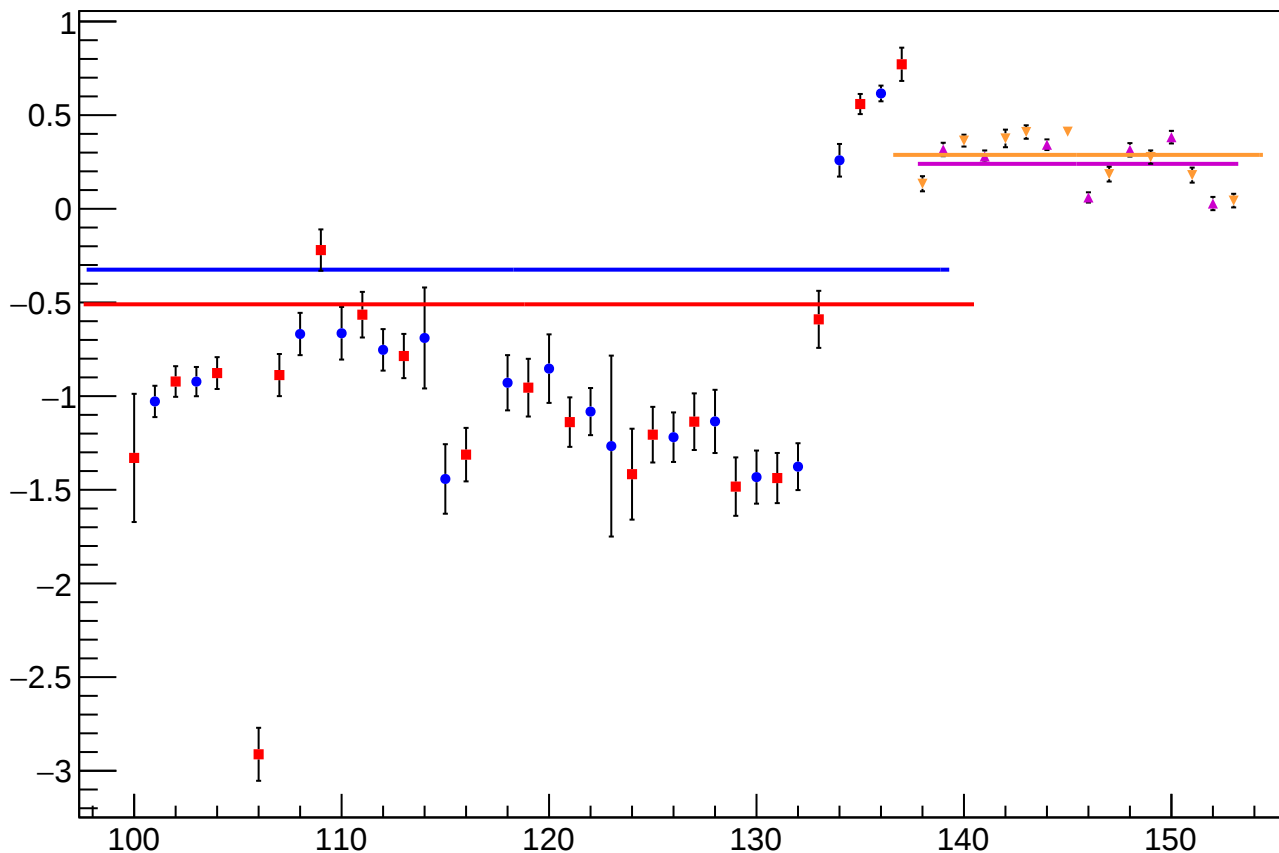
Left In: 43.118 $\pm$ 0.240  $\chi^2$ /NDF: 83.5/6

+ sign 39.018 $\pm$ 0.208  $\chi^2$ /NDF: 4457.3/25

All: 39.482 $\pm$ 0.149  $\chi^2$ /NDF: 8442.7/51

- sign 39.974 $\pm$ 0.214  $\chi^2$ /NDF: 3975.2/25

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:  $0.288 \pm 0.012$   $\chi^2/\text{NDF}$ : 120.5/8

Right Out:  $-0.510 \pm 0.026$   $\chi^2/\text{NDF}$ : 1169.1/18

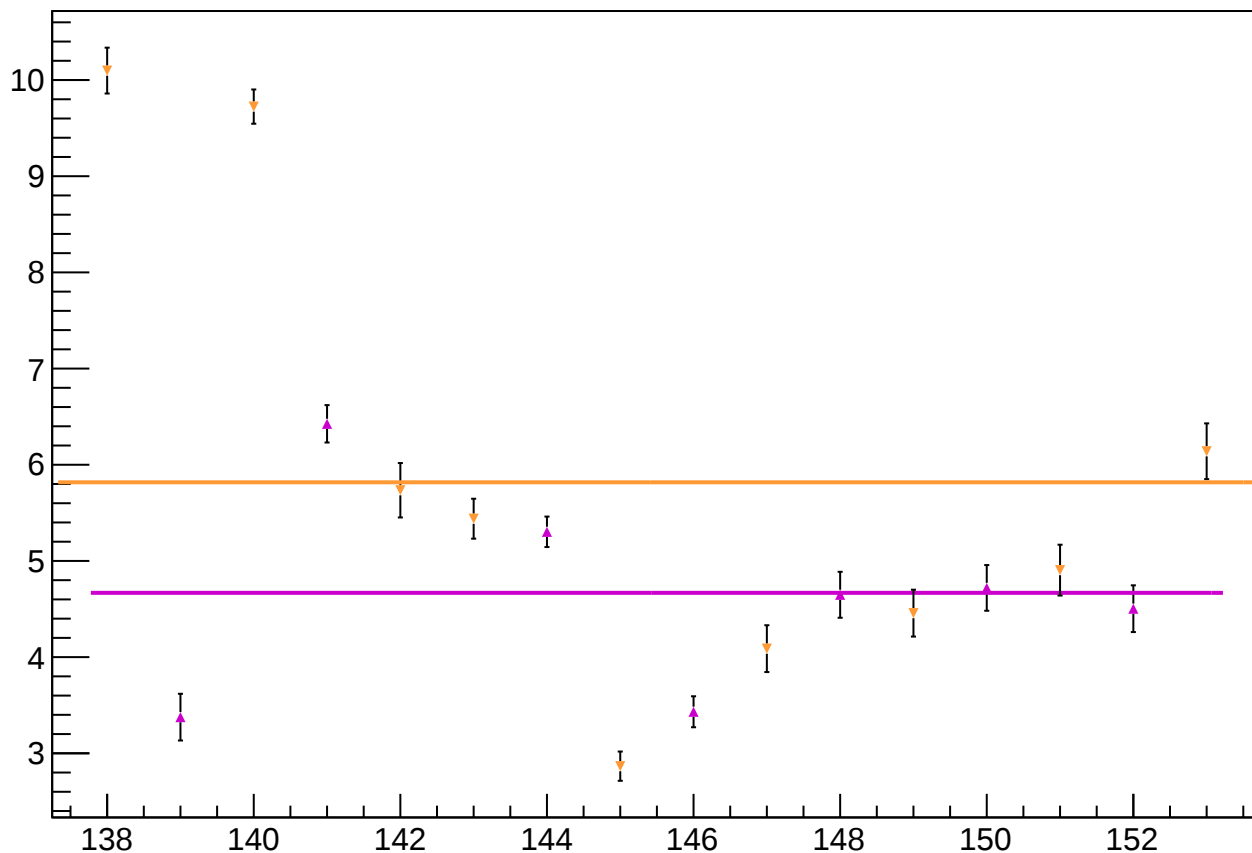
Left In:  $0.240 \pm 0.012$   $\chi^2/\text{NDF}$ : 119.8/6

+ sign  $0.178 \pm 0.011$   $\chi^2/\text{NDF}$ : 1628.0/25

All:  $0.142 \pm 0.008$   $\chi^2/\text{NDF}$ : 3636.7/51

- sign  $0.103 \pm 0.011$   $\chi^2/\text{NDF}$ : 1984.6/25

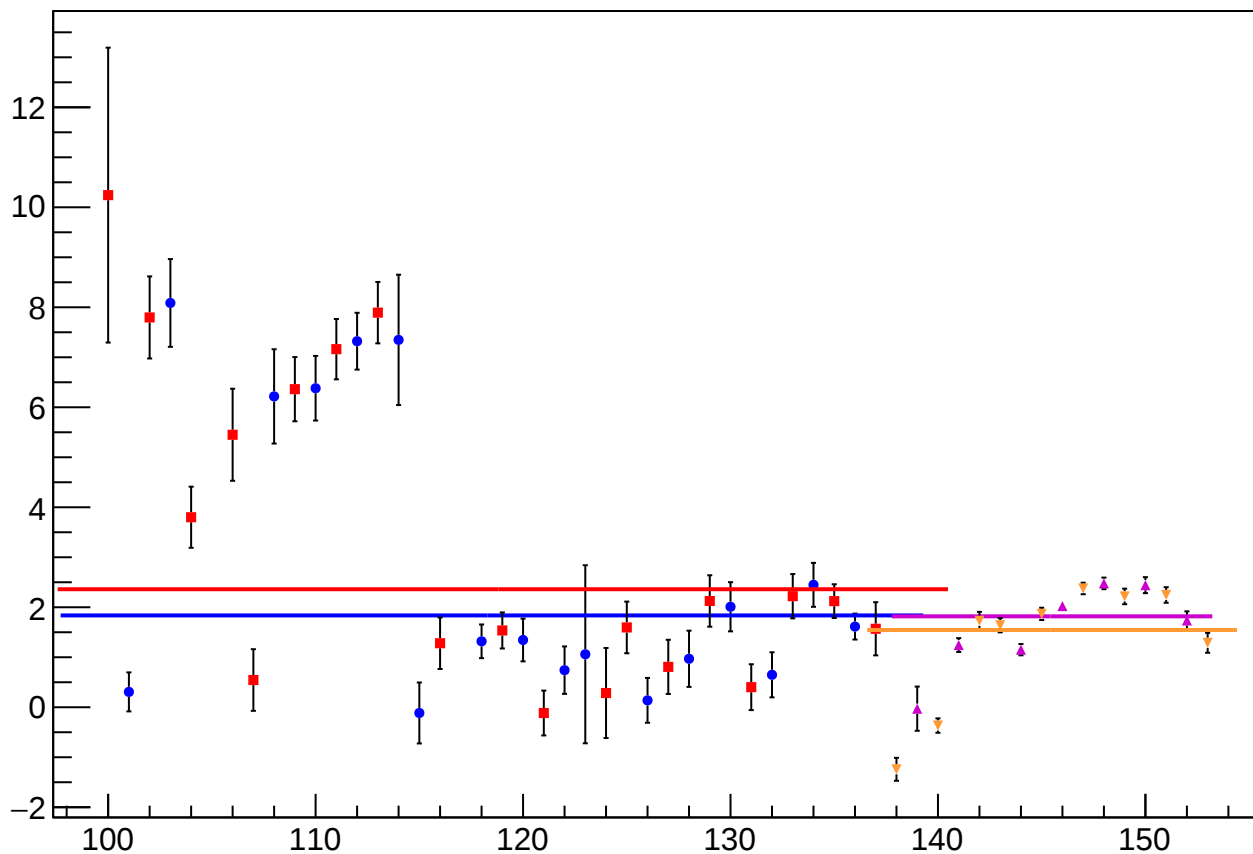
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.817 $\pm$ 0.073  $\chi^2$ /NDF:1278.6/8  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.668 $\pm$ 0.076  $\chi^2$ /NDF:185.5/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 5.265 $\pm$ 0.053  $\chi^2$ /NDF: 1583.4/15  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.837 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $1.545 \pm 0.050$   $\chi^2/\text{NDF}$ : 423.8/8

Right Out:  $2.361 \pm 0.122$   $\chi^2/\text{NDF}$ : 336.9/18

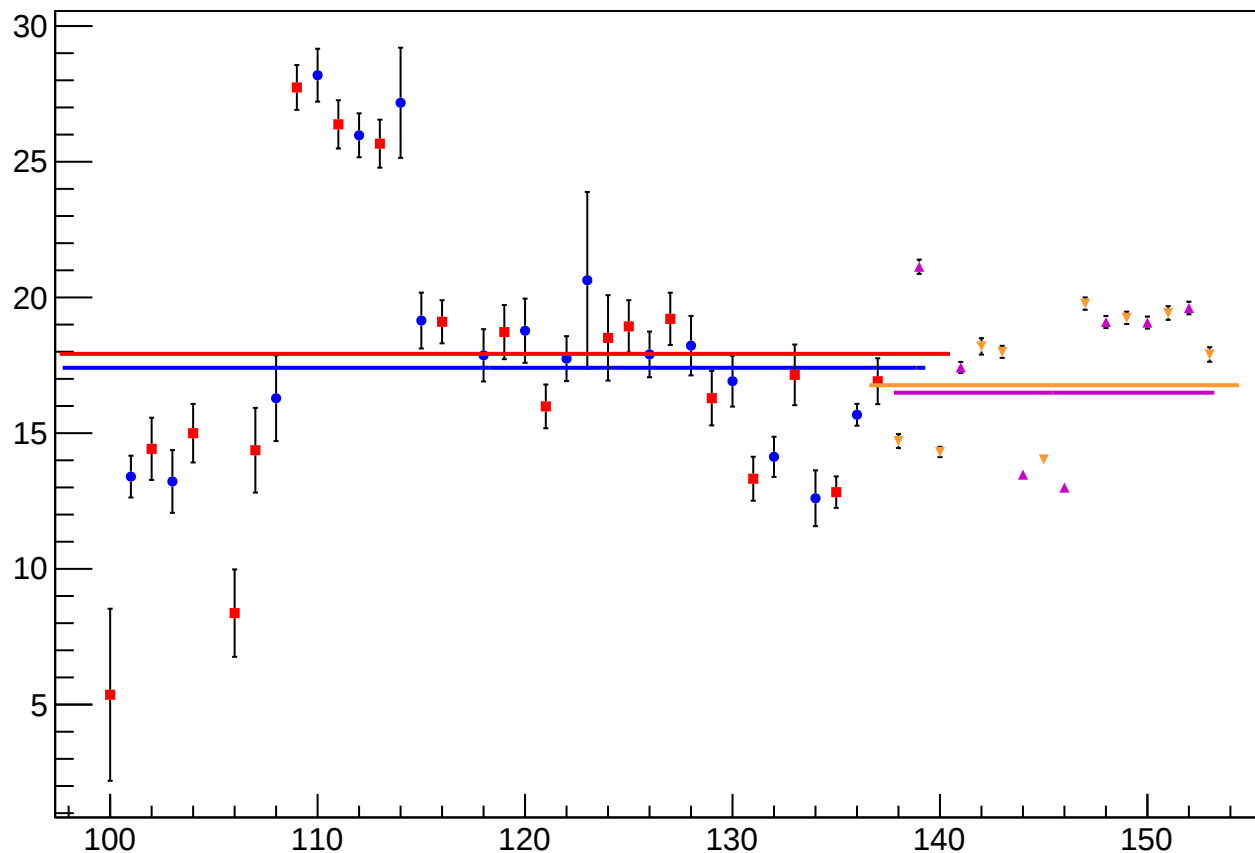
Left In:  $1.819 \pm 0.051$   $\chi^2/\text{NDF}$ : 121.8/6

+ sign  $1.591 \pm 0.046$   $\chi^2/\text{NDF}$ : 723.2/25

All:  $1.741 \pm 0.033$   $\chi^2/\text{NDF}$ : 1220.5/51

- sign  $1.899 \pm 0.047$   $\chi^2/\text{NDF}$ : 475.4/25

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: 16.767 $\pm$ 0.074  $\chi^2$ /NDF: 993.1/8

Right Out: 17.922 $\pm$ 0.219  $\chi^2$ /NDF: 506.5/18

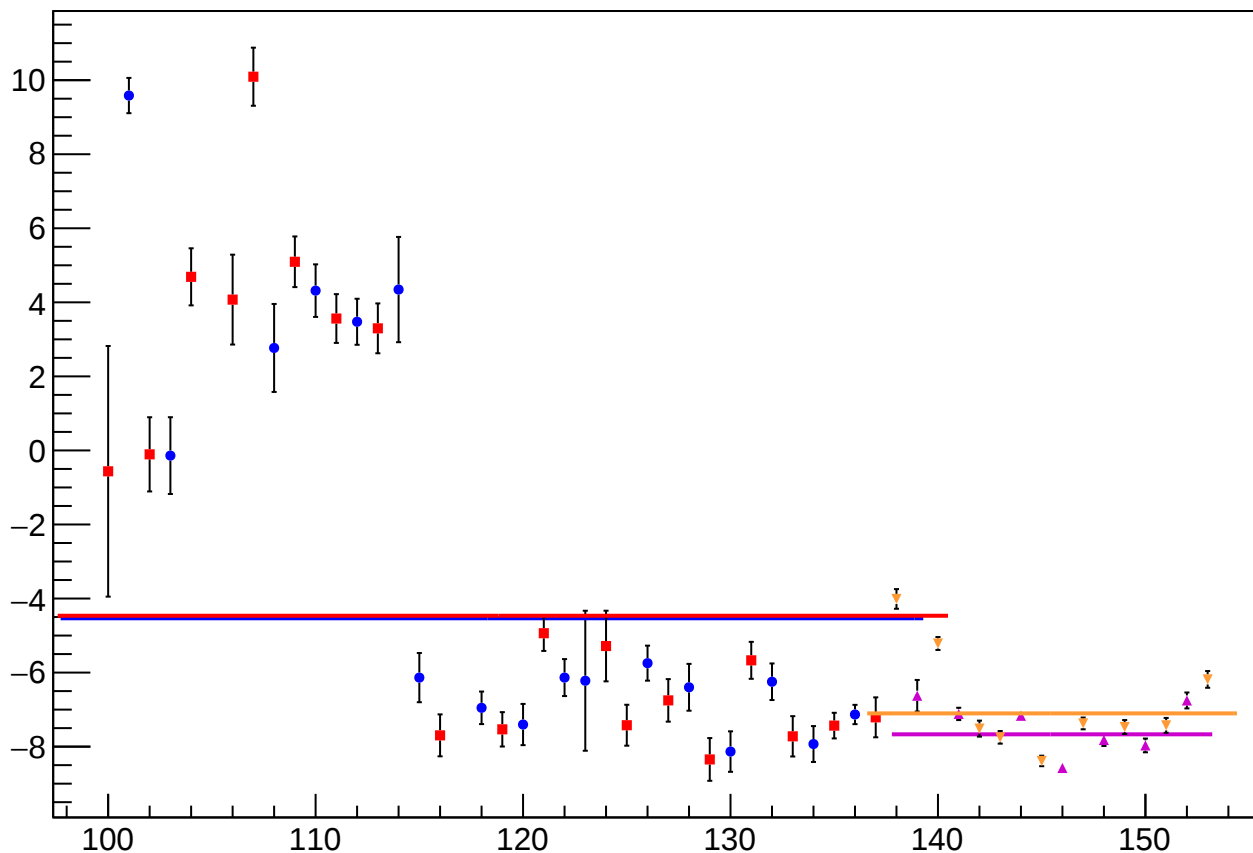
Left In: 16.492 $\pm$ 0.076  $\chi^2$ /NDF: 1610.7/6

+ sign 16.837 $\pm$ 0.070  $\chi^2$ /NDF: 1366.3/25

All: 16.743 $\pm$ 0.050  $\chi^2$ /NDF: 3525.3/51

- sign 16.646 $\pm$ 0.072  $\chi^2$ /NDF: 2155.3/25

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:  $-7.102 \pm 0.061$   $\chi^2/\text{NDF}$ : 378.1/8

Right Out:  $-4.465 \pm 0.137$   $\chi^2/\text{NDF}$ : 1340.6/18

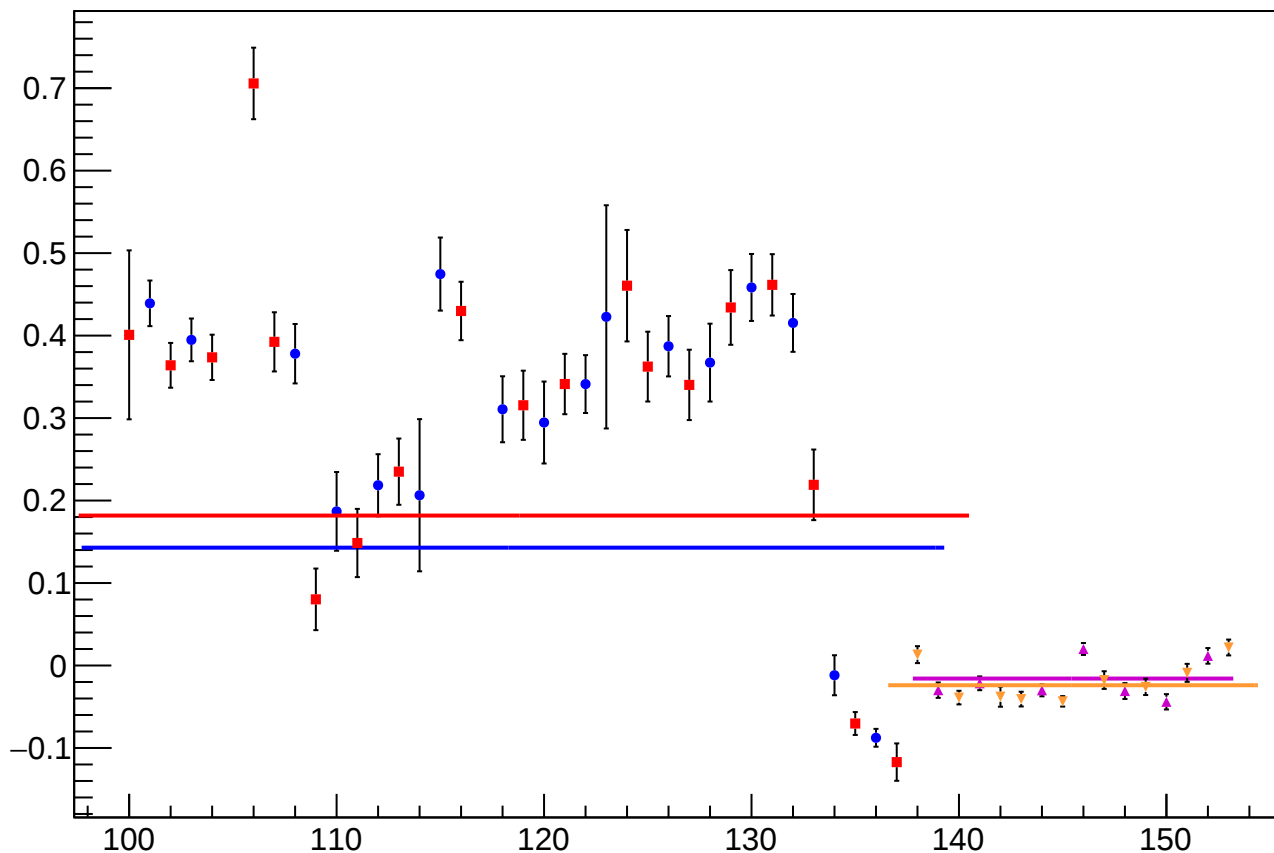
Left In:  $-7.668 \pm 0.063$   $\chi^2/\text{NDF}$ : 106.2/6

+ sign  $-6.630 \pm 0.056$   $\chi^2/\text{NDF}$ : 2286.9/25

All:  $-6.860 \pm 0.040$   $\chi^2/\text{NDF}$ : 4221.1/51

- sign  $-7.105 \pm 0.057$   $\chi^2/\text{NDF}$ : 1898.8/25

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:  $-0.024 \pm 0.003$   $\chi^2/\text{NDF}$ : 55.6/8

Right Out:  $0.182 \pm 0.007$   $\chi^2/\text{NDF}$ : 1008.3/18

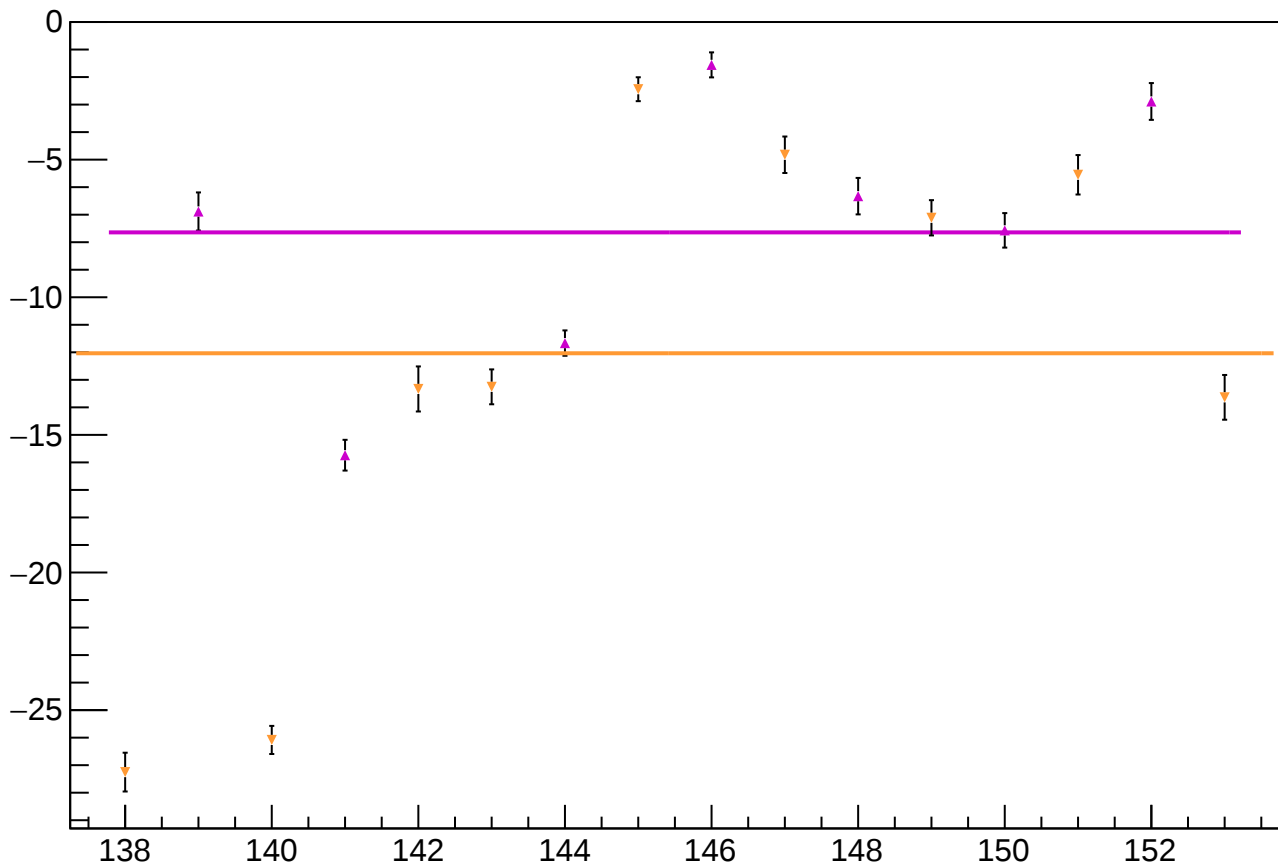
Left In:  $-0.016 \pm 0.003$   $\chi^2/\text{NDF}$ : 51.3/6

+ sign  $0.003 \pm 0.003$   $\chi^2/\text{NDF}$ : 1584.8/25

All:  $0.009 \pm 0.002$   $\chi^2/\text{NDF}$ : 3257.1/51

- sign  $0.016 \pm 0.003$   $\chi^2/\text{NDF}$ : 1662.1/25

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.035+/-0.207  $\chi^2/\text{NDF}$ :1981.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

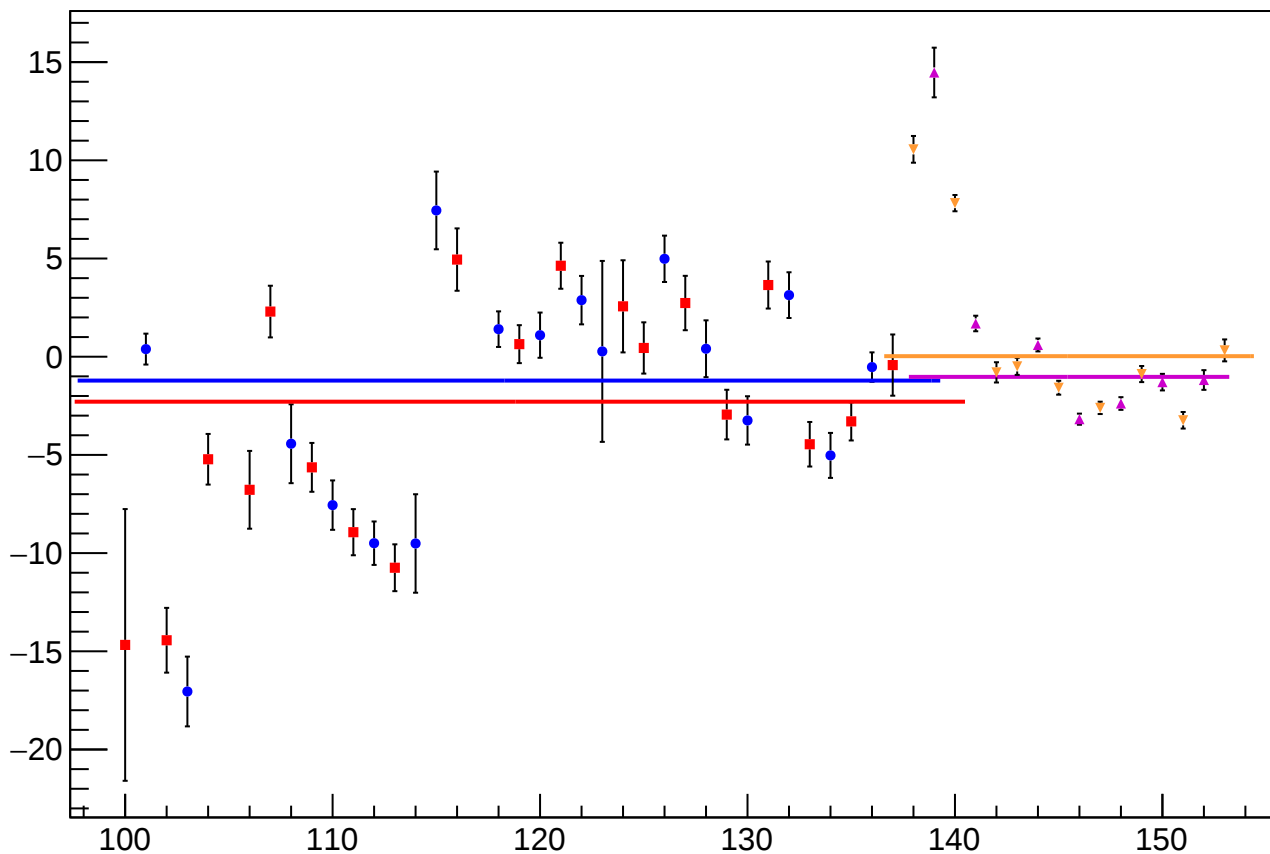
Left In: -7.643+/-0.214  $\chi^2/\text{NDF}$ :521.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.907+/-0.149  $\chi^2/\text{NDF}$ : 2720.3/15

- 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:  $0.027 \pm 0.141$   $\chi^2/\text{NDF}$ : 752.9/8

Right Out:  $-2.290 \pm 0.302$   $\chi^2/\text{NDF}$ : 287.1/18

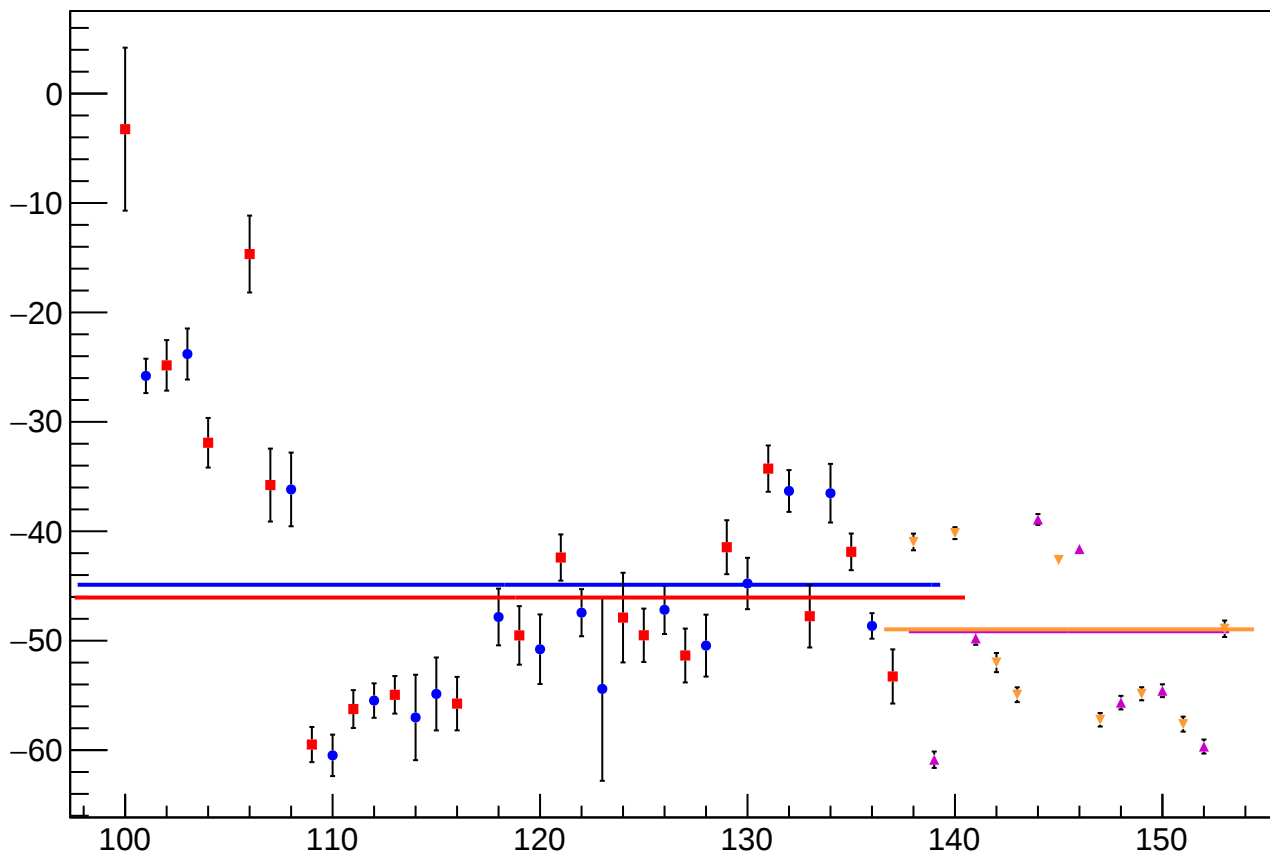
Left In:  $-1.027 \pm 0.144$   $\chi^2/\text{NDF}$ : 297.9/6

+ sign  $-0.211 \pm 0.127$   $\chi^2/\text{NDF}$ : 1046.5/25

All:  $-0.724 \pm 0.091$   $\chi^2/\text{NDF}$ : 1679.0/51

- sign  $-1.262 \pm 0.130$   $\chi^2/\text{NDF}$ : 599.3/25

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-44.888 \pm 0.523$   $\chi^2/\text{NDF}$ : 420.4/16

Left Out:  $-48.962 \pm 0.210$   $\chi^2/\text{NDF}$ : 1085.6/8

Right Out:  $-46.056 \pm 0.528$   $\chi^2/\text{NDF}$ : 453.7/18

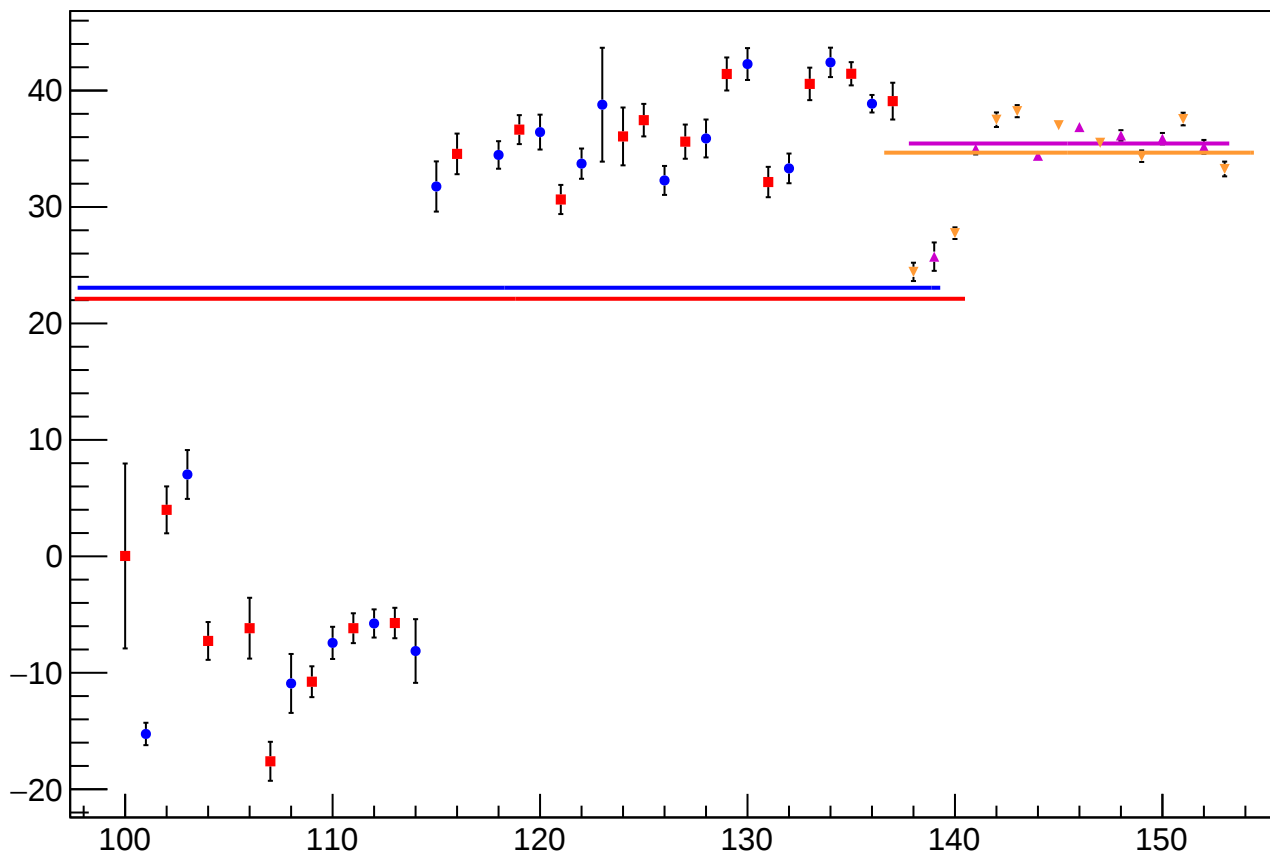
Left In:  $-49.137 \pm 0.214$   $\chi^2/\text{NDF}$ : 1438.5/6

+ sign  $-48.395 \pm 0.195$   $\chi^2/\text{NDF}$ : 1558.2/25

All:  $-48.547 \pm 0.139$   $\chi^2/\text{NDF}$ : 3480.8/51

- sign  $-48.704 \pm 0.198$   $\chi^2/\text{NDF}$ : 1921.5/25

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: 34.666 $\pm$ 0.174  $\chi^2$ /NDF: 497.6/8

Right Out: 22.118 $\pm$ 0.340  $\chi^2$ /NDF: 4033.3/18

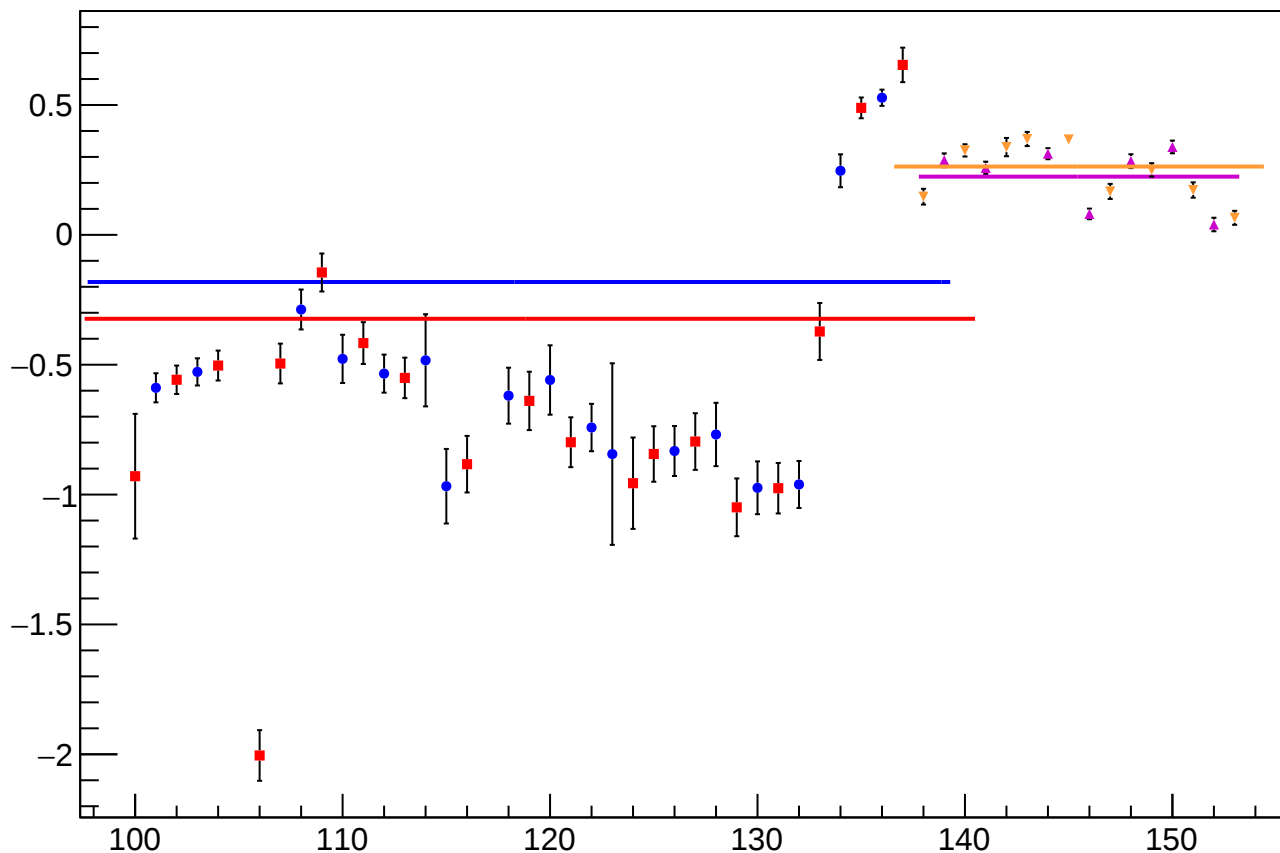
Left In: 35.452 $\pm$ 0.178  $\chi^2$ /NDF: 90.9/6

+ sign 32.106 $\pm$ 0.153  $\chi^2$ /NDF: 5814.5/25

All: 32.334 $\pm$ 0.110  $\chi^2$ /NDF: 11151.4/51

- sign 32.575 $\pm$ 0.158  $\chi^2$ /NDF: 5332.3/25

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.182 \pm 0.018$   $\chi^2/\text{NDF}$ : 996.9/16

Left Out:  $0.263 \pm 0.009$   $\chi^2/\text{NDF}$ : 148.8/8

Right Out:  $-0.323 \pm 0.018$   $\chi^2/\text{NDF}$ : 1183.9/18

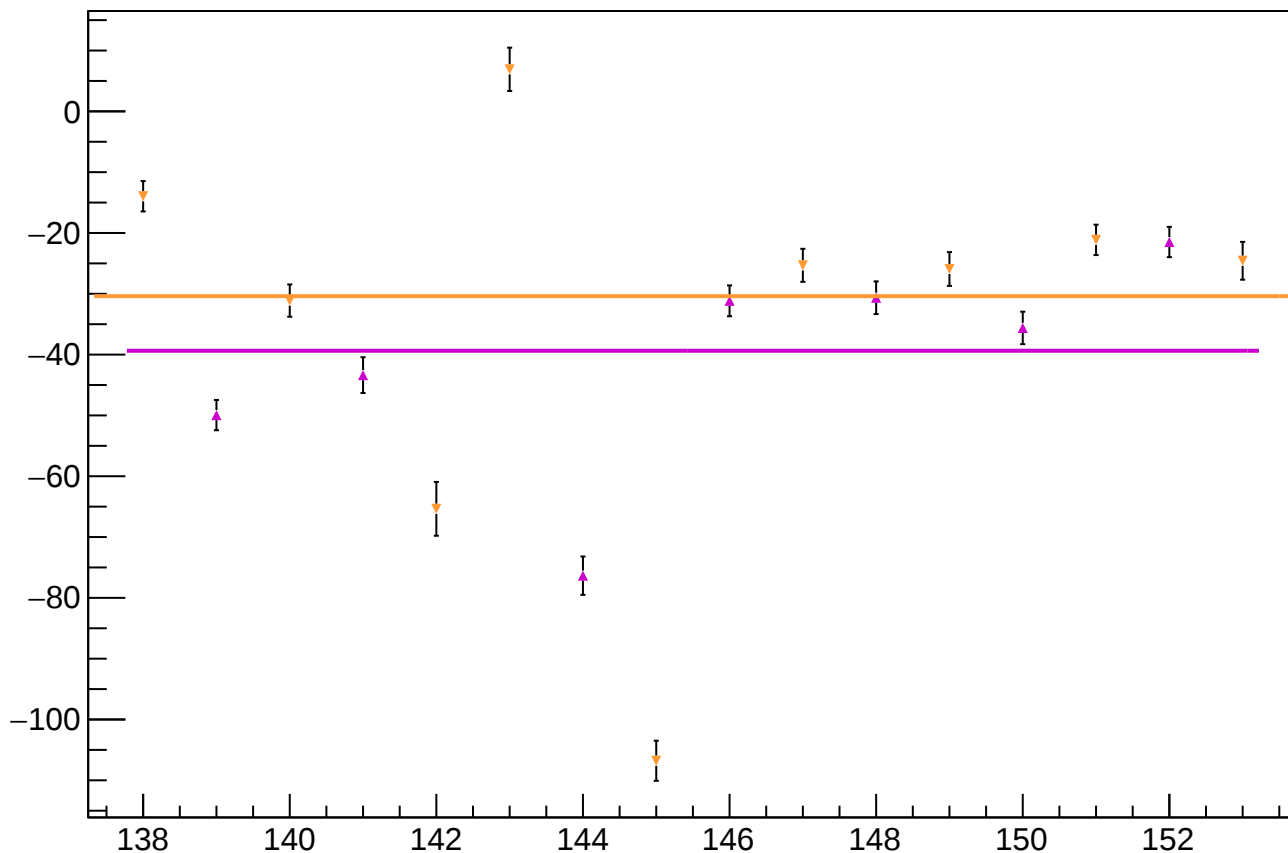
Left In:  $0.224 \pm 0.009$   $\chi^2/\text{NDF}$ : 150.7/6

+ sign  $0.177 \pm 0.008$   $\chi^2/\text{NDF}$ : 1652.3/25

All:  $0.148 \pm 0.006$   $\chi^2/\text{NDF}$ : 3745.0/51

- sign  $0.116 \pm 0.008$   $\chi^2/\text{NDF}$ : 2062.8/25

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-30.391 \pm 0.975$   $\chi^2/\text{NDF}$ : 775.6/8

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

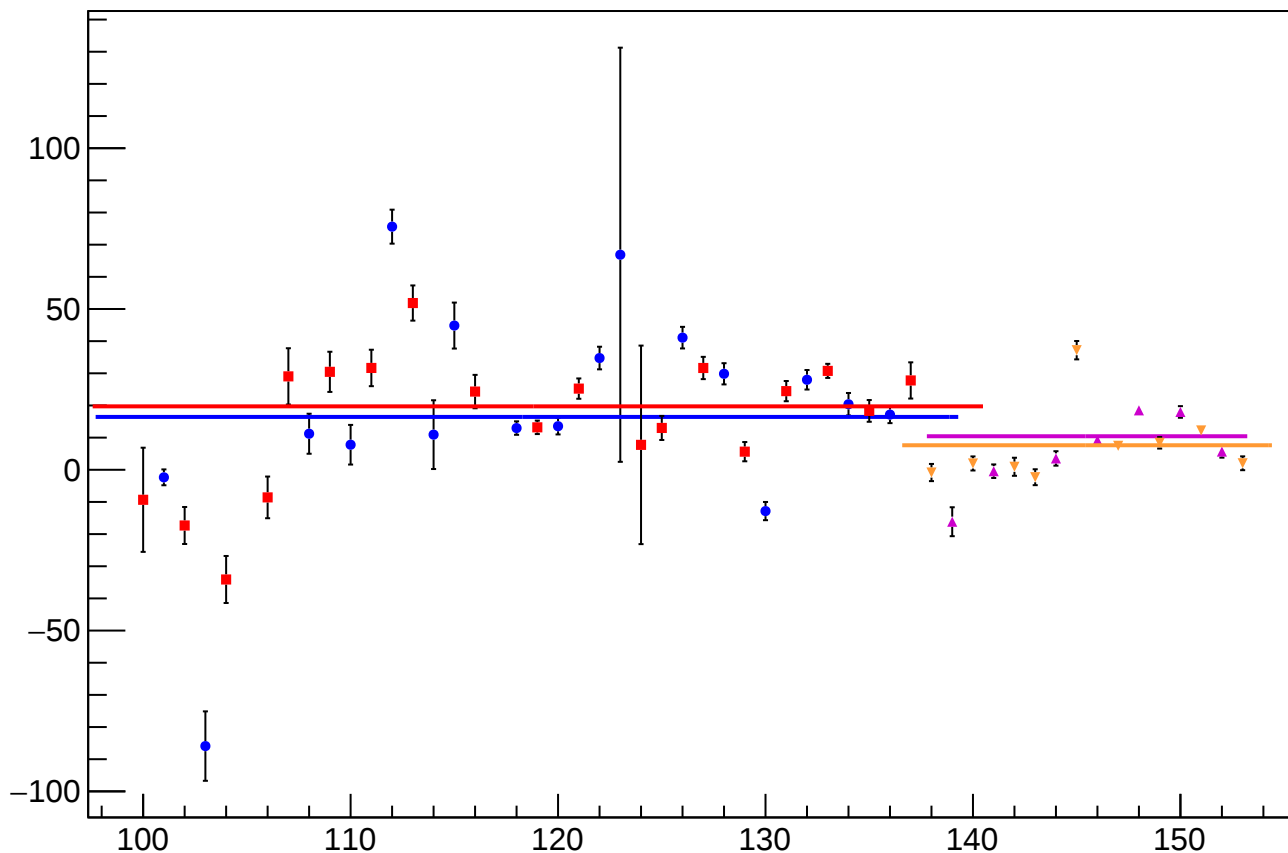
Left In:  $-39.364 \pm 1.014$   $\chi^2/\text{NDF}$ : 231.9/6

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.700 \pm 0.703$   $\chi^2/\text{NDF}$ : 1048.2/15

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In:  $16.439 \pm 0.849$   $\chi^2/\text{NDF}: 516.9/16$

Left Out:  $7.627 \pm 0.647$   $\chi^2/\text{NDF}: 163.2/8$

Right Out:  $19.724 \pm 0.898$   $\chi^2/\text{NDF}: 241.7/18$

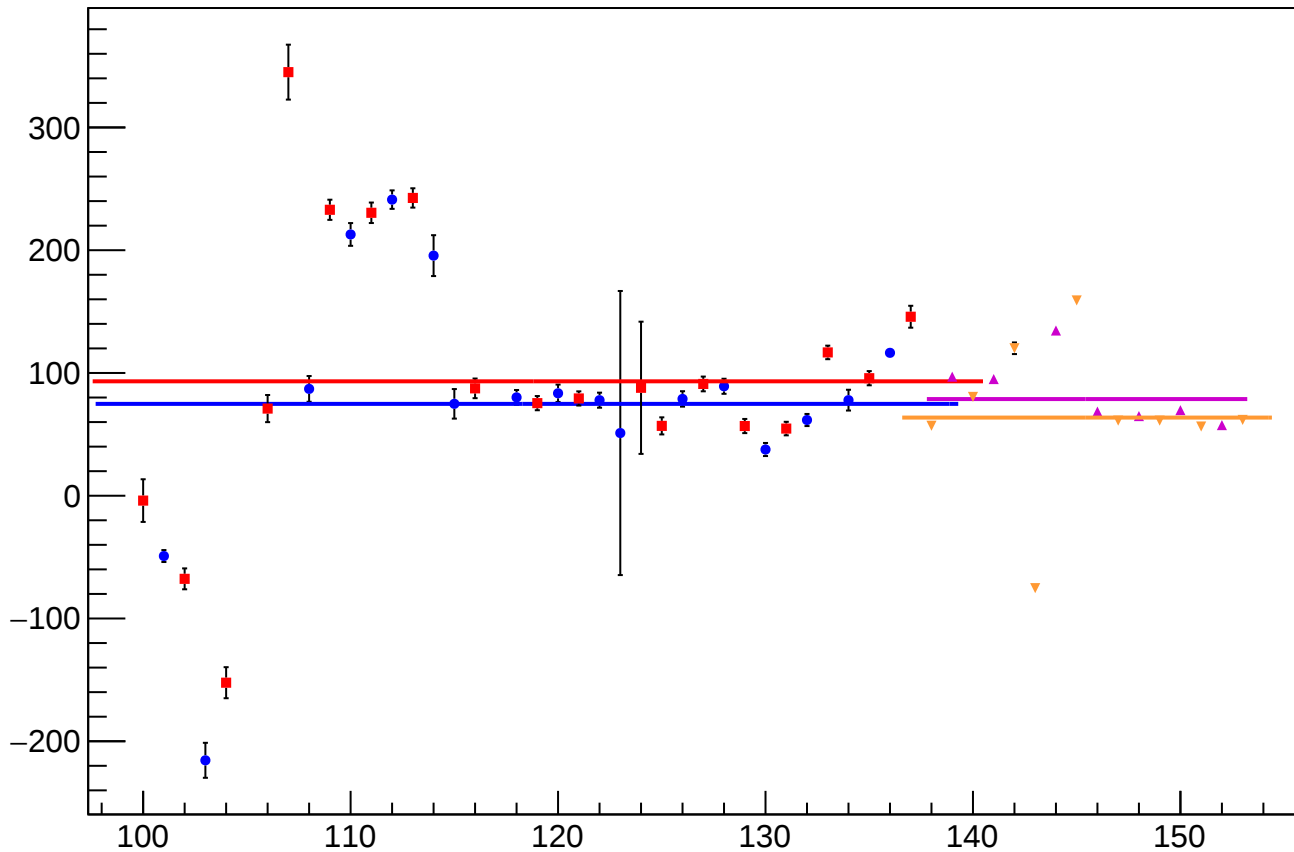
Left In:  $10.429 \pm 0.690$   $\chi^2/\text{NDF}: 133.6/6$

+ sign  $10.865 \pm 0.514$   $\chi^2/\text{NDF}: 748.4/25$

All:  $12.280 \pm 0.375$   $\chi^2/\text{NDF}: 1207.1/51$

- sign  $13.880 \pm 0.547$   $\chi^2/\text{NDF}: 442.7/25$

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In:  $74.824 \pm 1.639$   $\chi^2/\text{NDF}$ : 1996.8/16

Left Out:  $63.663 \pm 0.972$   $\chi^2/\text{NDF}$ : 2307.2/8

Right Out:  $93.202 \pm 1.712$   $\chi^2/\text{NDF}$ : 2000.7/18

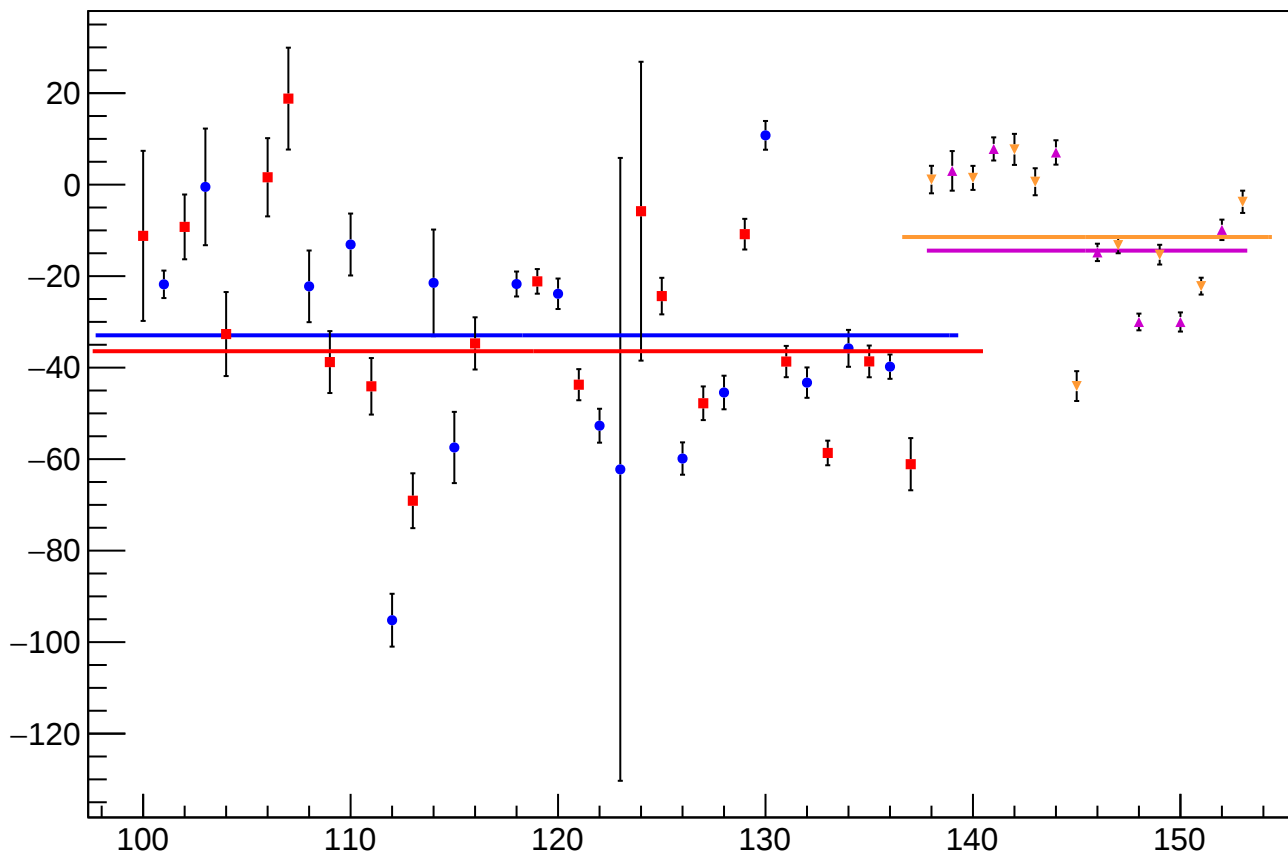
Left In:  $78.746 \pm 1.005$   $\chi^2/\text{NDF}$ : 487.3/6

+ sign  $66.568 \pm 0.836$   $\chi^2/\text{NDF}$ : 4338.3/25

All:  $74.225 \pm 0.602$   $\chi^2/\text{NDF}$ : 7053.4/51

- sign  $82.450 \pm 0.866$   $\chi^2/\text{NDF}$ : 2541.1/25

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-11.449 \pm 0.804$   $\chi^2/\text{NDF}$ : 238.2/8

Right Out:  $-36.411 \pm 1.025$   $\chi^2/\text{NDF}$ : 295.1/18

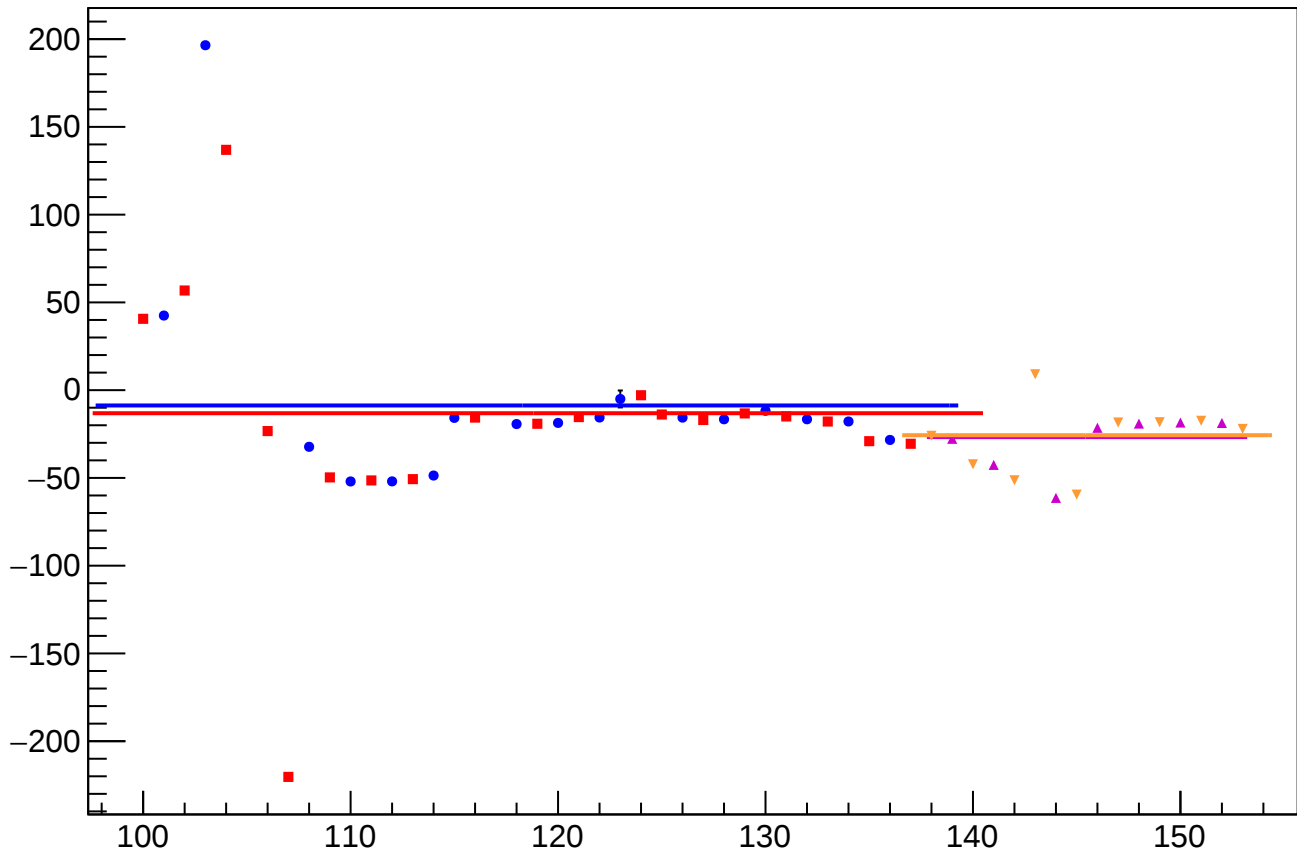
Left In:  $-14.423 \pm 0.858$   $\chi^2/\text{NDF}$ : 290.9/6

+ sign  $-20.169 \pm 0.620$   $\chi^2/\text{NDF}$ : 1018.5/25

All:  $-21.729 \pm 0.451$   $\chi^2/\text{NDF}$ : 1888.4/51

- sign  $-23.485 \pm 0.658$   $\chi^2/\text{NDF}$ : 856.5/25

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-25.665 \pm 0.040$   $\chi^2/\text{NDF}: 166329.0/8$

Right Out:  $-13.136 \pm 0.062$   $\chi^2/\text{NDF}: 558621.9/18$

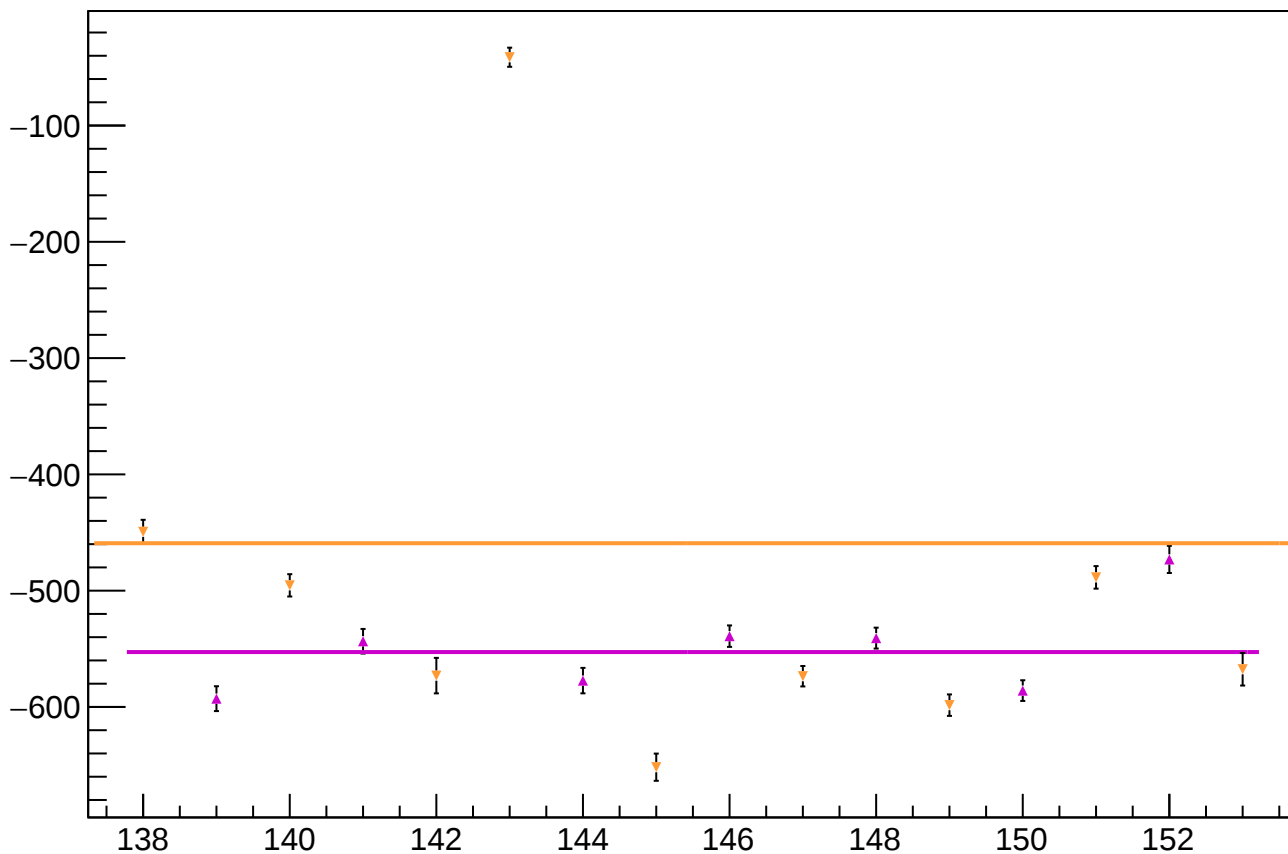
Left In:  $-26.744 \pm 0.041$   $\chi^2/\text{NDF}: 91289.0/6$

+ sign  $-20.275 \pm 0.033$   $\chi^2/\text{NDF}: 798644.5/25$

All:  $-21.353 \pm 0.024$   $\chi^2/\text{NDF}: 1484221.3/51$

- sign  $-22.513 \pm 0.034$   $\chi^2/\text{NDF}: 683387.0/25$

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -459.201+/-3.388  $\chi^2/\text{NDF}$ : 3389.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

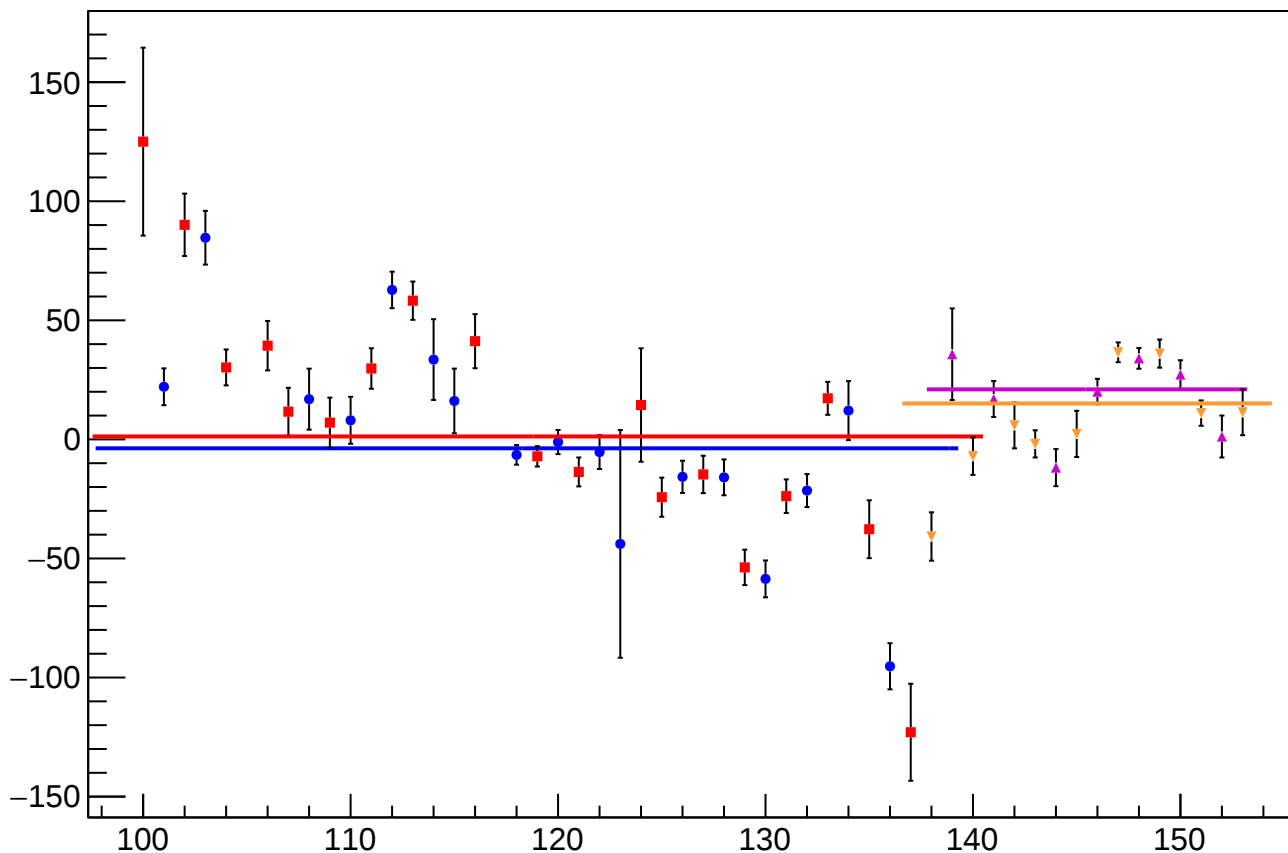
Left In: -552.796+/-3.776  $\chi^2/\text{NDF}$ : 84.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -500.944+/-2.522  $\chi^2/\text{NDF}$ : 3814.4/15

- 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:  $15.090 \pm 2.181$   $\chi^2/\text{NDF}$ : 89.6/8

Right Out:  $1.241 \pm 1.916$   $\chi^2/\text{NDF}$ : 303.5/18

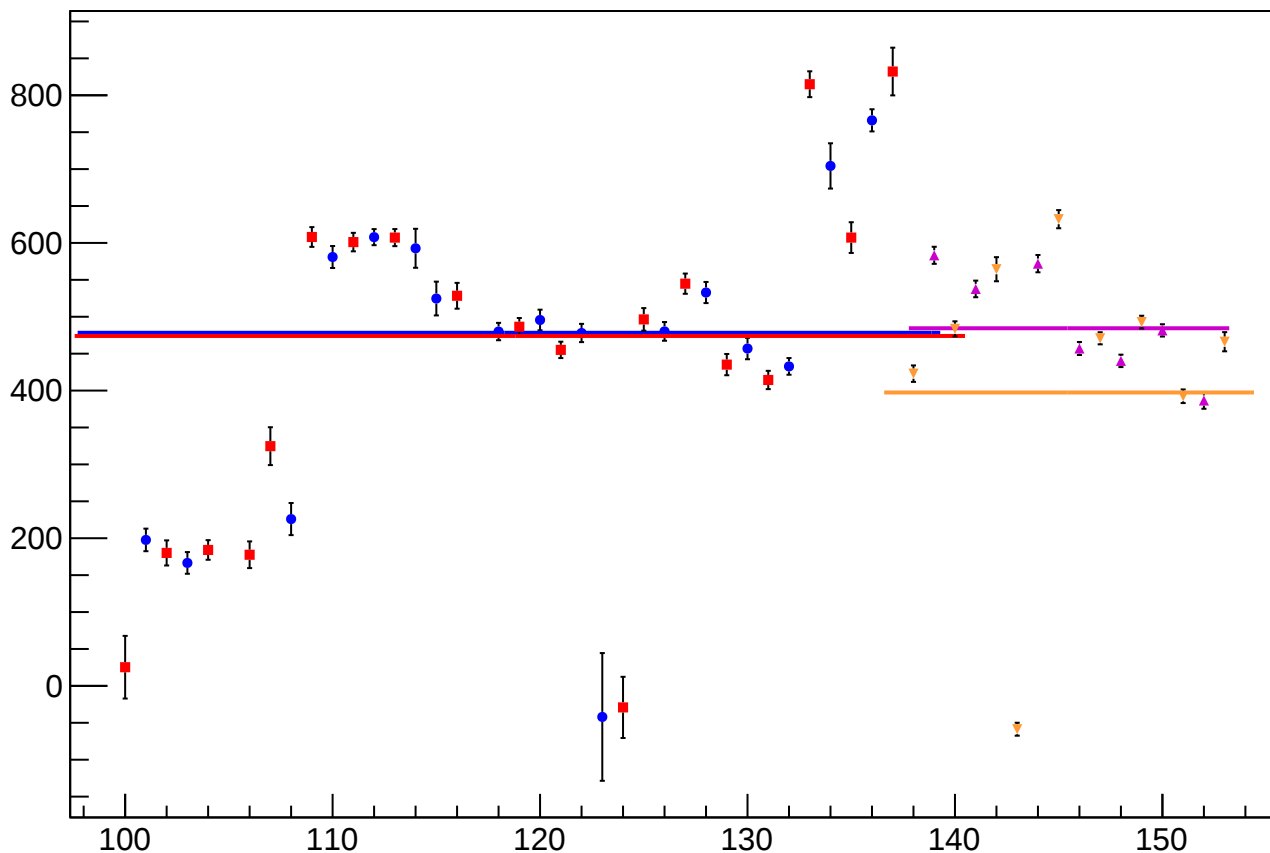
Left In:  $21.009 \pm 2.462$   $\chi^2/\text{NDF}$ : 33.7/6

+ sign  $4.345 \pm 1.429$   $\chi^2/\text{NDF}$ : 446.2/25

All:  $6.399 \pm 1.038$   $\chi^2/\text{NDF}$ : 828.0/51

- sign  $8.698 \pm 1.512$   $\chi^2/\text{NDF}$ : 377.4/25

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.265 $\pm$ 3.638  $\chi^2/\text{NDF}$ : 1627.9/16

Left Out: 397.409 $\pm$ 3.392  $\chi^2/\text{NDF}$ : 3477.9/8

Right Out: 473.977 $\pm$ 3.529  $\chi^2/\text{NDF}$ : 2288.3/18

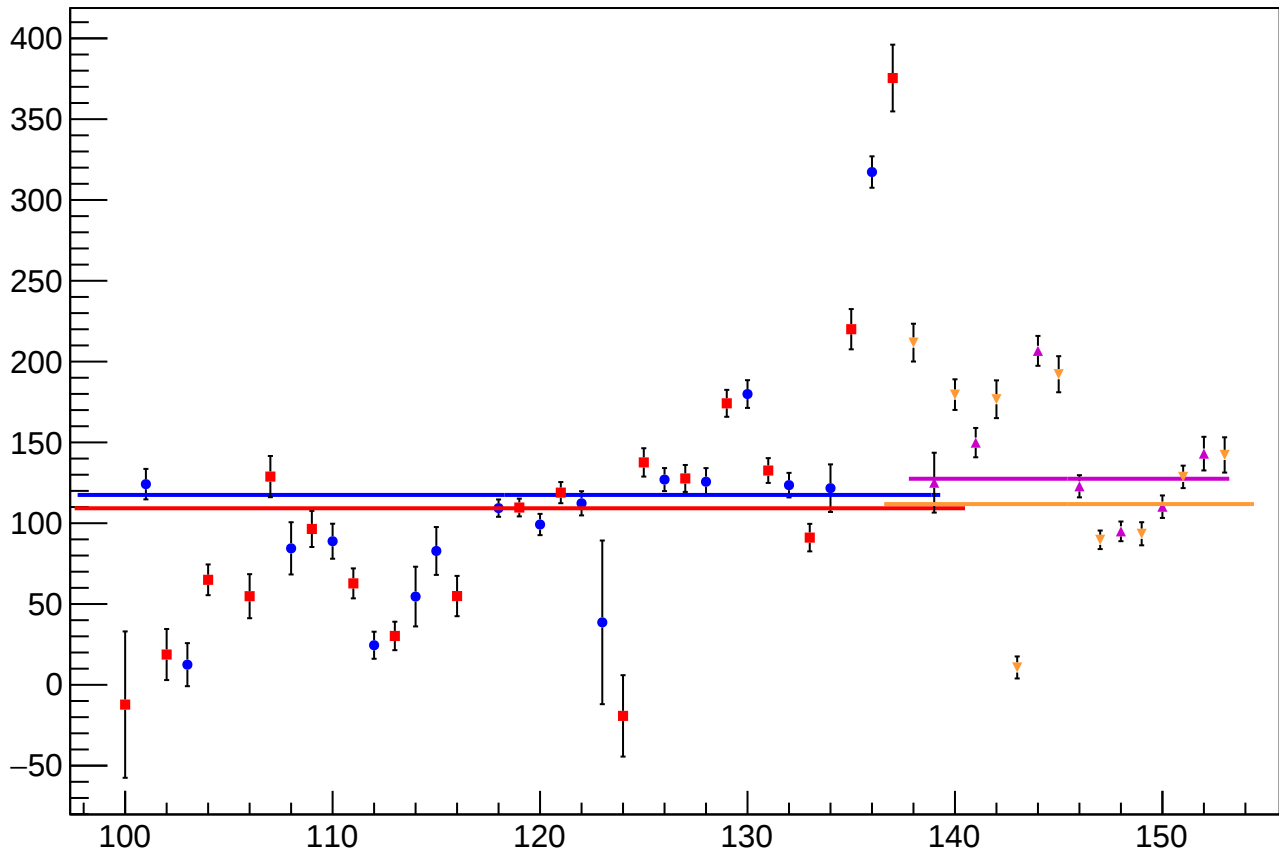
Left In: 484.419 $\pm$ 3.725  $\chi^2/\text{NDF}$ : 264.9/6

+ sign 435.013 $\pm$ 2.481  $\chi^2/\text{NDF}$ : 5370.1/25

All: 456.261 $\pm$ 1.782  $\chi^2/\text{NDF}$ : 8079.0/51

- sign 478.916 $\pm$ 2.562  $\chi^2/\text{NDF}$ : 2557.4/25

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In:  $117.502 \pm 2.198$   $\chi^2/\text{NDF}: 705.9/16$

Left Out:  $111.847 \pm 2.728$   $\chi^2/\text{NDF}: 461.6/8$

Right Out:  $109.247 \pm 2.206$   $\chi^2/\text{NDF}: 569.4/18$

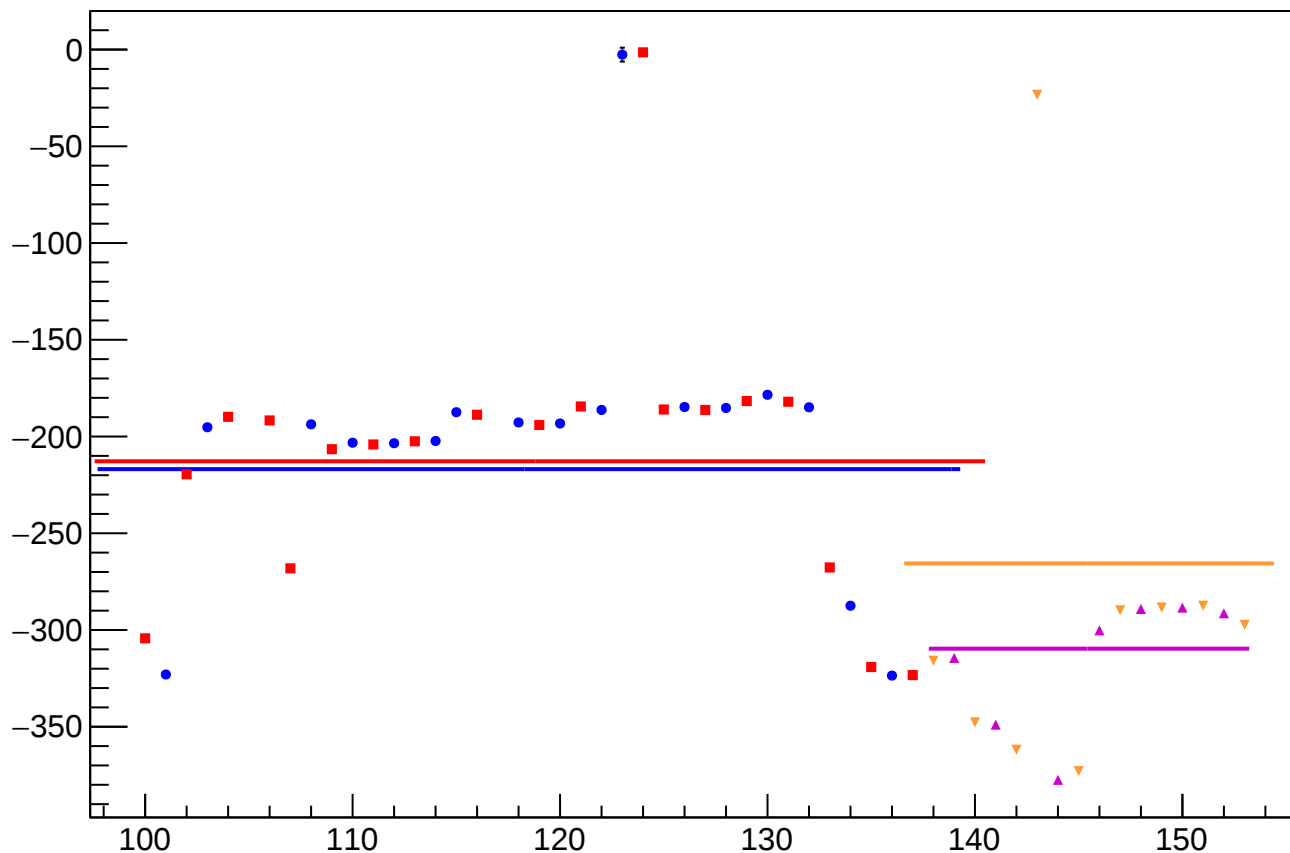
Left In:  $127.506 \pm 3.089$   $\chi^2/\text{NDF}: 116.7/6$

+ sign  $115.277 \pm 1.711$   $\chi^2/\text{NDF}: 1170.2/25$

All:  $115.342 \pm 1.239$   $\chi^2/\text{NDF}: 1879.4/51$

- sign  $115.414 \pm 1.795$   $\chi^2/\text{NDF}: 709.2/25$

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}: 146927.1/16$

Left Out:  $-265.607 \pm 0.142$   $\chi^2/\text{NDF}: 605045.0/8$

Right Out:  $-212.793 \pm 0.130$   $\chi^2/\text{NDF}: 116590.7/18$

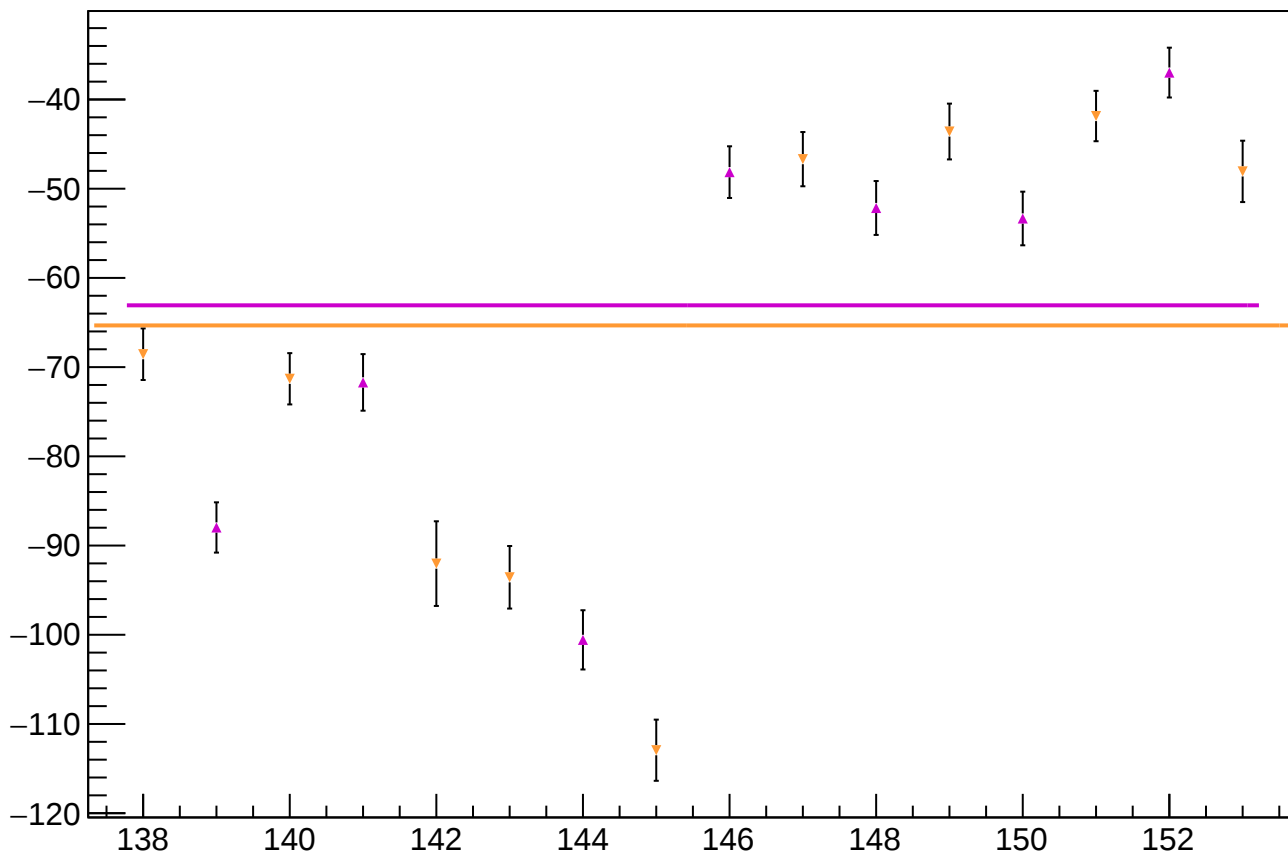
Left In:  $-309.635 \pm 0.156$   $\chi^2/\text{NDF}: 34125.0/6$

+ sign  $-240.101 \pm 0.098$   $\chi^2/\text{NDF}: 813372.2/25$

All:  $-246.276 \pm 0.070$   $\chi^2/\text{NDF}: 1200227.4/51$

- sign  $-252.643 \pm 0.100$   $\chi^2/\text{NDF}: 378834.9/25$

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -65.325+/-1.071  $\chi^2/\text{NDF}$ : 475.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

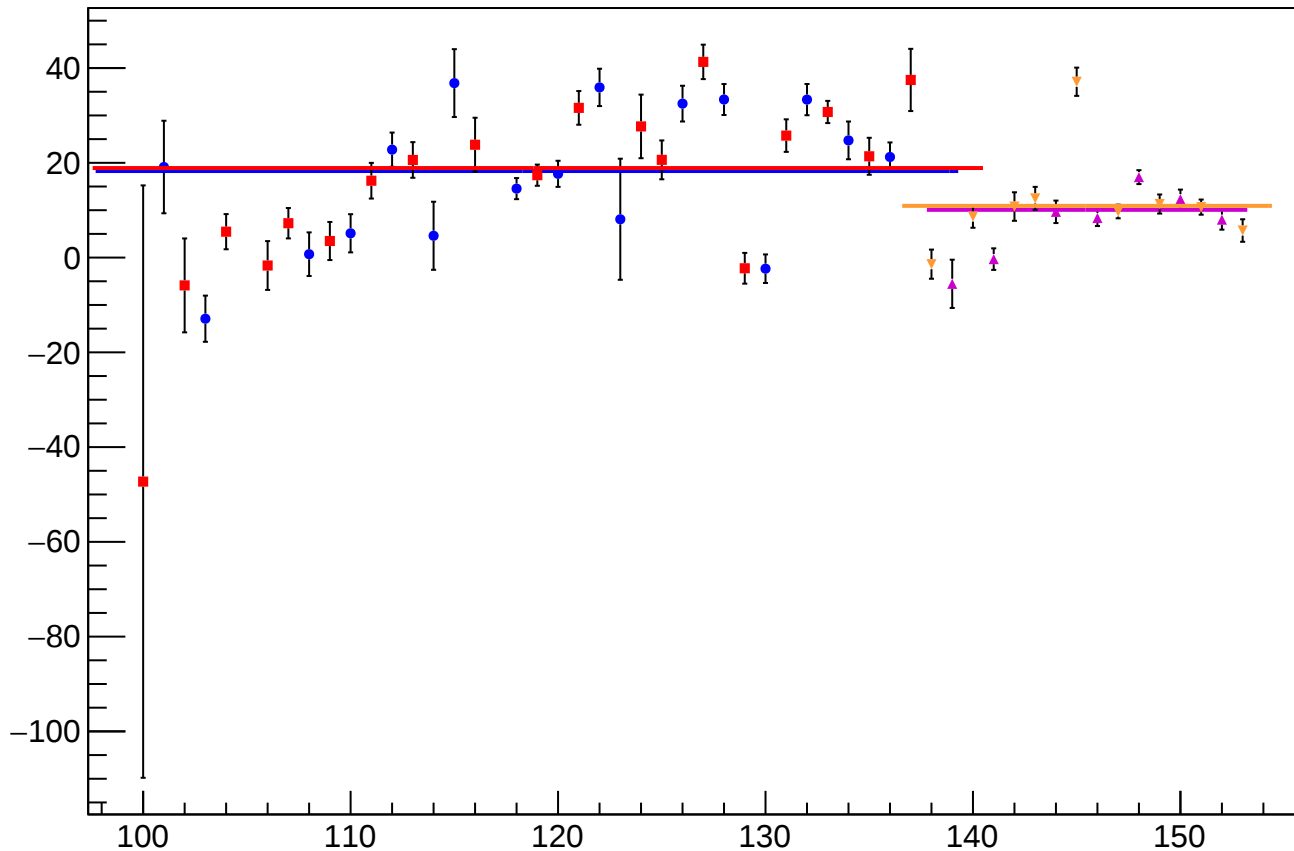
Left In: -63.072+/-1.130  $\chi^2/\text{NDF}$ : 350.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -64.259+/-0.777  $\chi^2/\text{NDF}$ : 827.7/15

- 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:  $10.919 \pm 0.713$   $\chi^2/\text{NDF}$ : 100.0/8

Right Out:  $18.897 \pm 0.864$   $\chi^2/\text{NDF}$ : 199.2/18

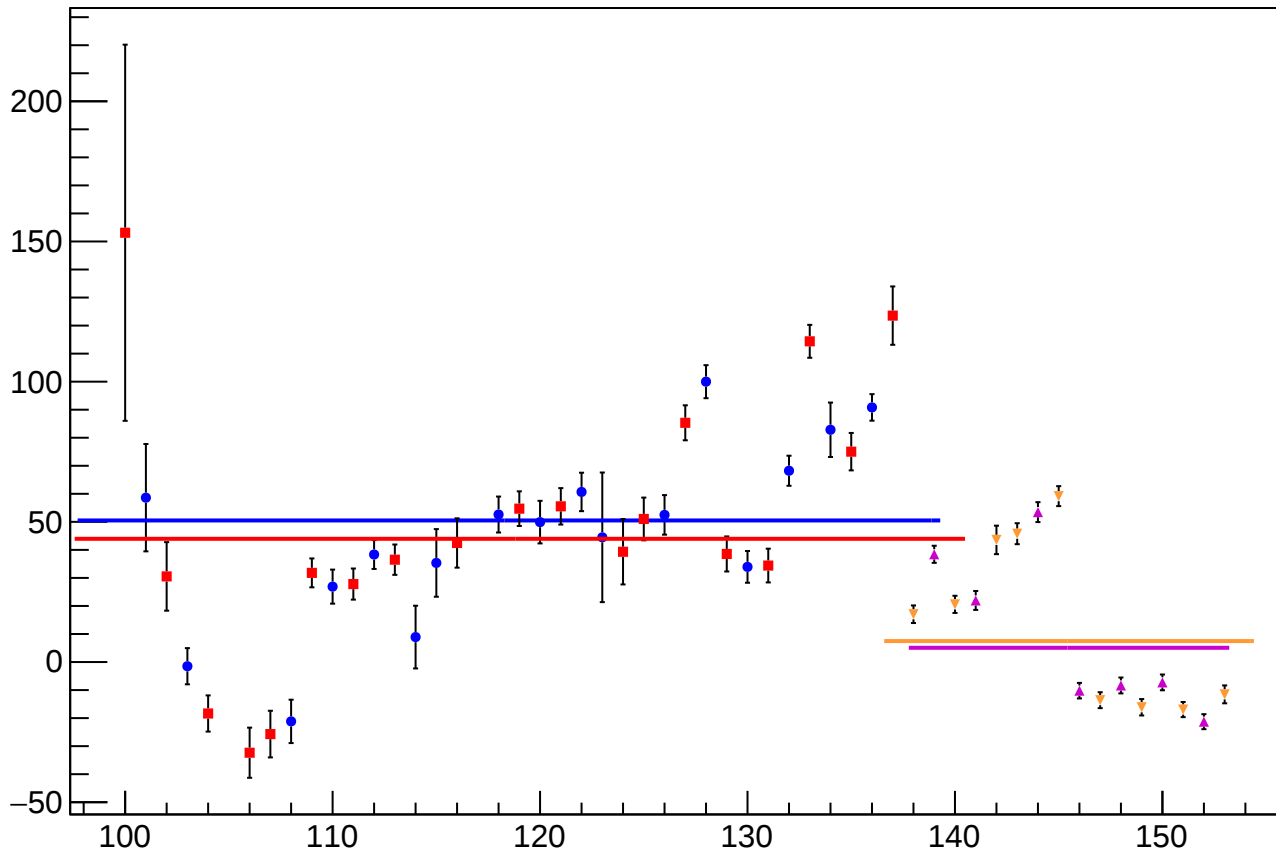
Left In:  $10.077 \pm 0.771$   $\chi^2/\text{NDF}$ : 55.6/6

+ sign  $13.725 \pm 0.560$   $\chi^2/\text{NDF}$ : 348.9/25

All:  $13.853 \pm 0.401$   $\chi^2/\text{NDF}$ : 661.9/51

- sign  $13.988 \pm 0.575$   $\chi^2/\text{NDF}$ : 312.8/25

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In:  $50.497 \pm 1.671$   $\chi^2/\text{NDF}$ : 363.2/16

Left Out:  $7.479 \pm 1.070$   $\chi^2/\text{NDF}$ : 631.2/8

Right Out:  $43.957 \pm 1.603$   $\chi^2/\text{NDF}$ : 534.3/18

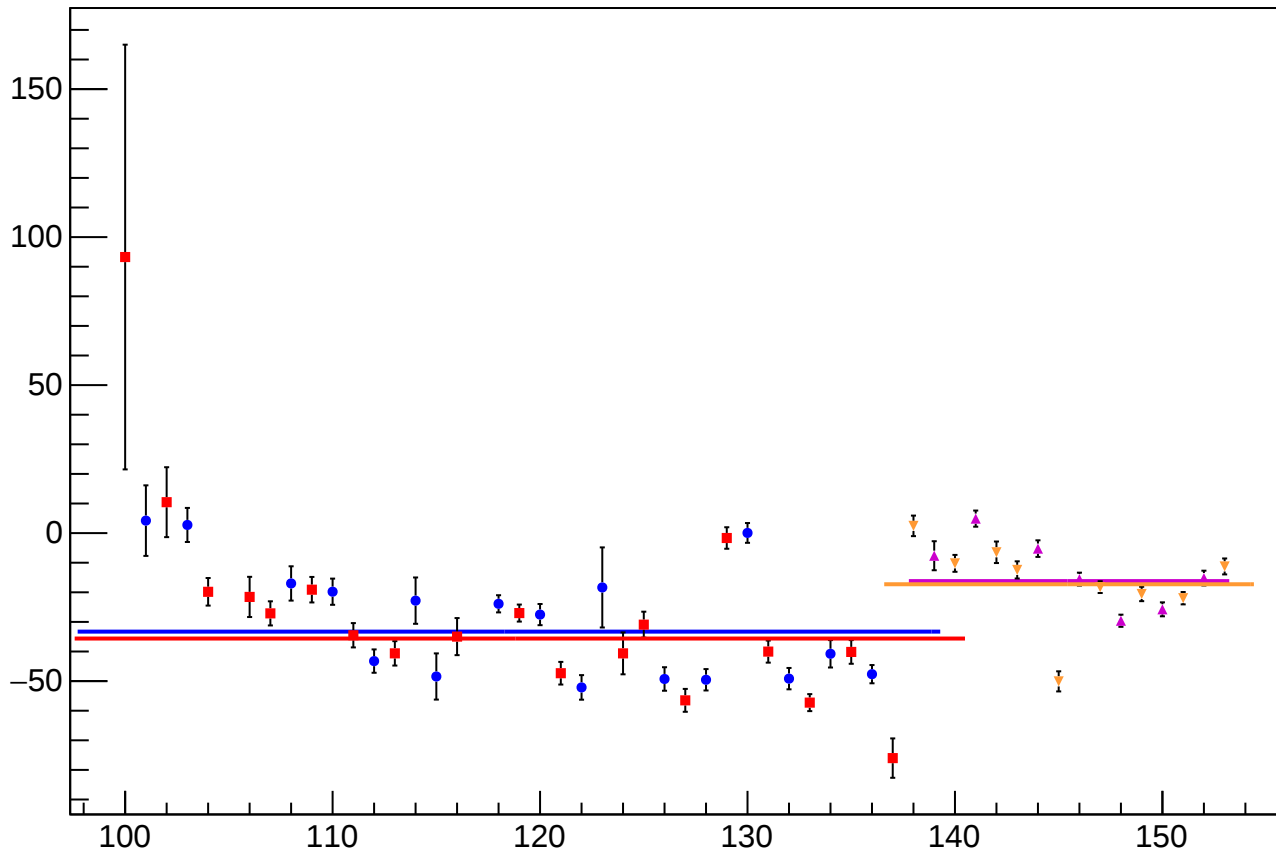
Left In:  $5.084 \pm 1.121$   $\chi^2/\text{NDF}$ : 499.6/6

+ sign  $19.990 \pm 0.901$   $\chi^2/\text{NDF}$ : 1464.5/25

All:  $18.941 \pm 0.643$   $\chi^2/\text{NDF}$ : 2896.0/51

- sign  $17.850 \pm 0.919$   $\chi^2/\text{NDF}$ : 1428.8/25

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-17.279 \pm 0.885$   $\chi^2/\text{NDF}$ : 155.5/8

Right Out:  $-35.619 \pm 0.993$   $\chi^2/\text{NDF}$ : 287.8/18

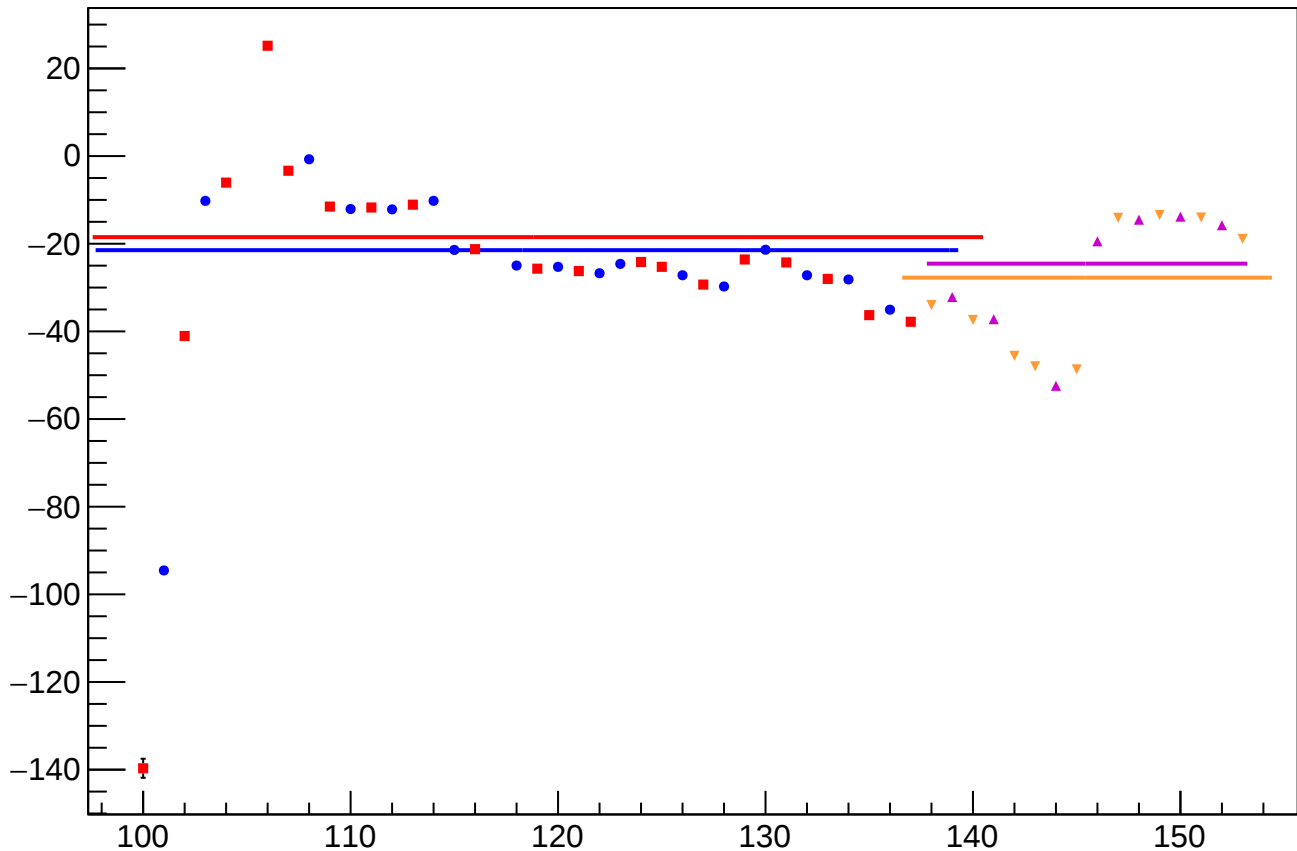
Left In:  $-16.209 \pm 0.958$   $\chi^2/\text{NDF}$ : 137.3/6

+ sign  $-24.039 \pm 0.673$   $\chi^2/\text{NDF}$ : 586.5/25

All:  $-24.785 \pm 0.481$   $\chi^2/\text{NDF}$ : 1212.2/51

- sign  $-25.568 \pm 0.689$   $\chi^2/\text{NDF}$ : 623.1/25

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}$ : 48979.5/16

Left Out:  $-27.743 \pm 0.044$   $\chi^2/\text{NDF}$ : 98909.8/8

Right Out:  $-18.496 \pm 0.057$   $\chi^2/\text{NDF}$ : 80700.9/18

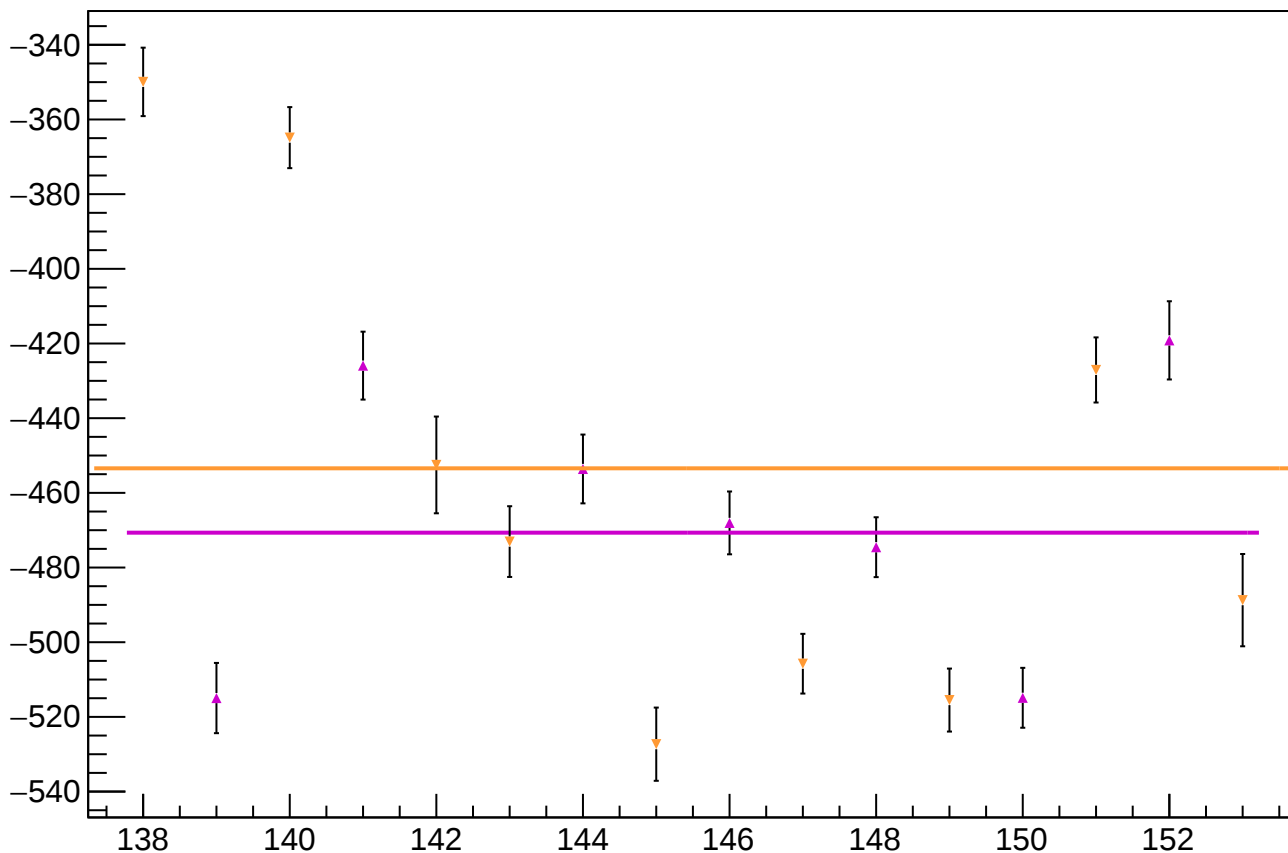
Left In:  $-24.546 \pm 0.046$   $\chi^2/\text{NDF}$ : 69066.5/6

+ sign  $-25.473 \pm 0.035$   $\chi^2/\text{NDF}$ : 155171.0/25

All:  $-23.849 \pm 0.025$   $\chi^2/\text{NDF}$ : 315987.7/51

- sign  $-22.160 \pm 0.036$   $\chi^2/\text{NDF}$ : 156505.6/25

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -453.427+/-3.104  $\chi^2/\text{NDF}$ : 420.2/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

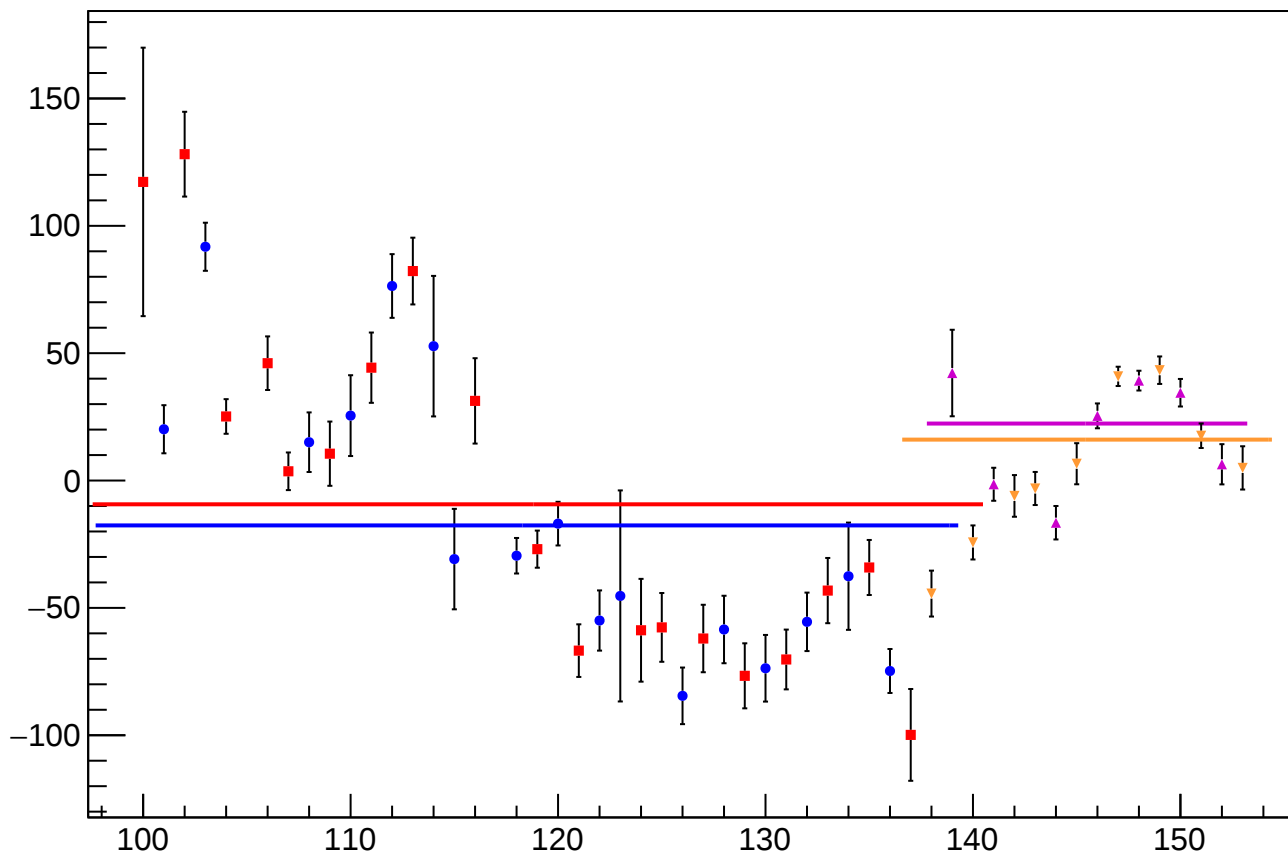
Left In: -470.662+/-3.342  $\chi^2/\text{NDF}$ : 104.7/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -461.409+/-2.275  $\chi^2/\text{NDF}$ : 539.2/15

- 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:  $16.067 \pm 2.001$   $\chi^2/\text{NDF}: 169.1/8$

Right Out:  $-9.330 \pm 2.609$   $\chi^2/\text{NDF}: 366.5/18$

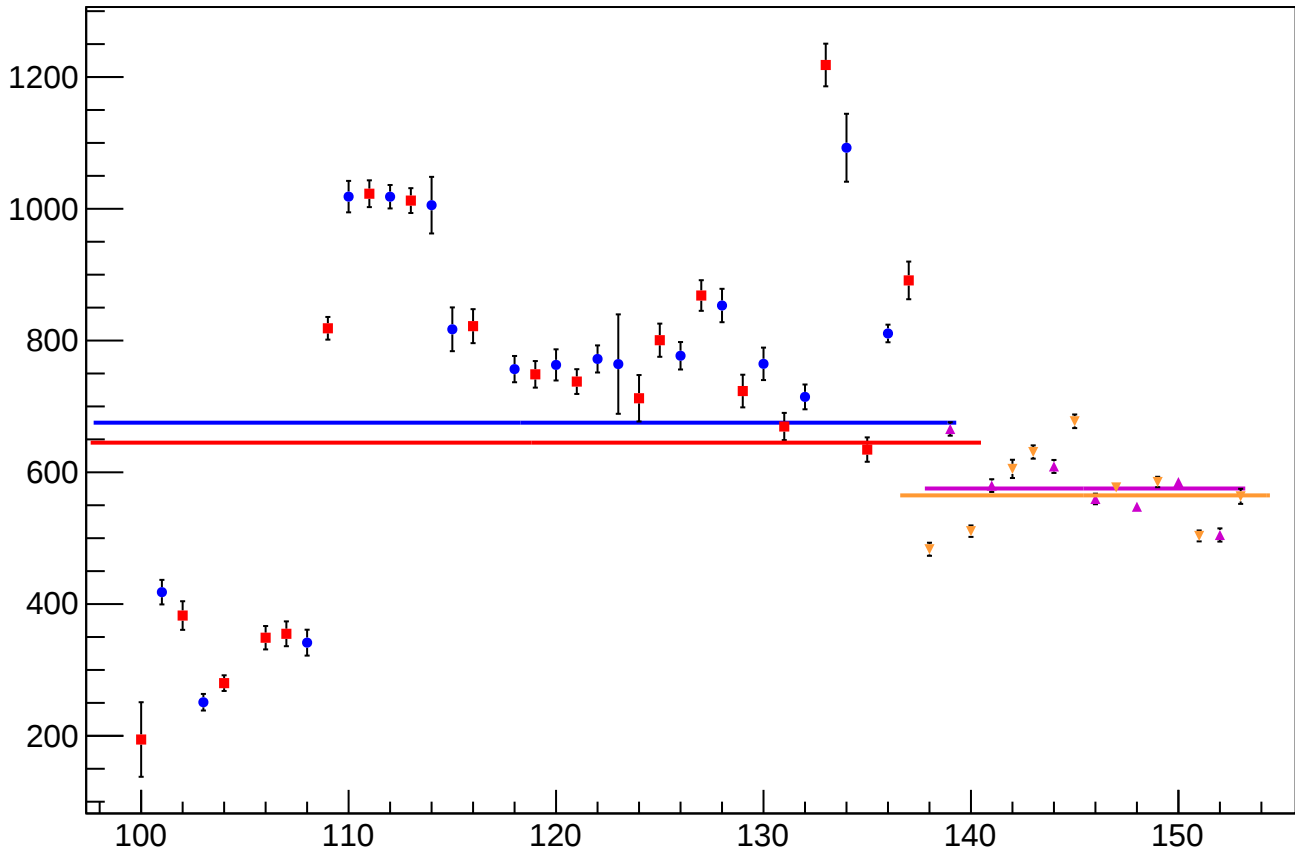
Left In:  $22.373 \pm 2.187$   $\chi^2/\text{NDF}: 78.4/6$

+ sign  $4.605 \pm 1.625$   $\chi^2/\text{NDF}: 627.6/25$

All:  $6.875 \pm 1.167$   $\chi^2/\text{NDF}: 1163.2/51$

- sign  $9.290 \pm 1.676$   $\chi^2/\text{NDF}: 531.5/25$

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 675.339+/-5.046  $\chi^2/\text{NDF}$ : 2582.7/16

Left Out: 564.979+/-3.104  $\chi^2/\text{NDF}$ : 339.9/8

Right Out: 645.022+/-4.758  $\chi^2/\text{NDF}$ : 3122.8/18

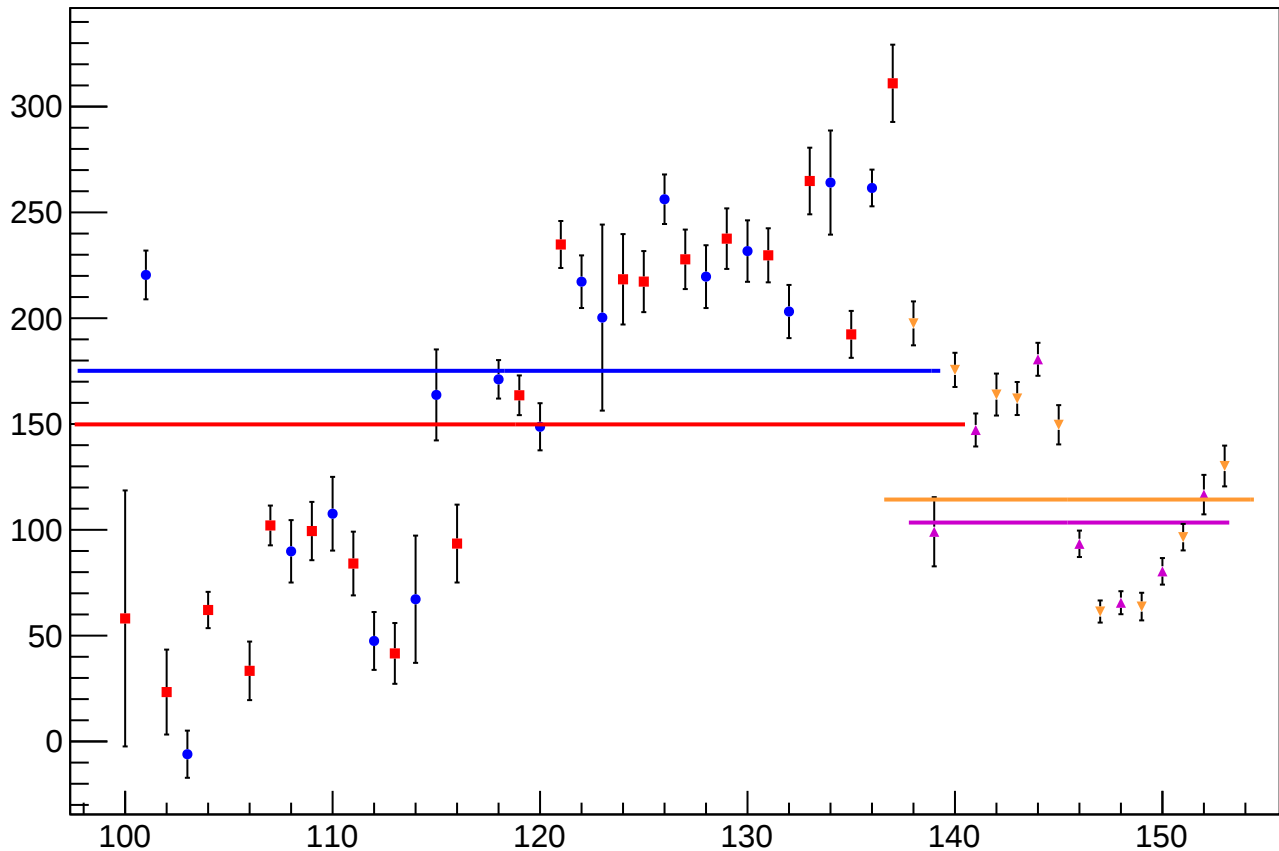
Left In: 575.425+/-3.305  $\chi^2/\text{NDF}$ : 159.1/6

+ sign 595.275+/-2.644  $\chi^2/\text{NDF}$ : 3269.7/25

All: 596.640+/-1.894  $\chi^2/\text{NDF}$ : 6696.5/51

- sign 598.080+/-2.715  $\chi^2/\text{NDF}$ : 3426.2/25

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In:  $175.142 \pm 3.209$   $\chi^2/\text{NDF}$ : 635.6/16

Left Out:  $114.314 \pm 2.507$   $\chi^2/\text{NDF}$ : 372.1/8

Right Out:  $149.822 \pm 3.041$   $\chi^2/\text{NDF}$ : 688.5/18

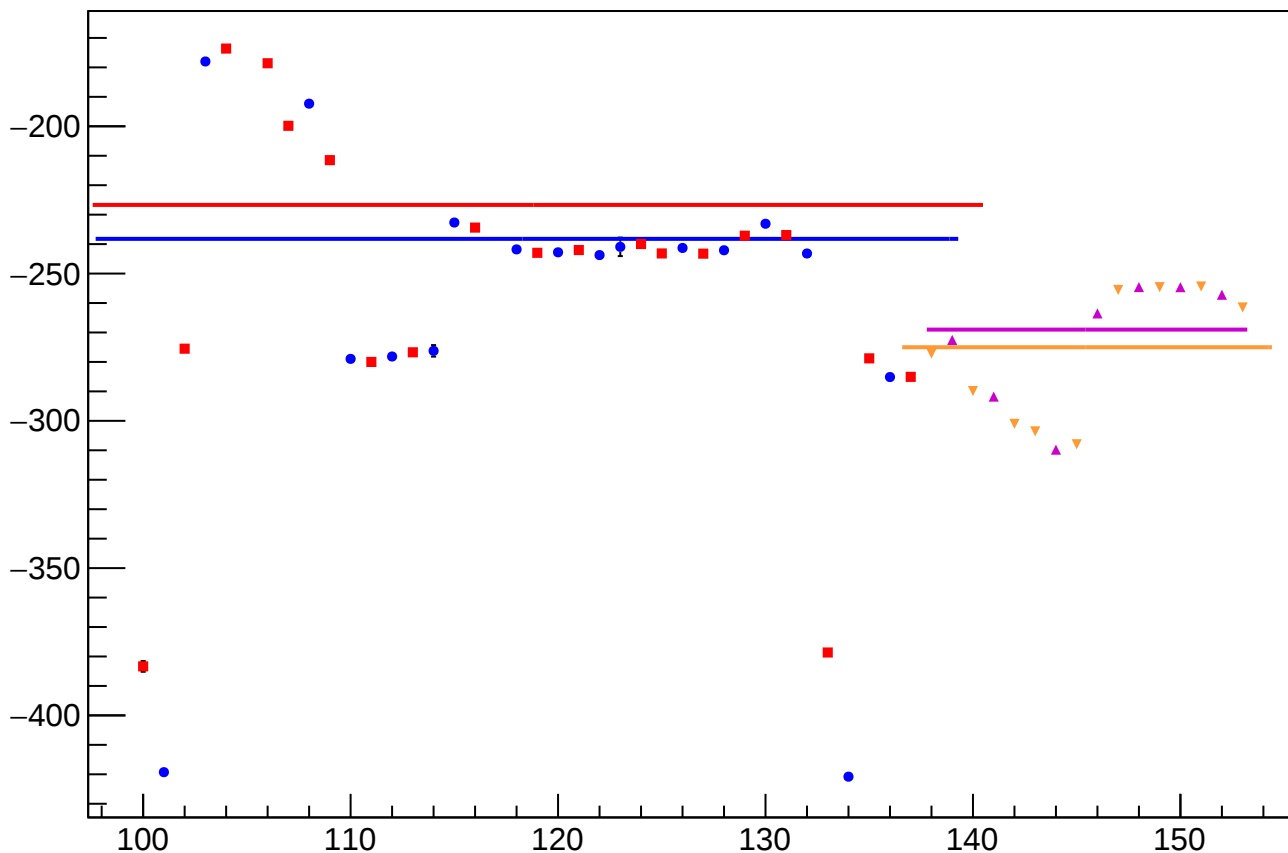
Left In:  $103.433 \pm 2.742$   $\chi^2/\text{NDF}$ : 196.3/6

+ sign  $137.362 \pm 1.975$   $\chi^2/\text{NDF}$ : 1230.9/25

All:  $130.996 \pm 1.418$   $\chi^2/\text{NDF}$ : 2265.4/51

- sign  $124.231 \pm 2.037$   $\chi^2/\text{NDF}$ : 1013.1/25

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In:  $-238.217 \pm 0.160$   $\chi^2/\text{NDF}: 167098.2/16$

Left Out:  $-275.013 \pm 0.130$   $\chi^2/\text{NDF}: 26124.6/8$

Right Out:  $-226.696 \pm 0.151$   $\chi^2/\text{NDF}: 102814.8/18$

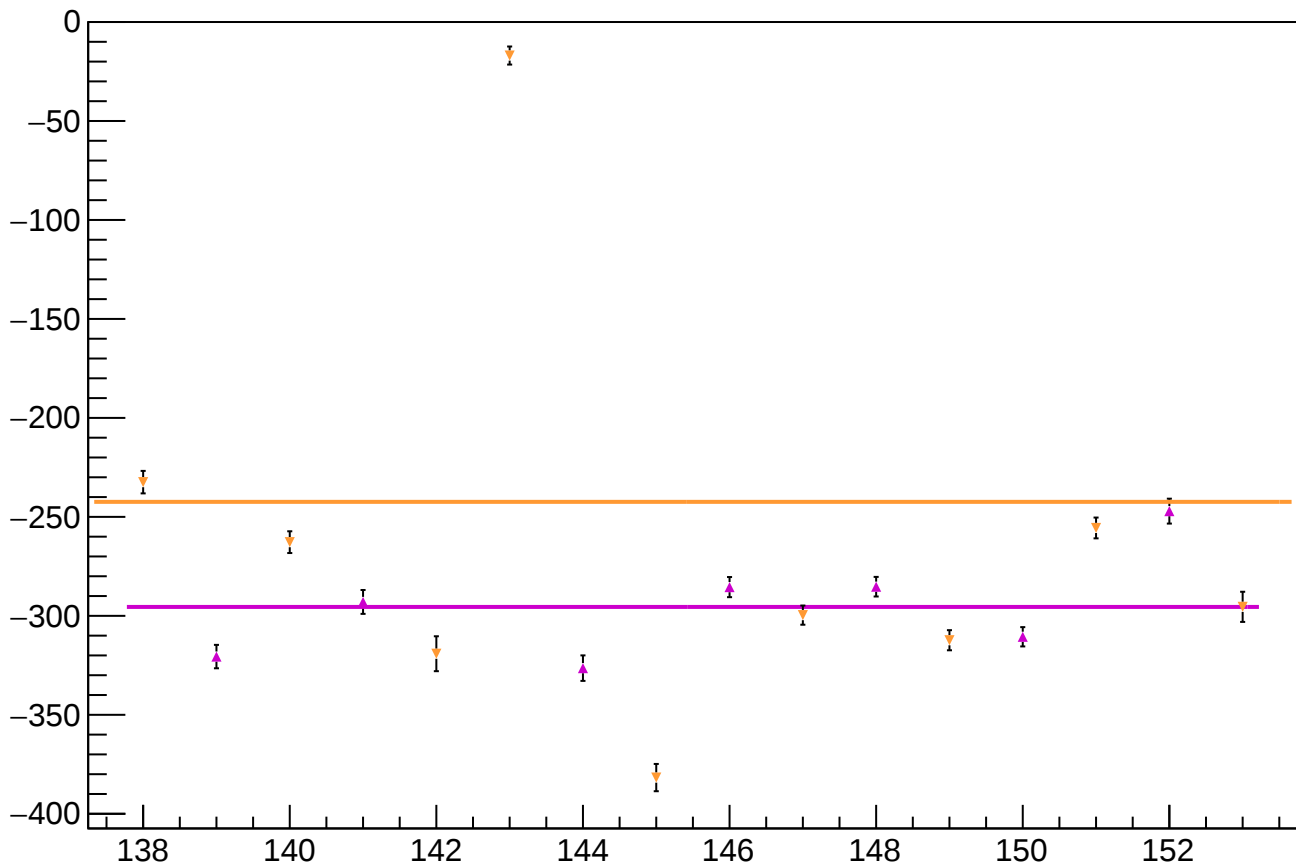
Left In:  $-269.023 \pm 0.138$   $\chi^2/\text{NDF}: 17577.5/6$

+ sign  $-260.327 \pm 0.101$   $\chi^2/\text{NDF}: 224978.8/25$

All:  $-255.092 \pm 0.072$   $\chi^2/\text{NDF}: 393594.2/51$

- sign  $-249.781 \pm 0.102$   $\chi^2/\text{NDF}: 163215.6/25$

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -242.411+/-1.887  $\chi^2/\text{NDF}$ : 3326.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

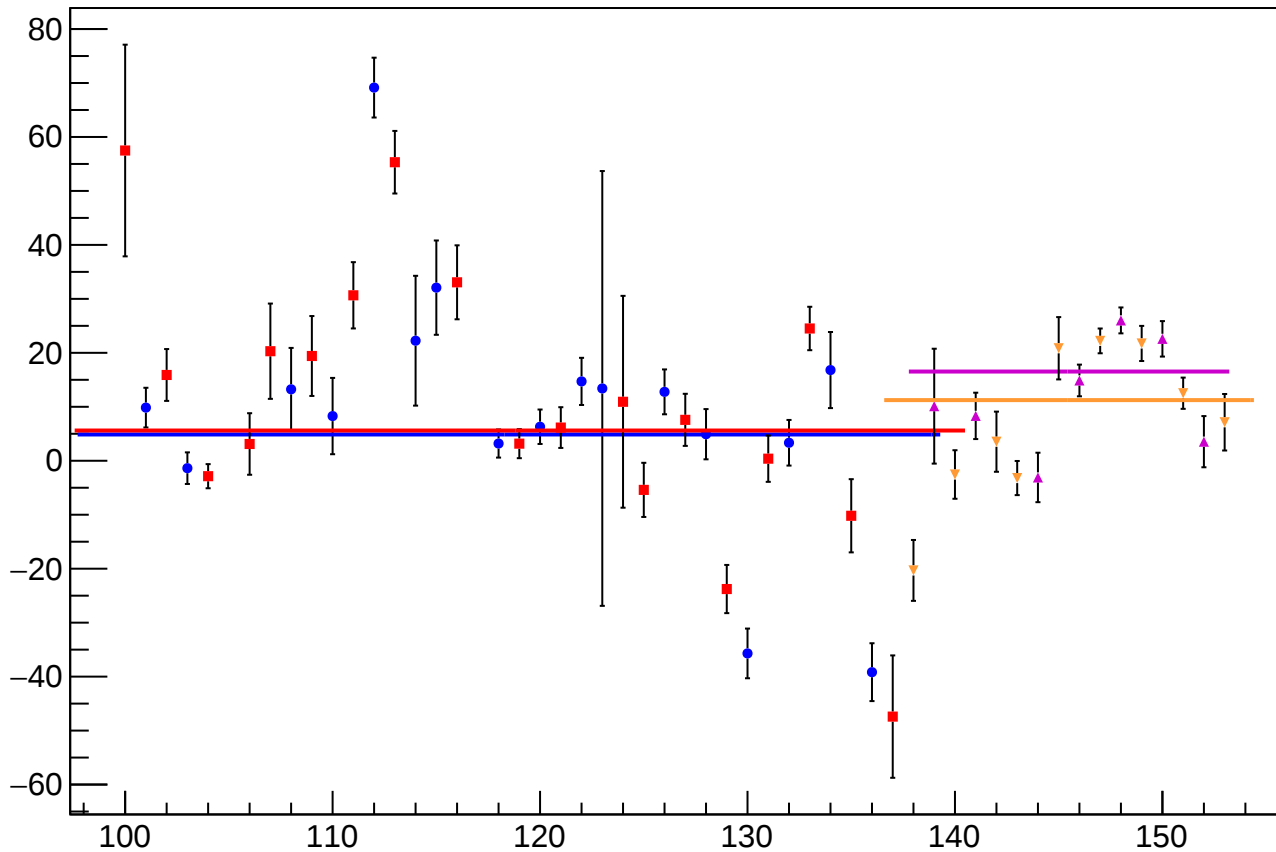
Left In: -295.497+/-2.099  $\chi^2/\text{NDF}$ : 118.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -266.136+/-1.403  $\chi^2/\text{NDF}$ : 3798.7/15

- 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:  $11.238 \pm 1.210$   $\chi^2/\text{NDF}$ : 100.3/8

Right Out:  $5.605 \pm 1.069$   $\chi^2/\text{NDF}$ : 238.6/18

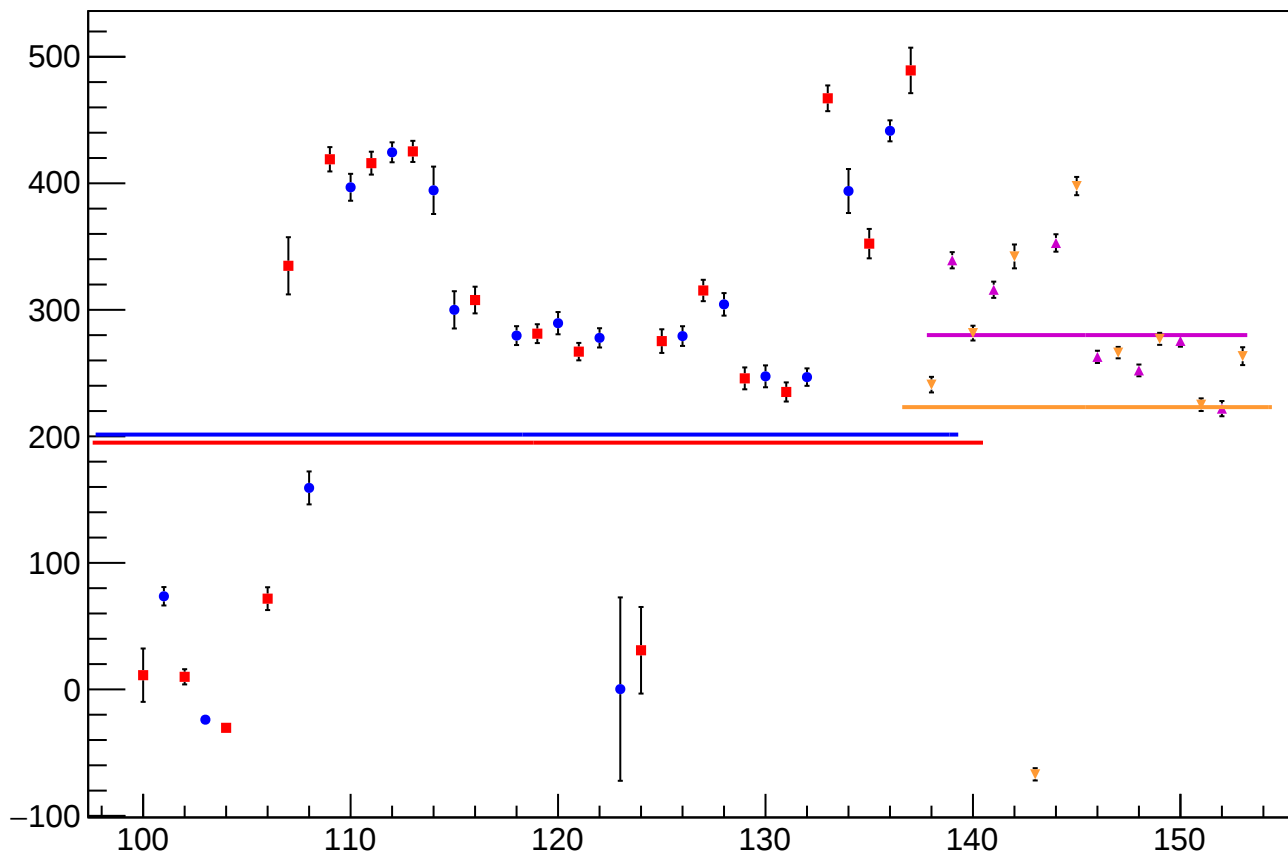
Left In:  $16.532 \pm 1.364$   $\chi^2/\text{NDF}$ : 49.2/6

+ sign  $7.725 \pm 0.810$   $\chi^2/\text{NDF}$ : 427.1/25

All:  $8.705 \pm 0.584$   $\chi^2/\text{NDF}$ : 757.6/51

- sign  $9.764 \pm 0.842$   $\chi^2/\text{NDF}$ : 327.5/25

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 201.407 $\pm$ 1.974  $\chi^2$ /NDF: 6740.4/16

Left Out: 223.109 $\pm$ 1.885  $\chi^2$ /NDF: 4660.8/8

Right Out: 195.024 $\pm$ 1.923  $\chi^2$ /NDF: 8254.7/18

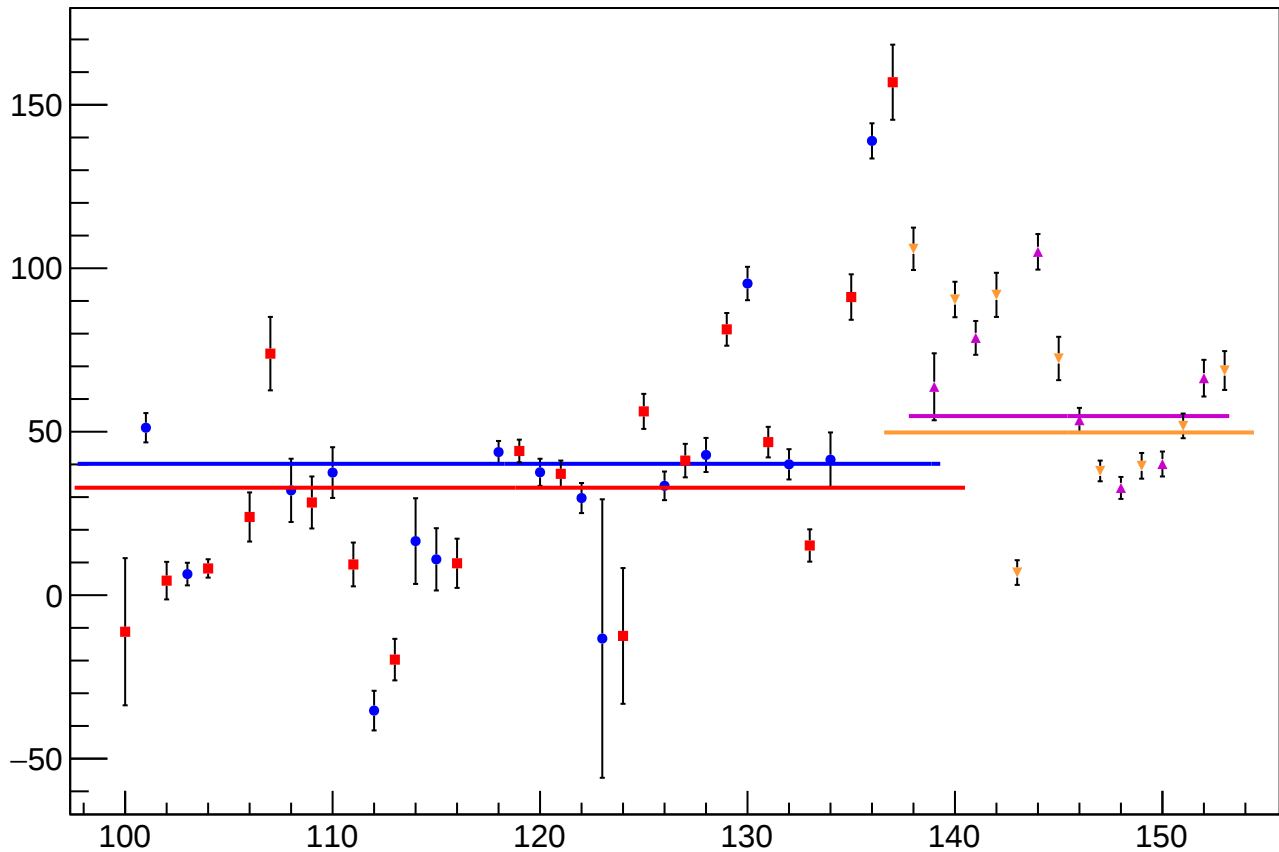
Left In: 280.038 $\pm$ 2.066  $\chi^2$ /NDF: 371.0/6

+ sign 212.754 $\pm$ 1.363  $\chi^2$ /NDF: 11464.5/25

All: 223.272 $\pm$ 0.979  $\chi^2$ /NDF: 21120.3/51

- sign 234.487 $\pm$ 1.408  $\chi^2$ /NDF: 9532.8/25

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.183 $\pm$ 1.270  $\chi^2$ /NDF: 734.0/16

Left Out: 49.774 $\pm$ 1.515  $\chi^2$ /NDF:341.3/8

Right Out: 32.873 $\pm$ 1.251  $\chi^2$ /NDF: 551.0/18

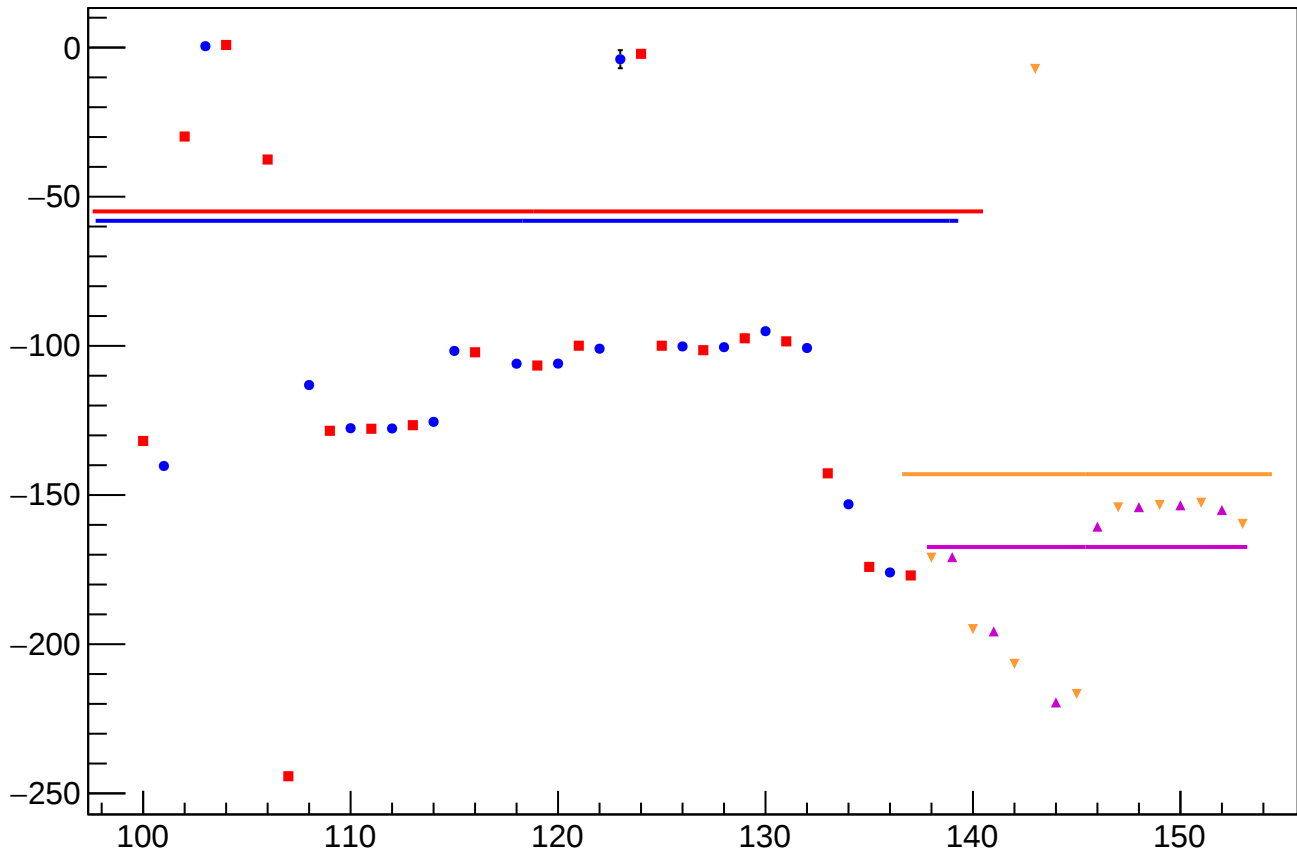
Left In: 54.789 $\pm$ 1.714  $\chi^2$ /NDF:169.5/6

+ sign 44.140 $\pm$ 0.973  $\chi^2$ /NDF: 1098.9/25

All: 42.383 $\pm$ 0.701  $\chi^2$ /NDF: 1932.8/51

- sign 40.490 $\pm$ 1.010  $\chi^2$ /NDF: 827.2/25

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -58.077 $\pm$ 0.062  $\chi^2$ /NDF: 1104437.7/16

Left Out: -143.008 $\pm$ 0.079  $\chi^2$ /NDF: 644338.4/8

Right Out: -54.929 $\pm$ 0.060  $\chi^2$ /NDF: 1003908.6/18

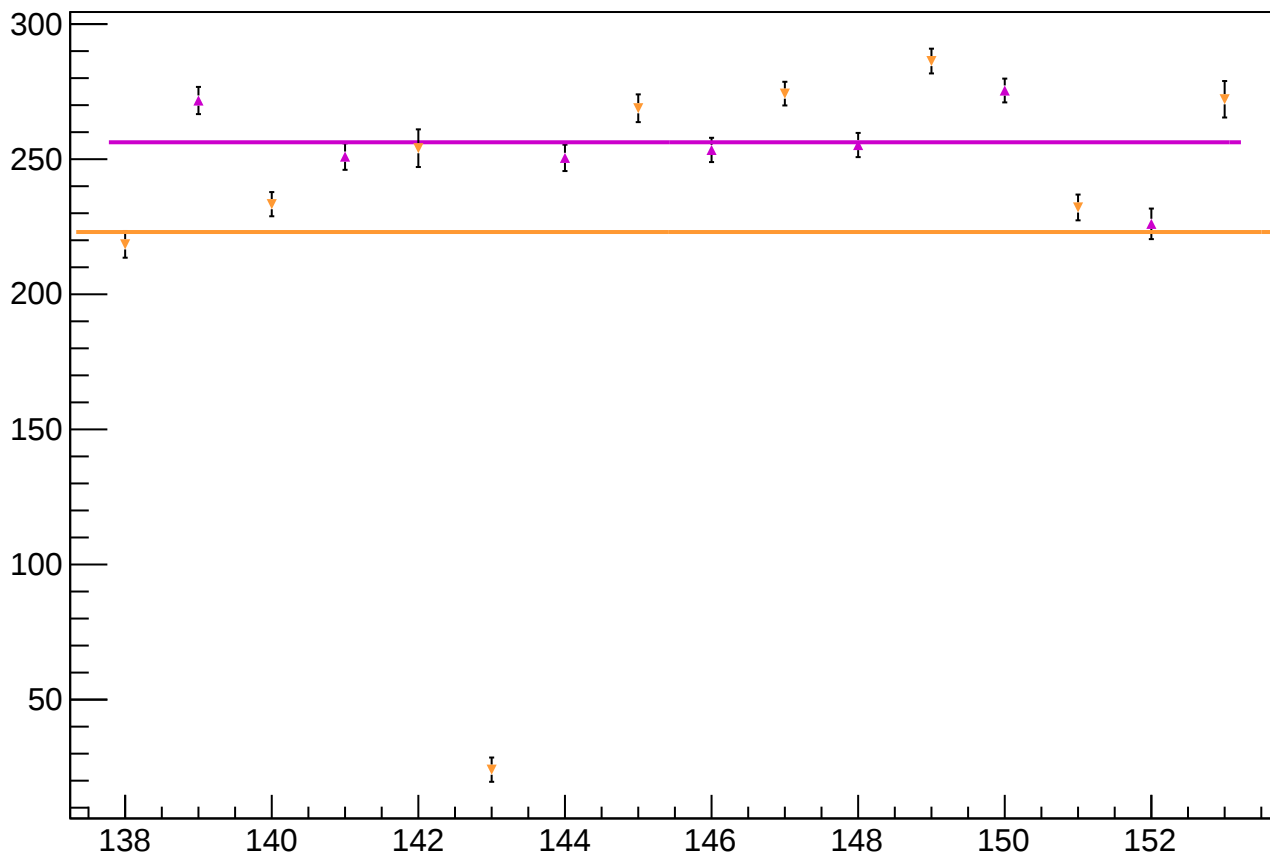
Left In: -167.404 $\pm$ 0.086  $\chi^2$ /NDF: 55187.0/6

+ sign -90.155 $\pm$ 0.049  $\chi^2$ /NDF: 2466276.2/25

All: -90.954 $\pm$ 0.035  $\chi^2$ /NDF: 4669503.2/51

- sign -91.778 $\pm$ 0.049  $\chi^2$ /NDF: 2202677.8/25

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 223.049 $\pm$ 1.656  $\chi^2$ /NDF:2452.0/8

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

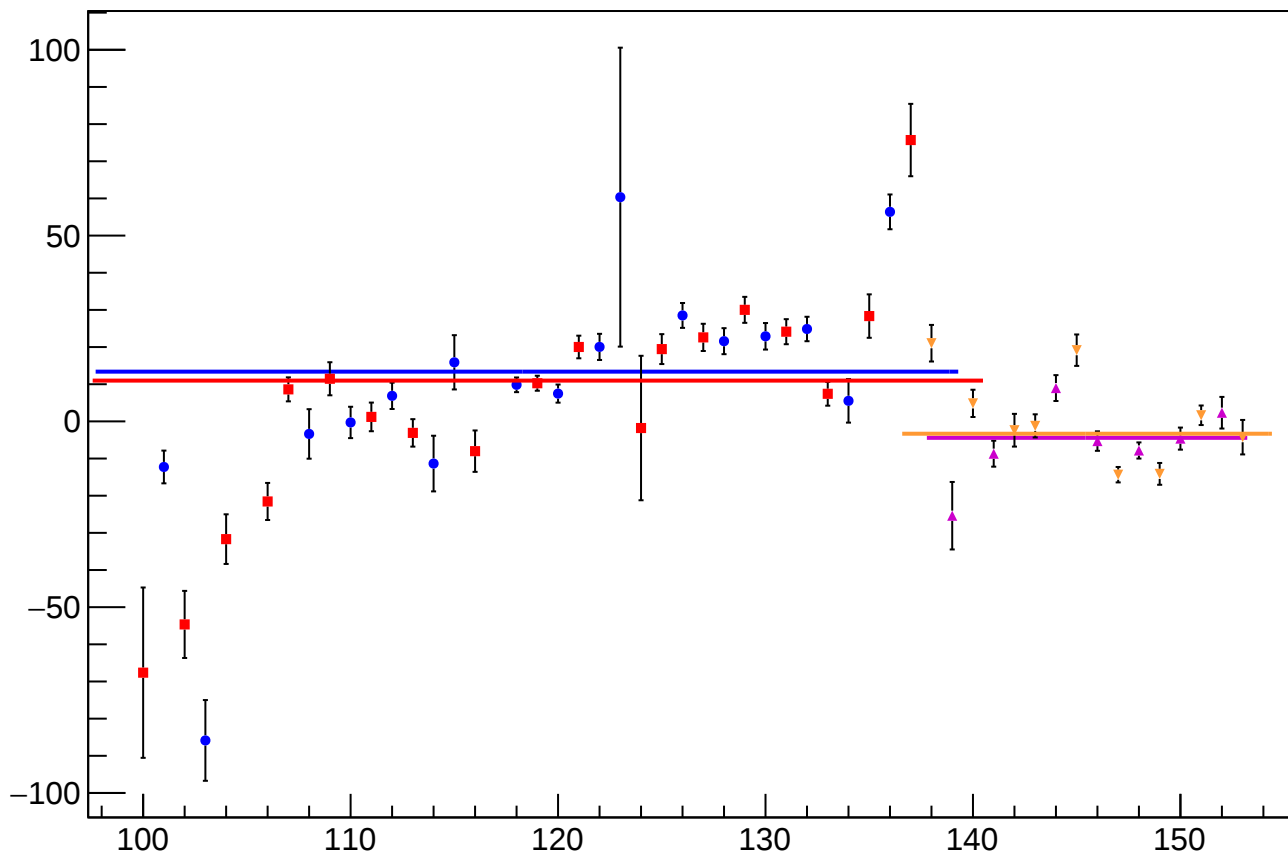
Left In: 256.261 $\pm$ 1.809  $\chi^2$ /NDF:59.9/6

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 238.190 $\pm$ 1.222  $\chi^2$ /NDF: 2695.2/15

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 13.385 $\pm$ 0.921  $\chi^2$ /NDF: 294.1/16

Left Out: -3.322 $\pm$ 1.075  $\chi^2$ /NDF:103.5/8

Right Out: 10.975 $\pm$ 0.915  $\chi^2$ /NDF: 304.0/18

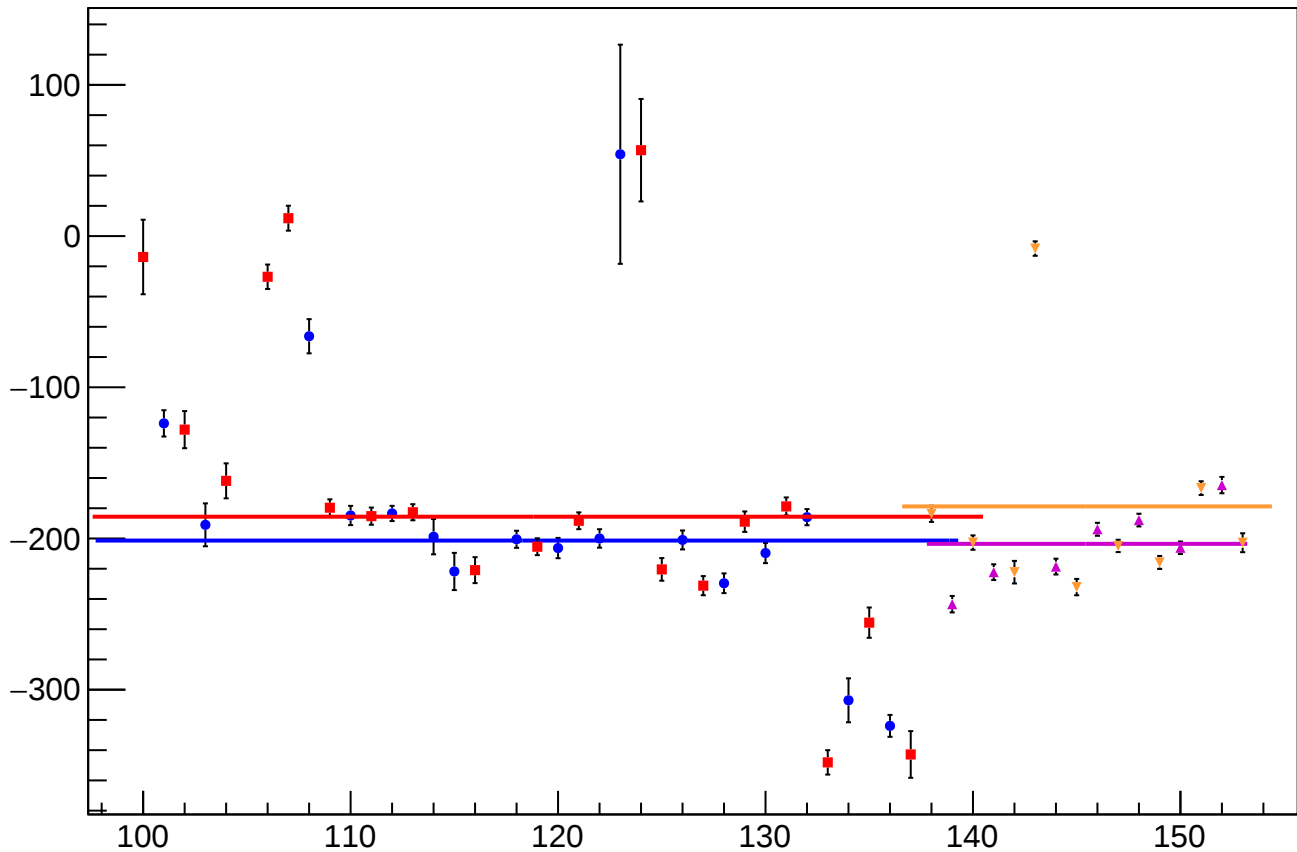
Left In: -4.426 $\pm$ 1.193  $\chi^2$ /NDF:26.7/6

+ sign 6.314 $\pm$ 0.700  $\chi^2$ /NDF: 536.8/25

All: 5.813 $\pm$ 0.504  $\chi^2$ /NDF: 973.6/51

- sign 5.273 $\pm$ 0.726  $\chi^2$ /NDF: 435.7/25

# 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:  $-178.781 \pm 1.661$   $\chi^2/\text{NDF}$ : 1561.2/8

Right Out:  $-185.589 \pm 1.699$   $\chi^2/\text{NDF}$ : 1748.2/18

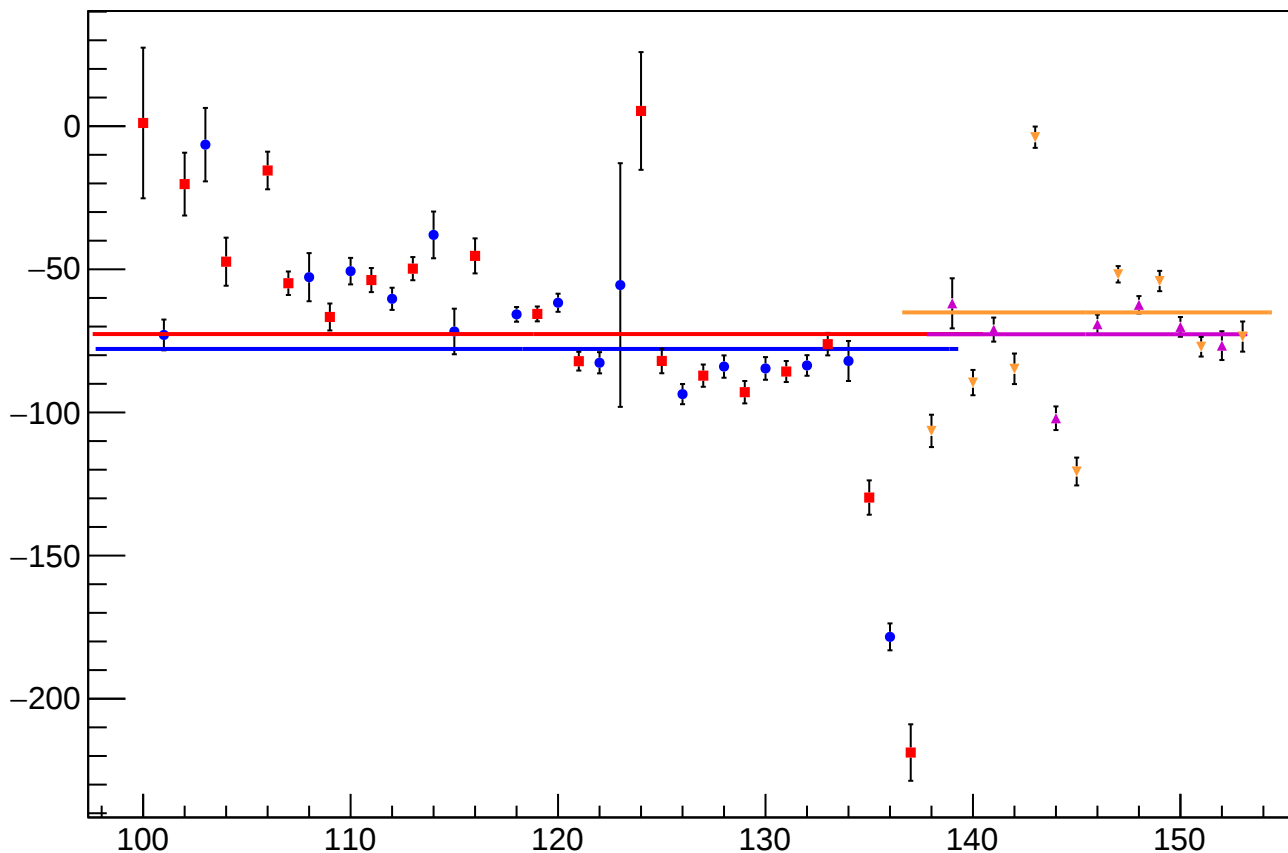
Left In:  $-203.539 \pm 1.792$   $\chi^2/\text{NDF}$ : 145.9/6

+ sign  $-189.270 \pm 1.216$   $\chi^2/\text{NDF}$ : 2272.1/25

All:  $-191.644 \pm 0.866$   $\chi^2/\text{NDF}$ : 4226.7/51

- sign  $-194.087 \pm 1.233$   $\chi^2/\text{NDF}$ : 1946.9/25

# 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:  $-65.051 \pm 1.343$   $\chi^2/\text{NDF}$ : 545.2/8

Right Out:  $-72.616 \pm 1.053$   $\chi^2/\text{NDF}$ : 606.8/18

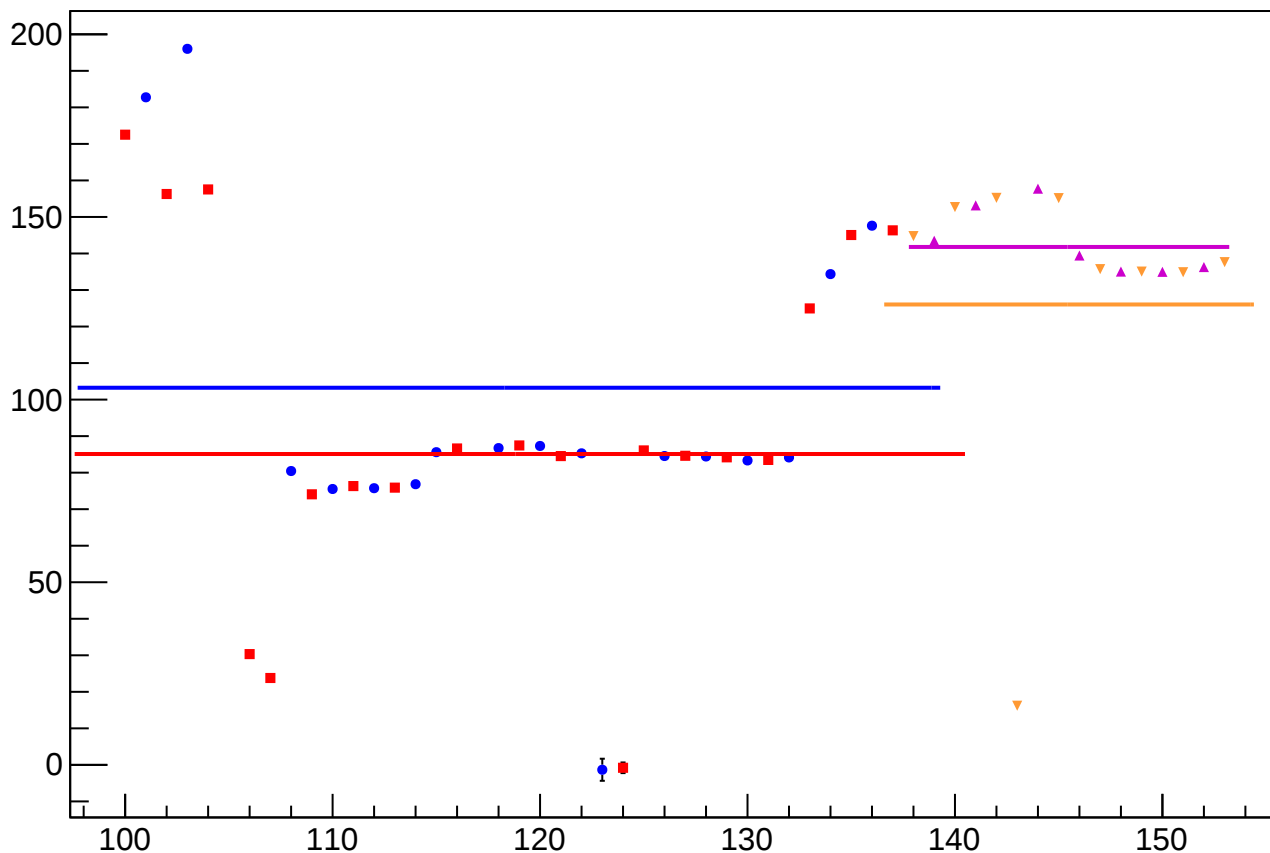
Left In:  $-72.686 \pm 1.492$   $\chi^2/\text{NDF}$ : 66.0/6

+ sign  $-72.870 \pm 0.836$   $\chi^2/\text{NDF}$ : 1257.0/25

All:  $-72.758 \pm 0.599$   $\chi^2/\text{NDF}$ : 1929.8/51

- sign  $-72.639 \pm 0.860$   $\chi^2/\text{NDF}$ : 672.8/25

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $103.247 \pm 0.070$   $\chi^2/\text{NDF}: 273390.3/16$

Left Out:  $126.041 \pm 0.070$   $\chi^2/\text{NDF}: 388166.7/8$

Right Out:  $85.105 \pm 0.064$   $\chi^2/\text{NDF}: 423525.6/18$

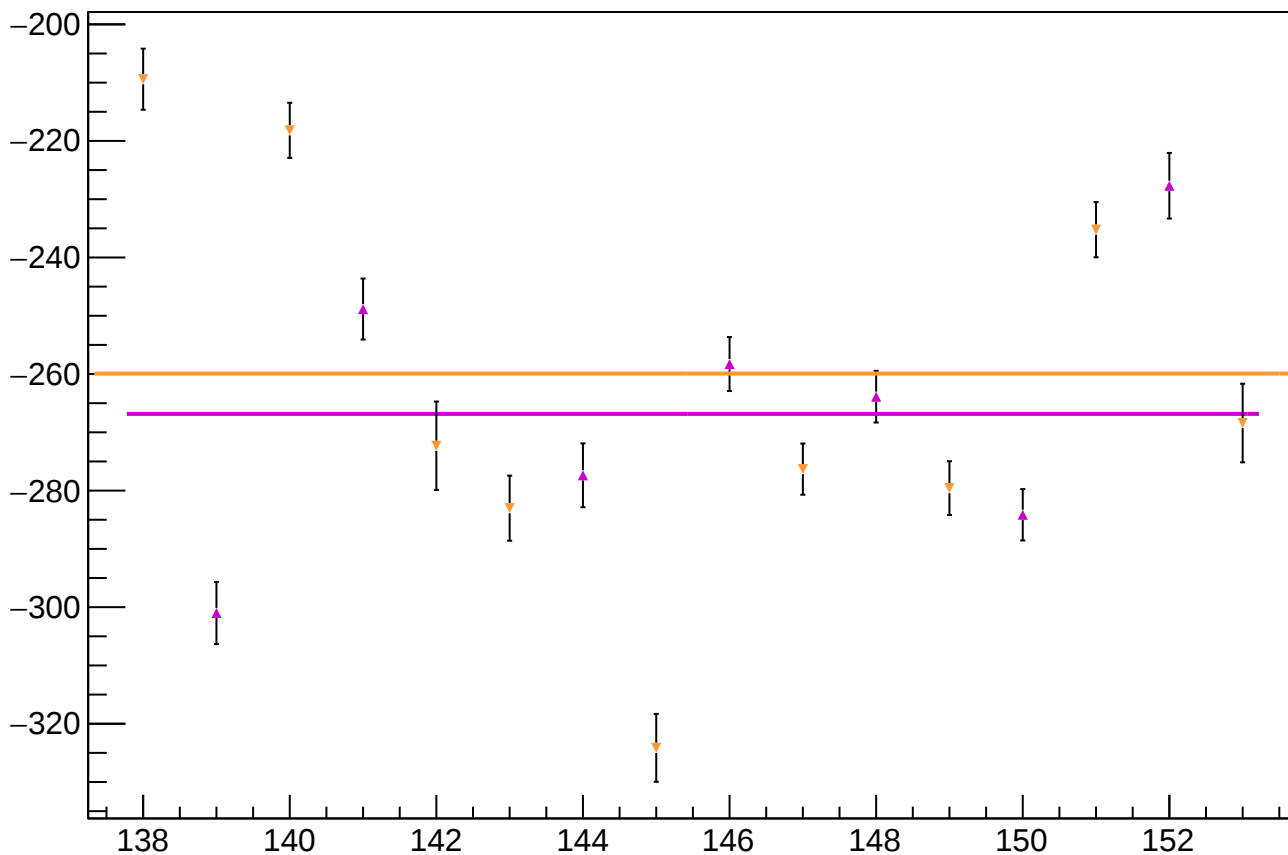
Left In:  $141.789 \pm 0.075$   $\chi^2/\text{NDF}: 11599.5/6$

+ sign  $114.794 \pm 0.049$   $\chi^2/\text{NDF}: 714573.1/25$

All:  $111.815 \pm 0.035$   $\chi^2/\text{NDF}: 1489895.8/51$

- sign  $108.956 \pm 0.048$   $\chi^2/\text{NDF}: 768223.3/25$

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -259.919+/-1.753  $\chi^2/\text{NDF}$ : 373.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

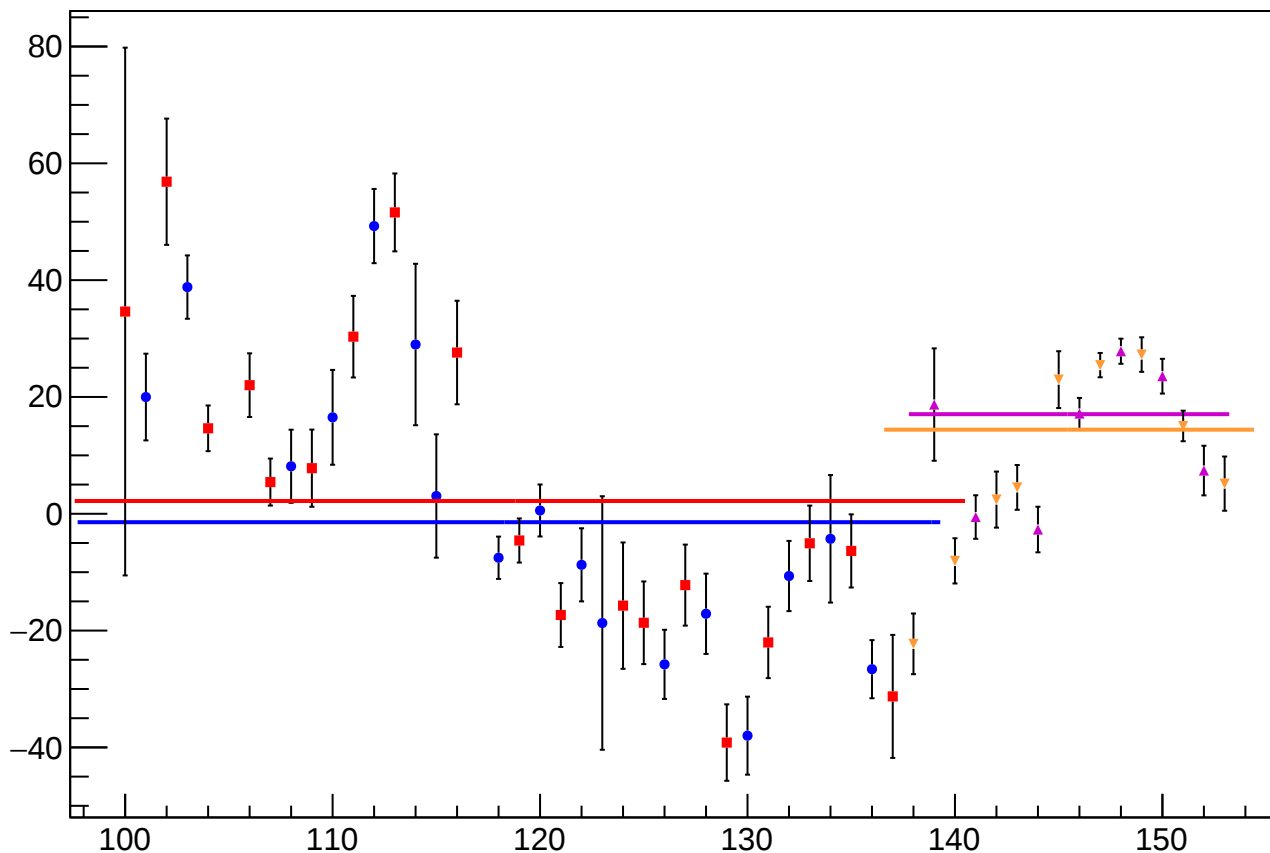
Left In: -266.838+/-1.871  $\chi^2/\text{NDF}$ : 124.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -263.153+/-1.280  $\chi^2/\text{NDF}$ : 504.5/15

- 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+/-1.516  $\chi^2/\text{NDF}$ : 224.4/16

Left Out: 14.398+/-1.121  $\chi^2/\text{NDF}$ : 150.6/8

Right Out: 2.188+/-1.400  $\chi^2/\text{NDF}$ : 230.7/18

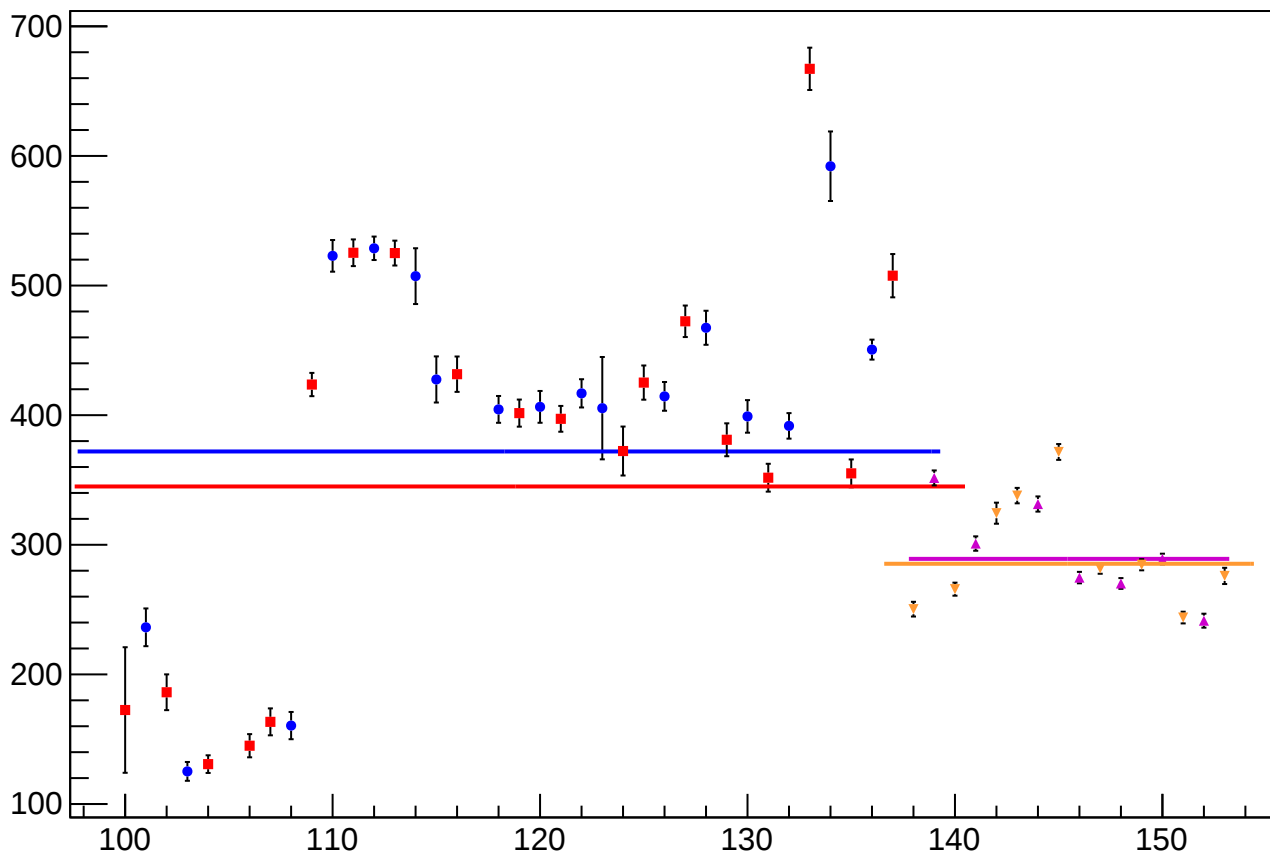
Left In: 17.051+/-1.219  $\chi^2/\text{NDF}$ : 83.0/6

+ sign 8.799+/-0.901  $\chi^2/\text{NDF}$ : 445.6/25

All: 9.702+/-0.644  $\chi^2/\text{NDF}$ : 825.4/51

- sign 10.643+/-0.920  $\chi^2/\text{NDF}$ : 377.8/25

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 371.997 $\pm$ 2.765  $\chi^2$ /NDF: 2431.2/16

Left Out: 285.350 $\pm$ 1.745  $\chi^2$ /NDF: 441.0/8

Right Out: 344.990 $\pm$ 2.561  $\chi^2$ /NDF: 3414.4/18

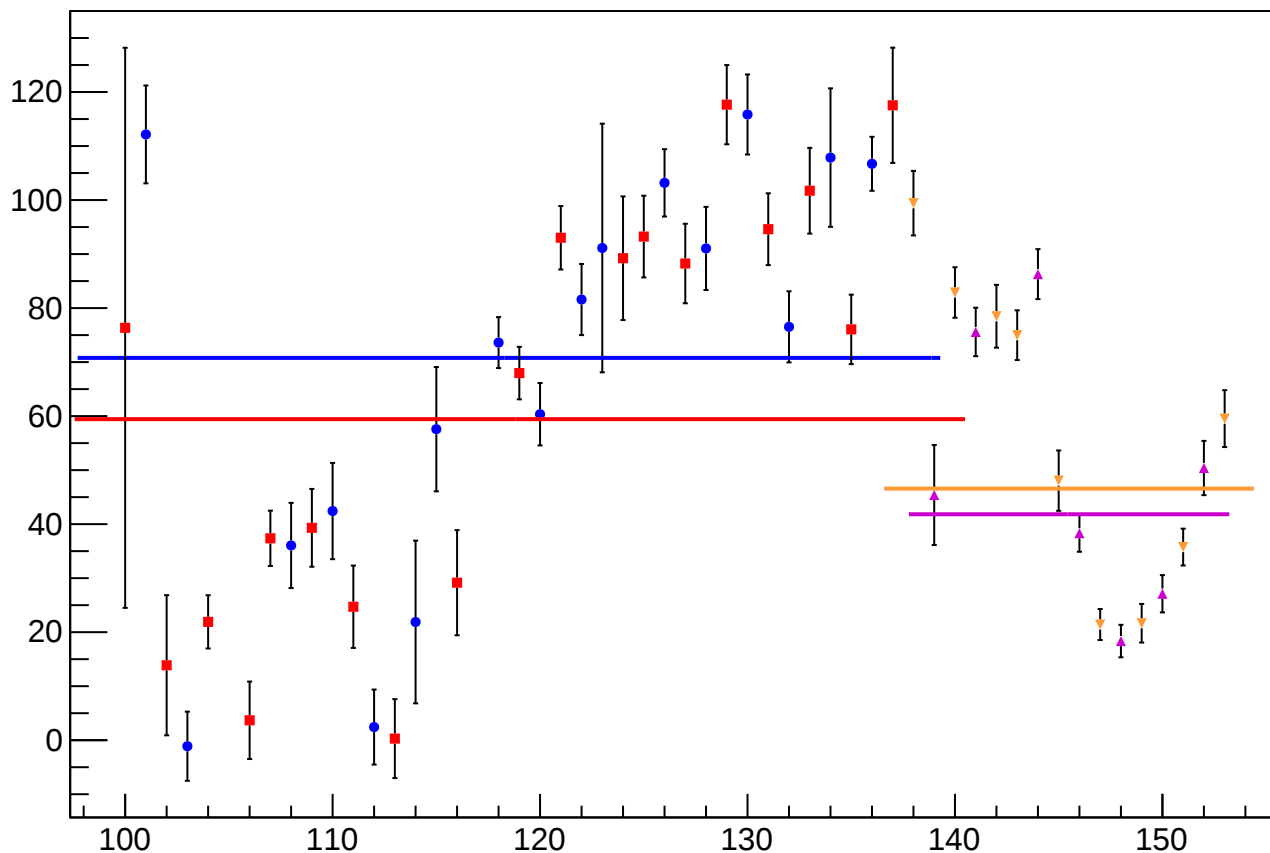
Left In: 289.137 $\pm$ 1.845  $\chi^2$ /NDF: 283.4/6

+ sign 310.044 $\pm$ 1.476  $\chi^2$ /NDF: 3574.5/25

All: 309.148 $\pm$ 1.051  $\chi^2$ /NDF: 7586.1/51

- sign 308.225 $\pm$ 1.497  $\chi^2$ /NDF: 4010.9/25

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.780 $\pm$ 1.747  $\chi^2/\text{NDF}$ : 423.9/16

Left Out: 46.582 $\pm$ 1.408  $\chi^2/\text{NDF}$ : 348.5/8

Right Out: 59.438 $\pm$ 1.631  $\chi^2/\text{NDF}$ : 486.7/18

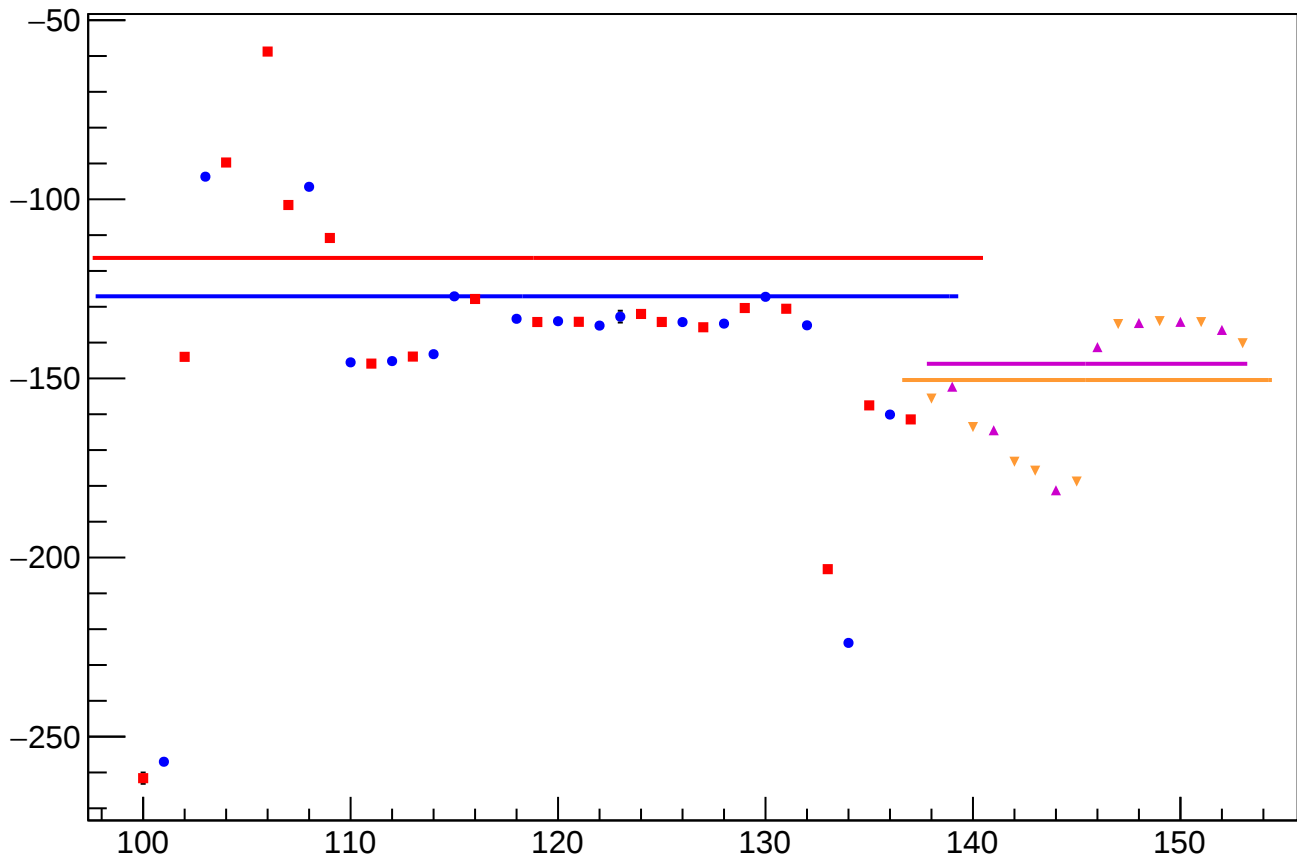
Left In: 41.831 $\pm$ 1.530  $\chi^2/\text{NDF}$ : 232.0/6

+ sign 56.112 $\pm$ 1.096  $\chi^2/\text{NDF}$ : 888.8/25

All: 53.146 $\pm$ 0.782  $\chi^2/\text{NDF}$ : 1684.4/51

- sign 50.072 $\pm$ 1.116  $\chi^2/\text{NDF}$ : 780.7/25

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-127.076 \pm 0.090$   $\chi^2/\text{NDF}: 167028.9/16$

Left Out:  $-150.445 \pm 0.073$   $\chi^2/\text{NDF}: 56992.2/8$

Right Out:  $-116.365 \pm 0.083$   $\chi^2/\text{NDF}: 167555.3/18$

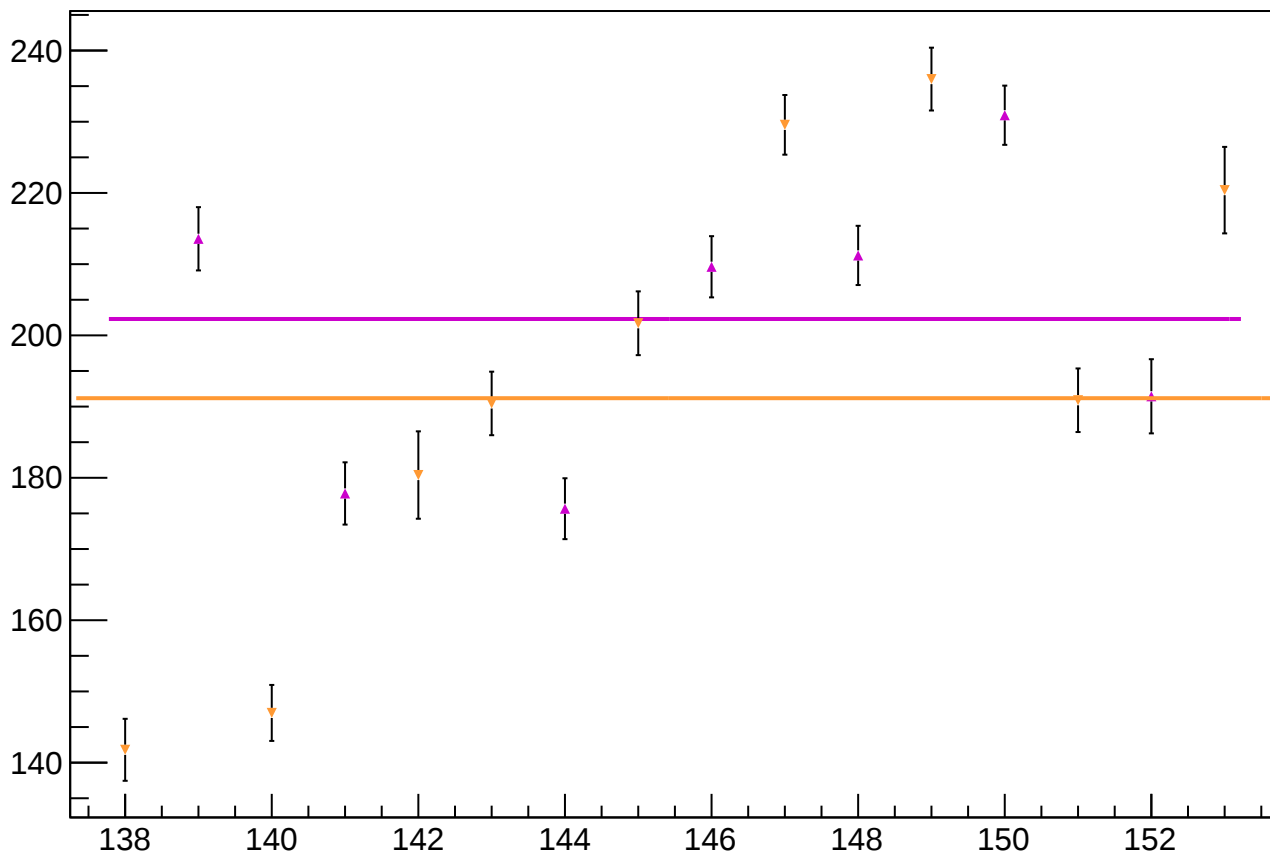
Left In:  $-145.918 \pm 0.077$   $\chi^2/\text{NDF}: 37748.3/6$

+ sign  $-141.042 \pm 0.057$   $\chi^2/\text{NDF}: 264742.0/25$

All:  $-136.605 \pm 0.040$   $\chi^2/\text{NDF}: 550375.5/51$

- sign  $-132.224 \pm 0.056$   $\chi^2/\text{NDF}: 273501.0/25$

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 191.178+/-1.525  $\chi^2/\text{NDF}$ : 474.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

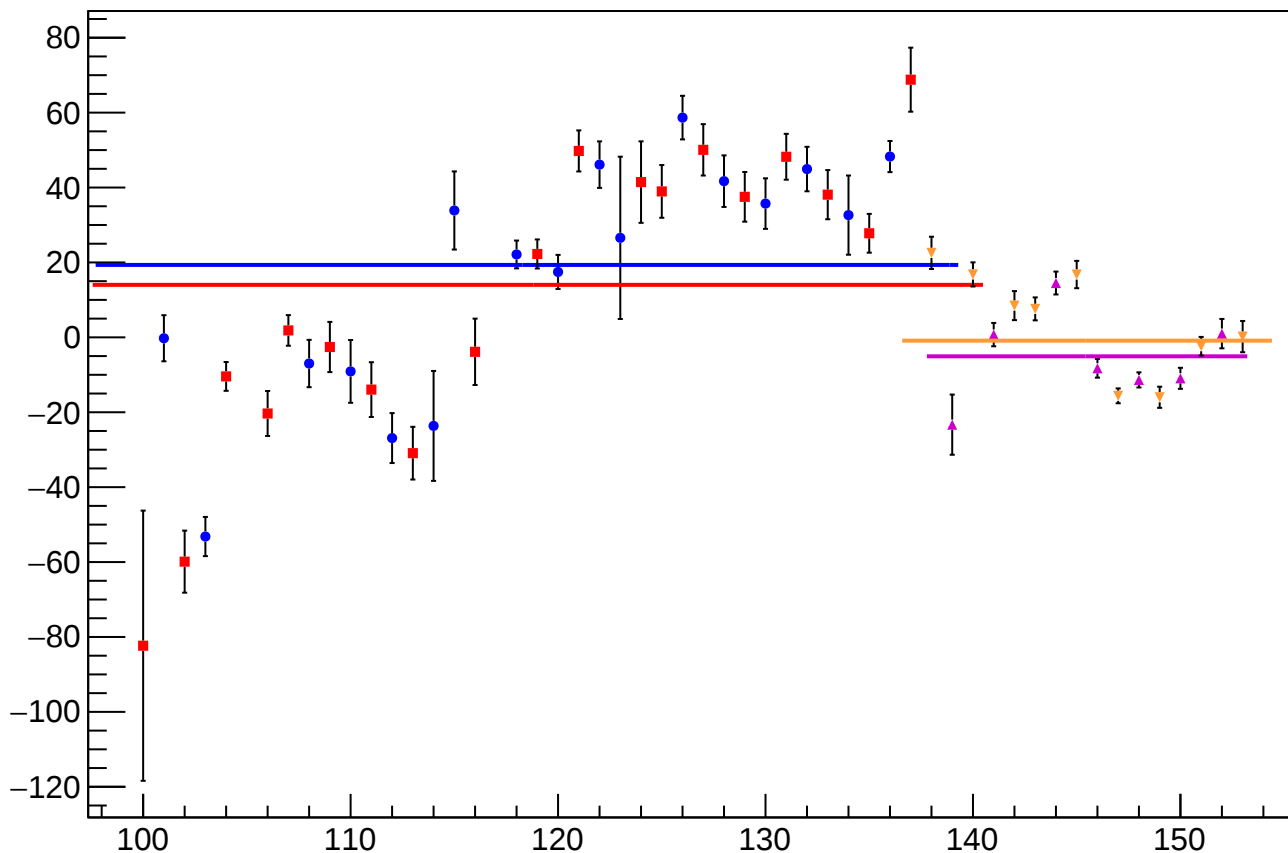
Left In: 202.300+/-1.657  $\chi^2/\text{NDF}$ : 135.9/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 196.281+/-1.122  $\chi^2/\text{NDF}$ : 634.3/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 19.337+/-1.482  $\chi^2$ /NDF: 439.8/16

Left Out: -0.879+/-1.001  $\chi^2$ /NDF:180.8/8

Right Out: 14.018+/-1.390  $\chi^2$ /NDF: 433.2/18

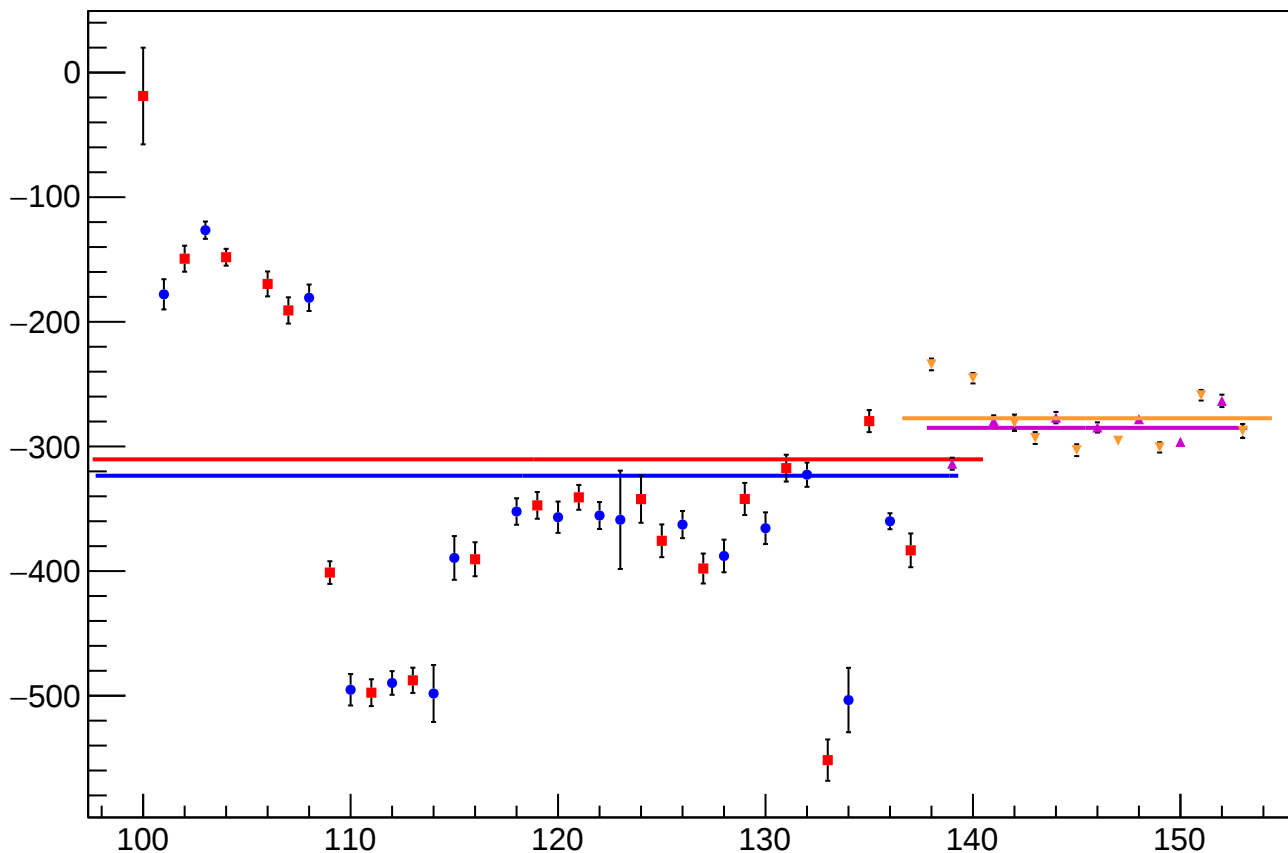
Left In: -5.065+/-1.102  $\chi^2$ /NDF:67.8/6

+ sign 5.454+/-0.830  $\chi^2$ /NDF: 748.3/25

All: 3.941+/-0.598  $\chi^2$ /NDF: 1372.0/51

- sign 2.301+/-0.864  $\chi^2$ /NDF: 616.7/25

# 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:  $-277.374 \pm 1.535$   $\chi^2/\text{NDF}: 258.9/8$

Right Out:  $-310.336 \pm 2.522$   $\chi^2/\text{NDF}: 2300.5/18$

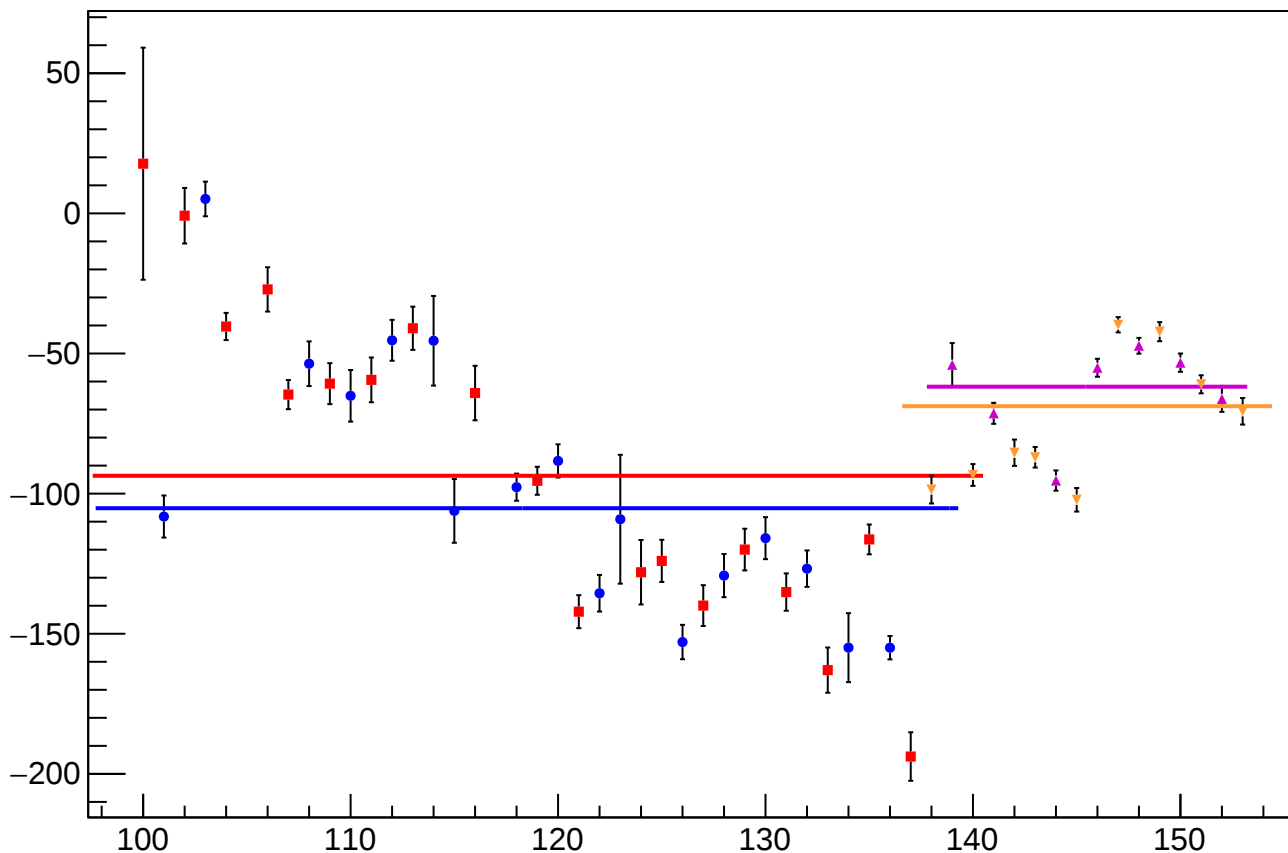
Left In:  $-285.073 \pm 1.647$   $\chi^2/\text{NDF}: 70.8/6$

+ sign  $-288.808 \pm 1.331$   $\chi^2/\text{NDF}: 2330.4/25$

All:  $-290.650 \pm 0.958$   $\chi^2/\text{NDF}: 4776.1/51$

- sign  $-292.626 \pm 1.379$   $\chi^2/\text{NDF}: 2441.7/25$

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -105.203+/-1.697  $\chi^2$ /NDF: 735.6/16

Left Out: -68.796+/-1.247  $\chi^2$ /NDF:355.4/8

Right Out: -93.625+/-1.610  $\chi^2$ /NDF: 822.7/18

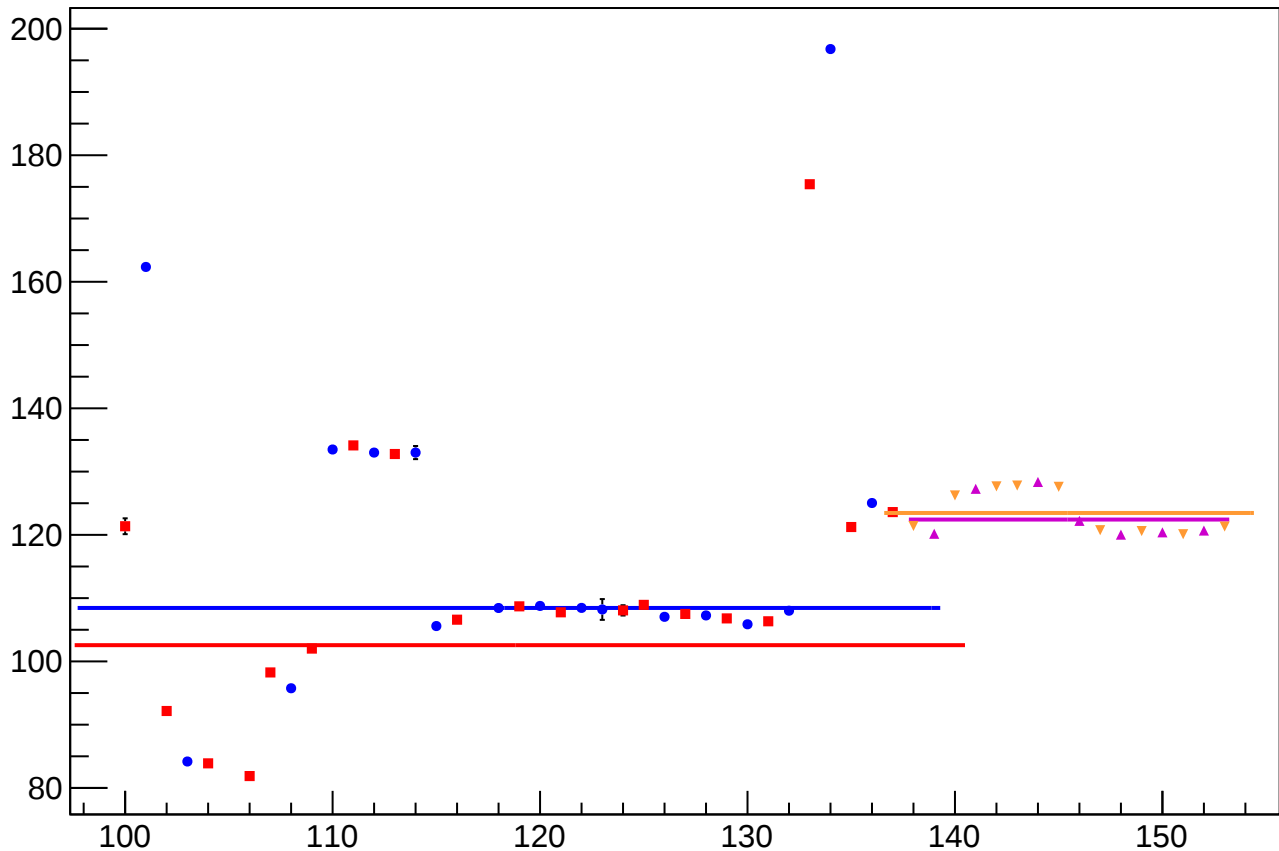
Left In: -61.844+/-1.376  $\chi^2$ /NDF:132.1/6

+ sign -81.569+/-1.005  $\chi^2$ /NDF: 1389.9/25

All: -78.541+/-0.725  $\chi^2$ /NDF: 2588.8/51

- sign -75.260+/-1.046  $\chi^2$ /NDF: 1180.0/25

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 123.461 $\pm$ 0.064  $\chi^2$ /NDF: 2523.3/8

Right Out: 102.566 $\pm$ 0.079  $\chi^2$ /NDF: 53135.3/18

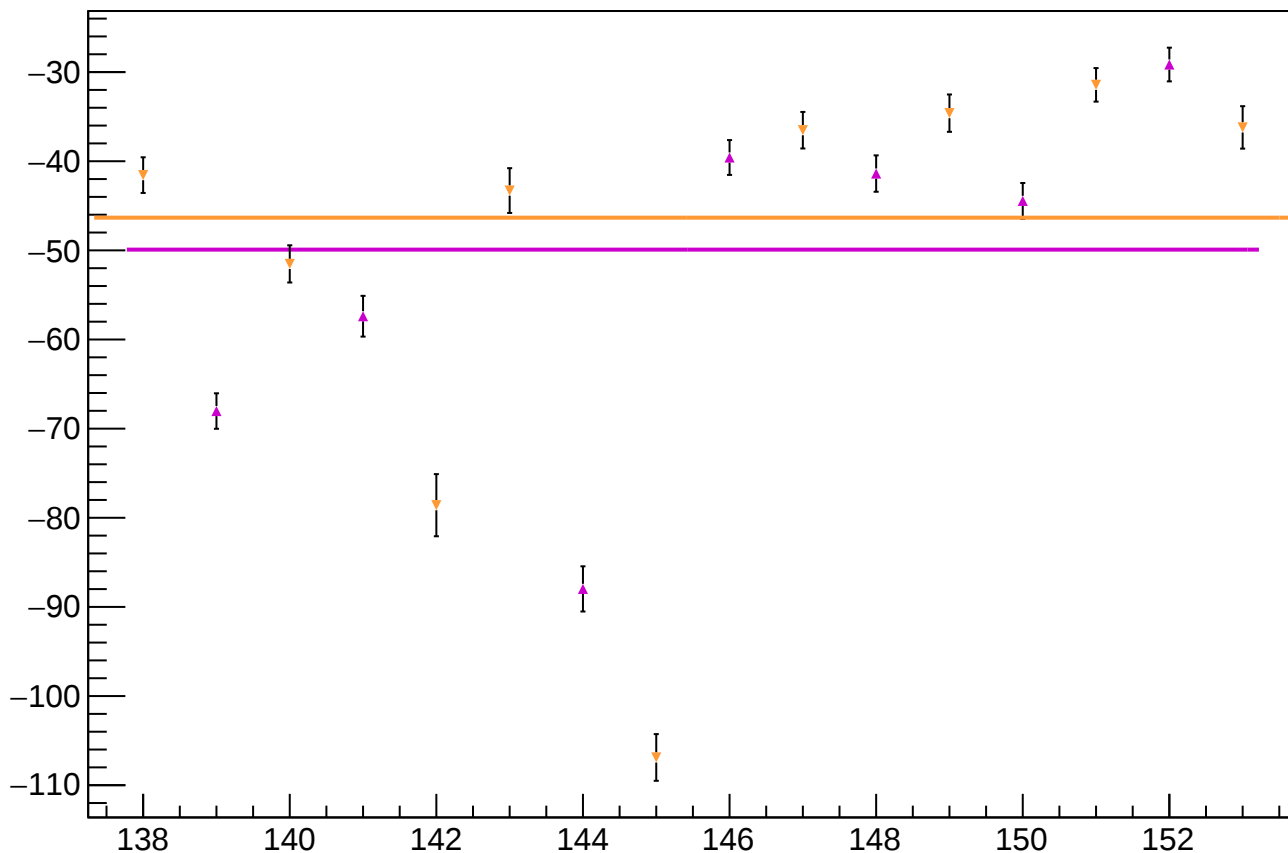
Left In: 122.419 $\pm$ 0.068  $\chi^2$ /NDF: 2159.3/6

+ sign 117.998 $\pm$ 0.051  $\chi^2$ /NDF: 95729.4/25

All: 116.006 $\pm$ 0.036  $\chi^2$ /NDF: 189936.4/51

- sign 113.957 $\pm$ 0.052  $\chi^2$ /NDF: 91129.7/25

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -46.332+/-0.747  $\chi^2/\text{NDF}$ : 768.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

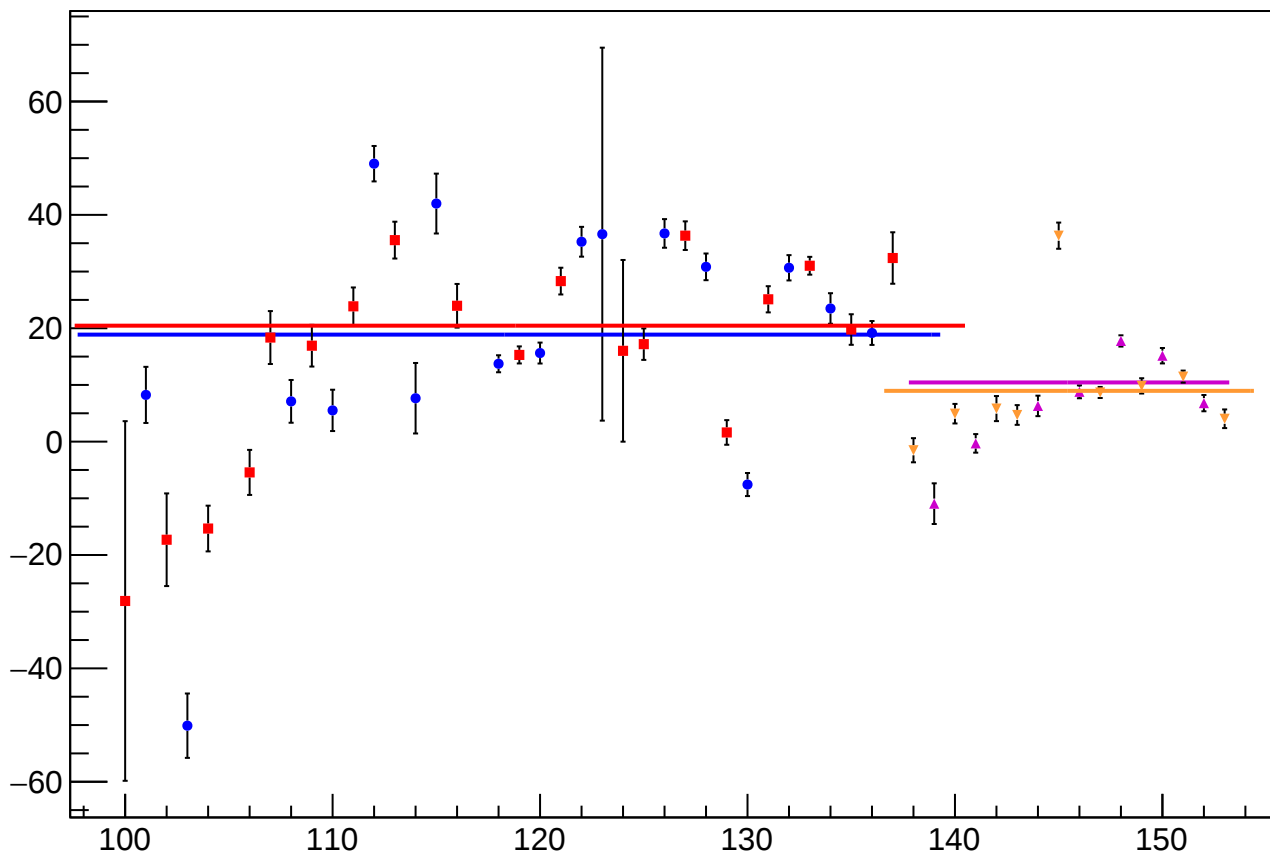
Left In: -49.916+/-0.784  $\chi^2/\text{NDF}$ : 492.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -48.039+/-0.541  $\chi^2/\text{NDF}$ : 1271.9/15

- 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  $\chi^2$ /NDF: 620.5/16

Left Out: 8.956 $\pm$ 0.492  $\chi^2$ /NDF: 193.0/8

Right Out: 20.454 $\pm$ 0.643  $\chi^2$ /NDF: 364.8/18

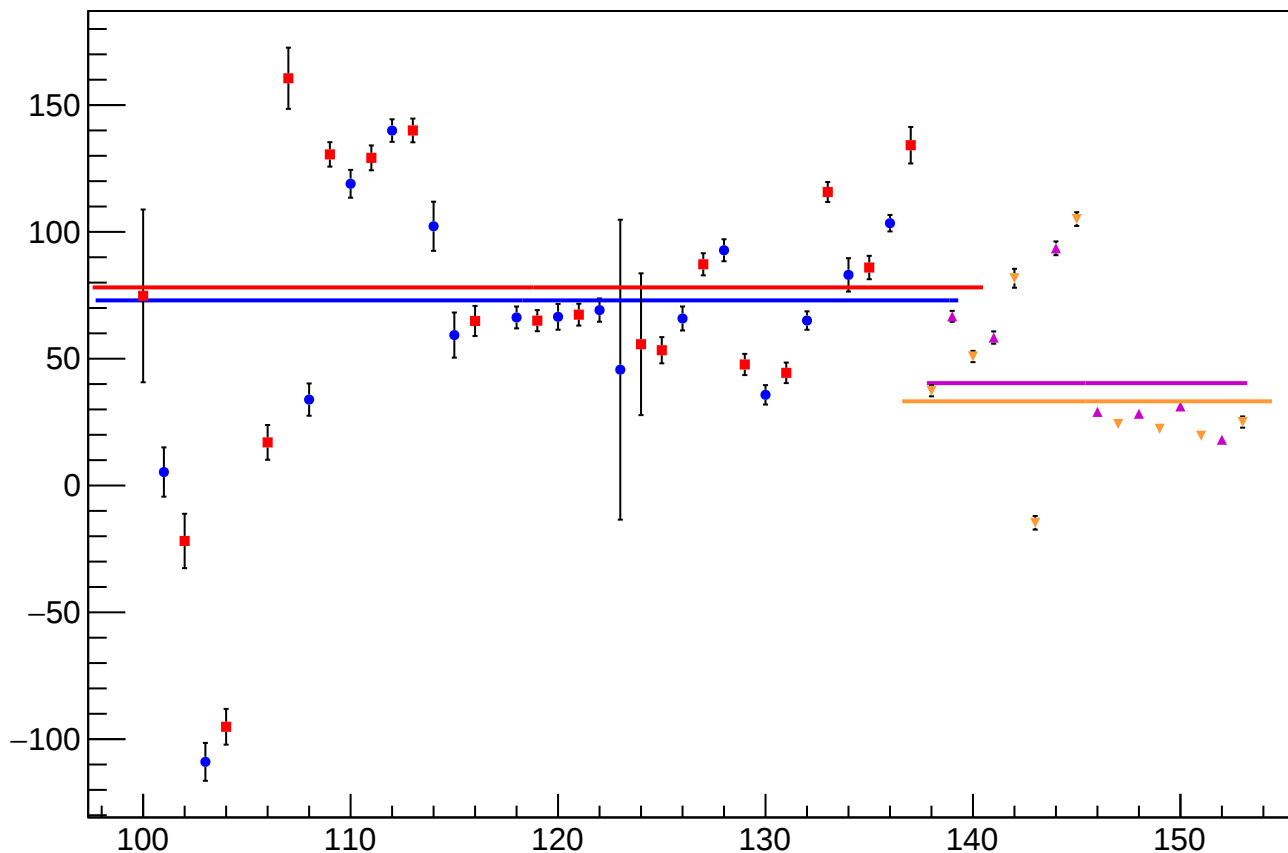
Left In: 10.439 $\pm$ 0.529  $\chi^2$ /NDF: 158.9/6

+ sign 12.606 $\pm$ 0.391  $\chi^2$ /NDF: 963.3/25

All: 13.502 $\pm$ 0.283  $\chi^2$ /NDF: 1642.4/51

- sign 14.481 $\pm$ 0.409  $\chi^2$ /NDF: 668.1/25

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $72.992 \pm 1.230$   $\chi^2/\text{NDF}: 1205.5/16$

Left Out:  $33.196 \pm 0.744$   $\chi^2/\text{NDF}: 1384.6/8$

Right Out:  $78.114 \pm 1.223$   $\chi^2/\text{NDF}: 1546.8/18$

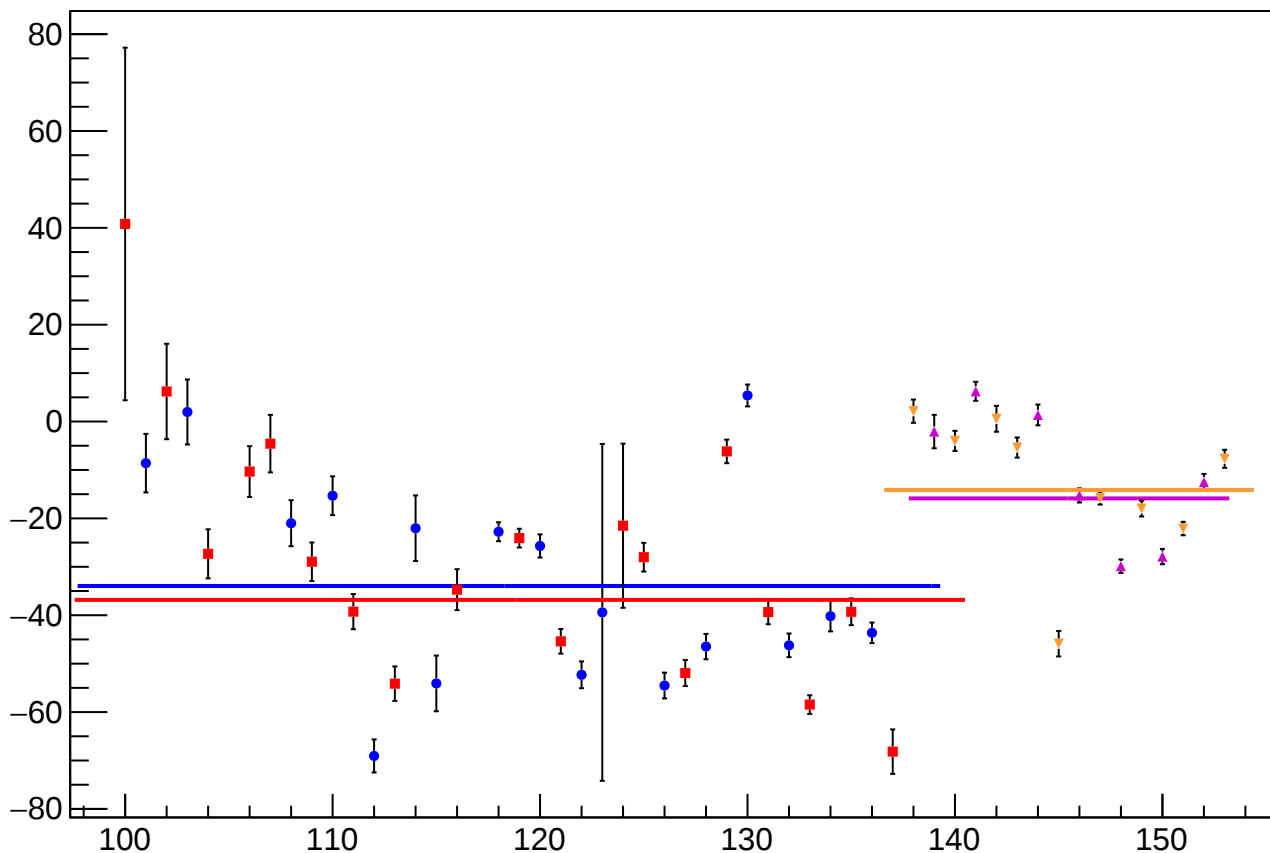
Left In:  $40.371 \pm 0.774$   $\chi^2/\text{NDF}: 840.8/6$

+ sign  $43.847 \pm 0.636$   $\chi^2/\text{NDF}: 3356.7/25$

All:  $47.407 \pm 0.456$   $\chi^2/\text{NDF}: 6488.5/51$

- sign  $51.169 \pm 0.654$   $\chi^2/\text{NDF}: 3067.4/25$

# 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:  $-14.129 \pm 0.613$   $\chi^2/\text{NDF}$ : 315.6/8

Right Out:  $-36.824 \pm 0.737$   $\chi^2/\text{NDF}$ : 539.9/18

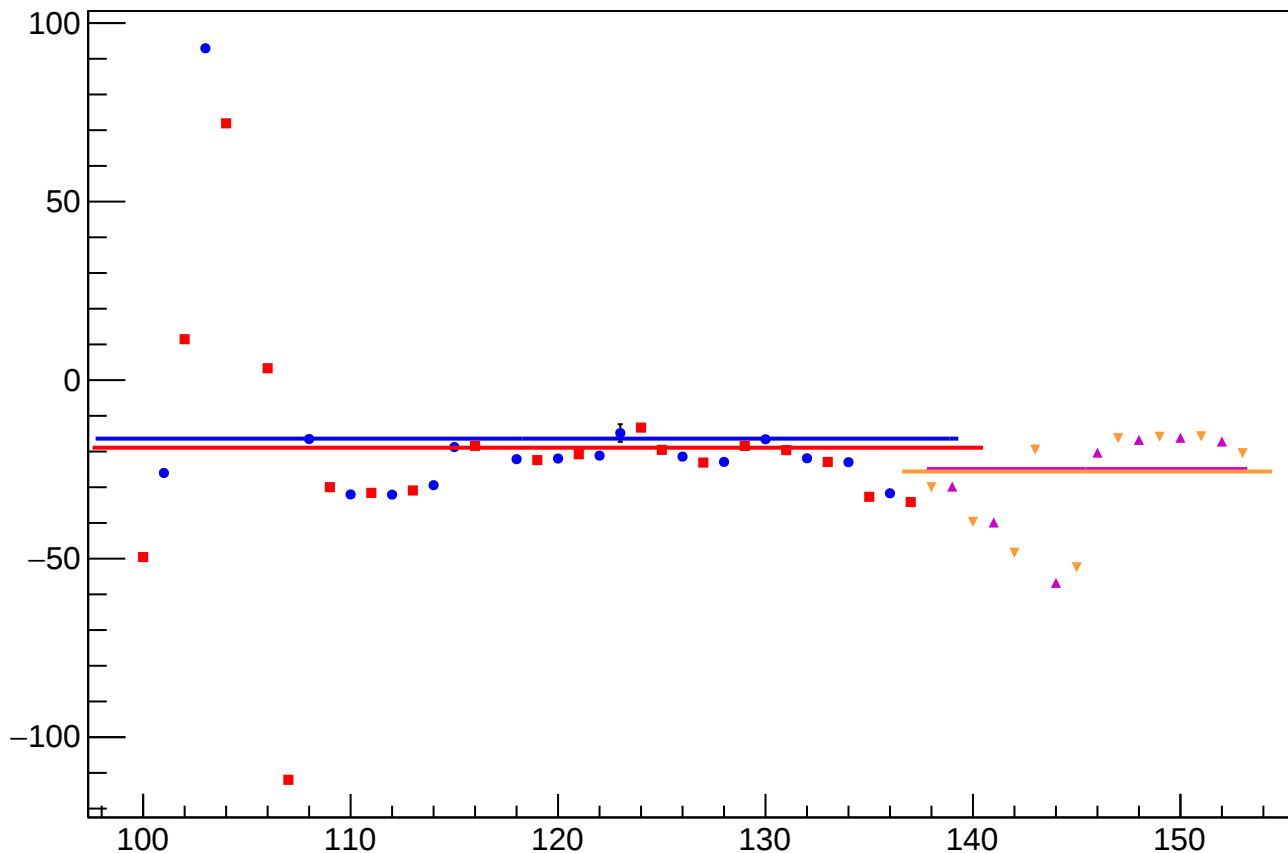
Left In:  $-15.874 \pm 0.659$   $\chi^2/\text{NDF}$ : 371.1/6

+ sign  $-22.227 \pm 0.471$   $\chi^2/\text{NDF}$ : 1465.5/25

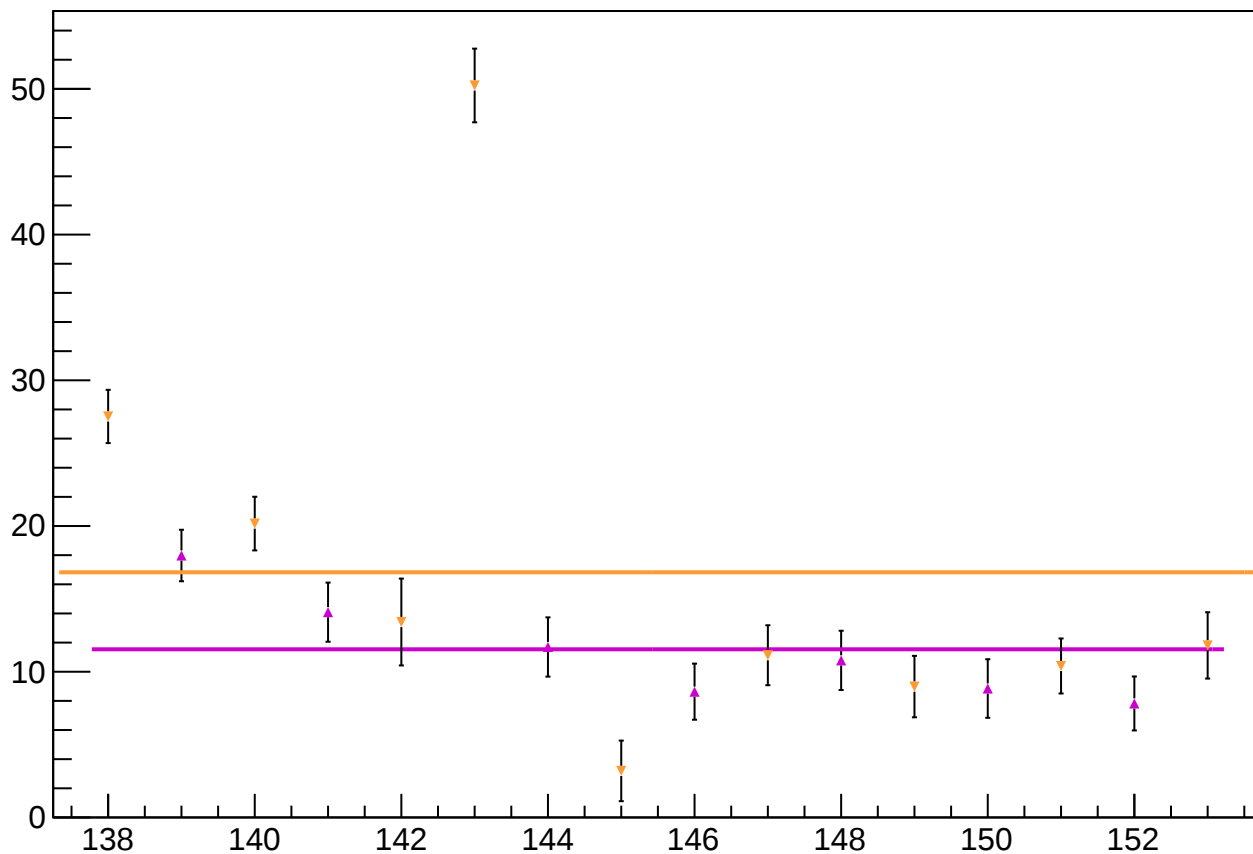
All:  $-23.647 \pm 0.340$   $\chi^2/\text{NDF}$ : 2844.4/51

- sign  $-25.190 \pm 0.491$   $\chi^2/\text{NDF}$ : 1360.0/25

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 16.824+/-0.702  $\chi^2/\text{NDF}$ : 294.5/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

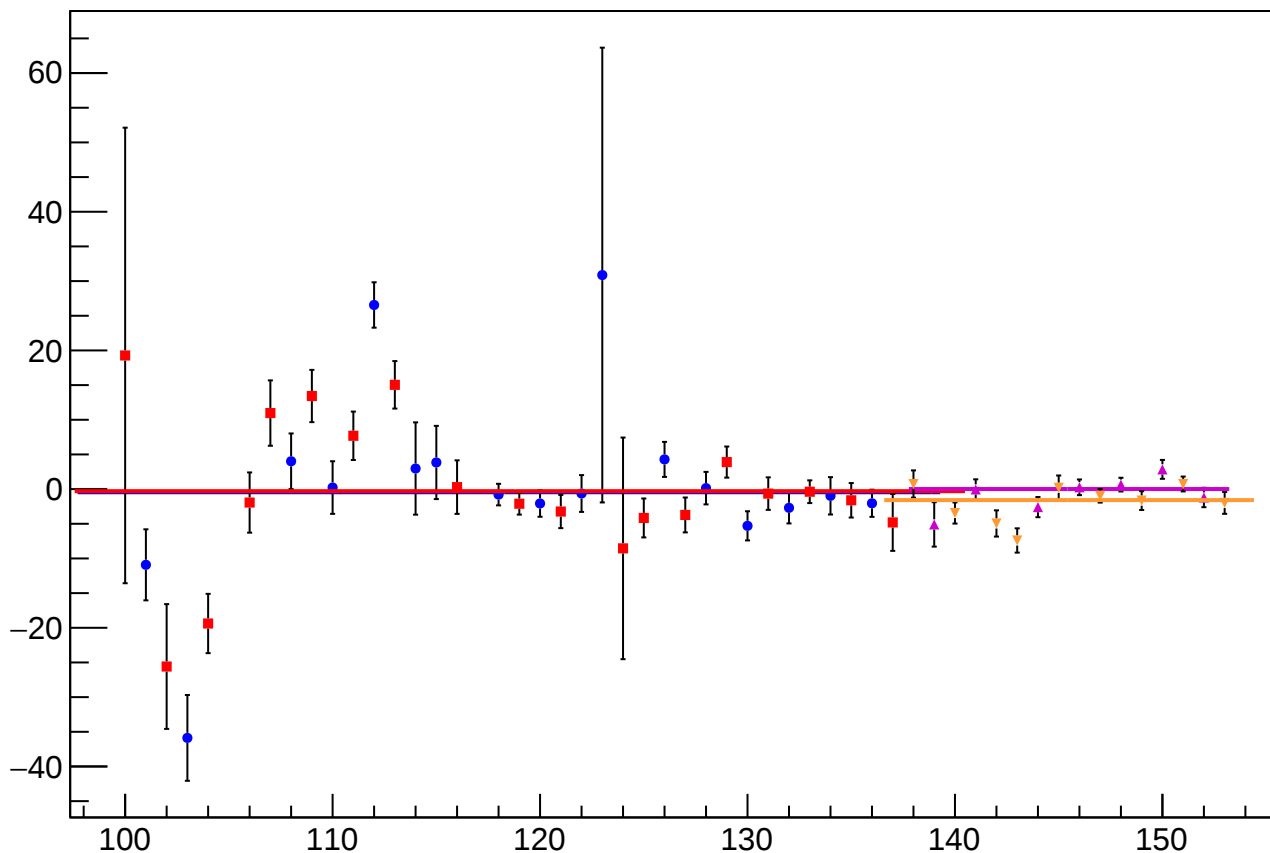
Left In: 11.540+/-0.734  $\chi^2/\text{NDF}$ : 23.1/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.301+/-0.507  $\chi^2/\text{NDF}$ : 344.7/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.452 \pm 0.654$   $\chi^2/\text{NDF}$ : 119.5/16

Left Out:  $-1.586 \pm 0.473$   $\chi^2/\text{NDF}$ : 23.3/8

Right Out:  $-0.297 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.5/18

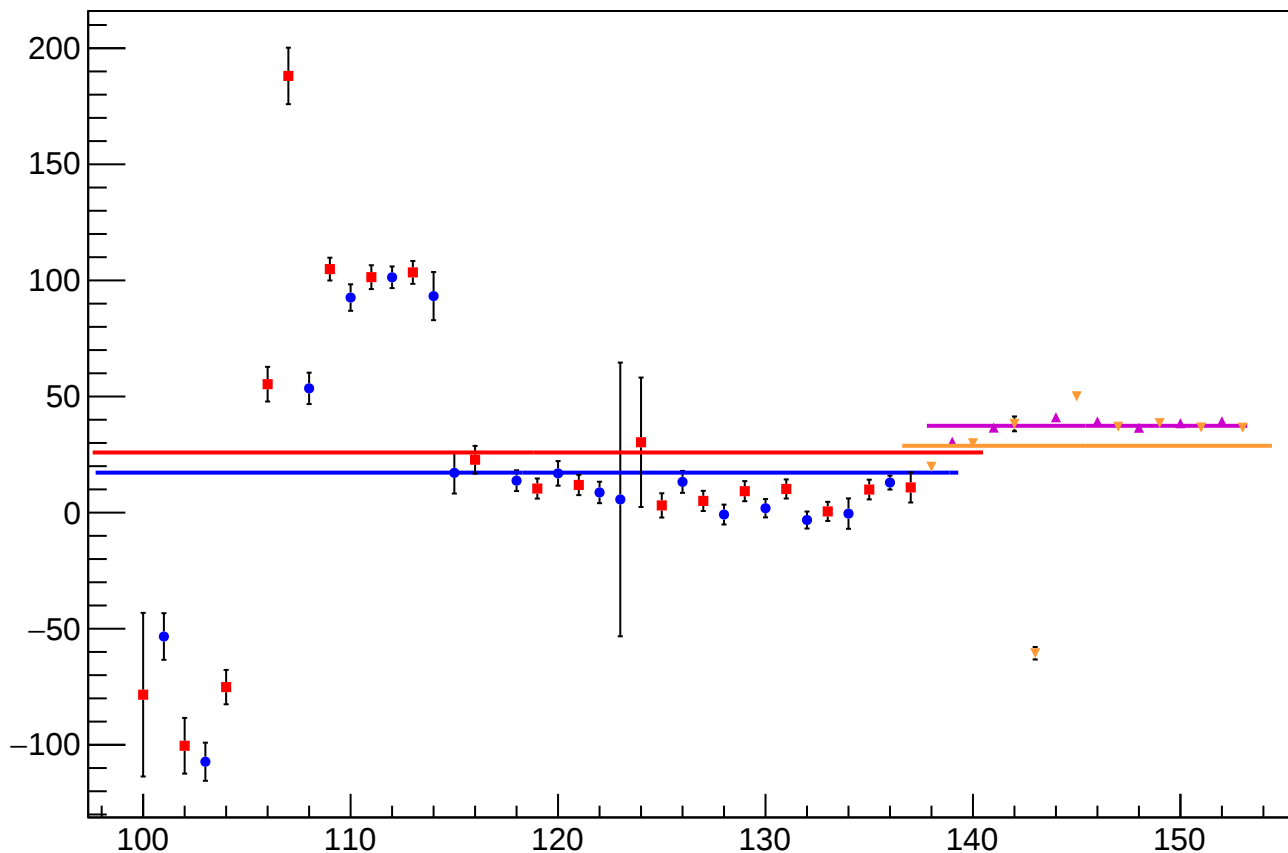
Left In:  $0.012 \pm 0.507$   $\chi^2/\text{NDF}$ : 11.3/6

+ sign  $-1.197 \pm 0.383$   $\chi^2/\text{NDF}$ : 144.8/25

All:  $-0.676 \pm 0.277$   $\chi^2/\text{NDF}$ : 244.6/51

- sign  $-0.103 \pm 0.401$   $\chi^2/\text{NDF}$ : 95.9/25

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.218 $\pm$ 1.241  $\chi^2$ /NDF: 940.1/16

Left Out: 28.780 $\pm$ 0.704  $\chi^2$ /NDF:1298.6/8

Right Out: 25.902 $\pm$ 1.243  $\chi^2$ /NDF: 1374.8/18

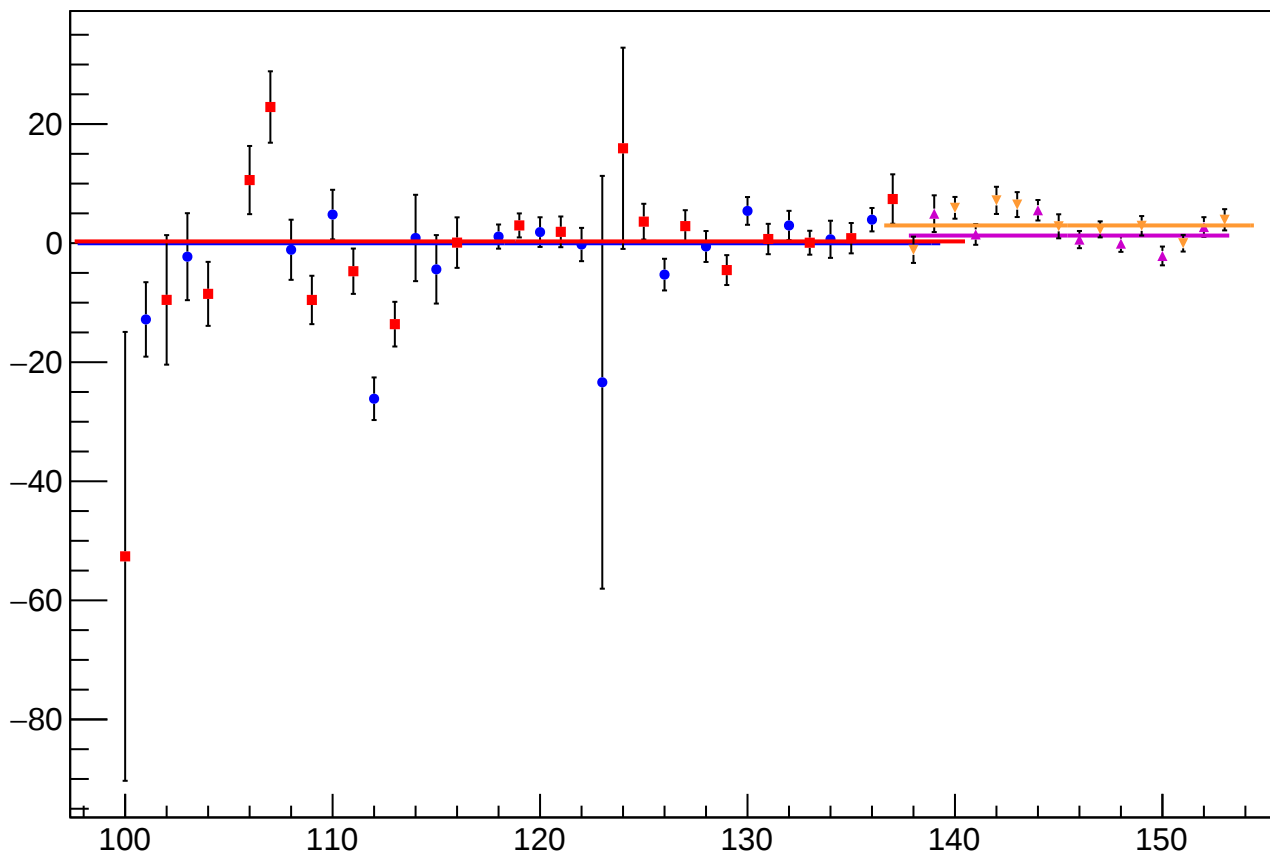
Left In: 37.387 $\pm$ 0.731  $\chi^2$ /NDF:18.7/6

+ sign 25.967 $\pm$ 0.612  $\chi^2$ /NDF: 2304.4/25

All: 30.078 $\pm$ 0.439  $\chi^2$ /NDF: 3854.3/51

- sign 34.436 $\pm$ 0.630  $\chi^2$ /NDF: 1456.9/25

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.022 \pm 0.745$   $\chi^2/\text{NDF}$ : 75.8/16

Left Out:  $2.972 \pm 0.585$   $\chi^2/\text{NDF}$ : 17.4/8

Right Out:  $0.290 \pm 0.749$   $\chi^2/\text{NDF}$ : 56.1/18

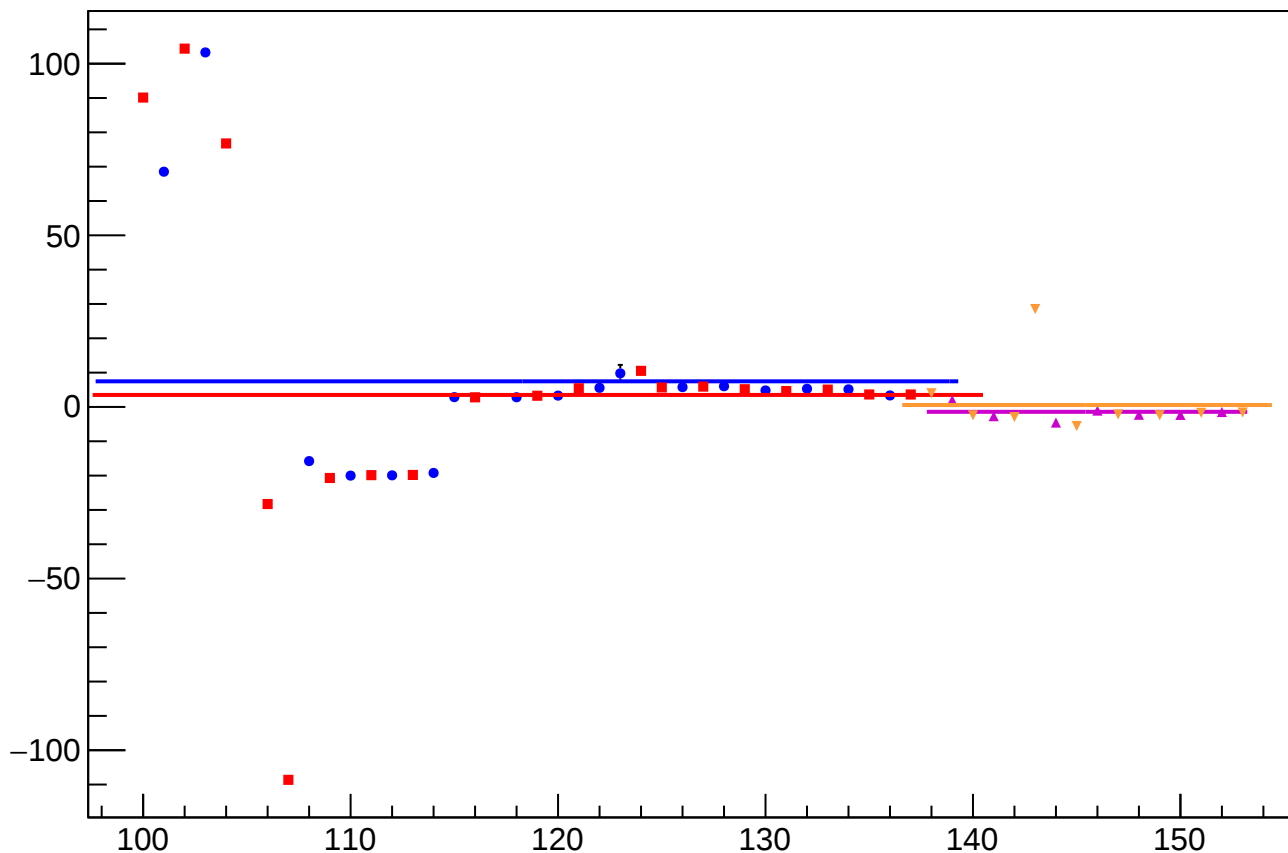
Left In:  $1.272 \pm 0.628$   $\chi^2/\text{NDF}$ : 14.2/6

+ sign  $1.830 \pm 0.460$   $\chi^2/\text{NDF}$ : 103.2/25

All:  $1.370 \pm 0.333$   $\chi^2/\text{NDF}$ : 176.5/51

- sign  $0.868 \pm 0.481$   $\chi^2/\text{NDF}$ : 71.2/25

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $7.467 \pm 0.044$   $\chi^2/\text{NDF}: 355890.1/16$

Left Out:  $0.564 \pm 0.029$   $\chi^2/\text{NDF}: 79614.7/8$

Right Out:  $3.500 \pm 0.046$   $\chi^2/\text{NDF}: 510577.2/18$

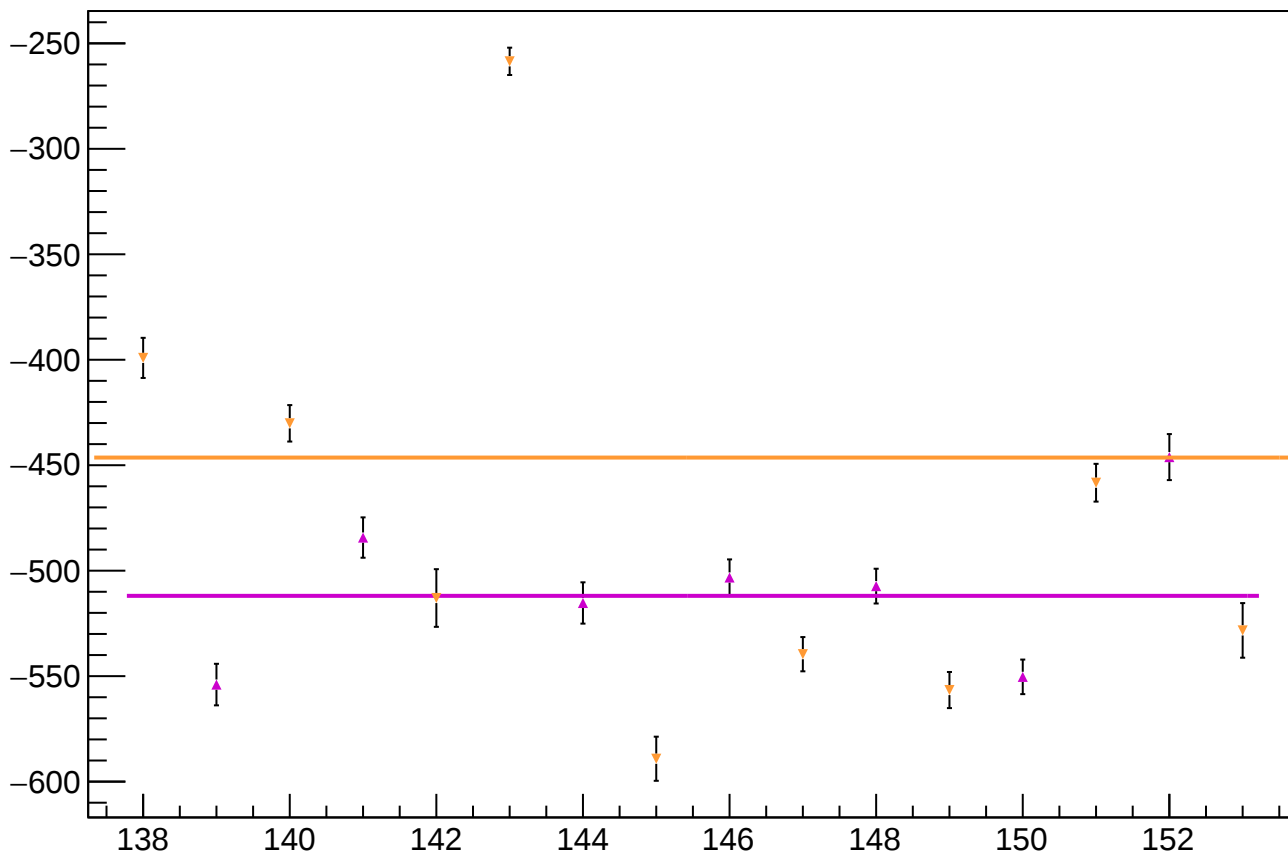
Left In:  $-1.419 \pm 0.030$   $\chi^2/\text{NDF}: 4132.6/6$

+ sign  $2.623 \pm 0.024$   $\chi^2/\text{NDF}: 452413.7/25$

All:  $1.393 \pm 0.017$   $\chi^2/\text{NDF}: 980542.5/51$

- sign  $0.077 \pm 0.025$   $\chi^2/\text{NDF}: 522820.6/25$

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -446.373+/-3.015  $\chi^2/\text{NDF}$ : 1418.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

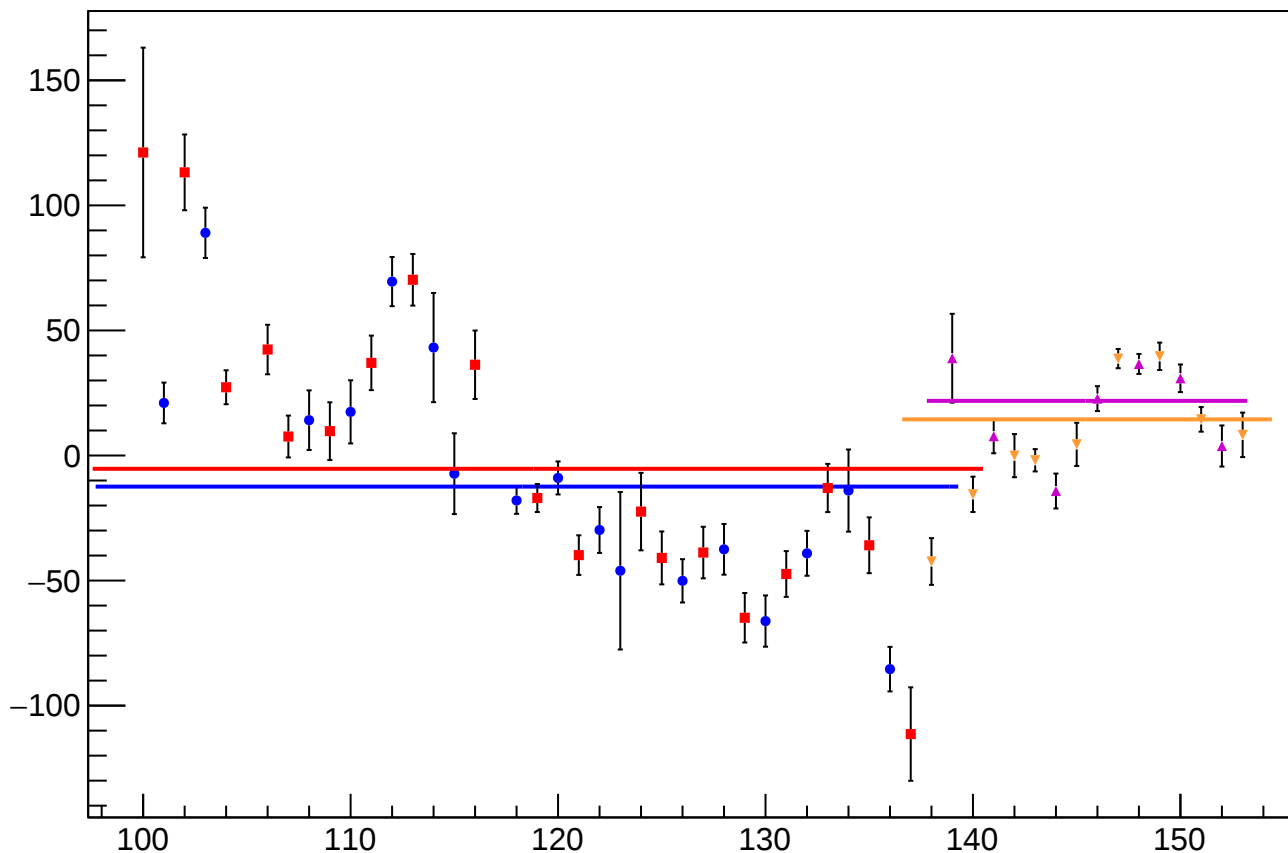
Left In: -511.928+/-3.465  $\chi^2/\text{NDF}$ : 86.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -474.616+/-2.274  $\chi^2/\text{NDF}$ : 1709.0/15

- 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:  $14.457 \pm 1.948$   $\chi^2/\text{NDF}$ : 134.2/8

Right Out:  $-5.317 \pm 2.260$   $\chi^2/\text{NDF}$ : 342.8/18

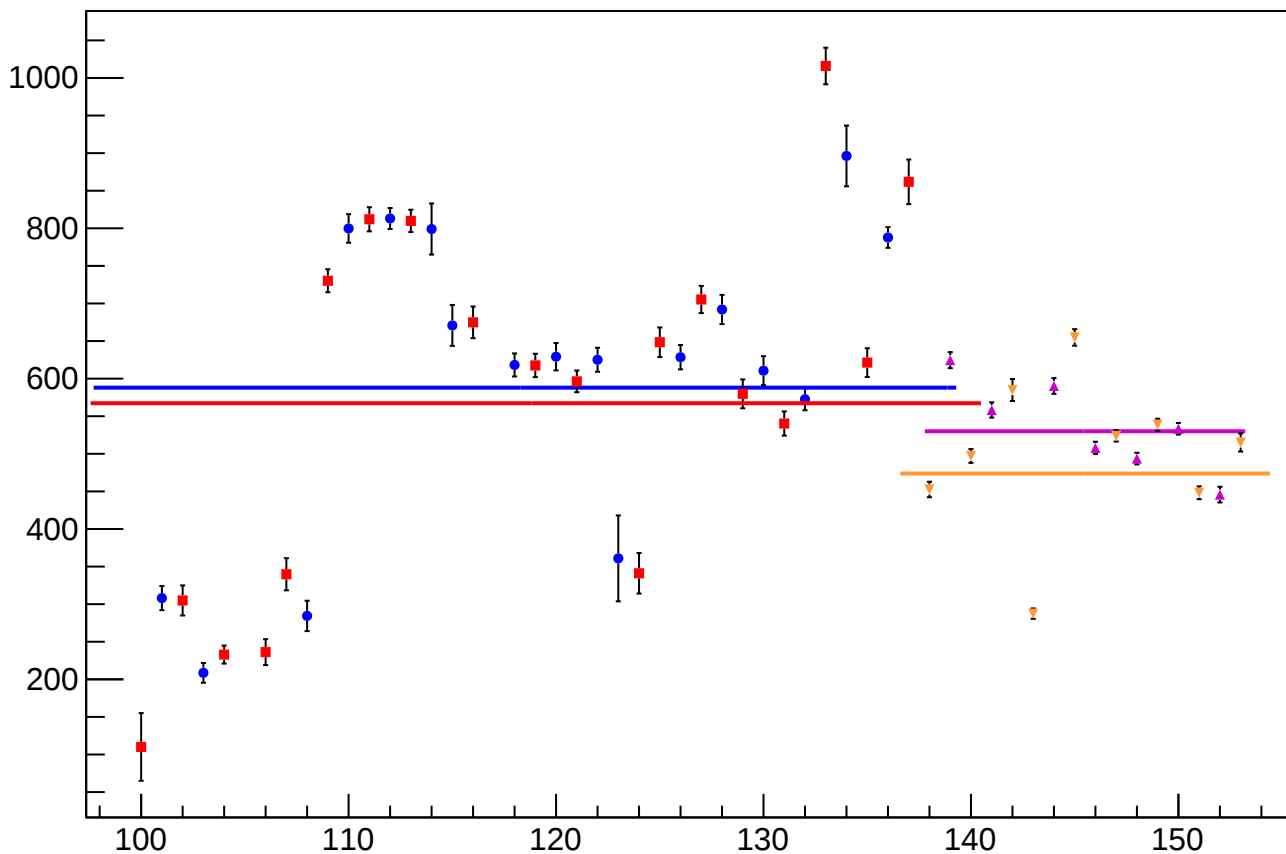
Left In:  $21.849 \pm 2.259$   $\chi^2/\text{NDF}$ : 53.1/6

+ sign  $3.308 \pm 1.491$   $\chi^2/\text{NDF}$ : 553.4/25

All:  $5.619 \pm 1.090$   $\chi^2/\text{NDF}$ : 1026.8/51

- sign  $8.273 \pm 1.597$   $\chi^2/\text{NDF}$ : 468.3/25

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 588.034 $\pm$ 4.329  $\chi^2/\text{NDF}$ : 2127.7/16

Left Out: 473.758 $\pm$ 3.032  $\chi^2/\text{NDF}$ : 1196.1/8

Right Out: 567.313 $\pm$ 4.133  $\chi^2/\text{NDF}$ : 2784.3/18

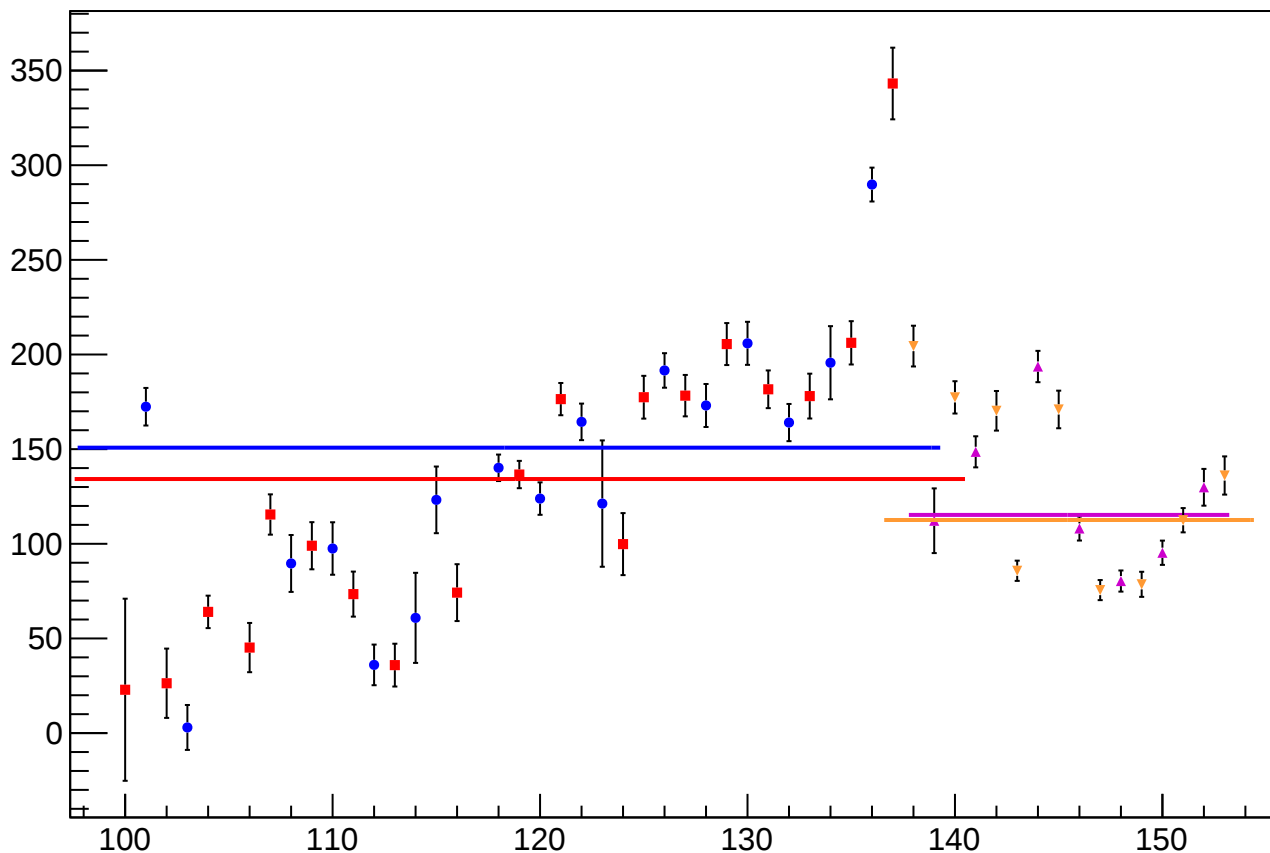
Left In: 529.998 $\pm$ 3.421  $\chi^2/\text{NDF}$ : 214.2/6

+ sign 511.368 $\pm$ 2.483  $\chi^2/\text{NDF}$ : 3791.4/25

All: 527.266 $\pm$ 1.807  $\chi^2/\text{NDF}$ : 6925.5/51

- sign 545.170 $\pm$ 2.635  $\chi^2/\text{NDF}$ : 3046.9/25

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 150.785 $\pm$ 2.679  $\chi^2$ /NDF: 633.1/16

Left Out: 112.576 $\pm$ 2.432  $\chi^2$ /NDF:301.0/8

Right Out: 134.219 $\pm$ 2.615  $\chi^2$ /NDF: 581.6/18

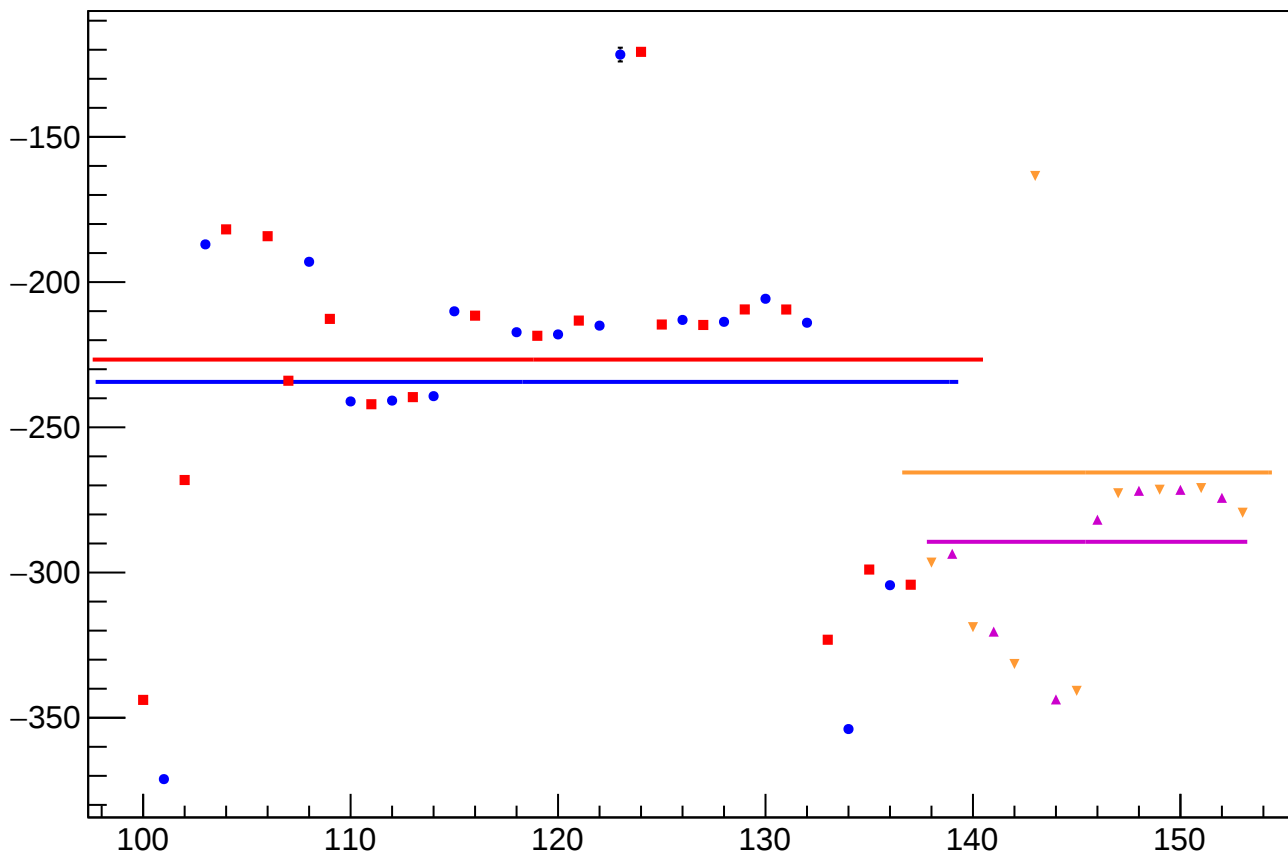
Left In: 115.263 $\pm$ 2.834  $\chi^2$ /NDF:158.7/6

+ sign 129.836 $\pm$ 1.801  $\chi^2$ /NDF: 1045.6/25

All: 127.808 $\pm$ 1.314  $\chi^2$ /NDF: 1812.8/51

- sign 125.499 $\pm$ 1.922  $\chi^2$ /NDF: 764.4/25

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -234.360+/-0.148  $\chi^2/\text{NDF}$ : 145159.1/16

Left Out: -265.547+/-0.127  $\chi^2/\text{NDF}$ : 202348.9/8

Right Out: -226.674+/-0.141  $\chi^2/\text{NDF}$ : 99490.5/18

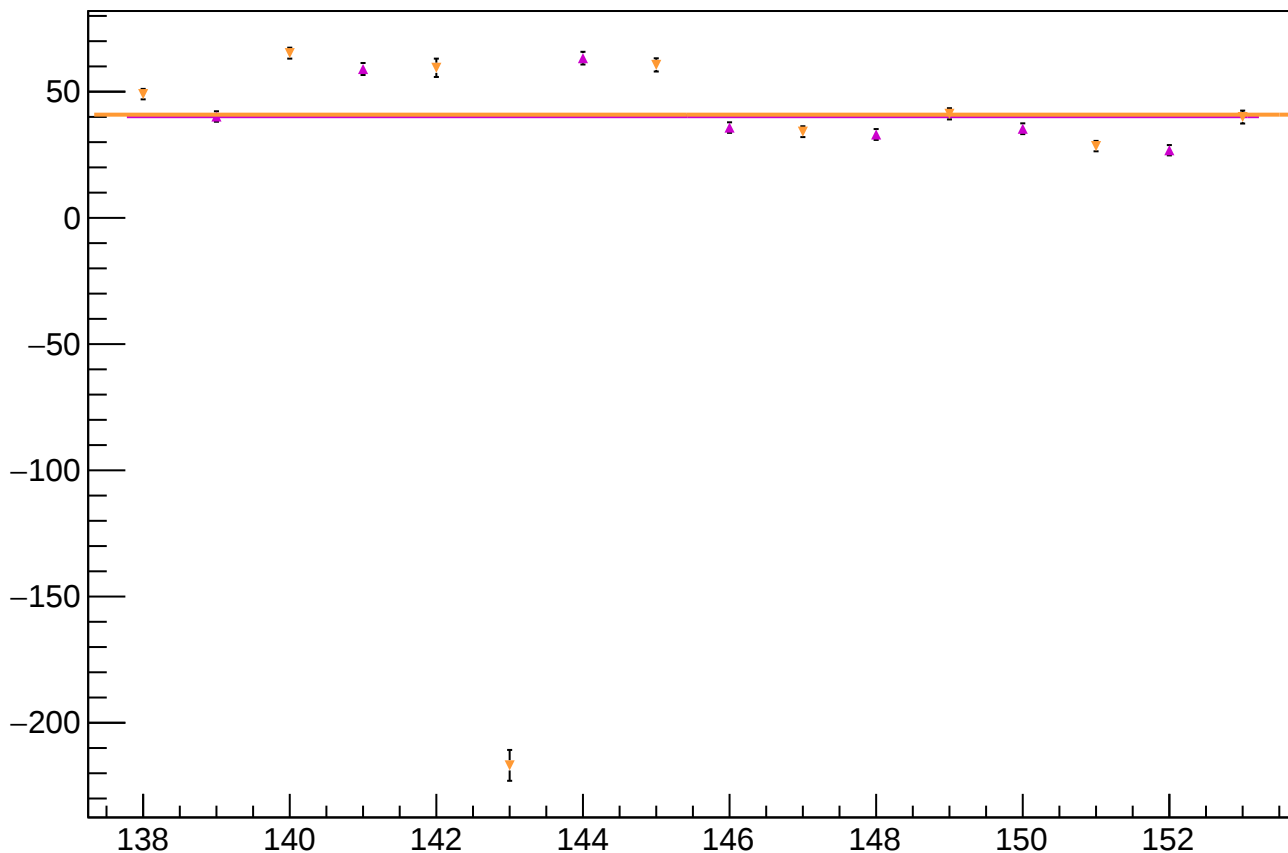
Left In: -289.418+/-0.143  $\chi^2/\text{NDF}$ : 27350.5/6

+ sign -252.373+/-0.097  $\chi^2/\text{NDF}$ : 372989.3/25

All: -254.923+/-0.070  $\chi^2/\text{NDF}$ : 598805.6/51

- sign -257.687+/-0.100  $\chi^2/\text{NDF}$ : 224360.8/25

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.892+/-0.816  $\chi^2/\text{NDF}$ :2049.7/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

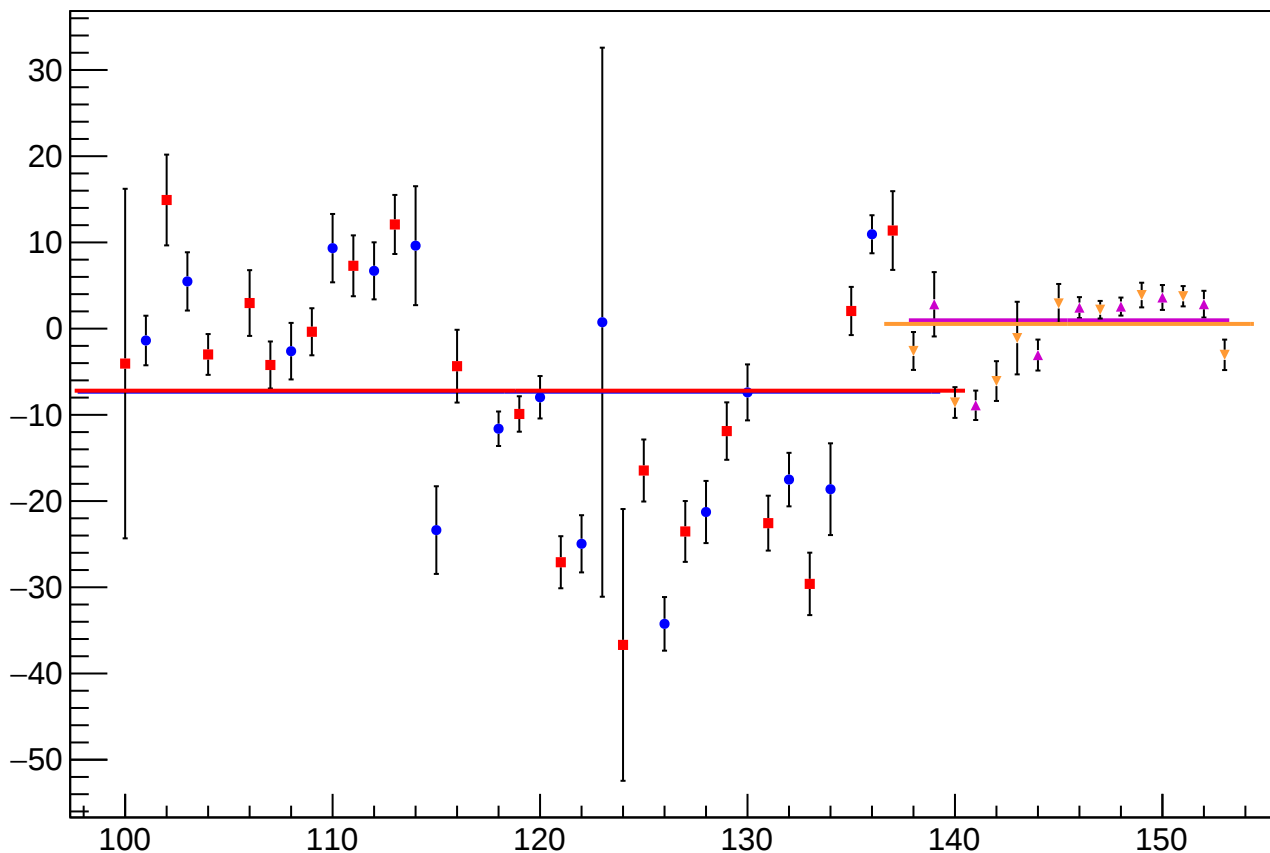
Left In: 40.281+/-0.824  $\chi^2/\text{NDF}$ :210.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.589+/-0.580  $\chi^2/\text{NDF}$ : 2260.1/15

- 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:  $0.547 \pm 0.538$   $\chi^2/\text{NDF}$ : 57.4/8

Right Out:  $-7.198 \pm 0.761$   $\chi^2/\text{NDF}$ : 252.1/18

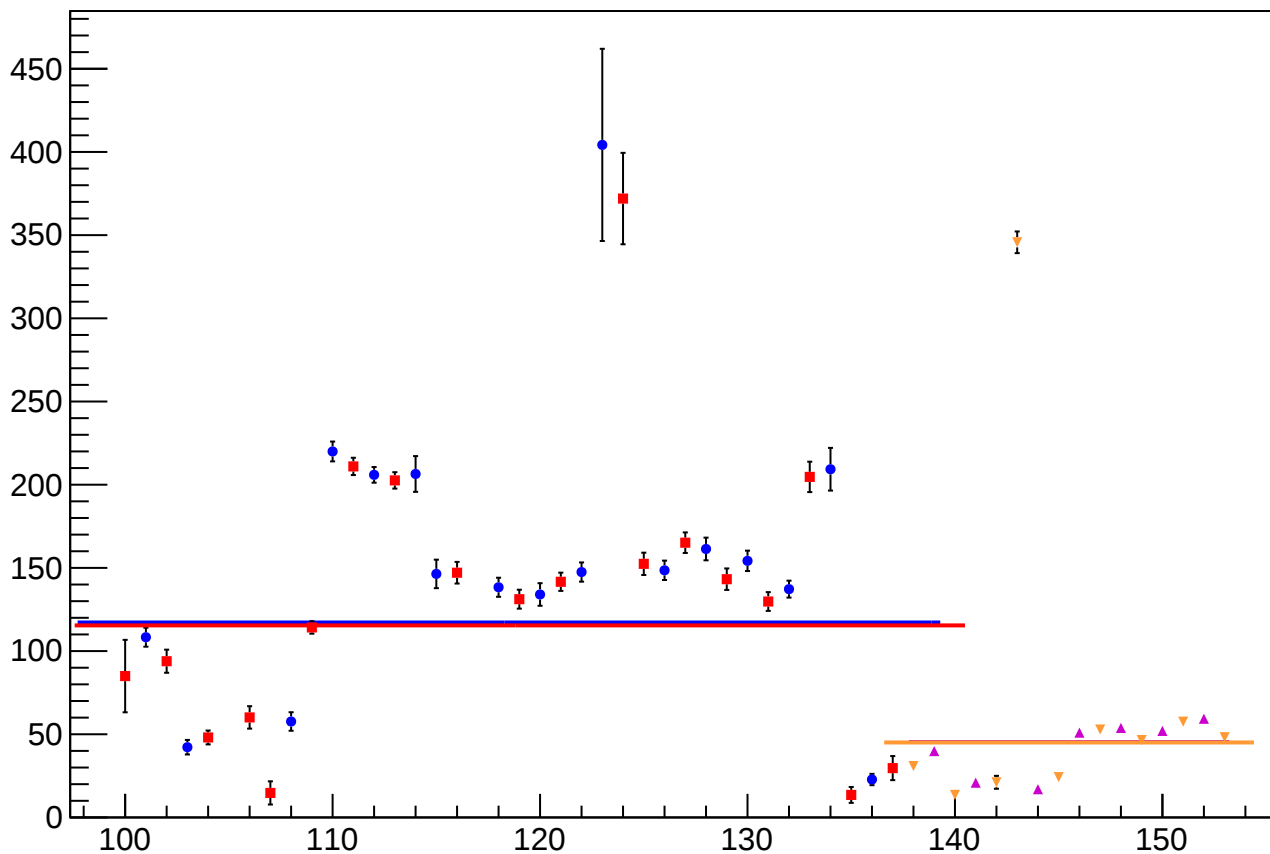
Left In:  $0.964 \pm 0.558$   $\chi^2/\text{NDF}$ : 47.3/6

+ sign  $-1.986 \pm 0.443$   $\chi^2/\text{NDF}$ : 405.2/25

All:  $-1.938 \pm 0.316$   $\chi^2/\text{NDF}$ : 779.5/51

- sign  $-1.888 \pm 0.450$   $\chi^2/\text{NDF}$ : 374.2/25

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.177+/-1.411  $\chi^2/\text{NDF}$ : 2159.6/16

Left Out: 45.073+/-0.810  $\chi^2/\text{NDF}$ :2506.7/8

Right Out: 115.437+/-1.361  $\chi^2/\text{NDF}$ : 2151.2/18

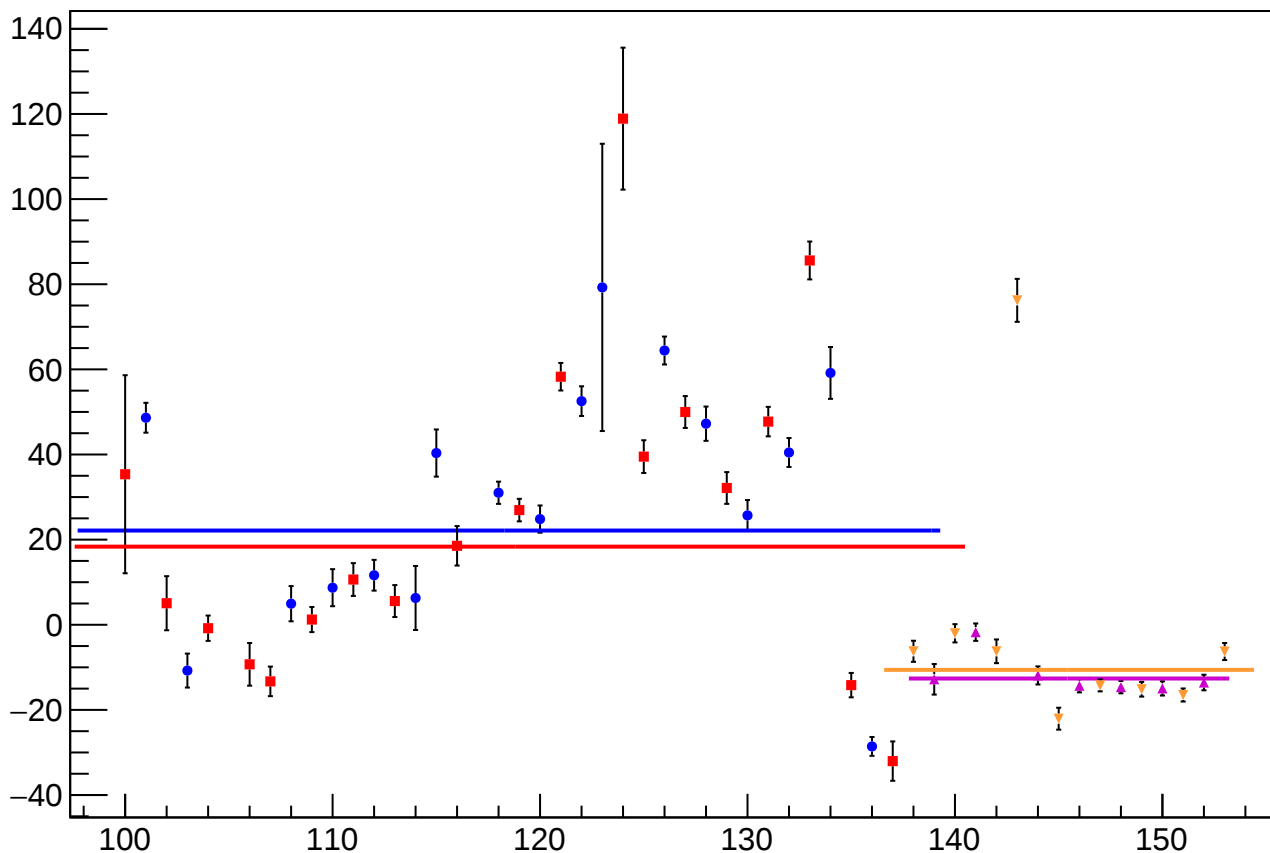
Left In: 45.334+/-0.816  $\chi^2/\text{NDF}$ :298.3/6

+ sign 62.944+/-0.703  $\chi^2/\text{NDF}$ : 6629.4/25

All: 63.411+/-0.496  $\chi^2/\text{NDF}$ : 11032.6/51

- sign 63.873+/-0.700  $\chi^2/\text{NDF}$ : 4402.3/25

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.136 $\pm$ 0.891  $\chi^2$ /NDF: 1064.1/16

Left Out: -10.596 $\pm$ 0.672  $\chi^2$ /NDF:370.5/8

Right Out: 18.355 $\pm$ 0.871  $\chi^2$ /NDF: 1070.9/18

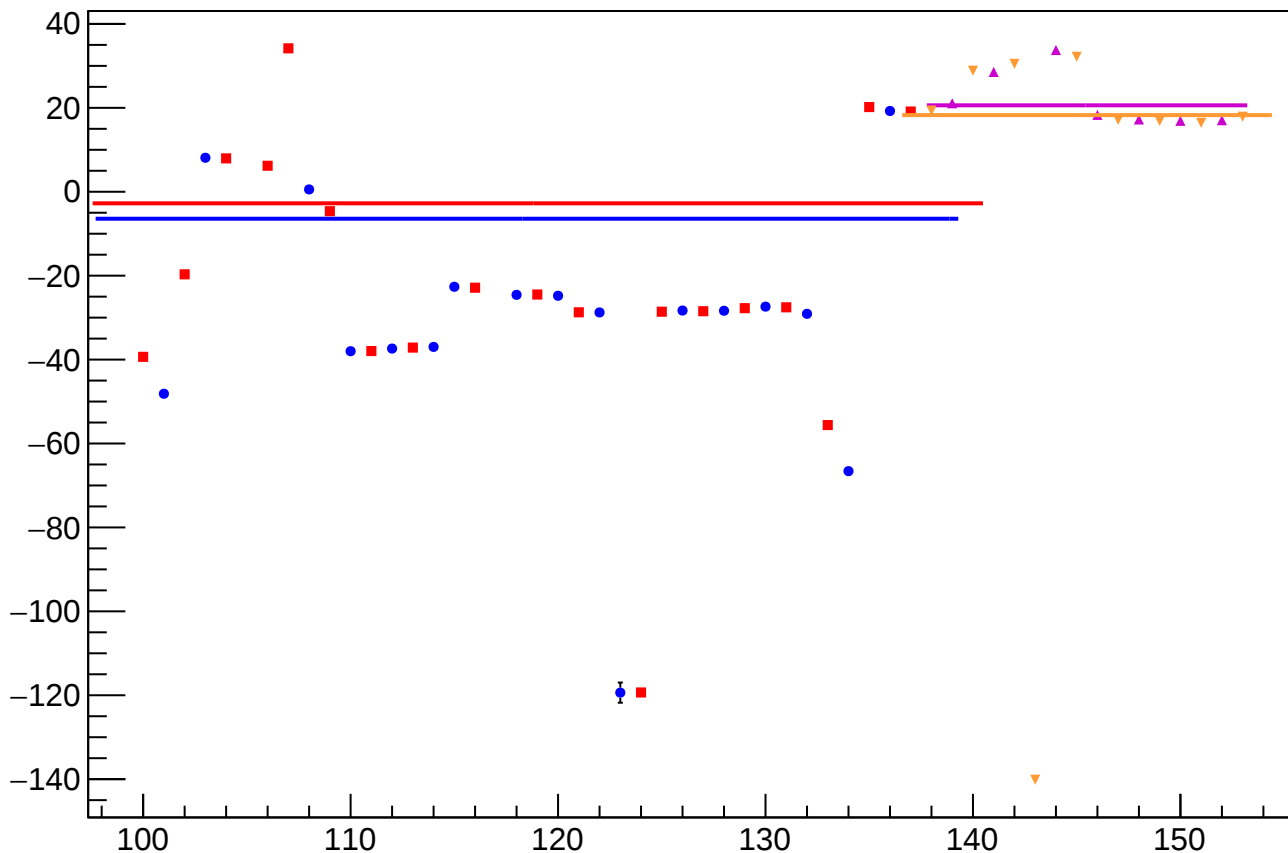
Left In: -12.628 $\pm$ 0.695  $\chi^2$ /NDF:33.7/6

+ sign 1.258 $\pm$ 0.536  $\chi^2$ /NDF: 2295.1/25

All: 0.346 $\pm$ 0.382  $\chi^2$ /NDF: 4178.6/51

- sign -0.590 $\pm$ 0.543  $\chi^2$ /NDF: 1877.6/25

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-6.428 \pm 0.046$   $\chi^2/\text{NDF}: 265170.6/16$

Left Out:  $18.266 \pm 0.034$   $\chi^2/\text{NDF}: 399600.3/8$

Right Out:  $-2.752 \pm 0.046$   $\chi^2/\text{NDF}: 266290.0/18$

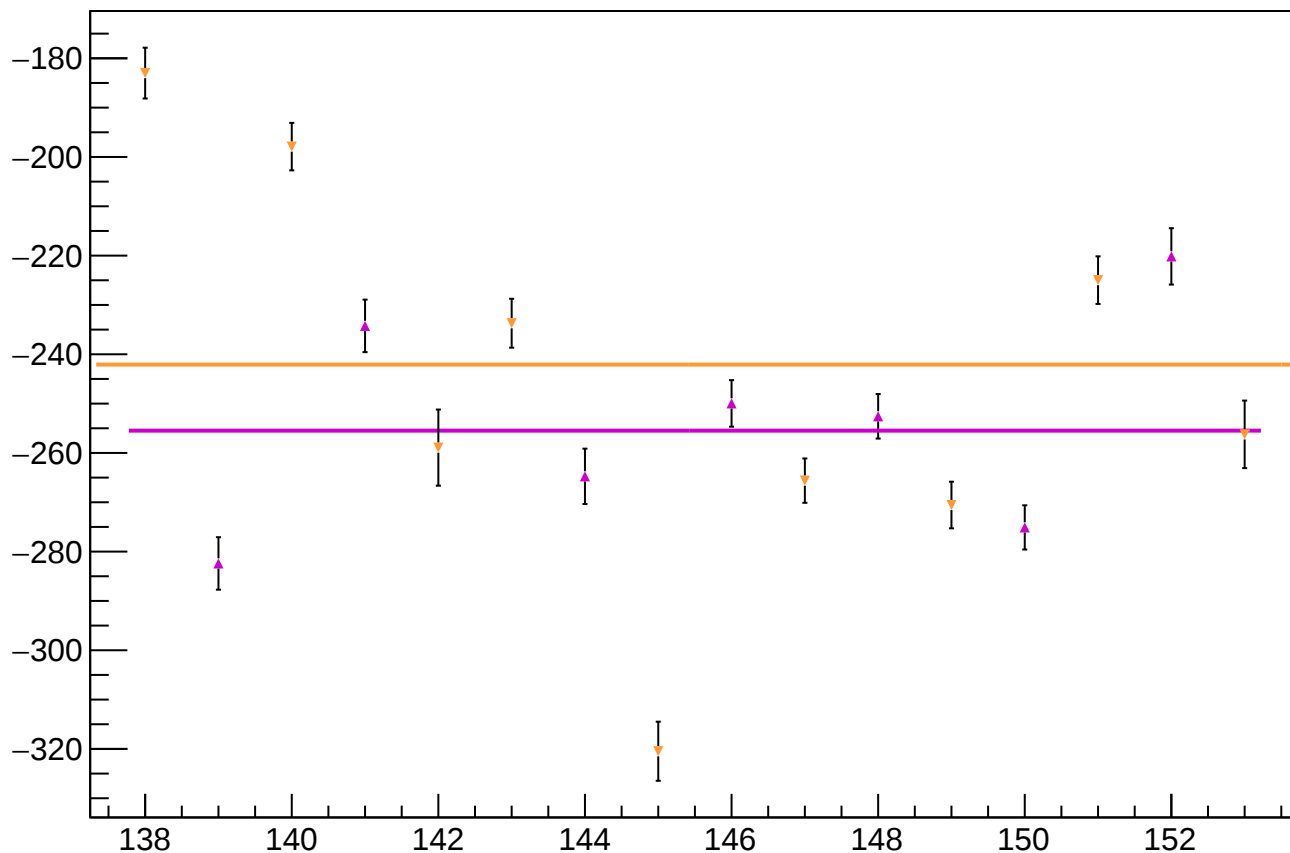
Left In:  $20.601 \pm 0.034$   $\chi^2/\text{NDF}: 24732.2/6$

+ sign  $9.719 \pm 0.027$   $\chi^2/\text{NDF}: 851482.0/25$

All:  $11.046 \pm 0.019$   $\chi^2/\text{NDF}: 1316459.1/51$

- sign  $12.367 \pm 0.027$   $\chi^2/\text{NDF}: 460226.0/25$

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -242.088+/-1.755  $\chi^2/\text{NDF}$ : 475.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

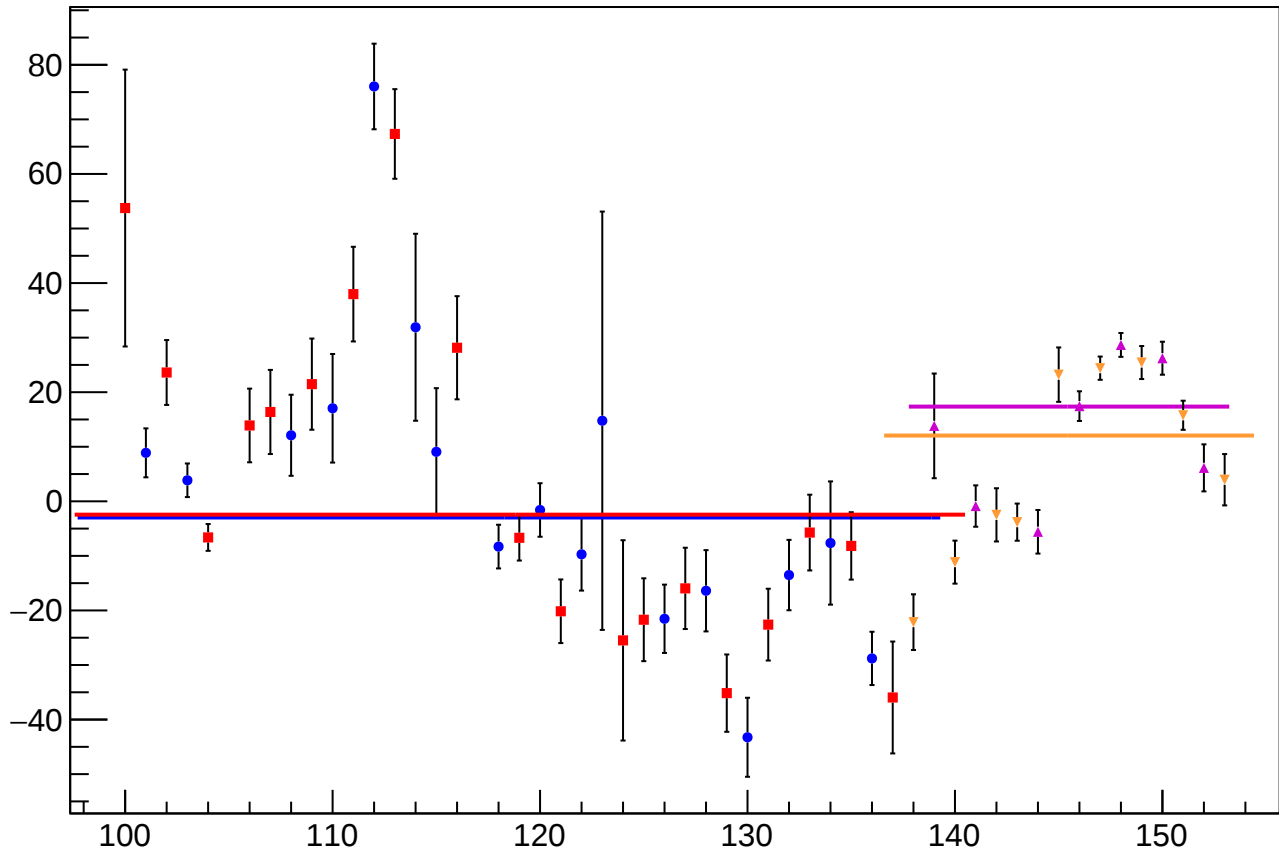
Left In: -255.477+/-1.901  $\chi^2/\text{NDF}$ : 103.4/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -248.249+/-1.289  $\chi^2/\text{NDF}$ : 605.3/15

- 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:  $12.057 \pm 1.127$   $\chi^2/\text{NDF}$ : 173.3/8

Right Out:  $-2.445 \pm 1.397$   $\chi^2/\text{NDF}$ : 215.4/18

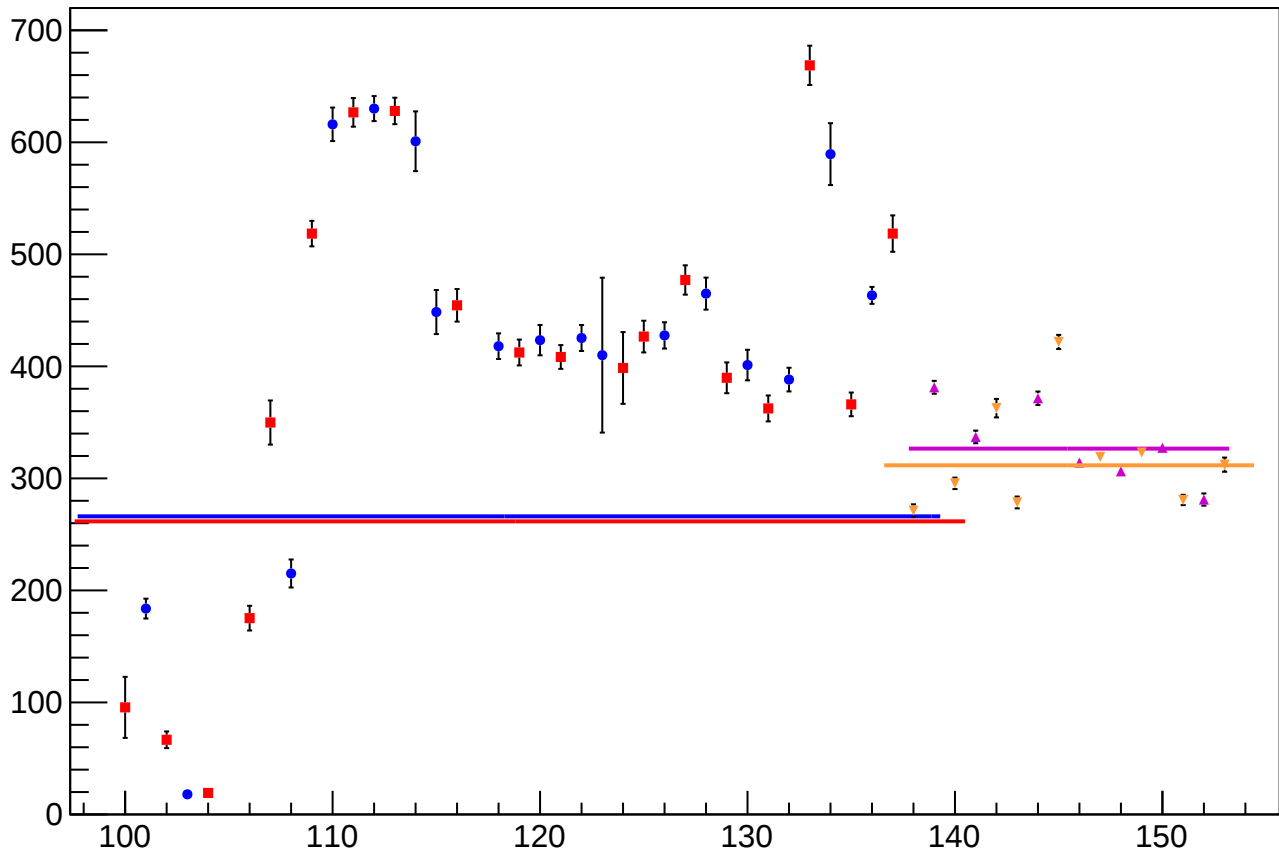
Left In:  $17.361 \pm 1.240$   $\chi^2/\text{NDF}$ : 98.3/6

+ sign  $6.409 \pm 0.891$   $\chi^2/\text{NDF}$ : 443.5/25

All:  $7.477 \pm 0.642$   $\chi^2/\text{NDF}$ : 872.7/51

- sign  $8.634 \pm 0.927$   $\chi^2/\text{NDF}$ : 426.2/25

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 311.666 $\pm$ 1.752  $\chi^2$ /NDF: 501.1/8

Right Out: 261.642 $\pm$ 2.457  $\chi^2$ /NDF: 8209.5/18

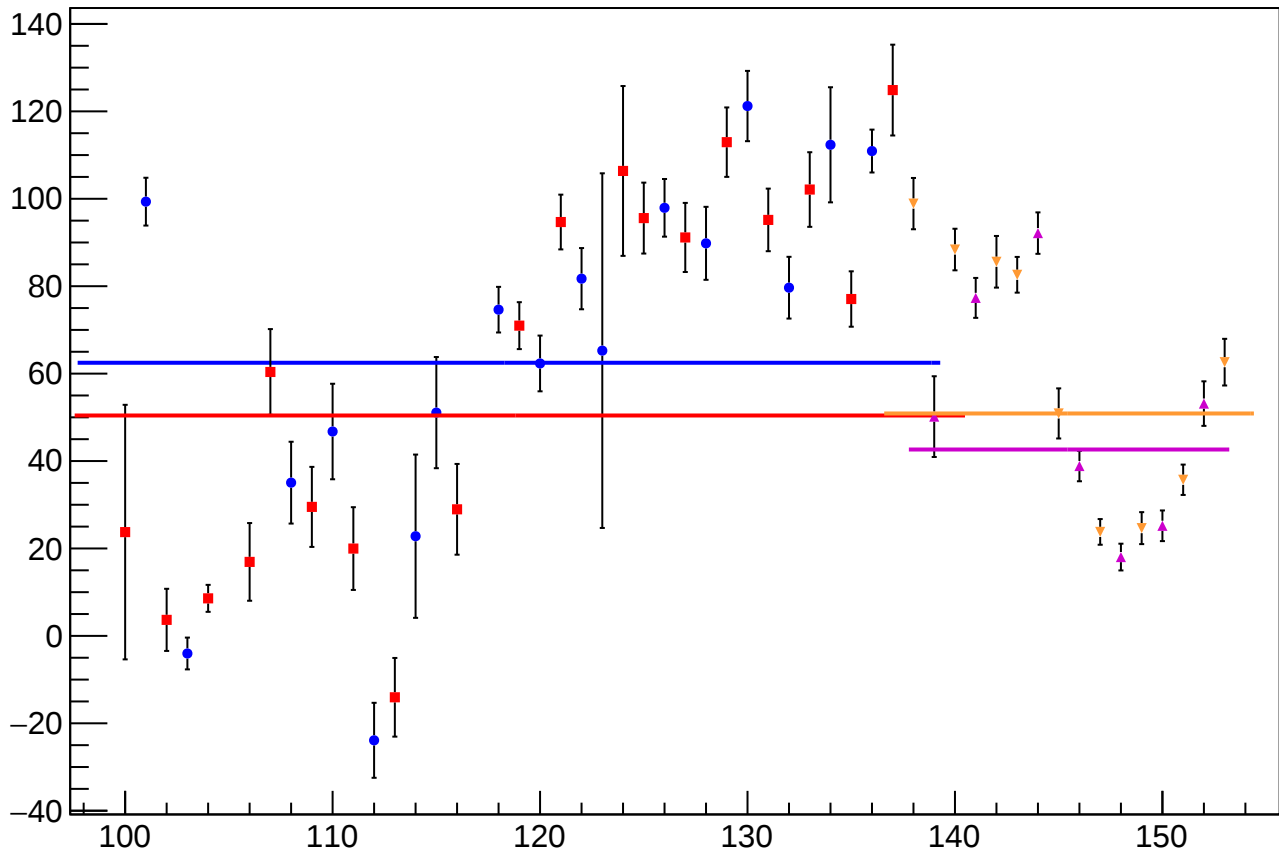
Left In: 326.572 $\pm$ 1.874  $\chi^2$ /NDF: 249.5/6

+ sign 296.506 $\pm$ 1.431  $\chi^2$ /NDF: 8370.2/25

All: 299.466 $\pm$ 1.032  $\chi^2$ /NDF: 17279.6/51

- sign 302.678 $\pm$ 1.490  $\chi^2$ /NDF: 8900.4/25

# 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:  $50.881 \pm 1.413$   $\chi^2/\text{NDF}: 384.3/8$

Right Out:  $50.421 \pm 1.642$   $\chi^2/\text{NDF}: 651.4/18$

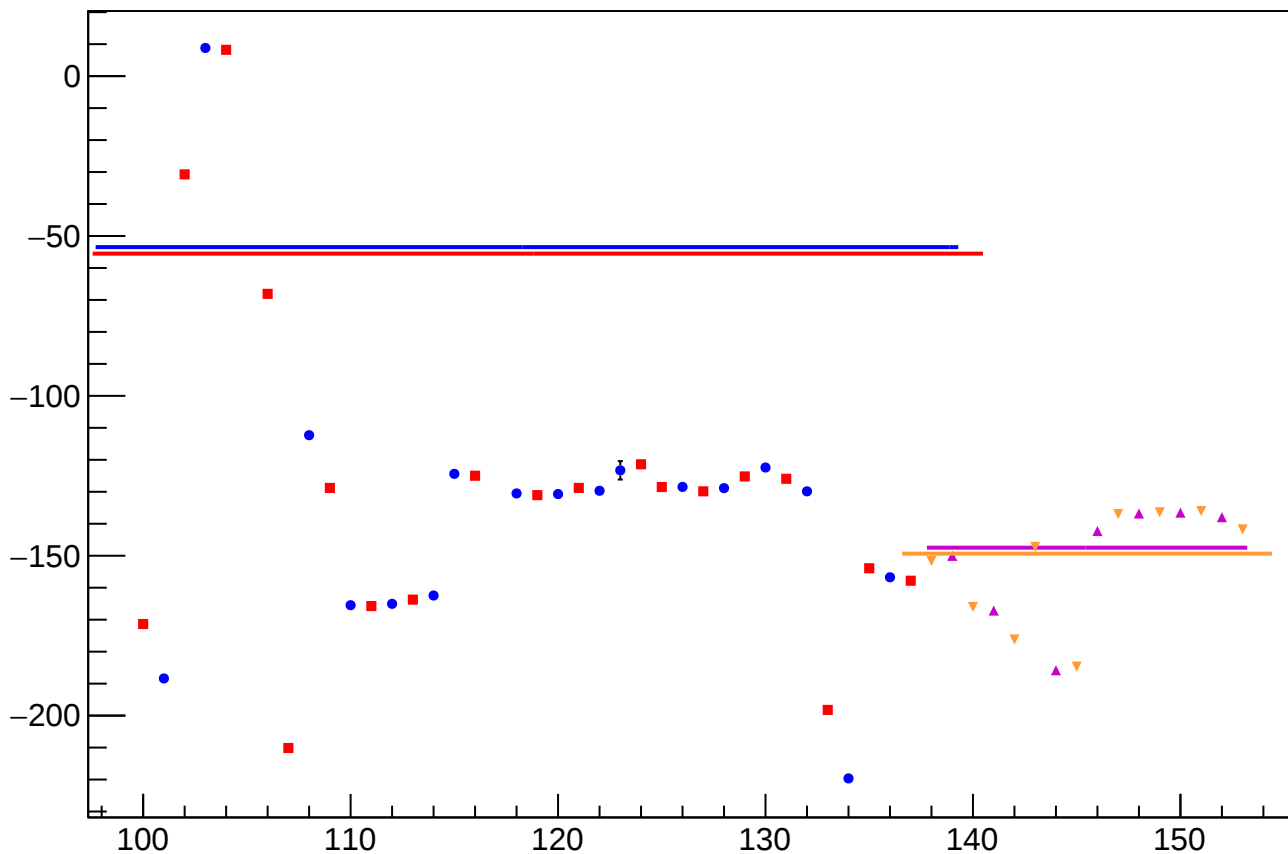
Left In:  $42.639 \pm 1.556$   $\chi^2/\text{NDF}: 262.3/6$

+ sign  $55.685 \pm 1.082$   $\chi^2/\text{NDF}: 1133.0/25$

All:  $51.206 \pm 0.781$   $\chi^2/\text{NDF}: 2094.4/51$

- sign  $46.322 \pm 1.129$   $\chi^2/\text{NDF}: 925.5/25$

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-53.481 \pm 0.070$   $\chi^2/\text{NDF}: 1228730.5/16$

Left Out:  $-149.347 \pm 0.074$   $\chi^2/\text{NDF}: 46503.1/8$

Right Out:  $-55.523 \pm 0.072$   $\chi^2/\text{NDF}: 969818.3/18$

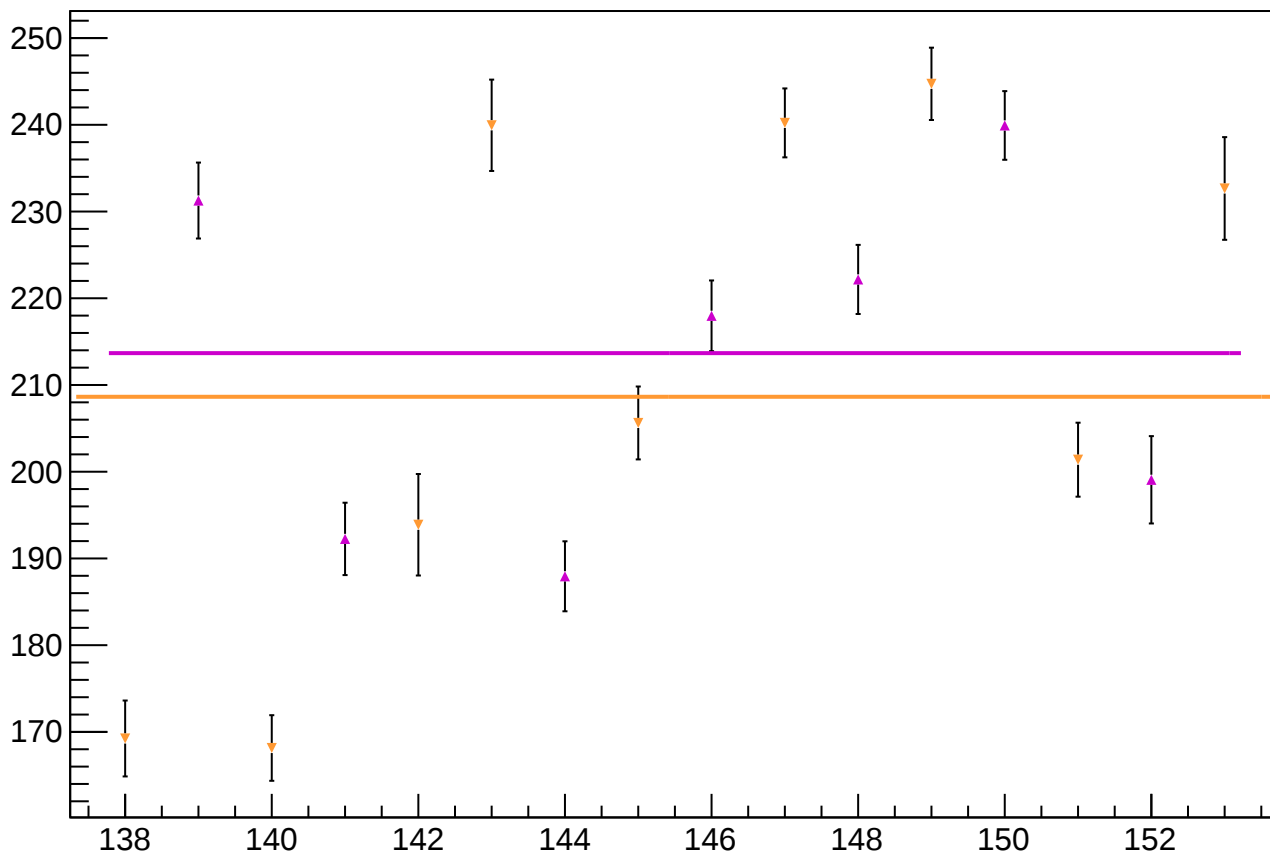
Left In:  $-147.485 \pm 0.078$   $\chi^2/\text{NDF}: 38604.9/6$

+ sign  $-99.242 \pm 0.051$   $\chi^2/\text{NDF}: 2162657.7/25$

All:  $-98.482 \pm 0.037$   $\chi^2/\text{NDF}: 3921272.3/51$

- sign  $-97.660 \pm 0.053$   $\chi^2/\text{NDF}: 1758149.8/25$

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 208.640+/-1.493  $\chi^2/\text{NDF}$ : 395.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

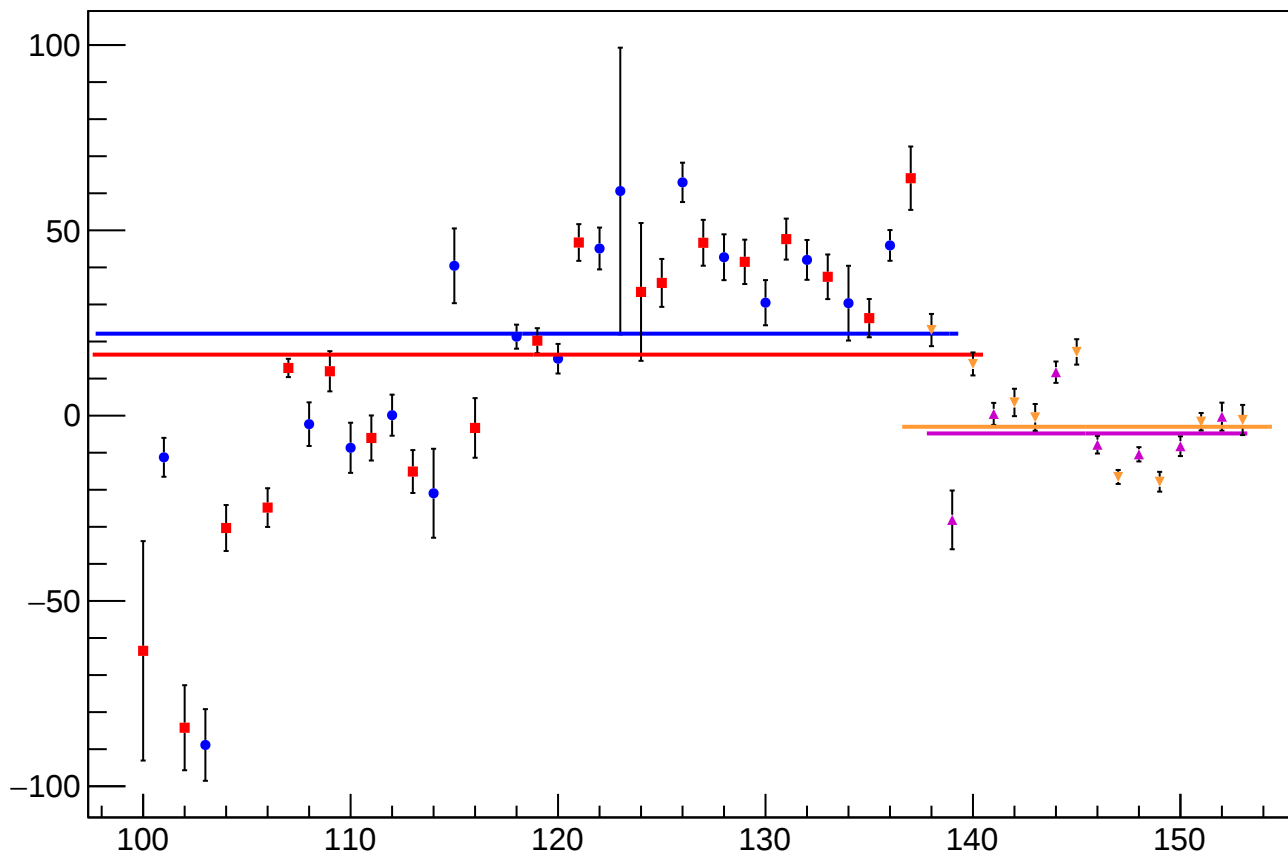
Left In: 213.673+/-1.586  $\chi^2/\text{NDF}$ : 141.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 211.006+/-1.087  $\chi^2/\text{NDF}$ : 541.9/15

- 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: -3.005 $\pm$ 0.974  $\chi^2$ /NDF:187.3/8

Right Out: 16.464 $\pm$ 1.228  $\chi^2$ /NDF: 424.1/18

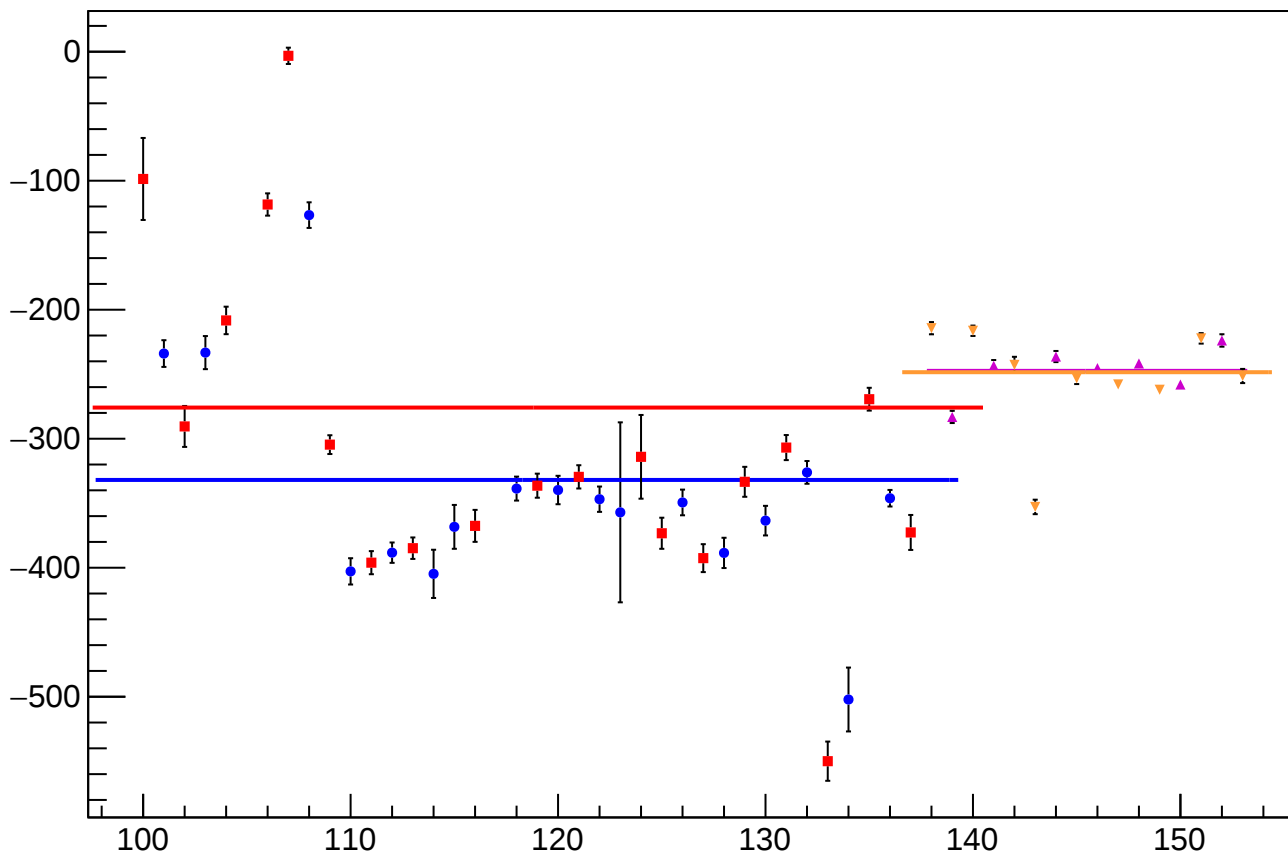
Left In: -4.802 $\pm$ 1.052  $\chi^2$ /NDF:57.9/6

+ sign 5.378 $\pm$ 0.795  $\chi^2$ /NDF: 791.3/25

All: 4.790 $\pm$ 0.564  $\chi^2$ /NDF: 1447.5/51

- sign 4.197 $\pm$ 0.799  $\chi^2$ /NDF: 655.1/25

# 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:  $-248.439 \pm 1.498$   $\chi^2/\text{NDF}: 523.7/8$

Right Out:  $-275.853 \pm 2.323$   $\chi^2/\text{NDF}: 3361.7/18$

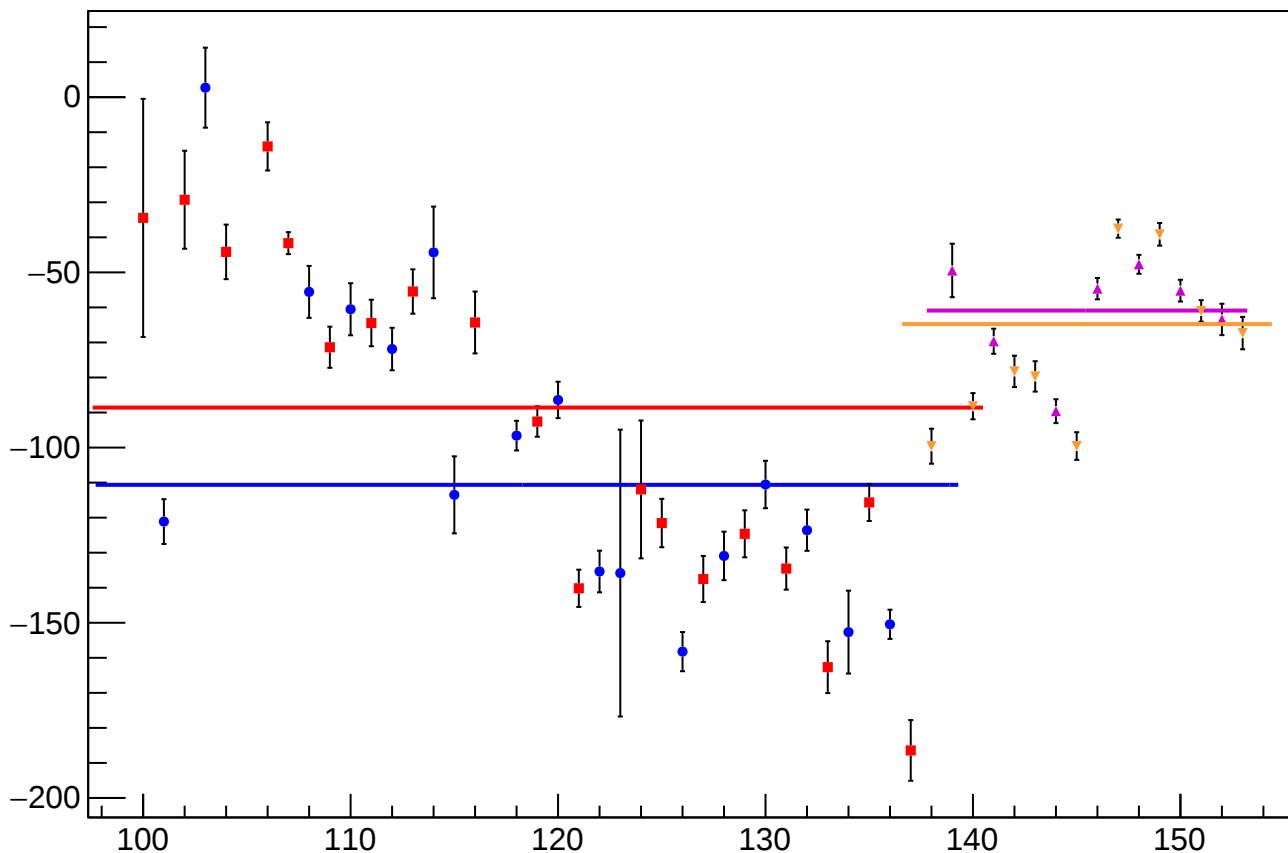
Left In:  $-247.401 \pm 1.576$   $\chi^2/\text{NDF}: 99.0/6$

+ sign  $-269.644 \pm 1.294$   $\chi^2/\text{NDF}: 2098.8/25$

All:  $-263.061 \pm 0.918$   $\chi^2/\text{NDF}: 5714.4/51$

- sign  $-256.368 \pm 1.304$   $\chi^2/\text{NDF}: 3563.4/25$

# 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:  $-64.757 \pm 1.216$   $\chi^2/\text{NDF}$ : 361.5/8

Right Out:  $-88.586 \pm 1.433$   $\chi^2/\text{NDF}$ : 966.5/18

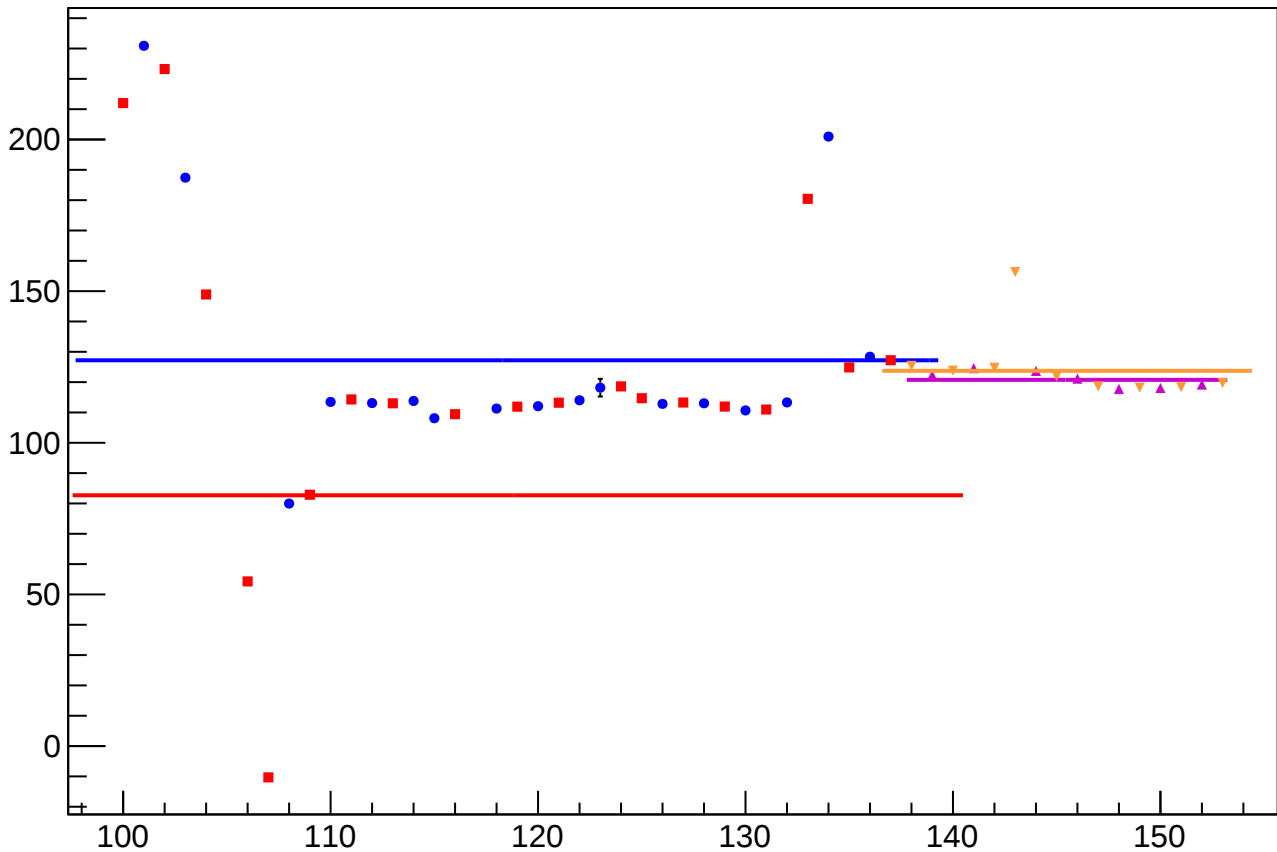
Left In:  $-60.896 \pm 1.313$   $\chi^2/\text{NDF}$ : 110.7/6

+ sign  $-81.810 \pm 0.964$   $\chi^2/\text{NDF}$ : 1399.3/25

All:  $-77.689 \pm 0.683$   $\chi^2/\text{NDF}$ : 2716.2/51

- sign  $-73.533 \pm 0.968$   $\chi^2/\text{NDF}$ : 1280.2/25

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 123.727 $\pm$ 0.063  $\chi^2$ /NDF: 24217.5/8

Right Out: 82.690 $\pm$ 0.075  $\chi^2$ /NDF: 765706.3/18

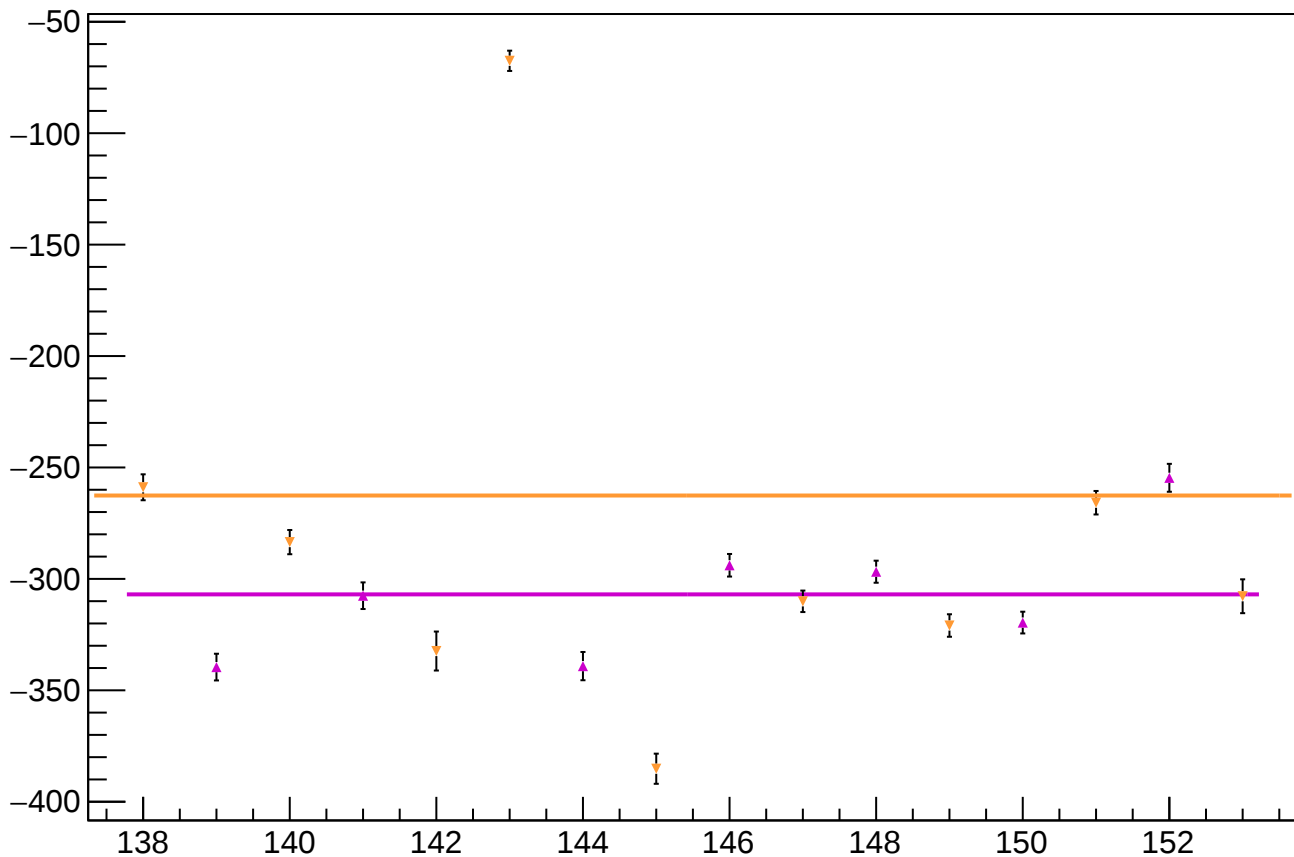
Left In: 120.754 $\pm$ 0.066  $\chi^2$ /NDF: 1492.3/6

+ sign 124.879 $\pm$ 0.051  $\chi^2$ /NDF: 213261.8/25

All: 114.223 $\pm$ 0.036  $\chi^2$ /NDF: 1208947.1/51

- sign 104.308 $\pm$ 0.049  $\chi^2$ /NDF: 912390.0/25

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:  $-262.584 \pm 1.883$   $\chi^2/\text{NDF}$ : 2512.2/8

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

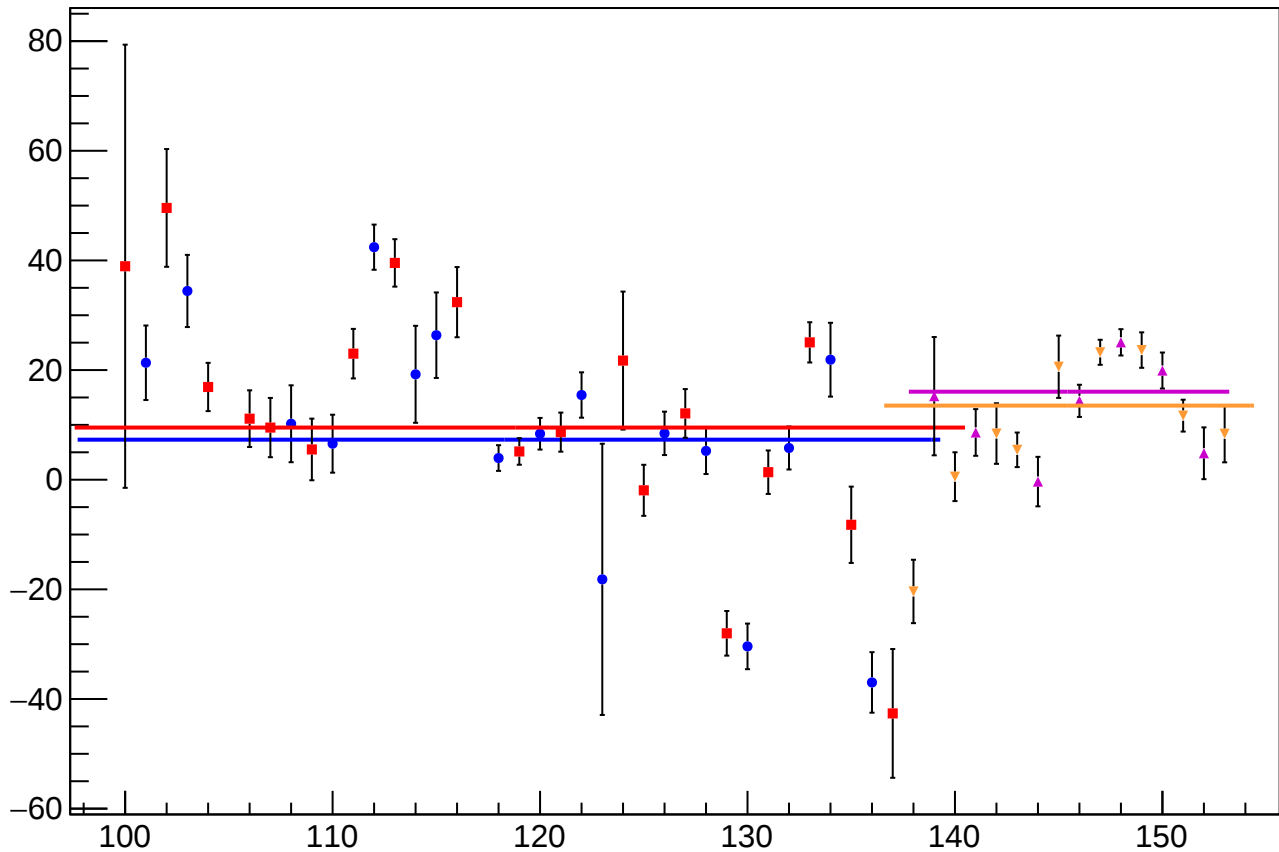
Left In:  $-306.949 \pm 2.094$   $\chi^2/\text{NDF}$ : 142.8/6

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-282.411 \pm 1.400$   $\chi^2/\text{NDF}$ : 2903.2/15

- 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:  $13.518 \pm 1.207$   $\chi^2/\text{NDF}$ : 81.1/8

Right Out:  $9.513 \pm 1.073$   $\chi^2/\text{NDF}$ : 231.7/18

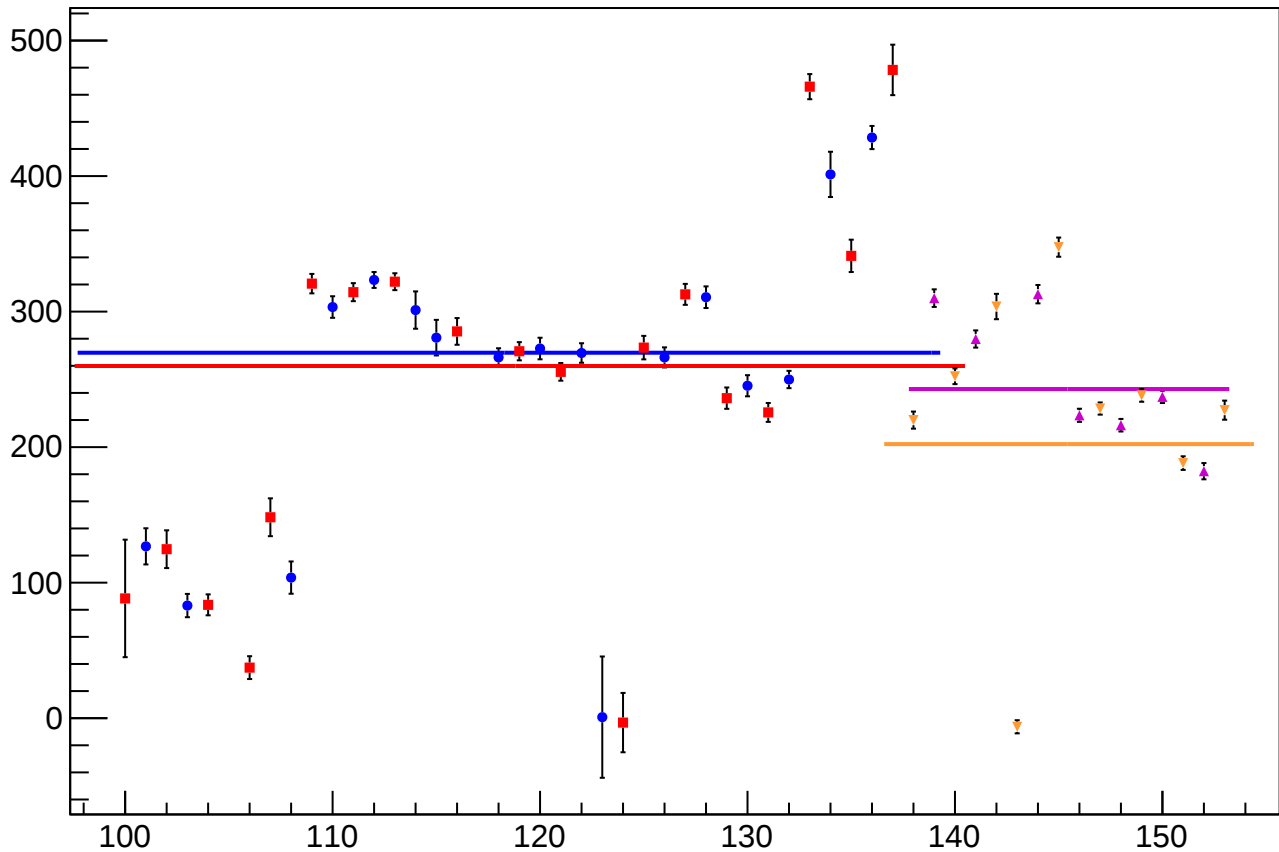
Left In:  $16.053 \pm 1.361$   $\chi^2/\text{NDF}$ : 37.7/6

+ sign  $10.083 \pm 0.807$   $\chi^2/\text{NDF}$ : 356.4/25

All:  $11.009 \pm 0.583$   $\chi^2/\text{NDF}$ : 642.7/51

- sign  $12.019 \pm 0.843$   $\chi^2/\text{NDF}$ : 283.6/25

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 269.664 $\pm$ 2.076  $\chi^2$ /NDF: 1376.6/16

Left Out: 202.230 $\pm$ 1.881  $\chi^2$ /NDF: 2581.1/8

Right Out: 259.869 $\pm$ 1.977  $\chi^2$ /NDF: 2543.7/18

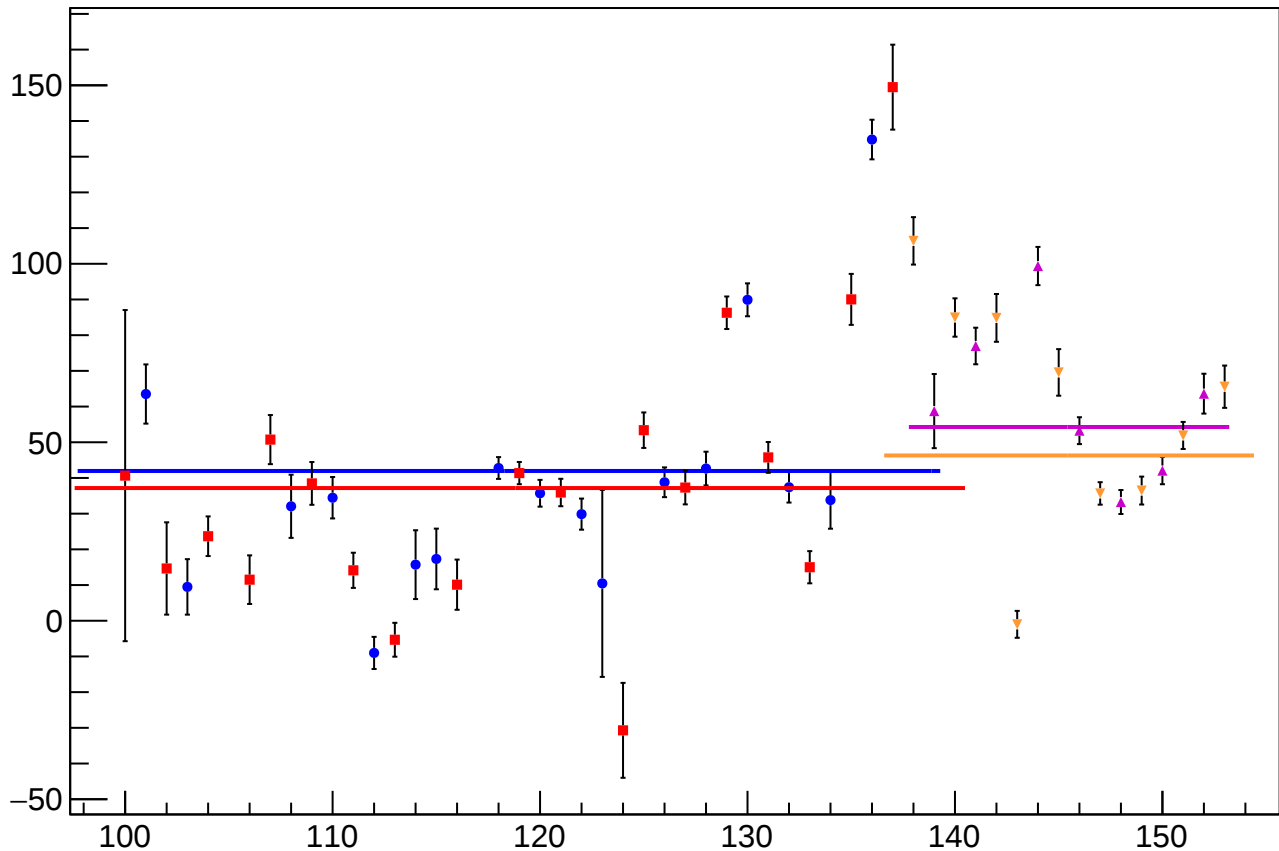
Left In: 242.870 $\pm$ 2.062  $\chi^2$ /NDF: 399.9/6

+ sign 232.624 $\pm$ 1.394  $\chi^2$ /NDF: 4537.2/25

All: 241.952 $\pm$ 0.997  $\chi^2$ /NDF: 7607.9/51

- sign 251.727 $\pm$ 1.427  $\chi^2$ /NDF: 2978.9/25

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $41.959 \pm 1.258$   $\chi^2/\text{NDF}: 574.2/16$

Left Out:  $46.301 \pm 1.511$   $\chi^2/\text{NDF}: 367.5/8$

Right Out:  $37.174 \pm 1.236$   $\chi^2/\text{NDF}: 470.9/18$

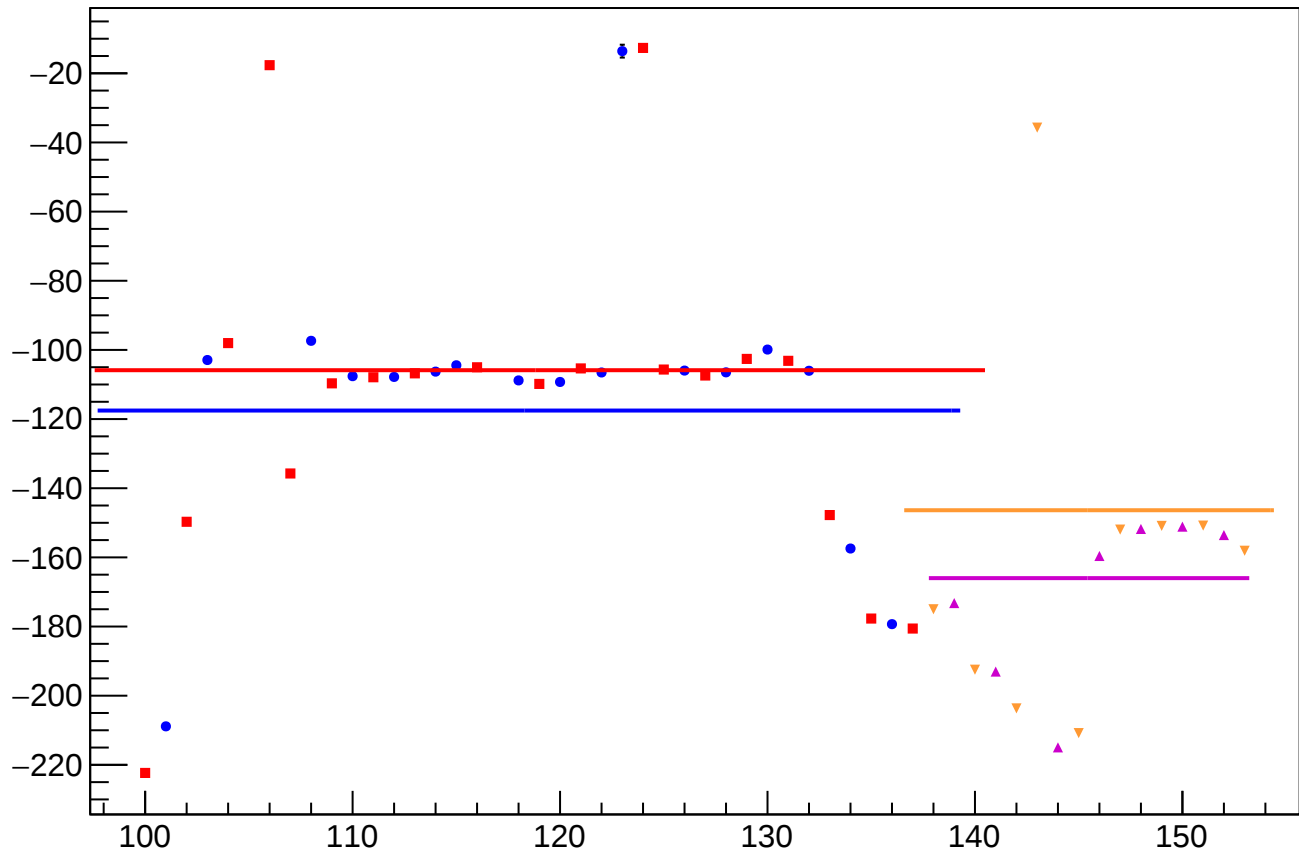
Left In:  $54.280 \pm 1.709$   $\chi^2/\text{NDF}: 143.0/6$

+ sign  $43.737 \pm 0.967$   $\chi^2/\text{NDF}: 946.6/25$

All:  $43.403 \pm 0.696$   $\chi^2/\text{NDF}: 1626.5/51$

- sign  $43.046 \pm 1.001$   $\chi^2/\text{NDF}: 679.6/25$

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:  $-146.365 \pm 0.079$   $\chi^2/\text{NDF}: 448574.9/8$

Right Out:  $-105.868 \pm 0.073$   $\chi^2/\text{NDF}: 324319.1/18$

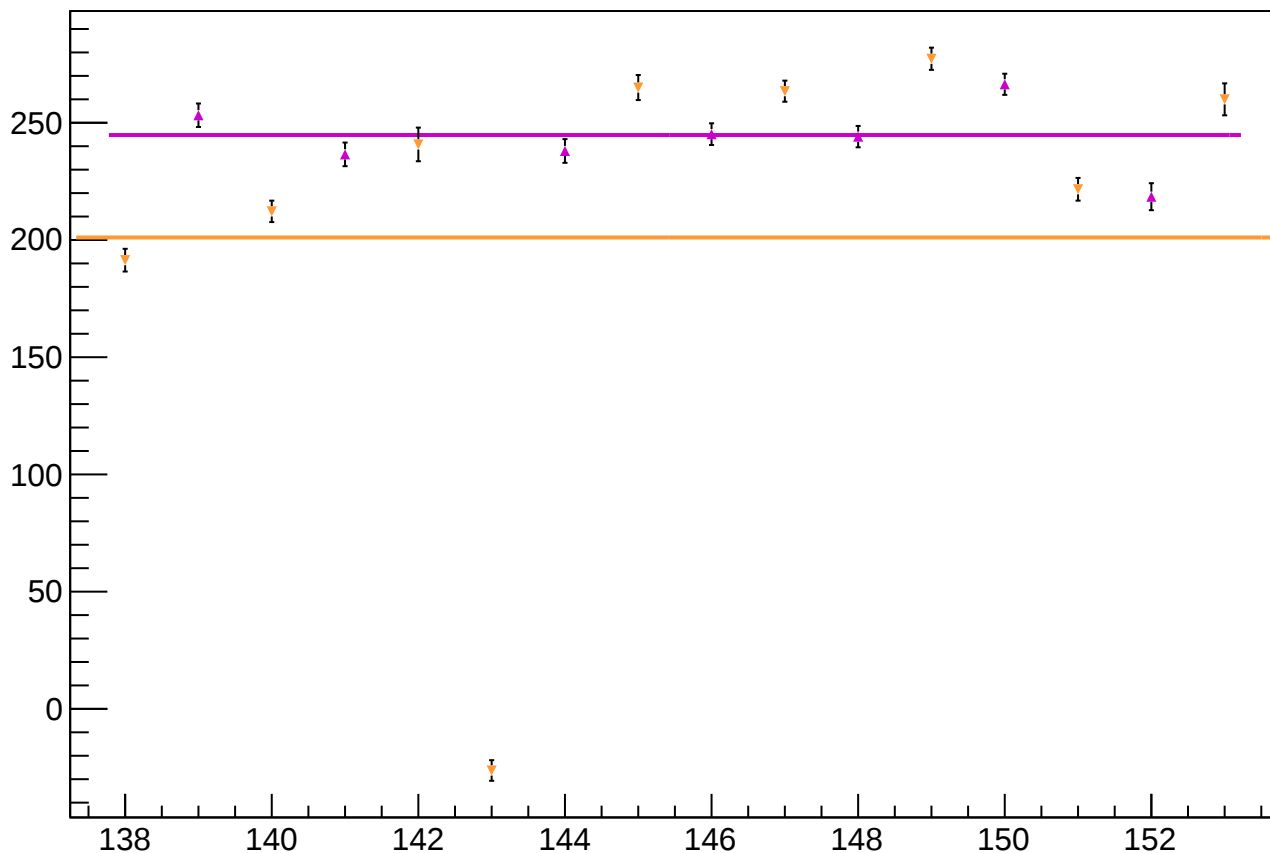
Left In:  $-166.001 \pm 0.086$   $\chi^2/\text{NDF}: 53733.8/6$

+ sign  $-131.802 \pm 0.056$   $\chi^2/\text{NDF}: 658016.4/25$

All:  $-131.359 \pm 0.039$   $\chi^2/\text{NDF}: 1320591.6/51$

- sign  $-130.916 \pm 0.056$   $\chi^2/\text{NDF}: 662448.0/25$

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 201.071+/-1.679  $\chi^2/\text{NDF}$ :3404.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

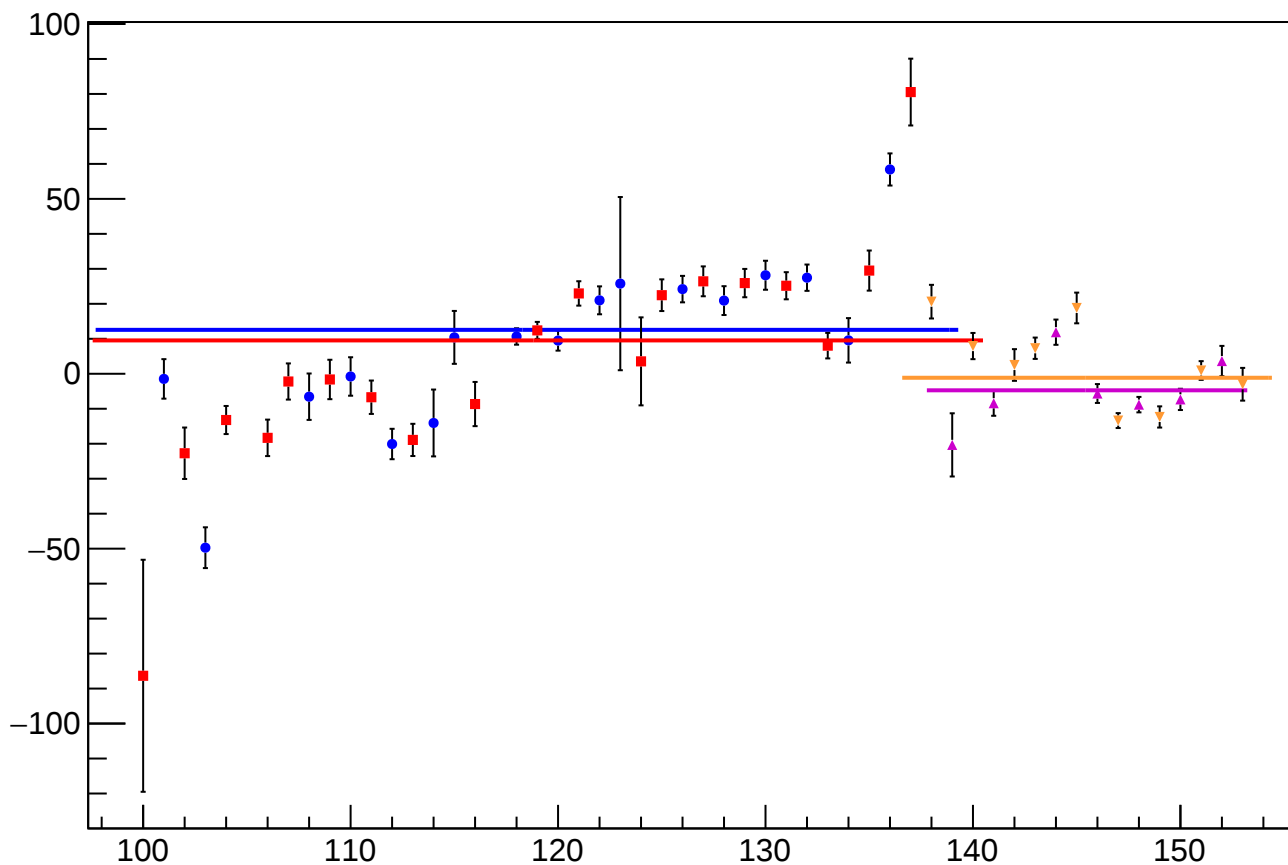
Left In: 244.775+/-1.849  $\chi^2/\text{NDF}$ :51.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 220.821+/-1.243  $\chi^2/\text{NDF}$ : 3762.6/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $12.559 \pm 1.057$   $\chi^2/\text{NDF}$ : 348.6/16

Left Out:  $-1.141 \pm 1.093$   $\chi^2/\text{NDF}$ : 102.7/8

Right Out:  $9.535 \pm 1.049$   $\chi^2/\text{NDF}$ : 295.8/18

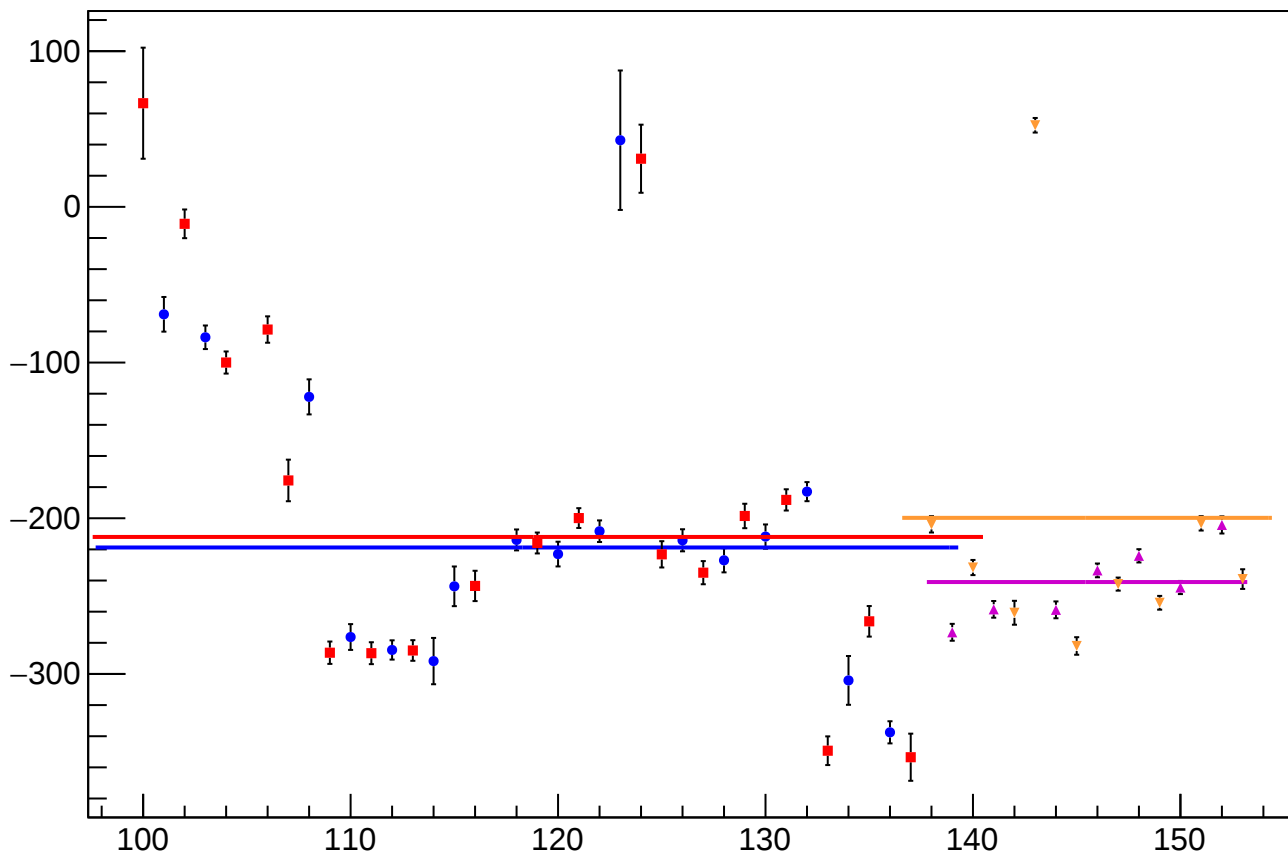
Left In:  $-4.730 \pm 1.221$   $\chi^2/\text{NDF}$ : 33.3/6

+ sign  $5.937 \pm 0.760$   $\chi^2/\text{NDF}$ : 532.4/25

All:  $4.765 \pm 0.550$   $\chi^2/\text{NDF}$ : 944.9/51

- sign  $3.482 \pm 0.796$   $\chi^2/\text{NDF}$ : 407.6/25

# 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:  $-199.740 \pm 1.685$   $\chi^2/\text{NDF}: 3506.5/8$

Right Out:  $-212.004 \pm 1.923$   $\chi^2/\text{NDF}: 1885.7/18$

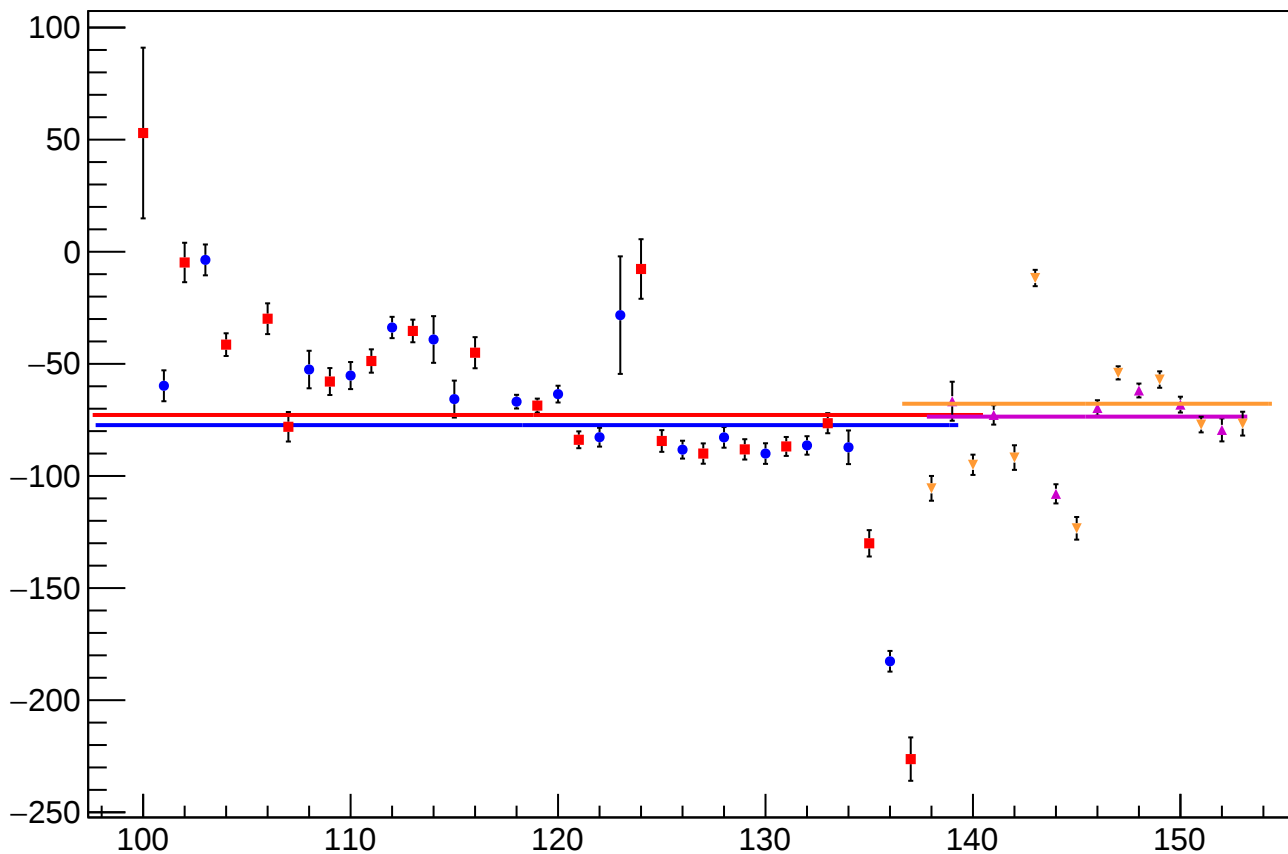
Left In:  $-240.970 \pm 1.831$   $\chi^2/\text{NDF}: 120.4/6$

+ sign  $-207.595 \pm 1.292$   $\chi^2/\text{NDF}: 4703.5/25$

All:  $-217.136 \pm 0.925$   $\chi^2/\text{NDF}: 6940.7/51$

- sign  $-227.198 \pm 1.326$   $\chi^2/\text{NDF}: 2125.1/25$

# 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:  $-67.786 \pm 1.364$   $\chi^2/\text{NDF}$ : 500.6/8

Right Out:  $-72.796 \pm 1.207$   $\chi^2/\text{NDF}$ : 671.7/18

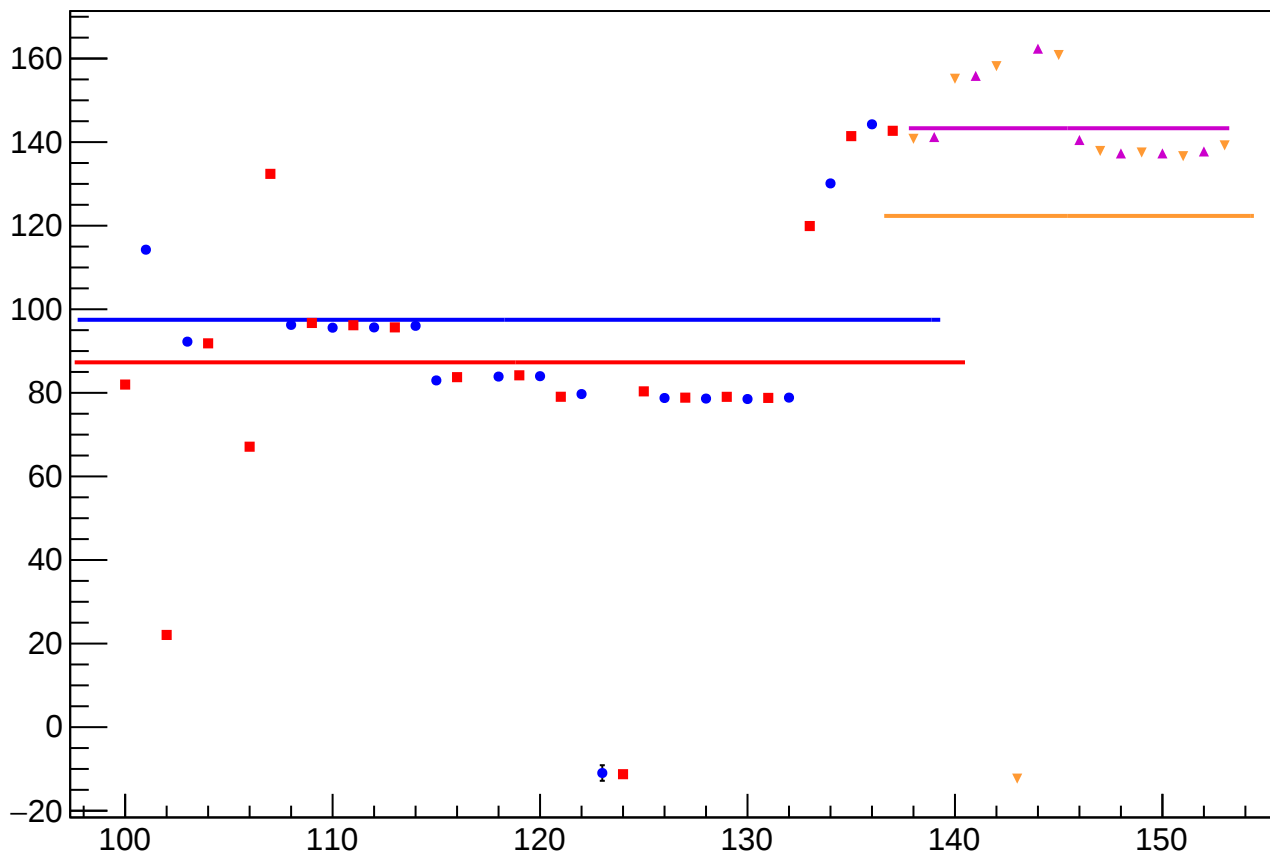
Left In:  $-73.539 \pm 1.528$   $\chi^2/\text{NDF}$ : 84.6/6

+ sign  $-73.075 \pm 0.910$   $\chi^2/\text{NDF}$ : 1345.4/25

All:  $-73.078 \pm 0.656$   $\chi^2/\text{NDF}$ : 2101.8/51

- sign  $-73.081 \pm 0.947$   $\chi^2/\text{NDF}$ : 756.5/25

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $97.483 \pm 0.073$   $\chi^2/\text{NDF}$ : 94392.9/16

Left Out:  $122.339 \pm 0.070$   $\chi^2/\text{NDF}$ : 610123.5/8

Right Out:  $87.299 \pm 0.068$   $\chi^2/\text{NDF}$ : 221885.0/18

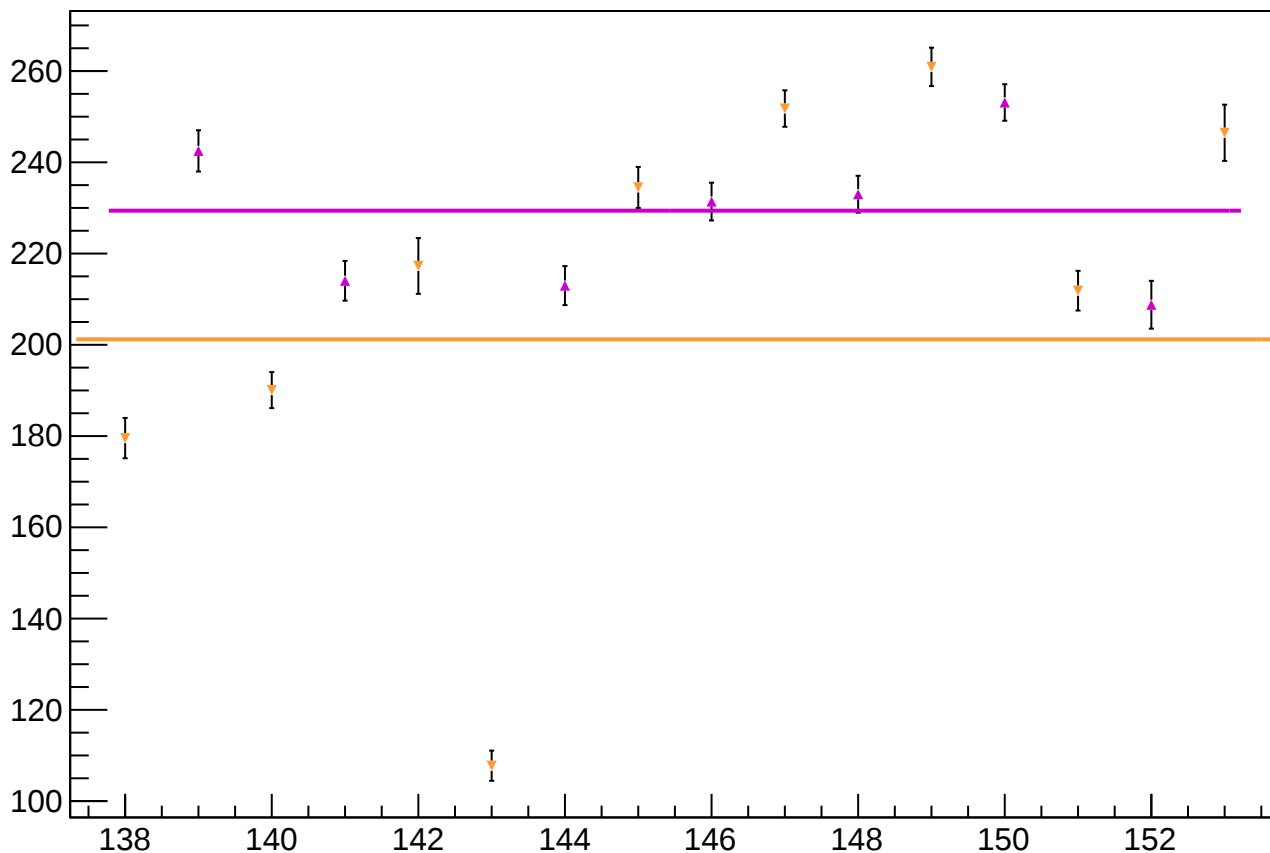
Left In:  $143.320 \pm 0.076$   $\chi^2/\text{NDF}$ : 12988.8/6

+ sign  $110.406 \pm 0.051$   $\chi^2/\text{NDF}$ : 764194.4/25

All:  $111.308 \pm 0.036$   $\chi^2/\text{NDF}$ : 1299547.1/51

- sign  $112.210 \pm 0.051$   $\chi^2/\text{NDF}$ : 534723.4/25

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: 201.203+/-1.442  $\chi^2/\text{NDF}$ :1314.1/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

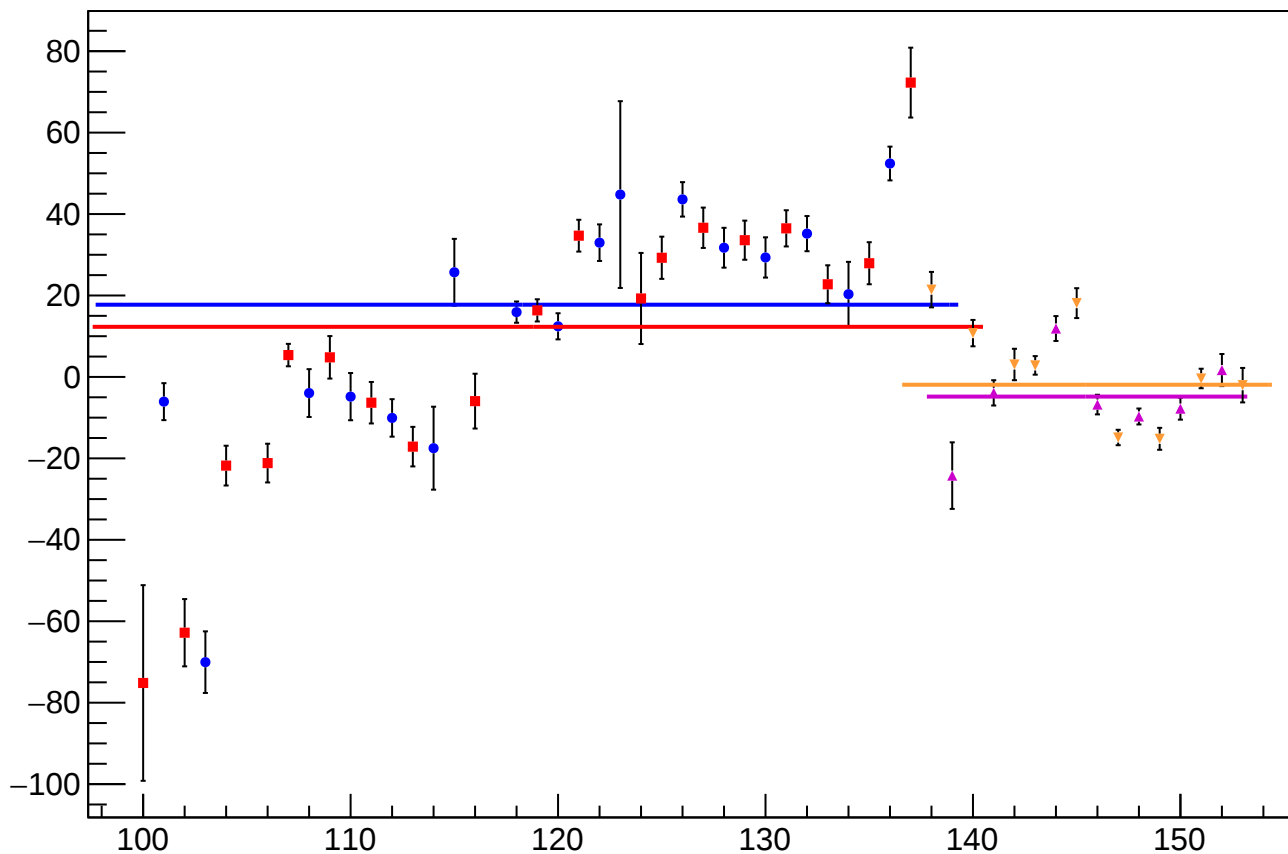
Left In: 229.401+/-1.634  $\chi^2/\text{NDF}$ :87.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 213.548+/-1.081  $\chi^2/\text{NDF}$ : 1568.8/15

- 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:  $-1.917 \pm 0.941$   $\chi^2/\text{NDF}: 151.5/8$

Right Out:  $12.306 \pm 1.084$   $\chi^2/\text{NDF}: 442.5/18$

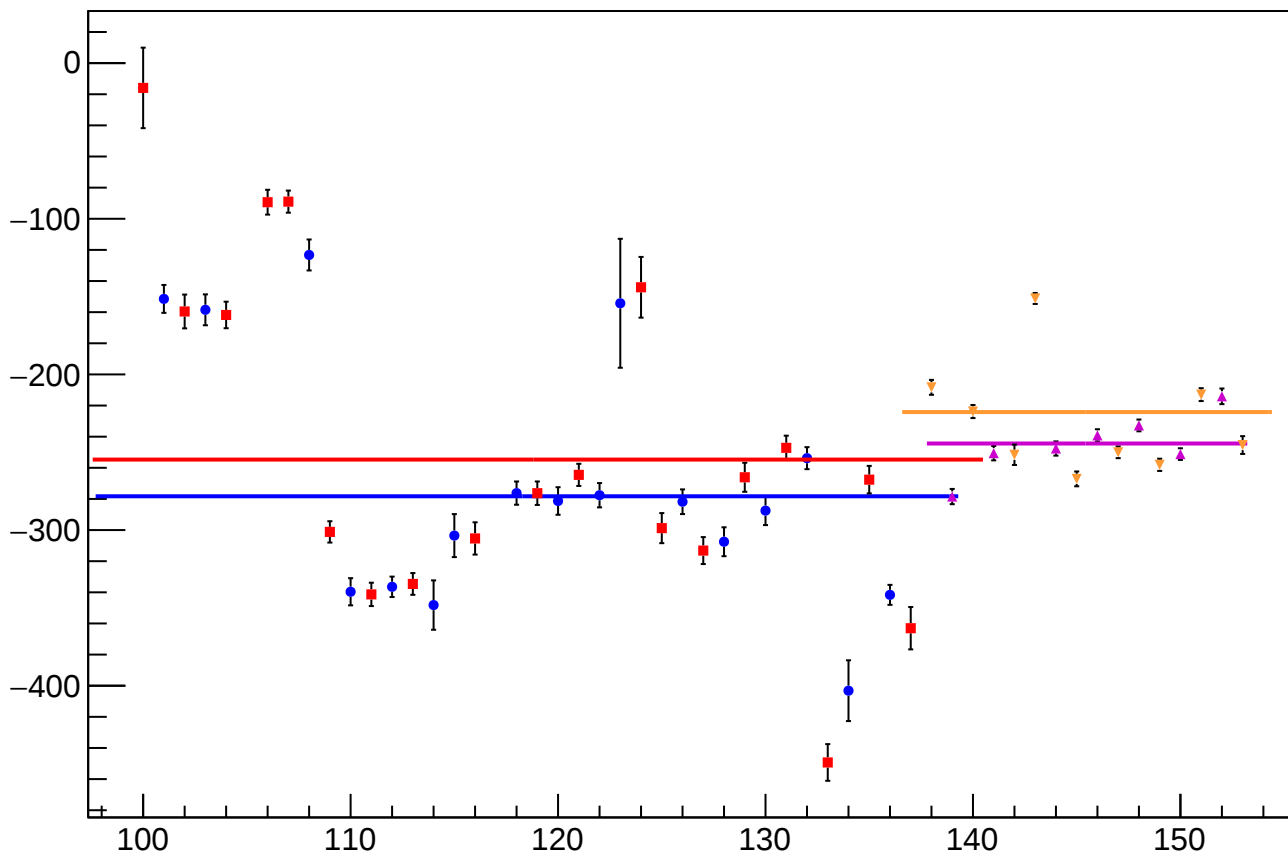
Left In:  $-4.830 \pm 1.078$   $\chi^2/\text{NDF}: 46.5/6$

+ sign  $5.980 \pm 0.728$   $\chi^2/\text{NDF}: 720.6/25$

All:  $4.891 \pm 0.527$   $\chi^2/\text{NDF}: 1339.9/51$

- sign  $3.690 \pm 0.764$   $\chi^2/\text{NDF}: 614.6/25$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -278.294 $\pm$ 2.172  $\chi^2$ /NDF: 910.0/16

Left Out: -224.176 $\pm$ 1.454  $\chi^2$ /NDF: 681.8/8

Right Out: -254.713 $\pm$ 2.019  $\chi^2$ /NDF: 2038.0/18

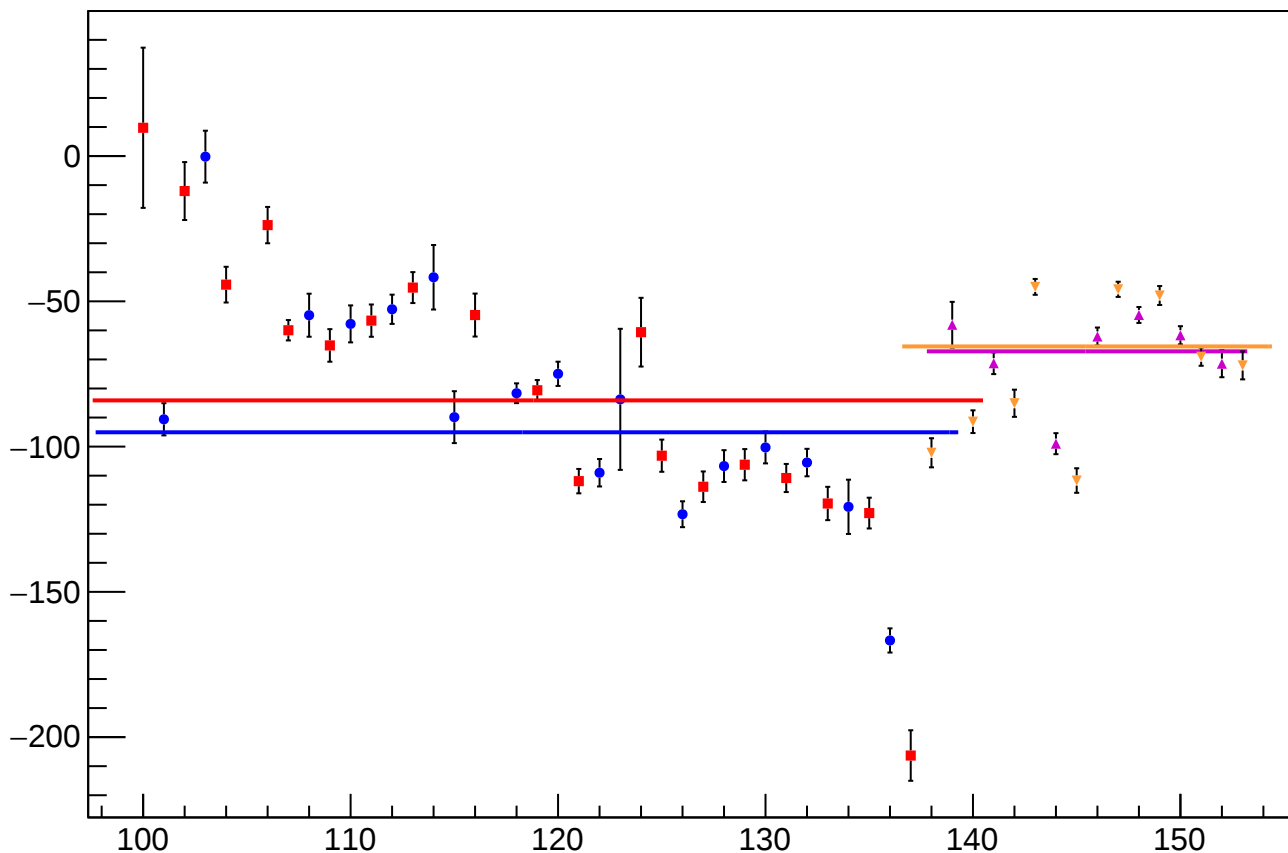
Left In: -244.386 $\pm$ 1.620  $\chi^2$ /NDF: 101.7/6

+ sign -240.917 $\pm$ 1.208  $\chi^2$ /NDF: 2020.5/25

All: -244.506 $\pm$ 0.873  $\chi^2$ /NDF: 4194.6/51

- sign -248.433 $\pm$ 1.264  $\chi^2$ /NDF: 2155.6/25

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:  $-65.520 \pm 1.172$   $\chi^2/\text{NDF}$ : 379.3/8

Right Out:  $-84.094 \pm 1.257$   $\chi^2/\text{NDF}$ : 780.4/18

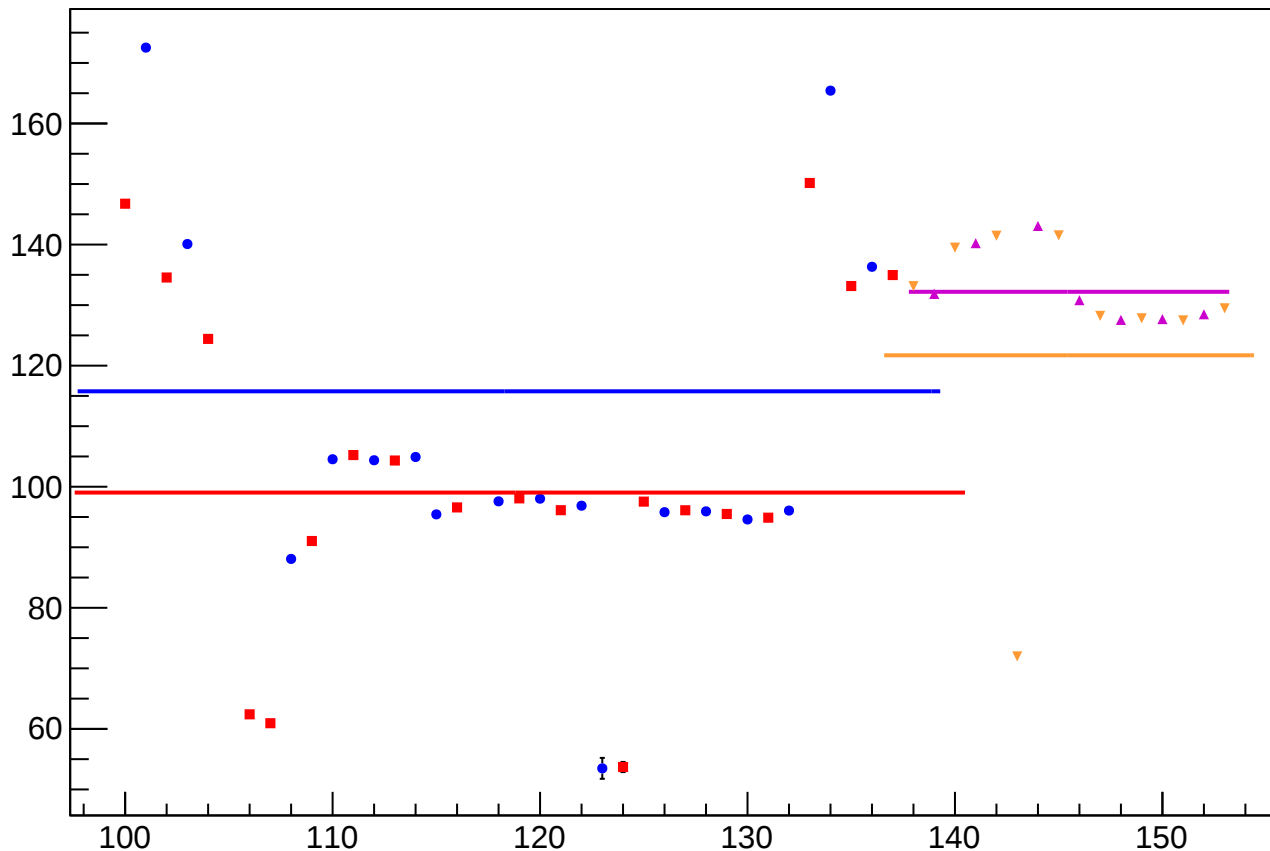
Left In:  $-67.212 \pm 1.348$   $\chi^2/\text{NDF}$ : 107.2/6

+ sign  $-78.488 \pm 0.878$   $\chi^2/\text{NDF}$ : 1331.6/25

All:  $-77.416 \pm 0.635$   $\chi^2/\text{NDF}$ : 2306.3/51

- sign  $-76.241 \pm 0.919$   $\chi^2/\text{NDF}$ : 971.5/25

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: 121.713 $\pm$ 0.061  $\chi^2$ /NDF:157815.5/8

Right Out: 99.037 $\pm$ 0.068  $\chi^2$ /NDF: 173477.1/18

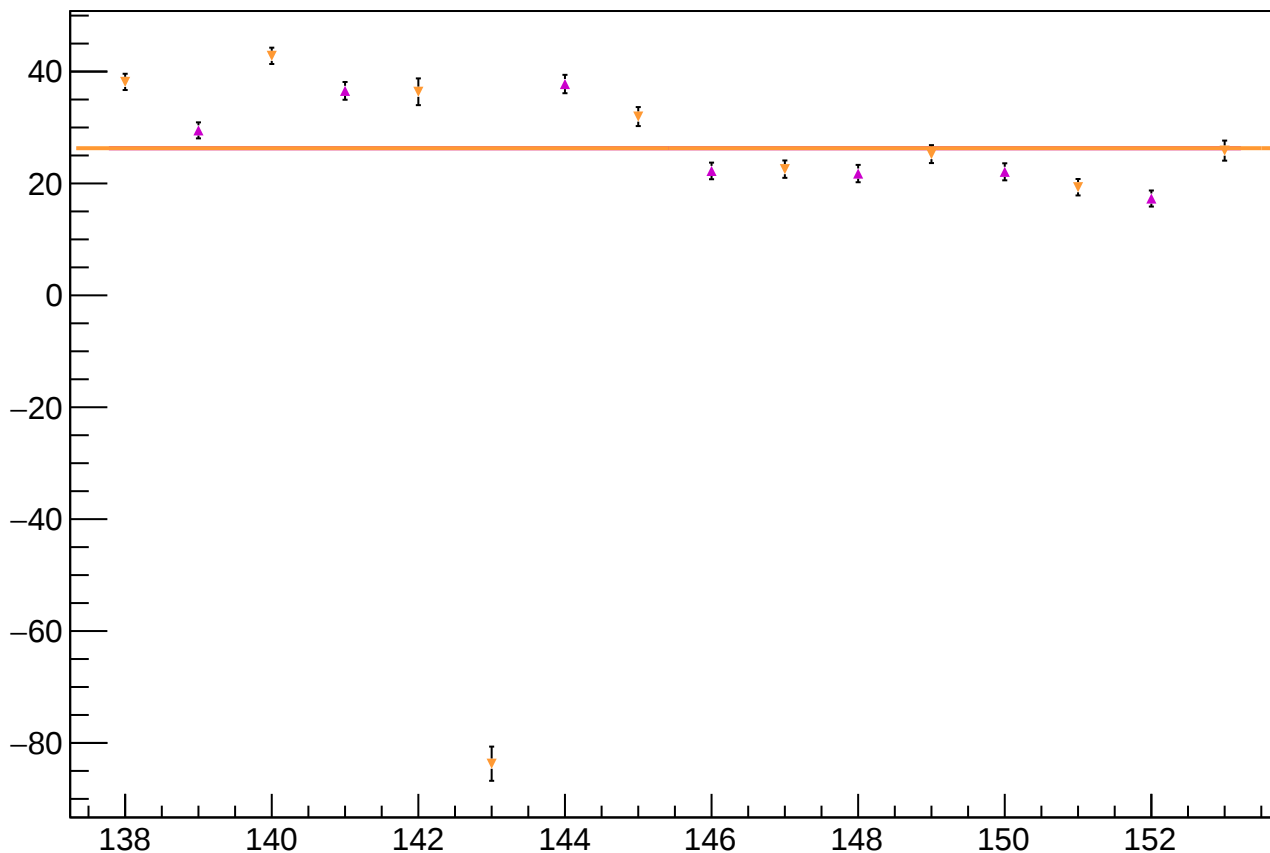
Left In: 132.198 $\pm$ 0.068  $\chi^2$ /NDF:6825.5/6

+ sign 119.471 $\pm$ 0.048  $\chi^2$ /NDF: 267731.7/25

All: 117.663 $\pm$ 0.034  $\chi^2$ /NDF: 569742.9/51

- sign 115.844 $\pm$ 0.048  $\chi^2$ /NDF: 299158.7/25

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: 26.300+/-0.563  $\chi^2/\text{NDF}$ :1548.6/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

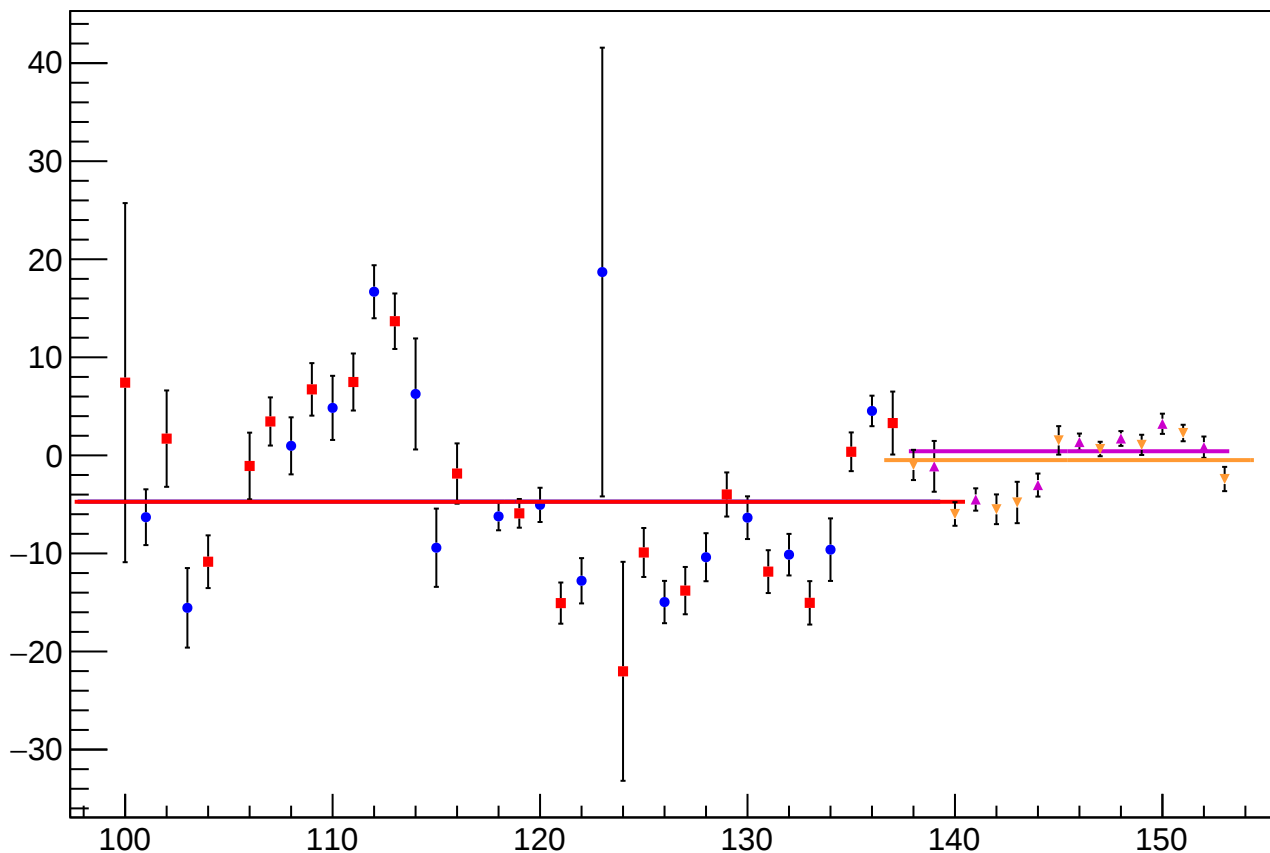
Left In: 26.287+/-0.573  $\chi^2/\text{NDF}$ :158.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.294+/-0.402  $\chi^2/\text{NDF}$ : 1706.9/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-4.713 \pm 0.581$   $\chi^2/\text{NDF}$ : 174.7/16

Left Out:  $-0.483 \pm 0.375$   $\chi^2/\text{NDF}$ : 55.9/8

Right Out:  $-4.732 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.7/18

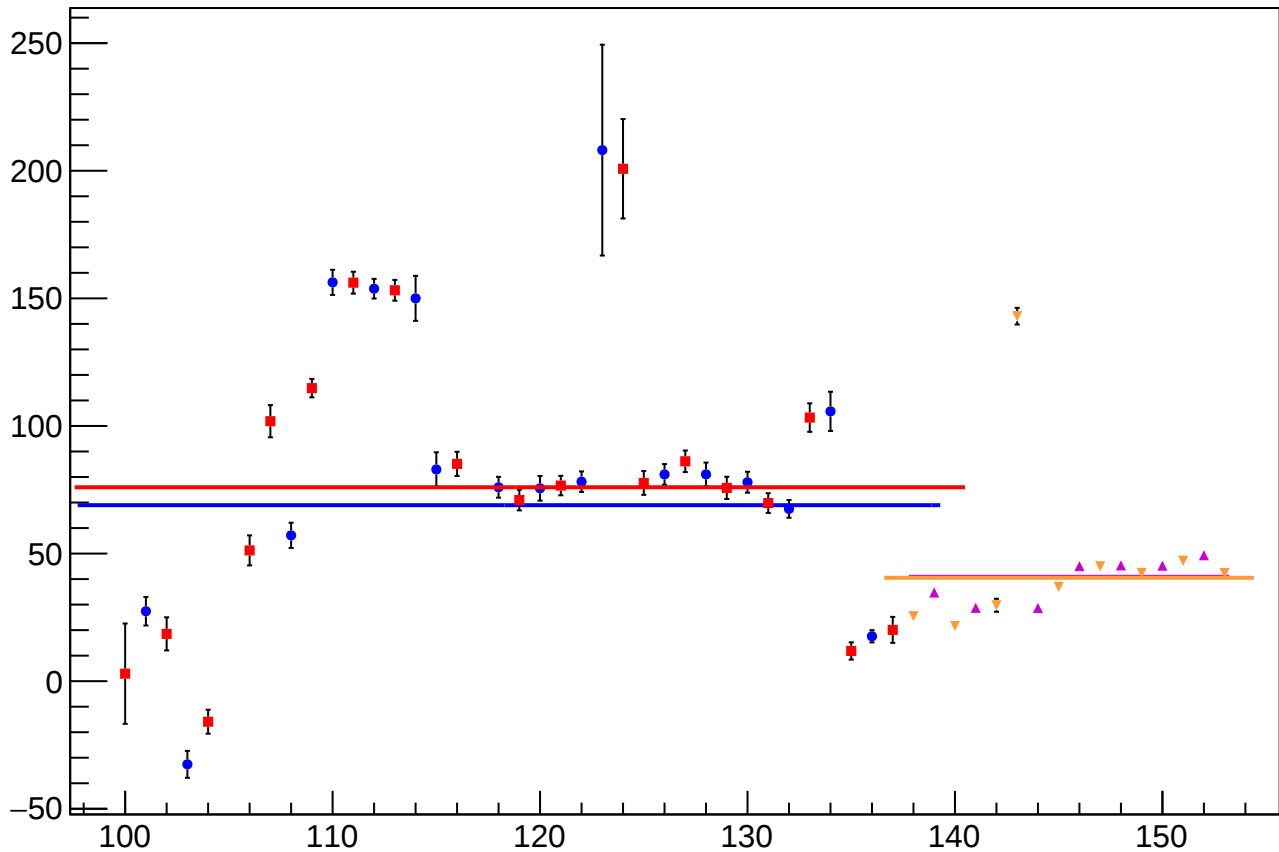
Left In:  $0.421 \pm 0.391$   $\chi^2/\text{NDF}$ : 39.4/6

+ sign  $-1.730 \pm 0.315$   $\chi^2/\text{NDF}$ : 268.0/25

All:  $-1.460 \pm 0.226$   $\chi^2/\text{NDF}$ : 552.2/51

- sign  $-1.173 \pm 0.325$   $\chi^2/\text{NDF}$ : 282.7/25

# reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $68.960 \pm 1.079$   $\chi^2/\text{NDF}: 1844.0/16$

Left Out:  $40.514 \pm 0.562$   $\chi^2/\text{NDF}: 1284.9/8$

Right Out:  $75.982 \pm 1.069$   $\chi^2/\text{NDF}: 1894.8/18$

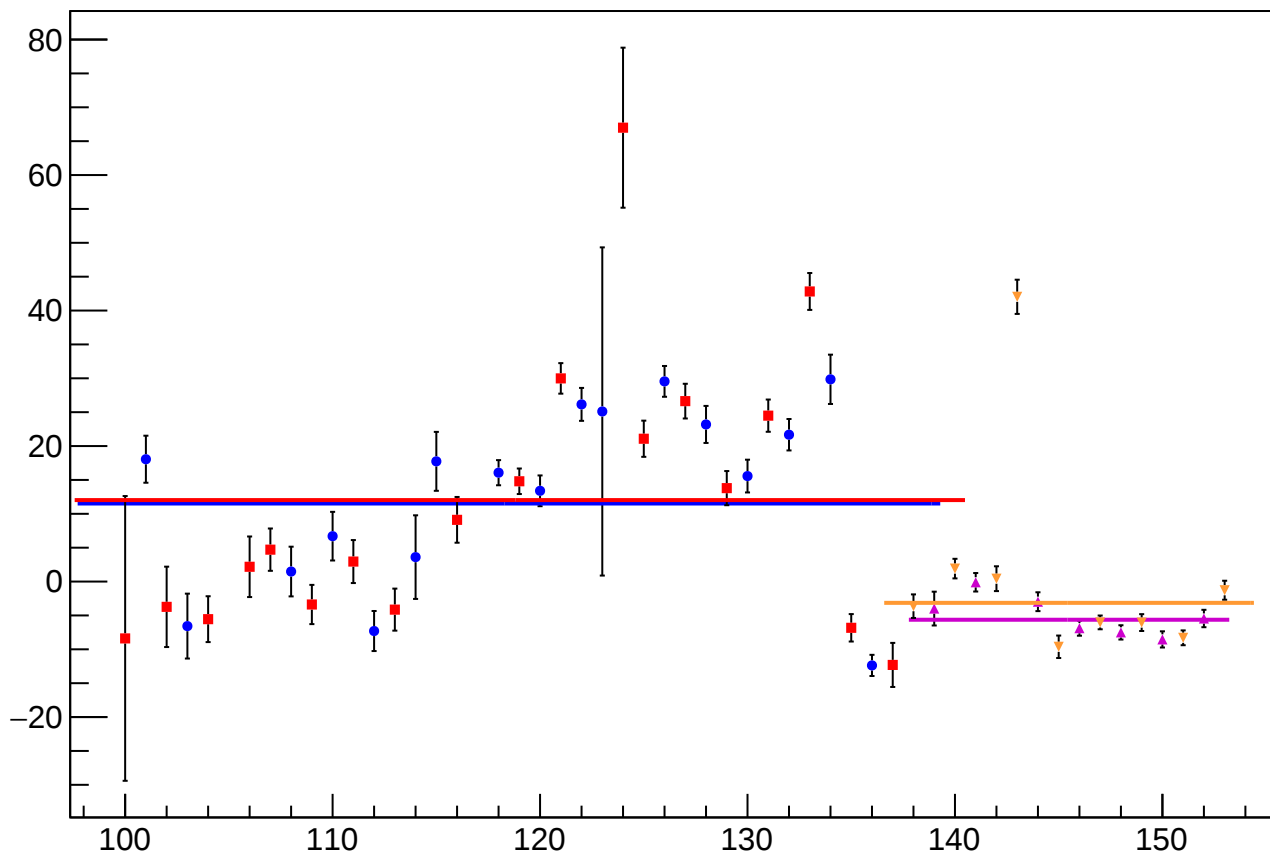
Left In:  $40.900 \pm 0.570$   $\chi^2/\text{NDF}: 181.3/6$

+ sign  $46.580 \pm 0.498$   $\chi^2/\text{NDF}: 3675.8/25$

All:  $47.608 \pm 0.354$   $\chi^2/\text{NDF}: 6598.7/51$

- sign  $48.655 \pm 0.503$   $\chi^2/\text{NDF}: 2914.4/25$

# reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $11.521 \pm 0.660$   $\chi^2/\text{NDF}: 477.2/16$

Left Out:  $-3.142 \pm 0.467$   $\chi^2/\text{NDF}: 388.9/8$

Right Out:  $12.026 \pm 0.664$   $\chi^2/\text{NDF}: 539.7/18$

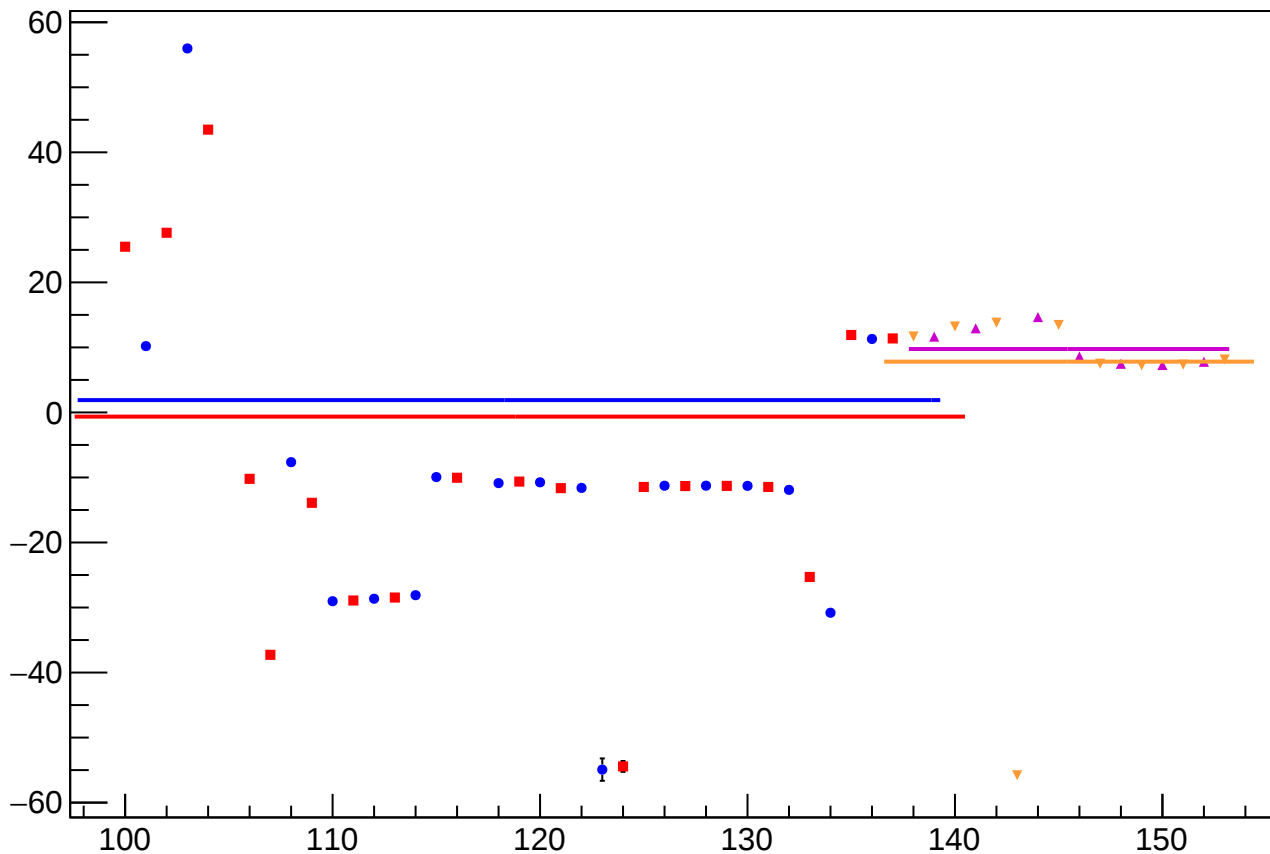
Left In:  $-5.635 \pm 0.486$   $\chi^2/\text{NDF}: 30.8/6$

+ sign  $1.749 \pm 0.381$   $\chi^2/\text{NDF}: 1195.3/25$

All:  $1.154 \pm 0.273$   $\chi^2/\text{NDF}: 2231.3/51$

- sign  $0.524 \pm 0.392$   $\chi^2/\text{NDF}: 1031.0/25$

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: 7.811 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 256208.4/8

Right Out: -0.644 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 361626.2/18

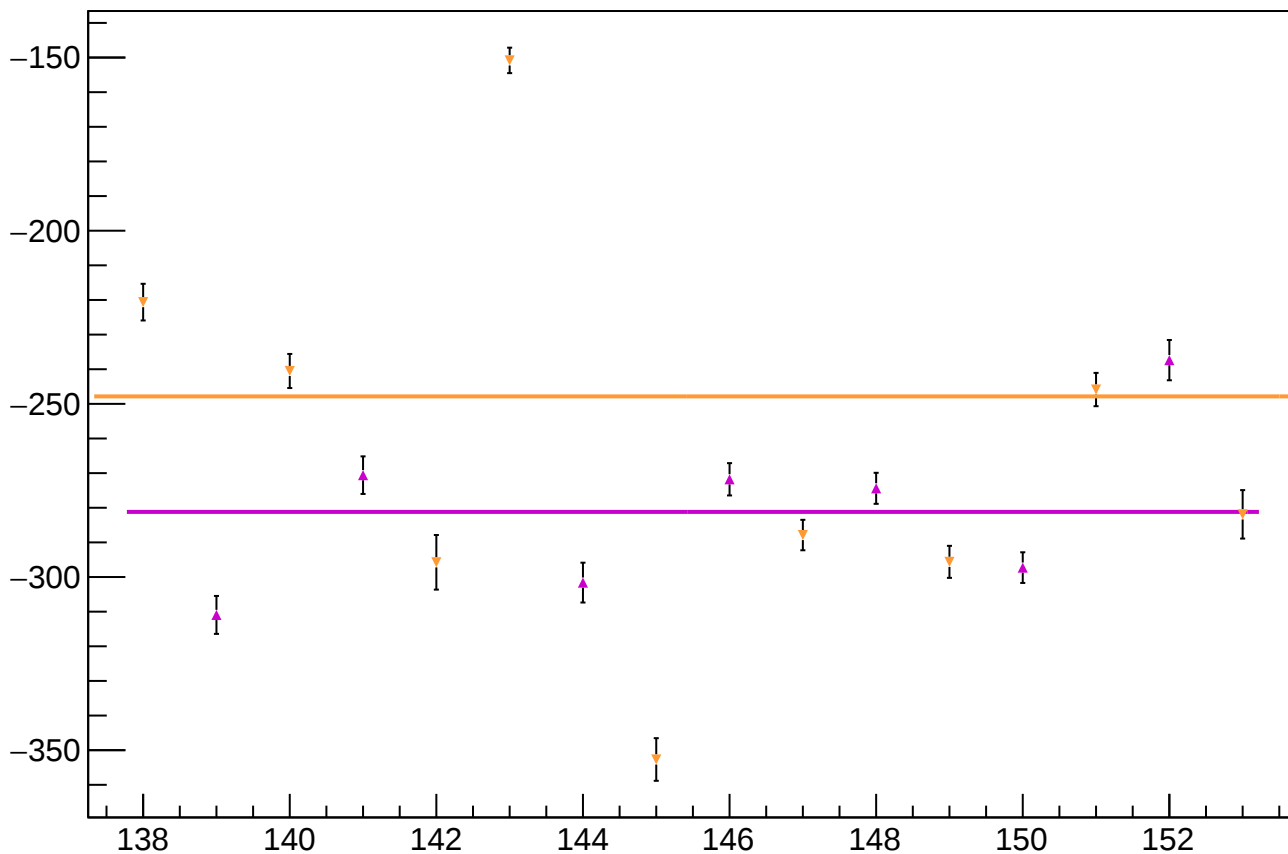
Left In: 9.751 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 12028.8/6

+ sign 6.140 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 633360.5/25

All: 6.450 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 1063626.4/51

- sign 6.766 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 429765.5/25

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: -247.843+/-1.677  $\chi^2/\text{NDF}$ :1265.8/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

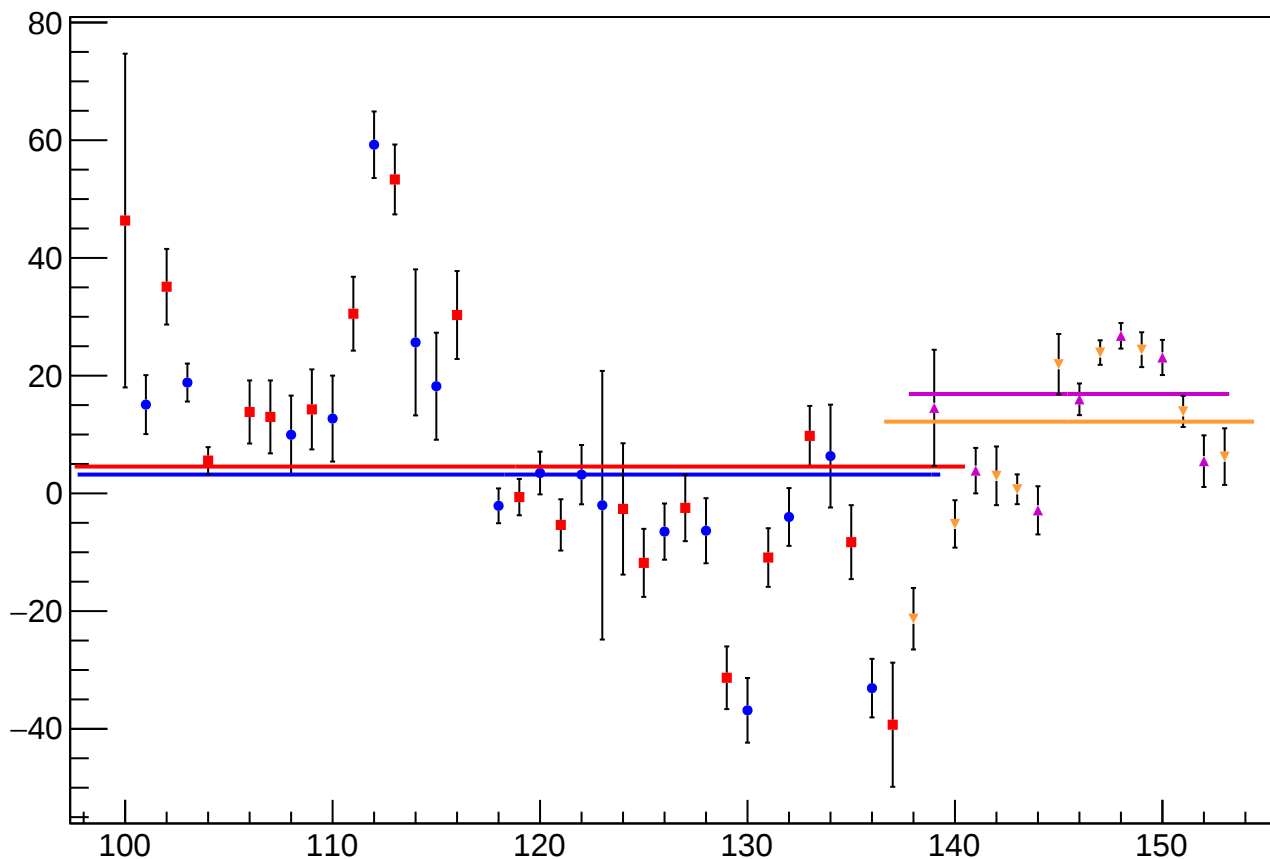
Left In: -281.196+/-1.911  $\chi^2/\text{NDF}$ :122.2/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -262.353+/-1.260  $\chi^2/\text{NDF}$ : 1560.1/15

- 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:  $12.190 \pm 1.076$   $\chi^2/\text{NDF}$ : 138.1/8

Right Out:  $4.558 \pm 1.158$   $\chi^2/\text{NDF}$ : 223.9/18

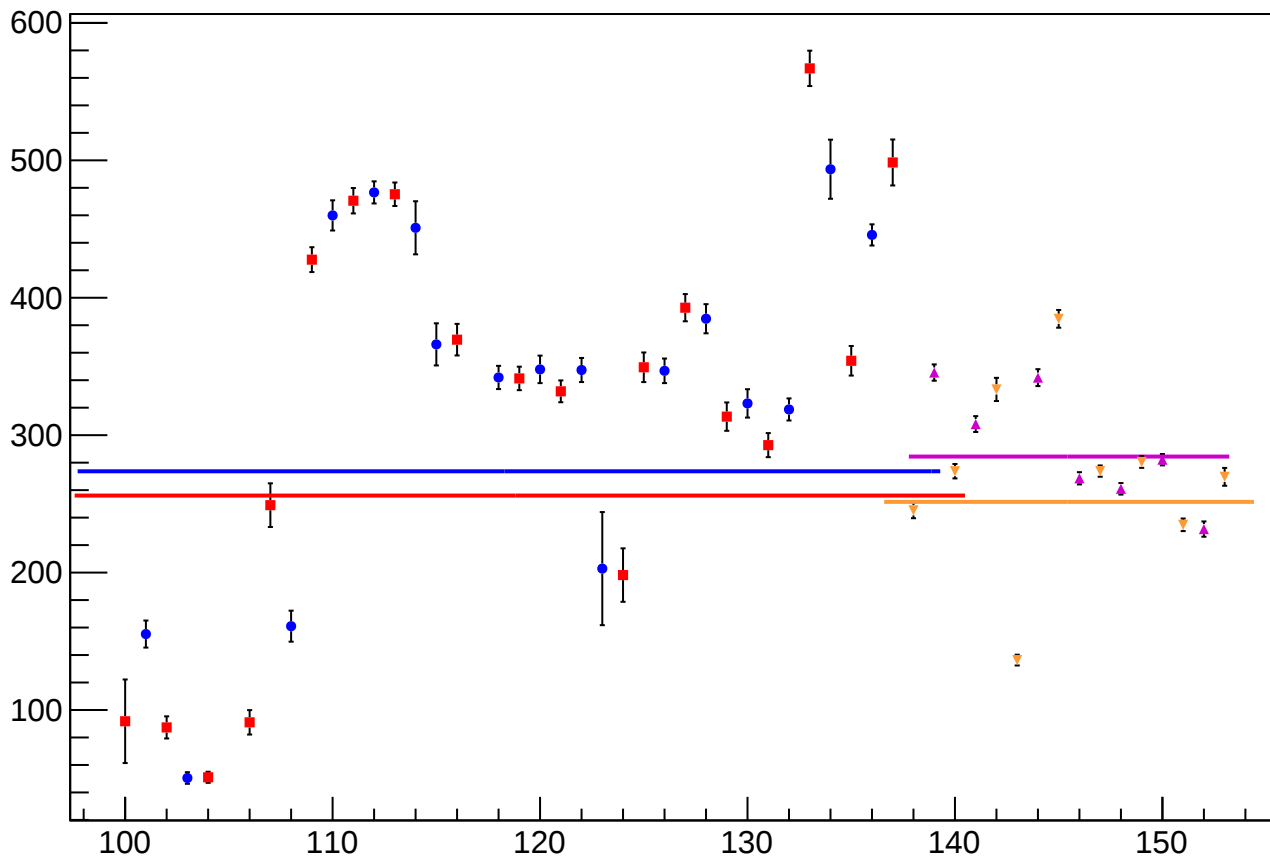
Left In:  $16.888 \pm 1.239$   $\chi^2/\text{NDF}$ : 66.7/6

+ sign  $8.282 \pm 0.809$   $\chi^2/\text{NDF}$ : 423.6/25

All:  $9.249 \pm 0.585$   $\chi^2/\text{NDF}$ : 770.0/51

- sign  $10.305 \pm 0.846$   $\chi^2/\text{NDF}$ : 343.5/25

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: 251.460 $\pm$ 1.680  $\chi^2$ /NDF:1497.5/8

Right Out: 256.055 $\pm$ 2.079  $\chi^2$ /NDF: 6441.1/18

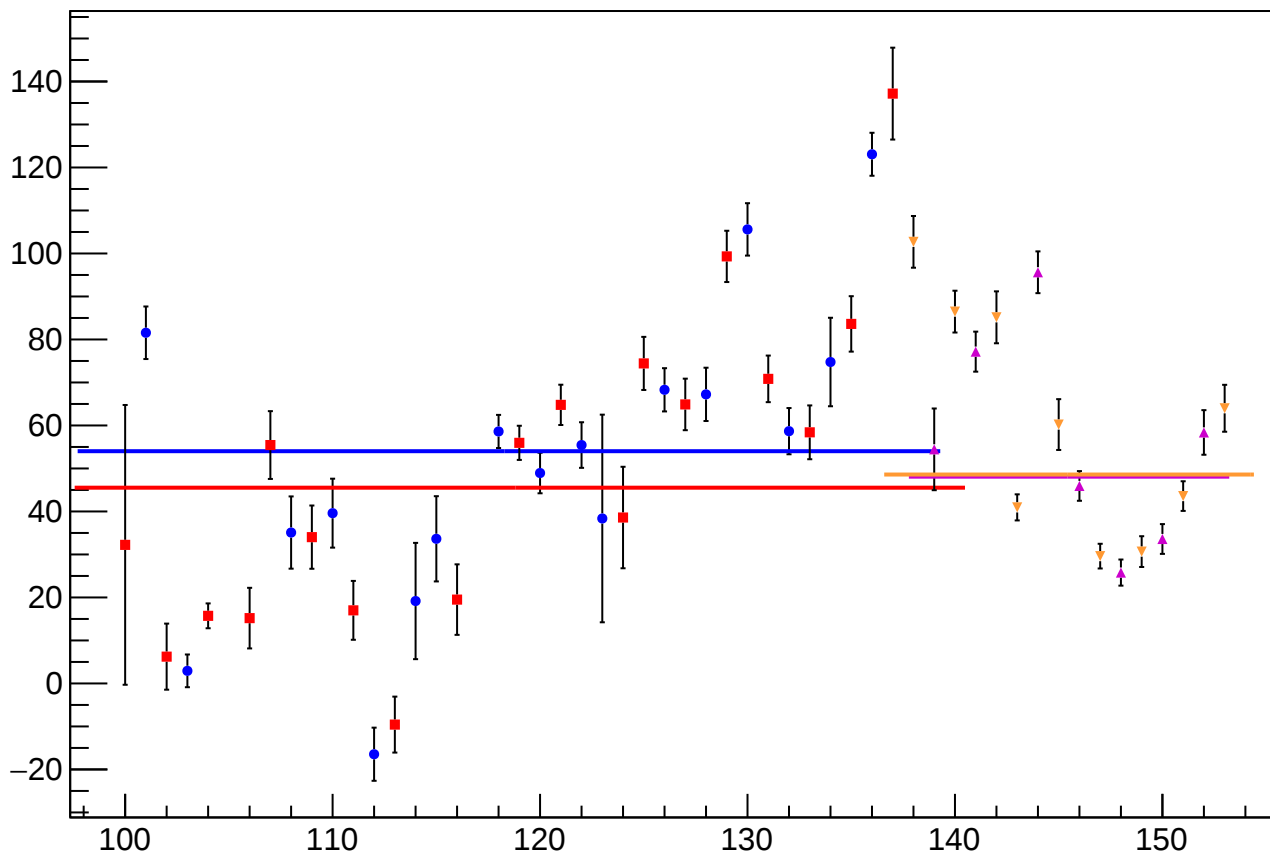
Left In: 284.437 $\pm$ 1.881  $\chi^2$ /NDF:343.9/6

+ sign 259.686 $\pm$ 1.334  $\chi^2$ /NDF: 6665.6/25

All: 265.406 $\pm$ 0.964  $\chi^2$ /NDF: 13591.6/51

- sign 271.658 $\pm$ 1.395  $\chi^2$ /NDF: 6887.5/25

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 54.016 $\pm$ 1.423  $\chi^2/\text{NDF}$ : 632.9/16

Left Out: 48.587 $\pm$ 1.346  $\chi^2/\text{NDF}$ : 267.4/8

Right Out: 45.529 $\pm$ 1.357  $\chi^2/\text{NDF}$ : 526.8/18

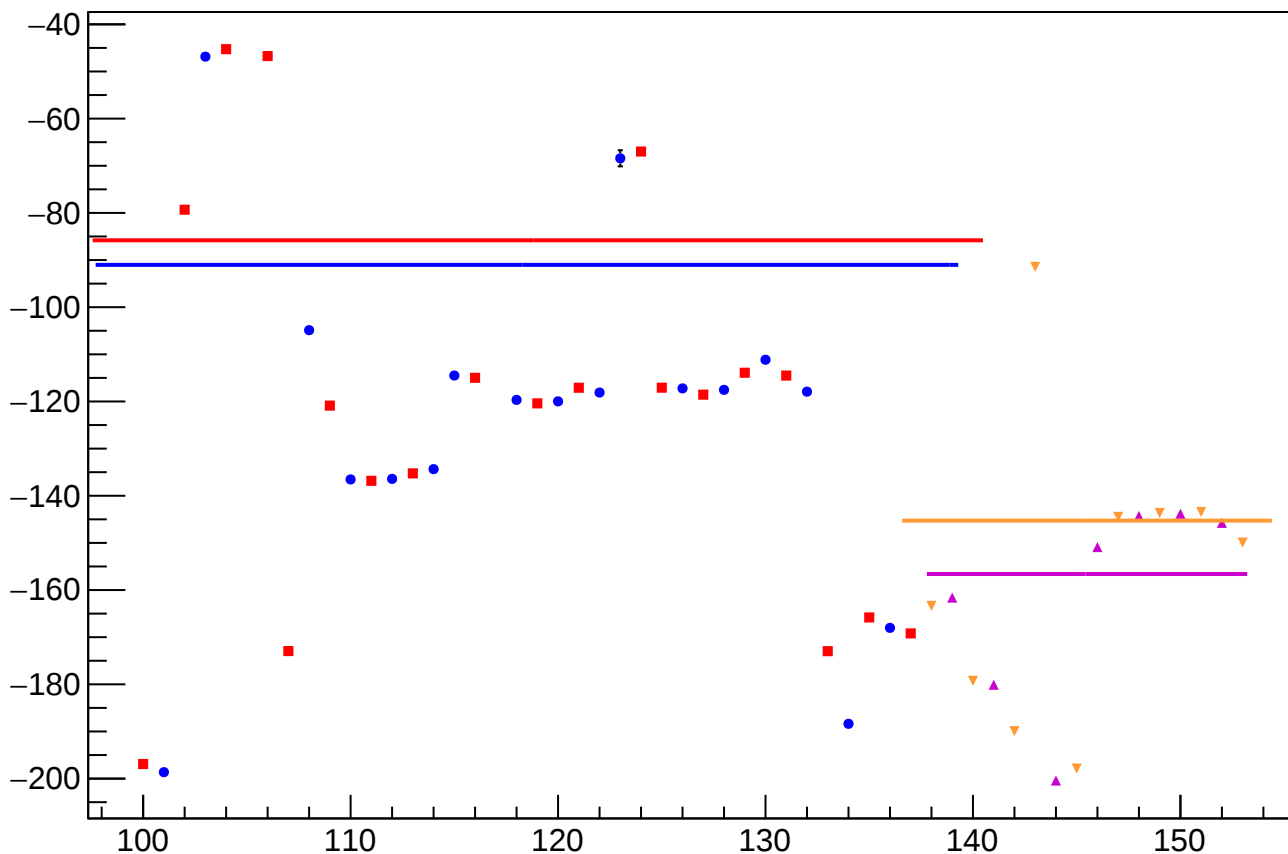
Left In: 48.092 $\pm$ 1.557  $\chi^2/\text{NDF}$ : 211.0/6

+ sign 51.151 $\pm$ 0.978  $\chi^2/\text{NDF}$ : 907.9/25

All: 48.995 $\pm$ 0.707  $\chi^2/\text{NDF}$ : 1657.5/51

- sign 46.636 $\pm$ 1.023  $\chi^2/\text{NDF}$ : 739.4/25

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -91.021 $\pm$ 0.068  $\chi^2$ /NDF: 534258.1/16

Left Out: -145.272 $\pm$ 0.070  $\chi^2$ /NDF: 204982.8/8

Right Out: -85.811 $\pm$ 0.065  $\chi^2$ /NDF: 495868.7/18

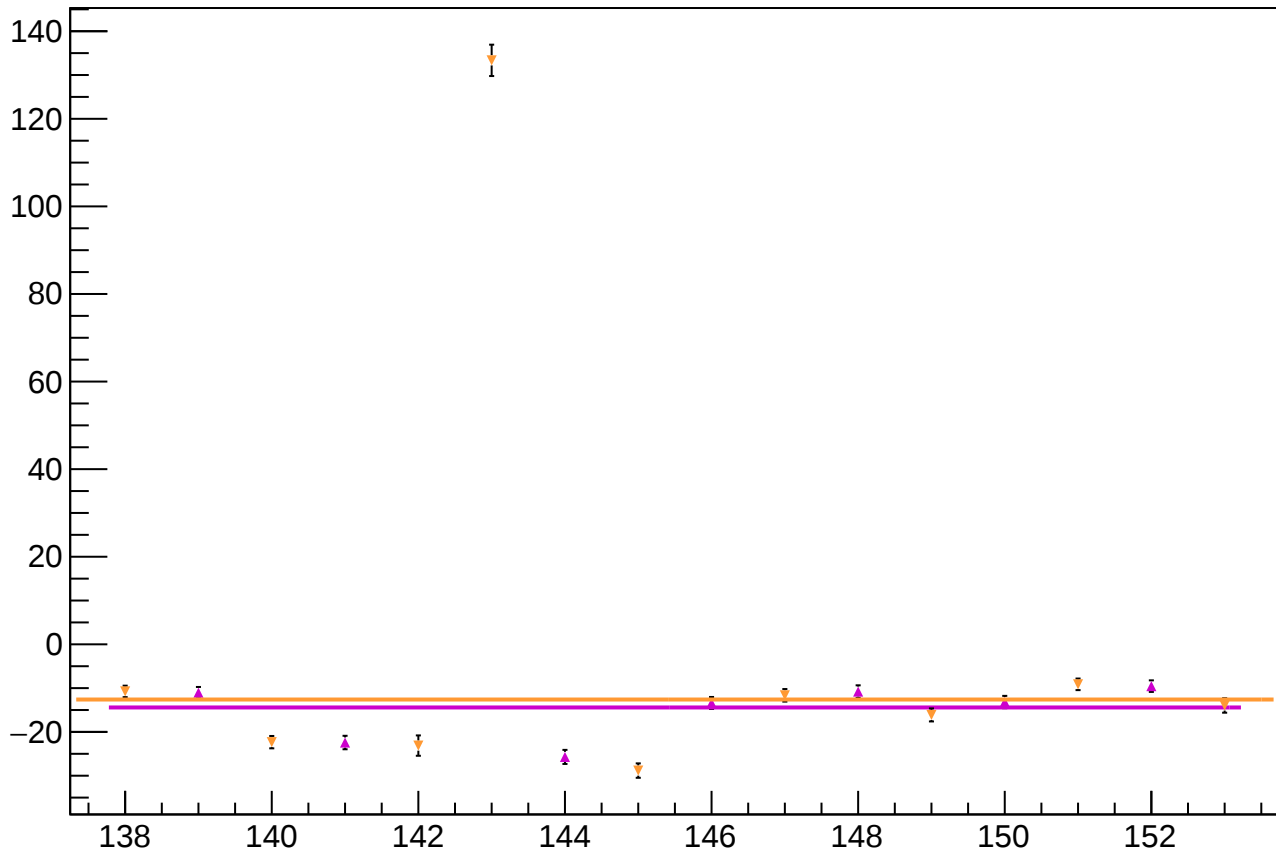
Left In: -156.599 $\pm$ 0.079  $\chi^2$ /NDF: 50225.8/6

+ sign -117.012 $\pm$ 0.049  $\chi^2$ /NDF: 1047964.1/25

All: -115.825 $\pm$ 0.035  $\chi^2$ /NDF: 2076863.3/51

- sign -114.572 $\pm$ 0.050  $\chi^2$ /NDF: 1027681.7/25

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: -12.603+/-0.528  $\chi^2/\text{NDF}$ : 1841.5/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

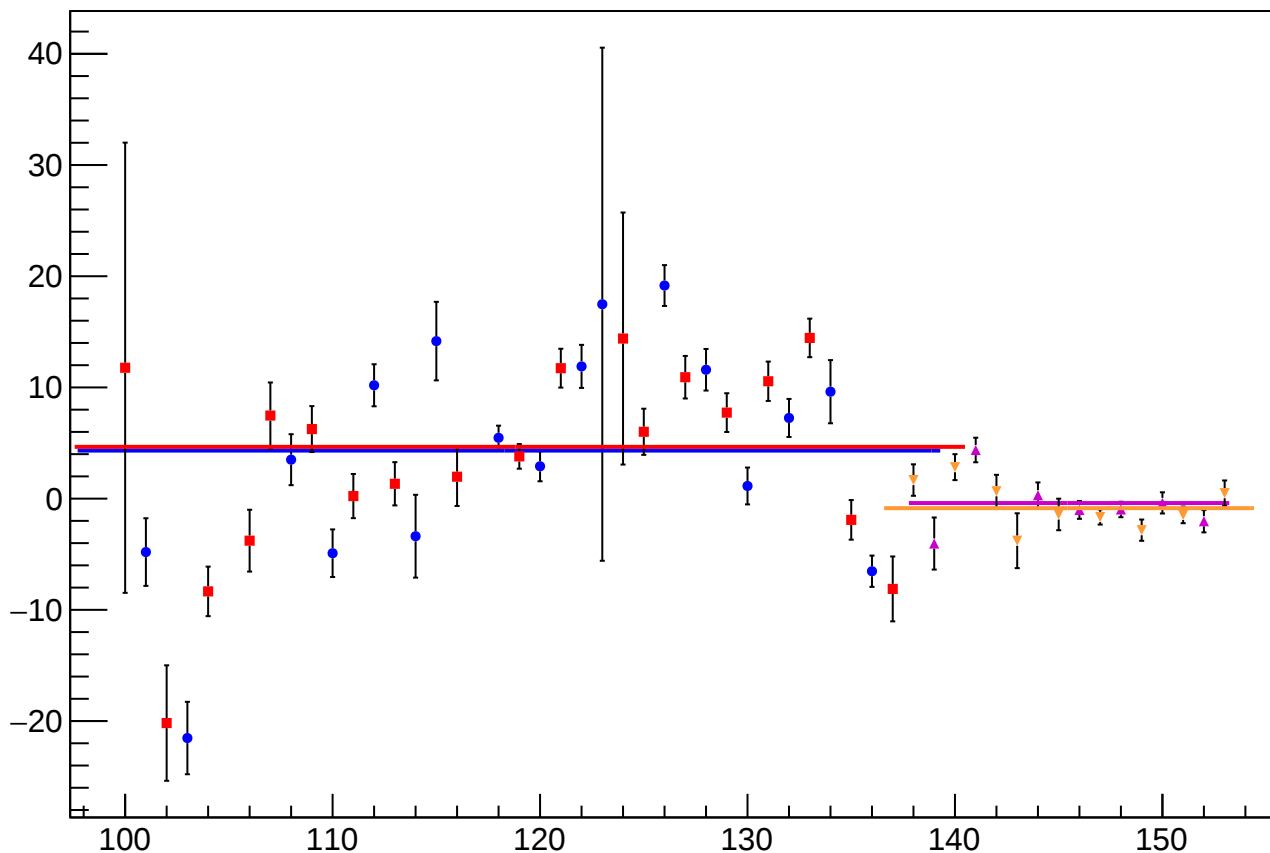
Left In: -14.419+/-0.534  $\chi^2/\text{NDF}$ : 104.6/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.500+/-0.375  $\chi^2/\text{NDF}$ : 1951.9/15

- 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:  $-0.857 \pm 0.350$   $\chi^2/\text{NDF}$ : 23.5/8

Right Out:  $4.657 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.5/18

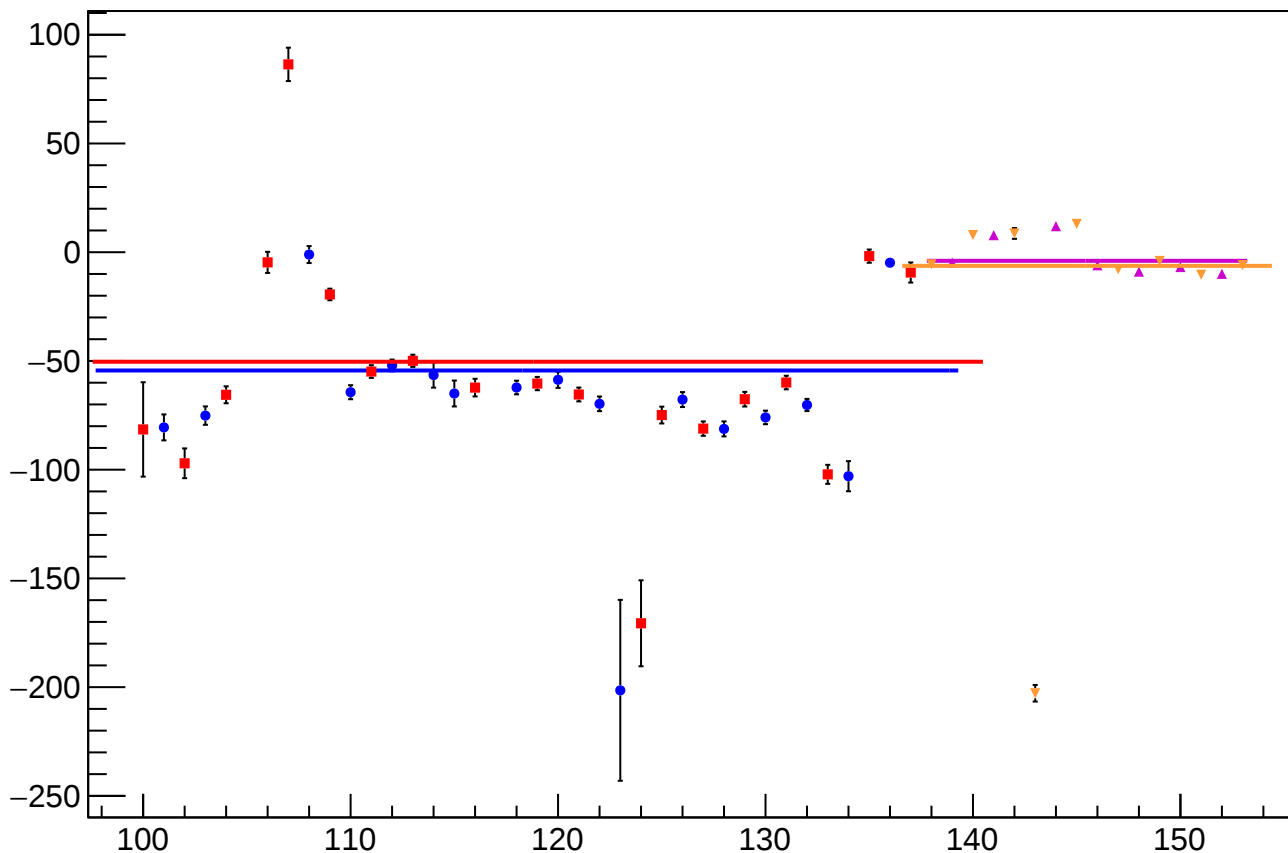
Left In:  $-0.397 \pm 0.366$   $\chi^2/\text{NDF}$ : 25.4/6

+ sign  $1.016 \pm 0.280$   $\chi^2/\text{NDF}$ : 382.9/25

All:  $1.244 \pm 0.201$   $\chi^2/\text{NDF}$ : 665.5/51

- sign  $1.489 \pm 0.289$   $\chi^2/\text{NDF}$ : 281.3/25

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:  $-6.268 \pm 0.525$   $\chi^2/\text{NDF}$ : 2913.9/8

Right Out:  $-50.364 \pm 0.858$   $\chi^2/\text{NDF}$ : 1321.3/18

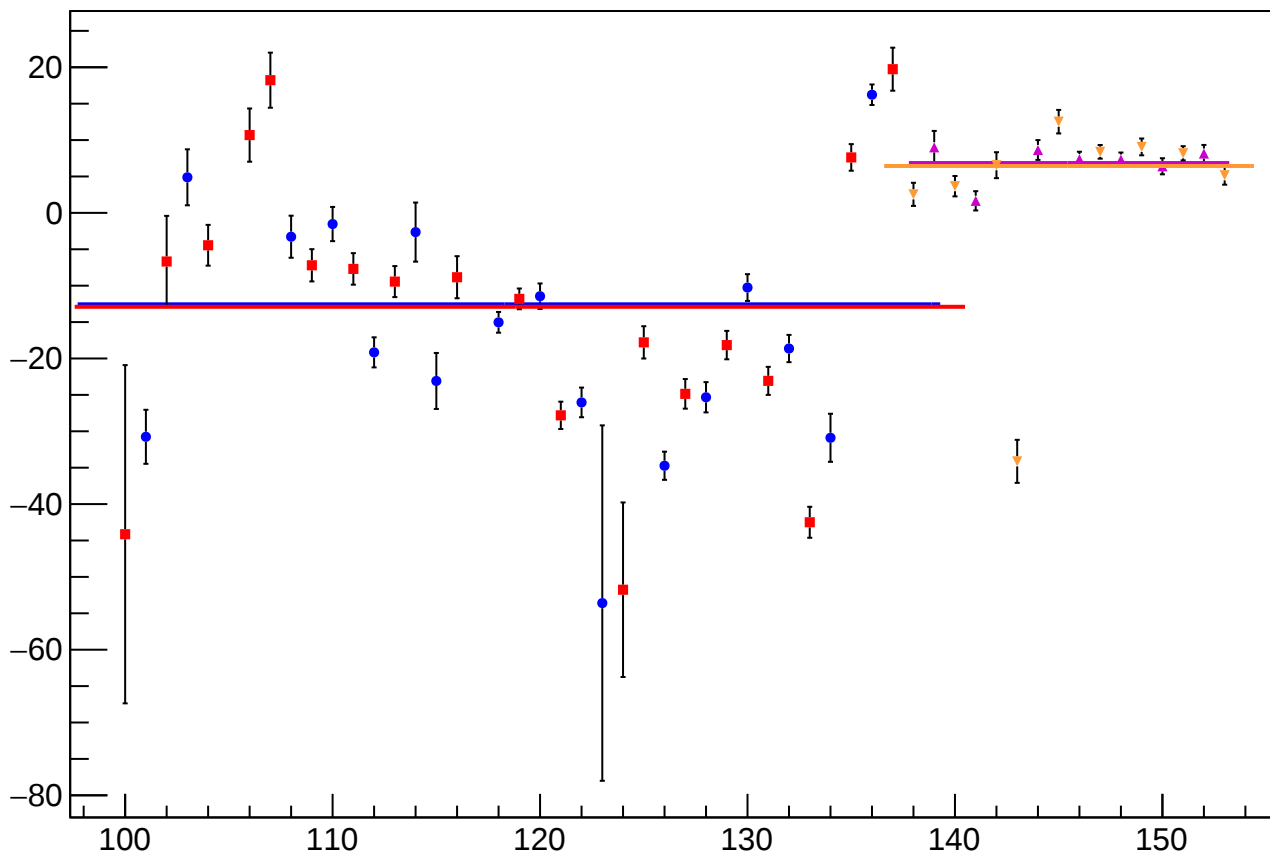
Left In:  $-3.948 \pm 0.530$   $\chi^2/\text{NDF}$ : 181.3/6

+ sign  $-19.229 \pm 0.449$   $\chi^2/\text{NDF}$ : 6191.6/25

All:  $-18.011 \pm 0.318$   $\chi^2/\text{NDF}$ : 9828.4/51

- sign  $-16.781 \pm 0.451$   $\chi^2/\text{NDF}$ : 3622.0/25

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.561 \pm 0.531$   $\chi^2/\text{NDF}$ : 779.5/16

Left Out:  $6.442 \pm 0.436$   $\chi^2/\text{NDF}$ : 226.1/8

Right Out:  $-12.898 \pm 0.538$   $\chi^2/\text{NDF}$ : 728.4/18

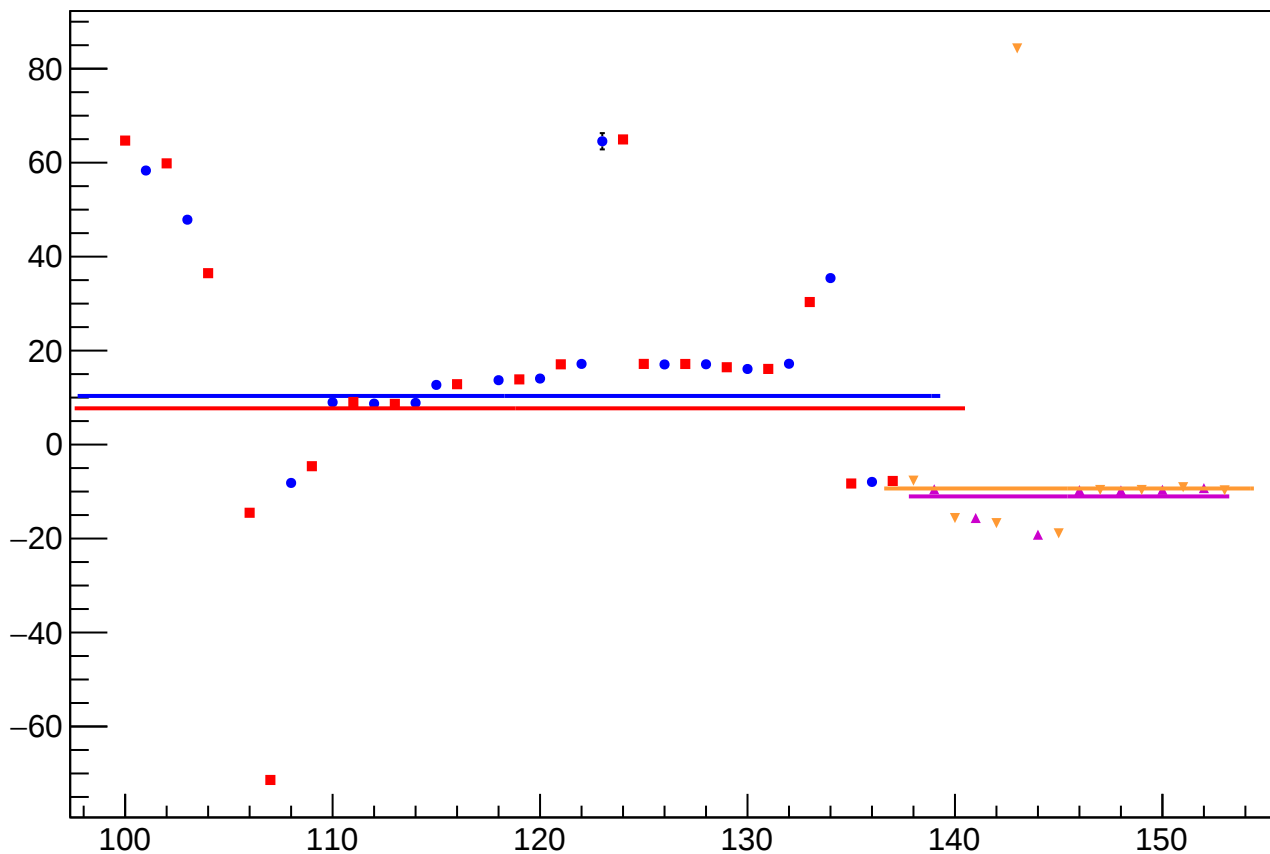
Left In:  $6.845 \pm 0.454$   $\chi^2/\text{NDF}$ : 19.9/6

+ sign  $-1.208 \pm 0.337$   $\chi^2/\text{NDF}$ : 1769.4/25

All:  $-1.285 \pm 0.242$   $\chi^2/\text{NDF}$ : 3304.0/51

- sign  $-1.366 \pm 0.347$   $\chi^2/\text{NDF}$ : 1534.5/25

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 10.350+/-0.031  $\chi^2/\text{NDF}$ : 380878.9/16

Left Out: -9.345+/-0.022  $\chi^2/\text{NDF}$ : 407117.3/8

Right Out: 7.715+/-0.031  $\chi^2/\text{NDF}$ : 545032.1/18

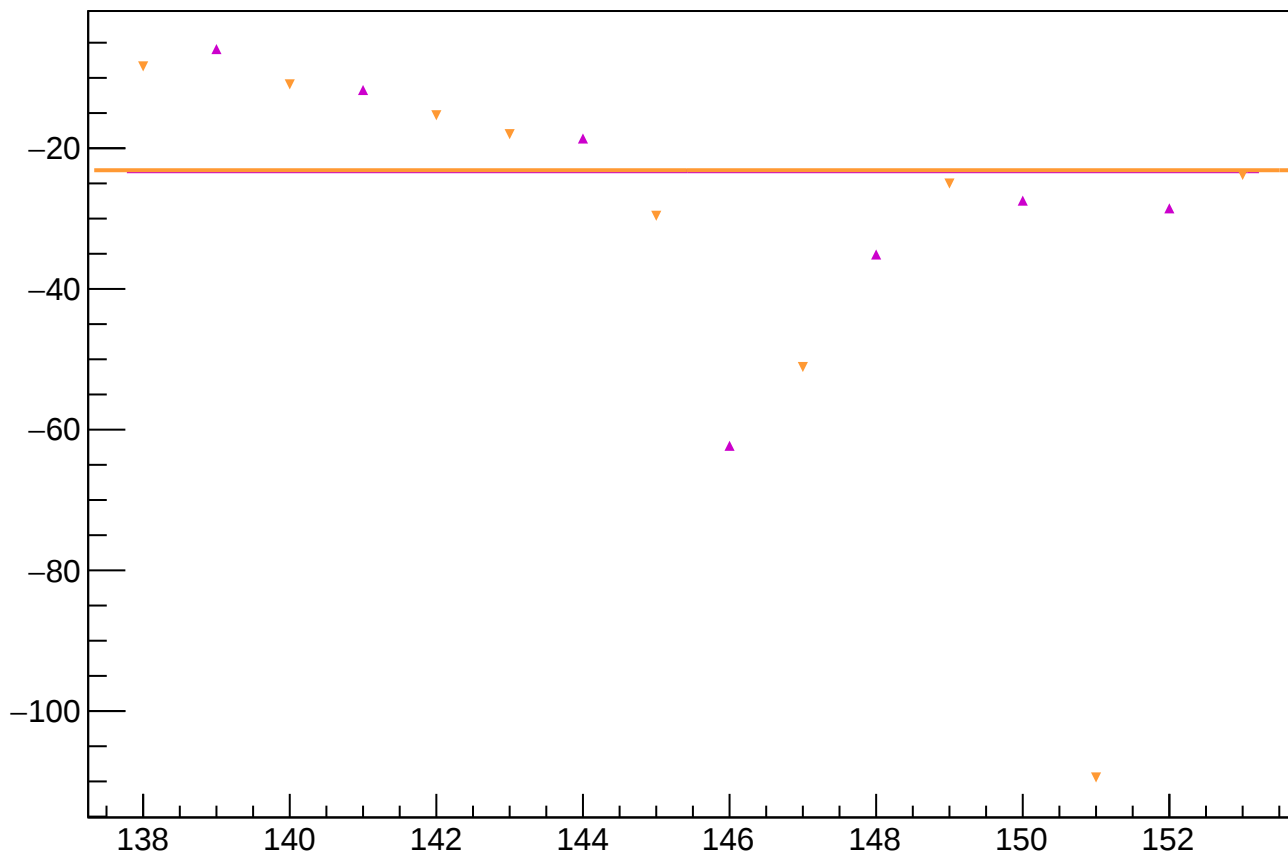
Left In: -11.033+/-0.022  $\chi^2/\text{NDF}$ : 20360.3/6

+ sign -2.743+/-0.018  $\chi^2/\text{NDF}$ : 1063752.4/25

All: -3.799+/-0.013  $\chi^2/\text{NDF}$ : 1877934.8/51

- sign -4.880+/-0.018  $\chi^2/\text{NDF}$ : 806984.3/25

# 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: -23.128+/-0.092  $\chi^2/\text{NDF}$ : 48893.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

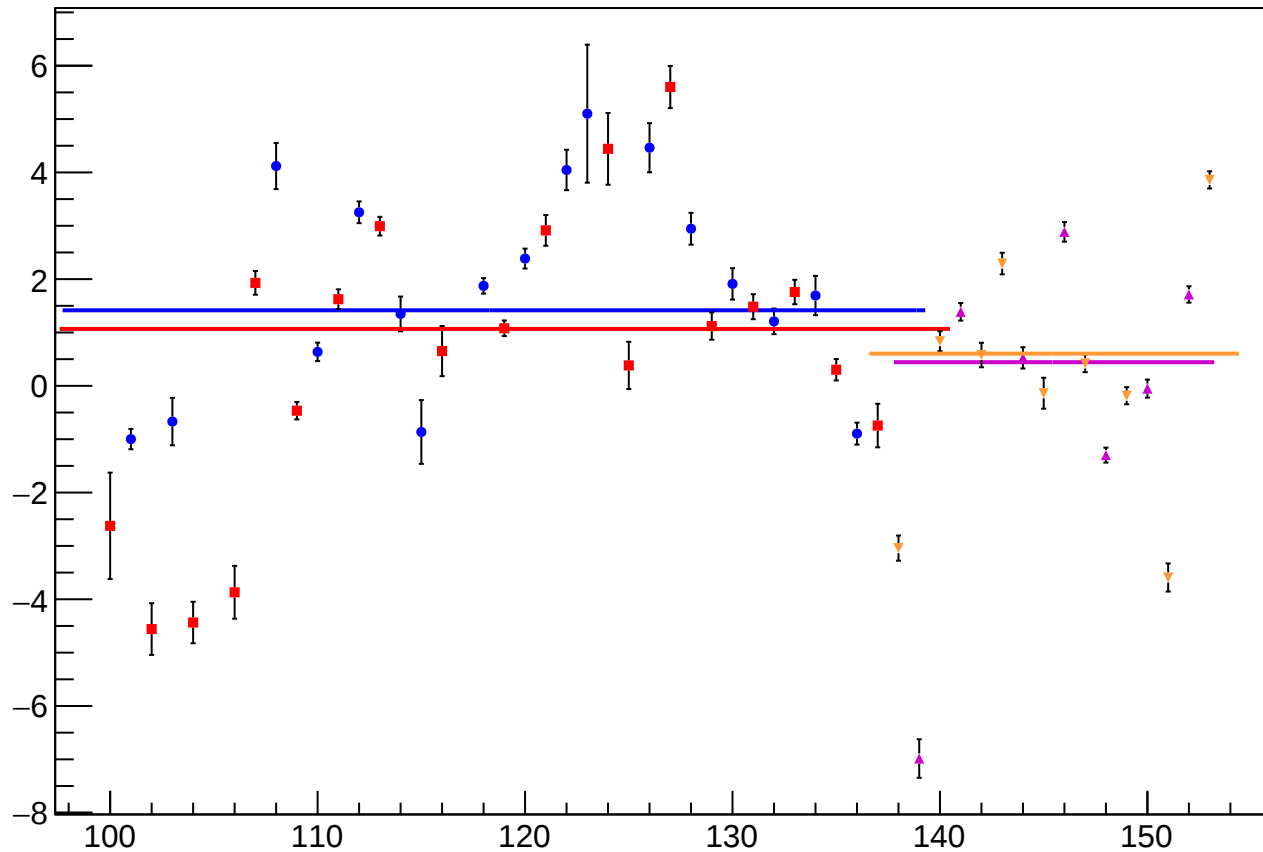
Left In: -23.266+/-0.093  $\chi^2/\text{NDF}$ : 28452.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.196+/-0.065  $\chi^2/\text{NDF}$ : 77347.0/15

- 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:  $0.604 \pm 0.066$   $\chi^2/\text{NDF}$ : 1003.8/8

Right Out:  $1.067 \pm 0.058$   $\chi^2/\text{NDF}$ : 929.9/18

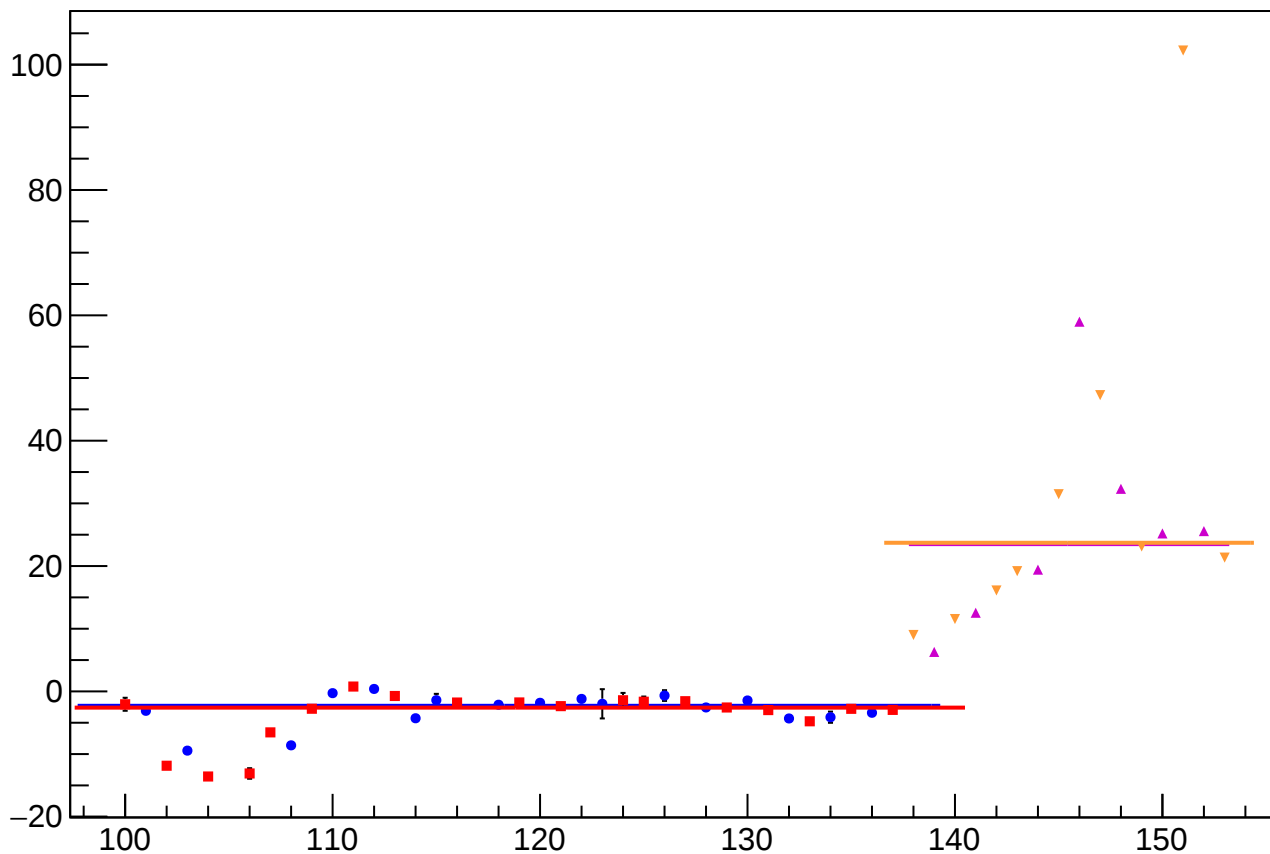
Left In:  $0.444 \pm 0.066$   $\chi^2/\text{NDF}$ : 866.2/6

+ sign  $1.040 \pm 0.045$   $\chi^2/\text{NDF}$ : 1716.6/25

All:  $0.915 \pm 0.031$   $\chi^2/\text{NDF}$ : 3578.1/51

- sign  $0.796 \pm 0.044$   $\chi^2/\text{NDF}$ : 1846.2/25

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.299 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.0/16

Left Out:  $23.715 \pm 0.093$   $\chi^2/\text{NDF}$ : 43595.1/8

Right Out:  $-2.589 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.9/18

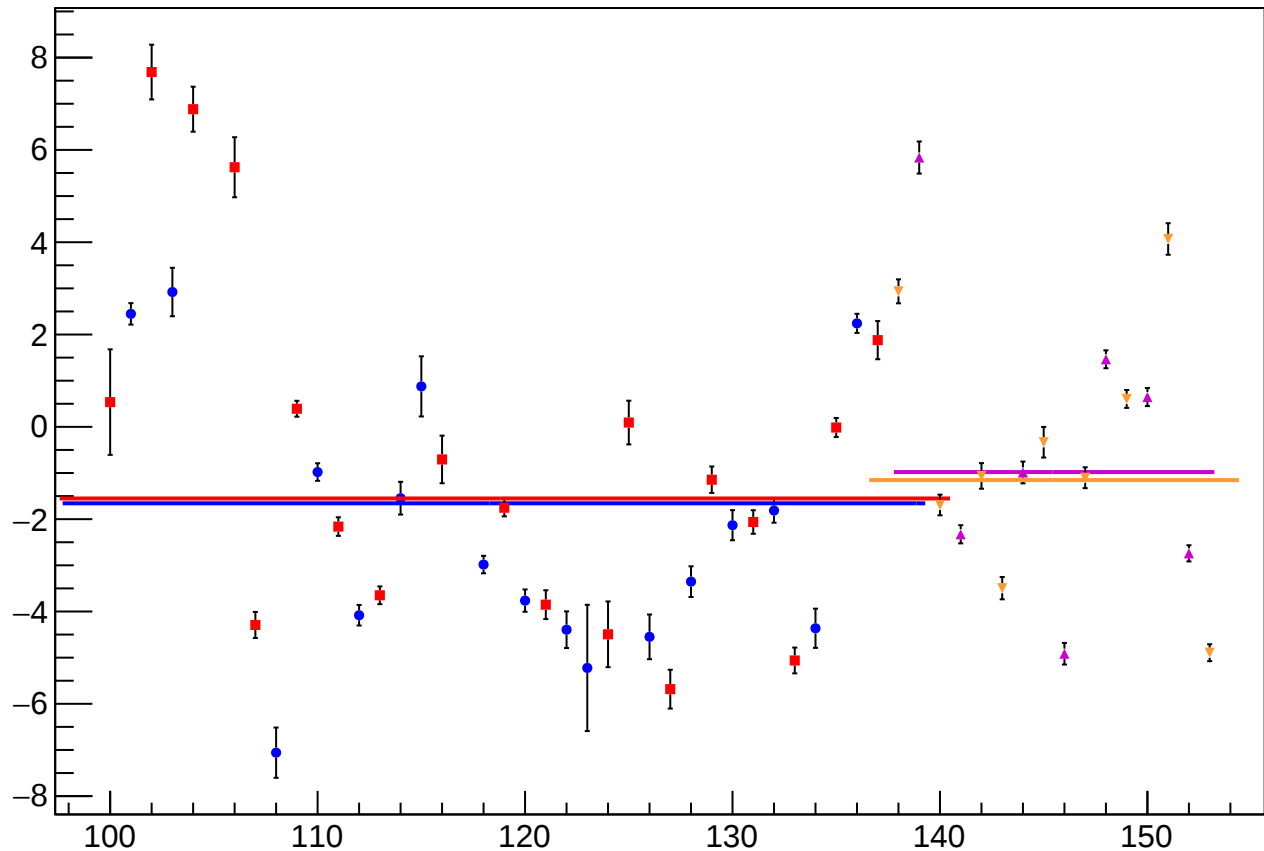
Left In:  $23.499 \pm 0.093$   $\chi^2/\text{NDF}$ : 23833.3/6

+ sign  $12.993 \pm 0.071$   $\chi^2/\text{NDF}$ : 76416.3/25

All:  $12.078 \pm 0.049$   $\chi^2/\text{NDF}$ : 138421.8/51

- sign  $11.249 \pm 0.068$   $\chi^2/\text{NDF}$ : 61690.5/25

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.656 \pm 0.070$   $\chi^2/\text{NDF}$ : 1271.1/16

Left Out:  $-1.153 \pm 0.079$   $\chi^2/\text{NDF}$ : 1085.4/8

Right Out:  $-1.551 \pm 0.066$   $\chi^2/\text{NDF}$ : 1488.1/18

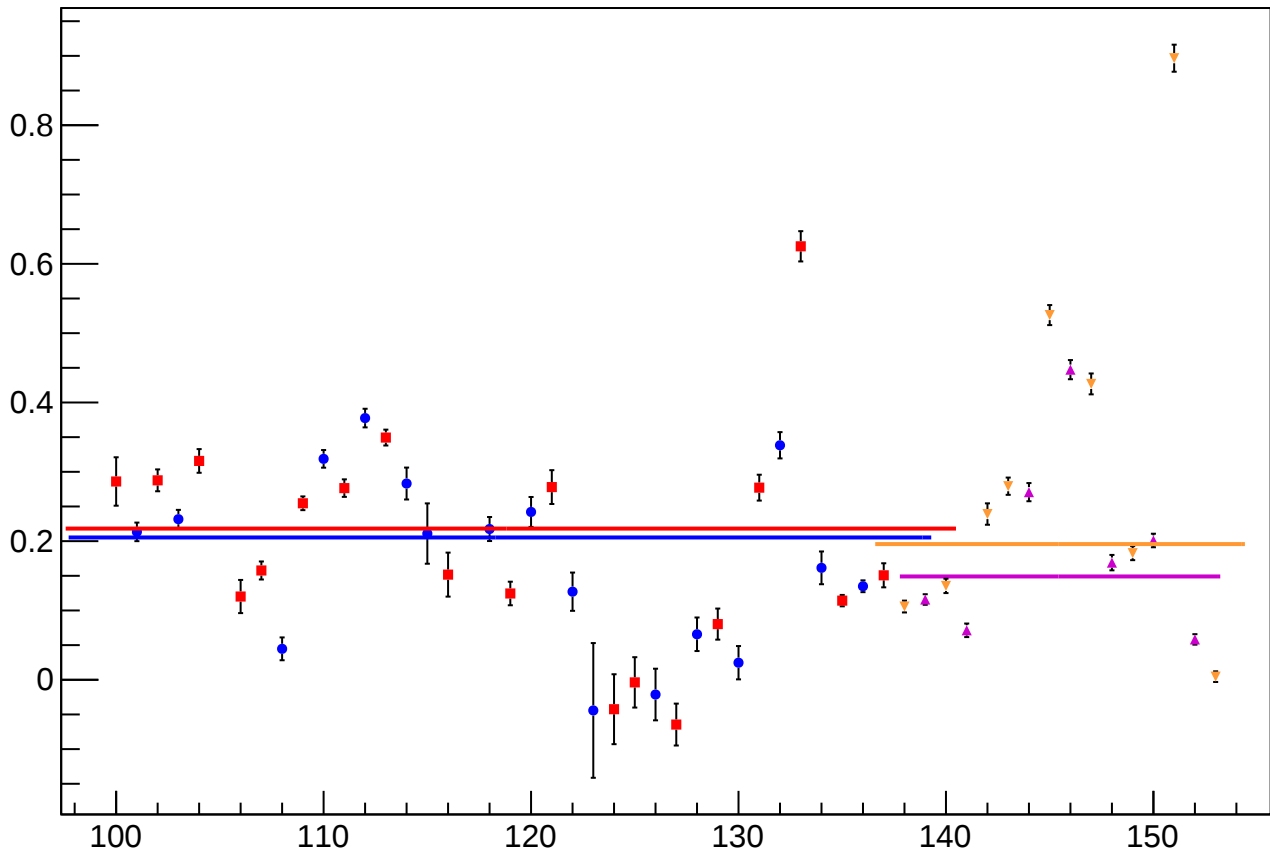
Left In:  $-0.979 \pm 0.080$   $\chi^2/\text{NDF}$ : 1041.1/6

+ sign  $-1.435 \pm 0.053$   $\chi^2/\text{NDF}$ : 2379.0/25

All:  $-1.376 \pm 0.037$   $\chi^2/\text{NDF}$ : 4941.0/51

- sign  $-1.322 \pm 0.051$   $\chi^2/\text{NDF}$ : 2559.7/25

# 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:  $0.196 \pm 0.004$   $\chi^2/\text{NDF}$ : 2865.1/8

Right Out:  $0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 1023.2/18

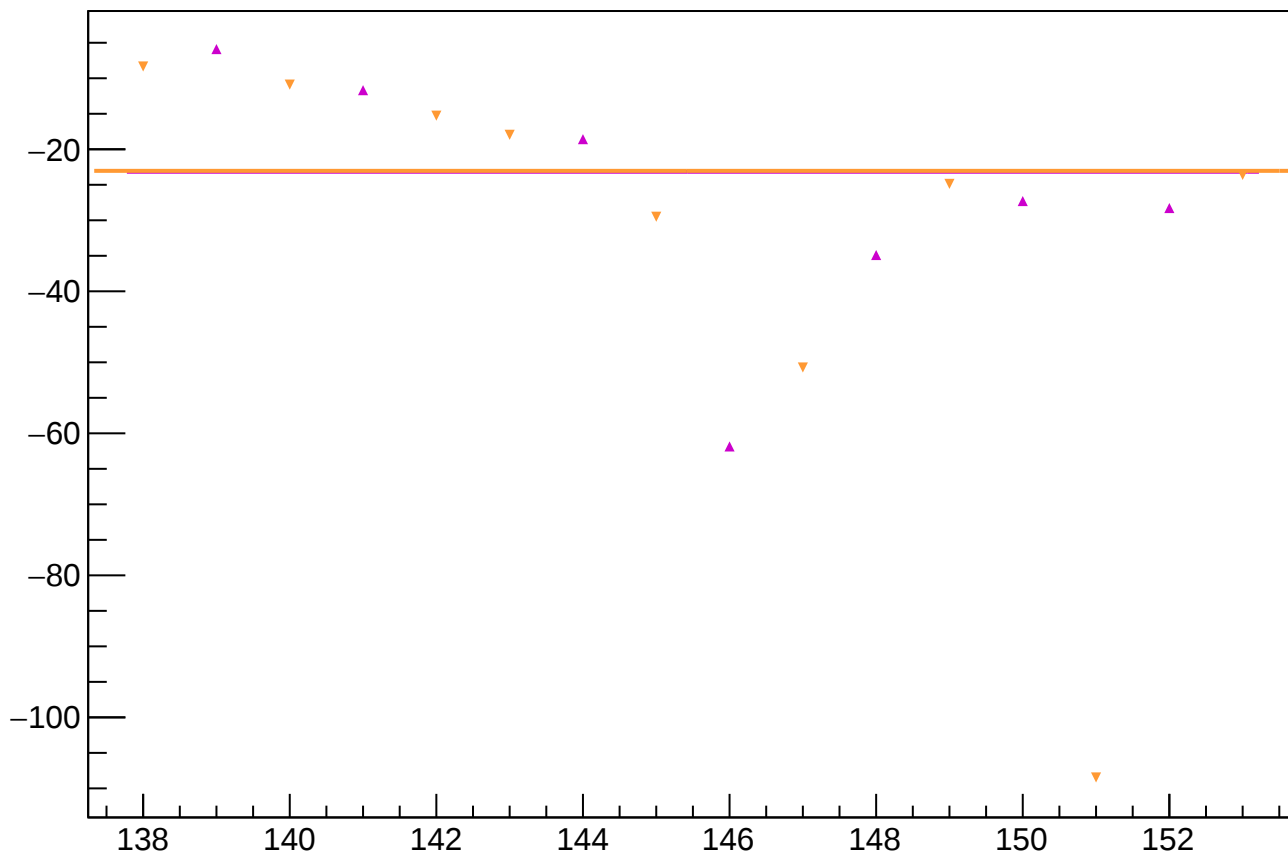
Left In:  $0.149 \pm 0.004$   $\chi^2/\text{NDF}$ : 809.5/6

+ sign  $0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 3488.5/25

All:  $0.191 \pm 0.002$   $\chi^2/\text{NDF}$ : 5517.4/51

- sign  $0.183 \pm 0.003$   $\chi^2/\text{NDF}$ : 2009.4/25

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.037+/-0.091  $\chi^2/\text{NDF}$ : 48774.3/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

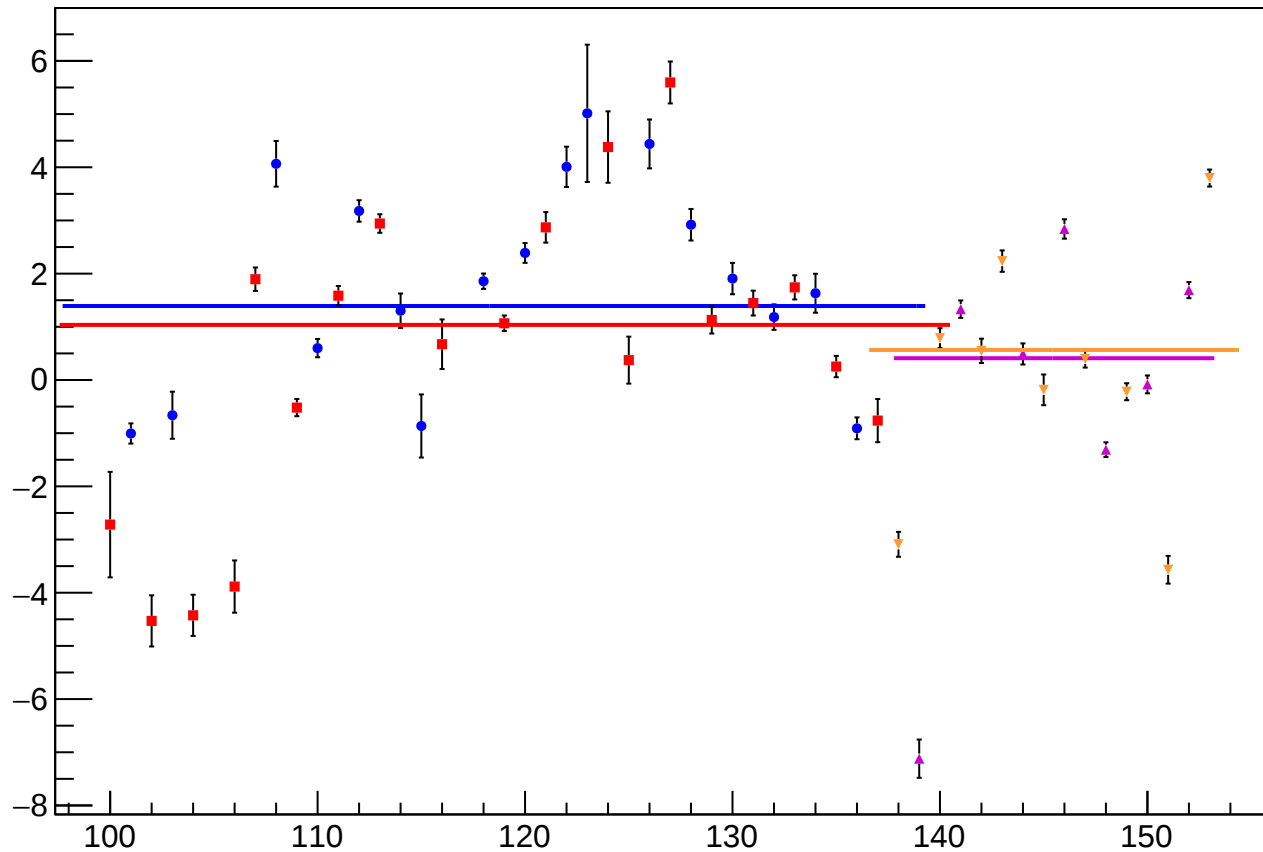
Left In: -23.162+/-0.093  $\chi^2/\text{NDF}$ : 28355.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.099+/-0.065  $\chi^2/\text{NDF}$ : 77130.8/15

- 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:  $0.565 \pm 0.065$   $\chi^2/\text{NDF}$ : 1003.6/8

Right Out:  $1.036 \pm 0.058$   $\chi^2/\text{NDF}$ : 934.2/18

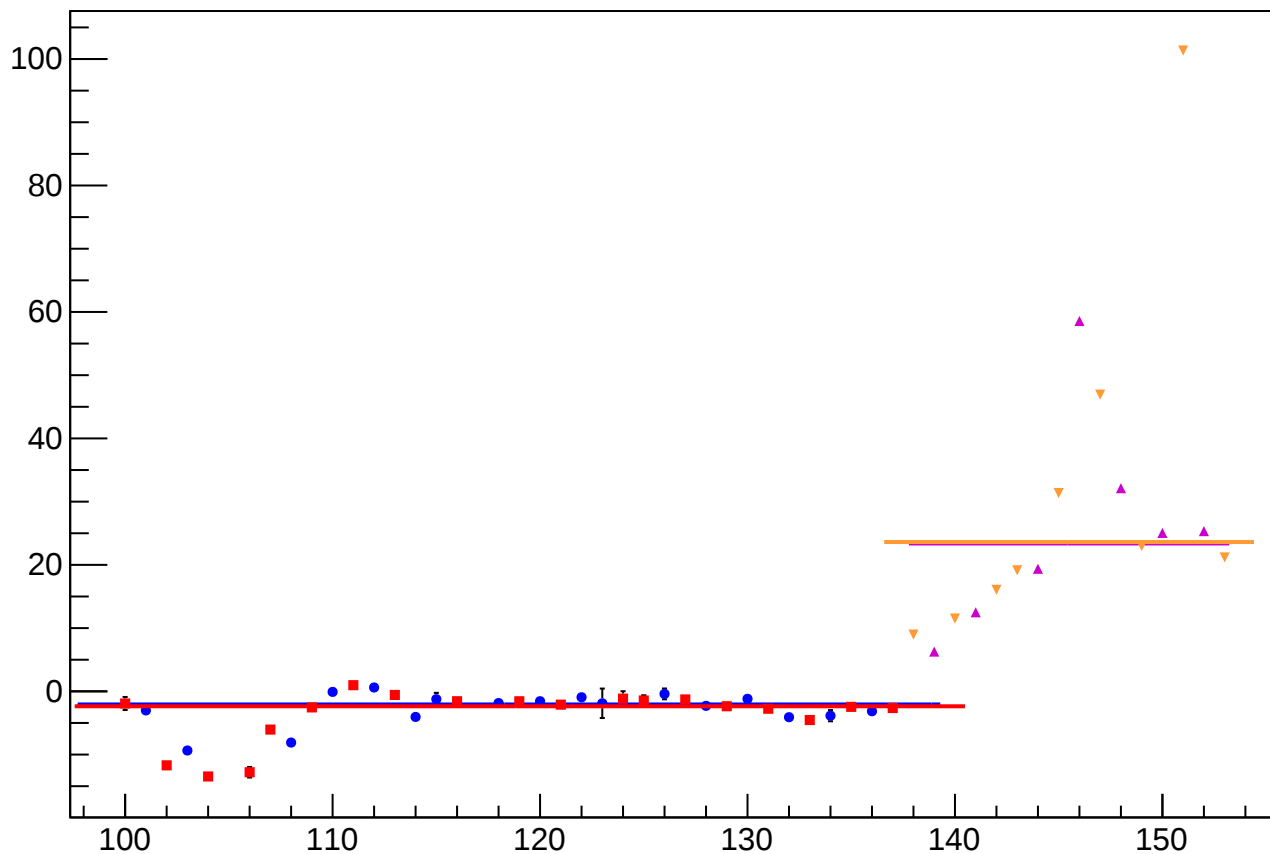
Left In:  $0.410 \pm 0.066$   $\chi^2/\text{NDF}$ : 882.2/6

+ sign  $1.007 \pm 0.045$   $\chi^2/\text{NDF}$ : 1718.1/25

All:  $0.882 \pm 0.031$   $\chi^2/\text{NDF}$ : 3601.2/51

- sign  $0.763 \pm 0.043$   $\chi^2/\text{NDF}$ : 1867.6/25

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.075 \pm 0.110$   $\chi^2/\text{NDF}$ : 442.3/16

Left Out:  $23.614 \pm 0.092$   $\chi^2/\text{NDF}$ : 43489.1/8

Right Out:  $-2.362 \pm 0.098$   $\chi^2/\text{NDF}$ : 893.4/18

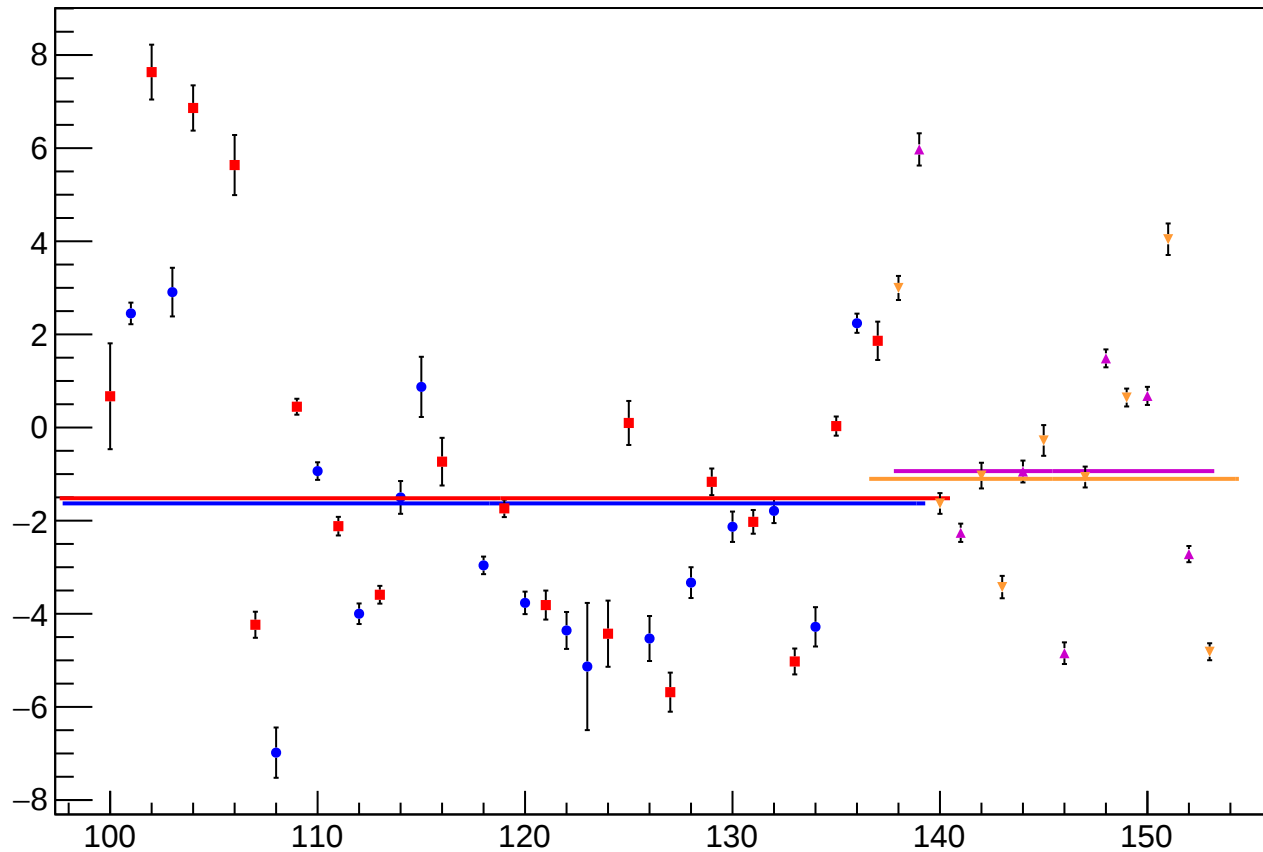
Left In:  $23.385 \pm 0.092$   $\chi^2/\text{NDF}$ : 23751.9/6

+ sign  $13.037 \pm 0.071$   $\chi^2/\text{NDF}$ : 75851.0/25

All:  $12.130 \pm 0.049$   $\chi^2/\text{NDF}$ : 137237.8/51

- sign  $11.308 \pm 0.067$   $\chi^2/\text{NDF}$ : 61073.4/25

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 1266.4/16

Left Out:  $-1.102 \pm 0.079$   $\chi^2/\text{NDF}$ : 1085.8/8

Right Out:  $-1.519 \pm 0.065$   $\chi^2/\text{NDF}$ : 1491.9/18

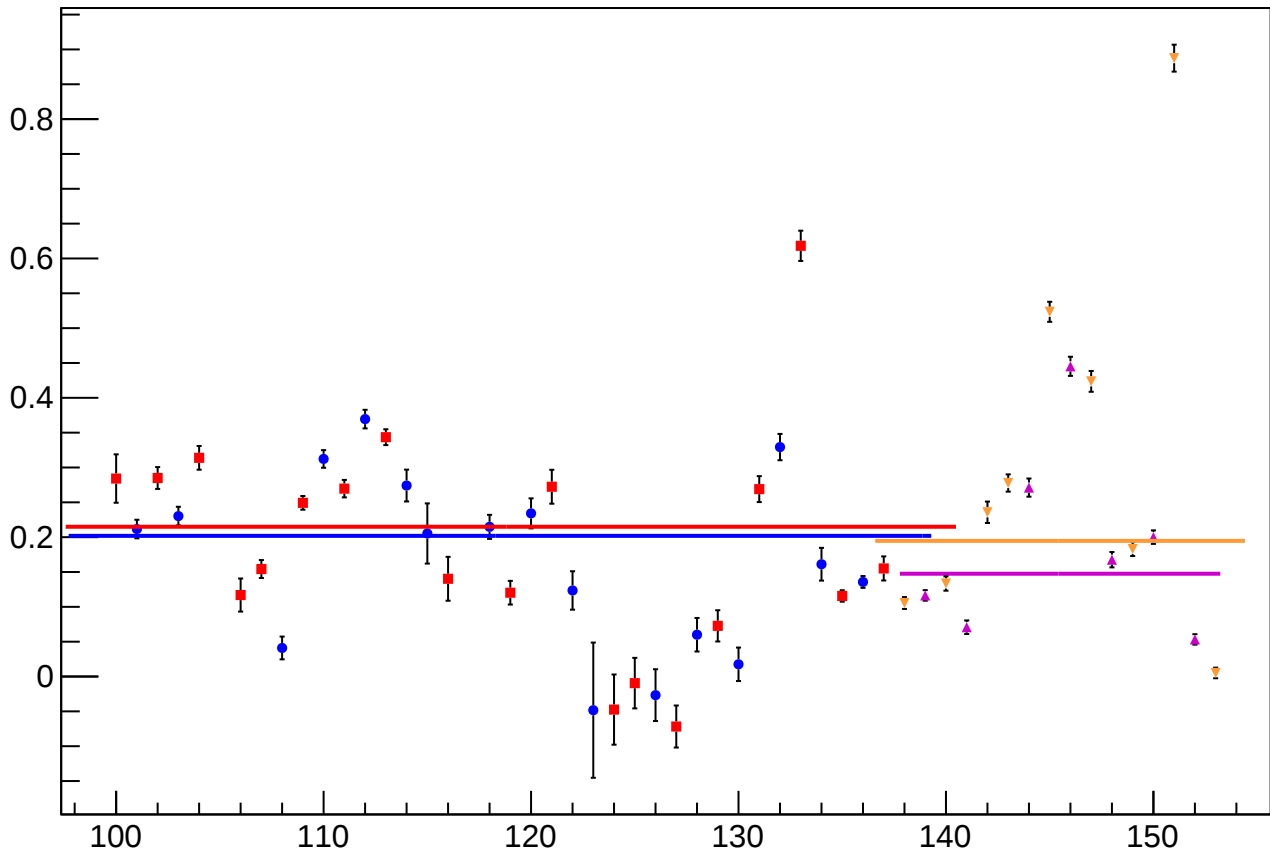
Left In:  $-0.936 \pm 0.080$   $\chi^2/\text{NDF}$ : 1058.5/6

+ sign  $-1.397 \pm 0.052$   $\chi^2/\text{NDF}$ : 2377.1/25

All:  $-1.339 \pm 0.036$   $\chi^2/\text{NDF}$ : 4961.8/51

- sign  $-1.285 \pm 0.051$   $\chi^2/\text{NDF}$ : 2582.4/25

# 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:  $0.195 \pm 0.004$   $\chi^2/\text{NDF}$ : 2855.2/8

Right Out:  $0.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 1005.6/18

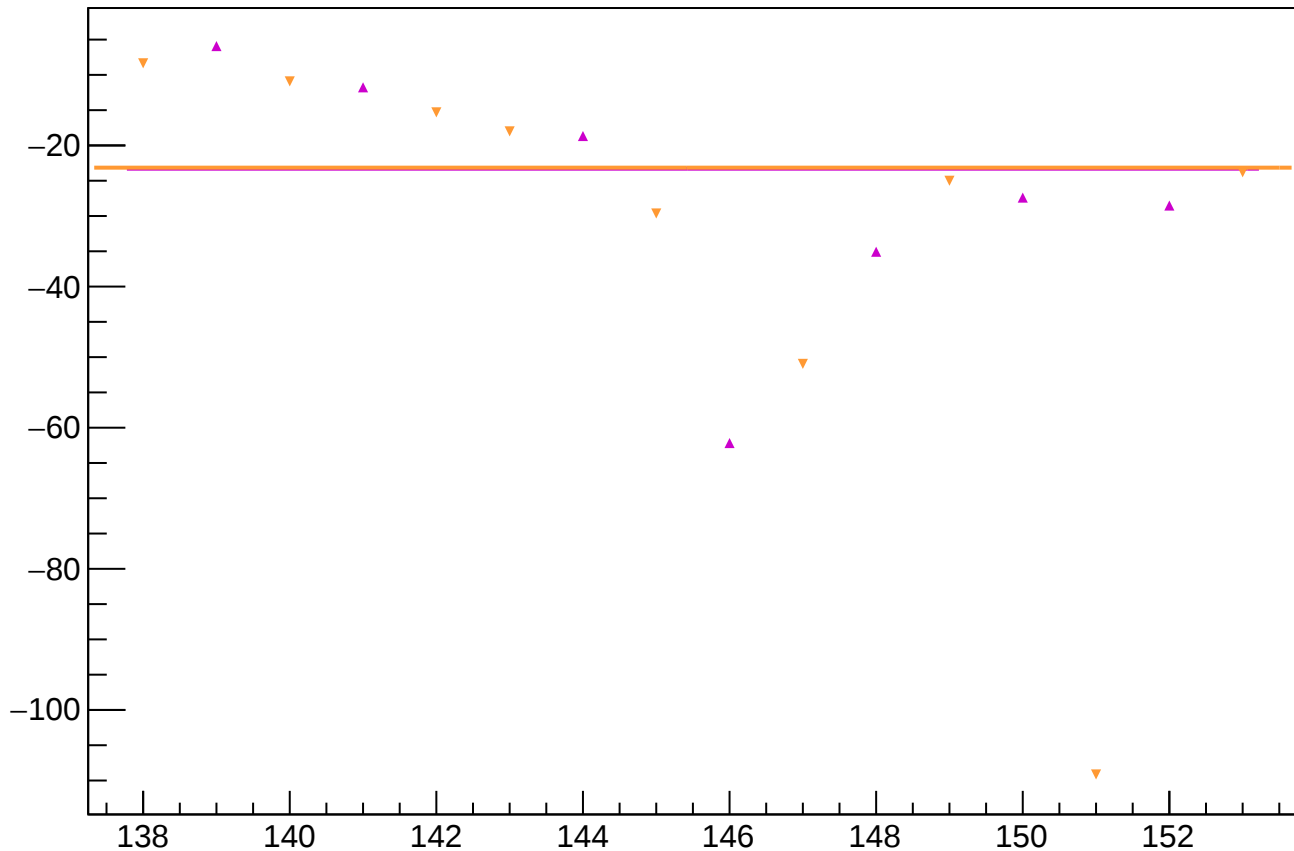
Left In:  $0.148 \pm 0.004$   $\chi^2/\text{NDF}$ : 830.1/6

+ sign  $0.198 \pm 0.003$   $\chi^2/\text{NDF}$ : 3461.5/25

All:  $0.189 \pm 0.002$   $\chi^2/\text{NDF}$ : 5487.7/51

- sign  $0.181 \pm 0.003$   $\chi^2/\text{NDF}$ : 2006.0/25

# 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: -23.148+/-0.092  $\chi^2/\text{NDF}$ : 48878.4/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

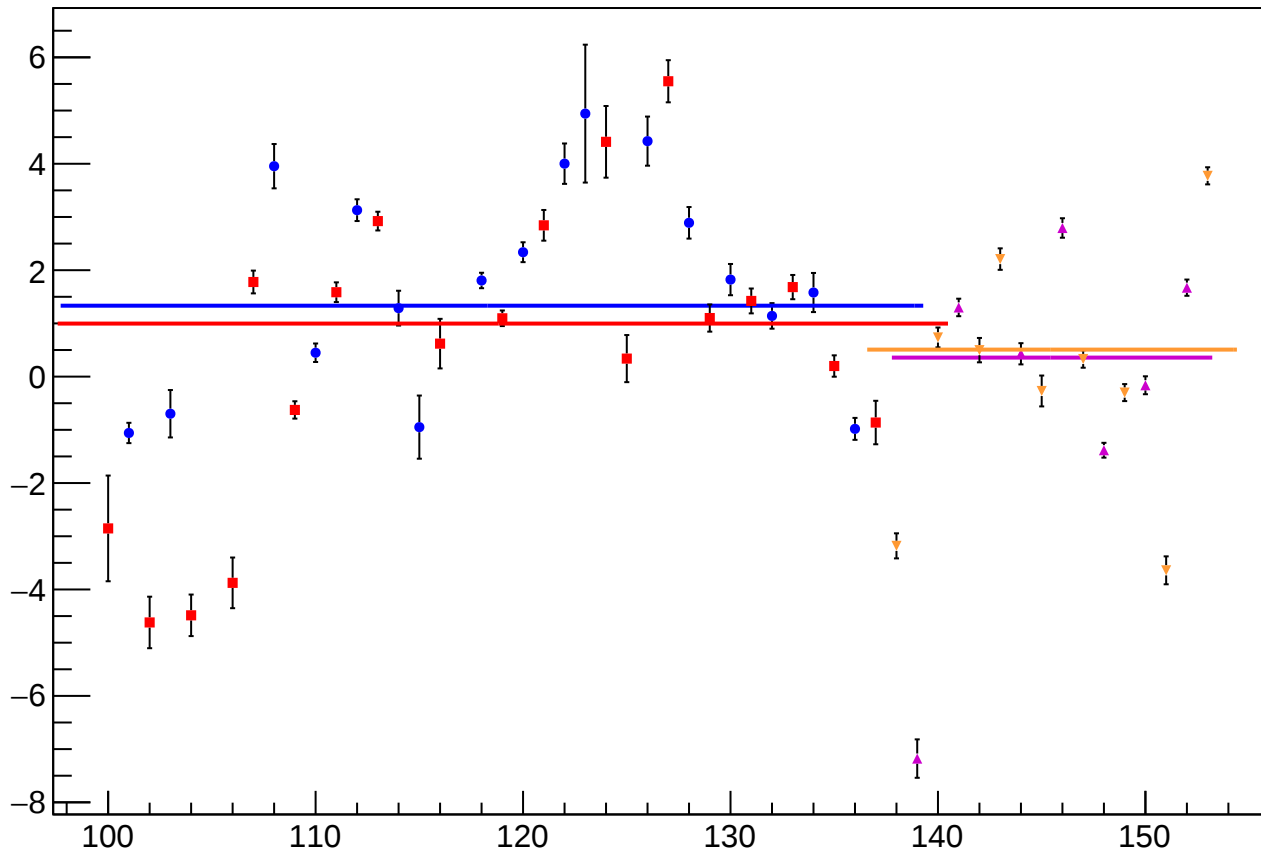
Left In: -23.290+/-0.093  $\chi^2/\text{NDF}$ : 28400.5/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.218+/-0.065  $\chi^2/\text{NDF}$ : 77280.1/15

- 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: 0.508 $\pm$ 0.066  $\chi^2/\text{NDF}$ :1013.0/8

Right Out: 0.997 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 945.3/18

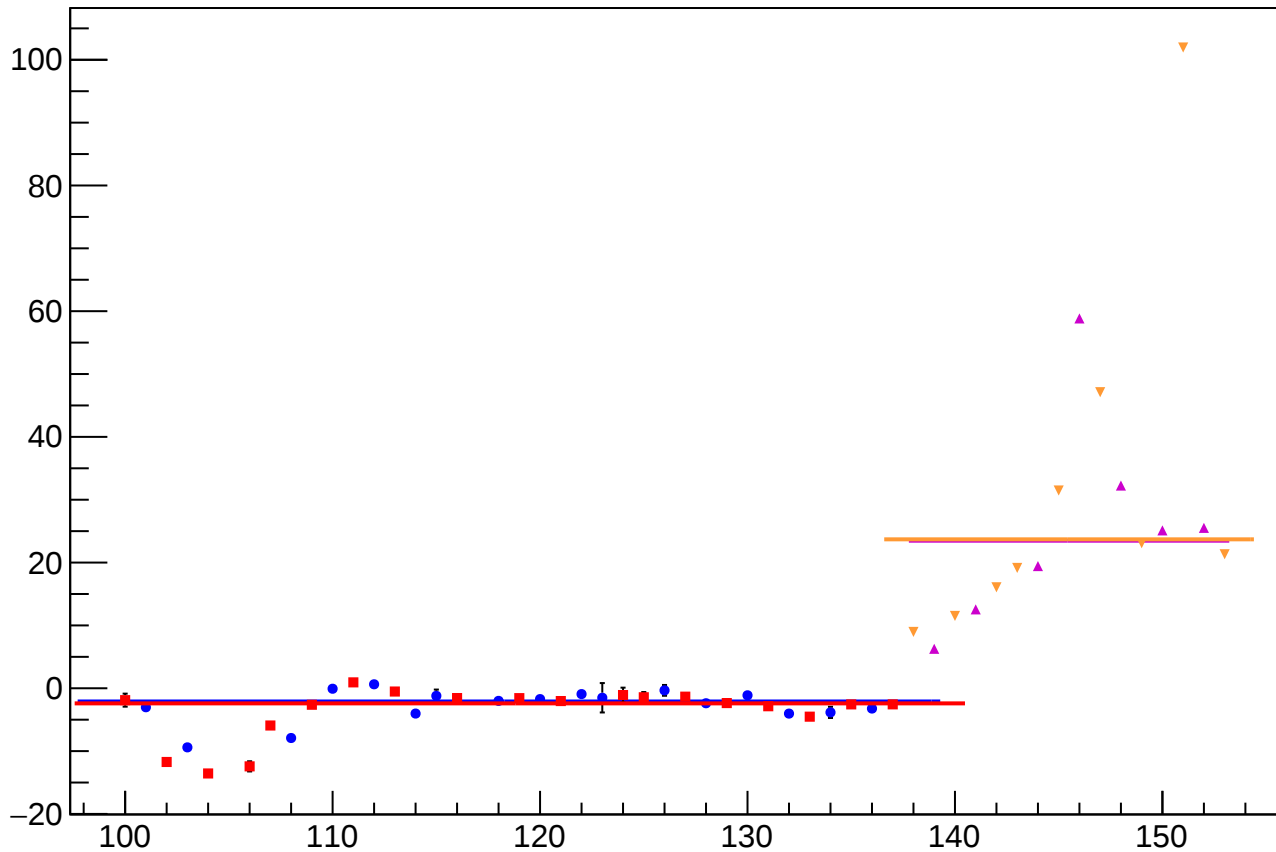
Left In: 0.357 $\pm$ 0.066  $\chi^2/\text{NDF}$ :885.2/6

+ sign 0.950 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 1732.1/25

All: 0.831 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 3629.3/51

- sign 0.718 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 1883.5/25

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.104 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.3/16

Left Out:  $23.697 \pm 0.093$   $\chi^2/\text{NDF}$ : 43580.6/8

Right Out:  $-2.405 \pm 0.099$   $\chi^2/\text{NDF}$ : 887.1/18

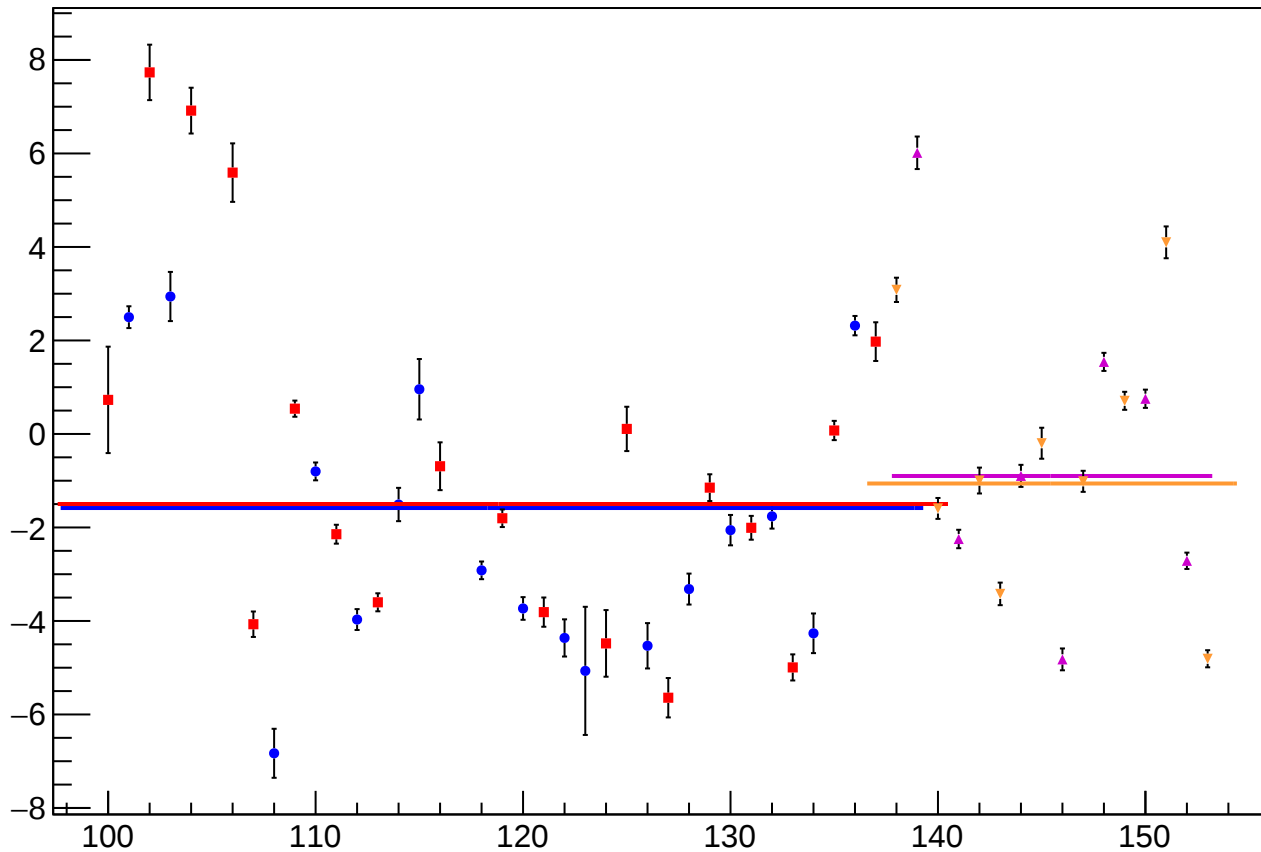
Left In:  $23.481 \pm 0.093$   $\chi^2/\text{NDF}$ : 23790.8/6

+ sign  $13.086 \pm 0.071$   $\chi^2/\text{NDF}$ : 75899.8/25

All:  $12.171 \pm 0.049$   $\chi^2/\text{NDF}$ : 137367.3/51

- sign  $11.343 \pm 0.068$   $\chi^2/\text{NDF}$ : 61152.1/25

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-1.060 \pm 0.079$   $\chi^2/\text{NDF}$ : 1095.6/8

Right Out:  $-1.498 \pm 0.066$   $\chi^2/\text{NDF}$ : 1503.7/18

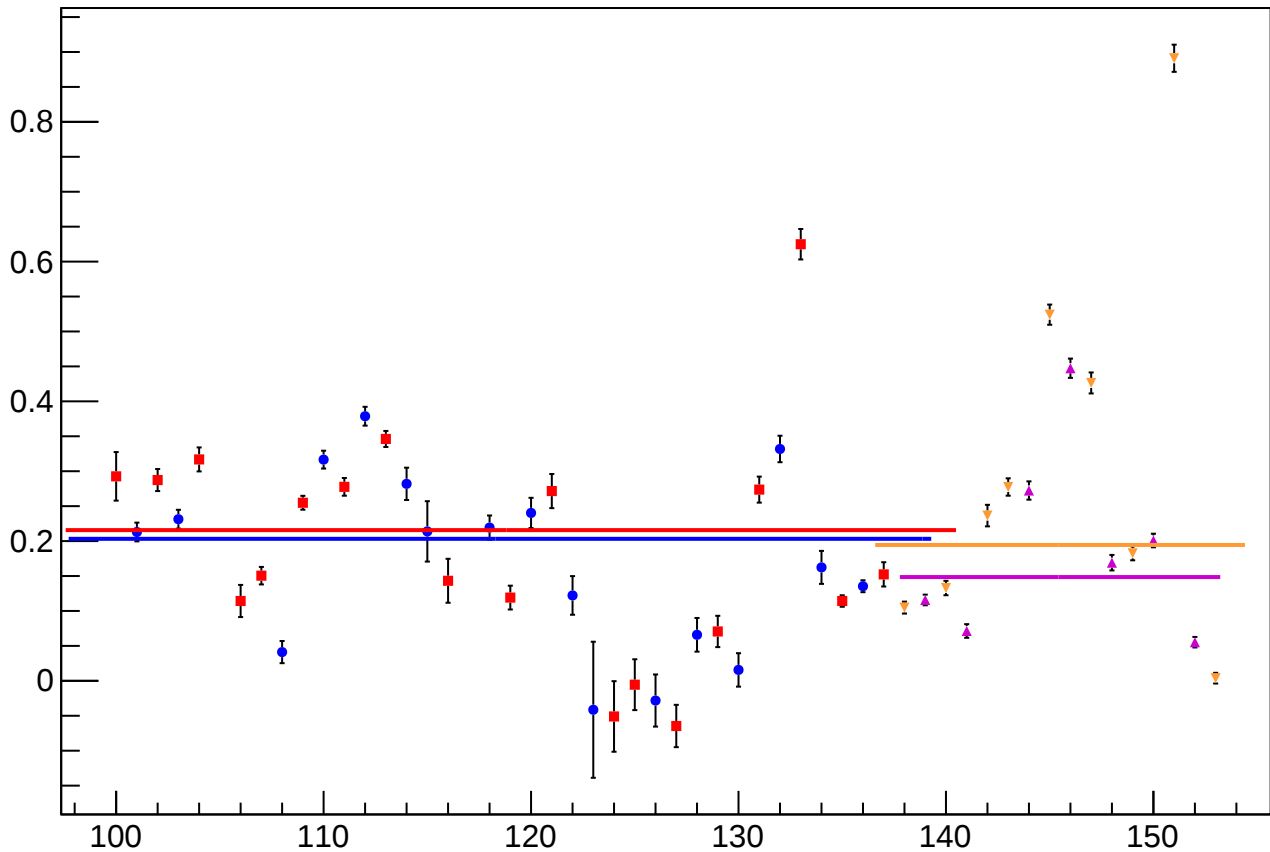
Left In:  $-0.899 \pm 0.080$   $\chi^2/\text{NDF}$ : 1062.0/6

+ sign  $-1.353 \pm 0.053$   $\chi^2/\text{NDF}$ : 2392.2/25

All:  $-1.303 \pm 0.037$   $\chi^2/\text{NDF}$ : 4993.2/51

- sign  $-1.258 \pm 0.051$   $\chi^2/\text{NDF}$ : 2599.2/25

# 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:  $0.194 \pm 0.004$   $\chi^2/\text{NDF}$ : 2857.8/8

Right Out:  $0.216 \pm 0.004$   $\chi^2/\text{NDF}$ : 1037.9/18

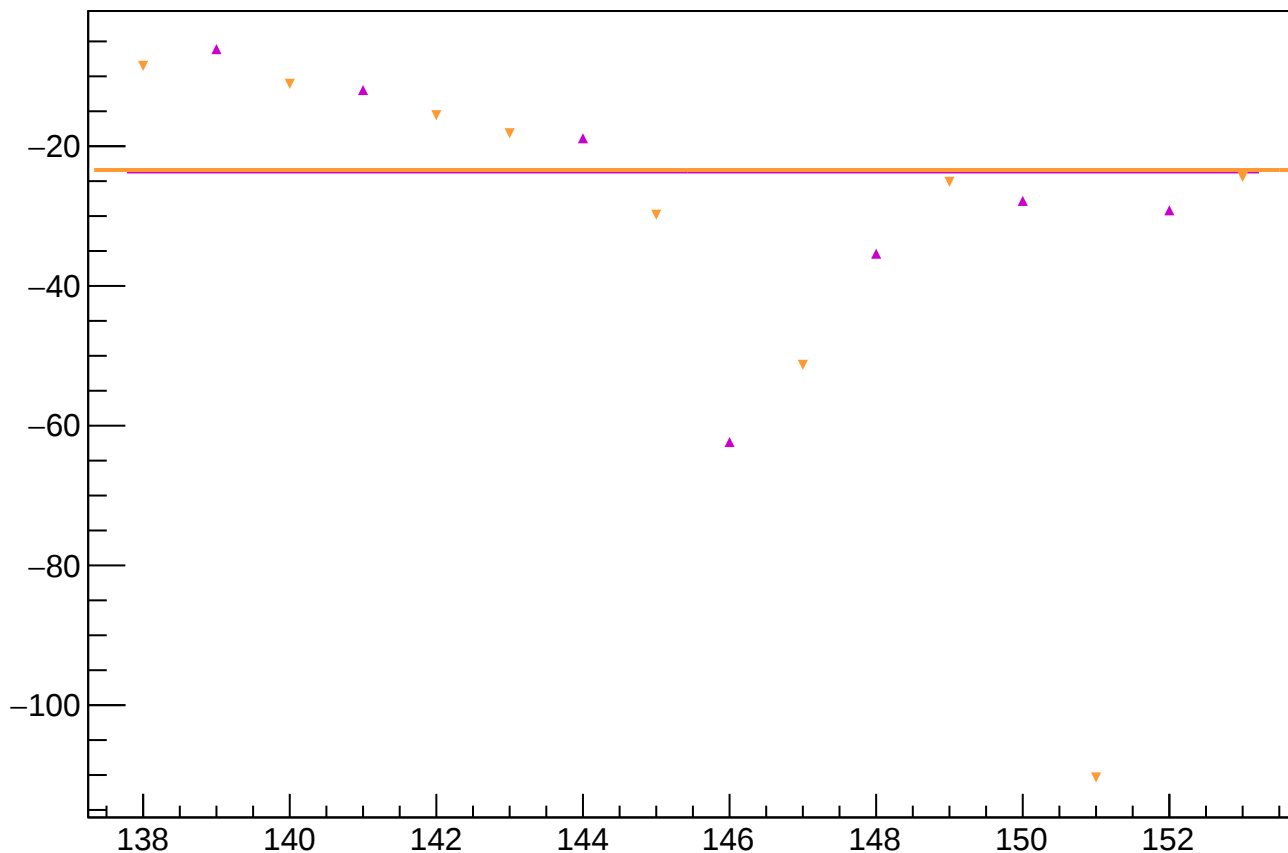
Left In:  $0.149 \pm 0.004$   $\chi^2/\text{NDF}$ : 825.3/6

+ sign  $0.198 \pm 0.003$   $\chi^2/\text{NDF}$ : 3493.1/25

All:  $0.190 \pm 0.002$   $\chi^2/\text{NDF}$ : 5543.4/51

- sign  $0.182 \pm 0.003$   $\chi^2/\text{NDF}$ : 2031.2/25

# 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: -23.408+/-0.093  $\chi^2/\text{NDF}$ : 48769.9/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

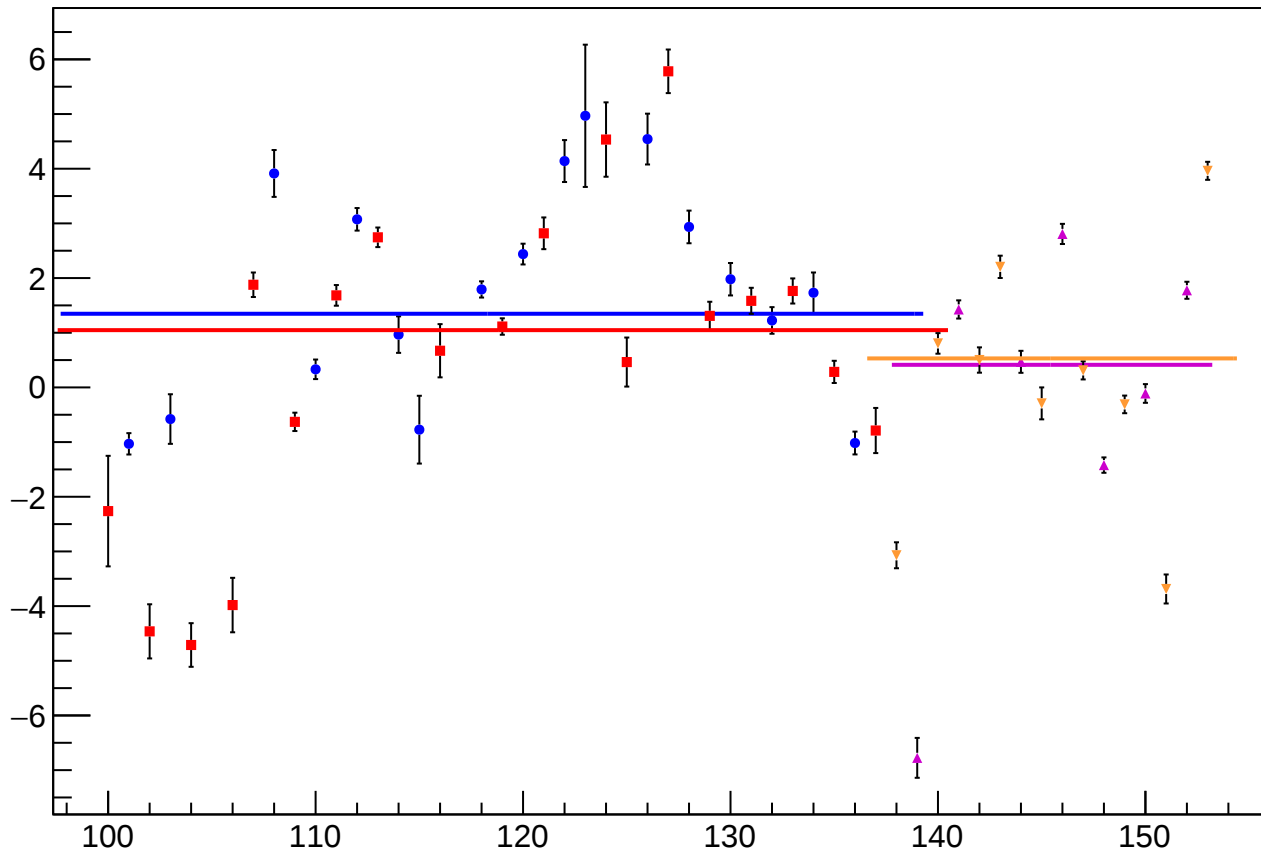
Left In: -23.616+/-0.094  $\chi^2/\text{NDF}$ : 28080.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.511+/-0.066  $\chi^2/\text{NDF}$ : 76852.7/15

- 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:  $0.530 \pm 0.066$   $\chi^2/\text{NDF}$ : 1022.5/8

Right Out:  $1.047 \pm 0.059$   $\chi^2/\text{NDF}$ : 916.0/18

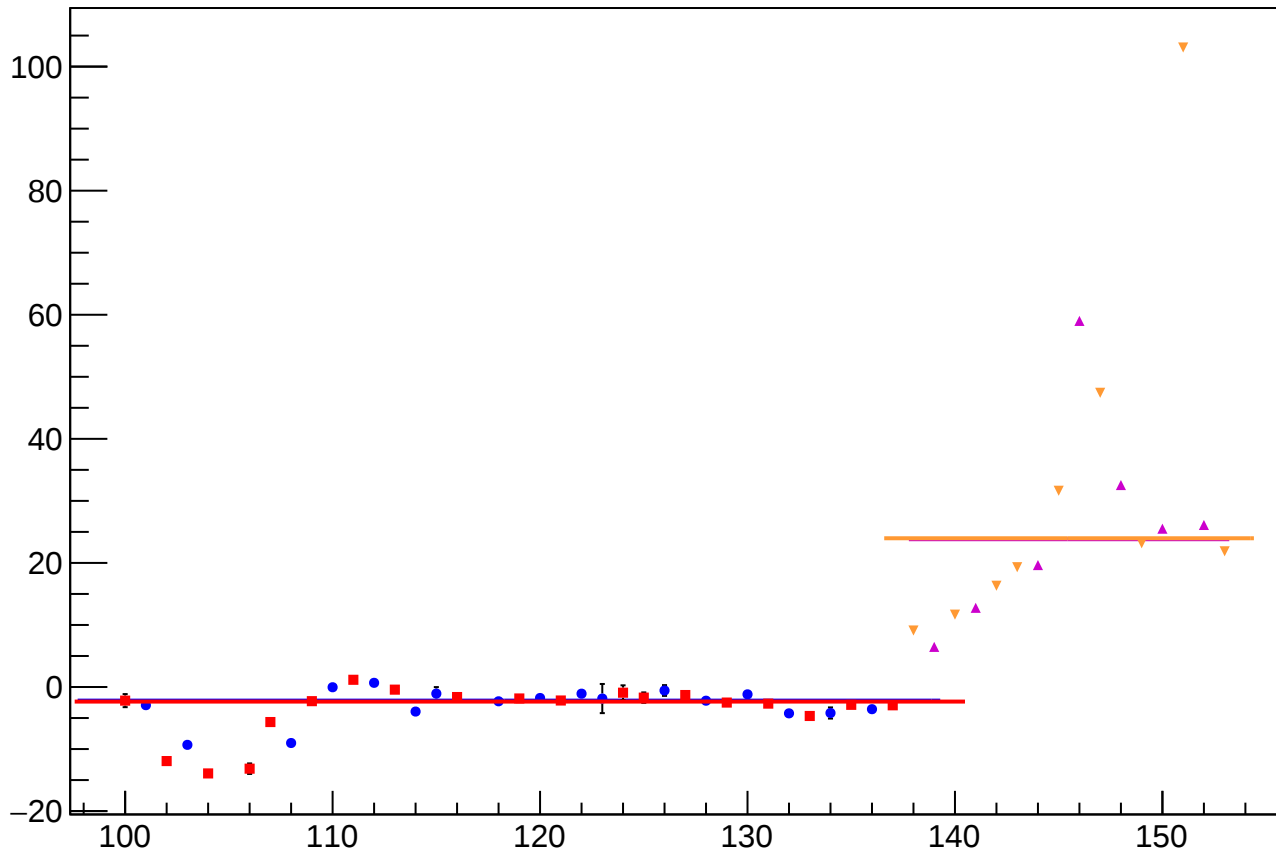
Left In:  $0.413 \pm 0.067$   $\chi^2/\text{NDF}$ : 849.8/6

+ sign  $0.965 \pm 0.045$   $\chi^2/\text{NDF}$ : 1733.0/25

All:  $0.865 \pm 0.032$   $\chi^2/\text{NDF}$ : 3558.9/51

- sign  $0.769 \pm 0.044$   $\chi^2/\text{NDF}$ : 1816.3/25

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.194 \pm 0.113$   $\chi^2/\text{NDF}$ : 463.5/16

Left Out:  $23.974 \pm 0.094$   $\chi^2/\text{NDF}$ : 43450.4/8

Right Out:  $-2.348 \pm 0.101$   $\chi^2/\text{NDF}$ : 908.5/18

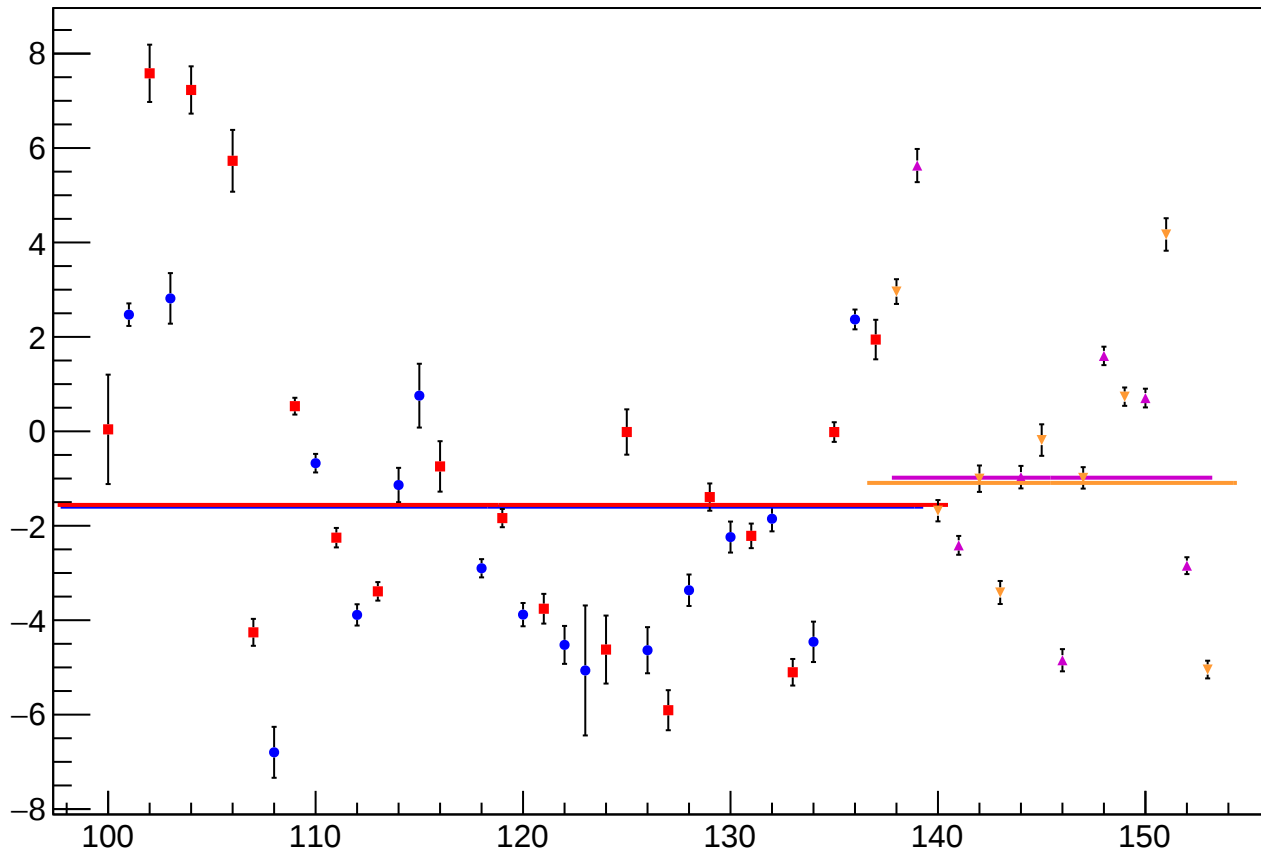
Left In:  $23.821 \pm 0.094$   $\chi^2/\text{NDF}$ : 23461.4/6

+ sign  $13.288 \pm 0.072$   $\chi^2/\text{NDF}$ : 75725.2/25

All:  $12.434 \pm 0.050$   $\chi^2/\text{NDF}$ : 136383.5/51

- sign  $11.658 \pm 0.069$   $\chi^2/\text{NDF}$ : 60390.7/25

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.595 \pm 0.072$   $\chi^2/\text{NDF}$ : 1255.4/16

Left Out:  $-1.092 \pm 0.080$   $\chi^2/\text{NDF}$ : 1111.1/8

Right Out:  $-1.558 \pm 0.067$   $\chi^2/\text{NDF}$ : 1463.8/18

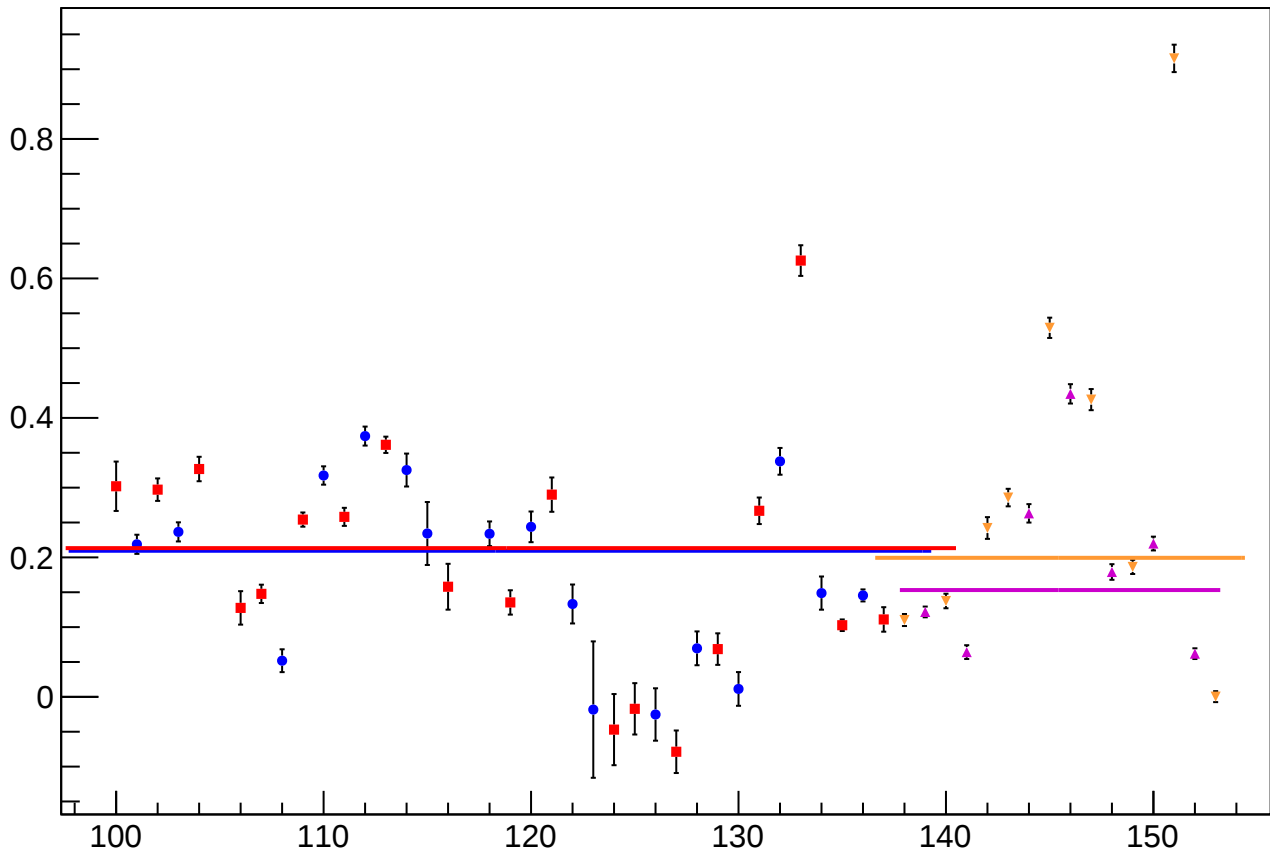
Left In:  $-0.982 \pm 0.081$   $\chi^2/\text{NDF}$ : 1031.1/6

+ sign  $-1.372 \pm 0.053$   $\chi^2/\text{NDF}$ : 2388.4/25

All:  $-1.348 \pm 0.037$   $\chi^2/\text{NDF}$ : 4913.7/51

- sign  $-1.325 \pm 0.052$   $\chi^2/\text{NDF}$ : 2524.9/25

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.210 $\pm$ 0.004  $\chi^2$ /NDF: 597.7/16

Left Out: 0.199 $\pm$ 0.004  $\chi^2$ /NDF: 2905.3/8

Right Out: 0.213 $\pm$ 0.004  $\chi^2$ /NDF: 1103.2/18

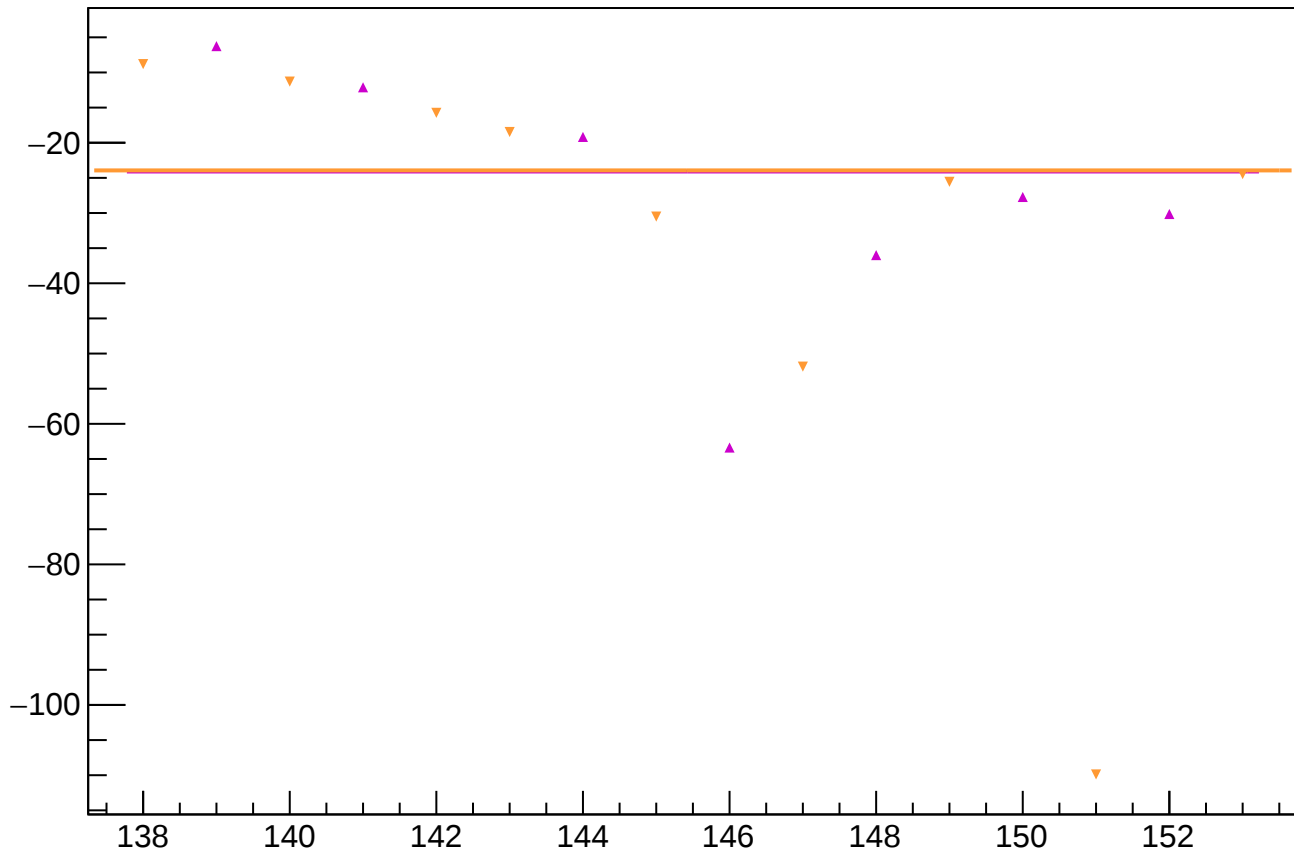
Left In: 0.153 $\pm$ 0.004  $\chi^2$ /NDF: 769.2/6

+ sign 0.204 $\pm$ 0.003  $\chi^2$ /NDF: 3506.3/25

All: 0.193 $\pm$ 0.002  $\chi^2$ /NDF: 5538.8/51

- sign 0.183 $\pm$ 0.003  $\chi^2$ /NDF: 2002.5/25

# 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: -23.938+/-0.094  $\chi^2/\text{NDF}$ : 48069.0/8

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

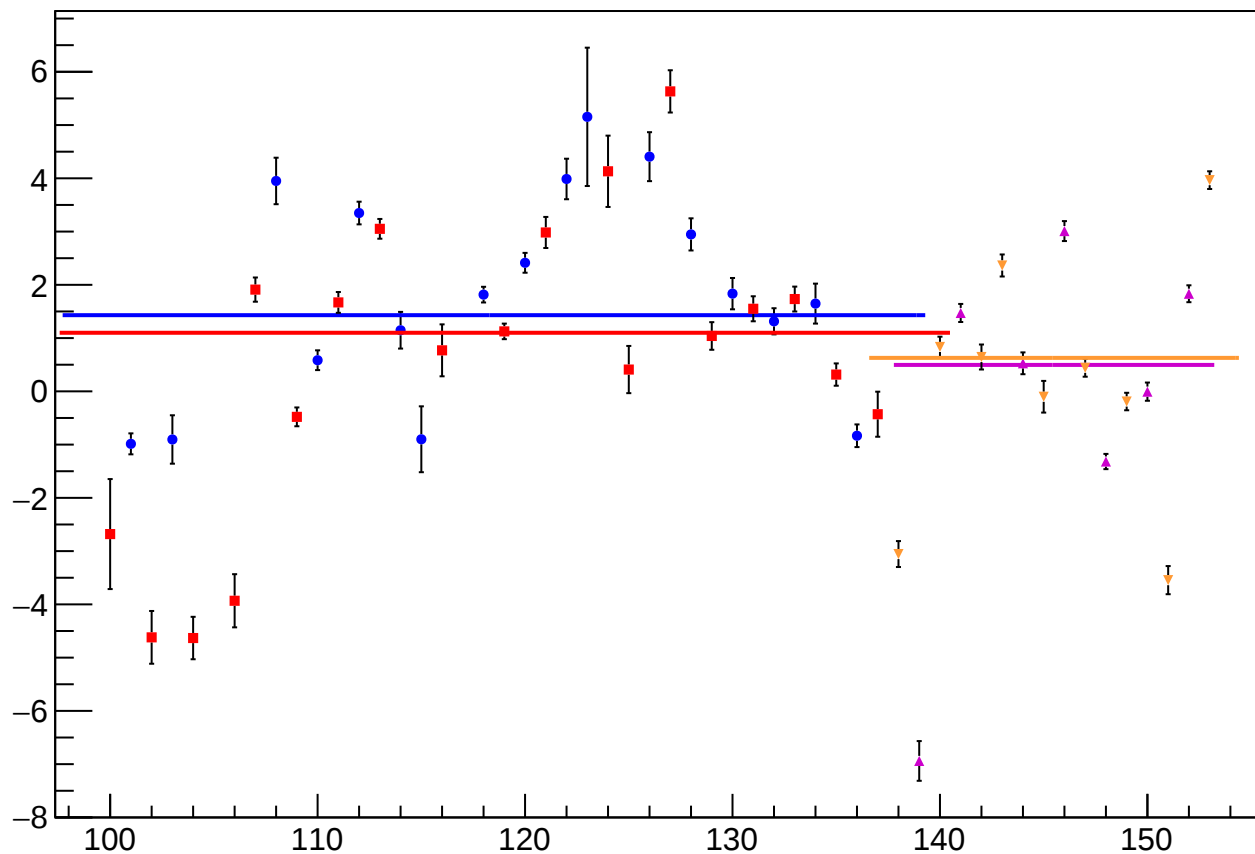
Left In: -24.089+/-0.096  $\chi^2/\text{NDF}$ : 28013.3/6

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.012+/-0.067  $\chi^2/\text{NDF}$ : 76083.5/15

- 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: 0.628 $\pm$ 0.067  $\chi^2/\text{NDF}$ : 985.2/8

Right Out: 1.100 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 901.0/18

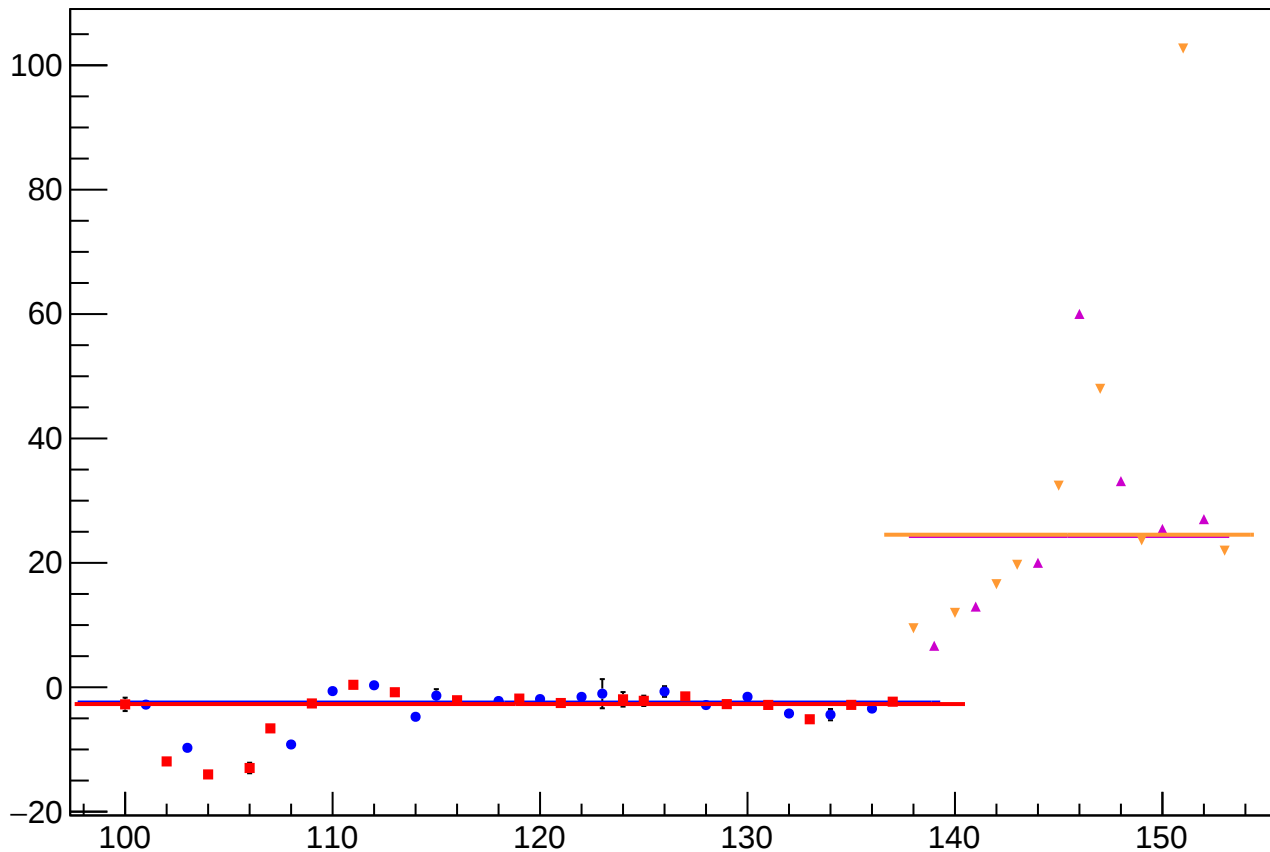
Left In: 0.496 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 850.9/6

+ sign 1.058 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 1658.9/25

All: 0.944 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 3467.3/51

- sign 0.835 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 1796.4/25

# 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:  $24.528 \pm 0.095$   $\chi^2/\text{NDF}$ : 42805.9/8

Right Out:  $-2.700 \pm 0.103$   $\chi^2/\text{NDF}$ : 829.7/18

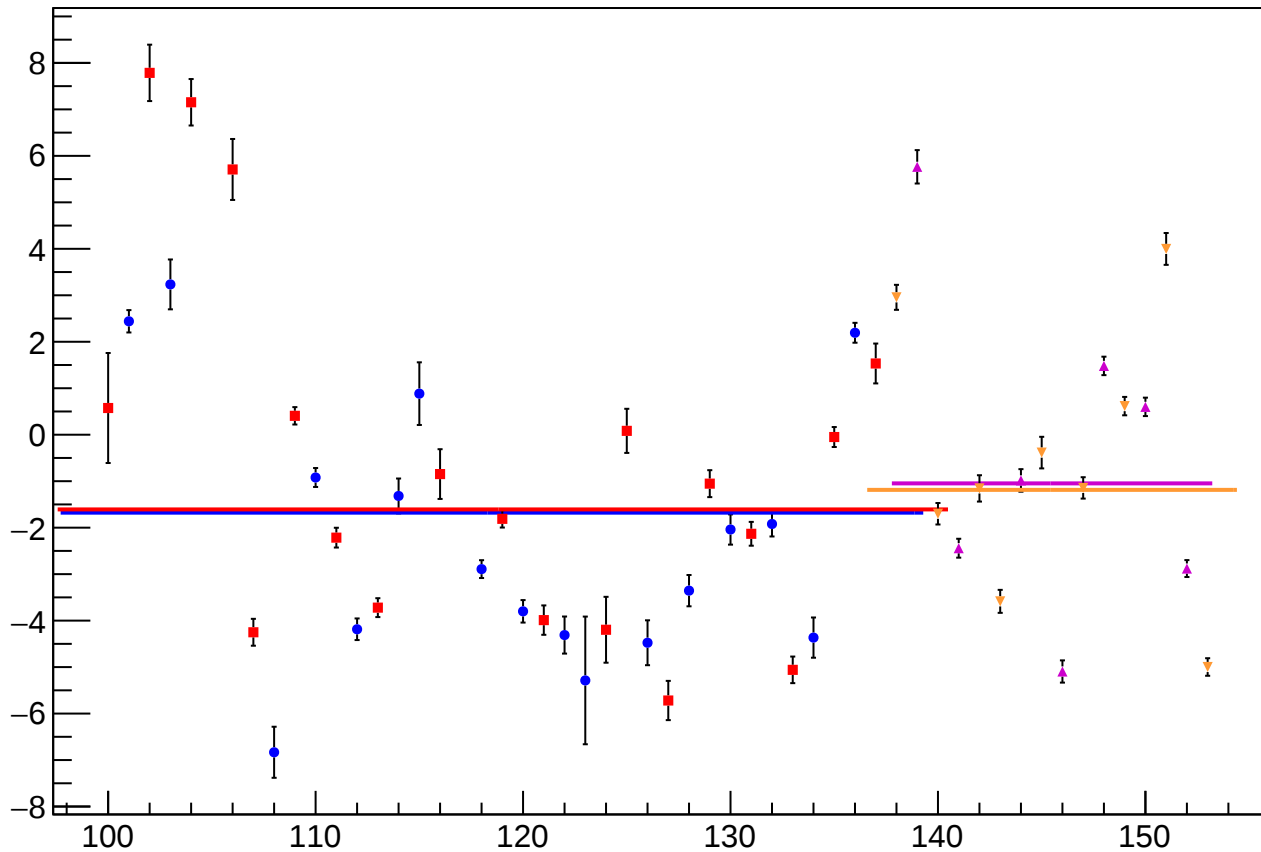
Left In:  $24.316 \pm 0.095$   $\chi^2/\text{NDF}$ : 23383.2/6

+ sign  $13.489 \pm 0.073$   $\chi^2/\text{NDF}$ : 76009.1/25

All:  $12.627 \pm 0.051$   $\chi^2/\text{NDF}$ : 137449.5/51

- sign  $11.839 \pm 0.070$   $\chi^2/\text{NDF}$ : 61175.5/25

# 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:  $-1.187 \pm 0.081$   $\chi^2/\text{NDF}$ : 1060.5/8

Right Out:  $-1.607 \pm 0.068$   $\chi^2/\text{NDF}$ : 1430.8/18

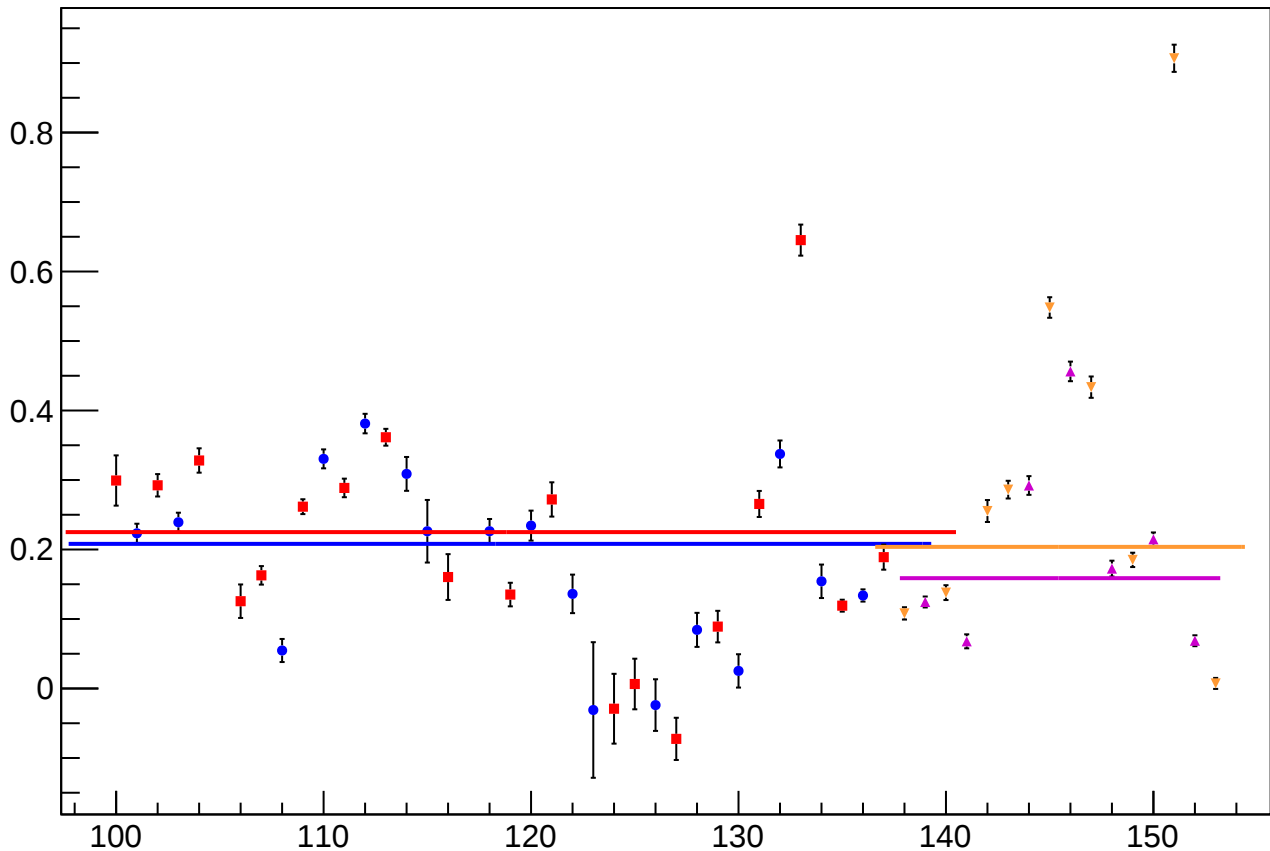
Left In:  $-1.047 \pm 0.082$   $\chi^2/\text{NDF}$ : 1025.7/6

+ sign  $-1.460 \pm 0.054$   $\chi^2/\text{NDF}$ : 2285.4/25

All:  $-1.419 \pm 0.038$   $\chi^2/\text{NDF}$ : 4770.6/51

- sign  $-1.381 \pm 0.052$   $\chi^2/\text{NDF}$ : 2484.1/25

# 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:  $0.204 \pm 0.004$   $\chi^2/\text{NDF}$ : 2881.0/8

Right Out:  $0.225 \pm 0.004$   $\chi^2/\text{NDF}$ : 1000.0/18

Left In:  $0.159 \pm 0.004$   $\chi^2/\text{NDF}$ : 808.8/6

+ sign  $0.206 \pm 0.003$   $\chi^2/\text{NDF}$ : 3481.8/25

All:  $0.198 \pm 0.002$   $\chi^2/\text{NDF}$ : 5456.6/51

- sign  $0.191 \pm 0.003$   $\chi^2/\text{NDF}$ : 1961.2/25