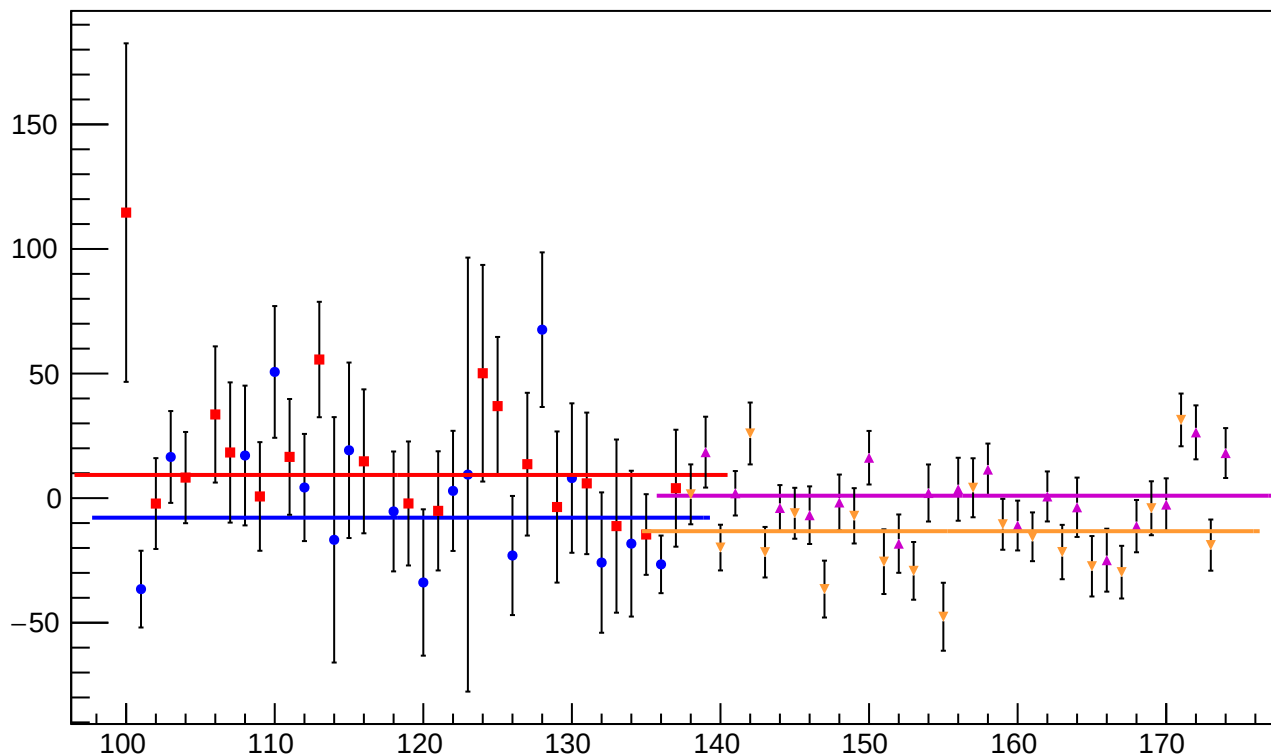


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

$\chi^2/\text{NDF}: 22.6/16$

Left Out: -13.265 ± 2.521

$\chi^2/\text{NDF}: 52.2/18$

Right Out: 9.309 ± 5.677

$\chi^2/\text{NDF}: 13.2/18$

Left In: 0.974 ± 2.551

$\chi^2/\text{NDF}: 23.8/17$

Left: -6.230 ± 1.793

$\chi^2/\text{NDF}: 91.8/36$

Right: 0.629 ± 3.990

$\chi^2/\text{NDF}: 40.5/35$

In: -0.537 ± 2.322

$\chi^2/\text{NDF}: 48.5/34$

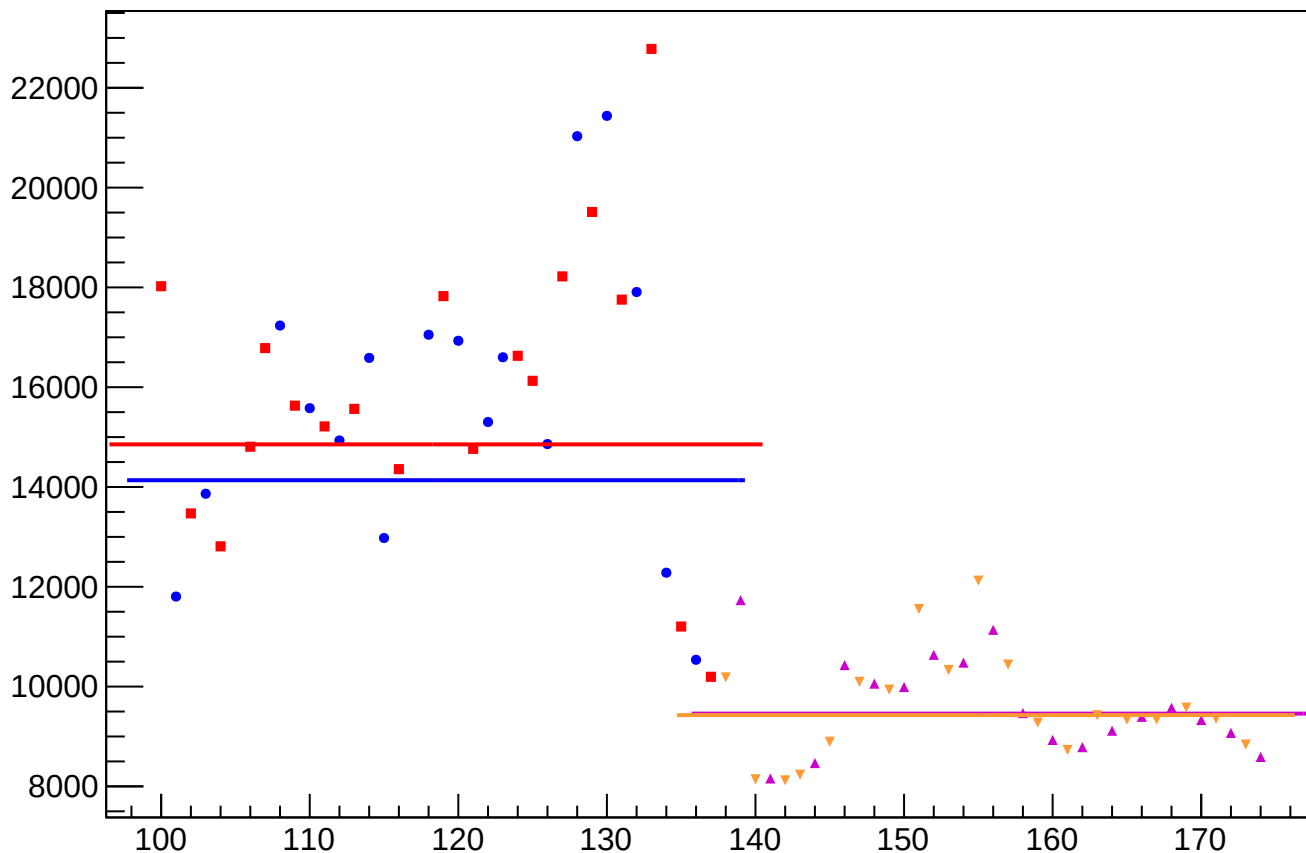
Out: -9.548 ± 2.304

$\chi^2/\text{NDF}: 78.7/37$

All: -5.078 ± 1.635

$\chi^2/\text{NDF}: 134.7/72$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800 $\pm$ 3.966 χ^2 /NDF: 597179.4/16

Left Out: 9428.083 $\pm$ 1.782 χ^2 /NDF:290204.5/18

Right Out: 14854.033 $\pm$ 4.014 χ^2 /NDF: 472017.6/18

Left In: 9458.360 $\pm$ 1.804 χ^2 /NDF:247635.0/17

Left: 9443.042 $\pm$ 1.268 χ^2 /NDF: 537982.1/36

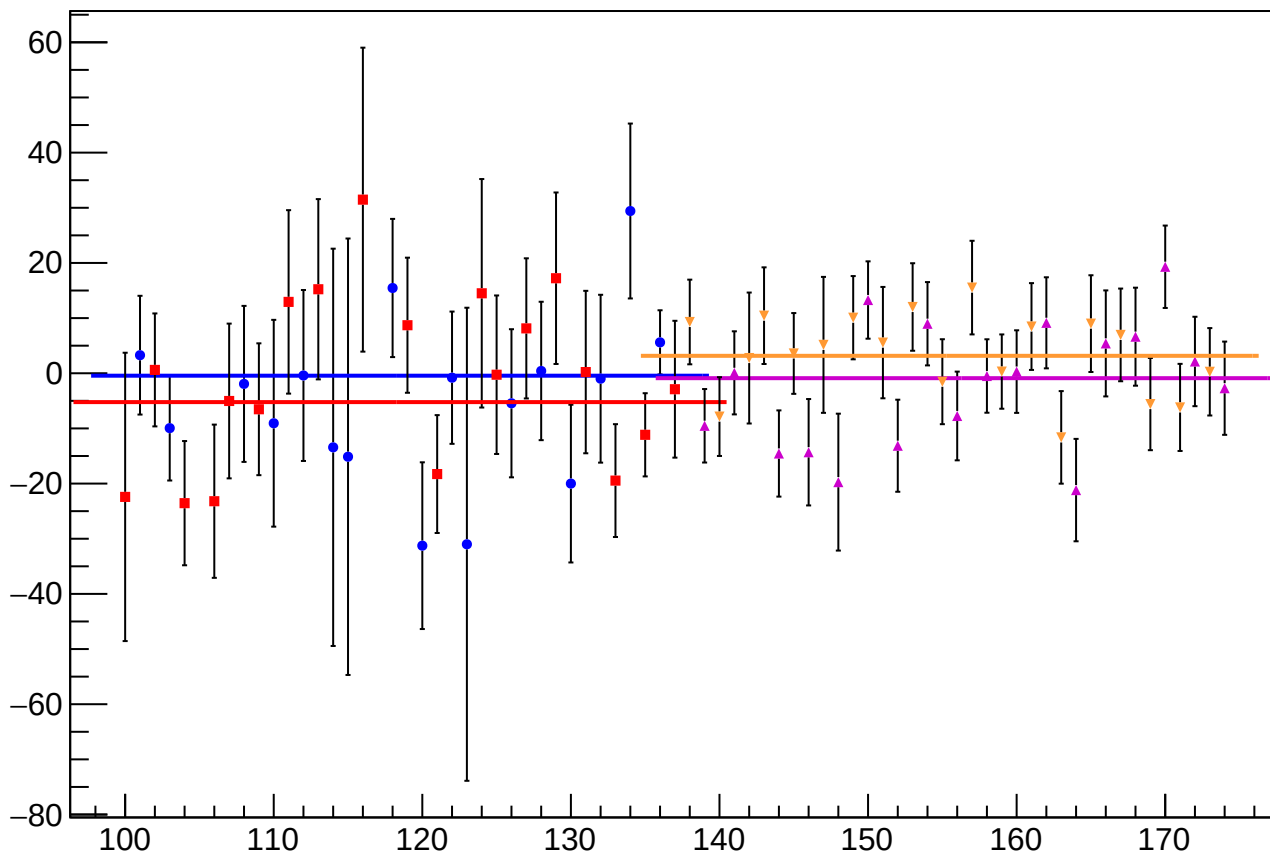
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10260.026 $\pm$ 1.642 χ^2 /NDF:1997554.3/34

Out: 10321.512 $\pm$ 1.629 χ^2 /NDF:2288296.3/37

All: 10291.010 $\pm$ 1.156 χ^2 /NDF: 4286557.4/71

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.441 ± 3.071 χ^2/NDF : 14.5/16

Left Out: 3.163 ± 1.884 χ^2/NDF : 15.4/18

Right Out: -5.229 ± 2.936 χ^2/NDF : 19.4/18

Left In: -0.892 ± 1.894 χ^2/NDF : 32.6/17

Left: 1.147 ± 1.336 χ^2/NDF : 50.3/36

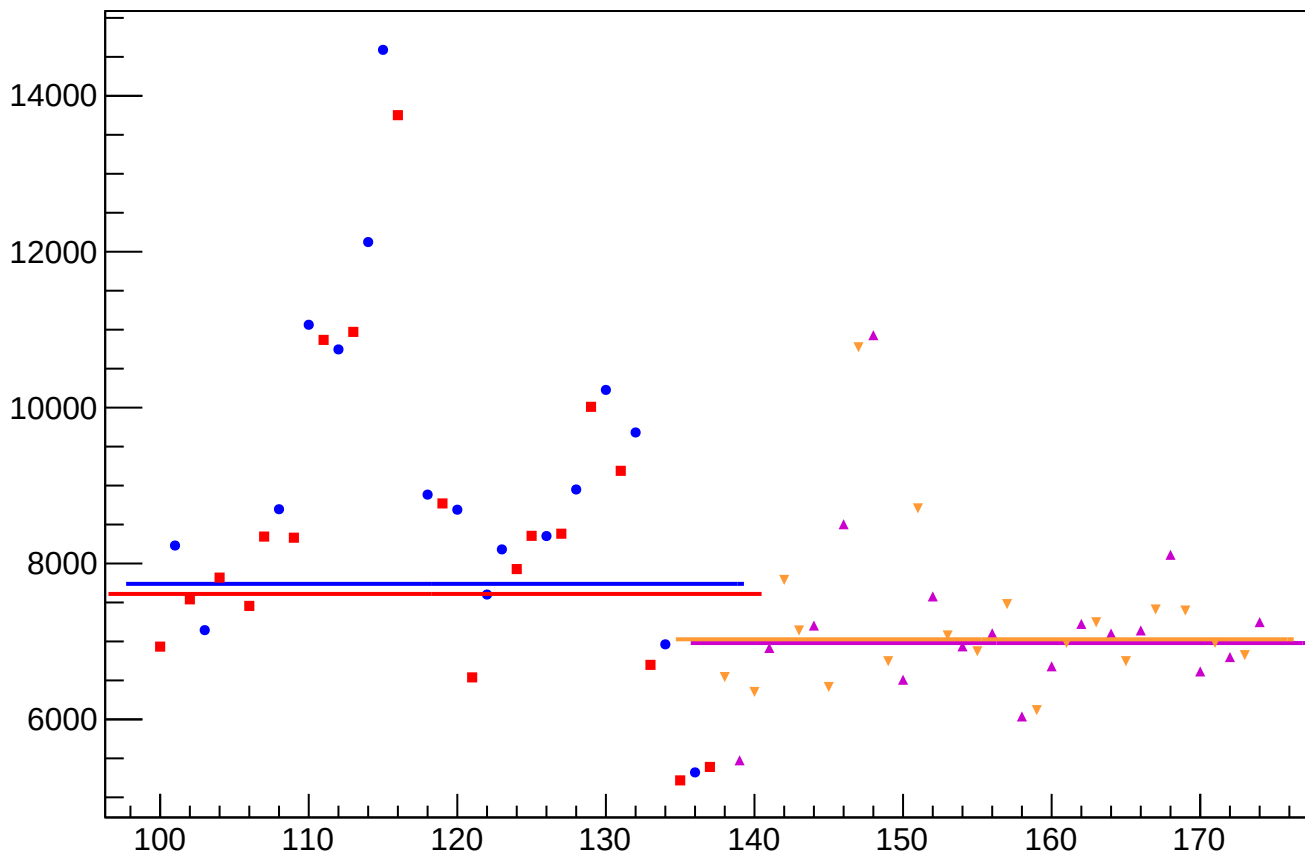
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -0.768 ± 1.612 χ^2/NDF : 47.1/34

Out: 0.715 ± 1.585 χ^2/NDF : 40.5/37

All: -0.014 ± 1.130 χ^2/NDF : 88.1/72

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886+/-2.172 χ^2/NDF : 740836.7/16

Left Out: 7027.751+/-1.332 χ^2/NDF :347284.1/18

Right Out: 7609.531+/-2.076 χ^2/NDF : 679180.7/18

Left In: 6979.437+/-1.339 χ^2/NDF :462277.0/17

Left: 7003.724+/-0.944 χ^2/NDF : 810215.3/36

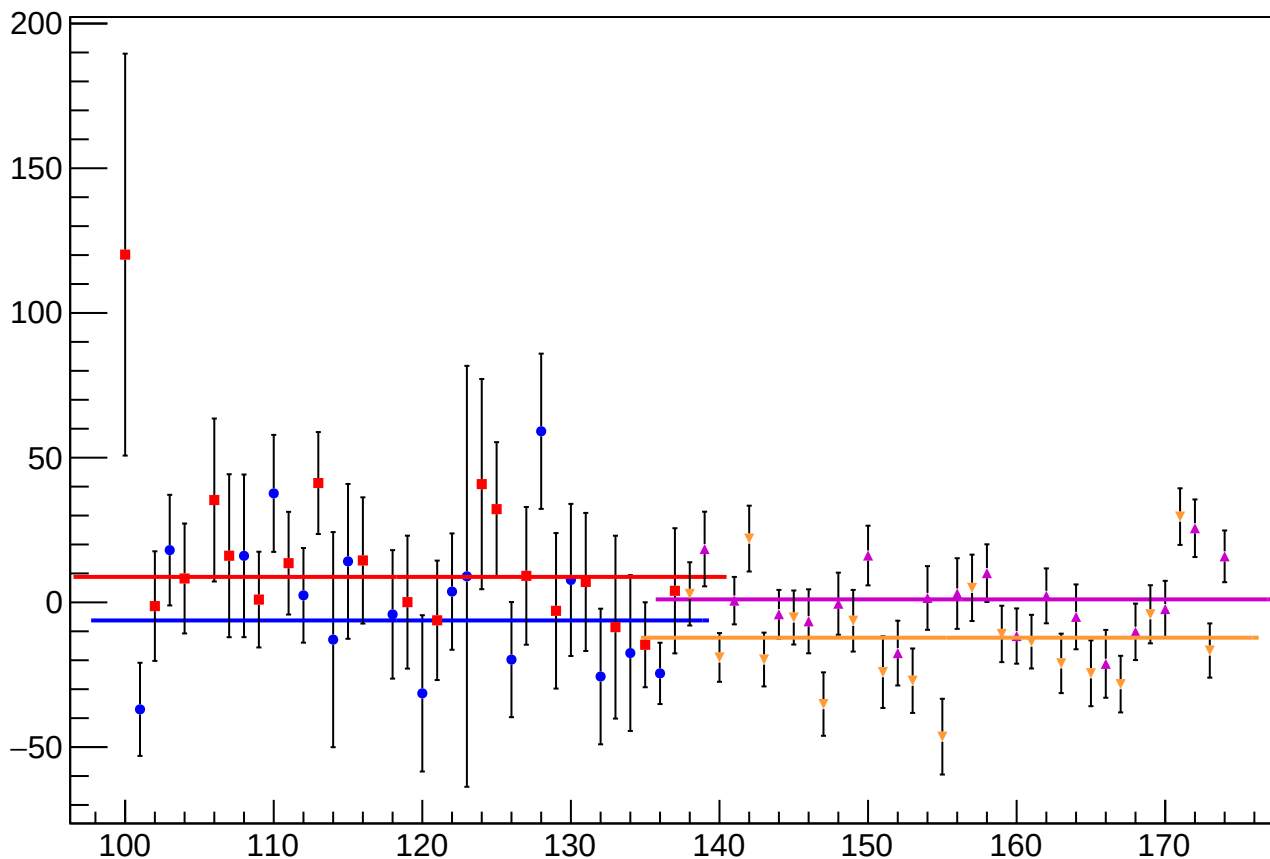
Right: 7671.298+/-1.501 χ^2/NDF : 1421871.4/35

In: 7188.691+/-1.140 χ^2/NDF :1291721.9/34

Out: 7197.419+/-1.121 χ^2/NDF :1082099.4/37

All: 7193.127+/-0.799 χ^2/NDF : 2373851.1/72

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 $\pm$ 5.017 χ^2/NDF : 23.2/16

Left Out: -12.201 $\pm$ 2.357 χ^2/NDF : 53.1/18

Right Out: 8.802 $\pm$ 4.999 χ^2/NDF : 13.1/18

Left In: 1.033 $\pm$ 2.388 χ^2/NDF : 24.4/17

Left: -5.671 $\pm$ 1.677 χ^2/NDF : 93.1/36

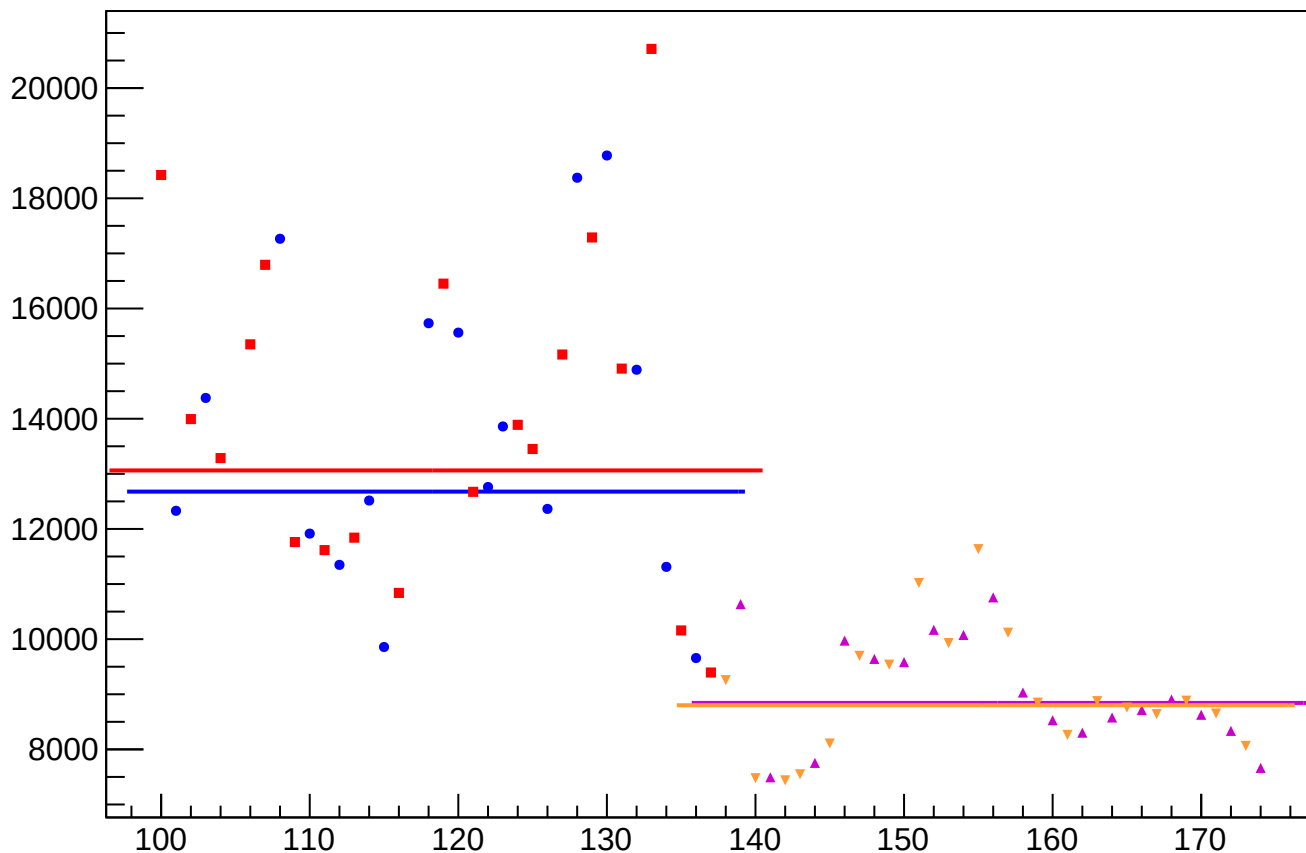
Right: 1.306 $\pm$ 3.541 χ^2/NDF : 40.9/35

In: -0.311 $\pm$ 2.156 χ^2/NDF : 49.4/34

Out: -8.382 $\pm$ 2.132 χ^2/NDF : 80.7/37

All: -4.393 $\pm$ 1.516 χ^2/NDF : 137.2/72

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12677.516+/-3.548 χ^2/NDF : 553605.5/16

Left Out: 8800.737+/-1.666 χ^2/NDF : 377258.1/18

Right Out: 13061.839+/-3.535 χ^2/NDF : 497429.6/18

Left In: 8843.012+/-1.688 χ^2/NDF : 323069.8/17

Left: 8821.597+/-1.186 χ^2/NDF : 700645.5/36

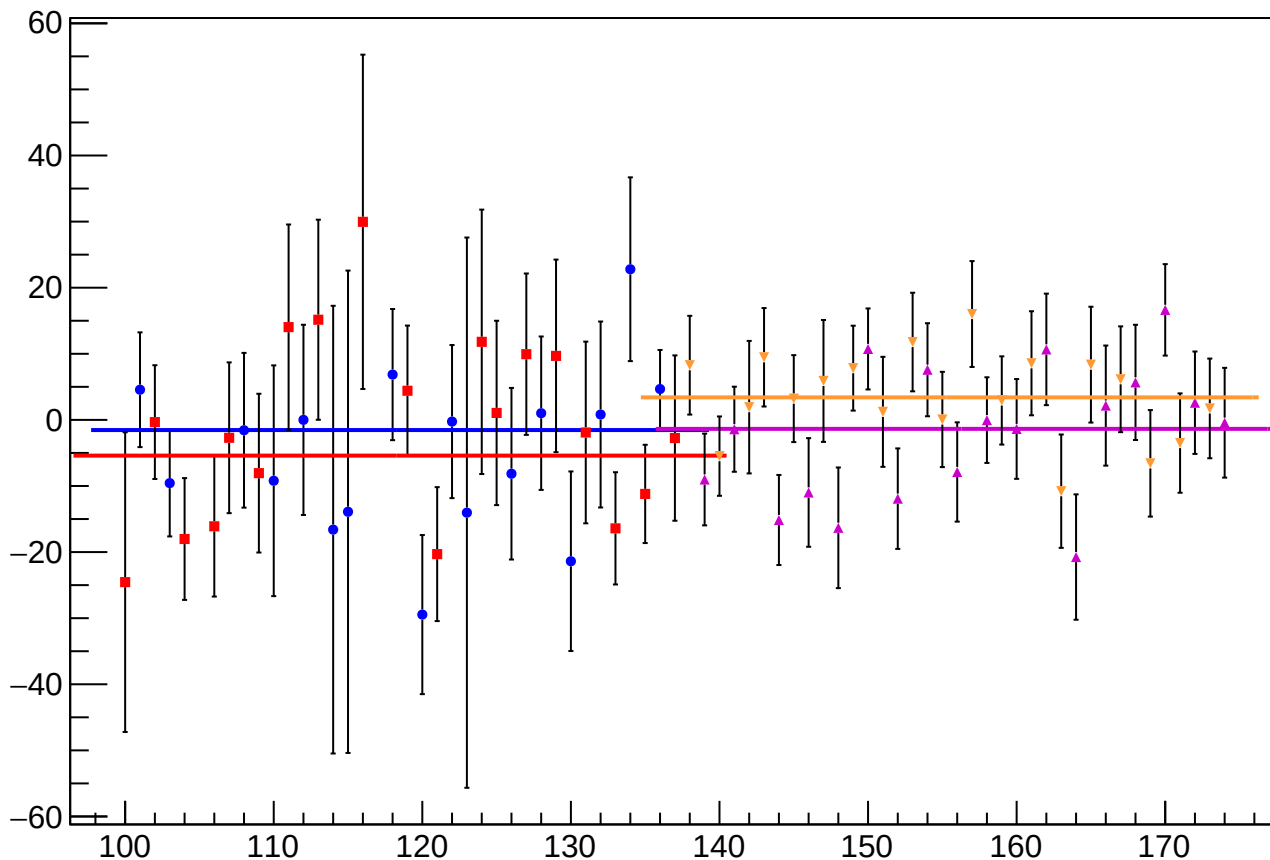
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9551.141+/-1.525 χ^2/NDF : 1829102.0/34

Out: 9575.501+/-1.507 χ^2/NDF : 2063476.2/37

All: 9563.460+/-1.072 χ^2/NDF : 3892707.3/72

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.790 χ^2/NDF : 14.8/16

Left Out: 3.406 ± 1.737 χ^2/NDF : 13.9/18

Right Out: -5.405 ± 2.640 χ^2/NDF : 18.6/18

Left In: -1.358 ± 1.771 χ^2/NDF : 31.7/17

Left: 1.070 ± 1.240 χ^2/NDF : 49.3/36

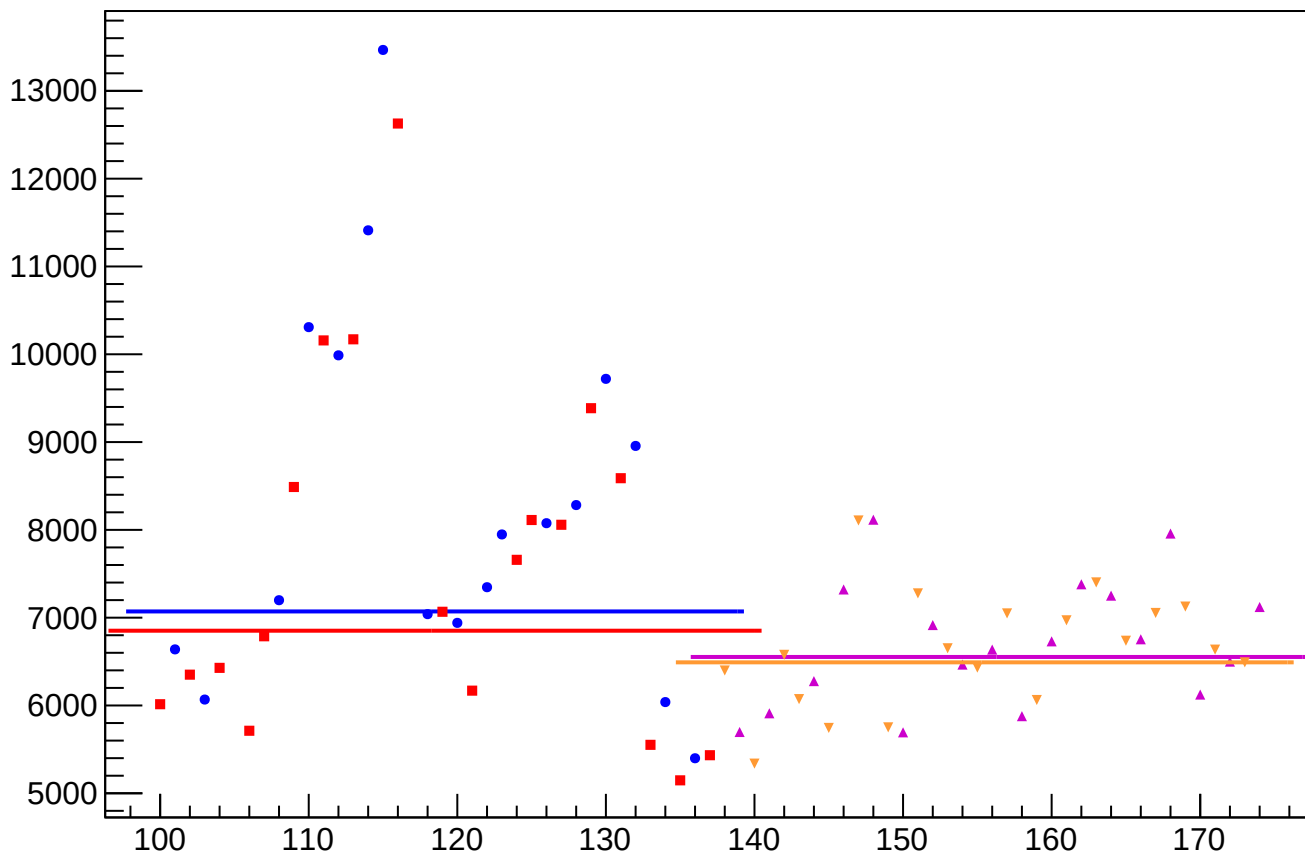
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -1.409 ± 1.495 χ^2/NDF : 46.5/34

Out: 0.744 ± 1.451 χ^2/NDF : 40.3/37

All: -0.300 ± 1.041 χ^2/NDF : 87.8/72

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043+/-1.973 χ^2/NDF : 600748.1/16

Left Out: 6491.265+/-1.228 χ^2/NDF : 285832.5/18

Right Out: 6851.604+/-1.866 χ^2/NDF : 684398.7/18

Left In: 6552.616+/-1.252 χ^2/NDF : 296975.7/17

Left: 6521.346+/-0.877 χ^2/NDF : 584031.9/36

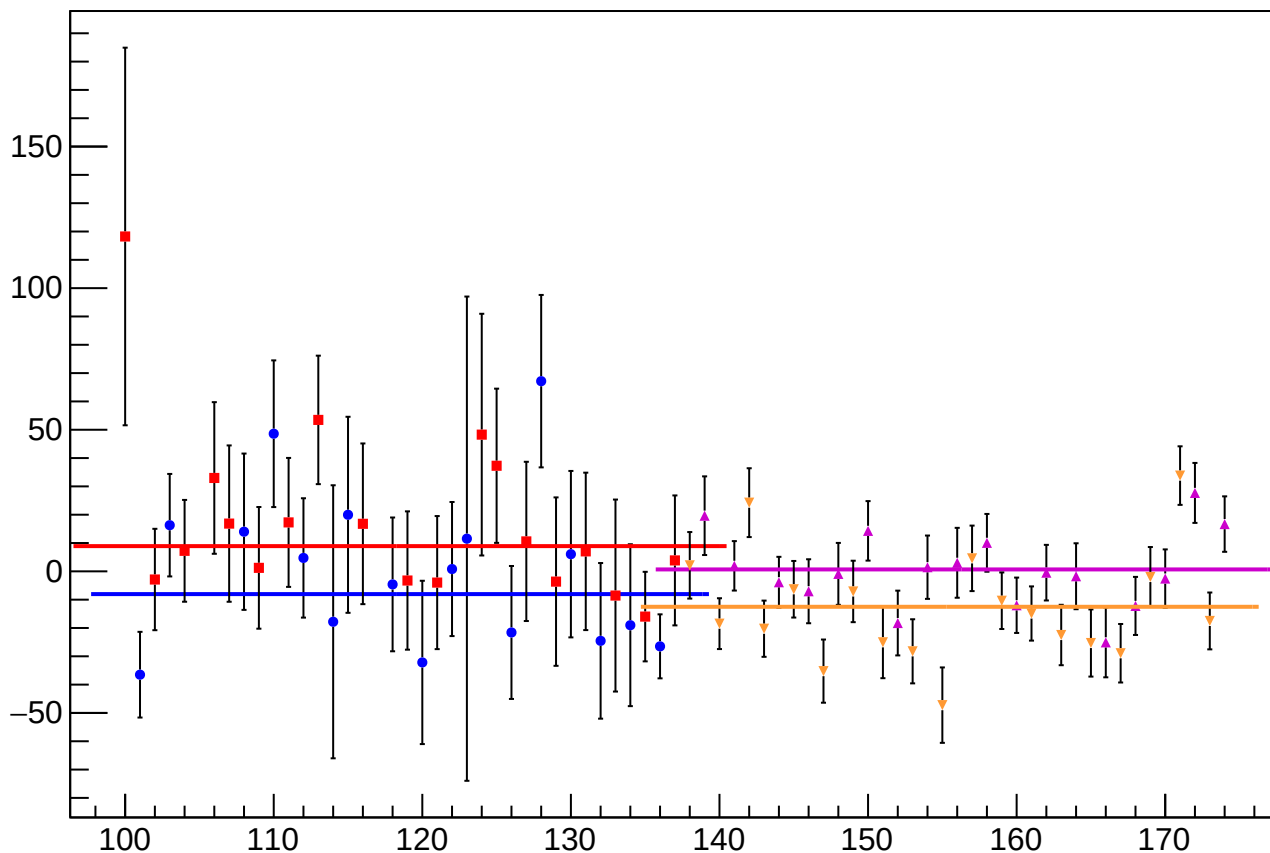
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6701.451+/-1.057 χ^2/NDF : 946940.8/34

Out: 6600.127+/-1.026 χ^2/NDF : 996242.0/37

All: 6649.268+/-0.736 χ^2/NDF : 1947913.5/72

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036±/5.497 χ^2/NDF : 22.6/16

Left Out: -12.515±/2.464 χ^2/NDF :54.4/18

Right Out: 8.907±/5.566 χ^2/NDF : 13.7/18

Left In: 0.676±/2.493 χ^2/NDF :24.9/17

Left: -5.997±/1.752 χ^2/NDF : 93.5/36

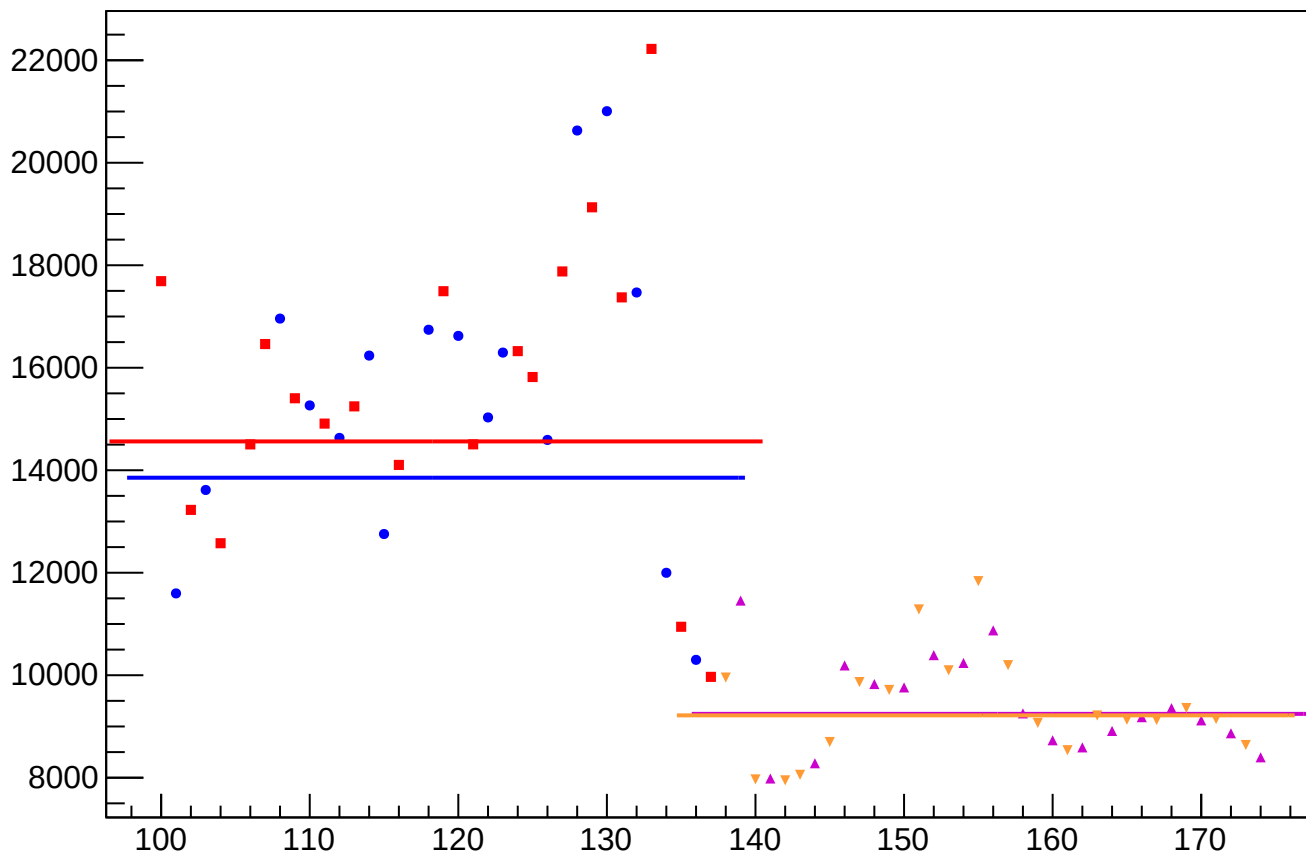
Right: 0.330±/3.911 χ^2/NDF : 41.0/35

In: -0.810±/2.271 χ^2/NDF :49.5/34

Out: -9.005±/2.253 χ^2/NDF :80.5/37

All: -4.939±/1.599 χ^2/NDF : 136.6/72

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187+/-3.887 χ^2/NDF : 600963.4/16

Left Out: 9217.060+/-1.742 χ^2/NDF : 287035.5/18

Right Out: 14562.308+/-3.936 χ^2/NDF : 474279.5/18

Left In: 9245.953+/-1.763 χ^2/NDF : 244907.6/17

Left: 9231.336+/-1.239 χ^2/NDF : 532079.1/36

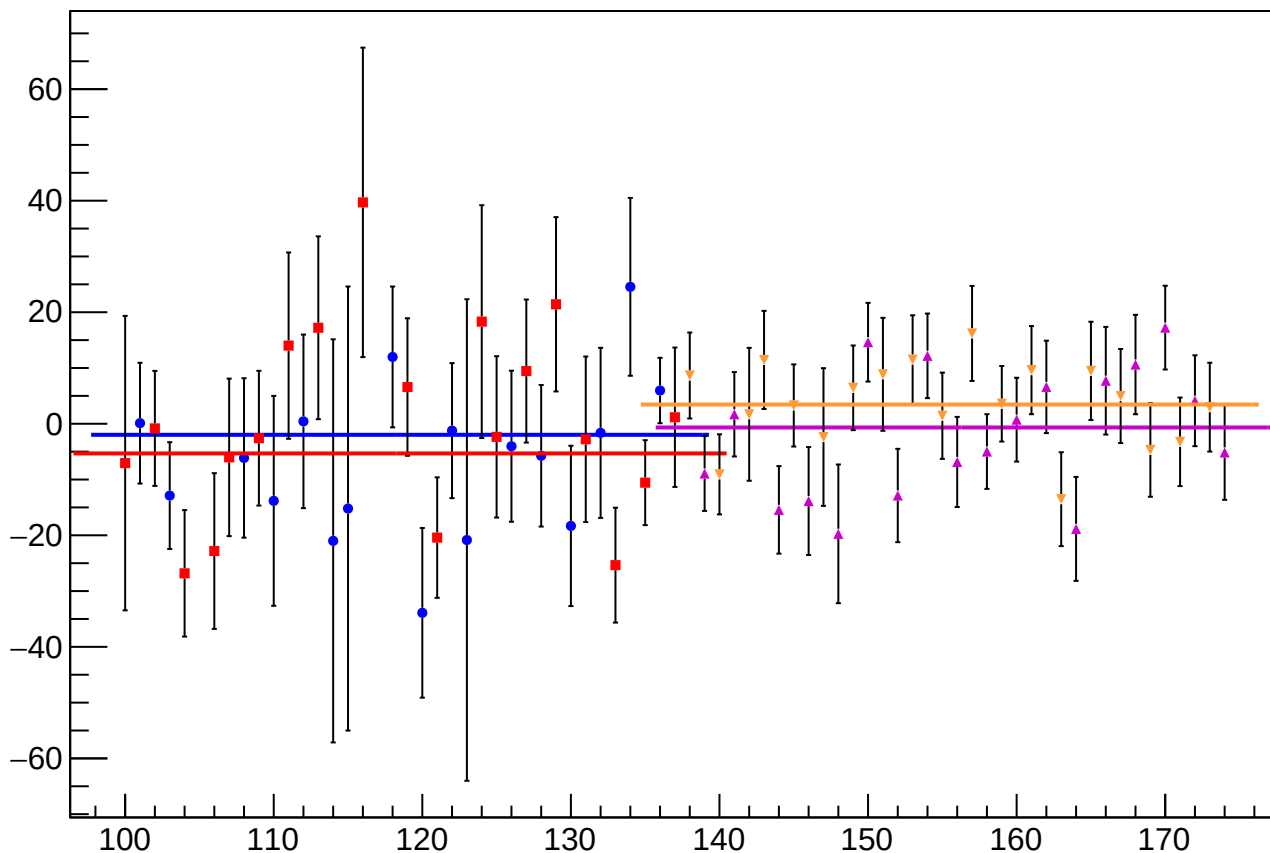
Right: 14203.845+/-2.766 χ^2/NDF : 1091628.8/35

In: 10032.089+/-1.606 χ^2/NDF : 2011481.8/34

Out: 10092.826+/-1.593 χ^2/NDF : 2303521.6/37

All: 10062.693+/-1.131 χ^2/NDF : 4315724.5/77

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 $\chi^2/\text{NDF}: 14.0/16$

Left Out: 3.449 ± 1.892 $\chi^2/\text{NDF}: 15.2/18$

Right Out: -5.318 ± 2.959 $\chi^2/\text{NDF}: 24.3/18$

Left In: -0.664 ± 1.903 $\chi^2/\text{NDF}: 33.3/17$

Left: 1.404 ± 1.342 $\chi^2/\text{NDF}: 50.8/36$

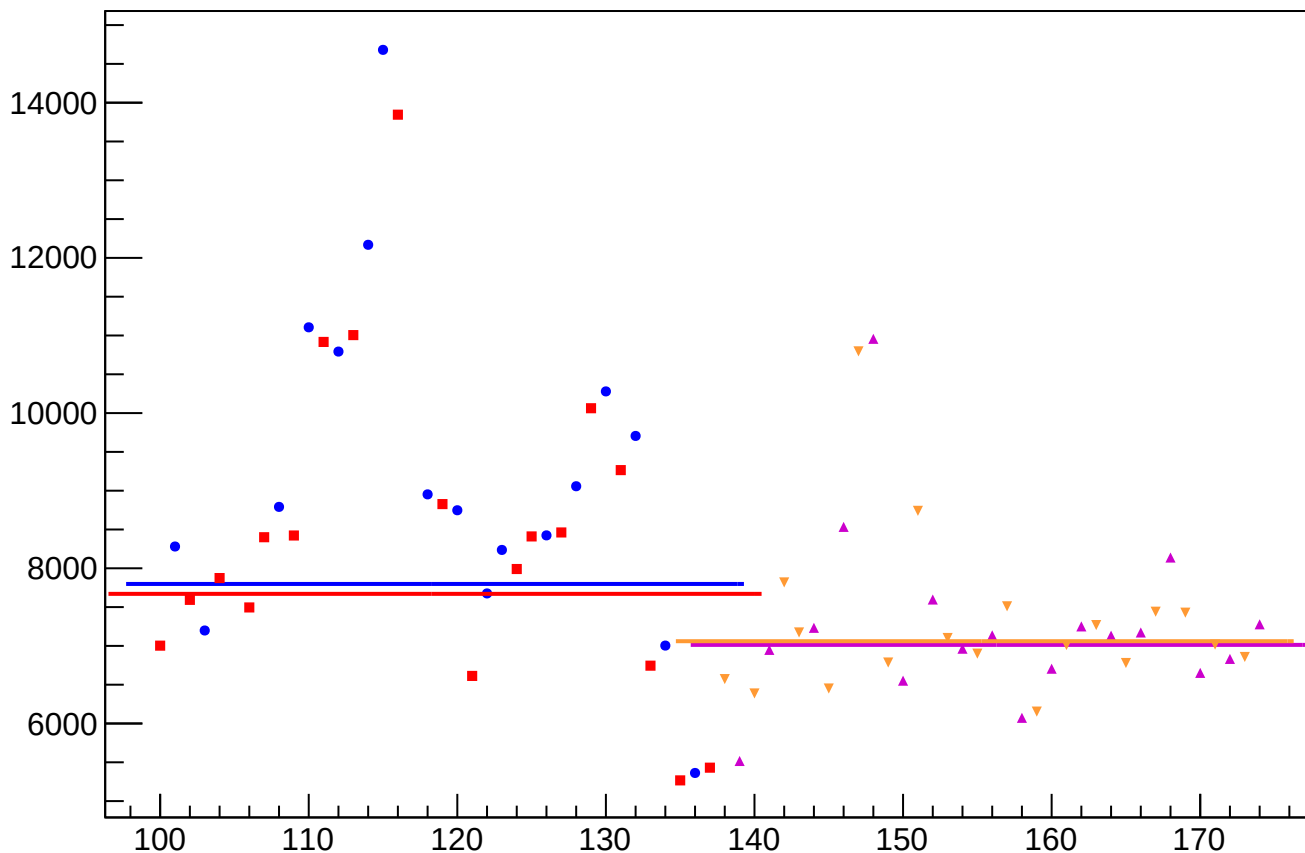
Right: -3.723 ± 2.138 $\chi^2/\text{NDF}: 39.0/35$

In: -1.025 ± 1.621 $\chi^2/\text{NDF}: 47.5/34$

Out: 0.904 ± 1.594 $\chi^2/\text{NDF}: 45.7/37$

All: -0.044 ± 1.136 $\chi^2/\text{NDF}: 93.9/72$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267+/-2.188 $\chi^2/\text{NDF}: 736283.6/16$

Left Out: 7060.404+/-1.338 $\chi^2/\text{NDF}: 343369.2/18$

Right Out: 7670.584+/-2.092 $\chi^2/\text{NDF}: 672691.0/18$

Left In: 7013.020+/-1.345 $\chi^2/\text{NDF}: 455194.0/17$

Left: 7036.842+/-0.949 $\chi^2/\text{NDF}: 799186.8/36$

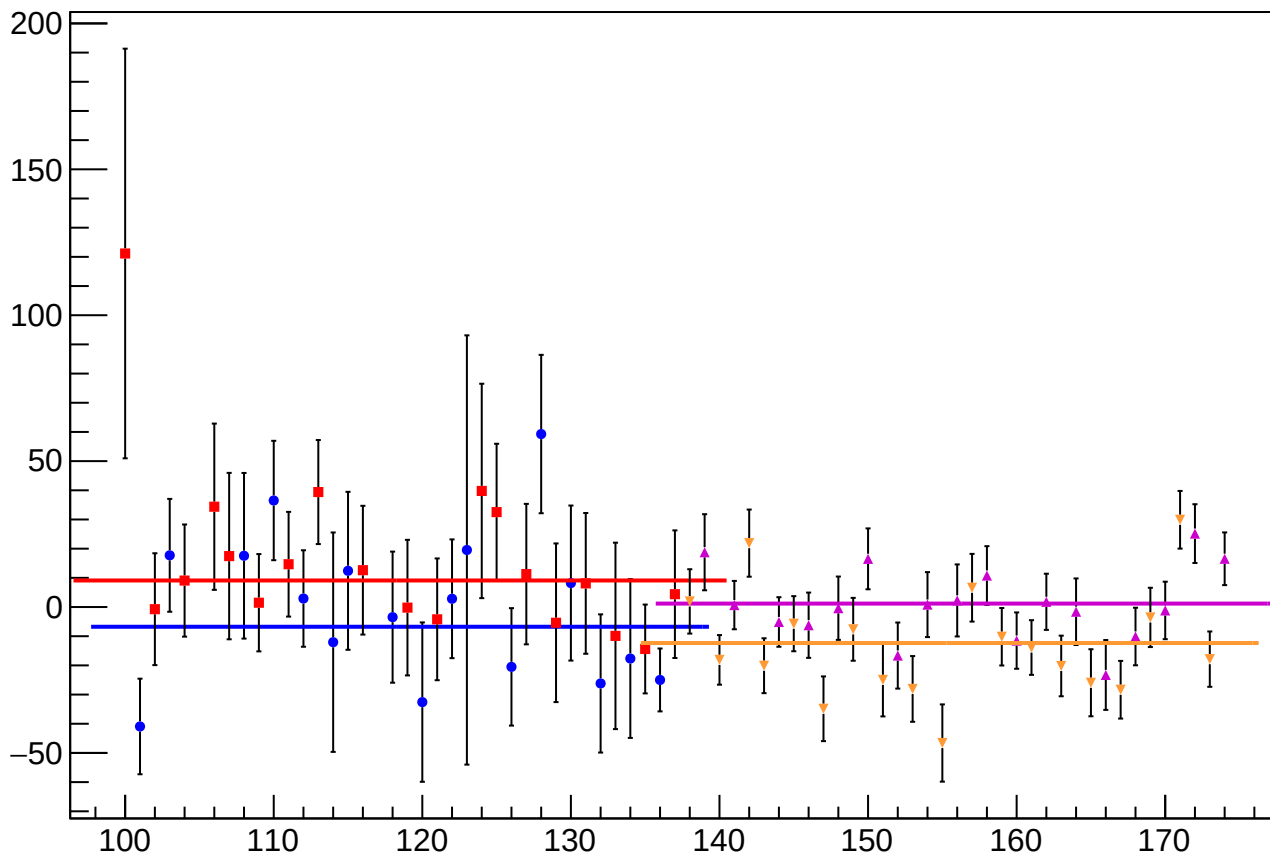
Right: 7731.569+/-1.512 $\chi^2/\text{NDF}: 1410753.9/35$

In: 7228.496+/-1.146 $\chi^2/\text{NDF}: 1284955.4/34$

Out: 7237.543+/-1.127 $\chi^2/\text{NDF}: 1076437.5/37$

All: 7233.095+/-0.804 $\chi^2/\text{NDF}: 2361424.6/72$

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 $\pm$ 5.085 χ^2/NDF : 23.7/16

Left Out: -12.331 $\pm$ 2.383 χ^2/NDF : 52.8/18

Right Out: 9.102 $\pm$ 5.070 χ^2/NDF : 12.2/18

Left In: 1.180 $\pm$ 2.417 χ^2/NDF : 24.3/17

Left: -5.672 $\pm$ 1.697 χ^2/NDF : 93.0/36

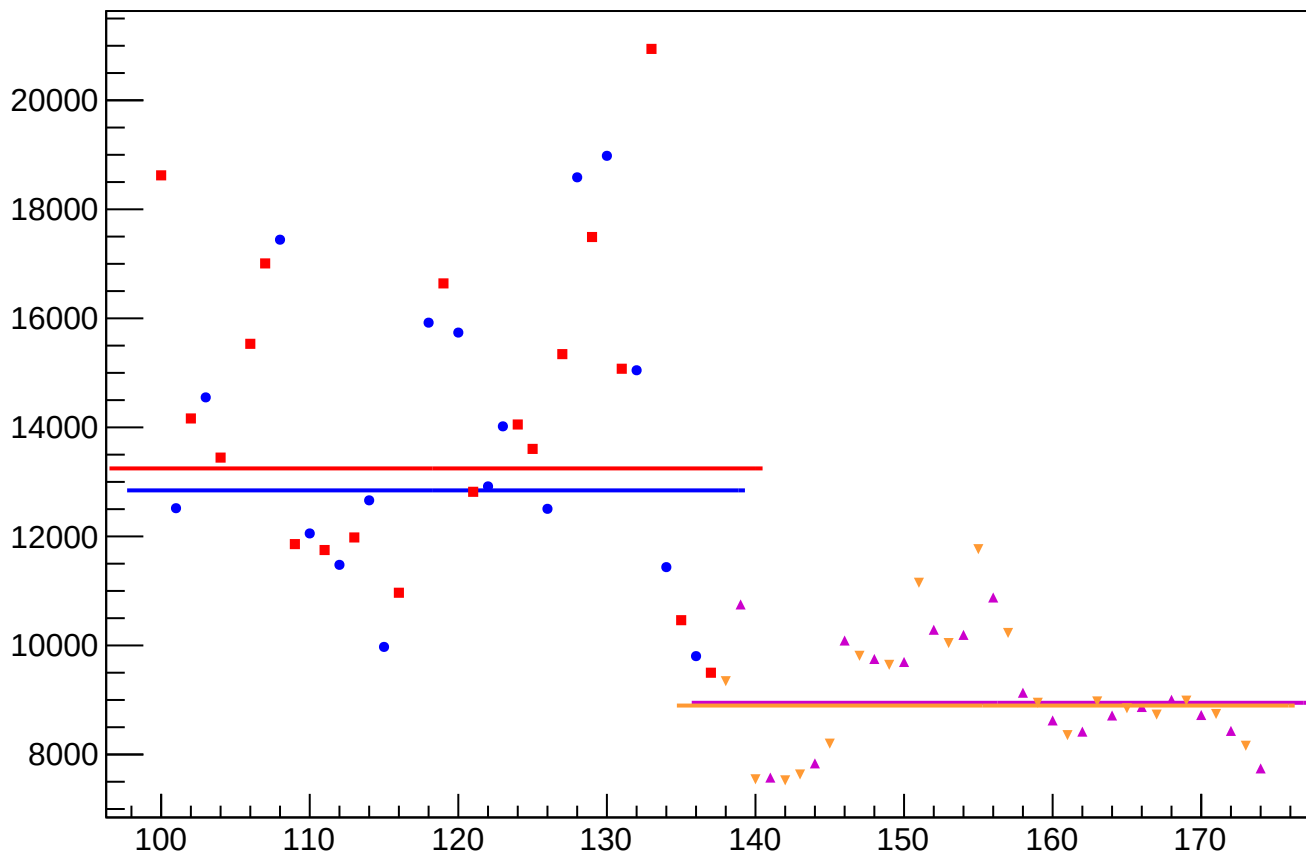
Right: 1.193 $\pm$ 3.590 χ^2/NDF : 40.8/35

In: -0.283 $\pm$ 2.183 χ^2/NDF : 50.0/34

Out: -8.454 $\pm$ 2.156 χ^2/NDF : 79.7/37

All: -4.418 $\pm$ 1.534 χ^2/NDF : 136.8/72

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12844.321 $\pm$ 3.595 χ^2/NDF : 547271.0/16

Left Out: 8897.522 $\pm$ 1.685 χ^2/NDF :378569.3/18

Right Out: 13247.253 $\pm$ 3.585 χ^2/NDF : 485481.6/18

Left In: 8948.180 $\pm$ 1.709 χ^2/NDF :323311.0/17

Left: 8922.491 $\pm$ 1.200 χ^2/NDF : 702325.9/36

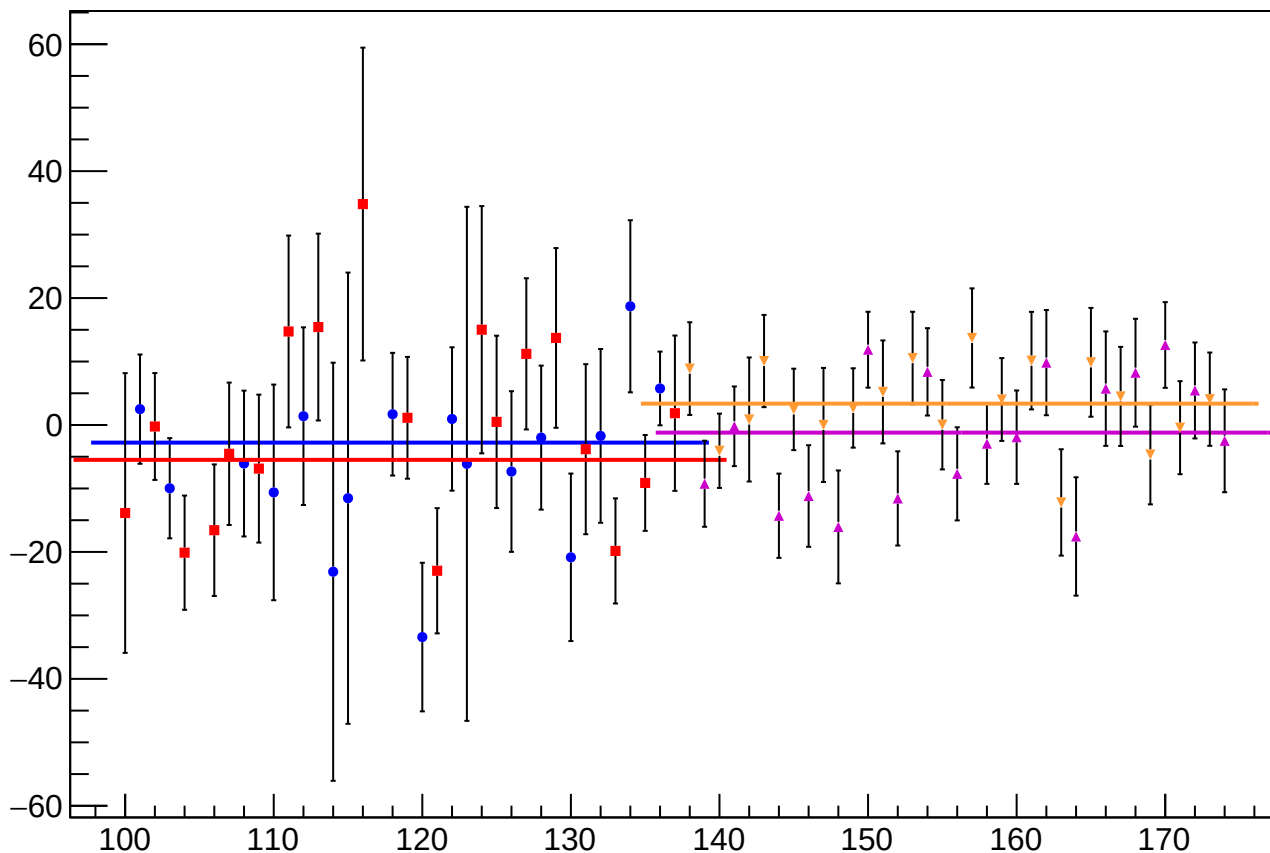
Right: 13046.351 $\pm$ 2.539 χ^2/NDF : 1039049.9/35

In: 9666.199 $\pm$ 1.543 χ^2/NDF :1828448.7/34

Out: 9684.301 $\pm$ 1.525 χ^2/NDF :2069657.9/37

All: 9675.360 $\pm$ 1.085 χ^2/NDF : 3898176.2/72

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 ± 2.732 χ^2/NDF : 15.9/16

Left Out: 3.367 ± 1.695 χ^2/NDF : 12.4/18

Right Out: -5.491 ± 2.587 χ^2/NDF : 23.2/18

Left In: -1.201 ± 1.730 χ^2/NDF : 30.9/17

Left: 1.130 ± 1.211 χ^2/NDF : 46.8/36

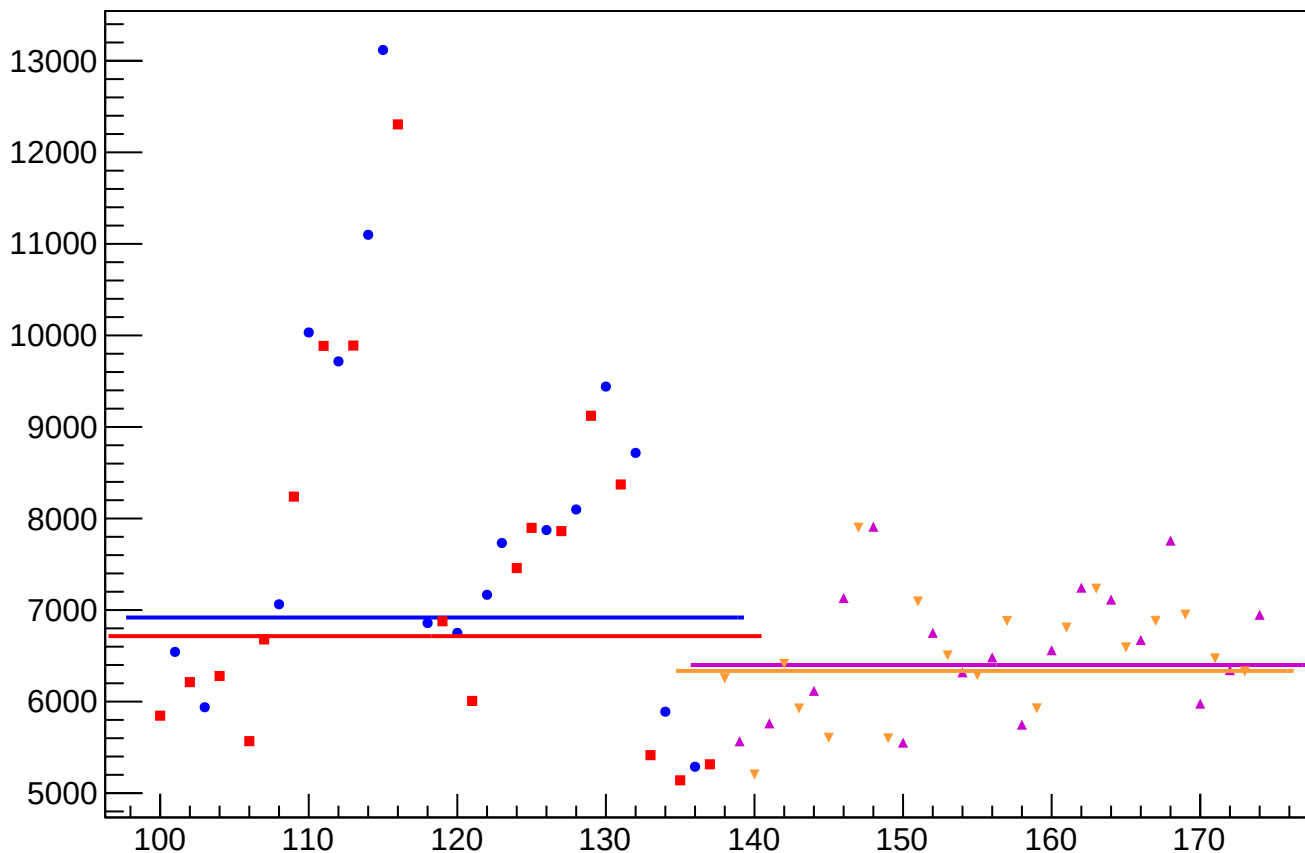
Right: -4.206 ± 1.879 χ^2/NDF : 39.6/35

In: -1.651 ± 1.462 χ^2/NDF : 47.0/34

Out: 0.707 ± 1.418 χ^2/NDF : 43.8/37

All: -0.436 ± 1.018 χ^2/NDF : 92.1/72

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477 ± 1.932 $\chi^2/\text{NDF}: 587039.3/16$

Left Out: 6335.126 ± 1.199 $\chi^2/\text{NDF}: 287143.2/18$

Right Out: 6715.022 ± 1.830 $\chi^2/\text{NDF}: 656010.3/18$

Left In: 6399.526 ± 1.223 $\chi^2/\text{NDF}: 298772.6/17$

Left: 6366.667 ± 0.856 $\chi^2/\text{NDF}: 587329.8/36$

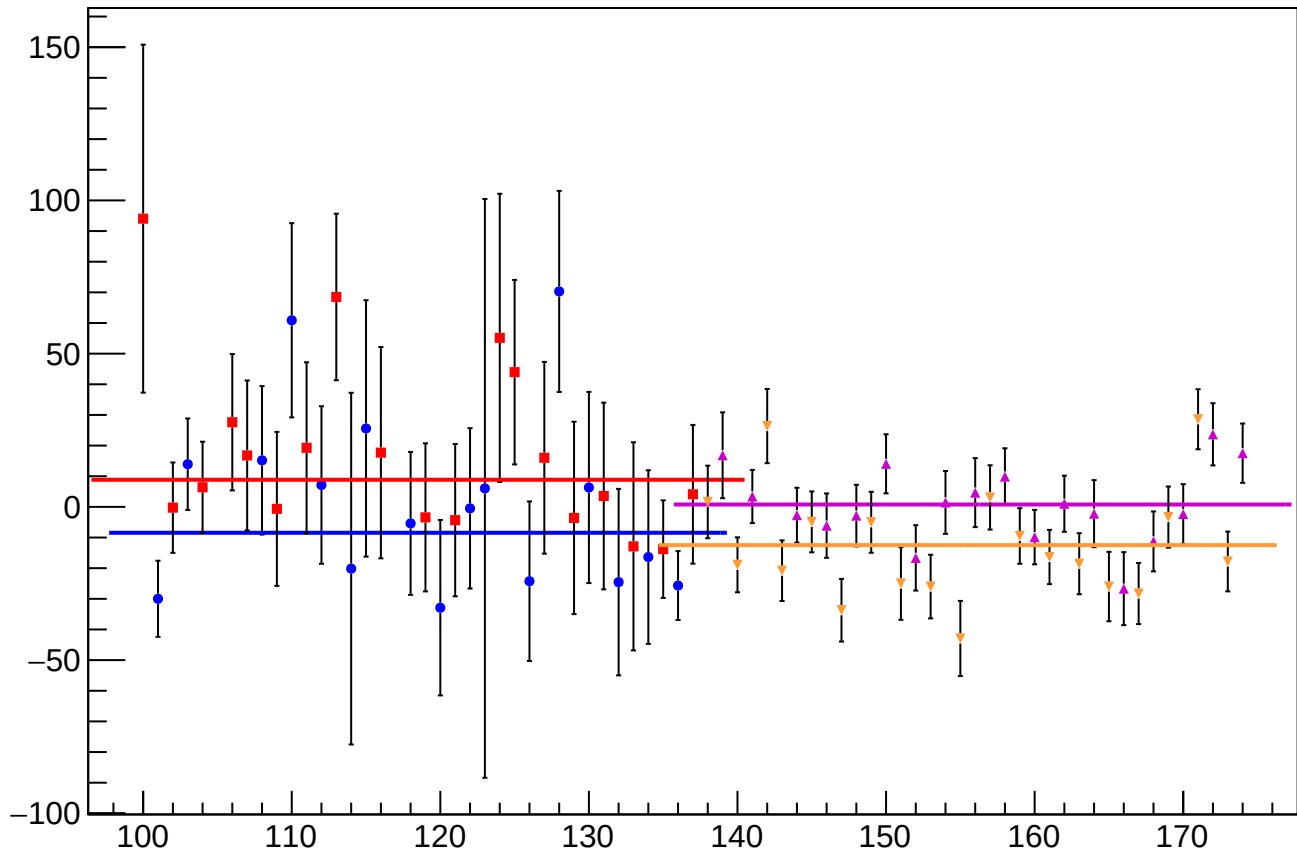
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6548.087 ± 1.033 $\chi^2/\text{NDF}: 937330.4/34$

Out: 6449.198 ± 1.003 $\chi^2/\text{NDF}: 973321.7/37$

All: 6497.141 ± 0.720 $\chi^2/\text{NDF}: 1915368.8/72$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 ± 5.393 $\chi^2/\text{NDF}: 22.0/16$

Left Out: -12.487 ± 2.341 $\chi^2/\text{NDF}: 52.9/18$

Right Out: 8.854 ± 5.508 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.779 ± 2.358 $\chi^2/\text{NDF}: 24.3/17$

Left: -5.901 ± 1.661 $\chi^2/\text{NDF}: 93.2/36$

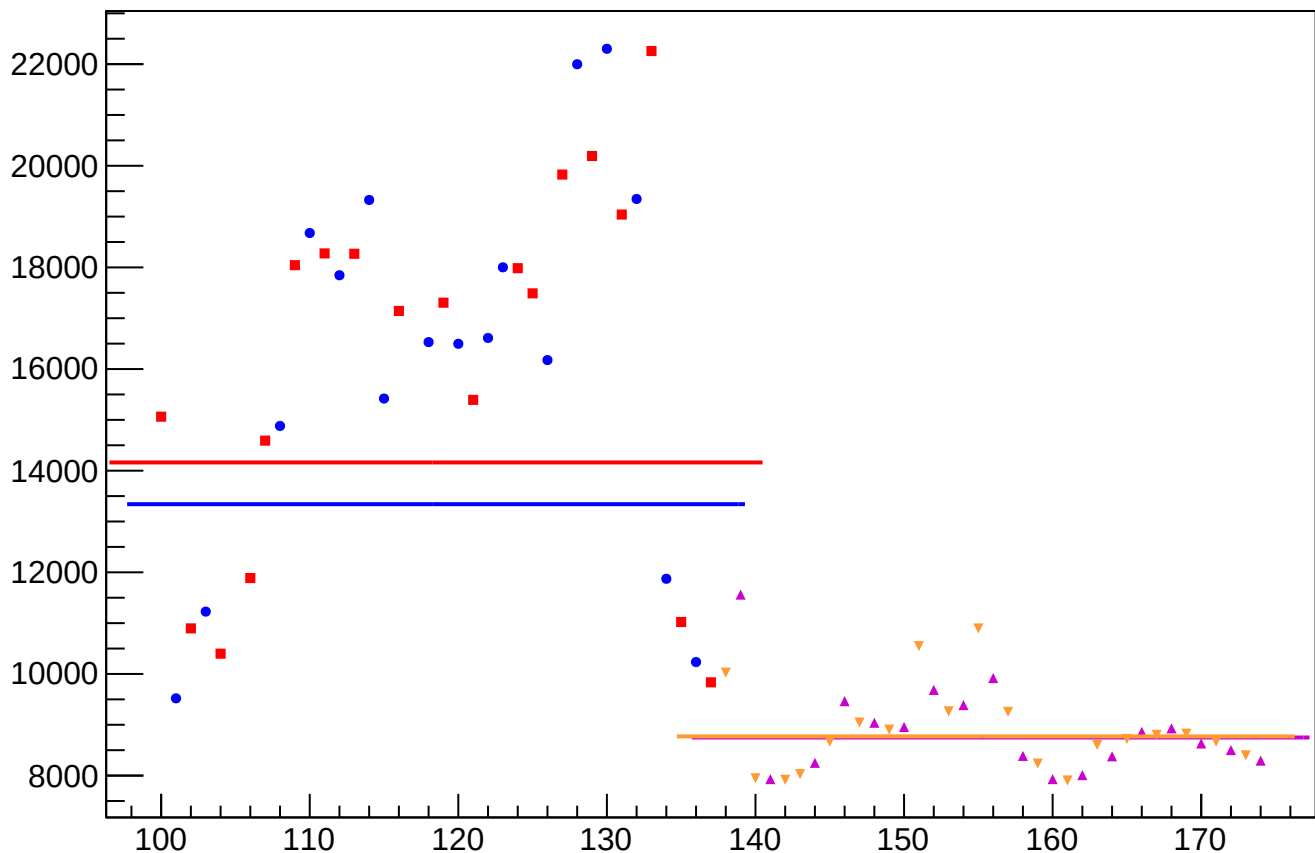
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: -0.701 ± 2.160 $\chi^2/\text{NDF}: 48.8/34$

Out: -9.222 ± 2.155 $\chi^2/\text{NDF}: 79.8/37$

All: -4.973 ± 1.526 $\chi^2/\text{NDF}: 136.4/72$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13340.948 $\pm$ 3.813 χ^2 /NDF: 1044569.8/16

Left Out: 8771.790 $\pm$ 1.655 χ^2 /NDF:206334.2/18

Right Out: 14161.826 $\pm$ 3.895 χ^2 /NDF: 931787.3/18

Left In: 8749.434 $\pm$ 1.667 χ^2 /NDF:203382.7/17

Left: 8760.691 $\pm$ 1.175 χ^2 /NDF: 409807.4/36

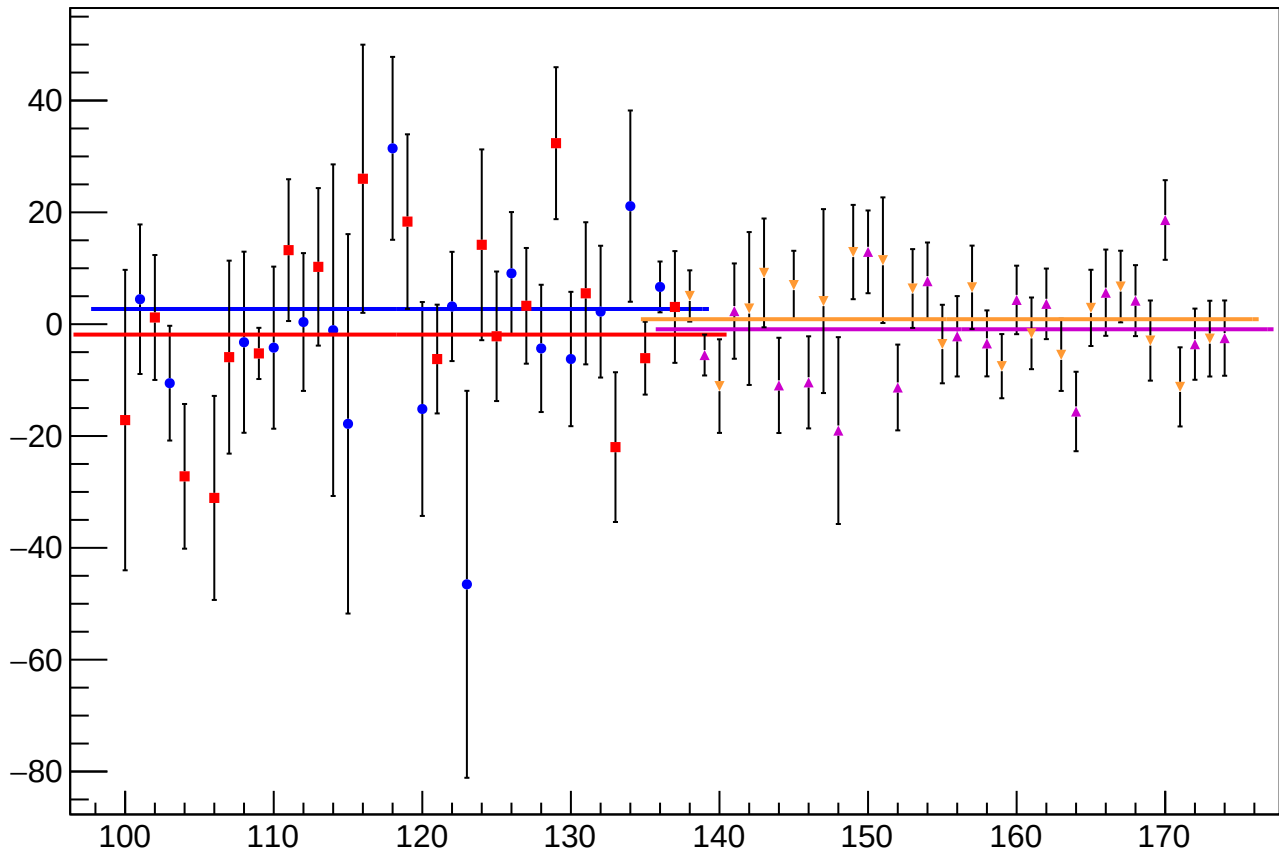
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9486.223 $\pm$ 1.528 χ^2 /NDF:2465065.5/34

Out: 9596.518 $\pm$ 1.524 χ^2 /NDF:2760104.1/37

All: 9541.515 $\pm$ 1.079 χ^2 /NDF: 5227783.0/72

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 $\chi^2/\text{NDF}: 11.6/16$

Left Out: 0.891 ± 1.634 $\chi^2/\text{NDF}: 16.8/18$

Right Out: -1.861 ± 2.439 $\chi^2/\text{NDF}: 23.5/18$

Left In: -0.910 ± 1.572 $\chi^2/\text{NDF}: 27.4/17$

Left: -0.044 ± 1.133 $\chi^2/\text{NDF}: 44.8/36$

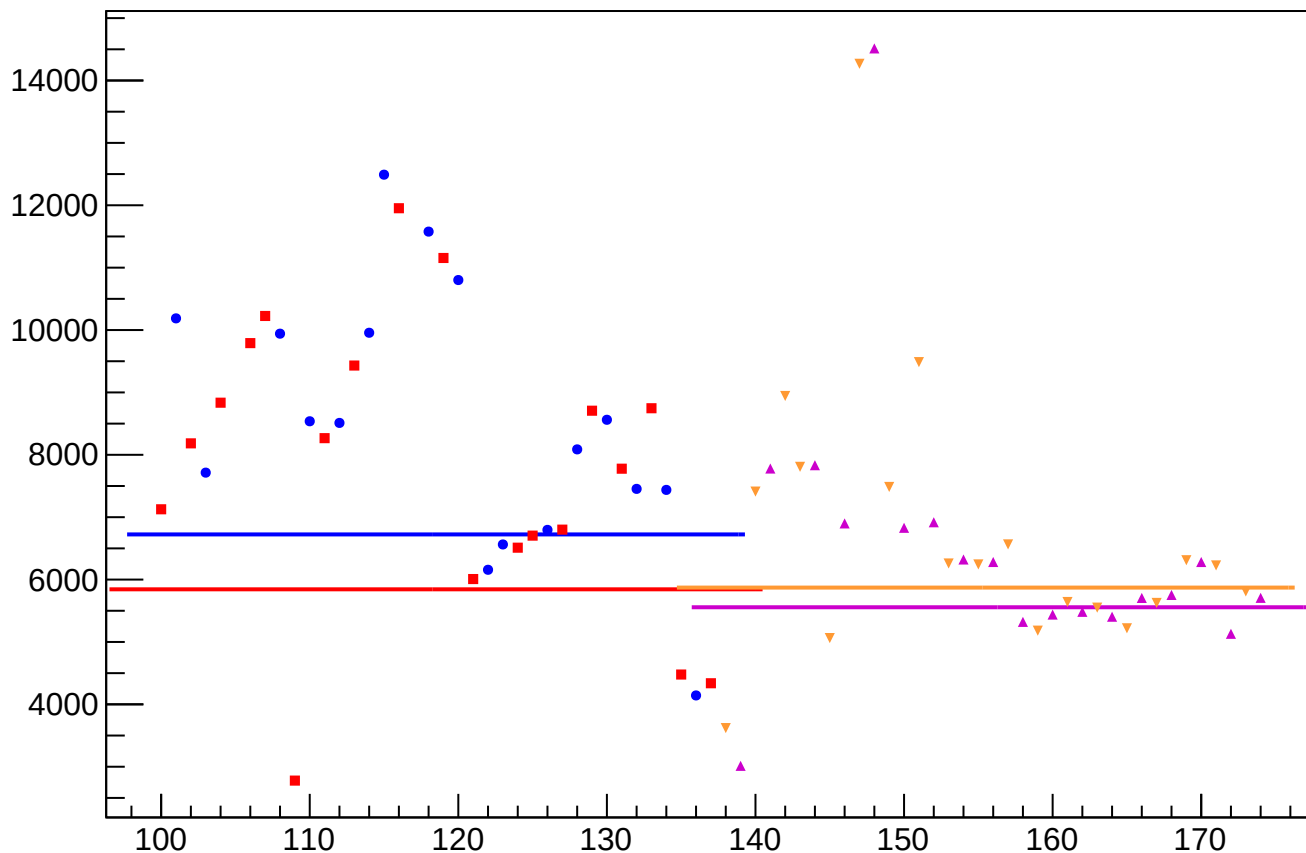
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: -0.017 ± 1.365 $\chi^2/\text{NDF}: 40.4/34$

Out: 0.038 ± 1.358 $\chi^2/\text{NDF}: 41.2/37$

All: 0.010 ± 0.963 $\chi^2/\text{NDF}: 81.6/72$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839+/-1.946 χ^2/NDF : 1392082.5/16

Left Out: 5871.596+/-1.156 χ^2/NDF : 1667008.4/18

Right Out: 5843.829+/-1.725 χ^2/NDF : 2277223.8/18

Left In: 5556.256+/-1.112 χ^2/NDF : 2080211.7/17

Left: 5707.806+/-0.801 χ^2/NDF : 3785893.8/36

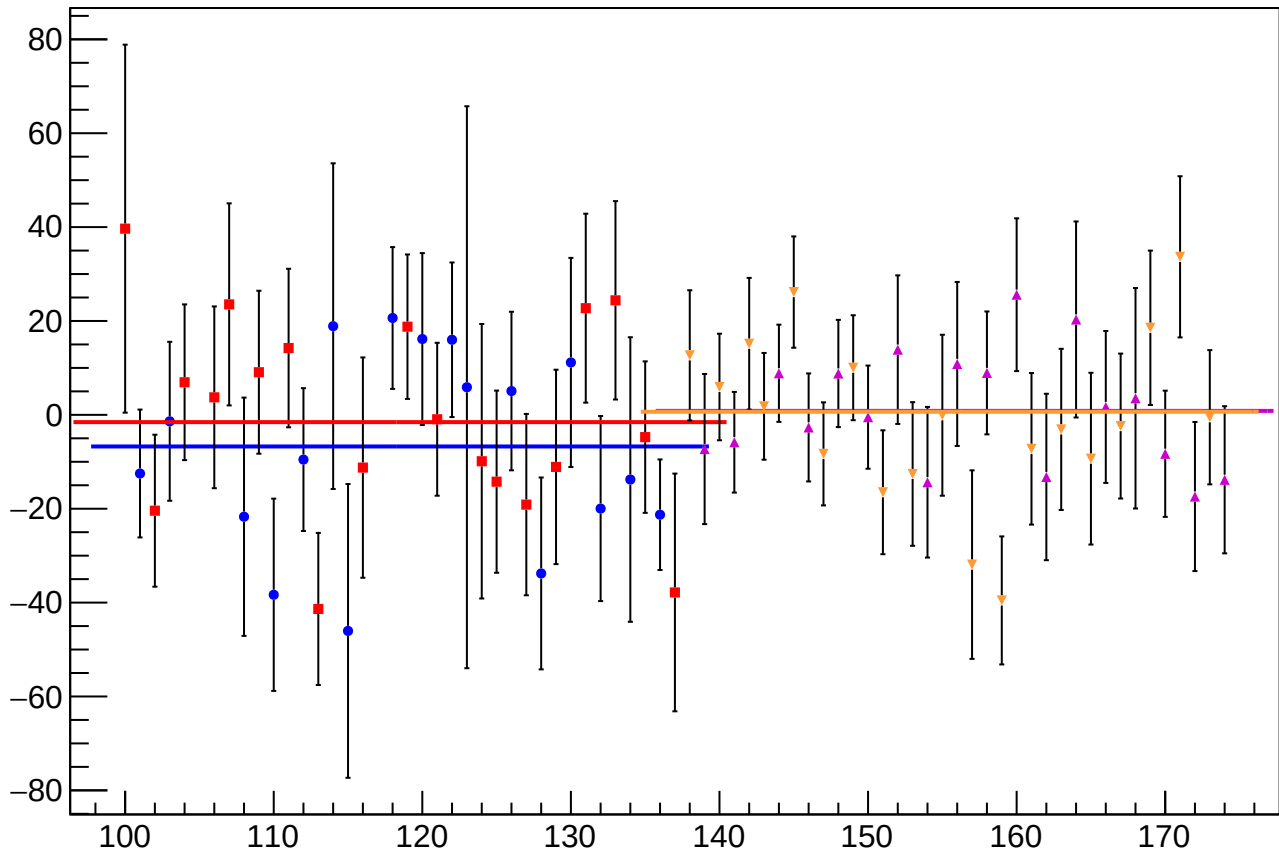
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5843.521+/-0.965 χ^2/NDF : 3743720.5/34

Out: 5862.991+/-0.960 χ^2/NDF : 3944411.1/37

All: 5853.309+/-0.681 χ^2/NDF : 7688336.2/72

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 ± 4.513 $\chi^2/\text{NDF}: 16.9/16$

Left Out: 0.661 ± 3.213 $\chi^2/\text{NDF}: 27.3/18$

Right Out: -1.549 ± 4.372 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.846 ± 3.317 $\chi^2/\text{NDF}: 10.6/17$

Left: 0.750 ± 2.308 $\chi^2/\text{NDF}: 37.9/36$

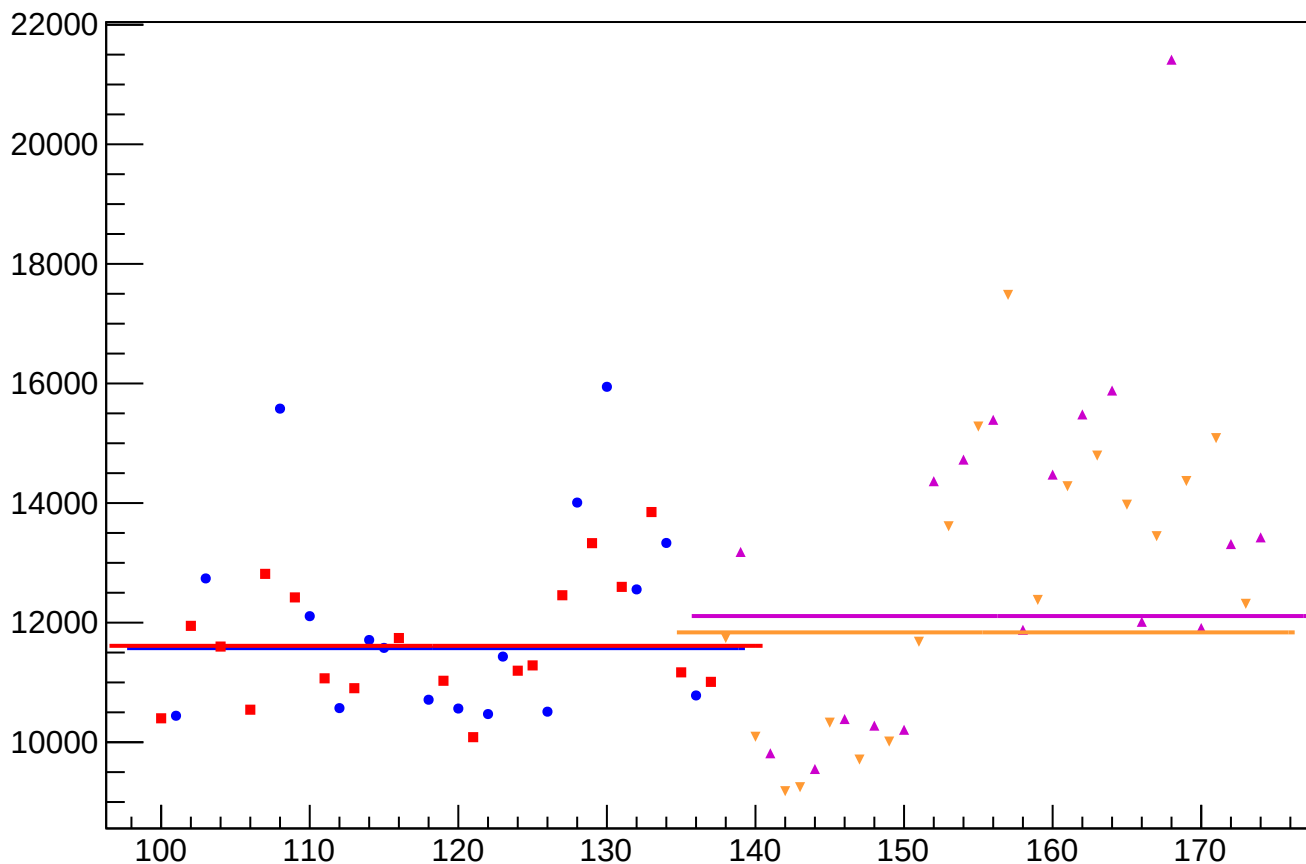
Right: -4.061 ± 3.140 $\chi^2/\text{NDF}: 37.5/35$

In: -1.814 ± 2.673 $\chi^2/\text{NDF}: 29.3/34$

Out: -0.114 ± 2.589 $\chi^2/\text{NDF}: 47.4/37$

All: -0.937 ± 1.860 $\chi^2/\text{NDF}: 77.0/72$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.490 $\pm$ 3.191 χ^2 /NDF: 238734.7/16

Left Out: 11837.051 $\pm$ 2.272 χ^2 /NDF: 927880.0/18

Right Out: 11612.220 $\pm$ 3.092 χ^2 /NDF: 94308.1/18

Left In: 12110.307 $\pm$ 2.346 χ^2 /NDF: 1063852.8/17

Left: 11969.328 $\pm$ 1.632 χ^2 /NDF: 1998733.6/36

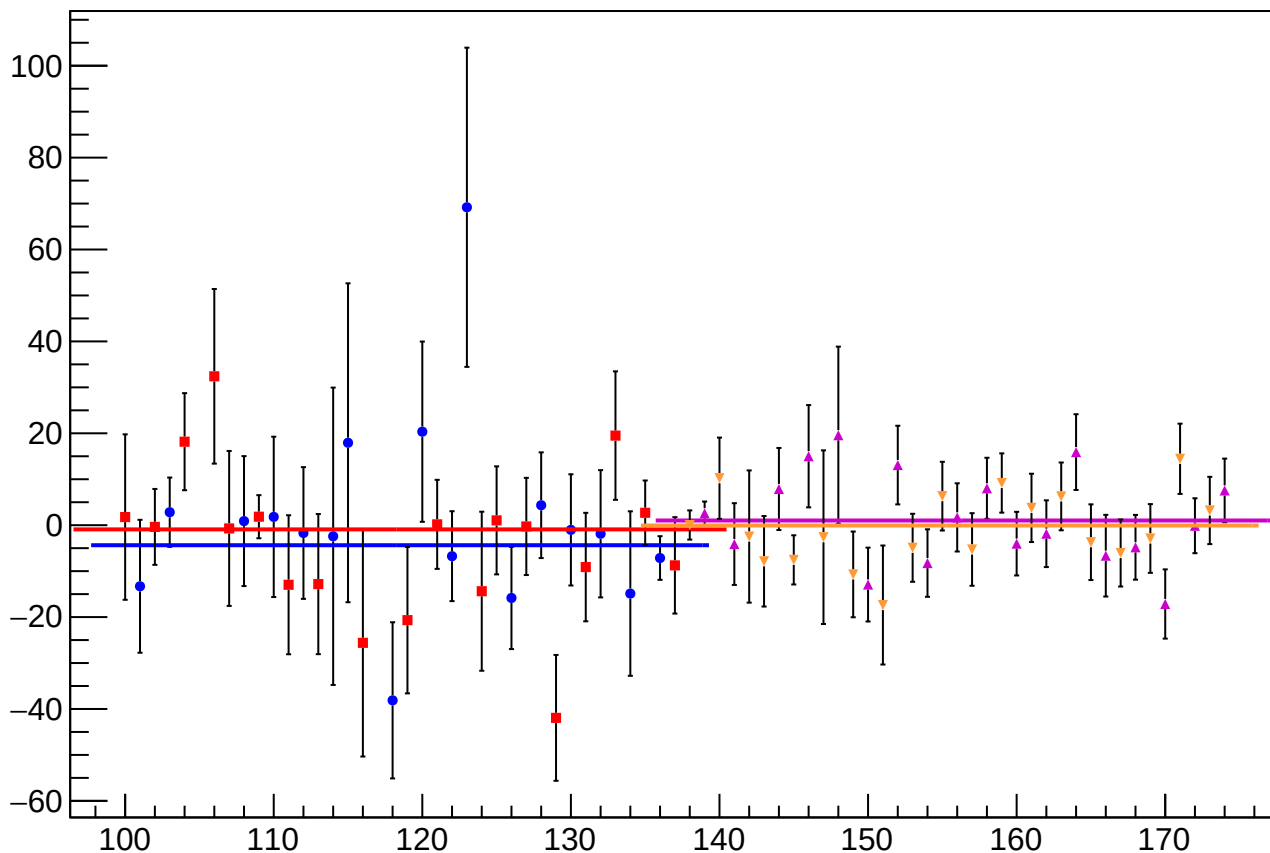
Right: 11593.467 $\pm$ 2.220 χ^2 /NDF: 333118.8/35

In: 11921.988 $\pm$ 1.890 χ^2 /NDF: 1320959.0/34

Out: 11758.201 $\pm$ 1.831 χ^2 /NDF: 1025621.7/37

All: 11837.493 $\pm$ 1.315 χ^2 /NDF: 2350454.7/71

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 ± 2.776 χ^2/NDF : 14.5/16

Left Out: -0.067 ± 1.618 χ^2/NDF : 16.5/18

Right Out: -0.914 ± 2.426 χ^2/NDF : 23.5/18

Left In: 1.022 ± 1.524 χ^2/NDF : 23.6/17

Left: 0.510 ± 1.109 χ^2/NDF : 40.4/36

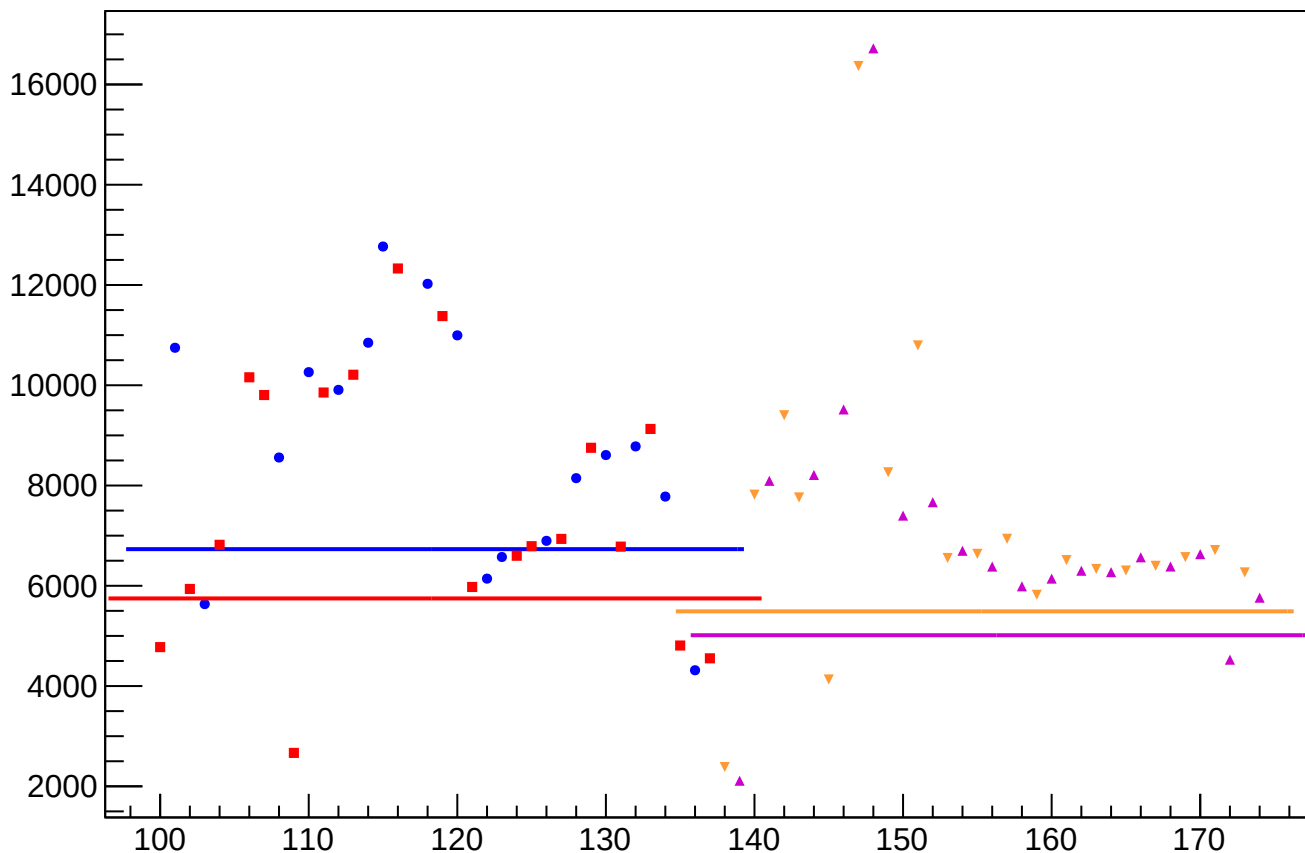
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: -0.224 ± 1.336 χ^2/NDF : 41.0/34

Out: -0.328 ± 1.346 χ^2/NDF : 40.2/37

All: -0.276 ± 0.948 χ^2/NDF : 81.2/72

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 $\pm$ 1.963

χ^2 /NDF: 1445240.4/16

Left Out: 5489.983 $\pm$ 1.144

χ^2 /NDF: 3997651.9/18

Right Out: 5747.643 $\pm$ 1.716

χ^2 /NDF: 2162236.7/18

Left In: 5013.695 $\pm$ 1.078

χ^2 /NDF: 5142195.6/17

Left: 5237.548 $\pm$ 0.784

χ^2 /NDF: 9231675.0/36

Right: 6173.310 $\pm$ 1.292

χ^2 /NDF: 3749669.1/35

In: 5411.230 $\pm$ 0.945

χ^2 /NDF: 7175321.5/34

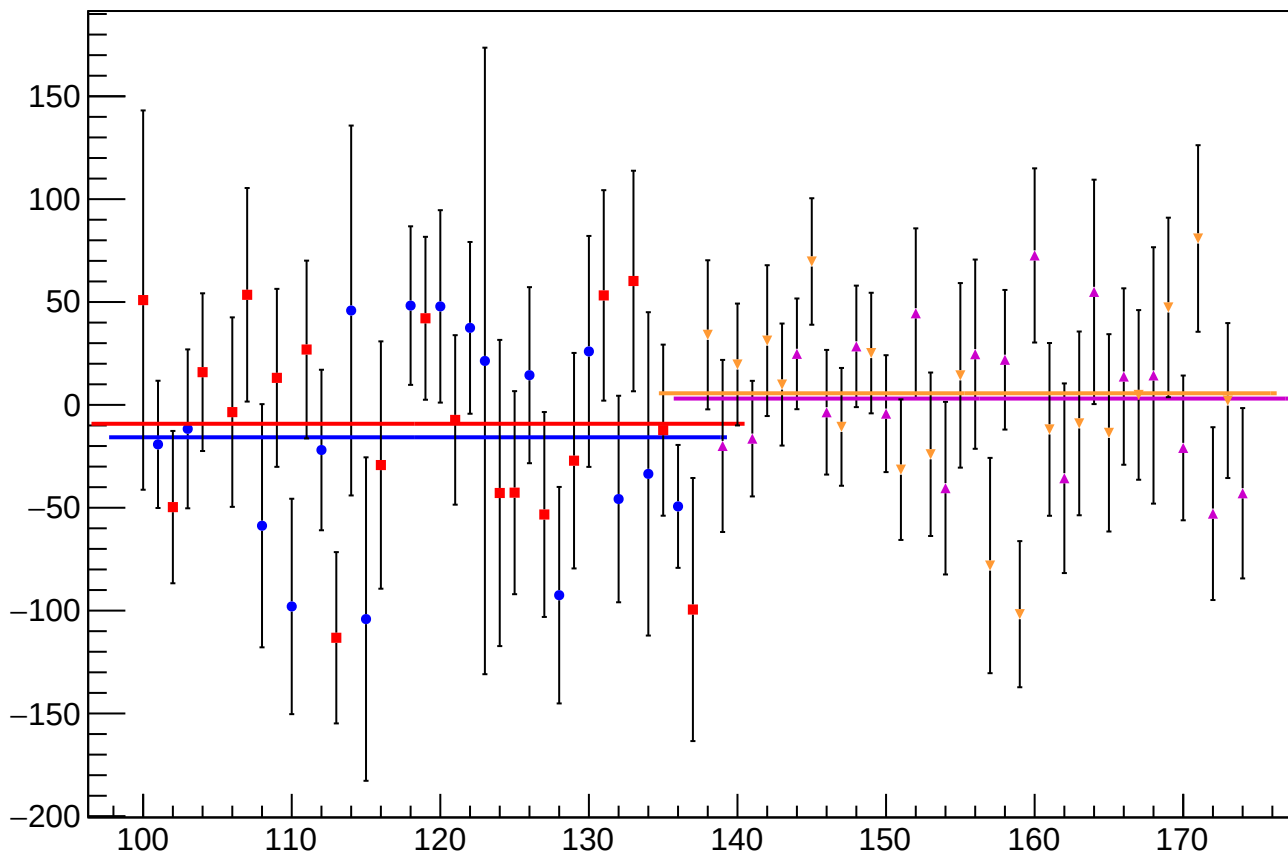
Out: 5569.319 $\pm$ 0.952

χ^2 /NDF: 6175501.2/37

All: 5489.663 $\pm$ 0.671

χ^2 /NDF: 13364719.5/7

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 $\pm$ 11.207 χ^2/NDF : 15.9/16

Left Out: 5.642 $\pm$ 8.399 χ^2/NDF : 24.1/18

Right Out: -9.179 $\pm$ 10.889 χ^2/NDF : 19.3/18

Left In: 3.066 $\pm$ 8.666 χ^2/NDF : 12.8/17

Left: 4.395 $\pm$ 6.031 χ^2/NDF : 36.9/36

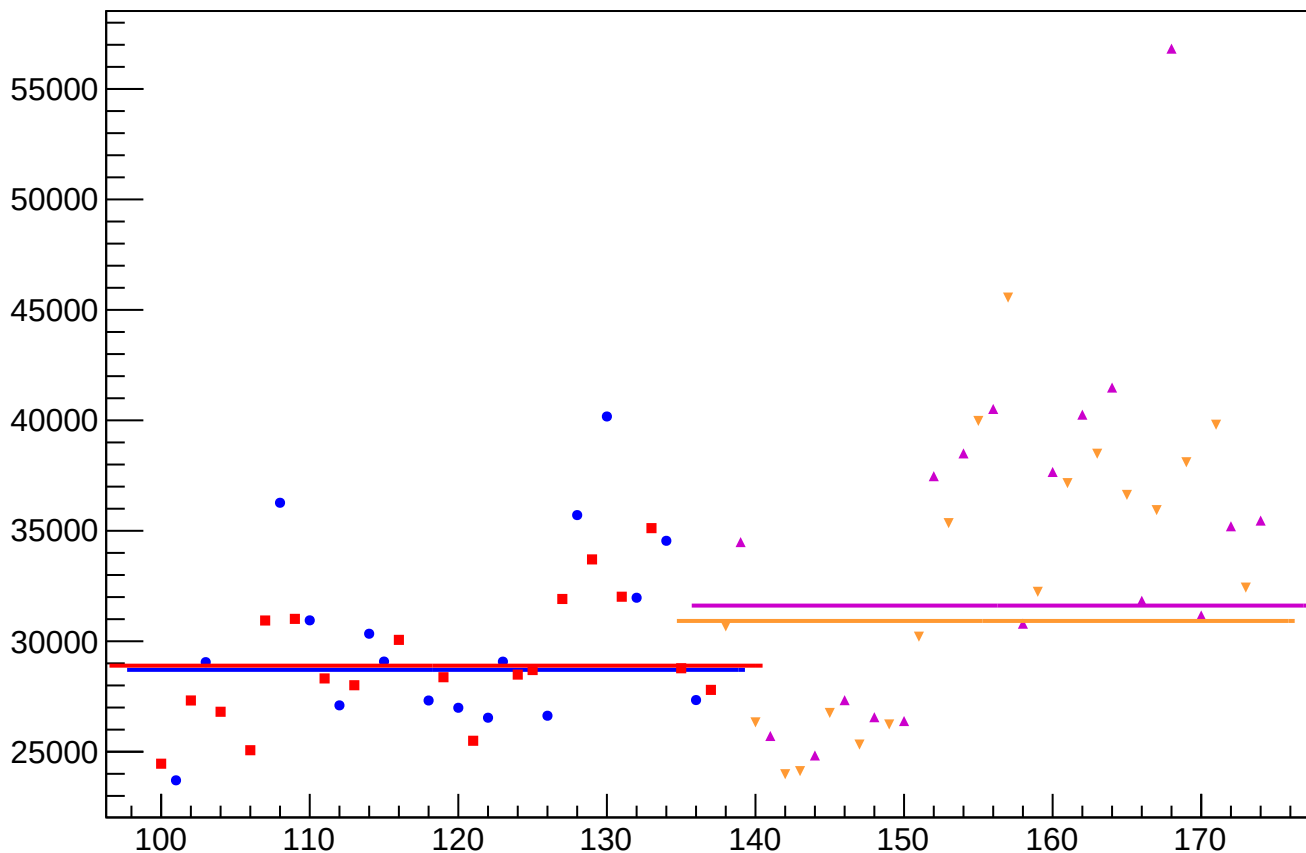
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -3.974 $\pm$ 6.856 χ^2/NDF : 30.5/34

Out: 0.114 $\pm$ 6.650 χ^2/NDF : 44.5/37

All: -1.868 $\pm$ 4.773 χ^2/NDF : 75.1/72

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925

χ^2/NDF : 250992.5/16

Left Out: 30920.023+/-5.939

χ^2/NDF : 949072.9/18

Right Out: 28895.535+/-7.700

χ^2/NDF : 111212.6/18

Left In: 31614.998+/-6.128

χ^2/NDF : 1097514.6/17

Left: 31256.621+/-4.265

χ^2/NDF : 2053220.4/36

Right: 28803.288+/-5.522

χ^2/NDF : 362500.7/35

In: 30526.360+/-4.848

χ^2/NDF : 1432856.6/34

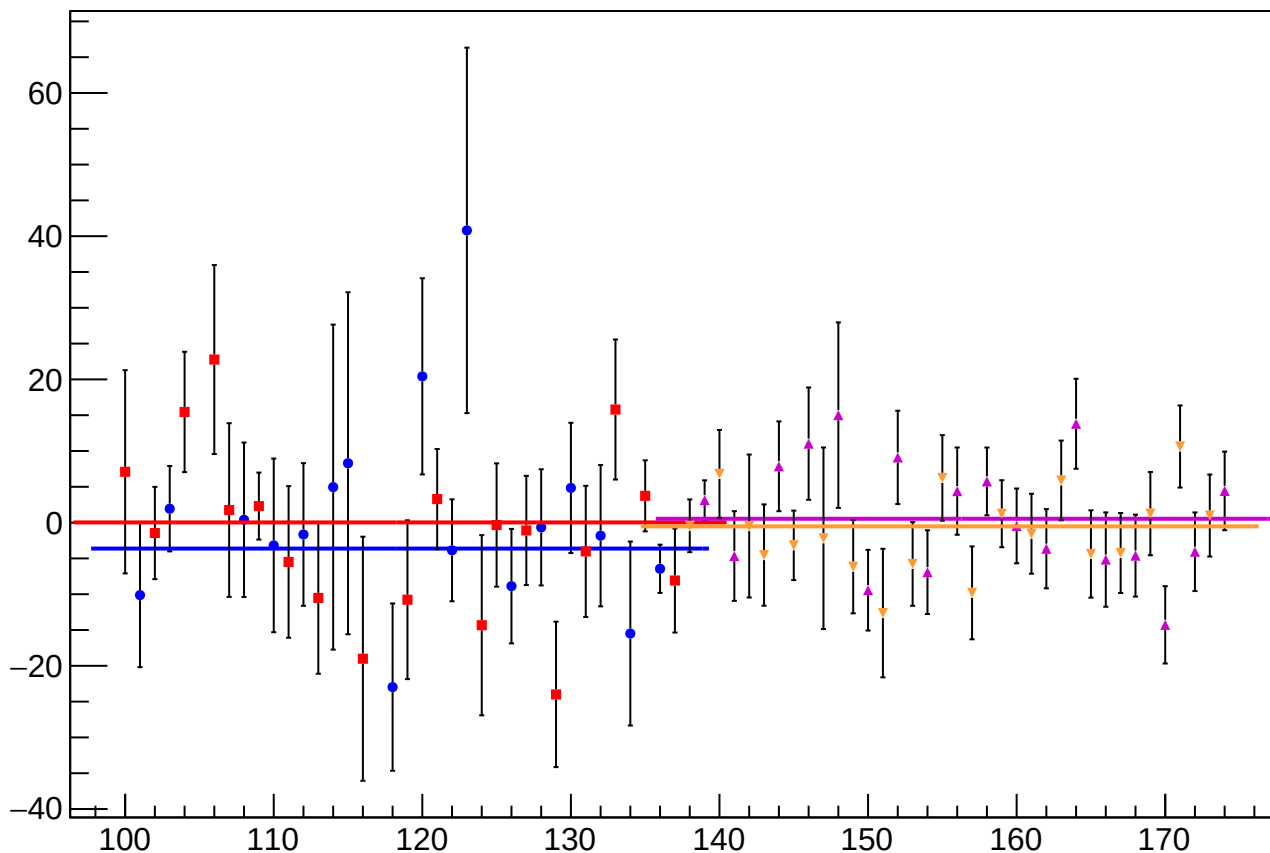
Out: 30164.912+/-4.702

χ^2/NDF : 1103631.3/37

All: 30340.144+/-3.375

χ^2/NDF : 2539352.2/71

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 $\pm$ 2.006 χ^2/NDF : 13.7/16

Left Out: -0.526 $\pm$ 1.342 χ^2/NDF : 15.1/18

Right Out: 0.027 $\pm$ 1.890 χ^2/NDF : 22.1/18

Left In: 0.538 $\pm$ 1.281 χ^2/NDF : 29.4/17

Left: 0.031 $\pm$ 0.927 χ^2/NDF : 44.8/36

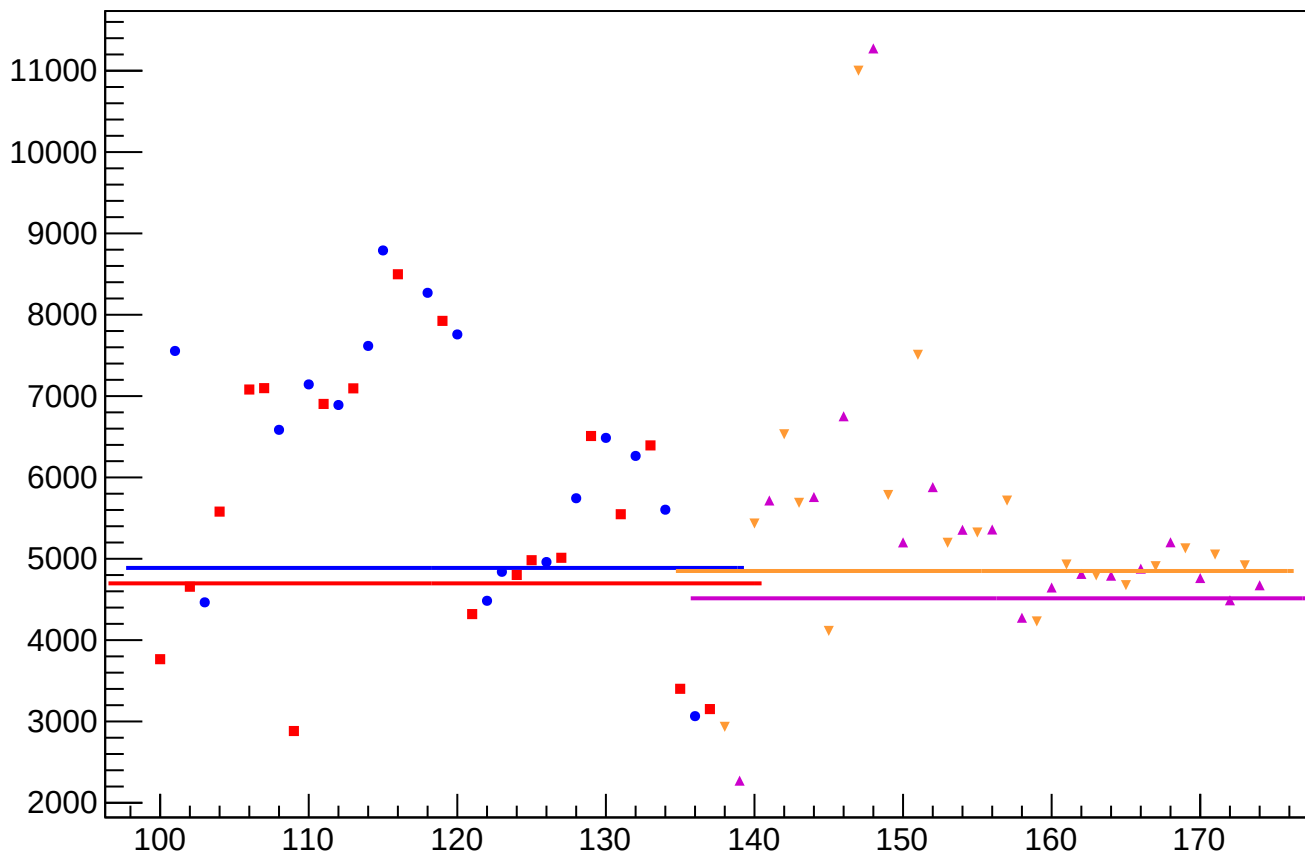
Right: -1.690 $\pm$ 1.376 χ^2/NDF : 37.6/35

In: -0.668 $\pm$ 1.080 χ^2/NDF : 46.2/34

Out: -0.340 $\pm$ 1.094 χ^2/NDF : 37.2/37

All: -0.506 $\pm$ 0.769 χ^2/NDF : 83.5/72

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515 $\pm$ 1.418 χ^2/NDF : 1409296.8/16

Left Out: 4849.963 $\pm$ 0.949 χ^2/NDF : 1476803.6/18

Right Out: 4697.726 $\pm$ 1.336 χ^2/NDF : 1313121.0/18

Left In: 4513.974 $\pm$ 0.906 χ^2/NDF : 2433460.2/17

Left: 4674.235 $\pm$ 0.655 χ^2/NDF : 3975848.5/36

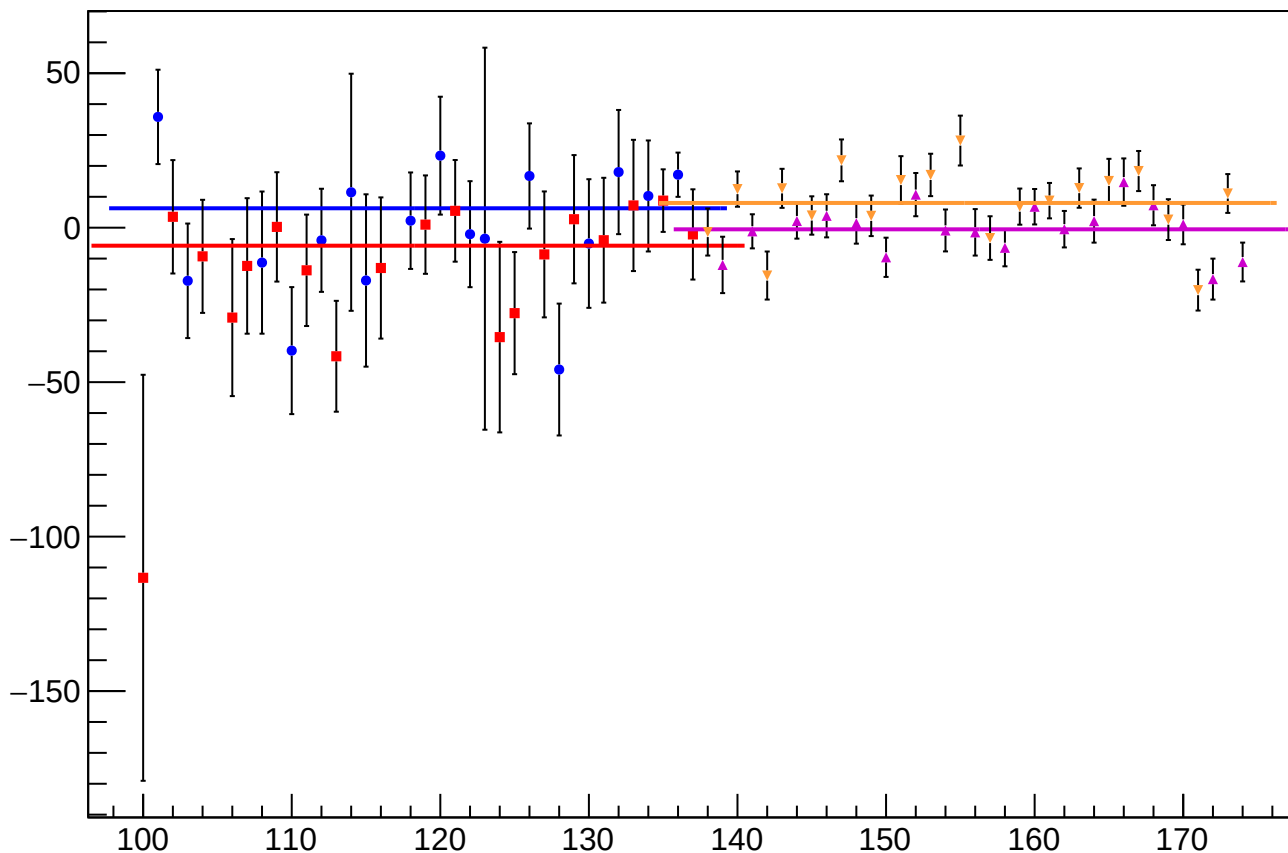
Right: 4786.972 $\pm$ 0.973 χ^2/NDF : 2731901.7/35

In: 4622.226 $\pm$ 0.764 χ^2/NDF : 3892008.9/34

Out: 4798.943 $\pm$ 0.774 χ^2/NDF : 2798552.4/37

All: 4709.428 $\pm$ 0.543 χ^2/NDF : 6716990.1/72

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 $\pm$ 4.064 χ^2 /NDF: 22.5/16

Left Out: 8.008 $\pm$ 1.520 χ^2 /NDF:51.6/18

Right Out: -5.828 $\pm$ 4.219 χ^2 /NDF: 13.8/18

Left In: -0.531 $\pm$ 1.536 χ^2 /NDF:23.9/17

Left: 3.783 $\pm$ 1.081 χ^2 /NDF: 91.2/36

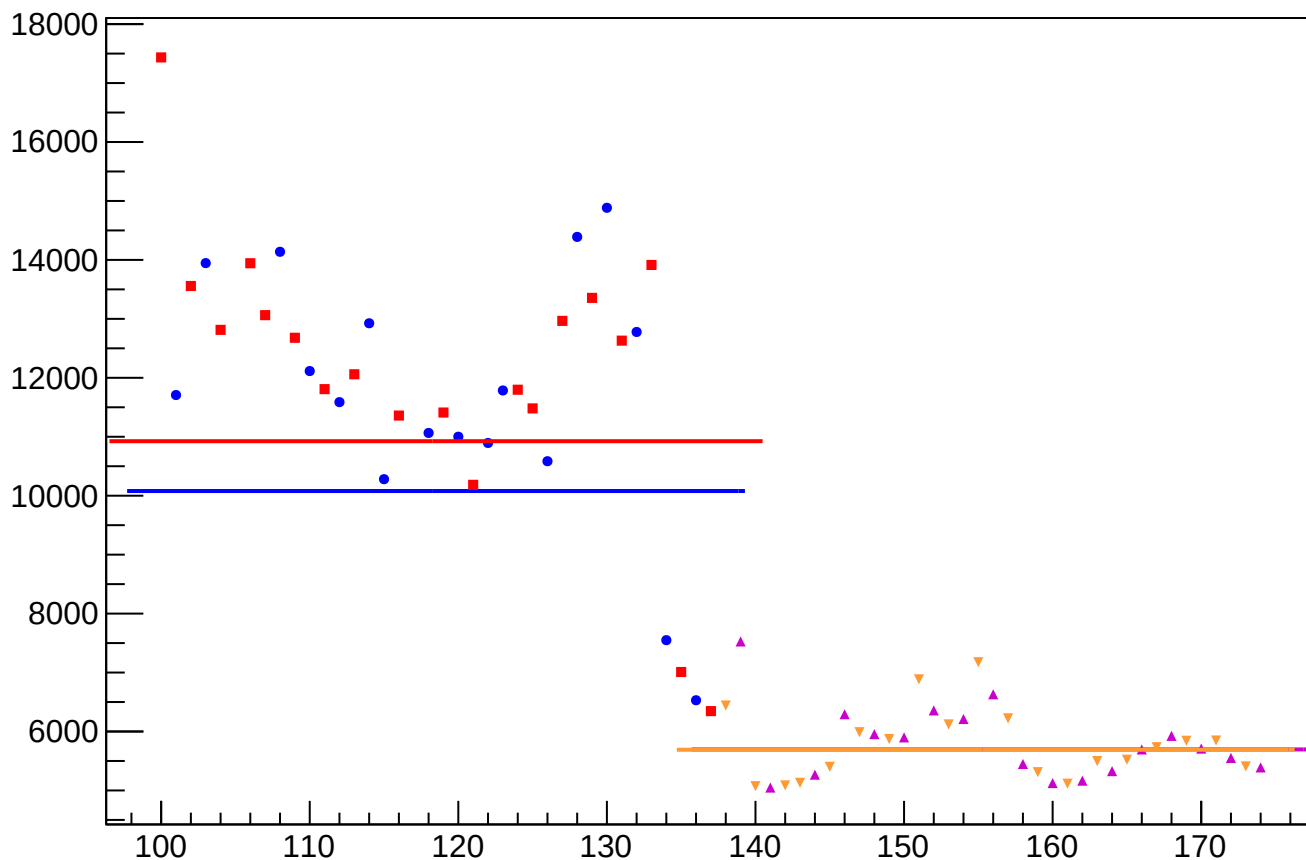
Right: 0.454 $\pm$ 2.927 χ^2 /NDF: 40.6/35

In: 0.321 $\pm$ 1.437 χ^2 /NDF:48.9/34

Out: 6.418 $\pm$ 1.430 χ^2 /NDF:74.9/37

All: 3.383 $\pm$ 1.014 χ^2 /NDF: 132.9/72

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10079.454 $\pm$ 2.874 χ^2 /NDF: 994683.1/16

Left Out: 5690.540 $\pm$ 1.075 χ^2 /NDF:252870.5/18

Right Out: 10924.541 $\pm$ 2.983 χ^2 /NDF: 768447.5/18

Left In: 5695.714 $\pm$ 1.086 χ^2 /NDF:252466.8/17

Left: 5693.101 $\pm$ 0.764 χ^2 /NDF: 505348.8/36

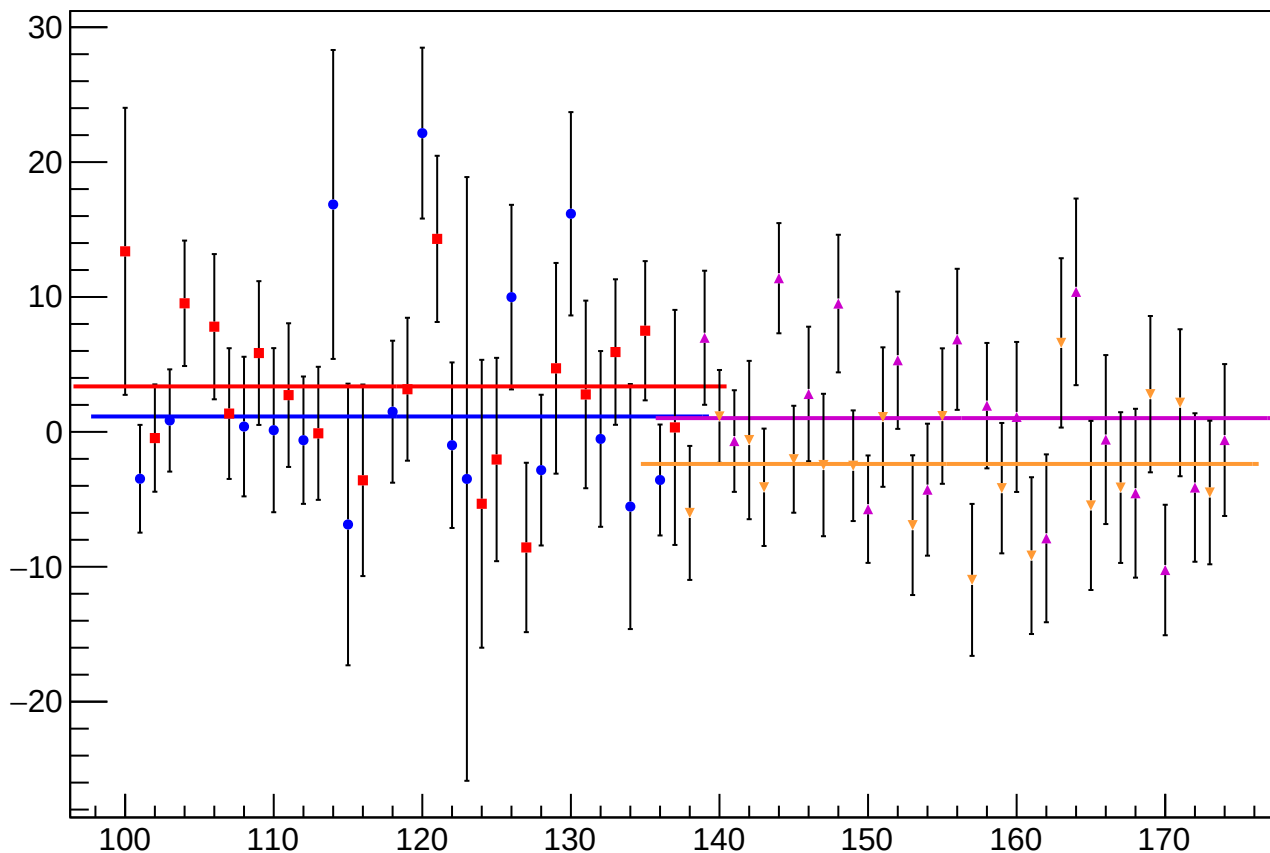
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6243.728 $\pm$ 1.016 χ^2 /NDF:3283195.7/34

Out: 6292.167 $\pm$ 1.011 χ^2 /NDF:3745465.1/37

All: 6268.058 $\pm$ 0.717 χ^2 /NDF: 7029802.3/72

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.142 ± 1.395 $\chi^2/\text{NDF}: 23.2/16$

Left Out: -2.376 ± 1.143 $\chi^2/\text{NDF}: 11.4/18$

Right Out: 3.371 ± 1.333 $\chi^2/\text{NDF}: 15.1/18$

Left In: 1.020 ± 1.184 $\chi^2/\text{NDF}: 28.1/17$

Left: -0.738 ± 0.822 $\chi^2/\text{NDF}: 43.8/36$

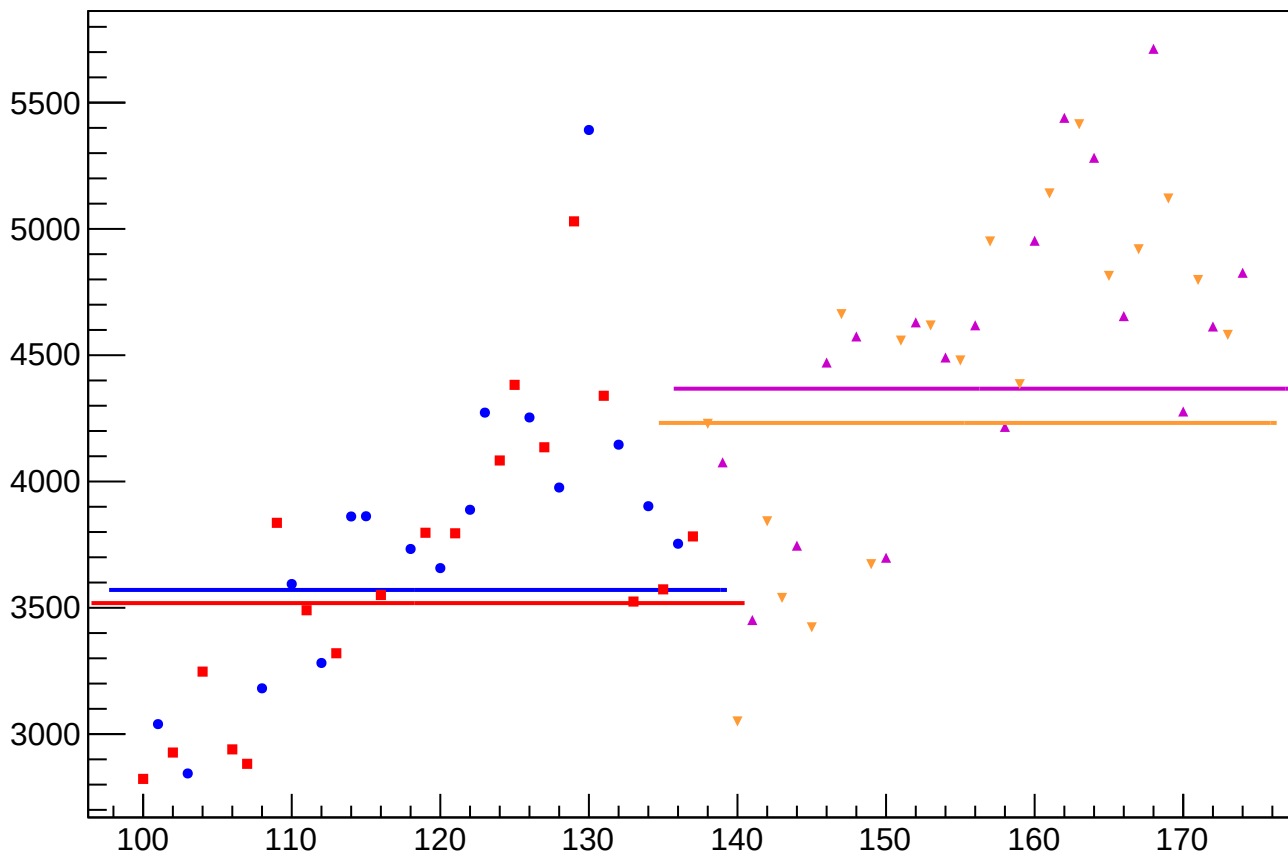
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.071 ± 0.903 $\chi^2/\text{NDF}: 51.4/34$

Out: 0.058 ± 0.868 $\chi^2/\text{NDF}: 37.2/37$

All: 0.545 ± 0.626 $\chi^2/\text{NDF}: 89.3/72$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.707 $\pm$ 0.987 χ^2 /NDF: 309568.0/16

Left Out: 4231.933 $\pm$ 0.808 χ^2 /NDF: 732177.3/18

Right Out: 3518.621 $\pm$ 0.943 χ^2 /NDF: 293227.8/18

Left In: 4367.483 $\pm$ 0.837 χ^2 /NDF: 476483.4/17

Left: 4297.303 $\pm$ 0.581 χ^2 /NDF: 1222229.4/36

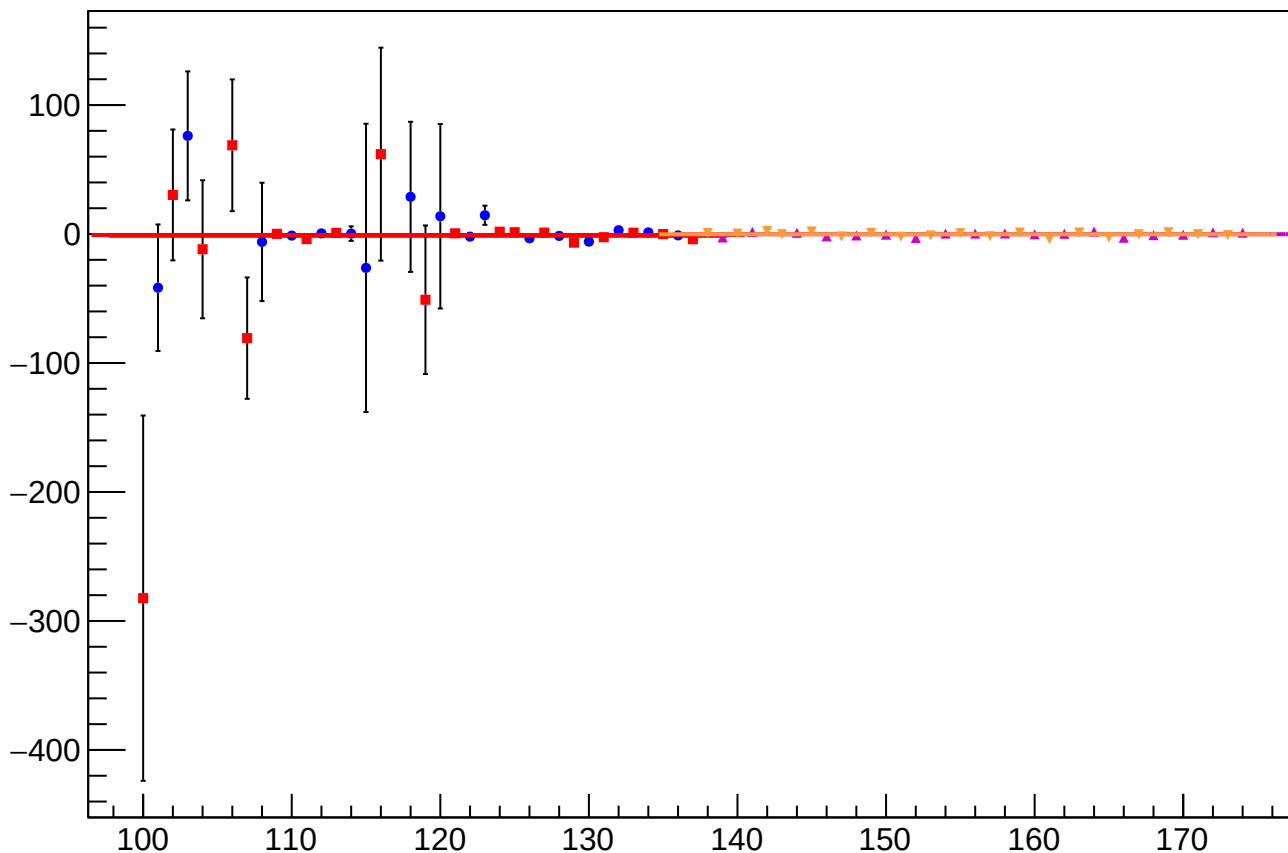
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 4033.862 $\pm$ 0.638 χ^2 /NDF: 1165206.8/34

Out: 3929.780 $\pm$ 0.614 χ^2 /NDF: 1355441.5/37

All: 3979.756 $\pm$ 0.442 χ^2 /NDF: 2534466.7/72

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.261 ± 0.748 χ^2/NDF : 16.3/16

Left Out: -0.196 ± 0.281 χ^2/NDF : 32.0/18

Right Out: -0.733 ± 0.710 χ^2/NDF : 22.1/18

Left In: -0.129 ± 0.283 χ^2/NDF : 24.9/17

Left: -0.163 ± 0.199 χ^2/NDF : 57.0/36

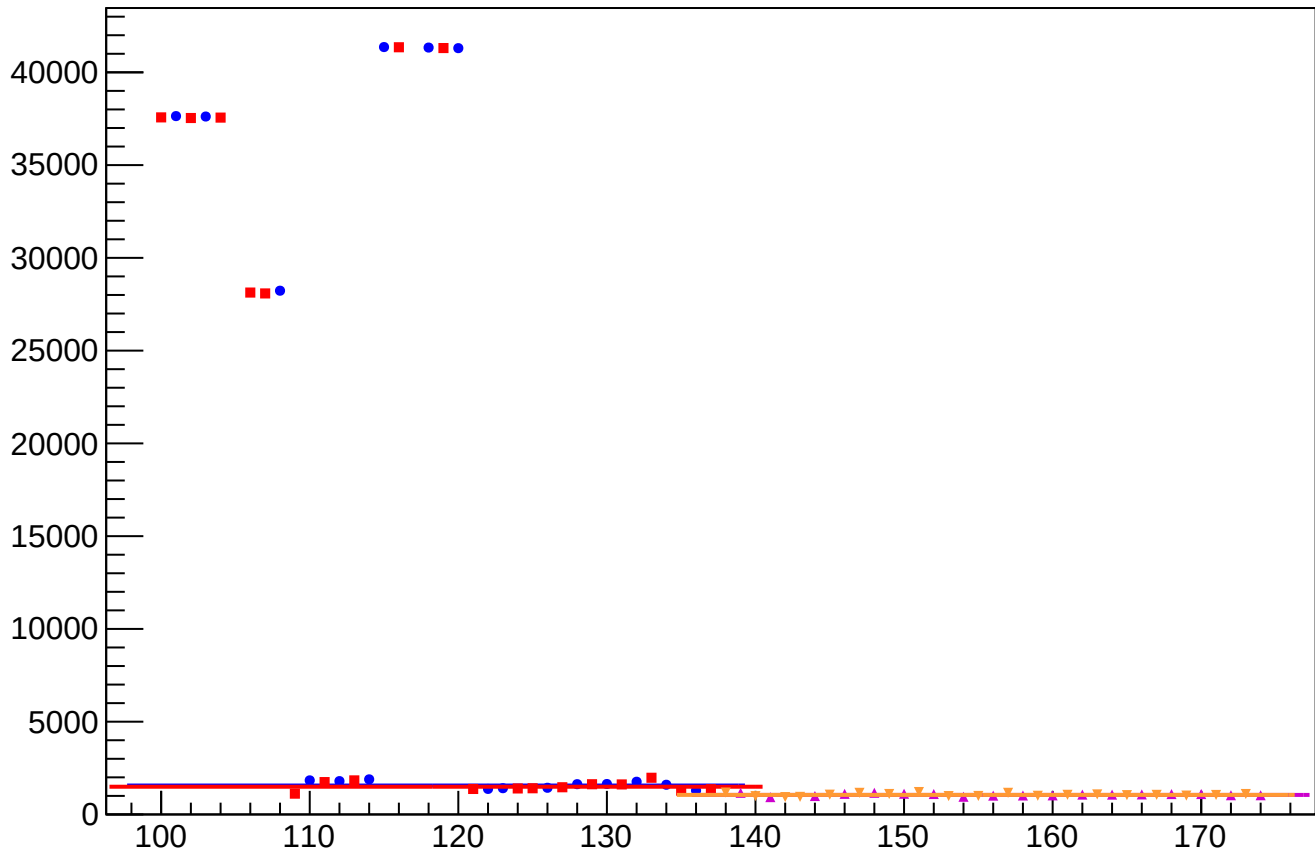
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.271 ± 0.265 χ^2/NDF : 43.2/34

Out: -0.269 ± 0.261 χ^2/NDF : 54.6/37

All: -0.270 ± 0.186 χ^2/NDF : 97.8/72

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1558.988 $\pm$ 0.529 χ^2/NDF : 4753669.7/16

Left Out: 1054.266 $\pm$ 0.199 χ^2/NDF : 134569.5/18

Right Out: 1494.619 $\pm$ 0.502 χ^2/NDF : 4892920.0/18

Left In: 1052.657 $\pm$ 0.200 χ^2/NDF : 105671.0/17

Left: 1053.469 $\pm$ 0.141 χ^2/NDF : 240273.1/36

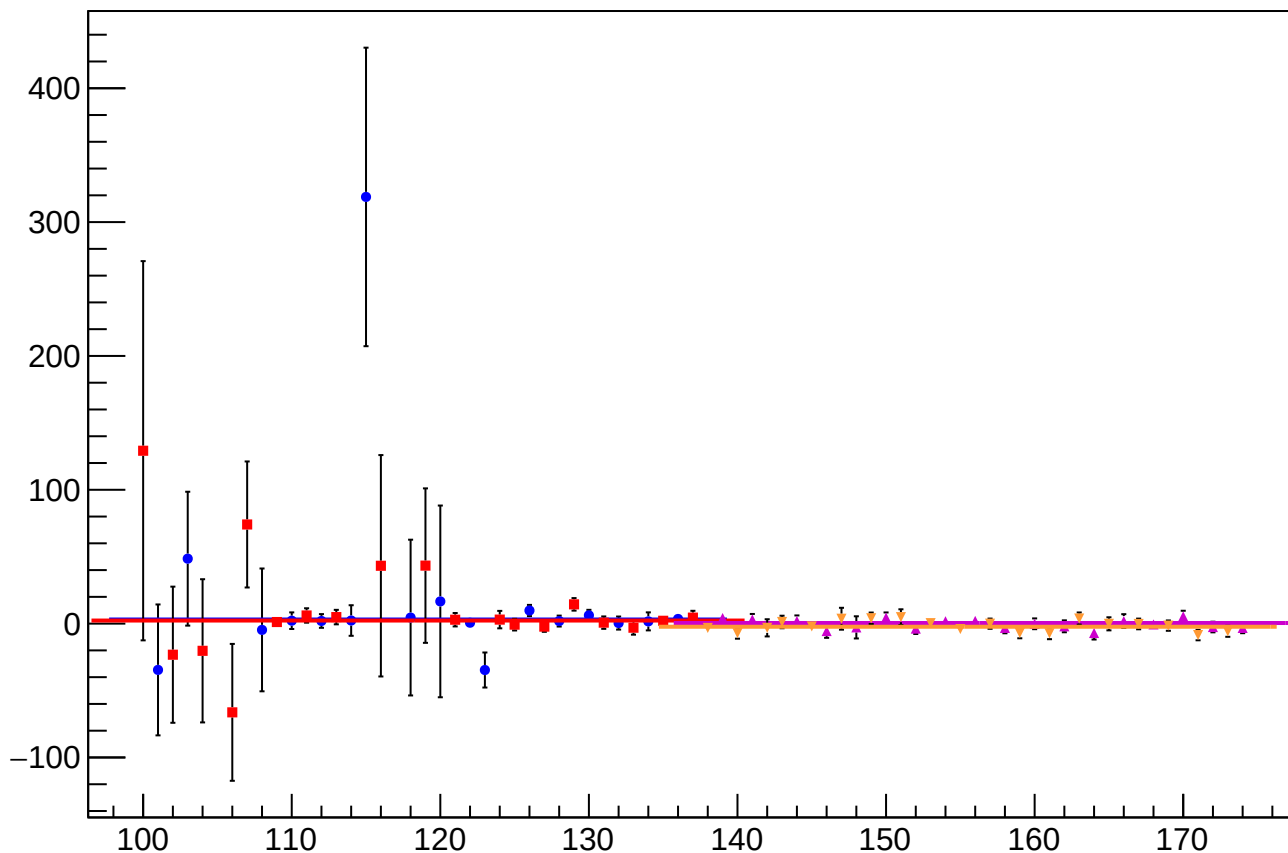
Right: 1525.146 $\pm$ 0.364 χ^2/NDF : 9654379.4/35

In: 1116.152 $\pm$ 0.187 χ^2/NDF : 5661144.8/34

Out: 1113.766 $\pm$ 0.185 χ^2/NDF : 5692322.8/37

All: 1114.942 $\pm$ 0.131 χ^2/NDF : 11353550.0/7

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 ± 1.323 $\chi^2/\text{NDF}: 21.9/16$

Left Out: -2.329 ± 0.920 $\chi^2/\text{NDF}: 15.6/18$

Right Out: 2.306 ± 1.235 $\chi^2/\text{NDF}: 16.9/18$

Left In: 0.460 ± 0.935 $\chi^2/\text{NDF}: 13.6/17$

Left: -0.957 ± 0.656 $\chi^2/\text{NDF}: 33.8/36$

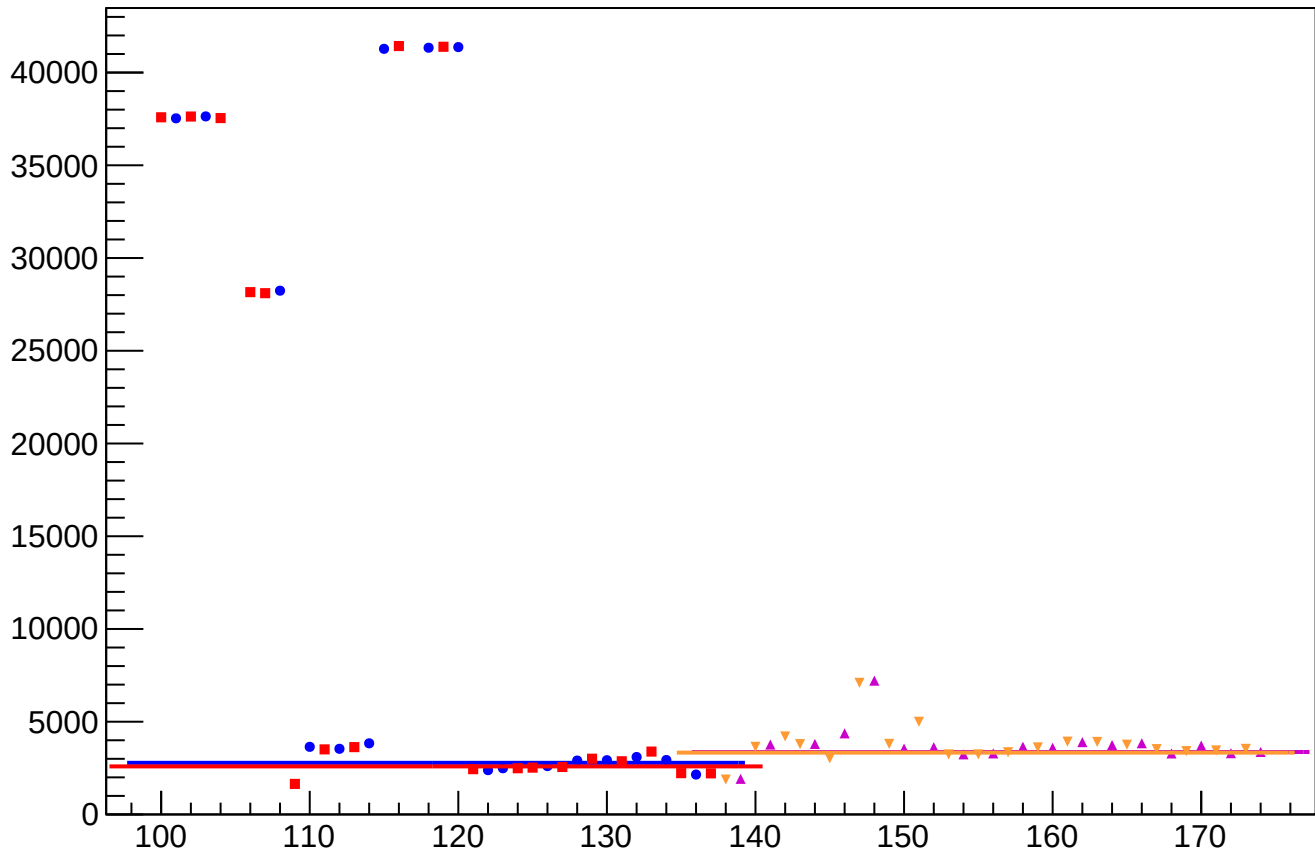
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.330 ± 0.763 $\chi^2/\text{NDF}: 38.1/34$

Out: -0.674 ± 0.738 $\chi^2/\text{NDF}: 41.6/37$

All: 0.294 ± 0.530 $\chi^2/\text{NDF}: 83.3/72$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2783.989+/-0.936 χ^2/NDF : 4577424.2/16

Left Out: 3334.162+/-0.650 χ^2/NDF : 1625430.0/18

Right Out: 2591.161+/-0.873 χ^2/NDF : 4846722.1/18

Left In: 3367.943+/-0.661 χ^2/NDF : 1403558.1/17

Left: 3350.783+/-0.464 χ^2/NDF : 3030315.0/36

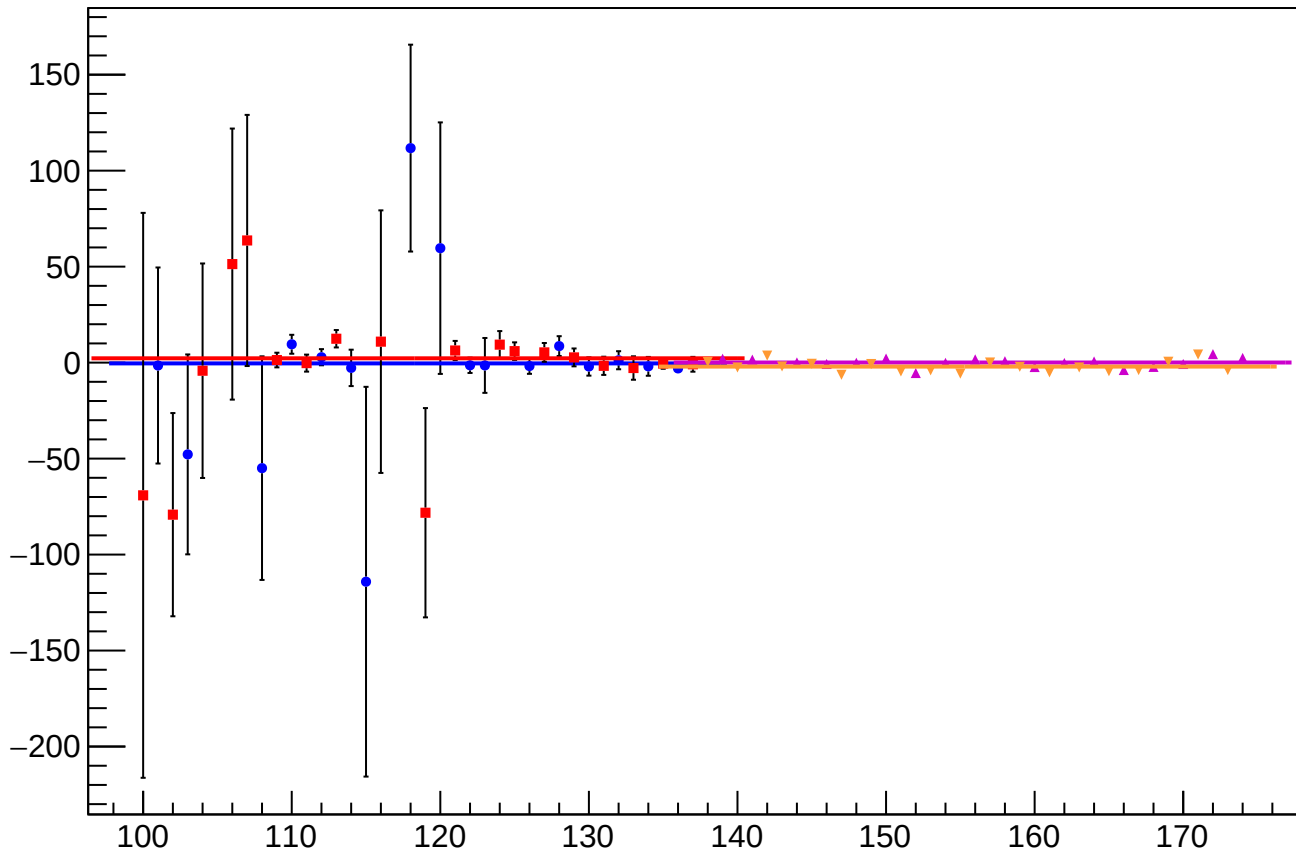
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3173.539+/-0.540 χ^2/NDF : 6240823.5/34

Out: 3068.887+/-0.522 χ^2/NDF : 6937948.2/37

All: 3119.413+/-0.375 χ^2/NDF : 13198206.8/71

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.403 ± 1.218 χ^2/NDF : 18.3/16

Left Out: -2.066 ± 0.443 χ^2/NDF : 38.7/18

Right Out: 2.245 ± 1.246 χ^2/NDF : 17.4/18

Left In: 0.055 ± 0.448 χ^2/NDF : 24.2/17

Left: -1.017 ± 0.315 χ^2/NDF : 74.2/36

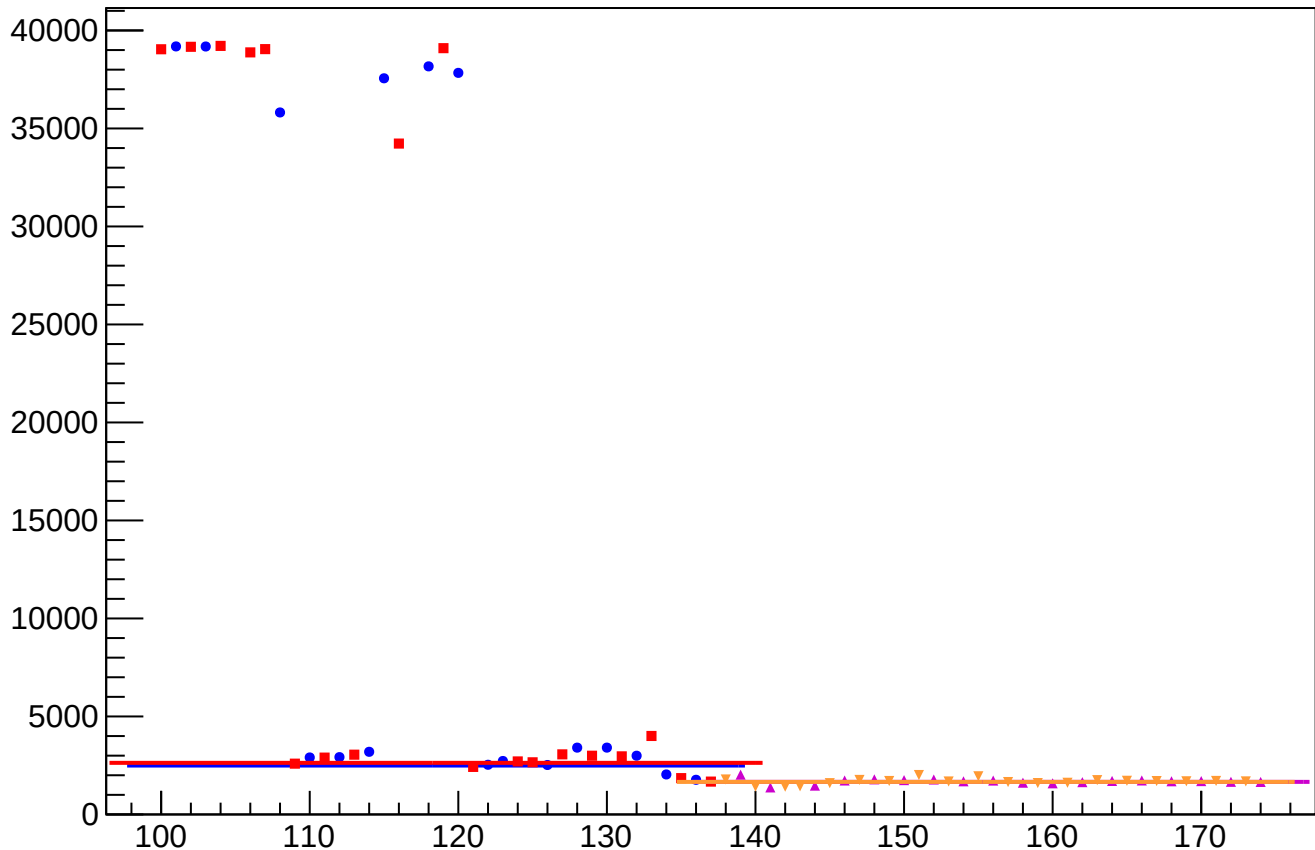
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: 0.000 ± 0.420 χ^2/NDF : 42.6/34

Out: -1.582 ± 0.418 χ^2/NDF : 66.7/37

All: -0.796 ± 0.296 χ^2/NDF : 116.5/72

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603+/-0.861 χ^2/NDF : 4882334.6/16

Left Out: 1661.024+/-0.313 χ^2/NDF : 214829.7/18

Right Out: 2633.244+/-0.881 χ^2/NDF : 4860512.6/18

Left In: 1662.449+/-0.317 χ^2/NDF : 178199.4/17

Left: 1661.729+/-0.223 χ^2/NDF : 393039.3/36

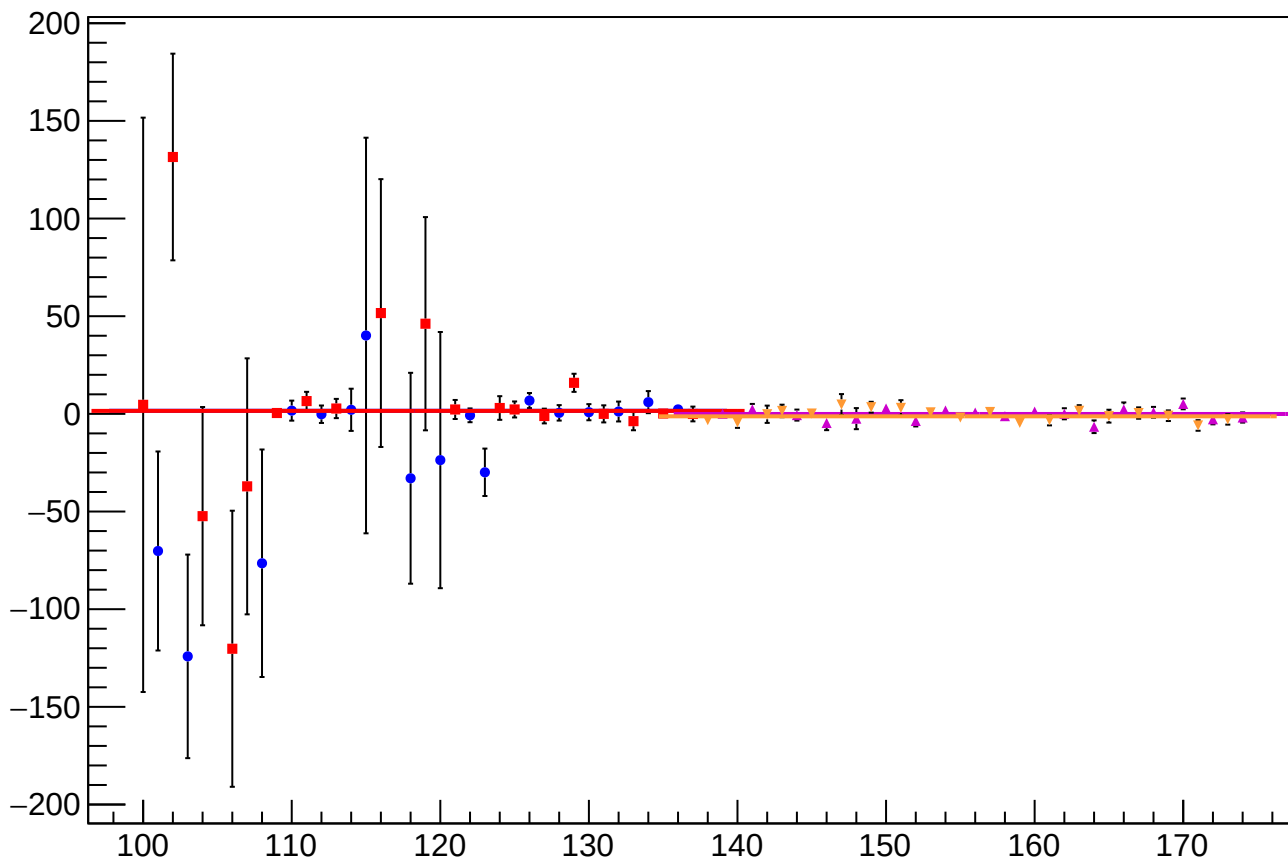
Right: 2562.854+/-0.616 χ^2/NDF : 9755329.9/35

In: 1761.701+/-0.297 χ^2/NDF : 5885089.3/34

Out: 1770.219+/-0.295 χ^2/NDF : 6156369.7/37

All: 1765.988+/-0.209 χ^2/NDF : 12041872.4/71

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.576 ± 1.143 $\chi^2/\text{NDF}: 20.3/16$

Left Out: -1.259 ± 0.610 $\chi^2/\text{NDF}: 18.3/18$

Right Out: 1.524 ± 1.062 $\chi^2/\text{NDF}: 25.0/18$

Left In: -0.057 ± 0.601 $\chi^2/\text{NDF}: 16.2/17$

Left: -0.650 ± 0.428 $\chi^2/\text{NDF}: 36.6/36$

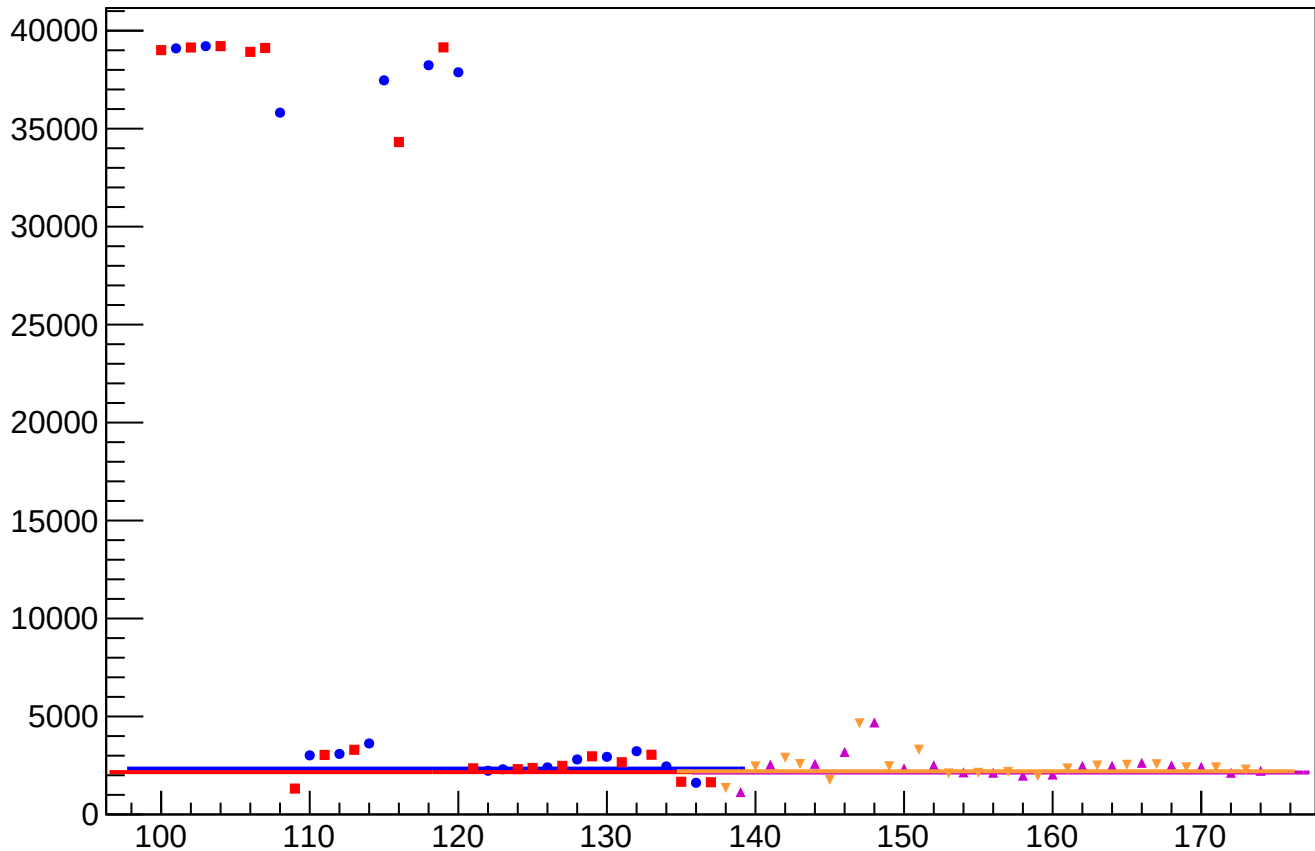
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.297 ± 0.532 $\chi^2/\text{NDF}: 38.2/34$

Out: -0.570 ± 0.529 $\chi^2/\text{NDF}: 48.5/37$

All: -0.139 ± 0.375 $\chi^2/\text{NDF}: 88.1/72$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.130+/-0.808 χ^2/NDF : 5006864.7/16

Left Out: 2204.166+/-0.431 χ^2/NDF : 1404598.8/18

Right Out: 2161.162+/-0.751 χ^2/NDF : 5299050.1/18

Left In: 2139.251+/-0.425 χ^2/NDF : 1946227.5/17

Left: 2171.243+/-0.303 χ^2/NDF : 3362328.1/36

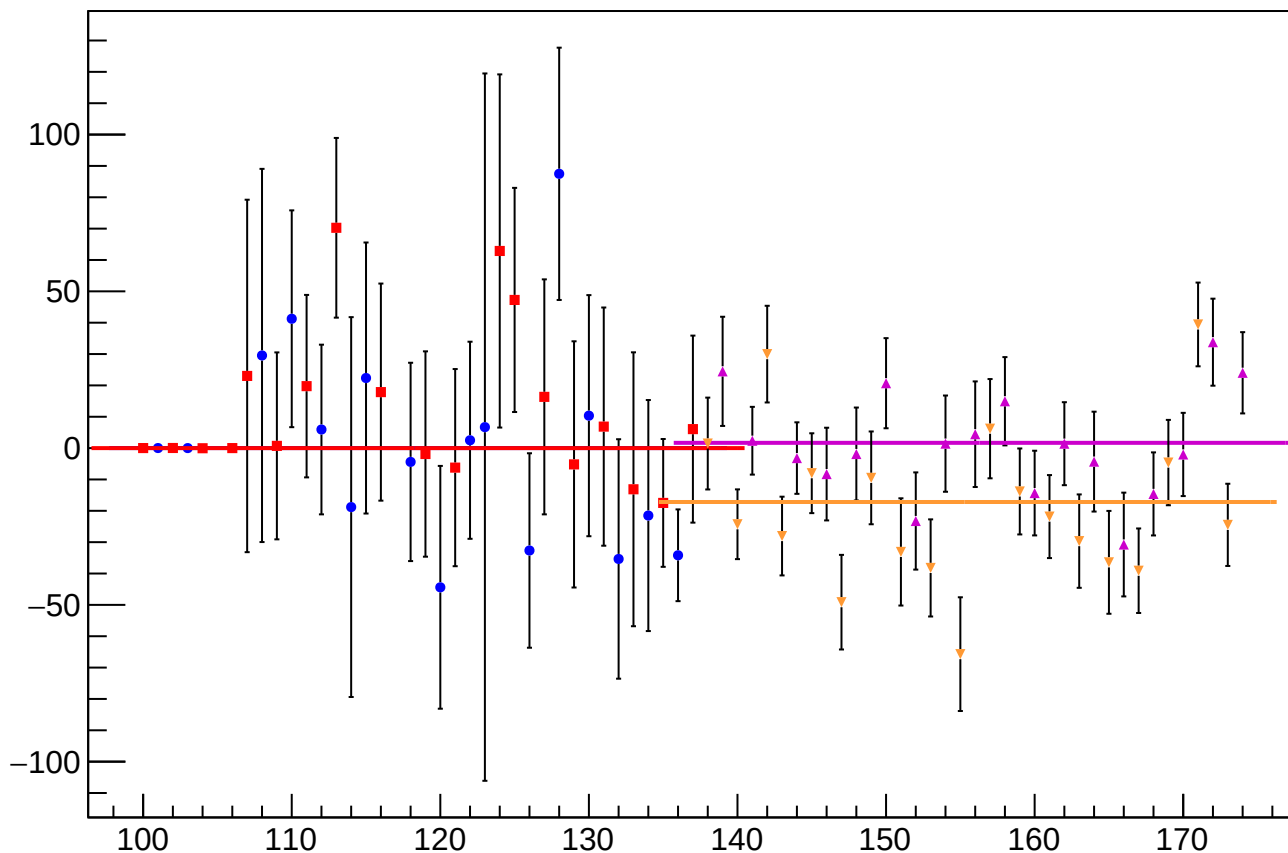
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2182.972+/-0.376 χ^2/NDF : 7001974.6/34

Out: 2193.510+/-0.374 χ^2/NDF : 6706115.1/37

All: 2188.273+/-0.265 χ^2/NDF : 13708484.5/71

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 16.2/16

Left Out: -17.186 $\pm$ 3.251 χ^2/NDF : 53.5/18

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 15.9/18

Left In: 1.681 $\pm$ 3.300 χ^2/NDF : 23.0/17

Left: -7.895 $\pm$ 2.316 χ^2/NDF : 93.1/36

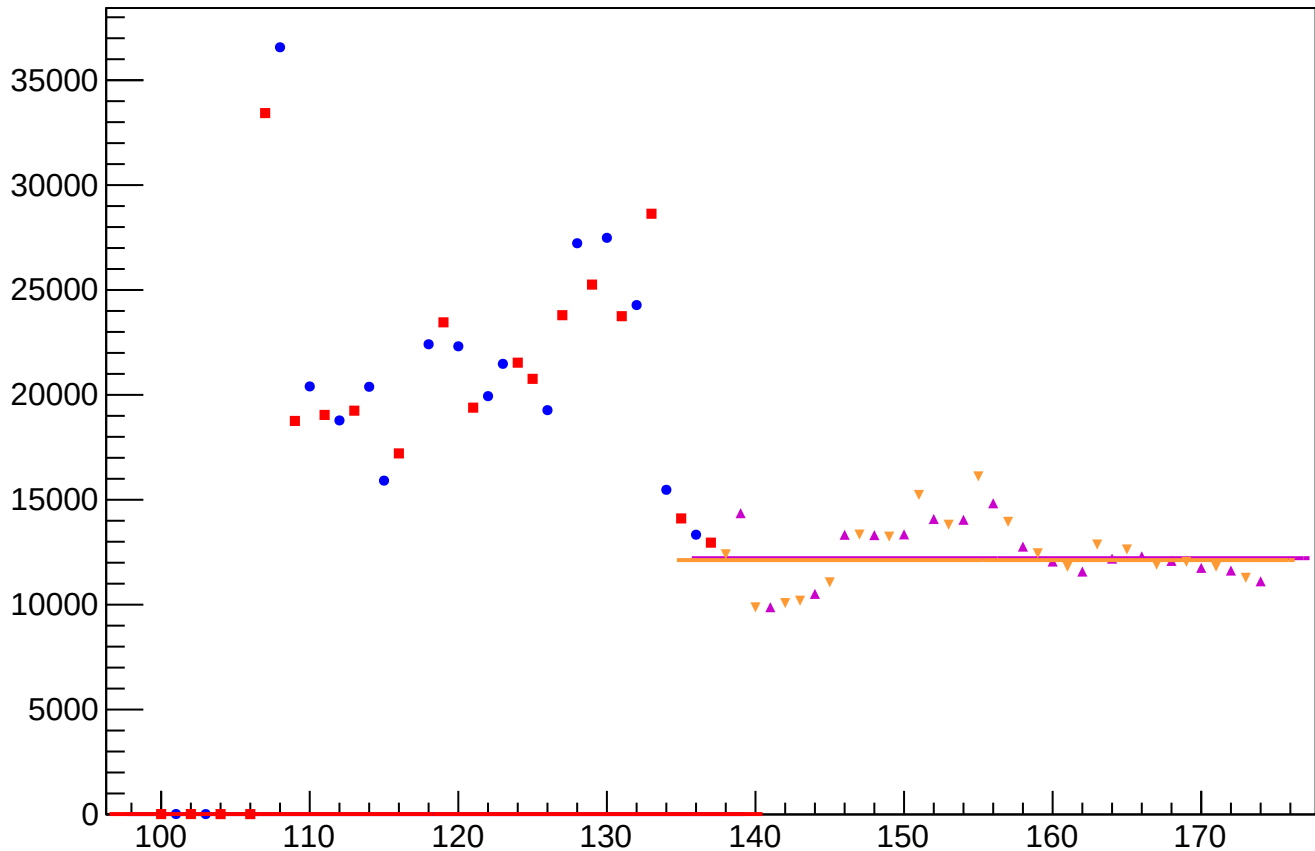
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 32.5/35

In: 0.013 $\pm$ 0.017 χ^2/NDF : 39.4/34

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 97.3/37

All: 0.004 $\pm$ 0.012 χ^2/NDF : 137.2/72

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.642 $\pm$ 0.012 χ^2 /NDF: 10984160.5/16

Left Out: 12123.337 $\pm$ 2.299 χ^2 /NDF: 435941.9/18

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11110665.6/18

Left In: 12215.309 $\pm$ 2.334 χ^2 /NDF: 337811.5/17

Left: 12168.630 $\pm$ 1.638 χ^2 /NDF: 774541.8/36

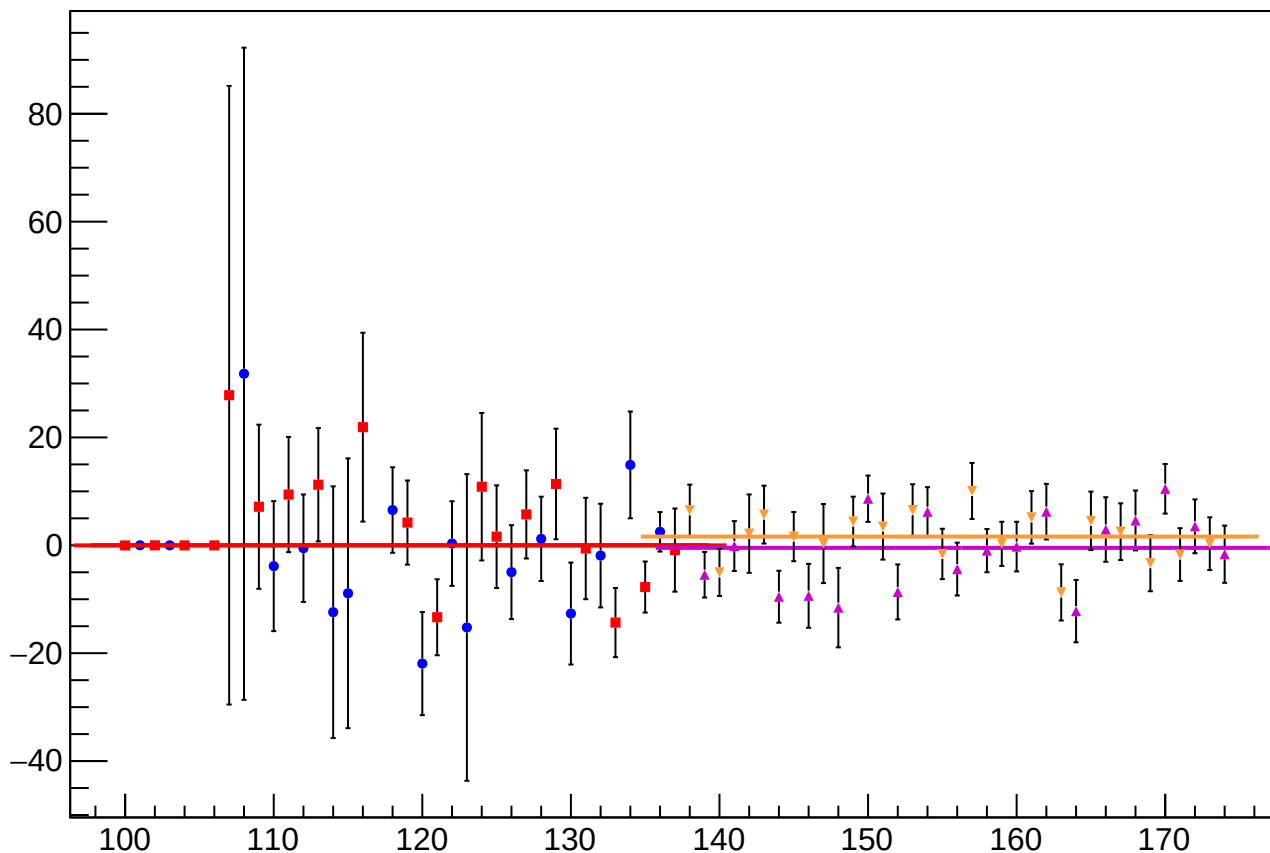
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.978 $\pm$ 0.012 χ^2 /NDF: 38637047.3/34

Out: 18.607 $\pm$ 0.011 χ^2 /NDF: 39276944.5/37

All: 18.779 $\pm$ 0.008 χ^2 /NDF: 77914484.1/72

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 13.0/16

Left Out: 1.616+/-1.157 χ^2/NDF : 14.9/18

Right Out: -0.014+/-0.009 χ^2/NDF : 18.6/18

Left In: -0.471+/-1.166 χ^2/NDF : 32.7/17

Left: 0.580+/-0.821 χ^2/NDF : 49.2/36

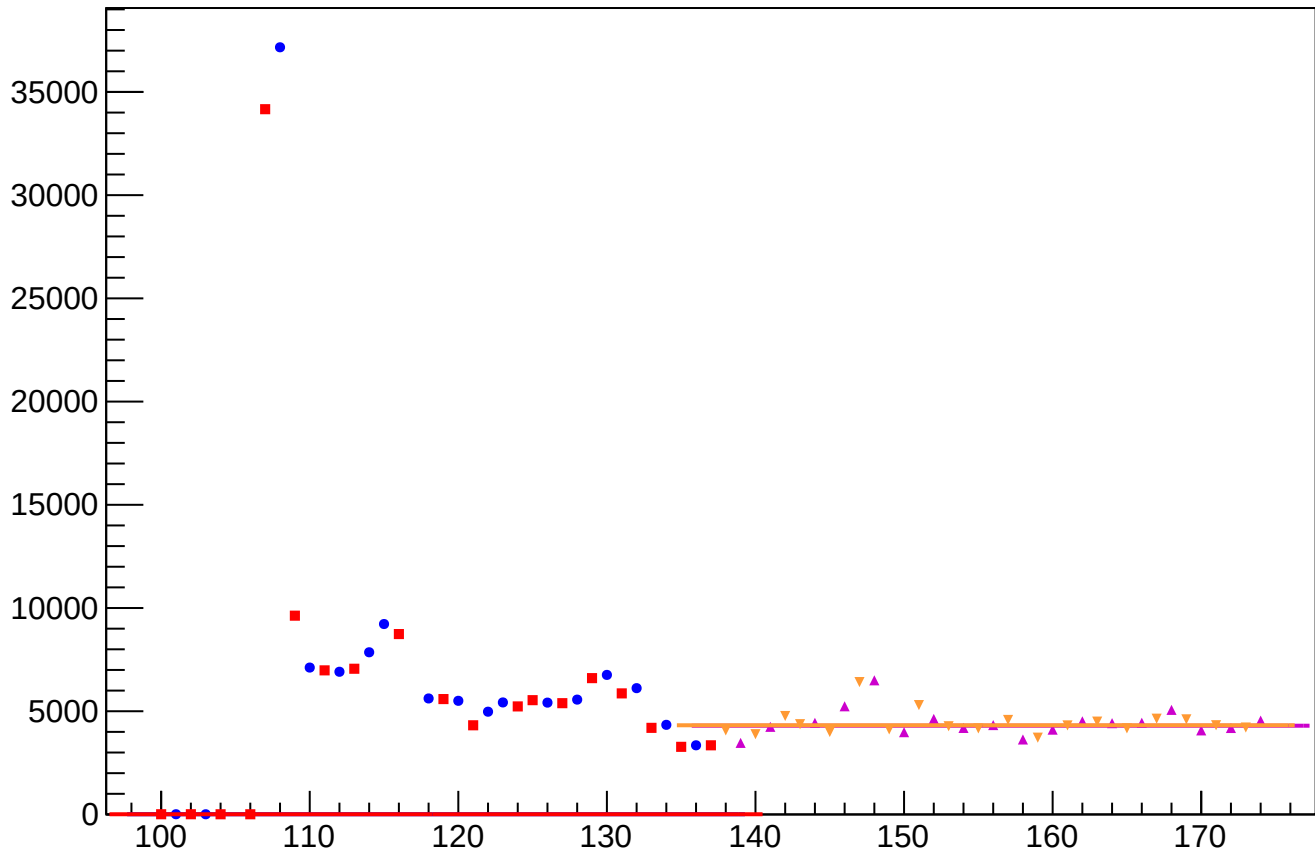
Right: -0.007+/-0.006 χ^2/NDF : 33.0/35

In: 0.001+/-0.009 χ^2/NDF : 45.9/34

Out: -0.014+/-0.009 χ^2/NDF : 35.5/37

All: -0.007+/-0.006 χ^2/NDF : 82.8/72

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 11114526.8/16

Left Out: 4320.377 ± 0.818 χ^2/NDF : 329453.0/18

Right Out: 9.854 ± 0.006 χ^2/NDF : 11159992.3/18

Left In: 4298.674 ± 0.824 χ^2/NDF : 441350.5/17

Left: 4309.603 ± 0.581 χ^2/NDF : 771152.6/36

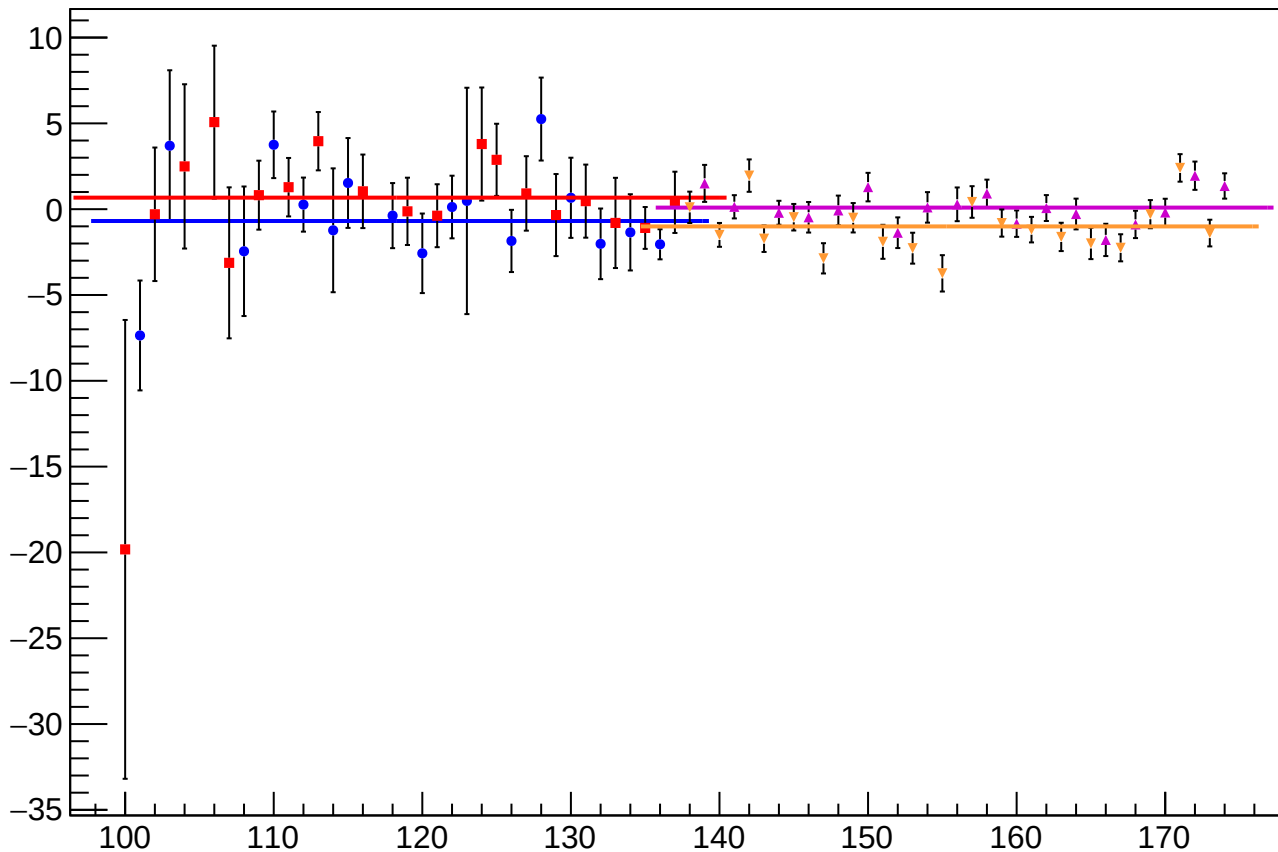
Right: 9.894 ± 0.004 χ^2/NDF : 22274609.0/35

In: 10.206 ± 0.007 χ^2/NDF : 38626455.7/34

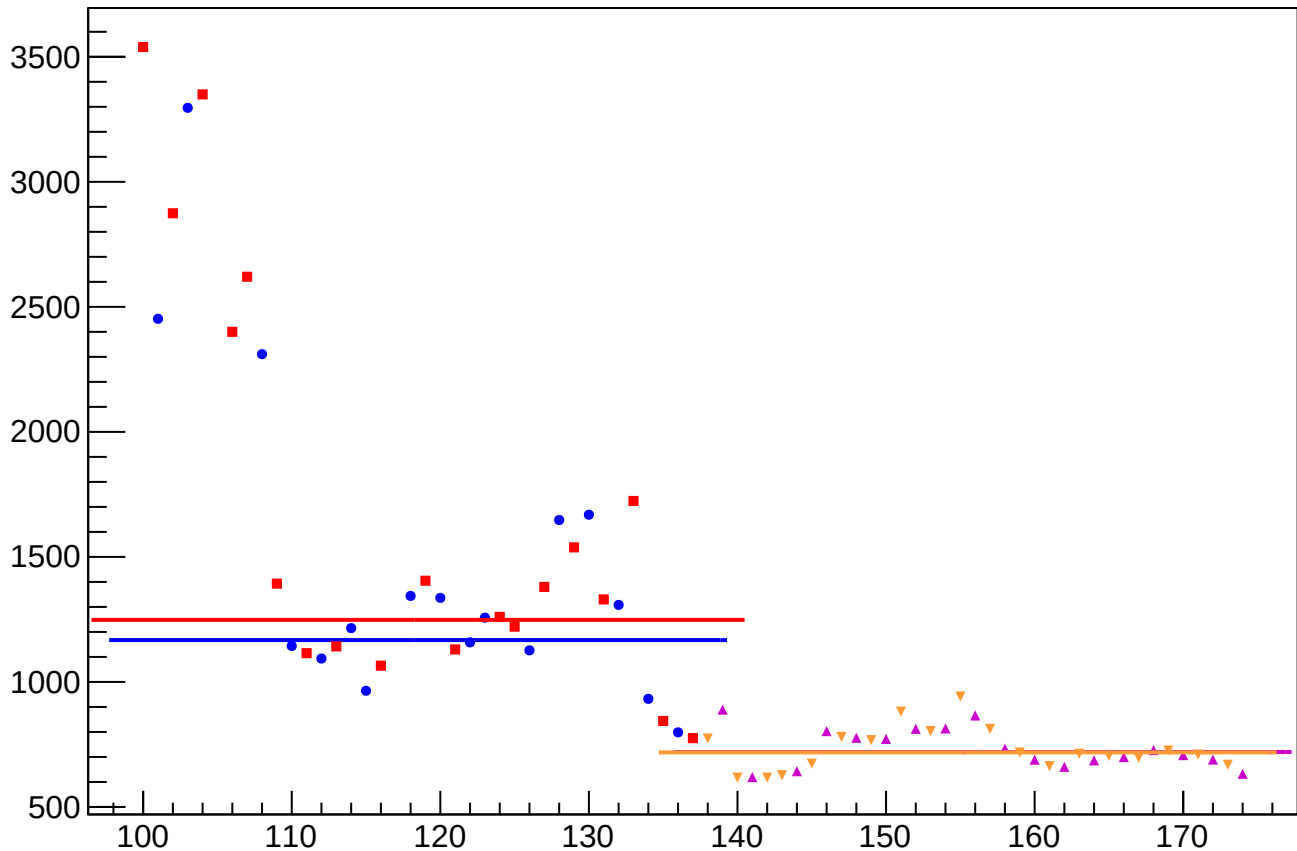
Out: 10.095 ± 0.006 χ^2/NDF : 39228386.2/37

All: 10.147 ± 0.004 χ^2/NDF : 77854996.6/72

diff_cav4cX_mean vs Slug, Sign Corrected



diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 ± 0.341 $\chi^2/\text{NDF}: 1578328.1/16$

Left Out: 718.303 ± 0.136 $\chi^2/\text{NDF}: 326733.7/18$

Right Out: 1248.241 ± 0.354 $\chi^2/\text{NDF}: 1654028.9/18$

Left In: 719.905 ± 0.137 $\chi^2/\text{NDF}: 290913.9/17$

Left: 719.095 ± 0.097 $\chi^2/\text{NDF}: 617716.3/36$

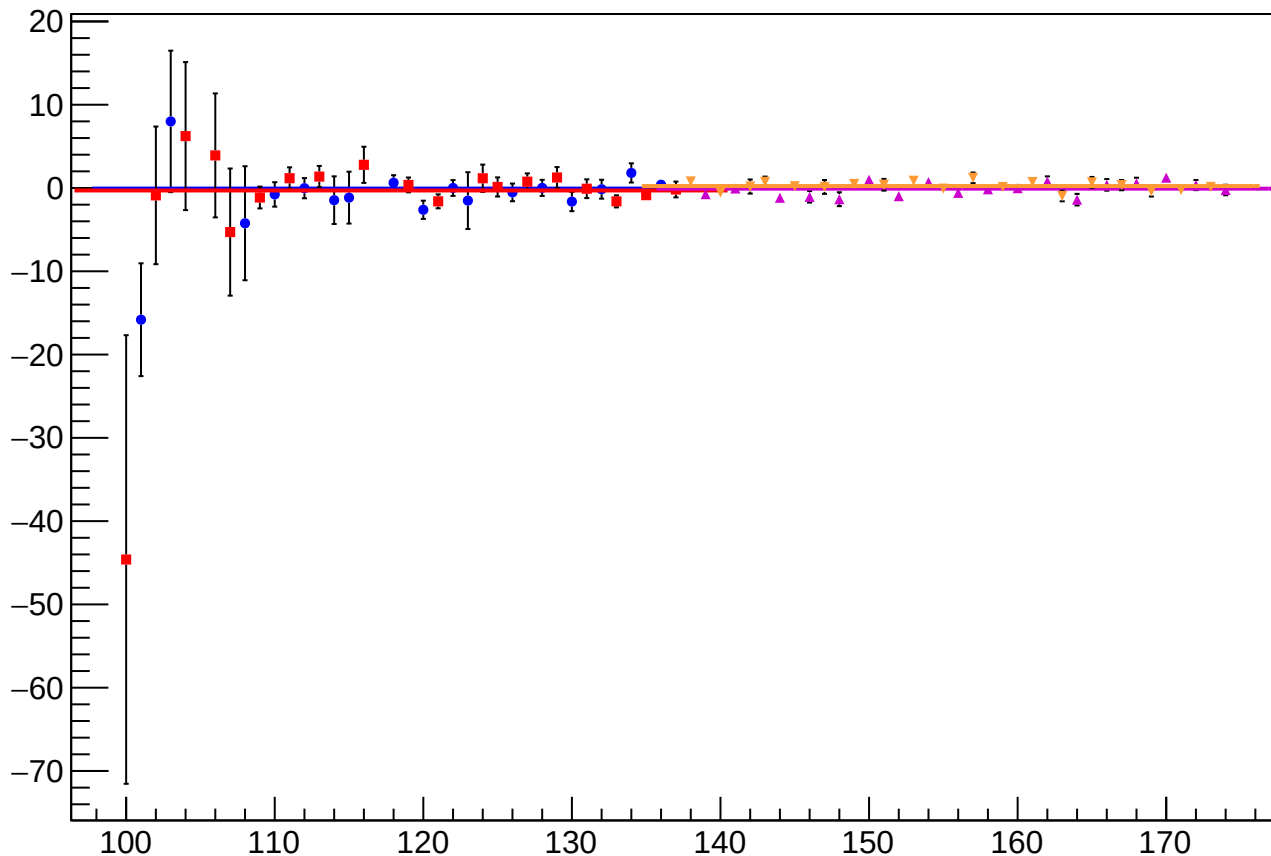
Right: 1206.306 ± 0.246 $\chi^2/\text{NDF}: 3259405.5/35$

In: 782.388 ± 0.127 $\chi^2/\text{NDF}: 3350742.5/34$

Out: 786.345 ± 0.127 $\chi^2/\text{NDF}: 3933673.2/37$

All: 784.375 ± 0.090 $\chi^2/\text{NDF}: 7284900.0/72$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.269 χ^2/NDF : 19.2/16

Left Out: 0.237 ± 0.139 χ^2/NDF : 14.6/18

Right Out: -0.294 ± 0.264 χ^2/NDF : 20.2/18

Left In: -0.079 ± 0.140 χ^2/NDF : 32.2/17

Left: 0.081 ± 0.099 χ^2/NDF : 49.3/36

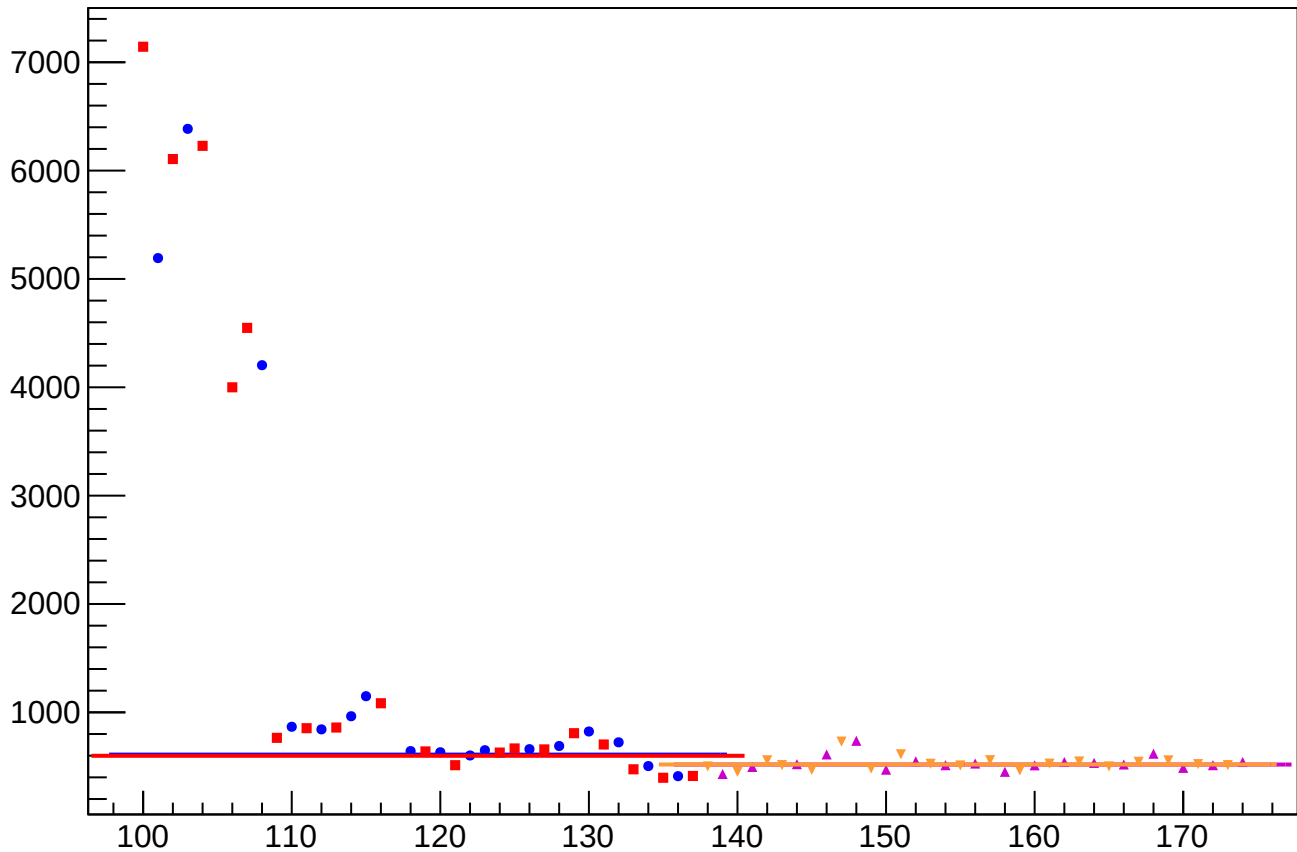
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.077 ± 0.124 χ^2/NDF : 51.4/34

Out: 0.122 ± 0.123 χ^2/NDF : 38.0/37

All: 0.024 ± 0.087 χ^2/NDF : 90.7/72

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.780+/-0.190 χ^2/NDF : 3135978.5/16

Left Out: 518.666+/-0.098 χ^2/NDF : 281050.6/18

Right Out: 599.018+/-0.187 χ^2/NDF : 3552387.3/18

Left In: 518.145+/-0.099 χ^2/NDF : 349804.1/17

Left: 518.408+/-0.070 χ^2/NDF : 630868.6/36

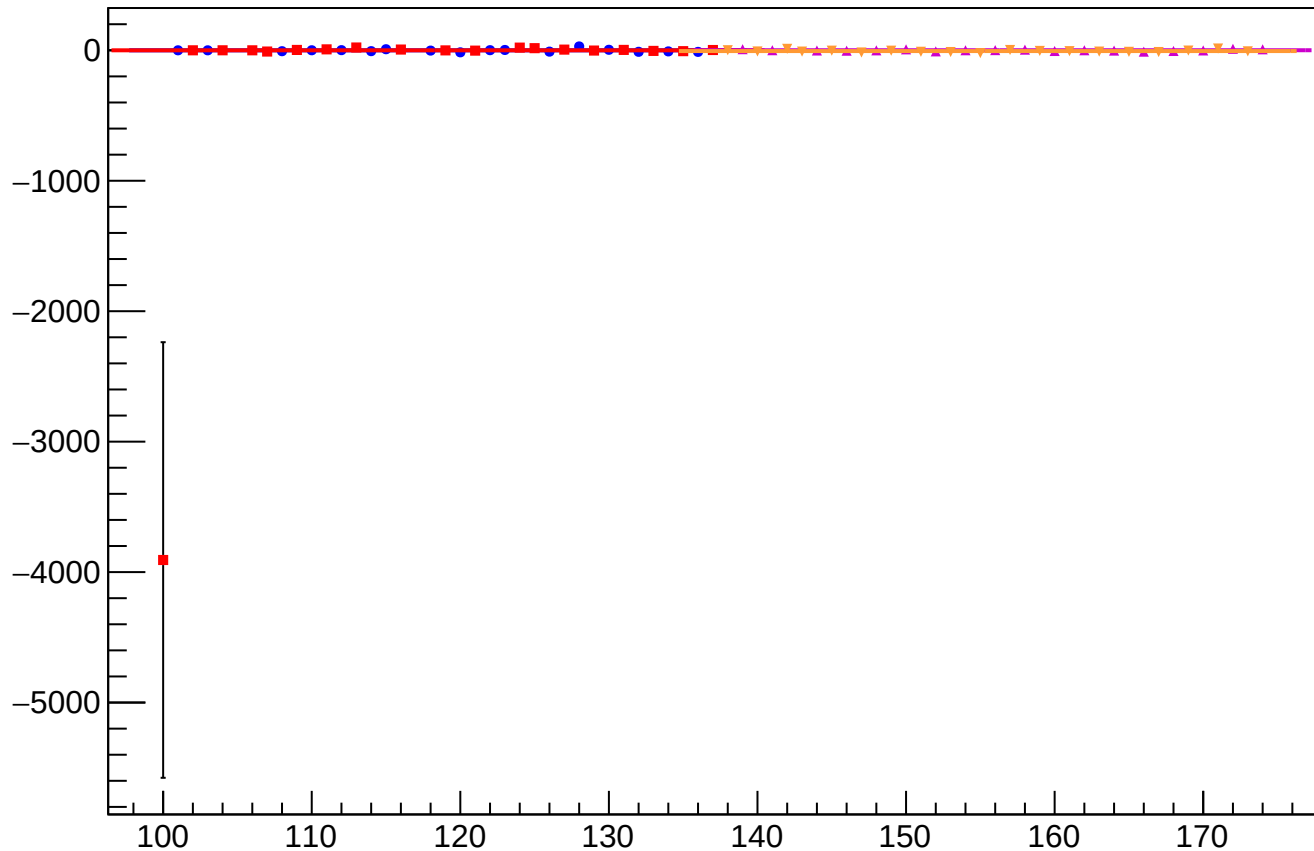
Right: 604.304+/-0.133 χ^2/NDF : 6689999.6/35

In: 537.773+/-0.088 χ^2/NDF : 3668725.8/34

Out: 536.071+/-0.087 χ^2/NDF : 3978678.1/37

All: 536.912+/-0.062 χ^2/NDF : 7647593.7/72

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 15.6/16

Left Out: -5.798 ± 1.118 χ^2/NDF : 53.0/18

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.9/18

Left In: 0.578 ± 1.131 χ^2/NDF : 23.5/17

Left: -2.649 ± 0.795 χ^2/NDF : 92.6/36

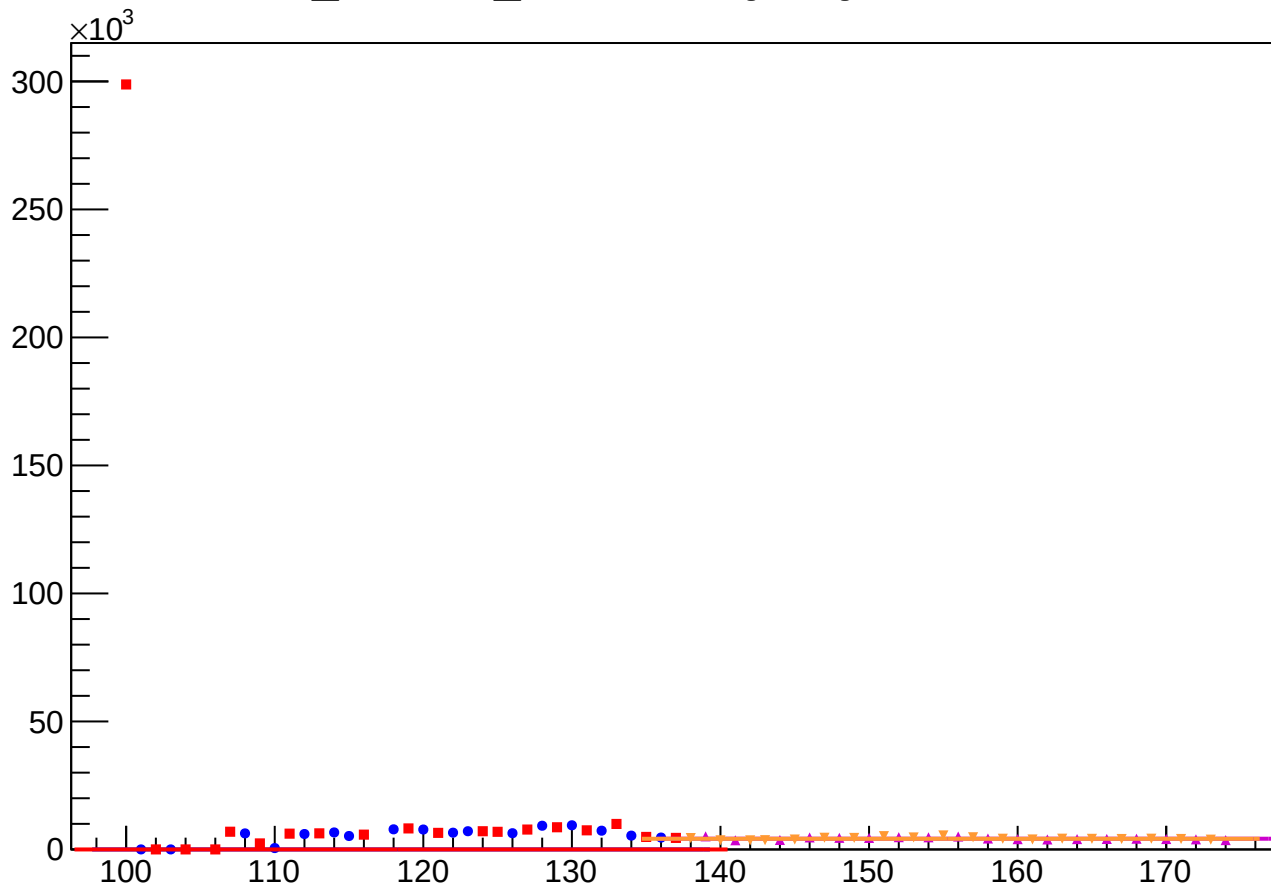
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.021 ± 0.021 χ^2/NDF : 39.4/34

Out: 0.025 ± 0.020 χ^2/NDF : 98.1/37

All: 0.003 ± 0.014 χ^2/NDF : 140.1/72

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341 $\pm$ 0.015 χ^2 /NDF: 10501445.0/16

Left Out: 4175.694 $\pm$ 0.790 χ^2 /NDF: 349971.2/18

Right Out: 17.269 $\pm$ 0.014 χ^2 /NDF: 10820611.7/18

Left In: 4190.827 $\pm$ 0.800 χ^2 /NDF: 303100.1/17

Left: 4183.169 $\pm$ 0.562 χ^2 /NDF: 653252.4/36

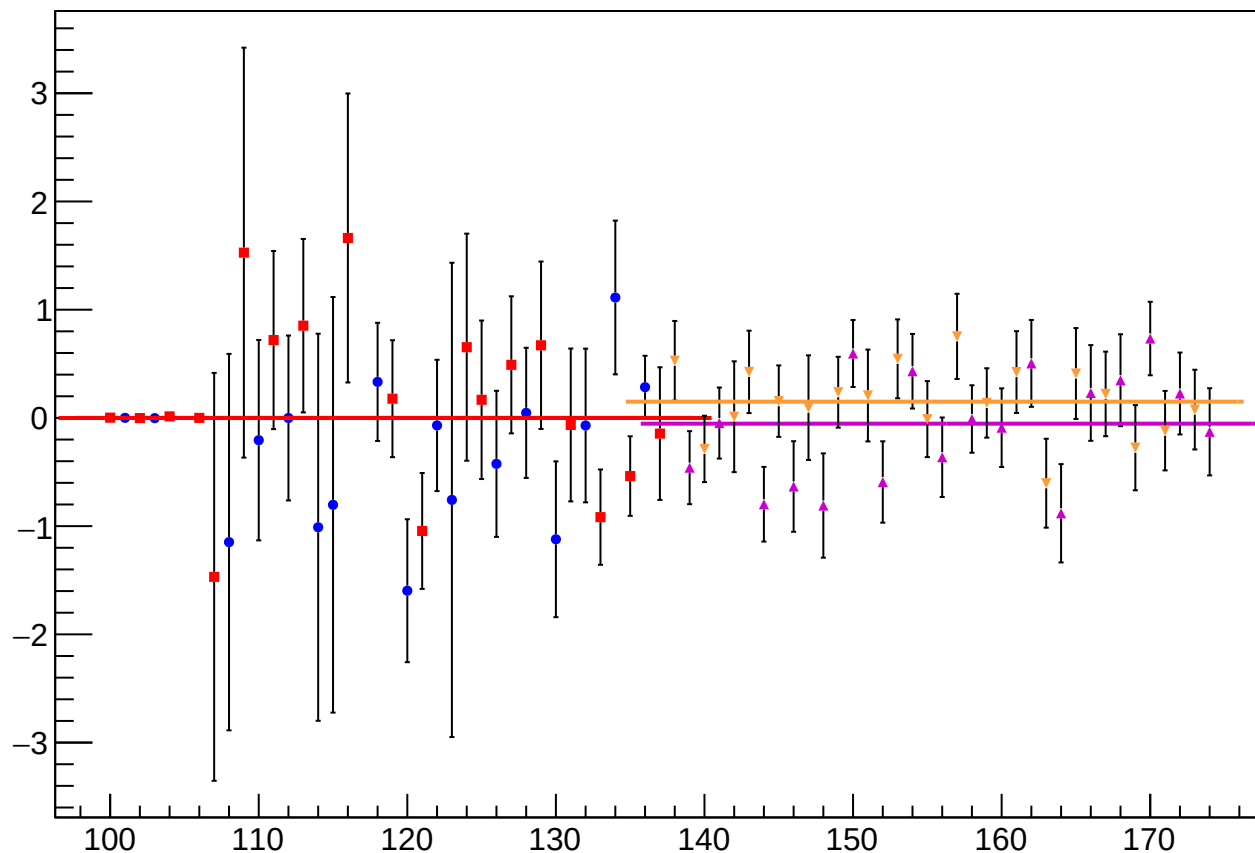
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

In: 18.750 $\pm$ 0.015 χ^2 /NDF: 38016542.1/34

Out: 18.570 $\pm$ 0.014 χ^2 /NDF: 38850312.4/37

All: 18.656 $\pm$ 0.010 χ^2 /NDF: 76866933.2/72

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2/NDF : 13.8/16

Left Out: 0.150 $\pm$ 0.086 χ^2/NDF : 13.6/18

Right Out: -0.001 $\pm$ 0.002 χ^2/NDF : 17.9/18

Left In: -0.053 $\pm$ 0.087 χ^2/NDF : 32.2/17

Left: 0.050 $\pm$ 0.061 χ^2/NDF : 48.5/36

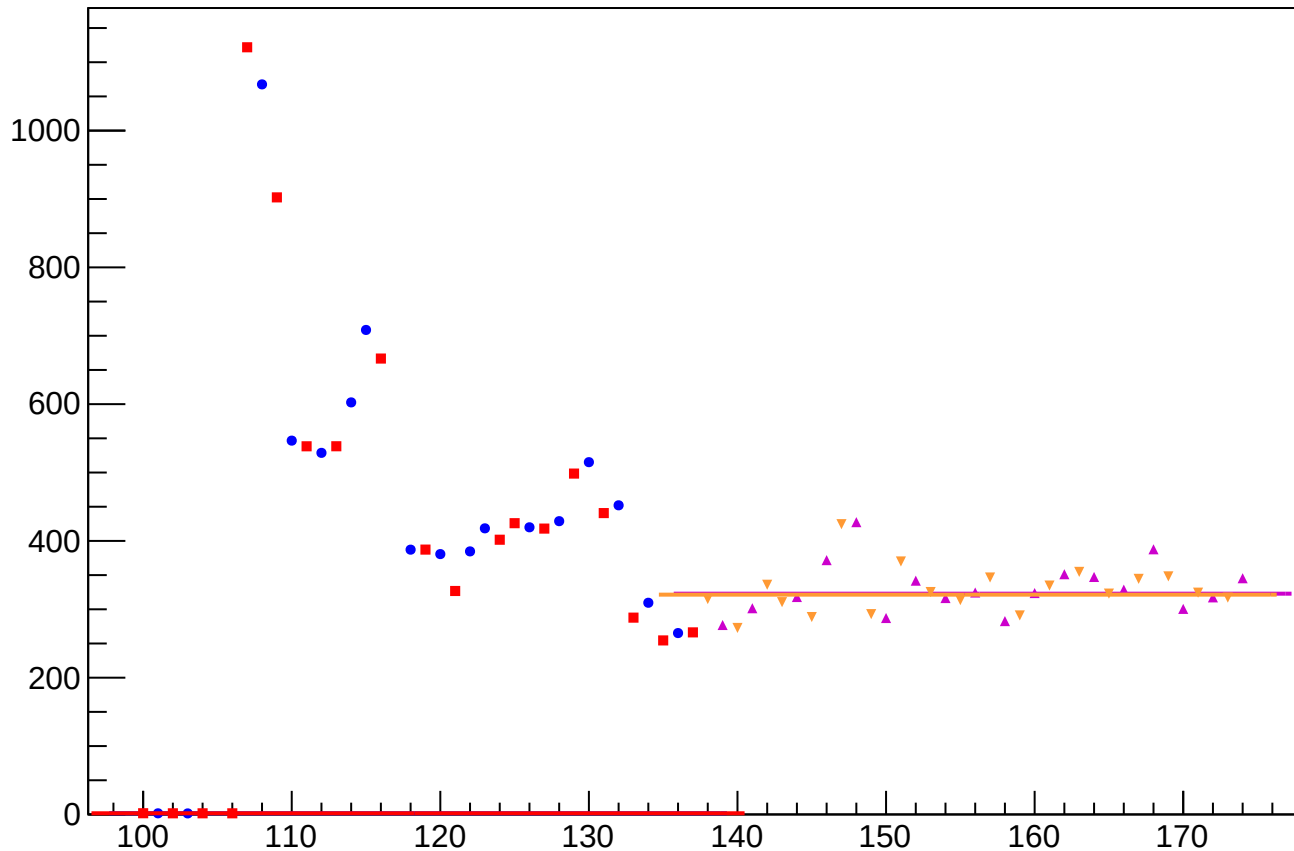
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 46.3/34

Out: -0.001 $\pm$ 0.002 χ^2/NDF : 34.6/37

All: -0.000 $\pm$ 0.001 χ^2/NDF : 81.0/72

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 11053026.2/16

Left Out: 321.429 $\pm$ 0.061 χ^2 /NDF: 265708.8/18

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 10743910.0/18

Left In: 322.848 $\pm$ 0.062 χ^2 /NDF: 310985.1/17

Left: 322.128 $\pm$ 0.043 χ^2 /NDF: 576962.1/36

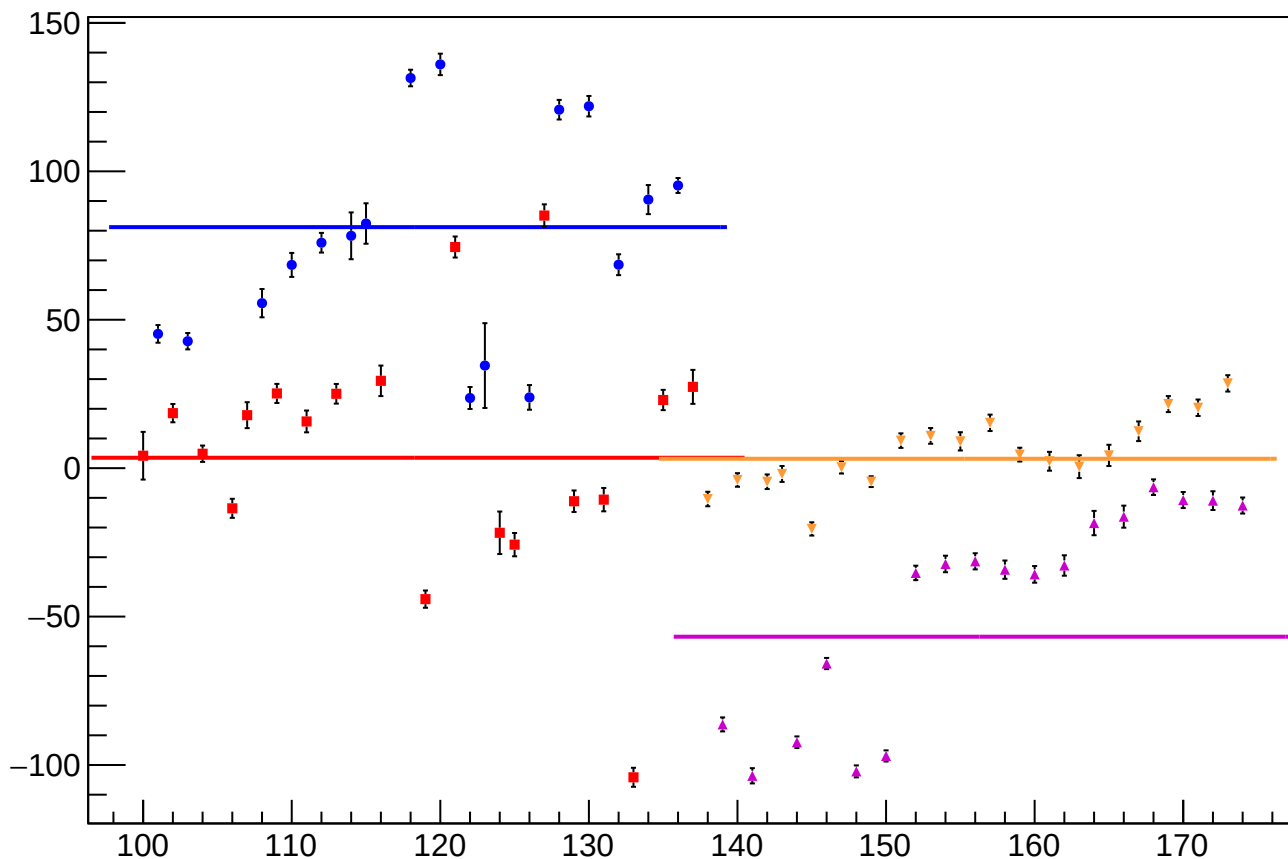
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

In: 1.872 $\pm$ 0.001 χ^2 /NDF: 38422303.9/34

Out: 1.891 $\pm$ 0.001 χ^2 /NDF: 38652822.5/37

All: 1.882 $\pm$ 0.001 χ^2 /NDF: 77075217.9/72

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201 $\pm$ 0.886 χ^2 /NDF: 1709.8/16

Left Out: 3.171 $\pm$ 0.592 χ^2 /NDF: 401.8/18

Right Out: 3.508 $\pm$ 0.843 χ^2 /NDF: 2599.0/18

Left In: -56.782 $\pm$ 0.597 χ^2 /NDF: 3545.0/17

Left: -26.515 $\pm$ 0.420 χ^2 /NDF: 9029.7/36

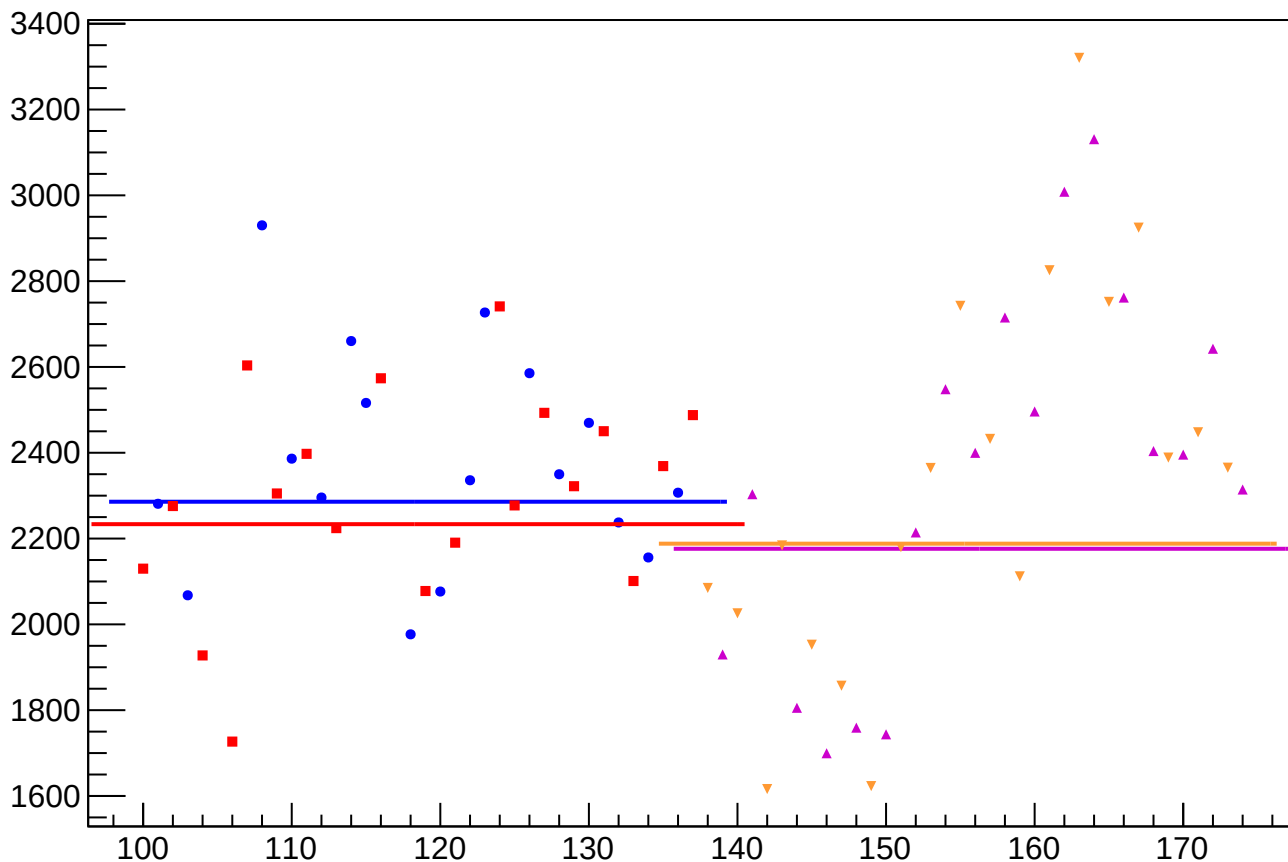
Right: 40.415 $\pm$ 0.610 χ^2 /NDF: 8348.3/35

In: -13.627 $\pm$ 0.495 χ^2 /NDF: 21934.9/34

Out: 3.282 $\pm$ 0.484 χ^2 /NDF: 3001.0/37

All: -4.981 $\pm$ 0.346 χ^2 /NDF: 25531.7/72

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855 +/- 0.626 χ^2/NDF : 109336.5/16

Left Out: 2188.071 +/- 0.418 χ^2/NDF : 917130.7/18

Right Out: 2233.547 +/- 0.596 χ^2/NDF : 146848.5/18

Left In: 2176.161 +/- 0.422 χ^2/NDF : 906794.2/17

Left: 2182.174 +/- 0.297 χ^2/NDF : 1824326.1/36

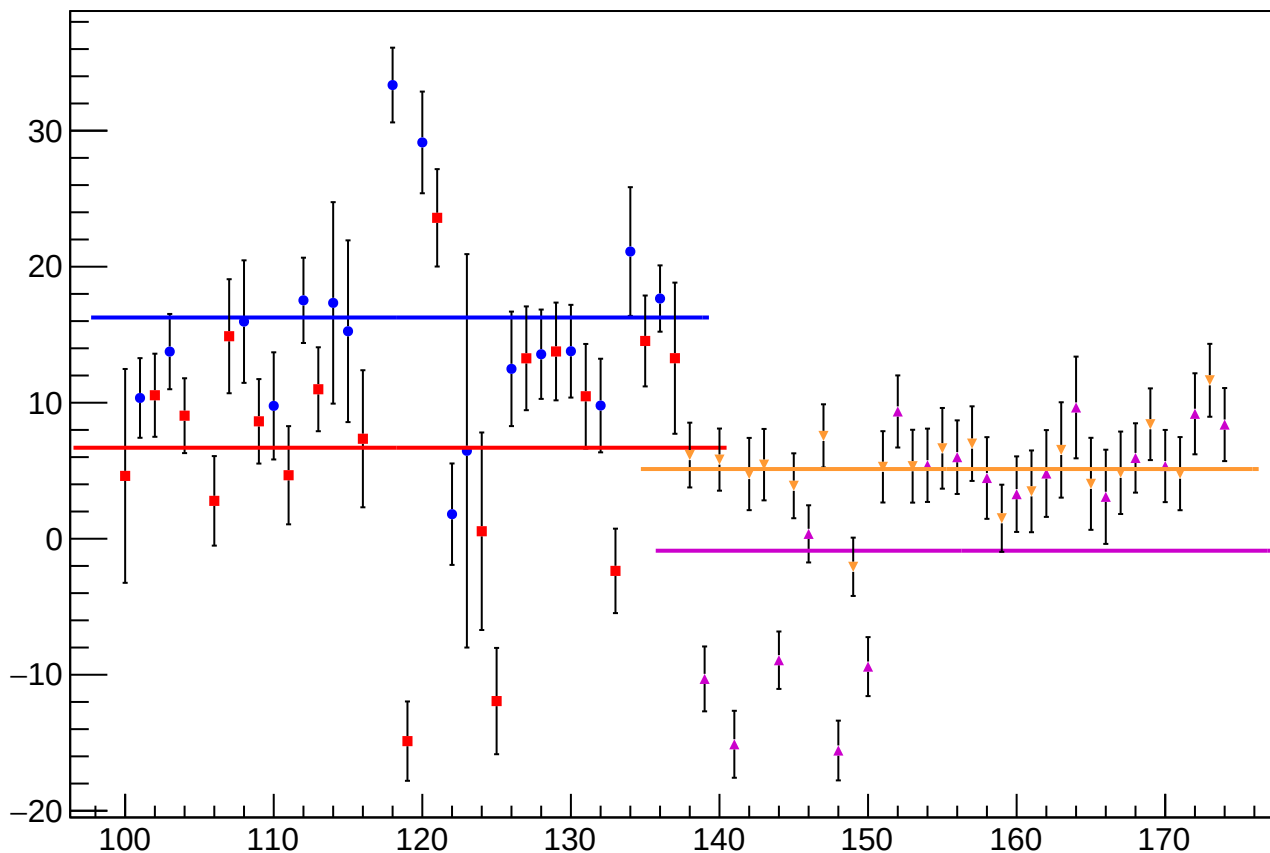
Right: 2258.395 +/- 0.432 χ^2/NDF : 259847.1/35

In: 2210.468 +/- 0.350 χ^2/NDF : 1037214.5/34

Out: 2203.093 +/- 0.342 χ^2/NDF : 1067881.3/37

All: 2206.697 +/- 0.245 χ^2/NDF : 2105322.6/72

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 2.160 $\pm$ 0.430 χ^2/NDF : 277.3/36

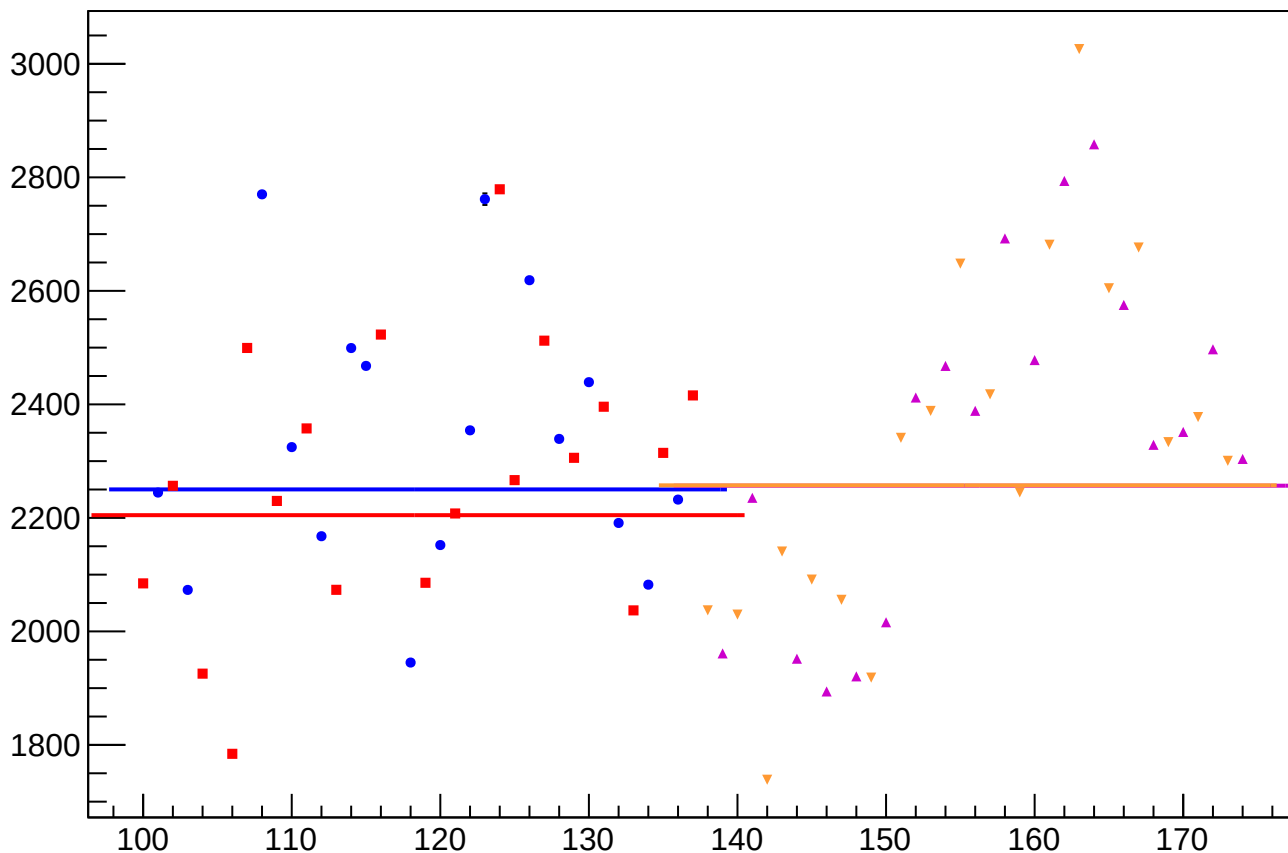
Right: 11.249 $\pm$ 0.601 χ^2/NDF : 278.0/35

In: 4.783 $\pm$ 0.501 χ^2/NDF : 544.7/34

Out: 5.666 $\pm$ 0.489 χ^2/NDF : 160.2/37

All: 5.236 $\pm$ 0.350 χ^2/NDF : 706.5/72

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175 ± 0.616 $\chi^2/\text{NDF}: 97578.1/16$

Left Out: 2257.358 ± 0.427 $\chi^2/\text{NDF}: 441754.9/18$

Right Out: 2204.789 ± 0.587 $\chi^2/\text{NDF}: 126227.4/18$

Left In: 2256.709 ± 0.433 $\chi^2/\text{NDF}: 425279.4/17$

Left: 2257.038 ± 0.304 $\chi^2/\text{NDF}: 867035.4/36$

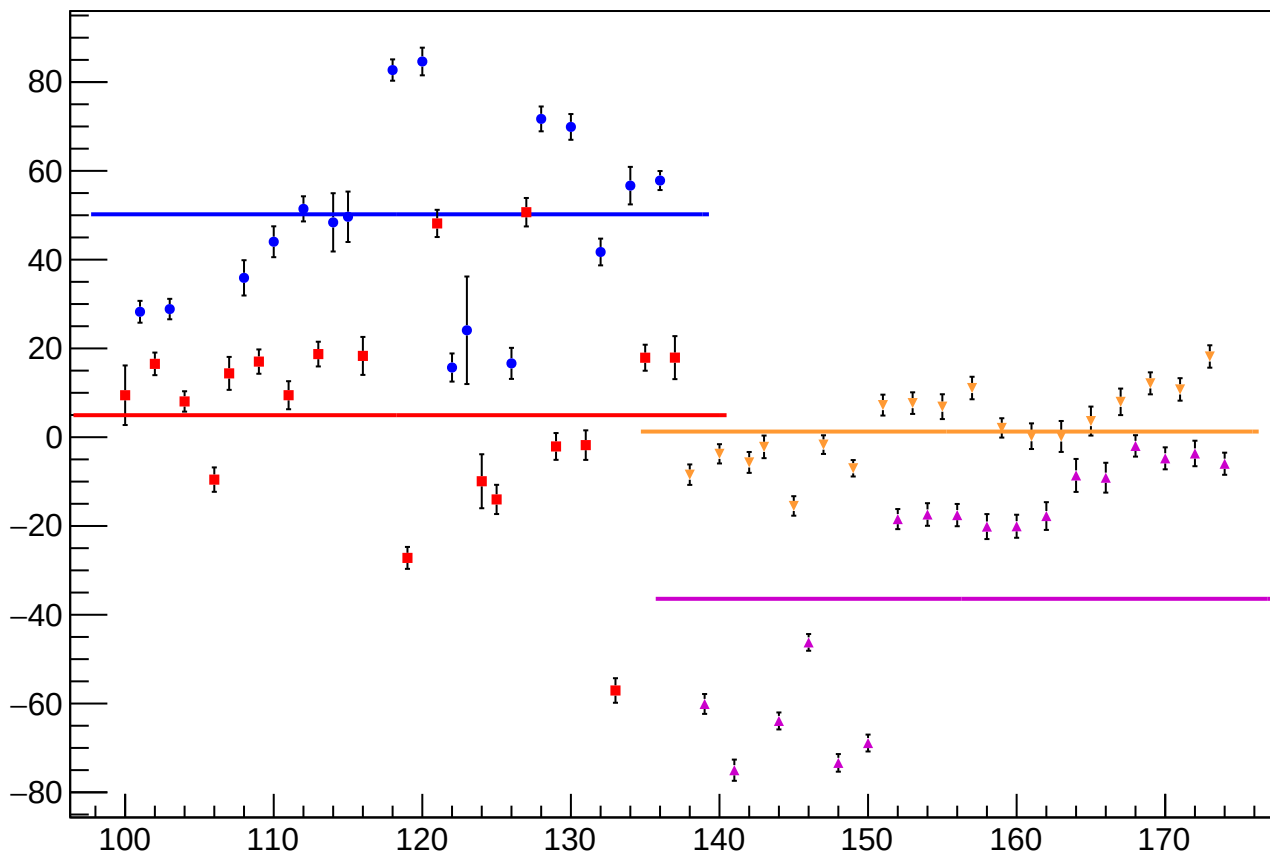
Right: 2226.396 ± 0.425 $\chi^2/\text{NDF}: 226647.4/35$

In: 2254.550 ± 0.354 $\chi^2/\text{NDF}: 522932.7/34$

Out: 2239.167 ± 0.346 $\chi^2/\text{NDF}: 573219.7/37$

All: 2246.669 ± 0.247 $\chi^2/\text{NDF}: 1097118.8/72$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215+/-0.751 χ^2/NDF : 830.3/16

Left Out: 1.270+/-0.560 χ^2/NDF :230.2/18

Right Out: 4.958+/-0.713 χ^2/NDF : 1262.6/18

Left In: -36.407+/-0.566 χ^2/NDF :2299.0/17

Left: -17.382+/-0.398 χ^2/NDF : 4769.4/36

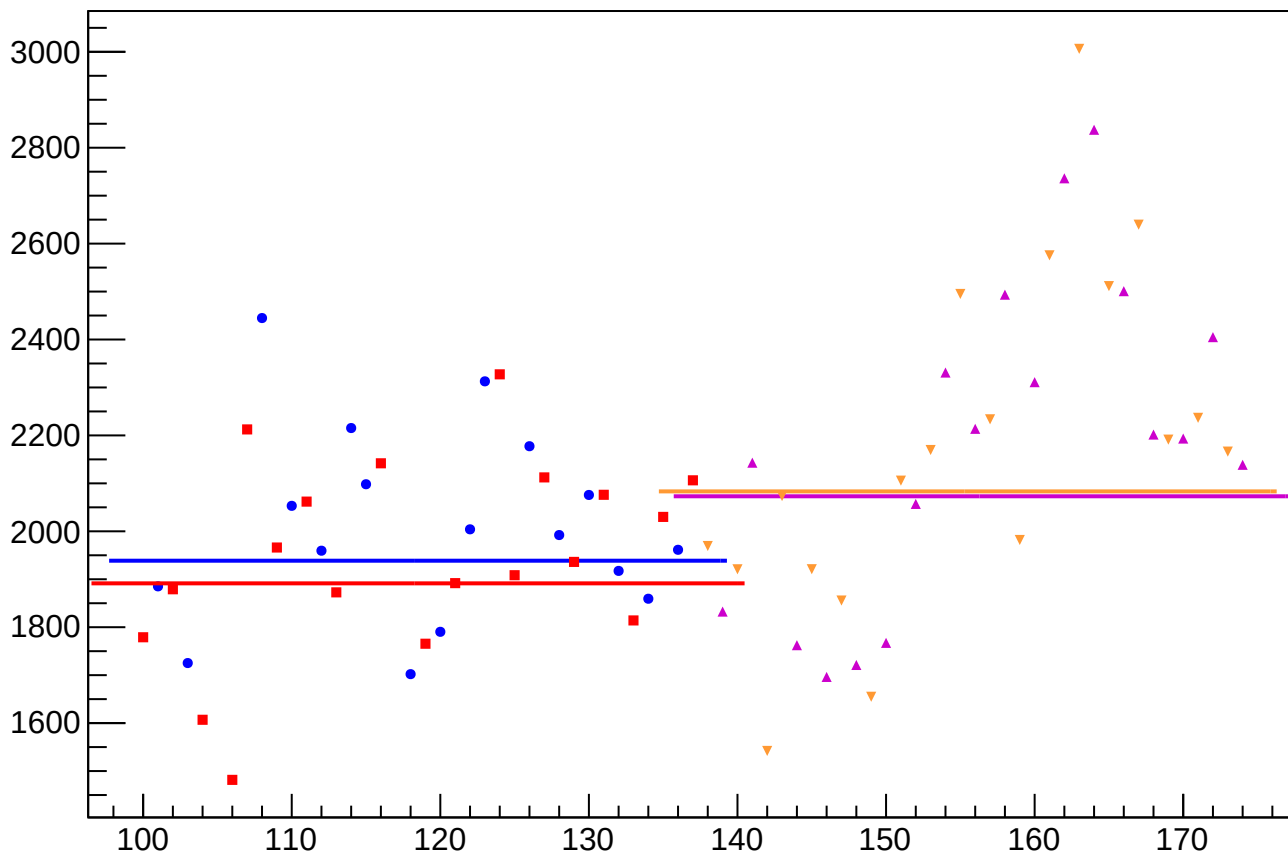
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

In: -5.040+/-0.452 χ^2/NDF :11620.5/34

Out: 2.677+/-0.441 χ^2/NDF :1509.3/37

All: -1.084+/-0.315 χ^2/NDF : 13279.3/72

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688+/-0.531 χ^2/NDF : 100143.1/16

Left Out: 2083.262+/-0.396 χ^2/NDF : 635919.3/18

Right Out: 1891.466+/-0.504 χ^2/NDF : 146622.8/18

Left In: 2073.036+/-0.400 χ^2/NDF : 606350.4/17

Left: 2078.200+/-0.281 χ^2/NDF : 1242599.8/36

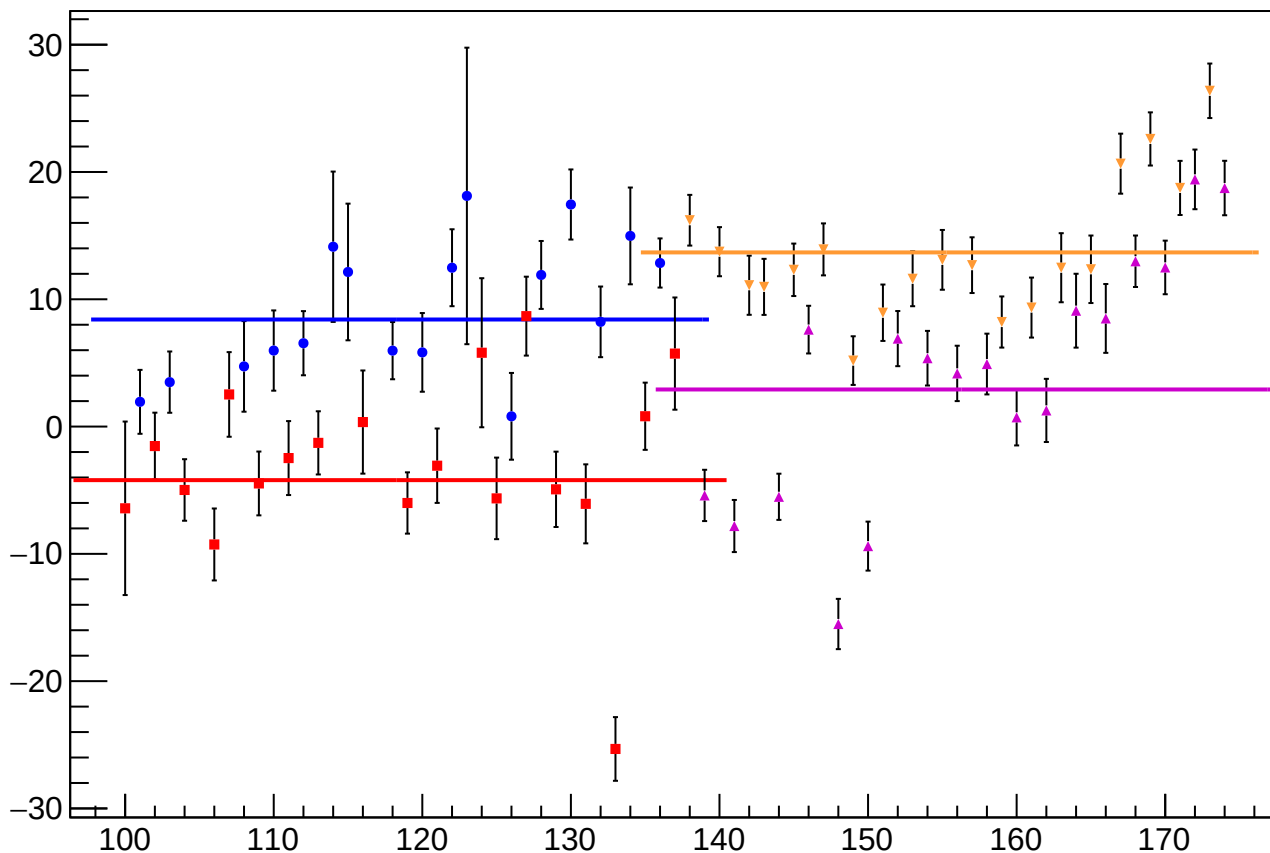
Right: 1913.873+/-0.366 χ^2/NDF : 250923.8/35

In: 2024.386+/-0.319 χ^2/NDF : 747344.4/34

Out: 2100.124+/-0.312 χ^2/NDF : 871973.2/37

All: 2017.075+/-0.223 χ^2/NDF : 1620339.3/72

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 ± 0.711 $\chi^2/\text{NDF}: 44.6/16$

Left Out: 13.682 ± 0.498 $\chi^2/\text{NDF}: 109.4/18$

Right Out: -4.208 ± 0.682 $\chi^2/\text{NDF}: 113.1/18$

Left In: 2.914 ± 0.506 $\chi^2/\text{NDF}: 366.2/17$

Left: 8.375 ± 0.355 $\chi^2/\text{NDF}: 705.6/36$

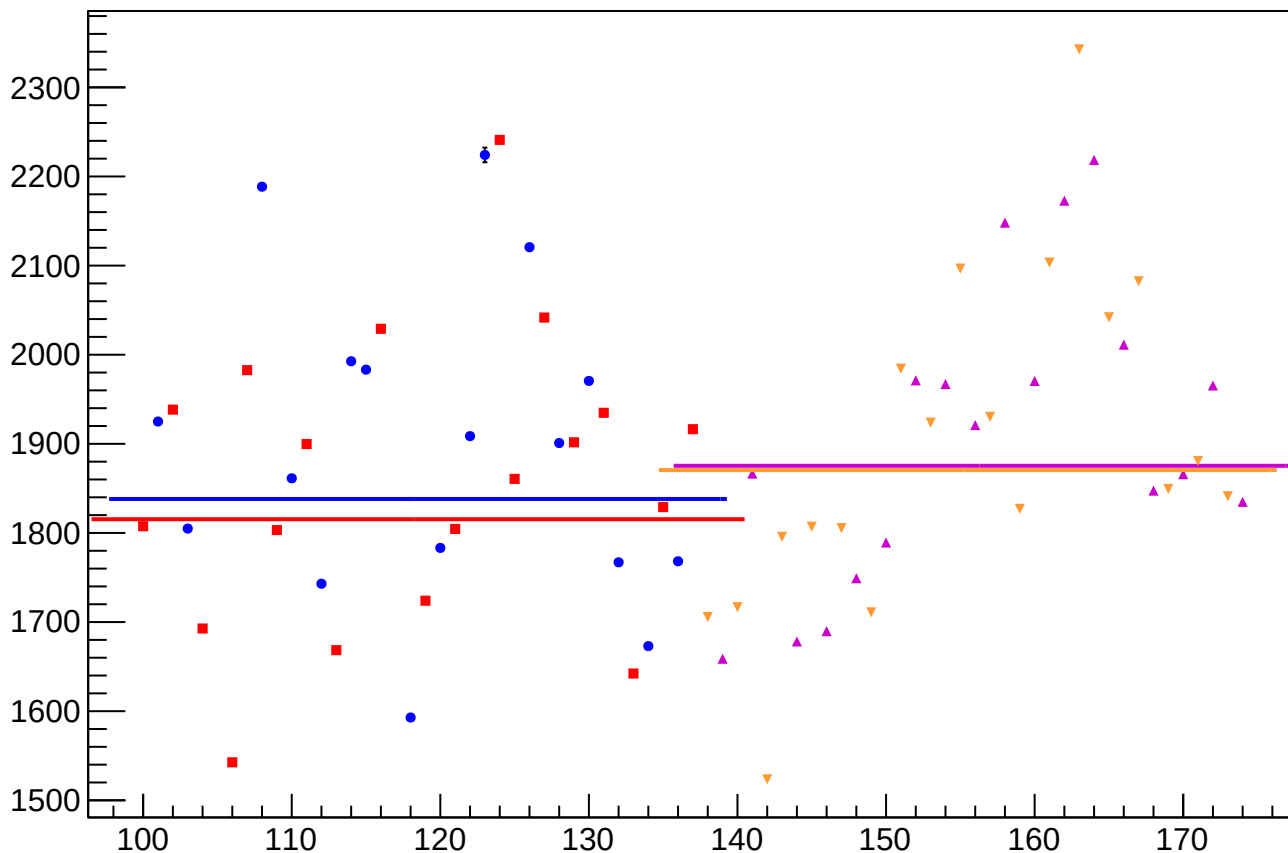
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 4.760 ± 0.412 $\chi^2/\text{NDF}: 450.5/34$

Out: 7.458 ± 0.403 $\chi^2/\text{NDF}: 670.7/37$

All: 6.140 ± 0.288 $\chi^2/\text{NDF}: 1143.1/72$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.143 $\pm$ 0.503 χ^2 /NDF: 82878.7/16

Left Out: 1870.527 $\pm$ 0.352 χ^2 /NDF:223931.2/18

Right Out: 1815.403 $\pm$ 0.483 χ^2 /NDF: 87419.0/18

Left In: 1875.367 $\pm$ 0.358 χ^2 /NDF:182719.3/17

Left: 1872.912 $\pm$ 0.251 χ^2 /NDF: 406743.5/36

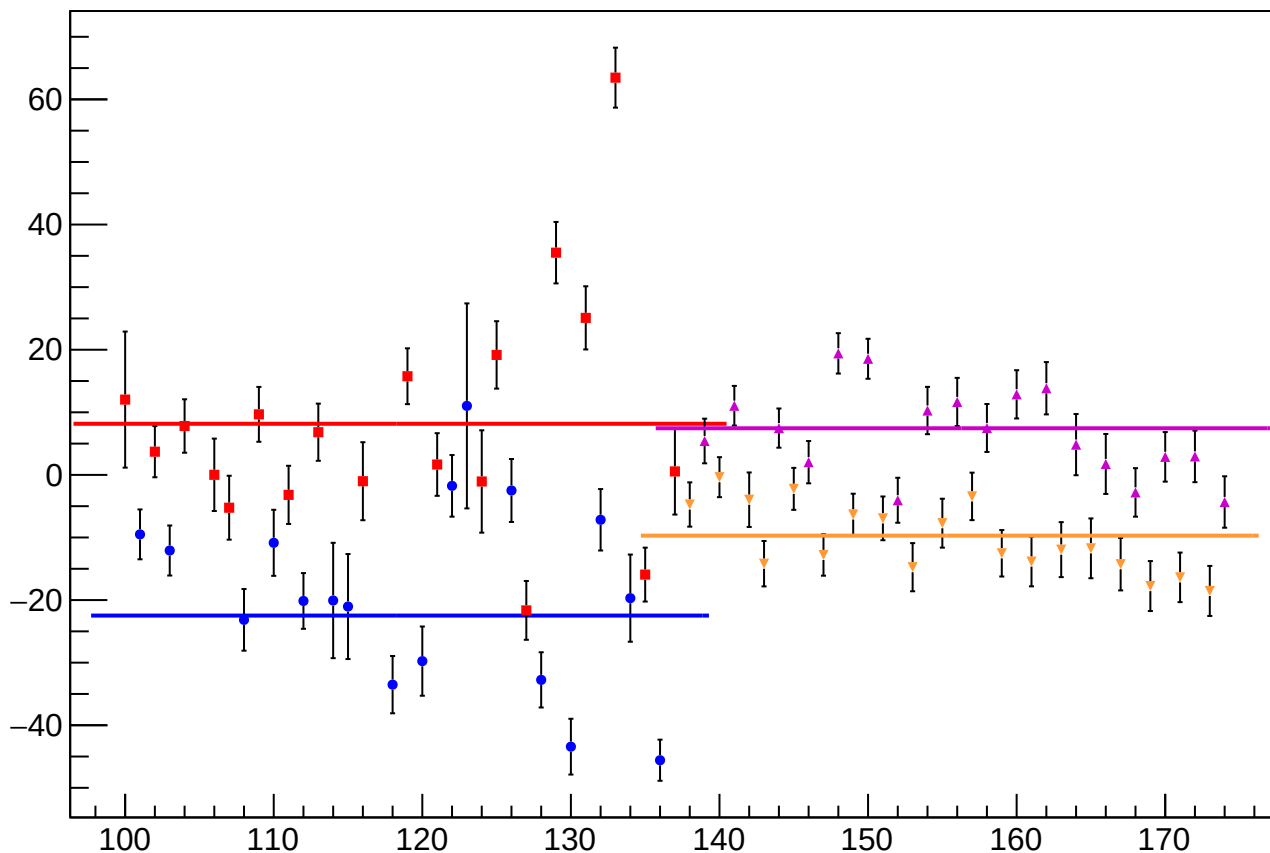
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1862.870 $\pm$ 0.291 χ^2 /NDF:269237.1/34

Out: 1851.349 $\pm$ 0.285 χ^2 /NDF:319860.6/37

All: 1856.974 $\pm$ 0.204 χ^2 /NDF: 589897.7/72

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 ± 1.195 χ^2/NDF : 154.7/16

Left Out: -9.705 ± 0.864 χ^2/NDF : 41.1/18

Right Out: 8.169 ± 1.157 χ^2/NDF : 276.9/18

Left In: 7.450 ± 0.876 χ^2/NDF : 65.8/17

Left: -1.246 ± 0.615 χ^2/NDF : 301.3/36

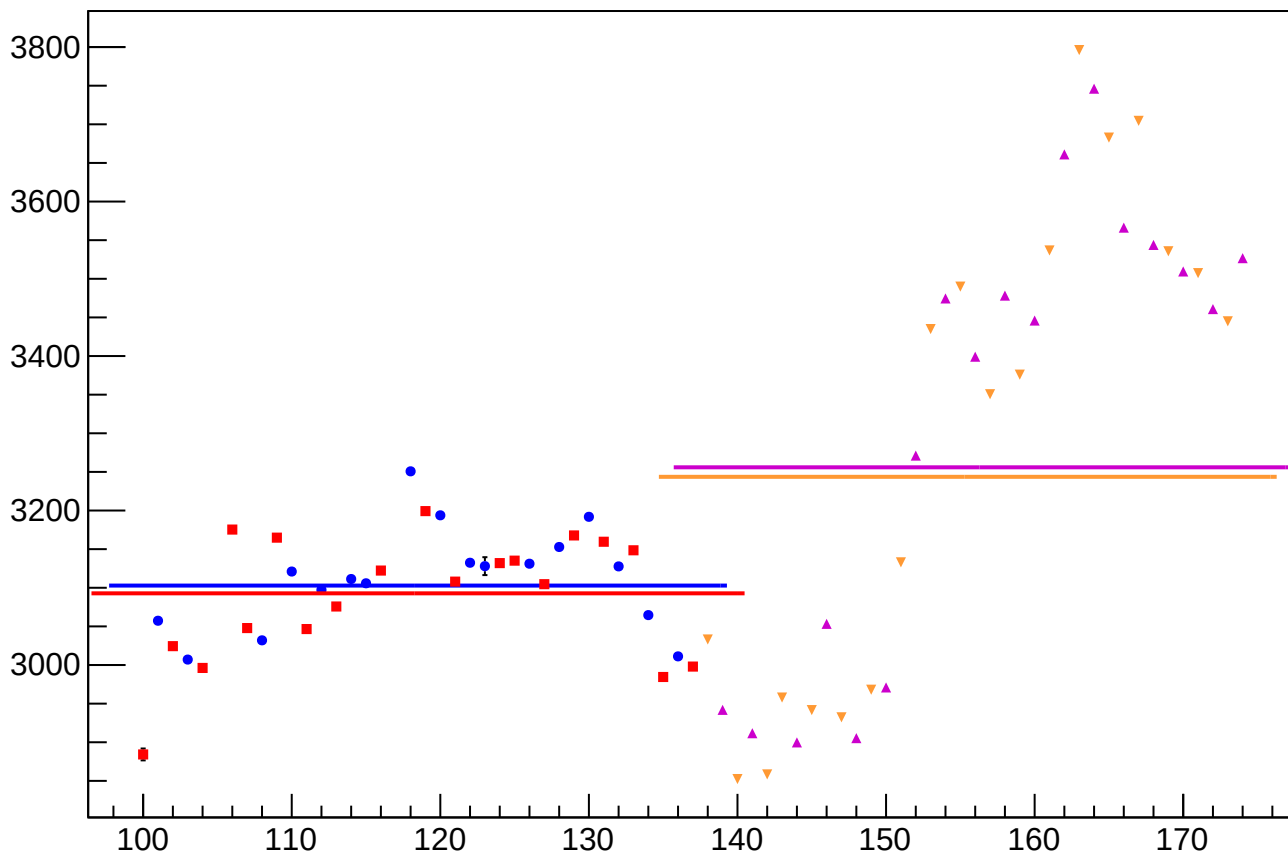
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.012 ± 0.706 χ^2/NDF : 628.6/34

Out: -3.304 ± 0.692 χ^2/NDF : 471.3/37

All: -3.161 ± 0.494 χ^2/NDF : 1100.0/72

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16

Left Out: 3243.636 $\pm$ 0.611 χ^2 /NDF:240199.2/18

Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18

Left In: 3255.943 $\pm$ 0.619 χ^2 /NDF:212971.7/17

Left: 3249.704 $\pm$ 0.435 χ^2 /NDF: 453371.0/36

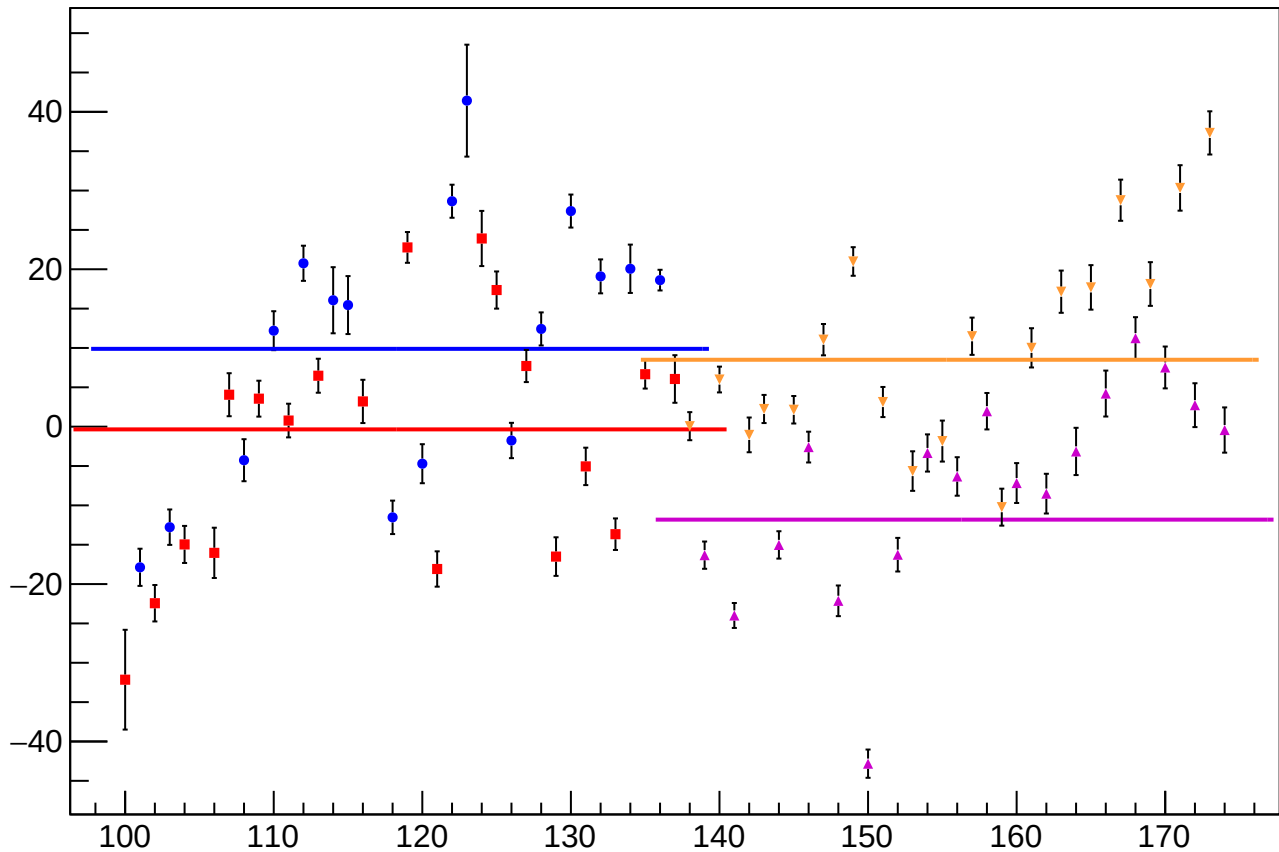
Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35

In: 3202.422 $\pm$ 0.499 χ^2 /NDF:241677.3/34

Out: 3189.619 $\pm$ 0.489 χ^2 /NDF:269801.2/37

All: 3195.889 $\pm$ 0.350 χ^2 /NDF: 511813.7/72

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 $\chi^2/\text{NDF}: 703.6/16$

Left Out: 8.500 ± 0.501 $\chi^2/\text{NDF}: 499.1/18$

Right Out: -0.346 ± 0.547 $\chi^2/\text{NDF}: 628.9/18$

Left In: -11.813 ± 0.518 $\chi^2/\text{NDF}: 689.7/17$

Left: -1.317 ± 0.360 $\chi^2/\text{NDF}: 1982.4/36$

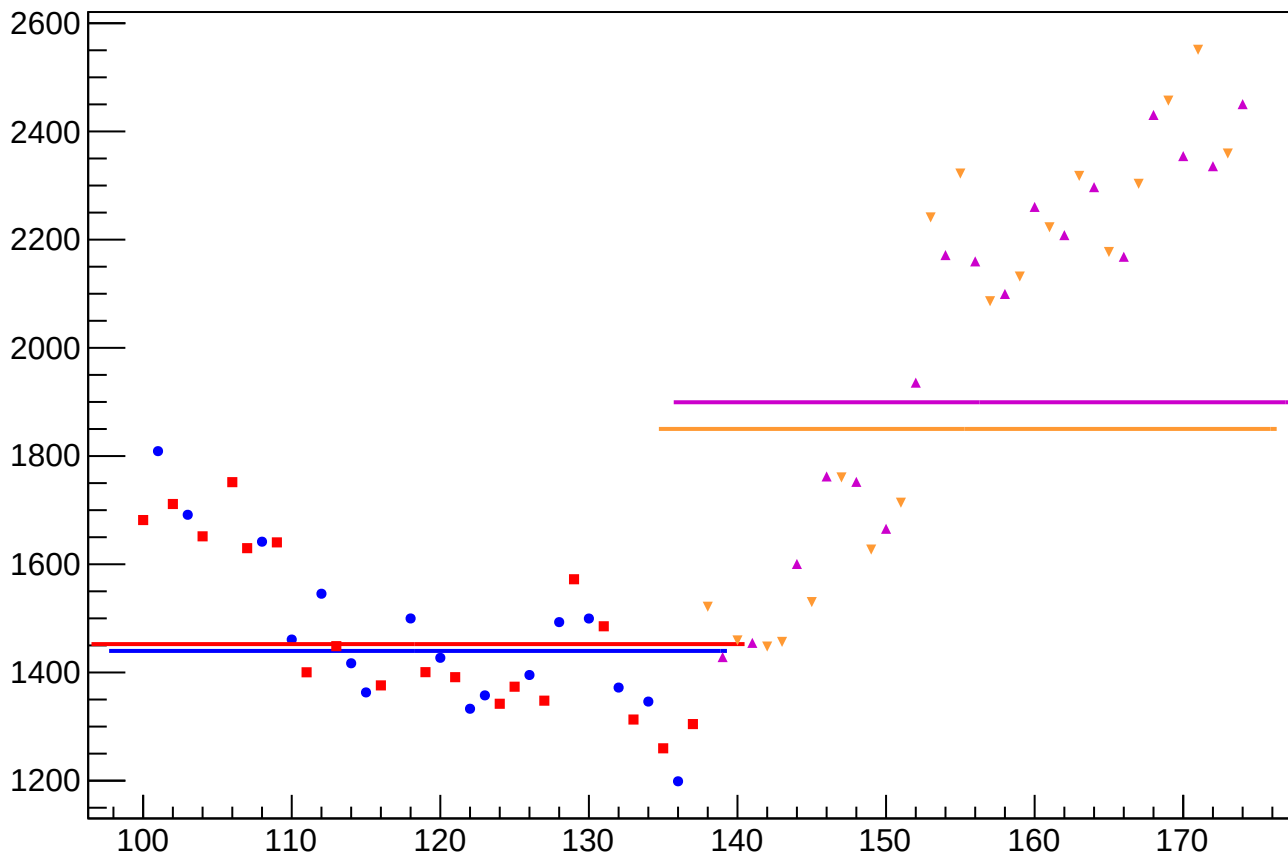
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -1.791 ± 0.380 $\chi^2/\text{NDF}: 2202.9/34$

Out: 4.461 ± 0.370 $\chi^2/\text{NDF}: 1270.1/37$

All: 1.425 ± 0.265 $\chi^2/\text{NDF}: 3612.1/72$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826 $\pm$ 0.396 χ^2 /NDF: 172823.5/16

Left Out: 1850.150 $\pm$ 0.354 χ^2 /NDF: 1093513.4/18

Right Out: 1452.452 $\pm$ 0.387 χ^2 /NDF: 138519.7/18

Left In: 1899.432 $\pm$ 0.366 χ^2 /NDF: 867471.6/17

Left: 1873.967 $\pm$ 0.255 χ^2 /NDF: 1970327.8/36

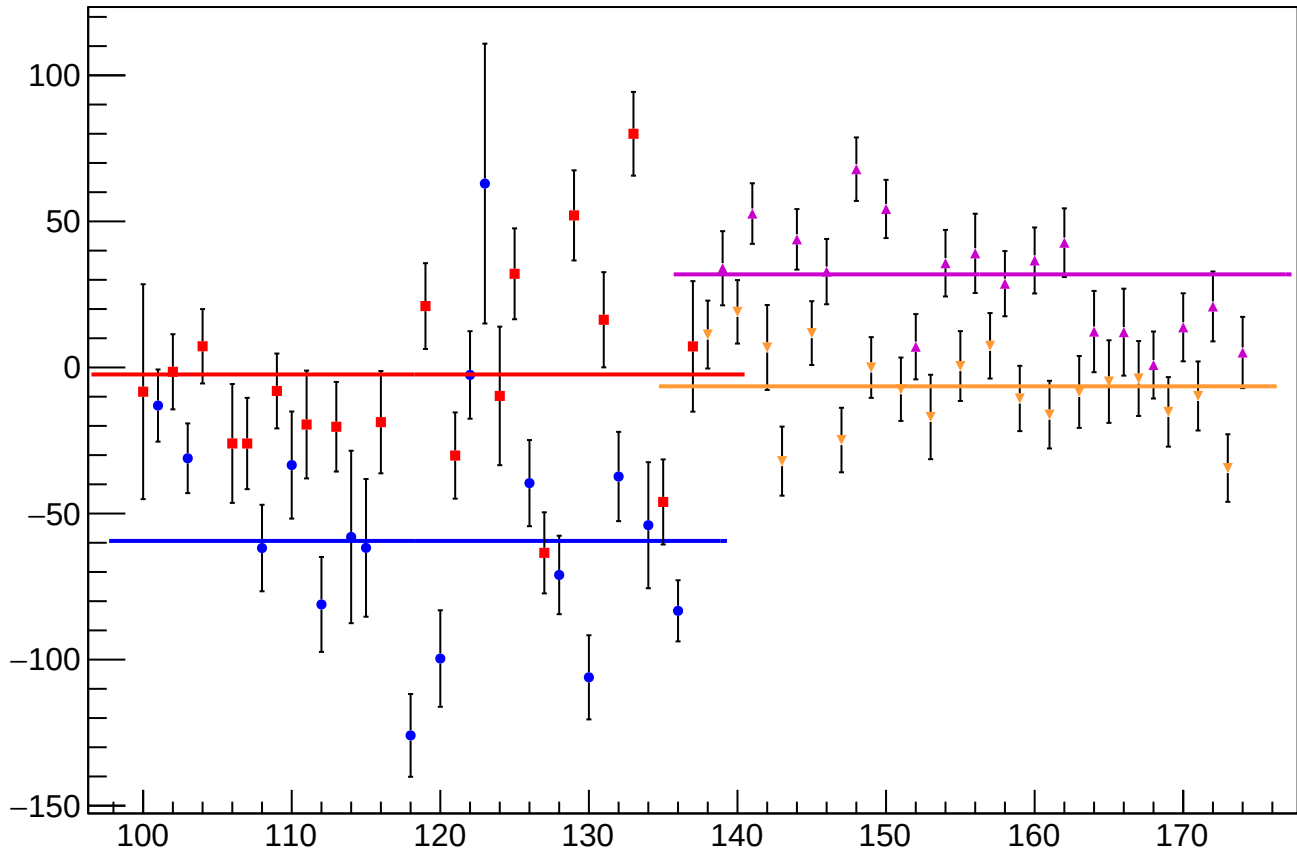
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1687.162 $\pm$ 0.269 χ^2 /NDF: 1766617.7/34

Out: 1668.578 $\pm$ 0.261 χ^2 /NDF: 1806819.1/37

All: 1677.605 $\pm$ 0.187 χ^2 /NDF: 3575893.7/72

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 $\chi^2/\text{NDF}: 92.9/16$

Left Out: -6.450 ± 2.704 $\chi^2/\text{NDF}: 29.1/18$

Right Out: -2.388 ± 3.630 $\chi^2/\text{NDF}: 93.9/18$

Left In: 31.870 ± 2.731 $\chi^2/\text{NDF}: 47.0/17$

Left: 12.520 ± 1.922 $\chi^2/\text{NDF}: 175.5/36$

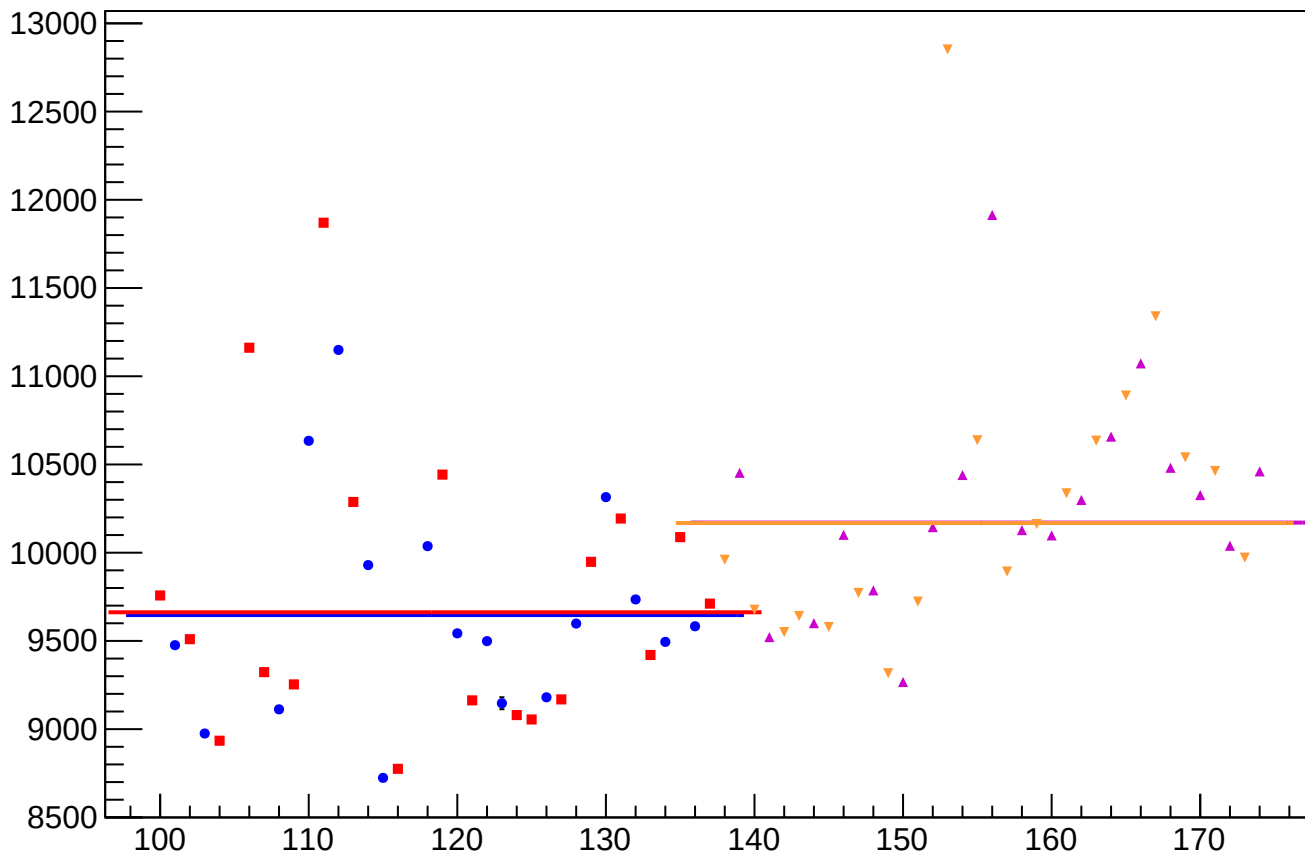
Right: -30.113 ± 2.601 $\chi^2/\text{NDF}: 306.8/35$

In: 0.008 ± 2.203 $\chi^2/\text{NDF}: 529.6/34$

Out: -5.000 ± 2.169 $\chi^2/\text{NDF}: 123.9/37$

All: -2.536 ± 1.546 $\chi^2/\text{NDF}: 656.1/72$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480 ± 2.637 $\chi^2/\text{NDF}: 44060.3/16$

Left Out: 10168.187 ± 1.912 $\chi^2/\text{NDF}: 139795.8/18$

Right Out: 9662.363 ± 2.567 $\chi^2/\text{NDF}: 77584.0/18$

Left In: 10170.652 ± 1.931 $\chi^2/\text{NDF}: 81459.6/17$

Left: 10169.407 ± 1.359 $\chi^2/\text{NDF}: 221256.2/36$

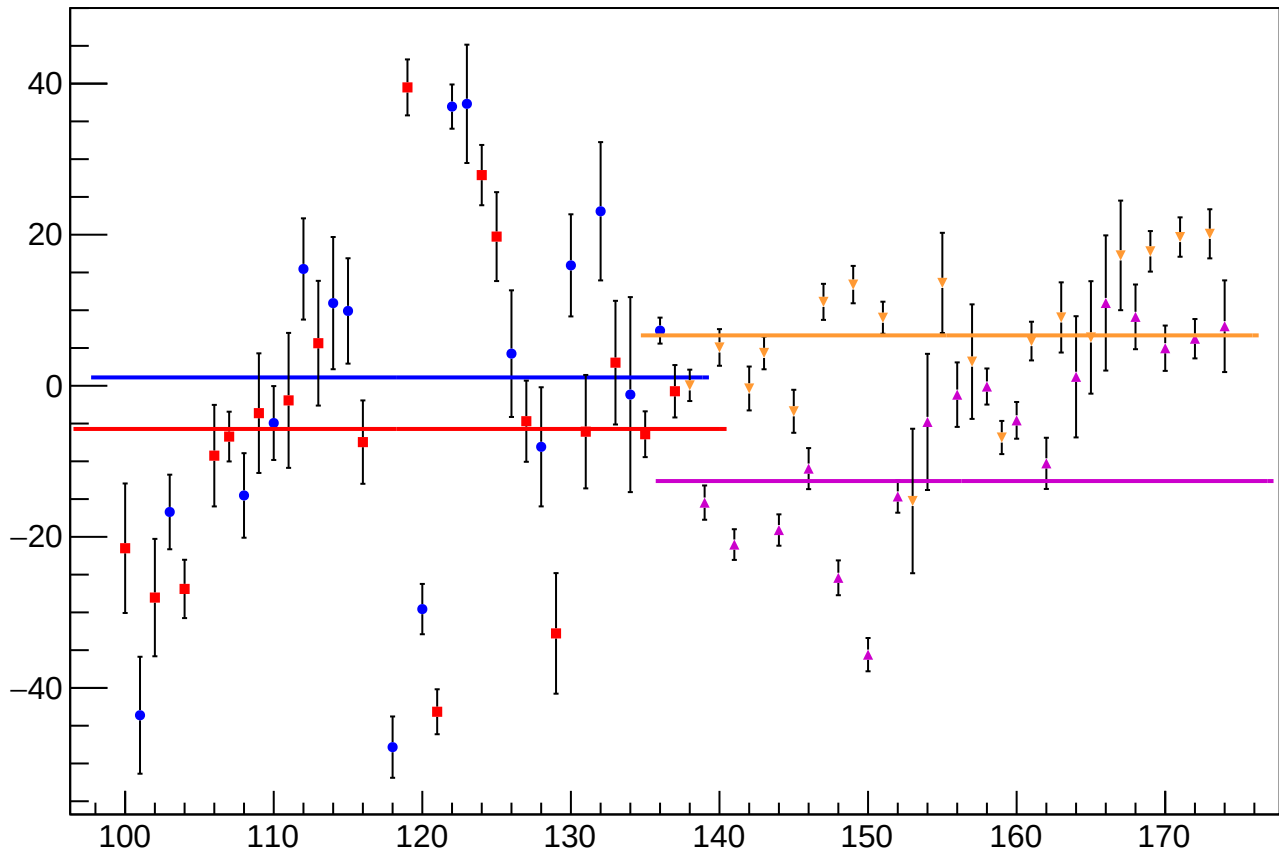
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 9987.613 ± 1.558 $\chi^2/\text{NDF}: 151240.7/34$

Out: 9987.620 ± 1.533 $\chi^2/\text{NDF}: 242355.7/37$

All: 9987.617 ± 1.093 $\chi^2/\text{NDF}: 393596.4/72$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$

Left Out: 6.671 ± 0.660 $\chi^2/\text{NDF}: 148.2/18$

Right Out: -5.716 ± 1.091 $\chi^2/\text{NDF}: 456.0/18$

Left In: -12.612 ± 0.662 $\chi^2/\text{NDF}: 349.9/17$

Left: -2.944 ± 0.468 $\chi^2/\text{NDF}: 923.2/36$

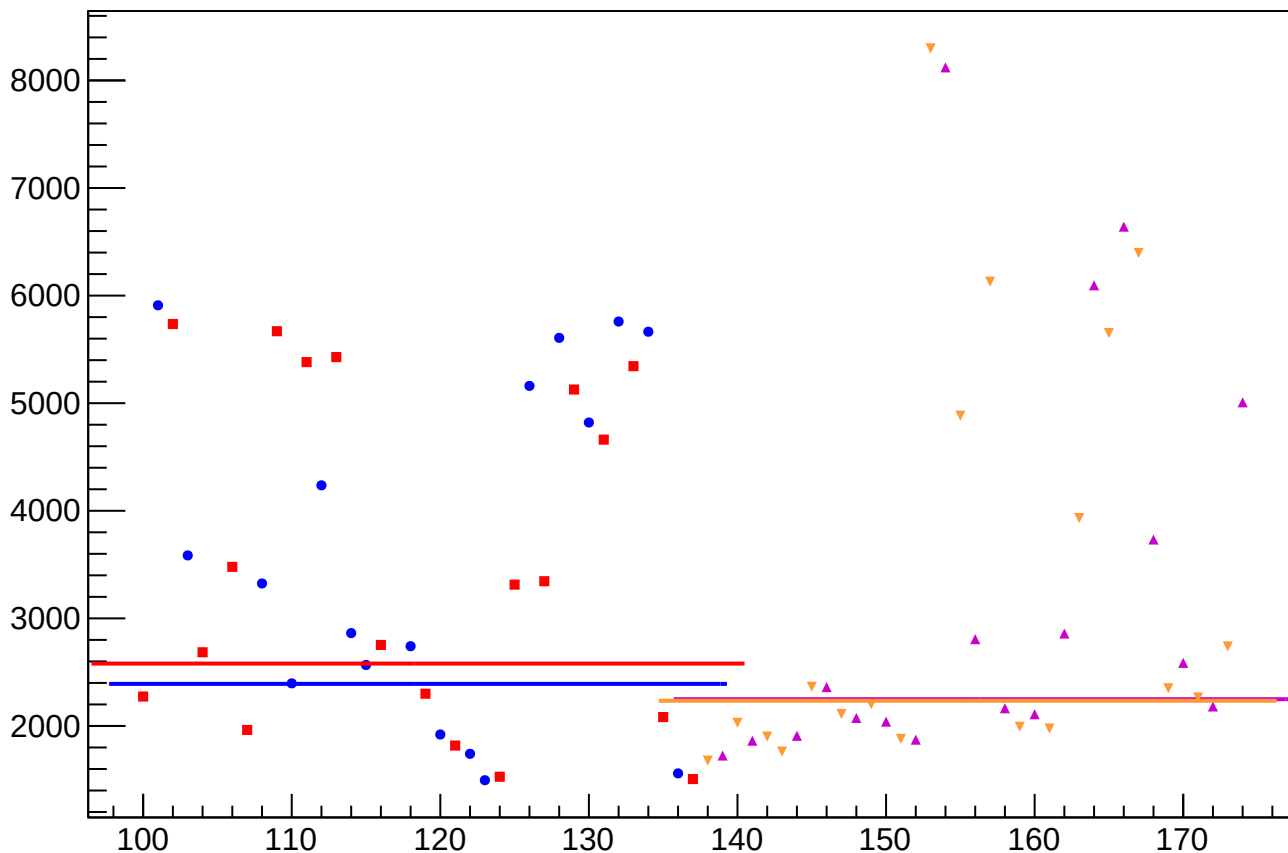
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -8.795 ± 0.563 $\chi^2/\text{NDF}: 959.0/34$

Out: 3.350 ± 0.565 $\chi^2/\text{NDF}: 698.5/37$

All: -2.748 ± 0.399 $\chi^2/\text{NDF}: 1889.5/72$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162 ± 0.754 $\chi^2/\text{NDF}: 2600547.2/16$

Left Out: 2233.960 ± 0.467 $\chi^2/\text{NDF}: 3440060.3/18$

Right Out: 2580.040 ± 0.772 $\chi^2/\text{NDF}: 2365271.4/18$

Left In: 2248.888 ± 0.468 $\chi^2/\text{NDF}: 2905338.3/17$

Left: 2241.404 ± 0.331 $\chi^2/\text{NDF}: 6345908.1/36$

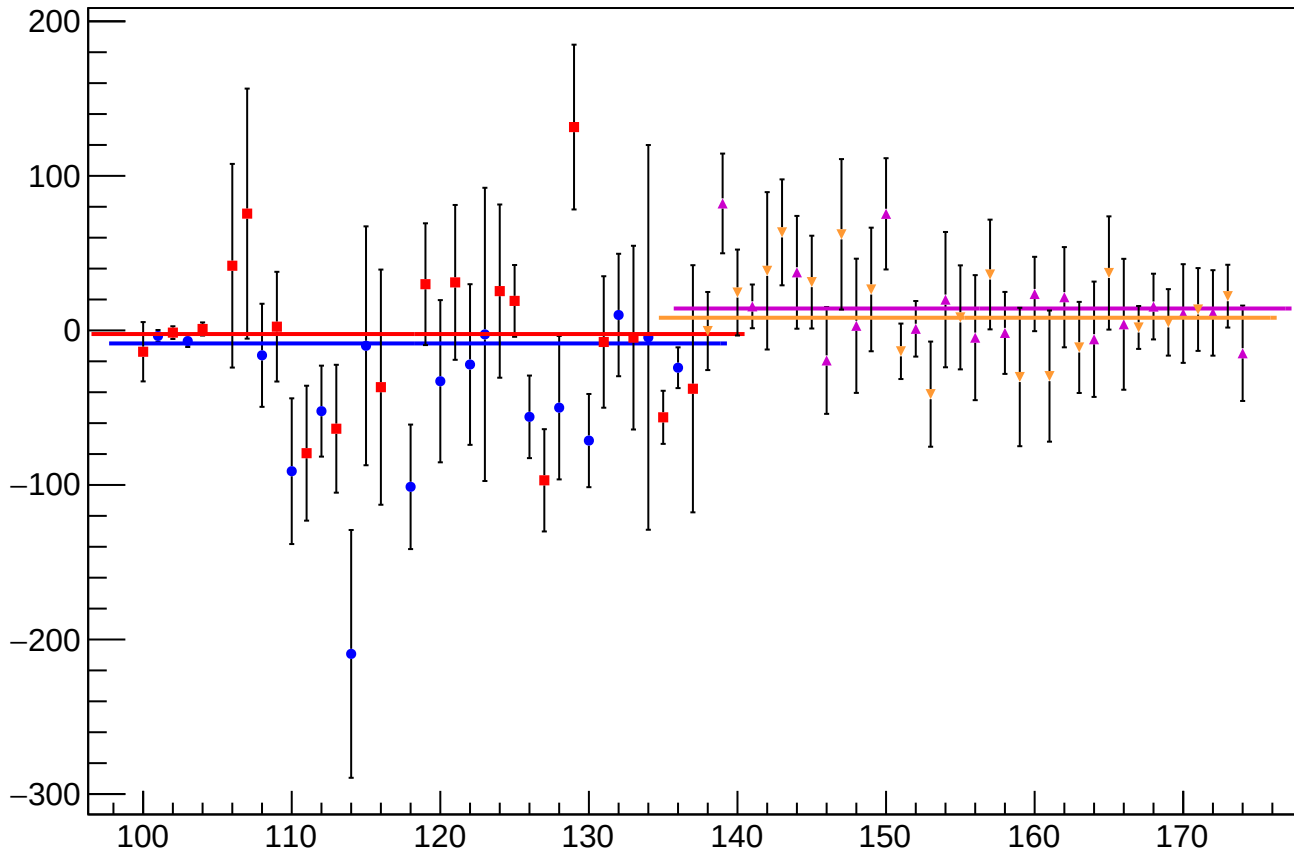
Right: 2483.443 ± 0.539 $\chi^2/\text{NDF}: 4996468.7/35$

In: 2288.479 ± 0.398 $\chi^2/\text{NDF}: 5531575.6/34$

Out: 2326.753 ± 0.400 $\chi^2/\text{NDF}: 5952589.2/37$

All: 2307.534 ± 0.282 $\chi^2/\text{NDF}: 11488773.6/71$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 ± 2.587 χ^2/NDF : 28.9/16

Left Out: 8.194 ± 6.199 χ^2/NDF : 13.0/18

Right Out: -2.348 ± 2.787 χ^2/NDF : 34.7/18

Left In: 14.177 ± 6.455 χ^2/NDF : 11.3/17

Left: 11.065 ± 4.471 χ^2/NDF : 24.7/36

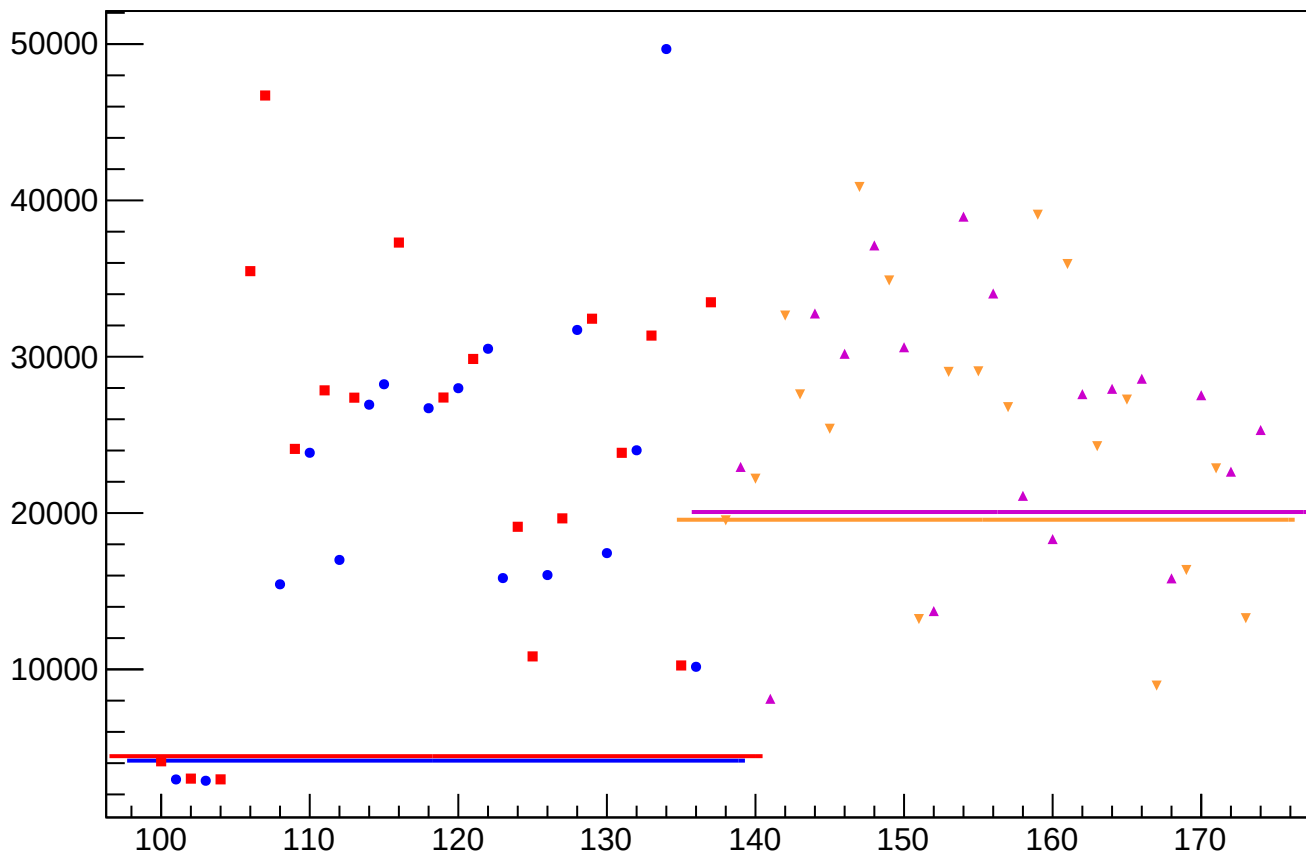
Right: -5.615 ± 1.896 χ^2/NDF : 66.1/35

In: -5.301 ± 2.402 χ^2/NDF : 50.8/34

Out: -0.576 ± 2.542 χ^2/NDF : 50.0/37

All: -3.072 ± 1.746 χ^2/NDF : 102.7/72

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318 ± 1.830 $\chi^2/\text{NDF}: 599070.5/16$

Left Out: 19572.214 ± 4.384 $\chi^2/\text{NDF}: 3908100.0/18$

Right Out: 4447.123 ± 1.971 $\chi^2/\text{NDF}: 7426930.4/18$

Left In: 20065.876 ± 4.564 $\chi^2/\text{NDF}: 3752277.9/17$

Left: 19809.080 ± 3.162 $\chi^2/\text{NDF}: 7666462.8/36$

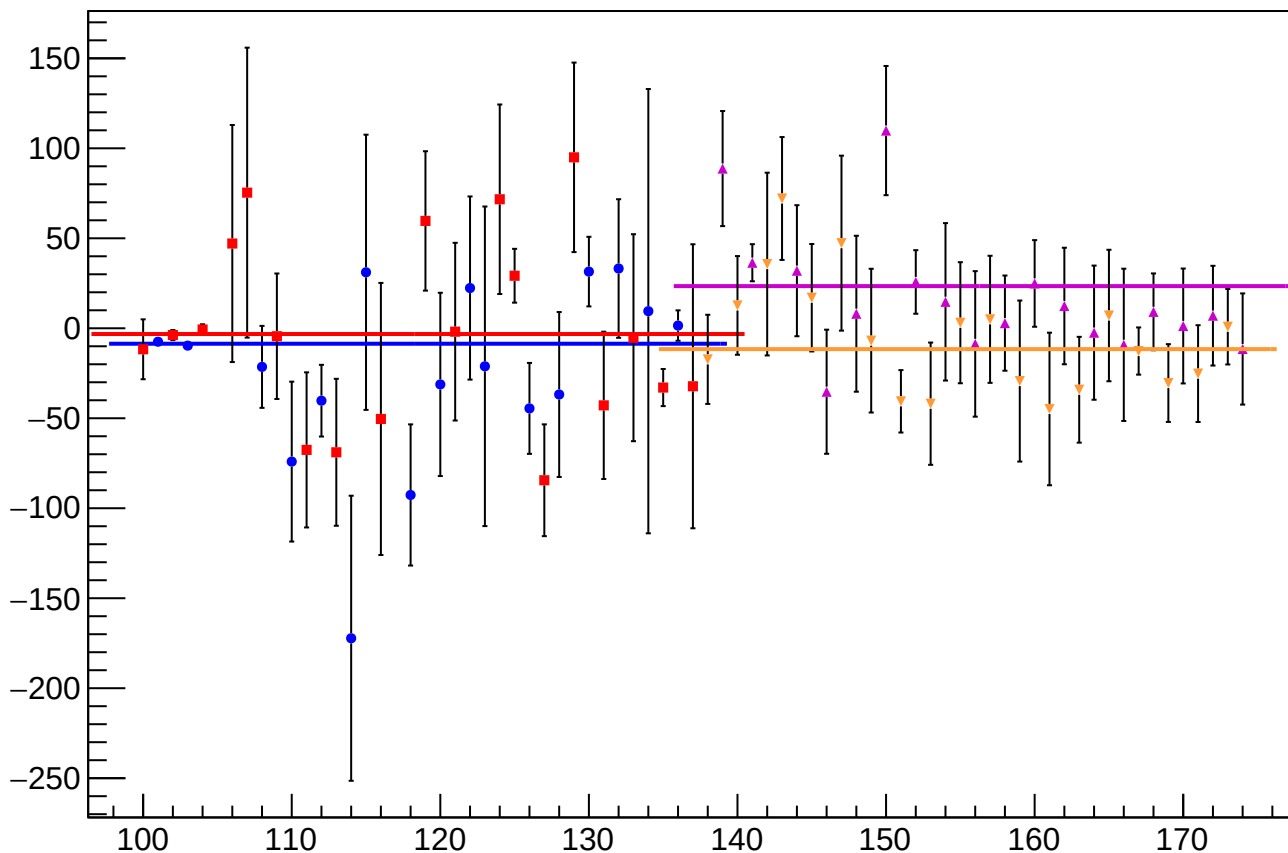
Right: 4294.168 ± 1.341 $\chi^2/\text{NDF}: 13428219.0/35$

In: 6363.830 ± 1.698 $\chi^2/\text{NDF}: 20201836.7/34$

Out: 6989.708 ± 1.797 $\chi^2/\text{NDF}: 21238384.6/37$

All: 6659.039 ± 1.234 $\chi^2/\text{NDF}: 41504286.6/71$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.586 $\pm$ 1.778 χ^2/NDF : 24.4/16

Left Out: -11.581 $\pm$ 6.104 χ^2/NDF : 17.1/18

Right Out: -3.194 $\pm$ 1.922 χ^2/NDF : 36.9/18

Left In: 23.425 $\pm$ 5.919 χ^2/NDF : 19.7/17

Left: 6.461 $\pm$ 4.249 χ^2/NDF : 53.8/36

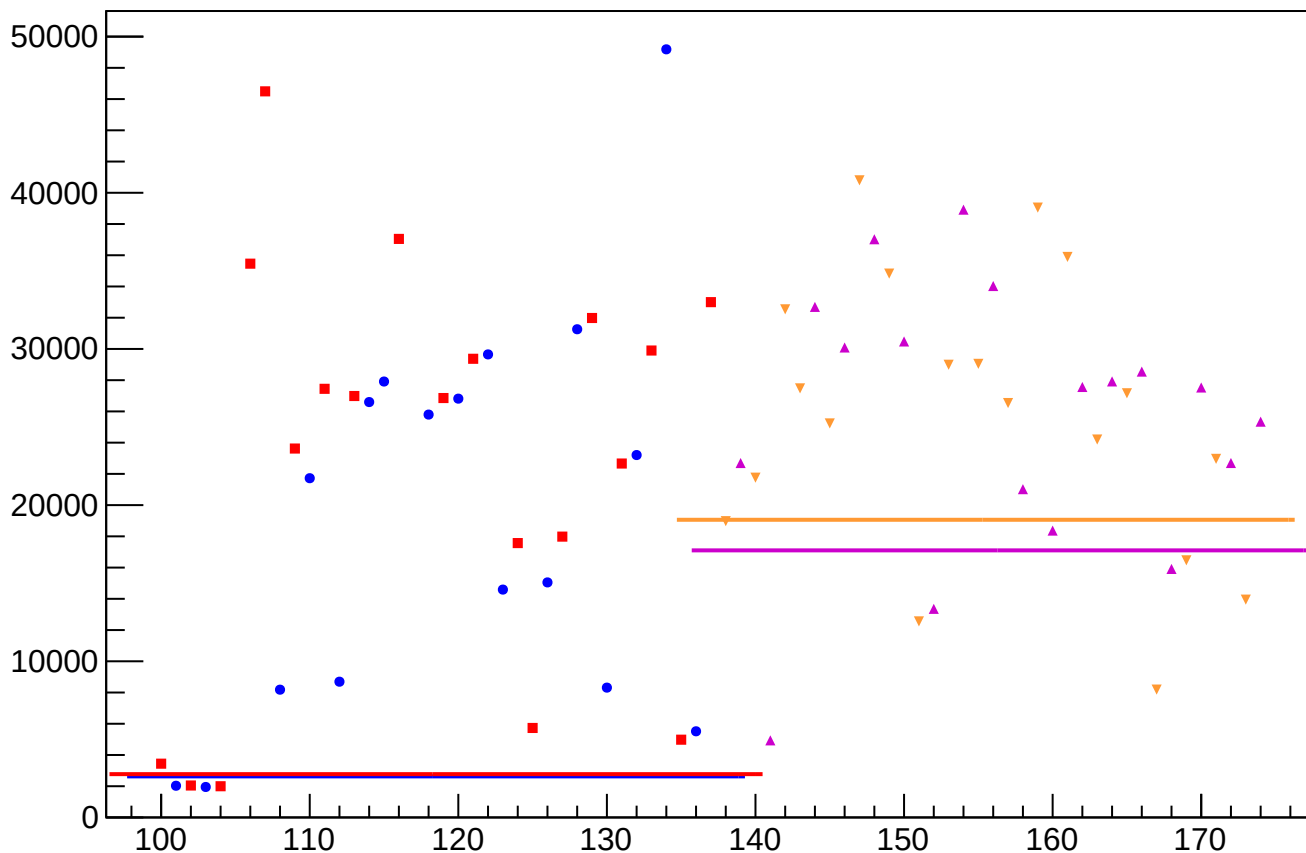
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -5.938 $\pm$ 1.703 χ^2/NDF : 70.9/34

Out: -3.951 $\pm$ 1.833 χ^2/NDF : 55.7/37

All: -5.018 $\pm$ 1.248 χ^2/NDF : 127.3/72

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547 ± 1.257 $\chi^2/\text{NDF}: 5588981.6/16$

Left Out: 19061.130 ± 4.316 $\chi^2/\text{NDF}: 4236575.4/18$

Right Out: 2773.446 ± 1.359 $\chi^2/\text{NDF}: 7835878.7/18$

Left In: 17102.309 ± 4.185 $\chi^2/\text{NDF}: 6151462.1/17$

Left: 18051.543 ± 3.005 $\chi^2/\text{NDF}: 10494188.3/36$

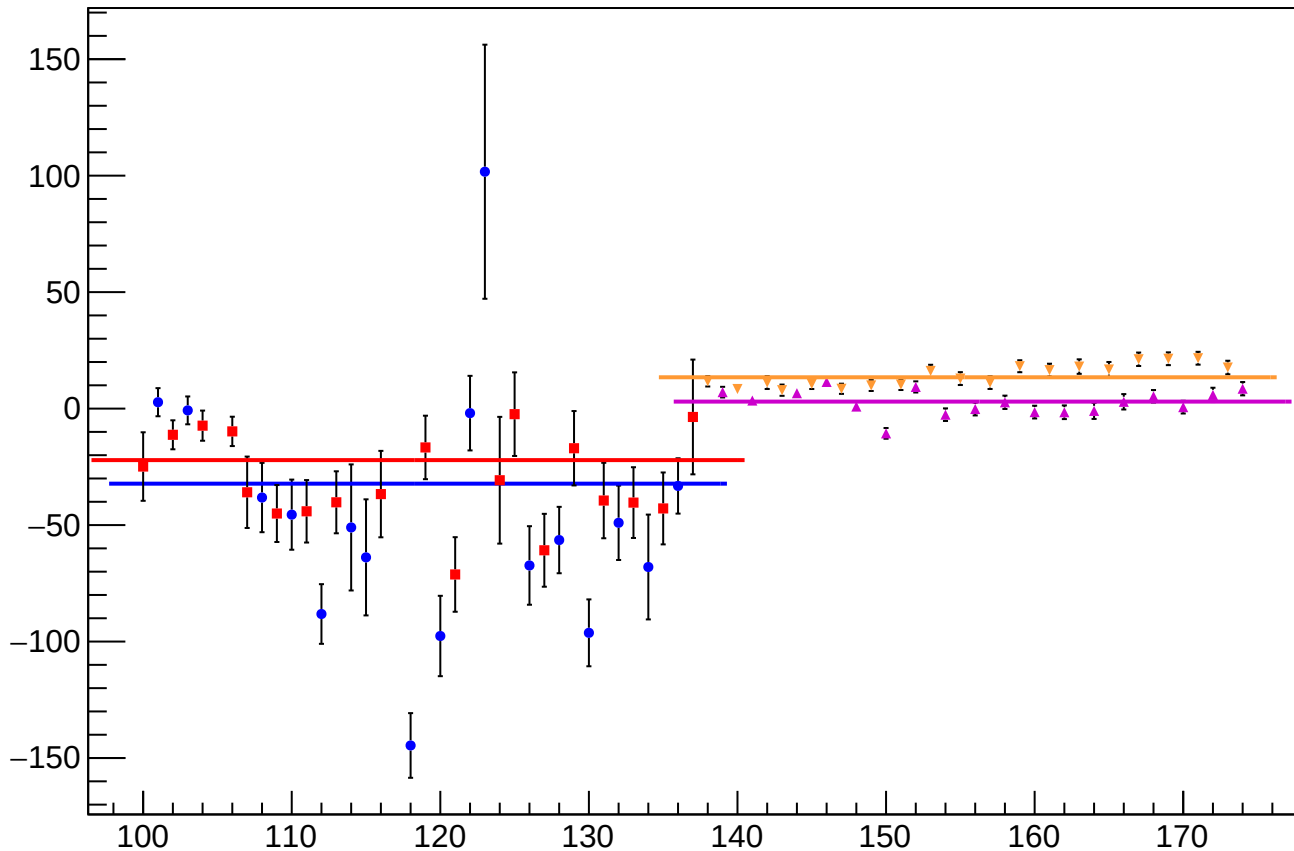
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3828.053 ± 1.204 $\chi^2/\text{NDF}: 22707414.7/34$

Out: 4242.926 ± 1.296 $\chi^2/\text{NDF}: 25027507.2/37$

All: 4020.157 ± 0.882 $\chi^2/\text{NDF}: 47789907.5/71$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.222 ± 2.981 χ^2/NDF : 203.7/16

Left Out: 13.447 ± 0.589 χ^2/NDF : 58.8/18

Right Out: -22.111 ± 2.669 χ^2/NDF : 43.7/18

Left In: 3.005 ± 0.601 χ^2/NDF : 83.7/17

Left: 8.328 ± 0.421 χ^2/NDF : 296.3/36

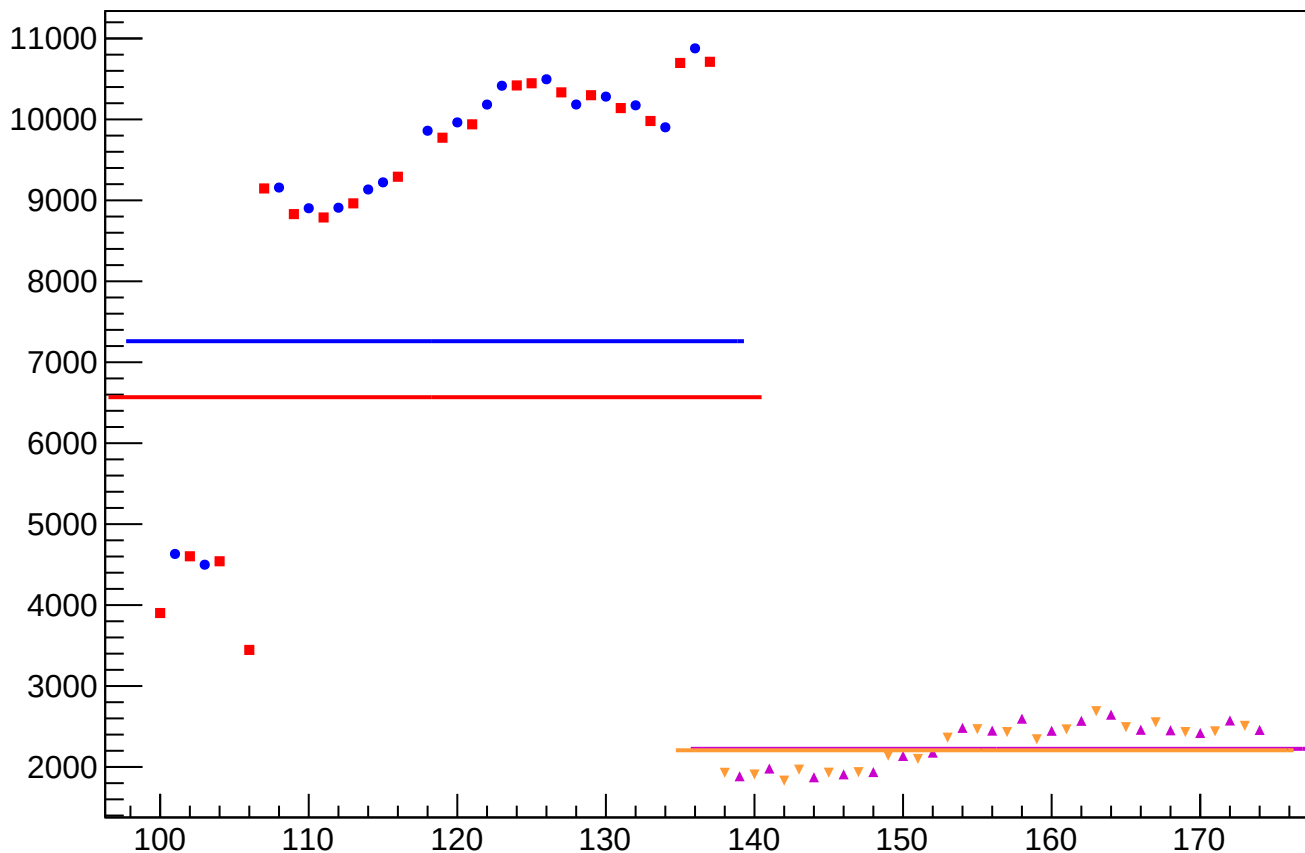
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.630 ± 0.589 χ^2/NDF : 421.5/34

Out: 11.794 ± 0.576 χ^2/NDF : 271.6/37

All: 6.830 ± 0.412 χ^2/NDF : 845.4/72

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081 $\pm$ 2.108 χ^2/NDF : 1636373.2/16

Left Out: 2206.206 $\pm$ 0.417 χ^2/NDF :396426.9/18

Right Out: 6568.180 $\pm$ 1.887 χ^2/NDF : 2196546.0/18

Left In: 2224.254 $\pm$ 0.425 χ^2/NDF :424078.9/17

Left: 2215.054 $\pm$ 0.298 χ^2/NDF : 821425.2/36

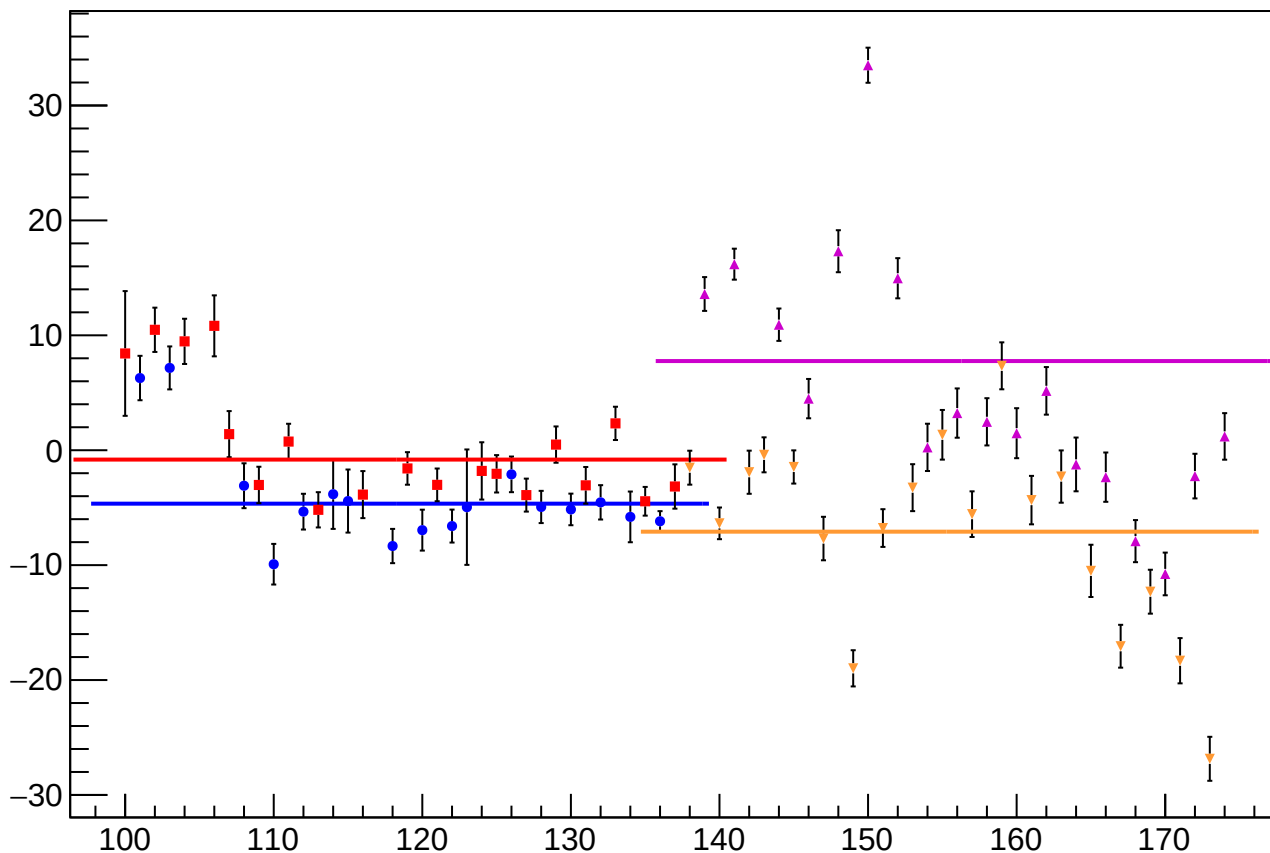
Right: 6876.033 $\pm$ 1.406 χ^2/NDF : 3892707.9/35

In: 2420.906 $\pm$ 0.417 χ^2/NDF :7543625.9/34

Out: 2409.002 $\pm$ 0.407 χ^2/NDF :7685391.1/37

All: 2414.815 $\pm$ 0.291 χ^2/NDF : 15229434.8/7

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 χ^2/NDF : 97.6/16

Left Out: -7.088 ± 0.412 χ^2/NDF : 366.6/18

Right Out: -0.814 ± 0.388 χ^2/NDF : 123.7/18

Left In: 7.760 ± 0.425 χ^2/NDF : 673.1/17

Left: 0.116 ± 0.296 χ^2/NDF : 1669.0/36

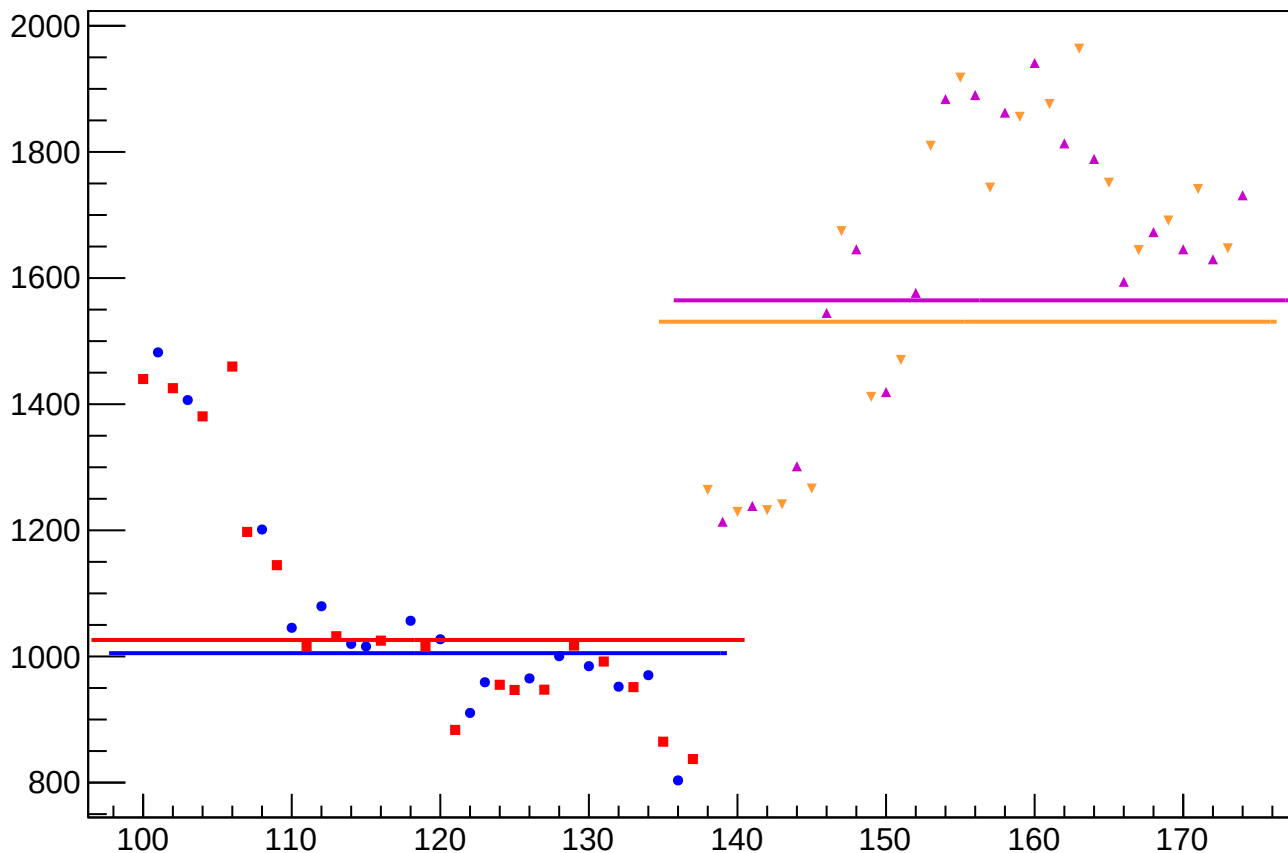
Right: -2.712 ± 0.276 χ^2/NDF : 269.5/35

In: 1.068 ± 0.288 χ^2/NDF : 1231.1/34

Out: -3.765 ± 0.283 χ^2/NDF : 612.9/37

All: -1.395 ± 0.202 χ^2/NDF : 1987.3/72

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.227 +/- 0.278 χ^2/NDF : 361954.2/16

Left Out: 1530.785 +/- 0.292 χ^2/NDF : 748341.5/18

Right Out: 1026.158 +/- 0.275 χ^2/NDF : 333119.0/18

Left In: 1564.671 +/- 0.300 χ^2/NDF : 593300.8/17

Left: 1547.225 +/- 0.209 χ^2/NDF : 1348198.0/36

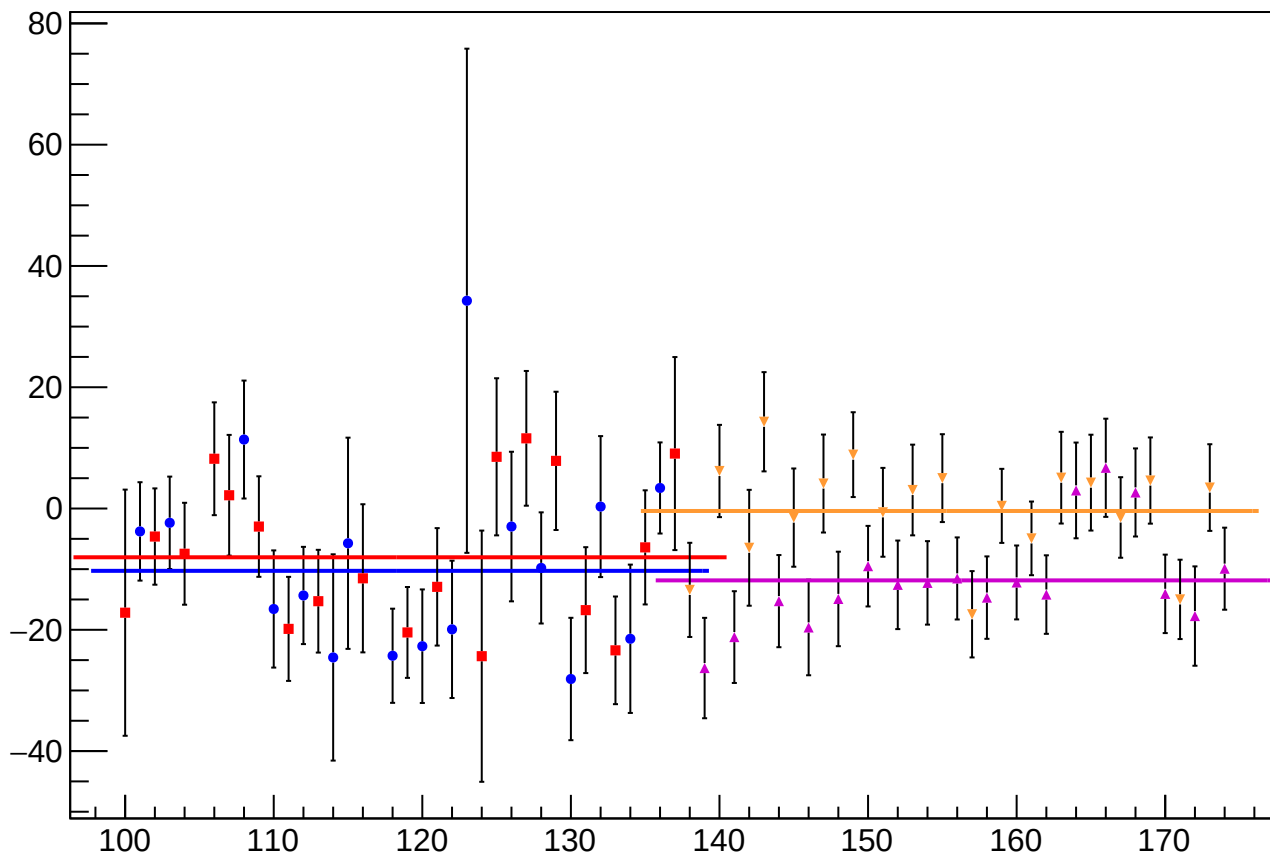
Right: 1015.803 +/- 0.195 χ^2/NDF : 697945.4/35

In: 1263.038 +/- 0.204 χ^2/NDF : 2826492.9/34

Out: 1263.511 +/- 0.200 χ^2/NDF : 2668590.2/37

All: 1263.279 +/- 0.143 χ^2/NDF : 5495085.9/72

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 ± 2.408 $\chi^2/\text{NDF}: 23.5/16$

Left Out: -0.406 ± 1.669 $\chi^2/\text{NDF}: 23.0/18$

Right Out: -8.041 ± 2.278 $\chi^2/\text{NDF}: 22.8/18$

Left In: -11.851 ± 1.691 $\chi^2/\text{NDF}: 19.8/17$

Left: -6.054 ± 1.188 $\chi^2/\text{NDF}: 66.1/36$

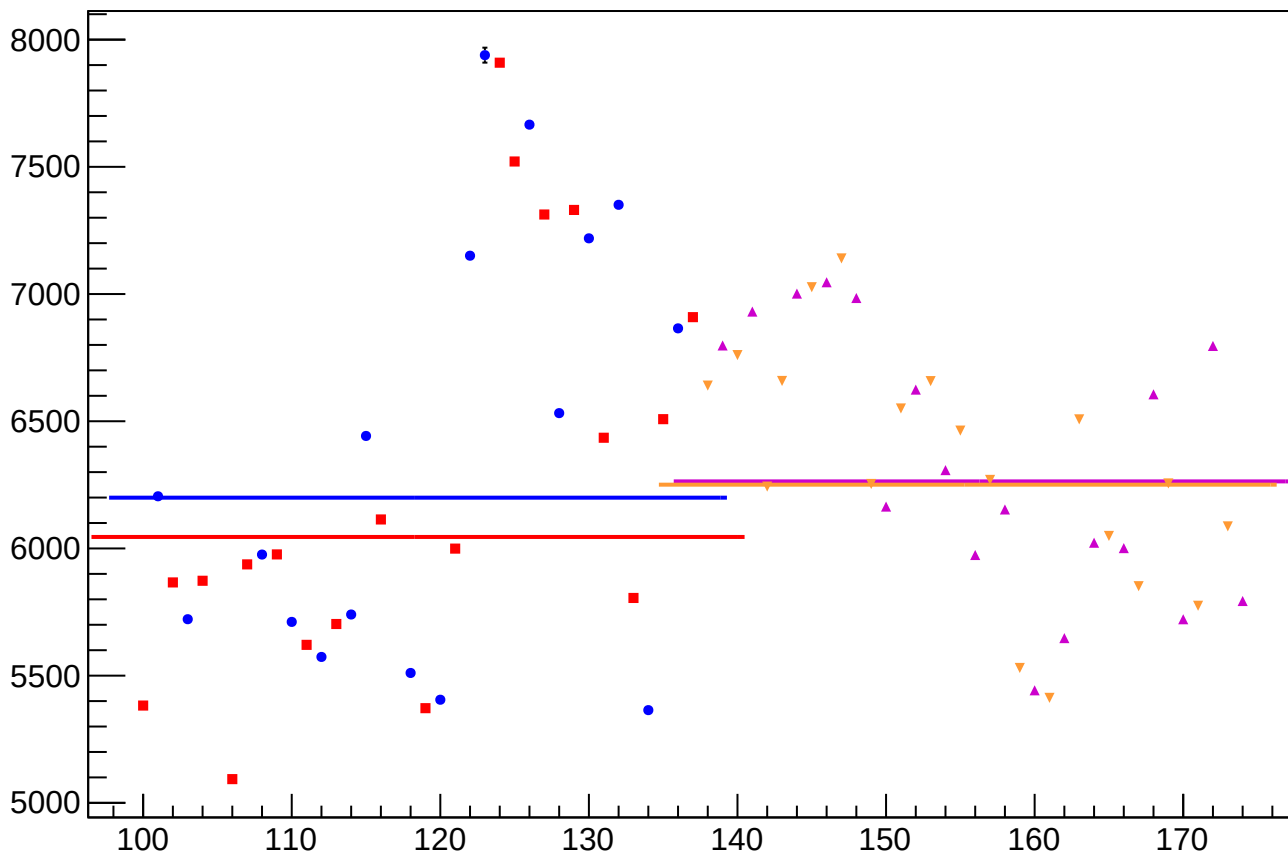
Right: -9.097 ± 1.655 $\chi^2/\text{NDF}: 46.7/35$

In: -11.331 ± 1.384 $\chi^2/\text{NDF}: 43.6/34$

Out: -3.073 ± 1.347 $\chi^2/\text{NDF}: 53.1/37$

All: -7.089 ± 0.965 $\chi^2/\text{NDF}: 115.0/72$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6199.617 $\pm$ 1.703 χ^2/NDF : 171760.4/16

Left Out: 6250.695 $\pm$ 1.180 χ^2/NDF : 160919.9/18

Right Out: 6045.172 $\pm$ 1.611 χ^2/NDF : 158323.0/18

Left In: 6263.580 $\pm$ 1.196 χ^2/NDF : 184144.1/17

Left: 6257.053 $\pm$ 0.840 χ^2/NDF : 345122.8/36

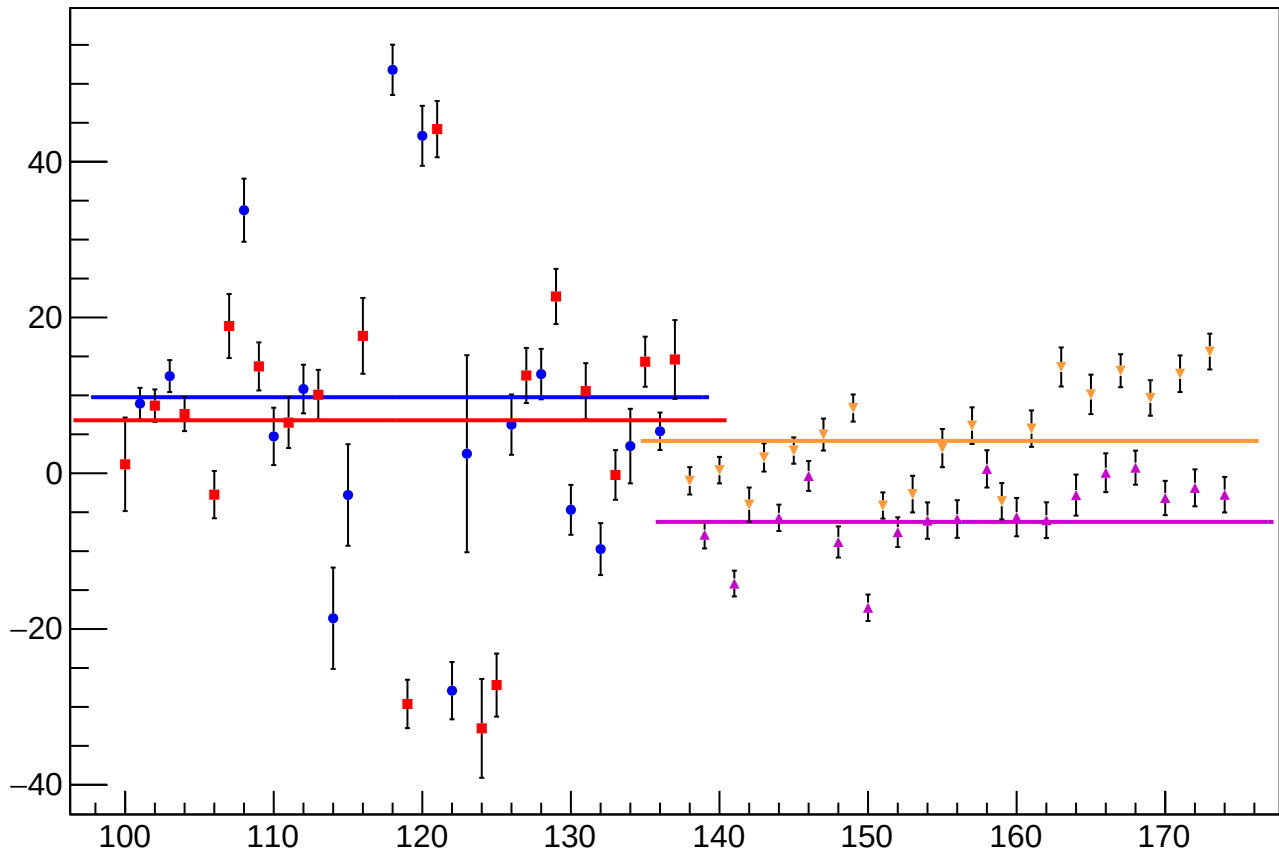
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6242.448 $\pm$ 0.979 χ^2/NDF : 356849.6/34

Out: 6178.908 $\pm$ 0.952 χ^2/NDF : 329832.4/37

All: 6209.808 $\pm$ 0.682 χ^2/NDF : 688847.6/72

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 ± 0.797 $\chi^2/\text{NDF}: 473.8/16$

Left Out: 4.154 ± 0.474 $\chi^2/\text{NDF}: 162.4/18$

Right Out: 6.801 ± 0.765 $\chi^2/\text{NDF}: 421.8/18$

Left In: -6.242 ± 0.491 $\chi^2/\text{NDF}: 111.7/17$

Left: -0.869 ± 0.341 $\chi^2/\text{NDF}: 506.3/36$

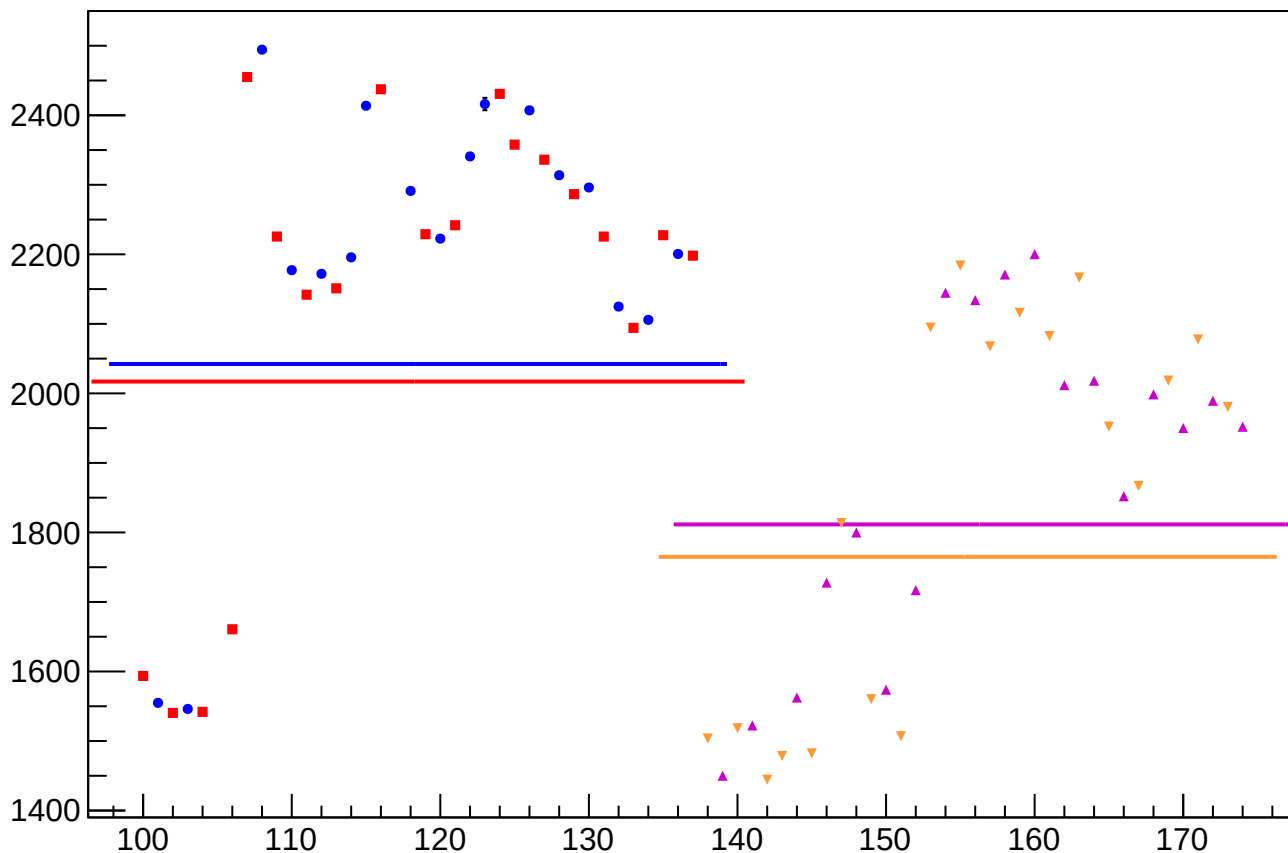
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

In: -1.843 ± 0.418 $\chi^2/\text{NDF}: 878.1/34$

Out: 4.889 ± 0.403 $\chi^2/\text{NDF}: 592.9/37$

All: 1.643 ± 0.290 $\chi^2/\text{NDF}: 1605.5/72$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269 $\pm$ 0.563 χ^2/NDF : 356820.1/16

Left Out: 1764.906 $\pm$ 0.335 χ^2/NDF : 667791.6/18

Right Out: 2017.026 $\pm$ 0.541 χ^2/NDF : 375630.3/18

Left In: 1811.539 $\pm$ 0.347 χ^2/NDF : 477366.3/17

Left: 1787.436 $\pm$ 0.241 χ^2/NDF : 1154499.1/36

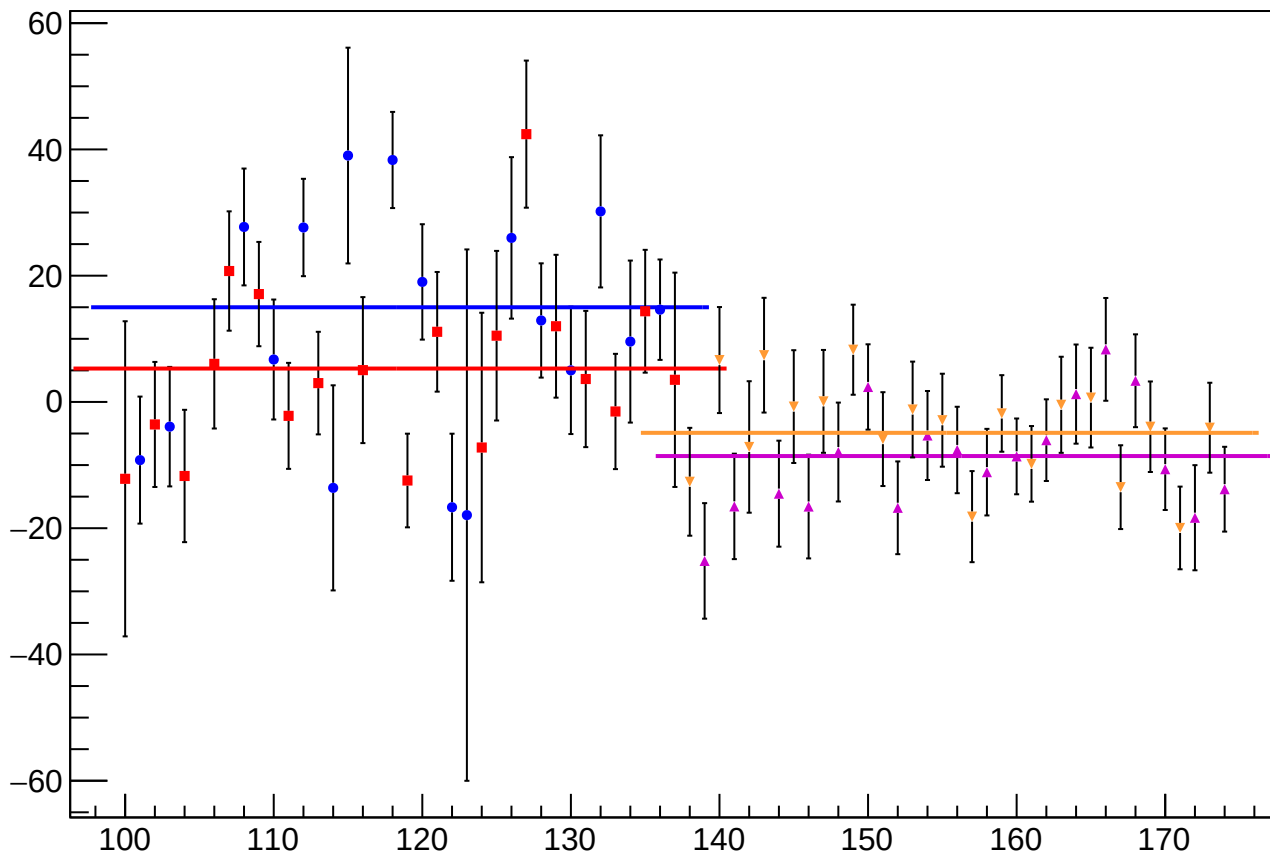
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

In: 1874.951 $\pm$ 0.295 χ^2/NDF : 955785.0/34

Out: 1834.940 $\pm$ 0.285 χ^2/NDF : 1200407.7/37

All: 1854.231 $\pm$ 0.205 χ^2/NDF : 2165694.1/72

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 $\pm$ 2.485 χ^2/NDF : 41.3/16

Left Out: -4.892 $\pm$ 1.707 χ^2/NDF : 21.1/18

Right Out: 5.291 $\pm$ 2.357 χ^2/NDF : 28.1/18

Left In: -8.570 $\pm$ 1.723 χ^2/NDF : 20.6/17

Left: -6.714 $\pm$ 1.213 χ^2/NDF : 44.0/36

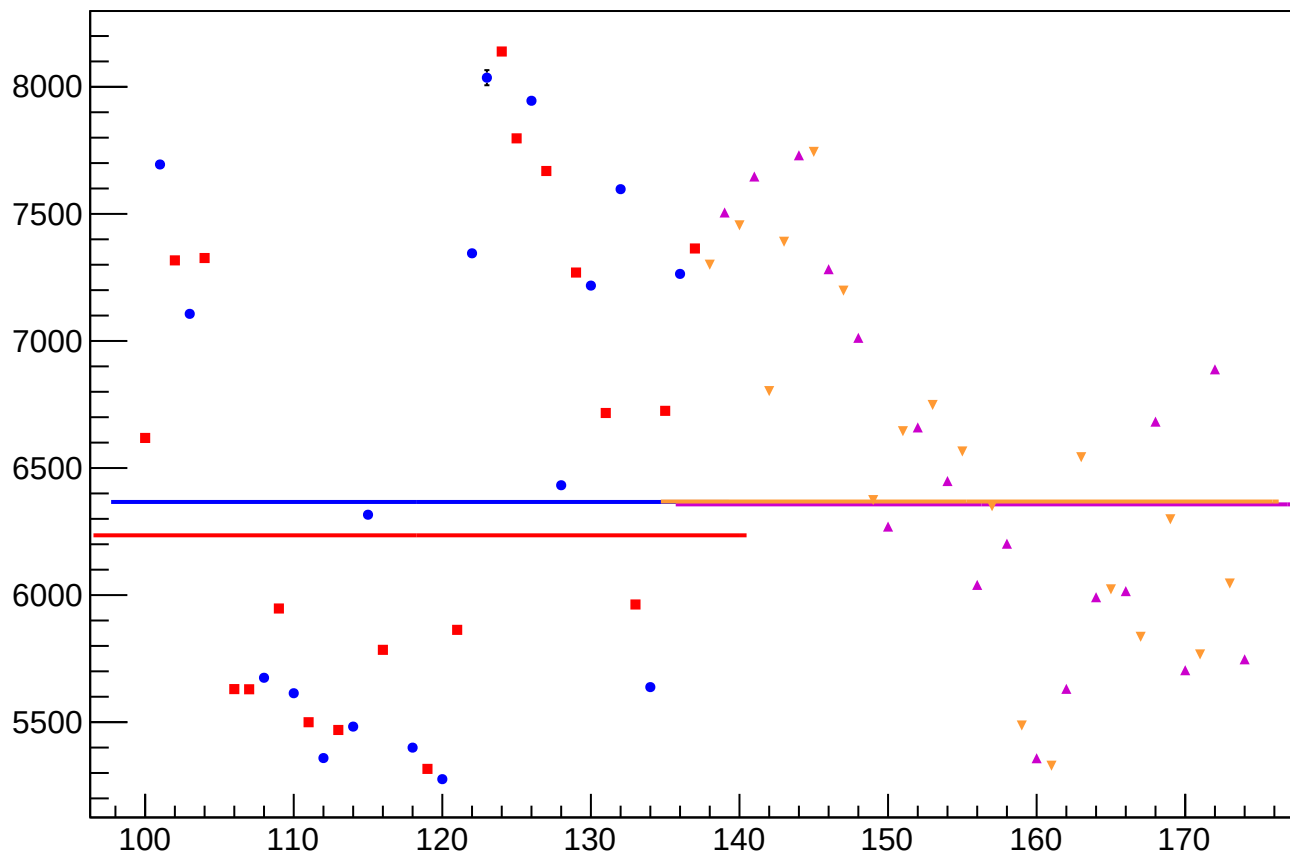
Right: 9.888 $\pm$ 1.710 χ^2/NDF : 77.4/35

In: -0.918 $\pm$ 1.416 χ^2/NDF : 122.7/34

Out: -1.389 $\pm$ 1.383 χ^2/NDF : 61.4/37

All: -1.159 $\pm$ 0.989 χ^2/NDF : 184.1/72

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 $\pm$ 1.757 χ^2 /NDF: 286494.5/16

Left Out: 6368.213 $\pm$ 1.207 χ^2 /NDF: 304940.0/18

Right Out: 6235.179 $\pm$ 1.667 χ^2 /NDF: 243204.0/18

Left In: 6356.978 $\pm$ 1.219 χ^2 /NDF: 318894.0/17

Left: 6362.649 $\pm$ 0.858 χ^2 /NDF: 623876.8/36

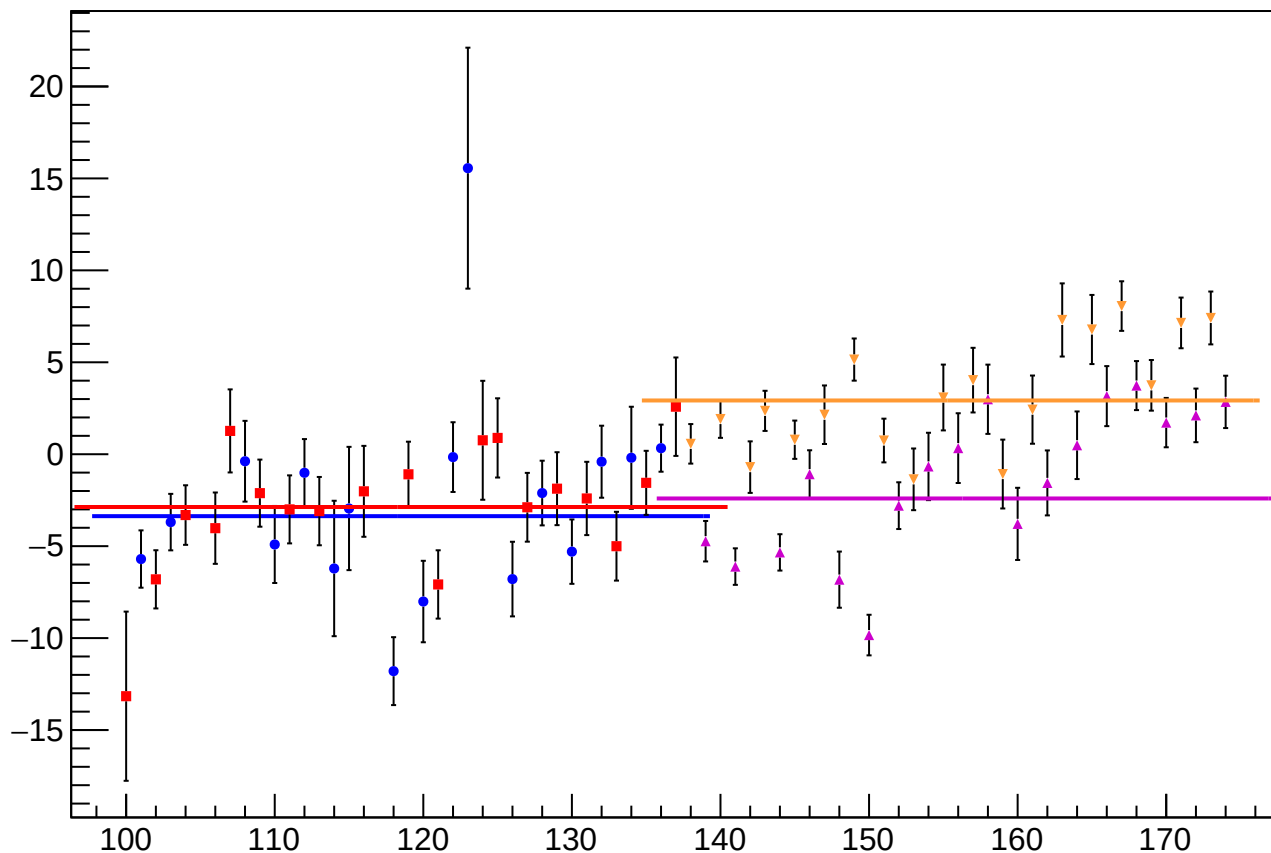
Right: 6297.369 $\pm$ 1.209 χ^2 /NDF: 532637.5/35

In: 6360.067 $\pm$ 1.001 χ^2 /NDF: 605408.3/34

Out: 6322.448 $\pm$ 0.978 χ^2 /NDF: 552322.2/37

All: 6340.807 $\pm$ 0.700 χ^2 /NDF: 1158453.0/72

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 ± 0.476 χ^2/NDF : 59.9/16

Left Out: 2.923 ± 0.314 χ^2/NDF : 78.9/18

Right Out: -2.871 ± 0.456 χ^2/NDF : 32.0/18

Left In: -2.407 ± 0.324 χ^2/NDF : 161.8/17

Left: 0.344 ± 0.226 χ^2/NDF : 380.2/36

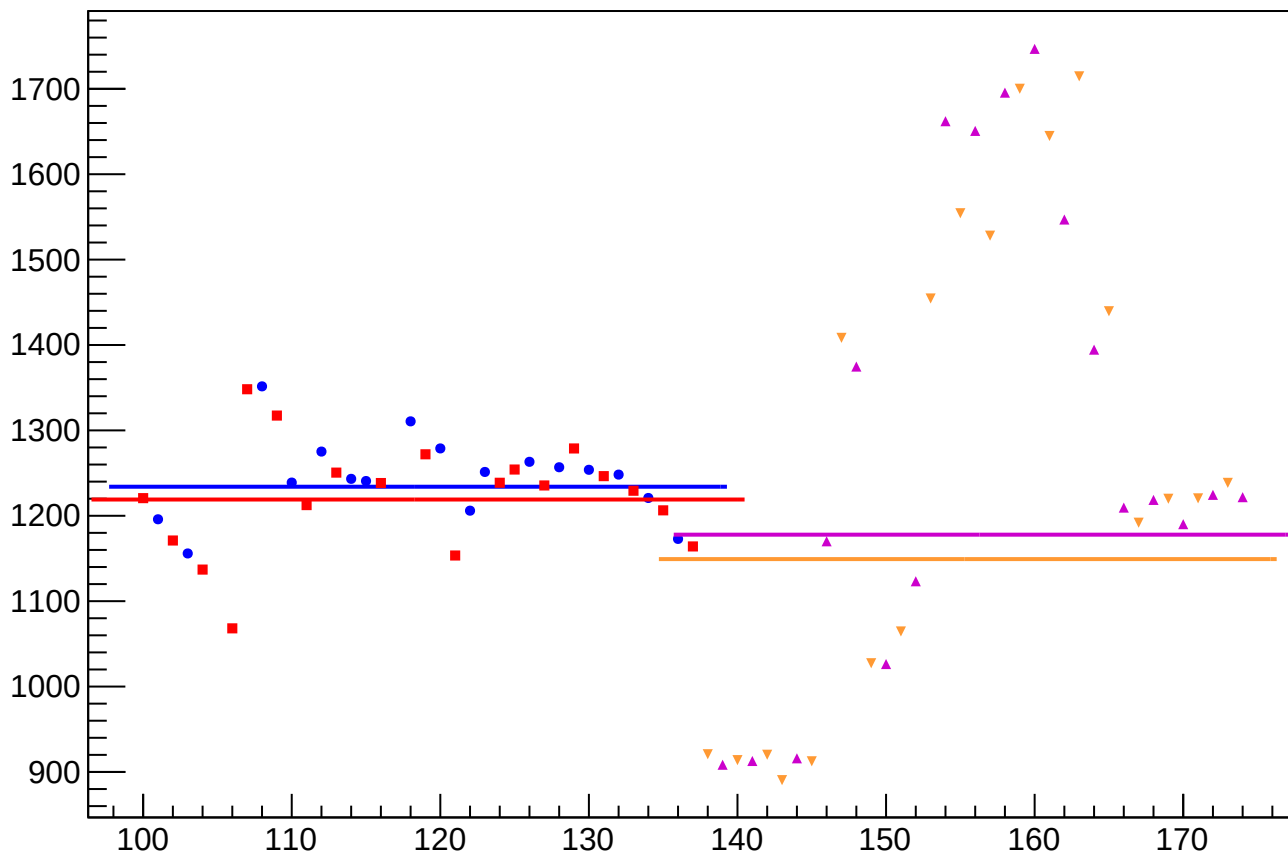
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.712 ± 0.268 χ^2/NDF : 224.5/34

Out: 1.062 ± 0.259 χ^2/NDF : 220.3/37

All: -0.759 ± 0.186 χ^2/NDF : 547.5/72

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 ± 0.336 $\chi^2/\text{NDF}: 23565.3/16$

Left Out: 1149.272 ± 0.222 $\chi^2/\text{NDF}: 1358142.2/18$

Right Out: 1219.041 ± 0.323 $\chi^2/\text{NDF}: 40370.4/18$

Left In: 1177.878 ± 0.229 $\chi^2/\text{NDF}: 1182050.0/17$

Left: 1163.114 ± 0.160 $\chi^2/\text{NDF}: 2548225.4/36$

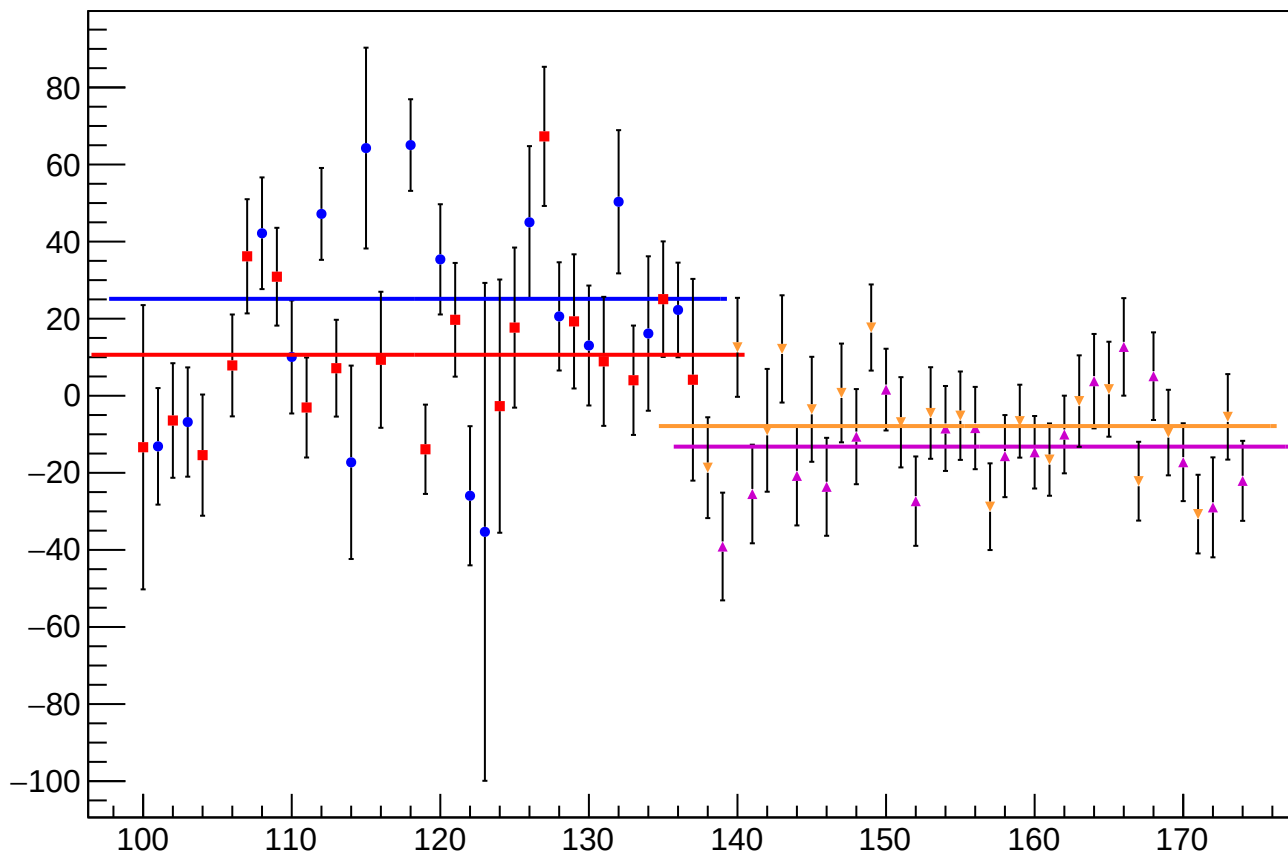
Right: 1226.229 ± 0.233 $\chi^2/\text{NDF}: 64970.2/35$

In: 1195.701 ± 0.189 $\chi^2/\text{NDF}: 1224652.9/34$

Out: 1171.685 ± 0.183 $\chi^2/\text{NDF}: 1430235.9/37$

All: 1183.273 ± 0.132 $\chi^2/\text{NDF}: 2663206.4/72$

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149 ± 3.837 $\chi^2/\text{NDF}: 46.9/16$

Left Out: -7.865 ± 2.654 $\chi^2/\text{NDF}: 23.5/18$

Right Out: 10.634 ± 3.595 $\chi^2/\text{NDF}: 27.7/18$

Left In: -13.203 ± 2.682 $\chi^2/\text{NDF}: 20.5/17$

Left: -10.505 ± 1.886 $\chi^2/\text{NDF}: 46.0/36$

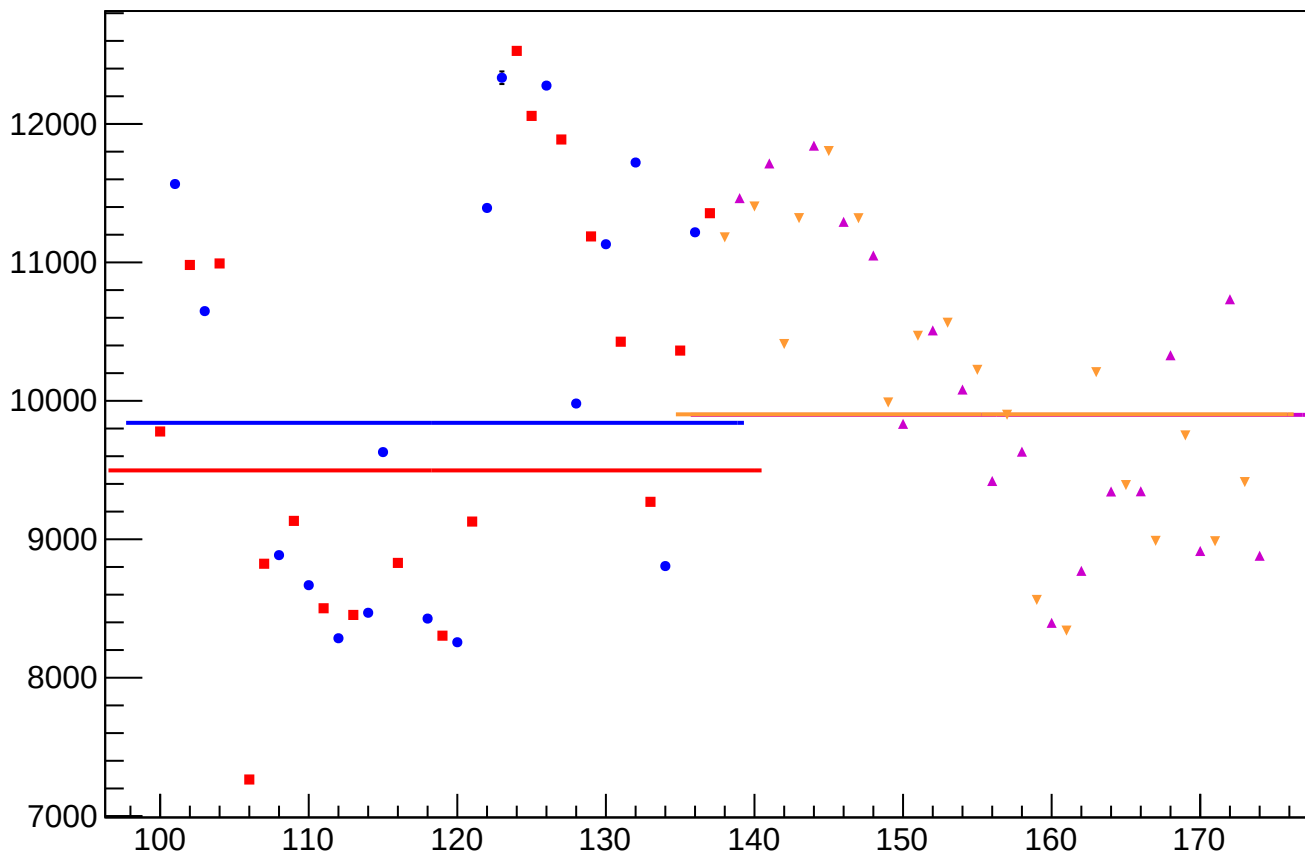
Right: 17.418 ± 2.623 $\chi^2/\text{NDF}: 82.3/35$

In: -0.615 ± 2.198 $\chi^2/\text{NDF}: 134.5/34$

Out: -1.339 ± 2.135 $\chi^2/\text{NDF}: 68.3/37$

All: -0.988 ± 1.532 $\chi^2/\text{NDF}: 202.9/72$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9841.174 $\pm$ 2.713 χ^2 /NDF: 260062.4/16

Left Out: 9902.549 $\pm$ 1.876 χ^2 /NDF: 281999.0/18

Right Out: 9497.483 $\pm$ 2.542 χ^2 /NDF: 276700.1/18

Left In: 9898.822 $\pm$ 1.897 χ^2 /NDF: 297214.9/17

Left: 9900.706 $\pm$ 1.334 χ^2 /NDF: 579215.8/36

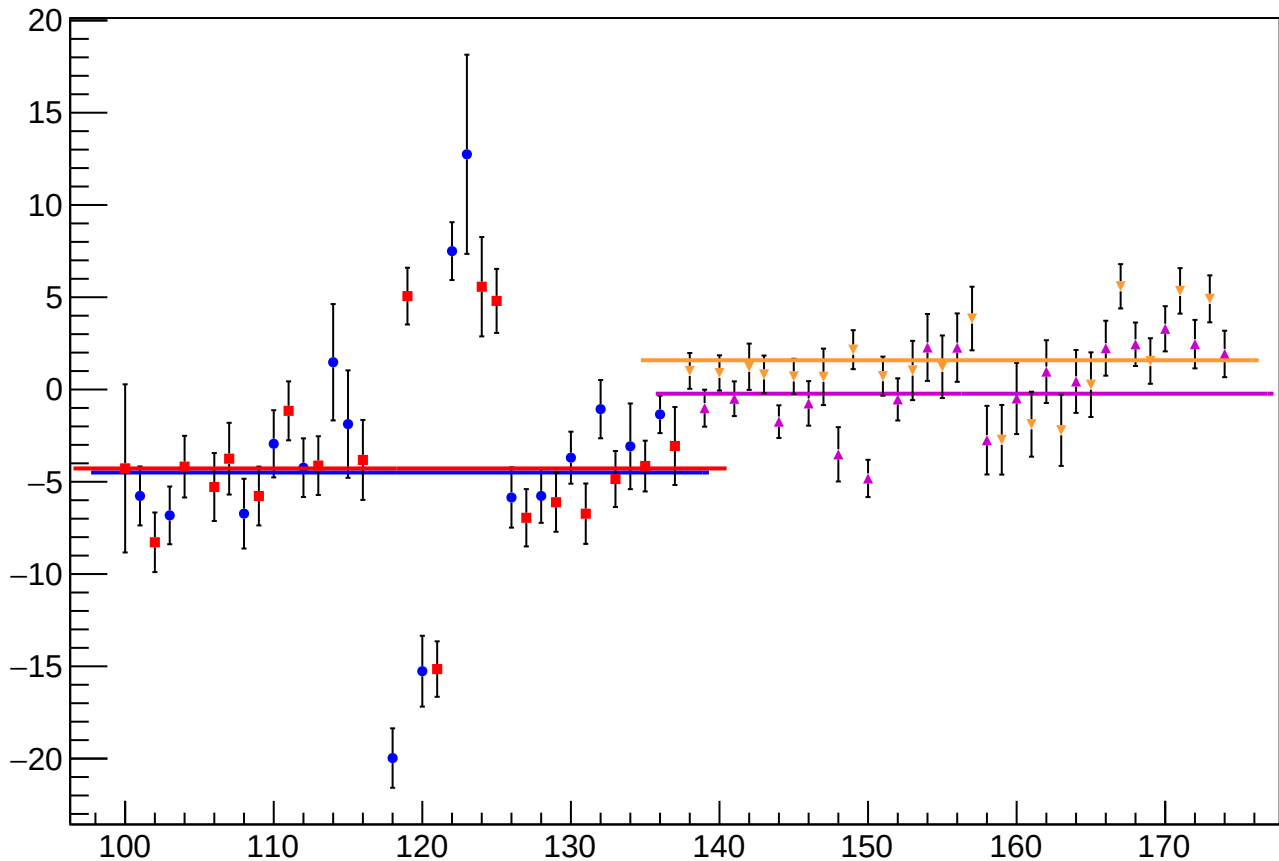
Right: 9658.117 $\pm$ 1.855 χ^2 /NDF: 545307.6/35

In: 9879.901 $\pm$ 1.555 χ^2 /NDF: 557580.5/34

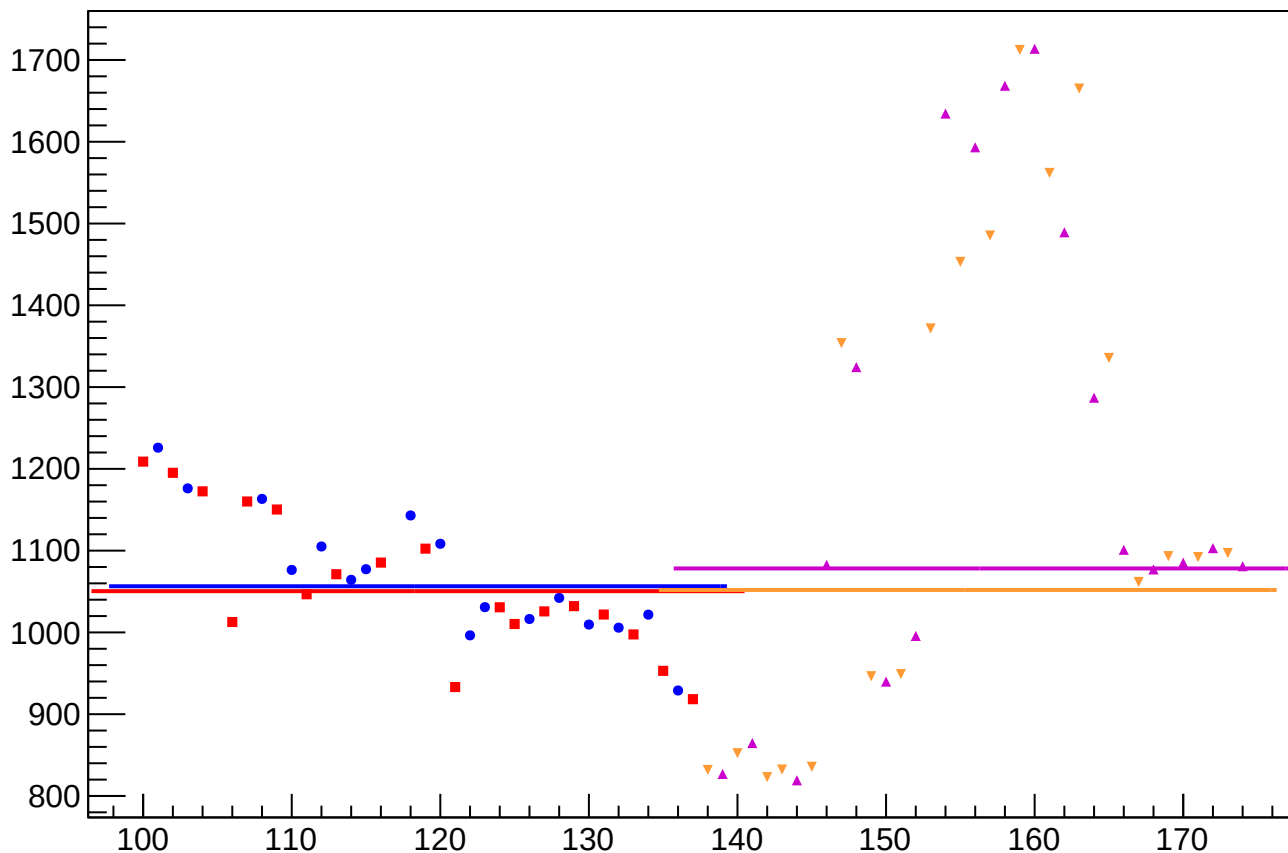
Out: 9759.663 $\pm$ 1.510 χ^2 /NDF: 575136.7/37

All: 9818.021 $\pm$ 1.083 χ^2 /NDF: 1135796.0/72

diff_bpm0l07Y_mean vs Slug, Sign Corrected



diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.436 ± 0.289 $\chi^2/\text{NDF}: 90773.0/16$

Left Out: 1051.913 ± 0.204 $\chi^2/\text{NDF}: 1560563.9/18$

Right Out: 1050.443 ± 0.279 $\chi^2/\text{NDF}: 82396.5/18$

Left In: 1078.205 ± 0.211 $\chi^2/\text{NDF}: 1413135.5/17$

Left: 1064.619 ± 0.147 $\chi^2/\text{NDF}: 2981694.0/36$

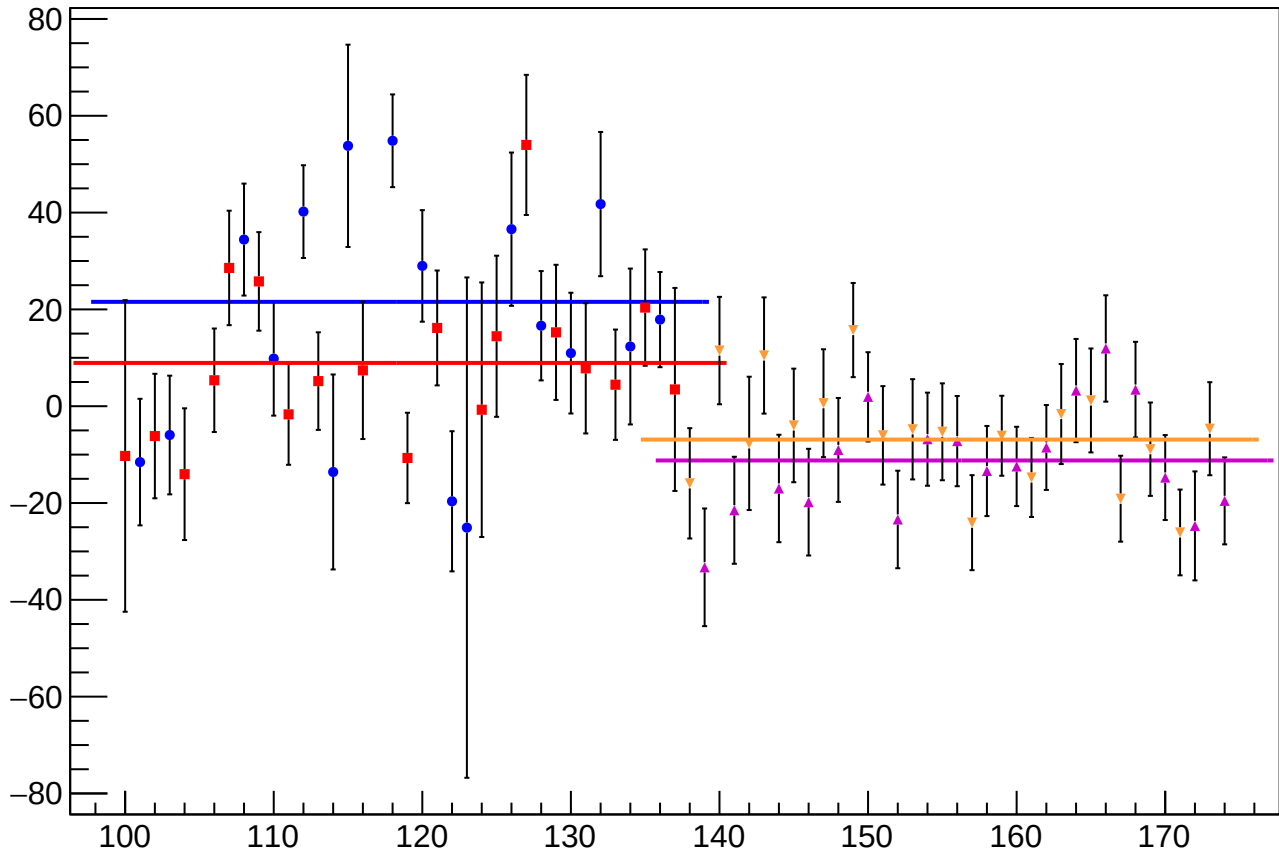
Right: 1053.333 ± 0.200 $\chi^2/\text{NDF}: 173392.8/35$

In: 1070.605 ± 0.171 $\chi^2/\text{NDF}: 1507611.5/34$

Out: 1051.398 ± 0.165 $\chi^2/\text{NDF}: 1642978.6/37$

All: 1060.673 ± 0.119 $\chi^2/\text{NDF}: 3157149.1/72$

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561 $\pm$ 3.110 χ^2/NDF : 48.4/16

Left Out: -6.892 $\pm$ 2.307 χ^2/NDF : 23.0/18

Right Out: 8.943 $\pm$ 2.912 χ^2/NDF : 27.4/18

Left In: -11.211 $\pm$ 2.332 χ^2/NDF : 20.1/17

Left: -9.028 $\pm$ 1.640 χ^2/NDF : 44.8/36

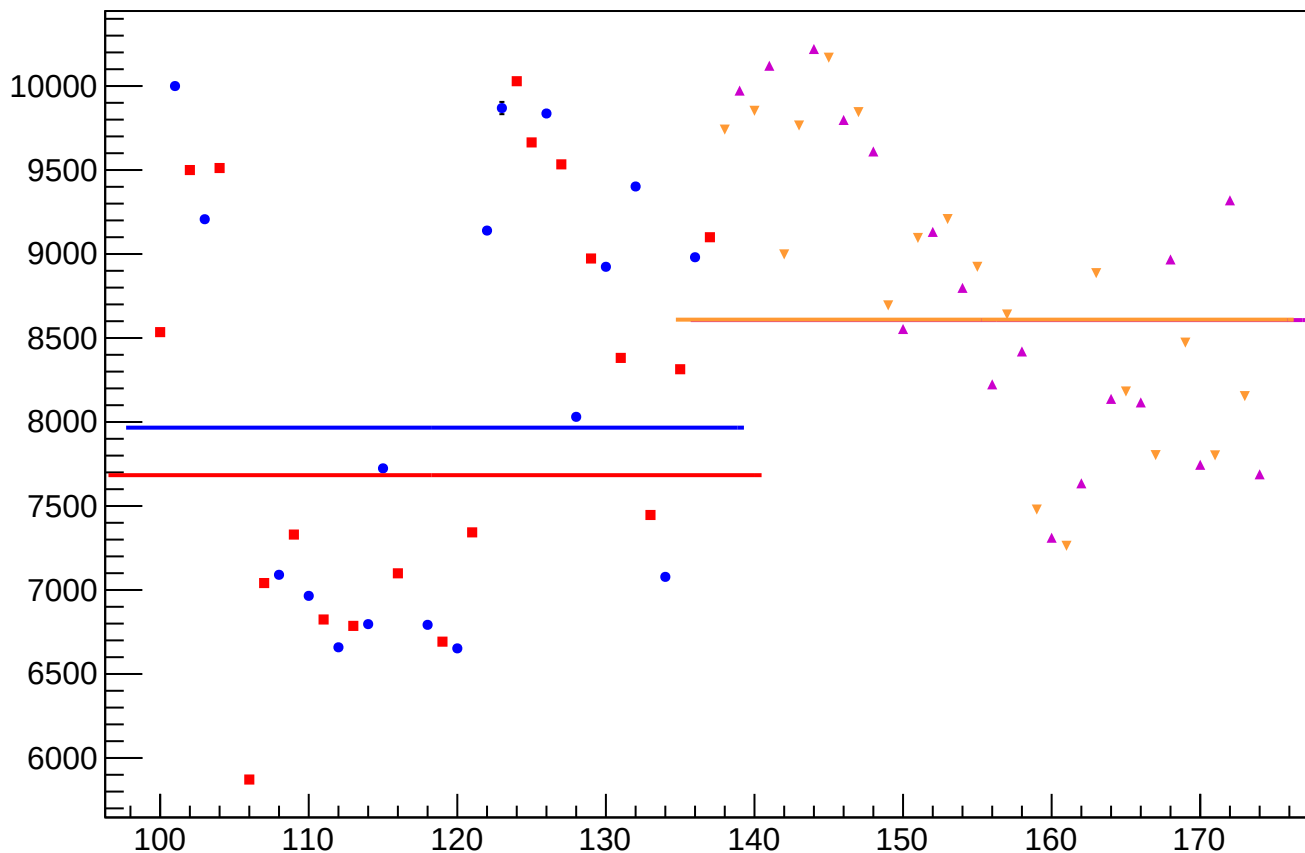
Right: 14.837 $\pm$ 2.126 χ^2/NDF : 84.6/35

In: 0.579 $\pm$ 1.866 χ^2/NDF : 139.5/34

Out: -0.787 $\pm$ 1.808 χ^2/NDF : 68.6/37

All: -0.125 $\pm$ 1.298 χ^2/NDF : 208.4/72

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 ± 2.199 χ^2/NDF : 296611.1/16

Left Out: 8609.255 ± 1.631 χ^2/NDF : 272638.4/18

Right Out: 7683.479 ± 2.059 χ^2/NDF : 315033.7/18

Left In: 8606.616 ± 1.649 χ^2/NDF : 289666.1/17

Left: 8607.950 ± 1.160 χ^2/NDF : 562305.8/36

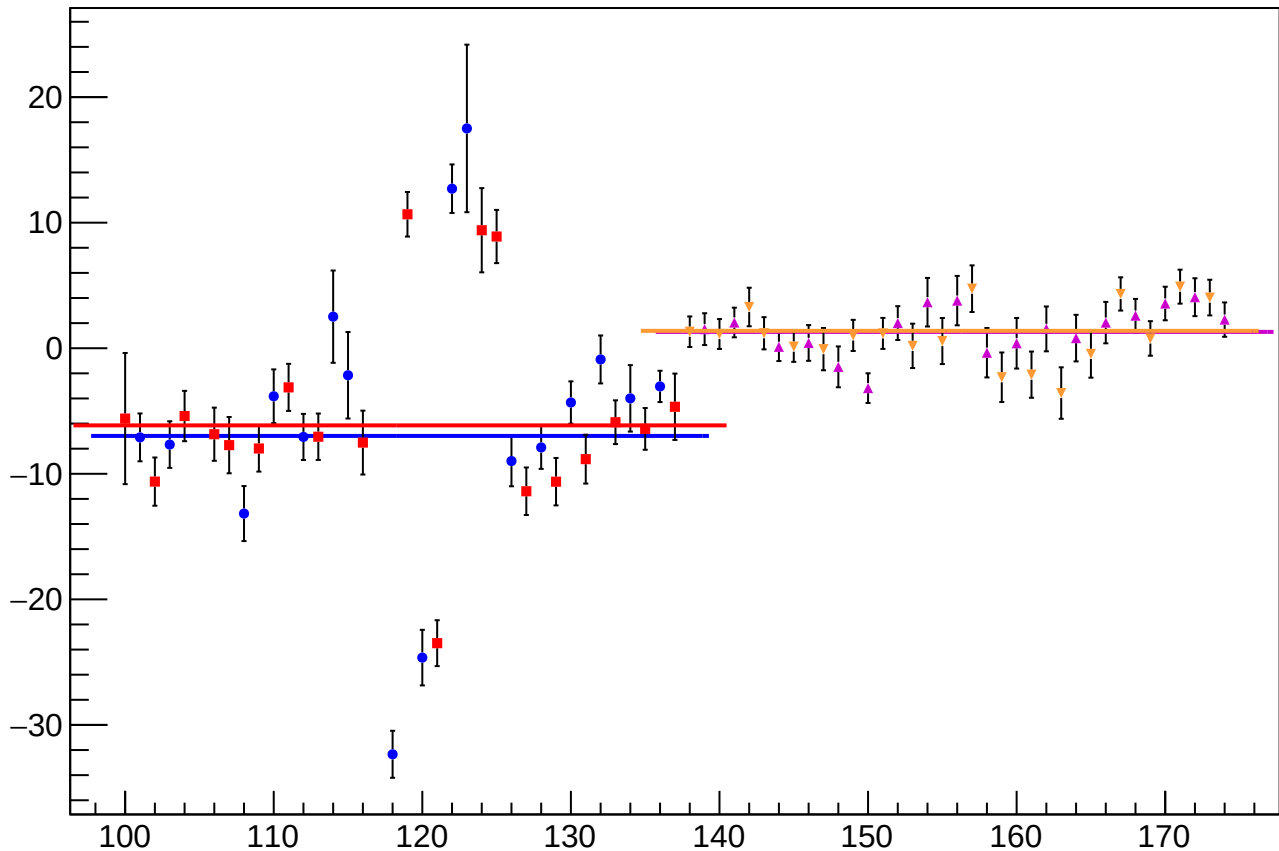
Right: 7815.627 ± 1.503 χ^2/NDF : 620463.8/35

In: 8376.289 ± 1.319 χ^2/NDF : 640526.5/34

Out: 8252.306 ± 1.279 χ^2/NDF : 711886.9/37

All: 8312.357 ± 0.918 χ^2/NDF : 1356968.1/72

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 ± 0.486 χ^2/NDF : 408.5/16

Left Out: 1.385 ± 0.336 χ^2/NDF : 36.7/18

Right Out: -6.145 ± 0.467 χ^2/NDF : 277.5/18

Left In: 1.301 ± 0.346 χ^2/NDF : 31.4/17

Left: 1.344 ± 0.241 χ^2/NDF : 68.2/36

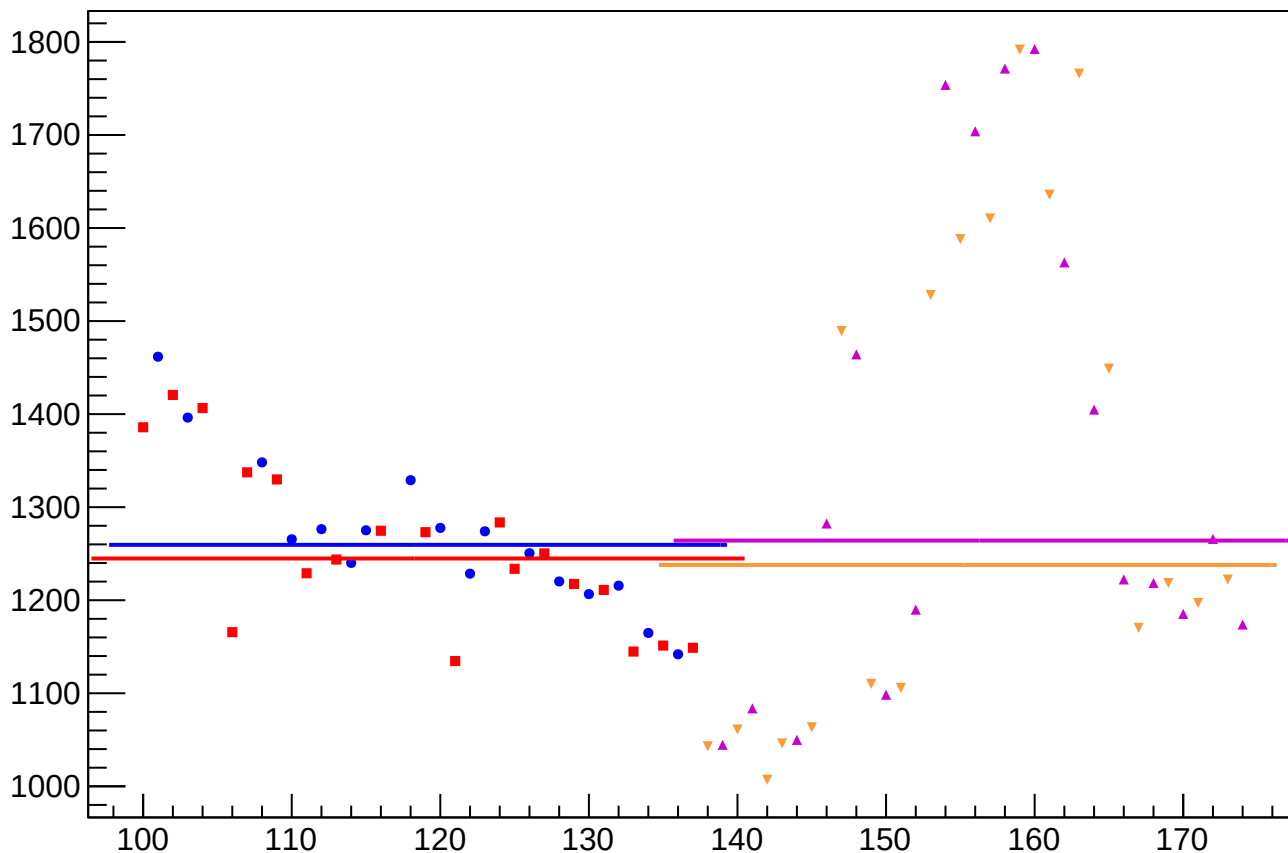
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.484 ± 0.282 χ^2/NDF : 632.7/34

Out: -1.183 ± 0.273 χ^2/NDF : 485.8/37

All: -1.328 ± 0.196 χ^2/NDF : 1119.1/72

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.531 $\pm$ 0.344 χ^2/NDF : 64844.4/16

Left Out: 1237.842 $\pm$ 0.237 χ^2/NDF : 939302.1/18

Right Out: 1244.837 $\pm$ 0.330 χ^2/NDF : 66826.0/18

Left In: 1264.105 $\pm$ 0.245 χ^2/NDF : 839439.2/17

Left: 1250.580 $\pm$ 0.170 χ^2/NDF : 1784677.9/36

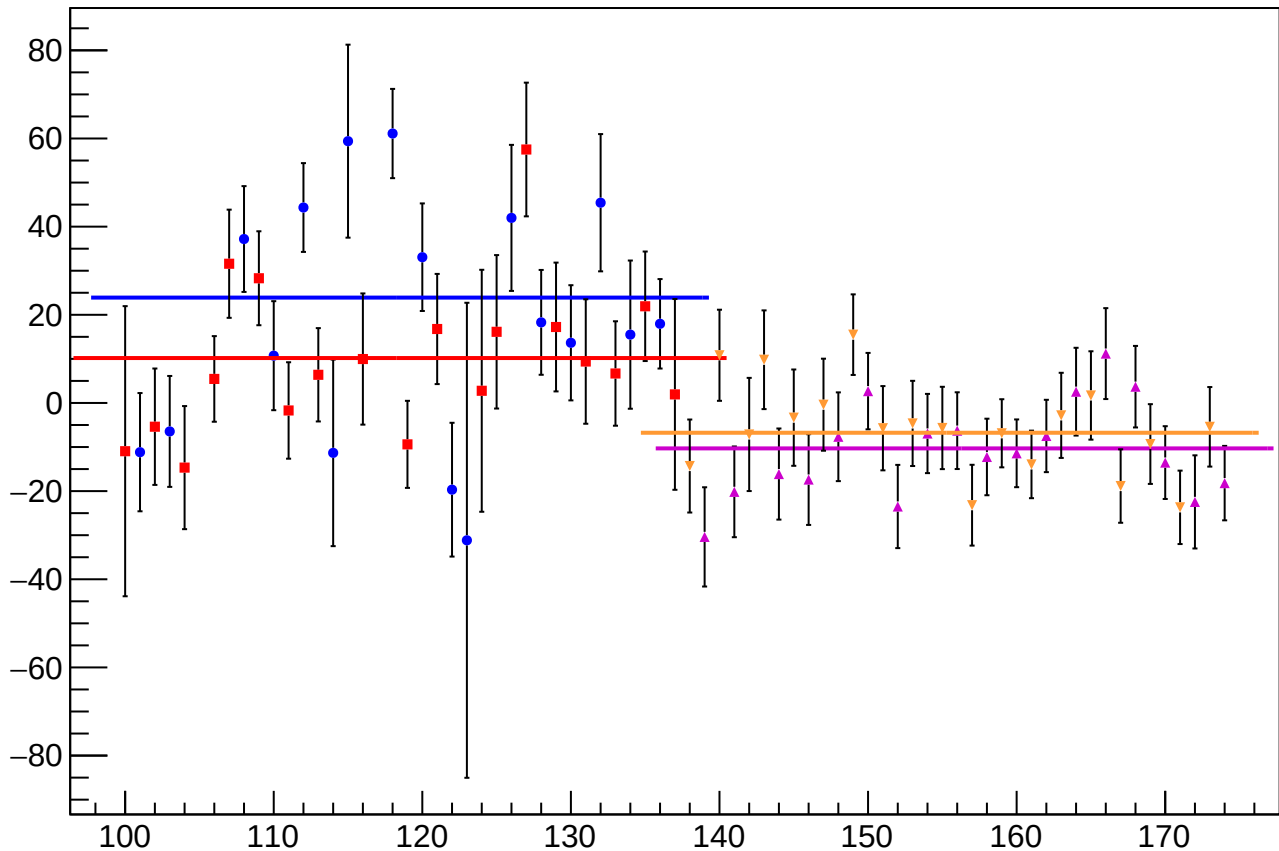
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1262.568 $\pm$ 0.199 χ^2/NDF : 904401.2/34

Out: 1240.228 $\pm$ 0.193 χ^2/NDF : 1006424.2/37

All: 1251.021 $\pm$ 0.139 χ^2/NDF : 1917319.0/72

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.904 $\pm$ 3.251 χ^2 /NDF: 52.4/16

Left Out: -6.759 $\pm$ 2.158 χ^2 /NDF:23.4/18

Right Out: 10.190 $\pm$ 3.006 χ^2 /NDF: 27.9/18

Left In: -10.310 $\pm$ 2.182 χ^2 /NDF:20.3/17

Left: -8.515 $\pm$ 1.535 χ^2 /NDF: 45.1/36

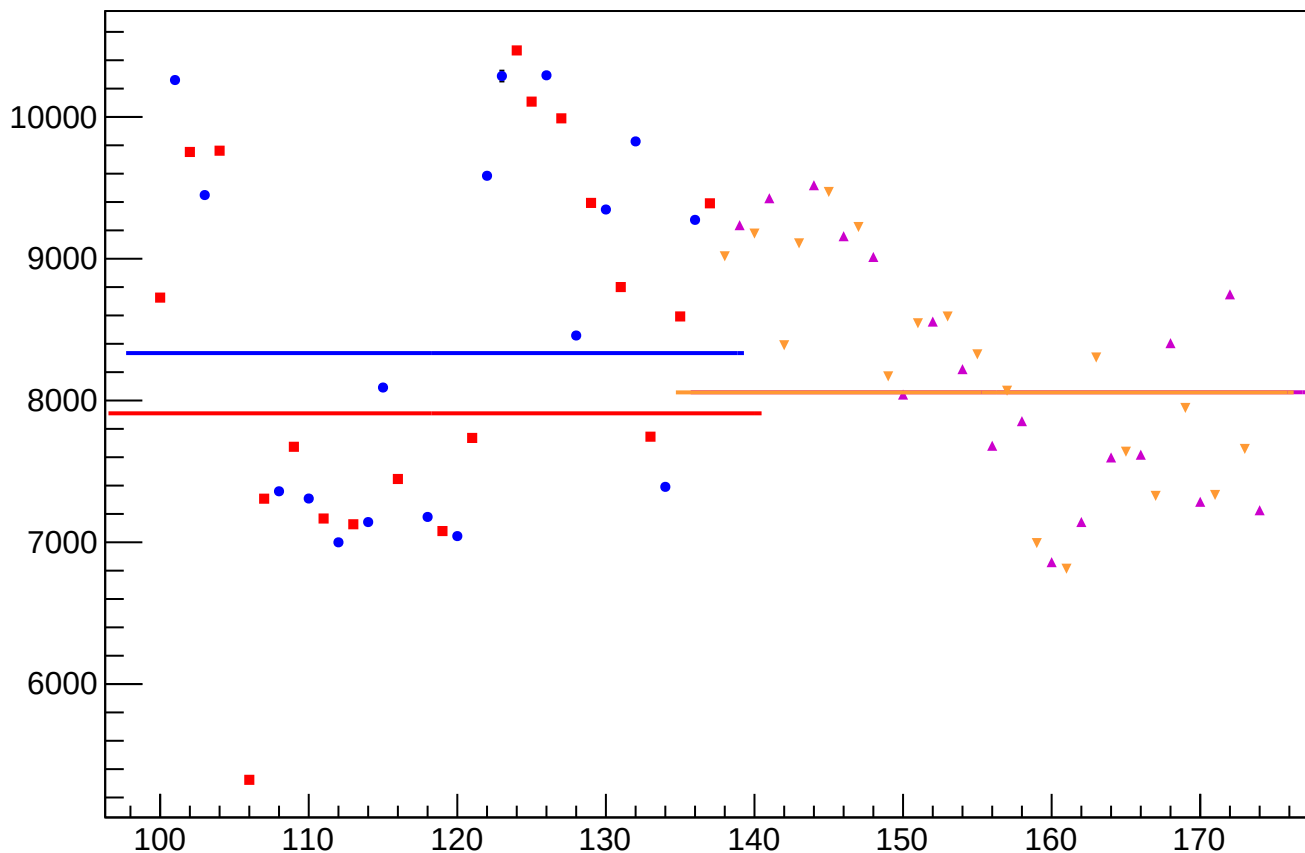
Right: 16.511 $\pm$ 2.207 χ^2 /NDF: 90.0/35

In: 0.320 $\pm$ 1.812 χ^2 /NDF:149.2/34

Out: -0.993 $\pm$ 1.753 χ^2 /NDF:72.3/37

All: -0.358 $\pm$ 1.260 χ^2 /NDF: 221.7/72

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.507 $\pm$ 2.299 χ^2 /NDF: 272302.6/16

Left Out: 8057.323 $\pm$ 1.526 χ^2 /NDF: 260709.5/18

Right Out: 7909.620 $\pm$ 2.125 χ^2 /NDF: 390819.3/18

Left In: 8058.179 $\pm$ 1.543 χ^2 /NDF: 278833.2/17

Left: 8057.746 $\pm$ 1.085 χ^2 /NDF: 539542.9/36

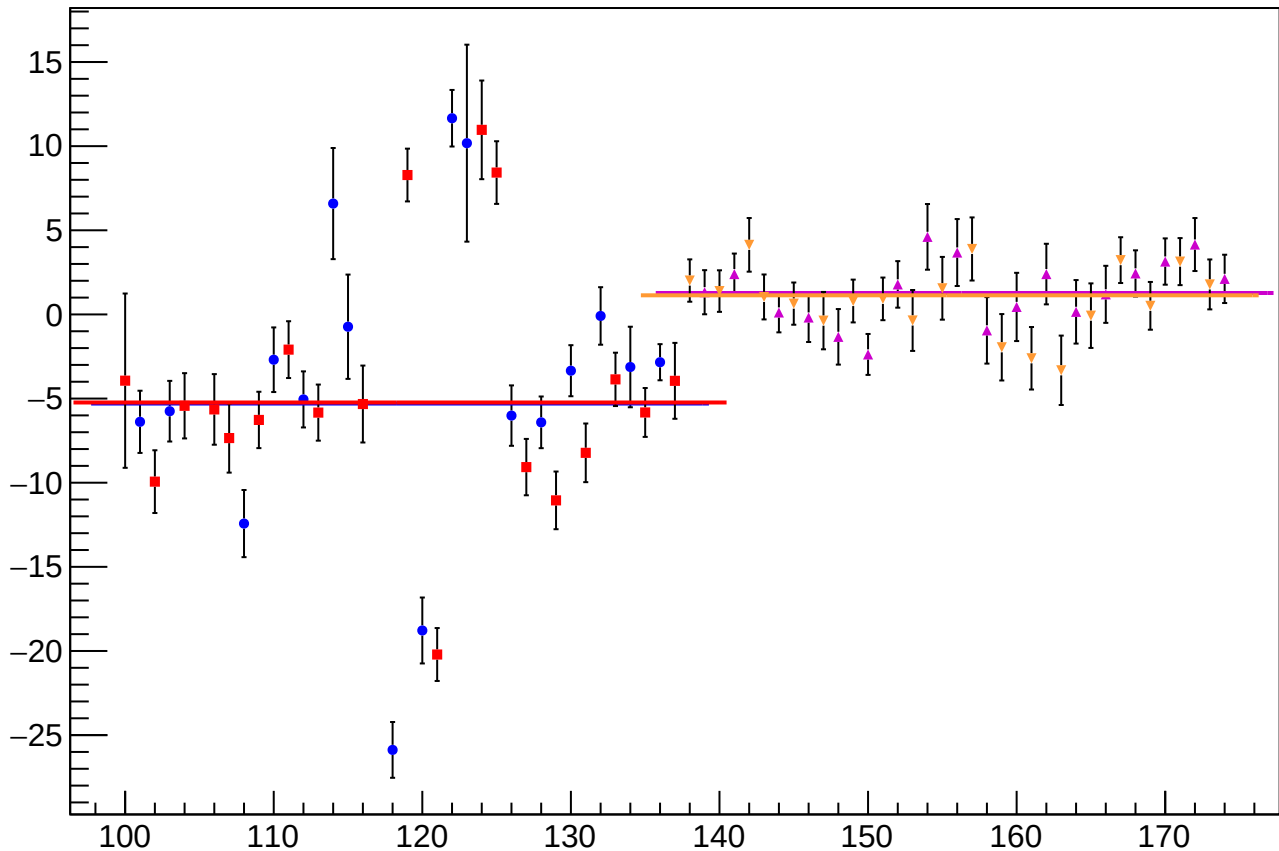
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8144.035 $\pm$ 1.281 χ^2 /NDF: 561098.2/34

Out: 8007.074 $\pm$ 1.240 χ^2 /NDF: 654715.6/37

All: 8073.295 $\pm$ 0.891 χ^2 /NDF: 1221716.2/72

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.295 ± 0.437 χ^2/NDF : 358.1/16

Left Out: 1.136 ± 0.345 χ^2/NDF : 24.4/18

Right Out: -5.233 ± 0.422 χ^2/NDF : 281.9/18

Left In: 1.274 ± 0.356 χ^2/NDF : 27.3/17

Left: 1.203 ± 0.248 χ^2/NDF : 51.7/36

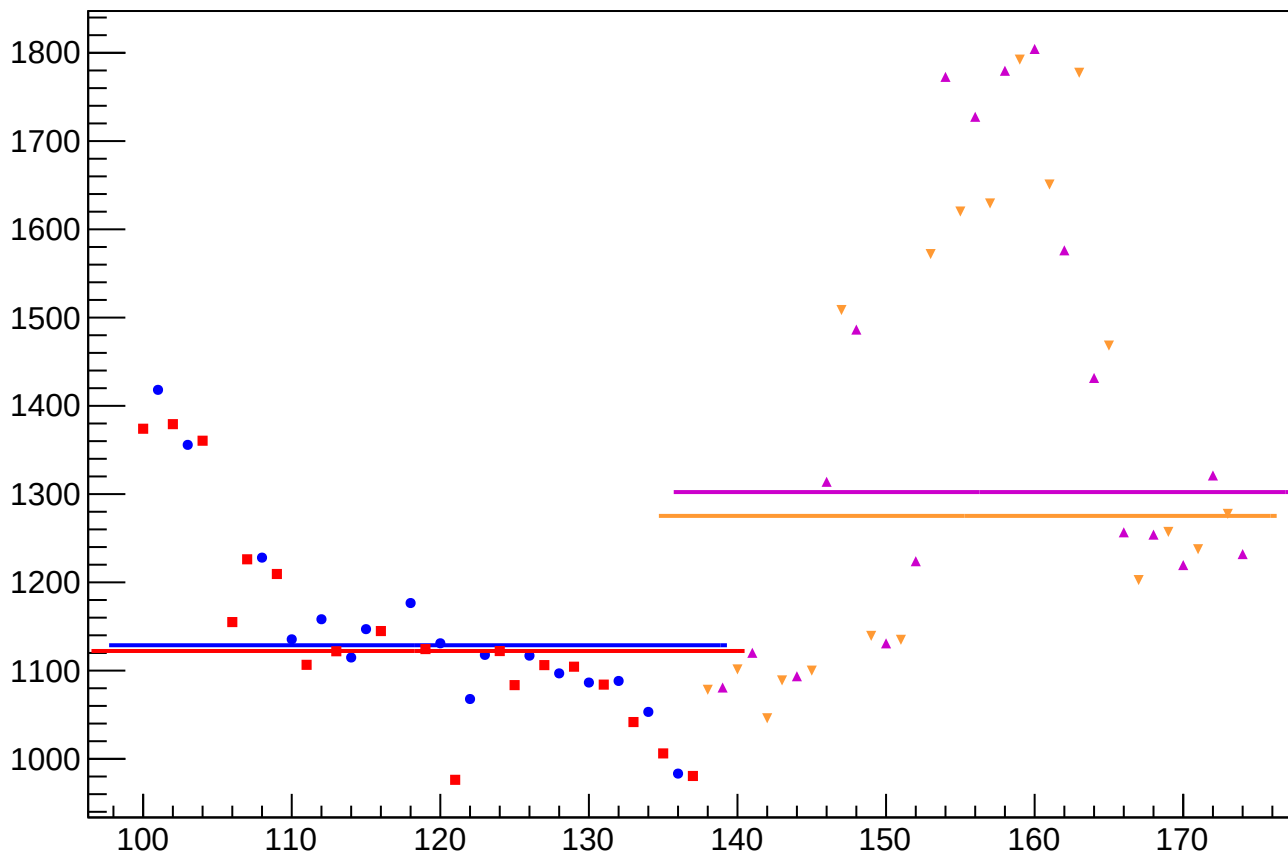
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.344 ± 0.276 χ^2/NDF : 521.4/34

Out: -1.419 ± 0.267 χ^2/NDF : 442.9/37

All: -1.382 ± 0.192 χ^2/NDF : 964.4/72

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 $\pm$ 0.309 χ^2/NDF : 133096.9/16

Left Out: 1275.300 $\pm$ 0.244 χ^2/NDF : 851895.1/18

Right Out: 1122.238 $\pm$ 0.298 χ^2/NDF : 129601.6/18

Left In: 1302.295 $\pm$ 0.251 χ^2/NDF : 754251.9/17

Left: 1288.393 $\pm$ 0.175 χ^2/NDF : 1612083.0/36

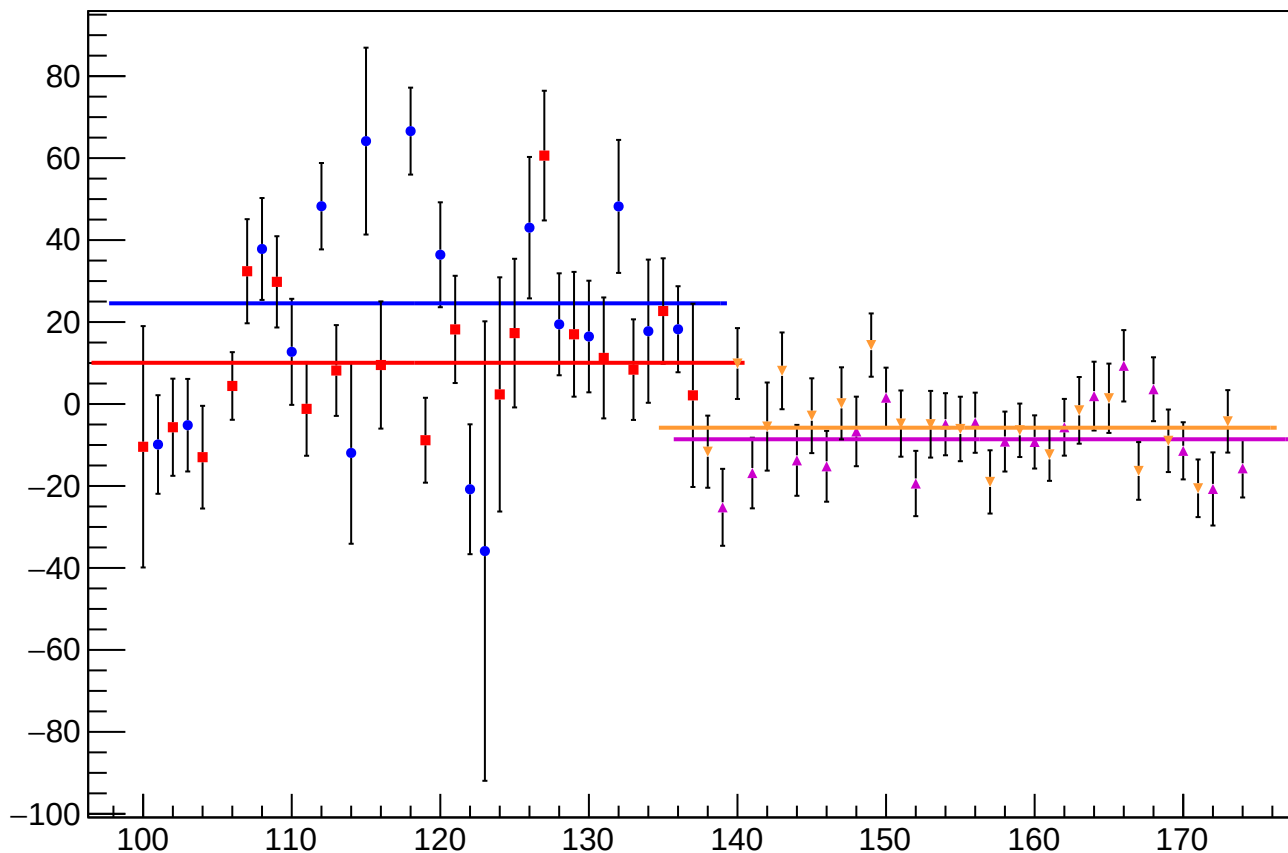
Right: 1125.374 $\pm$ 0.215 χ^2/NDF : 262927.9/35

In: 1233.127 $\pm$ 0.195 χ^2/NDF : 1077224.2/34

Out: 1213.902 $\pm$ 0.189 χ^2/NDF : 1139324.6/37

All: 1223.206 $\pm$ 0.136 χ^2/NDF : 2221565.2/72

diff_bpm0l10X_mean vs Slug, Sign Corrected



Left: -7.175 ± 1.292 χ^2/NDF : 47.1/36

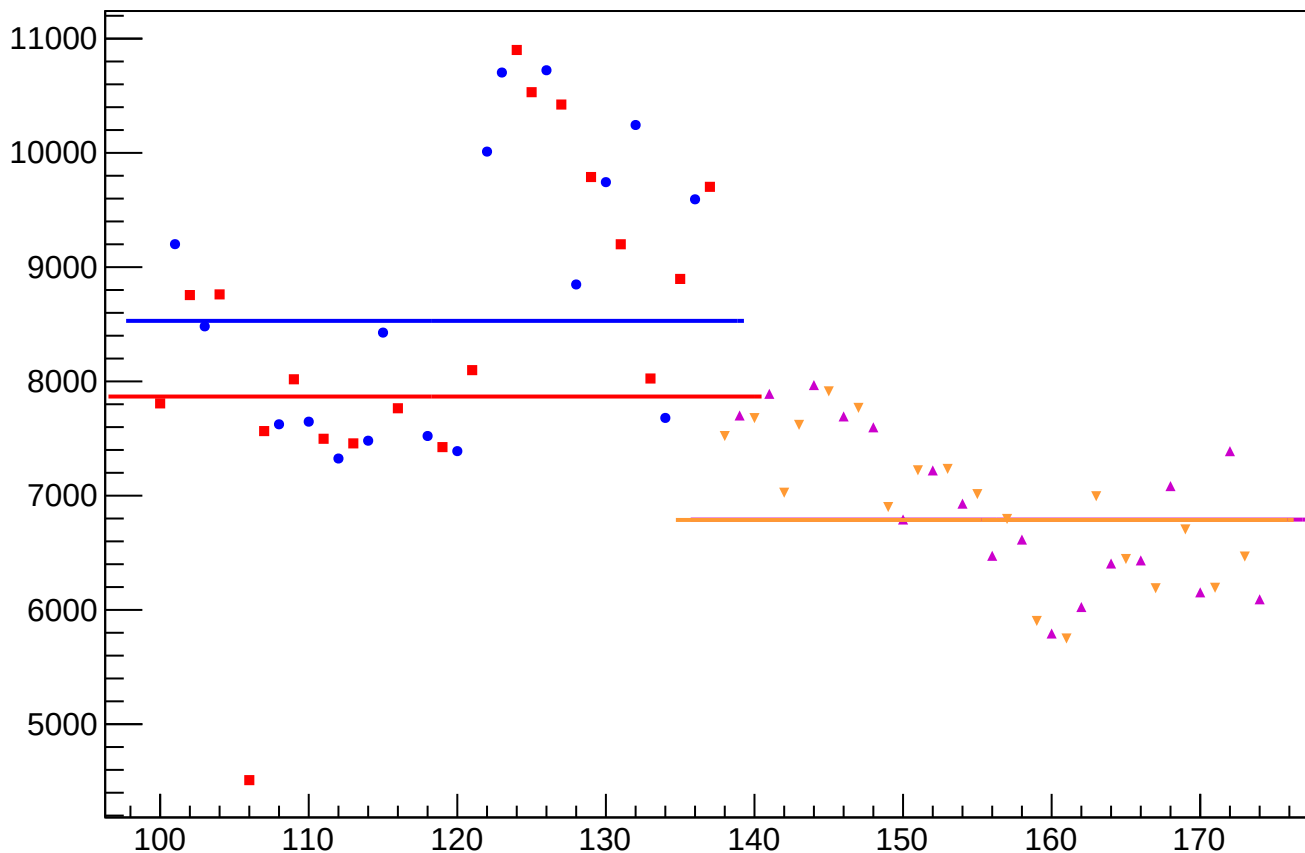
Right: 16.602 ± 2.229 χ^2/NDF : 97.4/35

In: -0.811 ± 1.608 χ^2/NDF : 155.3/34

Out: -1.544 ± 1.556 χ^2/NDF : 74.3/37

All: -1.190 ± 1.118 χ^2/NDF : 229.7/72

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821+/-2.346 χ^2/NDF : 208336.1/16

Left Out: 6787.460+/-1.285 χ^2/NDF : 246372.5/18

Right Out: 7867.584+/-2.127 χ^2/NDF : 555841.7/18

Left In: 6790.507+/-1.300 χ^2/NDF : 266786.1/17

Left: 6788.966+/-0.914 χ^2/NDF : 513161.4/36

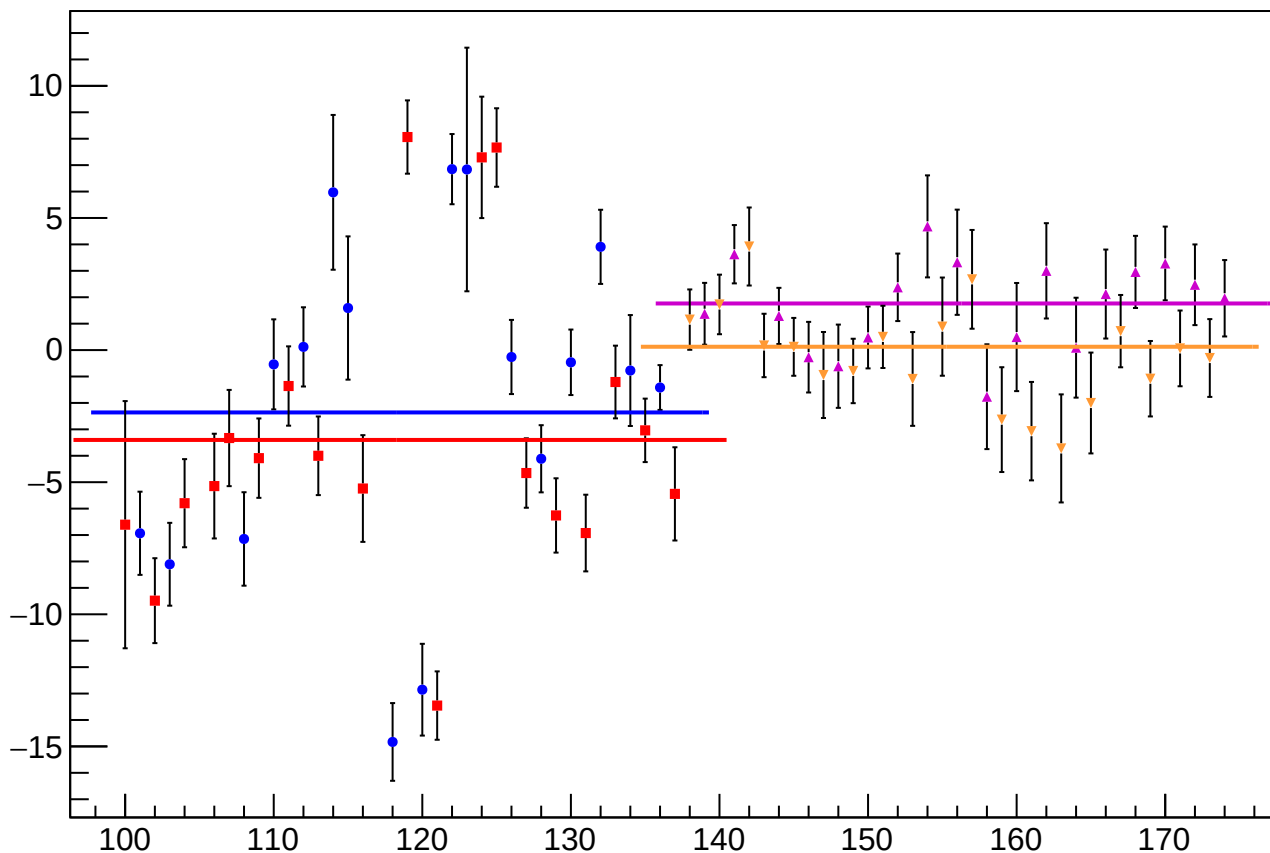
Right: 8166.253+/-1.576 χ^2/NDF : 807907.7/35

In: 7199.001+/-1.137 χ^2/NDF : 895537.0/34

Out: 7076.371+/-1.100 χ^2/NDF : 991162.8/37

All: 7135.646+/-0.791 χ^2/NDF : 1892708.1/72

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 ± 0.366 χ^2/NDF : 232.0/16

Left Out: 0.126 ± 0.329 χ^2/NDF : 23.7/18

Right Out: -3.401 ± 0.358 χ^2/NDF : 241.4/18

Left In: 1.764 ± 0.340 χ^2/NDF : 19.1/17

Left: 0.919 ± 0.236 χ^2/NDF : 54.8/36

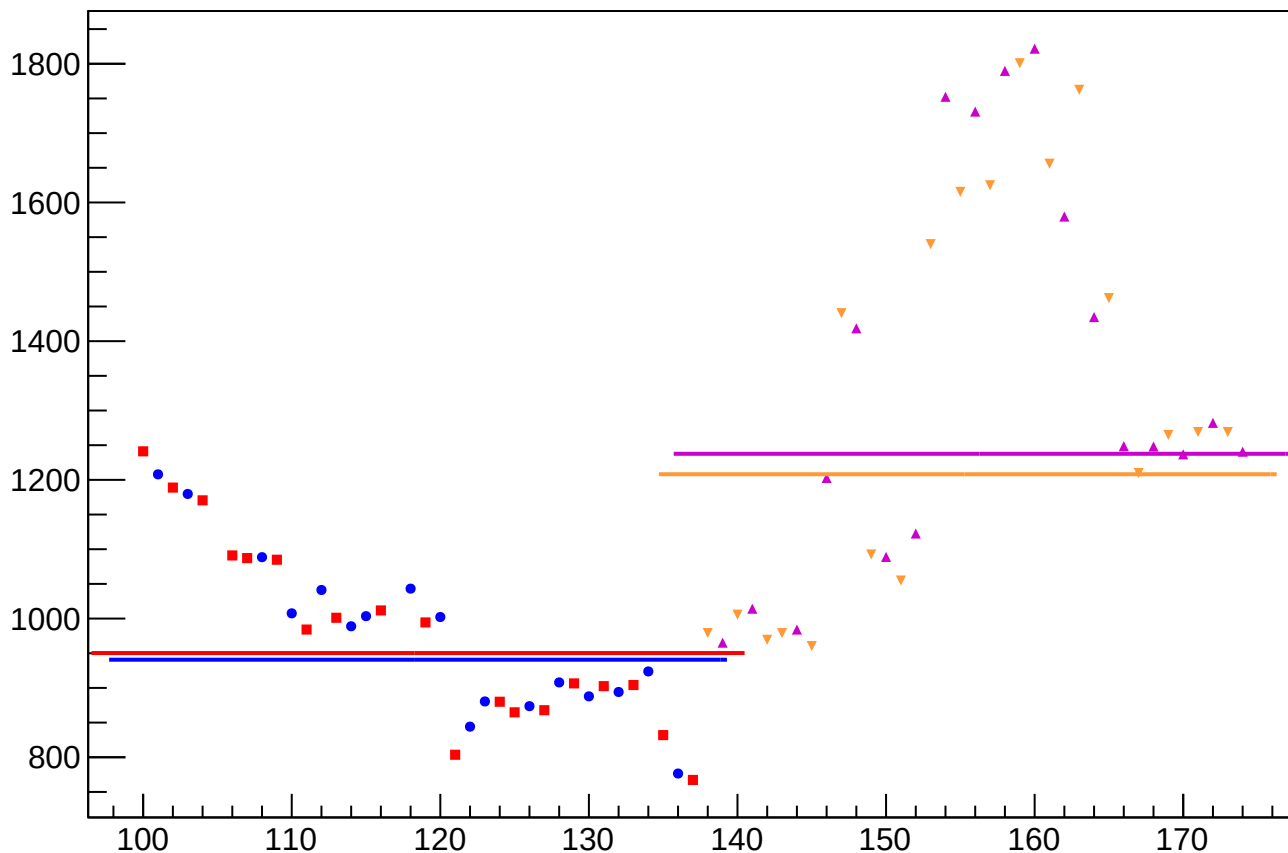
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.149 ± 0.249 χ^2/NDF : 319.4/34

Out: -1.488 ± 0.242 χ^2/NDF : 317.7/37

All: -0.836 ± 0.174 χ^2/NDF : 651.9/72

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683+/-0.258 χ^2/NDF : 241768.4/16

Left Out: 1208.117+/-0.233 χ^2/NDF : 1217133.2/18

Right Out: 950.316+/-0.253 χ^2/NDF : 220678.1/18

Left In: 1237.603+/-0.240 χ^2/NDF : 1058792.0/17

Left: 1222.381+/-0.167 χ^2/NDF : 2283692.3/36

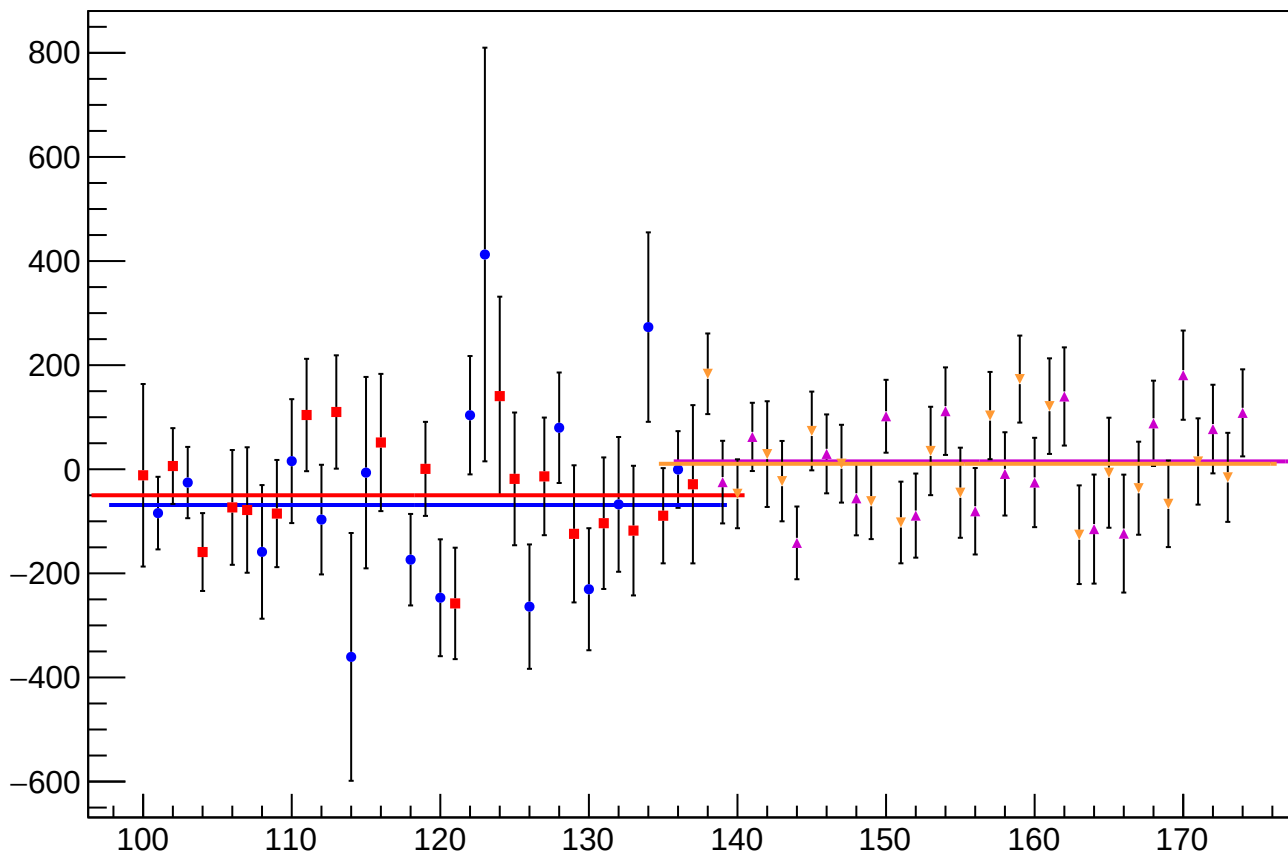
Right: 945.597+/-0.181 χ^2/NDF : 463155.1/35

In: 1099.898+/-0.176 χ^2/NDF : 2008119.0/34

Out: 1090.118+/-0.171 χ^2/NDF : 1999617.8/37

All: 1094.876+/-0.123 χ^2/NDF : 4009321.5/72

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 10.520 $\pm$ 18.920 χ^2/NDF : 20.0/18

Right Out: -49.958 $\pm$ 25.020 χ^2/NDF : 14.0/18

Left In: 15.117 $\pm$ 19.068 χ^2/NDF : 24.1/17

Left: 12.801 $\pm$ 13.431 χ^2/NDF : 44.1/36

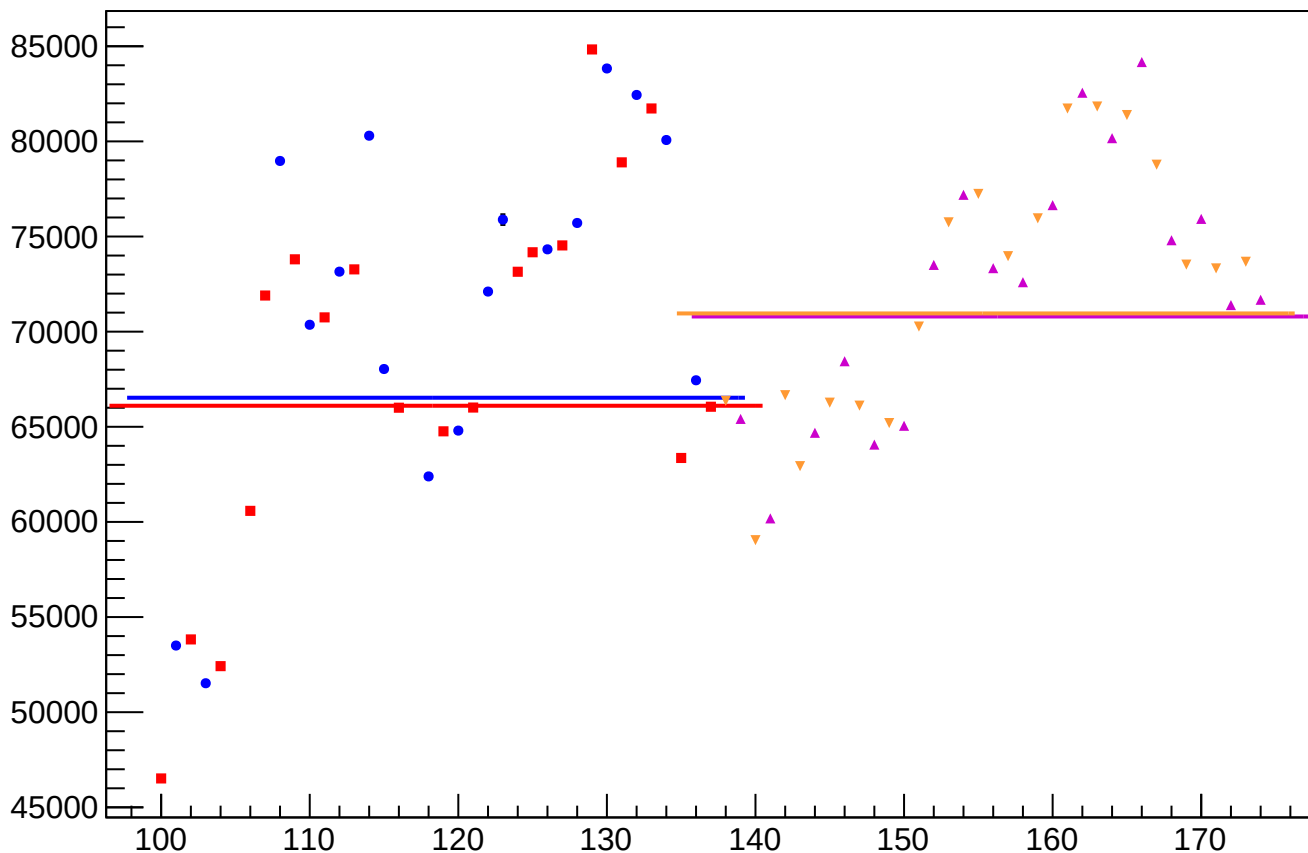
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -14.273 $\pm$ 15.365 χ^2/NDF : 52.6/34

Out: -11.482 $\pm$ 15.091 χ^2/NDF : 37.7/37

All: -12.853 $\pm$ 10.767 χ^2/NDF : 90.3/72

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251 ± 18.347 $\chi^2/\text{NDF}: 320887.2/16$

Left Out: 70957.195 ± 13.379 $\chi^2/\text{NDF}: 246571.2/18$

Right Out: 66105.849 ± 17.692 $\chi^2/\text{NDF}: 298485.4/18$

Left In: 70797.245 ± 13.483 $\chi^2/\text{NDF}: 223396.1/17$

Left: 70877.842 ± 9.497 $\chi^2/\text{NDF}: 470038.3/36$

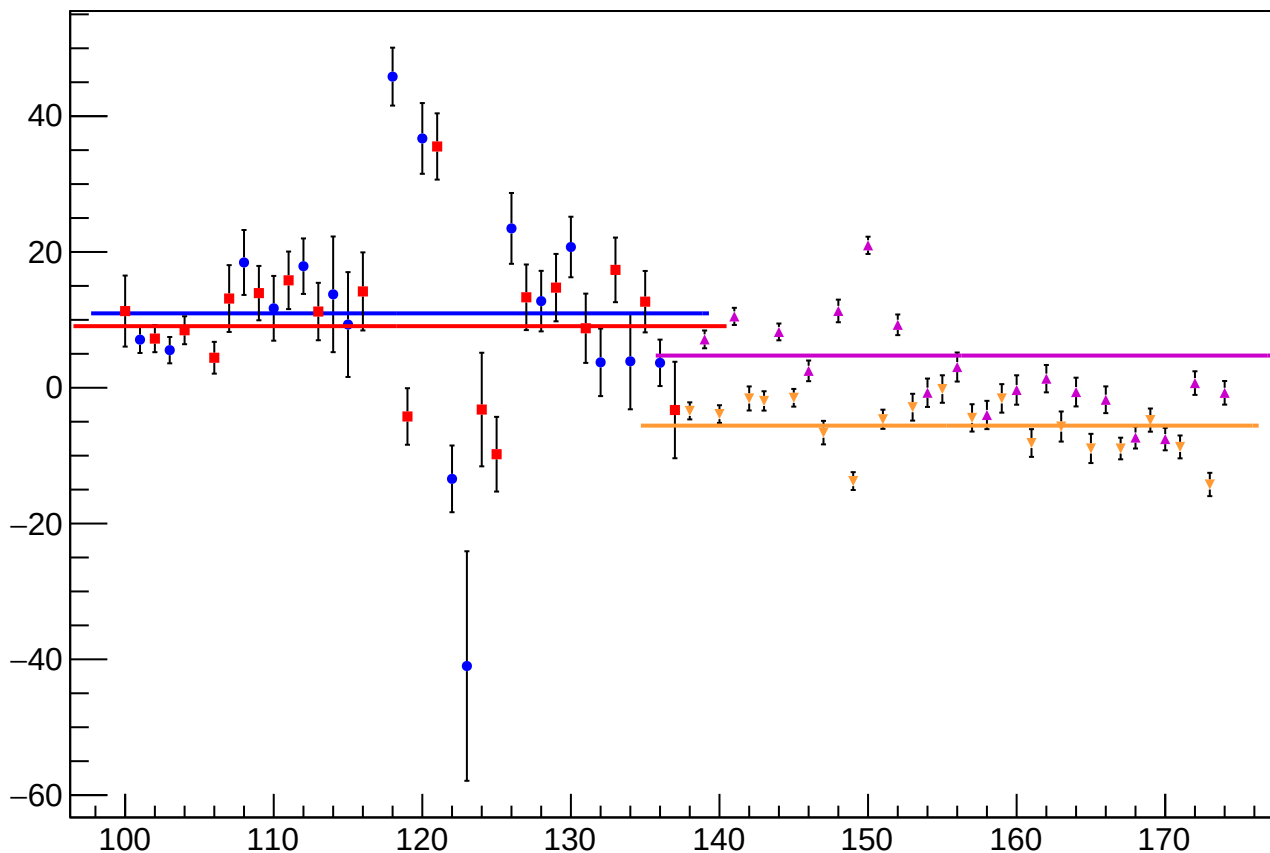
Right: 66308.894 ± 12.735 $\chi^2/\text{NDF}: 619646.0/35$

In: 69299.785 ± 10.865 $\chi^2/\text{NDF}: 579455.3/34$

Out: 69192.197 ± 10.671 $\chi^2/\text{NDF}: 592895.0/37$

All: 69245.024 ± 7.613 $\chi^2/\text{NDF}: 1172400.2/70$

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 $\pm$ 0.943 χ^2/NDF : 160.9/16

Left Out: -5.577 $\pm$ 0.375 χ^2/NDF : 116.3/18

Right Out: 9.072 $\pm$ 0.866 χ^2/NDF : 73.1/18

Left In: 4.741 $\pm$ 0.385 χ^2/NDF : 399.4/17

Left: -0.553 $\pm$ 0.269 χ^2/NDF : 883.7/36

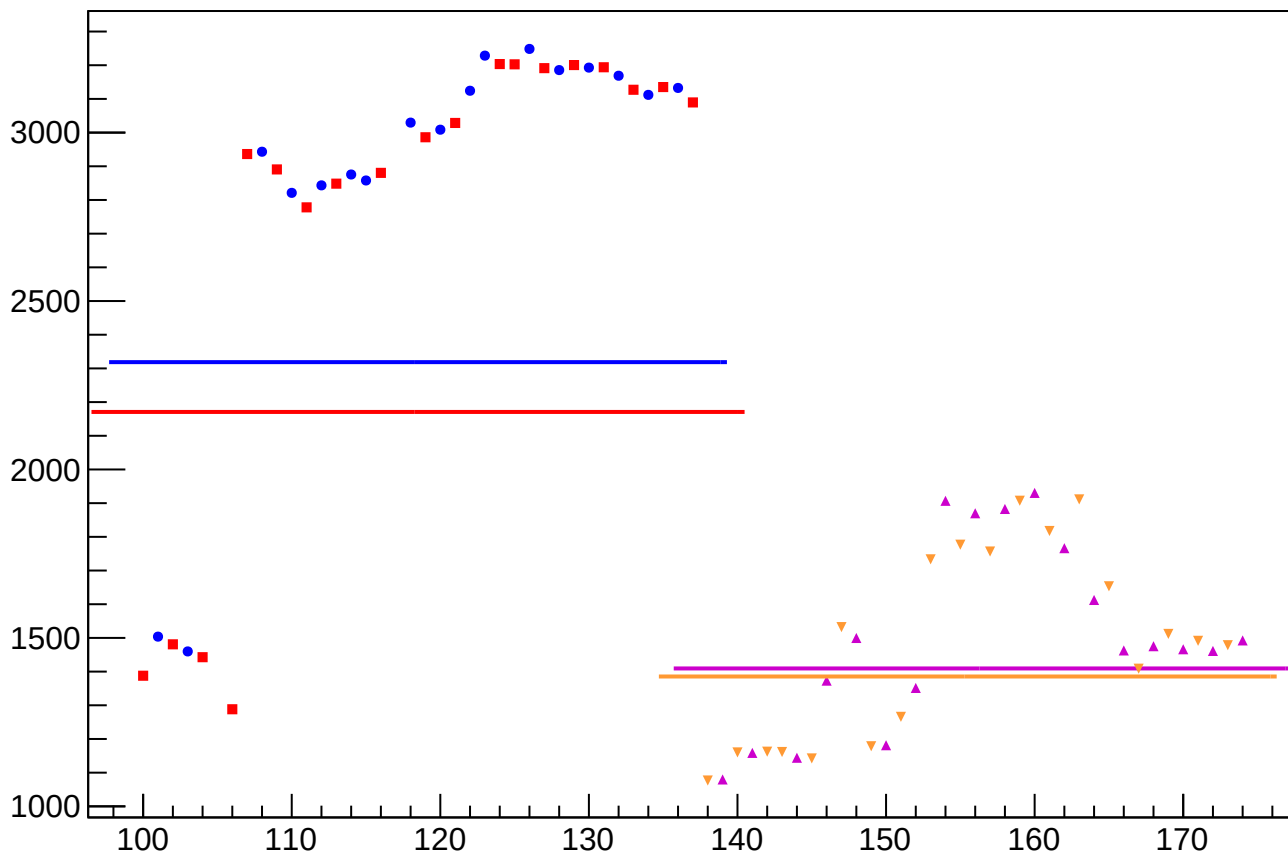
Right: 9.935 $\pm$ 0.638 χ^2/NDF : 236.2/35

In: 5.630 $\pm$ 0.357 χ^2/NDF : 597.6/34

Out: -3.262 $\pm$ 0.344 χ^2/NDF : 430.1/37

All: 1.028 $\pm$ 0.248 χ^2/NDF : 1349.4/72

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 $\pm$ 0.667 χ^2/NDF : 1408300.4/16

Left Out: 1385.459 $\pm$ 0.265 χ^2/NDF : 996429.0/18

Right Out: 2170.786 $\pm$ 0.613 χ^2/NDF : 1753687.8/18

Left In: 1409.351 $\pm$ 0.272 χ^2/NDF : 891719.4/17

Left: 1397.092 $\pm$ 0.190 χ^2/NDF : 1892095.2/36

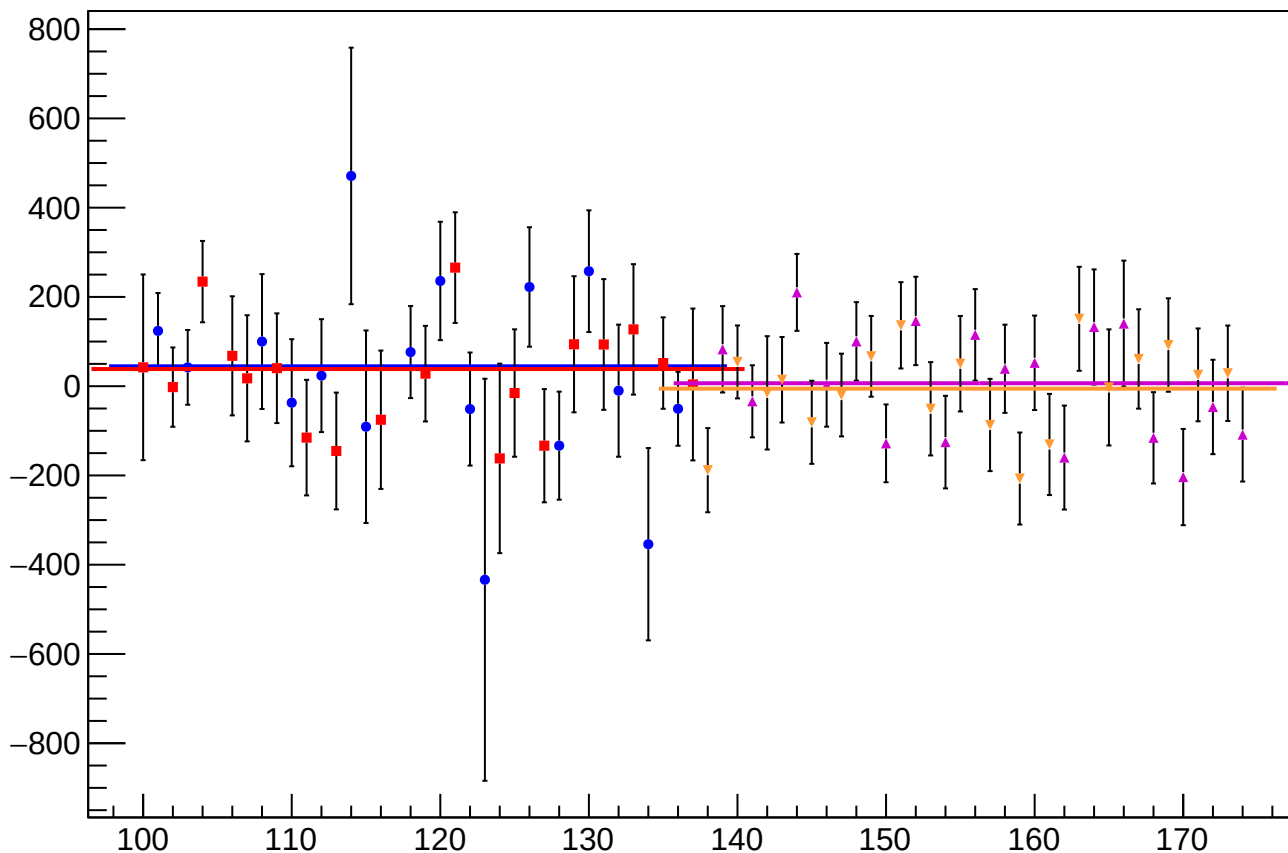
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1539.371 $\pm$ 0.252 χ^2/NDF : 3893002.1/34

Out: 1509.542 $\pm$ 0.244 χ^2/NDF : 4133886.9/37

All: 1523.933 $\pm$ 0.175 χ^2/NDF : 8034128.9/72

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2/NDF : 19.1/16

Left Out: -5.529 $\pm$ 23.422 χ^2/NDF : 17.1/18

Right Out: 38.425 $\pm$ 29.435 χ^2/NDF : 15.7/18

Left In: 6.626 $\pm$ 23.596 χ^2/NDF : 25.6/17

Left: 0.504 $\pm$ 16.623 χ^2/NDF : 42.8/36

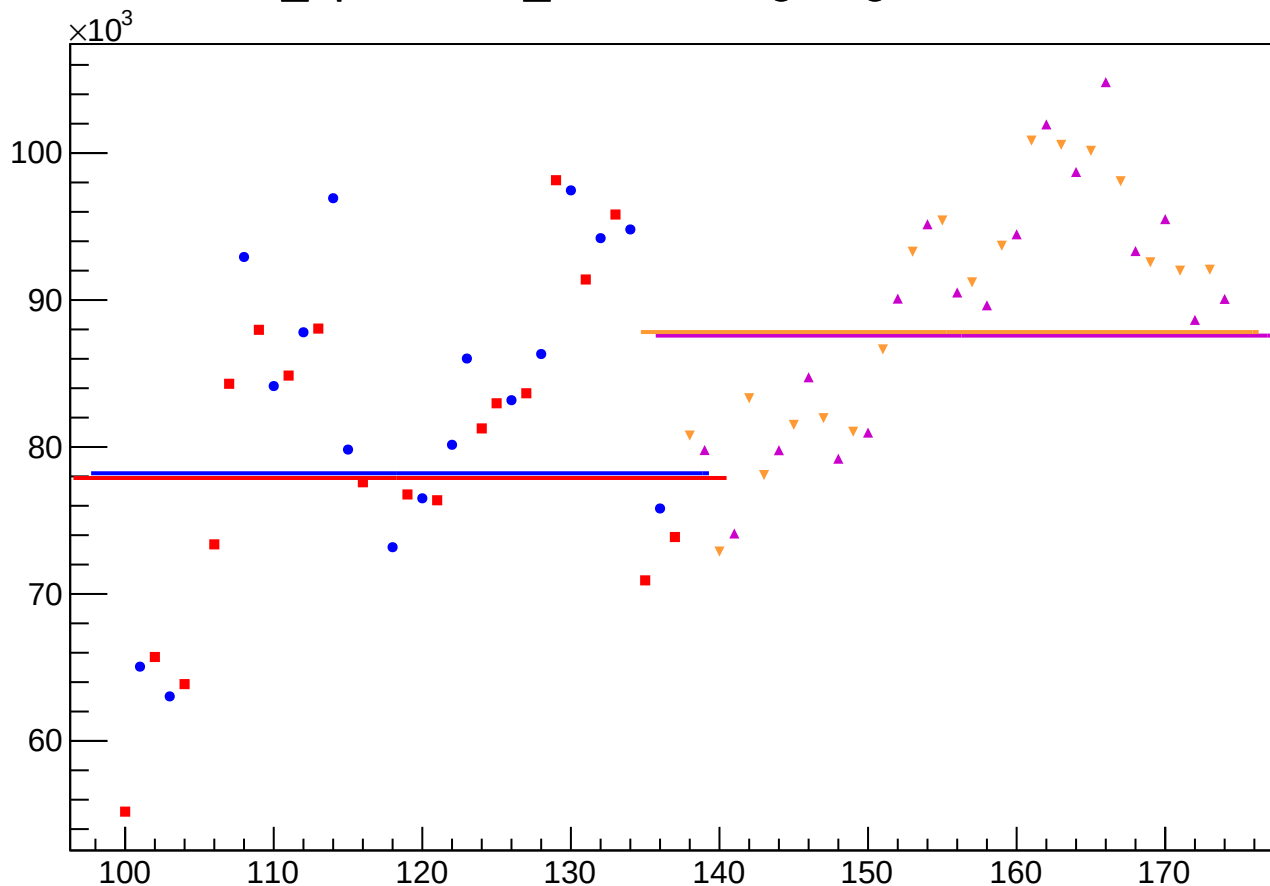
Right: 41.353 $\pm$ 21.157 χ^2/NDF : 34.9/35

In: 20.840 $\pm$ 18.647 χ^2/NDF : 45.6/34

Out: 11.511 $\pm$ 18.328 χ^2/NDF : 34.3/37

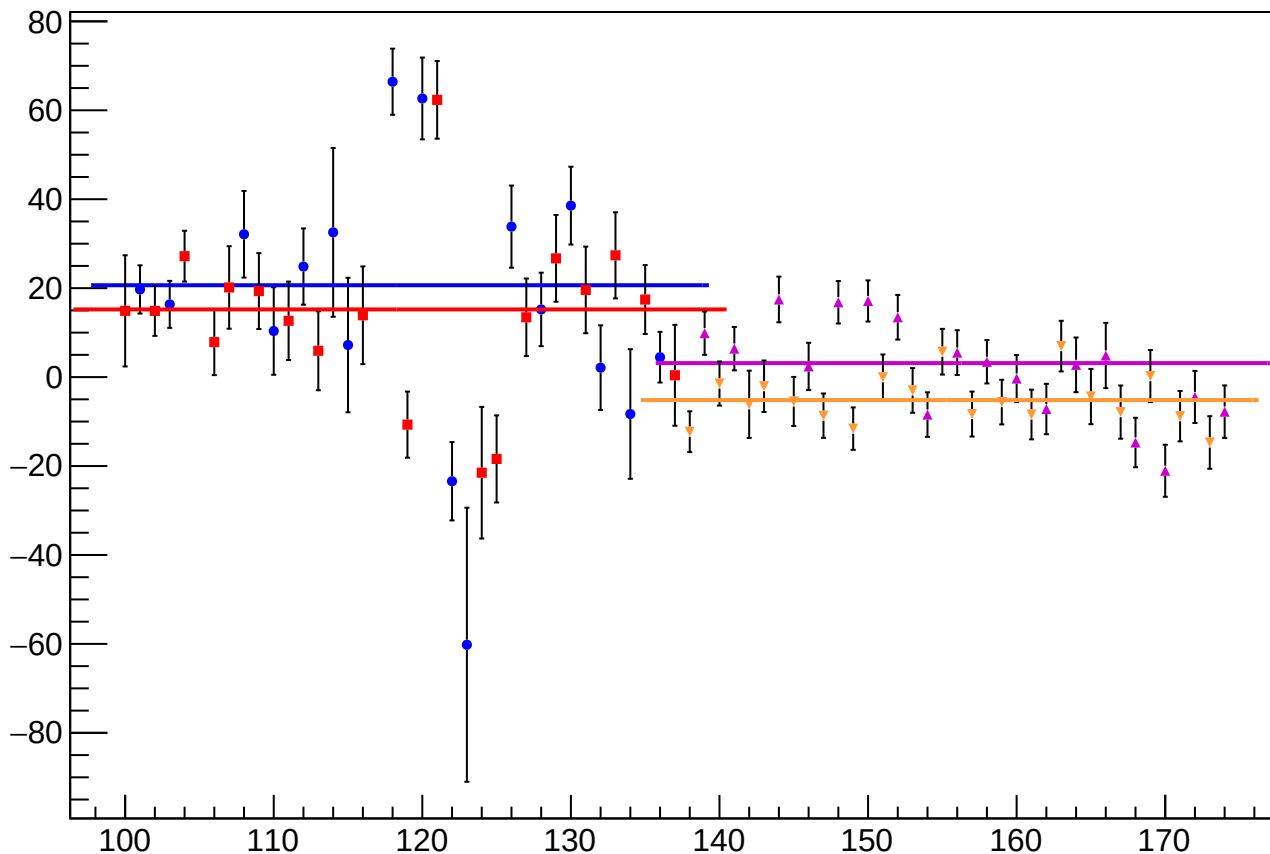
All: 16.095 $\pm$ 13.071 χ^2/NDF : 80.0/72

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519	χ^2/NDF : 251056.7/16	Left: 87701.568+/-11.754	χ^2/NDF : 482802.3/36
Left Out: 87821.705+/-16.562	χ^2/NDF : 249756.5/18	Right: 78047.137+/-14.960	χ^2/NDF : 498141.9/35
Right Out: 77891.938+/-20.814	χ^2/NDF : 246970.2/18	In: 84062.818+/-13.185	χ^2/NDF : 602327.5/34
Left In: 87579.640+/-16.685	χ^2/NDF : 232939.8/17	Out: 83972.054+/-12.960	χ^2/NDF : 636091.3/37
		All: 84016.652+/-9.243	χ^2/NDF : 1238442.9/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 ± 2.036 $\chi^2/\text{NDF}: 117.7/16$

Left Out: -5.171 ± 1.238 $\chi^2/\text{NDF}: 20.6/18$

Right Out: 15.216 ± 1.955 $\chi^2/\text{NDF}: 71.3/18$

Left In: 3.147 ± 1.249 $\chi^2/\text{NDF}: 73.7/17$

Left: -1.051 ± 0.879 $\chi^2/\text{NDF}: 116.7/36$

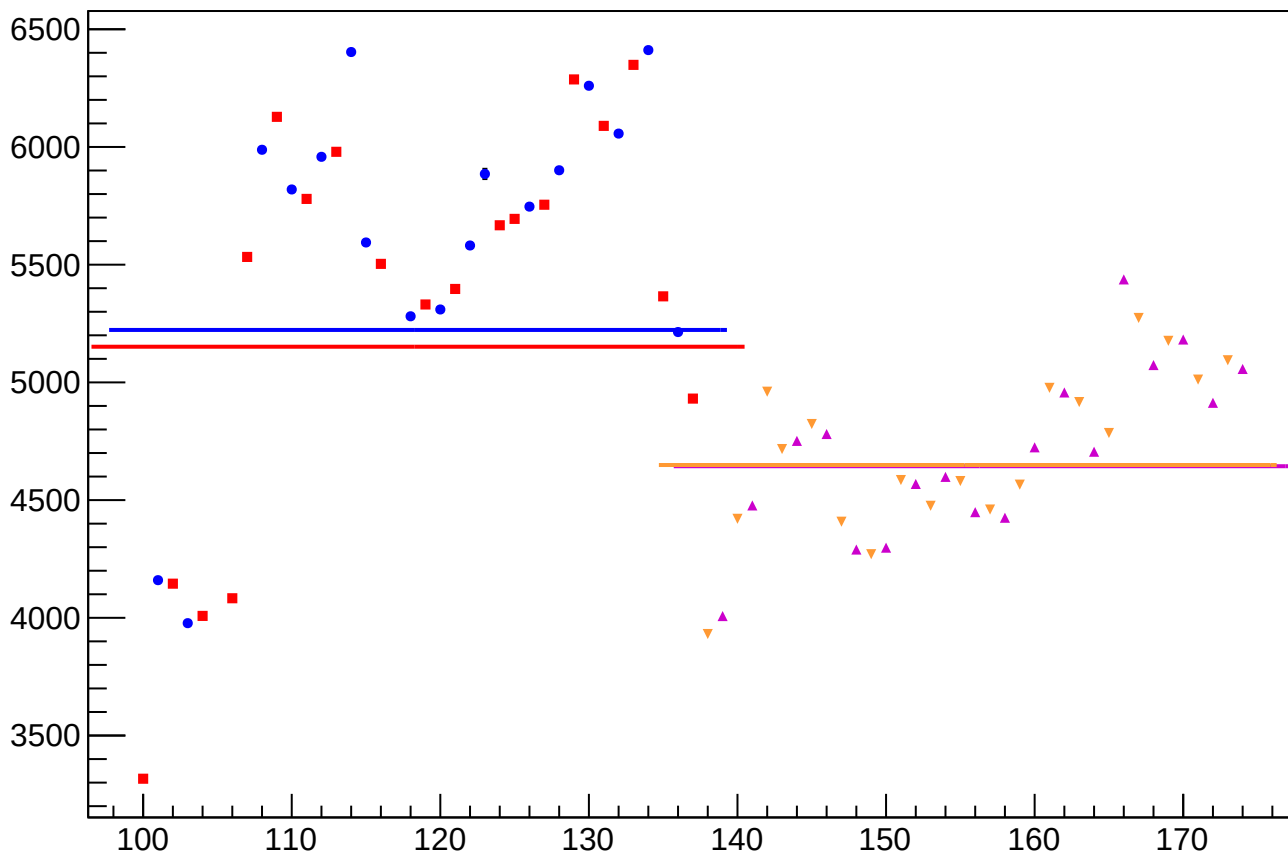
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

In: 7.938 ± 1.065 $\chi^2/\text{NDF}: 245.1/34$

Out: 0.662 ± 1.046 $\chi^2/\text{NDF}: 169.6/37$

All: 4.234 ± 0.746 $\chi^2/\text{NDF}: 438.5/72$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 $\chi^2/\text{NDF}: 312497.9/16$

Left Out: 4649.073 ± 0.875 $\chi^2/\text{NDF}: 152375.3/18$

Right Out: 5151.532 ± 1.382 $\chi^2/\text{NDF}: 387685.6/18$

Left In: 4643.938 ± 0.883 $\chi^2/\text{NDF}: 141587.2/17$

Left: 4646.530 ± 0.622 $\chi^2/\text{NDF}: 293979.5/36$

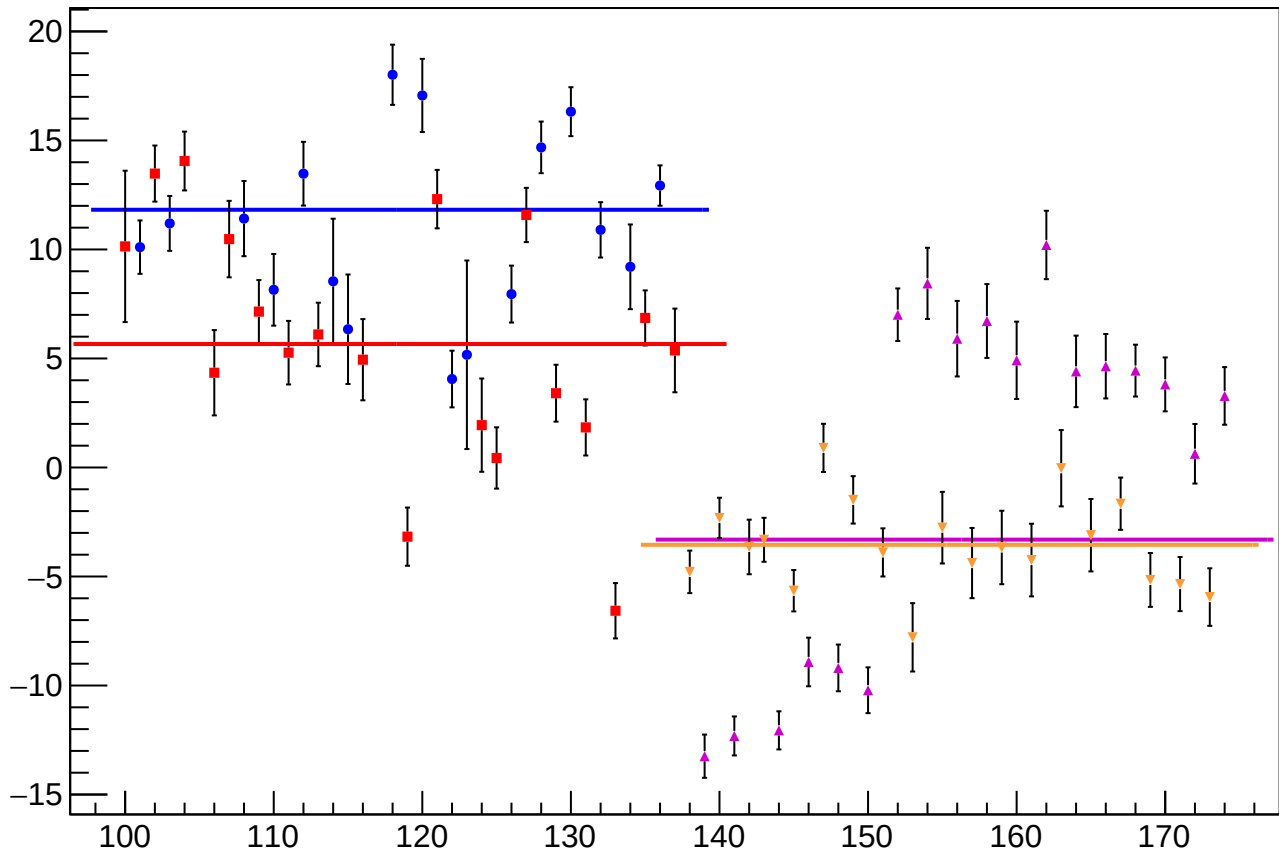
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4802.287 ± 0.753 $\chi^2/\text{NDF}: 571526.8/34$

Out: 4792.846 ± 0.739 $\chi^2/\text{NDF}: 634397.6/37$

All: 4797.480 ± 0.528 $\chi^2/\text{NDF}: 1206004.4/72$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.545 ± 0.282 $\chi^2/\text{NDF}: 50.0/18$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -3.309 ± 0.290 $\chi^2/\text{NDF}: 845.0/17$

Left: -3.430 ± 0.202 $\chi^2/\text{NDF}: 895.3/36$

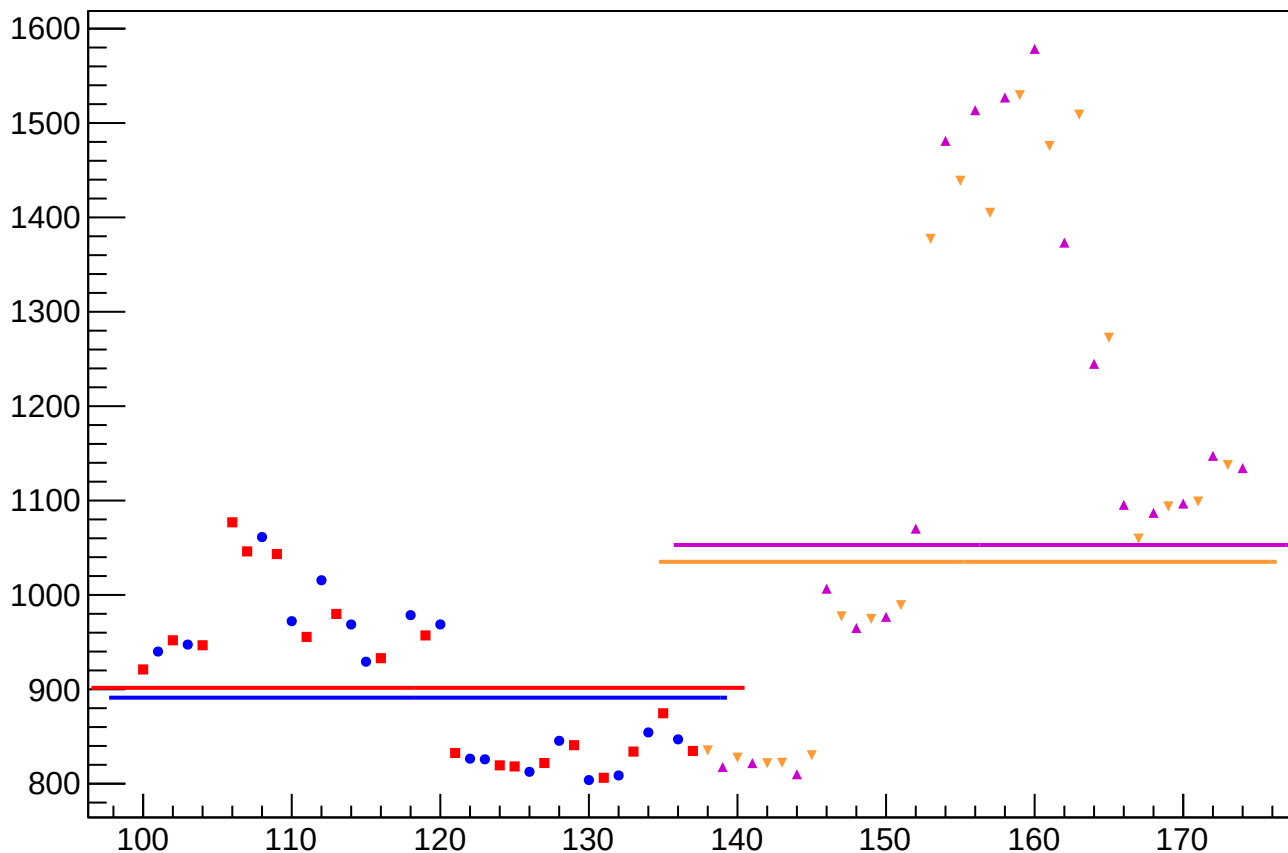
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.954 ± 0.222 $\chi^2/\text{NDF}: 2092.4/34$

Out: 0.228 ± 0.217 $\chi^2/\text{NDF}: 787.0/37$

All: 1.560 ± 0.155 $\chi^2/\text{NDF}: 2956.7/72$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149+/-0.244 χ^2/NDF : 101659.1/16

Left Out: 1035.098+/-0.199 χ^2/NDF :1283838.6/18

Right Out: 901.588+/-0.239 χ^2/NDF : 114590.8/18

Left In: 1052.959+/-0.205 χ^2/NDF :1174006.7/17

Left: 1043.793+/-0.143 χ^2/NDF : 2461751.6/36

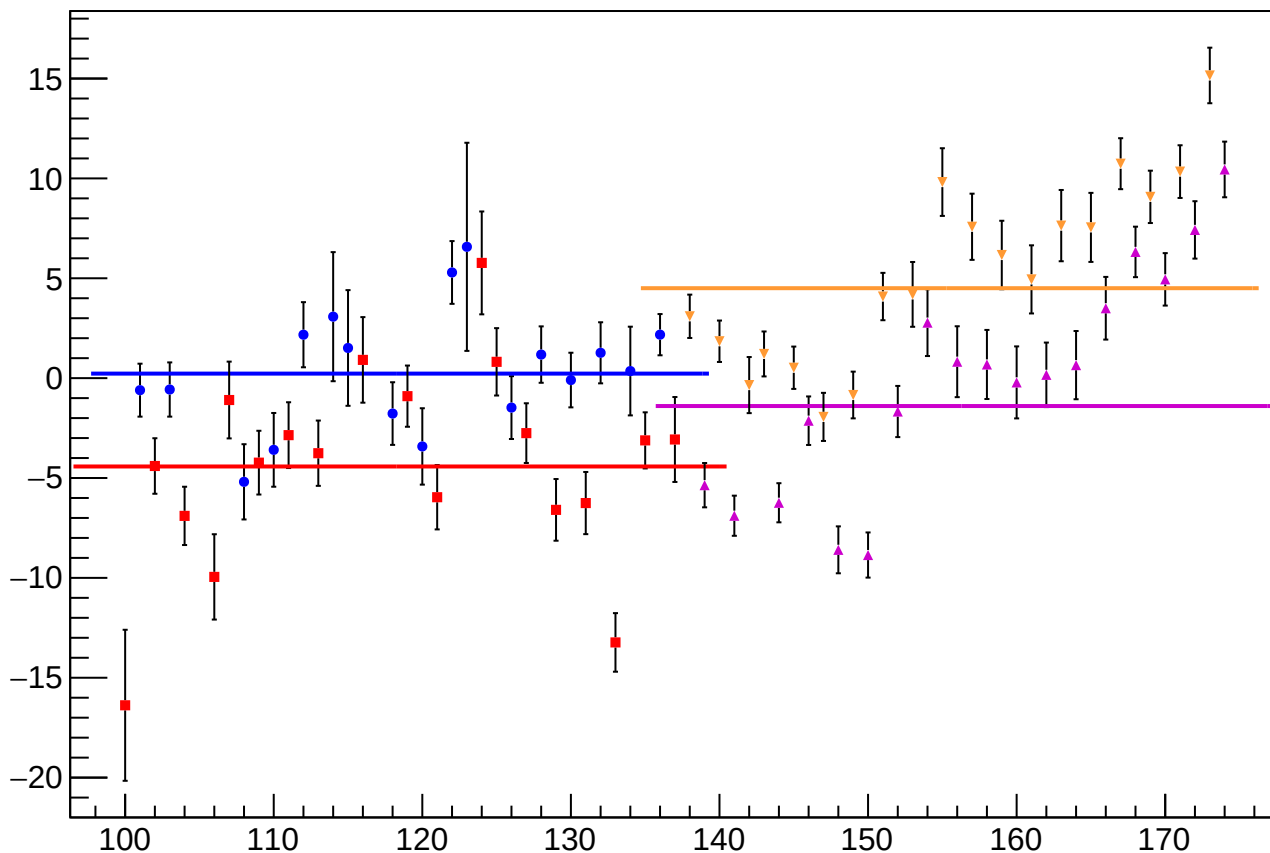
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 985.977+/-0.157 χ^2/NDF :1534250.8/34

Out: 980.395+/-0.153 χ^2/NDF :1582115.8/37

All: 983.122+/-0.110 χ^2/NDF : 3117015.5/72

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 $\pm$ 0.395 χ^2 /NDF: 38.5/16

Left Out: 4.503 $\pm$ 0.304 χ^2 /NDF:227.3/18

Right Out: -4.423 $\pm$ 0.387 χ^2 /NDF: 103.3/18

Left In: -1.397 $\pm$ 0.312 χ^2 /NDF:340.9/17

Left: 1.626 $\pm$ 0.218 χ^2 /NDF: 751.7/36

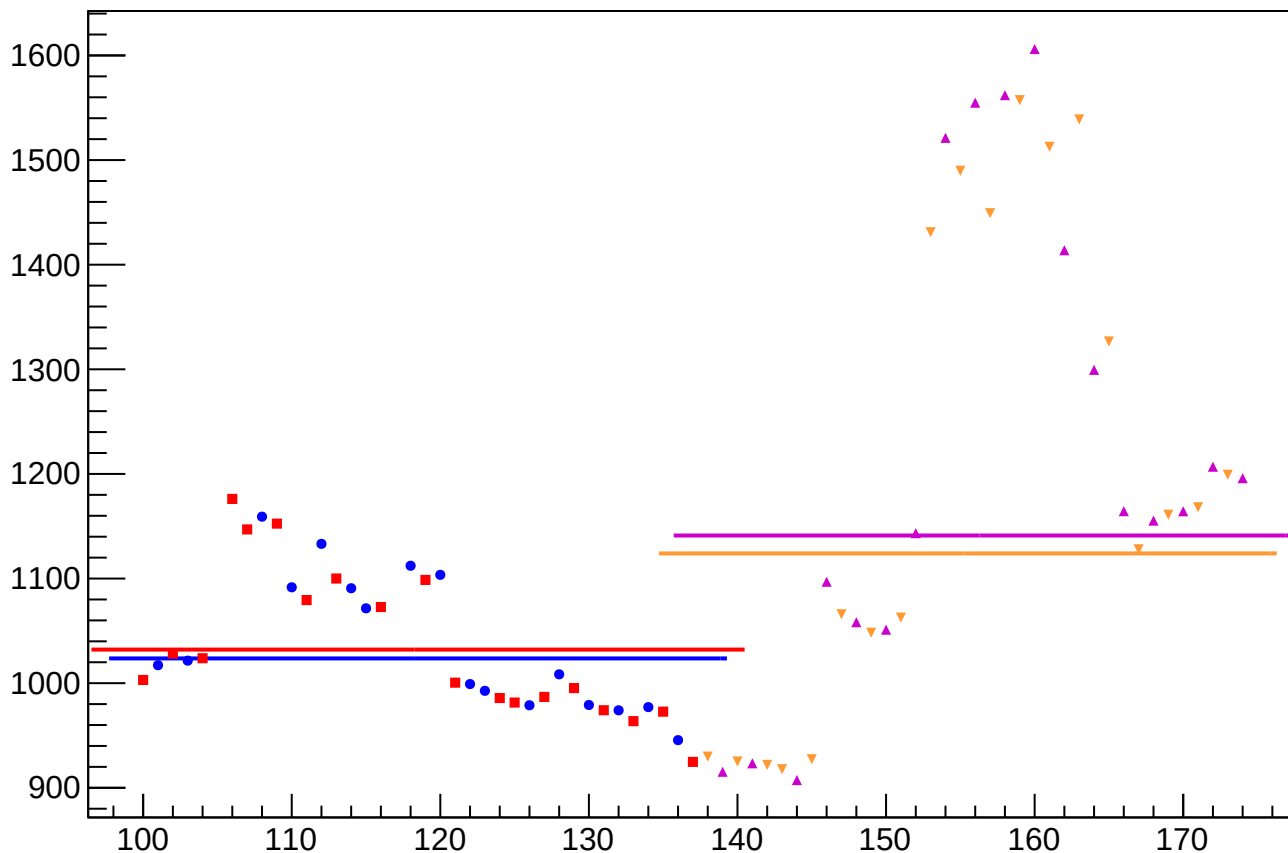
Right: -2.147 $\pm$ 0.276 χ^2 /NDF: 212.6/35

In: -0.774 $\pm$ 0.245 χ^2 /NDF:389.8/34

Out: 1.093 $\pm$ 0.239 χ^2 /NDF:659.8/37

All: 0.181 $\pm$ 0.171 χ^2 /NDF: 1079.4/72

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655+/-0.279 χ^2/NDF : 52373.8/16

Left Out: 1124.023+/-0.215 χ^2/NDF : 952453.5/18

Right Out: 1032.107+/-0.273 χ^2/NDF : 59391.6/18

Left In: 1141.140+/-0.220 χ^2/NDF : 862380.1/17

Left: 1132.371+/-0.154 χ^2/NDF : 1817923.8/36

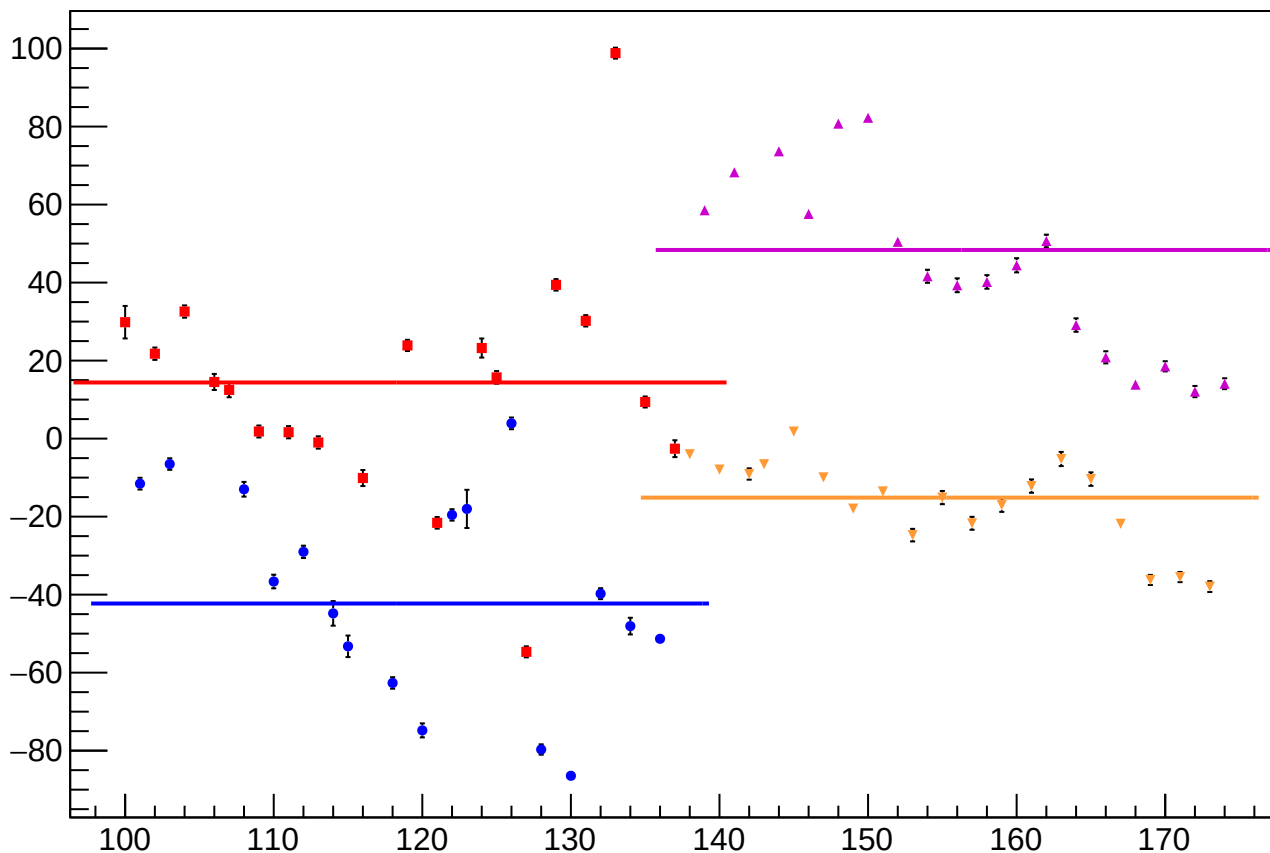
Right: 1027.970+/-0.195 χ^2/NDF : 112233.0/35

In: 1096.058+/-0.173 χ^2/NDF : 1023799.7/34

Out: 1088.902+/-0.169 χ^2/NDF : 1081659.2/37

All: 1092.397+/-0.121 χ^2/NDF : 2106334.3/72

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -15.130 ± 0.309 χ^2/NDF : 1381.6/18

Right Out: 14.393 ± 0.378 χ^2/NDF : 7669.8/18

Left In: 48.365 ± 0.318 χ^2/NDF : 5571.9/17

Left: 15.722 ± 0.222 χ^2/NDF : 27472.8/36

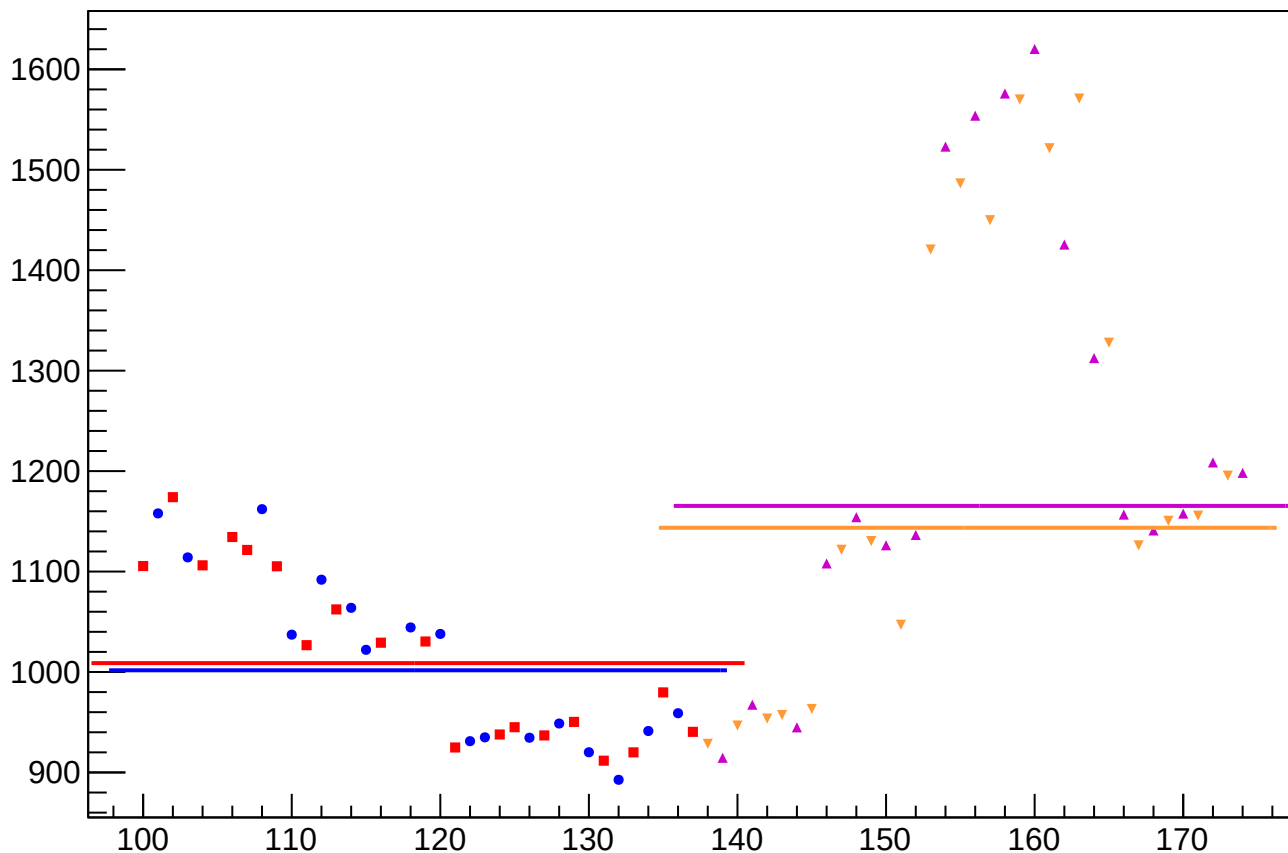
Right: -13.301 ± 0.271 χ^2/NDF : 23754.3/35

In: 11.869 ± 0.246 χ^2/NDF : 43448.9/34

Out: -3.322 ± 0.239 χ^2/NDF : 12702.9/37

All: 4.076 ± 0.171 χ^2/NDF : 58113.8/72

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1143.589 $\pm$ 0.218 χ^2 /NDF: 864563.0/18

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1165.360 $\pm$ 0.225 χ^2 /NDF: 765989.3/17

Left: 1154.167 $\pm$ 0.157 χ^2 /NDF: 1635377.1/36

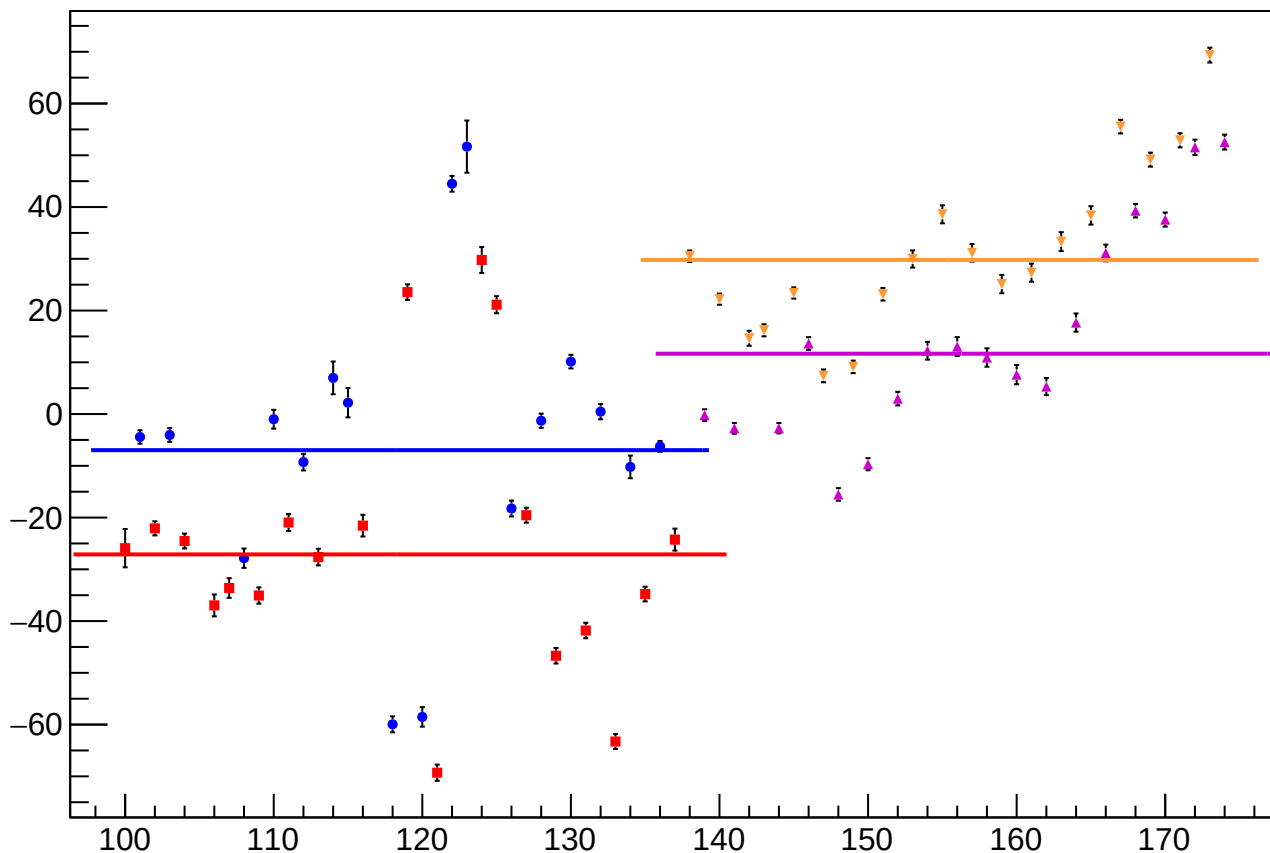
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1099.468 $\pm$ 0.174 χ^2 /NDF: 1074982.5/34

Out: 1089.699 $\pm$ 0.169 χ^2 /NDF: 1112028.9/37

All: 1094.457 $\pm$ 0.121 χ^2 /NDF: 2188634.0/72

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 29.778 ± 0.313 χ^2/NDF : 2673.1/18

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 11.664 ± 0.321 χ^2/NDF : 3903.0/17

Left: 20.949 ± 0.224 χ^2/NDF : 8206.7/36

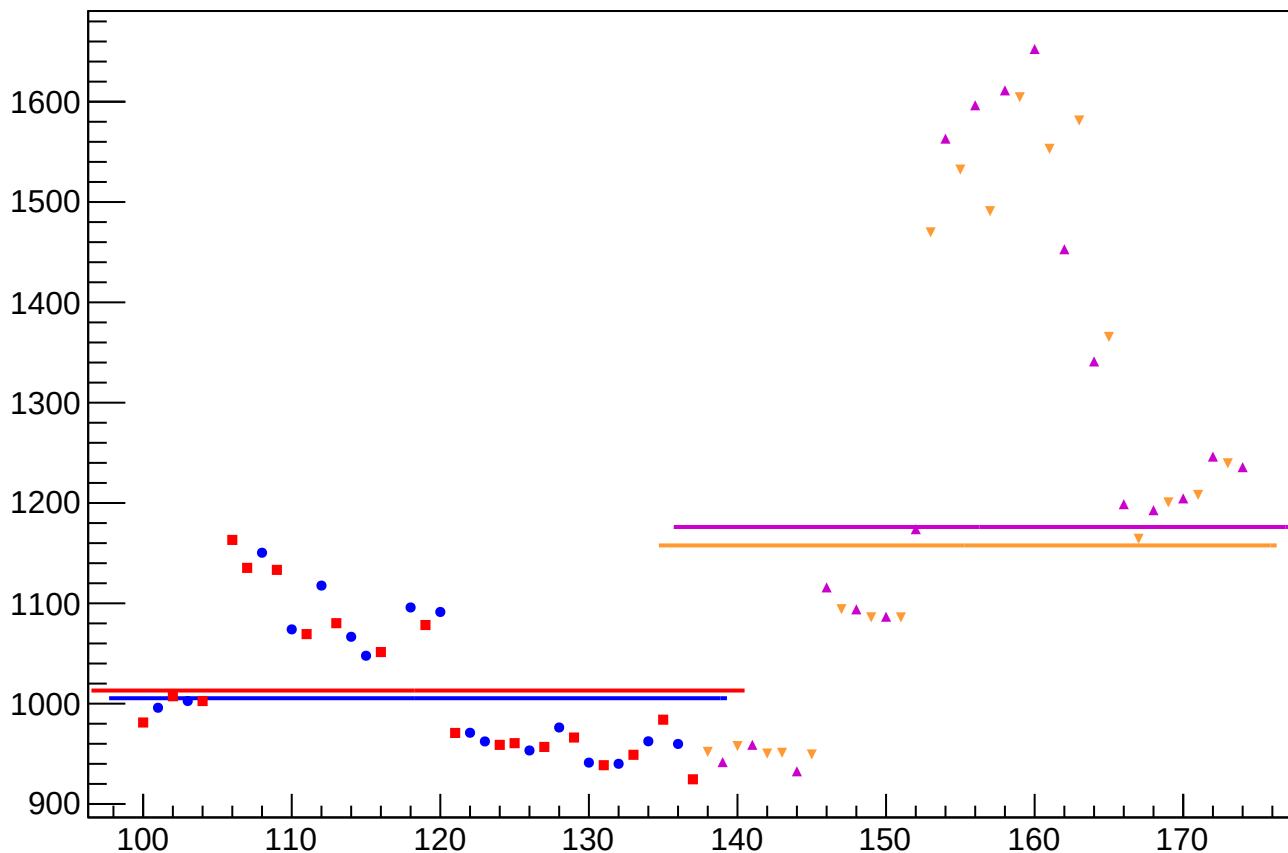
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 4.086 ± 0.247 χ^2/NDF : 8909.5/34

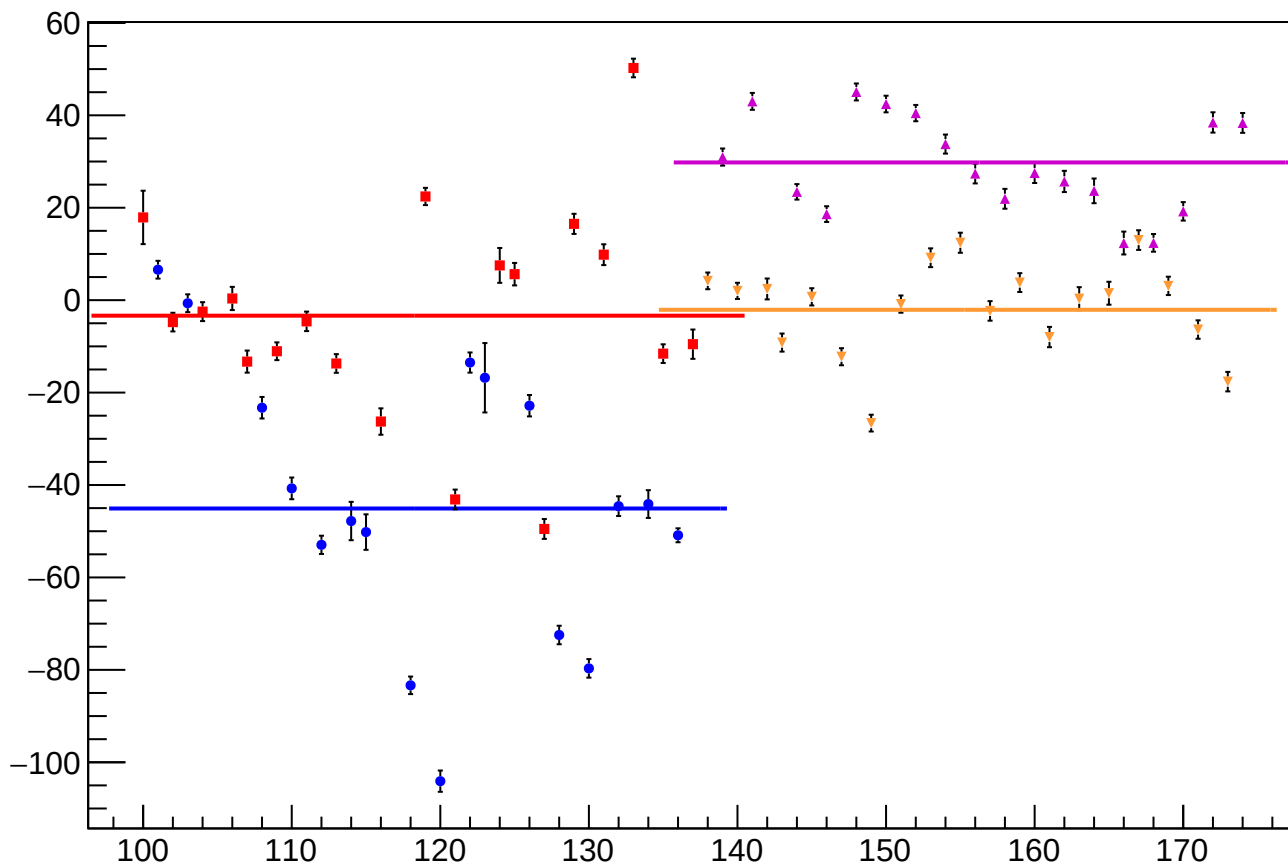
Out: 6.736 ± 0.242 χ^2/NDF : 20322.7/37

All: 5.442 ± 0.173 χ^2/NDF : 29291.0/72

diff_bpm2i02Y_rms vs Slug, Sign Corrected



diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.085 ± 0.463 χ^2/NDF : 460.0/18

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 29.800 ± 0.469 χ^2/NDF : 484.8/17

Left: 13.649 ± 0.330 χ^2/NDF : 3283.7/36

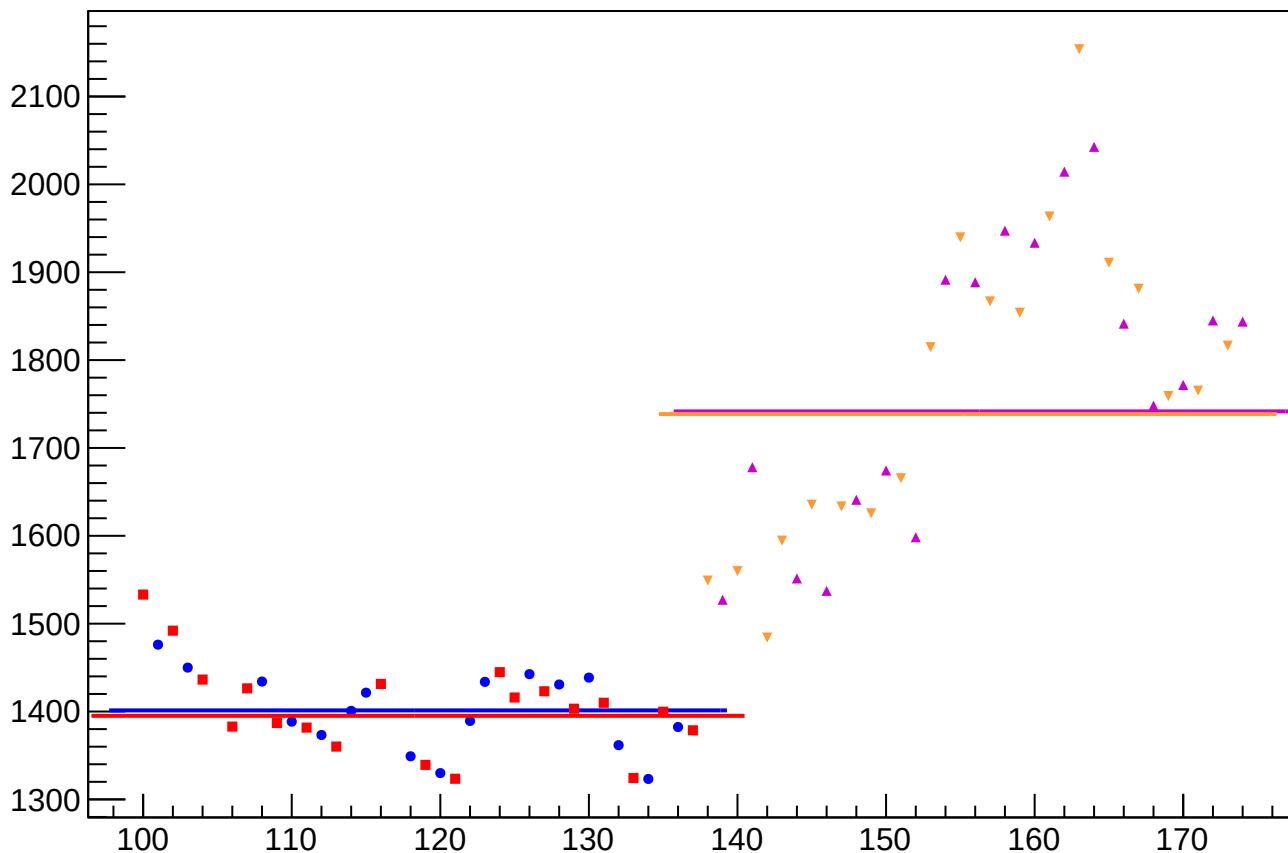
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -2.436 ± 0.354 χ^2/NDF : 14686.1/34

Out: -2.645 ± 0.346 χ^2/NDF : 2469.0/37

All: -2.543 ± 0.248 χ^2/NDF : 17155.3/72

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307+/-0.382 χ^2/NDF : 12852.1/16

Left Out: 1738.546+/-0.327 χ^2/NDF : 234557.6/18

Right Out: 1395.105+/-0.369 χ^2/NDF : 15520.0/18

Left In: 1741.624+/-0.332 χ^2/NDF : 226086.8/17

Left: 1740.064+/-0.233 χ^2/NDF : 460688.0/36

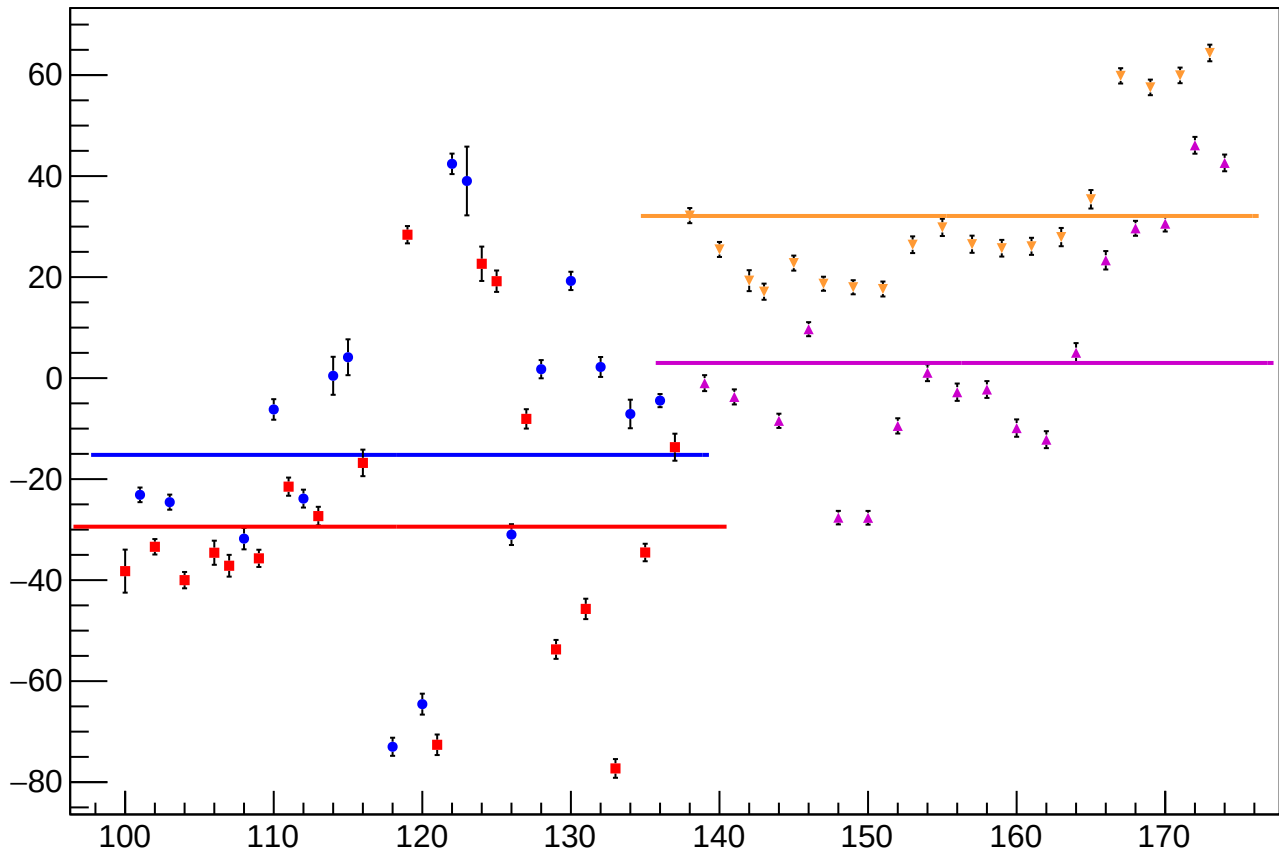
Right: 1398.102+/-0.265 χ^2/NDF : 28508.5/35

In: 1595.119+/-0.250 χ^2/NDF : 691832.9/34

Out: 1587.219+/-0.245 χ^2/NDF : 734706.0/37

All: 1591.082+/-0.175 χ^2/NDF : 1427047.6/72

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 32.105 ± 0.366 χ^2/NDF : 1853.2/18

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: 3.002 ± 0.369 χ^2/NDF : 3382.4/17

Left: 17.699 ± 0.260 χ^2/NDF : 8371.0/36

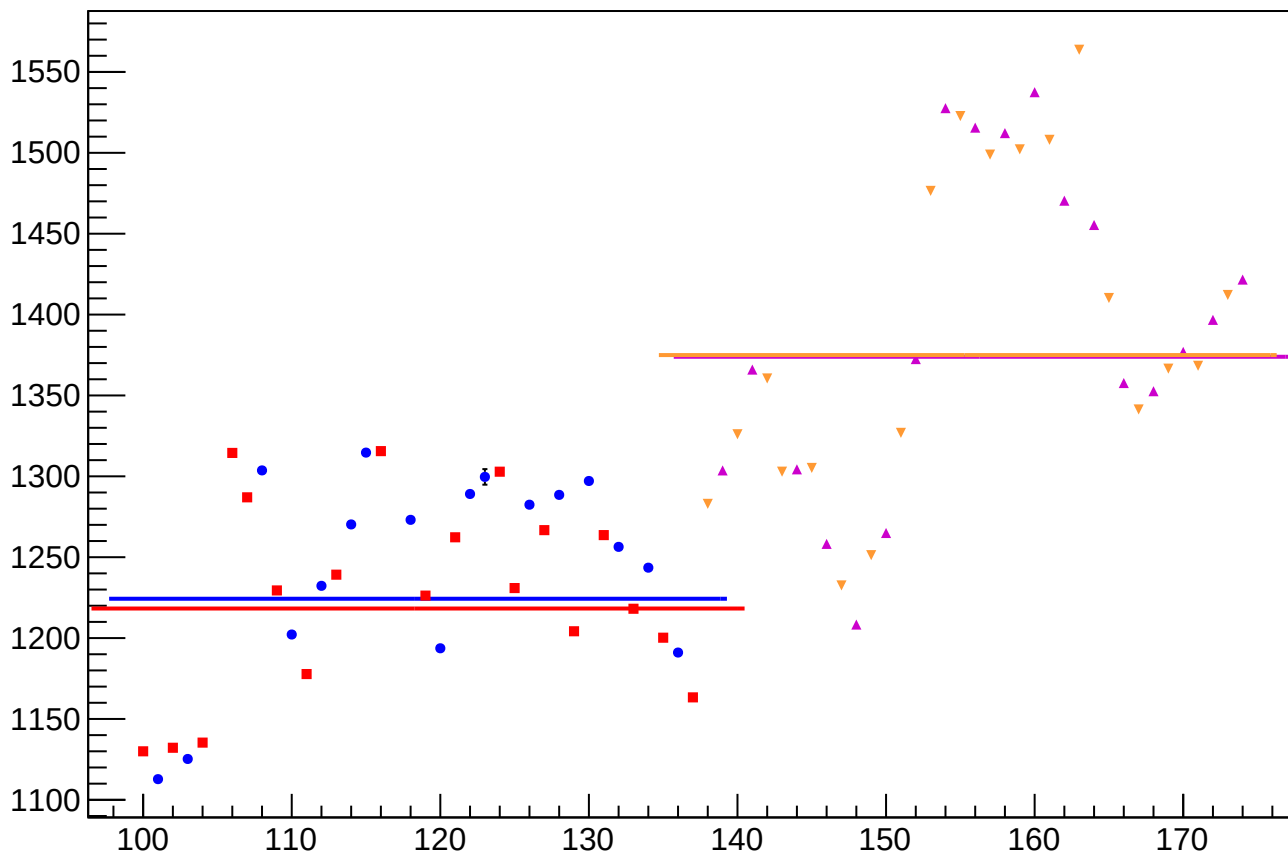
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -3.910 ± 0.291 χ^2/NDF : 7667.1/34

Out: 8.039 ± 0.285 χ^2/NDF : 16471.2/37

All: 2.181 ± 0.204 χ^2/NDF : 24998.1/72

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1374.968+/-0.259 χ^2/NDF : 139057.2/18

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1373.917+/-0.261 χ^2/NDF : 141444.2/17

Left: 1374.448+/-0.184 χ^2/NDF : 280509.5/36

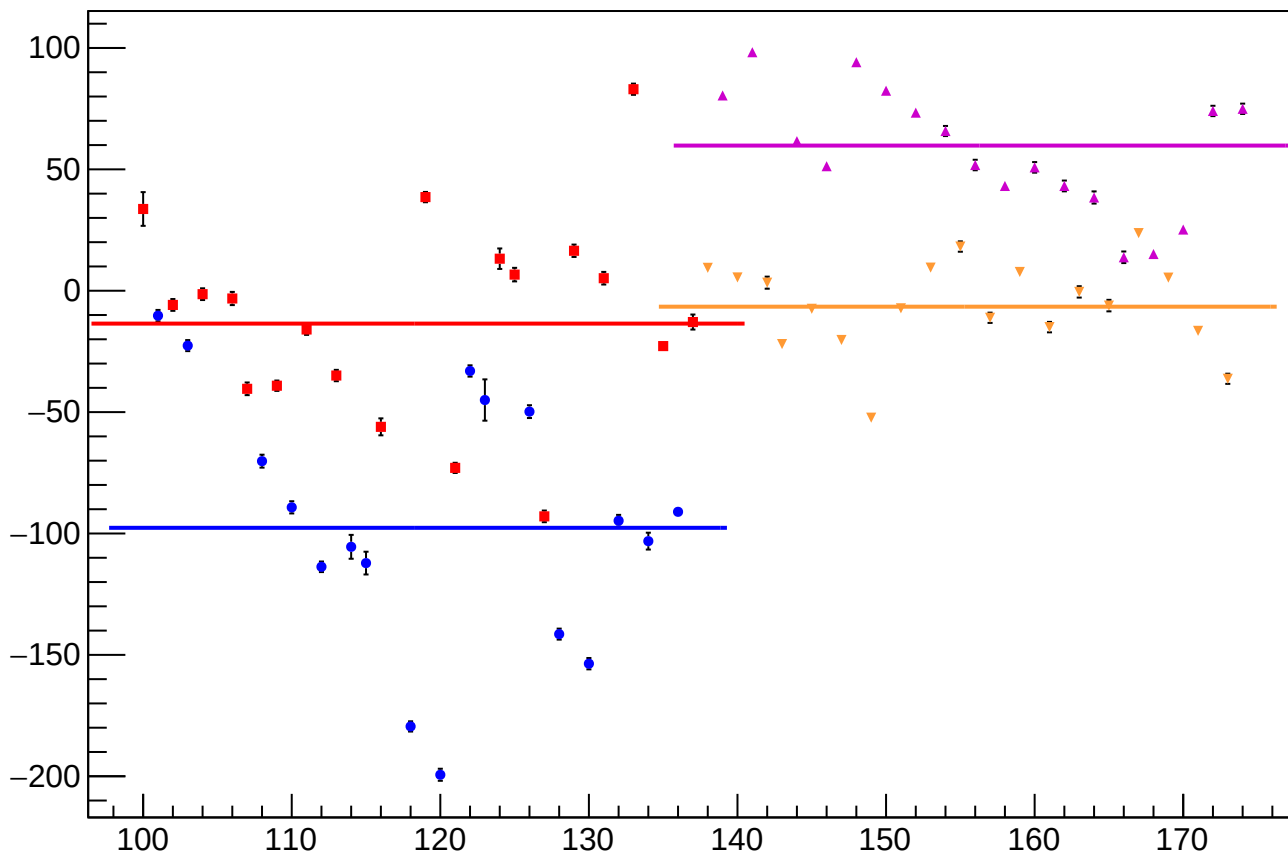
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1317.119+/-0.206 χ^2/NDF : 304788.9/34

Out: 1313.675+/-0.202 χ^2/NDF : 310287.7/37

All: 1315.364+/-0.144 χ^2/NDF : 615219.5/72

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -6.567 ± 0.461 χ^2/NDF : 1643.5/18

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 59.795 ± 0.468 χ^2/NDF : 2728.0/17

Left: 26.080 ± 0.328 χ^2/NDF : 14578.5/36

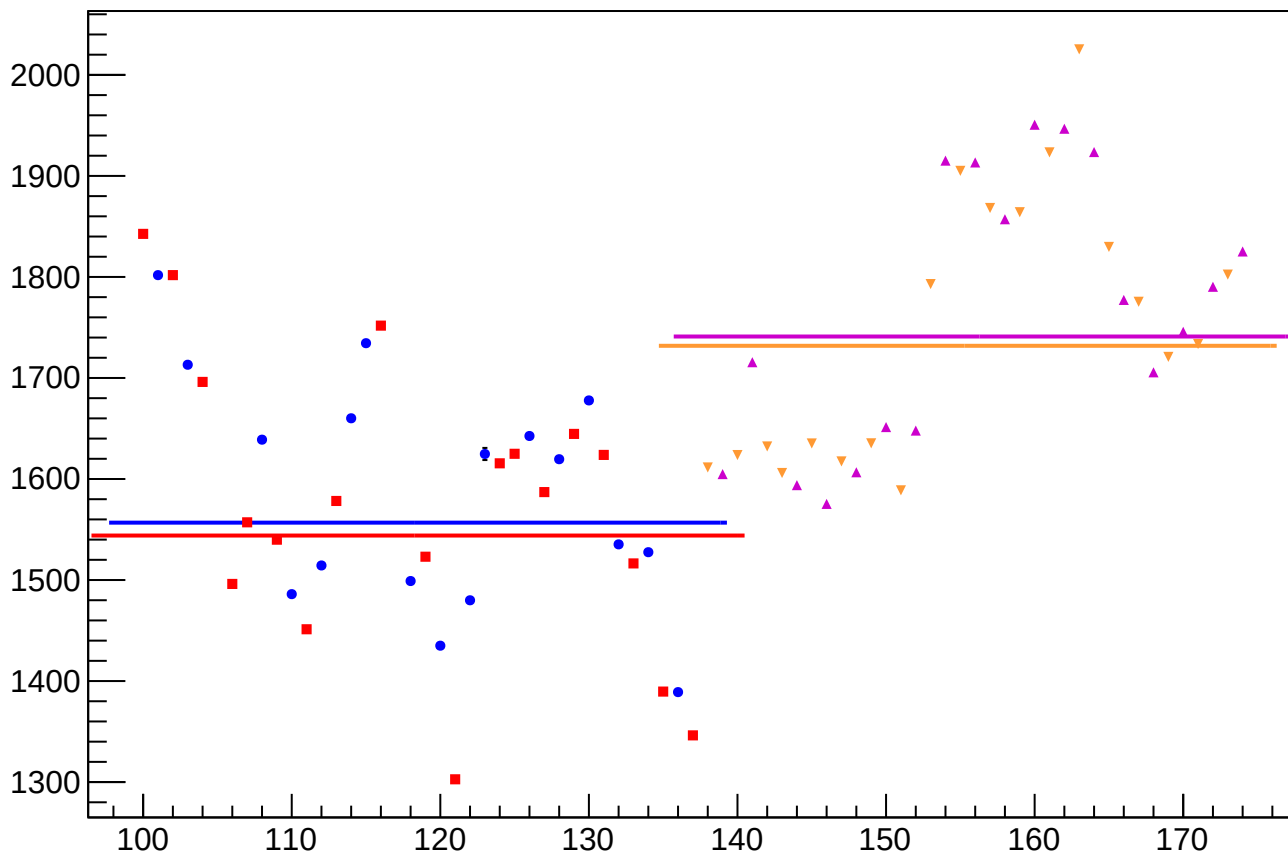
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 0.369 ± 0.369 χ^2/NDF : 53350.1/34

Out: -9.268 ± 0.361 χ^2/NDF : 6860.4/37

All: -4.566 ± 0.258 χ^2/NDF : 60558.9/72

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1731.846 $\pm$ 0.326 χ^2 /NDF:143852.6/18

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1741.044 $\pm$ 0.331 χ^2 /NDF:149002.5/17

Left: 1736.371 $\pm$ 0.232 χ^2 /NDF: 293247.2/36

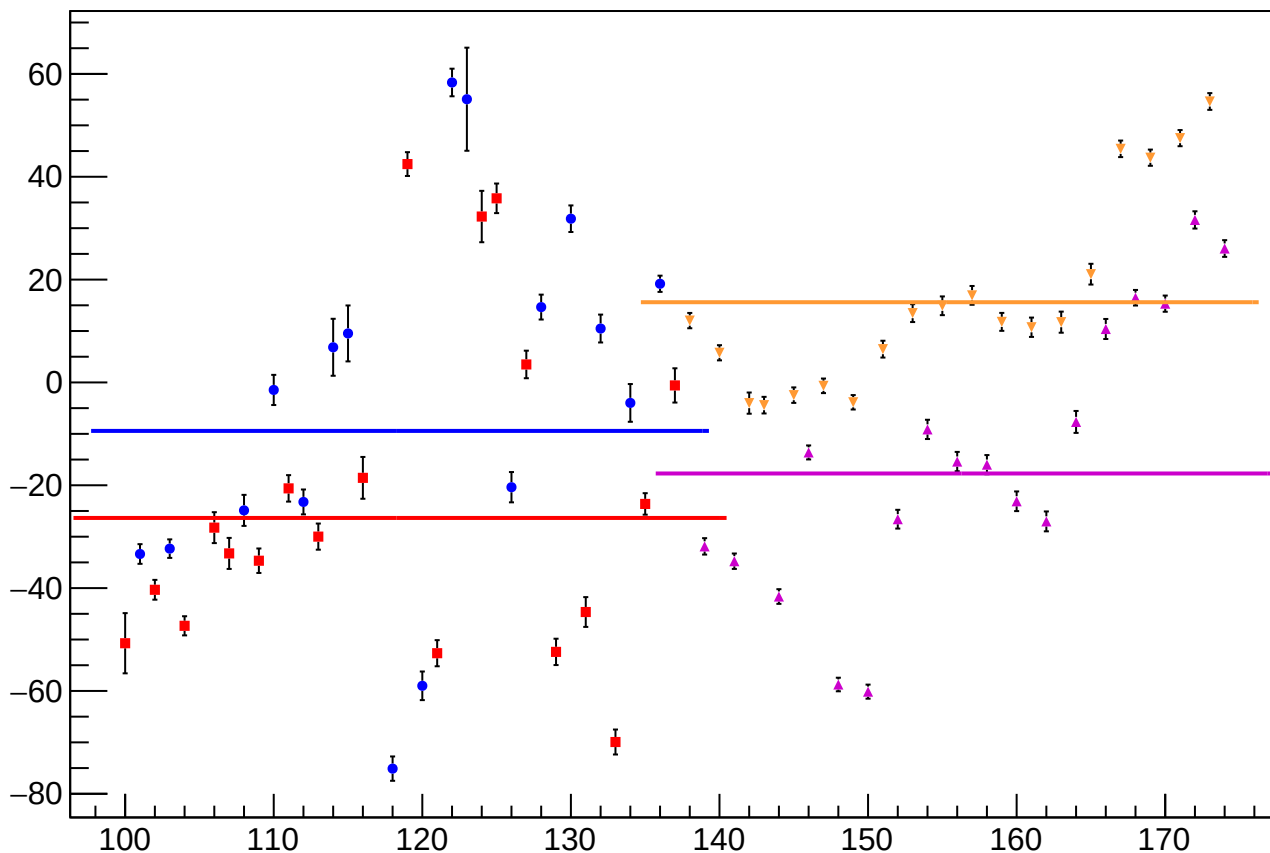
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1671.506 $\pm$ 0.261 χ^2 /NDF:347448.9/34

Out: 1659.090 $\pm$ 0.255 χ^2 /NDF:373103.9/37

All: 1665.148 $\pm$ 0.182 χ^2 /NDF: 721709.7/72

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 15.602 ± 0.379 χ^2/NDF : 2466.9/18

Right Out: -26.354 ± 0.603 χ^2/NDF : 2472.1/18

Left In: -17.708 ± 0.386 χ^2/NDF : 5267.7/17

Left: -0.784 ± 0.270 χ^2/NDF : 11525.9/36

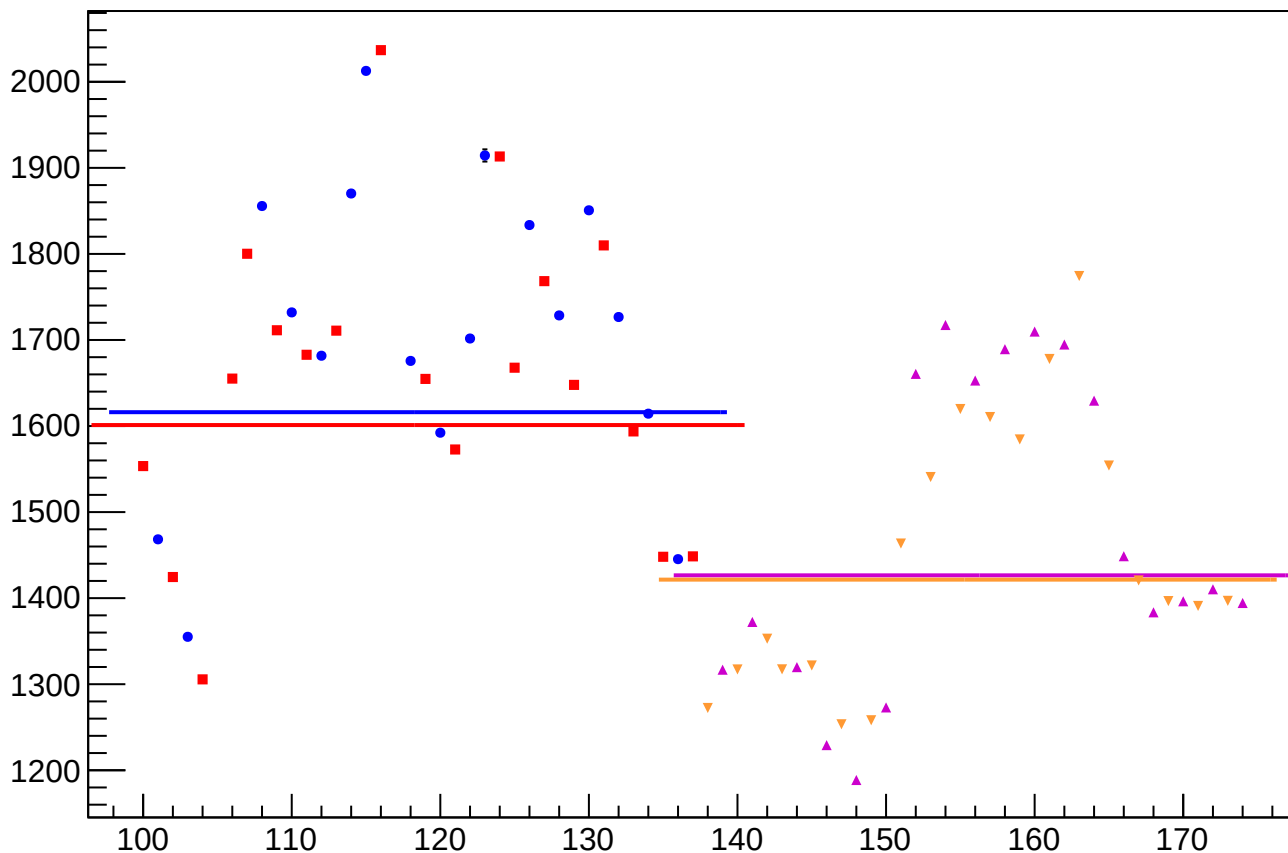
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -15.432 ± 0.328 χ^2/NDF : 8318.5/34

Out: 3.696 ± 0.321 χ^2/NDF : 8408.7/37

All: -5.654 ± 0.230 χ^2/NDF : 18461.9/72

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2/NDF : 149596.3/16

Left Out: 1421.515 $\pm$ 0.268 χ^2/NDF : 284586.4/18

Right Out: 1601.134 $\pm$ 0.426 χ^2/NDF : 153651.5/18

Left In: 1426.501 $\pm$ 0.273 χ^2/NDF : 408976.5/17

Left: 1423.968 $\pm$ 0.191 χ^2/NDF : 693732.8/36

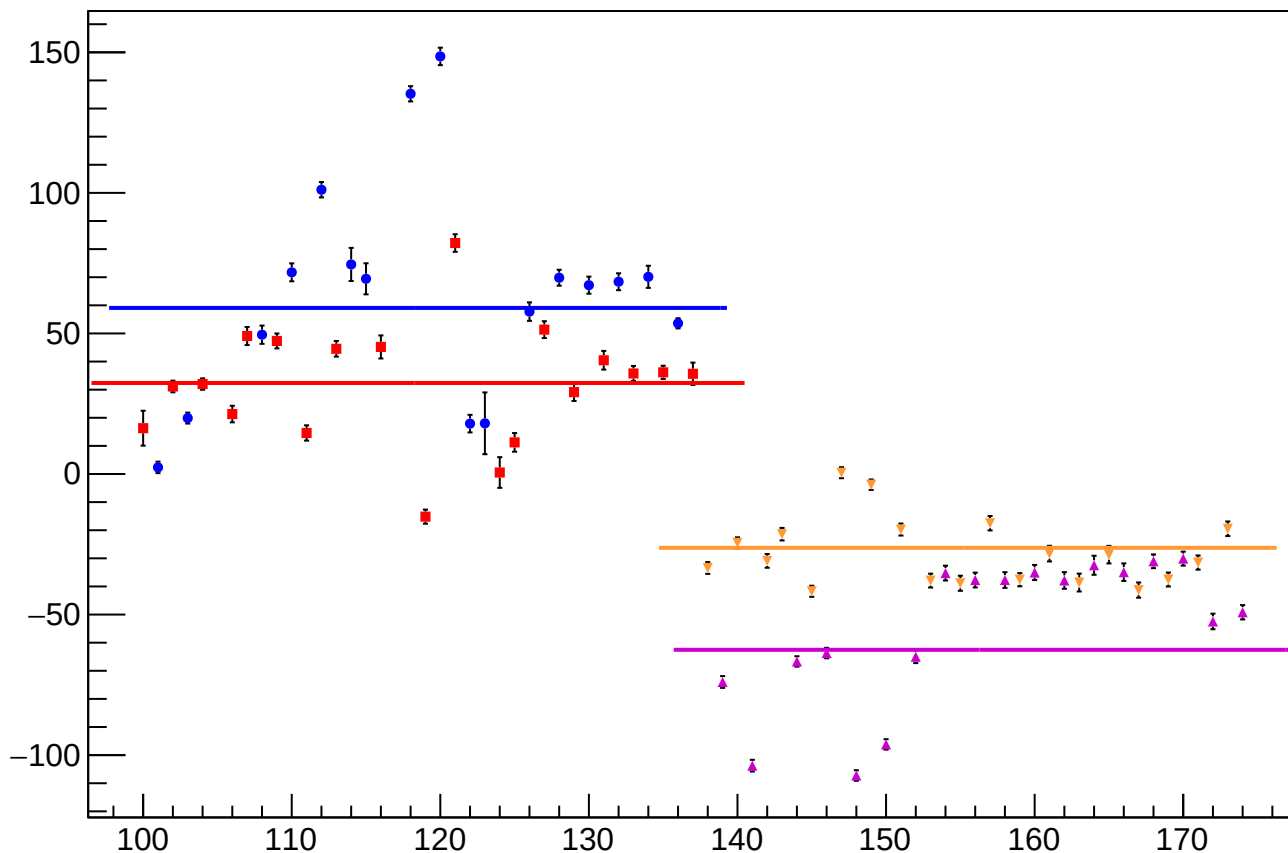
Right: 1608.326 $\pm$ 0.307 χ^2/NDF : 303840.0/35

In: 1478.595 $\pm$ 0.232 χ^2/NDF : 691425.9/34

Out: 1472.484 $\pm$ 0.227 χ^2/NDF : 565429.1/37

All: 1475.471 $\pm$ 0.162 χ^2/NDF : 1257209.0/72

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -26.252 ± 0.539 χ^2/NDF : 577.4/18

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -62.532 ± 0.552 χ^2/NDF : 2306.6/17

Left: -43.966 ± 0.386 χ^2/NDF : 5093.5/36

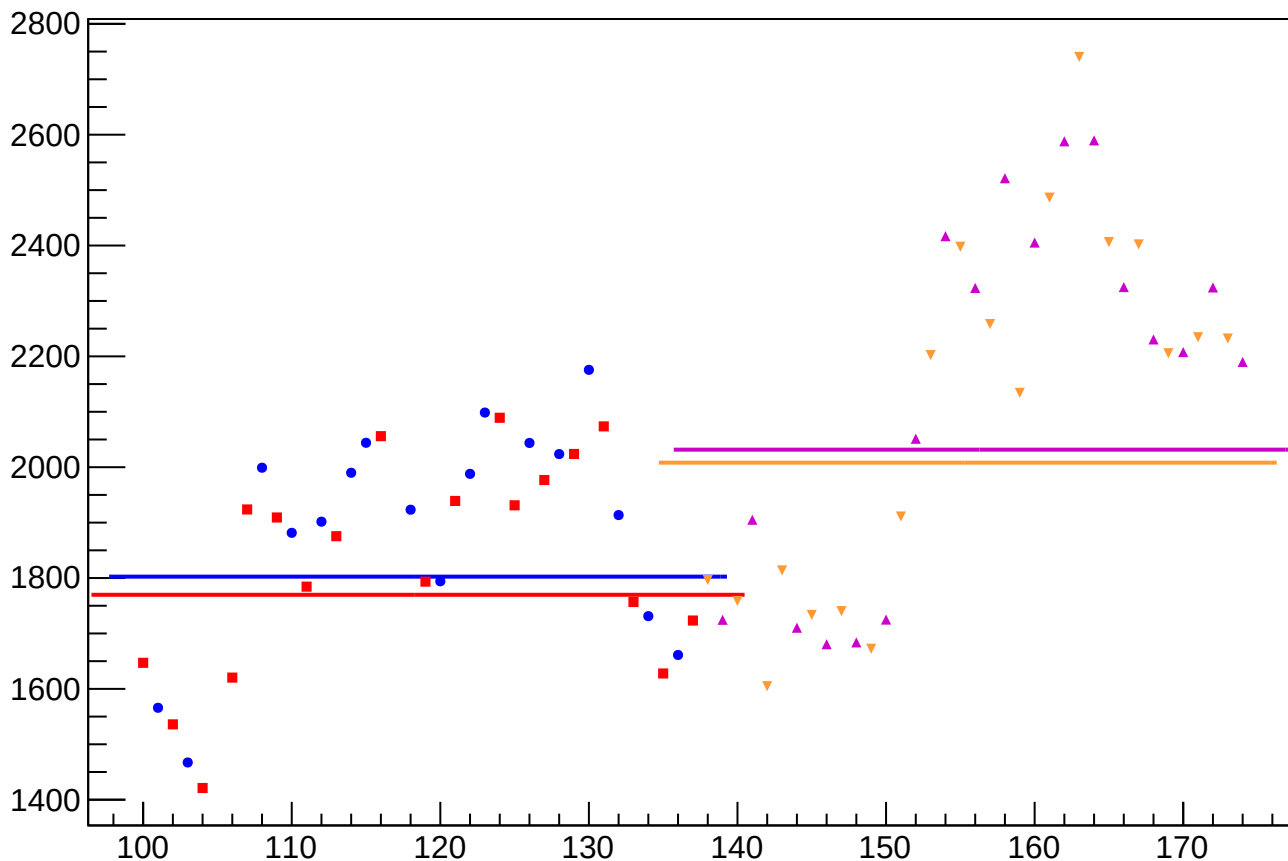
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -15.845 ± 0.433 χ^2/NDF : 24224.8/34

Out: -3.050 ± 0.419 χ^2/NDF : 6145.8/37

All: -9.236 ± 0.301 χ^2/NDF : 30820.8/72

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 +/- 0.495 χ^2/NDF : 184069.0/16

Left Out: 2008.201 +/- 0.381 χ^2/NDF : 628610.1/18

Right Out: 1769.772 +/- 0.471 χ^2/NDF : 177893.4/18

Left In: 2031.677 +/- 0.390 χ^2/NDF : 668652.1/17

Left: 2019.663 +/- 0.273 χ^2/NDF : 1299112.5/36

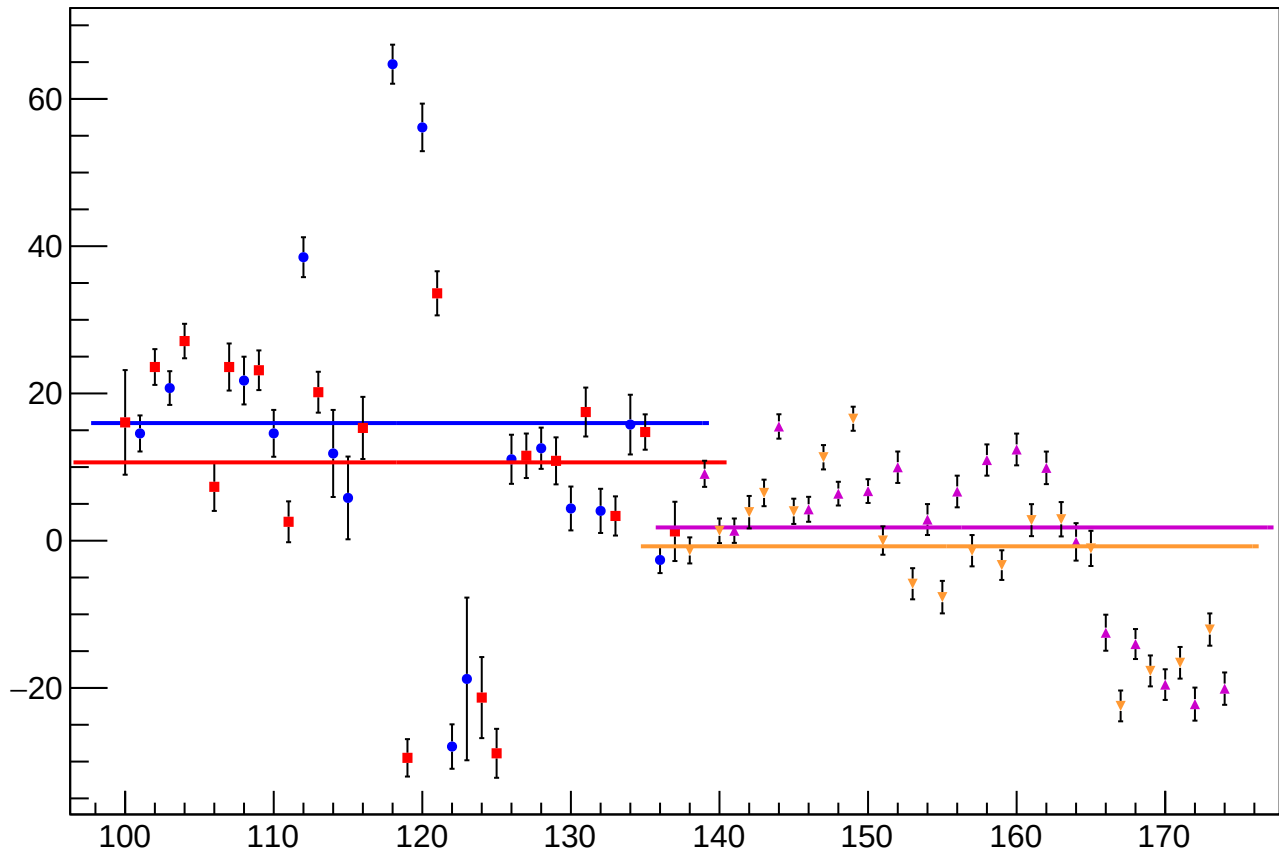
Right: 1785.358 +/- 0.341 χ^2/NDF : 364260.7/35

In: 1943.706 +/- 0.306 χ^2/NDF : 984974.8/34

Out: 1913.855 +/- 0.296 χ^2/NDF : 961178.8/37

All: 1928.286 +/- 0.213 χ^2/NDF : 1951055.2/72

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976+/-0.722 χ^2/NDF : 938.4/16

Left Out: -0.763+/-0.452 χ^2/NDF : 471.3/18

Right Out: 10.638+/-0.693 χ^2/NDF : 642.1/18

Left In: 1.801+/-0.463 χ^2/NDF : 595.3/17

Left: 0.490+/-0.324 χ^2/NDF : 1082.3/36

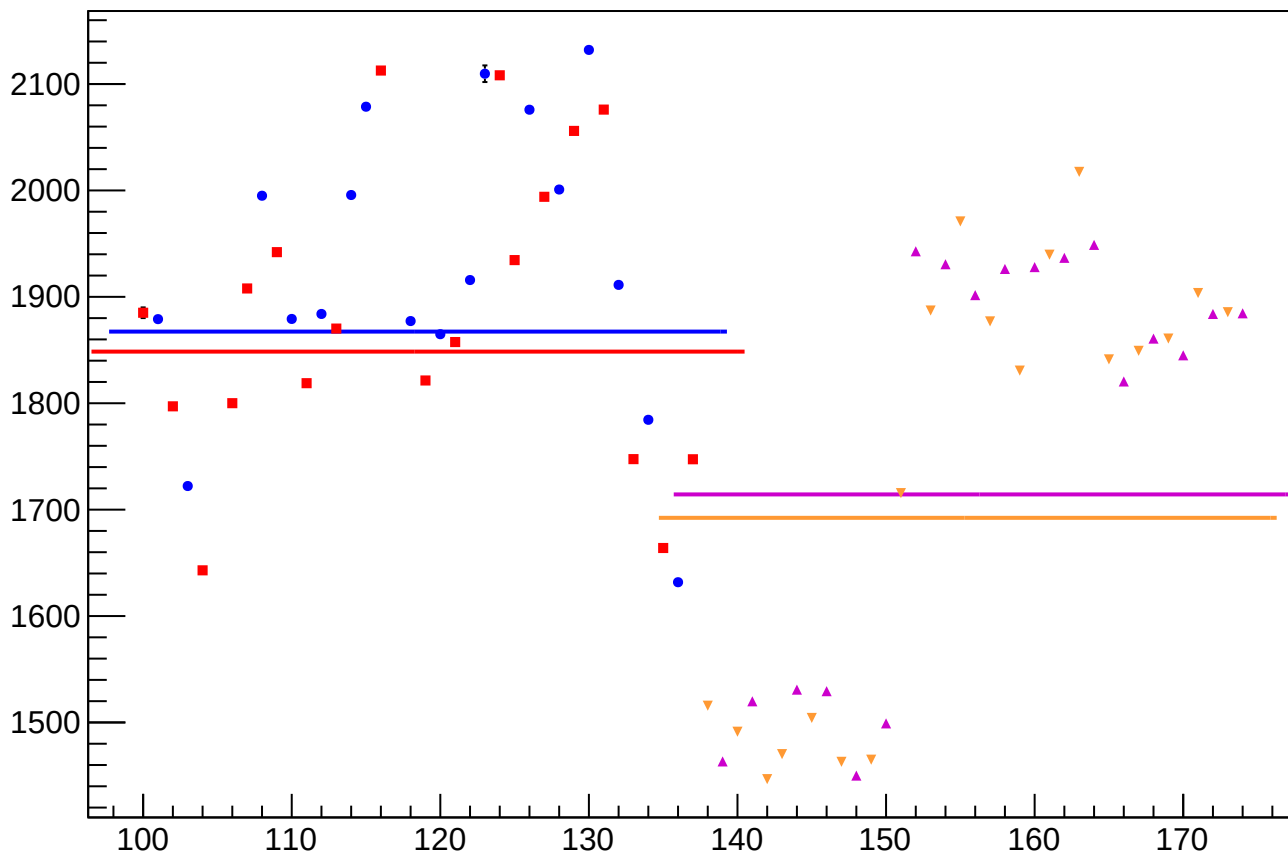
Right: 13.200+/-0.500 χ^2/NDF : 1608.9/35

In: 5.933+/-0.390 χ^2/NDF : 1807.0/34

Out: 2.641+/-0.379 χ^2/NDF : 1303.0/37

All: 4.241+/-0.272 χ^2/NDF : 3146.8/72

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343+/-0.510 χ^2/NDF : 80926.4/16

Left Out: 1692.314+/-0.320 χ^2/NDF : 410312.3/18

Right Out: 1848.532+/-0.490 χ^2/NDF : 72527.3/18

Left In: 1714.315+/-0.327 χ^2/NDF : 386808.4/17

Left: 1703.061+/-0.229 χ^2/NDF : 799431.9/36

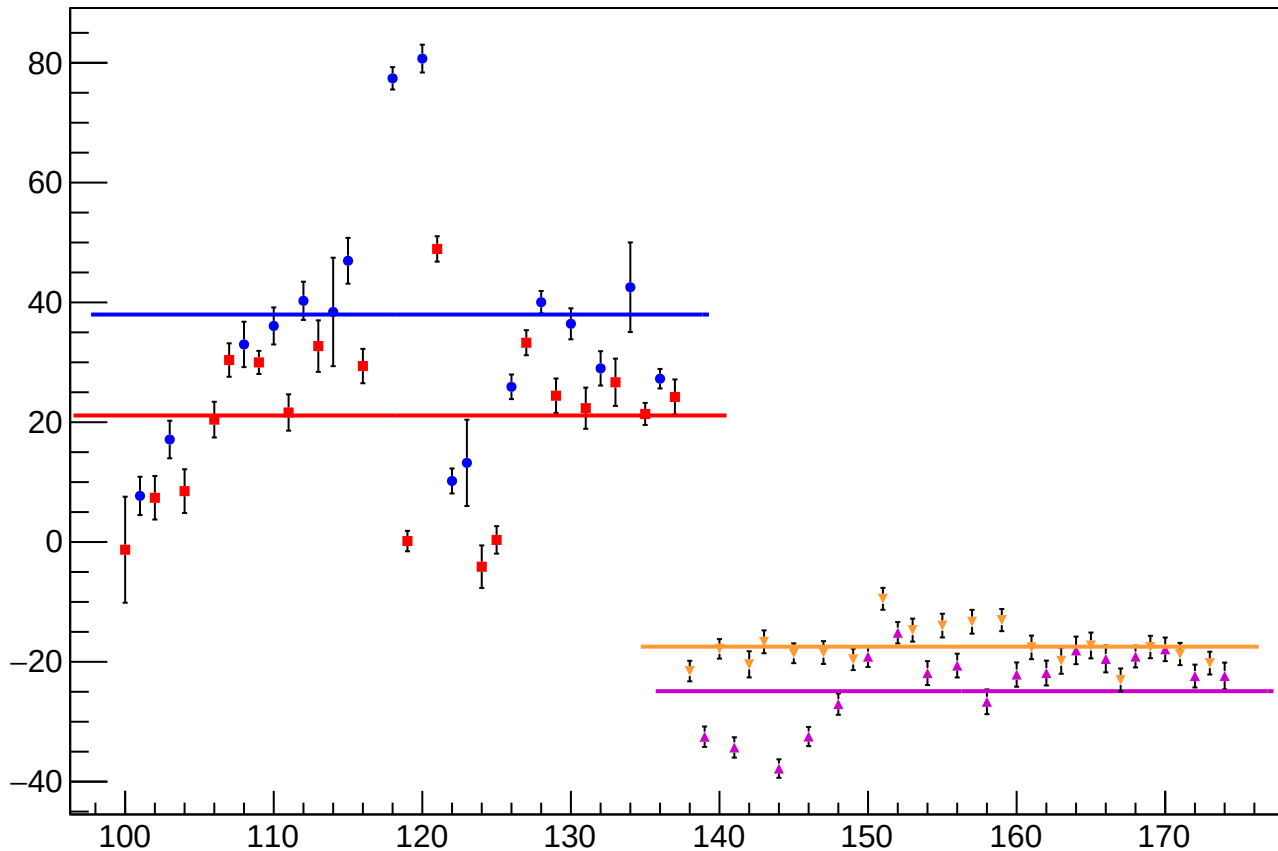
Right: 1857.561+/-0.354 χ^2/NDF : 154160.4/35

In: 1758.924+/-0.276 χ^2/NDF : 531455.9/34

Out: 1738.956+/-0.268 χ^2/NDF : 554055.2/37

All: 1748.661+/-0.192 χ^2/NDF : 1088211.3/72

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.469 ± 0.433 $\chi^2/\text{NDF}: 56.4/18$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -24.899 ± 0.443 $\chi^2/\text{NDF}: 237.4/17$

Left: -21.102 ± 0.309 $\chi^2/\text{NDF}: 437.9/36$

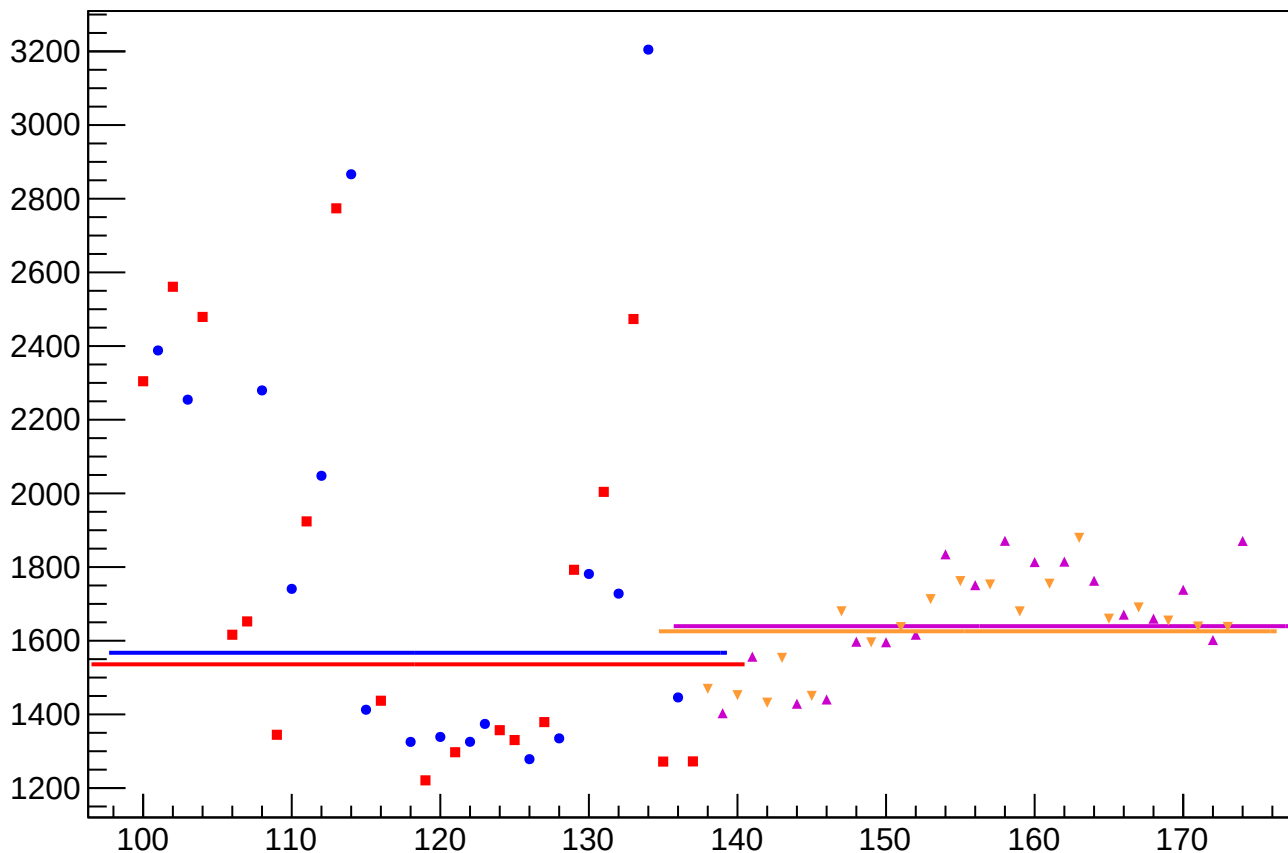
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.447 ± 0.364 $\chi^2/\text{NDF}: 8008.5/34$

Out: -4.497 ± 0.353 $\chi^2/\text{NDF}: 3301.9/37$

All: -4.473 ± 0.253 $\chi^2/\text{NDF}: 11310.4/72$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1625.618 $\pm$ 0.306 χ^2 /NDF: 145420.0/18

Right Out: 1535.967 $\pm$ 0.430 χ^2 /NDF: 882098.2/18

Left In: 1639.541 $\pm$ 0.313 χ^2 /NDF: 227358.8/17

Left: 1632.426 $\pm$ 0.219 χ^2 /NDF: 373790.6/36

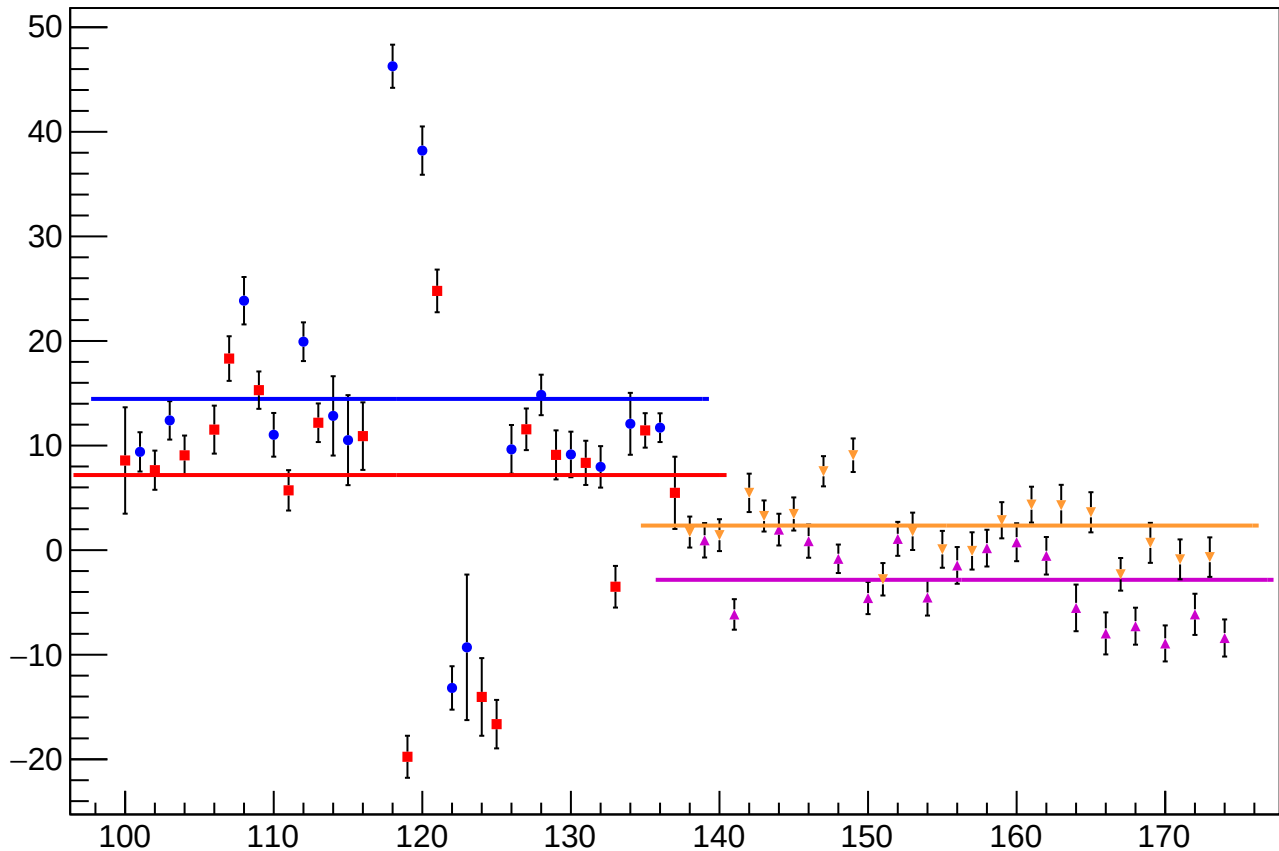
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1616.052 $\pm$ 0.257 χ^2 /NDF: 918132.1/34

Out: 1595.483 $\pm$ 0.249 χ^2 /NDF: 1056353.1/37

All: 1605.457 $\pm$ 0.179 χ^2 /NDF: 1977783.7/72

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.351 ± 0.386 $\chi^2/\text{NDF}: 67.3/18$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -2.837 ± 0.399 $\chi^2/\text{NDF}: 84.6/17$

Left: -0.158 ± 0.277 $\chi^2/\text{NDF}: 239.3/36$

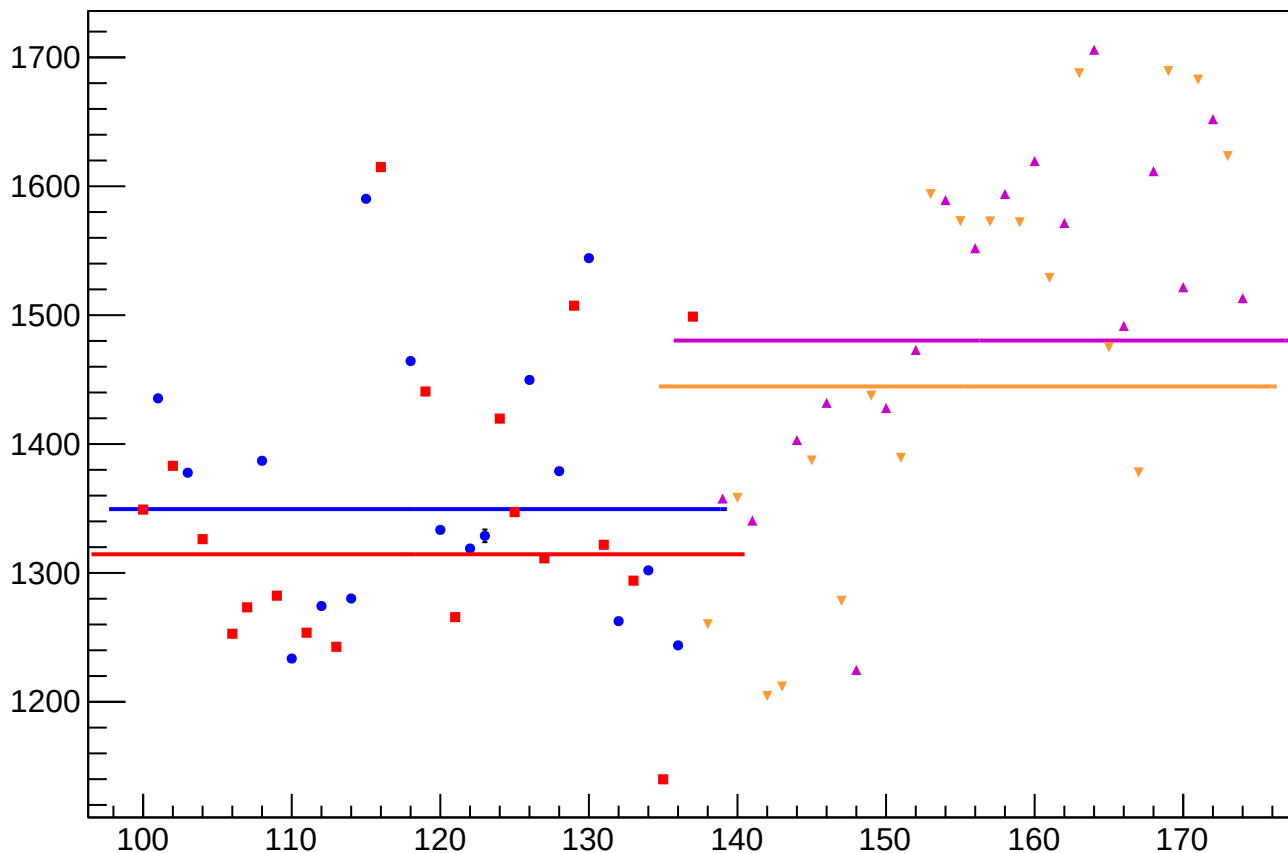
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 3.520 ± 0.317 $\chi^2/\text{NDF}: 1371.9/34$

Out: 4.180 ± 0.304 $\chi^2/\text{NDF}: 622.3/37$

All: 3.864 ± 0.220 $\chi^2/\text{NDF}: 1996.4/72$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1444.692 $\pm$ 0.273 χ^2 /NDF:319730.8/18

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1480.321 $\pm$ 0.282 χ^2 /NDF:194459.8/17

Left: 1461.924 $\pm$ 0.196 χ^2 /NDF: 522432.4/36

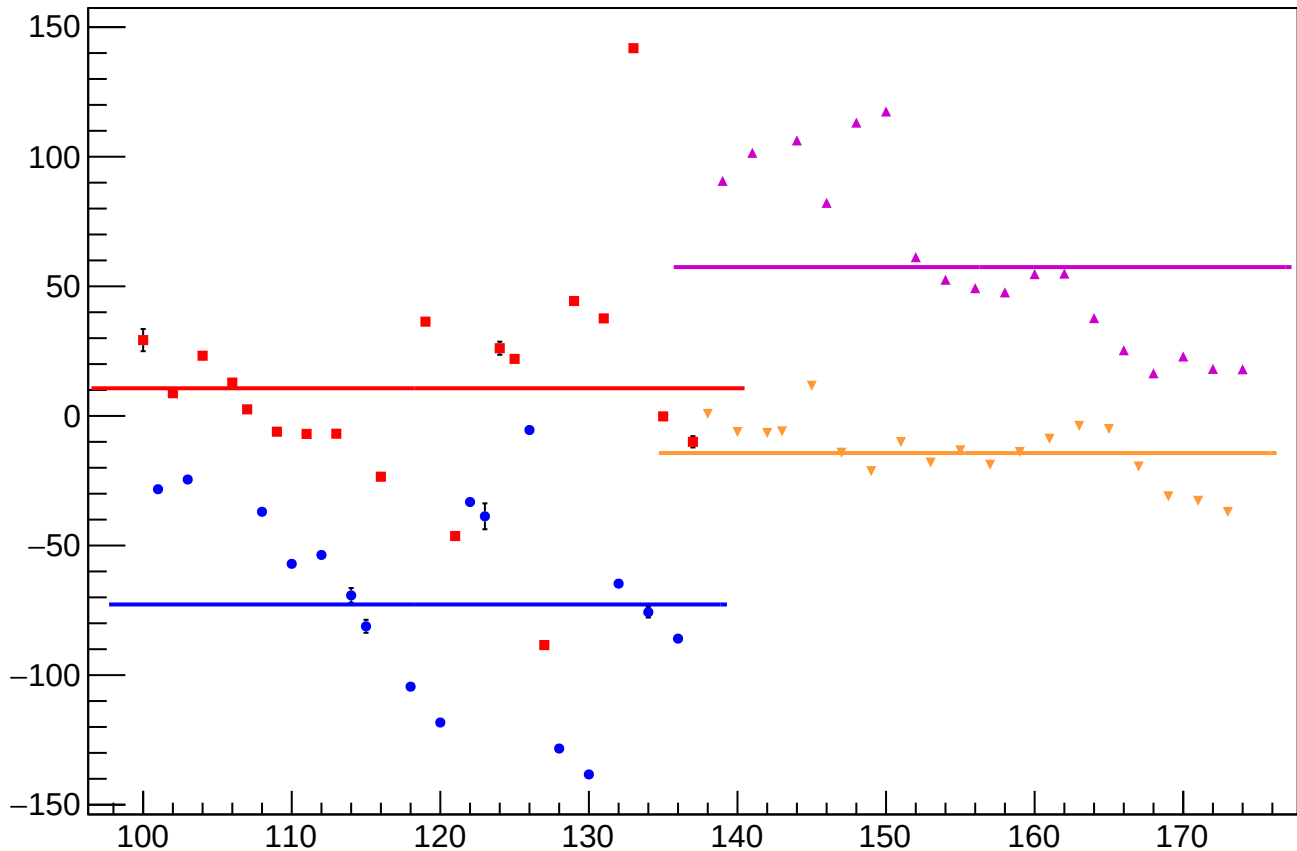
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1432.251 $\pm$ 0.224 χ^2 /NDF:338186.0/34

Out: 1395.380 $\pm$ 0.215 χ^2 /NDF:486879.4/37

All: 1413.048 $\pm$ 0.155 χ^2 /NDF: 839141.5/72

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -14.323 +/- 0.243 χ^2/NDF : 2448.6/18

Right Out: 10.671 +/- 0.352 χ^2/NDF : 18171.0/18

Left In: 57.423 +/- 0.247 χ^2/NDF : 18275.0/17

Left: 20.930 +/- 0.173 χ^2/NDF : 63530.1/36

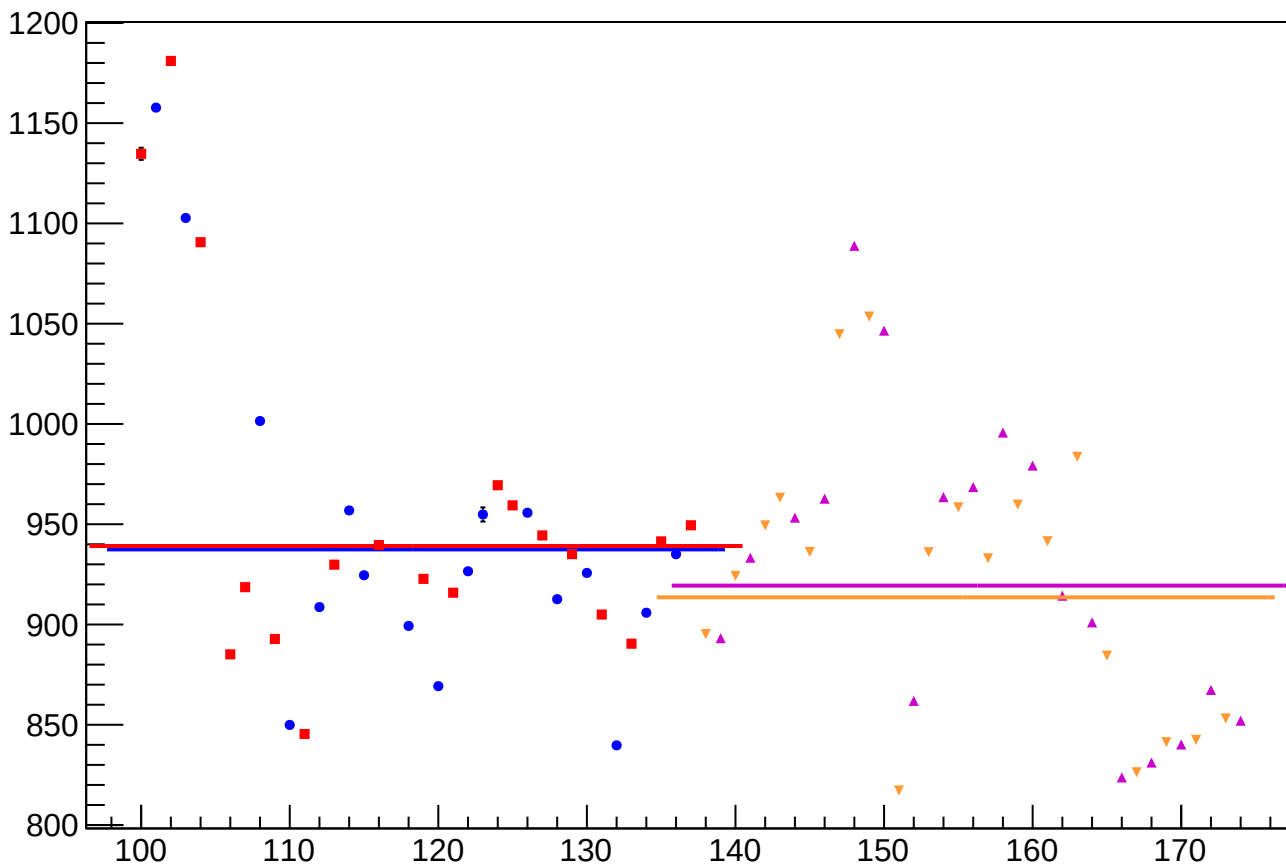
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 16.058 +/- 0.204 χ^2/NDF : 117995.3/34

Out: -6.263 +/- 0.200 χ^2/NDF : 24029.0/37

All: 4.666 +/- 0.143 χ^2/NDF : 148117.8/72

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 $\chi^2/\text{NDF}: 98307.6/16$

Left Out: 913.552 ± 0.172 $\chi^2/\text{NDF}: 148603.2/18$

Right Out: 939.140 ± 0.249 $\chi^2/\text{NDF}: 90253.2/18$

Left In: 919.388 ± 0.175 $\chi^2/\text{NDF}: 164775.2/17$

Left: 916.419 ± 0.123 $\chi^2/\text{NDF}: 313944.9/36$

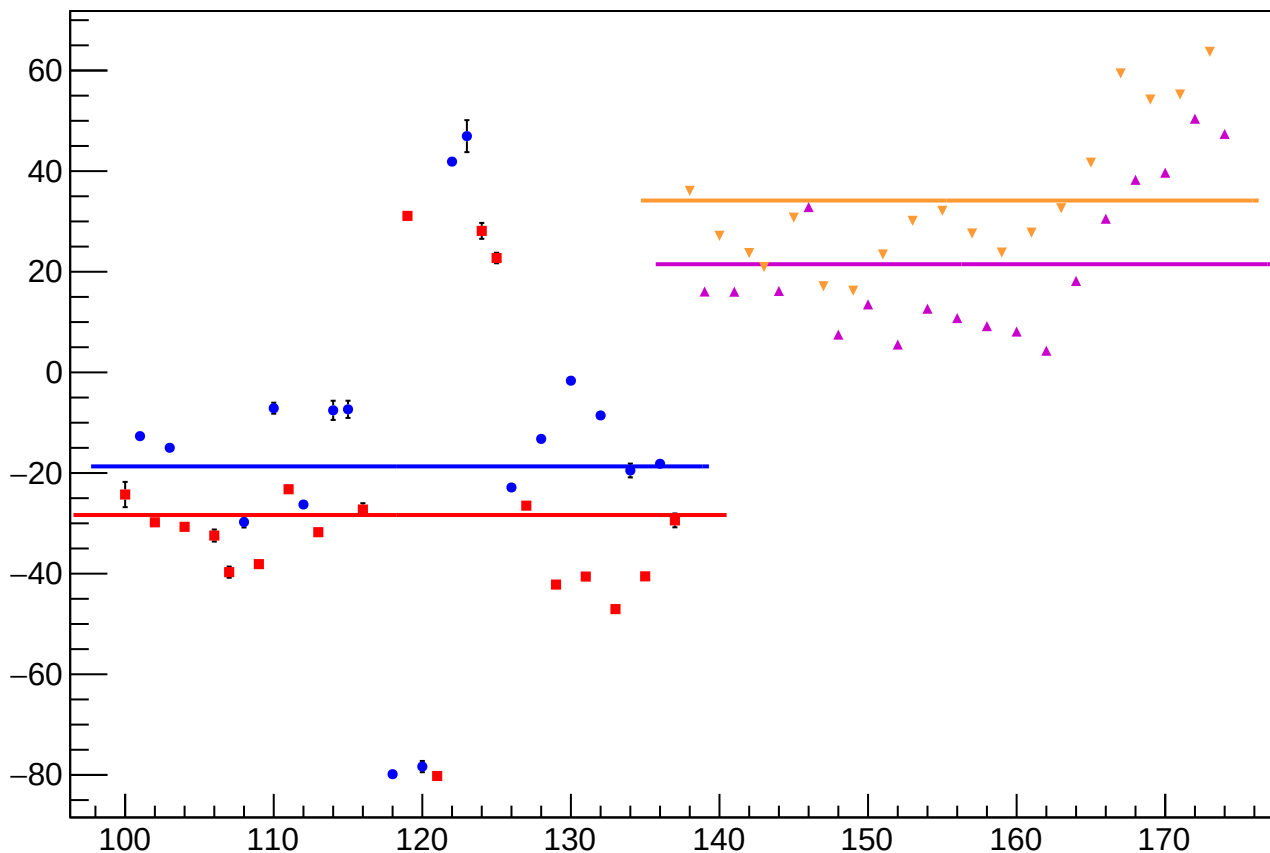
Right: 938.320 ± 0.179 $\chi^2/\text{NDF}: 188583.1/35$

In: 925.129 ± 0.144 $\chi^2/\text{NDF}: 266474.2/34$

Out: 921.803 ± 0.141 $\chi^2/\text{NDF}: 246003.5/37$

All: 923.432 ± 0.101 $\chi^2/\text{NDF}: 512748.2/72$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 34.156 ± 0.190 $\chi^2/\text{NDF}: 5781.9/18$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 21.498 ± 0.195 $\chi^2/\text{NDF}: 5428.3/17$

Left: 27.974 ± 0.136 $\chi^2/\text{NDF}: 13368.2/36$

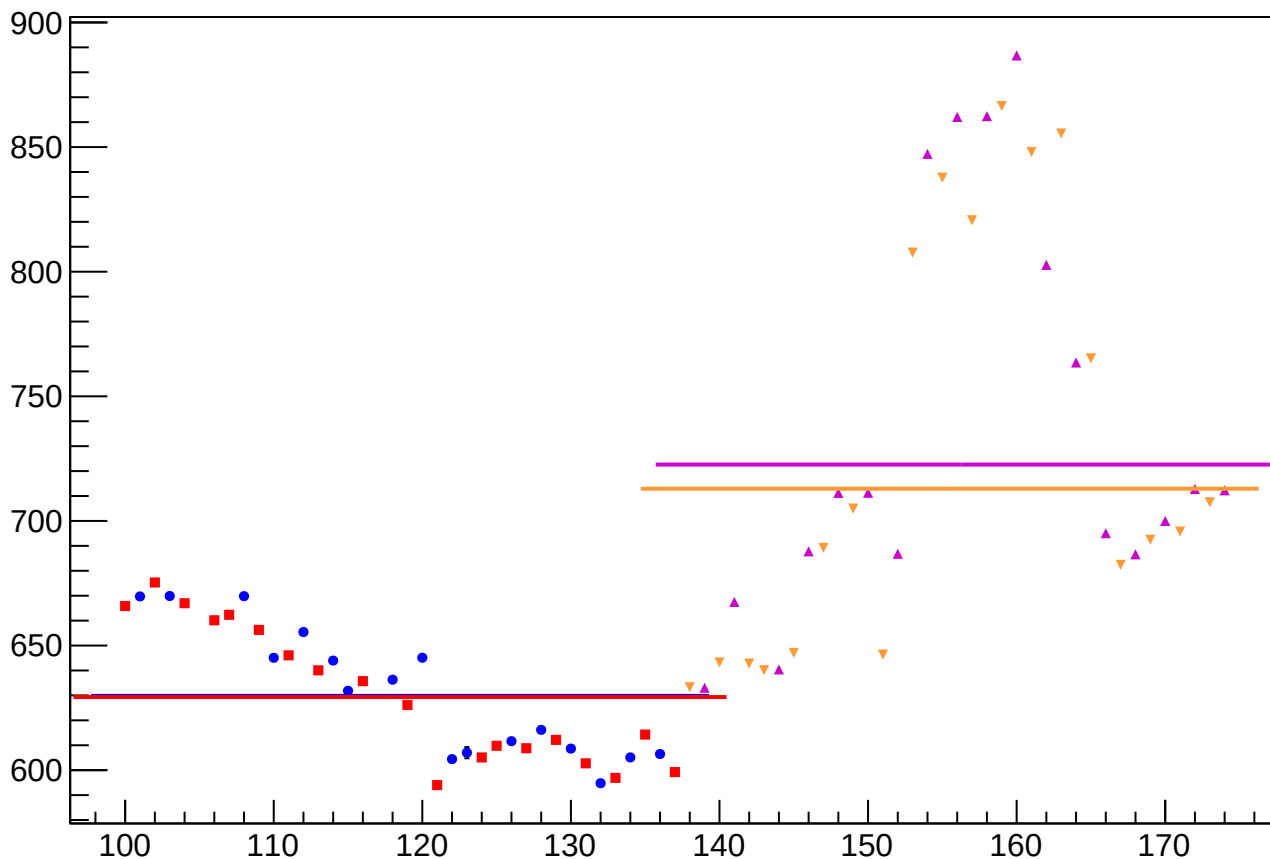
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 5.741 ± 0.152 $\chi^2/\text{NDF}: 35101.1/34$

Out: 9.442 ± 0.148 $\chi^2/\text{NDF}: 60892.9/37$

All: 7.640 ± 0.106 $\chi^2/\text{NDF}: 96298.3/72$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 712.928+/-0.135 χ^2/NDF : 332278.4/18

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 722.613+/-0.138 χ^2/NDF : 278194.3/17

Left: 717.658+/-0.096 χ^2/NDF : 612999.4/36

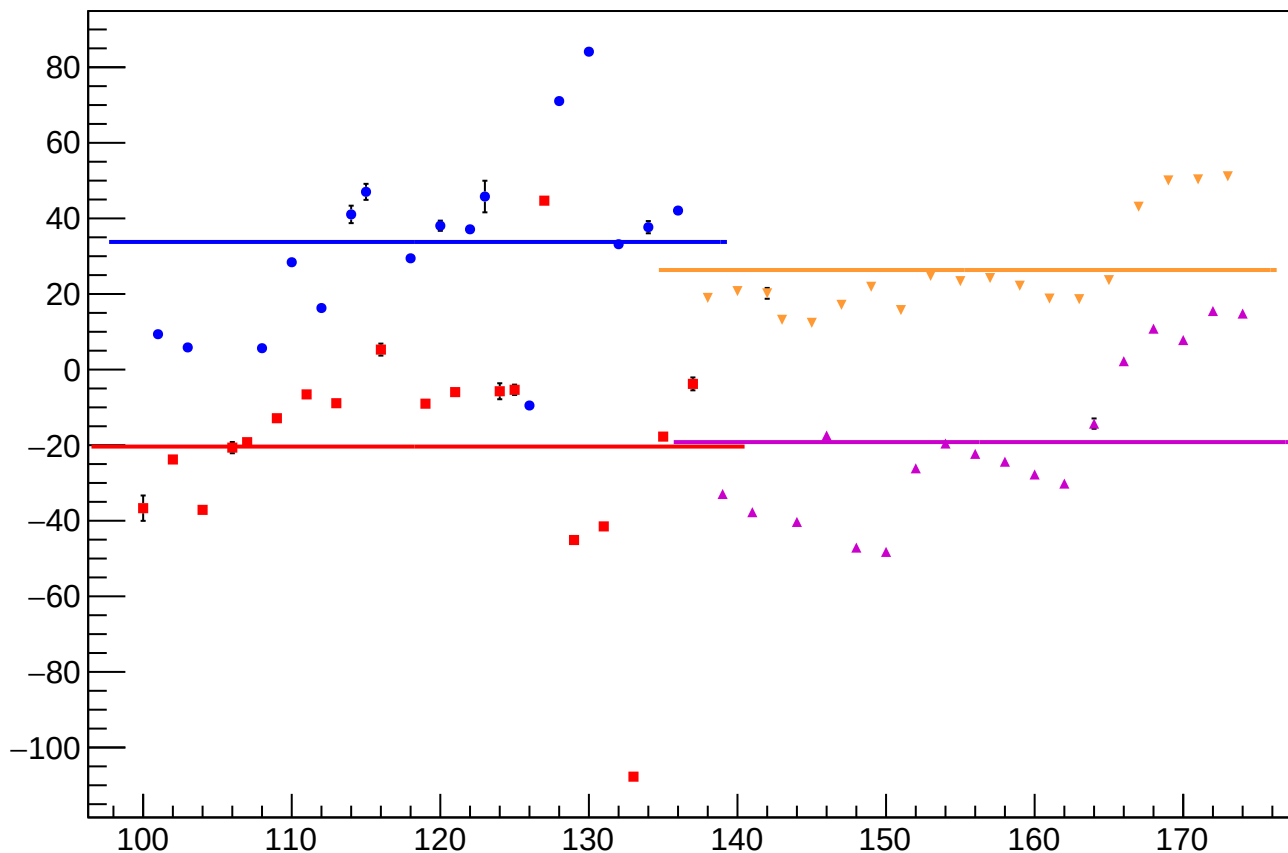
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 686.223+/-0.107 χ^2/NDF : 479285.8/34

Out: 679.877+/-0.105 χ^2/NDF : 510209.5/37

All: 682.967+/-0.075 χ^2/NDF : 991284.3/72

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773 $\pm$ 0.300 χ^2 /NDF: 6487.9/16

Left Out: 26.348 $\pm$ 0.271 χ^2 /NDF:2235.1/18

Right Out: -20.375 $\pm$ 0.293 χ^2 /NDF: 11287.7/18

Left In: -19.185 $\pm$ 0.275 χ^2 /NDF:5617.9/17

Left: 3.895 $\pm$ 0.193 χ^2 /NDF: 21774.8/36

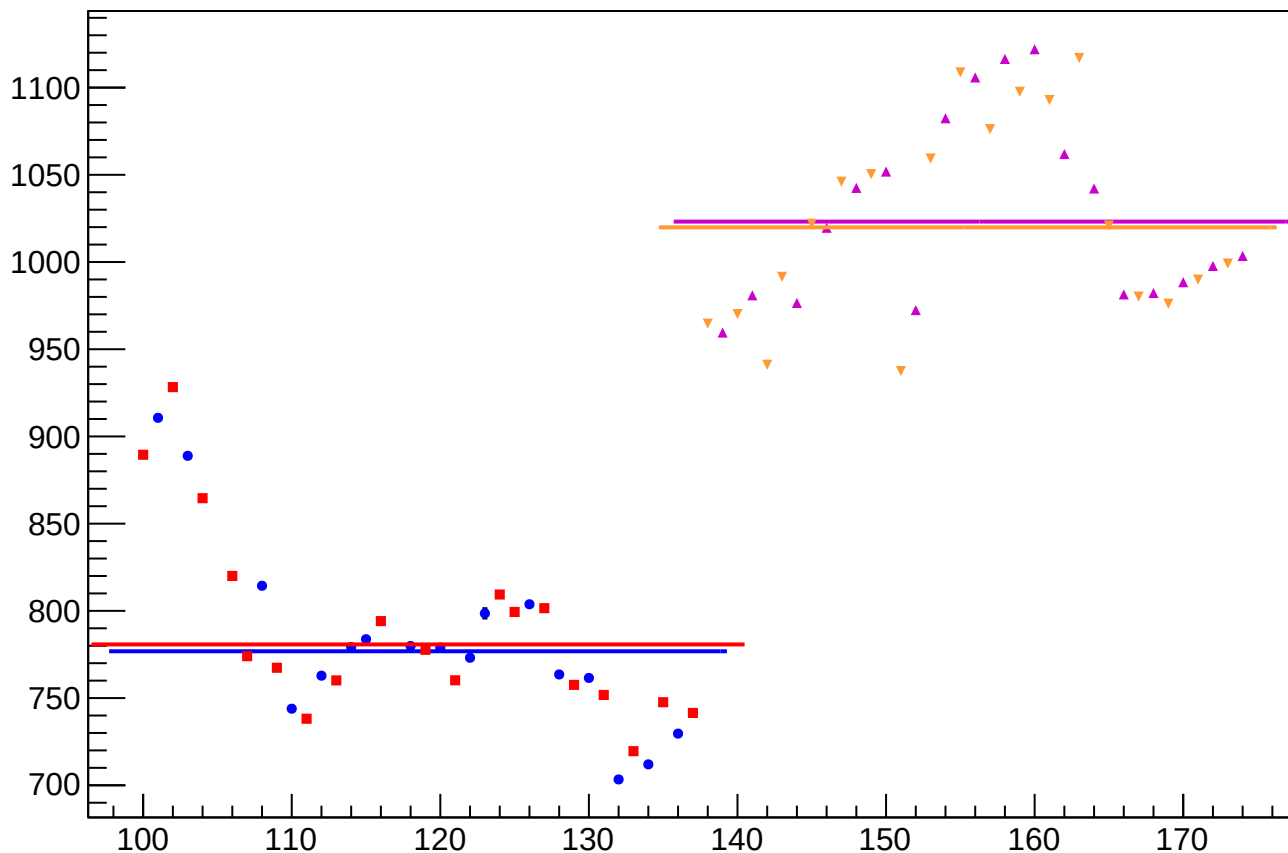
Right: 6.025 $\pm$ 0.209 χ^2 /NDF: 34481.3/35

In: 4.981 $\pm$ 0.203 χ^2 /NDF:29059.4/34

Out: 4.770 $\pm$ 0.199 χ^2 /NDF:27252.1/37

All: 4.873 $\pm$ 0.142 χ^2 /NDF: 56312.0/72

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1019.892 $\pm$ 0.192 χ^2 /NDF: 81995.6/18

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1023.174 $\pm$ 0.194 χ^2 /NDF: 67751.0/17

Left: 1021.510 $\pm$ 0.136 χ^2 /NDF: 149891.2/36

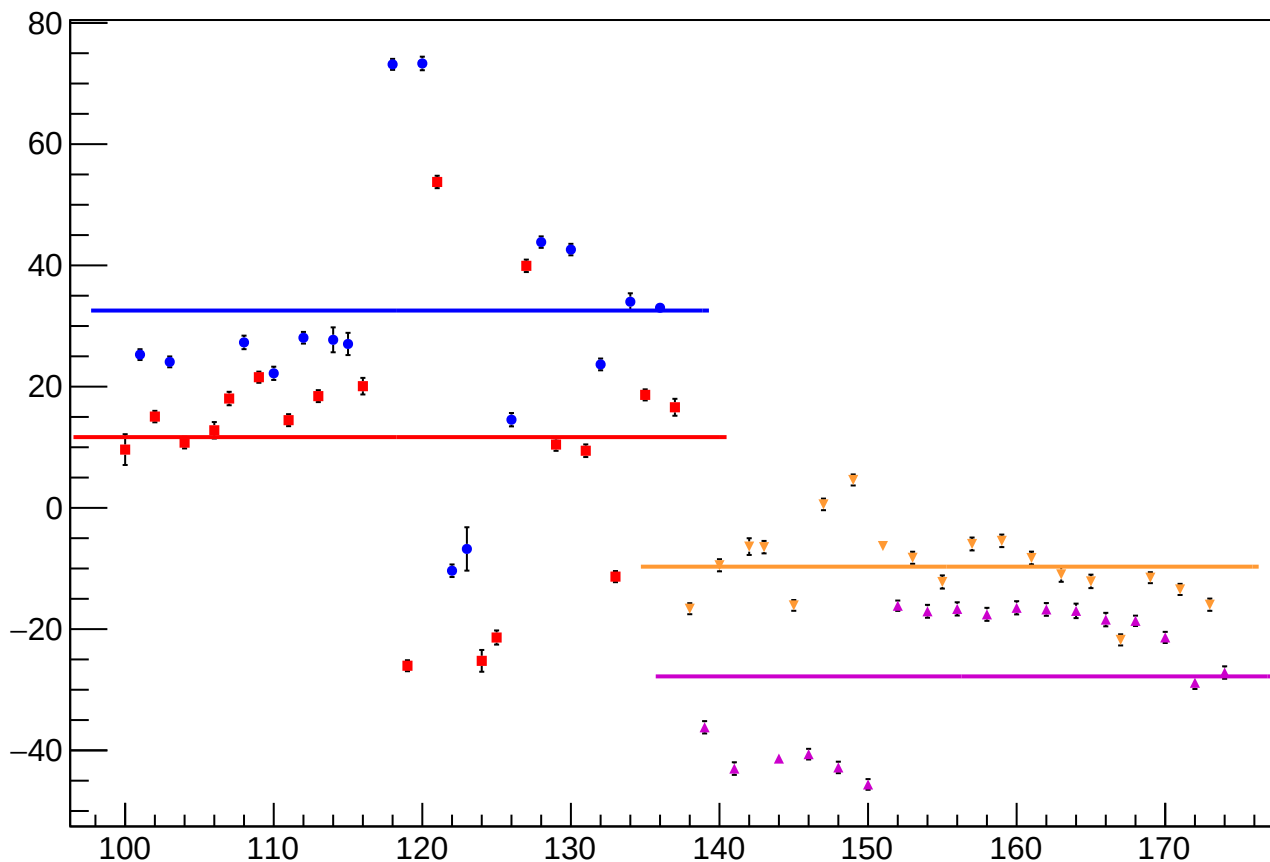
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 910.764 $\pm$ 0.143 χ^2 /NDF: 868881.1/34

Out: 909.448 $\pm$ 0.141 χ^2 /NDF: 858732.9/37

All: 910.094 $\pm$ 0.100 χ^2 /NDF: 1727656.9/72

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -9.696 ± 0.227 χ^2/NDF : 781.1/18

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -27.797 ± 0.231 χ^2/NDF : 2438.2/17

Left: -18.593 ± 0.162 χ^2/NDF : 6332.5/36

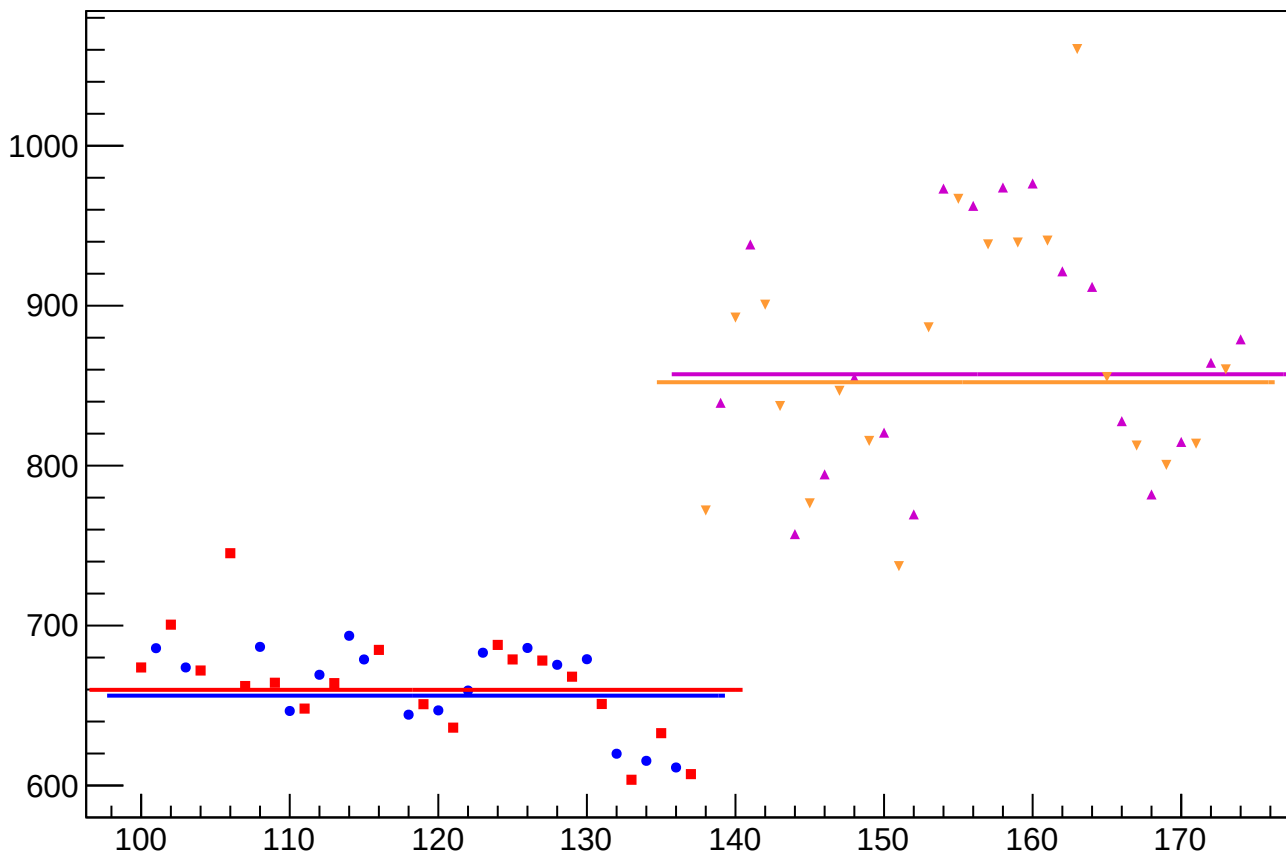
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -0.301 ± 0.171 χ^2/NDF : 39519.4/34

Out: 0.109 ± 0.167 χ^2/NDF : 11189.7/37

All: -0.092 ± 0.119 χ^2/NDF : 50712.1/72

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2/NDF : 23569.6/16

Left Out: 852.153 $\pm$ 0.161 χ^2/NDF : 216192.5/18

Right Out: 659.813 $\pm$ 0.175 χ^2/NDF : 28325.7/18

Left In: 857.134 $\pm$ 0.164 χ^2/NDF : 200179.1/17

Left: 854.601 $\pm$ 0.115 χ^2/NDF : 416843.0/36

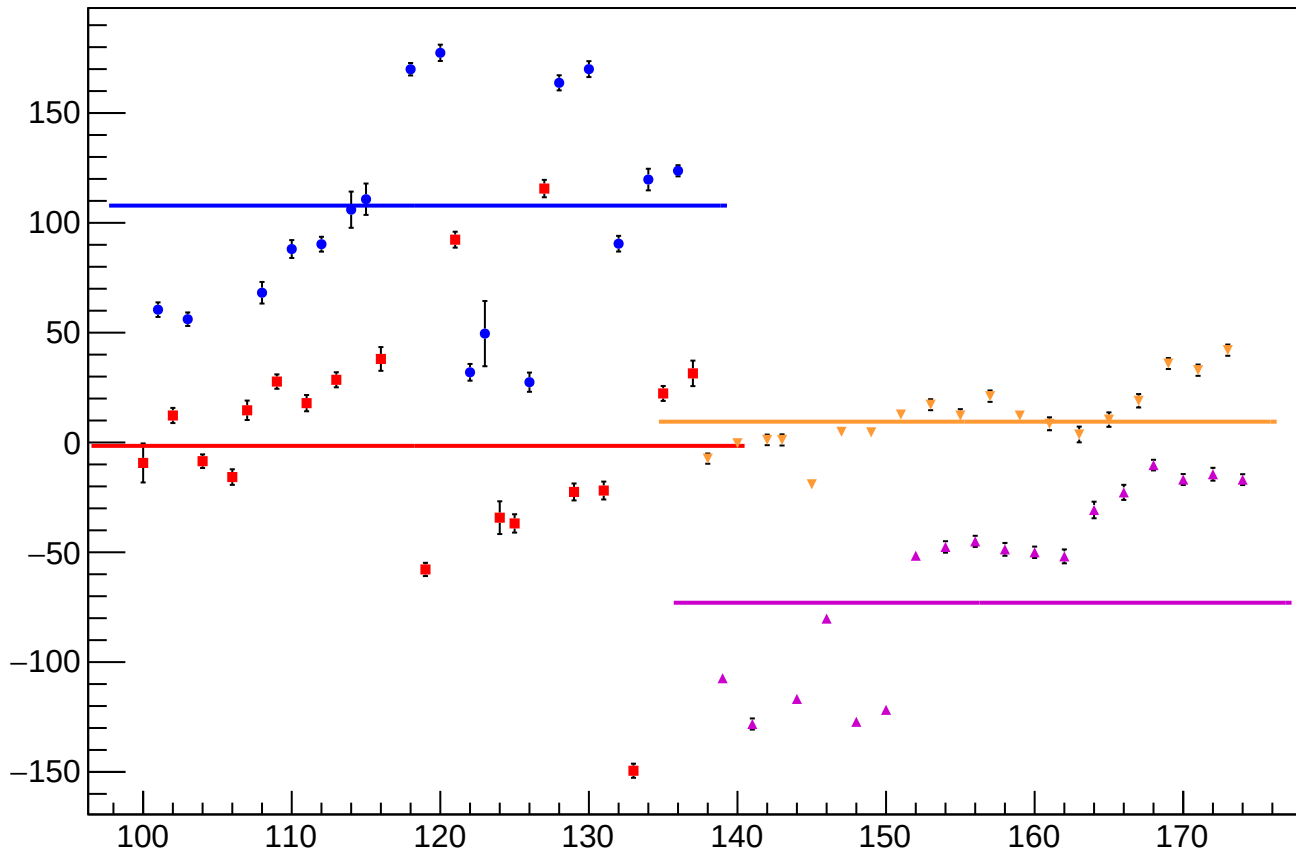
Right: 658.039 $\pm$ 0.125 χ^2/NDF : 52106.5/35

In: 765.575 $\pm$ 0.121 χ^2/NDF : 911367.7/34

Out: 763.897 $\pm$ 0.118 χ^2/NDF : 900845.8/37

All: 764.719 $\pm$ 0.084 χ^2/NDF : 1812312.1/72

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 9.469 ± 0.550 $\chi^2/\text{NDF}: 712.3/18$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -72.967 ± 0.555 $\chi^2/\text{NDF}: 5881.8/17$

Left: -31.375 ± 0.391 $\chi^2/\text{NDF}: 17732.4/36$

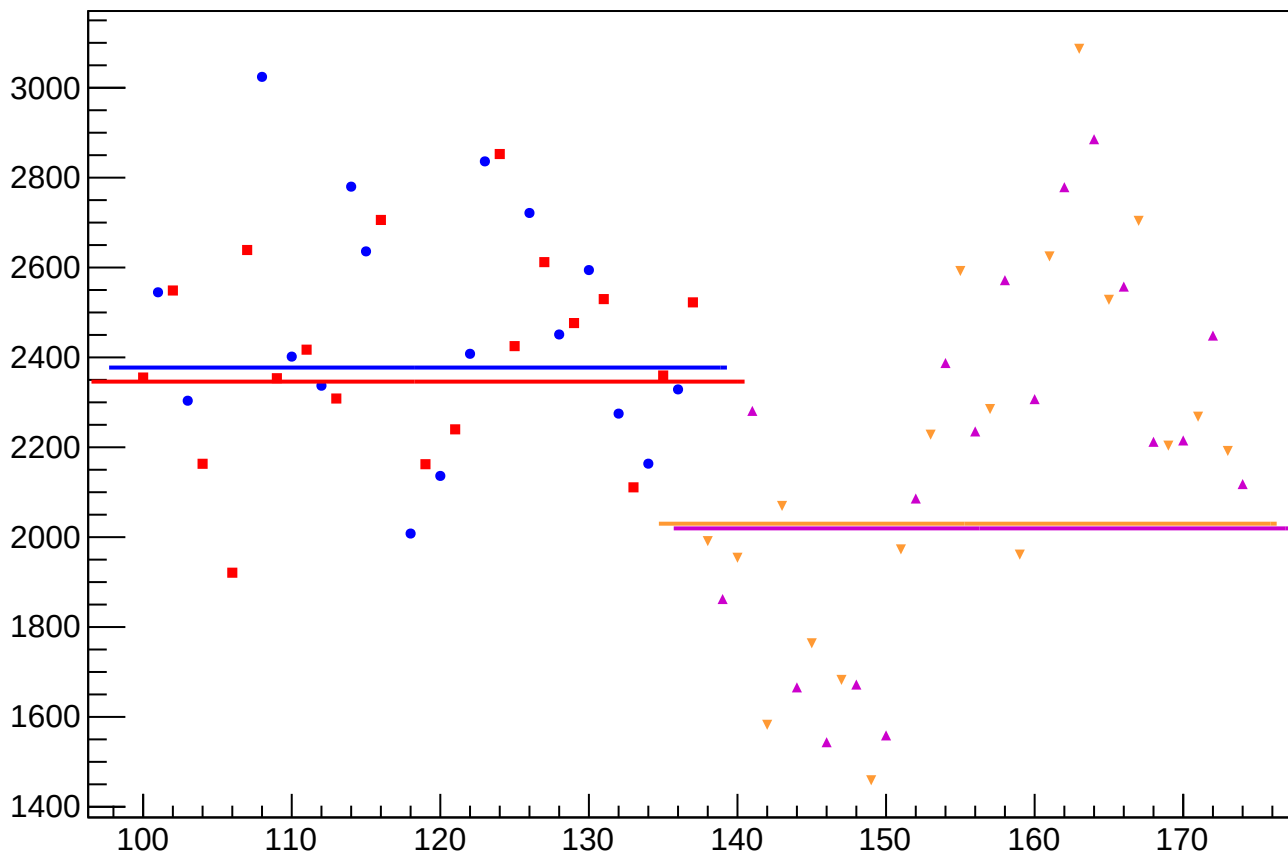
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -24.861 ± 0.475 $\chi^2/\text{NDF}: 36948.2/34$

Out: 6.394 ± 0.467 $\chi^2/\text{NDF}: 5348.0/37$

All: -8.950 ± 0.333 $\chi^2/\text{NDF}: 44497.4/72$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 $\pm$ 0.652 χ^2/NDF : 119648.6/16

Left Out: 2029.979 $\pm$ 0.389 χ^2/NDF : 961019.6/18

Right Out: 2346.121 $\pm$ 0.625 χ^2/NDF : 108257.3/18

Left In: 1919.519 $\pm$ 0.392 χ^2/NDF : 970705.3/17

Left: 2024.796 $\pm$ 0.276 χ^2/NDF : 1932083.6/36

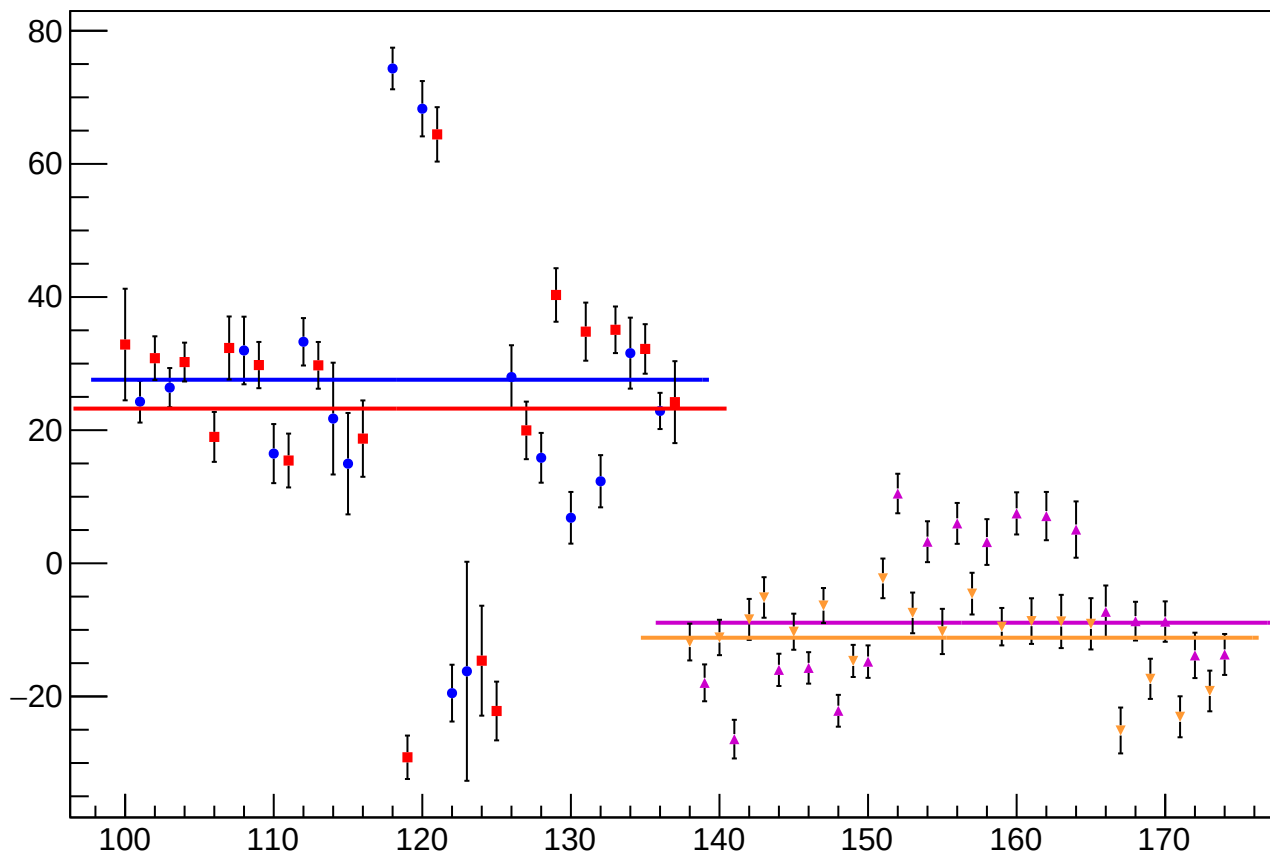
Right: 2361.109 $\pm$ 0.451 χ^2/NDF : 229108.5/35

In: 2114.737 $\pm$ 0.336 χ^2/NDF : 1311770.1/34

Out: 2118.260 $\pm$ 0.330 χ^2/NDF : 1253929.5/37

All: 2116.530 $\pm$ 0.235 χ^2/NDF : 2565755.5/72

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.179 ± 0.691 $\chi^2/\text{NDF}: 69.2/18$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.926 ± 0.696 $\chi^2/\text{NDF}: 256.6/17$

Left: -10.060 ± 0.490 $\chi^2/\text{NDF}: 331.0/36$

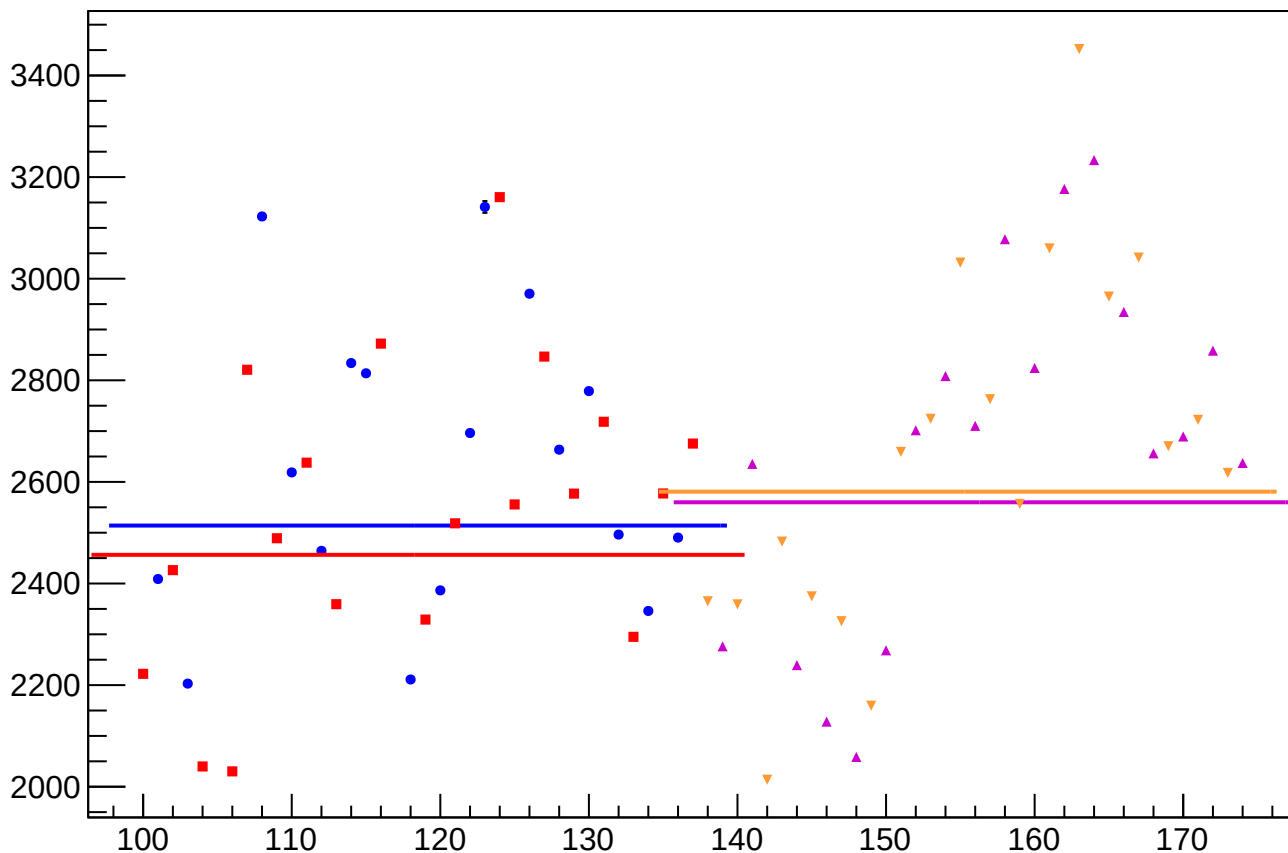
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 3.394 ± 0.566 $\chi^2/\text{NDF}: 1705.2/34$

Out: 1.115 ± 0.554 $\chi^2/\text{NDF}: 1513.4/37$

All: 2.230 ± 0.396 $\chi^2/\text{NDF}: 3226.9/72$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 ± 0.689 $\chi^2/\text{NDF}: 120961.3/16$

Left Out: 2580.824 ± 0.489 $\chi^2/\text{NDF}: 431052.4/18$

Right Out: 2456.460 ± 0.655 $\chi^2/\text{NDF}: 149732.7/18$

Left In: 2559.881 ± 0.492 $\chi^2/\text{NDF}: 471240.2/17$

Left: 2570.425 ± 0.347 $\chi^2/\text{NDF}: 903205.0/36$

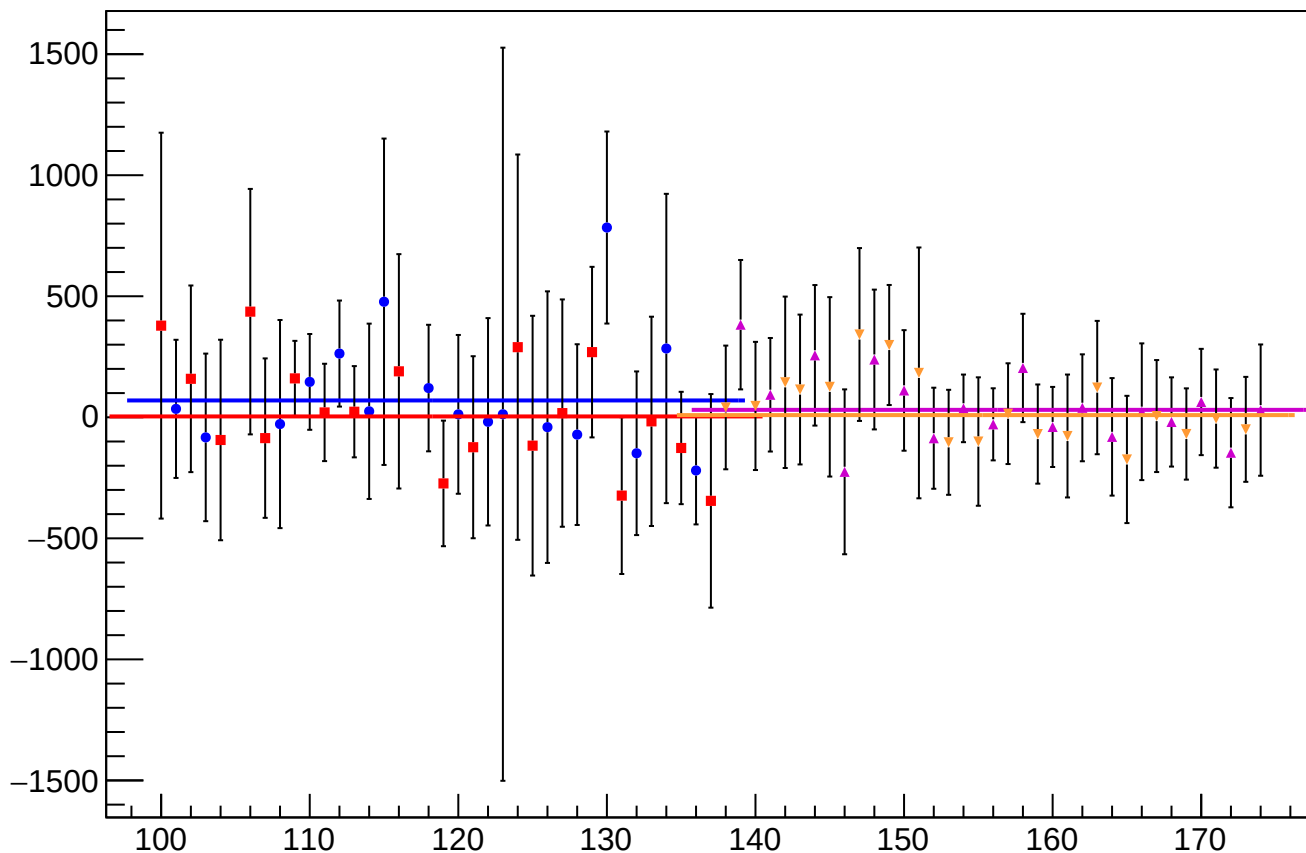
Right: 2483.827 ± 0.475 $\chi^2/\text{NDF}: 274364.7/35$

In: 2544.425 ± 0.400 $\chi^2/\text{NDF}: 595125.6/34$

Out: 2536.407 ± 0.392 $\chi^2/\text{NDF}: 603925.5/37$

All: 2540.328 ± 0.280 $\chi^2/\text{NDF}: 1199255.9/72$

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 9.036 $\pm$ 57.630 χ^2 /NDF:4.4/18

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 30.767 $\pm$ 50.632 χ^2 /NDF:5.8/17

Left: 21.300 $\pm$ 38.037 χ^2 /NDF: 10.2/36

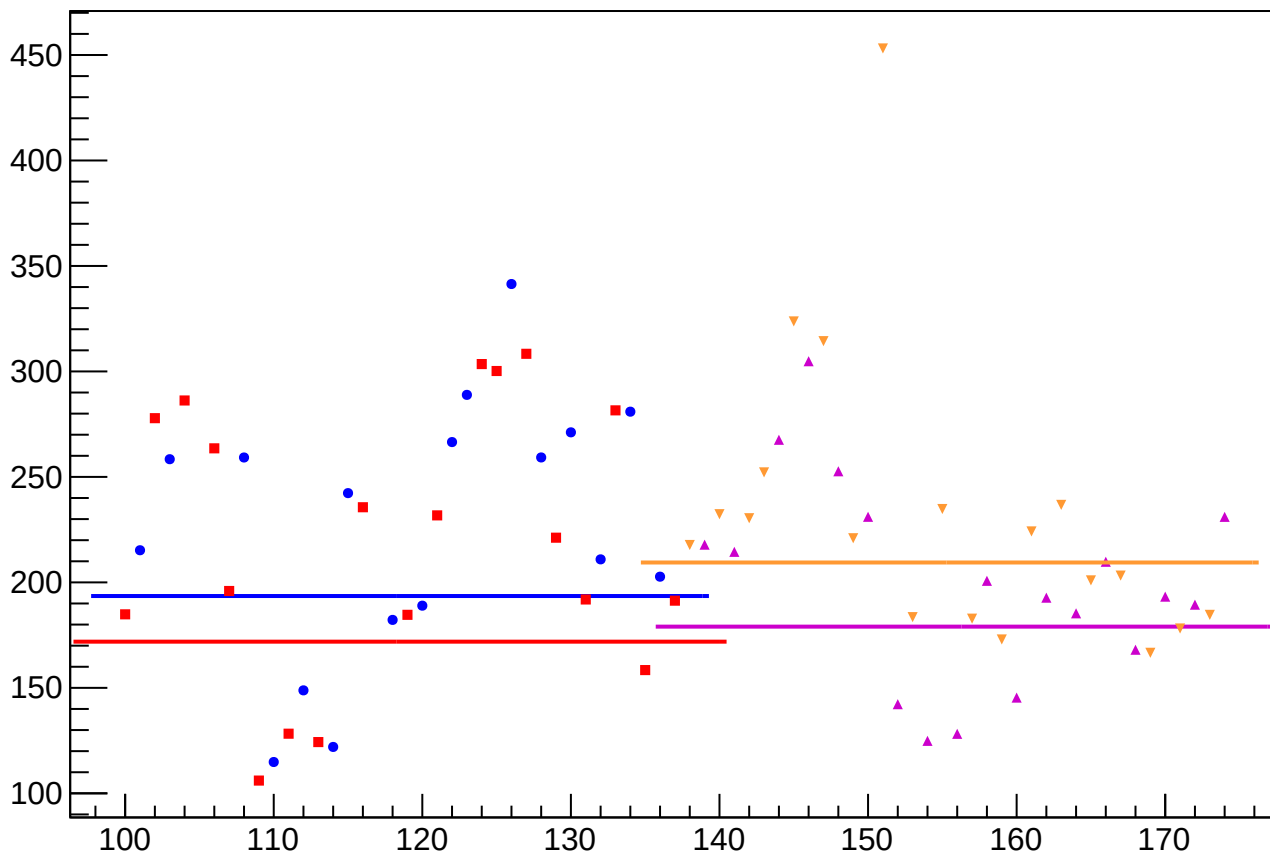
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 42.065 $\pm$ 42.632 χ^2 /NDF:13.3/34

Out: 6.824 $\pm$ 44.486 χ^2 /NDF:10.8/37

All: 25.194 $\pm$ 30.780 χ^2 /NDF: 24.4/72

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533+/-0.056 χ^2/NDF : 1010428.2/16

Left Out: 209.428+/-0.041 χ^2/NDF :1221849.6/18

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 179.024+/-0.036 χ^2/NDF :1588022.6/17

Left: 192.269+/-0.027 χ^2/NDF : 3124031.9/36

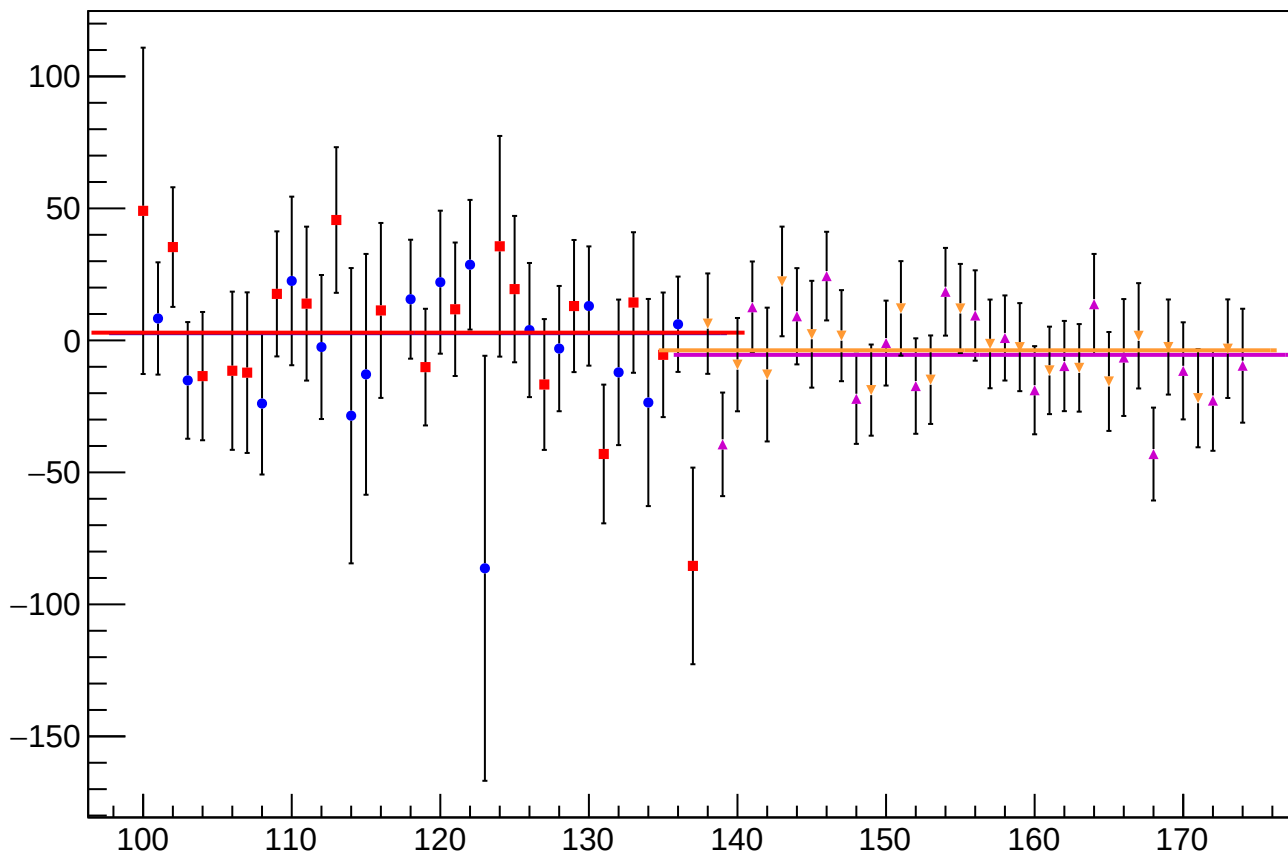
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 183.247+/-0.030 χ^2/NDF :2646247.1/34

Out: 194.262+/-0.031 χ^2/NDF :3141455.8/37

All: 188.520+/-0.022 χ^2/NDF : 5851624.8/72

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16

Left Out: -3.758 $\pm$ 4.159 χ^2 /NDF:7.0/18

Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18

Left In: -5.474 $\pm$ 4.202 χ^2 /NDF:19.6/17

Left: -4.607 $\pm$ 2.956 χ^2 /NDF: 26.6/36

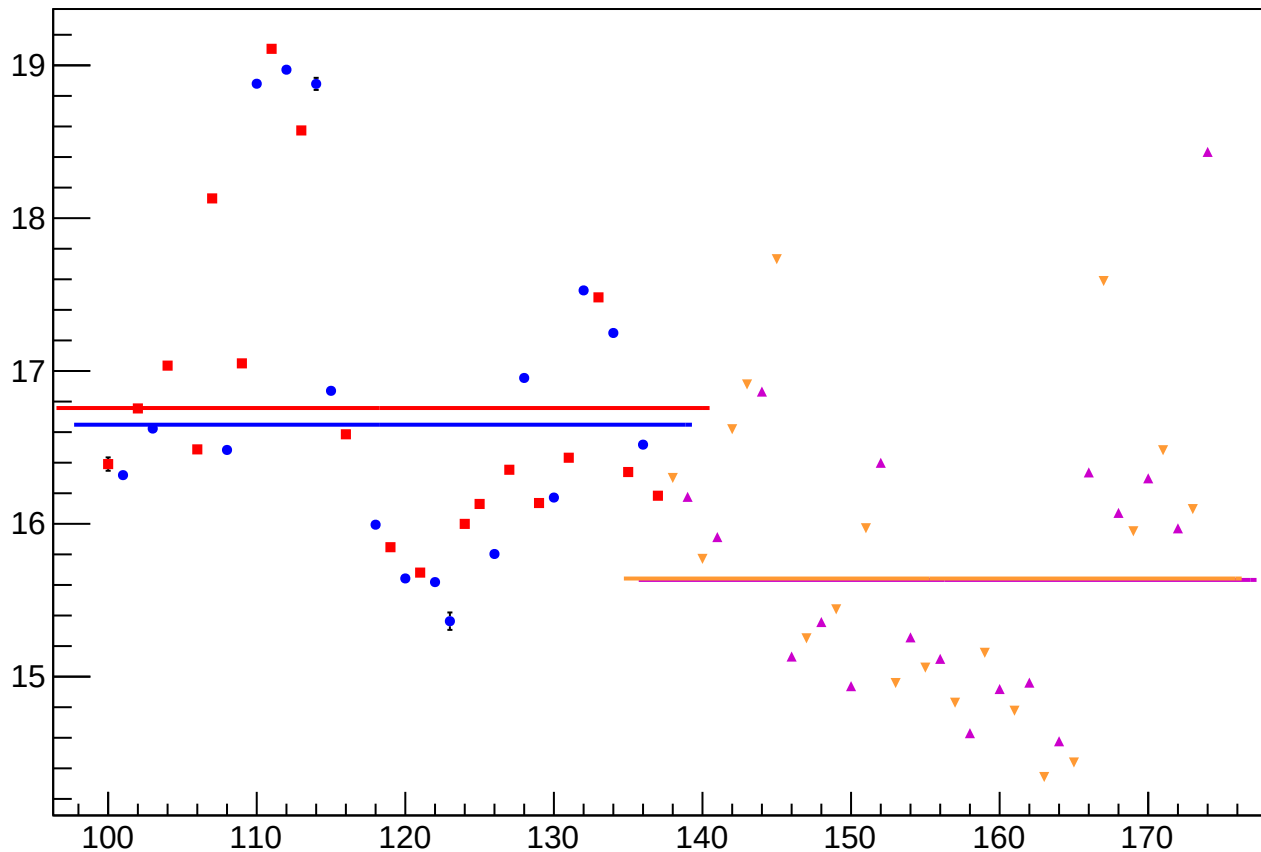
Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35

In: -3.015 $\pm$ 3.517 χ^2 /NDF:27.5/34

Out: -1.719 $\pm$ 3.467 χ^2 /NDF:25.5/37

All: -2.358 $\pm$ 2.469 χ^2 /NDF: 53.1/72

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 $\pm$ 0.005 χ^2 /NDF: 42566.9/16

Left Out: 15.642 $\pm$ 0.003 χ^2 /NDF:99196.1/18

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.633 $\pm$ 0.003 χ^2 /NDF:84518.7/17

Left: 15.638 $\pm$ 0.002 χ^2 /NDF: 183719.5/36

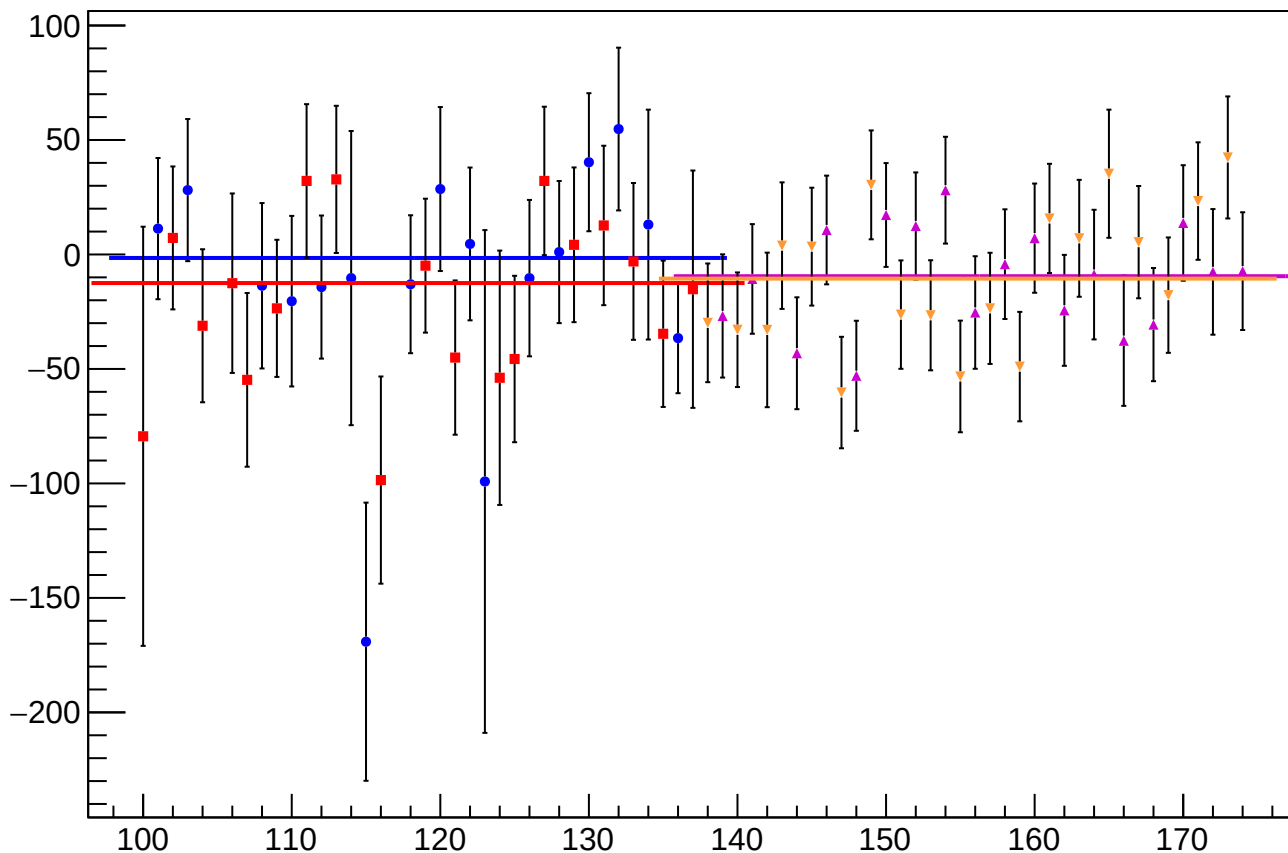
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.937 $\pm$ 0.002 χ^2 /NDF:162092.3/34

Out: 15.982 $\pm$ 0.002 χ^2 /NDF:183035.7/37

All: 15.960 $\pm$ 0.002 χ^2 /NDF: 345294.6/72

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 χ^2/NDF : 17.6/16

Left Out: -10.545 ± 5.811 χ^2/NDF : 26.9/18

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -9.500 ± 5.841 χ^2/NDF : 15.1/17

Left: -10.025 ± 4.120 χ^2/NDF : 42.0/36

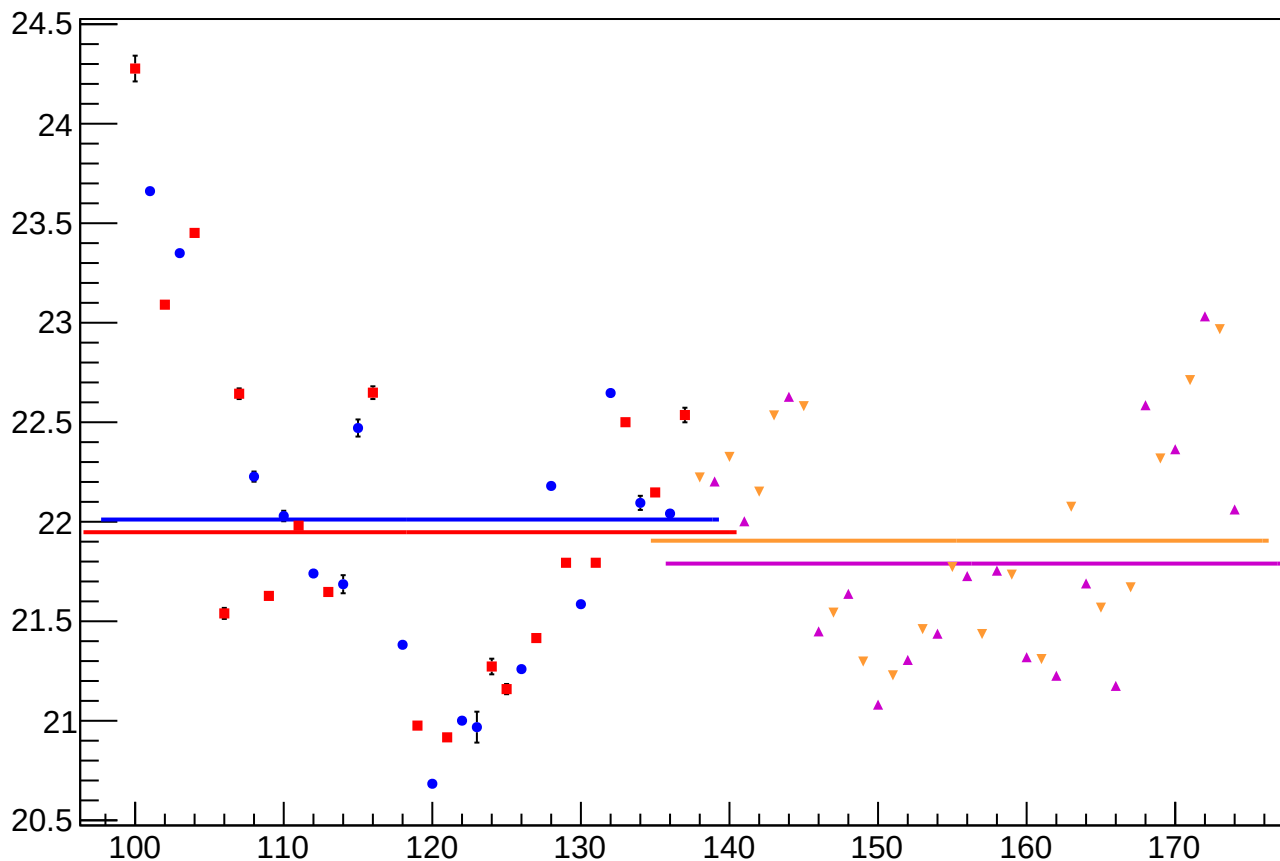
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.935 ± 4.811 χ^2/NDF : 33.3/34

Out: -11.189 ± 4.743 χ^2/NDF : 42.5/37

All: -9.092 ± 3.378 χ^2/NDF : 76.2/72

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011+/-0.006 χ^2/NDF : 17546.9/16

Left Out: 21.905+/-0.004 χ^2/NDF :15857.7/18

Right Out: 21.947+/-0.006 χ^2/NDF : 16592.7/18

Left In: 21.790+/-0.004 χ^2/NDF :17009.9/17

Left: 21.848+/-0.003 χ^2/NDF : 33257.5/36

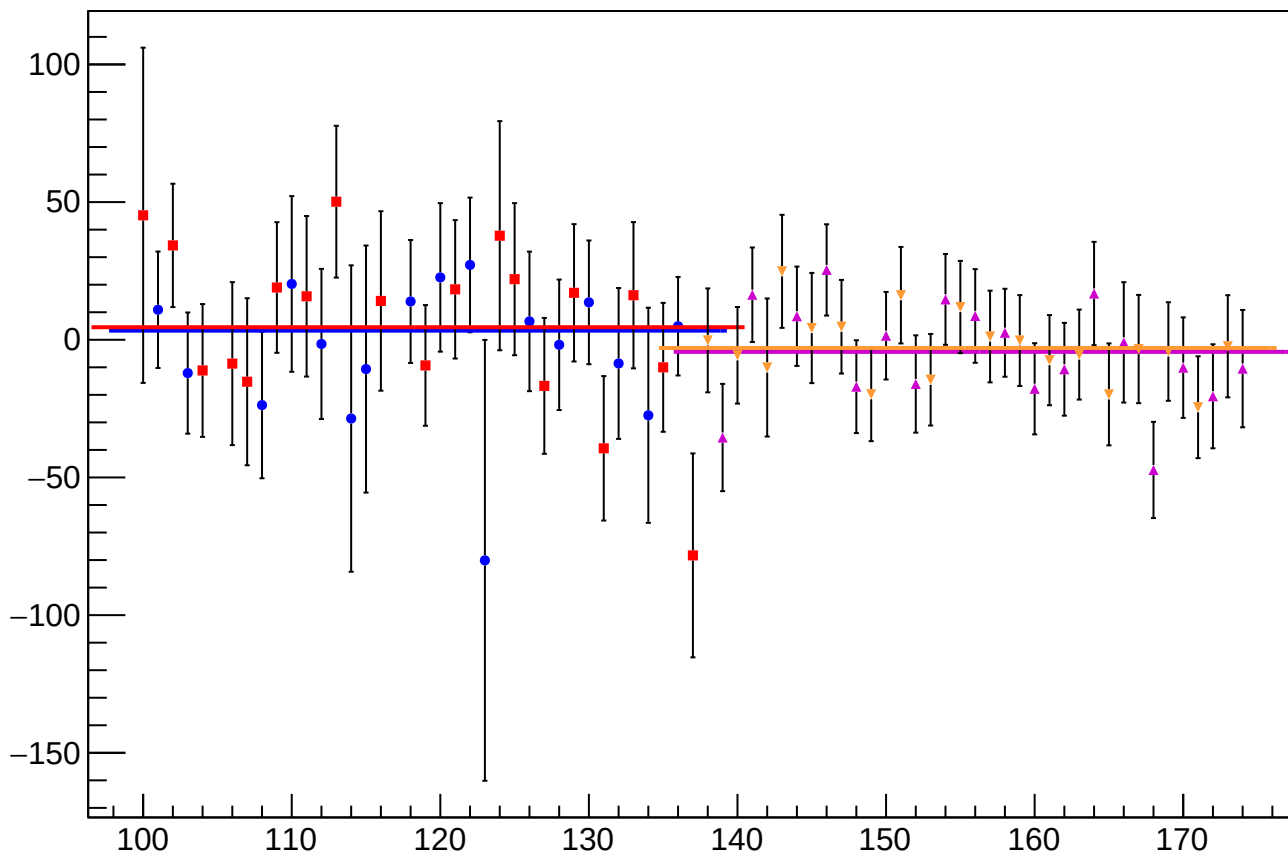
Right: 21.978+/-0.004 χ^2/NDF : 34197.9/35

In: 21.861+/-0.003 χ^2/NDF :35480.3/34

Out: 21.919+/-0.003 χ^2/NDF :32486.3/37

All: 21.890+/-0.002 χ^2/NDF : 68114.5/72

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 $\pm$ 6.388 χ^2 /NDF: 6.3/16

Left Out: -2.996 $\pm$ 4.115 χ^2 /NDF:8.1/18

Right Out: 4.561 $\pm$ 6.244 χ^2 /NDF: 17.7/18

Left In: -4.389 $\pm$ 4.157 χ^2 /NDF:20.0/17

Left: -3.685 $\pm$ 2.924 χ^2 /NDF: 28.2/36

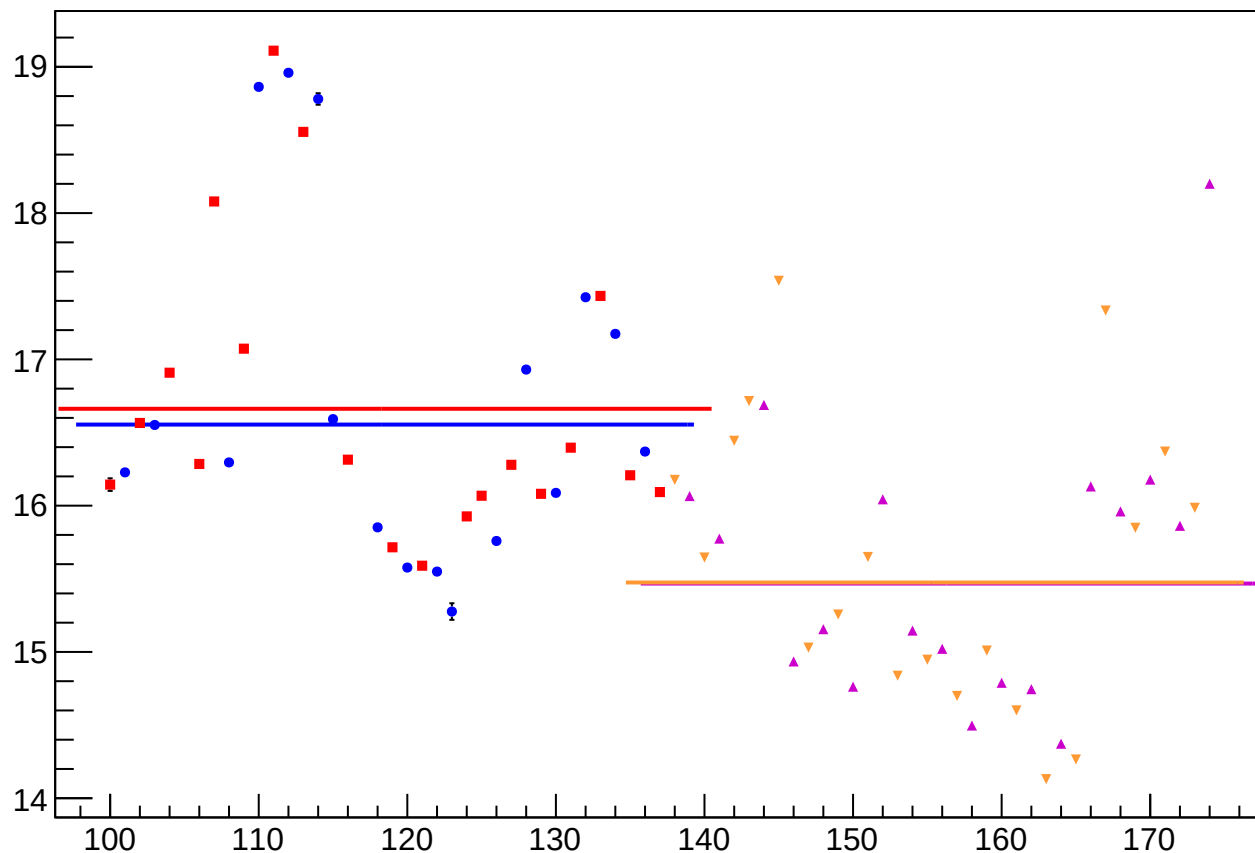
Right: 3.953 $\pm$ 4.465 χ^2 /NDF: 24.0/35

In: -2.096 $\pm$ 3.484 χ^2 /NDF:27.3/34

Out: -0.708 $\pm$ 3.436 χ^2 /NDF:26.9/37

All: -1.392 $\pm$ 2.446 χ^2 /NDF: 54.2/72

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.475 $\pm$ 0.003 χ^2 /NDF: 99986.4/18

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.468 $\pm$ 0.003 χ^2 /NDF: 84131.9/17

Left: 15.471 $\pm$ 0.002 χ^2 /NDF: 184121.5/36

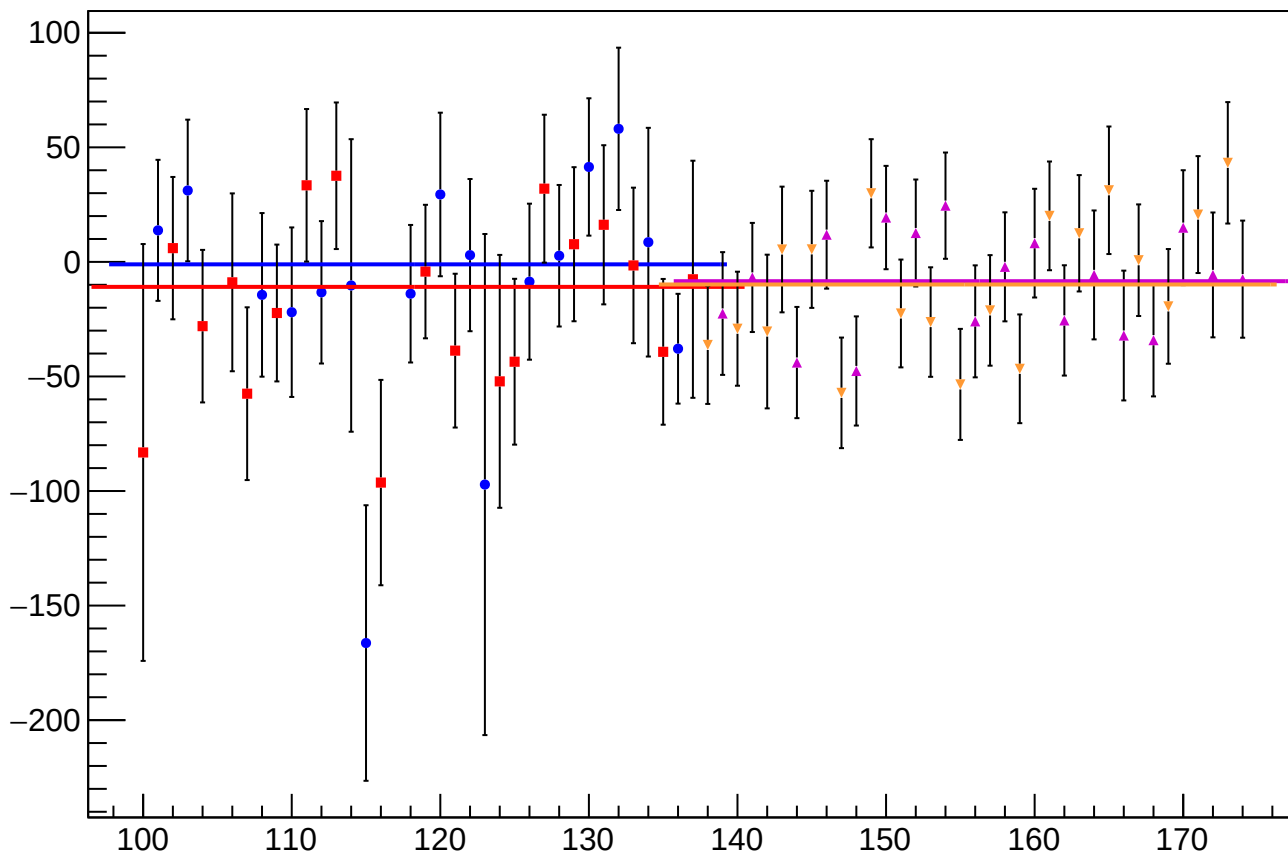
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.791 $\pm$ 0.002 χ^2 /NDF: 169275.1/34

Out: 15.834 $\pm$ 0.002 χ^2 /NDF: 193488.5/37

All: 15.813 $\pm$ 0.002 χ^2 /NDF: 362922.0/72

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 χ^2/NDF : 18.5/16

Left Out: -9.853 ± 5.774 χ^2/NDF : 26.3/18

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -8.418 ± 5.806 χ^2/NDF : 14.5/17

Left: -9.140 ± 4.094 χ^2/NDF : 40.8/36

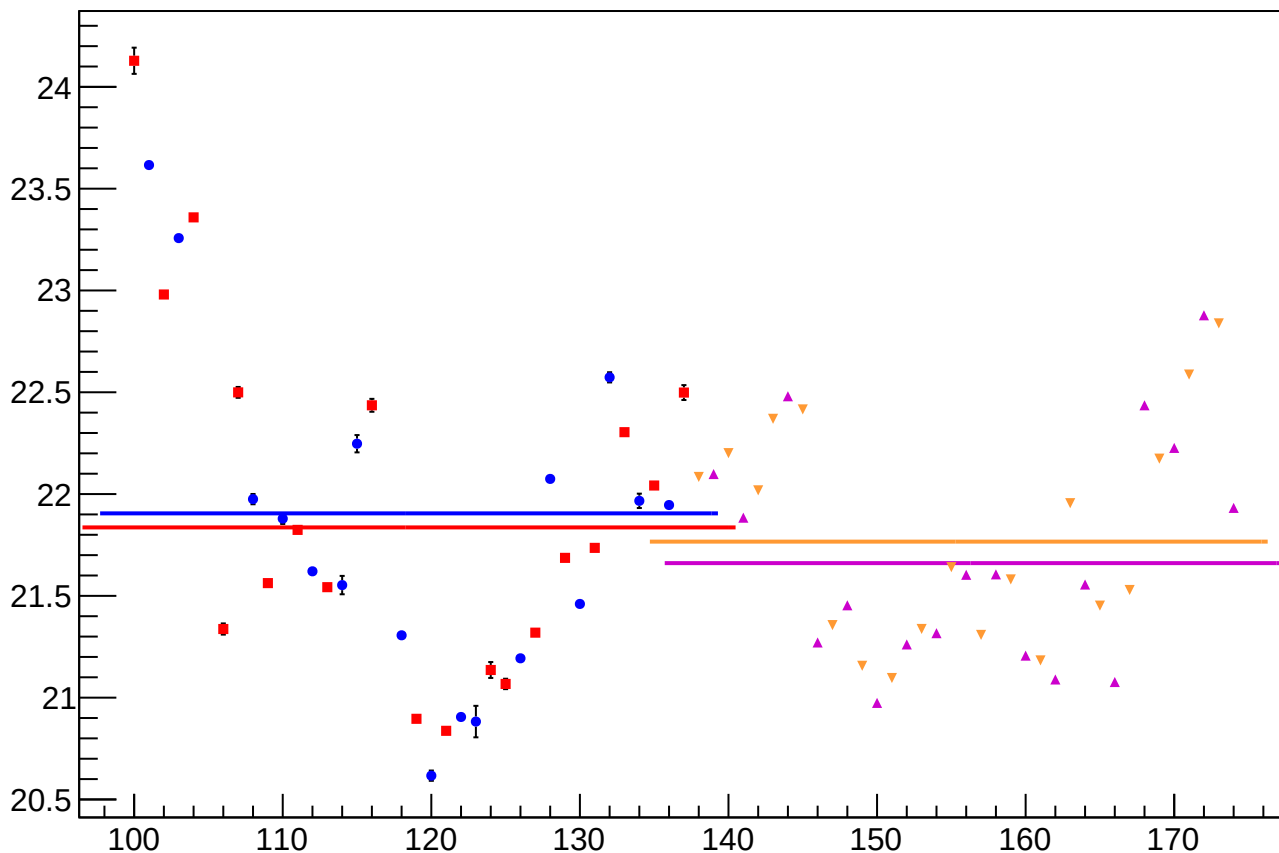
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -6.059 ± 4.785 χ^2/NDF : 33.5/34

Out: -10.202 ± 4.715 χ^2/NDF : 42.6/37

All: -8.161 ± 3.358 χ^2/NDF : 76.4/72

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 $\pm$ 0.006 χ^2 /NDF: 17794.2/16

Left Out: 21.766 $\pm$ 0.004 χ^2 /NDF: 15997.2/18

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.661 $\pm$ 0.004 χ^2 /NDF: 16556.8/17

Left: 21.714 $\pm$ 0.003 χ^2 /NDF: 32886.6/36

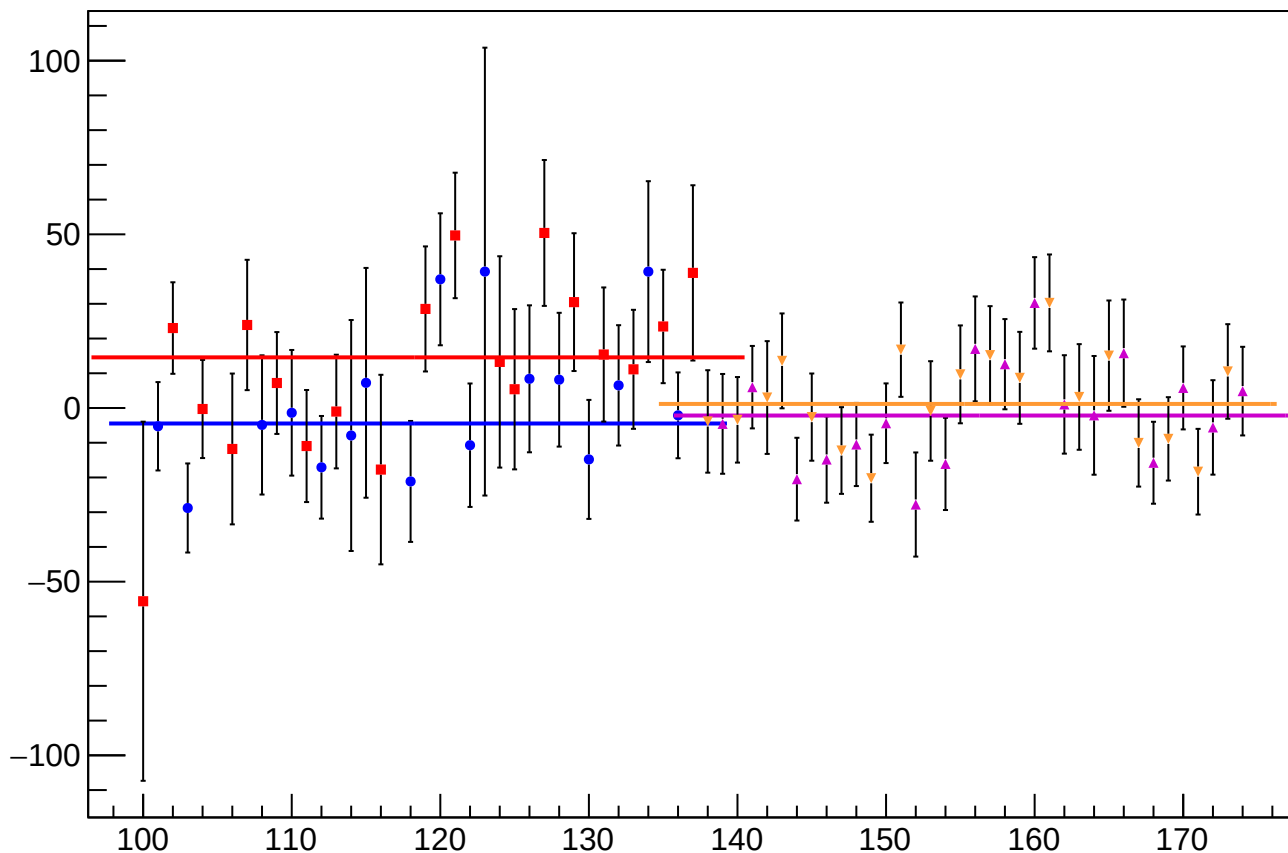
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.739 $\pm$ 0.003 χ^2 /NDF: 35488.5/34

Out: 21.790 $\pm$ 0.003 χ^2 /NDF: 32345.8/37

All: 21.765 $\pm$ 0.002 χ^2 /NDF: 67946.8/72

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 1.171 ± 3.098 $\chi^2/\text{NDF}: 17.9/18$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -2.167 ± 3.092 $\chi^2/\text{NDF}: 21.0/17$

Left: -0.501 ± 2.189 $\chi^2/\text{NDF}: 39.4/36$

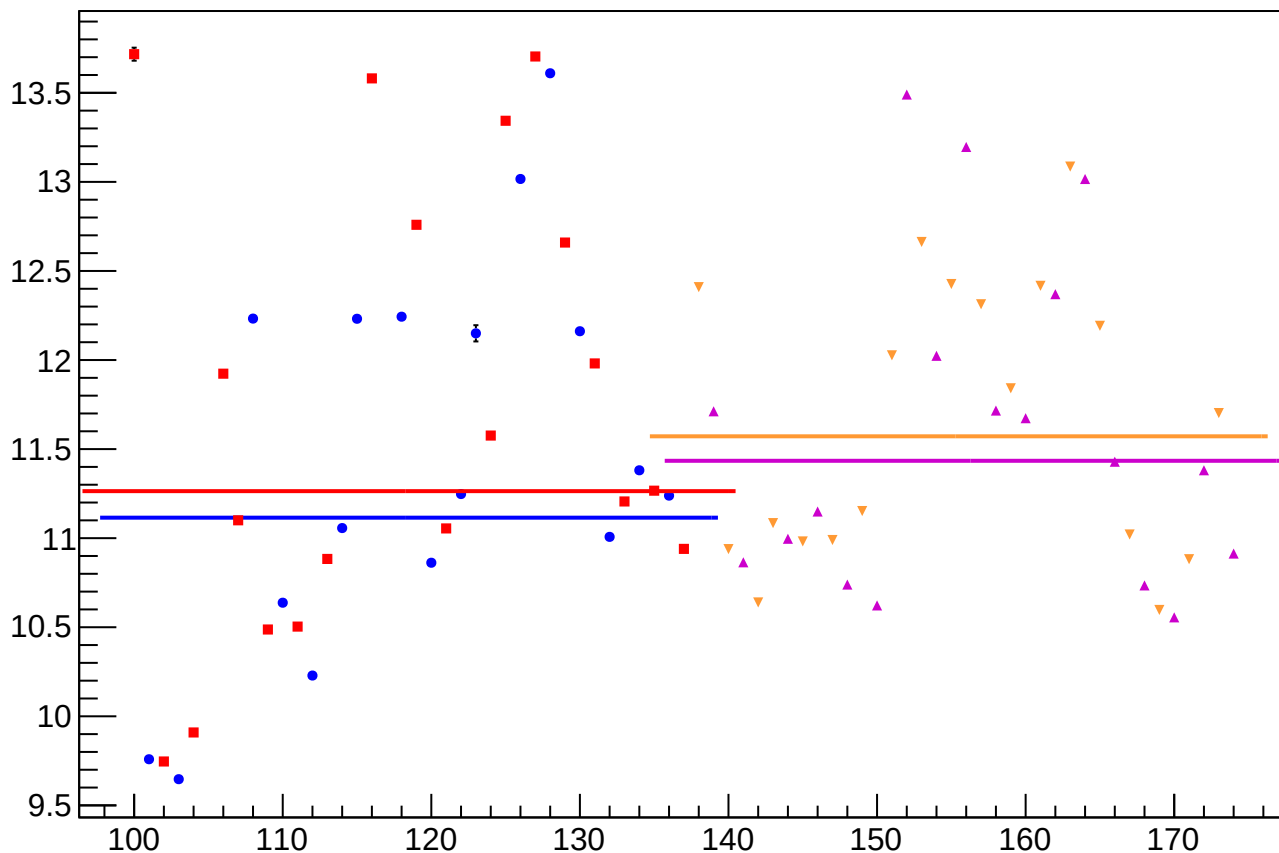
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -2.942 ± 2.516 $\chi^2/\text{NDF}: 36.3/34$

Out: 5.804 ± 2.506 $\chi^2/\text{NDF}: 43.9/37$

All: 1.448 ± 1.776 $\chi^2/\text{NDF}: 86.3/72$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2 /NDF: 133059.3/16

Left Out: 11.572 $\pm$ 0.002 χ^2 /NDF: 113133.6/18

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.434 $\pm$ 0.002 χ^2 /NDF: 143321.0/17

Left: 11.503 $\pm$ 0.002 χ^2 /NDF: 258426.4/36

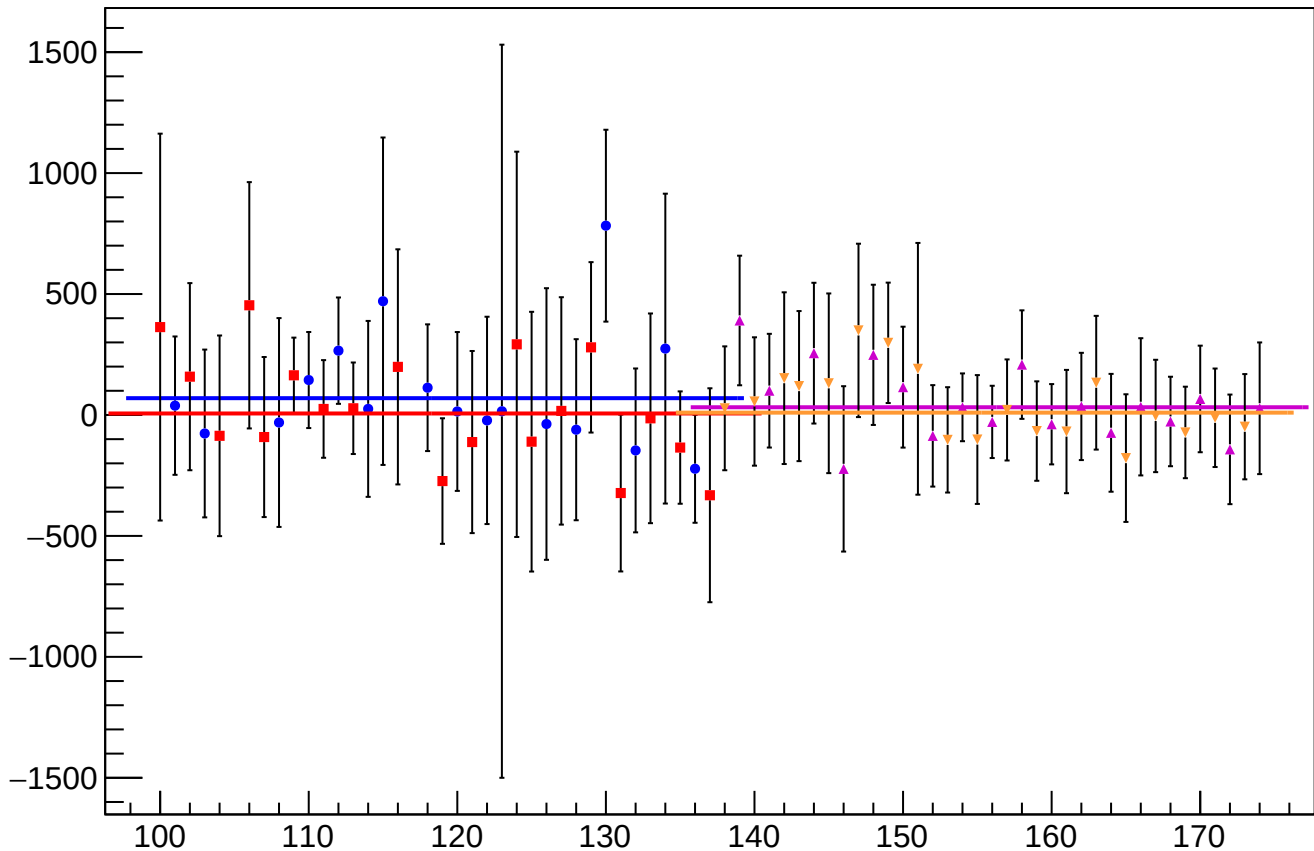
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.326 $\pm$ 0.002 χ^2 /NDF: 283584.2/34

Out: 11.465 $\pm$ 0.002 χ^2 /NDF: 267437.9/37

All: 11.396 $\pm$ 0.001 χ^2 /NDF: 554084.7/72

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 $\pm$ 79.231 χ^2 /NDF: 7.3/16

Left Out: 9.641 $\pm$ 57.832 χ^2 /NDF: 4.5/18

Right Out: 6.194 $\pm$ 70.182 χ^2 /NDF: 6.5/18

Left In: 31.916 $\pm$ 50.808 χ^2 /NDF: 5.9/17

Left: 22.213 $\pm$ 38.170 χ^2 /NDF: 10.4/36

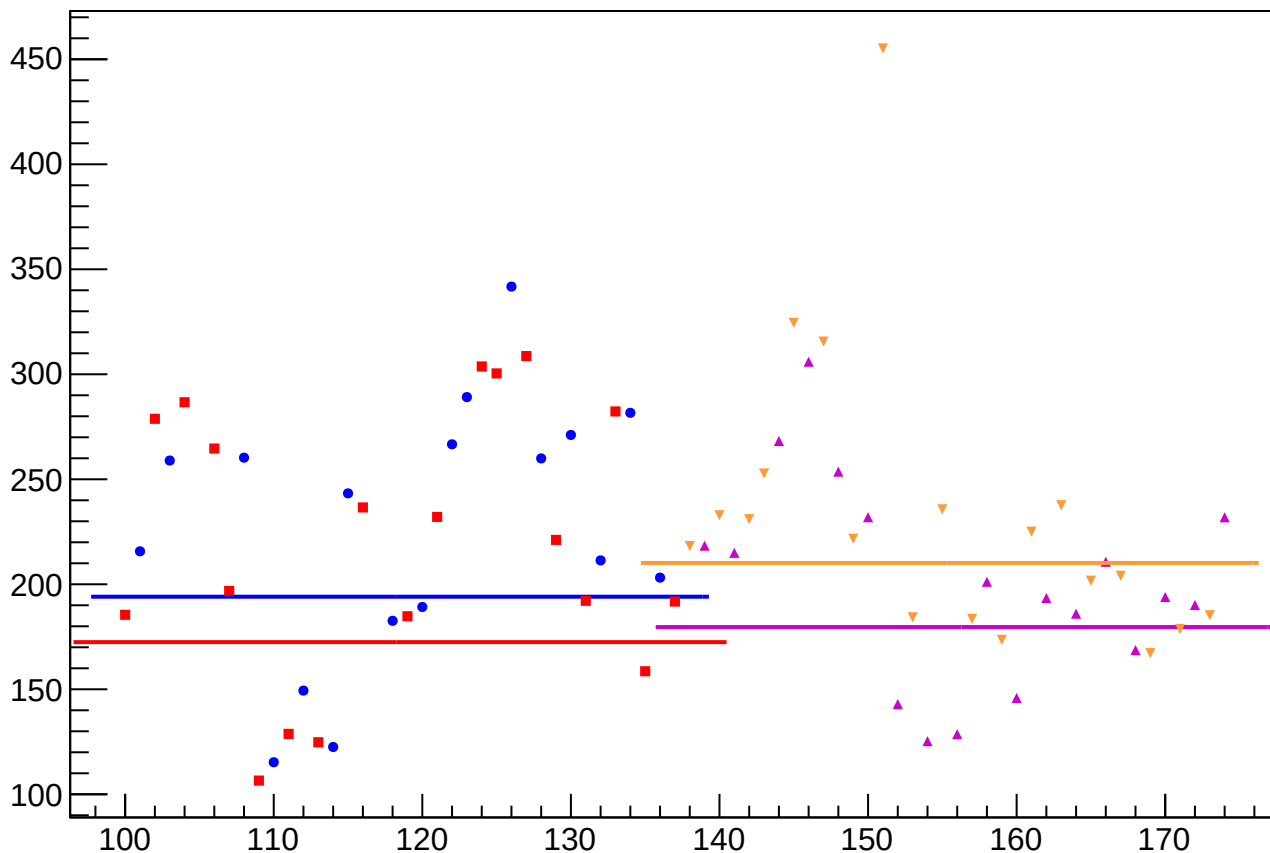
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 42.859 $\pm$ 42.769 χ^2 /NDF: 13.3/34

Out: 8.247 $\pm$ 44.632 χ^2 /NDF: 10.9/37

All: 26.290 $\pm$ 30.880 χ^2 /NDF: 24.5/72

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 210.166 $\pm$ 0.041 χ^2 /NDF:1220824.9/18

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 179.650 $\pm$ 0.036 χ^2 /NDF:1586262.8/17

Left: 192.943 $\pm$ 0.027 χ^2 /NDF: 3121374.9/36

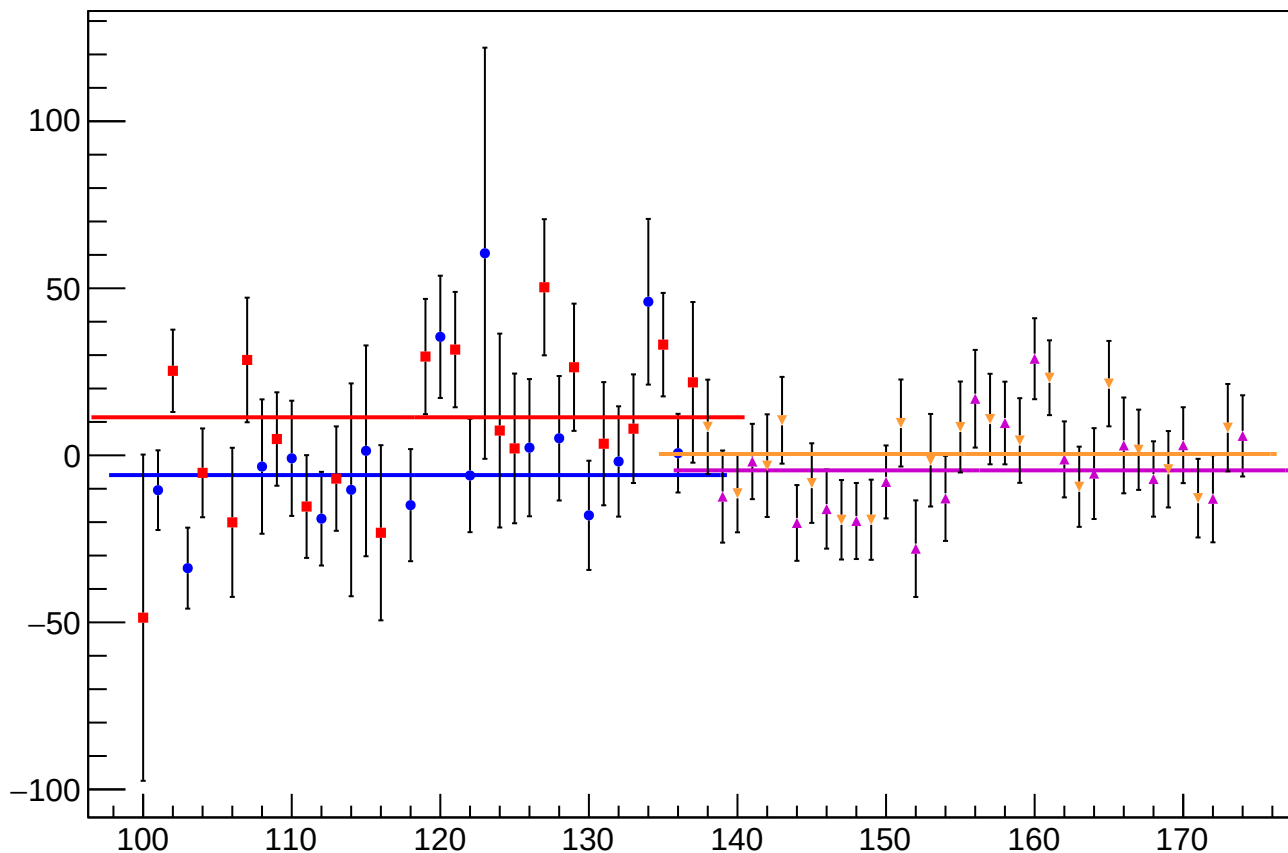
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.855 $\pm$ 0.030 χ^2 /NDF:2638677.1/34

Out: 194.914 $\pm$ 0.032 χ^2 /NDF:3134266.4/37

All: 189.149 $\pm$ 0.022 χ^2 /NDF: 5836951.5/72

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 χ^2/NDF : 18.8/16

Left Out: 0.406 ± 2.881 χ^2/NDF : 18.9/18

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -4.499 ± 2.895 χ^2/NDF : 21.3/17

Left: -2.035 ± 2.042 χ^2/NDF : 41.6/36

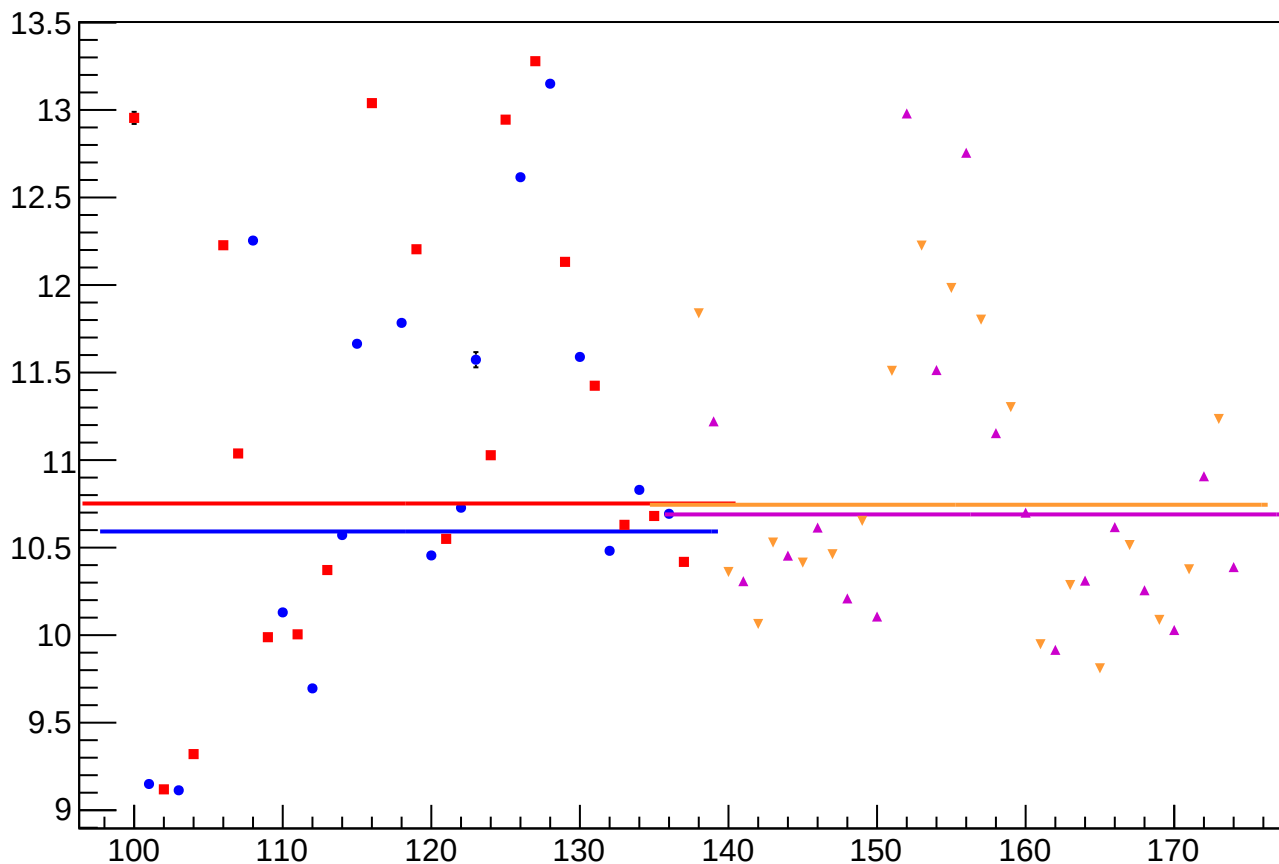
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -4.964 ± 2.371 χ^2/NDF : 40.2/34

Out: 4.063 ± 2.353 χ^2/NDF : 46.6/37

All: -0.416 ± 1.670 χ^2/NDF : 94.1/72

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.745 $\pm$ 0.002 χ^2 /NDF:119642.1/18

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.690 $\pm$ 0.002 χ^2 /NDF:139132.4/17

Left: 10.717 $\pm$ 0.001 χ^2 /NDF: 259140.3/36

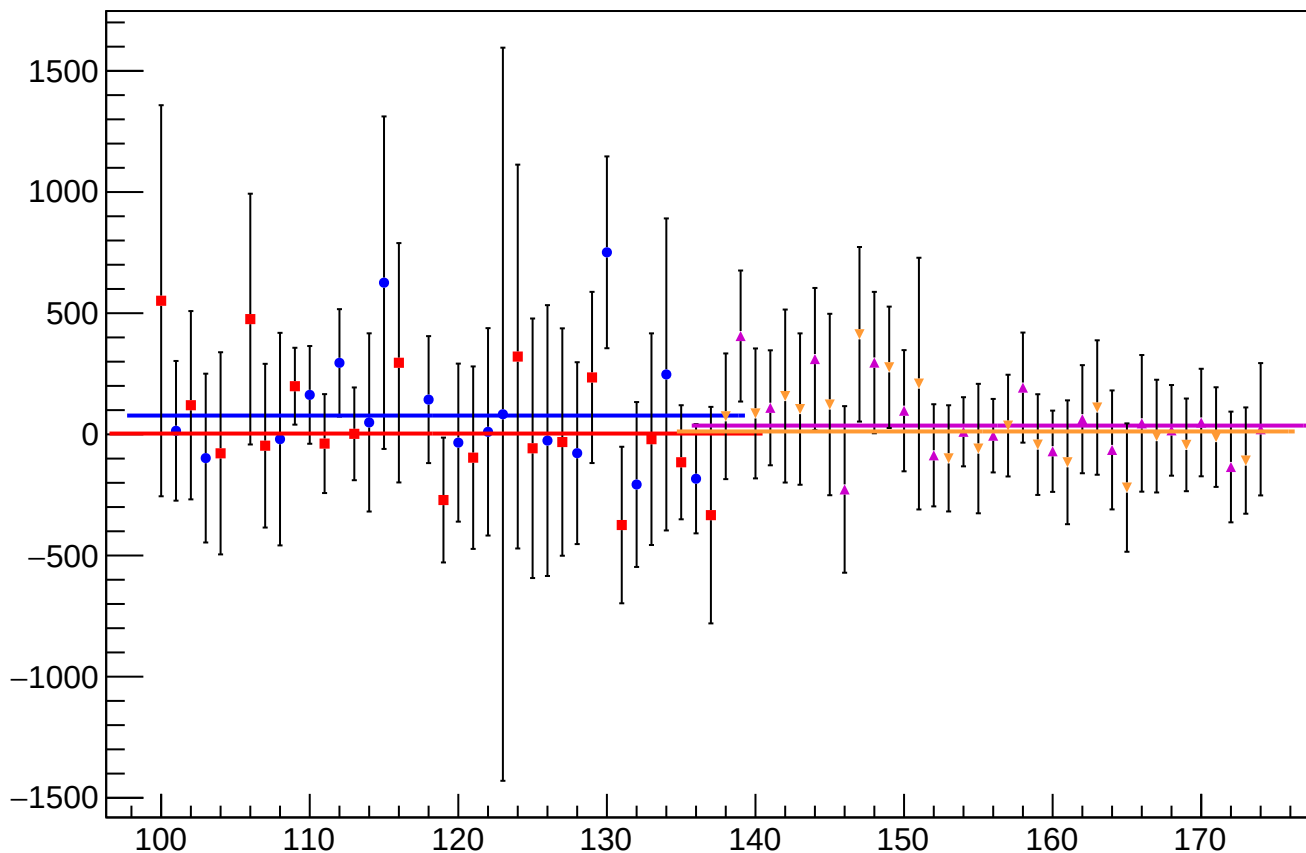
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.658 $\pm$ 0.002 χ^2 /NDF:300274.8/34

Out: 10.747 $\pm$ 0.002 χ^2 /NDF:296541.6/37

All: 10.703 $\pm$ 0.001 χ^2 /NDF: 598257.1/72

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 11.992 $\pm$ 58.235 χ^2 /NDF:4.9/18

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 36.183 $\pm$ 51.297 χ^2 /NDF:6.4/17

Left: 25.614 $\pm$ 38.493 χ^2 /NDF: 11.4/36

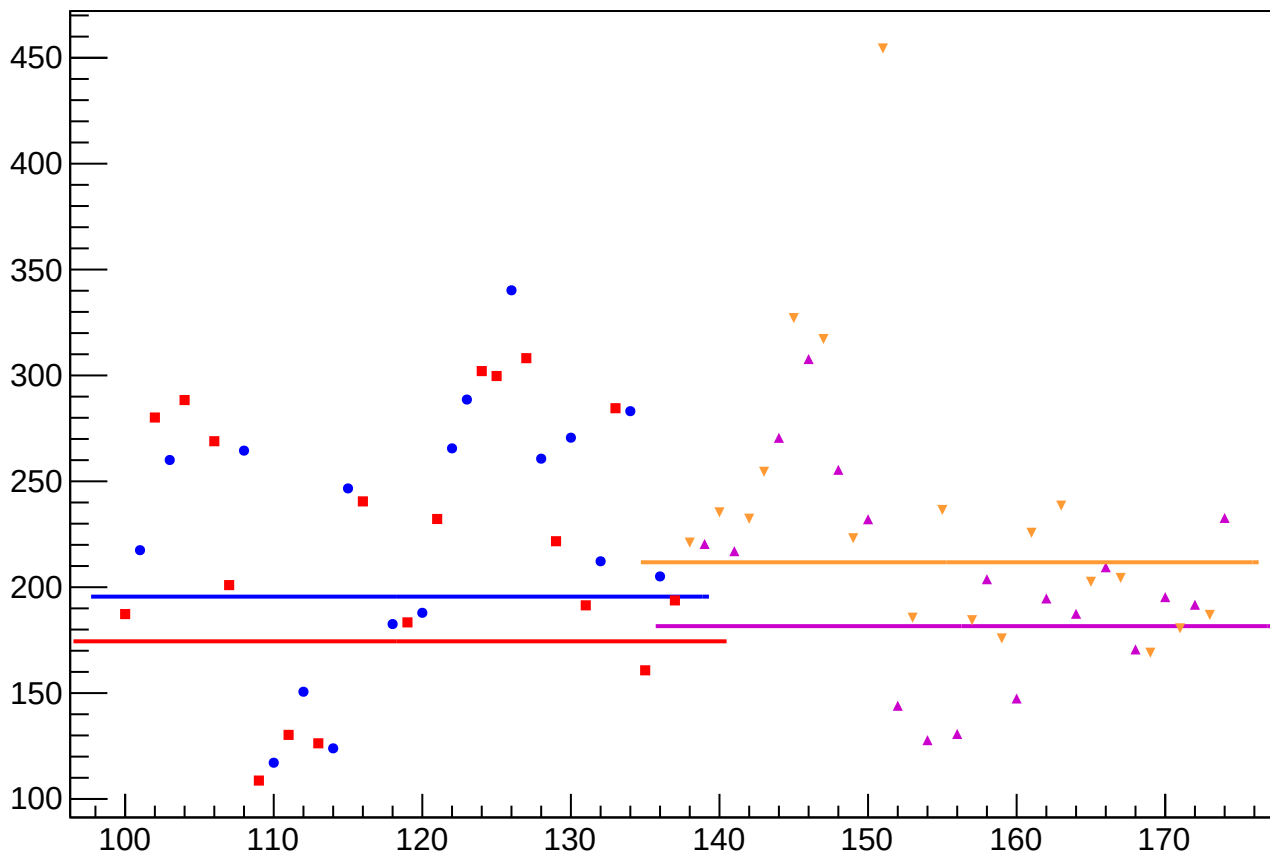
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 48.301 $\pm$ 43.143 χ^2 /NDF:14.1/34

Out: 8.490 $\pm$ 44.990 χ^2 /NDF:12.3/37

All: 29.229 $\pm$ 31.139 χ^2 /NDF: 26.8/72

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2 /NDF: 979937.7/16

Left Out: 211.771 $\pm$ 0.041 χ^2 /NDF:1203588.1/18

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 181.615 $\pm$ 0.036 χ^2 /NDF:1539878.0/17

Left: 194.790 $\pm$ 0.027 χ^2 /NDF: 3045466.1/36

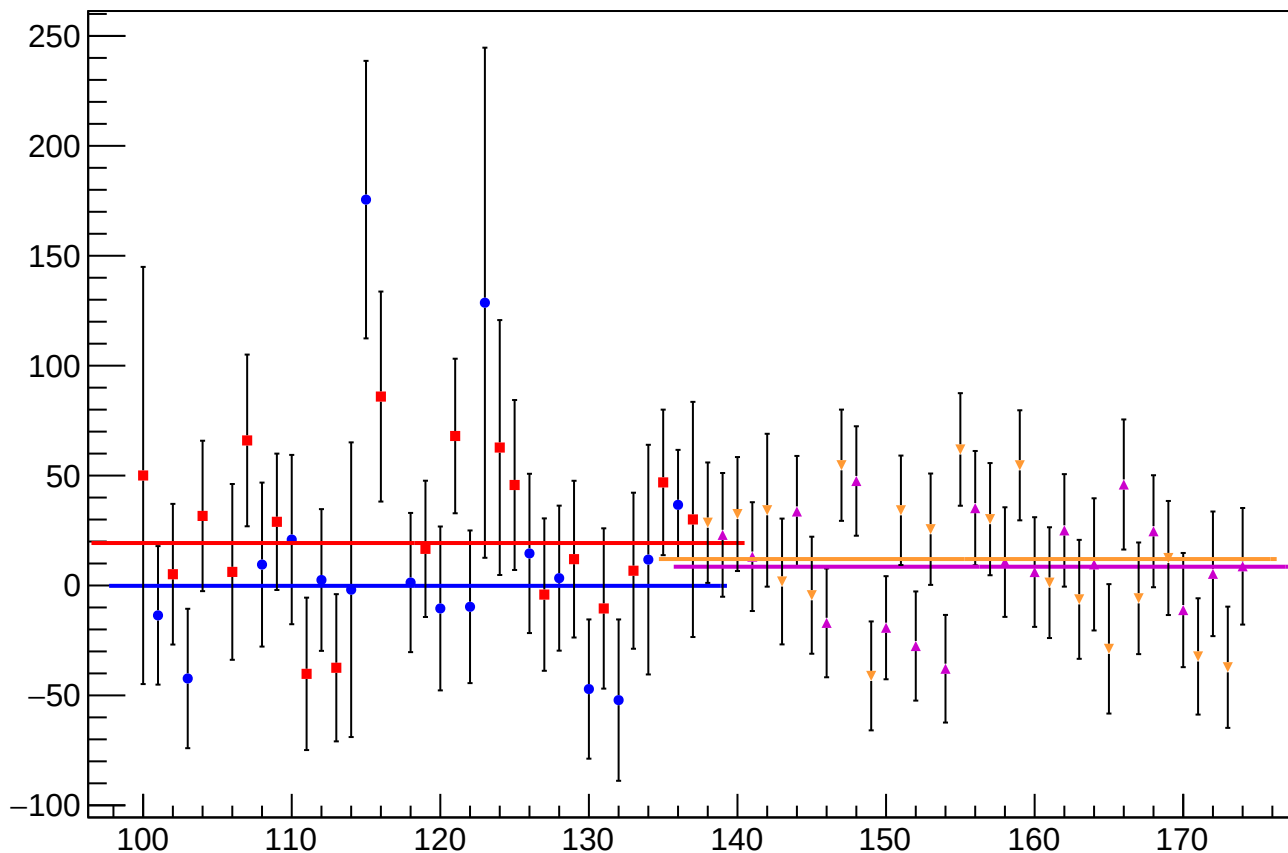
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 185.693 $\pm$ 0.031 χ^2 /NDF:2563016.8/34

Out: 196.724 $\pm$ 0.032 χ^2 /NDF:3063408.2/37

All: 190.978 $\pm$ 0.022 χ^2 /NDF: 5689063.3/72

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 χ^2/NDF : 18.1/16

Left Out: 12.030 ± 6.066 χ^2/NDF : 26.7/18

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 8.537 ± 6.089 χ^2/NDF : 16.0/17

Left: 10.290 ± 4.297 χ^2/NDF : 42.8/36

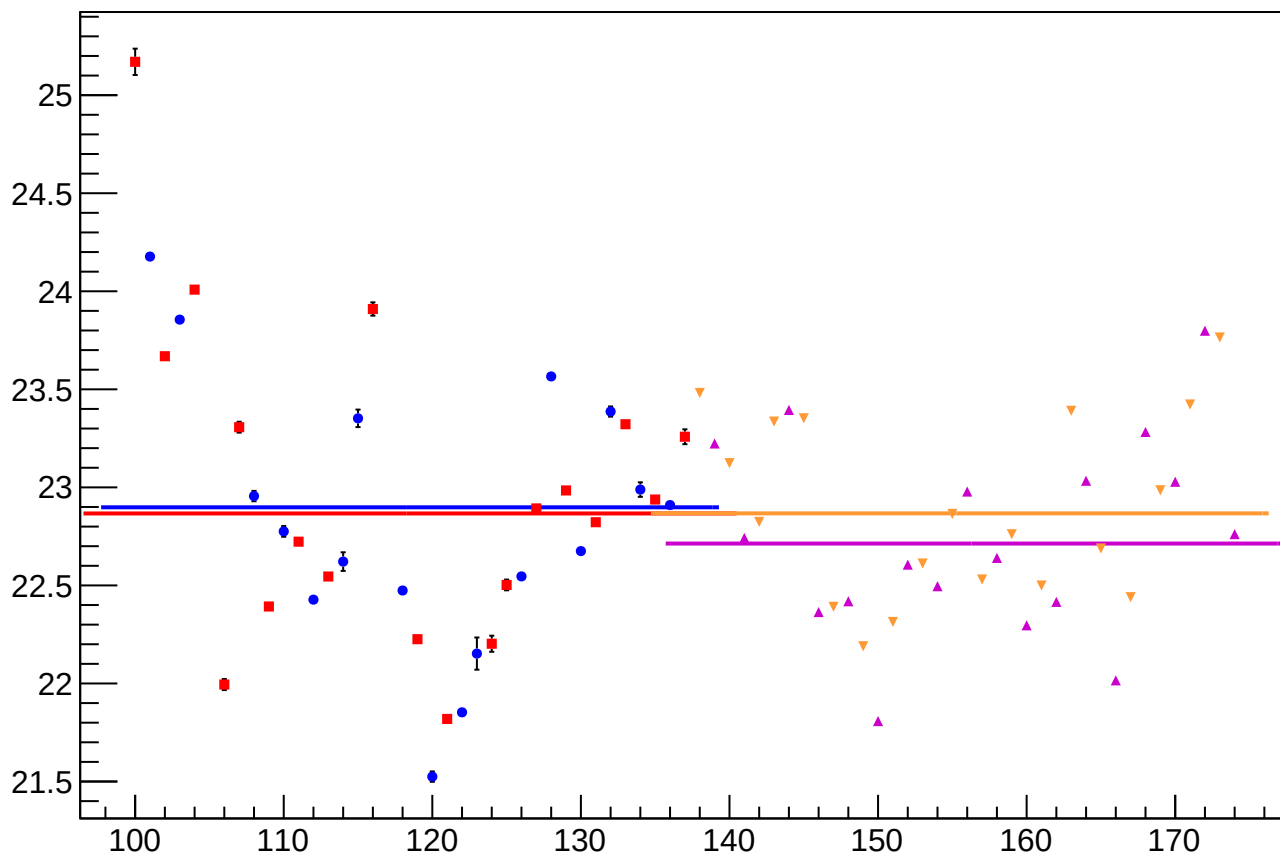
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 5.733 ± 5.012 χ^2/NDF : 34.7/34

Out: 14.468 ± 4.948 χ^2/NDF : 42.0/37

All: 10.156 ± 3.521 χ^2/NDF : 78.2/72

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2 /NDF: 12143.3/16

Left Out: 22.867 $\pm$ 0.004 χ^2 /NDF:11037.6/18

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.714 $\pm$ 0.004 χ^2 /NDF:12592.6/17

Left: 22.791 $\pm$ 0.003 χ^2 /NDF: 24271.3/36

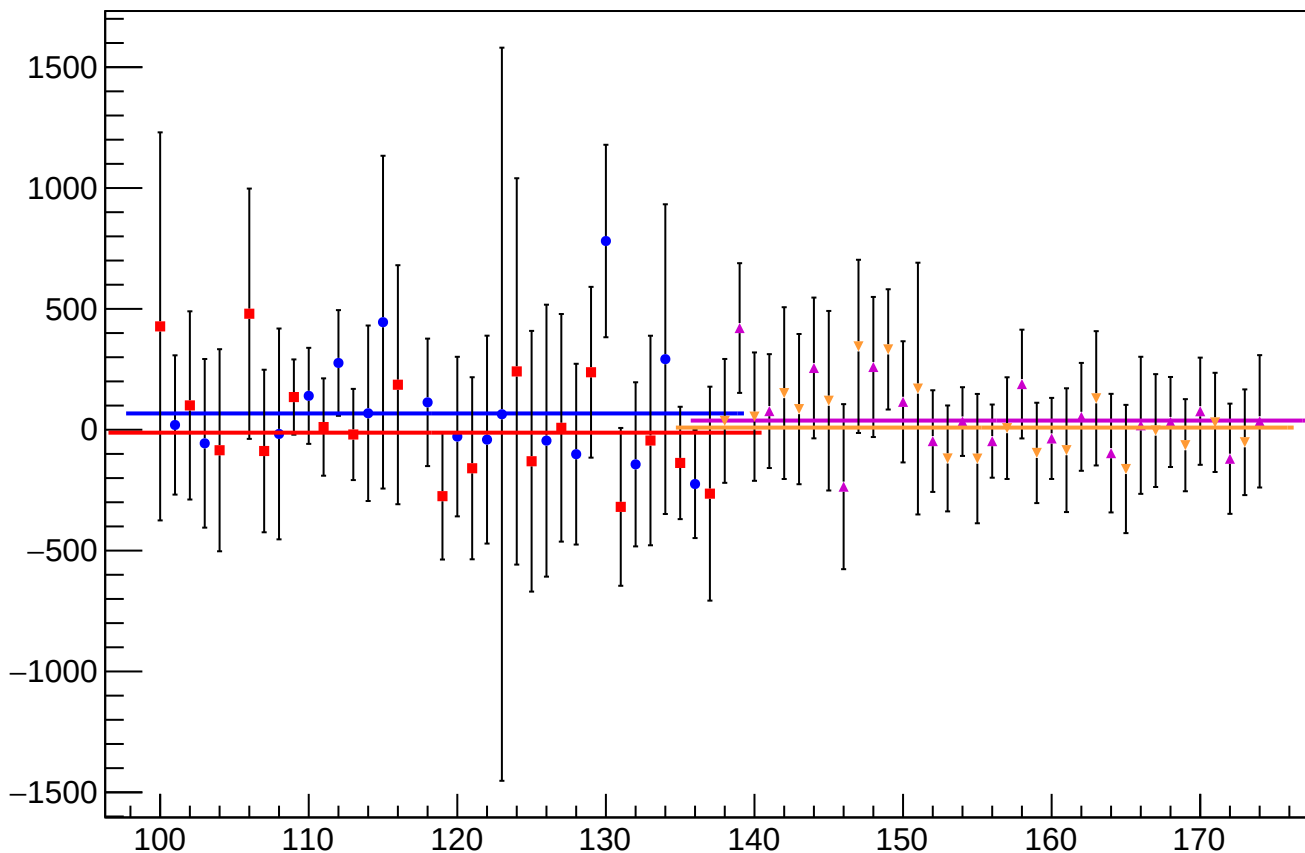
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.773 $\pm$ 0.004 χ^2 /NDF:25329.9/34

Out: 22.867 $\pm$ 0.003 χ^2 /NDF:22086.0/37

All: 22.821 $\pm$ 0.002 χ^2 /NDF: 47773.3/72

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 8.988 $\pm$ 58.109 χ^2 /NDF:4.8/18

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 37.974 $\pm$ 51.164 χ^2 /NDF:5.9/17

Left: 25.316 $\pm$ 38.400 χ^2 /NDF: 10.9/36

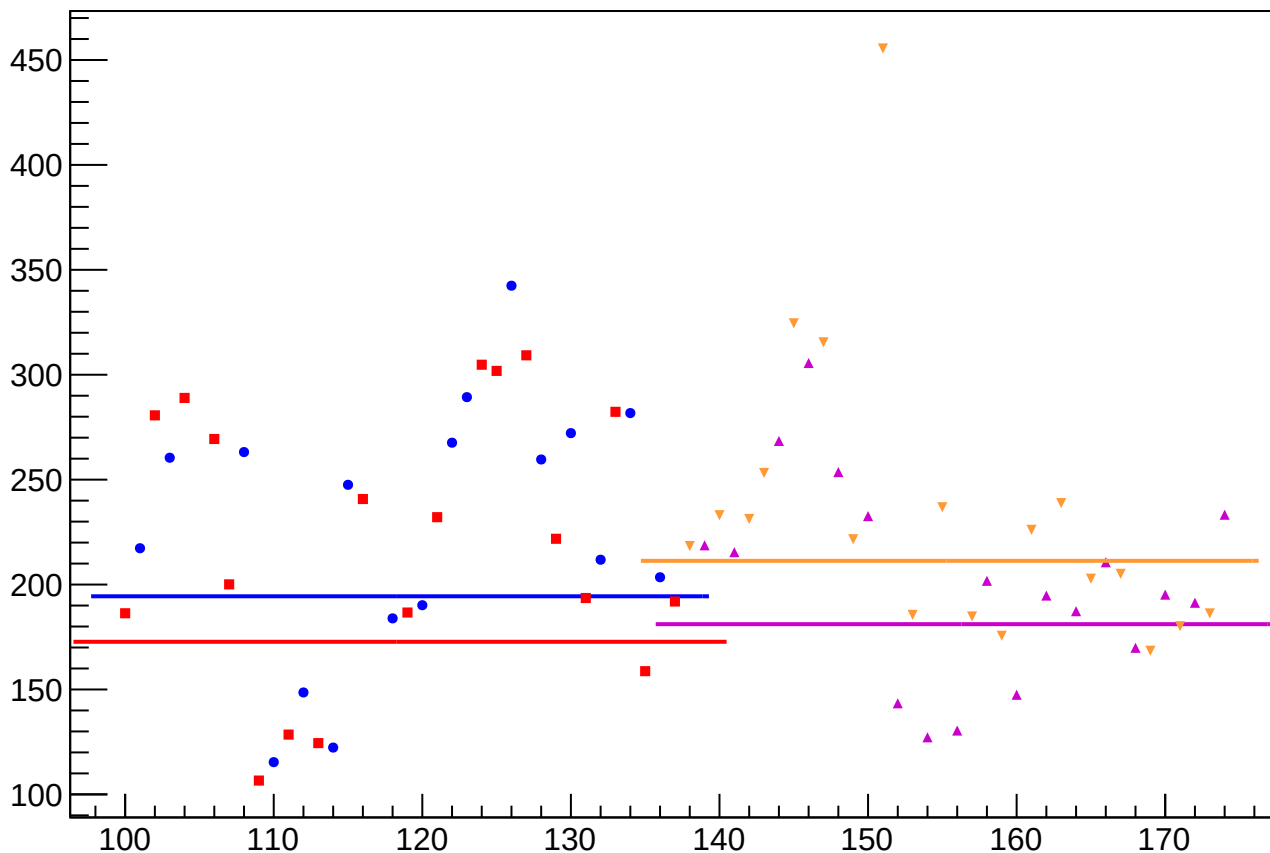
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 46.621 $\pm$ 43.009 χ^2 /NDF:13.4/34

Out: 0.429 $\pm$ 44.803 χ^2 /NDF:10.6/37

All: 24.468 $\pm$ 31.027 χ^2 /NDF: 24.5/72

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 211.314 $\pm$ 0.041 χ^2 /NDF:1195495.5/18

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 181.128 $\pm$ 0.036 χ^2 /NDF:1532853.9/17

Left: 194.310 $\pm$ 0.027 χ^2 /NDF: 3032367.0/36

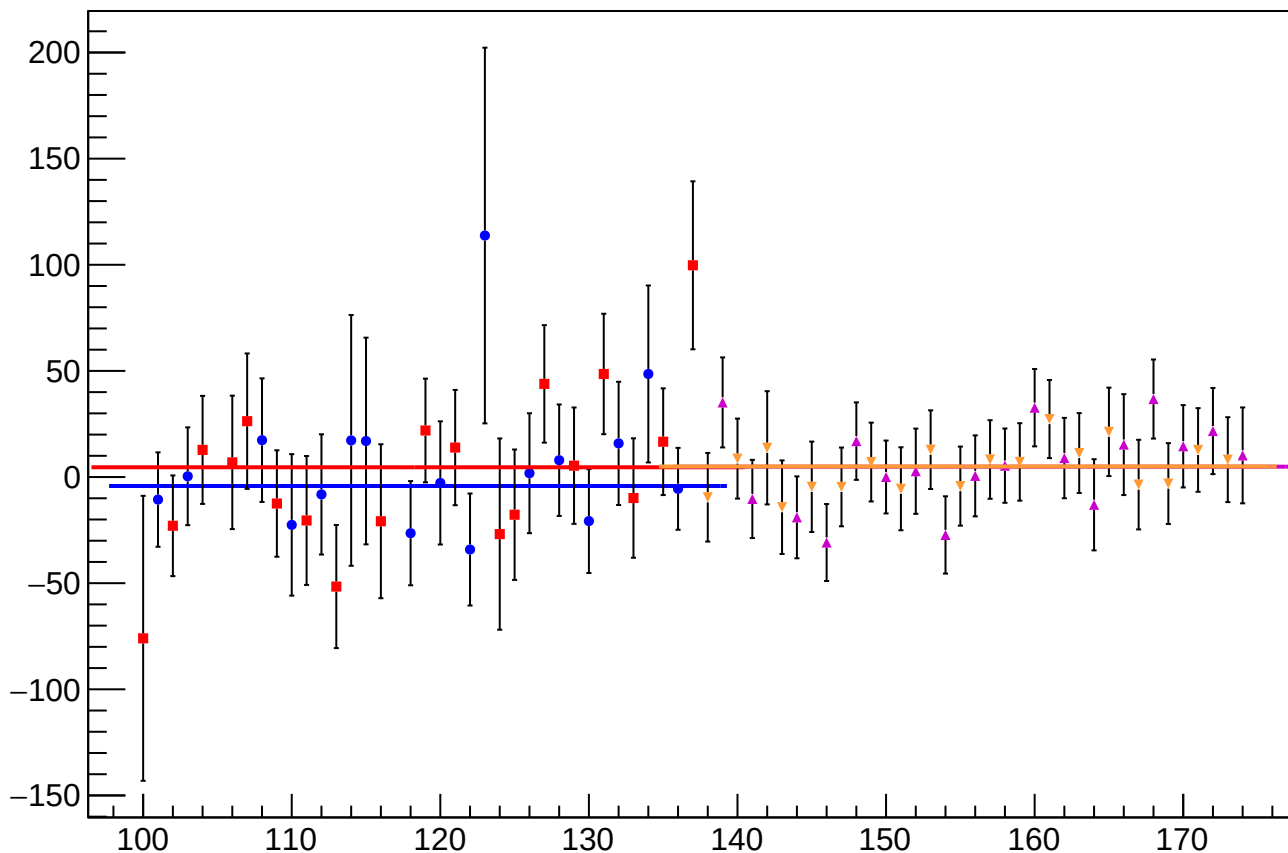
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 185.024 $\pm$ 0.030 χ^2 /NDF:2592314.5/34

Out: 195.667 $\pm$ 0.032 χ^2 /NDF:3149831.2/37

All: 190.128 $\pm$ 0.022 χ^2 /NDF: 5800874.2/72

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 $\pm$ 6.871 χ^2 /NDF: 8.0/16

Left Out: 4.982 $\pm$ 4.514 χ^2 /NDF:5.4/18

Right Out: 4.599 $\pm$ 6.725 χ^2 /NDF: 21.1/18

Left In: 4.879 $\pm$ 4.542 χ^2 /NDF:19.0/17

Left: 4.931 $\pm$ 3.202 χ^2 /NDF: 24.4/36

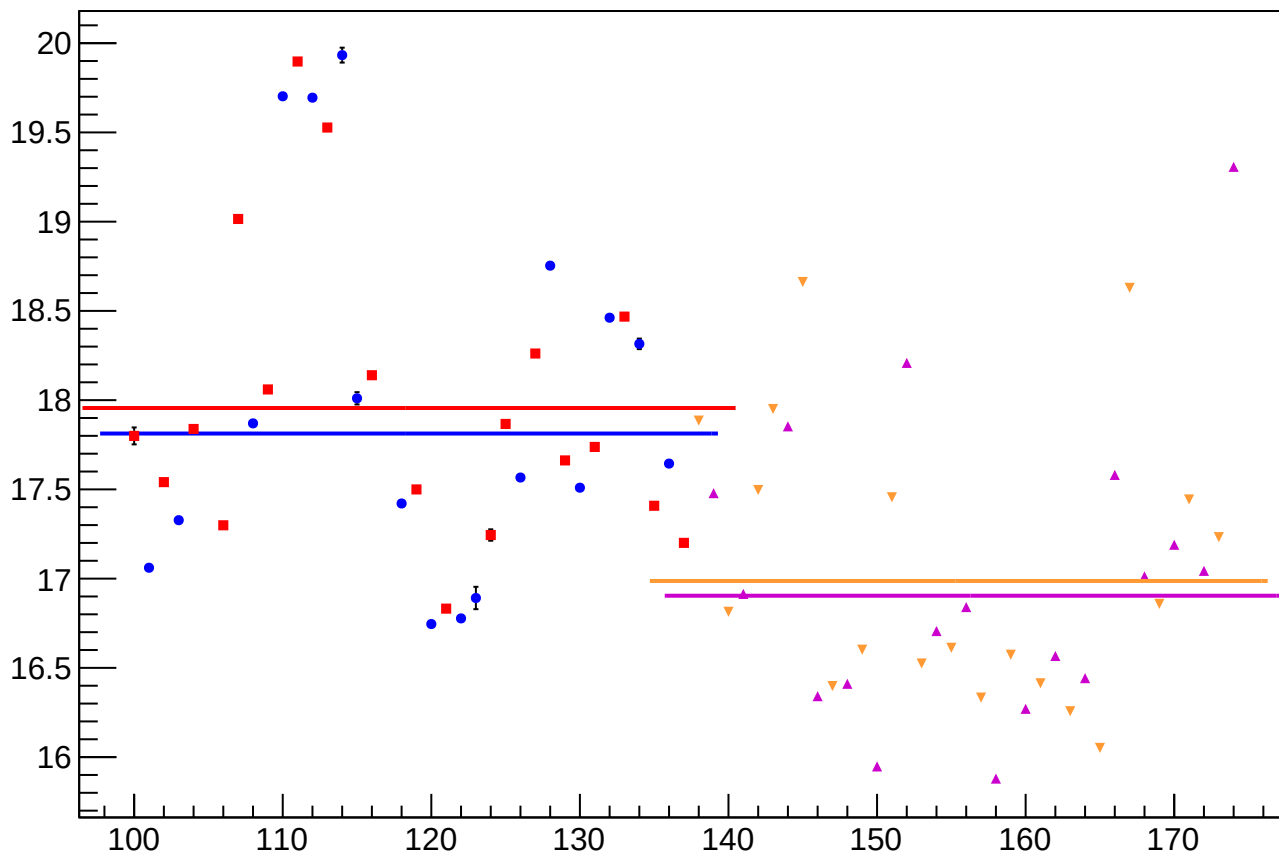
Right: 0.283 $\pm$ 4.806 χ^2 /NDF: 29.9/35

In: 2.112 $\pm$ 3.789 χ^2 /NDF:28.2/34

Out: 4.863 $\pm$ 3.748 χ^2 /NDF:26.4/37

All: 3.502 $\pm$ 2.665 χ^2 /NDF: 54.9/72

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 16.987 $\pm$ 0.003 χ^2 /NDF: 52945.3/18

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.904 $\pm$ 0.003 χ^2 /NDF: 60291.1/17

Left: 16.946 $\pm$ 0.002 χ^2 /NDF: 113569.6/36

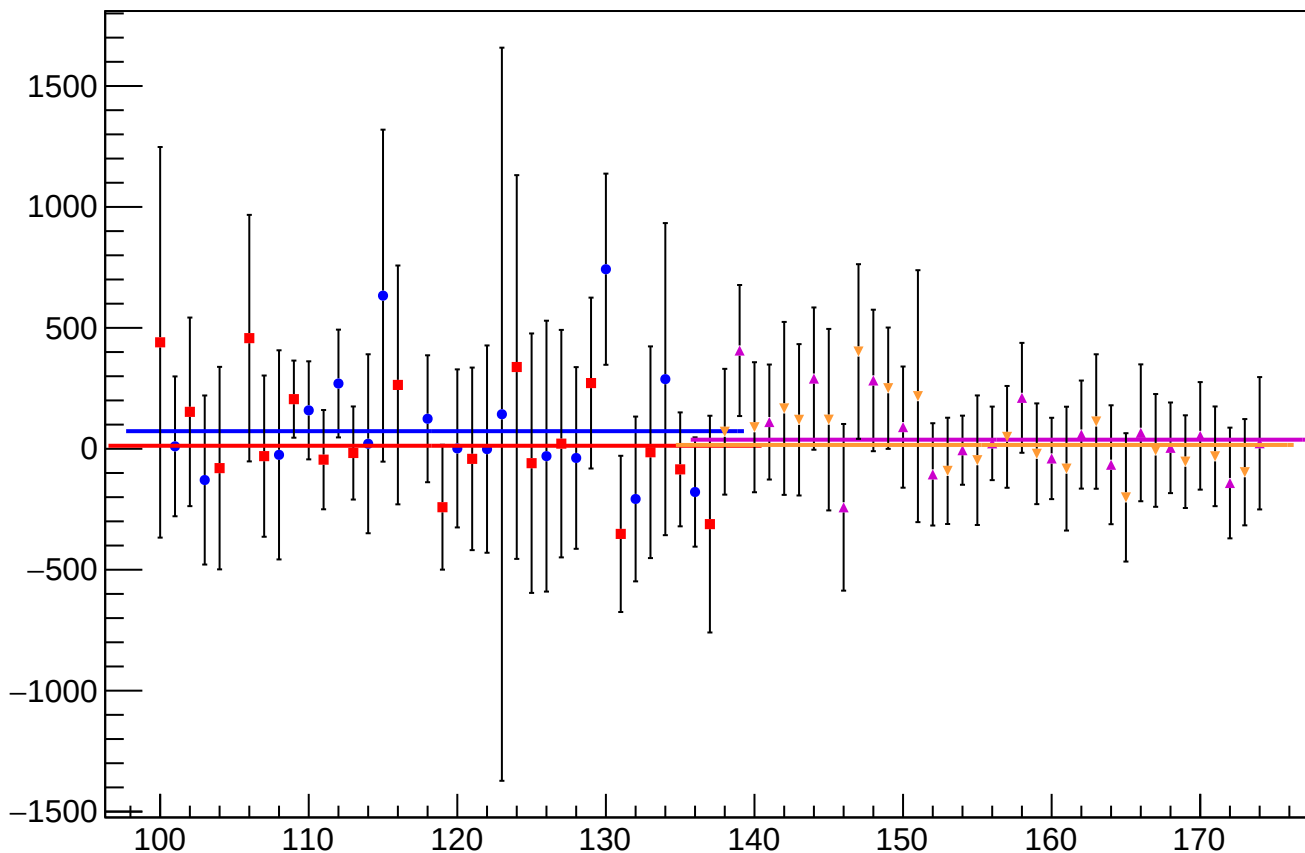
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.181 $\pm$ 0.003 χ^2 /NDF: 116669.1/34

Out: 17.288 $\pm$ 0.003 χ^2 /NDF: 107019.3/37

All: 17.235 $\pm$ 0.002 χ^2 /NDF: 224499.5/72

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 15.925+/-58.365 χ^2/NDF : 4.4/18

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 37.667+/-51.401 χ^2/NDF : 6.3/17

Left: 28.170+/-38.574 χ^2/NDF : 10.8/36

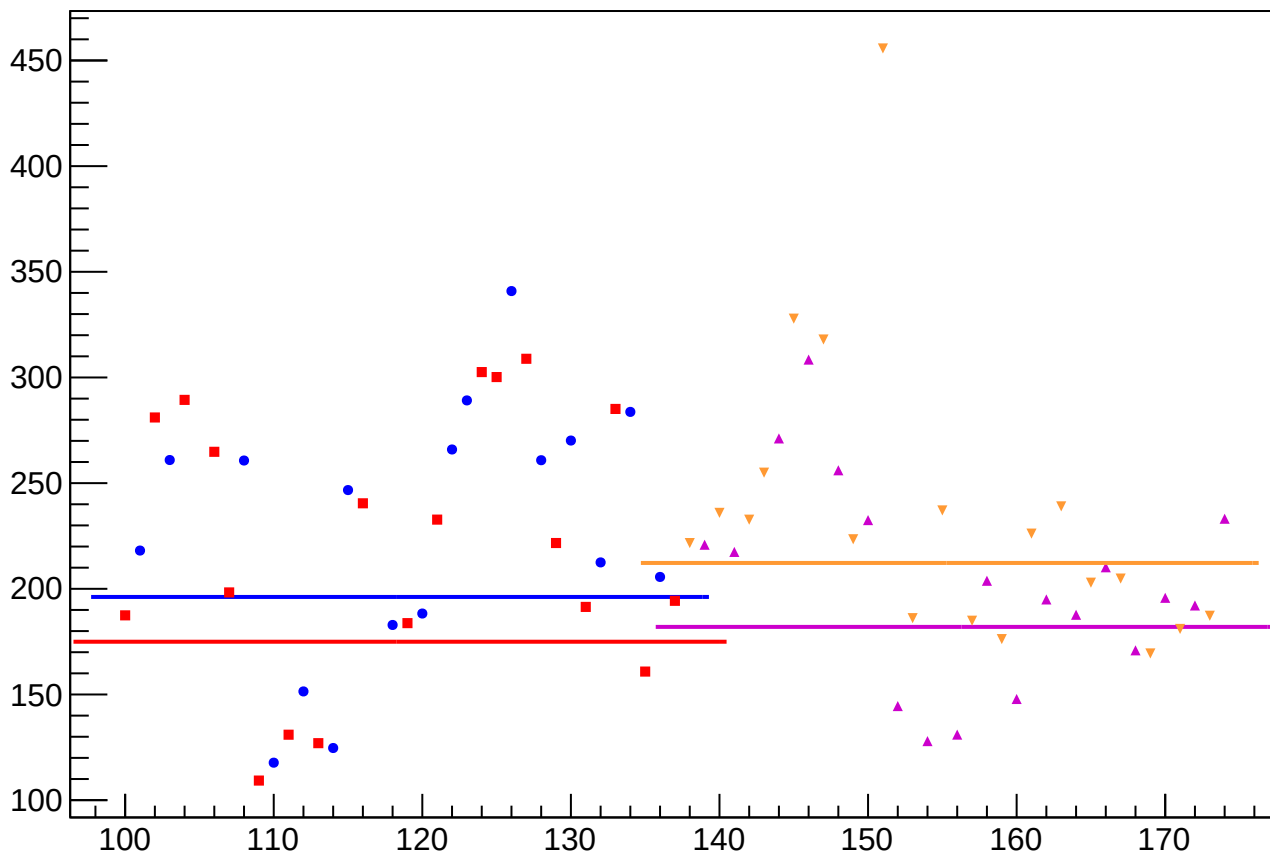
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 47.968+/-43.236 χ^2/NDF : 13.6/34

Out: 14.570+/-45.090 χ^2/NDF : 11.1/37

All: 31.970+/-31.207 χ^2/NDF : 25.1/72

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151+/-0.057 χ^2/NDF : 964998.4/16

Left Out: 212.239+/-0.041 χ^2/NDF :1203799.4/18

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 181.982+/-0.036 χ^2/NDF :1539608.5/17

Left: 195.198+/-0.027 χ^2/NDF : 3046119.1/36

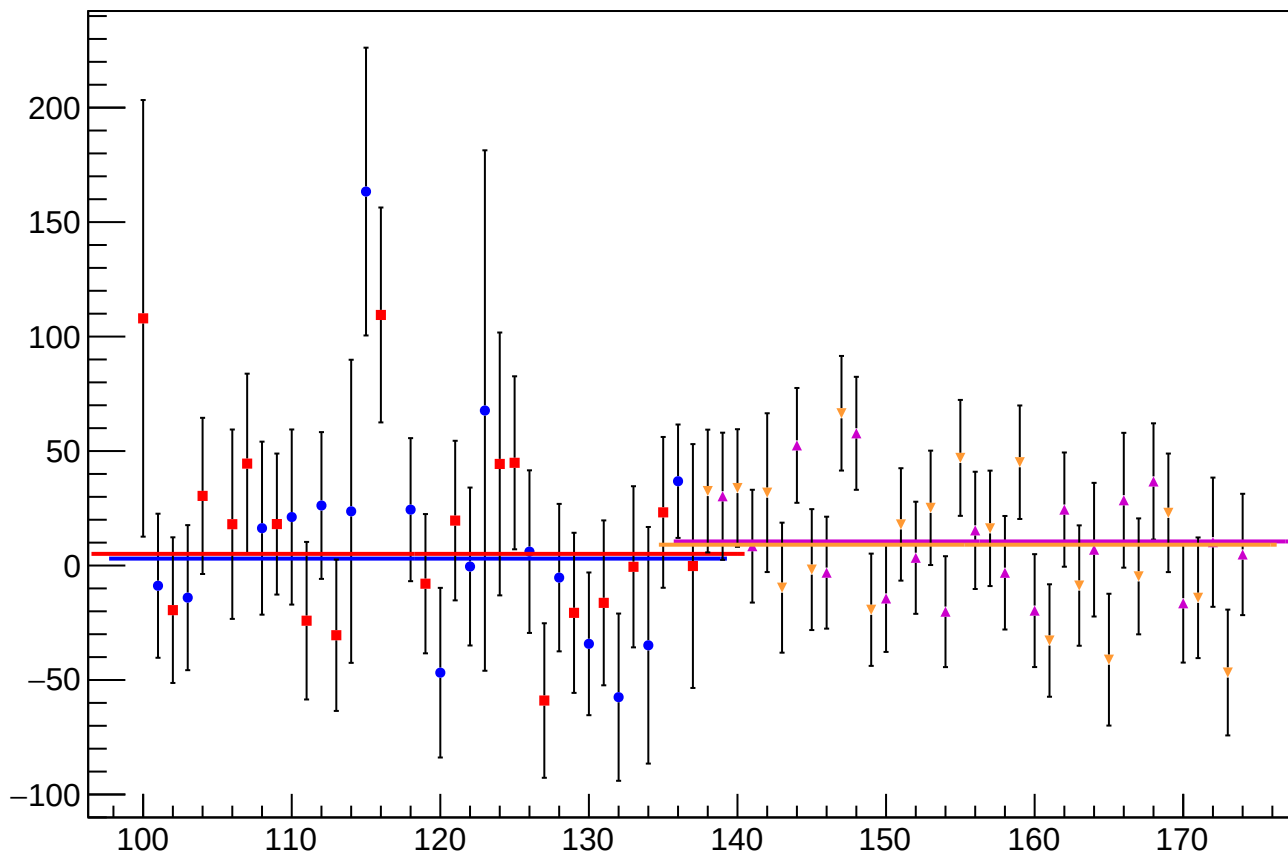
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 186.126+/-0.031 χ^2/NDF :2549053.7/34

Out: 197.211+/-0.032 χ^2/NDF :3043623.7/37

All: 191.436+/-0.022 χ^2/NDF : 5655656.4/72

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 9.100 ± 5.995 $\chi^2/\text{NDF}: 26.2/18$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 10.519 ± 6.030 $\chi^2/\text{NDF}: 14.8/17$

Left: 9.806 ± 4.251 $\chi^2/\text{NDF}: 41.1/36$

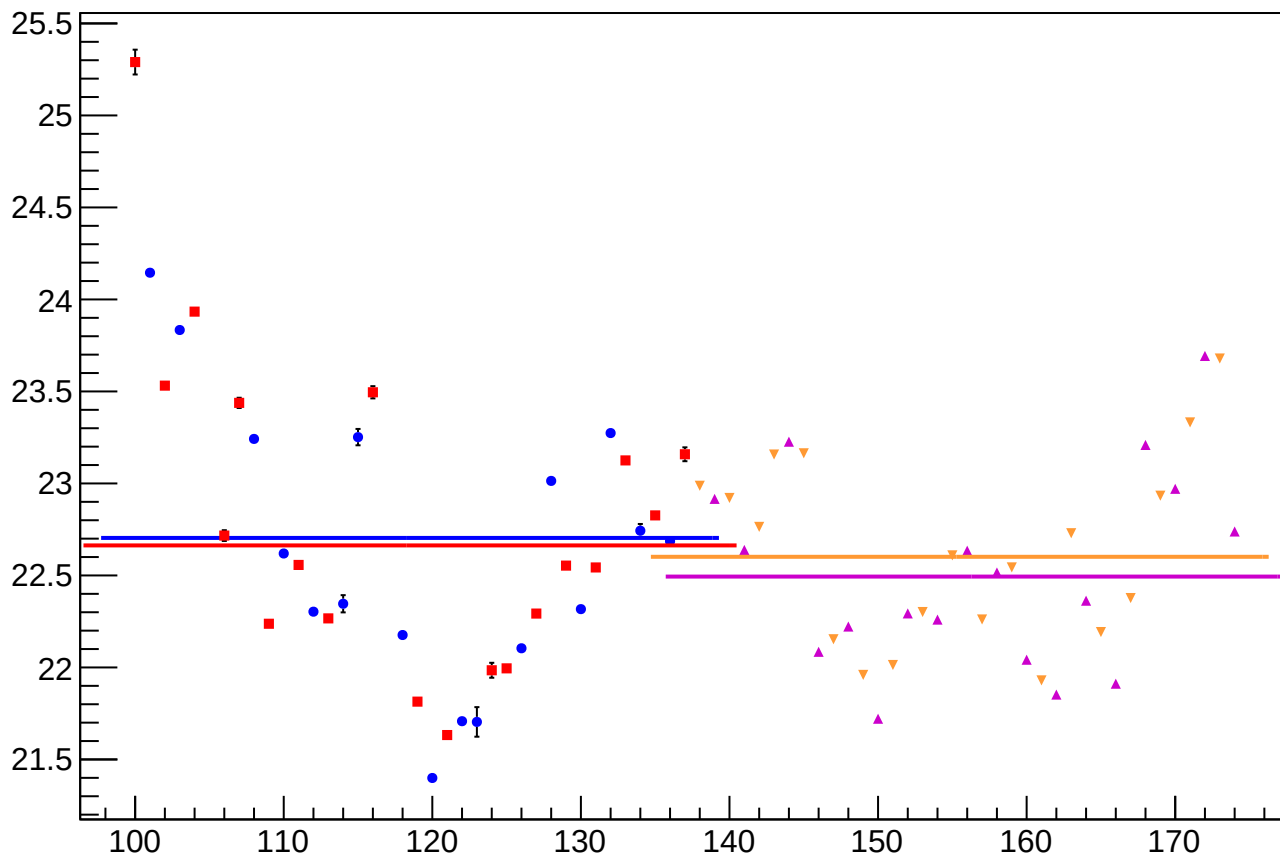
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 8.106 ± 4.965 $\chi^2/\text{NDF}: 32.5/34$

Out: 7.764 ± 4.895 $\chi^2/\text{NDF}: 43.5/37$

All: 7.932 ± 3.486 $\chi^2/\text{NDF}: 76.1/72$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.704 $\pm$ 0.006 χ^2 /NDF: 14105.8/16

Left Out: 22.601 $\pm$ 0.004 χ^2 /NDF:13310.9/18

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.494 $\pm$ 0.004 χ^2 /NDF:14473.4/17

Left: 22.548 $\pm$ 0.003 χ^2 /NDF: 28104.0/36

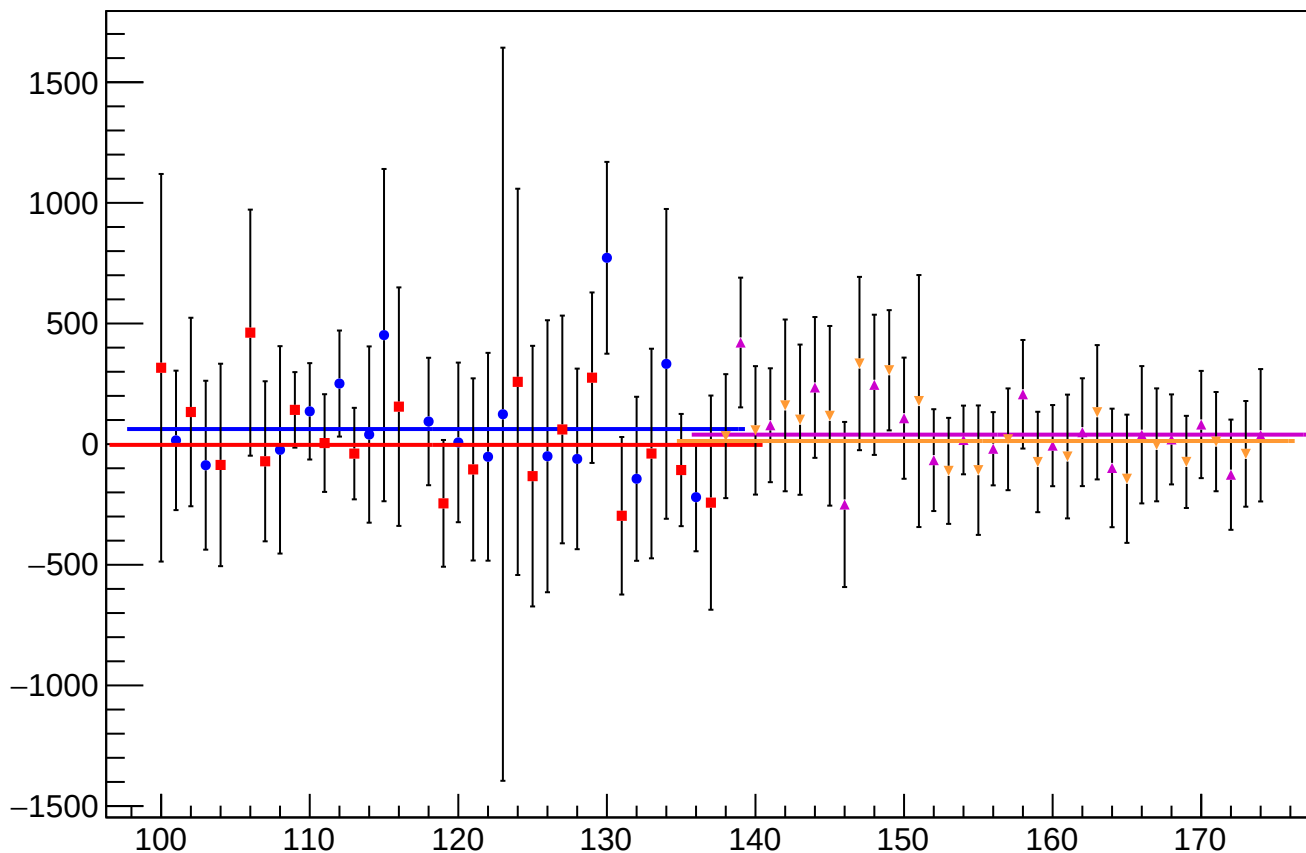
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.561 $\pm$ 0.004 χ^2 /NDF:29360.7/34

Out: 22.622 $\pm$ 0.003 χ^2 /NDF:26325.3/37

All: 22.592 $\pm$ 0.002 χ^2 /NDF: 55836.6/72

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573 $\pm$ 79.605 χ^2 /NDF: 7.0/16

Left Out: 12.978 $\pm$ 58.238 χ^2 /NDF:4.2/18

Right Out: -3.038 $\pm$ 70.518 χ^2 /NDF: 5.2/18

Left In: 39.402 $\pm$ 51.267 χ^2 /NDF:5.7/17

Left: 27.865 $\pm$ 38.481 χ^2 /NDF: 10.1/36

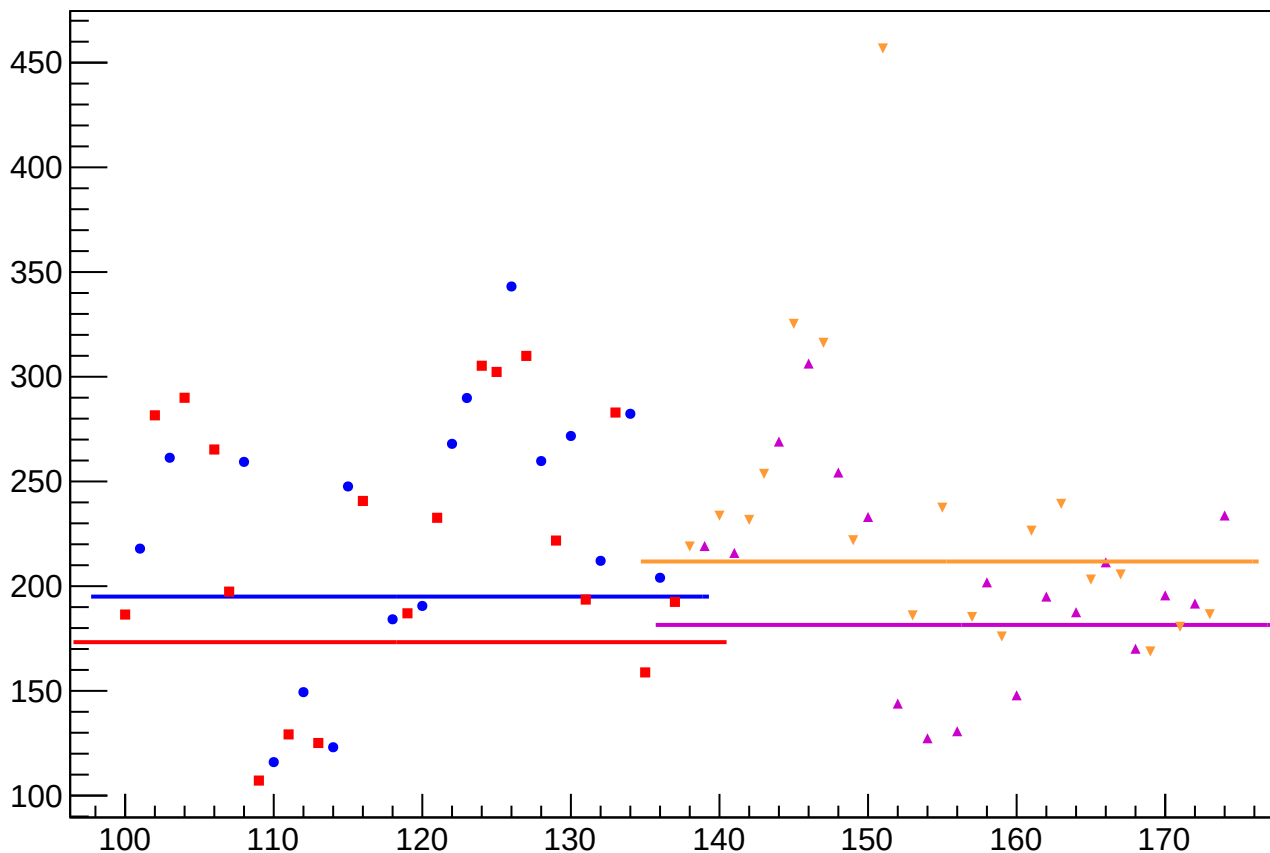
Right: 25.811 $\pm$ 52.785 χ^2 /NDF: 12.6/35

In: 46.195 $\pm$ 43.102 χ^2 /NDF:12.8/34

Out: 6.484 $\pm$ 44.904 χ^2 /NDF:9.5/37

All: 27.152 $\pm$ 31.095 χ^2 /NDF: 22.7/72

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022+/-0.056 χ^2/NDF : 1004284.9/16

Left Out: 211.780+/-0.041 χ^2/NDF : 1195712.5/18

Right Out: 173.262+/-0.050 χ^2/NDF : 1578202.7/18

Left In: 181.493+/-0.036 χ^2/NDF : 1532678.9/17

Left: 194.716+/-0.027 χ^2/NDF : 3033142.4/36

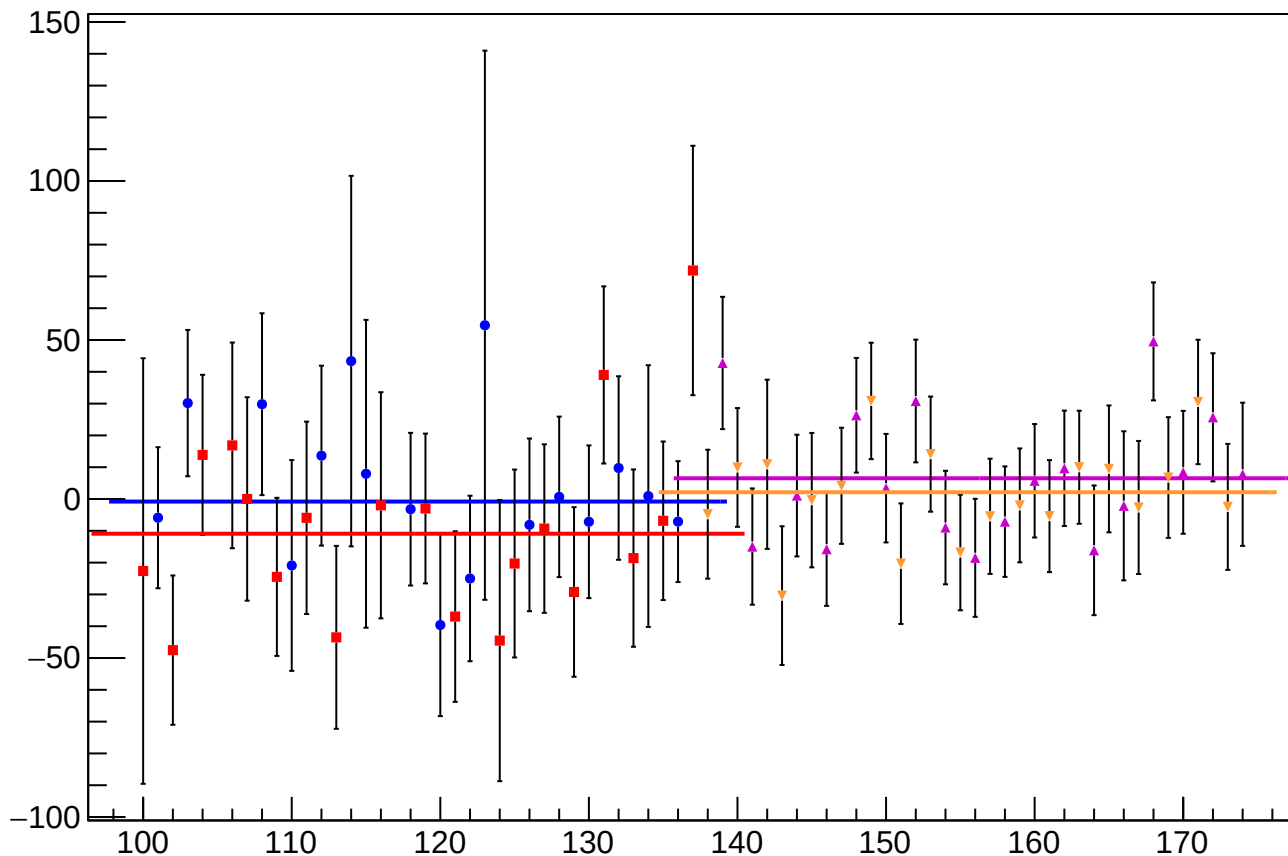
Right: 182.829+/-0.037 χ^2/NDF : 2666222.6/35

In: 185.459+/-0.030 χ^2/NDF : 2577793.8/34

Out: 196.161+/-0.032 χ^2/NDF : 3128674.6/37

All: 190.591+/-0.022 χ^2/NDF : 5765594.4/72

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: 2.129 ± 4.419 χ^2/NDF : 11.1/18

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 6.527 ± 4.465 χ^2/NDF : 19.8/17

Left: 4.306 ± 3.141 χ^2/NDF : 31.3/36

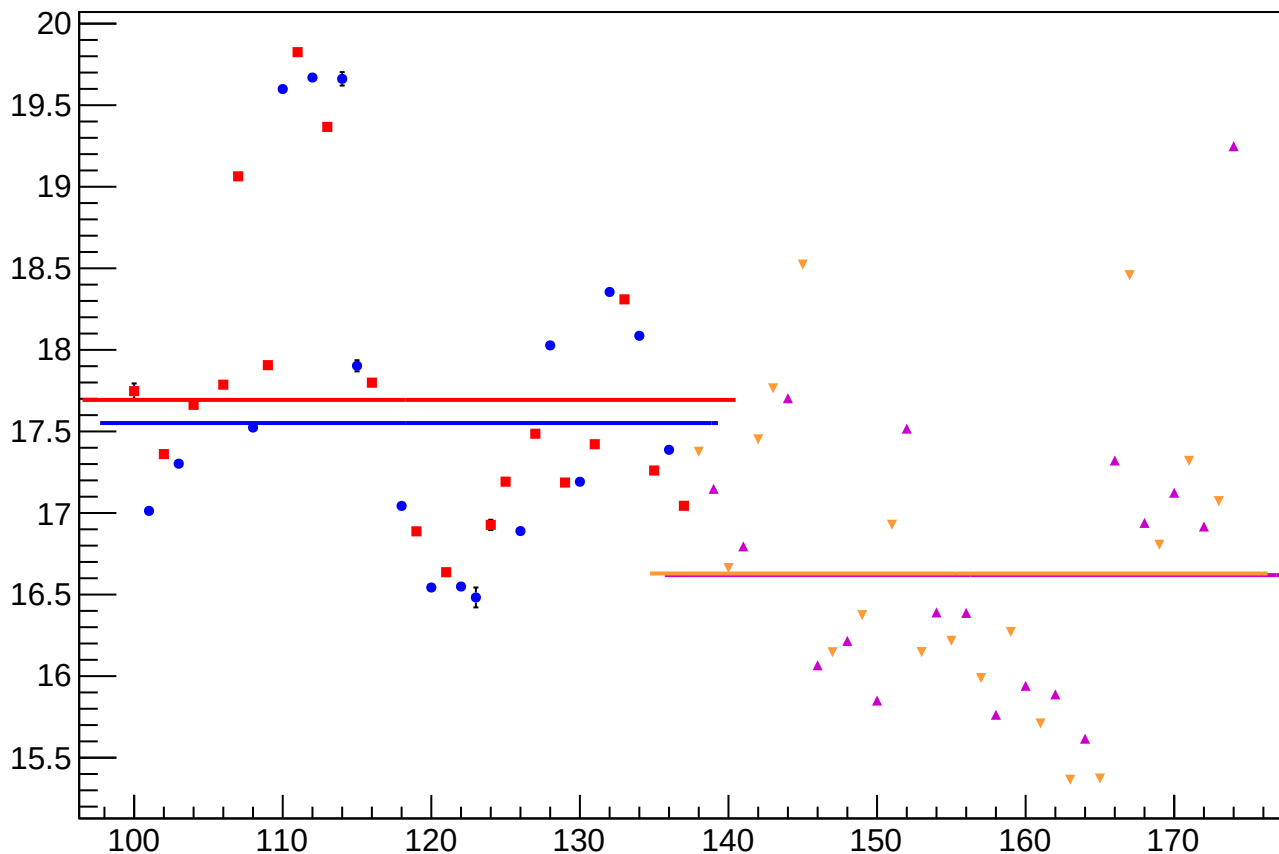
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 4.306 ± 3.727 χ^2/NDF : 28.4/34

Out: -1.886 ± 3.677 χ^2/NDF : 29.7/37

All: 1.168 ± 2.617 χ^2/NDF : 59.4/72

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 ± 0.005 $\chi^2/\text{NDF}: 34027.1/16$

Left Out: 16.629 ± 0.003 $\chi^2/\text{NDF}: 76605.4/18$

Right Out: 17.693 ± 0.005 $\chi^2/\text{NDF}: 30742.0/18$

Left In: 16.619 ± 0.003 $\chi^2/\text{NDF}: 67170.4/17$

Left: 16.624 ± 0.002 $\chi^2/\text{NDF}: 143780.8/36$

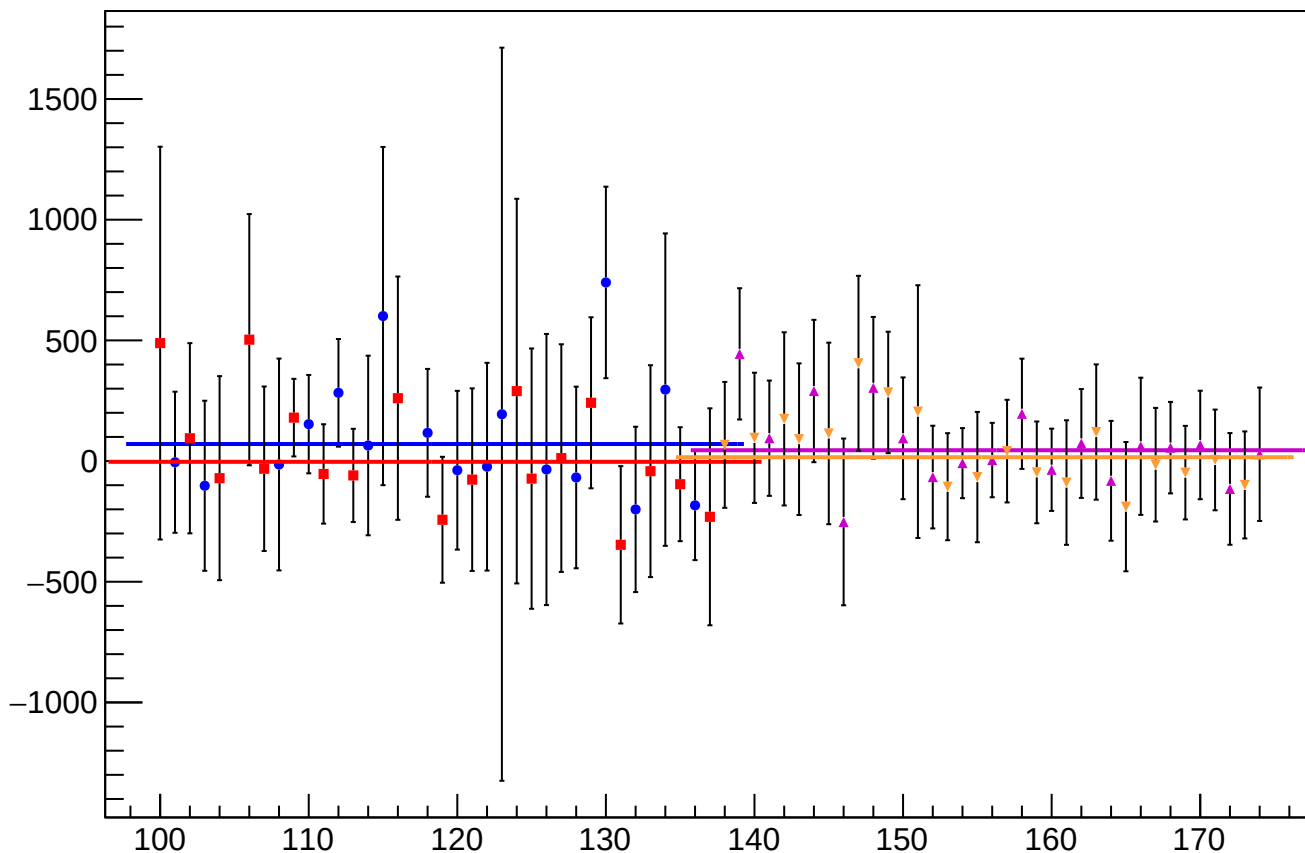
Right: 17.624 ± 0.003 $\chi^2/\text{NDF}: 65217.7/35$

In: 16.902 ± 0.003 $\chi^2/\text{NDF}: 127624.0/34$

Out: 16.957 ± 0.003 $\chi^2/\text{NDF}: 143043.7/37$

All: 16.930 ± 0.002 $\chi^2/\text{NDF}: 270888.7/72$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634 $\pm$ 80.409 χ^2 /NDF: 7.2/16

Left Out: 16.004 $\pm$ 58.843 χ^2 /NDF:4.7/18

Right Out: -3.063 $\pm$ 71.508 χ^2 /NDF: 6.2/18

Left In: 44.879 $\pm$ 51.911 χ^2 /NDF:6.4/17

Left: 32.242 $\pm$ 38.928 χ^2 /NDF: 11.2/36

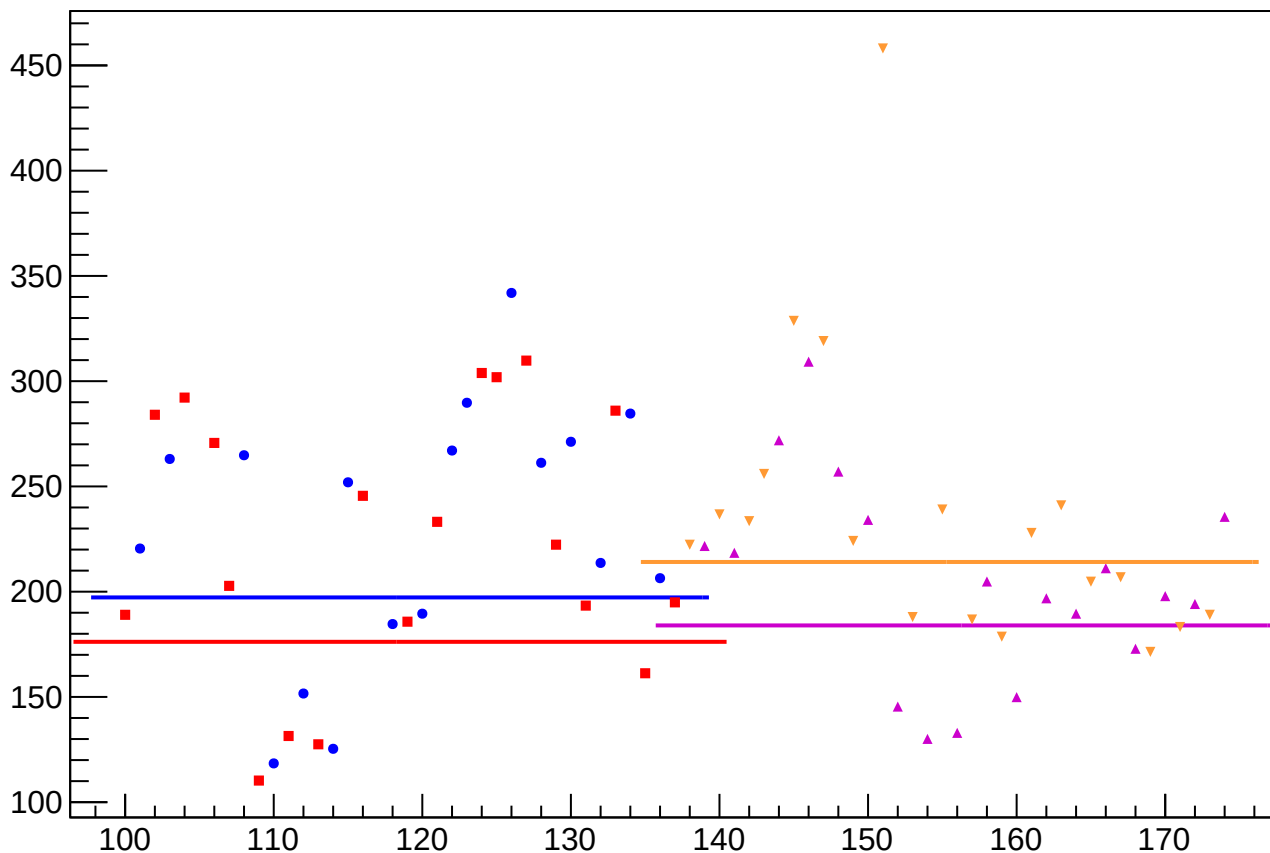
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 52.456 $\pm$ 43.612 χ^2 /NDF:13.6/34

Out: 8.305 $\pm$ 45.437 χ^2 /NDF:10.9/37

All: 31.285 $\pm$ 31.464 χ^2 /NDF: 25.0/72

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271 $\pm$ 0.057 χ^2 /NDF: 969549.7/16

Left Out: 214.117 $\pm$ 0.042 χ^2 /NDF:1177474.0/18

Right Out: 176.181 $\pm$ 0.051 χ^2 /NDF: 1519707.5/18

Left In: 183.968 $\pm$ 0.037 χ^2 /NDF:1494982.5/17

Left: 197.163 $\pm$ 0.028 χ^2 /NDF: 2967696.4/36

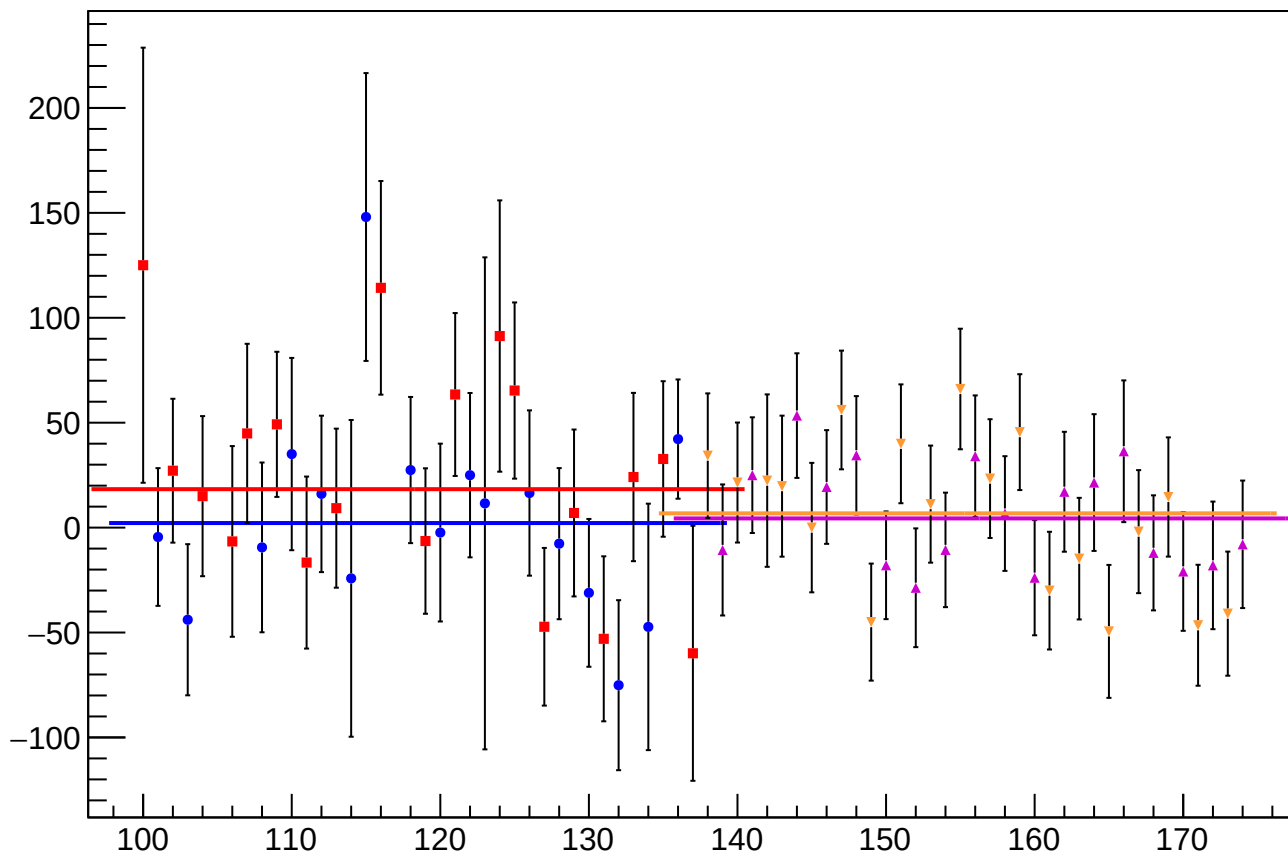
Right: 185.494 $\pm$ 0.038 χ^2 /NDF: 2566089.1/35

In: 187.882 $\pm$ 0.031 χ^2 /NDF:2503169.8/34

Out: 198.800 $\pm$ 0.032 χ^2 /NDF:3032812.7/37

All: 193.117 $\pm$ 0.022 χ^2 /NDF: 5596090.8/72

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 6.796 ± 6.752 $\chi^2/\text{NDF}: 27.5/18$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: 4.377 ± 6.765 $\chi^2/\text{NDF}: 12.7/17$

Left: 5.588 ± 4.779 $\chi^2/\text{NDF}: 40.3/36$

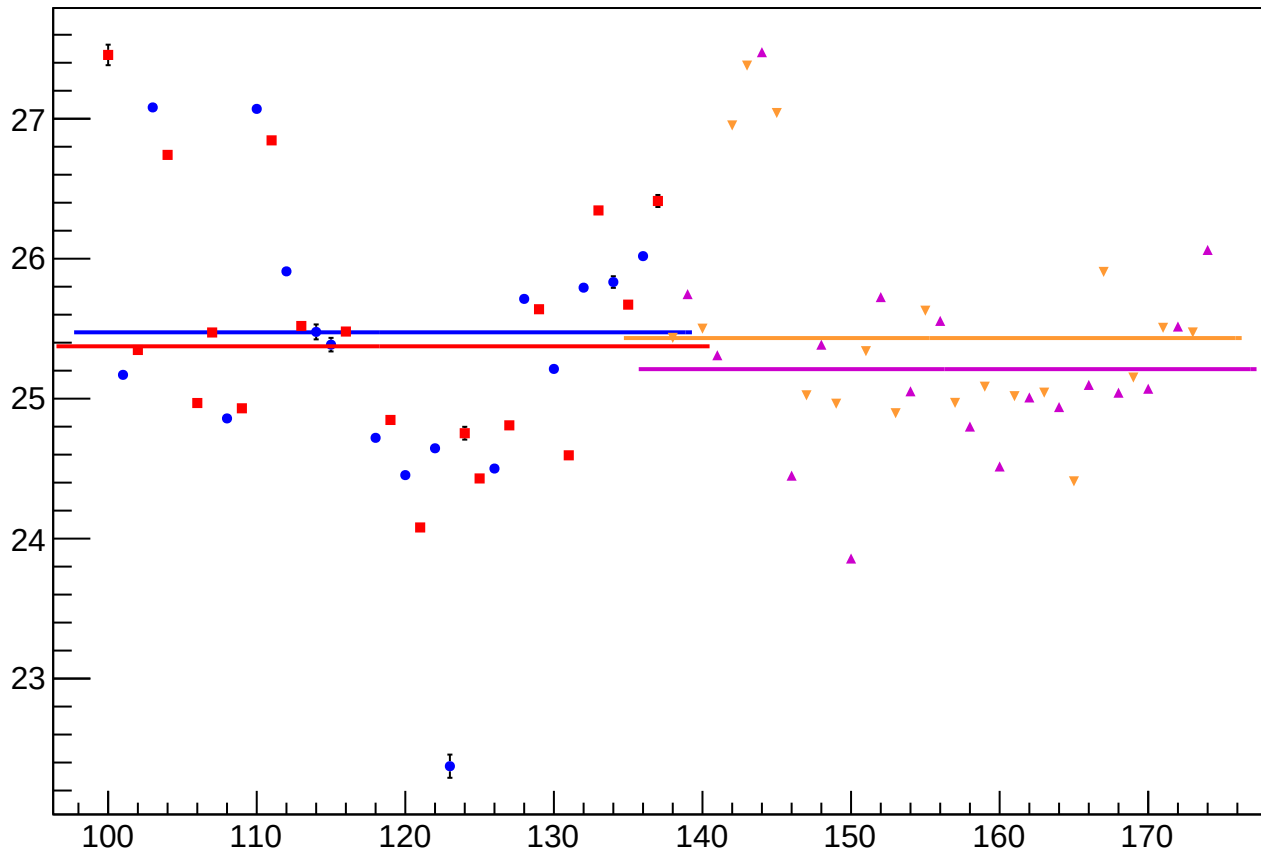
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 3.669 ± 5.572 $\chi^2/\text{NDF}: 28.1/34$

Out: 10.665 ± 5.503 $\chi^2/\text{NDF}: 48.1/37$

All: 7.211 ± 3.915 $\chi^2/\text{NDF}: 77.0/72$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474+/-0.007 χ^2/NDF : 14061.2/16

Left Out: 25.433+/-0.005 χ^2/NDF : 21207.4/18

Right Out: 25.374+/-0.007 χ^2/NDF : 13581.2/18

Left In: 25.211+/-0.005 χ^2/NDF : 24364.8/17

Left: 25.322+/-0.003 χ^2/NDF : 46652.1/36

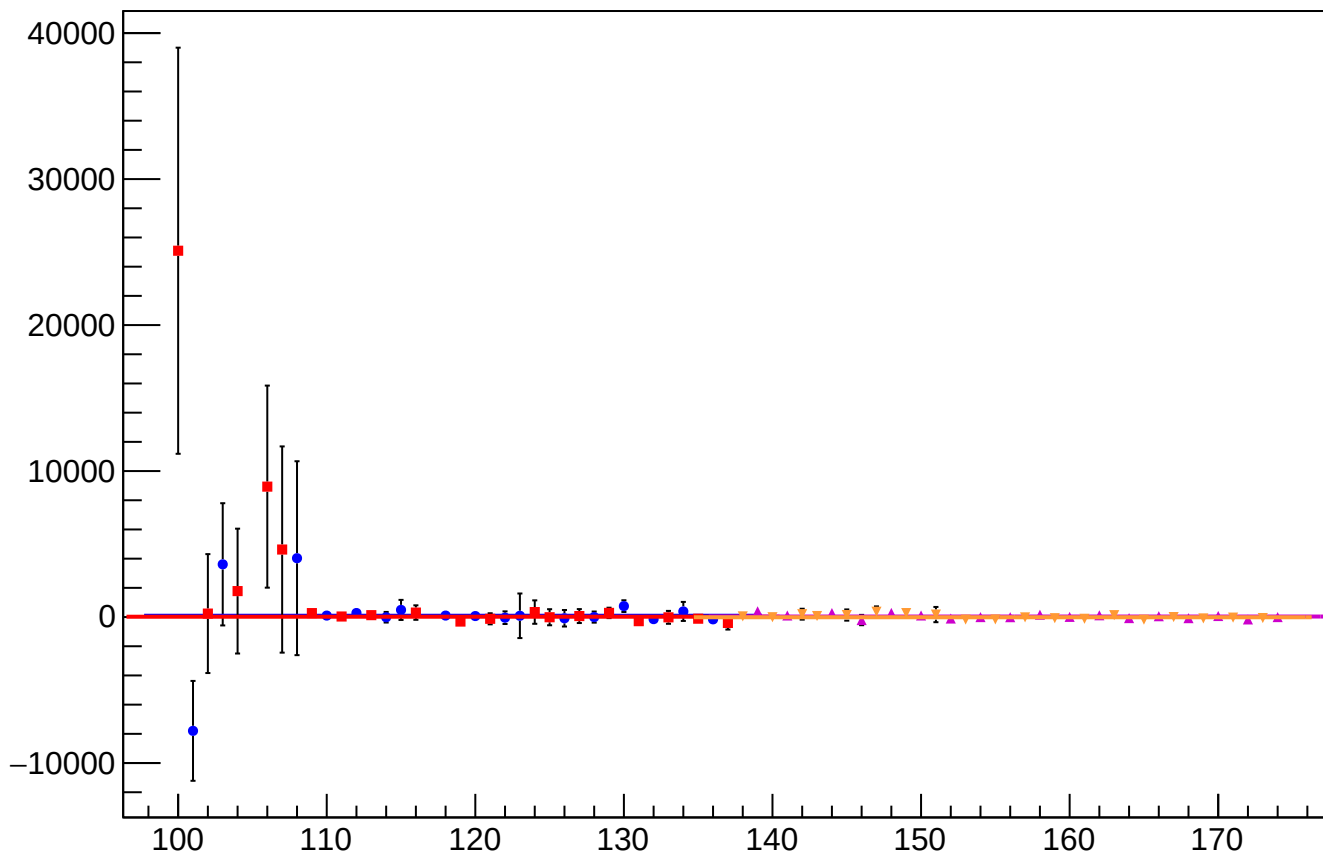
Right: 25.422+/-0.005 χ^2/NDF : 27749.4/35

In: 25.295+/-0.004 χ^2/NDF : 39399.0/34

Out: 25.413+/-0.004 χ^2/NDF : 34839.8/37

All: 25.355+/-0.003 χ^2/NDF : 74690.5/72

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: -14.249+/-59.252 χ^2/NDF : 4.9/18

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 35.887+/-52.456 χ^2/NDF : 6.1/17

Left: 13.858+/-39.276 χ^2/NDF : 11.4/36

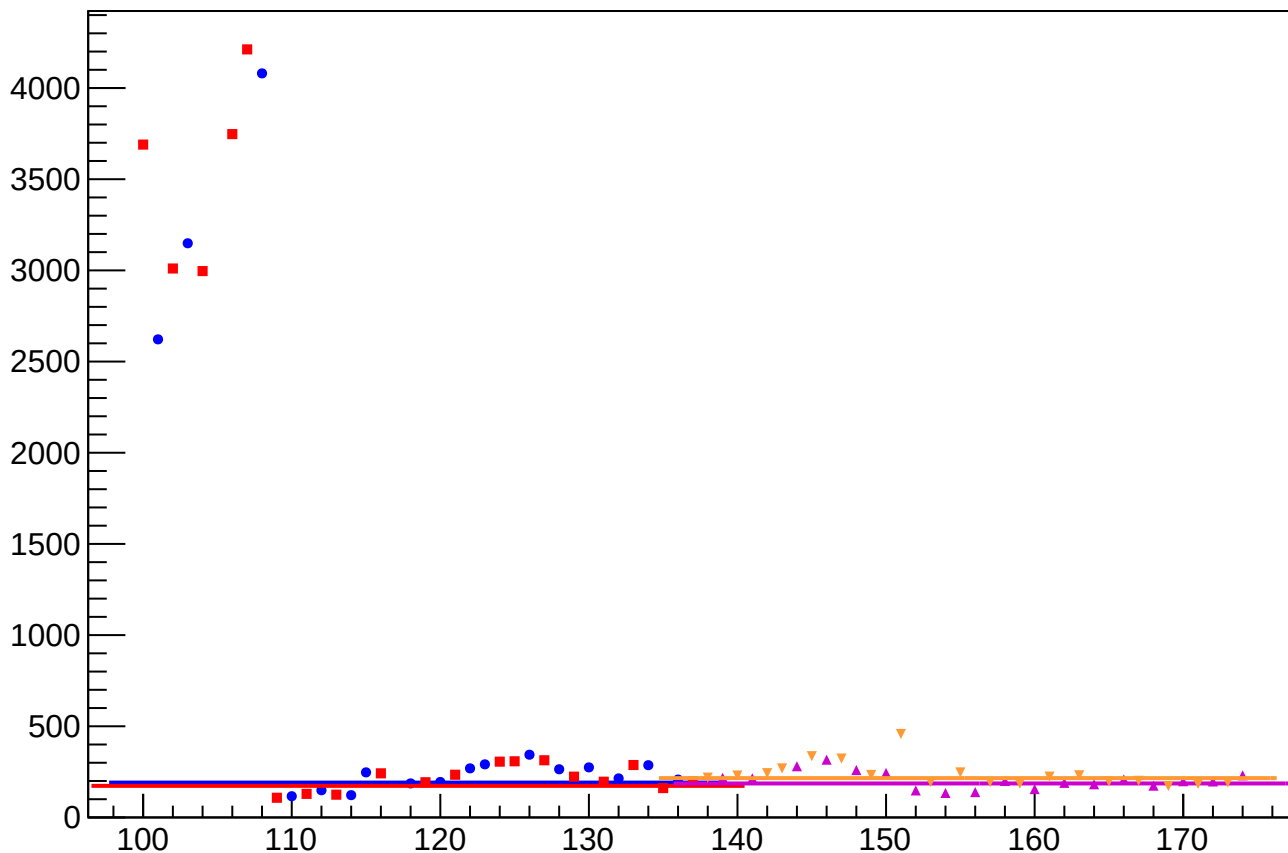
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 50.062+/-45.009 χ^2/NDF : 18.6/34

Out: -1.379+/-47.803 χ^2/NDF : 16.9/37

All: 25.889+/-32.769 χ^2/NDF : 36.2/72

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190+/-0.062 χ^2/NDF : 3571747.5/16

Left Out: 215.718+/-0.042 χ^2/NDF :1175081.8/18

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 186.423+/-0.037 χ^2/NDF :1372276.4/17

Left: 199.295+/-0.028 χ^2/NDF : 2821429.2/36

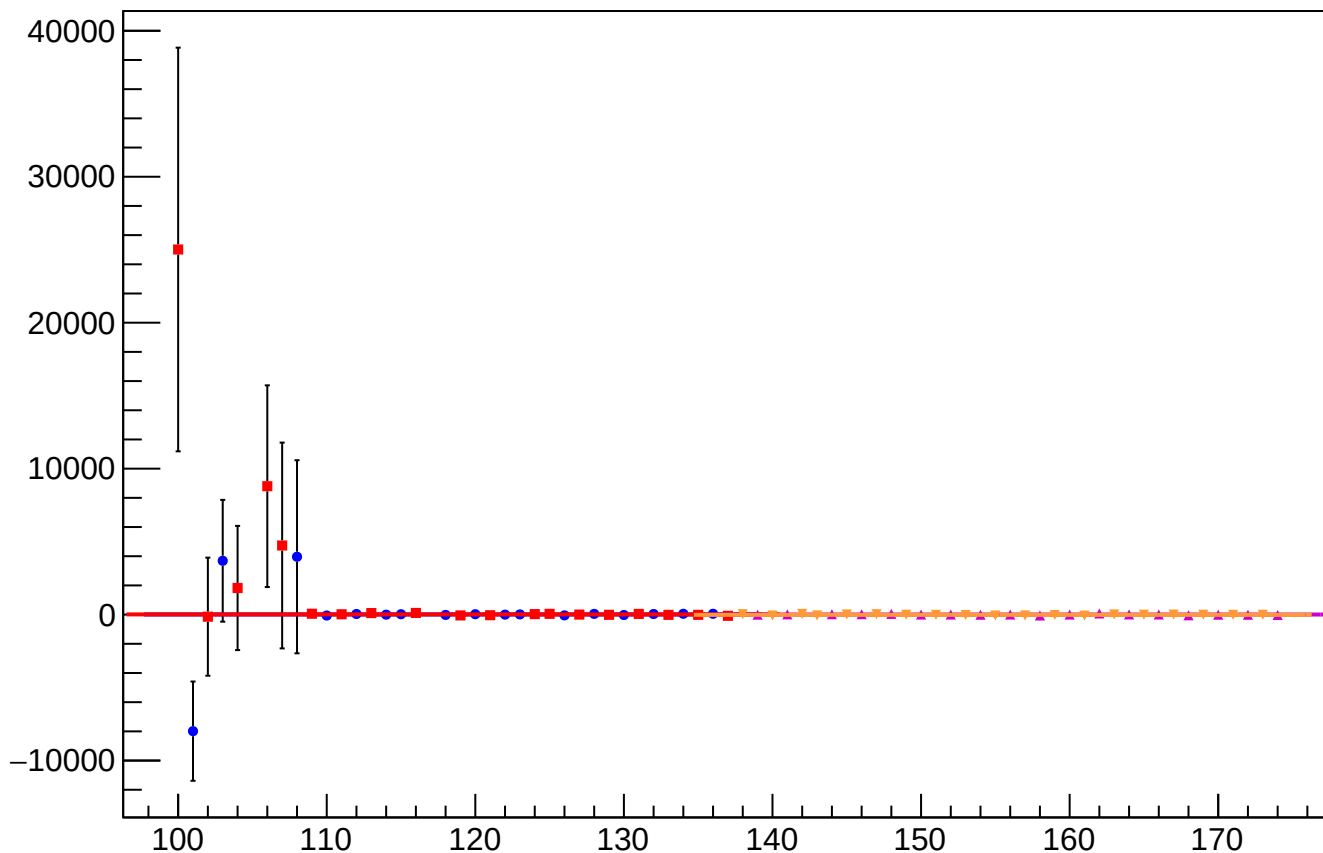
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 187.681+/-0.032 χ^2/NDF :4948381.2/34

Out: 200.898+/-0.034 χ^2/NDF :5740647.2/37

All: 193.892+/-0.023 χ^2/NDF : 10770076.5/72

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -17.311+/-7.680 χ^2/NDF :16.2/18

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 4.781+/-7.728 χ^2/NDF :18.7/17

Left: -6.333+/-5.447 χ^2/NDF : 38.9/36

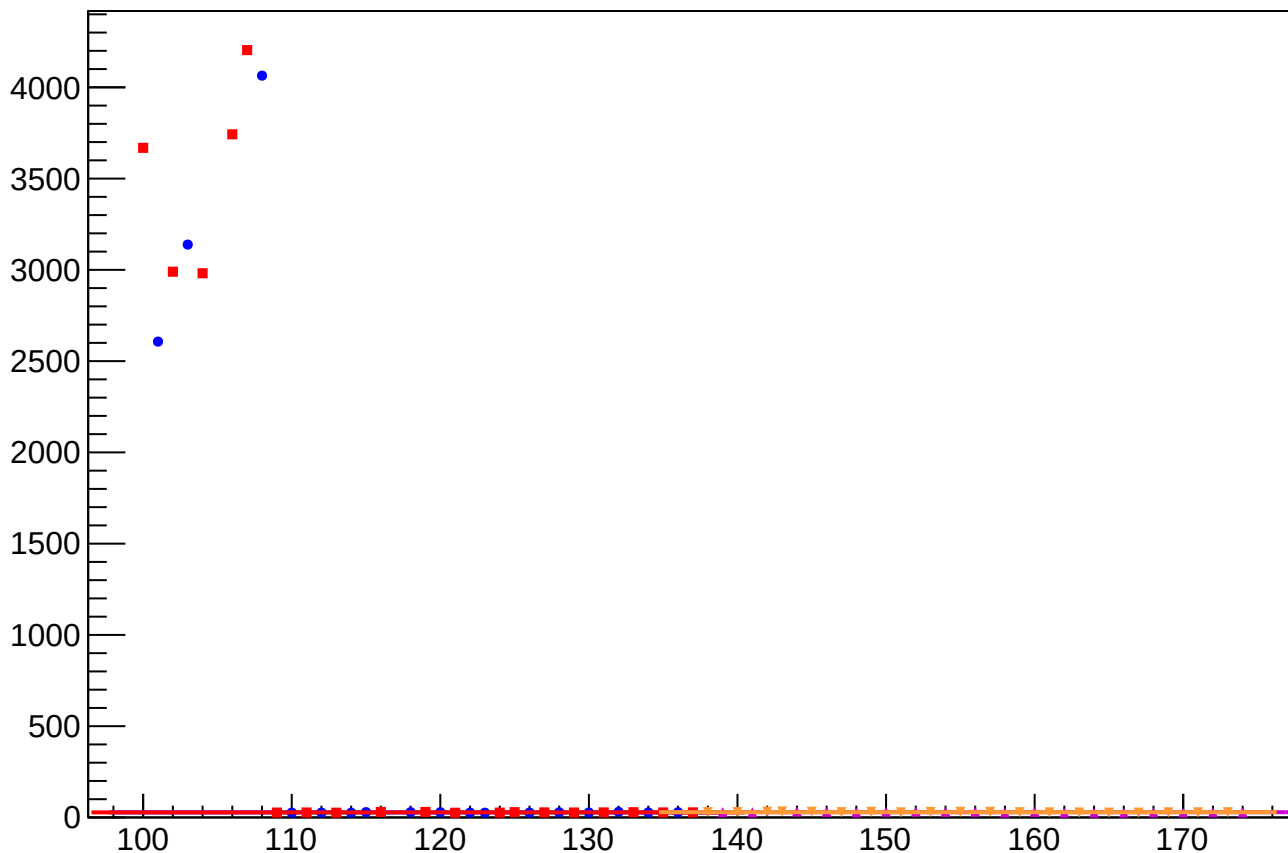
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 6.391+/-6.527 χ^2/NDF :37.1/34

Out: -8.751+/-6.504 χ^2/NDF :45.0/37

All: -1.207+/-4.607 χ^2/NDF : 84.7/72

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 28.871 $\pm$ 0.005 χ^2 /NDF: 96581.4/18

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.728 $\pm$ 0.005 χ^2 /NDF: 114990.1/17

Left: 28.800 $\pm$ 0.004 χ^2 /NDF: 211913.0/36

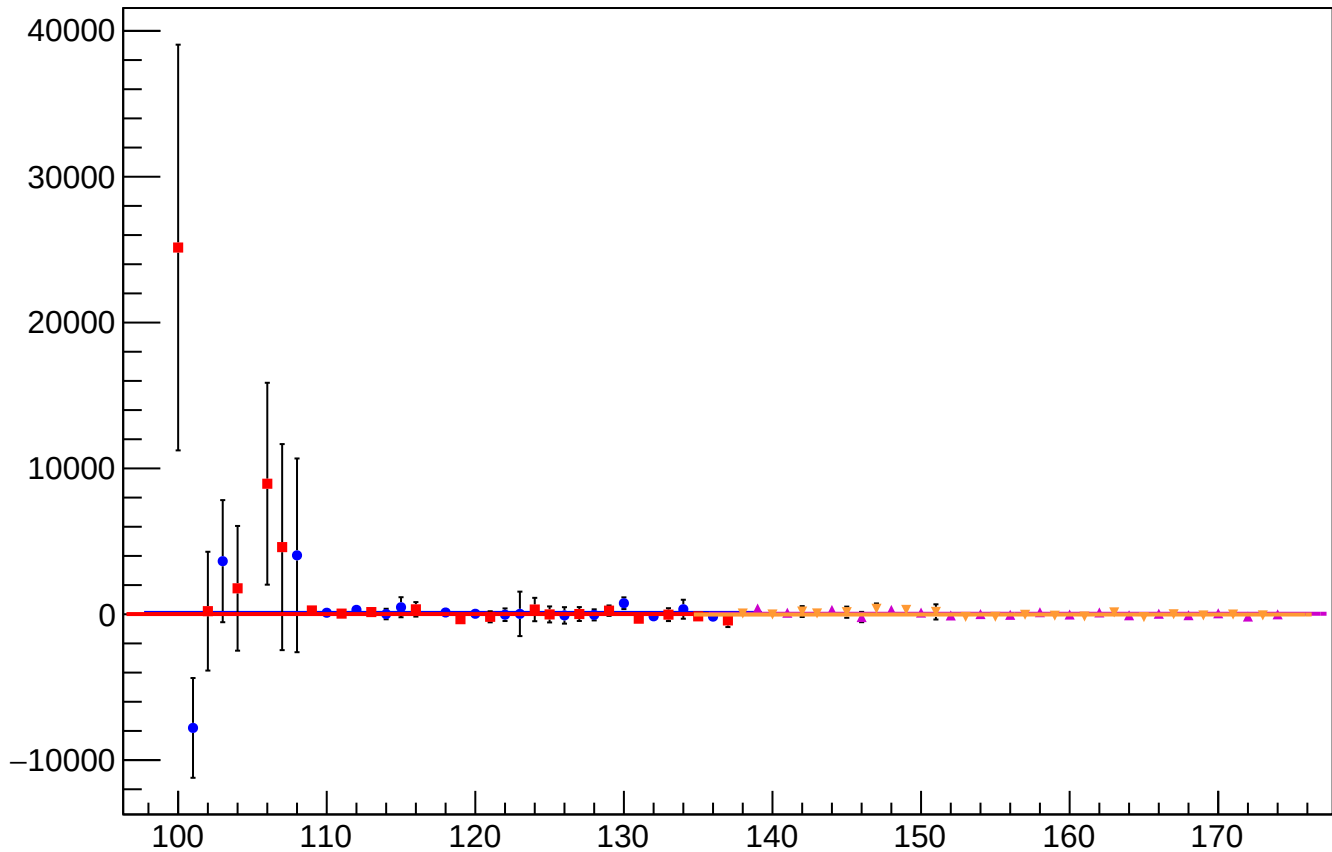
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.473 $\pm$ 0.005 χ^2 /NDF: 3149510.7/34

Out: 28.538 $\pm$ 0.005 χ^2 /NDF: 3586661.7/37

All: 28.505 $\pm$ 0.003 χ^2 /NDF: 6736272.3/72

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: -18.340+/-59.124 χ^2/NDF : 5.5/18

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 34.536+/-52.354 χ^2/NDF : 6.1/17

Left: 11.298+/-39.196 χ^2/NDF : 12.1/36

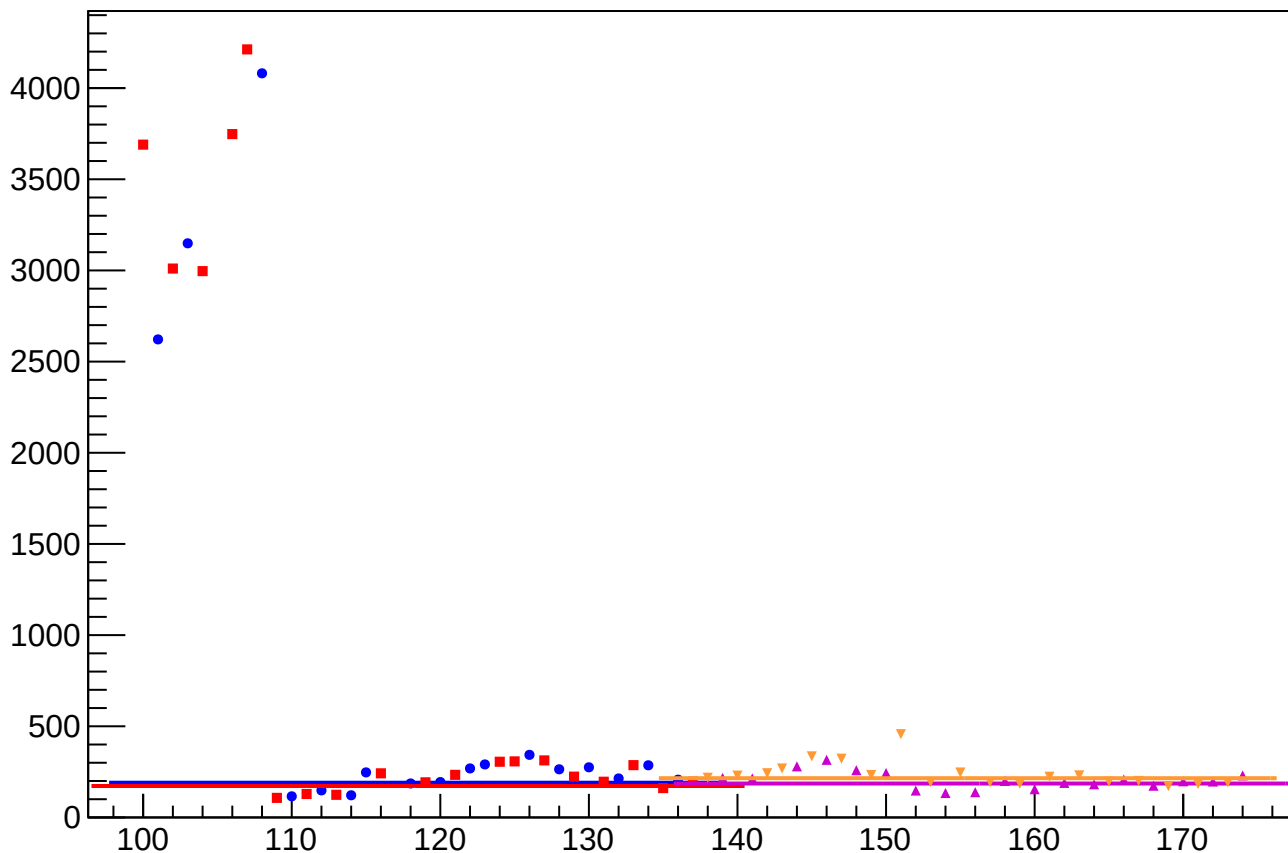
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 49.943+/-44.907 χ^2/NDF : 19.0/34

Out: -7.463+/-47.681 χ^2/NDF : 18.3/37

All: 22.959+/-32.691 χ^2/NDF : 38.1/72

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 215.257+/-0.042 χ^2/NDF : 1174733.8/18

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 186.062+/-0.037 χ^2/NDF : 1372006.3/17

Left: 198.893+/-0.028 χ^2/NDF : 2820059.2/36

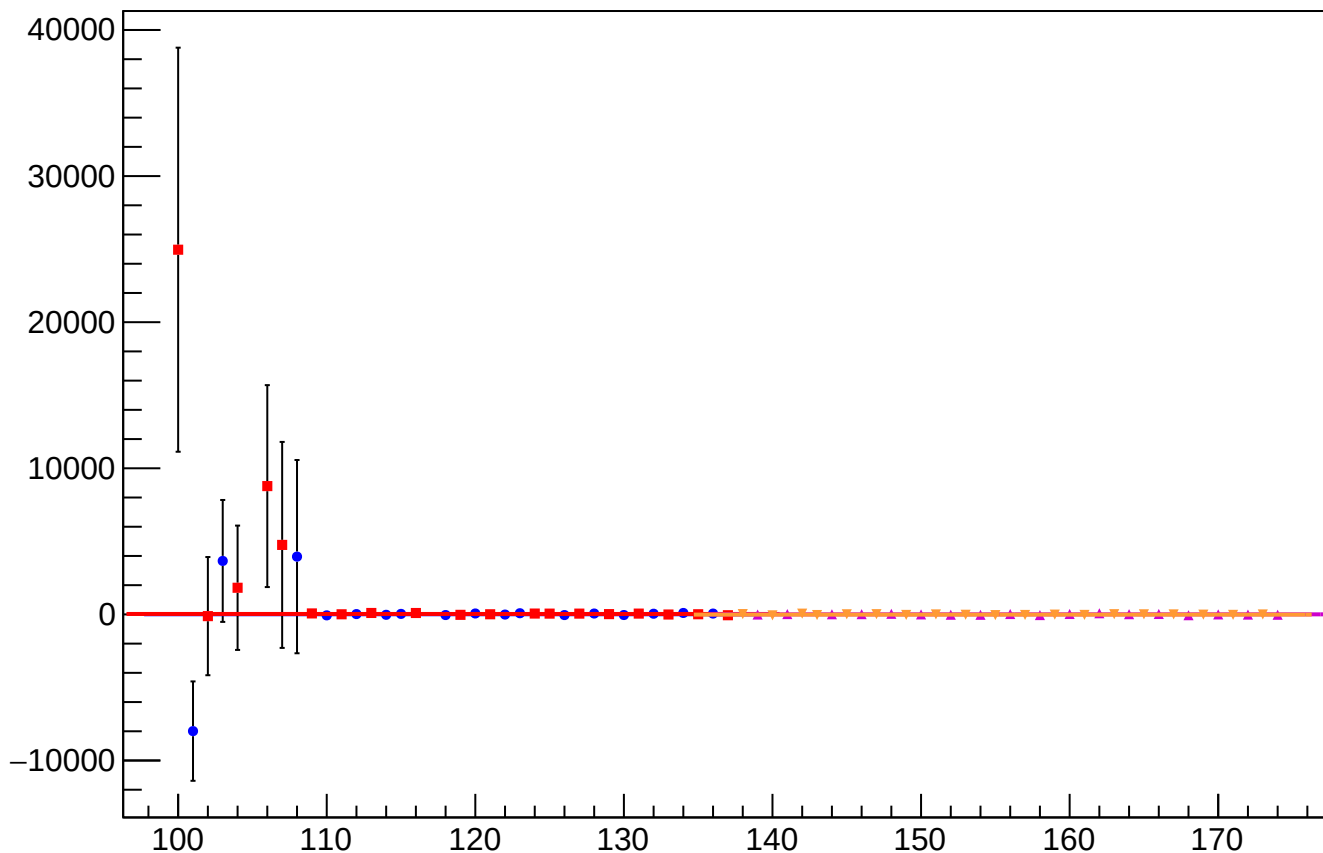
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 187.231+/-0.032 χ^2/NDF : 4959351.4/34

Out: 200.344+/-0.034 χ^2/NDF : 5757063.6/37

All: 193.395+/-0.023 χ^2/NDF : 10796566.4/72

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600+/-12.273 χ^2/NDF : 23.2/16

Left Out: -14.224+/-7.732 χ^2/NDF : 11.0/18

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 3.916+/-7.769 χ^2/NDF : 18.5/17

Left: -5.198+/-5.481 χ^2/NDF : 32.2/36

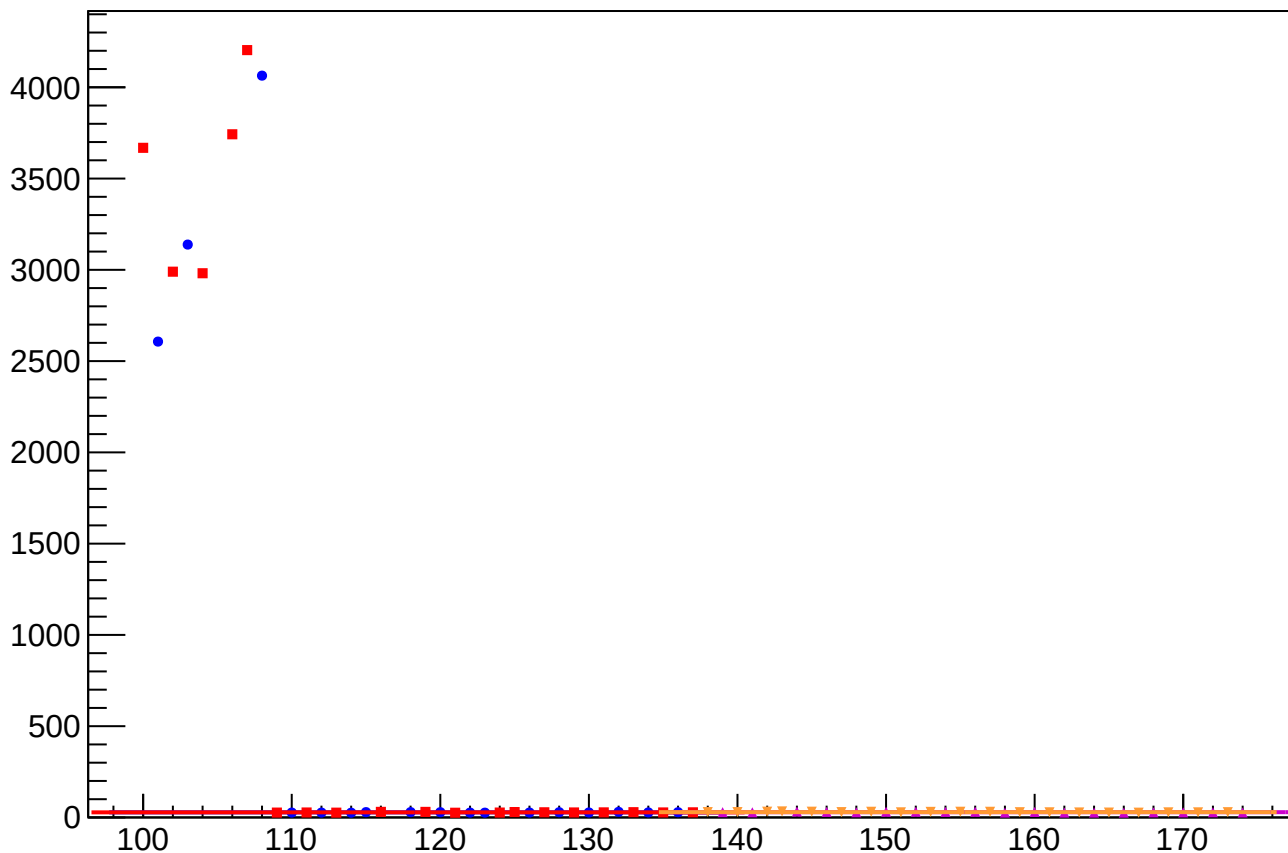
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 5.542+/-6.565 χ^2/NDF : 41.8/34

Out: -1.844+/-6.550 χ^2/NDF : 36.6/37

All: 1.841+/-4.637 χ^2/NDF : 79.0/72

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2/NDF : 3027003.0/16

Left Out: 29.062+/-0.005 χ^2/NDF : 102410.2/18

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 28.885+/-0.005 χ^2/NDF : 117472.6/17

Left: 28.974+/-0.004 χ^2/NDF : 220405.6/36

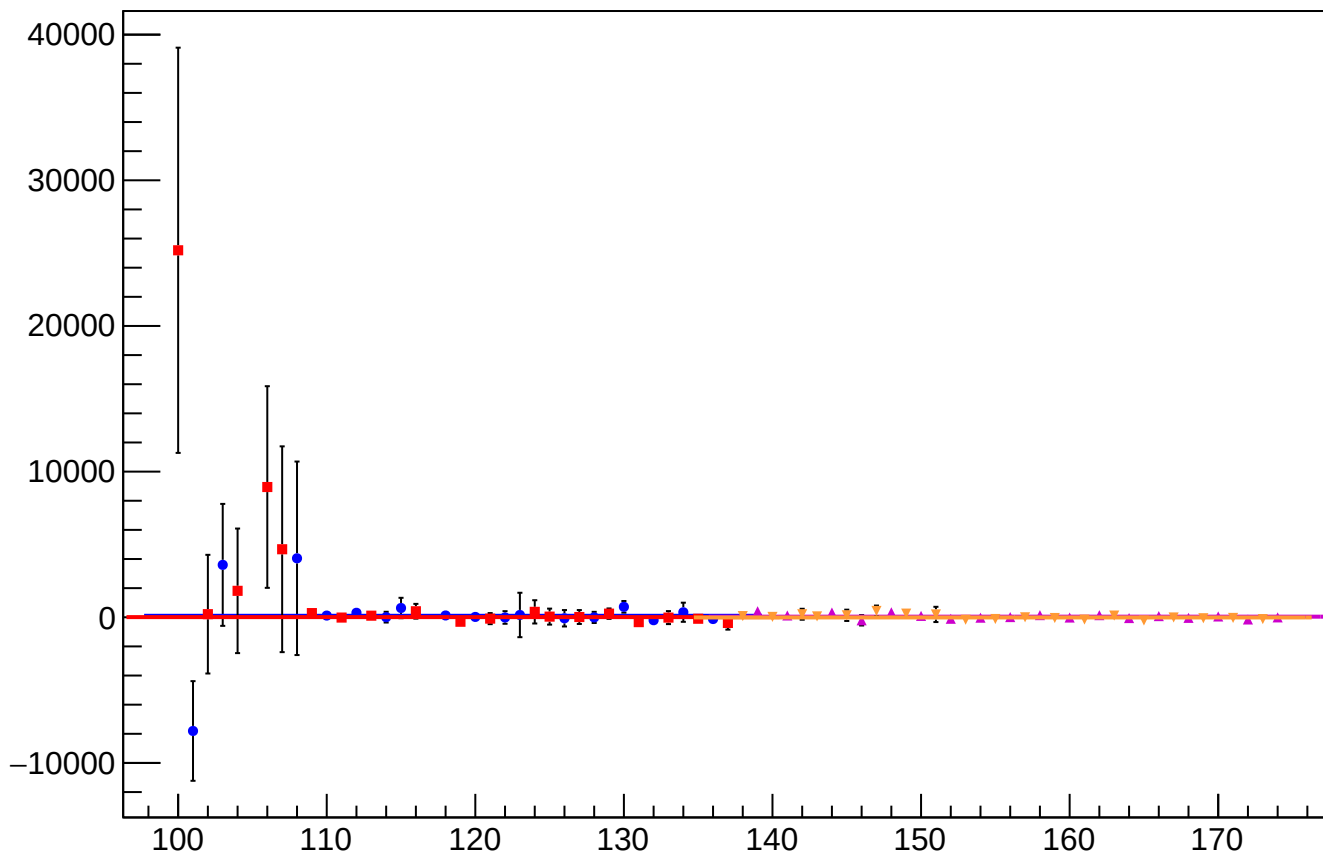
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.638+/-0.005 χ^2/NDF : 3151516.5/34

Out: 28.739+/-0.005 χ^2/NDF : 3594401.5/37

All: 28.689+/-0.003 χ^2/NDF : 6746153.1/72

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: -11.655 $\pm$ 59.835 χ^2 /NDF:5.5/18

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 41.916 $\pm$ 53.079 χ^2 /NDF:6.7/17

Left: 18.324 $\pm$ 39.707 χ^2 /NDF: 12.6/36

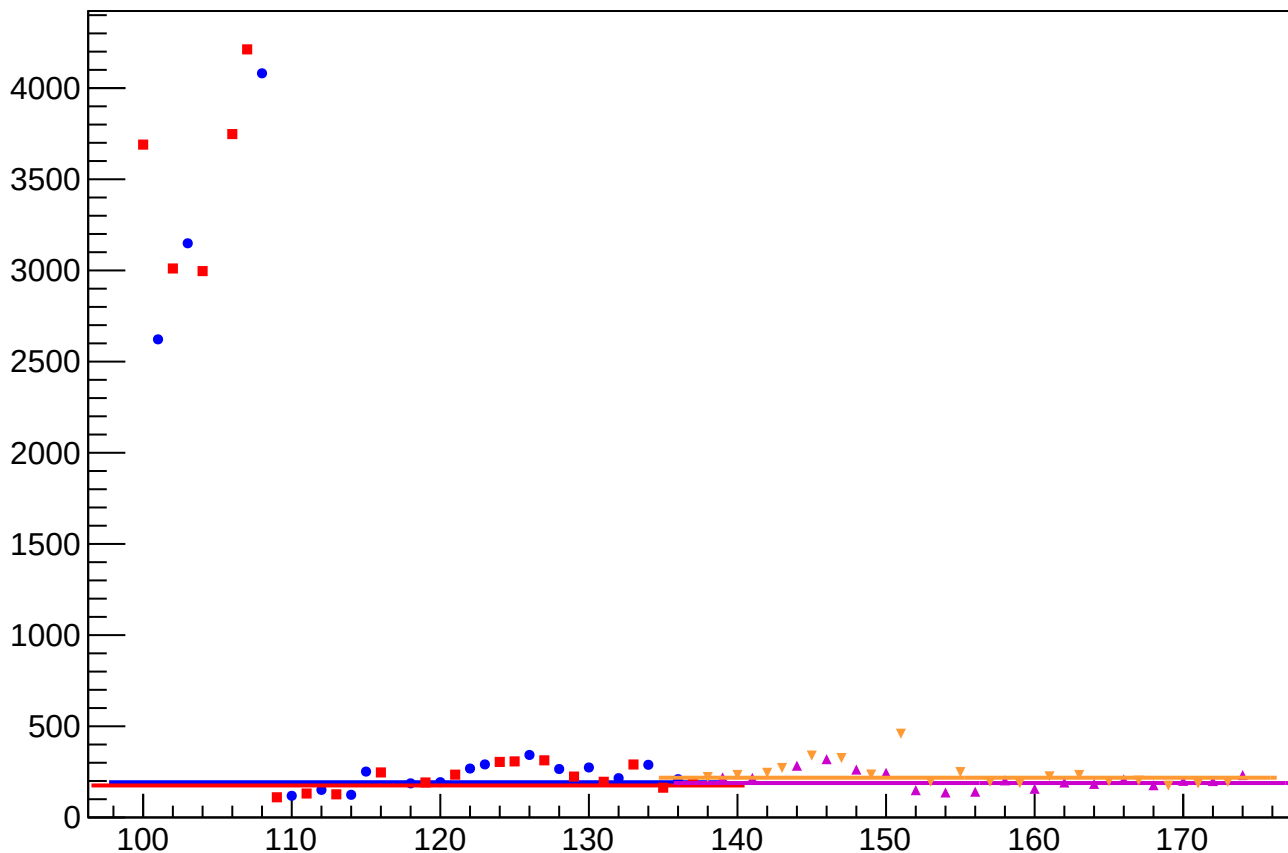
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 57.780 $\pm$ 45.505 χ^2 /NDF:19.4/34

Out: -3.670 $\pm$ 48.279 χ^2 /NDF:17.8/37

All: 28.871 $\pm$ 33.114 χ^2 /NDF: 38.0/72

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190+/-0.063 χ^2/NDF : 3536123.5/16

Left Out: 217.958+/-0.042 χ^2/NDF : 1160961.9/18

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 188.816+/-0.038 χ^2/NDF : 1339812.6/17

Left: 201.649+/-0.028 χ^2/NDF : 2766257.0/36

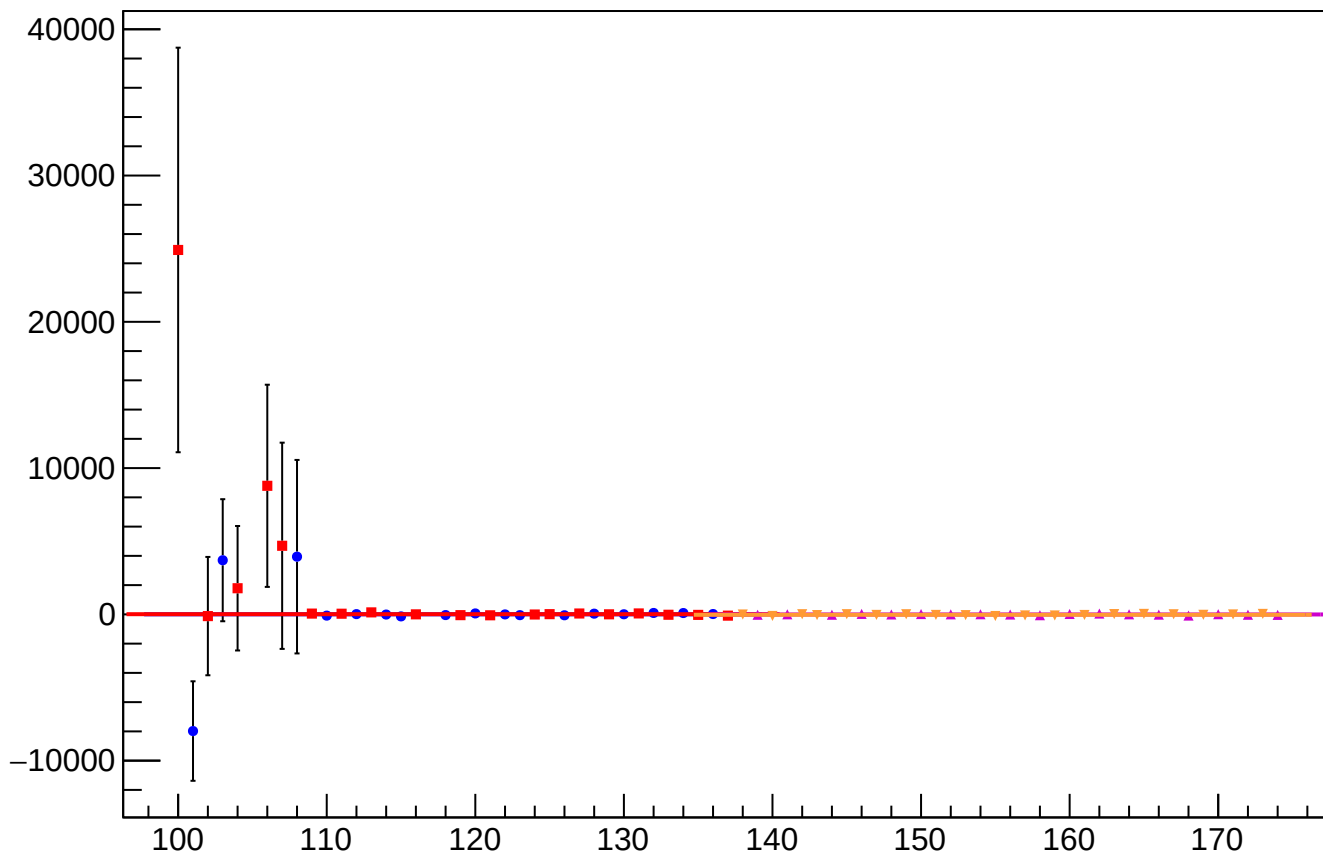
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 189.975+/-0.032 χ^2/NDF : 4879535.8/34

Out: 203.136+/-0.034 χ^2/NDF : 5678000.7/37

All: 196.167+/-0.023 χ^2/NDF : 10636241.6/72

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -27.457+/-9.227 χ^2/NDF : 21.0/18

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -5.526+/-9.302 χ^2/NDF : 12.8/17

Left: -16.581+/-6.551 χ^2/NDF : 36.6/36

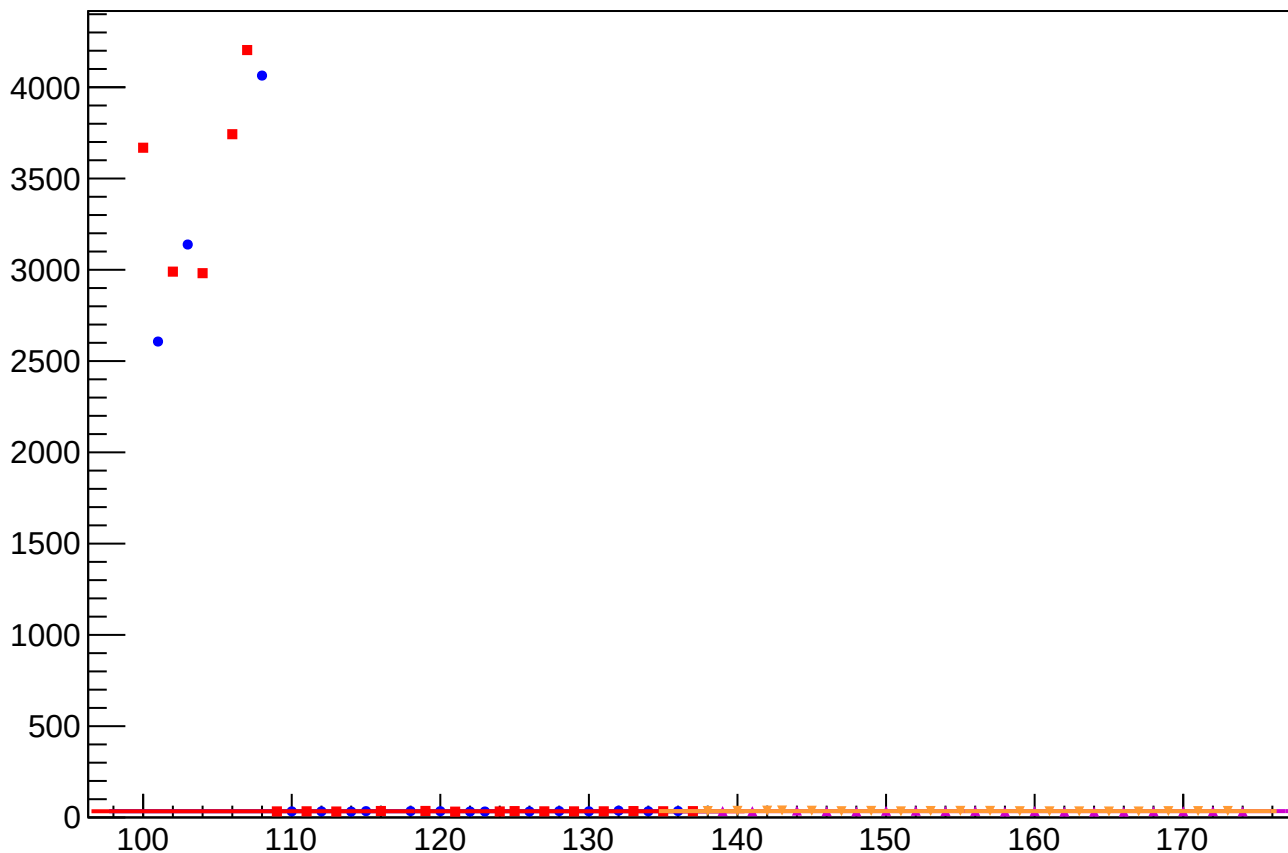
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -2.681+/-7.896 χ^2/NDF : 33.5/34

Out: -16.436+/-7.851 χ^2/NDF : 47.9/37

All: -9.598+/-5.567 χ^2/NDF : 82.9/72

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.137 $\pm$ 0.011 χ^2 /NDF: 3006248.0/16

Left Out: 34.738 $\pm$ 0.007 χ^2 /NDF:47303.8/18

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.647 $\pm$ 0.007 χ^2 /NDF:52751.0/17

Left: 34.693 $\pm$ 0.005 χ^2 /NDF: 100151.3/36

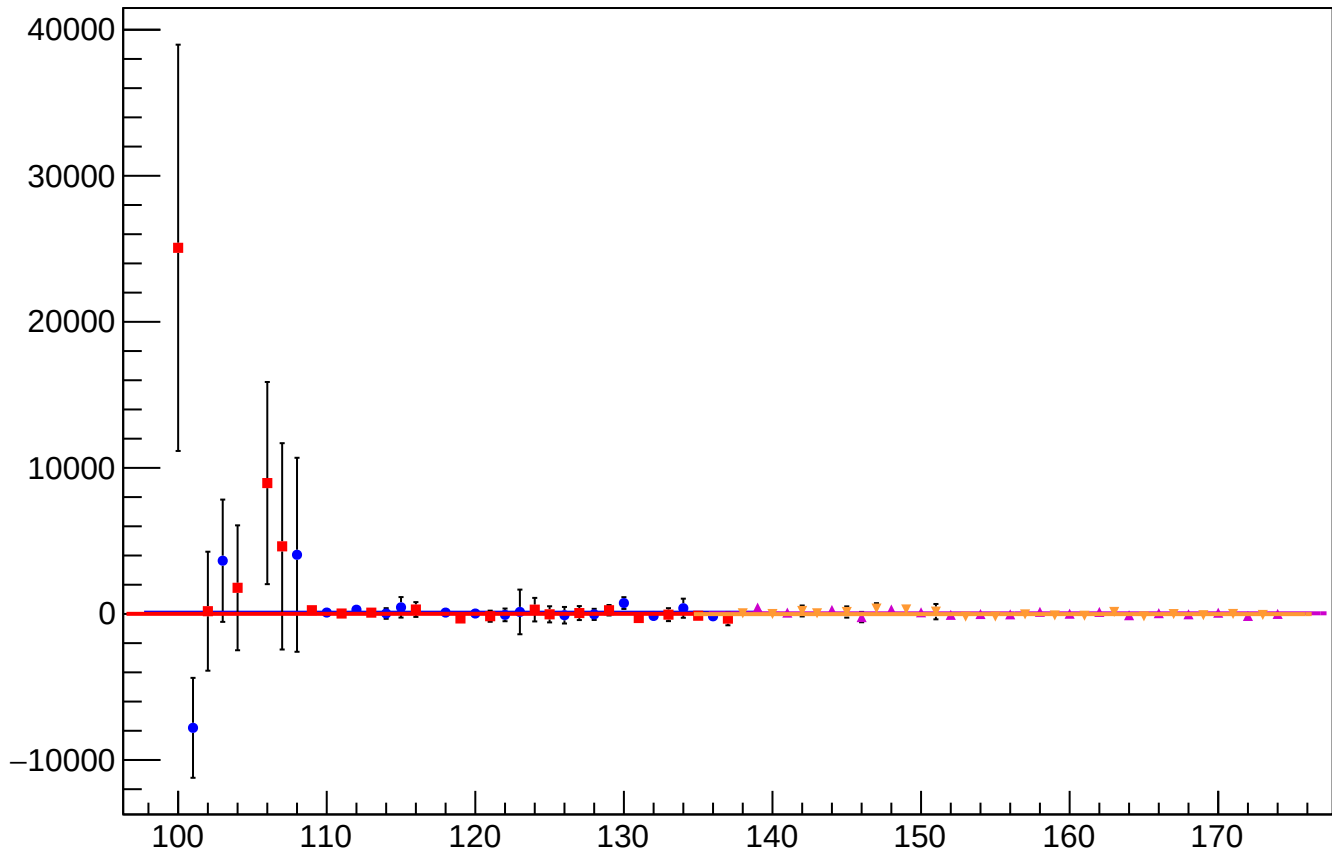
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.505 $\pm$ 0.006 χ^2 /NDF:3060677.2/34

Out: 34.510 $\pm$ 0.006 χ^2 /NDF:3503608.9/37

All: 34.507 $\pm$ 0.004 χ^2 /NDF: 6564286.6/72

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -13.974+/-59.712 χ^2/NDF : 5.3/18

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 43.299+/-52.953 χ^2/NDF : 6.0/17

Left: 18.086+/-39.618 χ^2/NDF : 11.9/36

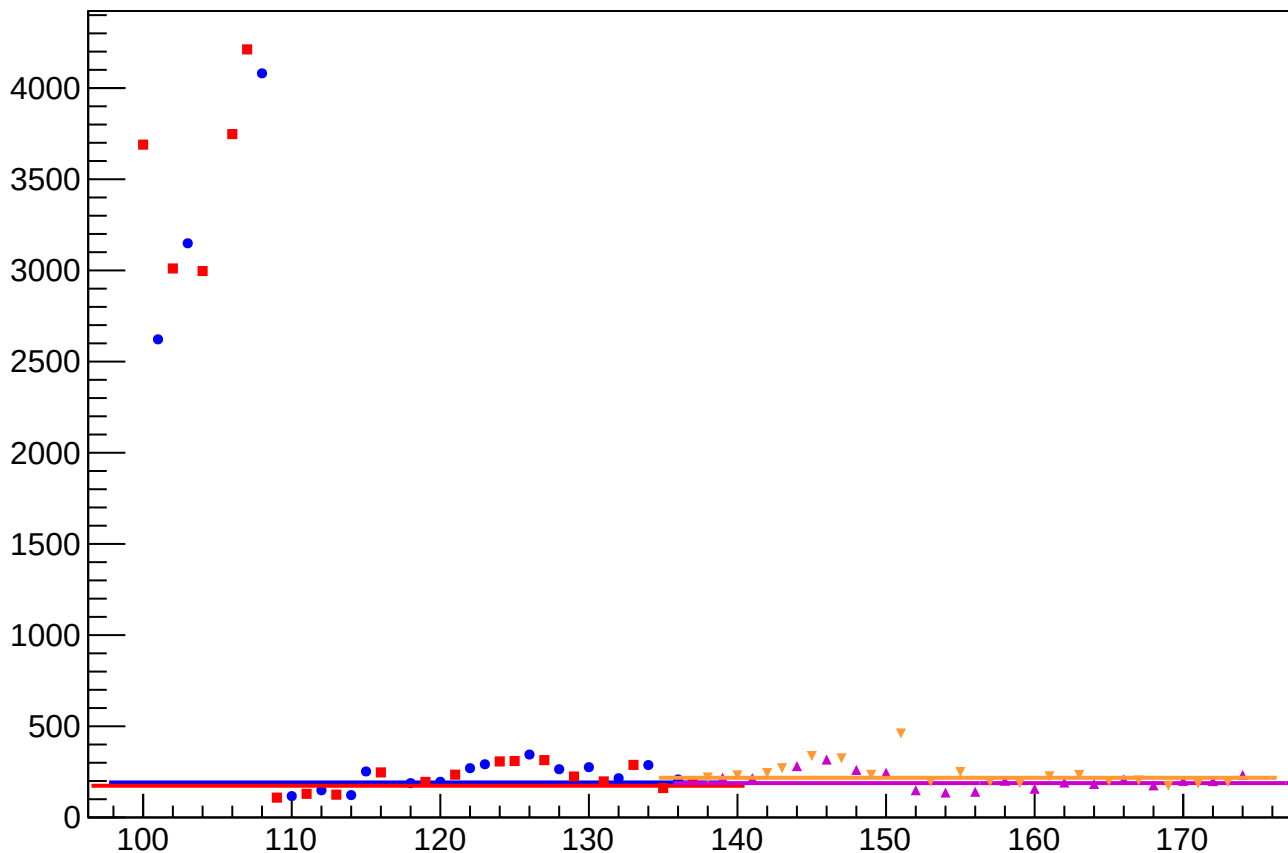
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 54.671+/-45.365 χ^2/NDF : 18.6/34

Out: -6.510+/-48.107 χ^2/NDF : 16.5/37

All: 25.874+/-33.005 χ^2/NDF : 35.9/72

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 217.516+/-0.042 χ^2/NDF : 1152496.8/18

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 188.362+/-0.037 χ^2/NDF : 1330347.0/17

Left: 201.196+/-0.028 χ^2/NDF : 2749721.4/36

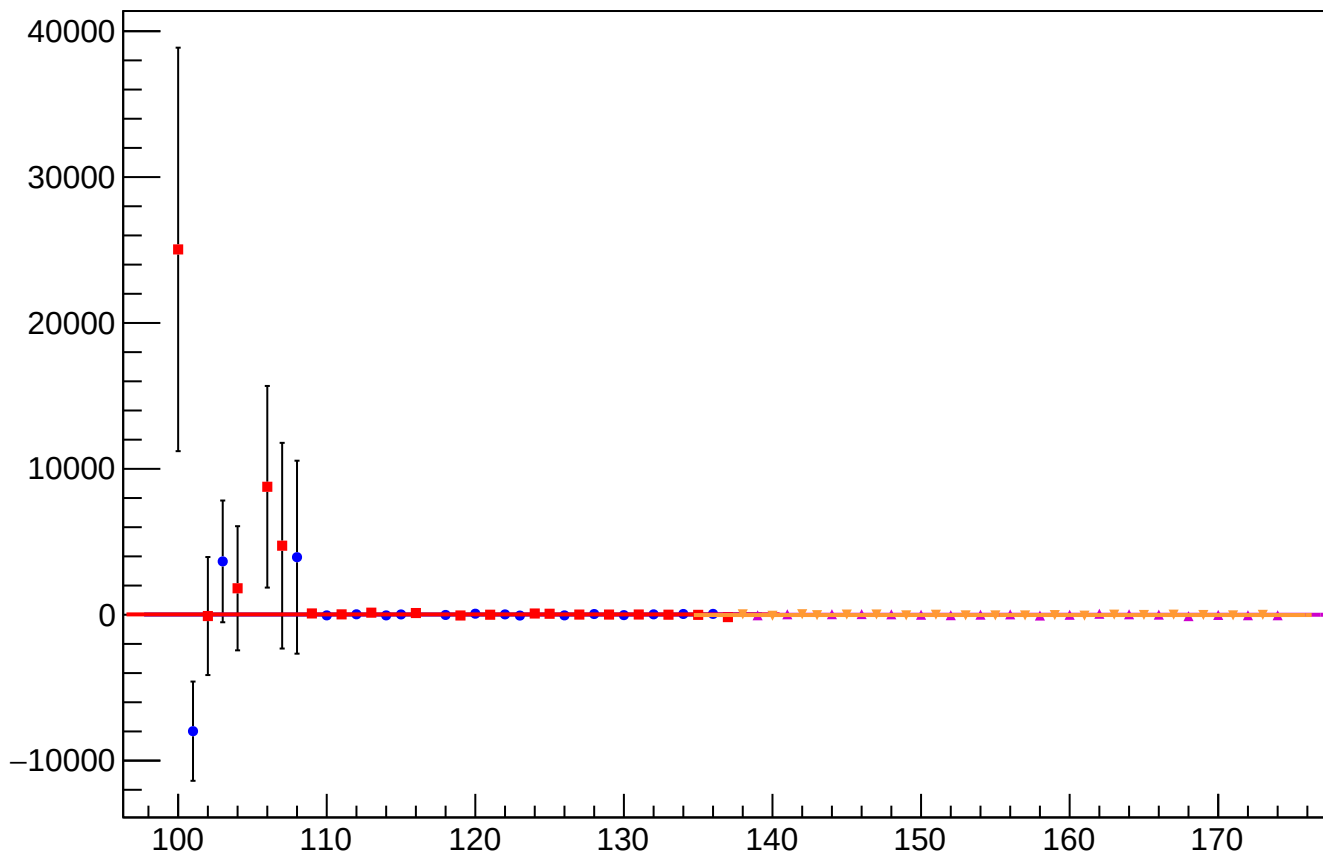
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 189.298+/-0.032 χ^2/NDF : 4905756.2/34

Out: 202.220+/-0.034 χ^2/NDF : 5737868.9/37

All: 195.380+/-0.023 χ^2/NDF : 10720000.6/72

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -21.018+/-8.351 χ^2/NDF : 12.2/18

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: -1.160+/-8.424 χ^2/NDF : 23.7/17

Left: -11.175+/-5.930 χ^2/NDF : 38.7/36

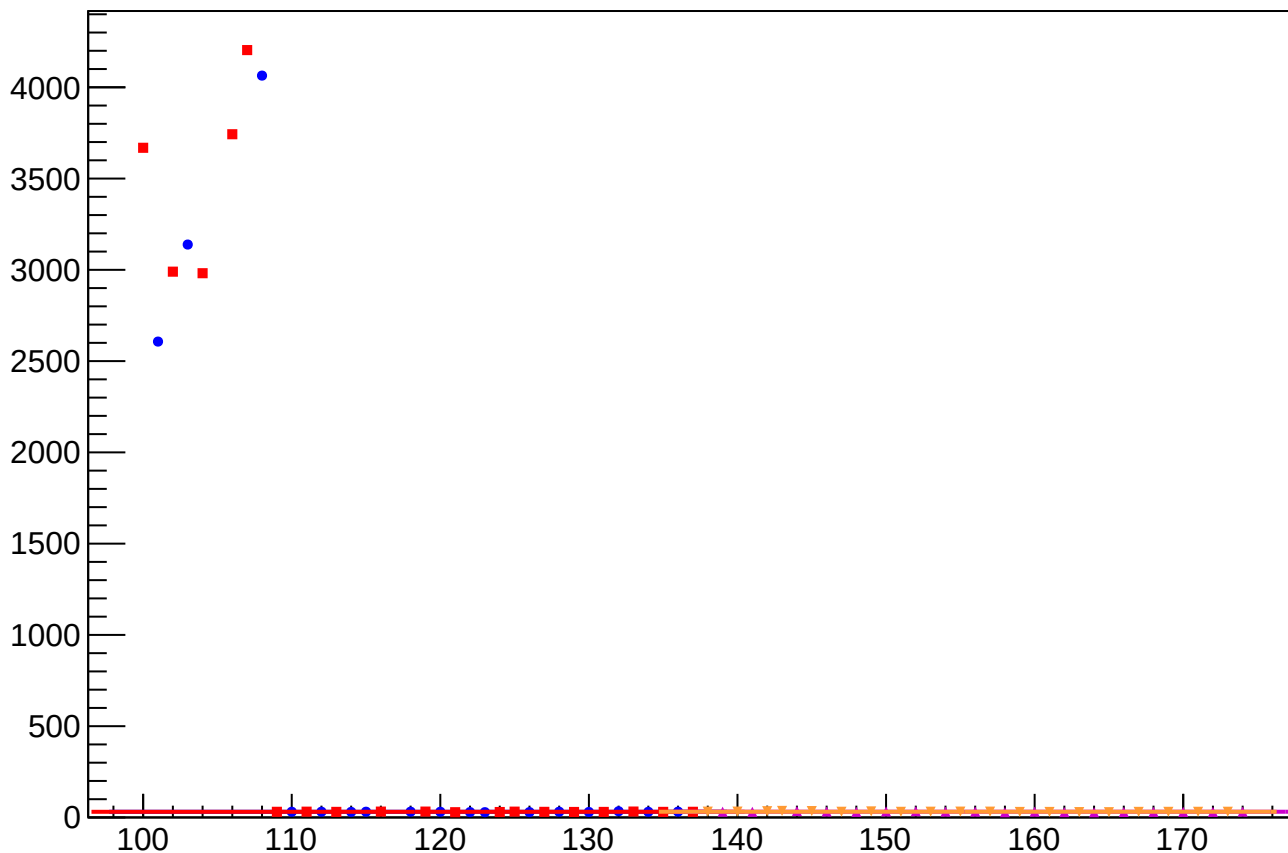
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 3.069+/-7.164 χ^2/NDF : 39.8/34

Out: -8.935+/-7.124 χ^2/NDF : 47.4/37

All: -2.967+/-5.051 χ^2/NDF : 88.6/72

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.409 $\pm$ 0.006 χ^2 /NDF: 73295.6/18

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.334 $\pm$ 0.006 χ^2 /NDF: 82233.8/17

Left: 31.372 $\pm$ 0.004 χ^2 /NDF: 155609.5/36

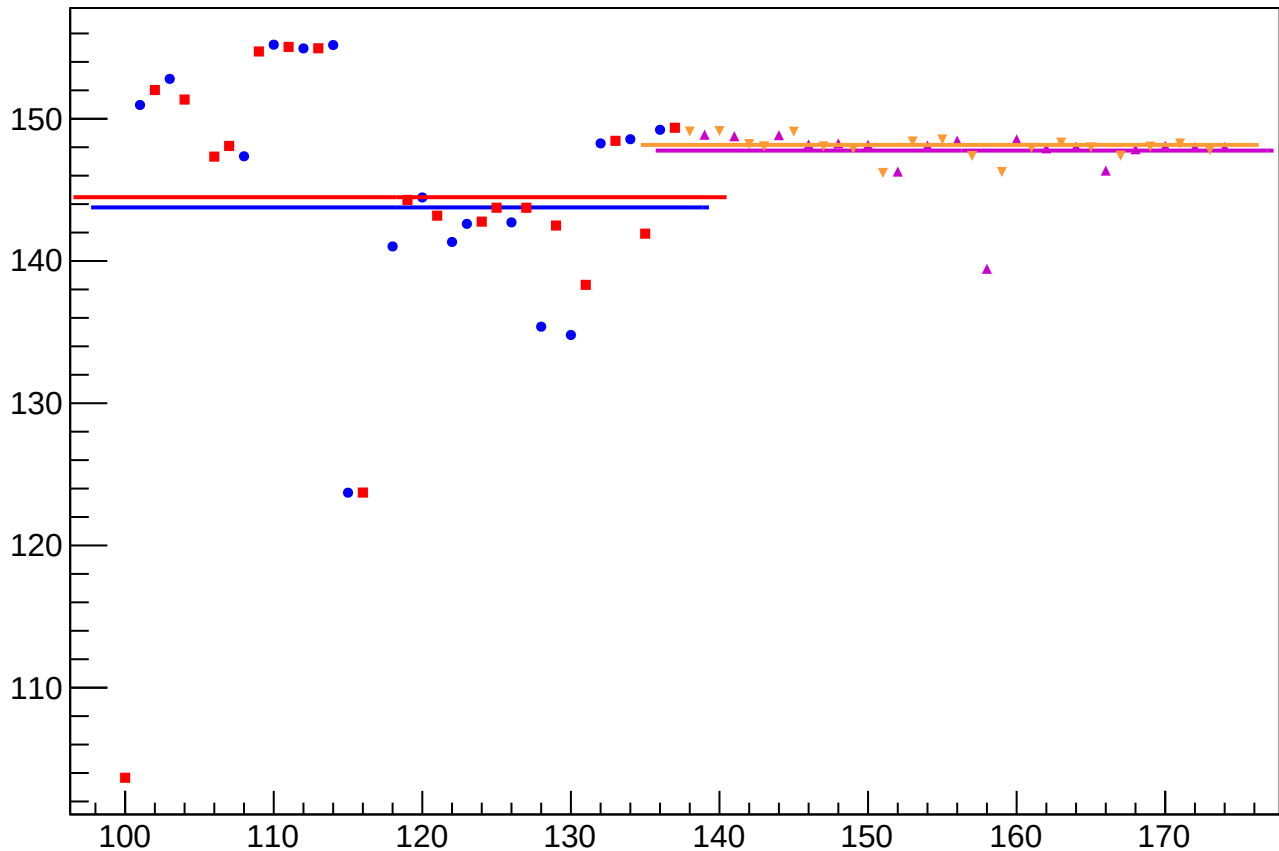
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.277 $\pm$ 0.005 χ^2 /NDF: 3096996.0/34

Out: 31.288 $\pm$ 0.005 χ^2 /NDF: 3533795.8/37

All: 31.282 $\pm$ 0.004 χ^2 /NDF: 6630794.2/72

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.163 $\pm$ 0.000 χ^2 /NDF: 52868886.7/18

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.764 $\pm$ 0.000 χ^2 /NDF: 324749789.0/17

Left: 147.969 $\pm$ 0.000 χ^2 /NDF: 383737491.7/36

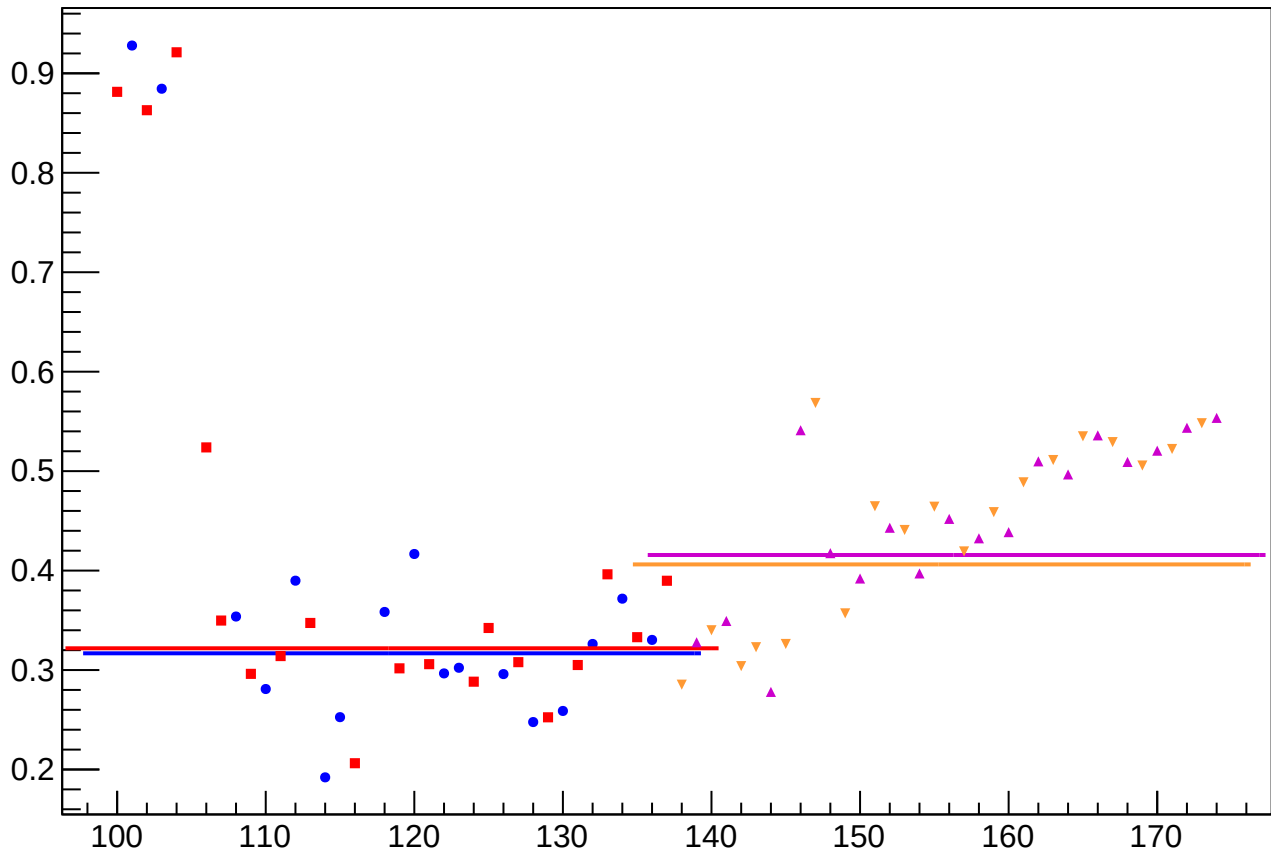
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.059 $\pm$ 0.000 χ^2 /NDF: 4366471208.3/34

Out: 146.630 $\pm$ 0.000 χ^2 /NDF: 4682669283.5/37

All: 146.350 $\pm$ 0.000 χ^2 /NDF: 9070803178.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.406 $\pm$ 0.000 χ^2 /NDF:1298780.3/18

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.416 $\pm$ 0.000 χ^2 /NDF:1098241.5/17

Left: 0.411 $\pm$ 0.000 χ^2 /NDF: 2403923.0/36

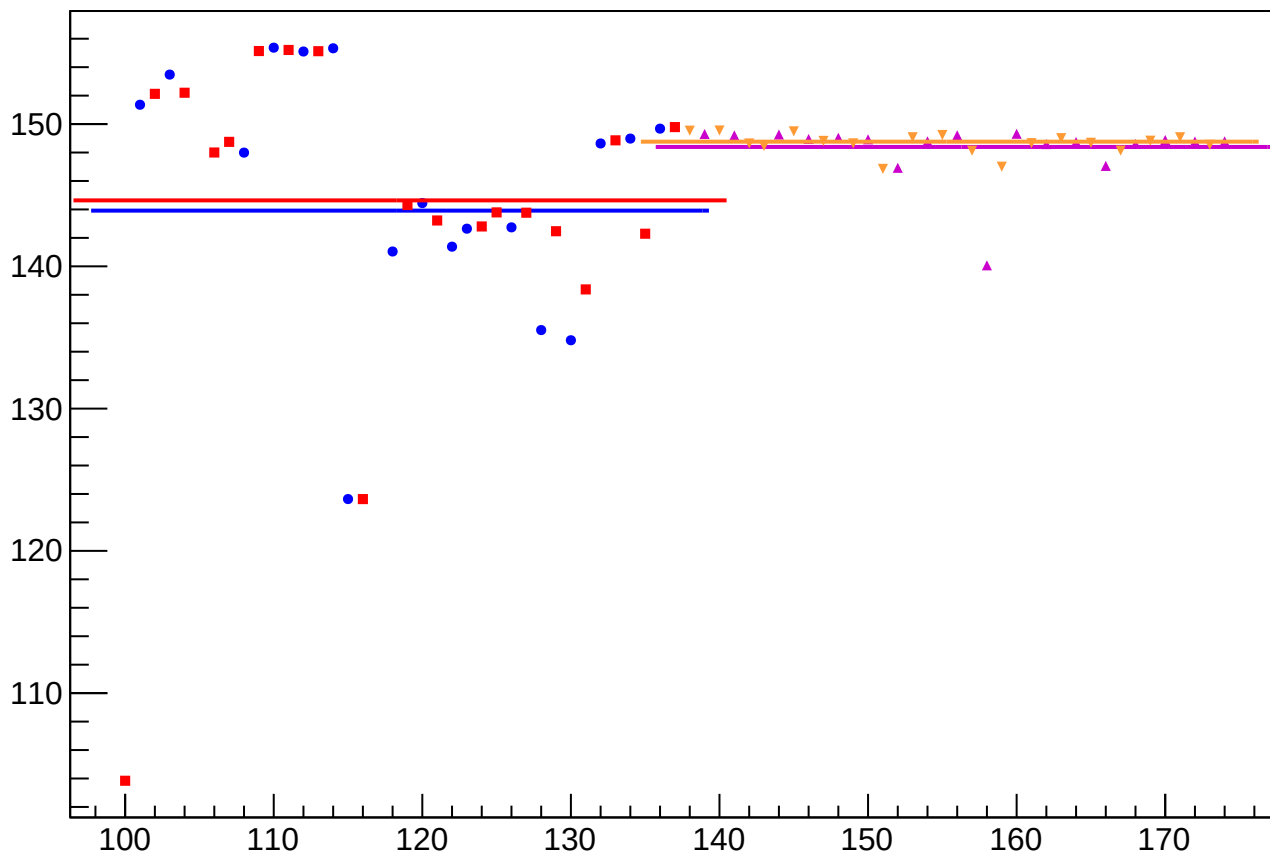
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.374 $\pm$ 0.000 χ^2 /NDF:3000682.5/34

Out: 0.371 $\pm$ 0.000 χ^2 /NDF:2985998.1/37

All: 0.372 $\pm$ 0.000 χ^2 /NDF: 5987482.3/72

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000

χ^2 /NDF: 3584662767.5/16

Left Out: 148.764 $\pm$ 0.000

χ^2 /NDF: 41345859.6/18

Right Out: 144.637 $\pm$ 0.000

χ^2 /NDF: 4210524953.9/18

Left In: 148.391 $\pm$ 0.000

χ^2 /NDF: 314714941.7/17

Left: 148.583 $\pm$ 0.000

χ^2 /NDF: 361280982.5/36

Right: 144.280 $\pm$ 0.000

χ^2 /NDF: 7809567994.8/35

In: 146.472 $\pm$ 0.000

χ^2 /NDF: 4528592326.0/34

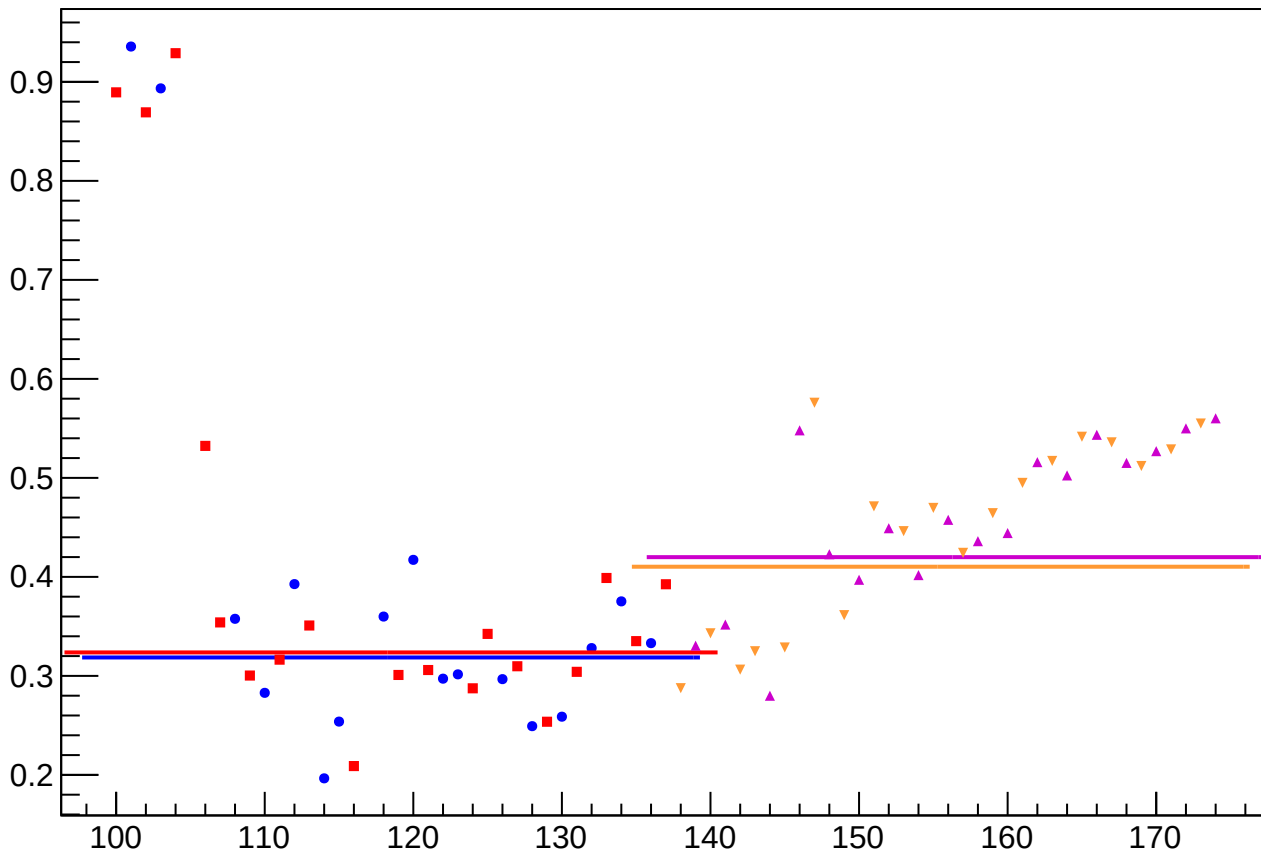
Out: 147.034 $\pm$ 0.000

χ^2 /NDF: 4805278682.3/37

All: 146.759 $\pm$ 0.000

χ^2 /NDF: 9354575981.4

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.410+/-0.000 χ^2/NDF :1322058.0/18

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.420+/-0.000 χ^2/NDF :1118412.0/17

Left: 0.415+/-0.000 χ^2/NDF : 2447513.0/36

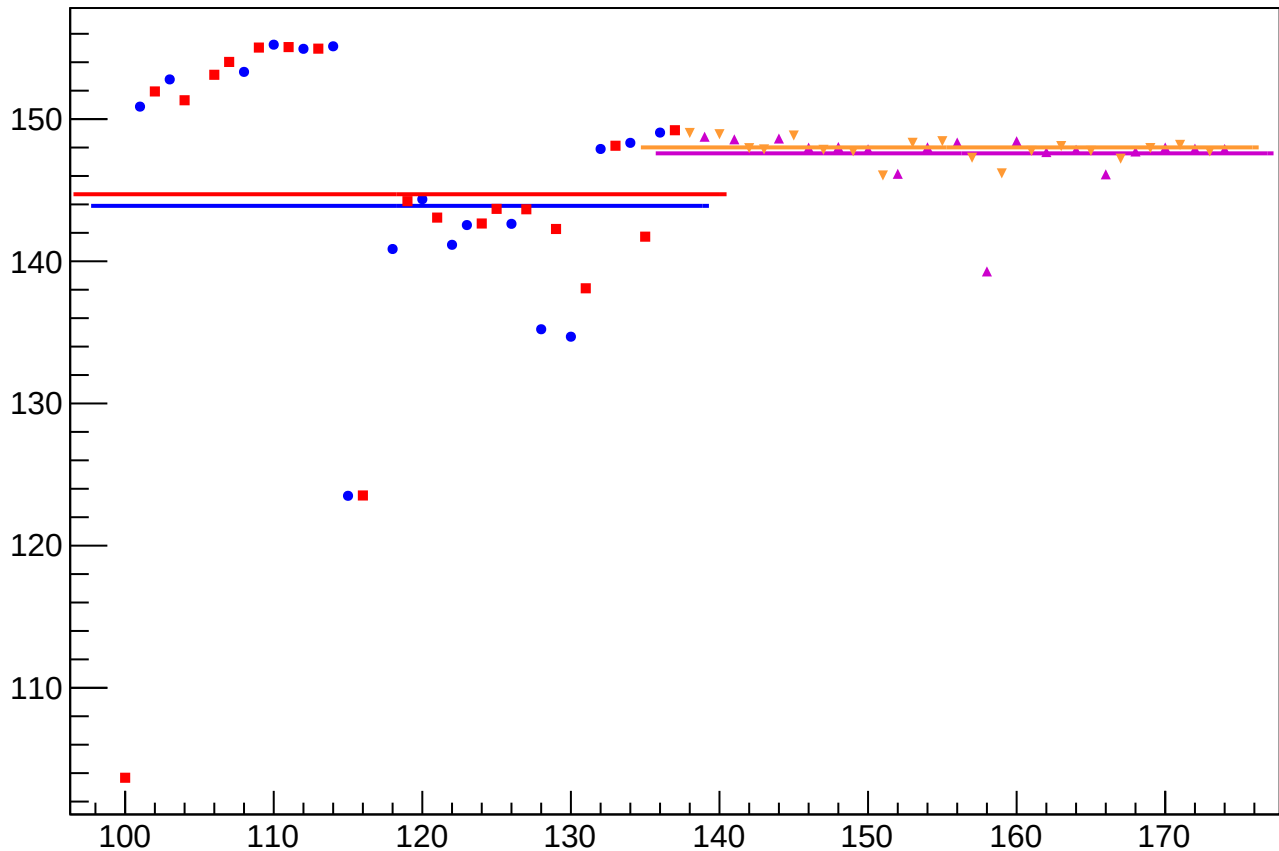
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.376+/-0.000 χ^2/NDF :3044529.5/34

Out: 0.374+/-0.000 χ^2/NDF :3029903.1/37

All: 0.375+/-0.000 χ^2/NDF : 6075230.2/72

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.010 $\pm$ 0.000 χ^2 /NDF: 51220438.6/18

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.591 $\pm$ 0.000 χ^2 /NDF: 324034396.9/17

Left: 147.806 $\pm$ 0.000 χ^2 /NDF: 381962287.2/36

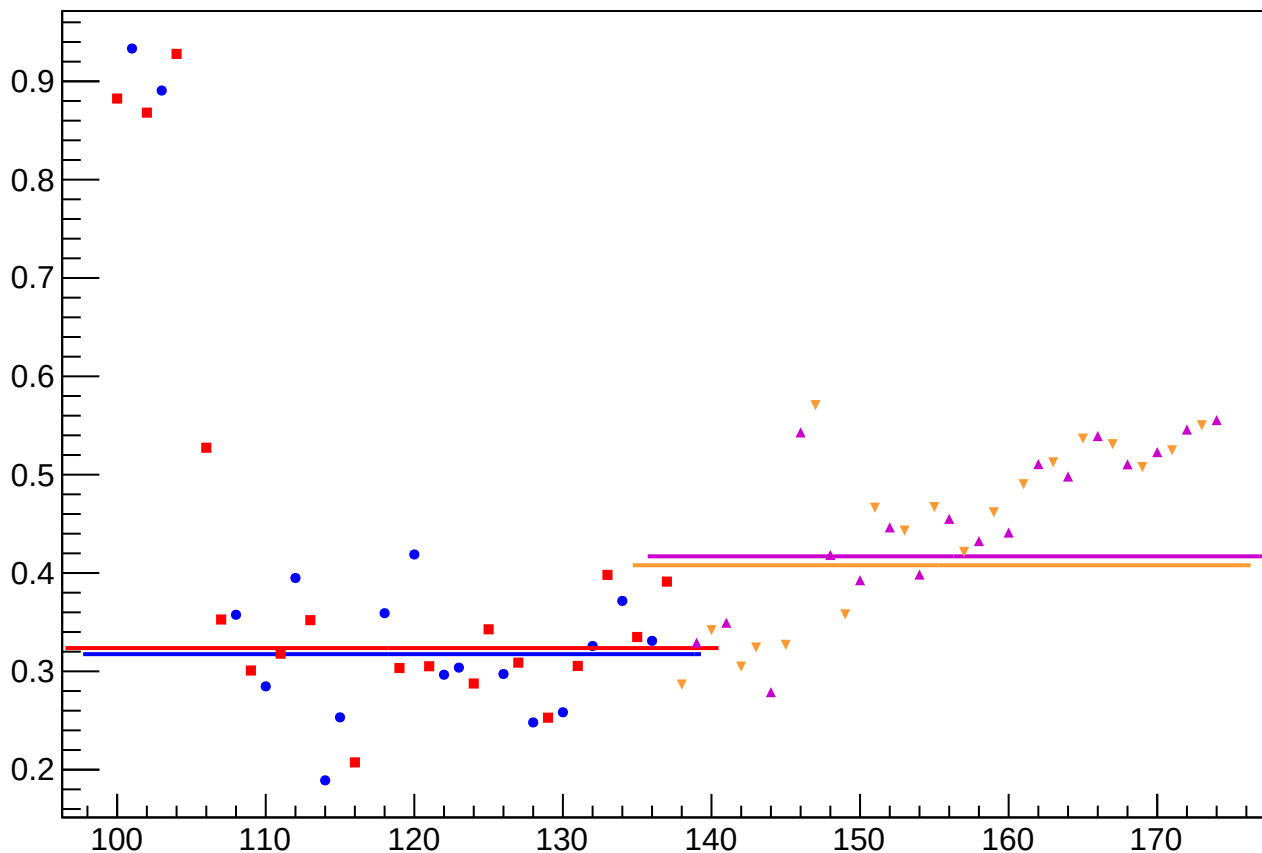
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 146.016 $\pm$ 0.000 χ^2 /NDF: 4506419479.7/34

Out: 146.639 $\pm$ 0.000 χ^2 /NDF: 4880443907.1/37

All: 146.333 $\pm$ 0.000 χ^2 /NDF: 9412512312.1

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.408 $\pm$ 0.000 χ^2 /NDF:1299894.2/18

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.417 $\pm$ 0.000 χ^2 /NDF:1104209.0/17

Left: 0.412 $\pm$ 0.000 χ^2 /NDF: 2410406.0/36

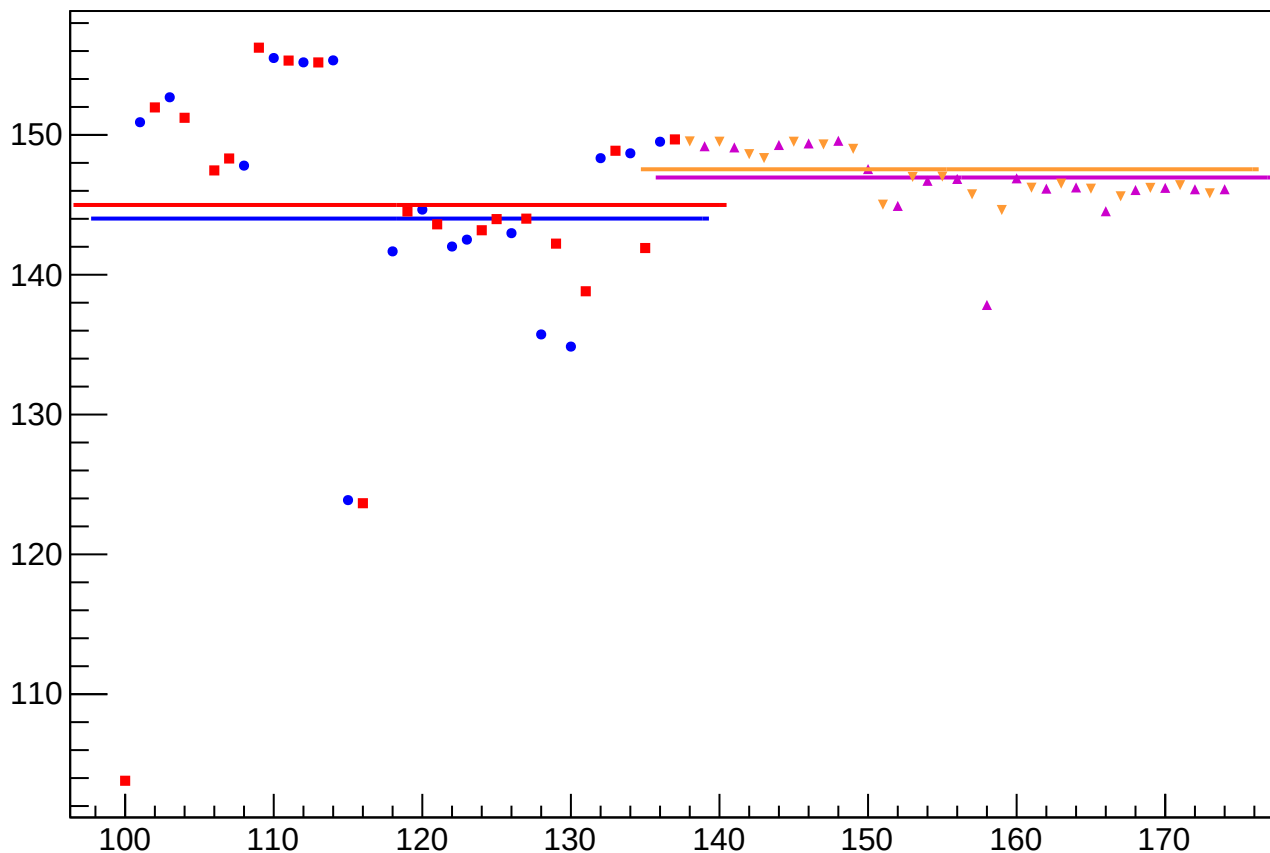
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.375 $\pm$ 0.000 χ^2 /NDF:3025145.6/34

Out: 0.373 $\pm$ 0.000 χ^2 /NDF:2985041.6/37

All: 0.374 $\pm$ 0.000 χ^2 /NDF: 6010563.7/72

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.543 $\pm$ 0.000 χ^2 /NDF: 207478637.9/18

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 146.955 $\pm$ 0.000 χ^2 /NDF: 506289020.8/17

Left: 147.257 $\pm$ 0.000 χ^2 /NDF: 726147392.2/36

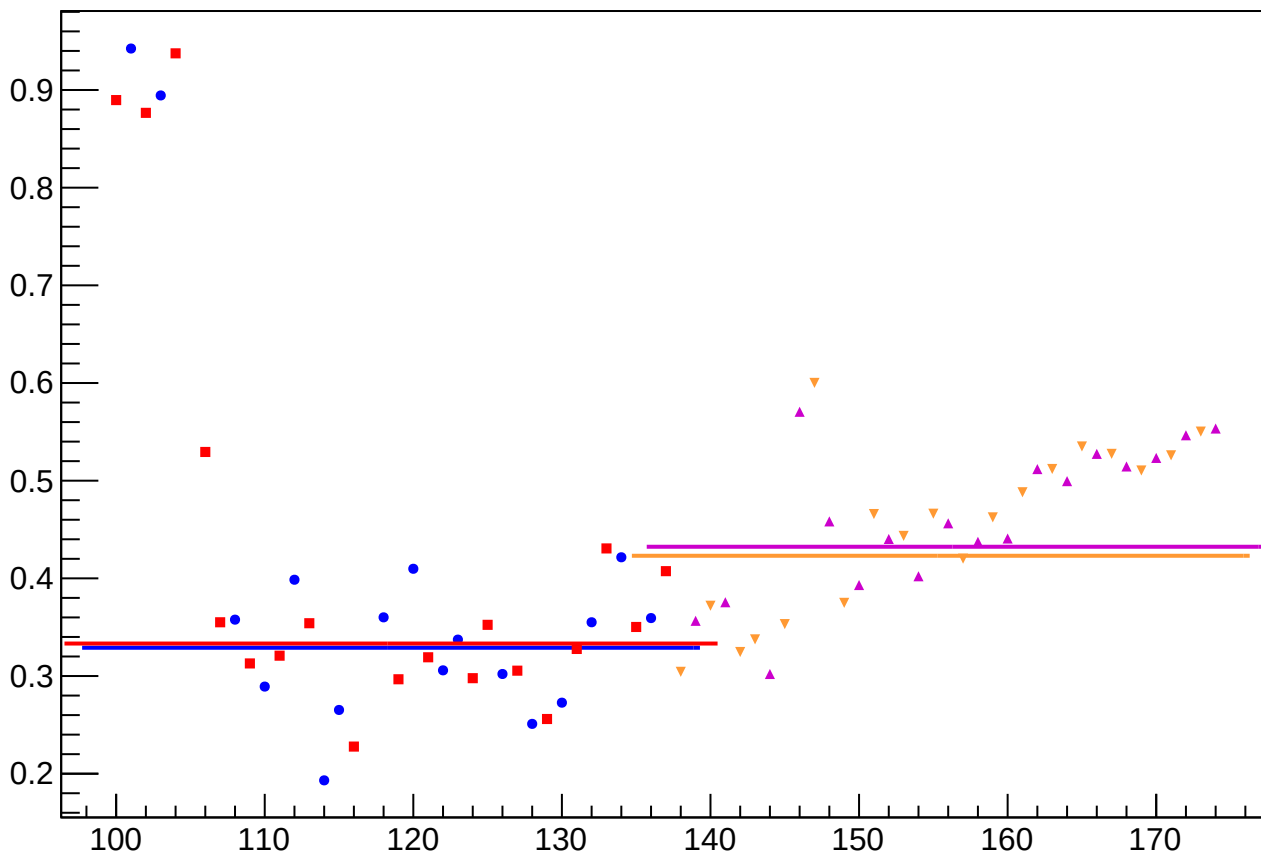
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.709 $\pm$ 0.000 χ^2 /NDF: 4000106240.2/34

Out: 146.477 $\pm$ 0.000 χ^2 /NDF: 4261016880.2/37

All: 146.101 $\pm$ 0.000 χ^2 /NDF: 8297556400.9

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.423+/-0.000 χ^2/NDF : 1013422.1/18

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.432+/-0.000 χ^2/NDF : 840042.9/17

Left: 0.428+/-0.000 χ^2/NDF : 1859562.0/36

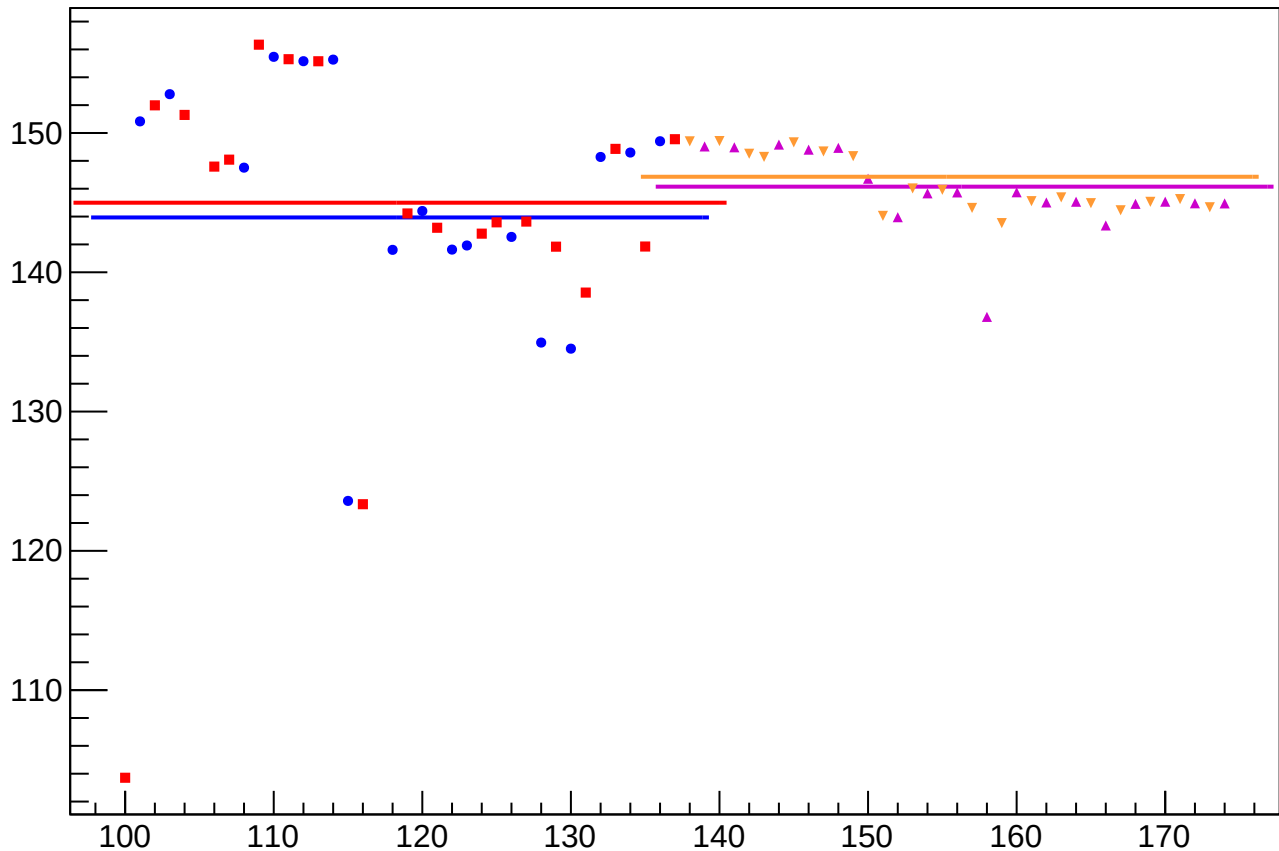
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.389+/-0.000 χ^2/NDF : 2748863.0/34

Out: 0.386+/-0.000 χ^2/NDF : 2691747.3/37

All: 0.387+/-0.000 χ^2/NDF : 5441653.2/72

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.858 ± 0.000 $\chi^2/\text{NDF}: 322607874.4/18$

Right Out: 144.995 ± 0.000 $\chi^2/\text{NDF}: 3934069043.2/18$

Left In: 146.147 ± 0.000 $\chi^2/\text{NDF}: 629096459.5/17$

Left: 146.512 ± 0.000 $\chi^2/\text{NDF}: 969764650.4/36$

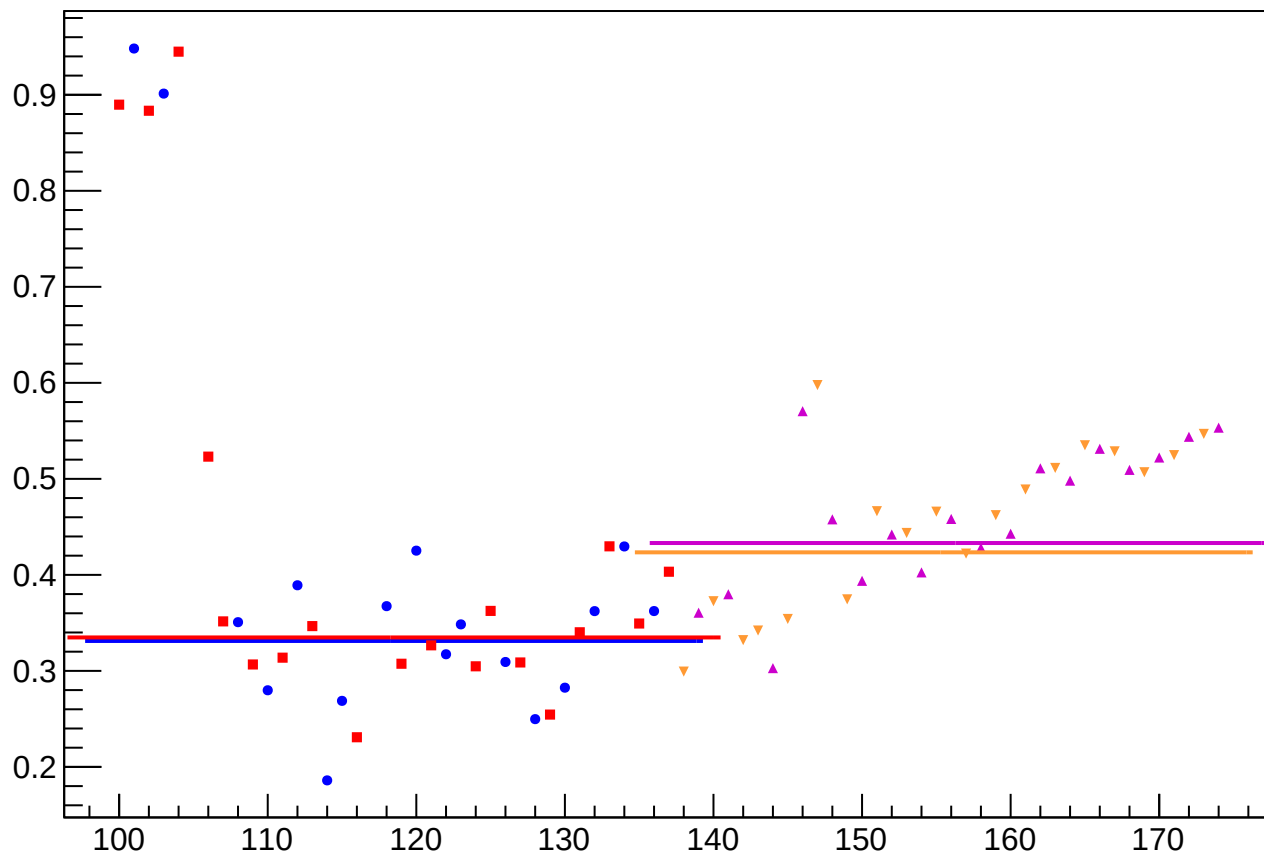
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.217 ± 0.000 $\chi^2/\text{NDF}: 4151155420.1/34$

Out: 146.084 ± 0.000 $\chi^2/\text{NDF}: 4362508267.8/37$

All: 145.660 ± 0.000 $\chi^2/\text{NDF}: 8559814545.2$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.423+/-0.000 χ^2/NDF : 1002657.1/18

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.433+/-0.000 χ^2/NDF : 811700.2/17

Left: 0.428+/-0.000 χ^2/NDF : 1821083.8/36

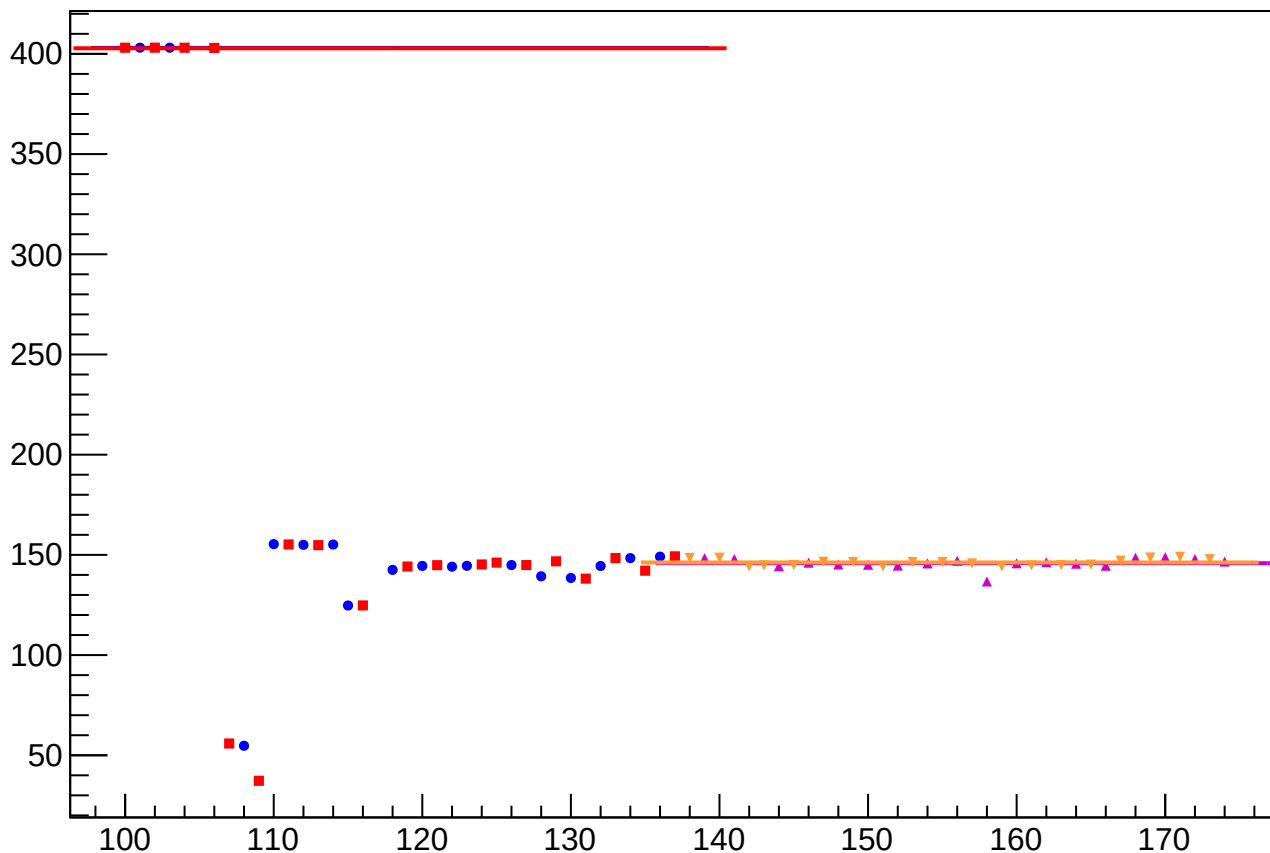
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.390+/-0.000 χ^2/NDF : 2716013.6/34

Out: 0.387+/-0.000 χ^2/NDF : 2653669.3/37

All: 0.388+/-0.000 χ^2/NDF : 5371274.0/72

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957 +/- 0.000

χ^2/NDF : 1096710296821.6/16

Left: 146.035 +/- 0.000

χ^2/NDF : 244253450.4/36

Left Out: 146.230 +/- 0.000

χ^2/NDF : 72721224.1/18

Right: 402.873 +/- 0.000

χ^2/NDF : 4201017642924.7/36

Right Out: 402.799 +/- 0.000

χ^2/NDF : 3103890772575.4/18

In: 402.731 +/- 0.000

χ^2/NDF : 2908982349268.2/36

Out: 402.600 +/- 0.000

χ^2/NDF : 4896496504861.0/36

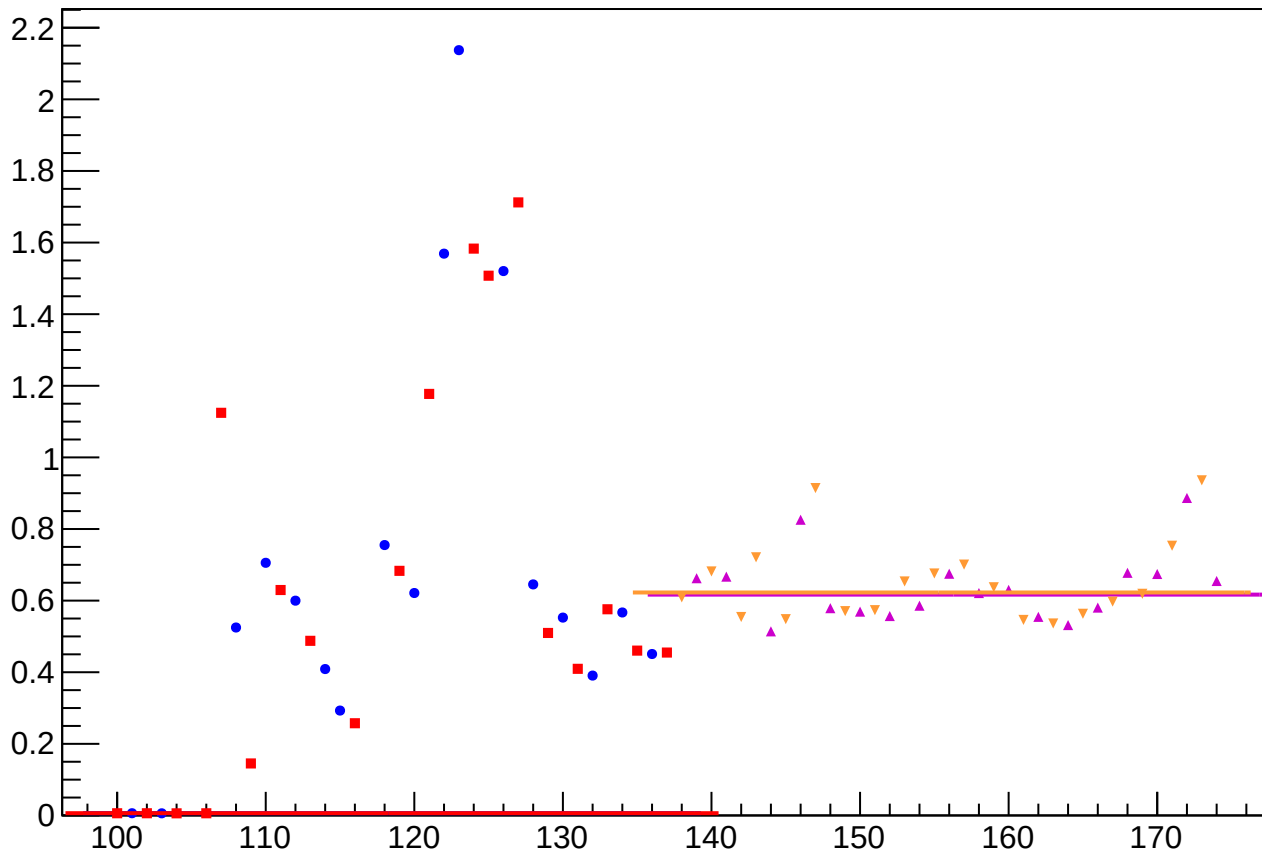
Left In: 145.842 +/- 0.000

χ^2/NDF : 169470525.9/17

All: 402.662 +/- 0.000

χ^2/NDF : 780576112733.0/36

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9161050.1/16

Left Out: 0.623 $\pm$ 0.000 χ^2 /NDF:459968.1/18

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 9212402.0/18

Left In: 0.617 $\pm$ 0.000 χ^2 /NDF:345802.4/17

Left: 0.620 $\pm$ 0.000 χ^2 /NDF: 806750.7/36

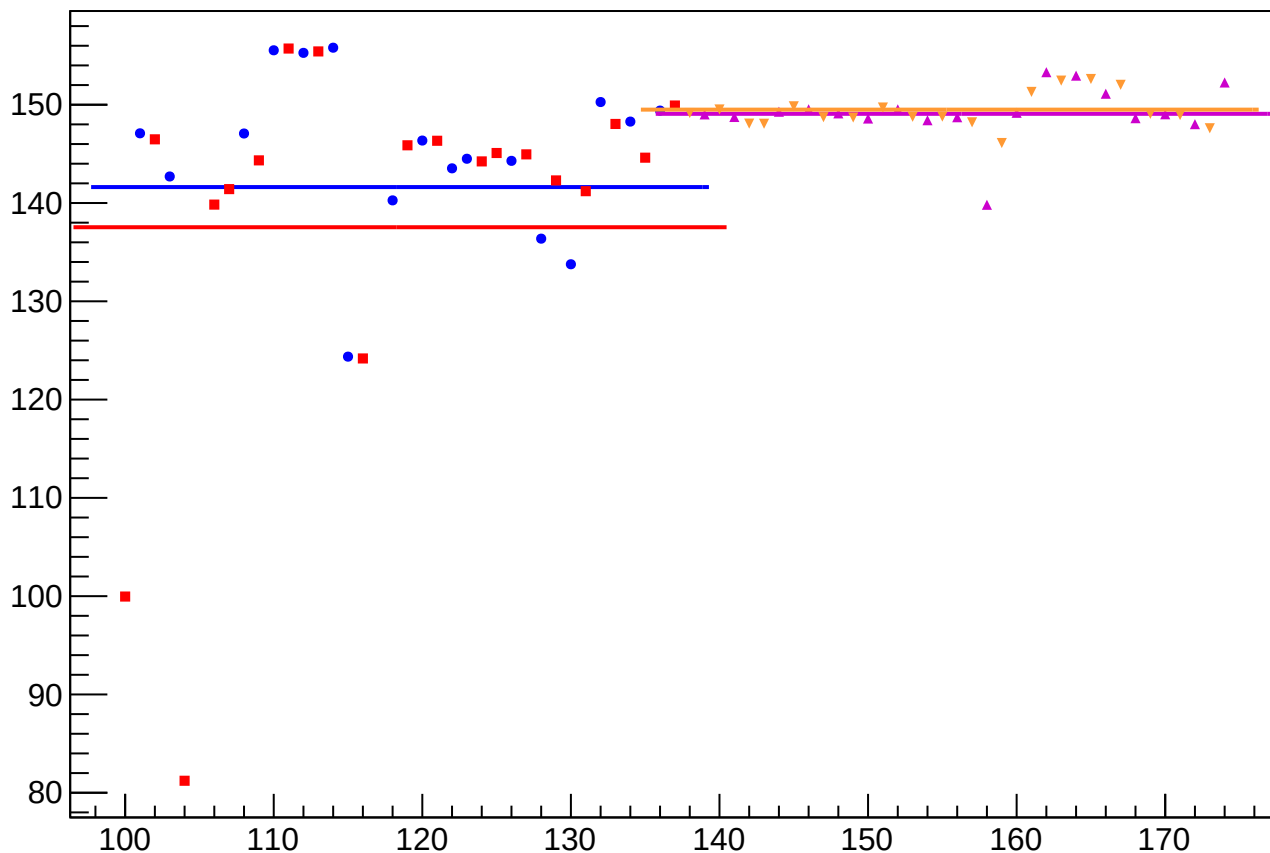
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18373456.3/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:29933882.4/34

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:30365846.7/37

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 60299902.8/72

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622+/-0.000

χ^2/NDF : 982037737.7/16

Left Out: 149.501+/-0.000

χ^2/NDF : 122424028.2/18

Right Out: 137.536+/-0.000

χ^2/NDF : 1315768553.6/18

Left In: 149.075+/-0.000

χ^2/NDF : 384728032.5/17

Left: 149.291+/-0.000

χ^2/NDF : 510768536.0/36

Right: 139.530+/-0.000

χ^2/NDF : 2384319562.8/35

In: 147.548+/-0.000

χ^2/NDF : 1813685641.2/34

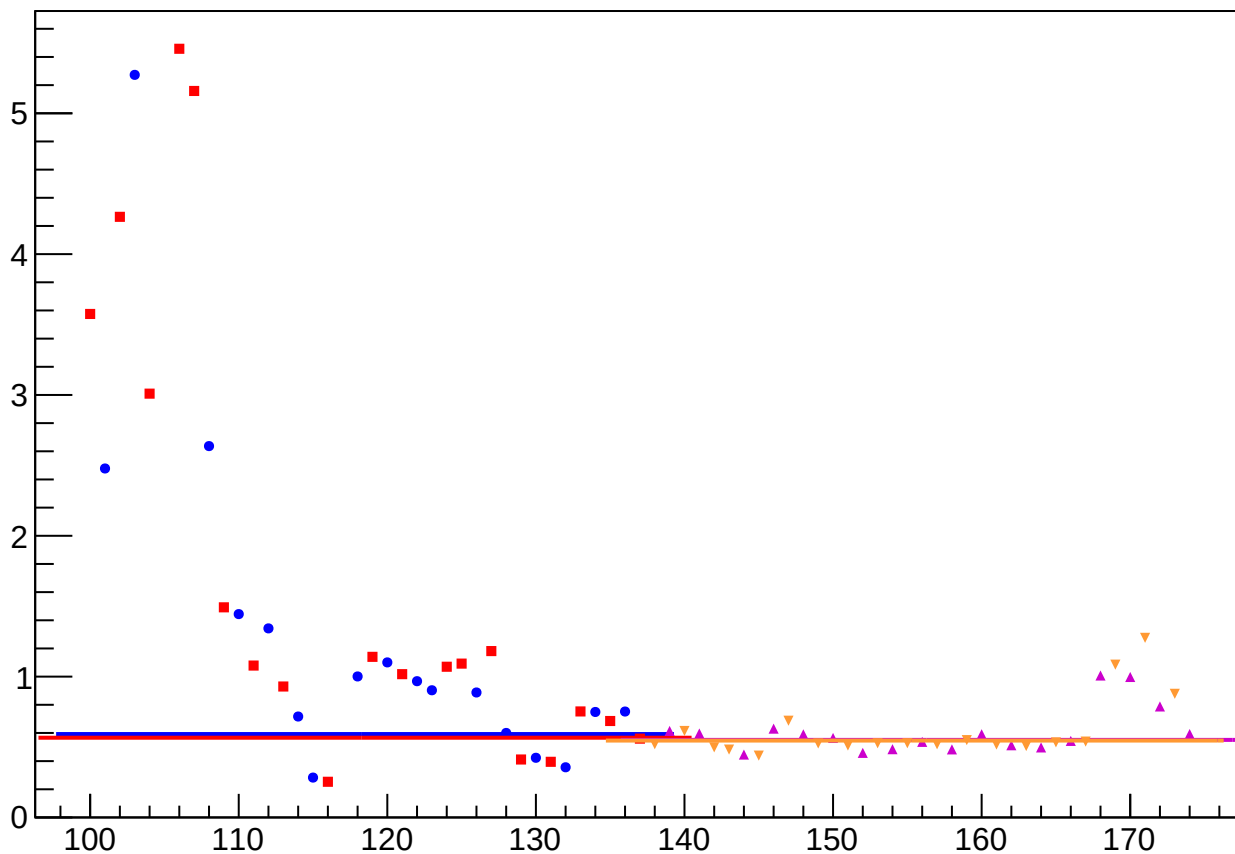
Out: 147.006+/-0.000

χ^2/NDF : 2641511003.1/37

All: 147.273+/-0.000

χ^2/NDF : 4462570593.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.546 $\pm$ 0.000 χ^2/NDF : 1218232.6/18

Right Out: 0.566 $\pm$ 0.000 χ^2/NDF : 4682140.9/18

Left In: 0.551 $\pm$ 0.000 χ^2/NDF : 961317.3/17

Left: 0.548 $\pm$ 0.000 χ^2/NDF : 2180462.9/36

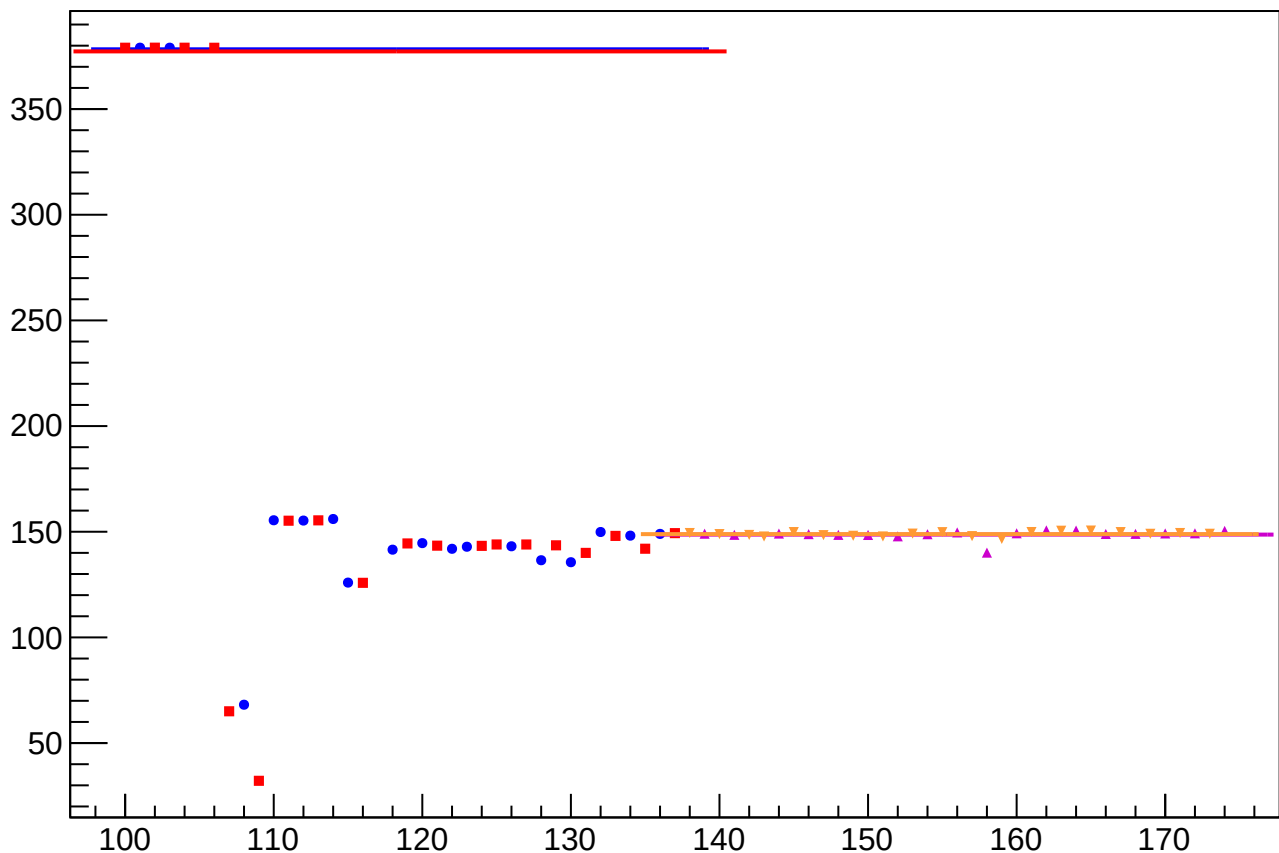
Right: 0.579 $\pm$ 0.000 χ^2/NDF : 8210771.7/35

In: 0.559 $\pm$ 0.000 χ^2/NDF : 4510600.7/34

Out: 0.550 $\pm$ 0.000 χ^2/NDF : 5907229.5/37

All: 0.555 $\pm$ 0.000 χ^2/NDF : 10421963.7/72

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000

χ^2/NDF : 2512261599188.1/16

Left: 148.762+/-0.000

χ^2/NDF : 304195770.4/36

Right: 377.753+/-0.000

χ^2/NDF : 10798714881373.0

Left Out: 148.868+/-0.000

χ^2/NDF : 60679113.6/18

In: 377.269+/-0.000

χ^2/NDF : 5608889962966.9/36

Right Out: 377.289+/-0.000

χ^2/NDF : 8279468194444.1/18

Out: 376.338+/-0.000

χ^2/NDF : 11576594970782.6

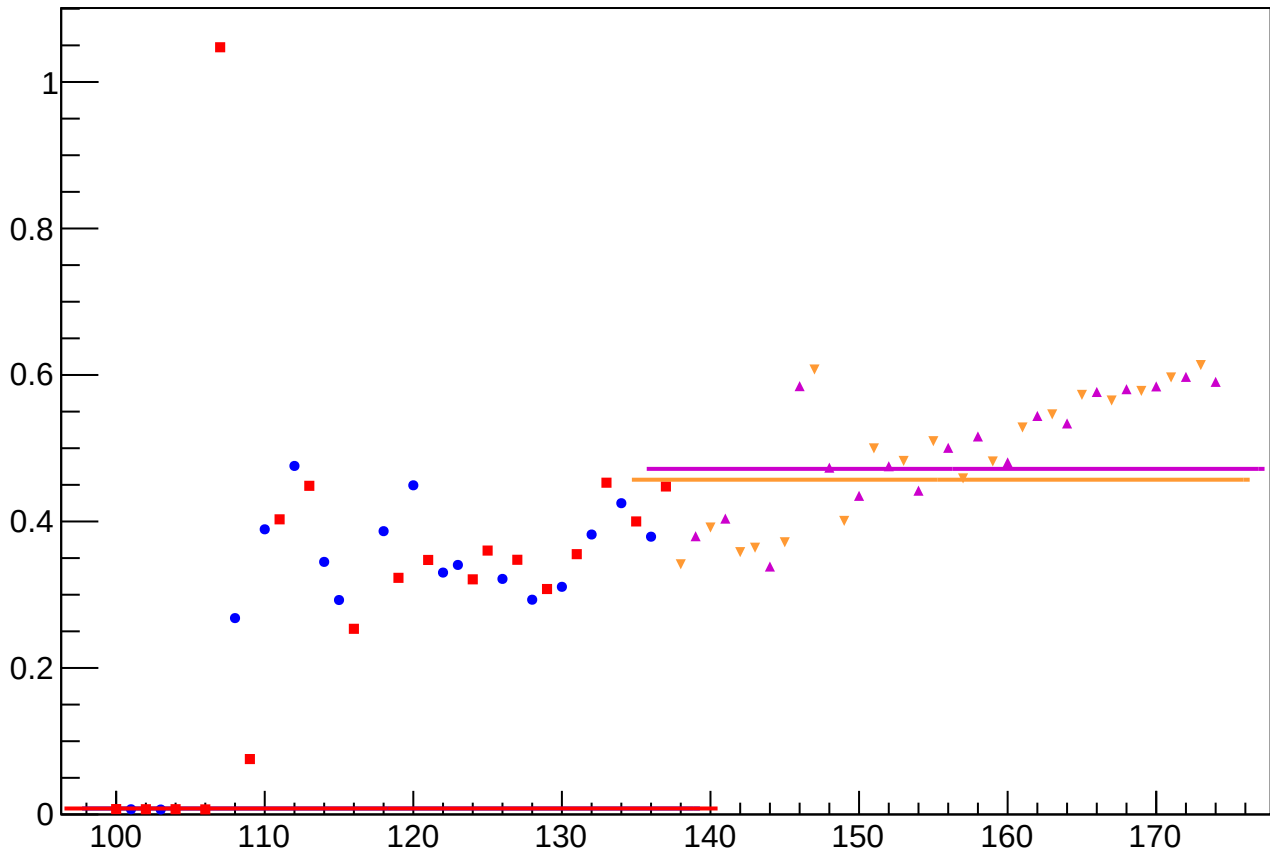
Left In: 148.647+/-0.000

χ^2/NDF : 242021826.9/17

All: 376.773+/-0.000

χ^2/NDF : 171916522102.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.457 $\pm$ 0.000 χ^2 /NDF:1007171.3/18

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.472 $\pm$ 0.000 χ^2 /NDF:792470.8/17

Left: 0.464 $\pm$ 0.000 χ^2 /NDF: 1813002.0/36

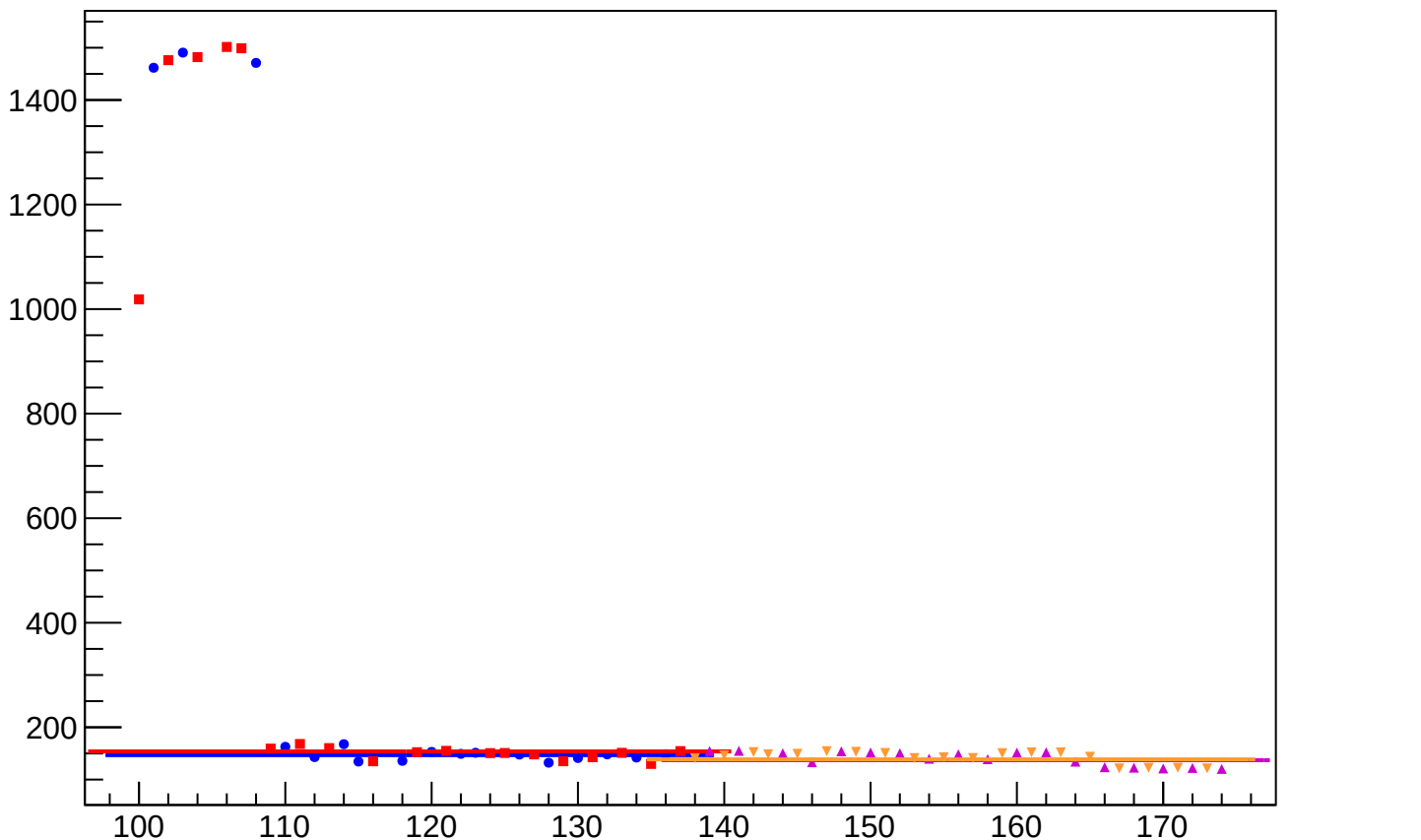
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:35927660.9/34

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:36007685.6/37

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 71935696.8/72

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000

χ^2/NDF : 24350870553.3/16

Left: 137.823+/-0.000 χ^2/NDF : 6025676320.5/36

Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

Left Out: 138.647+/-0.000

χ^2/NDF : 2834656188.9/18

In: 139.294+/-0.000 χ^2/NDF : 27905267156.2/34

Right Out: 153.887+/-0.000

χ^2/NDF : 33738118250.9/18

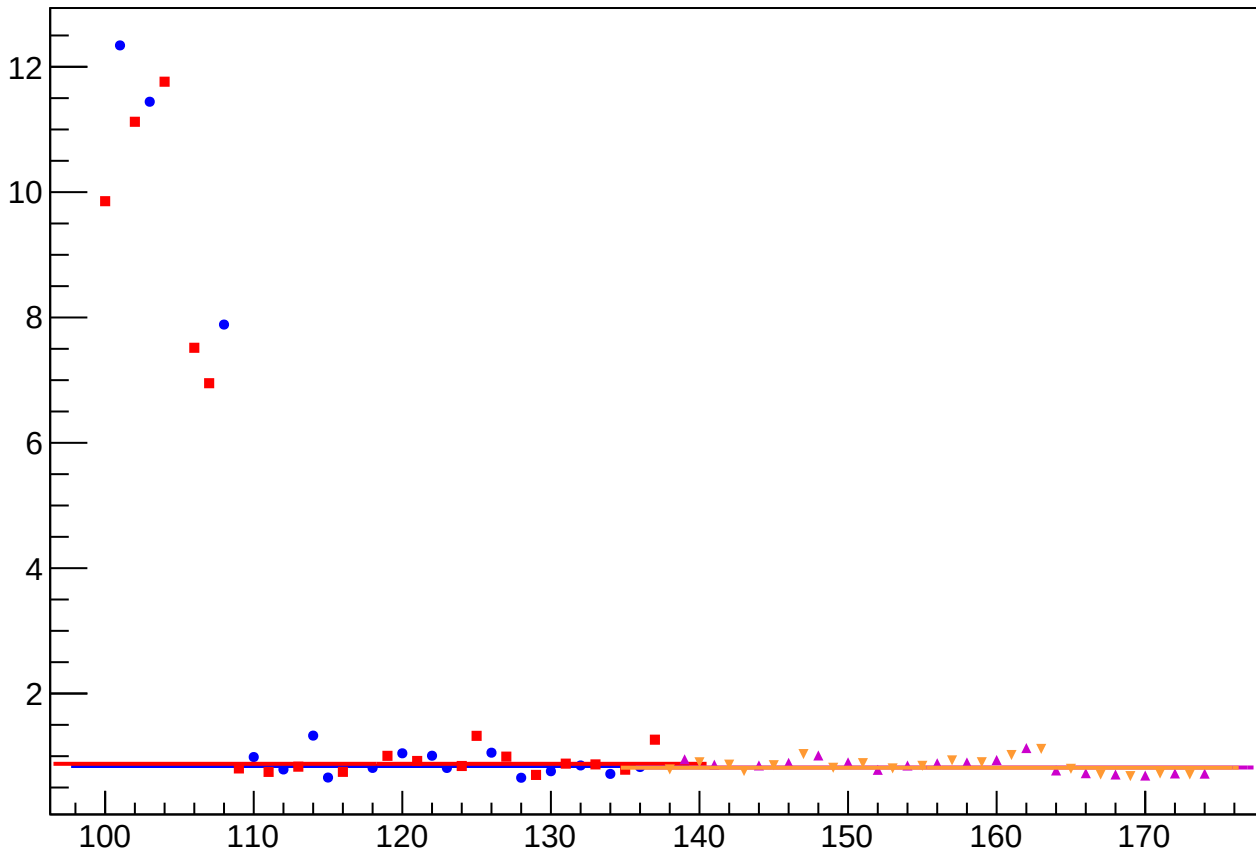
Out: 142.192+/-0.000 χ^2/NDF : 37515837908.4/37

Left In: 136.991+/-0.000

χ^2/NDF : 3167214966.3/17

All: 140.746+/-0.000 χ^2/NDF : 65516446083.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.816+/-0.000 χ^2/NDF : 421441.7/18

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.820+/-0.000 χ^2/NDF : 402566.7/17

Left: 0.818+/-0.000 χ^2/NDF : 824179.0/36

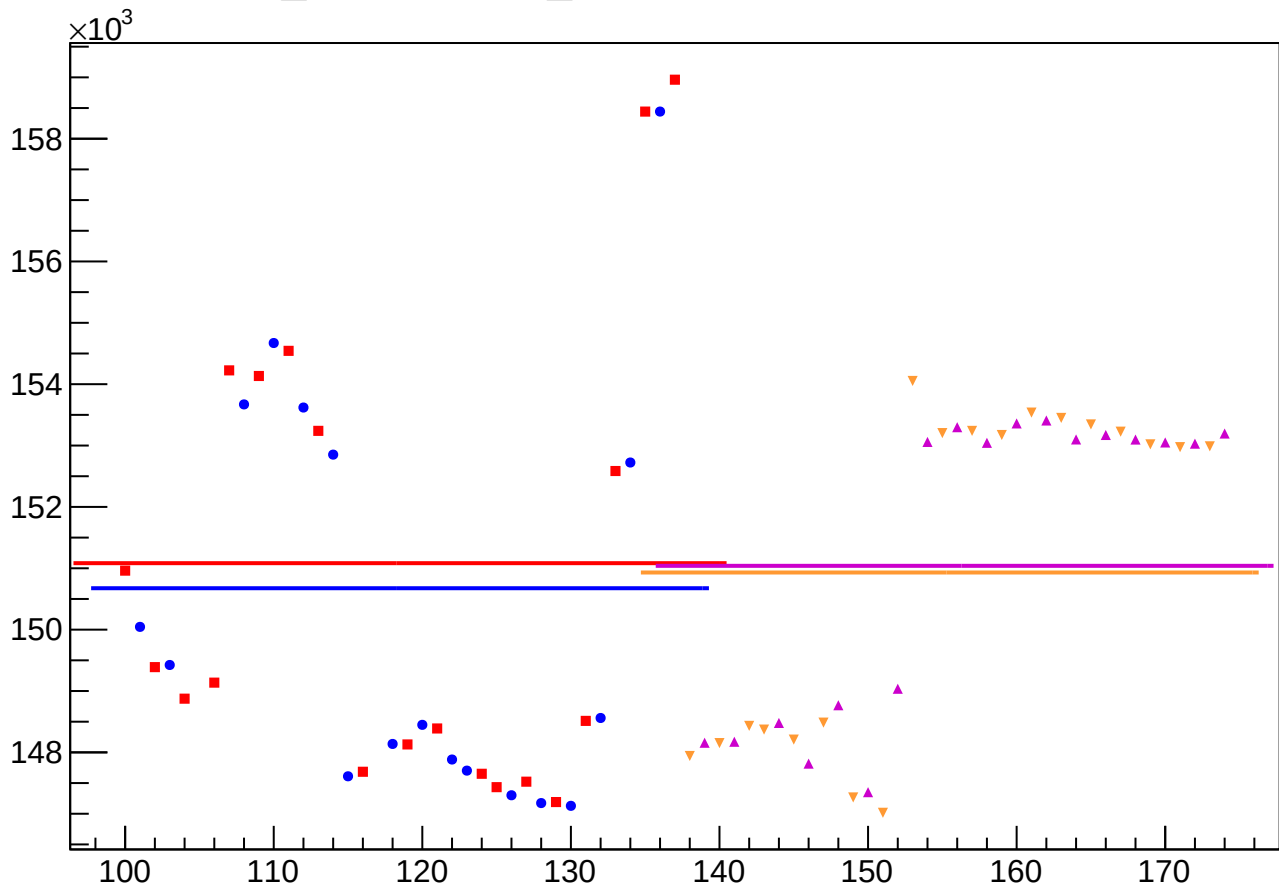
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.825+/-0.000 χ^2/NDF : 3077778.9/34

Out: 0.831+/-0.000 χ^2/NDF : 3265061.9/37

All: 0.828+/-0.000 χ^2/NDF : 6343544.7/72

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2 /NDF: 3309974859.4/16

Left: 150983.722 $\pm$ 0.038

χ^2 /NDF: 4679884760.0/3

Right: 150890.022 $\pm$ 0.043

χ^2 /NDF: 6632946370.1/16

Left Out: 150931.293 $\pm$ 0.052

χ^2 /NDF: 2667183847.2/18

In: 150884.333 $\pm$ 0.041

χ^2 /NDF: 5339871804.5/34

Right Out: 151083.268 $\pm$ 0.060

χ^2 /NDF: 3300830370.5/18

Out: 150997.429 $\pm$ 0.039

χ^2 /NDF: 5971675457.3/3

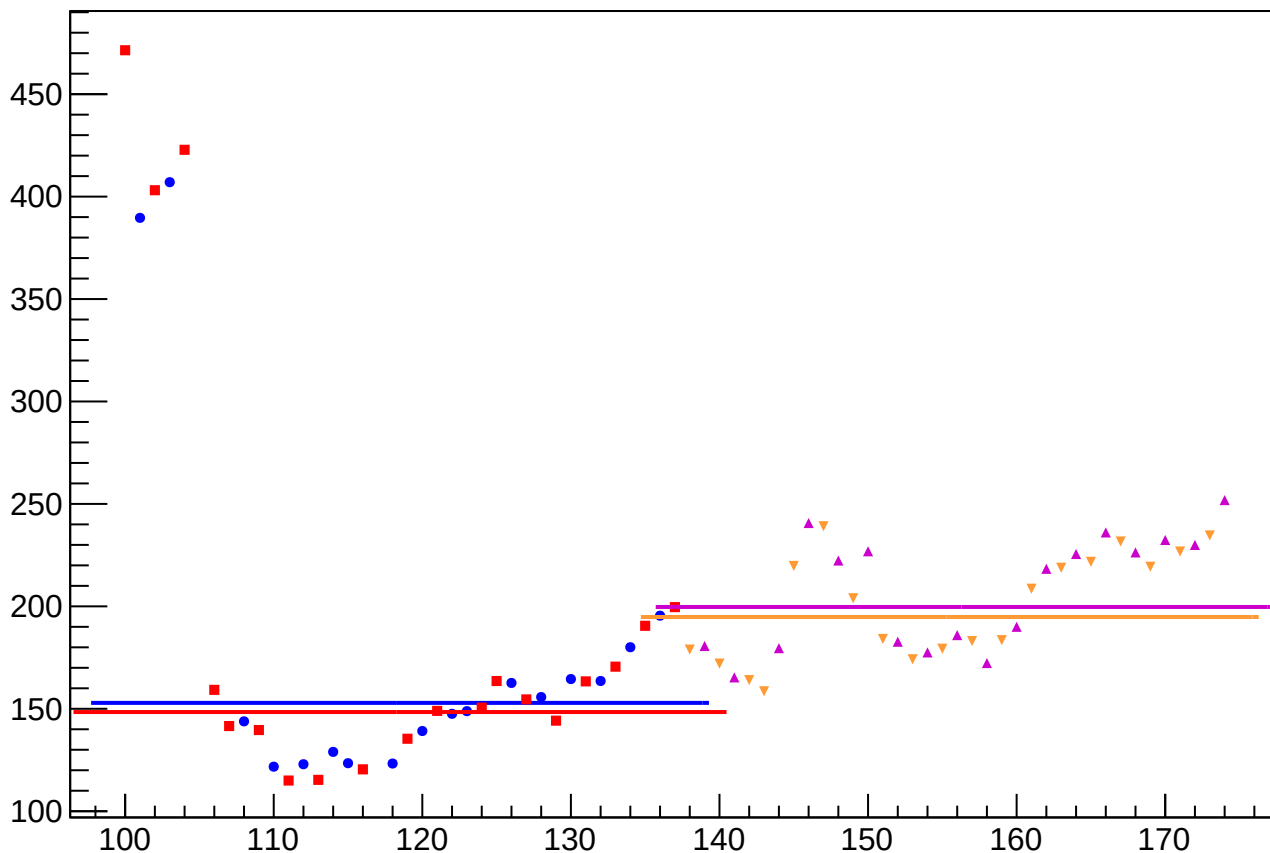
Left In: 151040.042 $\pm$ 0.054

χ^2 /NDF: 2010624045.6/17

All: 150943.331 $\pm$ 0.028

χ^2 /NDF: 113154930

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2/NDF : 1154088.7/16

Left Out: 194.805 $\pm$ 0.037 χ^2/NDF : 439262.9/18

Right Out: 148.418 $\pm$ 0.042 χ^2/NDF : 1191577.6/18

Left In: 199.698 $\pm$ 0.038 χ^2/NDF : 483038.6/17

Left: 197.164 $\pm$ 0.027 χ^2/NDF : 930708.8/36

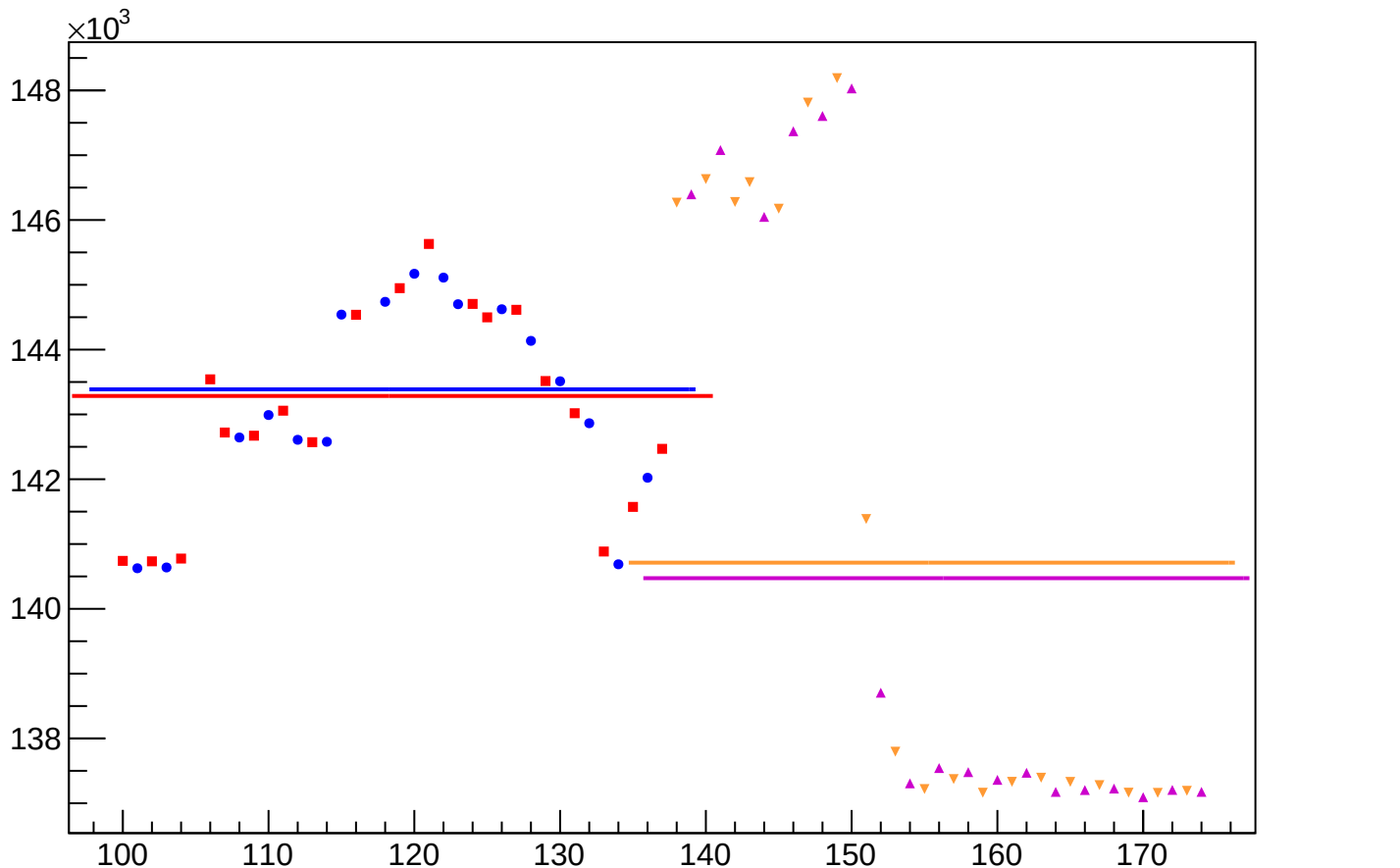
Right: 150.532 $\pm$ 0.031 χ^2/NDF : 2350963.4/35

In: 179.728 $\pm$ 0.029 χ^2/NDF : 2271166.6/34

Out: 174.619 $\pm$ 0.028 χ^2/NDF : 2313036.9/37

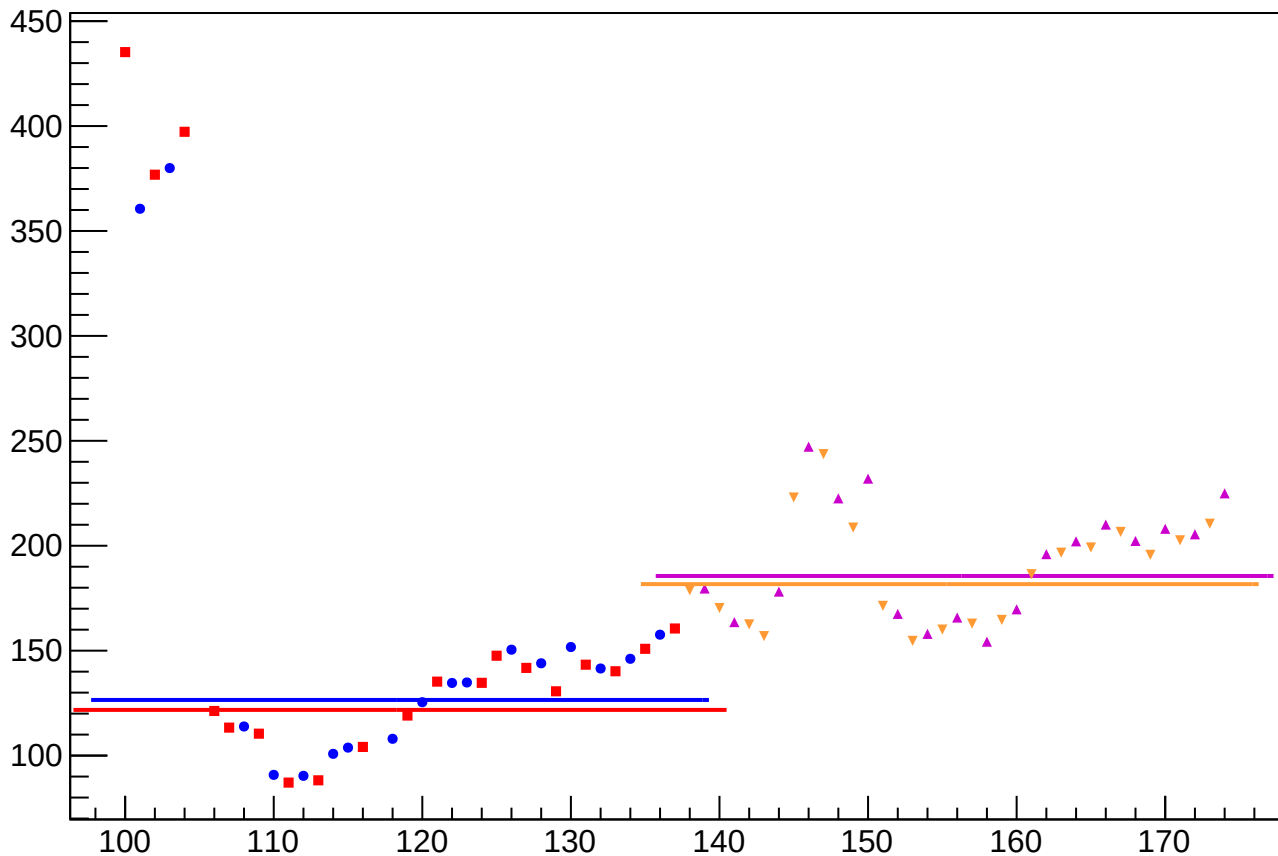
All: 177.062 $\pm$ 0.020 χ^2/NDF : 4600307.3/72

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140596.694 $\pm$ 0.035	χ^2 /NDF: 15814639006.3
Left Out: 140712.601 $\pm$ 0.049	χ^2 /NDF: 8083637012.2/18	Right: 143332.291 $\pm$ 0.036	χ^2 /NDF: 1131952524.8
Right Out: 143284.757 $\pm$ 0.049	χ^2 /NDF: 608634820.1/18	In: 141868.674 $\pm$ 0.036	χ^2 /NDF: 9832522791.8/34
Left In: 140472.902 $\pm$ 0.051	χ^2 /NDF: 7719389586.9/17	Out: 141993.758 $\pm$ 0.035	χ^2 /NDF: 10069632762.7
		All: 141934.441 $\pm$ 0.025	χ^2 /NDF: 199083343

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 181.704 $\pm$ 0.035 χ^2 /NDF:444081.9/18

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 185.592 $\pm$ 0.036 χ^2 /NDF:531145.2/17

Left: 183.584 $\pm$ 0.025 χ^2 /NDF: 981339.8/36

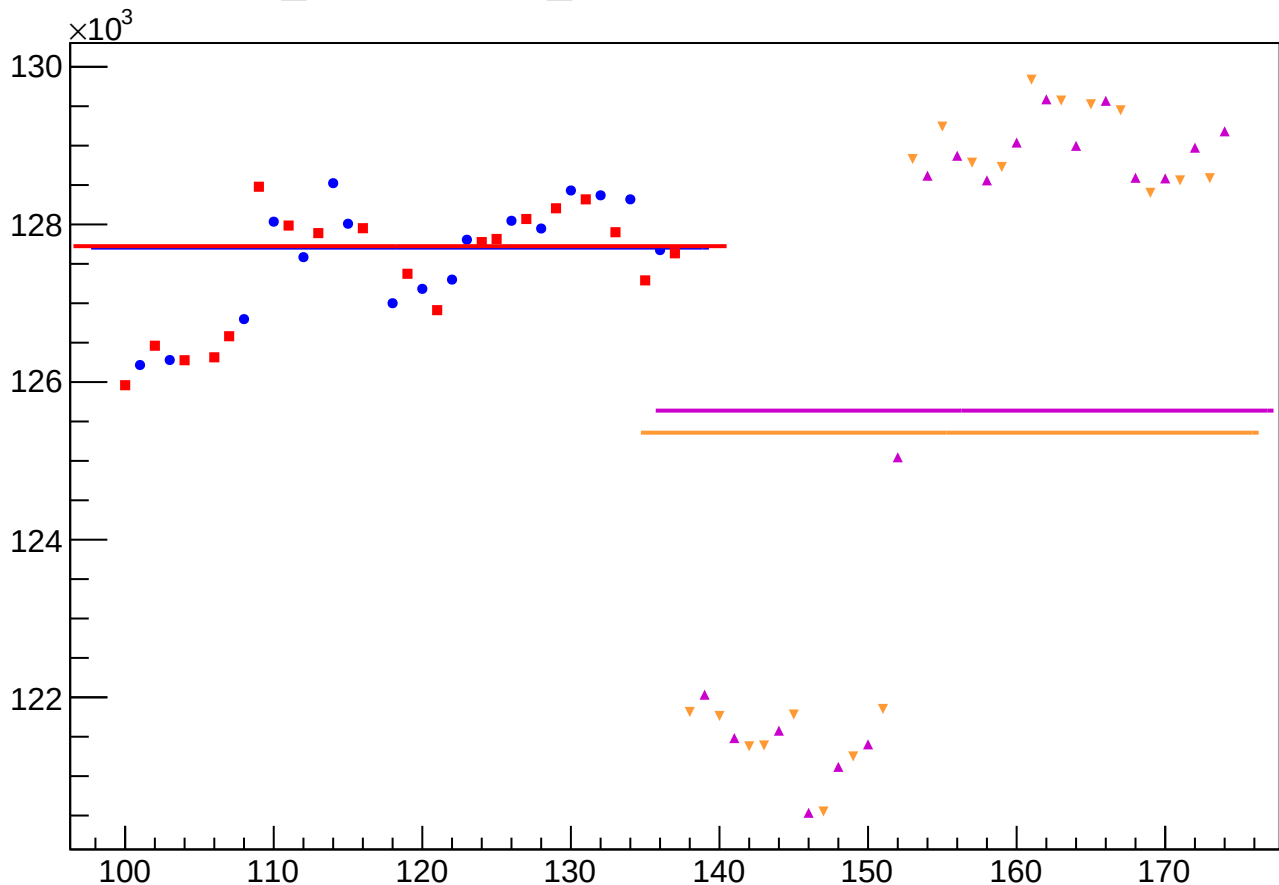
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 157.296 $\pm$ 0.026 χ^2 /NDF:3281250.8/34

Out: 151.853 $\pm$ 0.025 χ^2 /NDF:3403437.3/37

All: 154.434 $\pm$ 0.018 χ^2 /NDF: 6708095.1/72

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125357.889 $\pm$ 0.048

χ^2 /NDF: 6057521360.8/18

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Left In: 125637.870 $\pm$ 0.048

χ^2 /NDF: 5475199256.7/17

Left: 125498.311 $\pm$ 0.034

χ^2 /NDF: 11549576572.0

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126480.660 $\pm$ 0.037

χ^2 /NDF: 6325030254.6/34

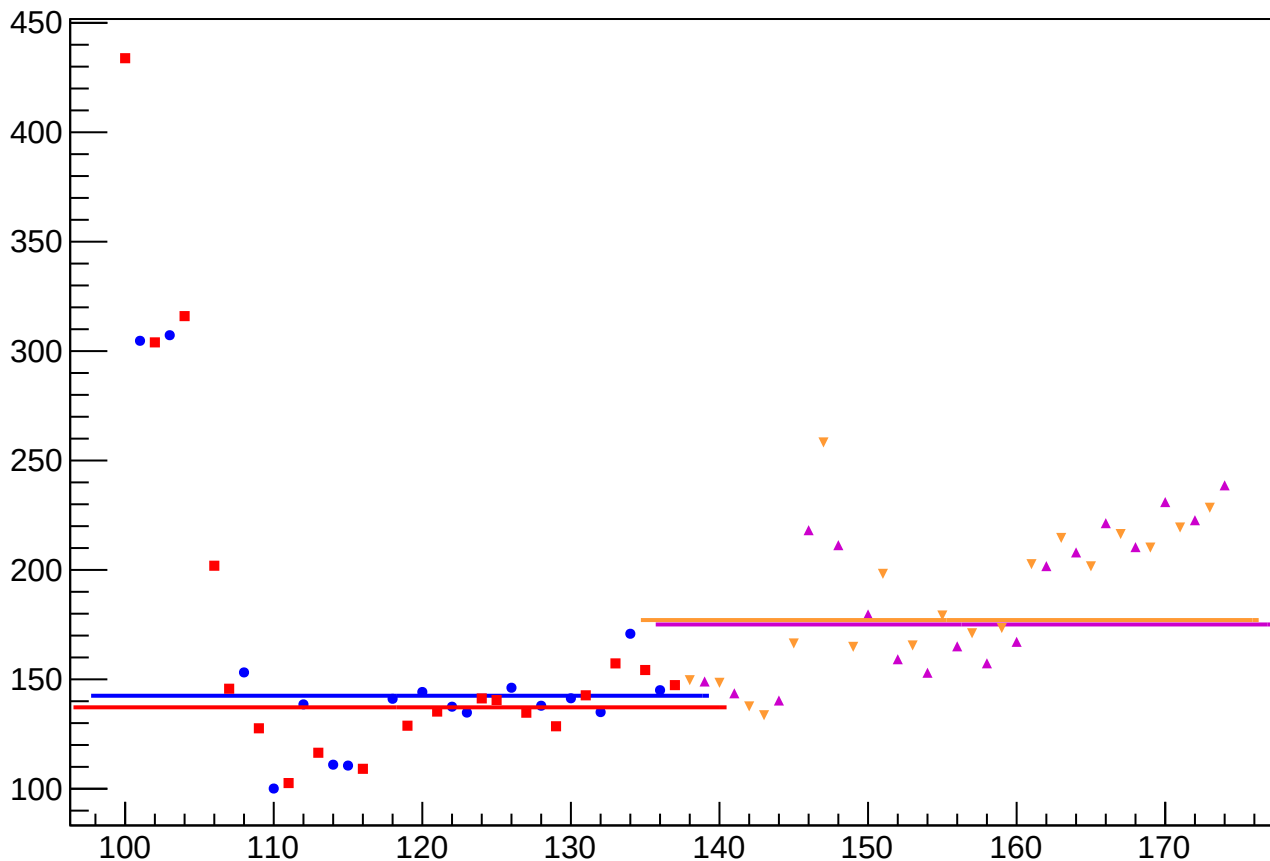
Out: 126398.182 $\pm$ 0.036

χ^2 /NDF: 7225560755.2/3

All: 126438.398 $\pm$ 0.026

χ^2 /NDF: 135531287

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 177.091 $\pm$ 0.034 χ^2 /NDF: 813040.5/18

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 175.076 $\pm$ 0.034 χ^2 /NDF: 821382.1/17

Left: 176.080 $\pm$ 0.024 χ^2 /NDF: 1636168.8/36

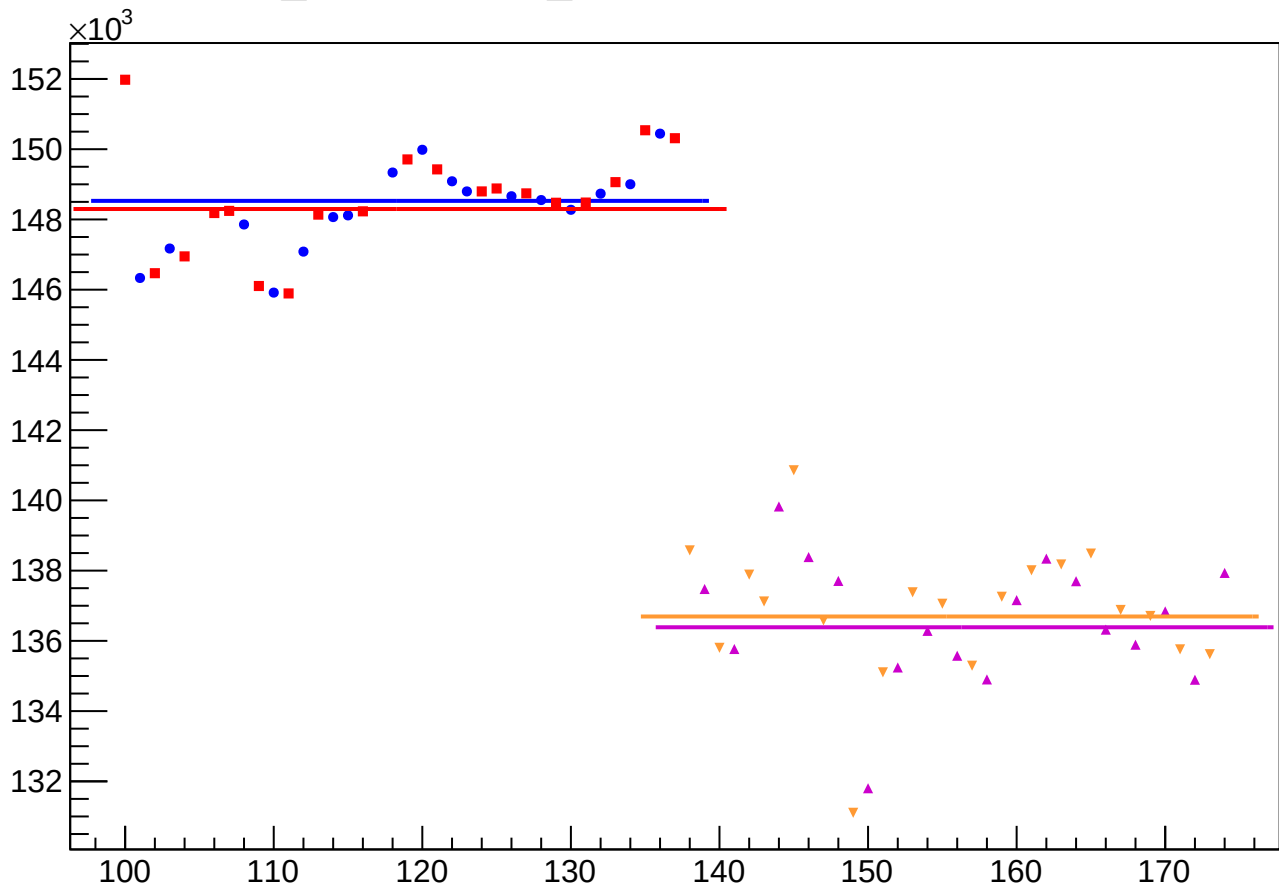
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 161.803 $\pm$ 0.026 χ^2 /NDF: 2030670.6/34

Out: 159.559 $\pm$ 0.026 χ^2 /NDF: 2369854.0/37

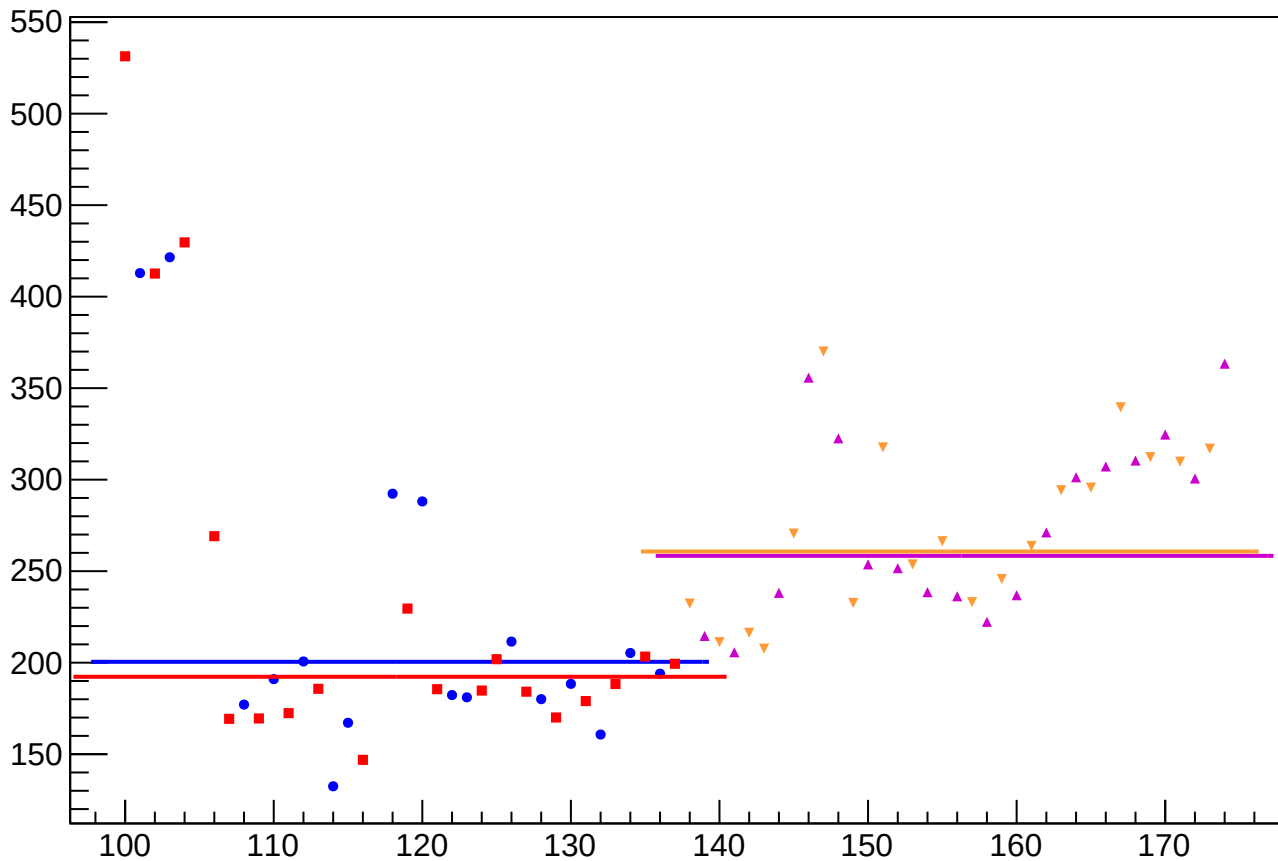
All: 160.653 $\pm$ 0.018 χ^2 /NDF: 4404279.4/72

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082	χ^2 /NDF: 209986594.2/16	Left: 136540.674 $\pm$ 0.050	χ^2 /NDF: 1527858736.8/3
Left Out: 136693.935 $\pm$ 0.071	χ^2 /NDF: 846654040.7/18	Right: 148404.723 $\pm$ 0.056	χ^2 /NDF: 507501516.8/3
Right Out: 148297.126 $\pm$ 0.076	χ^2 /NDF: 293244556.5/18	In: 141563.473 $\pm$ 0.054	χ^2 /NDF: 13437584715.3/3
Left In: 136387.243 $\pm$ 0.071	χ^2 /NDF: 671803818.3/17	Out: 142046.603 $\pm$ 0.052	χ^2 /NDF: 13561646101.9
		All: 141812.770 $\pm$ 0.037	χ^2 /NDF: 270411745

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 260.758 $\pm$ 0.050 χ^2 /NDF: 712846.4/18

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 258.376 $\pm$ 0.050 χ^2 /NDF: 755837.0/17

Left: 259.568 $\pm$ 0.035 χ^2 /NDF: 1469817.5/36

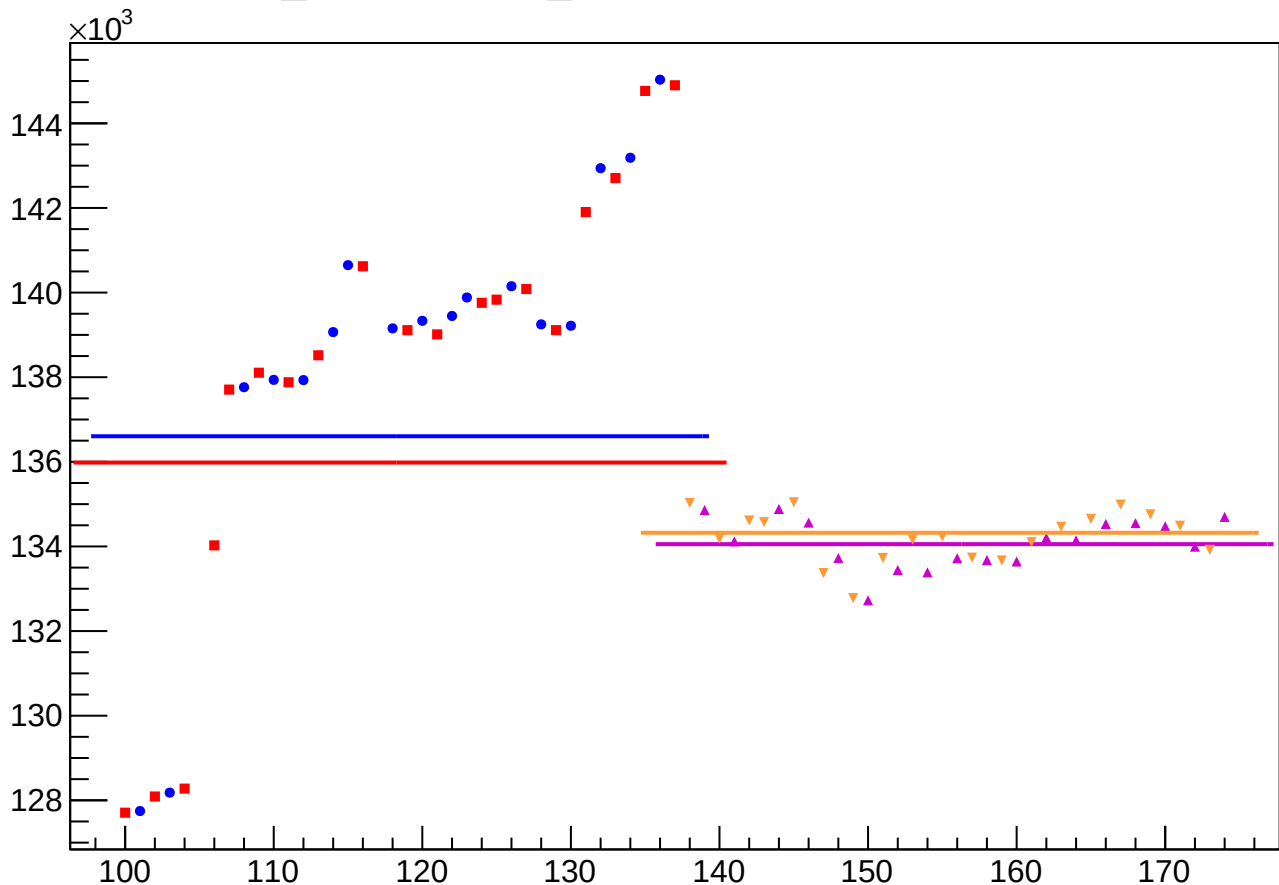
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 233.691 $\pm$ 0.038 χ^2 /NDF: 2263524.2/34

Out: 229.180 $\pm$ 0.037 χ^2 /NDF: 2422037.2/37

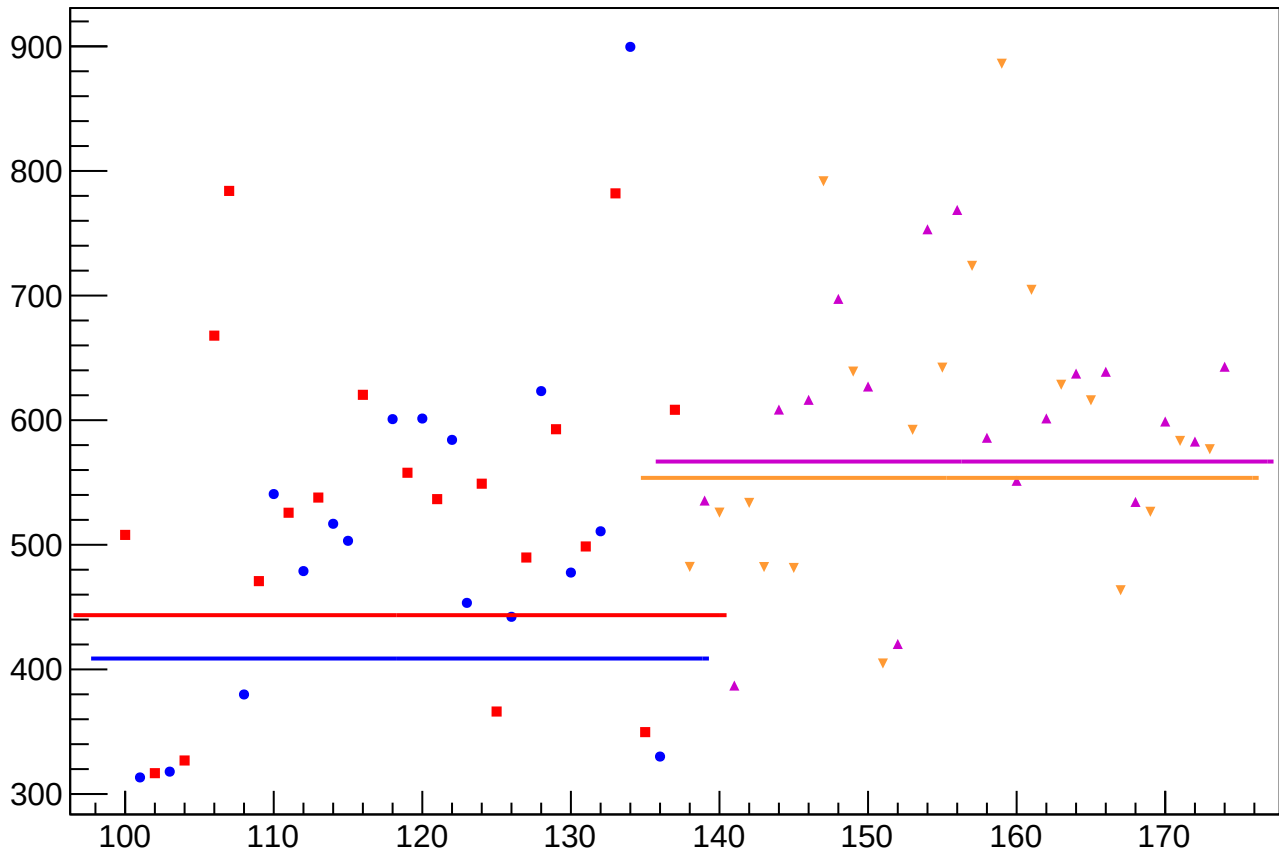
All: 231.363 $\pm$ 0.026 χ^2 /NDF: 4692874.0/72

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134195.412 $\pm$ 0.114	χ^2 /NDF: 26623993.1/36
Left Out: 134323.806 $\pm$ 0.158	χ^2 /NDF: 13691563.4/18	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/36
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135281.567 $\pm$ 0.119	χ^2 /NDF: 1620678315.0/36
Left In: 134054.898 $\pm$ 0.165	χ^2 /NDF: 11545804.0/17	Out: 135032.694 $\pm$ 0.119	χ^2 /NDF: 1143356010.9/36
		All: 135157.657 $\pm$ 0.084	χ^2 /NDF: 276621522.0/36

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 553.698 $\pm$ 0.112 χ^2 /NDF: 889208.4/18

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 566.805 $\pm$ 0.117 χ^2 /NDF: 768715.1/17

Left: 559.956 $\pm$ 0.081 χ^2 /NDF: 1664511.9/36

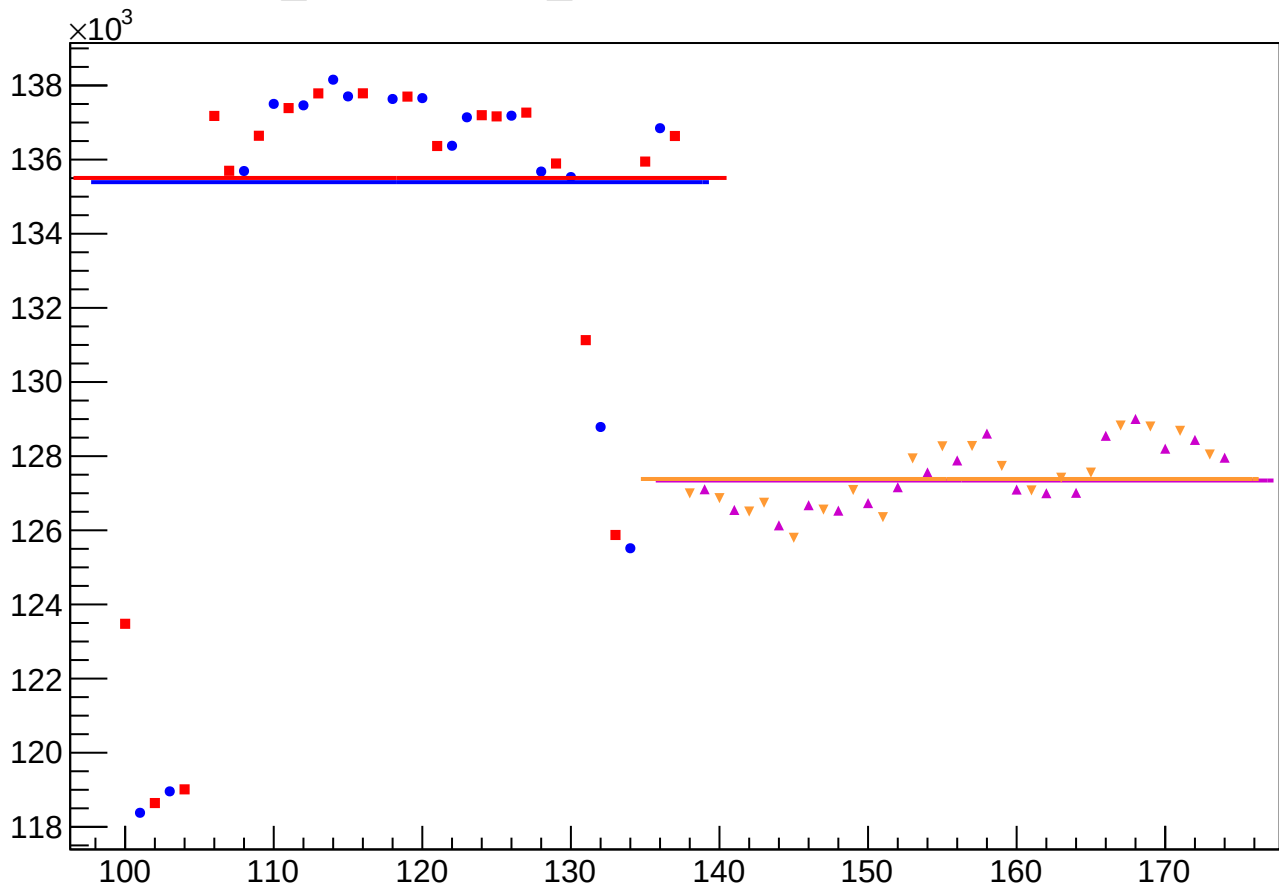
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 490.755 $\pm$ 0.084 χ^2 /NDF: 2474298.5/34

Out: 506.620 $\pm$ 0.084 χ^2 /NDF: 2223325.2/37

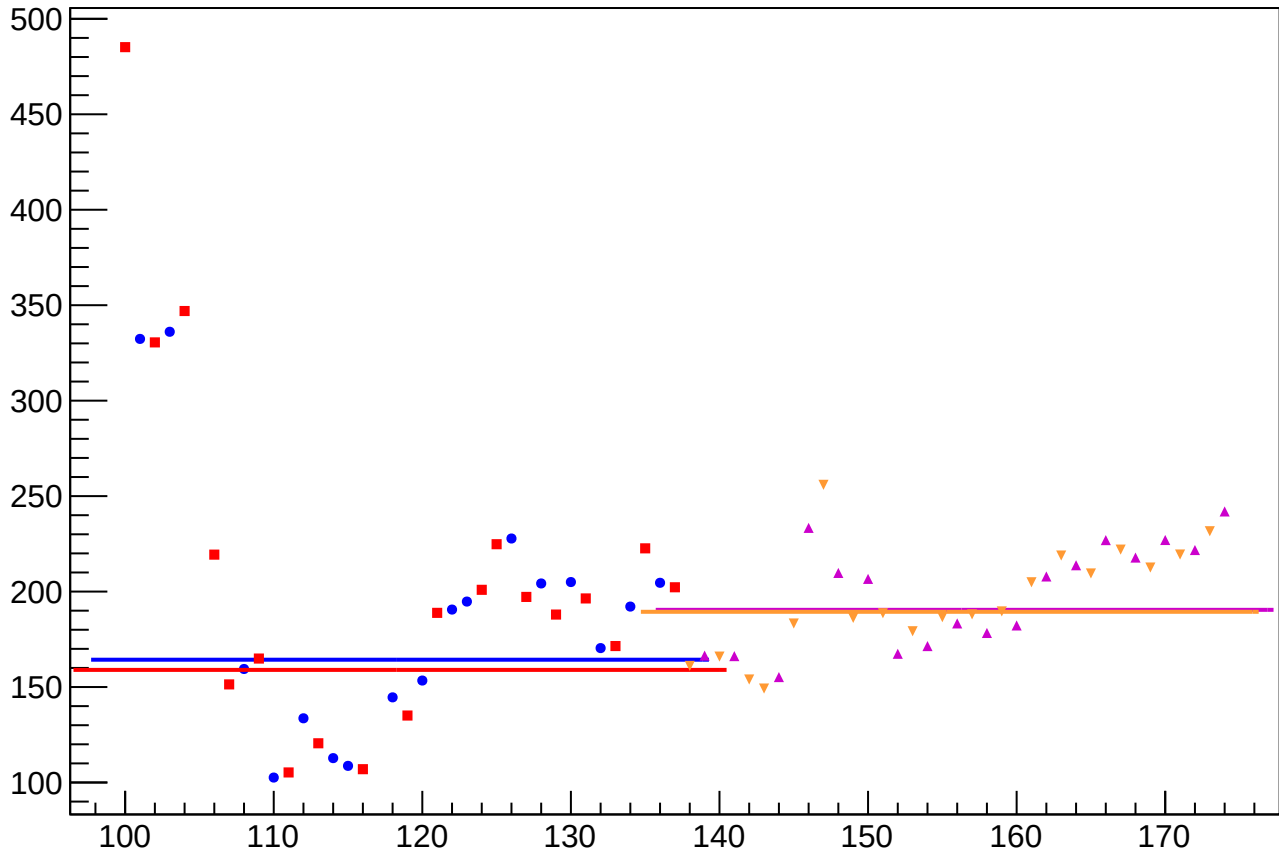
All: 498.654 $\pm$ 0.060 χ^2 /NDF: 4715349.6/72

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127363.968 $\pm$ 0.036	χ^2 /NDF: 524521973.4/36
Left Out: 127384.272 $\pm$ 0.051	χ^2 /NDF: 274719495.0/18	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/18
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130293.189 $\pm$ 0.041	χ^2 /NDF: 13634958262.0/36
Left In: 127343.054 $\pm$ 0.052	χ^2 /NDF: 249482789.1/17	Out: 130527.120 $\pm$ 0.040	χ^2 /NDF: 14754490338.7/18
		All: 130413.806 $\pm$ 0.029	χ^2 /NDF: 284059674.0/18

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2 /NDF: 1230487.8/16

Left Out: 189.410 $\pm$ 0.036 χ^2 /NDF: 502552.9/18

Right Out: 158.977 $\pm$ 0.046 χ^2 /NDF: 1384059.2/18

Left In: 190.435 $\pm$ 0.037 χ^2 /NDF: 505628.6/17

Left: 189.915 $\pm$ 0.026 χ^2 /NDF: 1008576.9/36

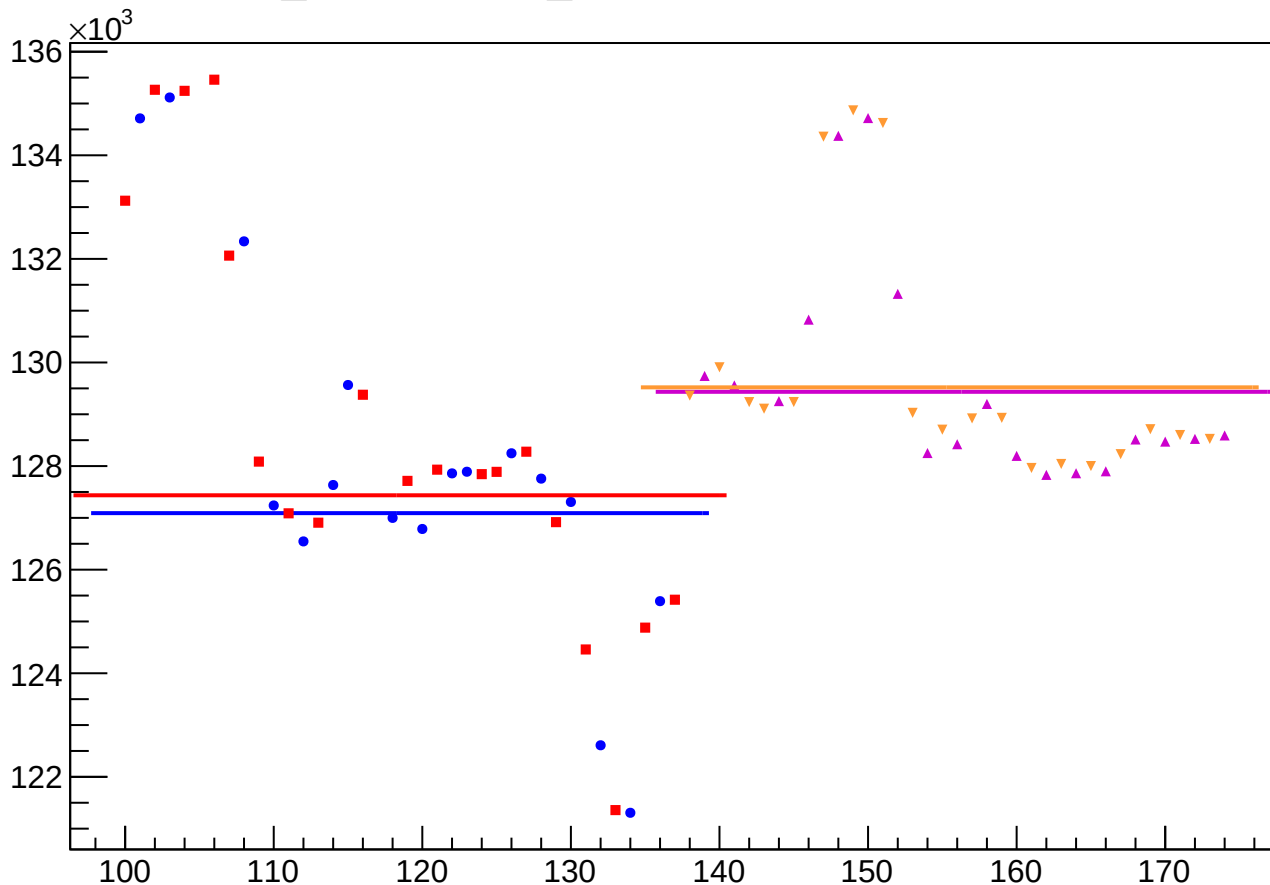
Right: 161.489 $\pm$ 0.033 χ^2 /NDF: 2621008.2/35

In: 180.859 $\pm$ 0.029 χ^2 /NDF: 1921656.7/34

Out: 177.632 $\pm$ 0.028 χ^2 /NDF: 2160455.4/37

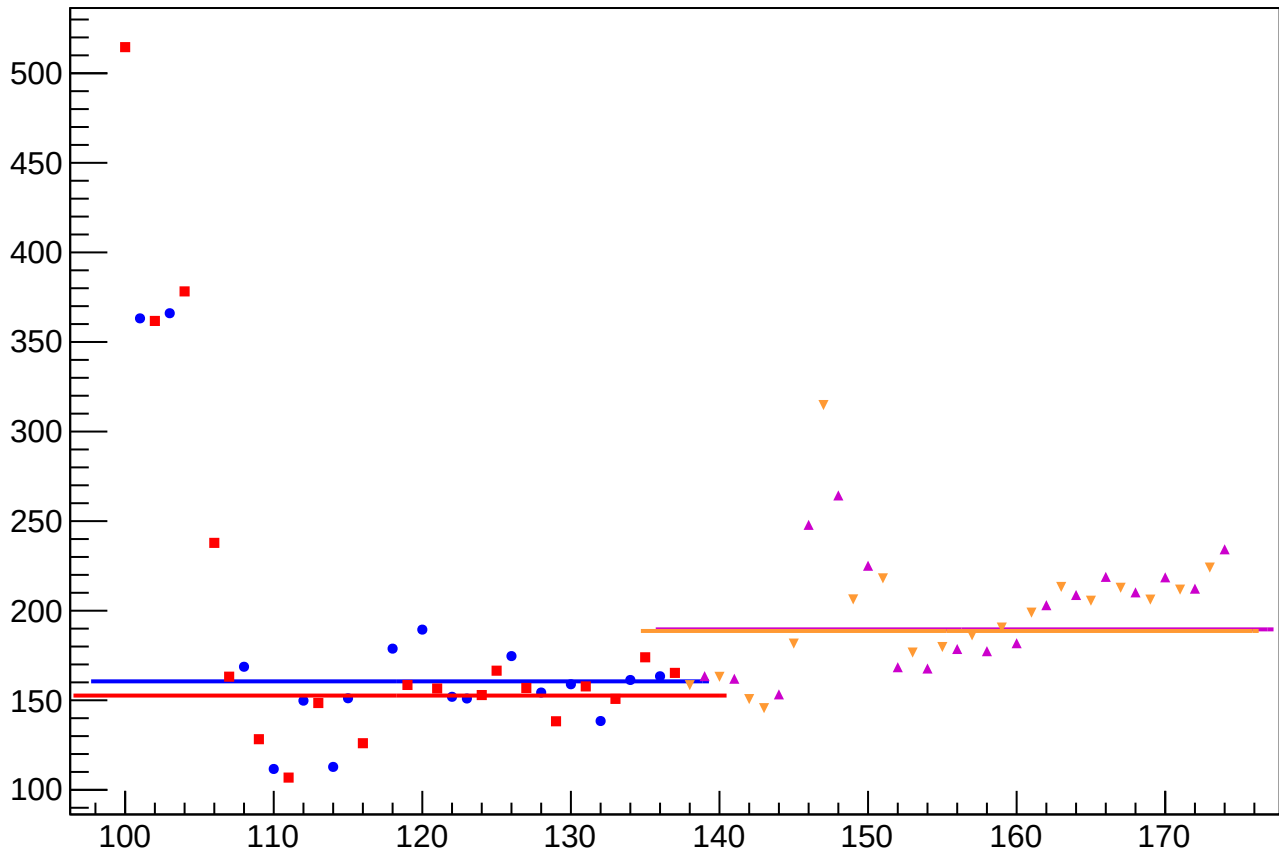
All: 179.195 $\pm$ 0.020 χ^2 /NDF: 4088400.9/72

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066	χ^2/NDF : 1717208780.6/16	Left: 129477.453+/-0.036	χ^2/NDF : 2503824197.8/3
Left Out: 129519.931+/-0.051	χ^2/NDF : 1367997633.8/18	Right: 127276.609+/-0.045	χ^2/NDF : 3810794624.3/3
Right Out: 127436.101+/-0.062	χ^2/NDF : 2079075713.9/18	In: 128544.803+/-0.041	χ^2/NDF : 3626016136.4/34
Left In: 129433.932+/-0.052	χ^2/NDF : 1134434957.3/17	Out: 128666.922+/-0.039	χ^2/NDF : 4124207634.3/3
		All: 128608.104+/-0.028	χ^2/NDF : 775485638.3/3

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 188.692 $\pm$ 0.036 χ^2 /NDF: 674518.9/18

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 189.577 $\pm$ 0.037 χ^2 /NDF: 649540.1/17

Left: 189.129 $\pm$ 0.026 χ^2 /NDF: 1324353.6/36

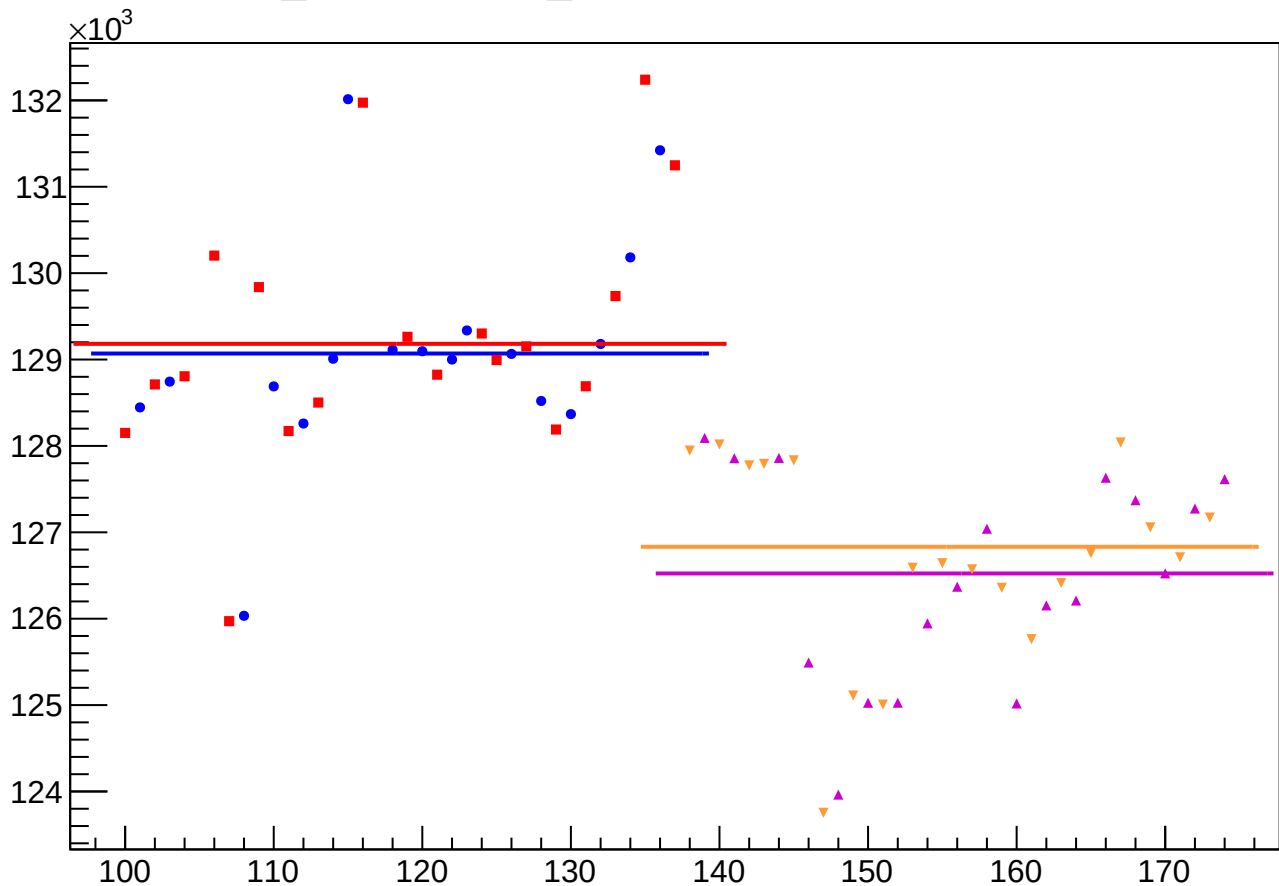
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 178.564 $\pm$ 0.029 χ^2 /NDF: 1829878.5/34

Out: 173.930 $\pm$ 0.028 χ^2 /NDF: 2166643.2/37

All: 176.162 $\pm$ 0.020 χ^2 /NDF: 4009866.5/72

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060 χ^2 /NDF: 476692316.5/16

Left Out: 126832.365 $\pm$ 0.050 χ^2 /NDF: 464133085.4/18

Right Out: 129181.887 $\pm$ 0.056 χ^2 /NDF: 625597399.6/18

Left In: 126523.680 $\pm$ 0.050 χ^2 /NDF: 568926407.6/17

Left: 126680.370 $\pm$ 0.035 χ^2 /NDF: 1052103829.0/3

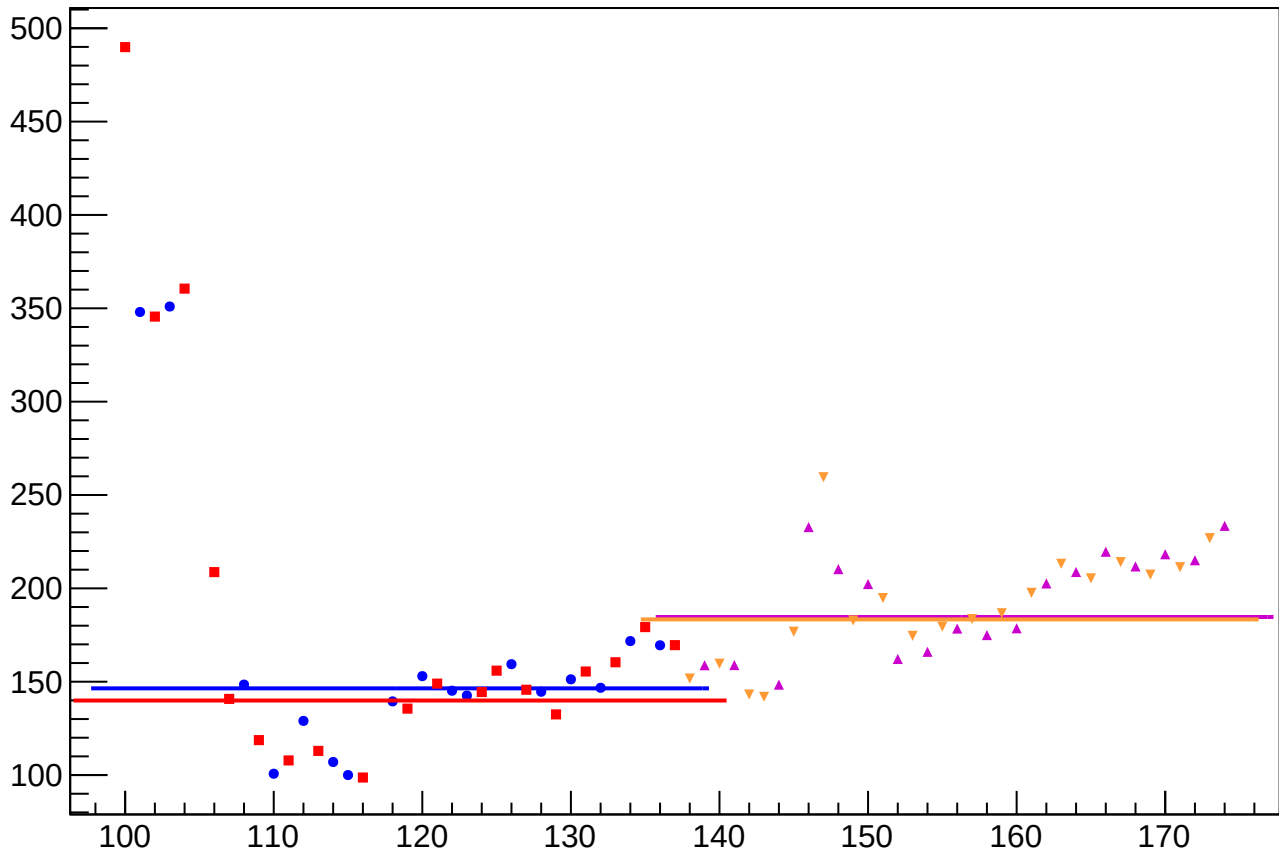
Right: 129129.710 $\pm$ 0.041 χ^2 /NDF: 1104150743.5/3

In: 127573.351 $\pm$ 0.039 χ^2 /NDF: 2097868959.2/3

Out: 127864.184 $\pm$ 0.037 χ^2 /NDF: 2073750142.0/3

All: 127724.380 $\pm$ 0.027 χ^2 /NDF: 420104618.0/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 183.366 $\pm$ 0.035 χ^2 /NDF:604312.4/18

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 184.669 $\pm$ 0.036 χ^2 /NDF:556055.5/17

Left: 184.008 $\pm$ 0.025 χ^2 /NDF: 1161046.3/36

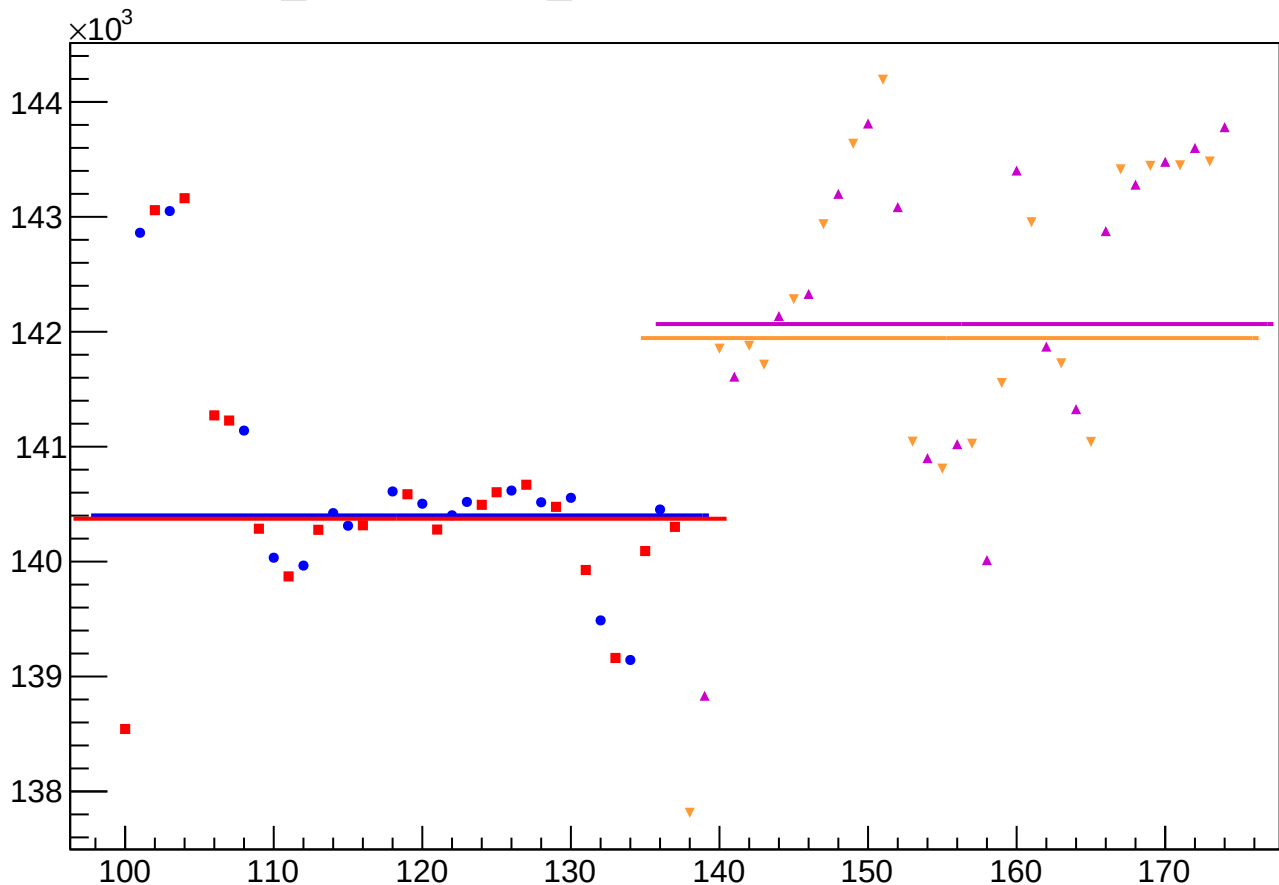
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 168.907 $\pm$ 0.027 χ^2 /NDF:2095402.1/34

Out: 164.290 $\pm$ 0.026 χ^2 /NDF:2480554.8/37

All: 166.510 $\pm$ 0.019 χ^2 /NDF: 4590785.4/72

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142005.407 $\pm$ 0.041

χ^2 /NDF: 1339191331.9/3

Left Out: 141944.978 $\pm$ 0.057

χ^2 /NDF: 732827228.7/18

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

In: 141323.154 $\pm$ 0.043

χ^2 /NDF: 1062623057.4/3

Out: 141194.780 $\pm$ 0.041

χ^2 /NDF: 1193201887.8/3

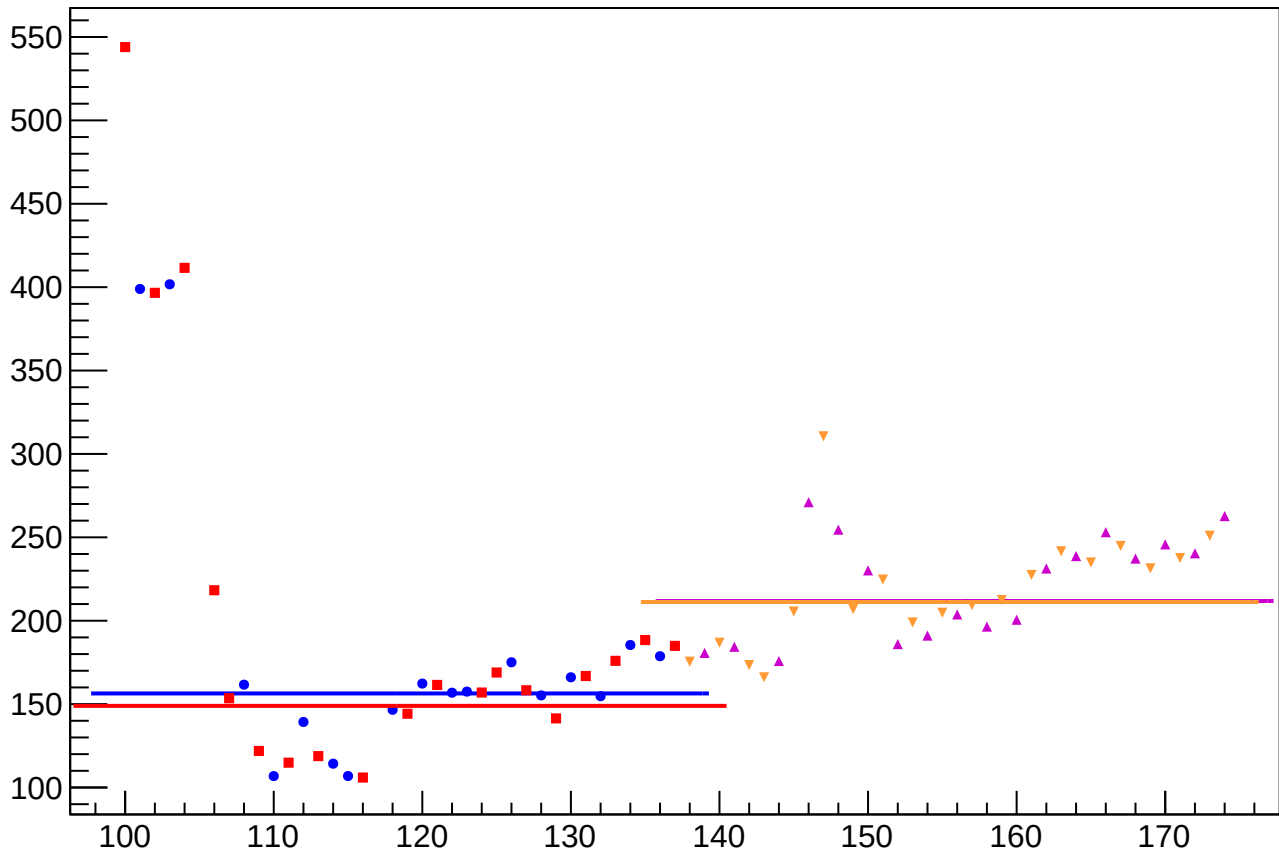
Left In: 142067.199 $\pm$ 0.058

χ^2 /NDF: 604106041.2/17

All: 141256.435 $\pm$ 0.030

χ^2 /NDF: 226045442

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394+/-0.046 χ^2/NDF : 1154804.2/16

Left Out: 211.225+/-0.040 χ^2/NDF : 532916.3/18

Right Out: 148.949+/-0.042 χ^2/NDF : 1307651.5/18

Left In: 211.837+/-0.041 χ^2/NDF : 522701.1/17

Left: 211.528+/-0.029 χ^2/NDF : 1055730.6/36

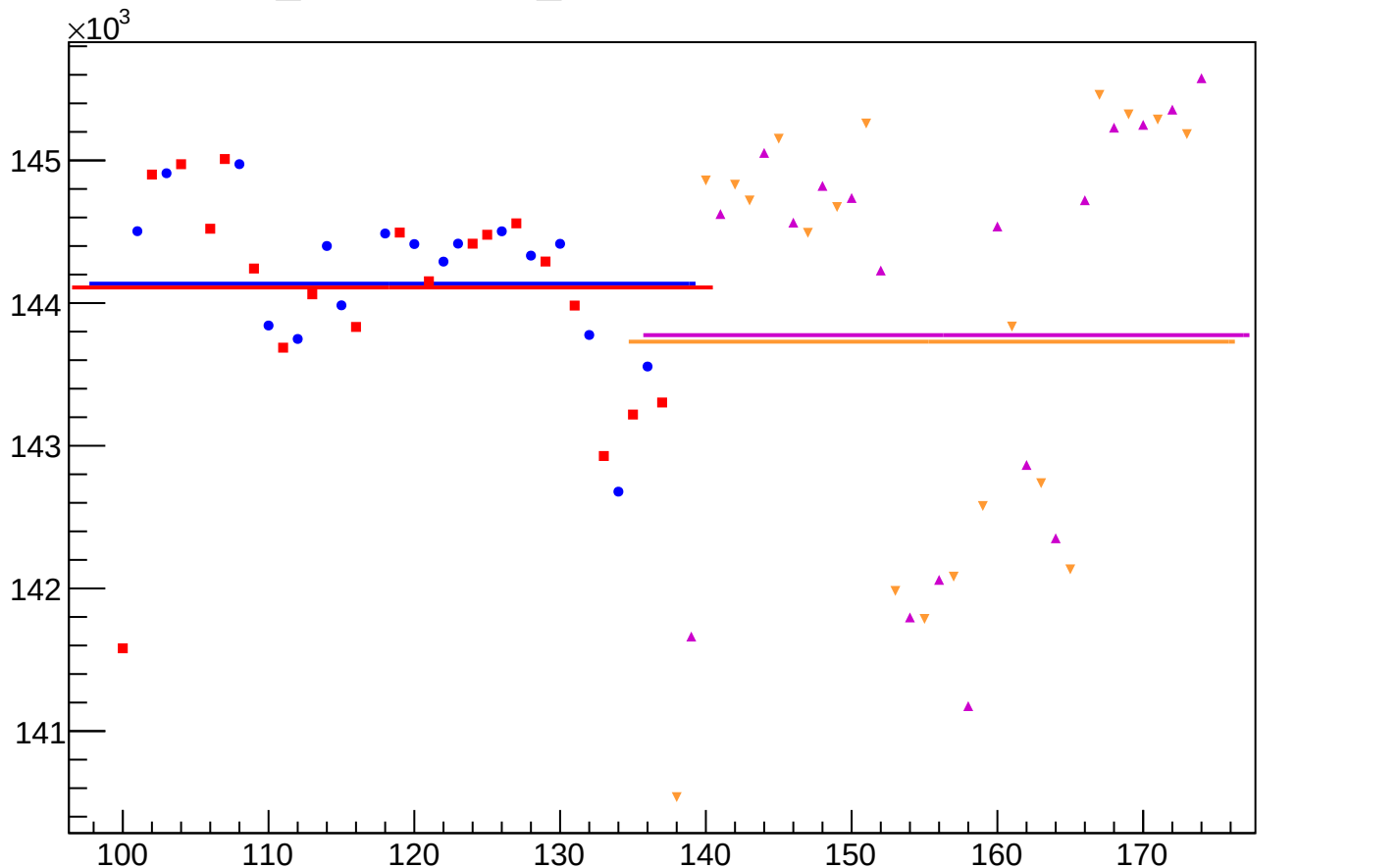
Right: 152.402+/-0.031 χ^2/NDF : 2476807.4/35

In: 187.064+/-0.030 χ^2/NDF : 2498858.7/34

Out: 181.502+/-0.029 χ^2/NDF : 2972436.9/37

All: 184.173+/-0.021 χ^2/NDF : 5488674.3/72

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2/NDF : 47069480.3/16

Left: 143752.101 $\pm$ 0.041

χ^2/NDF : 1422680995.1/3

Left Out: 143729.533 $\pm$ 0.057

χ^2/NDF : 765945794.4/18

Right: 144121.752 $\pm$ 0.045

χ^2/NDF : 112414138.5/3

Right Out: 144109.419 $\pm$ 0.062

χ^2/NDF : 65258627.2/18

In: 143929.895 $\pm$ 0.044

χ^2/NDF : 720173973.8/34

Out: 143903.764 $\pm$ 0.042

χ^2/NDF : 851615071.2/37

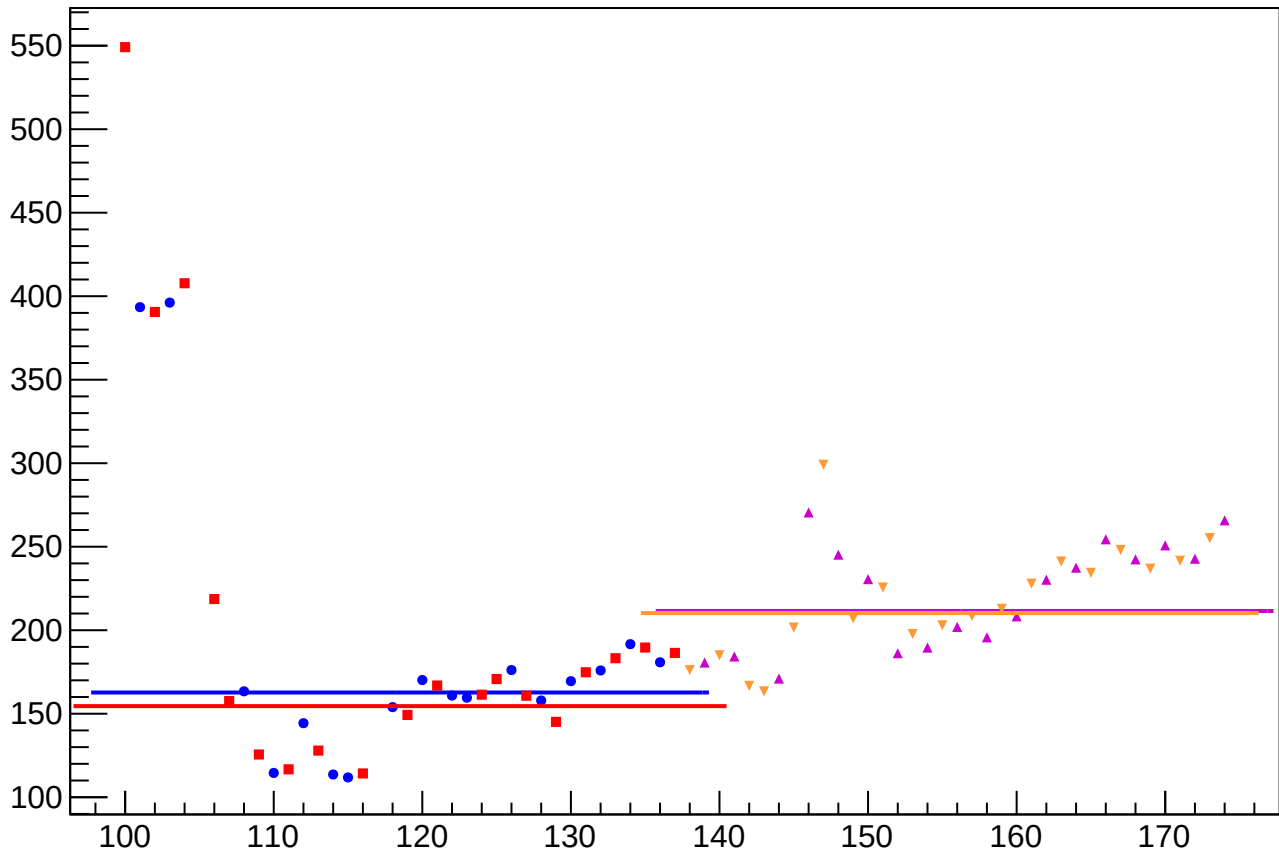
Left In: 143775.352 $\pm$ 0.058

χ^2/NDF : 656416331.0/17

All: 143916.280 $\pm$ 0.030

χ^2/NDF : 157197533

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 210.271 $\pm$ 0.040 χ^2 /NDF:573808.6/18

Right Out: 154.547 $\pm$ 0.044 χ^2 /NDF: 1217495.9/18

Left In: 211.534 $\pm$ 0.041 χ^2 /NDF:556120.6/17

Left: 210.893 $\pm$ 0.029 χ^2 /NDF: 1130413.4/36

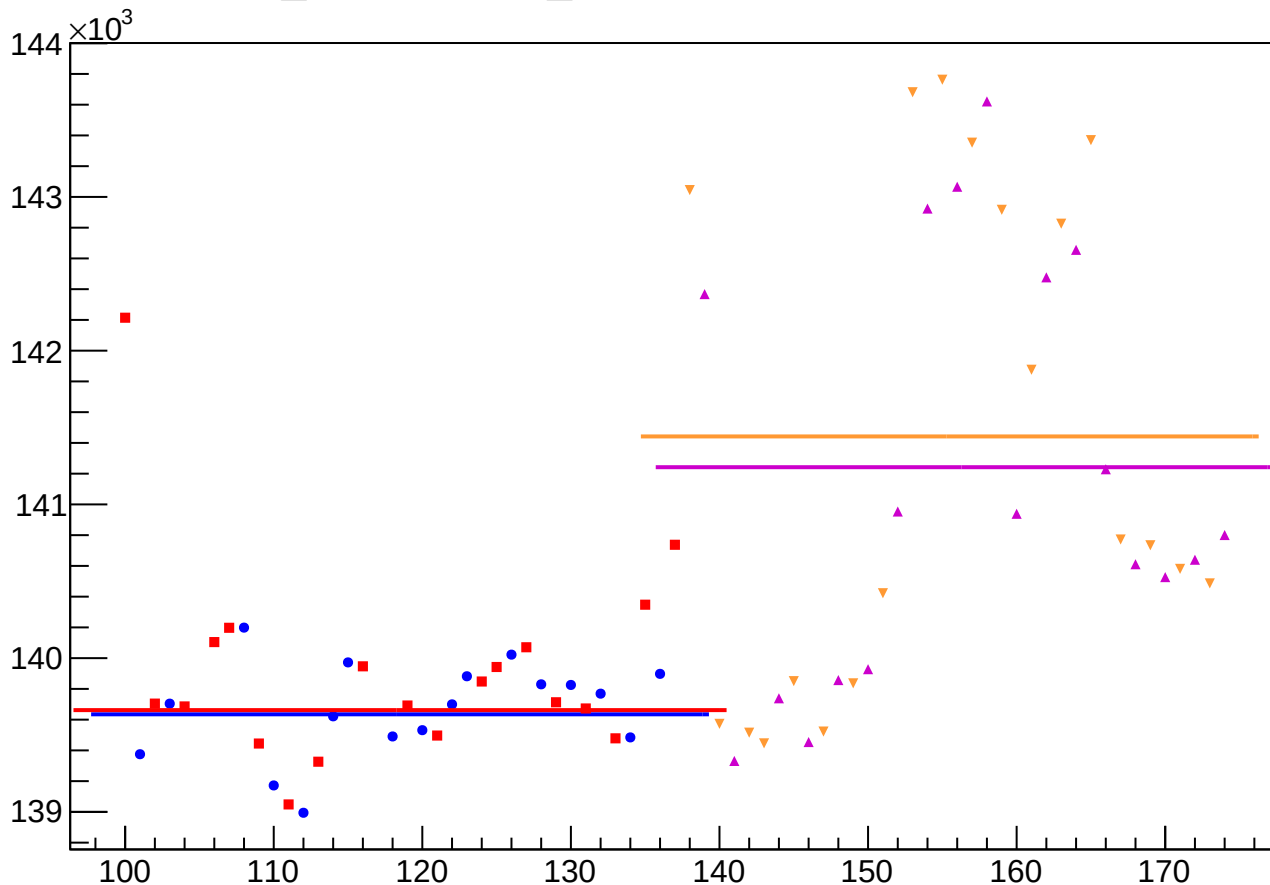
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 190.621 $\pm$ 0.031 χ^2 /NDF:2233793.3/34

Out: 184.714 $\pm$ 0.030 χ^2 /NDF:2669661.1/37

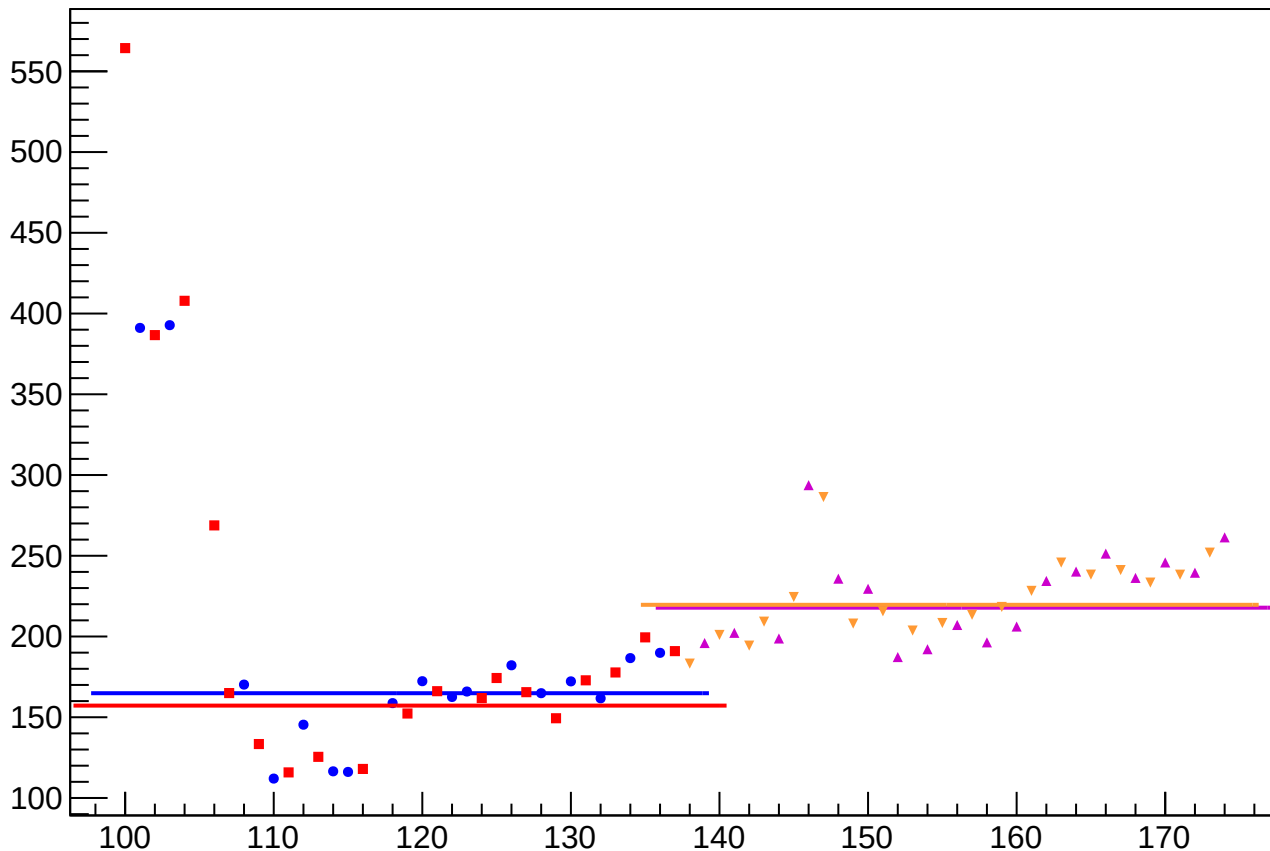
All: 187.543 $\pm$ 0.021 χ^2 /NDF: 4922492.9/72

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068	χ^2/NDF : 24844912.0/16	Left: 141342.493+/-0.042	χ^2/NDF : 1280099627.1/3
Left Out: 141442.121+/-0.059	χ^2/NDF : 741777556.0/18	Right: 139649.322+/-0.046	χ^2/NDF : 63304699.0/35
Right Out: 139661.970+/-0.063	χ^2/NDF : 38372985.0/18	In: 140544.588+/-0.045	χ^2/NDF : 875835311.0/34
Left In: 141242.040+/-0.059	χ^2/NDF : 532614054.0/17	Out: 140609.433+/-0.043	χ^2/NDF : 1204610349.3/3
		All: 140578.143+/-0.031	χ^2/NDF : 208153727

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884+/-0.048 χ^2/NDF : 1066270.8/16

Left Out: 219.623+/-0.042 χ^2/NDF : 270616.9/18

Right Out: 157.207+/-0.045 χ^2/NDF : 1245030.9/18

Left In: 217.845+/-0.042 χ^2/NDF : 380039.2/17

Left: 218.738+/-0.030 χ^2/NDF : 651557.8/36

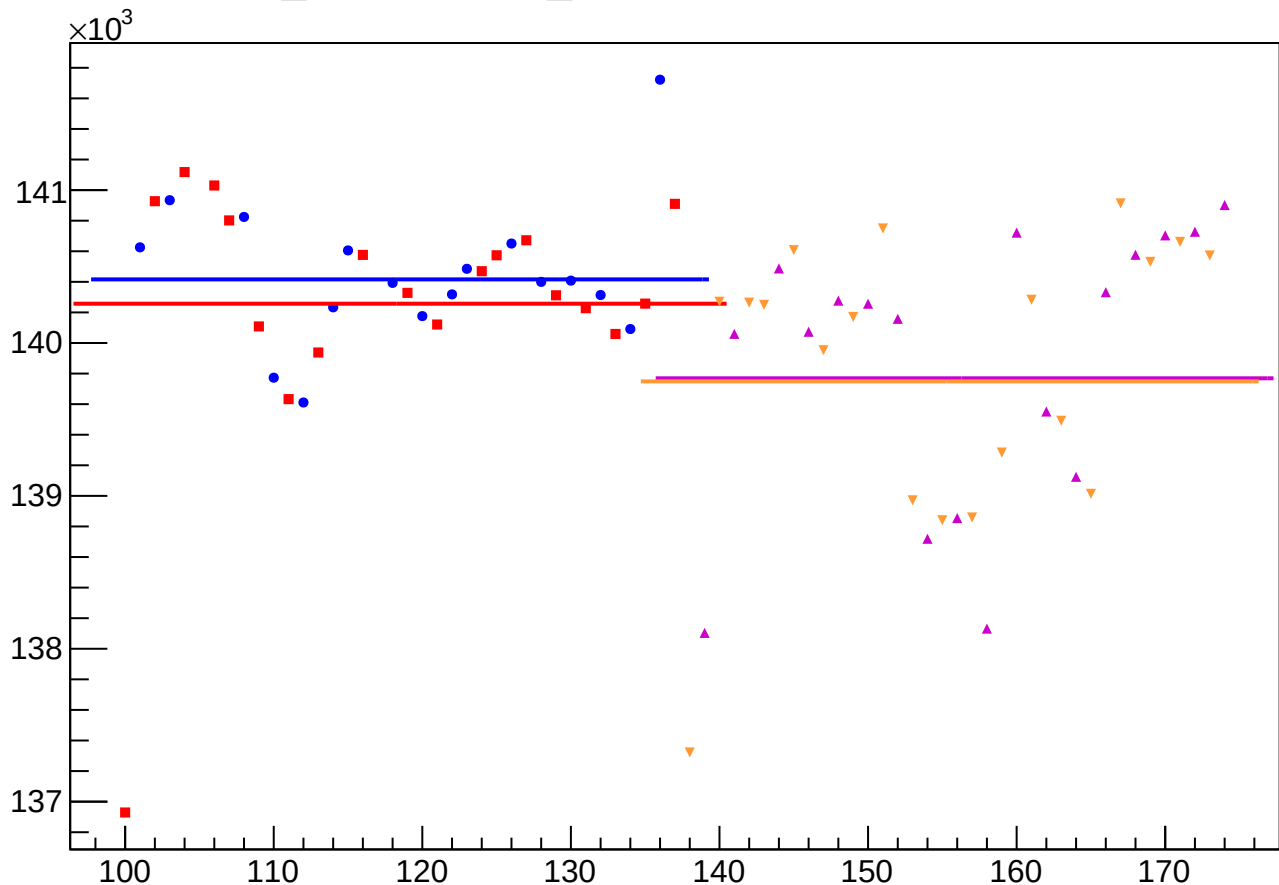
Right: 160.768+/-0.033 χ^2/NDF : 2325060.5/35

In: 194.864+/-0.032 χ^2/NDF : 2137596.0/34

Out: 190.427+/-0.030 χ^2/NDF : 2559262.5/37

All: 192.568+/-0.022 χ^2/NDF : 4707080.8/72

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 ± 0.068

$\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139748.903 ± 0.056

$\chi^2/\text{NDF}: 300995115.7/18$

Right Out: 140256.992 ± 0.063

$\chi^2/\text{NDF}: 38063371.4/18$

Left In: 139769.042 ± 0.057

$\chi^2/\text{NDF}: 264212055.7/17$

Left: 139758.812 ± 0.040

$\chi^2/\text{NDF}: 565271193.8/36$

Right: 140330.188 ± 0.046

$\chi^2/\text{NDF}: 110959487.0/36$

In: 140032.741 ± 0.044

$\chi^2/\text{NDF}: 387208874.1/34$

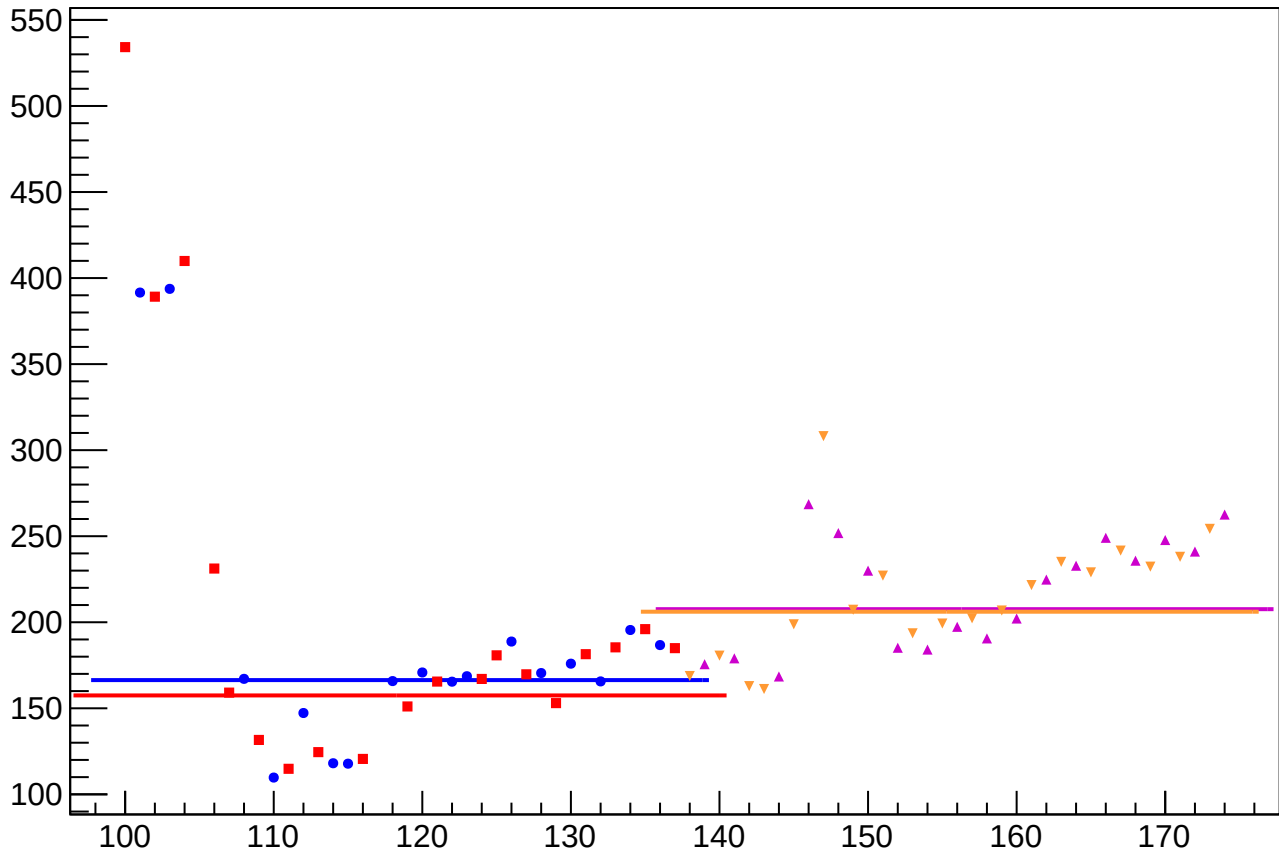
Out: 139971.842 ± 0.042

$\chi^2/\text{NDF}: 375395997.3/37$

All: 140000.984 ± 0.030

$\chi^2/\text{NDF}: 763619303.0/100$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 206.129 $\pm$ 0.039 χ^2 /NDF: 629796.7/18

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 207.600 $\pm$ 0.040 χ^2 /NDF: 600800.0/17

Left: 206.853 $\pm$ 0.028 χ^2 /NDF: 1231279.5/36

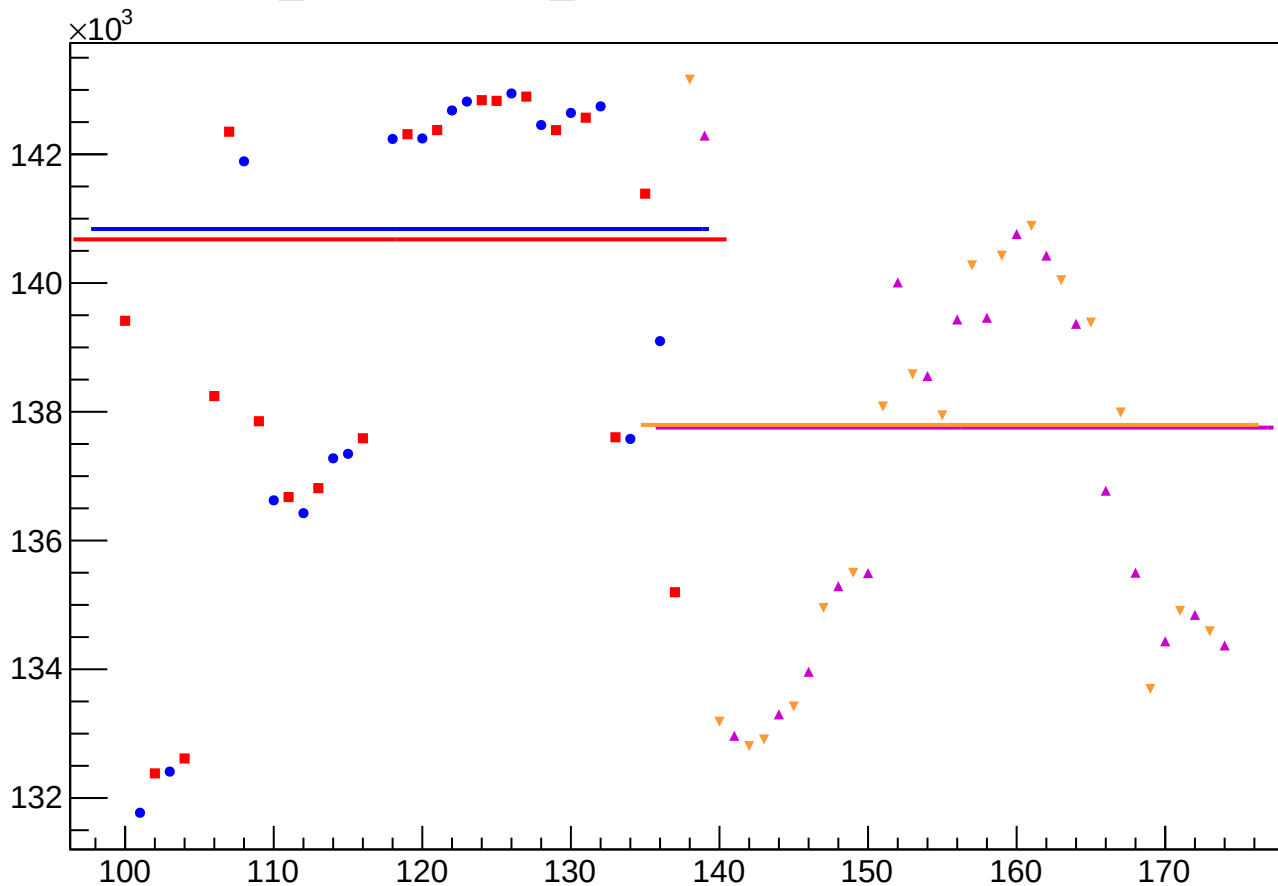
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 190.803 $\pm$ 0.031 χ^2 /NDF: 2111980.2/34

Out: 184.781 $\pm$ 0.030 χ^2 /NDF: 2526092.9/37

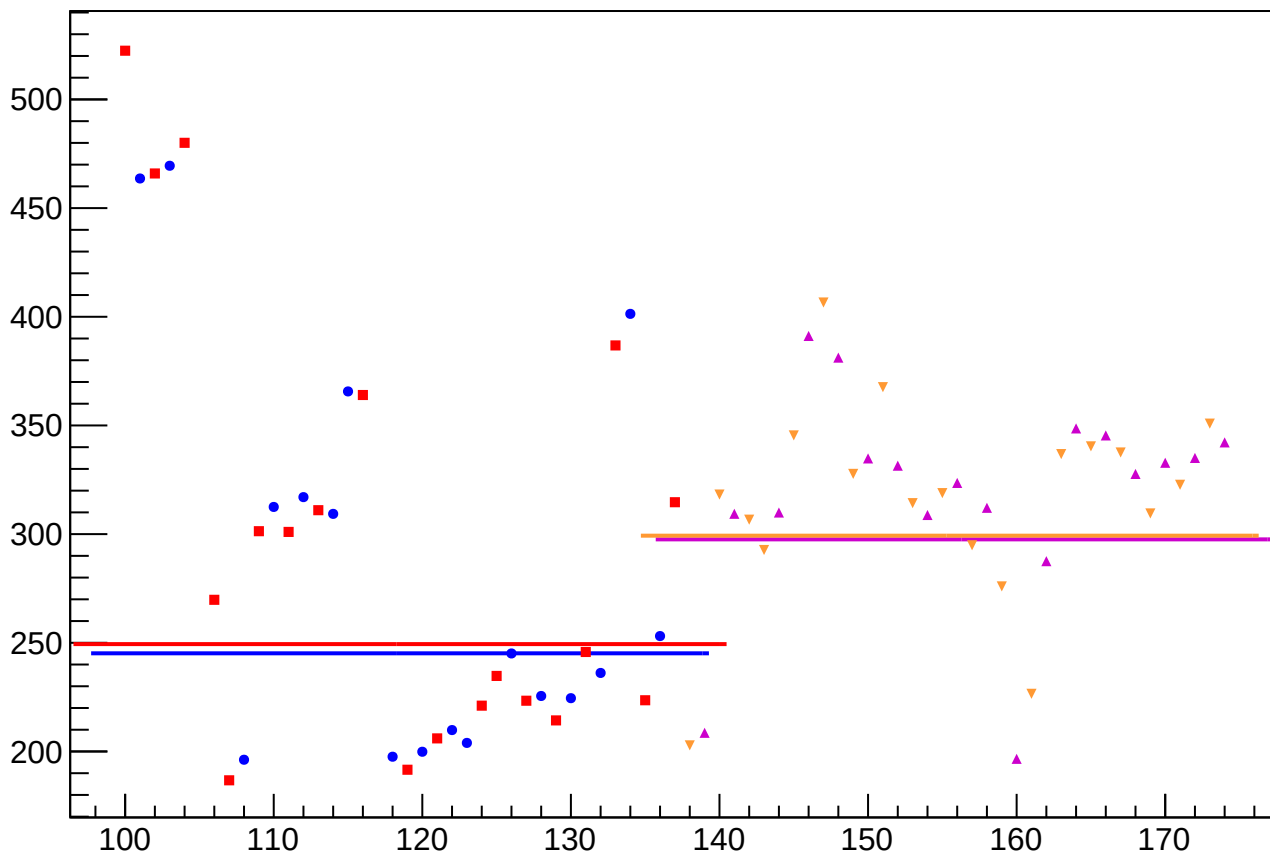
All: 187.663 $\pm$ 0.021 χ^2 /NDF: 4657916.7/72

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 137775.476 $\pm$ 0.058	χ^2/NDF : 3105346501.4/3
Left Out: 137796.449 $\pm$ 0.082	χ^2/NDF : 1698028969.5/18	Right: 140758.088 $\pm$ 0.070	χ^2/NDF : 1664679717.2/3
Right Out: 140678.513 $\pm$ 0.099	χ^2/NDF : 840695274.4/18	In: 139001.749 $\pm$ 0.064	χ^2/NDF : 2796554246.0/3
Left In: 137754.210 $\pm$ 0.082	χ^2/NDF : 1407185266.1/17	Out: 138965.033 $\pm$ 0.063	χ^2/NDF : 3041565630.3/3
		All: 138983.247 $\pm$ 0.045	χ^2/NDF : 583828783.0/3

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 299.285 $\pm$ 0.058 χ^2 /NDF: 803516.9/18

Right Out: 249.397 $\pm$ 0.070 χ^2 /NDF: 1009731.2/18

Left In: 297.584 $\pm$ 0.058 χ^2 /NDF: 992173.2/17

Left: 298.440 $\pm$ 0.041 χ^2 /NDF: 1796119.2/36

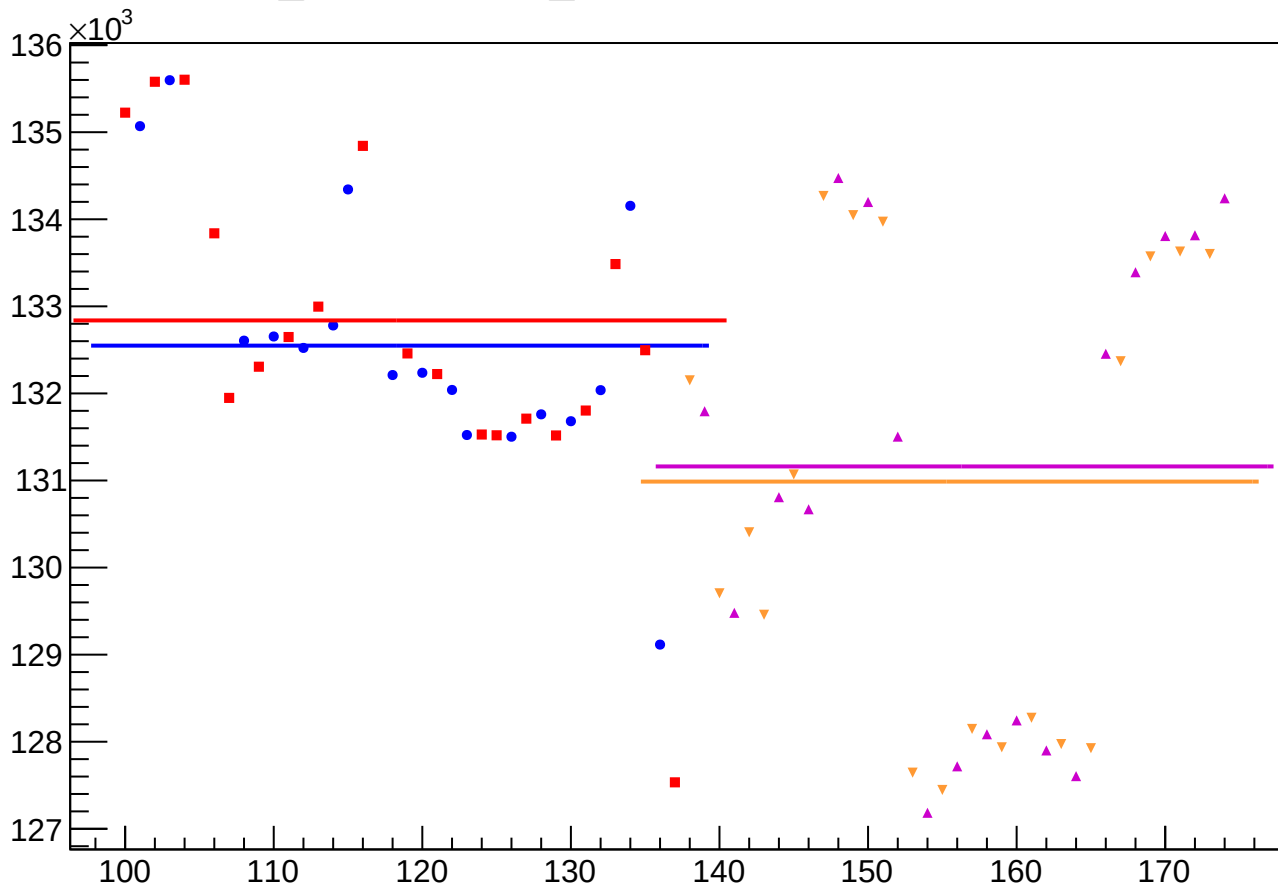
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 276.383 $\pm$ 0.045 χ^2 /NDF: 2188976.6/34

Out: 279.057 $\pm$ 0.045 χ^2 /NDF: 2114583.2/37

All: 277.731 $\pm$ 0.032 χ^2 /NDF: 4305341.0/72

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2/NDF : 161115079.9/16

Left Out: 130987.511 $\pm$ 0.070 χ^2/NDF : 1036127852.7/18

Right Out: 132838.294 $\pm$ 0.107 χ^2/NDF : 149611447.6/18

Left In: 131161.561 $\pm$ 0.073 χ^2/NDF : 1020058365.5/17

Left: 131071.261 $\pm$ 0.050 χ^2/NDF : 2059172082.2/3

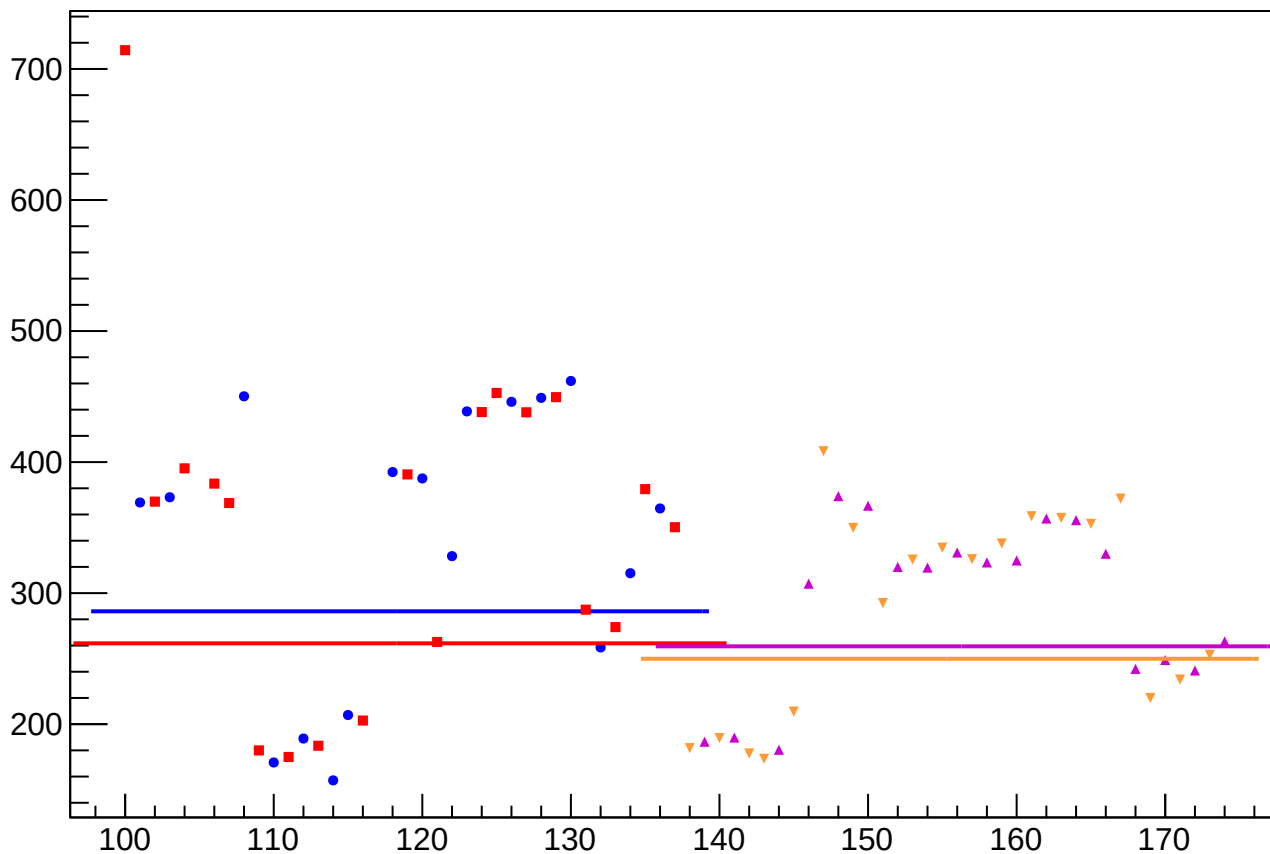
Right: 132709.226 $\pm$ 0.080 χ^2/NDF : 313982981.1/3

In: 131535.794 $\pm$ 0.062 χ^2/NDF : 1279807959.1/3

Out: 131540.052 $\pm$ 0.059 χ^2/NDF : 1395213241.4/3

All: 131538.046 $\pm$ 0.043 χ^2/NDF : 267502365

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 249.915+/-0.049 χ^2/NDF : 2138498.6/18

Right Out: 261.686+/-0.076 χ^2/NDF : 1623174.1/18

Left In: 259.388+/-0.051 χ^2/NDF : 1656751.4/17

Left: 254.473+/-0.036 χ^2/NDF : 3812941.0/36

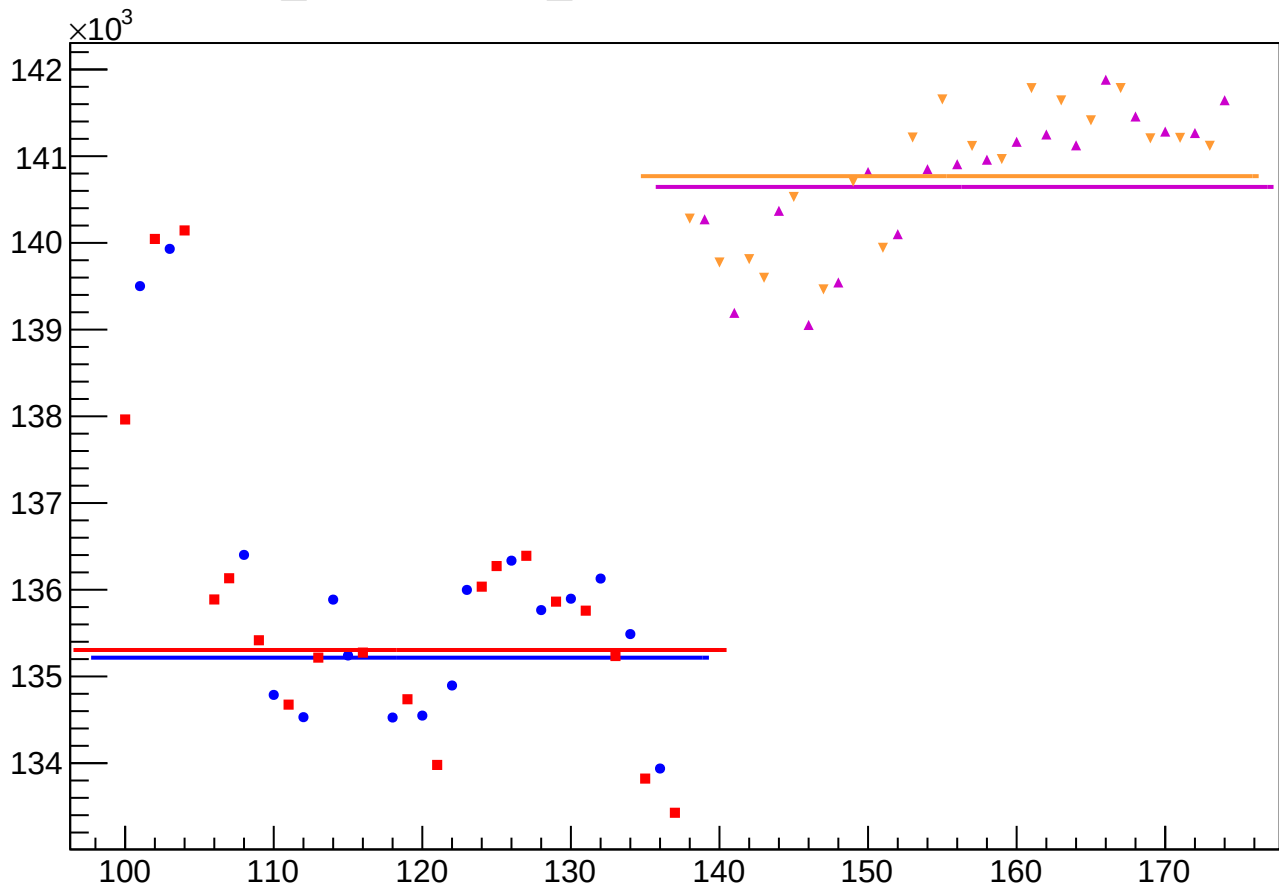
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 266.600+/-0.044 χ^2/NDF : 3255272.0/34

Out: 253.429+/-0.041 χ^2/NDF : 3778620.4/37

All: 259.634+/-0.030 χ^2/NDF : 7081623.8/72

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140769.697 $\pm$ 0.052 χ^2 /NDF: 203100910.7/18

Right Out: 135305.135 $\pm$ 0.051 χ^2 /NDF: 357636841.6/18

Left In: 140645.558 $\pm$ 0.054 χ^2 /NDF: 190707452.1/17

Left: 140710.077 $\pm$ 0.038 χ^2 /NDF: 396525758.0/36

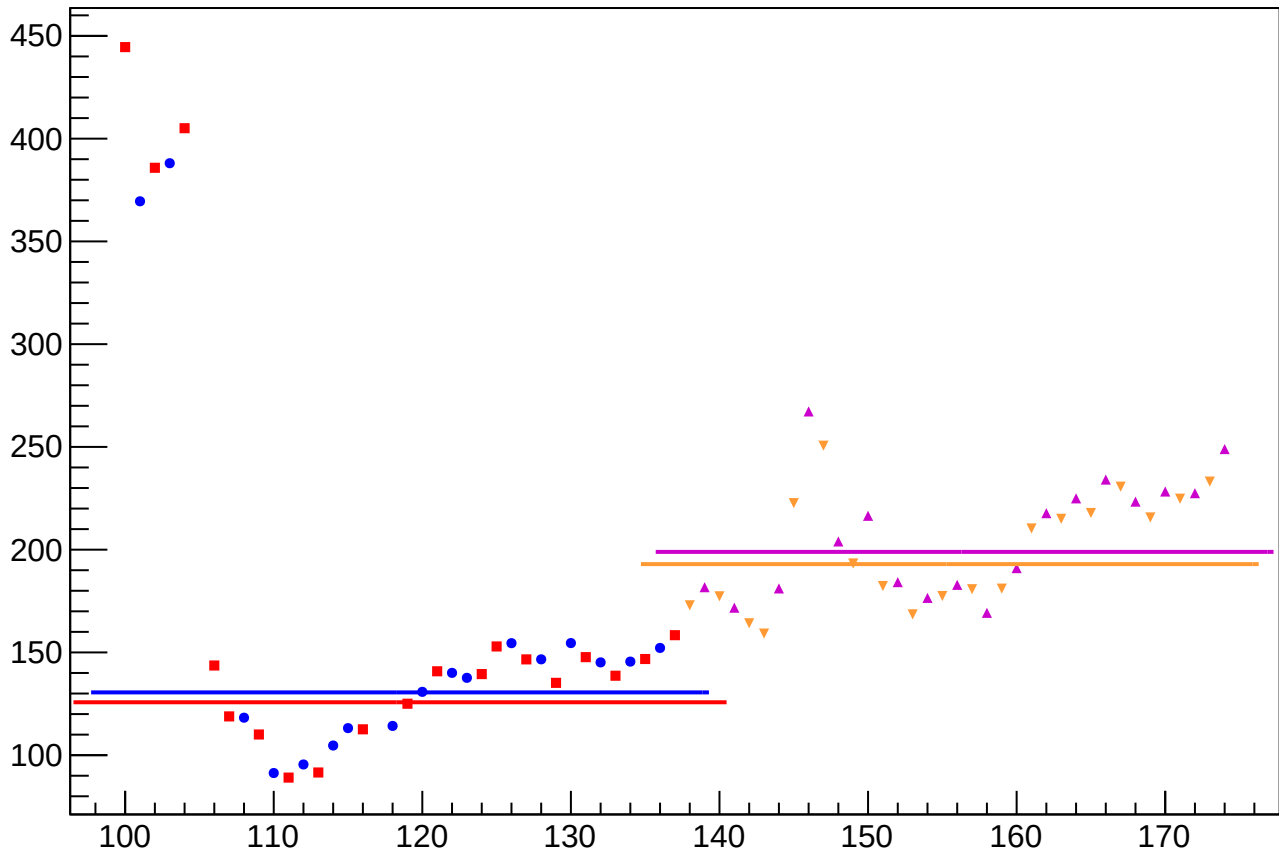
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/36

In: 137934.372 $\pm$ 0.038 χ^2 /NDF: 5555918591.8/36

Out: 137982.070 $\pm$ 0.037 χ^2 /NDF: 6153764409.1/36

All: 137959.420 $\pm$ 0.026 χ^2 /NDF: 117104927.0/72

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552+/-0.038 χ^2/NDF : 1373104.9/16

Left Out: 192.972+/-0.037 χ^2/NDF : 460171.4/18

Right Out: 125.746+/-0.036 χ^2/NDF : 1440002.5/18

Left In: 198.923+/-0.038 χ^2/NDF : 459446.3/17

Left: 195.830+/-0.027 χ^2/NDF : 932108.7/36

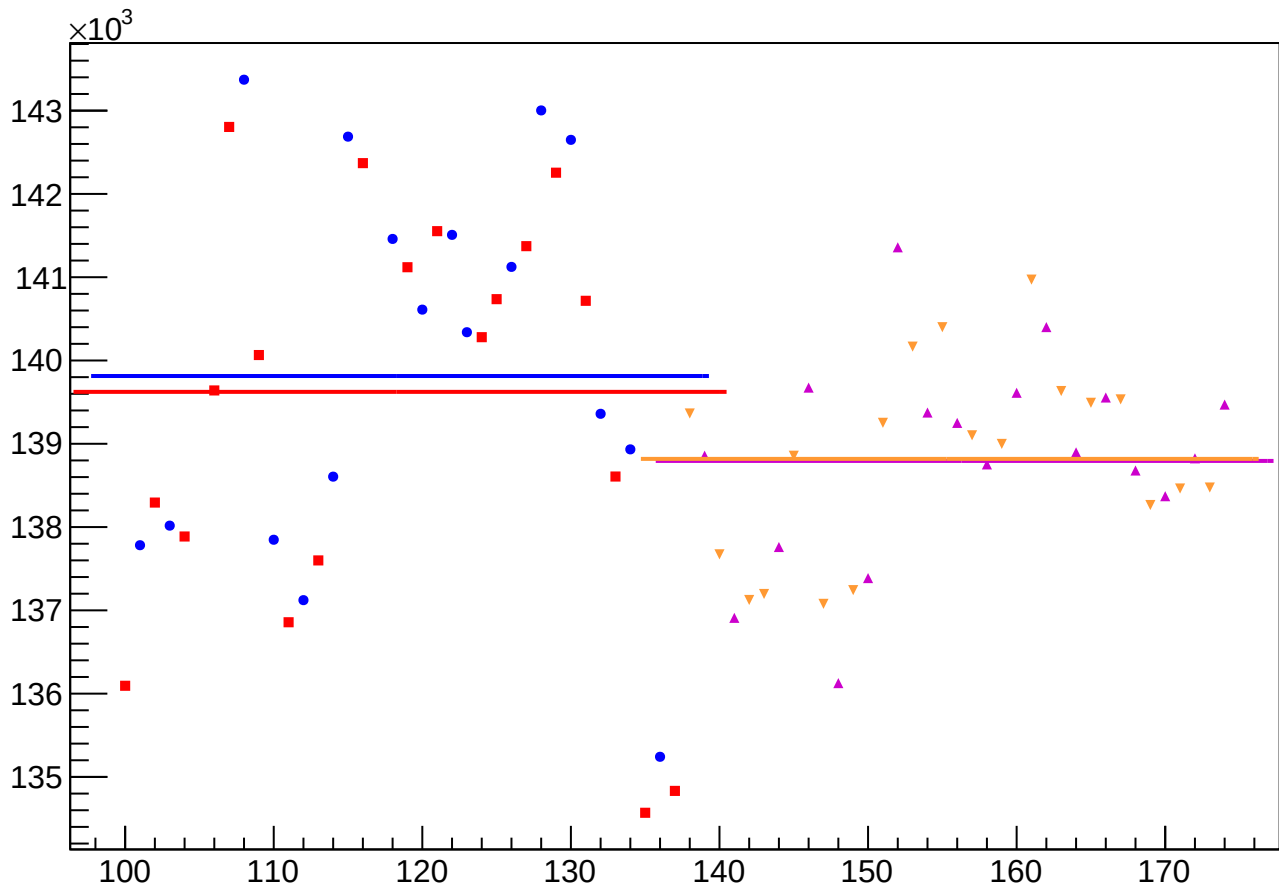
Right: 128.002+/-0.026 χ^2/NDF : 2821400.9/35

In: 164.779+/-0.027 χ^2/NDF : 3416649.6/34

Out: 158.678+/-0.026 χ^2/NDF : 3593119.7/37

All: 161.575+/-0.019 χ^2/NDF : 7036265.4/72

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062 χ^2 /NDF: 1689865533.6/16

Left Out: 138818.643 $\pm$ 0.053 χ^2 /NDF: 450472817.5/18

Right Out: 139623.387 $\pm$ 0.059 χ^2 /NDF: 1505731109.1/18

Left In: 138794.187 $\pm$ 0.055 χ^2 /NDF: 532588136.9/17

Left: 138806.674 $\pm$ 0.038 χ^2 /NDF: 983163403.2/36

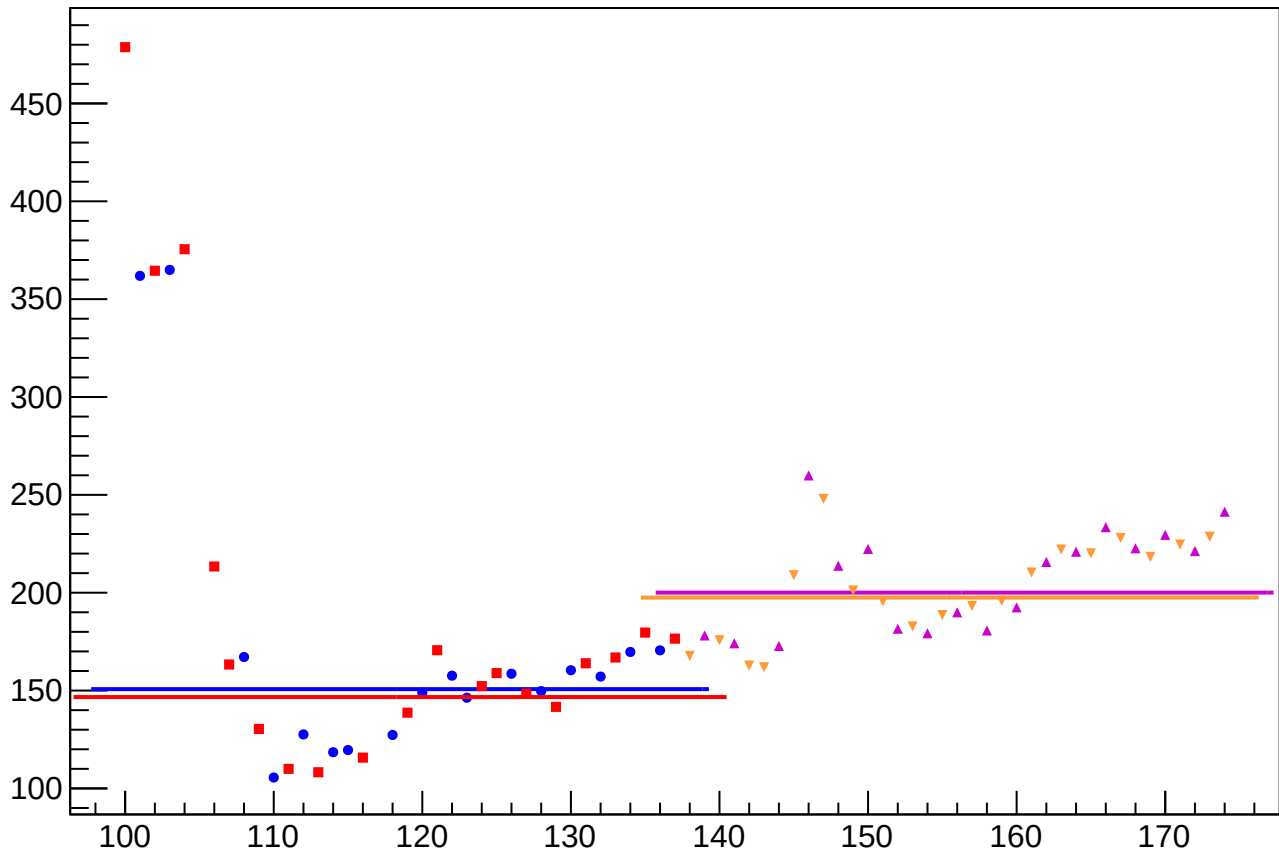
Right: 139713.961 $\pm$ 0.043 χ^2 /NDF: 3200544274.5/36

In: 139240.093 $\pm$ 0.041 χ^2 /NDF: 2374953488.9/34

Out: 139181.279 $\pm$ 0.040 χ^2 /NDF: 2058344135.0/34

All: 139209.712 $\pm$ 0.028 χ^2 /NDF: 443436303.2/68

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 197.515 $\pm$ 0.038 χ^2 /NDF:379655.6/18

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 200.059 $\pm$ 0.039 χ^2 /NDF:407238.8/17

Left: 198.760 $\pm$ 0.027 χ^2 /NDF: 789112.4/36

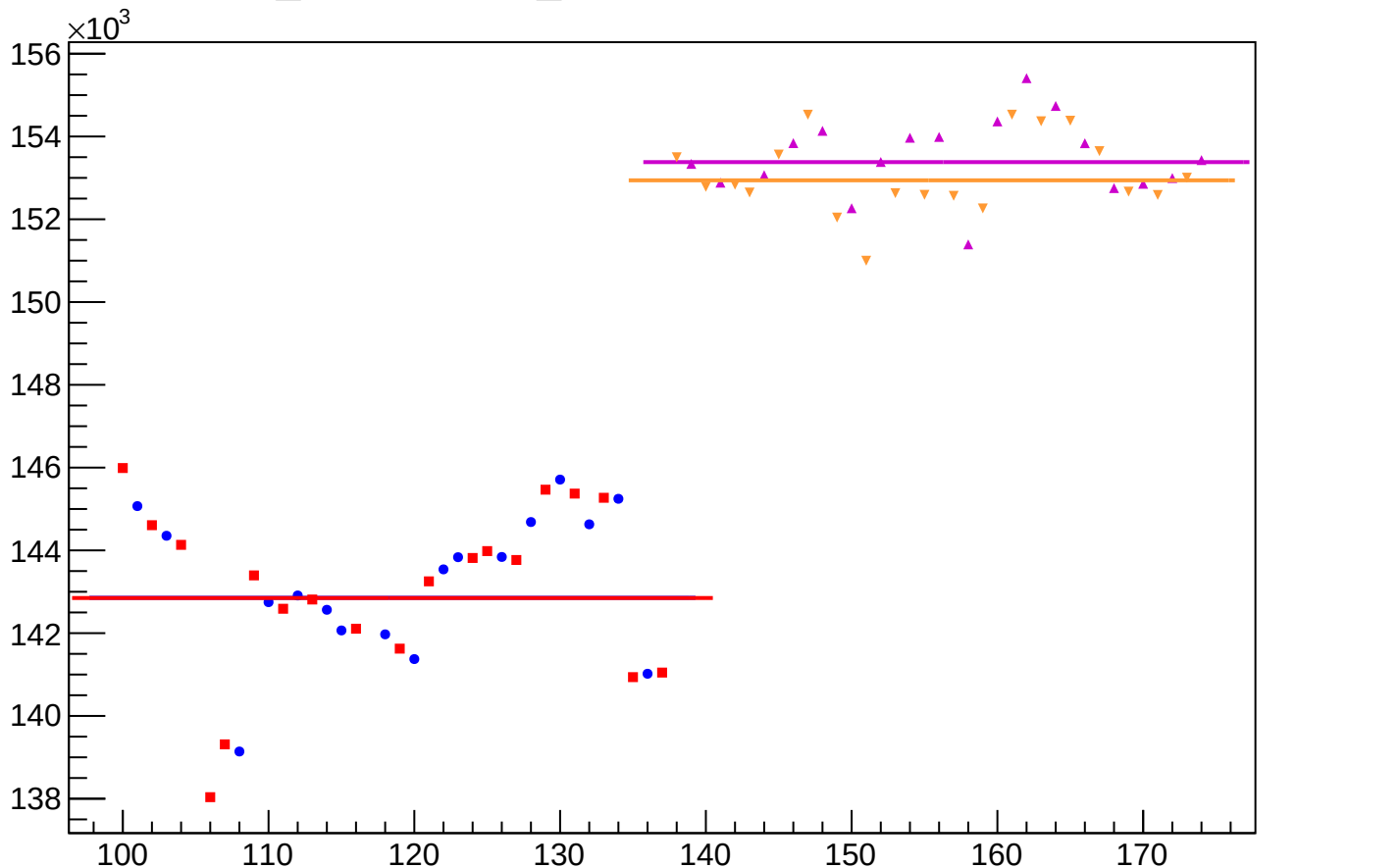
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 178.485 $\pm$ 0.029 χ^2 /NDF:2171312.5/34

Out: 174.610 $\pm$ 0.028 χ^2 /NDF:2397718.9/37

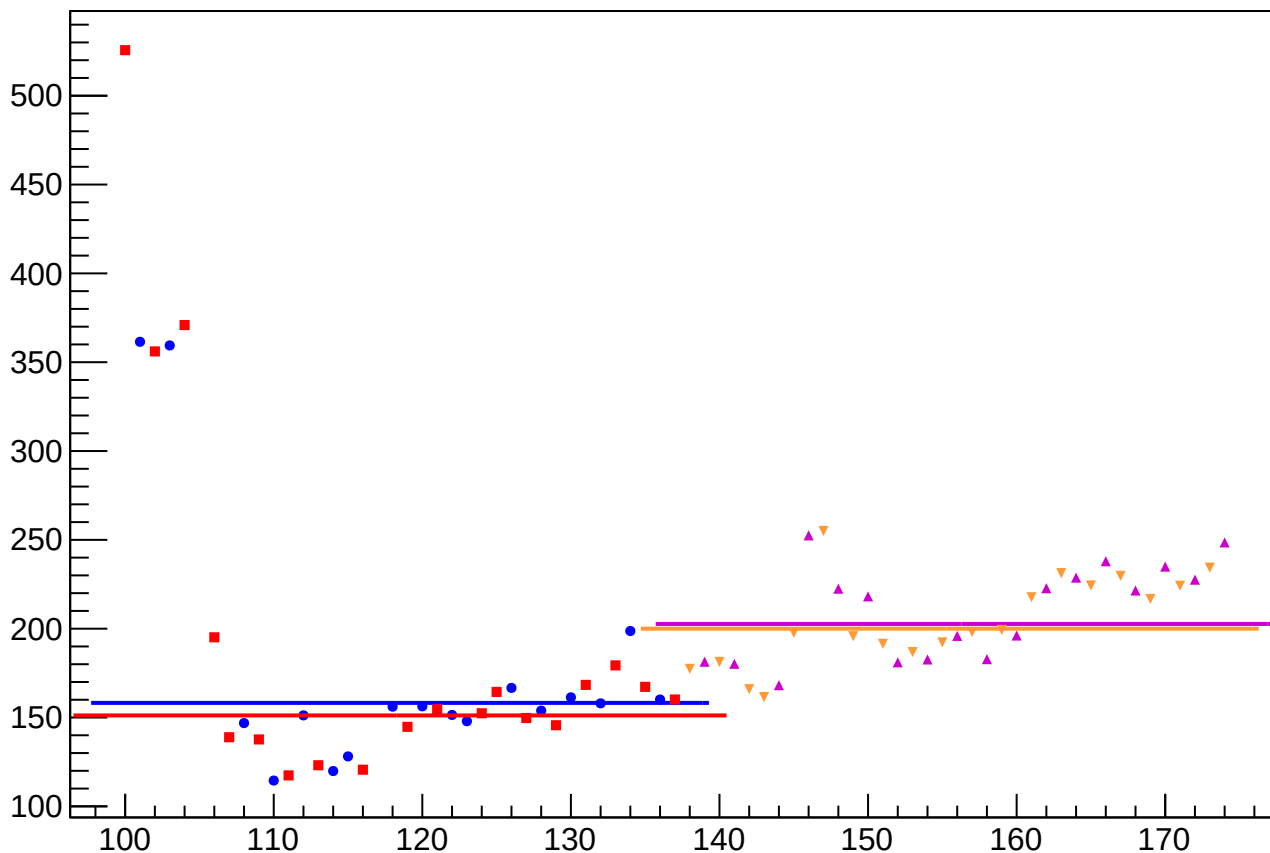
All: 176.483 $\pm$ 0.020 χ^2 /NDF: 4578278.8/72

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153155.939 $\pm$ 0.039	χ^2 /NDF: 567486365.8/36
Left Out: 152940.839 $\pm$ 0.054	χ^2 /NDF: 262659793.0/18	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/36
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 148937.188 $\pm$ 0.042	χ^2 /NDF: 16326993880.8/36
Left In: 153380.838 $\pm$ 0.055	χ^2 /NDF: 272429340.5/17	Out: 148452.993 $\pm$ 0.040	χ^2 /NDF: 16615449881.8/36
		All: 148684.879 $\pm$ 0.029	χ^2 /NDF: 330116579.0/36

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 200.001+/-0.038 χ^2/NDF : 369770.9/18

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 202.674+/-0.039 χ^2/NDF : 421928.2/17

Left: 201.308+/-0.027 χ^2/NDF : 794089.9/36

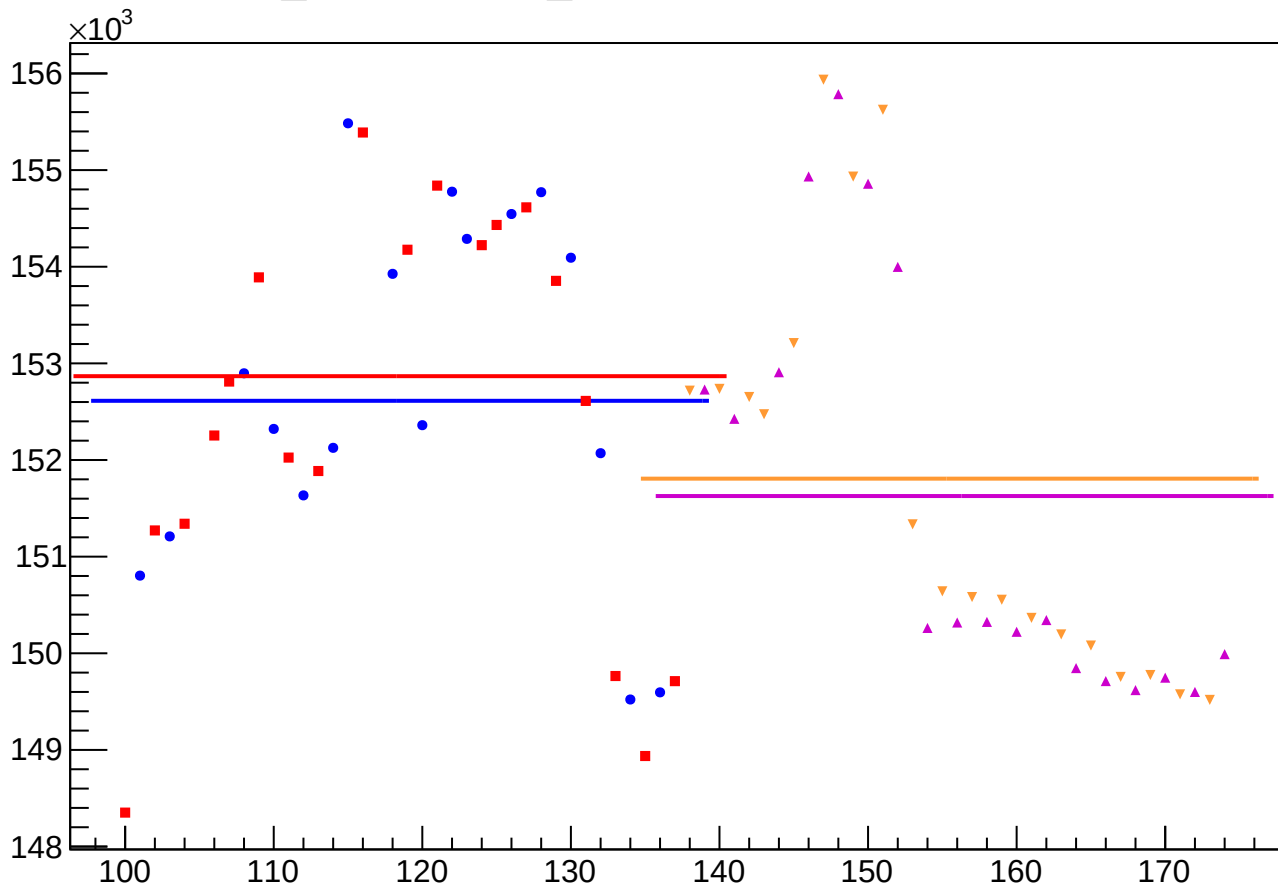
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 183.914+/-0.030 χ^2/NDF : 1851360.6/34

Out: 178.287+/-0.028 χ^2/NDF : 2098935.8/37

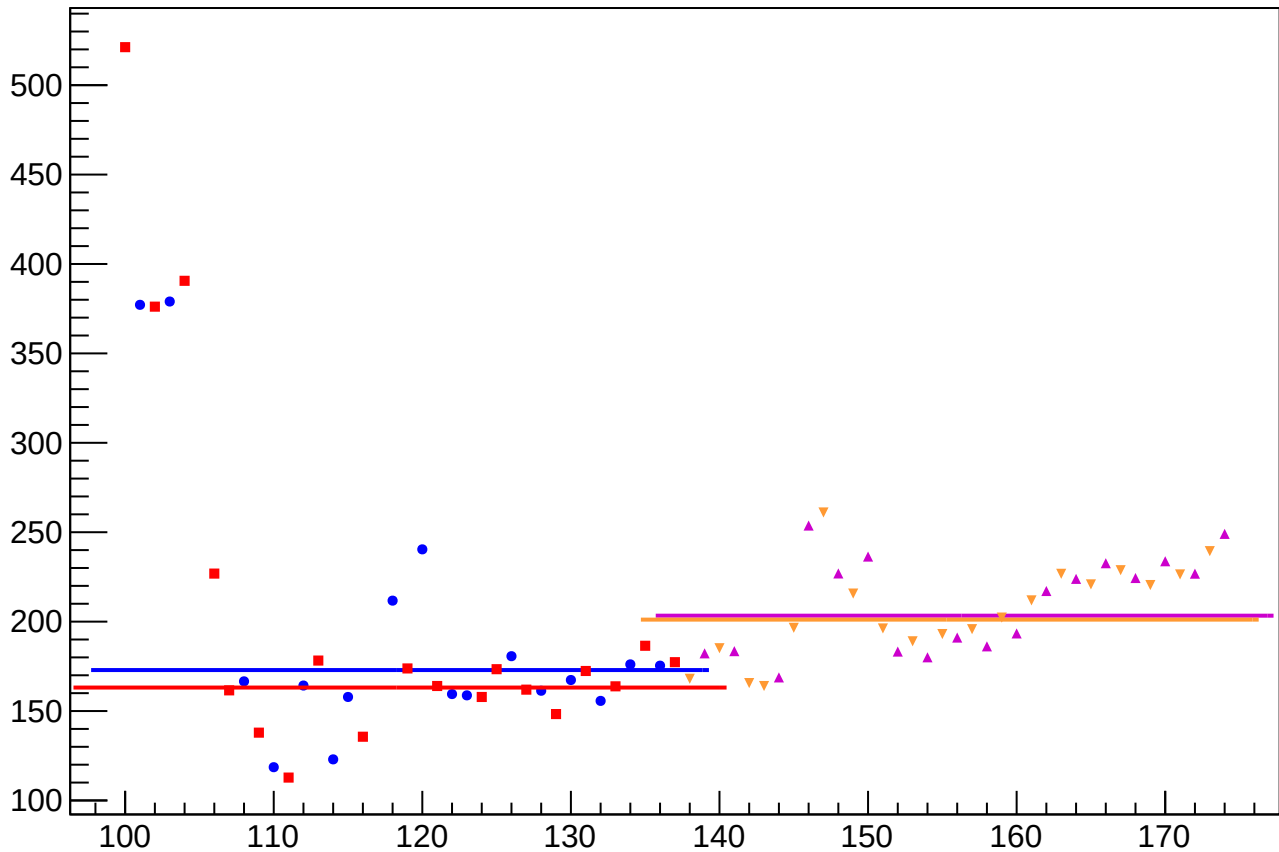
All: 180.982+/-0.021 χ^2/NDF : 3968989.6/72

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151719.007 $\pm$ 0.039	χ^2 /NDF: 2494904240.5/3
Left Out: 151807.095 $\pm$ 0.054	χ^2 /NDF: 1238851536.1/18	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/3
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 151991.964 $\pm$ 0.044	χ^2 /NDF: 1989503648.0/3
Left In: 151627.147 $\pm$ 0.055	χ^2 /NDF: 1250653054.3/17	Out: 152232.326 $\pm$ 0.042	χ^2 /NDF: 2111524779.7/3
		All: 152117.676 $\pm$ 0.030	χ^2 /NDF: 411670079.7/3

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 201.125+/-0.038 χ^2/NDF : 397022.2/18

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 203.328+/-0.039 χ^2/NDF : 431149.5/17

Left: 202.203+/-0.027 χ^2/NDF : 829790.1/36

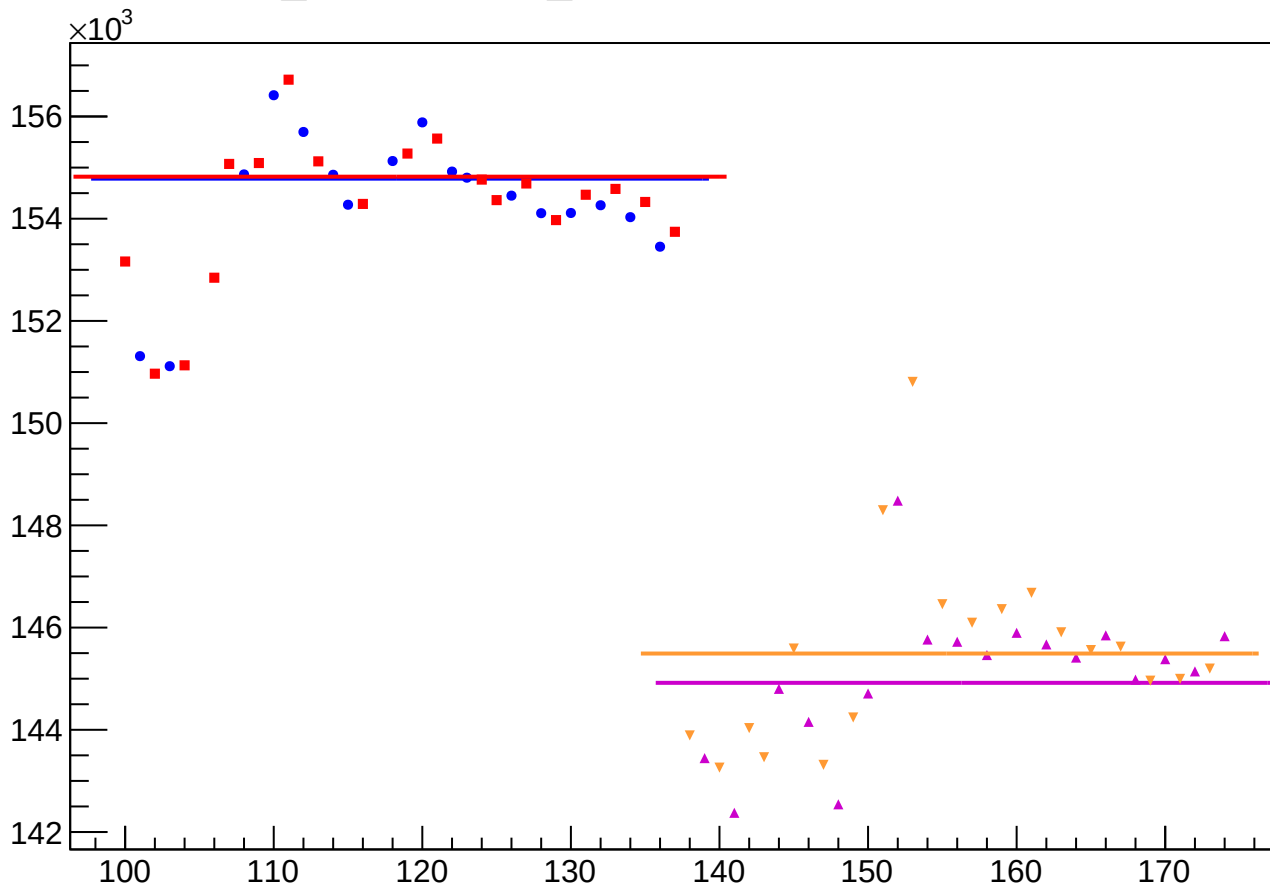
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 192.071+/-0.031 χ^2/NDF : 1596722.9/34

Out: 185.891+/-0.030 χ^2/NDF : 1825021.1/37

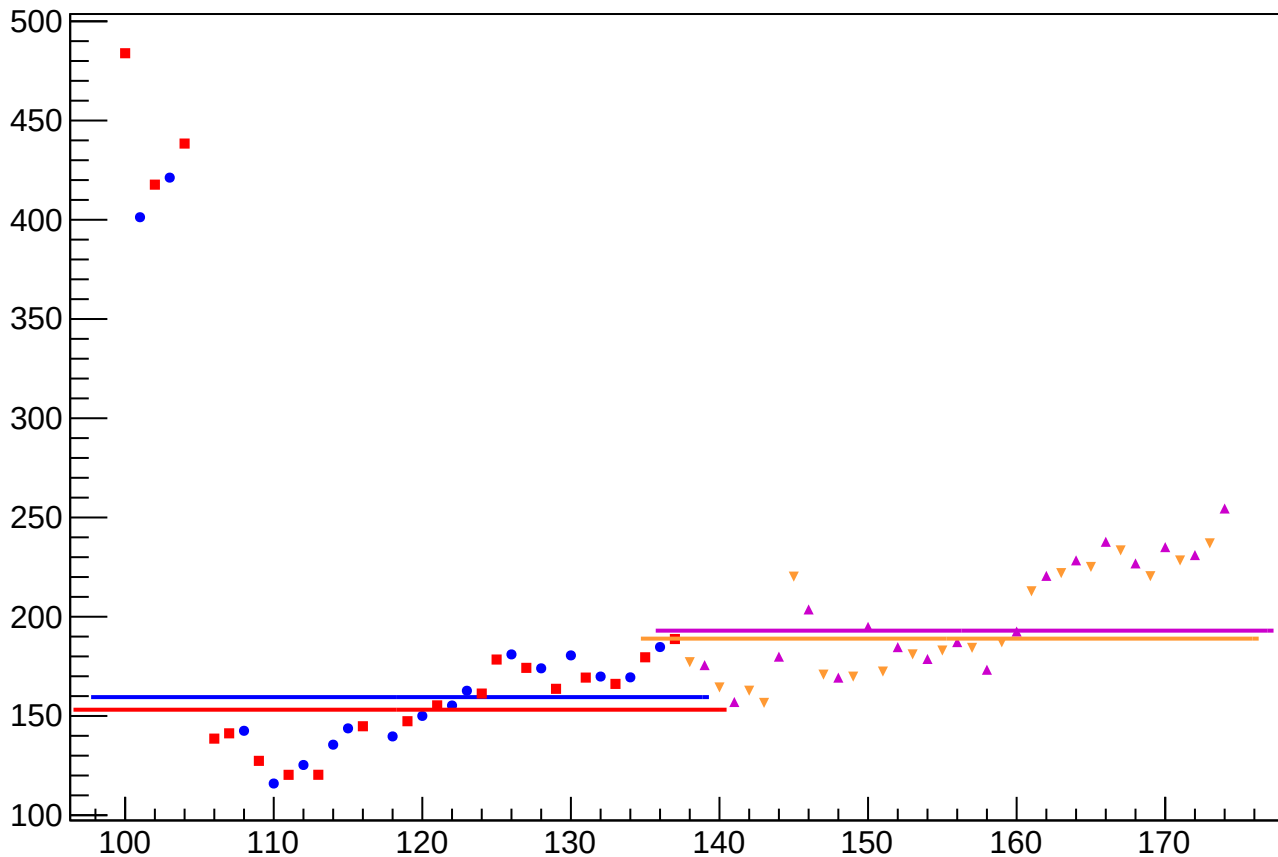
All: 188.839+/-0.021 χ^2/NDF : 3442462.8/72

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145214.209 $\pm$ 0.037	χ^2 /NDF: 2390697220.7/3
Left Out: 145492.224 $\pm$ 0.051	χ^2 /NDF: 1492354635.6/18	Right: 154804.381 $\pm$ 0.045	χ^2 /NDF: 559614489.4/3
Right Out: 154822.113 $\pm$ 0.061	χ^2 /NDF: 293850525.9/18	In: 148783.069 $\pm$ 0.041	χ^2 /NDF: 14956671193.9/3
Left In: 144918.895 $\pm$ 0.052	χ^2 /NDF: 836808431.9/17	Out: 149329.759 $\pm$ 0.039	χ^2 /NDF: 15608323050.5
		All: 149069.135 $\pm$ 0.028	χ^2 /NDF: 306584313

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2/NDF : 1131844.5/16

Left Out: 188.967 $\pm$ 0.036 χ^2/NDF :486296.3/18

Right Out: 153.153 $\pm$ 0.043 χ^2/NDF : 1173739.7/18

Left In: 192.987 $\pm$ 0.037 χ^2/NDF :484698.9/17

Left: 190.916 $\pm$ 0.026 χ^2/NDF : 977045.3/36

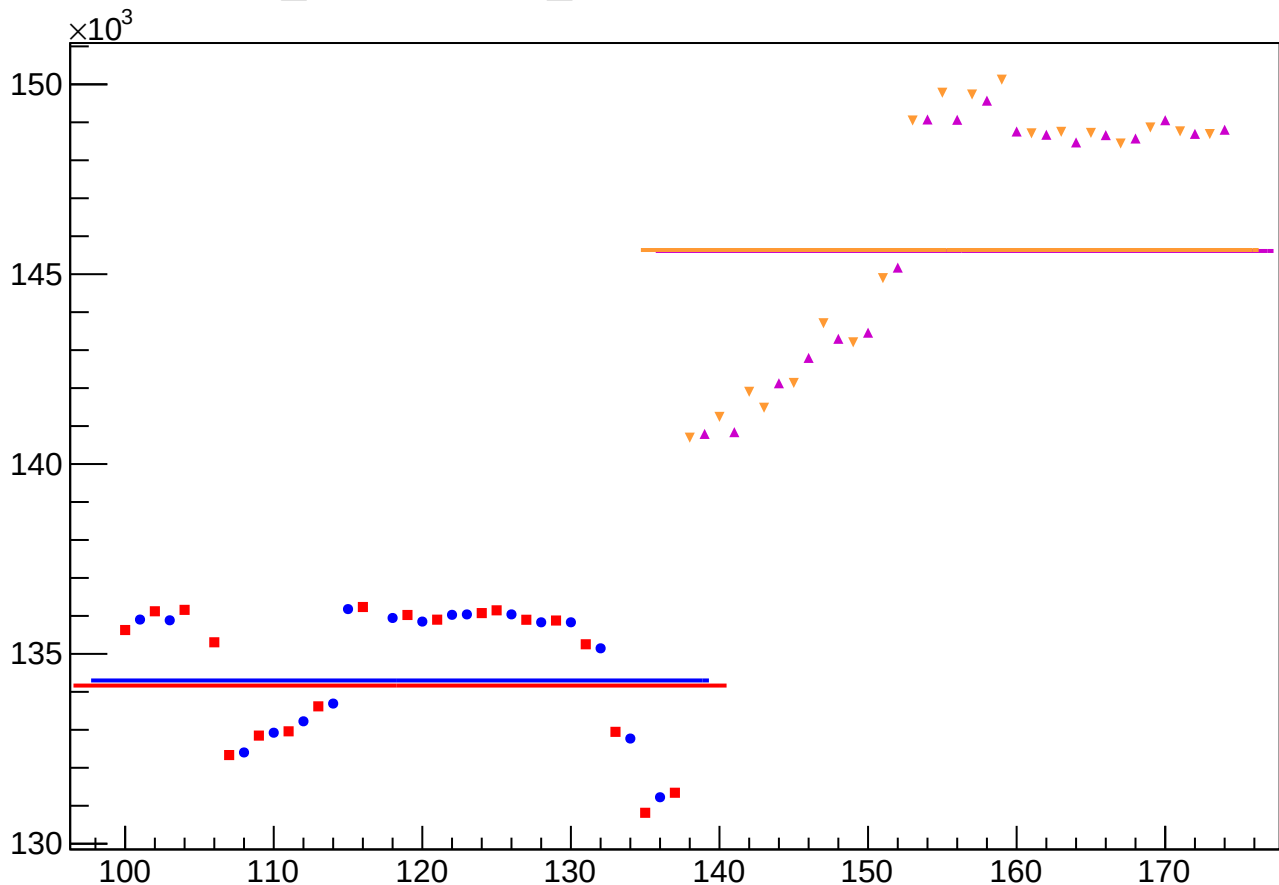
Right: 156.104 $\pm$ 0.032 χ^2/NDF : 2315690.5/35

In: 179.871 $\pm$ 0.029 χ^2/NDF :1935745.3/34

Out: 174.236 $\pm$ 0.028 χ^2/NDF :2067362.5/37

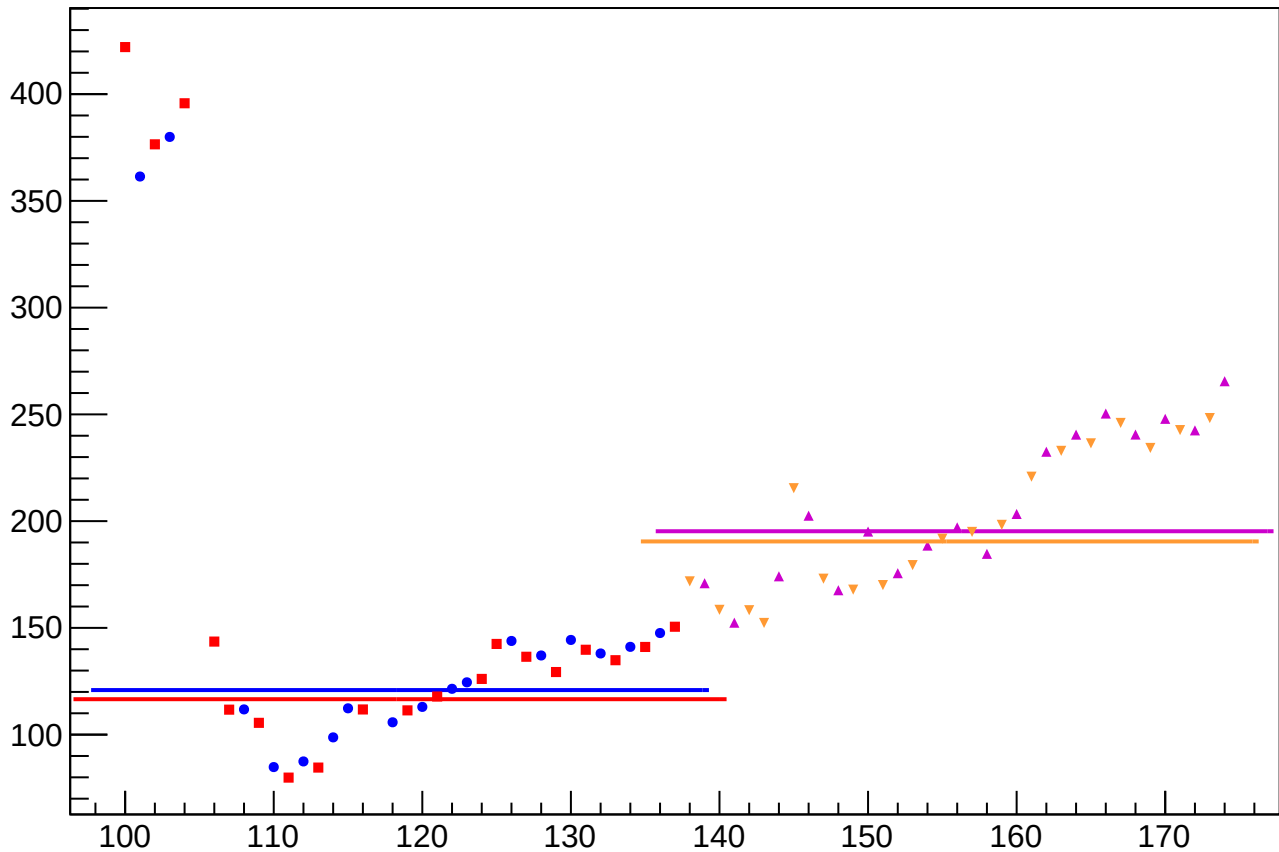
All: 176.923 $\pm$ 0.020 χ^2/NDF : 4022962.7/72

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145624.536 $\pm$ 0.037	χ^2 /NDF: 8640077053.6/3
Left Out: 145636.737 $\pm$ 0.052	χ^2 /NDF: 4658131832.4/18	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/1
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 139632.815 $\pm$ 0.037	χ^2 /NDF: 28933142740.5/3
Left In: 145611.478 $\pm$ 0.053	χ^2 /NDF: 3981829142.4/17	Out: 139422.828 $\pm$ 0.035	χ^2 /NDF: 32718582849.8
		All: 139522.778 $\pm$ 0.025	χ^2 /NDF: 616689753

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 190.489 $\pm$ 0.036 χ^2 /NDF: 703987.9/18

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 195.262 $\pm$ 0.038 χ^2 /NDF: 679957.4/17

Left: 192.795 $\pm$ 0.026 χ^2 /NDF: 1392234.2/36

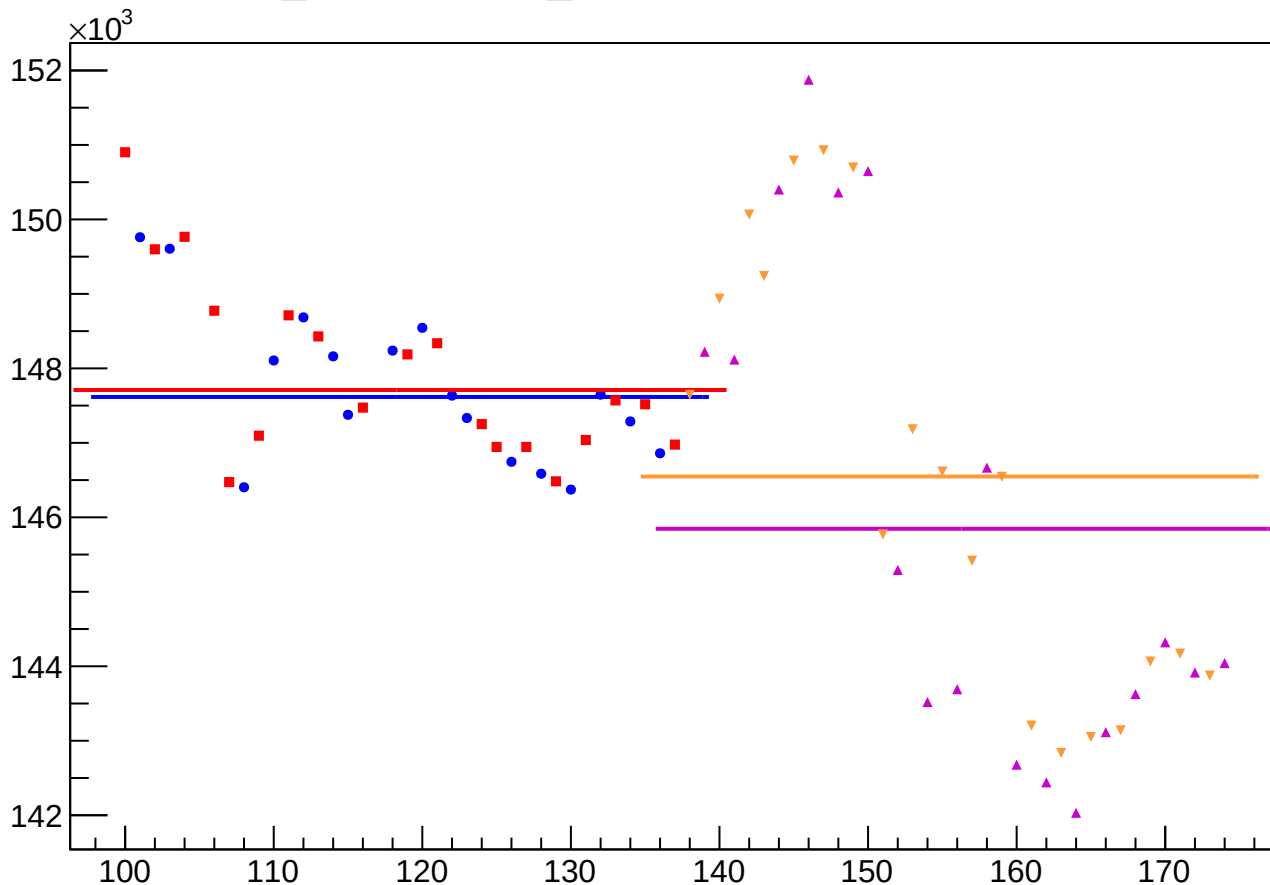
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 155.943 $\pm$ 0.026 χ^2 /NDF: 4202541.1/34

Out: 150.461 $\pm$ 0.025 χ^2 /NDF: 4473621.5/37

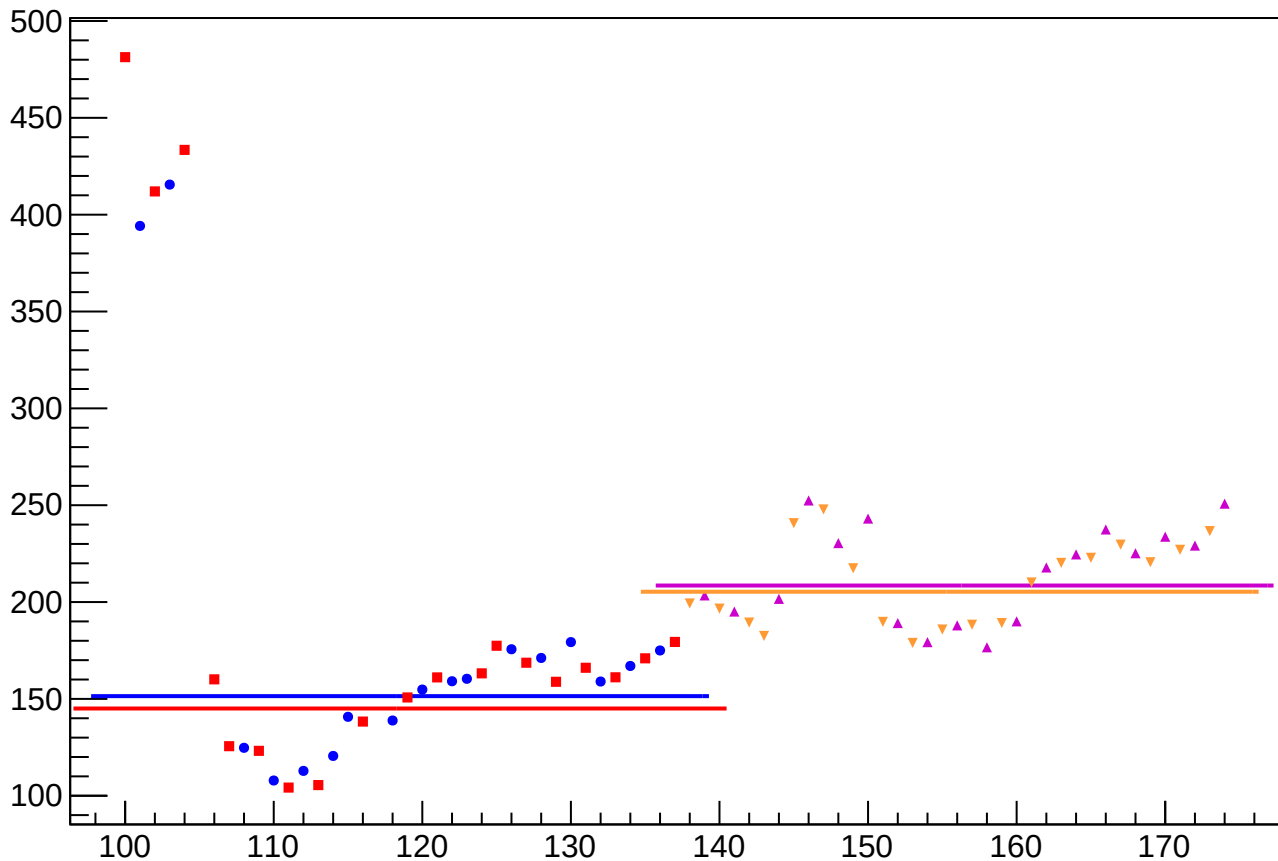
All: 153.070 $\pm$ 0.018 χ^2 /NDF: 8699683.0/72

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2 /NDF: 199263428.7/16	Left: 146206.234 $\pm$ 0.039	χ^2 /NDF: 5167728773.2/3
Left Out: 146548.070 $\pm$ 0.055	χ^2 /NDF: 2246269644.3/18	Right: 147666.153 $\pm$ 0.043	χ^2 /NDF: 404368550.3/3
Right Out: 147709.723 $\pm$ 0.058	χ^2 /NDF: 203906685.9/18	In: 146643.913 $\pm$ 0.042	χ^2 /NDF: 3482593555.5/3
Left In: 145846.456 $\pm$ 0.057	χ^2 /NDF: 2842633557.1/17	Out: 147096.514 $\pm$ 0.040	χ^2 /NDF: 2659568373.1/3
		All: 146880.513 $\pm$ 0.029	χ^2 /NDF: 62030302

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2/NDF : 1257843.0/16

Left Out: 205.326 $\pm$ 0.039 χ^2/NDF :280500.8/18

Right Out: 145.039 $\pm$ 0.041 χ^2/NDF : 1375972.0/18

Left In: 208.533 $\pm$ 0.040 χ^2/NDF :360689.2/17

Left: 206.889 $\pm$ 0.028 χ^2/NDF : 644484.8/36

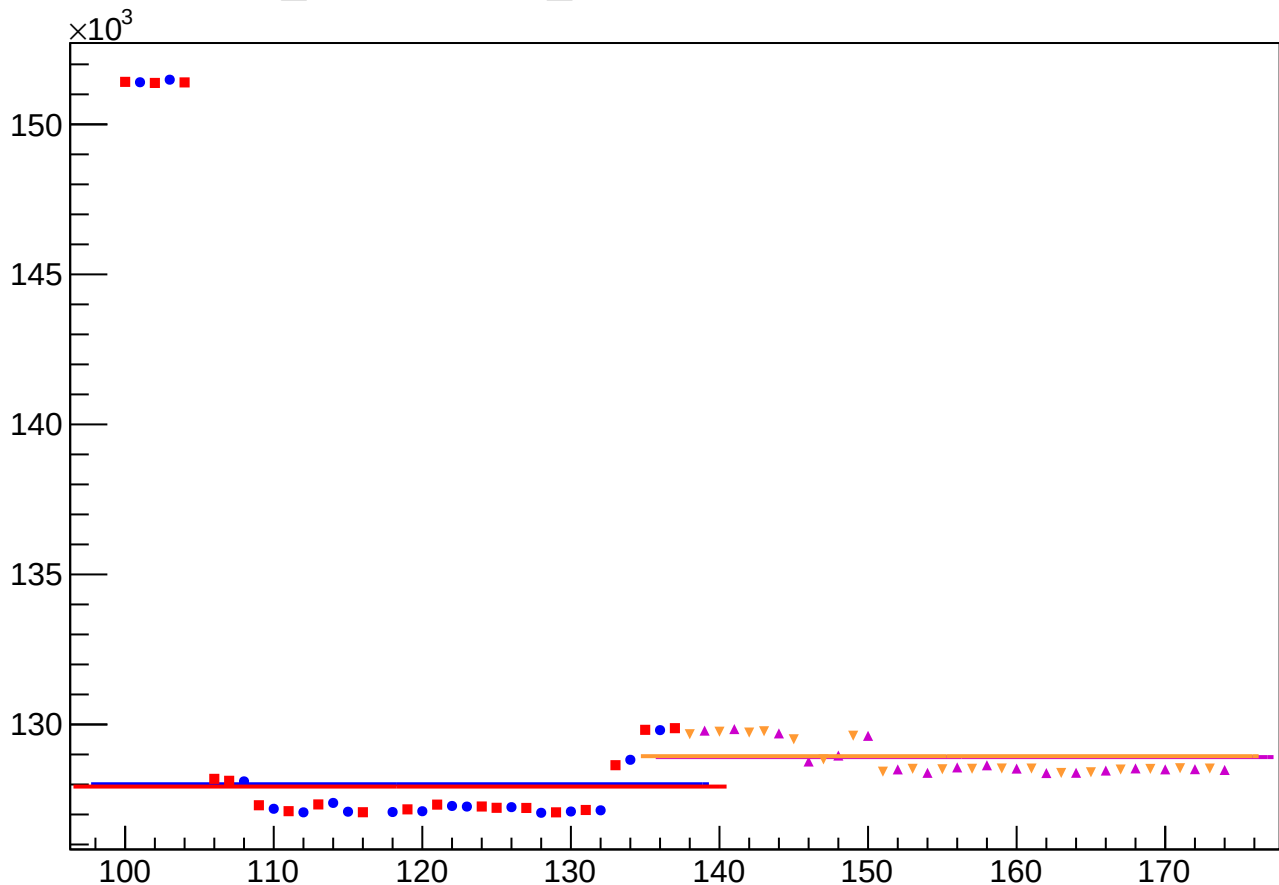
Right: 148.012 $\pm$ 0.030 χ^2/NDF : 2644973.7/35

In: 182.799 $\pm$ 0.030 χ^2/NDF :2536416.5/34

Out: 176.863 $\pm$ 0.028 χ^2/NDF :2784391.4/37

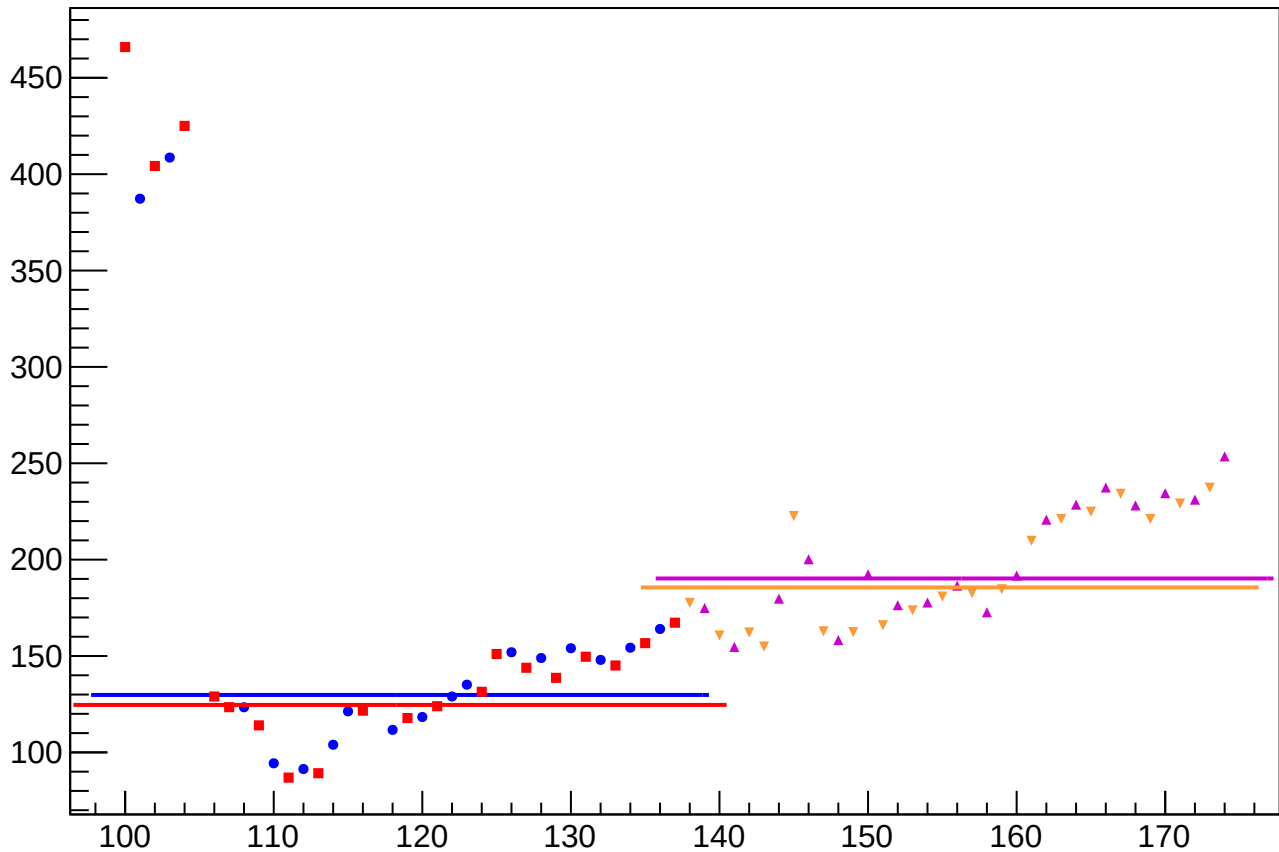
All: 179.696 $\pm$ 0.020 χ^2/NDF : 5341745.4/72

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128942.846 $\pm$ 0.050 χ^2 /NDF: 126463898.0/18
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128912.443 $\pm$ 0.052 χ^2 /NDF: 113895430.2/17
 Left: 128928.171 $\pm$ 0.036 χ^2 /NDF: 240537645.7/36
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/36
 In: 128479.892 $\pm$ 0.037 χ^2 /NDF: 4579676780.5/36
 Out: 128440.134 $\pm$ 0.035 χ^2 /NDF: 4098117249.3/36
 All: 128458.967 $\pm$ 0.026 χ^2 /NDF: 867838829.0/72

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 ± 0.038 $\chi^2/\text{NDF}: 1485294.2/16$

Left Out: 185.581 ± 0.035 $\chi^2/\text{NDF}: 575145.5/18$

Right Out: 124.625 ± 0.036 $\chi^2/\text{NDF}: 1531827.4/18$

Left In: 190.232 ± 0.037 $\chi^2/\text{NDF}: 552793.3/17$

Left: 187.826 ± 0.025 $\chi^2/\text{NDF}: 1136286.0/36$

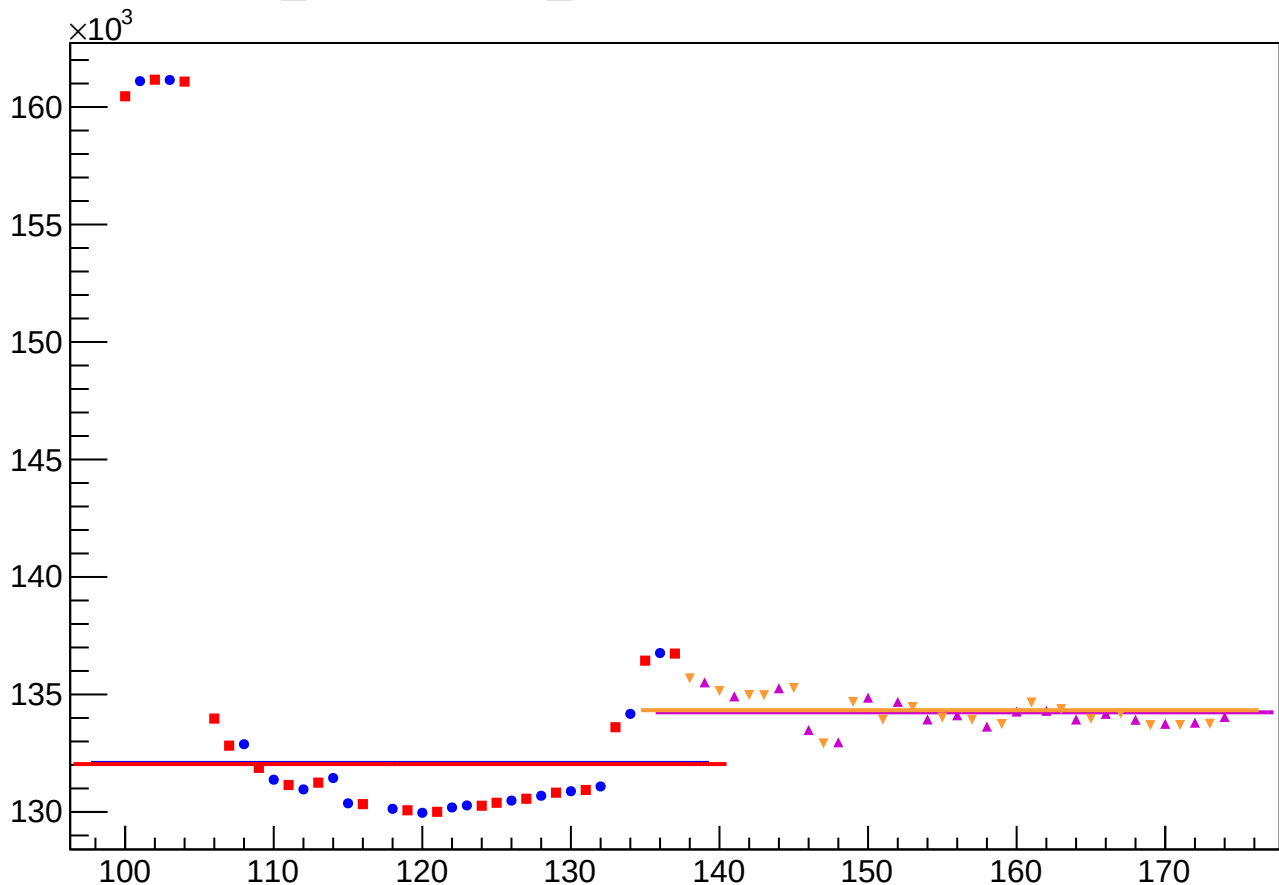
Right: 127.025 ± 0.026 $\chi^2/\text{NDF}: 3026904.3/35$

In: 161.349 ± 0.026 $\chi^2/\text{NDF}: 3340014.7/34$

Out: 155.322 ± 0.025 $\chi^2/\text{NDF}: 3581356.0/37$

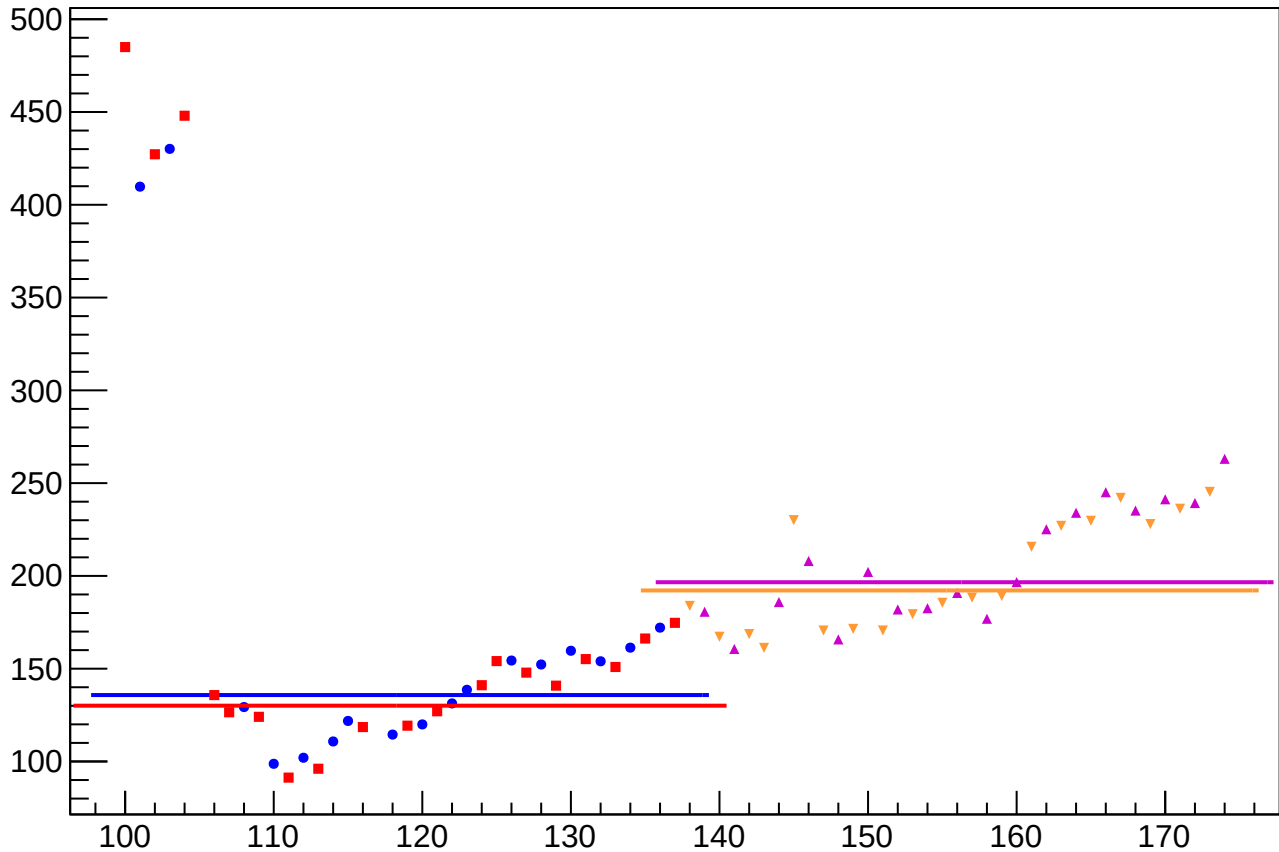
All: 158.177 ± 0.018 $\chi^2/\text{NDF}: 6948681.0/72$

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057	χ^2 /NDF: 6733230928.7/16	Left: 134286.593 $\pm$ 0.037	χ^2 /NDF: 348633975.8/30
Left Out: 134330.414 $\pm$ 0.052	χ^2 /NDF: 181267888.5/18	Right: 132060.364 $\pm$ 0.038	χ^2 /NDF: 12615754245.0/16
Right Out: 132037.539 $\pm$ 0.053	χ^2 /NDF: 5882115872.9/18	In: 133222.311 $\pm$ 0.039	χ^2 /NDF: 7664276958.9/30
Left In: 134239.791 $\pm$ 0.054	χ^2 /NDF: 165884645.3/17	Out: 133200.581 $\pm$ 0.037	χ^2 /NDF: 7029807526.4/30
		All: 133210.877 $\pm$ 0.027	χ^2 /NDF: 146942490.0/16

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 +/- 0.040 χ^2/NDF : 1441904.9/16

Left Out: 192.166 +/- 0.037 χ^2/NDF : 541964.1/18

Right Out: 130.070 +/- 0.037 χ^2/NDF : 1503997.6/18

Left In: 196.597 +/- 0.038 χ^2/NDF : 538264.6/17

Left: 194.309 +/- 0.026 χ^2/NDF : 1087311.8/36

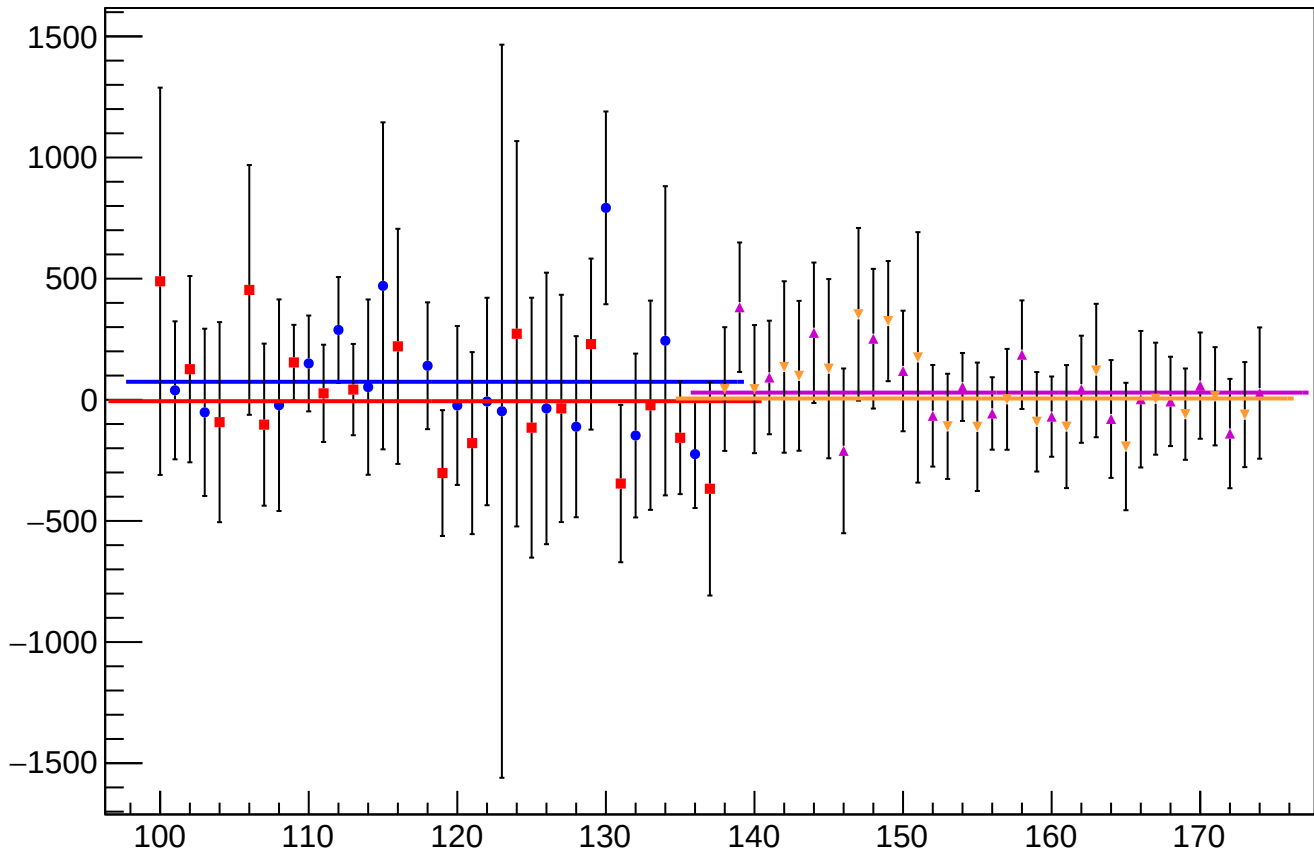
Right: 132.723 +/- 0.027 χ^2/NDF : 2956918.0/35

In: 167.863 +/- 0.027 χ^2/NDF : 3200605.3/34

Out: 161.568 +/- 0.026 χ^2/NDF : 3463626.0/37

All: 164.551 +/- 0.019 χ^2/NDF : 6691856.4/72

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2 /NDF: 7.7/16

Left Out: 5.362 $\pm$ 57.629 χ^2 /NDF: 5.0/18

Right Out: -5.739 $\pm$ 70.069 χ^2 /NDF: 7.1/18

Left In: 29.654 $\pm$ 50.702 χ^2 /NDF: 6.0/17

Left: 19.055 $\pm$ 38.066 χ^2 /NDF: 11.1/36

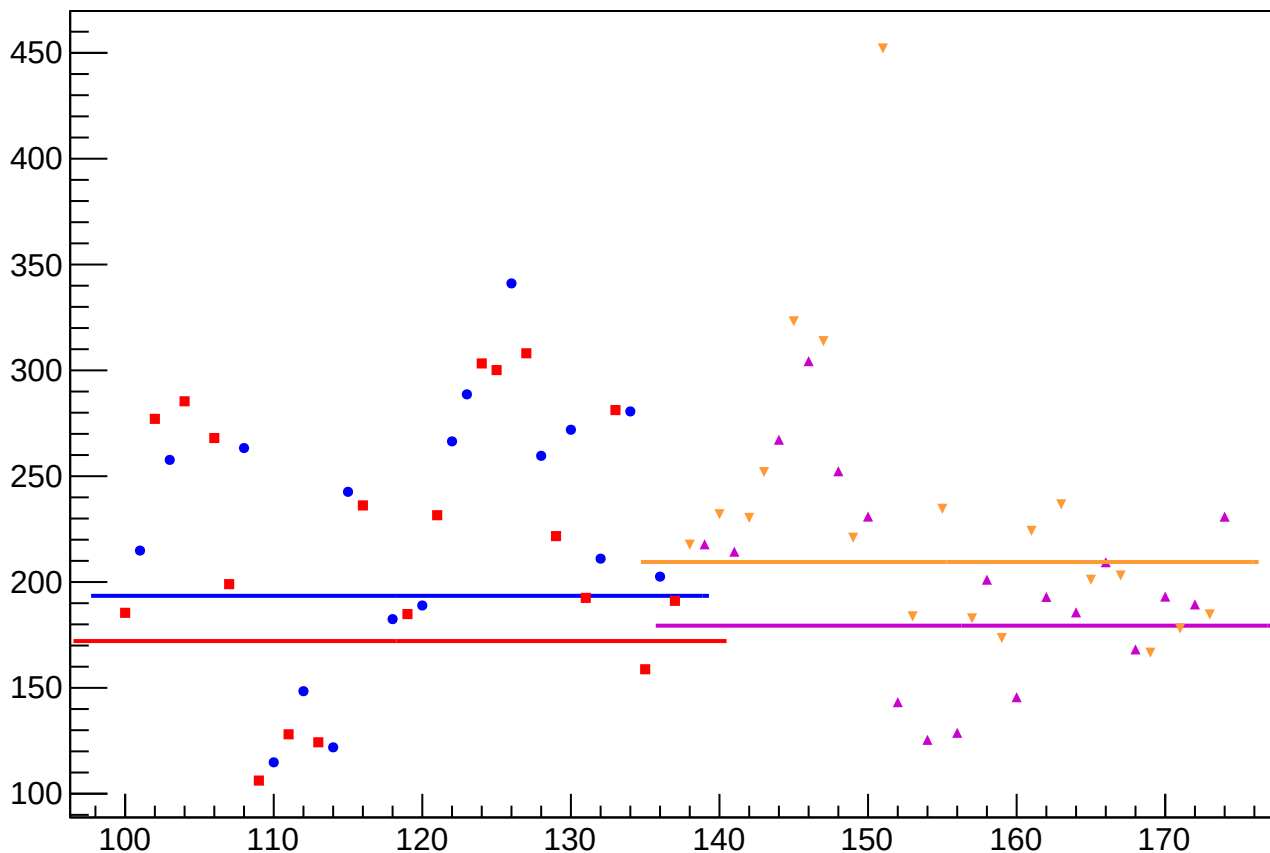
Right: 29.490 $\pm$ 52.426 χ^2 /NDF: 15.4/35

In: 42.673 $\pm$ 42.673 χ^2 /NDF: 13.9/34

Out: 0.883 $\pm$ 44.509 χ^2 /NDF: 12.1/37

All: 22.658 $\pm$ 30.803 χ^2 /NDF: 26.5/72

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2/NDF : 1017195.7/16

Left Out: 209.486 $\pm$ 0.041 χ^2/NDF :1213649.3/18

Right Out: 172.122 $\pm$ 0.050 χ^2/NDF : 1579840.2/18

Left In: 179.387 $\pm$ 0.036 χ^2/NDF :1563030.5/17

Left: 192.520 $\pm$ 0.027 χ^2/NDF : 3084204.3/36

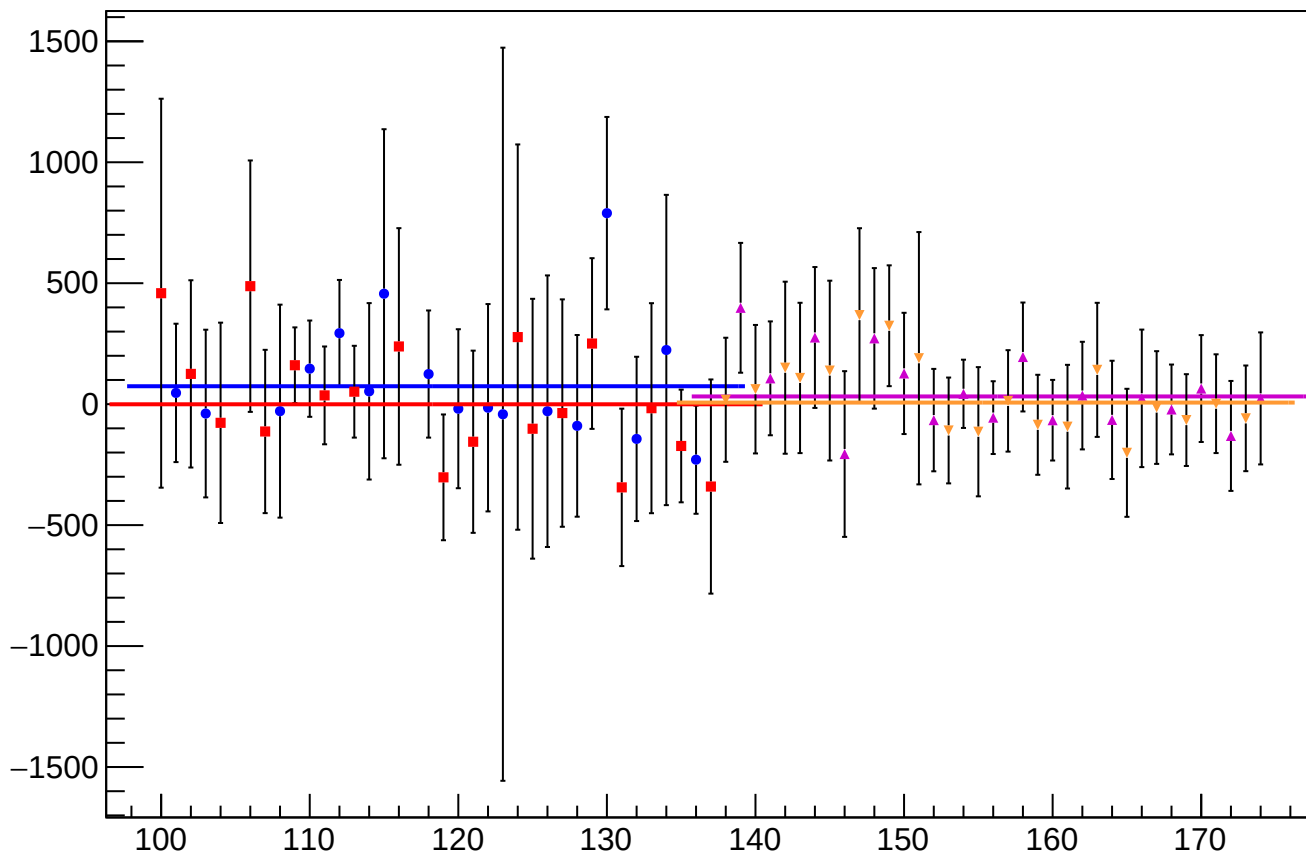
Right: 181.527 $\pm$ 0.037 χ^2/NDF : 2678891.2/35

In: 183.500 $\pm$ 0.030 χ^2/NDF :2625340.1/34

Out: 194.410 $\pm$ 0.031 χ^2/NDF :3132715.2/37

All: 188.725 $\pm$ 0.022 χ^2/NDF : 5820671.2/72

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2/NDF : 7.6/16

Left Out: 6.554 $\pm$ 58.009 χ^2/NDF : 5.1/18

Right Out: -0.503 $\pm$ 70.437 χ^2/NDF : 7.3/18

Left In: 31.927 $\pm$ 51.023 χ^2/NDF : 6.2/17

Left: 20.860 $\pm$ 38.312 χ^2/NDF : 11.4/36

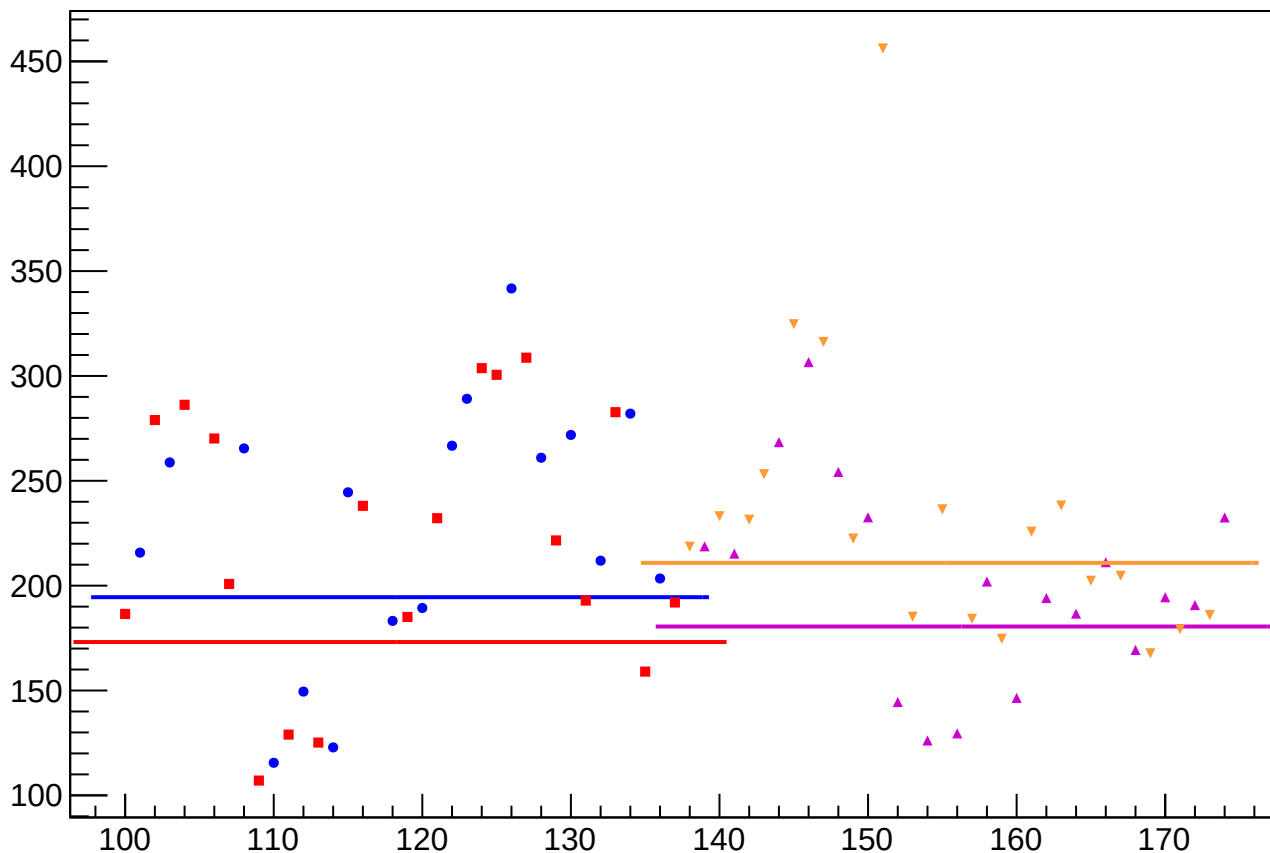
Right: 32.349 $\pm$ 52.693 χ^2/NDF : 15.4/35

In: 44.251 $\pm$ 42.925 χ^2/NDF : 13.9/34

Out: 3.702 $\pm$ 44.778 χ^2/NDF : 12.4/37

All: 24.833 $\pm$ 30.987 χ^2/NDF : 26.8/72

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2/NDF : 1008514.7/16

Left Out: 210.864 $\pm$ 0.041 χ^2/NDF : 1212319.9/18

Right Out: 173.111 $\pm$ 0.050 χ^2/NDF : 1567374.3/18

Left In: 180.518 $\pm$ 0.036 χ^2/NDF : 1562315.9/17

Left: 193.755 $\pm$ 0.027 χ^2/NDF : 3083223.4/36

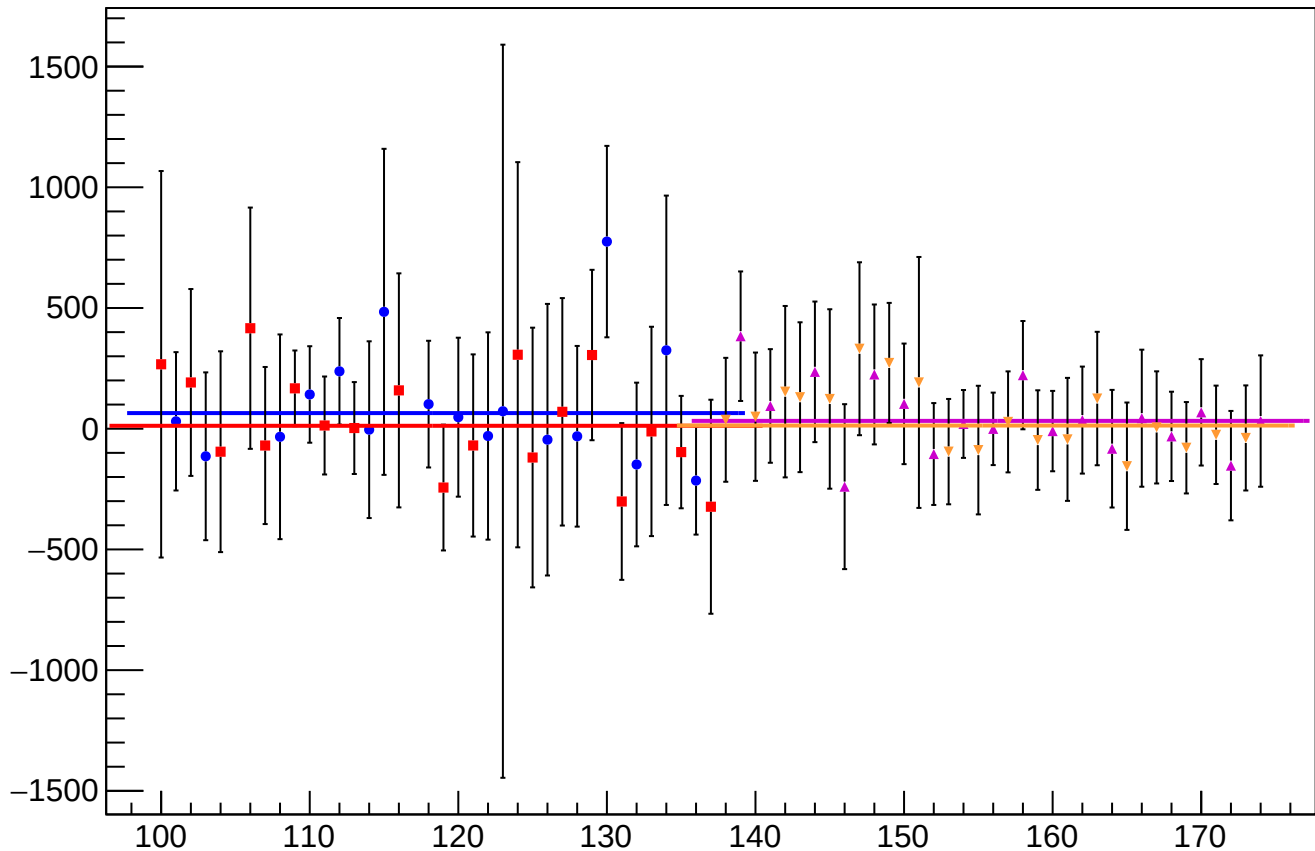
Right: 182.529 $\pm$ 0.037 χ^2/NDF : 2657073.5/35

In: 184.603 $\pm$ 0.030 χ^2/NDF : 2614697.3/34

Out: 195.607 $\pm$ 0.032 χ^2/NDF : 3122050.7/37

All: 189.873 $\pm$ 0.022 χ^2/NDF : 5799684.2/72

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 $\pm$ 79.399 χ^2 /NDF: 7.0/16

Left Out: 13.182 $\pm$ 57.872 χ^2 /NDF:3.8/18

Right Out: 12.094 $\pm$ 70.361 χ^2 /NDF: 5.8/18

Left In: 32.492 $\pm$ 50.889 χ^2 /NDF:5.7/17

Left: 24.072 $\pm$ 38.216 χ^2 /NDF: 9.6/36

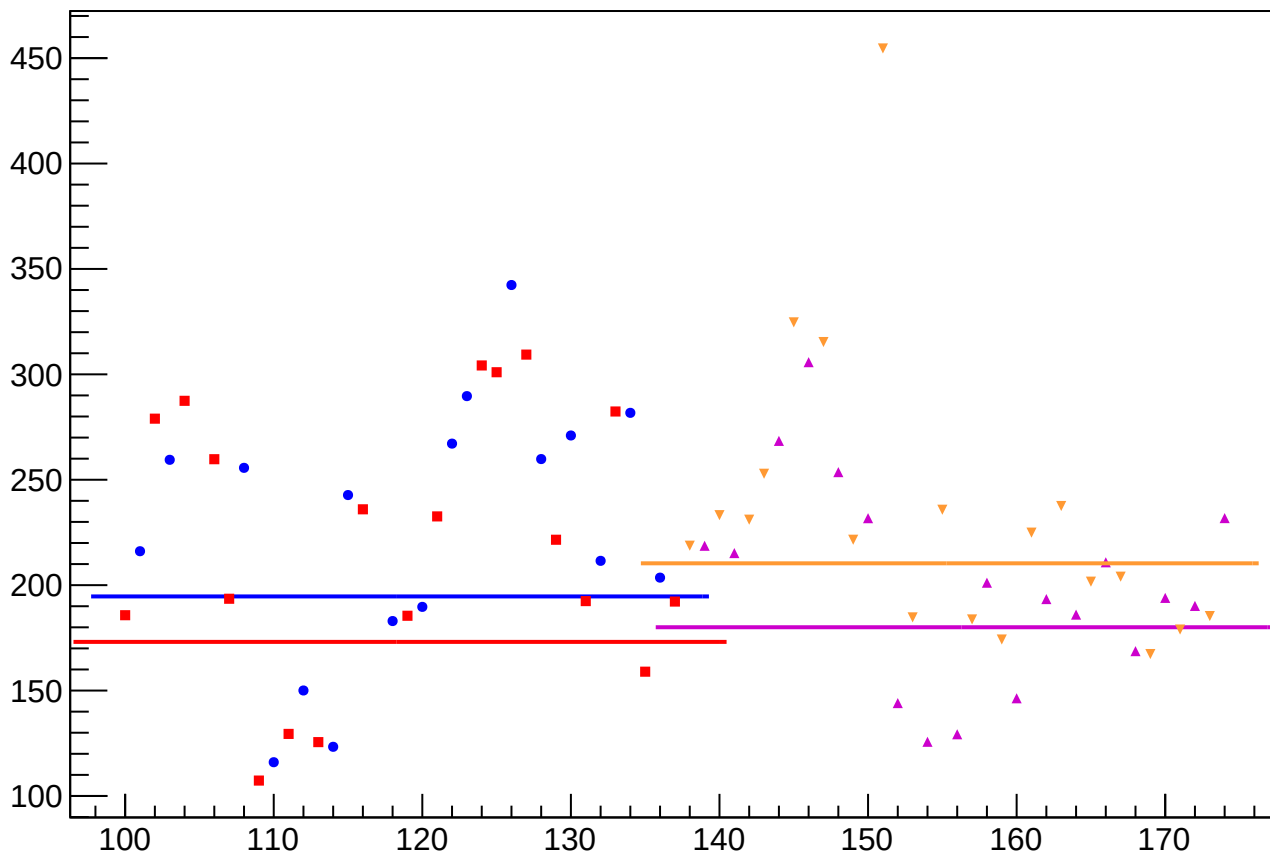
Right: 35.248 $\pm$ 52.659 χ^2 /NDF: 13.1/35

In: 41.880 $\pm$ 42.844 χ^2 /NDF:12.9/34

Out: 12.743 $\pm$ 44.696 χ^2 /NDF:9.7/37

All: 27.927 $\pm$ 30.929 χ^2 /NDF: 22.7/72

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 210.360+/-0.041 χ^2/NDF : 1214525.0/18

Right Out: 173.089+/-0.050 χ^2/NDF : 1544540.9/18

Left In: 180.035+/-0.036 χ^2/NDF : 1565721.1/17

Left: 193.258+/-0.027 χ^2/NDF : 3089927.8/36

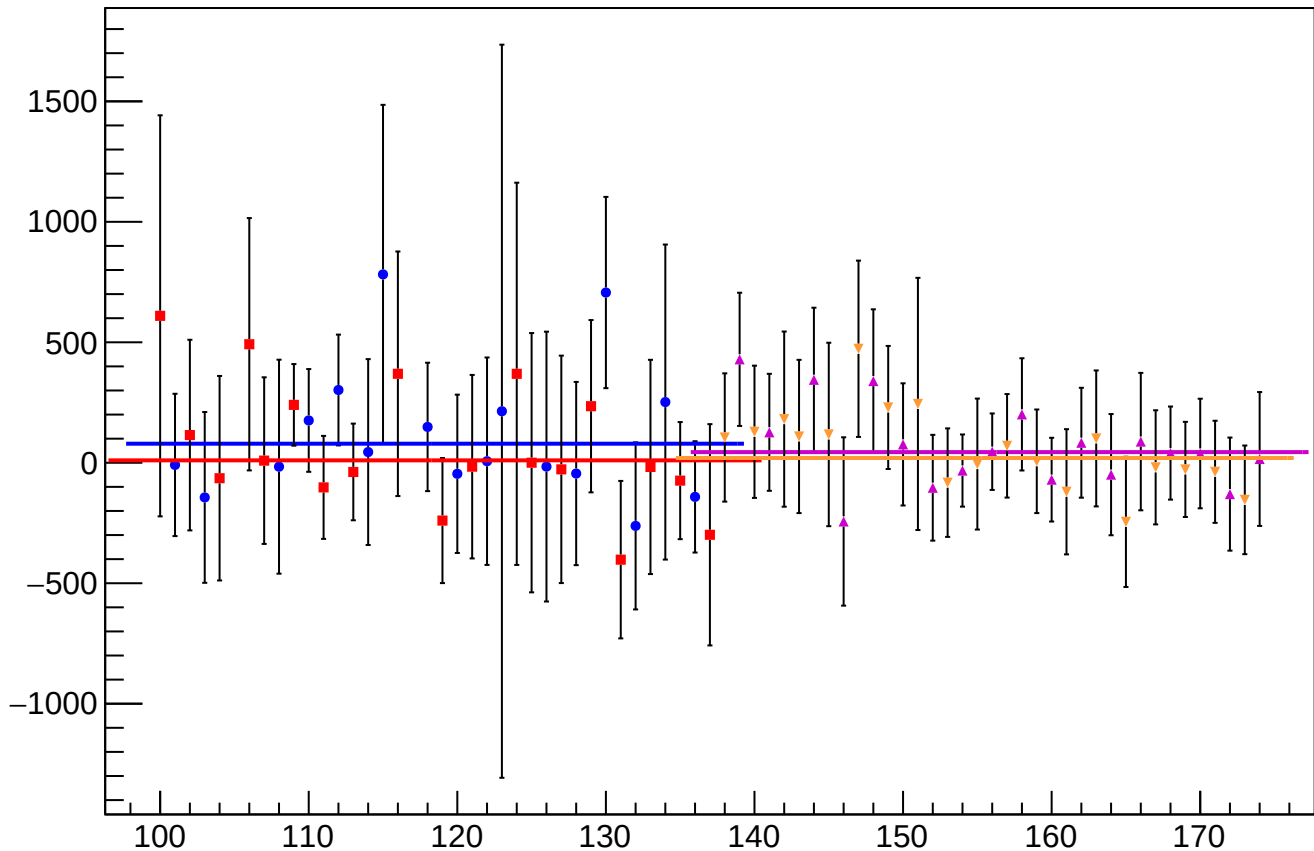
Right: 182.574+/-0.037 χ^2/NDF : 2613964.4/35

In: 184.291+/-0.030 χ^2/NDF : 2600564.7/34

Out: 195.320+/-0.032 χ^2/NDF : 3093798.7/37

All: 189.572+/-0.022 χ^2/NDF : 5757825.2/72

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 19.806 $\pm$ 59.632 χ^2 /NDF: 5.4/18

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 44.208 $\pm$ 52.891 χ^2 /NDF: 7.1/17

Left: 33.463 $\pm$ 39.569 χ^2 /NDF: 12.5/36

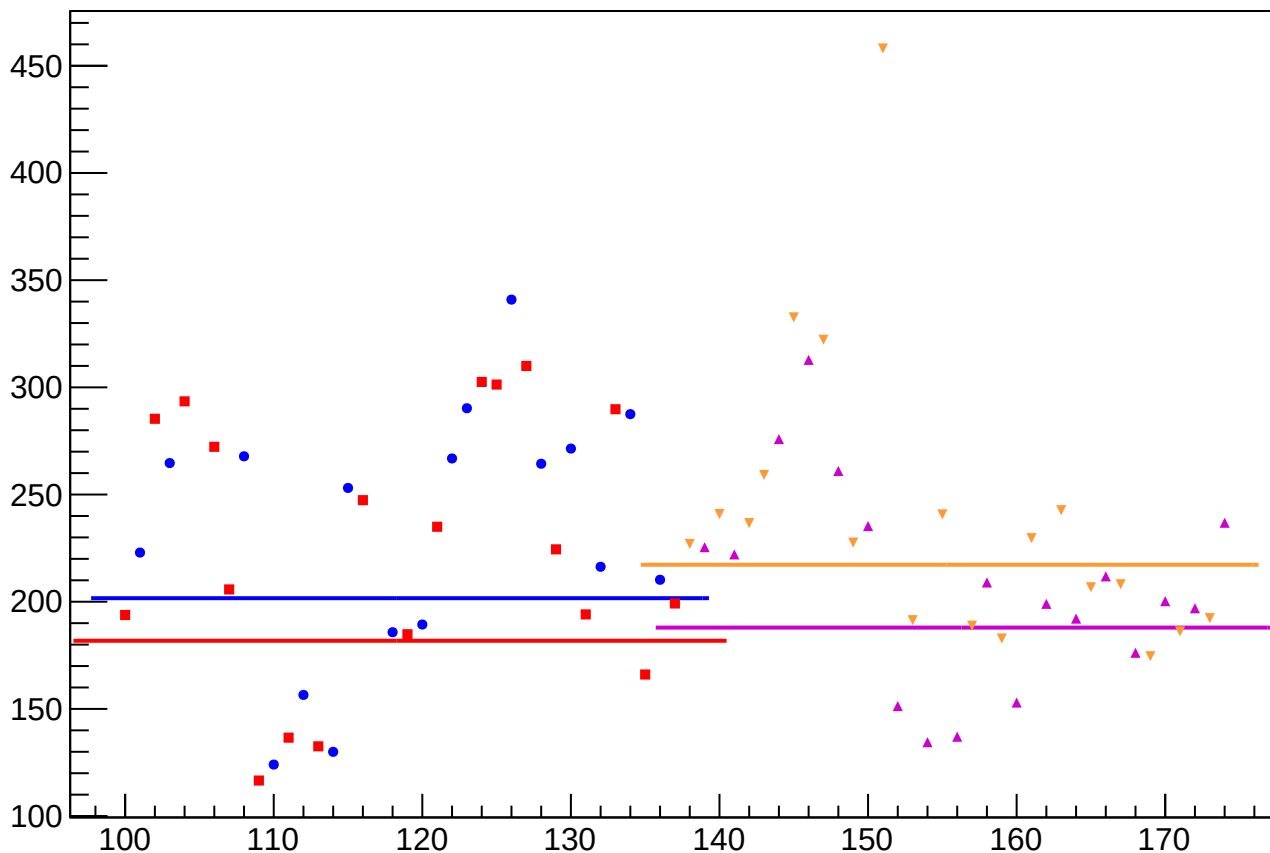
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 54.490 $\pm$ 44.427 χ^2 /NDF: 14.7/34

Out: 15.894 $\pm$ 46.260 χ^2 /NDF: 13.2/37

All: 35.972 $\pm$ 32.043 χ^2 /NDF: 28.3/72

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 217.247+/-0.042 χ^2/NDF :1148157.5/18

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 187.932+/-0.037 χ^2/NDF :1406127.7/17

Left: 200.840+/-0.028 χ^2/NDF : 2824801.4/36

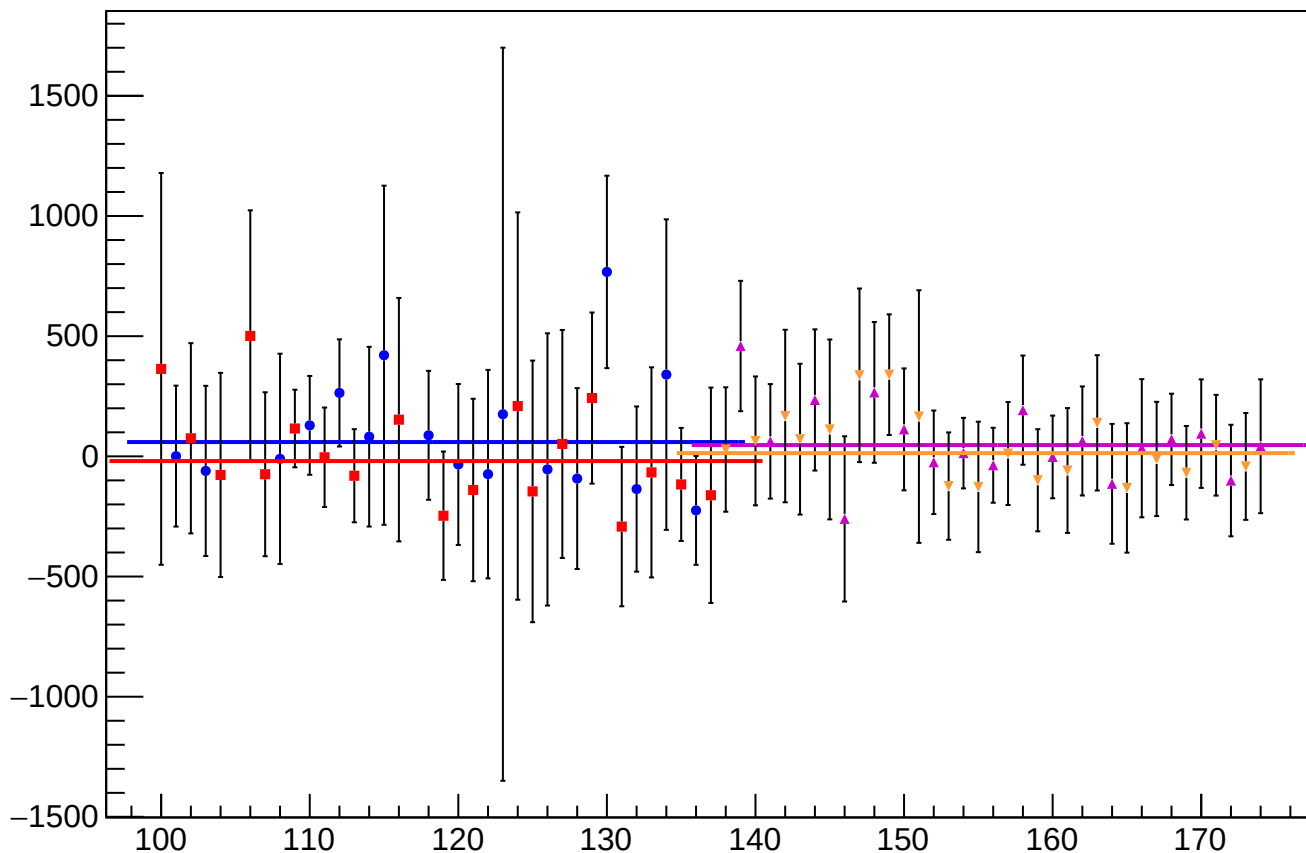
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 191.973+/-0.031 χ^2/NDF :2328943.9/34

Out: 203.131+/-0.033 χ^2/NDF :2807047.9/37

All: 197.327+/-0.023 χ^2/NDF : 5196528.0/72

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 13.489 $\pm$ 59.029 χ^2 /NDF:4.7/18

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 46.936 $\pm$ 52.184 χ^2 /NDF:6.0/17

Left: 32.263 $\pm$ 39.097 χ^2 /NDF: 10.8/36

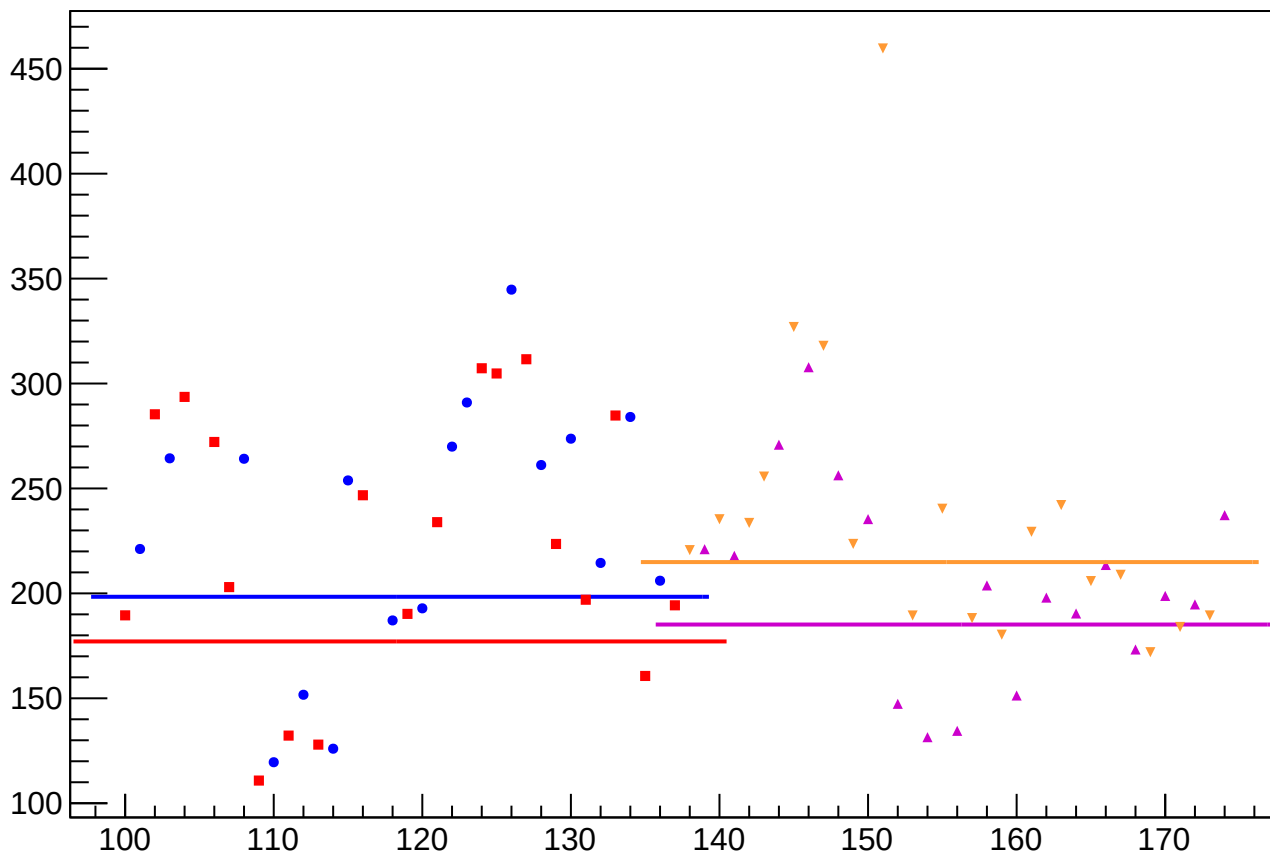
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 50.632 $\pm$ 43.838 χ^2 /NDF:13.0/34

Out: 0.182 $\pm$ 45.614 χ^2 /NDF:9.5/37

All: 26.409 $\pm$ 31.607 χ^2 /NDF: 23.2/72

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 214.914+/-0.042 χ^2/NDF :1153111.6/18

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 185.155+/-0.037 χ^2/NDF :1440418.0/17

Left: 198.210+/-0.028 χ^2/NDF : 2878860.1/36

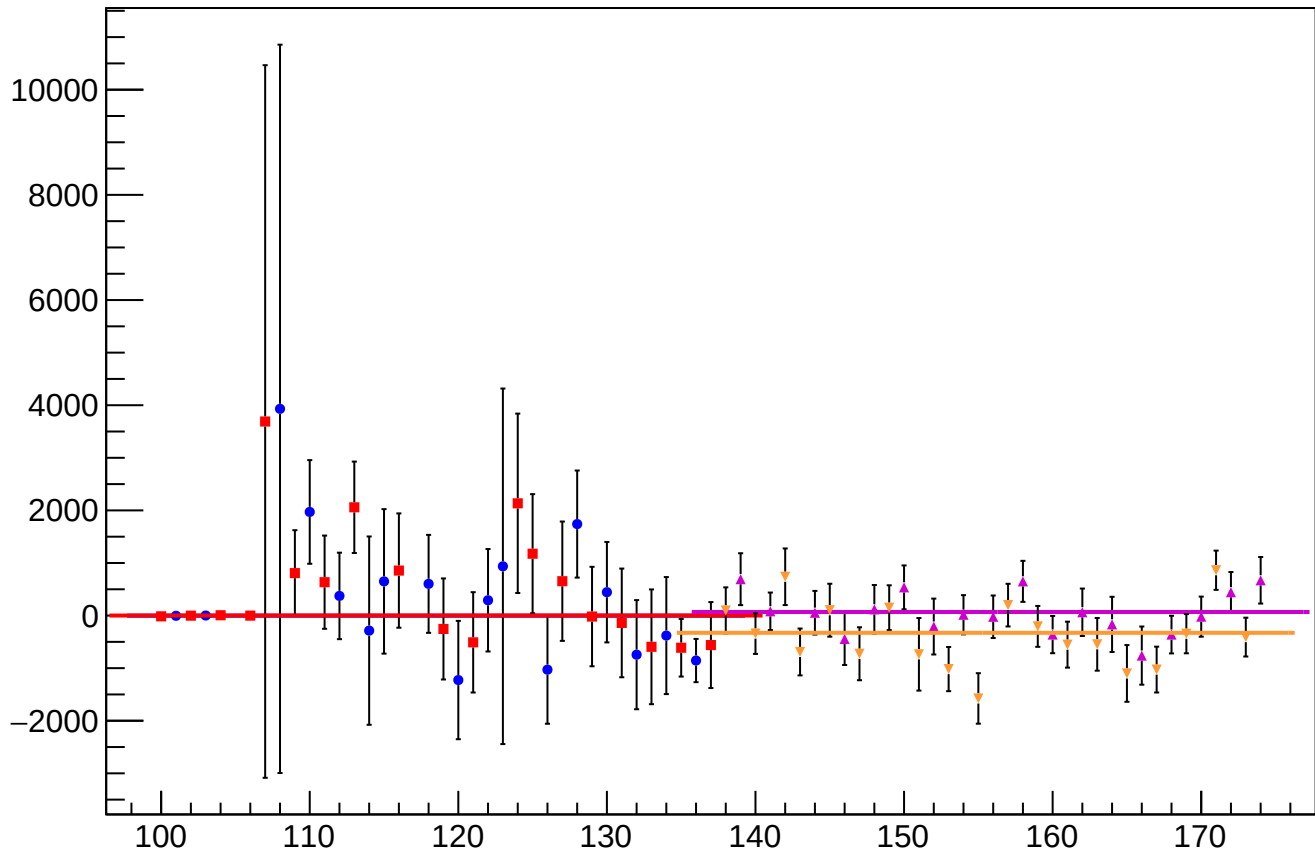
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 189.047+/-0.031 χ^2/NDF :2441883.8/34

Out: 199.679+/-0.032 χ^2/NDF :3008595.1/37

All: 194.152+/-0.022 χ^2/NDF : 5506965.4/72

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -328.018 ± 100.905 χ^2/NDF : 35.0/18

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 68.155 ± 98.991 χ^2/NDF : 14.7/17

Left: -126.138 ± 70.664 χ^2/NDF : 57.6/36

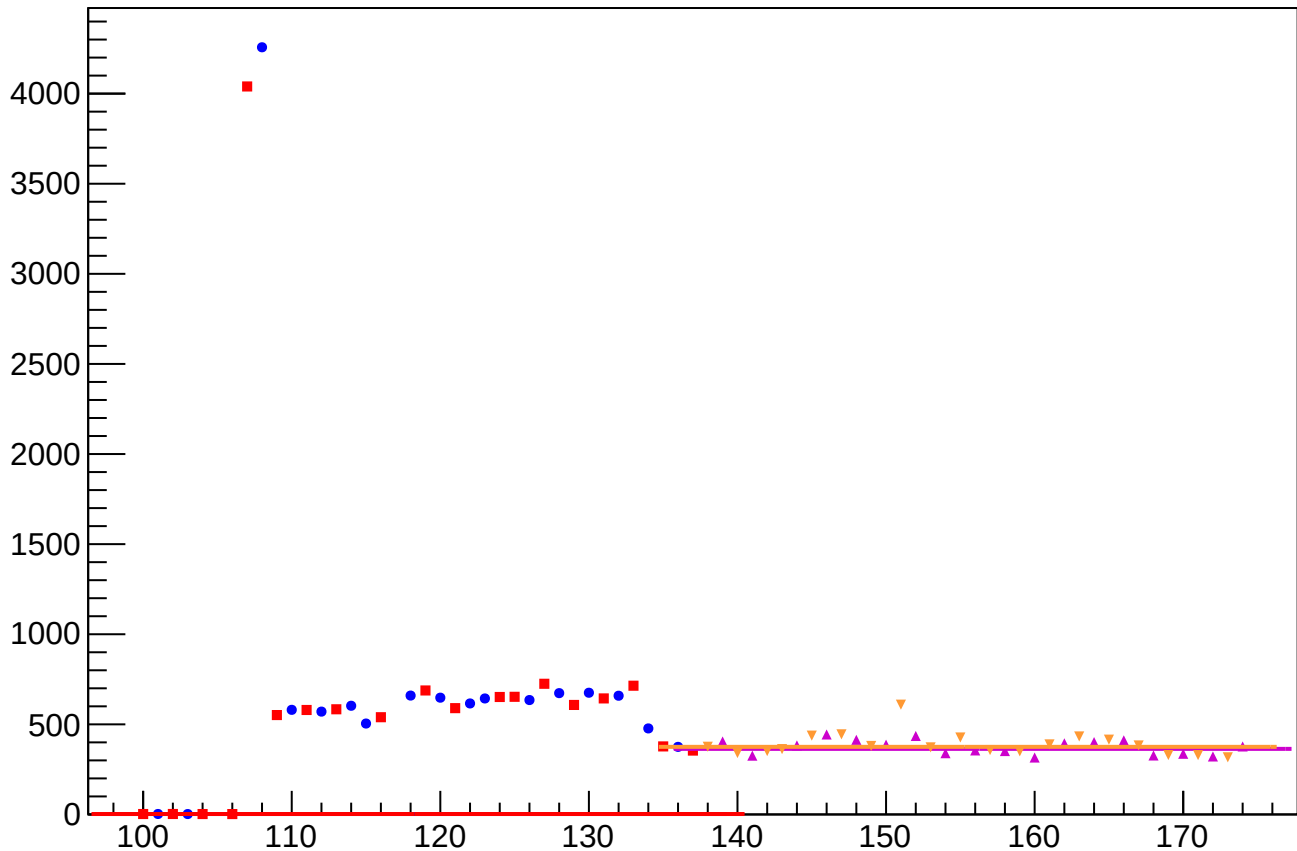
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.493 ± 2.251 χ^2/NDF : 32.2/34

Out: 0.583 ± 2.111 χ^2/NDF : 65.0/37

All: -0.389 ± 1.540 χ^2/NDF : 97.6/72

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 375.206+/-0.071 χ^2/NDF : 505195.3/18

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 363.933+/-0.070 χ^2/NDF : 297793.9/17

Left: 369.461+/-0.050 χ^2/NDF : 815708.0/36

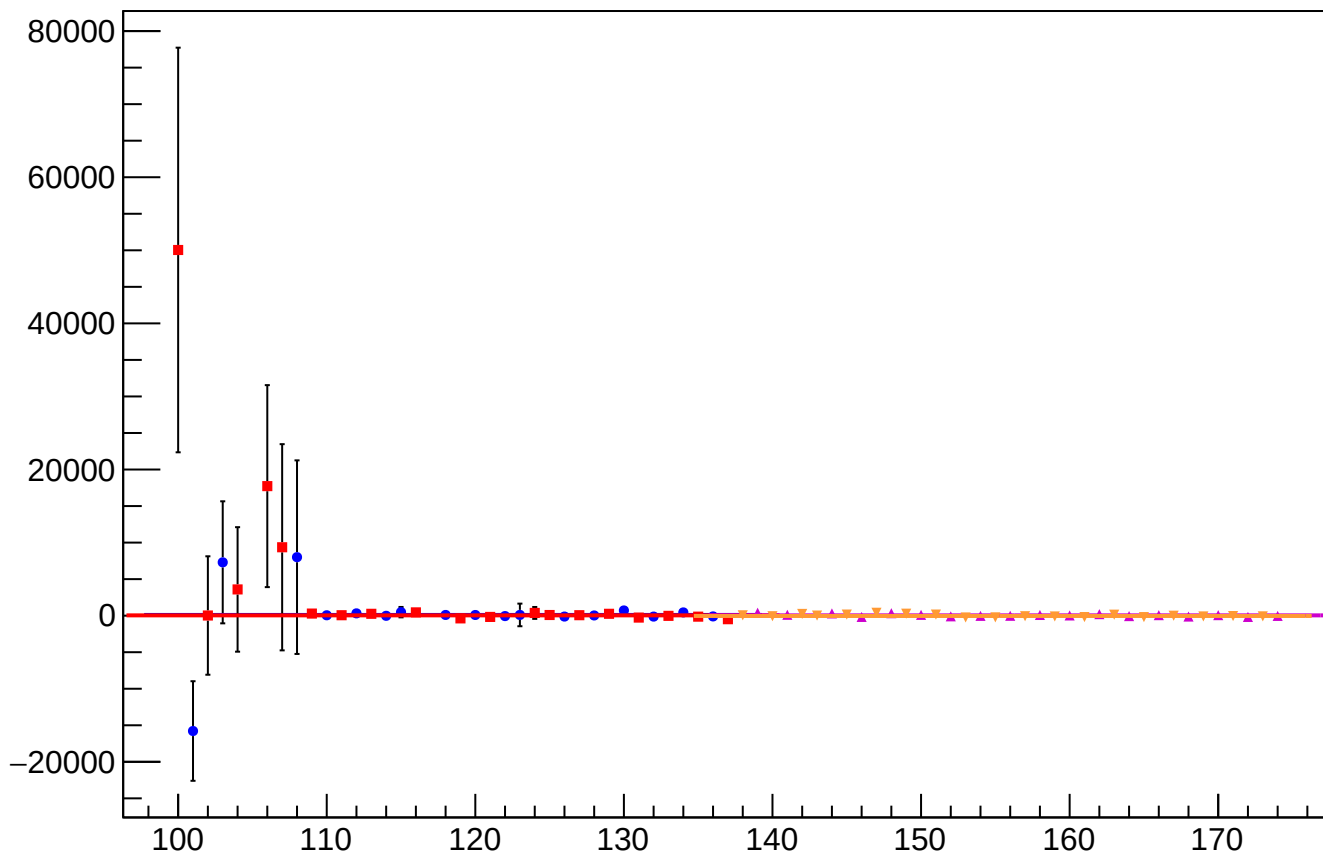
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.644+/-0.002 χ^2/NDF : 37800261.2/34

Out: 2.600+/-0.001 χ^2/NDF : 38935498.5/37

All: 2.620+/-0.001 χ^2/NDF : 76736161.0/72

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -39.835+/-61.544 χ^2/NDF : 6.1/18

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 41.958+/-55.225 χ^2/NDF : 6.8/17

Left: 5.475+/-41.103 χ^2/NDF : 14.0/36

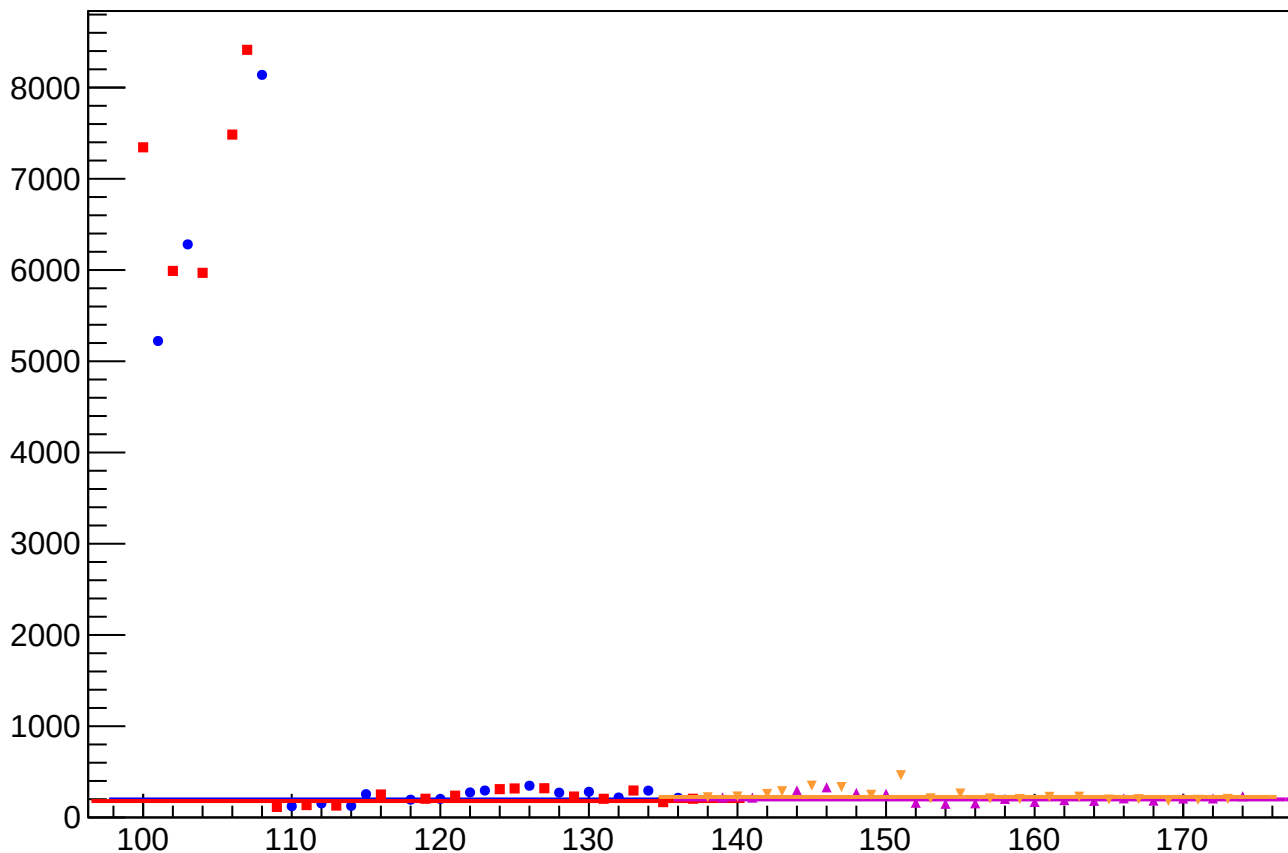
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 57.250+/-47.192 χ^2/NDF : 19.0/34

Out: -11.364+/-49.747 χ^2/NDF : 20.7/37

All: 24.750+/-34.237 χ^2/NDF : 40.6/72

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 224.543+/-0.044 χ^2/NDF :1126200.5/18

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 197.536+/-0.039 χ^2/NDF :1114281.9/17

Left: 209.582+/-0.029 χ^2/NDF : 2453823.6/36

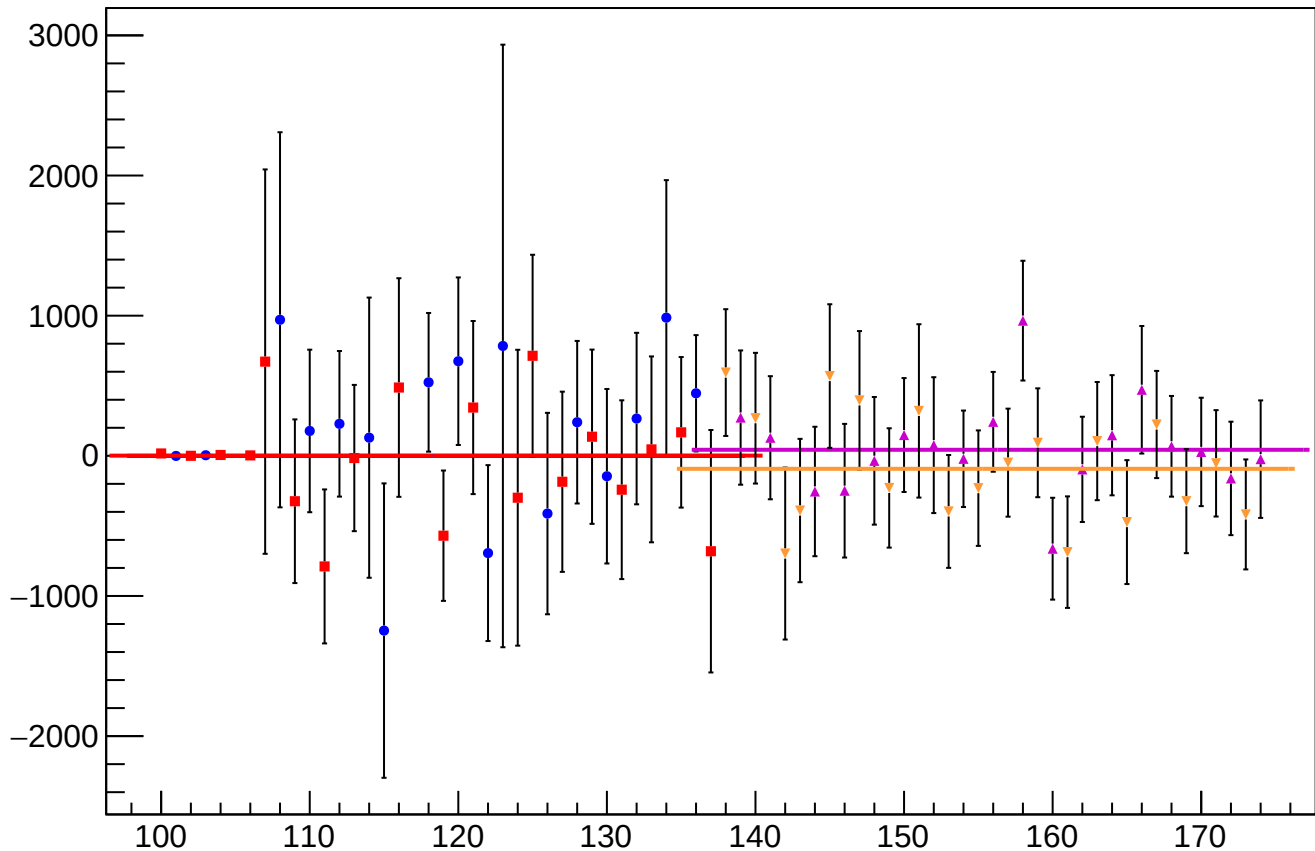
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 197.415+/-0.033 χ^2/NDF :4807931.8/34

Out: 209.085+/-0.035 χ^2/NDF :5811341.0/37

All: 202.943+/-0.024 χ^2/NDF : 10677211.2/72

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -92.629 ± 99.008 χ^2/NDF : 13.3/18

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 43.094 ± 96.800 χ^2/NDF : 11.3/17

Left: -23.238 ± 69.215 χ^2/NDF : 25.6/36

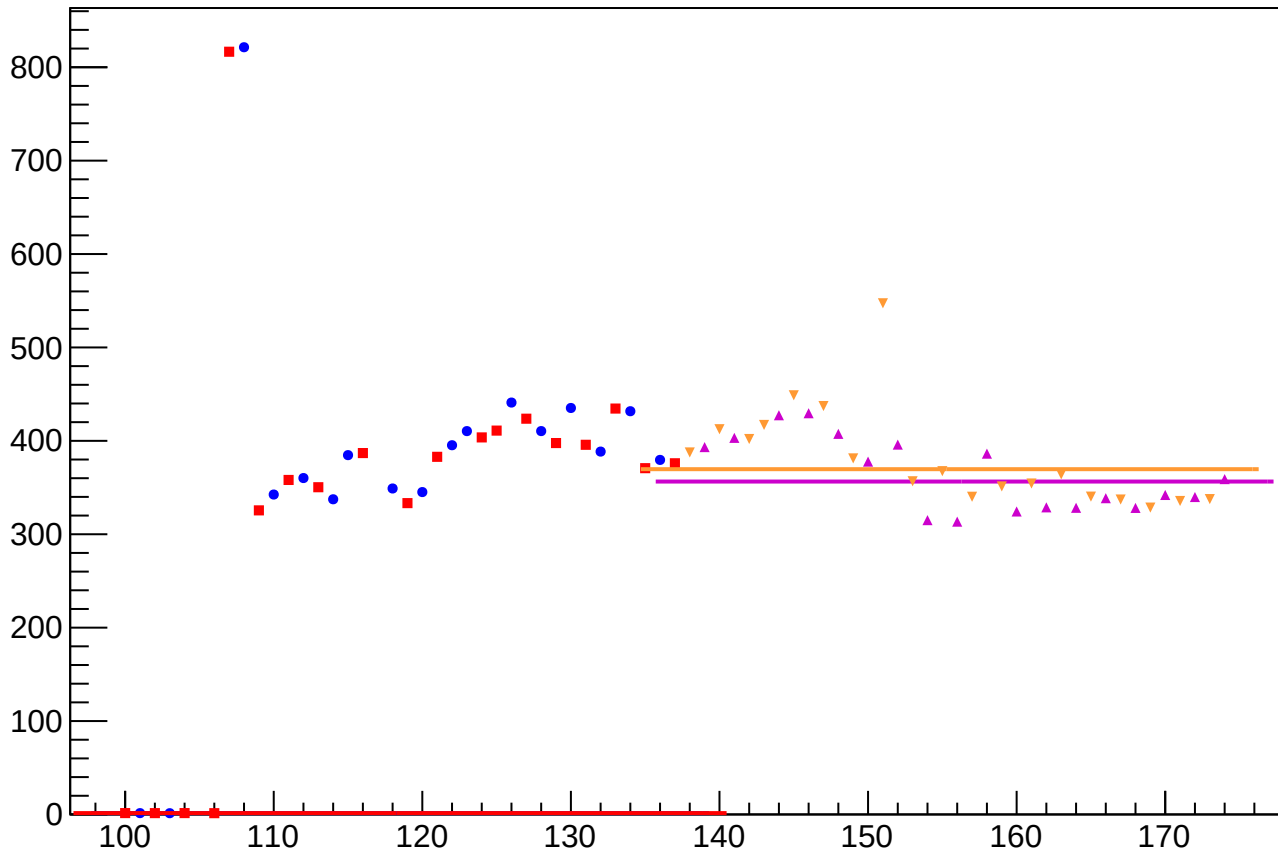
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.124 ± 1.736 χ^2/NDF : 21.2/34

Out: 1.298 ± 1.622 χ^2/NDF : 23.8/37

All: 0.635 ± 1.185 χ^2/NDF : 45.4/72

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 369.663+/-0.070 χ^2/NDF : 393097.4/18

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 356.426+/-0.068 χ^2/NDF : 297040.9/17

Left: 362.895+/-0.049 χ^2/NDF : 708417.4/36

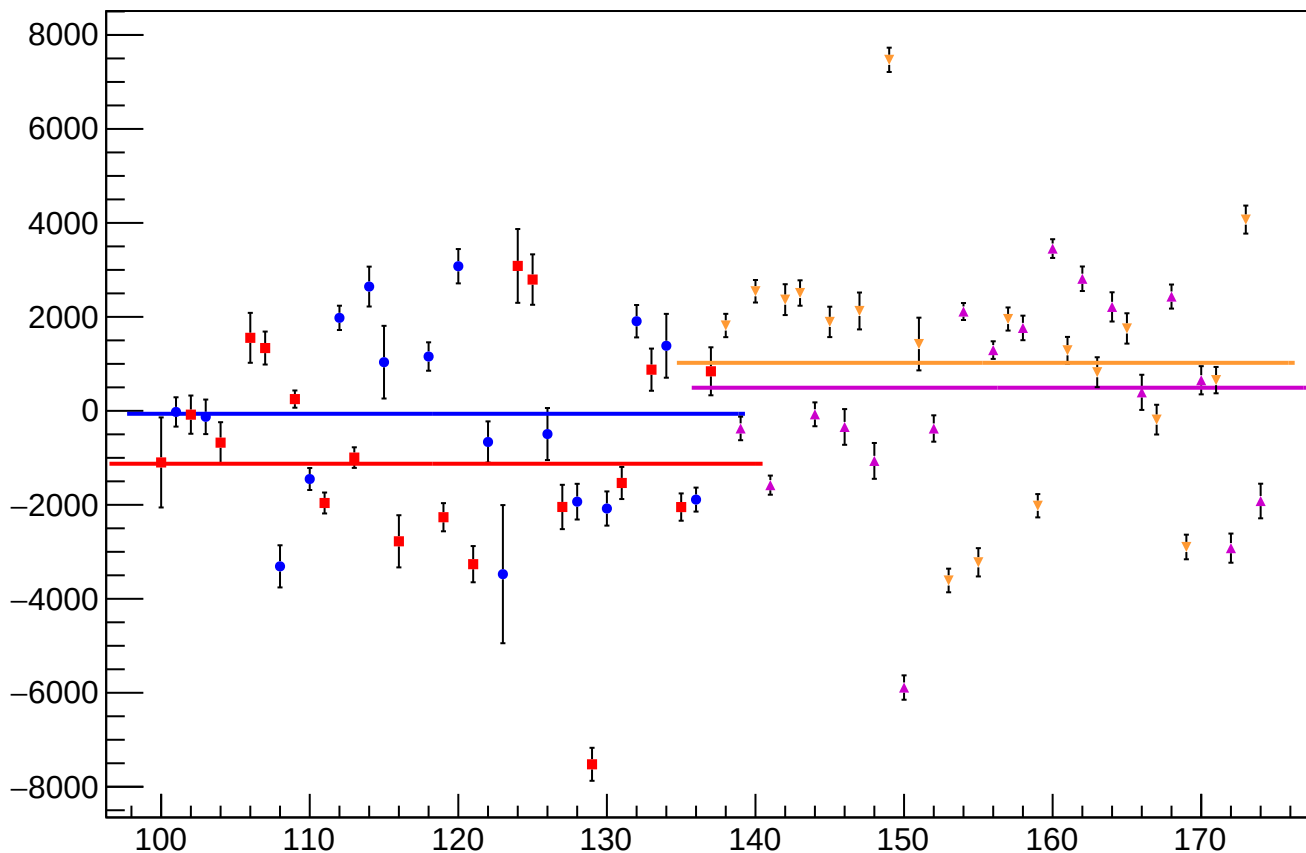
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.567+/-0.001 χ^2/NDF : 38141436.7/34

Out: 1.550+/-0.001 χ^2/NDF : 38928770.3/37

All: 1.558+/-0.001 χ^2/NDF : 77070310.8/72

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 1022.266 ± 65.849 χ^2/NDF : 1788.0/18

Right Out: -1125.437 ± 78.370 χ^2/NDF : 671.2/18

Left In: 492.278 ± 60.634 χ^2/NDF : 1430.7/17

Left: 735.458 ± 44.605 χ^2/NDF : 3253.7/36

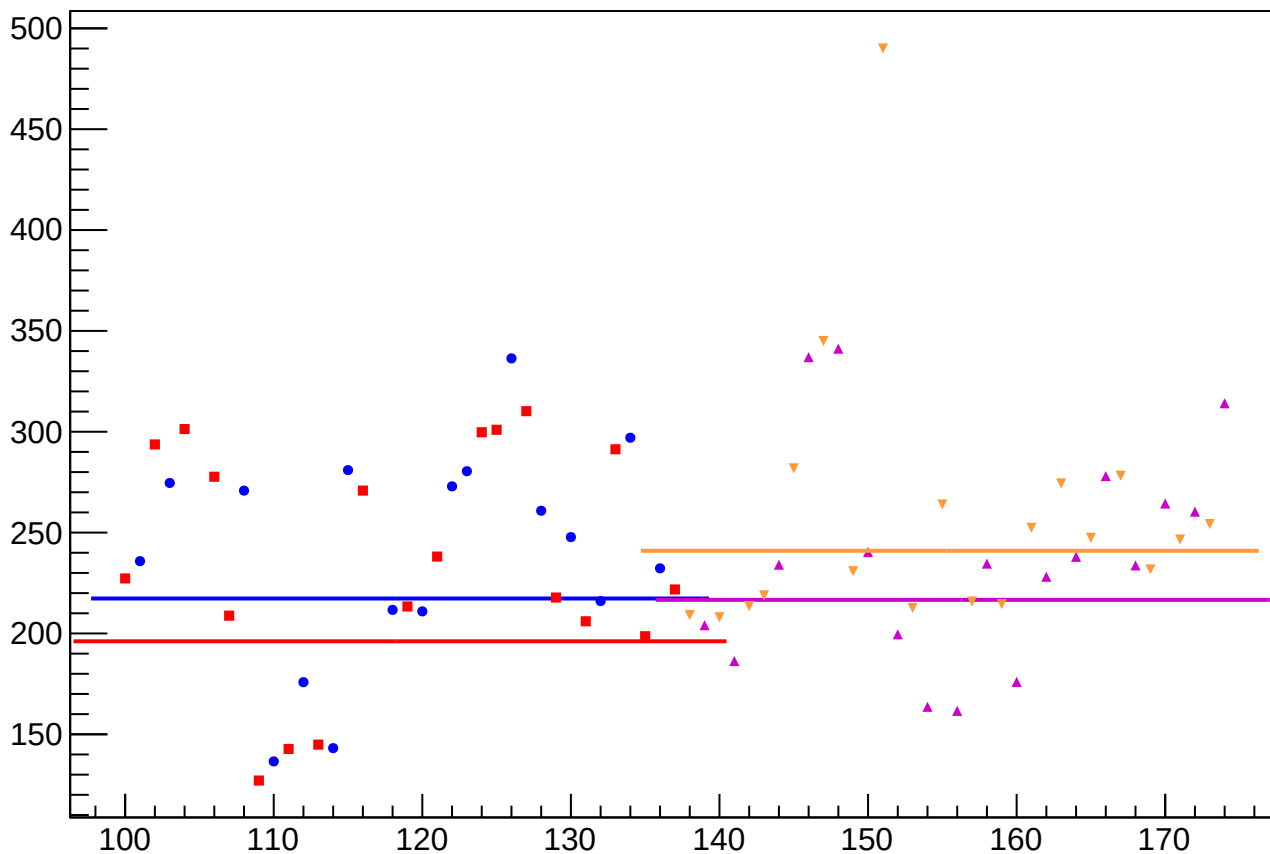
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 312.198 ± 49.824 χ^2/NDF : 1891.7/34

Out: 133.479 ± 50.415 χ^2/NDF : 2899.4/37

All: 223.893 ± 35.438 χ^2/NDF : 4797.5/72

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 +/- 0.062 χ^2/NDF : 652722.5/16

Left Out: 241.005 +/- 0.047 χ^2/NDF : 809327.9/18

Right Out: 196.105 +/- 0.055 χ^2/NDF : 1190733.6/18

Left In: 216.666 +/- 0.043 χ^2/NDF : 1240110.3/17

Left: 227.834 +/- 0.032 χ^2/NDF : 2197300.7/36

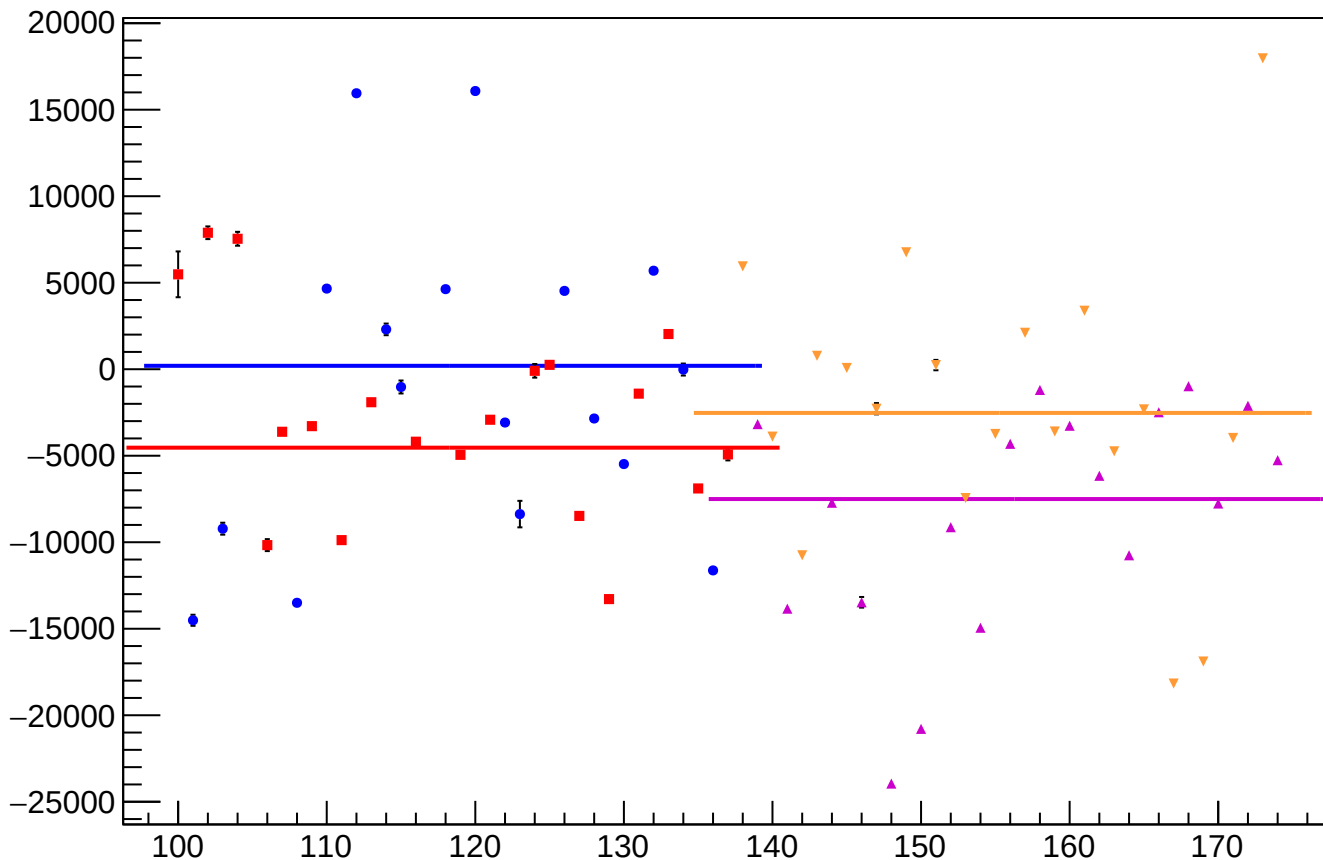
Right: 205.562 +/- 0.041 χ^2/NDF : 1908816.5/35

In: 216.882 +/- 0.035 χ^2/NDF : 1892910.8/34

Out: 222.424 +/- 0.036 χ^2/NDF : 2384865.0/37

All: 219.620 +/- 0.025 χ^2/NDF : 4290004.0/72

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -2525.898+/-45.950 χ^2/NDF :29751.6/18

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -7503.576+/-47.096 χ^2/NDF :17289.1/17

Left: -4953.470+/-32.889 χ^2/NDF : 52763.7/36

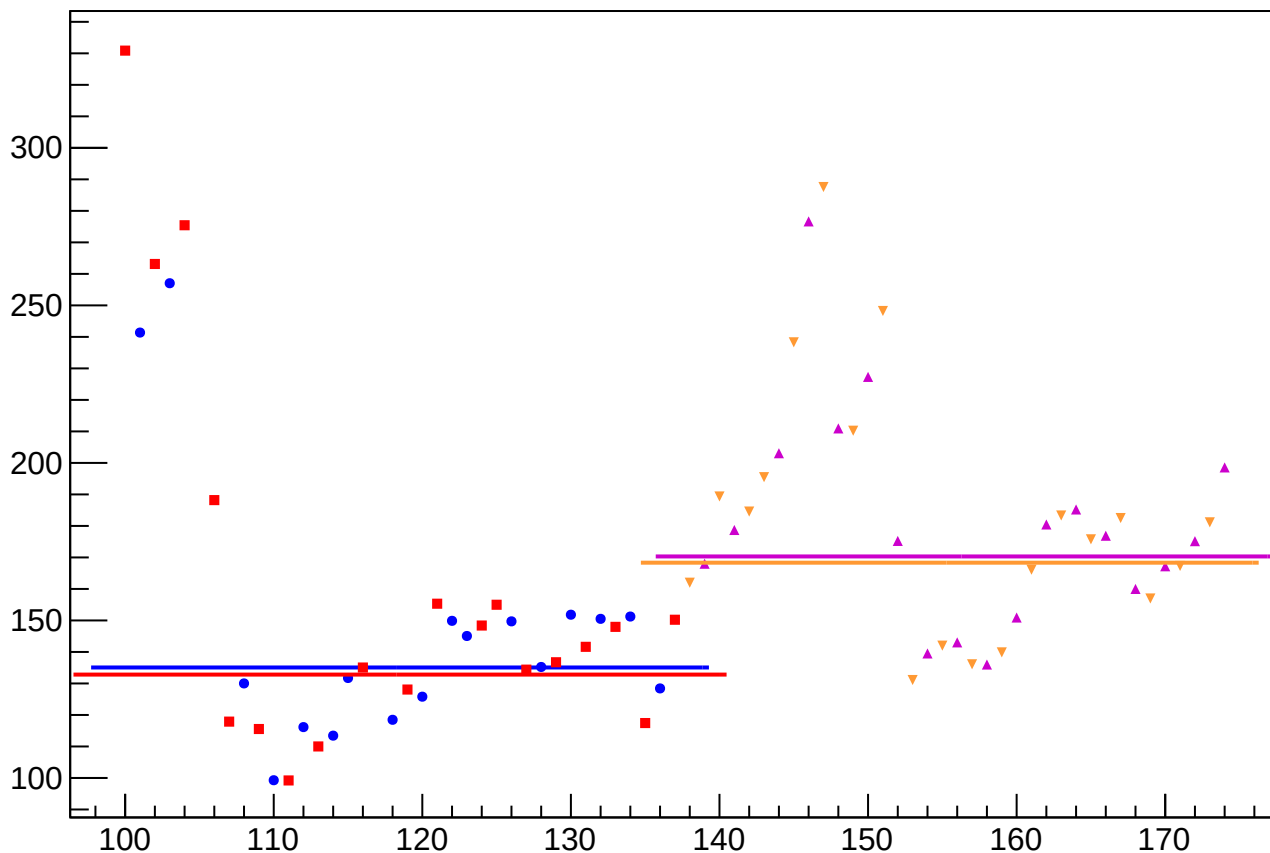
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4232.107+/-35.717 χ^2/NDF :59305.5/34

Out: -3397.751+/-34.566 χ^2/NDF :38058.1/37

All: -3801.266+/-24.839 χ^2/NDF : 97645.4/72

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 168.335+/-0.032 χ^2/NDF : 1028551.6/18

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 170.315+/-0.033 χ^2/NDF : 769336.1/17

Left: 169.301+/-0.023 χ^2/NDF : 1799699.2/36

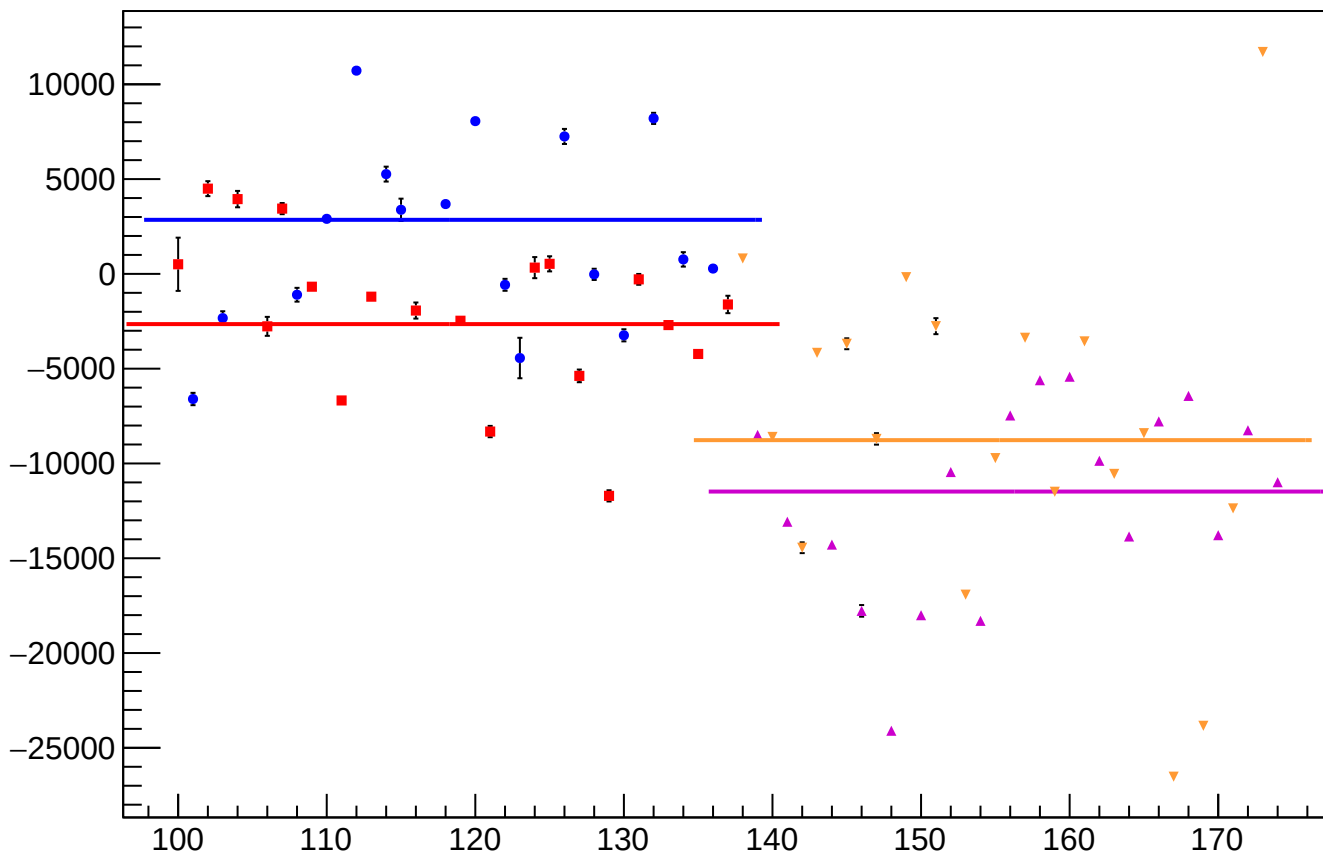
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 155.343+/-0.025 χ^2/NDF : 1903855.6/34

Out: 152.915+/-0.024 χ^2/NDF : 2378518.6/37

All: 154.089+/-0.018 χ^2/NDF : 4287143.4/72

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8770.420+/-51.770 χ^2/NDF :29644.1/18

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11482.198+/-48.179 χ^2/NDF :10807.9/17

Left: -10223.636+/-35.269 χ^2/NDF : 41922.4/36

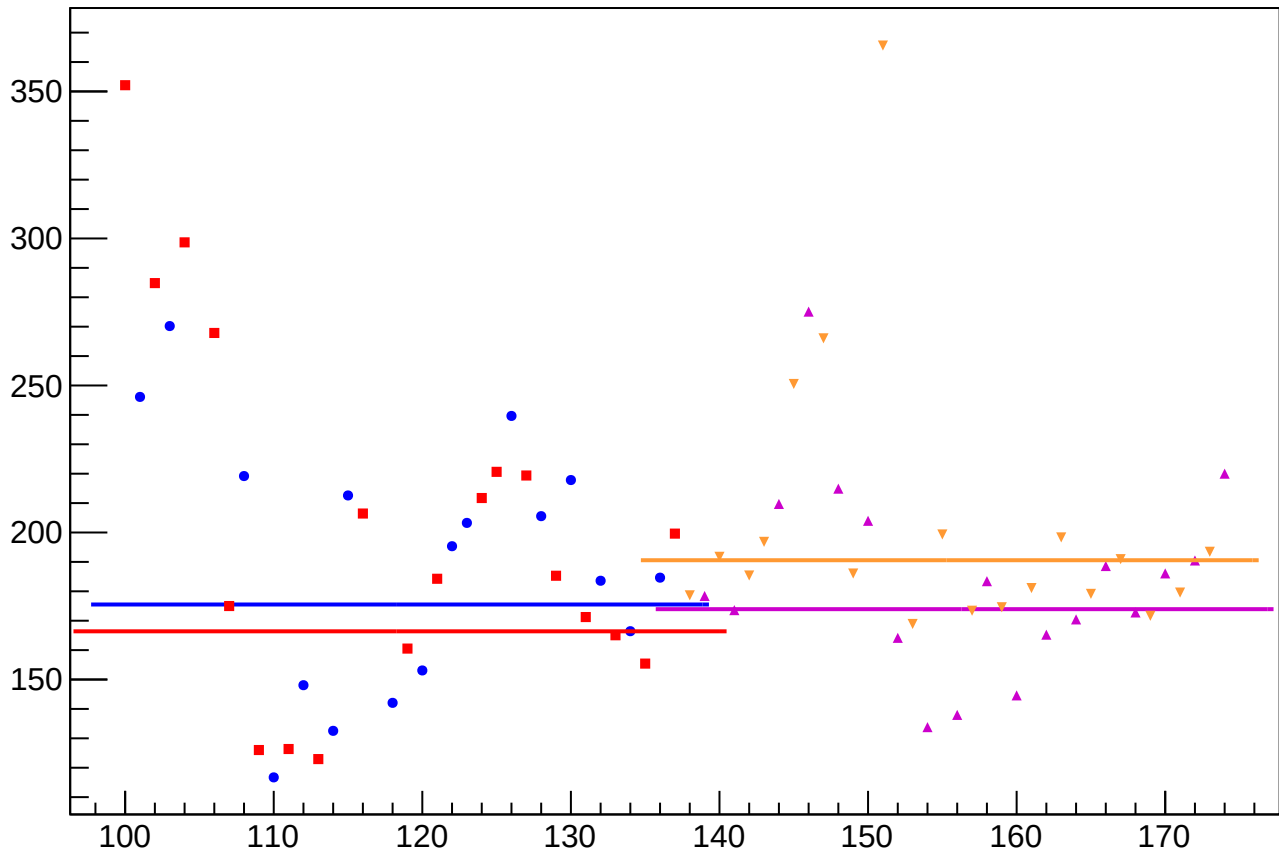
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6941.465+/-39.823 χ^2/NDF :43025.8/34

Out: -6426.927+/-40.670 χ^2/NDF :38172.1/37

All: -6689.614+/-28.454 χ^2/NDF : 81279.6/72

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 190.569+/-0.037 χ^2/NDF : 656496.3/18

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 173.928+/-0.034 χ^2/NDF : 776592.7/17

Left: 181.651+/-0.025 χ^2/NDF : 1543822.9/36

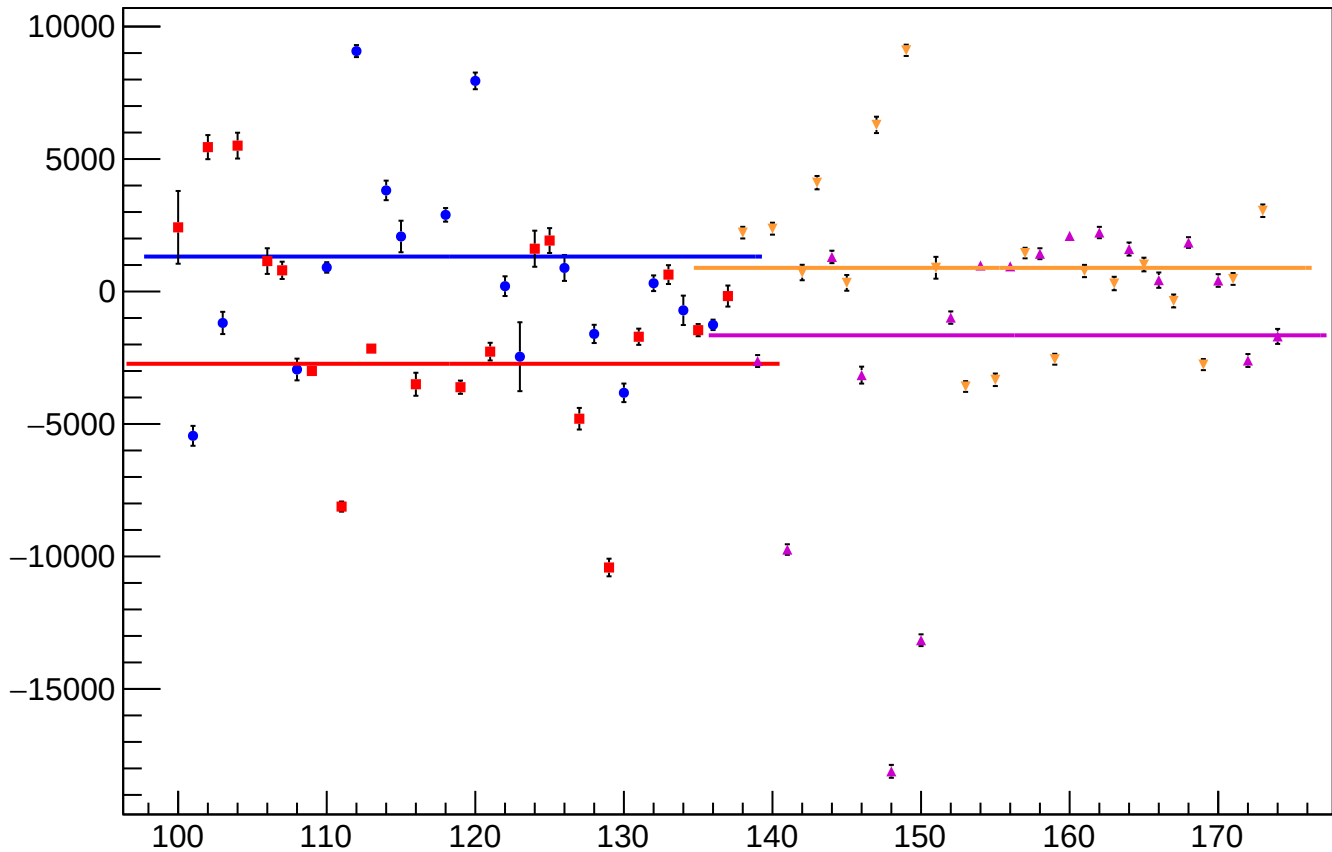
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 174.431+/-0.028 χ^2/NDF : 1466921.6/34

Out: 181.313+/-0.029 χ^2/NDF : 1753006.4/37

All: 177.799+/-0.020 χ^2/NDF : 3249169.1/72

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 892.609+/-54.632 χ^2/NDF : 3554.6/18

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1653.949+/-50.720 χ^2/NDF : 11302.8/17

Left: -475.087+/-37.171 χ^2/NDF : 16024.4/36

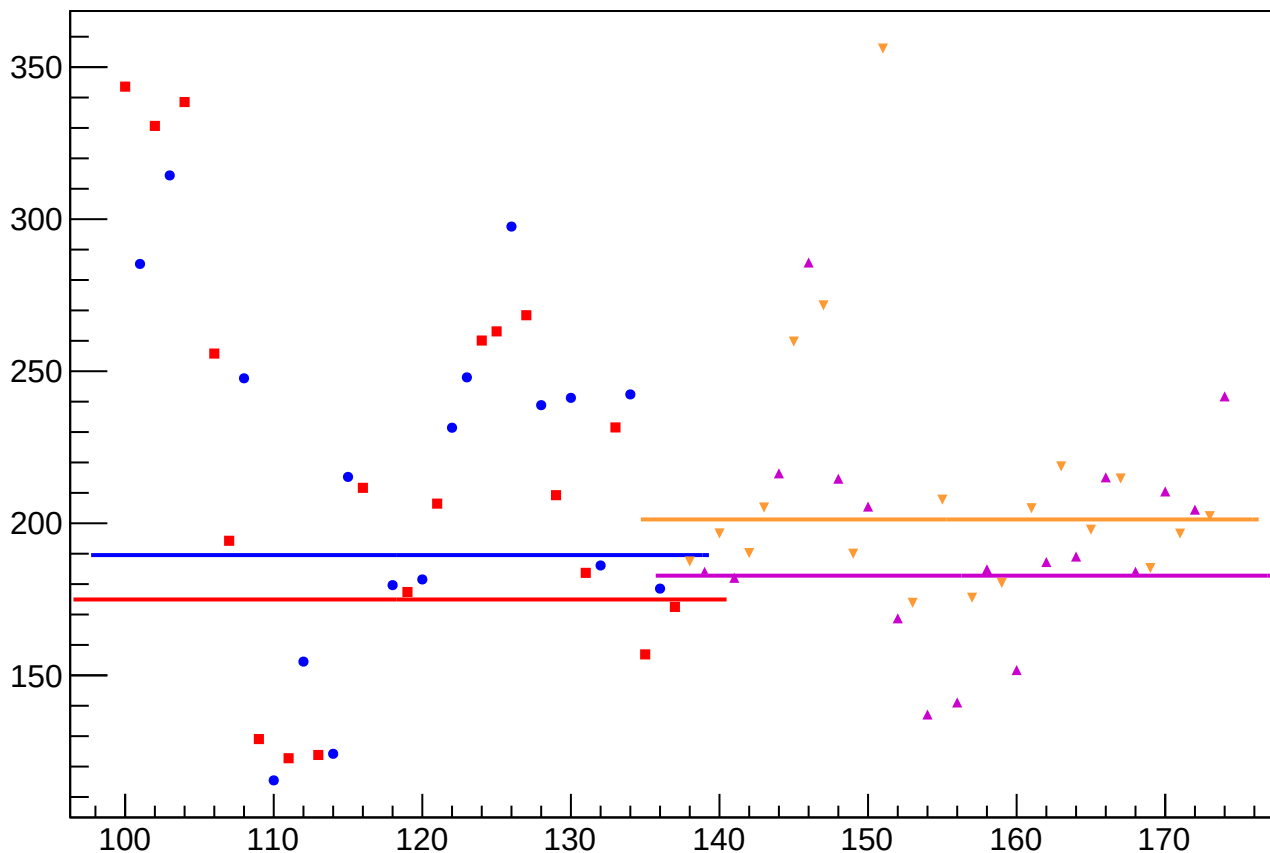
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -756.703+/-42.381 χ^2/NDF : 15006.7/34

Out: -477.146+/-43.075 χ^2/NDF : 7712.1/37

All: -619.193+/-30.210 χ^2/NDF : 22740.2/72

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 ± 0.055 $\chi^2/\text{NDF}: 980744.6/16$

Left Out: 201.262 ± 0.039 $\chi^2/\text{NDF}: 601891.9/18$

Right Out: 174.944 ± 0.050 $\chi^2/\text{NDF}: 1297106.6/18$

Left In: 182.774 ± 0.036 $\chi^2/\text{NDF}: 846531.0/17$

Left: 191.333 ± 0.026 $\chi^2/\text{NDF}: 1571432.0/36$

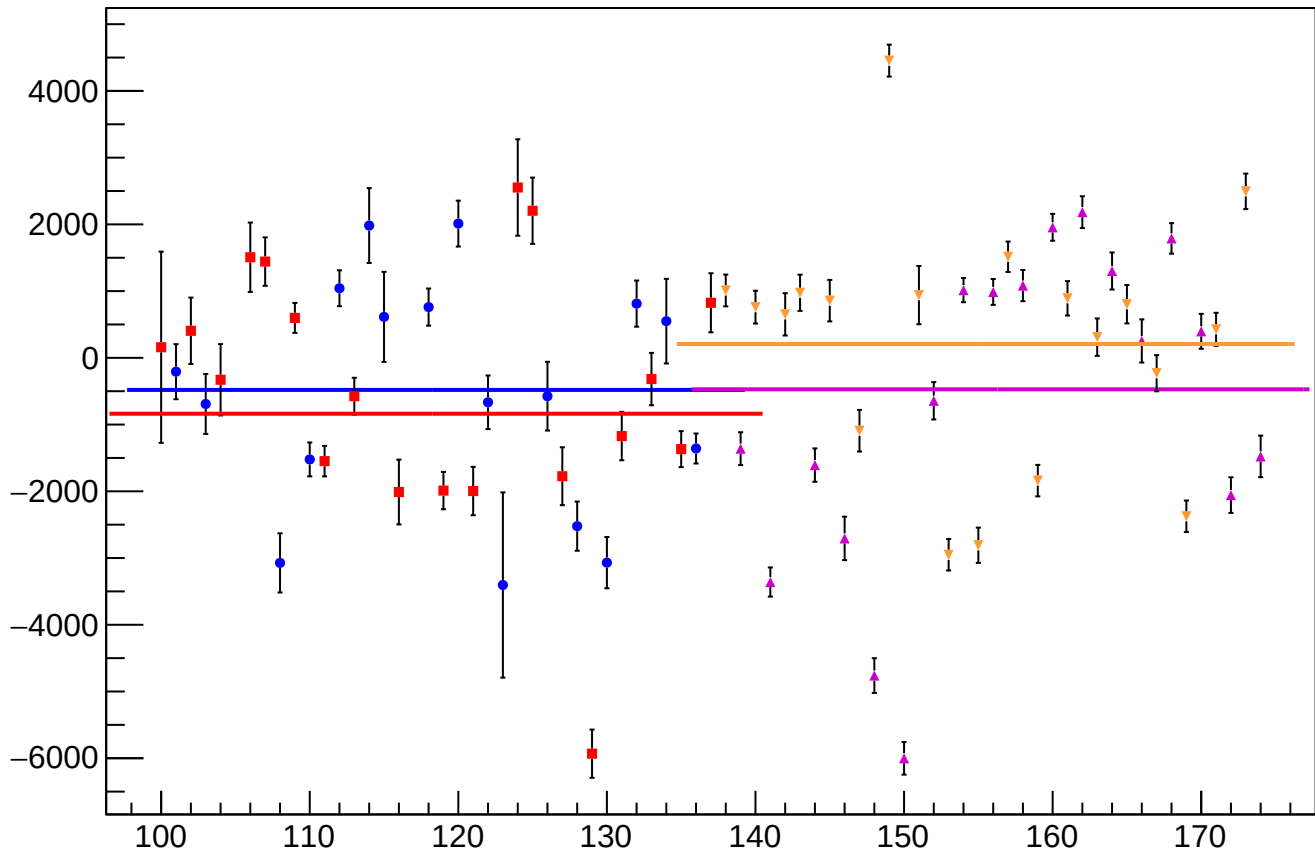
Right: 181.540 ± 0.037 $\chi^2/\text{NDF}: 2317127.7/35$

In: 184.818 ± 0.030 $\chi^2/\text{NDF}: 1838029.7/34$

Out: 191.305 ± 0.030 $\chi^2/\text{NDF}: 2074605.0/37$

All: 188.009 ± 0.021 $\chi^2/\text{NDF}: 3935683.4/72$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 207.390 ± 60.567 χ^2/NDF : 992.7/18

Right Out: -837.442 ± 82.243 χ^2/NDF : 435.3/18

Left In: -471.622 ± 57.258 χ^2/NDF : 1673.4/17

Left: -151.172 ± 41.608 χ^2/NDF : 2732.5/36

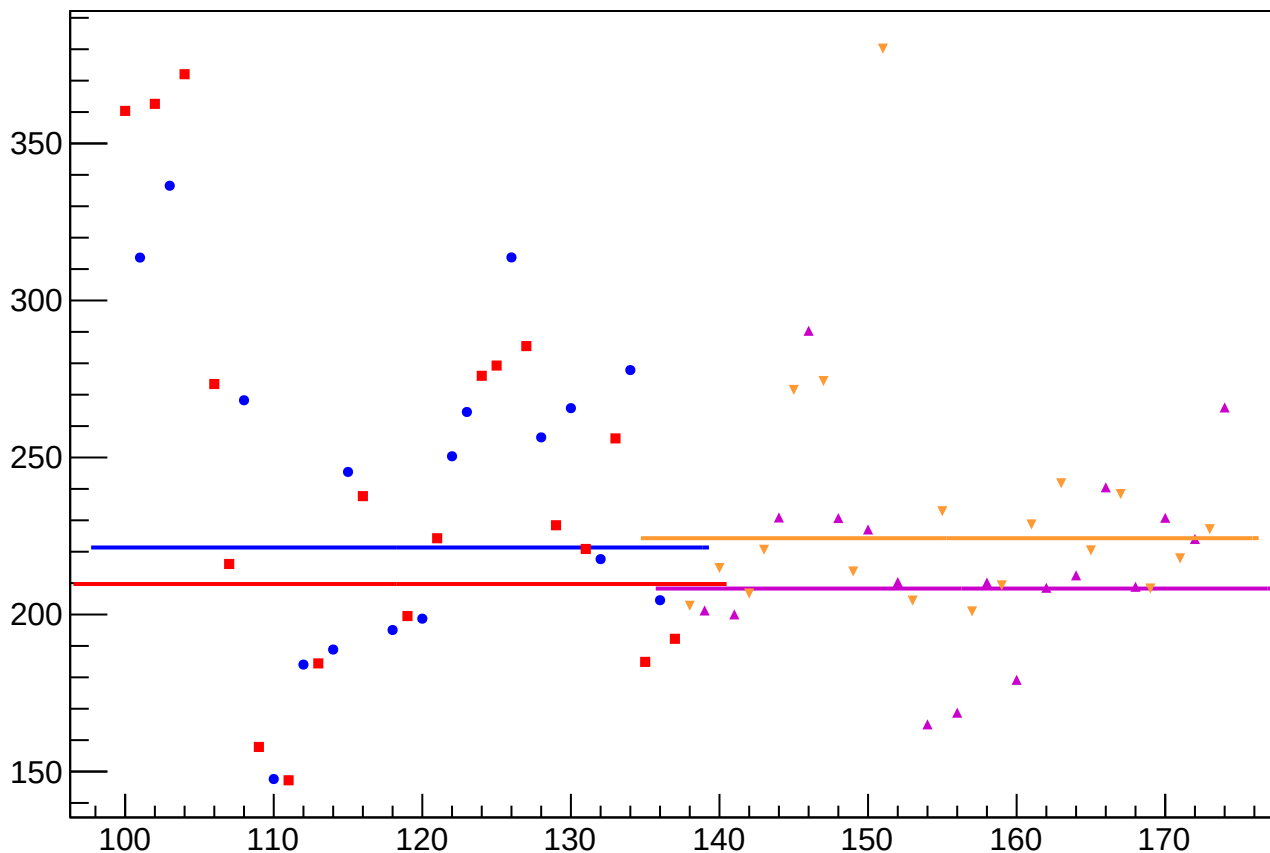
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -474.259 ± 48.096 χ^2/NDF : 1964.1/34

Out: -160.011 ± 48.769 χ^2/NDF : 1532.7/37

All: -319.319 ± 34.245 χ^2/NDF : 3517.8/72

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.309 $\pm$ 0.043 χ^2 /NDF: 452907.3/18

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 208.270 $\pm$ 0.040 χ^2 /NDF: 523879.0/17

Left: 215.839 $\pm$ 0.029 χ^2 /NDF: 1050843.7/36

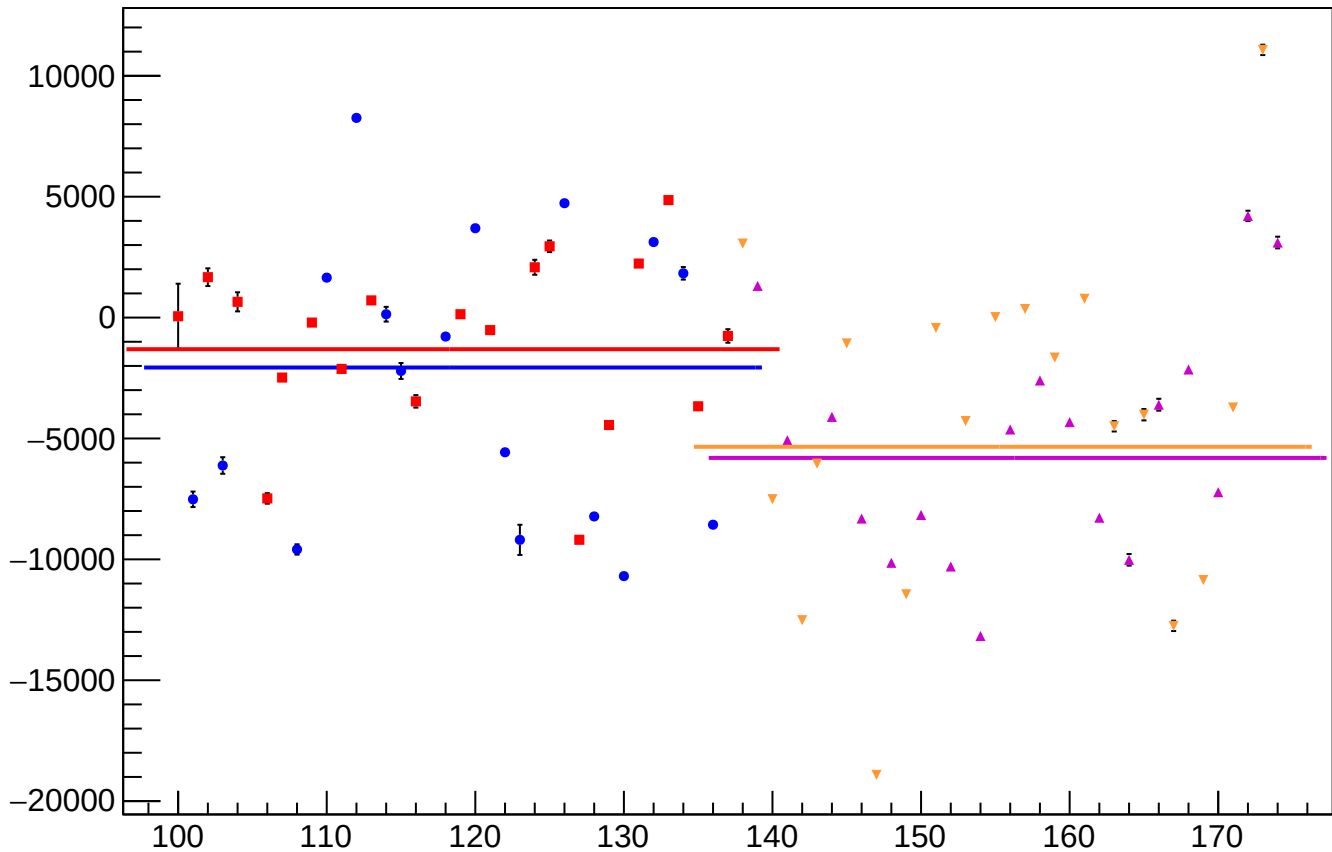
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 212.119 $\pm$ 0.034 χ^2 /NDF: 1200256.4/34

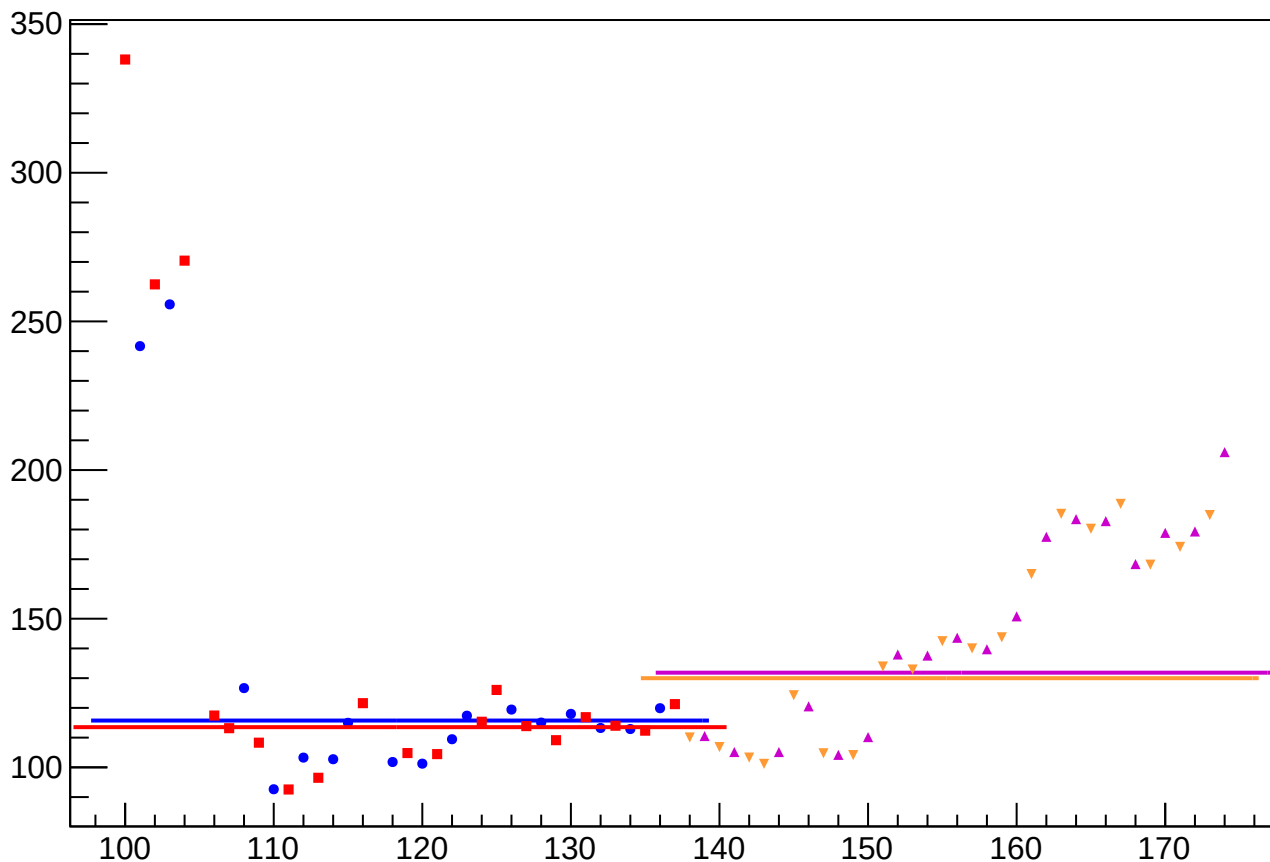
Out: 219.178 $\pm$ 0.034 χ^2 /NDF: 1377647.1/37

All: 215.599 $\pm$ 0.024 χ^2 /NDF: 2599143.8/72

asym_bpm1i02WS_mean vs Slug, Sign Corrected



asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 129.987+/-0.025 χ^2/NDF :1259948.8/18

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 131.843+/-0.026 χ^2/NDF :1252580.1/17

Left: 130.892+/-0.018 χ^2/NDF : 2515182.9/36

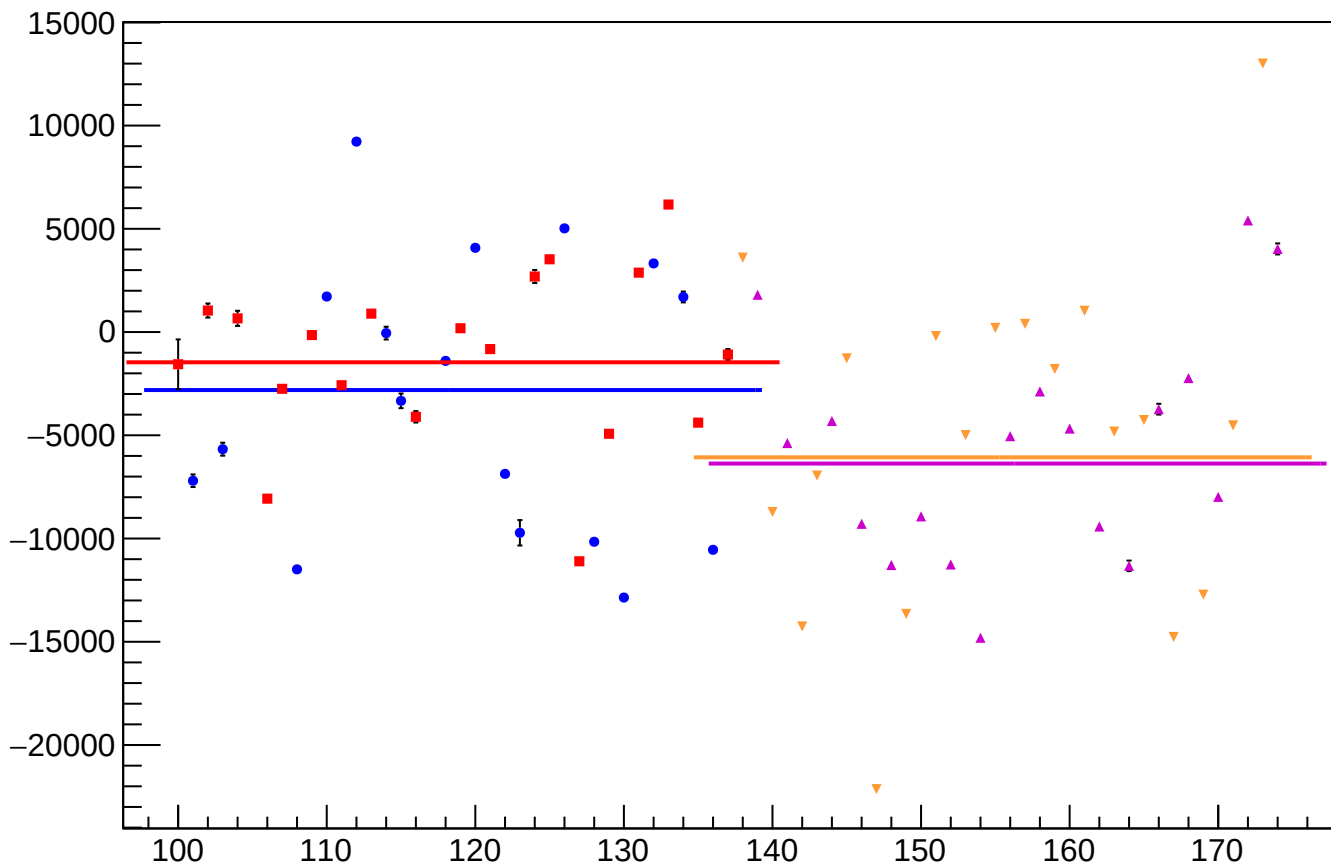
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 125.847+/-0.020 χ^2/NDF :2141929.7/34

Out: 123.653+/-0.020 χ^2/NDF :2221408.4/37

All: 124.712+/-0.014 χ^2/NDF : 4369304.4/72

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101 $\pm$ 48.284 χ^2/NDF : 21263.1/16

Left Out: -6067.308 $\pm$ 37.805 χ^2/NDF : 43230.1/18

Right Out: -1465.074 $\pm$ 46.394 χ^2/NDF : 8004.7/18

Left In: -6369.898 $\pm$ 38.774 χ^2/NDF : 15668.1/17

Left: -6214.776 $\pm$ 27.068 χ^2/NDF : 58929.4/36

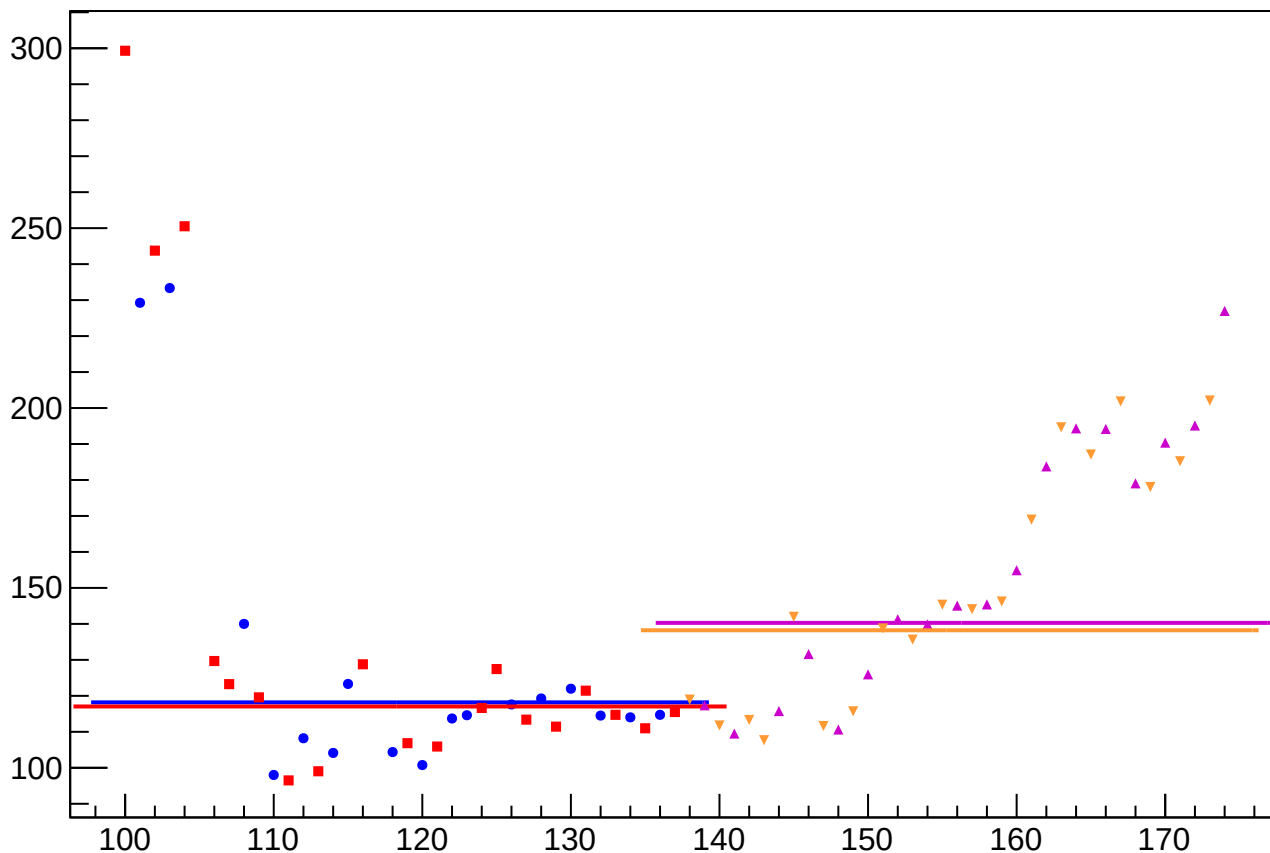
Right: -2110.267 $\pm$ 33.454 χ^2/NDF : 29670.7/35

In: -4973.919 $\pm$ 30.232 χ^2/NDF : 40237.6/34

Out: -4230.846 $\pm$ 29.307 χ^2/NDF : 57148.4/37

All: -4590.836 $\pm$ 21.043 χ^2/NDF : 97697.5/72

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 138.229+/-0.027 χ^2/NDF :1159366.9/18

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 140.285+/-0.027 χ^2/NDF :1182661.1/17

Left: 139.231+/-0.019 χ^2/NDF : 2344913.2/36

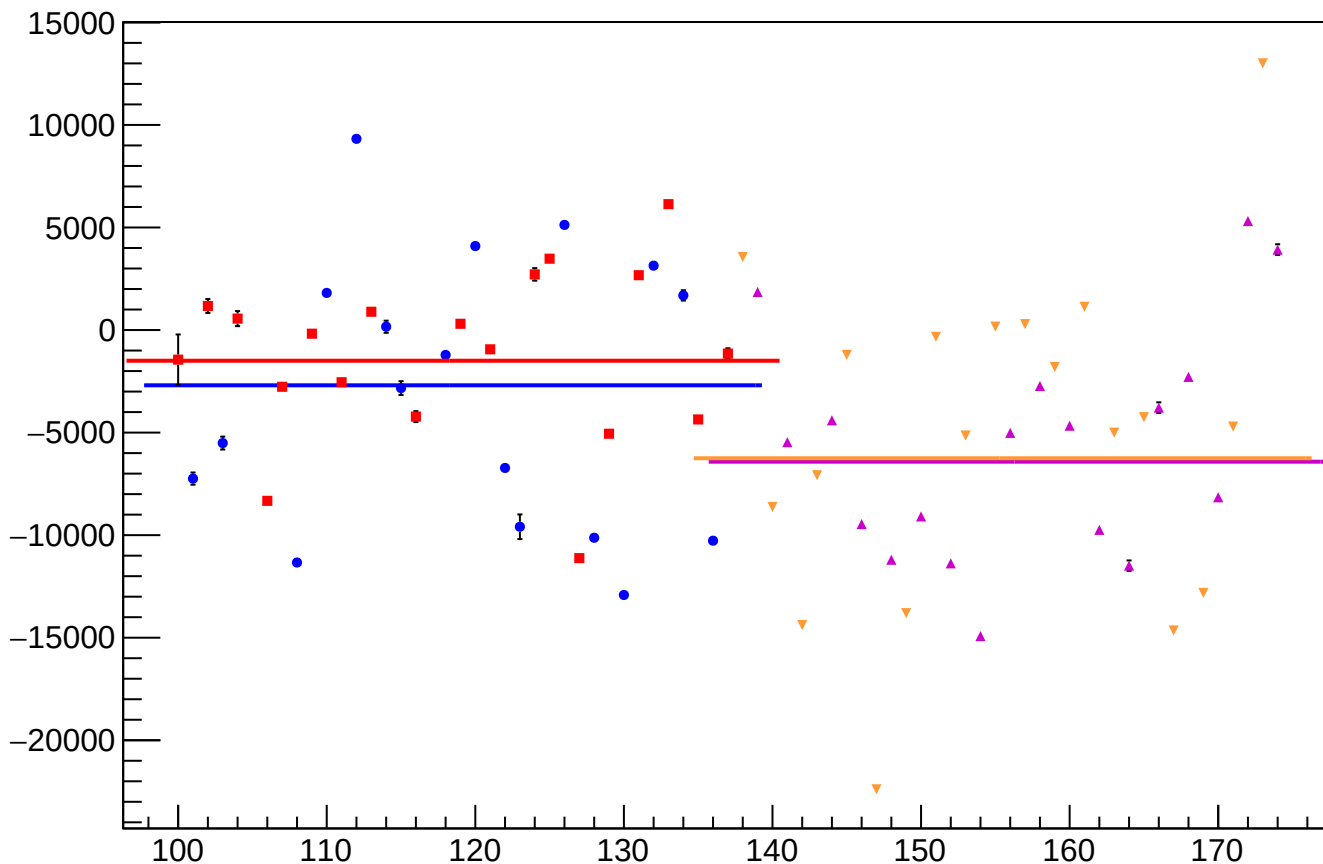
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 131.622+/-0.021 χ^2/NDF :2073576.0/34

Out: 129.776+/-0.021 χ^2/NDF :2100569.9/37

All: 130.670+/-0.015 χ^2/NDF : 4177992.7/72

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6250.895+/-36.904 χ^2/NDF : 46912.1/18

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6418.433+/-37.775 χ^2/NDF : 16719.8/17

Left: -6332.712+/-26.398 χ^2/NDF : 63641.9/36

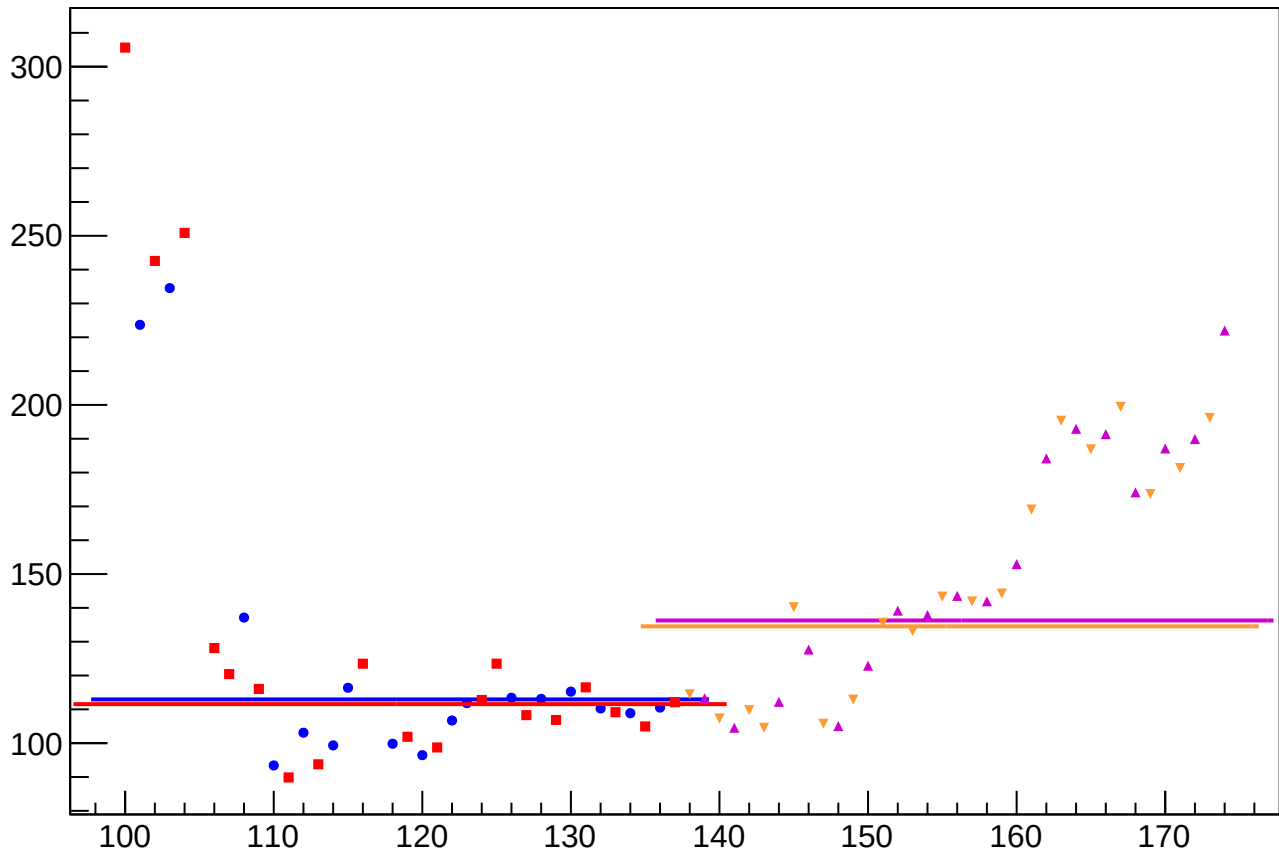
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -4931.958+/-29.281 χ^2/NDF : 43459.7/34

Out: -4310.334+/-28.392 χ^2/NDF : 62404.7/37

All: -4611.570+/-20.383 χ^2/NDF : 106096.6/7

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 ± 0.033 χ^2/NDF : 680283.1/16

Left Out: 134.548 ± 0.026 χ^2/NDF : 1270057.2/18

Right Out: 111.544 ± 0.031 χ^2/NDF : 765502.6/18

Left In: 136.271 ± 0.027 χ^2/NDF : 1289300.0/17

Left: 135.390 ± 0.019 χ^2/NDF : 2561485.2/36

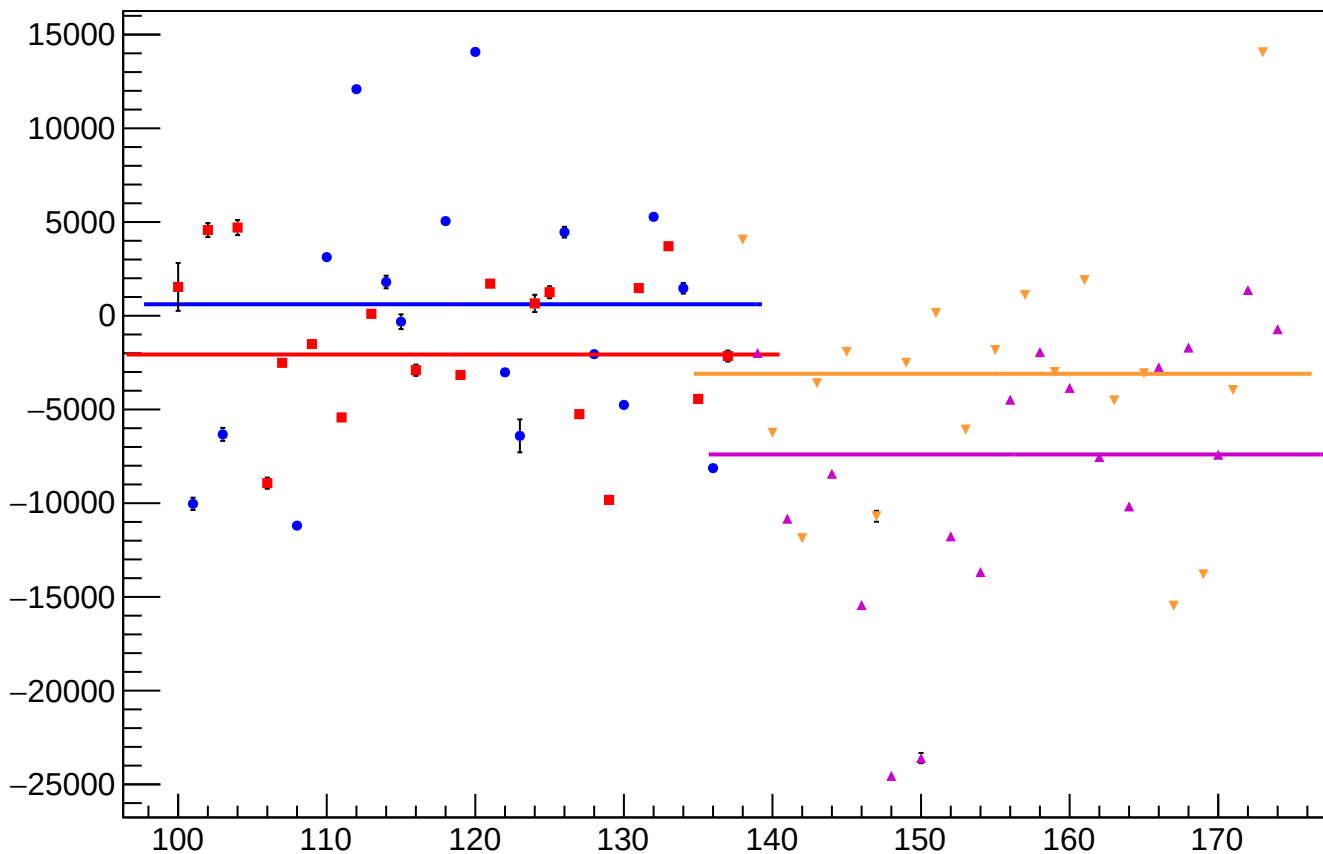
Right: 112.213 ± 0.023 χ^2/NDF : 1446732.2/35

In: 126.959 ± 0.021 χ^2/NDF : 2274097.4/34

Out: 125.160 ± 0.020 χ^2/NDF : 2352722.3/37

All: 126.032 ± 0.014 χ^2/NDF : 4630708.9/72

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -3096.337 ± 42.781 $\chi^2/\text{NDF}: 20596.0/18$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -7398.756 ± 44.563 $\chi^2/\text{NDF}: 18854.5/17$

Left: -5159.790 ± 30.862 $\chi^2/\text{NDF}: 44301.2/36$

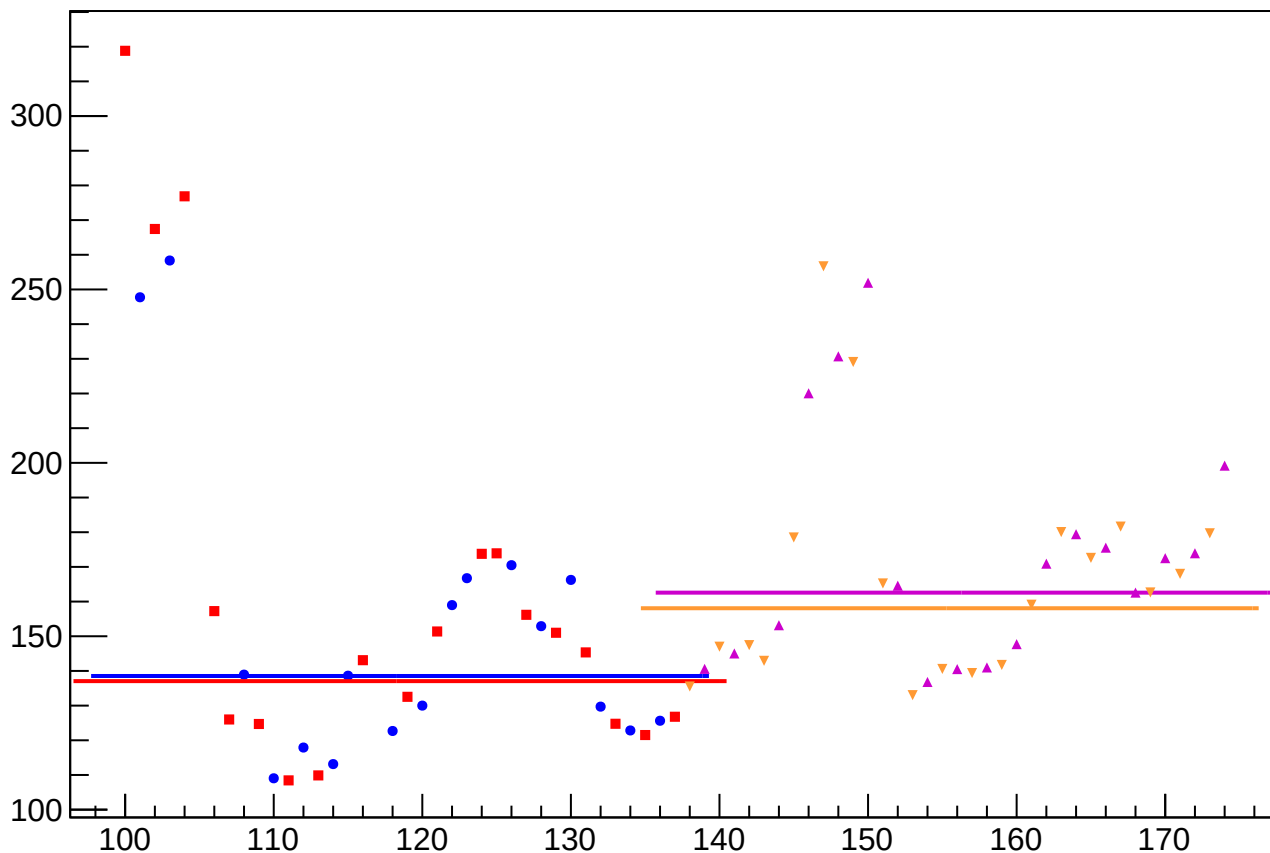
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4296.727 ± 34.885 $\chi^2/\text{NDF}: 49611.9/34$

Out: -2698.941 ± 33.516 $\chi^2/\text{NDF}: 25462.1/37$

All: -3465.881 ± 24.169 $\chi^2/\text{NDF}: 76164.9/72$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 158.077 $\pm$ 0.030 χ^2 /NDF: 688147.6/18

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 162.574 $\pm$ 0.032 χ^2 /NDF: 756875.6/17

Left: 160.234 $\pm$ 0.022 χ^2 /NDF: 1455623.7/36

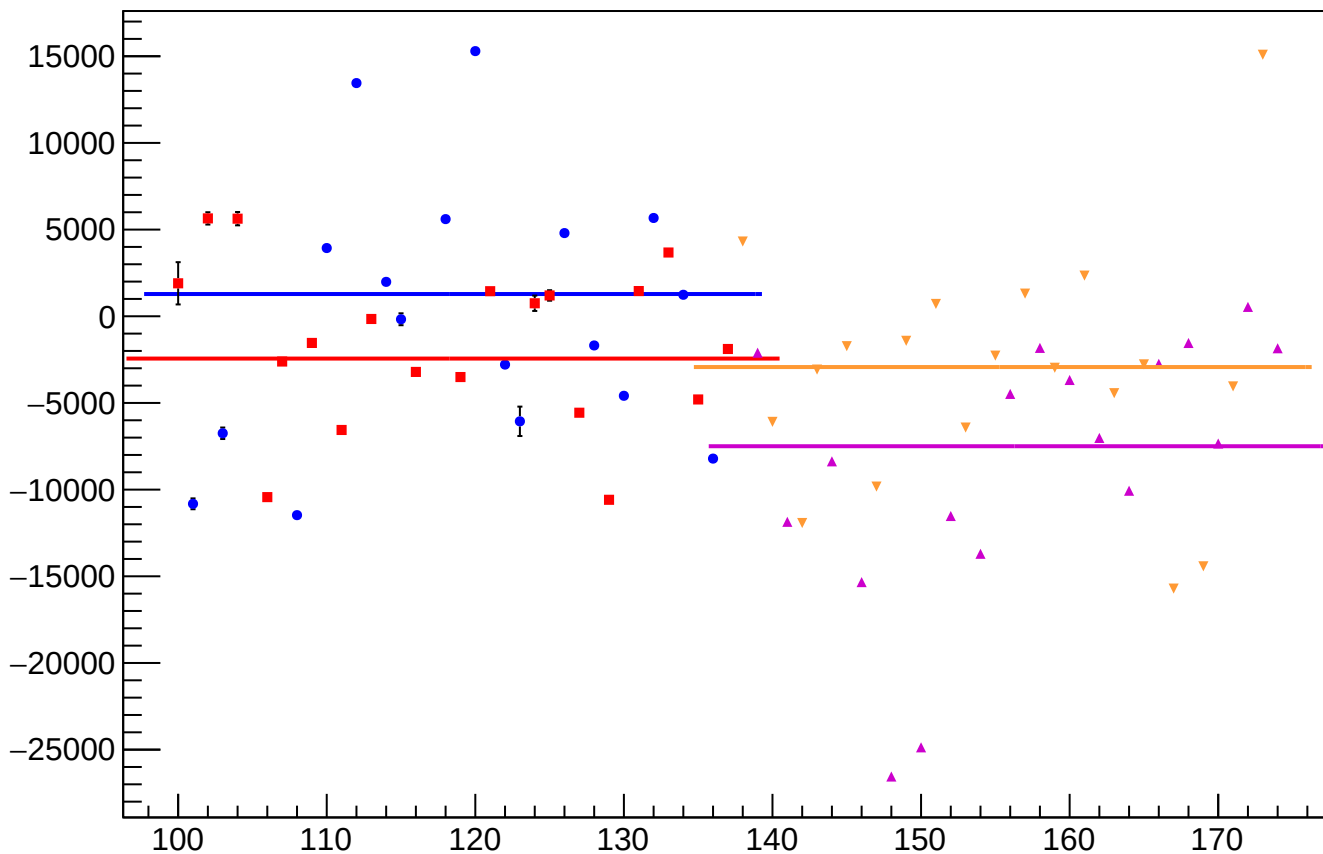
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 153.269 $\pm$ 0.025 χ^2 /NDF: 1651043.0/34

Out: 149.960 $\pm$ 0.024 χ^2 /NDF: 1630054.0/37

All: 151.548 $\pm$ 0.017 χ^2 /NDF: 3290453.5/72

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2929.533+/-38.380 χ^2/NDF : 26548.6/18

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -7497.051+/-40.160 χ^2/NDF : 23636.9/17

Left: -5109.847+/-27.747 χ^2/NDF : 56945.9/36

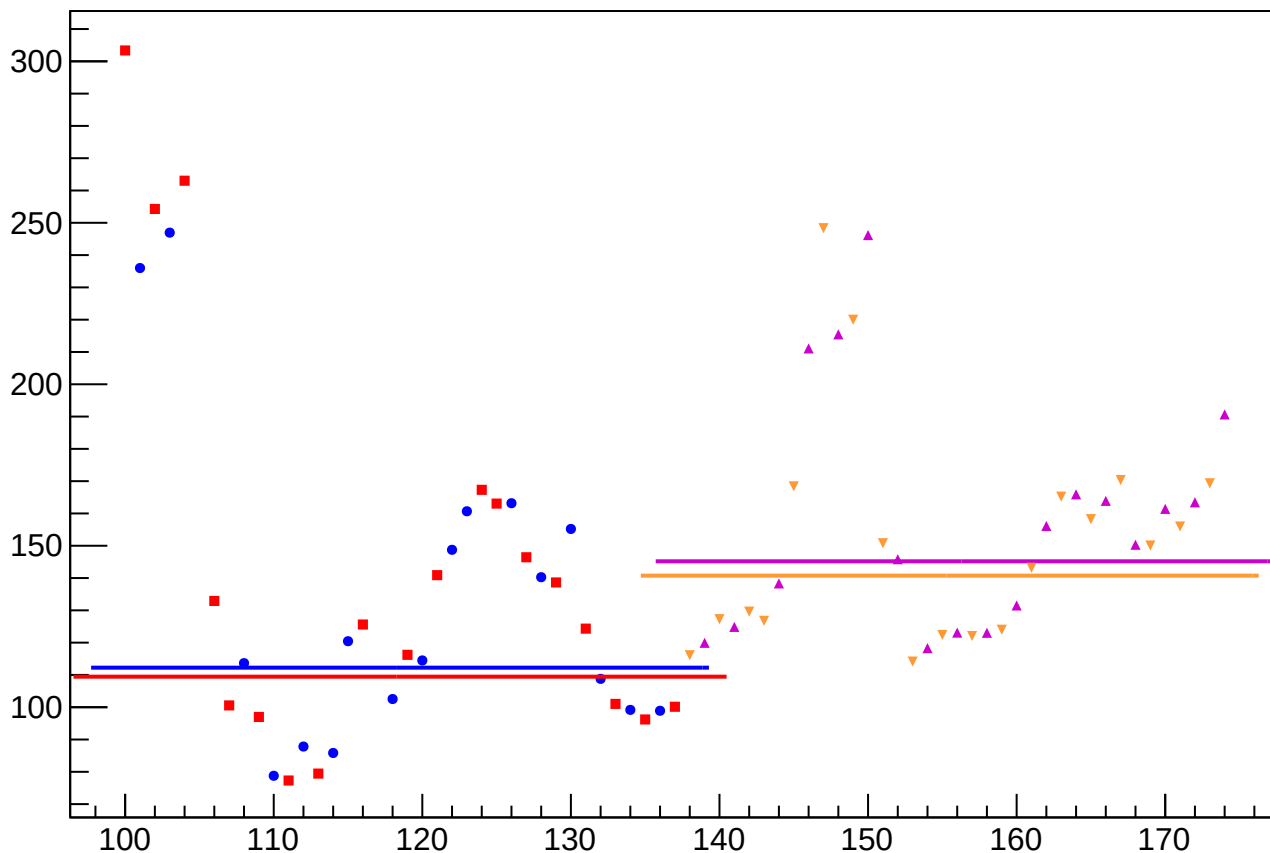
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3752.604+/-30.414 χ^2/NDF : 74561.8/34

Out: -2719.670+/-29.004 χ^2/NDF : 34295.8/37

All: -3211.639+/-20.990 χ^2/NDF : 109461.7/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 140.745+/-0.027 χ^2/NDF :993229.5/18

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 145.189+/-0.028 χ^2/NDF :1077498.2/17

Left: 142.867+/-0.020 χ^2/NDF : 2083529.9/36

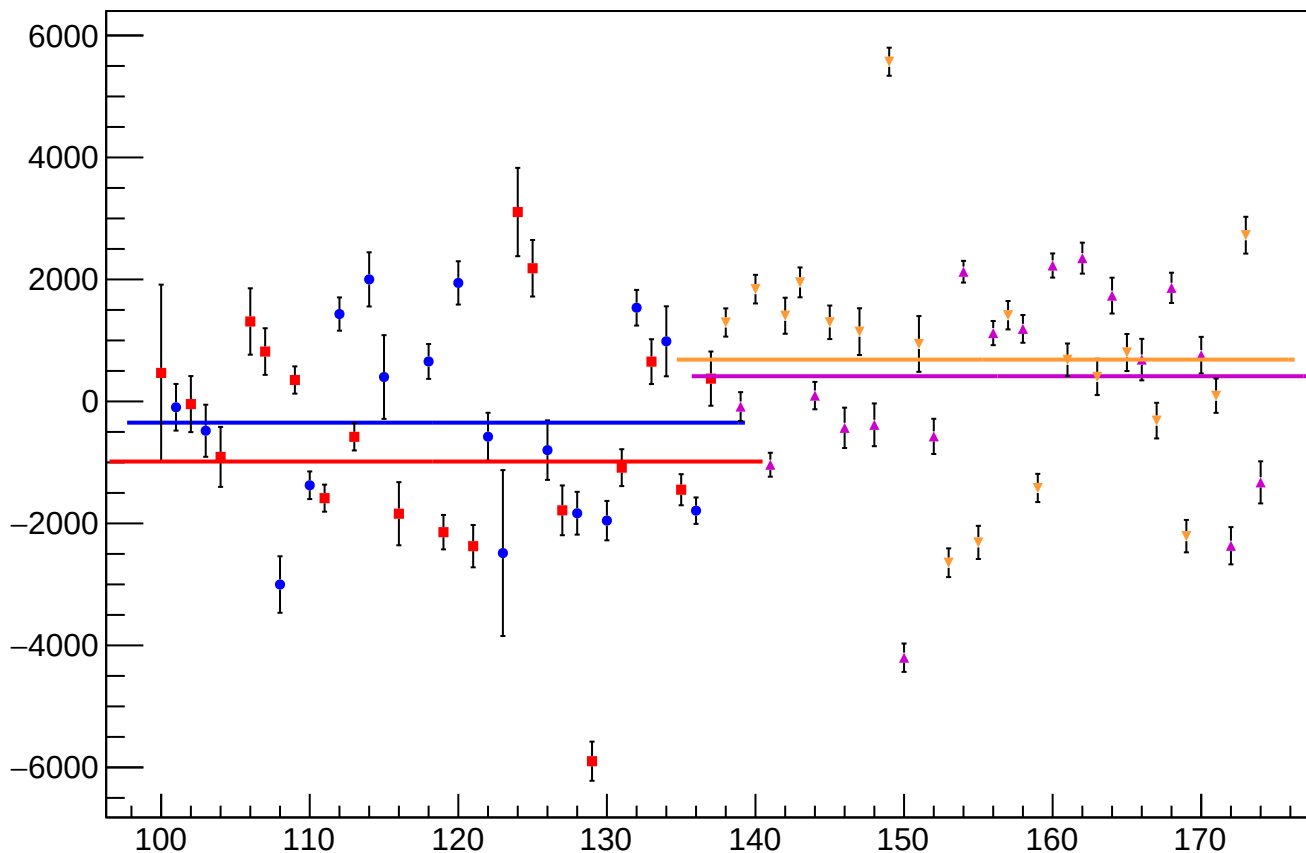
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 131.142+/-0.022 χ^2/NDF :2776815.8/34

Out: 127.326+/-0.021 χ^2/NDF :2832842.5/37

All: 129.144+/-0.015 χ^2/NDF : 5626145.7/72

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 ± 83.826 $\chi^2/\text{NDF}: 317.3/16$

Left Out: 685.898 ± 61.657 $\chi^2/\text{NDF}: 1115.3/18$

Right Out: -985.242 ± 77.683 $\chi^2/\text{NDF}: 476.6/18$

Left In: 413.040 ± 58.166 $\chi^2/\text{NDF}: 901.9/17$

Left: 541.524 ± 42.310 $\chi^2/\text{NDF}: 2027.6/36$

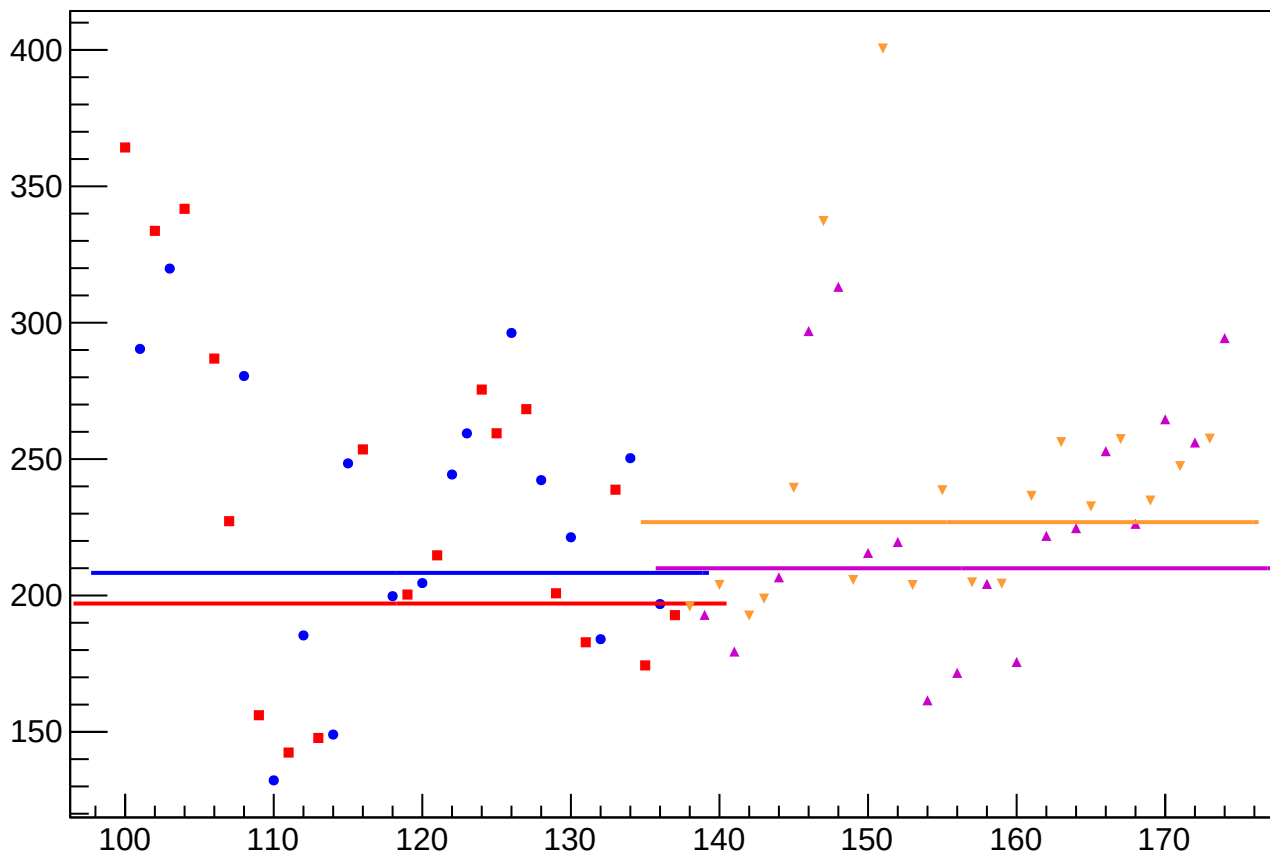
Right: -690.850 ± 56.978 $\chi^2/\text{NDF}: 824.9/35$

In: 165.687 ± 47.788 $\chi^2/\text{NDF}: 1274.9/34$

Out: 40.018 ± 48.294 $\chi^2/\text{NDF}: 1875.8/37$

All: 103.515 ± 33.969 $\chi^2/\text{NDF}: 3154.1/72$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 226.885+/-0.044 χ^2/NDF : 720695.3/18

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 209.970+/-0.041 χ^2/NDF : 939850.8/17

Left: 217.935+/-0.030 χ^2/NDF : 1740190.7/36

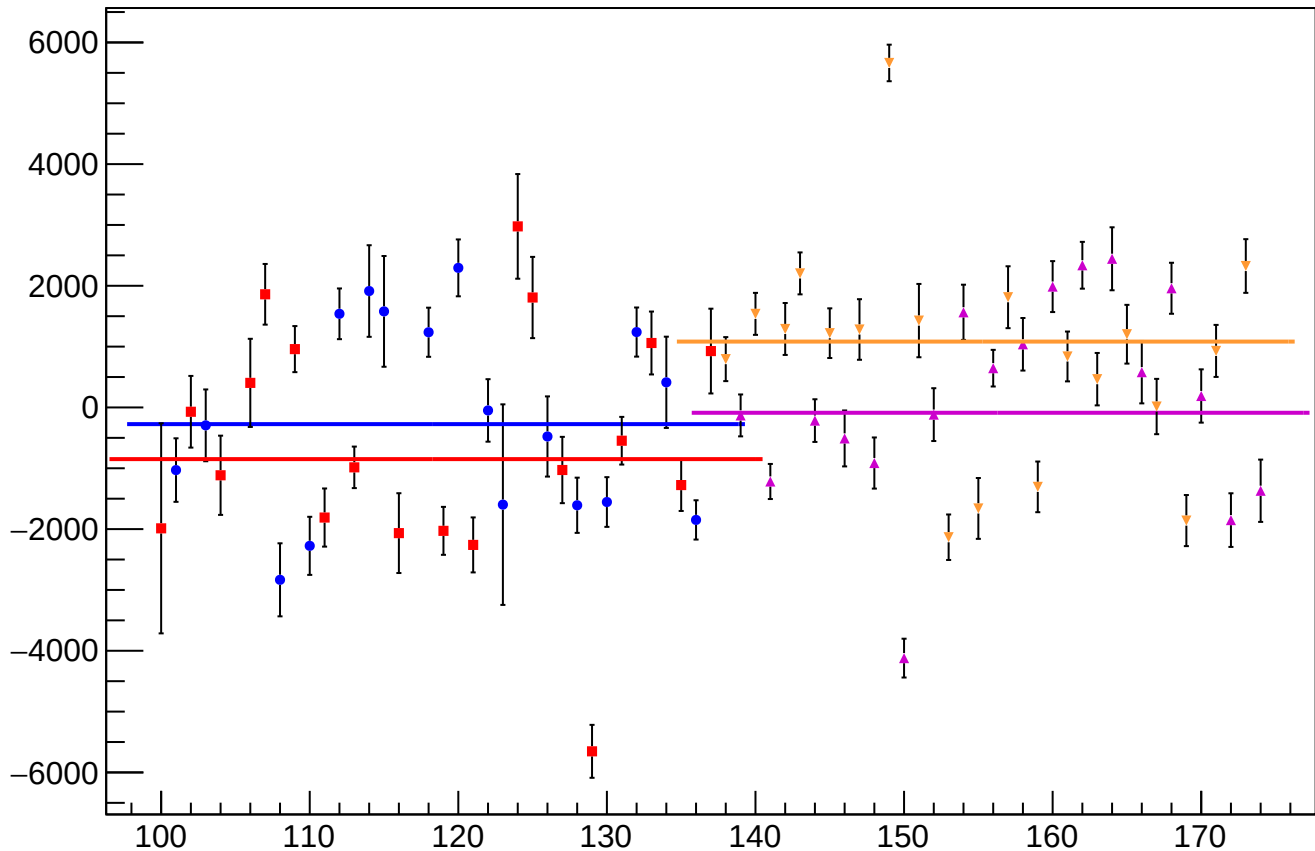
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 209.423+/-0.034 χ^2/NDF : 1638885.9/34

Out: 215.355+/-0.034 χ^2/NDF : 1828462.9/37

All: 212.358+/-0.024 χ^2/NDF : 3482591.3/72

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260±/121.326 χ^2/NDF : 171.6/16

Left Out: 1082.739±/94.781 χ^2/NDF : 450.3/18

Right Out: -849.413±/115.349 χ^2/NDF : 263.3/18

Left In: -87.633±/93.173 χ^2/NDF : 342.3/17

Left: 487.545±/66.445 χ^2/NDF : 870.1/36

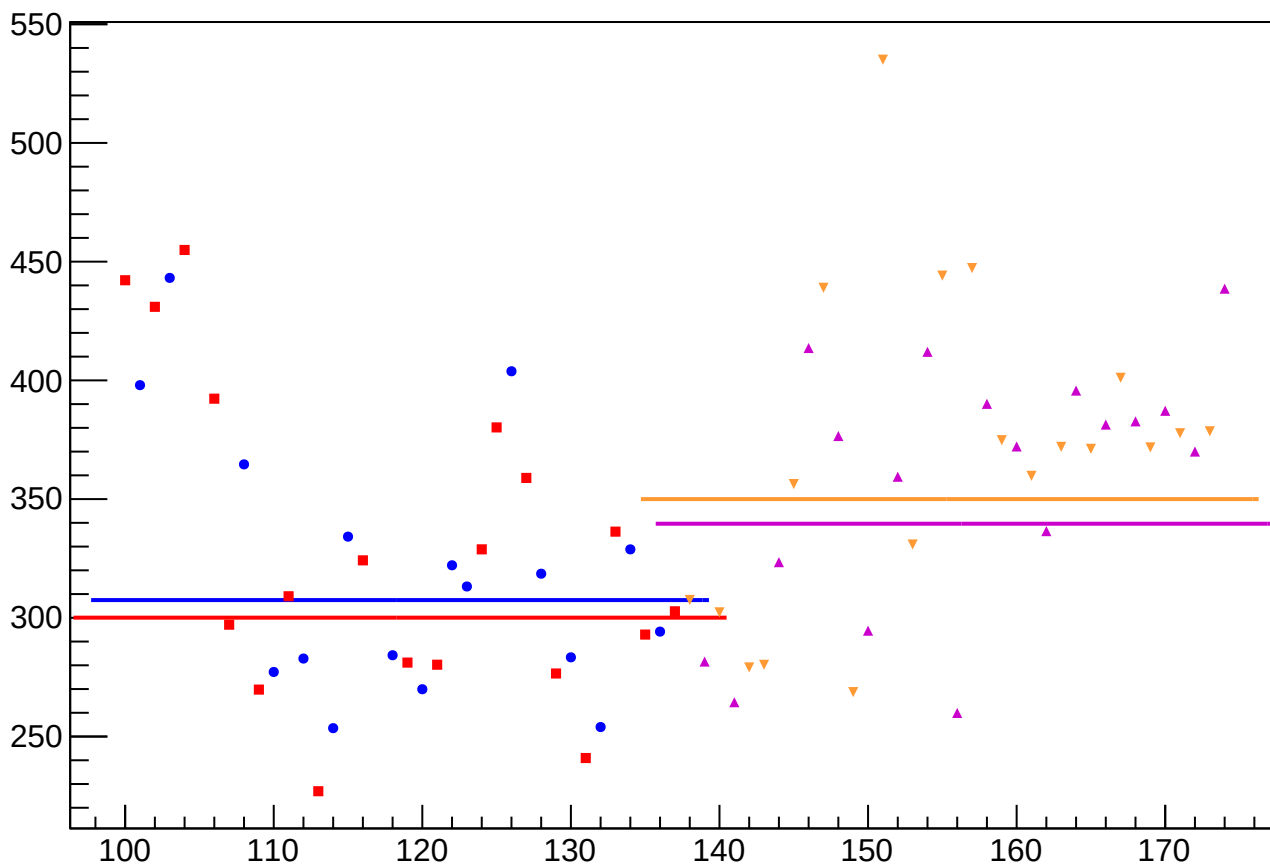
Right: -576.352±/83.597 χ^2/NDF : 446.6/35

In: -156.867±/73.897 χ^2/NDF : 515.4/34

Out: 303.994±/73.230 χ^2/NDF : 881.0/37

All: 75.651±/52.016 χ^2/NDF : 1416.0/72

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 349.998 $\pm$ 0.067 χ^2 /NDF: 816190.4/18

Right Out: 300.069 $\pm$ 0.082 χ^2 /NDF: 490398.9/18

Left In: 339.626 $\pm$ 0.066 χ^2 /NDF: 704450.1/17

Left: 344.723 $\pm$ 0.047 χ^2 /NDF: 1532821.1/36

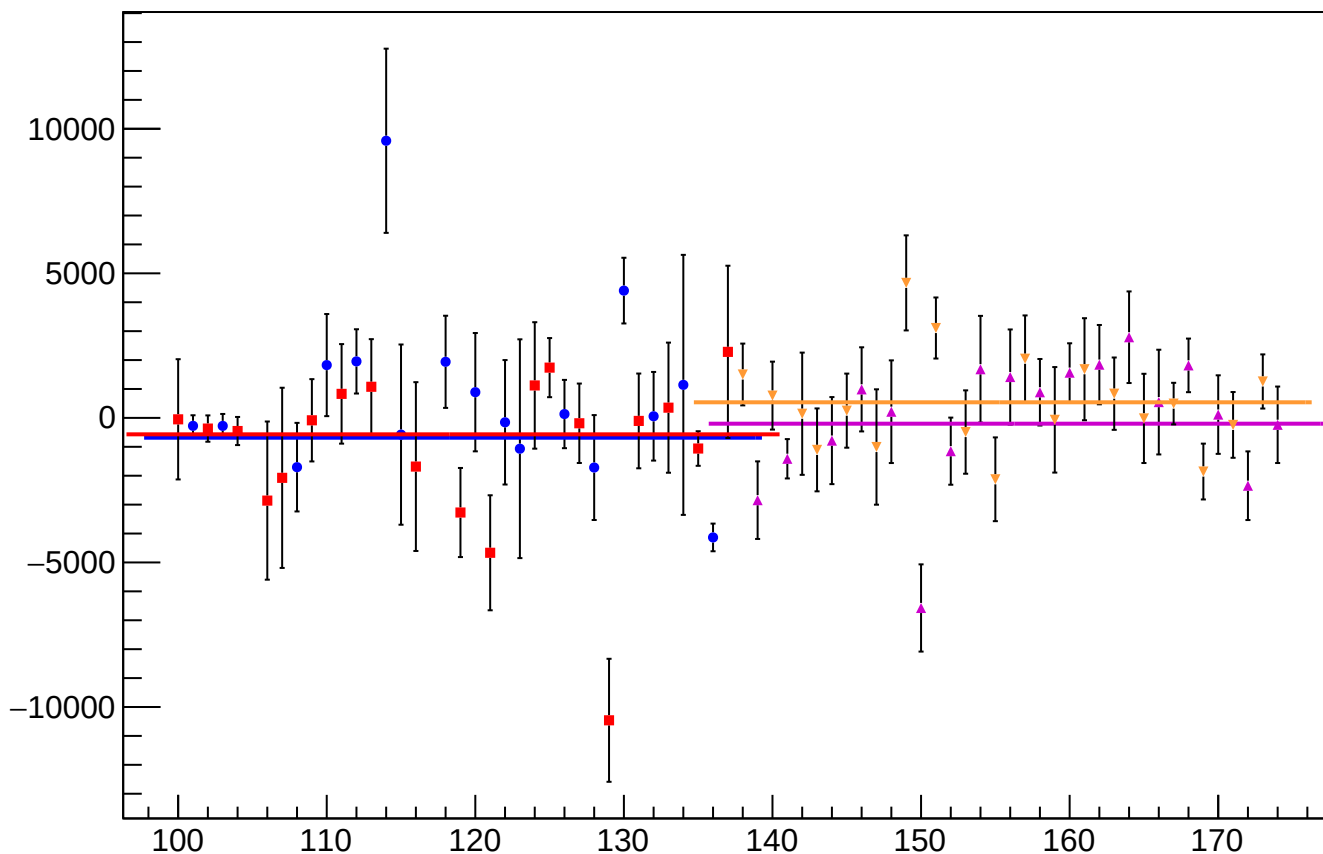
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 327.696 $\pm$ 0.052 χ^2 /NDF: 1115929.2/34

Out: 329.875 $\pm$ 0.052 χ^2 /NDF: 1530277.2/37

All: 328.795 $\pm$ 0.037 χ^2 /NDF: 2647083.3/72

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 539.419 $\pm$ 283.522 χ^2/NDF : 27.9/18

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -200.670 $\pm$ 291.924 χ^2/NDF : 46.4/17

Left: 180.178 $\pm$ 203.386 χ^2/NDF : 77.6/36

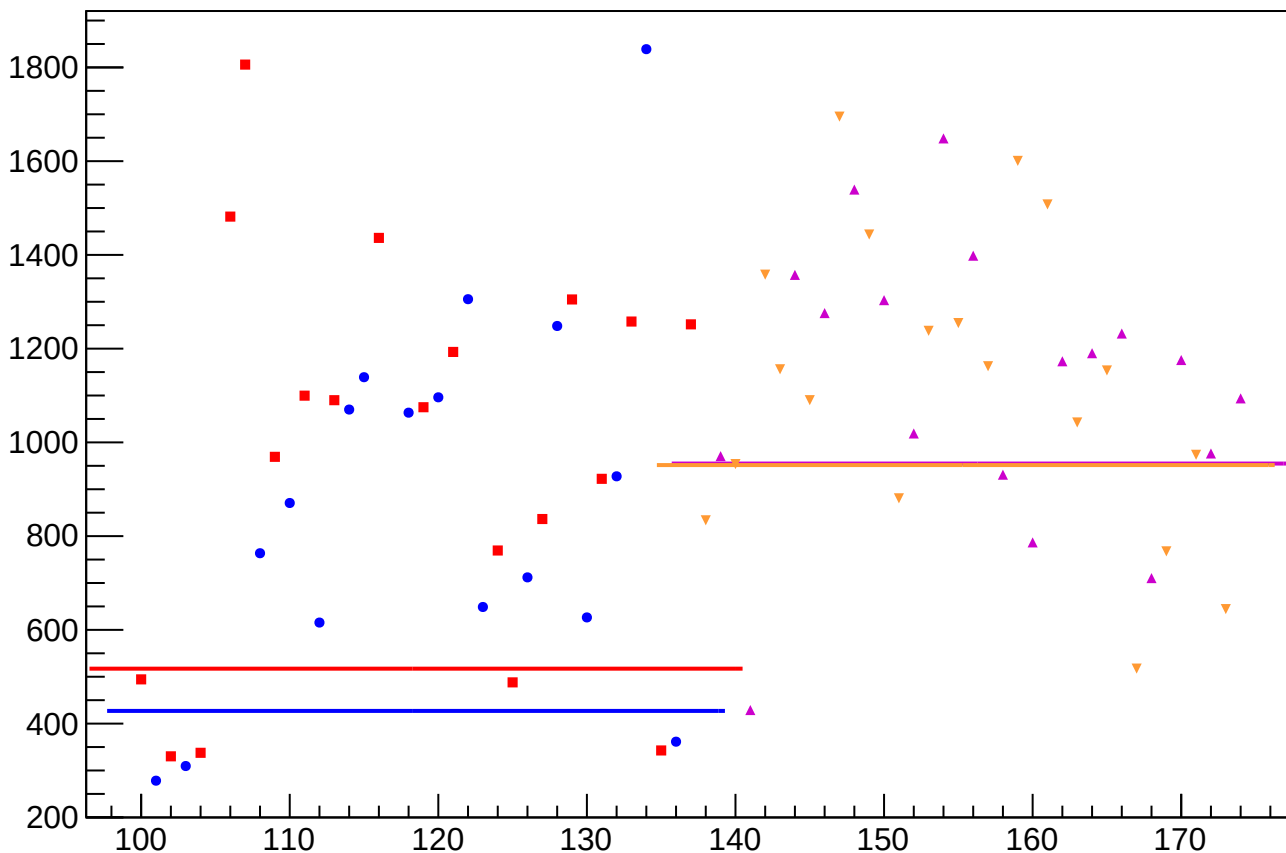
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -519.520 $\pm$ 170.656 χ^2/NDF : 145.6/34

Out: -98.834 $\pm$ 184.615 χ^2/NDF : 76.4/37

All: -325.682 $\pm$ 125.317 χ^2/NDF : 224.8/72

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 951.589+/-0.200 χ^2/NDF :2348365.7/18

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 954.840+/-0.206 χ^2/NDF :2604323.2/17

Left: 953.167+/-0.144 χ^2/NDF : 4952816.6/36

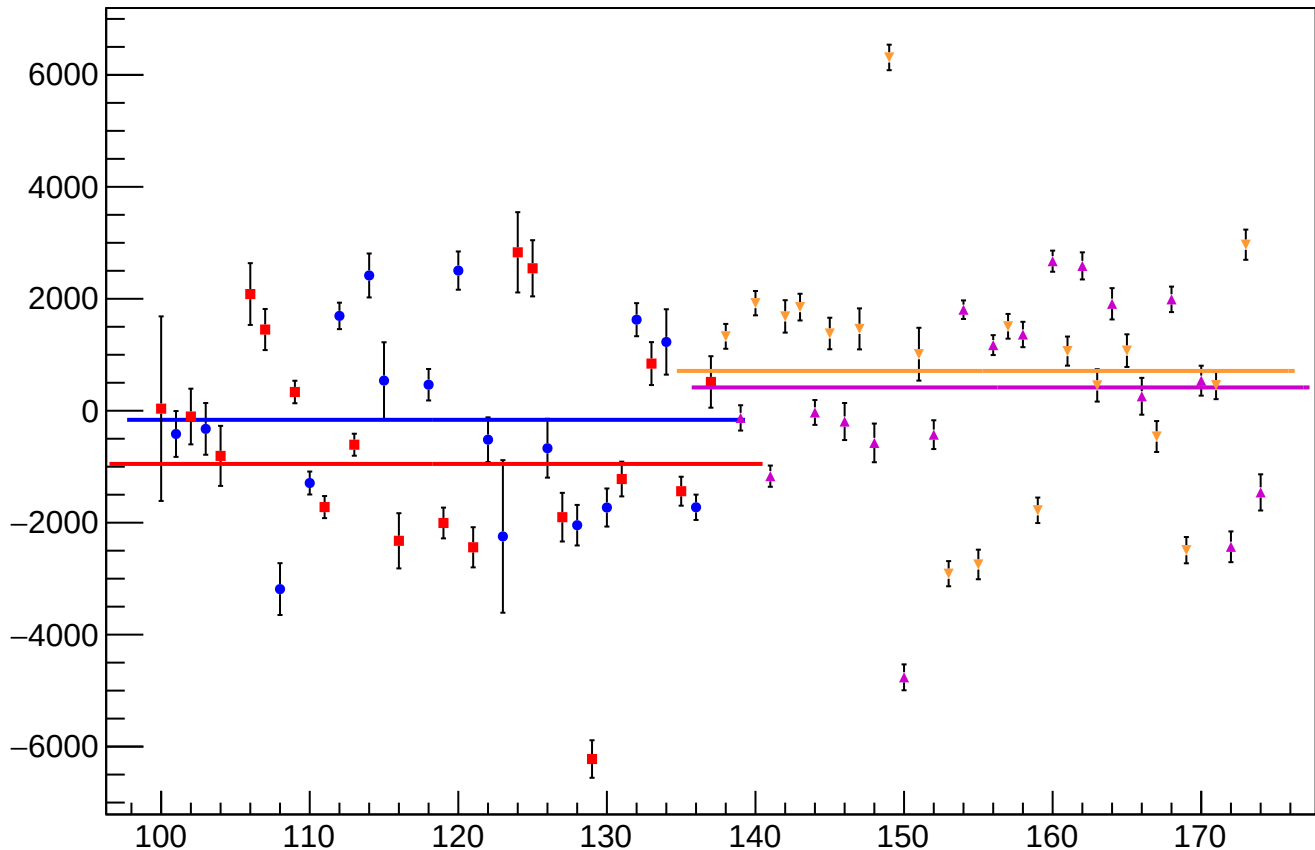
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 607.438+/-0.121 χ^2/NDF :9772868.8/34

Out: 701.399+/-0.131 χ^2/NDF :8657245.6/37

All: 650.732+/-0.089 χ^2/NDF : 18709472.5/72

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 711.490 ± 58.937 χ^2/NDF : 1528.5/18

Right Out: -950.093 ± 75.133 χ^2/NDF : 539.8/18

Left In: 416.264 ± 55.077 χ^2/NDF : 1149.6/17

Left: 553.894 ± 40.240 χ^2/NDF : 2691.5/36

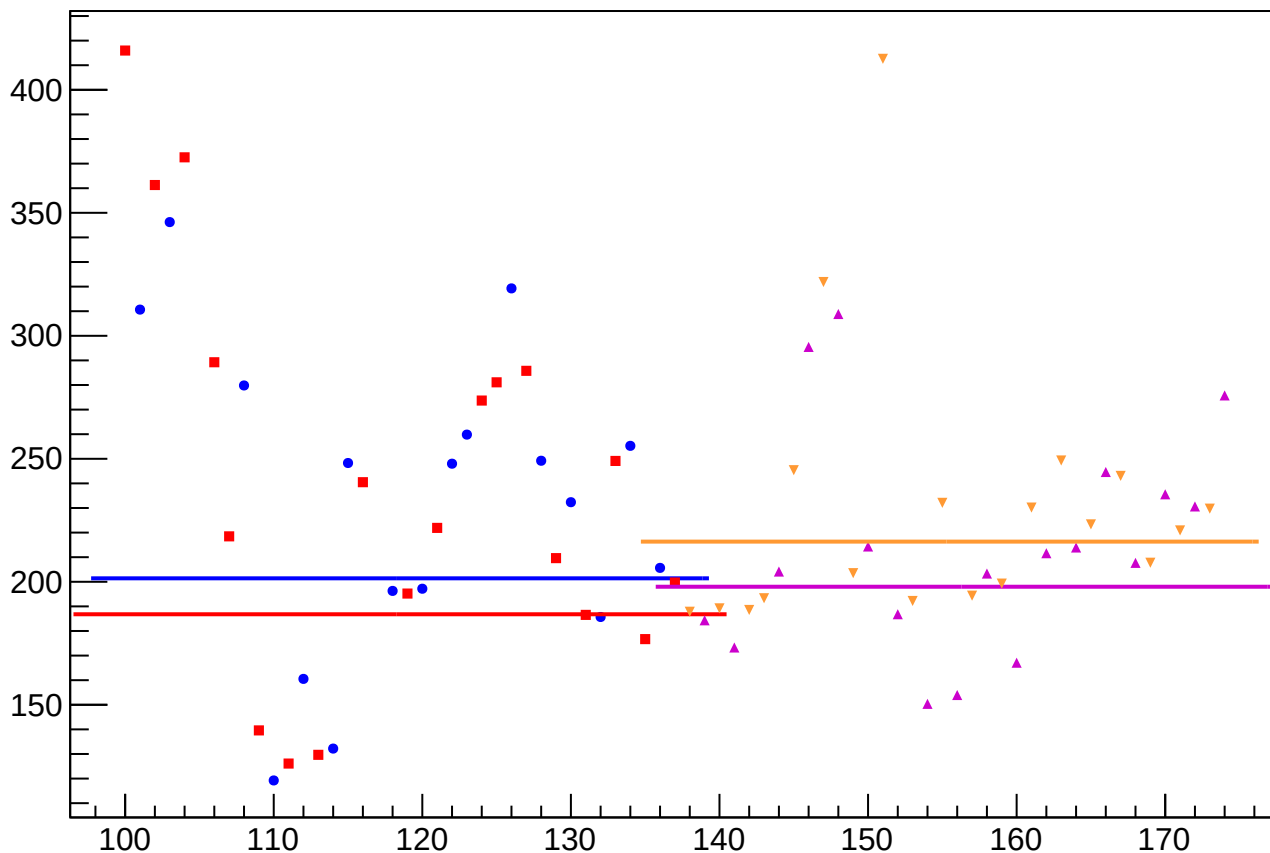
Right: -592.238 ± 55.504 χ^2/NDF : 977.3/35

In: 237.442 ± 45.781 χ^2/NDF : 1571.2/34

Out: 78.543 ± 46.372 χ^2/NDF : 2371.1/37

All: 159.011 ± 32.579 χ^2/NDF : 3948.3/72

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2/NDF : 1056022.1/16

Left Out: 216.335 $\pm$ 0.042 χ^2/NDF : 761496.6/18

Right Out: 186.797 $\pm$ 0.053 χ^2/NDF : 1393162.0/18

Left In: 197.990 $\pm$ 0.039 χ^2/NDF : 1017973.5/17

Left: 206.542 $\pm$ 0.028 χ^2/NDF : 1882908.2/36

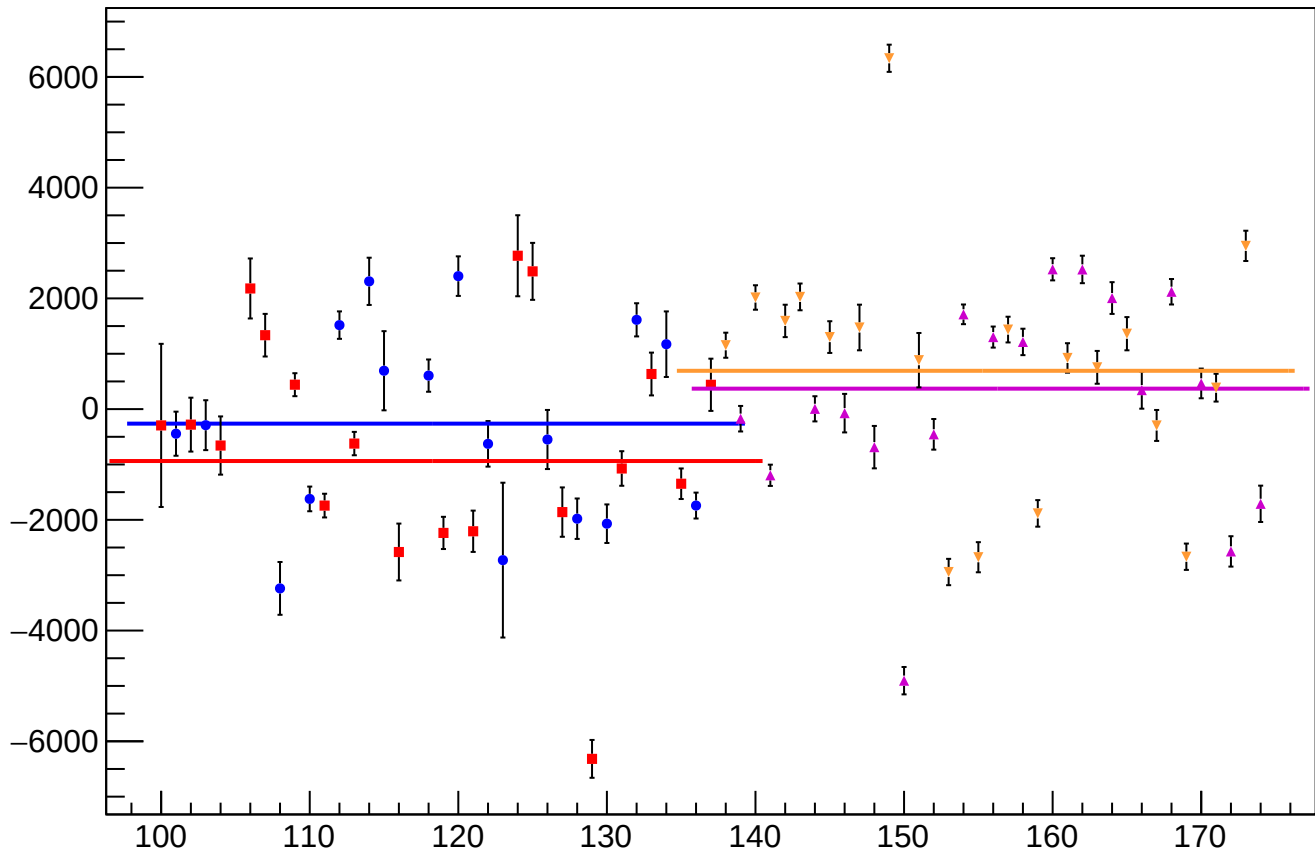
Right: 193.435 $\pm$ 0.039 χ^2/NDF : 2483546.7/35

In: 199.047 $\pm$ 0.032 χ^2/NDF : 2076378.0/34

Out: 205.083 $\pm$ 0.033 χ^2/NDF : 2346017.6/37

All: 202.026 $\pm$ 0.023 χ^2/NDF : 4439558.1/72

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 692.112+/-60.750 χ^2/NDF :1416.0/18

Right Out: -937.678+/-78.434 χ^2/NDF : 521.9/18

Left In: 369.548+/-57.341 χ^2/NDF :1077.3/17

Left: 521.526+/-41.699 χ^2/NDF : 2508.3/36

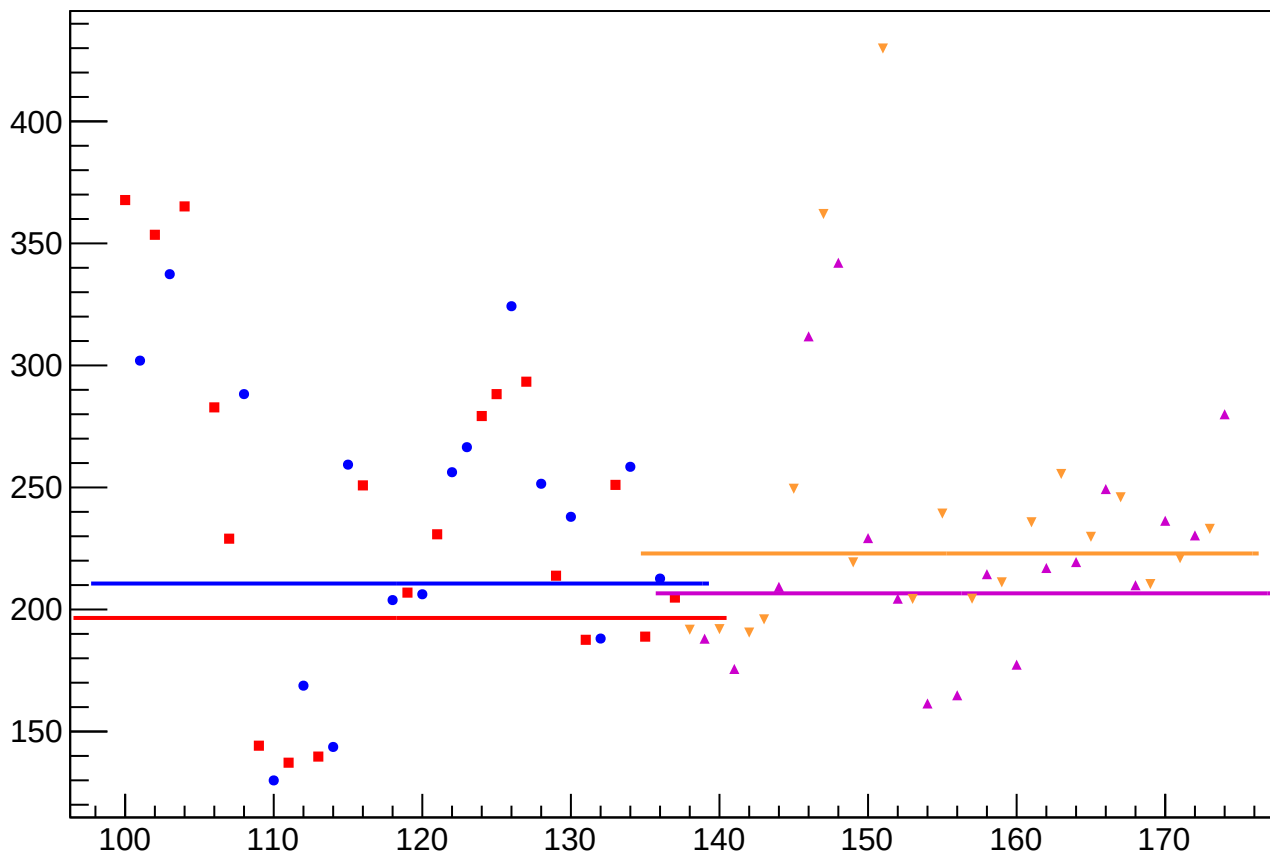
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 173.305+/-47.611 χ^2/NDF :1483.8/34

Out: 80.999+/-48.029 χ^2/NDF :2207.8/37

All: 127.555+/-33.813 χ^2/NDF : 3693.5/72

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 222.949+/-0.043 χ^2/NDF : 815737.2/18

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 206.616+/-0.041 χ^2/NDF : 965204.5/17

Left: 214.312+/-0.029 χ^2/NDF : 1857394.1/36

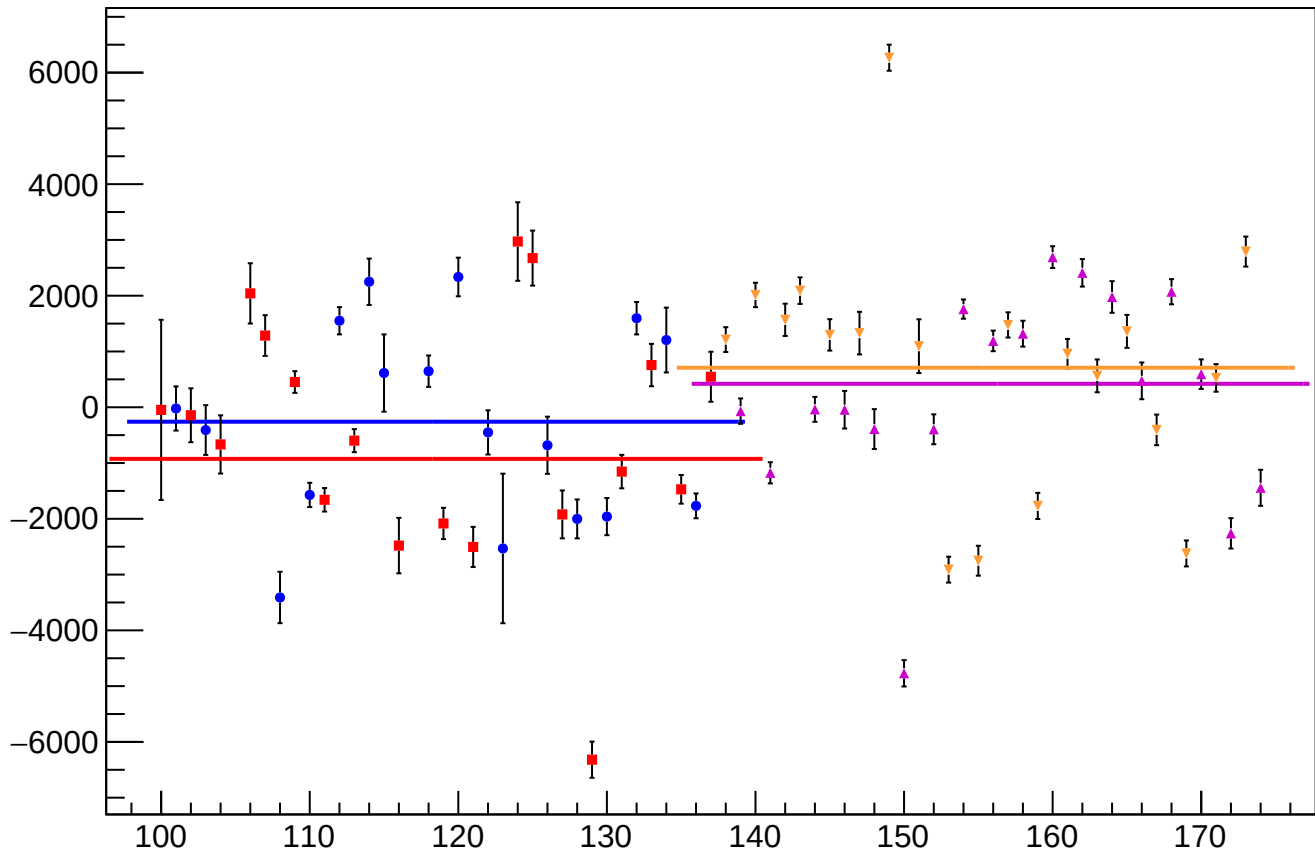
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 207.865+/-0.034 χ^2/NDF : 1844033.0/34

Out: 213.042+/-0.034 χ^2/NDF : 2162677.0/37

All: 210.431+/-0.024 χ^2/NDF : 4018433.0/72

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139 ± 82.802 χ^2/NDF : 391.2/16

Left Out: 708.963 ± 59.531 χ^2/NDF : 1476.3/18

Right Out: -925.534 ± 75.503 χ^2/NDF : 581.9/18

Left In: 420.485 ± 56.027 χ^2/NDF : 1085.5/17

Left: 555.986 ± 40.800 χ^2/NDF : 2574.3/36

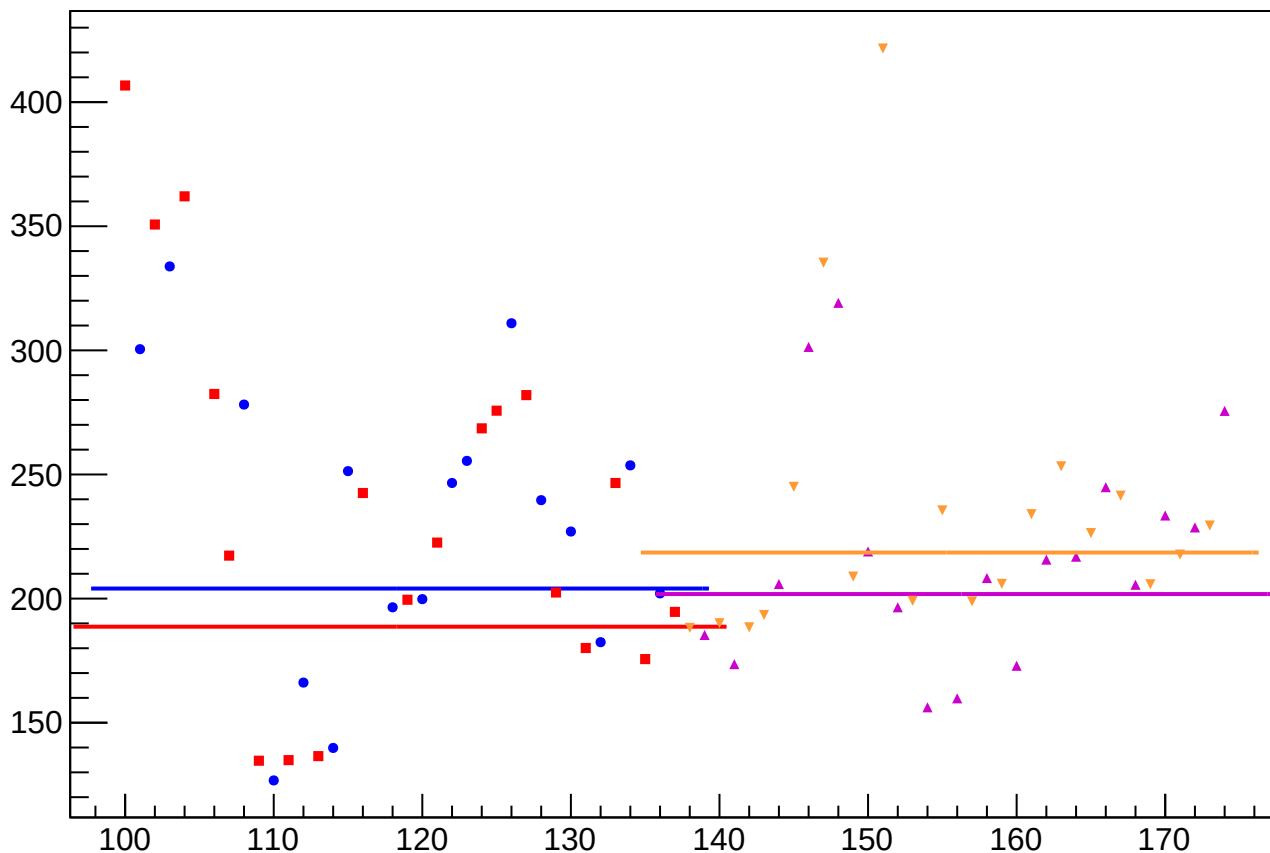
Right: -622.995 ± 55.791 χ^2/NDF : 1008.5/35

In: 207.045 ± 46.403 χ^2/NDF : 1523.0/34

Out: 82.385 ± 46.748 χ^2/NDF : 2347.1/37

All: 145.177 ± 32.933 χ^2/NDF : 3873.7/72

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 218.550+/-0.042 χ^2/NDF : 780646.0/18

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 201.828+/-0.040 χ^2/NDF : 945434.2/17

Left: 209.682+/-0.029 χ^2/NDF : 1809764.7/36

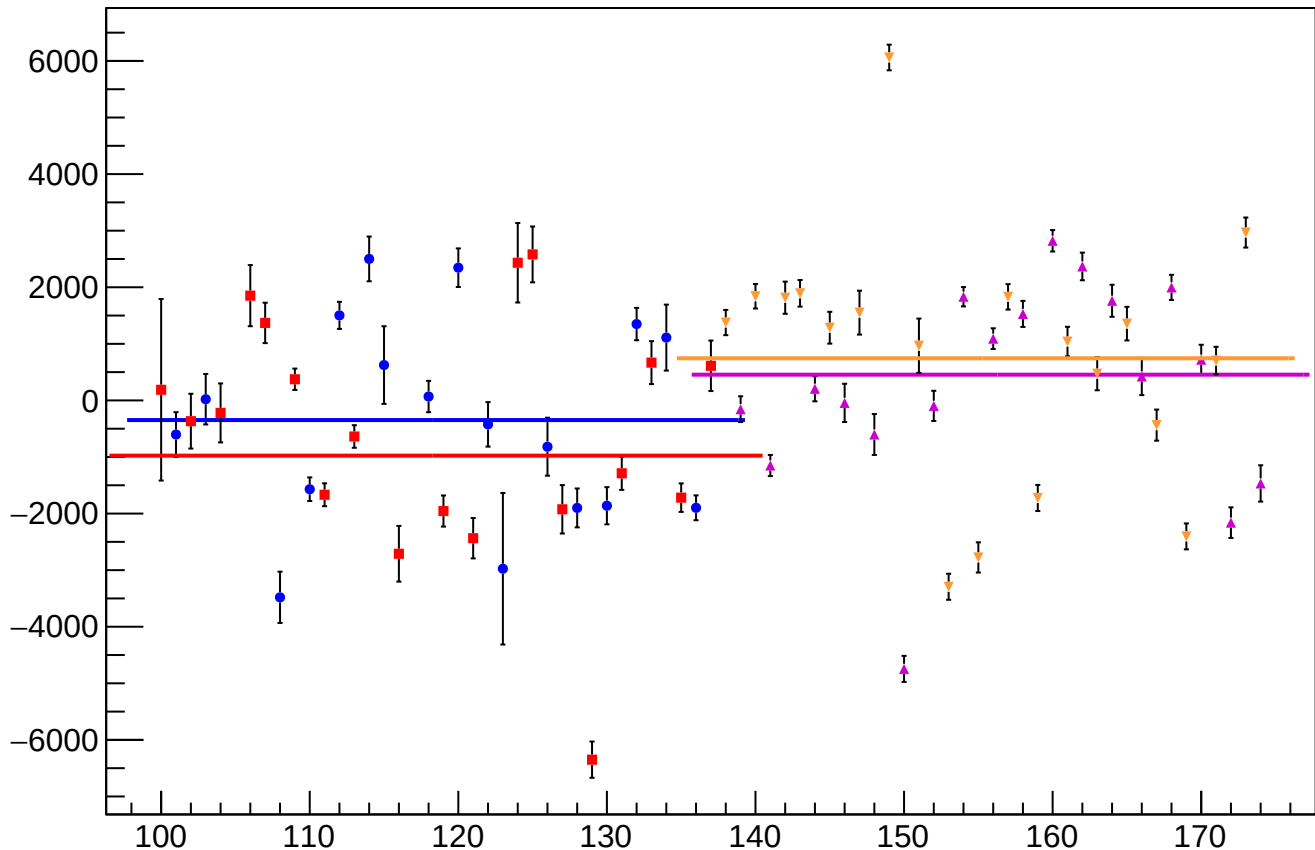
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 202.526+/-0.033 χ^2/NDF : 1814846.3/34

Out: 207.100+/-0.033 χ^2/NDF : 2224770.0/37

All: 204.796+/-0.023 χ^2/NDF : 4049258.7/72

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 745.015 ± 58.969 χ^2/NDF : 1533.2/18

Right Out: -976.286 ± 73.889 χ^2/NDF : 585.7/18

Left In: 455.002 ± 55.496 χ^2/NDF : 1123.7/17

Left: 591.219 ± 40.414 χ^2/NDF : 2669.7/36

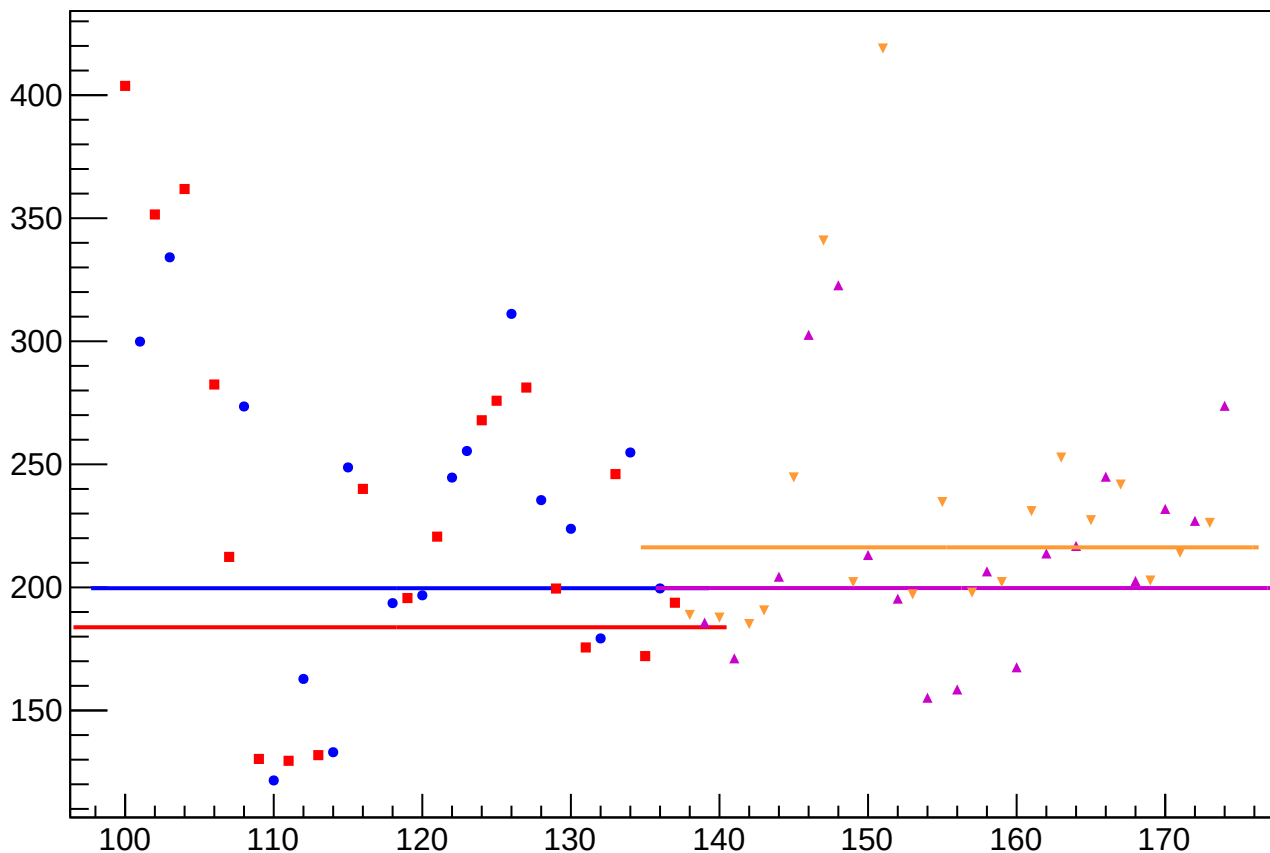
Right: -691.802 ± 54.685 χ^2/NDF : 1017.5/35

In: 200.083 ± 45.839 χ^2/NDF : 1589.1/34

Out: 75.263 ± 46.090 χ^2/NDF : 2450.5/37

All: 138.014 ± 32.501 χ^2/NDF : 4043.3/72

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 216.273 $\pm$ 0.042 χ^2 /NDF: 816423.2/18

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 199.734 $\pm$ 0.039 χ^2 /NDF: 984359.8/17

Left: 207.502 $\pm$ 0.029 χ^2 /NDF: 1884216.3/36

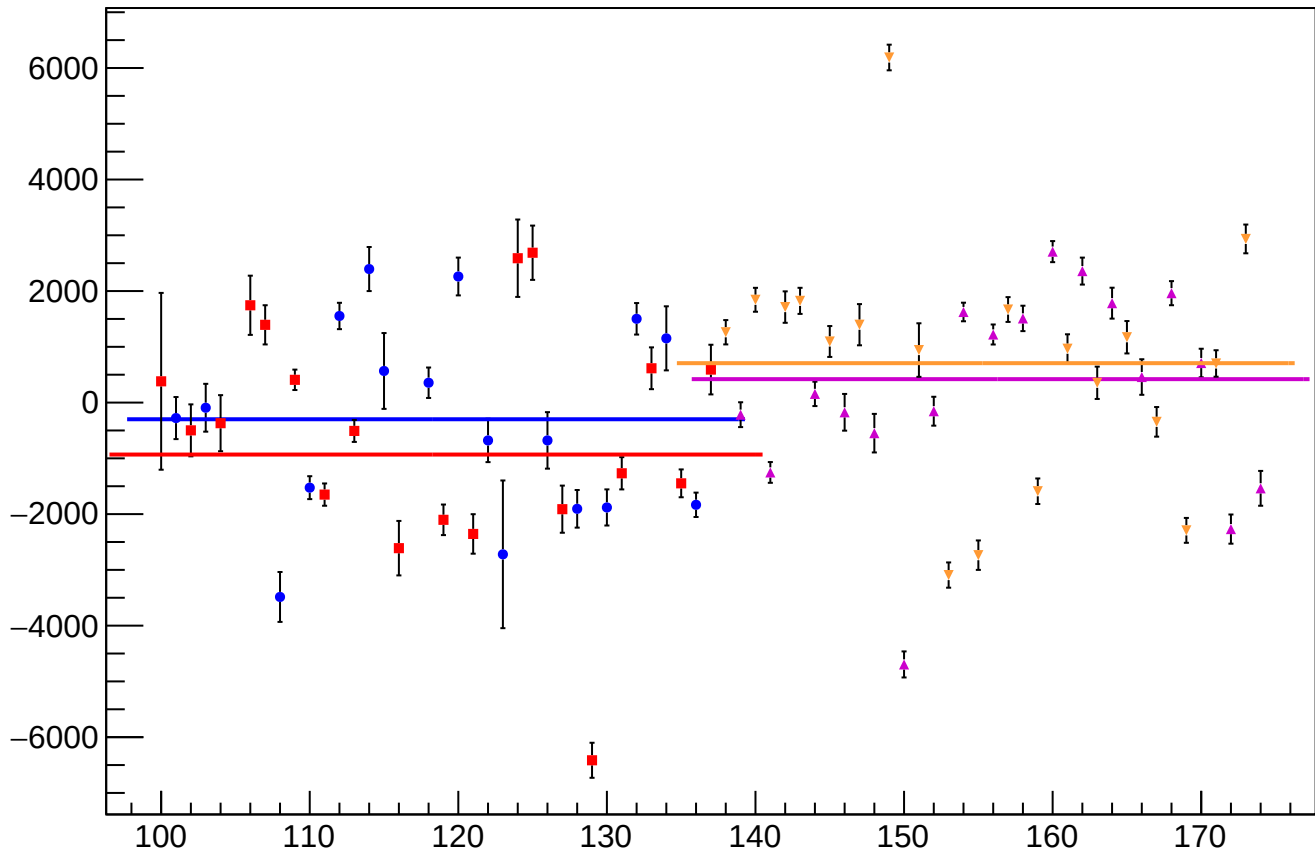
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 199.713 $\pm$ 0.032 χ^2 /NDF: 1927515.8/34

Out: 203.641 $\pm$ 0.033 χ^2 /NDF: 2401910.8/37

All: 201.666 $\pm$ 0.023 χ^2 /NDF: 4336728.7/72

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963±/80.162 χ^2/NDF : 406.6/16

Left Out: 706.826±/58.115 χ^2/NDF :1490.4/18

Right Out: -931.843±/72.751 χ^2/NDF : 614.8/18

Left In: 420.274±/54.509 χ^2/NDF :1112.9/17

Left: 554.386±/39.757 χ^2/NDF : 2616.3/36

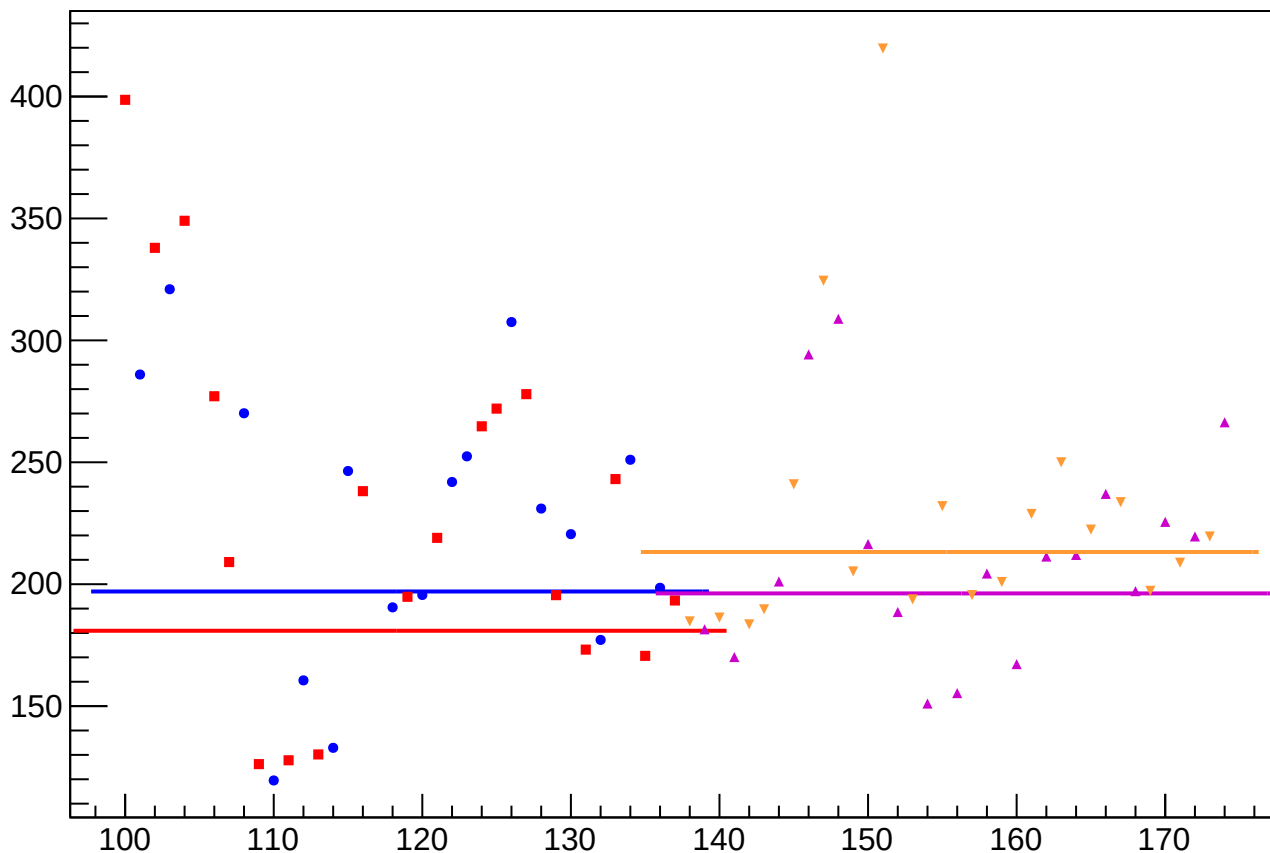
Right: -646.004±/53.873 χ^2/NDF : 1055.6/35

In: 192.861±/45.075 χ^2/NDF :1574.6/34

Out: 68.497±/45.406 χ^2/NDF :2414.9/37

All: 131.134±/31.989 χ^2/NDF : 3993.2/72

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 213.217+/-0.041 χ^2/NDF : 790261.4/18

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 196.225+/-0.039 χ^2/NDF : 945820.0/17

Left: 204.178+/-0.028 χ^2/NDF : 1827048.8/36

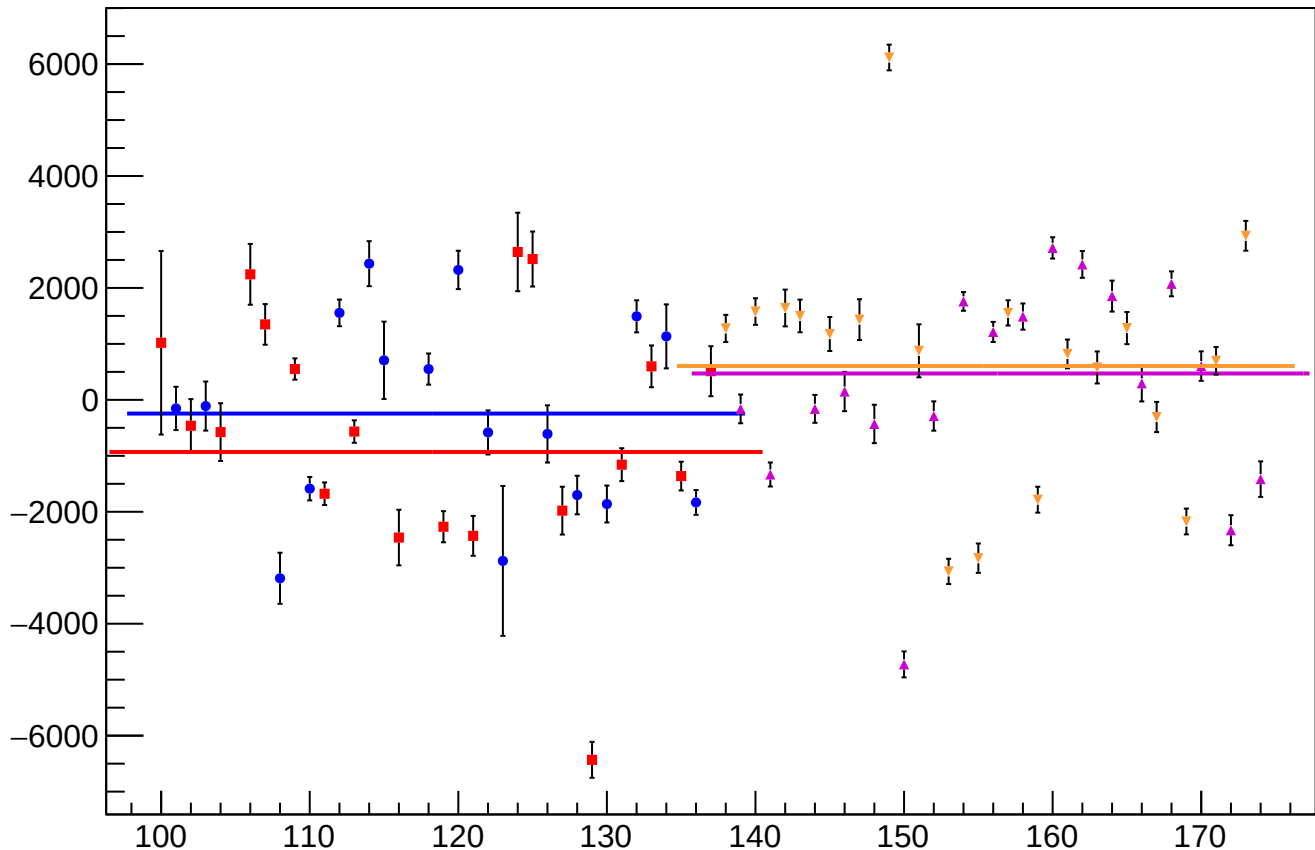
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 196.474+/-0.032 χ^2/NDF : 1857876.0/34

Out: 200.631+/-0.032 χ^2/NDF : 2376783.8/37

All: 198.537+/-0.023 χ^2/NDF : 4243102.0/72

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 $\pm$ 81.395 χ^2/NDF : 391.4/16

Left Out: 604.480 $\pm$ 60.564 χ^2/NDF :1429.6/18

Right Out: -931.272 $\pm$ 74.206 χ^2/NDF : 609.7/18

Left In: 471.253 $\pm$ 56.446 χ^2/NDF :1121.3/17

Left: 533.183 $\pm$ 41.292 χ^2/NDF : 2553.5/36

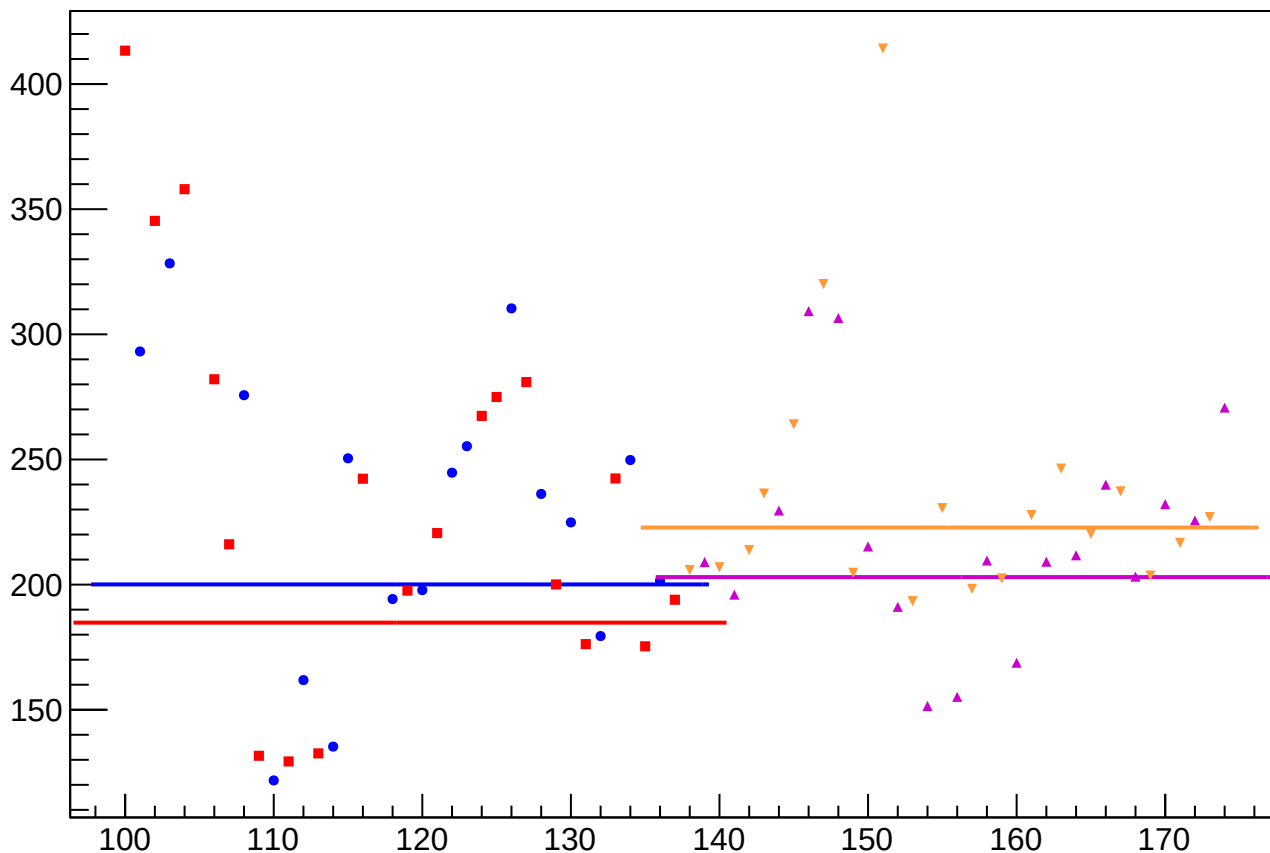
Right: -619.742 $\pm$ 54.837 χ^2/NDF : 1040.0/35

In: 238.680 $\pm$ 46.384 χ^2/NDF :1565.0/34

Out: -9.521 $\pm$ 46.920 χ^2/NDF :2296.4/37

All: 116.007 $\pm$ 32.986 χ^2/NDF : 3875.5/72

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 222.806 $\pm$ 0.043 χ^2 /NDF: 653677.1/18

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 203.005 $\pm$ 0.040 χ^2 /NDF: 958815.9/17

Left: 212.210 $\pm$ 0.029 χ^2 /NDF: 1726898.8/36

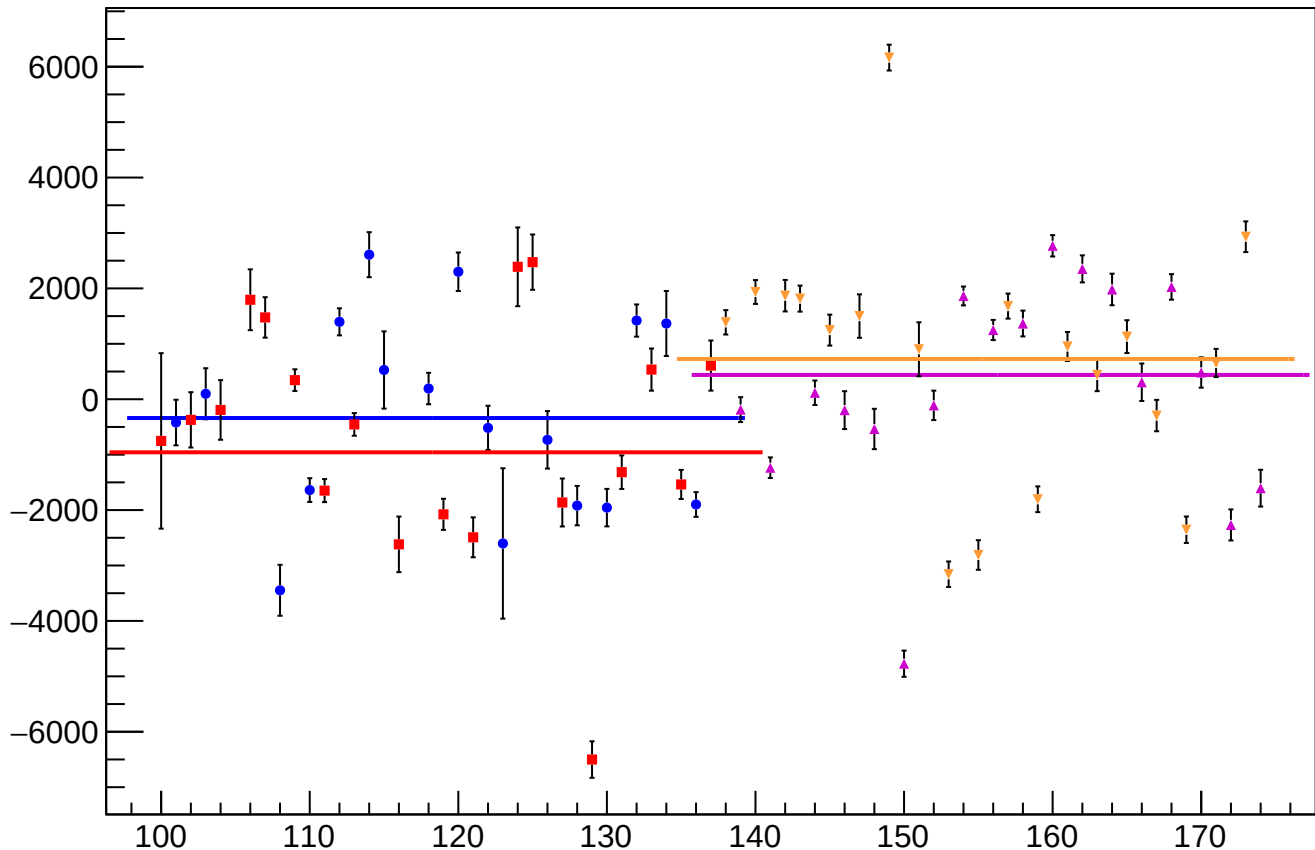
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 202.055 $\pm$ 0.033 χ^2 /NDF: 1878871.3/34

Out: 207.614 $\pm$ 0.033 χ^2 /NDF: 2286709.2/37

All: 204.802 $\pm$ 0.023 χ^2 /NDF: 4179780.5/72

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966±/83.123 χ^2/NDF : 389.5/16

Left Out: 726.434±/59.555 χ^2/NDF :1473.2/18

Right Out: -957.615±/75.749 χ^2/NDF : 570.3/18

Left In: 438.261±/55.963 χ^2/NDF :1113.2/17

Left: 573.395±/40.782 χ^2/NDF : 2598.8/36

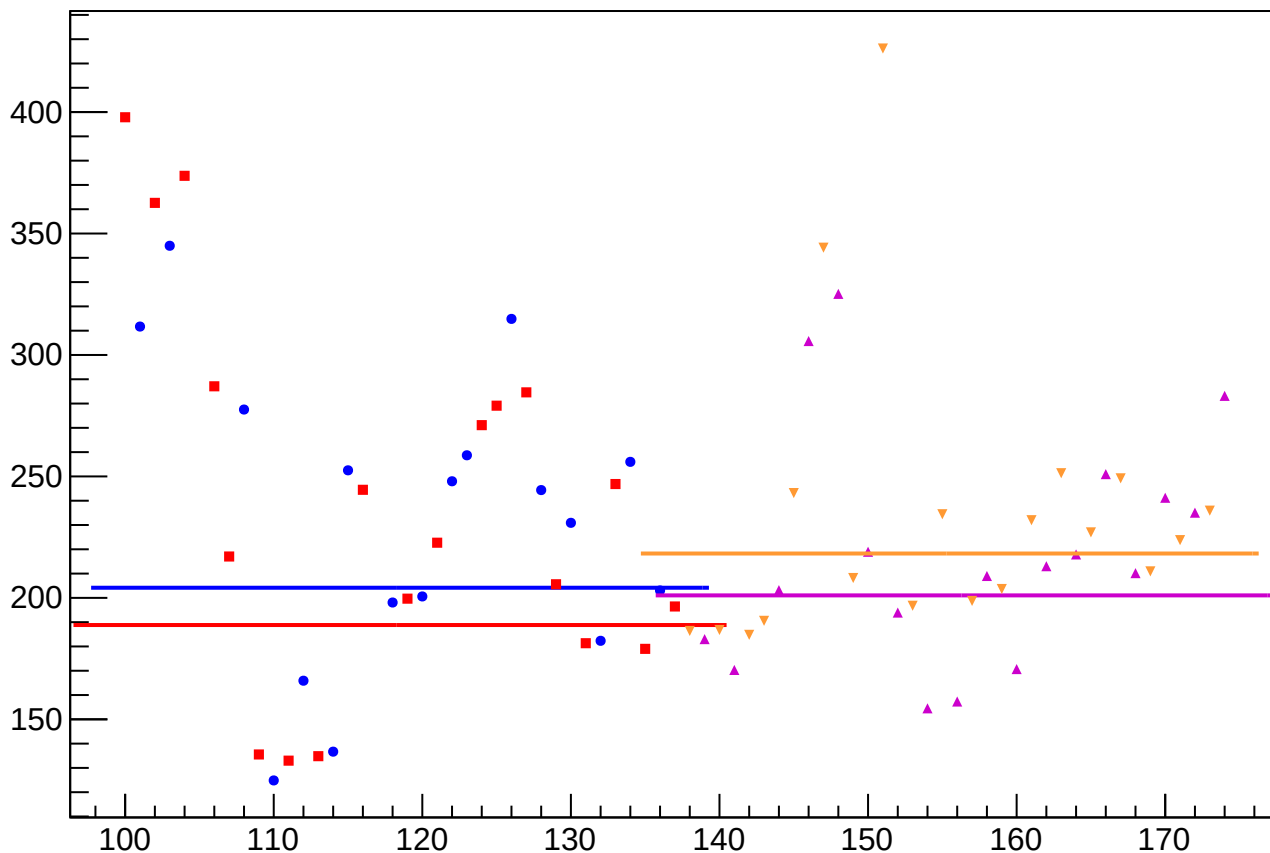
Right: -676.943±/55.988 χ^2/NDF : 990.0/35

In: 195.845±/46.422 χ^2/NDF :1562.8/34

Out: 83.118±/46.818 χ^2/NDF :2349.0/37

All: 139.960±/32.964 χ^2/NDF : 3914.7/72

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 218.263+/-0.042 χ^2/NDF : 845881.1/18

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 201.025+/-0.040 χ^2/NDF : 1070573.0/17

Left: 209.109+/-0.029 χ^2/NDF : 2005437.9/36

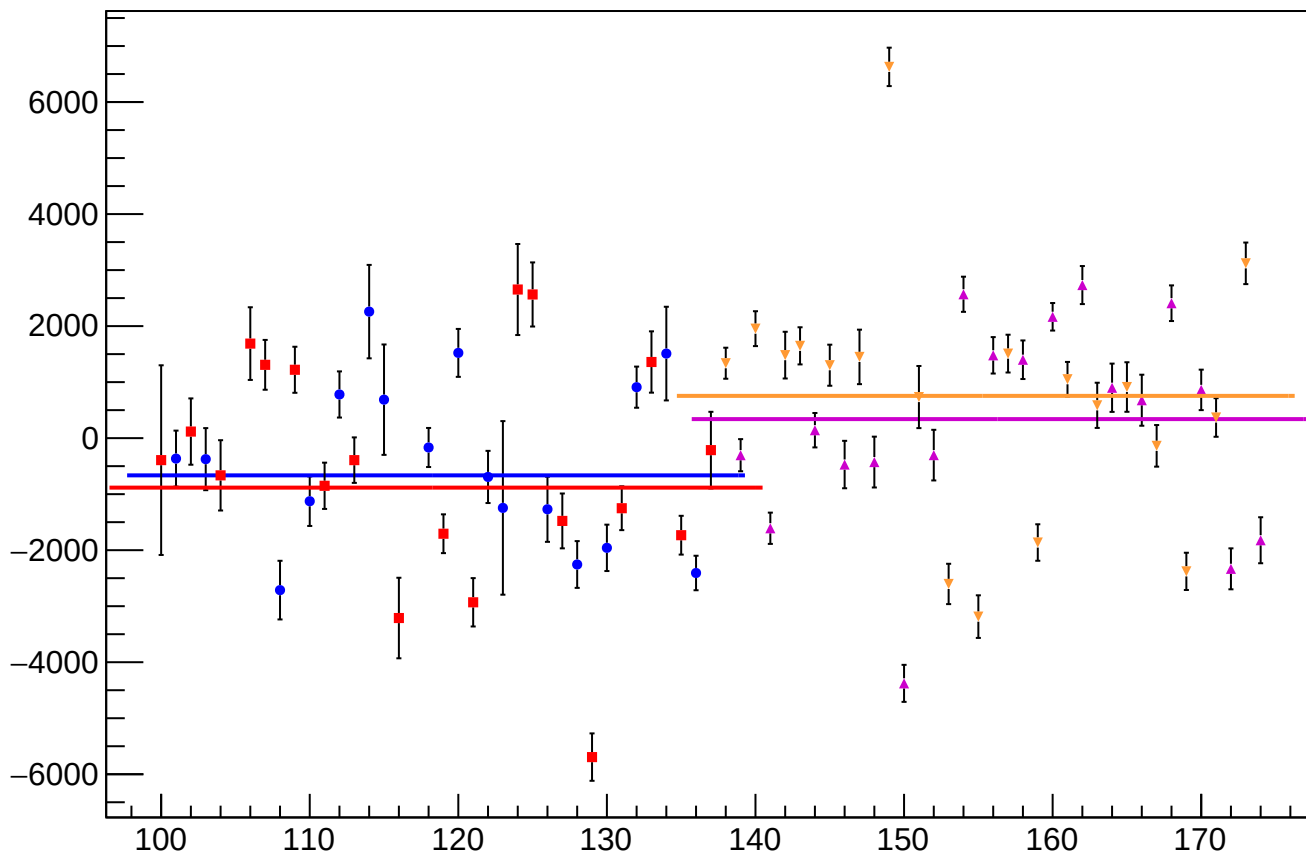
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 202.008+/-0.033 χ^2/NDF : 2019987.5/34

Out: 207.016+/-0.033 χ^2/NDF : 2347498.9/37

All: 204.491+/-0.023 χ^2/NDF : 4379027.4/72

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 754.646+/-82.150 χ^2/NDF : 728.8/18

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 339.935+/-80.459 χ^2/NDF : 571.2/17

Left: 542.980+/-57.482 χ^2/NDF : 1313.1/36

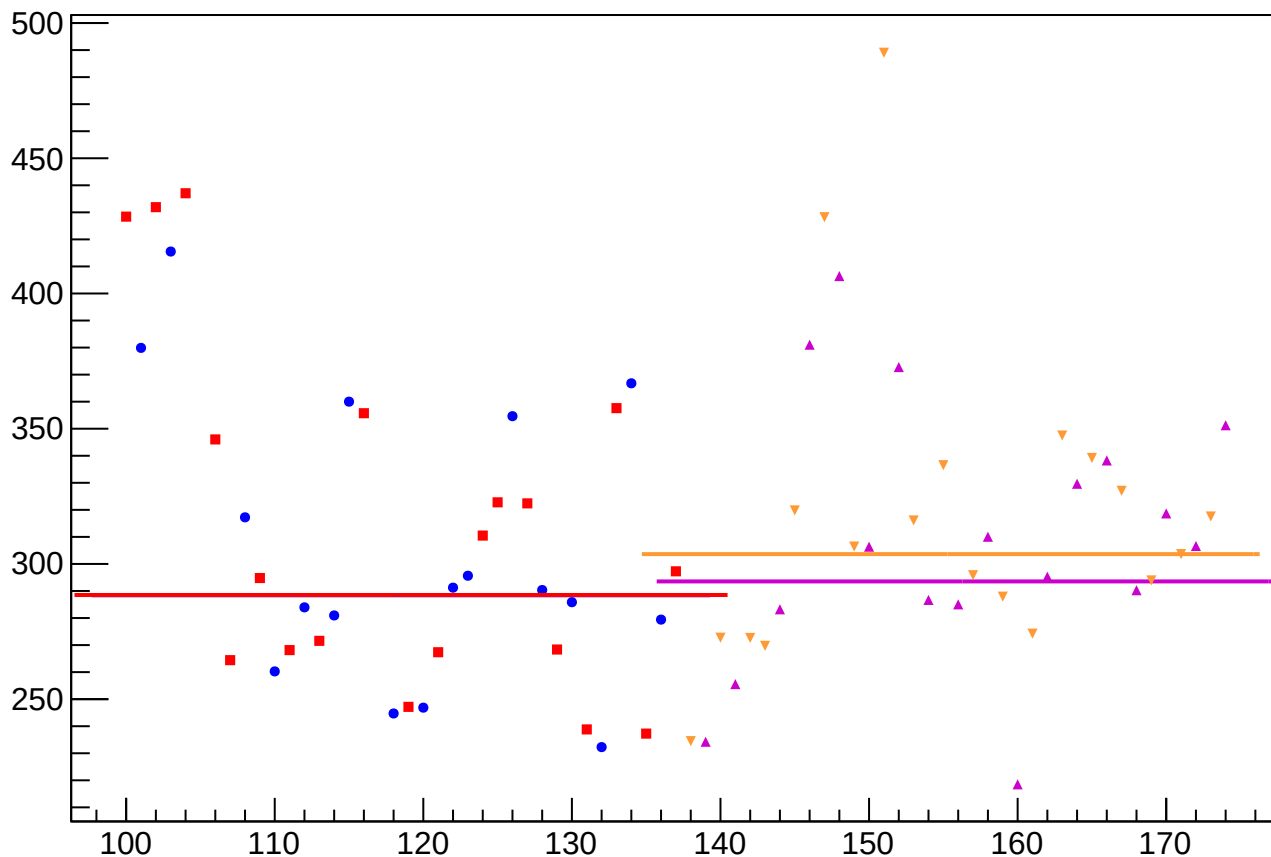
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: 5.797+/-65.726 χ^2/NDF : 777.4/34

Out: 174.160+/-66.006 χ^2/NDF : 1189.7/37

All: 89.620+/-46.574 χ^2/NDF : 1970.4/72

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 $\pm$ 0.081 χ^2 /NDF: 339820.0/16

Left Out: 303.628 $\pm$ 0.058 χ^2 /NDF: 625245.8/18

Right Out: 288.522 $\pm$ 0.078 χ^2 /NDF: 455410.1/18

Left In: 293.538 $\pm$ 0.057 χ^2 /NDF: 677109.3/17

Left: 298.478 $\pm$ 0.041 χ^2 /NDF: 1317754.8/36

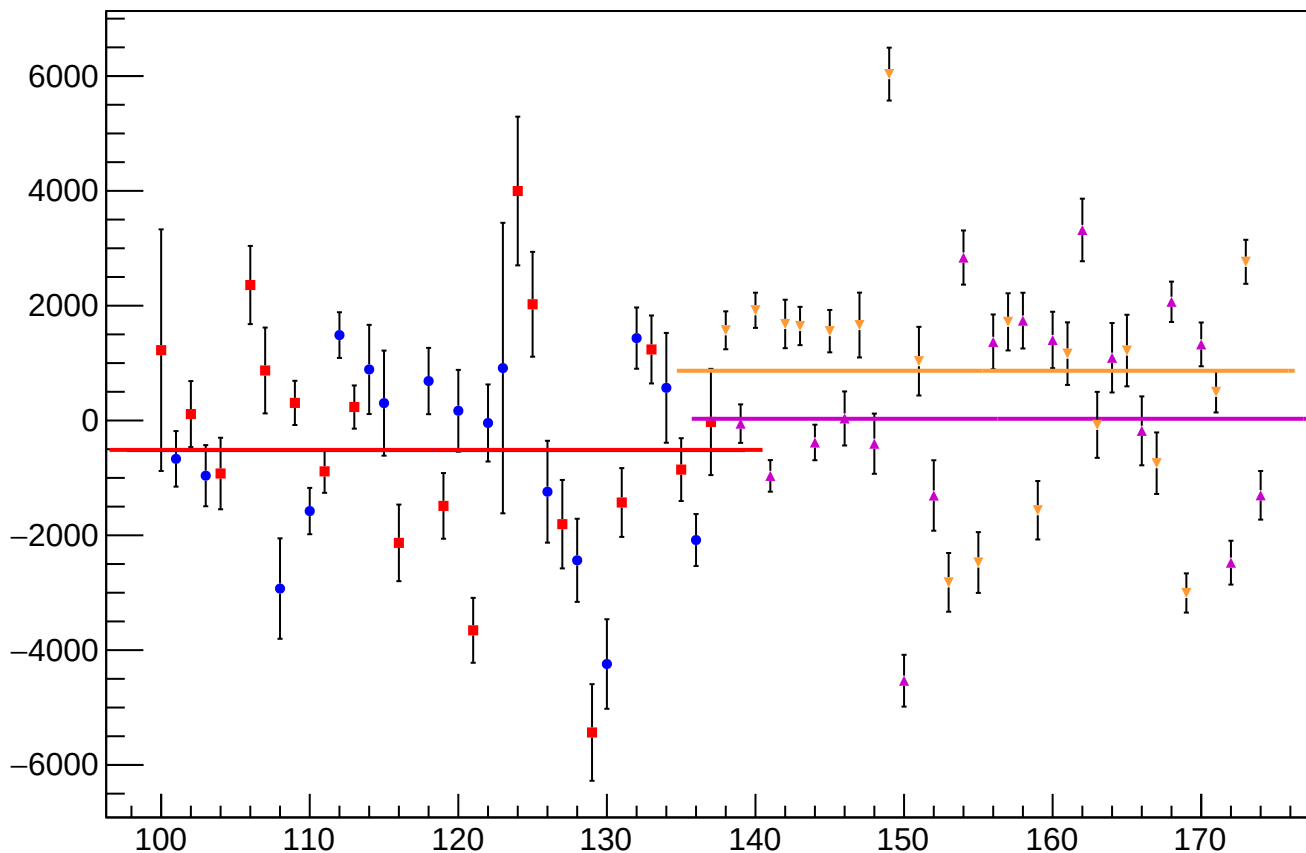
Right: 288.476 $\pm$ 0.056 χ^2 /NDF: 795230.9/35

In: 291.838 $\pm$ 0.046 χ^2 /NDF: 1019612.7/34

Out: 298.274 $\pm$ 0.047 χ^2 /NDF: 1104622.2/37

All: 295.042 $\pm$ 0.033 χ^2 /NDF: 2133783.9/72

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894±147.326 χ^2/NDF : 108.0/16

Left Out: 866.593±98.378 χ^2/NDF : 440.7/18

Right Out: -511.851±135.798 χ^2/NDF : 141.3/18

Left In: 29.800±99.125 χ^2/NDF : 323.7/17

Left: 451.362±69.827 χ^2/NDF : 800.4/36

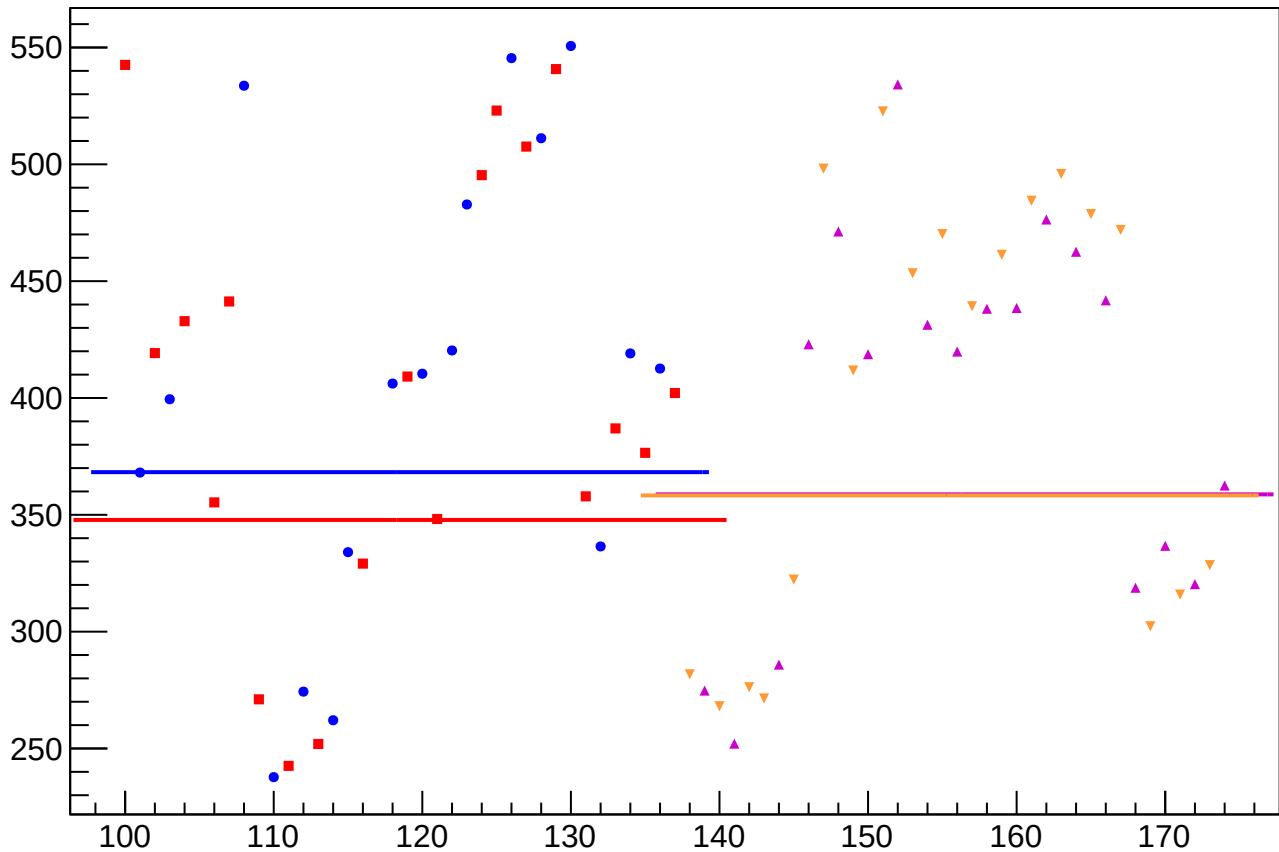
Right: -513.708±99.851 χ^2/NDF : 249.3/35

In: -140.252±82.243 χ^2/NDF : 441.2/34

Out: 392.156±79.669 χ^2/NDF : 649.6/37

All: 134.412±57.223 χ^2/NDF : 1112.4/72

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 358.310+/-0.070 χ^2/NDF : 1585465.7/18

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 358.755+/-0.070 χ^2/NDF : 1294430.2/17

Left: 358.531+/-0.049 χ^2/NDF : 2879916.1/36

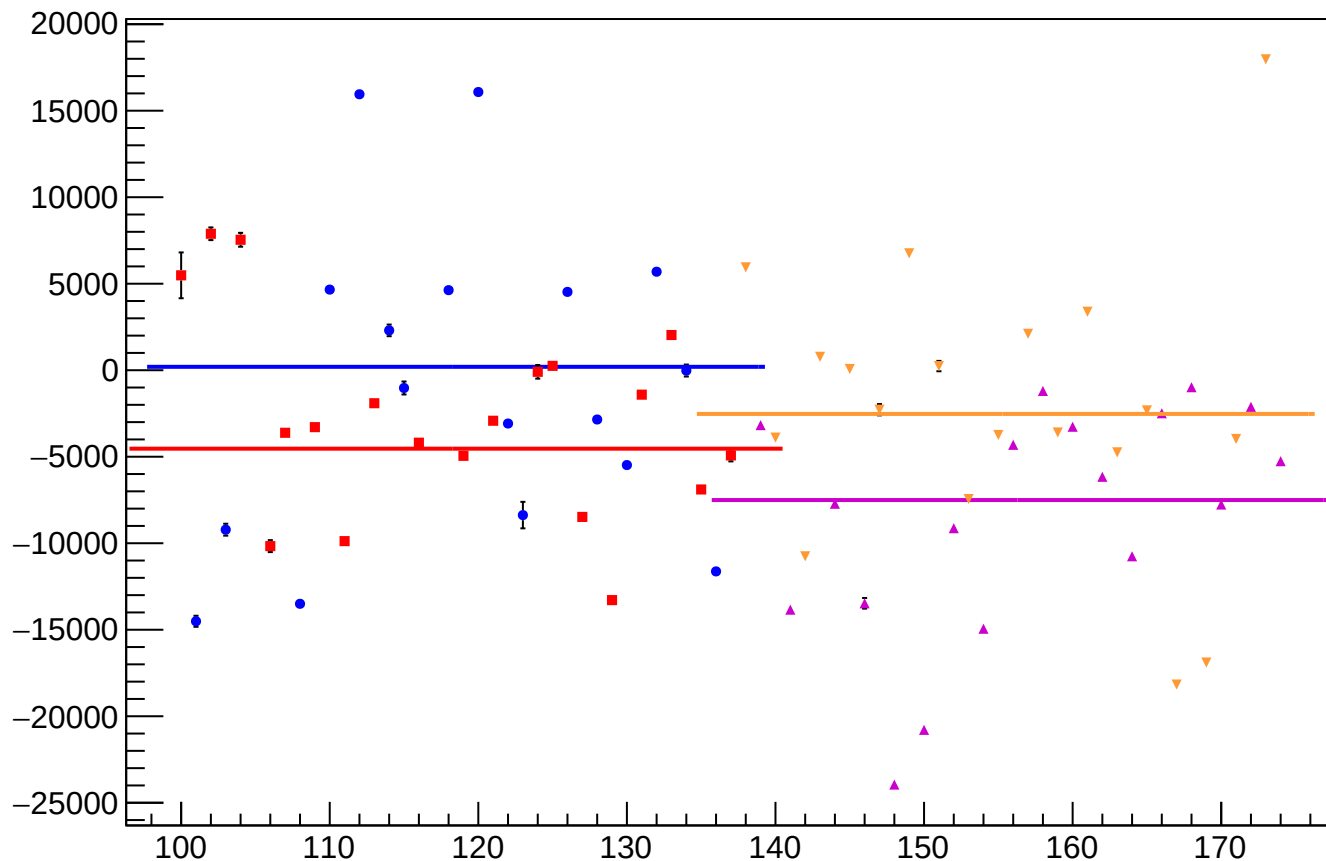
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 361.718+/-0.058 χ^2/NDF : 2070282.7/34

Out: 354.693+/-0.056 χ^2/NDF : 2415181.3/37

All: 358.094+/-0.040 χ^2/NDF : 4492991.6/72

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -2525.898 ± 45.950 $\chi^2/\text{NDF}: 29751.6/18$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7503.576 ± 47.096 $\chi^2/\text{NDF}: 17289.1/17$

Left: -4953.470 ± 32.889 $\chi^2/\text{NDF}: 52763.7/36$

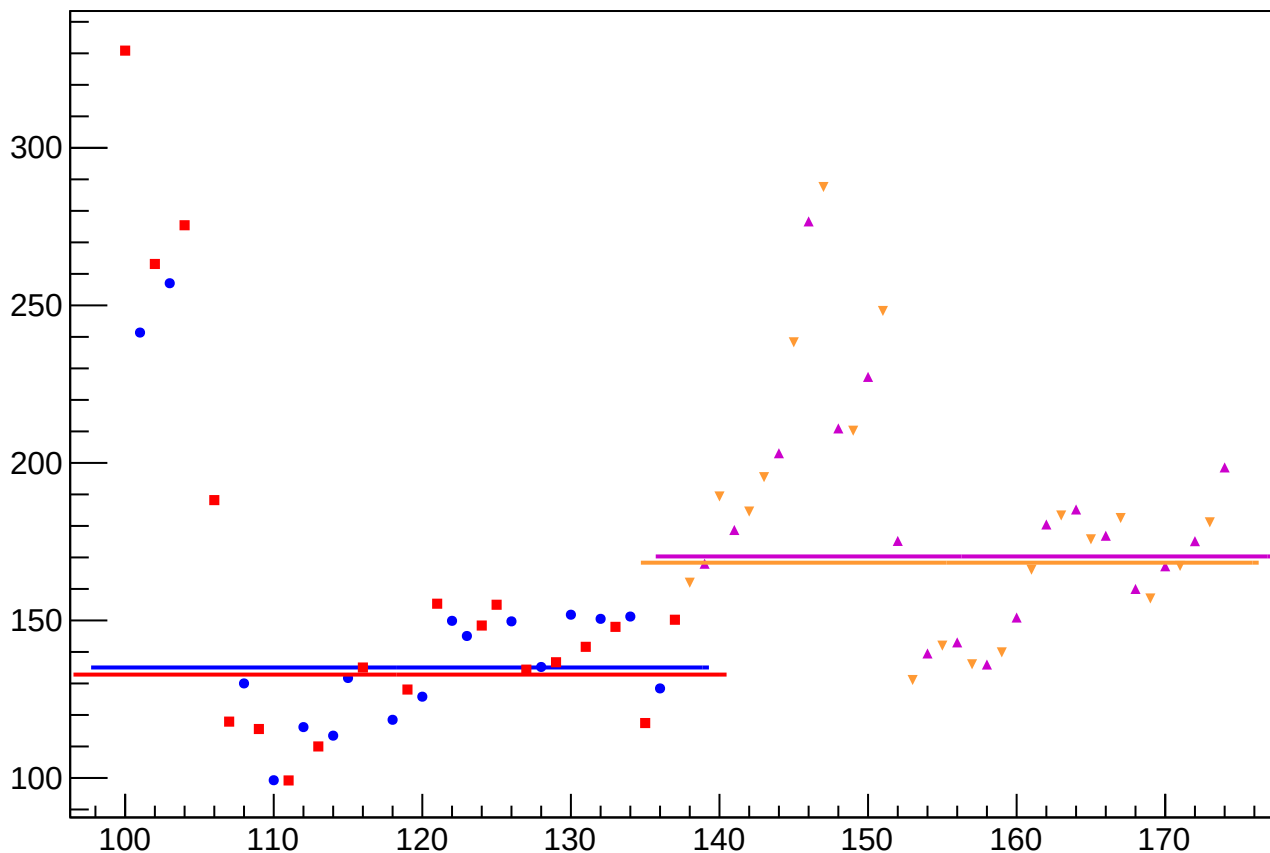
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4232.107 ± 35.717 $\chi^2/\text{NDF}: 59305.5/34$

Out: -3397.751 ± 34.566 $\chi^2/\text{NDF}: 38058.1/37$

All: -3801.266 ± 24.839 $\chi^2/\text{NDF}: 97645.4/72$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 168.335 $\pm$ 0.032 χ^2 /NDF:1028551.6/18

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 170.315 $\pm$ 0.033 χ^2 /NDF:769336.1/17

Left: 169.301 $\pm$ 0.023 χ^2 /NDF: 1799699.2/36

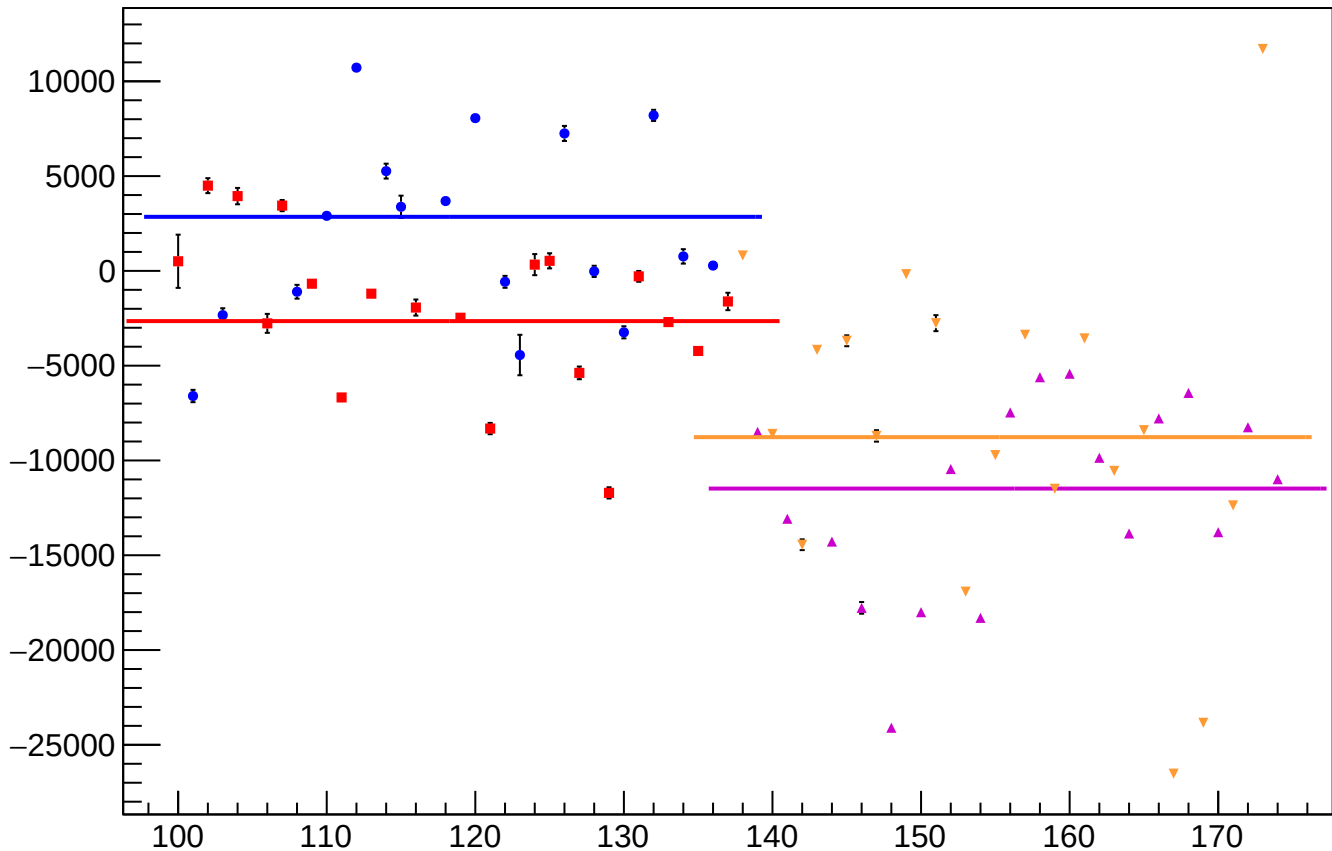
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 155.343 $\pm$ 0.025 χ^2 /NDF:1903855.6/34

Out: 152.915 $\pm$ 0.024 χ^2 /NDF:2378518.6/37

All: 154.089 $\pm$ 0.018 χ^2 /NDF: 4287143.4/72

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8770.420+/-51.770 χ^2/NDF : 29644.1/18

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11482.198+/-48.179 χ^2/NDF : 10807.9/17

Left: -10223.636+/-35.269 χ^2/NDF : 41922.4/36

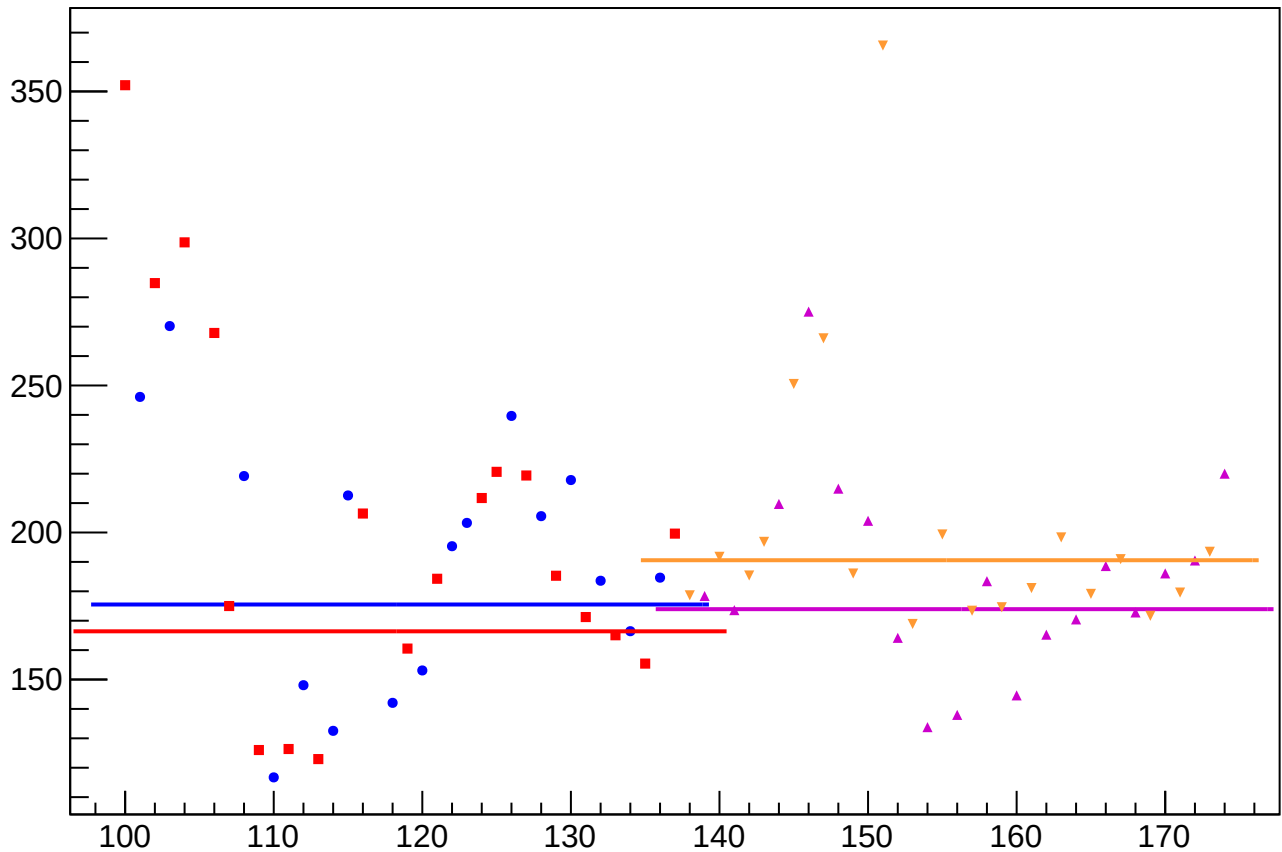
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6941.465+/-39.823 χ^2/NDF : 43025.8/34

Out: -6426.927+/-40.670 χ^2/NDF : 38172.1/37

All: -6689.614+/-28.454 χ^2/NDF : 81279.6/72

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 190.569 $\pm$ 0.037 χ^2 /NDF: 656496.3/18

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 173.928 $\pm$ 0.034 χ^2 /NDF: 776592.7/17

Left: 181.651 $\pm$ 0.025 χ^2 /NDF: 1543822.9/36

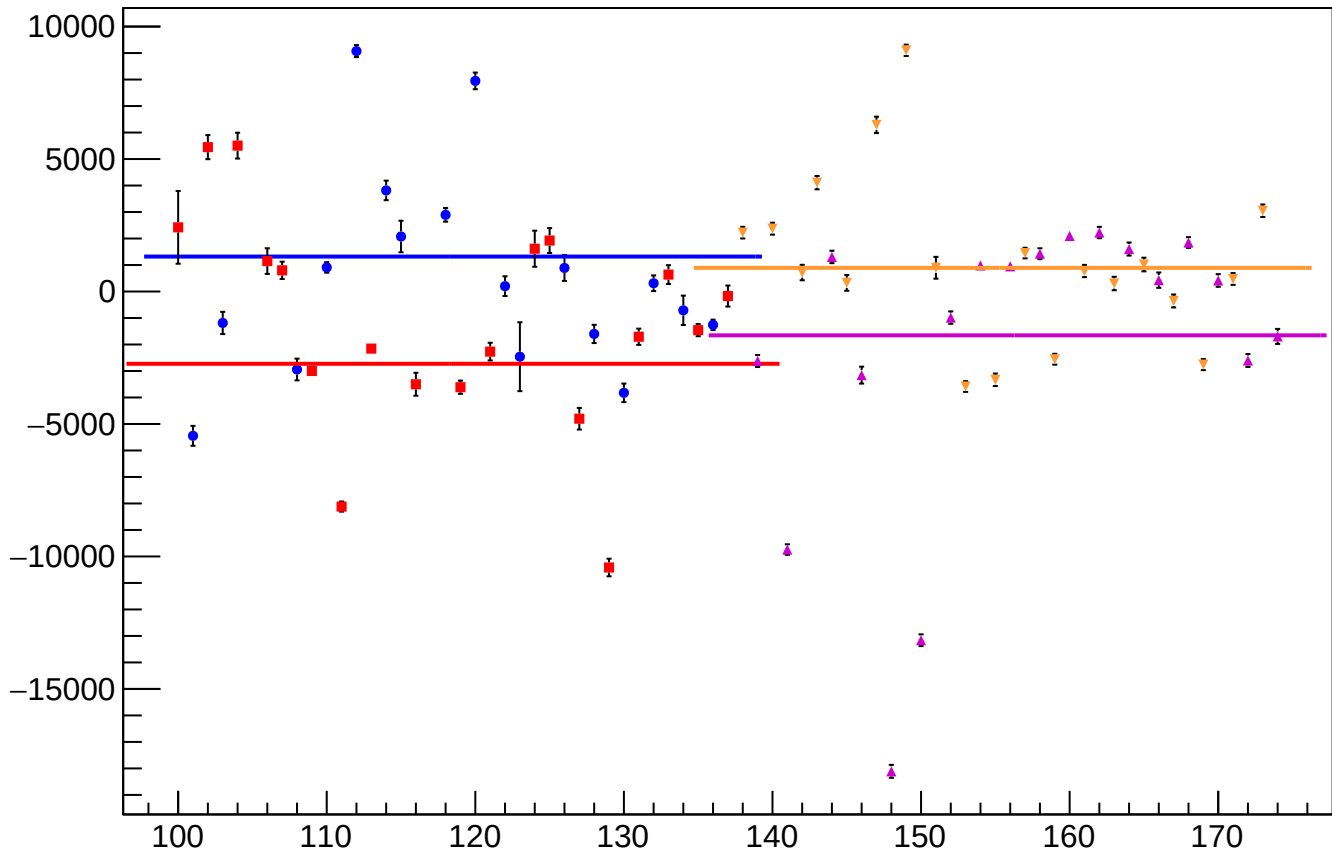
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 174.431 $\pm$ 0.028 χ^2 /NDF: 1466921.6/34

Out: 181.313 $\pm$ 0.029 χ^2 /NDF: 1753006.4/37

All: 177.799 $\pm$ 0.020 χ^2 /NDF: 3249169.1/72

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 892.609+/-54.632 χ^2/NDF : 3554.6/18

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1653.949+/-50.720 χ^2/NDF : 11302.8/17

Left: -475.087+/-37.171 χ^2/NDF : 16024.4/36

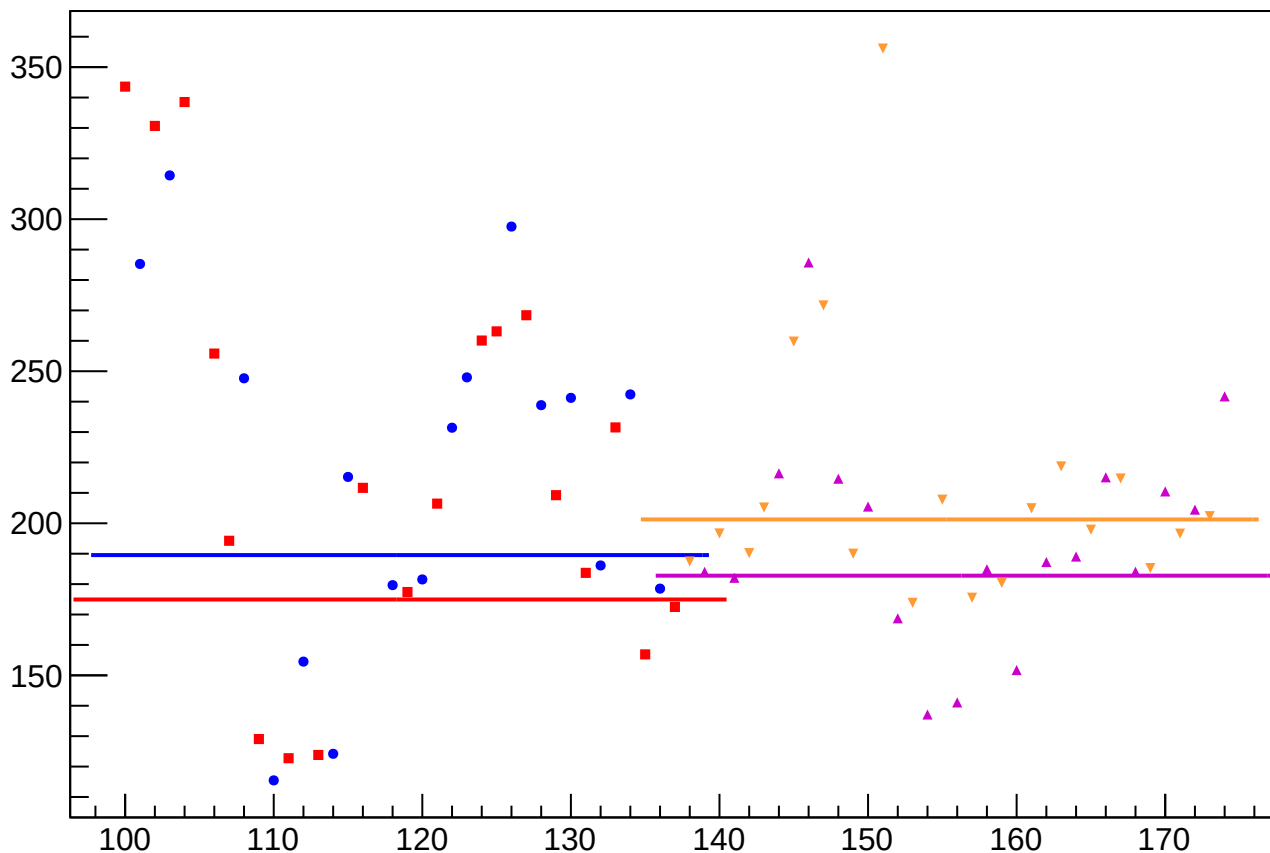
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -756.703+/-42.381 χ^2/NDF : 15006.7/34

Out: -477.146+/-43.075 χ^2/NDF : 7712.1/37

All: -619.193+/-30.210 χ^2/NDF : 22740.2/72

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.262 $\pm$ 0.039 χ^2 /NDF: 601891.9/18

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 182.774 $\pm$ 0.036 χ^2 /NDF: 846531.0/17

Left: 191.333 $\pm$ 0.026 χ^2 /NDF: 1571432.0/36

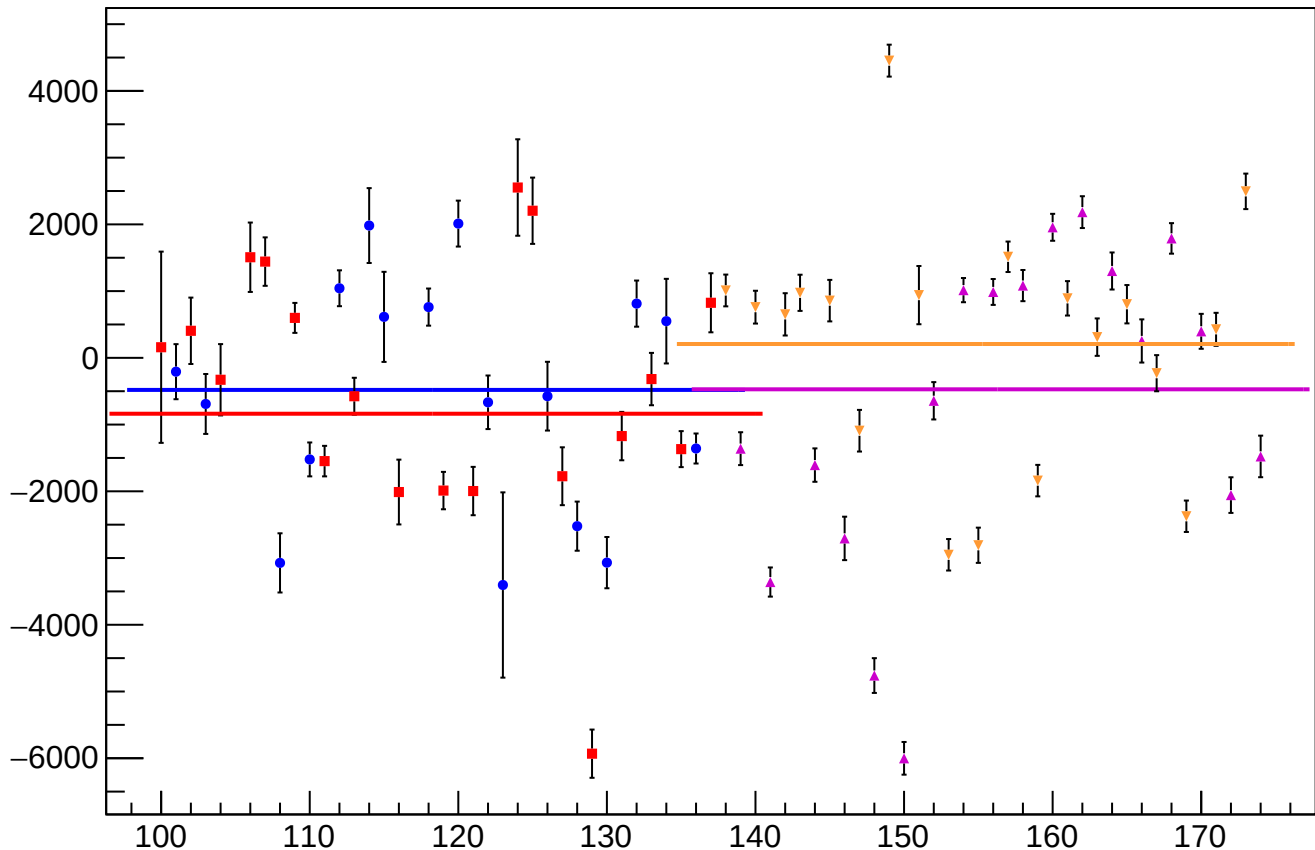
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 184.818 $\pm$ 0.030 χ^2 /NDF: 1838029.7/34

Out: 191.305 $\pm$ 0.030 χ^2 /NDF: 2074605.0/37

All: 188.009 $\pm$ 0.021 χ^2 /NDF: 3935683.4/72

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 207.390+/-60.567 χ^2/NDF :992.7/18

Right Out: -837.442+/-82.243 χ^2/NDF : 435.3/18

Left In: -471.622+/-57.258 χ^2/NDF :1673.4/17

Left: -151.172+/-41.608 χ^2/NDF : 2732.5/36

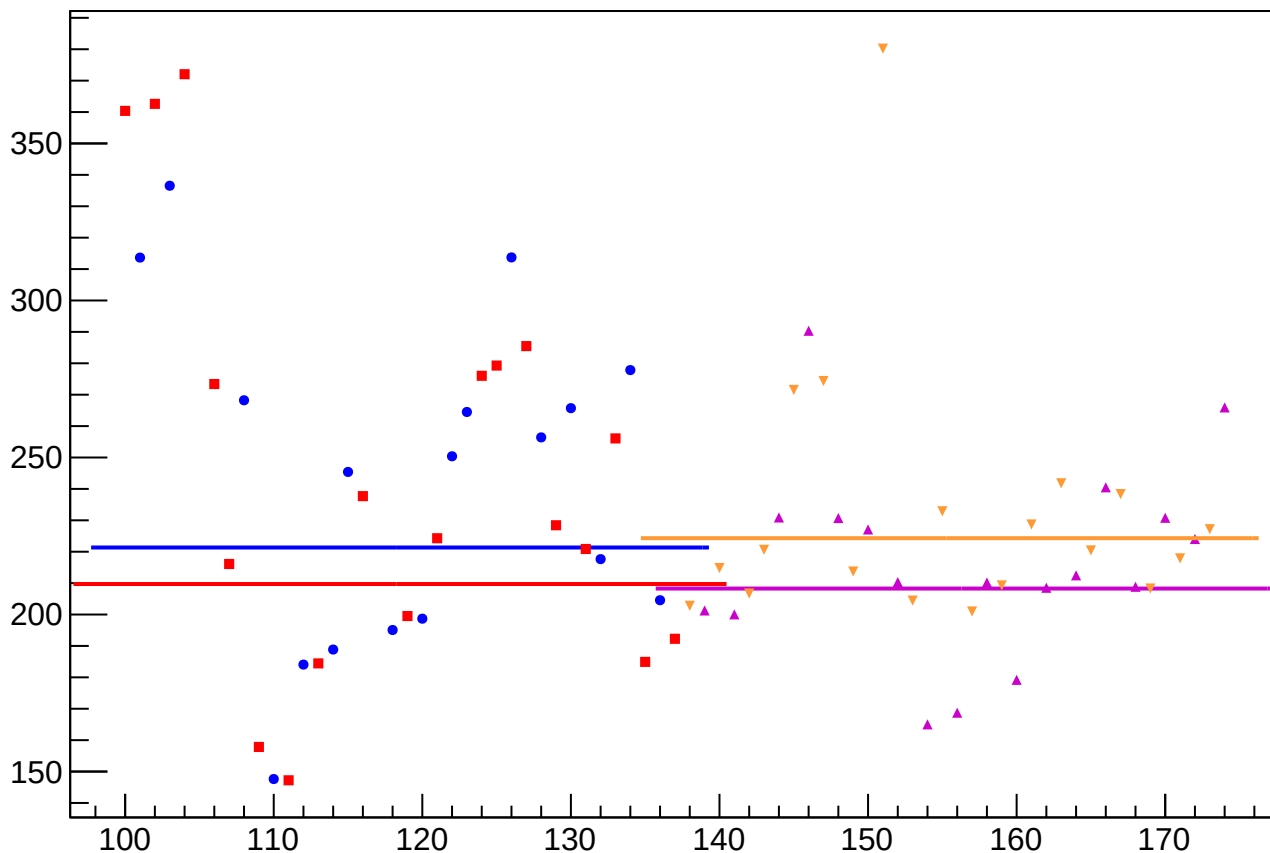
Right: -672.351+/-60.290 χ^2/NDF : 734.7/35

In: -474.259+/-48.096 χ^2/NDF :1964.1/34

Out: -160.011+/-48.769 χ^2/NDF :1532.7/37

All: -319.319+/-34.245 χ^2/NDF : 3517.8/72

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.309 $\pm$ 0.043 χ^2 /NDF: 452907.3/18

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 208.270 $\pm$ 0.040 χ^2 /NDF: 523879.0/17

Left: 215.839 $\pm$ 0.029 χ^2 /NDF: 1050843.7/36

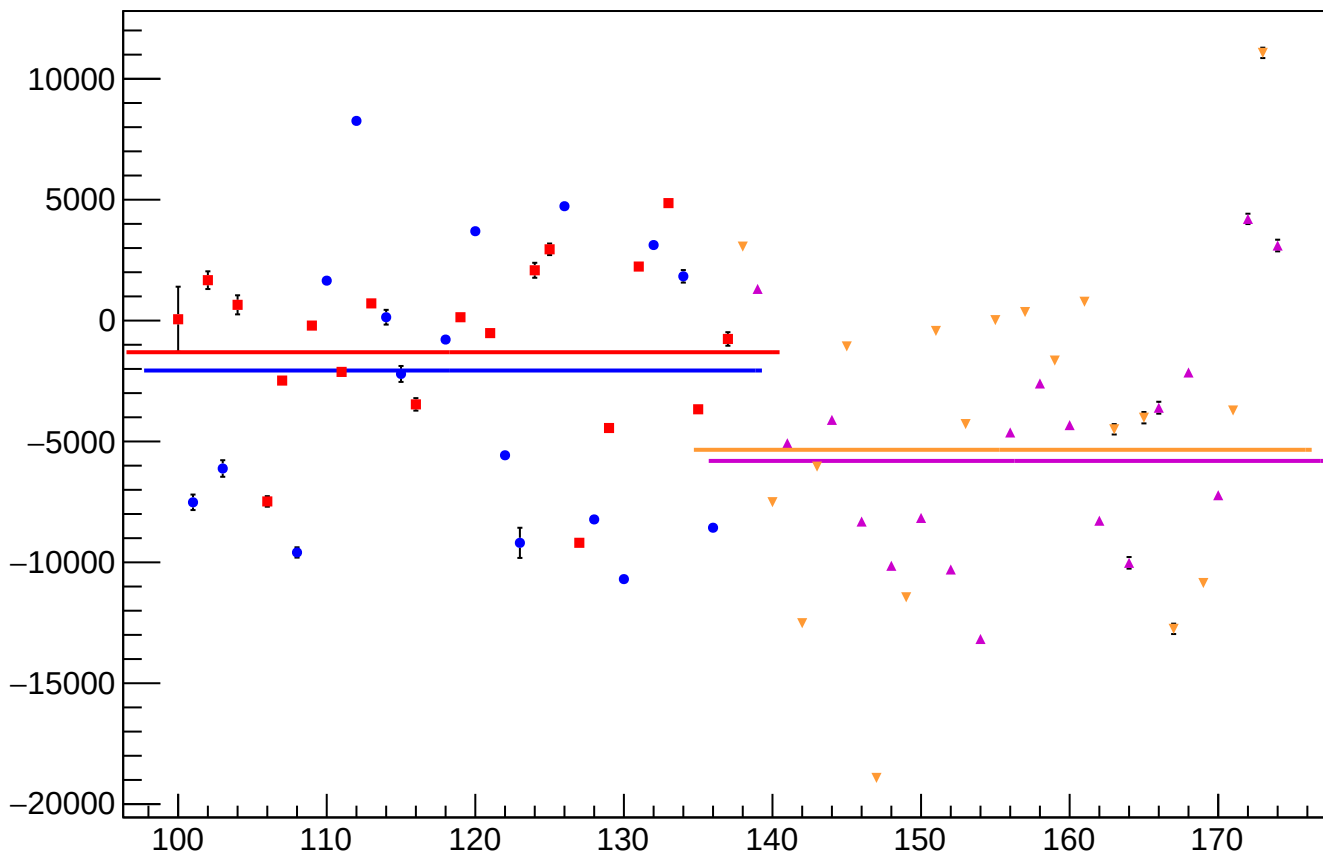
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 212.119 $\pm$ 0.034 χ^2 /NDF: 1200256.4/34

Out: 219.178 $\pm$ 0.034 χ^2 /NDF: 1377647.1/37

All: 215.599 $\pm$ 0.024 χ^2 /NDF: 2599143.8/72

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -5344.413+/-35.577 χ^2/NDF : 36143.8/18

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -5804.384+/-36.451 χ^2/NDF : 13396.4/17

Left: -5568.821+/-25.460 χ^2/NDF : 49621.7/36

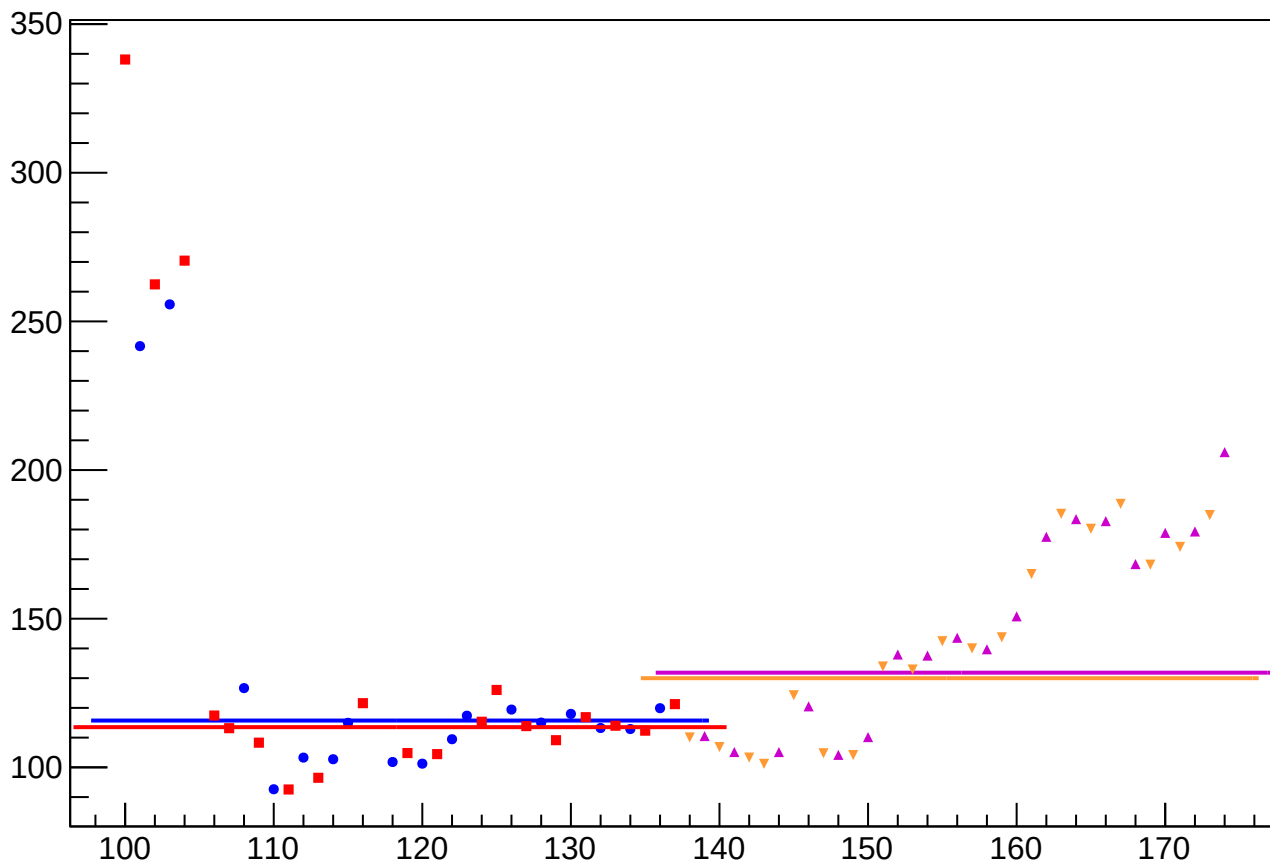
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4411.984+/-28.877 χ^2/NDF : 33848.3/34

Out: -3792.107+/-27.909 χ^2/NDF : 46987.8/37

All: -4091.477+/-20.068 χ^2/NDF : 81074.4/72

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 129.987+/-0.025 χ^2/NDF :1259948.8/18

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 131.843+/-0.026 χ^2/NDF :1252580.1/17

Left: 130.892+/-0.018 χ^2/NDF : 2515182.9/36

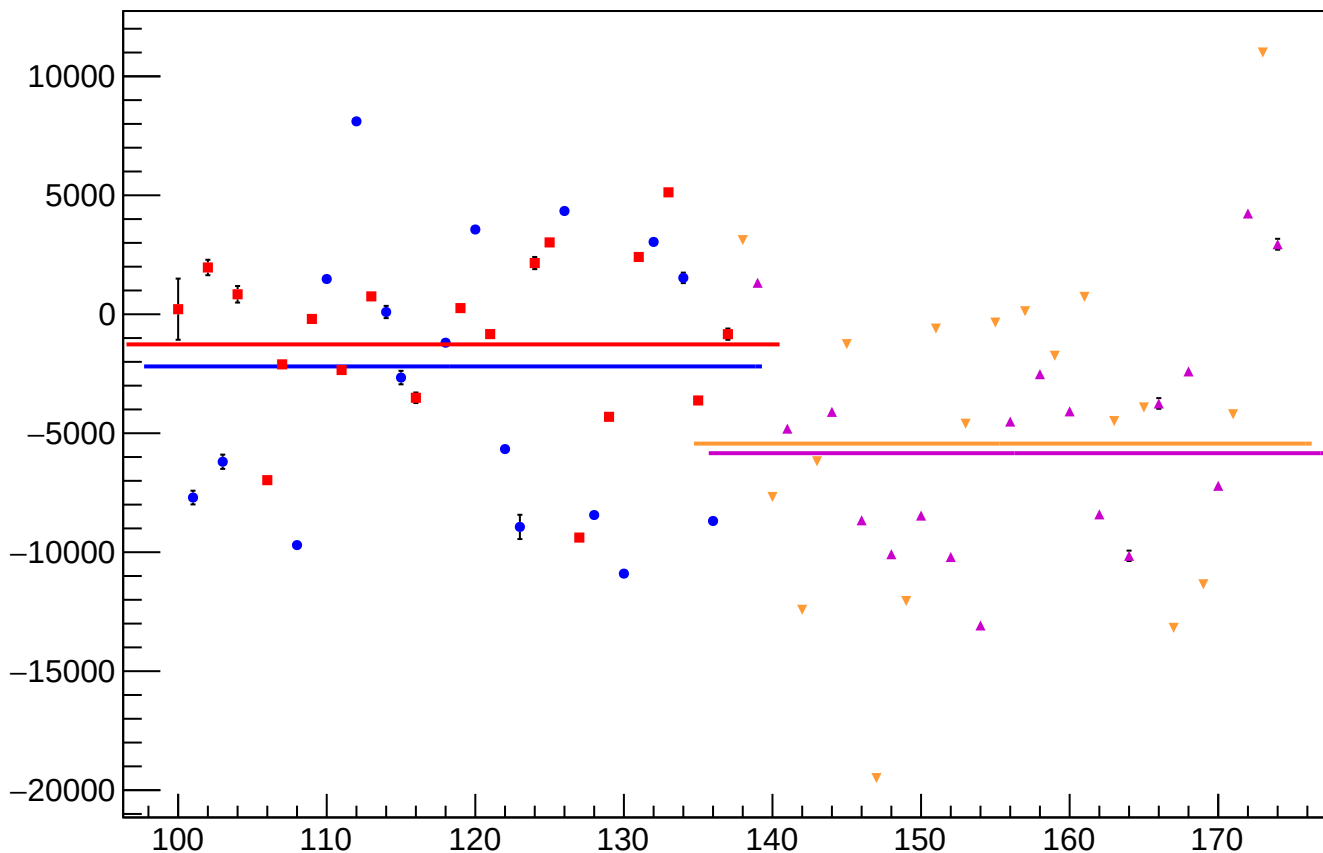
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 125.847+/-0.020 χ^2/NDF :2141929.7/34

Out: 123.653+/-0.020 χ^2/NDF :2221408.4/37

All: 124.712+/-0.014 χ^2/NDF : 4369304.4/72

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327+/-39.944 χ^2/NDF : 22813.5/16

Left Out: -5435.700+/-32.224 χ^2/NDF : 43613.2/18

Right Out: -1266.189+/-38.048 χ^2/NDF : 8550.5/18

Left In: -5837.989+/-33.402 χ^2/NDF : 16145.2/17

Left: -5629.630+/-23.191 χ^2/NDF : 59833.5/36

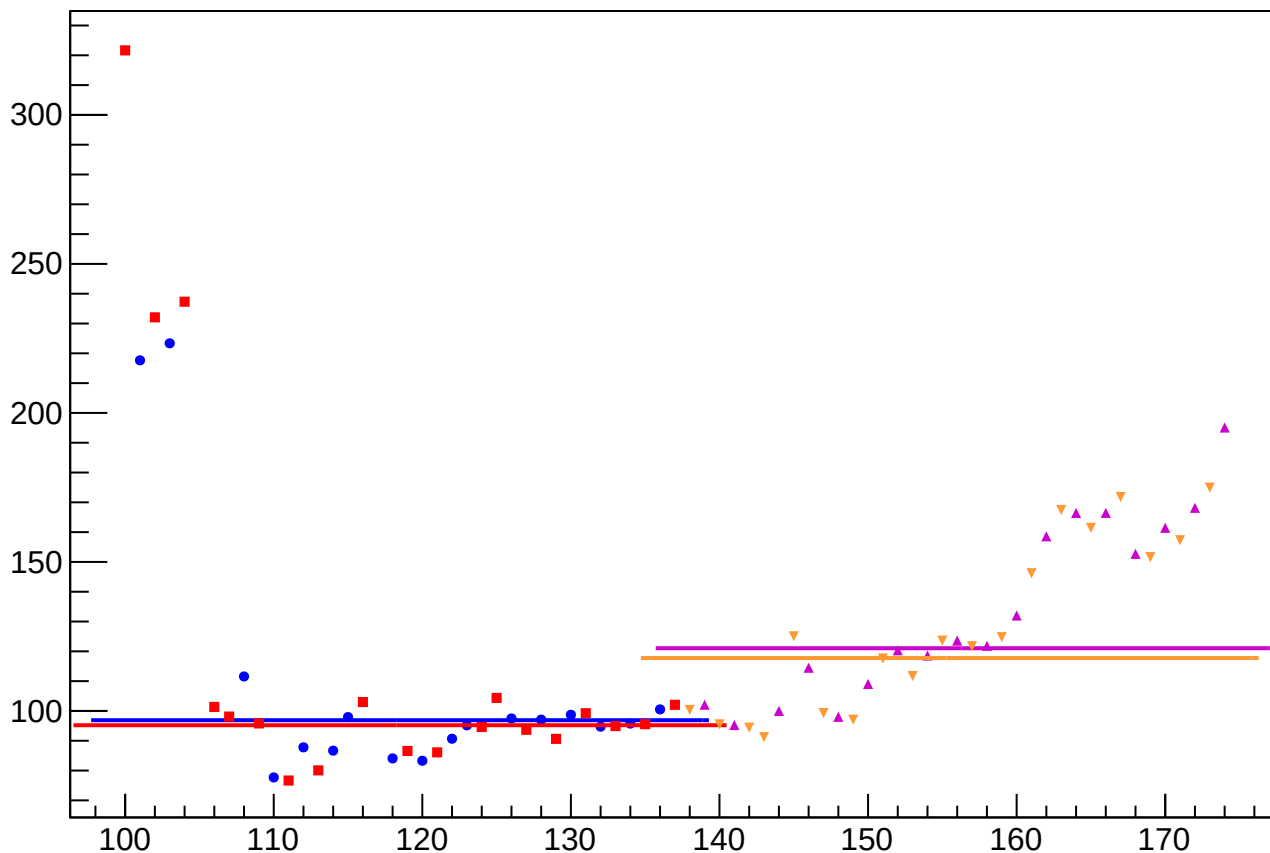
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4337.777+/-25.624 χ^2/NDF : 43860.9/34

Out: -3694.138+/-24.590 χ^2/NDF : 59156.6/37

All: -4002.717+/-17.742 χ^2/NDF : 103346.0/7

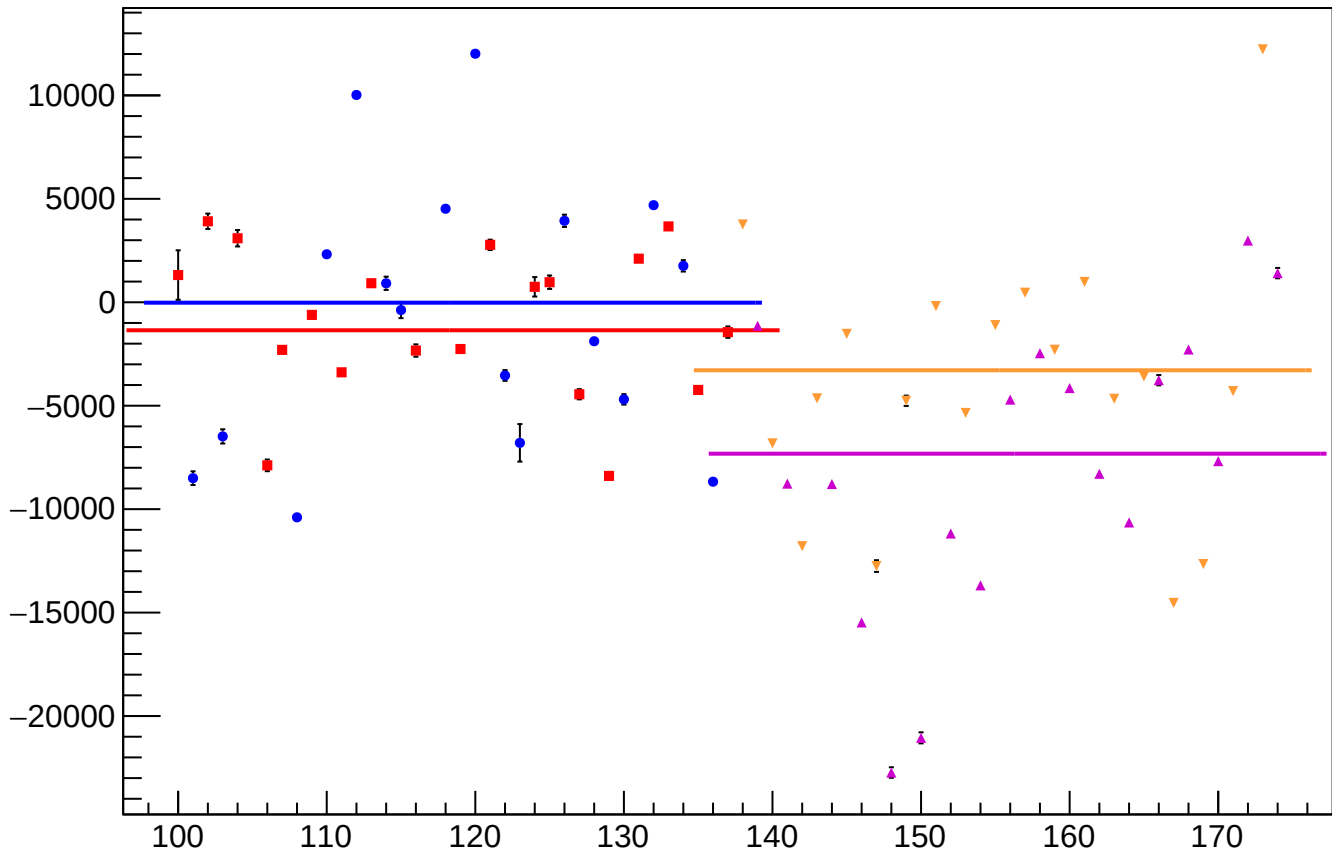
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 117.760+/-0.023 χ^2/NDF : 1190373.2/18
 Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18
 Left In: 121.041+/-0.024 χ^2/NDF : 1106093.8/17

Left: 119.342+/-0.016 χ^2/NDF : 2306457.3/36
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 111.104+/-0.018 χ^2/NDF : 2353437.2/34
 Out: 108.343+/-0.017 χ^2/NDF : 2459151.0/37
 All: 109.667+/-0.013 χ^2/NDF : 4824679.3/72

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 $\pm$ 54.643 χ^2/NDF : 16361.0/16

Left Out: -3286.918 $\pm$ 43.756 χ^2/NDF : 16546.0/18

Right Out: -1353.461 $\pm$ 52.367 χ^2/NDF : 3837.2/18

Left In: -7319.151 $\pm$ 45.716 χ^2/NDF : 17068.4/17

Left: -5214.767 $\pm$ 31.610 χ^2/NDF : 37674.6/36

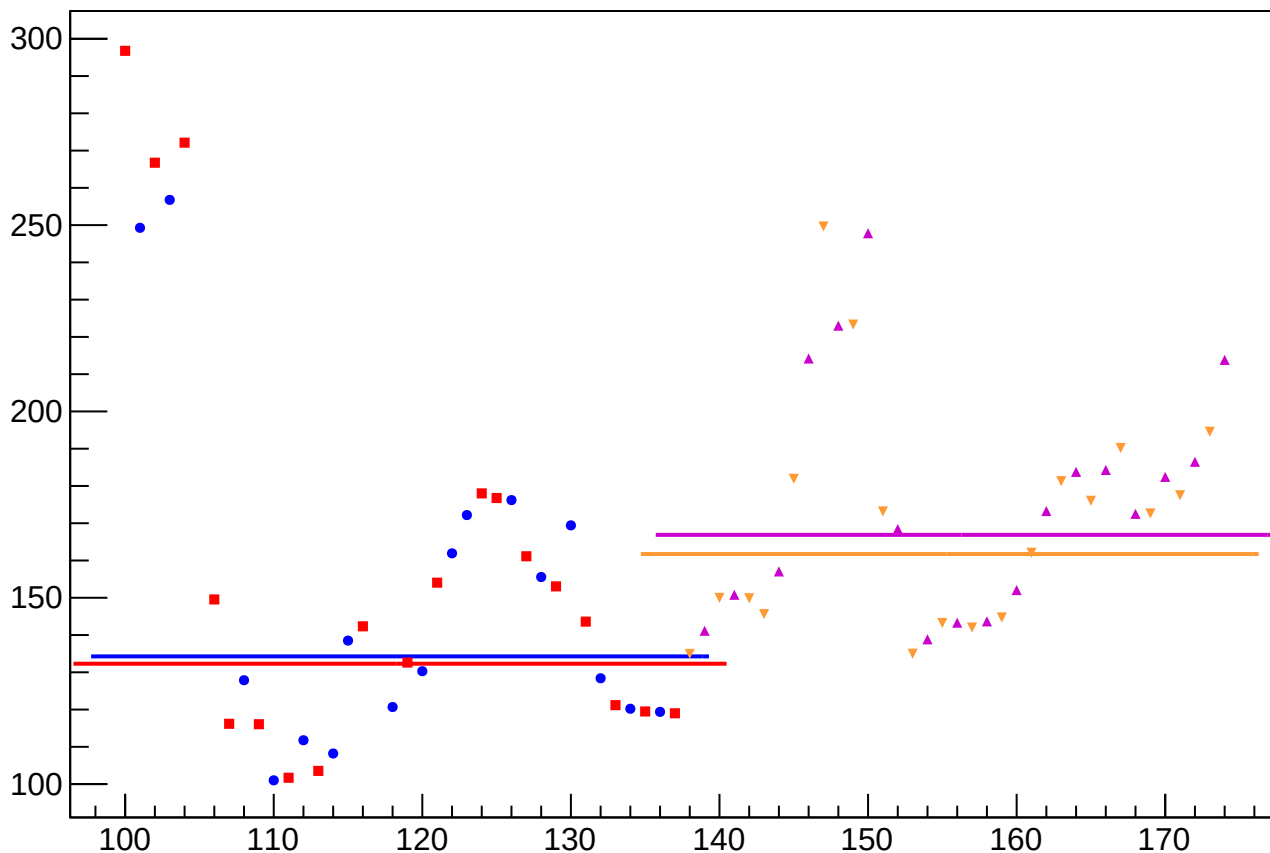
Right: -715.084 $\pm$ 37.808 χ^2/NDF : 20508.6/35

In: -4313.799 $\pm$ 35.063 χ^2/NDF : 43925.8/34

Out: -2492.008 $\pm$ 33.577 χ^2/NDF : 21185.9/37

All: -3363.491 $\pm$ 24.251 χ^2/NDF : 66520.0/72

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 161.735 $\pm$ 0.031 χ^2 /NDF: 688792.9/18

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 166.878 $\pm$ 0.032 χ^2 /NDF: 717238.1/17

Left: 164.194 $\pm$ 0.022 χ^2 /NDF: 1419242.0/36

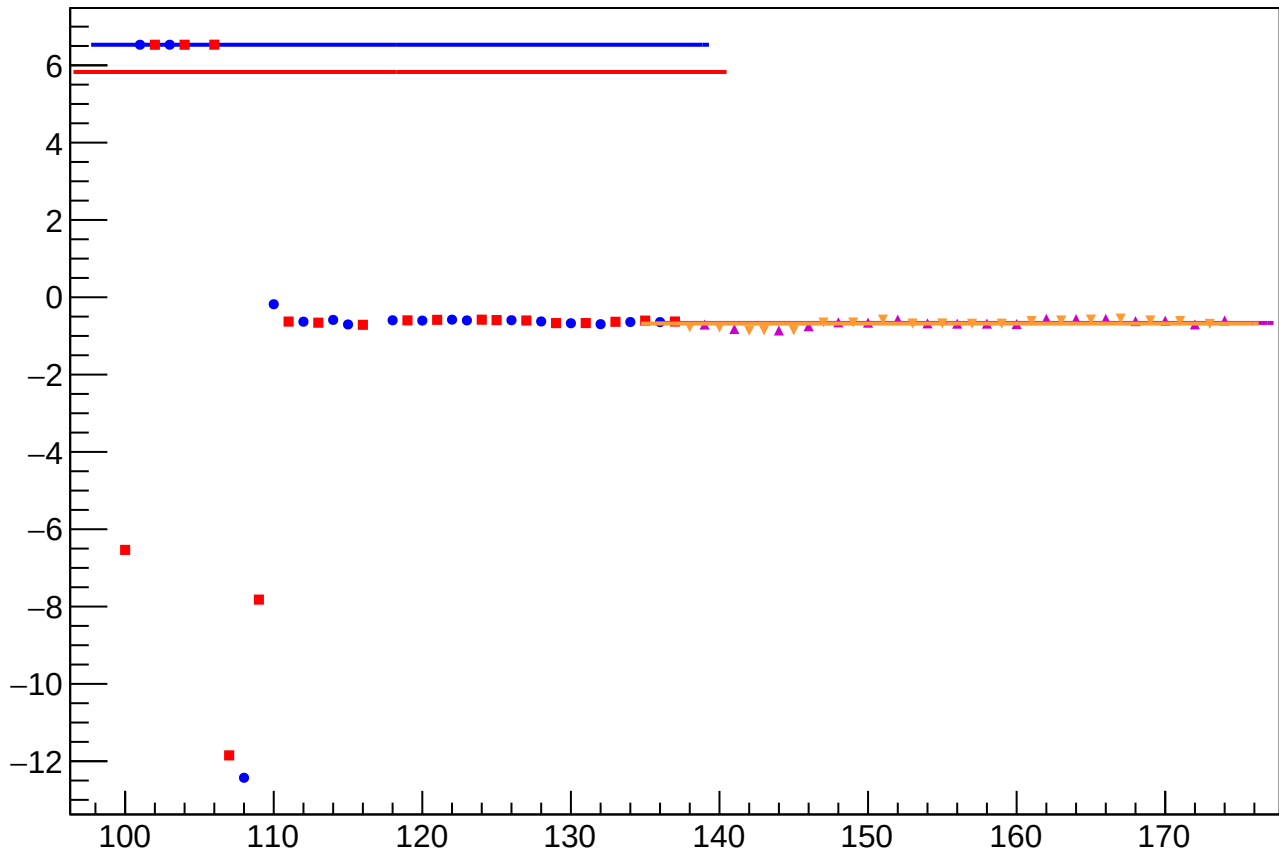
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 153.451 $\pm$ 0.025 χ^2 /NDF: 1924908.0/34

Out: 149.634 $\pm$ 0.024 χ^2 /NDF: 1930732.6/37

All: 151.460 $\pm$ 0.017 χ^2 /NDF: 3868003.6/72

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 127906780672.7/16

Left Out: -0.681 $\pm$ 0.000 χ^2 /NDF: 127349300.2/18

Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755948646460090.5/18

Left In: -0.664 $\pm$ 0.000 χ^2 /NDF: 100878138.4/17

Left: -0.672 $\pm$ 0.000 χ^2 /NDF: 229992797.6/36

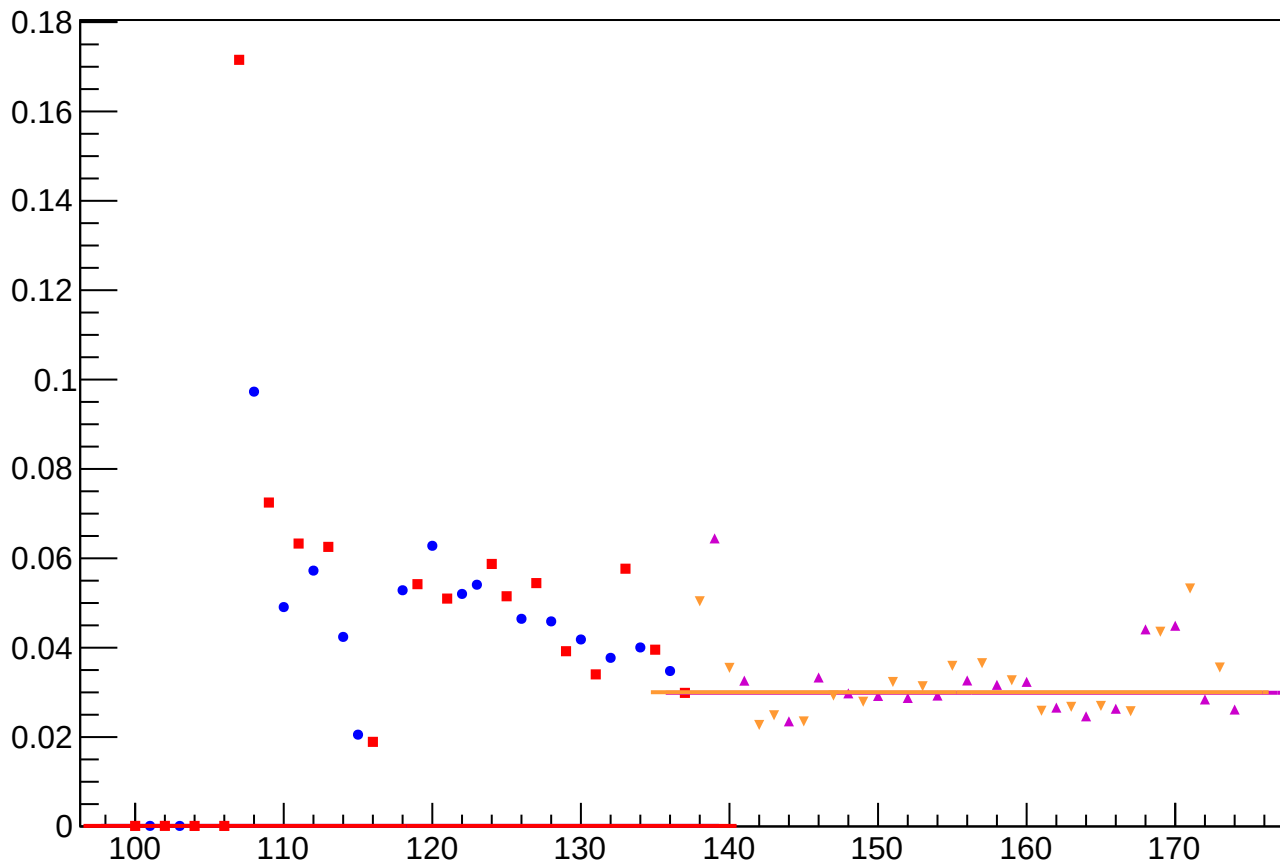
Right: 6.155 $\pm$ 0.000 χ^2 /NDF: 776079822212880.5/36

In: 6.530 $\pm$ 0.000 χ^2 /NDF: 757708349119.8/34

Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 756467164772798.5/34

All: 6.154 $\pm$ 0.000 χ^2 /NDF: 77721736240656.0/70

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 1030752.0/18

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.030+/-0.000 χ^2/NDF : 913191.6/17

Left: 0.030+/-0.000 χ^2/NDF : 1944119.8/36

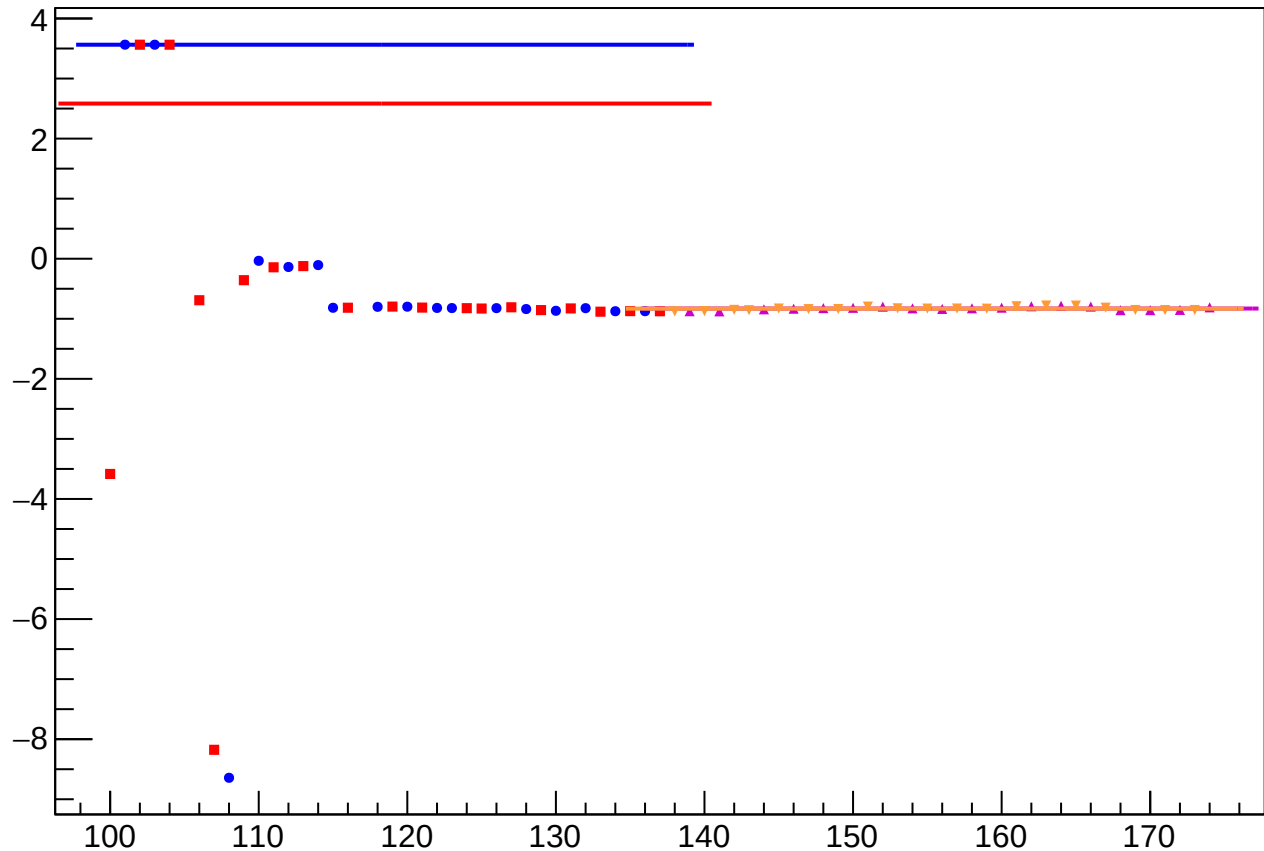
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 31532540.8/34

Out: 0.000+/-0.000 χ^2/NDF : 32308468.6/37

All: 0.000+/-0.000 χ^2/NDF : 63841453.1/72

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.831+/-0.000 χ^2/NDF : 143455609.9/18

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.830+/-0.000 χ^2/NDF : 124592000.7/17

Left: -0.830+/-0.000 χ^2/NDF : 268183552.8/36

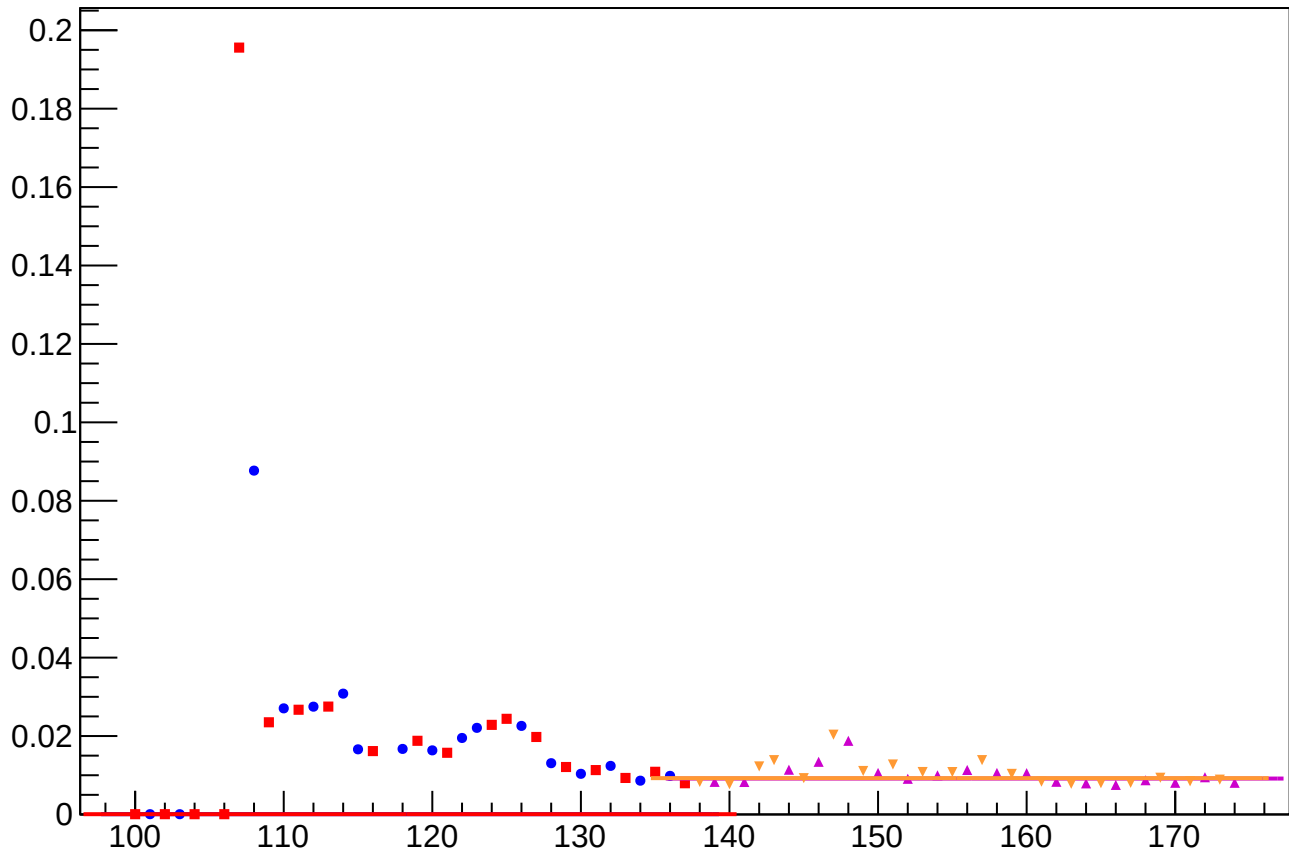
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 3109070664161.6/34

Out: 2.582+/-0.000 χ^2/NDF : 1255072030929966.5

All: 3.038+/-0.000 χ^2/NDF : 13863123048093

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.009+/-0.000 χ^2/NDF :1079026.0/18

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF :818940.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1899437.5/36

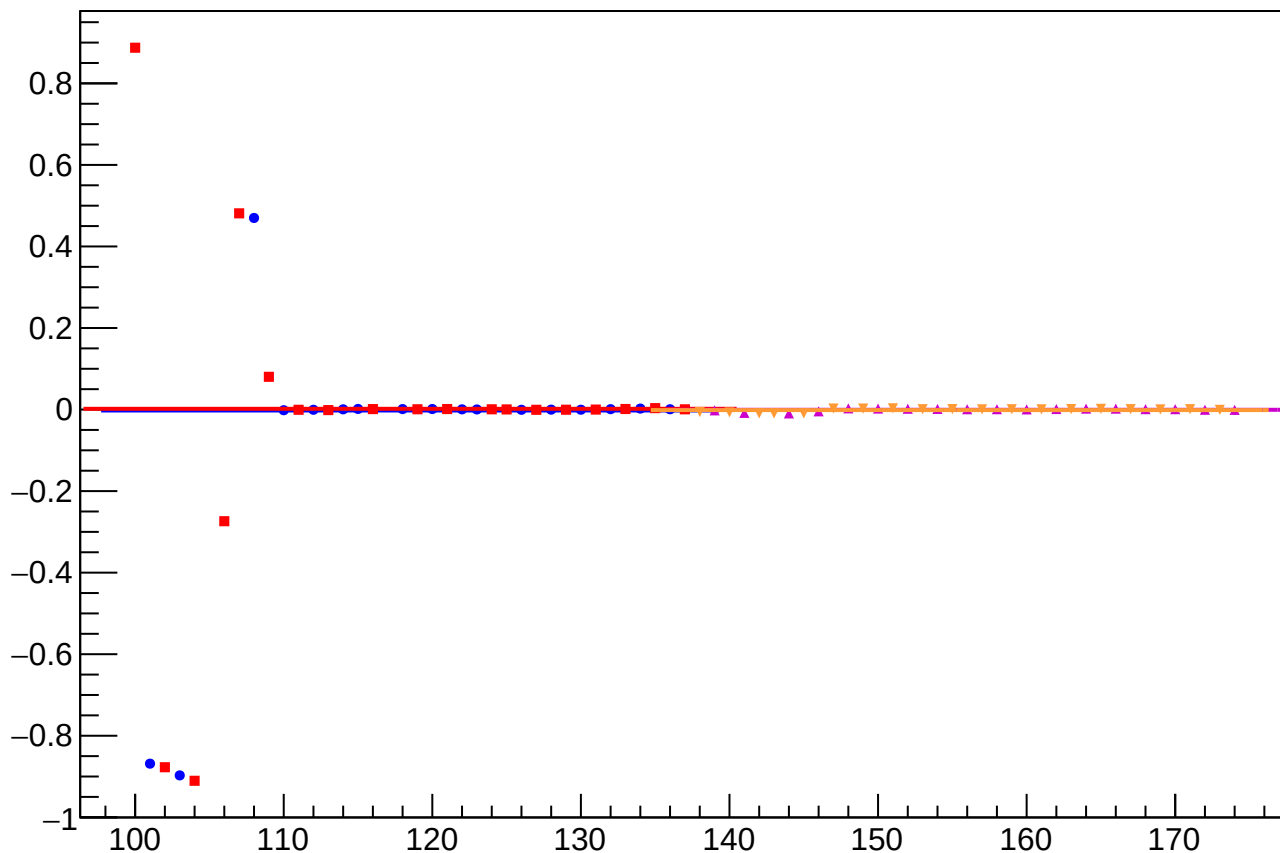
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :33101172.3/34

Out: 0.000+/-0.000 χ^2/NDF :33663817.0/37

All: 0.000+/-0.000 χ^2/NDF : 66765714.6/72

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.001+/-0.000 χ^2/NDF : 94766538.0/18

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.001+/-0.000 χ^2/NDF : 67356635.9/17

Left: -0.001+/-0.000 χ^2/NDF : 163480568.0/36

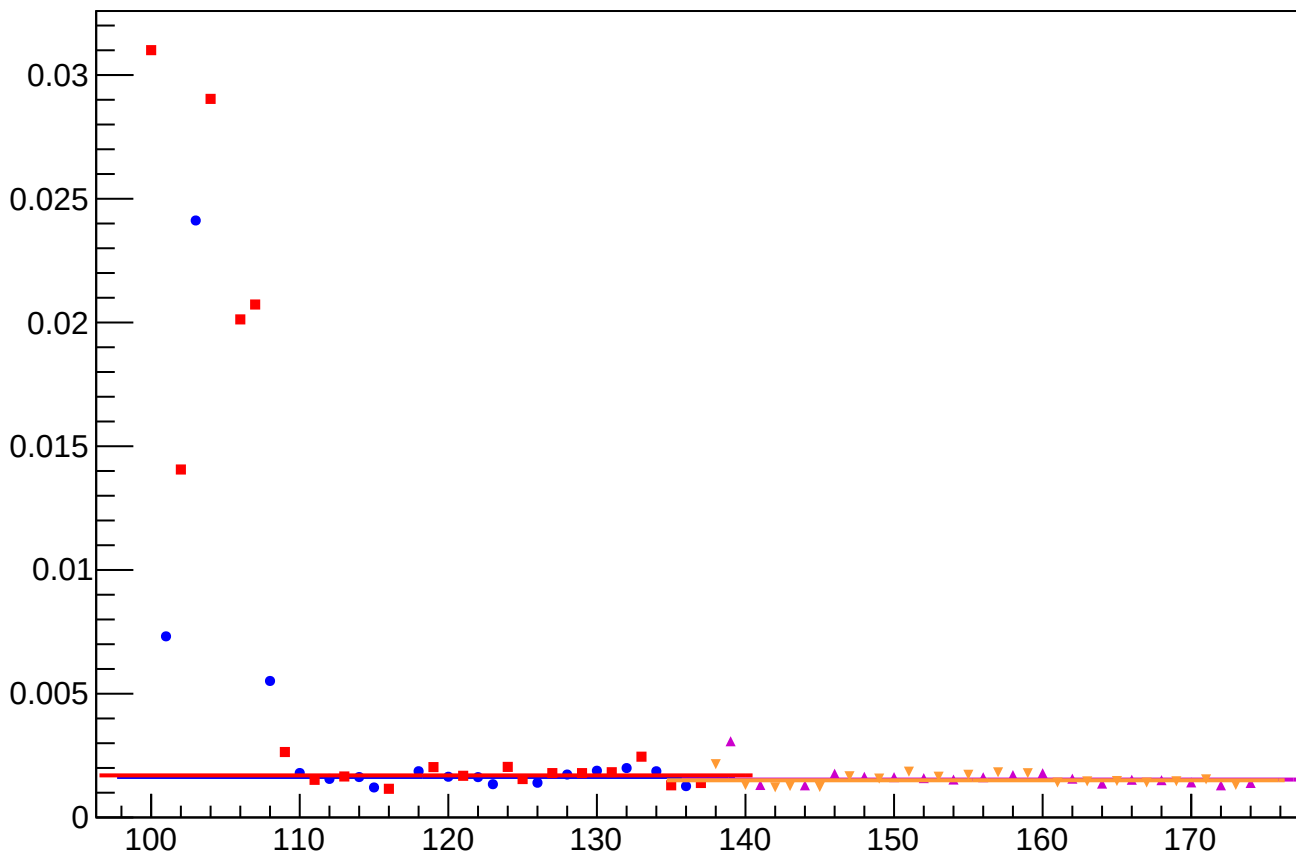
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9866352816.2/34

Out: -0.001+/-0.000 χ^2/NDF : 3148100776.7/37

All: -0.001+/-0.000 χ^2/NDF : 13015108455.8/70

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:455948.7/18

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:567647.5/17

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 1027750.4/36

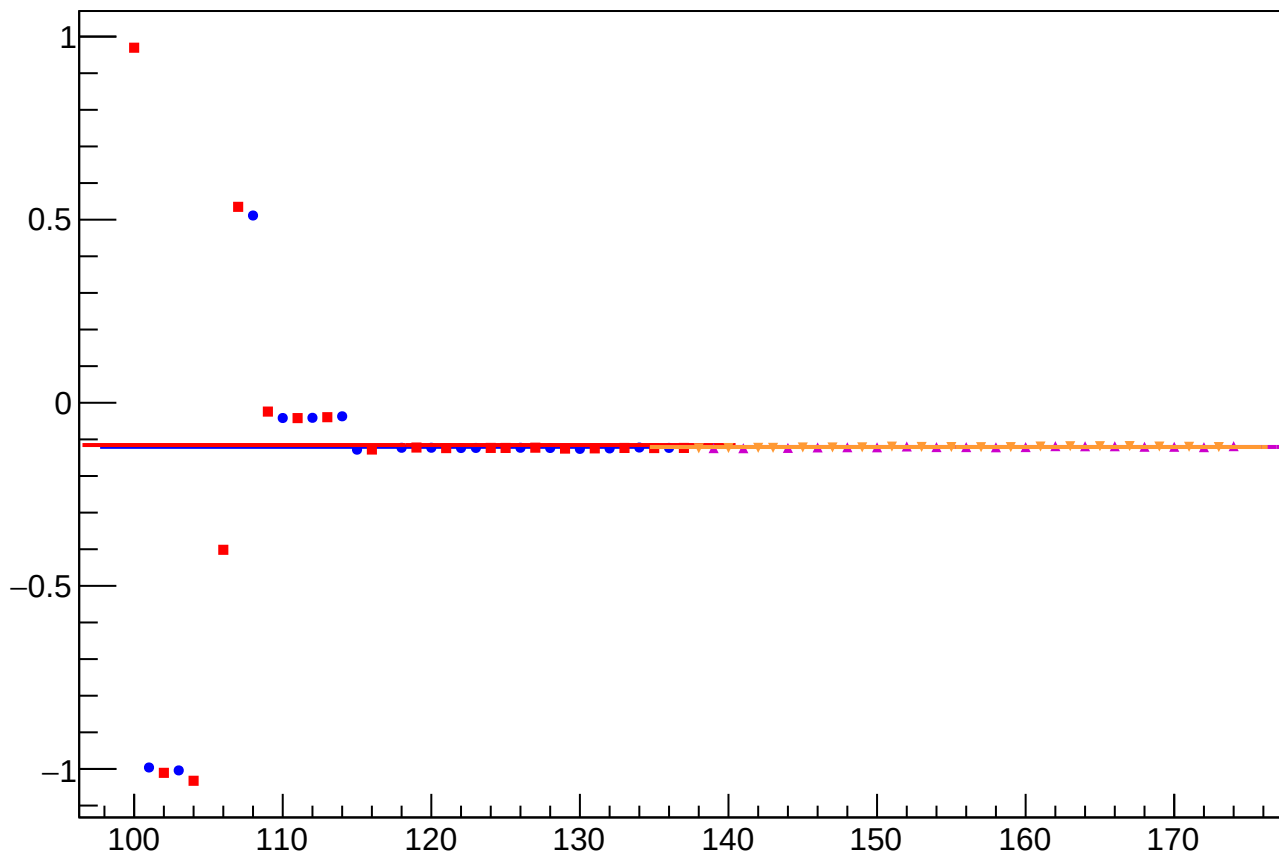
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2514605.5/34

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3574014.9/37

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6089292.2/72

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.121+/-0.000 χ^2/NDF : 32092239.7/18

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 32602429.0/17

Left: -0.121+/-0.000 χ^2/NDF : 64836220.7/36

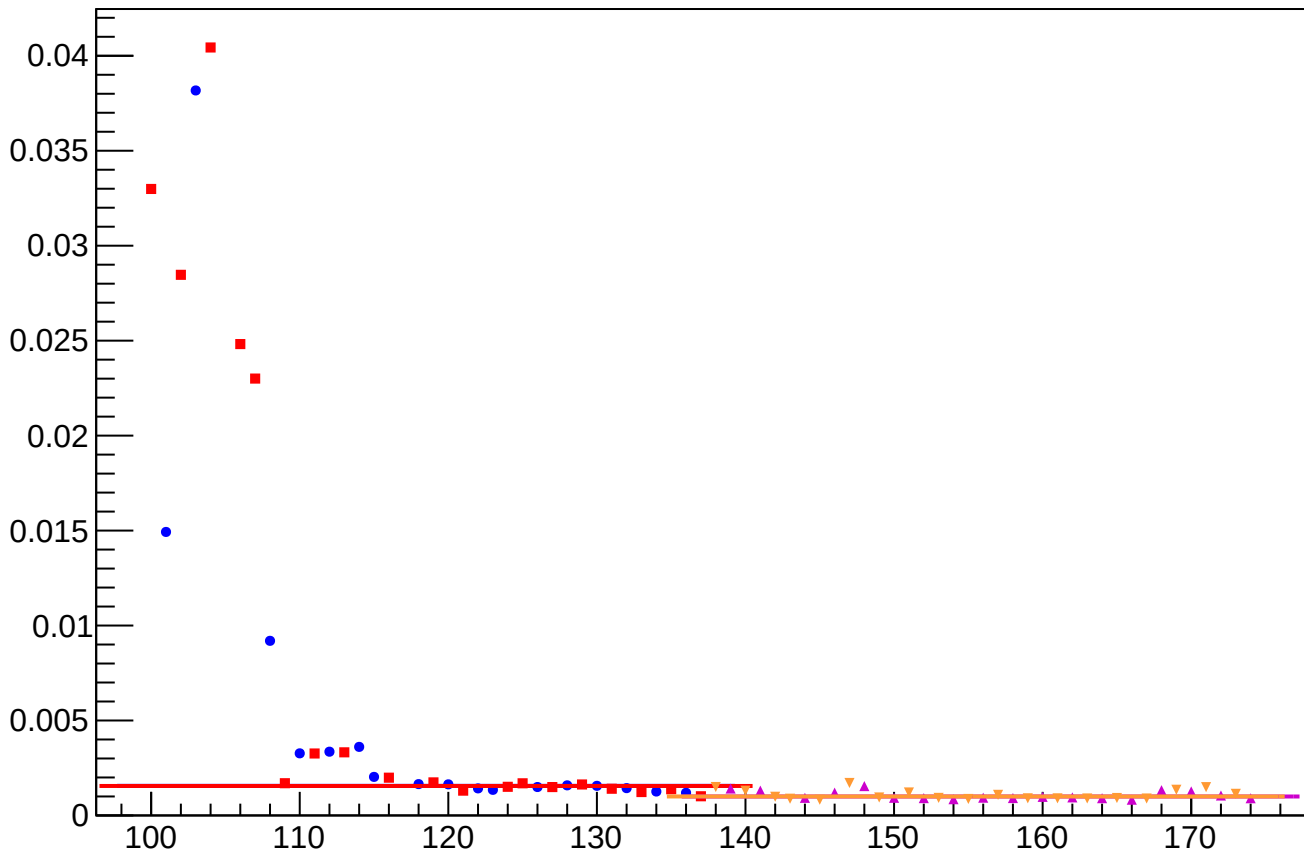
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3965097026.2/34

Out: -0.120+/-0.000 χ^2/NDF : 2537481558.8/37

All: -0.120+/-0.000 χ^2/NDF : 6504408958.0/7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2903607.4/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:1034278.9/18

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:751442.6/17

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1785758.6/36

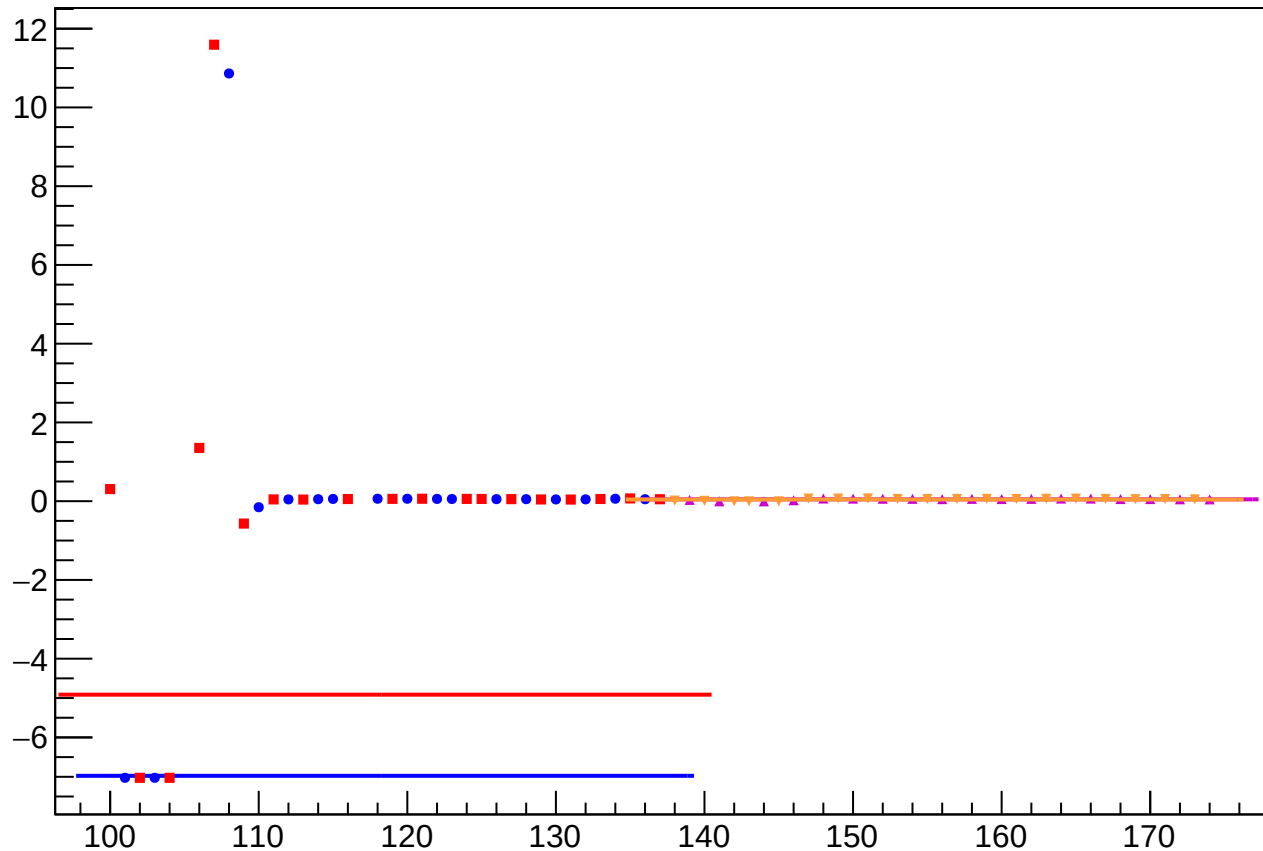
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF:4691818.9/34

Out: 0.001 $\pm$ 0.000 χ^2 /NDF:5582082.7/37

All: 0.001 $\pm$ 0.000 χ^2 /NDF: 10273902.0/72

yield_cav4dX_mean vs Slug, Sign Corrected



Left: 0.045±/-0.000 χ^2/NDF : 171510184.2/36

Right: -5.900±/-0.000 χ^2/NDF : 430340247682327.9

In: -6.937±/-0.000 χ^2/NDF : 15533269404008.9/34

Out: -4.888±/-0.000 χ^2/NDF : 368899687911878.8/18

All: -5.868±/-0.000 χ^2/NDF : 4402627838023

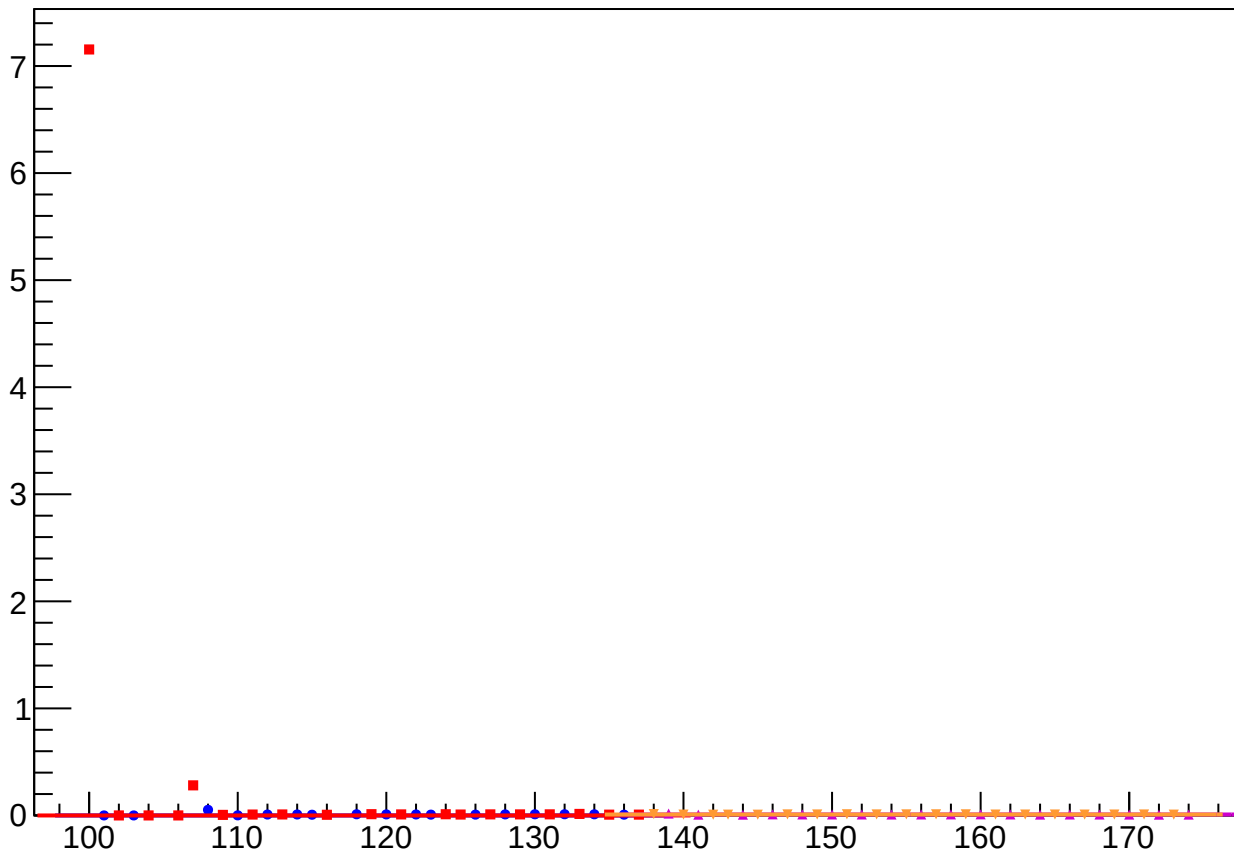
Right In: -6.975±/-0.000 χ^2/NDF : 8787948713830.4/16

Left Out: 0.043±/-0.000 χ^2/NDF : 95649150.4/18

Right Out: -4.914±/-0.000 χ^2/NDF : 365362215369689.4/18

Left In: 0.047±/-0.000 χ^2/NDF : 74629526.8/17

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF :453836.8/18

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF :572132.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1029714.6/36

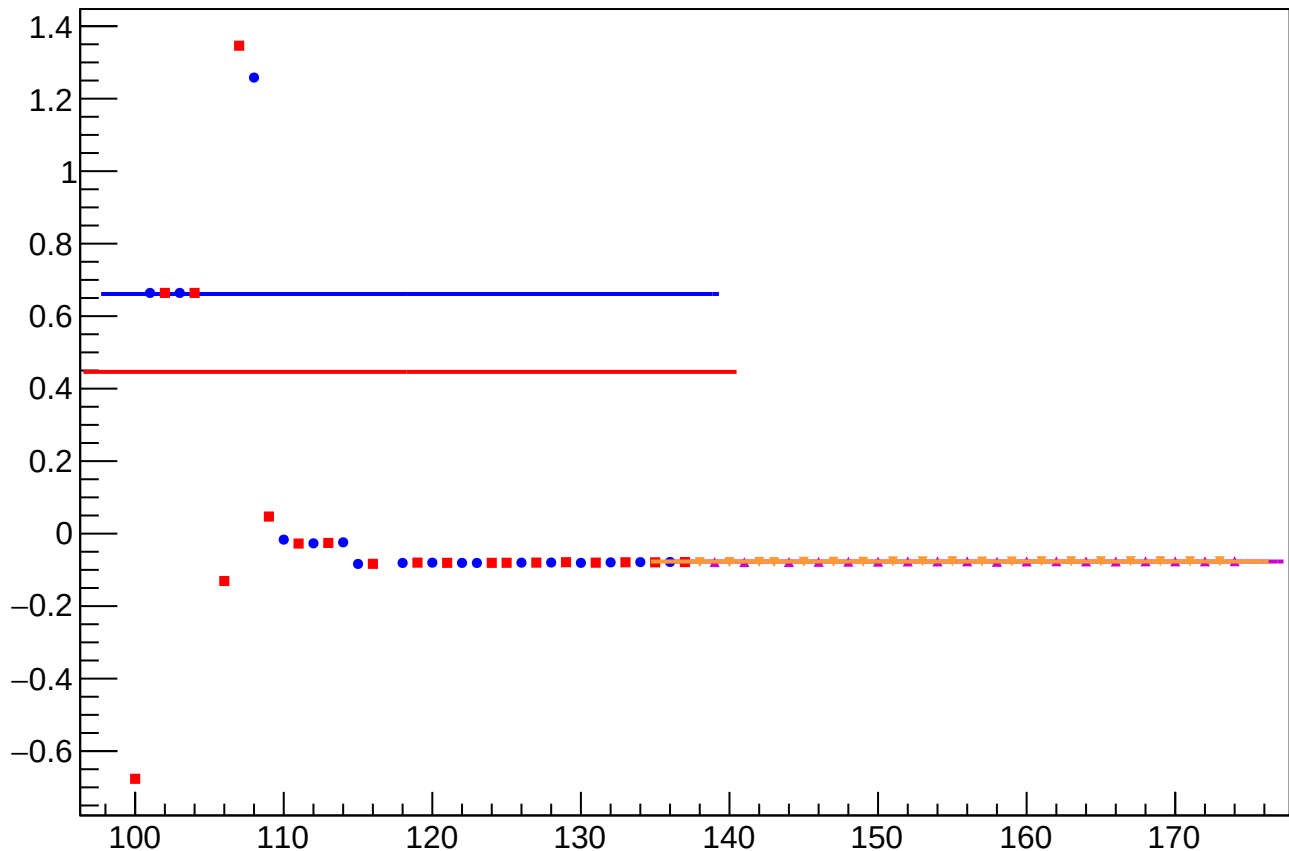
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF :30314615.2/34

Out: 0.000+/-0.000 χ^2/NDF :30953245.5/37

All: 0.000+/-0.000 χ^2/NDF : 61268827.0/72

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 61787753.7/36

Left Out: -0.077+/-0.000

χ^2/NDF : 35172538.0/18

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.649+/-0.000

χ^2/NDF : 28123992147276.1/34

Out: 0.439+/-0.000

χ^2/NDF : 416964056878122.2/3

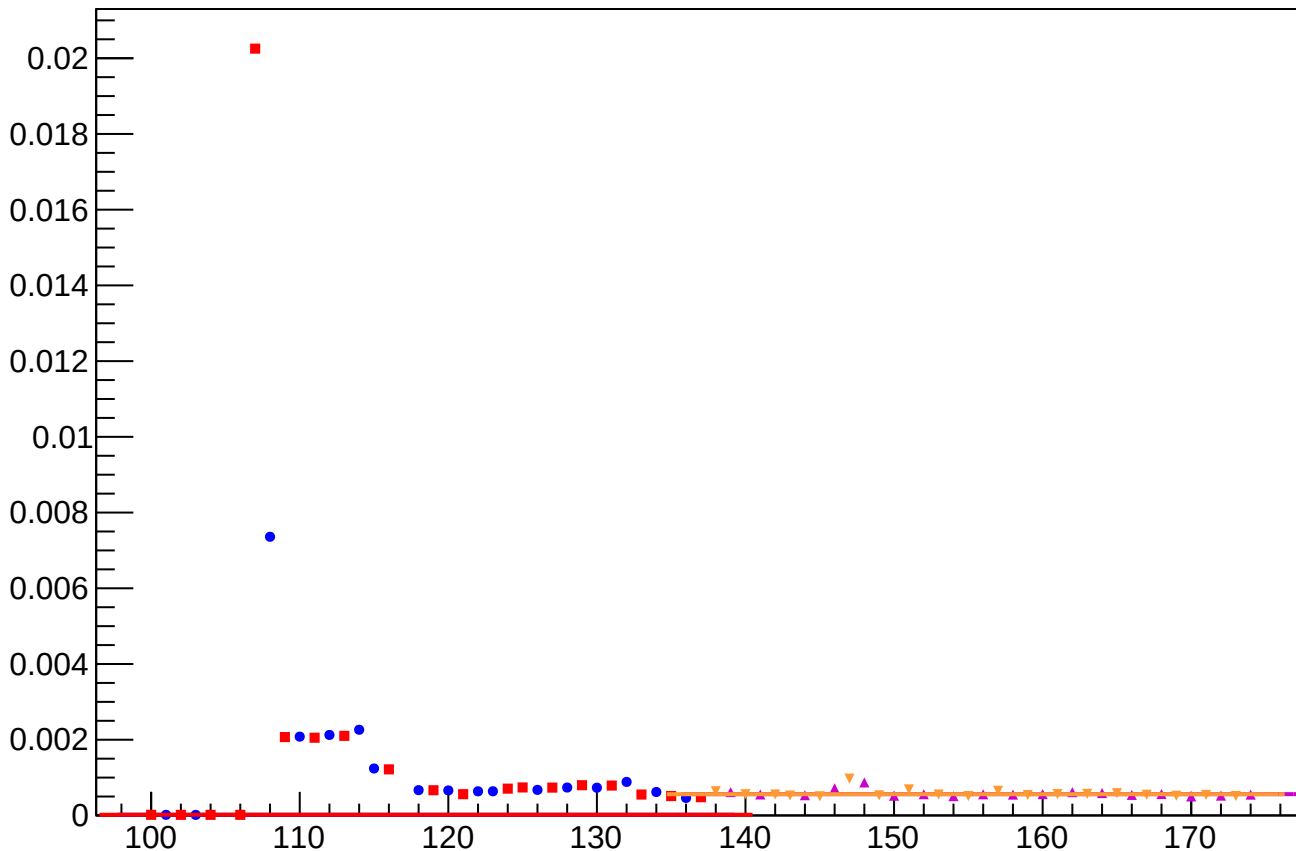
Left In: -0.077+/-0.000

χ^2/NDF : 26614676.5/17

All: 0.539+/-0.000

χ^2/NDF : 50665344430583

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000

χ^2/NDF : 439362.8/18

Right Out: 0.000+/-0.000

χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000

χ^2/NDF : 352320.0/17

Left: 0.001+/-0.000

χ^2/NDF : 791814.6/36

Right: 0.000+/-0.000

χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000

χ^2/NDF : 34780712.4/34

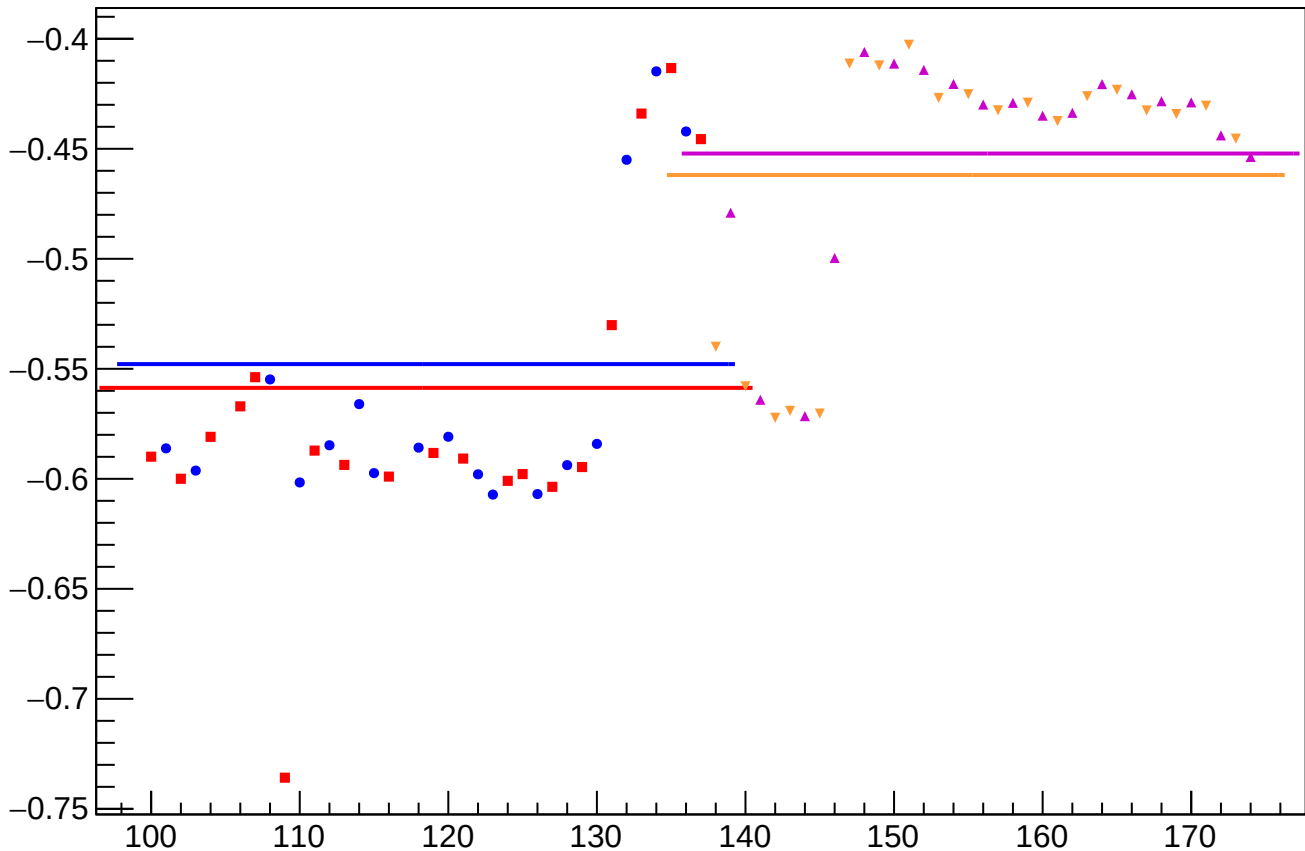
Out: 0.000+/-0.000

χ^2/NDF : 34774330.0/37

All: 0.000+/-0.000

χ^2/NDF : 69556283.3/72

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.462+/-0.000 χ^2/NDF : 106305981.5/18

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.452+/-0.000 χ^2/NDF : 75223757.0/17

Left: -0.457+/-0.000 χ^2/NDF : 182896793.3/36

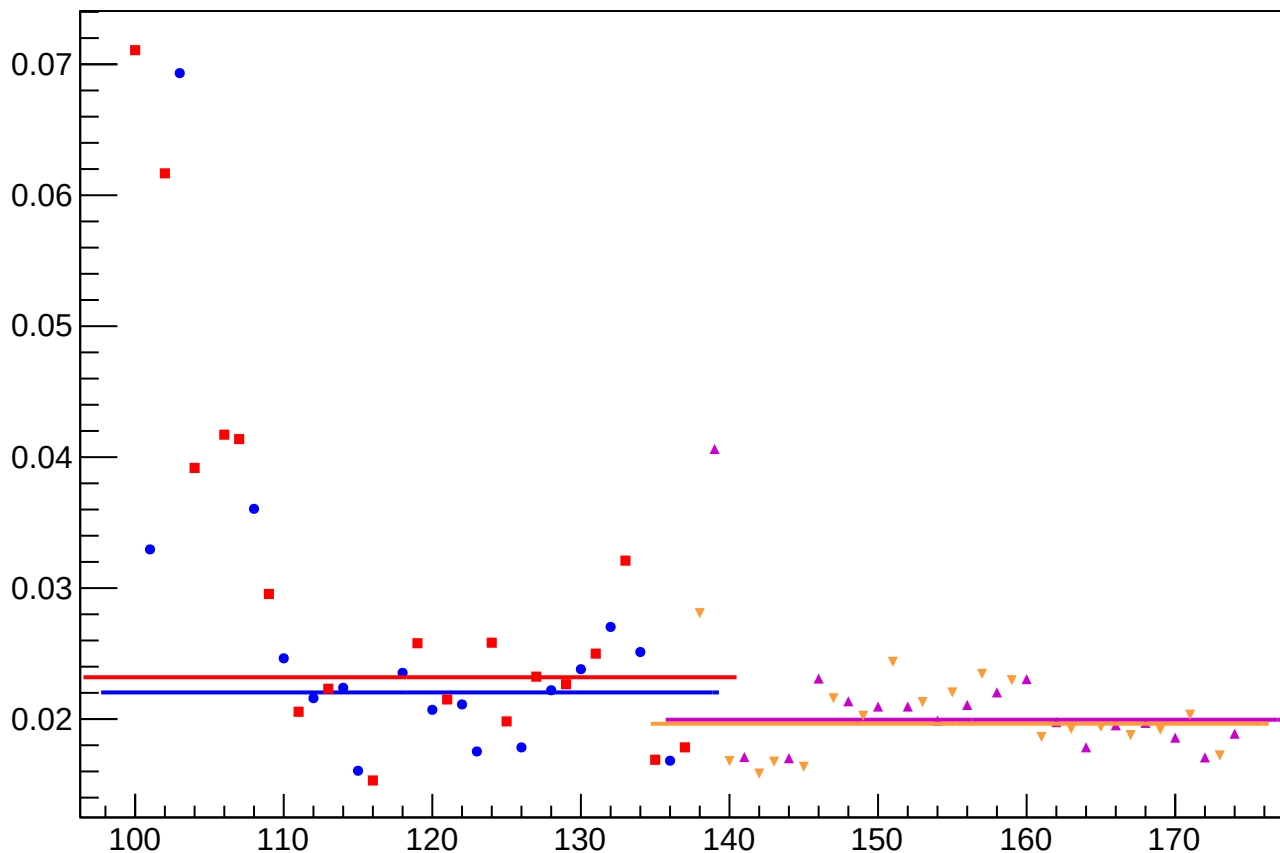
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.478+/-0.000 χ^2/NDF : 193852350.0/34

Out: -0.486+/-0.000 χ^2/NDF : 241315725.6/37

All: -0.482+/-0.000 χ^2/NDF : 436446425.1/72

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 424900.0/18

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 551857.2/17

Left: 0.020+/-0.000 χ^2/NDF : 979403.8/36

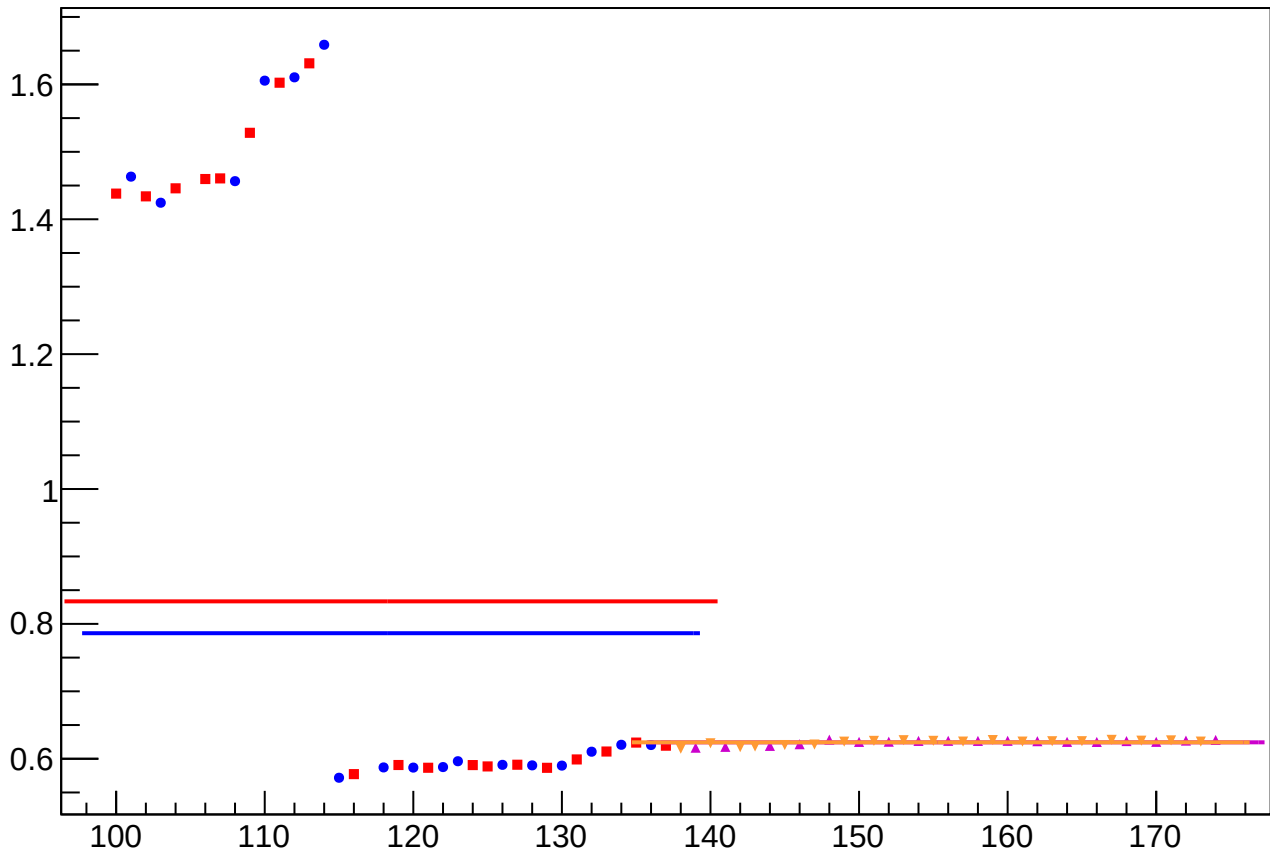
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1577263.3/34

Out: 0.021+/-0.000 χ^2/NDF : 1768426.7/37

All: 0.021+/-0.000 χ^2/NDF : 3345713.2/72

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786+/-0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.624+/-0.000 χ^2/NDF :1241733.0/18

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624+/-0.000 χ^2/NDF :1034848.3/17

Left: 0.624+/-0.000 χ^2/NDF : 2276584.4/36

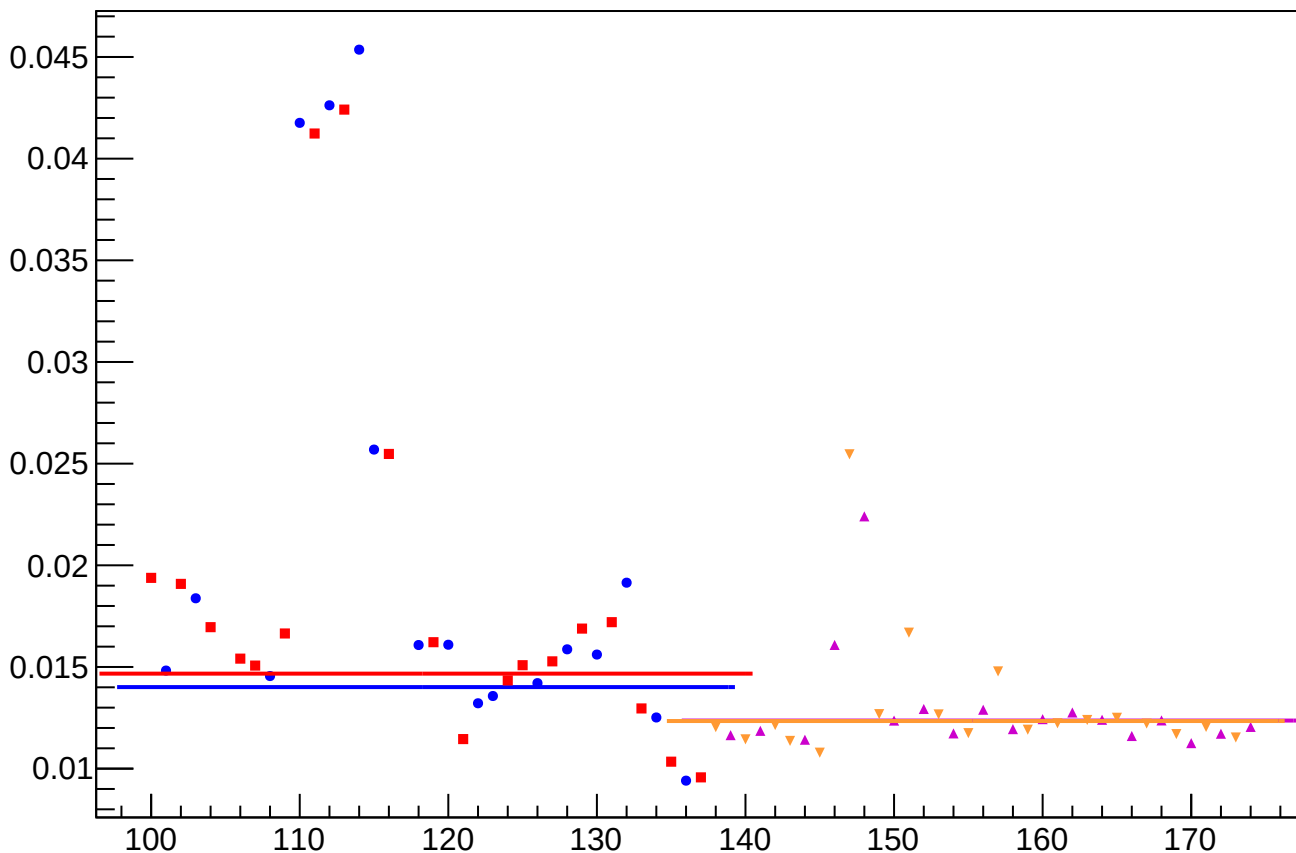
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.665+/-0.000 χ^2/NDF :4159955868.9/34

Out: 0.674+/-0.000 χ^2/NDF :5086087853.6/37

All: 0.670+/-0.000 χ^2/NDF : 9251651448.5/72

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF :604631.3/18

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF :441492.4/17

Left: 0.012+/-0.000 χ^2/NDF : 1046170.6/36

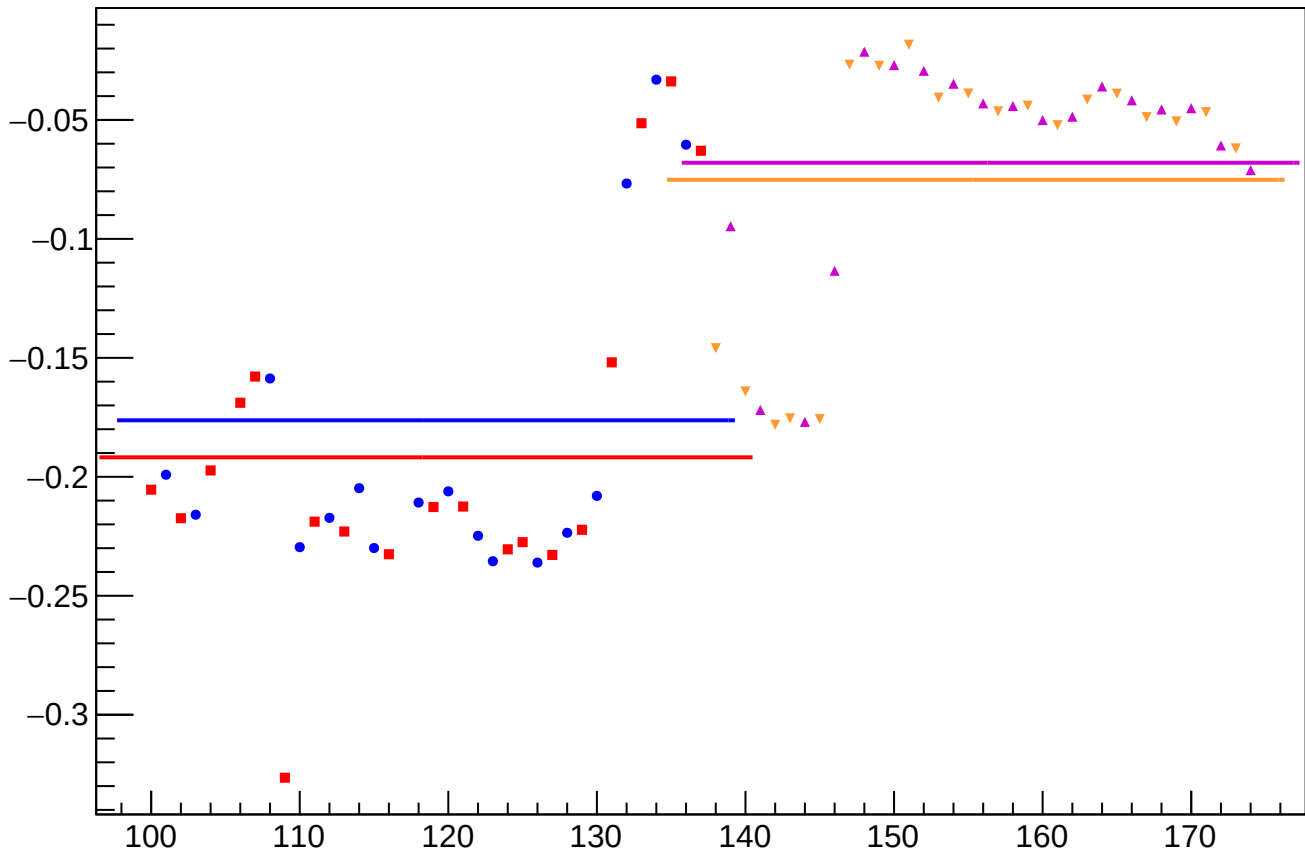
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1964079.4/34

Out: 0.013+/-0.000 χ^2/NDF :2098828.3/37

All: 0.013+/-0.000 χ^2/NDF : 4064749.8/72

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.075+/-0.000 χ^2/NDF : 101210455.6/18

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.068+/-0.000 χ^2/NDF : 75601153.5/17

Left: -0.072+/-0.000 χ^2/NDF : 177608216.1/36

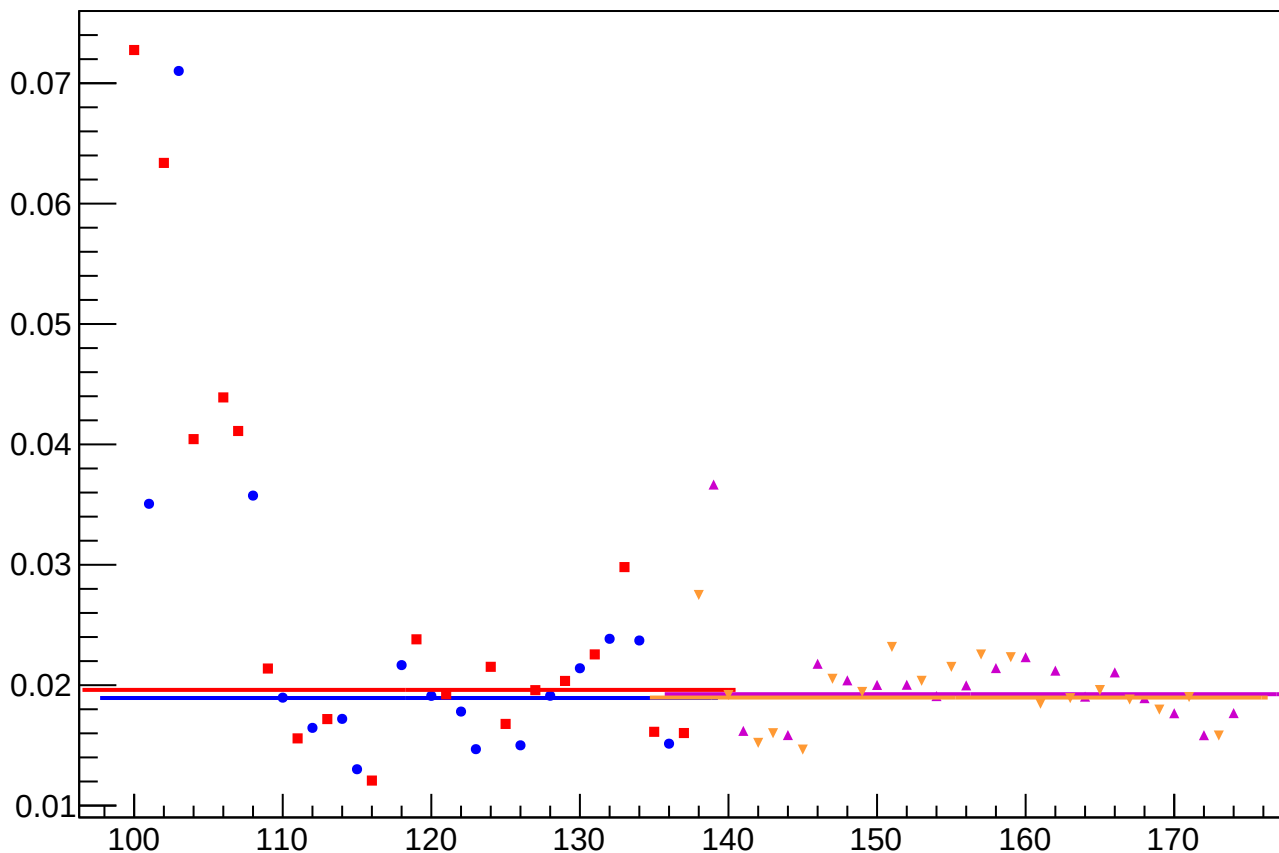
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.102+/-0.000 χ^2/NDF : 257892307.4/34

Out: -0.110+/-0.000 χ^2/NDF : 314038884.3/37

All: -0.106+/-0.000 χ^2/NDF : 573319561.5/72

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.019+/-0.000 χ^2/NDF : 476856.8/18

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 560913.6/17

Left: 0.019+/-0.000 χ^2/NDF : 1040182.7/36

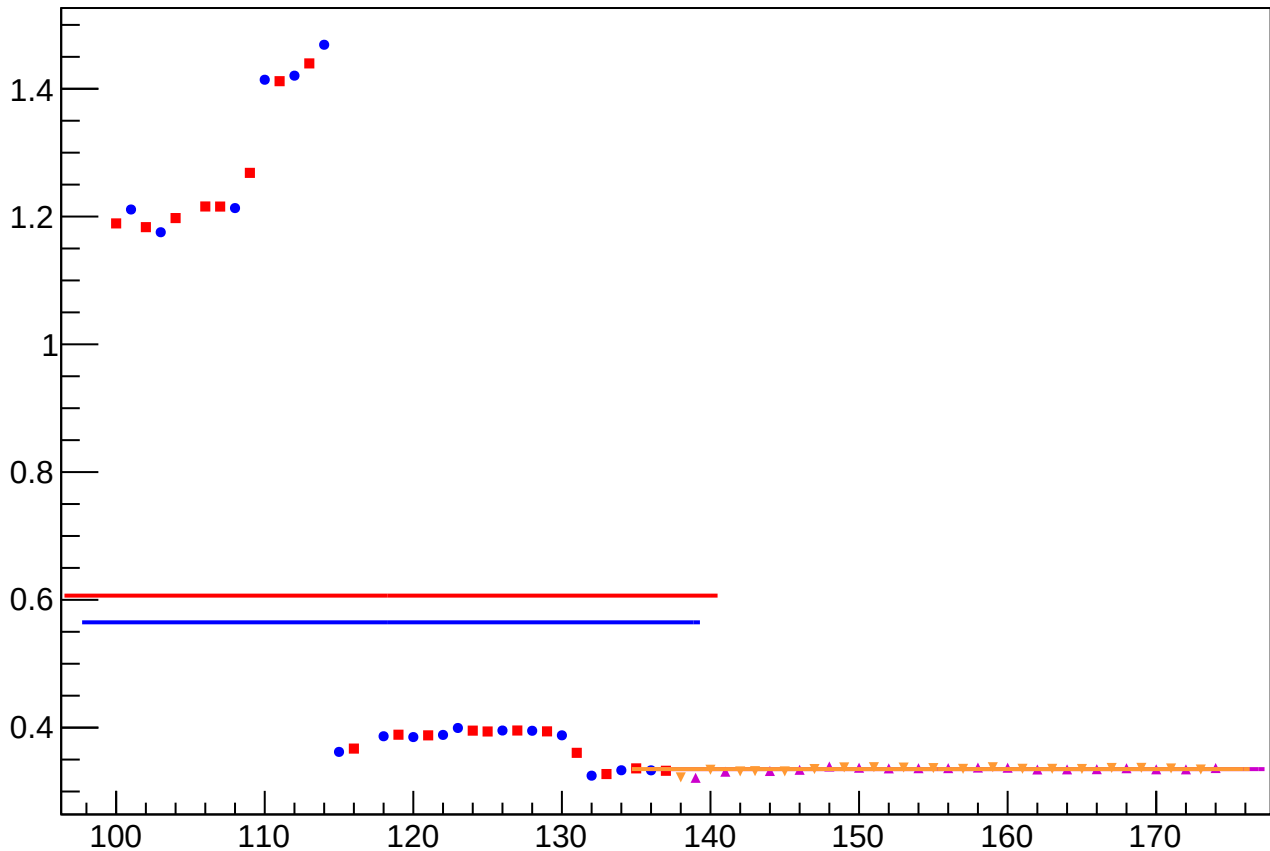
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1768682.3/34

Out: 0.019+/-0.000 χ^2/NDF : 1942203.9/37

All: 0.019+/-0.000 χ^2/NDF : 3710891.5/72

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565 $\pm$ 0.000 χ^2 /NDF: 5030969499.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1134343.5/18

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5513752213.8/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1191610.0/17

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2326277.1/36

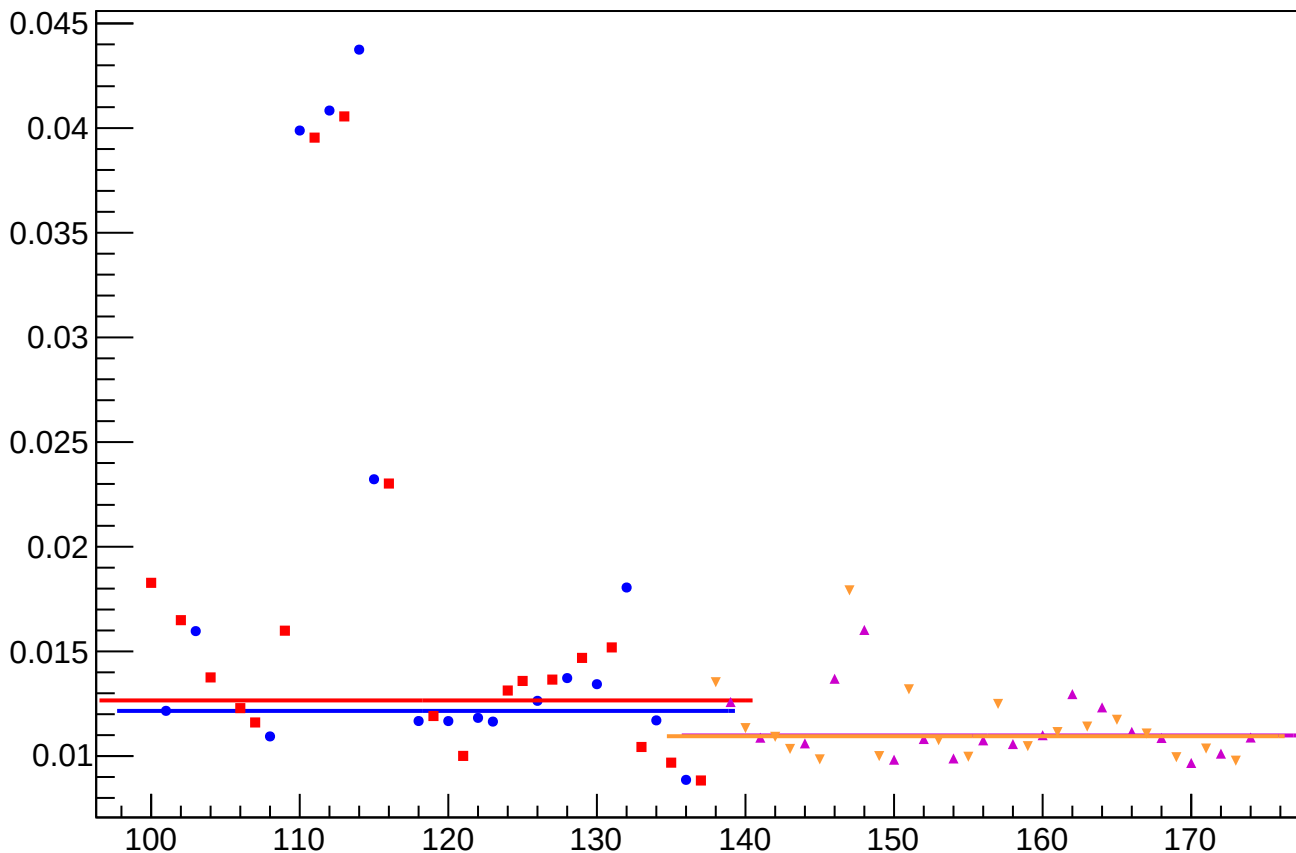
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.395 $\pm$ 0.000 χ^2 /NDF:6532481254.7/34

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:7557296976.6/37

All: 0.398 $\pm$ 0.000 χ^2 /NDF: 14094039314.9/71

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1309888.8/16

Left Out: 0.011+/-0.000 χ^2/NDF : 450050.2/18

Right Out: 0.013+/-0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011+/-0.000 χ^2/NDF : 368173.9/17

Left: 0.011+/-0.000 χ^2/NDF : 818374.4/36

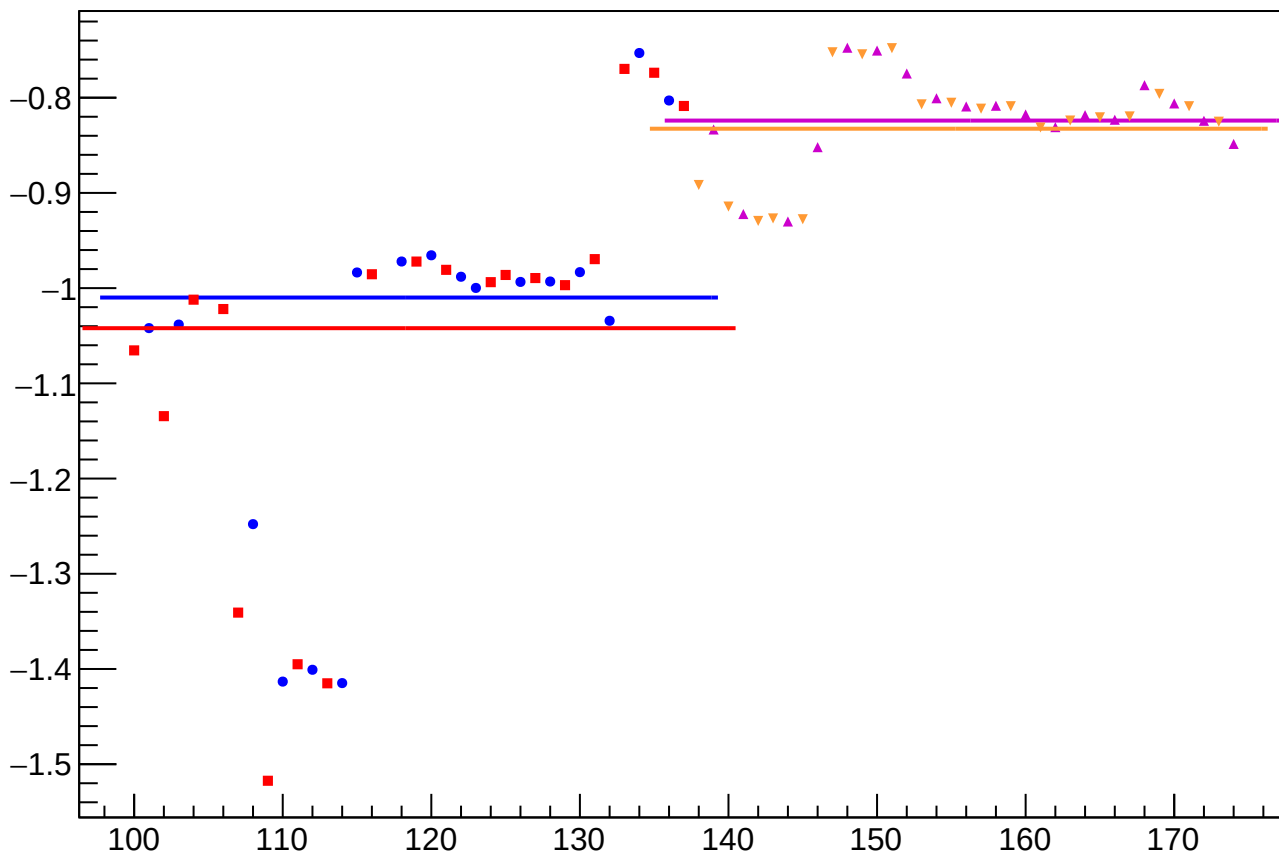
Right: 0.012+/-0.000 χ^2/NDF : 2589989.8/35

In: 0.011+/-0.000 χ^2/NDF : 1756194.7/34

Out: 0.011+/-0.000 χ^2/NDF : 1882775.3/37

All: 0.011+/-0.000 χ^2/NDF : 3639957.5/72

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 $\pm$ 0.000 χ^2 /NDF: 387650332.0/16

Left Out: -0.833 $\pm$ 0.000 χ^2 /NDF: 97699301.4/18

Right Out: -1.042 $\pm$ 0.000 χ^2 /NDF: 530106141.8/18

Left In: -0.824 $\pm$ 0.000 χ^2 /NDF: 74785419.4/17

Left: -0.828 $\pm$ 0.000 χ^2 /NDF: 173584484.5/36

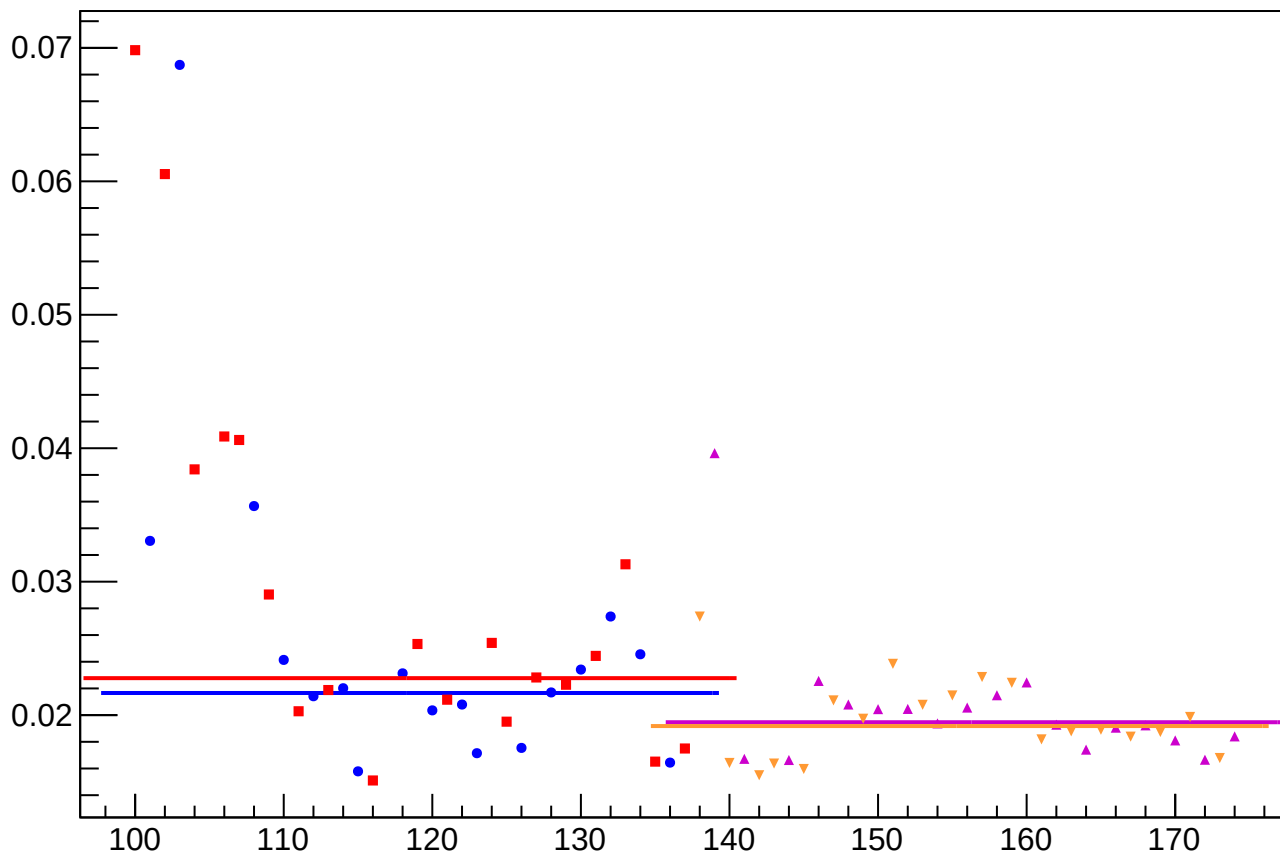
Right: -1.026 $\pm$ 0.000 χ^2 /NDF: 923225272.3/35

In: -0.874 $\pm$ 0.000 χ^2 /NDF: 736562910.5/34

Out: -0.885 $\pm$ 0.000 χ^2 /NDF: 965554243.4/37

All: -0.880 $\pm$ 0.000 χ^2 /NDF: 1704521380.1/7

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 423296.8/18

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 549468.5/17

Left: 0.019+/-0.000 χ^2/NDF : 975234.1/36

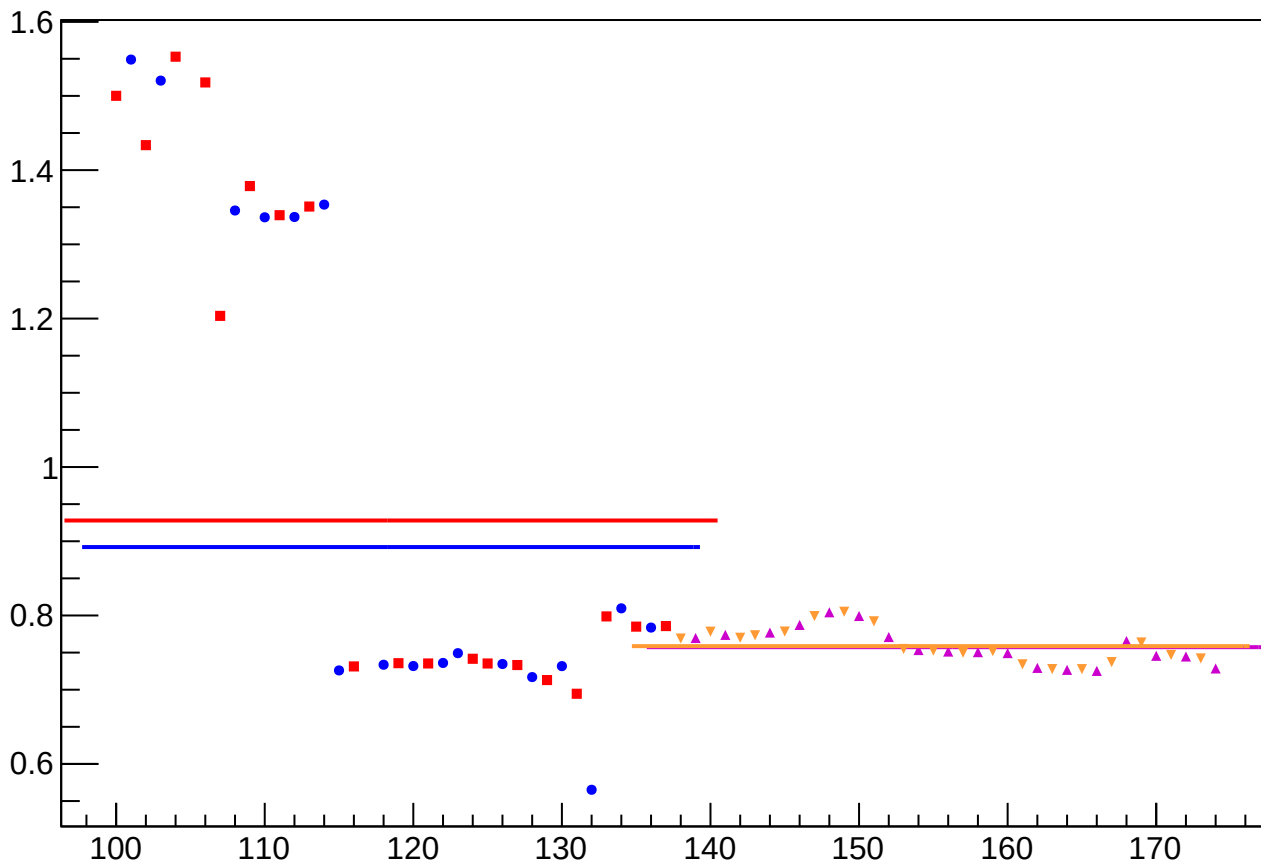
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1609181.0/34

Out: 0.020+/-0.000 χ^2/NDF : 1774274.7/37

All: 0.020+/-0.000 χ^2/NDF : 3383474.0/72

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892+/-0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.759+/-0.000 χ^2/NDF : 38631092.4/18

Right Out: 0.928+/-0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.757+/-0.000 χ^2/NDF : 39369588.6/17

Left: 0.758+/-0.000 χ^2/NDF : 78085357.5/36

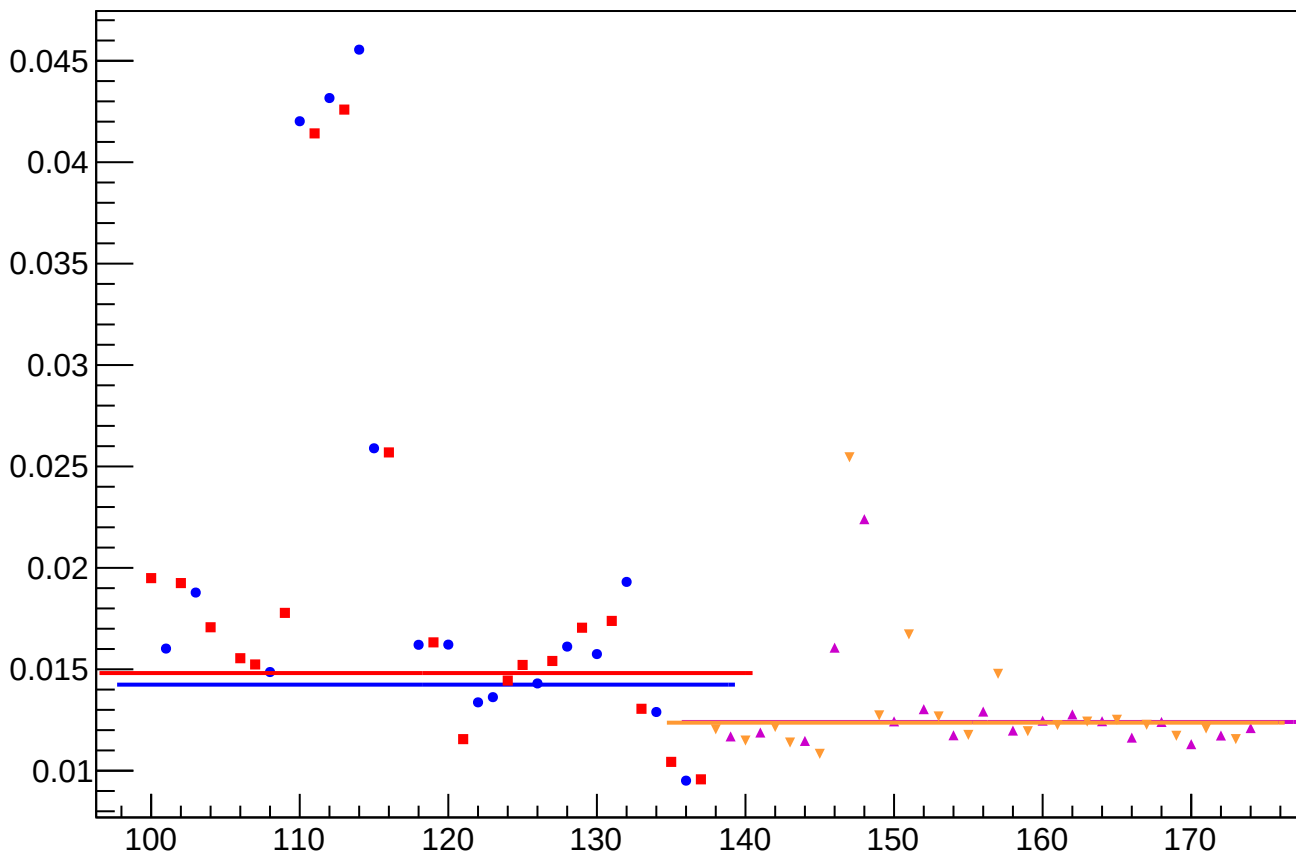
Right: 0.910+/-0.000 χ^2/NDF : 4868922187.9/35

In: 0.790+/-0.000 χ^2/NDF : 2836438006.6/34

Out: 0.799+/-0.000 χ^2/NDF : 3073349216.8/37

All: 0.794+/-0.000 χ^2/NDF : 5914057150.5/72

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012 $\pm$ 0.000 χ^2/NDF : 600034.7/18

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 436945.4/17

Left: 0.012 $\pm$ 0.000 χ^2/NDF : 1037084.6/36

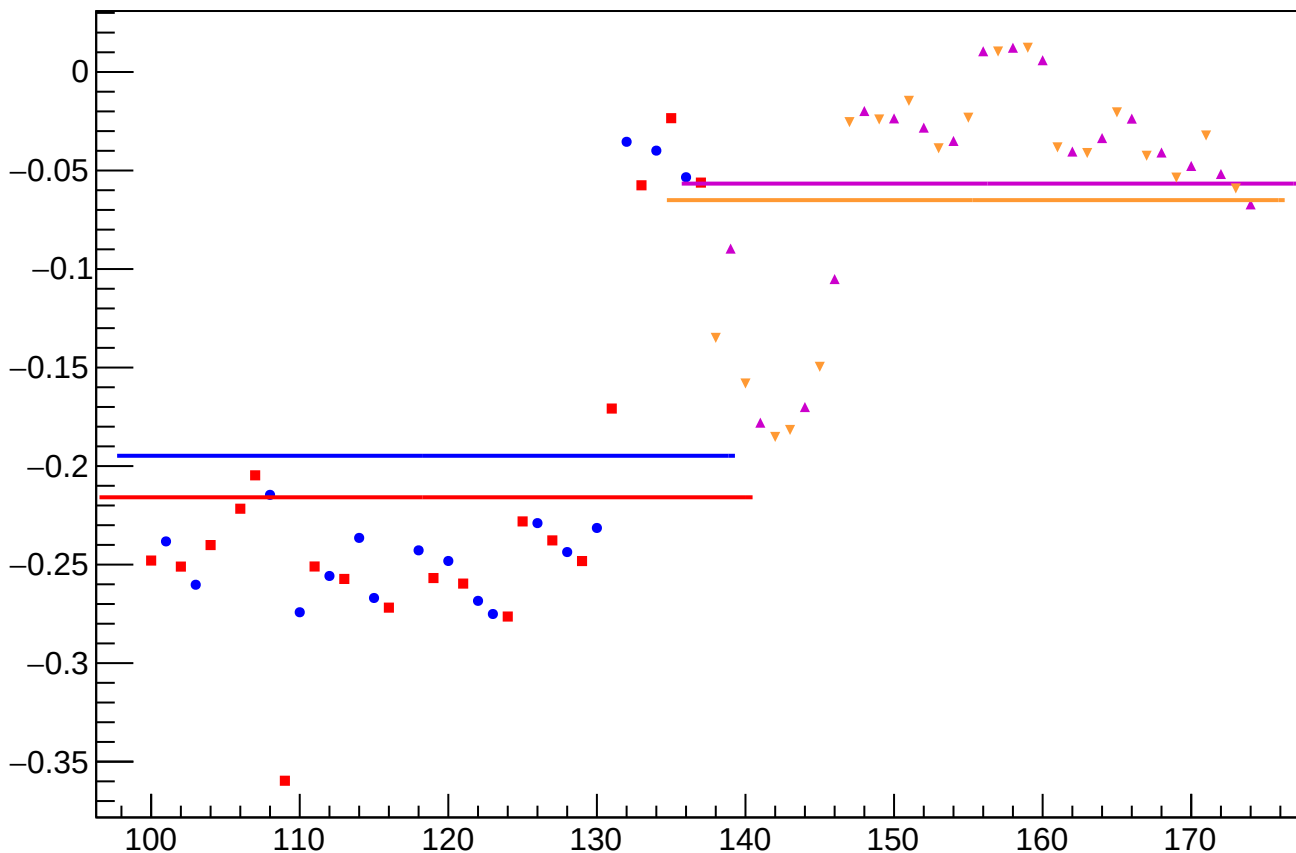
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2/NDF : 1995309.2/34

Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2123512.4/37

All: 0.013 $\pm$ 0.000 χ^2/NDF : 4119886.8/72

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.065+/-0.000 χ^2/NDF : 117138993.6/18

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.057+/-0.000 χ^2/NDF : 97686818.2/17

Left: -0.061+/-0.000 χ^2/NDF : 215921246.0/36

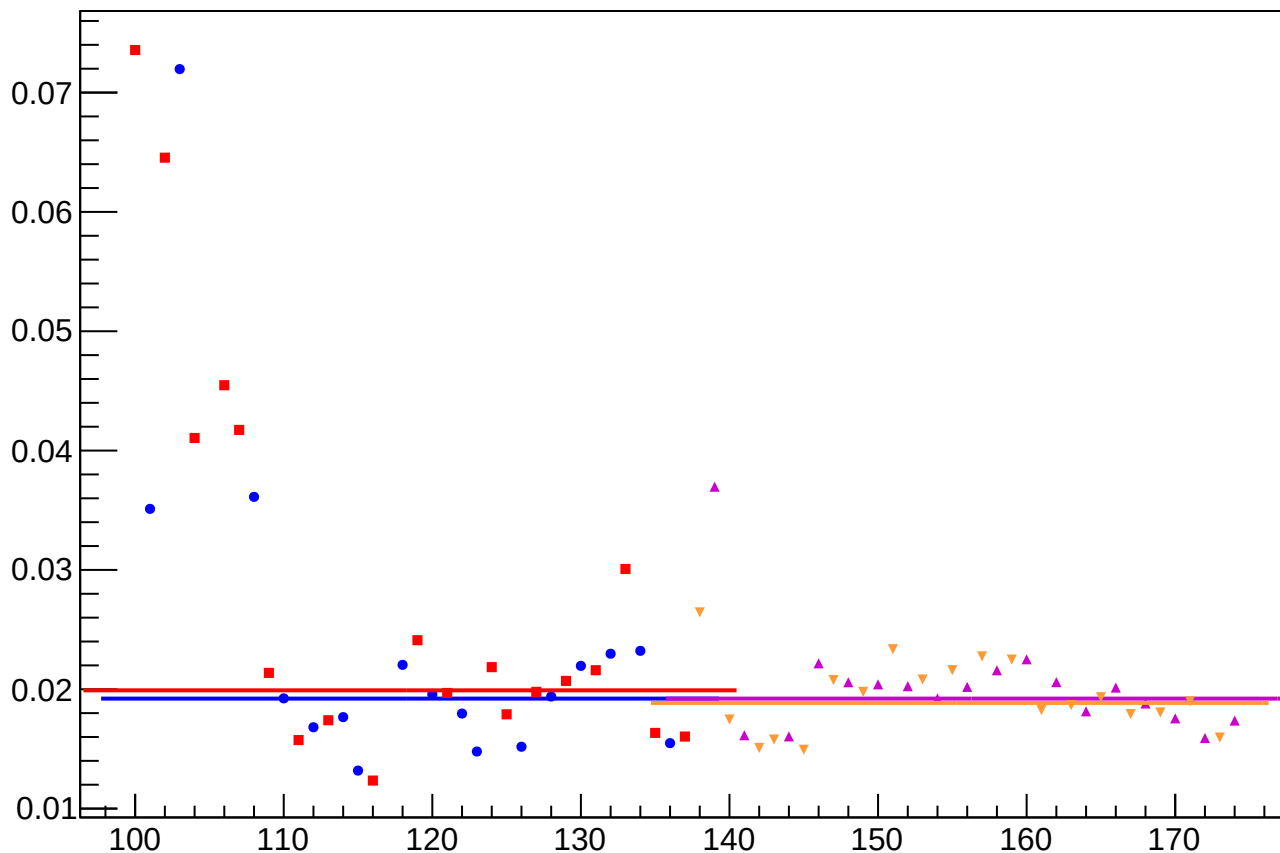
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.099+/-0.000 χ^2/NDF : 385310401.2/34

Out: -0.109+/-0.000 χ^2/NDF : 440290039.6/37

All: -0.104+/-0.000 χ^2/NDF : 827575868.0/72

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 474190.9/18

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 573463.7/17

Left: 0.019+/-0.000 χ^2/NDF : 1051703.9/36

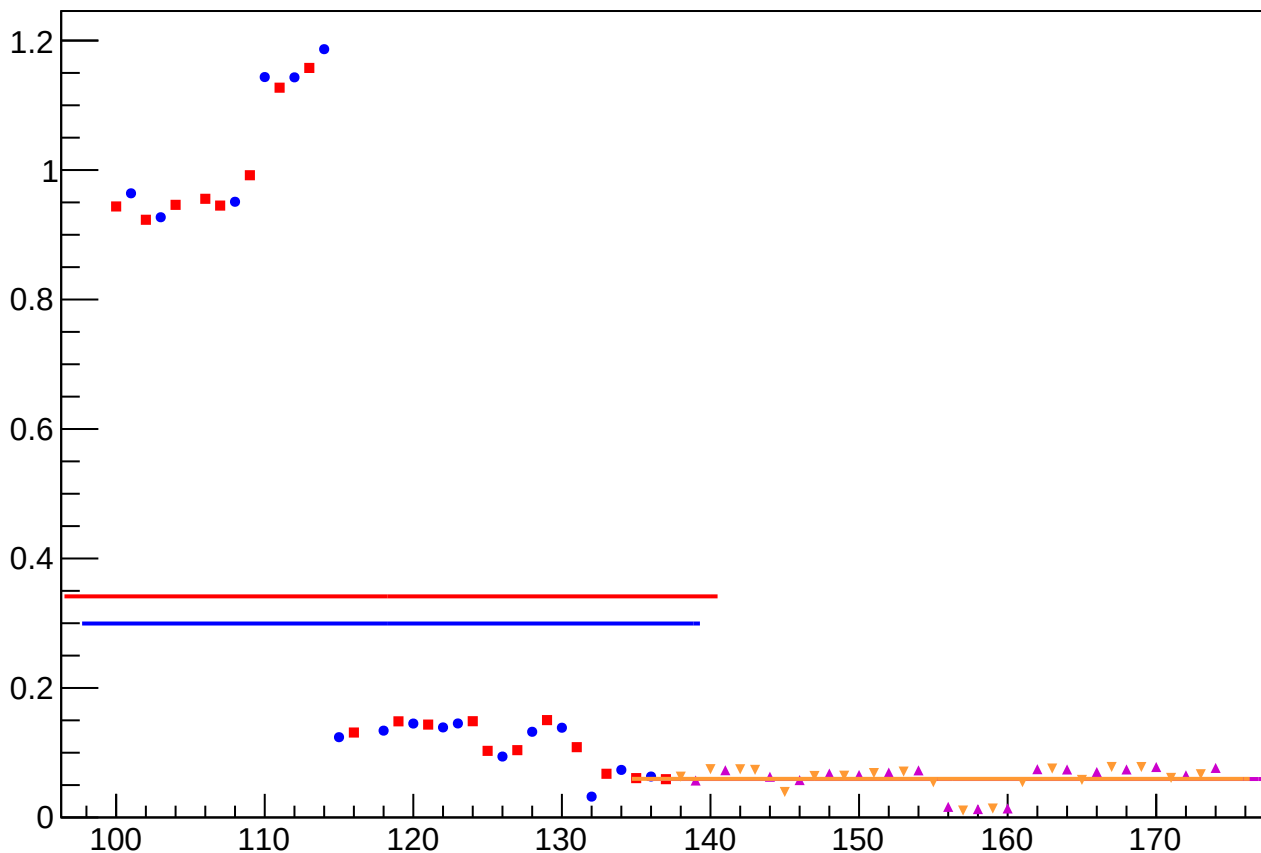
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1750549.1/34

Out: 0.019+/-0.000 χ^2/NDF : 1941790.3/37

All: 0.019+/-0.000 χ^2/NDF : 3692473.4/72

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.060+/-0.000 χ^2/NDF : 43853533.9/18

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.059+/-0.000 χ^2/NDF : 57187911.1/17

Left: 0.060+/-0.000 χ^2/NDF : 101045784.1/36

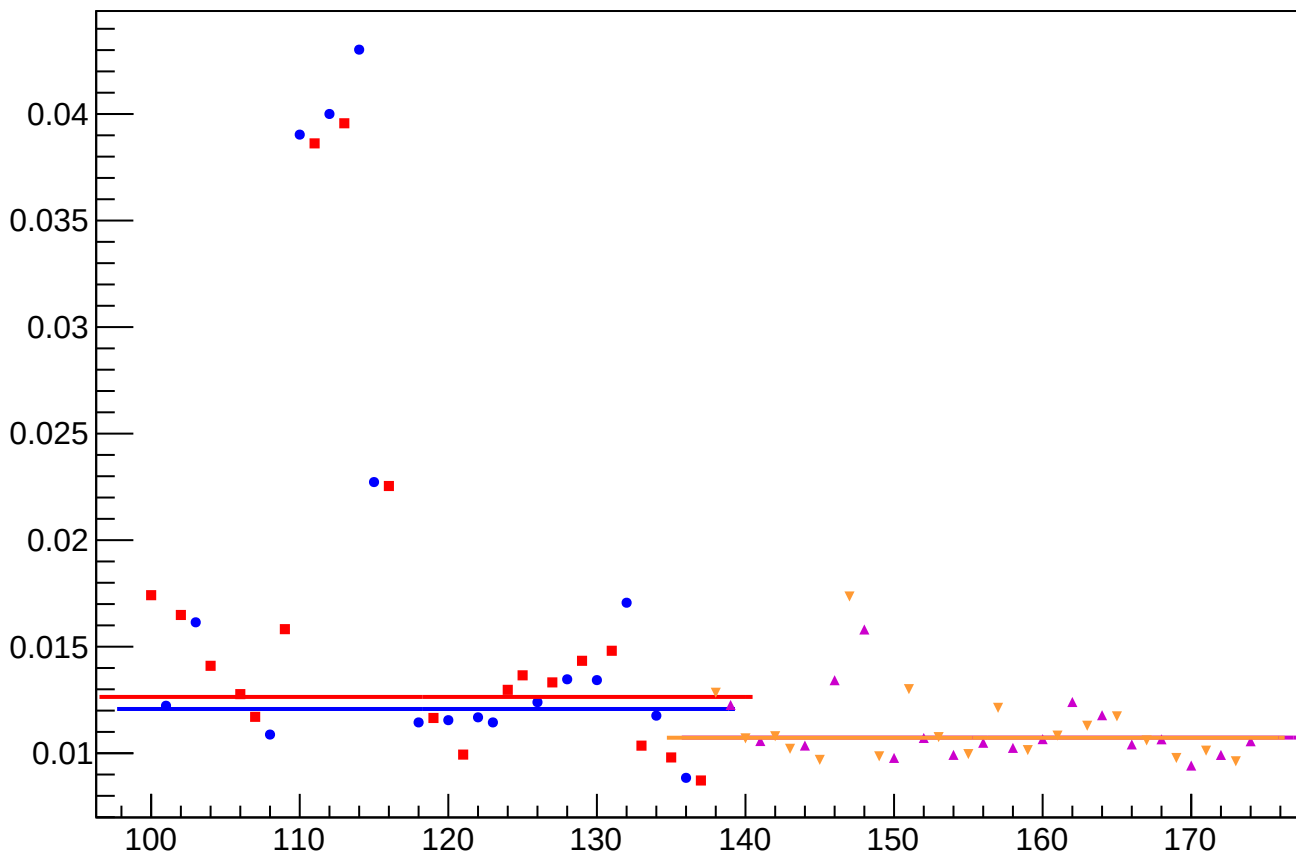
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.120+/-0.000 χ^2/NDF : 6898431462.3/34

Out: 0.127+/-0.000 χ^2/NDF : 7722686334.5/37

All: 0.124+/-0.000 χ^2/NDF : 14624870389.1/71

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:420446.4/18

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:349554.1/17

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 770005.3/36

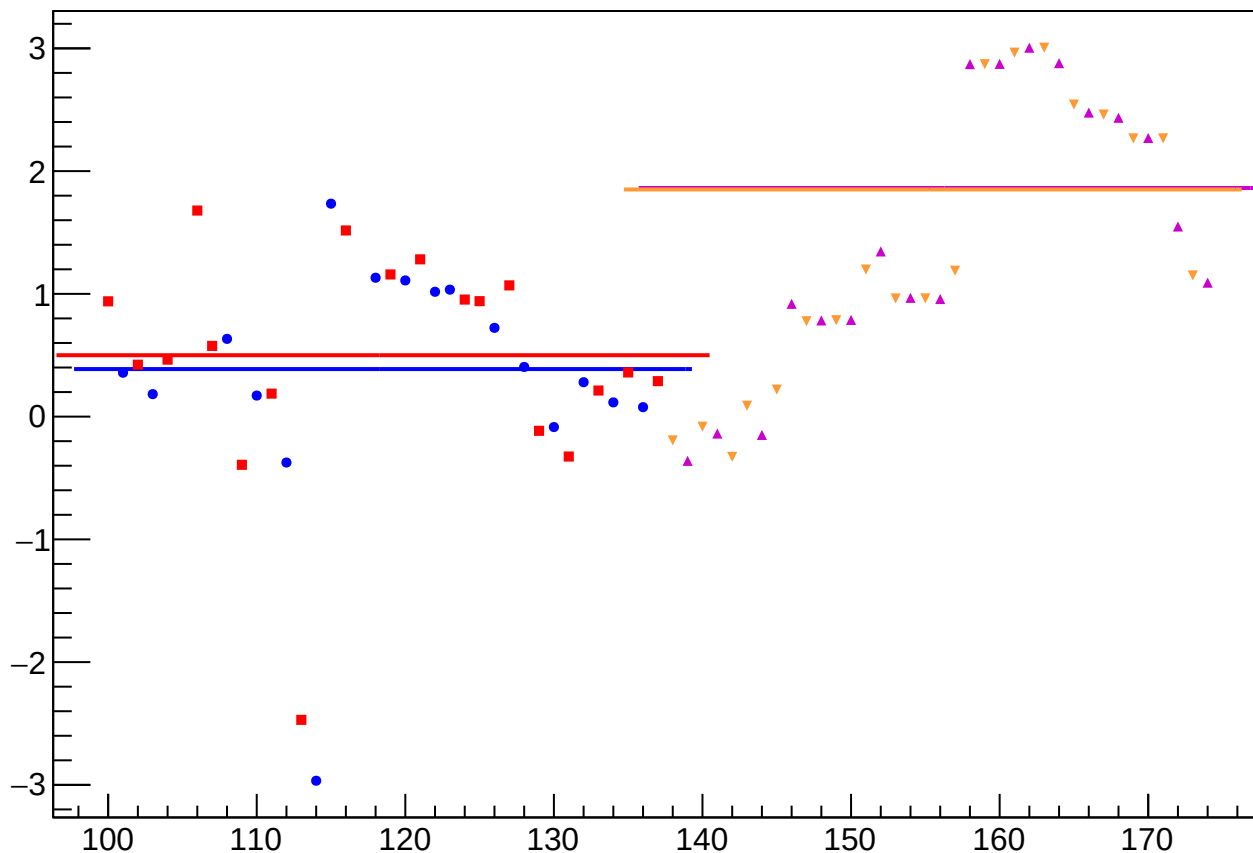
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1736399.7/34

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1863909.5/37

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3602252.1/72

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2 /NDF: 247912593.5/16

Left Out: 1.850 $\pm$ 0.000 χ^2 /NDF:28377005049.1/18

Right Out: 0.500 $\pm$ 0.000 χ^2 /NDF: 983360928.1/18

Left In: 1.862 $\pm$ 0.000 χ^2 /NDF:30151643931.0/17

Left: 1.857 $\pm$ 0.000 χ^2 /NDF: 58531413321.3/36

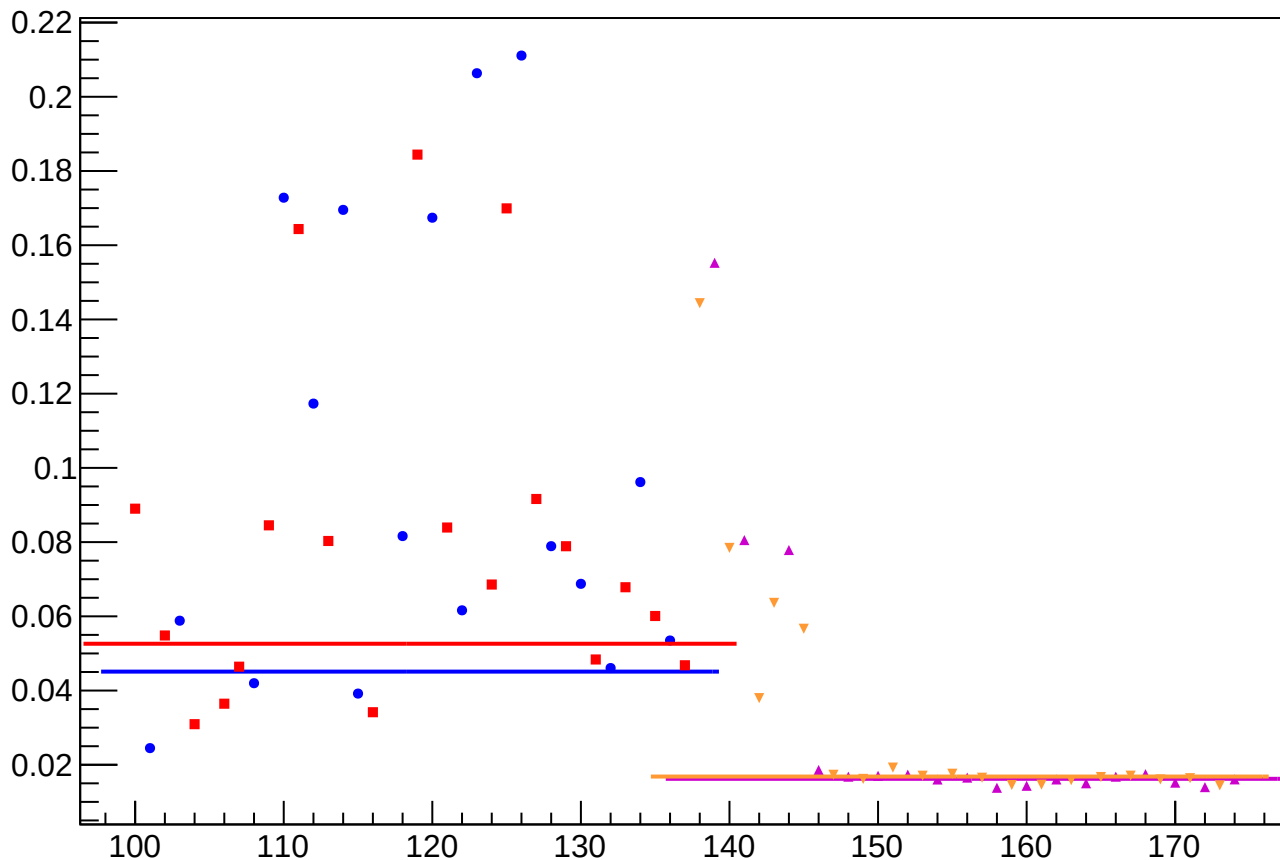
Right: 0.439 $\pm$ 0.000 χ^2 /NDF: 1241544973.3/35

In: 1.800 $\pm$ 0.000 χ^2 /NDF:34043426247.7/34

Out: 1.797 $\pm$ 0.000 χ^2 /NDF:31974265238.0/37

All: 1.799 $\pm$ 0.000 χ^2 /NDF: 66017822006.0/71

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2775094.8/18

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2380671.8/17

Left: 0.017+/-0.000 χ^2/NDF : 5169972.2/36

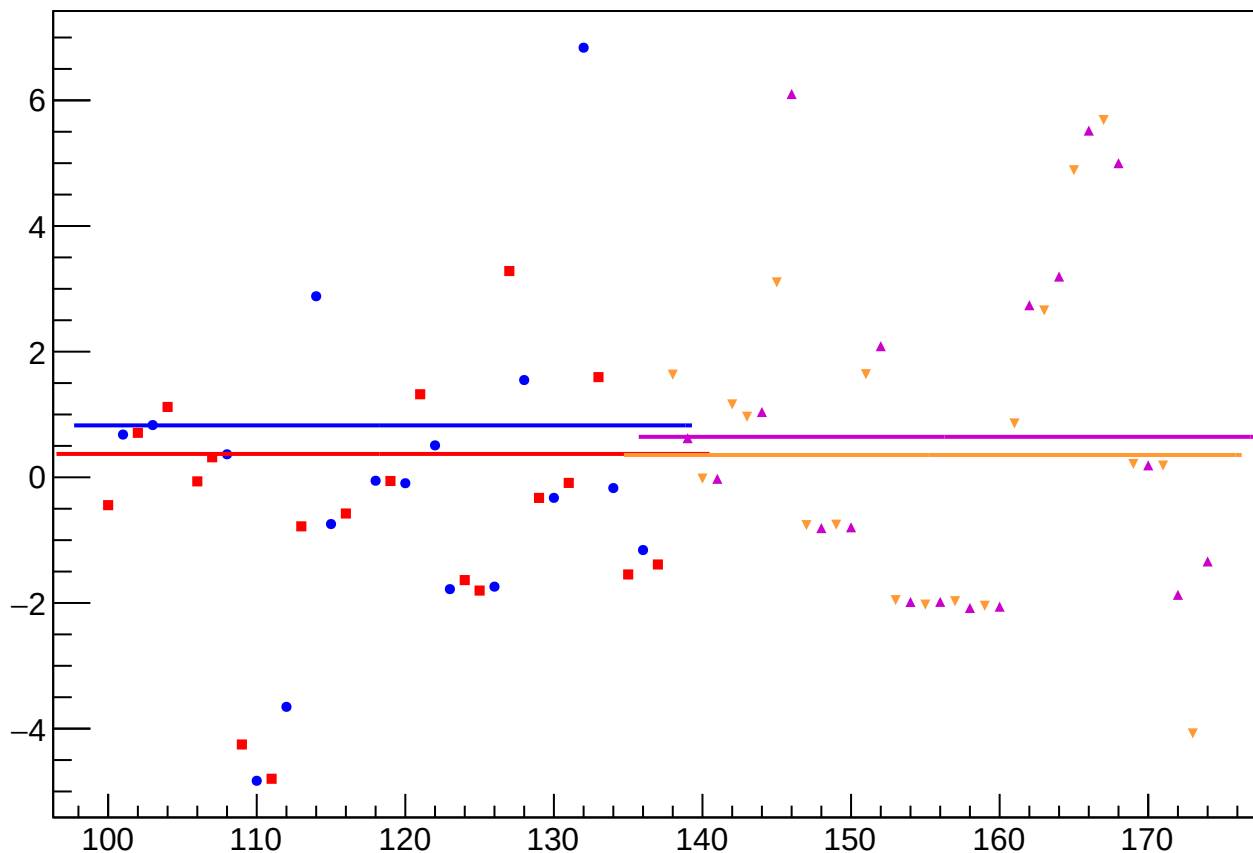
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.017+/-0.000 χ^2/NDF : 8021631.9/34

Out: 0.018+/-0.000 χ^2/NDF : 8638200.1/37

All: 0.018+/-0.000 χ^2/NDF : 16684733.7/72

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.506+/-0.000 χ^2/NDF : 1007196771256.2/36

Right: 0.613+/-0.000 χ^2/NDF : 16291516809.6/35

Left Out: 0.356+/-0.000

χ^2/NDF : 466211013686.0/18

In: 0.655+/-0.000 χ^2/NDF : 549467778575.3/34

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

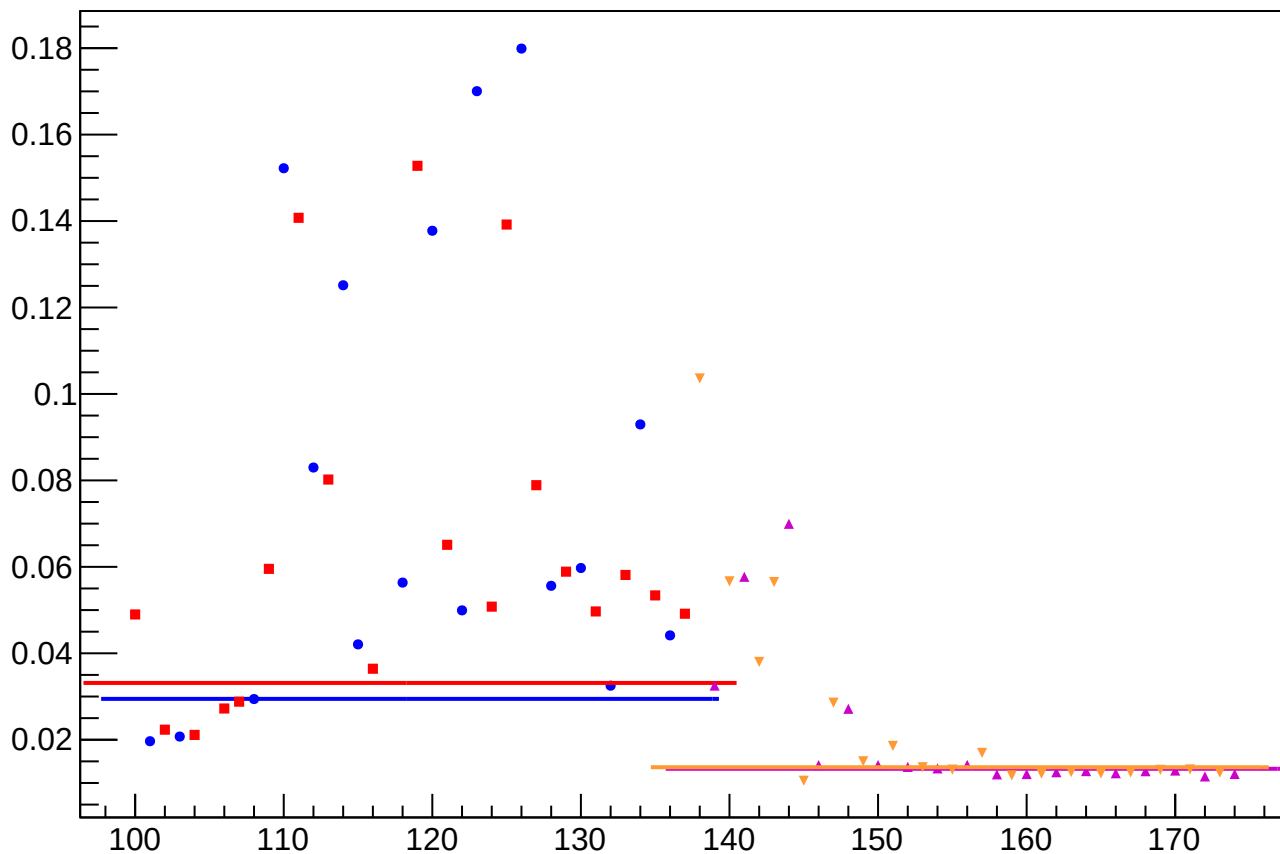
Out: 0.356+/-0.000 χ^2/NDF : 471184835584.7/37

Left In: 0.644+/-0.000

χ^2/NDF : 538408227127.1/17

All: 0.512+/-0.000 χ^2/NDF : 1023568656152.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.014+/-0.000 χ^2/NDF :2861788.4/18

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.013+/-0.000 χ^2/NDF :1927350.6/17

Left: 0.013+/-0.000 χ^2/NDF : 4797104.0/36

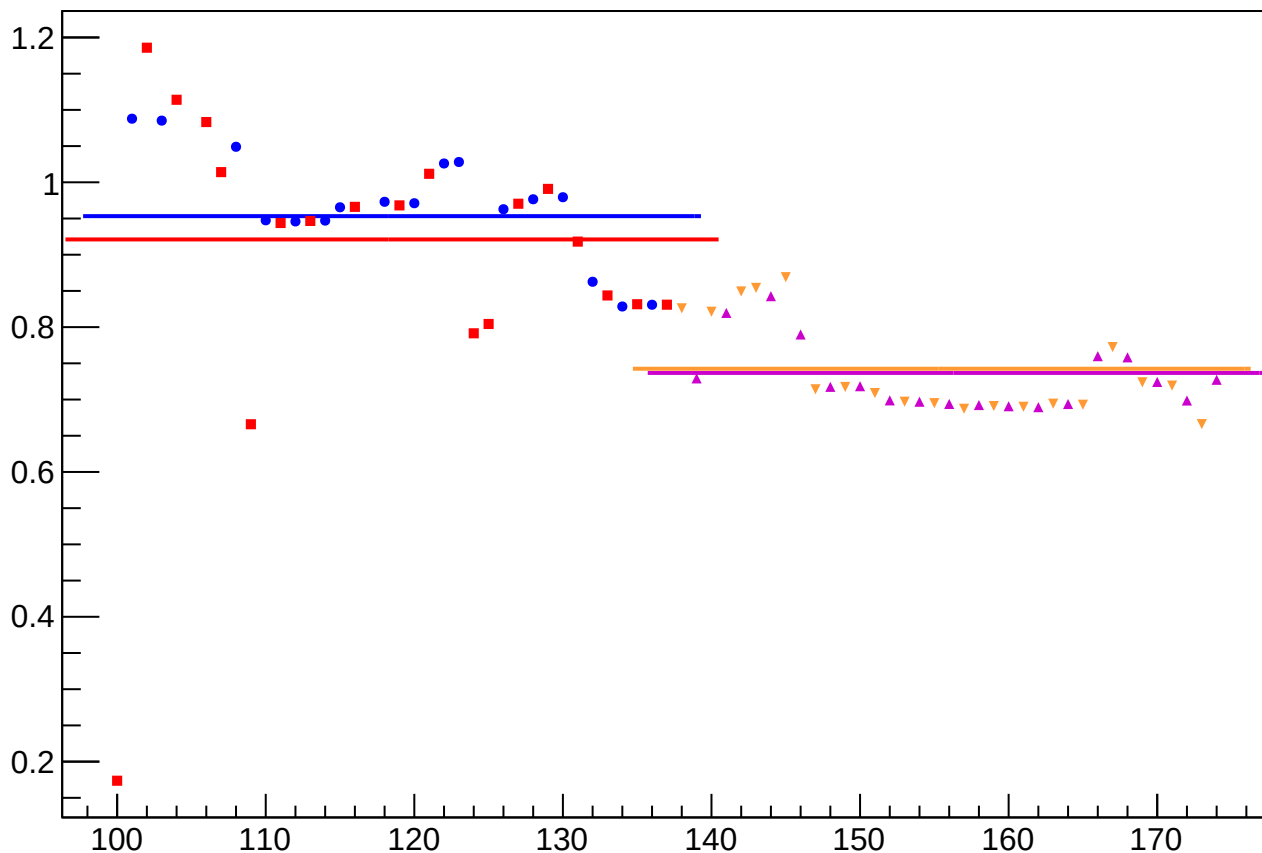
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.014+/-0.000 χ^2/NDF :6921885.6/34

Out: 0.015+/-0.000 χ^2/NDF :8472527.7/37

All: 0.014+/-0.000 χ^2/NDF : 15411522.5/72

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.743+/-0.000 χ^2/NDF : 289159120.0/18

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.737+/-0.000 χ^2/NDF : 163921213.6/17

Left: 0.740+/-0.000 χ^2/NDF : 454208236.9/36

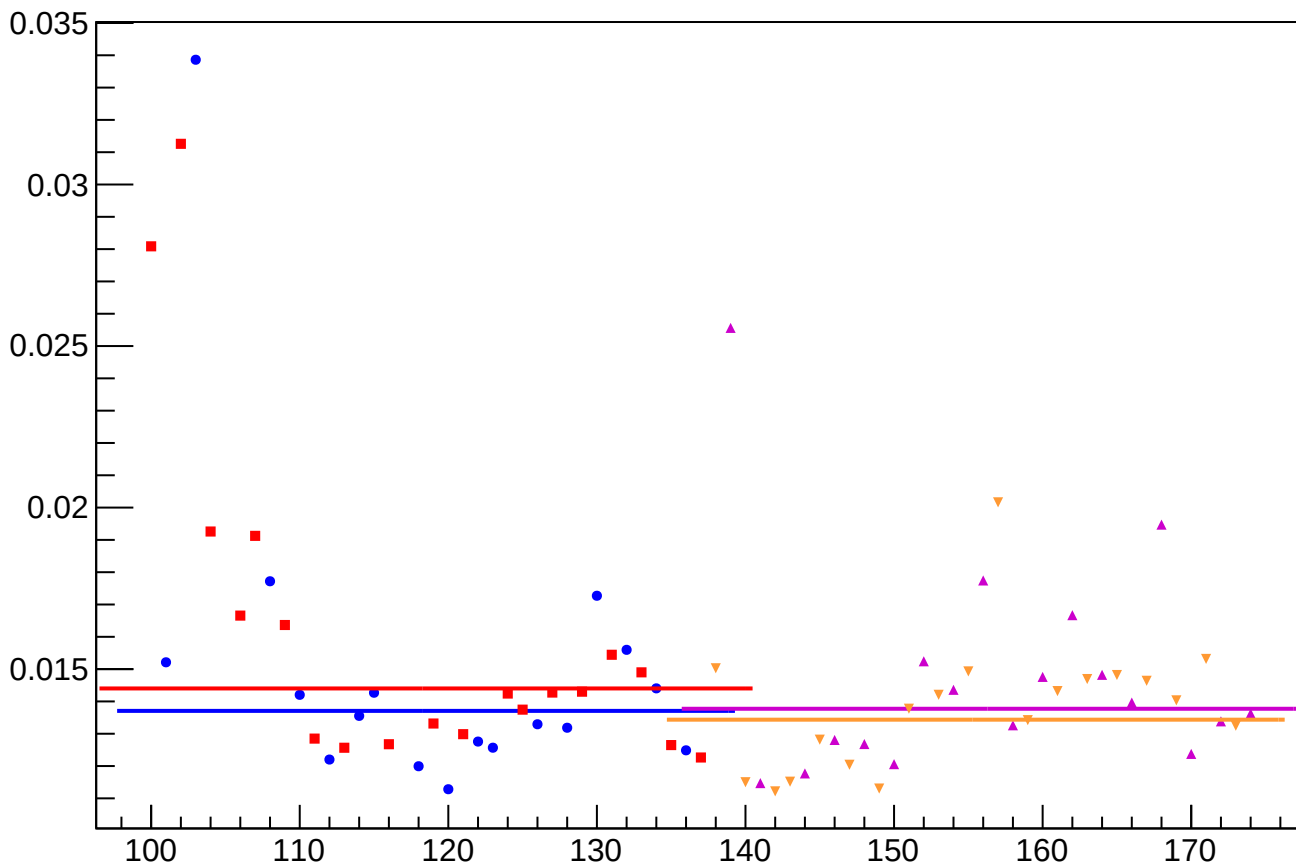
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.807+/-0.000 χ^2/NDF : 1321853598.9/34

Out: 0.796+/-0.000 χ^2/NDF : 1318327539.8/37

All: 0.801+/-0.000 χ^2/NDF : 2645578738.9/72

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 393300.3/18

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 725792.6/17

Left: 0.014+/-0.000 χ^2/NDF : 1126696.7/36

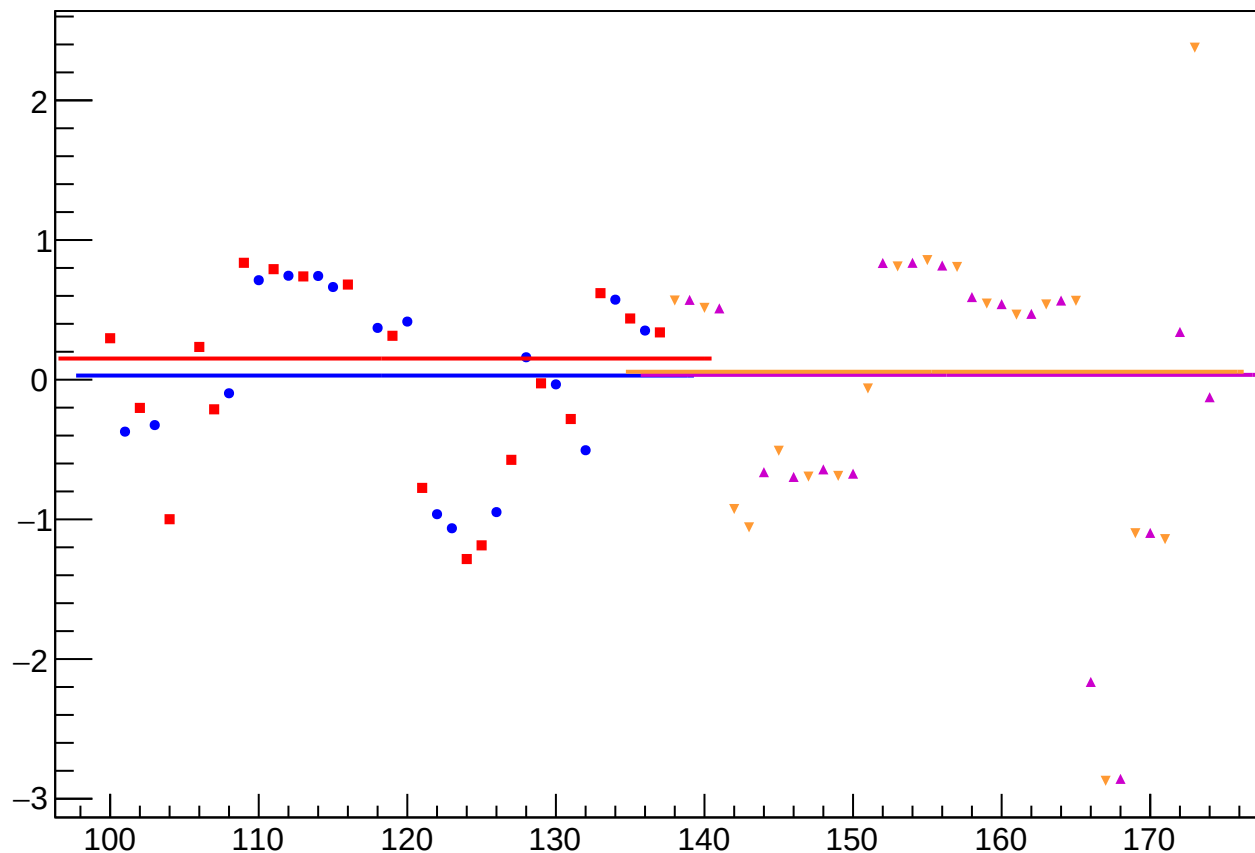
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1272290.2/34

Out: 0.014+/-0.000 χ^2/NDF : 933456.7/37

All: 0.014+/-0.000 χ^2/NDF : 2205816.1/72

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 6294824795.0/16

Left Out: 0.057 $\pm$ 0.000 χ^2 /NDF: 94866219100.2/18

Right Out: 0.152 $\pm$ 0.000 χ^2 /NDF: 12661812059.7/18

Left In: 0.035 $\pm$ 0.000 χ^2 /NDF: 78267841783.8/17

Left: 0.046 $\pm$ 0.000 χ^2 /NDF: 173155239823.5/36

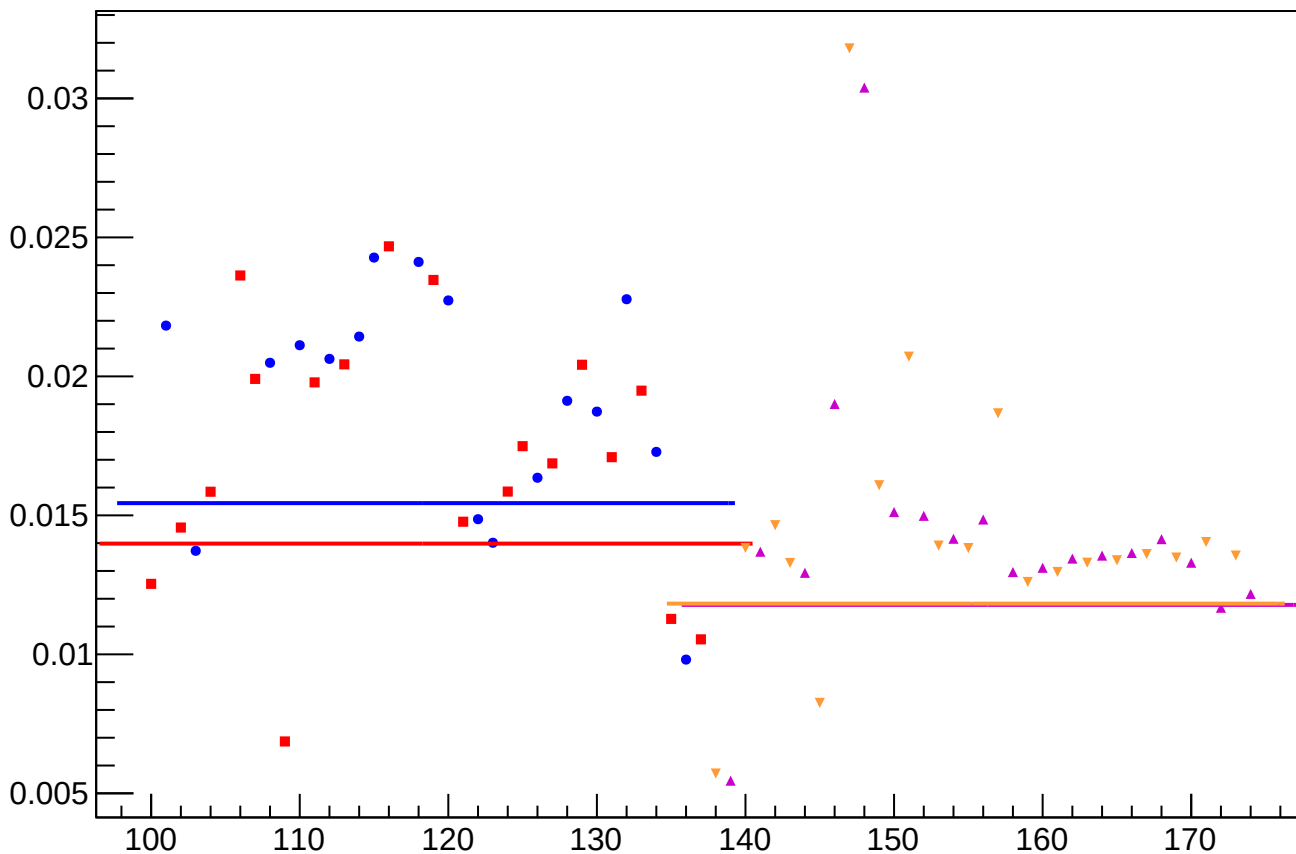
Right: 0.096 $\pm$ 0.000 χ^2 /NDF: 19149304558.7/35

In: 0.034 $\pm$ 0.000 χ^2 /NDF: 84563123873.1/34

Out: 0.081 $\pm$ 0.000 χ^2 /NDF: 107719792630.5/37

All: 0.058 $\pm$ 0.000 χ^2 /NDF: 192406763644.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3038430.0/18

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2940516.1/17

Left: 0.012+/-0.000 χ^2/NDF : 5979126.4/36

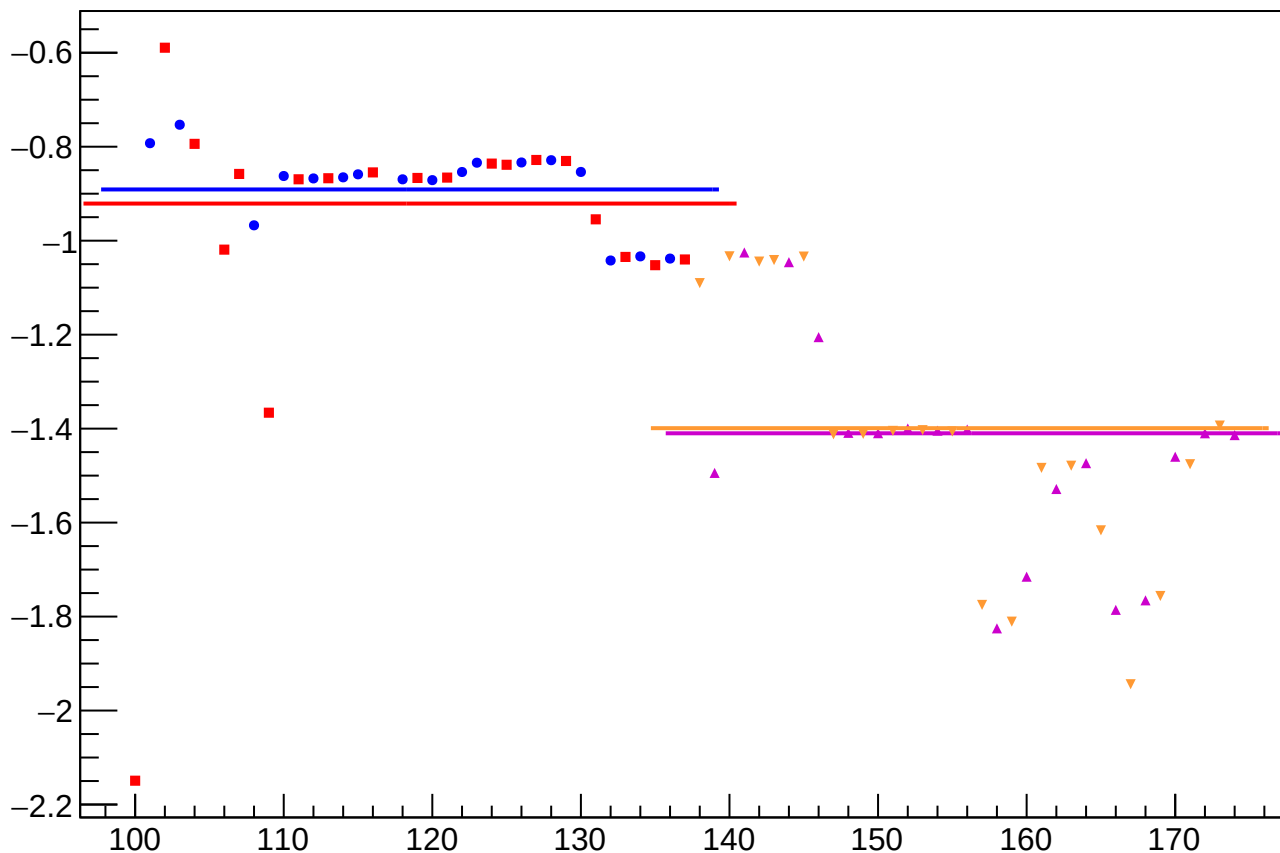
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4599707.2/34

Out: 0.012+/-0.000 χ^2/NDF : 4798973.6/37

All: 0.012+/-0.000 χ^2/NDF : 9403544.1/72

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 717977459.1/18$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.410 ± 0.000 $\chi^2/\text{NDF}: 511078360.3/17$

Left: -1.404 ± 0.000 $\chi^2/\text{NDF}: 1229649214.3/36$

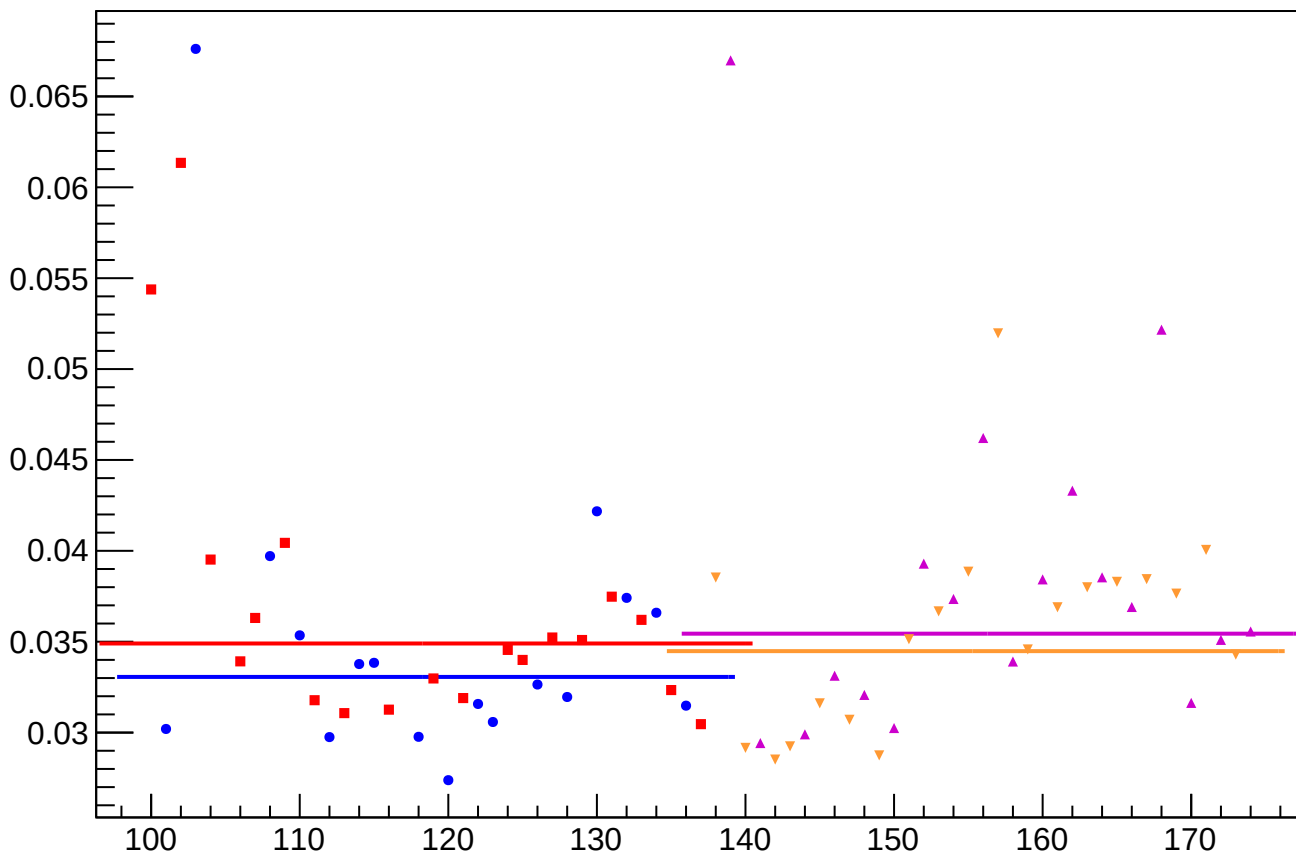
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.225 ± 0.000 $\chi^2/\text{NDF}: 1481590146.5/34$

Out: -1.242 ± 0.000 $\chi^2/\text{NDF}: 1623709906.8/37$

All: -1.233 ± 0.000 $\chi^2/\text{NDF}: 3107424525.8/7$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.034+/-0.000 χ^2/NDF : 448551.4/18

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.035+/-0.000 χ^2/NDF : 808882.9/17

Left: 0.035+/-0.000 χ^2/NDF : 1266651.6/36

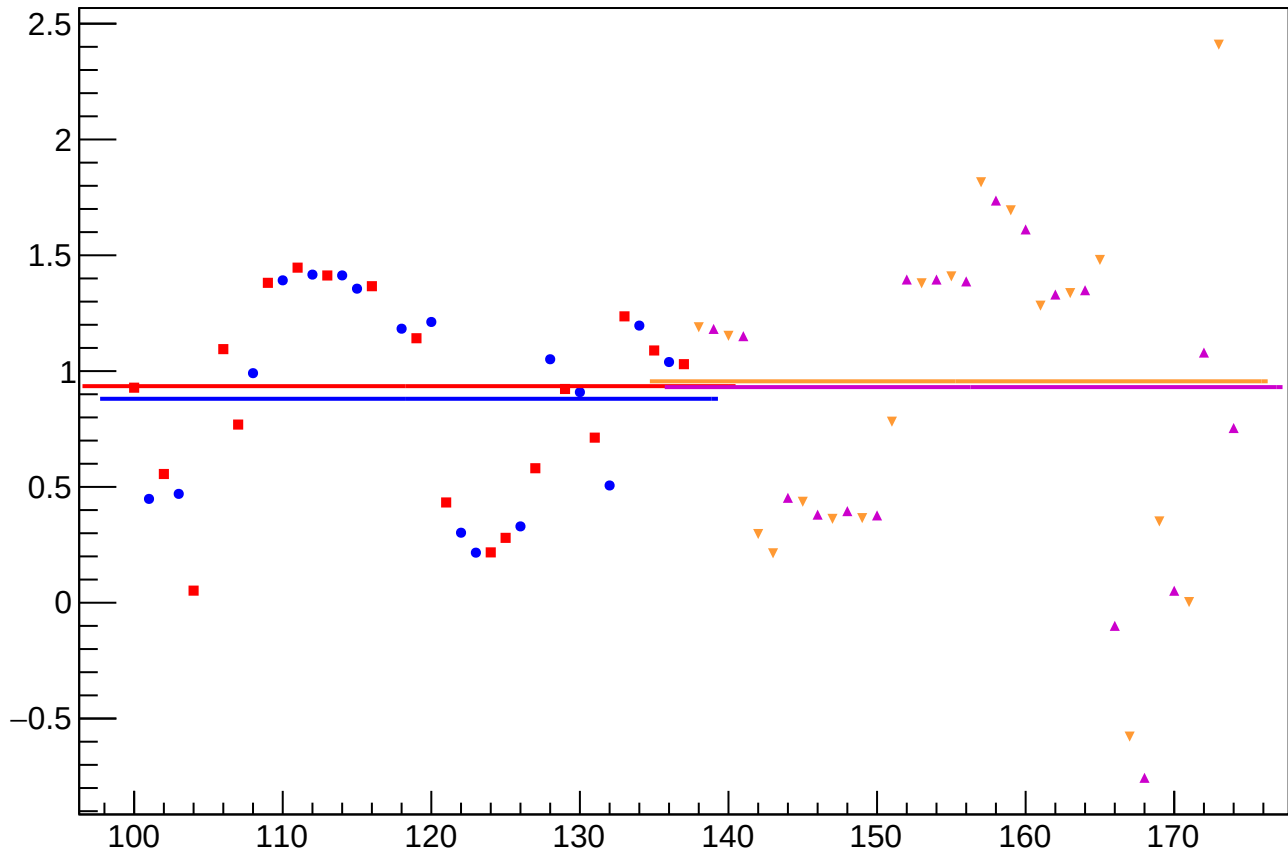
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF : 1257316.9/34

Out: 0.035+/-0.000 χ^2/NDF : 724021.8/37

All: 0.035+/-0.000 χ^2/NDF : 1981349.0/72

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 0.956 $\pm$ 0.000 χ^2 /NDF: 82035240716.8/18

Right Out: 0.935 $\pm$ 0.000 χ^2 /NDF: 9833525935.6/18

Left In: 0.931 $\pm$ 0.000 χ^2 /NDF: 65557263145.8/17

Left: 0.943 $\pm$ 0.000 χ^2 /NDF: 147644324336.4/36

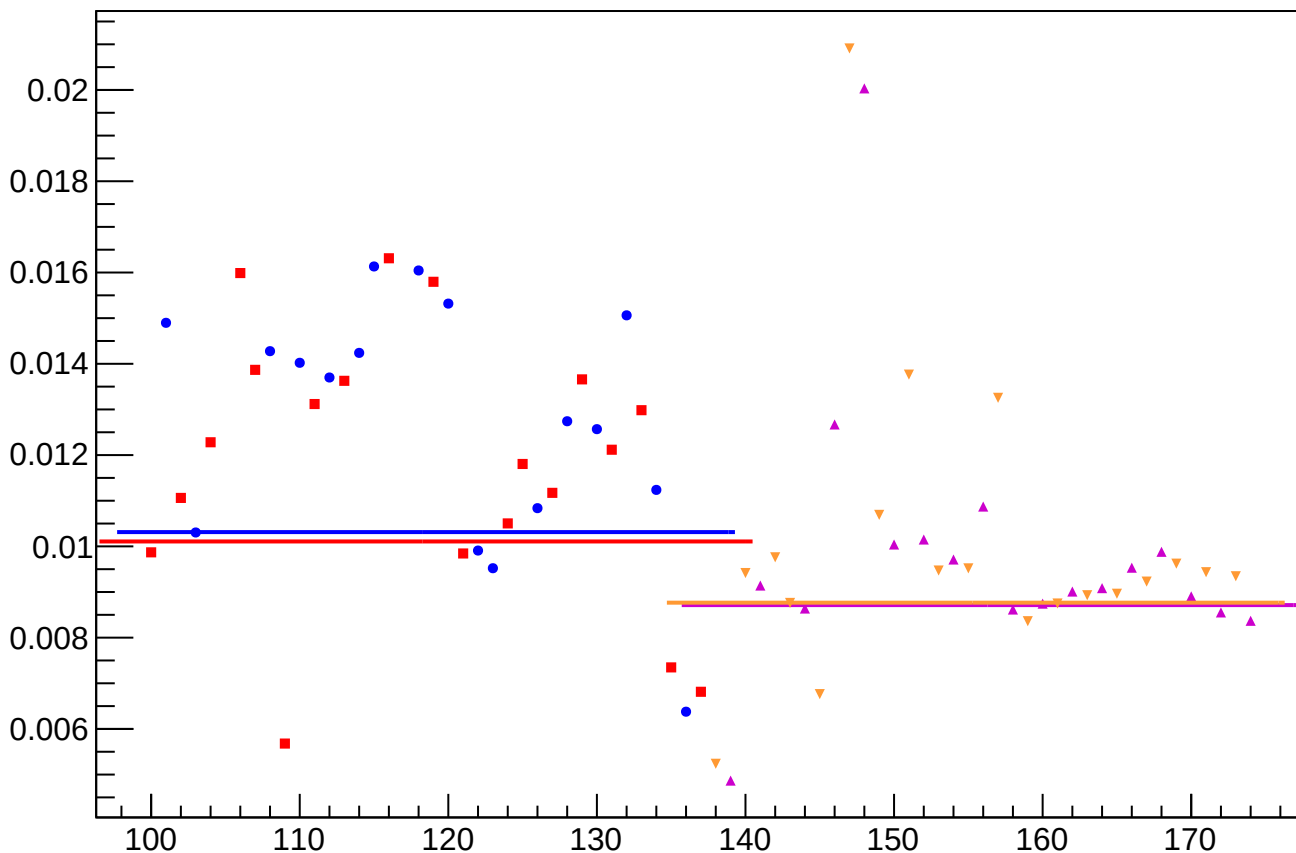
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 0.919 $\pm$ 0.000 χ^2 /NDF: 72058913433.1/34

Out: 0.951 $\pm$ 0.000 χ^2 /NDF: 91887372099.1/37

All: 0.935 $\pm$ 0.000 χ^2 /NDF: 164058330455.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 1693449.3/18

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 1595611.2/17

Left: 0.009+/-0.000 χ^2/NDF : 3289531.1/36

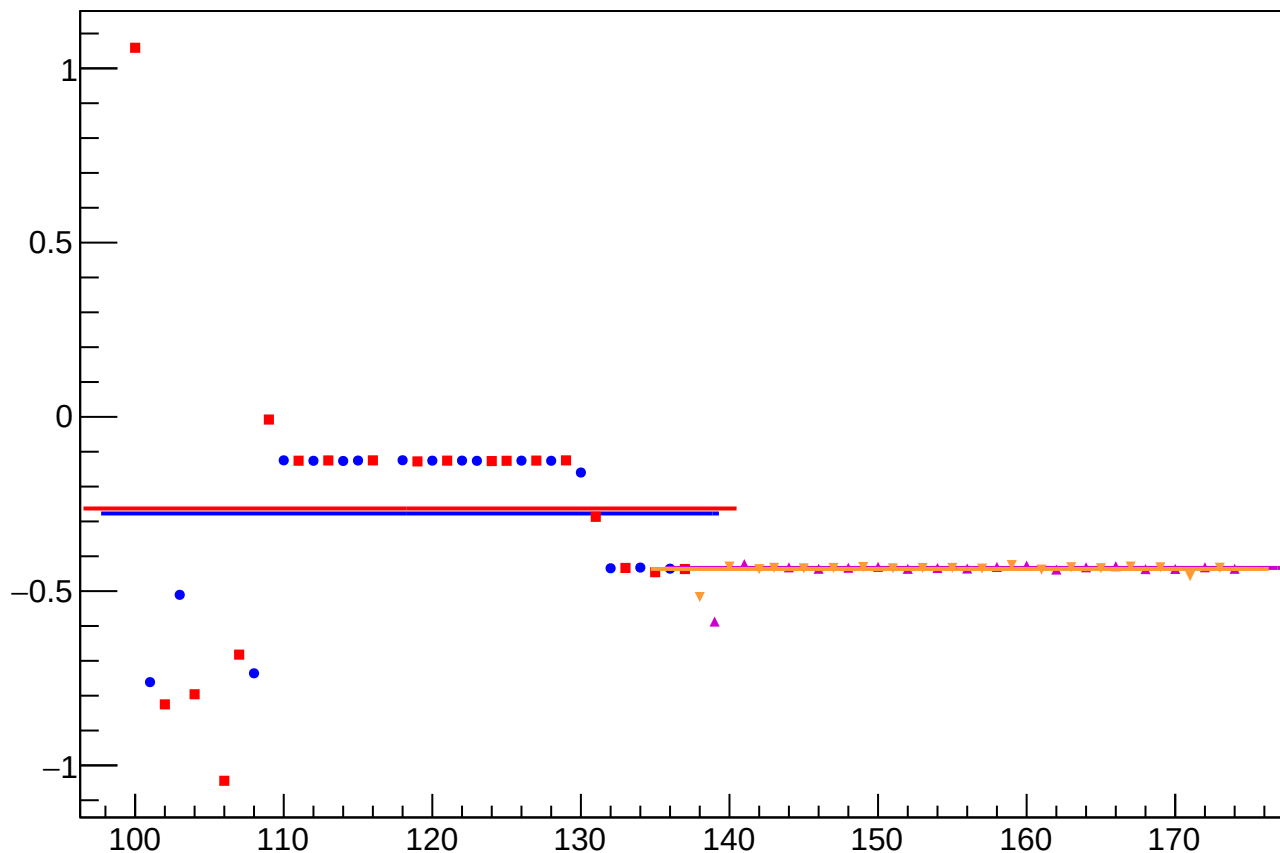
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3031120.7/34

Out: 0.009+/-0.000 χ^2/NDF : 3024699.1/37

All: 0.009+/-0.000 χ^2/NDF : 6055839.7/72

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277+/-0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.436+/-0.000 χ^2/NDF : 28735008.3/18

Right Out: -0.263+/-0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433+/-0.000 χ^2/NDF : 23691878.7/17

Left: -0.435+/-0.000 χ^2/NDF : 52937773.7/36

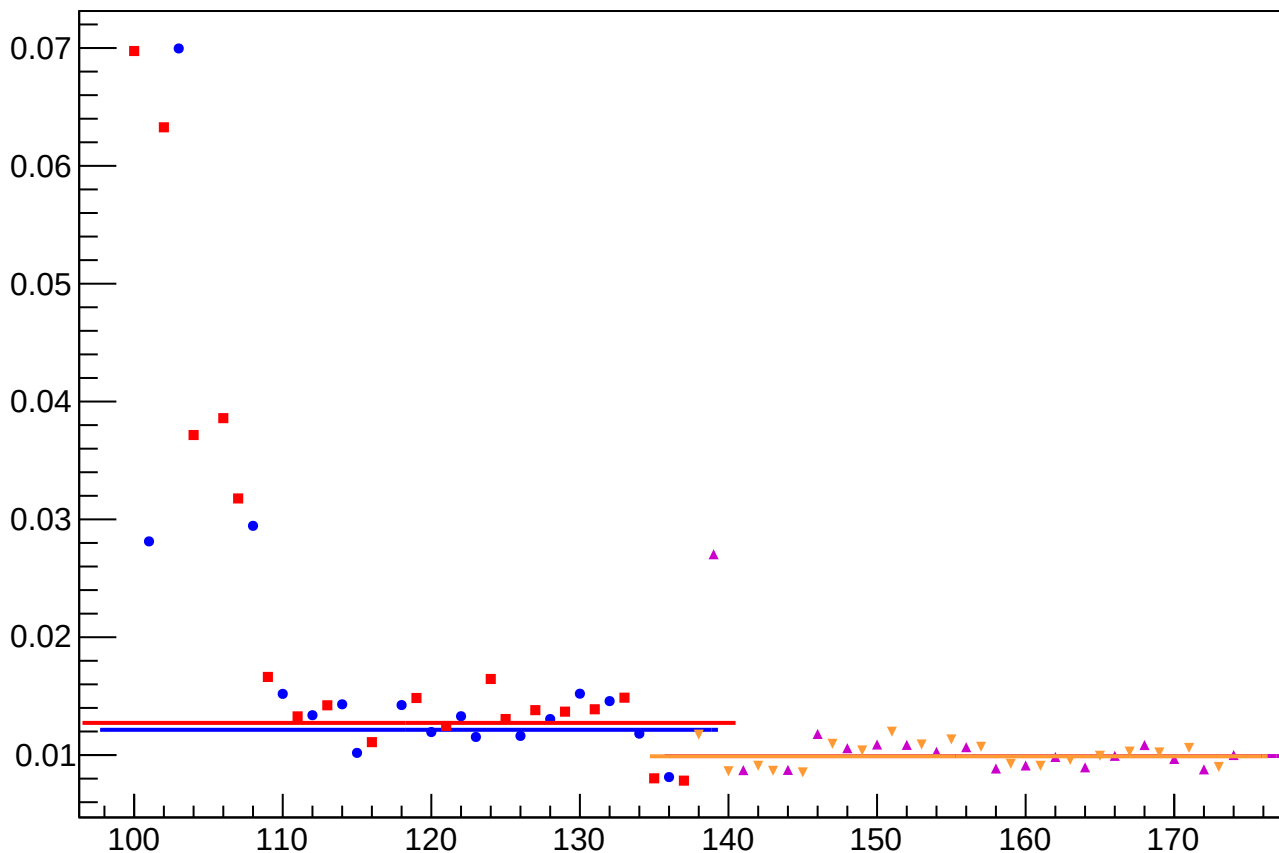
Right: -0.270+/-0.000 χ^2/NDF : 1952121842.2/35

In: -0.400+/-0.000 χ^2/NDF : 1578453759.6/34

Out: -0.402+/-0.000 χ^2/NDF : 1759243744.4/37

All: -0.401+/-0.000 χ^2/NDF : 3337985741.9/7

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:246409.4/18

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:724224.8/17

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 970684.4/36

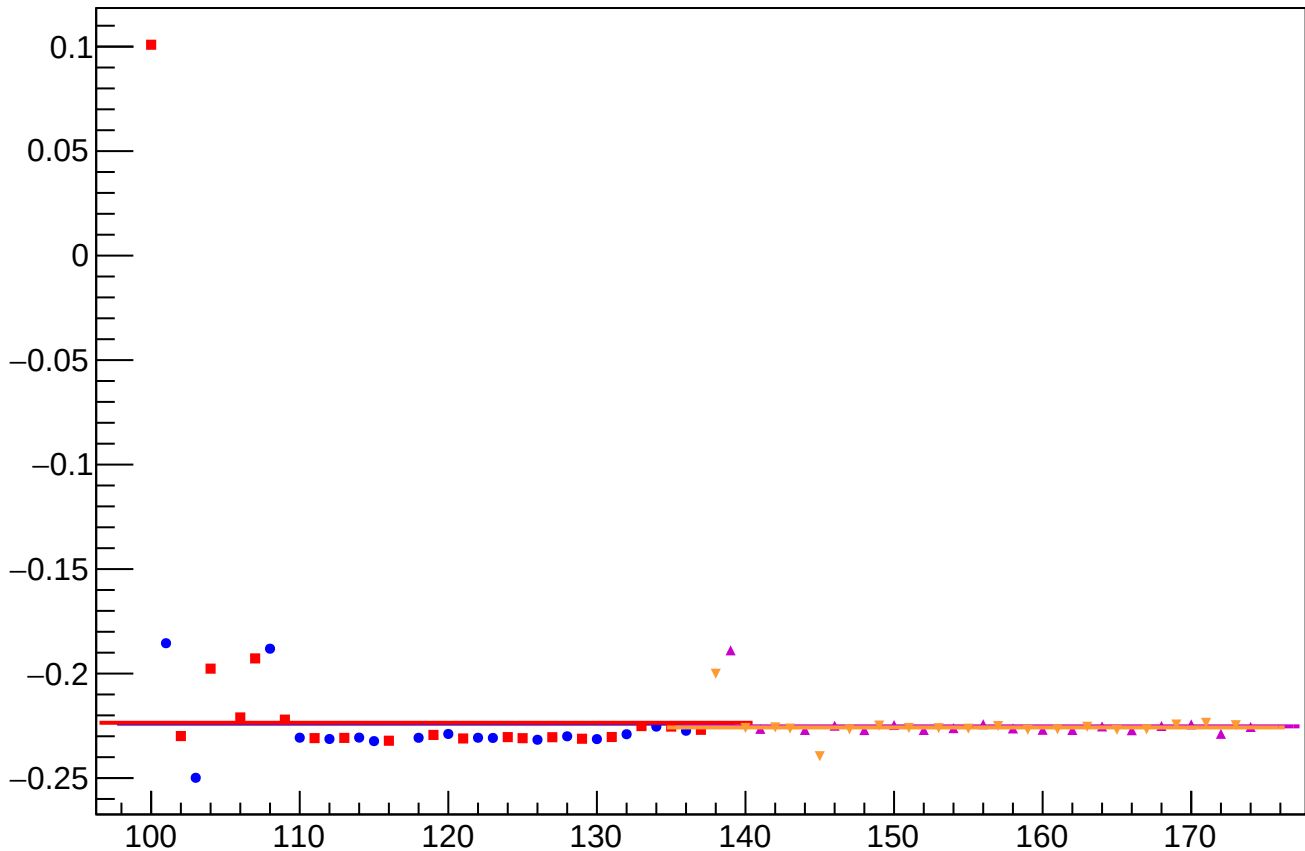
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2700903.5/34

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2600453.6/37

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5301988.9/72

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226+/-0.000 χ^2/NDF : 20866719.3/18

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225+/-0.000 χ^2/NDF : 14695502.0/17

Left: -0.226+/-0.000 χ^2/NDF : 35629331.9/36

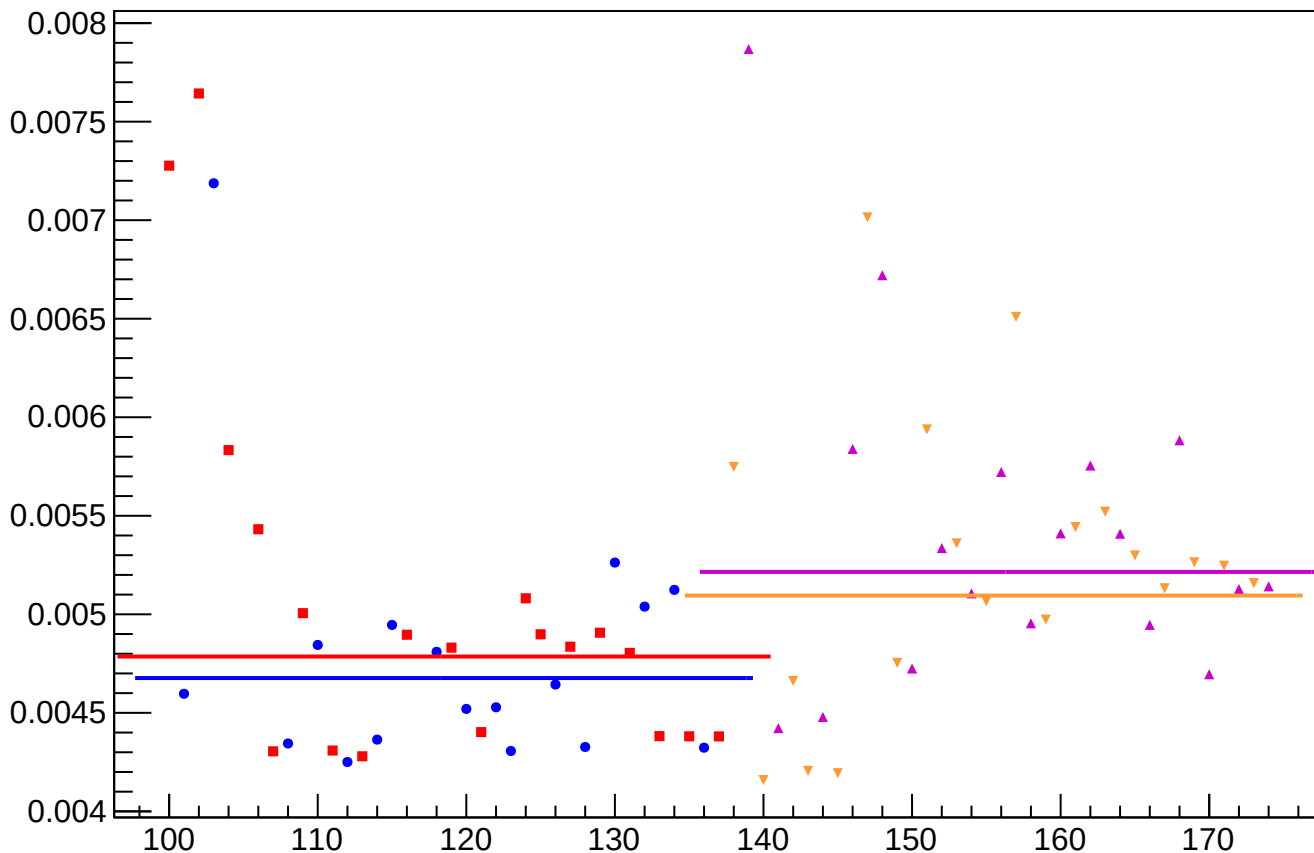
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89702102.3/34

Out: -0.225+/-0.000 χ^2/NDF : 189892853.1/37

All: -0.225+/-0.000 χ^2/NDF : 279611747.3/72

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 451319.8/18

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 426465.6/17

Left: 0.005+/-0.000 χ^2/NDF : 884876.6/36

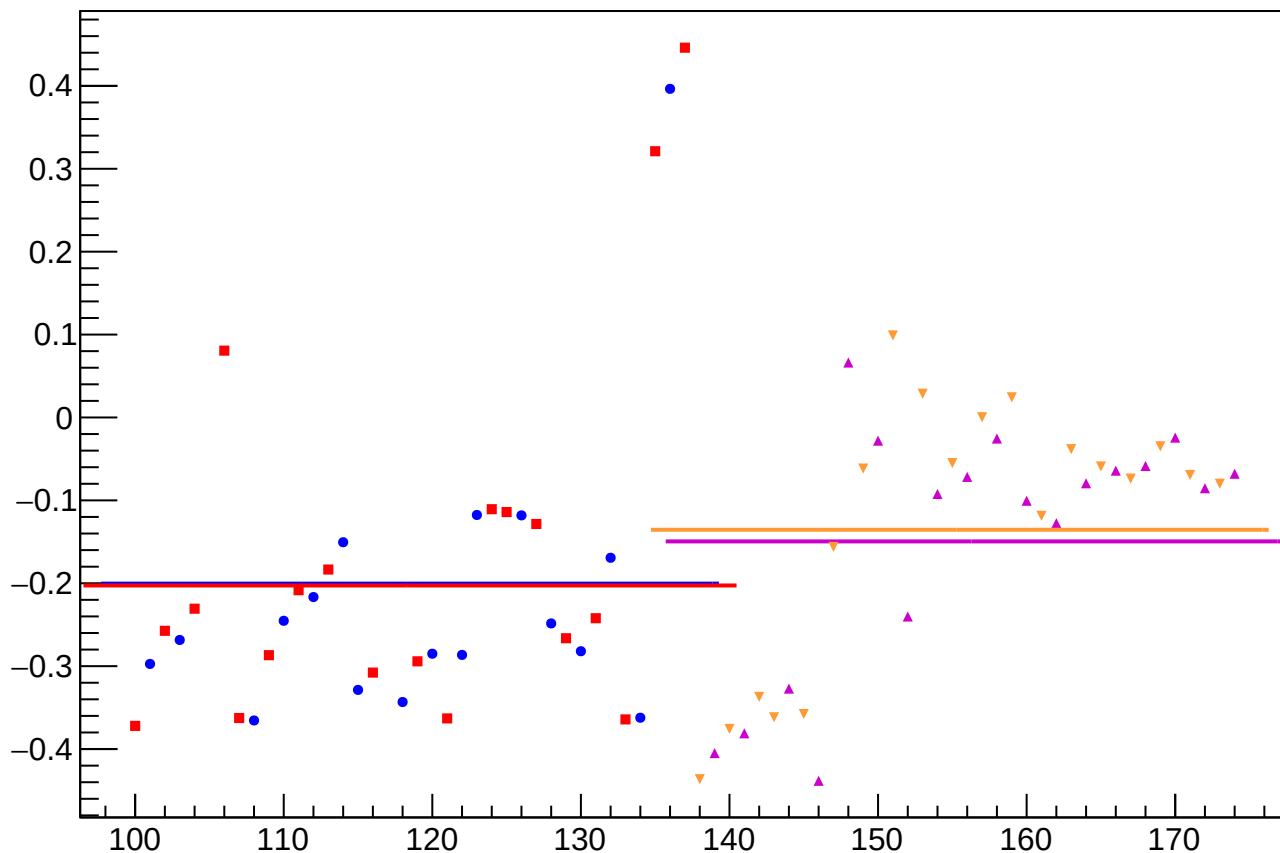
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 709401.0/34

Out: 0.005+/-0.000 χ^2/NDF : 733979.6/37

All: 0.005+/-0.000 χ^2/NDF : 1444204.5/72

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.135 ± 0.000 $\chi^2/\text{NDF}: 11714624366.1/18$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.150 ± 0.000 $\chi^2/\text{NDF}: 9096188385.4/17$

Left: -0.142 ± 0.000 $\chi^2/\text{NDF}: 20855370252.4/36$

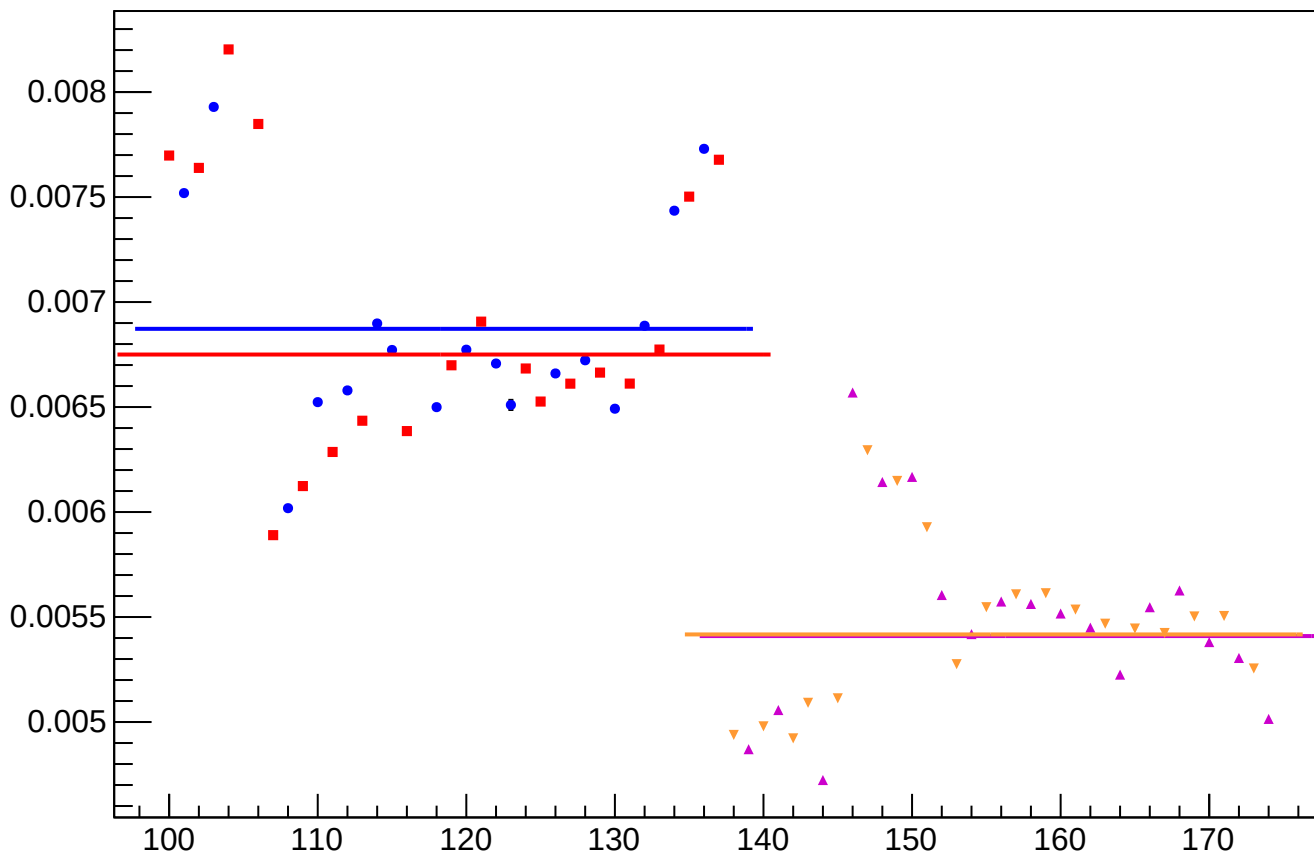
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.162 ± 0.000 $\chi^2/\text{NDF}: 15344605365.7/34$

Out: -0.152 ± 0.000 $\chi^2/\text{NDF}: 17254859219.9/37$

All: -0.157 ± 0.000 $\chi^2/\text{NDF}: 32625931687.3/70$

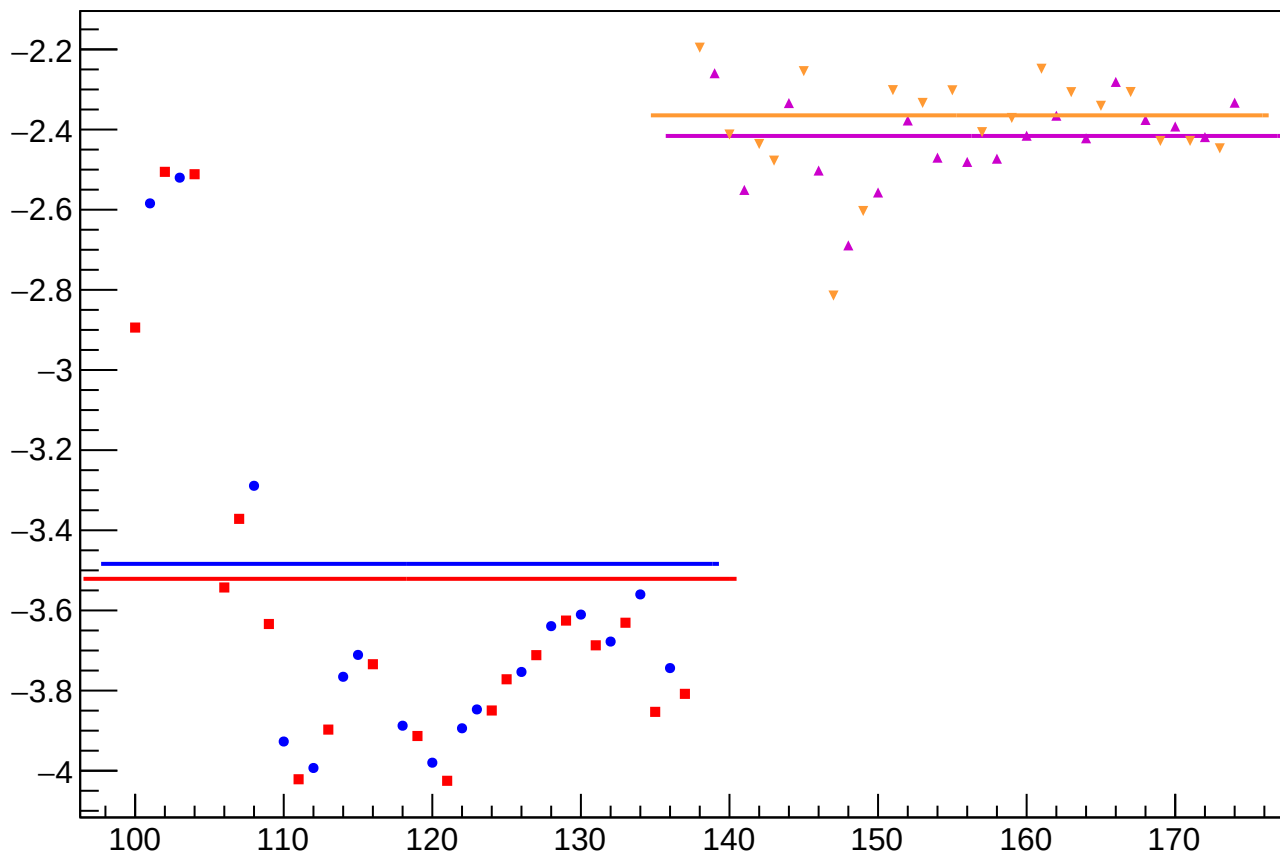
yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16
 Left Out: 0.005+/-0.000 χ^2/NDF :107740.5/18
 Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18
 Left In: 0.005+/-0.000 χ^2/NDF :158810.1/17

Left: 0.005+/-0.000 χ^2/NDF : 266578.0/36
 Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35
 In: 0.006+/-0.000 χ^2/NDF :691083.2/34
 Out: 0.006+/-0.000 χ^2/NDF :615630.3/37
 All: 0.006+/-0.000 χ^2/NDF : 1306750.5/72

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.365+/-0.000 χ^2/NDF : 1871865182.7/18

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.416+/-0.000 χ^2/NDF : 1222323729.4/17

Left: -2.390+/-0.000 χ^2/NDF : 3323054108.3/36

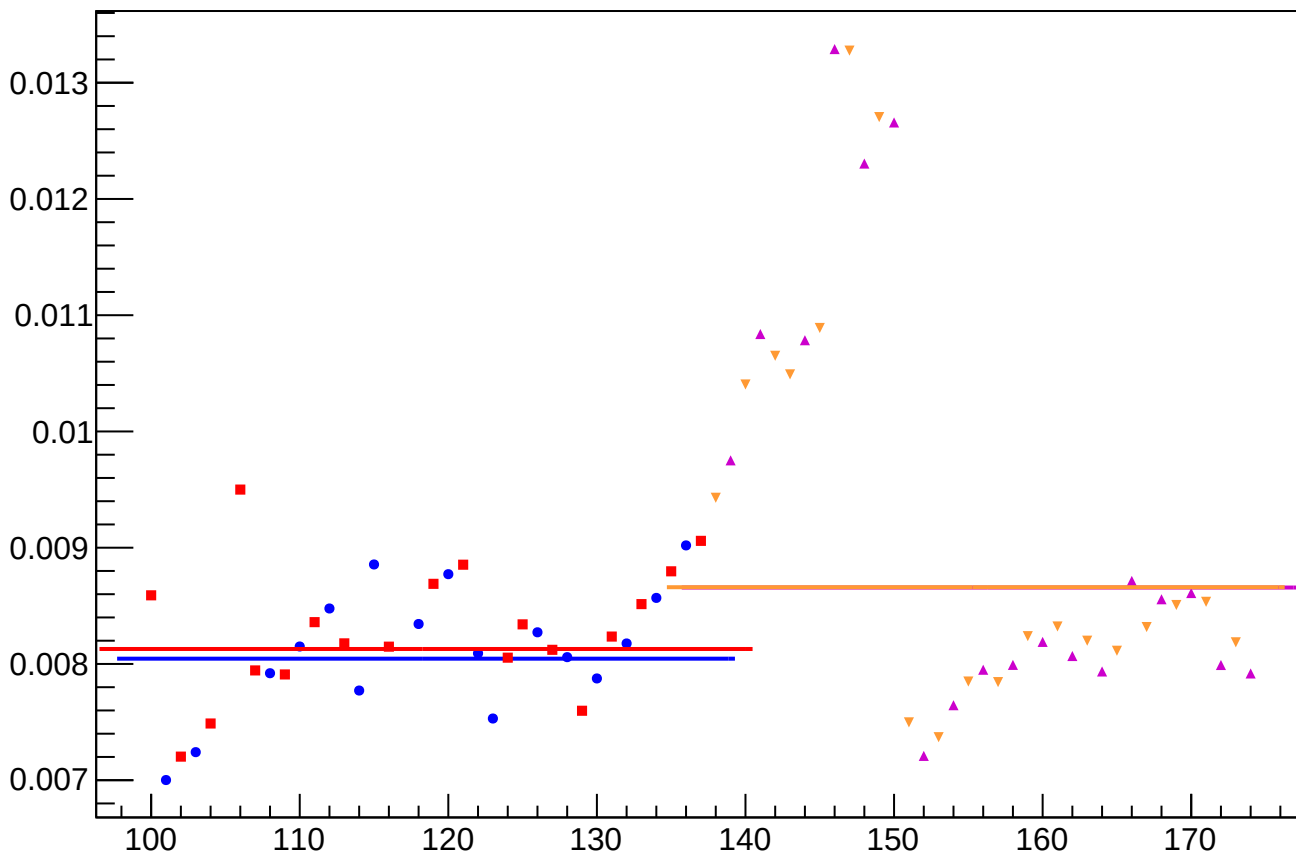
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.810+/-0.000 χ^2/NDF : 100699375360.8/34

Out: -2.792+/-0.000 χ^2/NDF : 114785273752.4/37

All: -2.801+/-0.000 χ^2/NDF : 215530368723.0

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 599752.1/18

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 726279.1/17

Left: 0.009+/-0.000 χ^2/NDF : 1326032.5/36

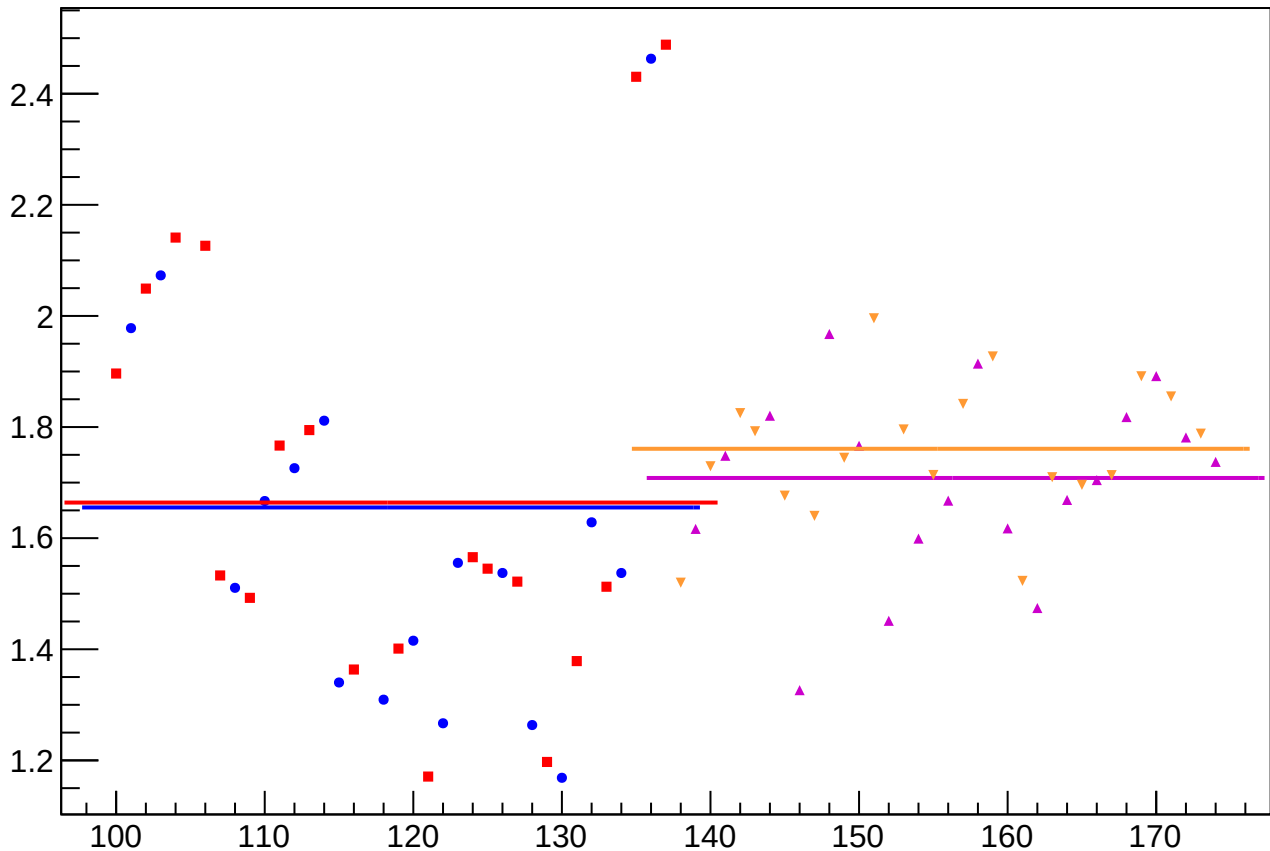
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 845758.5/34

Out: 0.008+/-0.000 χ^2/NDF : 693709.7/37

All: 0.008+/-0.000 χ^2/NDF : 1539755.4/72

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2 /NDF: 6476474909.3/16

Left Out: 1.761 $\pm$ 0.000 χ^2 /NDF:1758060103.4/18

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5944262279.7/18

Left In: 1.708 $\pm$ 0.000 χ^2 /NDF:2757560010.7/17

Left: 1.735 $\pm$ 0.000 χ^2 /NDF: 4680752910.6/36

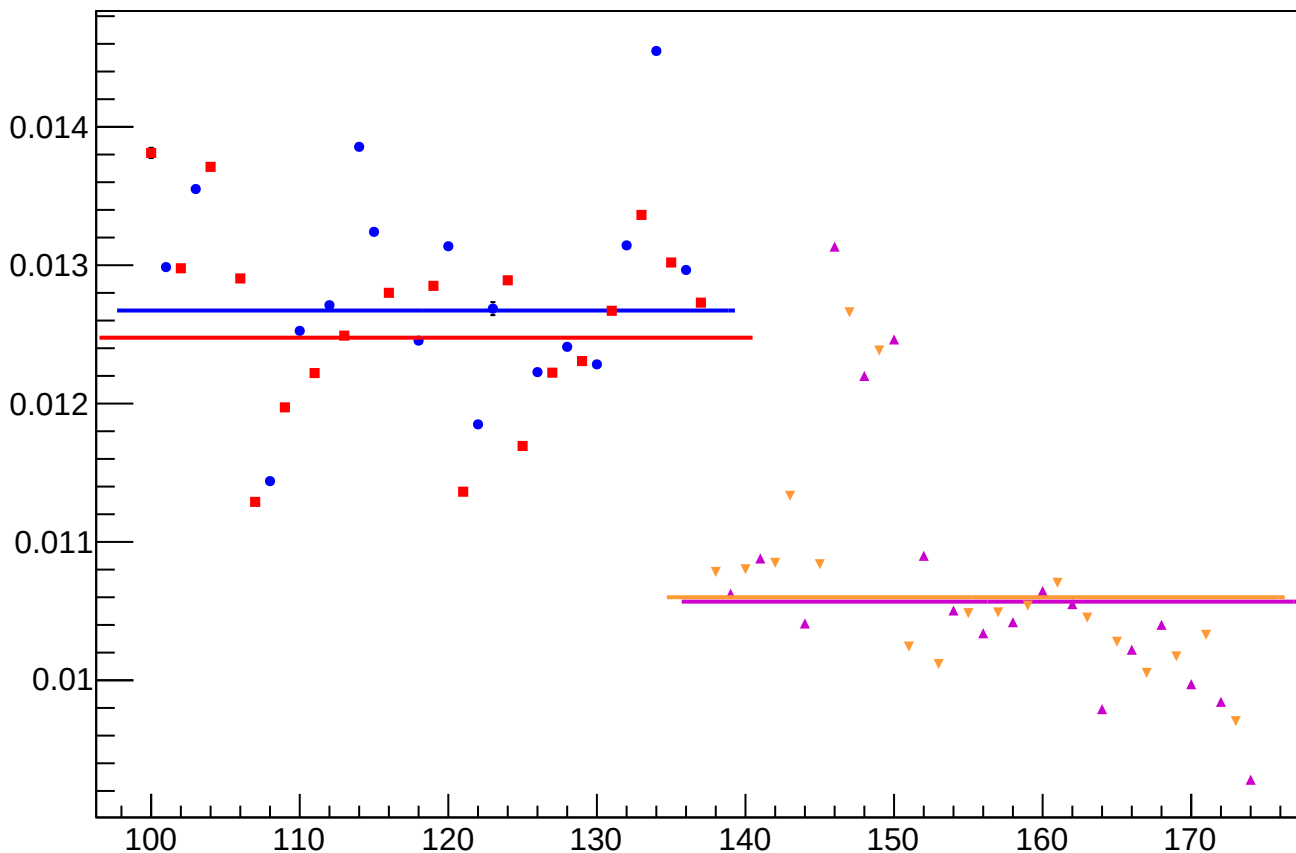
Right: 1.660 $\pm$ 0.000 χ^2 /NDF: 12422392259.9/35

In: 1.695 $\pm$ 0.000 χ^2 /NDF:9319648091.3/34

Out: 1.735 $\pm$ 0.000 χ^2 /NDF:8005712824.1/37

All: 1.715 $\pm$ 0.000 χ^2 /NDF: 17456228262.1/71

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :104443.3/18

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :170450.3/17

Left: 0.011+/-0.000 χ^2/NDF : 275013.9/36

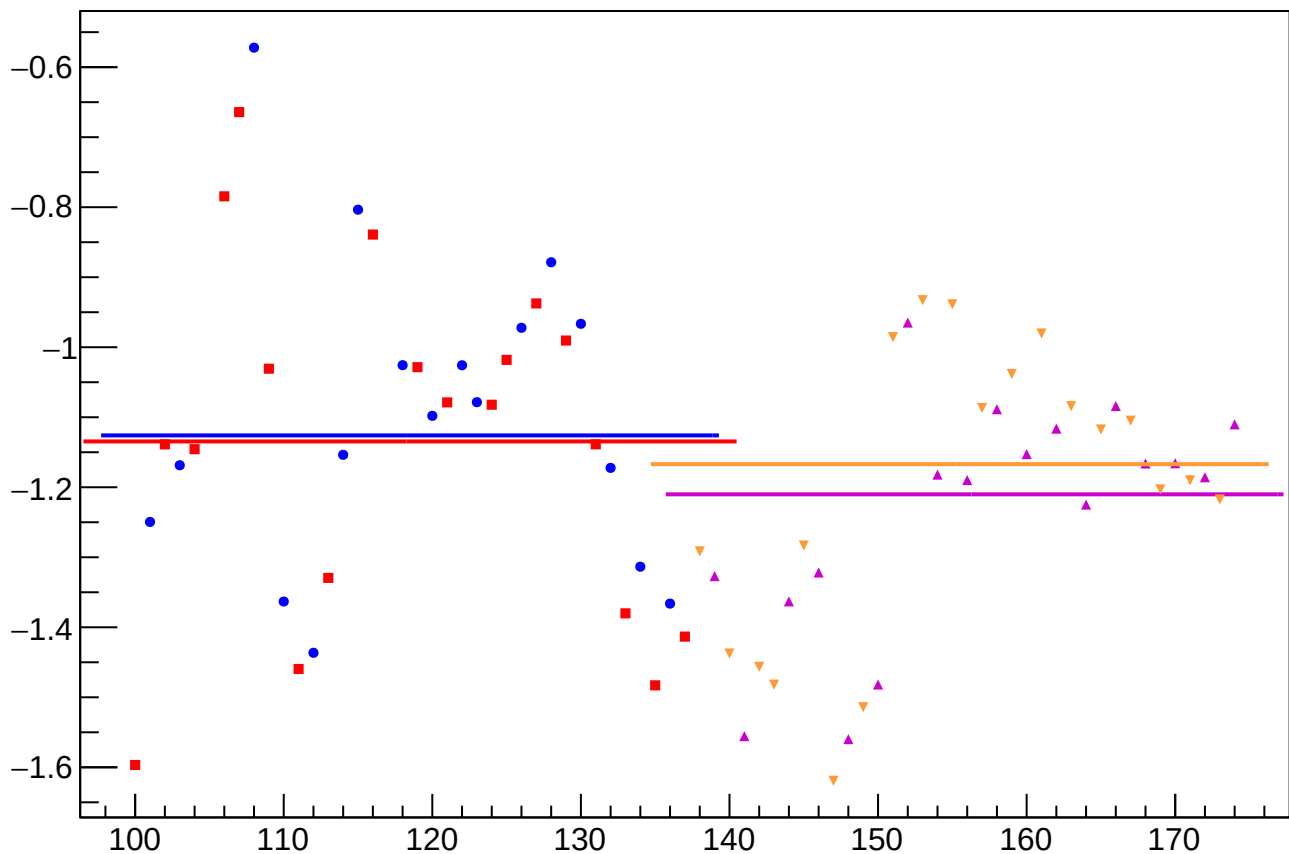
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :471257.8/34

Out: 0.011+/-0.000 χ^2/NDF :371483.4/37

All: 0.011+/-0.000 χ^2/NDF : 842744.0/72

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.167+/-0.000 χ^2/NDF : 7161889758.3/18

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.210+/-0.000 χ^2/NDF : 4692346175.2/17

Left: -1.188+/-0.000 χ^2/NDF : 12047235794.8/36

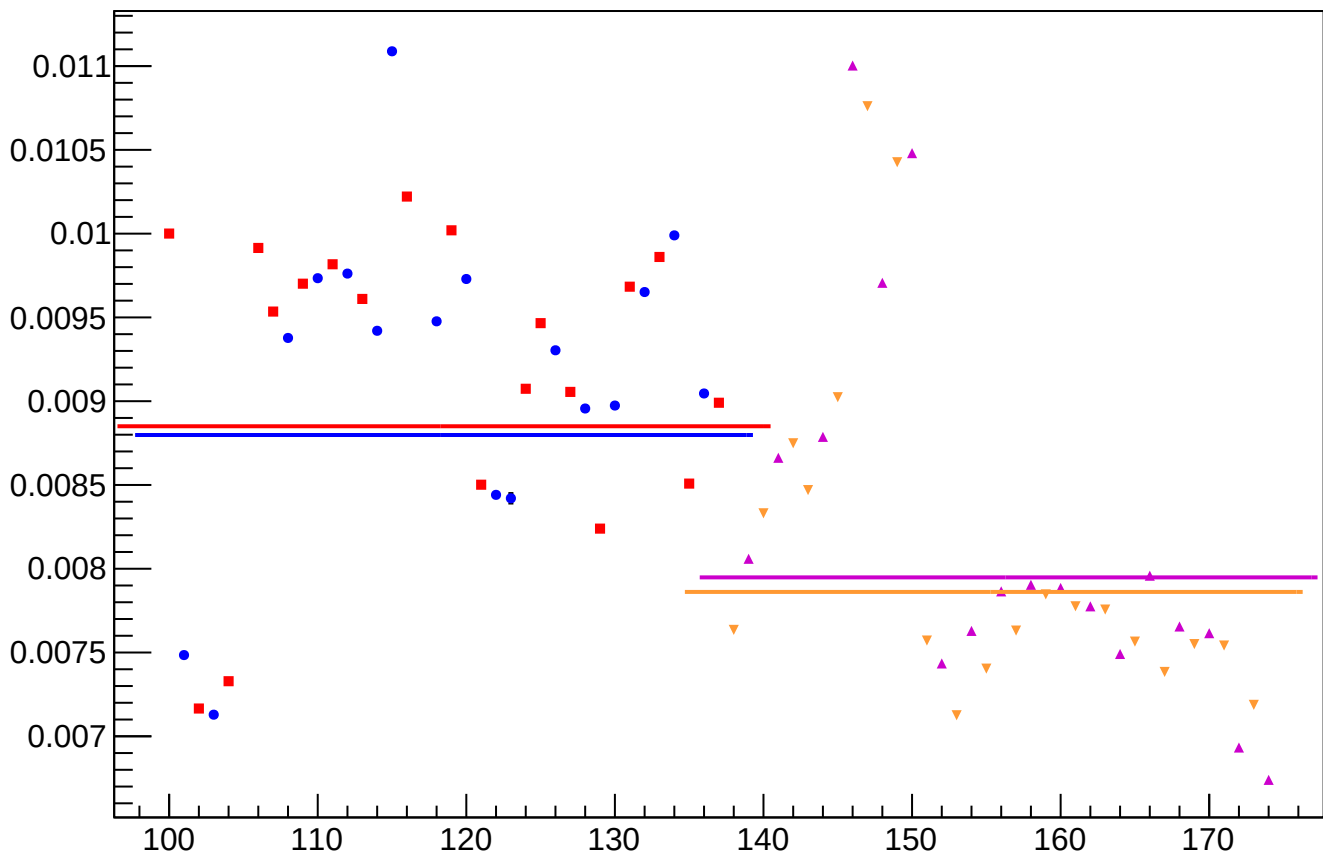
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.186+/-0.000 χ^2/NDF : 8683042975.8/34

Out: -1.158+/-0.000 χ^2/NDF : 10902981043.8/37

All: -1.172+/-0.000 χ^2/NDF : 19701695446.5/70

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF :265958.5/18

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF :348625.6/17

Left: 0.008+/-0.000 χ^2/NDF : 616147.4/36

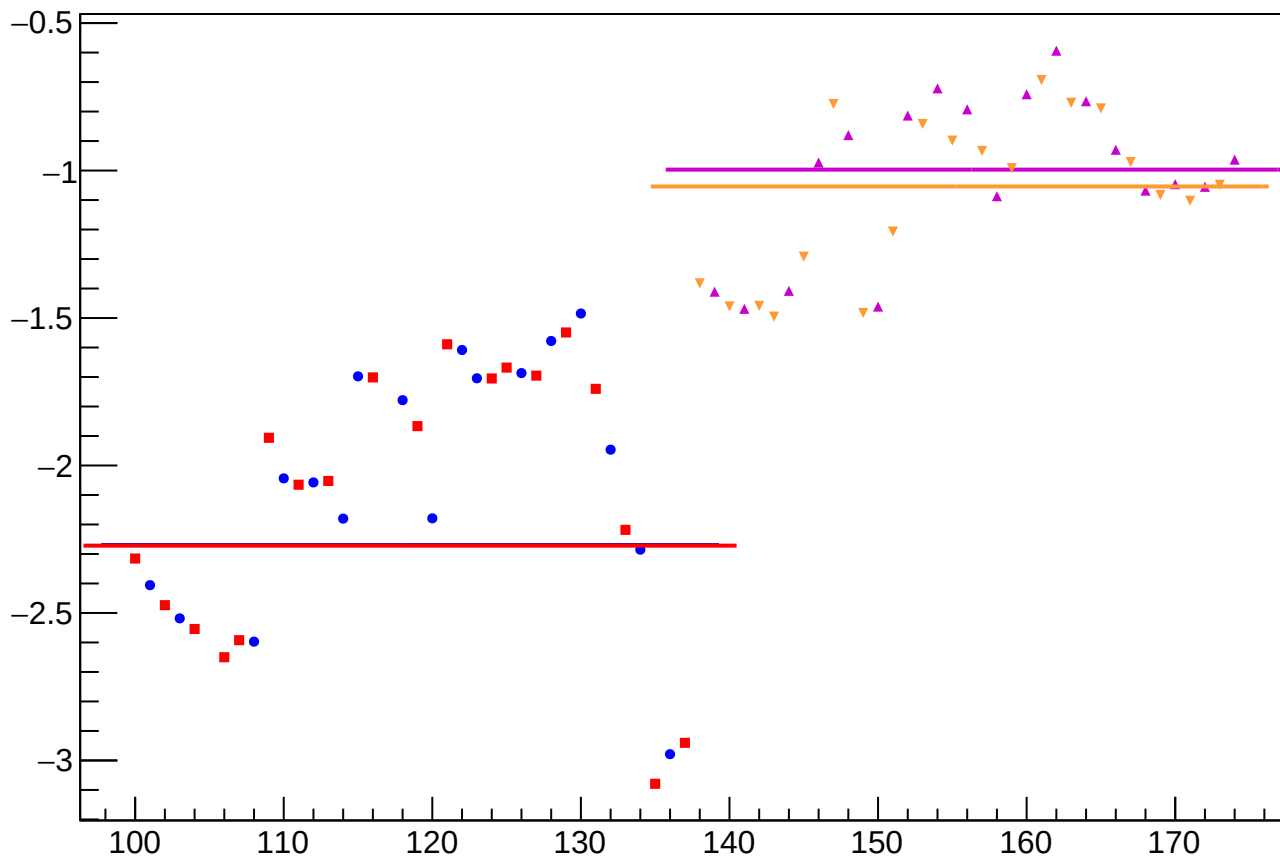
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :585002.2/34

Out: 0.008+/-0.000 χ^2/NDF :557913.7/37

All: 0.008+/-0.000 χ^2/NDF : 1143604.1/72

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.054+/-0.000 χ^2/NDF : 17611873241.2/18

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.997+/-0.000 χ^2/NDF : 18125498697.2/17

Left: -1.025+/-0.000 χ^2/NDF : 36266257278.0/36

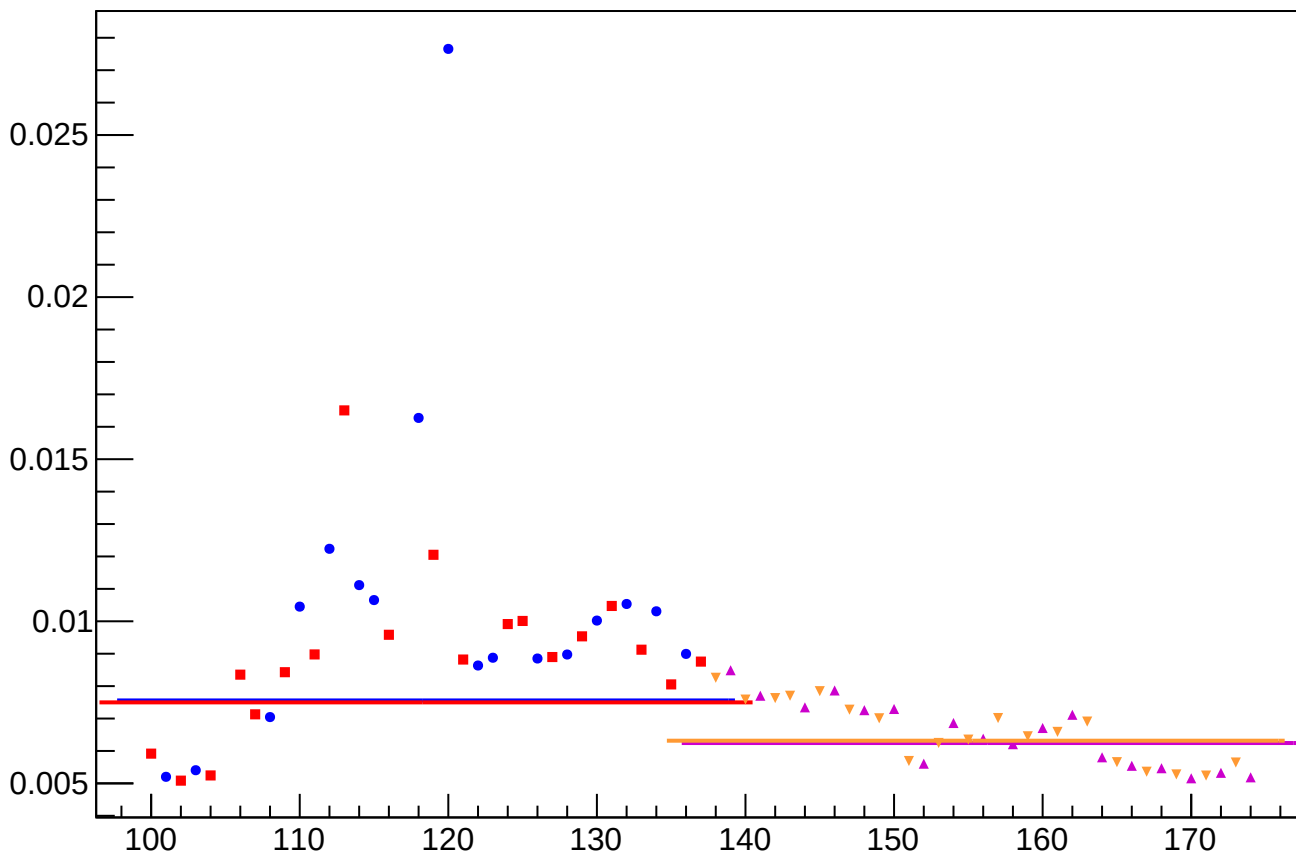
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.267+/-0.000 χ^2/NDF : 147912365504.0/34

Out: -1.342+/-0.000 χ^2/NDF : 149319219402.4/37

All: -1.305+/-0.000 χ^2/NDF : 298397434722.9

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 519362.7/18

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 593802.5/17

Left: 0.006+/-0.000 χ^2/NDF : 1114832.6/36

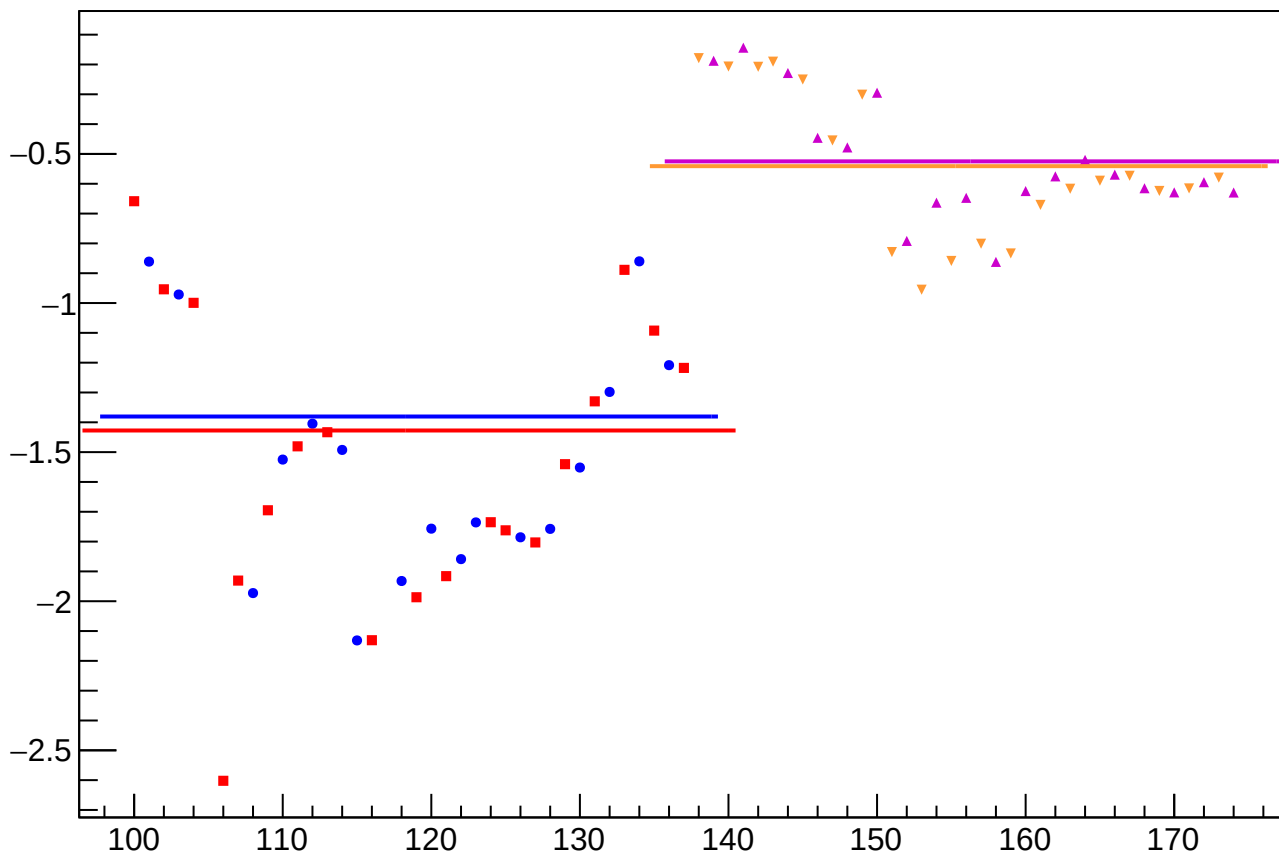
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF : 2054137.7/34

Out: 0.007+/-0.000 χ^2/NDF : 1665760.7/37

All: 0.007+/-0.000 χ^2/NDF : 3722079.3/72

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.533+/-0.000

χ^2/NDF : 75865245010.6/36

Left Out: -0.541+/-0.000

χ^2/NDF : 45380619849.9/18

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

In: -0.651+/-0.000

χ^2/NDF : 131456474583.8/34

Out: -0.688+/-0.000

χ^2/NDF : 174603008876.4/37

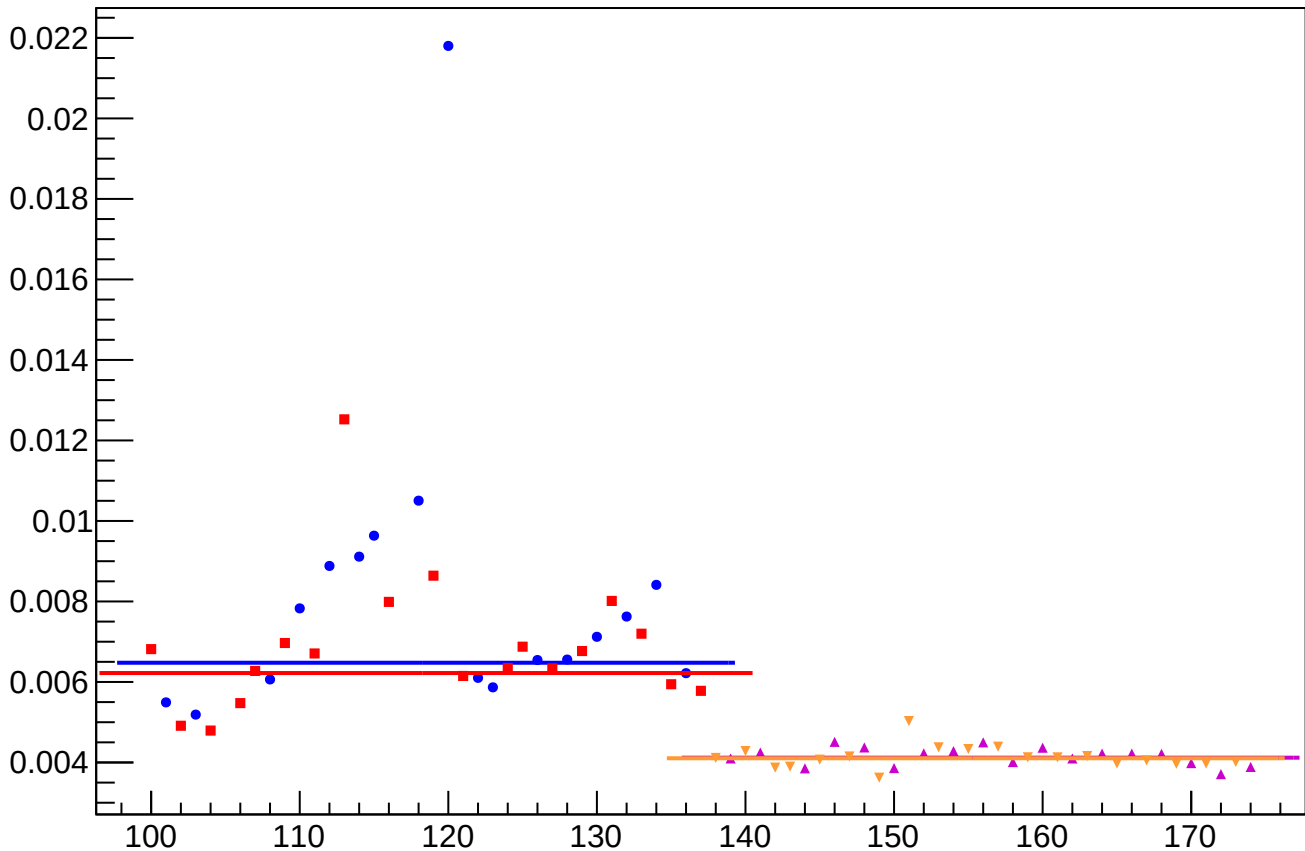
Left In: -0.525+/-0.000

χ^2/NDF : 30386094391.2/17

All: -0.670+/-0.000

χ^2/NDF : 306673167983.9

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF : 95069.4/18

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 74893.3/17

Left: 0.004+/-0.000 χ^2/NDF : 170121.2/36

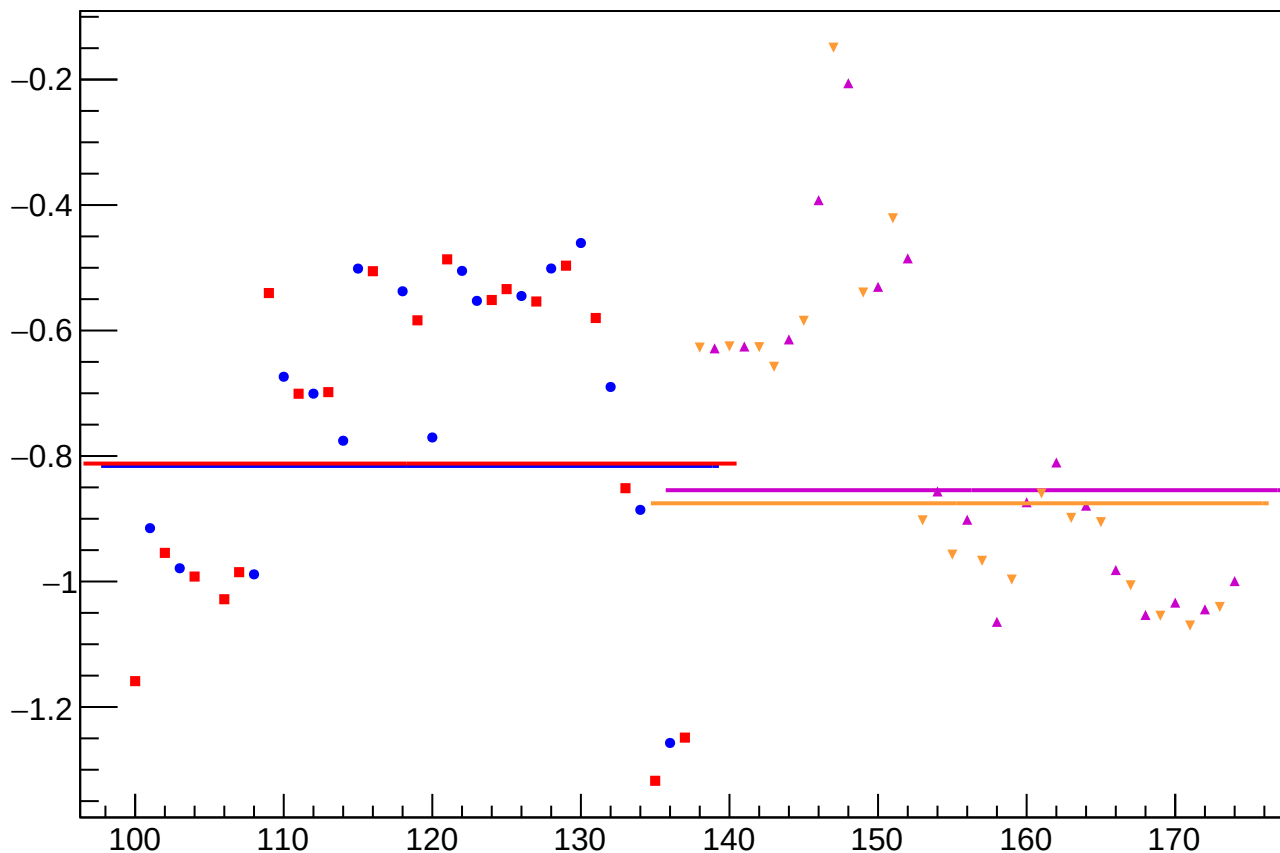
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF : 1879556.1/34

Out: 0.004+/-0.000 χ^2/NDF : 1655301.9/37

All: 0.004+/-0.000 χ^2/NDF : 3534967.2/72

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.875+/-0.000 χ^2/NDF : 39097006340.2/18

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.854+/-0.000 χ^2/NDF : 42962865225.7/17

Left: -0.865+/-0.000 χ^2/NDF : 82250661719.3/36

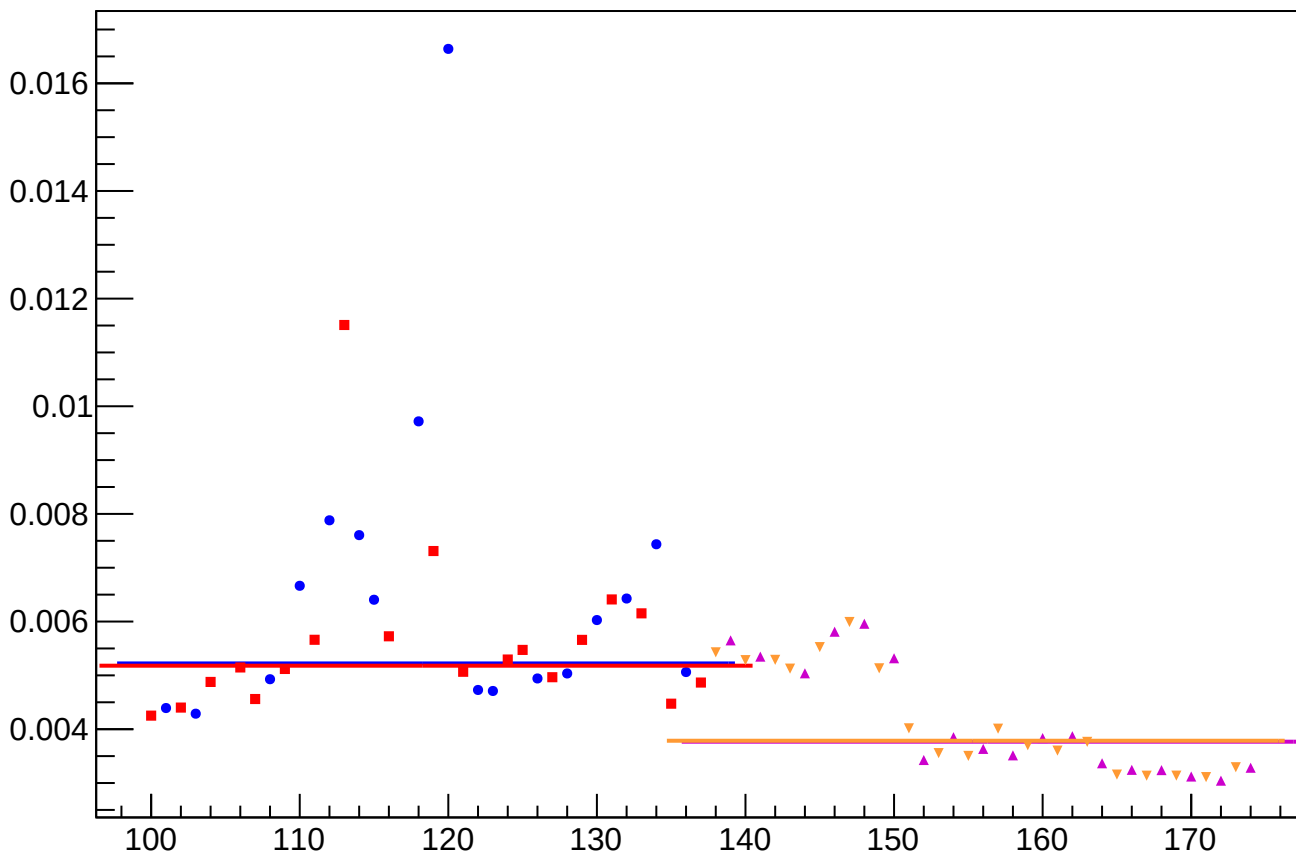
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.847+/-0.000 χ^2/NDF : 57375469371.2/34

Out: -0.863+/-0.000 χ^2/NDF : 56621103365.8/37

All: -0.855+/-0.000 χ^2/NDF : 114120895431.6

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF :1122778.3/18

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1183563.4/17

Left: 0.004+/-0.000 χ^2/NDF : 2306623.8/36

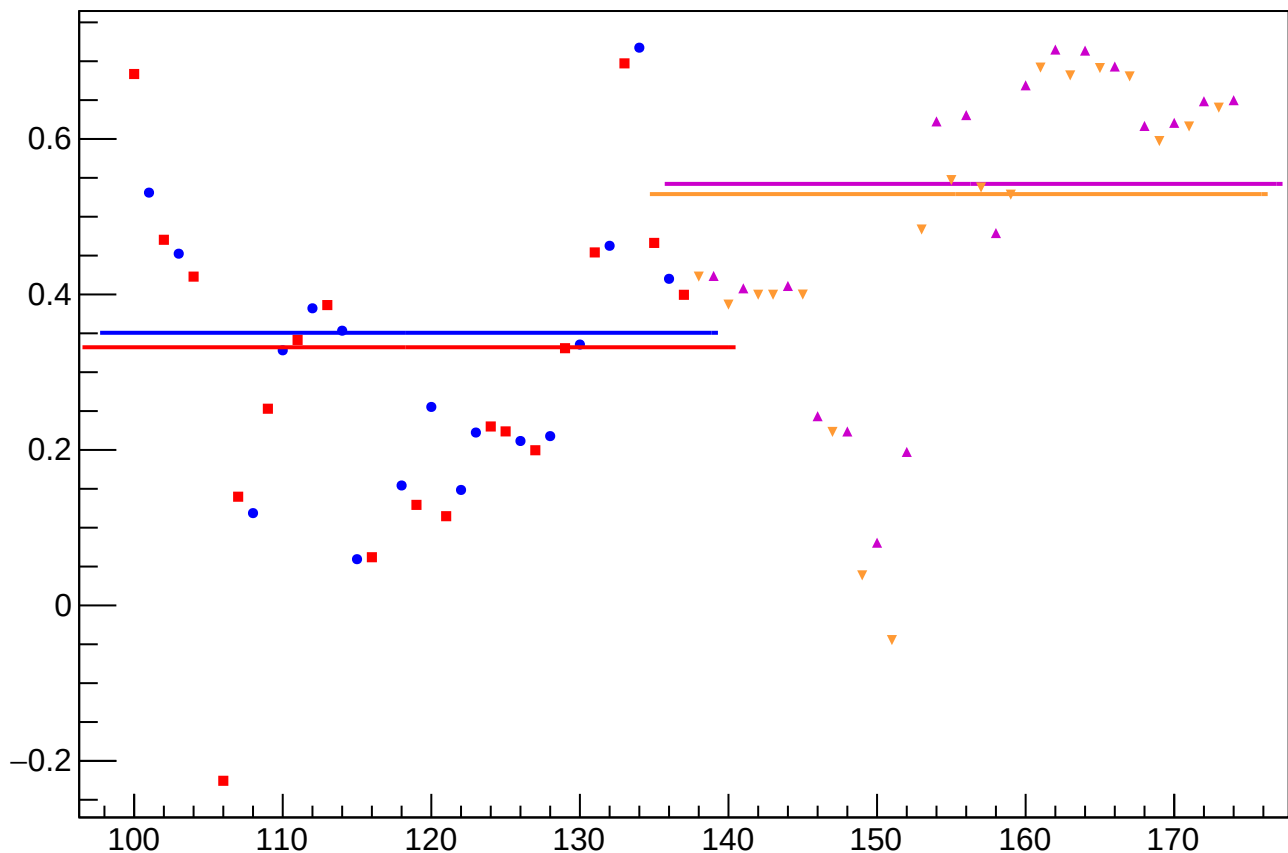
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2525395.3/34

Out: 0.004+/-0.000 χ^2/NDF :2173246.3/37

All: 0.004+/-0.000 χ^2/NDF : 4699905.0/72

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.529+/-0.000 χ^2/NDF : 39670588653.2/18

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.542+/-0.000 χ^2/NDF : 37851873877.5/17

Left: 0.536+/-0.000 χ^2/NDF : 77627491596.2/36

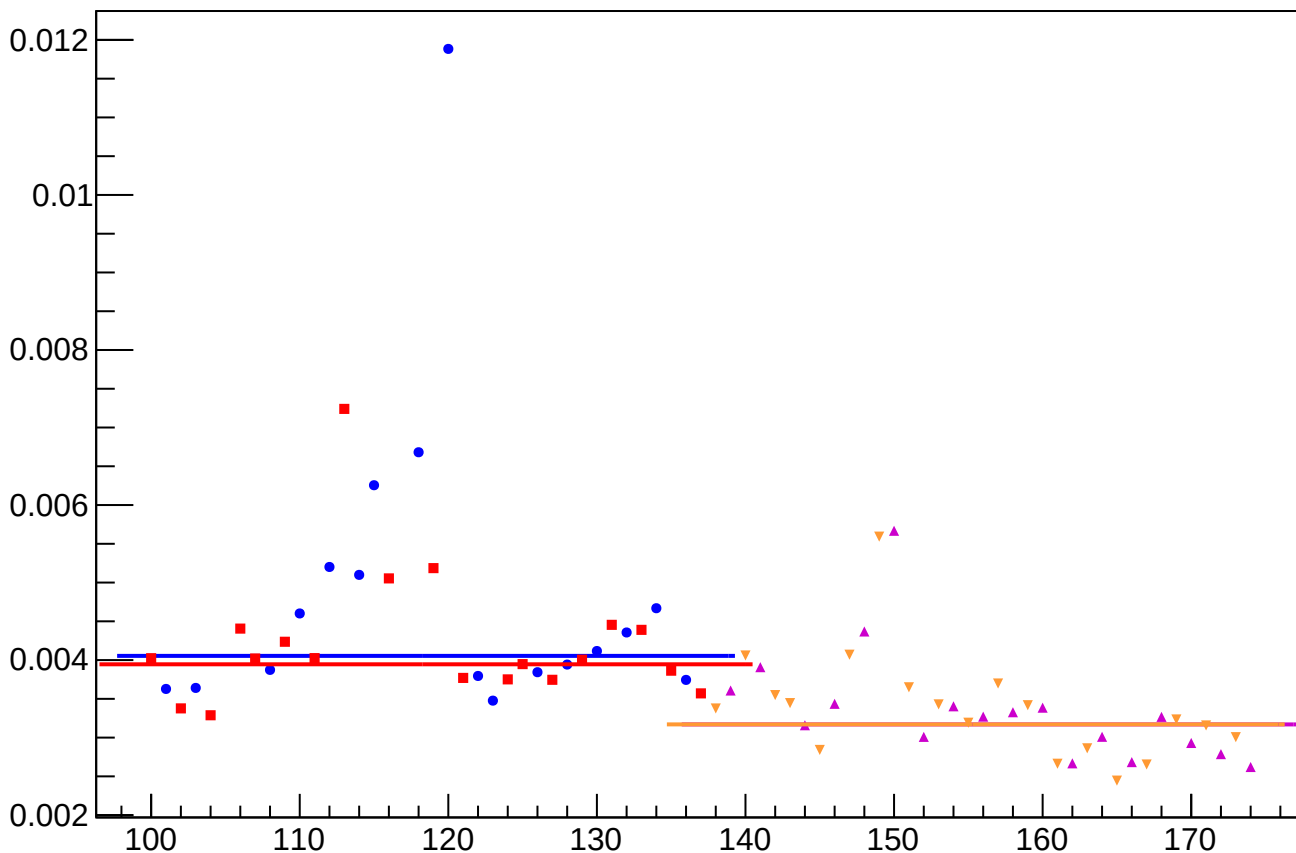
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.500+/-0.000 χ^2/NDF : 55164755875.3/34

Out: 0.481+/-0.000 χ^2/NDF : 63011782888.9/37

All: 0.490+/-0.000 χ^2/NDF : 118454630931.1

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 713254.2/18

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 683062.8/17

Left: 0.003+/-0.000 χ^2/NDF : 1396317.2/36

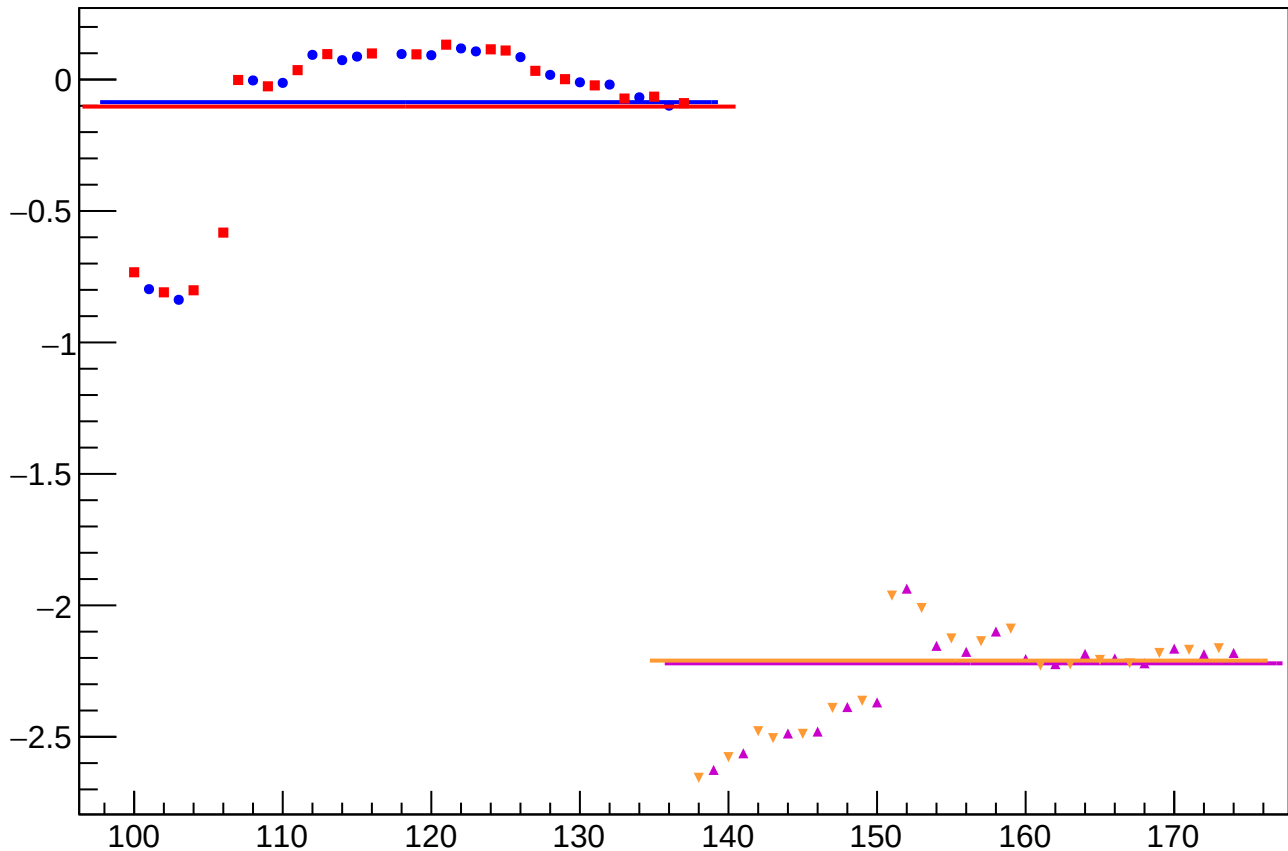
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1560397.2/34

Out: 0.003+/-0.000 χ^2/NDF : 1331562.4/37

All: 0.003+/-0.000 χ^2/NDF : 2892027.1/72

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.210+/-0.000 χ^2/NDF : 3464725484.8/18

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.221+/-0.000 χ^2/NDF : 2755136969.0/17

Left: -2.215+/-0.000 χ^2/NDF : 6226353342.2/36

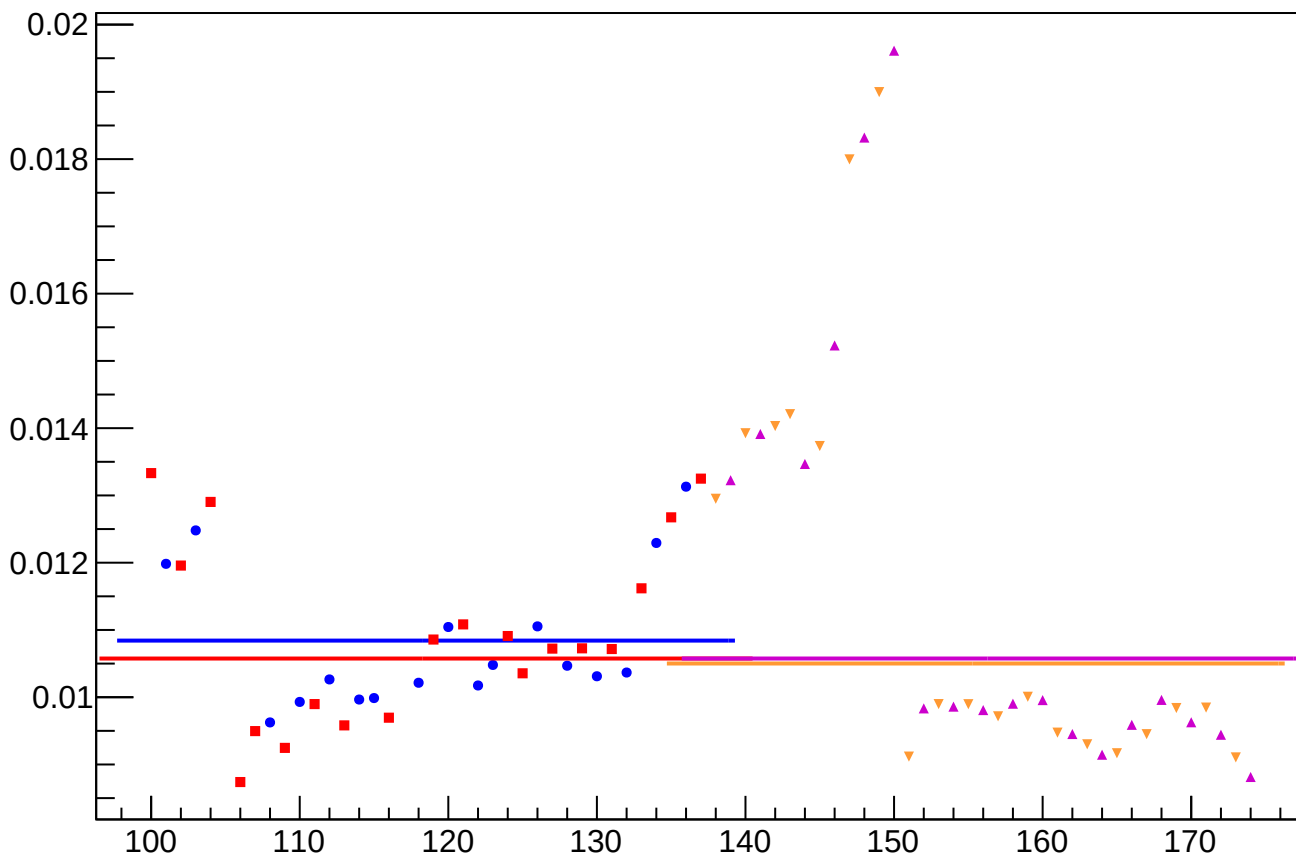
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.530+/-0.000 χ^2/NDF : 181830101566.9/34

Out: -1.497+/-0.000 χ^2/NDF : 193207563887.4/37

All: -1.513+/-0.000 χ^2/NDF : 375138626392.7

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :1163110.4/18

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF :1237363.8/17

Left: 0.011+/-0.000 χ^2/NDF : 2401136.9/36

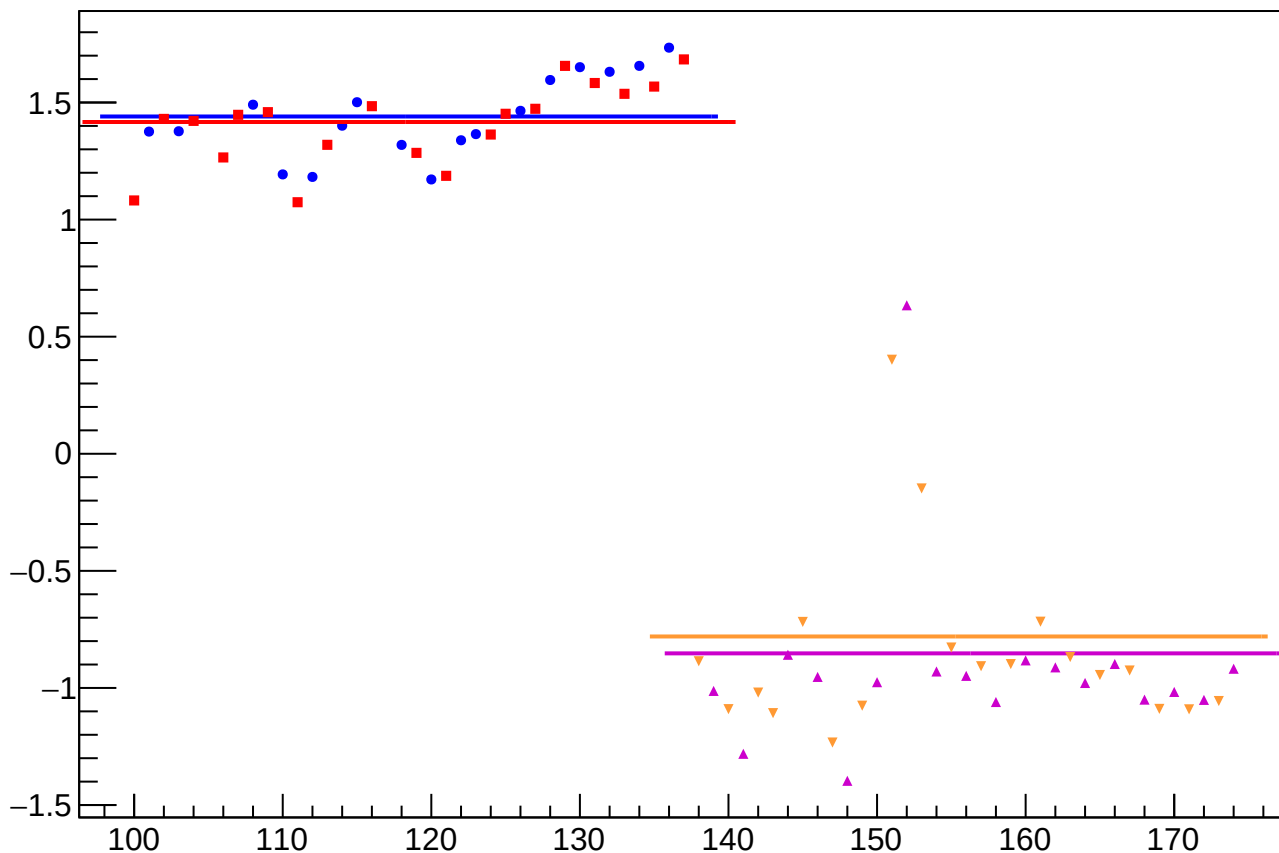
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1367047.1/34

Out: 0.011+/-0.000 χ^2/NDF :1342531.6/37

All: 0.011+/-0.000 χ^2/NDF : 2712870.5/72

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.780 $\pm$ 0.000 χ^2 /NDF:34786633086.5/18

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.852 $\pm$ 0.000 χ^2 /NDF:41319543327.7/17

Left: -0.816 $\pm$ 0.000 χ^2 /NDF: 76609730272.9/36

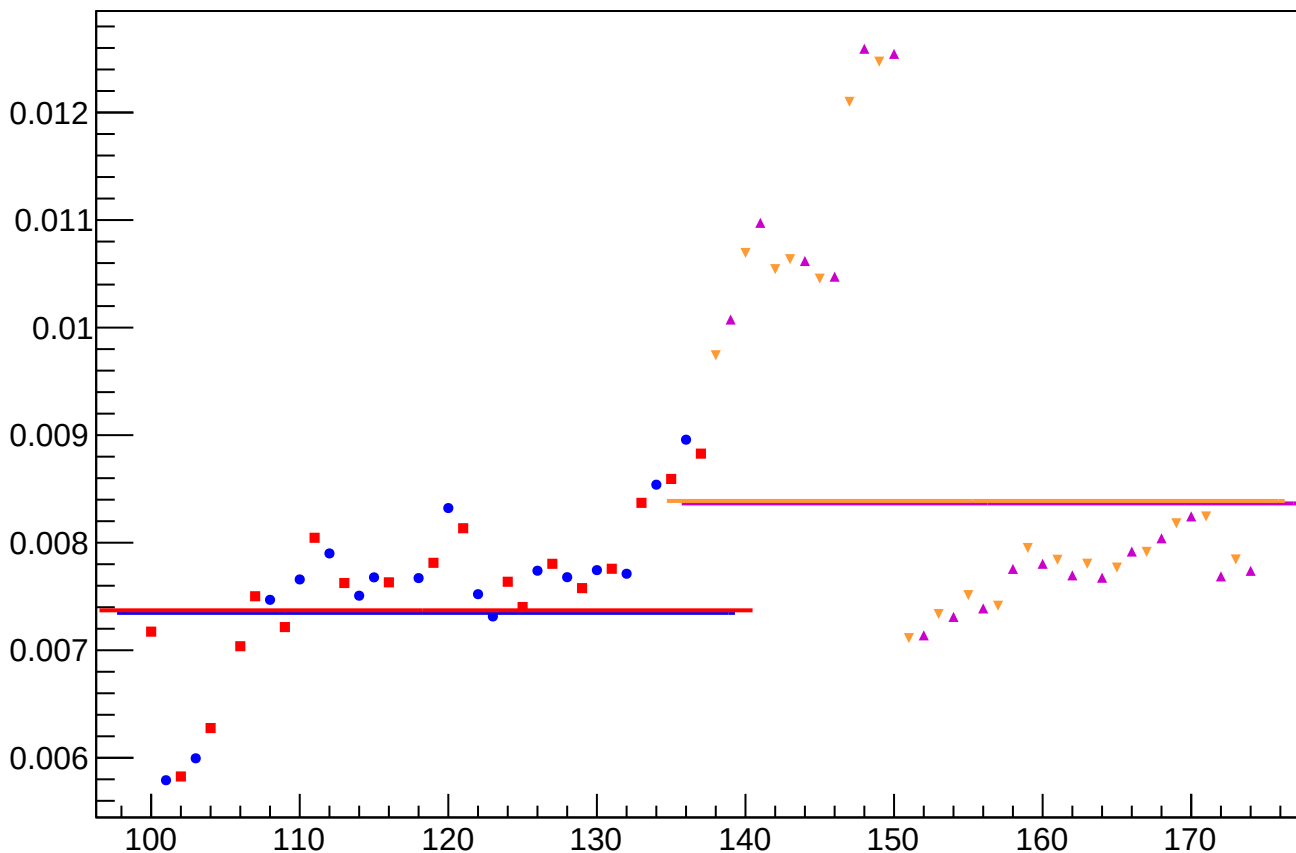
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.038 $\pm$ 0.000 χ^2 /NDF:436989072776.6/34

Out: 0.095 $\pm$ 0.000 χ^2 /NDF:412477685686.4/37

All: 0.067 $\pm$ 0.000 χ^2 /NDF: 849975030223.7

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 748943.5/18

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 826562.6/17

Left: 0.008+/-0.000 χ^2/NDF : 1575610.7/36

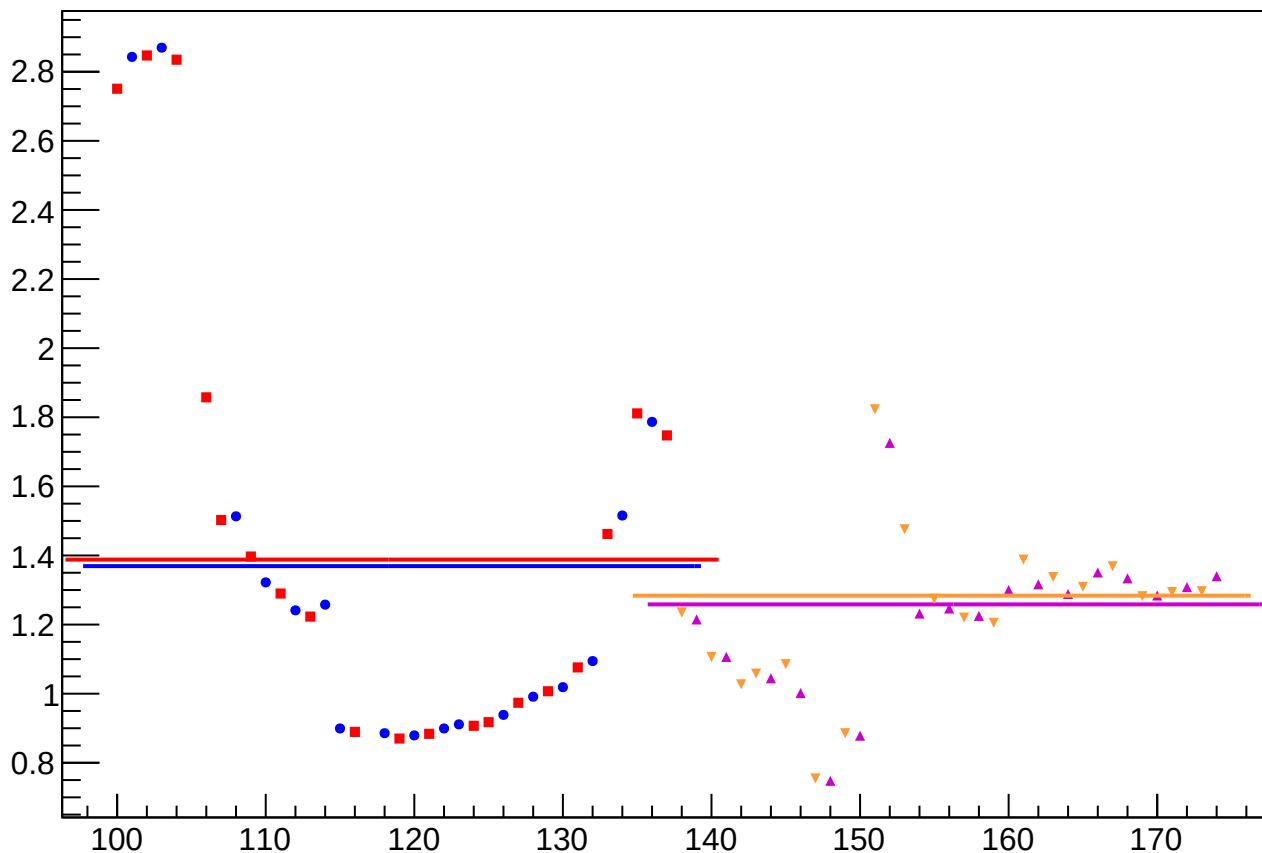
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1209202.1/34

Out: 0.008+/-0.000 χ^2/NDF : 1082427.2/37

All: 0.008+/-0.000 χ^2/NDF : 2291686.2/72

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.284+/-0.000 χ^2/NDF : 9118724653.7/18

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.258+/-0.000 χ^2/NDF : 7373998157.3/17

Left: 1.271+/-0.000 χ^2/NDF : 16557062033.1/36

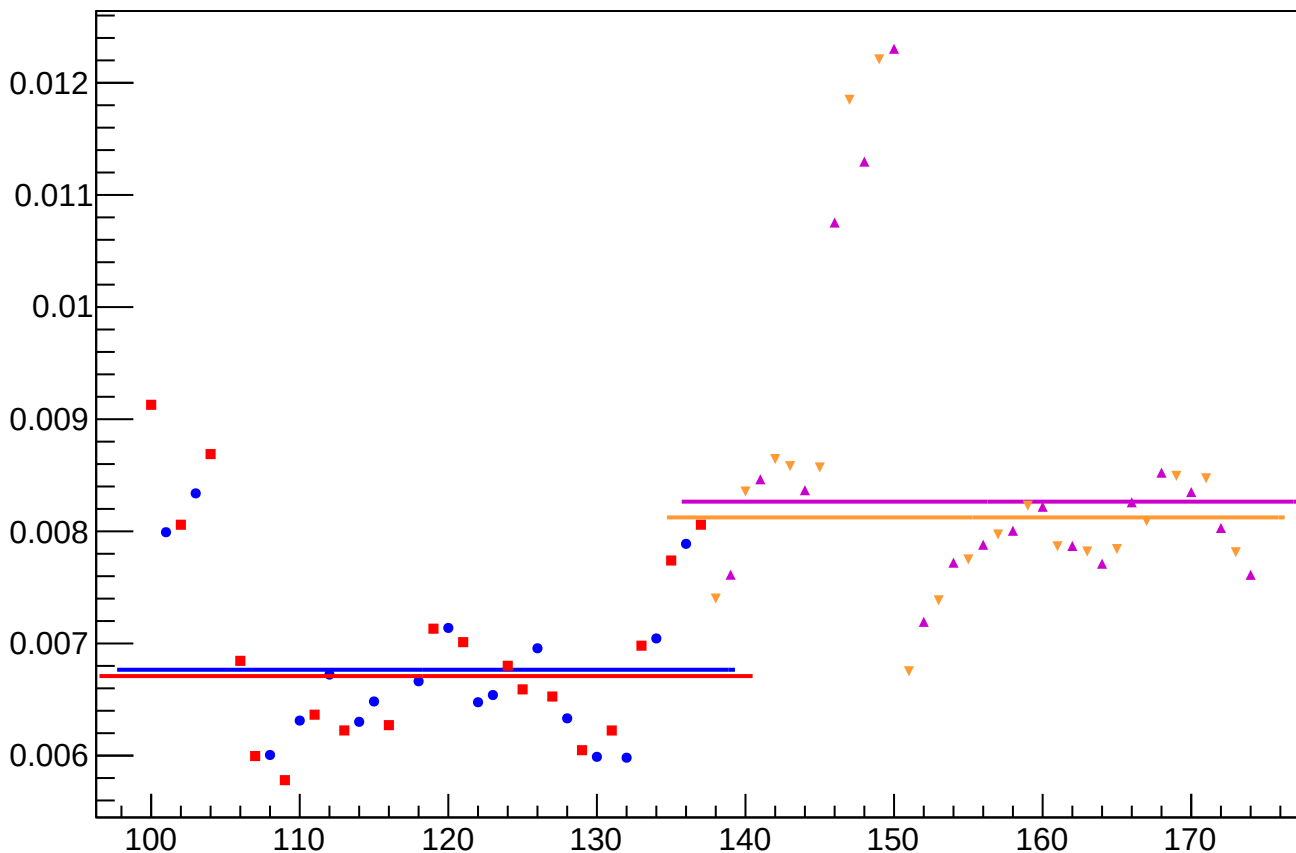
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.305+/-0.000 χ^2/NDF : 62599329496.5/34

Out: 1.329+/-0.000 χ^2/NDF : 59981337153.8/37

All: 1.317+/-0.000 χ^2/NDF : 122675241699.4

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 419264.2/18

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 442244.8/17

Left: 0.008+/-0.000 χ^2/NDF : 865476.6/36

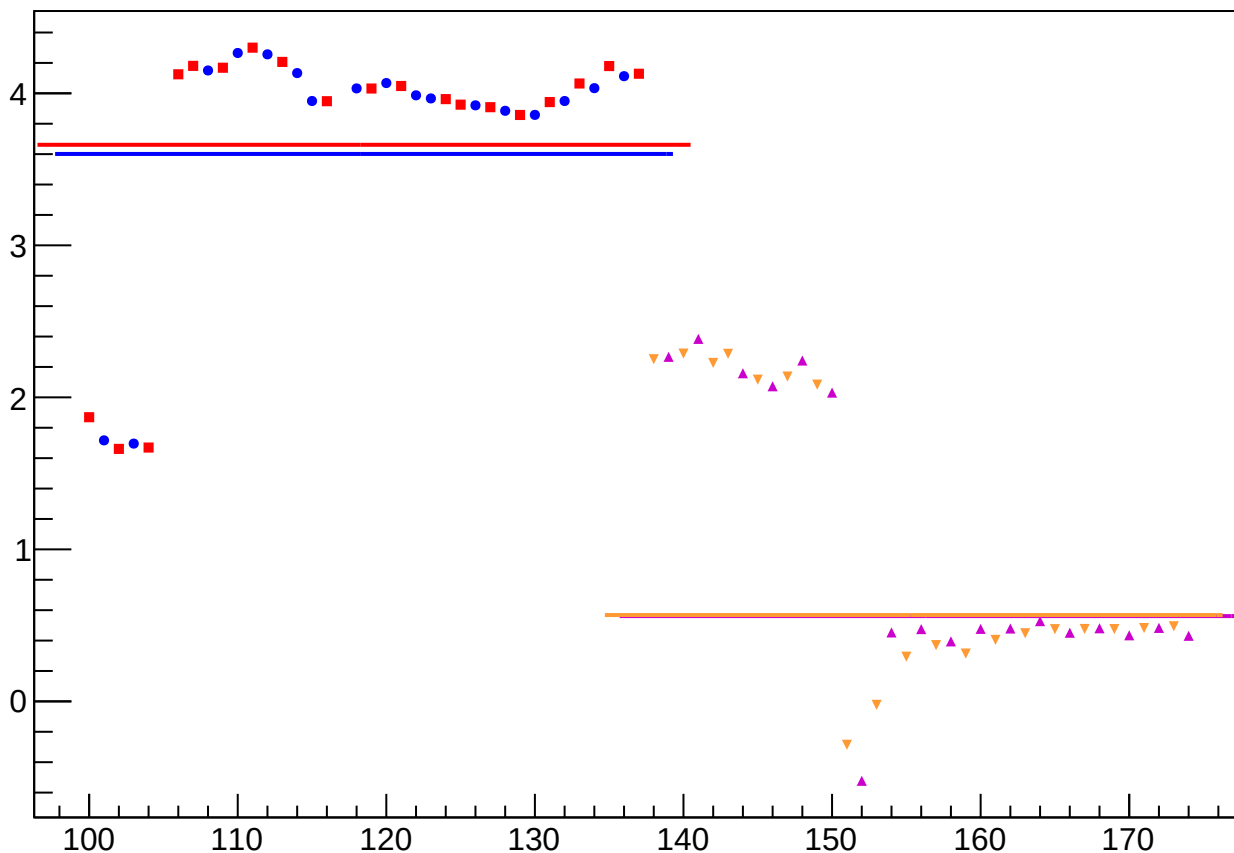
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 975475.5/34

Out: 0.008+/-0.000 χ^2/NDF : 961363.8/37

All: 0.008+/-0.000 χ^2/NDF : 1941371.5/72

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.568+/-0.000 χ^2/NDF : 258203493401.5/18

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.561+/-0.000 χ^2/NDF : 255798824303.1/17

Left: 0.564+/-0.000 χ^2/NDF : 514016533141.5/36

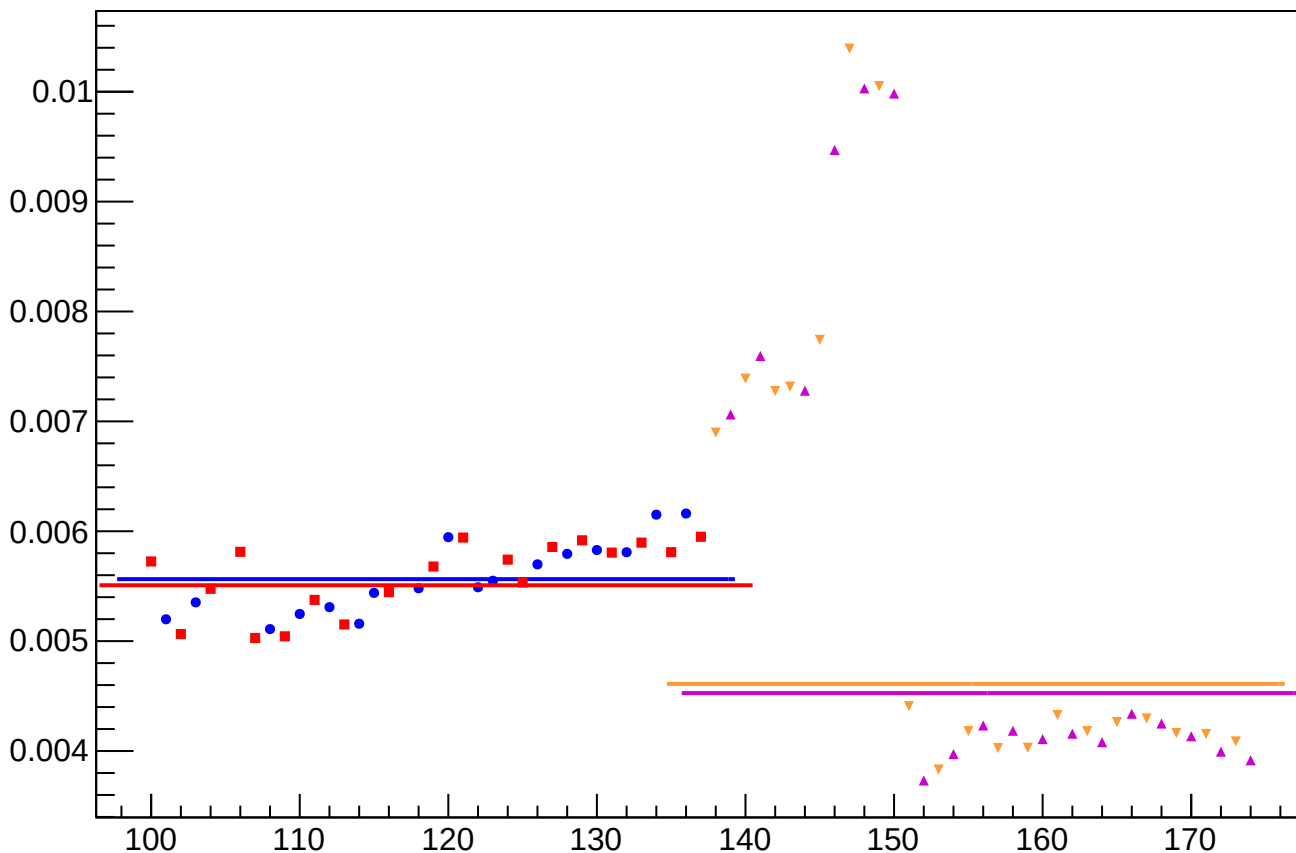
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.364+/-0.000 χ^2/NDF : 1910340520988.4/34

Out: 1.432+/-0.000 χ^2/NDF : 2032066520688.2/37

All: 1.398+/-0.000 χ^2/NDF : 3944293474177.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF :1993961.4/18

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2216613.4/17

Left: 0.005+/-0.000 χ^2/NDF : 4214798.1/36

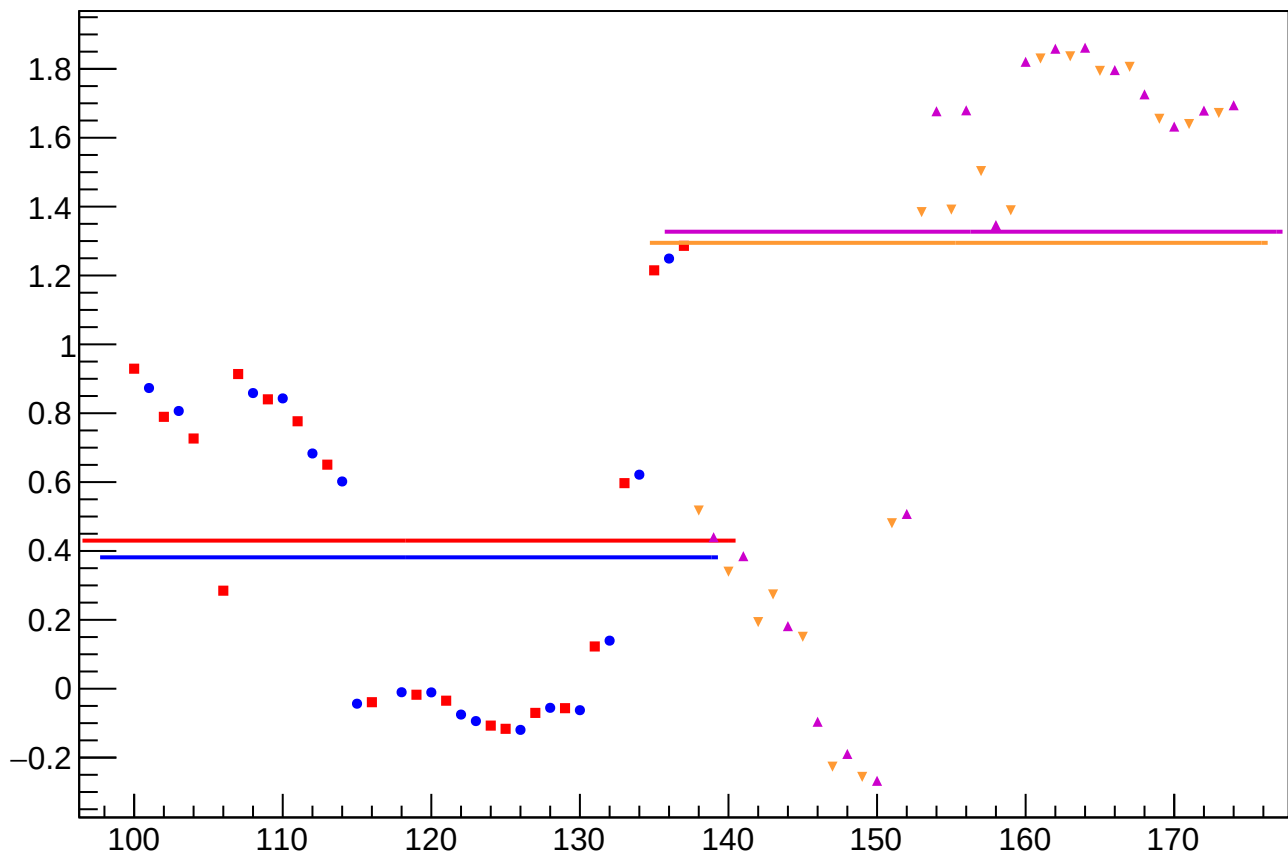
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2605957.5/34

Out: 0.005+/-0.000 χ^2/NDF :2312669.9/37

All: 0.005+/-0.000 χ^2/NDF : 4921659.3/72

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.295 $\pm$ 0.000 χ^2 /NDF: 41640707239.4/18

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.327 $\pm$ 0.000 χ^2 /NDF: 47309525567.4/17

Left: 1.311 $\pm$ 0.000 χ^2 /NDF: 89005212280.8/36

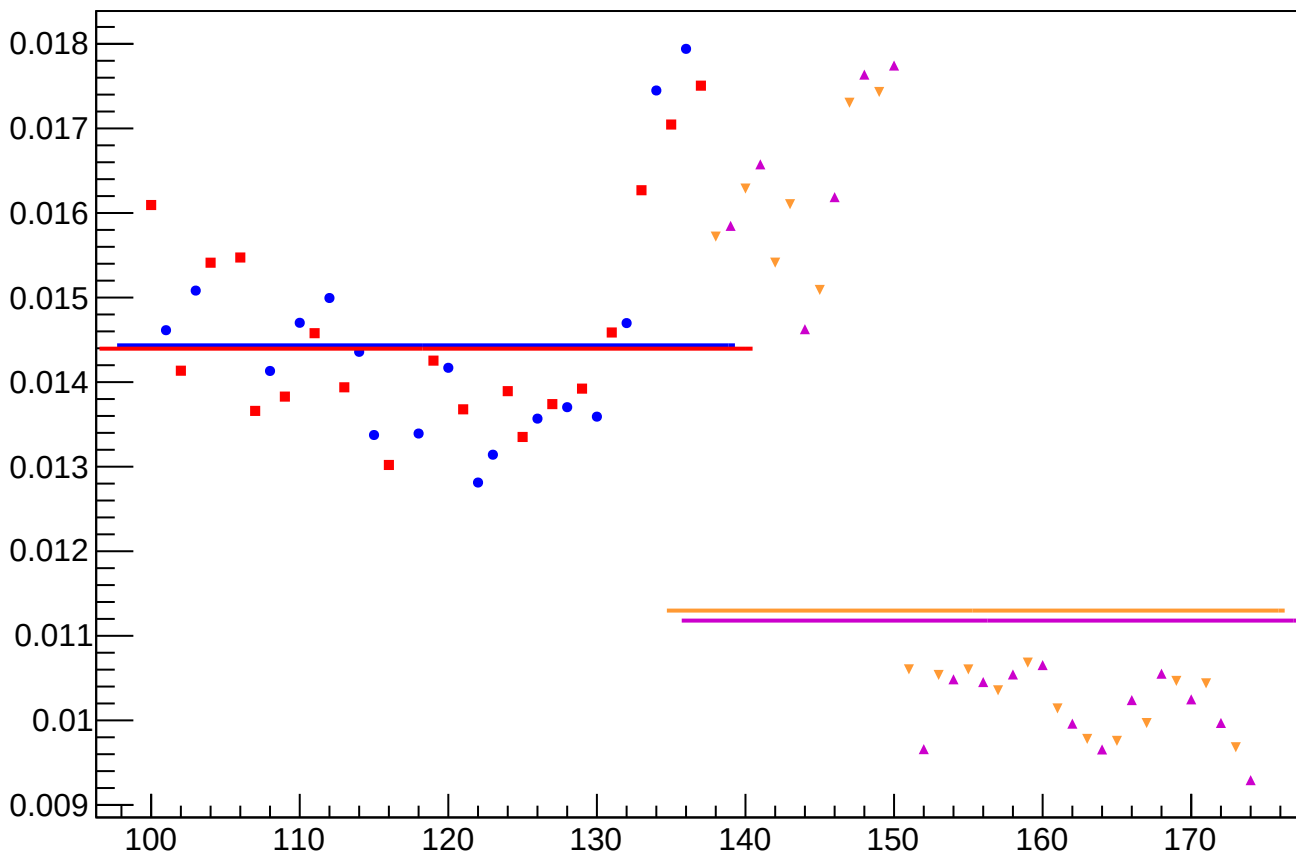
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 1.108 $\pm$ 0.000 χ^2 /NDF: 76271860715.5/34

Out: 1.086 $\pm$ 0.000 χ^2 /NDF: 67321824999.2/37

All: 1.097 $\pm$ 0.000 χ^2 /NDF: 143627309376.5

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 1130132.3/18

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.011+/-0.000 χ^2/NDF : 1213543.2/17

Left: 0.011+/-0.000 χ^2/NDF : 2345150.7/36

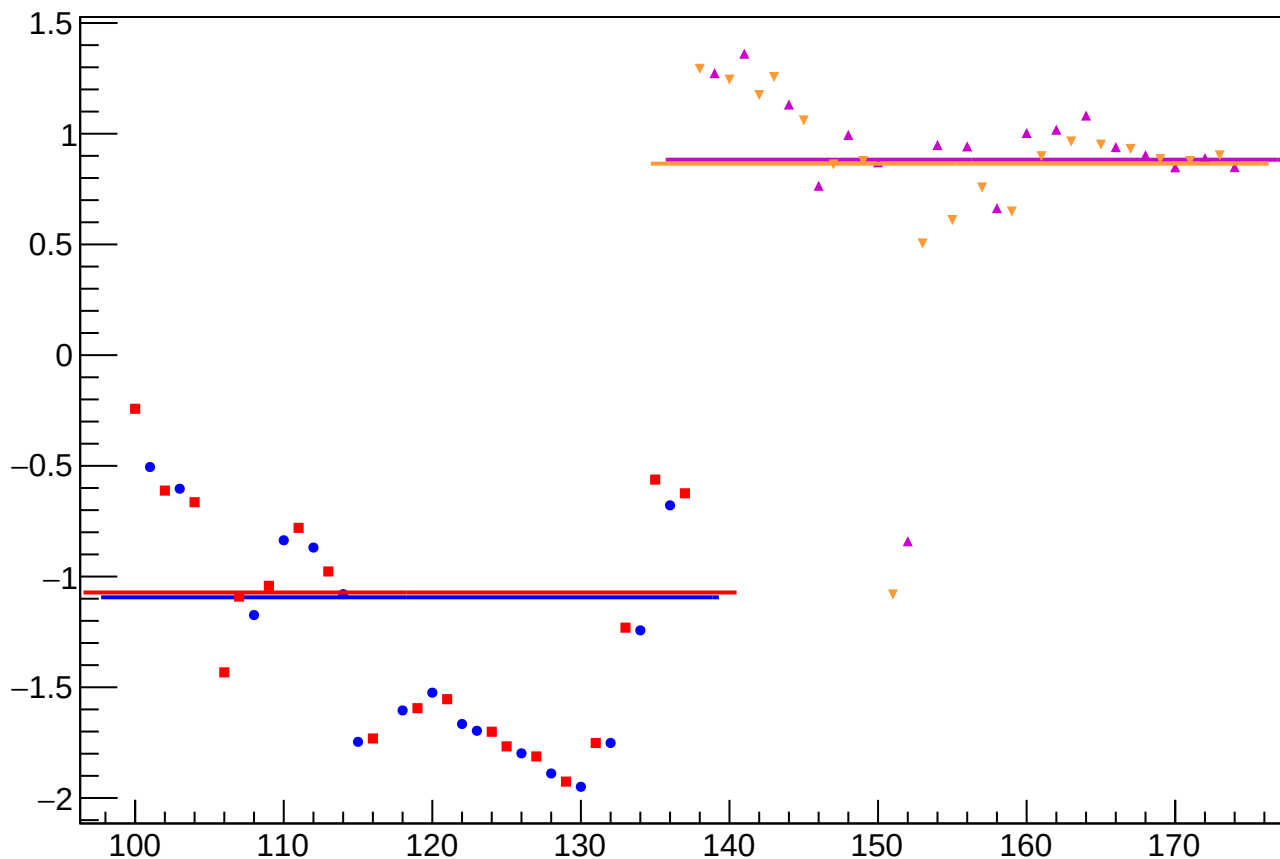
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF : 1841292.1/34

Out: 0.012+/-0.000 χ^2/NDF : 1692290.6/37

All: 0.012+/-0.000 χ^2/NDF : 3535320.9/72

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.865+/-0.000 χ^2/NDF : 124893749836.0/18

Right Out: -1.072+/-0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.883+/-0.000 χ^2/NDF : 145874560282.2/17

Left: 0.874+/-0.000 χ^2/NDF : 270914471940.1/36

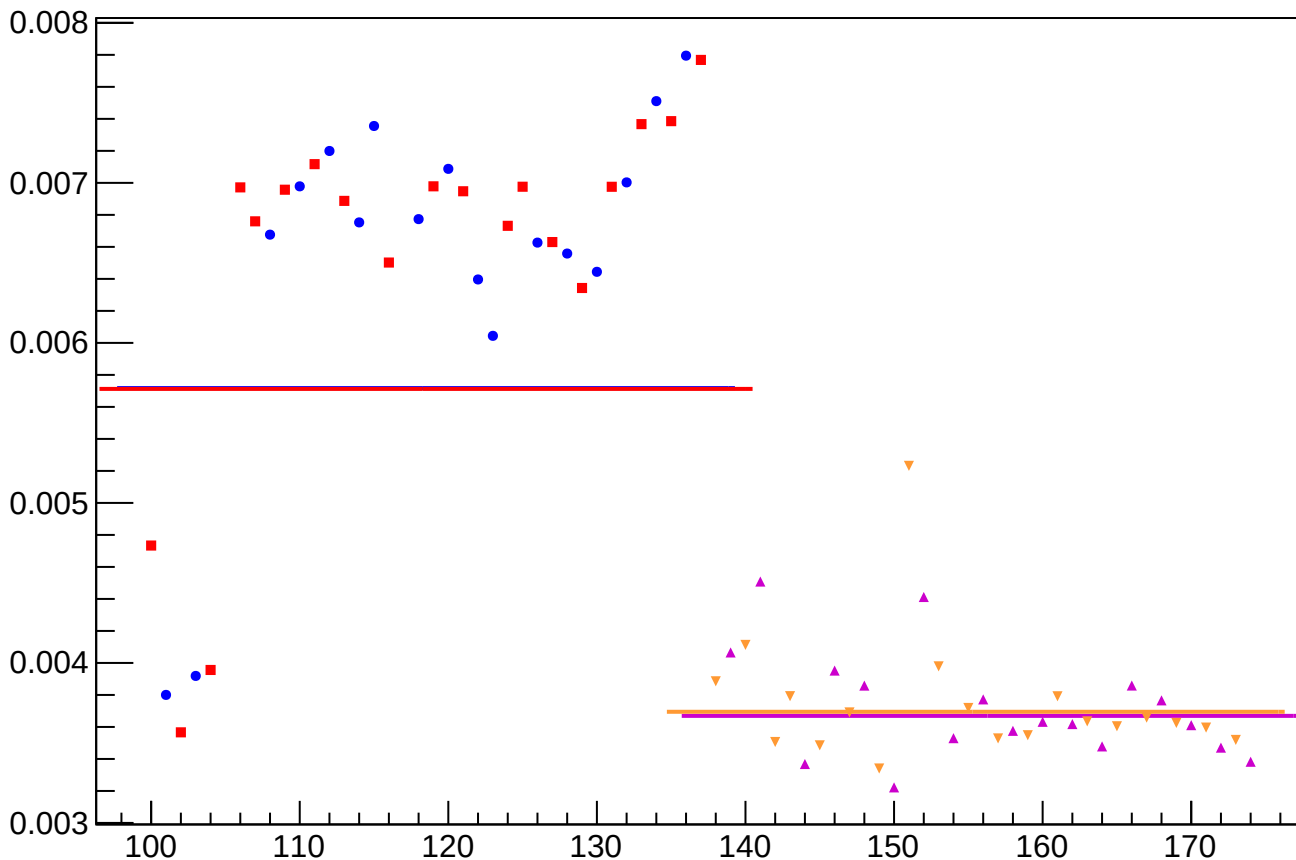
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.561+/-0.000 χ^2/NDF : 795767831676.8/34

Out: 0.540+/-0.000 χ^2/NDF : 761565069481.4/37

All: 0.551+/-0.000 χ^2/NDF : 1557563228327.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :167436.2/18

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :188340.9/17

Left: 0.004+/-0.000 χ^2/NDF : 356388.8/36

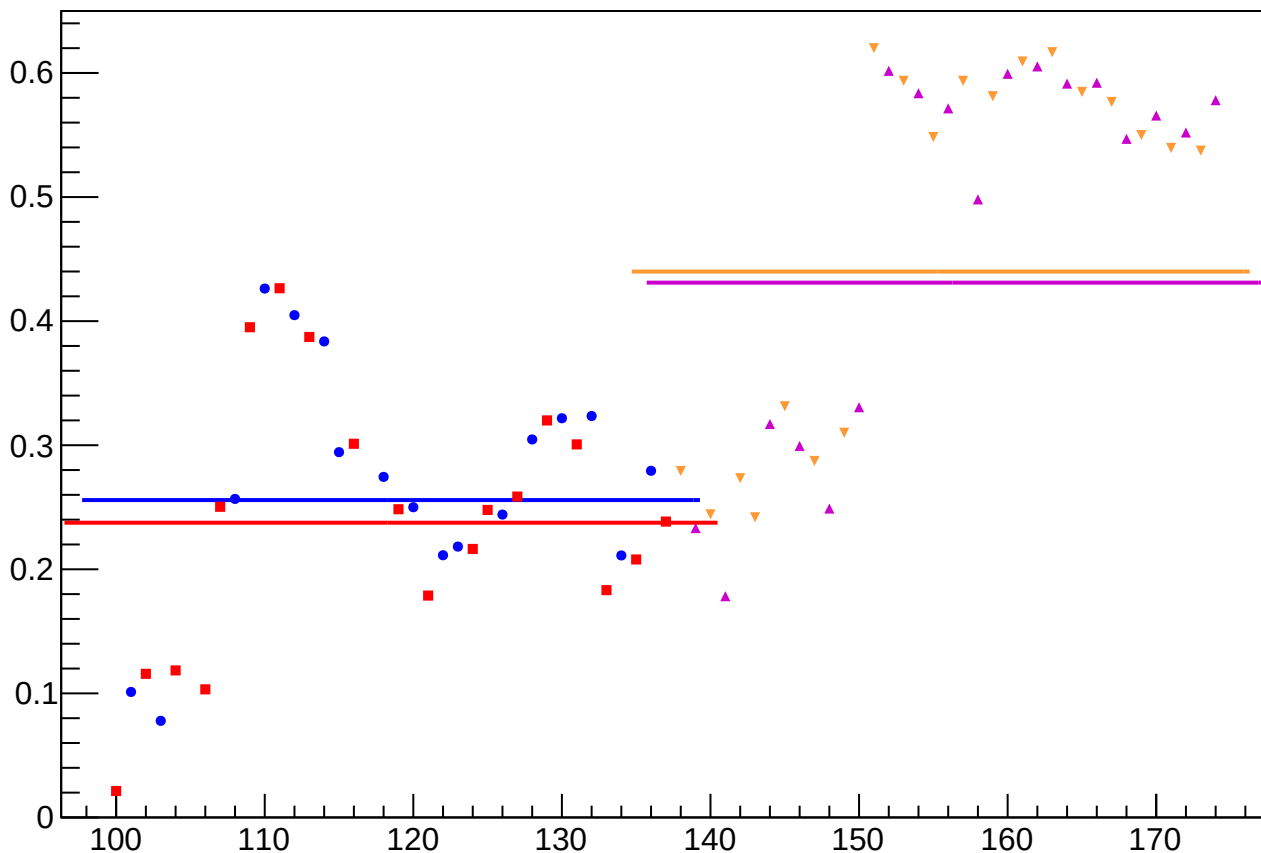
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2302069.2/34

Out: 0.004+/-0.000 χ^2/NDF :2371410.7/37

All: 0.004+/-0.000 χ^2/NDF : 4674487.8/72

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256 $\pm$ 0.000 χ^2 /NDF: 21365489849.4/16

Left Out: 0.440 $\pm$ 0.000 χ^2 /NDF: 86310455225.9/18

Right Out: 0.238 $\pm$ 0.000 χ^2 /NDF: 26057284646.9/18

Left In: 0.431 $\pm$ 0.000 χ^2 /NDF: 87172959879.3/17

Left: 0.436 $\pm$ 0.000 χ^2 /NDF: 173627442105.4/36

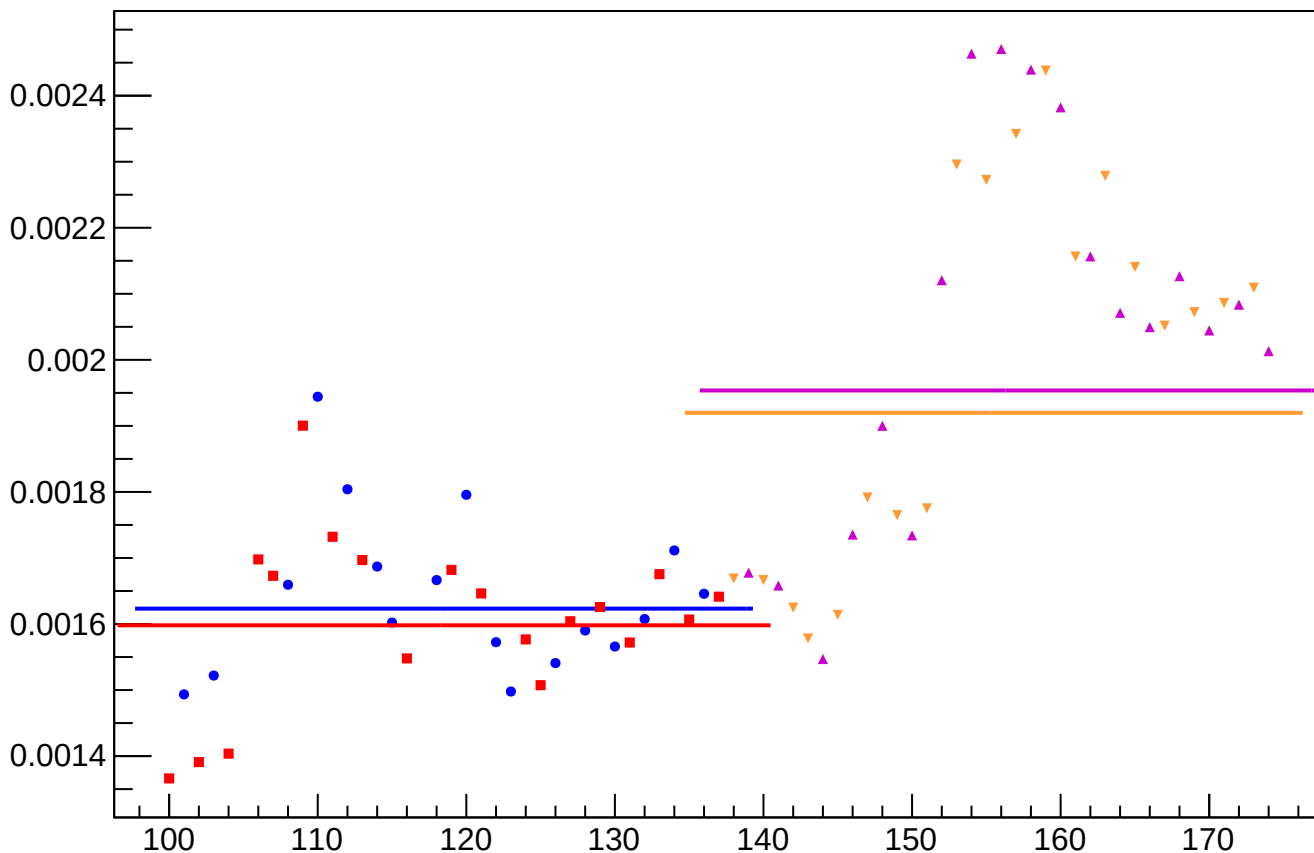
Right: 0.246 $\pm$ 0.000 χ^2 /NDF: 47851542841.4/35

In: 0.359 $\pm$ 0.000 χ^2 /NDF: 152801304571.7/34

Out: 0.355 $\pm$ 0.000 χ^2 /NDF: 176902944081.2/37

All: 0.357 $\pm$ 0.000 χ^2 /NDF: 329765788800.8

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF :553093.5/18

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF :564774.7/17

Left: 0.002+/-0.000 χ^2/NDF : 1122009.5/36

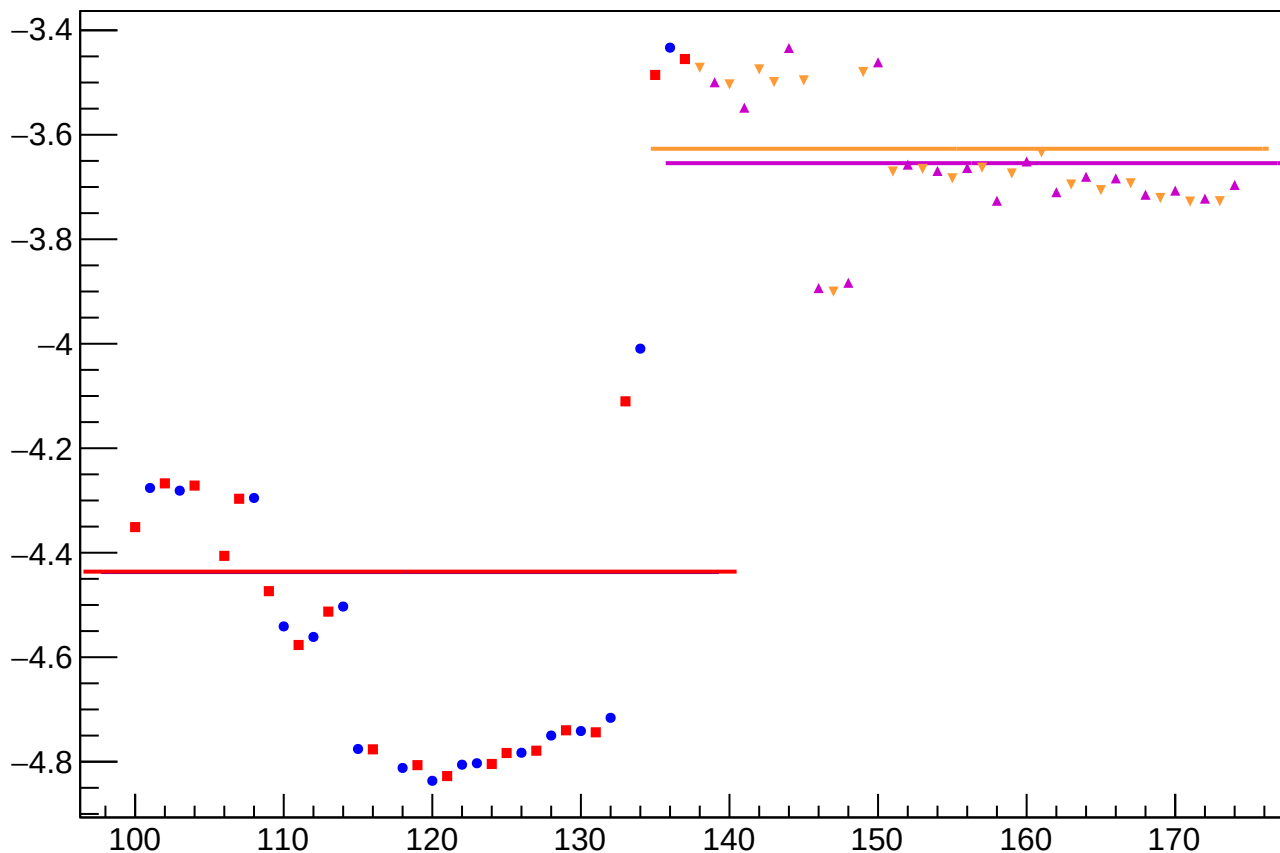
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :931862.1/34

Out: 0.002+/-0.000 χ^2/NDF :970018.5/37

All: 0.002+/-0.000 χ^2/NDF : 1908978.0/72

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000

χ^2/NDF : 392812415429.0/16

Left: -3.640 $\pm$ 0.000

χ^2/NDF : 87275526237.5/36

Left Out: -3.627 $\pm$ 0.000

χ^2/NDF : 40107027977.0/18

Right: -4.437 $\pm$ 0.000

χ^2/NDF : 717996921060.6/35

Right Out: -4.436 $\pm$ 0.000

χ^2/NDF : 325183860699.4/18

In: -3.968 $\pm$ 0.000

χ^2/NDF : 1172294992355.2/34

Out: -3.957 $\pm$ 0.000

χ^2/NDF : 1189437227226.2/37

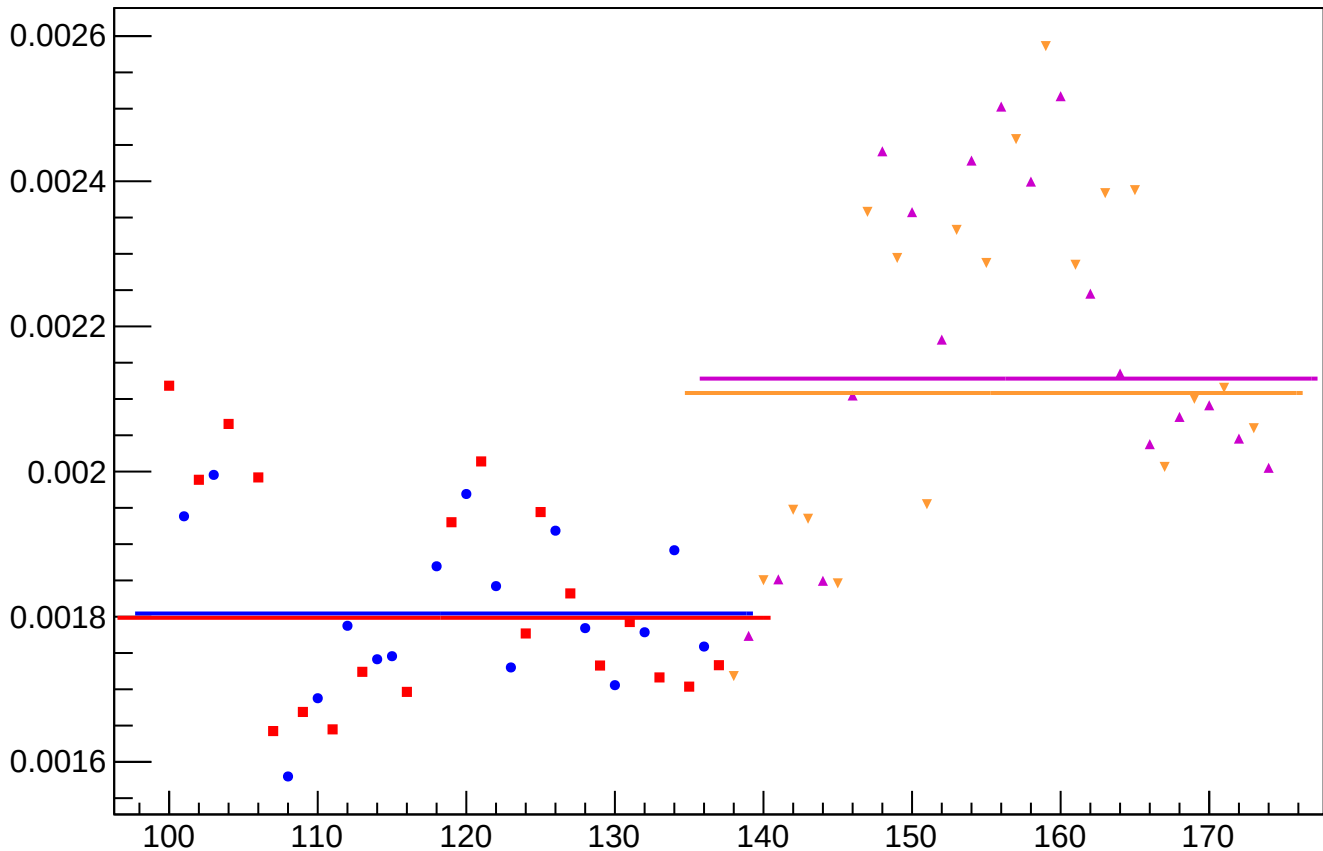
Left In: -3.654 $\pm$ 0.000

χ^2/NDF : 46013869503.9/17

All: -3.962 $\pm$ 0.000

χ^2/NDF : 2362051561171

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :343602.1/18

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :305111.0/17

Left: 0.002+/-0.000 χ^2/NDF : 649906.4/36

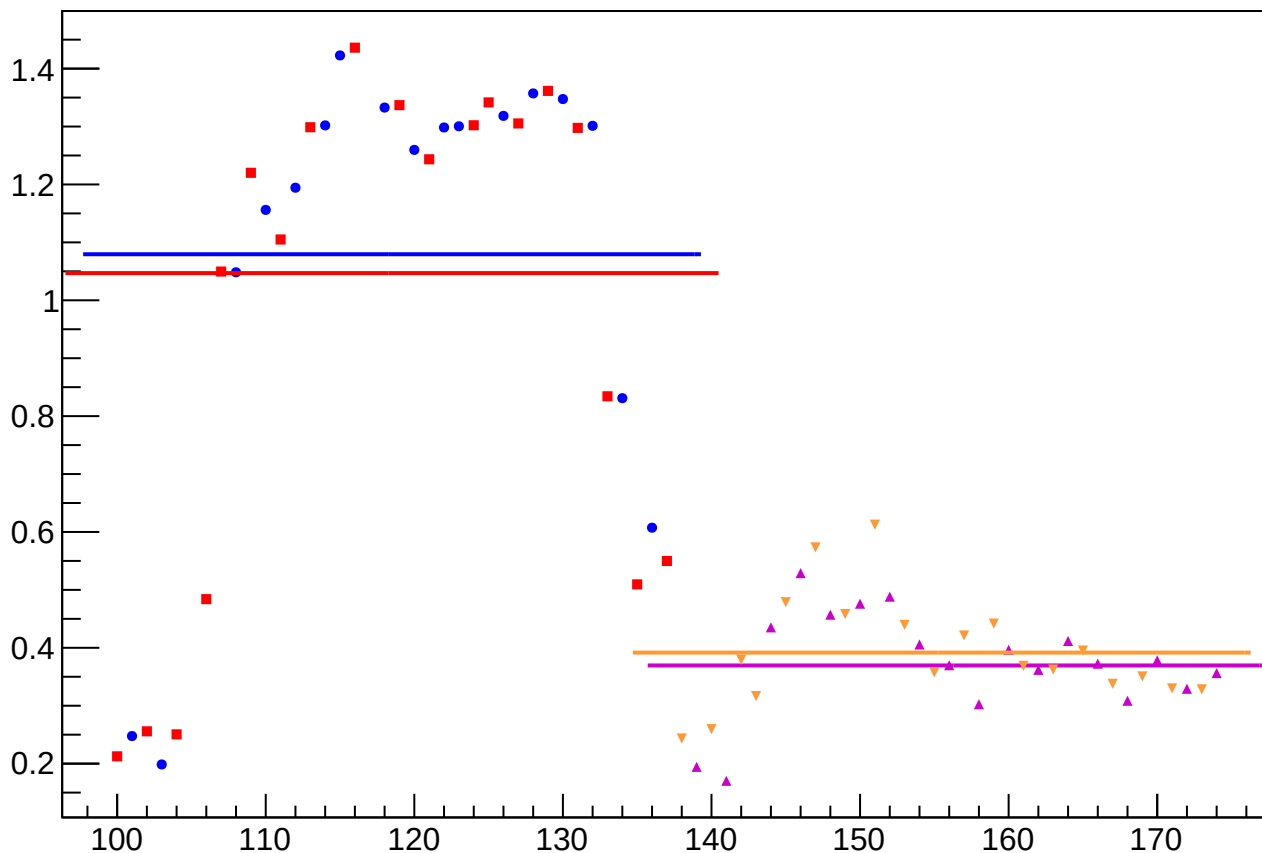
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :605068.4/34

Out: 0.002+/-0.000 χ^2/NDF :665974.4/37

All: 0.002+/-0.000 χ^2/NDF : 1272415.1/72

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.392 $\pm$ 0.000 χ^2 /NDF:1374760453.1/18

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.370 $\pm$ 0.000 χ^2 /NDF:1106335655.7/17

Left: 0.381 $\pm$ 0.000 χ^2 /NDF: 2519697469.6/36

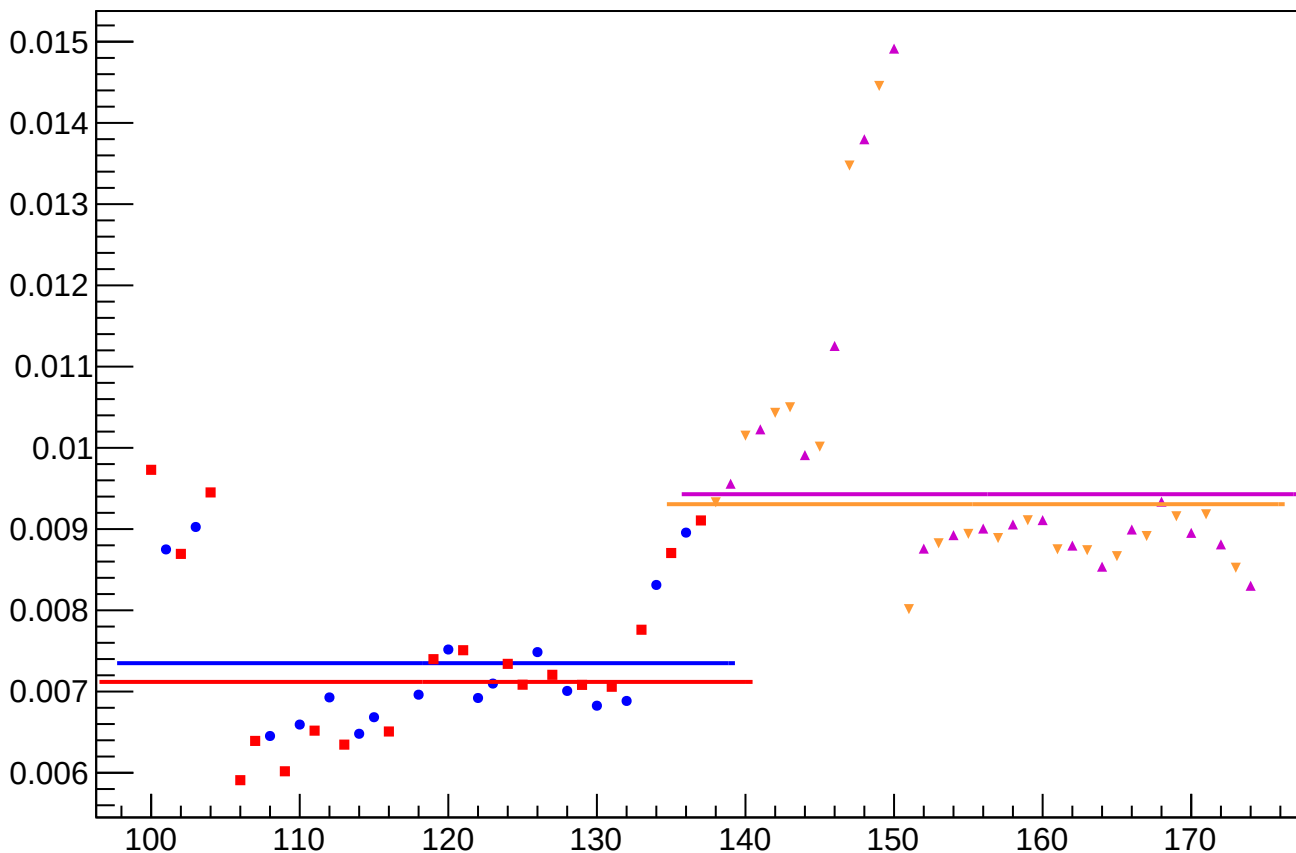
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.685 $\pm$ 0.000 χ^2 /NDF:52875937750.7/34

Out: 0.695 $\pm$ 0.000 χ^2 /NDF:52837057442.2/37

All: 0.690 $\pm$ 0.000 χ^2 /NDF: 105725382992.5

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 485005.1/18

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 535283.5/17

Left: 0.009+/-0.000 χ^2/NDF : 1022649.8/36

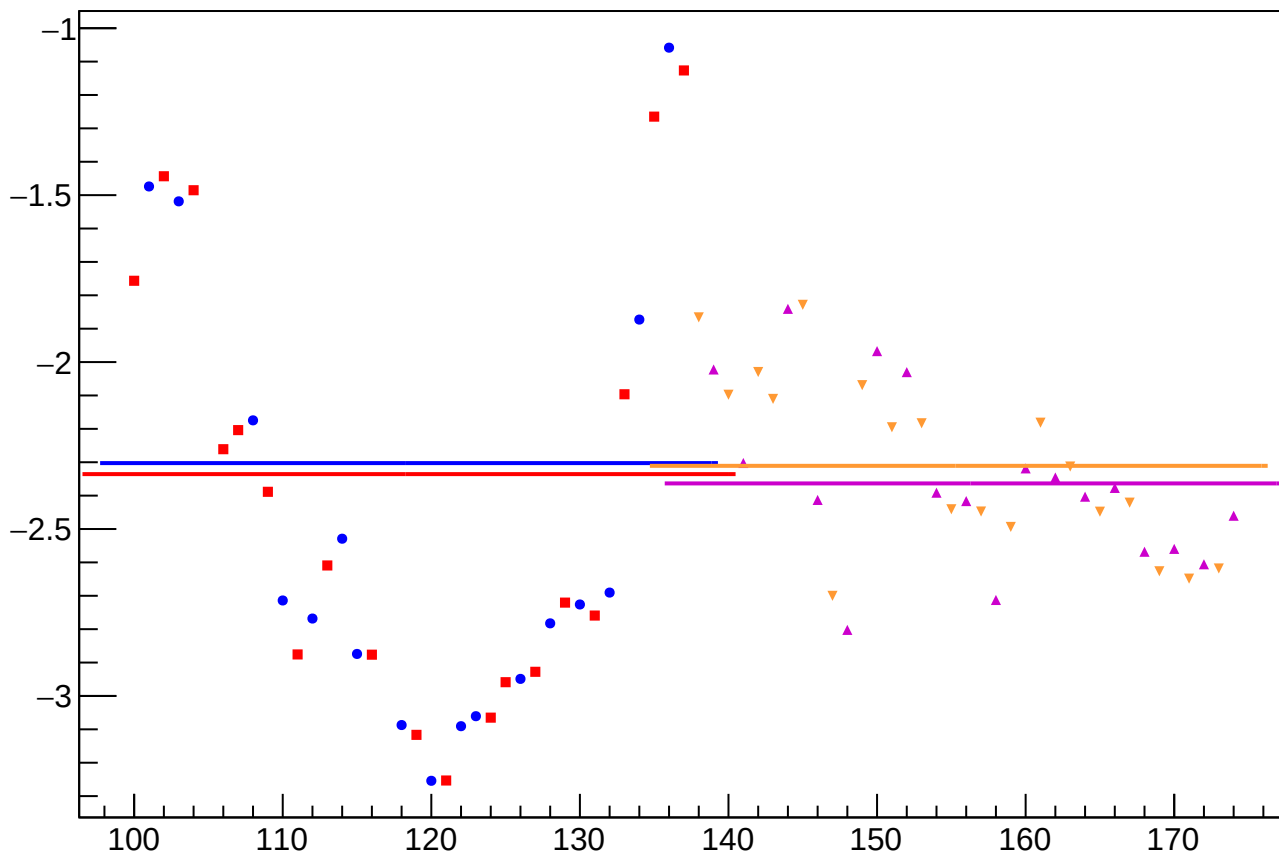
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1303714.5/34

Out: 0.008+/-0.000 χ^2/NDF : 1452686.7/37

All: 0.008+/-0.000 χ^2/NDF : 2768902.2/72

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.311+/-0.000 χ^2/NDF : 11627202295.6/18

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.363+/-0.000 χ^2/NDF : 10633586135.6/17

Left: -2.337+/-0.000 χ^2/NDF : 22520183250.7/36

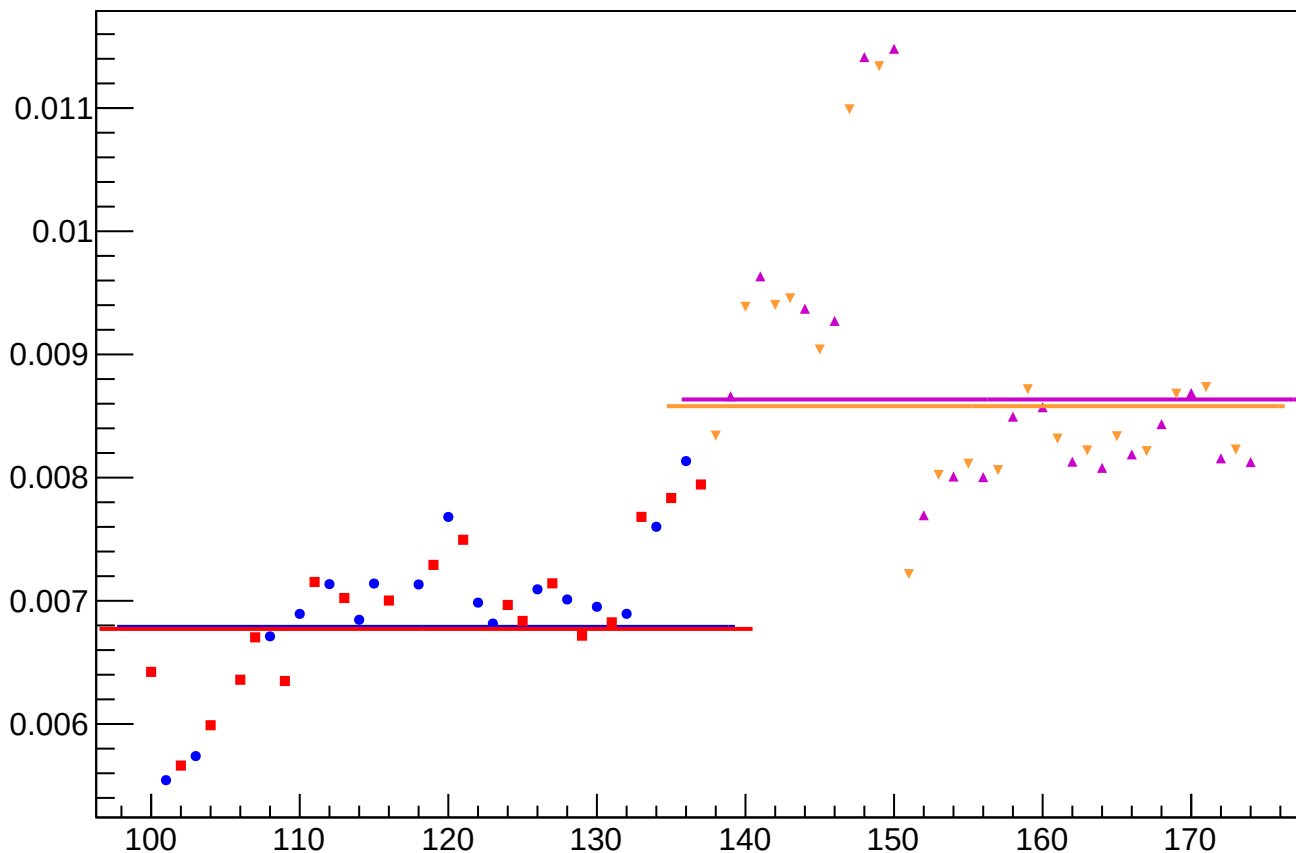
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.337+/-0.000 χ^2/NDF : 84688859326.0/34

Out: -2.322+/-0.000 χ^2/NDF : 76178695809.6/37

All: -2.329+/-0.000 χ^2/NDF : 160904582416.9

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 293087.8/18

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 309031.4/17

Left: 0.009+/-0.000 χ^2/NDF : 602672.2/36

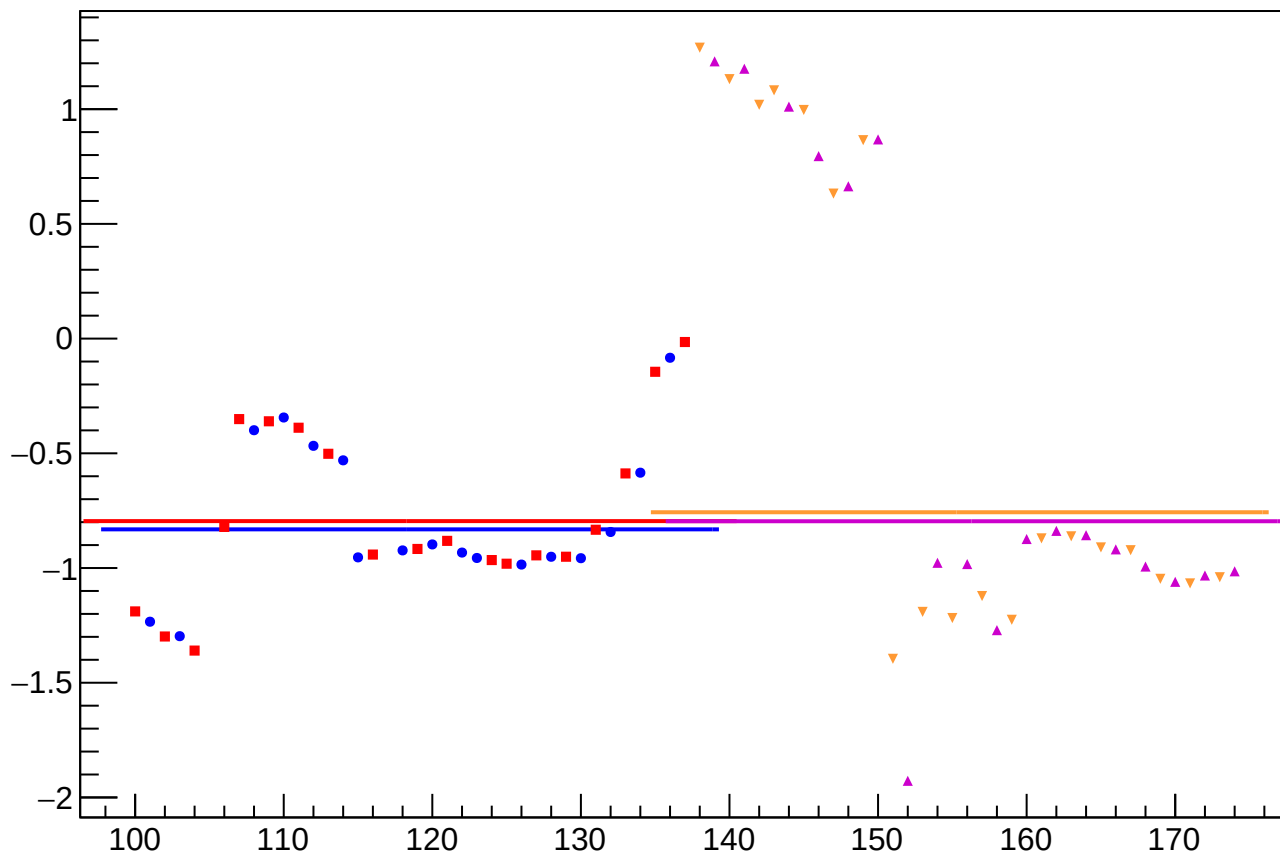
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1025186.7/34

Out: 0.008+/-0.000 χ^2/NDF : 972507.0/37

All: 0.008+/-0.000 χ^2/NDF : 1998634.5/72

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.777+/-0.000

χ^2/NDF : 240747993746.1/36

Left Out: -0.757+/-0.000

χ^2/NDF : 117231638392.8/18

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.804+/-0.000

χ^2/NDF : 130105950550.2/34

Out: -0.766+/-0.000

χ^2/NDF : 125122284056.0/37

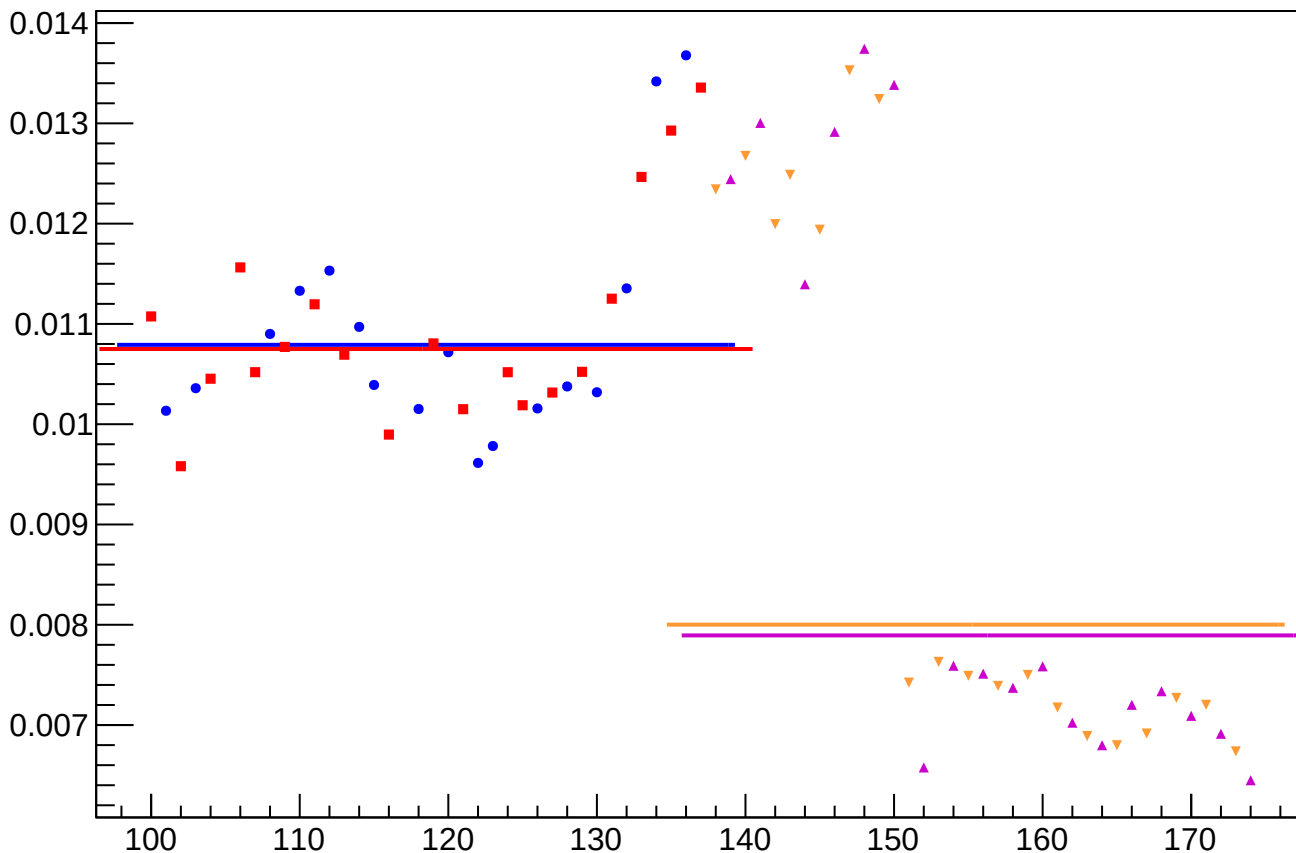
Left In: -0.796+/-0.000

χ^2/NDF : 123358425559.3/17

All: -0.785+/-0.000

χ^2/NDF : 255419536649.4

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1572802.0/18

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1672965.7/17

Left: 0.008+/-0.000 χ^2/NDF : 3248142.0/36

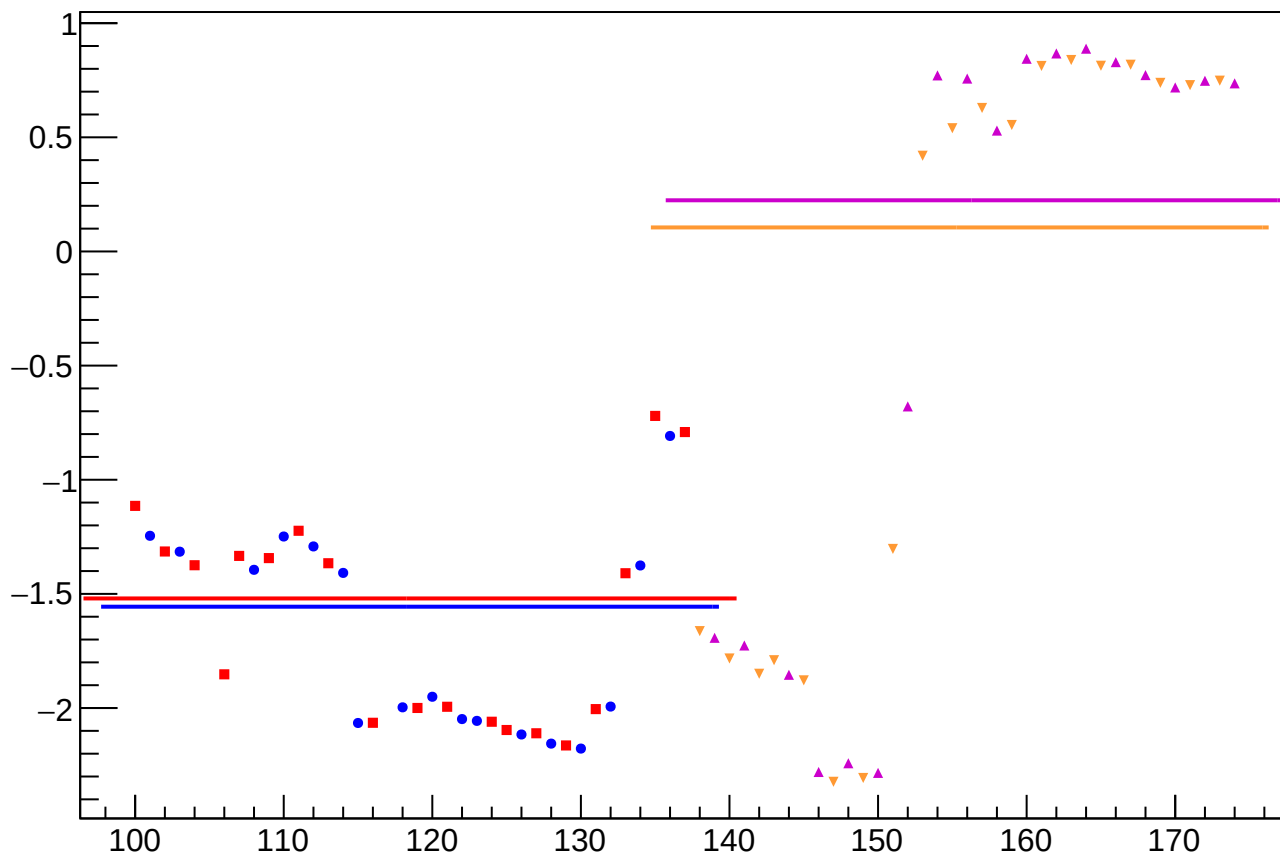
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2542416.0/34

Out: 0.009+/-0.000 χ^2/NDF :2361168.4/37

All: 0.009+/-0.000 χ^2/NDF : 4906454.9/72

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.105+/-0.000 χ^2/NDF : 2305964016286.9/18

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.224+/-0.000 χ^2/NDF : 2140462165395.8/17

Left: 0.165+/-0.000 χ^2/NDF : 4460085331074.5/36

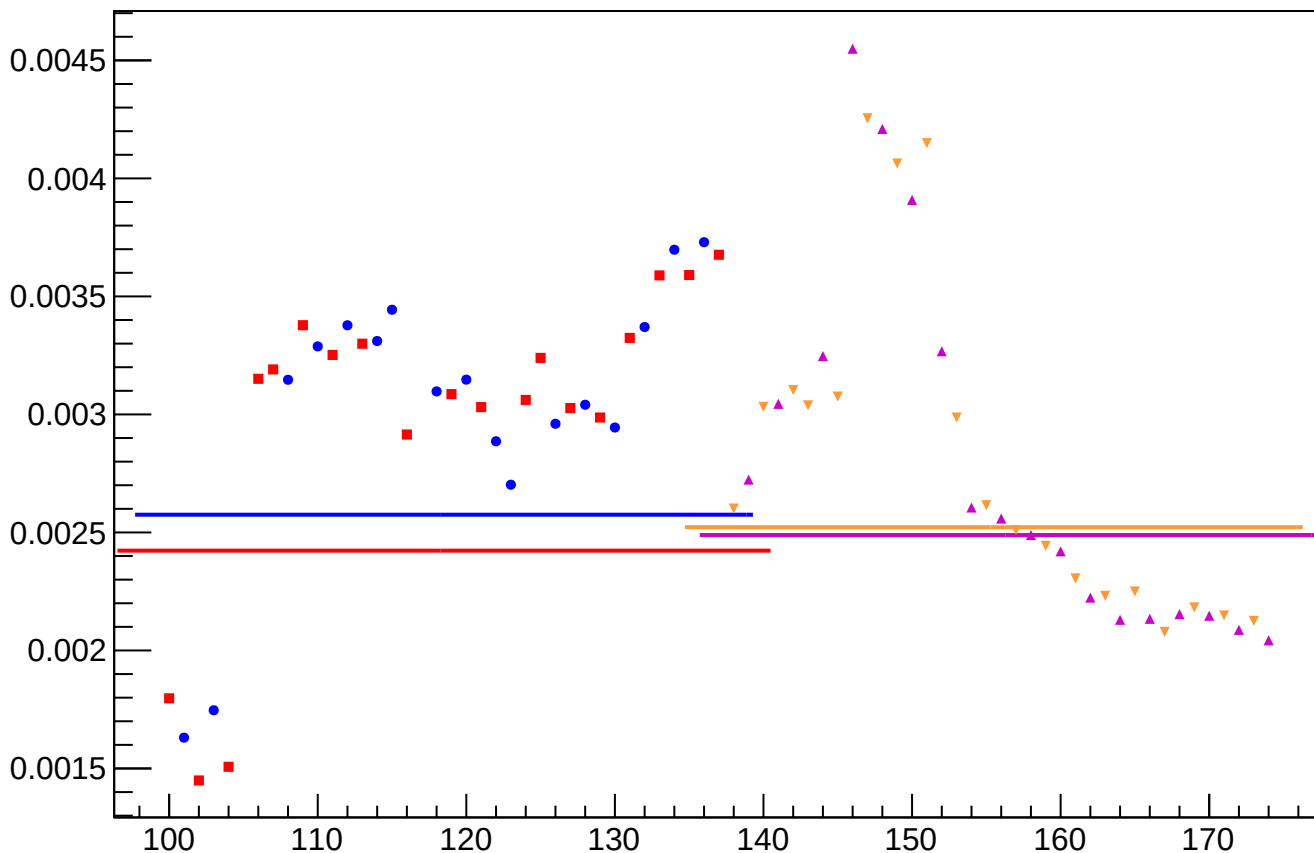
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.321+/-0.000 χ^2/NDF : 4171487670135.1/34

Out: -0.436+/-0.000 χ^2/NDF : 4145302691844.6/37

All: -0.380+/-0.000 χ^2/NDF : 8335603074589

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.003+/-0.000 χ^2/NDF :988729.7/18

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.002+/-0.000 χ^2/NDF :1113445.2/17

Left: 0.003+/-0.000 χ^2/NDF : 2104309.4/36

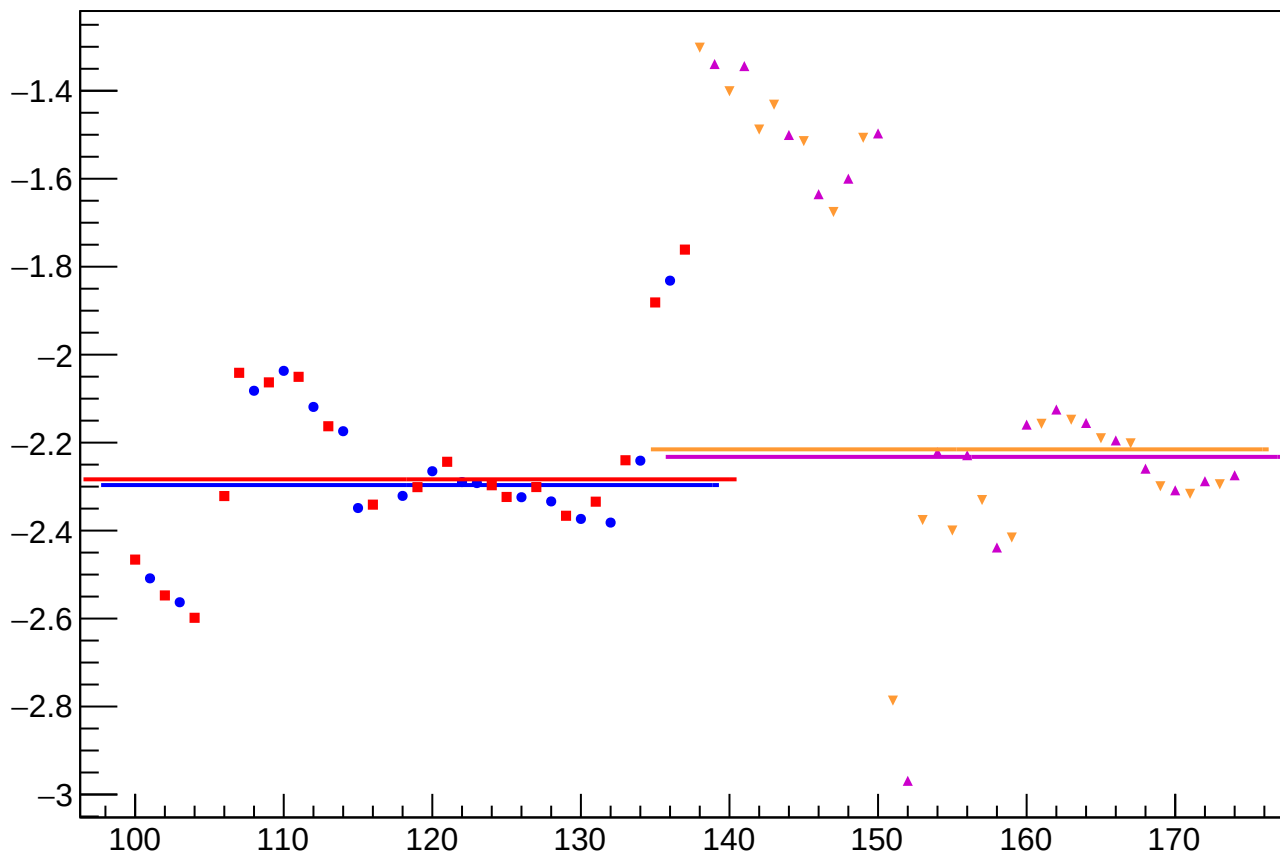
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF :2136060.4/34

Out: 0.002+/-0.000 χ^2/NDF :2491584.1/37

All: 0.003+/-0.000 χ^2/NDF : 4629605.6/72

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5782980938.4/16

Left: -2.224+/-0.000

χ^2/NDF : 119362512902.9/36

Left Out: -2.215+/-0.000

χ^2/NDF : 52340249189.0/18

Right: -2.290+/-0.000

χ^2/NDF : 12344935761.7/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6548716896.9/18

In: -2.246+/-0.000

χ^2/NDF : 73213036102.7/34

Out: -2.231+/-0.000

χ^2/NDF : 59463596009.4/37

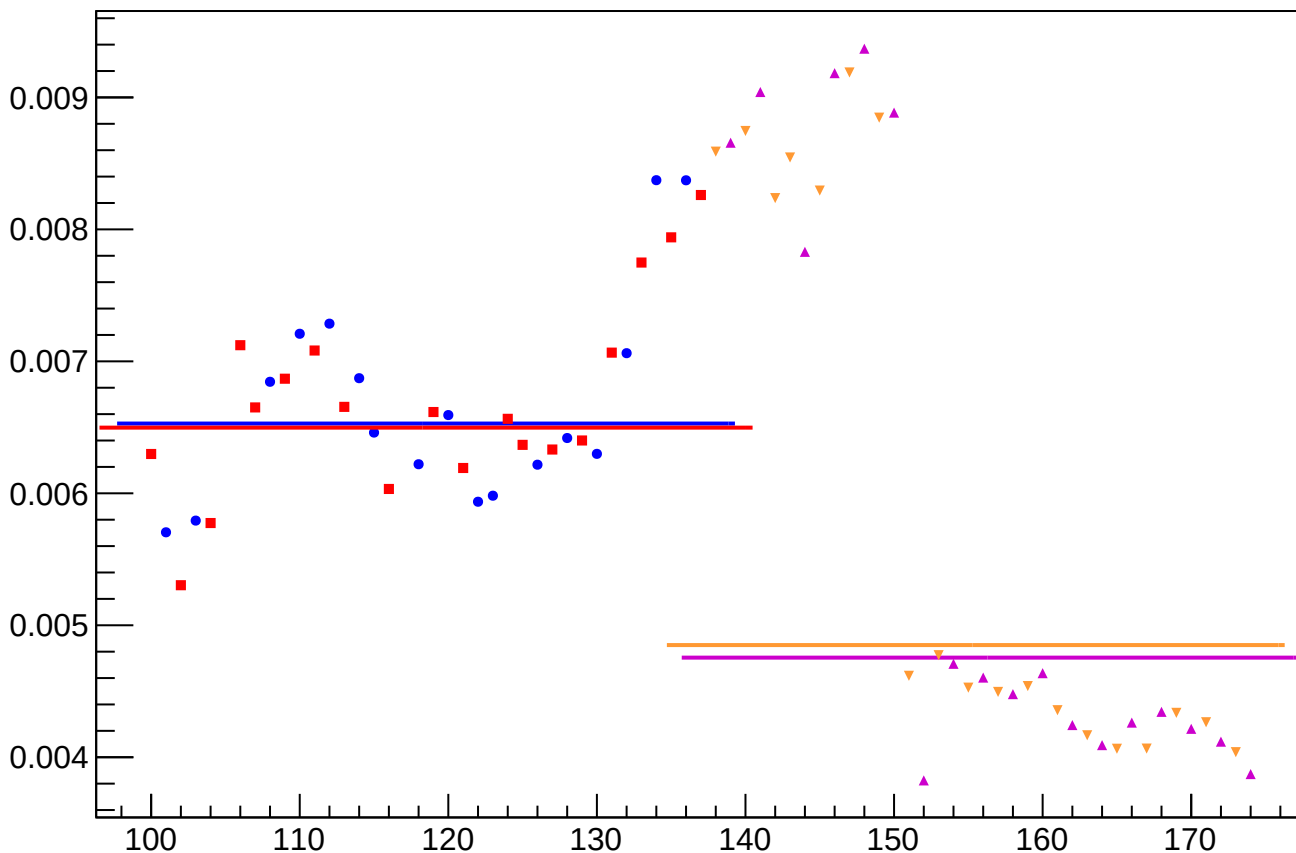
Left In: -2.232+/-0.000

χ^2/NDF : 66943025270.1/17

All: -2.239+/-0.000

χ^2/NDF : 132758986583.3

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF :2145296.1/18

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF :2273701.2/17

Left: 0.005+/-0.000 χ^2/NDF : 4423891.4/36

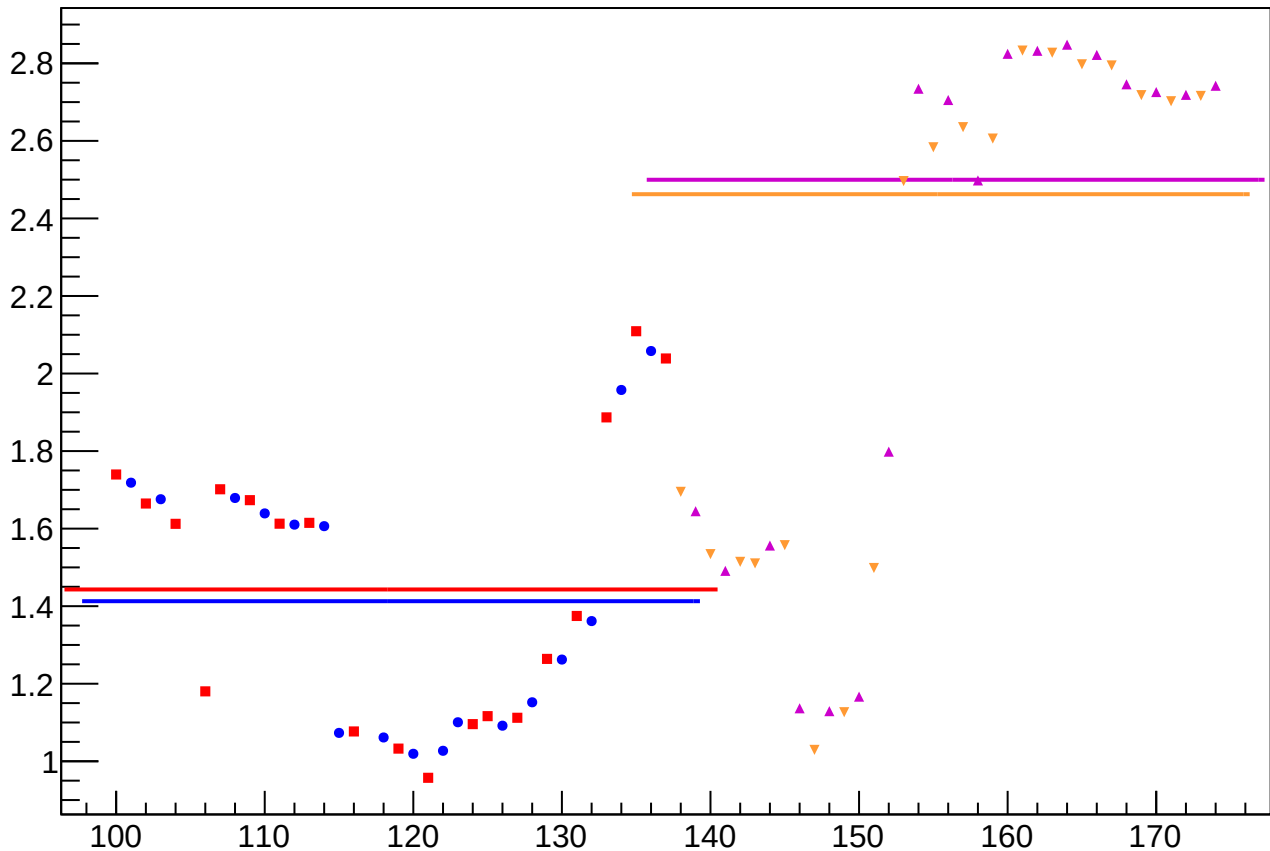
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :3196719.5/34

Out: 0.005+/-0.000 χ^2/NDF :2980827.5/37

All: 0.005+/-0.000 χ^2/NDF : 6182984.0/72

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.462+/-0.000 χ^2/NDF : 240074153838.5/18

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.500+/-0.000 χ^2/NDF : 239992121486.6/17

Left: 2.481+/-0.000 χ^2/NDF : 480744904972.4/36

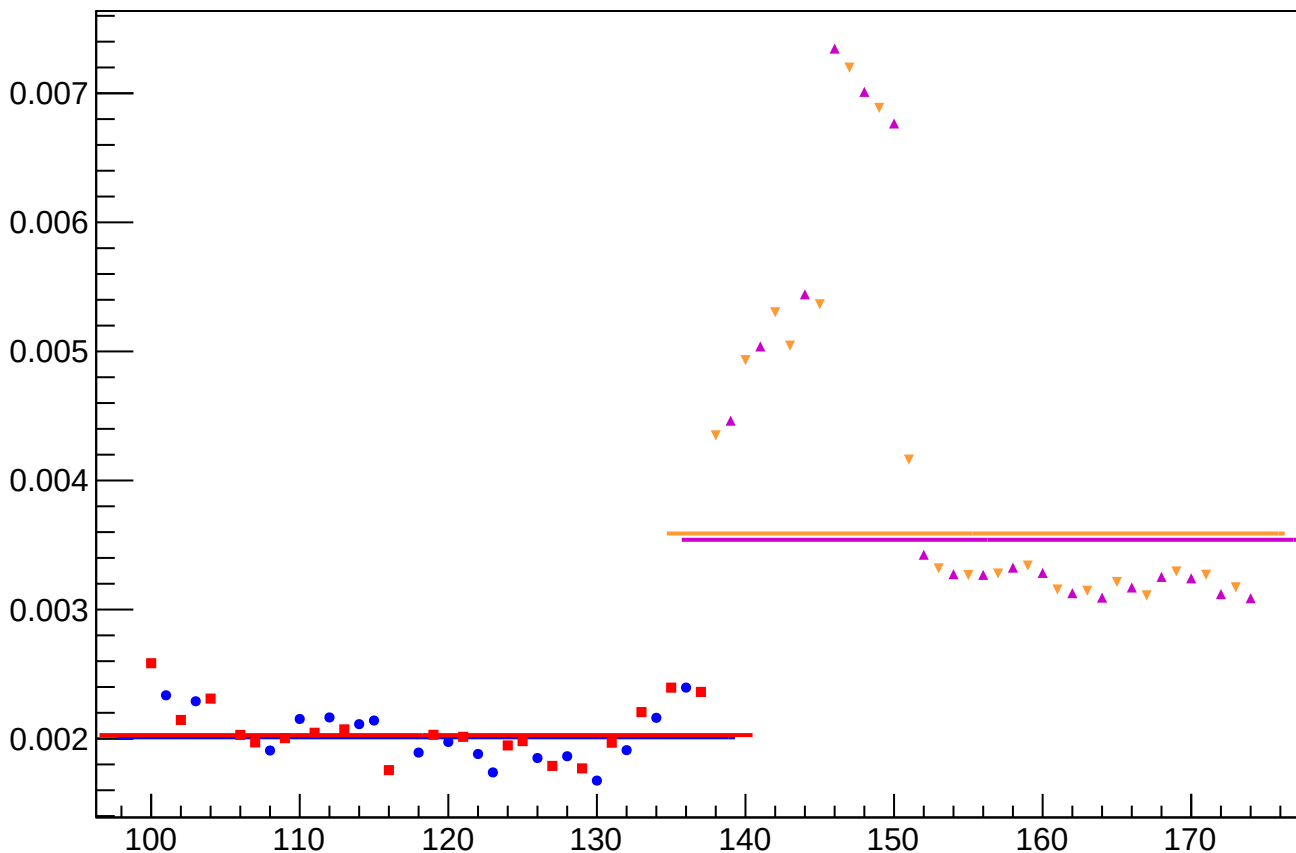
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.837+/-0.000 χ^2/NDF : 1117130170917.3/34

Out: 1.833+/-0.000 χ^2/NDF : 1041472318095.4/37

All: 1.835+/-0.000 χ^2/NDF : 2158621459413.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :1321123.7/18

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1531806.2/17

Left: 0.004+/-0.000 χ^2/NDF : 2855255.8/36

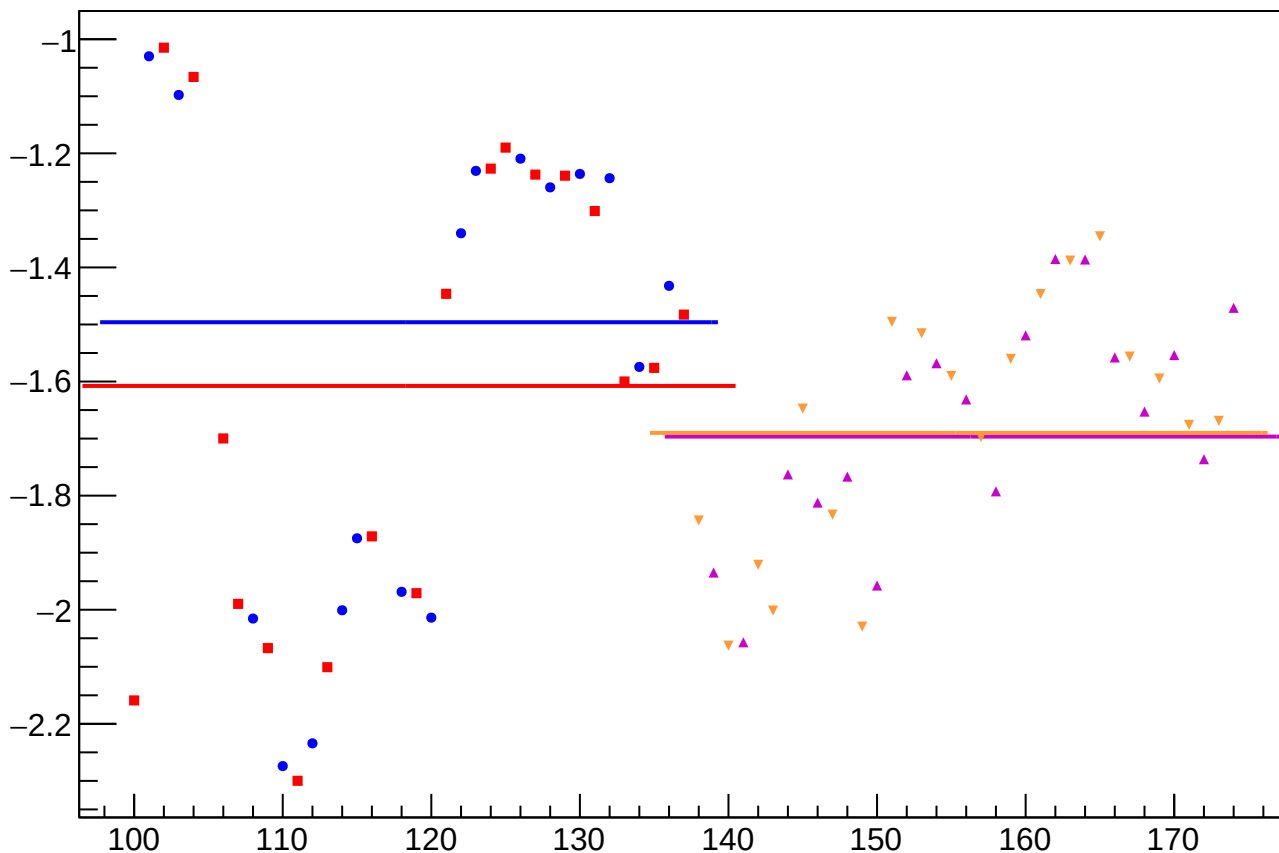
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4478349.7/34

Out: 0.003+/-0.000 χ^2/NDF :4375236.5/37

All: 0.003+/-0.000 χ^2/NDF : 8854360.1/72

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.690+/-0.000 χ^2/NDF : 15688037331.6/18

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.697+/-0.000 χ^2/NDF : 12219288349.3/17

Left: -1.693+/-0.000 χ^2/NDF : 27914613071.8/36

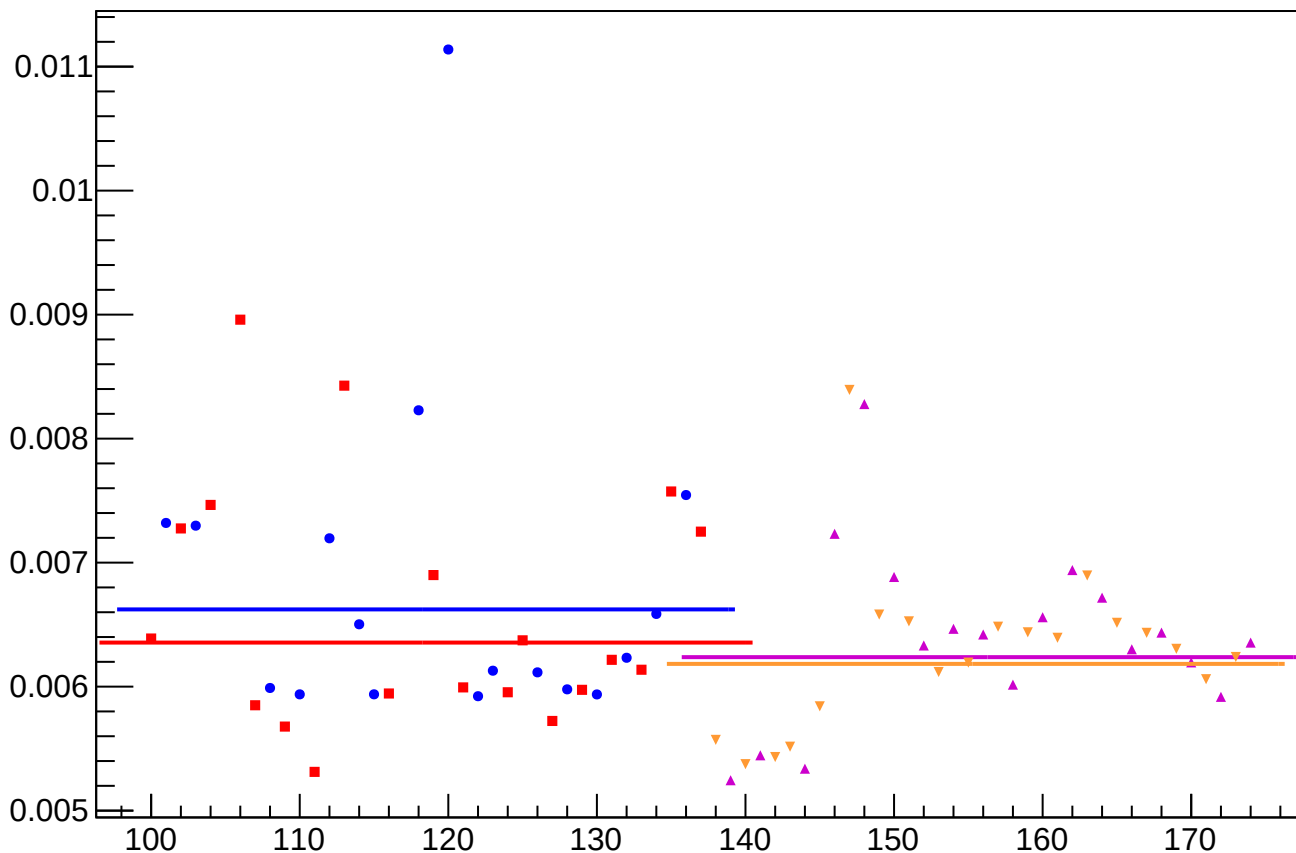
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.638+/-0.000 χ^2/NDF : 38693407888.6/34

Out: -1.664+/-0.000 χ^2/NDF : 44278530226.2/37

All: -1.651+/-0.000 χ^2/NDF : 83138202182.5/70

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :227206.5/18

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :293070.7/17

Left: 0.006+/-0.000 χ^2/NDF : 521291.0/36

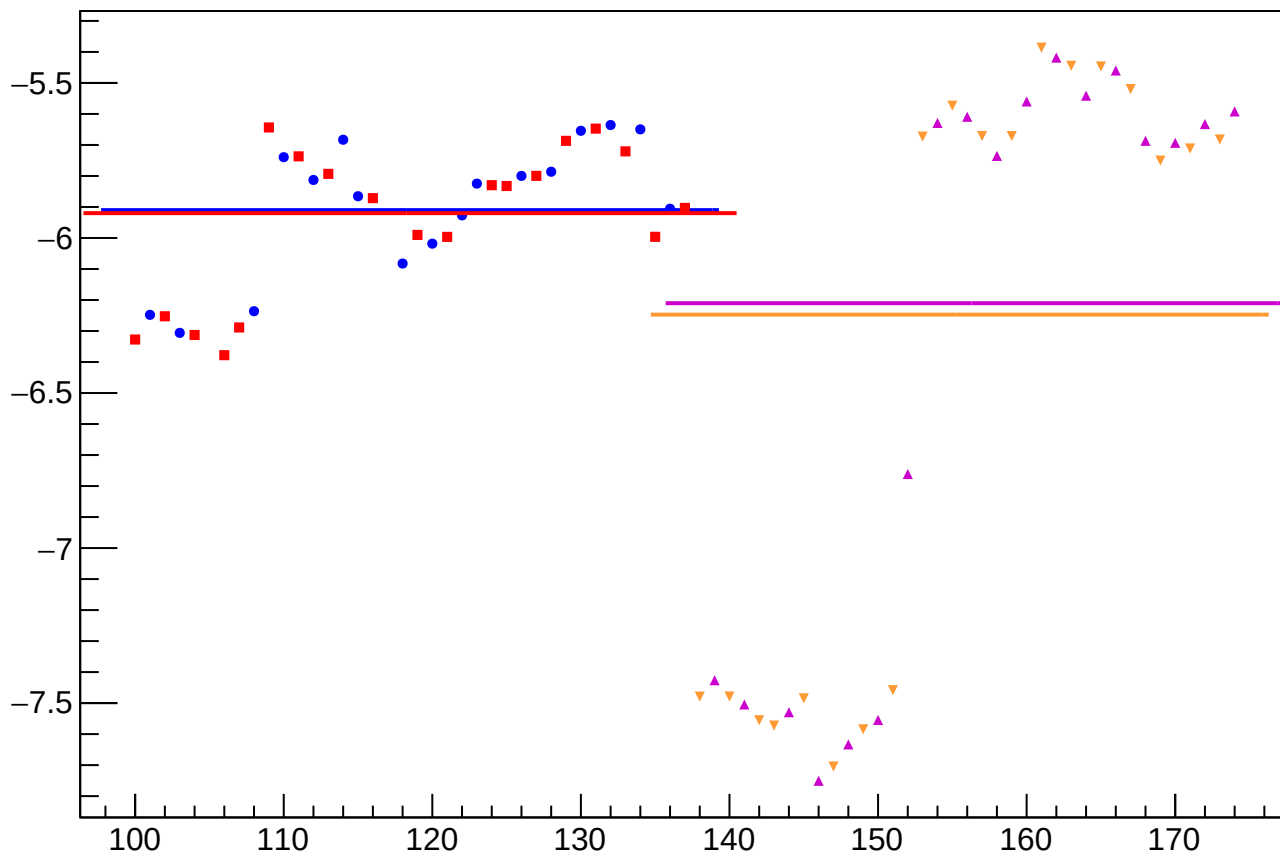
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :554834.9/34

Out: 0.006+/-0.000 χ^2/NDF :461646.6/37

All: 0.006+/-0.000 χ^2/NDF : 1022709.0/72

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.247+/-0.000 χ^2/NDF : 171810673297.0/18

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.210+/-0.000 χ^2/NDF : 150152911557.4/17

Left: -6.229+/-0.000 χ^2/NDF : 322099398544.6/36

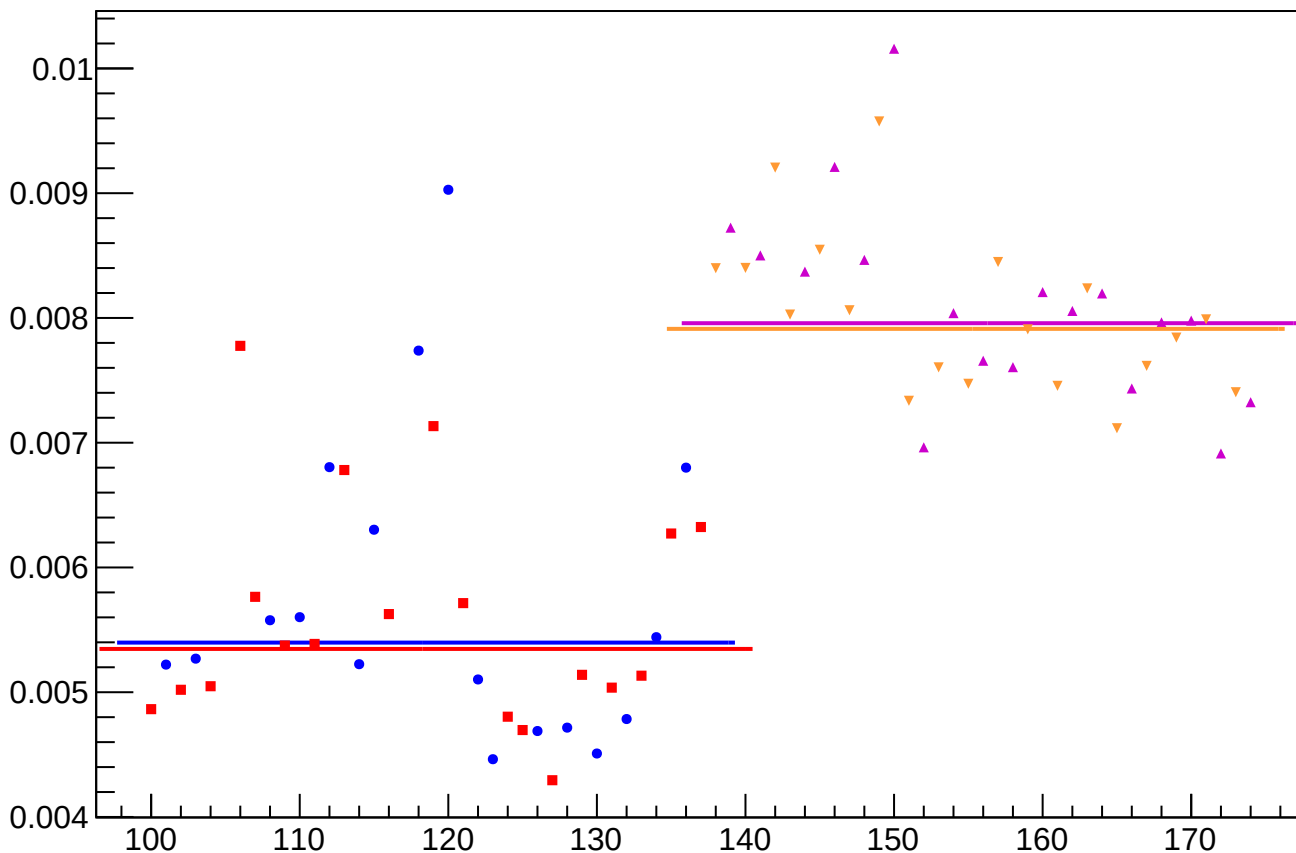
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.059+/-0.000 χ^2/NDF : 170337653083.5/34

Out: -6.075+/-0.000 χ^2/NDF : 195926646987.1/37

All: -6.067+/-0.000 χ^2/NDF : 366322147404.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :123121.2/18

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :201127.0/17

Left: 0.008+/-0.000 χ^2/NDF : 324660.8/36

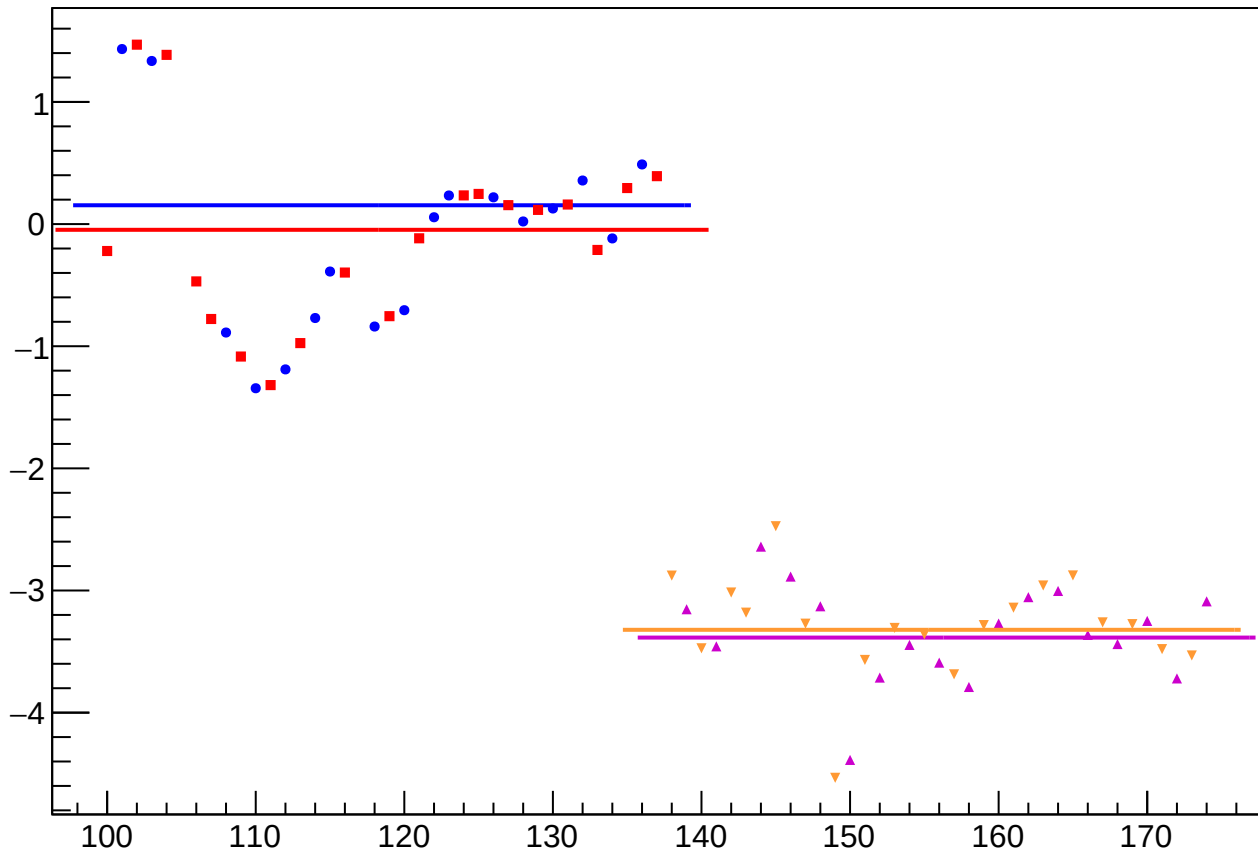
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1887000.4/34

Out: 0.007+/-0.000 χ^2/NDF :1765050.4/37

All: 0.007+/-0.000 χ^2/NDF : 3656016.9/72

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.322+/-0.000 χ^2/NDF : 8216414646.5/18

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.385+/-0.000 χ^2/NDF : 7615494533.6/17

Left: -3.353+/-0.000 χ^2/NDF : 15941322425.5/36

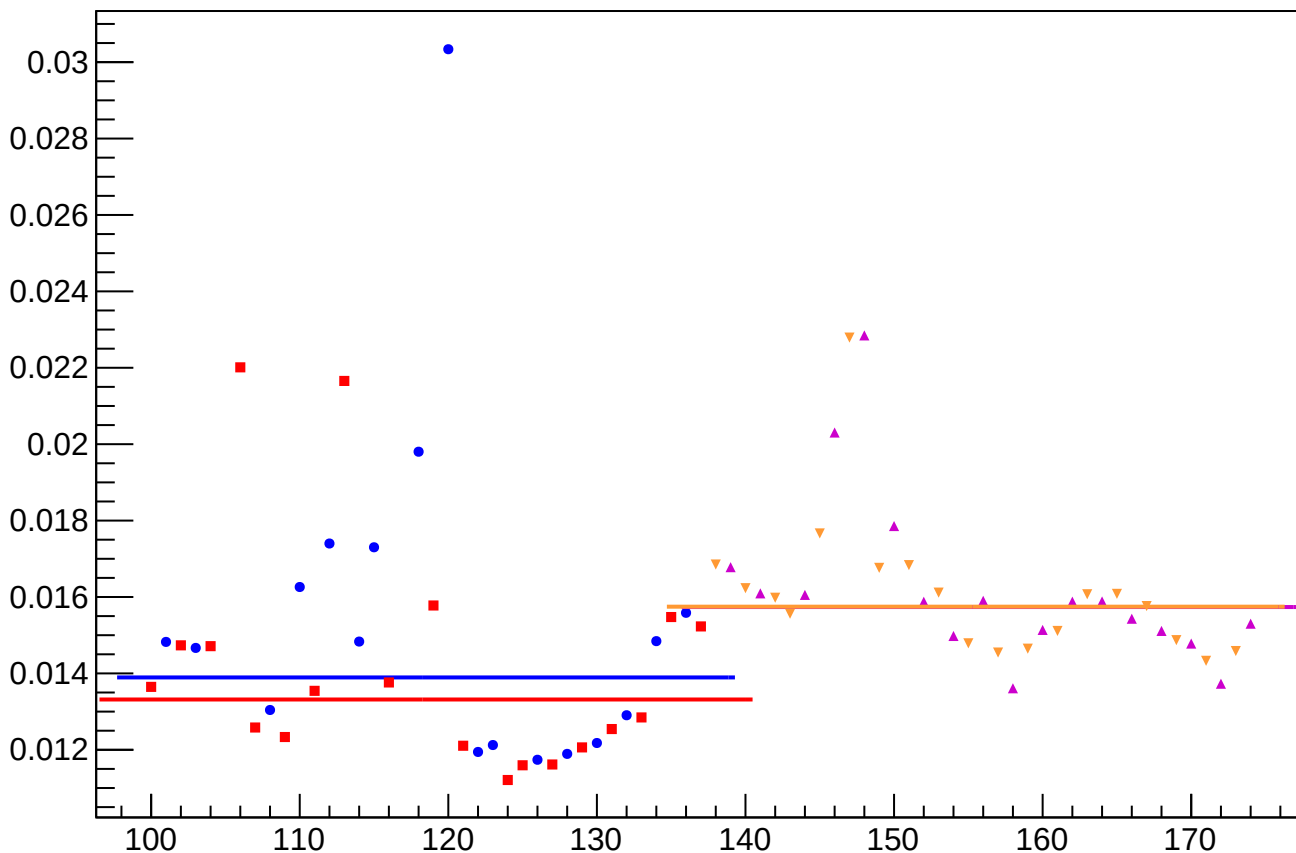
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.094+/-0.000 χ^2/NDF : 268690602740.9/34

Out: -2.012+/-0.000 χ^2/NDF : 263783655136.6/37

All: -2.051+/-0.000 χ^2/NDF : 532773660228.7

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 400569.4/16

Left Out: 0.016 $\pm$ 0.000 χ^2 /NDF:231415.8/18

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 291358.0/18

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:328007.7/17

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 559428.3/36

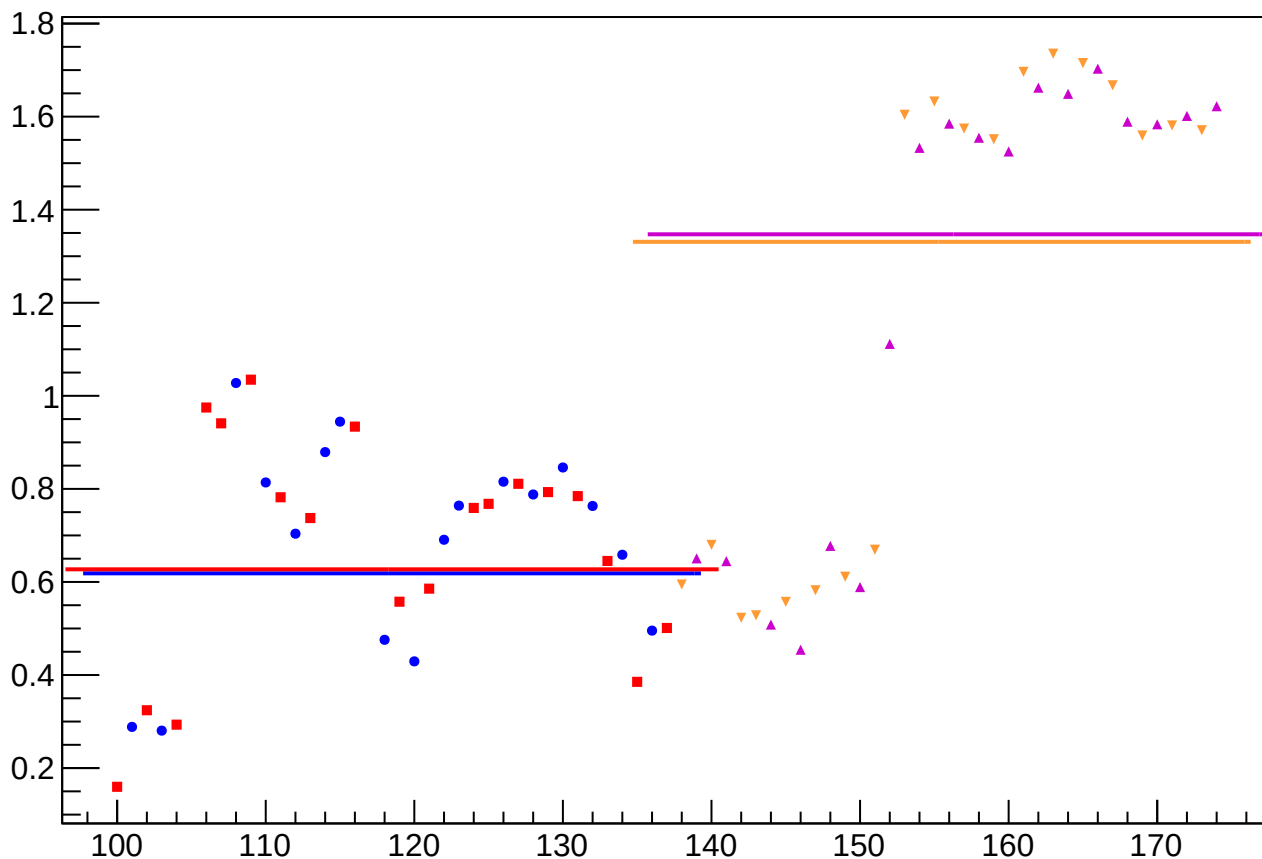
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 703029.7/35

In: 0.015 $\pm$ 0.000 χ^2 /NDF:860868.8/34

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:780722.5/37

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 1648962.4/72

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.331+/-0.000 χ^2/NDF : 70567392814.1/18

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.347+/-0.000 χ^2/NDF : 61889654860.8/17

Left: 1.339+/-0.000 χ^2/NDF : 132502547994.2/36

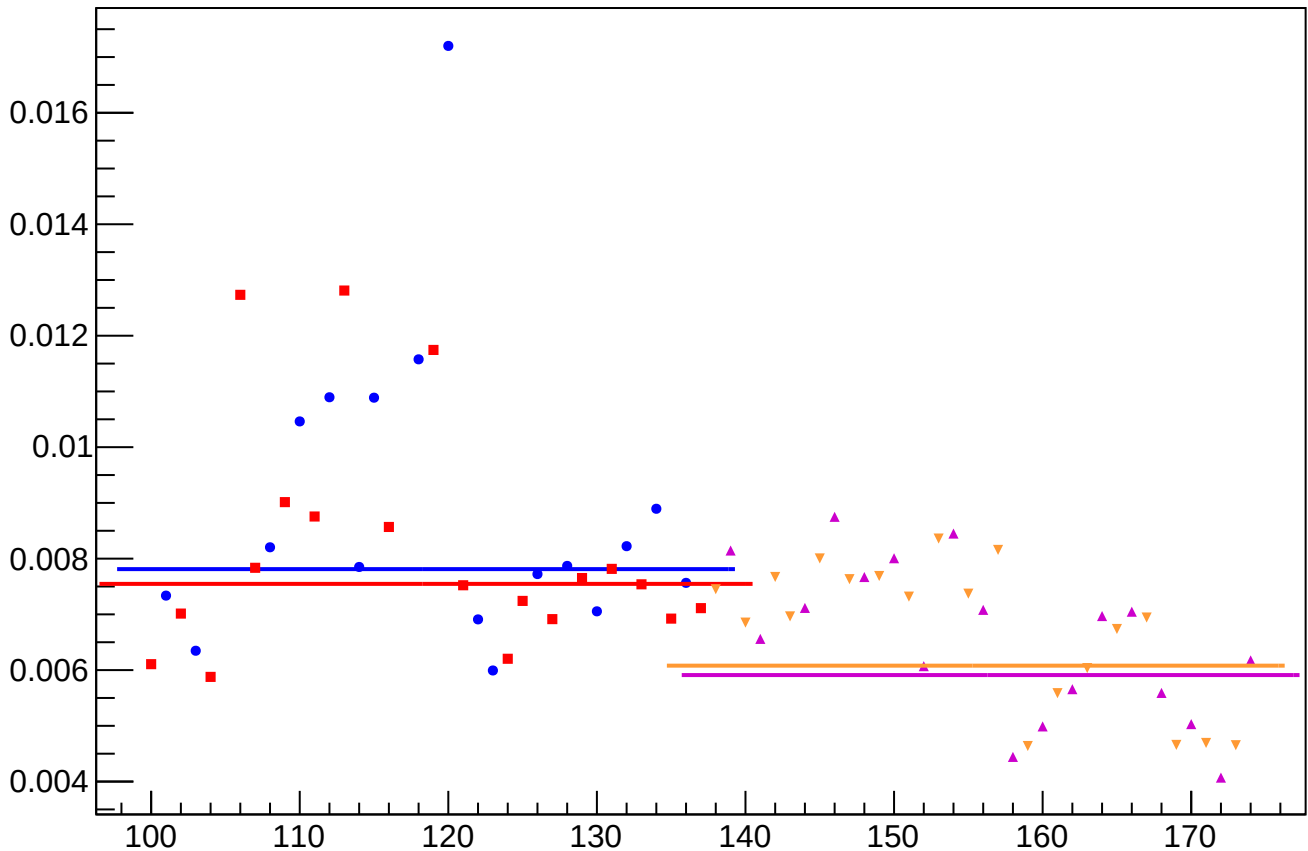
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.194+/-0.000 χ^2/NDF : 107273792783.8/34

Out: 1.160+/-0.000 χ^2/NDF : 117706560551.1/37

All: 1.177+/-0.000 χ^2/NDF : 225232227927.2

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1218402.2/18

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1296143.0/17

Left: 0.006+/-0.000 χ^2/NDF : 2524488.7/36

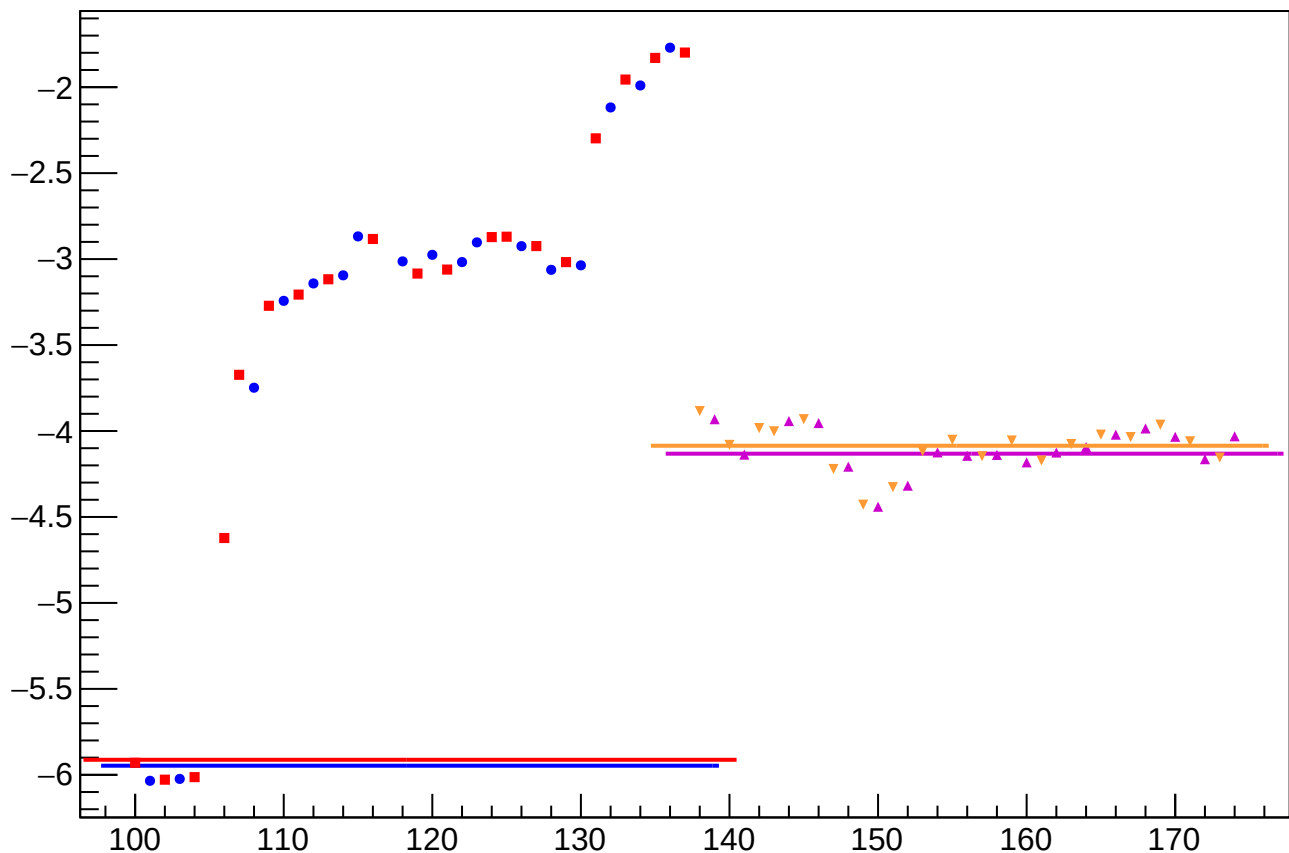
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2307086.7/34

Out: 0.006+/-0.000 χ^2/NDF :2014858.1/37

All: 0.006+/-0.000 χ^2/NDF : 4328933.9/72

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.086+/-0.000 χ^2/NDF : 34578154.1/18

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.132+/-0.000 χ^2/NDF : 25767140.2/17

Left: -4.110+/-0.000 χ^2/NDF : 62549832.0/36

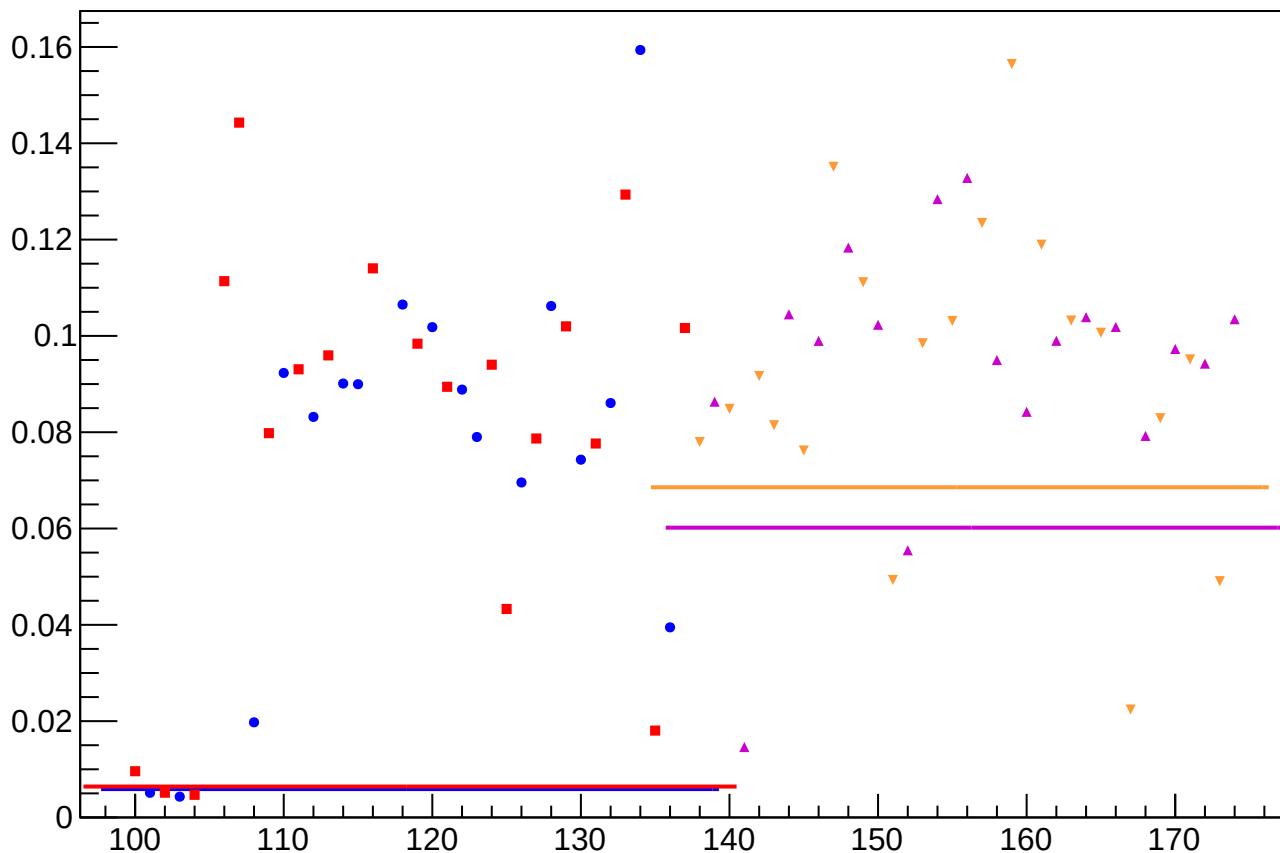
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.869+/-0.000 χ^2/NDF : 19894840223.8/34

Out: -5.822+/-0.000 χ^2/NDF : 20983464290.7/37

All: -5.848+/-0.000 χ^2/NDF : 40927909130.2/74

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.069+/-0.000 χ^2/NDF : 4714567.9/18

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.060+/-0.000 χ^2/NDF : 7151458.0/17

Left: 0.064+/-0.000 χ^2/NDF : 12010786.3/36

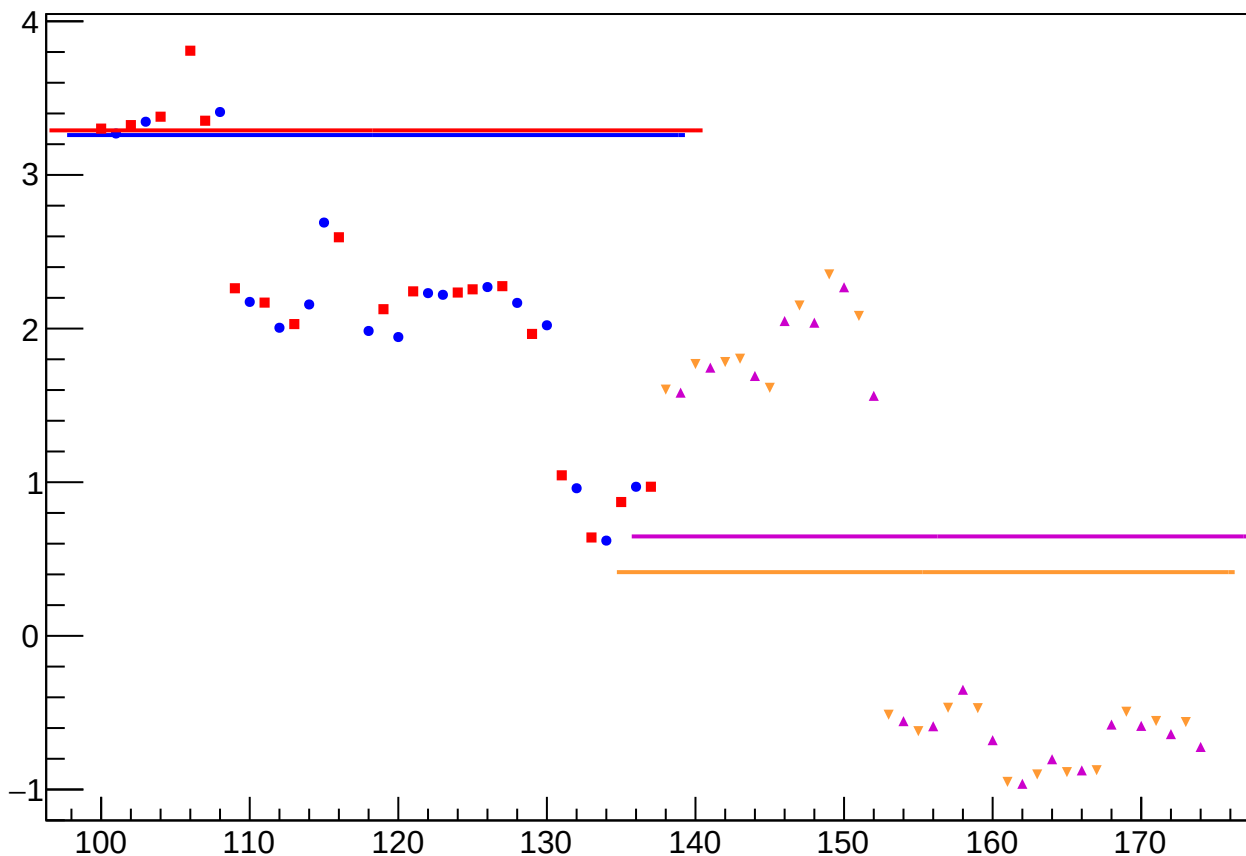
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 27080992.0/34

Out: 0.010+/-0.000 χ^2/NDF : 27863858.4/37

All: 0.009+/-0.000 χ^2/NDF : 55017760.8/72

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259 ± 0.000 $\chi^2/\text{NDF}: 2921931976.8/16$

Left Out: 0.415 ± 0.000 $\chi^2/\text{NDF}: 2841503873.7/18$

Right Out: 3.290 ± 0.000 $\chi^2/\text{NDF}: 3262231575.5/18$

Left In: 0.647 ± 0.000 $\chi^2/\text{NDF}: 2272266087.3/17$

Left: 0.525 ± 0.000 $\chi^2/\text{NDF}: 5156804142.5/36$

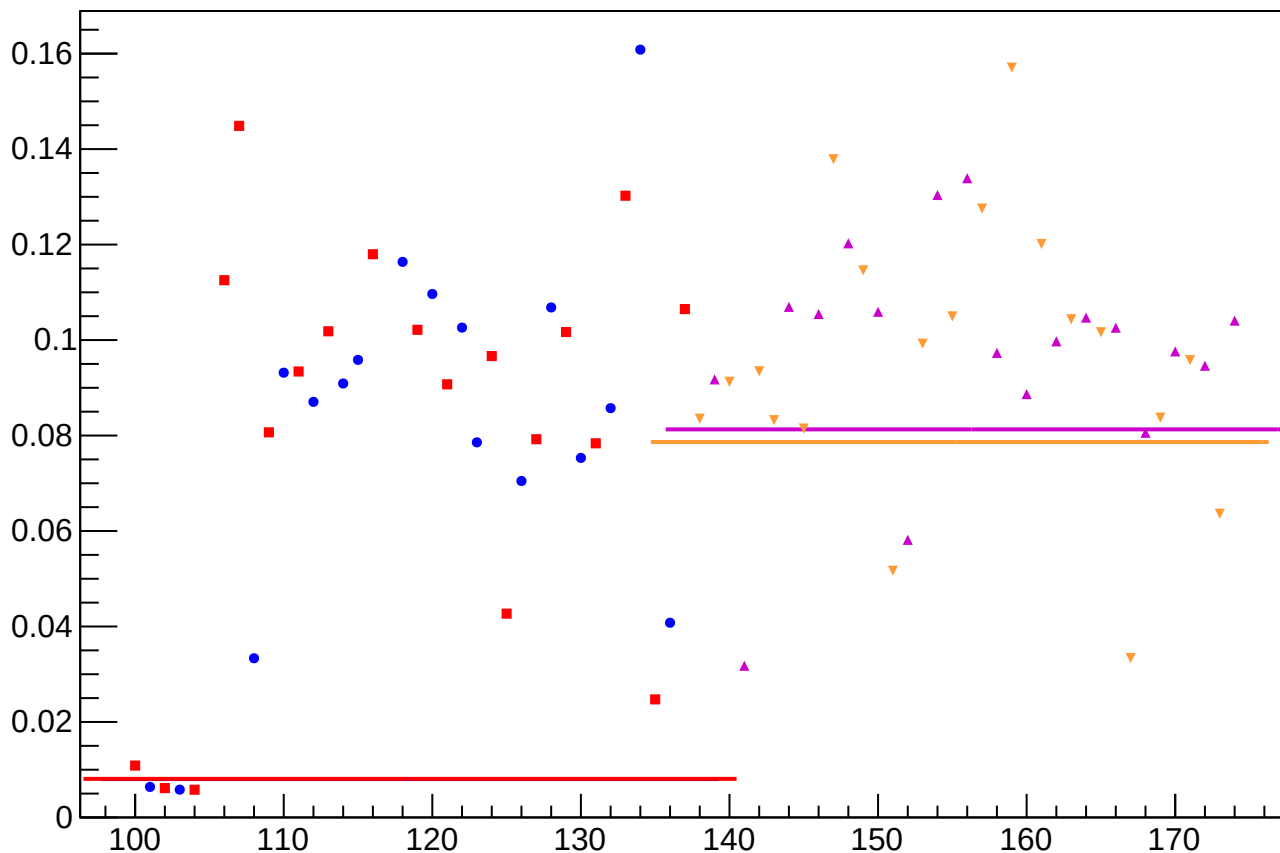
Right: 3.274 ± 0.000 $\chi^2/\text{NDF}: 6196998308.4/35$

In: 3.129 ± 0.000 $\chi^2/\text{NDF}: 15005702247.9/34$

Out: 3.118 ± 0.000 $\chi^2/\text{NDF}: 19168969704.4/37$

All: 3.124 ± 0.000 $\chi^2/\text{NDF}: 34176299838.0/71$

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 3061874.3/18

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.081 $\pm$ 0.000 χ^2 /NDF: 2901503.8/17

Left: 0.080 $\pm$ 0.000 χ^2 /NDF: 5974554.2/36

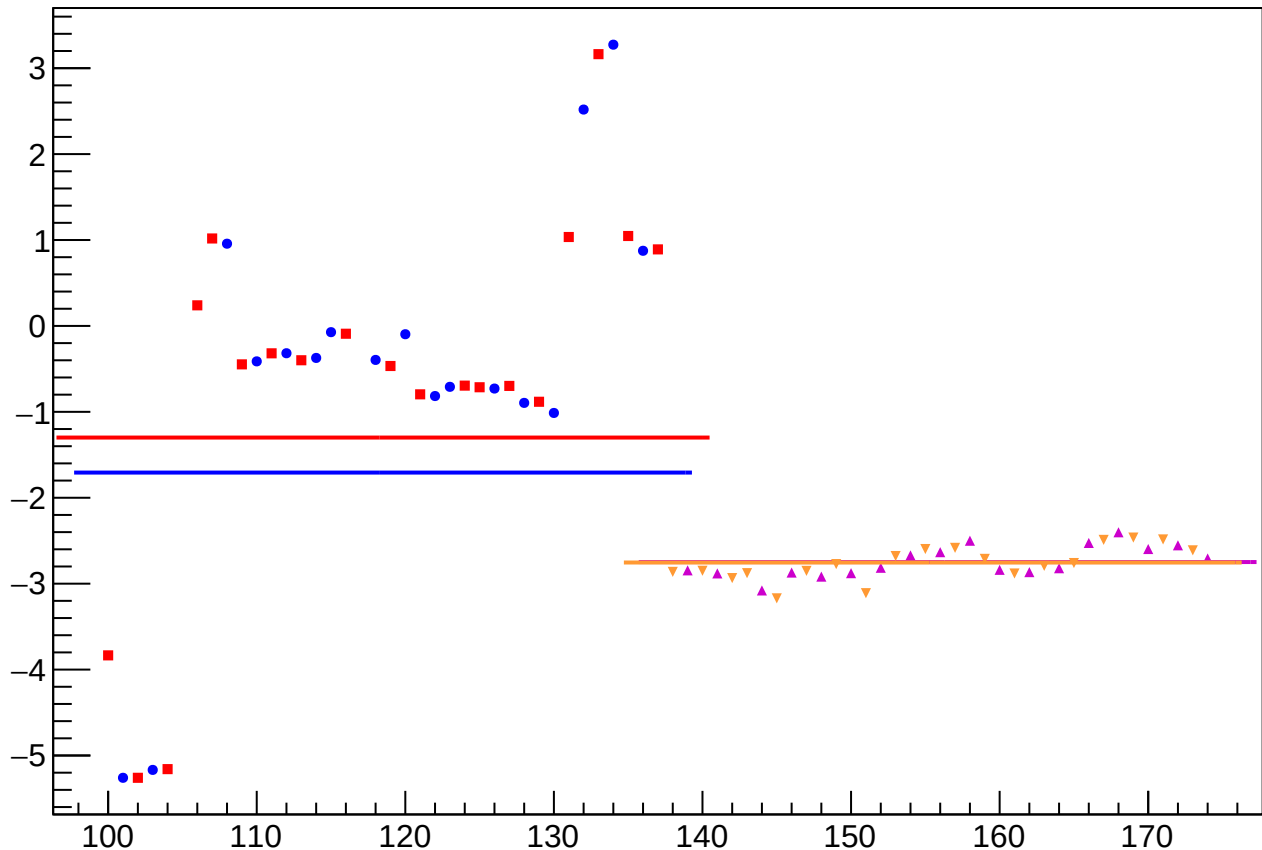
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 26073593.5/34

Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 27107478.2/37

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 53191405.3/72

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.754+/-0.000 χ^2/NDF : 8636415262.9/18

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.748+/-0.000 χ^2/NDF : 7036402071.8/17

Left: -2.751+/-0.000 χ^2/NDF : 15676018072.3/36

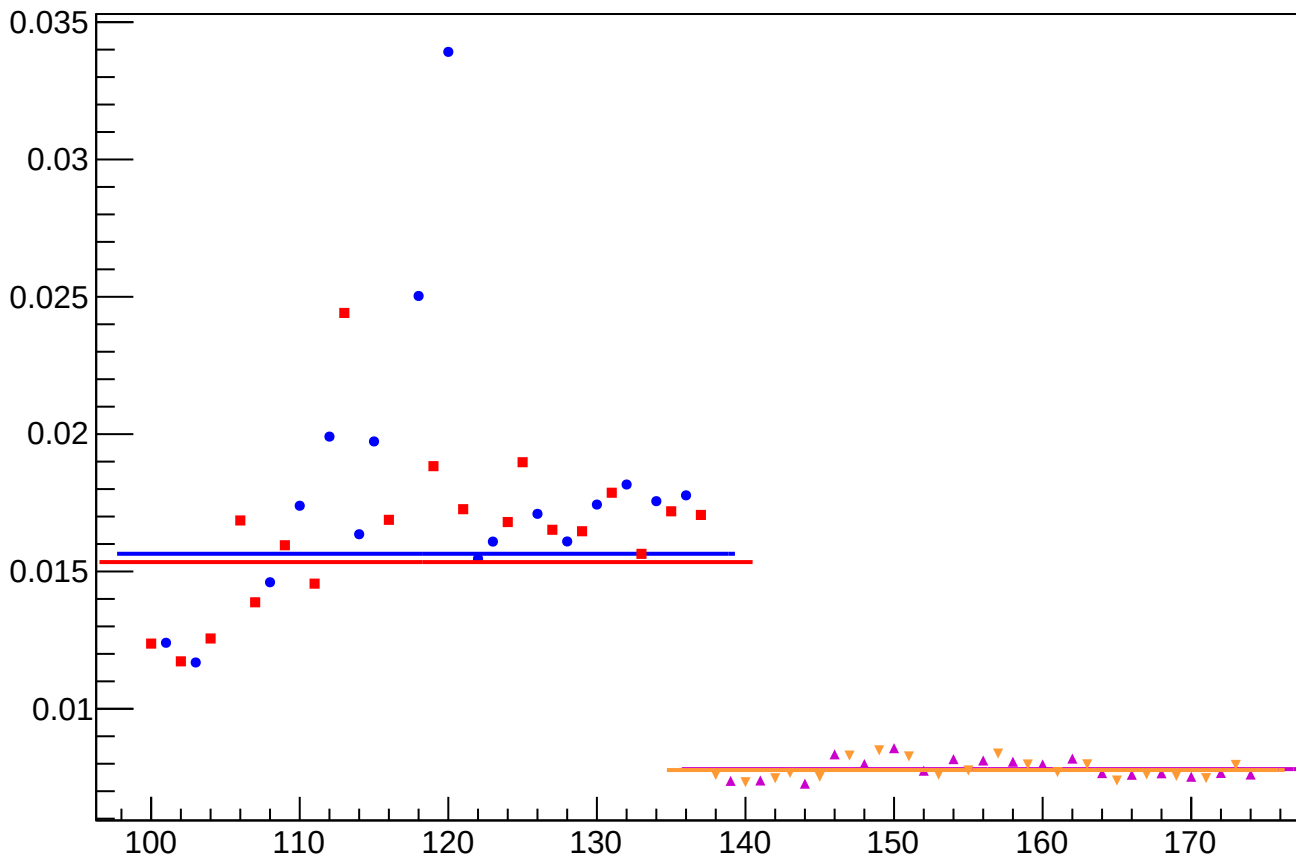
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.650+/-0.000 χ^2/NDF : 195654415598.9/34

Out: -2.601+/-0.000 χ^2/NDF : 236538220413.2/37

All: -2.625+/-0.000 χ^2/NDF : 432483568494.3

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015+/-0.000 χ^2/NDF : 50188.9/18

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 55207.4/17

Left: 0.008+/-0.000 χ^2/NDF : 105664.8/36

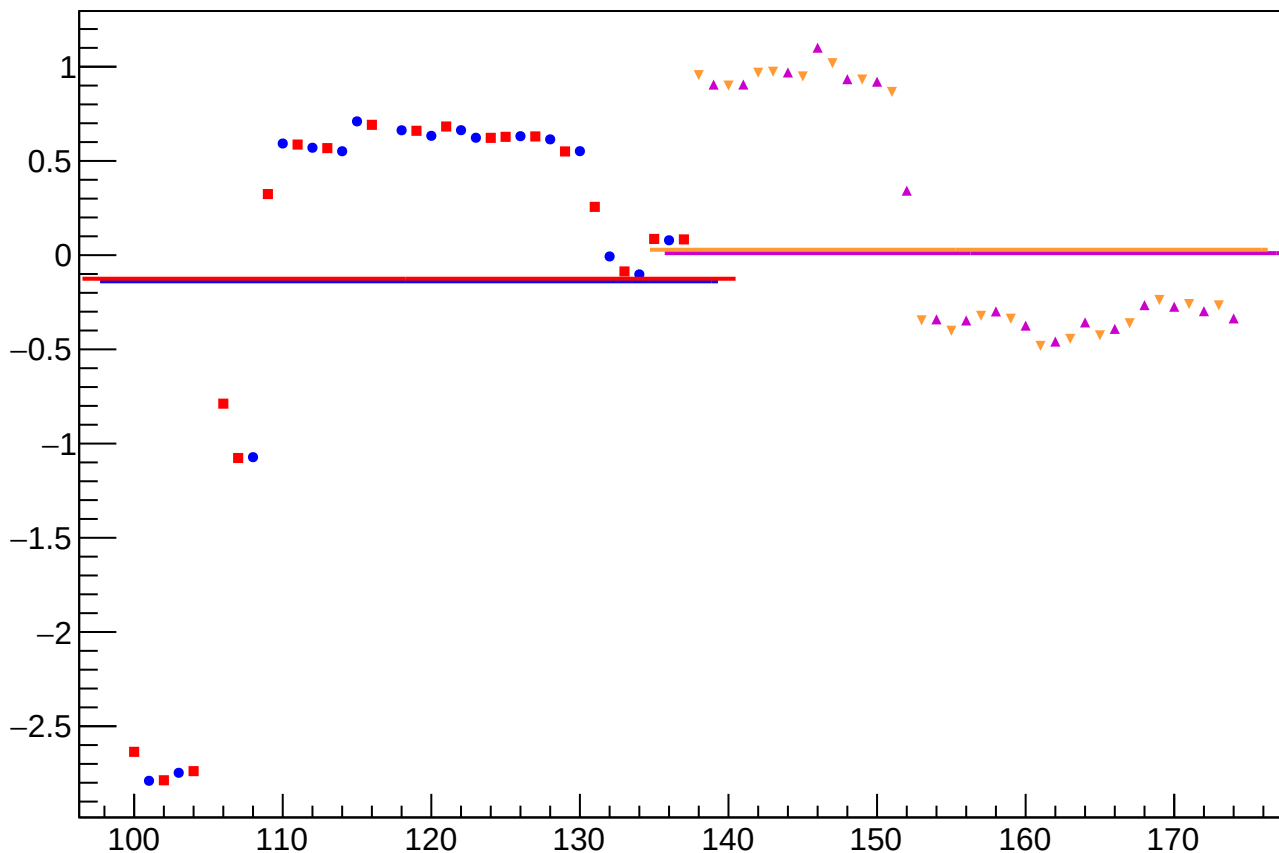
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3182651.0/34

Out: 0.009+/-0.000 χ^2/NDF : 3107013.7/37

All: 0.009+/-0.000 χ^2/NDF : 6289741.5/72

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139 ± 0.000 $\chi^2/\text{NDF}: 715049983856.2/16$

Left Out: 0.029 ± 0.000 $\chi^2/\text{NDF}: 127904493762.7/18$

Right Out: -0.125 ± 0.000 $\chi^2/\text{NDF}: 761496762534.7/18$

Left In: 0.011 ± 0.000 $\chi^2/\text{NDF}: 110372962973.2/17$

Left: 0.020 ± 0.000 $\chi^2/\text{NDF}: 238336457744.8/36$

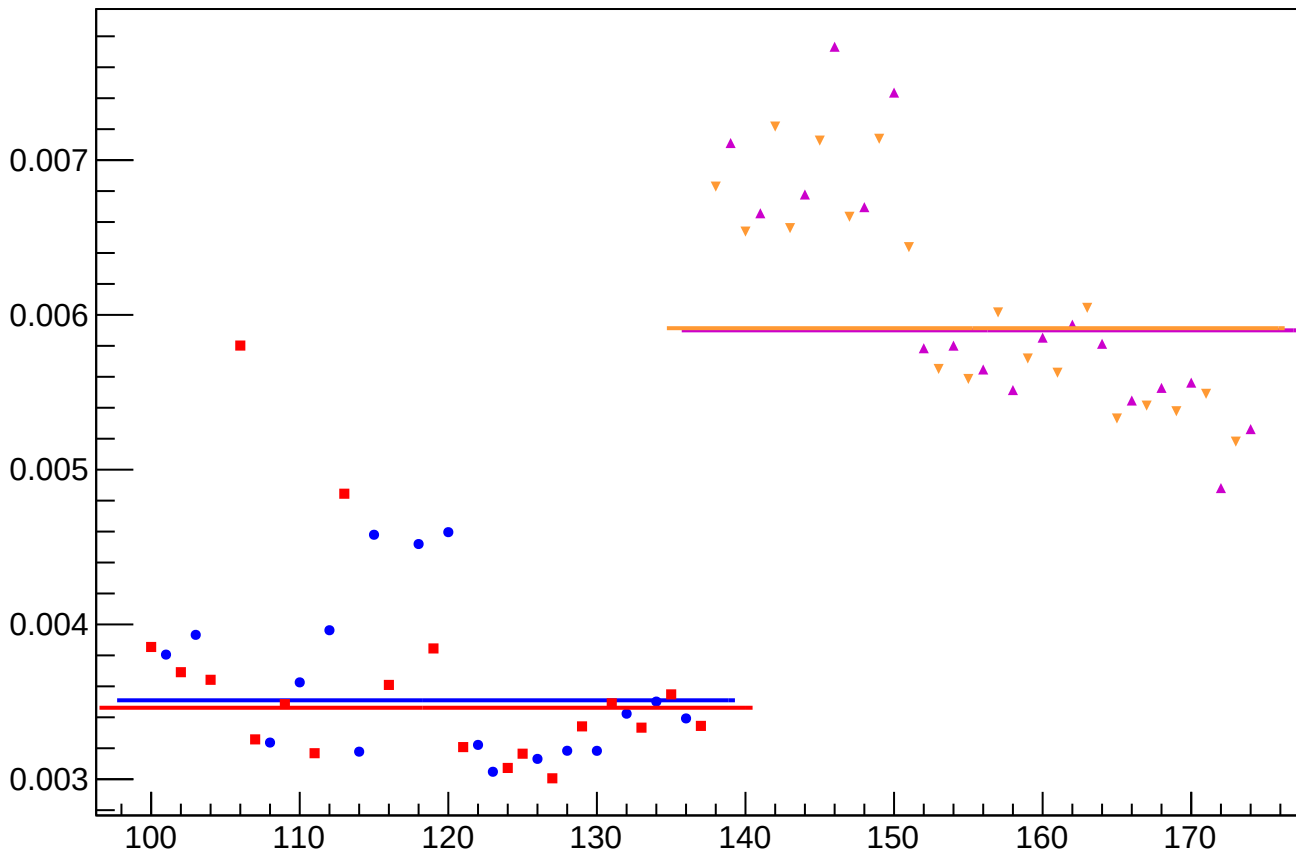
Right: -0.132 ± 0.000 $\chi^2/\text{NDF}: 1476596319761.2/3$

In: -0.076 ± 0.000 $\chi^2/\text{NDF}: 830196412317.9/34$

Out: -0.064 ± 0.000 $\chi^2/\text{NDF}: 894651315348.6/37$

All: -0.070 ± 0.000 $\chi^2/\text{NDF}: 1724914698790$

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF :268829.1/18

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :351741.9/17

Left: 0.006+/-0.000 χ^2/NDF : 620641.6/36

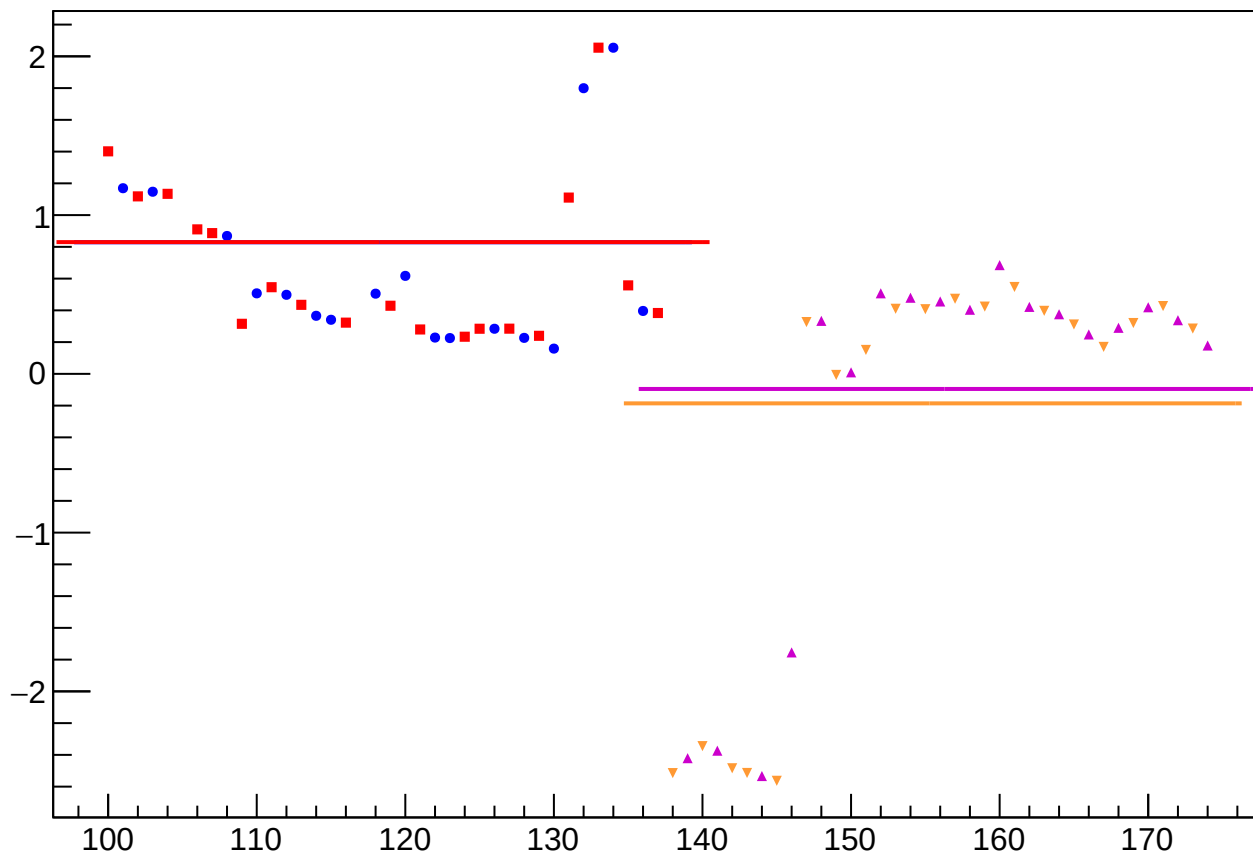
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.005+/-0.000 χ^2/NDF :2963302.2/34

Out: 0.004+/-0.000 χ^2/NDF :3152862.6/37

All: 0.004+/-0.000 χ^2/NDF : 6121078.8/72

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.186+/-0.000 χ^2/NDF : 475480950150.2/18

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.095+/-0.000 χ^2/NDF : 406317859402.8/17

Left: -0.141+/-0.000 χ^2/NDF : 883406874807.8/36

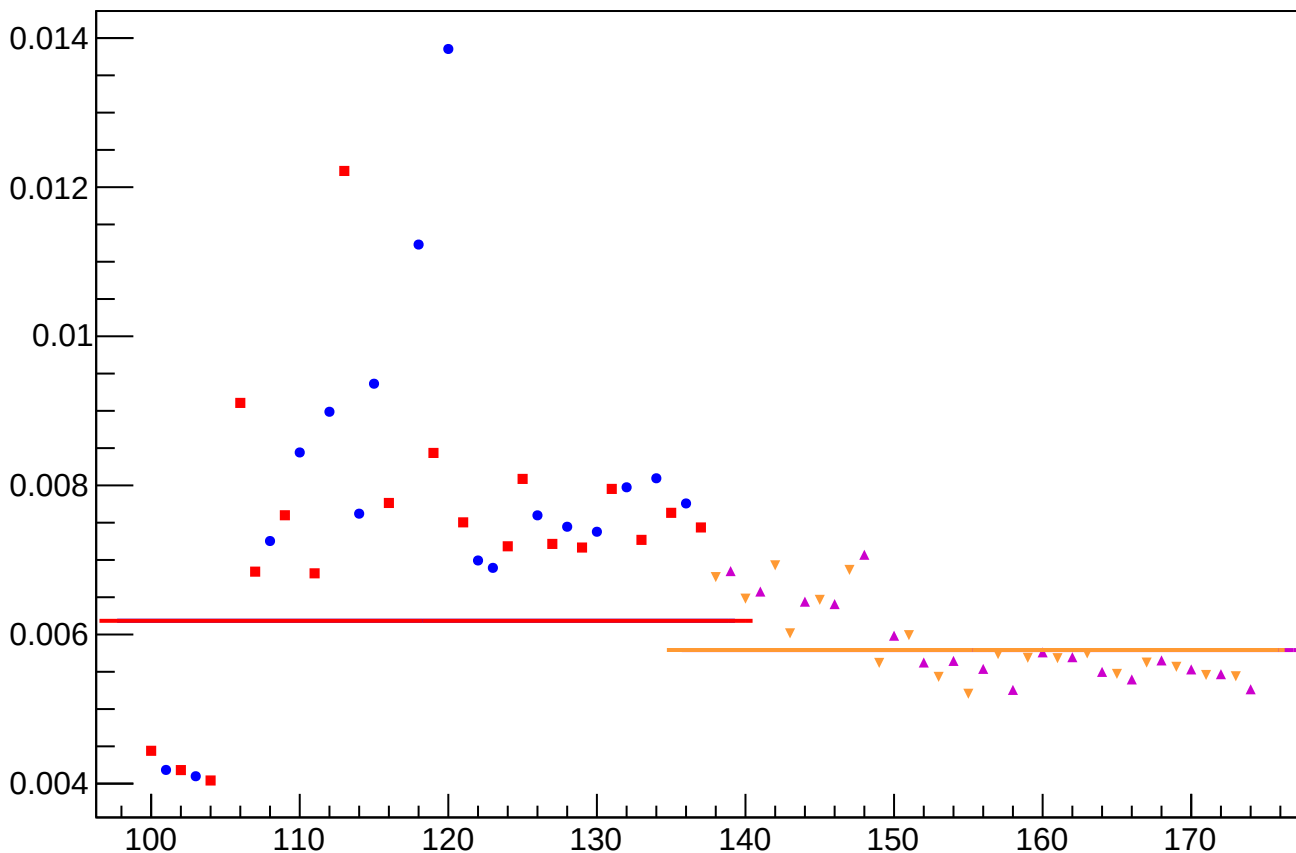
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.148+/-0.000 χ^2/NDF : 525436354814.3/34

Out: 0.098+/-0.000 χ^2/NDF : 621799380301.0/37

All: 0.123+/-0.000 χ^2/NDF : 1147925994638.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :165954.7/18

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :187625.2/17

Left: 0.006+/-0.000 χ^2/NDF : 353580.4/36

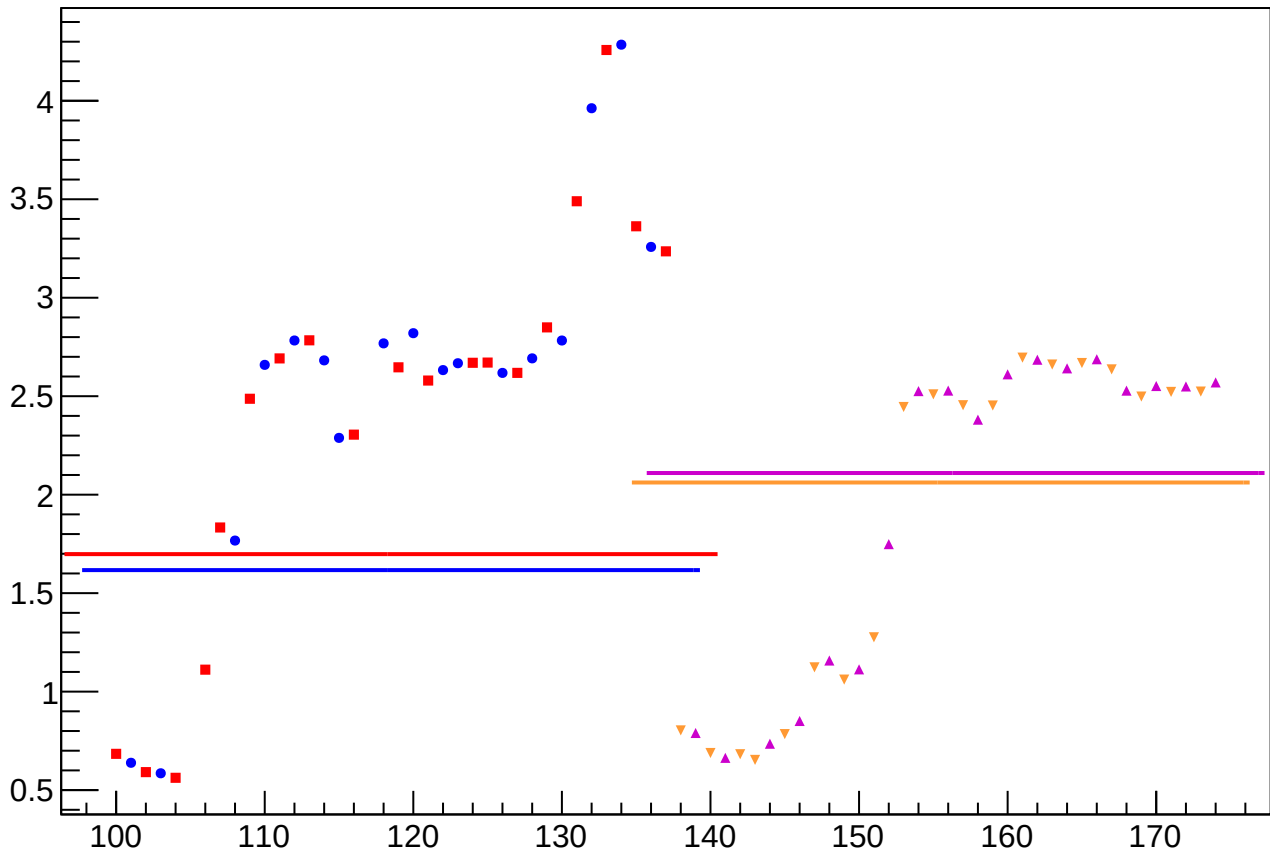
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1448299.1/34

Out: 0.006+/-0.000 χ^2/NDF :1226331.8/37

All: 0.006+/-0.000 χ^2/NDF : 2674654.2/72

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.062 $\pm$ 0.000 χ^2/NDF : 265797434807.7/18

Right Out: 1.698 $\pm$ 0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.110 $\pm$ 0.000 χ^2/NDF : 236109609912.6/17

Left: 2.086 $\pm$ 0.000 χ^2/NDF : 502427700305.5/36

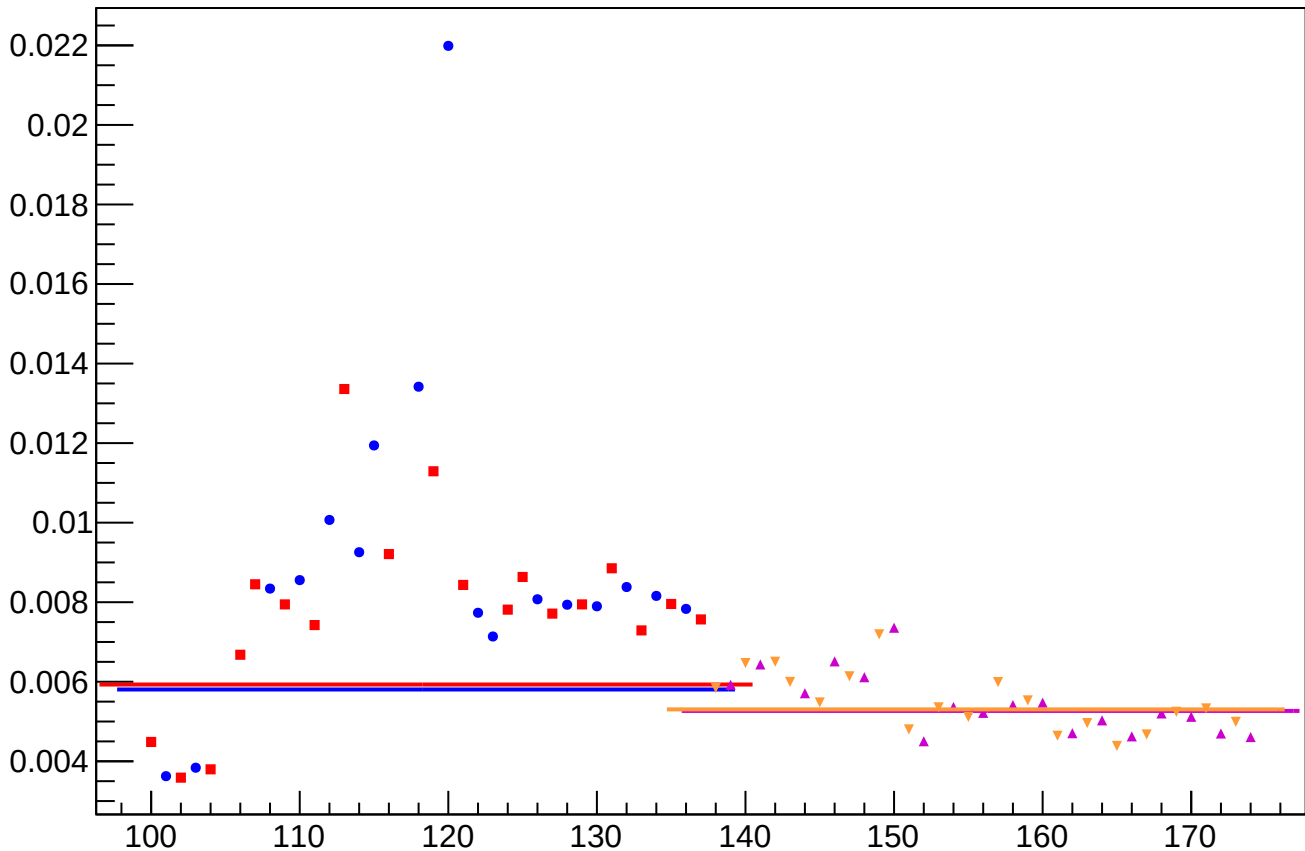
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 1.991 $\pm$ 0.000 χ^2/NDF : 465426203746.7/34

Out: 1.969 $\pm$ 0.000 χ^2/NDF : 508238793139.4/37

All: 1.980 $\pm$ 0.000 χ^2/NDF : 973807272563.3

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF :367516.3/18

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF :404262.2/17

Left: 0.005+/-0.000 χ^2/NDF : 772442.0/36

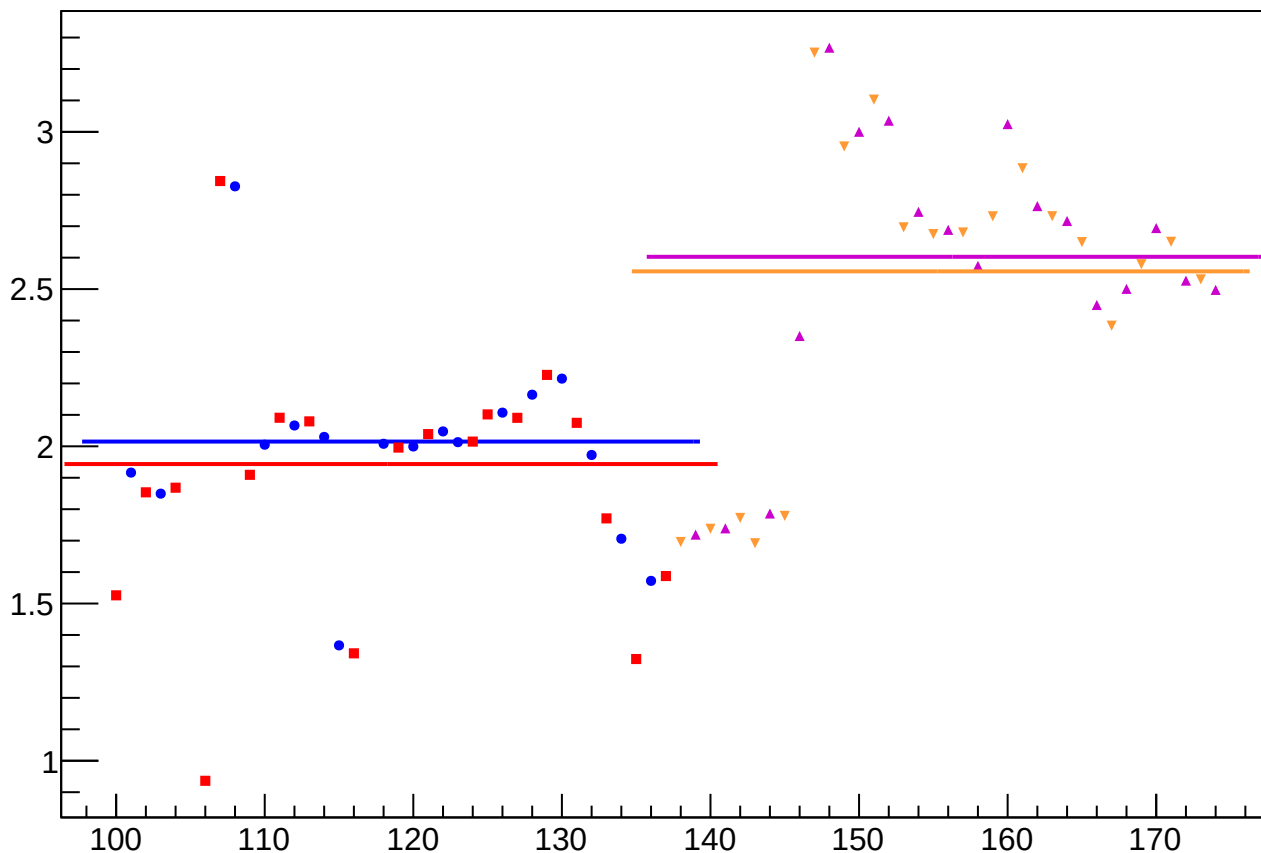
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF :2385442.1/34

Out: 0.005+/-0.000 χ^2/NDF :2141983.5/37

All: 0.005+/-0.000 χ^2/NDF : 4530148.8/72

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.556+/-0.000 χ^2/NDF : 48714264866.0/18

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.603+/-0.000 χ^2/NDF : 41490681577.7/17

Left: 2.580+/-0.000 χ^2/NDF : 90469503119.1/36

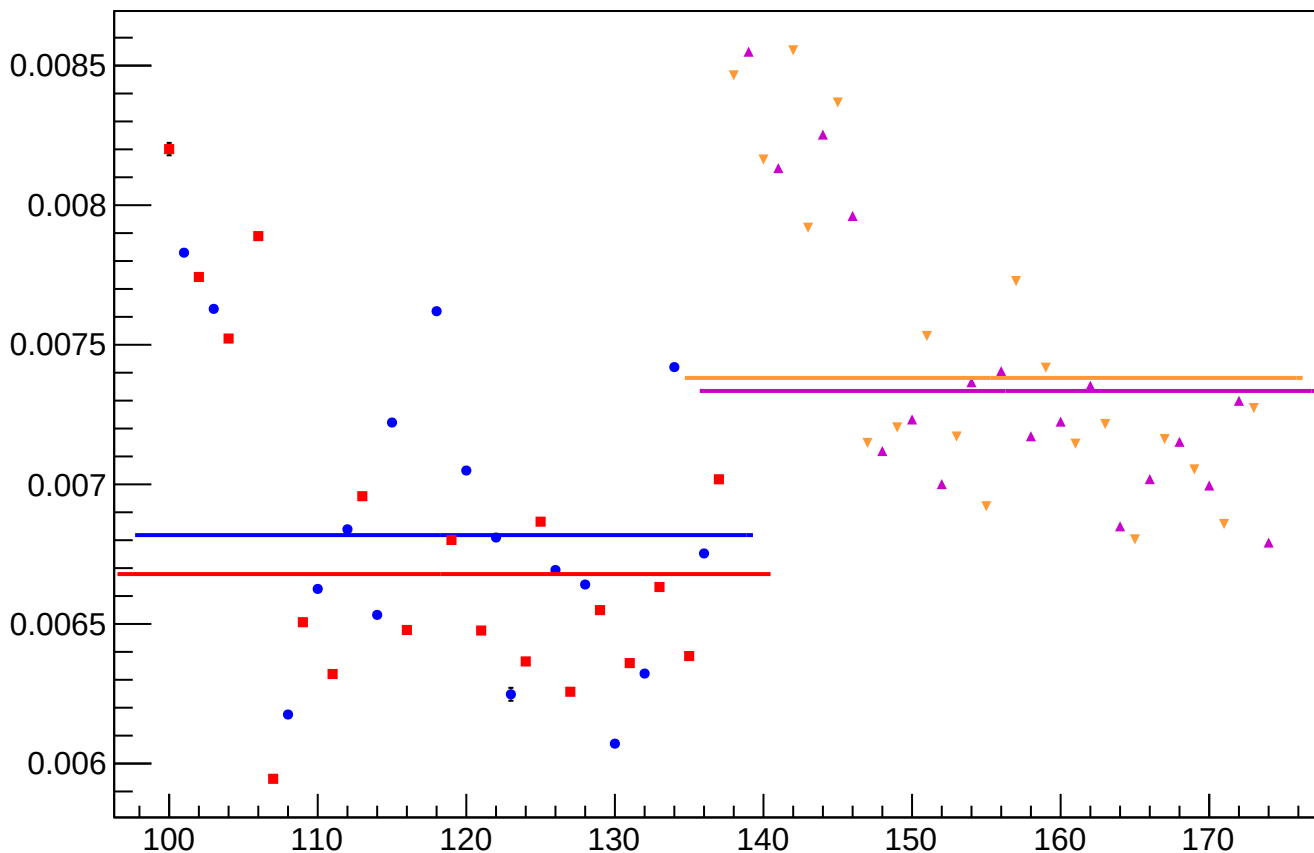
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.393+/-0.000 χ^2/NDF : 84136059555.8/34

Out: 2.322+/-0.000 χ^2/NDF : 105466696323.1/37

All: 2.357+/-0.000 χ^2/NDF : 190588689971.0

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 75813.9/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:115609.5/18

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 75718.4/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:100427.6/17

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 216572.7/36

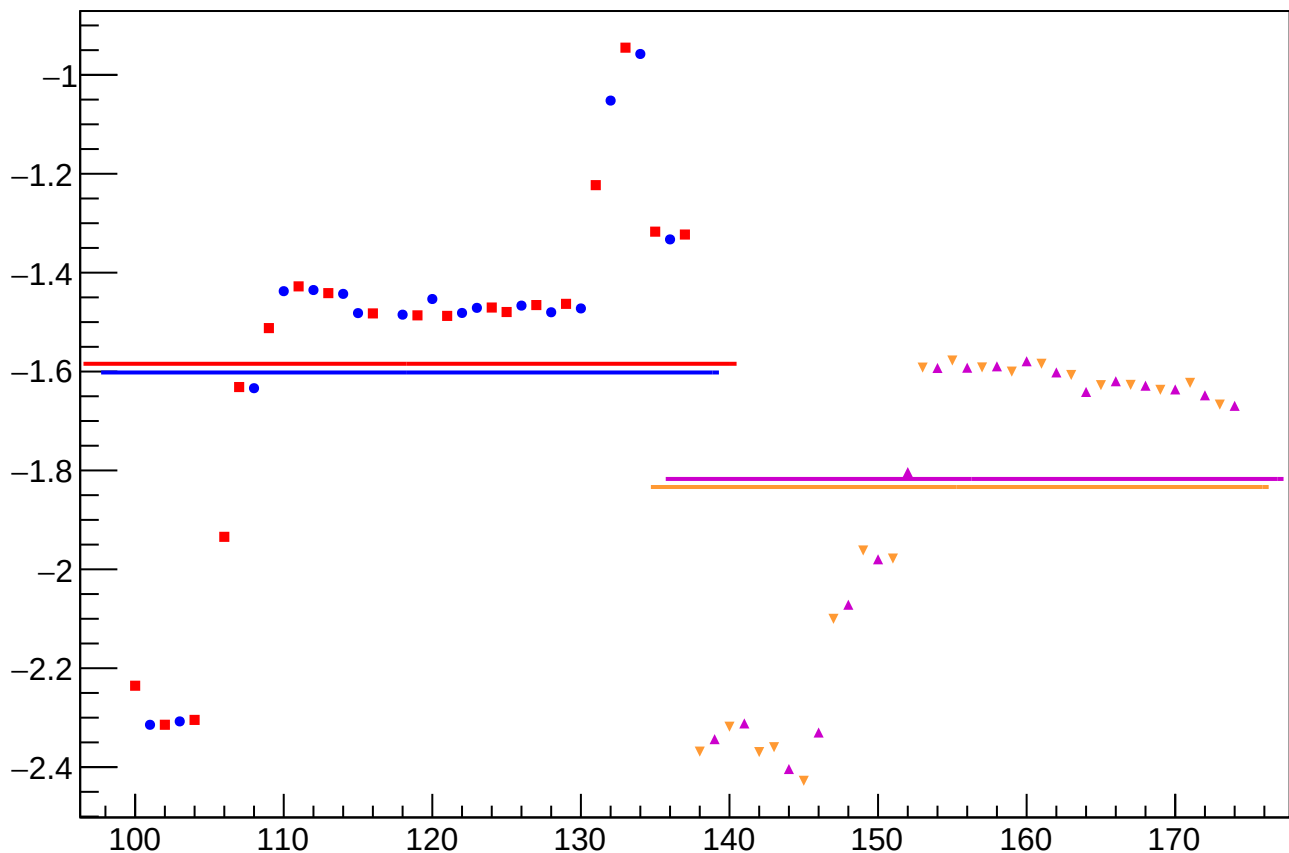
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 154341.2/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:223217.7/34

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:284187.0/37

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 507962.4/72

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602 $\pm$ 0.000 χ^2 /NDF: 140200656044.3/16

Left Out: -1.834 $\pm$ 0.000 χ^2 /NDF: 171833408167.5/18

Right Out: -1.584 $\pm$ 0.000 χ^2 /NDF: 143578606614.3/18

Left In: -1.817 $\pm$ 0.000 χ^2 /NDF: 153845642427.6/17

Left: -1.825 $\pm$ 0.000 χ^2 /NDF: 325911696992.7/36

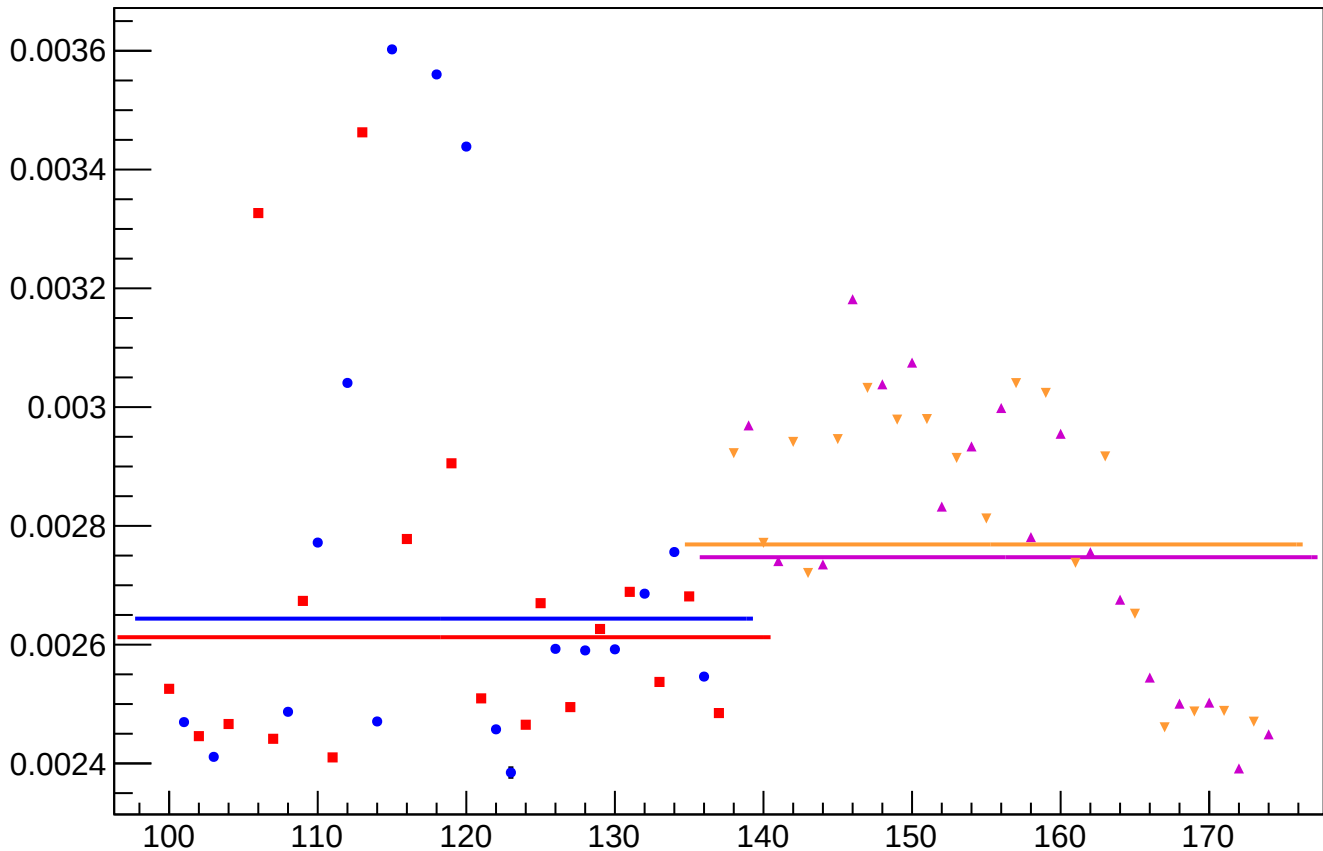
Right: -1.593 $\pm$ 0.000 χ^2 /NDF: 283924451158.7/35

In: -1.744 $\pm$ 0.000 χ^2 /NDF: 321604329919.1/34

Out: -1.744 $\pm$ 0.000 χ^2 /NDF: 354345628831.3/37

All: -1.744 $\pm$ 0.000 χ^2 /NDF: 675950102418.6

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :155283.8/18

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :183297.5/17

Left: 0.003+/-0.000 χ^2/NDF : 339391.4/36

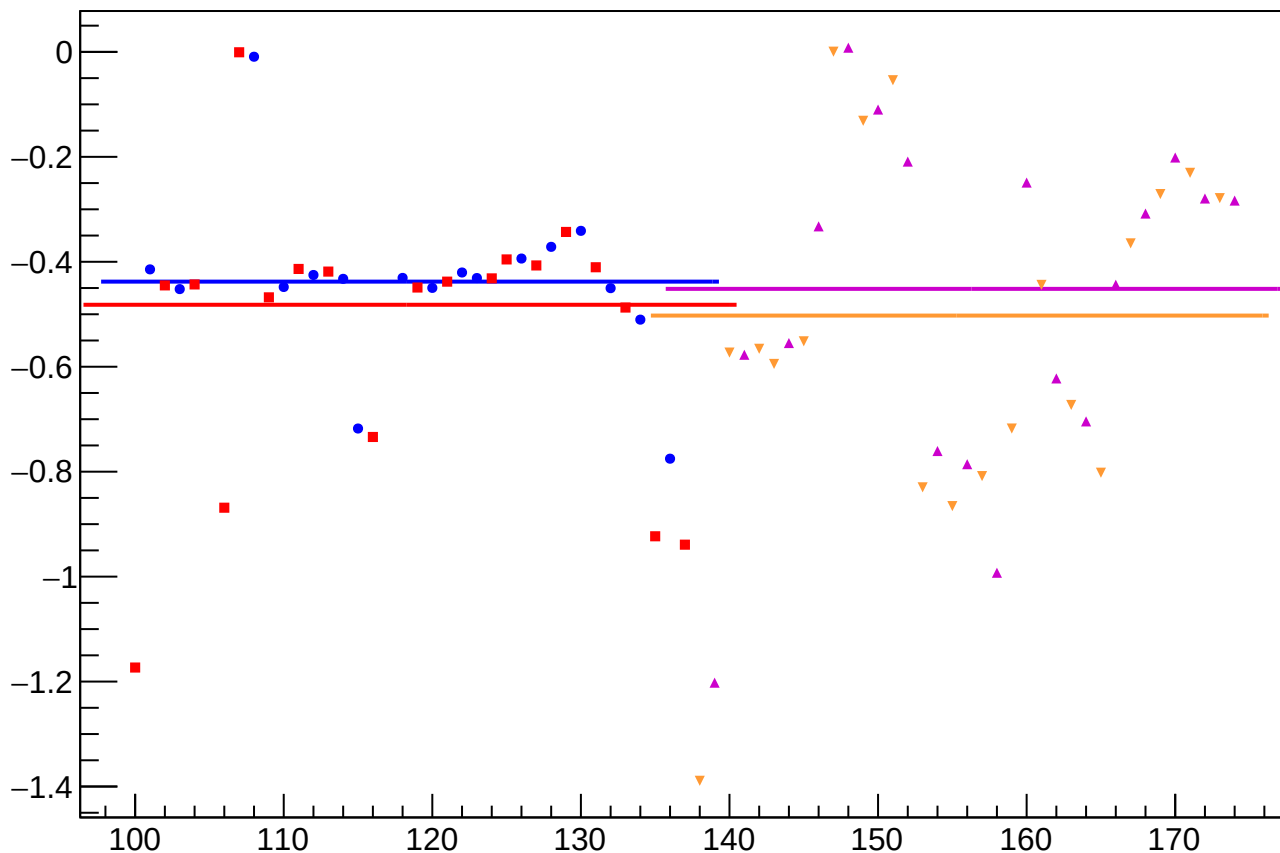
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :347397.7/34

Out: 0.003+/-0.000 χ^2/NDF :291177.1/37

All: 0.003+/-0.000 χ^2/NDF : 638575.2/72

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000

χ^2/NDF : 1462454117.6/16

Left: -0.477+/-0.000

χ^2/NDF : 17455414002.6/36

Left Out: -0.502+/-0.000

χ^2/NDF : 9198017173.7/18

Right: -0.461+/-0.000

χ^2/NDF : 4208237576.2/35

Right Out: -0.482+/-0.000

χ^2/NDF : 2694625740.7/18

In: -0.447+/-0.000

χ^2/NDF : 9612370599.2/34

Out: -0.494+/-0.000

χ^2/NDF : 11907136410.7/37

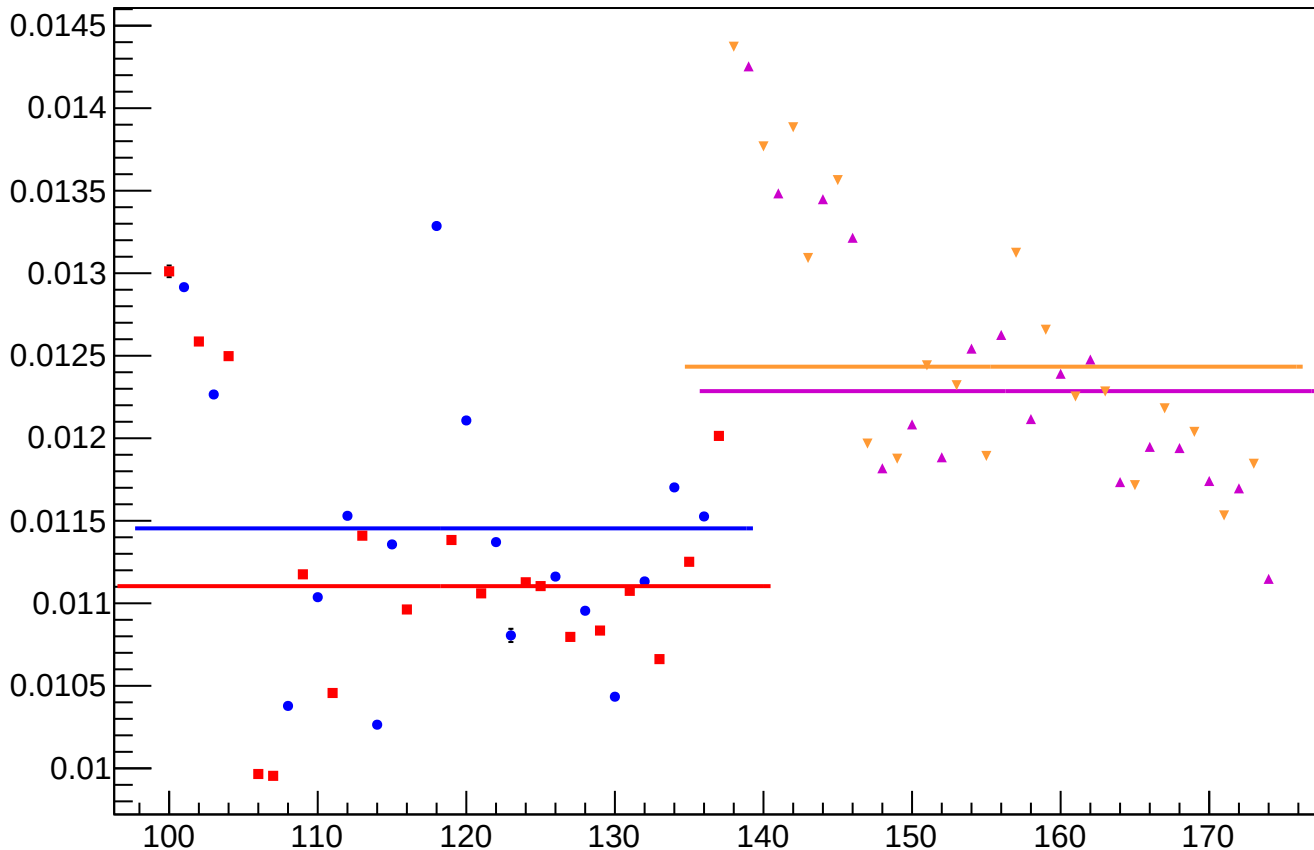
Left In: -0.452+/-0.000

χ^2/NDF : 8143891564.9/17

All: -0.471+/-0.000

χ^2/NDF : 21679751242.6/174

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.012+/-0.000 χ^2/NDF :93498.4/18

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF :90950.2/17

Left: 0.012+/-0.000 χ^2/NDF : 186373.3/36

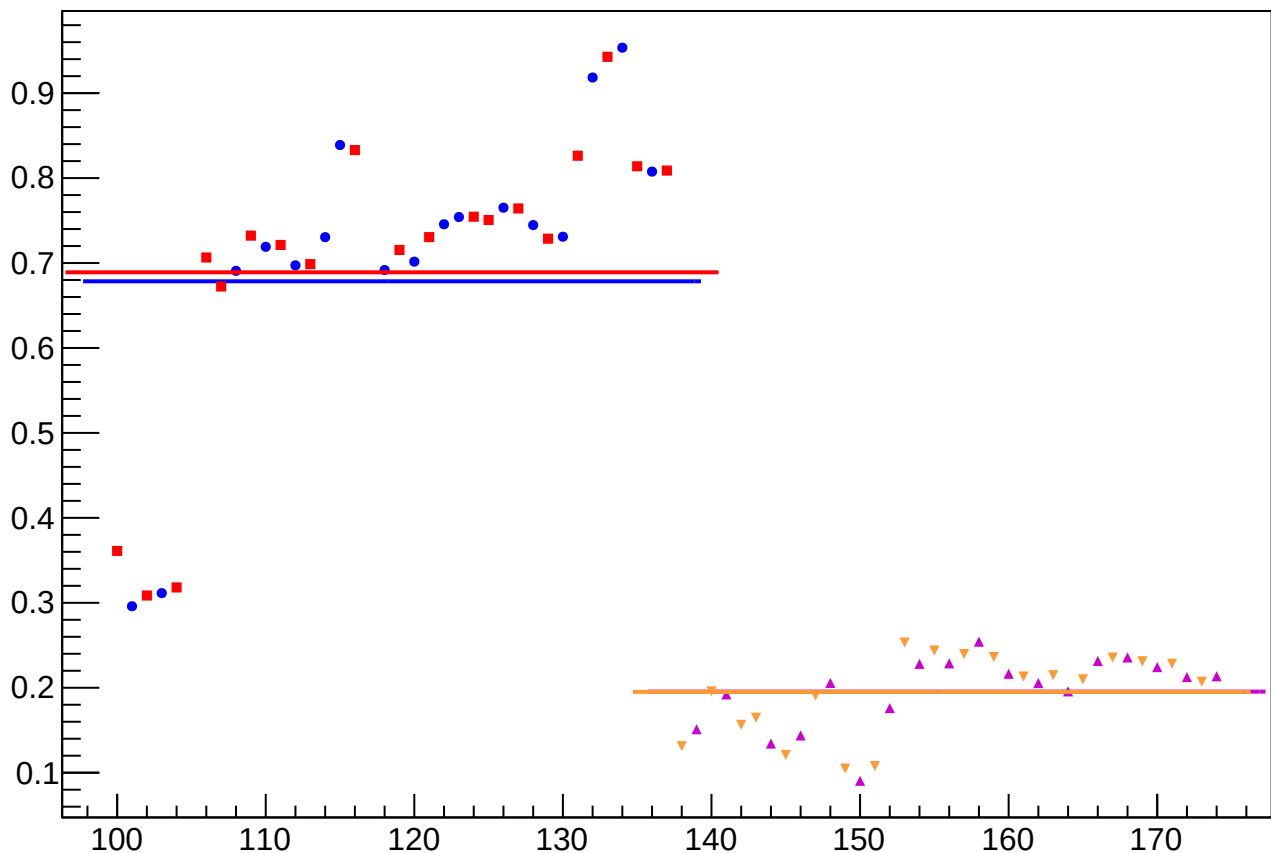
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :199359.0/34

Out: 0.012+/-0.000 χ^2/NDF :270537.8/37

All: 0.012+/-0.000 χ^2/NDF : 470677.9/72

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.195+/-0.000 χ^2/NDF : 6526918706.9/18

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.195+/-0.000 χ^2/NDF : 5227297387.5/17

Left: 0.195+/-0.000 χ^2/NDF : 11754383876.2/36

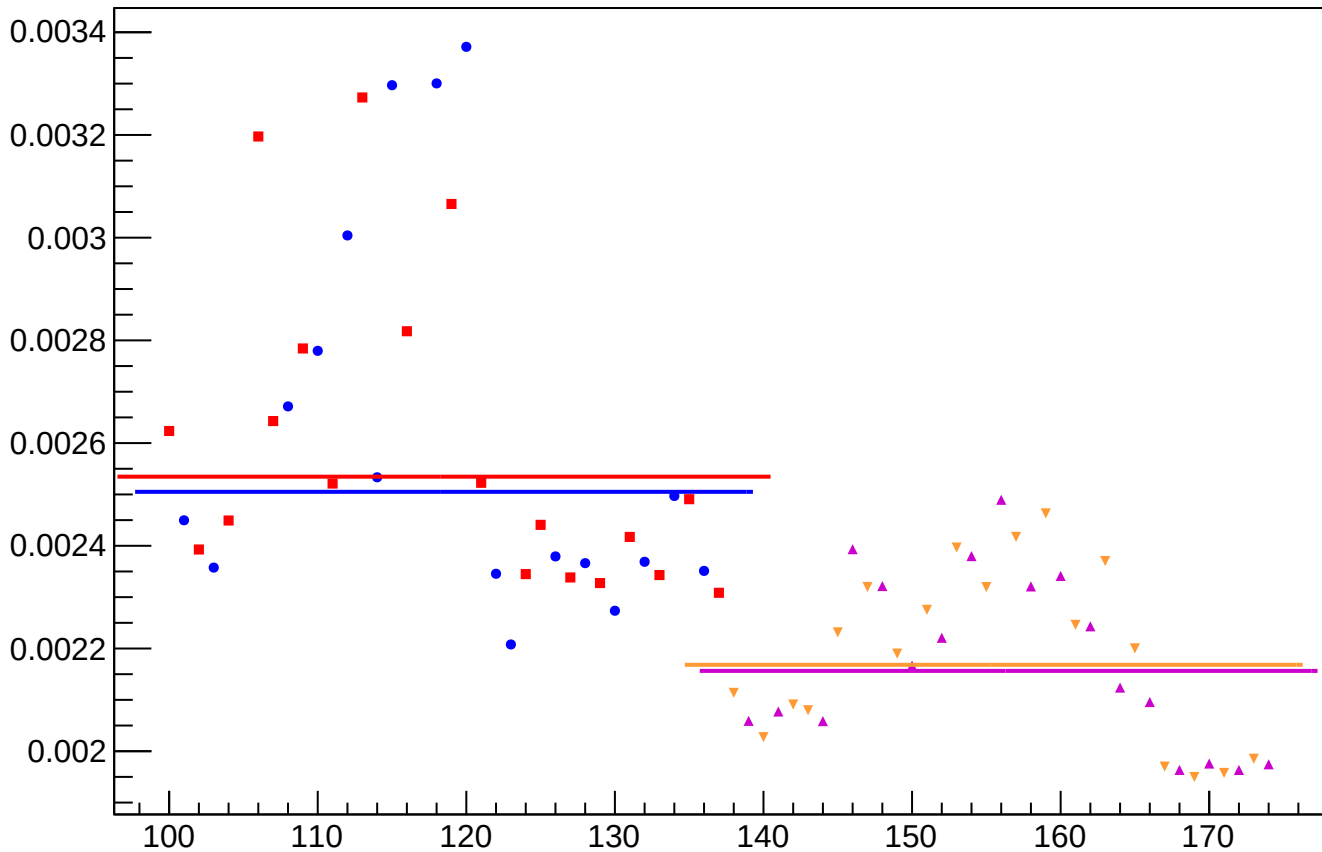
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.319+/-0.000 χ^2/NDF : 219975498271.3/34

Out: 0.324+/-0.000 χ^2/NDF : 230248626751.3/37

All: 0.321+/-0.000 χ^2/NDF : 450262814006.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF :163183.1/18

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :153698.7/17

Left: 0.002+/-0.000 χ^2/NDF : 317301.2/36

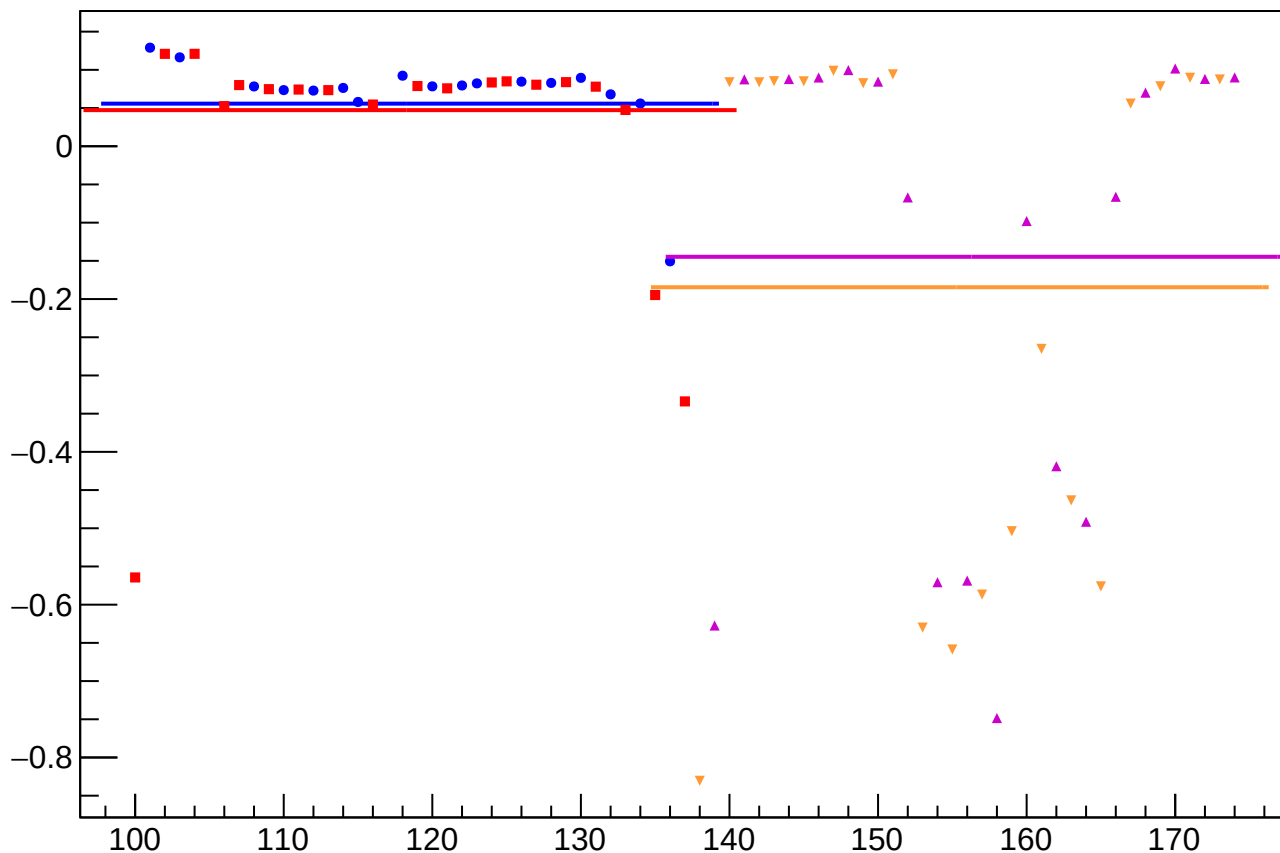
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :512922.5/34

Out: 0.002+/-0.000 χ^2/NDF :501977.9/37

All: 0.002+/-0.000 χ^2/NDF : 1016171.9/72

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.165+/-0.000

χ^2/NDF : 21412435406.8/36

Left Out: -0.185+/-0.000

χ^2/NDF : 11573467170.9/18

Right: 0.051+/-0.000

χ^2/NDF : 1245197626.4/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819588537.2/18

In: -0.067+/-0.000

χ^2/NDF : 11842853083.0/34

Out: -0.087+/-0.000

χ^2/NDF : 14803573750.4/37

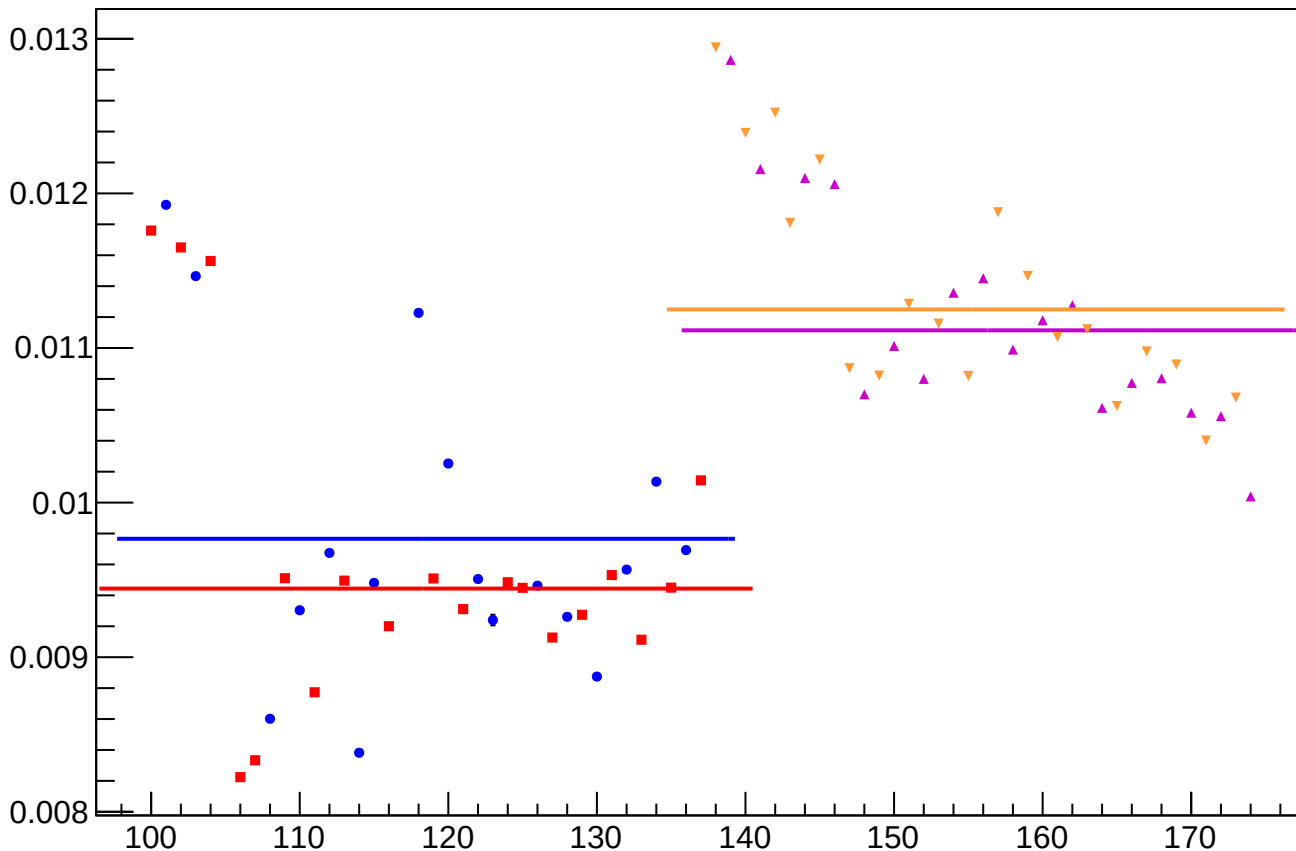
Left In: -0.145+/-0.000

χ^2/NDF : 9753837156.5/17

All: -0.078+/-0.000

χ^2/NDF : 26681263312.1/177

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 88382.6/18

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 91576.9/17

Left: 0.011+/-0.000 χ^2/NDF : 181913.4/36

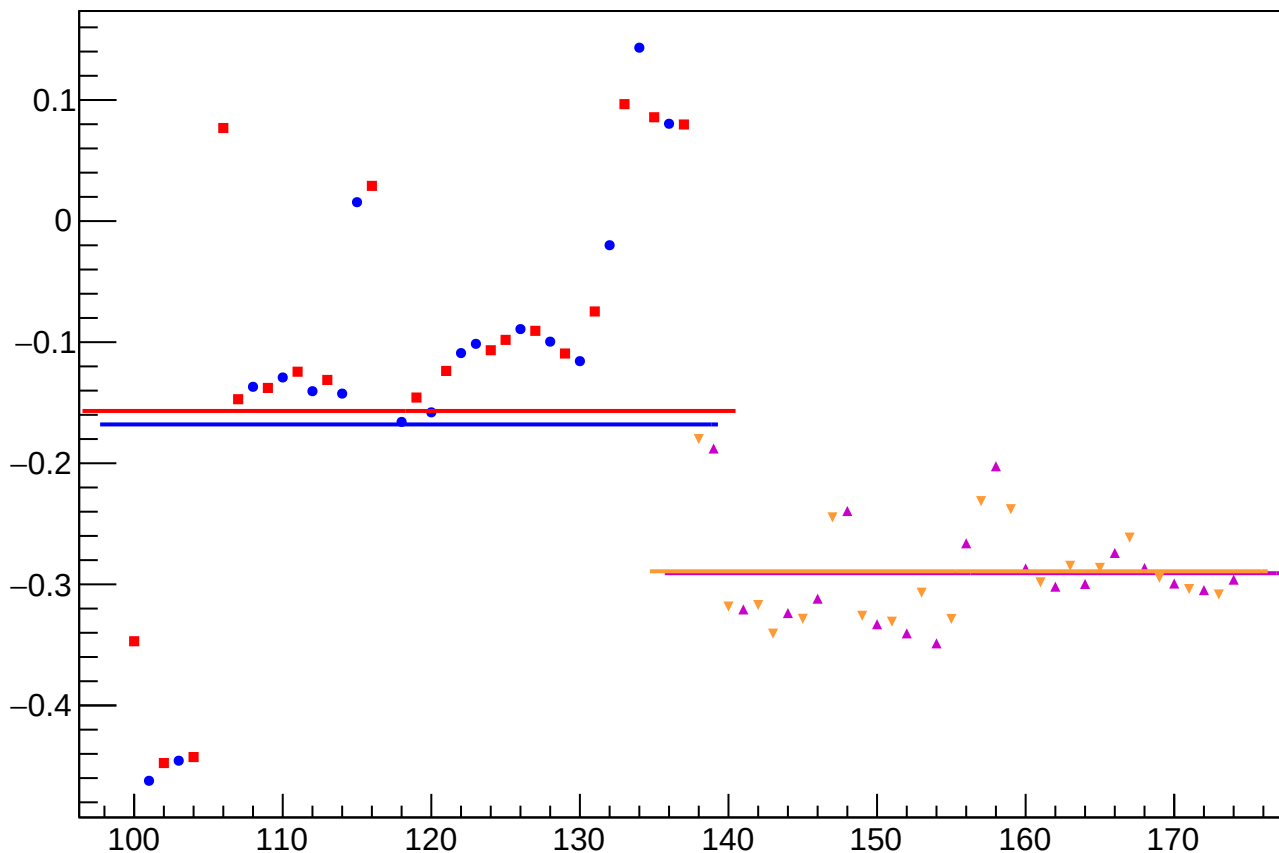
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 359023.3/34

Out: 0.010+/-0.000 χ^2/NDF : 491633.0/37

All: 0.011+/-0.000 χ^2/NDF : 852599.5/72

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.289+/-0.000 χ^2/NDF : 2845959381.8/18

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.291+/-0.000 χ^2/NDF : 3117717571.9/17

Left: -0.290+/-0.000 χ^2/NDF : 5965907851.7/36

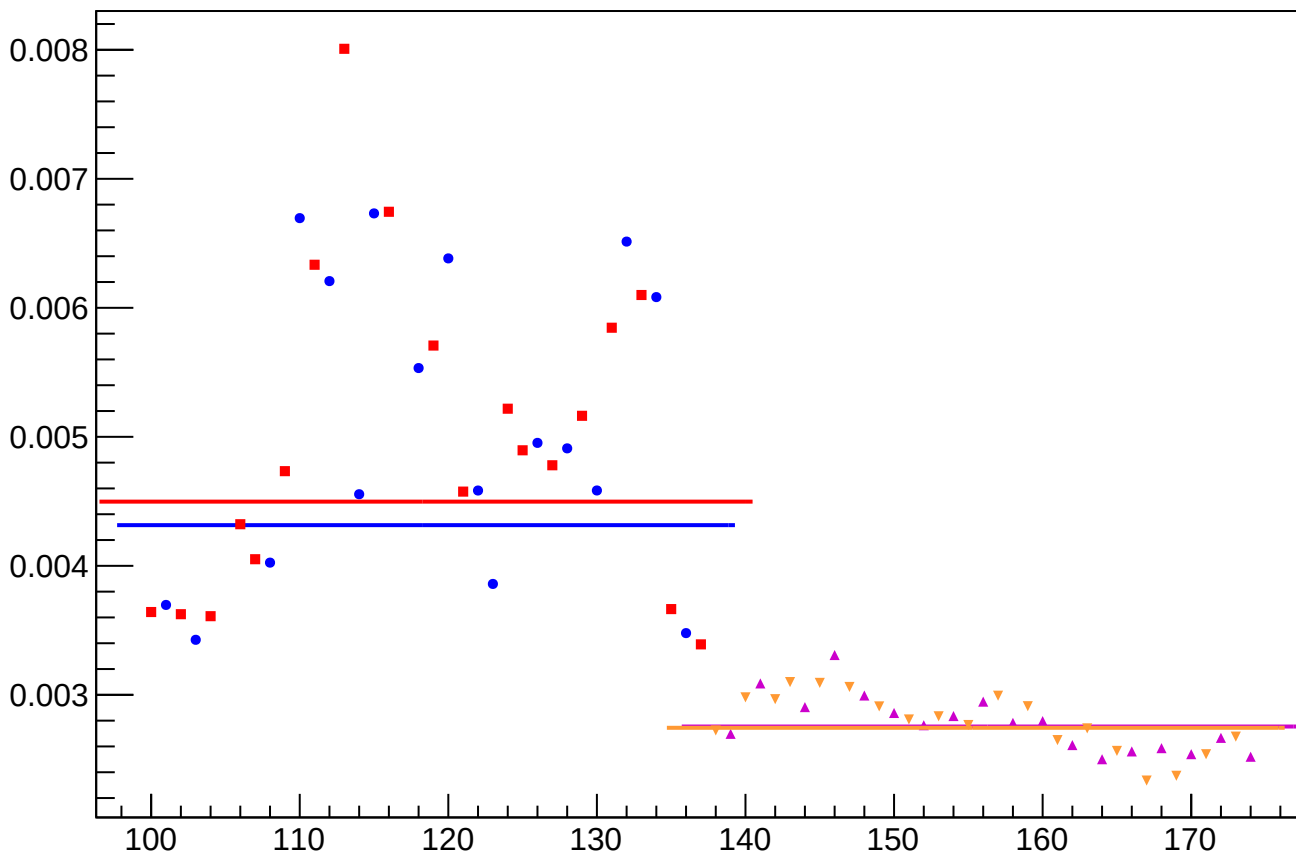
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.272+/-0.000 χ^2/NDF : 19444272860.3/34

Out: -0.270+/-0.000 χ^2/NDF : 18474111430.6/37

All: -0.271+/-0.000 χ^2/NDF : 37924293503.5/74

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 619744.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:190389.5/18

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 649708.4/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:137405.6/17

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 327967.7/36

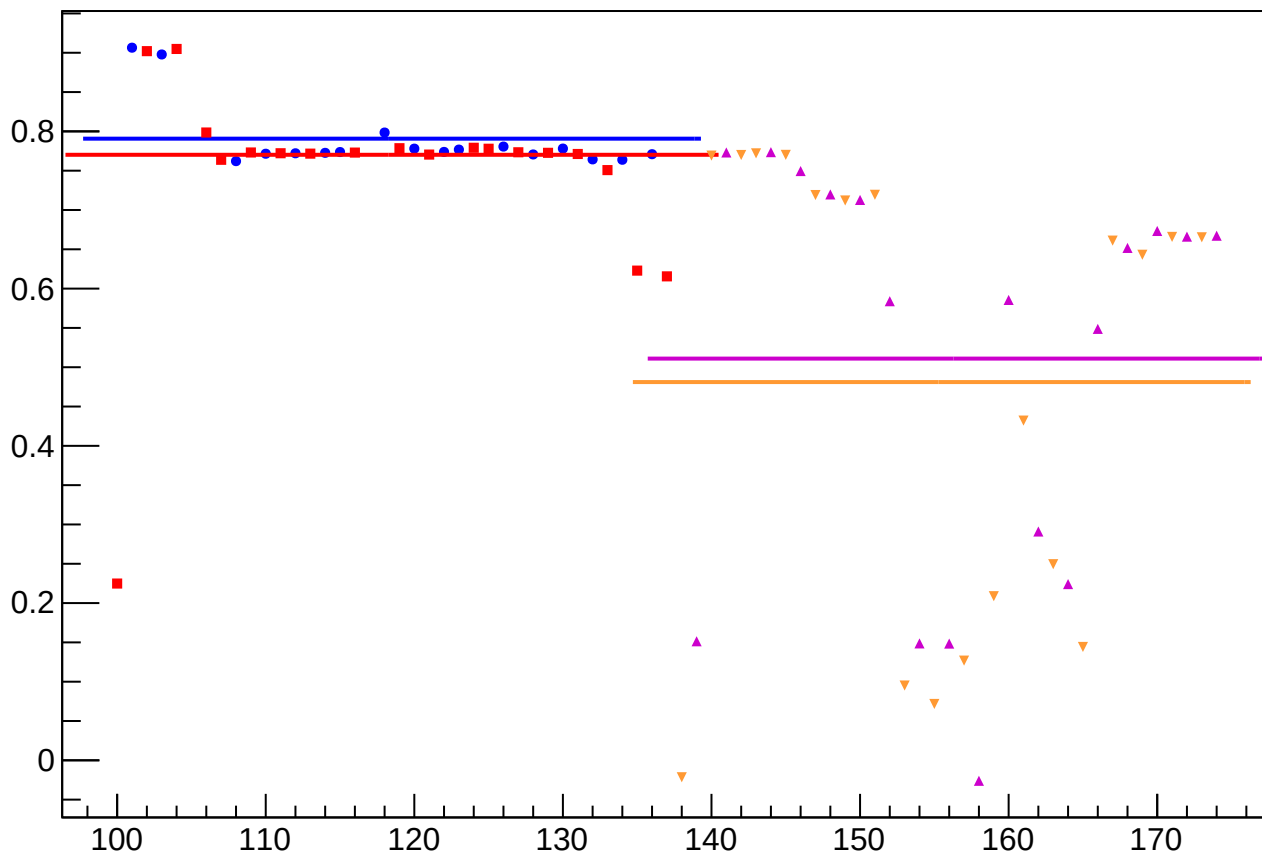
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1279743.5/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2047056.9/34

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:2453539.1/37

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4500830.2/72

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.481+/-0.000 χ^2/NDF : 8793931102.0/18

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.511+/-0.000 χ^2/NDF : 7443702003.0/17

Left: 0.496+/-0.000 χ^2/NDF : 16287939234.2/36

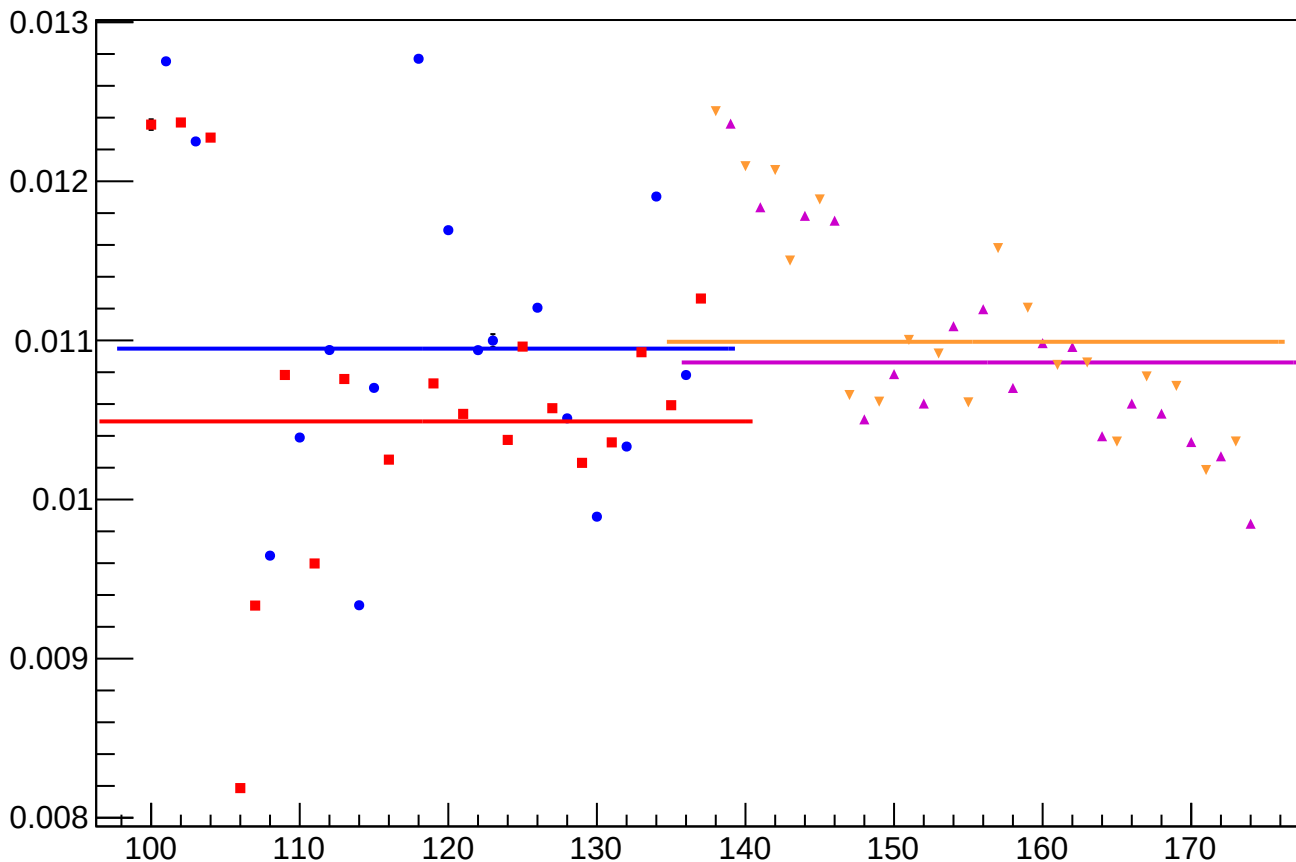
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.601+/-0.000 χ^2/NDF : 10403790797.9/34

Out: 0.585+/-0.000 χ^2/NDF : 12534239515.0/37

All: 0.593+/-0.000 χ^2/NDF : 22961131595.9/71

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98551.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 78945.1/18

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 119420.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 82540.4/17

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 163390.3/36

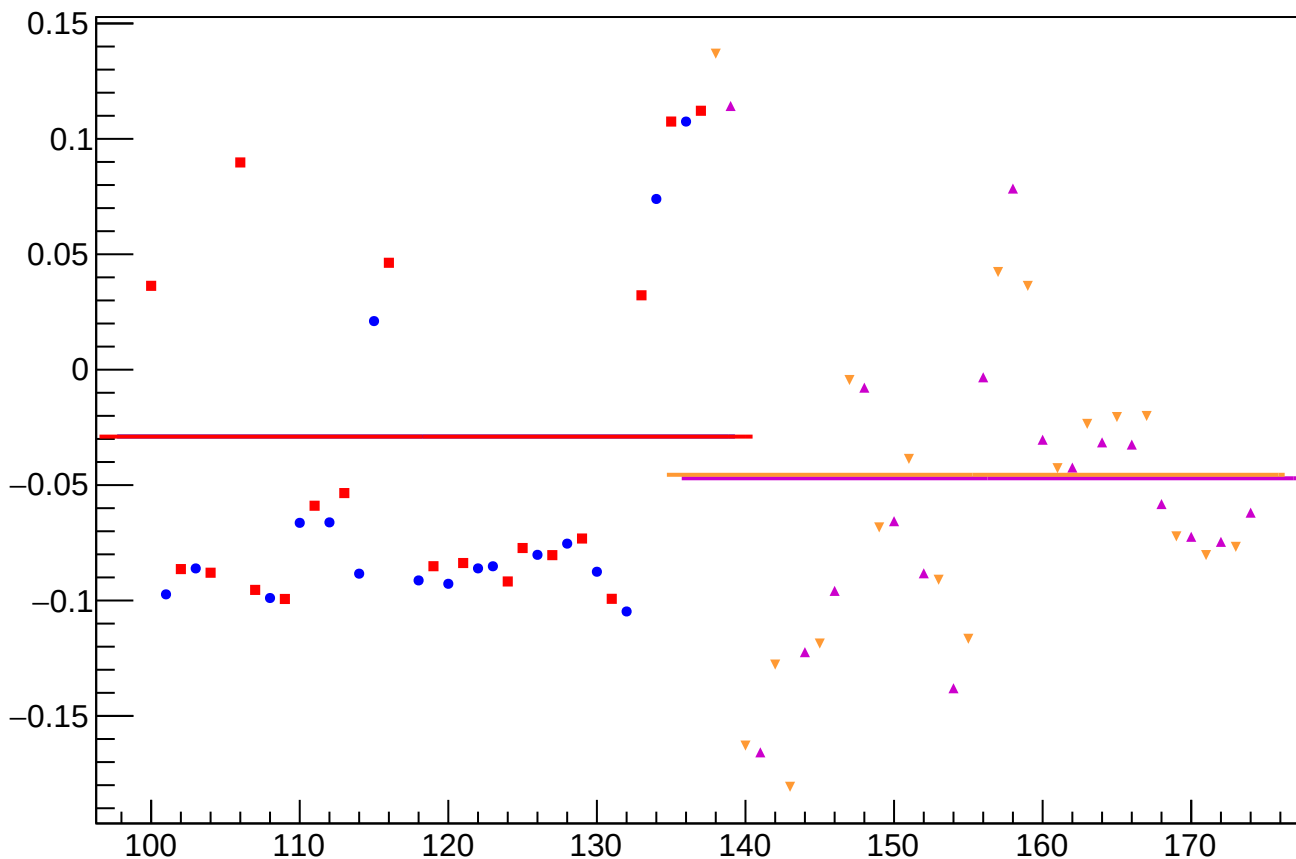
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 230086.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 181642.7/34

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 218532.4/37

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 401193.1/72

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.046+/-0.000

χ^2/NDF : 13098326938.7/36

Left Out: -0.046+/-0.000

χ^2/NDF : 7064973349.4/18

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.044+/-0.000

χ^2/NDF : 8560112454.4/34

Out: -0.043+/-0.000

χ^2/NDF : 9245136204.5/37

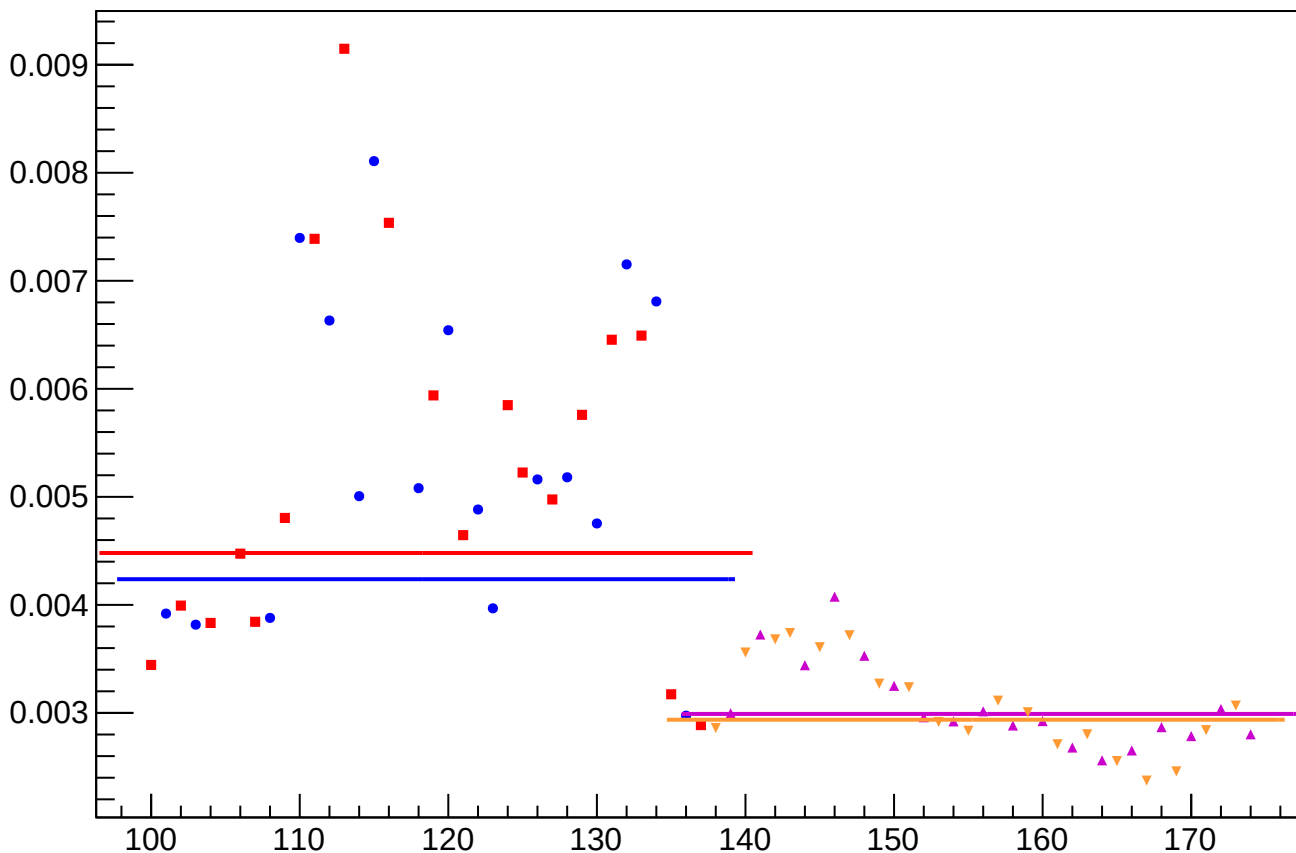
Left In: -0.047+/-0.000

χ^2/NDF : 6031643541.0/17

All: -0.043+/-0.000

χ^2/NDF : 17806178010.2/70

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 463988.4/18

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316064.0/17

Left: 0.003+/-0.000 χ^2/NDF : 784321.1/36

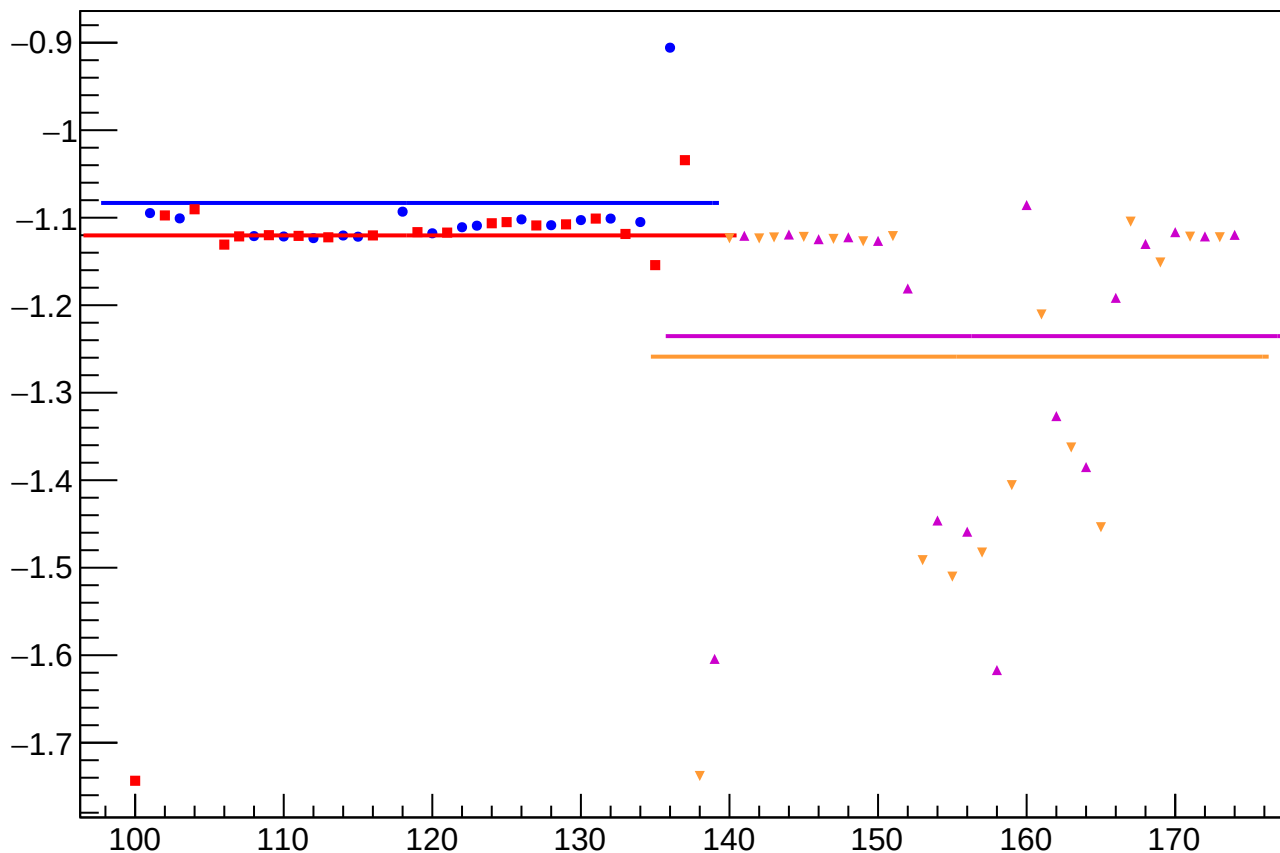
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1980096.6/34

Out: 0.003+/-0.000 χ^2/NDF : 2612284.3/37

All: 0.003+/-0.000 χ^2/NDF : 4593315.7/72

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.259+/-0.000 χ^2/NDF : 4566342621.4/18

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.235+/-0.000 χ^2/NDF : 4089409937.7/17

Left: -1.247+/-0.000 χ^2/NDF : 8694310326.0/36

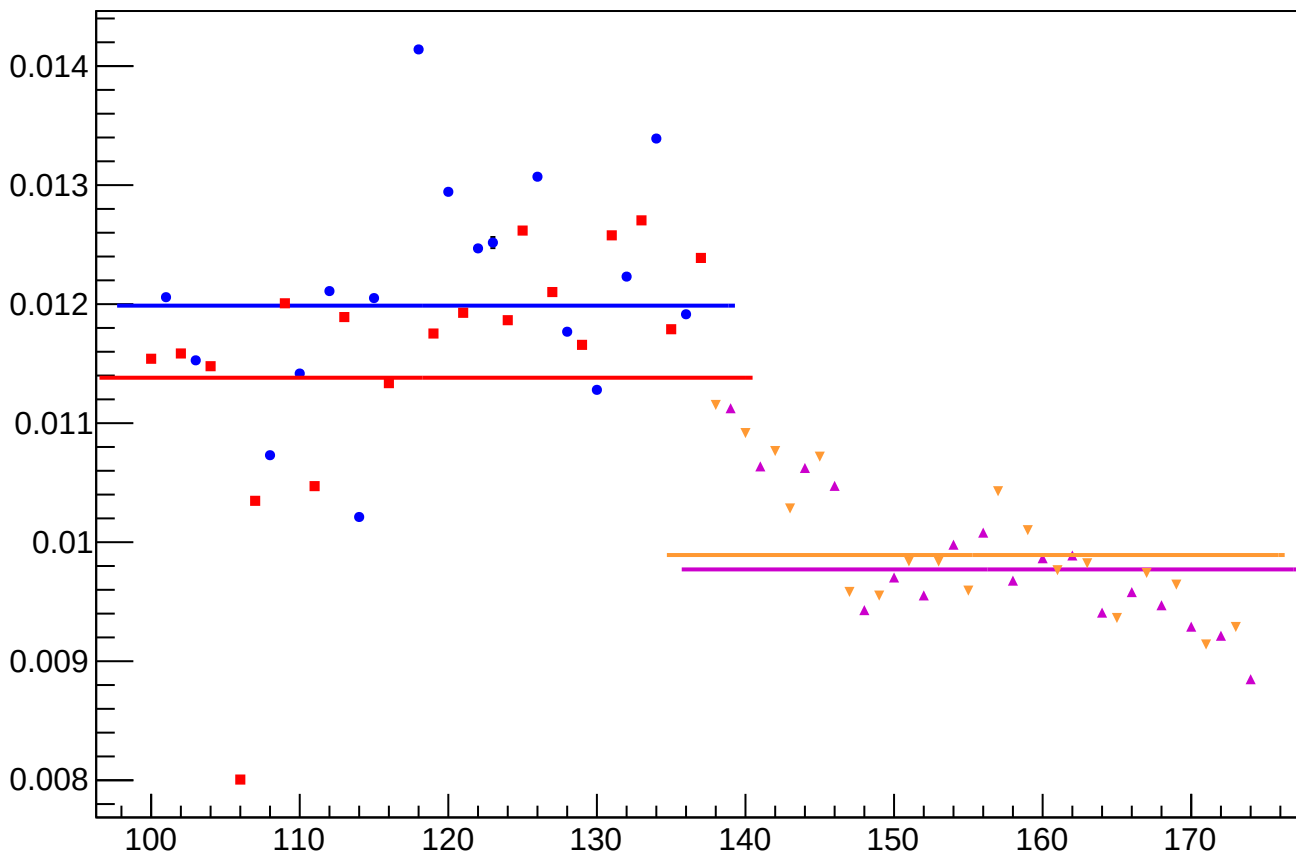
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.199+/-0.000 χ^2/NDF : 5079271982.9/34

Out: -1.221+/-0.000 χ^2/NDF : 5522906147.1/37

All: -1.210+/-0.000 χ^2/NDF : 10648586613.5/74

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 60402.0/16

Left Out: 0.010+/-0.000 χ^2/NDF : 78270.6/18

Right Out: 0.011+/-0.000 χ^2/NDF : 154529.8/18

Left In: 0.010+/-0.000 χ^2/NDF : 82288.3/17

Left: 0.010+/-0.000 χ^2/NDF : 162608.5/36

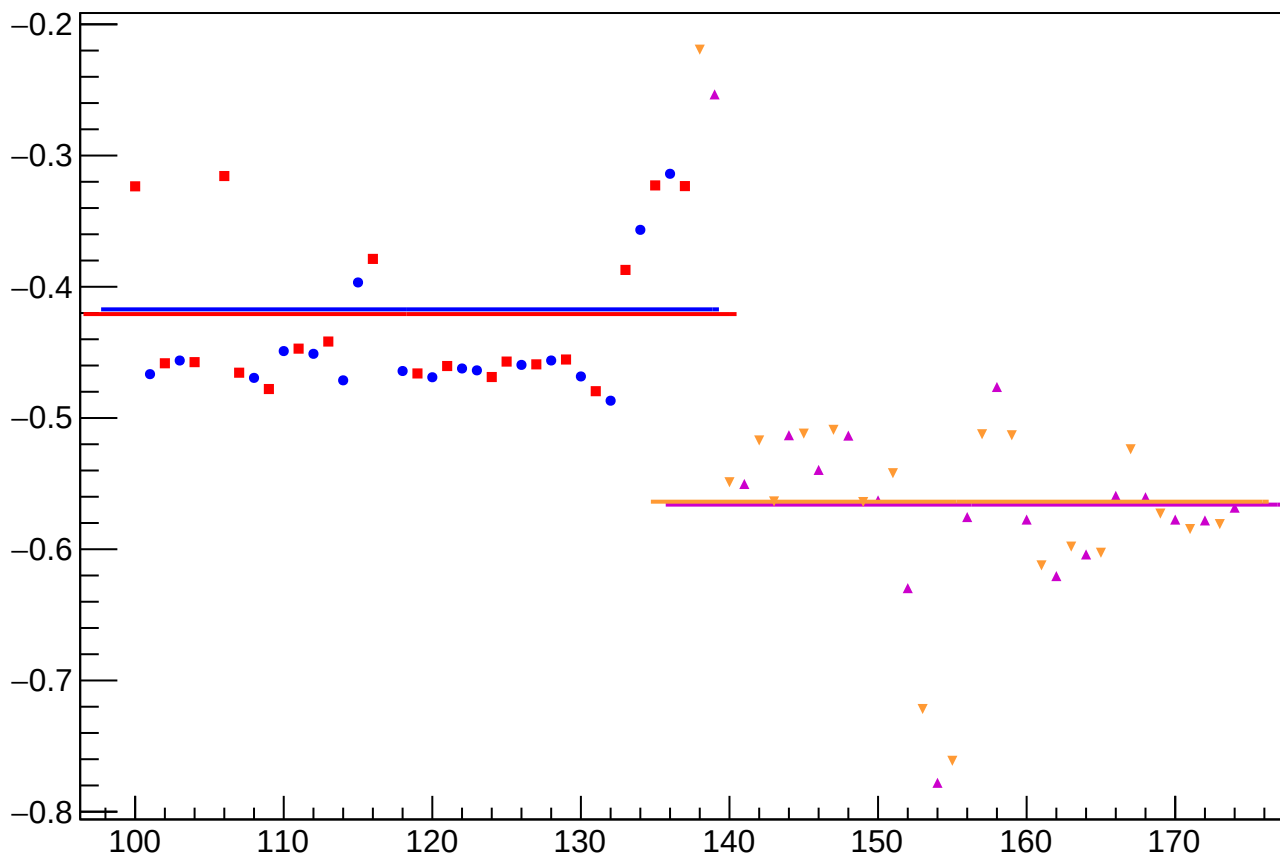
Right: 0.012+/-0.000 χ^2/NDF : 232714.9/35

In: 0.010+/-0.000 χ^2/NDF : 476390.7/34

Out: 0.010+/-0.000 χ^2/NDF : 402918.2/37

All: 0.010+/-0.000 χ^2/NDF : 879314.2/72

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.564+/-0.000 χ^2/NDF : 13309758483.7/18

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.566+/-0.000 χ^2/NDF : 10431883565.1/17

Left: -0.565+/-0.000 χ^2/NDF : 23744671905.2/36

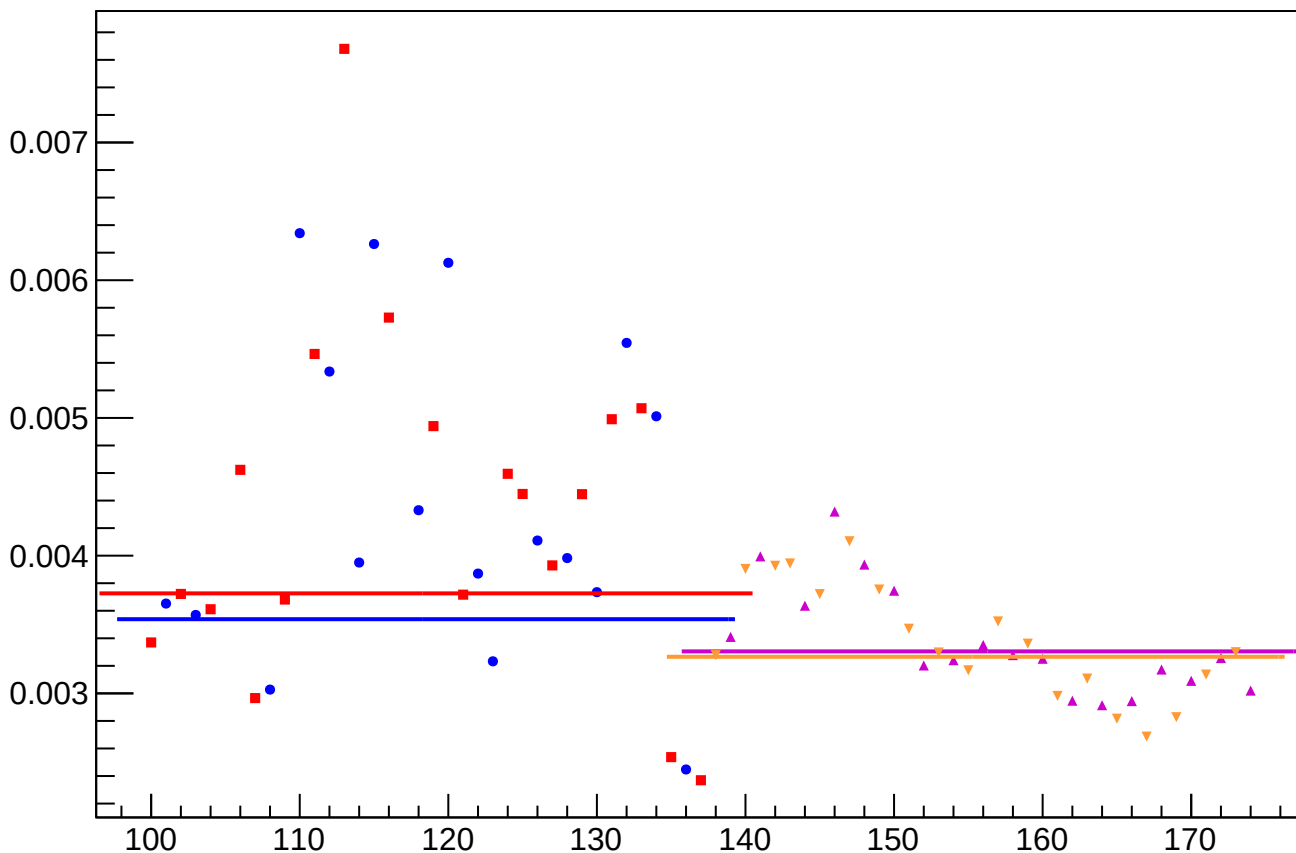
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.526+/-0.000 χ^2/NDF : 19506801114.0/34

Out: -0.527+/-0.000 χ^2/NDF : 21379305730.2/37

All: -0.527+/-0.000 χ^2/NDF : 40887423320.4/77

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 836154.0/16

Left Out: 0.003+/-0.000 χ^2/NDF :372640.2/18

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF :276224.6/17

Left: 0.003+/-0.000 χ^2/NDF : 650712.5/36

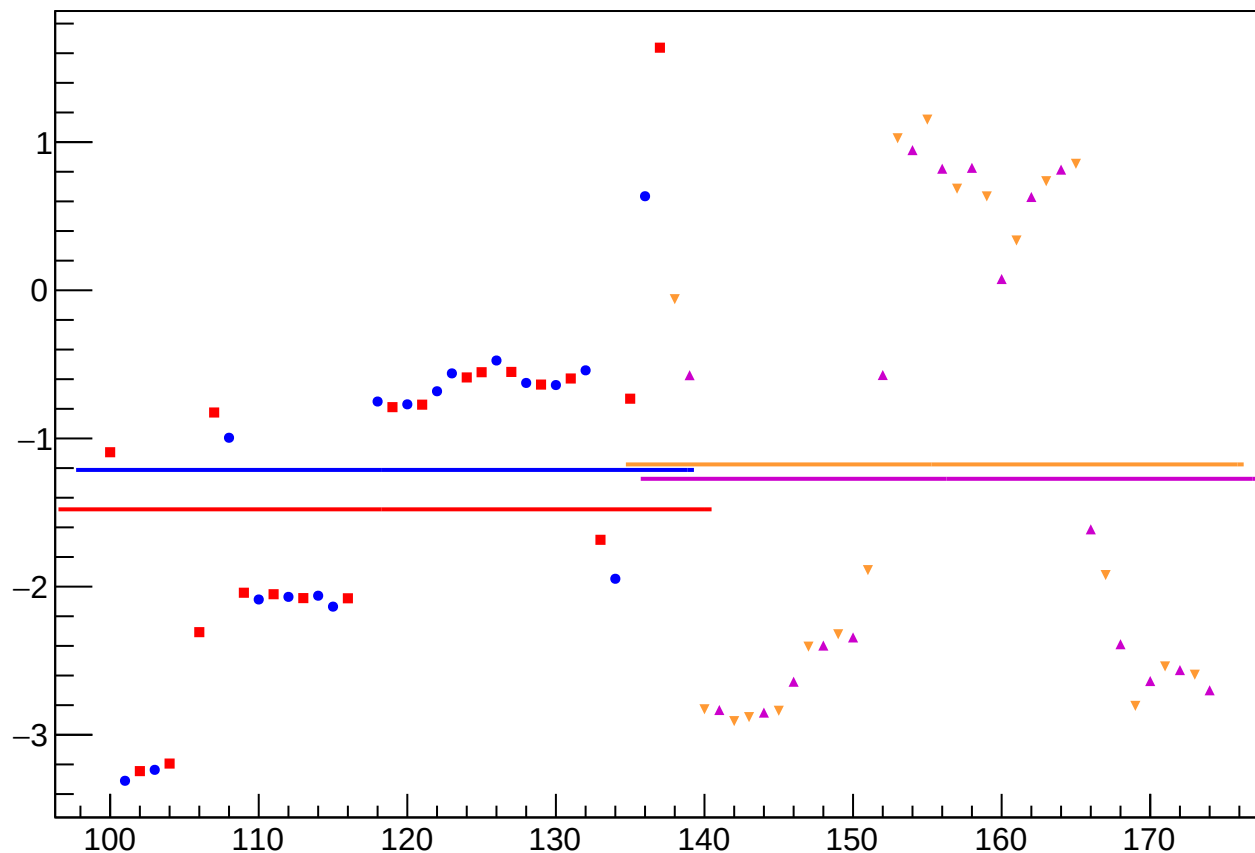
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF :1147099.8/34

Out: 0.003+/-0.000 χ^2/NDF :1404323.3/37

All: 0.003+/-0.000 χ^2/NDF : 2551817.2/72

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -1.175 $\pm$ 0.000 χ^2 /NDF: 6395704300.6/18

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -1.272 $\pm$ 0.000 χ^2 /NDF: 5498741569.5/17

Left: -1.223 $\pm$ 0.000 χ^2 /NDF: 11905959330.9/36

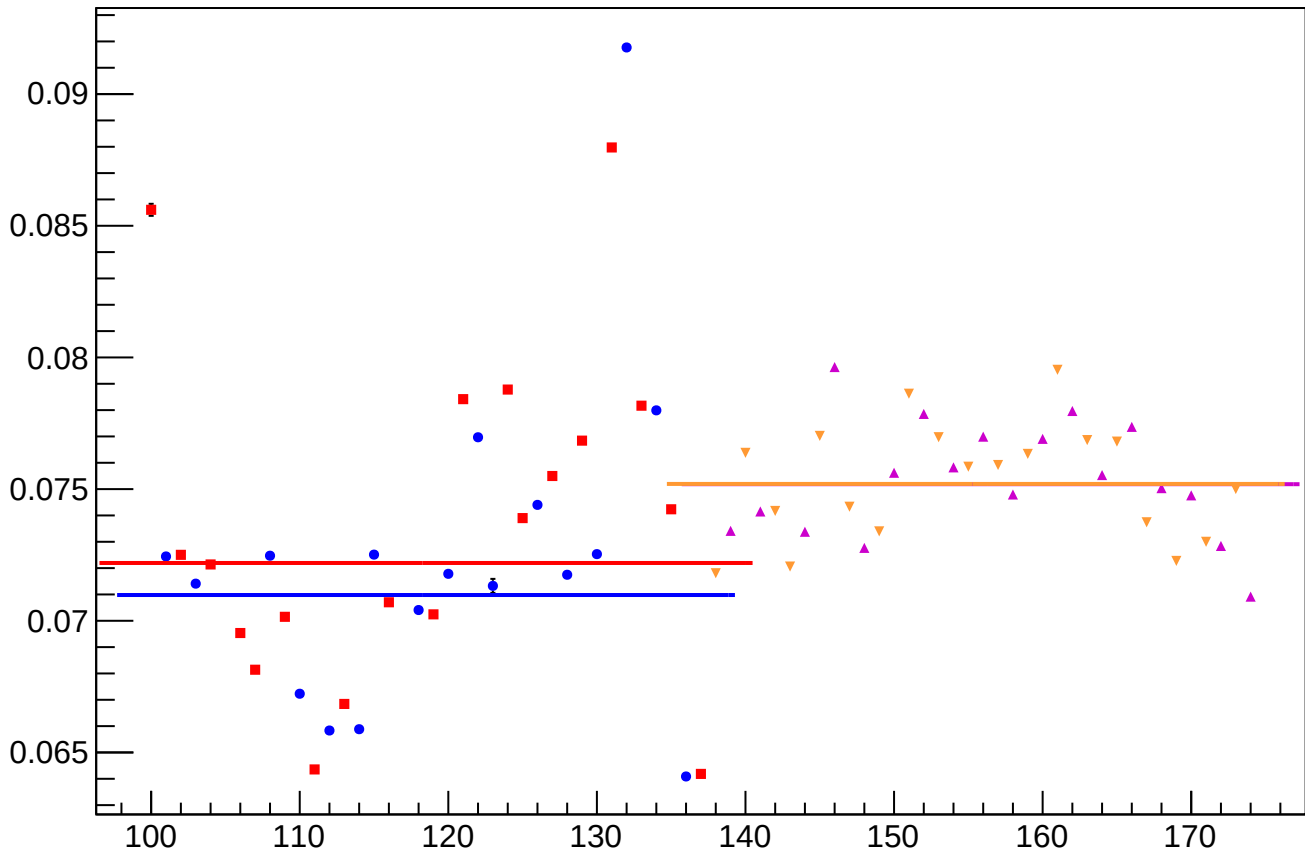
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.251 $\pm$ 0.000 χ^2 /NDF: 7494632786.9/34

Out: -1.282 $\pm$ 0.000 χ^2 /NDF: 8053626282.8/37

All: -1.267 $\pm$ 0.000 χ^2 /NDF: 15549987410.6/70

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 23115.2/18

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.075+/-0.000 χ^2/NDF : 21865.5/17

Left: 0.075+/-0.000 χ^2/NDF : 44980.9/36

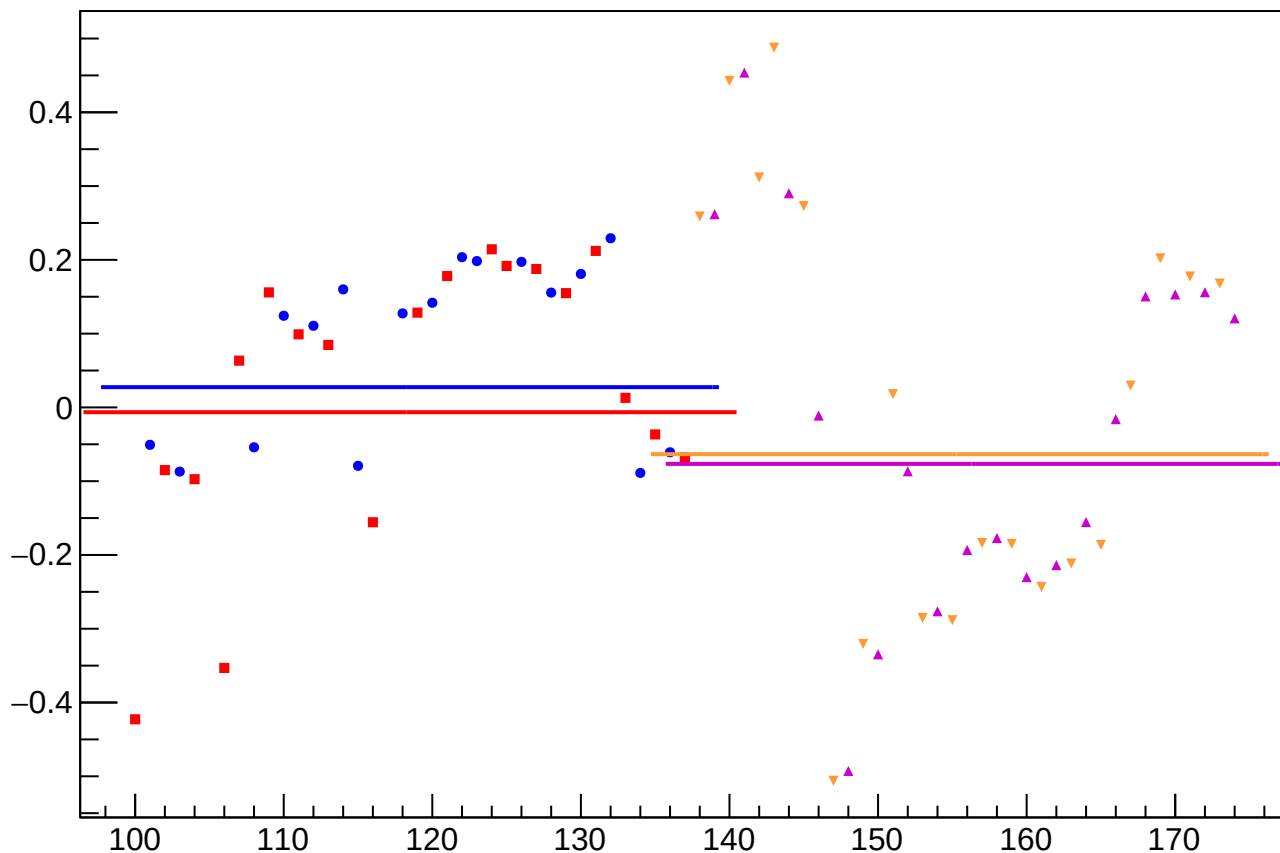
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 129449.7/34

Out: 0.074+/-0.000 χ^2/NDF : 111954.9/37

All: 0.074+/-0.000 χ^2/NDF : 242108.4/72

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.070+/-0.000

χ^2/NDF : 31862734386.2/36

Left Out: -0.063+/-0.000

χ^2/NDF : 18043537075.1/18

Right: 0.010+/-0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000

χ^2/NDF : 1199278894.0/18

In: -0.063+/-0.000

χ^2/NDF : 14767423632.0/34

Out: -0.056+/-0.000

χ^2/NDF : 19368045897.3/37

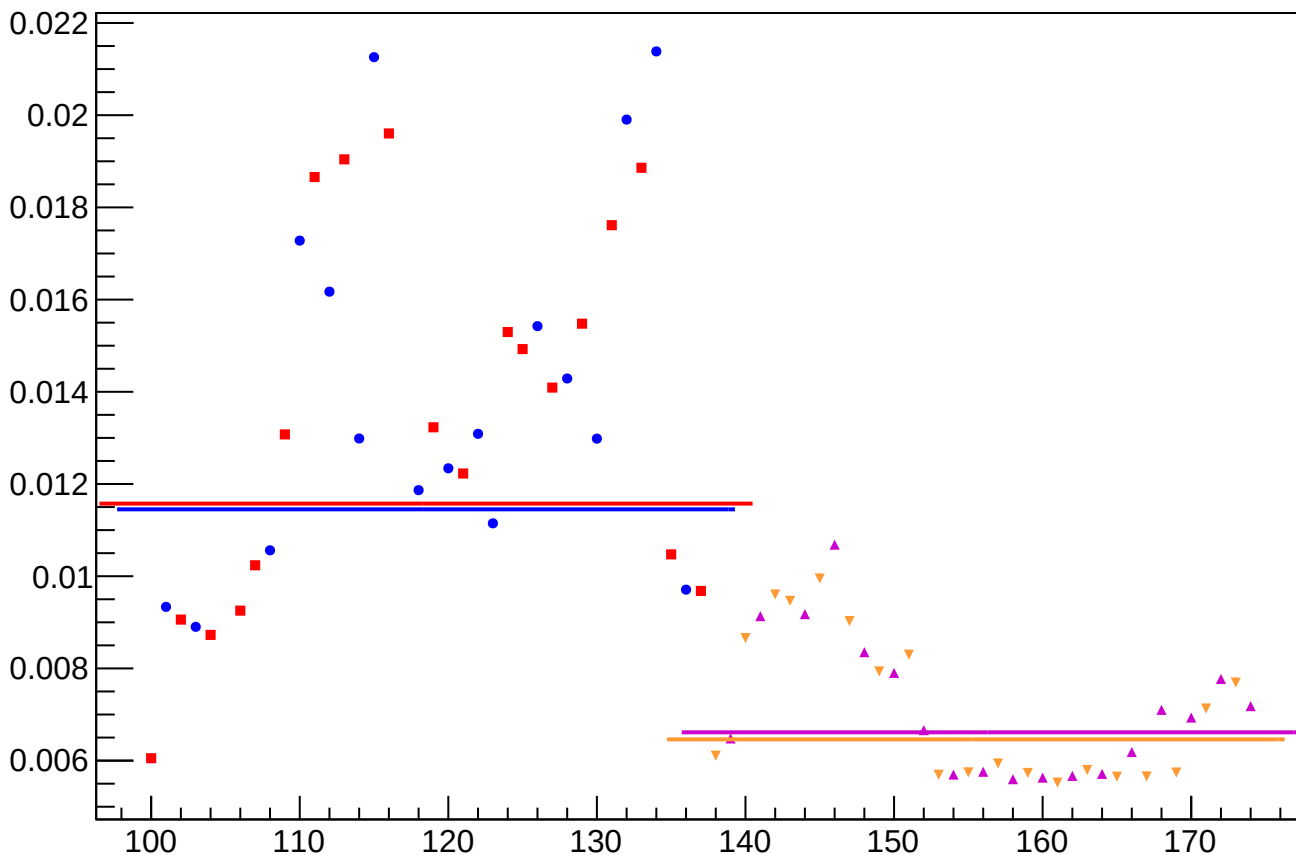
Left In: -0.077+/-0.000

χ^2/NDF : 13793139955.9/17

All: -0.059+/-0.000

χ^2/NDF : 34143073448.8/177

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 679628.0/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 978937.2/18

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 997161.1/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF: 837939.1/17

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 1823917.9/36

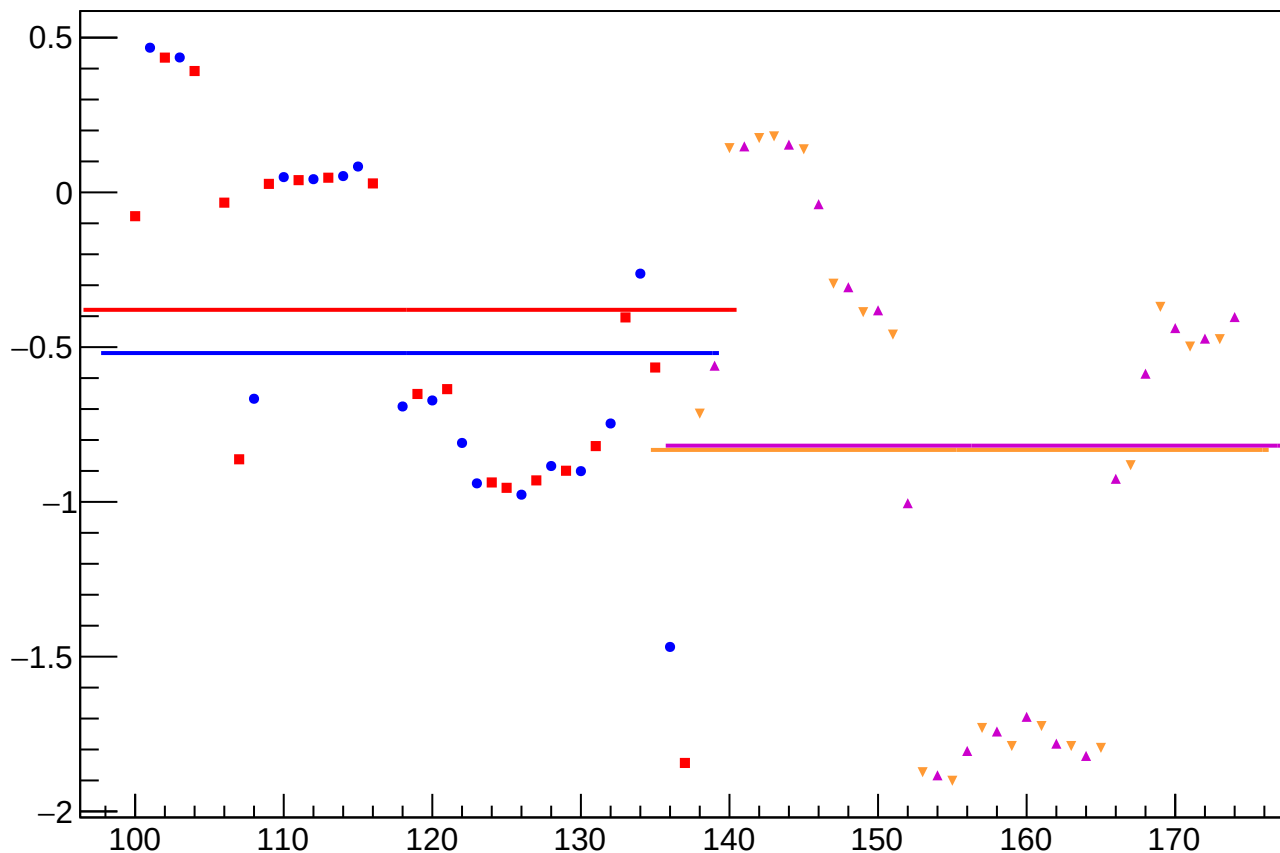
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1677468.5/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3299157.7/34

Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 4002793.5/37

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7309488.2/72

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 339383872.4/16$

Left Out: -0.832 ± 0.000 $\chi^2/\text{NDF}: 1064700725.7/18$

Right Out: -0.379 ± 0.000 $\chi^2/\text{NDF}: 268621179.0/18$

Left In: -0.818 ± 0.000 $\chi^2/\text{NDF}: 917797243.4/17$

Left: -0.825 ± 0.000 $\chi^2/\text{NDF}: 1982667586.2/36$

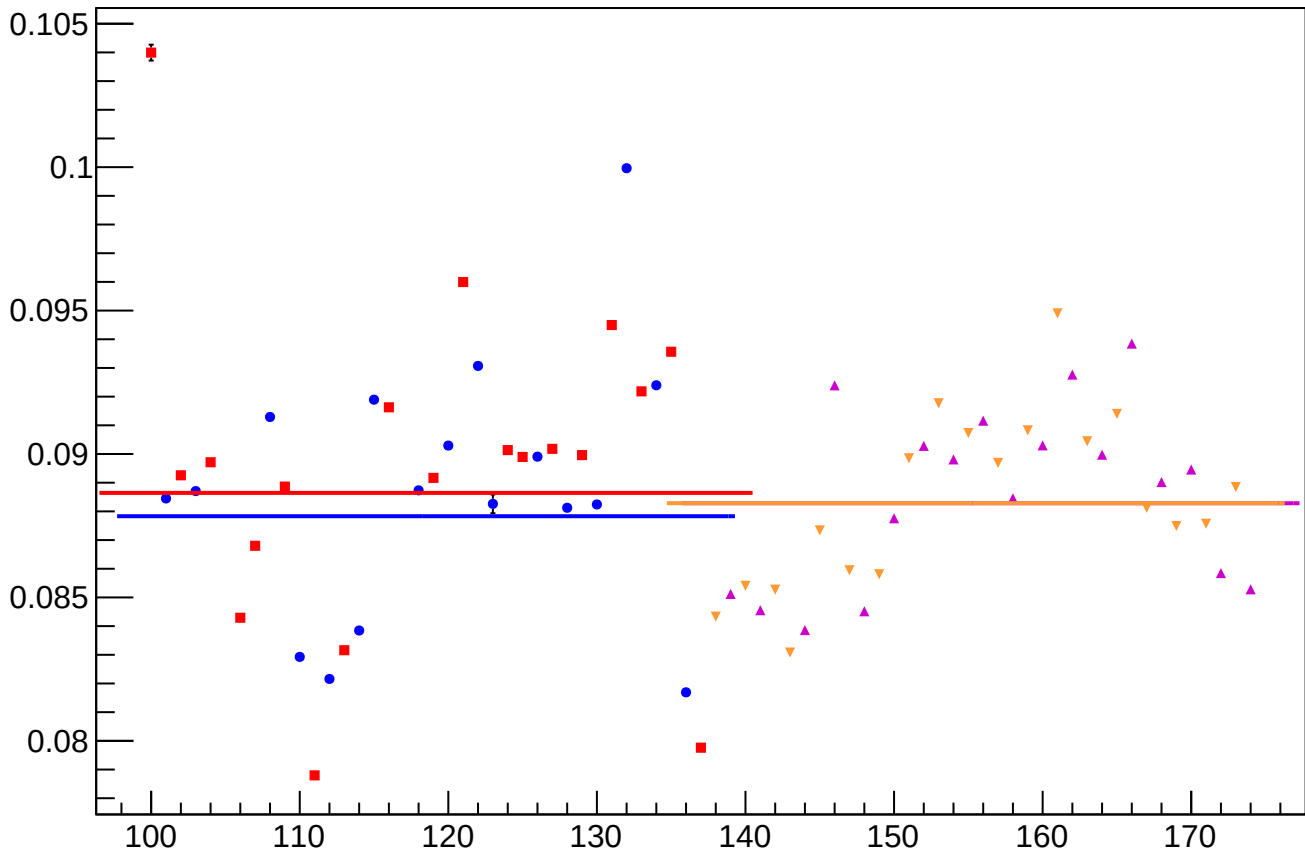
Right: -0.448 ± 0.000 $\chi^2/\text{NDF}: 616632603.2/35$

In: -0.720 ± 0.000 $\chi^2/\text{NDF}: 1309280286.4/34$

Out: -0.682 ± 0.000 $\chi^2/\text{NDF}: 1456753485.2/37$

All: -0.701 ± 0.000 $\chi^2/\text{NDF}: 2768018240.3/77$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34954.4/16

Left Out: 0.088 $\pm$ 0.000 χ^2 /NDF:29679.0/18

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 39722.9/18

Left In: 0.088 $\pm$ 0.000 χ^2 /NDF:31008.8/17

Left: 0.088 $\pm$ 0.000 χ^2 /NDF: 60687.9/36

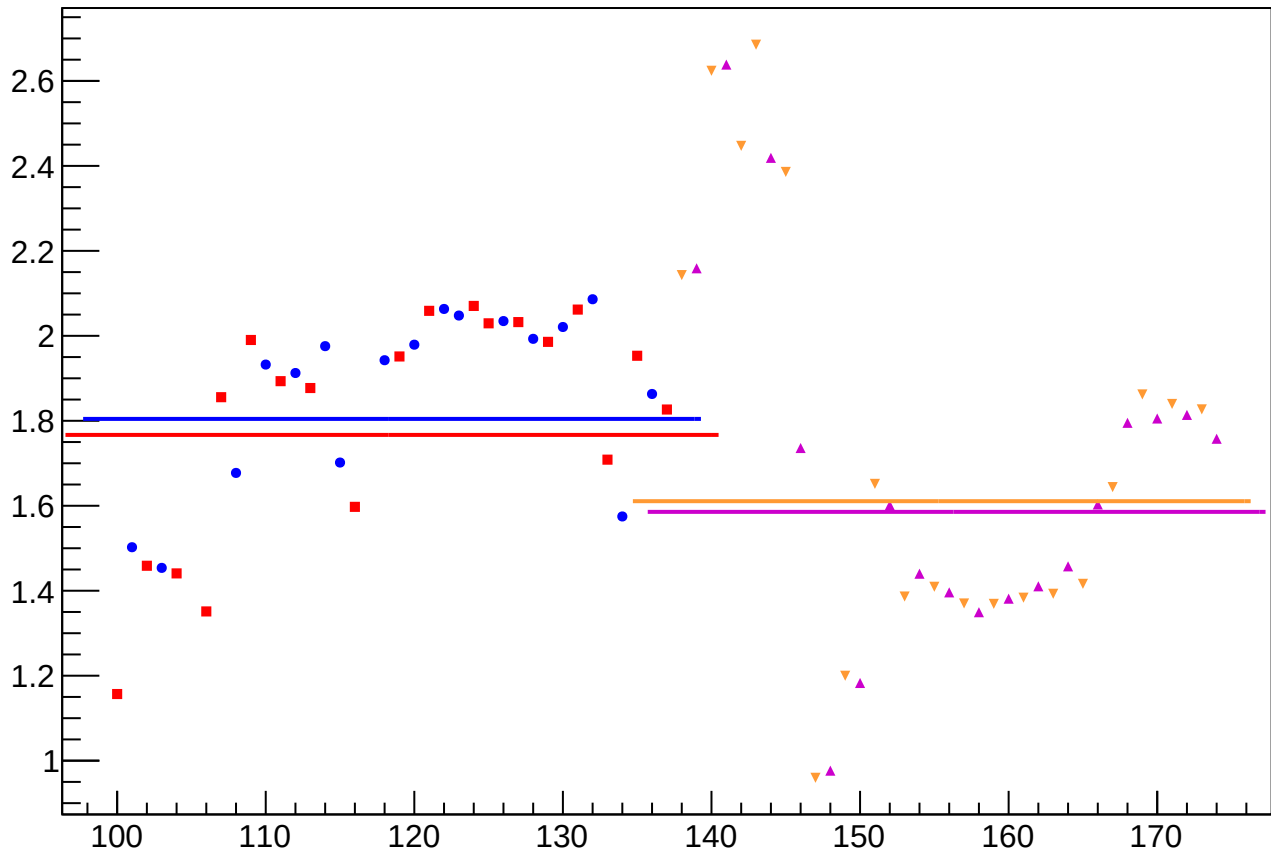
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 75262.5/35

In: 0.088 $\pm$ 0.000 χ^2 /NDF:66201.5/34

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:69557.7/37

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 135953.8/72

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.611 $\pm$ 0.000 χ^2 /NDF: 25098637901.3/18

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.586 $\pm$ 0.000 χ^2 /NDF: 19504743531.7/17

Left: 1.599 $\pm$ 0.000 χ^2 /NDF: 44655555689.0/36

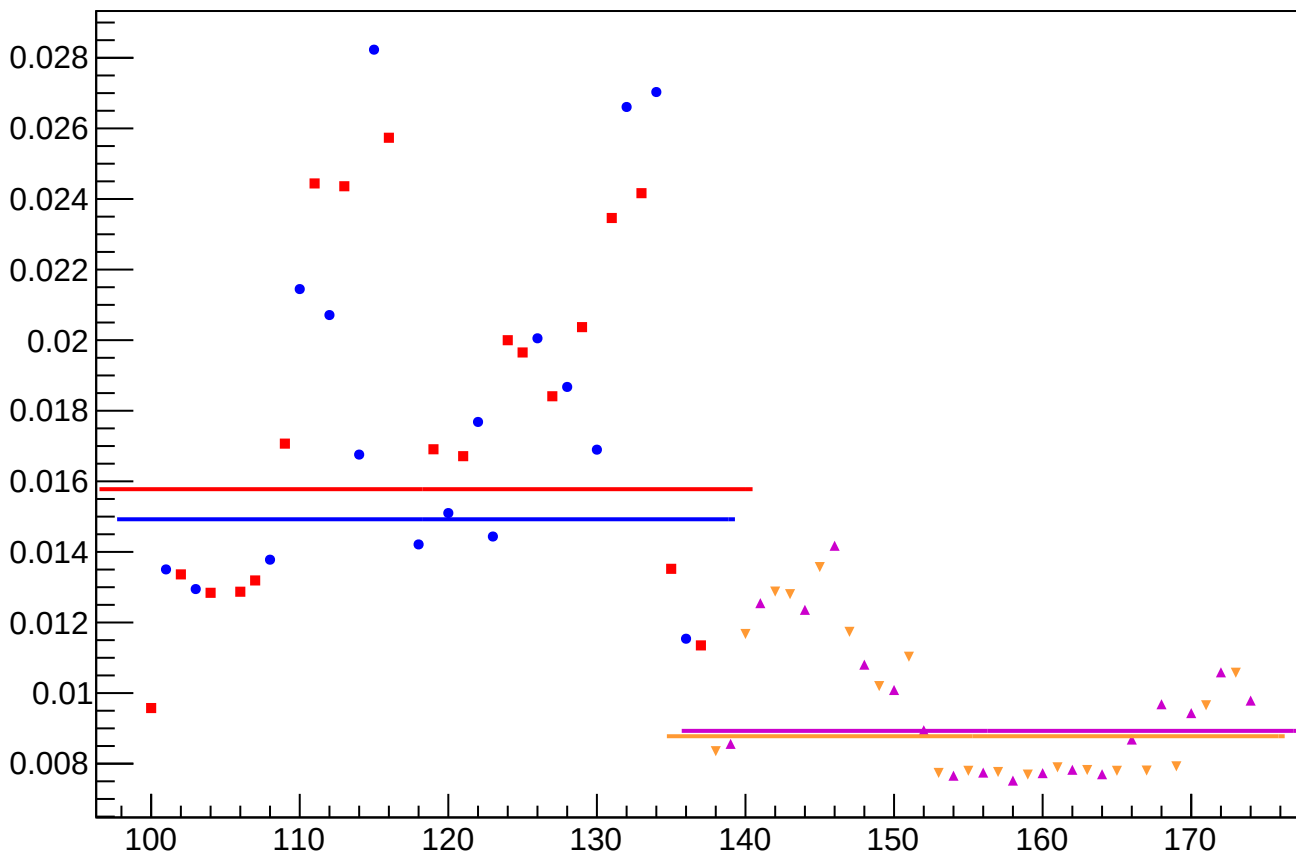
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.616 $\pm$ 0.000 χ^2 /NDF: 21726782565.0/34

Out: 1.630 $\pm$ 0.000 χ^2 /NDF: 27324185049.4/37

All: 1.623 $\pm$ 0.000 χ^2 /NDF: 49070477363.5/71

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 899627.5/18

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 791725.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1695174.6/36

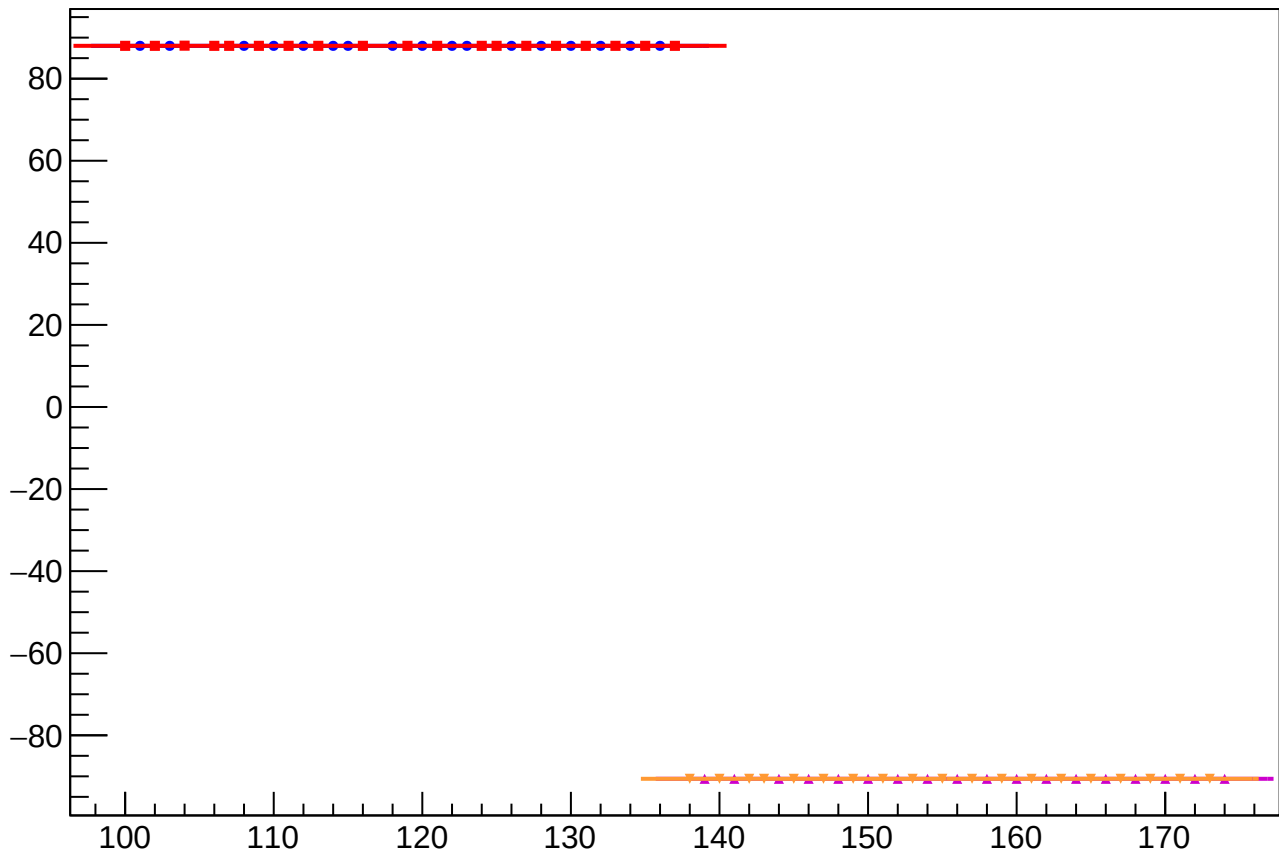
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3034945.7/34

Out: 0.010+/-0.000 χ^2/NDF : 3764559.5/37

All: 0.010+/-0.000 χ^2/NDF : 6801733.8/72

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2 /NDF: 1852068.7/16

Left Out: -90.599+/-0.000 χ^2 /NDF: 5502891.7/18

Right Out: 88.004+/-0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2 /NDF: 5440893.6/17

Left: -90.599+/-0.000 χ^2 /NDF: 10968019.1/36

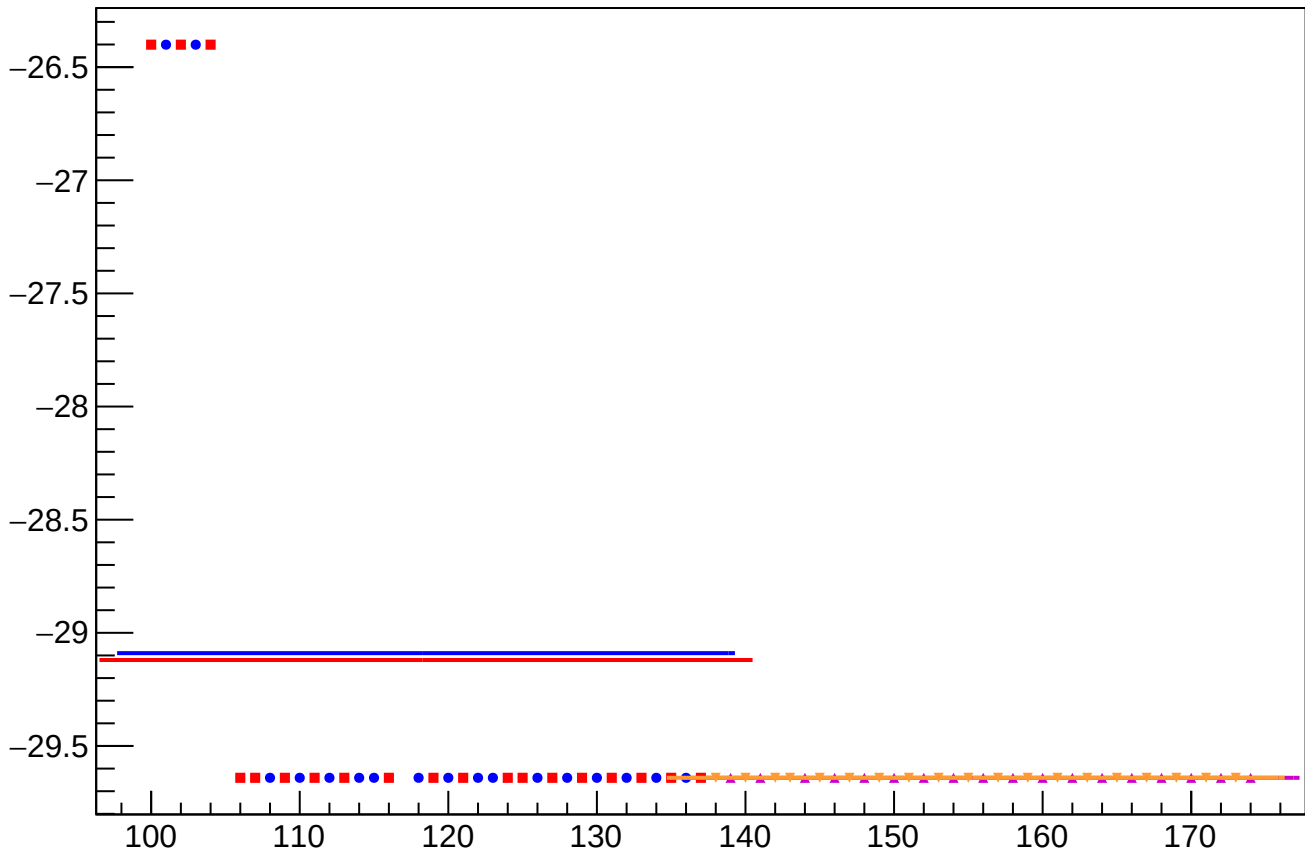
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -32.408+/-0.000 χ^2 /NDF: 14924411534572750

Out: -31.664+/-0.000 χ^2 /NDF: 1543123398937454

All: -32.031+/-0.000 χ^2 /NDF: 303562428629

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.090+/-0.000

χ^2/NDF : 1028099246109521929793835198578688.0/16

Left Out: -29.641+/-0.000

χ^2/NDF : 258670.6/18

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 155348.8/17

Left: -29.641+/-0.000 χ^2/NDF : 627680.8/36

Right: -29.105+/-0.000

χ^2/NDF : 205050154576273.0

In: -29.461+/-0.000

χ^2/NDF : 11700930523943535

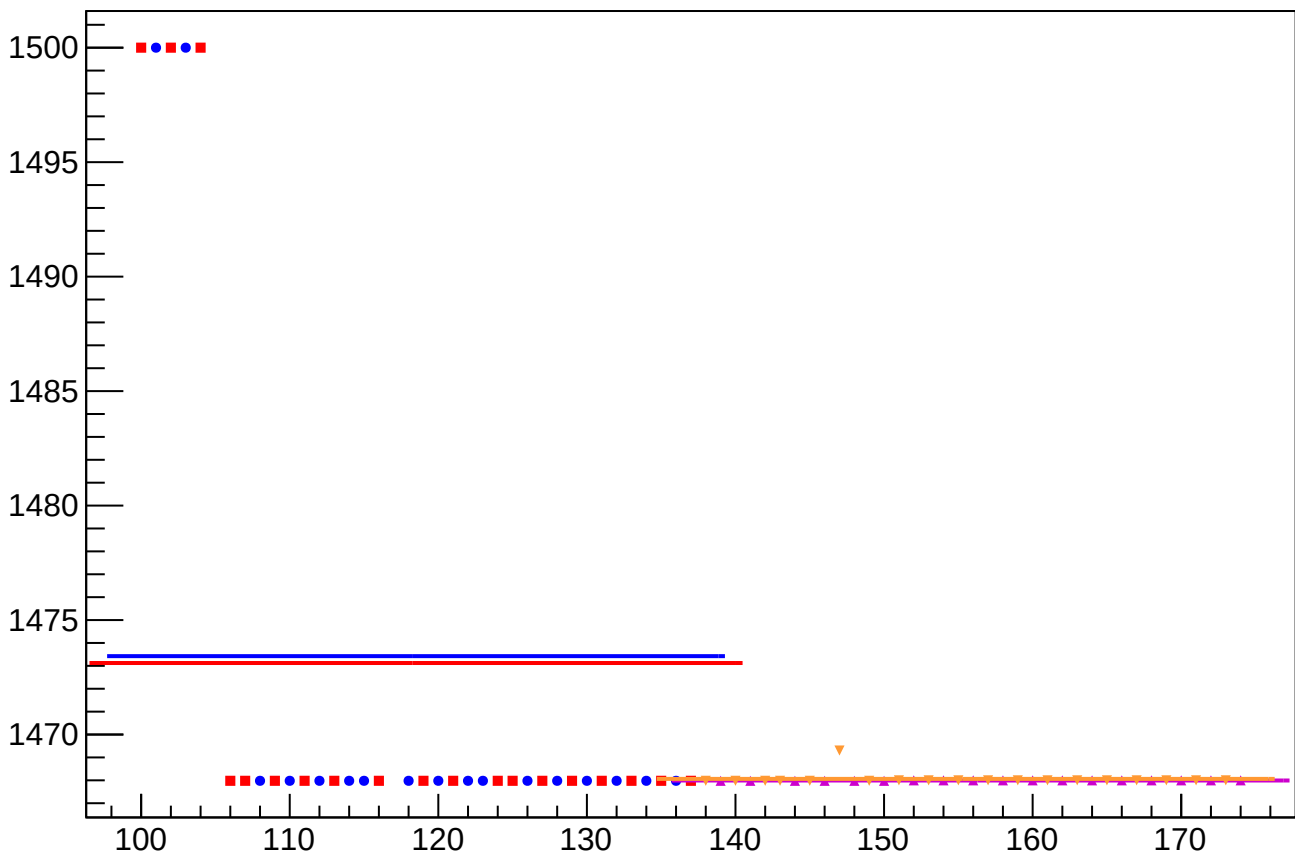
Out: -29.469+/-0.000

χ^2/NDF : 1153162319561220

All: -29.465+/-0.000

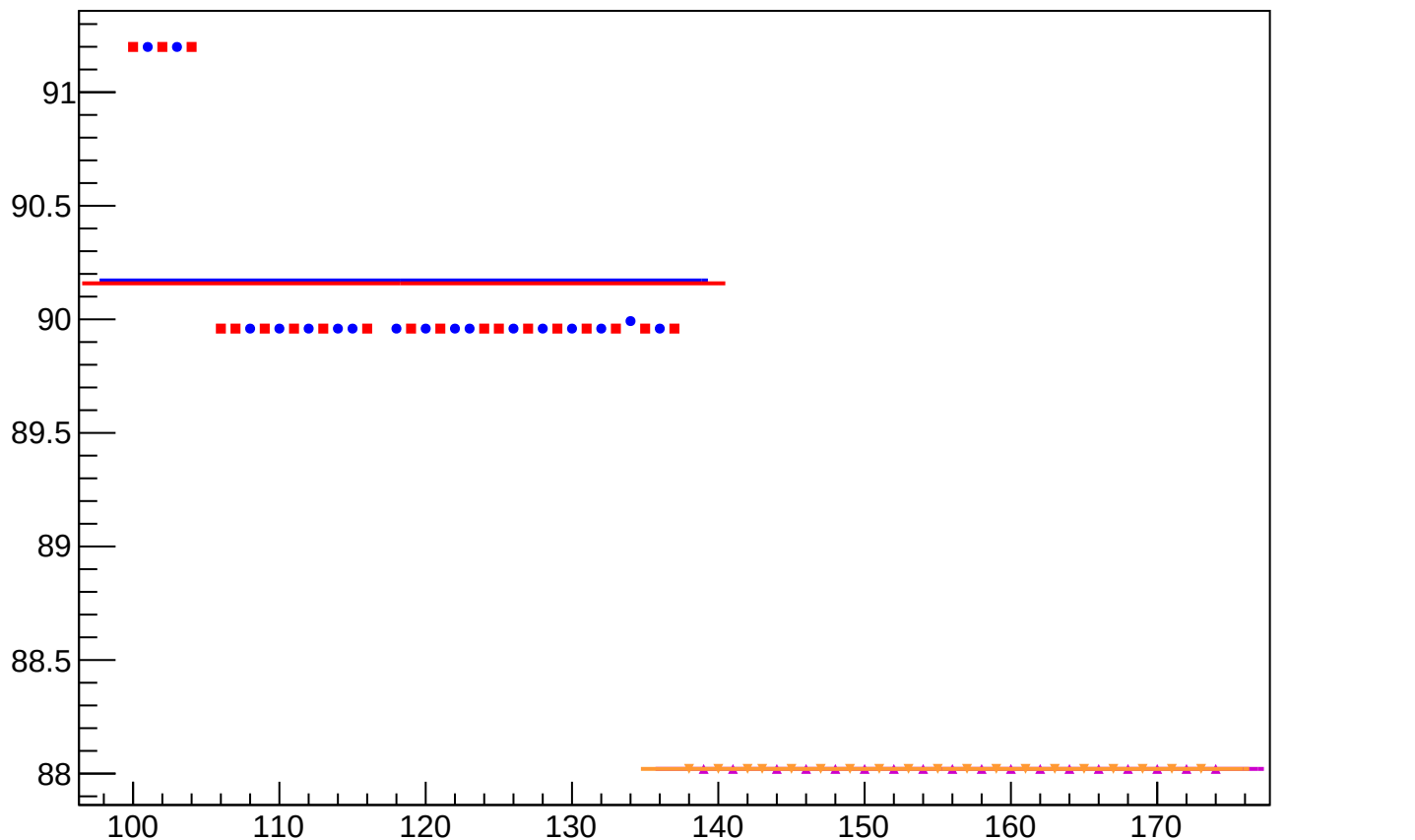
χ^2/NDF : 232331969096

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.063+/-0.000 χ^2/NDF : 126569281055902355463298139291648.0/18
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.992+/-0.000 χ^2/NDF : 130483286879215846025127264256.0/17
 All: 1469.747+/-0.000 χ^2/NDF : 22657784802

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 4417621.1/18

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5327600.5/17

Left: 88.021+/-0.000 χ^2/NDF : 10190719.7/36

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

In: 88.721+/-0.000

χ^2/NDF : 231395558519439172

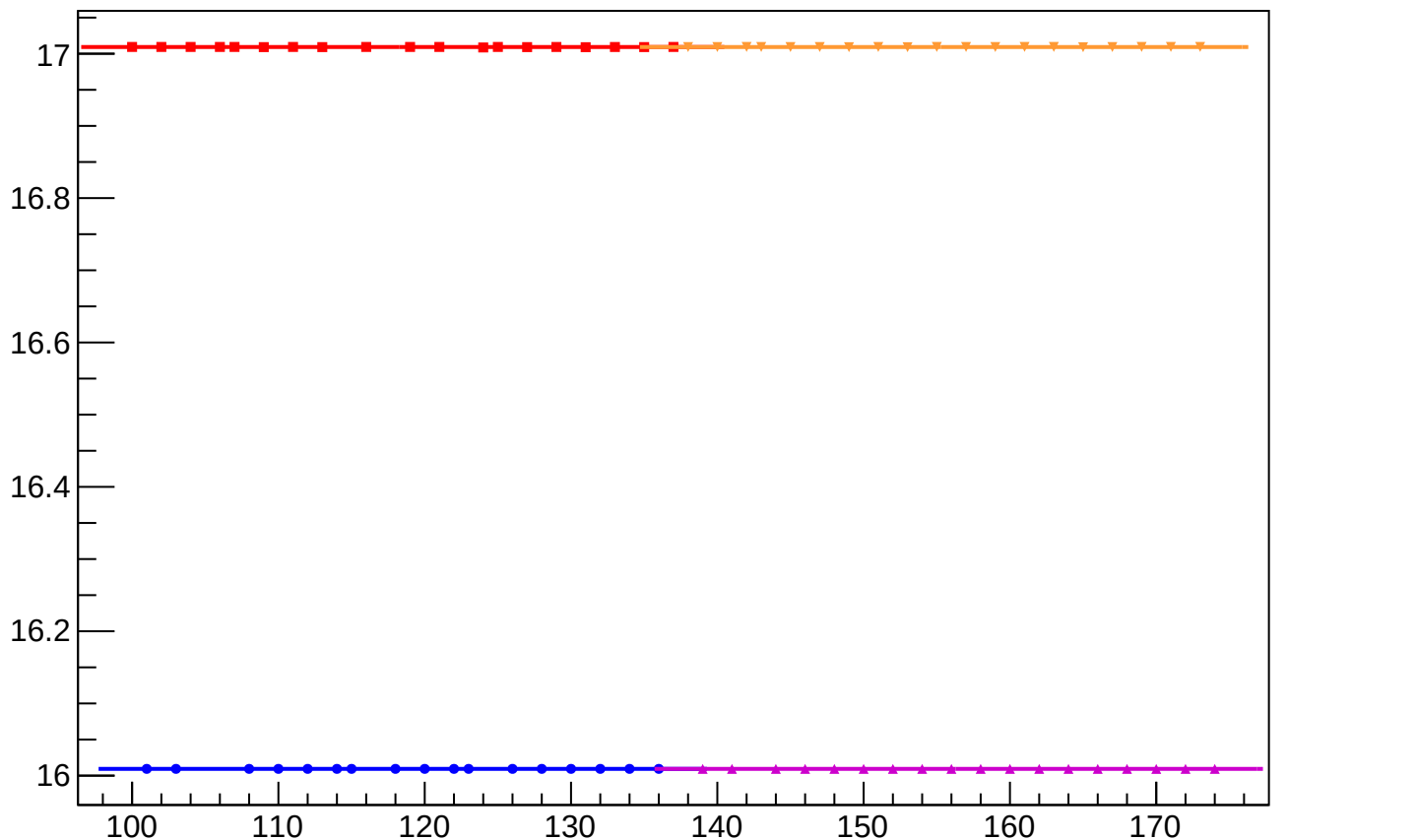
Out: 88.726+/-0.000

χ^2/NDF : 23605861305784302

All: 88.724+/-0.000

χ^2/NDF : 4674566422805

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009+/-0.000 χ^2/NDF : 21839043527388586531880960.0/18

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 126455126442414377533440.0/17

Left: 16.512+/-0.000 χ^2/NDF : 67031858847415683

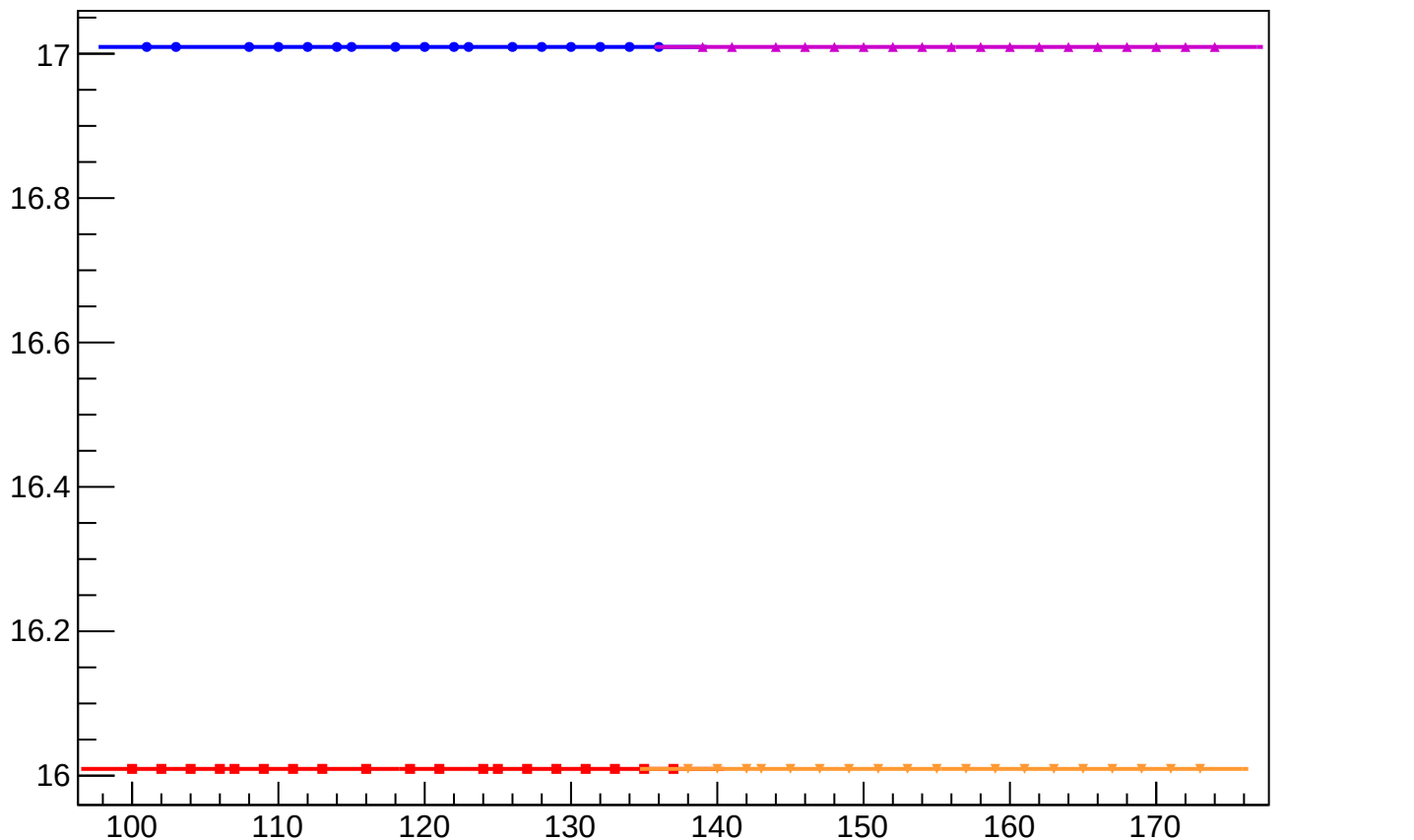
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 128883087247605646

Out: 17.009+/-0.000 χ^2/NDF : 34841572782299500

All: 16.510+/-0.000 χ^2/NDF : 9992747034973

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 54690.1/18

Right Out: 16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: 17.009+/-0.000 χ^2/NDF : 113587825185865722757120.0/17

Left: 16.501+/-0.000 χ^2/NDF : 71203613340948104

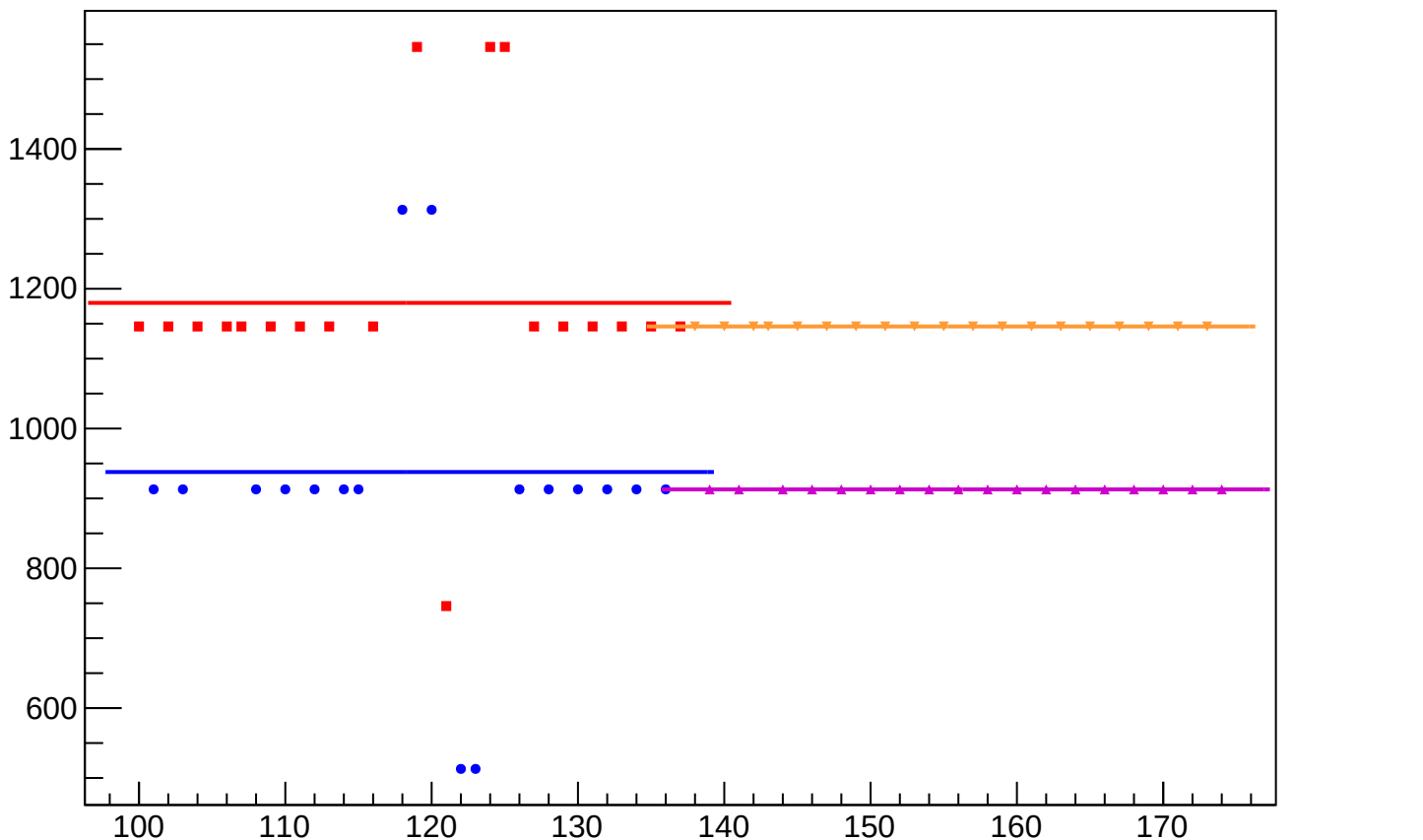
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 115827275049145194

Out: 16.009+/-0.000 χ^2/NDF : 288622.1/37

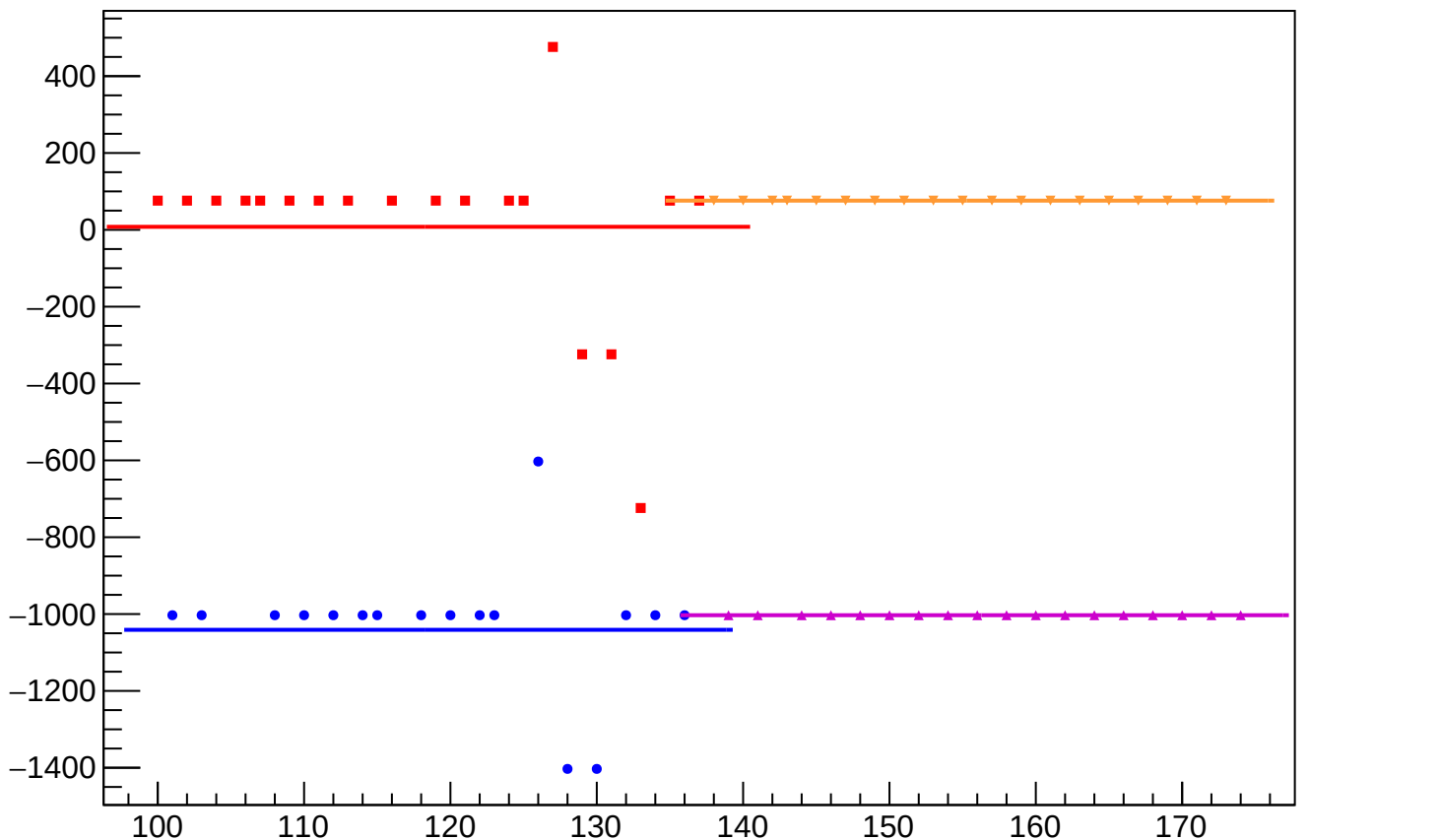
All: 16.497+/-0.000 χ^2/NDF : 1055881324065

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 4459600598991621576491794432.0/18
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 23594508916464591692795740160.0/17
 All: 1040.702+/-0.000 χ^2/NDF : 10327102609

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10491776733935154061377536000.0/18
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 2219370687986647186473484288.0/17
 All: -473.751+/-0.000 χ^2/NDF : 13026217094