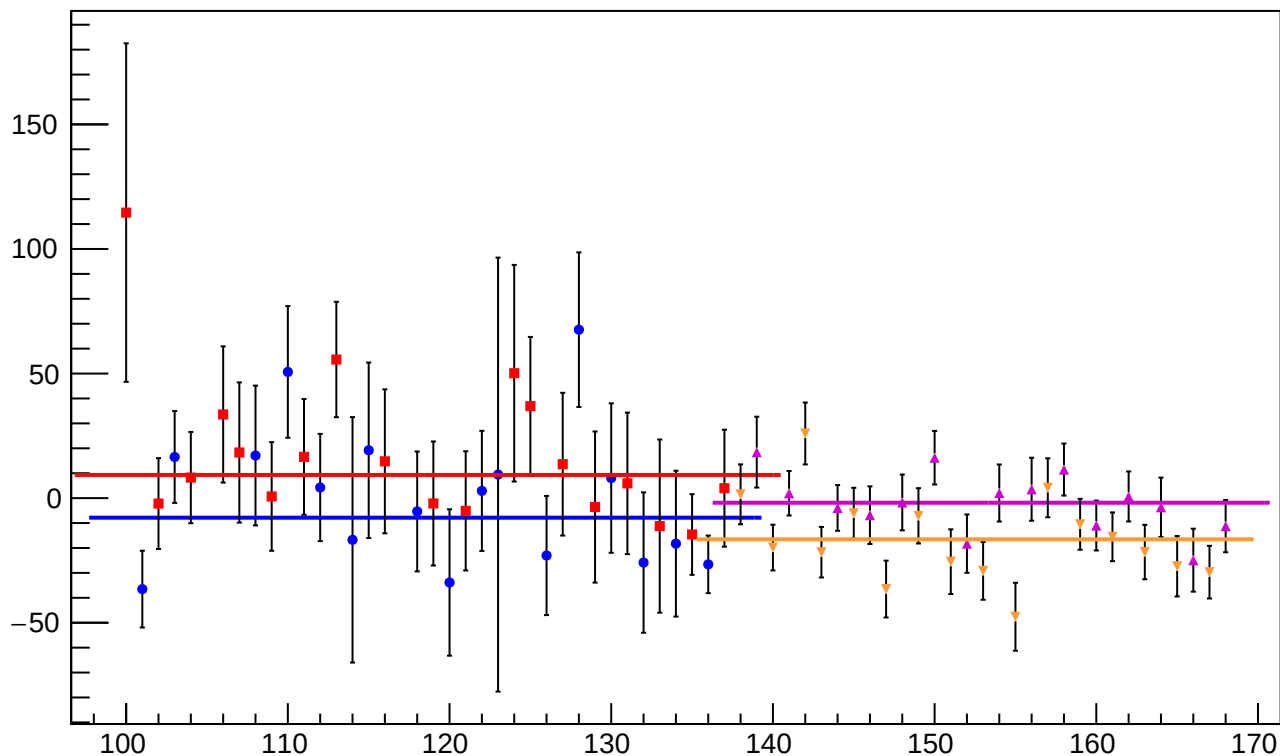


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -16.519 ± 2.769

$\chi^2/\text{NDF}: 32.0/15$

Right Out: 9.309 ± 5.677

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

Left In: -1.842 ± 2.815

$\chi^2/\text{NDF}: 14.2/14$

Left: -9.302 ± 1.974

$\chi^2/\text{NDF}: 60.1/30$

Right: 0.629 ± 3.990

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

In: -3.049 ± 2.516

$\chi^2/\text{NDF}: 37.8/31$

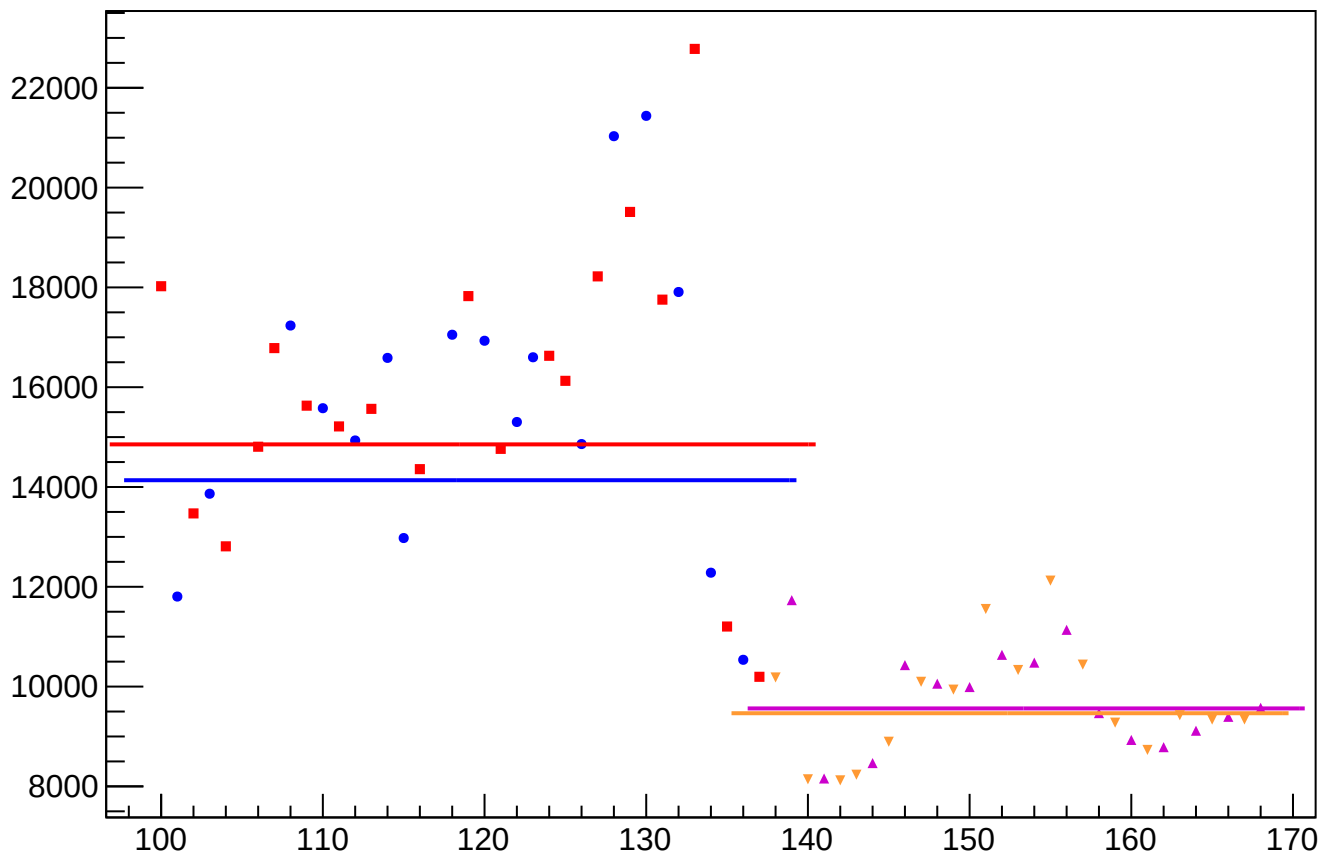
Out: -11.557 ± 2.489

$\chi^2/\text{NDF}: 62.0/34$

All: -7.349 ± 1.769

$\chi^2/\text{NDF}: 105.5/66$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9465.973 $\pm$ 1.958 χ^2 /NDF:282746.6/15

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

Left In: 9562.192 $\pm$ 1.990 χ^2 /NDF:227045.7/14

Left: 9513.286 $\pm$ 1.396 χ^2 /NDF: 510980.1/30

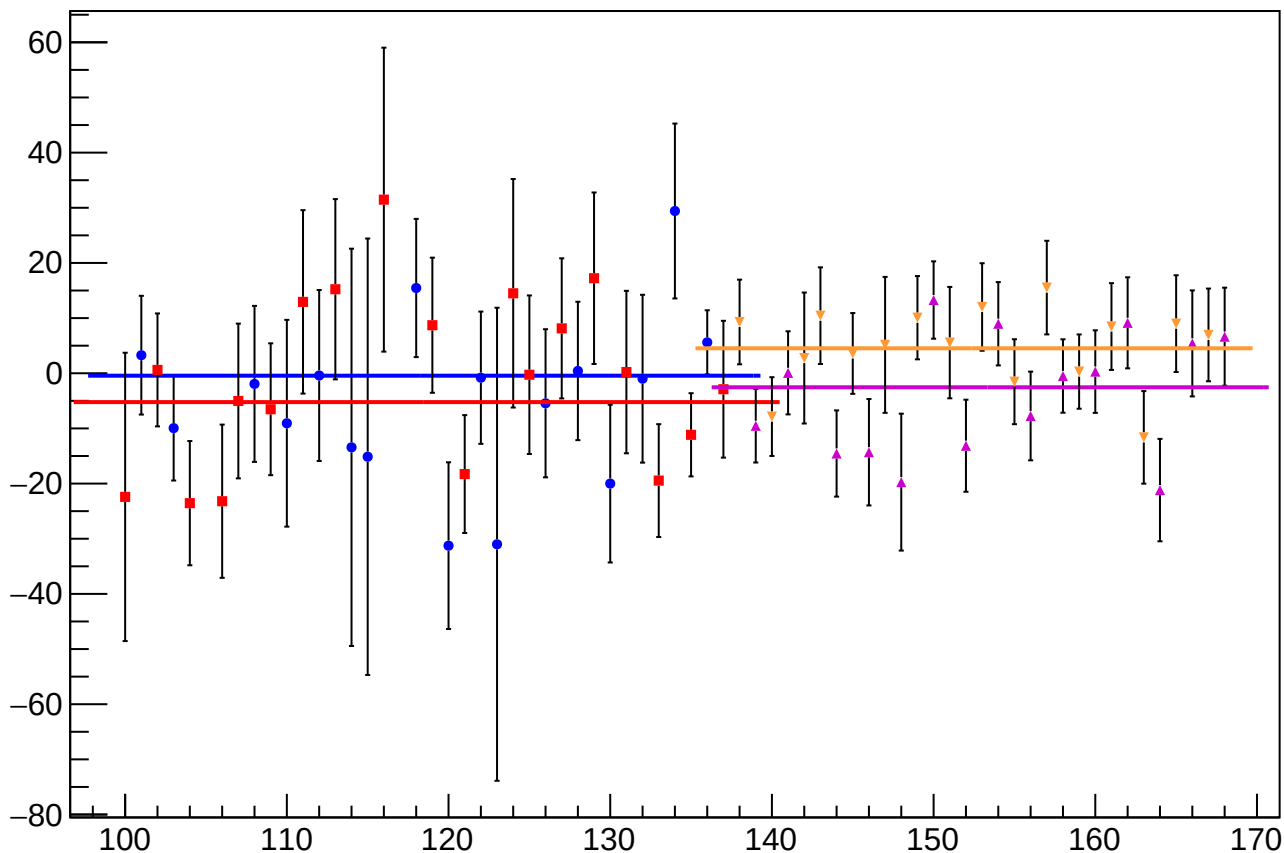
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10482.526 $\pm$ 1.779 χ^2 /NDF:1886668.7/31

Out: 10501.221 $\pm$ 1.760 χ^2 /NDF:2210097.2/34

All: 10491.976 $\pm$ 1.251 χ^2 /NDF: 4096821.8/6

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 4.528 ± 2.061 χ^2/NDF : 12.3/15

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

Left In: -2.544 ± 2.078 χ^2/NDF : 24.5/14

Left: 1.021 ± 1.463 χ^2/NDF : 42.6/30

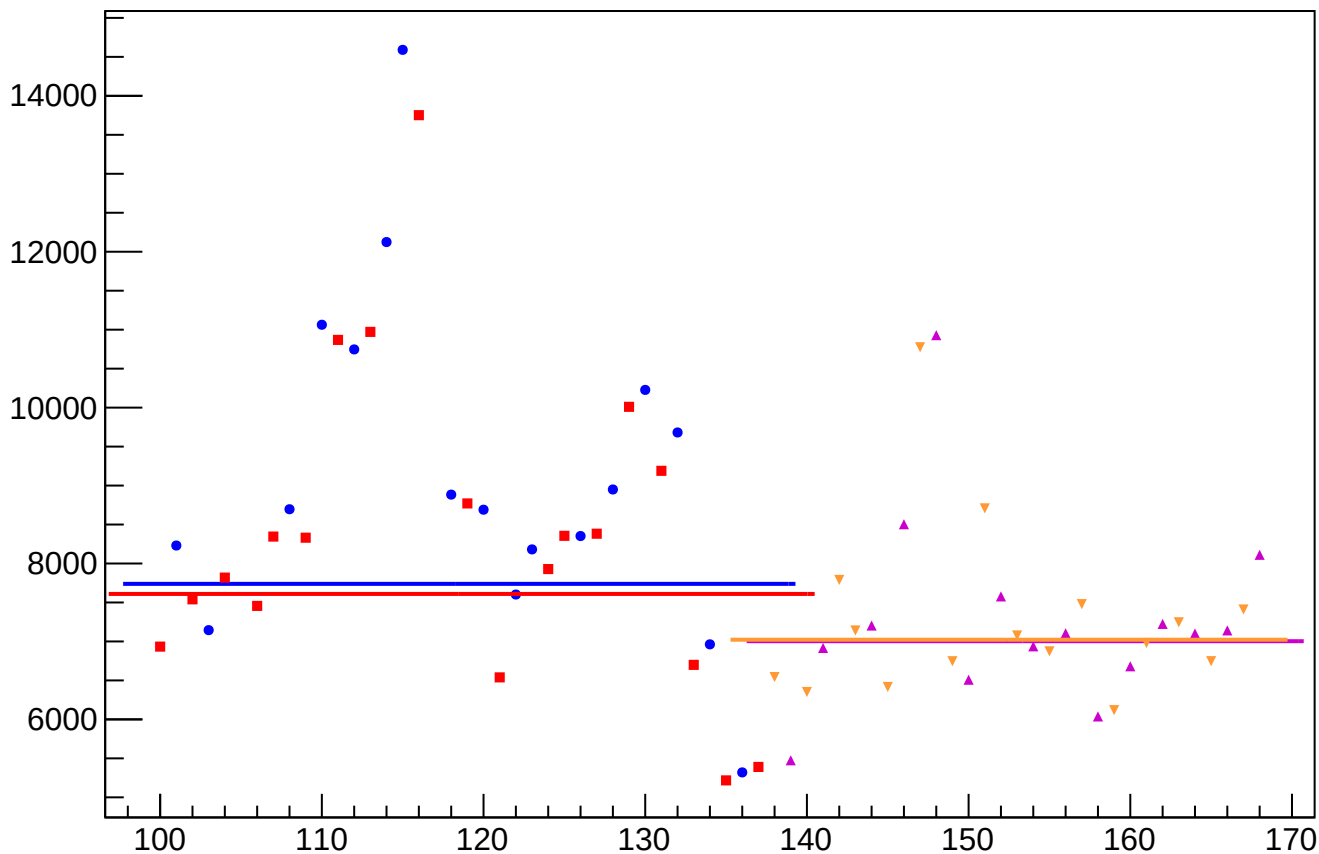
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -1.884 ± 1.721 χ^2/NDF : 39.3/31

Out: 1.308 ± 1.687 χ^2/NDF : 39.1/34

All: -0.256 ± 1.205 χ^2/NDF : 80.1/66

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886 $\pm$ 2.172 χ^2 /NDF: 740836.7/16

Left Out: 7022.230 $\pm$ 1.457 χ^2 /NDF: 341995.5/15

Right Out: 7609.531 $\pm$ 2.076 χ^2 /NDF: 679180.7/18

Left In: 7003.157 $\pm$ 1.469 χ^2 /NDF: 454264.0/14

Left: 7012.773 $\pm$ 1.035 χ^2 /NDF: 796344.5/30

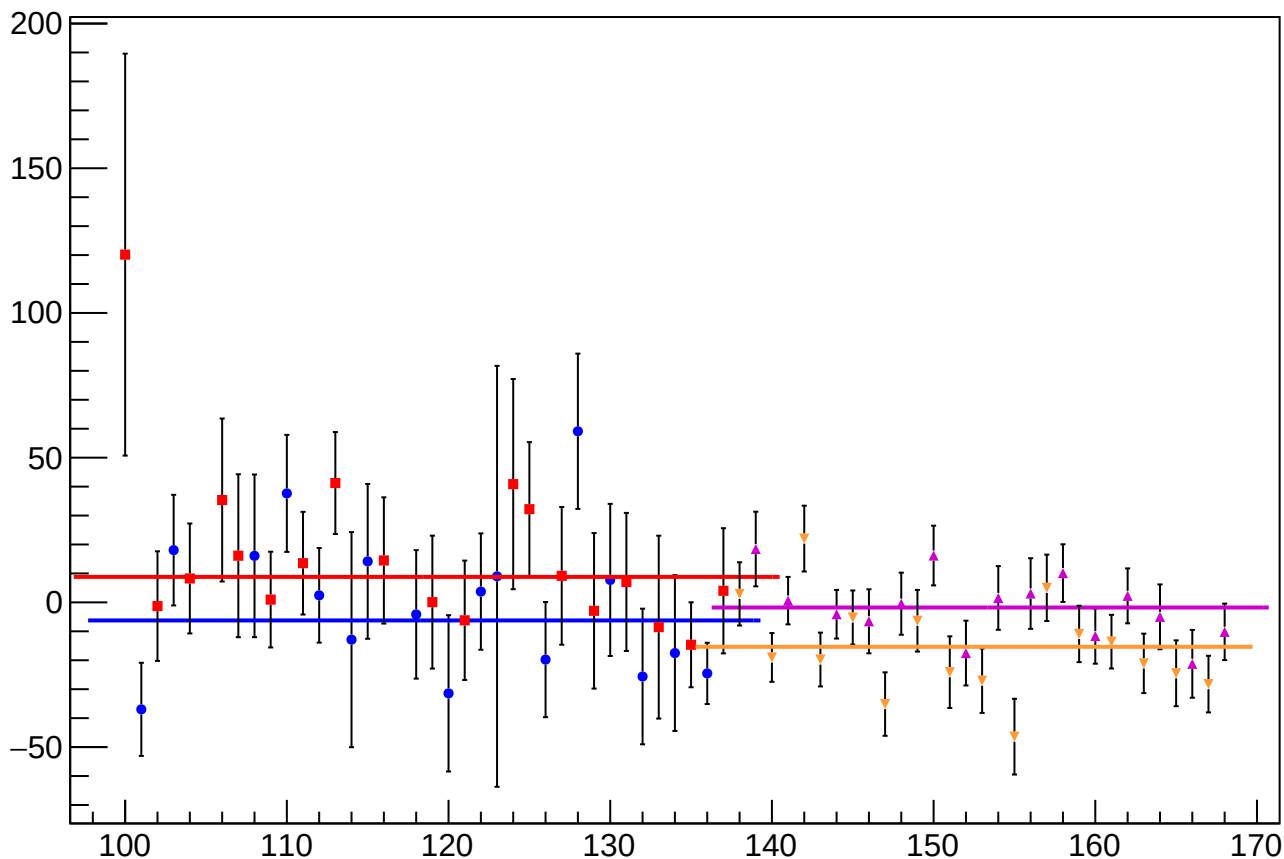
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7234.178 $\pm$ 1.217 χ^2 /NDF: 1273844.6/31

Out: 7216.058 $\pm$ 1.193 χ^2 /NDF: 1074798.6/34

All: 7224.936 $\pm$ 0.852 χ^2 /NDF: 2348756.3/66

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 ± 5.017 χ^2/NDF : 23.2/16

Left Out: -15.351 ± 2.597 χ^2/NDF : 32.5/15

Right Out: 8.802 ± 4.999 χ^2/NDF : 13.1/18

Left In: -1.774 ± 2.652 χ^2/NDF : 14.3/14

Left: -8.704 ± 1.855 χ^2/NDF : 60.2/30

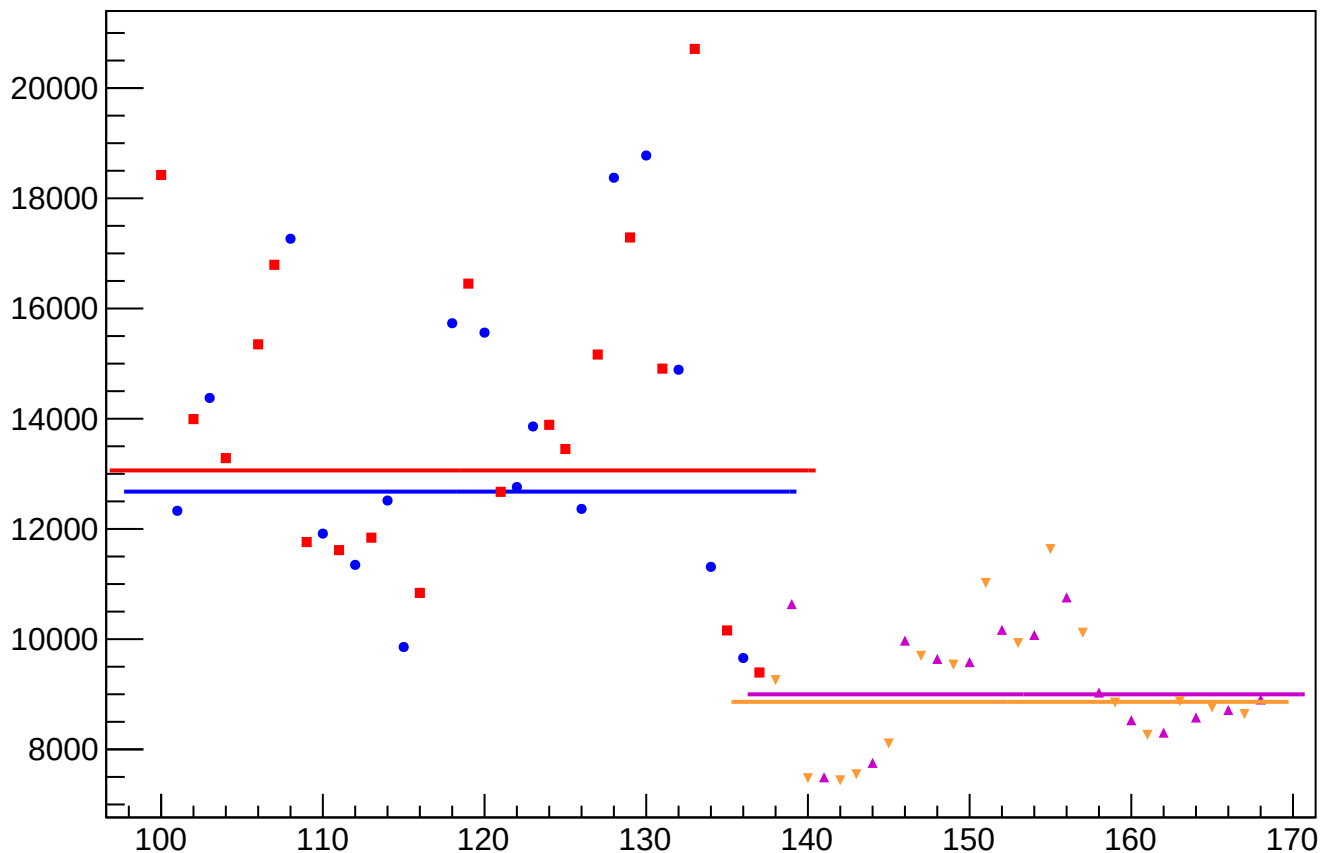
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: -2.750 ± 2.344 χ^2/NDF : 38.2/31

Out: -10.218 ± 2.305 χ^2/NDF : 64.0/34

All: -6.548 ± 1.643 χ^2/NDF : 107.3/66

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8862.445+/-1.836 χ^2/NDF : 363117.0/15

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

Left In: 8998.786+/-1.875 χ^2/NDF : 275168.9/14

Left: 8929.193+/-1.312 χ^2/NDF : 640984.8/30

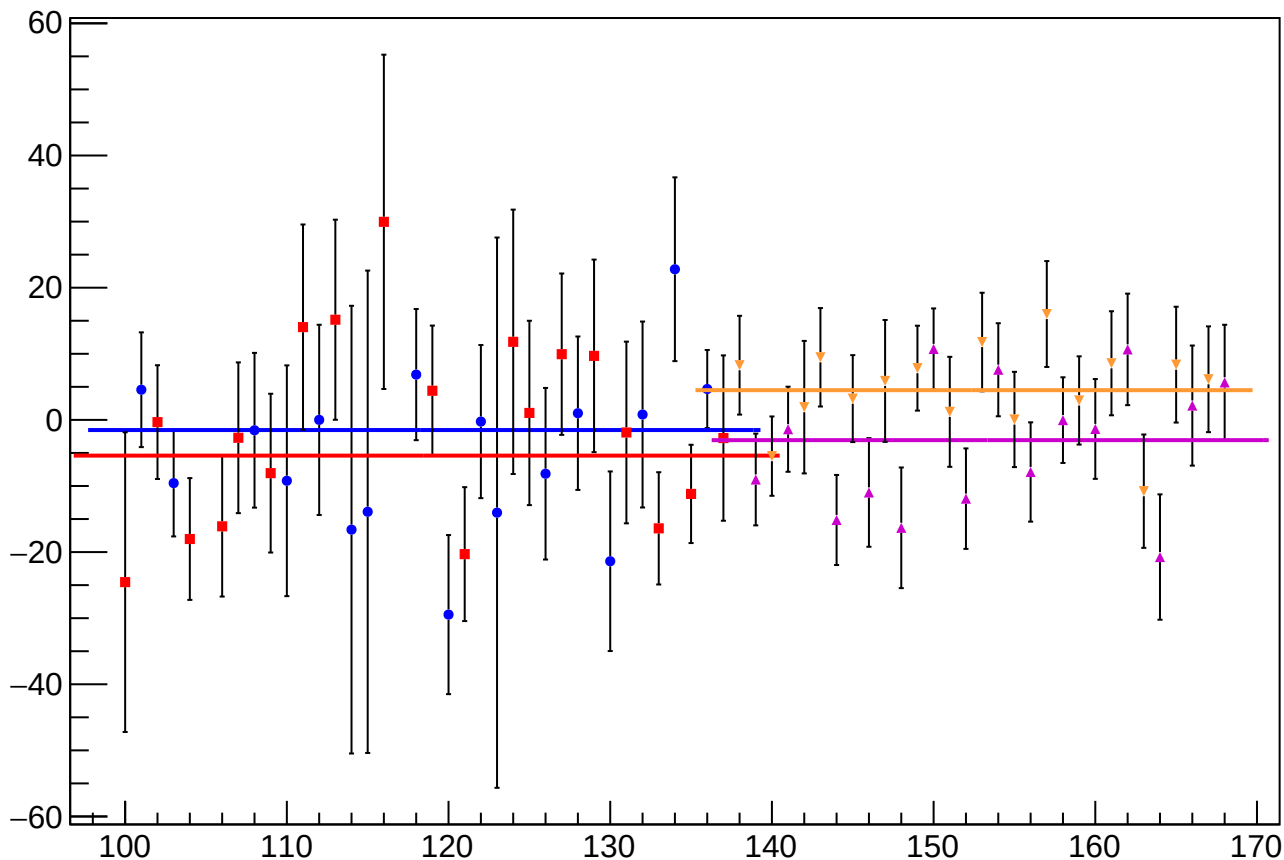
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9801.959+/-1.658 χ^2/NDF : 1669203.9/31

Out: 9754.796+/-1.630 χ^2/NDF : 1971868.0/34

All: 9777.973+/-1.162 χ^2/NDF : 3641483.5/66

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 $\pm$ 2.790 χ^2/NDF : 14.8/16

Left Out: 4.494 $\pm$ 1.887 χ^2/NDF : 11.2/15

Right Out: -5.405 $\pm$ 2.640 χ^2/NDF : 18.6/18

Left In: -3.065 $\pm$ 1.936 χ^2/NDF : 23.8/14

Left: 0.811 $\pm$ 1.351 χ^2/NDF : 42.8/30

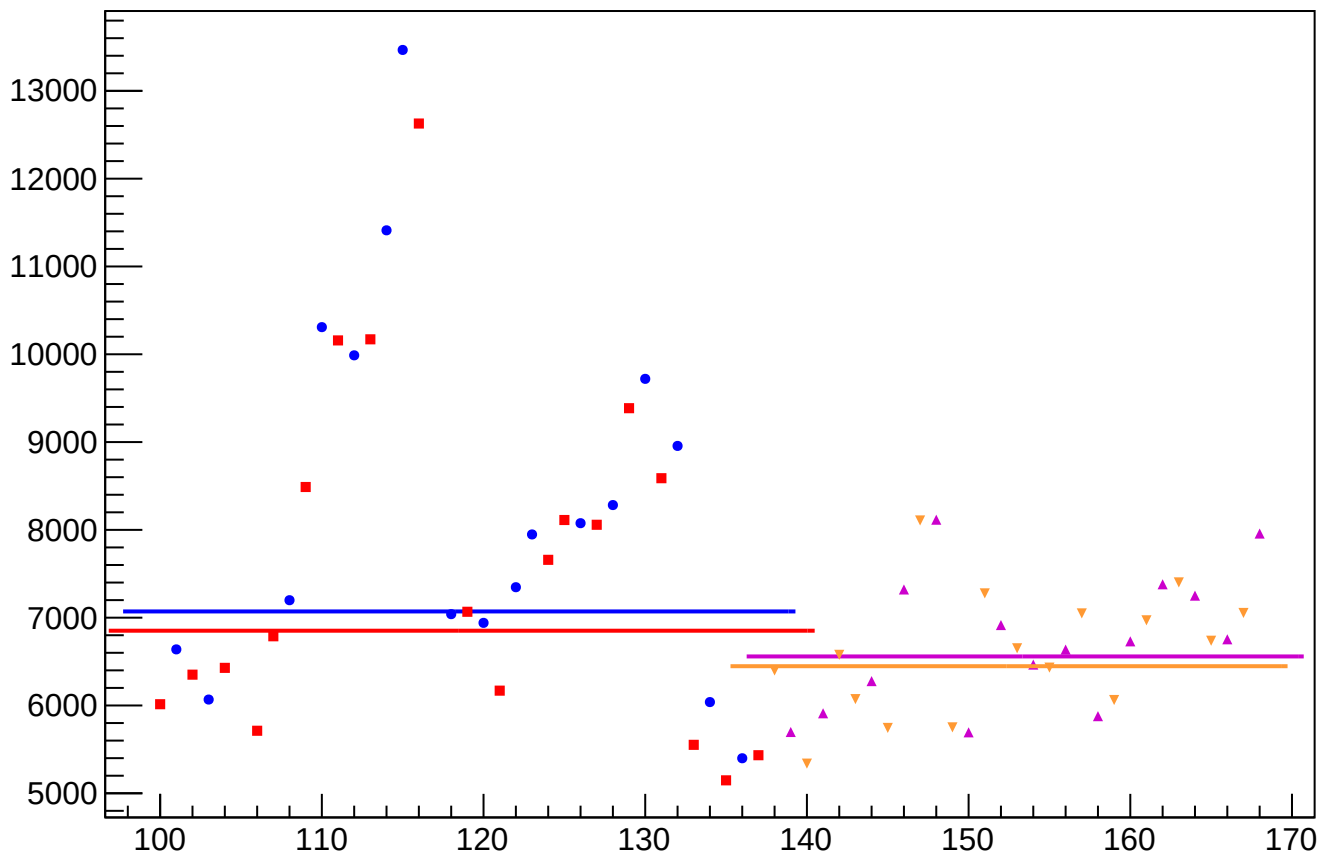
Right: -3.578 $\pm$ 1.918 χ^2/NDF : 34.4/35

In: -2.569 $\pm$ 1.591 χ^2/NDF : 38.9/31

Out: 1.146 $\pm$ 1.535 χ^2/NDF : 39.0/34

All: -0.645 $\pm$ 1.105 χ^2/NDF : 80.7/66

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6447.297+/-1.334 χ^2/NDF : 271575.4/15

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

Left In: 6558.543+/-1.369 χ^2/NDF : 279811.4/14

Left: 6501.501+/-0.955 χ^2/NDF : 554773.9/30

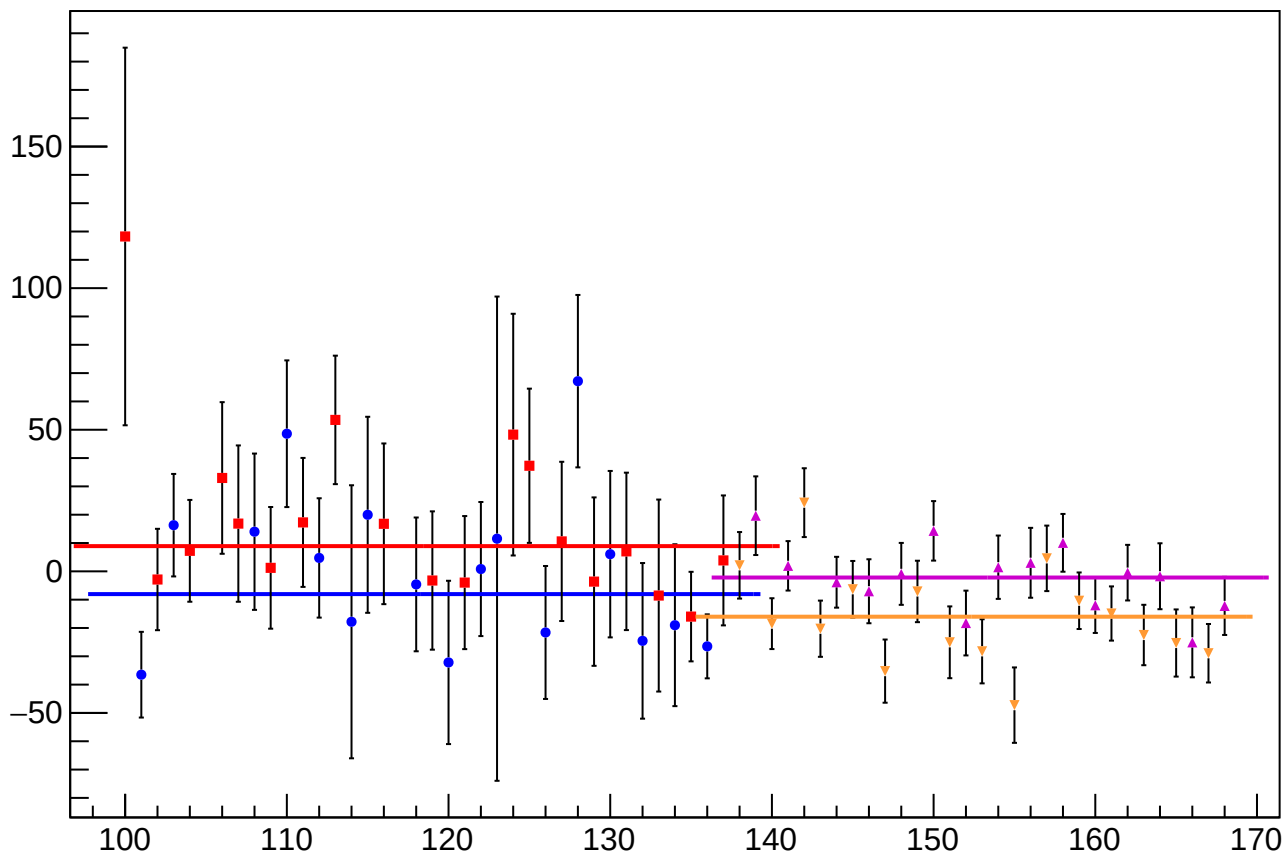
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6725.053+/-1.125 χ^2/NDF : 926106.8/31

Out: 6584.034+/-1.085 χ^2/NDF : 987026.5/34

All: 6652.043+/-0.781 χ^2/NDF : 1921273.2/66

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 ± 5.497 $\chi^2/\text{NDF}: 22.6/16$

Left Out: -16.014 ± 2.707 $\chi^2/\text{NDF}: 31.4/15$

Right Out: 8.907 ± 5.566 $\chi^2/\text{NDF}: 13.7/18$

Left In: -2.183 ± 2.751 $\chi^2/\text{NDF}: 14.5/14$

Left: -9.212 ± 1.930 $\chi^2/\text{NDF}: 58.8/30$

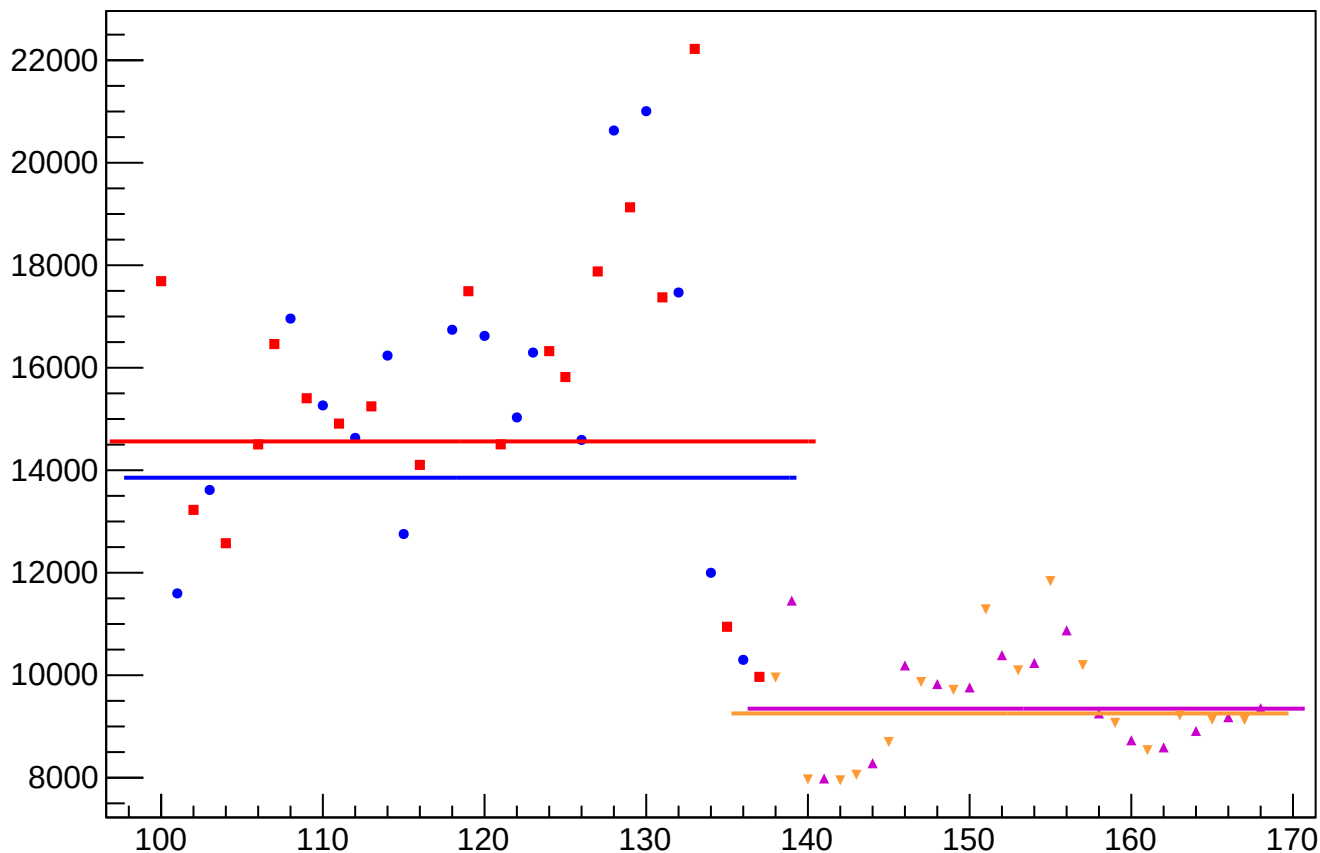
Right: 0.330 ± 3.911 $\chi^2/\text{NDF}: 41.0/35$

In: -3.355 ± 2.460 $\chi^2/\text{NDF}: 38.0/31$

Out: -11.249 ± 2.434 $\chi^2/\text{NDF}: 61.3/34$

All: -7.345 ± 1.730 $\chi^2/\text{NDF}: 104.5/66$

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9254.676+/-1.914 χ^2/NDF : 279539.1/15

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

Left In: 9347.486+/-1.946 χ^2/NDF : 224340.9/14

Left: 9300.317+/-1.364 χ^2/NDF : 505036.5/30

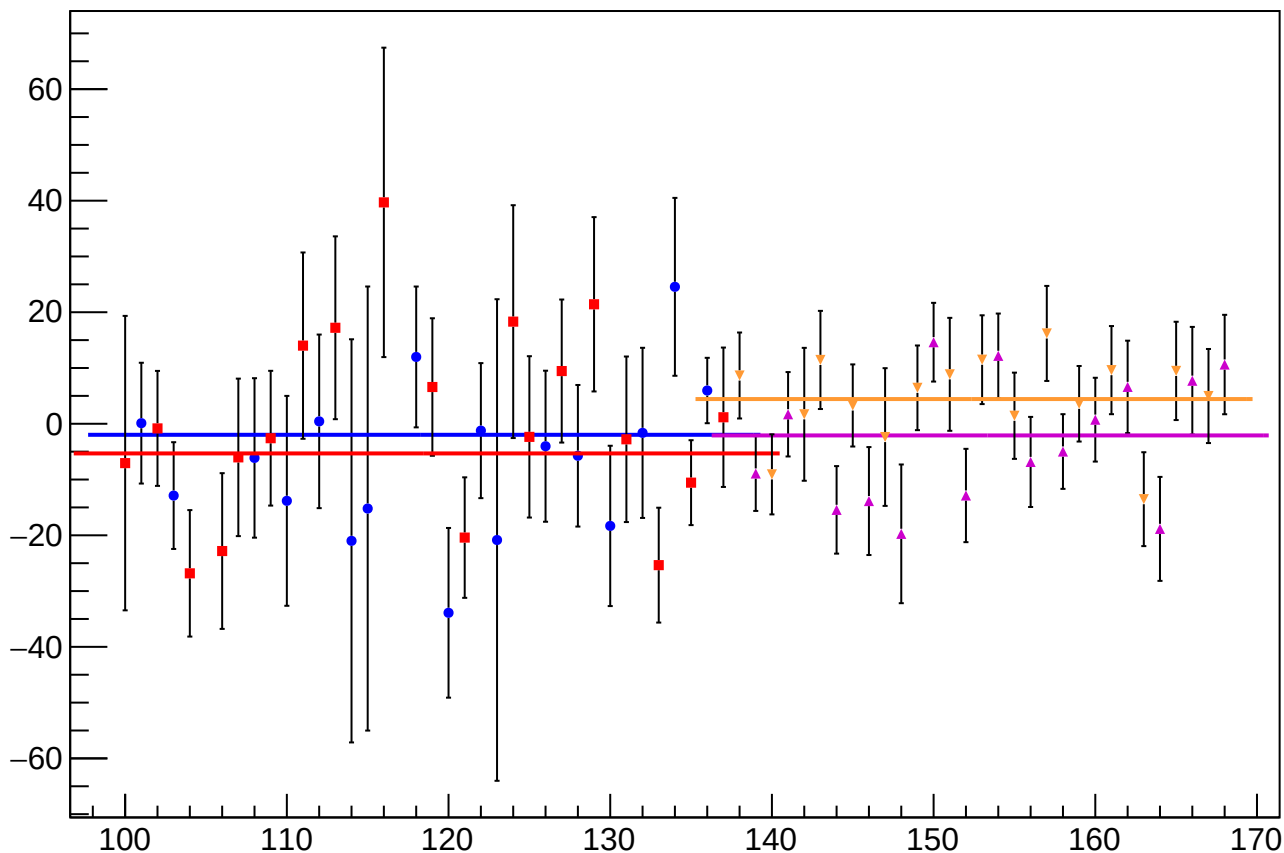
Right: 14203.845+/-2.766 χ^2/NDF : 1091628.8/35

In: 10250.284+/-1.740 χ^2/NDF : 1900157.3/31

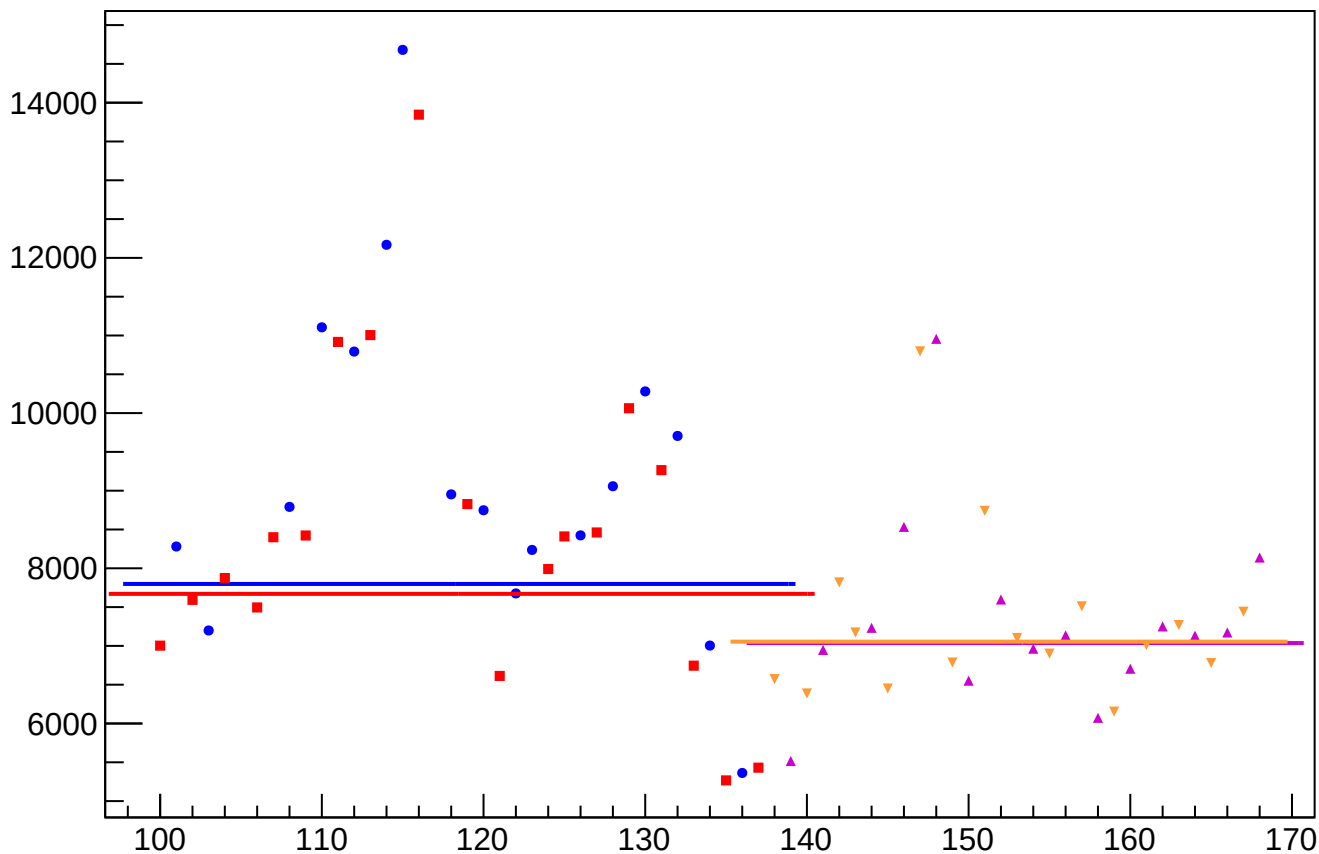
Out: 10269.643+/-1.721 χ^2/NDF : 2224590.3/34

All: 10260.068+/-1.224 χ^2/NDF : 4124810.3/66

diff_bpm4acY_mean vs Slug, Sign Corrected



diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267+/-2.188 χ^2/NDF : 736283.6/16

Left Out: 7054.727+/-1.463 χ^2/NDF : 338149.5/15

Right Out: 7670.584+/-2.092 χ^2/NDF : 672691.0/18

Left In: 7036.687+/-1.476 χ^2/NDF : 447392.4/14

Left: 7045.783+/-1.039 χ^2/NDF : 785617.3/30

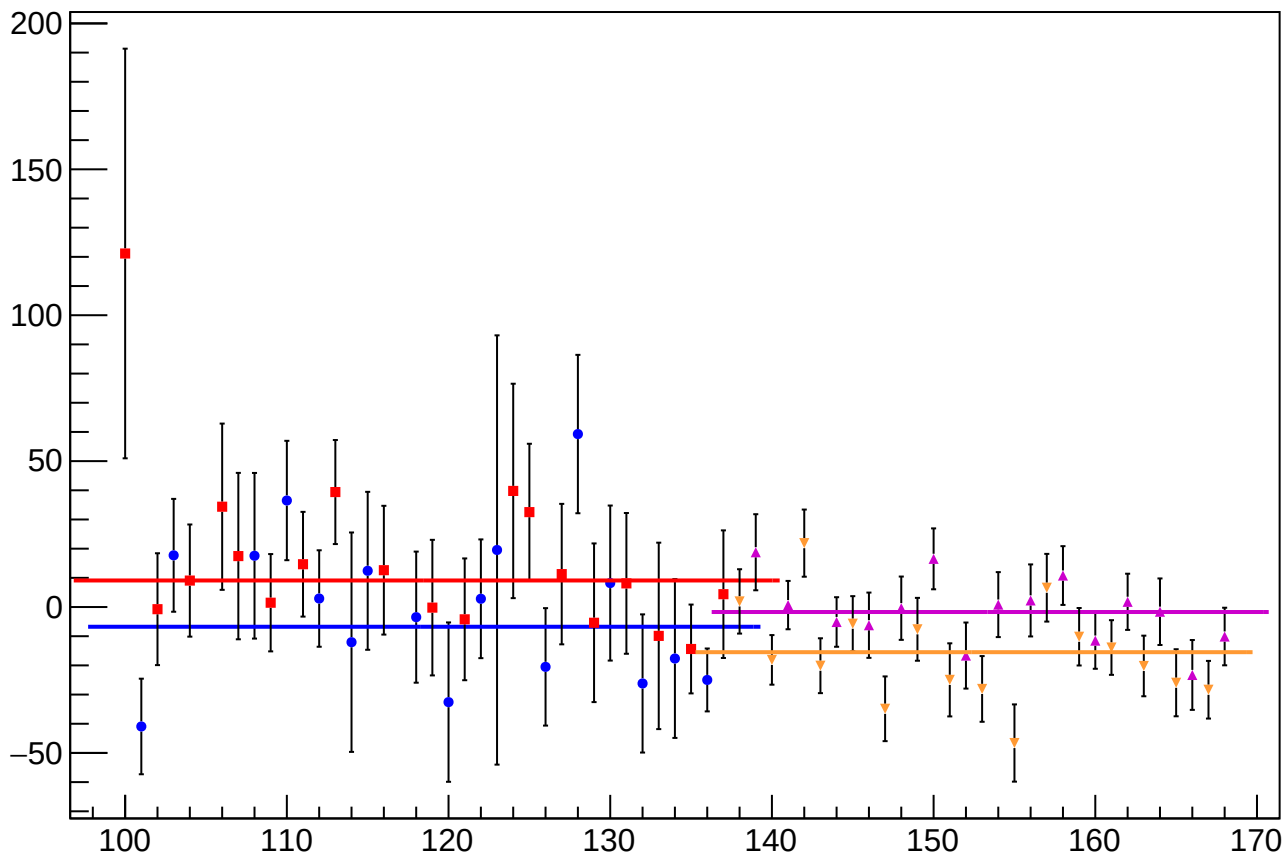
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7274.881+/-1.224 χ^2/NDF : 1266955.9/31

Out: 7257.092+/-1.199 χ^2/NDF : 1069028.6/34

All: 7265.808+/-0.856 χ^2/NDF : 2336092.3/66

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 ± 5.085 χ^2/NDF : 23.7/16

Left Out: -15.472 ± 2.625 χ^2/NDF : 32.1/15

Right Out: 9.102 ± 5.070 χ^2/NDF : 12.2/18

Left In: -1.708 ± 2.684 χ^2/NDF : 14.5/14

Left: -8.743 ± 1.877 χ^2/NDF : 60.0/30

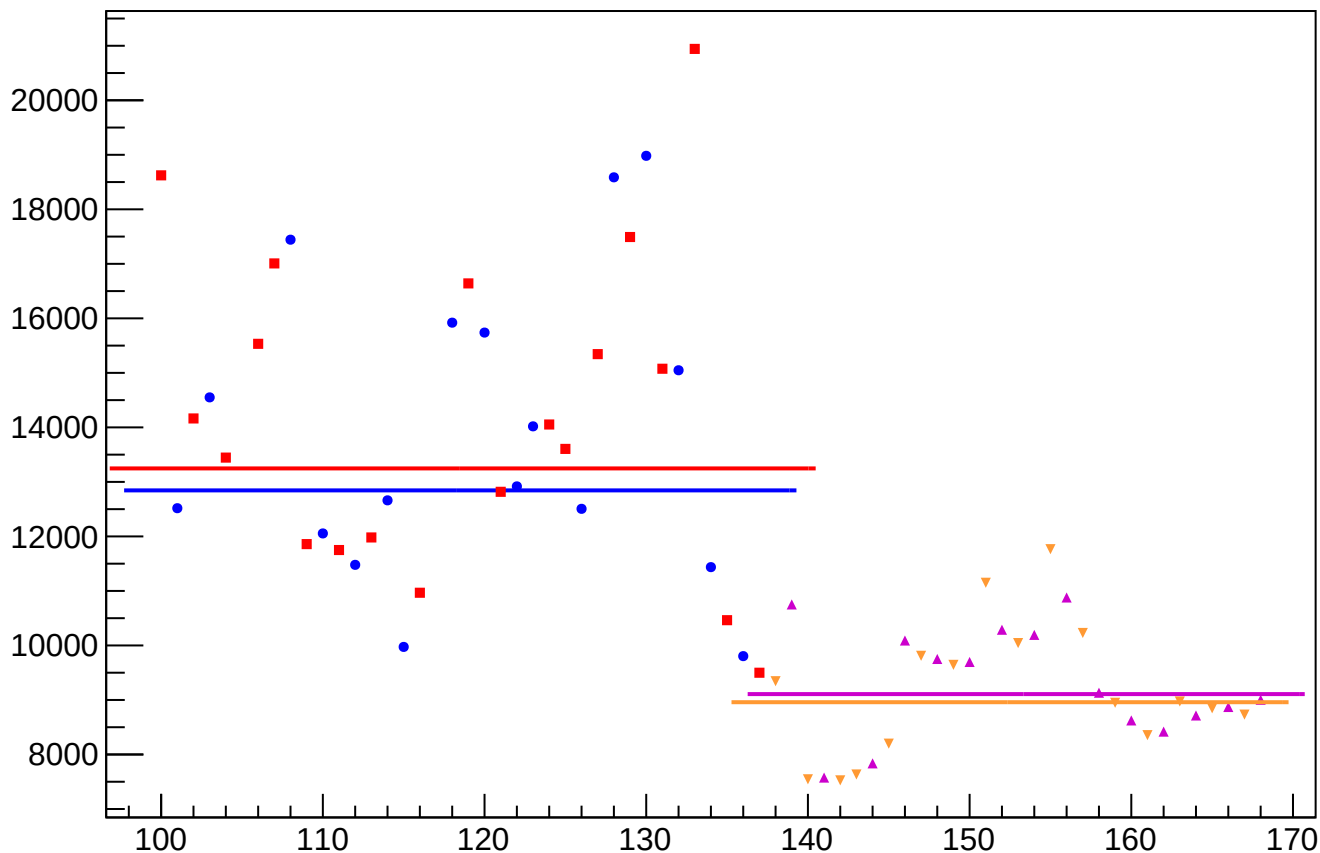
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -2.809 ± 2.374 χ^2/NDF : 39.0/31

Out: -10.277 ± 2.331 χ^2/NDF : 62.8/34

All: -6.611 ± 1.663 χ^2/NDF : 106.9/66

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8958.961 $\pm$ 1.856 χ^2 /NDF:364726.4/15

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

Left In: 9107.786 $\pm$ 1.898 χ^2 /NDF:274446.4/14

Left: 9031.714 $\pm$ 1.327 χ^2 /NDF: 642314.8/30

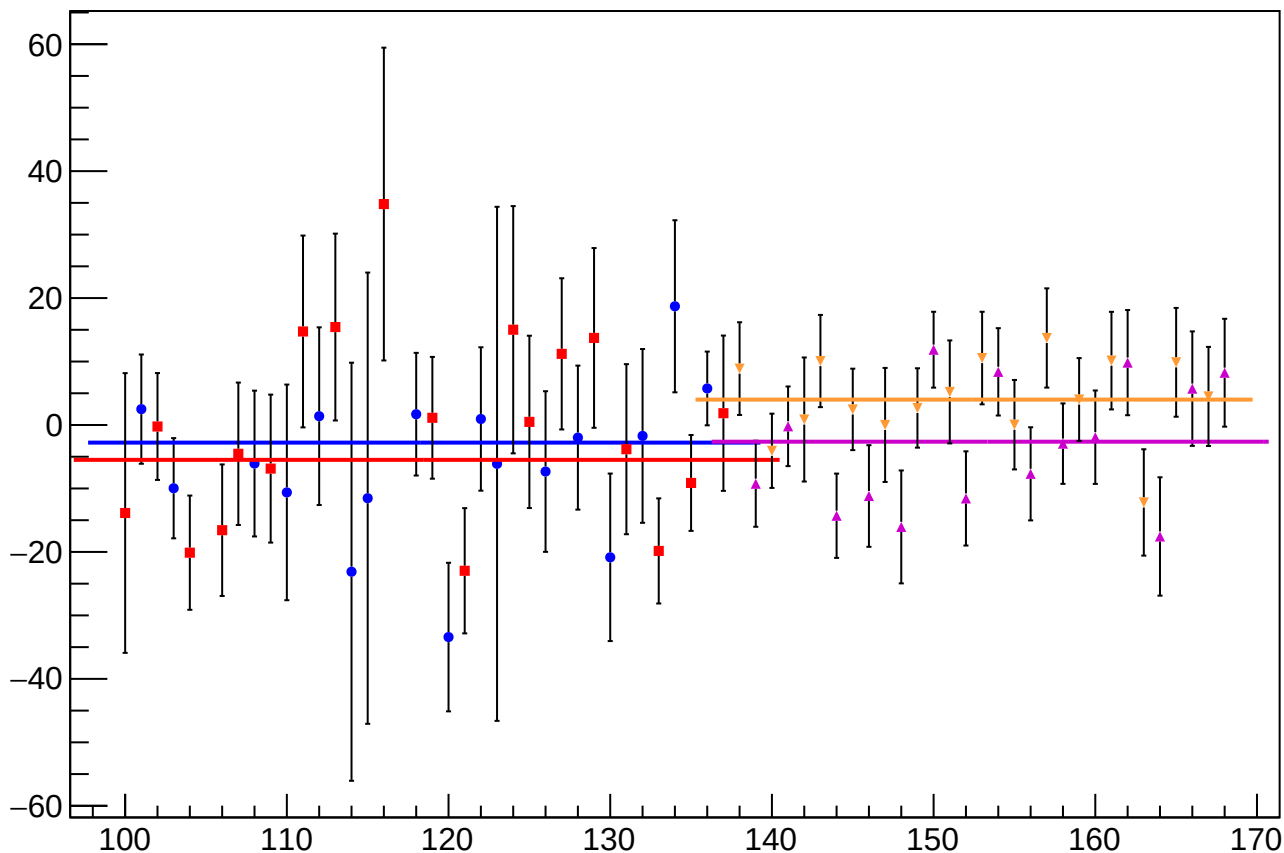
Right: 13046.351 $\pm$ 2.539 χ^2 /NDF: 1039049.9/35

In: 9922.266 $\pm$ 1.679 χ^2 /NDF:1666329.5/31

Out: 9865.520 $\pm$ 1.649 χ^2 /NDF:1978332.6/34

All: 9893.379 $\pm$ 1.176 χ^2 /NDF: 3645243.8/66

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 ± 2.732 $\chi^2/\text{NDF}: 15.9/16$

Left Out: 4.003 ± 1.842 $\chi^2/\text{NDF}: 11.0/15$

Right Out: -5.491 ± 2.587 $\chi^2/\text{NDF}: 23.2/18$

Left In: -2.630 ± 1.892 $\chi^2/\text{NDF}: 25.3/14$

Left: 0.775 ± 1.320 $\chi^2/\text{NDF}: 42.6/30$

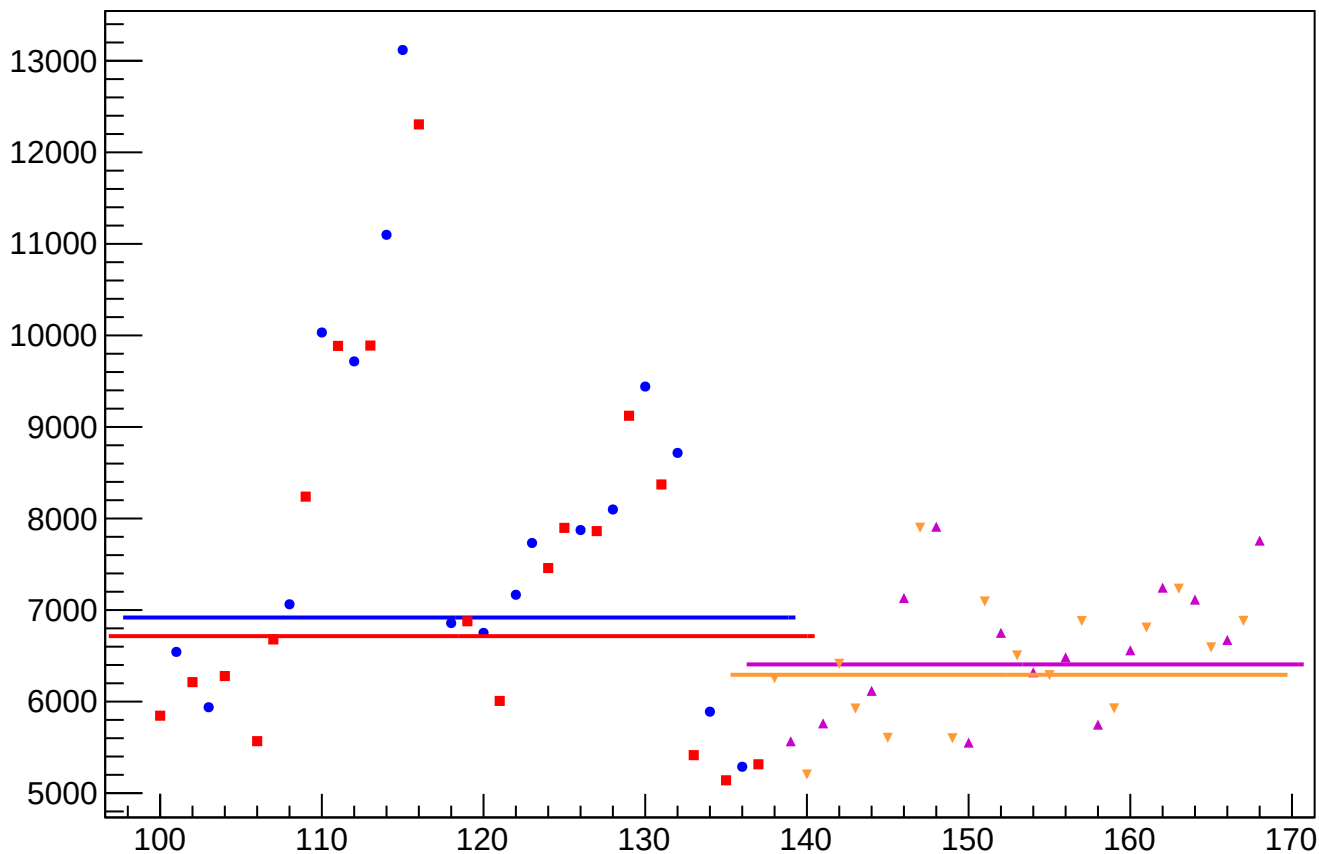
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

In: -2.677 ± 1.555 $\chi^2/\text{NDF}: 41.2/31$

Out: 0.810 ± 1.501 $\chi^2/\text{NDF}: 43.1/34$

All: -0.871 ± 1.080 $\chi^2/\text{NDF}: 86.9/66$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477 $\pm$ 1.932 χ^2 /NDF: 587039.3/16

Left Out: 6293.103 $\pm$ 1.302 χ^2 /NDF: 273185.4/15

Right Out: 6715.022 $\pm$ 1.830 χ^2 /NDF: 656010.3/18

Left In: 6406.183 $\pm$ 1.338 χ^2 /NDF: 281669.3/14

Left: 6348.137 $\pm$ 0.933 χ^2 /NDF: 558523.4/30

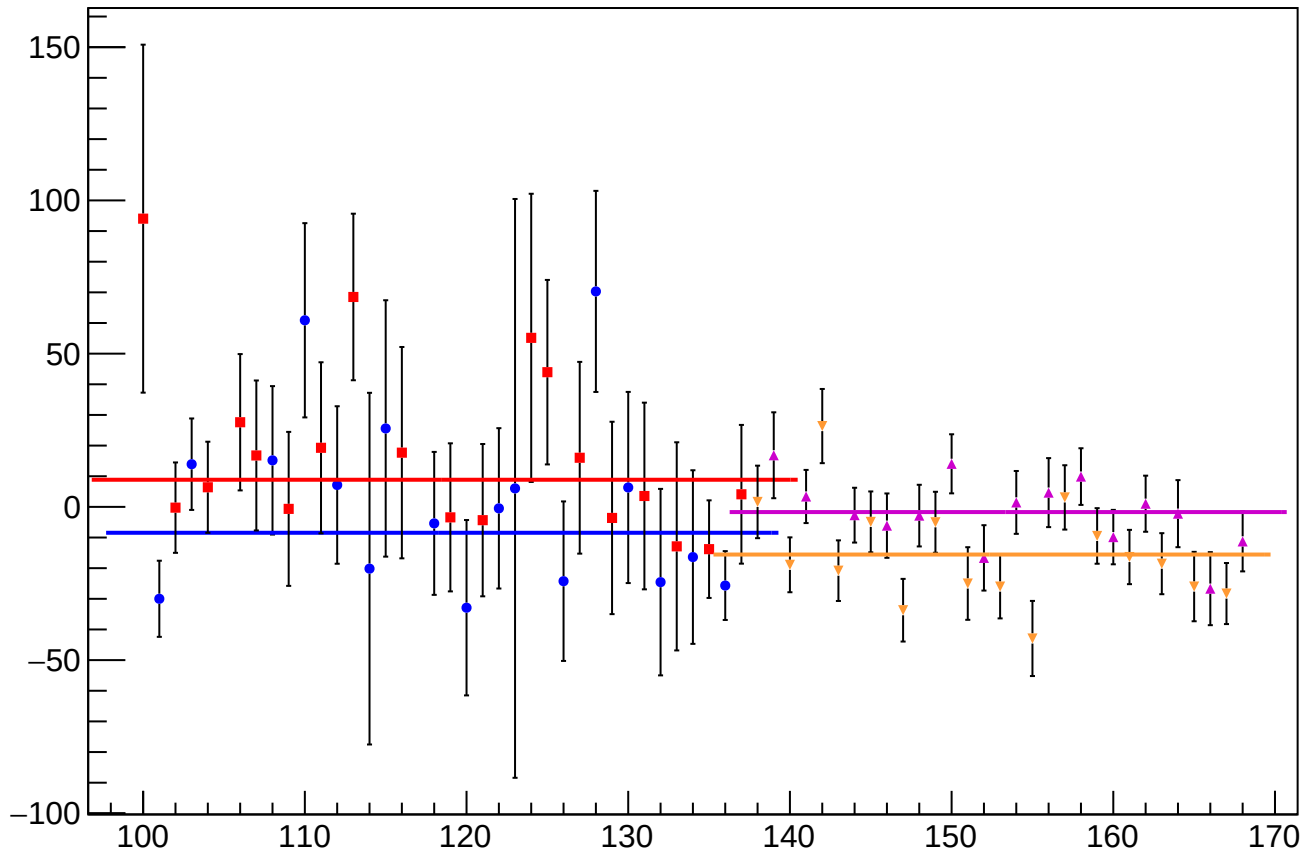
Right: 6811.237 $\pm$ 1.328 χ^2 /NDF: 1248897.6/35

In: 6572.224 $\pm$ 1.100 χ^2 /NDF: 916251.9/31

Out: 6435.002 $\pm$ 1.061 χ^2 /NDF: 964490.3/34

All: 6501.161 $\pm$ 0.764 χ^2 /NDF: 1888806.3/66

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -15.550 ± 2.569 $\chi^2/\text{NDF}: 32.8/15$

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

Left In: -1.694 ± 2.591 $\chi^2/\text{NDF}: 15.2/14$

Left: -8.680 ± 1.824 $\chi^2/\text{NDF}: 62.4/30$

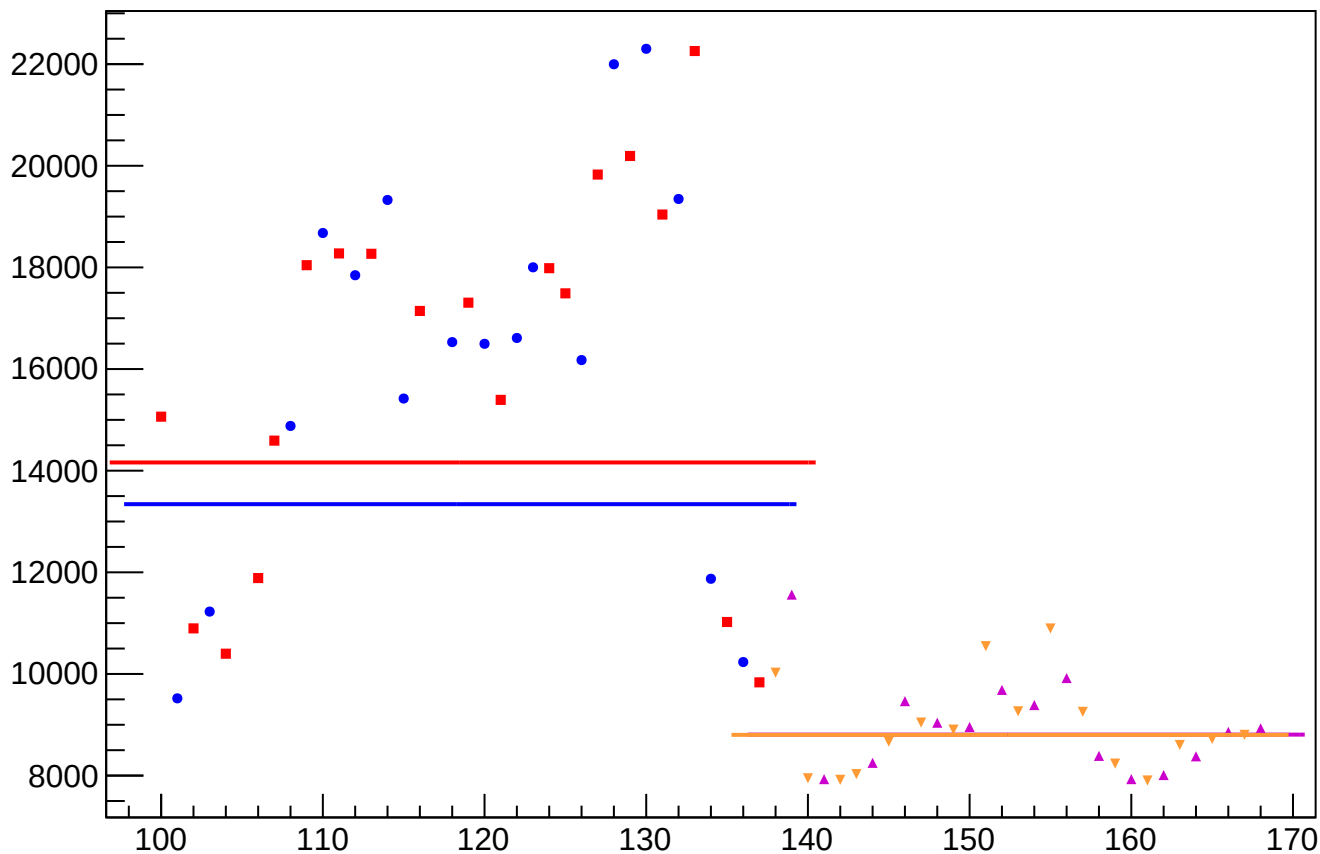
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: -2.961 ± 2.335 $\chi^2/\text{NDF}: 38.5/31$

Out: -11.189 ± 2.329 $\chi^2/\text{NDF}: 63.1/34$

All: -7.087 ± 1.649 $\chi^2/\text{NDF}: 107.8/66$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13340.948+/-3.813 χ^2/NDF : 1044569.8/16

Left Out: 8801.357+/-1.817 χ^2/NDF : 202857.0/15

Right Out: 14161.826+/-3.895 χ^2/NDF : 931787.3/18

Left In: 8806.421+/-1.832 χ^2/NDF : 196520.9/14

Left: 8803.868+/-1.290 χ^2/NDF : 399381.8/30

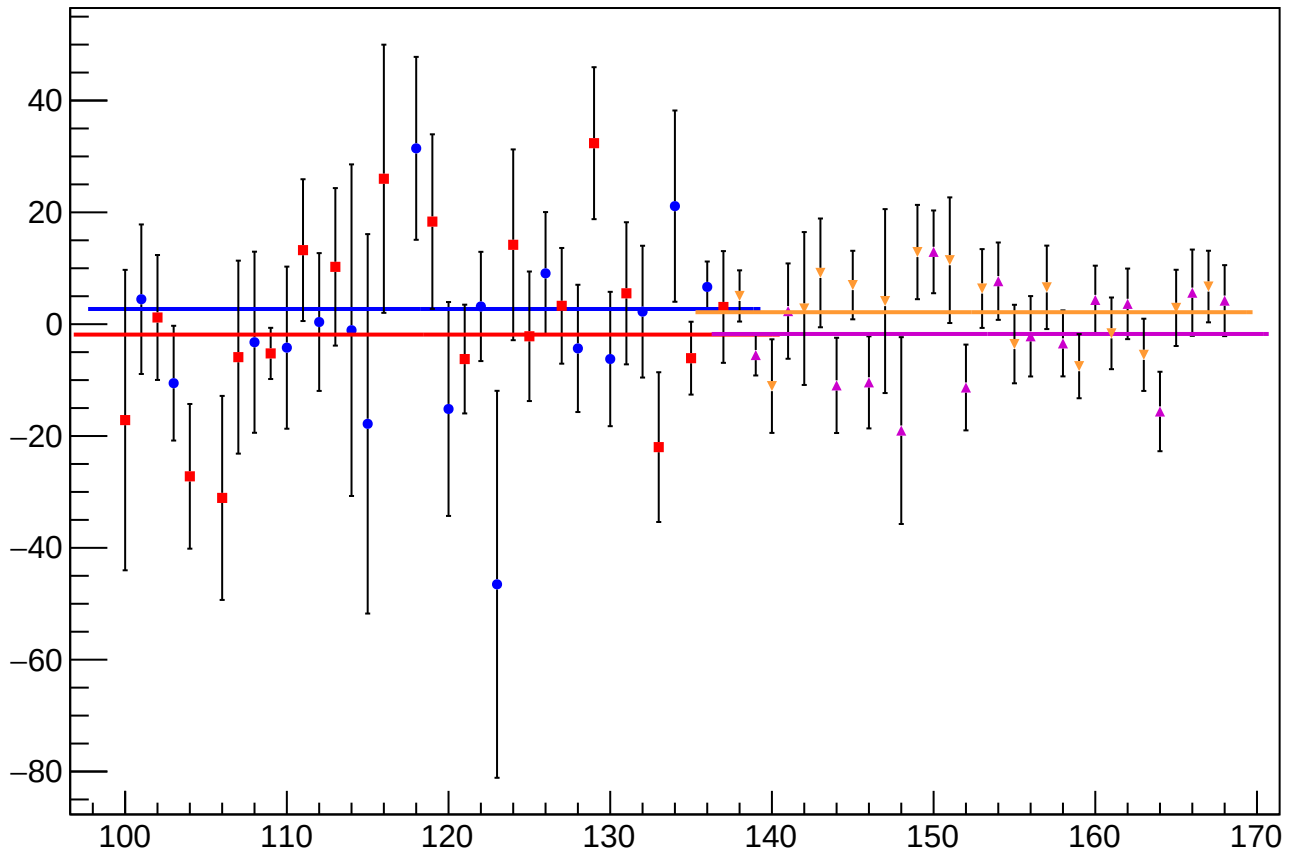
Right: 13742.695+/-2.725 χ^2/NDF : 1999035.6/35

In: 9656.801+/-1.651 χ^2/NDF : 2389906.9/31

Out: 9759.290+/-1.647 χ^2/NDF : 2690216.4/34

All: 9708.196+/-1.166 χ^2/NDF : 5082054.8/66

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 2.142 ± 1.787 $\chi^2/\text{NDF}: 12.8/15$

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

Left In: -1.751 ± 1.720 $\chi^2/\text{NDF}: 19.4/14$

Left: 0.121 ± 1.239 $\chi^2/\text{NDF}: 34.7/30$

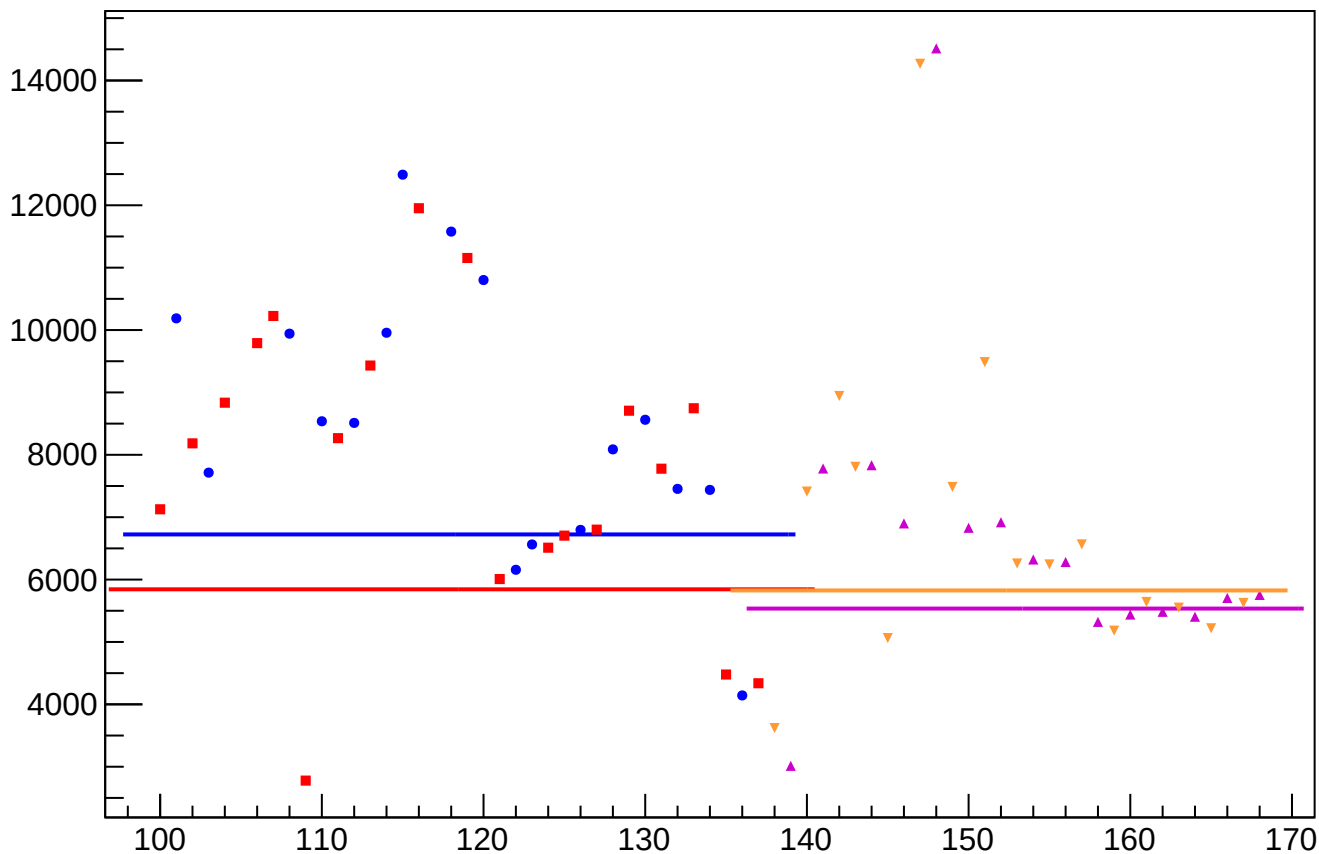
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: -0.496 ± 1.458 $\chi^2/\text{NDF}: 32.9/31$

Out: 0.744 ± 1.441 $\chi^2/\text{NDF}: 38.1/34$

All: 0.131 ± 1.025 $\chi^2/\text{NDF}: 71.4/66$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839+/-1.946

χ^2/NDF : 1392082.5/16

Left Out: 5825.979+/-1.264

χ^2/NDF : 1653003.1/15

Right Out: 5843.829+/-1.725

χ^2/NDF : 2277223.8/18

Left In: 5535.156+/-1.216

χ^2/NDF : 2049226.4/14

Left: 5674.984+/-0.876

χ^2/NDF : 3729732.7/30

Right: 6230.943+/-1.291

χ^2/NDF : 3783849.2/35

In: 5868.949+/-1.031

χ^2/NDF : 3709658.8/31

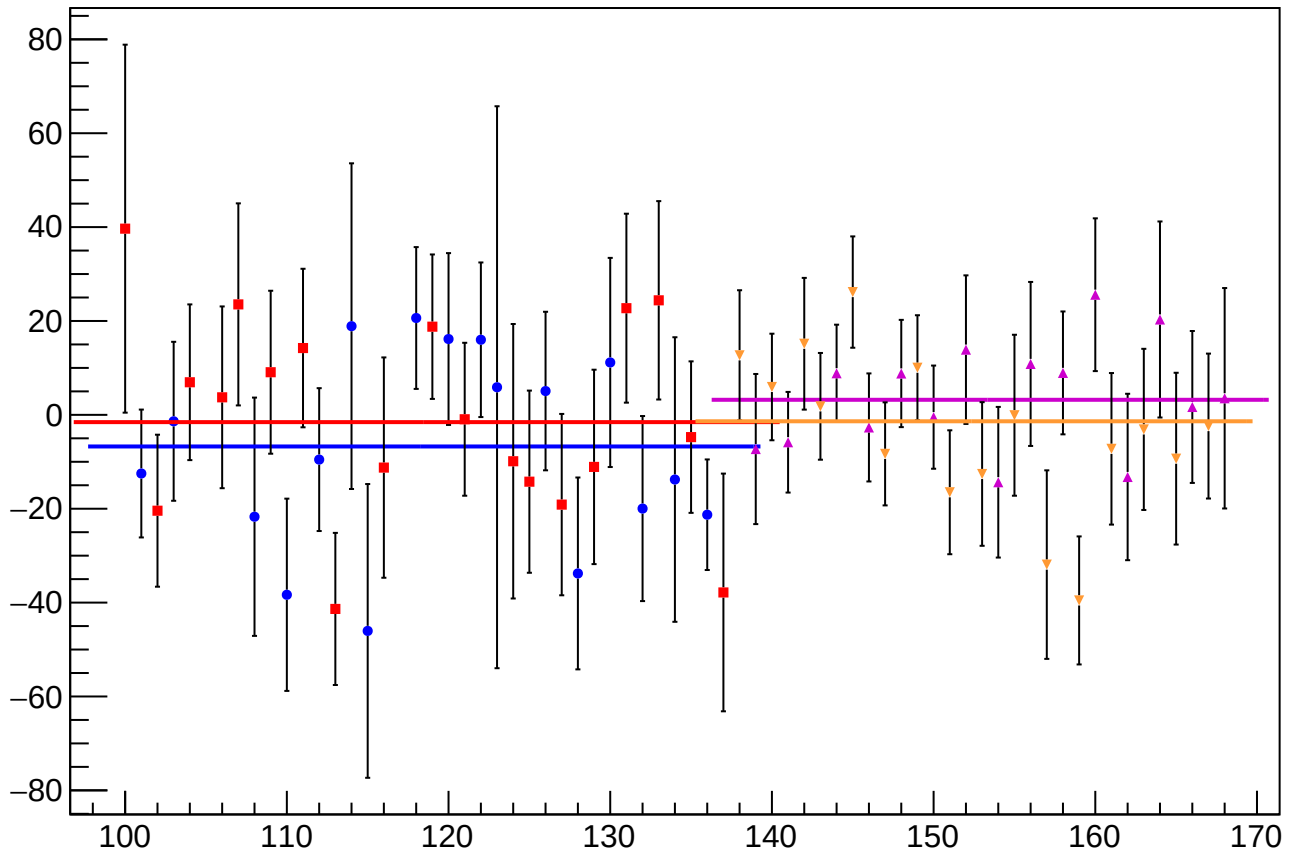
Out: 5832.214+/-1.019

χ^2/NDF : 3930296.6/34

All: 5850.368+/-0.725

χ^2/NDF : 7640597.2/60

diff_bpm11X_mean vs Slug, Sign Corrected



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

Left Out: -1.370 ± 3.433 $\chi^2/\text{NDF}: 22.1/15$

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

Left In: 3.208 ± 3.597 $\chi^2/\text{NDF}: 7.5/14$

Left: 0.812 ± 2.483 $\chi^2/\text{NDF}: 30.4/30$

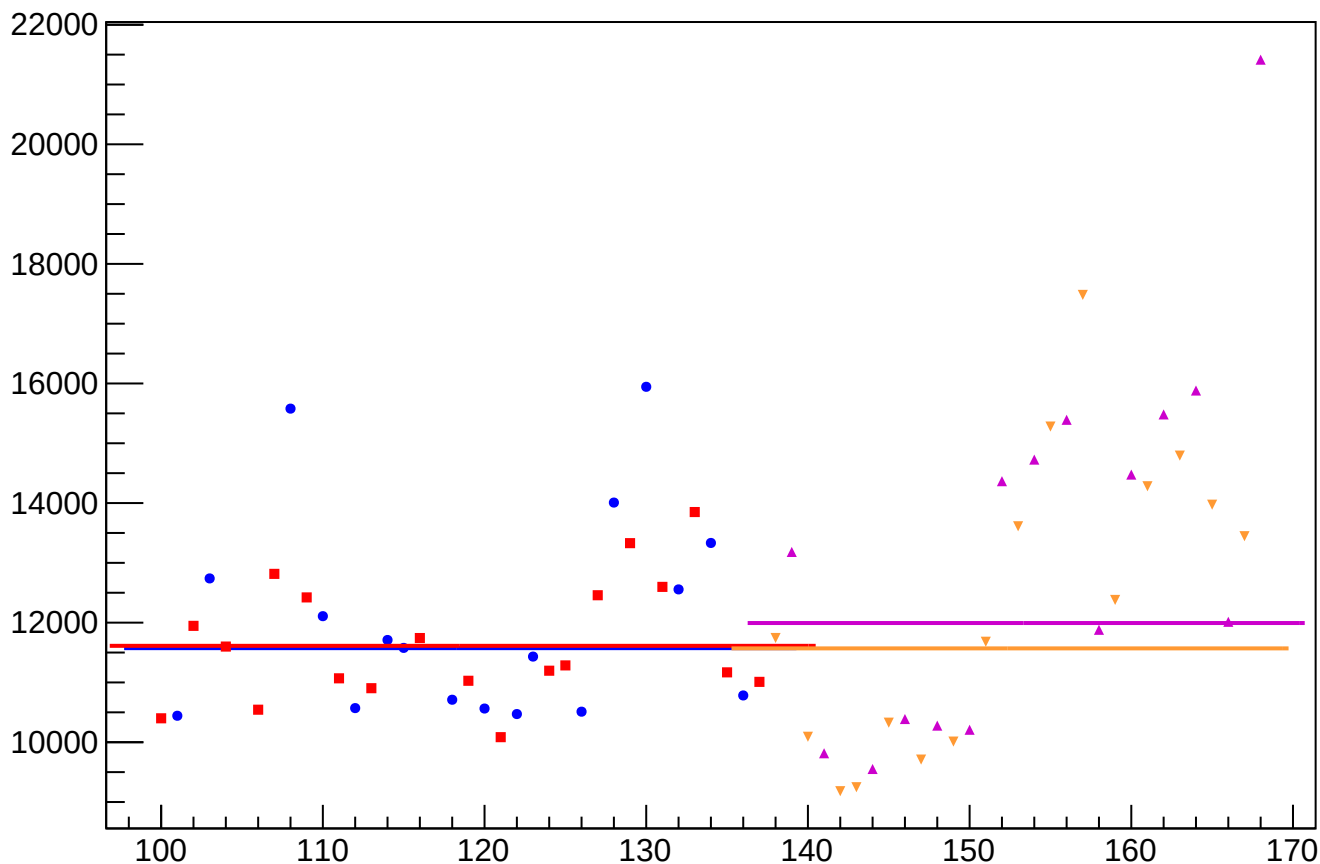
Right: -4.061 ± 3.140 $\chi^2/\text{NDF}: 37.5/35$

In: -0.655 ± 2.813 $\chi^2/\text{NDF}: 27.4/31$

Out: -1.439 ± 2.700 $\chi^2/\text{NDF}: 42.0/34$

All: -1.063 ± 1.948 $\chi^2/\text{NDF}: 69.4/66$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.490+/-3.191 χ^2/NDF : 238734.7/16

Left Out: 11569.380+/-2.427 χ^2/NDF : 794506.1/15

Right Out: 11612.220+/-3.092 χ^2/NDF : 94308.1/18

Left In: 11993.546+/-2.543 χ^2/NDF : 1035703.2/14

Left: 11771.572+/-1.756 χ^2/NDF : 1844765.2/30

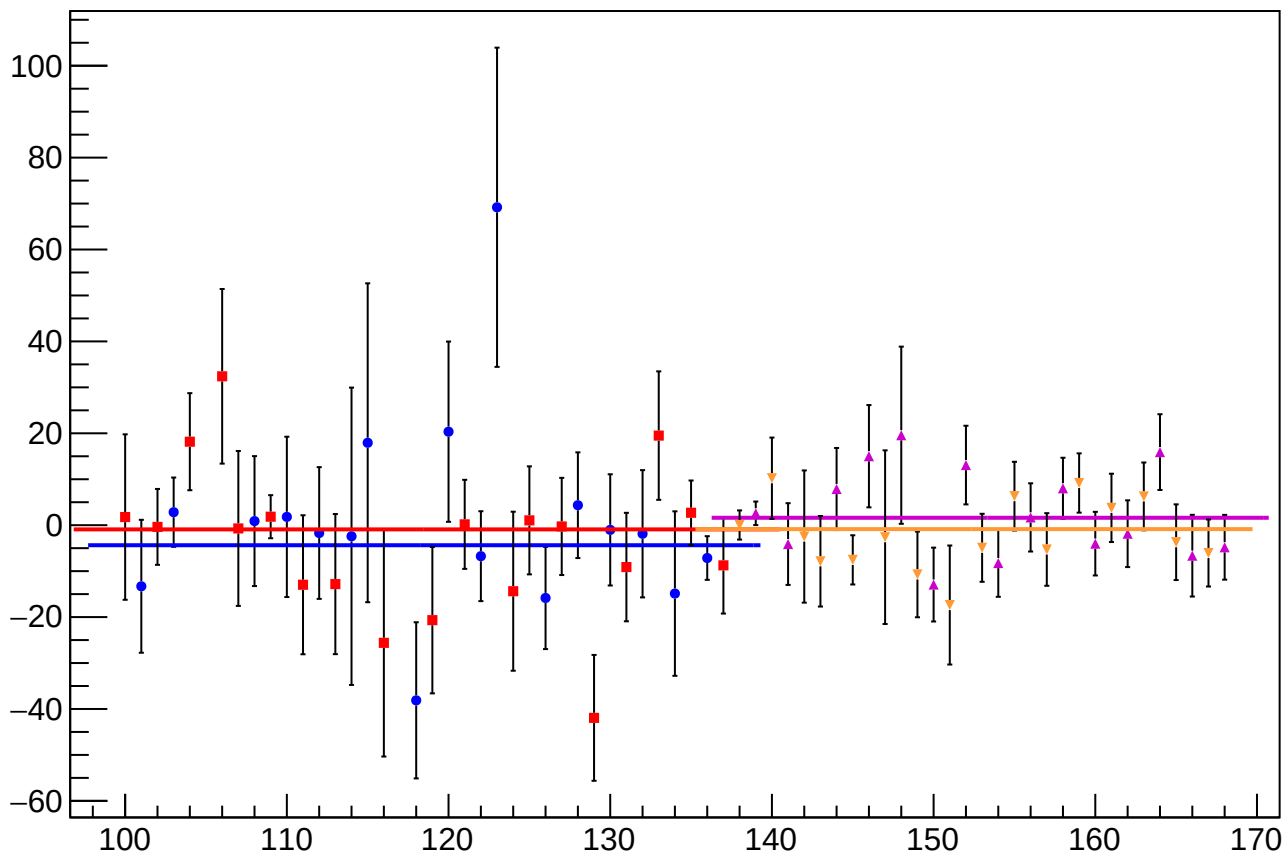
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11830.372+/-1.989 χ^2/NDF : 1285034.3/31

Out: 11585.716+/-1.909 χ^2/NDF : 888933.0/34

All: 11703.045+/-1.377 χ^2/NDF : 2181842.2/66

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 $\pm$ 2.776 χ^2/NDF : 14.5/16

Left Out: -0.856 $\pm$ 1.745 χ^2/NDF : 12.4/15

Right Out: -0.914 $\pm$ 2.426 χ^2/NDF : 23.5/18

Left In: 1.615 $\pm$ 1.657 χ^2/NDF : 16.8/14

Left: 0.443 $\pm$ 1.202 χ^2/NDF : 30.2/30

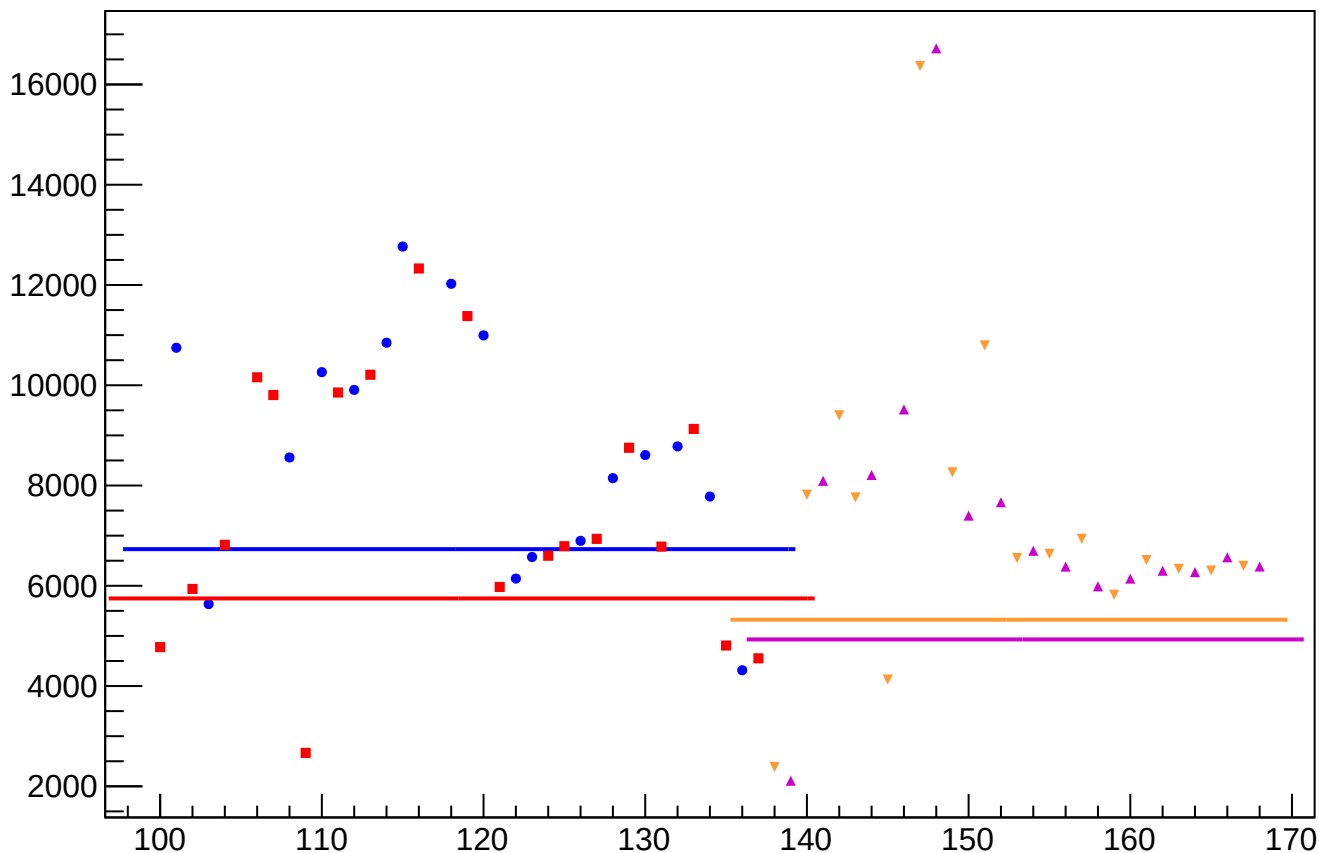
Right: -2.407 $\pm$ 1.827 χ^2/NDF : 38.9/35

In: 0.045 $\pm$ 1.423 χ^2/NDF : 34.7/31

Out: -0.876 $\pm$ 1.417 χ^2/NDF : 35.9/34

All: -0.417 $\pm$ 1.004 χ^2/NDF : 70.8/66

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 $\pm$ 1.963 χ^2 /NDF: 1445240.4/16

Left Out: 5323.238 $\pm$ 1.234 χ^2 /NDF: 3863929.2/15

Right Out: 5747.643 $\pm$ 1.716 χ^2 /NDF: 2162236.7/18

Left In: 4930.072 $\pm$ 1.172 χ^2 /NDF: 5008175.7/14

Left: 5116.451 $\pm$ 0.850 χ^2 /NDF: 8925479.0/30

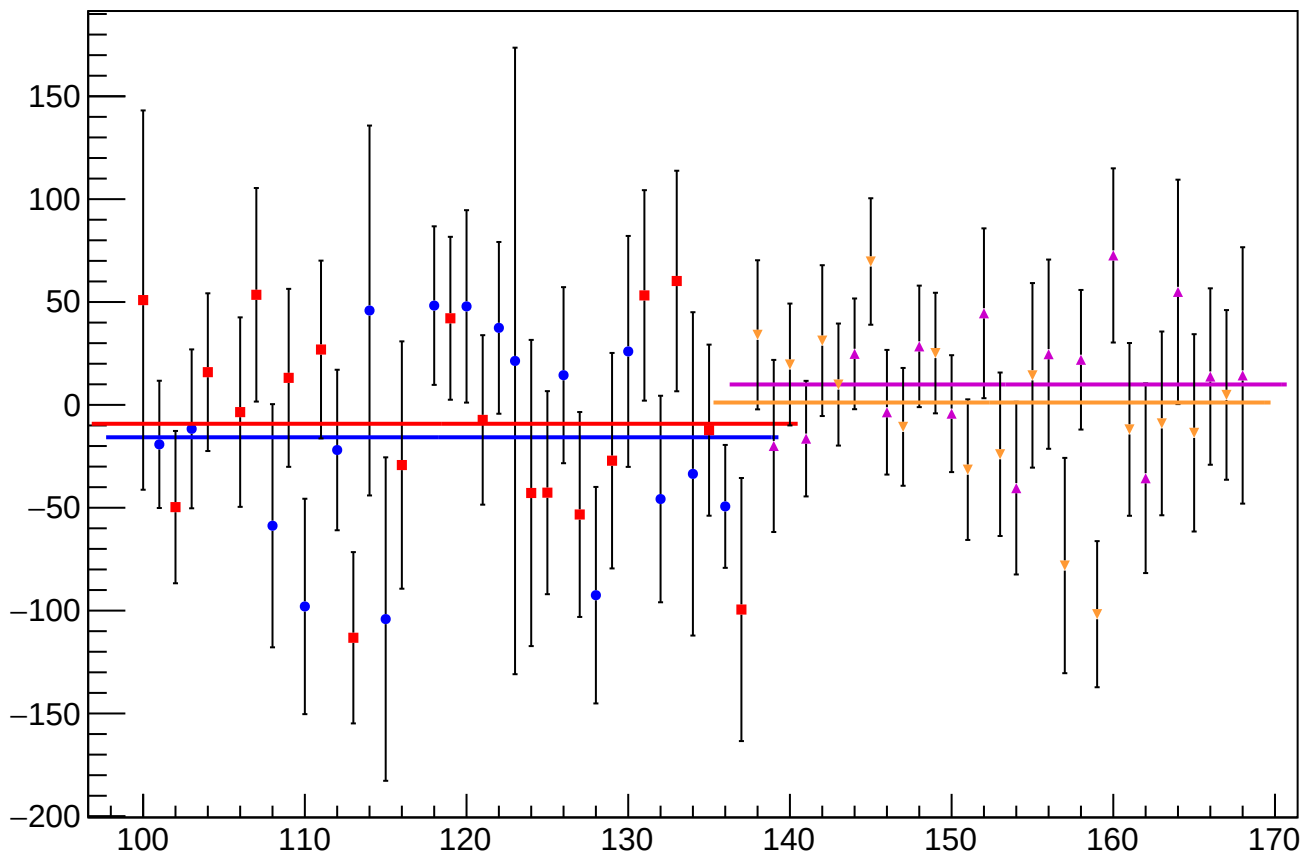
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5403.050 $\pm$ 1.006 χ^2 /NDF: 7073754.6/31

Out: 5467.985 $\pm$ 1.002 χ^2 /NDF: 6066495.6/34

All: 5435.656 $\pm$ 0.710 χ^2 /NDF: 13142341.8/69

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 1.147 $\pm$ 8.958 χ^2/NDF :20.1/15

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

Left In: 9.927 $\pm$ 9.383 χ^2/NDF :8.8/14

Left: 5.334 $\pm$ 6.480 χ^2/NDF : 29.4/30

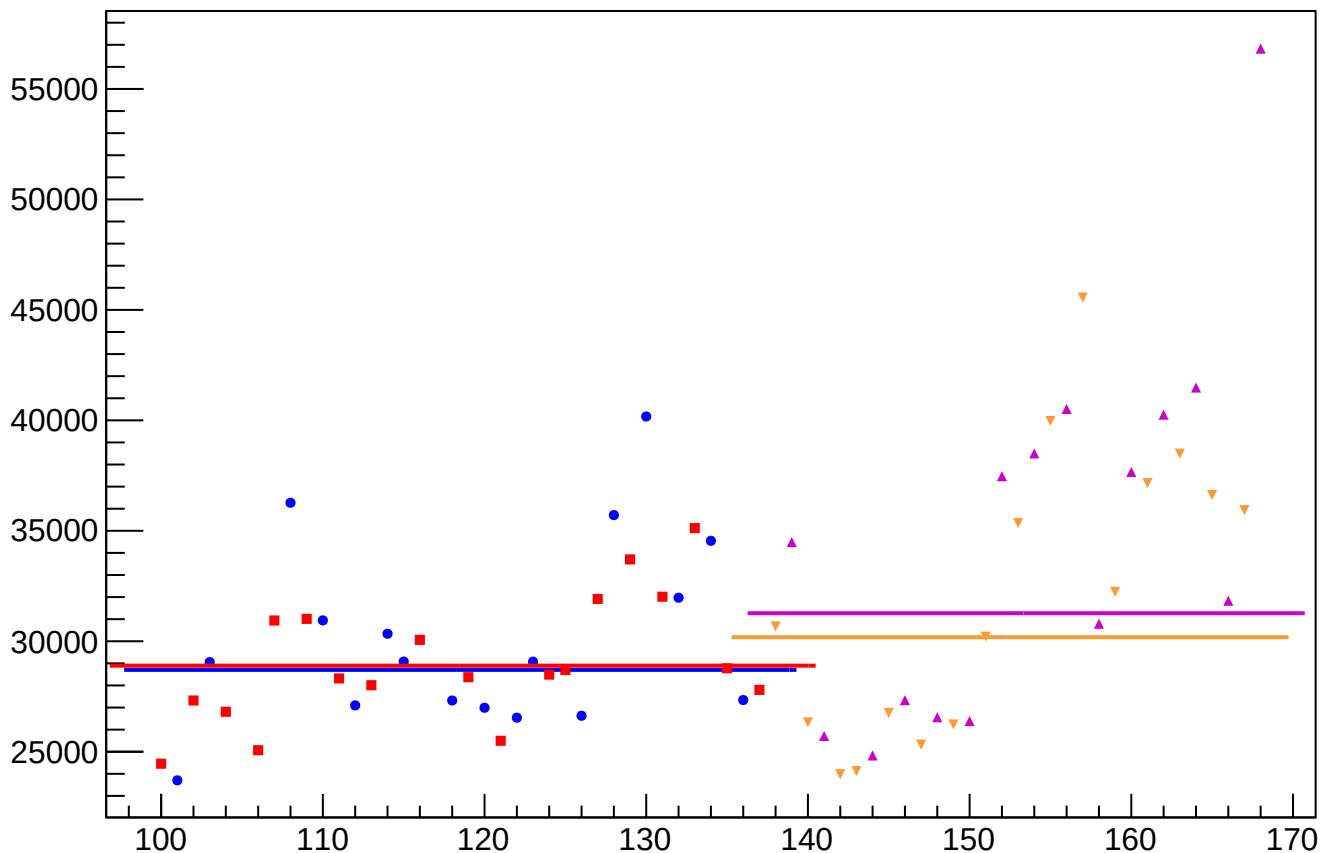
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -0.655 $\pm$ 7.195 χ^2/NDF :27.8/31

Out: -3.021 $\pm$ 6.918 χ^2/NDF :39.9/34

All: -1.884 $\pm$ 4.987 χ^2/NDF : 67.8/66

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925

χ^2/NDF : 250992.5/16

Left: 30702.459+/-4.582 χ^2/NDF : 1878056.3/30

Left Out: 30185.235+/-6.335

χ^2/NDF : 801483.3/15

Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

Right Out: 28895.535+/-7.700

χ^2/NDF : 111212.6/18

In: 30213.146+/-5.087 χ^2/NDF : 1375140.2/31

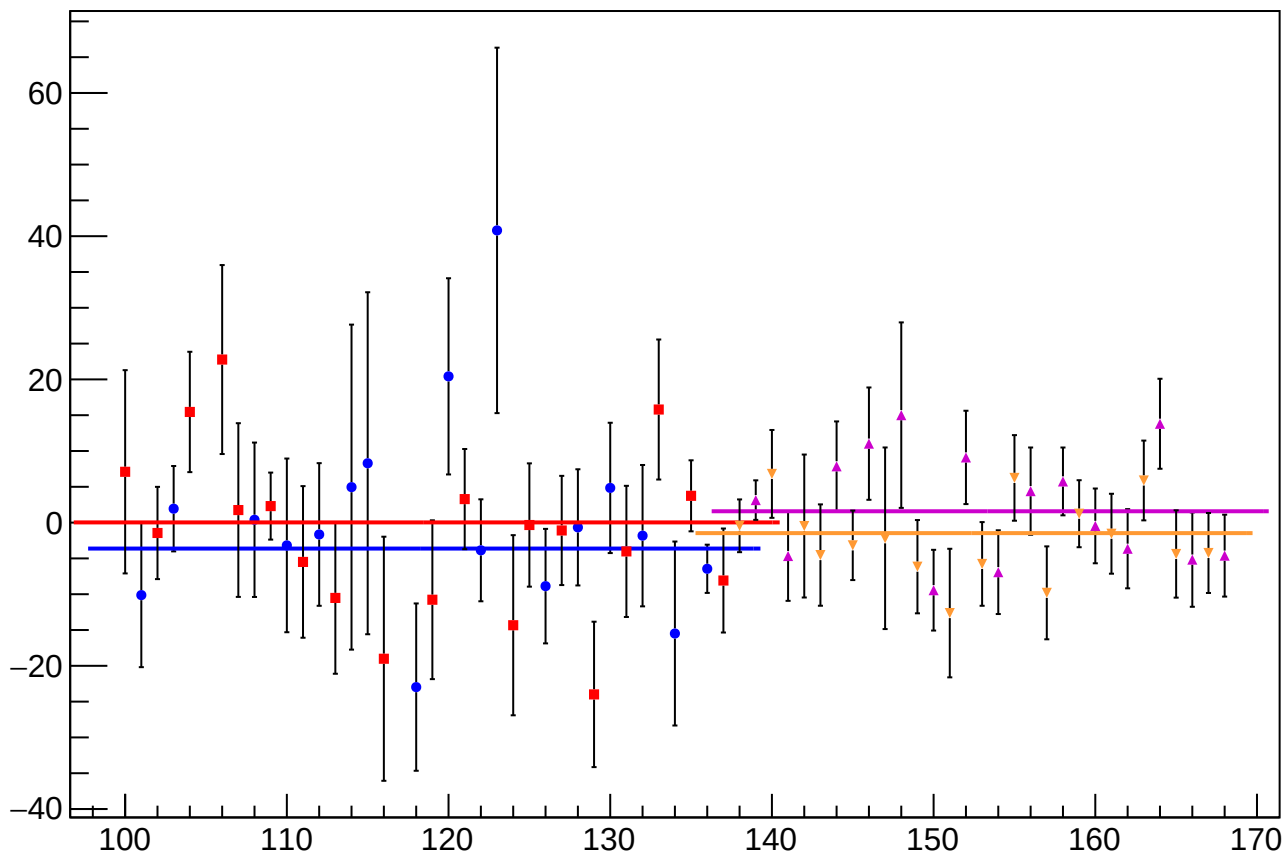
Out: 29664.669+/-4.892 χ^2/NDF : 929427.2/34

Left In: 31269.914+/-6.635

χ^2/NDF : 1062591.7/14

All: 29928.165+/-3.526 χ^2/NDF : 2310606.8/6

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 ± 2.006 χ^2/NDF : 13.7/16

Left Out: -1.468 ± 1.467 χ^2/NDF : 10.7/15

Right Out: 0.027 ± 1.890 χ^2/NDF : 22.1/18

Left In: 1.584 ± 1.403 χ^2/NDF : 20.2/14

Left: 0.126 ± 1.014 χ^2/NDF : 33.1/30

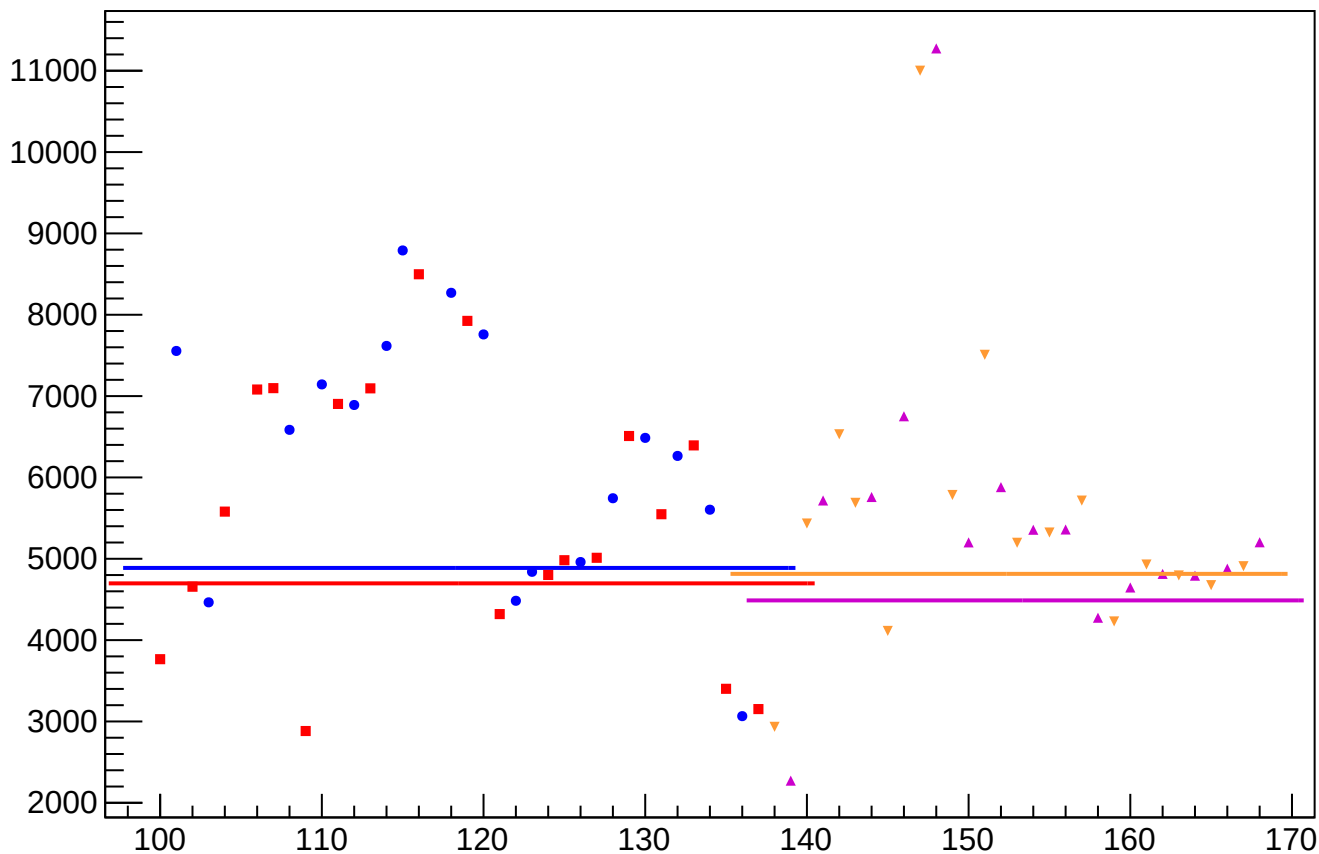
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: -0.126 ± 1.149 χ^2/NDF : 38.4/31

Out: -0.906 ± 1.159 χ^2/NDF : 33.2/34

All: -0.513 ± 0.816 χ^2/NDF : 71.8/66

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4814.487 $\pm$ 1.037 χ^2 /NDF: 1468278.0/15

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

Left In: 4488.243 $\pm$ 0.992 χ^2 /NDF: 2426766.6/14

Left: 4644.079 $\pm$ 0.717 χ^2 /NDF: 3946736.0/30

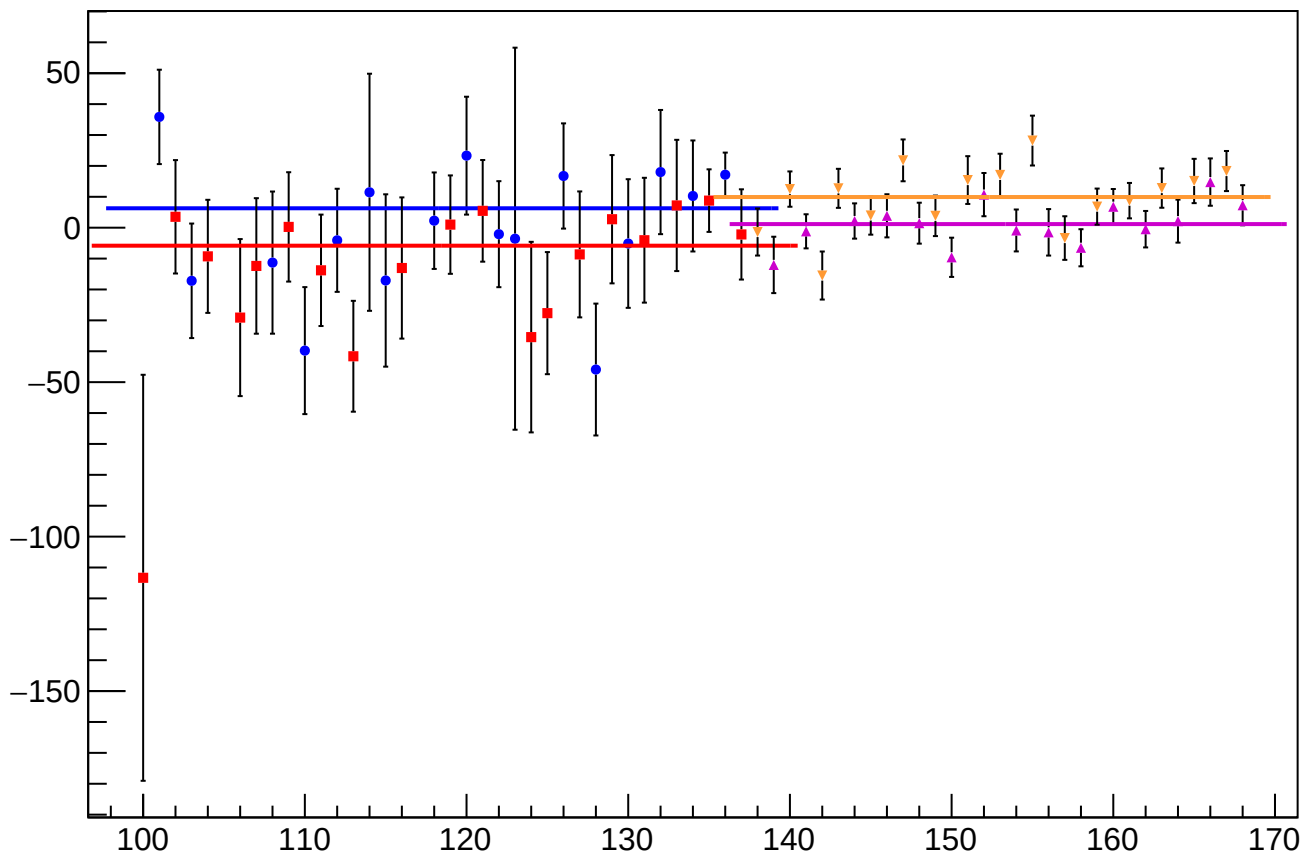
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

In: 4619.337 $\pm$ 0.813 χ^2 /NDF: 3889281.4/31

Out: 4770.601 $\pm$ 0.819 χ^2 /NDF: 2786163.4/34

All: 4694.364 $\pm$ 0.577 χ^2 /NDF: 6692624.1/66

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 χ^2/NDF : 22.5/16

Left Out: 9.923 ± 1.663 χ^2/NDF : 31.2/15

Right Out: -5.828 ± 4.219 χ^2/NDF : 13.8/18

Left In: 1.165 ± 1.686 χ^2/NDF : 14.1/14

Left: 5.604 ± 1.184 χ^2/NDF : 58.9/30

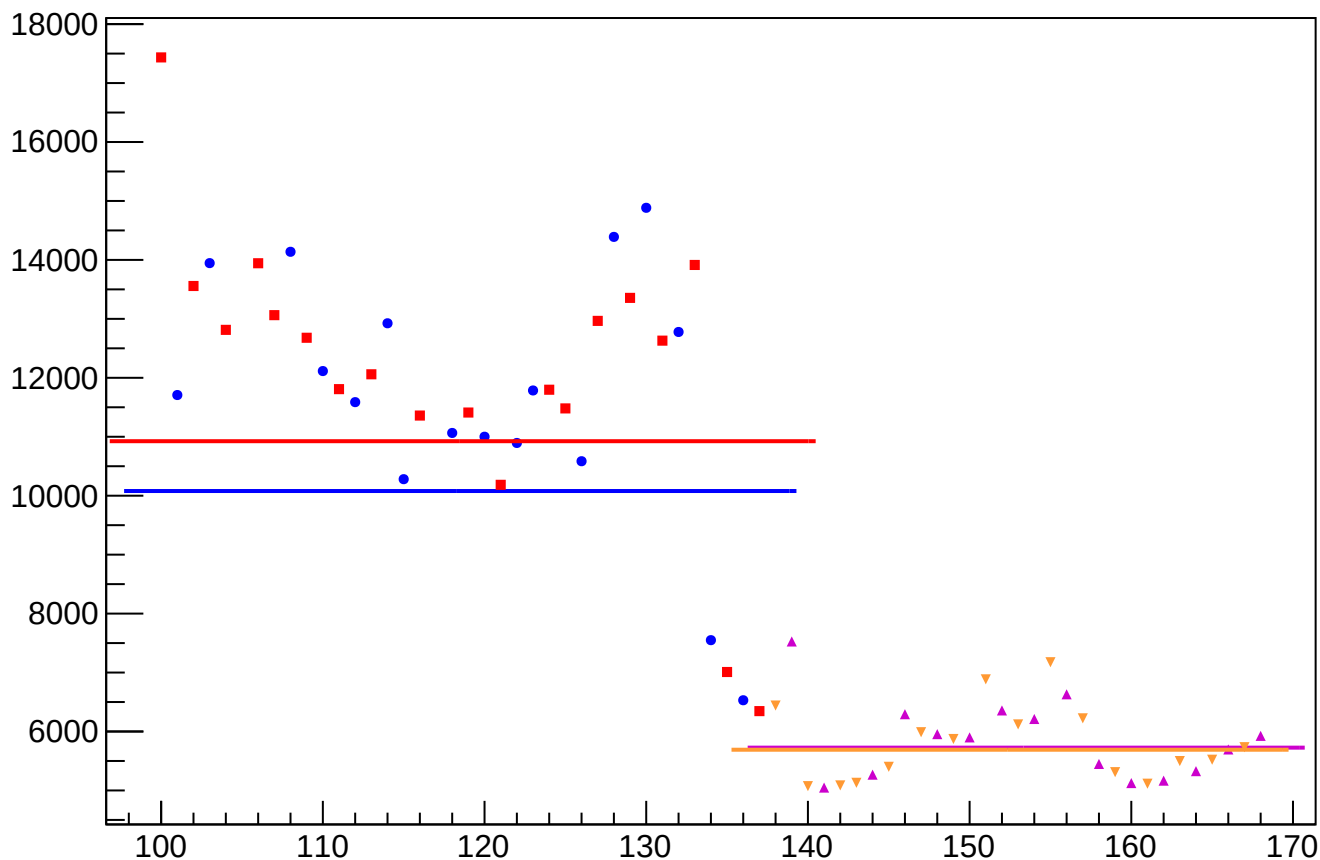
Right: 0.454 ± 2.927 χ^2/NDF : 40.6/35

In: 1.917 ± 1.558 χ^2/NDF : 38.0/31

Out: 7.804 ± 1.547 χ^2/NDF : 57.0/34

All: 4.880 ± 1.098 χ^2/NDF : 102.2/66

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5690.782 $\pm$ 1.176 χ^2/NDF : 246629.5/15

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

Left In: 5726.029 $\pm$ 1.192 χ^2/NDF : 246150.6/14

Left: 5708.163 $\pm$ 0.837 χ^2/NDF : 493223.0/30

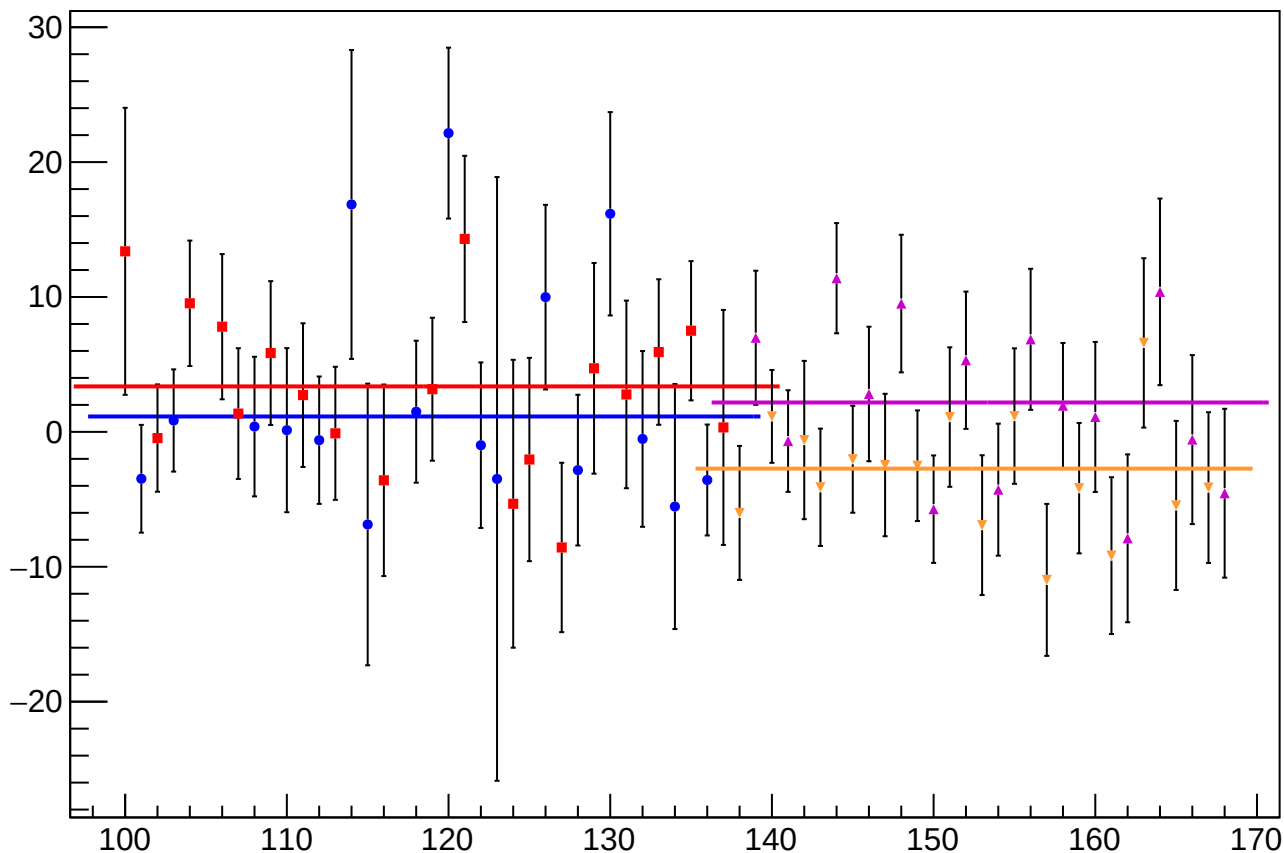
Right: 10486.193 $\pm$ 2.070 χ^2/NDF : 1804751.7/35

In: 6365.507 $\pm$ 1.101 χ^2/NDF : 3198605.4/31

Out: 6394.865 $\pm$ 1.094 χ^2/NDF : 3678707.8/34

All: 6380.282 $\pm$ 0.776 χ^2/NDF : 6877670.7/66

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.725 ± 1.225 $\chi^2/\text{NDF}: 9.7/15$

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

Left In: 2.179 ± 1.285 $\chi^2/\text{NDF}: 21.0/14$

Left: -0.390 ± 0.886 $\chi^2/\text{NDF}: 38.3/30$

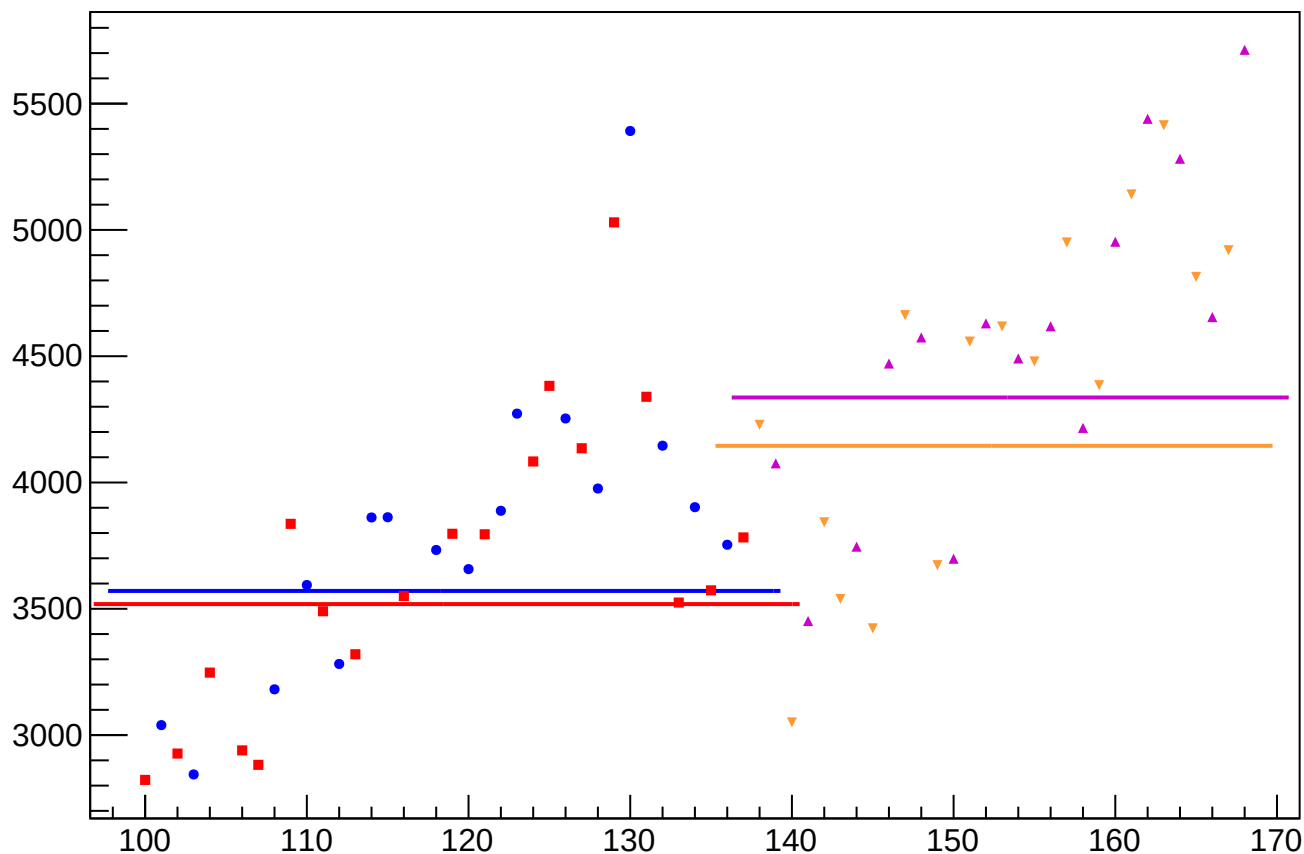
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.703 ± 0.945 $\chi^2/\text{NDF}: 44.5/31$

Out: 0.065 ± 0.902 $\chi^2/\text{NDF}: 36.1/34$

All: 0.846 ± 0.652 $\chi^2/\text{NDF}: 82.2/66$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4145.225 $\pm$ 0.866 χ^2 /NDF: 644990.7/15

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

Left In: 4336.535 $\pm$ 0.908 χ^2 /NDF: 457333.9/14

Left: 4236.296 $\pm$ 0.627 χ^2 /NDF: 1125562.3/30

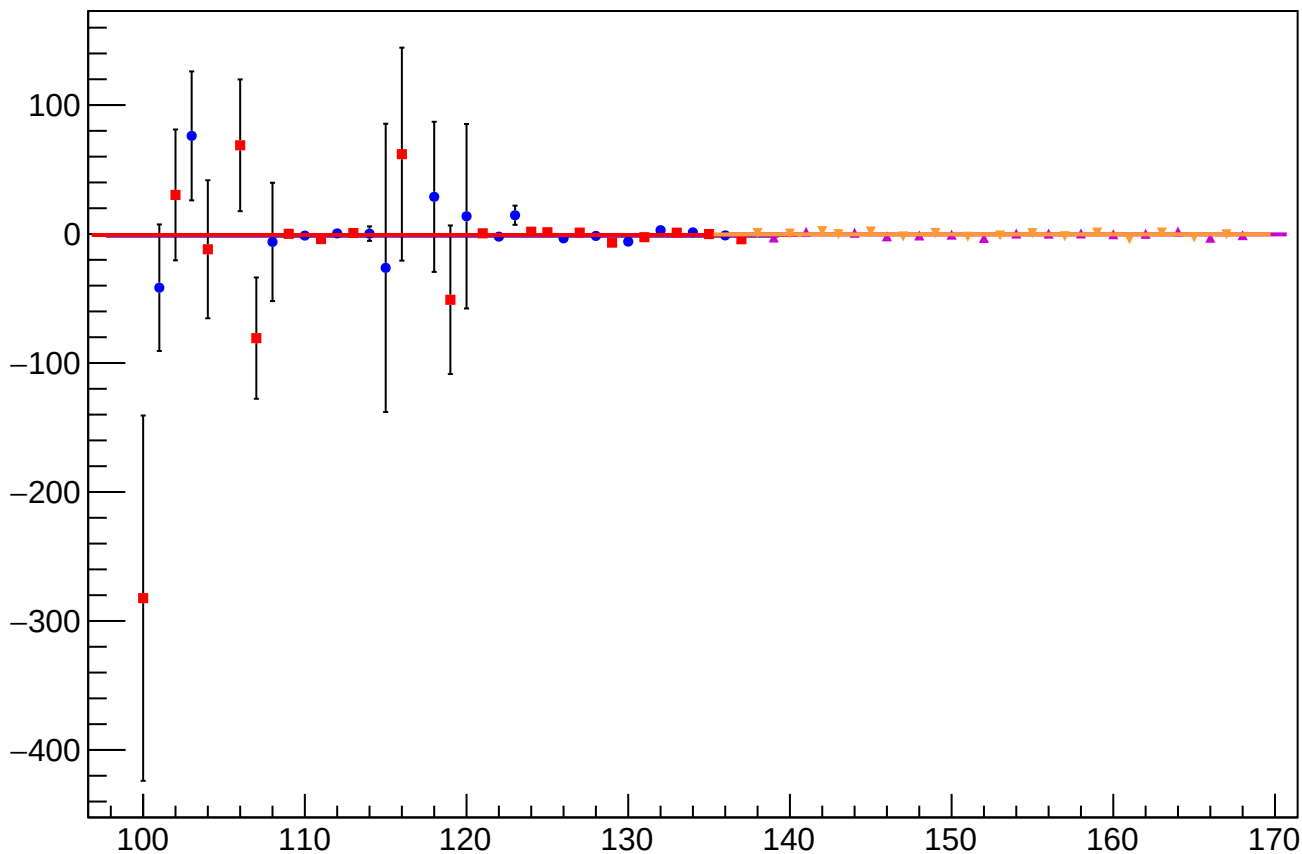
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 3985.140 $\pm$ 0.668 χ^2 /NDF: 1092994.7/31

Out: 3858.479 $\pm$ 0.638 χ^2 /NDF: 1177860.3/34

All: 3918.846 $\pm$ 0.461 χ^2 /NDF: 2289657.5/66

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.273 ± 0.307 χ^2/NDF : 29.8/15

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

Left In: -0.276 ± 0.309 χ^2/NDF : 22.2/14

Left: -0.275 ± 0.218 χ^2/NDF : 52.0/30

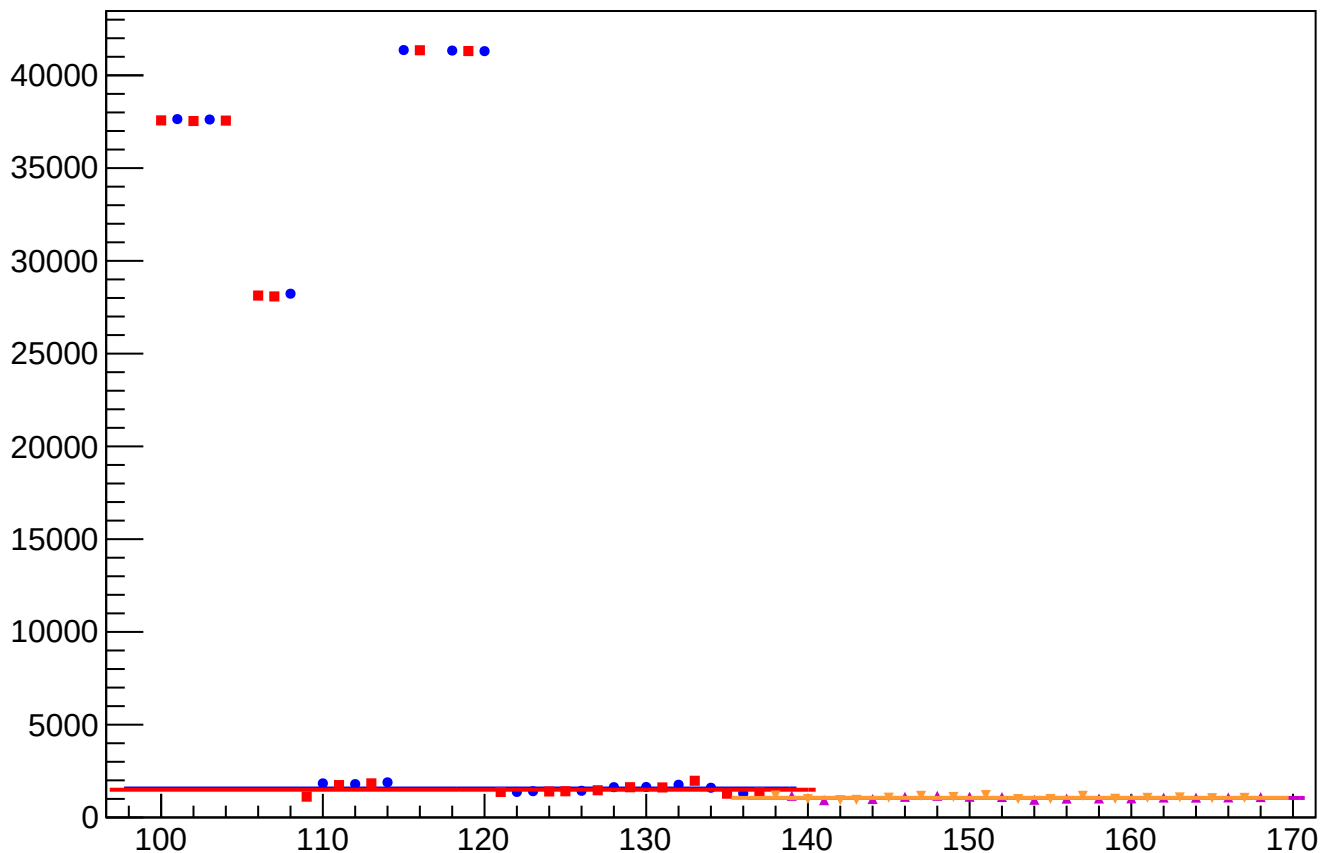
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.420 ± 0.285 χ^2/NDF : 40.0/31

Out: -0.346 ± 0.282 χ^2/NDF : 52.2/34

All: -0.382 ± 0.201 χ^2/NDF : 92.2/66

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.422 $\pm$ 0.217 χ^2/NDF : 129624.8/15

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

Left In: 1051.665 $\pm$ 0.218 χ^2/NDF : 101914.9/14

Left: 1053.051 $\pm$ 0.154 χ^2/NDF : 231619.8/30

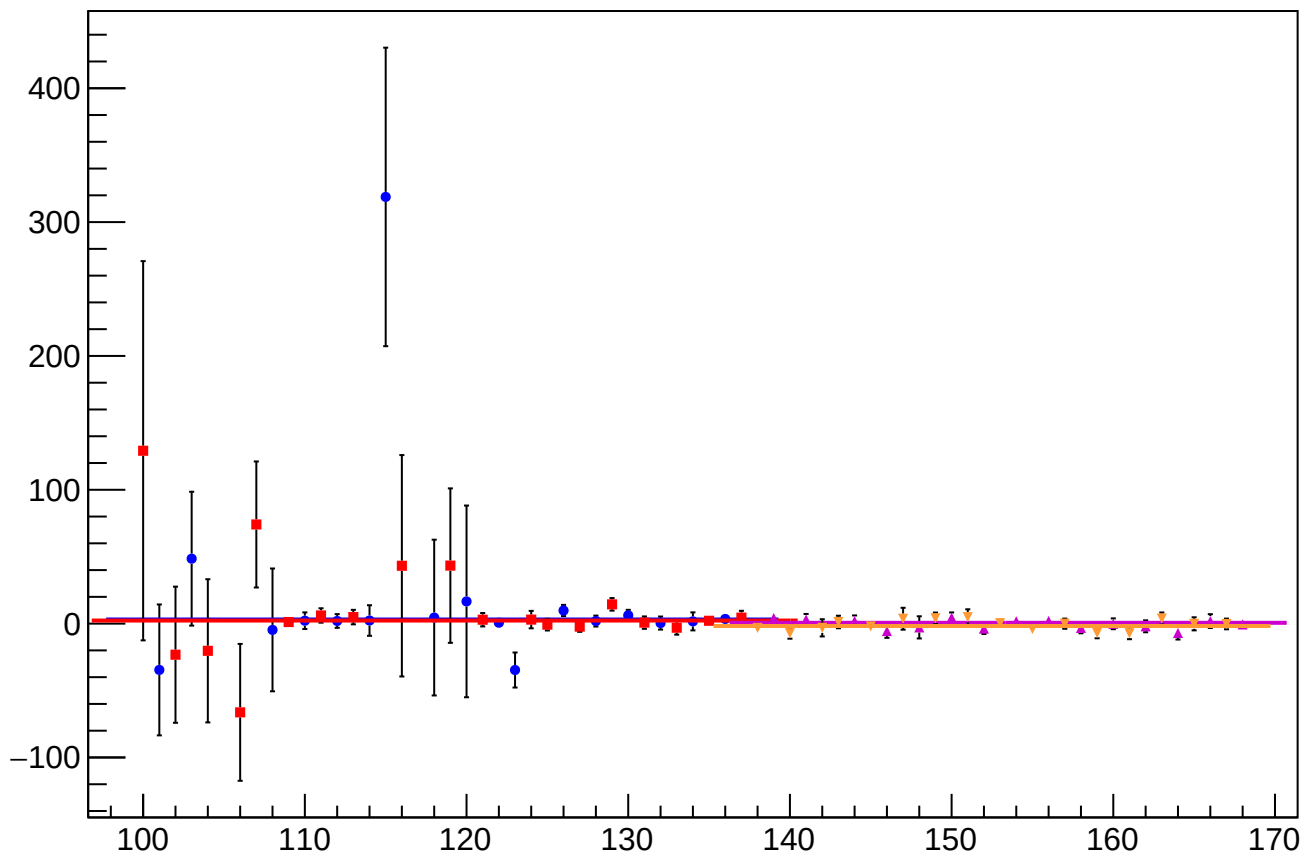
Right: 1525.146 $\pm$ 0.364 χ^2/NDF : 9654379.4/35

In: 1125.581 $\pm$ 0.202 χ^2/NDF : 5641853.7/31

Out: 1123.722 $\pm$ 0.199 χ^2/NDF : 5669770.1/34

All: 1124.640 $\pm$ 0.142 χ^2/NDF : 11311666.8/66

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -1.771 ± 1.005 $\chi^2/\text{NDF}: 12.1/15$

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

Left In: 0.611 ± 1.021 $\chi^2/\text{NDF}: 10.7/14$

Left: -0.598 ± 0.716 $\chi^2/\text{NDF}: 25.6/30$

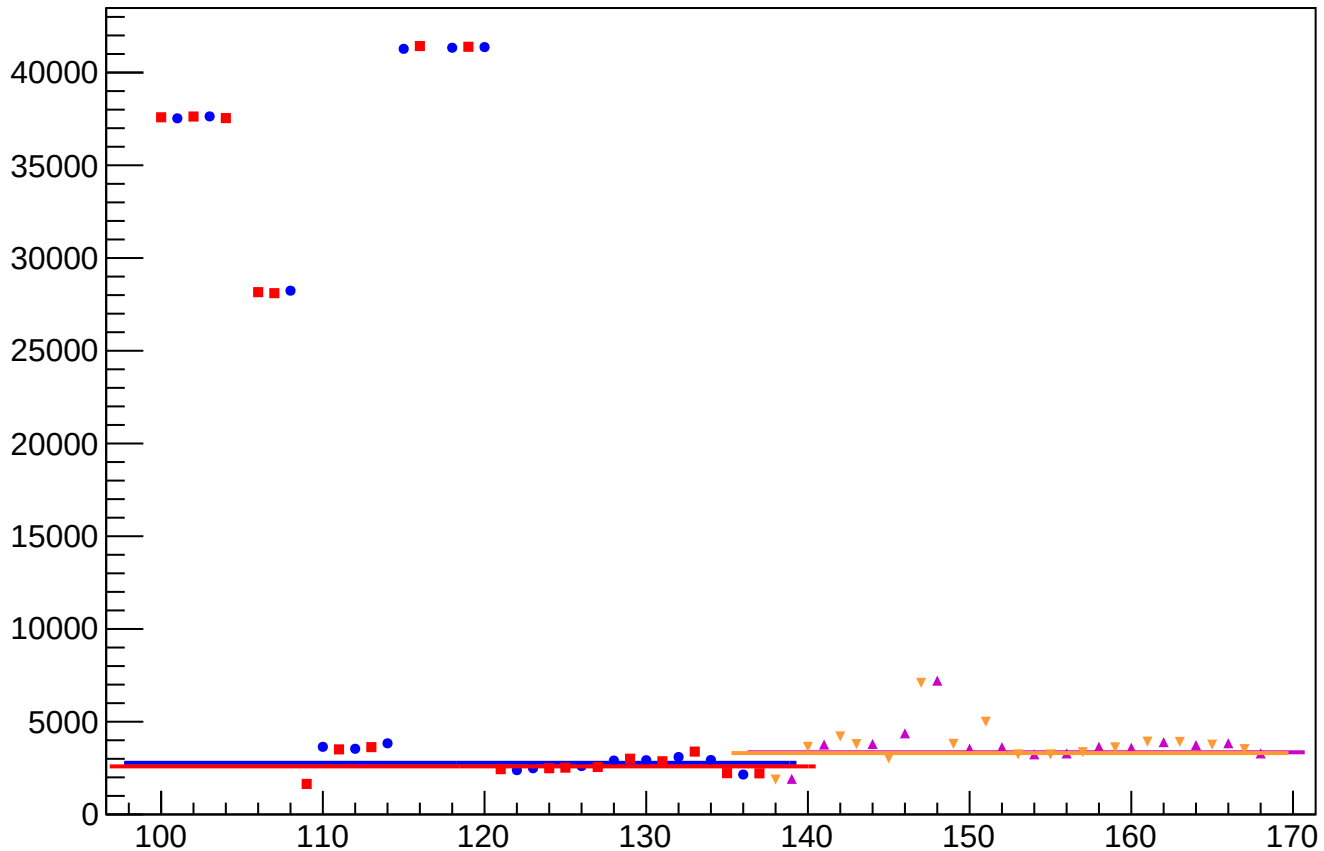
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.530 ± 0.808 $\chi^2/\text{NDF}: 34.8/31$

Out: -0.146 ± 0.779 $\chi^2/\text{NDF}: 35.6/34$

All: 0.662 ± 0.561 $\chi^2/\text{NDF}: 72.6/66$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3308.874+/-0.711 χ^2/NDF : 1616670.1/15

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

Left In: 3351.716+/-0.722 χ^2/NDF : 1389013.5/14

Left: 3329.960+/-0.506 χ^2/NDF : 3007472.3/30

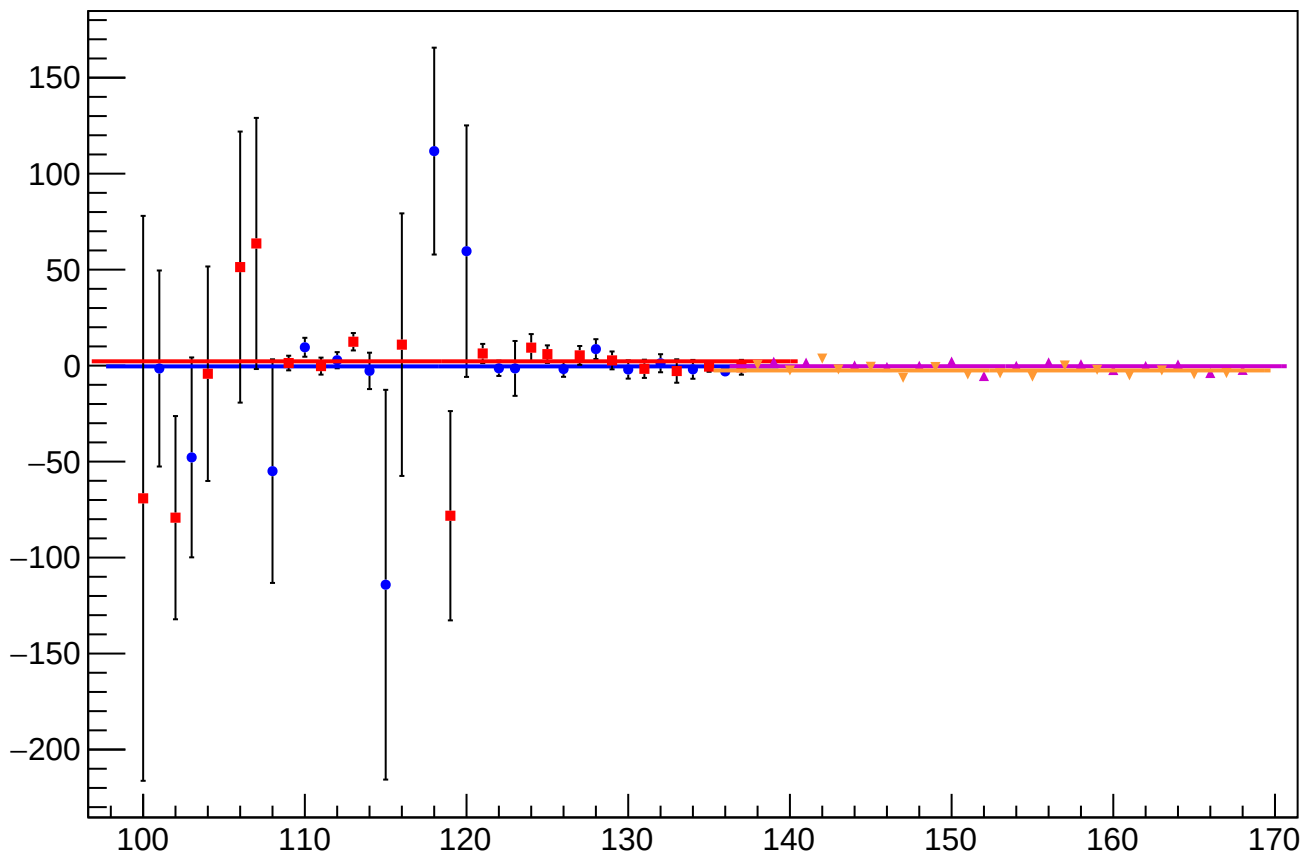
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3139.871+/-0.572 χ^2/NDF : 6197225.3/31

Out: 3022.799+/-0.551 χ^2/NDF : 6869927.6/34

All: 3079.206+/-0.397 χ^2/NDF : 13088894.2/66

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -2.508 ± 0.483 χ^2/NDF : 24.6/15

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

Left In: -0.311 ± 0.488 χ^2/NDF : 17.2/14

Left: -1.422 ± 0.343 χ^2/NDF : 52.0/30

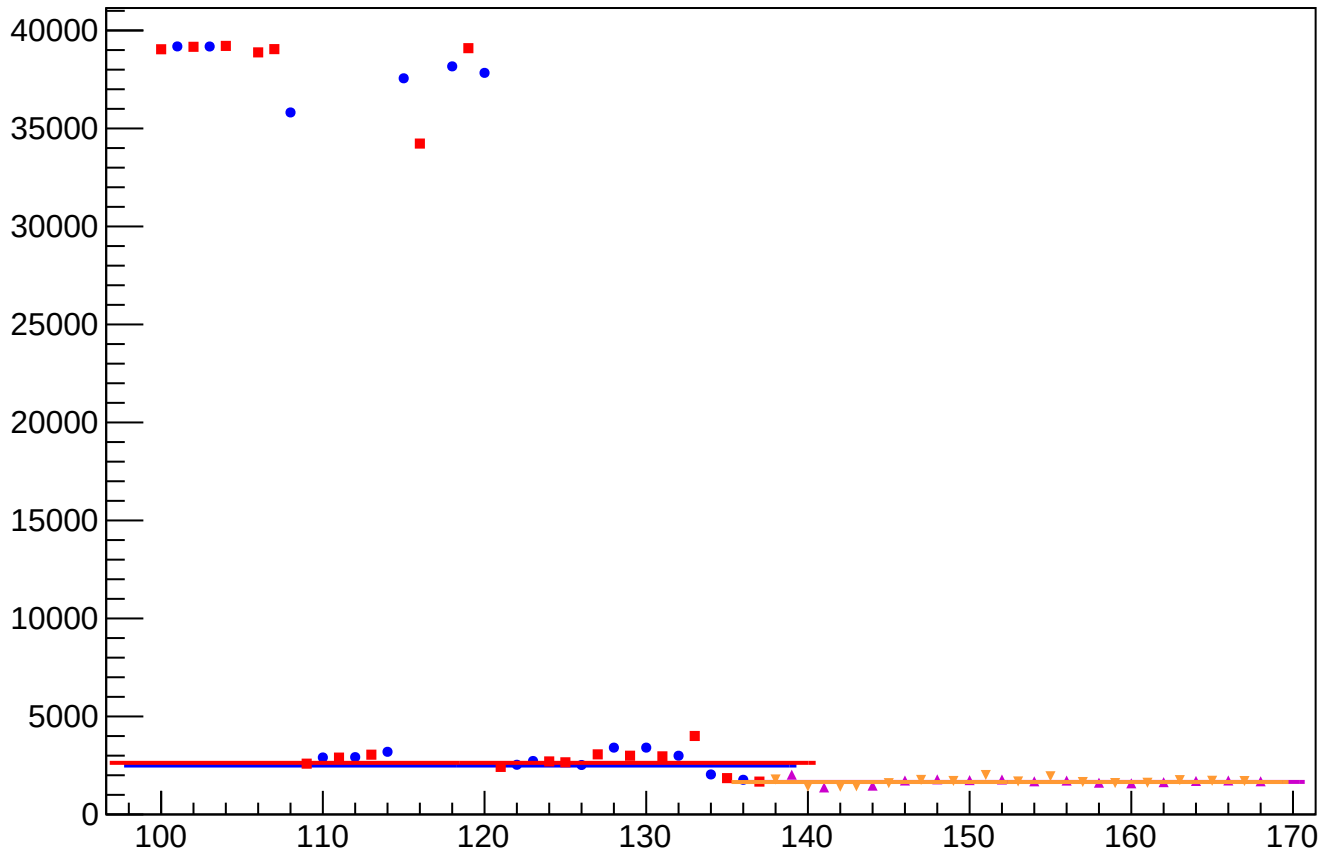
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.324 ± 0.453 χ^2/NDF : 35.4/31

Out: -1.888 ± 0.450 χ^2/NDF : 54.7/34

All: -1.111 ± 0.319 χ^2/NDF : 96.2/66

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1654.459+/-0.341 χ^2/NDF : 212320.8/15

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

Left In: 1659.817+/-0.345 χ^2/NDF : 177265.1/14

Left: 1657.108+/-0.243 χ^2/NDF : 389707.7/30

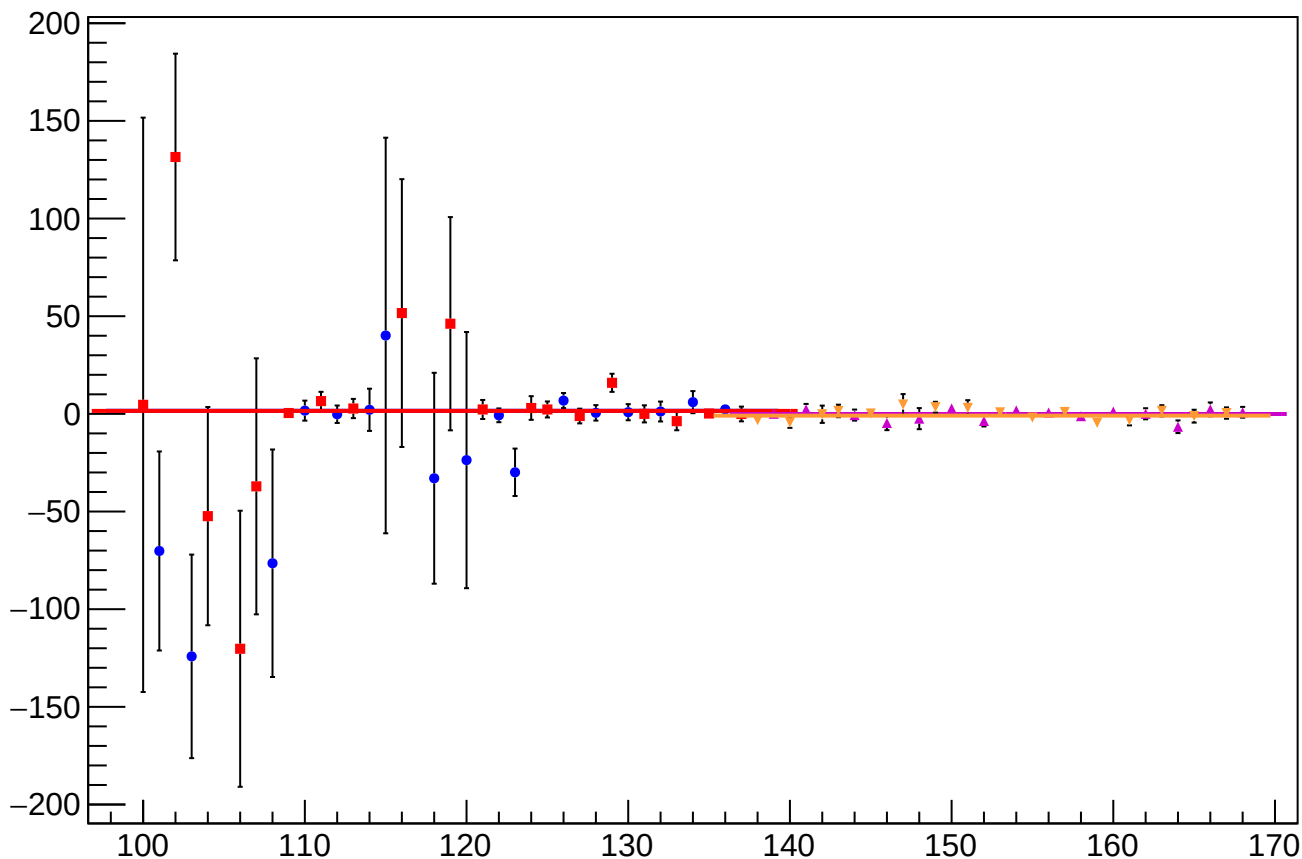
Right: 2562.854+/-0.616 χ^2/NDF : 9755329.9/35

In: 1775.553+/-0.320 χ^2/NDF : 5871147.7/31

Out: 1782.267+/-0.318 χ^2/NDF : 6145966.6/34

All: 1778.932+/-0.226 χ^2/NDF : 12017335.2/6

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -0.905 ± 0.662 $\chi^2/\text{NDF}: 14.8/15$

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

Left In: -0.062 ± 0.653 $\chi^2/\text{NDF}: 11.2/14$

Left: -0.478 ± 0.465 $\chi^2/\text{NDF}: 26.7/30$

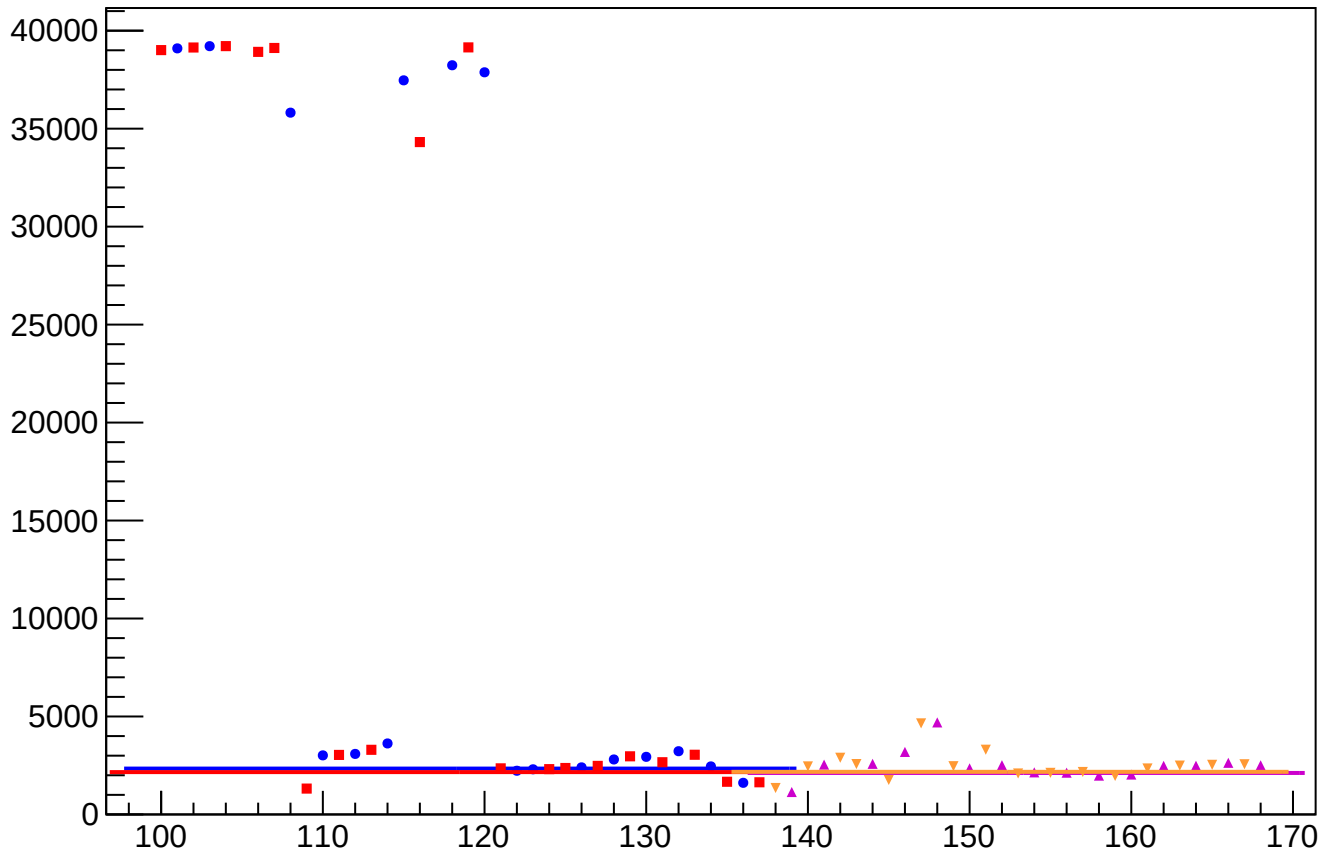
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.342 ± 0.567 $\chi^2/\text{NDF}: 33.0/31$

Out: -0.225 ± 0.562 $\chi^2/\text{NDF}: 43.6/34$

All: 0.056 ± 0.399 $\chi^2/\text{NDF}: 77.1/66$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2175.514+/-0.468 χ^2/NDF : 1377708.8/15

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

Left In: 2117.698+/-0.462 χ^2/NDF : 1919043.2/14

Left: 2146.220+/-0.329 χ^2/NDF : 3304475.7/30

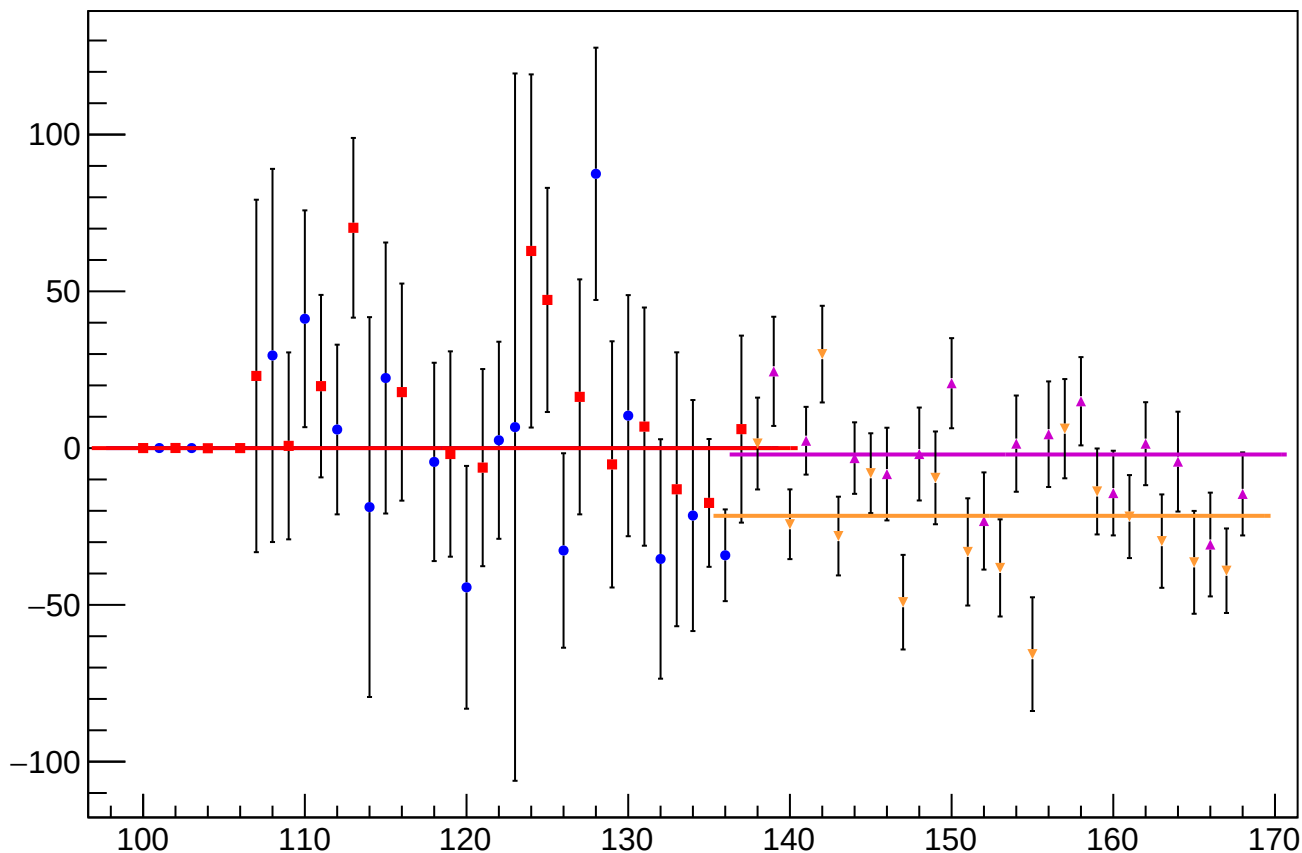
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2172.739+/-0.401 χ^2/NDF : 6983509.1/31

Out: 2171.496+/-0.397 χ^2/NDF : 6677021.8/34

All: 2172.112+/-0.282 χ^2/NDF : 13660535.7/69

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 16.2/16$

Left Out: -21.596 ± 3.585 $\chi^2/\text{NDF}: 32.9/15$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.9/18$

Left In: -2.035 ± 3.652 $\chi^2/\text{NDF}: 13.5/14$

Left: -11.996 ± 2.558 $\chi^2/\text{NDF}: 61.0/30$

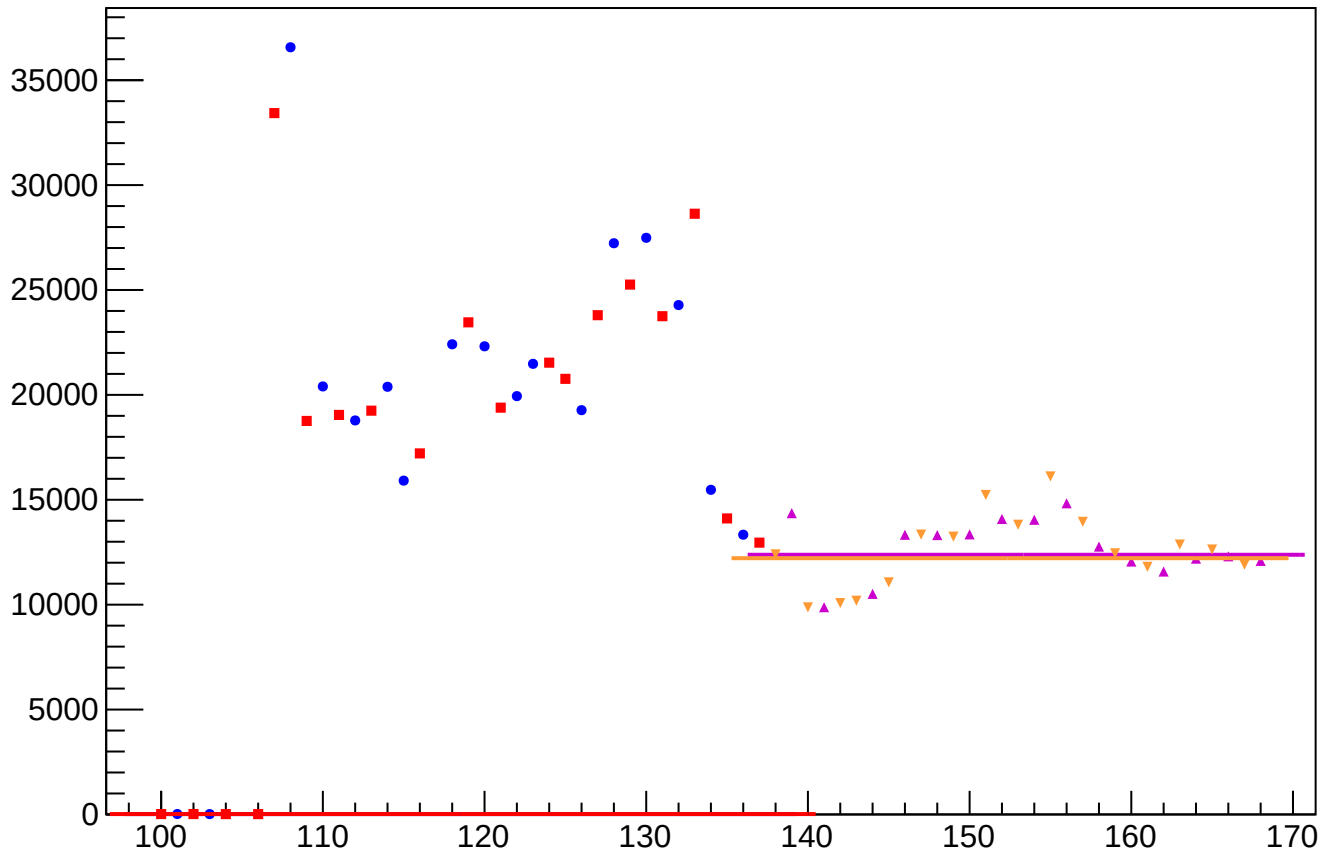
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 30.0/31$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 85.0/34$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 115.5/66$

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12214.767 $\pm$ 2.535 χ^2 /NDF: 425187.5/15

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

Left In: 12378.315 $\pm$ 2.582 χ^2 /NDF: 313394.4/14

Left: 12295.035 $\pm$ 1.809 χ^2 /NDF: 740624.6/30

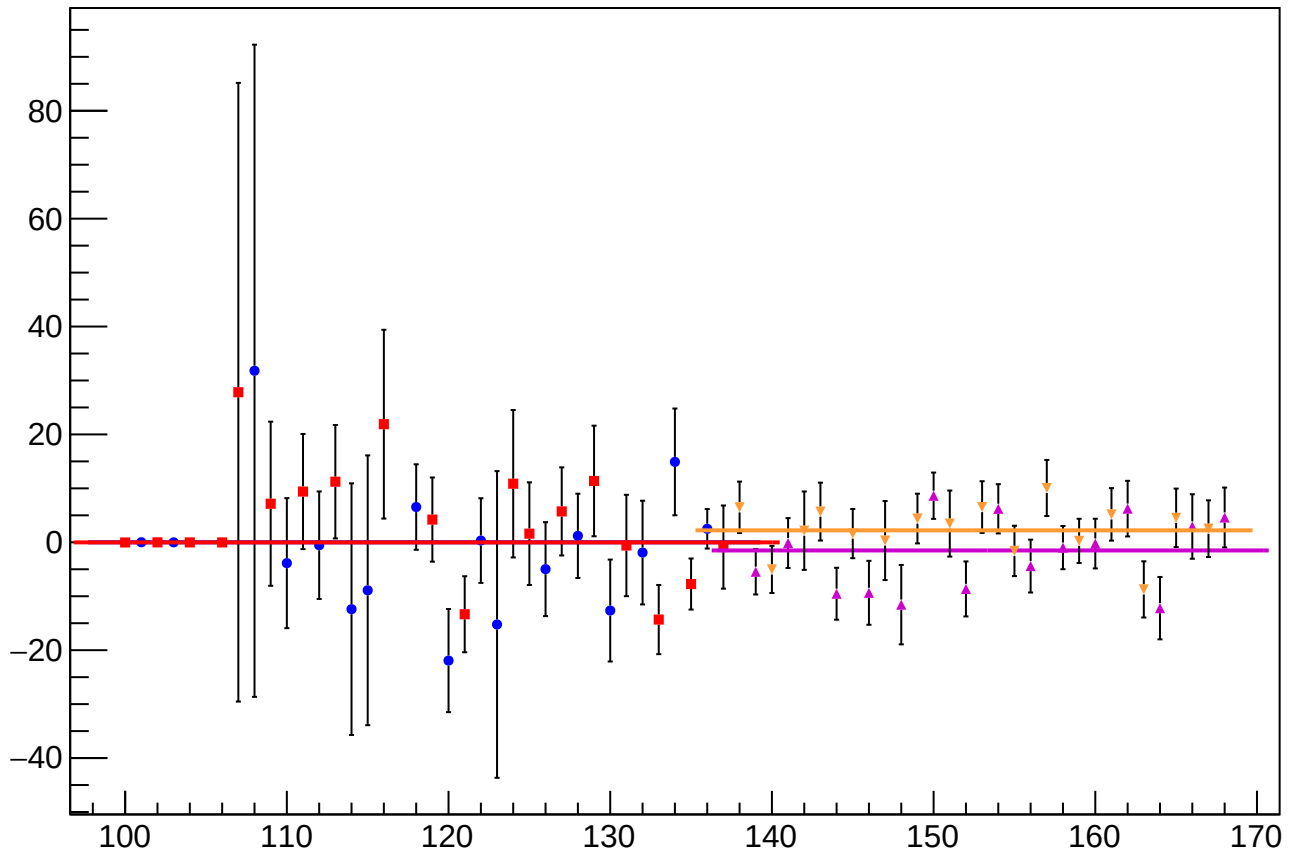
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.920 $\pm$ 0.012 χ^2 /NDF: 34207520.3/31

Out: 18.557 $\pm$ 0.011 χ^2 /NDF: 34681637.6/34

All: 18.725 $\pm$ 0.008 χ^2 /NDF: 68889631.1/66

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 2.217 ± 1.264 χ^2/NDF : 13.3/15

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

Left In: -1.509 ± 1.277 χ^2/NDF : 25.7/14

Left: 0.374 ± 0.898 χ^2/NDF : 43.3/30

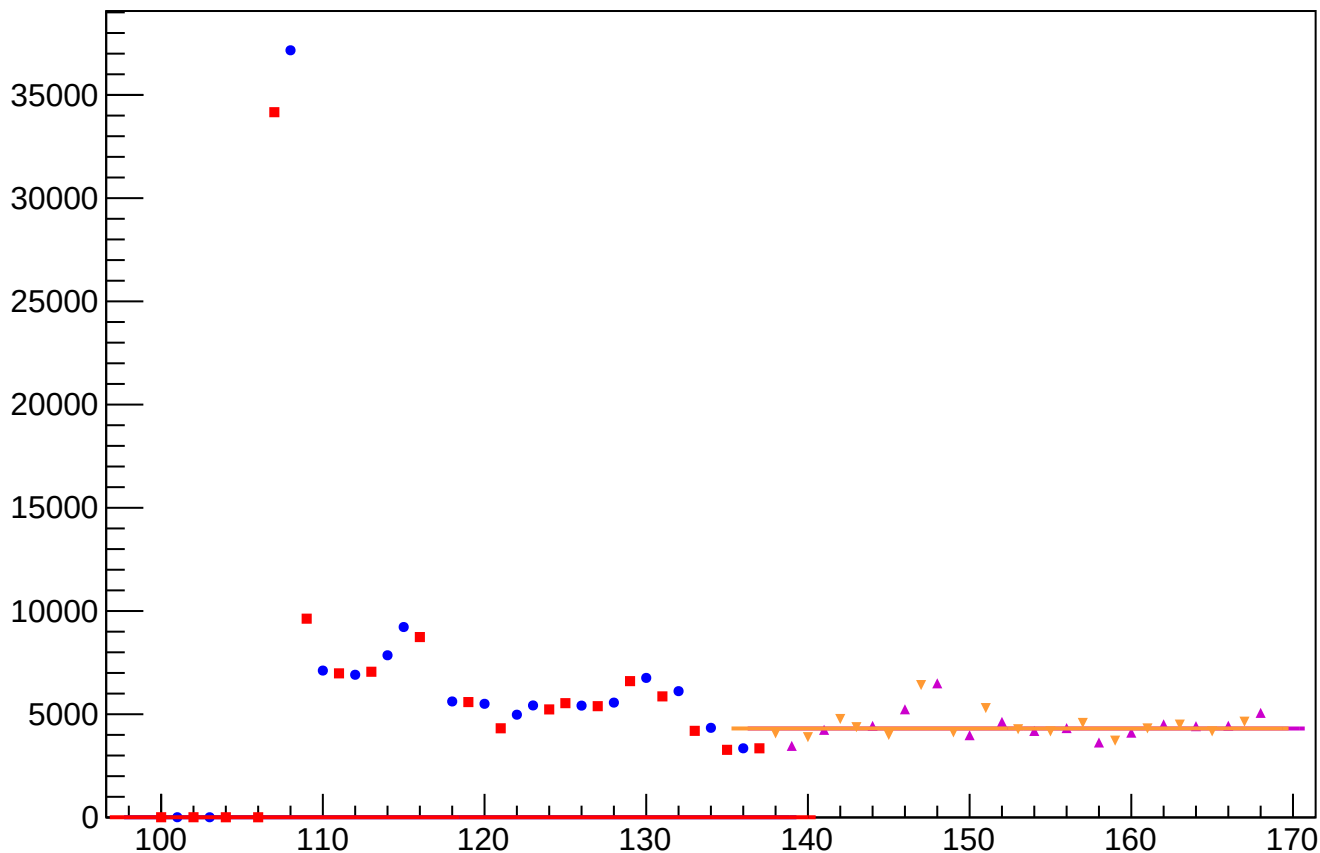
Right: -0.007 ± 0.006 χ^2/NDF : 33.0/35

In: 0.001 ± 0.009 χ^2/NDF : 40.1/31

Out: -0.014 ± 0.009 χ^2/NDF : 35.0/34

All: -0.007 ± 0.006 χ^2/NDF : 76.4/66

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11114526.8/16

Left Out: 4310.627 $\pm$ 0.894 χ^2 /NDF:322241.9/15

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11159992.3/18

Left In: 4308.899 $\pm$ 0.903 χ^2 /NDF:431077.8/14

Left: 4309.772 $\pm$ 0.635 χ^2 /NDF: 753321.5/30

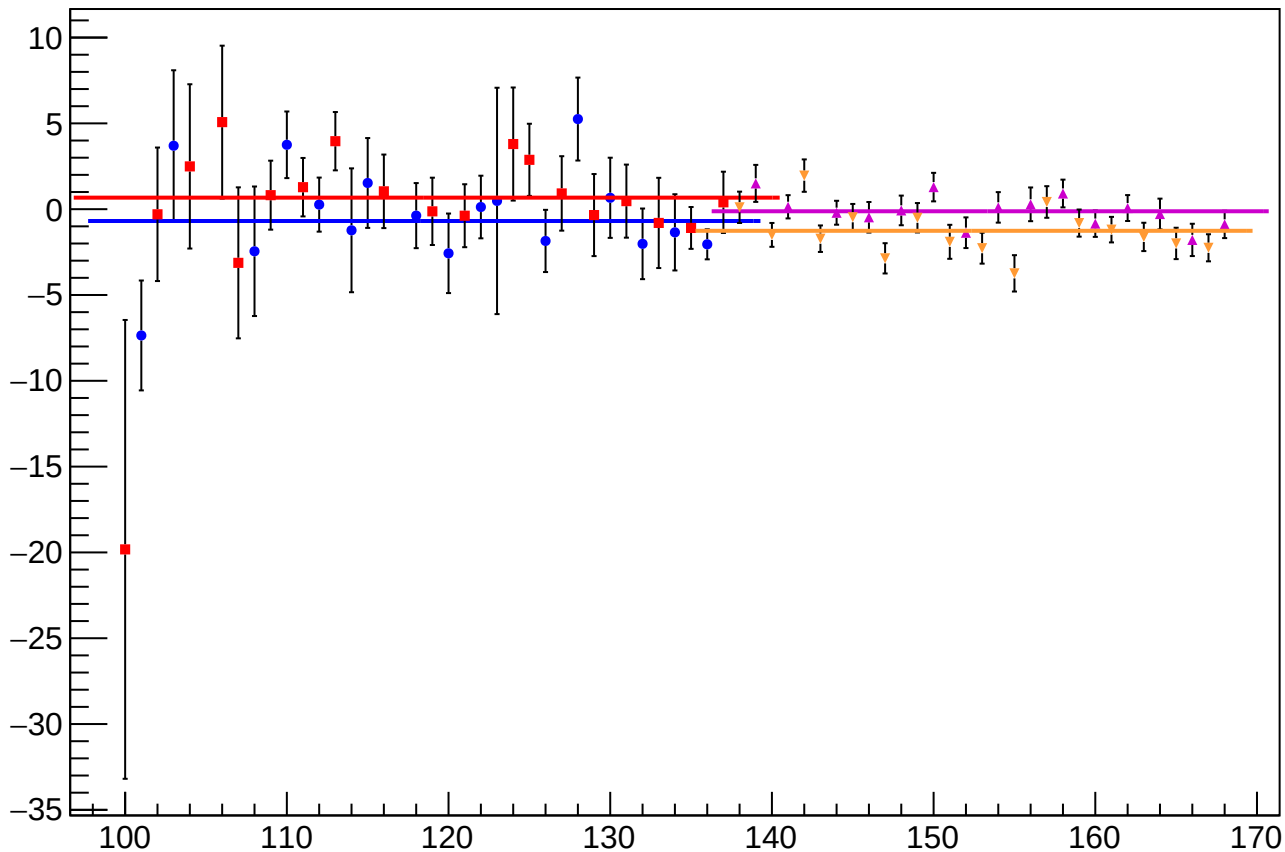
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

In: 10.162 $\pm$ 0.007 χ^2 /NDF:34199816.2/31

Out: 10.056 $\pm$ 0.006 χ^2 /NDF:34636833.2/34

All: 10.106 $\pm$ 0.004 χ^2 /NDF: 68836791.1/66

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 χ^2/NDF : 22.5/16

Left Out: -1.260 ± 0.211 χ^2/NDF : 32.7/15

Right Out: 0.672 ± 0.501 χ^2/NDF : 13.3/18

Left In: -0.121 ± 0.215 χ^2/NDF : 14.3/14

Left: -0.701 ± 0.151 χ^2/NDF : 61.3/30

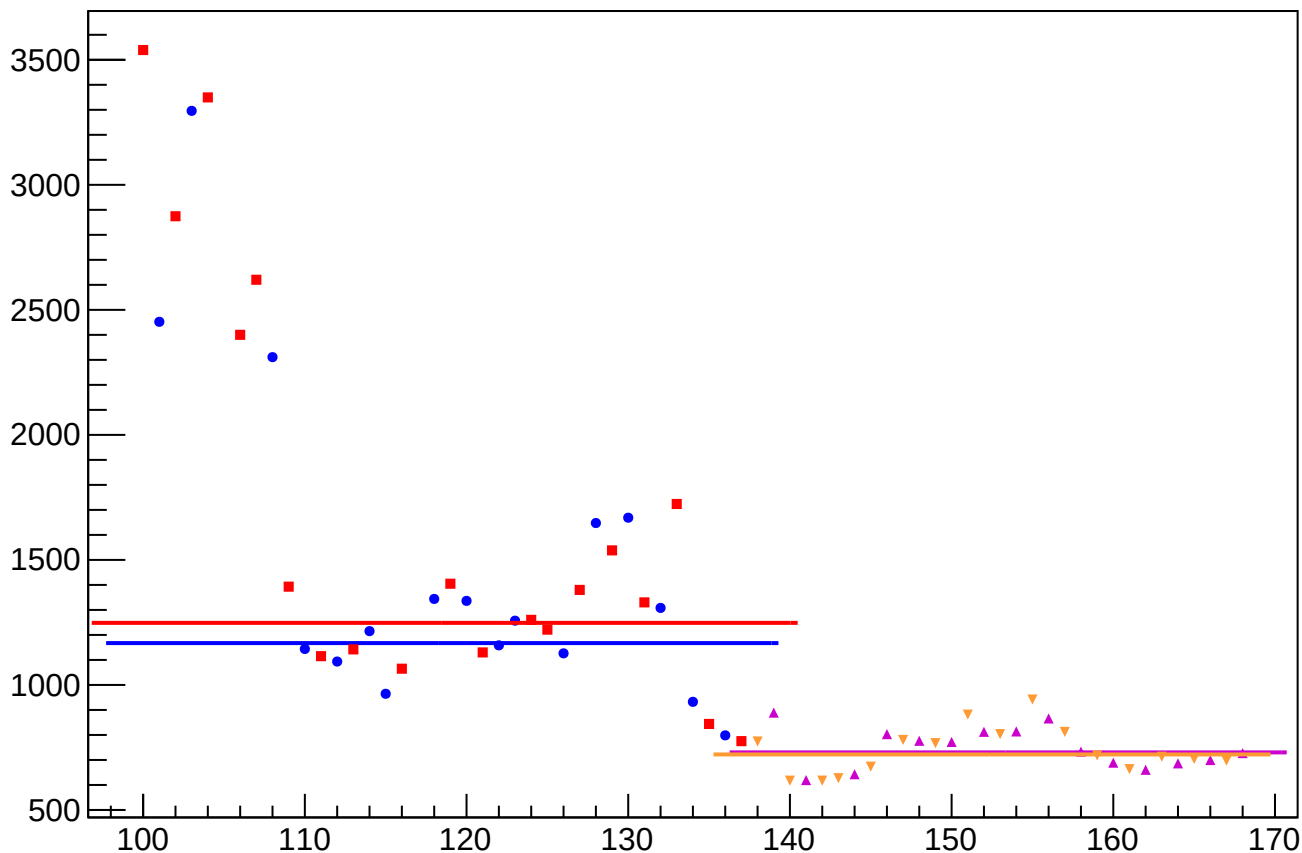
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.215 ± 0.196 χ^2/NDF : 38.0/31

Out: -0.968 ± 0.195 χ^2/NDF : 58.7/34

All: -0.595 ± 0.138 χ^2/NDF : 104.0/66

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 $\pm$ 0.341 χ^2 /NDF: 1578328.1/16

Left Out: 722.052 $\pm$ 0.149 χ^2 /NDF: 317616.6/15

Right Out: 1248.241 $\pm$ 0.354 χ^2 /NDF: 1654028.9/18

Left In: 730.264 $\pm$ 0.152 χ^2 /NDF: 255207.9/14

Left: 726.086 $\pm$ 0.107 χ^2 /NDF: 574307.7/30

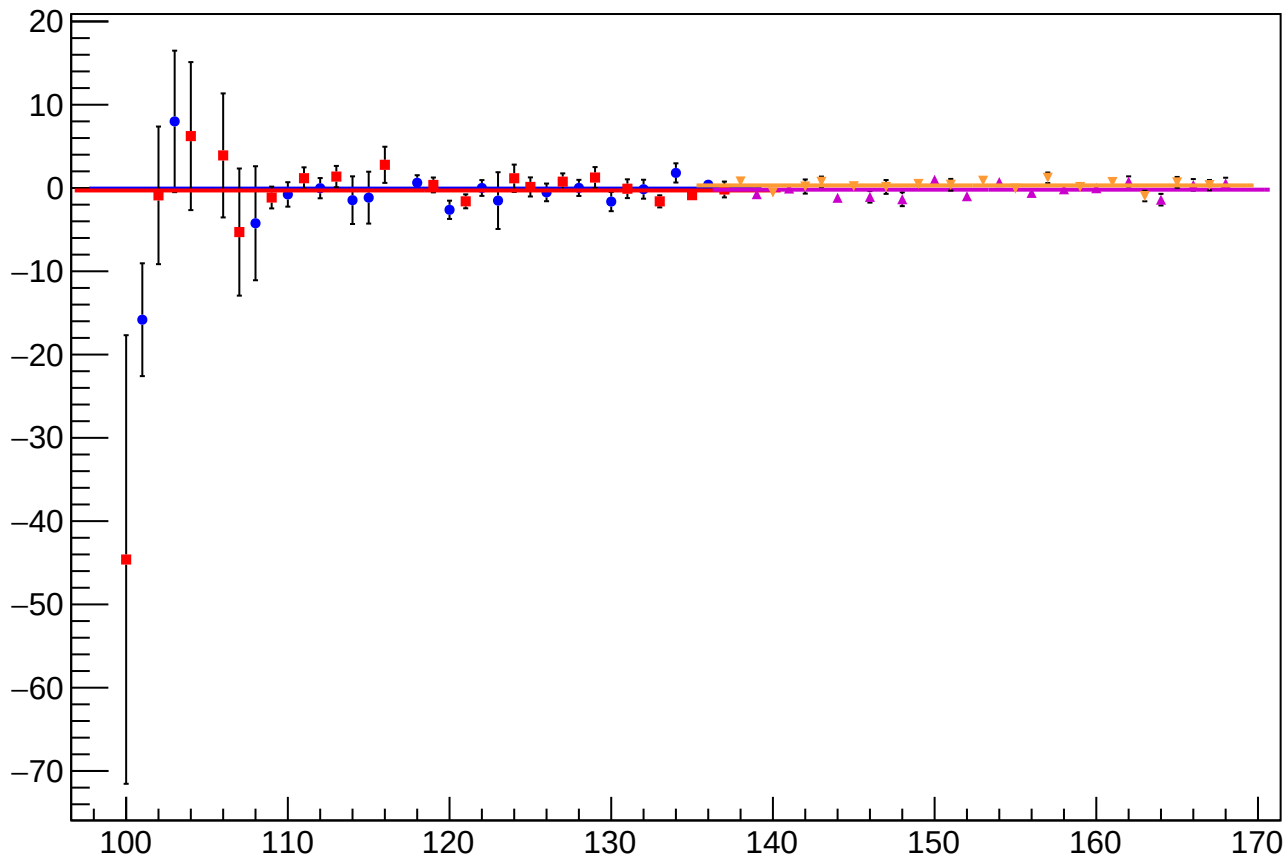
Right: 1206.306 $\pm$ 0.246 χ^2 /NDF: 3259405.5/35

In: 802.792 $\pm$ 0.139 χ^2 /NDF: 3204044.2/31

Out: 801.636 $\pm$ 0.138 χ^2 /NDF: 3846547.0/34

All: 802.208 $\pm$ 0.098 χ^2 /NDF: 7050626.1/66

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.312 ± 0.151 χ^2/NDF : 12.6/15

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

Left In: -0.199 ± 0.154 χ^2/NDF : 25.3/14

Left: 0.060 ± 0.108 χ^2/NDF : 43.5/30

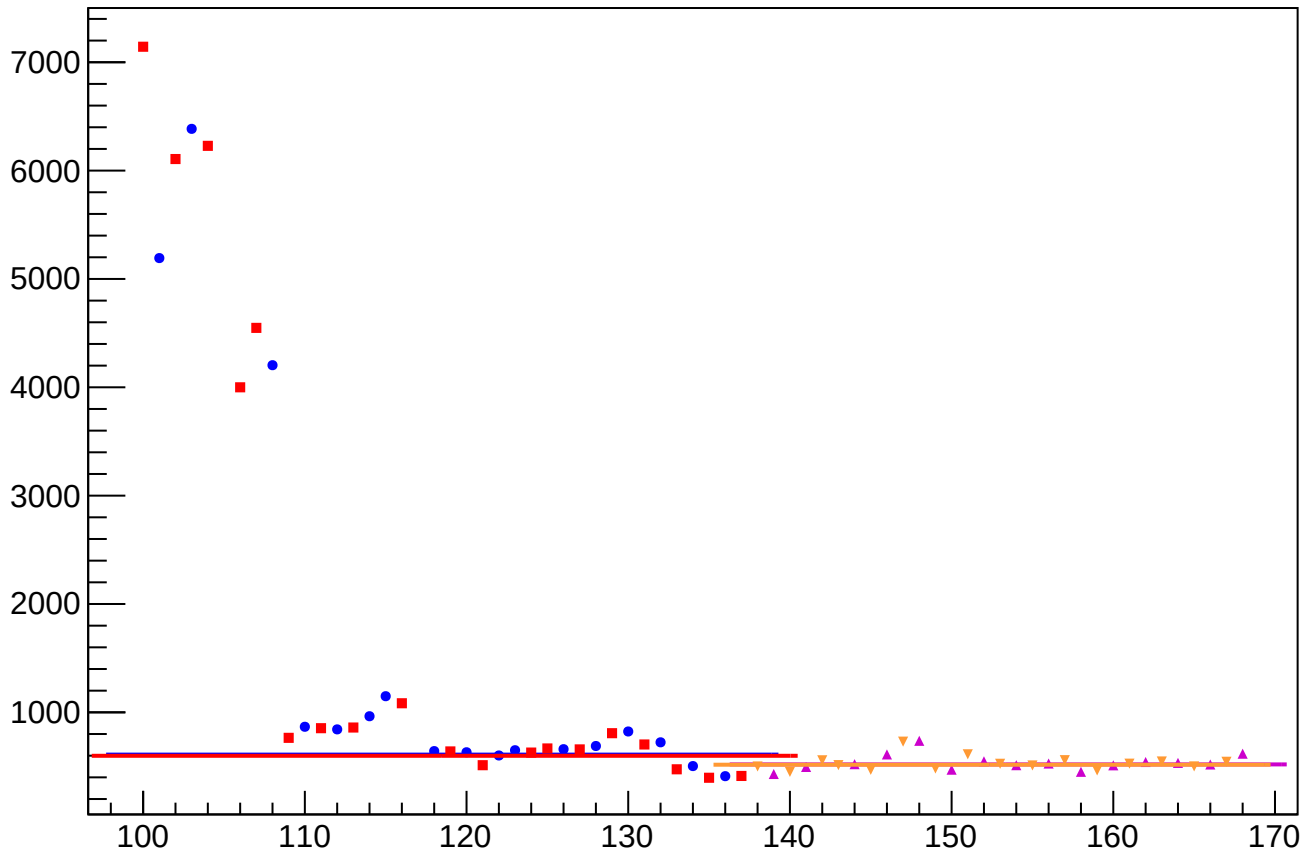
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.168 ± 0.133 χ^2/NDF : 44.7/31

Out: 0.162 ± 0.131 χ^2/NDF : 36.8/34

All: -0.000 ± 0.094 χ^2/NDF : 84.6/66

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 516.608+/-0.107 χ^2/NDF : 273073.8/15

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

Left In: 519.488+/-0.109 χ^2/NDF : 340510.0/14

Left: 518.026+/-0.076 χ^2/NDF : 613940.8/30

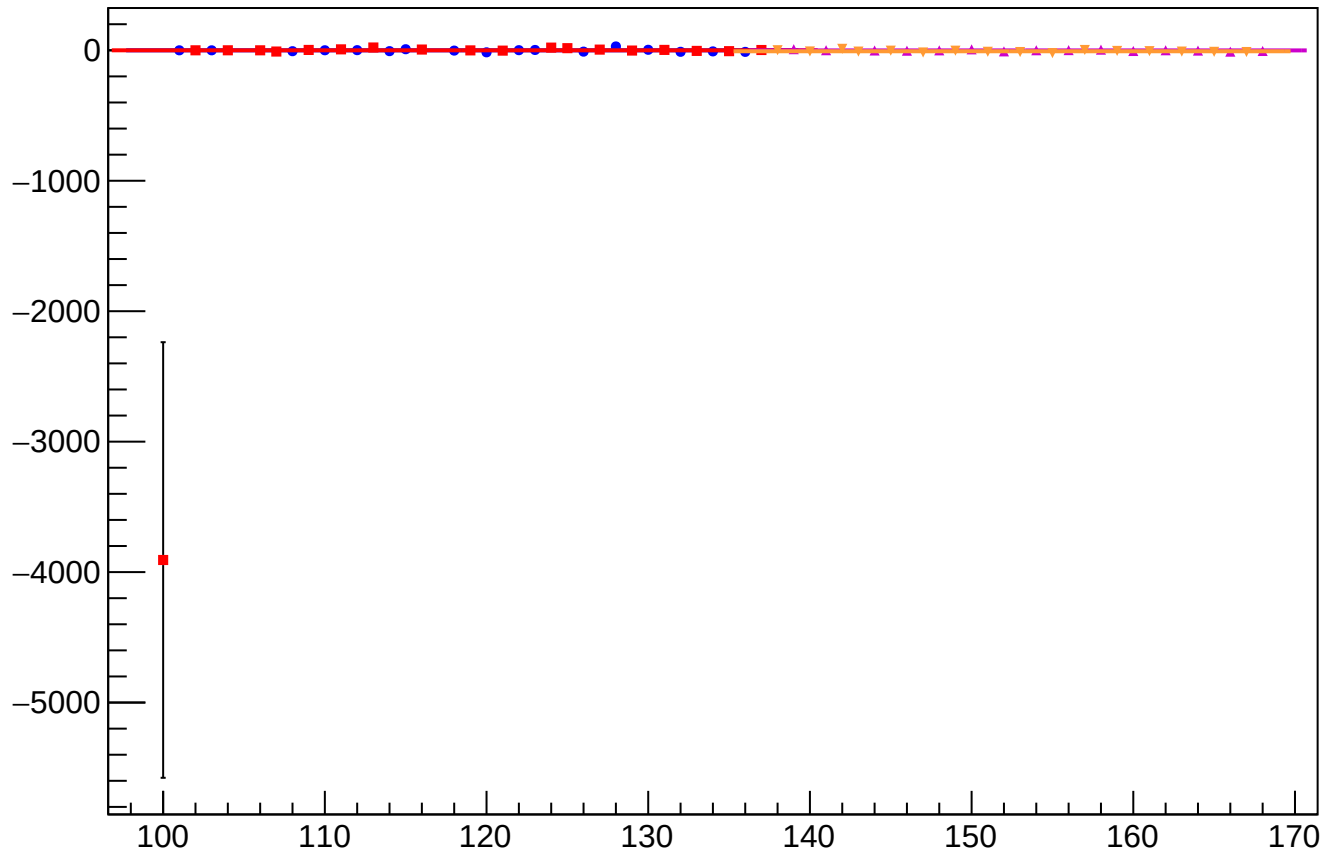
Right: 604.304+/-0.133 χ^2/NDF : 6689999.6/35

In: 541.747+/-0.094 χ^2/NDF : 3646799.7/31

Out: 536.981+/-0.093 χ^2/NDF : 3972266.0/34

All: 539.326+/-0.066 χ^2/NDF : 7620363.7/66

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -7.282 ± 1.232 χ^2/NDF : 32.9/15

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

Left In: -0.720 ± 1.255 χ^2/NDF : 14.0/14

Left: -4.063 ± 0.879 χ^2/NDF : 60.7/30

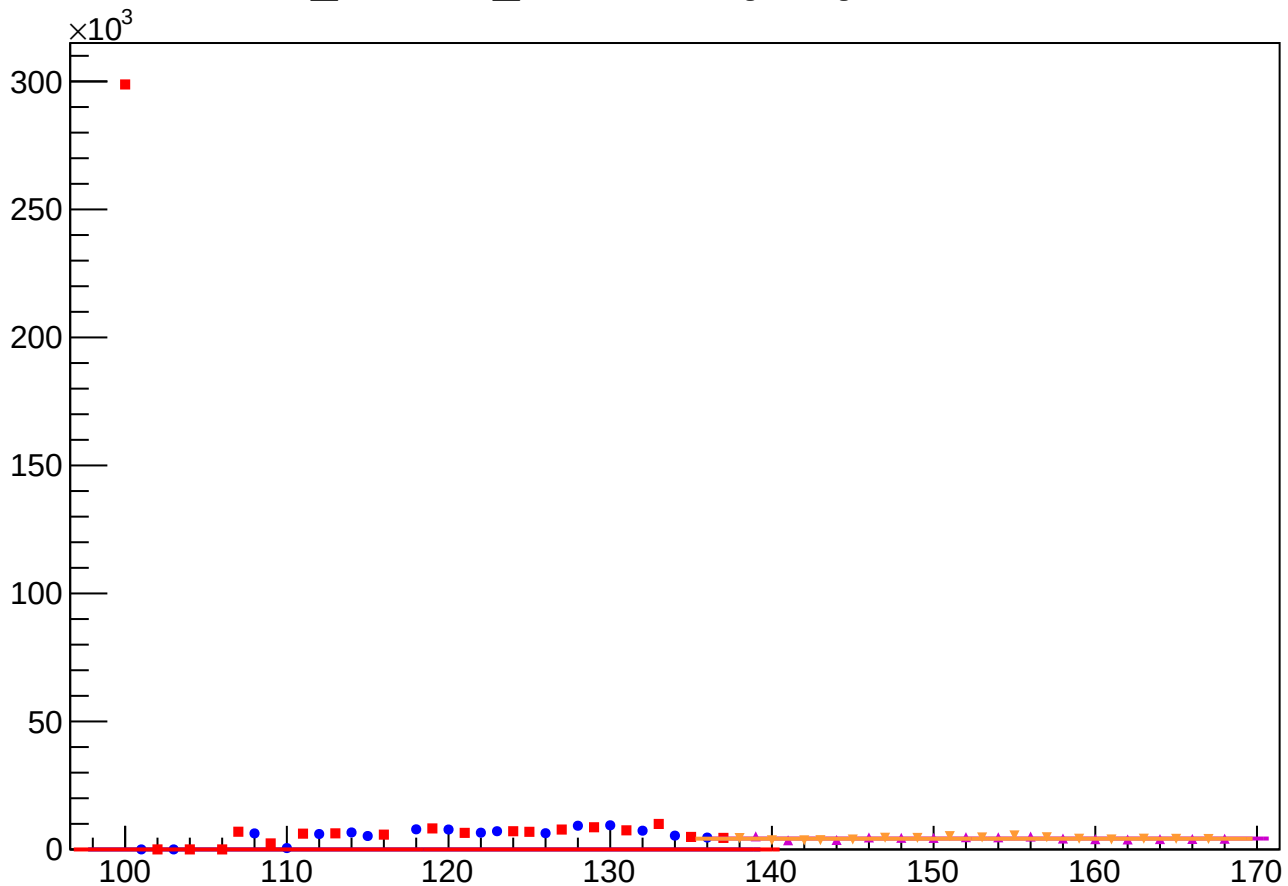
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 29.9/31

Out: 0.025 ± 0.020 χ^2/NDF : 85.9/34

All: 0.003 ± 0.014 χ^2/NDF : 118.5/66

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2/NDF : 10501445.0/16

Left Out: 4207.424+/-0.871 χ^2/NDF : 335427.4/15

Right Out: 17.269+/-0.014 χ^2/NDF : 10820611.7/18

Left In: 4262.092+/-0.888 χ^2/NDF : 259037.6/14

Left: 4234.244+/-0.622 χ^2/NDF : 596396.7/30

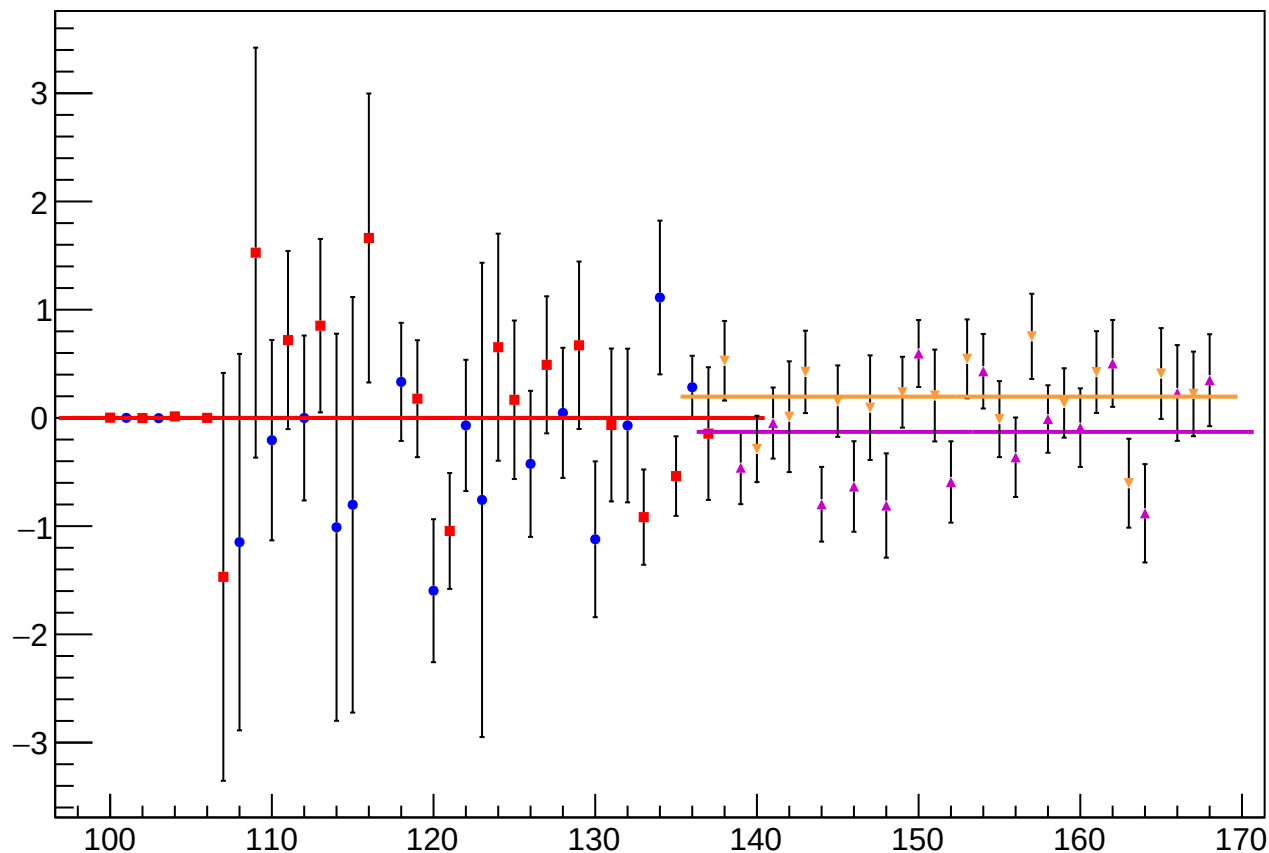
Right: 17.303+/-0.010 χ^2/NDF : 21322069.2/35

In: 18.505+/-0.015 χ^2/NDF : 33615647.2/31

Out: 18.348+/-0.014 χ^2/NDF : 34280934.0/34

All: 18.422+/-0.010 χ^2/NDF : 67896641.0/66

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 13.8/16

Left Out: 0.197 ± 0.094 χ^2/NDF : 11.6/15

Right Out: -0.001 ± 0.002 χ^2/NDF : 17.9/18

Left In: -0.129 ± 0.096 χ^2/NDF : 25.6/14

Left: 0.037 ± 0.067 χ^2/NDF : 43.1/30

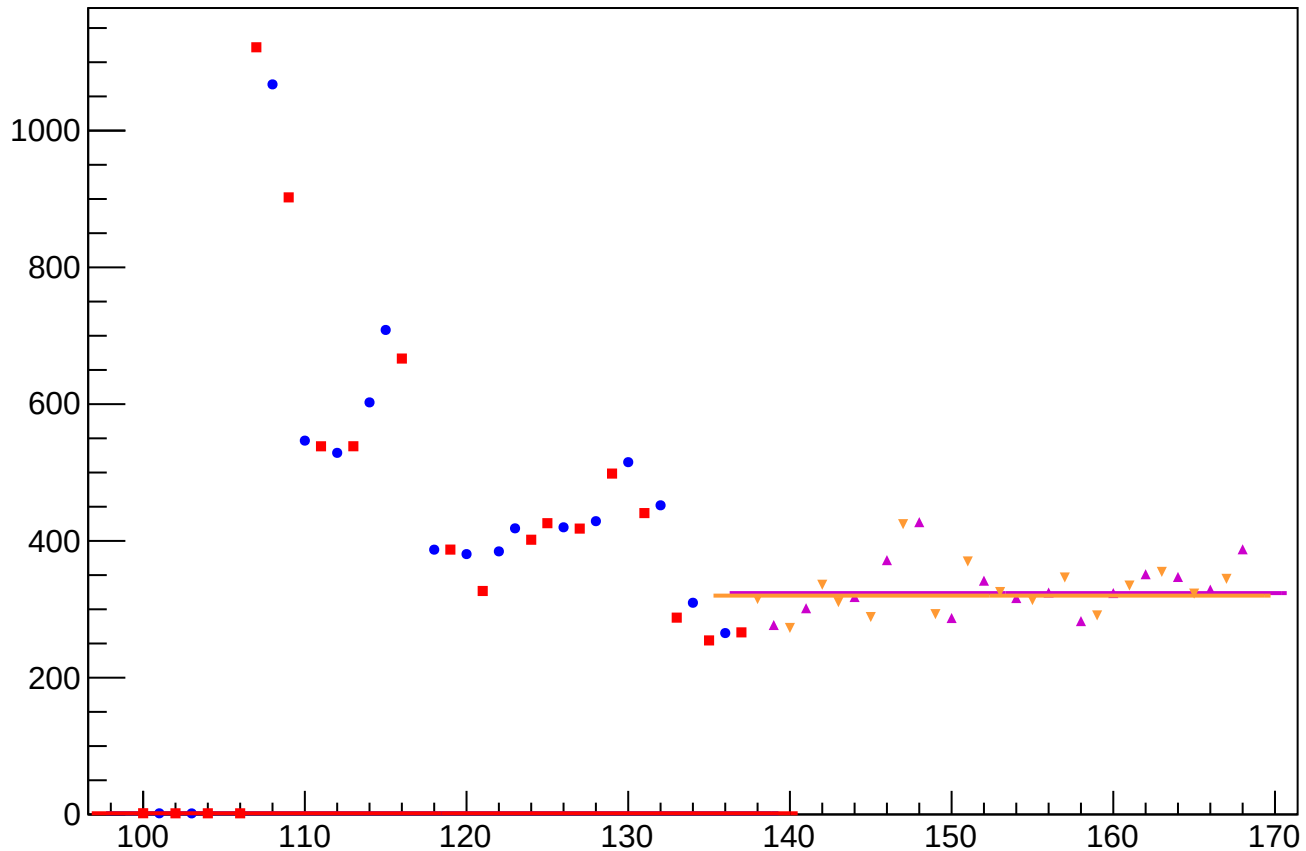
Right: -0.000 ± 0.001 χ^2/NDF : 31.8/35

In: 0.000 ± 0.002 χ^2/NDF : 41.2/31

Out: -0.001 ± 0.002 χ^2/NDF : 33.9/34

All: -0.000 ± 0.001 χ^2/NDF : 75.2/66

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 320.006 $\pm$ 0.066 χ^2 /NDF:255632.6/15

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

Left In: 323.681 $\pm$ 0.068 χ^2 /NDF:295579.5/14

Left: 321.805 $\pm$ 0.047 χ^2 /NDF: 552719.8/30

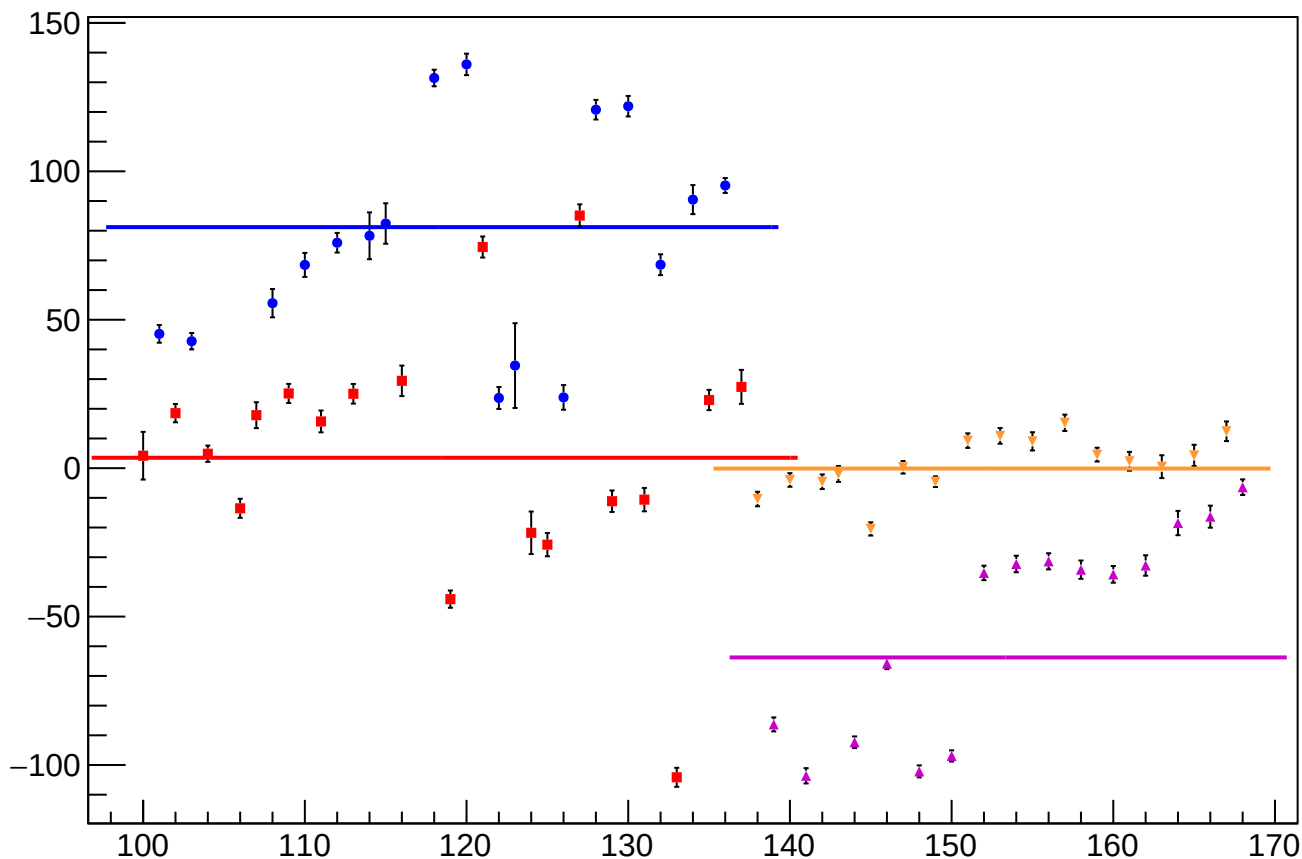
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

In: 1.844 $\pm$ 0.001 χ^2 /NDF:34026763.0/31

Out: 1.865 $\pm$ 0.001 χ^2 /NDF:34097311.2/34

All: 1.855 $\pm$ 0.001 χ^2 /NDF: 68124188.4/66

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201 ± 0.886 $\chi^2/\text{NDF}: 1709.8/16$

Left Out: -0.124 ± 0.638 $\chi^2/\text{NDF}: 205.5/15$

Right Out: 3.508 ± 0.843 $\chi^2/\text{NDF}: 2599.0/18$

Left In: -63.768 ± 0.642 $\chi^2/\text{NDF}: 2657.8/14$

Left: -31.748 ± 0.452 $\chi^2/\text{NDF}: 7809.5/30$

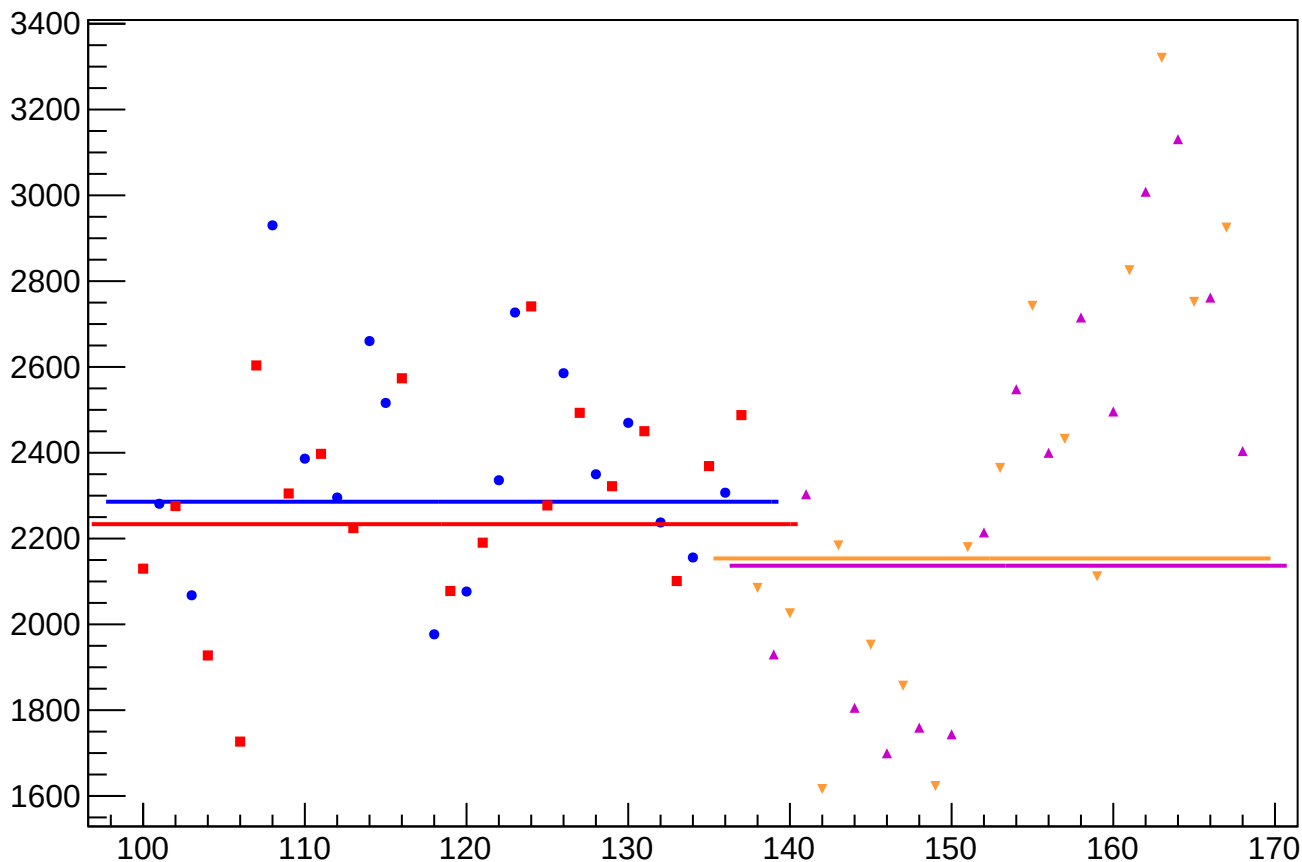
Right: 40.415 ± 0.610 $\chi^2/\text{NDF}: 8348.3/35$

In: -13.846 ± 0.520 $\chi^2/\text{NDF}: 21932.7/31$

Out: 1.200 ± 0.509 $\chi^2/\text{NDF}: 2816.3/34$

All: -6.160 ± 0.364 $\chi^2/\text{NDF}: 25177.1/66$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2153.669+/-0.451 χ^2/NDF : 874497.8/15

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

Left In: 2136.721+/-0.454 χ^2/NDF : 837231.1/14

Left: 2145.248+/-0.320 χ^2/NDF : 1712430.4/30

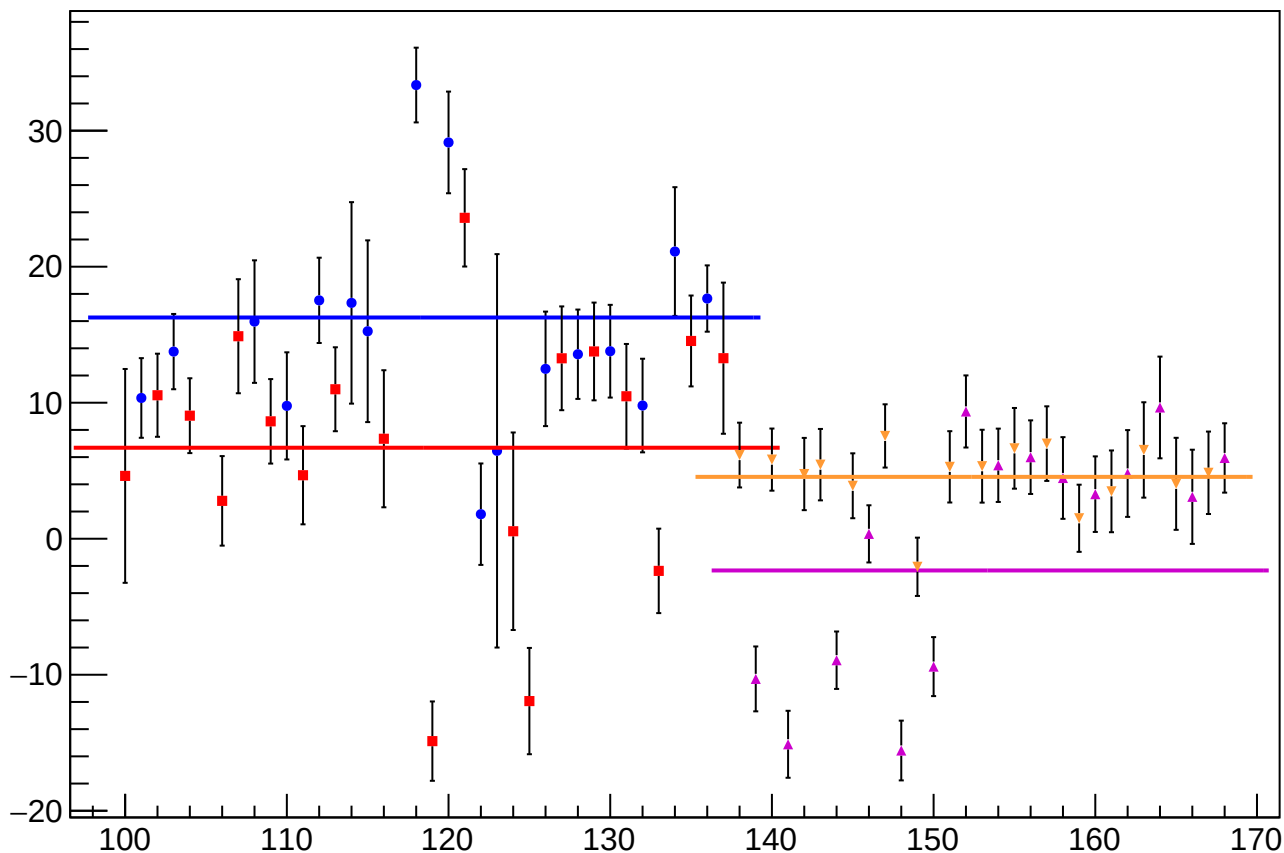
Right: 2258.395+/-0.432 χ^2/NDF : 259847.1/35

In: 2188.078+/-0.368 χ^2/NDF : 983745.0/31

Out: 2182.775+/-0.360 χ^2/NDF : 1032773.1/34

All: 2185.369+/-0.257 χ^2/NDF : 2016624.5/66

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 ± 0.872 $\chi^2/\text{NDF}: 80.8/16$

Left Out: 4.548 ± 0.657 $\chi^2/\text{NDF}: 15.6/15$

Right Out: 6.690 ± 0.831 $\chi^2/\text{NDF}: 134.0/18$

Left In: -2.333 ± 0.663 $\chi^2/\text{NDF}: 171.1/14$

Left: 1.139 ± 0.467 $\chi^2/\text{NDF}: 241.0/30$

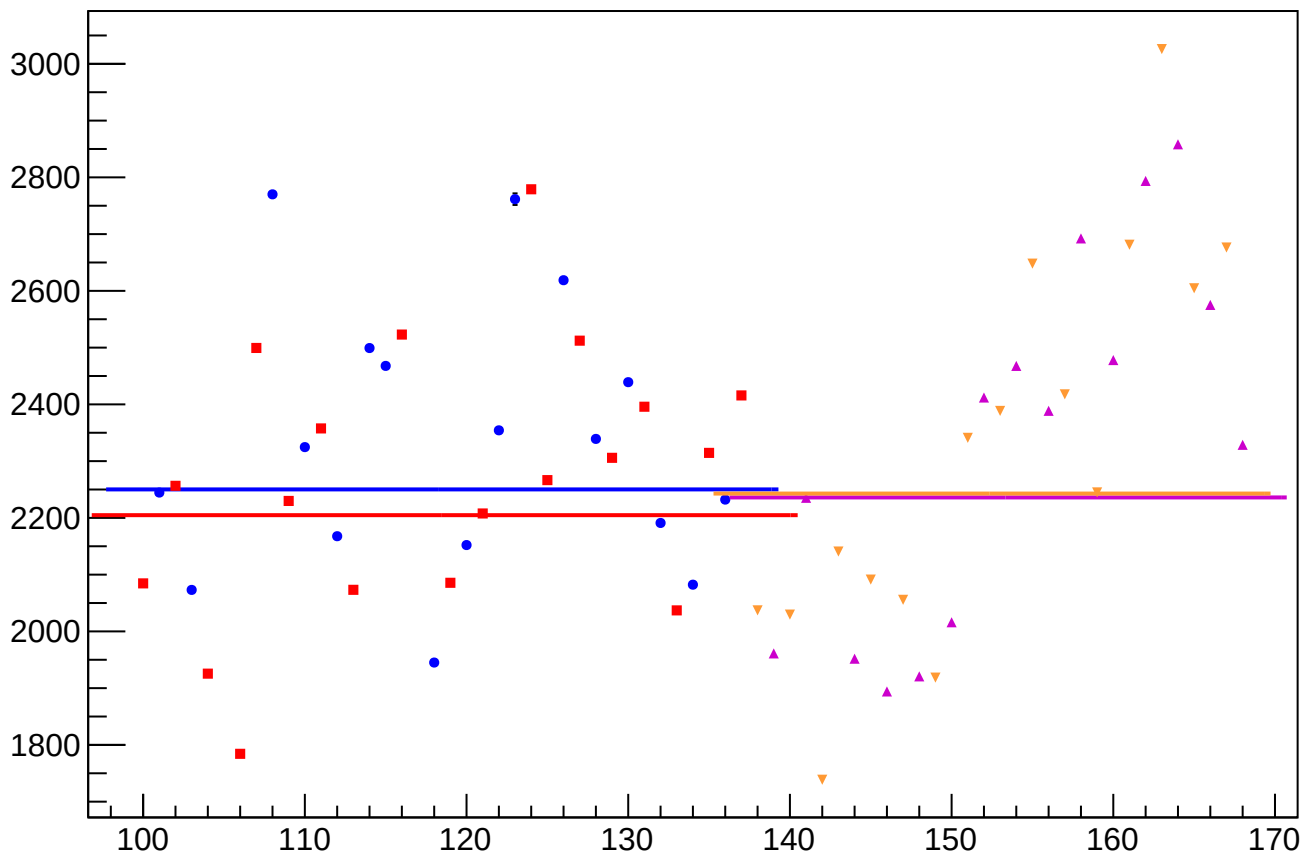
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 4.484 ± 0.528 $\chi^2/\text{NDF}: 540.4/31$

Out: 5.372 ± 0.515 $\chi^2/\text{NDF}: 153.6/34$

All: 4.939 ± 0.369 $\chi^2/\text{NDF}: 695.5/66$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175+/-0.616 χ^2/NDF : 97578.1/16

Left Out: 2242.854+/-0.465 χ^2/NDF : 434590.1/15

Right Out: 2204.789+/-0.587 χ^2/NDF : 126227.4/18

Left In: 2236.018+/-0.469 χ^2/NDF : 407142.3/14

Left: 2239.467+/-0.330 χ^2/NDF : 841839.7/30

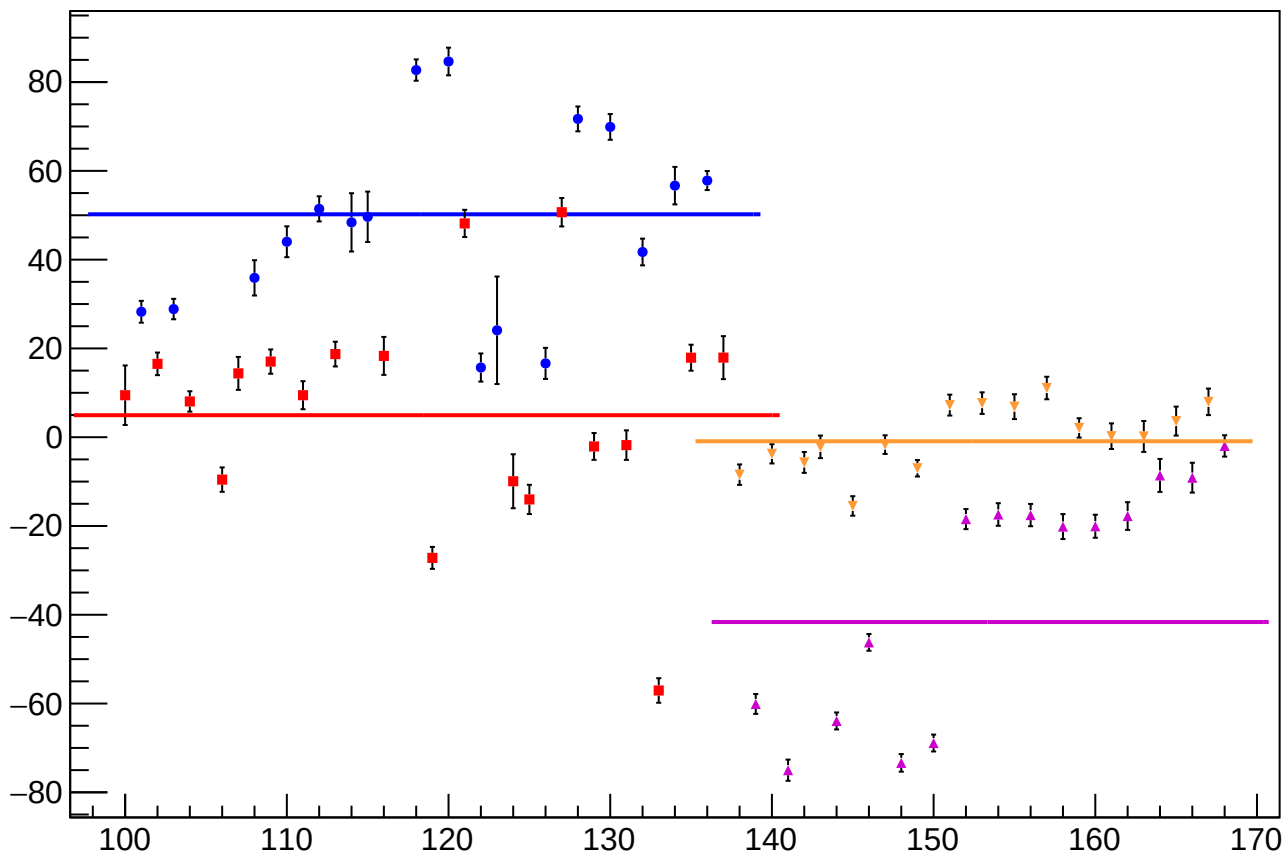
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2241.207+/-0.373 χ^2/NDF : 505054.7/31

Out: 2228.208+/-0.364 χ^2/NDF : 563400.9/34

All: 2234.554+/-0.261 χ^2/NDF : 1069076.9/66

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: -0.907 ± 0.607 χ^2/NDF : 139.2/15

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

Left In: -41.639 ± 0.611 χ^2/NDF : 1783.5/14

Left: -21.152 ± 0.431 χ^2/NDF : 4159.0/30

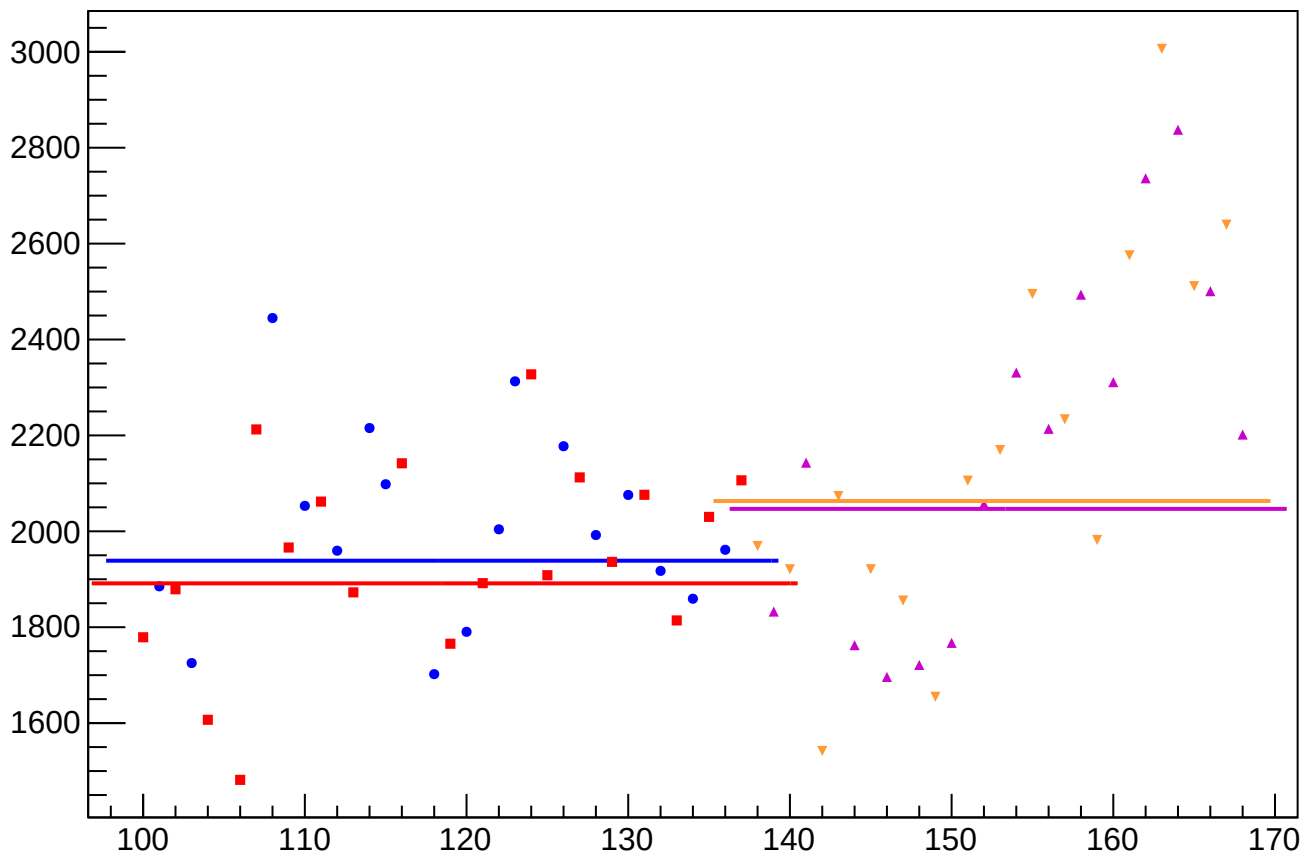
Right: 26.432 ± 0.517 χ^2/NDF : 4002.4/35

In: -5.053 ± 0.474 χ^2/NDF : 11620.1/31

Out: 1.557 ± 0.462 χ^2/NDF : 1441.0/34

All: -1.668 ± 0.331 χ^2/NDF : 13160.8/66

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688 $\pm$ 0.531 χ^2 /NDF: 100143.1/16

Left Out: 2063.155 $\pm$ 0.429 χ^2 /NDF: 620428.6/15

Right Out: 1891.466 $\pm$ 0.504 χ^2 /NDF: 146622.8/18

Left In: 2046.763 $\pm$ 0.432 χ^2 /NDF: 569837.4/14

Left: 2055.007 $\pm$ 0.305 χ^2 /NDF: 1190990.4/30

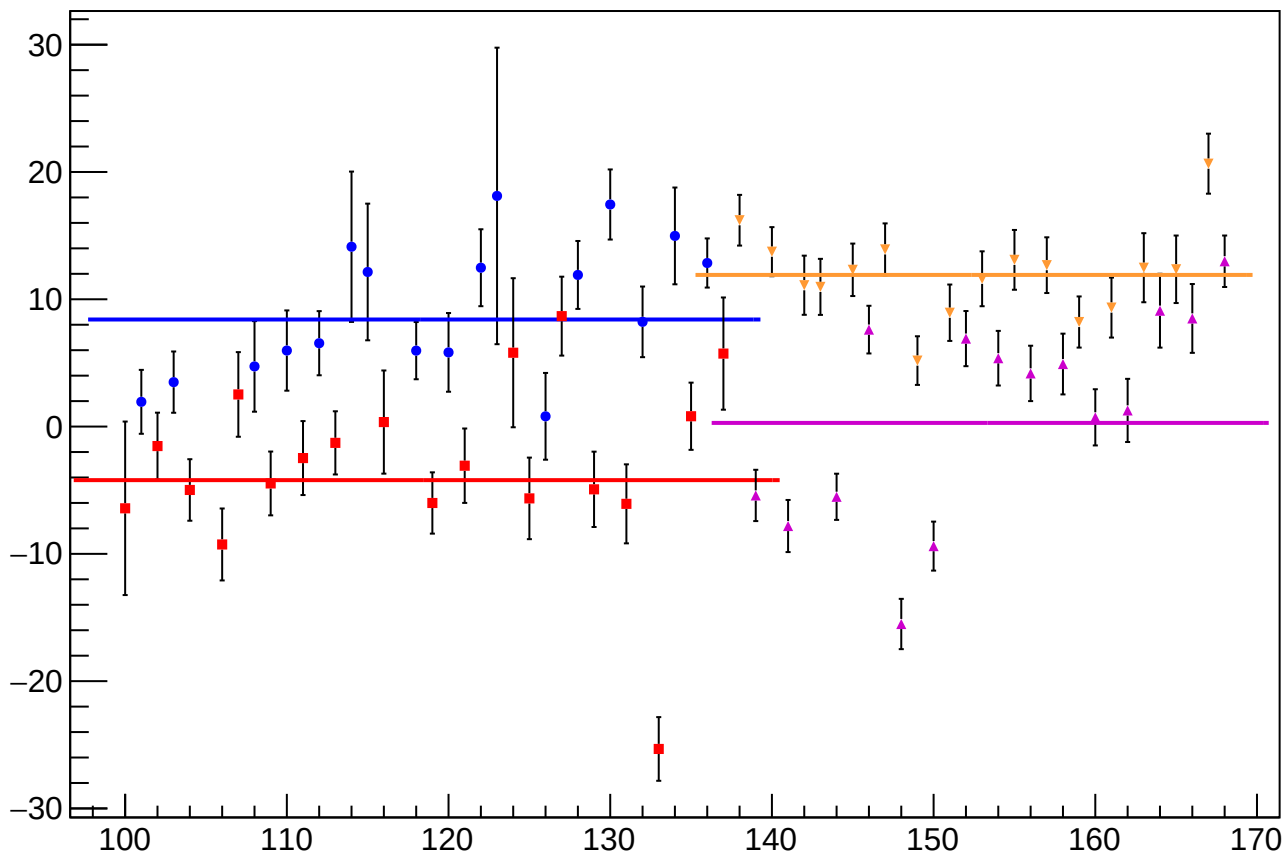
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 2003.716 $\pm$ 0.335 χ^2 /NDF: 694916.5/31

Out: 1991.024 $\pm$ 0.327 χ^2 /NDF: 834220.5/34

All: 1997.215 $\pm$ 0.234 χ^2 /NDF: 1529872.1/66

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 ± 0.711 χ^2/NDF : 44.6/16

Left Out: 11.914 ± 0.546 χ^2/NDF : 39.9/15

Right Out: -4.208 ± 0.682 χ^2/NDF : 113.1/18

Left In: 0.288 ± 0.552 χ^2/NDF : 218.5/14

Left: 6.163 ± 0.388 χ^2/NDF : 482.7/30

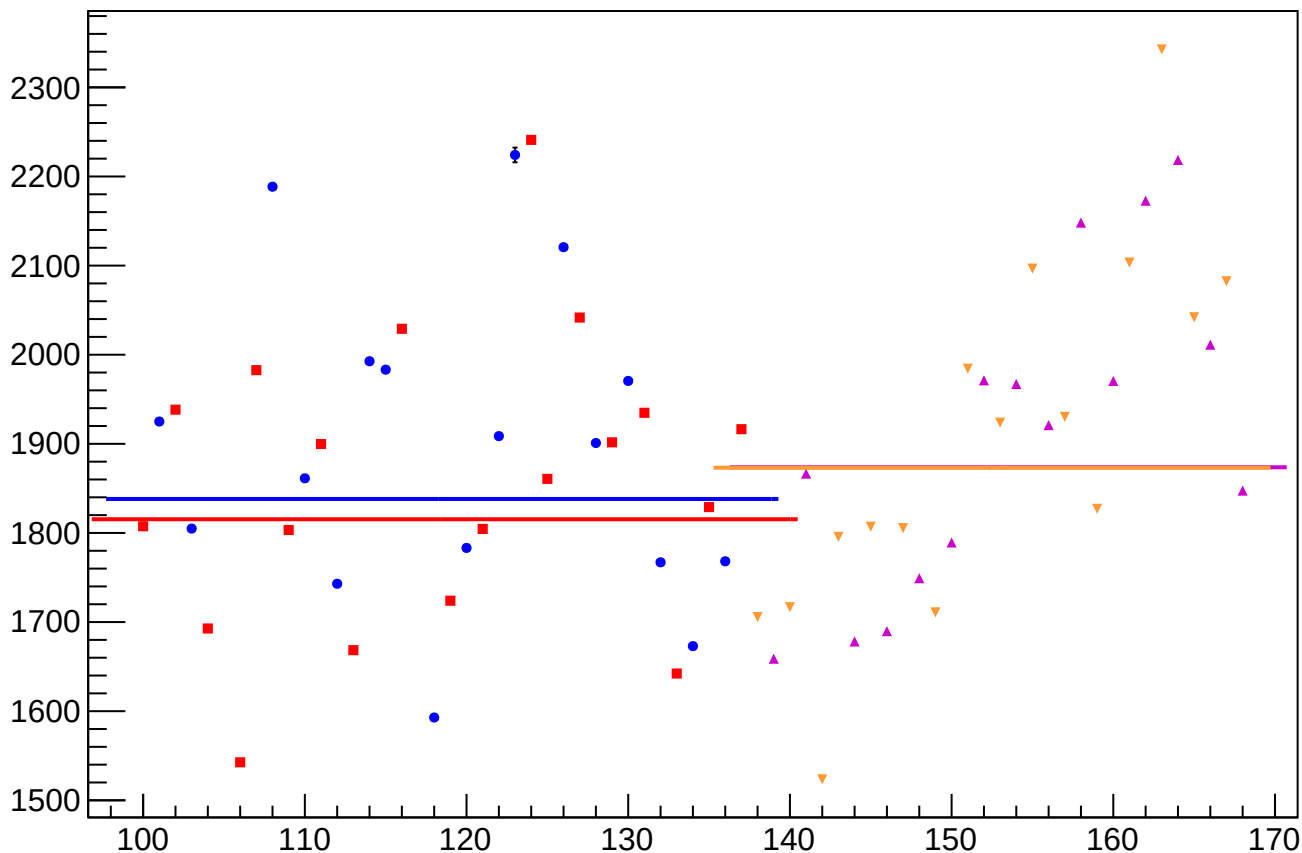
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 3.339 ± 0.436 χ^2/NDF : 344.5/31

Out: 5.623 ± 0.426 χ^2/NDF : 493.3/34

All: 4.507 ± 0.305 χ^2/NDF : 851.8/66

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.143+/-0.503 χ^2 /NDF: 82878.7/16

Left Out: 1873.207+/-0.386 χ^2 /NDF:223254.4/15

Right Out: 1815.403+/-0.483 χ^2 /NDF: 87419.0/18

Left In: 1873.705+/-0.390 χ^2 /NDF:178988.3/14

Left: 1873.454+/-0.274 χ^2 /NDF: 402243.5/30

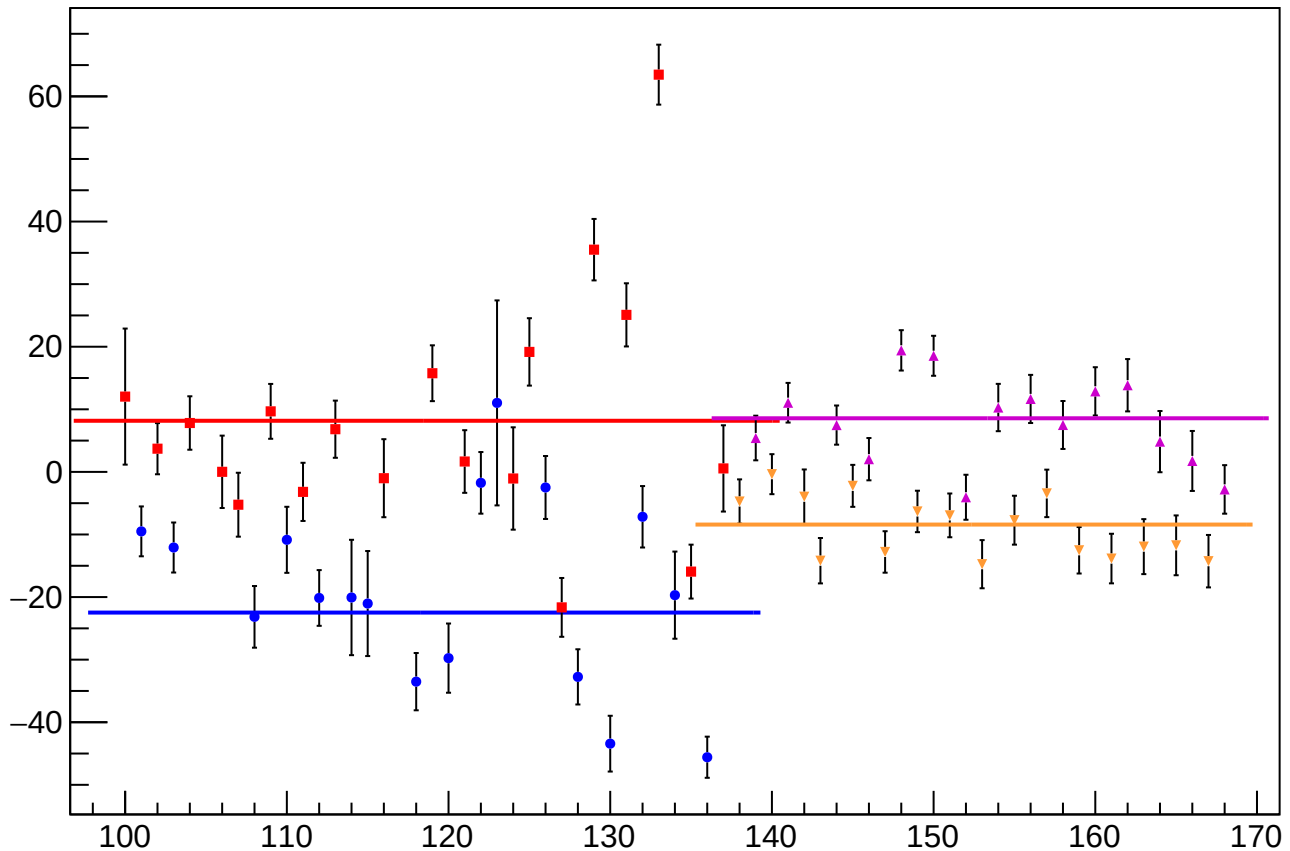
Right: 1826.303+/-0.348 χ^2 /NDF: 171362.3/35

In: 1860.345+/-0.308 χ^2 /NDF:264988.7/31

Out: 1850.653+/-0.301 χ^2 /NDF:319424.9/34

All: 1855.390+/-0.216 χ^2 /NDF: 584919.0/66

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -8.416 ± 0.932 χ^2/NDF : 27.4/15

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

Left In: 8.567 ± 0.944 χ^2/NDF : 53.6/14

Left: -0.034 ± 0.663 χ^2/NDF : 244.9/30

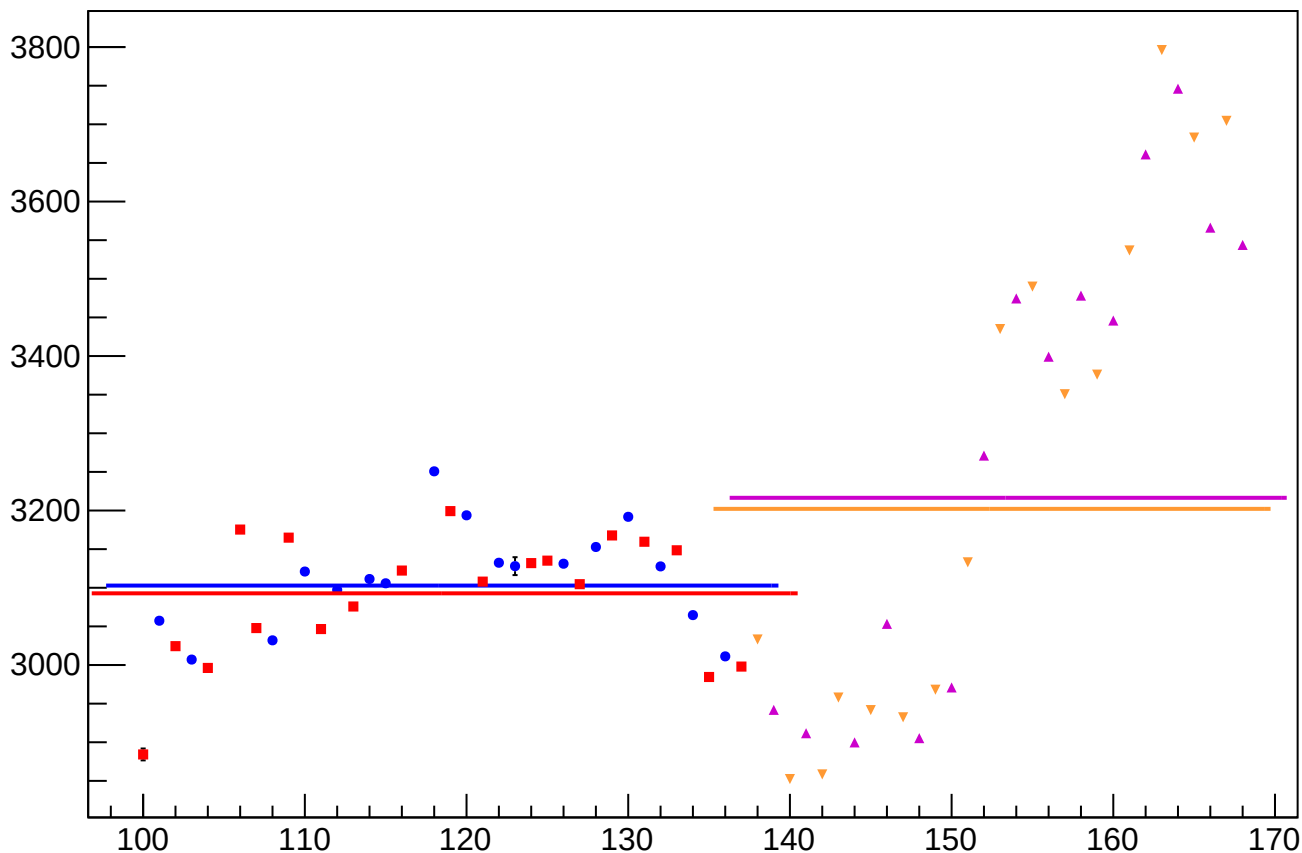
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.369 ± 0.741 χ^2/NDF : 624.0/31

Out: -1.885 ± 0.726 χ^2/NDF : 429.0/34

All: -2.612 ± 0.518 χ^2/NDF : 1055.0/66

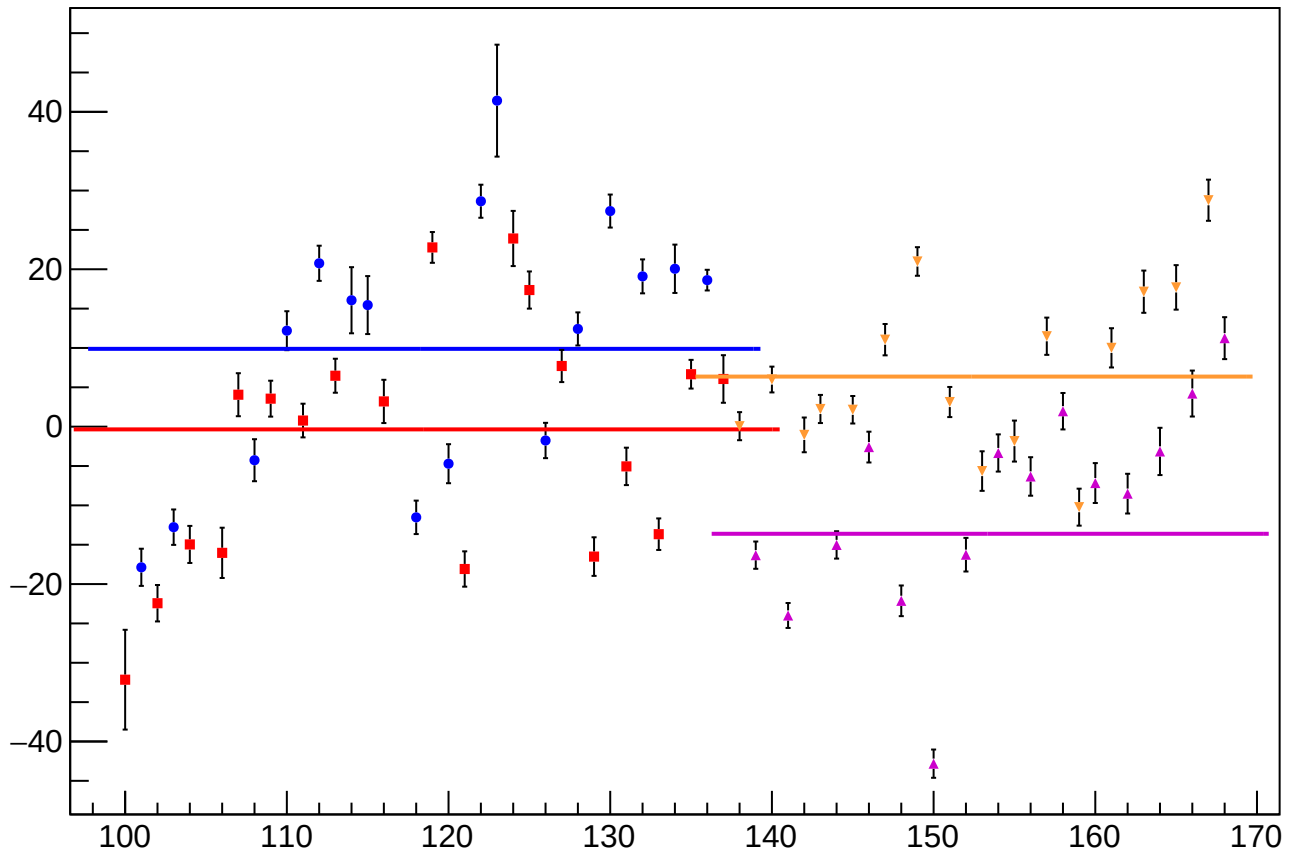
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16
 Left Out: 3202.167 $\pm$ 0.659 χ^2 /NDF:211599.7/15
 Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18
 Left In: 3216.466 $\pm$ 0.668 χ^2 /NDF:187645.8/14

Left: 3209.224 $\pm$ 0.469 χ^2 /NDF: 399477.9/30
 Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35
 In: 3172.781 $\pm$ 0.524 χ^2 /NDF:206124.5/31
 Out: 3159.099 $\pm$ 0.513 χ^2 /NDF:230206.7/34
 All: 3165.799 $\pm$ 0.367 χ^2 /NDF: 436679.2/66

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 $\pm$ 0.559 χ^2/NDF : 703.6/16

Left Out: 6.363 $\pm$ 0.527 χ^2/NDF :303.2/15

Right Out: -0.346 $\pm$ 0.547 χ^2/NDF : 628.9/18

Left In: -13.610 $\pm$ 0.548 χ^2/NDF :583.1/14

Left: -3.239 $\pm$ 0.380 χ^2/NDF : 1576.4/30

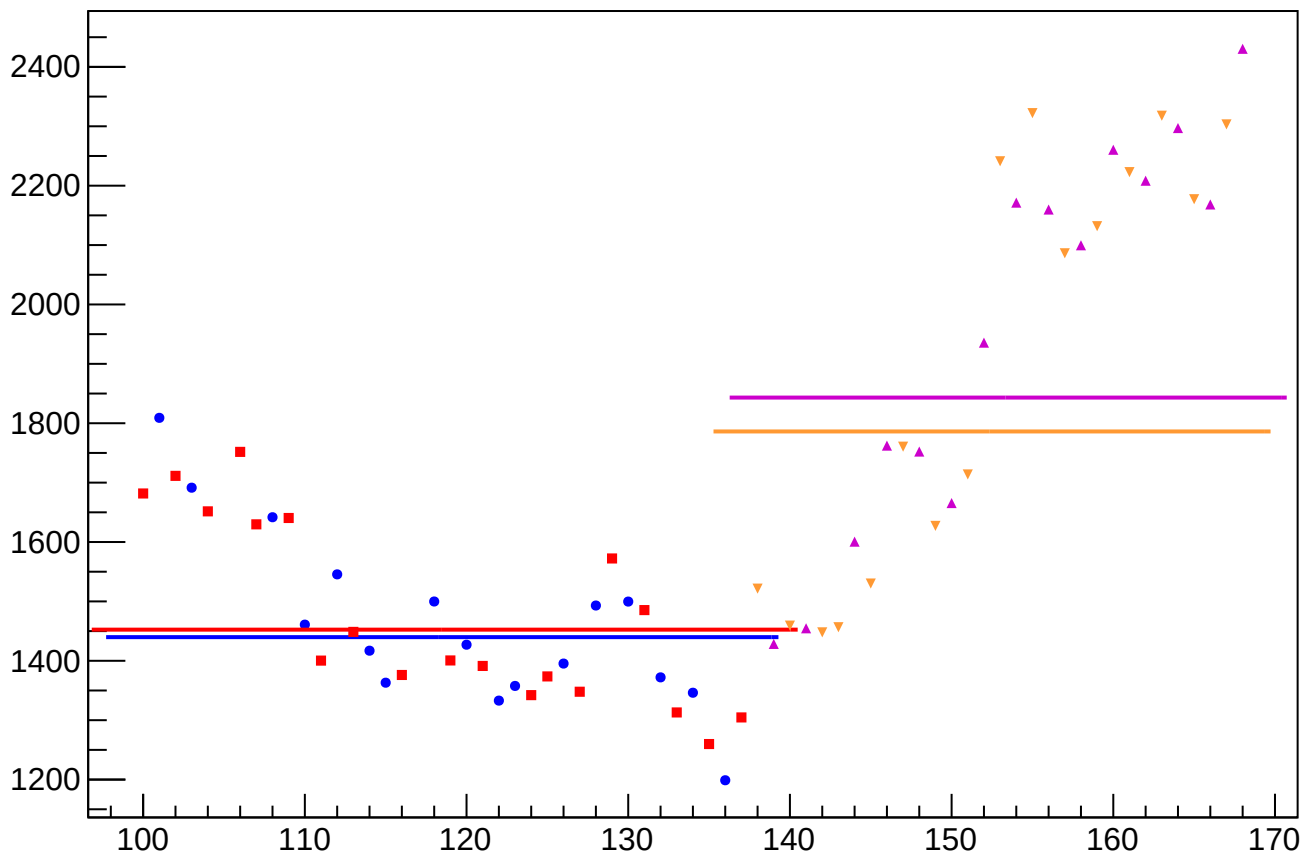
Right: 4.654 $\pm$ 0.391 χ^2/NDF : 1503.6/35

In: -2.107 $\pm$ 0.391 χ^2/NDF :2187.1/31

Out: 3.131 $\pm$ 0.380 χ^2/NDF :1010.1/34

All: 0.593 $\pm$ 0.272 χ^2/NDF : 3289.5/66

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826 ± 0.396 $\chi^2/\text{NDF}: 172823.5/16$

Left Out: 1786.169 ± 0.373 $\chi^2/\text{NDF}: 782137.2/15$

Right Out: 1452.452 ± 0.387 $\chi^2/\text{NDF}: 138519.7/18$

Left In: 1843.202 ± 0.387 $\chi^2/\text{NDF}: 665255.8/14$

Left: 1813.588 ± 0.269 $\chi^2/\text{NDF}: 1458645.4/30$

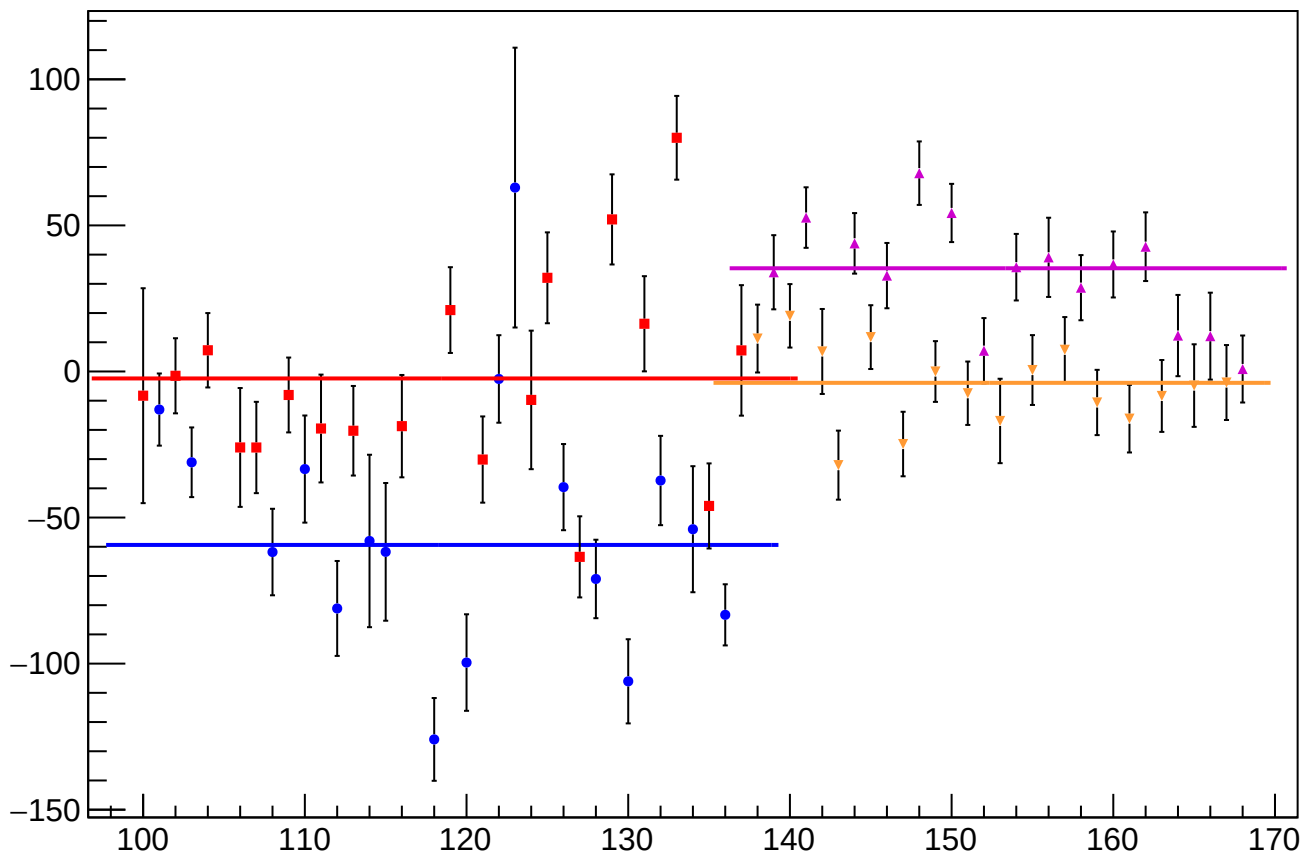
Right: 1446.283 ± 0.277 $\chi^2/\text{NDF}: 311864.1/35$

In: 1645.728 ± 0.277 $\chi^2/\text{NDF}: 1368755.0/31$

Out: 1625.420 ± 0.268 $\chi^2/\text{NDF}: 1306657.8/34$

All: 1635.260 ± 0.193 $\chi^2/\text{NDF}: 2678187.2/66$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 χ^2/NDF : 92.9/16

Left Out: -3.889 ± 2.948 χ^2/NDF : 21.9/15

Right Out: -2.388 ± 3.630 χ^2/NDF : 93.9/18

Left In: 35.326 ± 2.976 χ^2/NDF : 37.6/14

Left: 15.539 ± 2.094 χ^2/NDF : 147.1/30

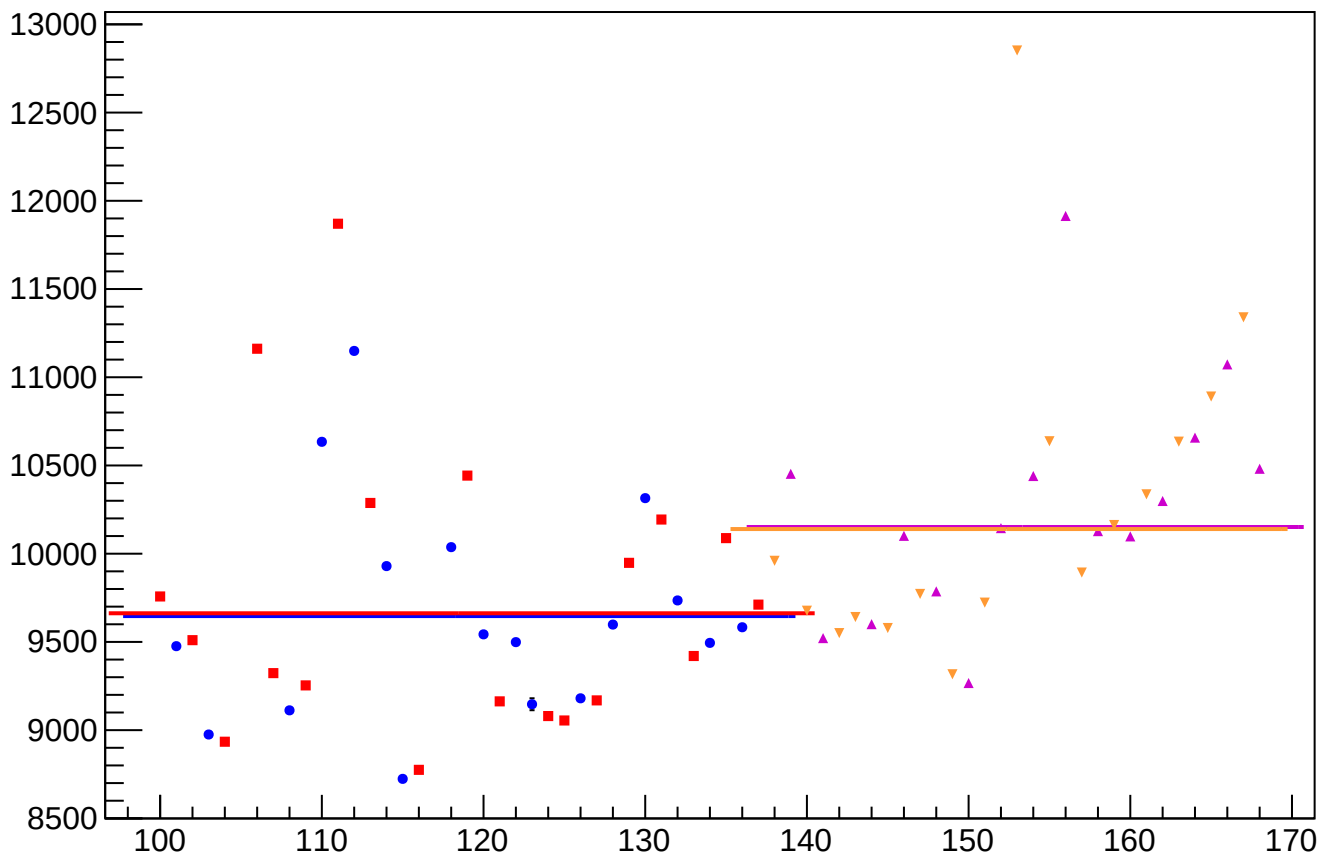
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: -1.516 ± 2.326 χ^2/NDF : 524.5/31

Out: -3.292 ± 2.289 χ^2/NDF : 115.9/34

All: -2.419 ± 1.631 χ^2/NDF : 640.8/66

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480+/-2.637 χ^2/NDF : 44060.3/16

Left Out: 10139.719+/-2.085 χ^2/NDF : 135830.4/15

Right Out: 9662.363+/-2.567 χ^2/NDF : 77584.0/18

Left In: 10151.324+/-2.104 χ^2/NDF : 79641.3/14

Left: 10145.468+/-1.481 χ^2/NDF : 215487.1/30

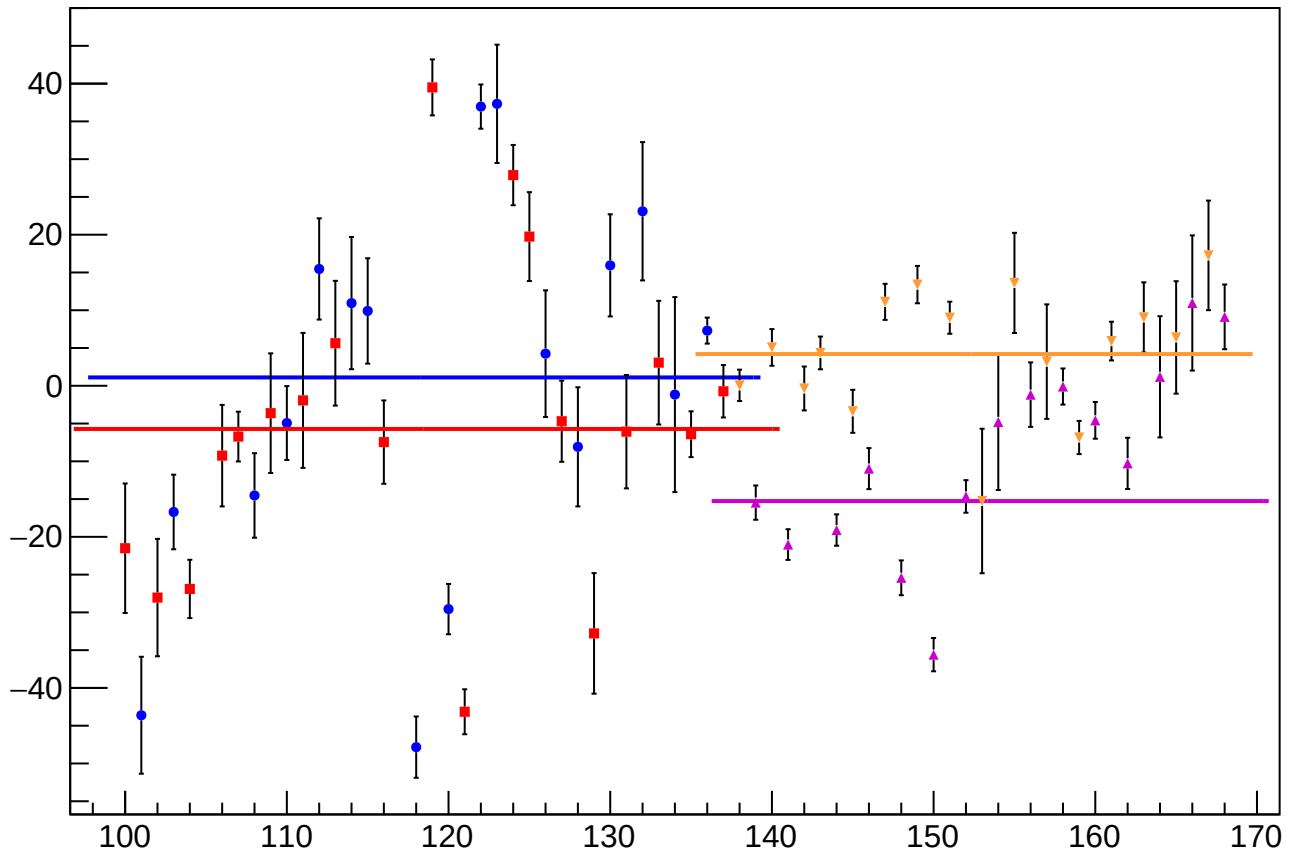
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 9954.917+/-1.645 χ^2/NDF : 146099.6/31

Out: 9949.949+/-1.618 χ^2/NDF : 234254.7/34

All: 9952.393+/-1.153 χ^2/NDF : 380359.0/66

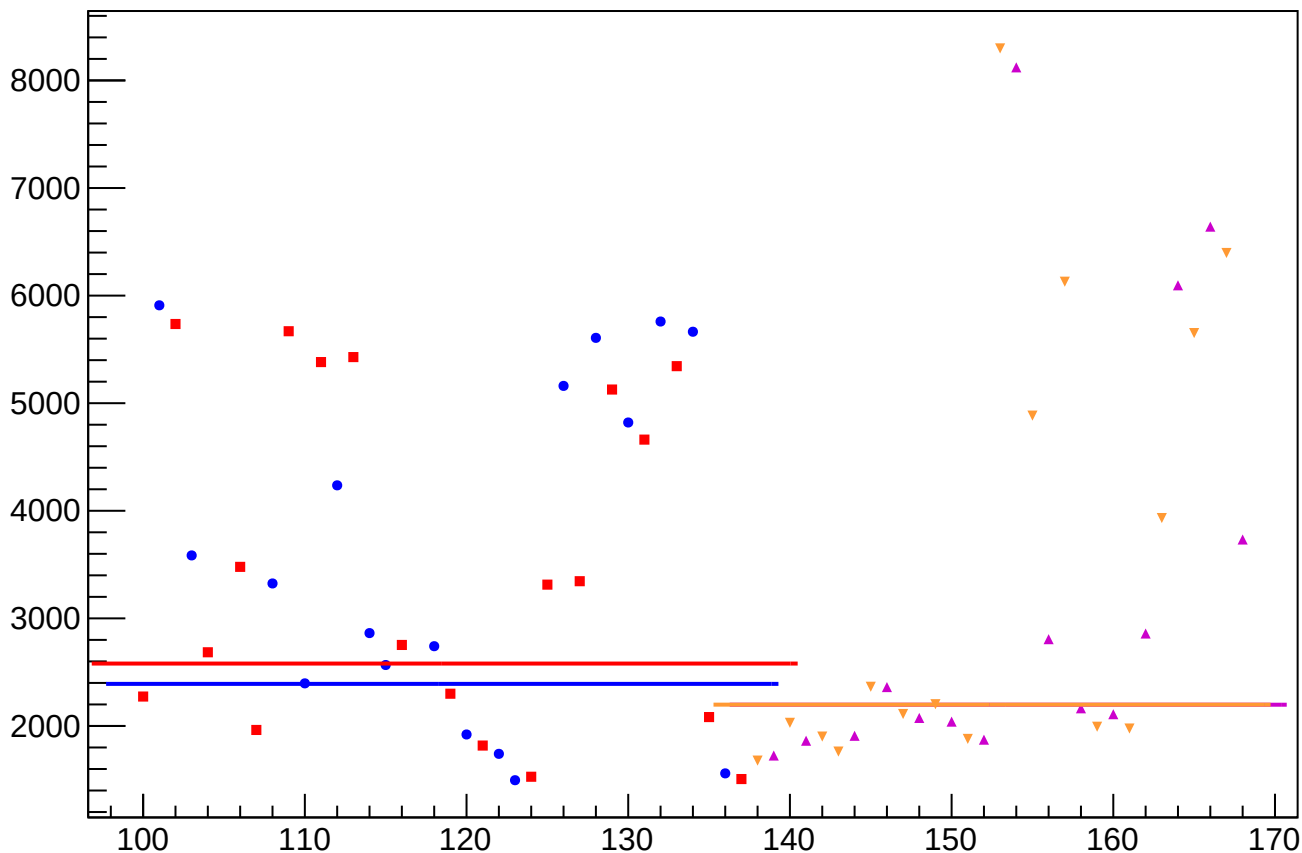
diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$
 Left Out: 4.197 ± 0.723 $\chi^2/\text{NDF}: 77.3/15$
 Right Out: -5.716 ± 1.091 $\chi^2/\text{NDF}: 456.0/18$
 Left In: -15.261 ± 0.708 $\chi^2/\text{NDF}: 237.8/14$

Left: -5.738 ± 0.506 $\chi^2/\text{NDF}: 684.8/30$
 Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$
 In: -10.254 ± 0.590 $\chi^2/\text{NDF}: 891.0/31$
 Out: 1.172 ± 0.603 $\chi^2/\text{NDF}: 590.7/34$
 All: -4.665 ± 0.422 $\chi^2/\text{NDF}: 1665.2/66$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162 $\pm$ 0.754 χ^2 /NDF: 2600547.2/16

Left Out: 2198.163 $\pm$ 0.511 χ^2 /NDF: 3382846.0/15

Right Out: 2580.040 $\pm$ 0.772 χ^2 /NDF: 2365271.4/18

Left In: 2197.501 $\pm$ 0.501 χ^2 /NDF: 2454673.0/14

Left: 2197.825 $\pm$ 0.358 χ^2 /NDF: 5837519.8/30

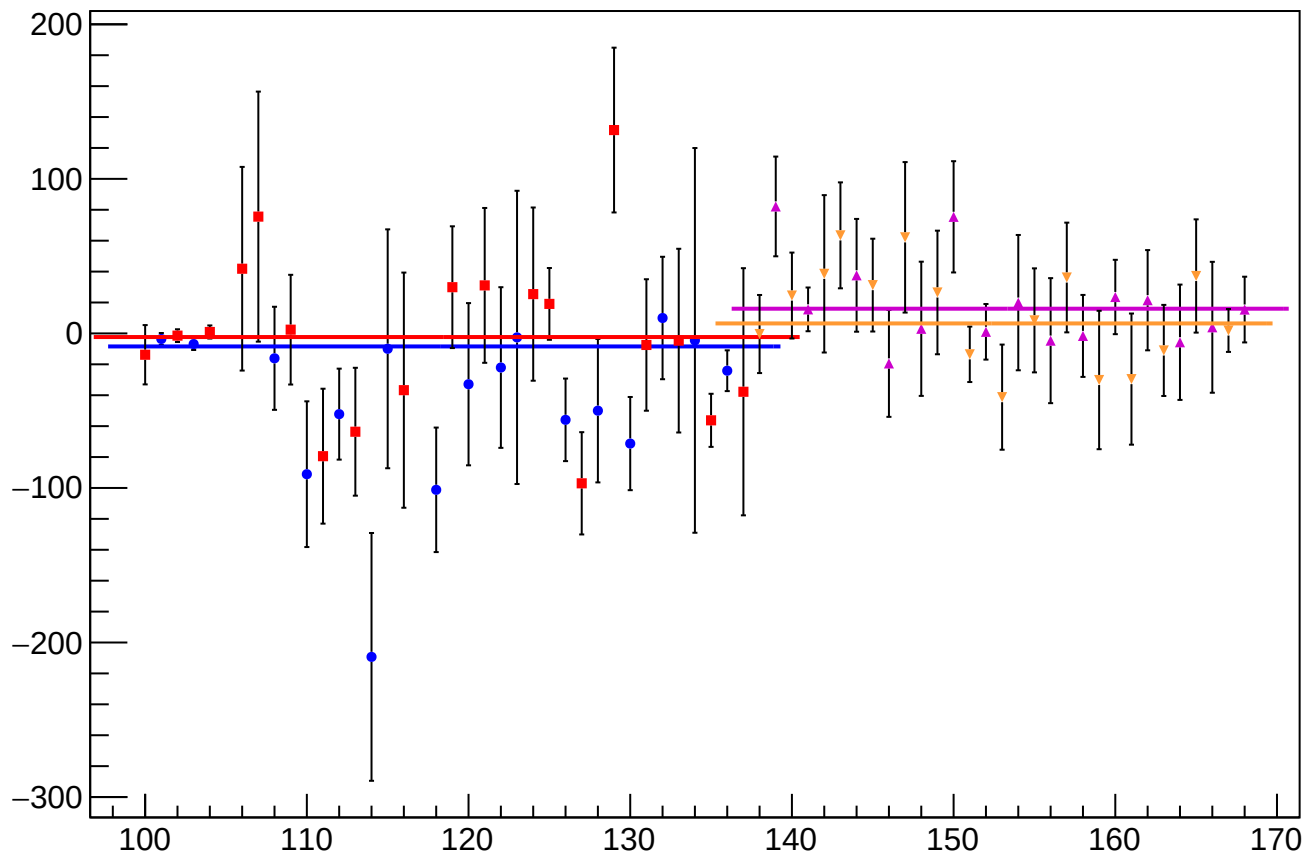
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2256.746 $\pm$ 0.417 χ^2 /NDF: 5100995.6/31

Out: 2314.709 $\pm$ 0.426 χ^2 /NDF: 5918333.5/34

All: 2285.100 $\pm$ 0.298 χ^2 /NDF: 11028776.1/66

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 $\pm$ 2.587 χ^2/NDF : 28.9/16

Left Out: 6.457 $\pm$ 7.064 χ^2/NDF :12.4/15

Right Out: -2.348 $\pm$ 2.787 χ^2/NDF : 34.7/18

Left In: 15.985 $\pm$ 6.957 χ^2/NDF :10.4/14

Left: 11.294 $\pm$ 4.957 χ^2/NDF : 23.7/30

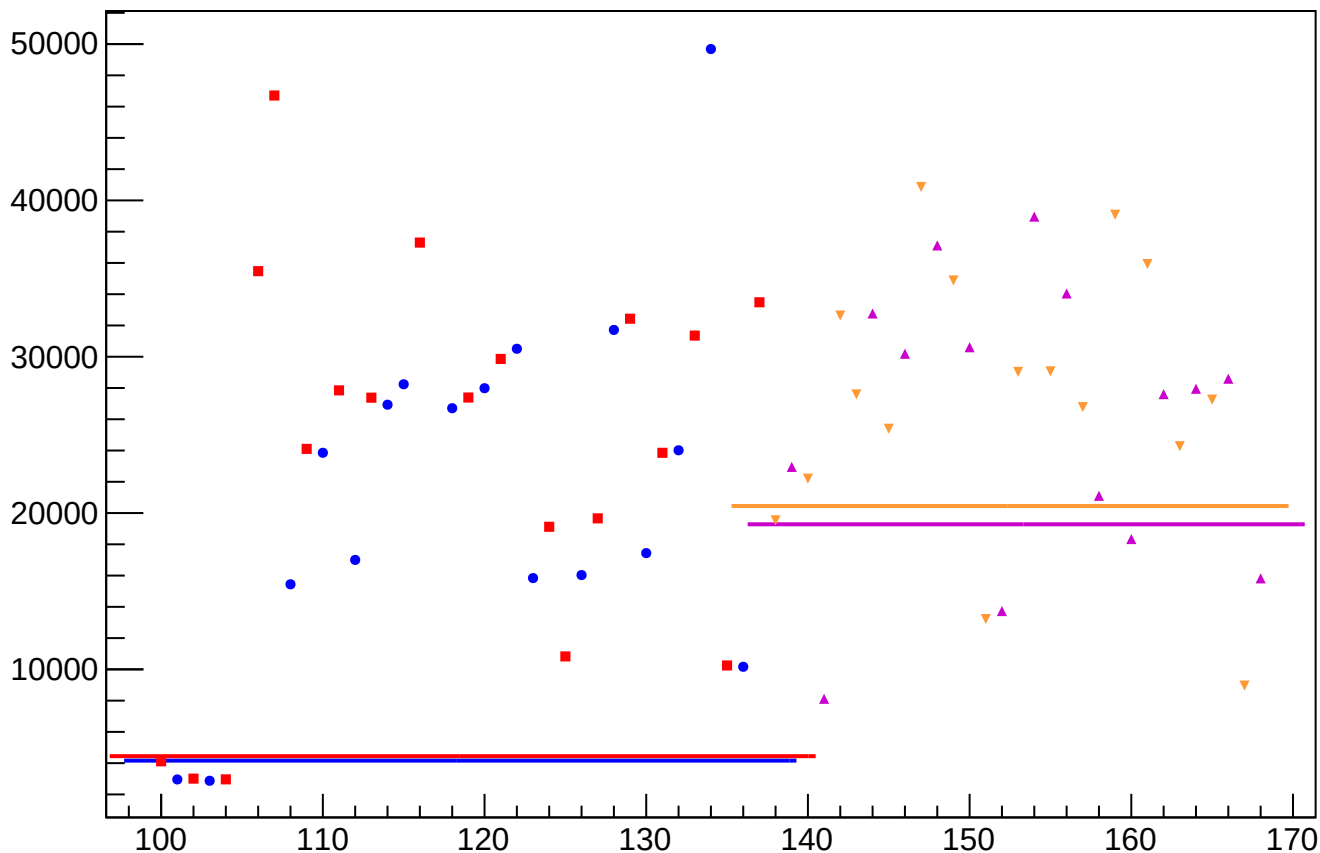
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.463 $\pm$ 2.425 χ^2/NDF :50.1/31

Out: -1.162 $\pm$ 2.592 χ^2/NDF :48.4/34

All: -3.456 $\pm$ 1.771 χ^2/NDF : 99.9/66

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318+/-1.830 χ^2/NDF : 5990070.5/16

Left Out: 20452.133+/-4.995 χ^2/NDF : 3610002.2/15

Right Out: 4447.123+/-1.971 χ^2/NDF : 7426930.4/18

Left In: 19280.752+/-4.919 χ^2/NDF : 3541927.2/14

Left: 19857.533+/-3.505 χ^2/NDF : 7179846.8/30

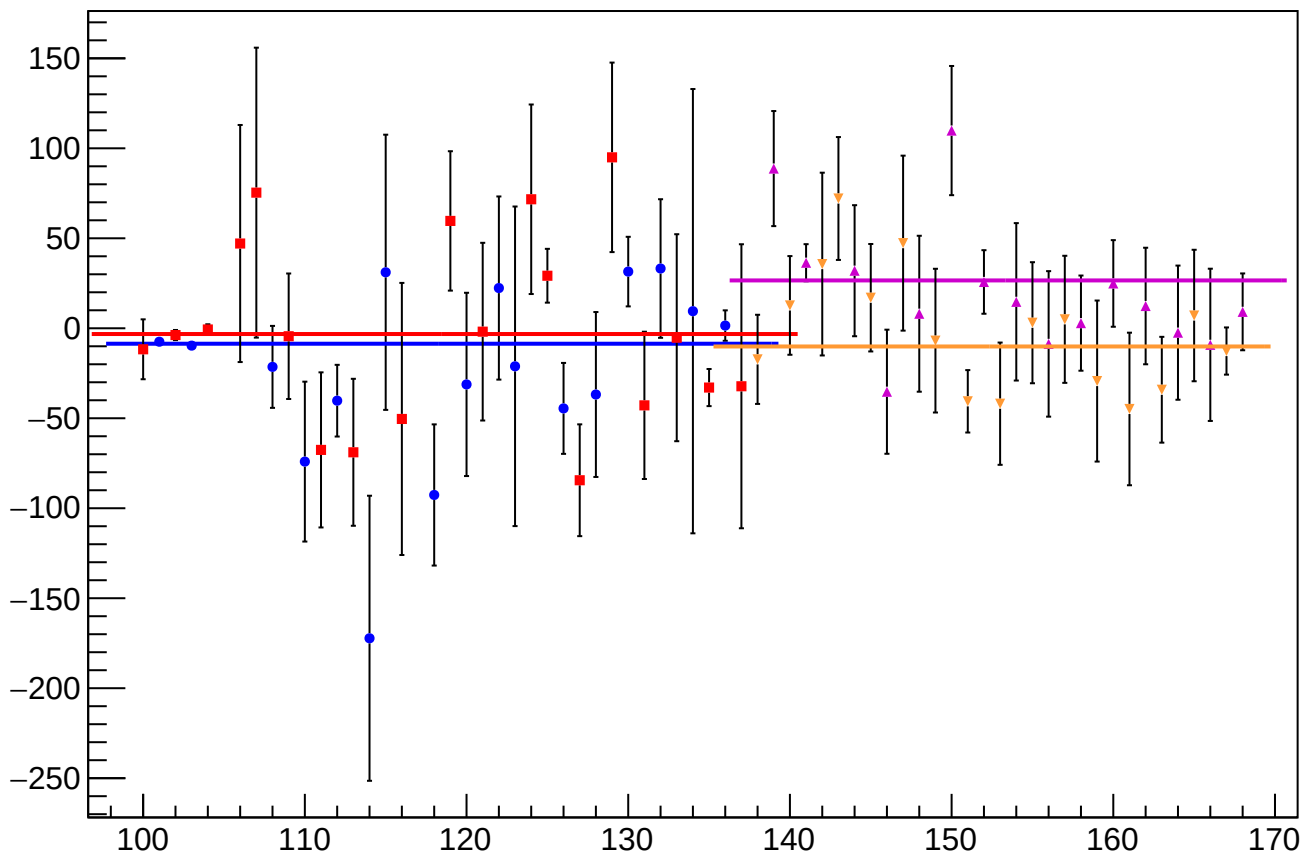
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 5999.347+/-1.715 χ^2/NDF : 17828934.9/31

Out: 6602.752+/-1.833 χ^2/NDF : 19921553.3/34

All: 6280.960+/-1.252 χ^2/NDF : 37808273.8/66

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -10.113 $\pm$ 6.895 χ^2/NDF : 15.7/15

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

Left In: 26.588 $\pm$ 6.298 χ^2/NDF : 17.3/14

Left: 9.894 $\pm$ 4.650 χ^2/NDF : 48.5/30

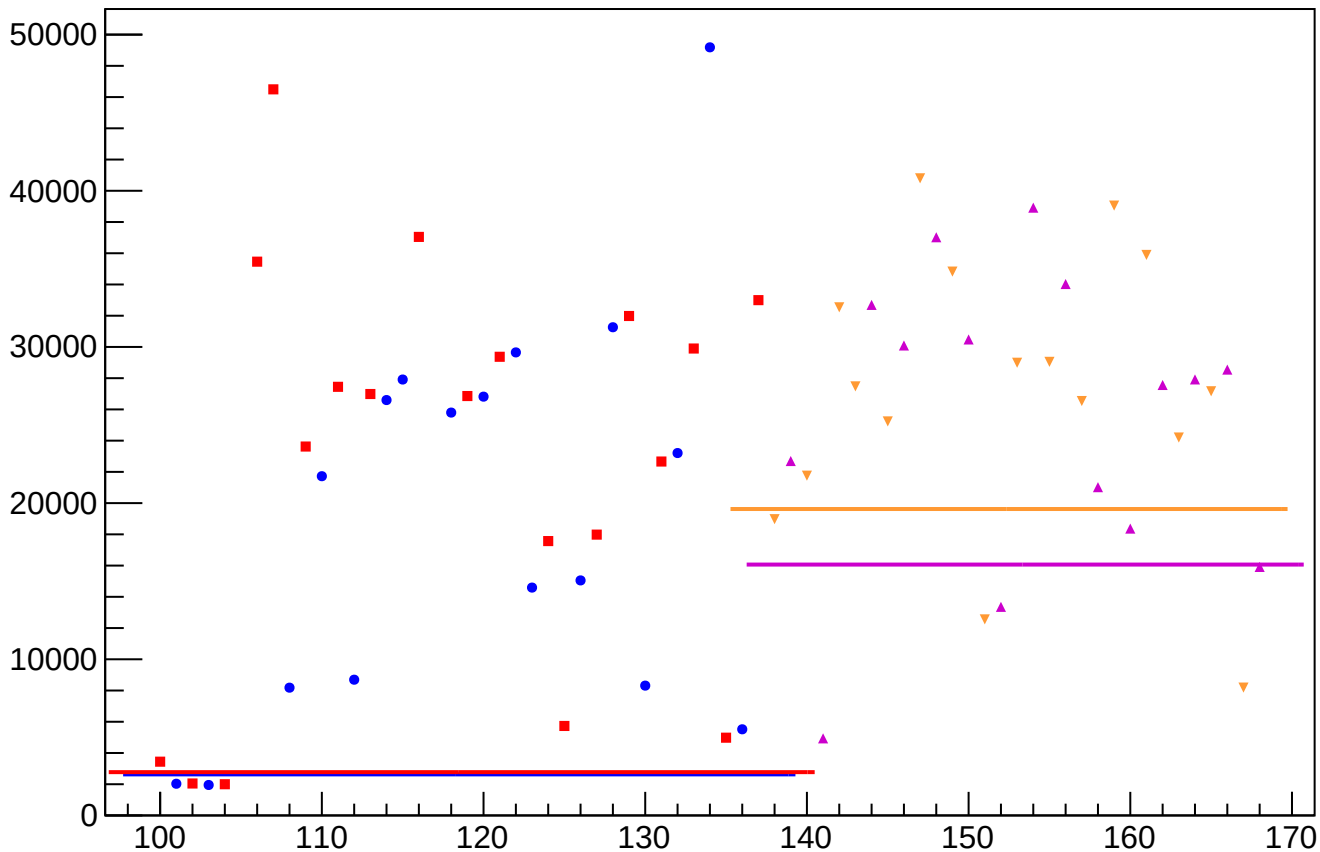
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -5.990 $\pm$ 1.711 χ^2/NDF : 70.6/31

Out: -3.693 $\pm$ 1.852 χ^2/NDF : 53.5/34

All: -4.932 $\pm$ 1.257 χ^2/NDF : 125.0/66

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19622.247 ± 4.875 $\chi^2/\text{NDF}: 4033352.5/15$

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

Left In: 16064.870 ± 4.453 $\chi^2/\text{NDF}: 5659839.4/14$

Left: 17682.976 ± 3.288 $\chi^2/\text{NDF}: 9983455.3/30$

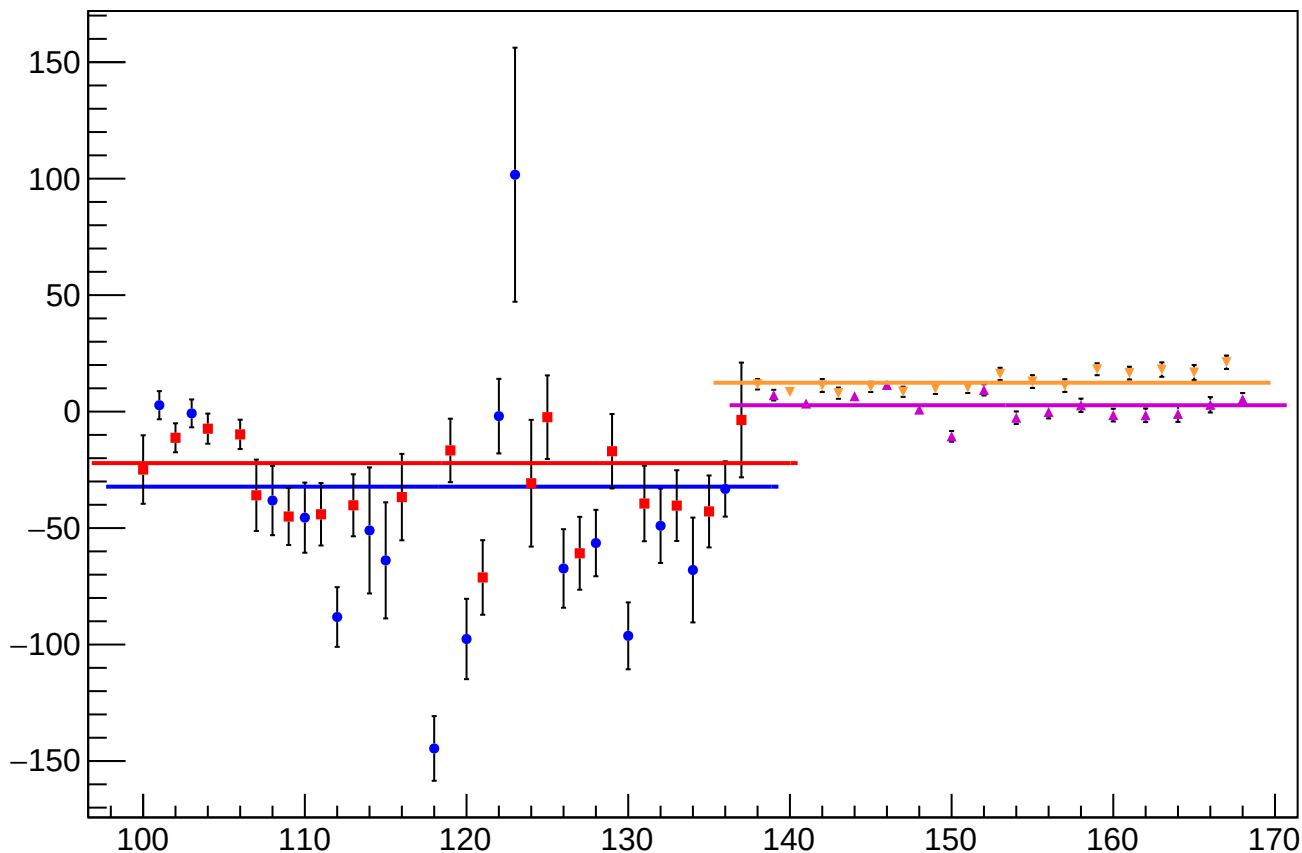
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3622.035 ± 1.210 $\chi^2/\text{NDF}: 19678102.2/31$

Out: 3988.695 ± 1.309 $\chi^2/\text{NDF}: 22952054.8/34$

All: 3790.904 ± 0.889 $\chi^2/\text{NDF}: 42672462.6/66$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 12.395 ± 0.633 χ^2/NDF : 36.8/15

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

Left In: 2.729 ± 0.645 χ^2/NDF : 78.1/14

Left: 7.651 ± 0.452 χ^2/NDF : 229.3/30

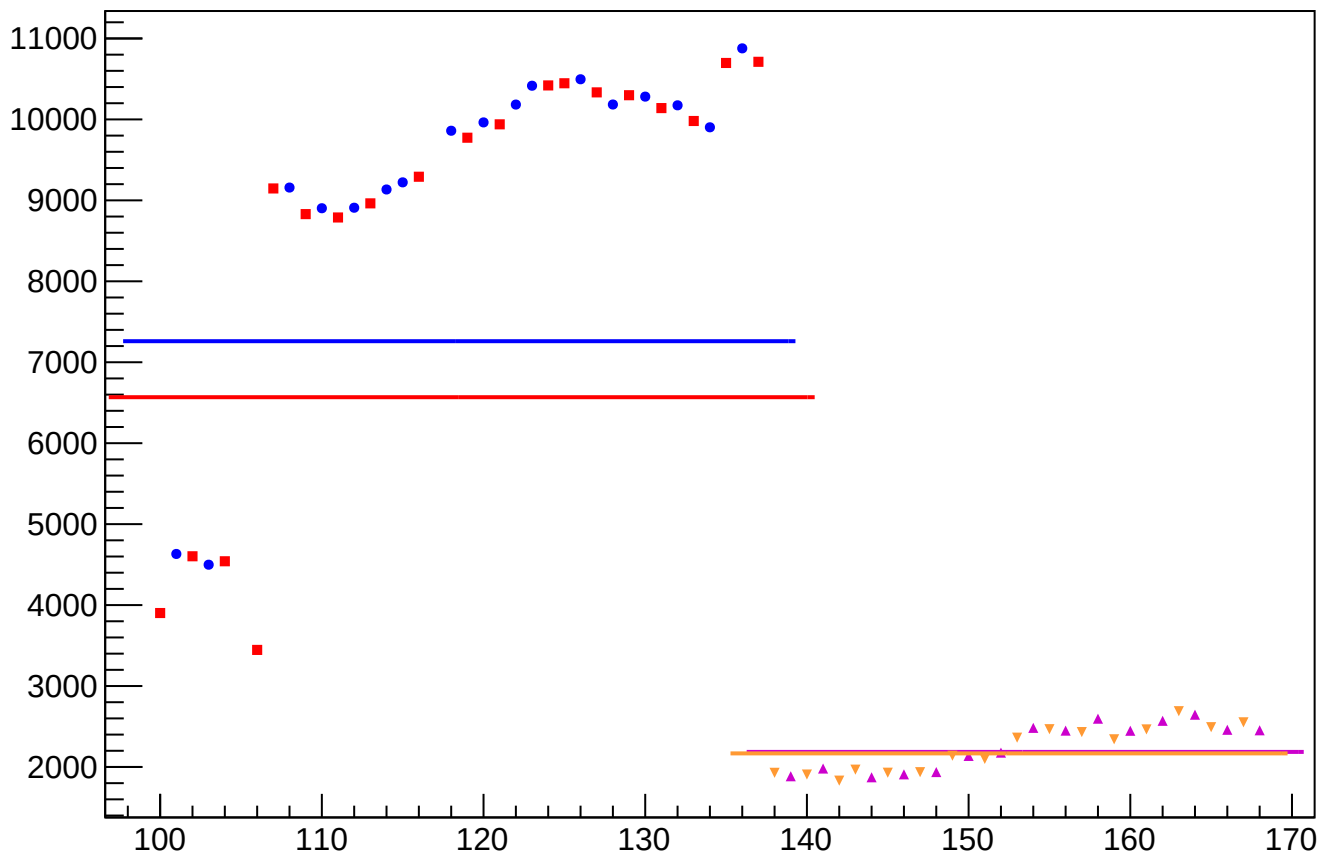
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.168 ± 0.630 χ^2/NDF : 413.1/31

Out: 10.559 ± 0.616 χ^2/NDF : 238.7/34

All: 5.971 ± 0.440 χ^2/NDF : 765.3/66

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2167.680 $\pm$ 0.448 χ^2/NDF :339753.7/15

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

Left In: 2186.083 $\pm$ 0.456 χ^2/NDF :367526.5/14

Left: 2176.712 $\pm$ 0.319 χ^2/NDF : 708110.0/30

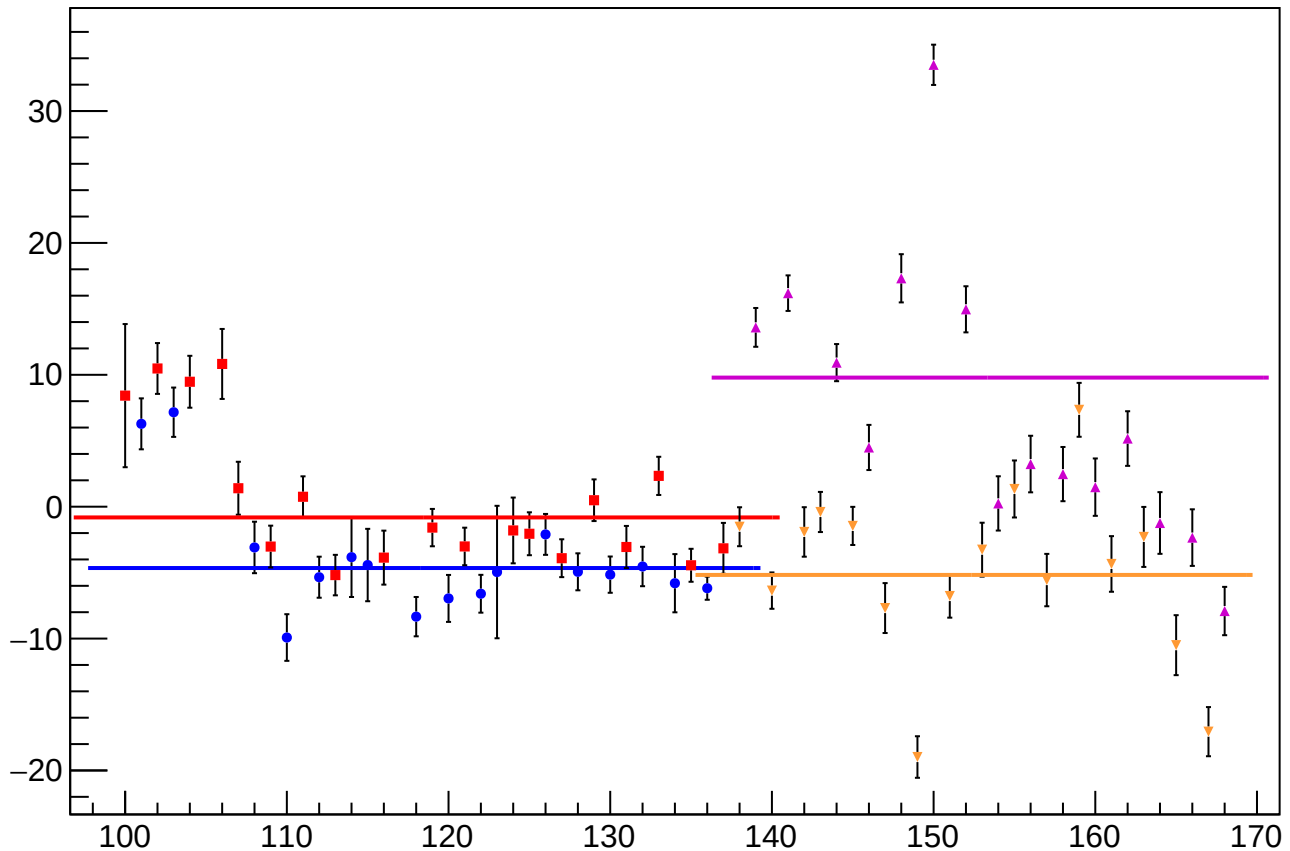
Right: 6876.033 $\pm$ 1.406 χ^2/NDF : 3892707.9/35

In: 2412.735 $\pm$ 0.446 χ^2/NDF :7537964.8/31

Out: 2401.924 $\pm$ 0.435 χ^2/NDF :7682436.7/34

All: 2407.206 $\pm$ 0.311 χ^2/NDF : 15220702.6/6

diff_bpm0l04Y_mean vs Slug, Sign Corrected



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

Left Out: -5.173 ± 0.444 χ^2/NDF : 201.3/15

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

Left In: 9.788 ± 0.459 χ^2/NDF : 517.0/14

Left: 2.053 ± 0.319 χ^2/NDF : 1267.5/30

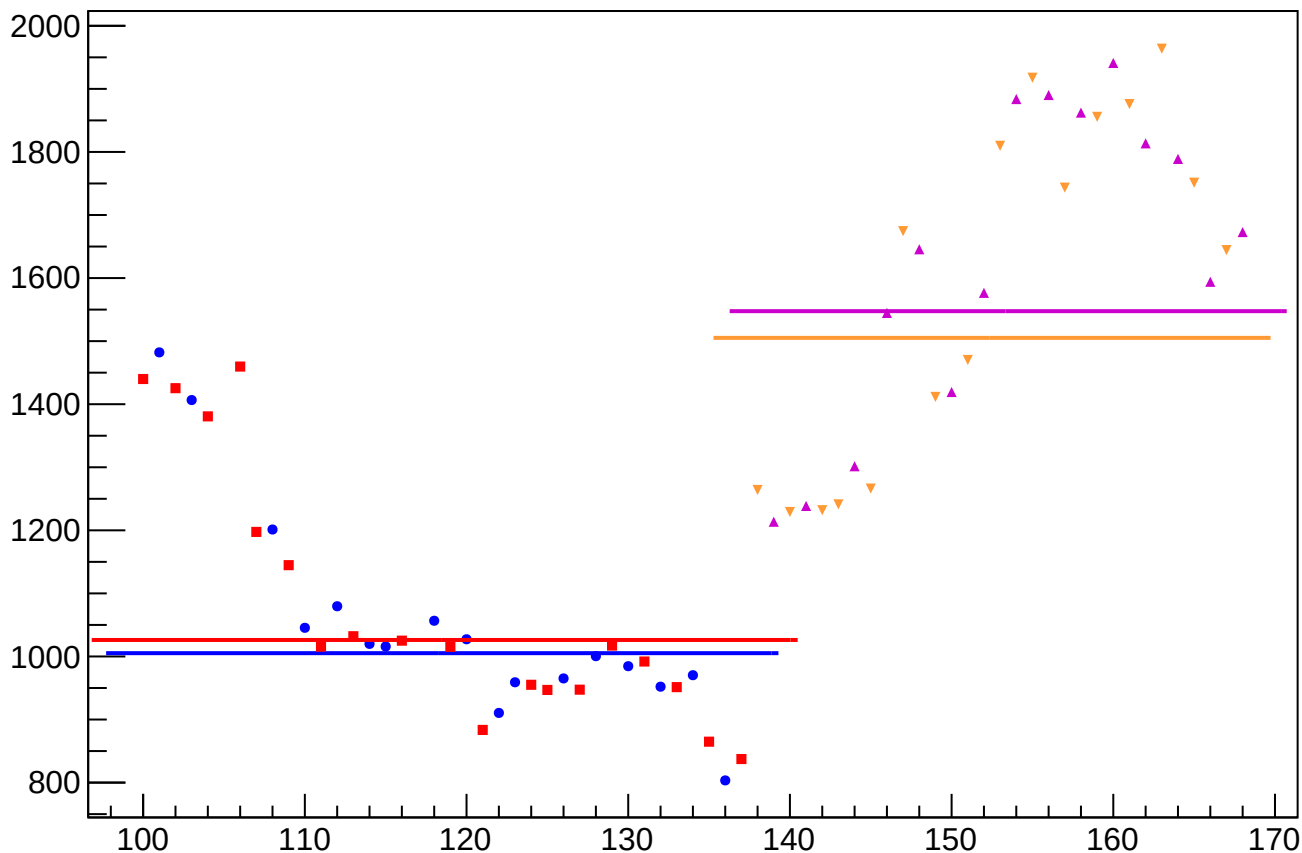
Right: -2.712 ± 0.276 χ^2/NDF : 269.5/35

In: 1.449 ± 0.298 χ^2/NDF : 1185.9/31

Out: -2.706 ± 0.292 χ^2/NDF : 379.6/34

All: -0.671 ± 0.209 χ^2/NDF : 1664.5/66

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1505.190+/-0.314 χ^2/NDF : 697346.5/15

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

Left In: 1547.522+/-0.325 χ^2/NDF : 570916.7/14

Left: 1525.637+/-0.226 χ^2/NDF : 1277055.7/30

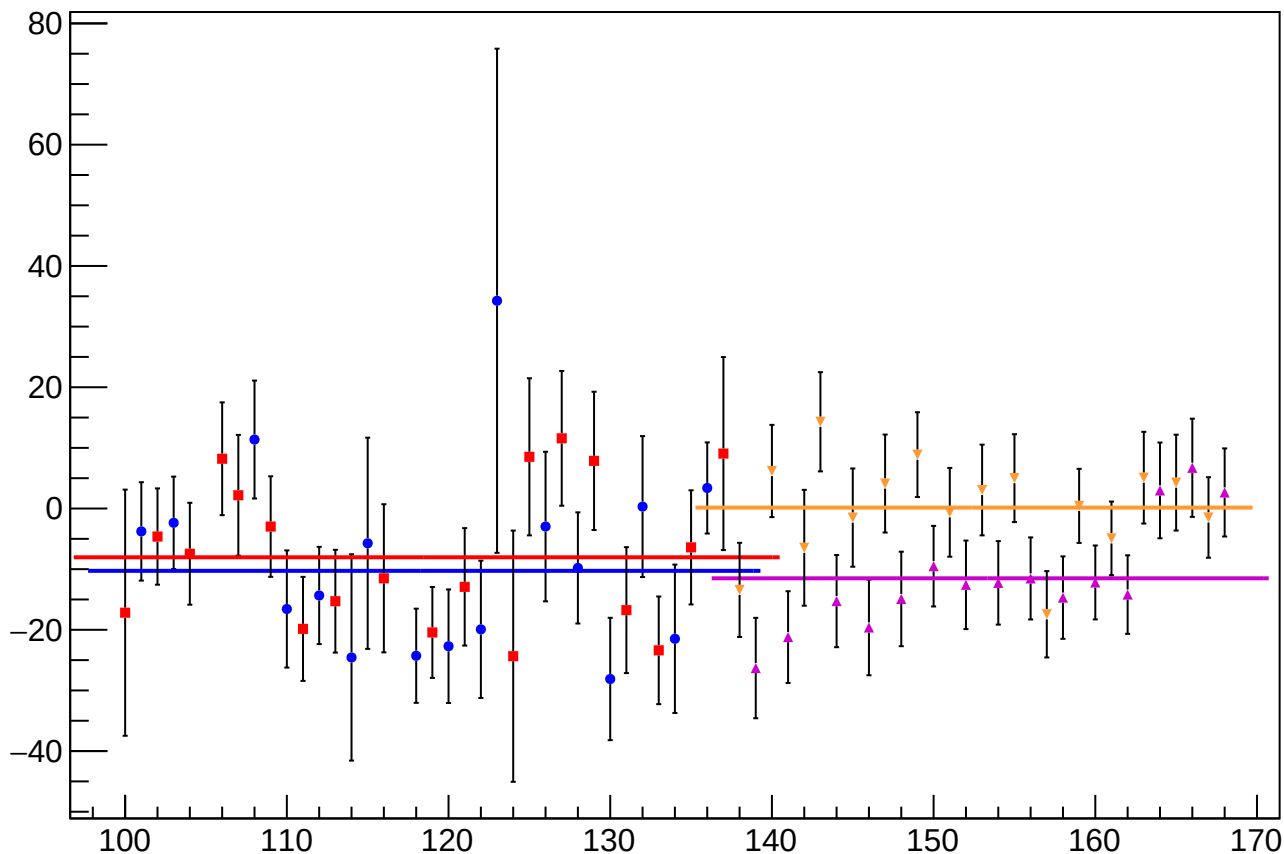
Right: 1015.803+/-0.195 χ^2/NDF : 697945.4/35

In: 1234.338+/-0.211 χ^2/NDF : 2544819.9/31

Out: 1234.026+/-0.207 χ^2/NDF : 2349934.9/34

All: 1234.179+/-0.148 χ^2/NDF : 4894756.0/66

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 ± 2.408 χ^2/NDF : 23.5/16

Left Out: 0.153 ± 1.838 χ^2/NDF : 17.2/15

Right Out: -8.041 ± 2.278 χ^2/NDF : 22.8/18

Left In: -11.510 ± 1.860 χ^2/NDF : 19.1/14

Left: -5.607 ± 1.307 χ^2/NDF : 56.2/30

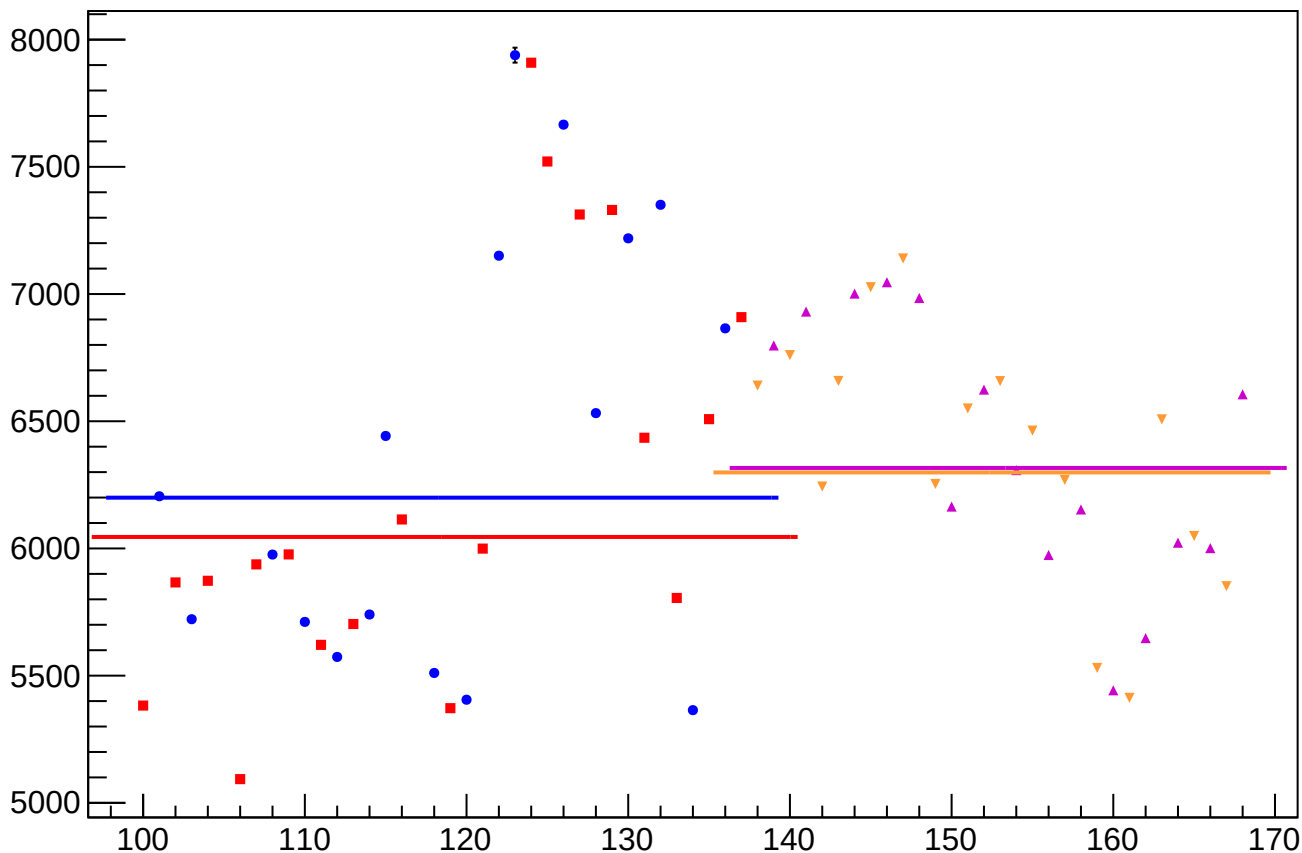
Right: -9.097 ± 1.655 χ^2/NDF : 46.7/35

In: -11.049 ± 1.472 χ^2/NDF : 42.7/31

Out: -3.076 ± 1.430 χ^2/NDF : 47.8/34

All: -6.948 ± 1.026 χ^2/NDF : 105.6/66

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6298.759 $\pm$ 1.299 χ^2 /NDF:147914.1/15

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

Left In: 6316.464 $\pm$ 1.315 χ^2 /NDF:150393.0/14

Left: 6307.503 $\pm$ 0.924 χ^2 /NDF: 298398.8/30

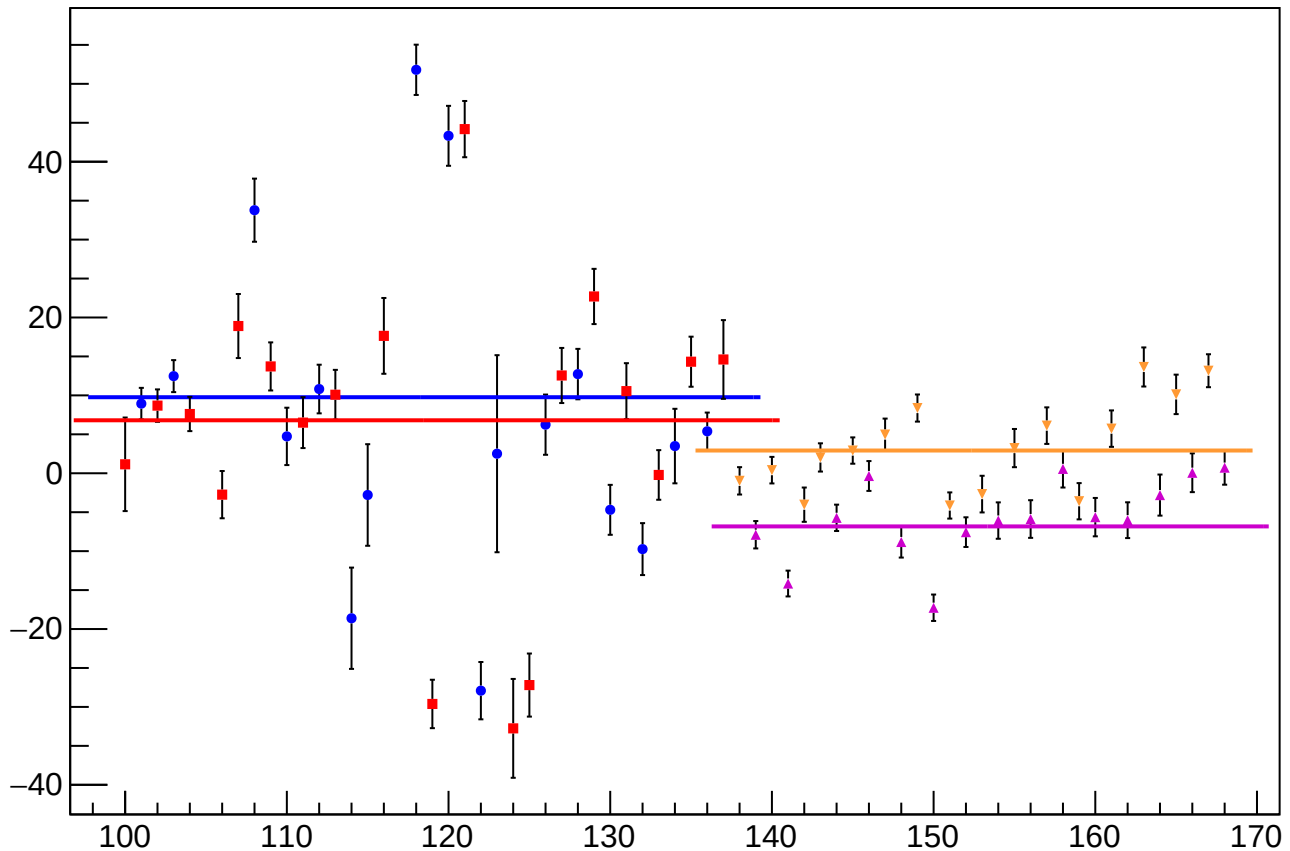
Right: 6118.133 $\pm$ 1.170 χ^2 /NDF: 334424.9/35

In: 6272.788 $\pm$ 1.041 χ^2 /NDF:325102.8/31

Out: 6198.816 $\pm$ 1.011 χ^2 /NDF:321248.0/34

All: 6234.739 $\pm$ 0.725 χ^2 /NDF: 648948.5/66

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 ± 0.797 χ^2/NDF : 473.8/16

Left Out: 2.921 ± 0.507 χ^2/NDF : 112.3/15

Right Out: 6.801 ± 0.765 χ^2/NDF : 421.8/18

Left In: -6.824 ± 0.529 χ^2/NDF : 102.9/14

Left: -1.753 ± 0.366 χ^2/NDF : 392.1/30

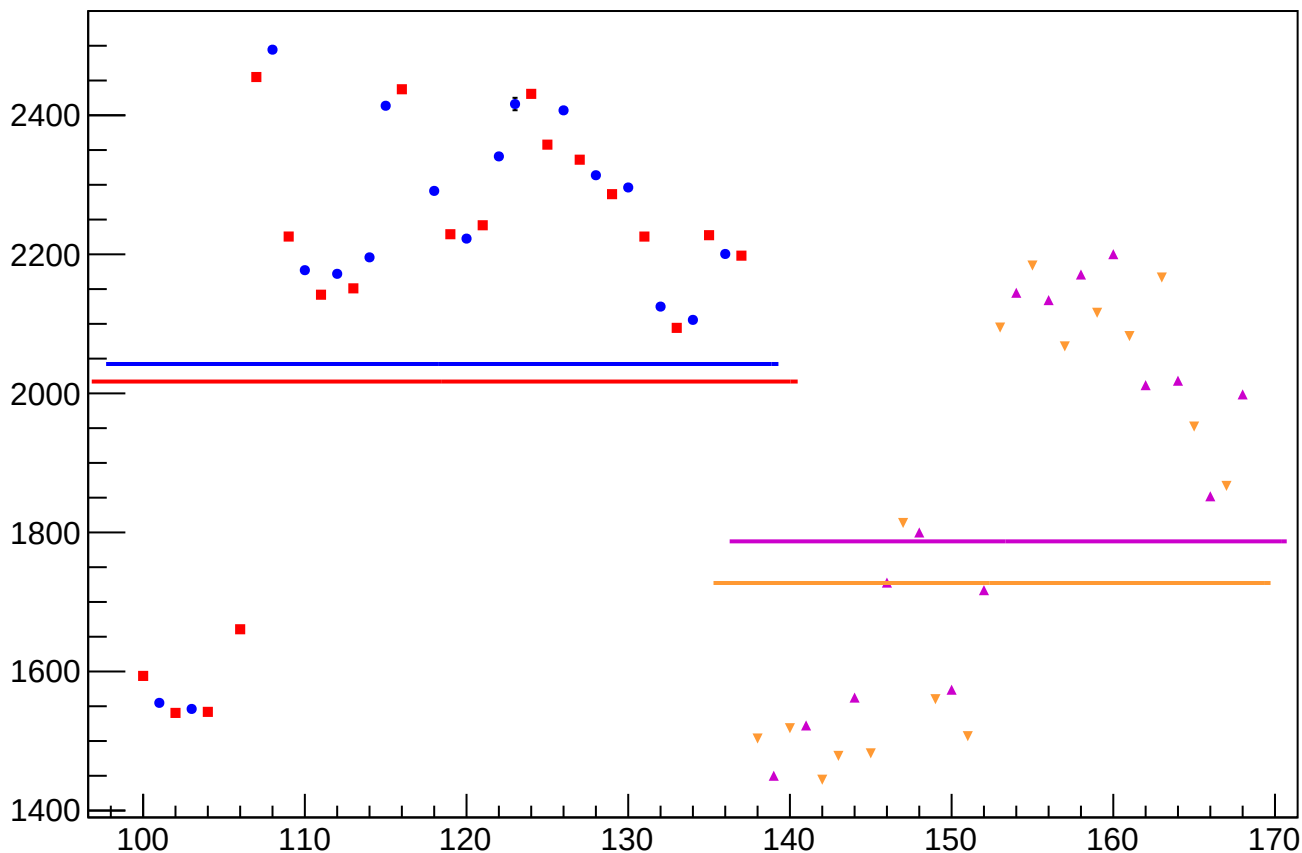
Right: 8.222 ± 0.552 χ^2/NDF : 902.8/35

In: -1.755 ± 0.440 χ^2/NDF : 877.6/31

Out: 4.107 ± 0.423 χ^2/NDF : 552.0/34

All: 1.296 ± 0.305 χ^2/NDF : 1521.8/66

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269+/-0.563 χ^2/NDF : 356820.1/16

Left Out: 1727.284+/-0.359 χ^2/NDF : 579118.0/15

Right Out: 2017.026+/-0.541 χ^2/NDF : 375630.3/18

Left In: 1787.160+/-0.374 χ^2/NDF : 446340.2/14

Left: 1756.002+/-0.259 χ^2/NDF : 1038812.5/30

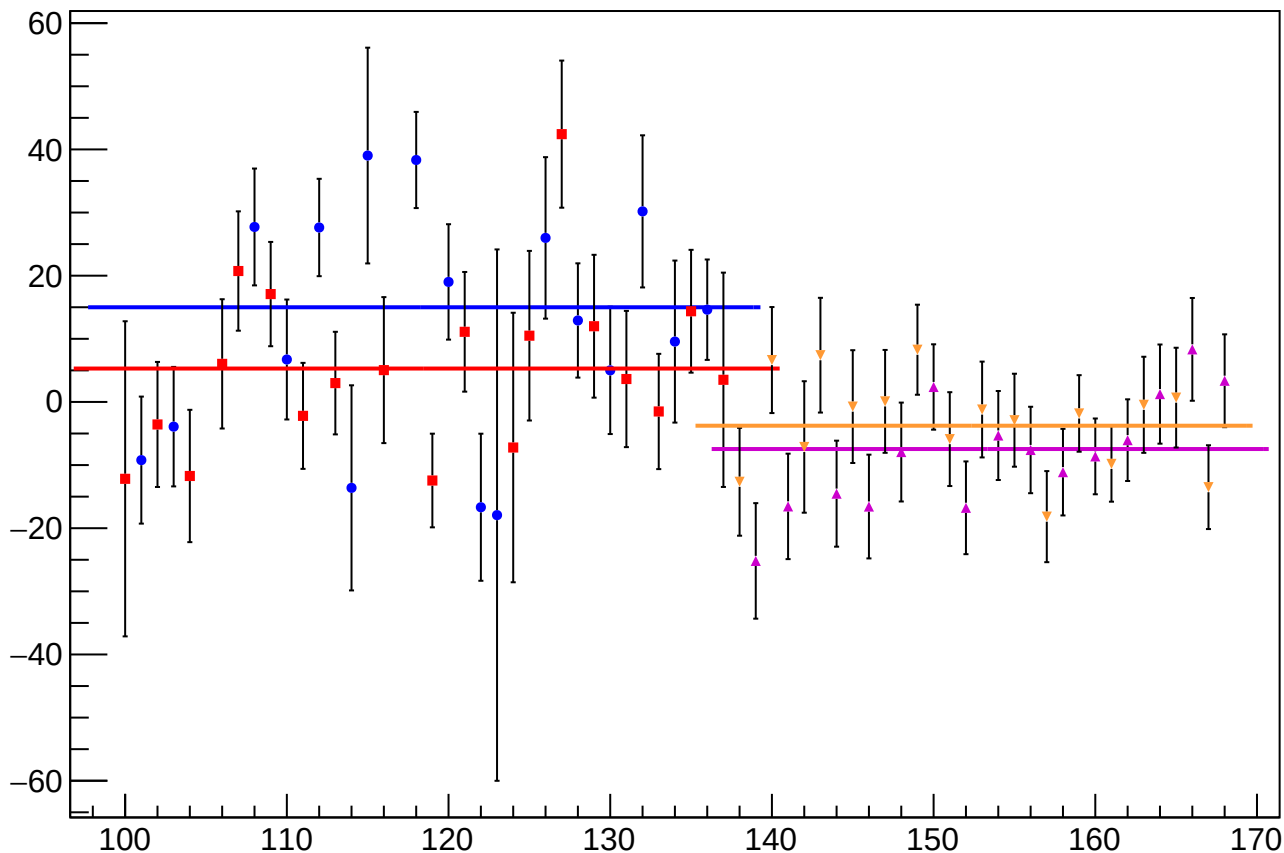
Right: 2029.129+/-0.390 χ^2/NDF : 733495.1/35

In: 1865.115+/-0.311 χ^2/NDF : 945510.3/31

Out: 1815.861+/-0.299 χ^2/NDF : 1154064.2/34

All: 1839.482+/-0.216 χ^2/NDF : 2112588.6/66

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

Left Out: -3.764 $\pm$ 1.888 χ^2/NDF : 15.4/15

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

Left In: -7.457 $\pm$ 1.903 χ^2/NDF : 18.2/14

Left: -5.596 $\pm$ 1.340 χ^2/NDF : 35.5/30

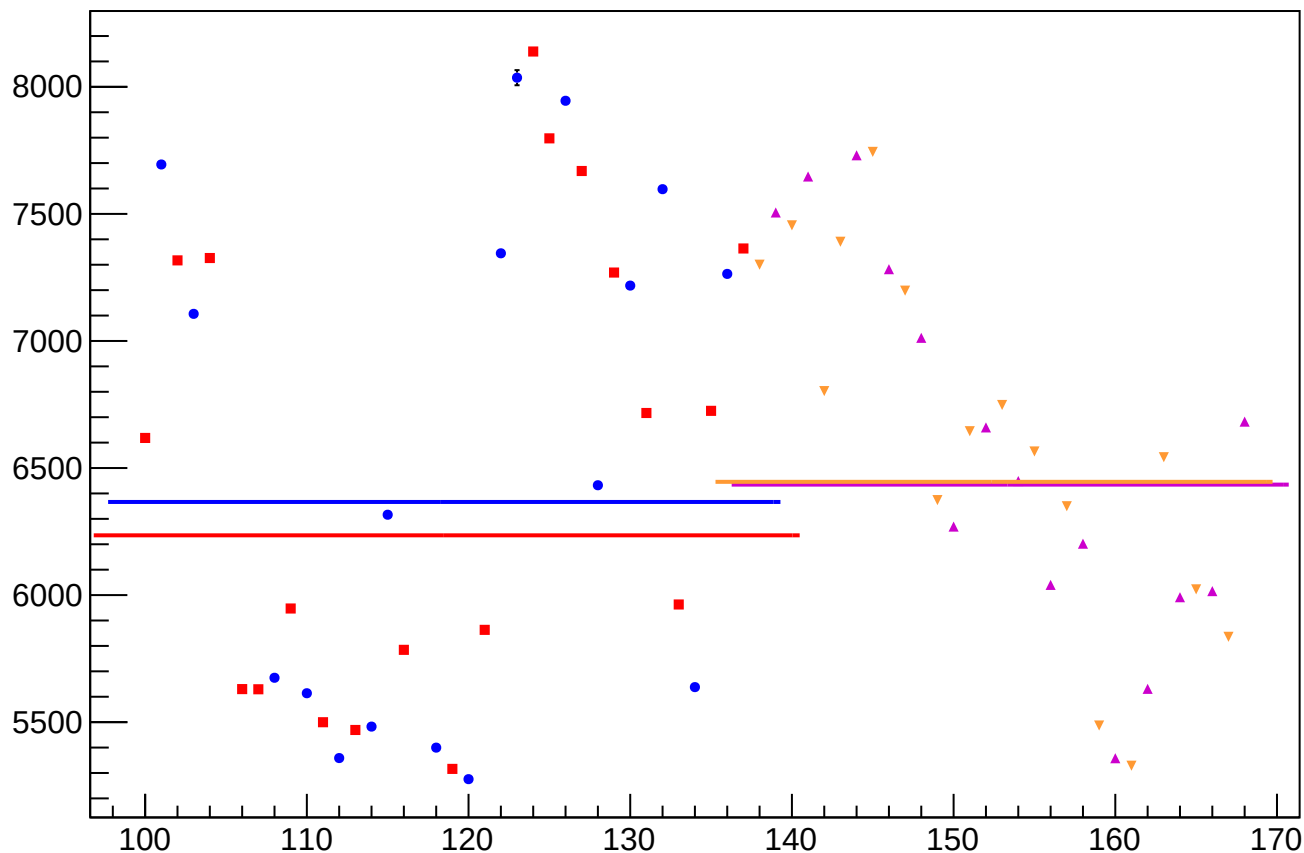
Right: 9.888 $\pm$ 1.710 χ^2/NDF : 77.4/35

In: 0.841 $\pm$ 1.511 χ^2/NDF : 111.0/31

Out: -0.227 $\pm$ 1.473 χ^2/NDF : 52.5/34

All: 0.294 $\pm$ 1.055 χ^2/NDF : 163.7/66

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6445.710 $\pm$ 1.335 χ^2 /NDF: 280392.1/15

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

Left In: 6434.733 $\pm$ 1.346 χ^2 /NDF: 270537.5/14

Left: 6440.266 $\pm$ 0.948 χ^2 /NDF: 550963.1/30

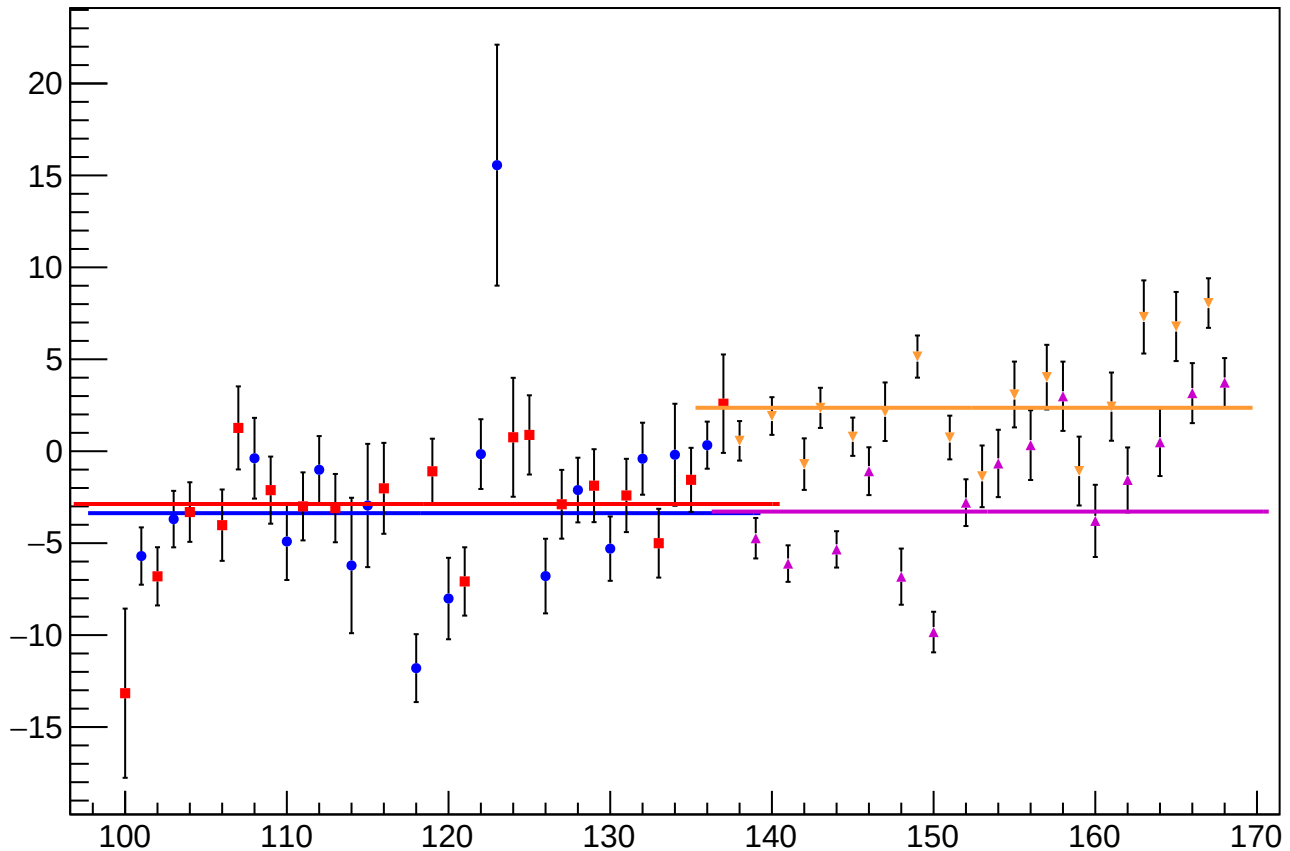
Right: 6297.369 $\pm$ 1.209 χ^2 /NDF: 532637.5/35

In: 6409.512 $\pm$ 1.068 χ^2 /NDF: 557982.6/31

Out: 6363.460 $\pm$ 1.042 χ^2 /NDF: 533315.6/34

All: 6385.909 $\pm$ 0.746 χ^2 /NDF: 1092250.5/66

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 $\pm$ 0.476 χ^2/NDF : 59.9/16

Left Out: 2.363 $\pm$ 0.341 χ^2/NDF : 56.7/15

Right Out: -2.871 $\pm$ 0.456 χ^2/NDF : 32.0/18

Left In: -3.283 $\pm$ 0.354 χ^2/NDF : 123.0/14

Left: -0.356 $\pm$ 0.245 χ^2/NDF : 311.8/30

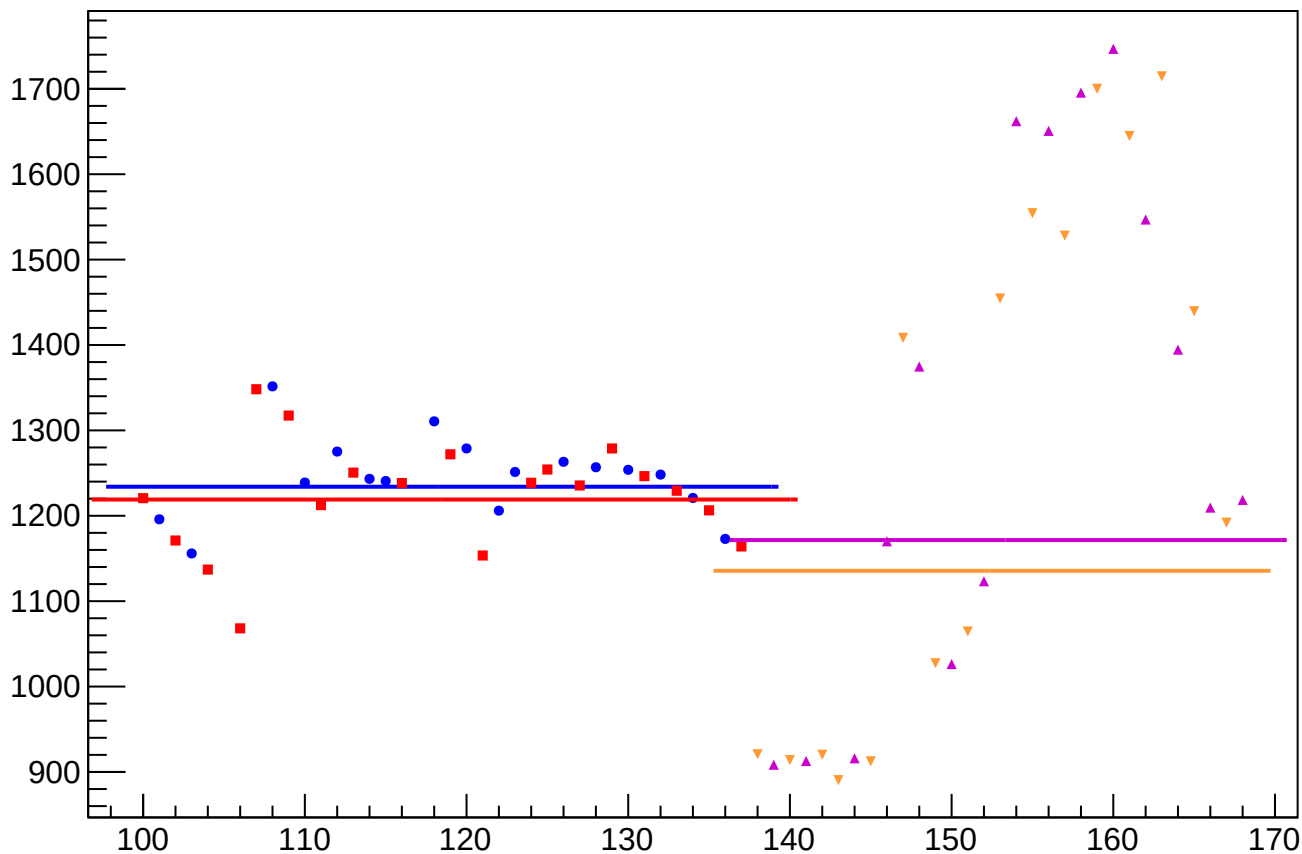
Right: -3.109 $\pm$ 0.329 χ^2/NDF : 92.5/35

In: -3.314 $\pm$ 0.284 χ^2/NDF : 182.9/31

Out: 0.489 $\pm$ 0.273 χ^2/NDF : 173.2/34

All: -1.339 $\pm$ 0.197 χ^2/NDF : 449.3/66

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 $\pm$ 0.336 χ^2 /NDF: 23565.3/16

Left Out: 1135.569 $\pm$ 0.241 χ^2 /NDF:1336600.6/15

Right Out: 1219.041 $\pm$ 0.323 χ^2 /NDF: 40370.4/18

Left In: 1171.567 $\pm$ 0.250 χ^2 /NDF:1177295.0/14

Left: 1152.903 $\pm$ 0.174 χ^2 /NDF: 2524634.9/30

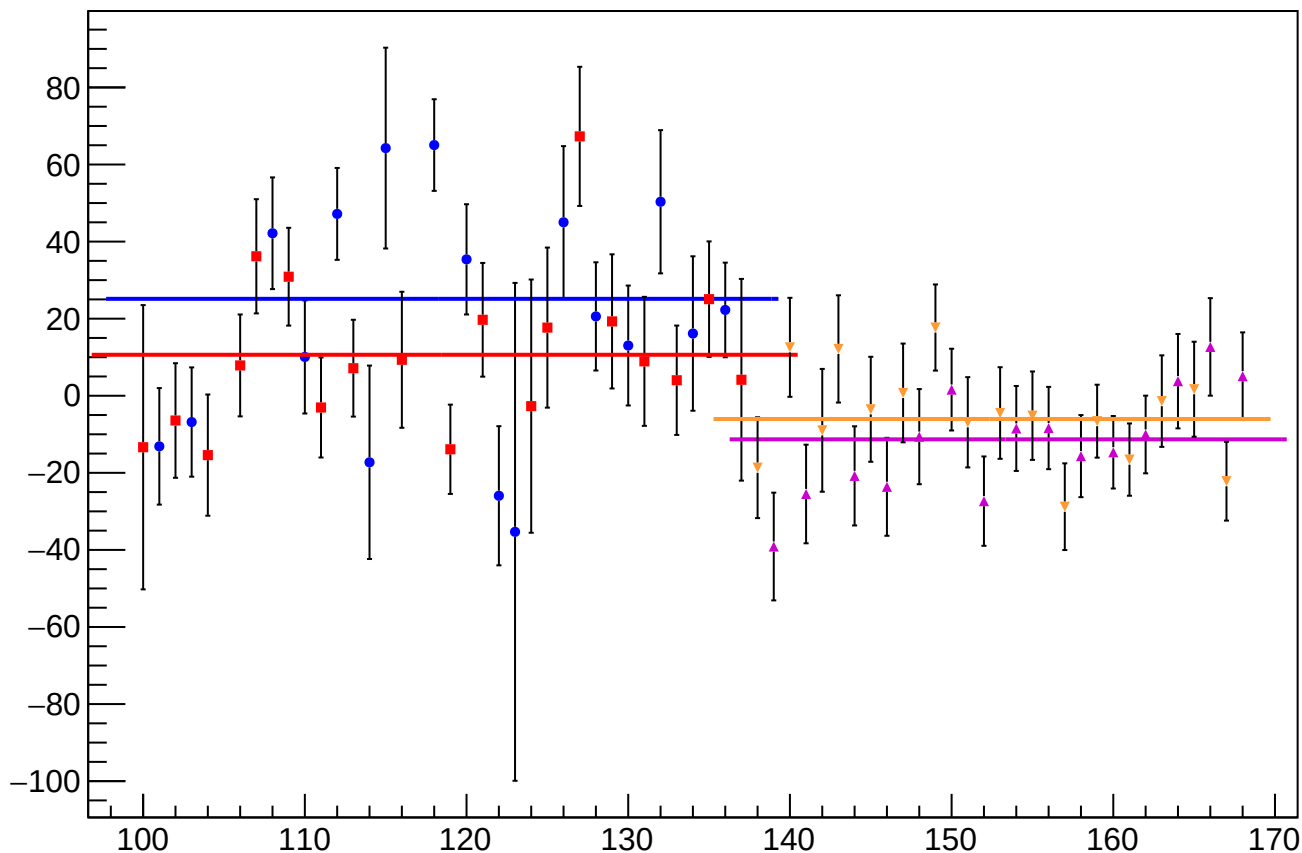
Right: 1226.229 $\pm$ 0.233 χ^2 /NDF: 64970.2/35

In: 1193.819 $\pm$ 0.201 χ^2 /NDF:1223077.2/31

Out: 1165.460 $\pm$ 0.193 χ^2 /NDF:1419913.8/34

All: 1179.095 $\pm$ 0.139 χ^2 /NDF: 2653358.5/66

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149 $\pm$ 3.837 χ^2/NDF : 46.9/16

Left Out: -6.025 $\pm$ 2.934 χ^2/NDF : 18.0/15

Right Out: 10.634 $\pm$ 3.595 χ^2/NDF : 27.7/18

Left In: -11.312 $\pm$ 2.962 χ^2/NDF : 17.7/14

Left: -8.643 $\pm$ 2.085 χ^2/NDF : 37.3/30

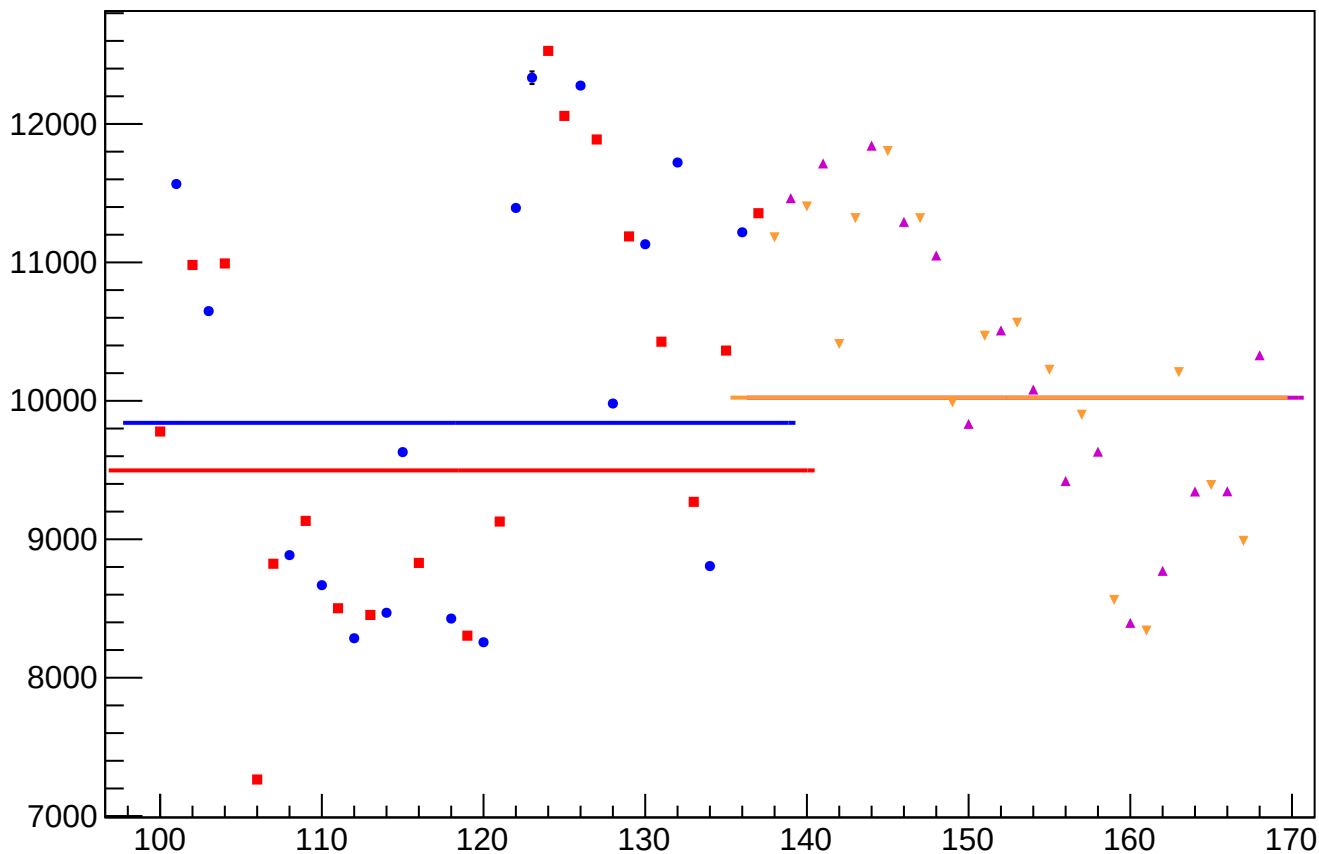
Right: 17.418 $\pm$ 2.623 χ^2/NDF : 82.3/35

In: 2.302 $\pm$ 2.345 χ^2/NDF : 121.2/31

Out: 0.636 $\pm$ 2.273 χ^2/NDF : 58.6/34

All: 1.443 $\pm$ 1.632 χ^2/NDF : 180.1/66

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10023.193 $\pm$ 2.075 χ^2 /NDF: 258212.3/15

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

Left In: 10022.689 $\pm$ 2.095 χ^2 /NDF: 247254.4/14

Left: 10022.943 $\pm$ 1.474 χ^2 /NDF: 505466.8/30

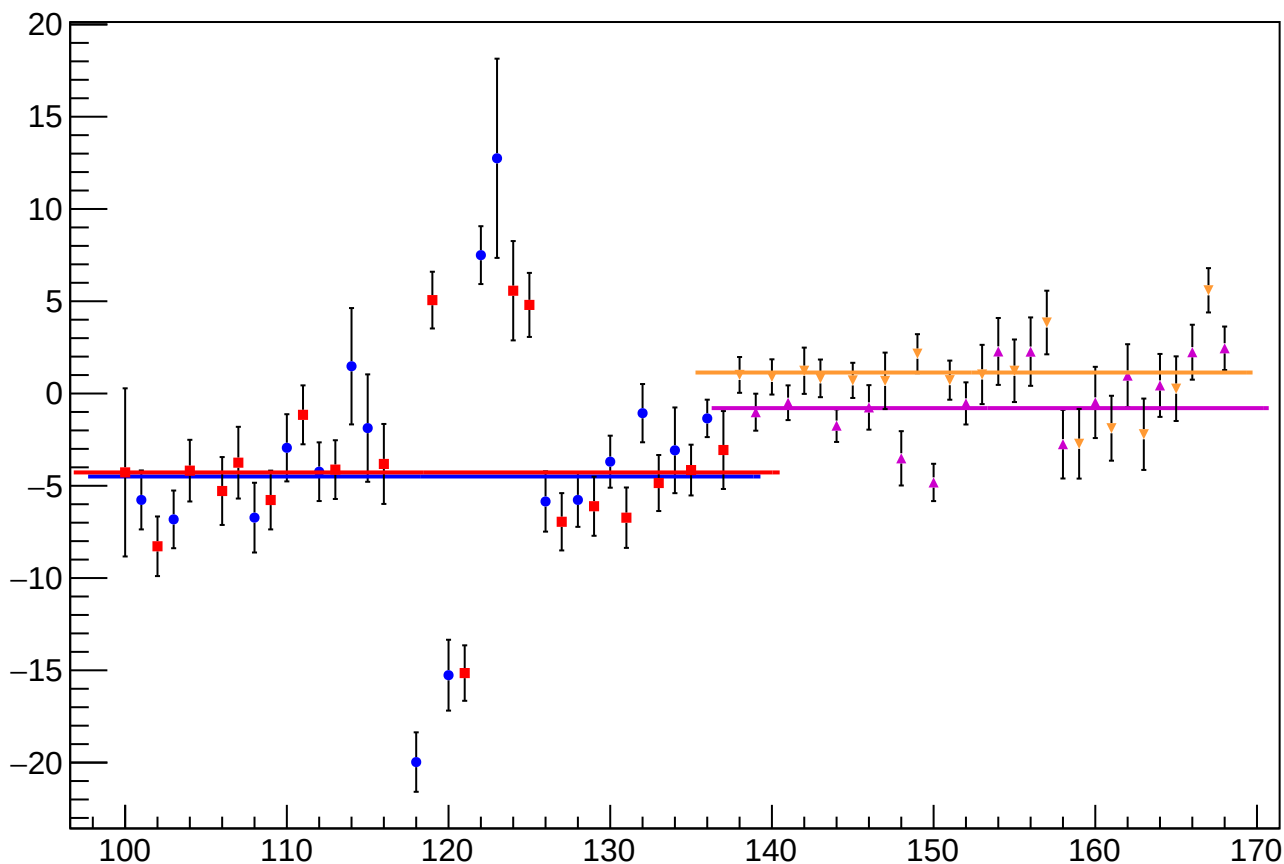
Right: 9658.117 $\pm$ 1.855 χ^2 /NDF: 545307.6/35

In: 9954.915 $\pm$ 1.658 χ^2 /NDF: 510120.9/31

Out: 9812.989 $\pm$ 1.607 χ^2 /NDF: 560584.8/34

All: 9881.746 $\pm$ 1.154 χ^2 /NDF: 1074483.1/66

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.497 ± 0.408 χ^2/NDF : 218.4/16

Left Out: 1.137 ± 0.316 χ^2/NDF : 28.2/15

Right Out: -4.277 ± 0.394 χ^2/NDF : 148.2/18

Left In: -0.792 ± 0.328 χ^2/NDF : 40.7/14

Left: 0.209 ± 0.227 χ^2/NDF : 86.8/30

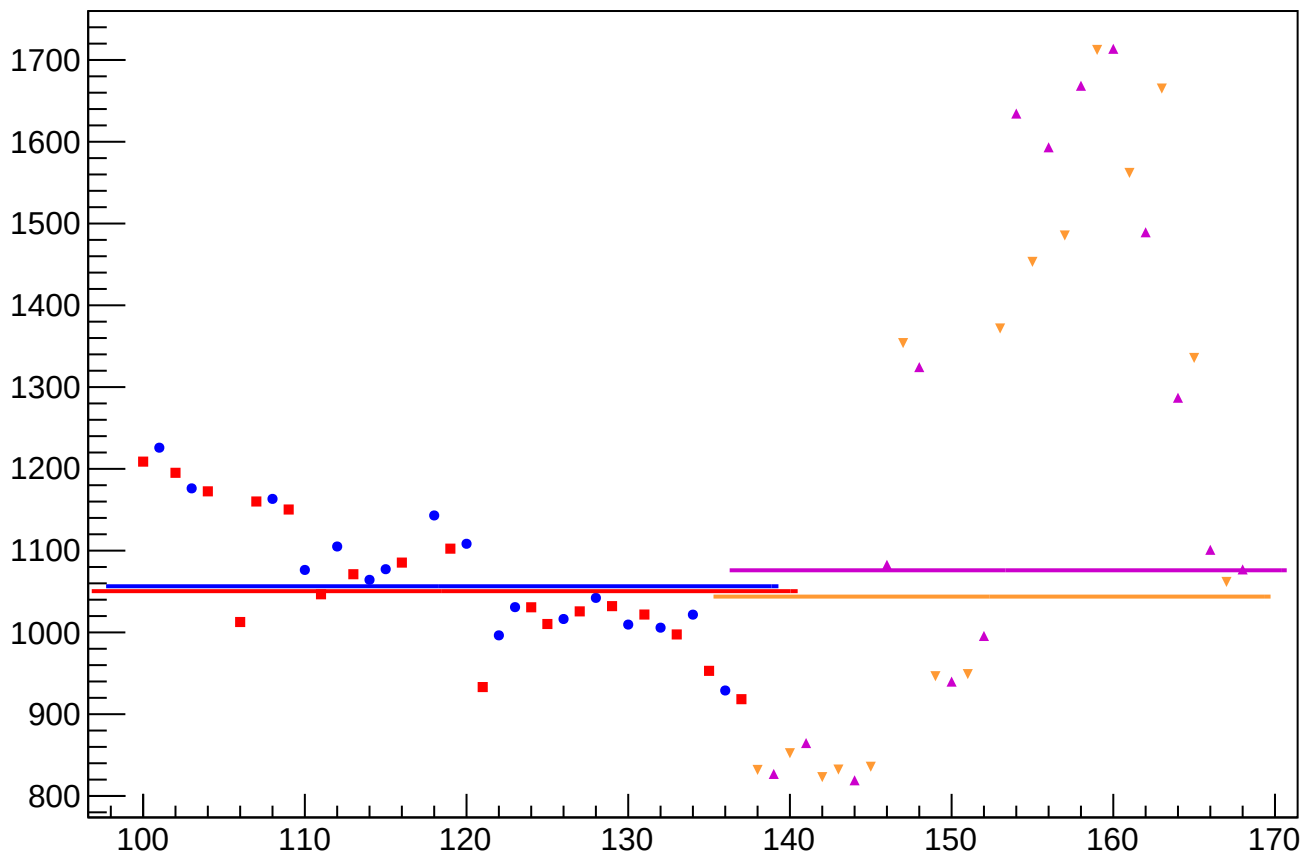
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.244 ± 0.256 χ^2/NDF : 309.2/31

Out: -0.980 ± 0.246 χ^2/NDF : 291.4/34

All: -1.589 ± 0.177 χ^2/NDF : 613.3/66

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.436 $\pm$ 0.289 χ^2/NDF : 90773.0/16

Left Out: 1043.796 $\pm$ 0.223 χ^2/NDF :1552357.4/15

Right Out: 1050.443 $\pm$ 0.279 χ^2/NDF : 82396.5/18

Left In: 1075.963 $\pm$ 0.232 χ^2/NDF :1412248.7/14

Left: 1059.281 $\pm$ 0.161 χ^2/NDF : 2974601.2/30

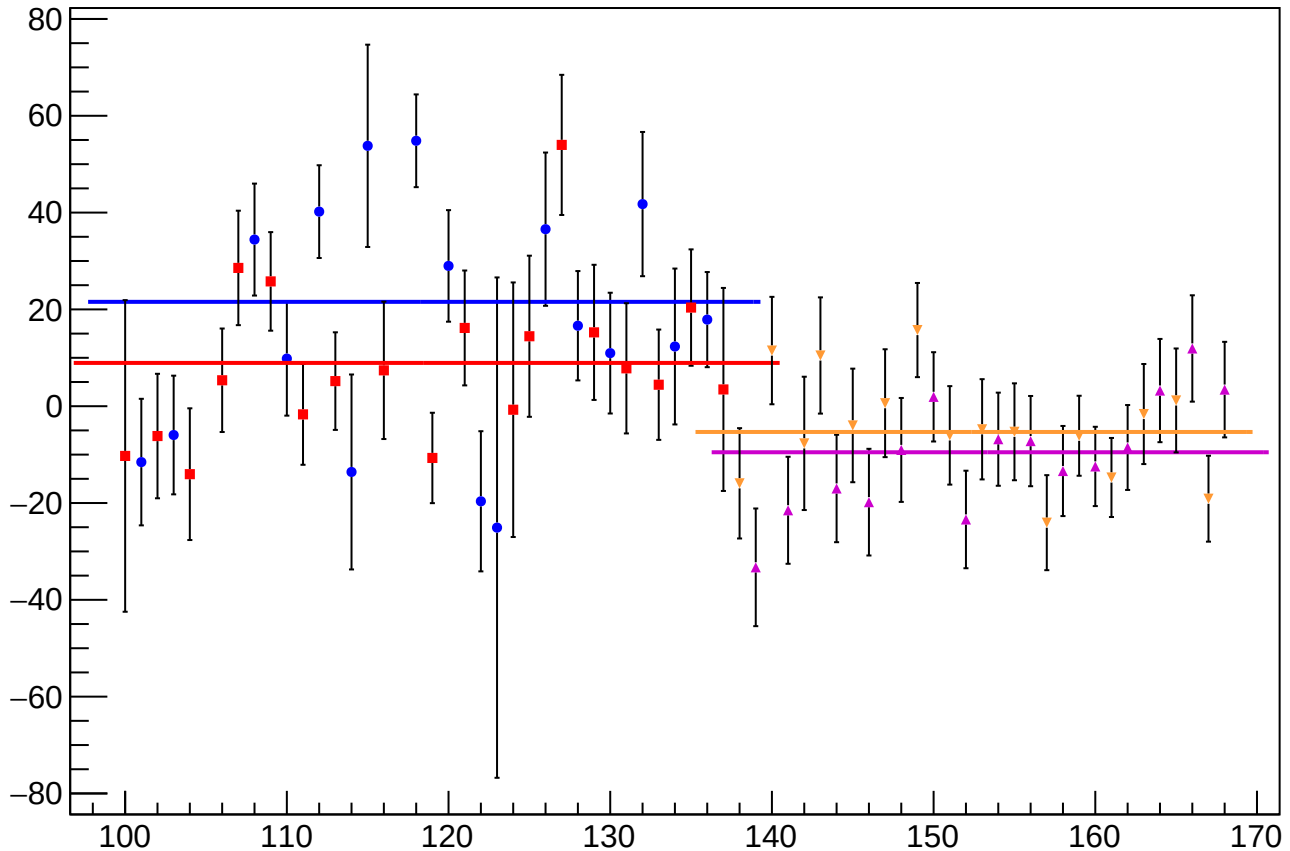
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

In: 1068.310 $\pm$ 0.181 χ^2/NDF :1505805.3/31

Out: 1046.396 $\pm$ 0.174 χ^2/NDF :1635100.7/34

All: 1056.952 $\pm$ 0.125 χ^2/NDF : 3148529.8/66

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561 ± 3.110 $\chi^2/\text{NDF}: 48.4/16$

Left Out: -5.320 ± 2.551 $\chi^2/\text{NDF}: 17.8/15$

Right Out: 8.943 ± 2.912 $\chi^2/\text{NDF}: 27.4/18$

Left In: -9.514 ± 2.576 $\chi^2/\text{NDF}: 17.2/14$

Left: -7.397 ± 1.813 $\chi^2/\text{NDF}: 36.3/30$

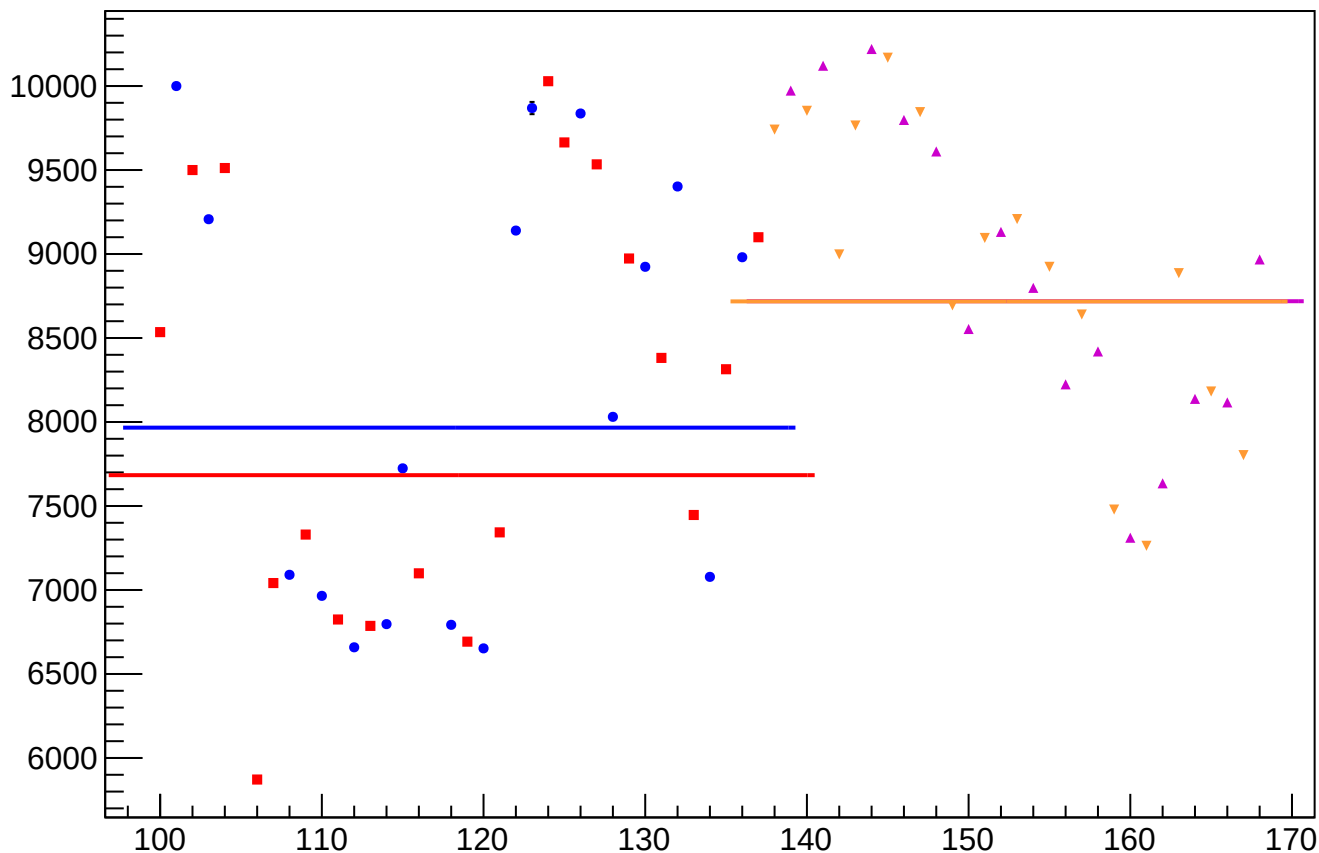
Right: 14.837 ± 2.126 $\chi^2/\text{NDF}: 84.6/35$

In: 3.129 ± 1.984 $\chi^2/\text{NDF}: 124.8/31$

Out: 0.874 ± 1.919 $\chi^2/\text{NDF}: 58.8/34$

All: 1.964 ± 1.379 $\chi^2/\text{NDF}: 184.3/66$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 $\pm$ 2.199 χ^2 /NDF: 296611.1/16

Left Out: 8717.914 $\pm$ 1.804 χ^2 /NDF: 247487.9/15

Right Out: 7683.479 $\pm$ 2.059 χ^2 /NDF: 315033.7/18

Left In: 8718.946 $\pm$ 1.822 χ^2 /NDF: 237708.9/14

Left: 8718.425 $\pm$ 1.282 χ^2 /NDF: 485196.9/30

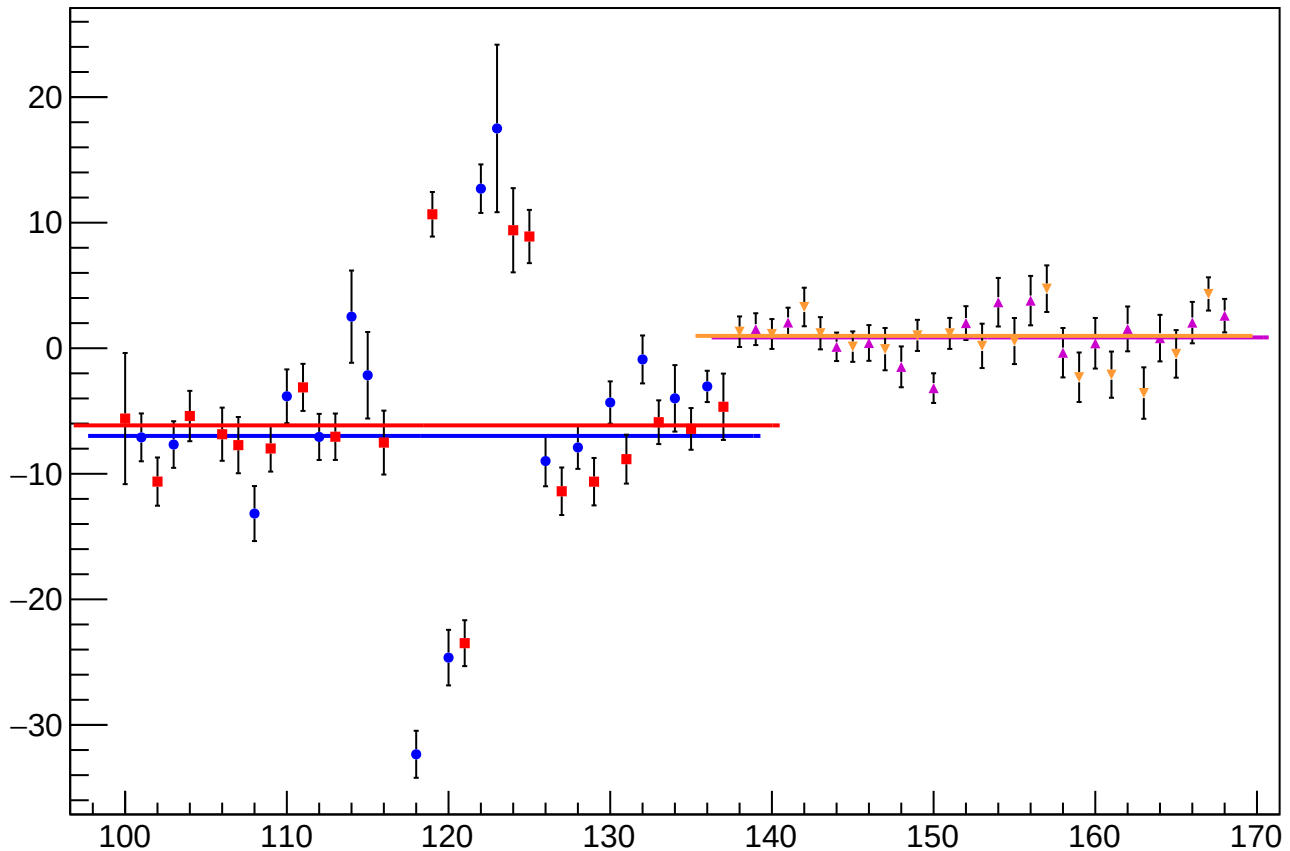
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8412.765 $\pm$ 1.403 χ^2 /NDF: 603762.5/31

Out: 8268.670 $\pm$ 1.357 χ^2 /NDF: 705308.5/34

All: 8338.317 $\pm$ 0.975 χ^2 /NDF: 1314521.7/66

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 0.985 ± 0.370 χ^2/NDF : 25.1/15

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

Left In: 0.861 ± 0.383 χ^2/NDF : 23.4/14

Left: 0.925 ± 0.266 χ^2/NDF : 48.6/30

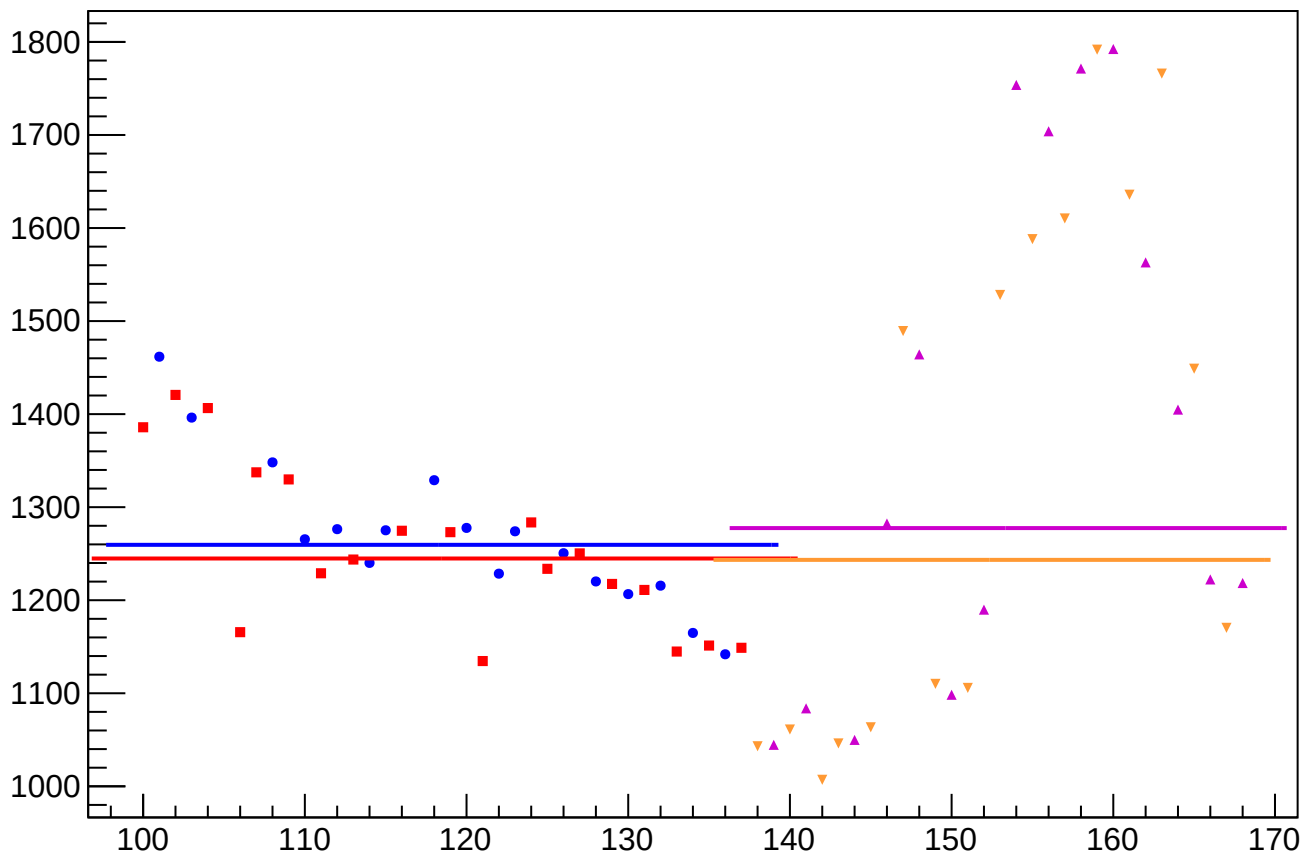
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -2.142 ± 0.301 χ^2/NDF : 592.6/31

Out: -1.768 ± 0.290 χ^2/NDF : 445.9/34

All: -1.948 ± 0.209 χ^2/NDF : 1039.3/66

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1243.366 $\pm$ 0.262 χ^2 /NDF: 936392.1/15

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

Left In: 1277.523 $\pm$ 0.271 χ^2 /NDF: 821323.1/14

Left: 1259.866 $\pm$ 0.188 χ^2 /NDF: 1765944.7/30

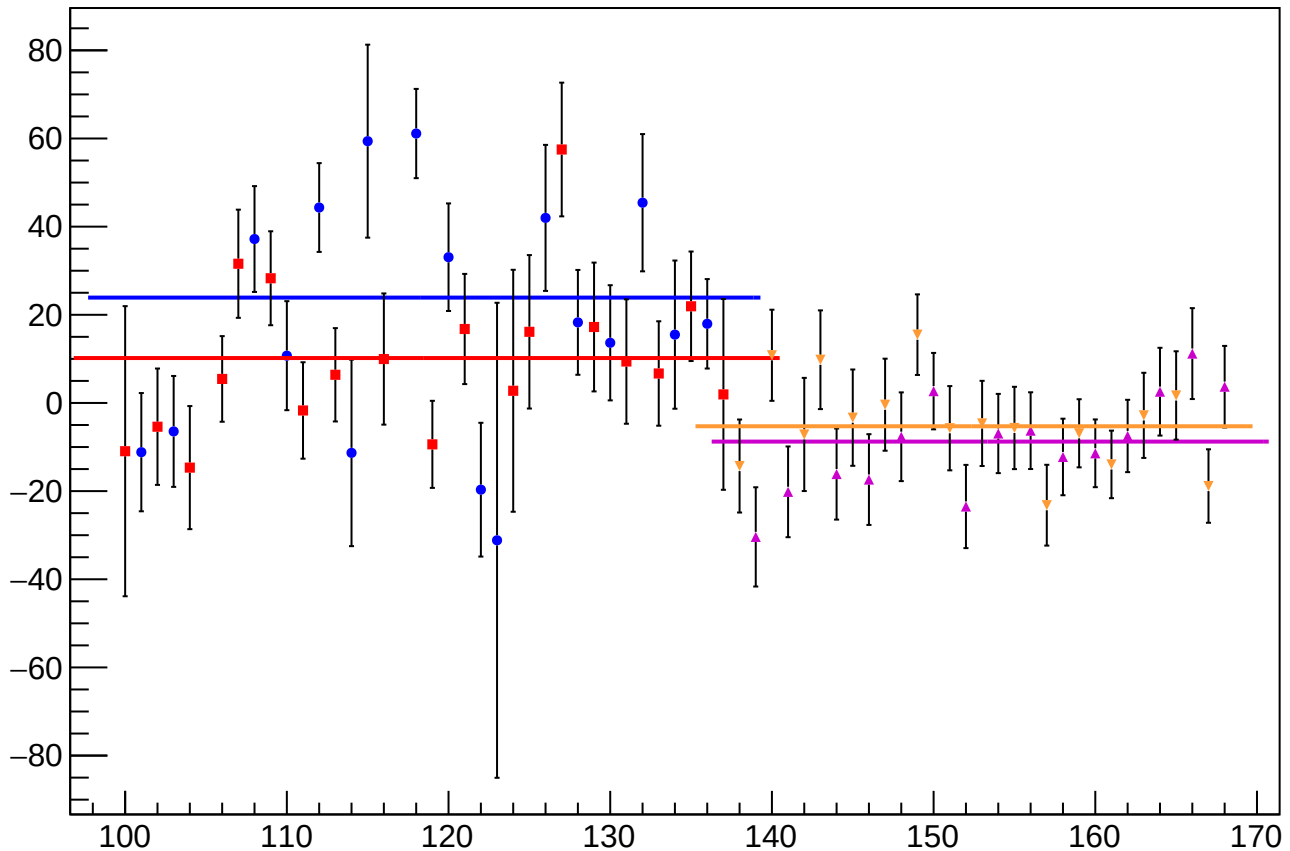
Right: 1251.883 $\pm$ 0.238 χ^2 /NDF: 132621.3/35

In: 1270.636 $\pm$ 0.213 χ^2 /NDF: 887858.2/31

Out: 1243.934 $\pm$ 0.205 χ^2 /NDF: 1003230.3/34

All: 1256.797 $\pm$ 0.148 χ^2 /NDF: 1899258.2/66

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.904 ± 3.251 $\chi^2/\text{NDF}: 52.4/16$

Left Out: -5.287 ± 2.385 $\chi^2/\text{NDF}: 18.8/15$

Right Out: 10.190 ± 3.006 $\chi^2/\text{NDF}: 27.9/18$

Left In: -8.764 ± 2.409 $\chi^2/\text{NDF}: 17.6/14$

Left: -7.008 ± 1.695 $\chi^2/\text{NDF}: 37.4/30$

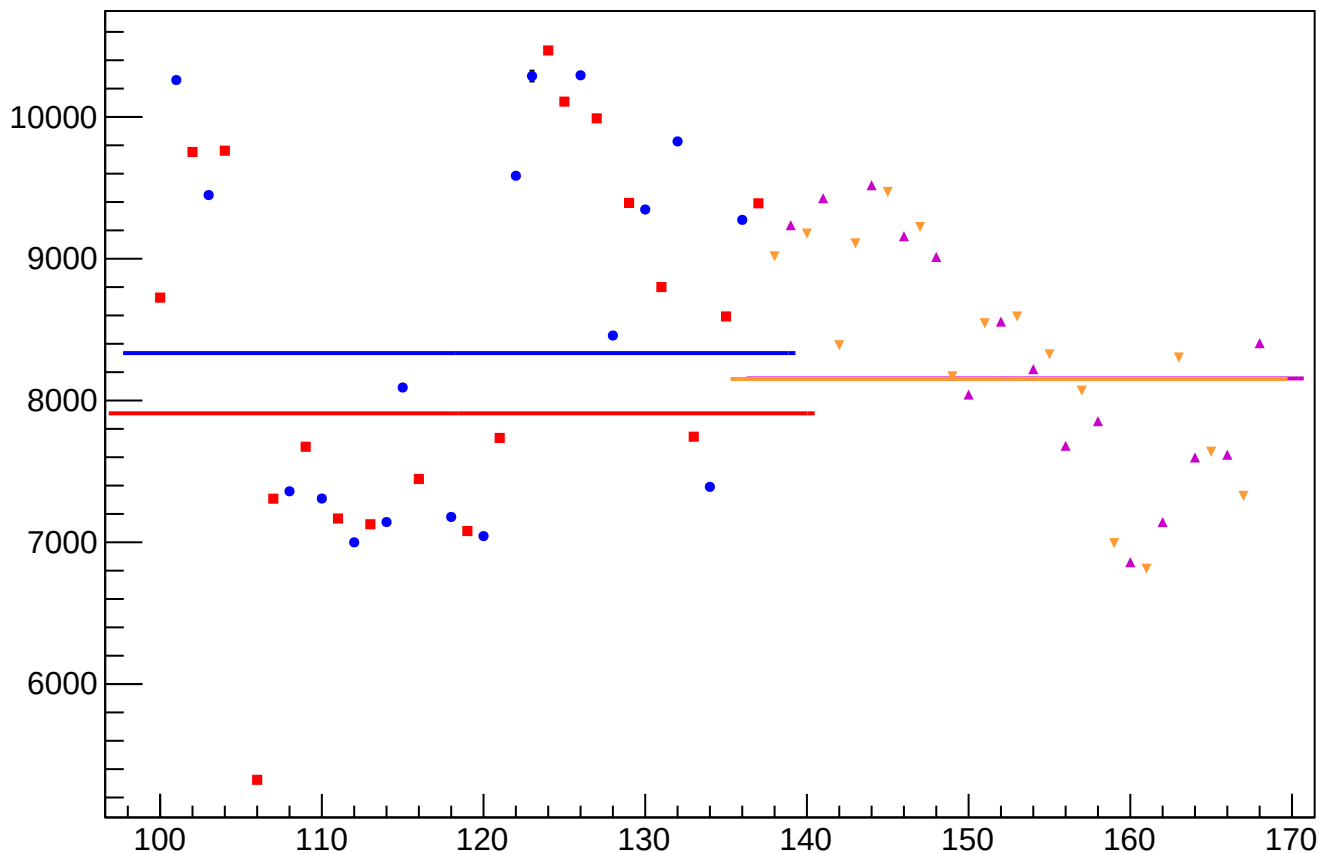
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 2.818 ± 1.935 $\chi^2/\text{NDF}: 135.2/31$

Out: 0.693 ± 1.868 $\chi^2/\text{NDF}: 63.0/34$

All: 1.718 ± 1.344 $\chi^2/\text{NDF}: 198.8/66$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8152.161 $\pm$ 1.687 χ^2 /NDF:238250.6/15

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

Left In: 8155.768 $\pm$ 1.703 χ^2 /NDF:230075.1/14

Left: 8153.946 $\pm$ 1.199 χ^2 /NDF: 468328.0/30

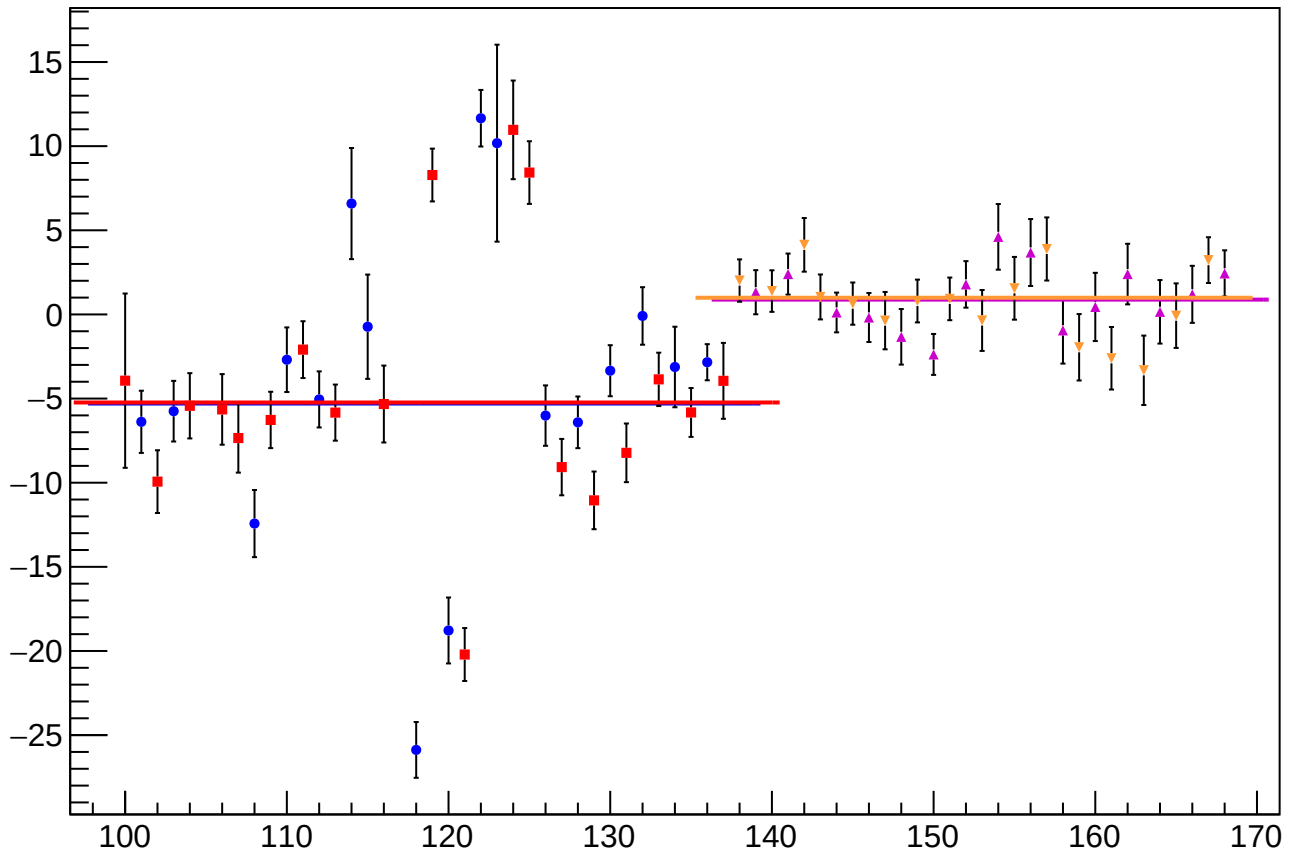
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8219.137 $\pm$ 1.369 χ^2 /NDF:506280.9/31

Out: 8058.440 $\pm$ 1.321 χ^2 /NDF:637061.3/34

All: 8135.952 $\pm$ 0.951 χ^2 /NDF: 1150478.9/66

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.295 $\pm$ 0.437 χ^2/NDF : 358.1/16

Left Out: 0.991 $\pm$ 0.380 χ^2/NDF :21.8/15

Right Out: -5.233 $\pm$ 0.422 χ^2/NDF : 281.9/18

Left In: 0.880 $\pm$ 0.392 χ^2/NDF :20.7/14

Left: 0.938 $\pm$ 0.273 χ^2/NDF : 42.5/30

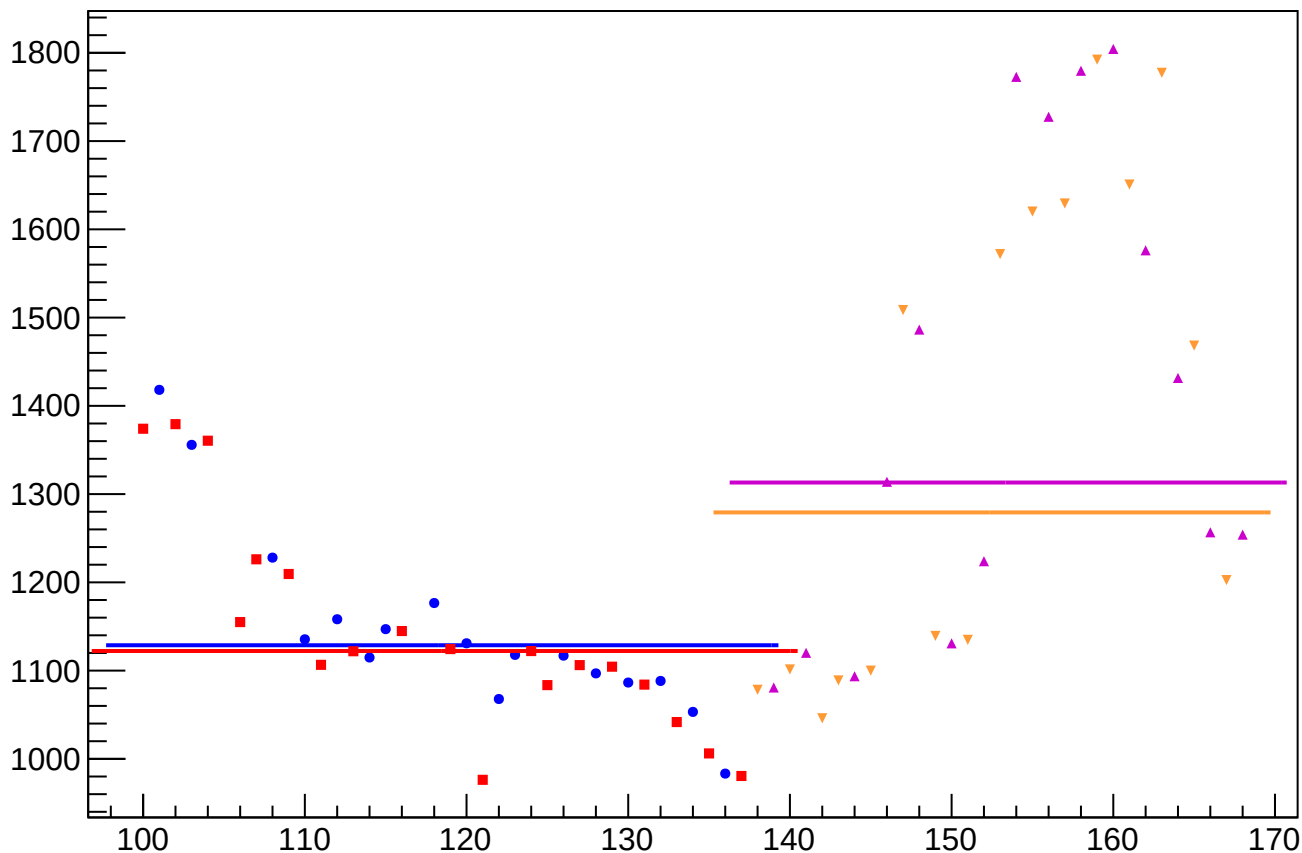
Right: -5.263 $\pm$ 0.303 χ^2/NDF : 640.0/35

In: -1.878 $\pm$ 0.292 χ^2/NDF :489.4/31

Out: -1.796 $\pm$ 0.282 χ^2/NDF :424.0/34

All: -1.836 $\pm$ 0.203 χ^2/NDF : 913.5/66

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 ± 0.309 χ^2/NDF : 133096.9/16

Left Out: 1279.236 ± 0.269 χ^2/NDF : 849888.3/15

Right Out: 1122.238 ± 0.298 χ^2/NDF : 129601.6/18

Left In: 1313.110 ± 0.278 χ^2/NDF : 740428.6/14

Left: 1295.614 ± 0.193 χ^2/NDF : 1598011.8/30

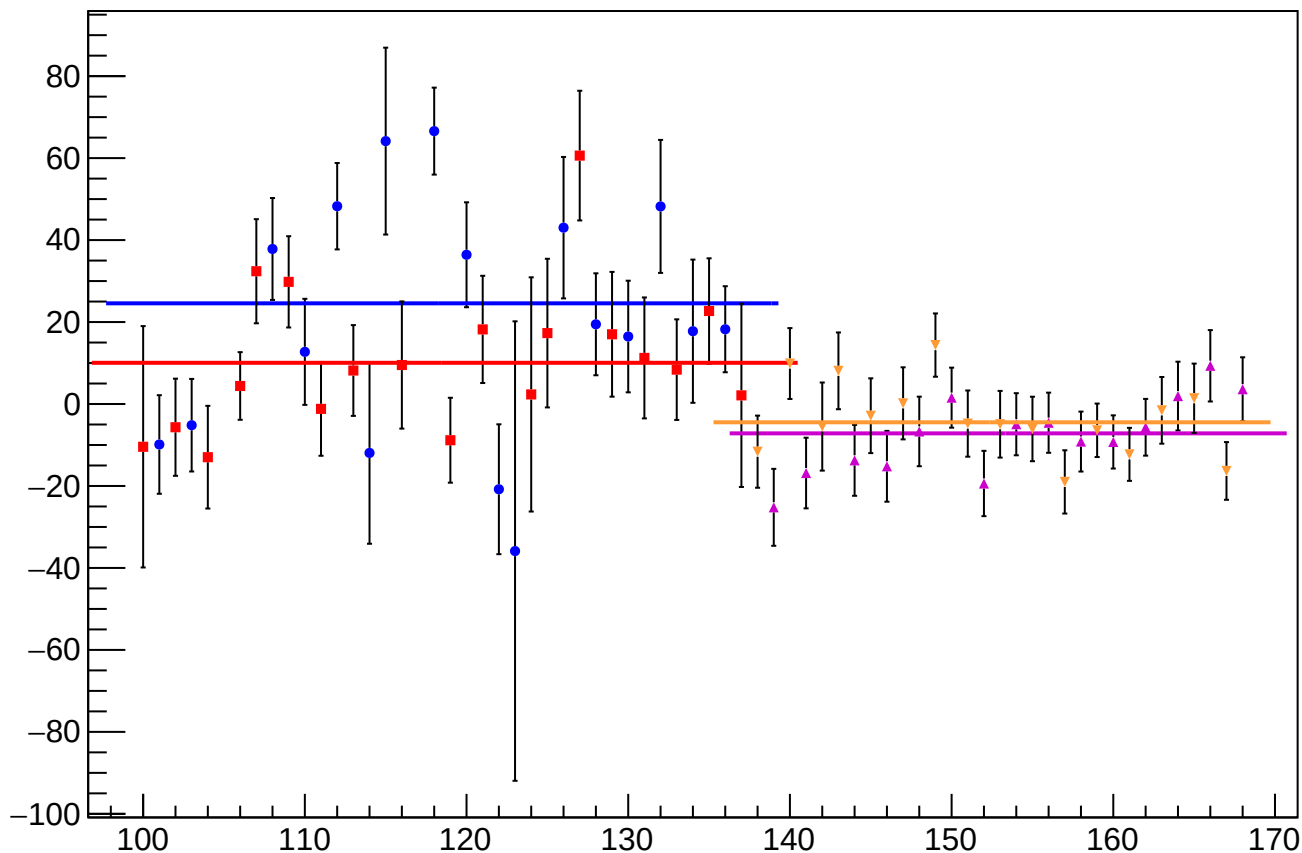
Right: 1125.374 ± 0.215 χ^2/NDF : 262927.9/35

In: 1230.757 ± 0.206 χ^2/NDF : 1070652.6/31

Out: 1208.926 ± 0.200 χ^2/NDF : 1132588.8/34

All: 1219.469 ± 0.143 χ^2/NDF : 2209023.1/60

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 $\pm$ 3.318 χ^2 /NDF: 58.1/16

Left Out: -4.462 $\pm$ 2.008 χ^2 /NDF:20.1/15

Right Out: 10.057 $\pm$ 3.008 χ^2 /NDF: 28.8/18

Left In: -7.162 $\pm$ 2.029 χ^2 /NDF:17.3/14

Left: -5.798 $\pm$ 1.427 χ^2 /NDF: 38.3/30

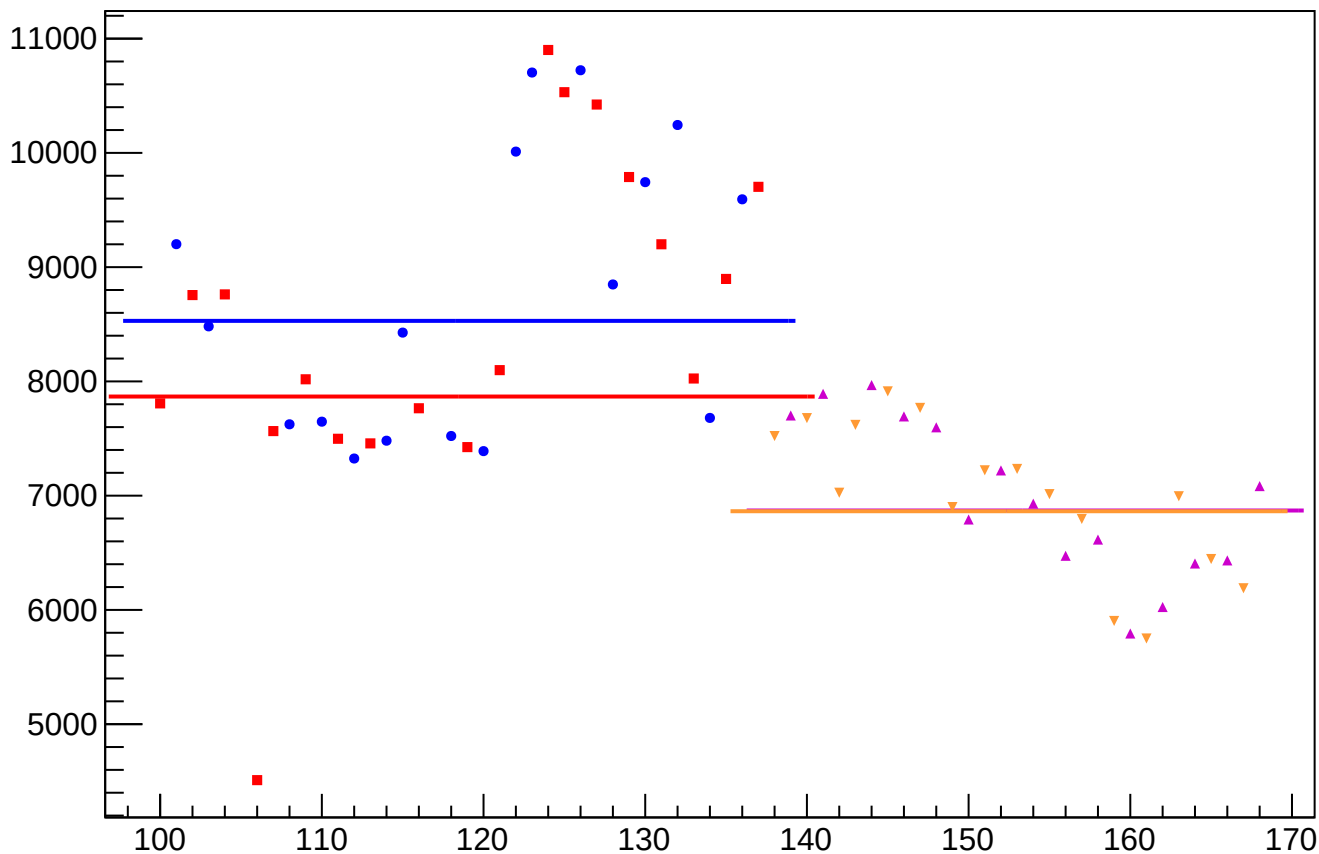
Right: 16.602 $\pm$ 2.229 χ^2 /NDF: 97.4/35

In: 1.471 $\pm$ 1.731 χ^2 /NDF:141.9/31

Out: 0.012 $\pm$ 1.670 χ^2 /NDF:65.0/34

All: 0.715 $\pm$ 1.202 χ^2 /NDF: 207.3/66

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821 ± 2.346 $\chi^2/\text{NDF}: 208336.1/16$

Left Out: 6863.797 ± 1.420 $\chi^2/\text{NDF}: 225461.0/15$

Right Out: 7867.584 ± 2.127 $\chi^2/\text{NDF}: 555841.7/18$

Left In: 6870.058 ± 1.434 $\chi^2/\text{NDF}: 218828.0/14$

Left: 6866.895 ± 1.009 $\chi^2/\text{NDF}: 444298.6/30$

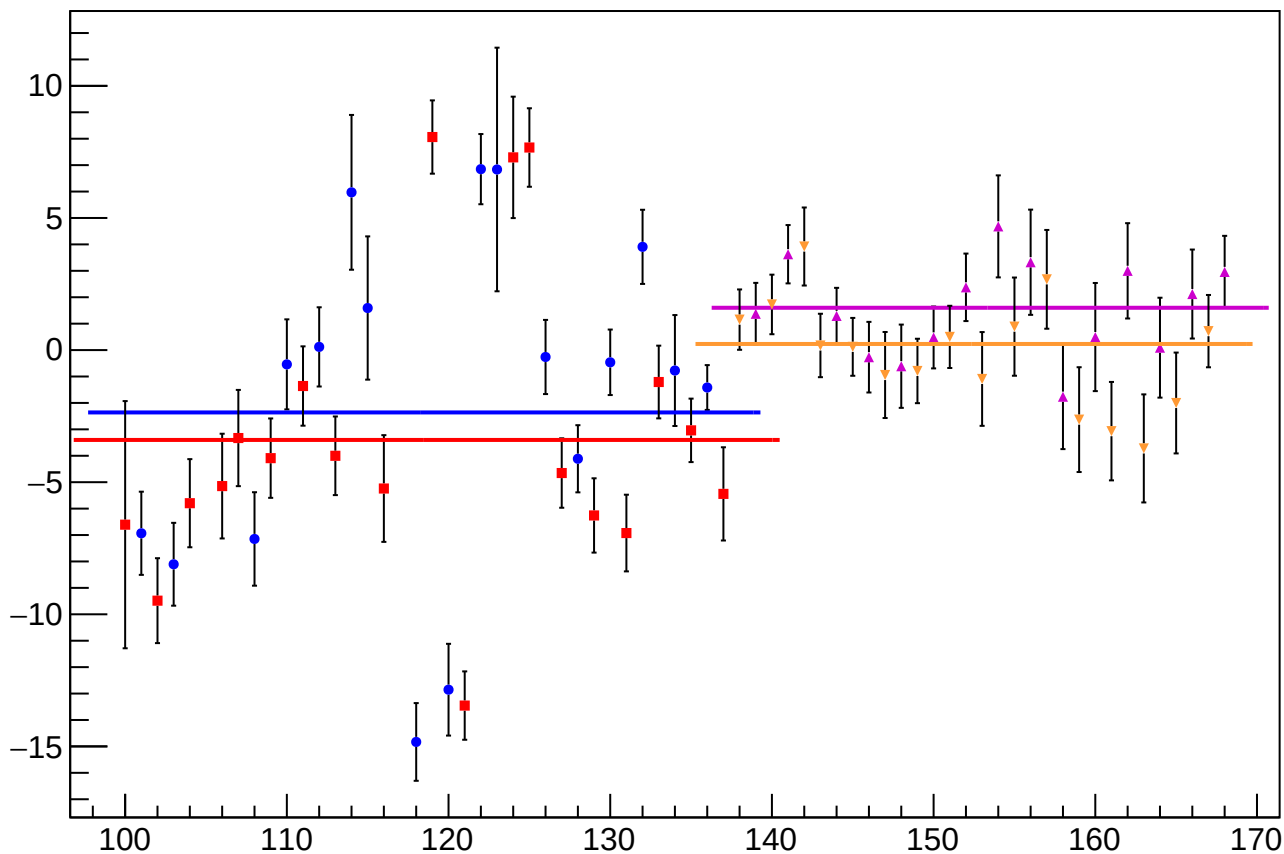
Right: 8166.253 ± 1.576 $\chi^2/\text{NDF}: 807907.7/35$

In: 7321.594 ± 1.224 $\chi^2/\text{NDF}: 791393.6/31$

Out: 7173.168 ± 1.181 $\chi^2/\text{NDF}: 935415.4/34$

All: 7244.716 ± 0.850 $\chi^2/\text{NDF}: 1734427.2/66$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: 0.231 ± 0.358 χ^2/NDF : 22.8/15

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

Left In: 1.602 ± 0.372 χ^2/NDF : 17.5/14

Left: 0.891 ± 0.258 χ^2/NDF : 47.3/30

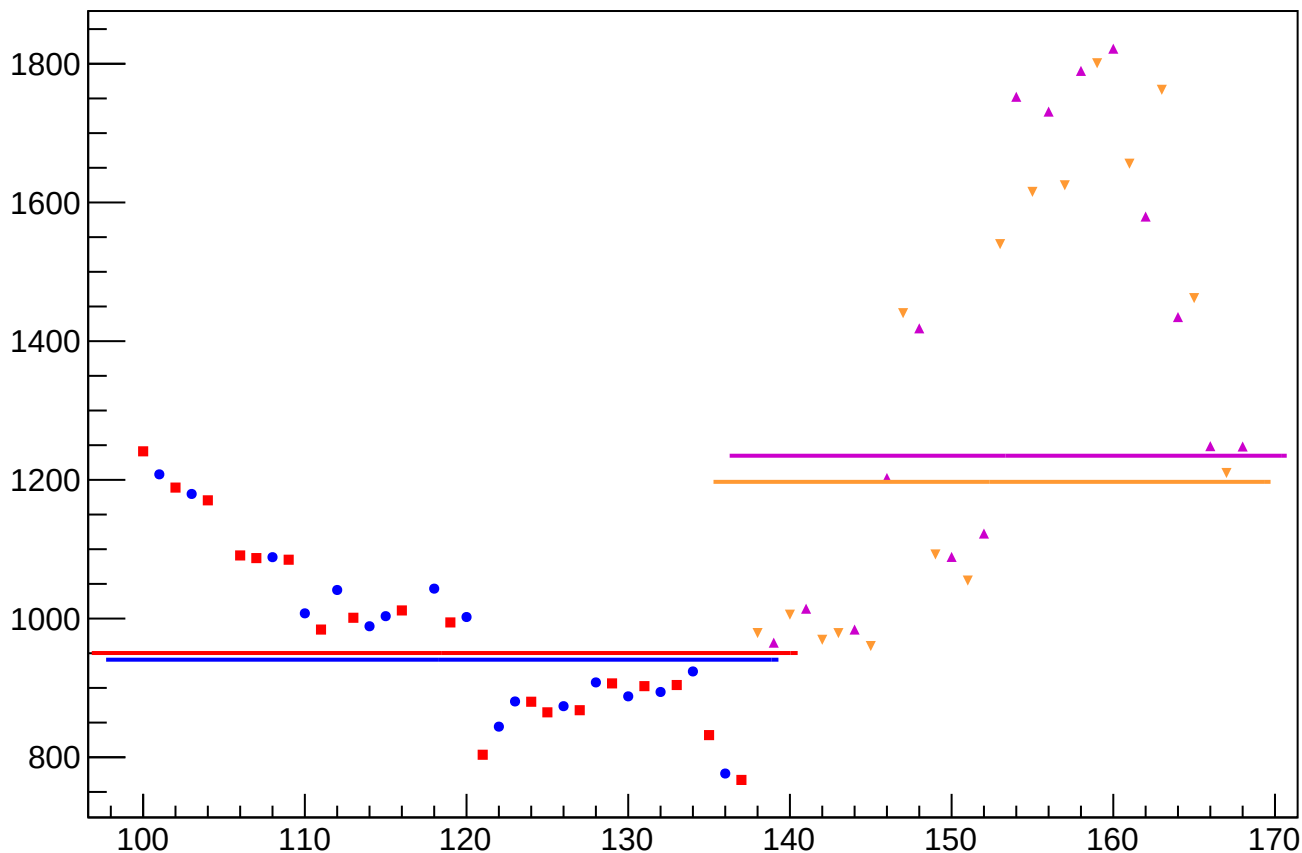
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.413 ± 0.261 χ^2/NDF : 307.2/31

Out: -1.585 ± 0.253 χ^2/NDF : 315.6/34

All: -1.016 ± 0.182 χ^2/NDF : 633.2/66

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1197.152+/-0.253 χ^2/NDF :1205090.5/15

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

Left In: 1234.812+/-0.263 χ^2/NDF :1056962.5/14

Left: 1215.275+/-0.182 χ^2/NDF : 2272694.1/30

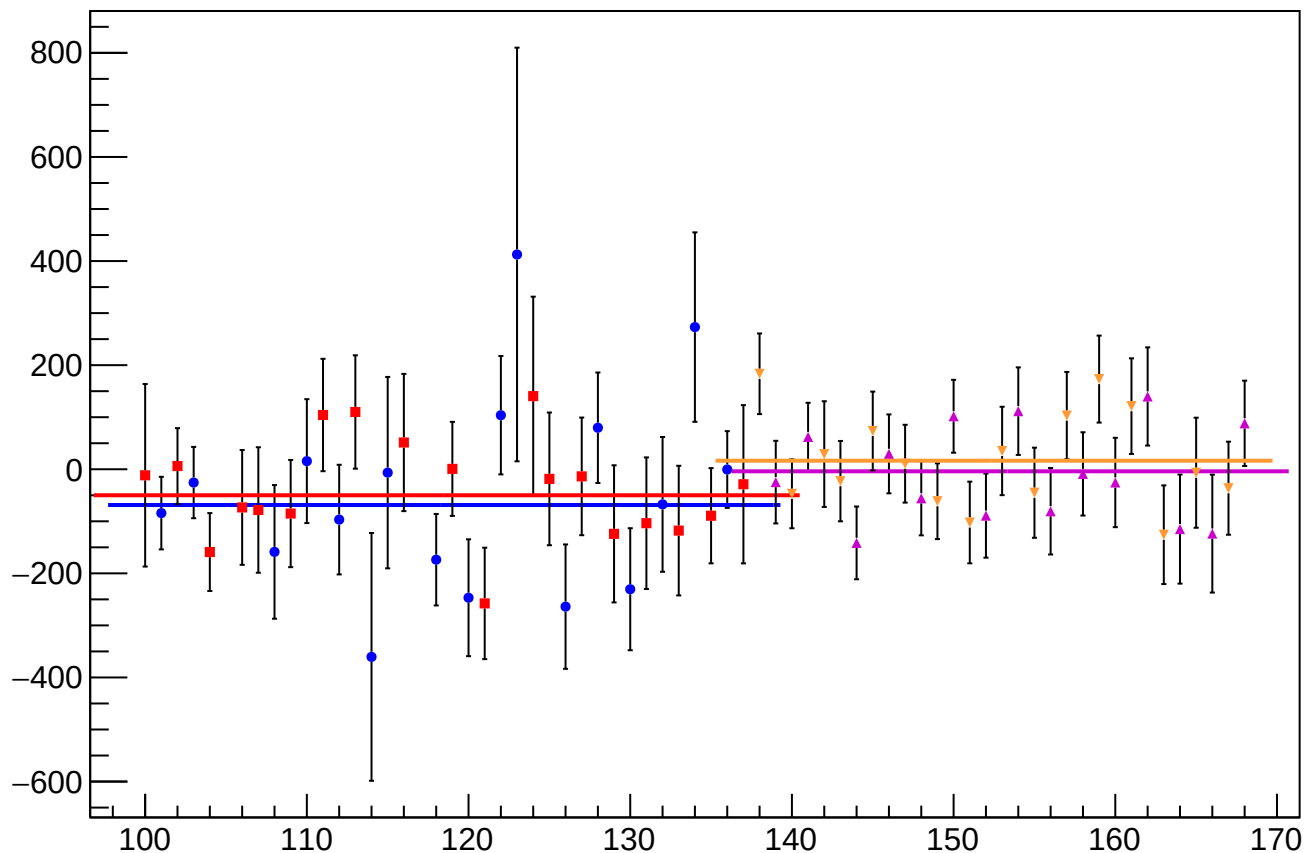
Right: 945.597+/-0.181 χ^2/NDF : 463155.1/35

In: 1085.225+/-0.184 χ^2/NDF :1935047.7/31

Out: 1073.746+/-0.179 χ^2/NDF :1900686.2/34

All: 1079.320+/-0.128 χ^2/NDF : 3837728.8/66

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 16.459 $\pm$ 20.556 χ^2/NDF : 18.9/15

Right Out: -49.958 $\pm$ 25.020 χ^2/NDF : 14.0/18

Left In: -3.931 $\pm$ 20.702 χ^2/NDF : 17.7/14

Left: 6.336 $\pm$ 14.587 χ^2/NDF : 37.1/30

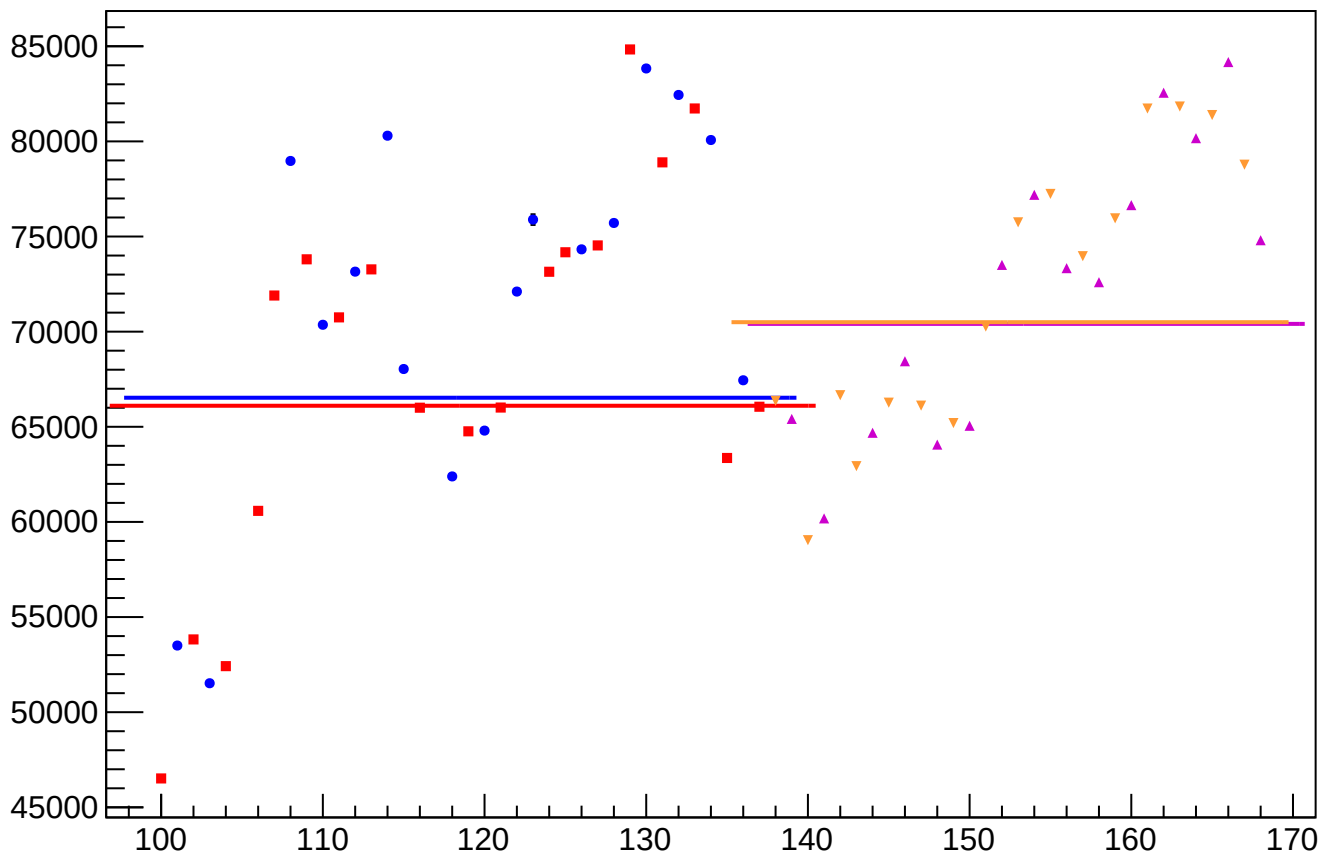
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -29.121 $\pm$ 16.182 χ^2/NDF : 43.3/31

Out: -10.307 $\pm$ 15.883 χ^2/NDF : 37.2/34

All: -19.538 $\pm$ 11.335 χ^2/NDF : 81.1/66

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347 χ^2/NDF : 320887.2/16

Left Out: 70497.762+/-14.536 χ^2/NDF : 240017.4/15

Right Out: 66105.849+/-17.692 χ^2/NDF : 298485.4/18

Left In: 70408.531+/-14.639 χ^2/NDF : 215204.5/14

Left: 70453.462+/-10.314 χ^2/NDF : 455240.7/30

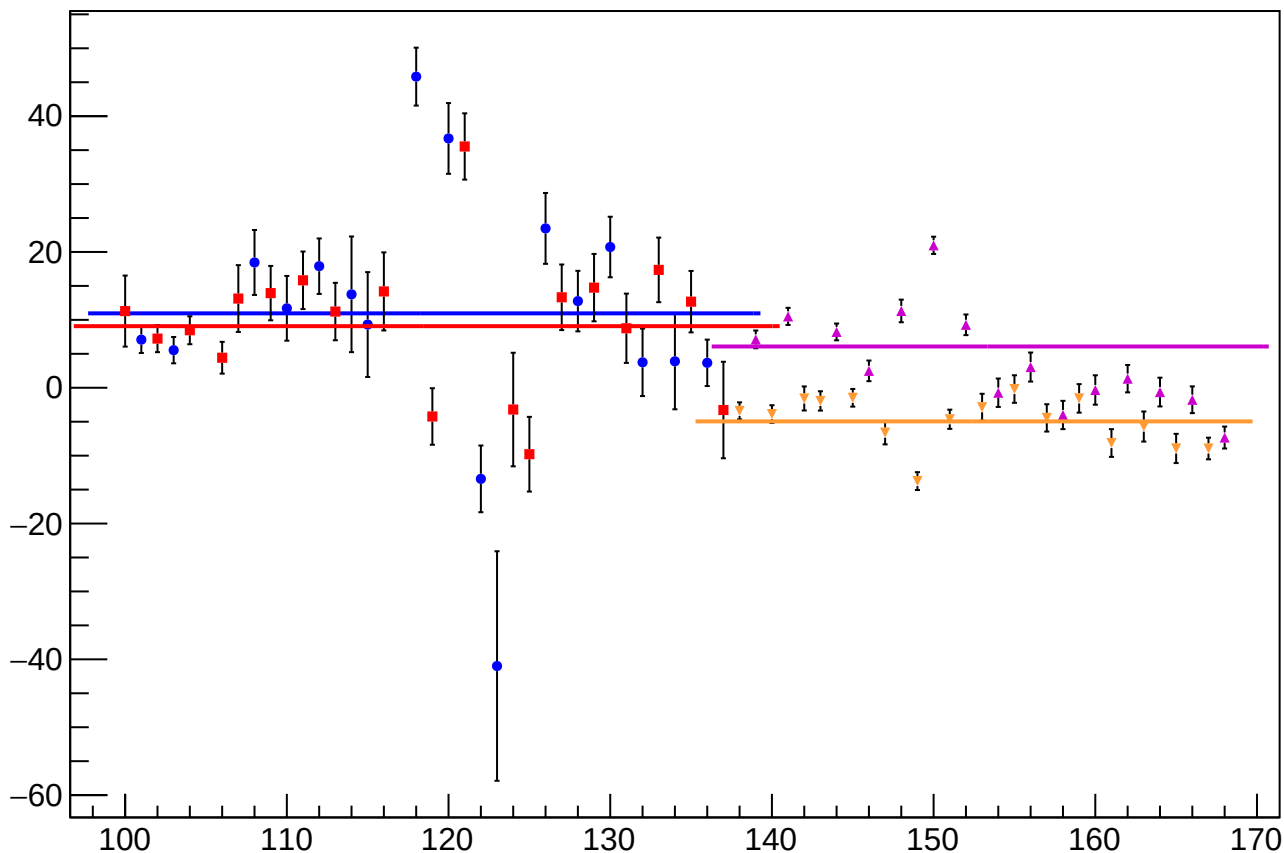
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 68898.750+/-11.443 χ^2/NDF : 563437.5/31

Out: 68727.815+/-11.231 χ^2/NDF : 575294.5/34

All: 68811.688+/-8.015 χ^2/NDF : 1138845.7/69

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 $\pm$ 0.943 χ^2/NDF : 160.9/16

Left Out: -4.955 $\pm$ 0.406 χ^2/NDF : 84.7/15

Right Out: 9.072 $\pm$ 0.866 χ^2/NDF : 73.1/18

Left In: 6.080 $\pm$ 0.418 χ^2/NDF : 318.5/14

Left: 0.397 $\pm$ 0.291 χ^2/NDF : 761.3/30

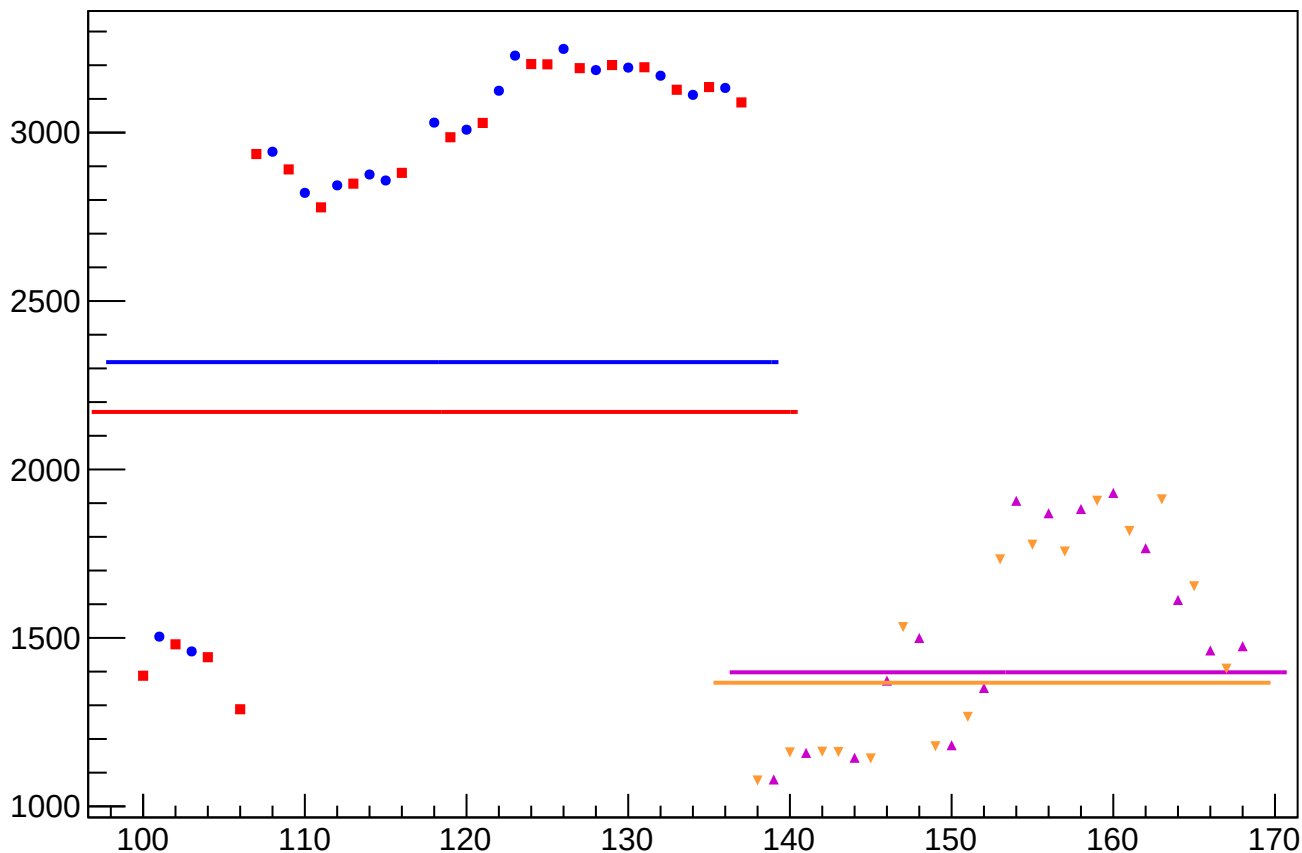
Right: 9.935 $\pm$ 0.638 χ^2/NDF : 236.2/35

In: 6.882 $\pm$ 0.382 χ^2/NDF : 501.8/31

Out: -2.428 $\pm$ 0.368 χ^2/NDF : 372.7/34

All: 2.043 $\pm$ 0.265 χ^2/NDF : 1182.5/66

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624+/-0.667 χ^2/NDF : 1408300.4/16

Left Out: 1366.947+/-0.287 χ^2/NDF : 967536.6/15

Right Out: 2170.786+/-0.613 χ^2/NDF : 1753687.8/18

Left In: 1397.884+/-0.296 χ^2/NDF : 881482.5/14

Left: 1381.951+/-0.206 χ^2/NDF : 1854649.4/30

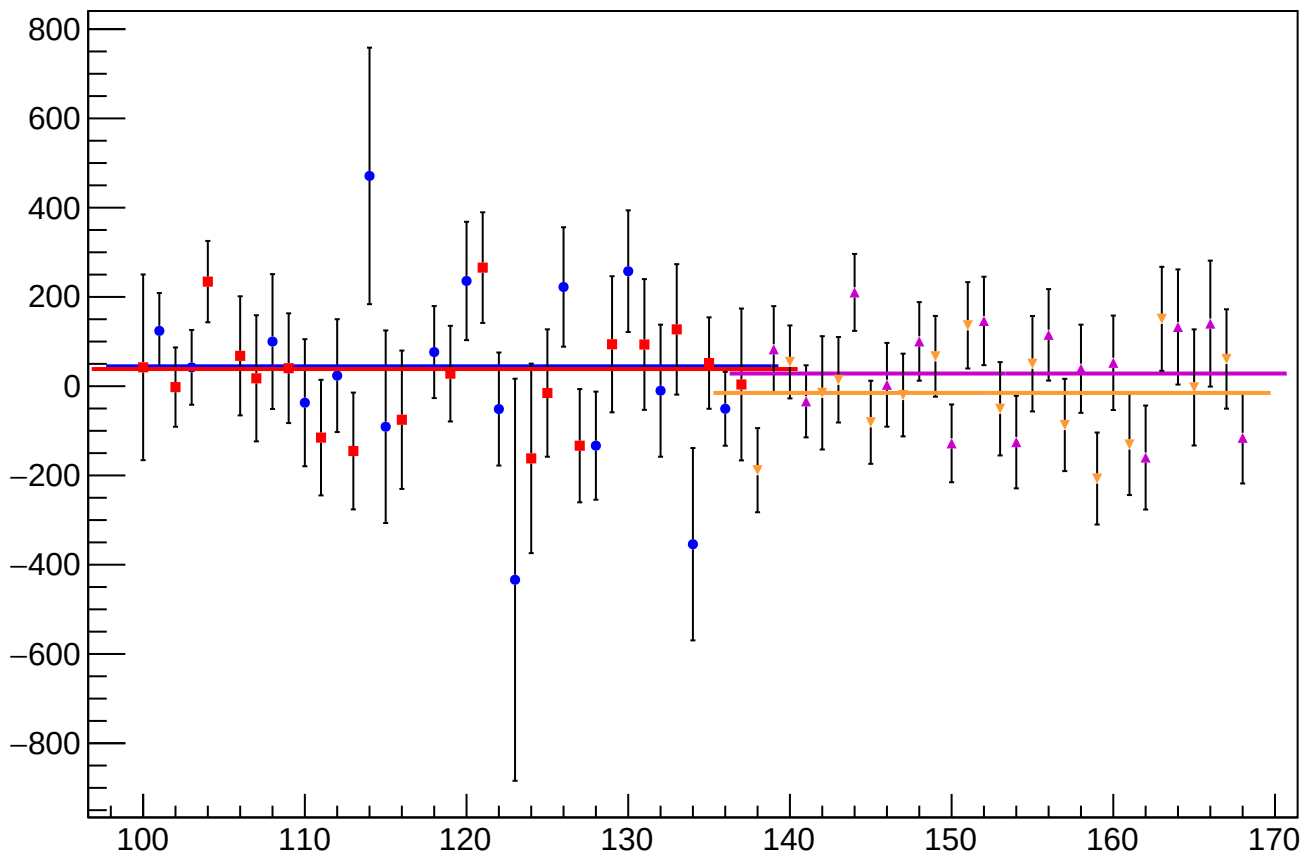
Right: 2238.439+/-0.451 χ^2/NDF : 3188639.4/35

In: 1549.308+/-0.270 χ^2/NDF : 3882284.5/31

Out: 1511.734+/-0.260 χ^2/NDF : 4132916.8/34

All: 1529.779+/-0.187 χ^2/NDF : 8025232.0/66

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2/NDF : 19.1/16

Left Out: -15.065 $\pm$ 25.386 χ^2/NDF : 15.9/15

Right Out: 38.425 $\pm$ 29.435 χ^2/NDF : 15.7/18

Left In: 28.365 $\pm$ 25.564 χ^2/NDF : 19.6/14

Left: 6.499 $\pm$ 18.013 χ^2/NDF : 37.0/30

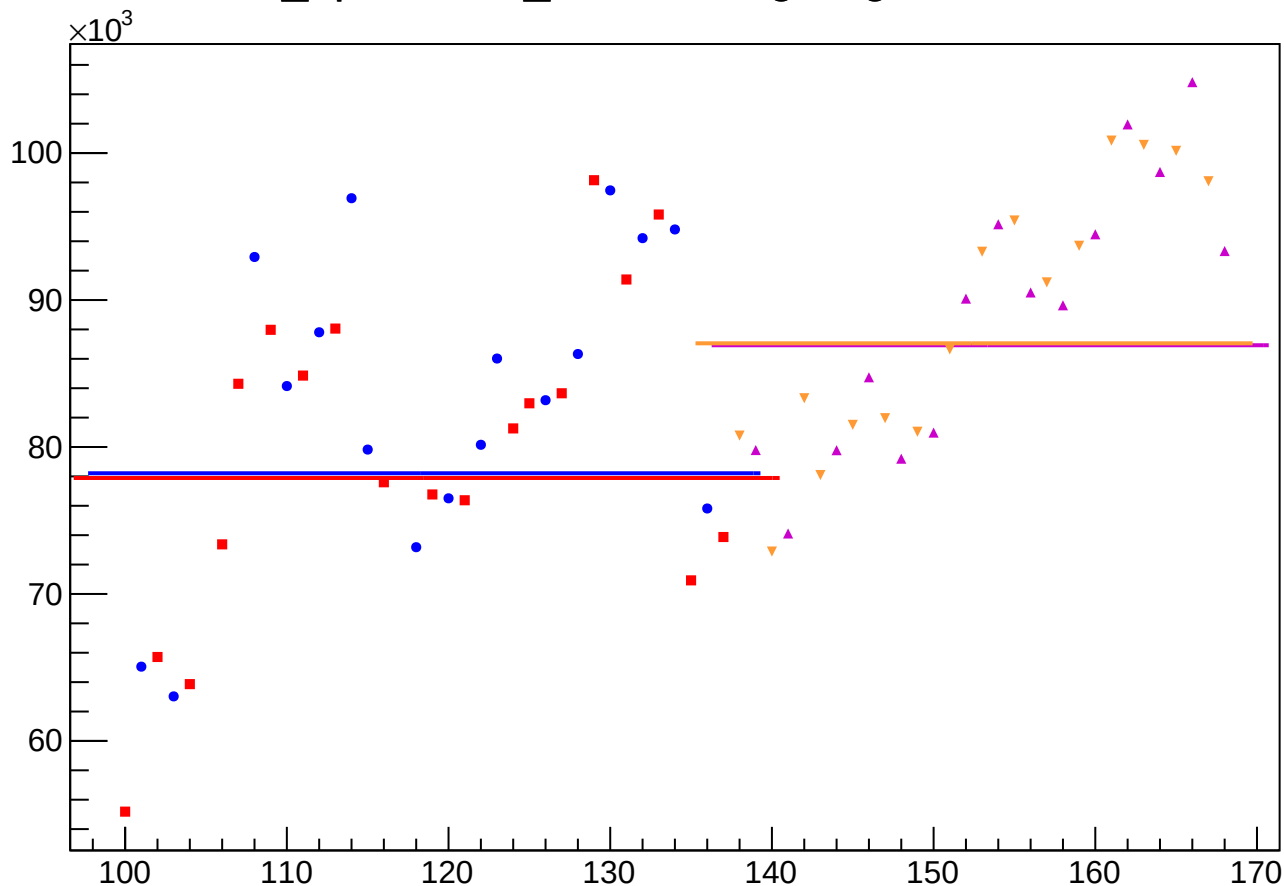
Right: 41.353 $\pm$ 21.157 χ^2/NDF : 34.9/35

In: 35.034 $\pm$ 19.574 χ^2/NDF : 38.8/31

Out: 7.751 $\pm$ 19.224 χ^2/NDF : 33.6/34

All: 21.146 $\pm$ 13.716 χ^2/NDF : 73.4/66

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025 ± 21.519 $\chi^2/\text{NDF}: 251056.7/16$

Left Out: 87054.575 ± 17.951 $\chi^2/\text{NDF}: 237446.0/15$

Right Out: 77891.938 ± 20.814 $\chi^2/\text{NDF}: 246970.2/18$

Left In: 86923.724 ± 18.076 $\chi^2/\text{NDF}: 219477.4/14$

Left: 86989.606 ± 12.737 $\chi^2/\text{NDF}: 456949.7/30$

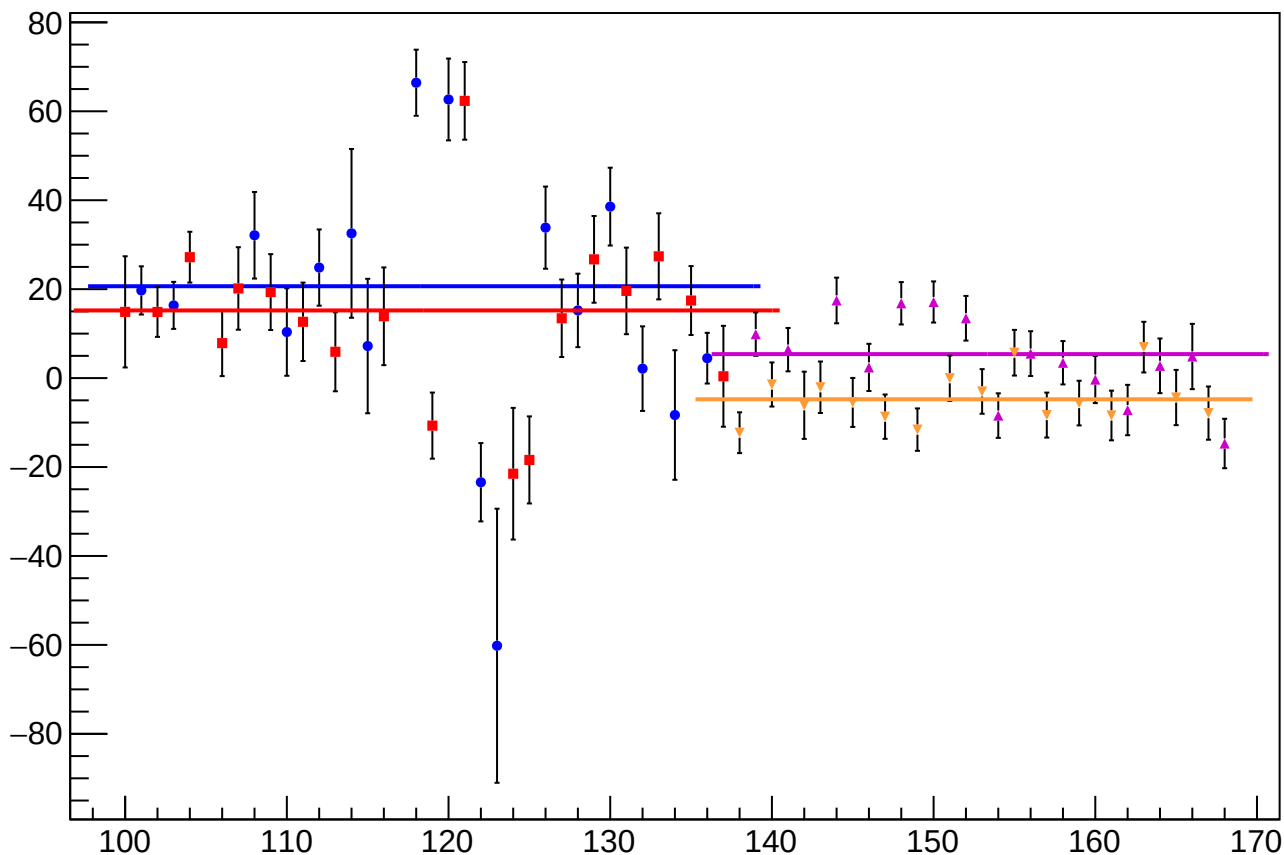
Right: 78047.137 ± 14.960 $\chi^2/\text{NDF}: 498141.9/35$

In: 83319.948 ± 13.841 $\chi^2/\text{NDF}: 566604.1/31$

Out: 83146.292 ± 13.594 $\chi^2/\text{NDF}: 595548.8/34$

All: 83231.554 ± 9.698 $\chi^2/\text{NDF}: 1162233.0/68$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2/NDF : 117.7/16

Left Out: -4.768 $\pm$ 1.332 χ^2/NDF : 16.7/15

Right Out: 15.216 $\pm$ 1.955 χ^2/NDF : 71.3/18

Left In: 5.392 $\pm$ 1.344 χ^2/NDF : 48.6/14

Left: 0.265 $\pm$ 0.946 χ^2/NDF : 94.1/30

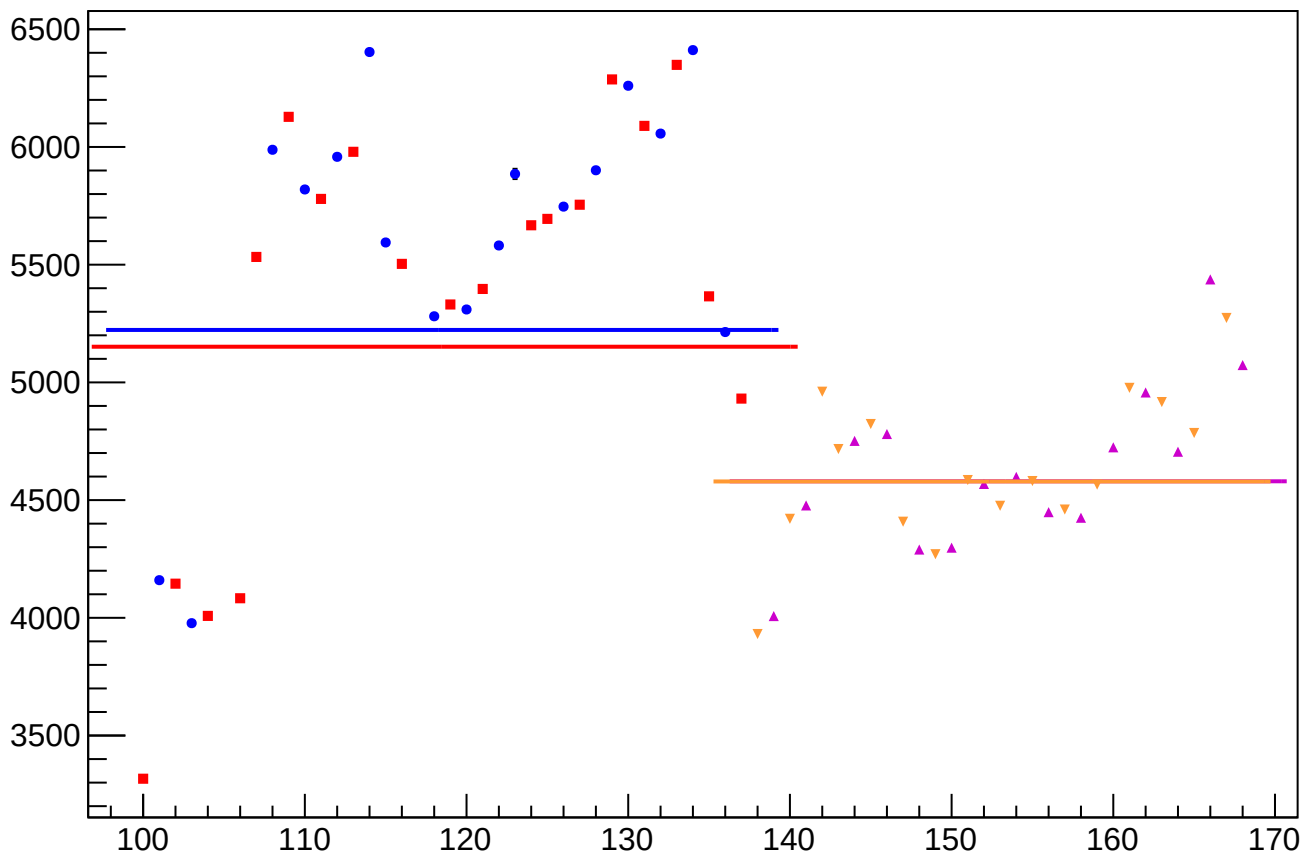
Right: 17.826 $\pm$ 1.410 χ^2/NDF : 192.8/35

In: 10.026 $\pm$ 1.122 χ^2/NDF : 205.5/31

Out: 1.566 $\pm$ 1.100 χ^2/NDF : 159.4/34

All: 5.715 $\pm$ 0.786 χ^2/NDF : 393.9/66

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 $\chi^2/\text{NDF}: 312497.9/16$

Left Out: 4579.198 ± 0.942 $\chi^2/\text{NDF}: 111111.7/15$

Right Out: 5151.532 ± 1.382 $\chi^2/\text{NDF}: 387685.6/18$

Left In: 4579.917 ± 0.950 $\chi^2/\text{NDF}: 106089.5/14$

Left: 4579.554 ± 0.669 $\chi^2/\text{NDF}: 217201.6/30$

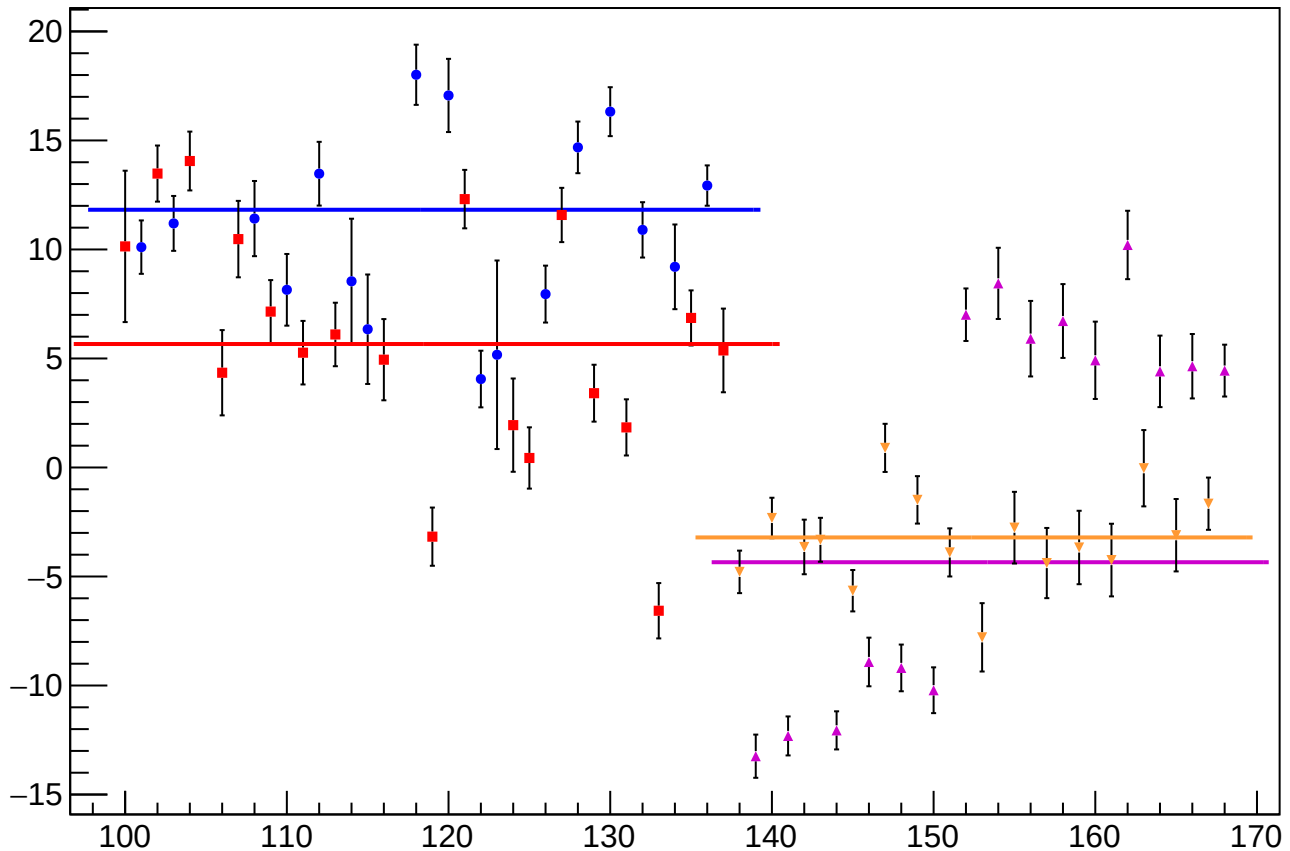
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4775.047 ± 0.793 $\chi^2/\text{NDF}: 557468.5/31$

Out: 4760.599 ± 0.778 $\chi^2/\text{NDF}: 615913.7/34$

All: 4767.685 ± 0.555 $\chi^2/\text{NDF}: 1173551.3/66$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.208 ± 0.306 $\chi^2/\text{NDF}: 41.6/15$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -4.345 ± 0.314 $\chi^2/\text{NDF}: 767.8/14$

Left: -3.762 ± 0.219 $\chi^2/\text{NDF}: 816.1/30$

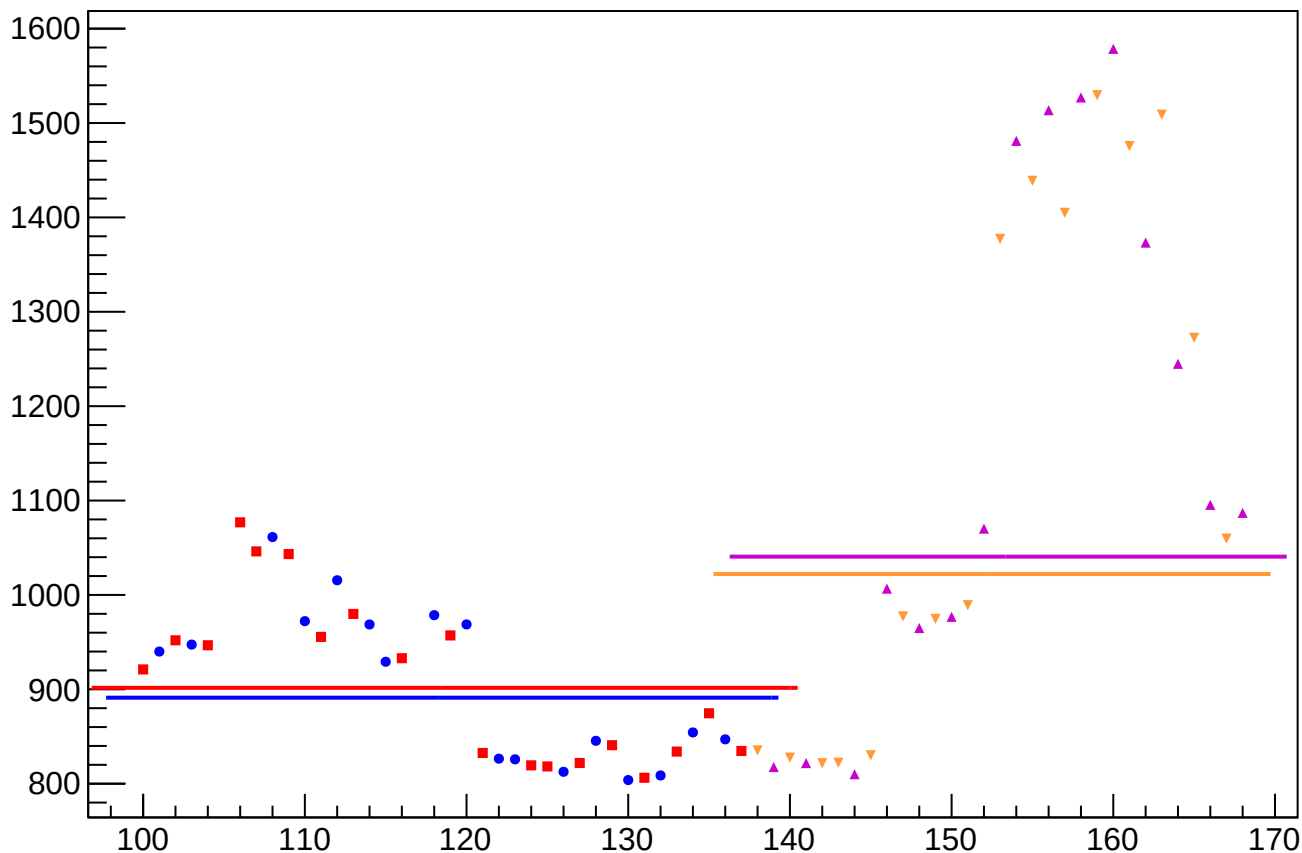
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.981 ± 0.232 $\chi^2/\text{NDF}: 2088.9/31$

Out: 0.778 ± 0.227 $\chi^2/\text{NDF}: 720.0/34$

All: 1.856 ± 0.162 $\chi^2/\text{NDF}: 2855.0/66$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149 $\pm$ 0.244 χ^2 /NDF: 101659.1/16

Left Out: 1022.120 $\pm$ 0.216 χ^2 /NDF:1258364.1/15

Right Out: 901.588 $\pm$ 0.239 χ^2 /NDF: 114590.8/18

Left In: 1040.575 $\pm$ 0.222 χ^2 /NDF:1151215.9/14

Left: 1031.114 $\pm$ 0.155 χ^2 /NDF: 2413130.5/30

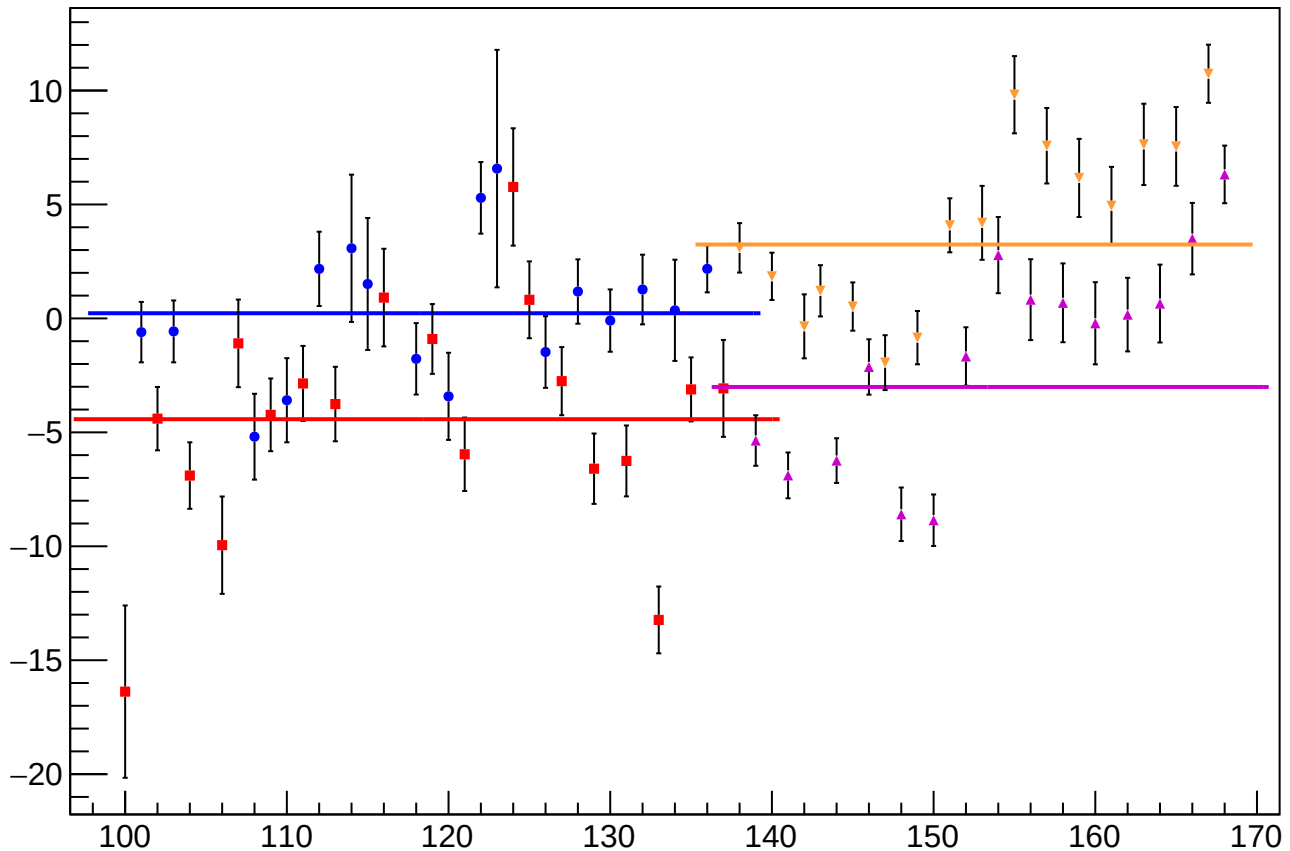
Right: 896.461 $\pm$ 0.171 χ^2 /NDF: 217184.3/35

In: 972.858 $\pm$ 0.164 χ^2 /NDF:1458632.8/31

Out: 967.956 $\pm$ 0.160 χ^2 /NDF:1512611.7/34

All: 970.354 $\pm$ 0.115 χ^2 /NDF: 2971701.2/66

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 $\chi^2/\text{NDF}: 38.5/16$

Left Out: 3.243 ± 0.331 $\chi^2/\text{NDF}: 122.4/15$

Right Out: -4.423 ± 0.387 $\chi^2/\text{NDF}: 103.3/18$

Left In: -3.009 ± 0.339 $\chi^2/\text{NDF}: 185.0/14$

Left: 0.191 ± 0.237 $\chi^2/\text{NDF}: 481.7/30$

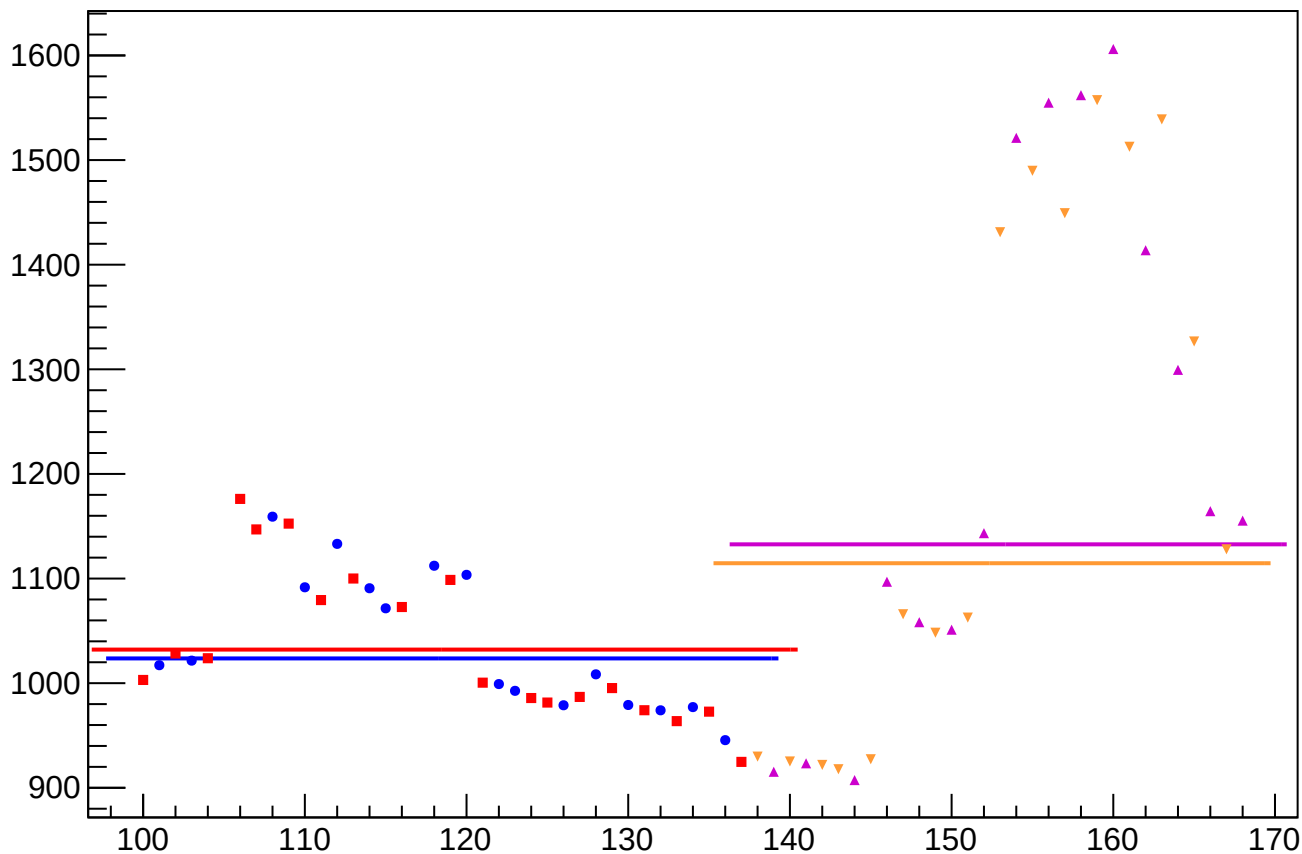
Right: -2.147 ± 0.276 $\chi^2/\text{NDF}: 212.6/35$

In: -1.638 ± 0.257 $\chi^2/\text{NDF}: 262.2/31$

Out: 0.004 ± 0.251 $\chi^2/\text{NDF}: 452.6/34$

All: -0.798 ± 0.180 $\chi^2/\text{NDF}: 735.7/66$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1114.645 $\pm$ 0.234 χ^2 /NDF: 941179.4/15

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1132.705 $\pm$ 0.240 χ^2 /NDF: 853235.1/14

Left: 1123.460 $\pm$ 0.167 χ^2 /NDF: 1797324.4/30

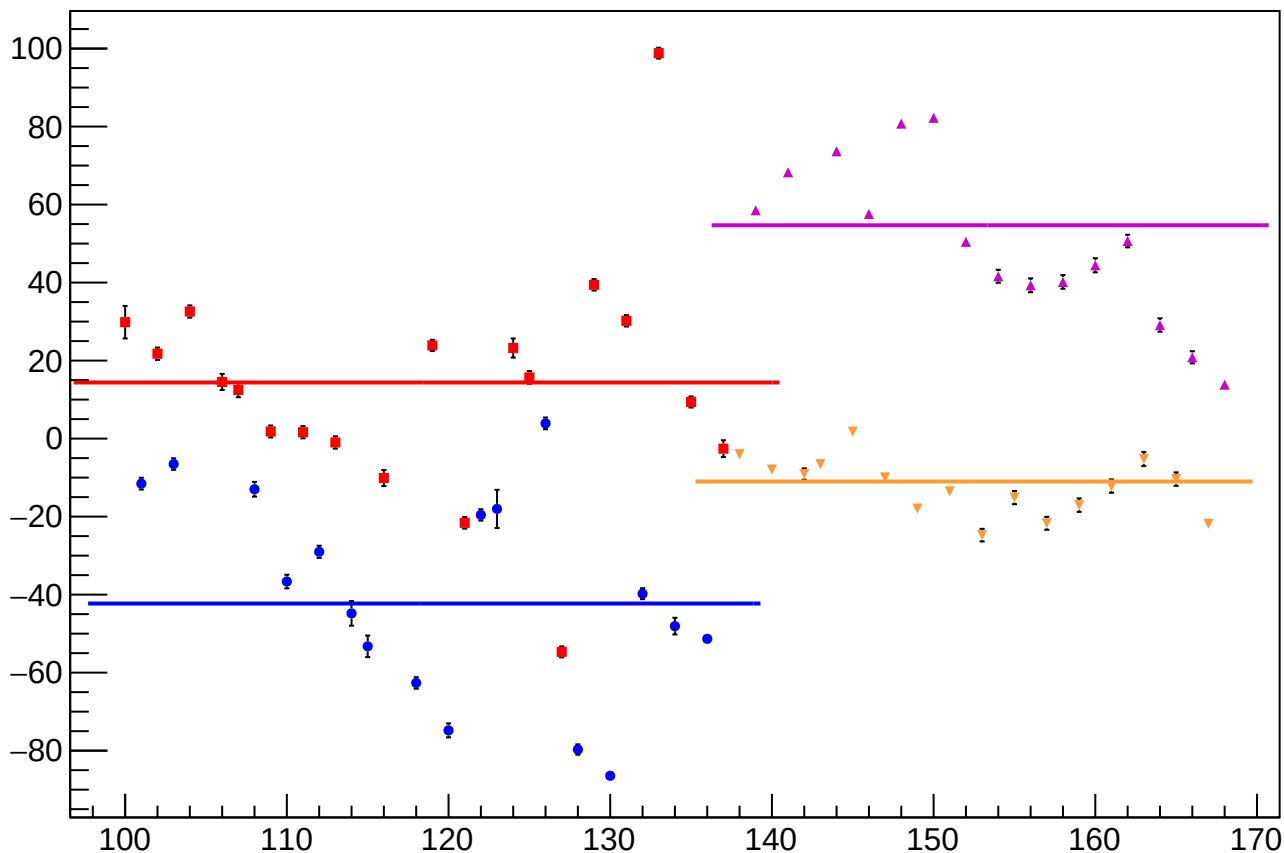
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1086.490 $\pm$ 0.182 χ^2 /NDF: 993449.5/31

Out: 1079.772 $\pm$ 0.178 χ^2 /NDF: 1053184.6/34

All: 1083.055 $\pm$ 0.127 χ^2 /NDF: 2047332.2/66

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 +/- 0.387 χ^2/NDF : 5126.8/16

Left Out: -10.989 +/- 0.338 χ^2/NDF : 453.1/15

Right Out: 14.393 +/- 0.378 χ^2/NDF : 7669.8/18

Left In: 54.692 +/- 0.347 χ^2/NDF : 3477.4/14

Left: 20.973 +/- 0.242 χ^2/NDF : 22351.2/30

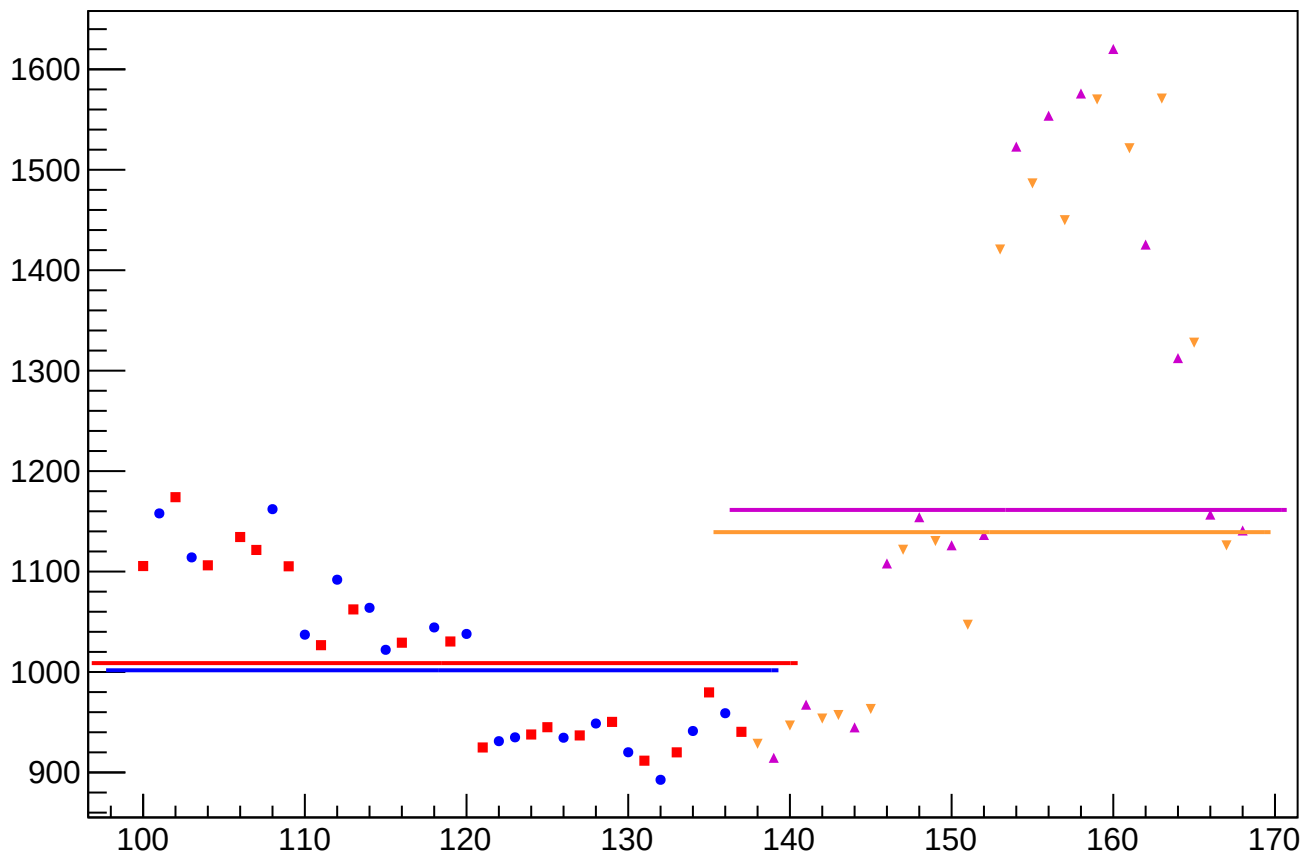
Right: -13.301 +/- 0.271 χ^2/NDF : 23754.3/35

In: 11.527 +/- 0.258 χ^2/NDF : 43418.6/31

Out: 0.258 +/- 0.252 χ^2/NDF : 10627.9/34

All: 5.752 +/- 0.180 χ^2/NDF : 55022.0/66

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1139.237 $\pm$ 0.239 χ^2 /NDF: 861199.8/15

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1161.357 $\pm$ 0.245 χ^2 /NDF: 762733.3/14

Left: 1150.001 $\pm$ 0.171 χ^2 /NDF: 1628111.7/30

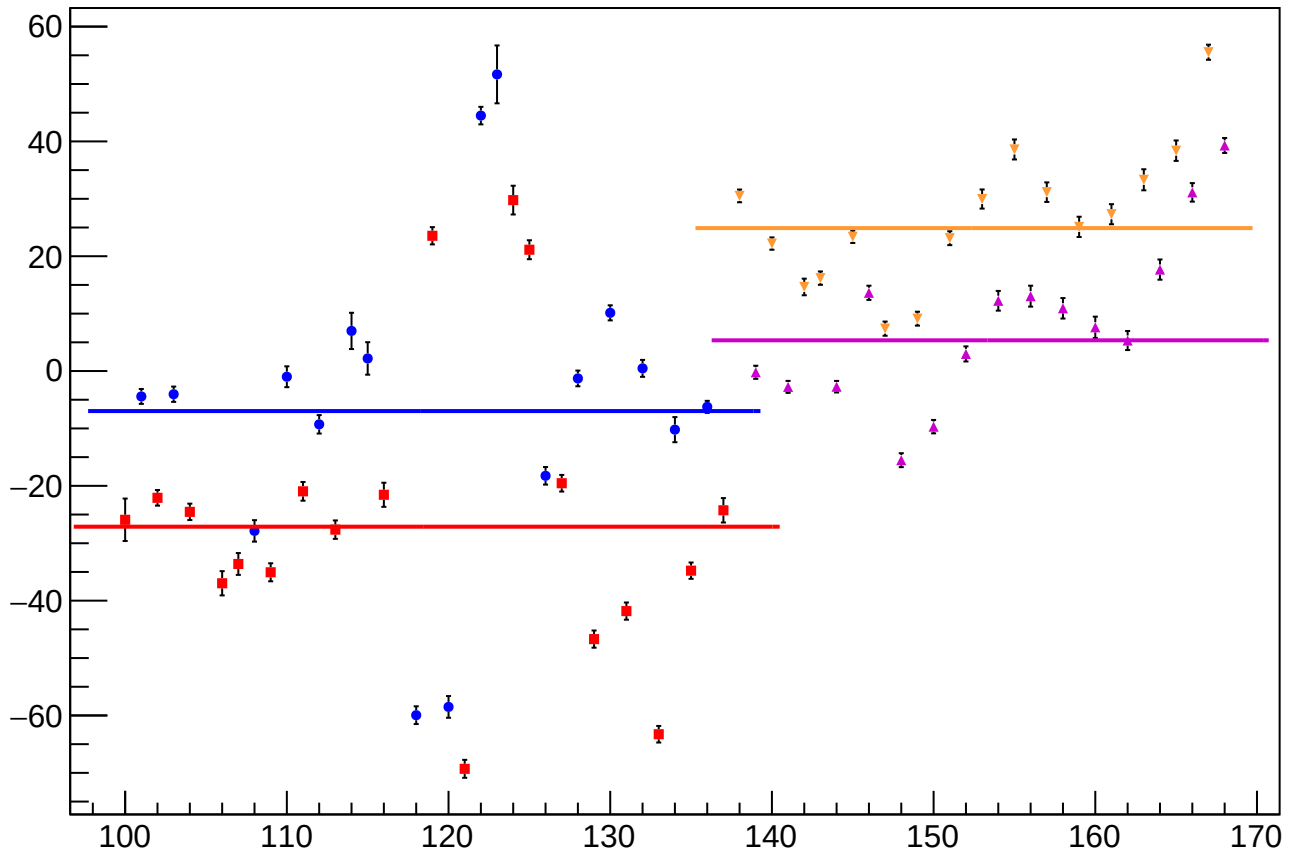
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1090.291 $\pm$ 0.183 χ^2 /NDF: 1046951.0/31

Out: 1081.462 $\pm$ 0.178 χ^2 /NDF: 1088754.8/34

All: 1085.766 $\pm$ 0.128 χ^2 /NDF: 2136903.5/66

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 24.898 ± 0.340 χ^2/NDF : 1218.5/15

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 5.351 ± 0.349 χ^2/NDF : 1683.1/14

Left: 15.364 ± 0.244 χ^2/NDF : 4510.0/30

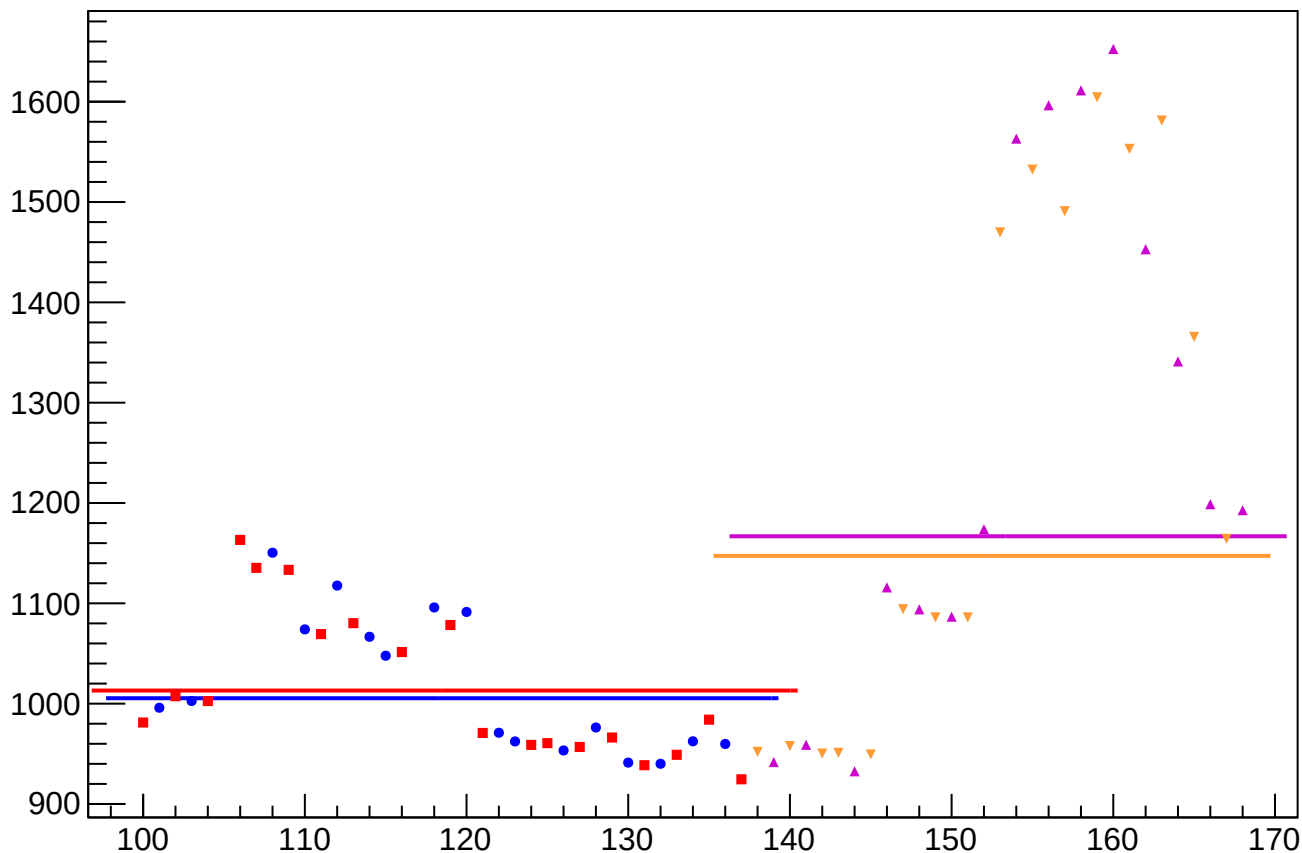
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: -0.159 ± 0.259 χ^2/NDF : 5878.1/31

Out: 1.714 ± 0.253 χ^2/NDF : 15909.2/34

All: 0.800 ± 0.181 χ^2/NDF : 21814.0/66

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409+/-0.274 χ^2/NDF : 54586.0/16

Left Out: 1147.303+/-0.241 χ^2/NDF : 936451.8/15

Right Out: 1013.064+/-0.268 χ^2/NDF : 63265.7/18

Left In: 1166.838+/-0.247 χ^2/NDF : 845197.3/14

Left: 1156.831+/-0.172 χ^2/NDF : 1784861.7/30

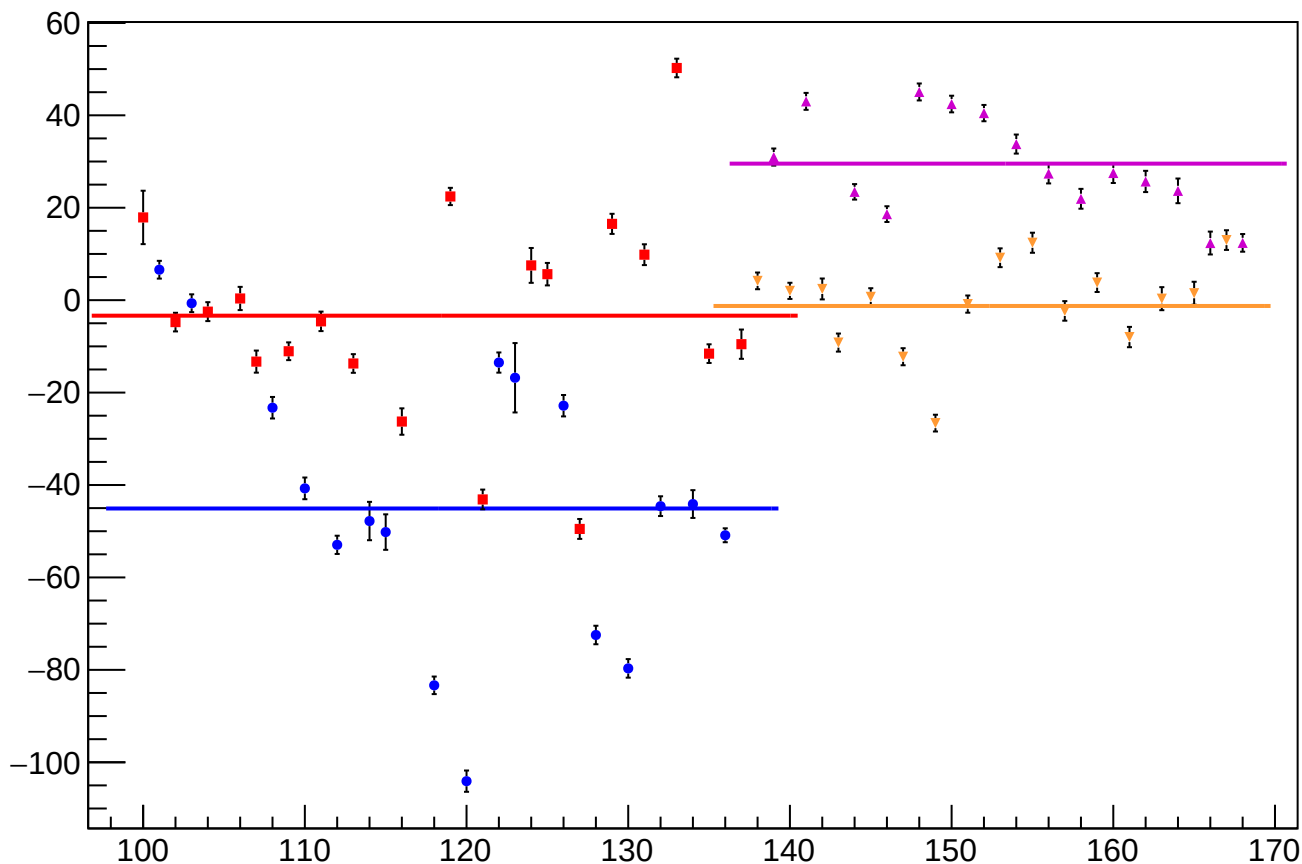
Right: 1009.320+/-0.192 χ^2/NDF : 118249.5/35

In: 1094.669+/-0.183 χ^2/NDF : 1091253.6/31

Out: 1087.469+/-0.179 χ^2/NDF : 1138355.7/34

All: 1090.985+/-0.128 χ^2/NDF : 2230397.5/60

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -1.257 ± 0.504 χ^2/NDF : 391.6/15

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 29.542 ± 0.508 χ^2/NDF : 425.2/14

Left: 14.015 ± 0.358 χ^2/NDF : 2666.4/30

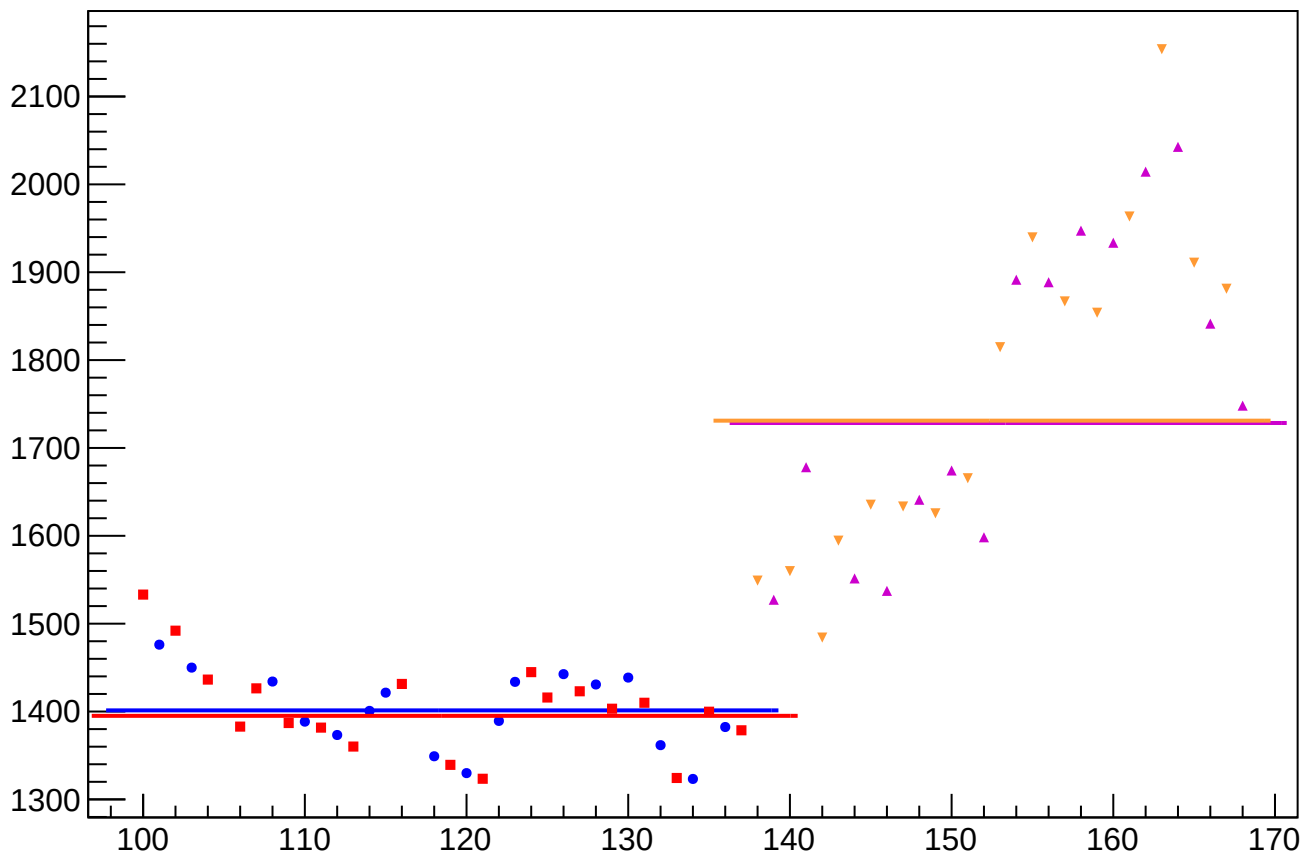
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -5.549 ± 0.370 χ^2/NDF : 13791.2/31

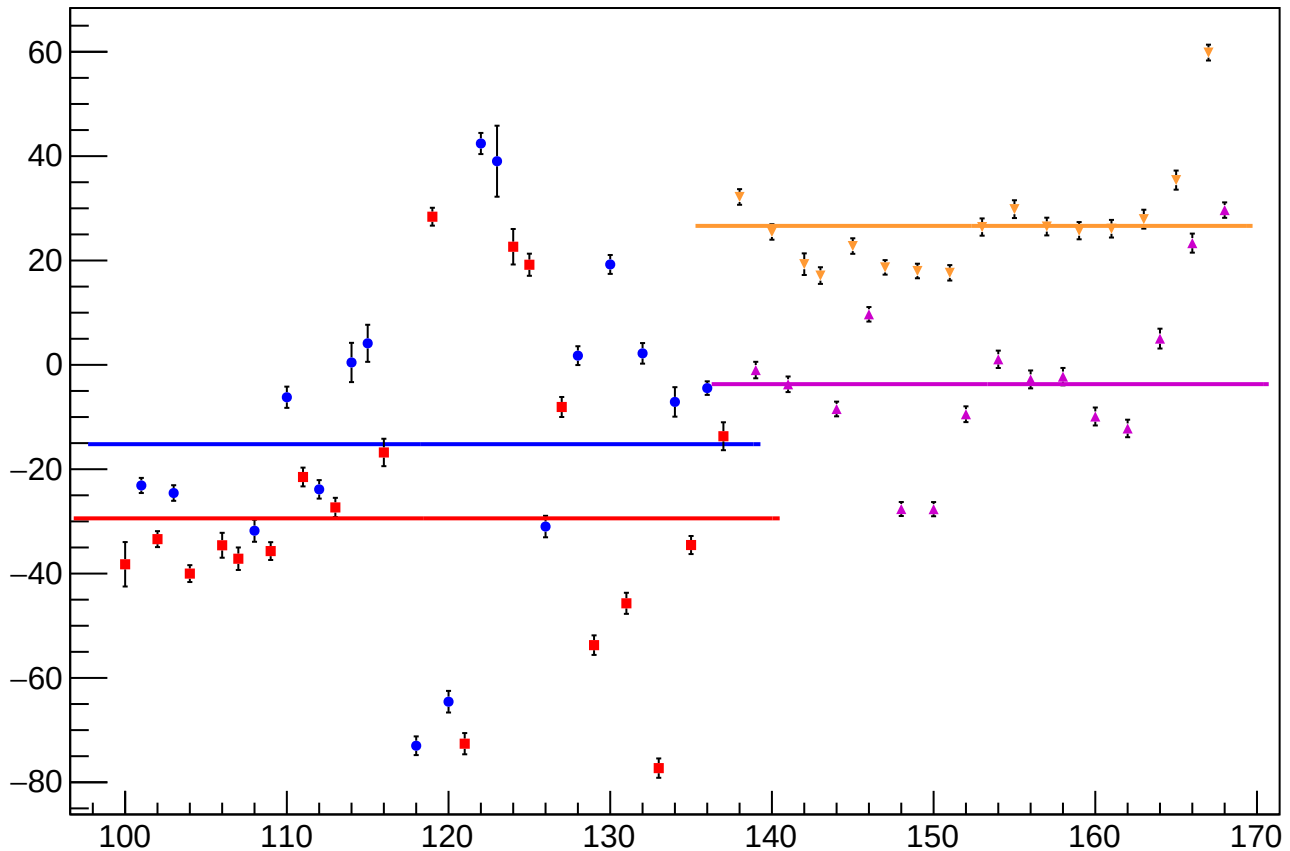
Out: -2.271 ± 0.363 χ^2/NDF : 2405.7/34

All: -3.877 ± 0.259 χ^2/NDF : 16236.9/66

diff_bpm0i02X_rms vs Slug, Sign Corrected



diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 $\chi^2/\text{NDF}: 3362.5/16$

Left Out: 26.635 ± 0.399 $\chi^2/\text{NDF}: 683.5/15$

Right Out: -29.418 ± 0.456 $\chi^2/\text{NDF}: 3544.8/18$

Left In: -3.696 ± 0.402 $\chi^2/\text{NDF}: 1546.1/14$

Left: 11.568 ± 0.283 $\chi^2/\text{NDF}: 5095.0/30$

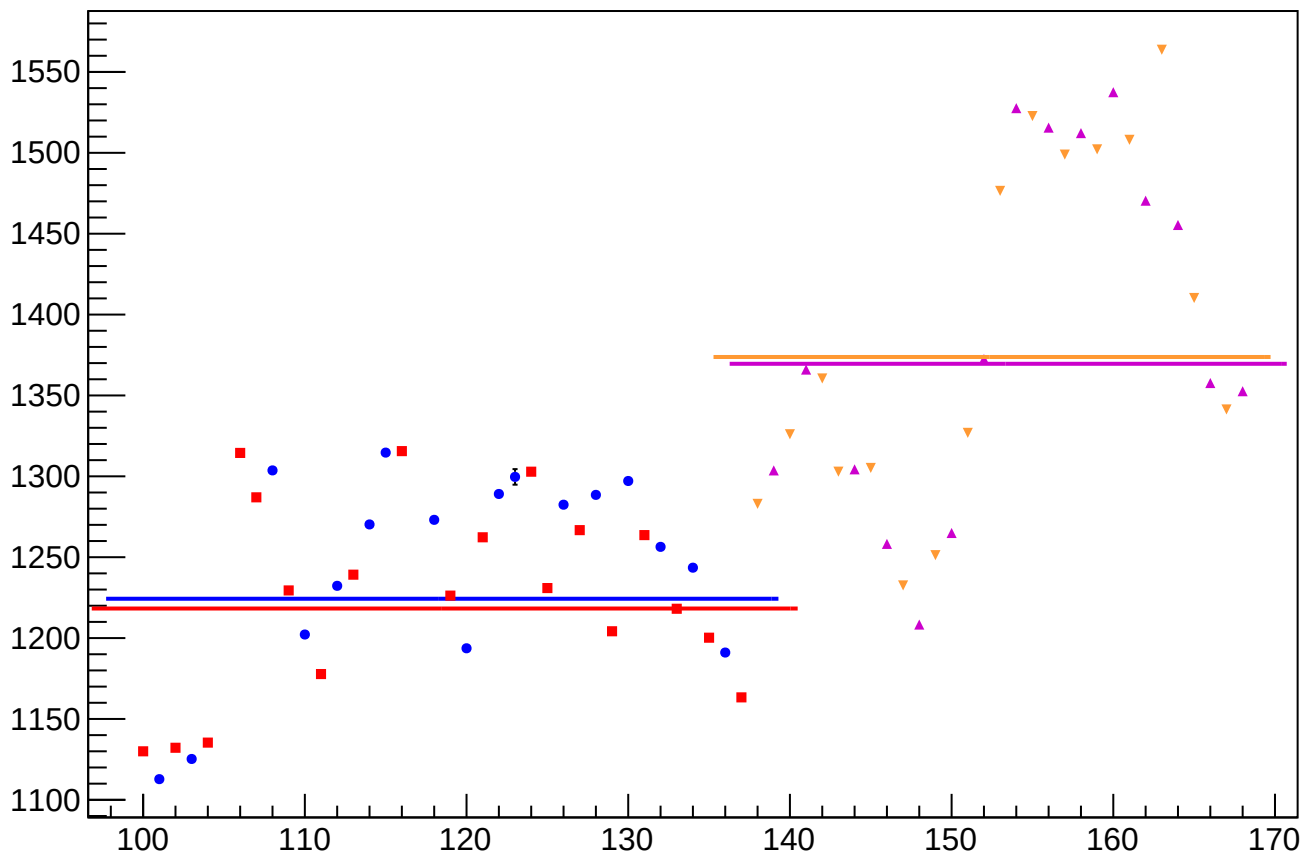
Right: -22.553 ± 0.328 $\chi^2/\text{NDF}: 7376.3/35$

In: -8.531 ± 0.306 $\chi^2/\text{NDF}: 5253.0/31$

Out: 2.316 ± 0.300 $\chi^2/\text{NDF}: 12775.4/34$

All: -3.008 ± 0.214 $\chi^2/\text{NDF}: 18667.9/66$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1373.781+/-0.282 χ^2/NDF : 137921.9/15

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1369.571+/-0.284 χ^2/NDF : 139165.7/14

Left: 1371.689+/-0.200 χ^2/NDF : 277198.0/30

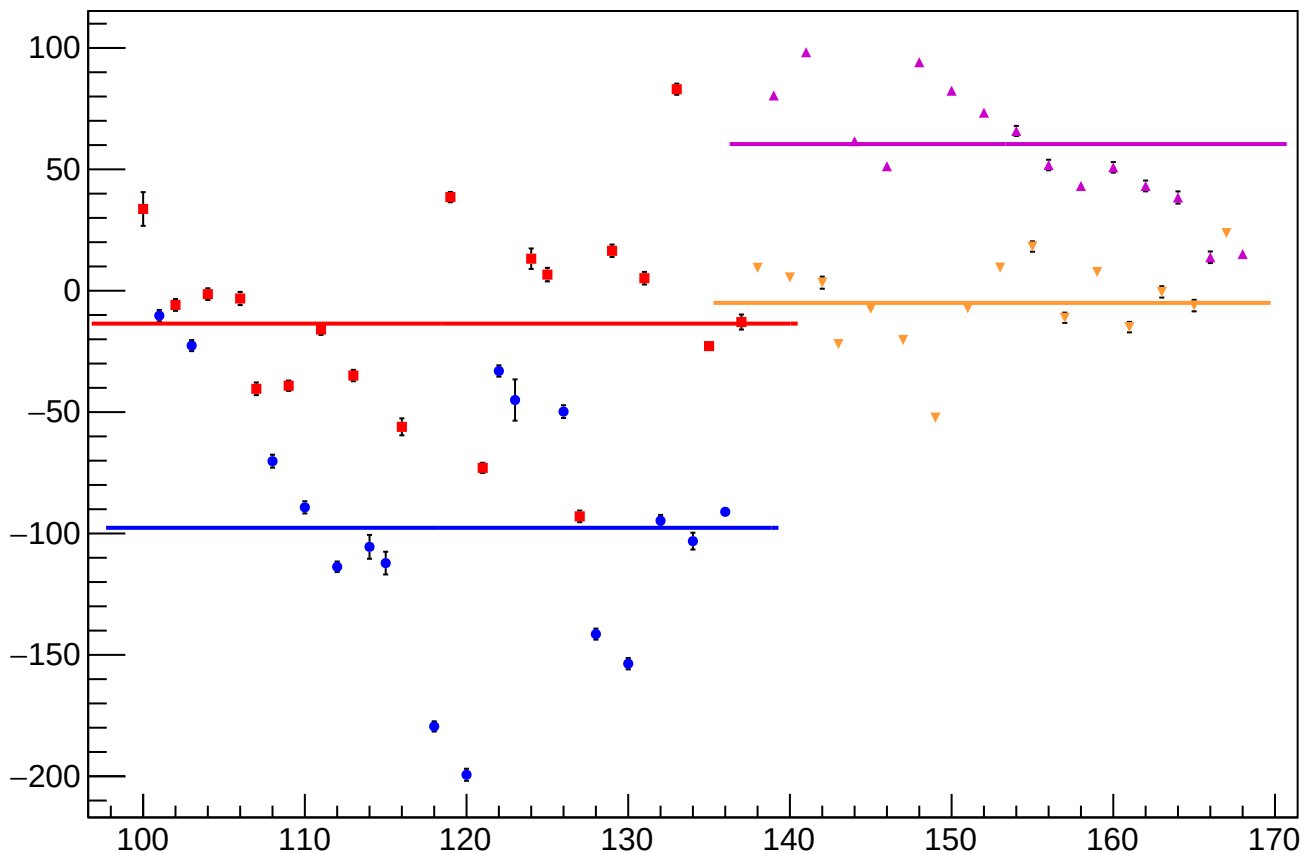
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1308.531+/-0.216 χ^2/NDF : 287698.2/31

Out: 1306.312+/-0.212 χ^2/NDF : 297060.0/34

All: 1307.401+/-0.152 χ^2/NDF : 584811.8/66

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 $\pm$ 0.601 χ^2/NDF : 7936.6/16

Left Out: -5.006 $\pm$ 0.503 χ^2/NDF :1369.5/15

Right Out: -13.538 $\pm$ 0.579 χ^2/NDF : 5128.2/18

Left In: 60.425 $\pm$ 0.509 χ^2/NDF :2322.3/14

Left: 27.312 $\pm$ 0.358 χ^2/NDF : 12061.2/30

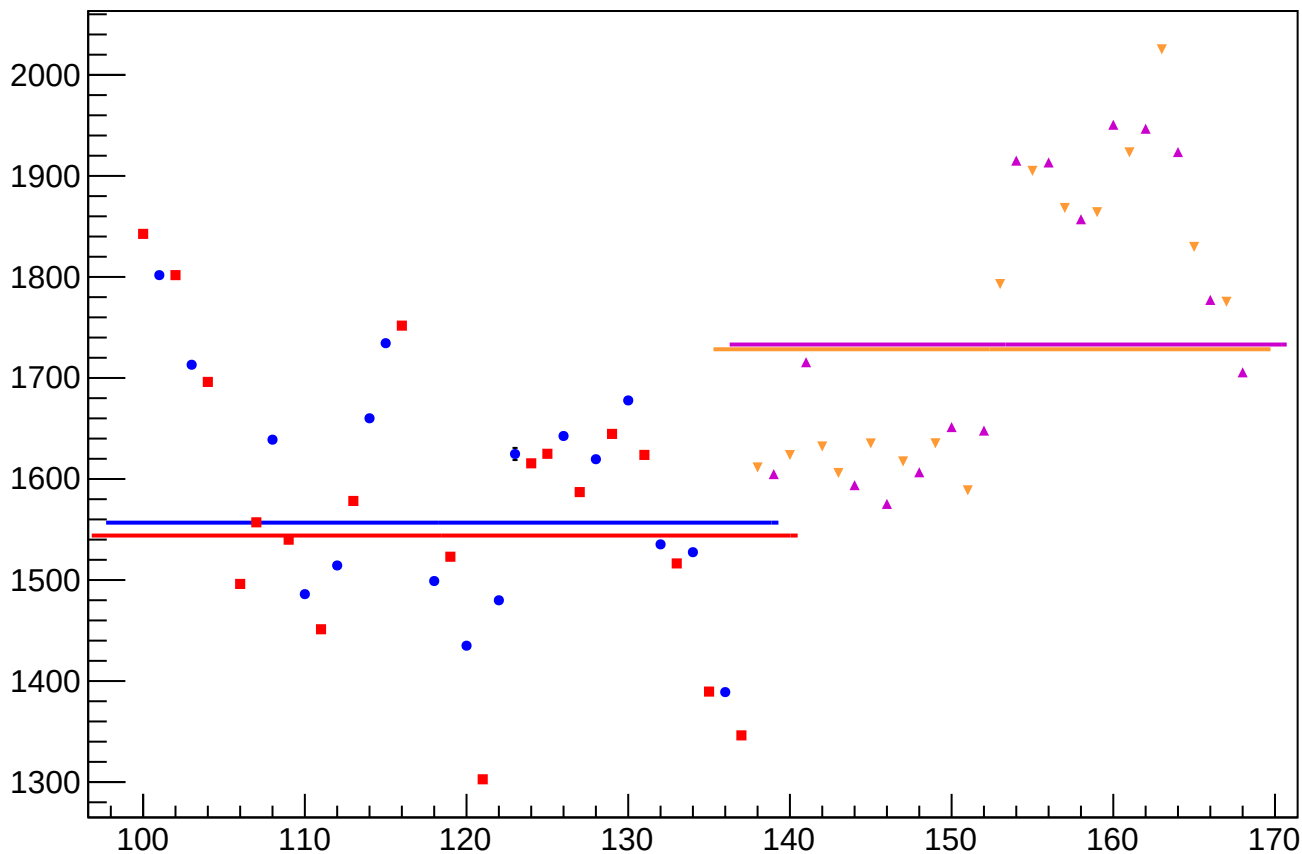
Right: -54.035 $\pm$ 0.417 χ^2/NDF : 23213.1/35

In: -5.532 $\pm$ 0.388 χ^2/NDF :50535.3/31

Out: -8.670 $\pm$ 0.380 χ^2/NDF :6621.4/34

All: -7.137 $\pm$ 0.272 χ^2/NDF : 57190.1/66

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1728.414 $\pm$ 0.355 χ^2 /NDF:141434.6/15

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1733.109 $\pm$ 0.360 χ^2 /NDF:144304.2/14

Left: 1730.733 $\pm$ 0.253 χ^2 /NDF: 285825.0/30

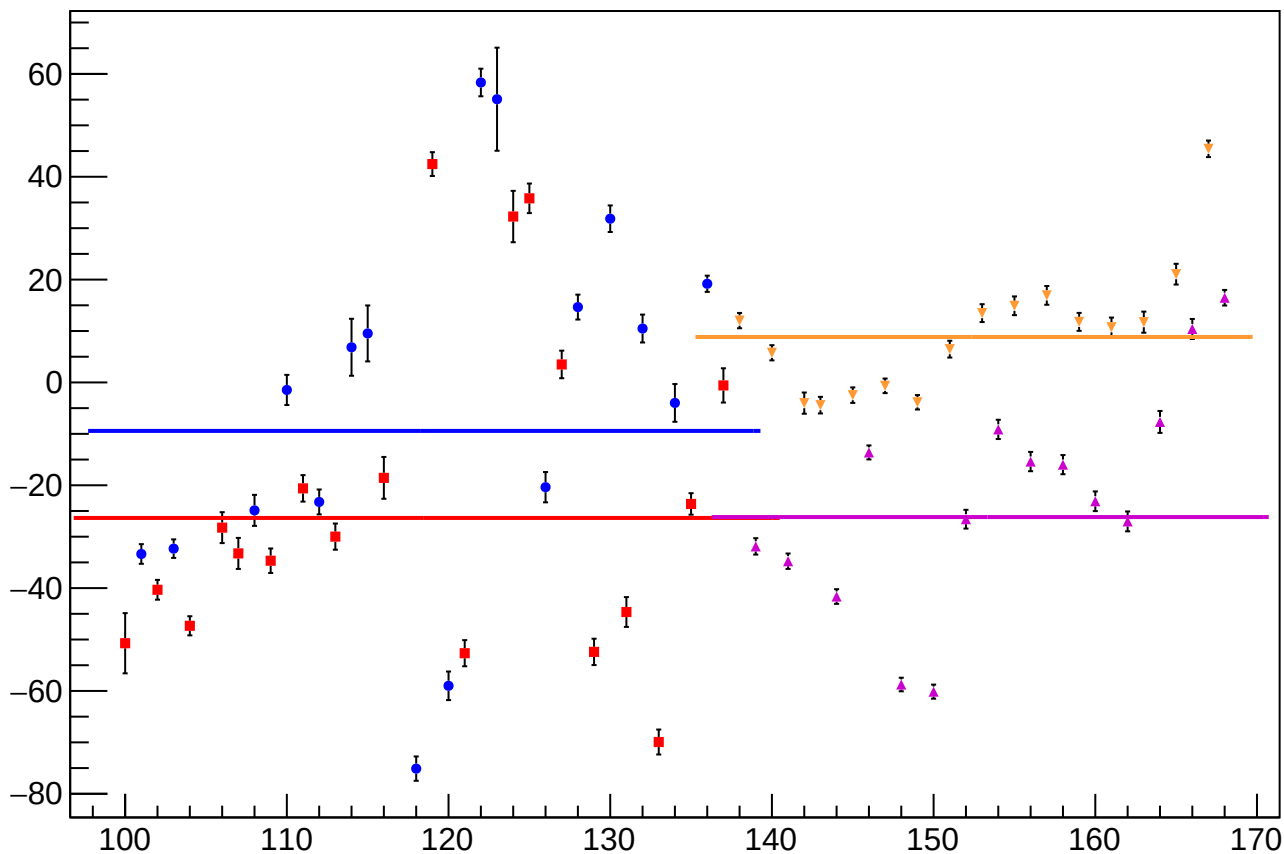
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1659.546 $\pm$ 0.275 χ^2 /NDF:326053.2/31

Out: 1649.231 $\pm$ 0.268 χ^2 /NDF:357501.8/34

All: 1654.271 $\pm$ 0.192 χ^2 /NDF: 684276.4/66

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 $\chi^2/\text{NDF}: 2924.1/16$

Left Out: 8.840 ± 0.417 $\chi^2/\text{NDF}: 898.2/15$

Right Out: -26.354 ± 0.603 $\chi^2/\text{NDF}: 2472.1/18$

Left In: -26.181 ± 0.423 $\chi^2/\text{NDF}: 2839.6/14$

Left: -8.405 ± 0.297 $\chi^2/\text{NDF}: 7217.5/30$

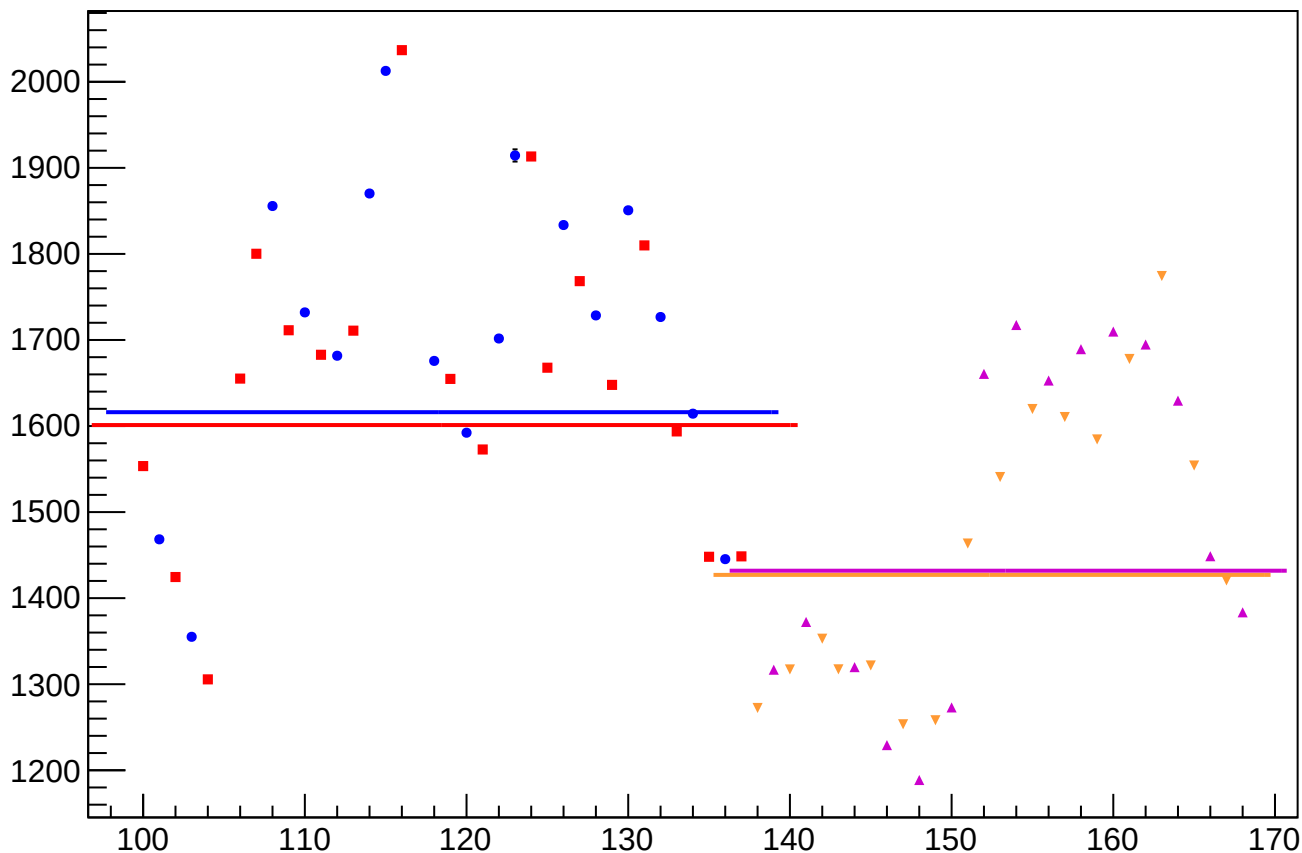
Right: -18.216 ± 0.434 $\chi^2/\text{NDF}: 5775.3/35$

In: -20.935 ± 0.351 $\chi^2/\text{NDF}: 6255.0/31$

Out: -2.537 ± 0.343 $\chi^2/\text{NDF}: 5677.1/34$

All: -11.528 ± 0.245 $\chi^2/\text{NDF}: 13340.6/66$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1427.019+/-0.295 χ^2/NDF : 282521.8/15

Right Out: 1601.134+/-0.426 χ^2/NDF : 153651.5/18

Left In: 1431.879+/-0.299 χ^2/NDF : 406953.1/14

Left: 1429.412+/-0.210 χ^2/NDF : 689608.9/30

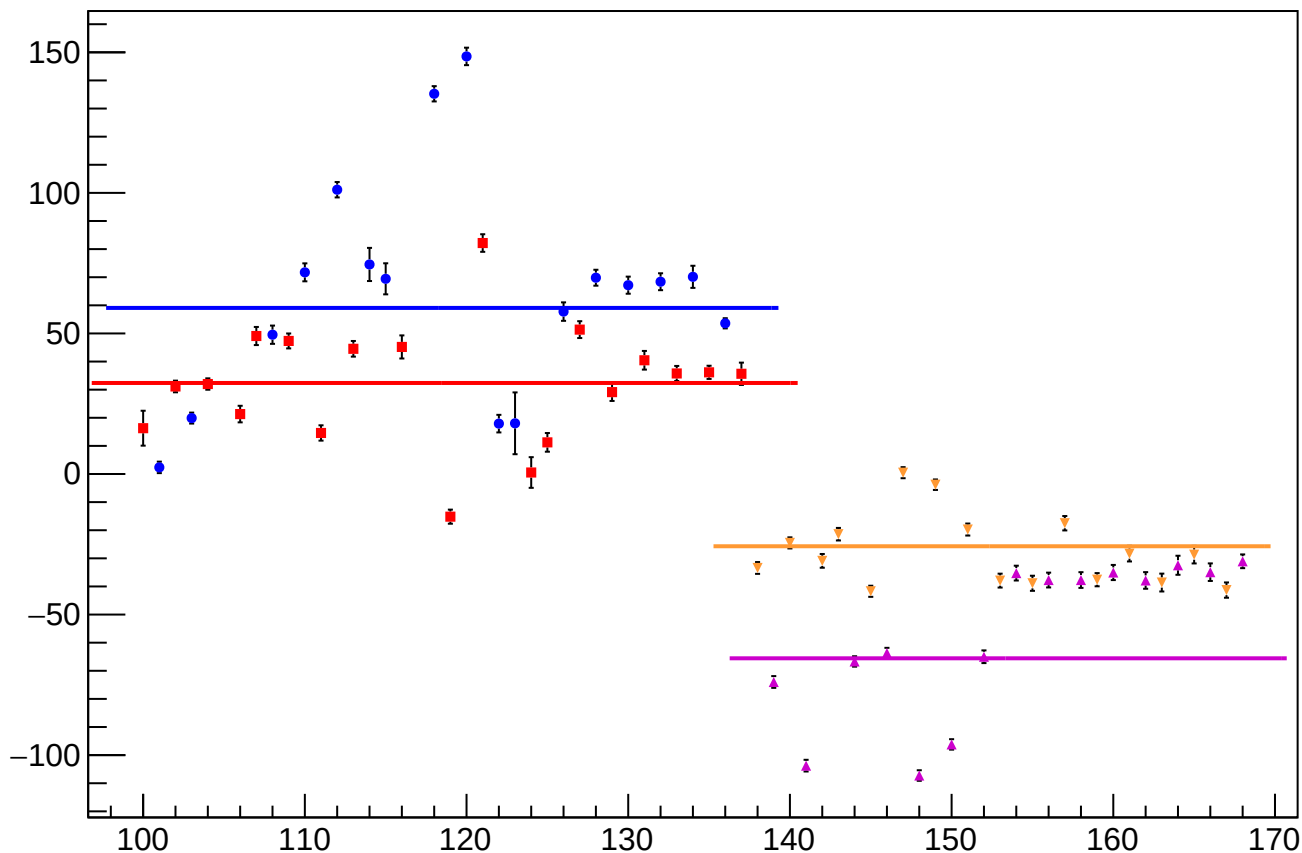
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1489.562+/-0.248 χ^2/NDF : 675337.7/31

Out: 1483.301+/-0.242 χ^2/NDF : 549101.0/34

All: 1486.361+/-0.173 χ^2/NDF : 1224765.0/66

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.702 ± 0.580 χ^2/NDF : 544.9/15

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -65.559 ± 0.594 χ^2/NDF : 2070.6/14

Left: -45.163 ± 0.415 χ^2/NDF : 4920.6/30

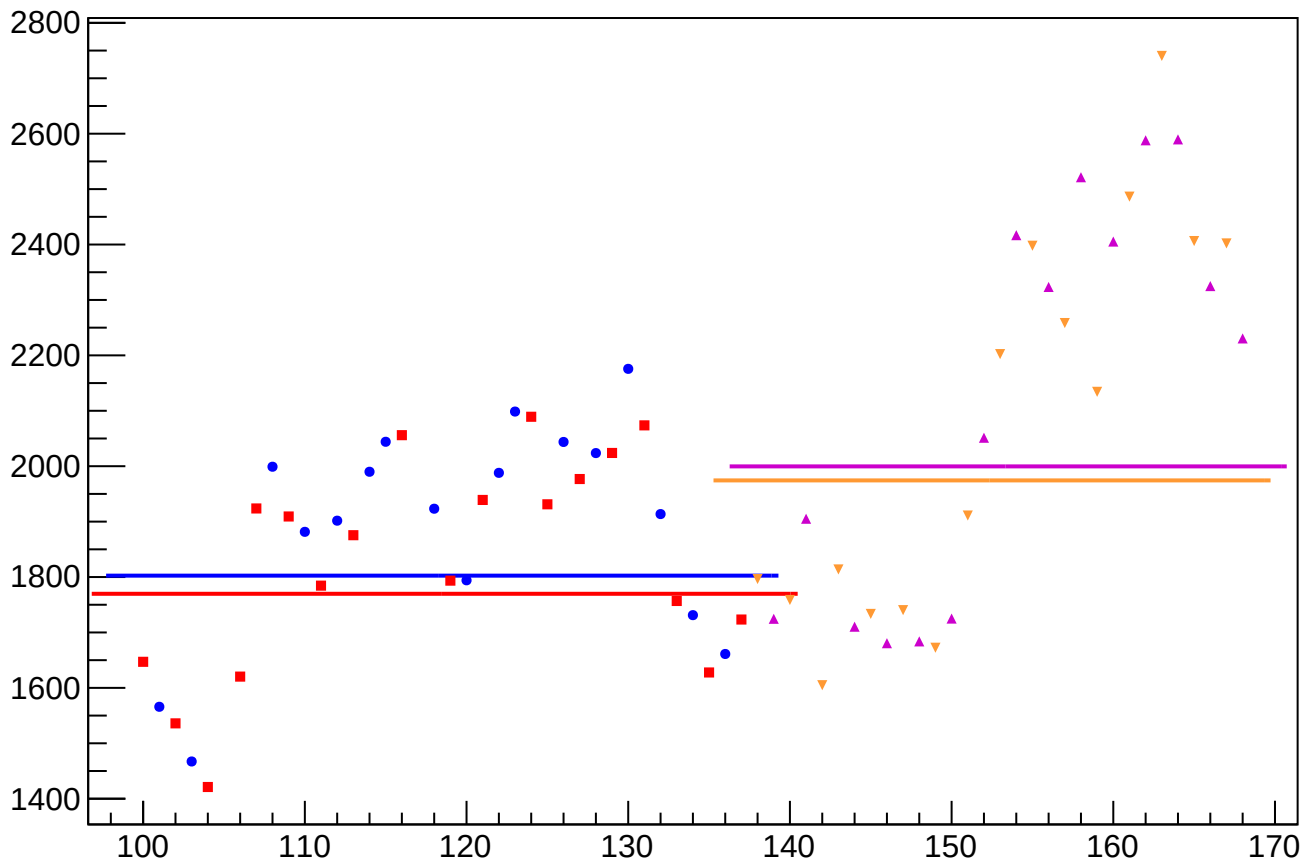
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -13.349 ± 0.453 χ^2/NDF : 23816.7/31

Out: -0.667 ± 0.438 χ^2/NDF : 5757.8/34

All: -6.792 ± 0.315 χ^2/NDF : 29980.2/66

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1974.375+/-0.410 χ^2/NDF : 578295.2/15

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 1999.666+/-0.420 χ^2/NDF : 622845.4/14

Left: 1986.724+/-0.293 χ^2/NDF : 1202996.7/30

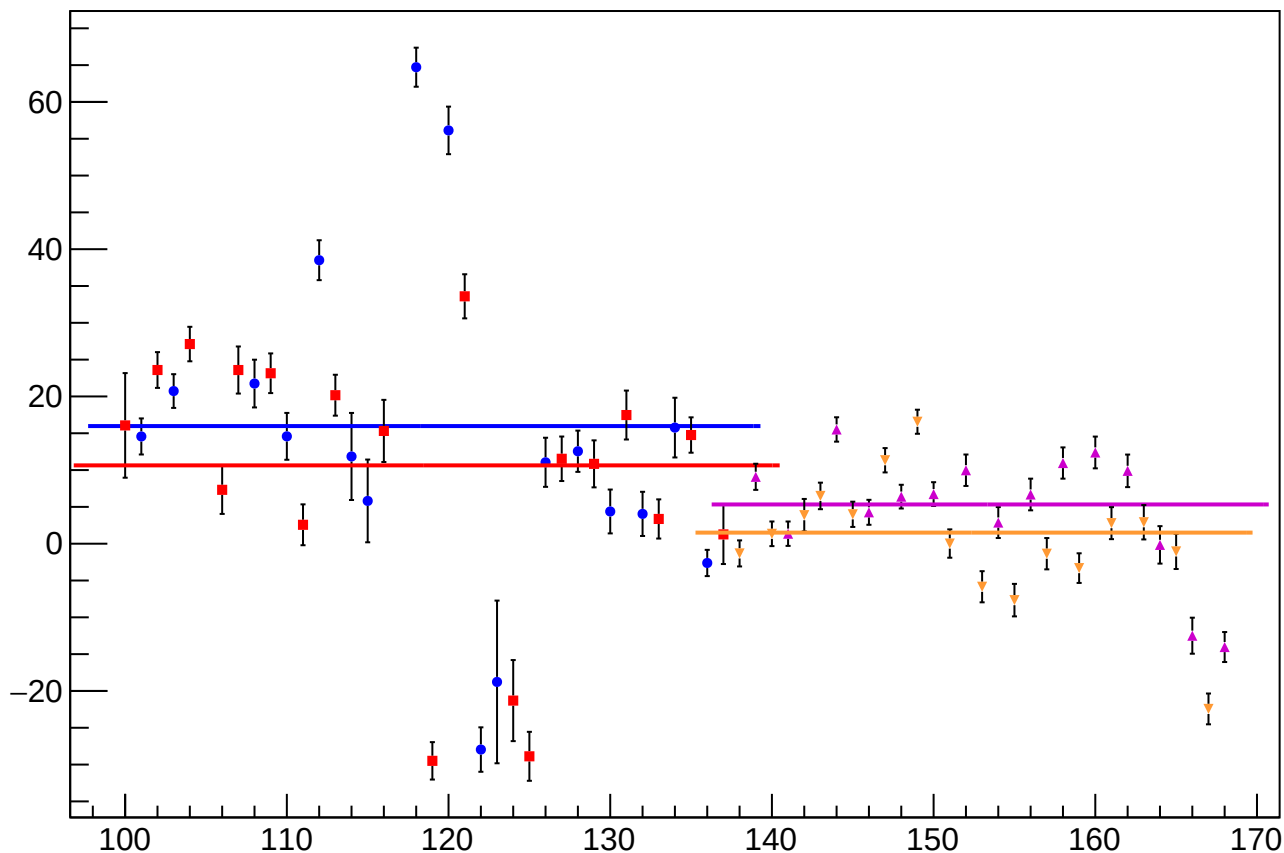
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1917.086+/-0.320 χ^2/NDF : 899240.3/31

Out: 1886.188+/-0.309 χ^2/NDF : 863432.3/34

All: 1901.112+/-0.222 χ^2/NDF : 1767489.6/66

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 $\pm$ 0.722 χ^2/NDF : 938.4/16

Left Out: 1.505 $\pm$ 0.486 χ^2/NDF : 303.9/15

Right Out: 10.638 $\pm$ 0.693 χ^2/NDF : 642.1/18

Left In: 5.330 $\pm$ 0.498 χ^2/NDF : 226.4/14

Left: 3.370 $\pm$ 0.348 χ^2/NDF : 560.5/30

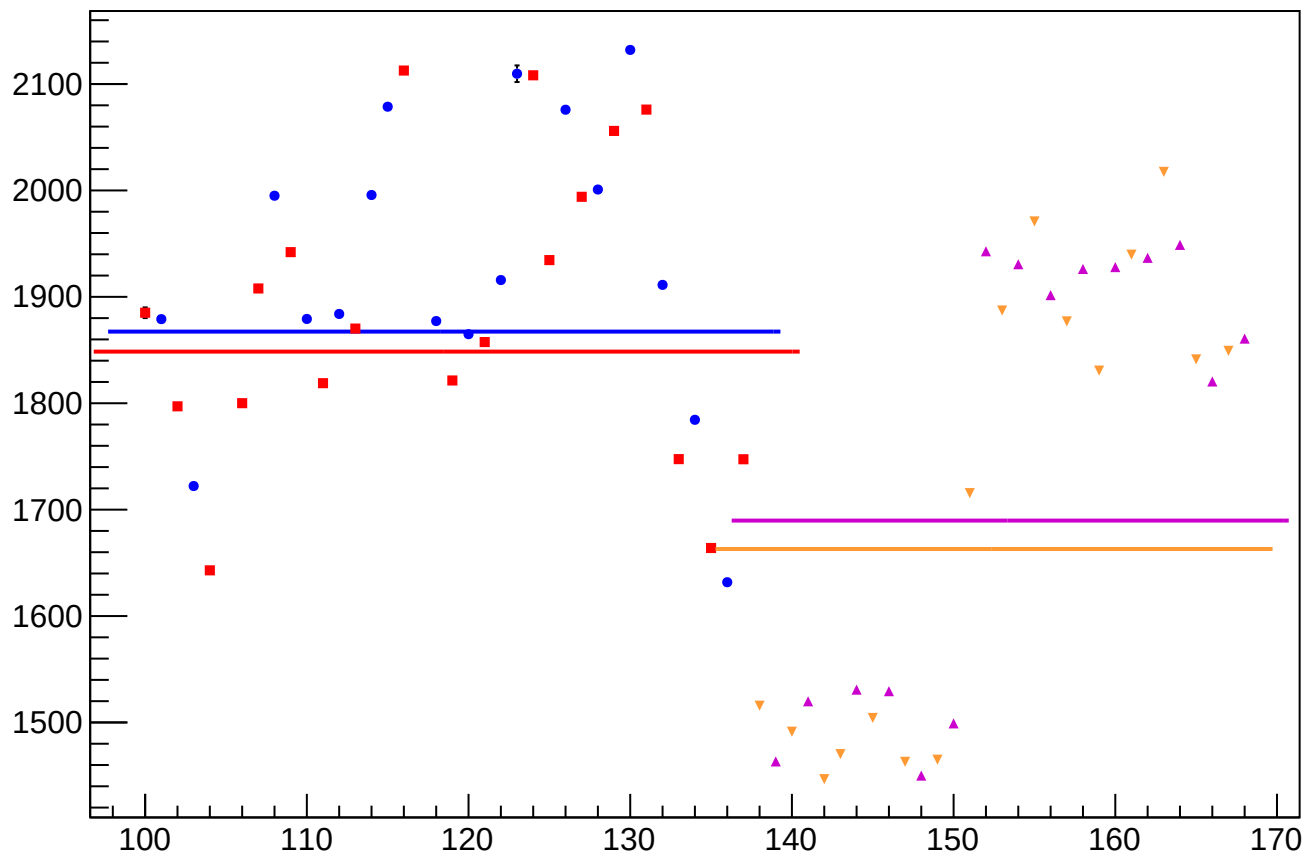
Right: 13.200 $\pm$ 0.500 χ^2/NDF : 1608.9/35

In: 8.766 $\pm$ 0.410 χ^2/NDF : 1312.1/31

Out: 4.513 $\pm$ 0.398 χ^2/NDF : 1062.4/34

All: 6.576 $\pm$ 0.286 χ^2/NDF : 2429.9/66

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2/NDF : 80926.4/16

Left Out: 1663.023 $\pm$ 0.344 χ^2/NDF : 355333.1/15

Right Out: 1848.532 $\pm$ 0.490 χ^2/NDF : 72527.3/18

Left In: 1689.731 $\pm$ 0.352 χ^2/NDF : 350626.3/14

Left: 1676.046 $\pm$ 0.246 χ^2/NDF : 708905.9/30

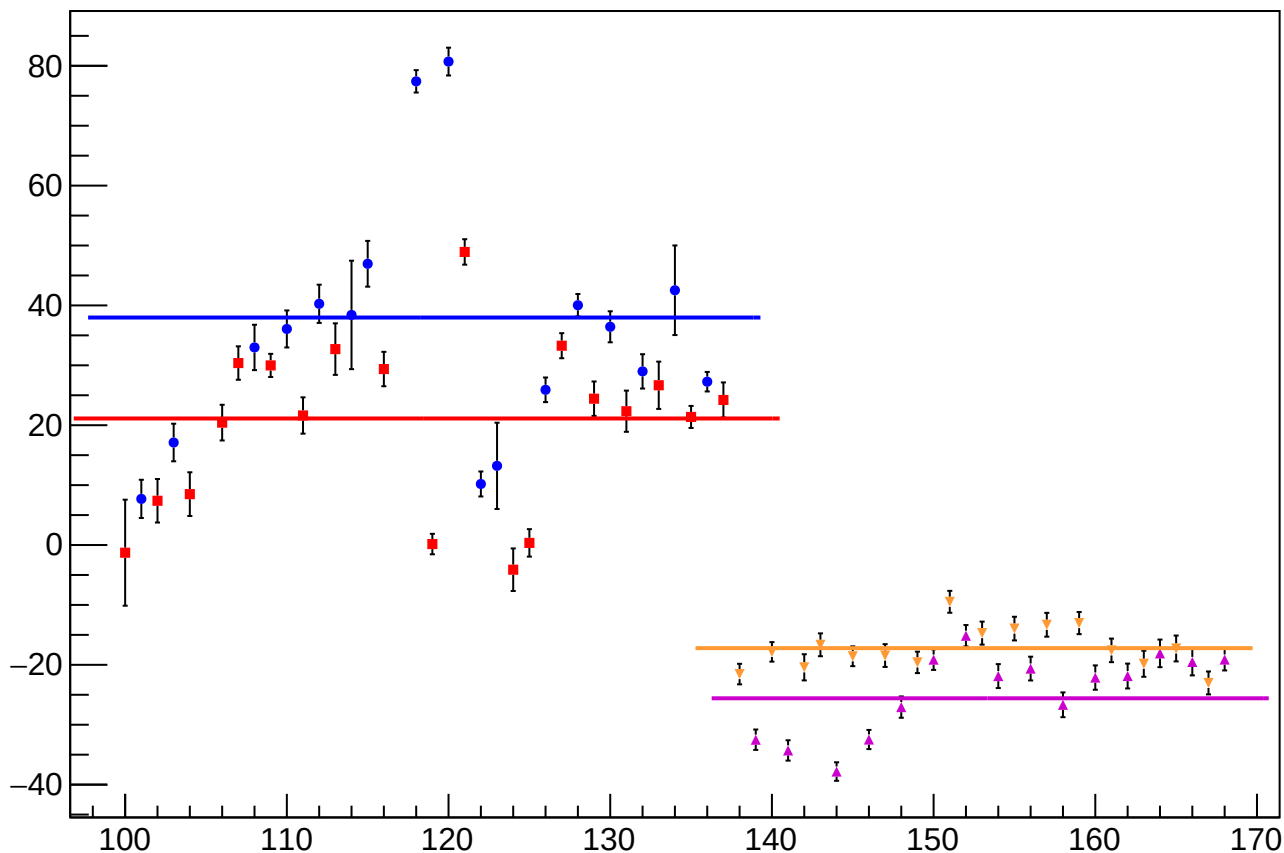
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1747.044 $\pm$ 0.290 χ^2/NDF : 513614.7/31

Out: 1724.119 $\pm$ 0.281 χ^2/NDF : 523879.8/34

All: 1735.240 $\pm$ 0.202 χ^2/NDF : 1040715.1/66

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 χ^2/NDF : 1204.3/16

Left Out: -17.217 ± 0.472 χ^2/NDF : 53.6/15

Right Out: 21.124 ± 0.608 χ^2/NDF : 573.6/18

Left In: -25.587 ± 0.478 χ^2/NDF : 219.7/14

Left: -21.349 ± 0.336 χ^2/NDF : 428.4/30

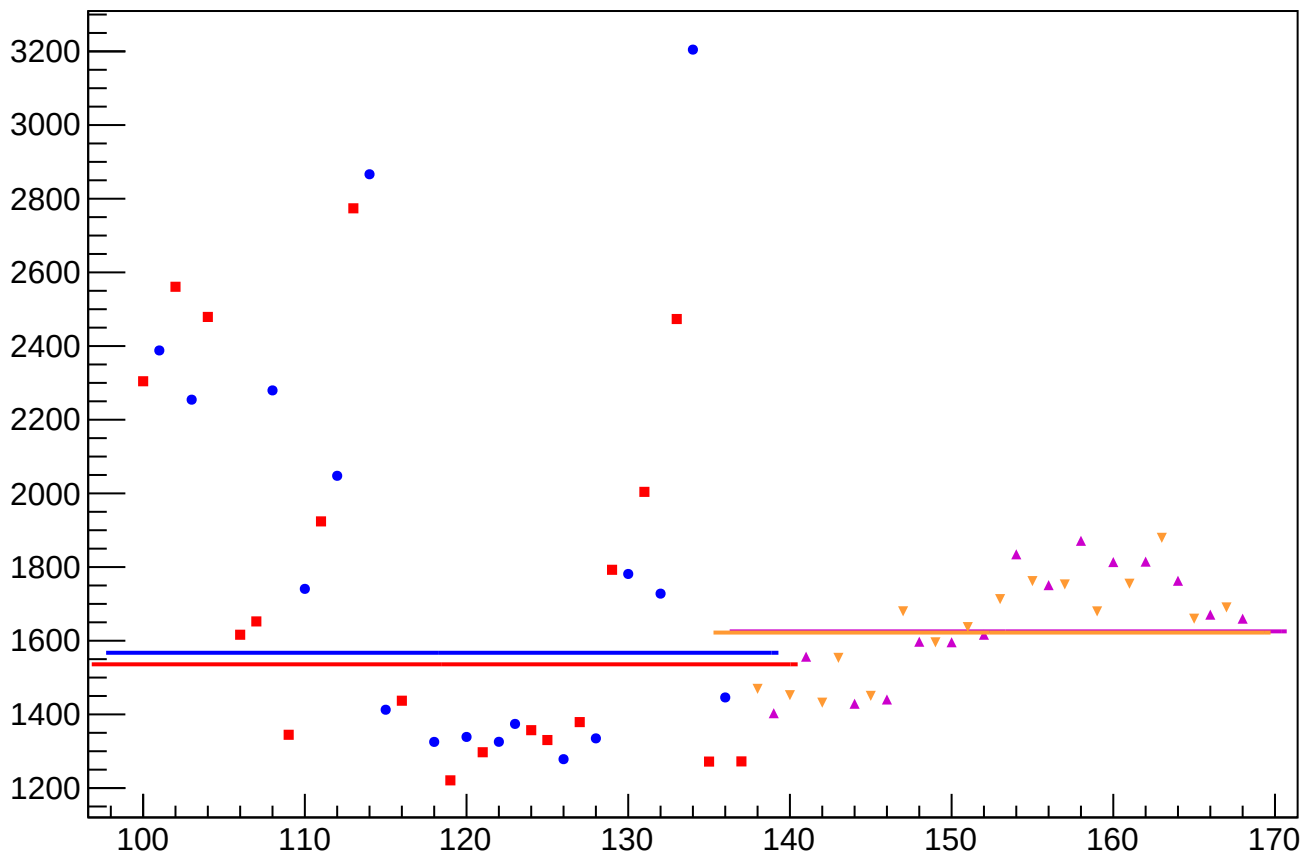
Right: 29.159 ± 0.440 χ^2/NDF : 2143.8/35

In: -2.691 ± 0.383 χ^2/NDF : 7787.8/31

Out: -2.801 ± 0.373 χ^2/NDF : 3105.9/34

All: -2.747 ± 0.267 χ^2/NDF : 10893.8/66

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1622.186 $\pm$ 0.334 χ^2 /NDF:144653.6/15

Right Out: 1535.967 $\pm$ 0.430 χ^2 /NDF: 882098.2/18

Left In: 1625.425 $\pm$ 0.338 χ^2 /NDF:198275.1/14

Left: 1623.785 $\pm$ 0.238 χ^2 /NDF: 342975.1/30

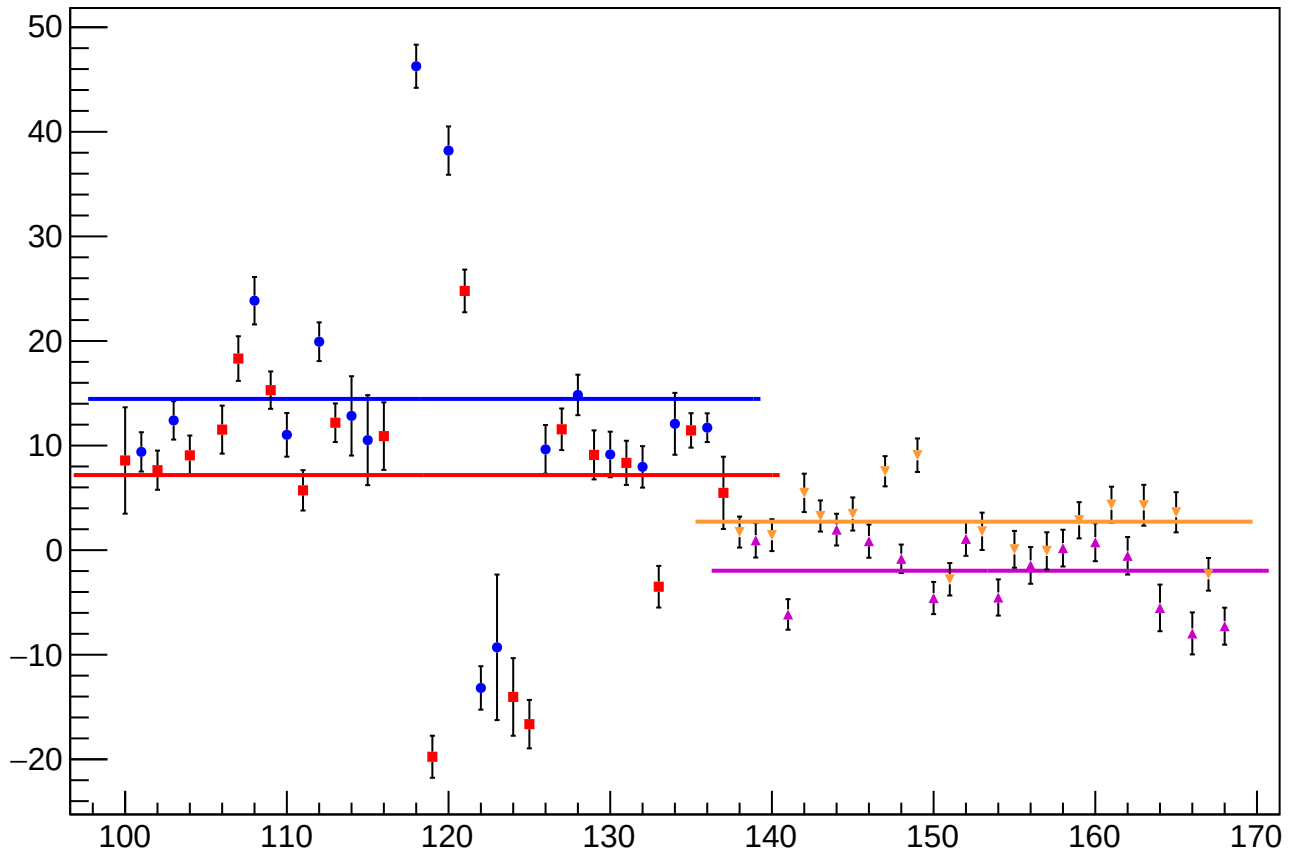
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1604.498 $\pm$ 0.270 χ^2 /NDF:882357.3/31

Out: 1589.767 $\pm$ 0.264 χ^2 /NDF:1051819.8/34

All: 1596.948 $\pm$ 0.189 χ^2 /NDF: 1935697.3/60

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.722 ± 0.412 $\chi^2/\text{NDF}: 60.3/15$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -1.969 ± 0.431 $\chi^2/\text{NDF}: 55.4/14$

Left: 0.483 ± 0.298 $\chi^2/\text{NDF}: 177.5/30$

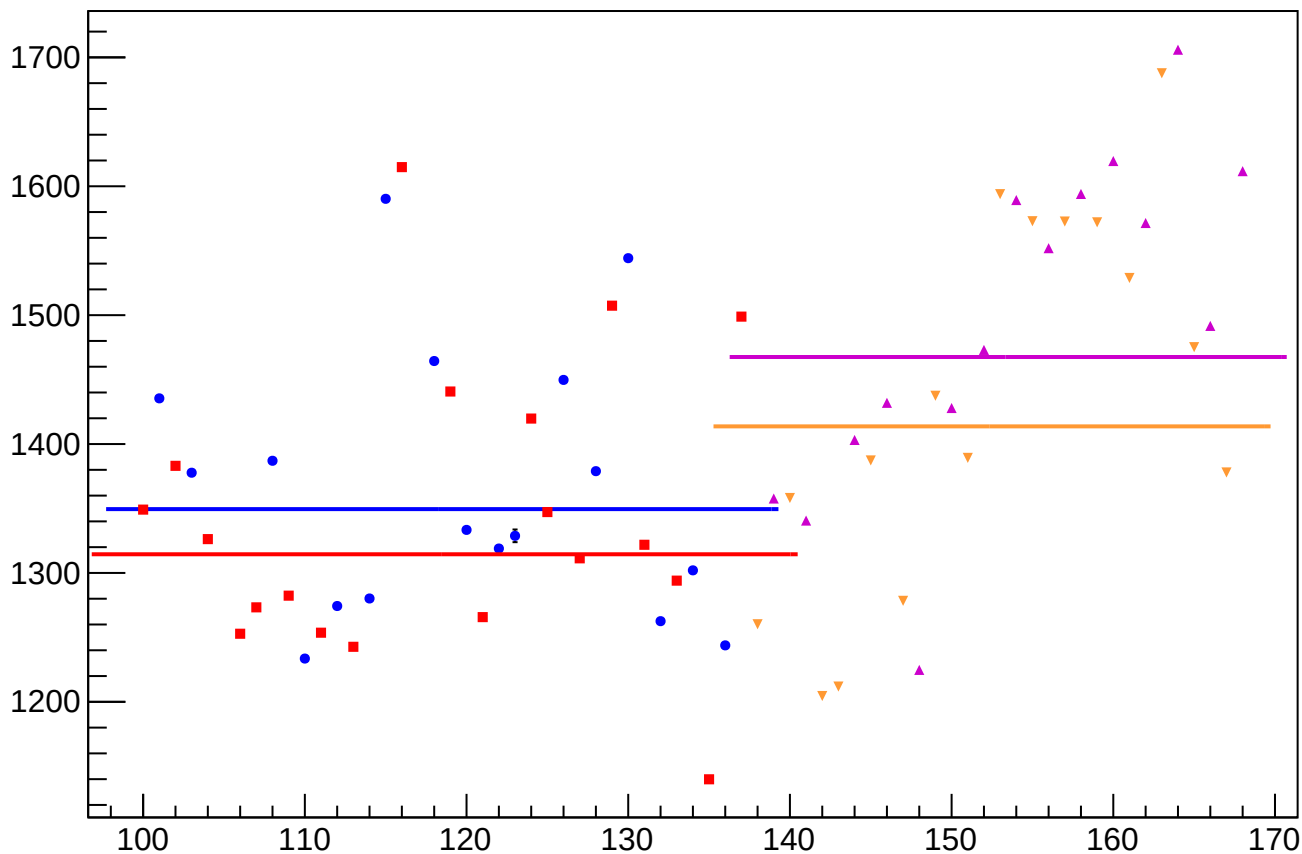
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 4.680 ± 0.333 $\chi^2/\text{NDF}: 1238.4/31$

Out: 4.551 ± 0.317 $\chi^2/\text{NDF}: 603.9/34$

All: 4.612 ± 0.229 $\chi^2/\text{NDF}: 1842.4/66$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 +/- 0.370 χ^2/NDF : 64667.6/16

Left Out: 1413.712 +/- 0.292 χ^2/NDF : 226714.7/15

Right Out: 1314.485 +/- 0.350 χ^2/NDF : 80952.7/18

Left In: 1467.539 +/- 0.305 χ^2/NDF : 175643.5/14

Left: 1439.407 +/- 0.211 χ^2/NDF : 418634.1/30

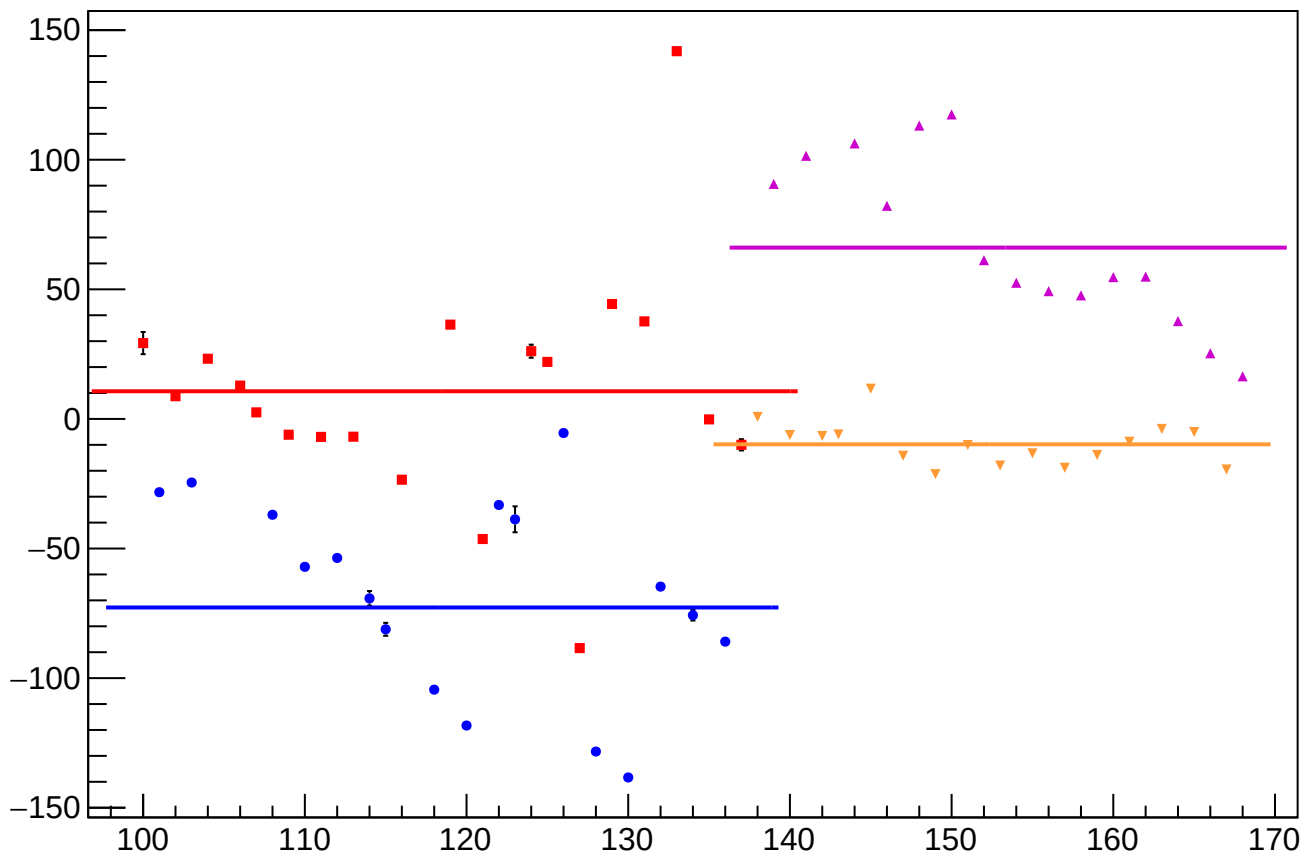
Right: 1331.011 +/- 0.254 χ^2/NDF : 150358.7/35

In: 1419.782 +/- 0.235 χ^2/NDF : 300892.2/31

Out: 1373.013 +/- 0.224 χ^2/NDF : 355193.1/34

All: 1395.230 +/- 0.162 χ^2/NDF : 676816.4/66

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -9.790 +/- 0.270 χ^2/NDF : 956.7/15

Right Out: 10.671 +/- 0.352 χ^2/NDF : 18171.0/18

Left In: 66.096 +/- 0.274 χ^2/NDF : 12930.2/14

Left: 27.580 +/- 0.193 χ^2/NDF : 52712.1/30

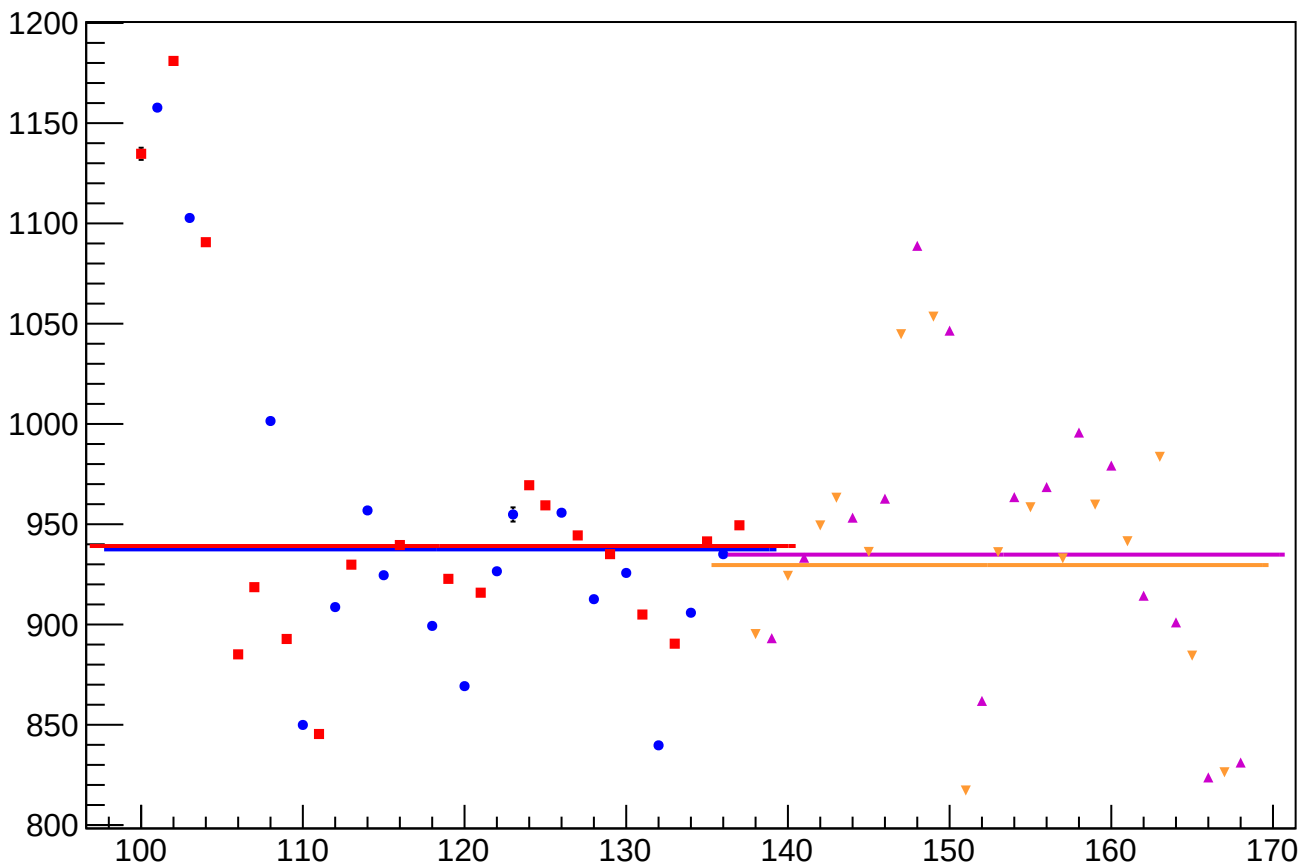
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 15.502 +/- 0.219 χ^2/NDF : 117928.0/31

Out: -2.211 +/- 0.214 χ^2/NDF : 21250.9/34

All: 6.470 +/- 0.153 χ^2/NDF : 142522.3/66

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 929.638 ± 0.191 χ^2/NDF : 111346.5/15

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 934.842 ± 0.194 χ^2/NDF : 130187.0/14

Left: 932.201 ± 0.136 χ^2/NDF : 241898.7/30

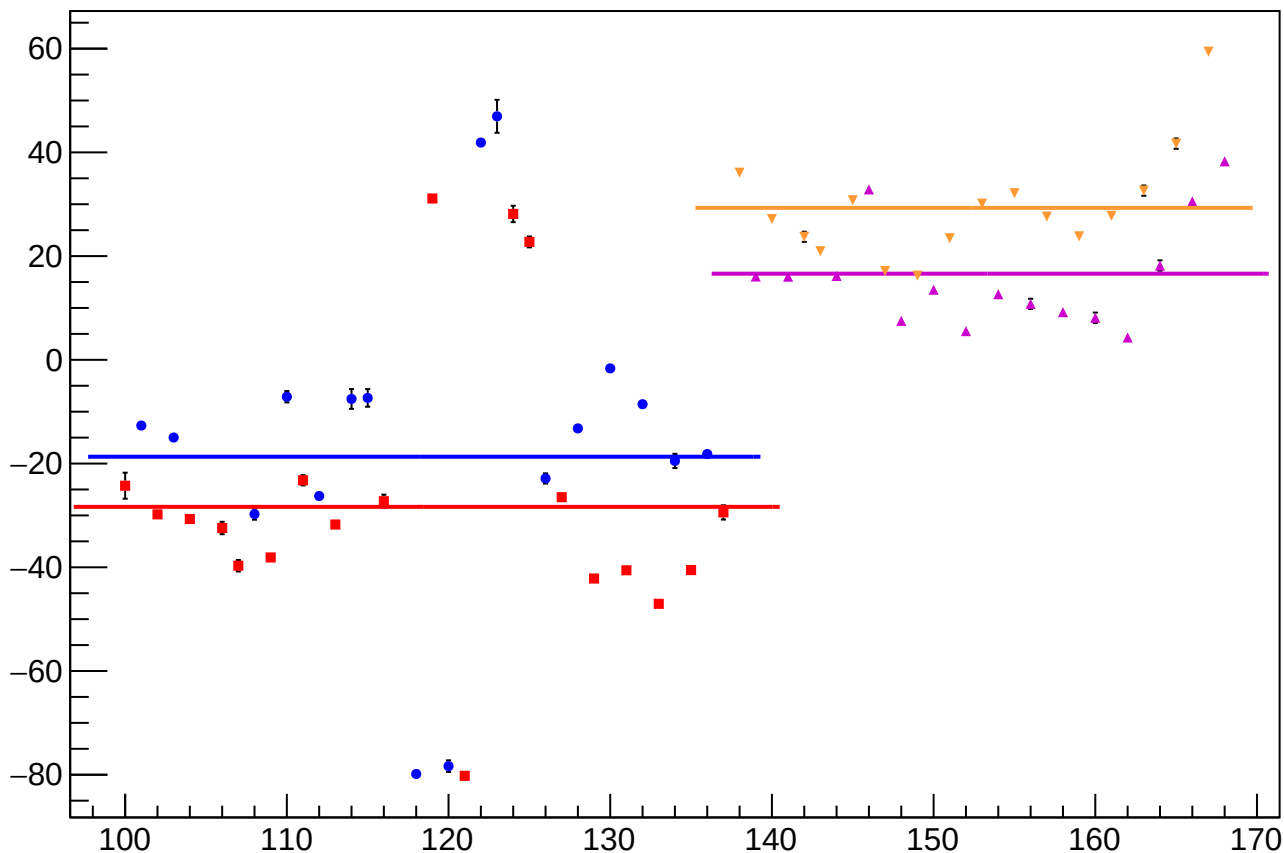
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 935.794 ± 0.155 χ^2/NDF : 228560.6/31

Out: 933.158 ± 0.152 χ^2/NDF : 202515.5/34

All: 934.450 ± 0.108 χ^2/NDF : 431224.2/66

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 29.301 ± 0.209 $\chi^2/\text{NDF}: 2567.9/15$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 16.611 ± 0.214 $\chi^2/\text{NDF}: 2240.9/14$

Left: 23.092 ± 0.150 $\chi^2/\text{NDF}: 6608.4/30$

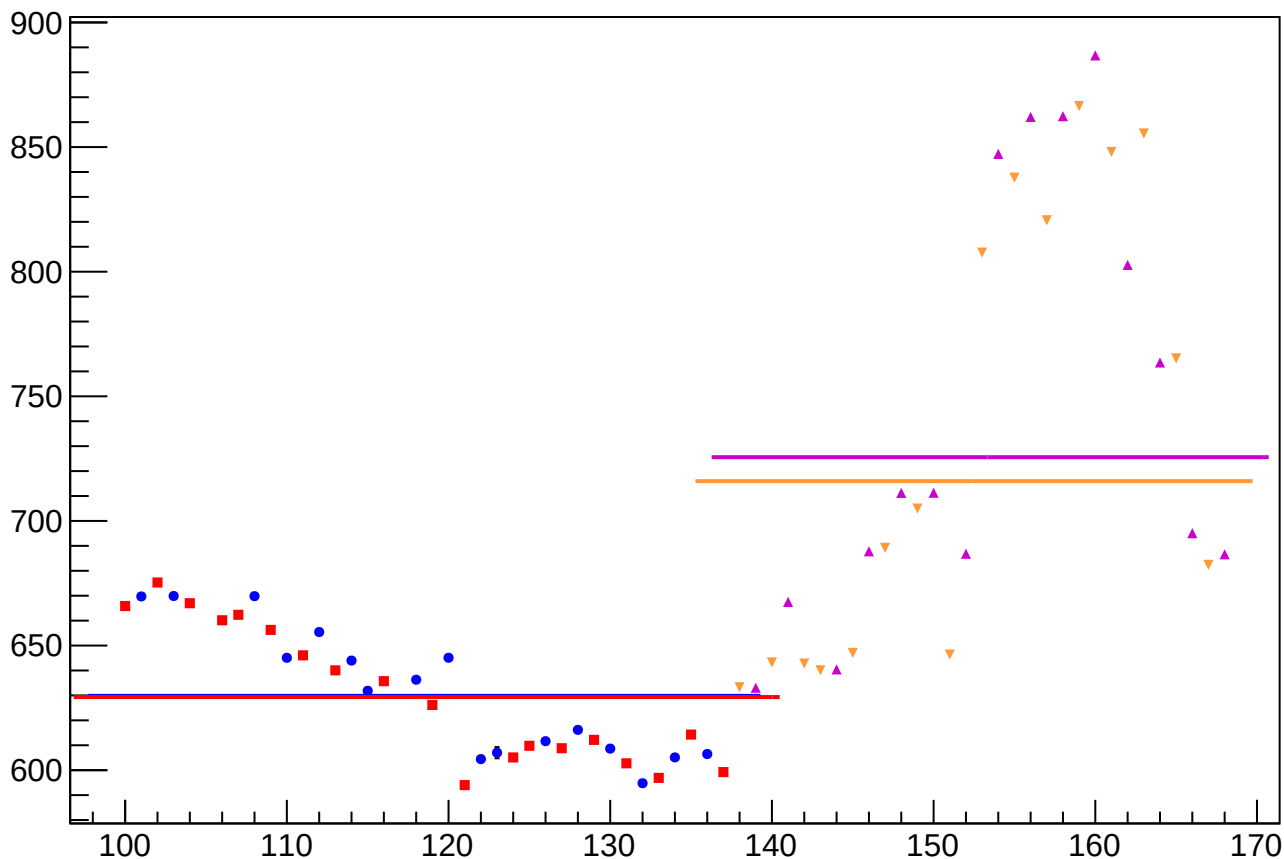
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 1.188 ± 0.160 $\chi^2/\text{NDF}: 27157.3/31$

Out: 3.863 ± 0.156 $\chi^2/\text{NDF}: 48568.7/34$

All: 2.559 ± 0.112 $\chi^2/\text{NDF}: 75868.6/66$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815 $\pm$ 0.172 χ^2 /NDF: 23298.3/16

Left Out: 715.968 $\pm$ 0.148 χ^2 /NDF: 329437.2/15

Right Out: 629.340 $\pm$ 0.166 χ^2 /NDF: 25538.5/18

Left In: 725.577 $\pm$ 0.151 χ^2 /NDF: 275595.3/14

Left: 720.669 $\pm$ 0.106 χ^2 /NDF: 607095.7/30

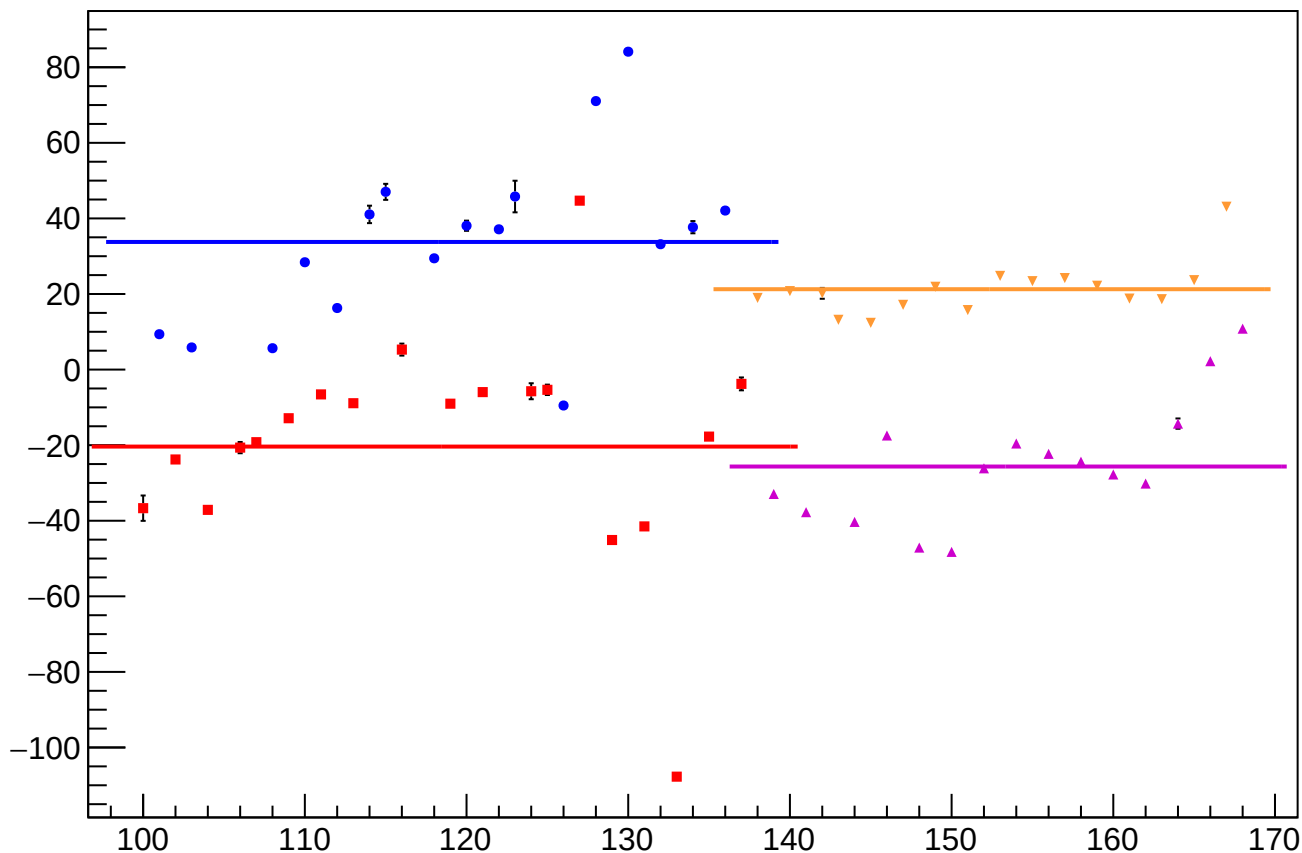
Right: 629.570 $\pm$ 0.119 χ^2 /NDF: 48840.7/35

In: 683.729 $\pm$ 0.113 χ^2 /NDF: 474253.7/31

Out: 677.742 $\pm$ 0.111 χ^2 /NDF: 506238.8/34

All: 680.660 $\pm$ 0.079 χ^2 /NDF: 981920.6/66

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 21.269+/-0.298 χ^2/NDF : 565.2/15

Right Out: -20.375+/-0.293 χ^2/NDF : 11287.7/18

Left In: -25.654+/-0.301 χ^2/NDF : 2872.6/14

Left: -1.932+/-0.212 χ^2/NDF : 15684.8/30

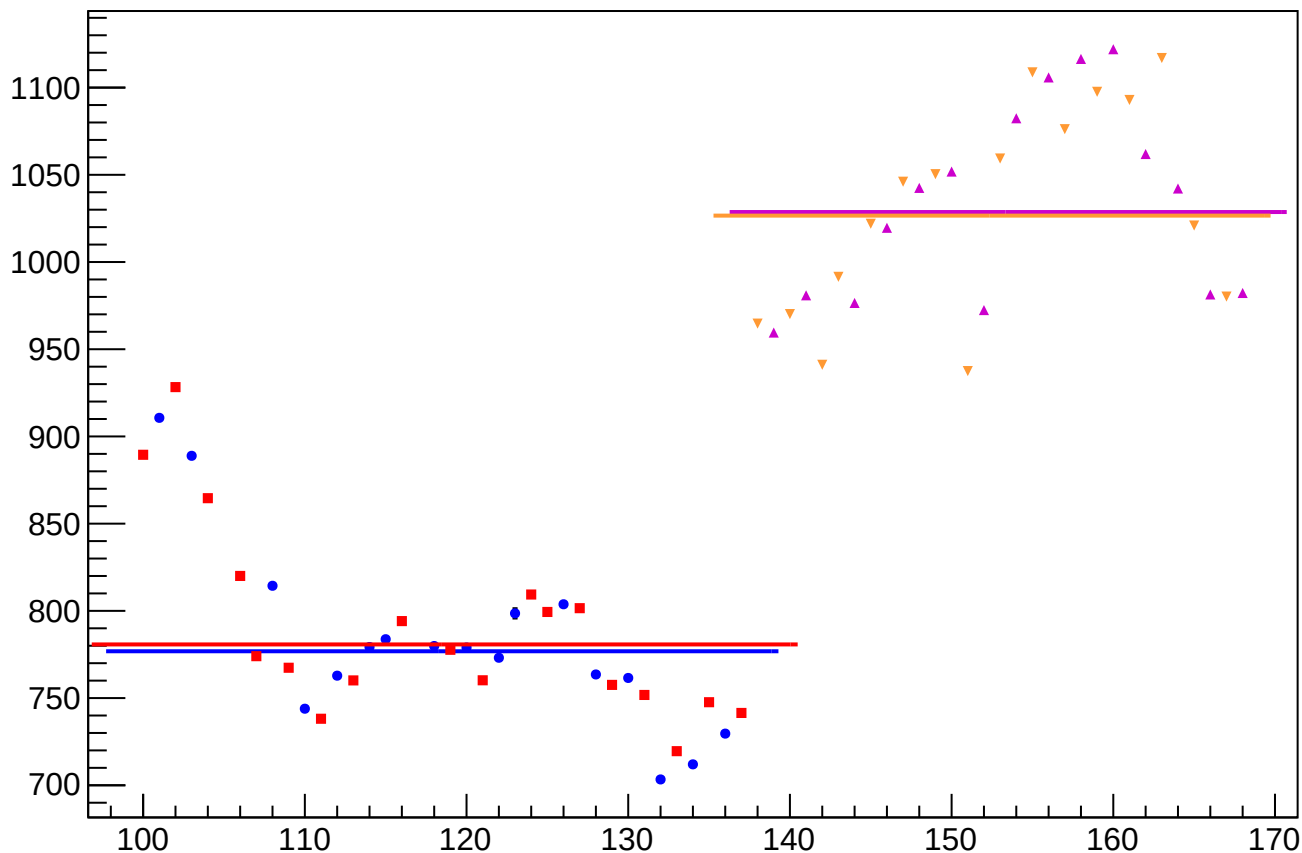
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 4.216+/-0.213 χ^2/NDF : 28890.7/31

Out: 0.051+/-0.209 χ^2/NDF : 21793.2/34

All: 2.096+/-0.149 χ^2/NDF : 50879.2/66

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1026.603 $\pm$ 0.211 χ^2 /NDF: 75743.4/15

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1028.660 $\pm$ 0.213 χ^2 /NDF: 63663.0/14

Left: 1027.620 $\pm$ 0.150 χ^2 /NDF: 139453.5/30

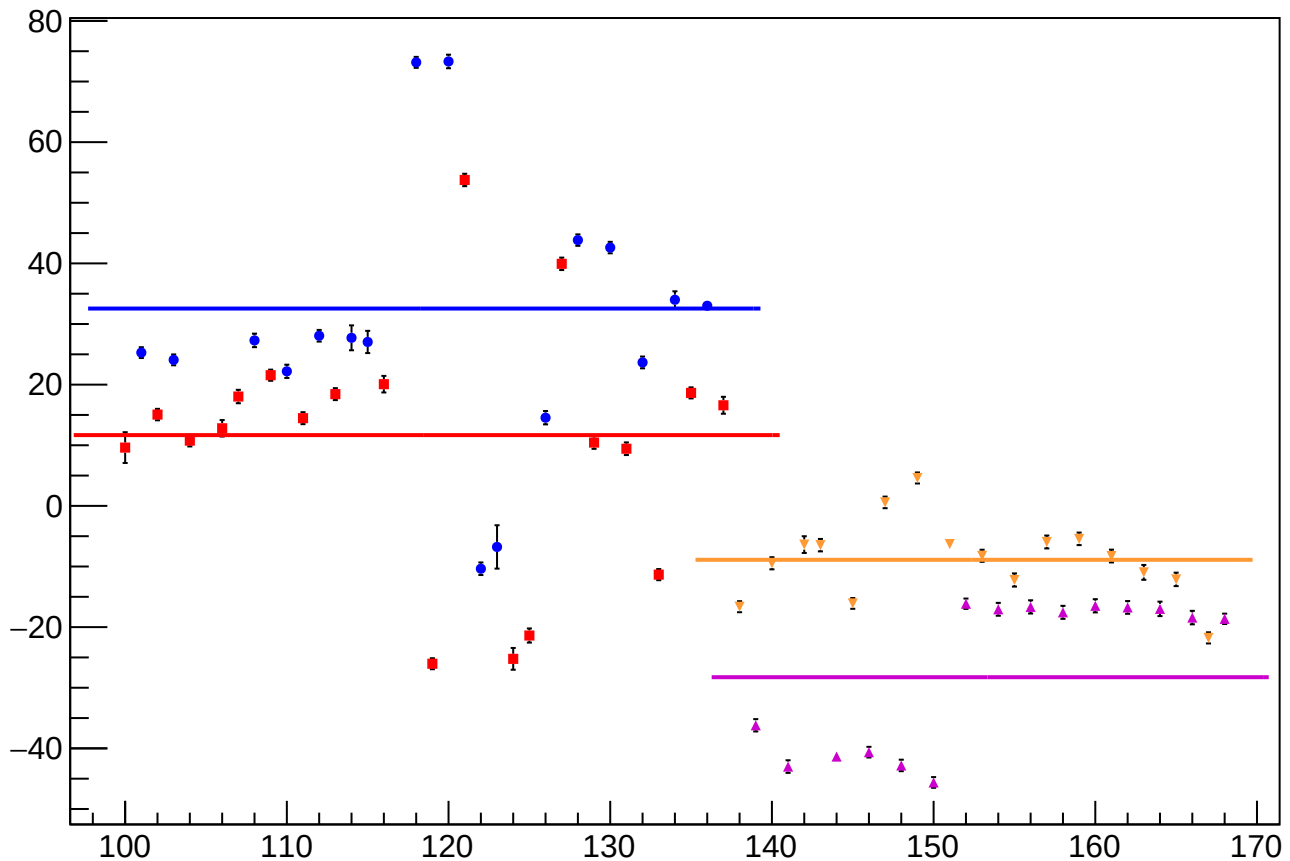
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 902.088 $\pm$ 0.150 χ^2 /NDF: 832549.2/31

Out: 901.340 $\pm$ 0.148 χ^2 /NDF: 826078.5/34

All: 901.708 $\pm$ 0.105 χ^2 /NDF: 1658640.4/66

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -8.893 ± 0.250 χ^2/NDF : 711.5/15

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -28.260 ± 0.253 χ^2/NDF : 2384.5/14

Left: -18.472 ± 0.178 χ^2/NDF : 6054.4/30

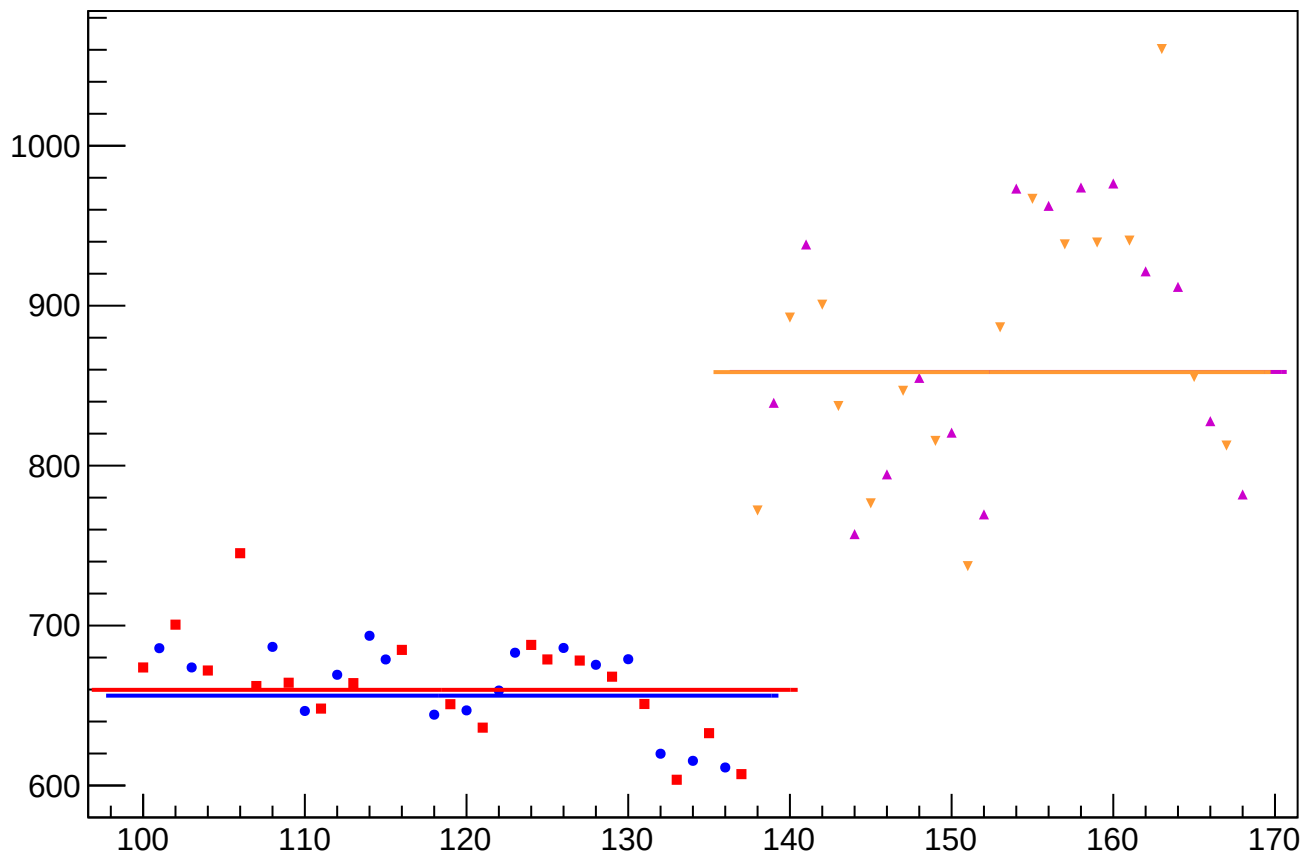
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 2.179 ± 0.179 χ^2/NDF : 37345.1/31

Out: 1.532 ± 0.176 χ^2/NDF : 10488.2/34

All: 1.850 ± 0.125 χ^2/NDF : 47839.9/66

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2 /NDF: 23569.6/16

Left Out: 858.479 $\pm$ 0.177 χ^2 /NDF:204753.9/15

Right Out: 659.813 $\pm$ 0.175 χ^2 /NDF: 28325.7/18

Left In: 858.572 $\pm$ 0.179 χ^2 /NDF:194871.1/14

Left: 858.525 $\pm$ 0.126 χ^2 /NDF: 399625.1/30

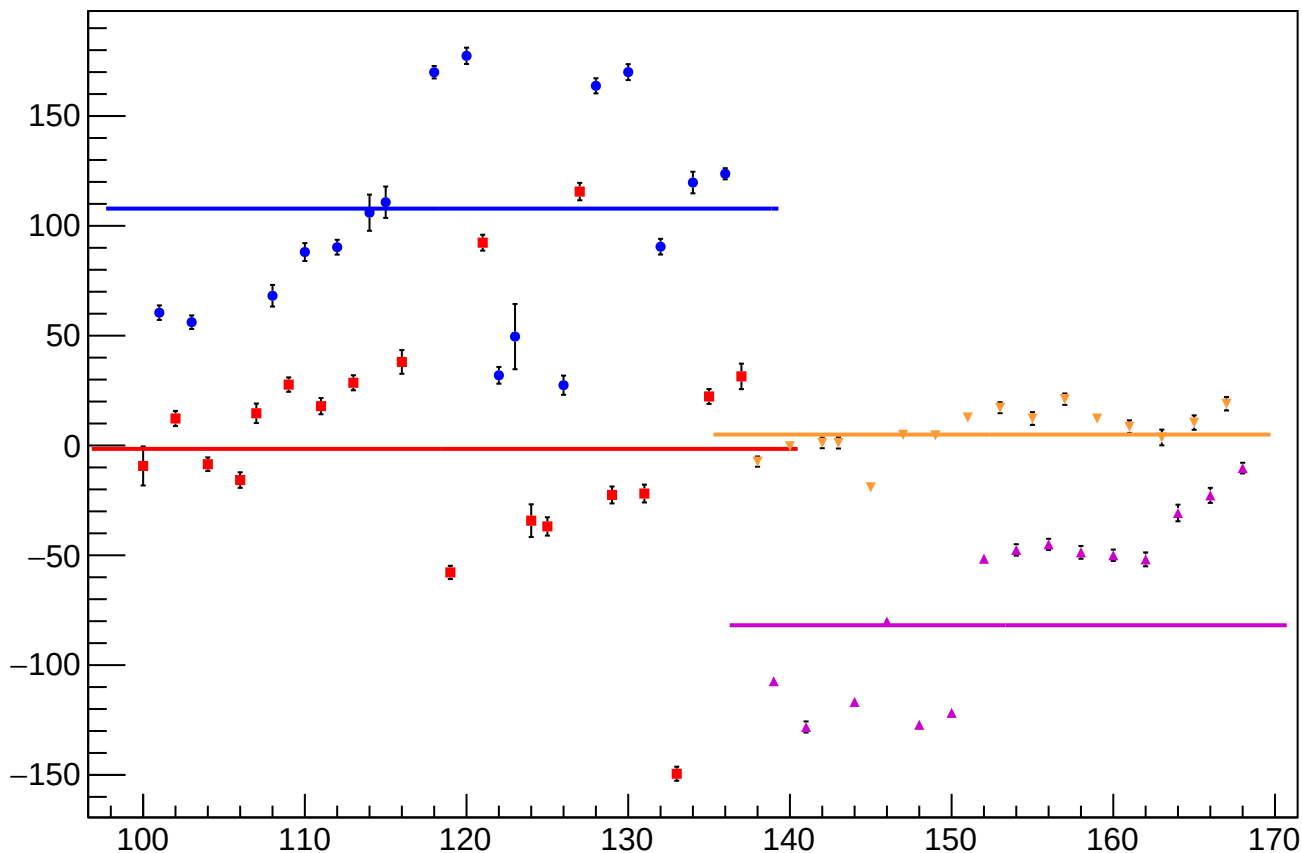
Right: 658.039 $\pm$ 0.125 χ^2 /NDF: 52106.5/35

In: 757.266 $\pm$ 0.127 χ^2 /NDF:858378.4/31

Out: 757.775 $\pm$ 0.124 χ^2 /NDF:871122.2/34

All: 757.525 $\pm$ 0.089 χ^2 /NDF: 1729508.8/66

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 4.972 ± 0.593 $\chi^2/\text{NDF}: 296.7/15$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -81.863 ± 0.597 $\chi^2/\text{NDF}: 4242.4/14$

Left: -38.177 ± 0.421 $\chi^2/\text{NDF}: 15191.4/30$

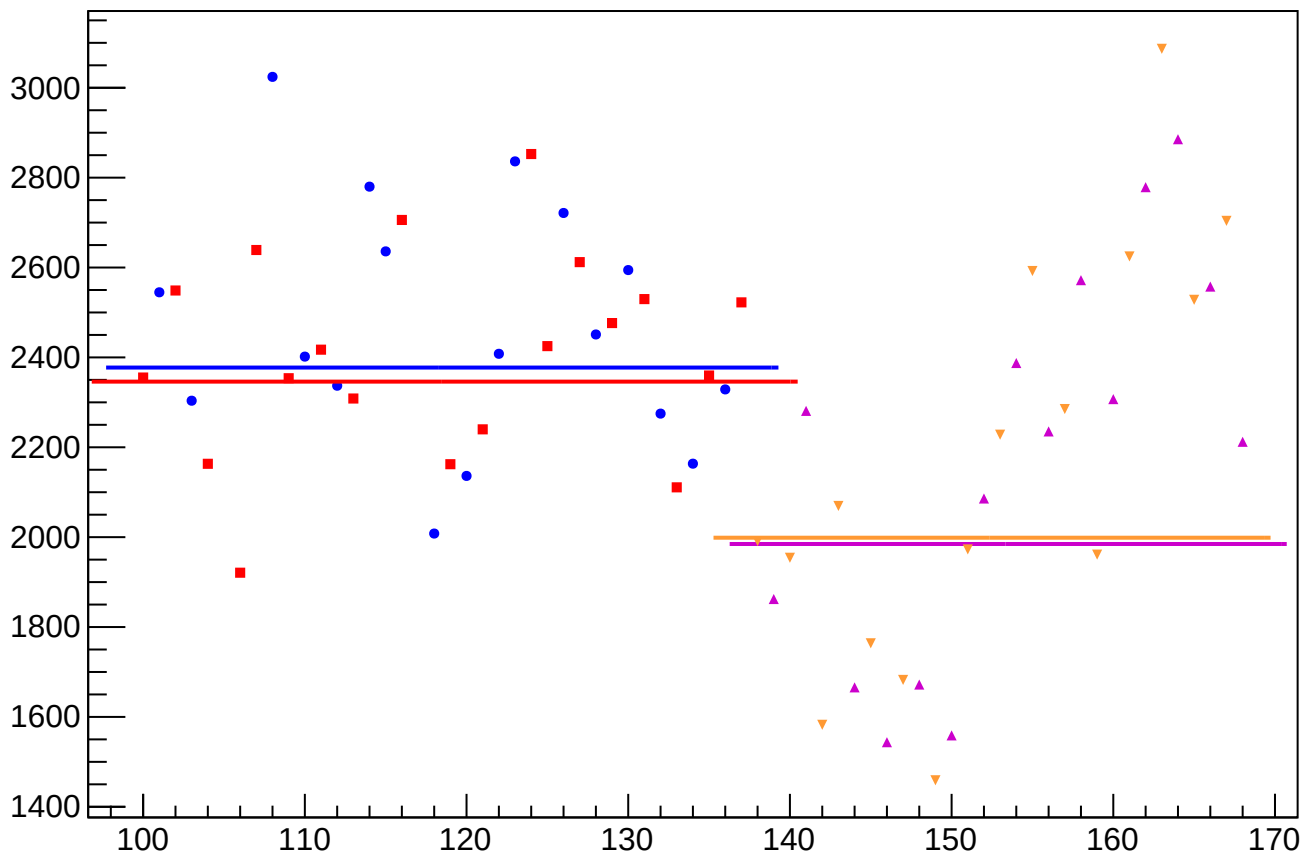
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -25.812 ± 0.501 $\chi^2/\text{NDF}: 36911.4/31$

Out: 2.948 ± 0.492 $\chi^2/\text{NDF}: 4858.0/34$

All: -11.186 ± 0.351 $\chi^2/\text{NDF}: 43446.0/66$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 $\pm$ 0.652 χ^2 /NDF: 119648.6/16

Left Out: 1998.780 $\pm$ 0.419 χ^2 /NDF: 920622.4/15

Right Out: 2346.121 $\pm$ 0.625 χ^2 /NDF: 108257.3/18

Left In: 1984.796 $\pm$ 0.422 χ^2 /NDF: 905546.8/14

Left: 1991.831 $\pm$ 0.297 χ^2 /NDF: 1826721.7/30

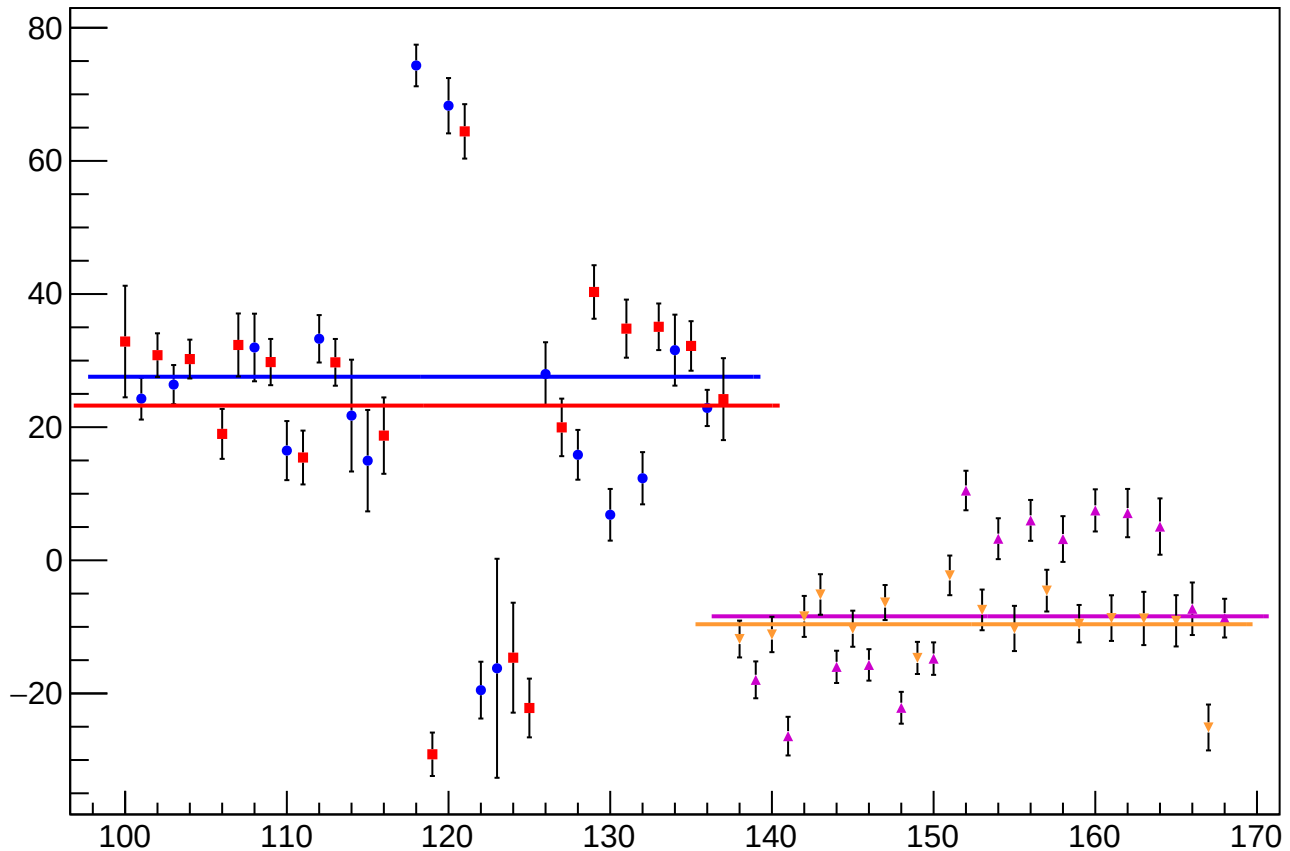
Right: 2361.109 $\pm$ 0.451 χ^2 /NDF: 229108.5/35

In: 2100.796 $\pm$ 0.354 χ^2 /NDF: 1280983.6/31

Out: 2106.709 $\pm$ 0.348 χ^2 /NDF: 1242038.9/34

All: 2103.803 $\pm$ 0.248 χ^2 /NDF: 2523164.3/66

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -9.605 ± 0.751 $\chi^2/\text{NDF}: 38.9/15$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.413 ± 0.753 $\chi^2/\text{NDF}: 251.6/14$

Left: -9.010 ± 0.532 $\chi^2/\text{NDF}: 291.8/30$

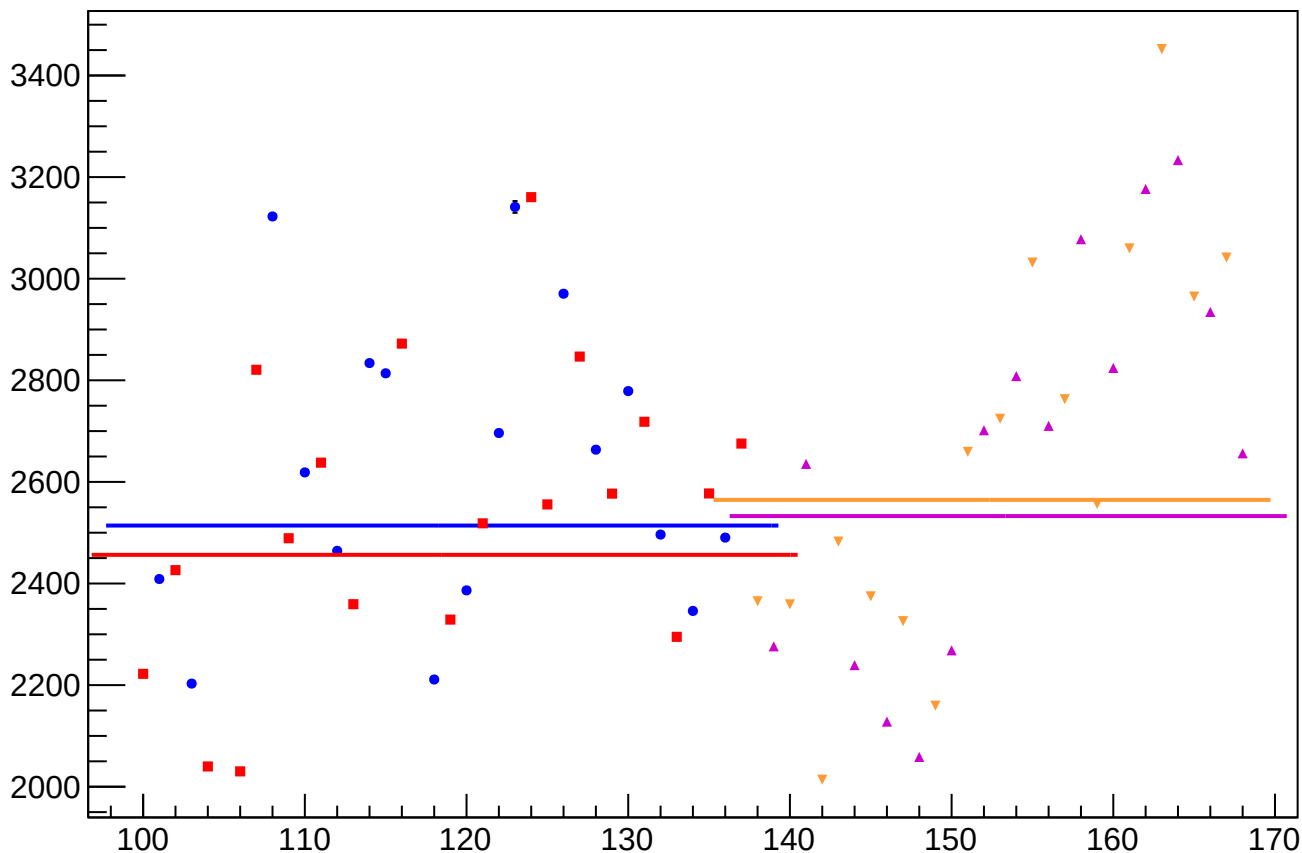
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 5.028 ± 0.596 $\chi^2/\text{NDF}: 1625.2/31$

Out: 3.415 ± 0.584 $\chi^2/\text{NDF}: 1354.7/34$

All: 4.205 ± 0.417 $\chi^2/\text{NDF}: 2983.7/66$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 ± 0.689 $\chi^2/\text{NDF}: 120961.3/16$

Left Out: 2564.633 ± 0.531 $\chi^2/\text{NDF}: 423855.9/15$

Right Out: 2456.460 ± 0.655 $\chi^2/\text{NDF}: 149732.7/18$

Left In: 2532.744 ± 0.532 $\chi^2/\text{NDF}: 448408.4/14$

Left: 2548.718 ± 0.376 $\chi^2/\text{NDF}: 874063.0/30$

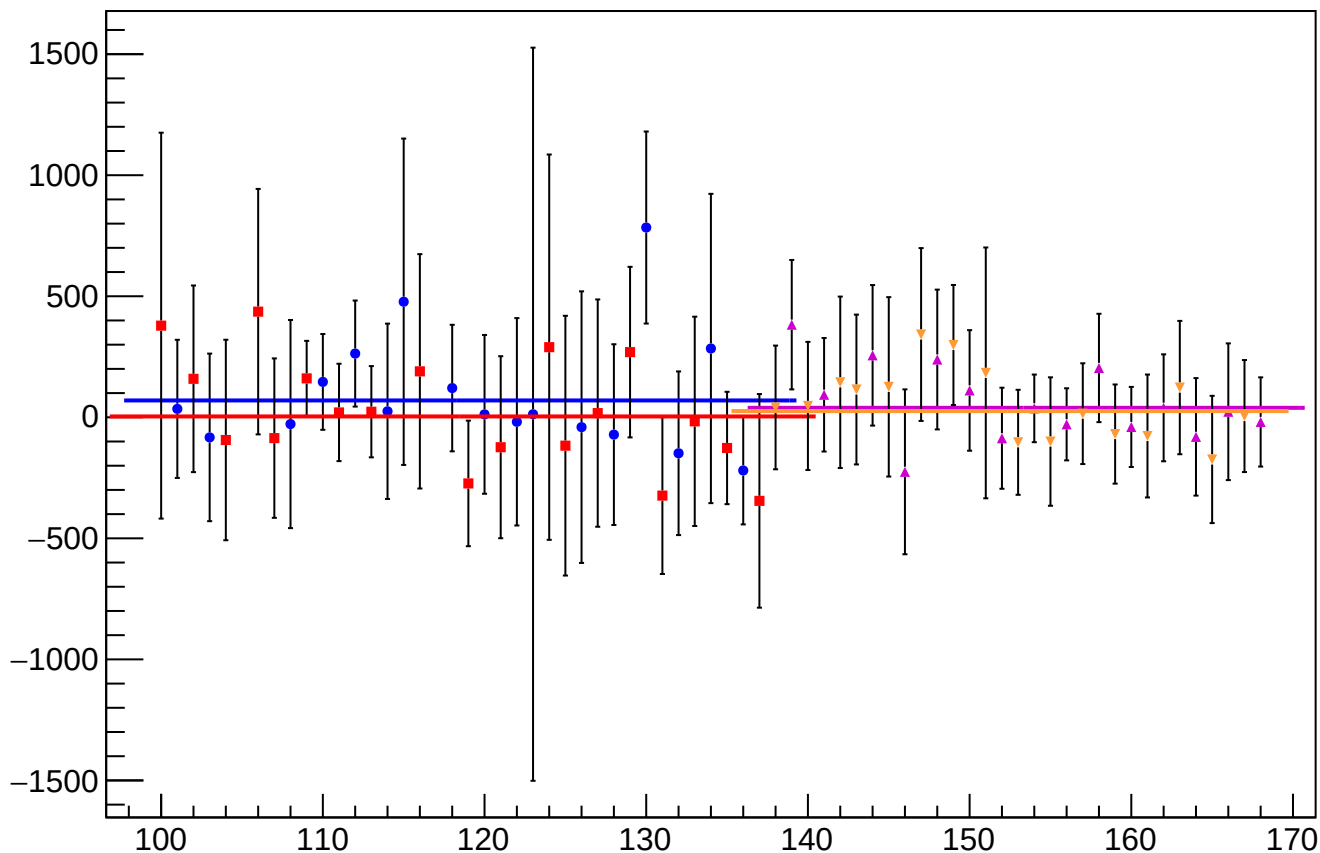
Right: 2483.827 ± 0.475 $\chi^2/\text{NDF}: 274364.7/35$

In: 2525.777 ± 0.421 $\chi^2/\text{NDF}: 569828.7/31$

Out: 2521.755 ± 0.413 $\chi^2/\text{NDF}: 590027.5/34$

All: 2523.725 ± 0.295 $\chi^2/\text{NDF}: 1159902.7/66$

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: 25.730 $\pm$ 66.318 χ^2 /NDF:4.0/15

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 39.141 $\pm$ 54.546 χ^2 /NDF:5.1/14

Left: 33.730 $\pm$ 42.127 χ^2 /NDF: 9.2/30

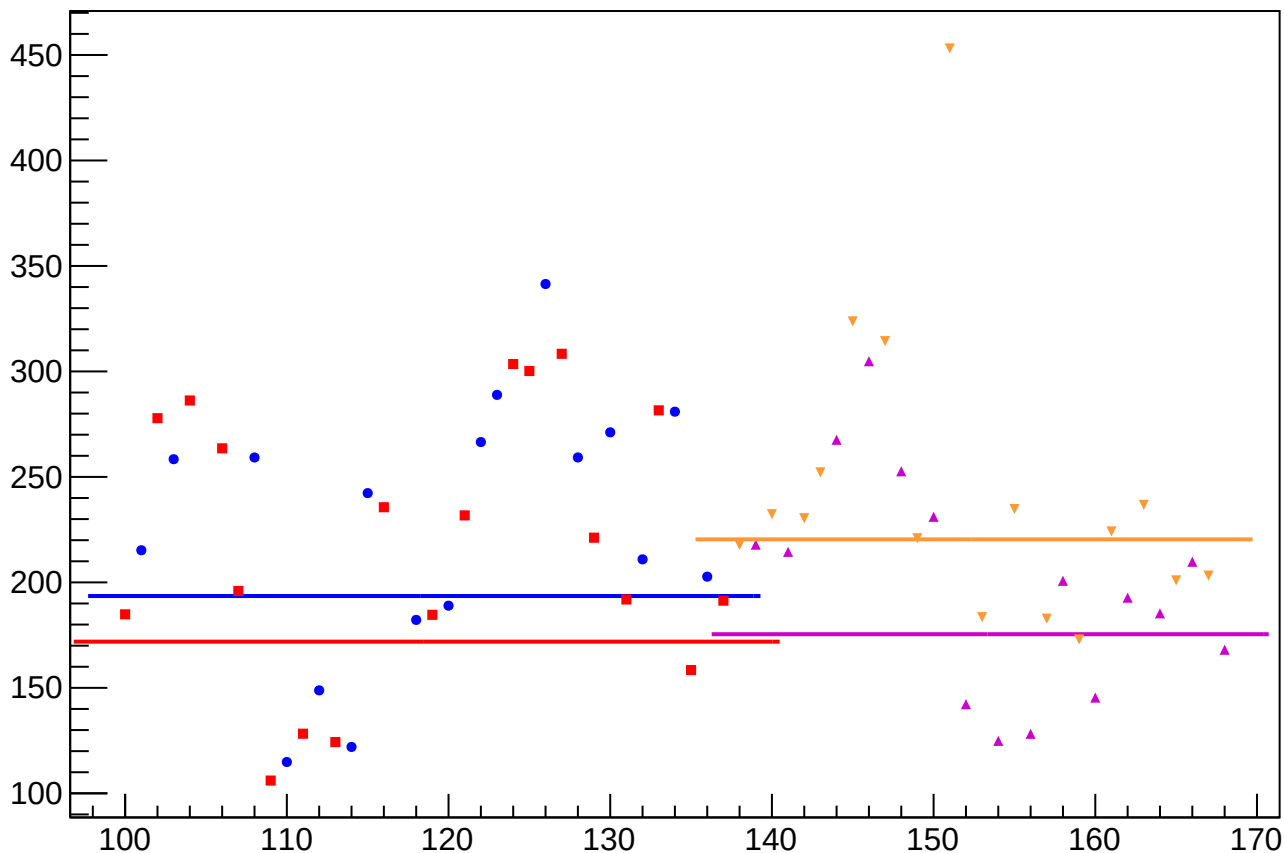
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 48.966 $\pm$ 44.891 χ^2 /NDF:12.5/31

Out: 15.241 $\pm$ 48.136 χ^2 /NDF:10.5/34

All: 33.279 $\pm$ 32.830 χ^2 /NDF: 23.3/66

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: 220.393+/-0.047 χ^2/NDF : 990255.4/15

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 175.433+/-0.039 χ^2/NDF : 1493050.1/14

Left: 193.575+/-0.030 χ^2/NDF : 3031597.2/30

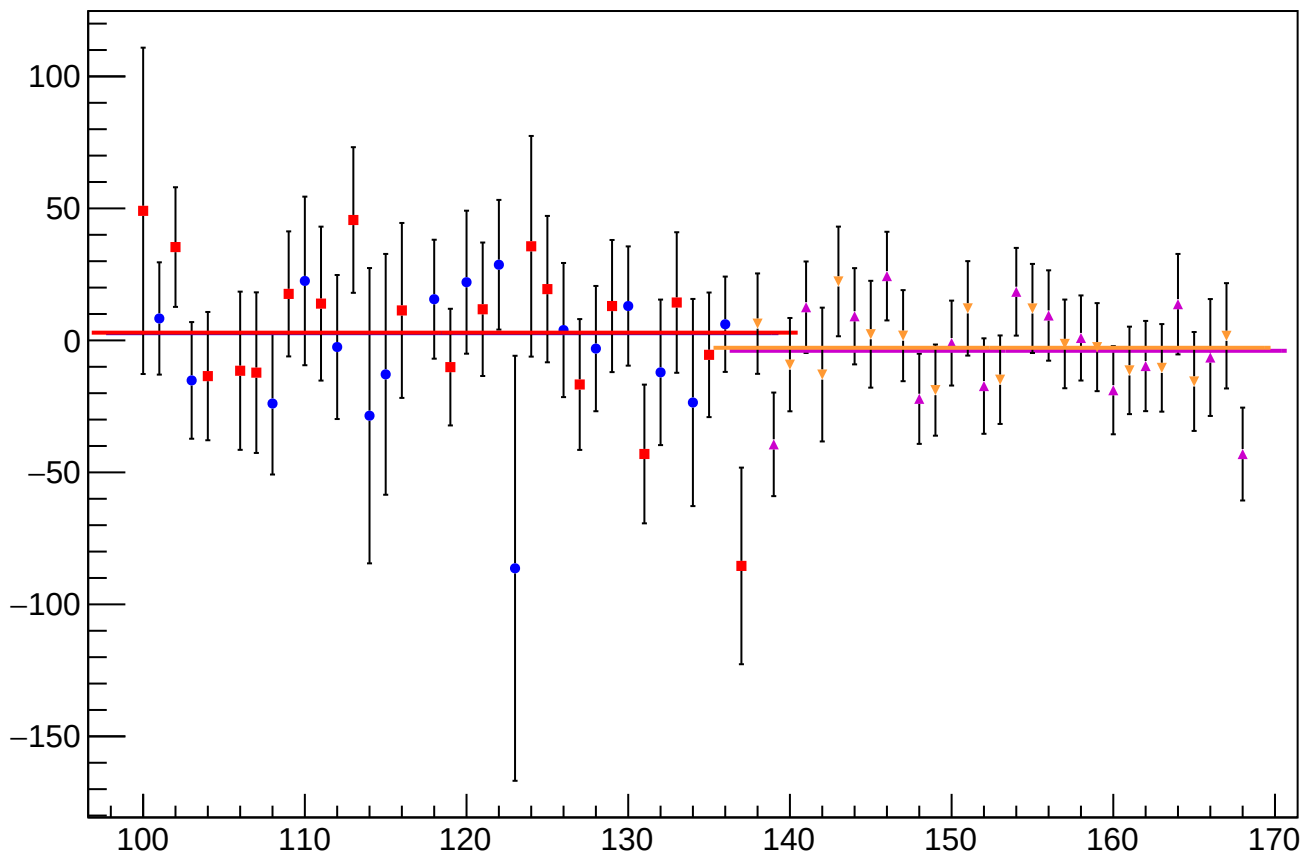
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 181.274+/-0.032 χ^2/NDF : 2574543.4/31

Out: 197.449+/-0.034 χ^2/NDF : 3073097.2/34

All: 188.798+/-0.023 χ^2/NDF : 5768416.4/66

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: -2.804 $\pm$ 4.519 χ^2 /NDF:6.0/15

Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18

Left In: -3.943 $\pm$ 4.528 χ^2 /NDF:18.5/14

Left: -3.372 $\pm$ 3.199 χ^2 /NDF: 24.5/30

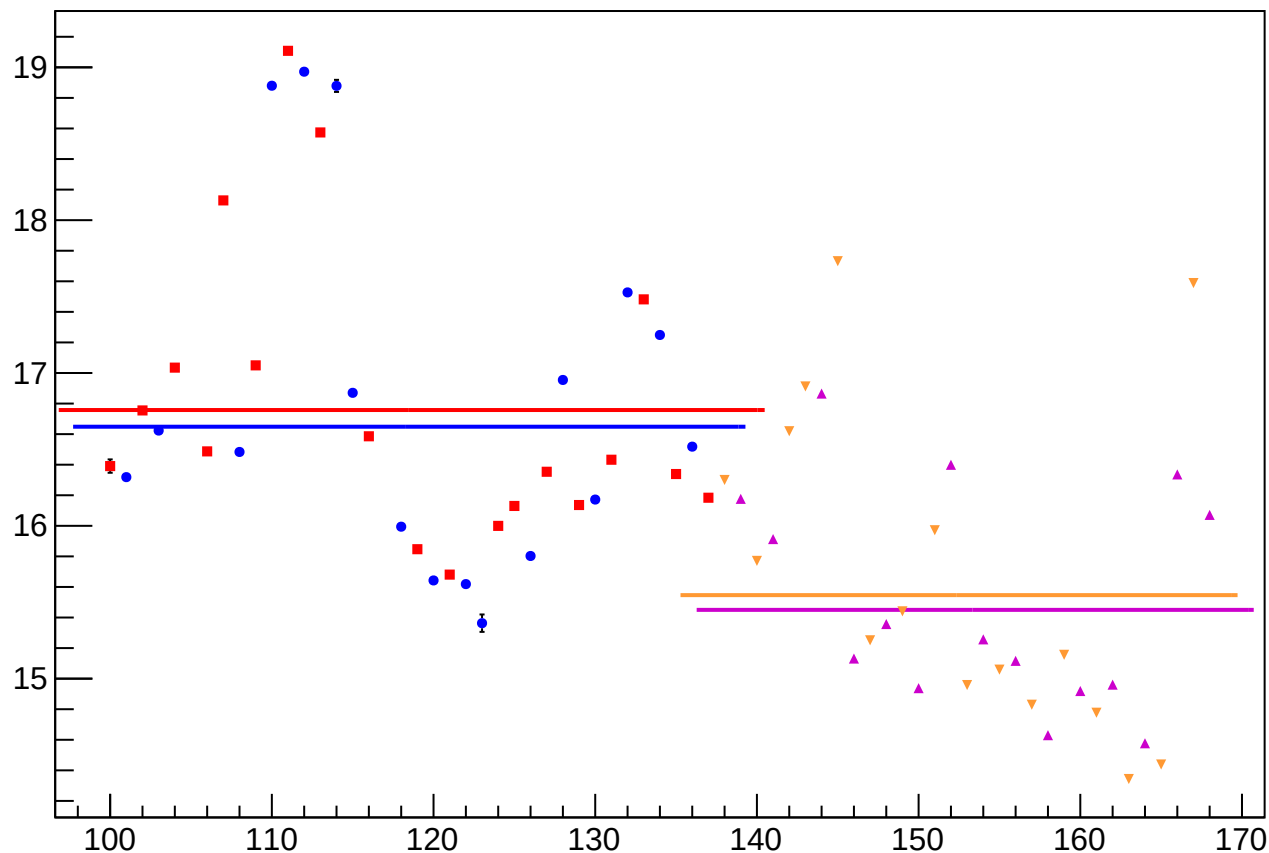
Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35

In: -1.726 $\pm$ 3.701 χ^2 /NDF:26.0/31

Out: -0.848 $\pm$ 3.668 χ^2 /NDF:24.3/34

All: -1.283 $\pm$ 2.605 χ^2 /NDF: 50.3/66

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: 15.547 $\pm$ 0.003 χ^2 /NDF: 92462.3/15

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.450 $\pm$ 0.003 χ^2 /NDF: 44319.8/14

Left: 15.498 $\pm$ 0.002 χ^2 /NDF: 137236.2/30

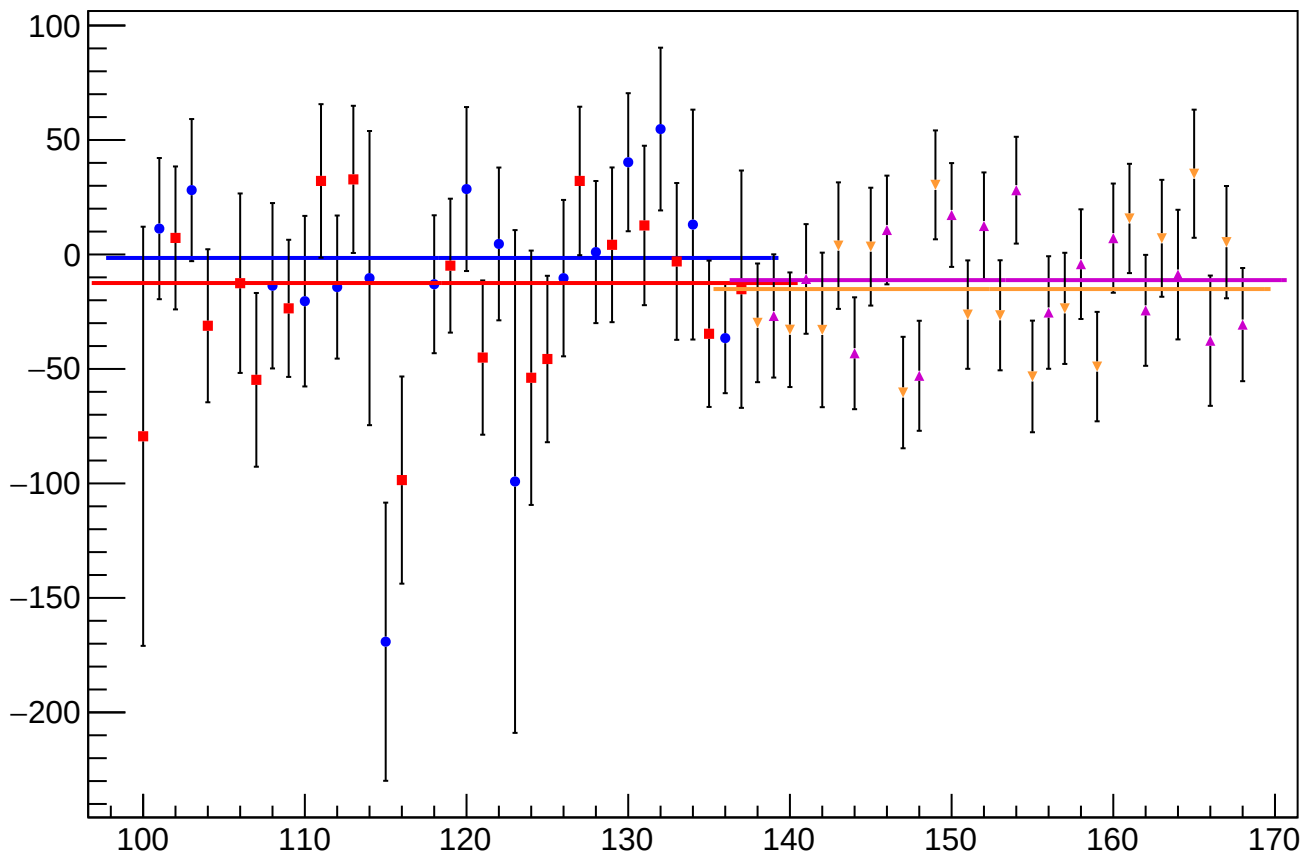
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.848 $\pm$ 0.003 χ^2 /NDF: 133381.9/31

Out: 15.960 $\pm$ 0.003 χ^2 /NDF: 181441.8/34

All: 15.904 $\pm$ 0.002 χ^2 /NDF: 315746.0/66

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: -15.108 ± 6.310 χ^2/NDF : 20.6/15

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -11.204 ± 6.338 χ^2/NDF : 14.1/14

Left: -13.165 ± 4.472 χ^2/NDF : 34.9/30

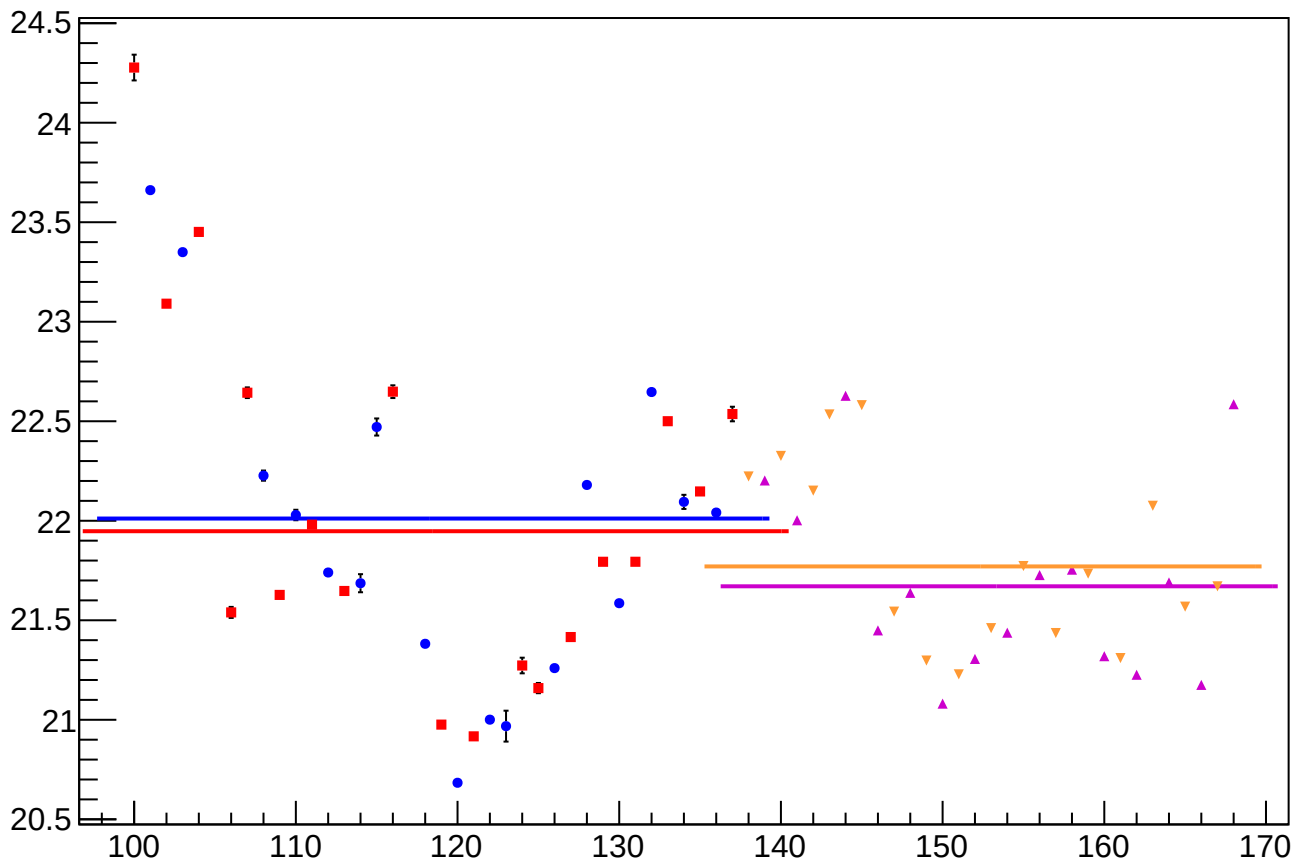
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -7.737 ± 5.078 χ^2/NDF : 32.6/31

Out: -14.130 ± 5.003 χ^2/NDF : 36.3/34

All: -10.981 ± 3.564 χ^2/NDF : 69.7/66

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011 ± 0.006 $\chi^2/\text{NDF}: 17546.9/16$

Left Out: 21.771 ± 0.004 $\chi^2/\text{NDF}: 9255.2/15$

Right Out: 21.947 ± 0.006 $\chi^2/\text{NDF}: 16592.7/18$

Left In: 21.671 ± 0.004 $\chi^2/\text{NDF}: 10940.0/14$

Left: 21.721 ± 0.003 $\chi^2/\text{NDF}: 20444.5/30$

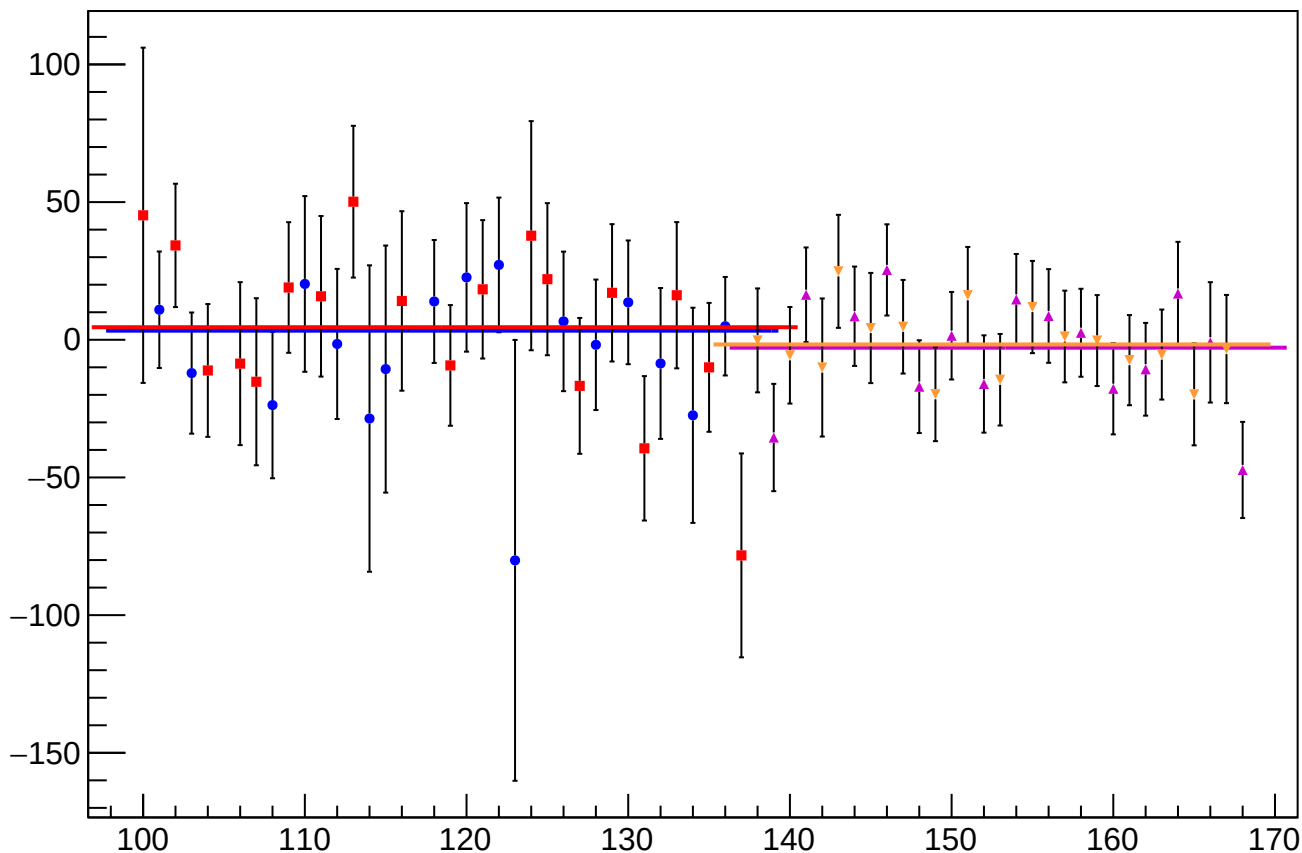
Right: 21.978 ± 0.004 $\chi^2/\text{NDF}: 34197.9/35$

In: 21.793 ± 0.004 $\chi^2/\text{NDF}: 30554.0/31$

Out: 21.836 ± 0.004 $\chi^2/\text{NDF}: 26431.7/34$

All: 21.815 ± 0.003 $\chi^2/\text{NDF}: 57060.5/66$

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: -1.700 $\pm$ 4.467 χ^2 /NDF:6.7/15

Right Out: 4.561 $\pm$ 6.244 χ^2 /NDF: 17.7/18

Left In: -2.868 $\pm$ 4.479 χ^2 /NDF:19.0/14

Left: -2.282 $\pm$ 3.163 χ^2 /NDF: 25.7/30

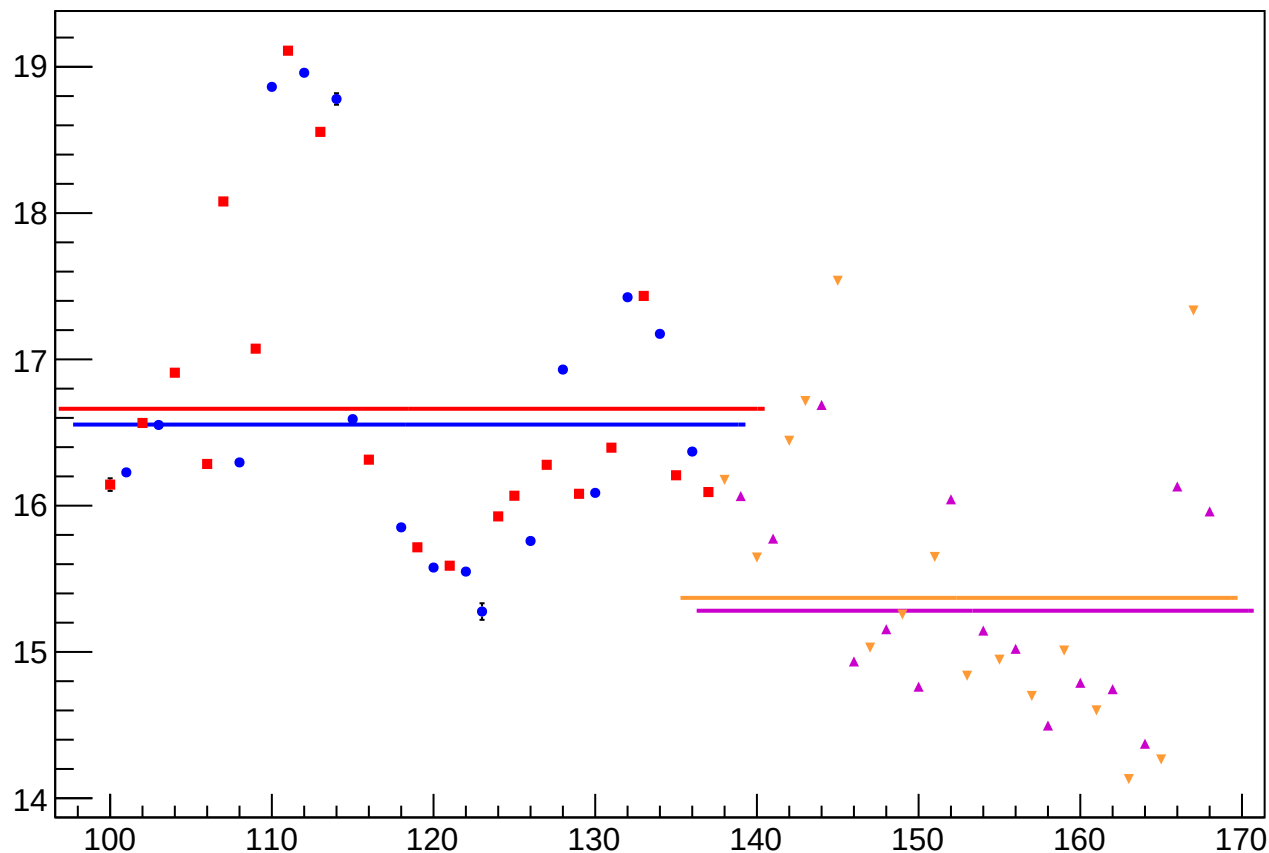
Right: 3.953 $\pm$ 4.465 χ^2 /NDF: 24.0/35

In: -0.830 $\pm$ 3.667 χ^2 /NDF:25.9/31

Out: 0.420 $\pm$ 3.633 χ^2 /NDF:25.1/34

All: -0.199 $\pm$ 2.581 χ^2 /NDF: 51.0/66

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 ± 0.005 χ^2/NDF : 44475.2/16

Left Out: 15.370 ± 0.003 χ^2/NDF : 91801.6/15

Right Out: 16.662 ± 0.004 χ^2/NDF : 43063.6/18

Left In: 15.282 ± 0.003 χ^2/NDF : 43856.8/14

Left: 15.326 ± 0.002 χ^2/NDF : 136044.9/30

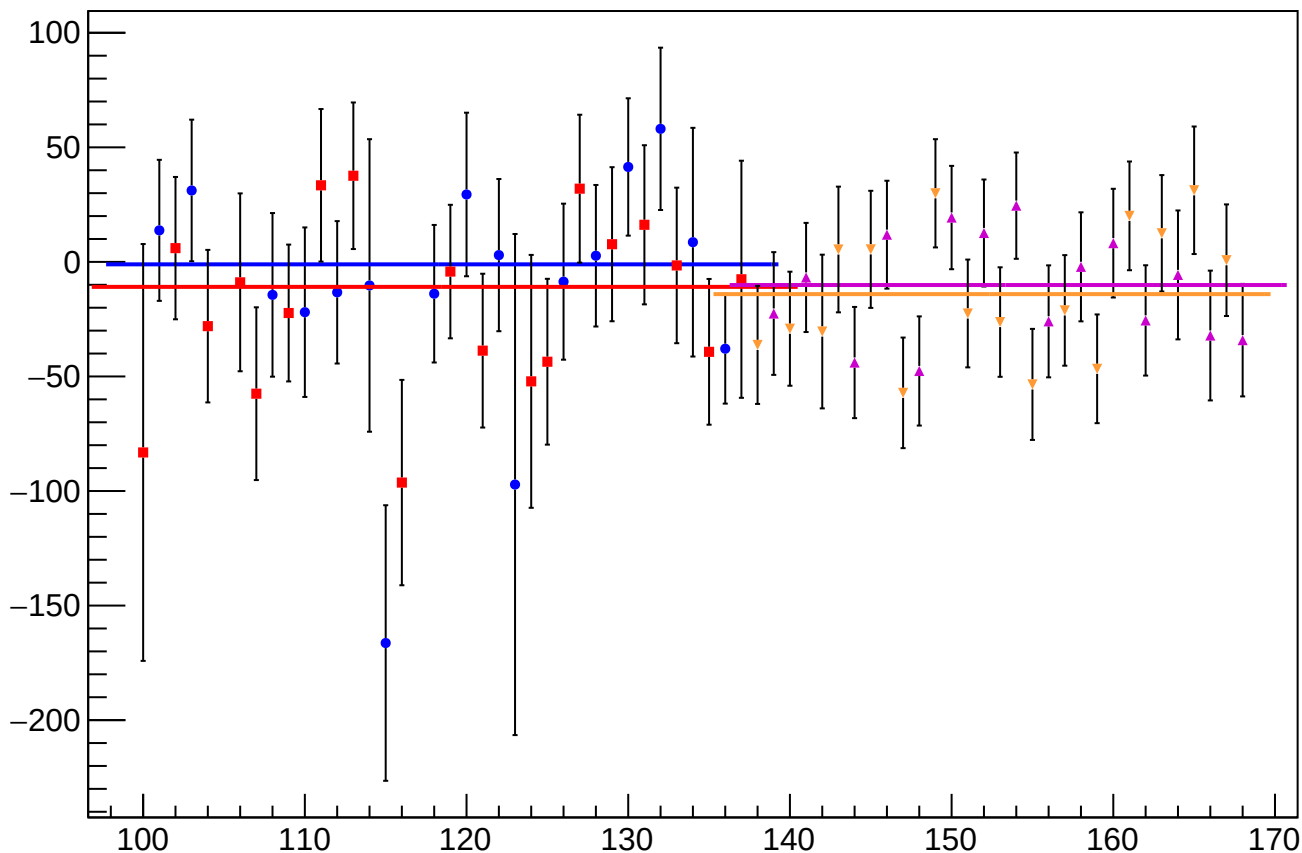
Right: 16.610 ± 0.003 χ^2/NDF : 87830.7/35

In: 15.701 ± 0.003 χ^2/NDF : 141549.5/31

Out: 15.807 ± 0.003 χ^2/NDF : 191566.1/34

All: 15.755 ± 0.002 χ^2/NDF : 333962.5/66

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: -14.068 ± 6.270 χ^2/NDF : 20.3/15

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -10.093 ± 6.300 χ^2/NDF : 13.5/14

Left: -12.091 ± 4.444 χ^2/NDF : 34.0/30

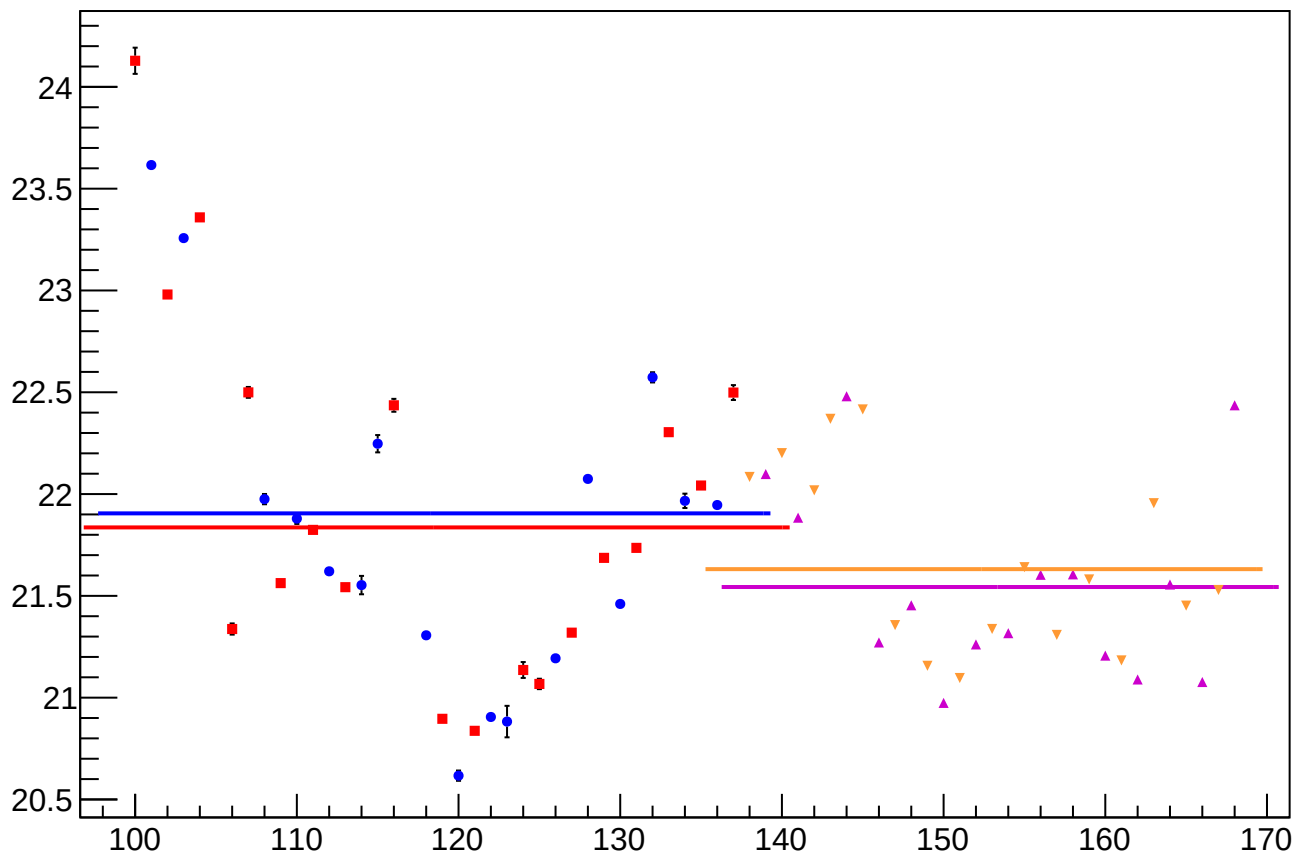
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -6.866 ± 5.050 χ^2/NDF : 32.7/31

Out: -12.894 ± 4.974 χ^2/NDF : 36.6/34

All: -9.926 ± 3.544 χ^2/NDF : 70.1/66

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: 21.631 $\pm$ 0.004 χ^2 /NDF: 9195.5/15

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.543 $\pm$ 0.004 χ^2 /NDF: 10626.8/14

Left: 21.588 $\pm$ 0.003 χ^2 /NDF: 20017.4/30

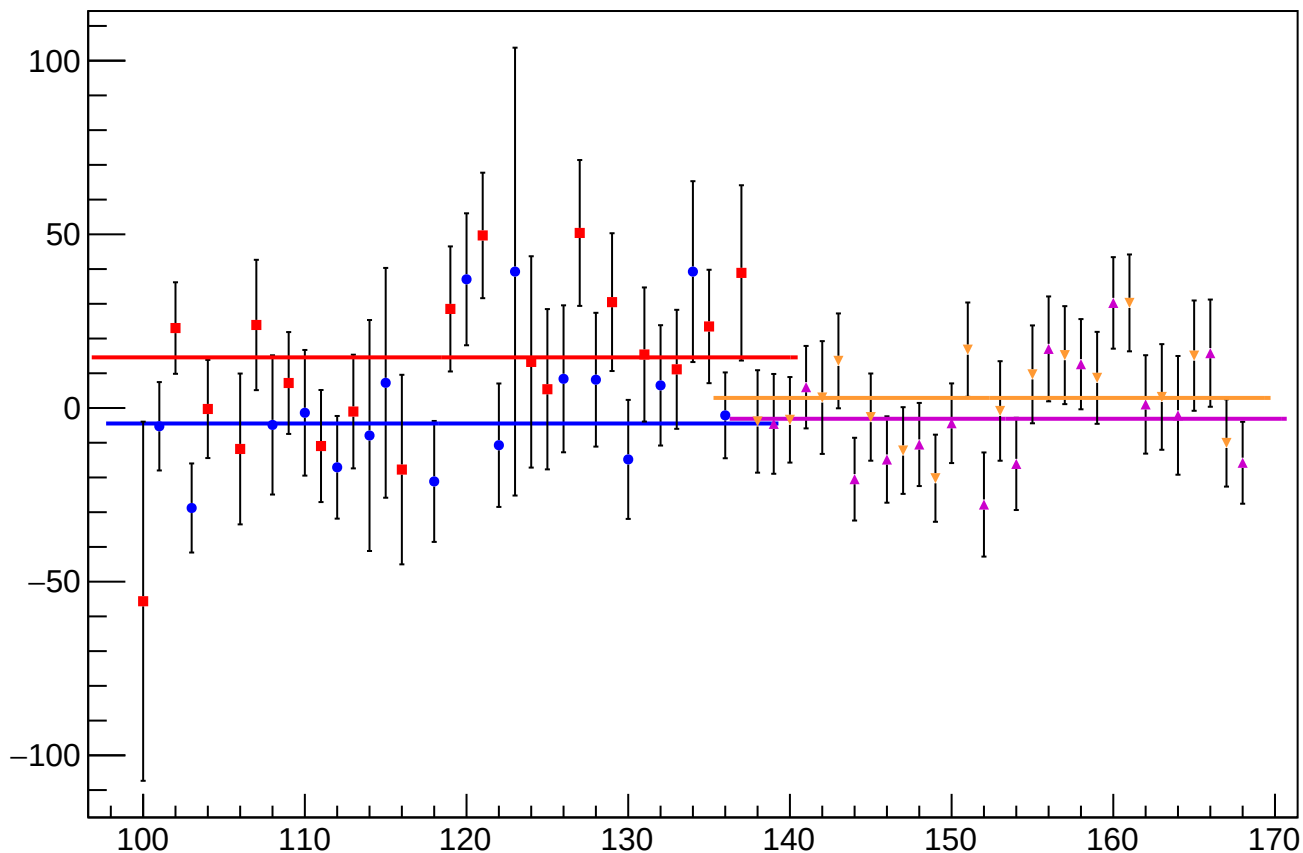
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.673 $\pm$ 0.004 χ^2 /NDF: 30778.4/31

Out: 21.707 $\pm$ 0.004 χ^2 /NDF: 26239.0/34

All: 21.690 $\pm$ 0.003 χ^2 /NDF: 57064.5/66

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: 2.903 ± 3.424 $\chi^2/\text{NDF}: 13.9/15$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -3.102 ± 3.409 $\chi^2/\text{NDF}: 20.1/14$

Left: -0.112 ± 2.416 $\chi^2/\text{NDF}: 35.6/30$

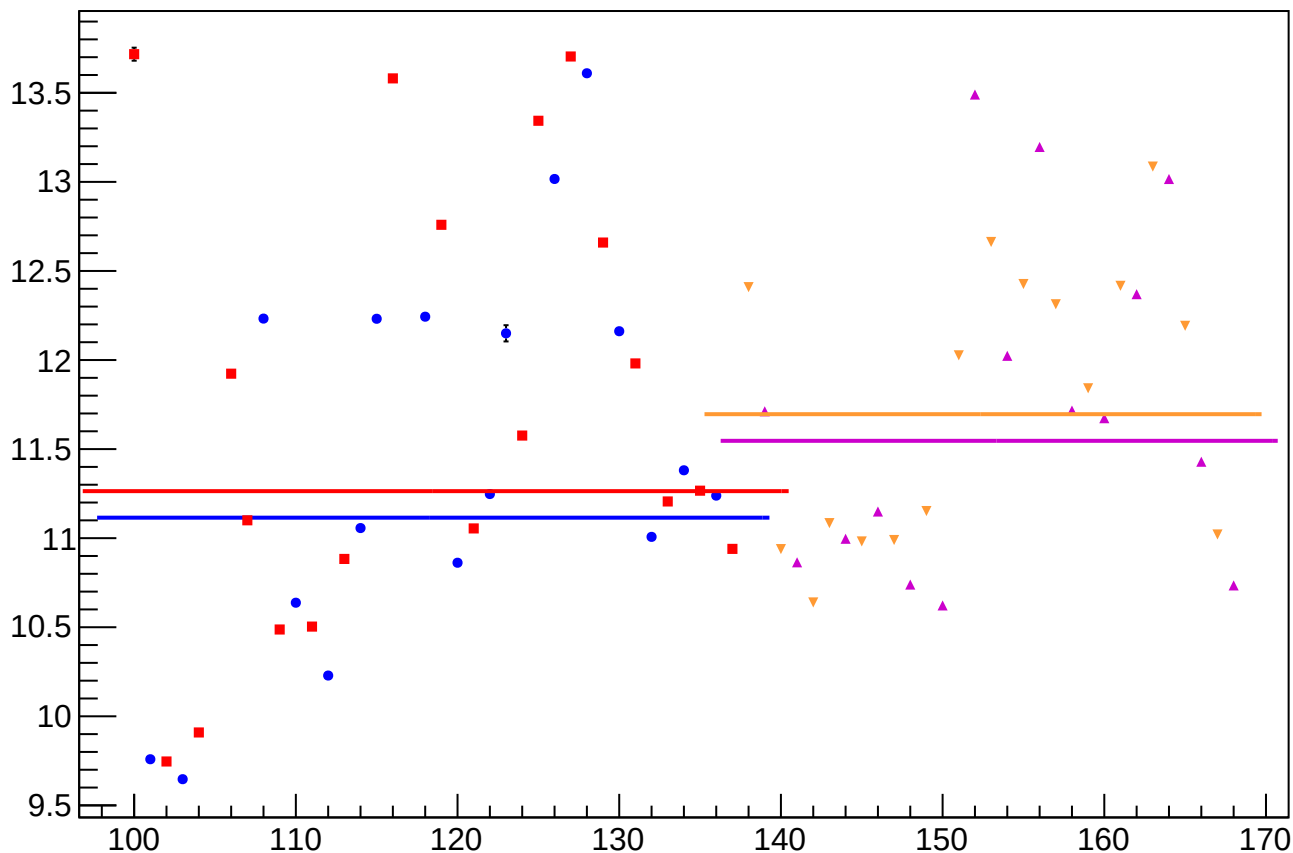
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -3.622 ± 2.678 $\chi^2/\text{NDF}: 35.3/31$

Out: 7.480 ± 2.670 $\chi^2/\text{NDF}: 38.0/34$

All: 1.947 ± 1.891 $\chi^2/\text{NDF}: 82.0/66$

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: 11.696 $\pm$ 0.002 χ^2 /NDF: 90872.0/15

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.546 $\pm$ 0.002 χ^2 /NDF: 126971.6/14

Left: 11.621 $\pm$ 0.002 χ^2 /NDF: 219759.4/30

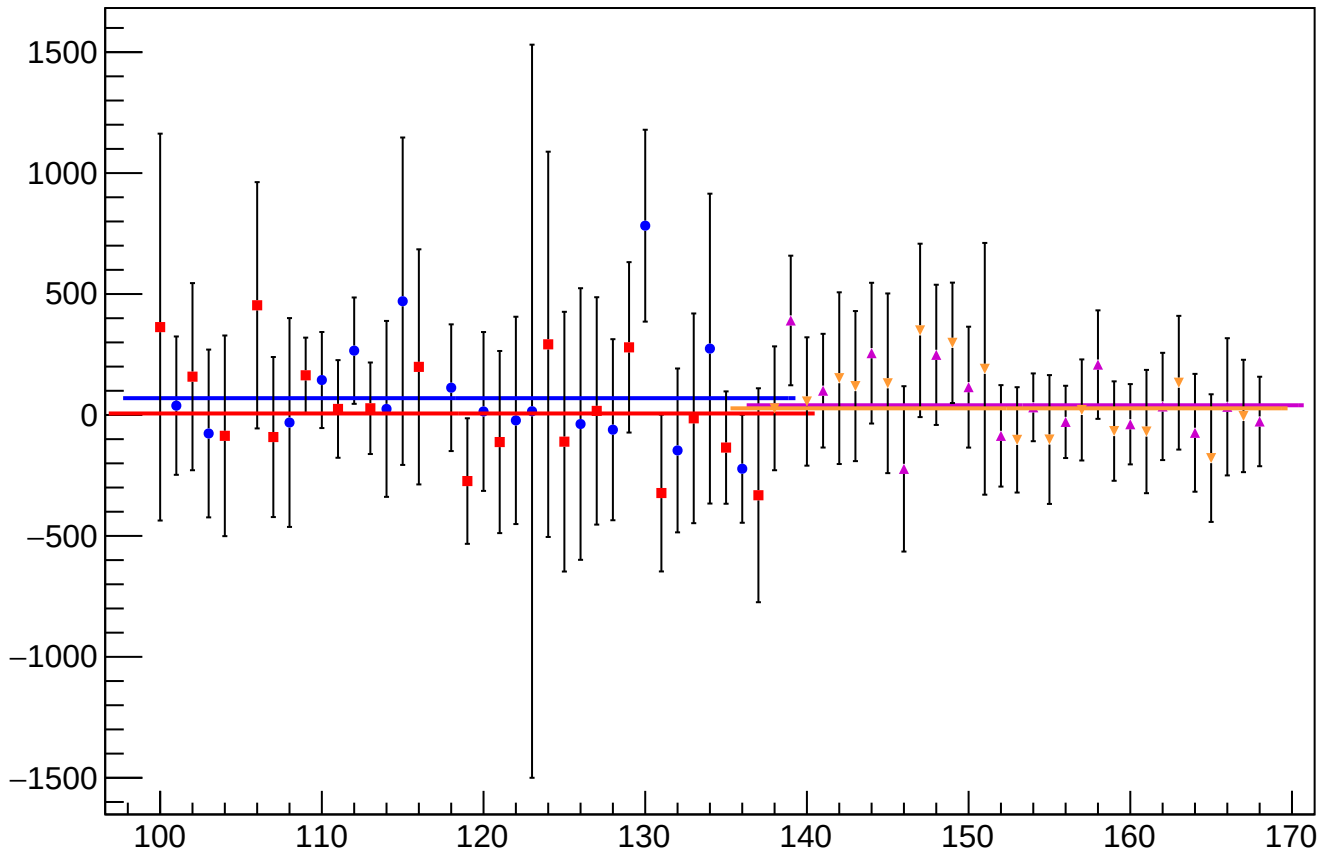
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.381 $\pm$ 0.002 χ^2 /NDF: 272289.2/31

Out: 11.527 $\pm$ 0.002 χ^2 /NDF: 250837.7/34

All: 11.454 $\pm$ 0.001 χ^2 /NDF: 526080.9/66

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 27.483+/-66.550 χ^2/NDF : 4.1/15

Right Out: 6.194+/-70.182 χ^2/NDF : 6.5/18

Left In: 40.131+/-54.734 χ^2/NDF : 5.2/14

Left: 35.028+/-42.273 χ^2/NDF : 9.4/30

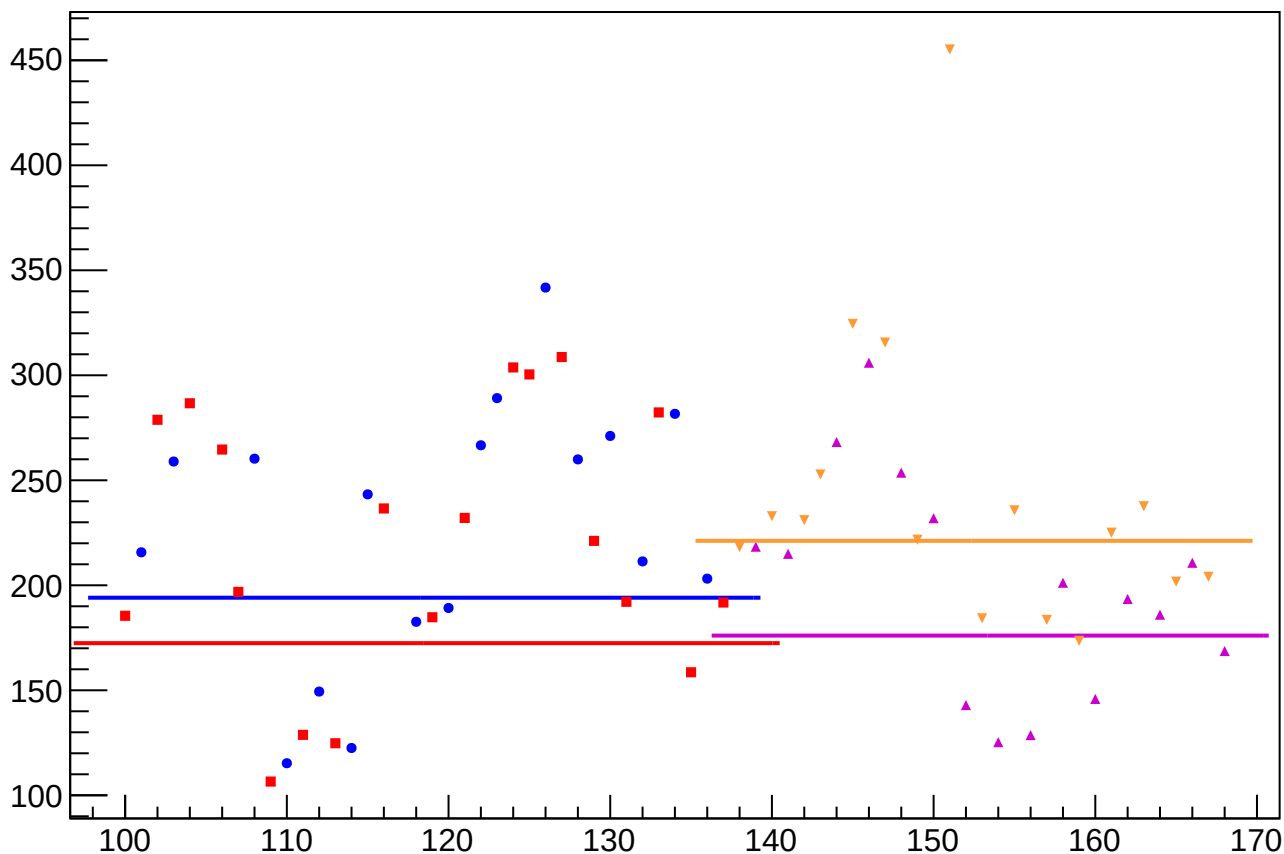
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 49.609+/-45.033 χ^2/NDF : 12.6/31

Out: 17.404+/-48.291 χ^2/NDF : 10.6/34

All: 34.629+/-32.935 χ^2/NDF : 23.5/66

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082+/-0.056 χ^2/NDF : 1005395.7/16

Left Out: 221.166+/-0.047 χ^2/NDF : 989312.3/15

Right Out: 172.452+/-0.050 χ^2/NDF : 1569463.1/18

Left In: 176.043+/-0.039 χ^2/NDF : 1491138.8/14

Left: 194.250+/-0.030 χ^2/NDF : 3028919.4/30

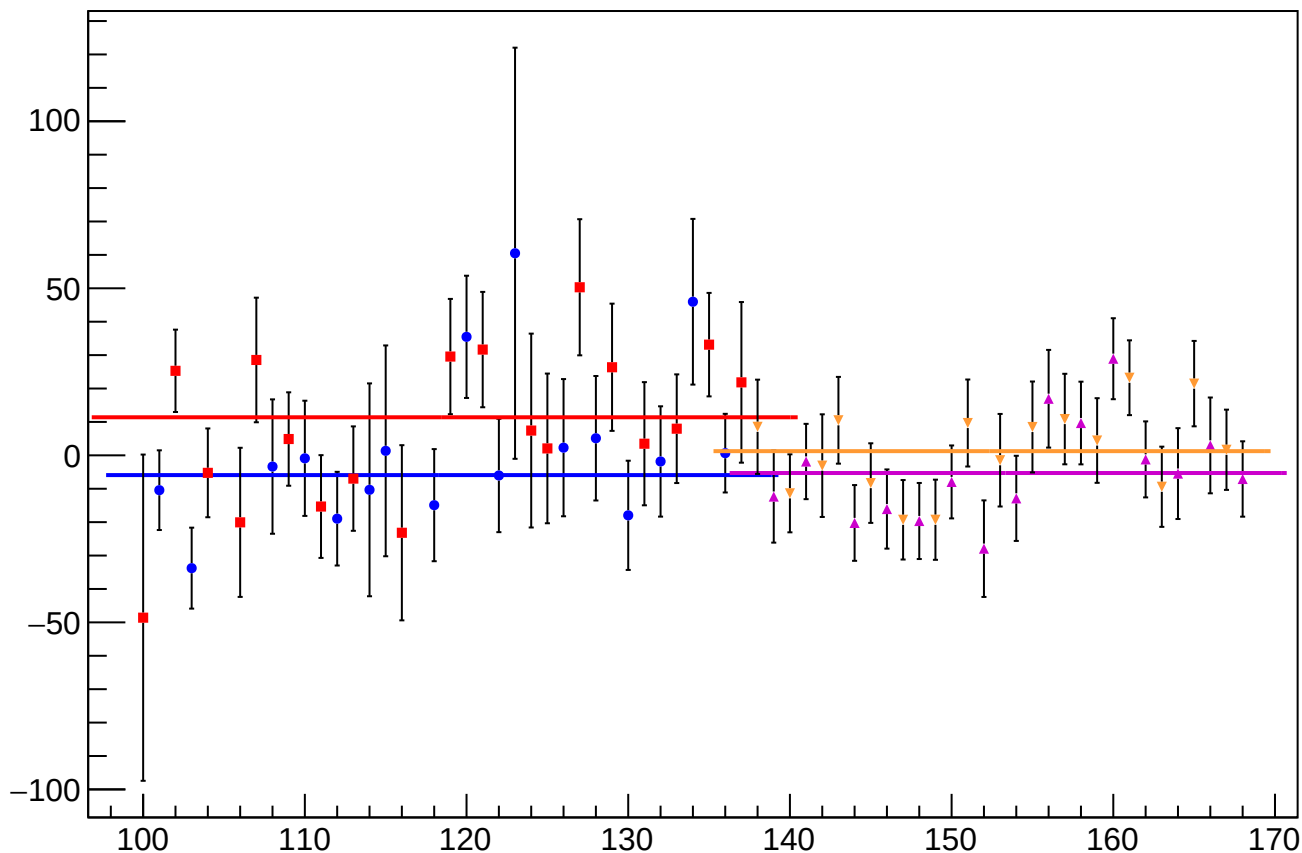
Right: 181.961+/-0.037 χ^2/NDF : 2658380.0/35

In: 181.870+/-0.032 χ^2/NDF : 2566713.1/31

Out: 198.102+/-0.034 χ^2/NDF : 3066145.5/34

All: 189.420+/-0.023 χ^2/NDF : 5753717.6/66

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: 1.252 ± 3.166 χ^2/NDF : 17.0/15

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.291 ± 3.179 χ^2/NDF : 19.6/14

Left: -2.006 ± 2.243 χ^2/NDF : 38.8/30

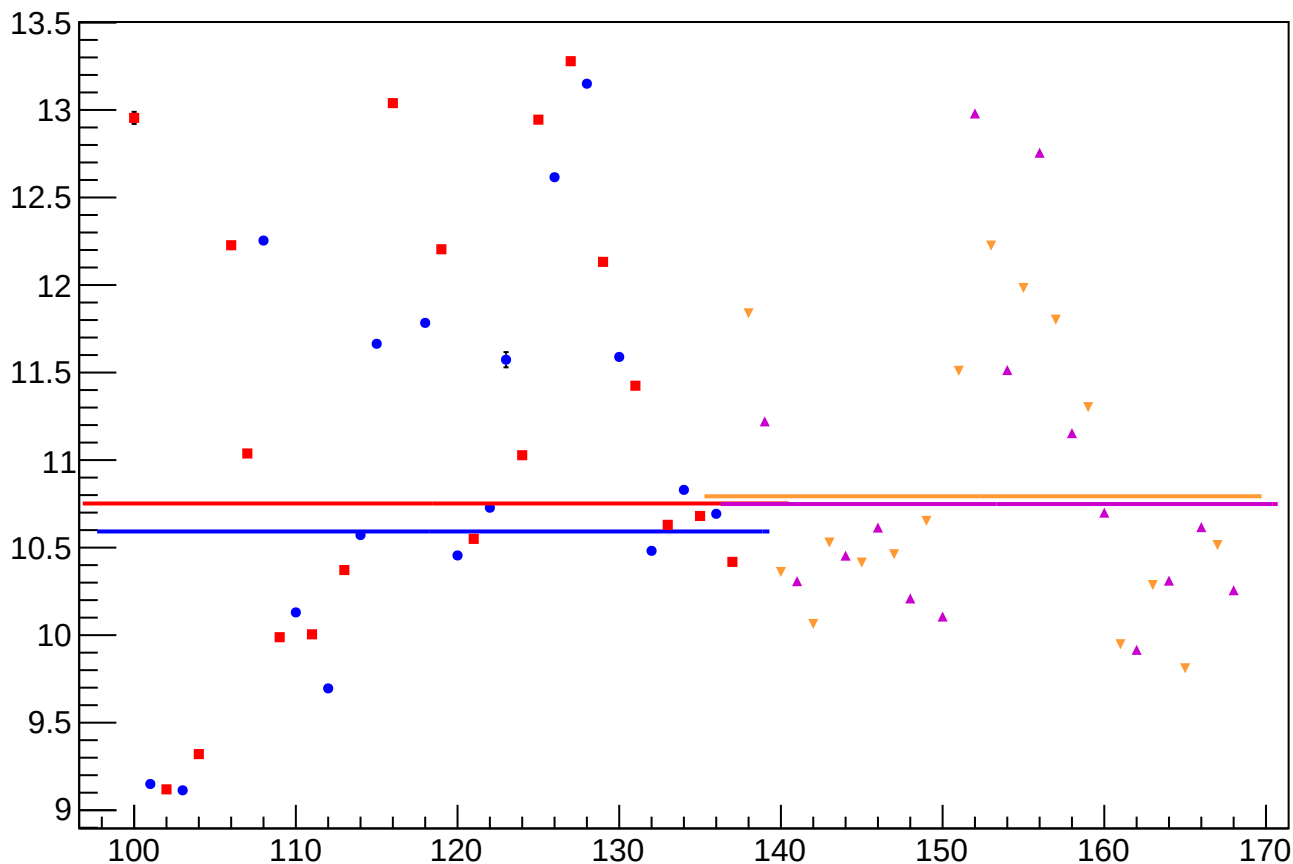
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.522 ± 2.520 χ^2/NDF : 38.5/31

Out: 5.065 ± 2.501 χ^2/NDF : 43.7/34

All: -0.189 ± 1.775 χ^2/NDF : 91.1/66

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: 10.793 $\pm$ 0.002 χ^2 /NDF:107786.2/15

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.749 $\pm$ 0.002 χ^2 /NDF:129896.6/14

Left: 10.771 $\pm$ 0.002 χ^2 /NDF: 237878.1/30

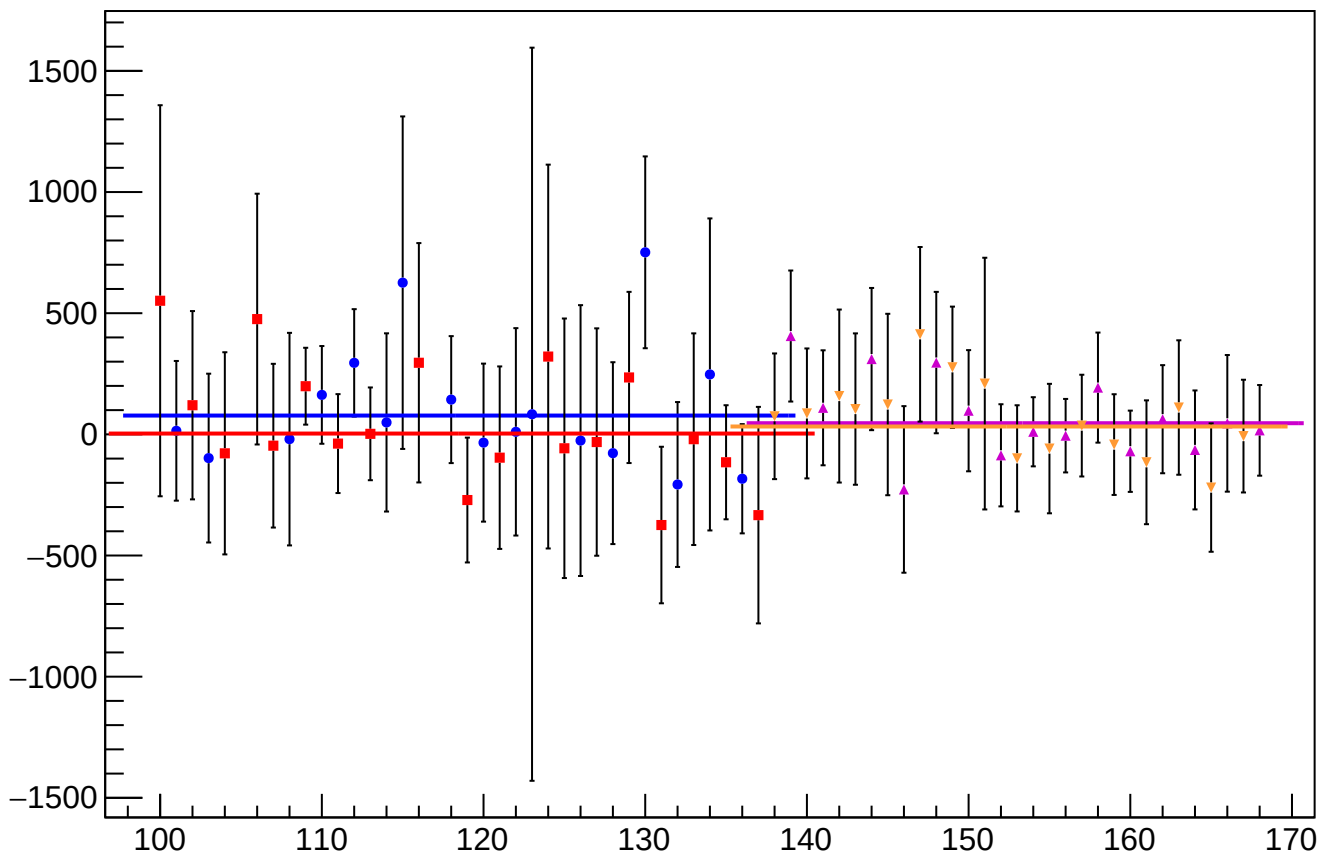
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.691 $\pm$ 0.002 χ^2 /NDF:292100.1/31

Out: 10.778 $\pm$ 0.002 χ^2 /NDF:284809.1/34

All: 10.735 $\pm$ 0.001 χ^2 /NDF: 578111.6/66

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: 32.441 $\pm$ 66.953 χ^2 /NDF:4.4/15

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 46.028 $\pm$ 55.288 χ^2 /NDF:5.8/14

Left: 40.520 $\pm$ 42.631 χ^2 /NDF: 10.2/30

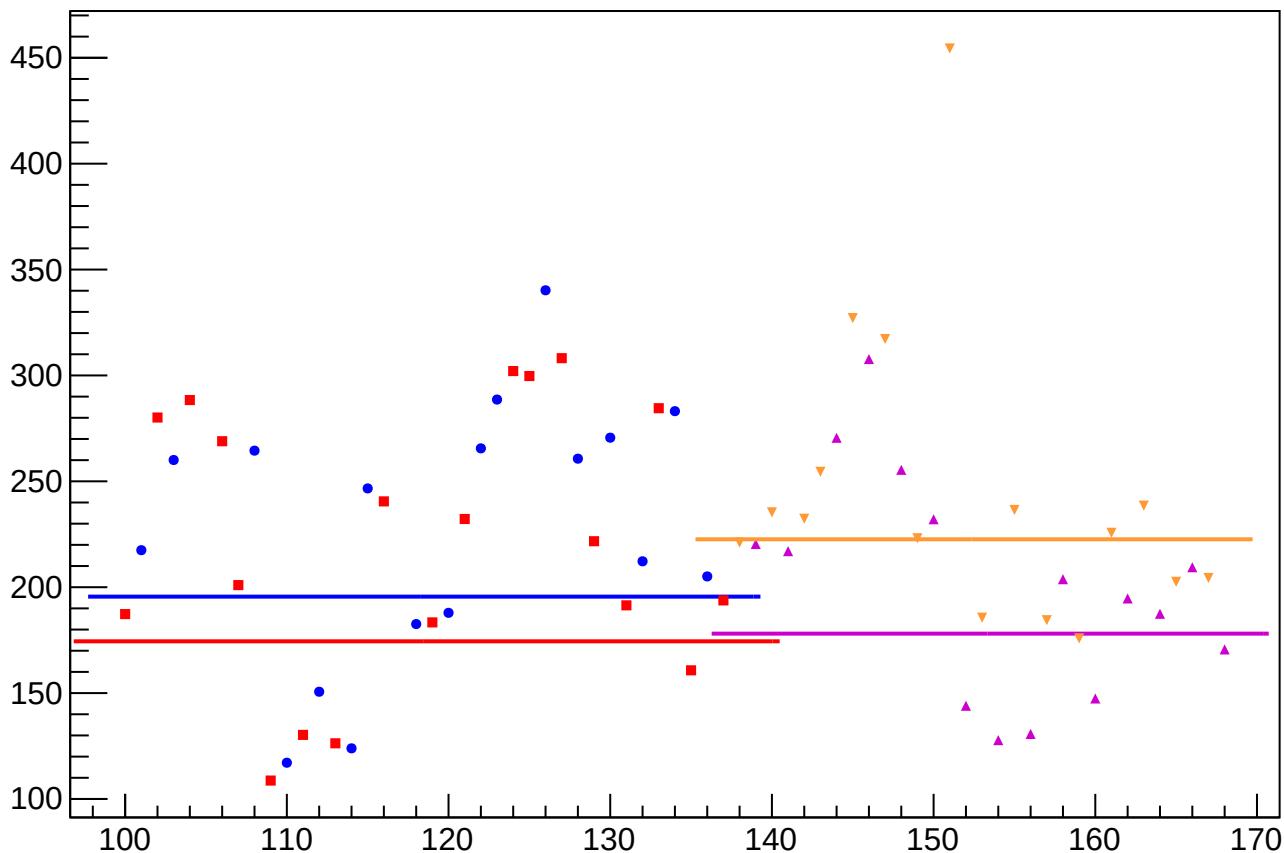
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 56.273 $\pm$ 45.437 χ^2 /NDF:13.4/31

Out: 18.698 $\pm$ 48.664 χ^2 /NDF:11.9/34

All: 38.772 $\pm$ 33.211 χ^2 /NDF: 25.6/66

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: 222.630 $\pm$ 0.047 χ^2 /NDF: 979519.5/15

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 178.075 $\pm$ 0.039 χ^2 /NDF: 1450096.3/14

Left: 196.139 $\pm$ 0.030 χ^2 /NDF: 2956212.3/30

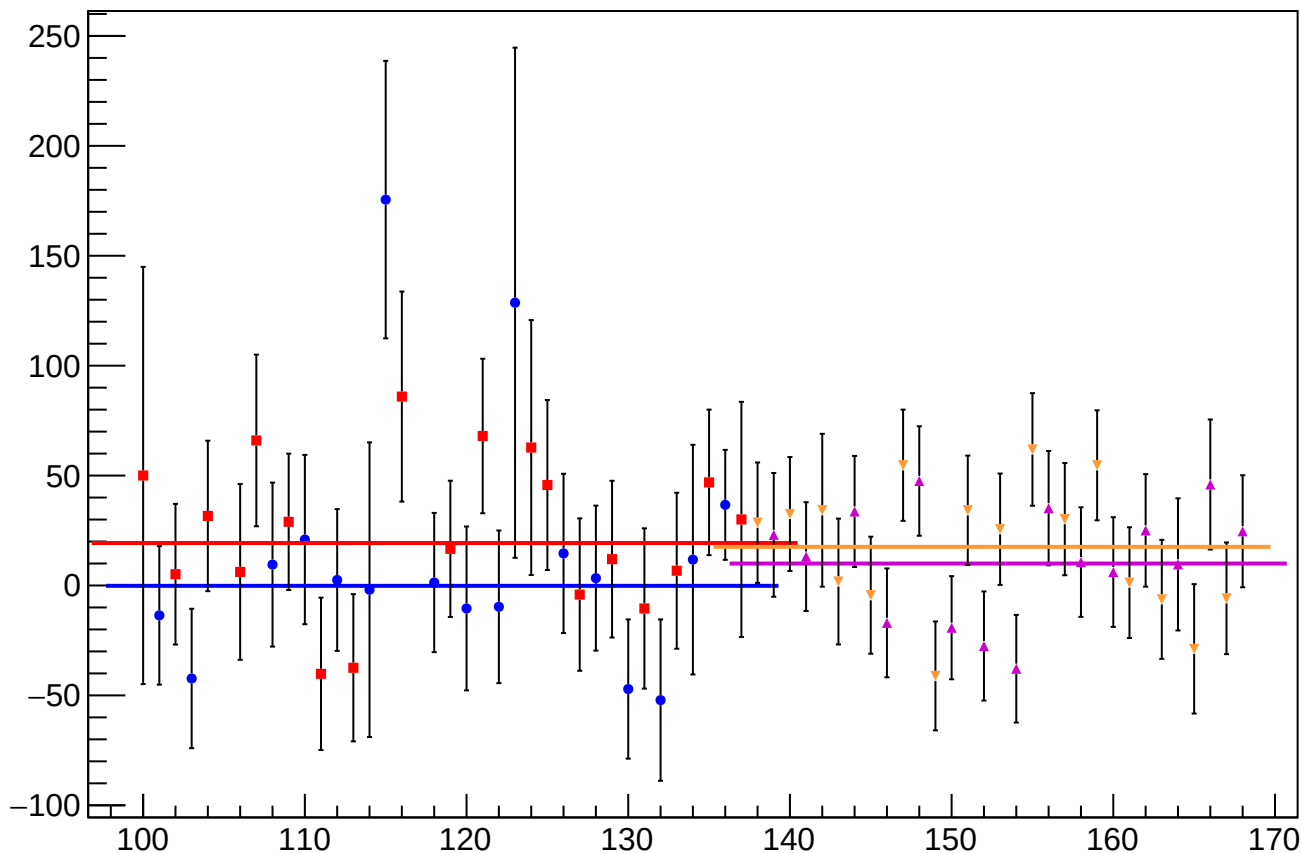
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 183.748 $\pm$ 0.032 χ^2 /NDF: 2494896.5/31

Out: 199.903 $\pm$ 0.034 χ^2 /NDF: 2996703.0/34

All: 191.272 $\pm$ 0.023 χ^2 /NDF: 5609349.9/66

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 $\chi^2/\text{NDF}: 18.1/16$

Left Out: 17.579 ± 6.602 $\chi^2/\text{NDF}: 20.0/15$

Right Out: 19.316 ± 8.554 $\chi^2/\text{NDF}: 14.8/18$

Left In: 9.981 ± 6.619 $\chi^2/\text{NDF}: 15.3/14$

Left: 13.790 ± 4.674 $\chi^2/\text{NDF}: 36.0/30$

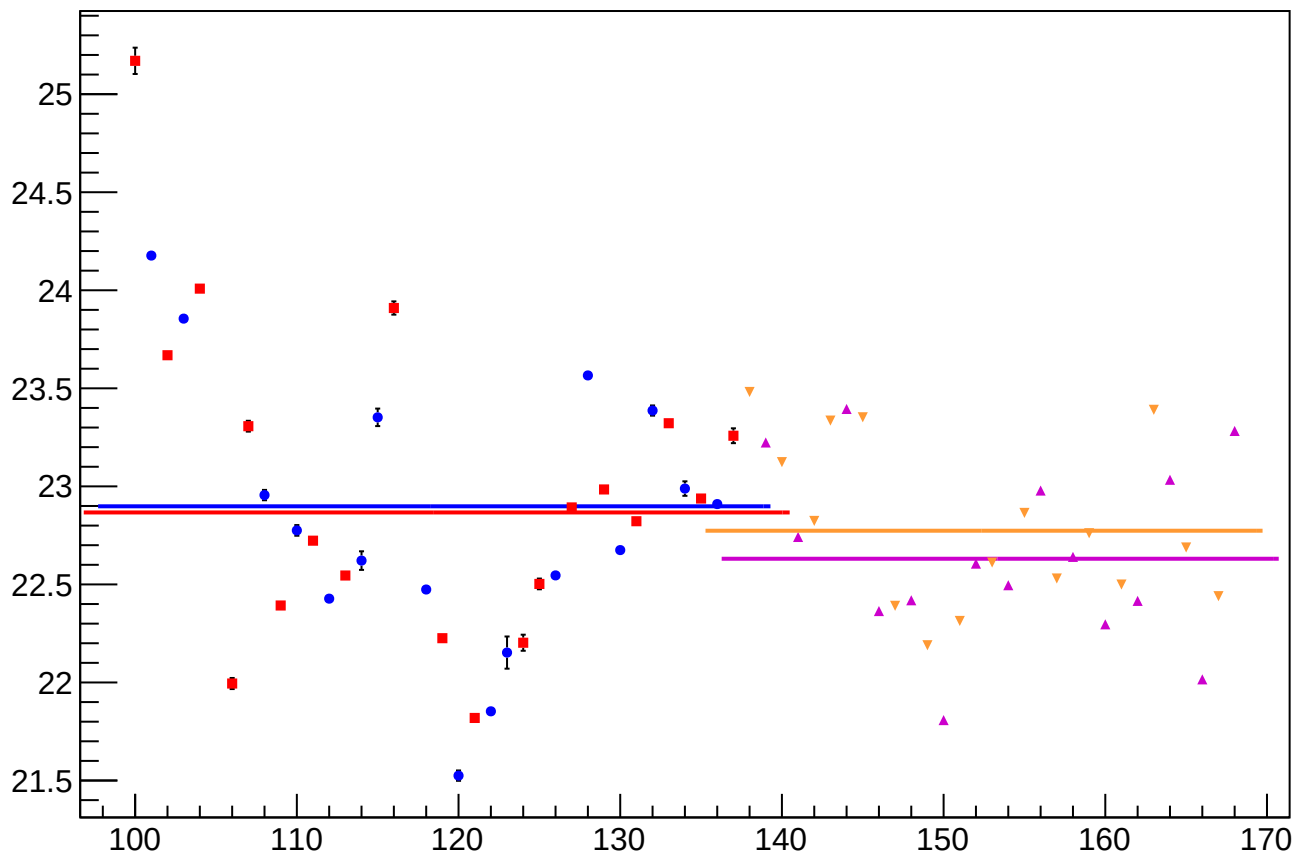
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 6.331 ± 5.295 $\chi^2/\text{NDF}: 34.3/31$

Out: 18.228 ± 5.226 $\chi^2/\text{NDF}: 34.8/34$

All: 12.358 ± 3.720 $\chi^2/\text{NDF}: 71.6/66$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 ± 0.006 $\chi^2/\text{NDF}: 12143.3/16$

Left Out: 22.774 ± 0.005 $\chi^2/\text{NDF}: 7598.0/15$

Right Out: 22.867 ± 0.006 $\chi^2/\text{NDF}: 11048.4/18$

Left In: 22.631 ± 0.005 $\chi^2/\text{NDF}: 9048.1/14$

Left: 22.703 ± 0.003 $\chi^2/\text{NDF}: 17113.5/30$

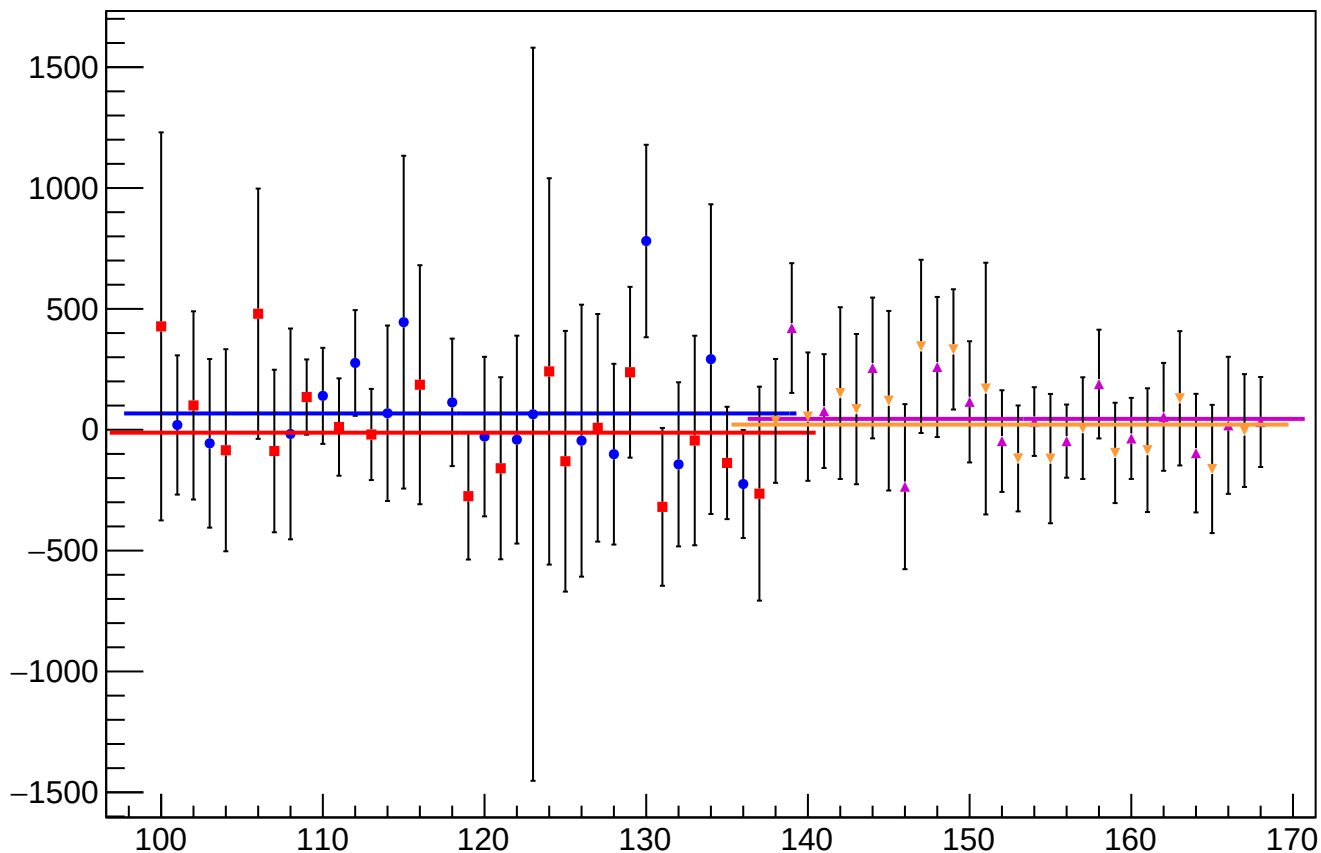
Right: 22.882 ± 0.004 $\chi^2/\text{NDF}: 23204.7/35$

In: 22.727 ± 0.004 $\chi^2/\text{NDF}: 22366.5/31$

Out: 22.809 ± 0.004 $\chi^2/\text{NDF}: 18795.1/34$

All: 22.768 ± 0.003 $\chi^2/\text{NDF}: 41401.2/66$

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: 21.352 $\pm$ 66.825 χ^2 /NDF:4.6/15

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 44.944 $\pm$ 55.124 χ^2 /NDF:5.4/14

Left: 35.391 $\pm$ 42.523 χ^2 /NDF: 10.0/30

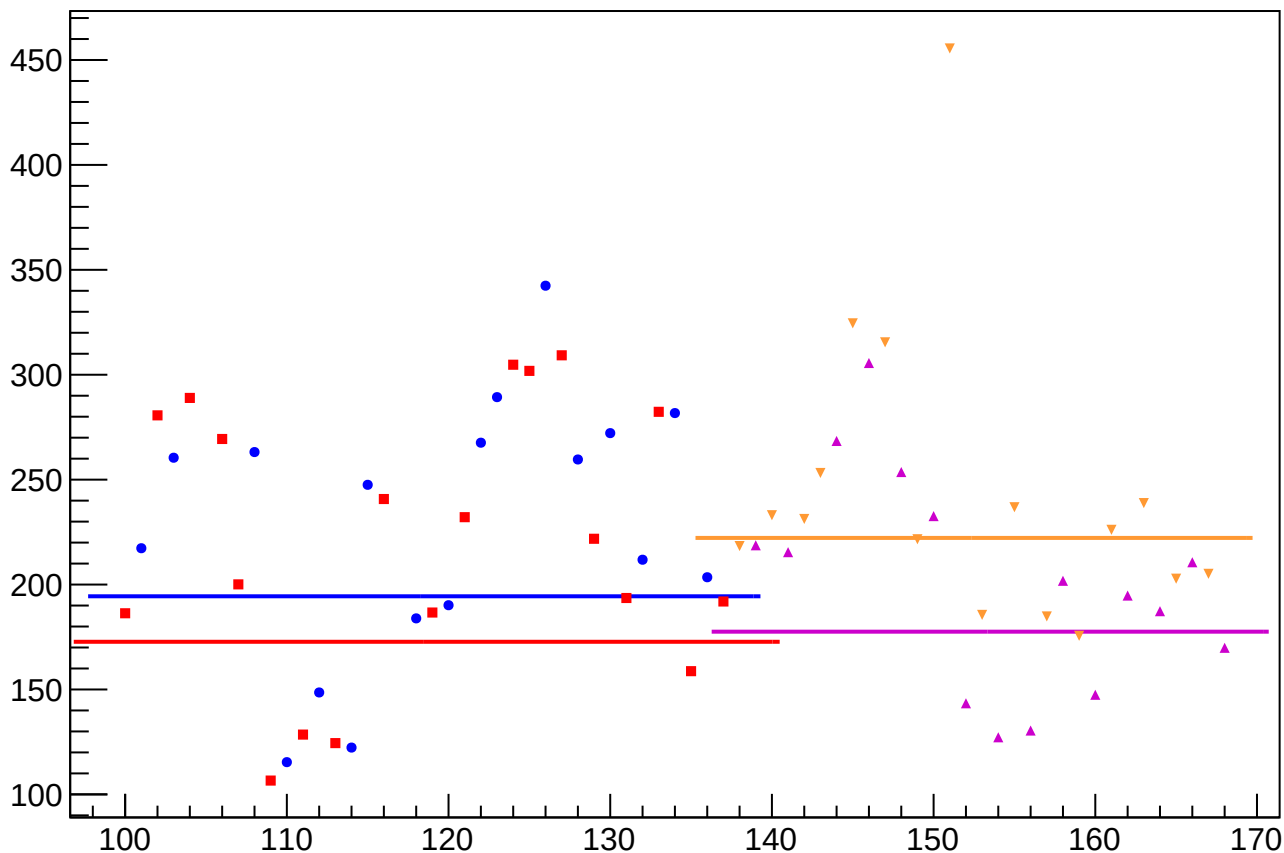
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 52.263 $\pm$ 45.282 χ^2 /NDF:12.8/31

Out: 5.478 $\pm$ 48.452 χ^2 /NDF:10.4/34

All: 30.451 $\pm$ 33.083 χ^2 /NDF: 23.7/66

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: 222.230 $\pm$ 0.047 χ^2 /NDF: 968581.1/15

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 177.546 $\pm$ 0.039 χ^2 /NDF: 1439745.5/14

Left: 195.640 $\pm$ 0.030 χ^2 /NDF: 2940457.8/30

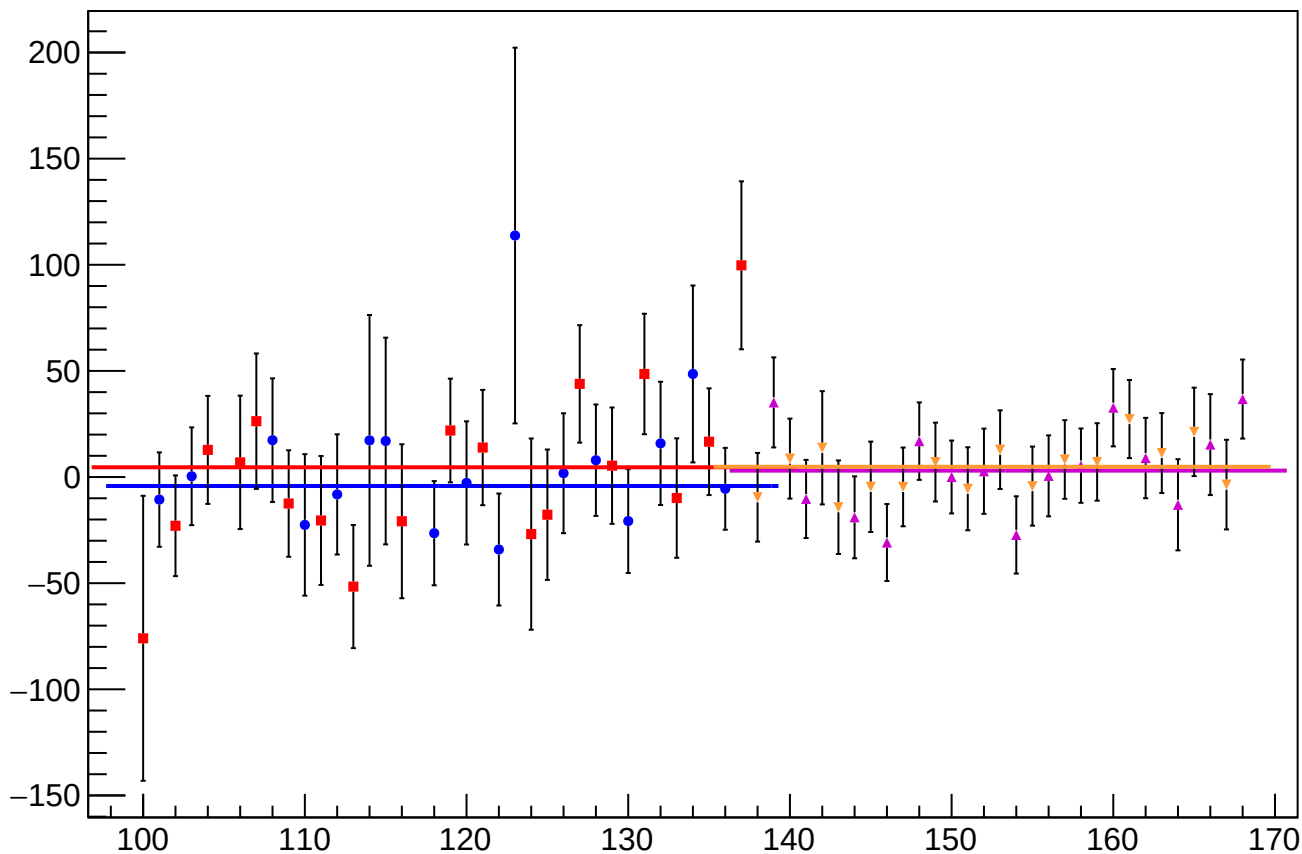
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 183.031 $\pm$ 0.032 χ^2 /NDF: 2520533.7/31

Out: 198.753 $\pm$ 0.034 χ^2 /NDF: 3085810.6/34

All: 190.361 $\pm$ 0.023 χ^2 /NDF: 5718752.4/66

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223+/-6.871 χ^2/NDF : 8.0/16

Left Out: 4.839+/-4.924 χ^2/NDF :5.0/15

Right Out: 4.599+/-6.725 χ^2/NDF : 21.1/18

Left In: 3.027+/-4.913 χ^2/NDF :17.9/14

Left: 3.931+/-3.478 χ^2/NDF : 22.9/30

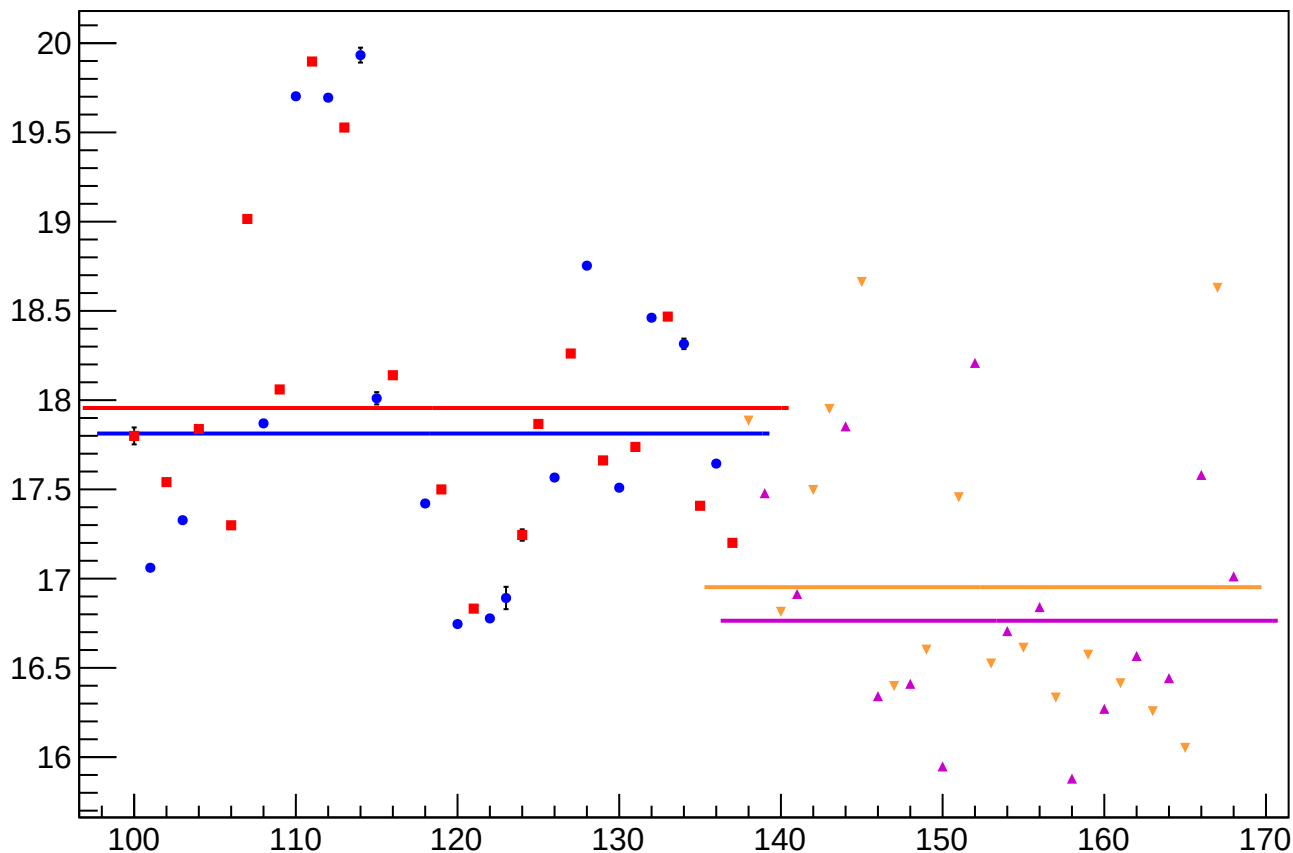
Right: 0.283+/-4.806 χ^2/NDF : 29.9/35

In: 0.575+/-3.996 χ^2/NDF :26.6/31

Out: 4.756+/-3.973 χ^2/NDF :26.1/34

All: 2.678+/-2.818 χ^2/NDF : 53.3/66

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: 16.952 $\pm$ 0.003 χ^2 /NDF:51378.7/15

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.764 $\pm$ 0.003 χ^2 /NDF:35497.4/14

Left: 16.858 $\pm$ 0.002 χ^2 /NDF: 88337.0/30

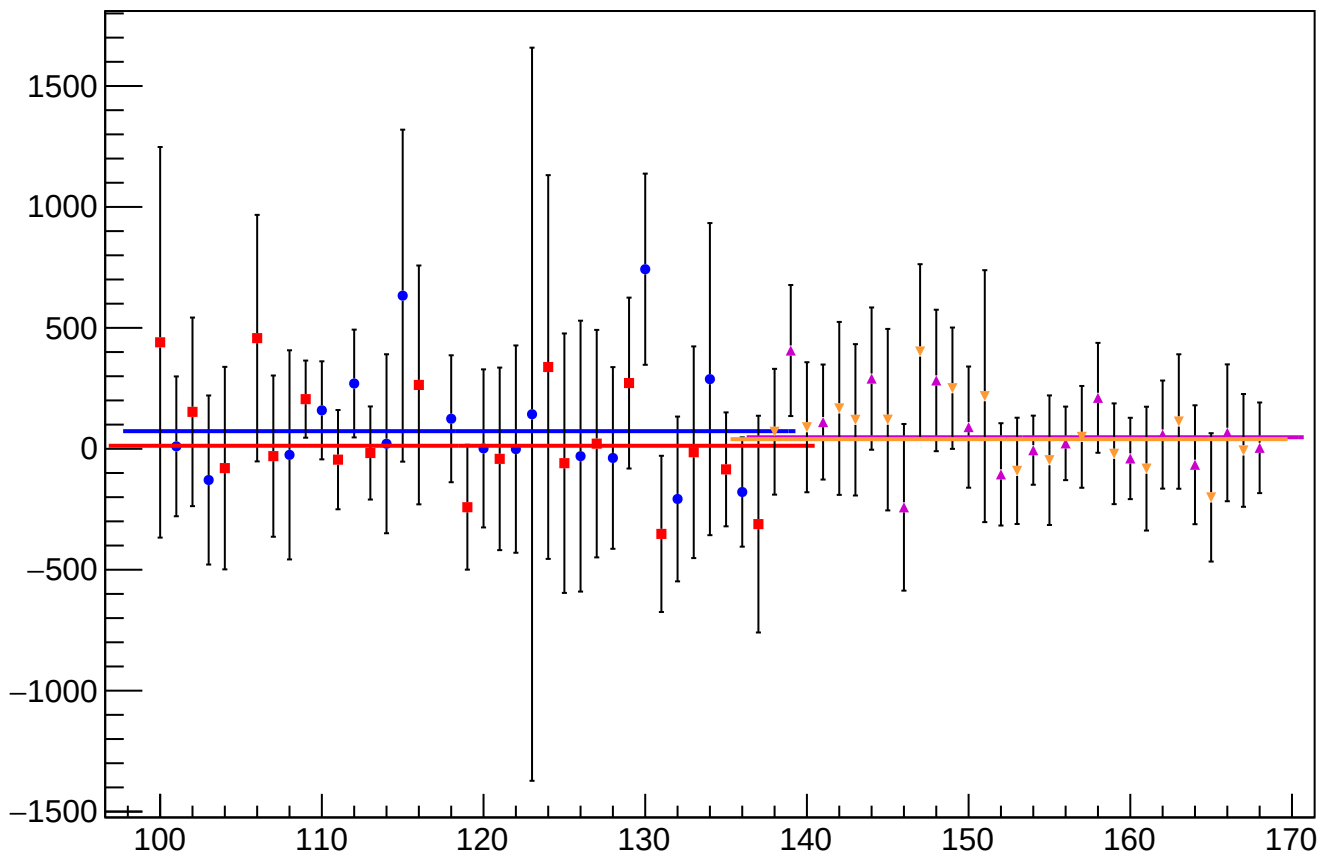
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.119 $\pm$ 0.003 χ^2 /NDF:98370.3/31

Out: 17.302 $\pm$ 0.003 χ^2 /NDF:105836.3/34

All: 17.211 $\pm$ 0.002 χ^2 /NDF: 206328.2/66

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: 39.884+/-67.103 χ^2/NDF : 3.8/15

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 47.781+/-55.400 χ^2/NDF : 5.6/14

Left: 44.580+/-42.722 χ^2/NDF : 9.5/30

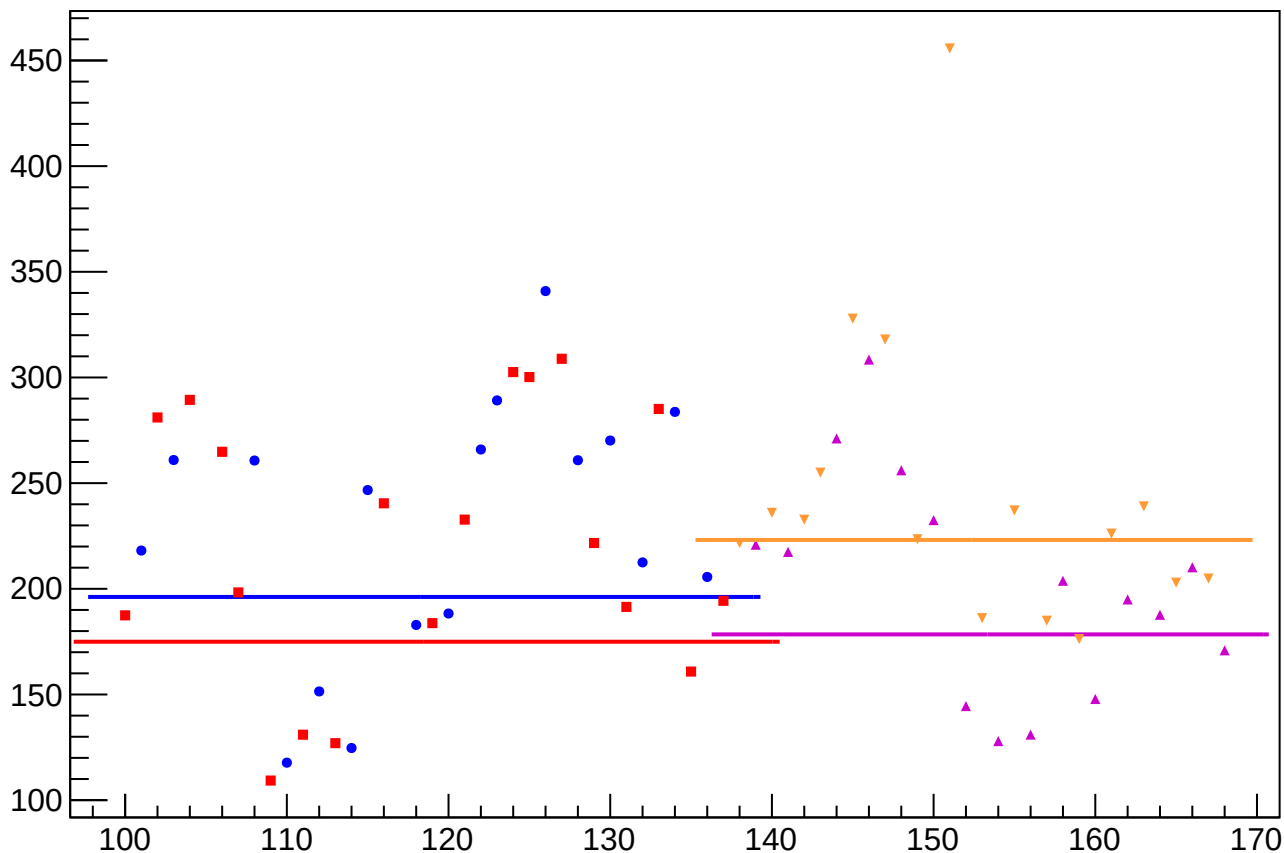
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 55.926+/-45.536 χ^2/NDF : 12.9/31

Out: 26.997+/-48.773 χ^2/NDF : 10.6/34

All: 42.453+/-33.284 χ^2/NDF : 23.8/66

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: 223.128+/-0.047 χ^2/NDF : 979546.1/15

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 178.435+/-0.039 χ^2/NDF : 1449830.7/14

Left: 196.550+/-0.030 χ^2/NDF : 2956963.5/30

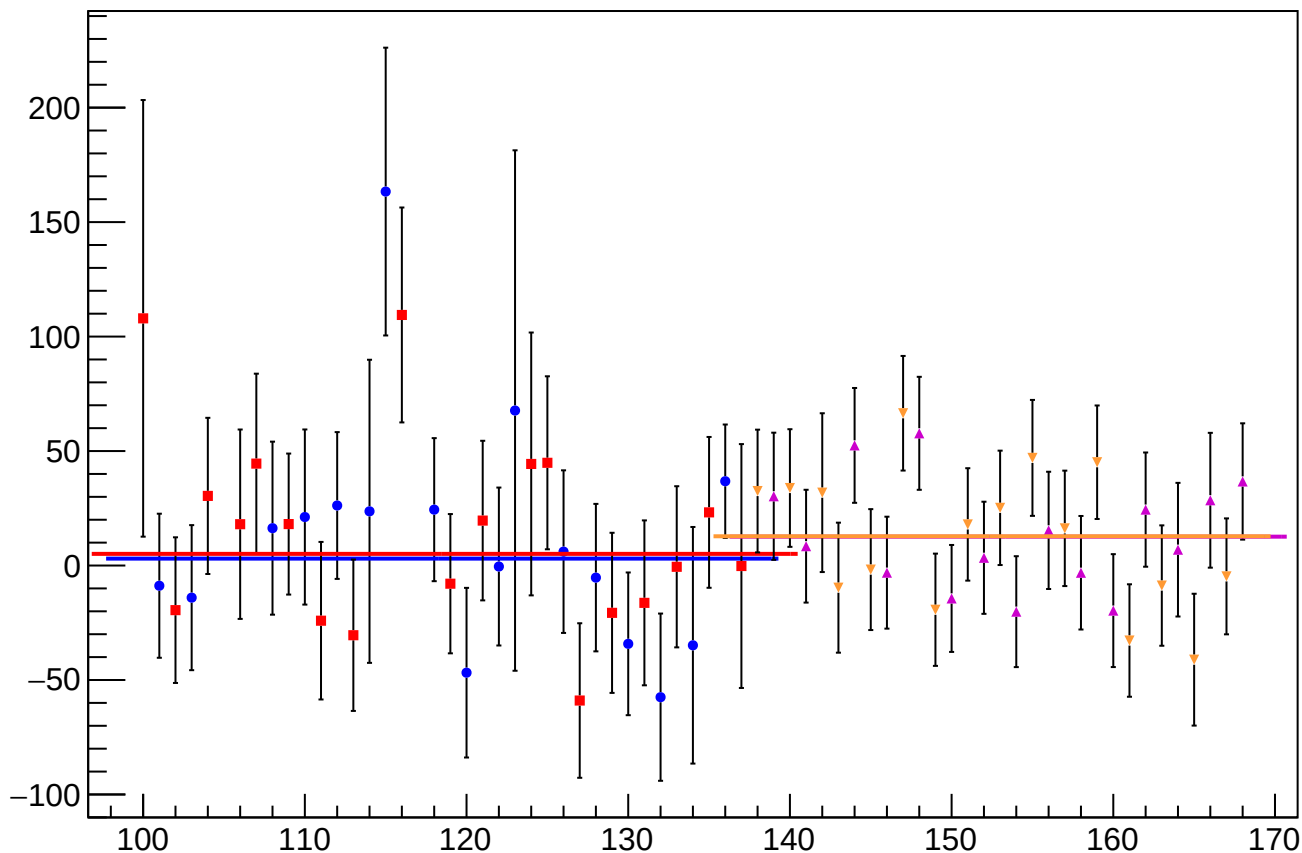
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.182+/-0.032 χ^2/NDF : 2481176.6/31

Out: 200.409+/-0.034 χ^2/NDF : 2976519.3/34

All: 191.739+/-0.024 χ^2/NDF : 5575970.2/66

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 $\pm$ 8.751 χ^2 /NDF: 17.2/16

Left Out: 12.775 $\pm$ 6.514 χ^2 /NDF:20.7/15

Right Out: 5.092 $\pm$ 8.477 χ^2 /NDF: 17.2/18

Left In: 12.608 $\pm$ 6.546 χ^2 /NDF:13.6/14

Left: 12.692 $\pm$ 4.618 χ^2 /NDF: 34.3/30

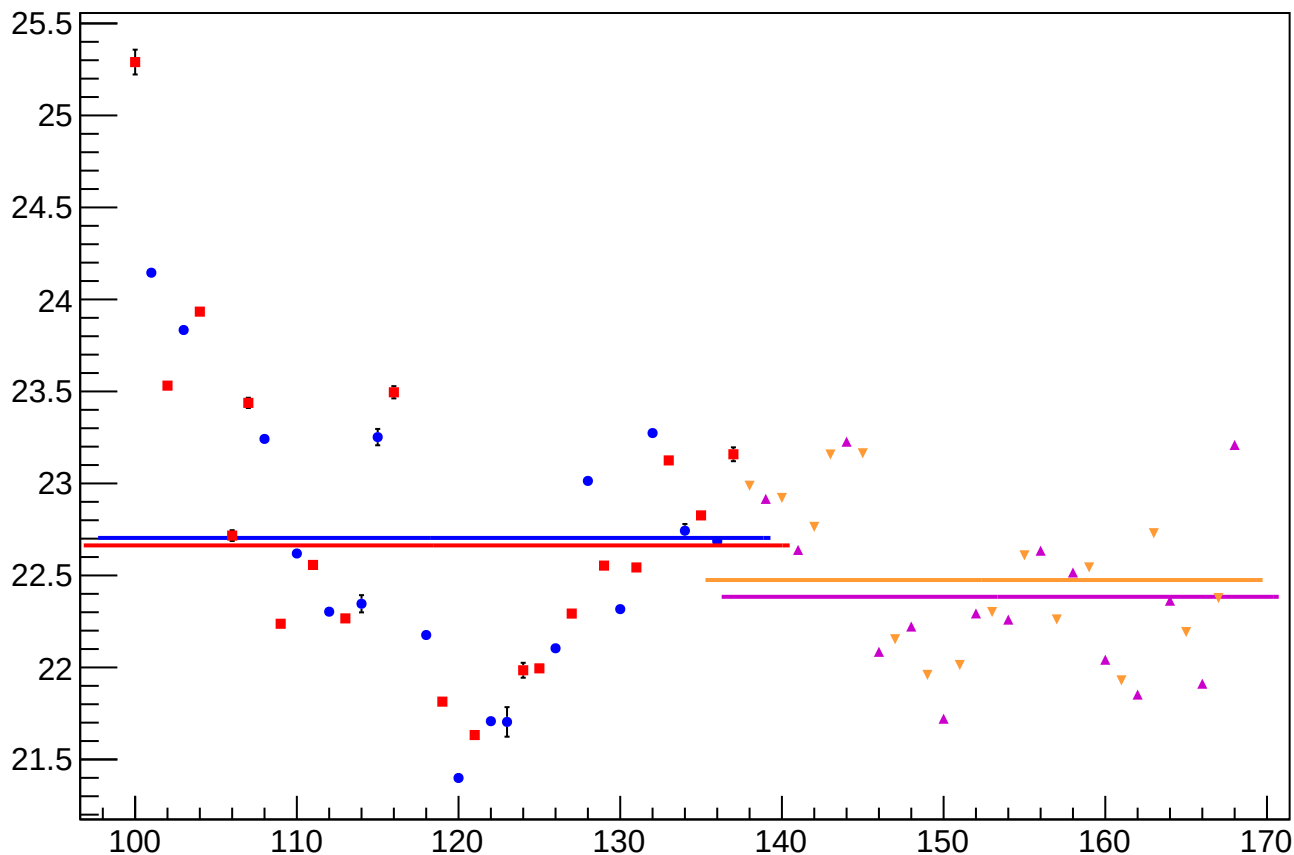
Right: 4.090 $\pm$ 6.089 χ^2 /NDF: 34.4/35

In: 9.169 $\pm$ 5.242 χ^2 /NDF:31.5/31

Out: 9.922 $\pm$ 5.165 χ^2 /NDF:38.4/34

All: 9.551 $\pm$ 3.679 χ^2 /NDF: 70.0/66

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: 22.475 $\pm$ 0.005 χ^2 /NDF: 7617.7/15

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.384 $\pm$ 0.005 χ^2 /NDF: 9449.3/14

Left: 22.430 $\pm$ 0.003 χ^2 /NDF: 17262.0/30

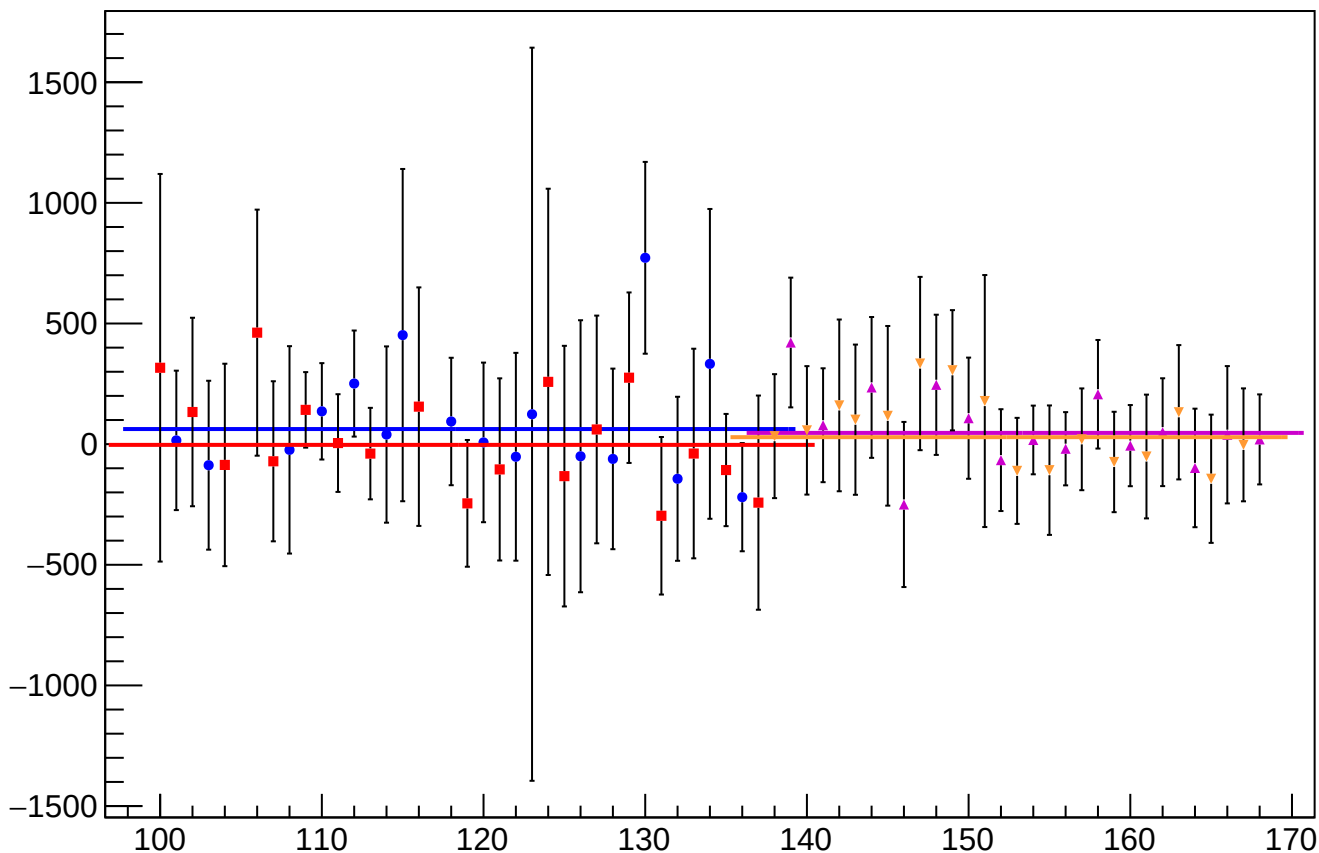
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.499 $\pm$ 0.004 χ^2 /NDF: 25269.9/31

Out: 22.545 $\pm$ 0.004 χ^2 /NDF: 21180.2/34

All: 22.522 $\pm$ 0.003 χ^2 /NDF: 46528.9/66

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 28.880+/-66.975 χ^2/NDF : 3.9/15

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 46.628+/-55.236 χ^2/NDF : 5.1/14

Left: 39.443+/-42.613 χ^2/NDF : 9.1/30

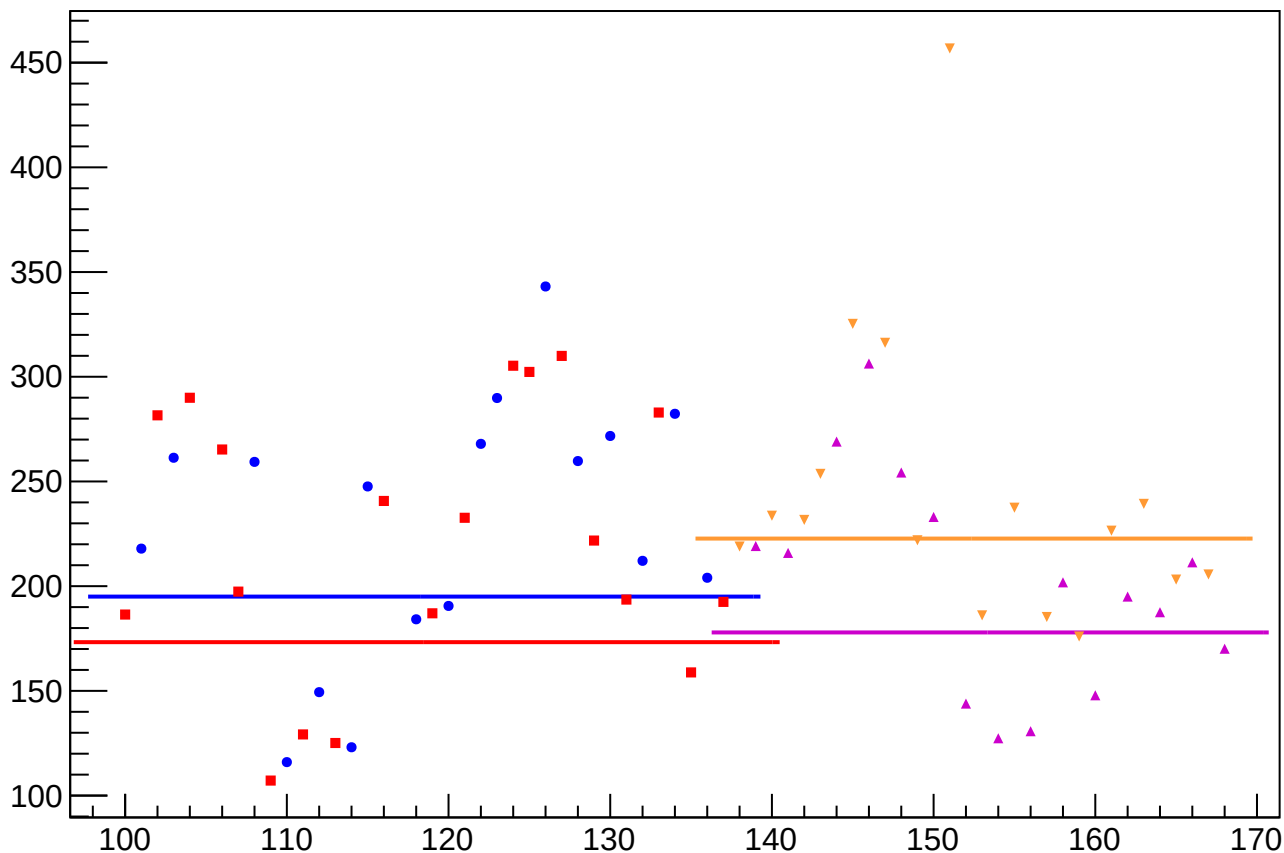
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 51.810+/-45.381 χ^2/NDF : 12.2/31

Out: 13.743+/-48.562 χ^2/NDF : 9.2/34

All: 34.064+/-33.157 χ^2/NDF : 21.8/66

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 $\pm$ 0.056 χ^2 /NDF: 1004284.9/16

Left Out: 222.727 $\pm$ 0.047 χ^2 /NDF: 968625.1/15

Right Out: 173.262 $\pm$ 0.050 χ^2 /NDF: 1578202.7/18

Left In: 177.904 $\pm$ 0.039 χ^2 /NDF: 1439572.7/14

Left: 196.049 $\pm$ 0.030 χ^2 /NDF: 2941339.3/30

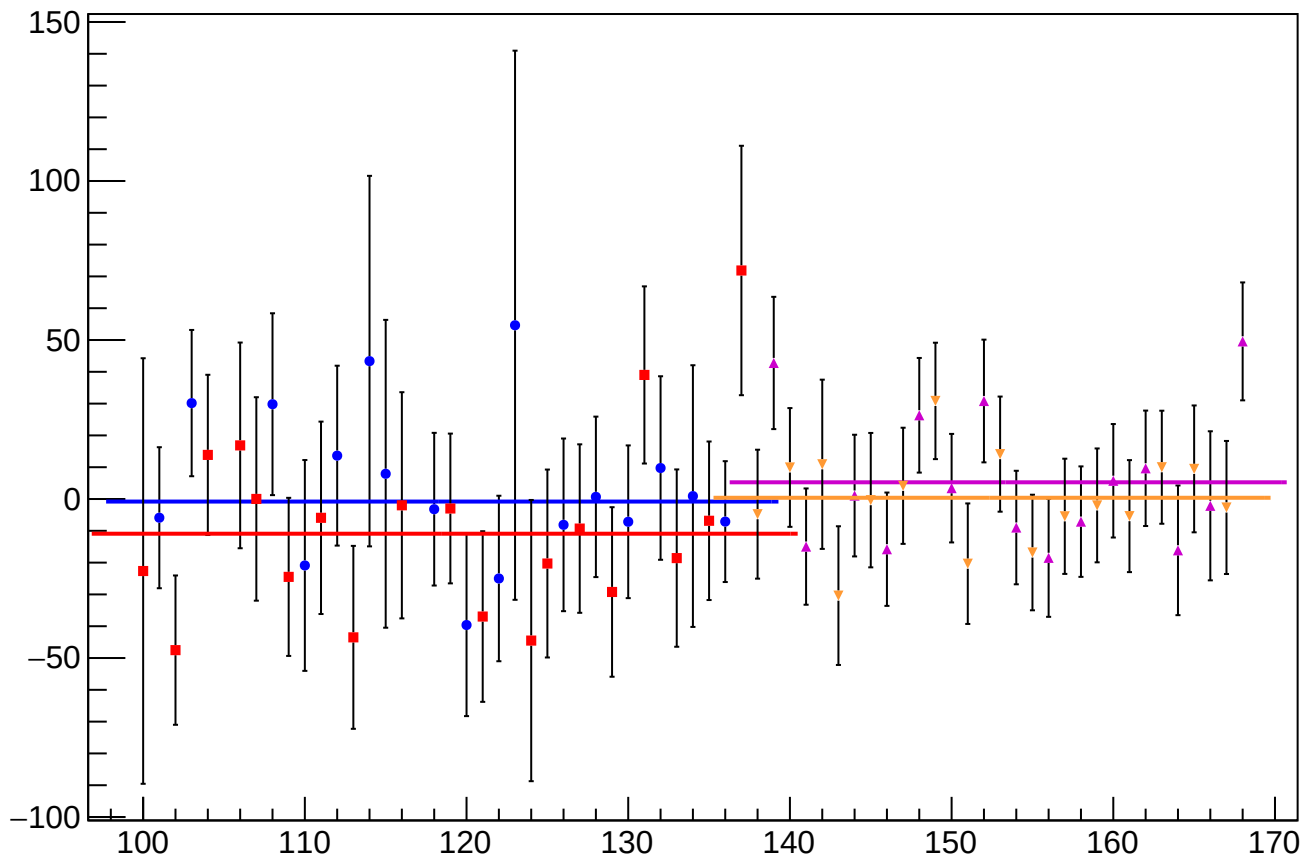
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 183.467 $\pm$ 0.032 χ^2 /NDF: 2506280.5/31

Out: 199.268 $\pm$ 0.034 χ^2 /NDF: 3064208.4/34

All: 190.833 $\pm$ 0.023 χ^2 /NDF: 5683512.7/66

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 $\chi^2/\text{NDF}: 7.8/16$

Left Out: 0.390 ± 4.808 $\chi^2/\text{NDF}: 8.7/15$

Right Out: -10.912 ± 6.626 $\chi^2/\text{NDF}: 15.9/18$

Left In: 5.257 ± 4.819 $\chi^2/\text{NDF}: 18.8/14$

Left: 2.817 ± 3.404 $\chi^2/\text{NDF}: 28.0/30$

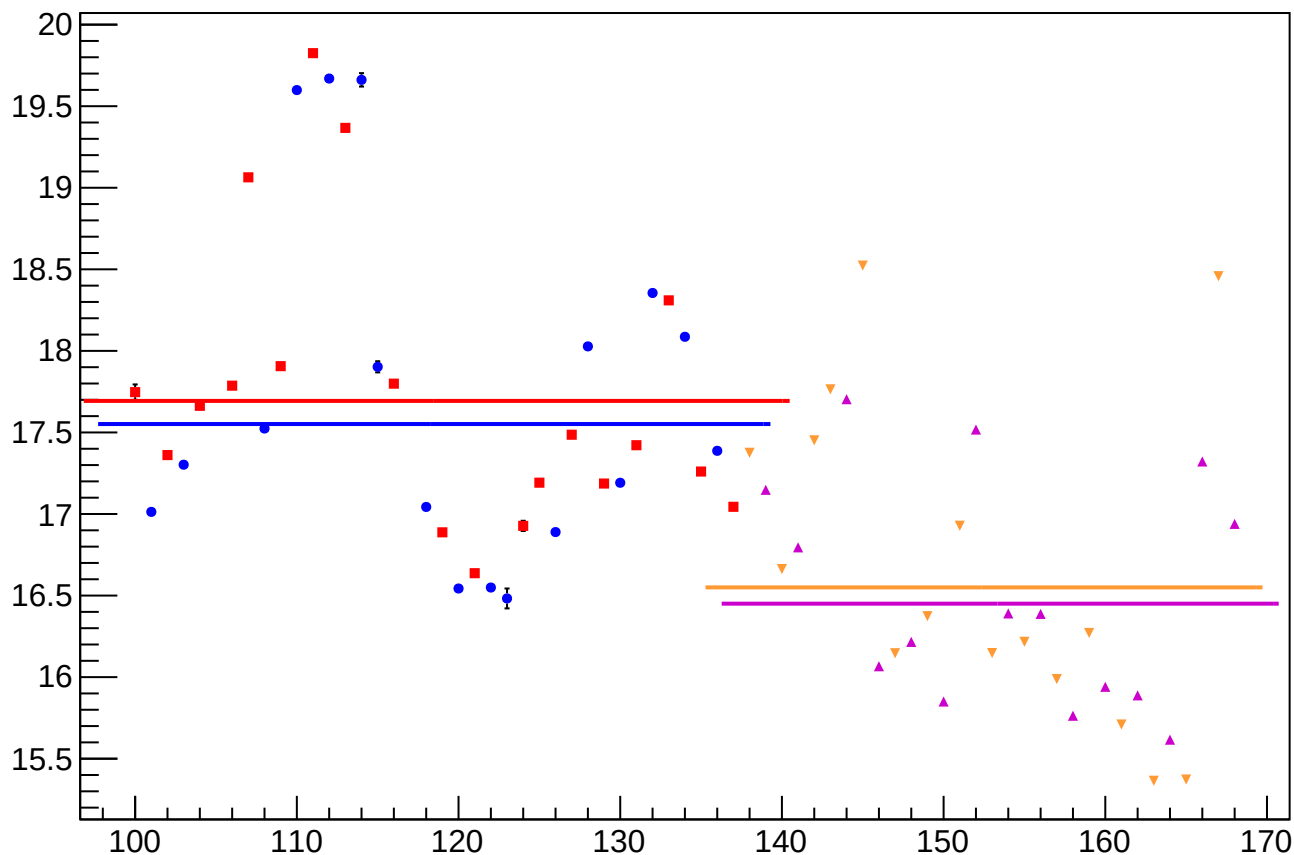
Right: -5.965 ± 4.735 $\chi^2/\text{NDF}: 24.8/35$

In: 3.219 ± 3.926 $\chi^2/\text{NDF}: 27.1/31$

Out: -3.508 ± 3.891 $\chi^2/\text{NDF}: 26.5/34$

All: -0.174 ± 2.764 $\chi^2/\text{NDF}: 55.1/66$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 $\pm$ 0.005 χ^2 /NDF: 34027.1/16

Left Out: 16.550 $\pm$ 0.003 χ^2 /NDF: 72397.7/15

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.450 $\pm$ 0.003 χ^2 /NDF: 35632.6/14

Left: 16.500 $\pm$ 0.002 χ^2 /NDF: 108460.1/30

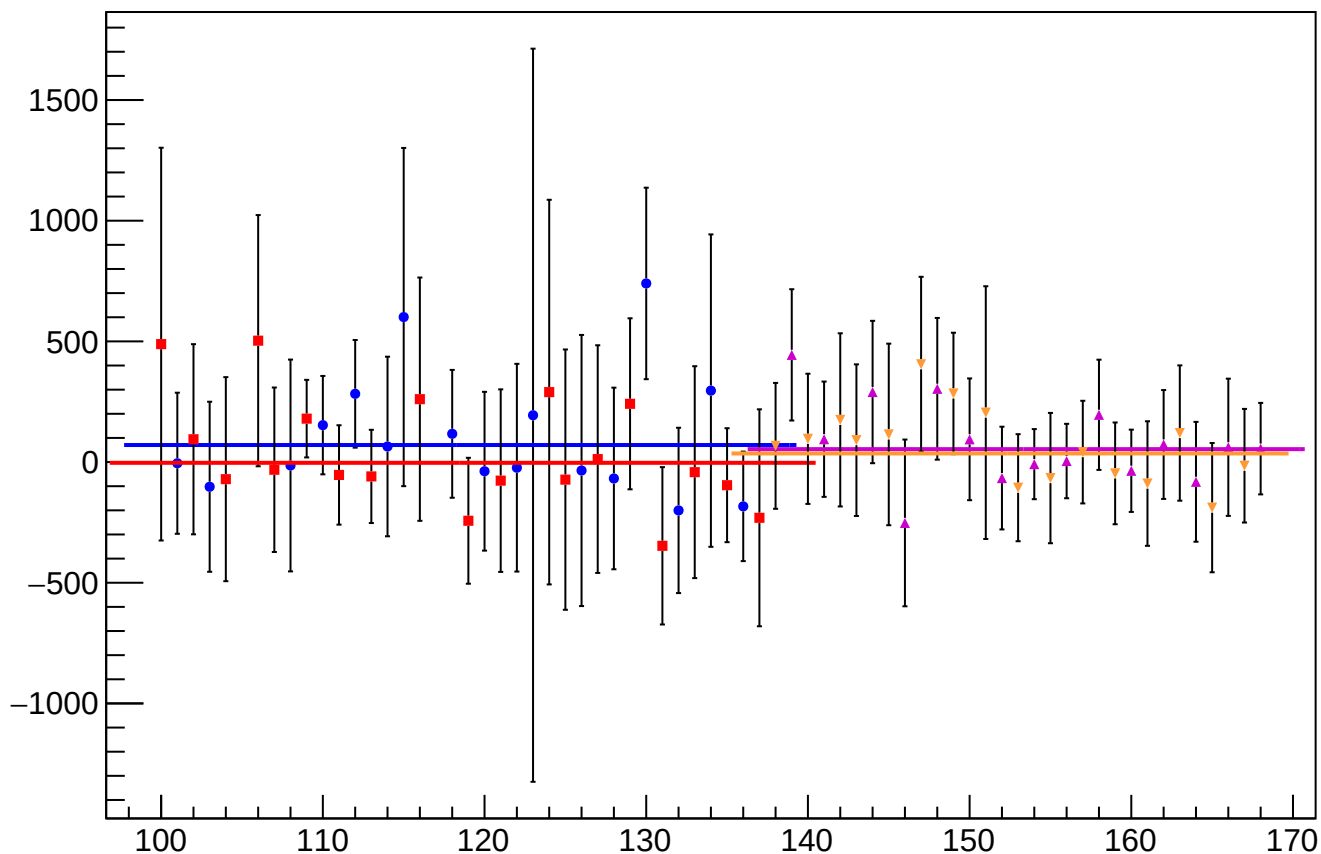
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.821 $\pm$ 0.003 χ^2 /NDF: 104775.0/31

Out: 16.944 $\pm$ 0.003 χ^2 /NDF: 142139.1/34

All: 16.883 $\pm$ 0.002 χ^2 /NDF: 247916.1/66

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 35.643+/-67.590 χ^2/NDF : 4.2/15

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 53.583+/-55.943 χ^2/NDF : 5.8/14

Left: 46.290+/-43.096 χ^2/NDF : 10.1/30

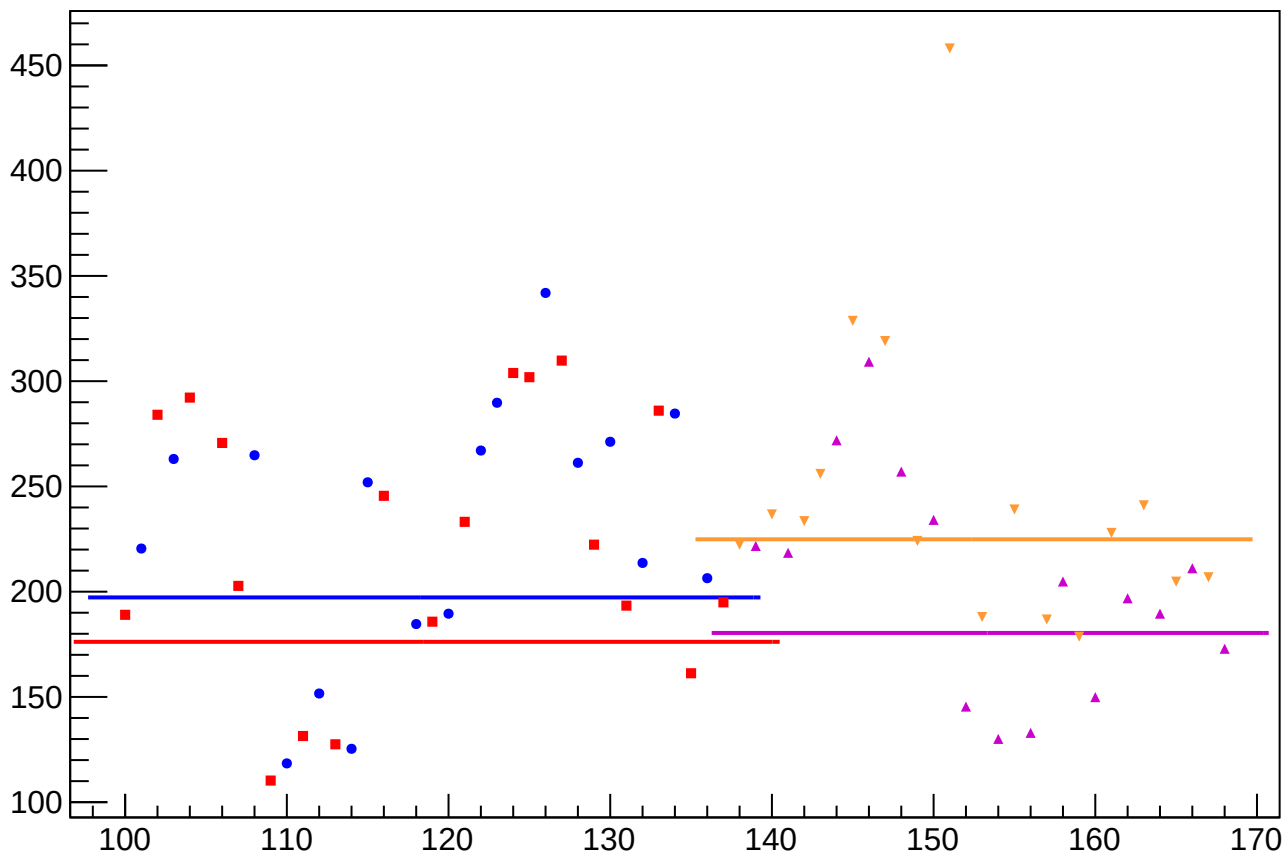
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 59.145+/-45.922 χ^2/NDF : 13.1/31

Out: 17.379+/-49.120 χ^2/NDF : 10.5/34

All: 39.665+/-33.546 χ^2/NDF : 24.0/66

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 224.882+/-0.048 χ^2/NDF : 960196.1/15

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 180.397+/-0.040 χ^2/NDF : 1405602.1/14

Left: 198.482+/-0.030 χ^2/NDF : 2879938.8/30

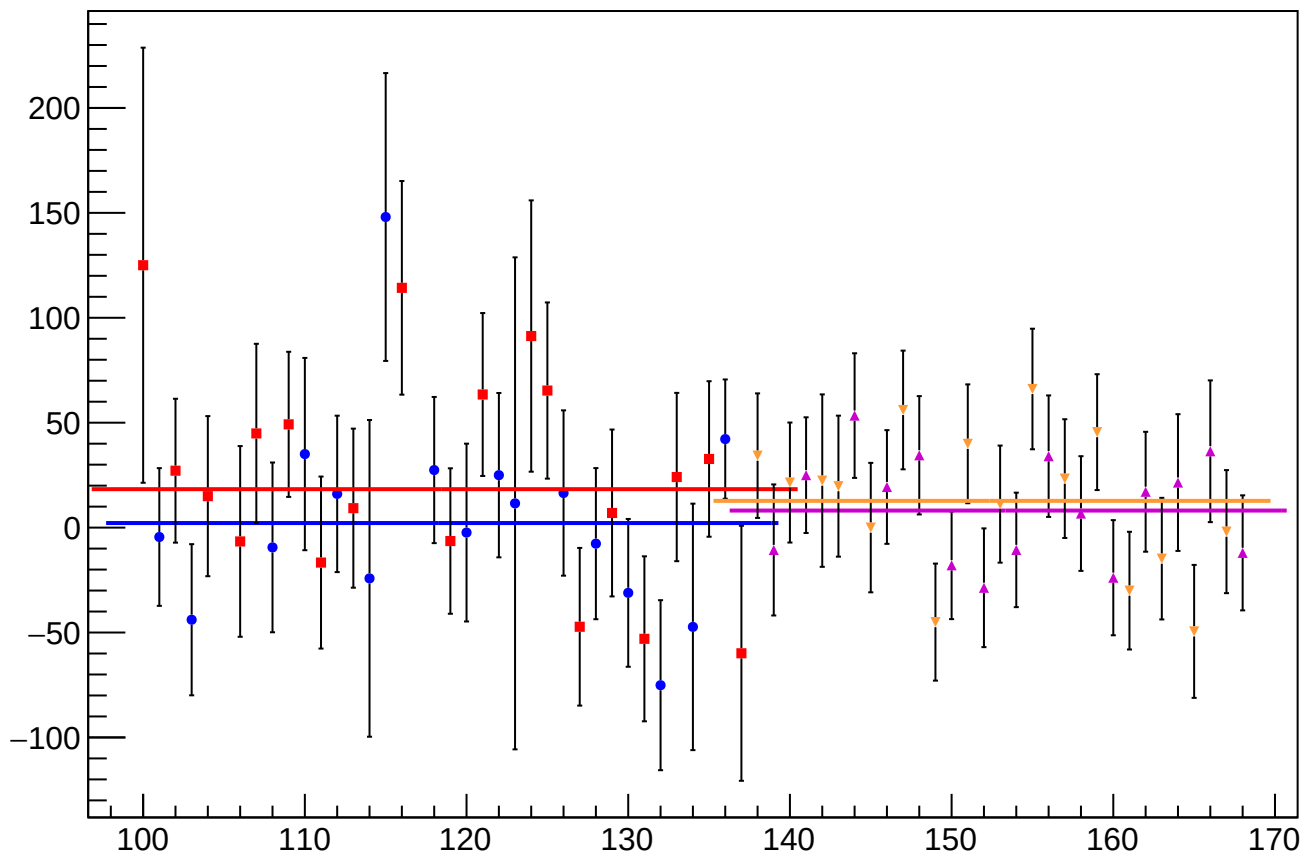
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 185.901+/-0.032 χ^2/NDF : 2434503.8/31

Out: 201.902+/-0.035 χ^2/NDF : 2969863.9/34

All: 193.363+/-0.024 χ^2/NDF : 5517617.1/66

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 $\pm$ 9.825 χ^2/NDF : 15.4/16

Left Out: 12.748 $\pm$ 7.383 χ^2/NDF :20.8/15

Right Out: 18.320 $\pm$ 9.497 χ^2/NDF : 19.6/18

Left In: 8.128 $\pm$ 7.364 χ^2/NDF :11.0/14

Left: 10.432 $\pm$ 5.214 χ^2/NDF : 31.9/30

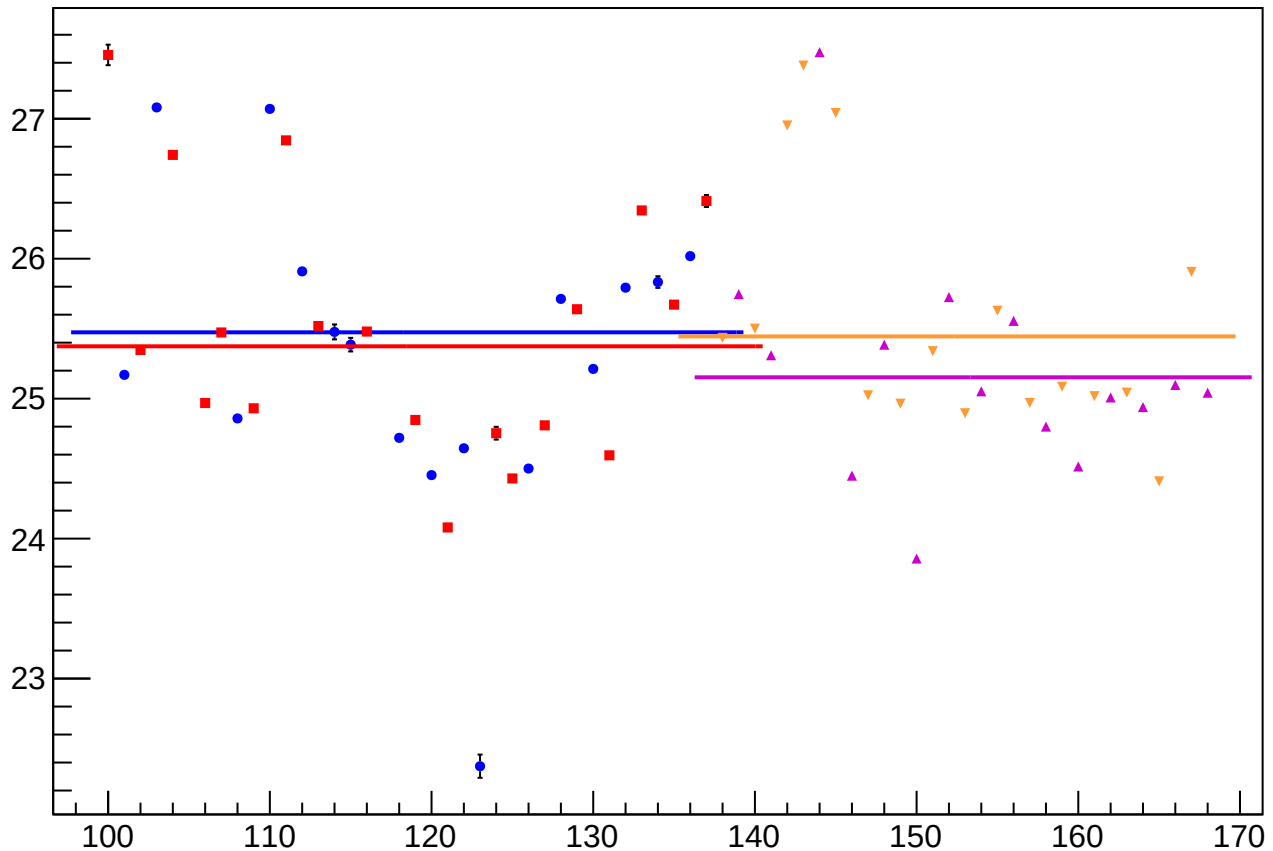
Right: 10.522 $\pm$ 6.828 χ^2/NDF : 36.4/35

In: 5.987 $\pm$ 5.893 χ^2/NDF :26.6/31

Out: 14.846 $\pm$ 5.829 χ^2/NDF :40.6/34

All: 10.465 $\pm$ 4.144 χ^2/NDF : 68.3/66

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474 $\pm$ 0.007 χ^2 /NDF: 14061.2/16

Left Out: 25.445 $\pm$ 0.005 χ^2 /NDF:20988.6/15

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.152 $\pm$ 0.005 χ^2 /NDF:22417.3/14

Left: 25.298 $\pm$ 0.004 χ^2 /NDF: 44977.1/30

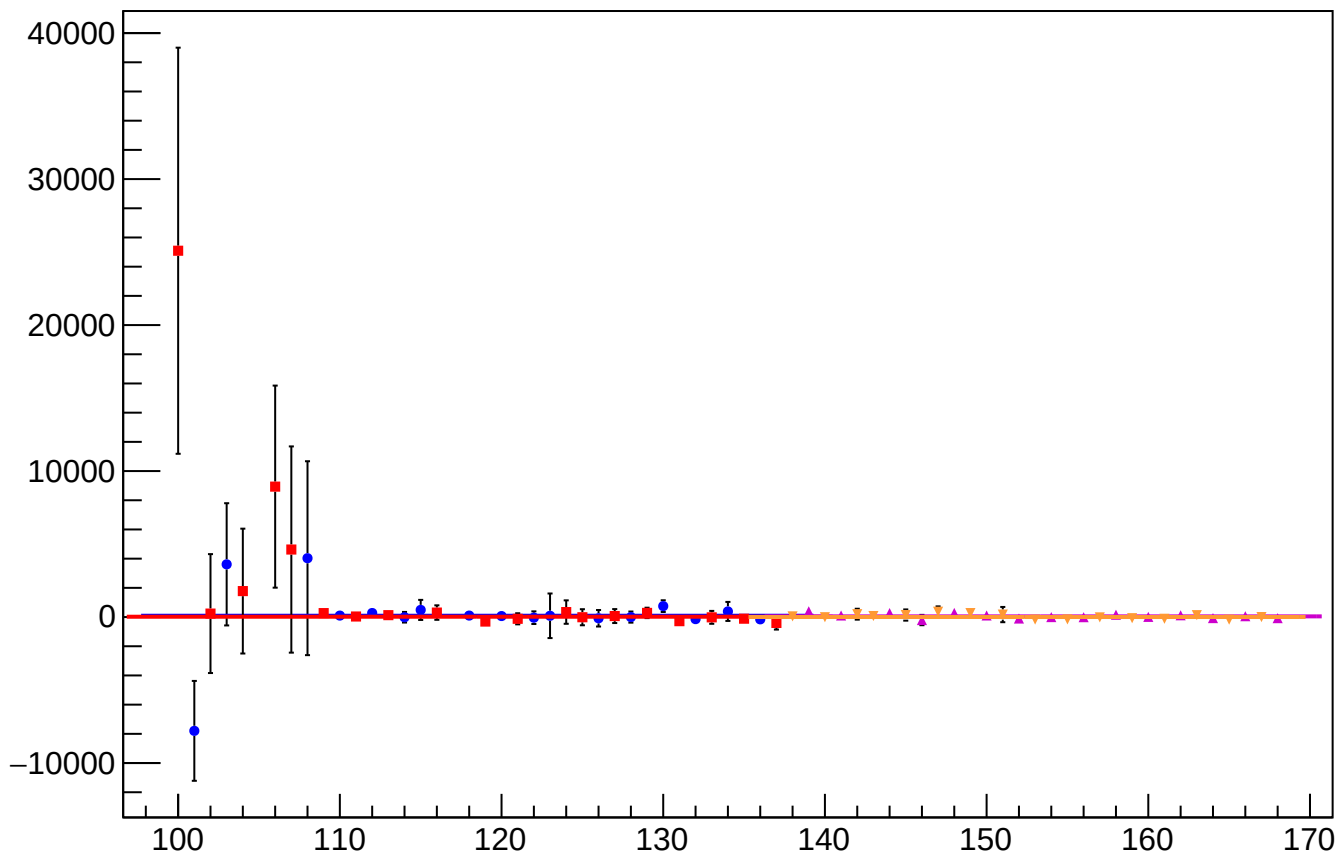
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.268 $\pm$ 0.004 χ^2 /NDF:37850.0/31

Out: 25.418 $\pm$ 0.004 χ^2 /NDF:34638.9/34

All: 25.344 $\pm$ 0.003 χ^2 /NDF: 73143.8/66

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: 2.805+/-68.054 χ^2/NDF : 4.6/15

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 46.740+/-56.606 χ^2/NDF : 5.3/14

Left: 28.773+/-43.519 χ^2/NDF : 10.1/30

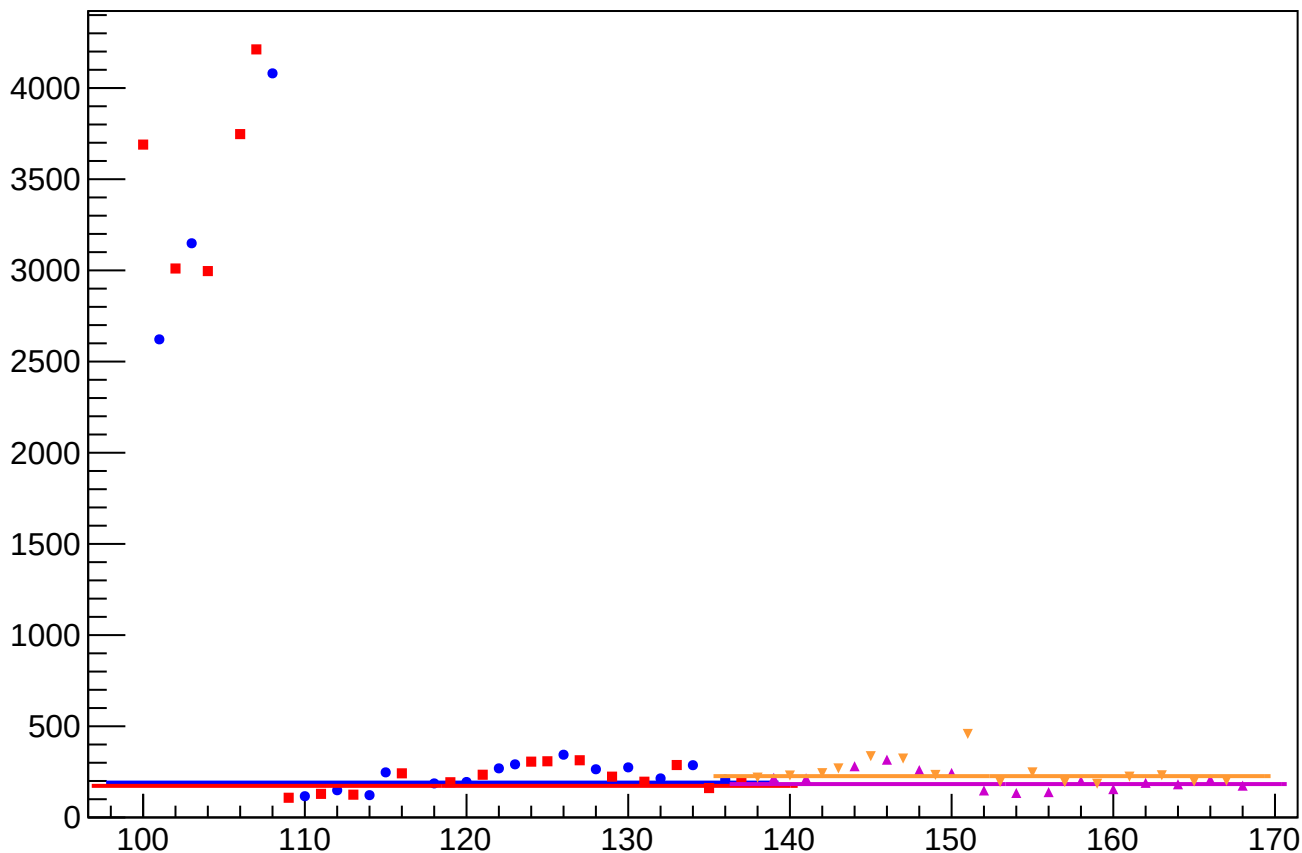
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 59.364+/-47.549 χ^2/NDF : 17.7/31

Out: 11.013+/-52.079 χ^2/NDF : 16.5/34

All: 37.383+/-35.114 χ^2/NDF : 34.7/66

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: 226.583+/-0.048 χ^2/NDF : 955074.5/15

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 183.057+/-0.040 χ^2/NDF : 1300598.4/14

Left: 200.856+/-0.031 χ^2/NDF : 2739236.5/30

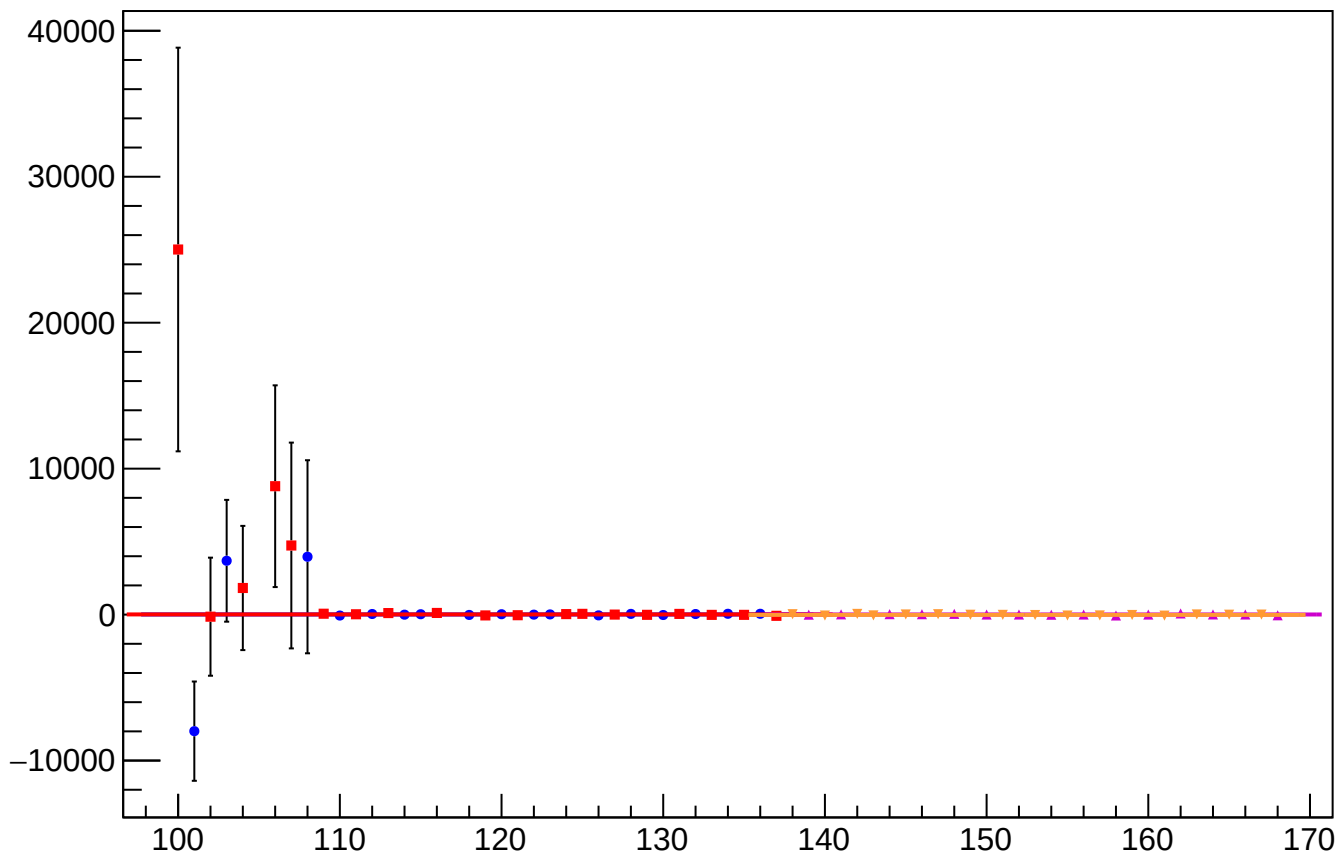
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 185.451+/-0.034 χ^2/NDF : 4884502.1/31

Out: 204.490+/-0.037 χ^2/NDF : 5670897.1/34

All: 194.107+/-0.025 χ^2/NDF : 10701177.5/60

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: -18.445+/-8.440 χ^2/NDF : 16.1/15

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 8.527+/-8.491 χ^2/NDF : 17.3/14

Left: -5.039+/-5.986 χ^2/NDF : 38.4/30

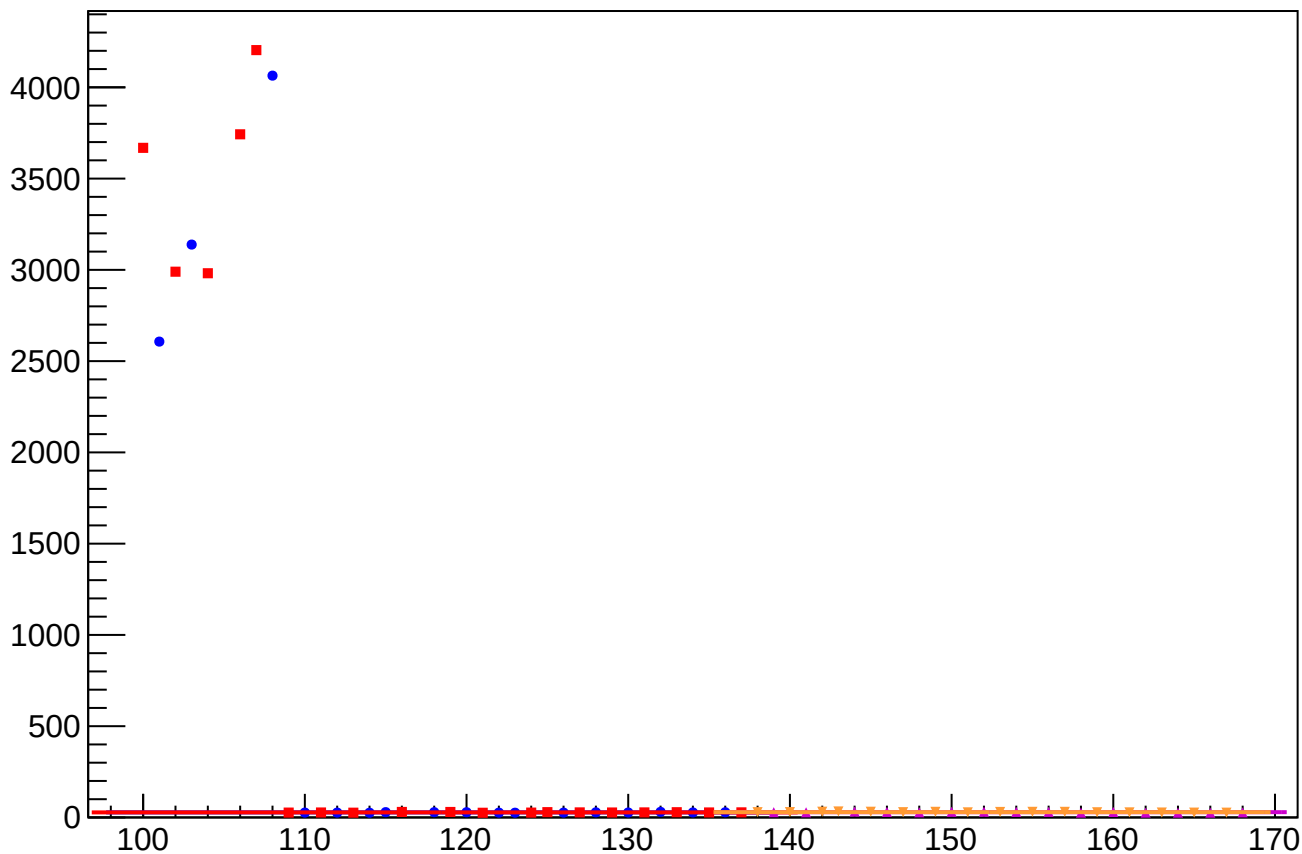
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 9.139+/-6.967 χ^2/NDF : 35.6/31

Out: -8.314+/-6.946 χ^2/NDF : 44.9/34

All: 0.386+/-4.919 χ^2/NDF : 83.6/66

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: 29.027 $\pm$ 0.006 χ^2 /NDF: 91936.8/15

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.920 $\pm$ 0.006 χ^2 /NDF: 108277.3/14

Left: 28.974 $\pm$ 0.004 χ^2 /NDF: 200372.7/30

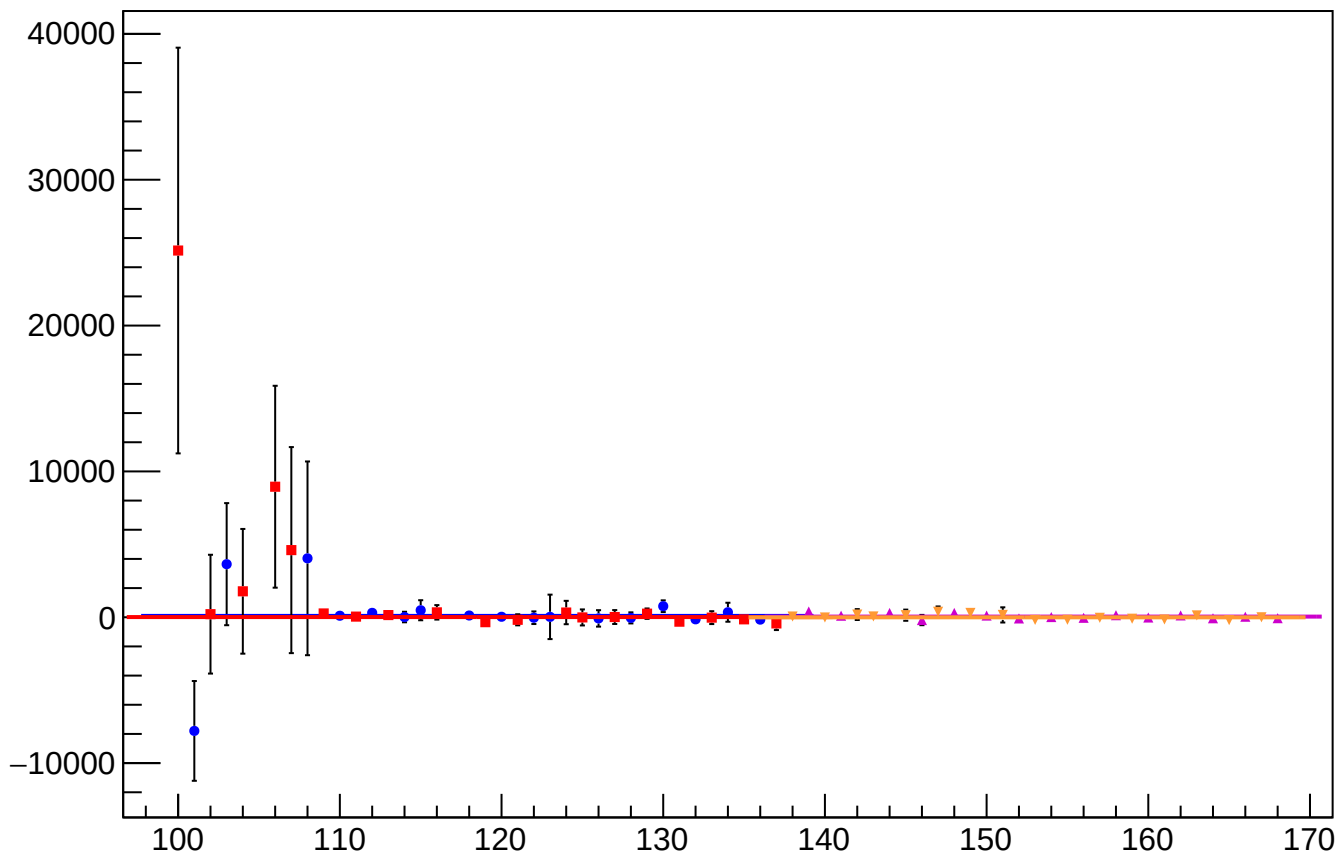
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.566 $\pm$ 0.005 χ^2 /NDF: 3145805.9/31

Out: 28.597 $\pm$ 0.005 χ^2 /NDF: 3584832.0/34

All: 28.581 $\pm$ 0.003 χ^2 /NDF: 6730657.1/66

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: -4.895+/-67.906 χ^2/NDF : 5.3/15

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 45.206+/-56.496 χ^2/NDF : 5.4/14

Left: 24.712+/-43.430 χ^2/NDF : 11.0/30

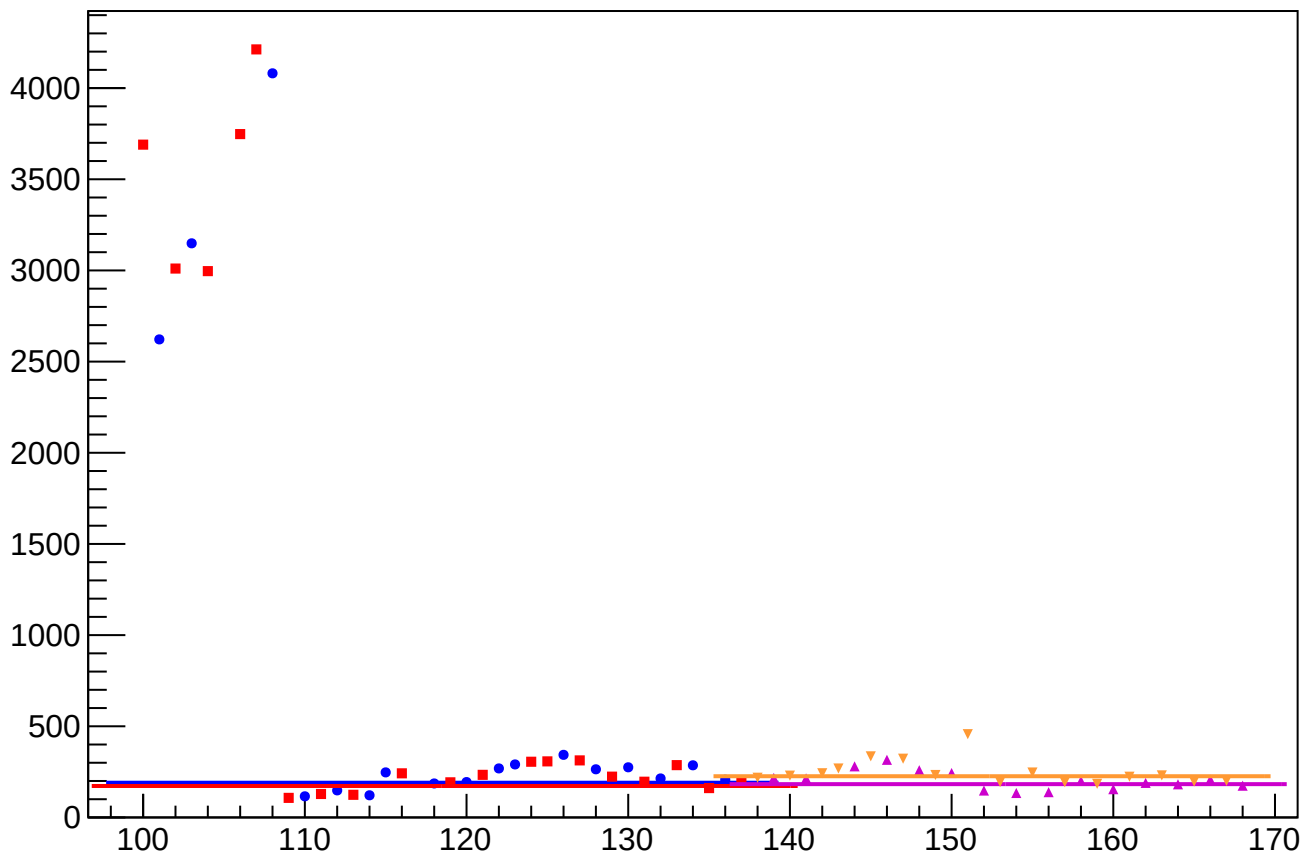
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 59.254+/-47.440 χ^2/NDF : 18.2/31

Out: 2.435+/-51.942 χ^2/NDF : 18.0/34

All: 33.413+/-35.029 χ^2/NDF : 36.8/66

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: 226.091+/-0.048 χ^2/NDF : 954936.9/15

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 182.704+/-0.040 χ^2/NDF : 1300387.4/14

Left: 200.452+/-0.031 χ^2/NDF : 2737799.8/30

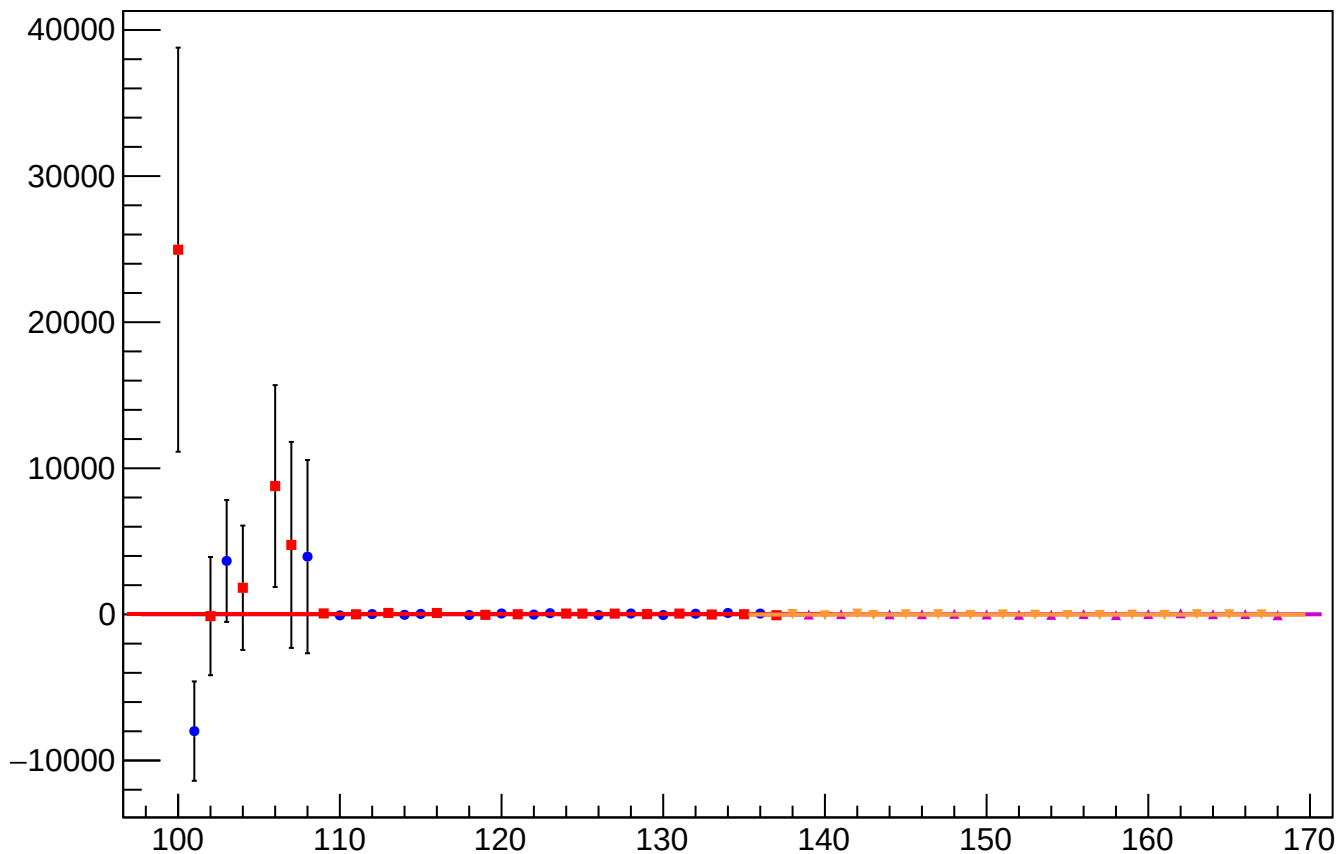
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 184.999+/-0.034 χ^2/NDF : 4895148.0/31

Out: 203.898+/-0.037 χ^2/NDF : 5688187.5/34

All: 193.594+/-0.025 χ^2/NDF : 10727692.6/66

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: -13.471+/-8.505 χ^2/NDF : 10.5/15

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 7.111+/-8.544 χ^2/NDF : 17.4/14

Left: -3.226+/-6.028 χ^2/NDF : 30.9/30

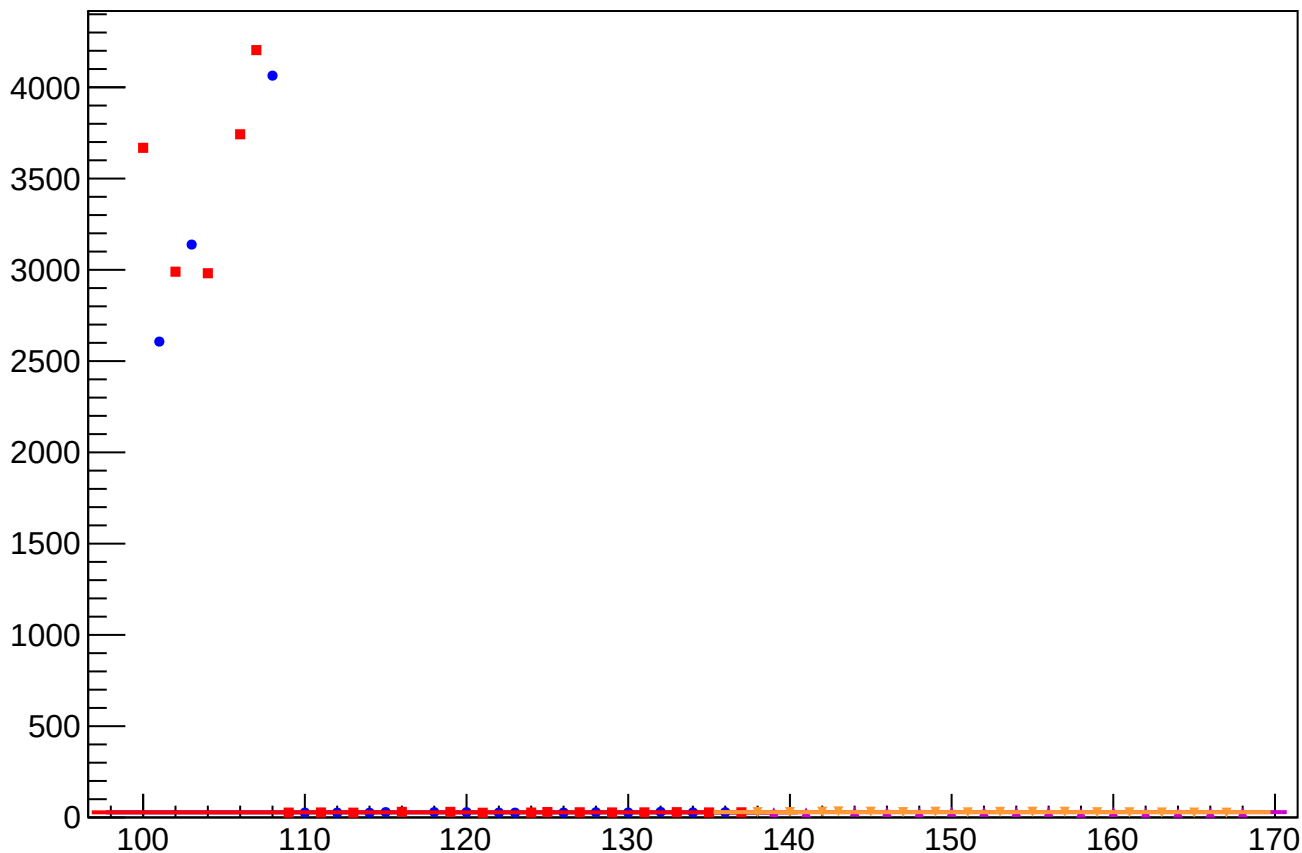
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 7.924+/-7.012 χ^2/NDF : 40.7/31

Out: 0.427+/-7.001 χ^2/NDF : 35.3/34

All: 4.169+/-4.954 χ^2/NDF : 76.6/66

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: 29.245+/-0.006 χ^2/NDF : 96139.0/15

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 29.103+/-0.006 χ^2/NDF : 108730.0/14

Left: 29.174+/-0.004 χ^2/NDF : 205148.4/30

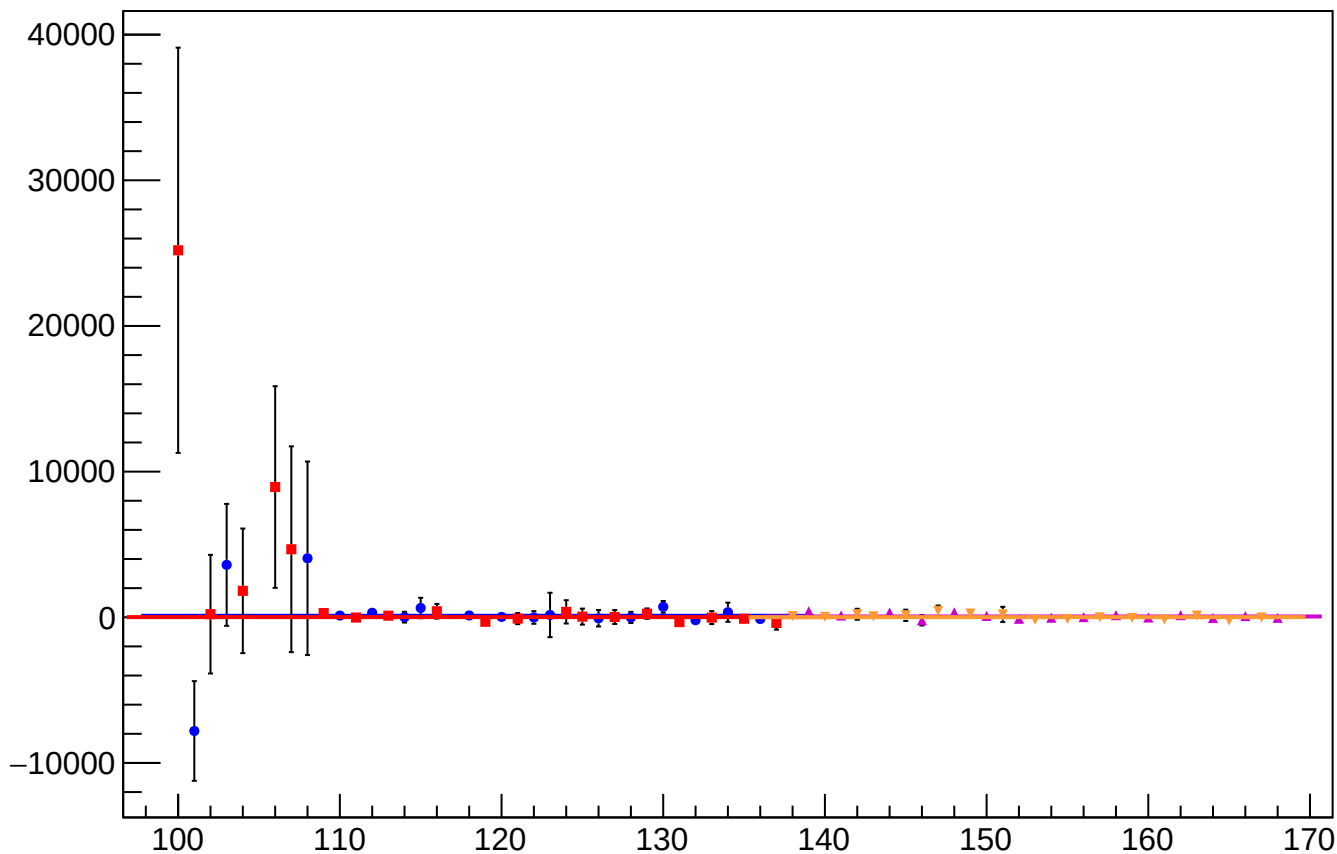
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.750+/-0.005 χ^2/NDF : 3146164.5/31

Out: 28.817+/-0.005 χ^2/NDF : 3591481.9/34

All: 28.784+/-0.004 χ^2/NDF : 6737737.0/66

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: 8.718 $\pm$ 68.664 χ^2 /NDF:5.0/15

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 54.236 $\pm$ 57.299 χ^2 /NDF:6.0/14

Left: 35.551 $\pm$ 43.993 χ^2 /NDF: 11.2/30

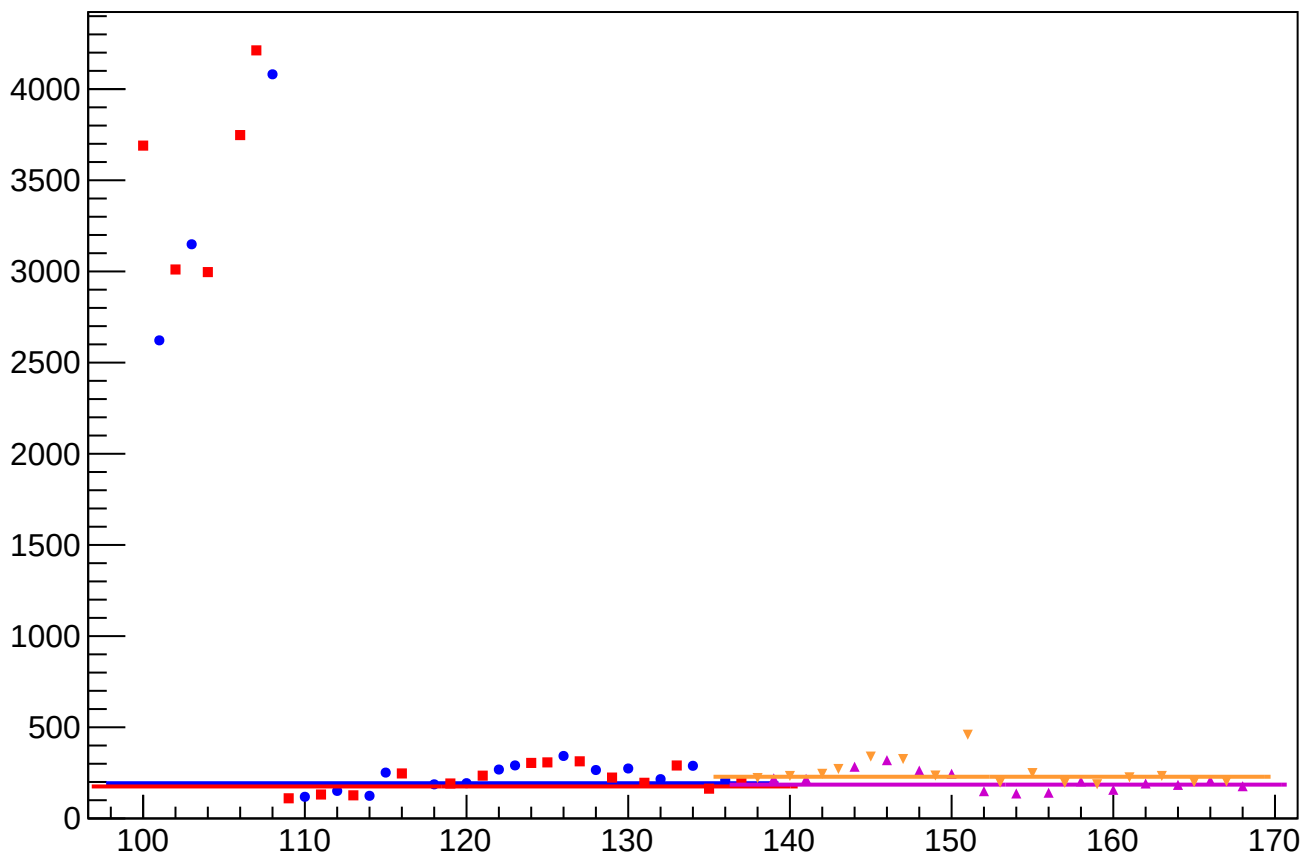
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 68.301 $\pm$ 48.080 χ^2 /NDF:18.6/31

Out: 9.757 $\pm$ 52.572 χ^2 /NDF:17.3/34

All: 41.637 $\pm$ 35.480 χ^2 /NDF: 36.5/66

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: 228.709+/-0.049 χ^2/NDF : 948242.5/15

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 185.491+/-0.041 χ^2/NDF : 1271739.6/14

Left: 203.232+/-0.031 χ^2/NDF : 2687056.9/30

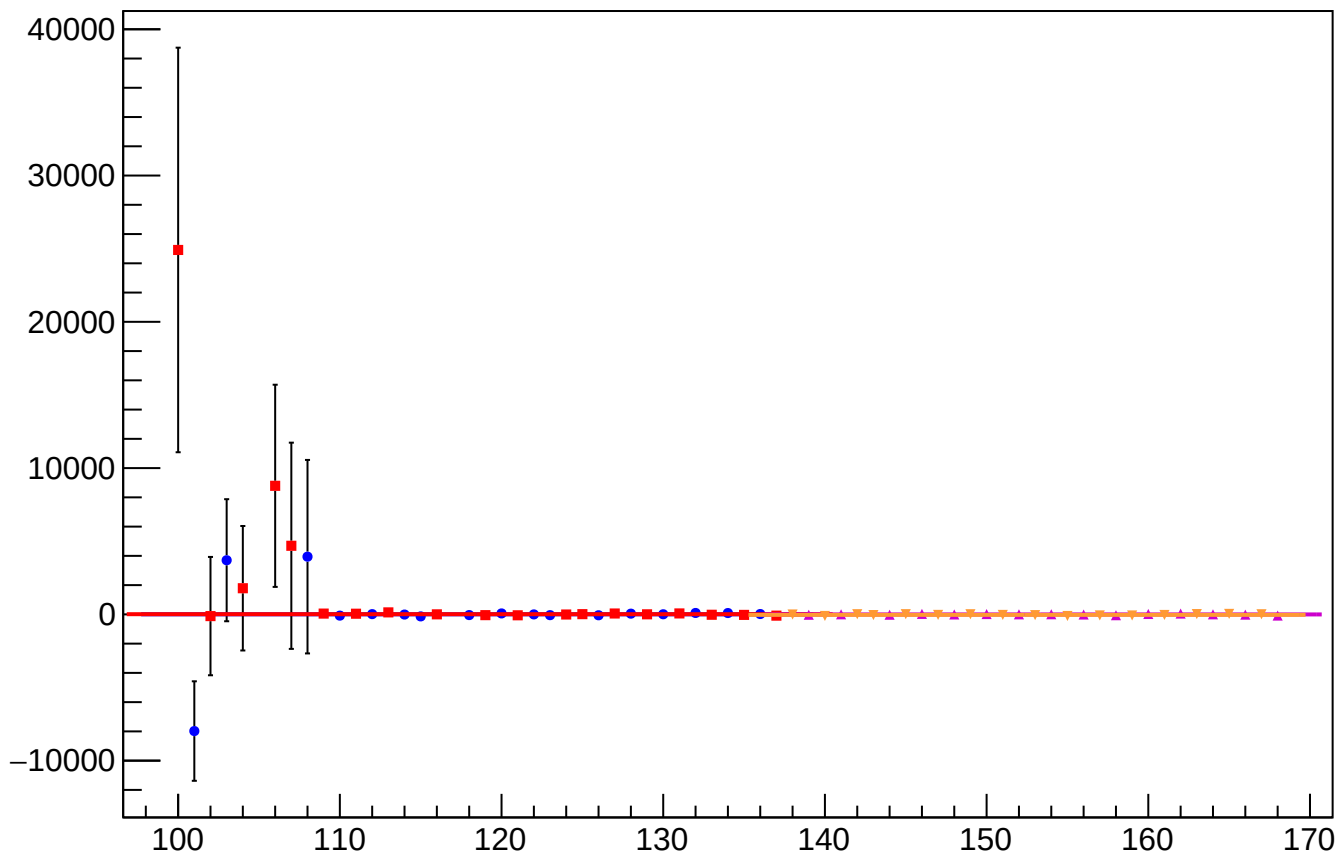
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 187.769+/-0.034 χ^2/NDF : 4818548.4/31

Out: 206.686+/-0.037 χ^2/NDF : 5610859.4/34

All: 196.385+/-0.025 χ^2/NDF : 10570415.9/60

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: -32.488+/-10.082 χ^2/NDF :18.3/15

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -3.698+/-10.165 χ^2/NDF :11.8/14

Left: -18.210+/-7.158 χ^2/NDF : 34.2/30

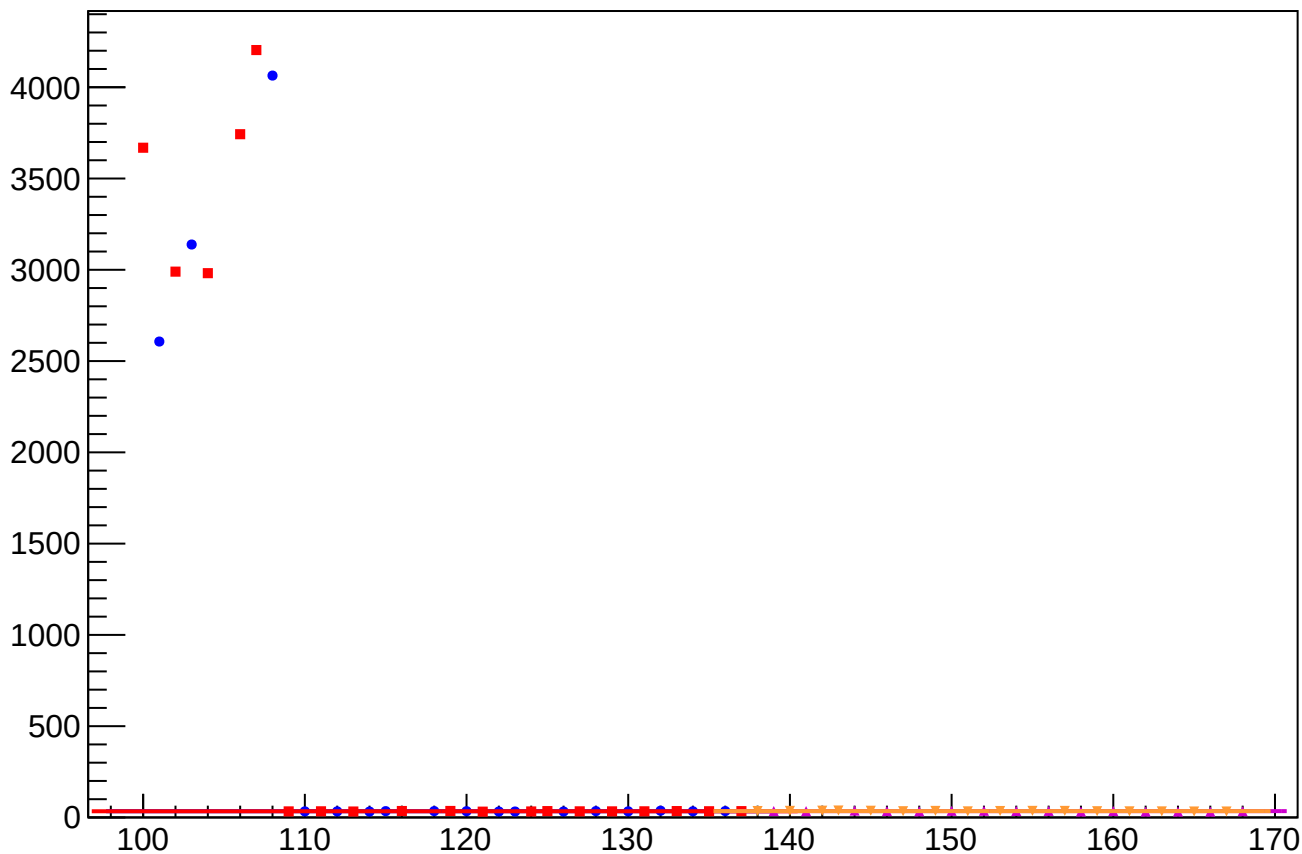
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -1.055+/-8.403 χ^2/NDF :32.4/31

Out: -18.424+/-8.359 χ^2/NDF :46.2/34

All: -9.785+/-5.926 χ^2/NDF : 80.8/66

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: 34.731 $\pm$ 0.007 χ^2 /NDF:46656.3/15

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.693 $\pm$ 0.007 χ^2 /NDF:51411.8/14

Left: 34.712 $\pm$ 0.005 χ^2 /NDF: 98082.2/30

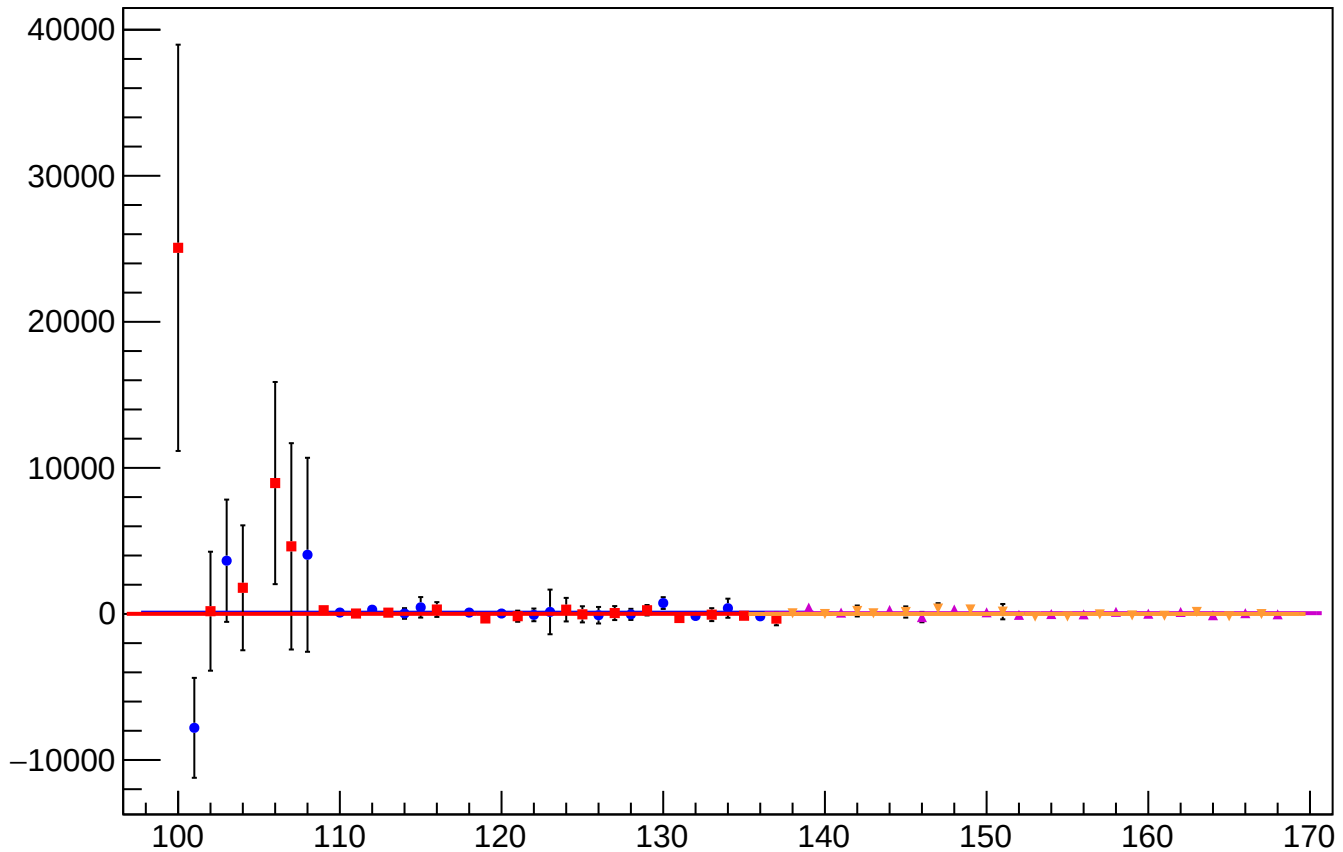
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.517 $\pm$ 0.006 χ^2 /NDF:3059548.6/31

Out: 34.475 $\pm$ 0.006 χ^2 /NDF:3502662.0/34

All: 34.496 $\pm$ 0.004 χ^2 /NDF: 6562235.6/66

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041 $\pm$ 87.947 χ^2 /NDF: 12.4/16

Left Out: -1.111 $\pm$ 68.539 χ^2 /NDF: 5.1/15

Right Out: 7.296 $\pm$ 81.208 χ^2 /NDF: 11.1/18

Left In: 52.834 $\pm$ 57.141 χ^2 /NDF: 5.4/14

Left: 30.714 $\pm$ 43.889 χ^2 /NDF: 10.9/30

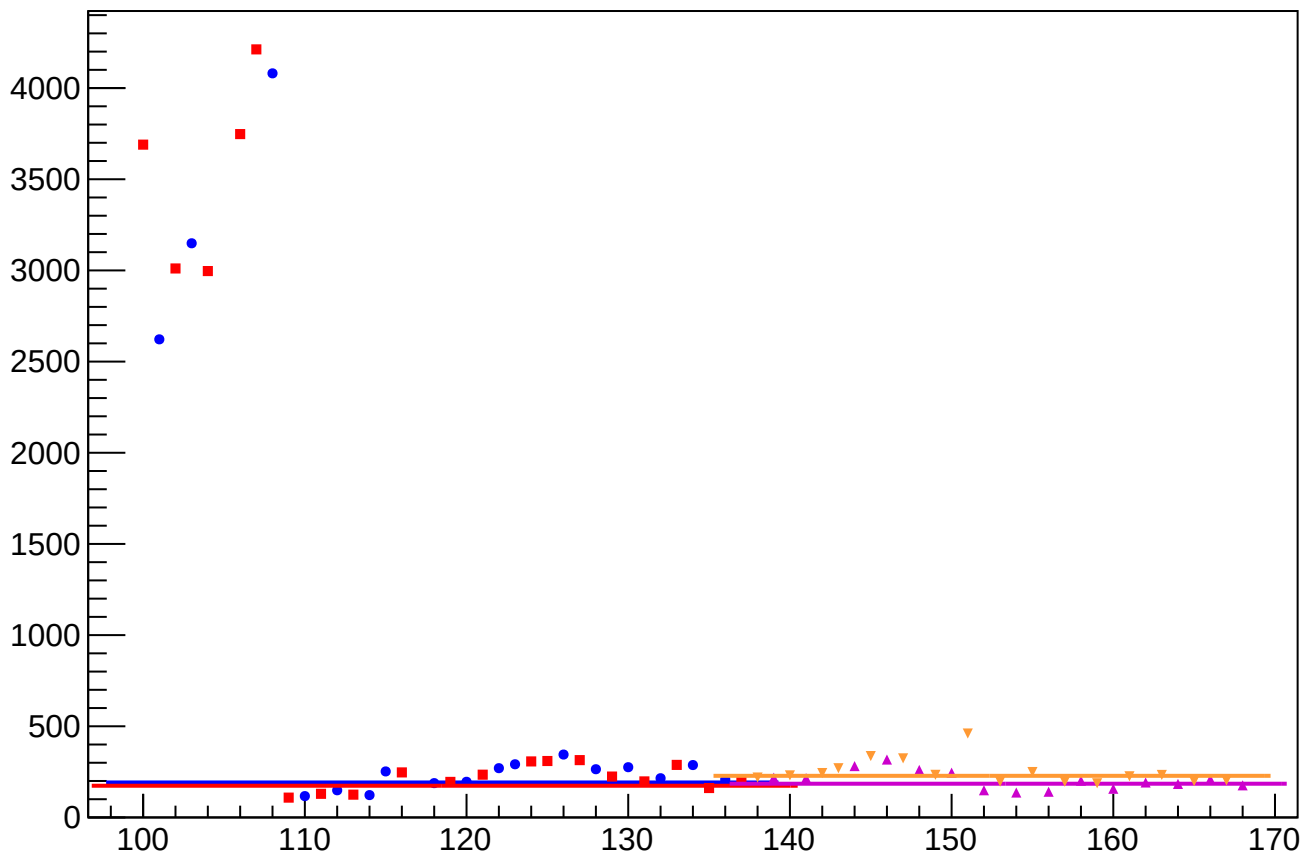
Right: 43.536 $\pm$ 59.663 χ^2 /NDF: 23.9/35

In: 62.691 $\pm$ 47.916 χ^2 /NDF: 17.9/31

Out: 2.386 $\pm$ 52.377 χ^2 /NDF: 16.2/34

All: 35.216 $\pm$ 35.354 χ^2 /NDF: 34.8/66

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: 228.323+/-0.048 χ^2/NDF : 937129.4/15

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 184.990+/-0.040 χ^2/NDF : 1259401.9/14

Left: 202.759+/-0.031 χ^2/NDF : 2668180.7/30

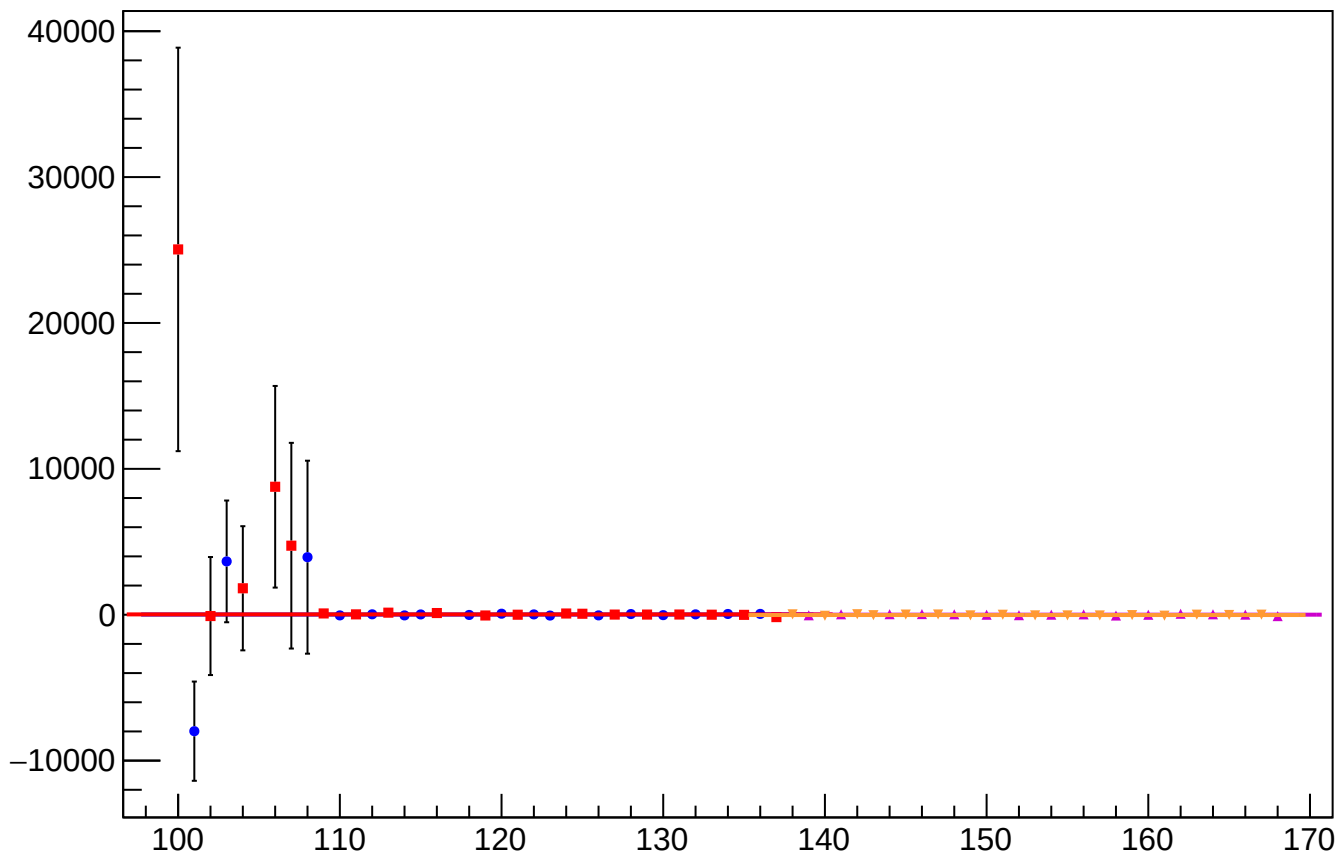
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.035+/-0.034 χ^2/NDF : 4841094.8/31

Out: 205.695+/-0.037 χ^2/NDF : 5672561.8/34

All: 195.536+/-0.025 χ^2/NDF : 10651847.5/66

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: -20.399+/-9.155 χ^2/NDF : 11.6/15

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: 3.660+/-9.205 χ^2/NDF : 21.8/14

Left: -8.435+/-6.491 χ^2/NDF : 36.8/30

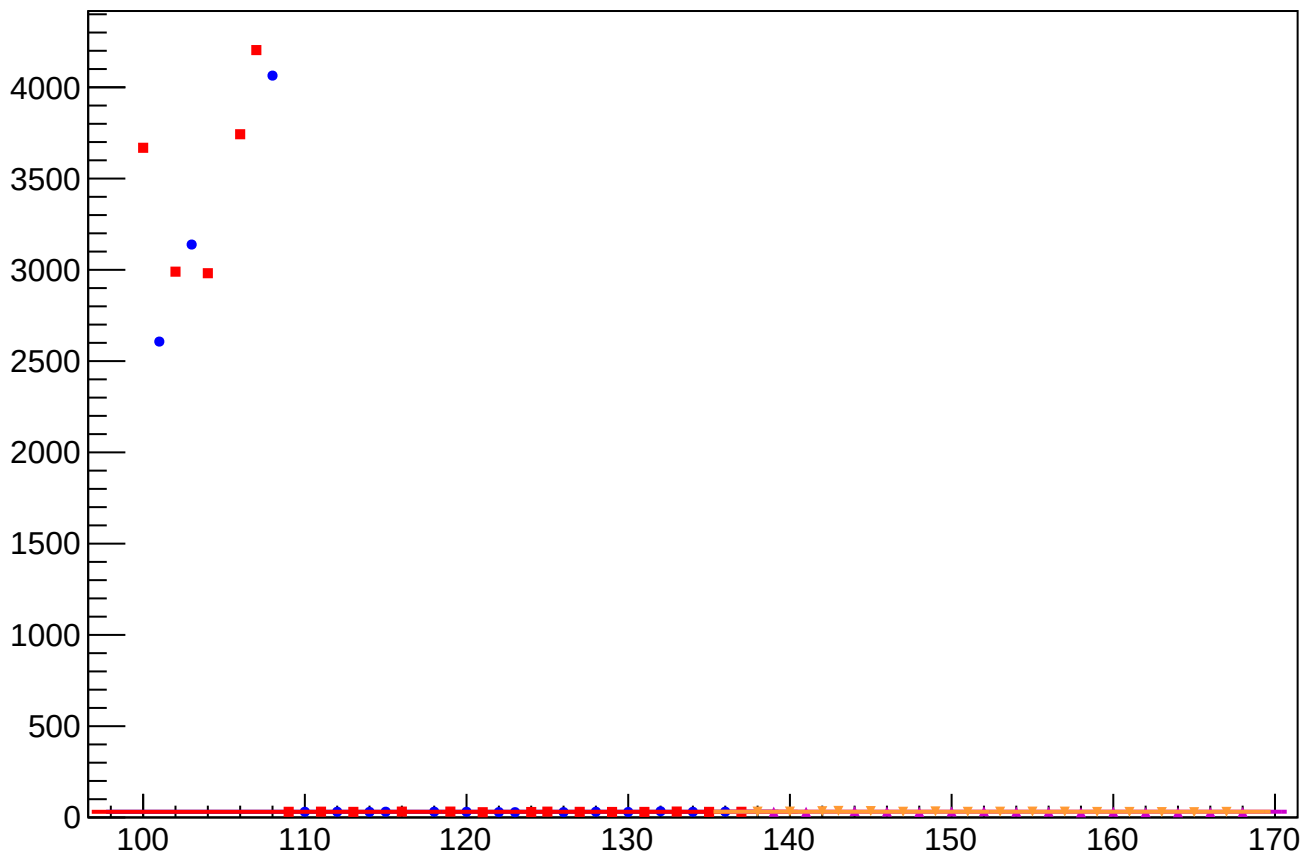
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 6.941+/-7.626 χ^2/NDF : 37.4/31

Out: -6.826+/-7.604 χ^2/NDF : 46.2/34

All: 0.037+/-5.385 χ^2/NDF : 85.2/66

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: 31.502 $\pm$ 0.006 χ^2 /NDF: 71898.9/15

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.369 $\pm$ 0.007 χ^2 /NDF: 80248.8/14

Left: 31.436 $\pm$ 0.005 χ^2 /NDF: 152357.3/30

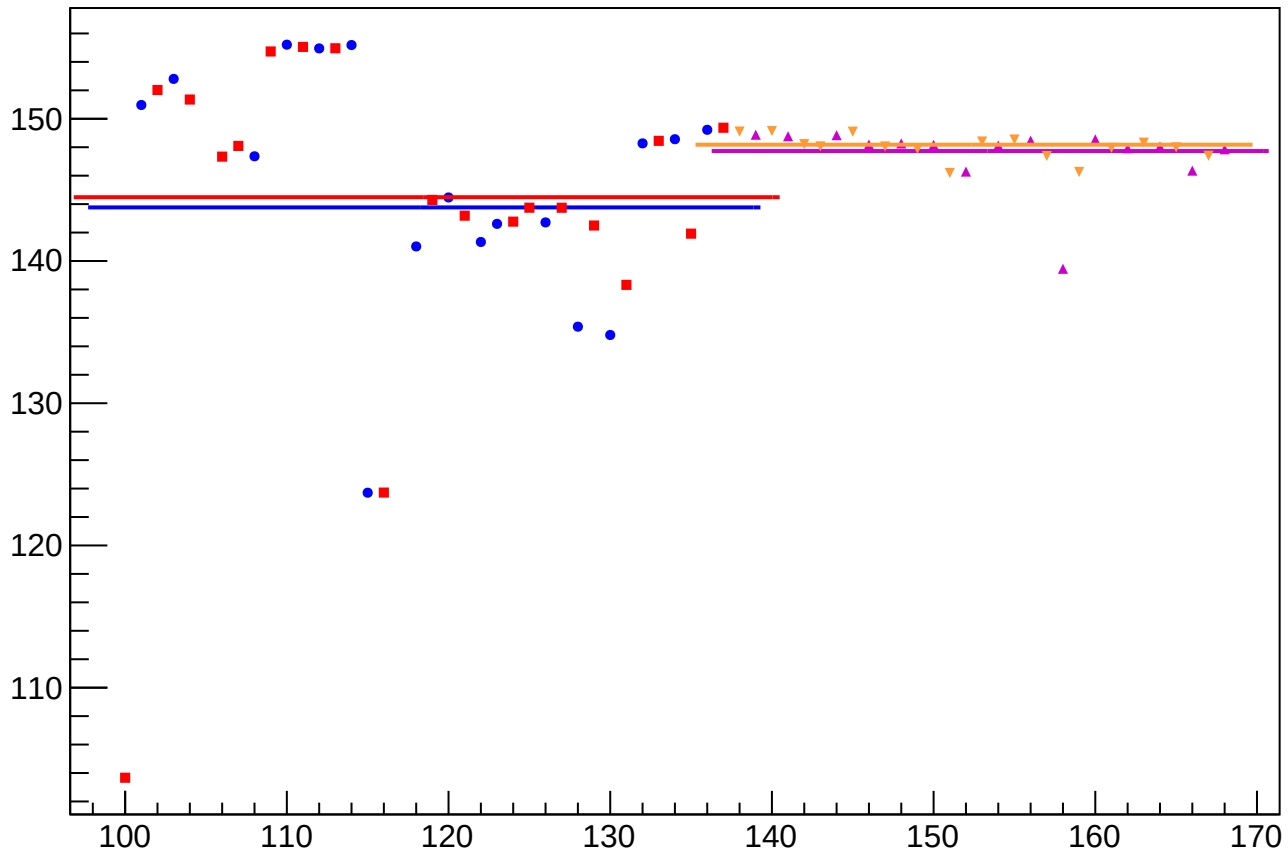
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.293 $\pm$ 0.005 χ^2 /NDF: 3095110.7/31

Out: 31.335 $\pm$ 0.005 χ^2 /NDF: 3532994.9/34

All: 31.314 $\pm$ 0.004 χ^2 /NDF: 6628135.7/66

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.177 $\pm$ 0.000 χ^2 /NDF: 52452126.2/15

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.732 $\pm$ 0.000 χ^2 /NDF: 324068147.4/14

Left: 147.960 $\pm$ 0.000 χ^2 /NDF: 383335760.6/30

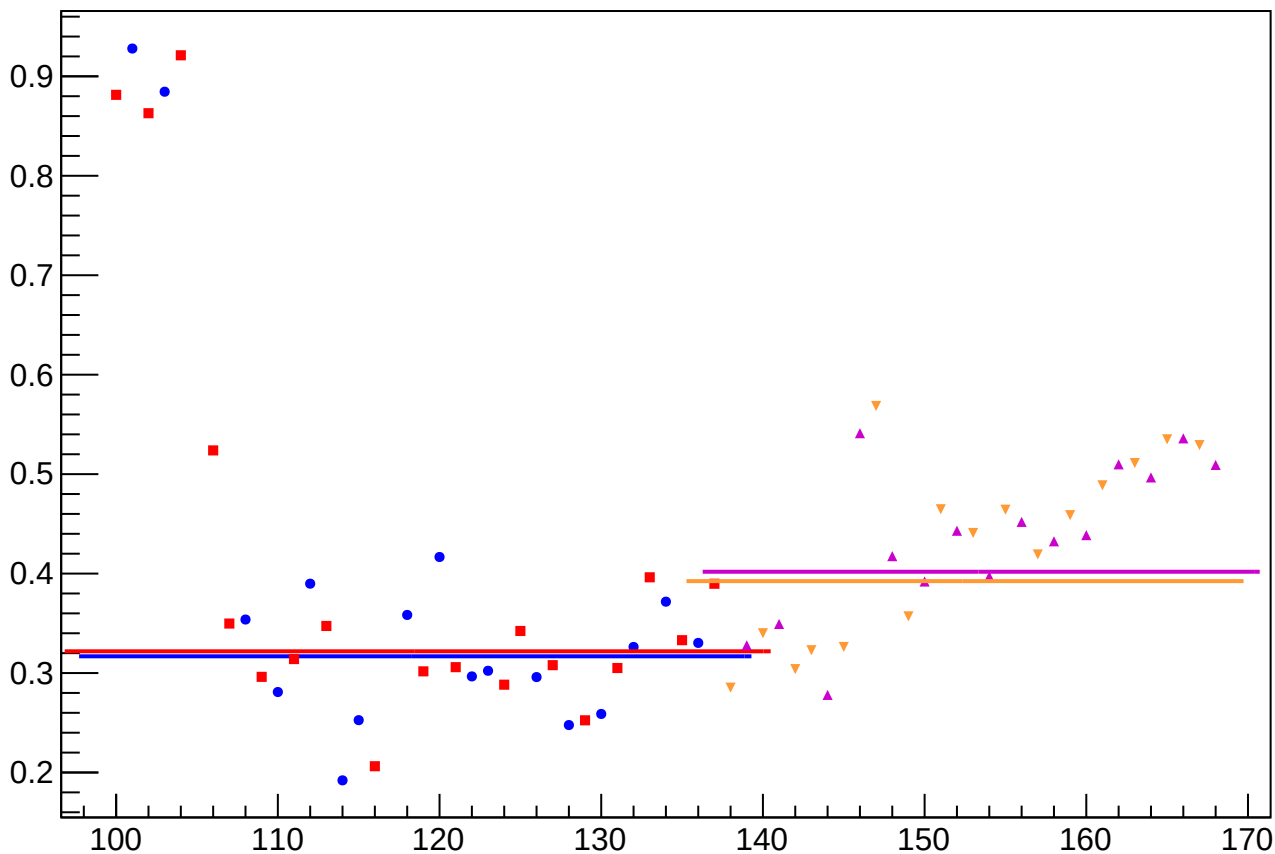
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 145.937 $\pm$ 0.000 χ^2 /NDF: 4334645252.5/31

Out: 146.538 $\pm$ 0.000 χ^2 /NDF: 4664671394.8/34

All: 146.243 $\pm$ 0.000 χ^2 /NDF: 9021927352.9

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.392 $\pm$ 0.000 χ^2 /NDF:1037052.2/15

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.402 $\pm$ 0.000 χ^2 /NDF:842040.9/14

Left: 0.397 $\pm$ 0.000 χ^2 /NDF: 1885232.7/30

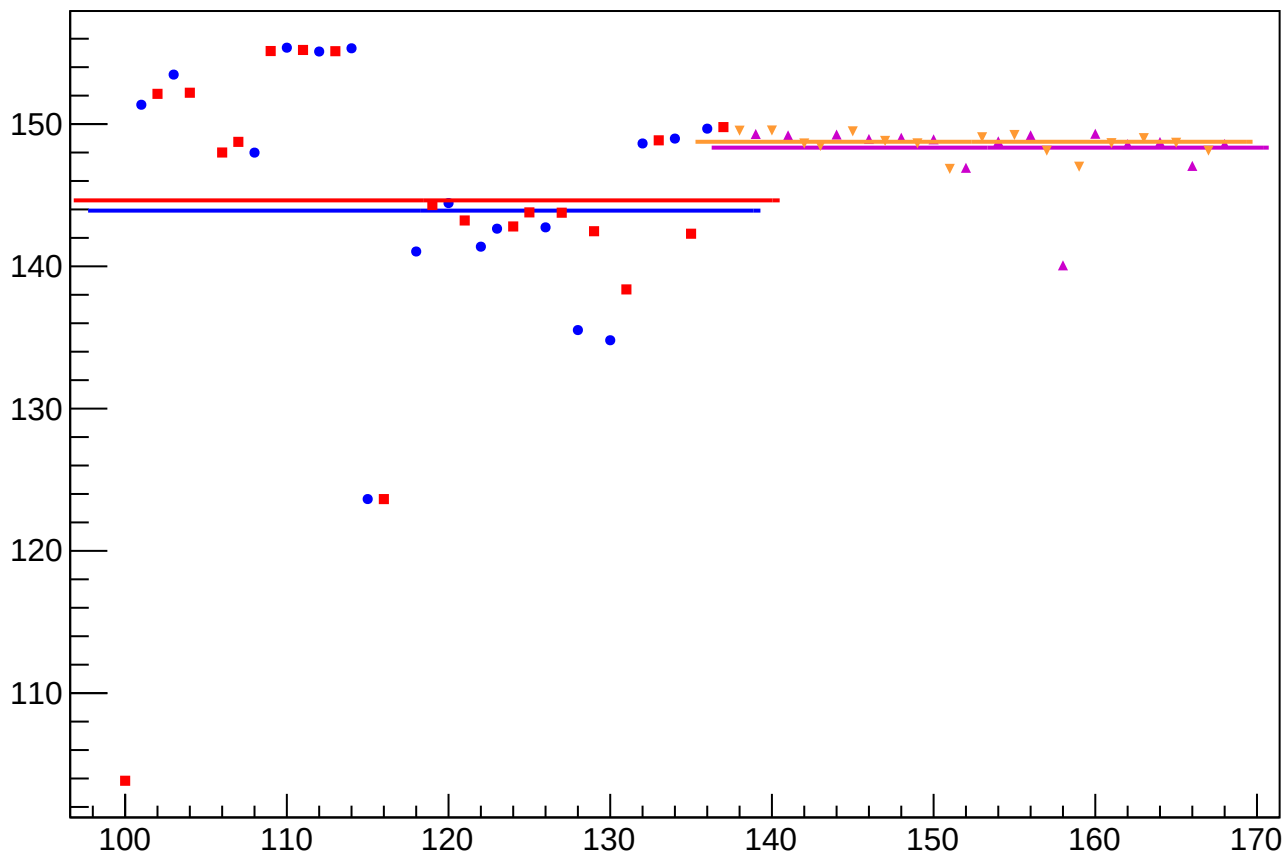
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.363 $\pm$ 0.000 χ^2 /NDF:2560981.8/31

Out: 0.361 $\pm$ 0.000 χ^2 /NDF:2568034.1/34

All: 0.362 $\pm$ 0.000 χ^2 /NDF: 5129644.8/66

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.756 $\pm$ 0.000 χ^2 /NDF: 40946884.6/15

Right Out: 144.637 $\pm$ 0.000 χ^2 /NDF: 4210524953.9/18

Left In: 148.343 $\pm$ 0.000 χ^2 /NDF: 313200825.9/14

Left: 148.555 $\pm$ 0.000 χ^2 /NDF: 359900714.7/30

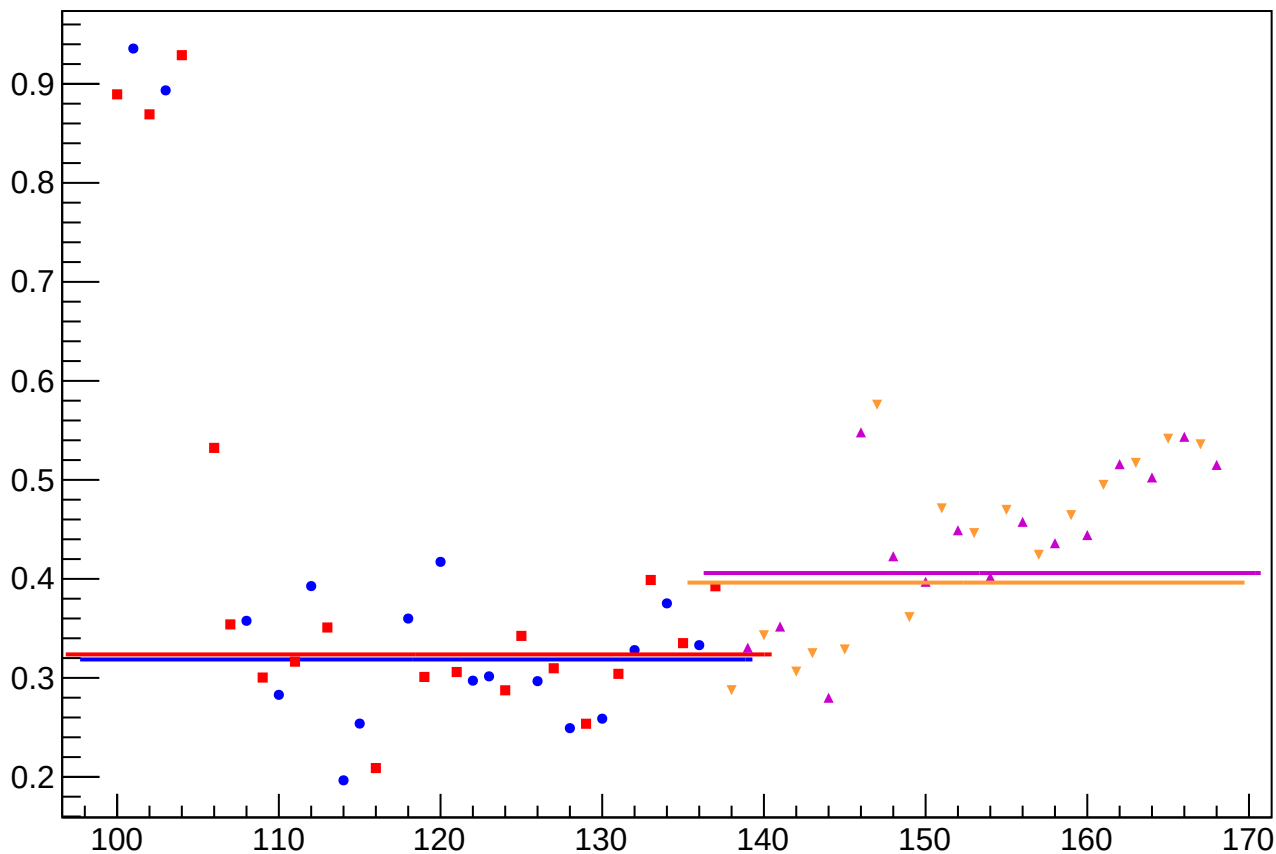
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.328 $\pm$ 0.000 χ^2 /NDF: 4485277442.6/31

Out: 146.918 $\pm$ 0.000 χ^2 /NDF: 4777128995.0/34

All: 146.628 $\pm$ 0.000 χ^2 /NDF: 9283864378.8

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.396 $\pm$ 0.000 χ^2/NDF : 1056155.3/15

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1220898.3/18

Left In: 0.406 $\pm$ 0.000 χ^2/NDF : 859267.7/14

Left: 0.401 $\pm$ 0.000 χ^2/NDF : 1921716.7/30

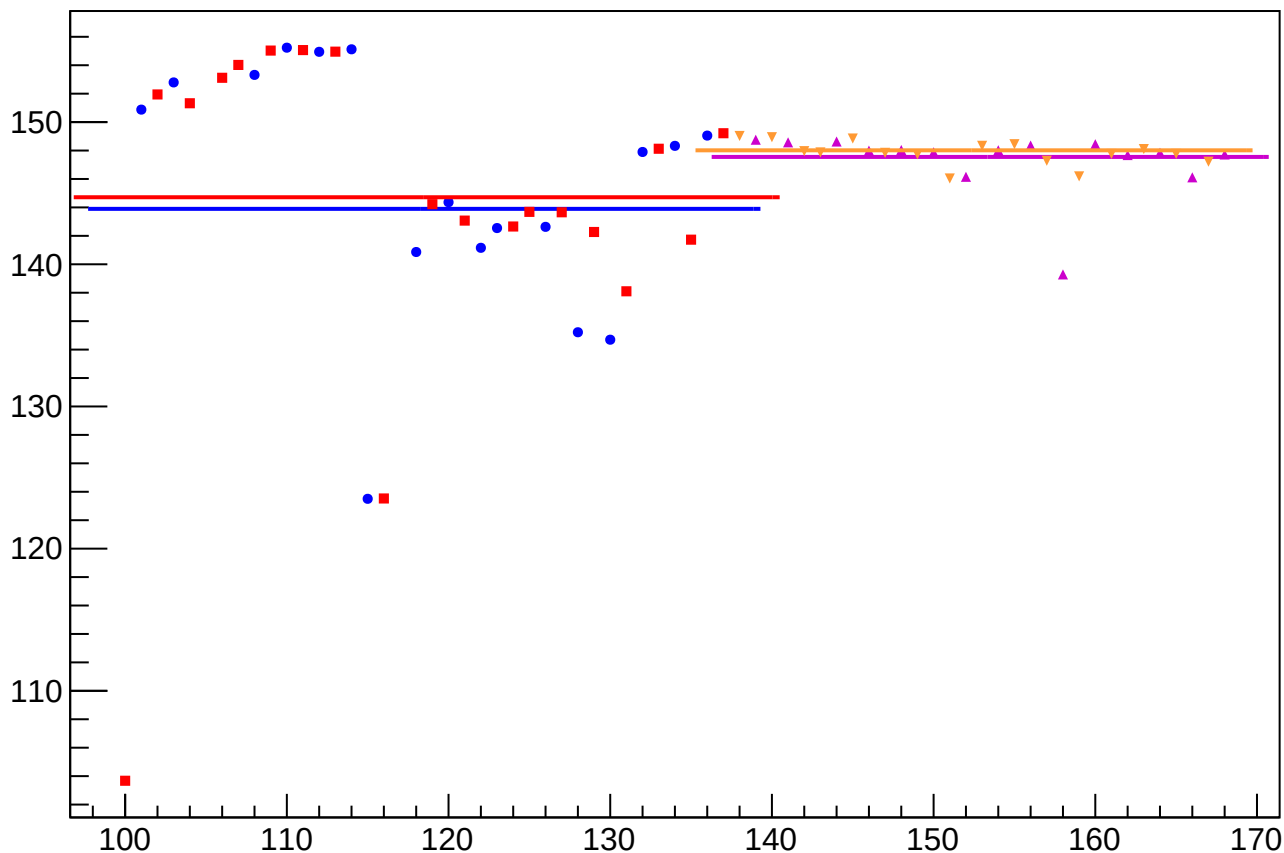
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2503090.8/35

In: 0.366 $\pm$ 0.000 χ^2/NDF : 2596946.3/31

Out: 0.364 $\pm$ 0.000 χ^2/NDF : 2603161.3/34

All: 0.365 $\pm$ 0.000 χ^2/NDF : 5200739.2/66

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.015 $\pm$ 0.000 χ^2 /NDF: 50924807.6/15

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.551 $\pm$ 0.000 χ^2 /NDF: 322960966.7/14

Left: 147.789 $\pm$ 0.000 χ^2 /NDF: 381259002.2/30

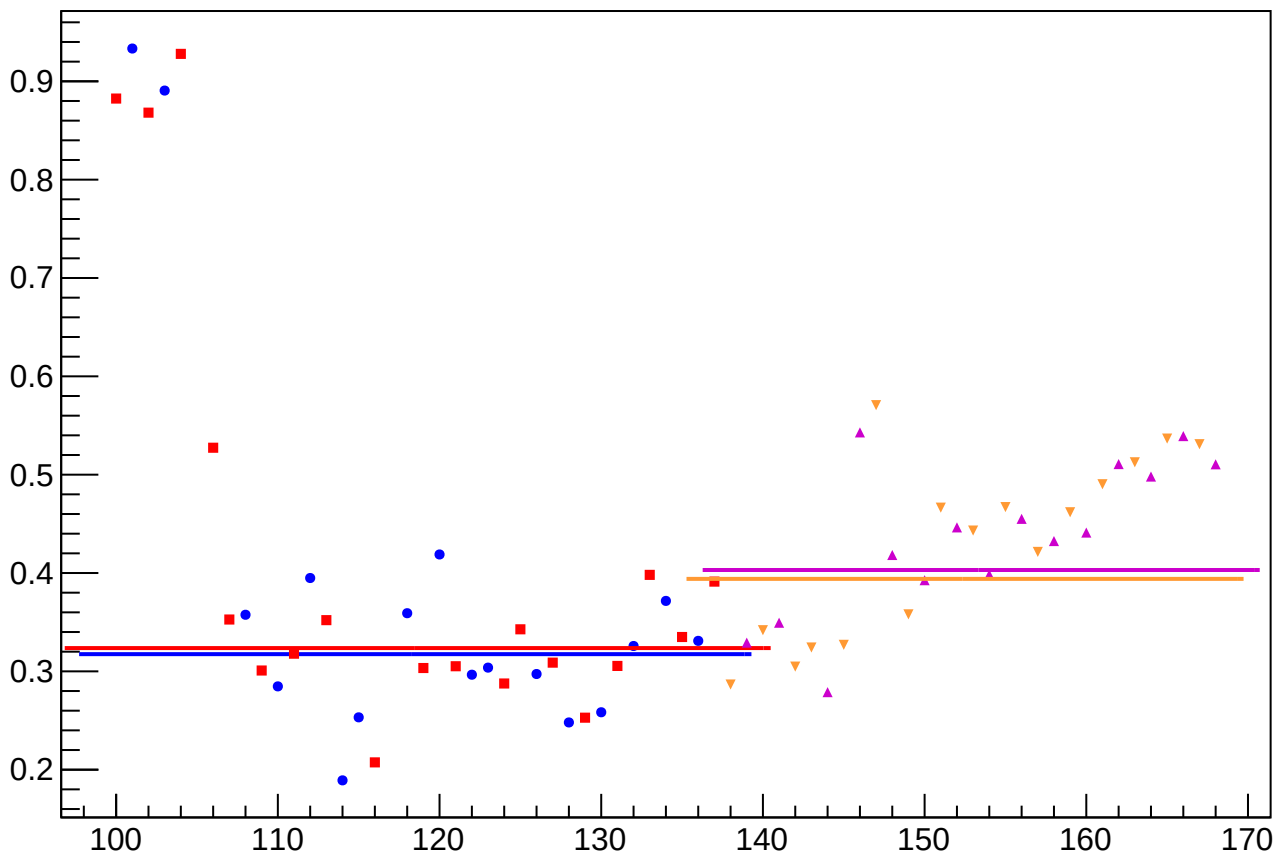
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.897 $\pm$ 0.000 χ^2 /NDF: 4476595827.5/31

Out: 146.552 $\pm$ 0.000 χ^2 /NDF: 4864645256.1/34

All: 146.230 $\pm$ 0.000 χ^2 /NDF: 9367925007.5

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.394 $\pm$ 0.000 χ^2 /NDF:1037990.5/15

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.403 $\pm$ 0.000 χ^2 /NDF:846334.7/14

Left: 0.398 $\pm$ 0.000 χ^2 /NDF: 1889912.0/30

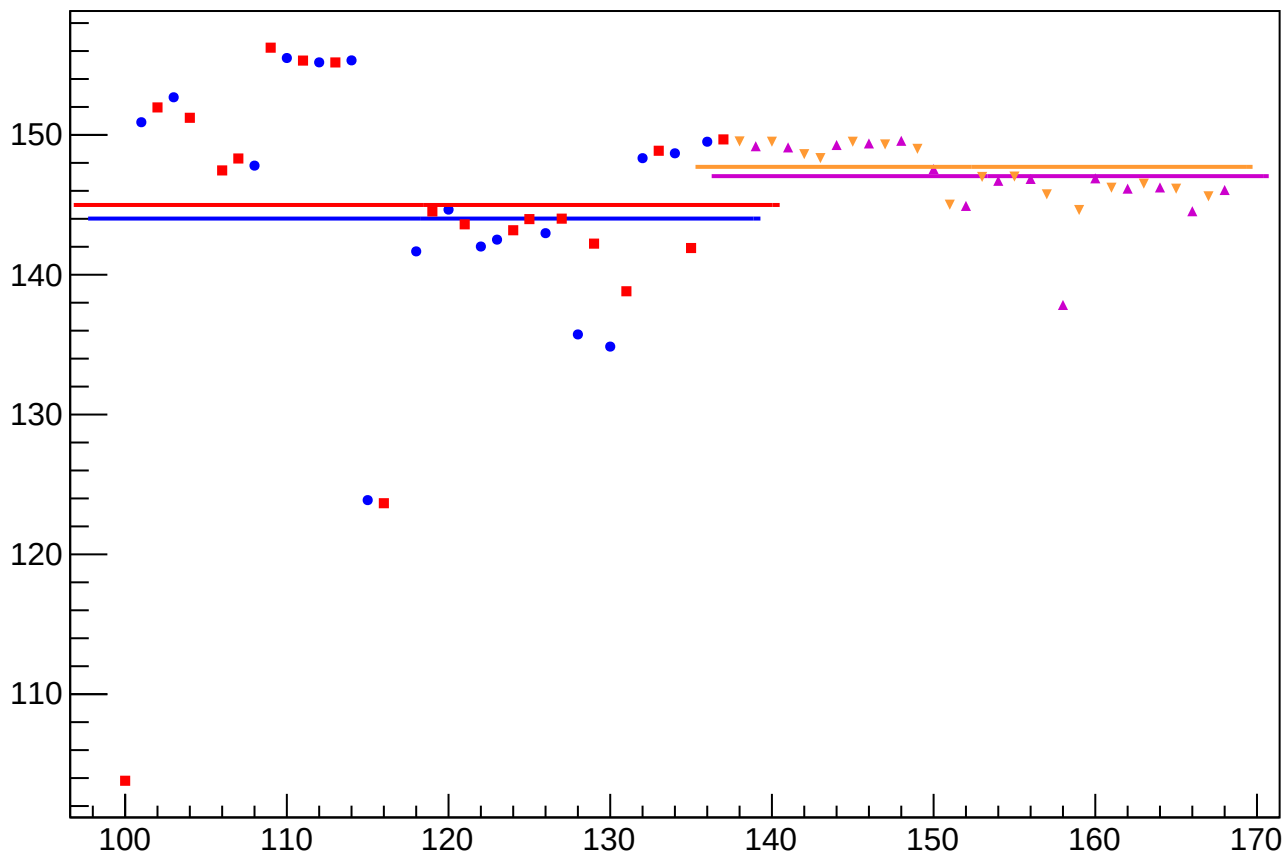
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.364 $\pm$ 0.000 χ^2 /NDF:2582746.2/31

Out: 0.363 $\pm$ 0.000 χ^2 /NDF:2568203.8/34

All: 0.364 $\pm$ 0.000 χ^2 /NDF: 5151215.5/66

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.716 $\pm$ 0.000 χ^2 /NDF: 189460291.5/15

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 147.052 $\pm$ 0.000 χ^2 /NDF: 500829061.8/14

Left: 147.392 $\pm$ 0.000 χ^2 /NDF: 704337015.3/30

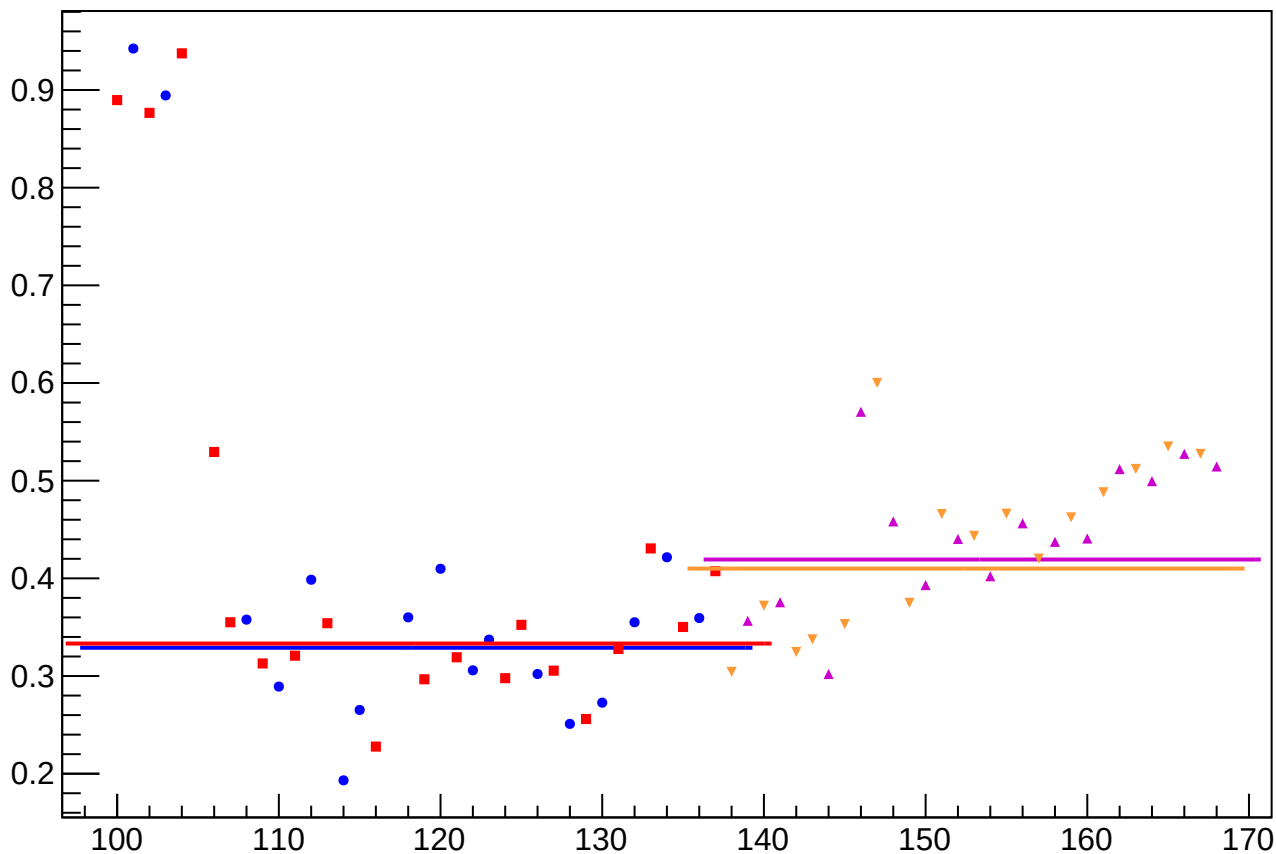
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.680 $\pm$ 0.000 χ^2 /NDF: 3998506340.9/31

Out: 146.499 $\pm$ 0.000 χ^2 /NDF: 4259697843.7/34

All: 146.097 $\pm$ 0.000 χ^2 /NDF: 8297029756.2

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.410+/-0.000 χ^2/NDF : 808148.7/15

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.419+/-0.000 χ^2/NDF : 641513.5/14

Left: 0.415+/-0.000 χ^2/NDF : 1455147.2/30

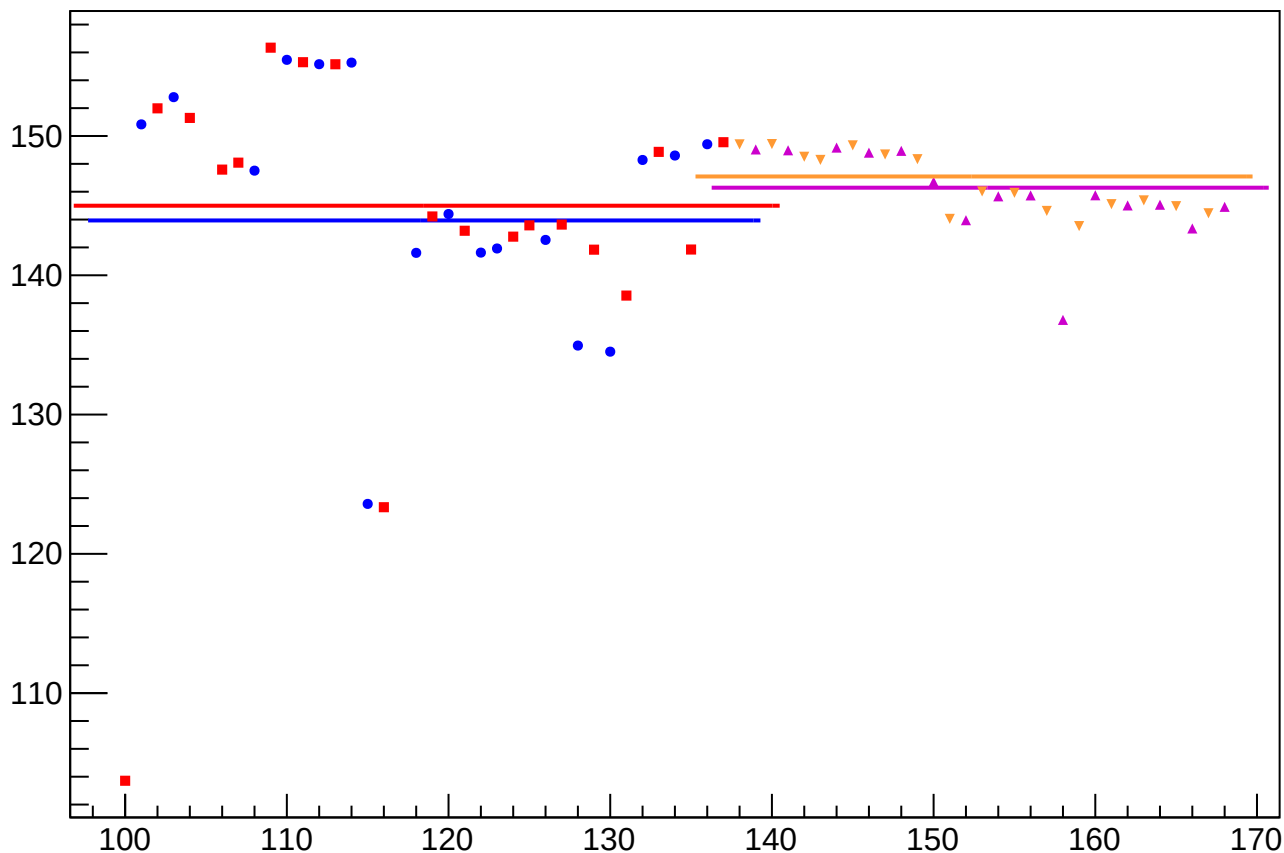
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.378+/-0.000 χ^2/NDF : 2377131.7/31

Out: 0.376+/-0.000 χ^2/NDF : 2334503.9/34

All: 0.377+/-0.000 χ^2/NDF : 4712478.3/66

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 147.094 $\pm$ 0.000 χ^2 /NDF: 290209981.7/15

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3934069043.2/18

Left In: 146.288 $\pm$ 0.000 χ^2 /NDF: 617776287.9/14

Left: 146.701 $\pm$ 0.000 χ^2 /NDF: 928582365.6/30

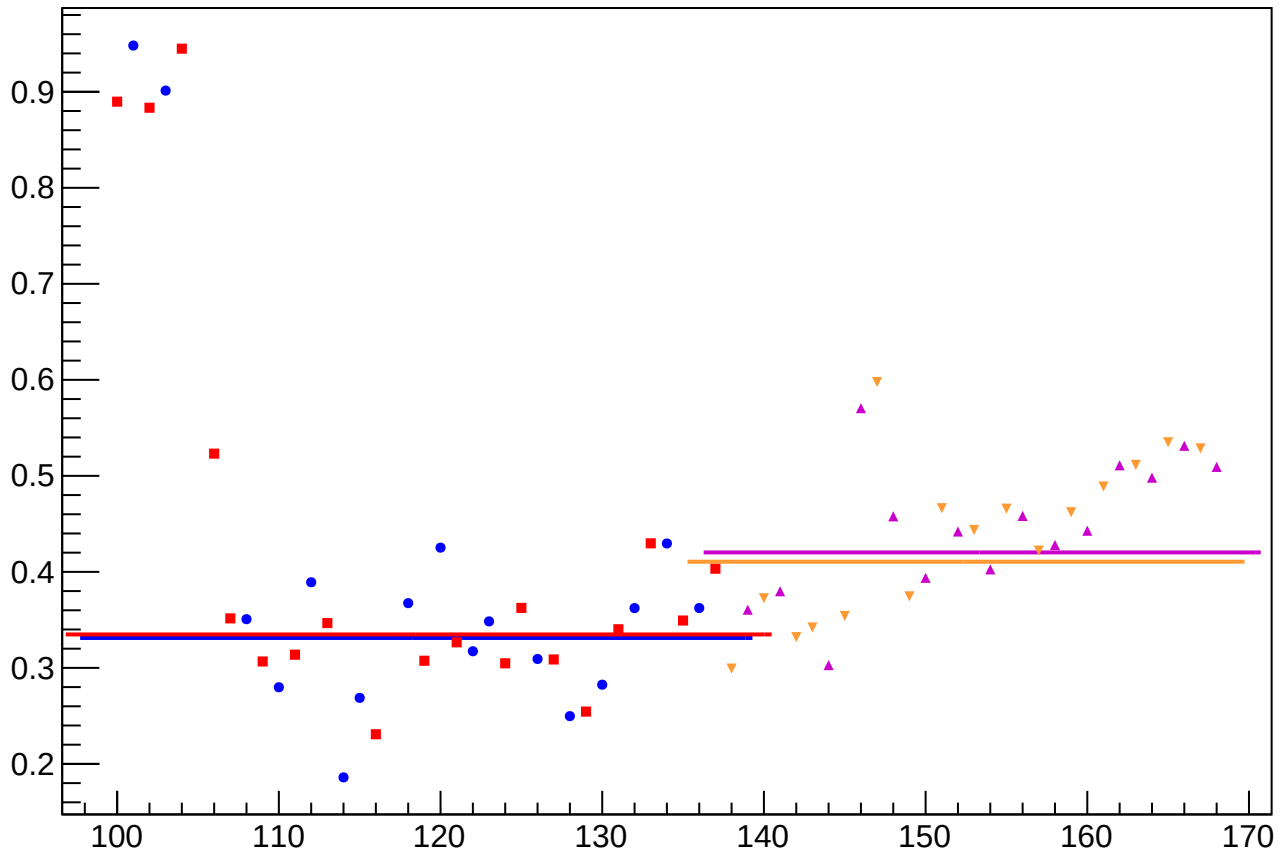
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.232 $\pm$ 0.000 χ^2 /NDF: 4150730486.9/31

Out: 146.160 $\pm$ 0.000 χ^2 /NDF: 4351789040.3/34

All: 145.705 $\pm$ 0.000 χ^2 /NDF: 8551978605.6

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.411+/-0.000 χ^2/NDF : 806706.6/15

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.420+/-0.000 χ^2/NDF : 619555.1/14

Left: 0.415+/-0.000 χ^2/NDF : 1432209.7/30

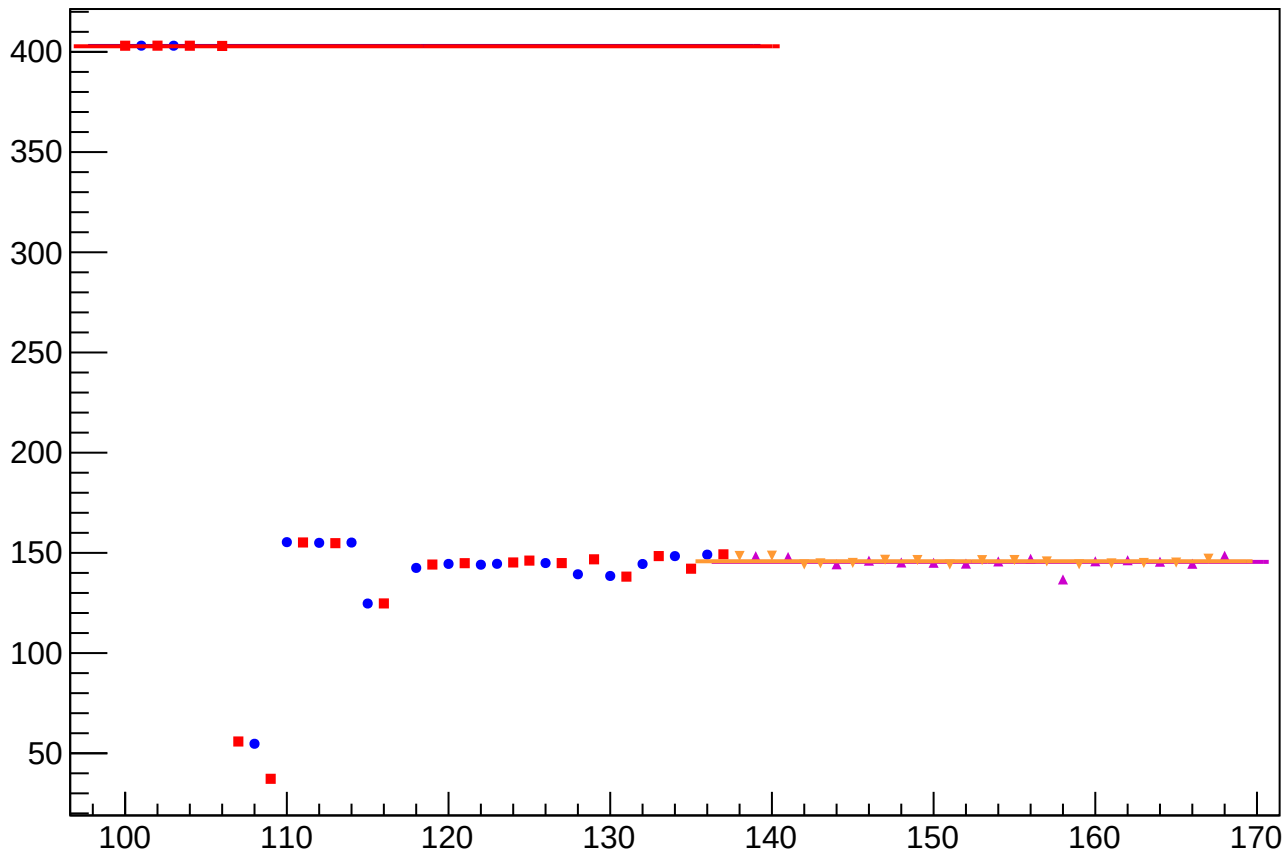
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.380+/-0.000 χ^2/NDF : 2356737.2/31

Out: 0.377+/-0.000 χ^2/NDF : 2311024.1/34

All: 0.379+/-0.000 χ^2/NDF : 4669050.2/66

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1096710296821.6/16

Left: 145.655+/-0.000

χ^2/NDF : 192840754.3/30

Left Out: 145.807+/-0.000

χ^2/NDF : 44279120.4/15

Right: 402.873+/-0.000

χ^2/NDF : 4201017642924.7/16

Right Out: 402.799+/-0.000

χ^2/NDF : 3103890772575.4/18

In: 402.764+/-0.000

χ^2/NDF : 2646940175979.4/30

Left In: 145.504+/-0.000

χ^2/NDF : 147491715.4/14

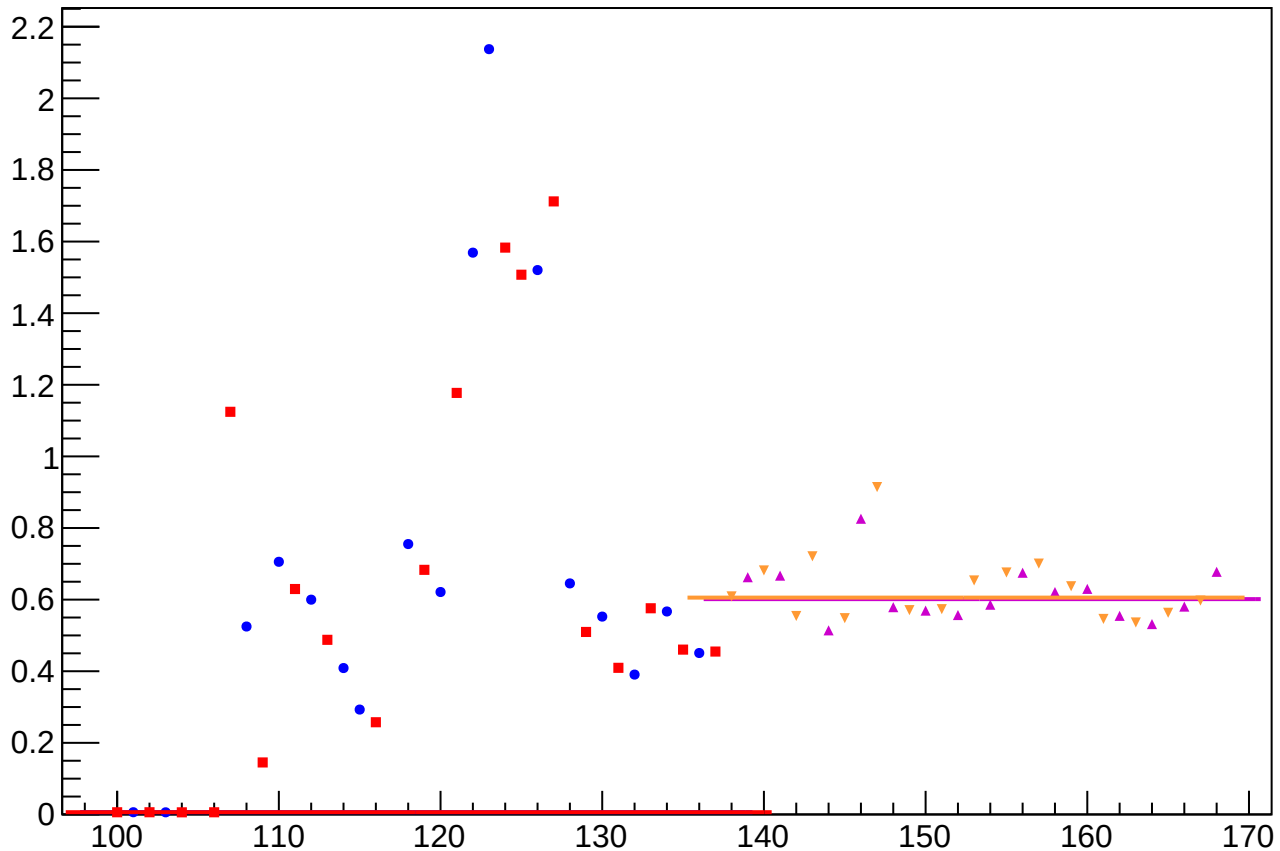
Out: 402.630+/-0.000

χ^2/NDF : 4634672830147.6/30

All: 402.693+/-0.000

χ^2/NDF : 728191170153.4/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.606+/-0.000 χ^2/NDF : 255524.1/15

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.601+/-0.000 χ^2/NDF : 210022.5/14

Left: 0.603+/-0.000 χ^2/NDF : 465963.2/30

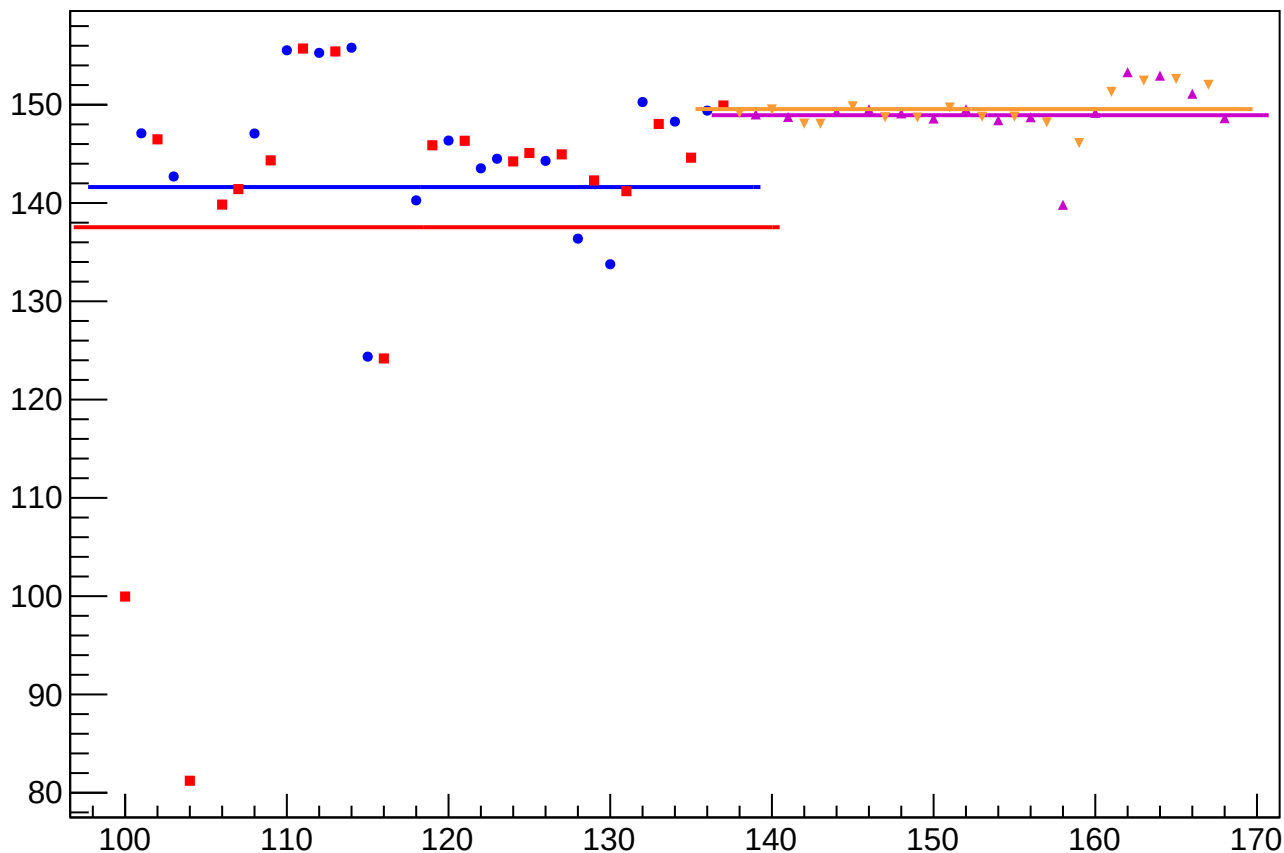
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 25932609.0/31

Out: 0.007+/-0.000 χ^2/NDF : 26116312.7/34

All: 0.007+/-0.000 χ^2/NDF : 52049057.9/66

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.556 $\pm$ 0.000 χ^2 /NDF: 119006531.1/15

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 148.932 $\pm$ 0.000 χ^2 /NDF: 363121639.1/14

Left: 149.256 $\pm$ 0.000 χ^2 /NDF: 489322272.3/30

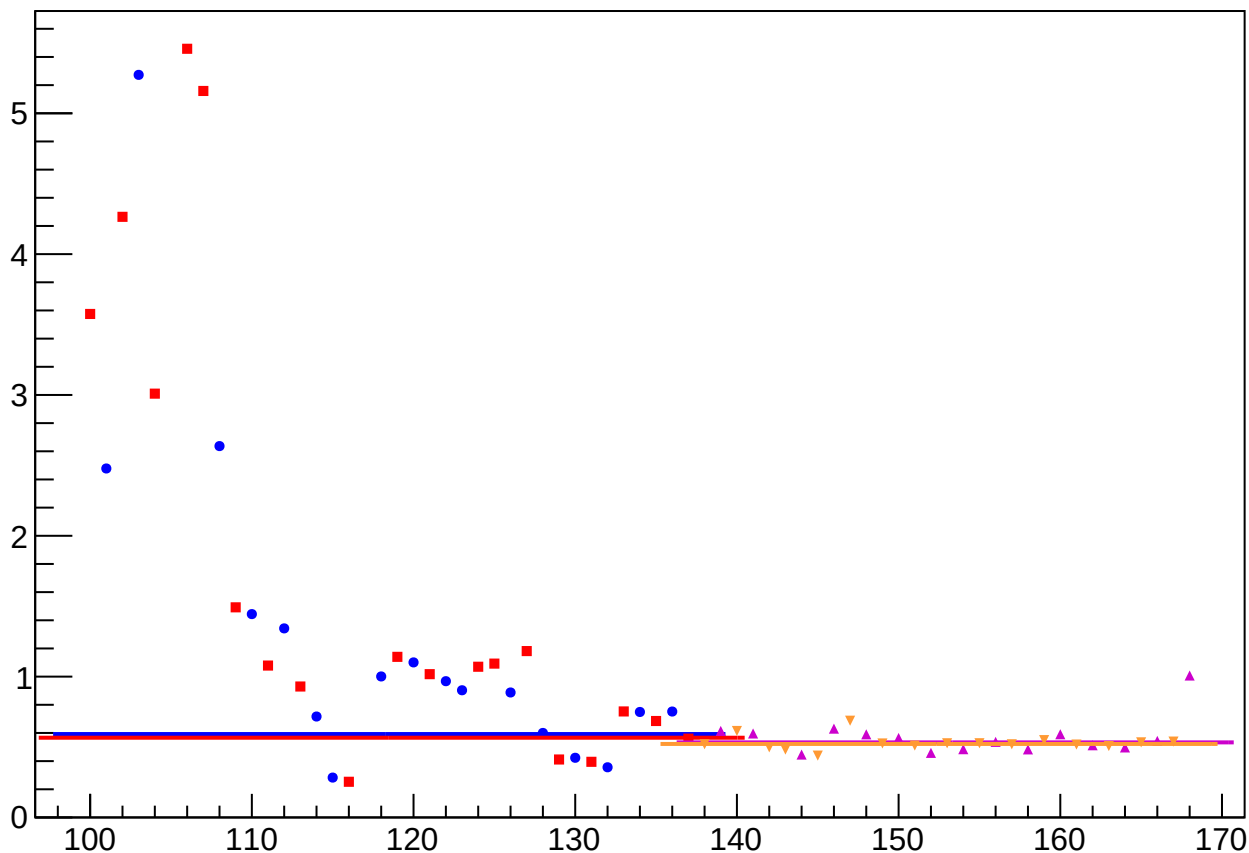
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.315 $\pm$ 0.000 χ^2 /NDF: 1766297335.8/31

Out: 146.953 $\pm$ 0.000 χ^2 /NDF: 2636917695.9/34

All: 147.128 $\pm$ 0.000 χ^2 /NDF: 4406313231.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592+/-0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.522+/-0.000 χ^2/NDF :171472.2/15

Right Out: 0.566+/-0.000 χ^2/NDF : 4682140.9/18

Left In: 0.533+/-0.000 χ^2/NDF :544395.5/14

Left: 0.527+/-0.000 χ^2/NDF : 720415.7/30

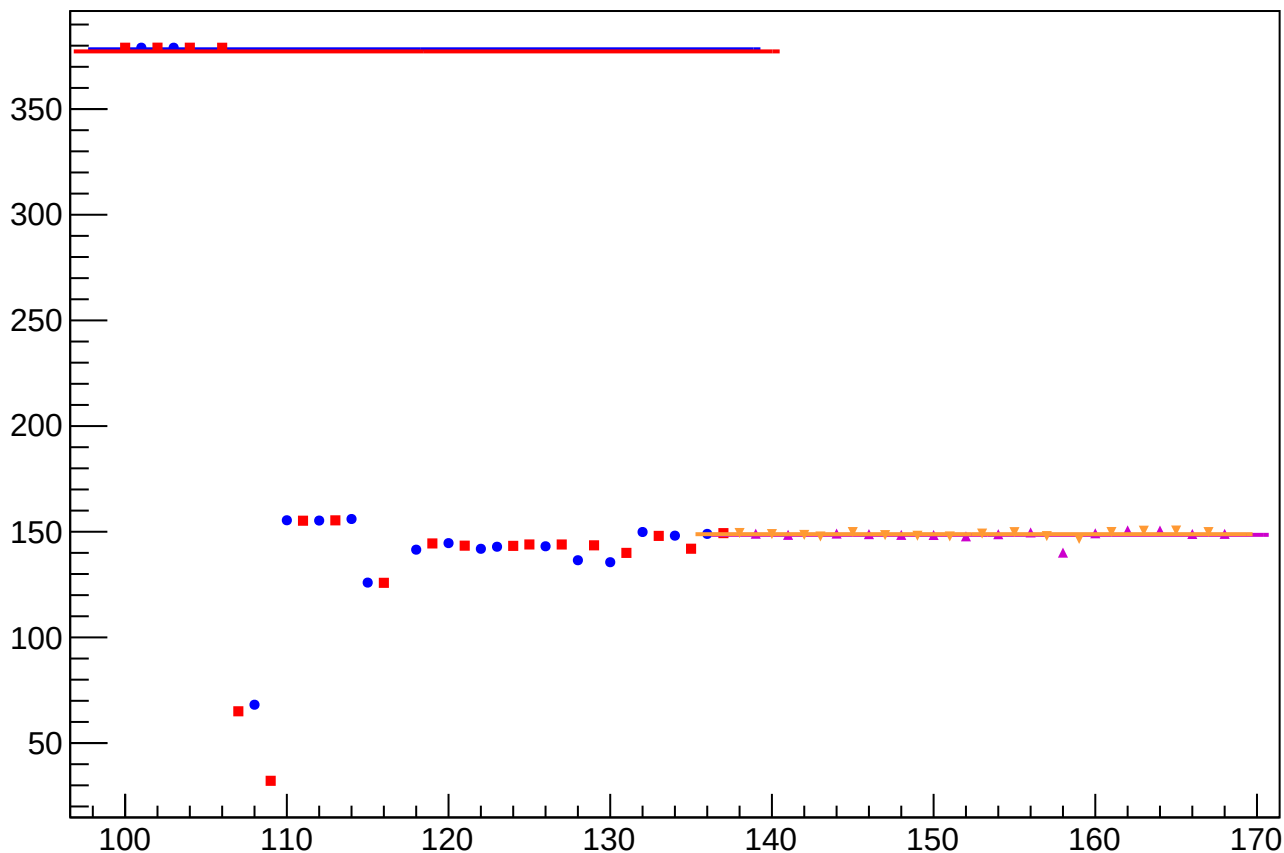
Right: 0.579+/-0.000 χ^2/NDF : 8210771.7/35

In: 0.546+/-0.000 χ^2/NDF :4121159.4/31

Out: 0.532+/-0.000 χ^2/NDF :4886087.1/34

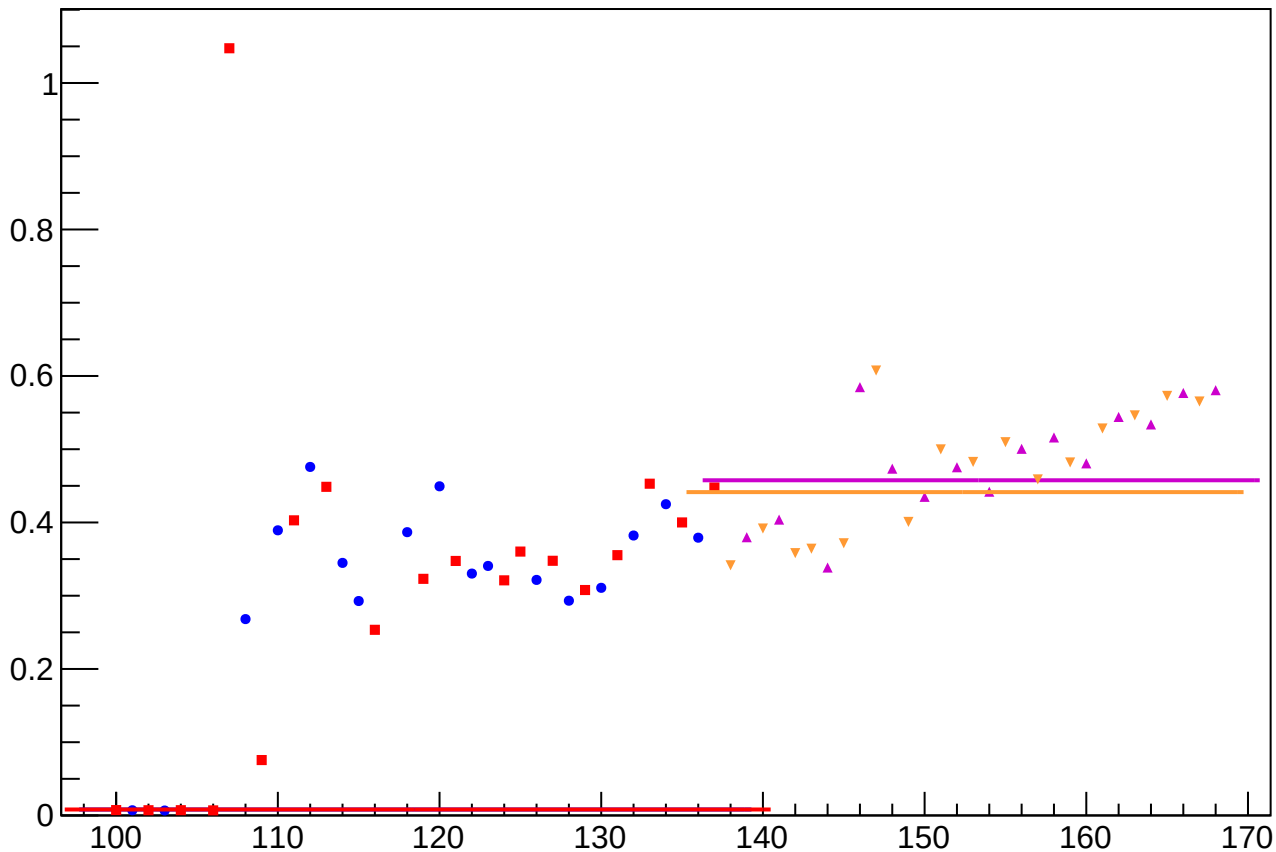
All: 0.539+/-0.000 χ^2/NDF : 9017358.8/66

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.690+/-0.000	χ^2/NDF : 295865494.4/30
Left Out: 148.836+/-0.000	χ^2/NDF : 59897736.4/15	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.0
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.376+/-0.000	χ^2/NDF : 5282121743936.3/30
Left In: 148.531+/-0.000	χ^2/NDF : 233424625.0/14	Out: 376.434+/-0.000	χ^2/NDF : 11244417868478.0
		All: 376.874+/-0.000	χ^2/NDF : 165328562936.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.441 $\pm$ 0.000 χ^2 /NDF:731388.2/15

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.458 $\pm$ 0.000 χ^2 /NDF:593322.0/14

Left: 0.449 $\pm$ 0.000 χ^2 /NDF: 1339021.6/30

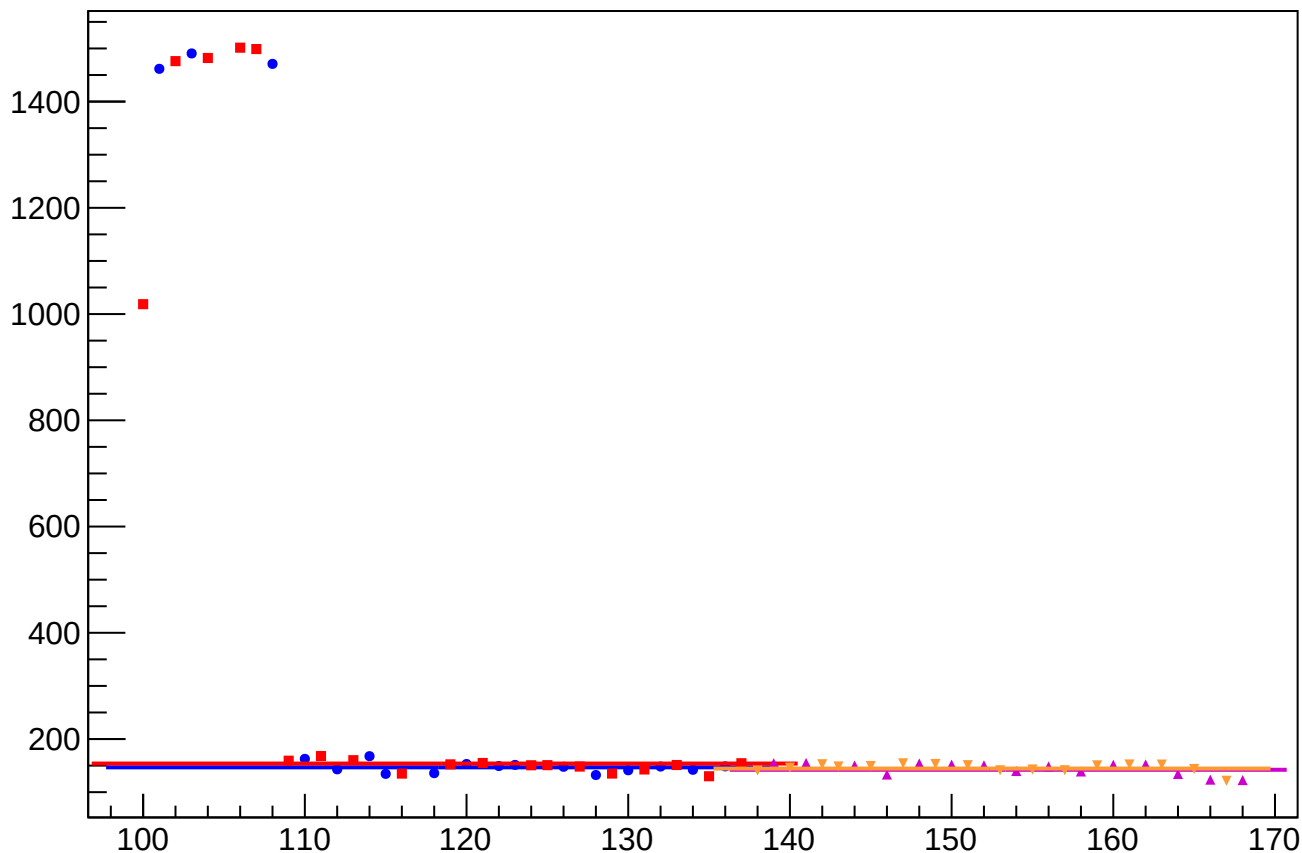
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:31680481.5/31

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:31598009.6/34

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 63278732.6/66

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 144.429+/-0.000 χ^2/NDF : 1167220985.9/15

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

Left In: 142.133+/-0.000 χ^2/NDF : 1769687290.6/14

Left: 143.277+/-0.000 χ^2/NDF : 2971104857.1/30

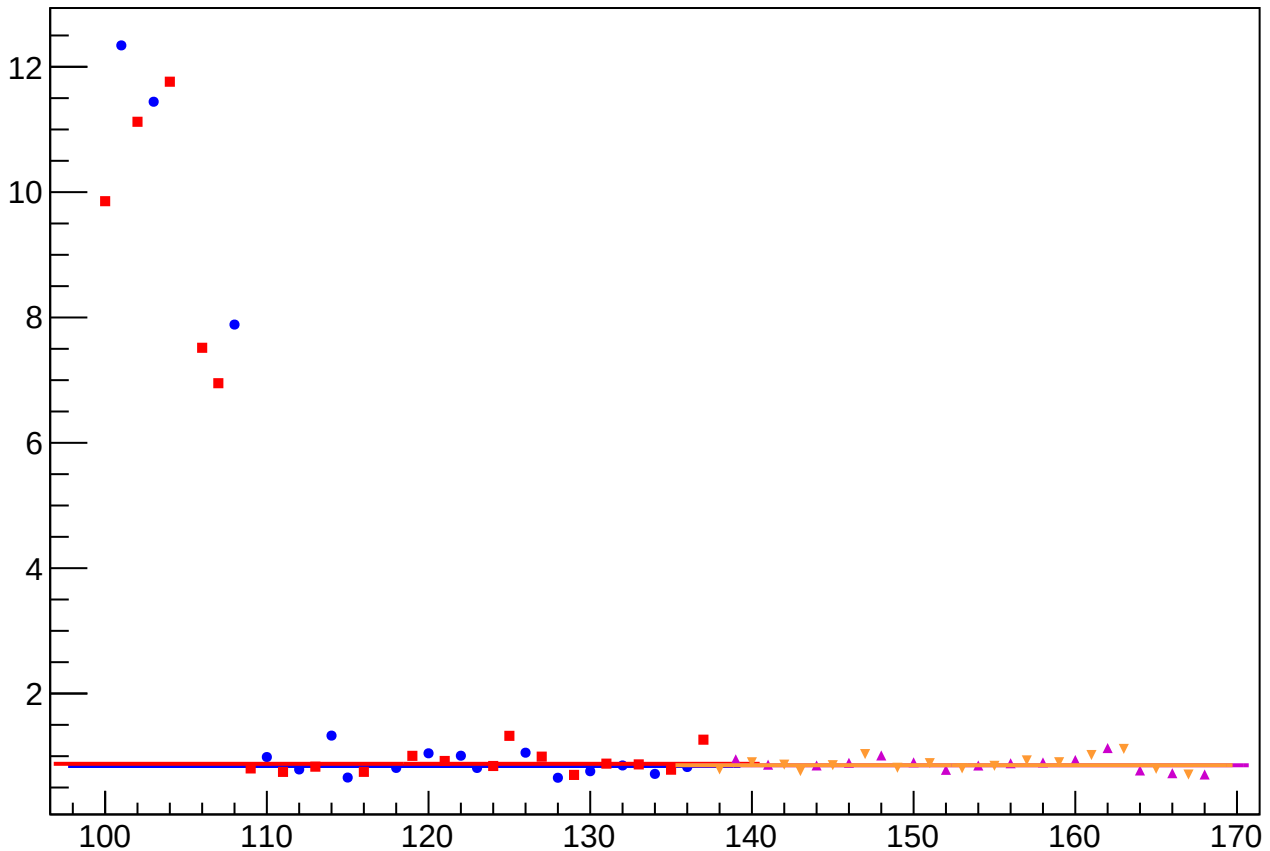
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 143.471+/-0.000 χ^2/NDF : 26200482705.0/31

Out: 147.176+/-0.000 χ^2/NDF : 35241155654.8/34

All: 145.316+/-0.000 χ^2/NDF : 61567236558.0/69

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.856+/-0.000 χ^2/NDF : 262236.6/15

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.855+/-0.000 χ^2/NDF : 267727.0/14

Left: 0.856+/-0.000 χ^2/NDF : 529977.3/30

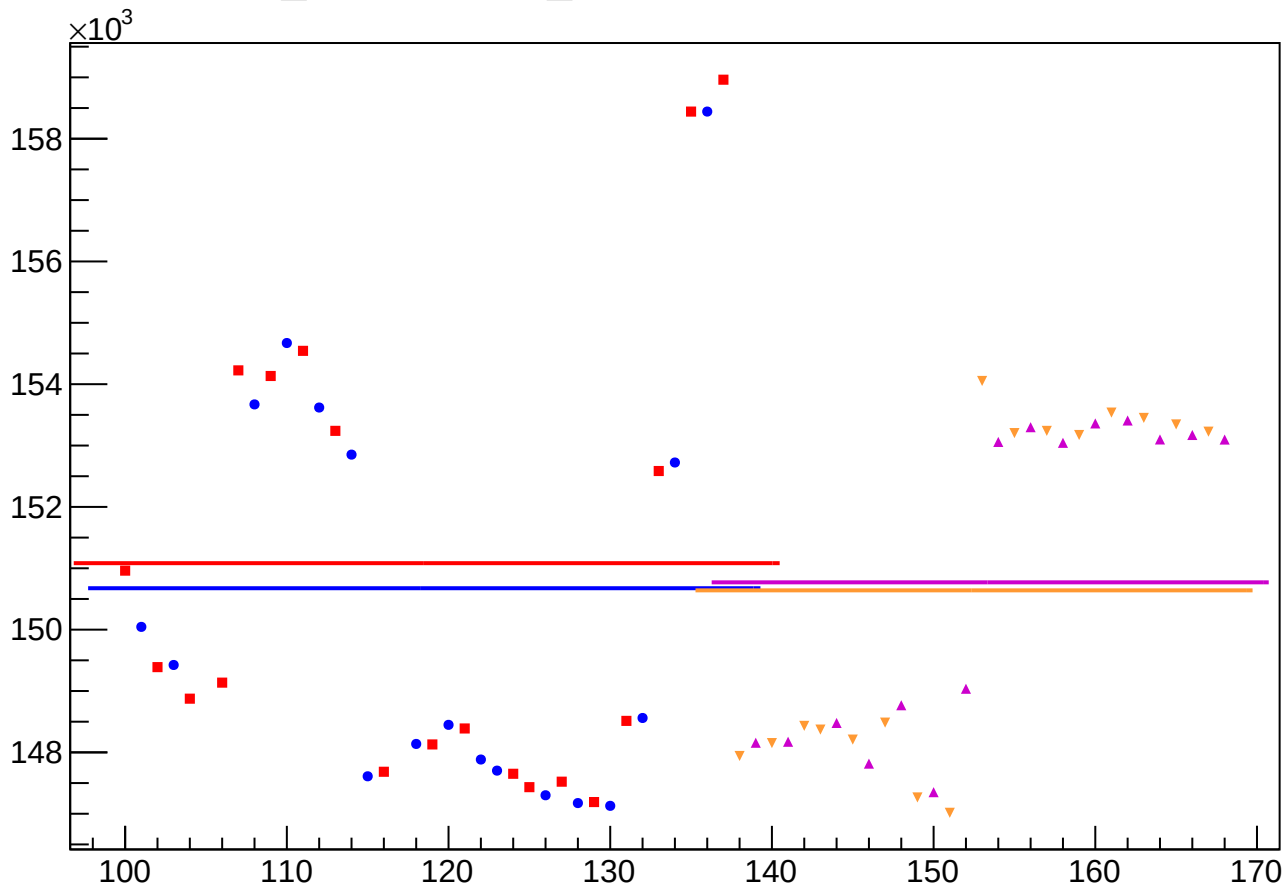
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.852+/-0.000 χ^2/NDF : 2939181.3/31

Out: 0.862+/-0.000 χ^2/NDF : 3078461.5/34

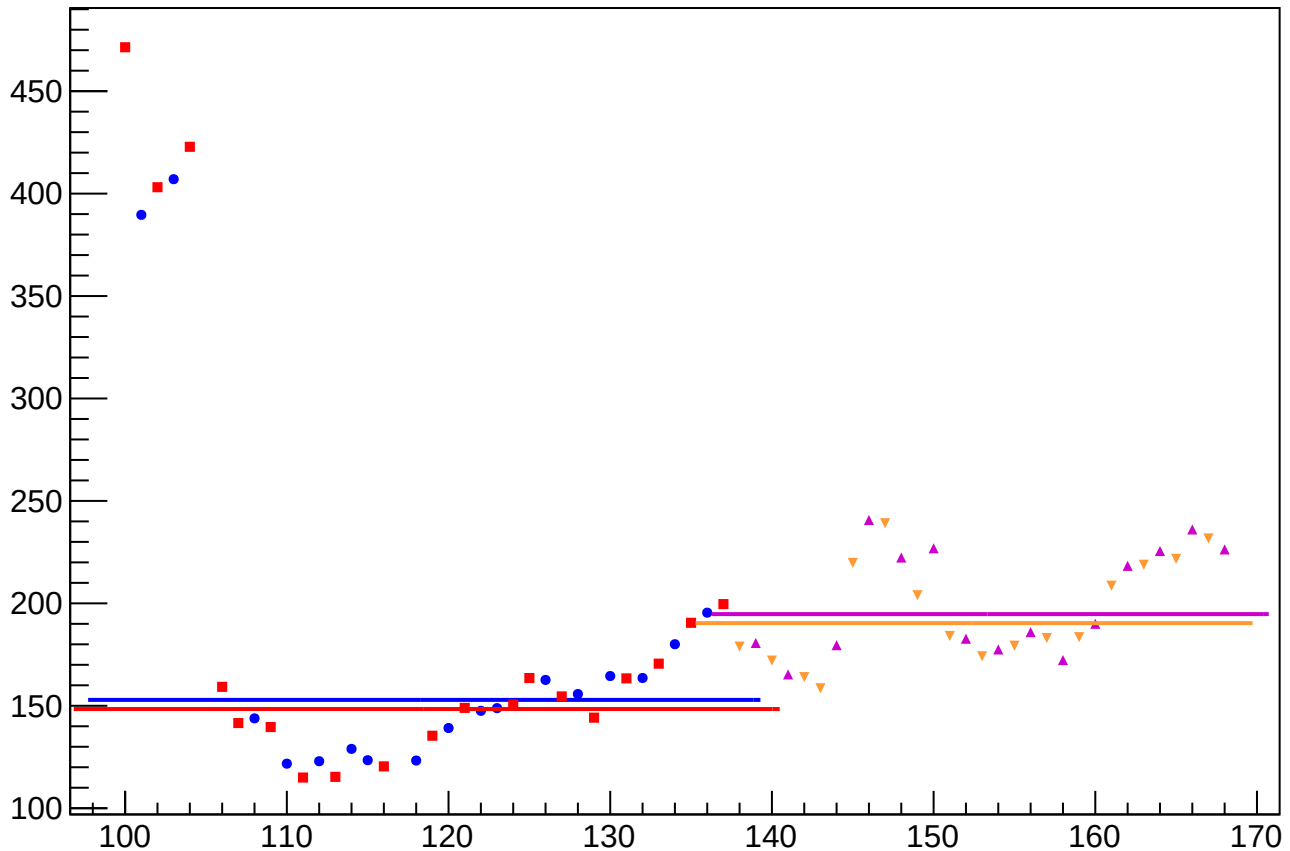
All: 0.857+/-0.000 χ^2/NDF : 6019784.4/66

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 150703.563 $\pm$ 0.040	χ^2 /NDF: 4274796611.3/3
Left Out: 150640.310 $\pm$ 0.056	χ^2 /NDF: 2448474795.1/15	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1/1
Right Out: 151083.268 $\pm$ 0.060	χ^2 /NDF: 3300830370.5/18	In: 150727.105 $\pm$ 0.043	χ^2 /NDF: 5134918939.6/3
Left In: 150770.943 $\pm$ 0.058	χ^2 /NDF: 1823683941.0/14	Out: 150847.543 $\pm$ 0.041	χ^2 /NDF: 5778610068.6/3
		All: 150789.831 $\pm$ 0.029	χ^2 /NDF: 10917698

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883+/-0.045 χ^2/NDF : 1154088.7/16

Left Out: 190.346+/-0.040 χ^2/NDF : 333094.0/15

Right Out: 148.418+/-0.042 χ^2/NDF : 1191577.6/18

Left In: 194.755+/-0.041 χ^2/NDF : 349993.4/14

Left: 192.481+/-0.028 χ^2/NDF : 689096.1/30

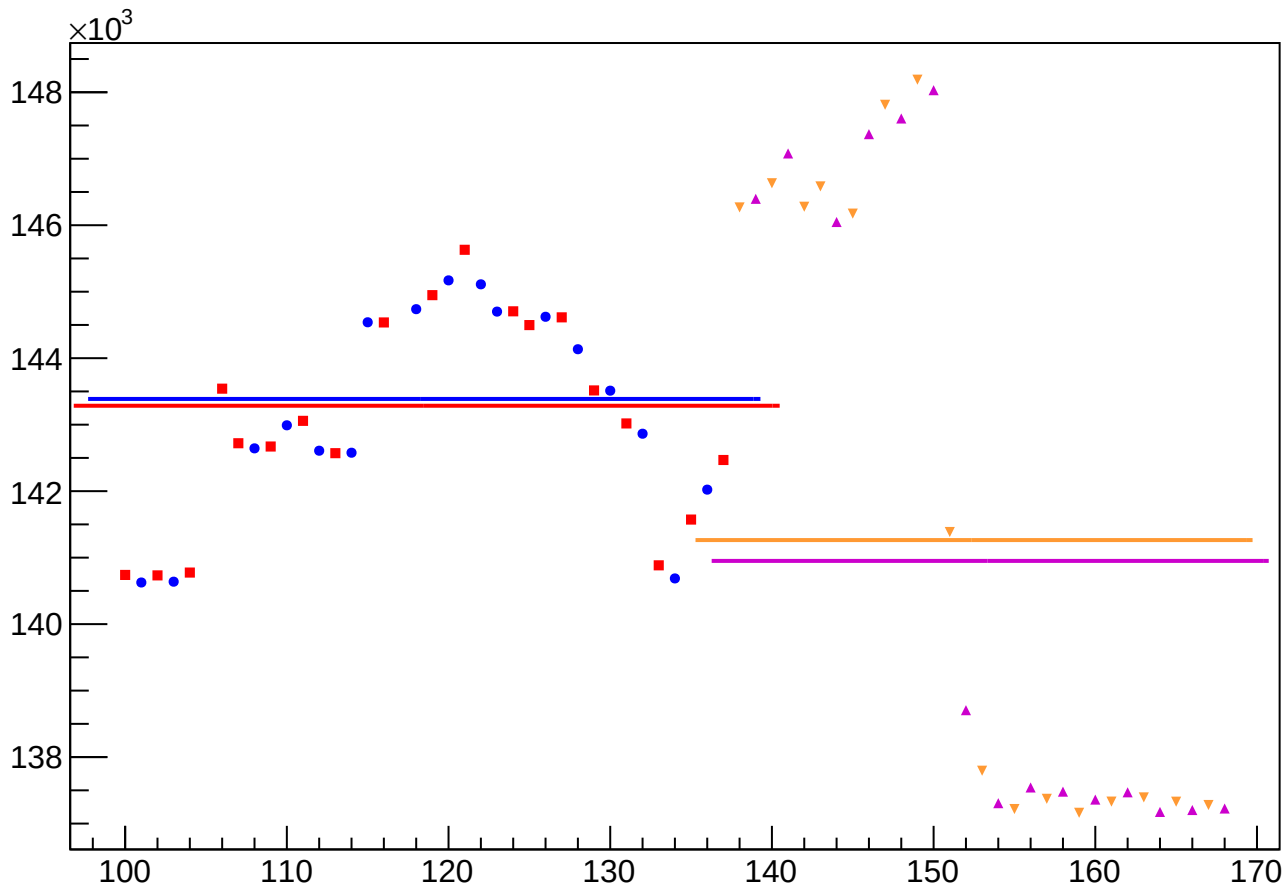
Right: 150.532+/-0.031 χ^2/NDF : 2350963.4/35

In: 175.618+/-0.030 χ^2/NDF : 1984356.9/31

Out: 170.731+/-0.029 χ^2/NDF : 2049785.5/34

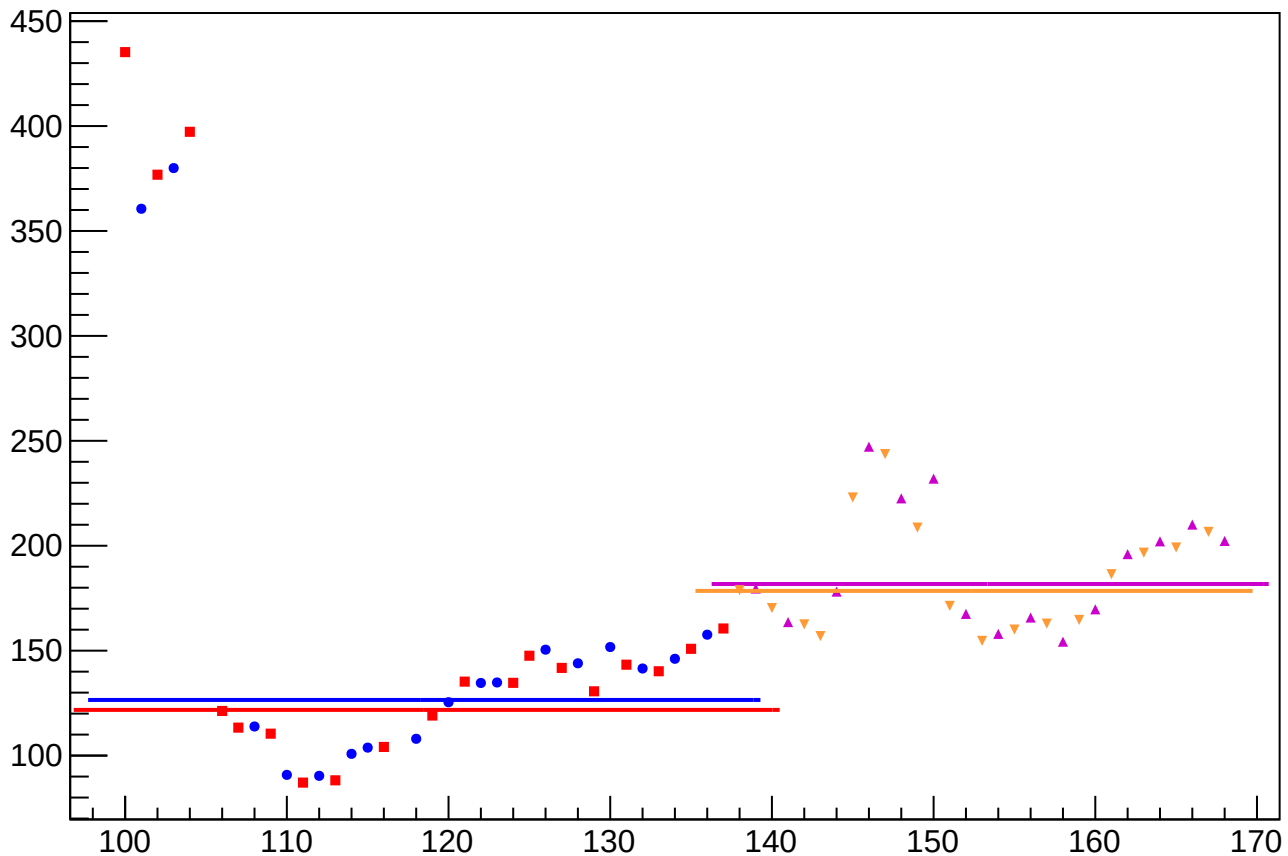
All: 173.073+/-0.021 χ^2/NDF : 4047874.8/66

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099+/-0.053	χ^2/NDF : 521299875.7/16	Left: 141111.951+/-0.038	χ^2/NDF : 14382906147.9
Left Out: 141264.224+/-0.053	χ^2/NDF : 7266969813.5/15	Right: 143332.291+/-0.036	χ^2/NDF : 1131952524.8
Right Out: 143284.757+/-0.049	χ^2/NDF : 608634820.1/18	In: 142199.719+/-0.038	χ^2/NDF : 8660571667.3/3
Left In: 140950.953+/-0.054	χ^2/NDF : 7098684544.1/14	Out: 142343.630+/-0.036	χ^2/NDF : 8664353605.5/3
		All: 142275.308+/-0.026	χ^2/NDF : 173325594

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 178.477 $\pm$ 0.037 χ^2 /NDF:384137.2/15

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 181.765 $\pm$ 0.038 χ^2 /NDF:444729.6/14

Left: 180.075 $\pm$ 0.027 χ^2 /NDF: 832668.4/30

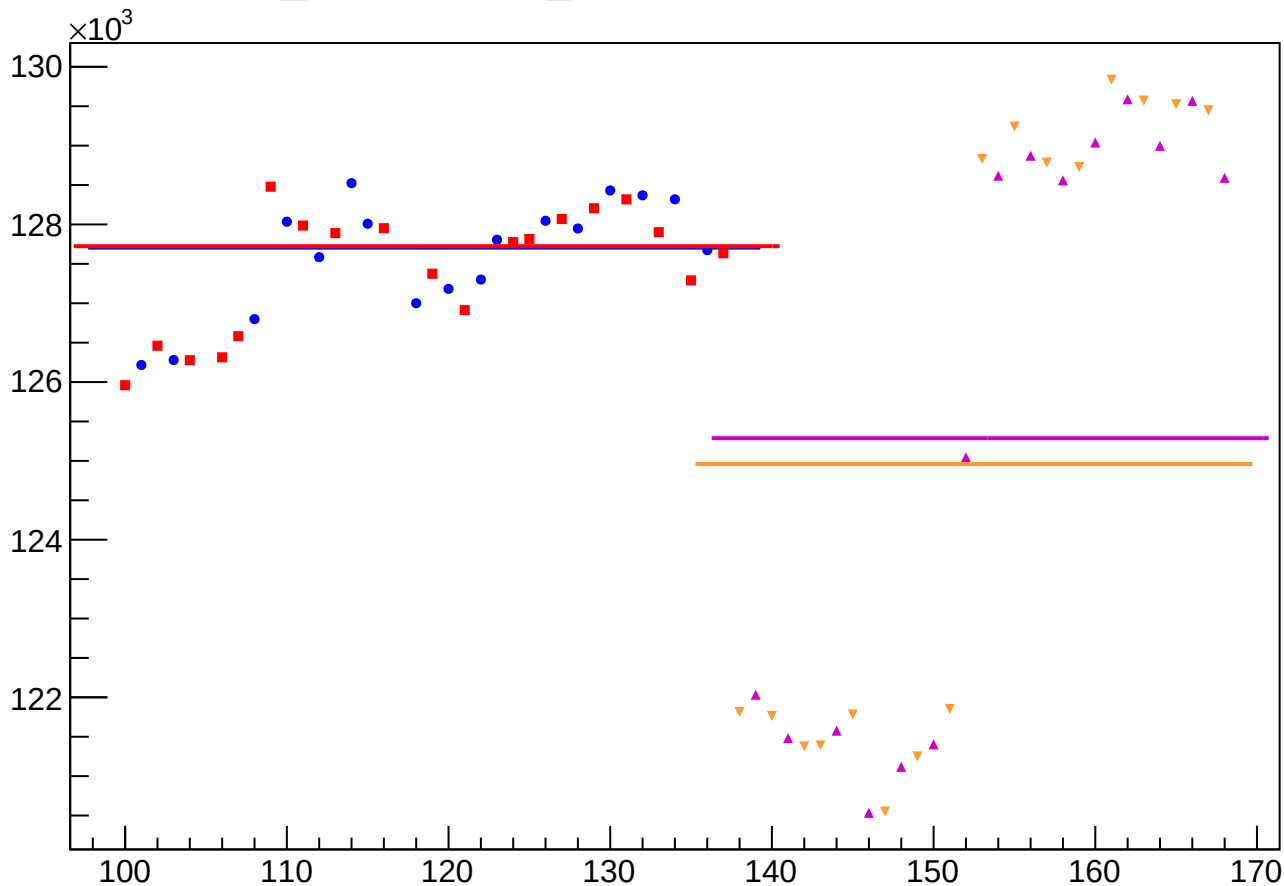
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 153.443 $\pm$ 0.027 χ^2 /NDF:2956902.9/31

Out: 148.184 $\pm$ 0.025 χ^2 /NDF:3090398.0/34

All: 150.681 $\pm$ 0.018 χ^2 /NDF: 6067693.0/66

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058 χ^2 /NDF: 97860521.1/16

Left Out: 124959.387 $\pm$ 0.051 χ^2 /NDF: 5518790182.8/15

Right Out: 127724.256 $\pm$ 0.055 χ^2 /NDF: 112614317.2/18

Left In: 125287.956 $\pm$ 0.051 χ^2 /NDF: 4980075711.3/14

Left: 125125.591 $\pm$ 0.036 χ^2 /NDF: 10519650529.3

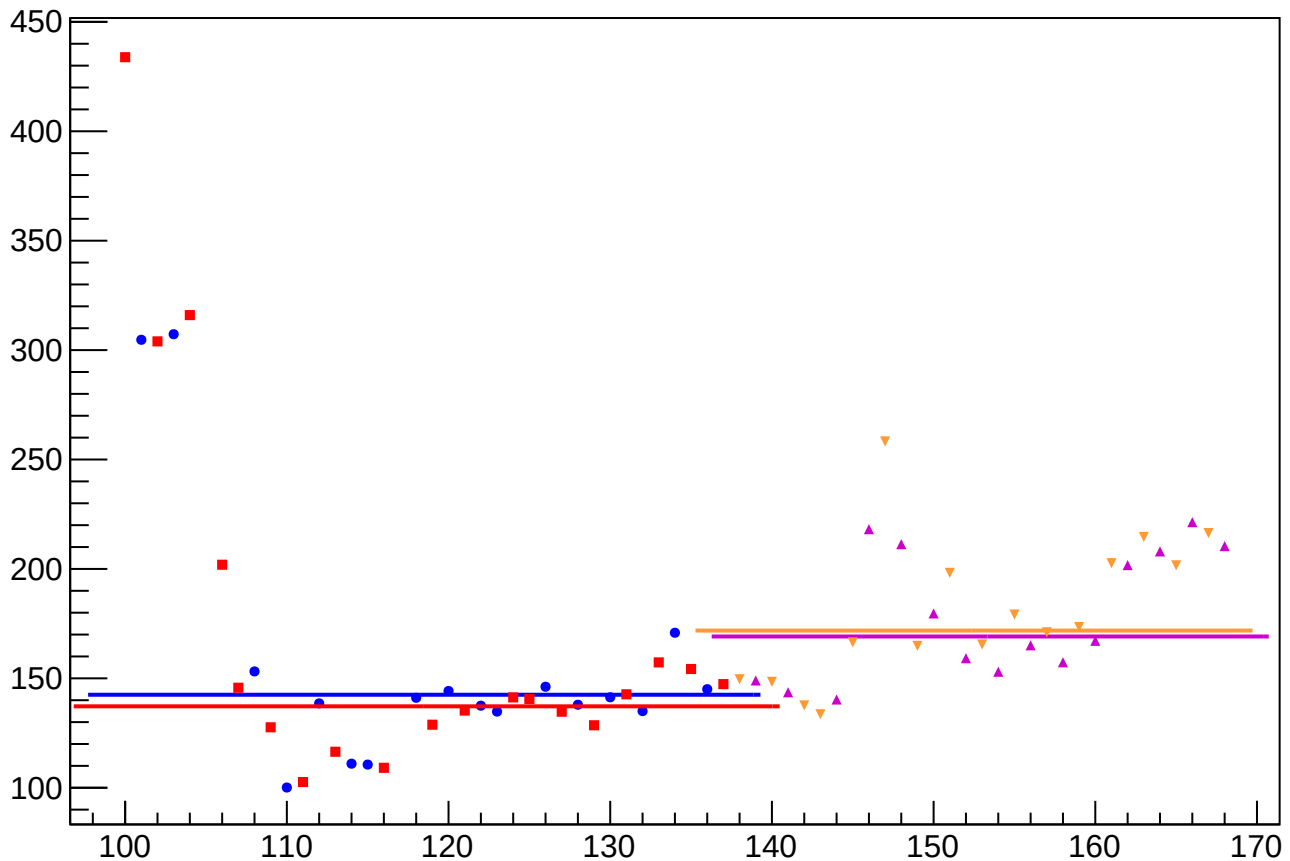
Right: 127715.791 $\pm$ 0.040 χ^2 /NDF: 210526259.6/3

In: 126333.314 $\pm$ 0.038 χ^2 /NDF: 6062828161.7/3

Out: 126256.467 $\pm$ 0.037 χ^2 /NDF: 6996351687.2/3

All: 126294.050 $\pm$ 0.027 χ^2 /NDF: 130612505

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 171.835 $\pm$ 0.036 χ^2 /NDF: 620490.4/15

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 169.127 $\pm$ 0.036 χ^2 /NDF: 533271.7/14

Left: 170.465 $\pm$ 0.025 χ^2 /NDF: 1156584.5/30

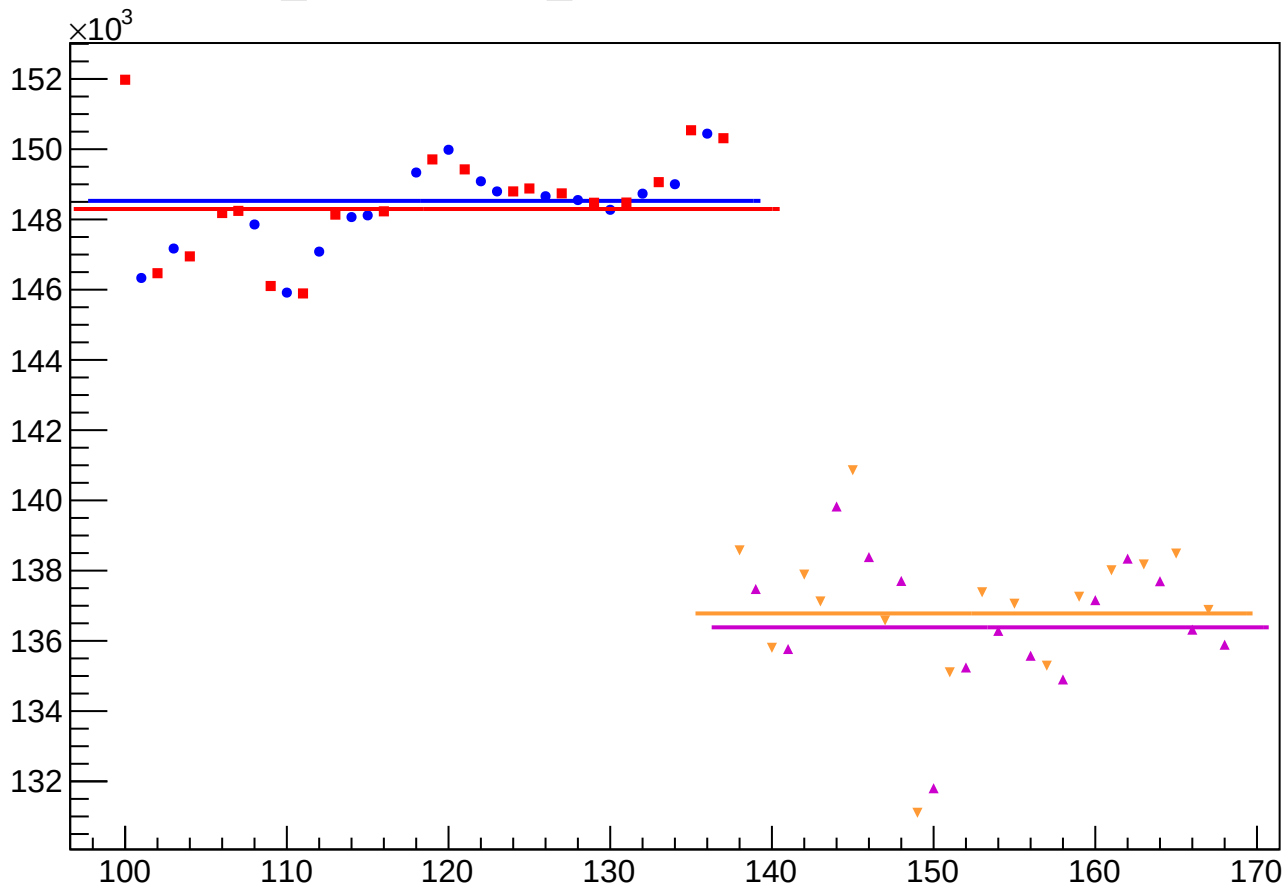
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 157.618 $\pm$ 0.027 χ^2 /NDF: 1608331.4/31

Out: 155.592 $\pm$ 0.026 χ^2 /NDF: 2005896.4/34

All: 156.583 $\pm$ 0.019 χ^2 /NDF: 3617105.1/66

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136781.071 $\pm$ 0.075 χ^2 /NDF: 829723489.6/15

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136385.453 $\pm$ 0.075 χ^2 /NDF: 639565223.7/14

Left: 136581.865 $\pm$ 0.053 χ^2 /NDF: 1483196005.8/3

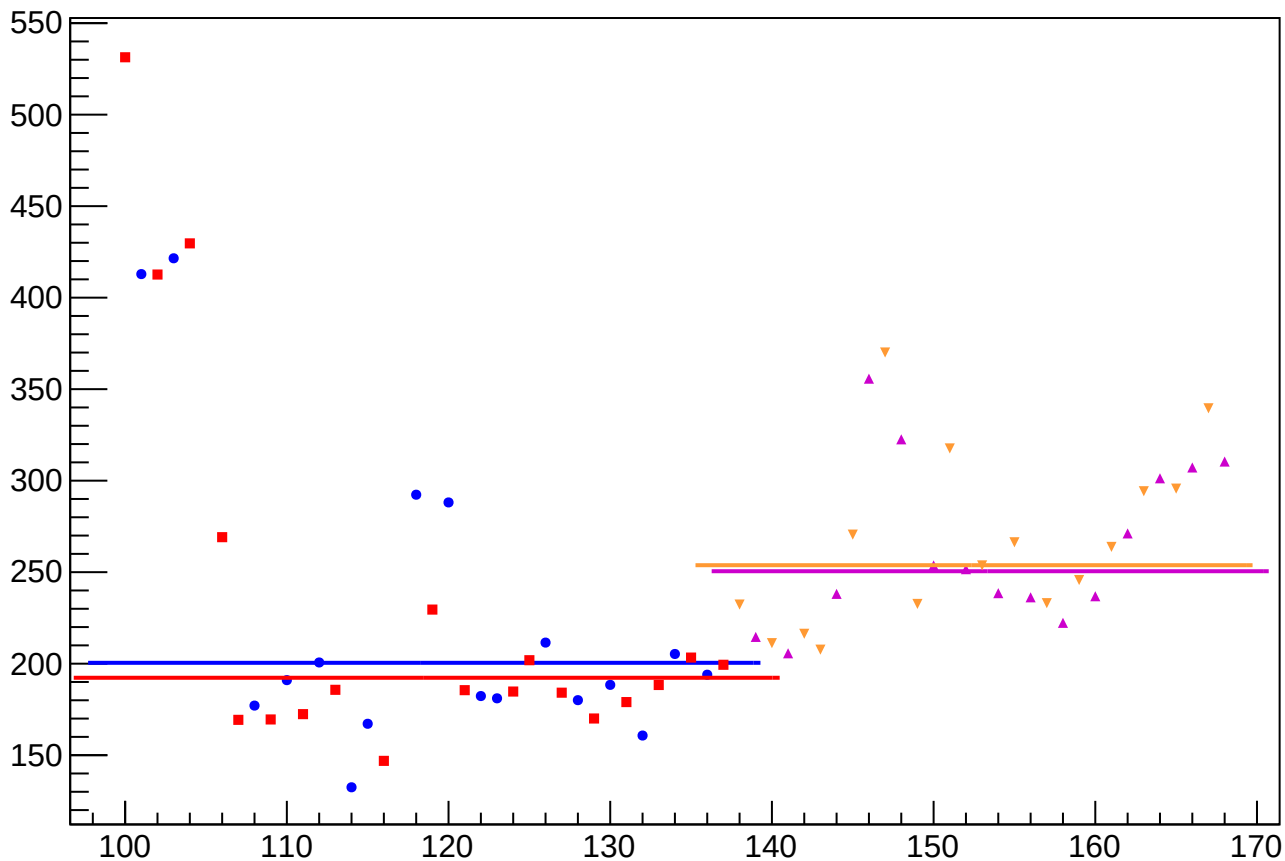
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141891.362 $\pm$ 0.055 χ^2 /NDF: 12816056667.8/3

Out: 142453.089 $\pm$ 0.054 χ^2 /NDF: 12649683099.5

All: 142180.669 $\pm$ 0.038 χ^2 /NDF: 255189529

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 253.807 $\pm$ 0.053 χ^2 /NDF: 567499.4/15

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 250.517 $\pm$ 0.053 χ^2 /NDF: 517898.2/14

Left: 252.150 $\pm$ 0.038 χ^2 /NDF: 1087320.8/30

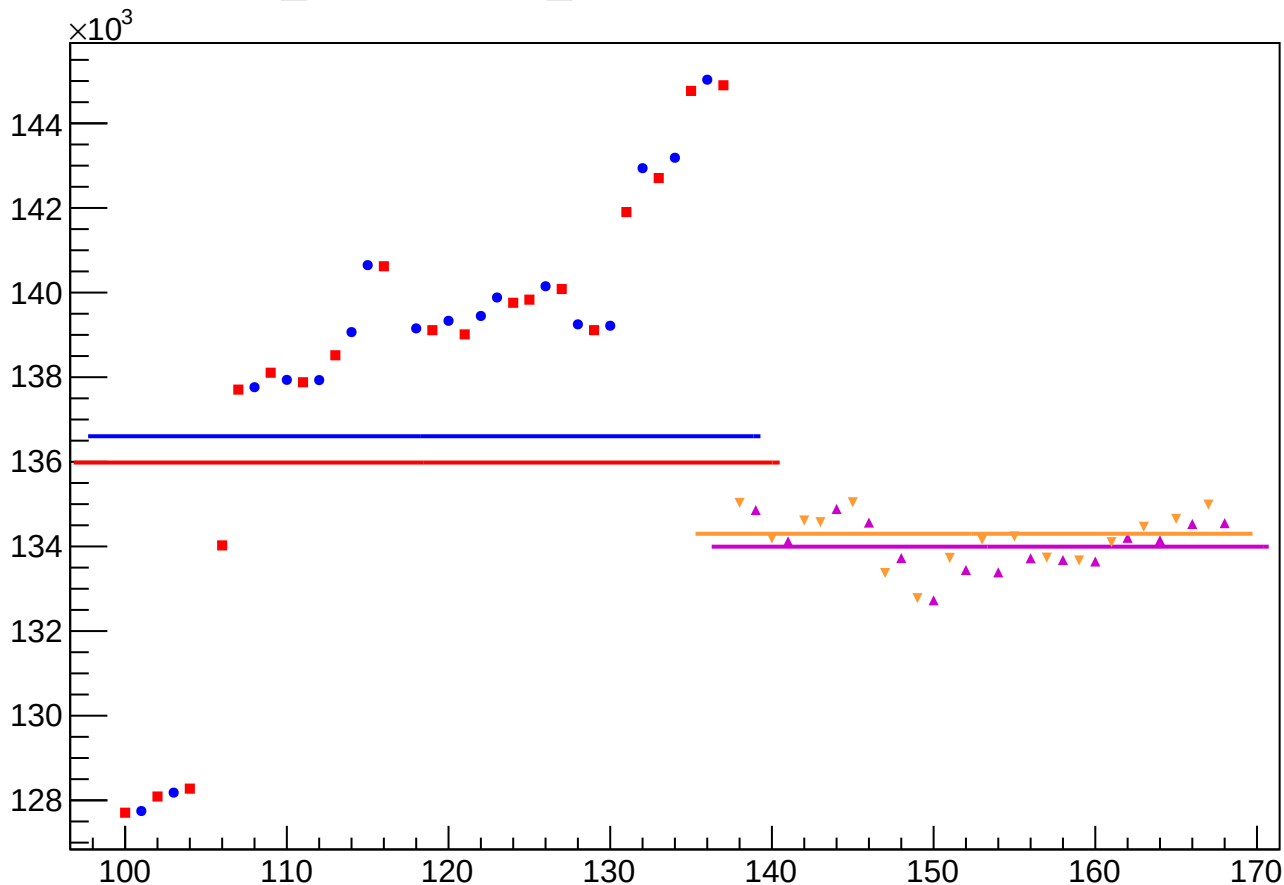
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 227.826 $\pm$ 0.039 χ^2 /NDF: 1860920.4/31

Out: 223.515 $\pm$ 0.038 χ^2 /NDF: 2069528.9/34

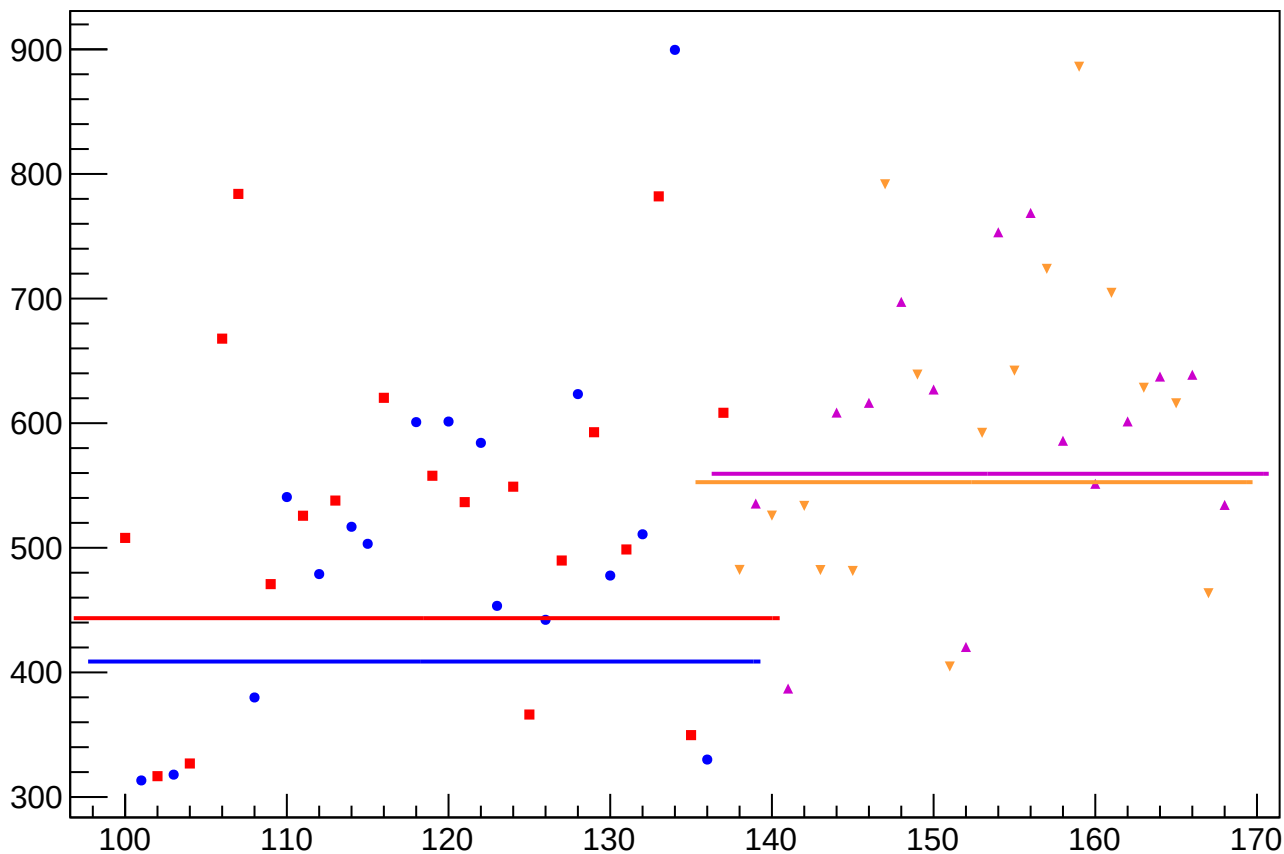
All: 225.606 $\pm$ 0.027 χ^2 /NDF: 3936719.2/66

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 ± 0.171	$\chi^2/\text{NDF}: 1494354557.3/16$	Left: 134153.392 ± 0.125	$\chi^2/\text{NDF}: 24660659.7/30$
Left Out: 134299.660 ± 0.173	$\chi^2/\text{NDF}: 12815227.7/15$	Right: 136313.462 ± 0.125	$\chi^2/\text{NDF}: 2582945594.6/30$
Right Out: 135982.842 ± 0.183	$\chi^2/\text{NDF}: 1082431147.9/18$	In: 135363.249 ± 0.124	$\chi^2/\text{NDF}: 1614939364.8/30$
Left In: 133994.751 ± 0.180	$\chi^2/\text{NDF}: 10352538.7/14$	Out: 135094.683 ± 0.126	$\chi^2/\text{NDF}: 1140040693.1/30$
		All: 135230.482 ± 0.088	$\chi^2/\text{NDF}: 275729372.7/14$

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 552.659+/-0.122 χ^2/NDF : 879367.7/15

Right Out: 443.521+/-0.129 χ^2/NDF : 917492.4/18

Left In: 559.397+/-0.127 χ^2/NDF : 740442.3/14

Left: 555.891+/-0.088 χ^2/NDF : 1621267.9/30

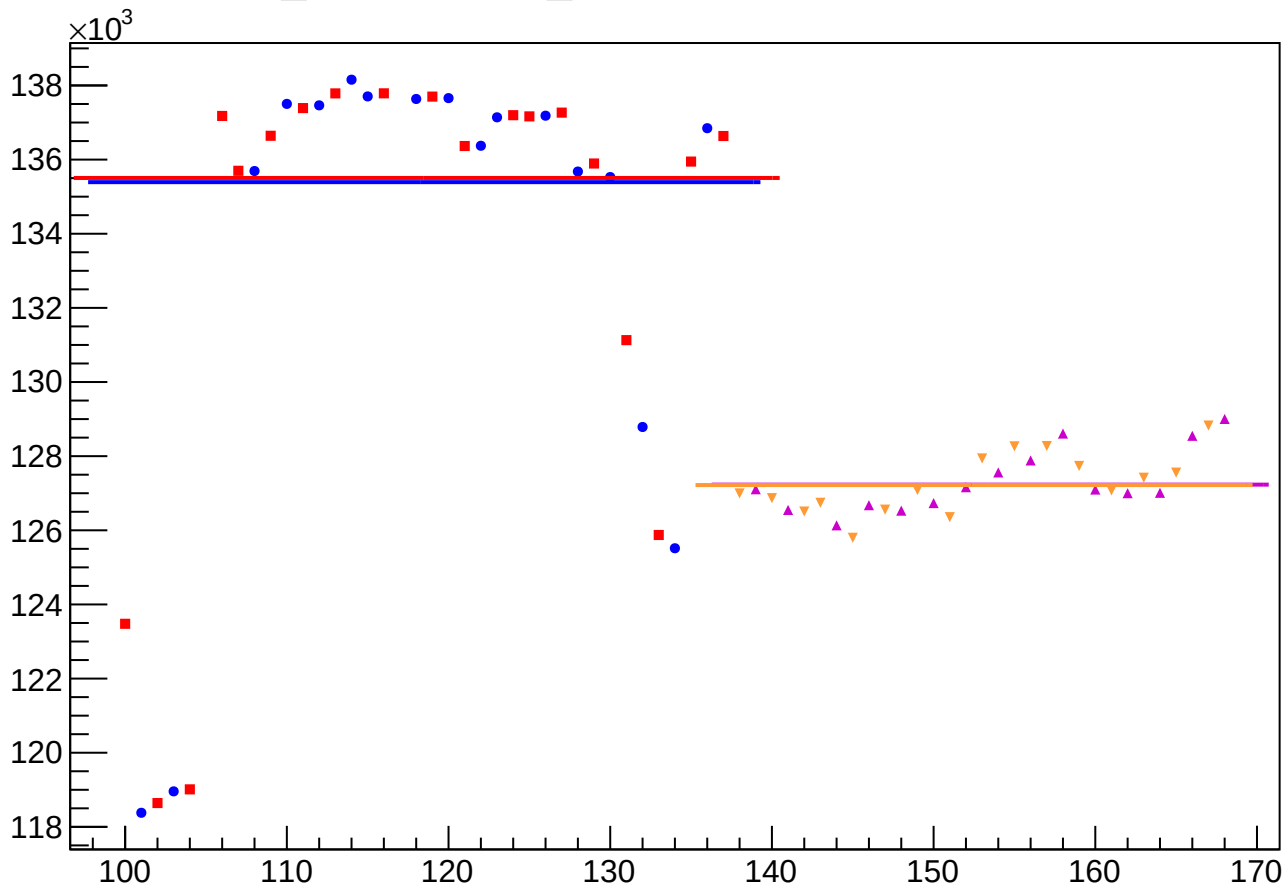
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 480.394+/-0.088 χ^2/NDF : 2298447.1/31

Out: 501.110+/-0.089 χ^2/NDF : 2173512.6/34

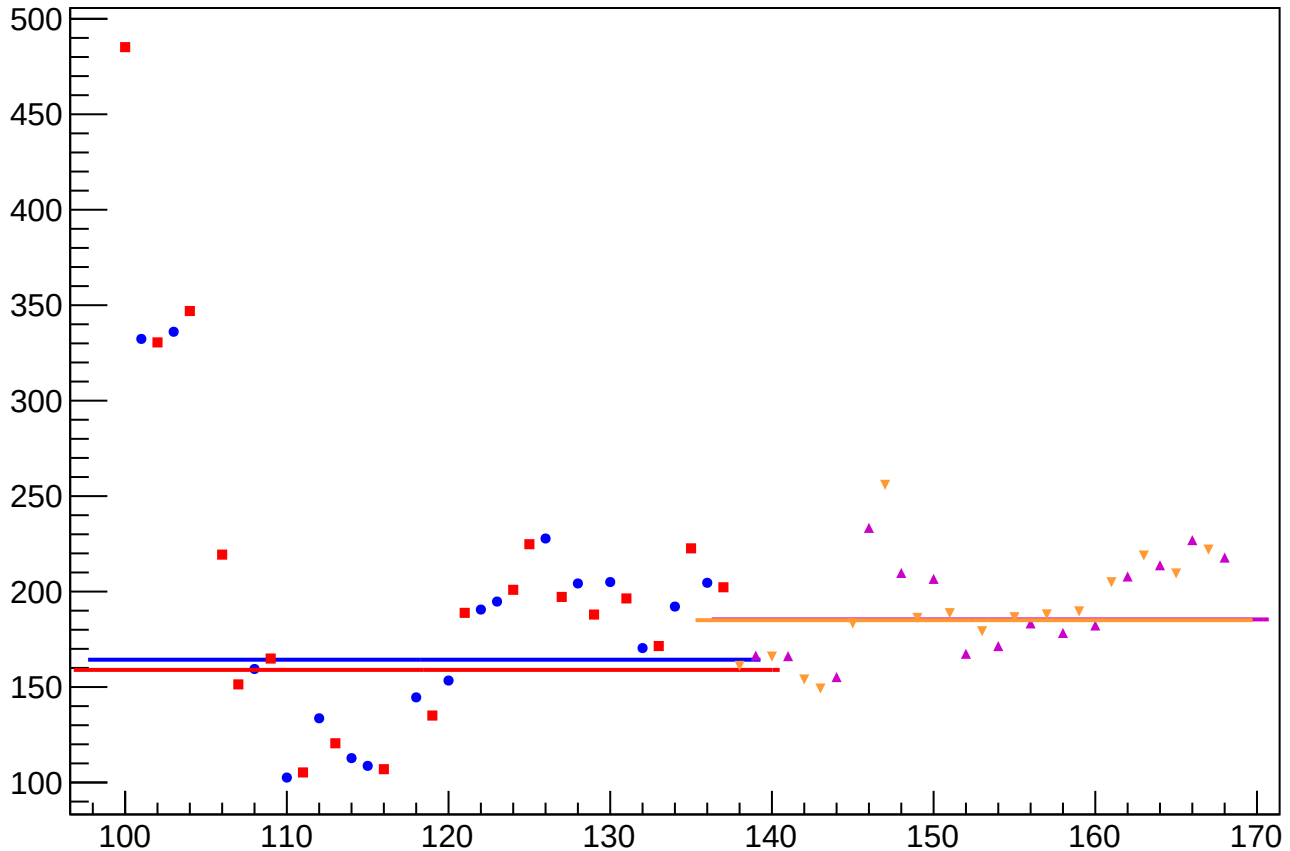
All: 490.635+/-0.062 χ^2/NDF : 4499491.0/66

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127226.202 $\pm$ 0.039	χ^2 /NDF: 409740126.8/30
Left Out: 127220.467 $\pm$ 0.055	χ^2 /NDF: 197491931.4/15	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130454.442 $\pm$ 0.043	χ^2 /NDF: 13436810616.3/3
Left In: 127232.038 $\pm$ 0.055	χ^2 /NDF: 212225992.3/14	Out: 130690.676 $\pm$ 0.042	χ^2 /NDF: 14547121799.1
		All: 130575.979 $\pm$ 0.030	χ^2 /NDF: 279995333

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 185.011+/-0.039 χ^2/NDF : 392601.5/15

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 185.413+/-0.039 χ^2/NDF : 353659.1/14

Left: 185.210+/-0.027 χ^2/NDF : 746314.1/30

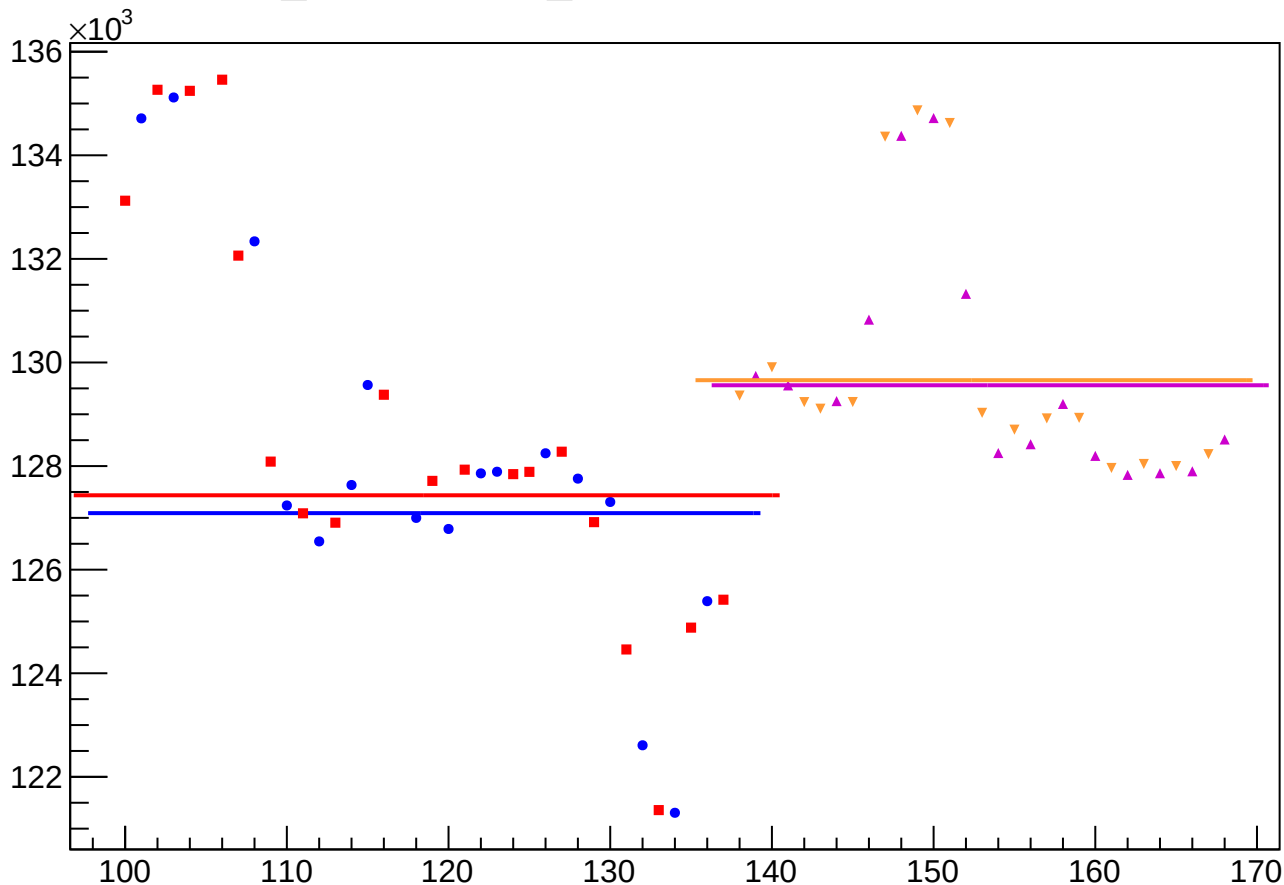
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 177.079+/-0.030 χ^2/NDF : 1699784.8/31

Out: 174.106+/-0.029 χ^2/NDF : 1966643.4/34

All: 175.550+/-0.021 χ^2/NDF : 3671371.2/66

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129609.423+/-0.039

χ^2/NDF : 2413540281.0/3

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Left Out: 129658.037+/-0.055

χ^2/NDF : 1320287937.2/15

In: 128546.370+/-0.042

χ^2/NDF : 3625894490.9/3

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

Out: 128671.029+/-0.041

χ^2/NDF : 4123783904.8/3

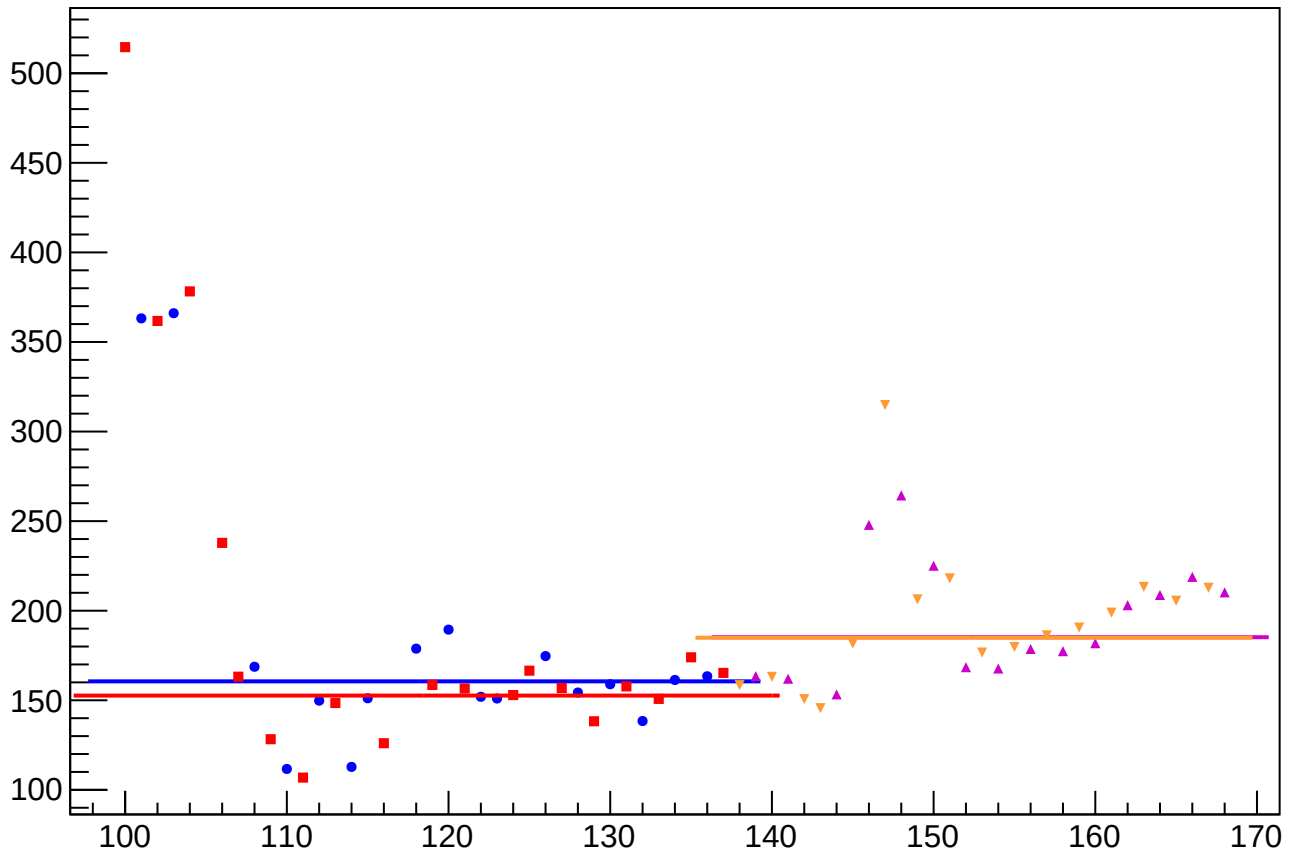
Left In: 129560.228+/-0.055

χ^2/NDF : 1091681704.7/14

All: 128610.894+/-0.030

χ^2/NDF : 775413365.0/3

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2/NDF : 942747.0/16

Left Out: 184.920 $\pm$ 0.039 χ^2/NDF : 598417.5/15

Right Out: 152.629 $\pm$ 0.044 χ^2/NDF : 1086504.4/18

Left In: 185.200 $\pm$ 0.039 χ^2/NDF : 539825.5/14

Left: 185.059 $\pm$ 0.028 χ^2/NDF : 1138268.6/30

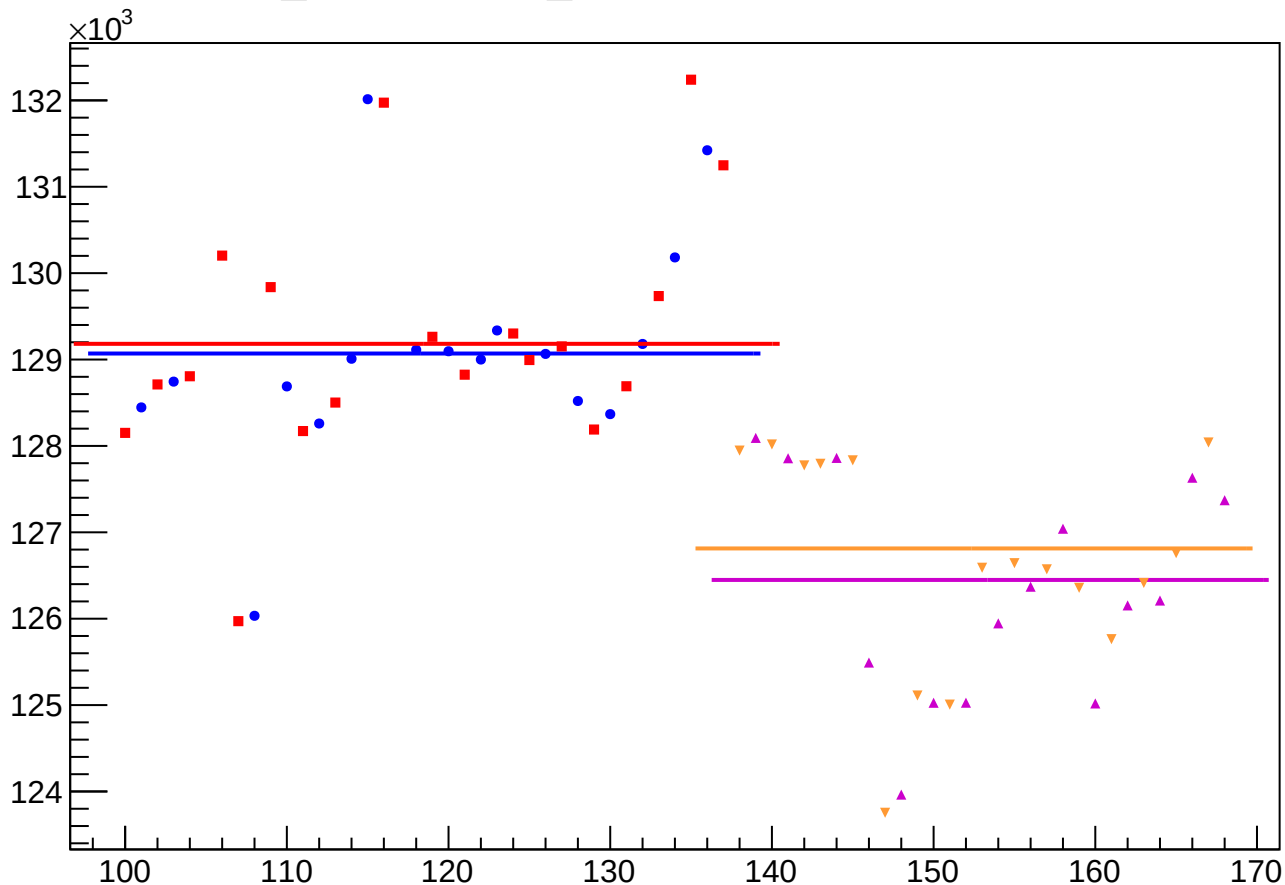
Right: 156.301 $\pm$ 0.032 χ^2/NDF : 2044640.1/35

In: 175.082 $\pm$ 0.030 χ^2/NDF : 1645290.3/31

Out: 170.576 $\pm$ 0.029 χ^2/NDF : 1990932.1/34

All: 172.750 $\pm$ 0.021 χ^2/NDF : 3647866.3/66

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2 /NDF: 476692316.5/16

Left Out: 126813.243 $\pm$ 0.053

χ^2 /NDF: 461178814.3/15

Right Out: 129181.887 $\pm$ 0.056

χ^2 /NDF: 625597399.6/18

Left In: 126448.675 $\pm$ 0.054

χ^2 /NDF: 542324814.6/14

Left: 126632.830 $\pm$ 0.038

χ^2 /NDF: 1026907713.4/3

Right: 129129.710 $\pm$ 0.041

χ^2 /NDF: 1104150743.5/3

In: 127607.334 $\pm$ 0.040

χ^2 /NDF: 2077665279.2/3

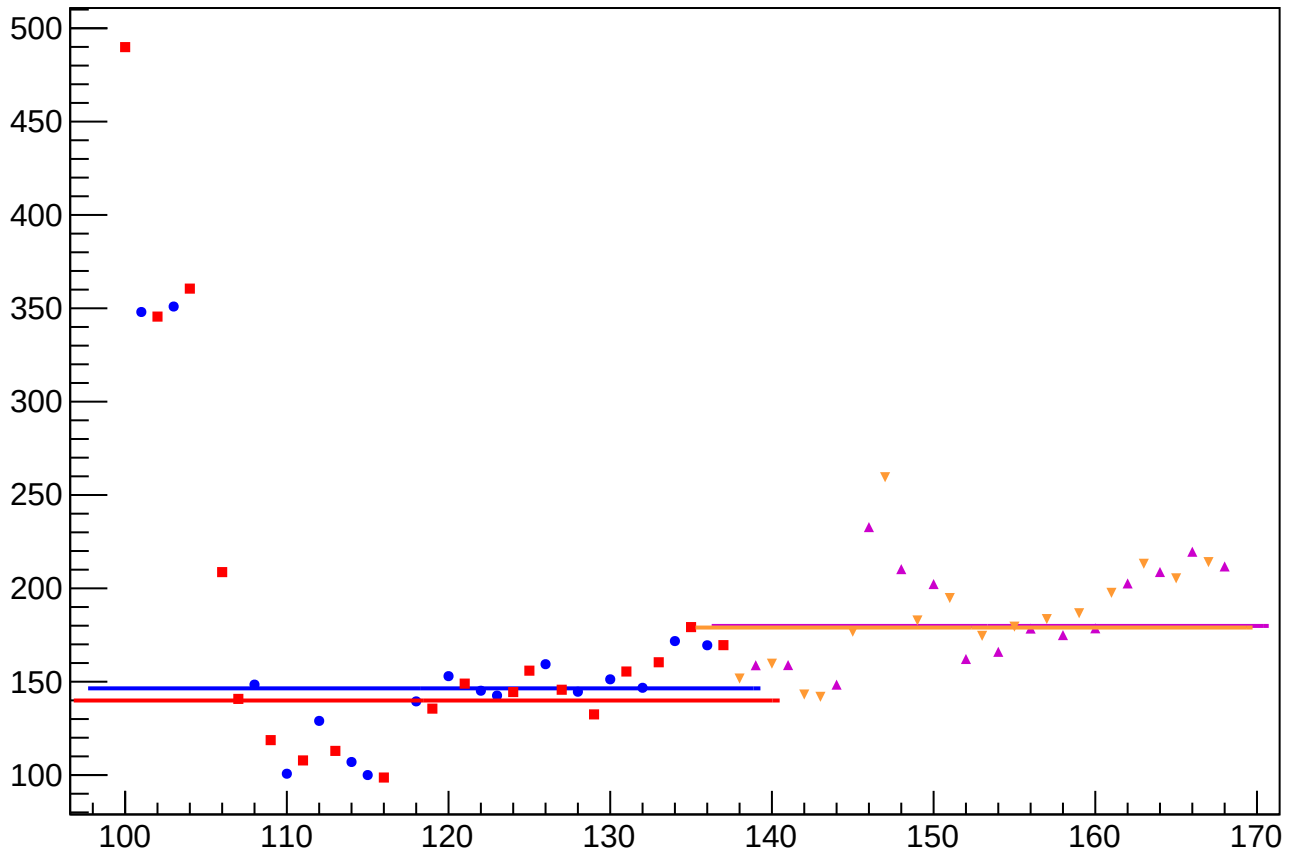
Out: 127930.768 $\pm$ 0.039

χ^2 /NDF: 2028677628.7/3

All: 127775.136 $\pm$ 0.028

χ^2 /NDF: 41402533

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 179.009 $\pm$ 0.037 χ^2 /NDF: 488156.7/15

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 179.873 $\pm$ 0.038 χ^2 /NDF: 410679.9/14

Left: 179.436 $\pm$ 0.027 χ^2 /NDF: 899099.5/30

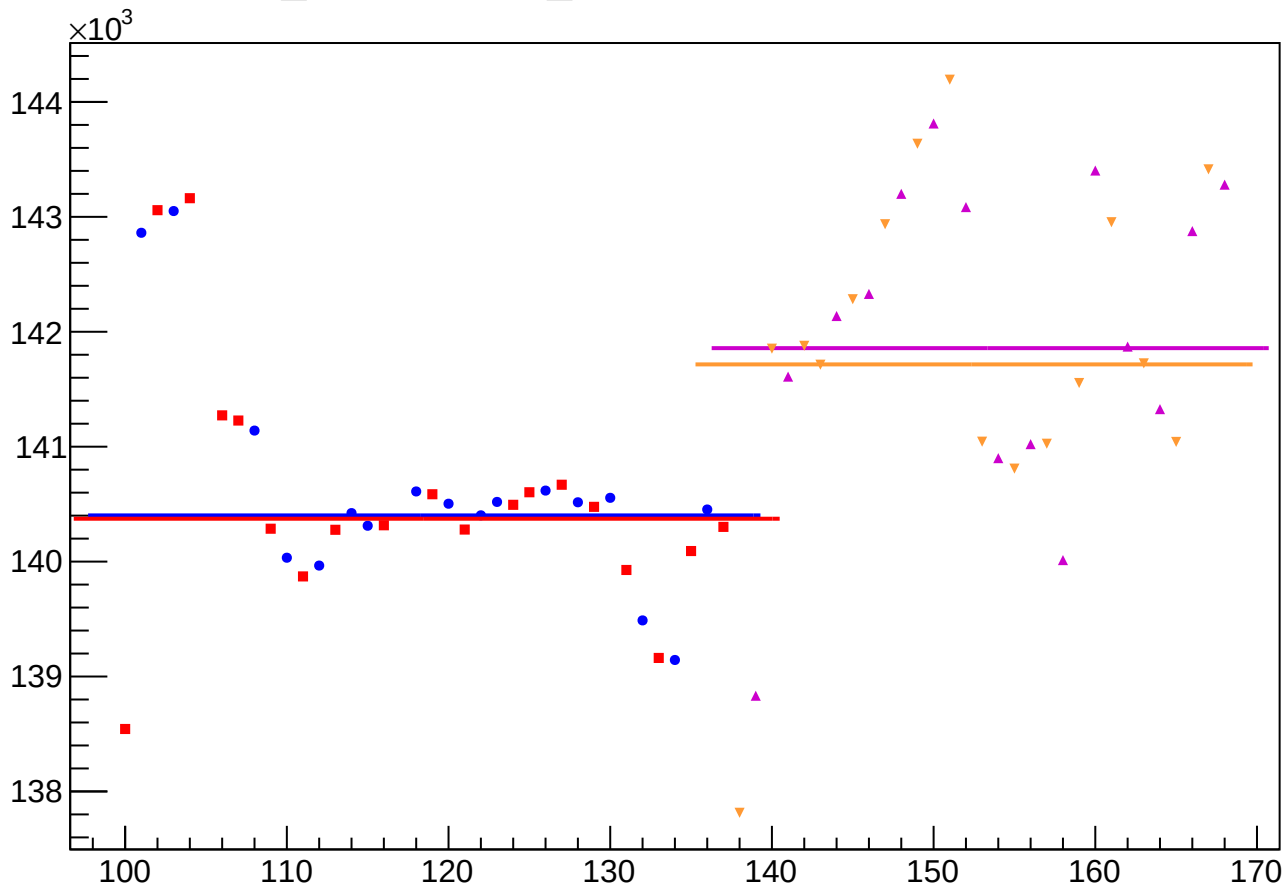
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 165.092 $\pm$ 0.028 χ^2 /NDF: 1820030.9/31

Out: 160.571 $\pm$ 0.027 χ^2 /NDF: 2204521.3/34

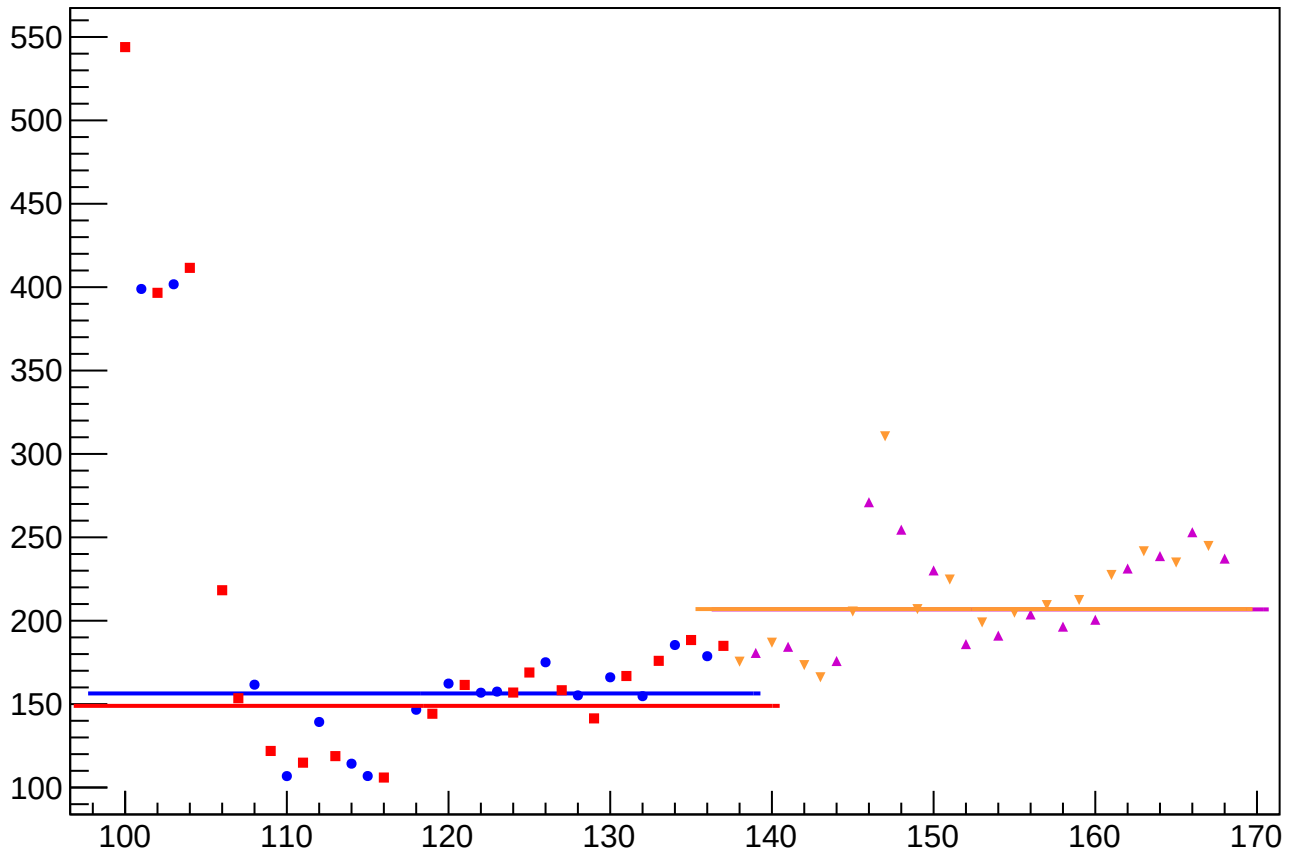
All: 162.747 $\pm$ 0.020 χ^2 /NDF: 4037803.6/66

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064	χ^2/NDF : 88071774.7/16	Left: 141786.490 $\pm$ 0.043	χ^2/NDF : 1136552531.4/3
Left Out: 141716.094 $\pm$ 0.061	χ^2/NDF : 627050344.1/15	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: 141161.054 $\pm$ 0.045	χ^2/NDF : 861745836.2/31
Left In: 141857.506 $\pm$ 0.062	χ^2/NDF : 506858866.9/14	Out: 141027.820 $\pm$ 0.043	χ^2/NDF : 972333820.2/34
		All: 141091.899 $\pm$ 0.031	χ^2/NDF : 183873001

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394+/-0.046 χ^2/NDF : 1154804.2/16

Left Out: 206.981+/-0.043 χ^2/NDF : 455098.2/15

Right Out: 148.949+/-0.042 χ^2/NDF : 1307651.5/18

Left In: 206.787+/-0.044 χ^2/NDF : 404425.1/14

Left: 206.884+/-0.031 χ^2/NDF : 859533.3/30

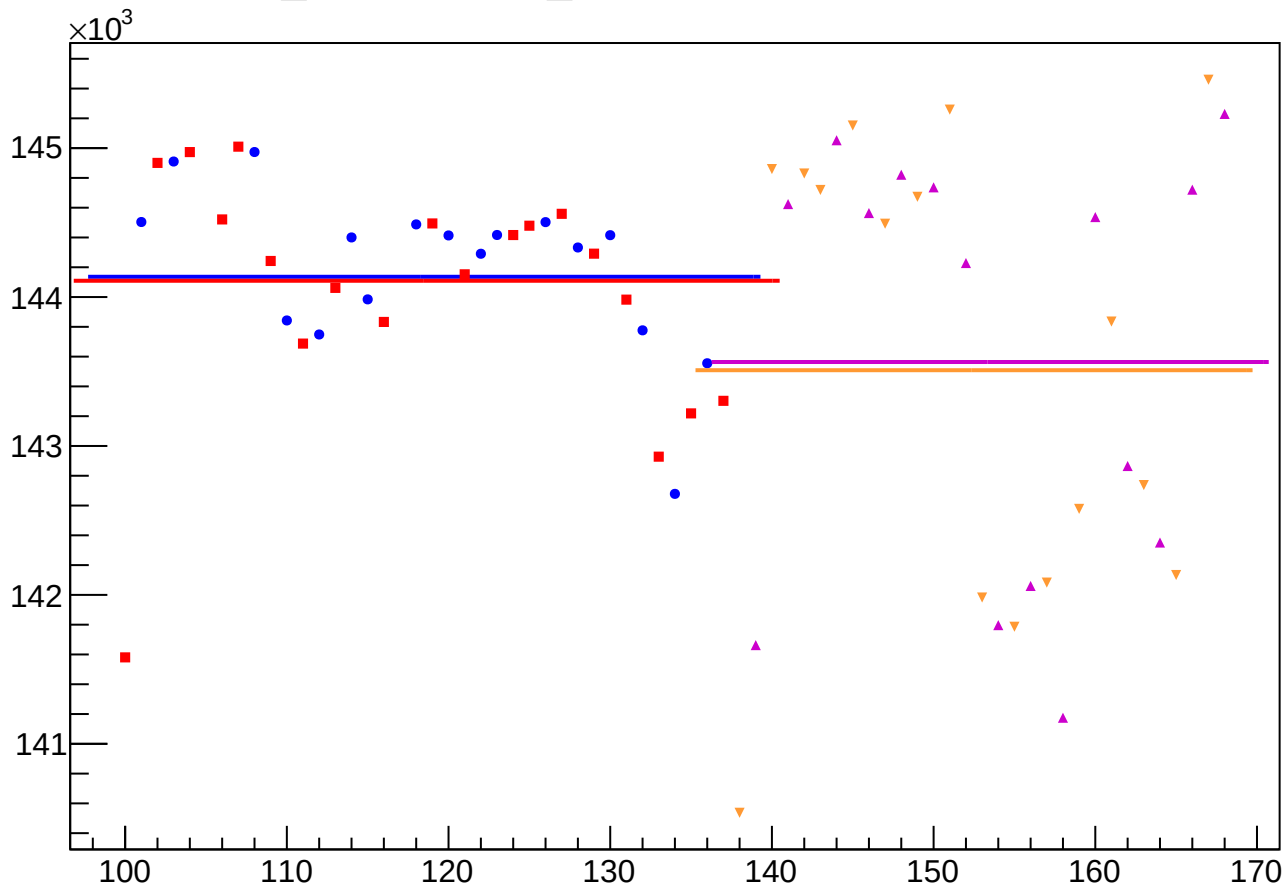
Right: 152.402+/-0.031 χ^2/NDF : 2476807.4/35

In: 182.674+/-0.031 χ^2/NDF : 2198906.9/31

Out: 177.239+/-0.030 χ^2/NDF : 2679357.1/34

All: 179.853+/-0.022 χ^2/NDF : 4893739.7/66

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2/NDF : 47069480.3/16

Left: 143535.998 $\pm$ 0.043

χ^2/NDF : 1215335784.2/3

Left Out: 143508.706 $\pm$ 0.061

χ^2/NDF : 660955729.7/15

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: 143826.429 $\pm$ 0.045

χ^2/NDF : 640798700.5/31

Out: 143804.286 $\pm$ 0.043

χ^2/NDF : 774101724.1/34

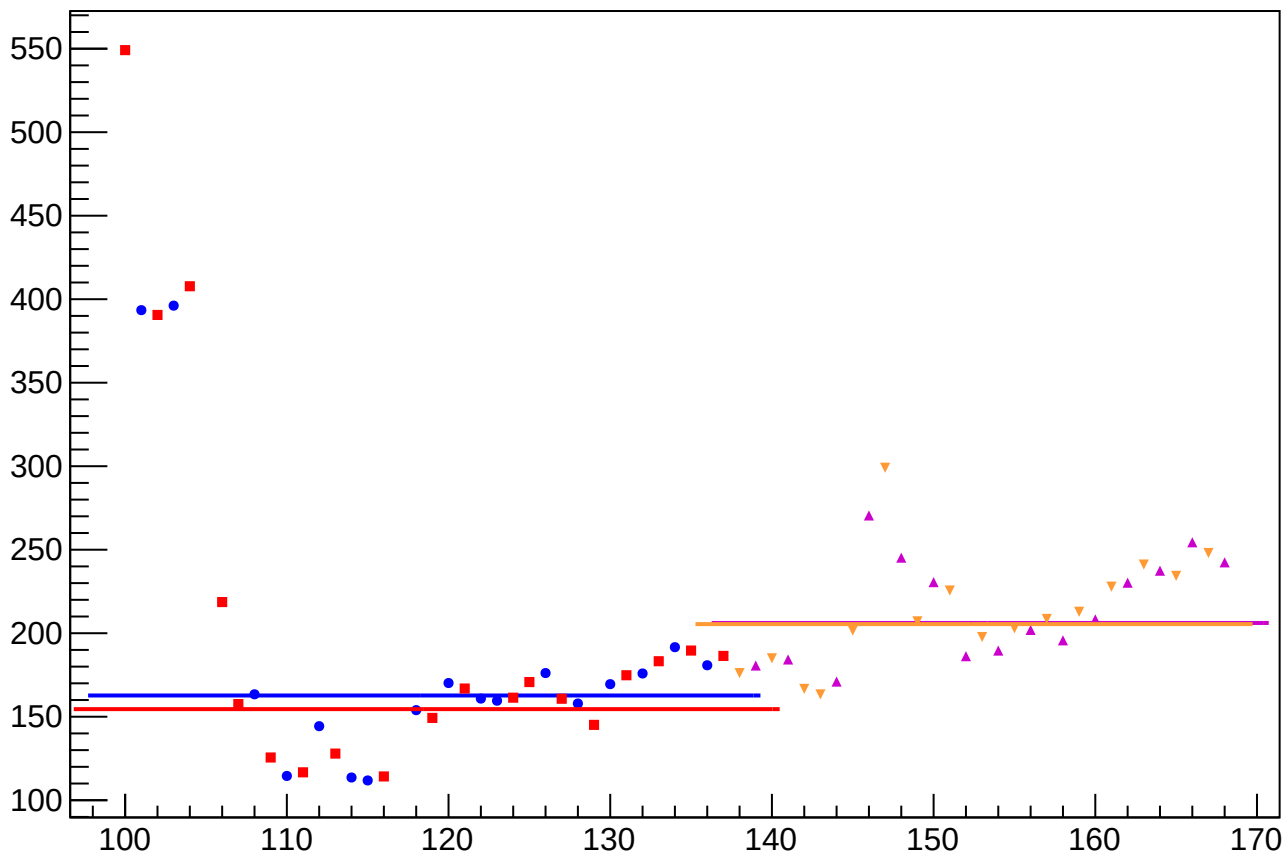
Left In: 143563.824 $\pm$ 0.061

χ^2/NDF : 553974353.7/14

All: 143814.900 $\pm$ 0.031

χ^2/NDF : 141502521

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714+/-0.047 χ^2/NDF : 1066482.0/16

Left Out: 205.453+/-0.043 χ^2/NDF : 469590.6/15

Right Out: 154.547+/-0.044 χ^2/NDF : 1217495.9/18

Left In: 206.141+/-0.043 χ^2/NDF : 417772.5/14

Left: 205.794+/-0.031 χ^2/NDF : 887489.4/30

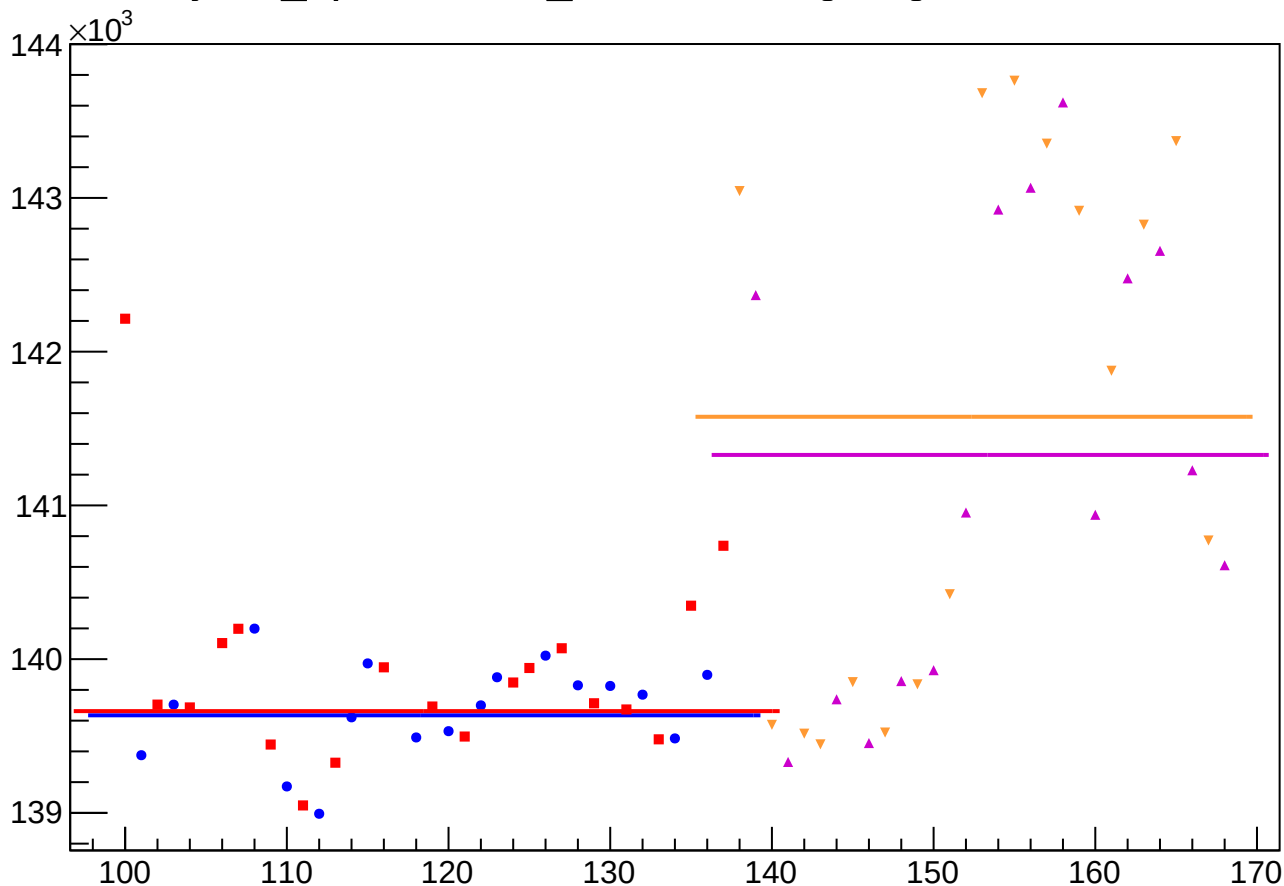
Right: 158.320+/-0.032 χ^2/NDF : 2300078.3/35

In: 186.214+/-0.032 χ^2/NDF : 1942073.9/31

Out: 180.405+/-0.031 χ^2/NDF : 2374880.9/34

All: 183.189+/-0.022 χ^2/NDF : 4334131.5/66

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068 χ^2 /NDF: 24844912.0/16

Left Out: 141576.505 $\pm$ 0.064 χ^2 /NDF: 709288764.5/15

Right Out: 139661.970 $\pm$ 0.063 χ^2 /NDF: 38372985.0/18

Left In: 141328.343 $\pm$ 0.063 χ^2 /NDF: 517596258.1/14

Left: 141452.069 $\pm$ 0.045 χ^2 /NDF: 1234499976.0/3

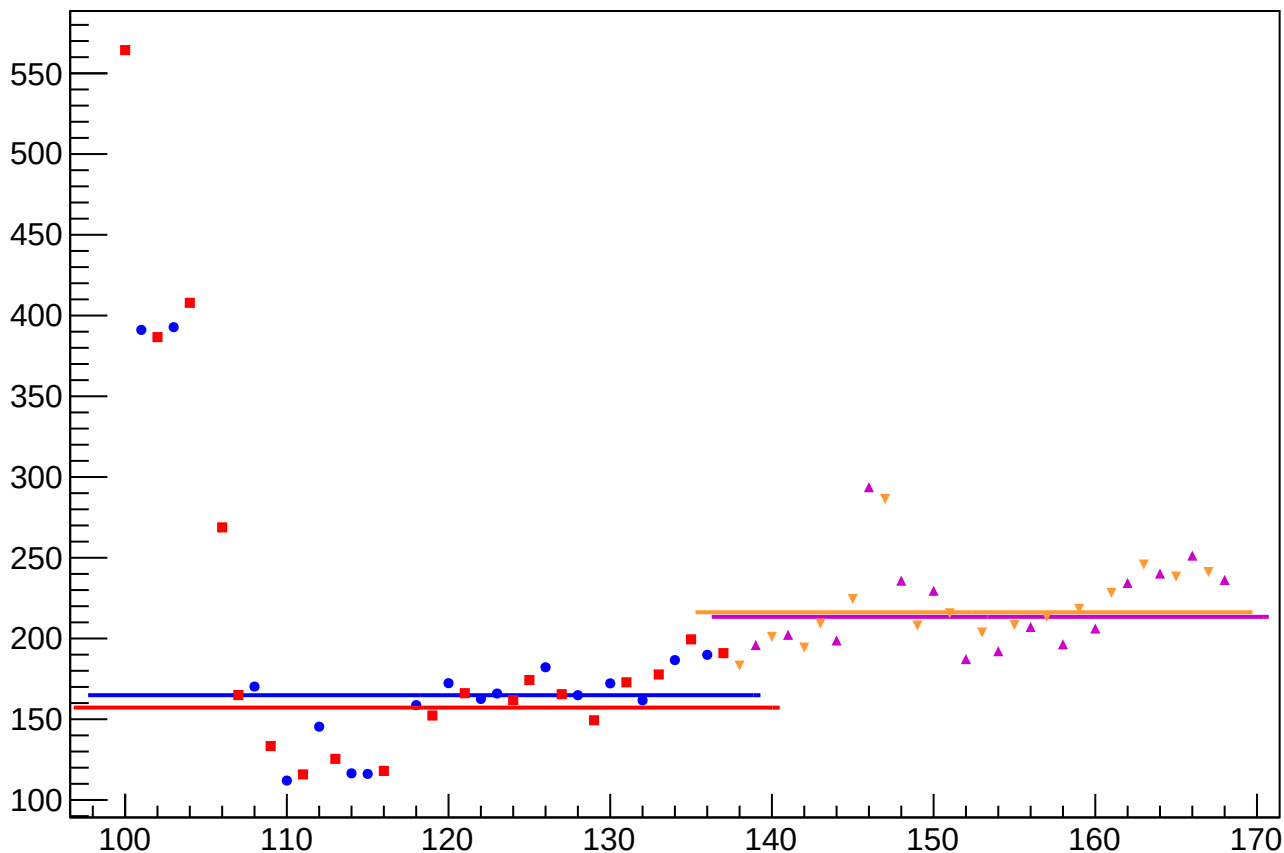
Right: 139649.322 $\pm$ 0.046 χ^2 /NDF: 63304699.0/35

In: 140536.650 $\pm$ 0.046 χ^2 /NDF: 874985150.6/31

Out: 140609.505 $\pm$ 0.045 χ^2 /NDF: 1204198831.3/3

All: 140574.307 $\pm$ 0.032 χ^2 /NDF: 208046167

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 216.256 $\pm$ 0.045 χ^2 /NDF:225717.5/15

Right Out: 157.207 $\pm$ 0.045 χ^2 /NDF: 1245030.9/18

Left In: 213.422 $\pm$ 0.045 χ^2 /NDF:297733.9/14

Left: 214.835 $\pm$ 0.032 χ^2 /NDF: 525437.9/30

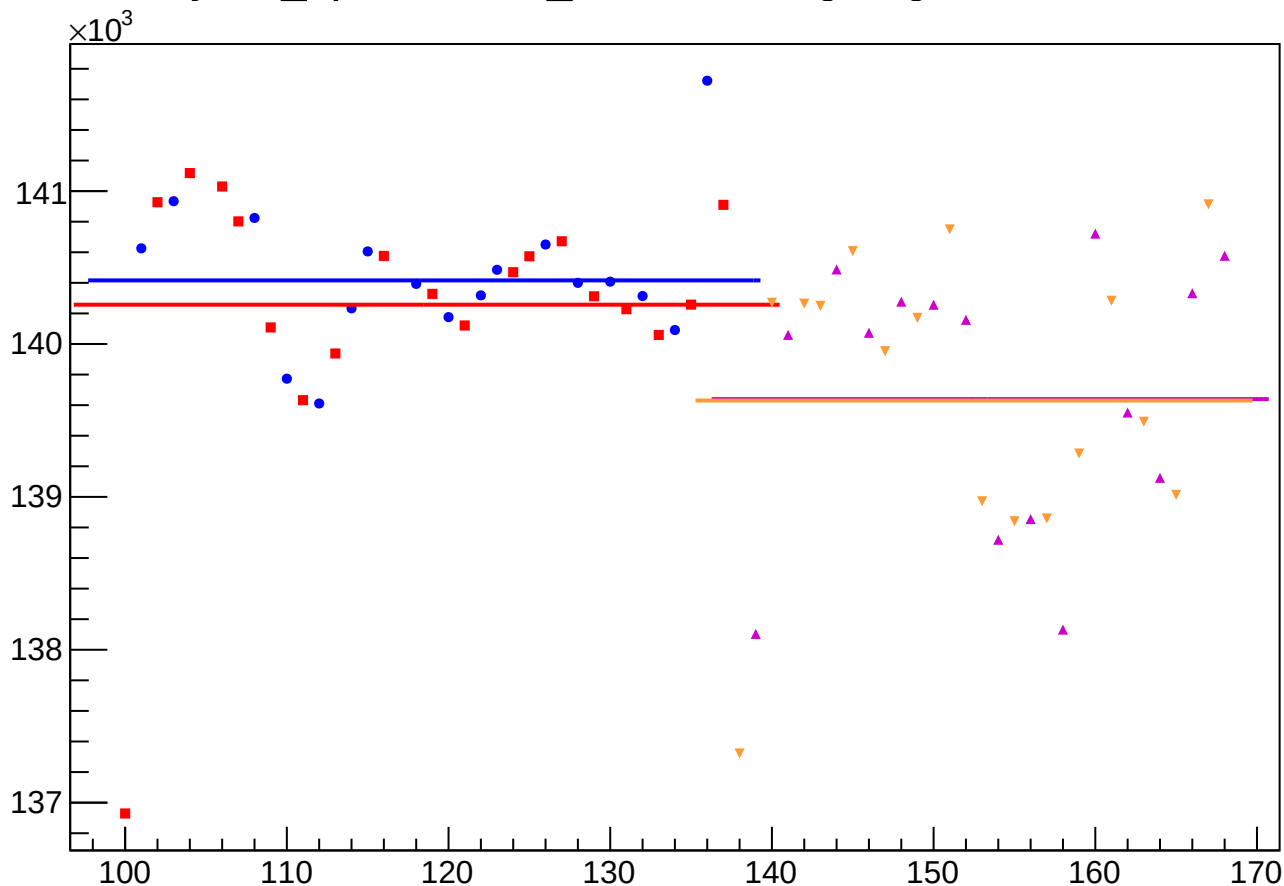
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 190.733 $\pm$ 0.033 χ^2 /NDF:1910252.3/31

Out: 186.432 $\pm$ 0.032 χ^2 /NDF:2339310.5/34

All: 188.510 $\pm$ 0.023 χ^2 /NDF: 4258470.5/66

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068

χ^2 /NDF: 69975821.3/16

Left Out: 139630.253 $\pm$ 0.060

χ^2 /NDF: 268927049.9/15

Right Out: 140256.992 $\pm$ 0.063

χ^2 /NDF: 38063371.4/18

Left In: 139639.643 $\pm$ 0.060

χ^2 /NDF: 223641369.4/14

Left: 139634.899 $\pm$ 0.042

χ^2 /NDF: 492580681.0/30

Right: 140330.188 $\pm$ 0.046

χ^2 /NDF: 110959487.0/30

In: 139979.071 $\pm$ 0.045

χ^2 /NDF: 366150214.1/31

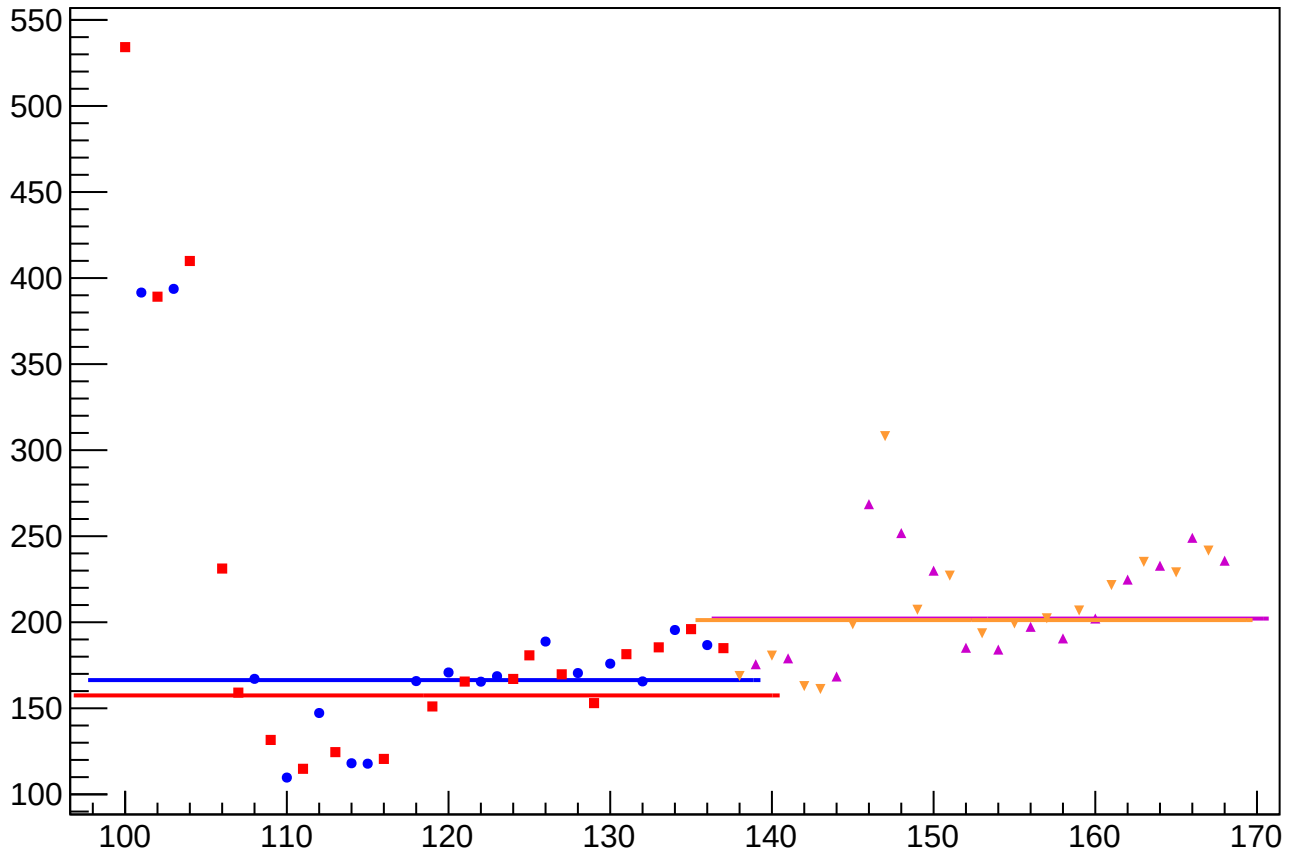
Out: 139925.799 $\pm$ 0.043

χ^2 /NDF: 359051158.7/34

All: 139951.317 $\pm$ 0.031

χ^2 /NDF: 725924388.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388+/-0.048 χ^2/NDF : 1080964.8/16

Left Out: 201.255+/-0.042 χ^2/NDF : 515538.1/15

Right Out: 157.475+/-0.045 χ^2/NDF : 1229886.8/18

Left In: 202.136+/-0.043 χ^2/NDF : 451688.8/14

Left: 201.691+/-0.030 χ^2/NDF : 967443.1/30

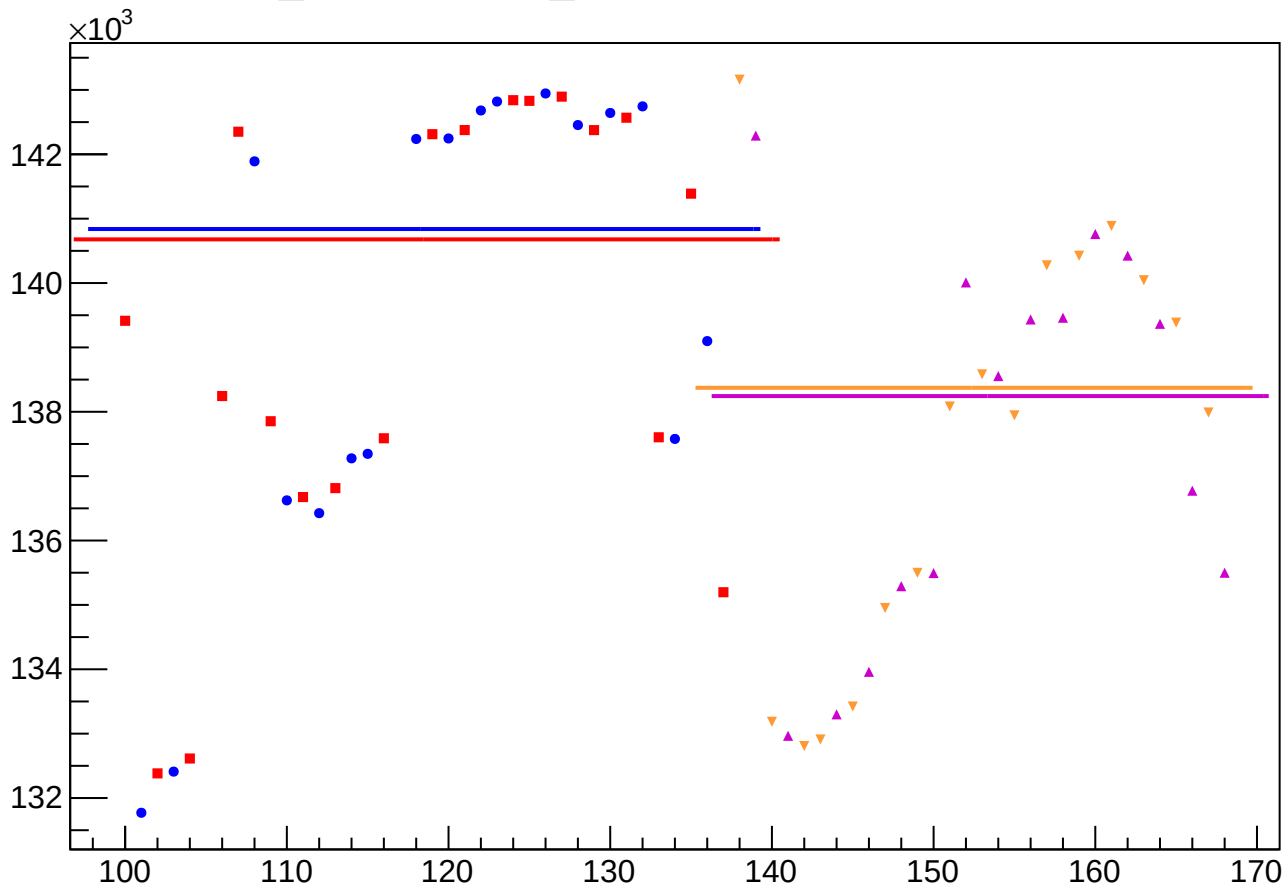
Right: 161.576+/-0.033 χ^2/NDF : 2329186.5/35

In: 186.508+/-0.032 χ^2/NDF : 1840187.4/31

Out: 180.610+/-0.031 χ^2/NDF : 2253482.6/34

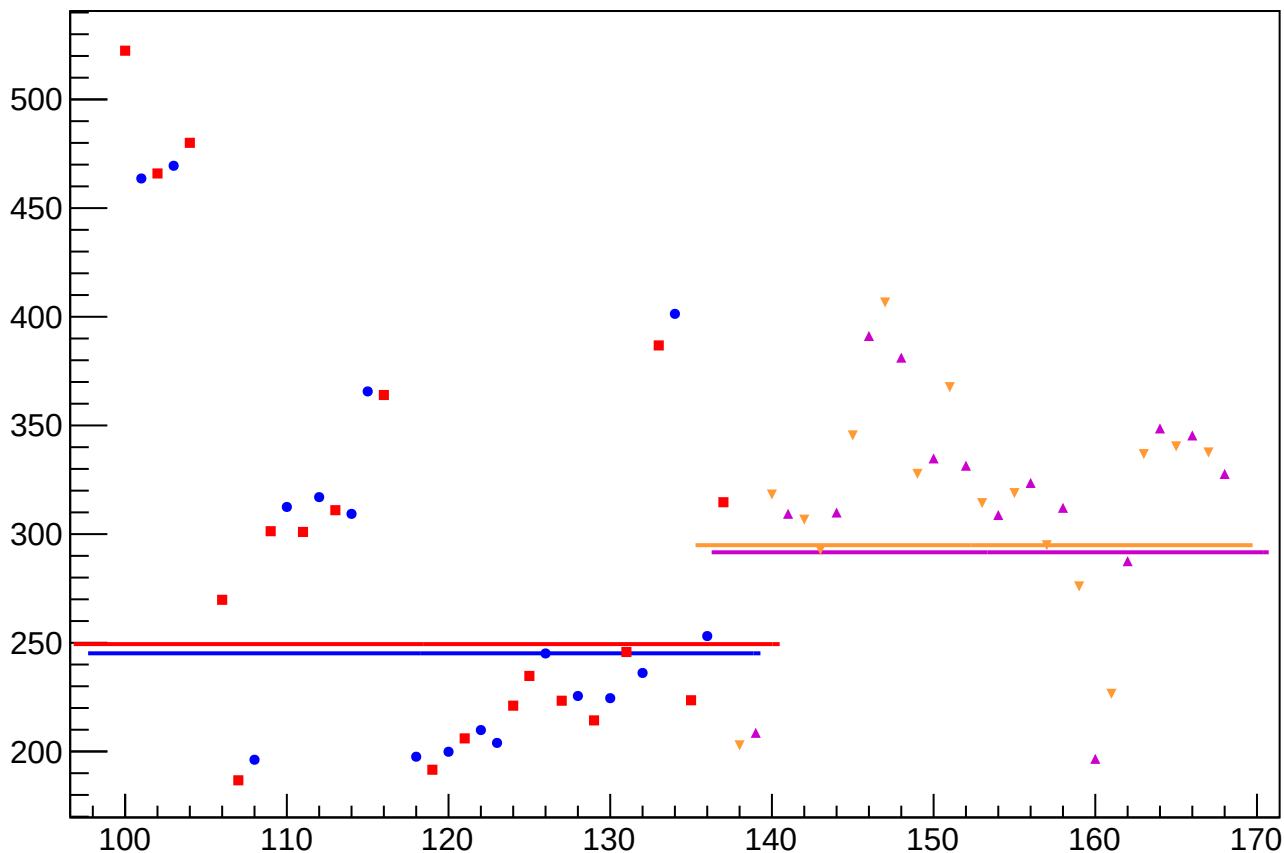
All: 183.435+/-0.022 χ^2/NDF : 4111395.9/66

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138308.452 $\pm$ 0.063	χ^2/NDF : 2571906135.0/3
Left Out: 138372.779 $\pm$ 0.088	χ^2/NDF : 1396053223.4/15	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: 139383.340 $\pm$ 0.066	χ^2/NDF : 2375176494.2/3
Left In: 138244.067 $\pm$ 0.088	χ^2/NDF : 1174794217.8/14	Out: 139394.925 $\pm$ 0.066	χ^2/NDF : 2538106826.7/3
		All: 139389.158 $\pm$ 0.047	χ^2/NDF : 49132986

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2/NDF : 869491.6/16

Left Out: 294.905 $\pm$ 0.063 χ^2/NDF : 757505.8/15

Right Out: 249.397 $\pm$ 0.070 χ^2/NDF : 1009731.2/18

Left In: 291.639 $\pm$ 0.063 χ^2/NDF : 923329.8/14

Left: 293.272 $\pm$ 0.044 χ^2/NDF : 1682199.0/30

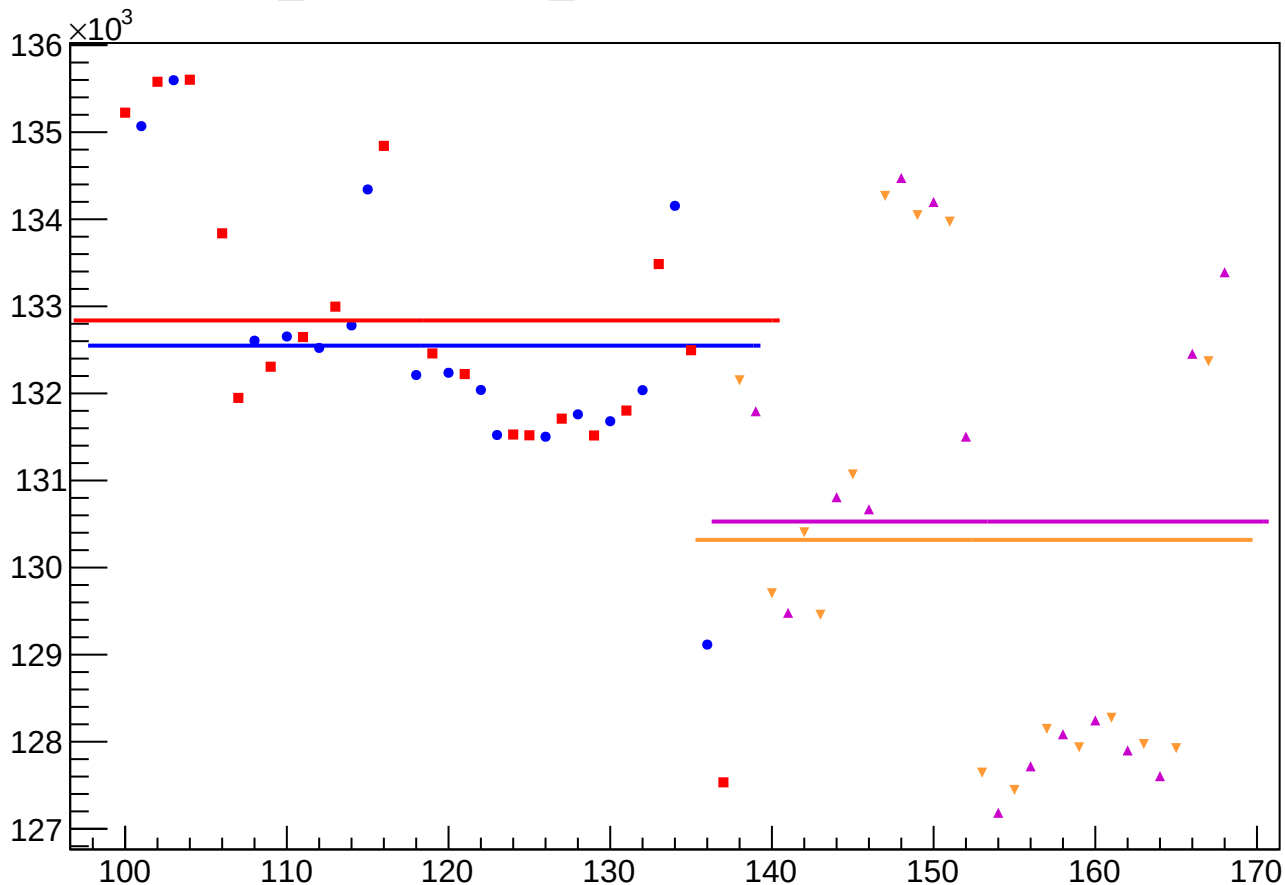
Right: 247.297 $\pm$ 0.050 χ^2/NDF : 1881034.9/35

In: 271.233 $\pm$ 0.047 χ^2/NDF : 2035150.3/31

Out: 274.731 $\pm$ 0.047 χ^2/NDF : 2002020.6/34

All: 272.990 $\pm$ 0.033 χ^2/NDF : 4039968.7/66

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2/NDF : 161115079.9/16

Left Out: 130318.078 $\pm$ 0.078 χ^2/NDF : 677867655.0/15

Right Out: 132838.294 $\pm$ 0.107 χ^2/NDF : 149611447.6/18

Left In: 130528.628 $\pm$ 0.080 χ^2/NDF : 684500639.5/14

Left: 130420.598 $\pm$ 0.056 χ^2/NDF : 1365887948.5/3

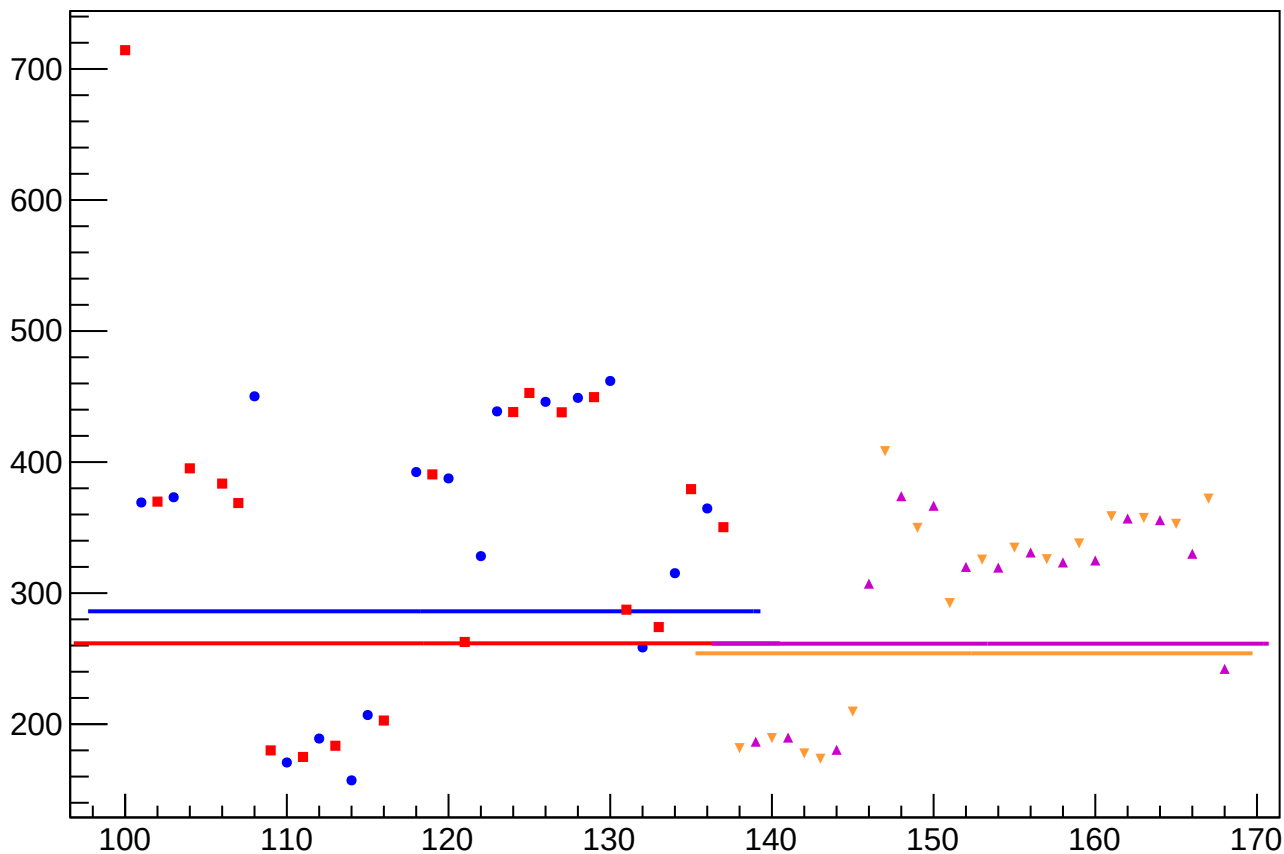
Right: 132709.226 $\pm$ 0.080 χ^2/NDF : 313982981.1/3

In: 131158.978 $\pm$ 0.067 χ^2/NDF : 1042673750.8/3

Out: 131196.103 $\pm$ 0.063 χ^2/NDF : 1188290521.6/3

All: 131178.530 $\pm$ 0.046 χ^2/NDF : 223112752

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 254.051+/-0.055 χ^2/NDF : 2096524.7/15

Right Out: 261.686+/-0.076 χ^2/NDF : 1623174.1/18

Left In: 261.416+/-0.057 χ^2/NDF : 1644248.4/14

Left: 257.637+/-0.040 χ^2/NDF : 3749388.6/30

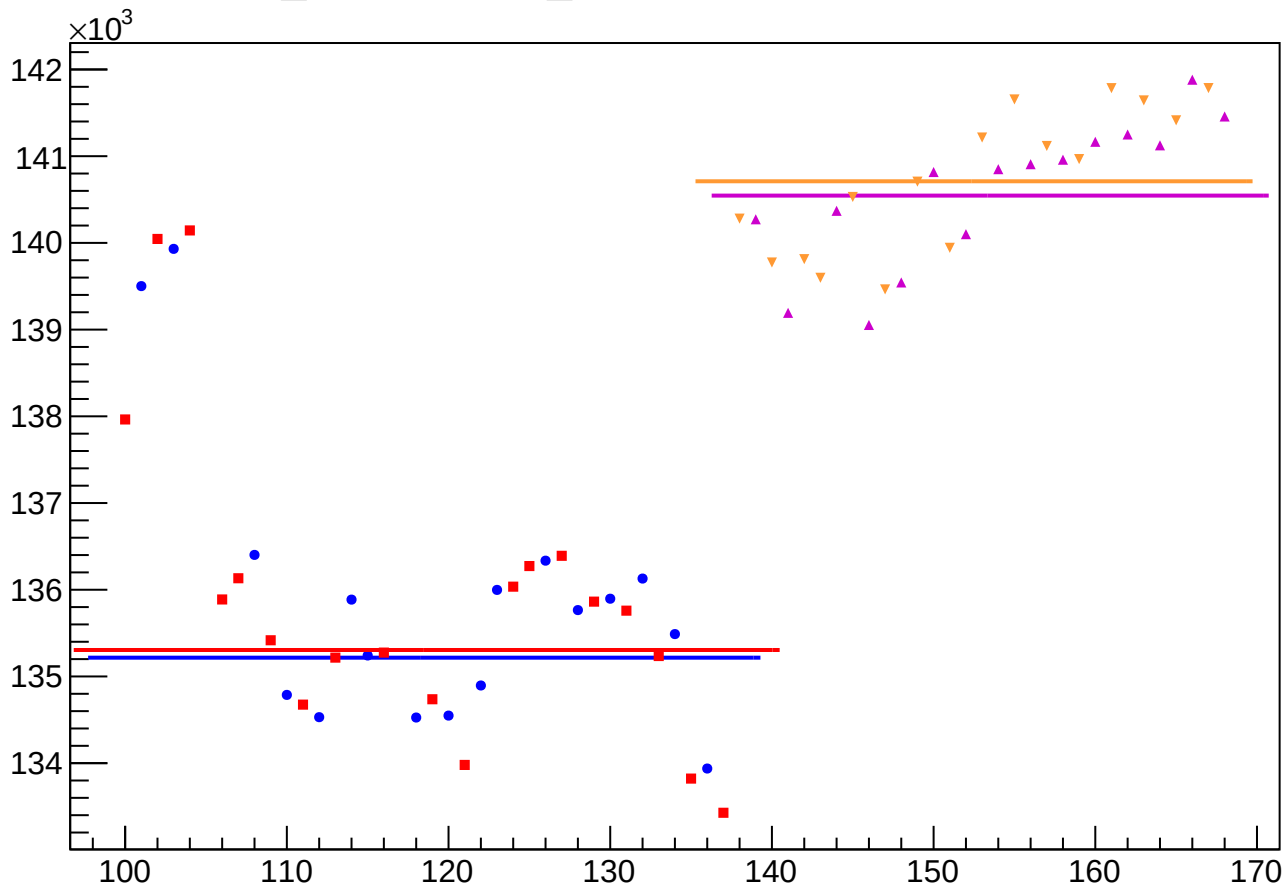
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 269.125+/-0.047 χ^2/NDF : 3228454.0/31

Out: 256.711+/-0.045 χ^2/NDF : 3726323.1/34

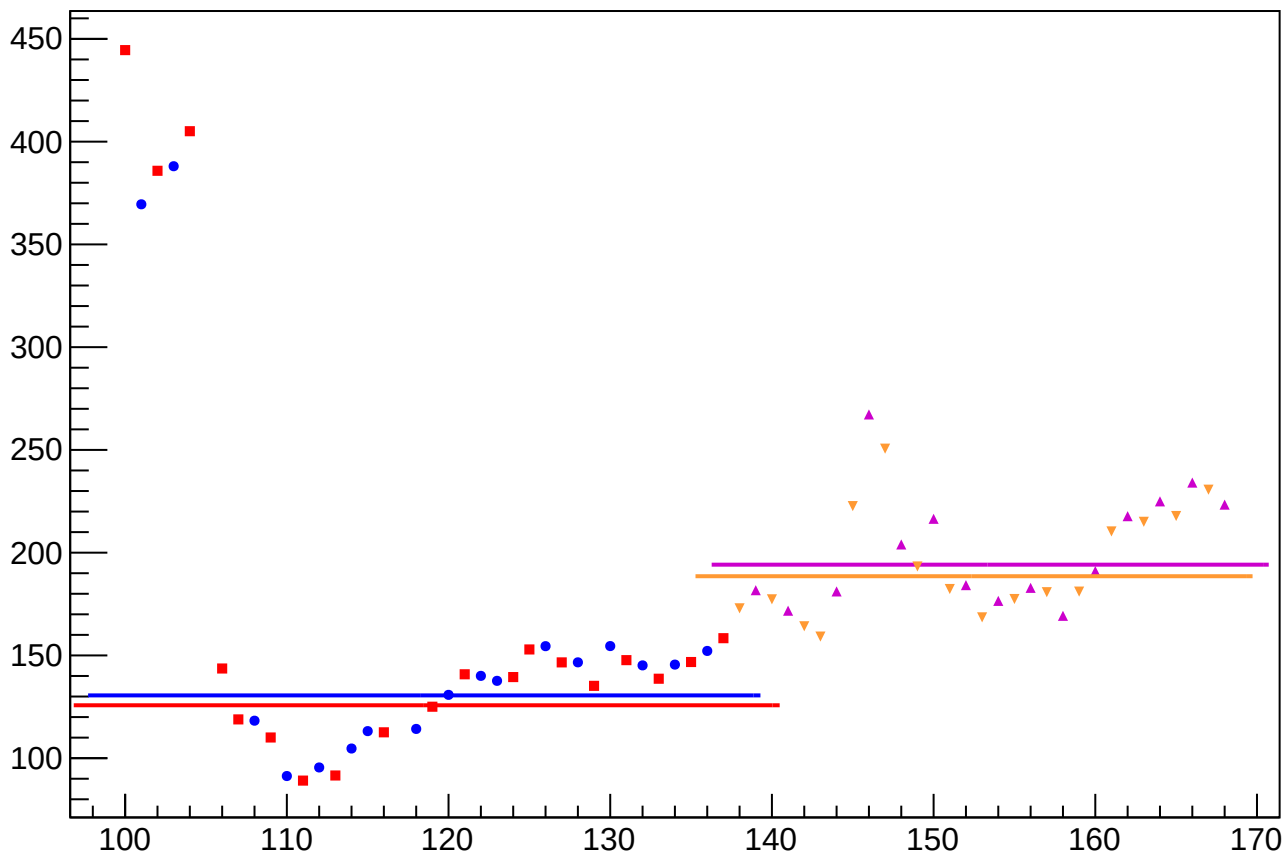
All: 262.587+/-0.032 χ^2/NDF : 6991286.8/66

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054	χ^2 /NDF: 371347707.3/16	Left: 140631.028 $\pm$ 0.040	χ^2 /NDF: 362788714.9/30
Left Out: 140710.634 $\pm$ 0.056	χ^2 /NDF: 194081907.7/15	Right: 135263.557 $\pm$ 0.037	χ^2 /NDF: 730392205.8/3
Right Out: 135305.135 $\pm$ 0.051	χ^2 /NDF: 357636841.6/18	In: 137715.112 $\pm$ 0.040	χ^2 /NDF: 5042160952.4/3
Left In: 140545.457 $\pm$ 0.058	χ^2 /NDF: 164483773.7/14	Out: 137772.853 $\pm$ 0.038	χ^2 /NDF: 5651894469.2/3
		All: 137745.410 $\pm$ 0.027	χ^2 /NDF: 106951702

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 188.538 $\pm$ 0.039 χ^2 /NDF: 354742.1/15

Right Out: 125.746 $\pm$ 0.036 χ^2 /NDF: 1440002.5/18

Left In: 194.160 $\pm$ 0.041 χ^2 /NDF: 338442.1/14

Left: 191.247 $\pm$ 0.028 χ^2 /NDF: 702967.7/30

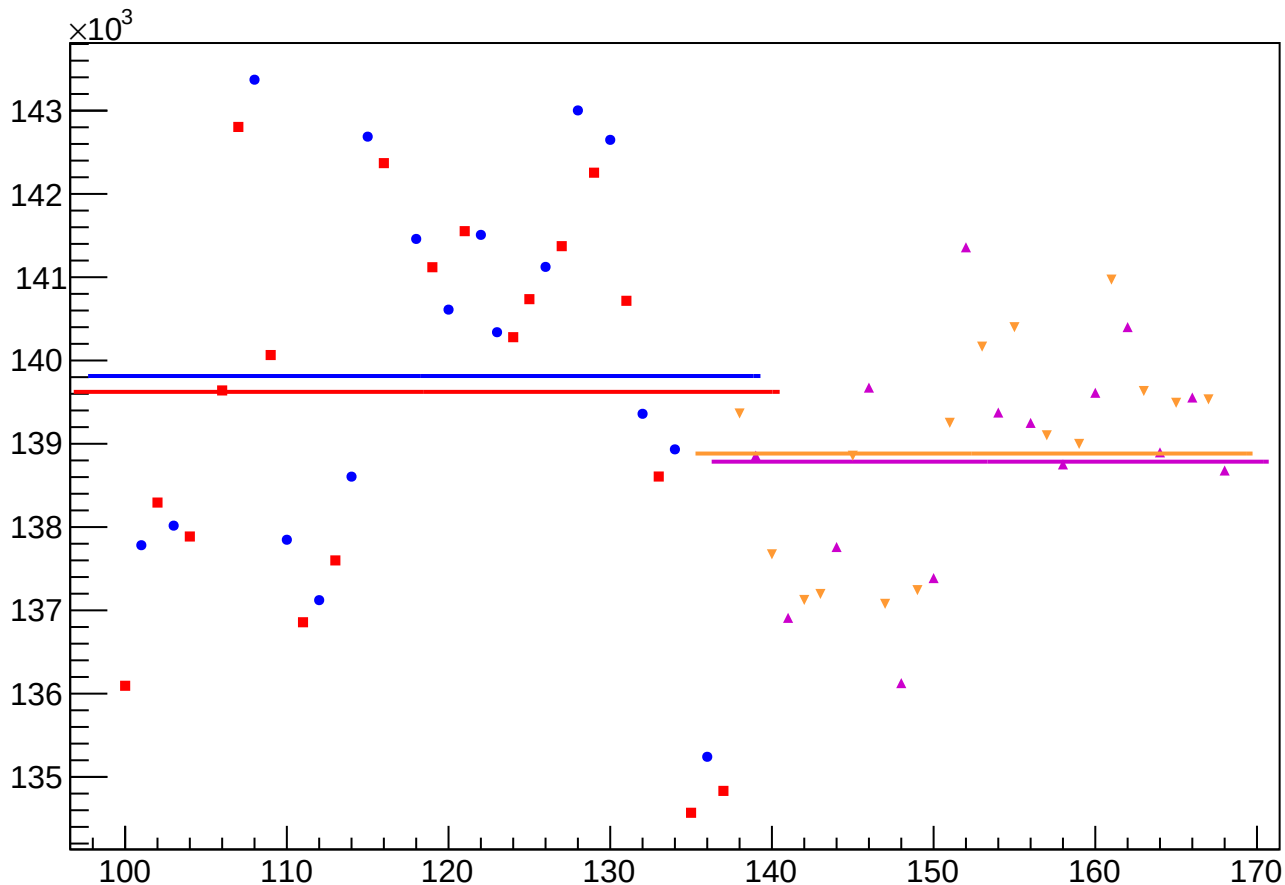
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 160.375 $\pm$ 0.028 χ^2 /NDF: 2995668.2/31

Out: 154.411 $\pm$ 0.027 χ^2 /NDF: 3171179.5/34

All: 157.246 $\pm$ 0.019 χ^2 /NDF: 6190631.5/66

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 ± 0.062

$\chi^2/\text{NDF}: 1689865533.6/16$

Left Out: 138882.777 ± 0.057

$\chi^2/\text{NDF}: 440546771.1/15$

Right Out: 139623.387 ± 0.059

$\chi^2/\text{NDF}: 1505731109.1/18$

Left In: 138785.160 ± 0.058

$\chi^2/\text{NDF}: 524120698.0/14$

Left: 138834.807 ± 0.041

$\chi^2/\text{NDF}: 966090437.8/30$

Right: 139713.961 ± 0.043

$\chi^2/\text{NDF}: 3200544274.5/15$

In: 139268.971 ± 0.042

$\chi^2/\text{NDF}: 2360090317.6/31$

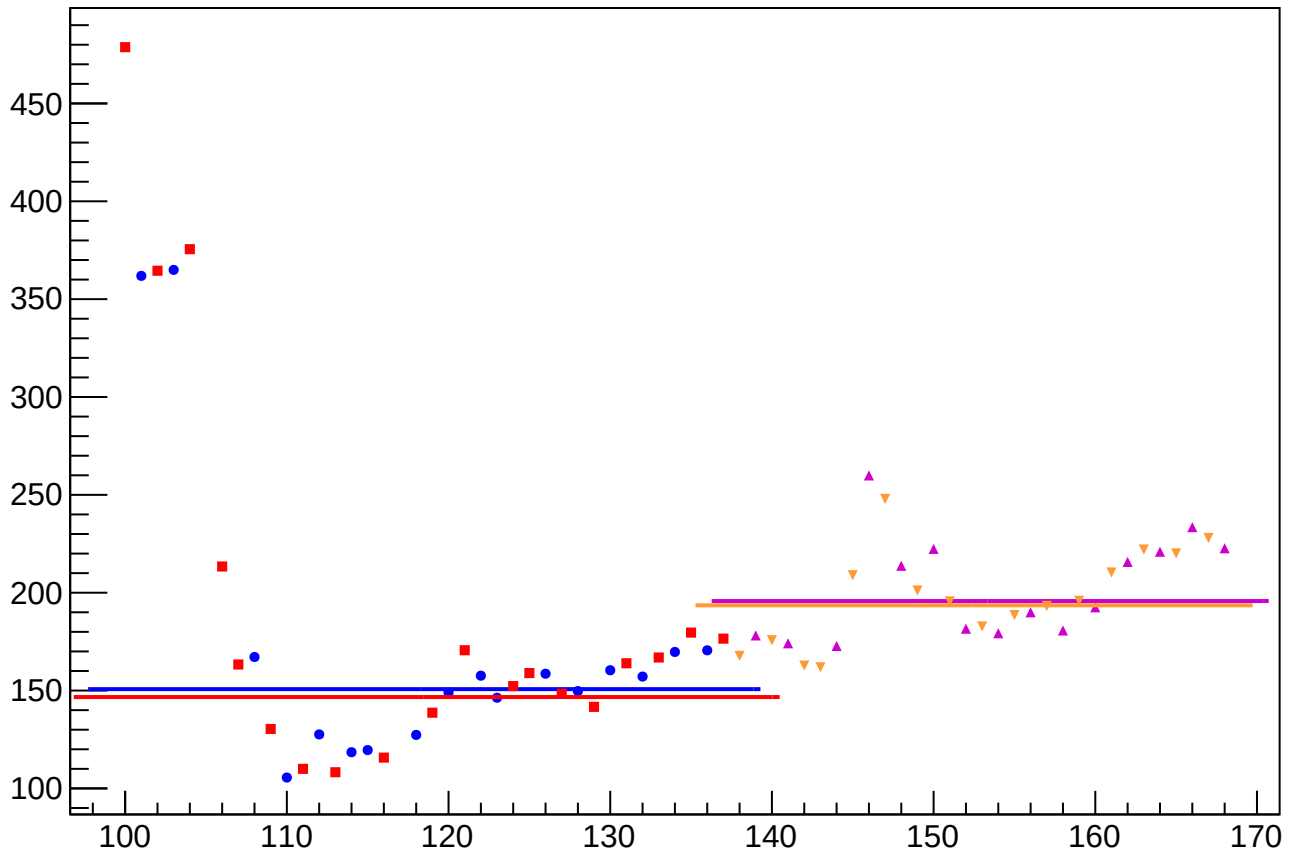
Out: 139242.557 ± 0.041

$\chi^2/\text{NDF}: 2027249154.1/31$

All: 139255.343 ± 0.030

$\chi^2/\text{NDF}: 438753904.1/14$

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 193.557 $\pm$ 0.041 χ^2 /NDF:305740.8/15

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 195.751 $\pm$ 0.041 χ^2 /NDF:314428.5/14

Left: 194.635 $\pm$ 0.029 χ^2 /NDF: 621607.1/30

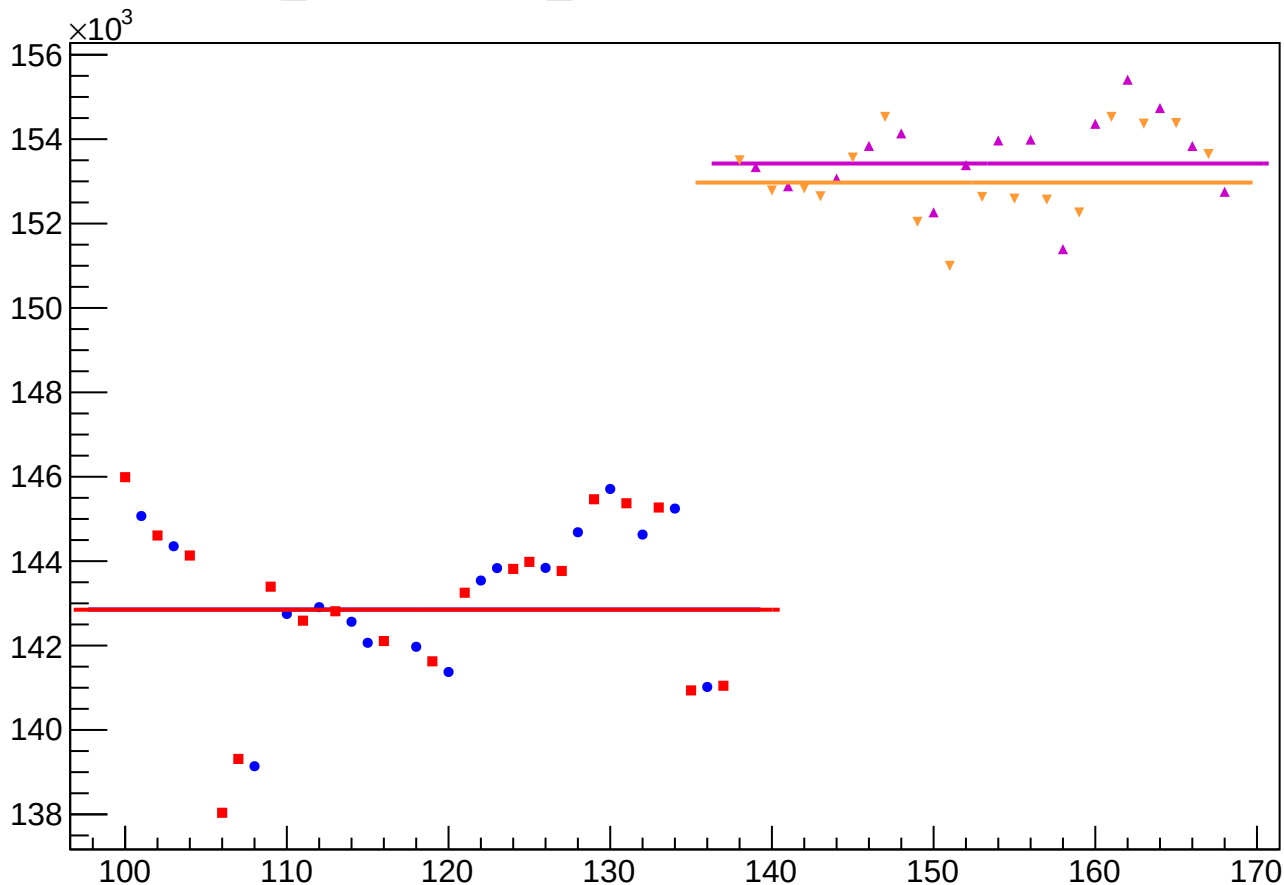
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 174.574 $\pm$ 0.030 χ^2 /NDF:1924327.7/31

Out: 170.787 $\pm$ 0.029 χ^2 /NDF:2157475.8/34

All: 172.621 $\pm$ 0.021 χ^2 /NDF: 4090008.3/66

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16

Left Out: 152971.919 $\pm$ 0.058 χ^2 /NDF: 259116469.2/15

Right Out: 142849.362 $\pm$ 0.060 χ^2 /NDF: 850066807.5/18

Left In: 153422.822 $\pm$ 0.059 χ^2 /NDF: 265991259.8/14

Left: 153193.972 $\pm$ 0.041 χ^2 /NDF: 554797746.5/30

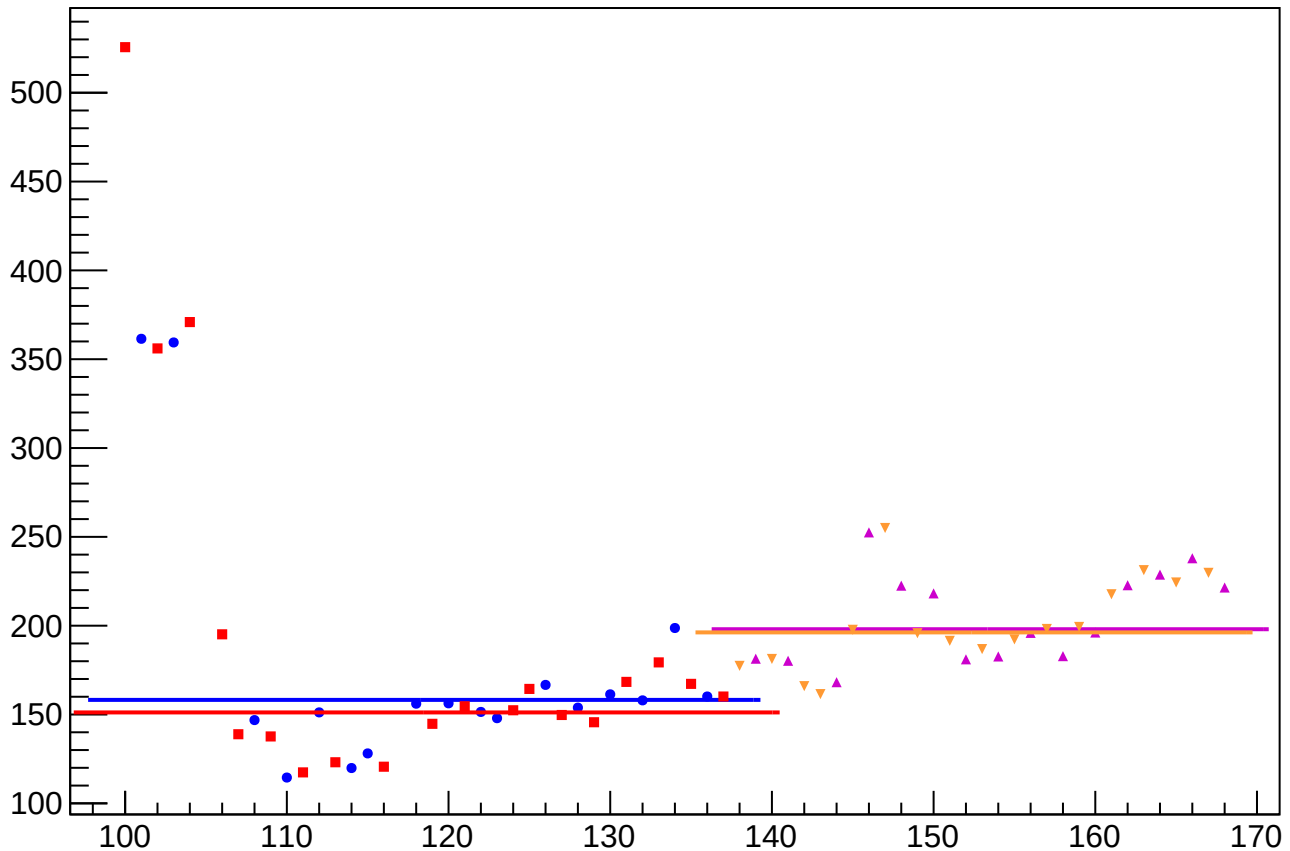
Right: 142851.648 $\pm$ 0.044 χ^2 /NDF: 1590437268.8/30

In: 148625.571 $\pm$ 0.044 χ^2 /NDF: 15593988100.6/30

Out: 148109.177 $\pm$ 0.042 χ^2 /NDF: 15705540949.3/30

All: 148357.073 $\pm$ 0.030 χ^2 /NDF: 313725827.0/60

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 196.226+/-0.041 χ^2/NDF : 301919.4/15

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 198.010+/-0.042 χ^2/NDF : 312943.7/14

Left: 197.105+/-0.029 χ^2/NDF : 615792.5/30

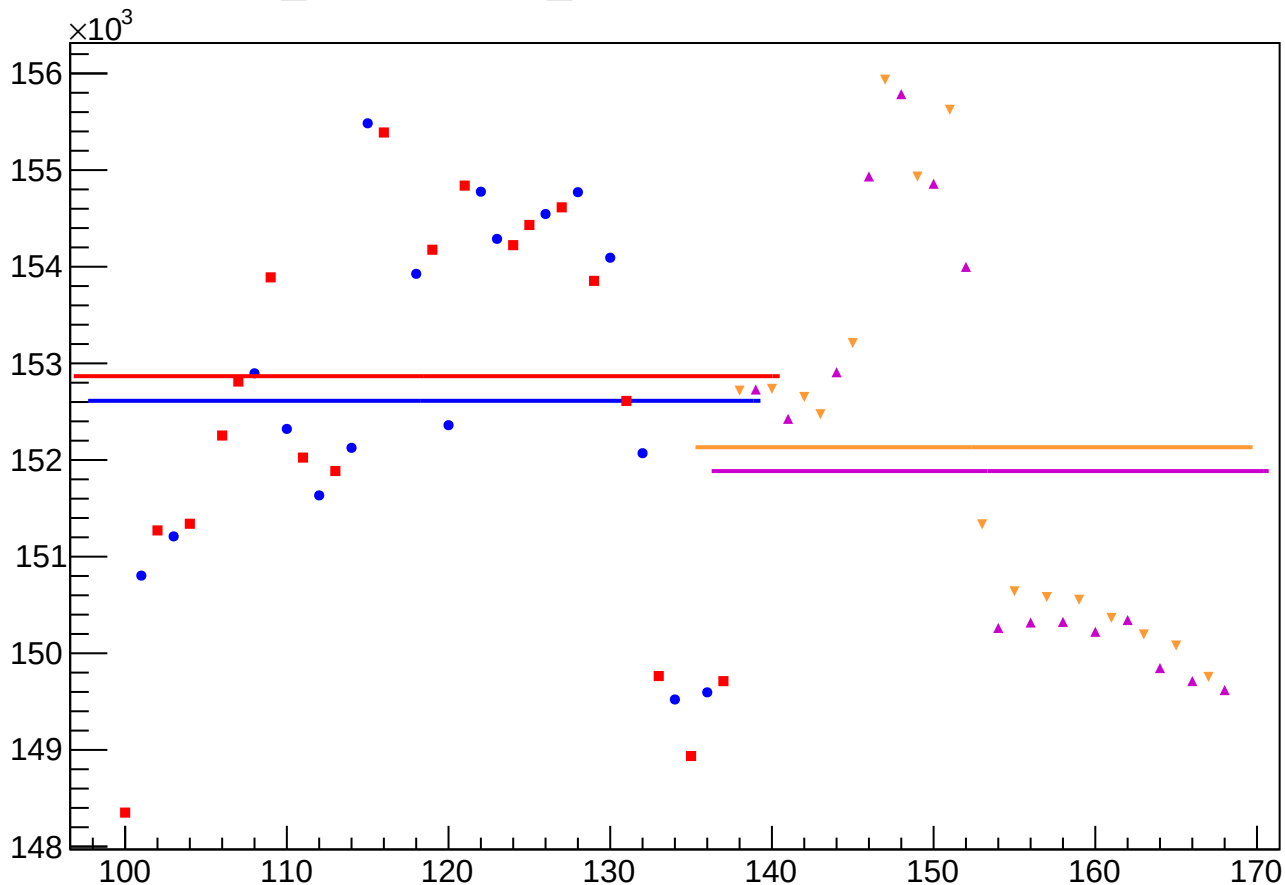
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 179.954+/-0.031 χ^2/NDF : 1609752.2/31

Out: 174.584+/-0.030 χ^2/NDF : 1883485.0/34

All: 177.162+/-0.021 χ^2/NDF : 3509041.1/66

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152132.286 $\pm$ 0.058 χ^2 /NDF: 997280475.3/15

Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18

Left In: 151885.422 $\pm$ 0.059 χ^2 /NDF: 1092918197.0/14

Left: 152010.878 $\pm$ 0.041 χ^2 /NDF: 2099080760.7/3

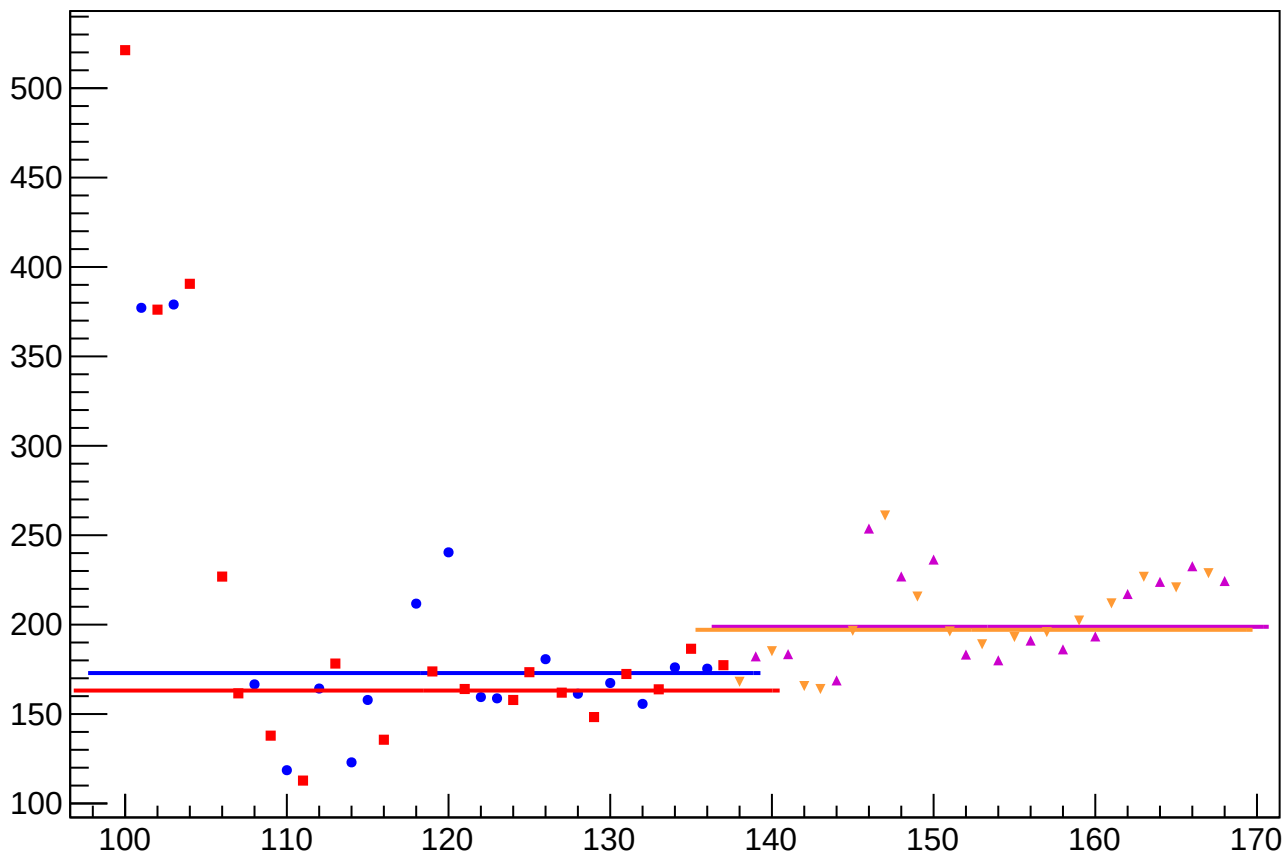
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/3

In: 152177.037 $\pm$ 0.046 χ^2 /NDF: 1775148943.3/3

Out: 152452.007 $\pm$ 0.044 χ^2 /NDF: 1786014412.0/3

All: 152320.774 $\pm$ 0.032 χ^2 /NDF: 358008736

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 197.104+/-0.041 χ^2/NDF : 318082.6/15

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 198.797+/-0.042 χ^2/NDF : 328204.5/14

Left: 197.937+/-0.029 χ^2/NDF : 647122.6/30

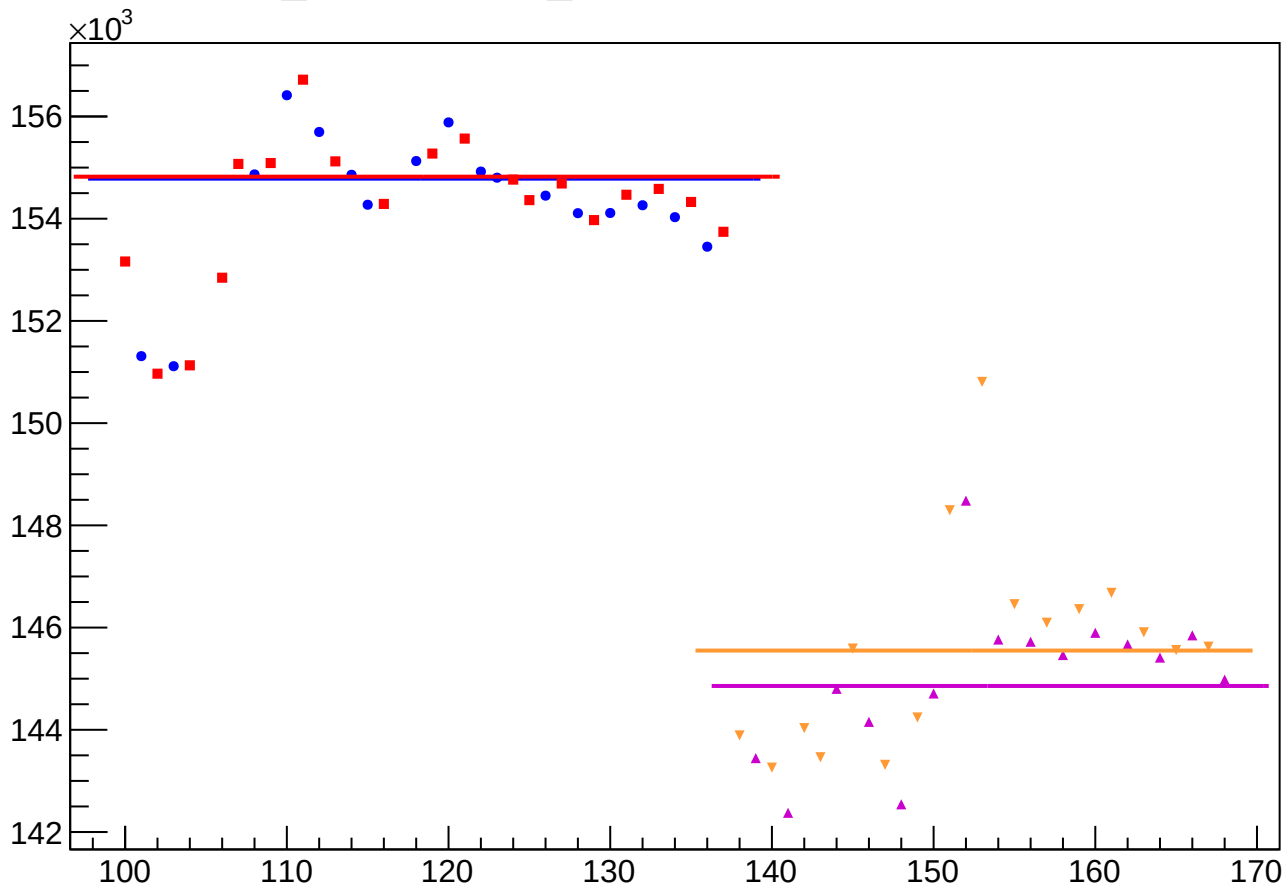
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 188.420+/-0.032 χ^2/NDF : 1424182.3/31

Out: 182.333+/-0.031 χ^2/NDF : 1649222.8/34

All: 185.238+/-0.022 χ^2/NDF : 3091955.1/66

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065 χ^2 /NDF: 265581398.0/16

Left Out: 145550.493 $\pm$ 0.054 χ^2 /NDF: 1481806688.4/15

Right Out: 154822.113 $\pm$ 0.061 χ^2 /NDF: 293850525.9/18

Left In: 144857.755 $\pm$ 0.055 χ^2 /NDF: 822465305.1/14

Left: 145212.933 $\pm$ 0.039 χ^2 /NDF: 2384169153.9/3

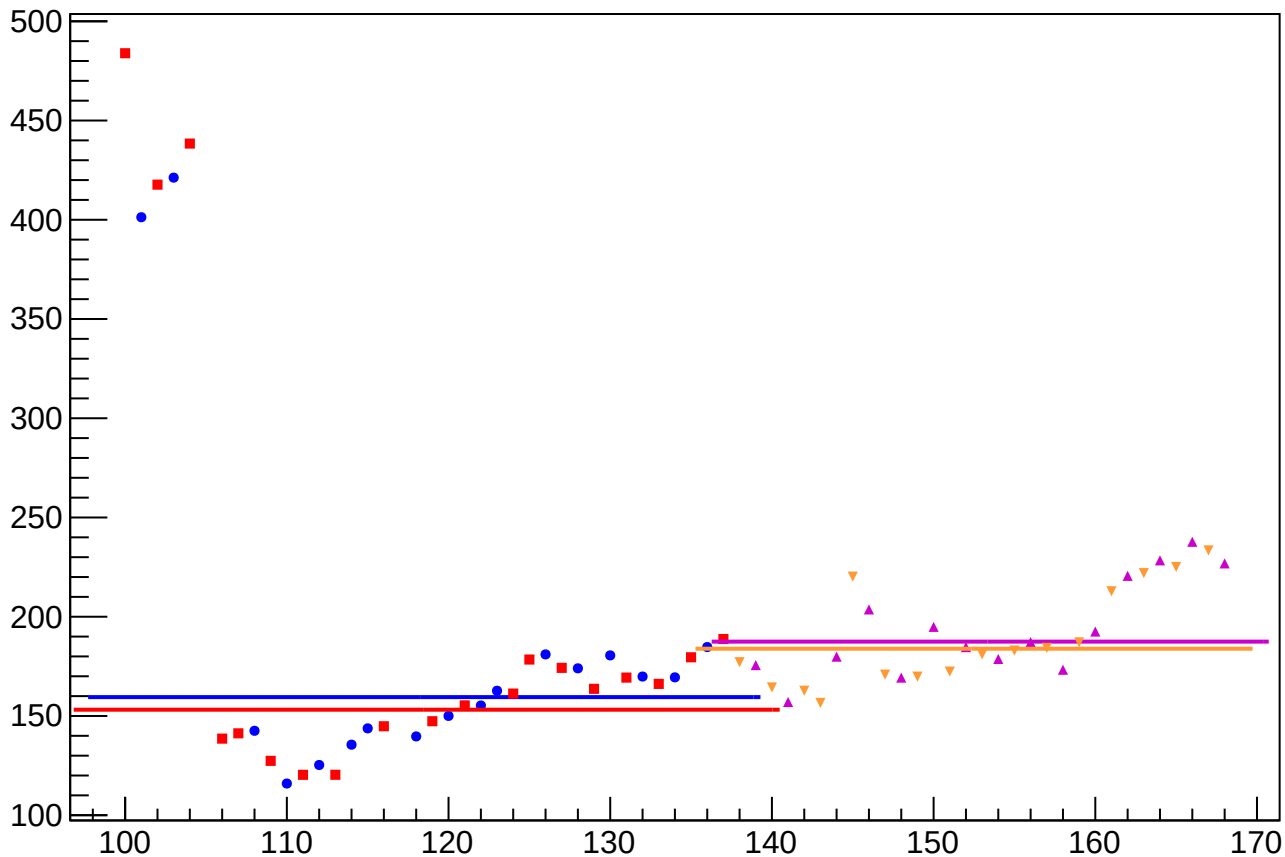
Right: 154804.381 $\pm$ 0.045 χ^2 /NDF: 559614489.4/3

In: 149015.253 $\pm$ 0.042 χ^2 /NDF: 14488824404.6/3

Out: 149640.868 $\pm$ 0.040 χ^2 /NDF: 14733399544.6

All: 149342.136 $\pm$ 0.029 χ^2 /NDF: 293364906

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2/NDF : 1131844.5/16

Left Out: 183.894 $\pm$ 0.038 χ^2/NDF : 329309.0/15

Right Out: 153.153 $\pm$ 0.043 χ^2/NDF : 1173739.7/18

Left In: 187.454 $\pm$ 0.039 χ^2/NDF : 290543.4/14

Left: 185.629 $\pm$ 0.027 χ^2/NDF : 624074.7/30

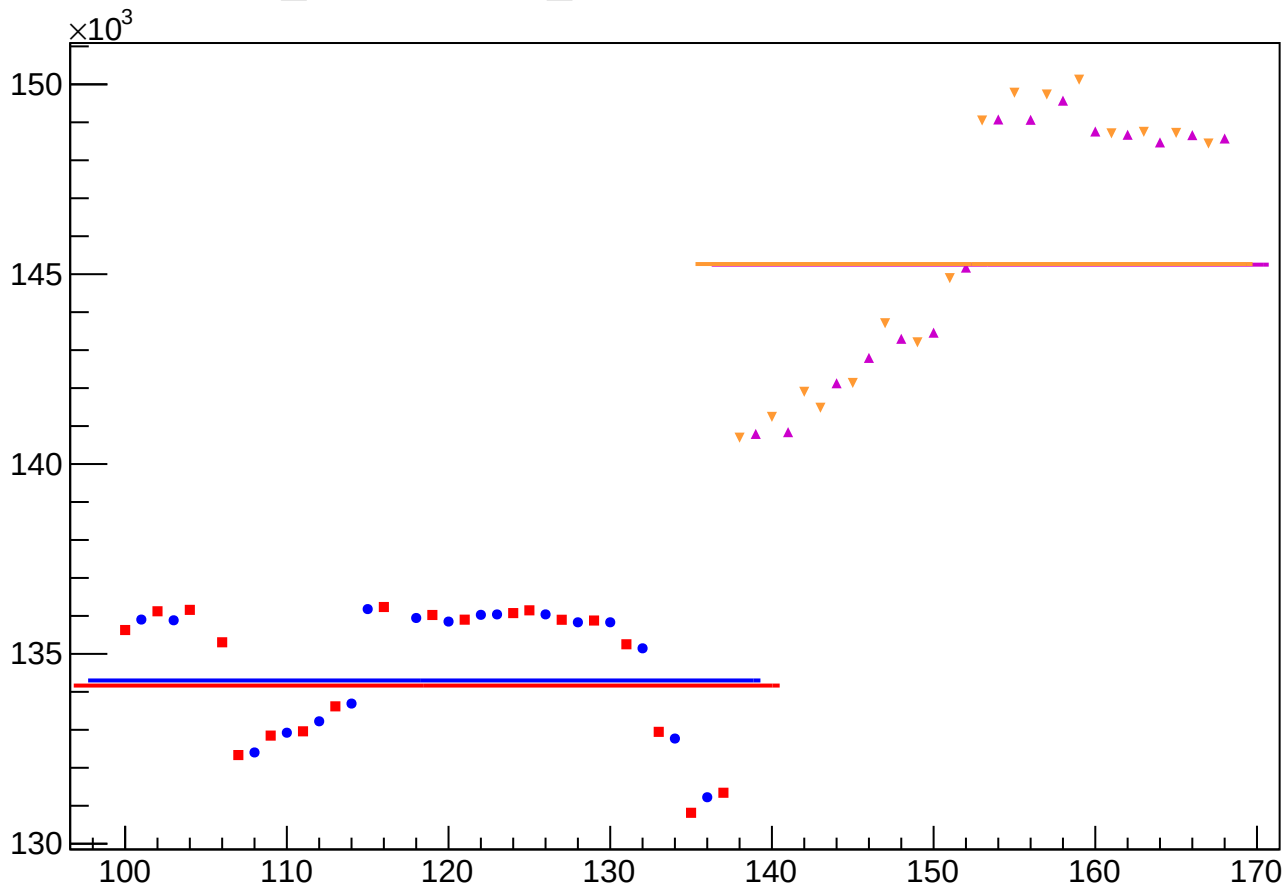
Right: 156.104 $\pm$ 0.032 χ^2/NDF : 2315690.5/35

In: 175.748 $\pm$ 0.030 χ^2/NDF : 1634899.5/31

Out: 170.332 $\pm$ 0.029 χ^2/NDF : 1787925.7/34

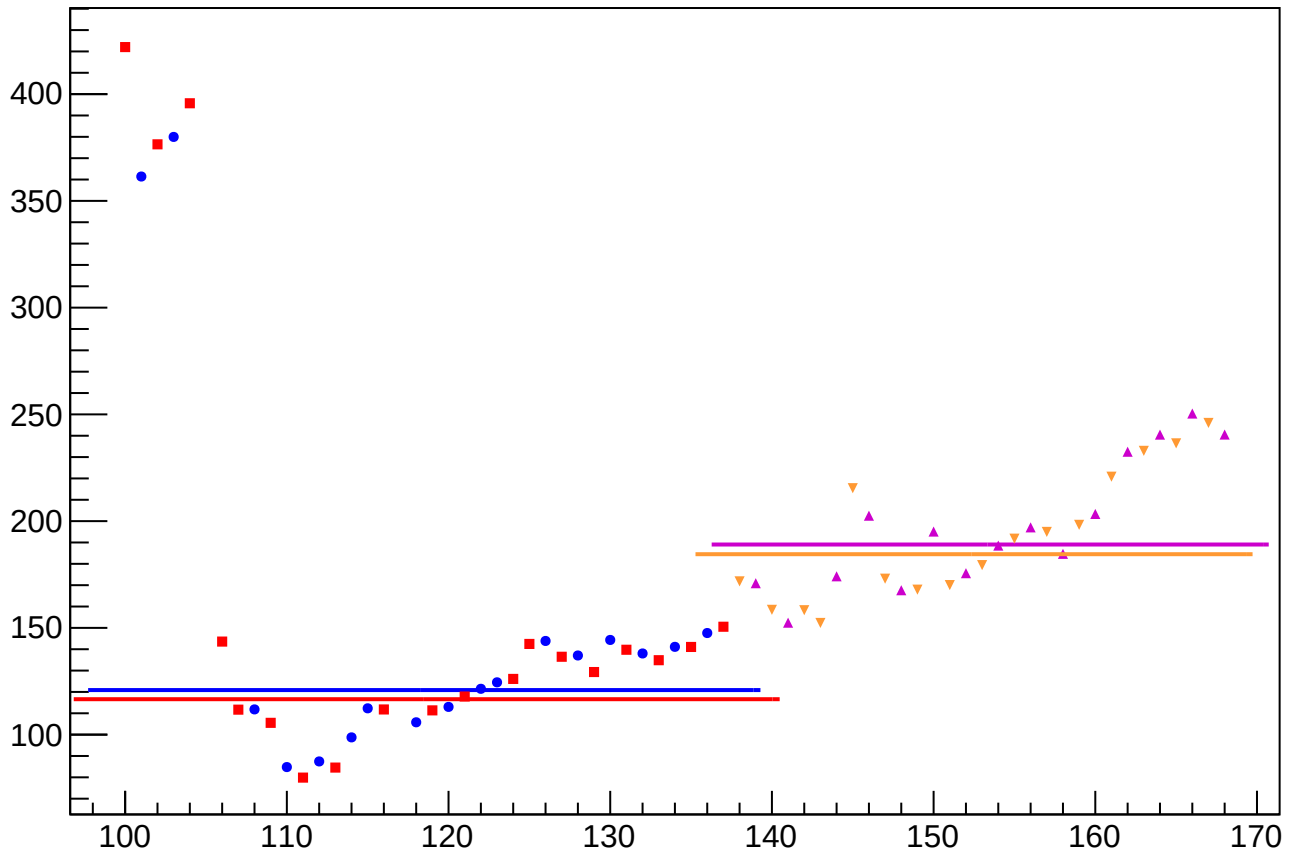
All: 172.918 $\pm$ 0.021 χ^2/NDF : 3439950.6/66

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145259.597 $\pm$ 0.039	χ^2 /NDF: 7790442301.3/3
Left Out: 145267.495 $\pm$ 0.054	χ^2 /NDF: 4221206305.0/15	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: 139176.981 $\pm$ 0.037	χ^2 /NDF: 25792678166.8/3
Left In: 145251.194 $\pm$ 0.056	χ^2 /NDF: 3569192601.2/14	Out: 138948.915 $\pm$ 0.036	χ^2 /NDF: 29075017495.6
		All: 139057.538 $\pm$ 0.026	χ^2 /NDF: 548870745

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872+/-0.036 χ^2/NDF : 1463728.4/16

Left Out: 184.510+/-0.039 χ^2/NDF : 472280.4/15

Right Out: 116.595+/-0.034 χ^2/NDF : 1541338.5/18

Left In: 189.046+/-0.040 χ^2/NDF : 428464.6/14

Left: 186.708+/-0.028 χ^2/NDF : 907467.0/30

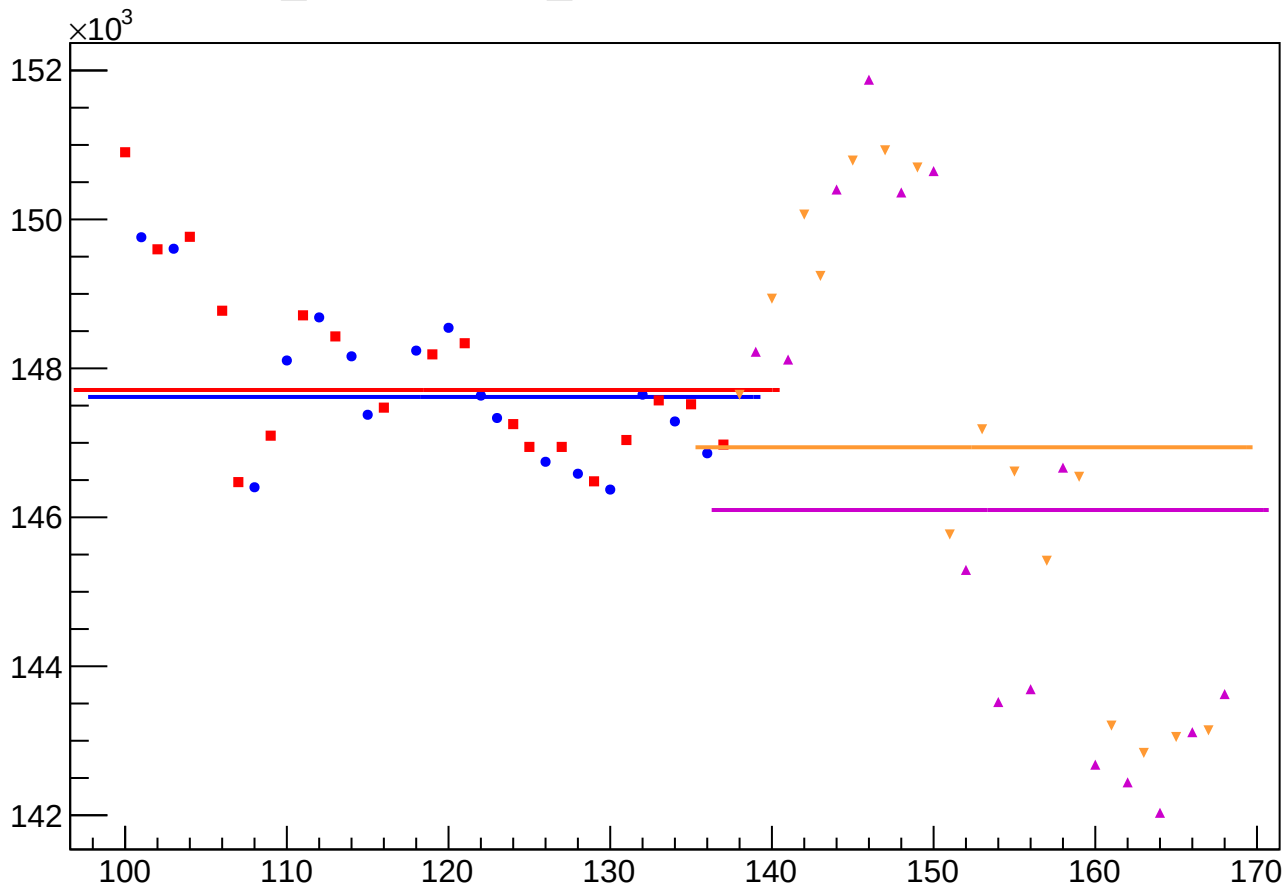
Right: 118.605+/-0.024 χ^2/NDF : 3012723.0/35

In: 151.233+/-0.027 χ^2/NDF : 3525578.5/31

Out: 145.856+/-0.025 χ^2/NDF : 3783148.8/34

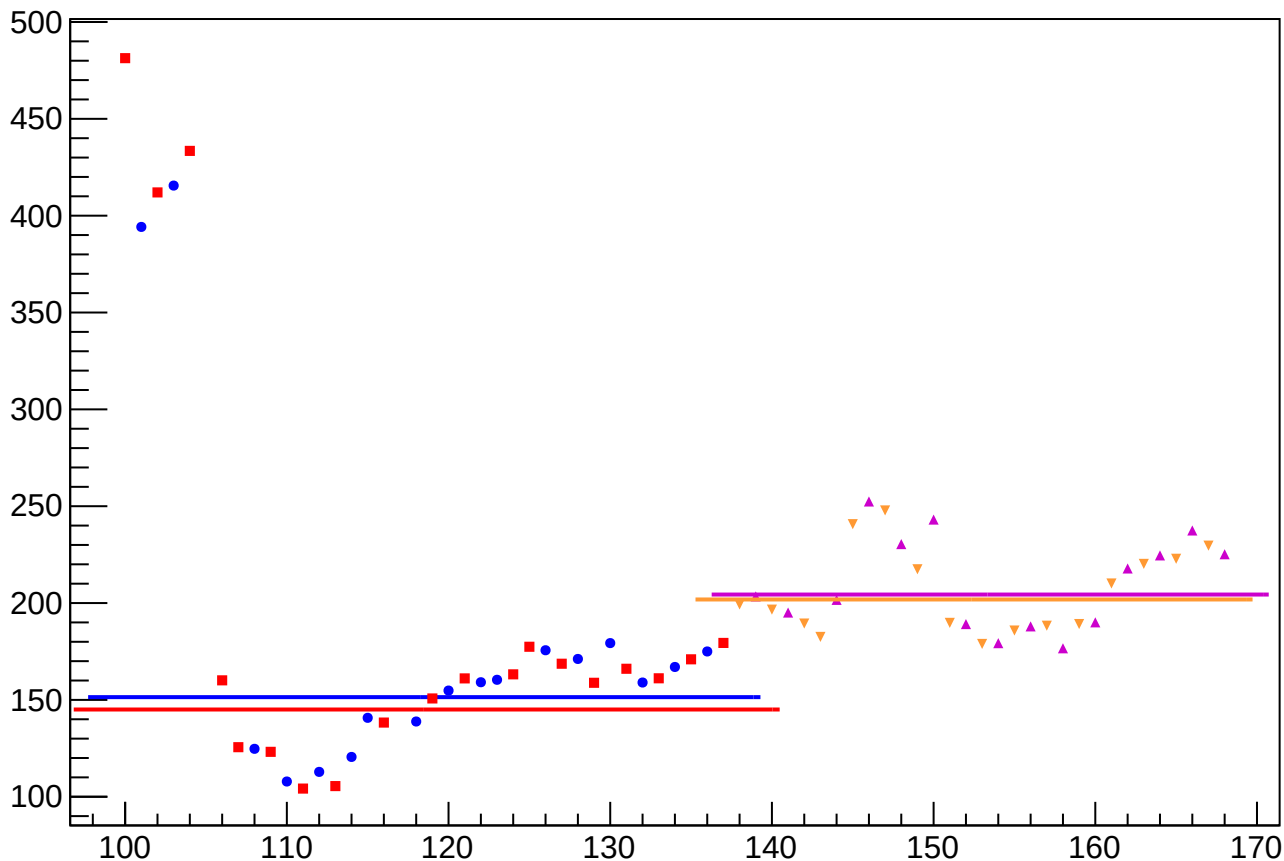
All: 148.417+/-0.018 χ^2/NDF : 7330267.7/66

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 146527.985+/-0.042	χ^2/NDF : 4725506153.3/3
Left Out: 146940.592+/-0.059	χ^2/NDF : 1922564551.5/15	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146833.240+/-0.043	χ^2/NDF : 3207830298.9/3
Left In: 146098.357+/-0.061	χ^2/NDF : 2704202748.3/14	Out: 147331.691+/-0.042	χ^2/NDF : 2211939386.1/3
		All: 147093.513+/-0.030	χ^2/NDF : 54883995

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 201.845+/-0.042 χ^2/NDF : 225934.1/15

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 204.391+/-0.043 χ^2/NDF : 280073.5/14

Left: 203.092+/-0.030 χ^2/NDF : 507811.4/30

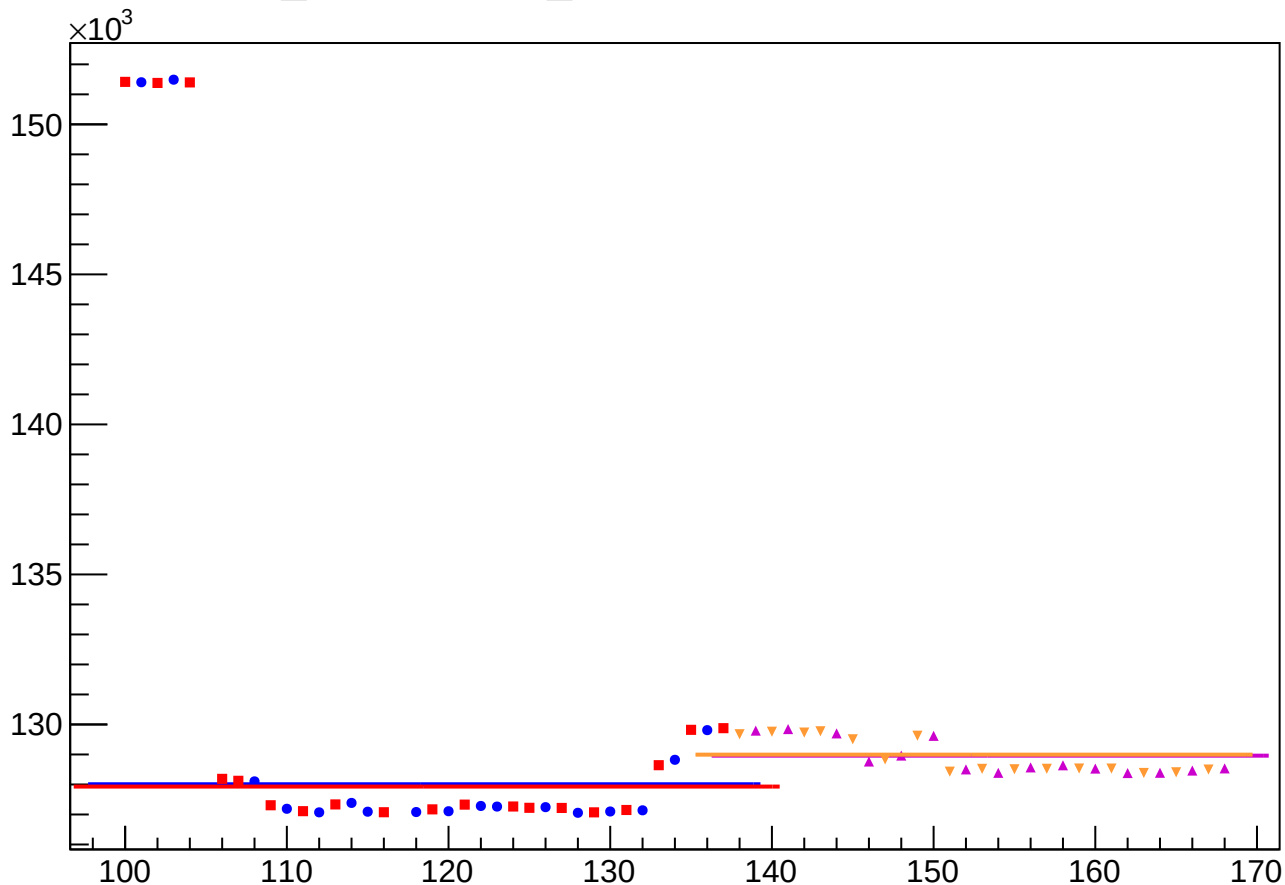
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 178.745+/-0.031 χ^2/NDF : 2279240.9/31

Out: 172.960+/-0.029 χ^2/NDF : 2534352.5/34

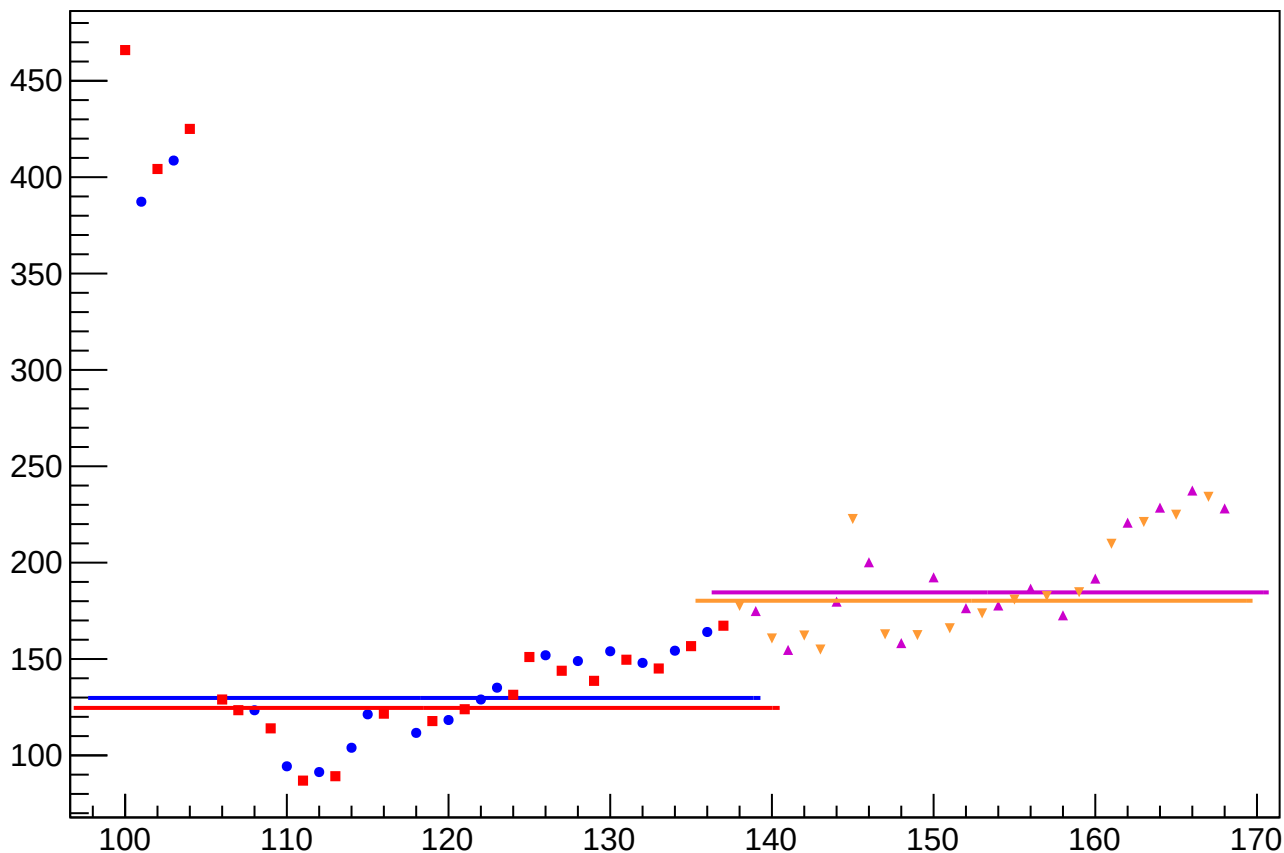
All: 175.724+/-0.021 χ^2/NDF : 4832085.7/66

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054	χ^2 /NDF: 4319785674.5/16	Left: 128977.774 $\pm$ 0.038	χ^2 /NDF: 224718617.6/30
Left Out: 128994.150 $\pm$ 0.053	χ^2 /NDF: 117987903.7/15	Right: 127965.988 $\pm$ 0.037	χ^2 /NDF: 8089052681.4/30
Right Out: 127930.136 $\pm$ 0.050	χ^2 /NDF: 3768176193.0/18	In: 128478.701 $\pm$ 0.038	χ^2 /NDF: 4579654631.1/30
Left In: 128960.346 $\pm$ 0.055	χ^2 /NDF: 106533903.8/14	Out: 128434.860 $\pm$ 0.037	χ^2 /NDF: 4097738655.1/30
		All: 128455.641 $\pm$ 0.026	χ^2 /NDF: 867807612.0/30

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 180.233 $\pm$ 0.038 χ^2 /NDF: 387194.1/15

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 184.565 $\pm$ 0.039 χ^2 /NDF: 339795.6/14

Left: 182.331 $\pm$ 0.027 χ^2 /NDF: 733454.8/30

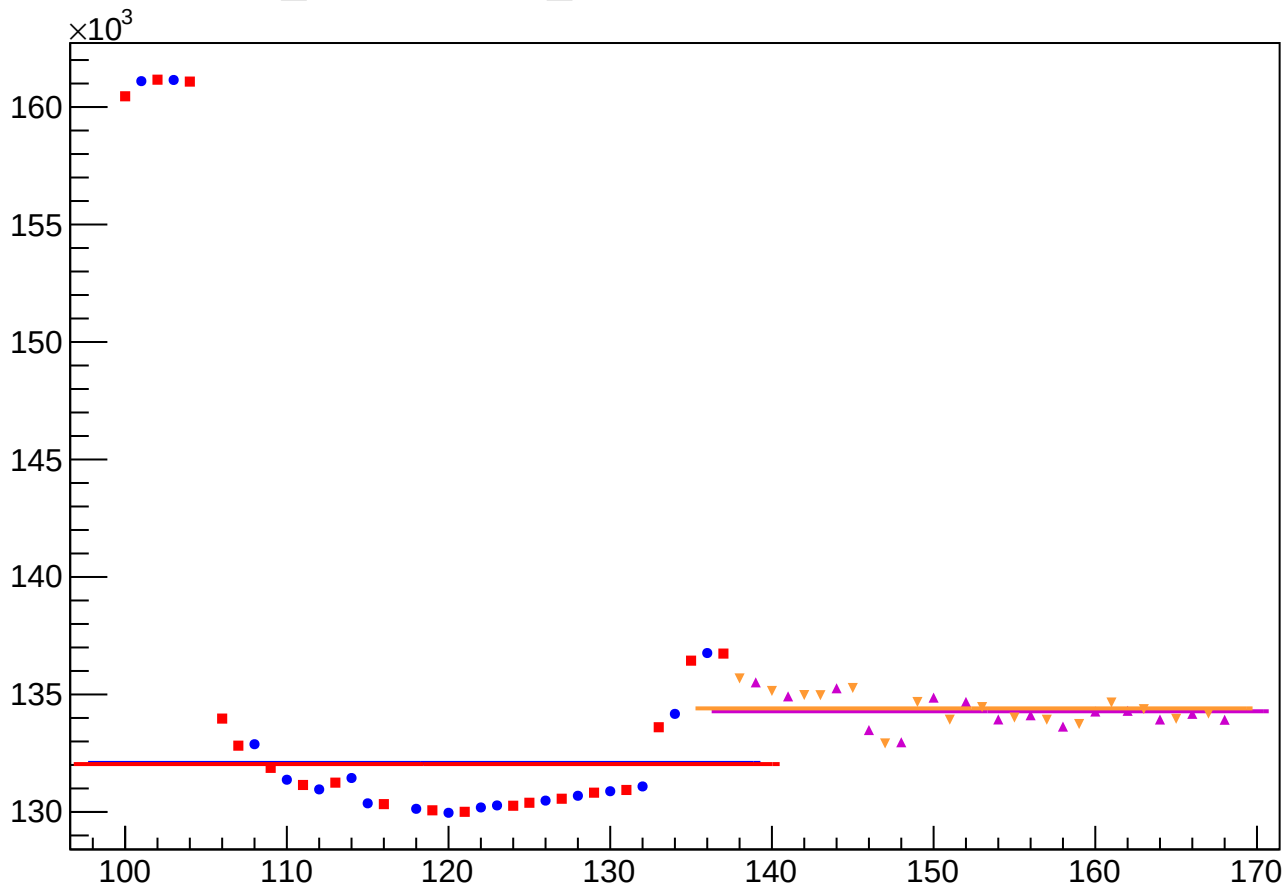
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 156.884 $\pm$ 0.027 χ^2 /NDF: 2837994.3/31

Out: 151.003 $\pm$ 0.026 χ^2 /NDF: 3074796.2/34

All: 153.791 $\pm$ 0.019 χ^2 /NDF: 5937370.0/66

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2 /NDF: 6733230928.7/16

Left: 134347.878 $\pm$ 0.039

χ^2 /NDF: 325214358.1/30

Right: 132060.364 $\pm$ 0.038

χ^2 /NDF: 12615754245.0/15

Left Out: 134407.521 $\pm$ 0.055

χ^2 /NDF: 163511715.5/15

In: 133185.627 $\pm$ 0.040

χ^2 /NDF: 7648383052.7/30

Right Out: 132037.539 $\pm$ 0.053

χ^2 /NDF: 5882115872.9/18

Out: 133169.896 $\pm$ 0.038

χ^2 /NDF: 7018196407.9/30

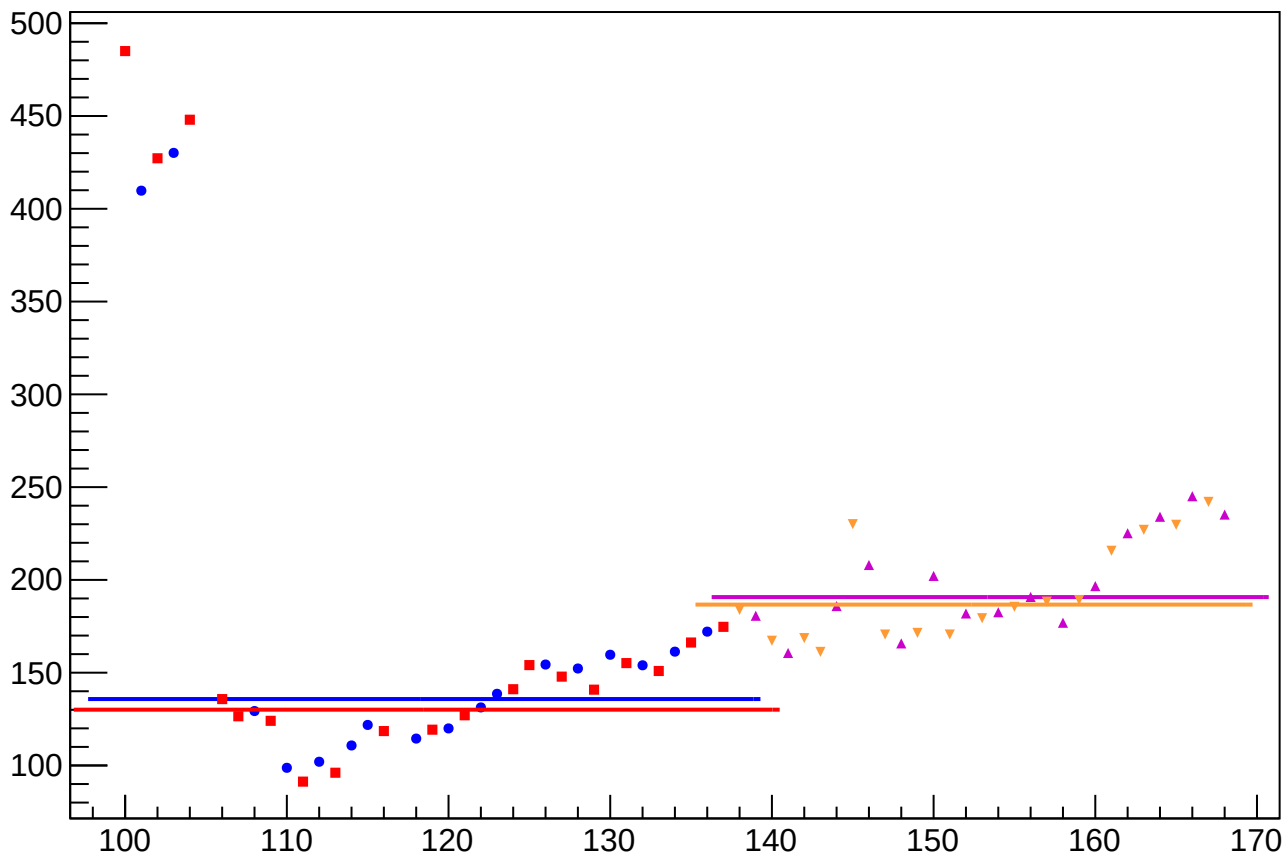
Left In: 134284.679 $\pm$ 0.057

χ^2 /NDF: 159273303.2/14

All: 133177.356 $\pm$ 0.028

χ^2 /NDF: 146666608.0/14

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 186.697 $\pm$ 0.039 χ^2/NDF :359472.4/15

Right Out: 130.070 $\pm$ 0.037 χ^2/NDF : 1503997.6/18

Left In: 190.743 $\pm$ 0.040 χ^2/NDF :324422.7/14

Left: 188.661 $\pm$ 0.028 χ^2/NDF : 689164.0/30

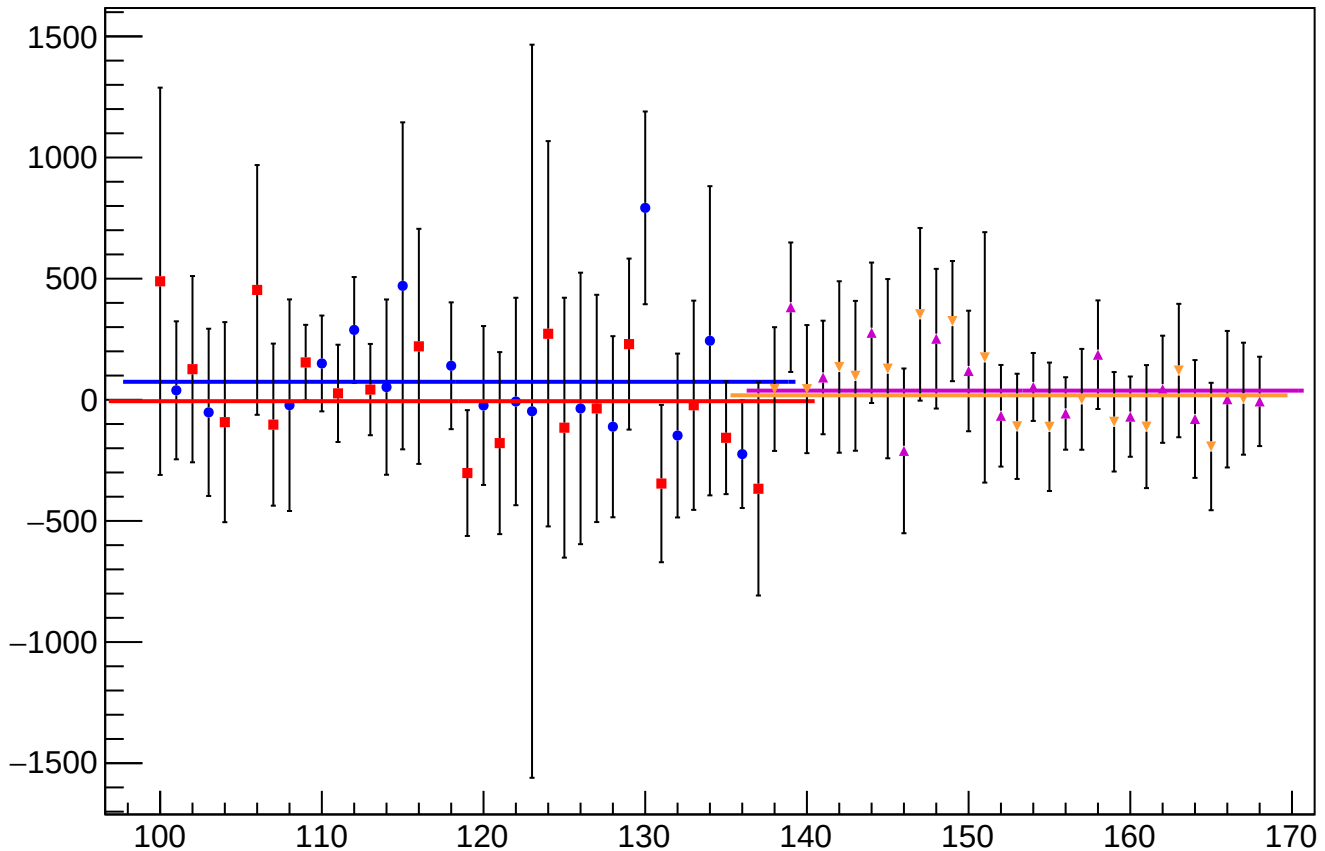
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 163.267 $\pm$ 0.028 χ^2/NDF :2711147.6/31

Out: 157.126 $\pm$ 0.027 χ^2/NDF :2973970.8/34

All: 160.038 $\pm$ 0.019 χ^2/NDF : 5709938.7/66

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2/NDF : 7.7/16

Left Out: 18.603 $\pm$ 66.318 χ^2/NDF : 4.7/15

Right Out: -5.739 $\pm$ 70.069 χ^2/NDF : 7.1/18

Left In: 37.849 $\pm$ 54.638 χ^2/NDF : 5.4/14

Left: 30.067 $\pm$ 42.169 χ^2/NDF : 10.2/30

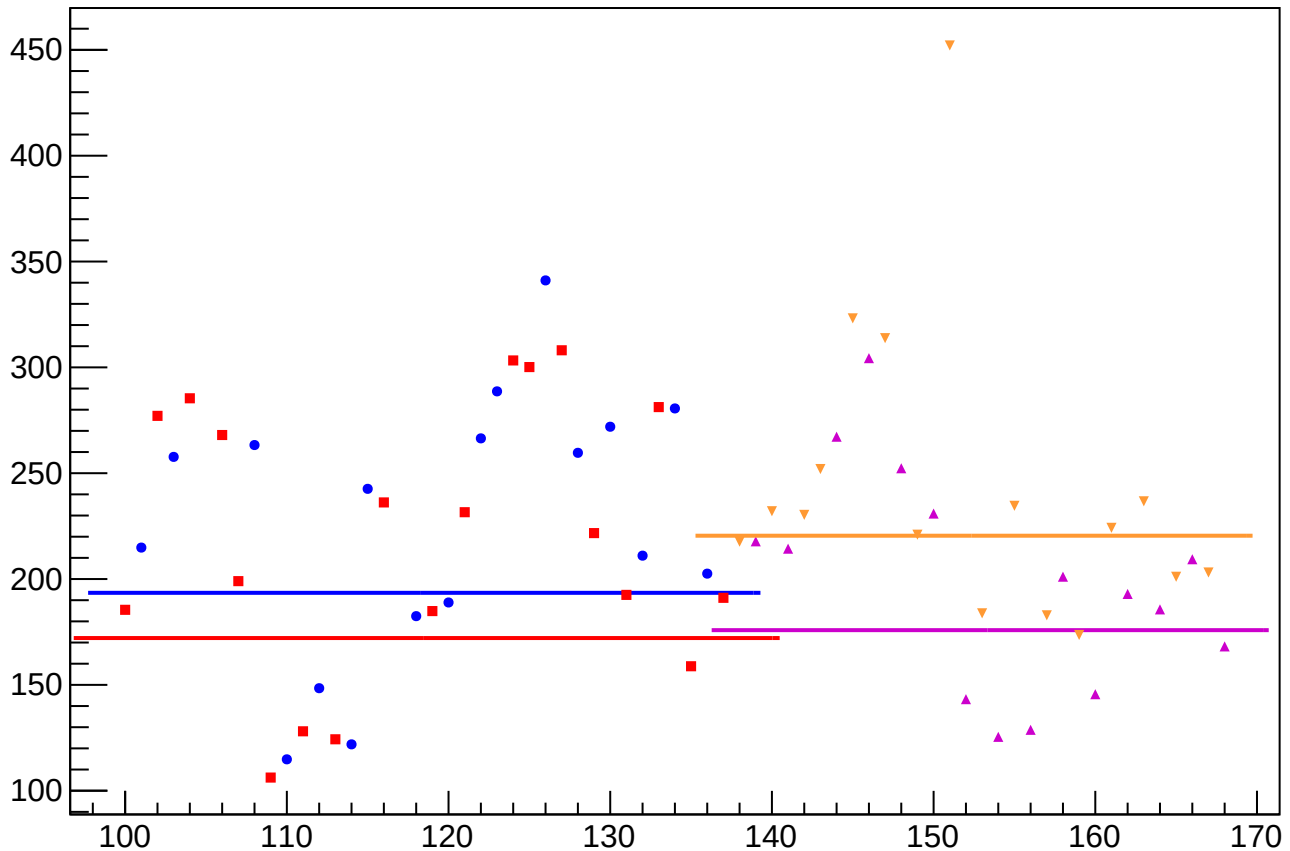
Right: 29.490 $\pm$ 52.426 χ^2/NDF : 15.4/35

In: 49.637 $\pm$ 44.941 χ^2/NDF : 13.2/31

Out: 7.101 $\pm$ 48.165 χ^2/NDF : 11.9/34

All: 29.841 $\pm$ 32.859 χ^2/NDF : 25.5/66

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 220.470+/-0.047 χ^2/NDF : 981216.1/15

Right Out: 172.122+/-0.050 χ^2/NDF : 1579840.2/18

Left In: 175.853+/-0.039 χ^2/NDF : 1470614.0/14

Left: 193.893+/-0.030 χ^2/NDF : 2991076.3/30

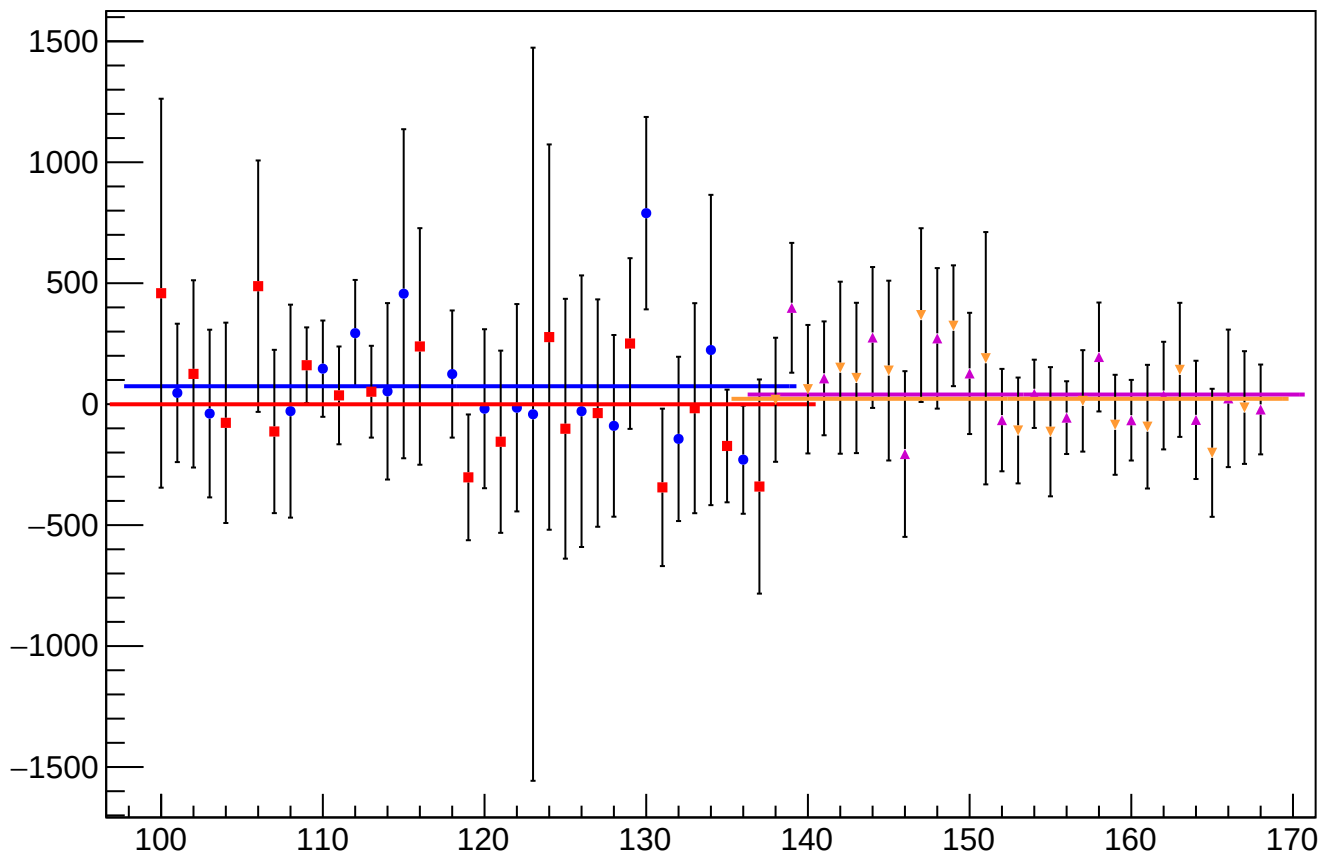
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 181.557+/-0.032 χ^2/NDF : 2555204.8/31

Out: 197.625+/-0.034 χ^2/NDF : 3063333.2/34

All: 189.035+/-0.023 χ^2/NDF : 5737526.7/66

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 22.087 $\pm$ 66.750 χ^2 /NDF:4.8/15

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 39.790 $\pm$ 54.978 χ^2 /NDF:5.6/14

Left: 32.635 $\pm$ 42.437 χ^2 /NDF: 10.5/30

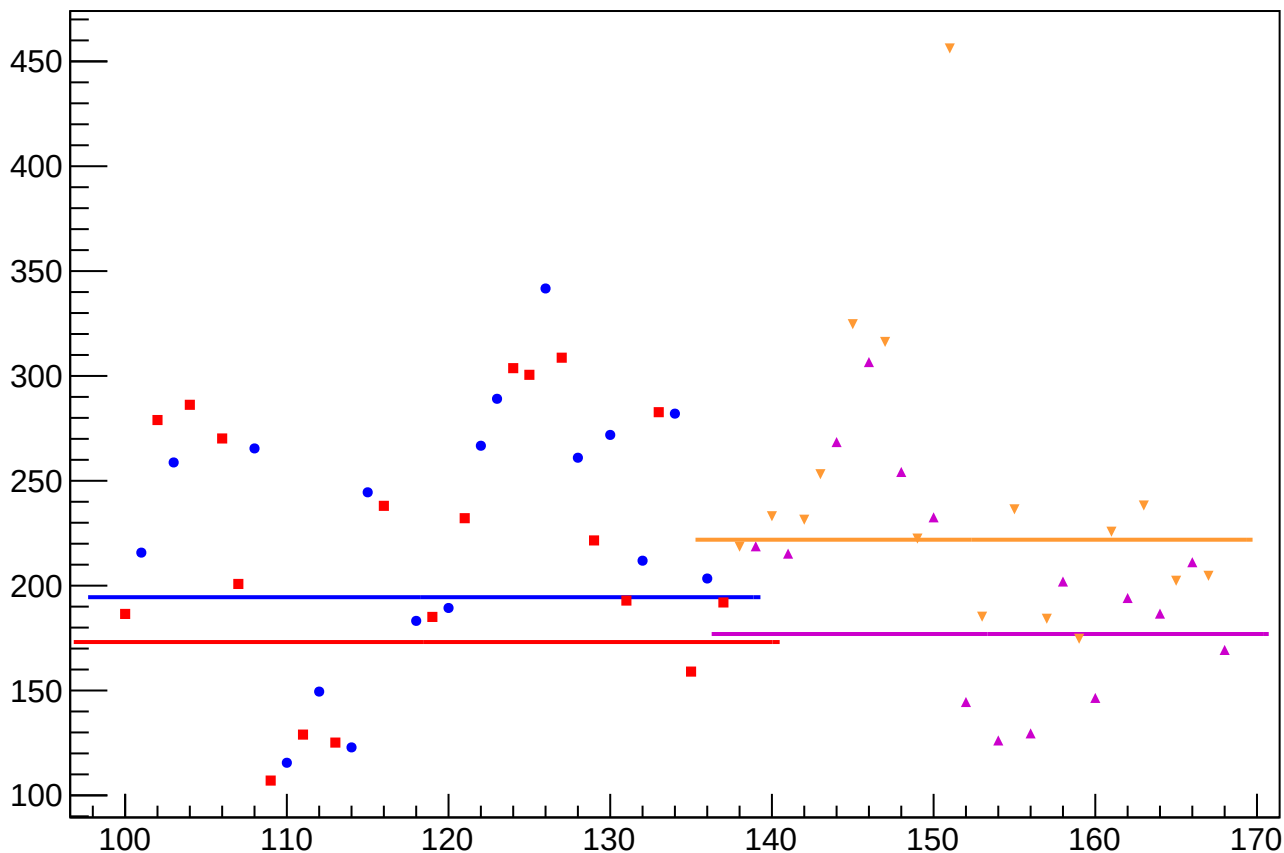
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 50.907 $\pm$ 45.201 χ^2 /NDF:13.3/31

Out: 11.399 $\pm$ 48.450 χ^2 /NDF:12.2/34

All: 32.522 $\pm$ 33.051 χ^2 /NDF: 25.9/66

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2 /NDF: 1008514.7/16

Left Out: 221.905 $\pm$ 0.047 χ^2 /NDF:980356.4/15

Right Out: 173.111 $\pm$ 0.050 χ^2 /NDF: 1567374.3/18

Left In: 176.944 $\pm$ 0.039 χ^2 /NDF:1469180.2/14

Left: 195.117 $\pm$ 0.030 χ^2 /NDF: 2990170.3/30

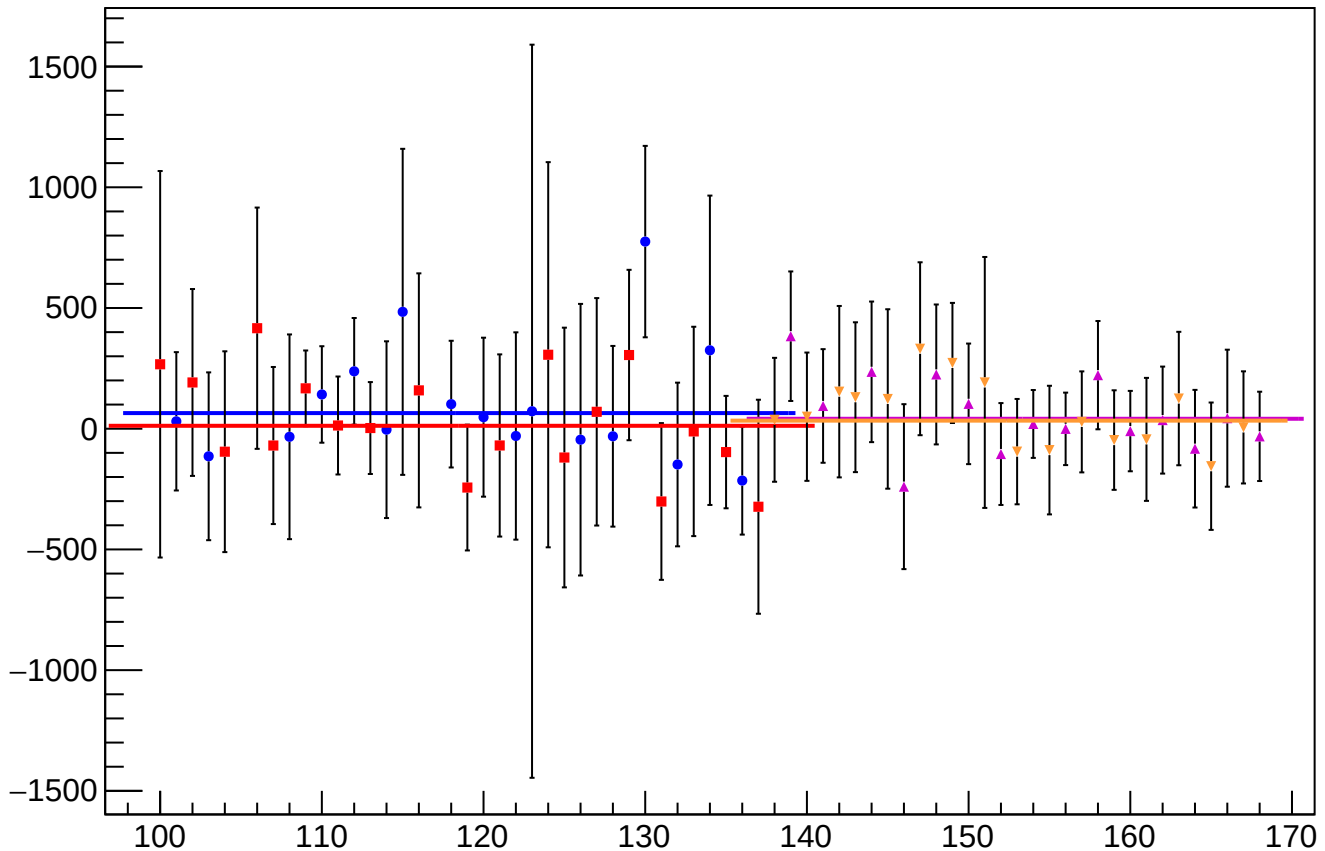
Right: 182.529 $\pm$ 0.037 χ^2 /NDF: 2657073.5/35

In: 182.632 $\pm$ 0.032 χ^2 /NDF:2543753.6/31

Out: 198.818 $\pm$ 0.034 χ^2 /NDF:3053378.5/34

All: 190.164 $\pm$ 0.023 χ^2 /NDF: 5716478.6/66

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 $\pm$ 79.399 χ^2/NDF : 7.0/16

Left Out: 33.487 $\pm$ 66.597 χ^2/NDF : 3.4/15

Right Out: 12.094 $\pm$ 70.361 χ^2/NDF : 5.8/18

Left In: 41.194 $\pm$ 54.836 χ^2/NDF : 5.0/14

Left: 38.080 $\pm$ 42.332 χ^2/NDF : 8.4/30

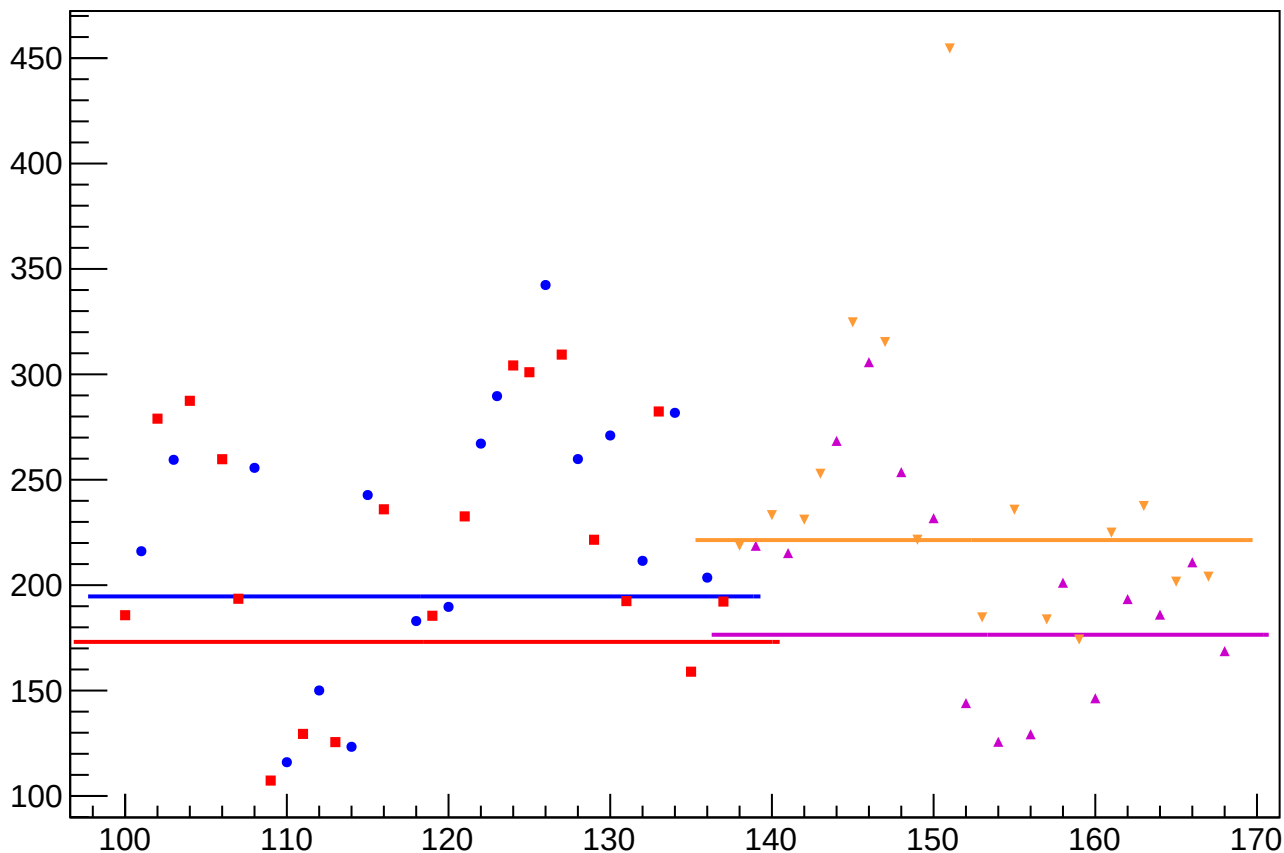
Right: 35.248 $\pm$ 52.659 χ^2/NDF : 13.1/35

In: 48.796 $\pm$ 45.121 χ^2/NDF : 12.1/31

Out: 23.378 $\pm$ 48.367 χ^2/NDF : 9.3/34

All: 36.969 $\pm$ 32.993 χ^2/NDF : 21.5/66

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 221.384+/-0.047 χ^2/NDF : 982384.7/15

Right Out: 173.089+/-0.050 χ^2/NDF : 1544540.9/18

Left In: 176.476+/-0.039 χ^2/NDF : 1472874.7/14

Left: 194.621+/-0.030 χ^2/NDF : 2997243.9/30

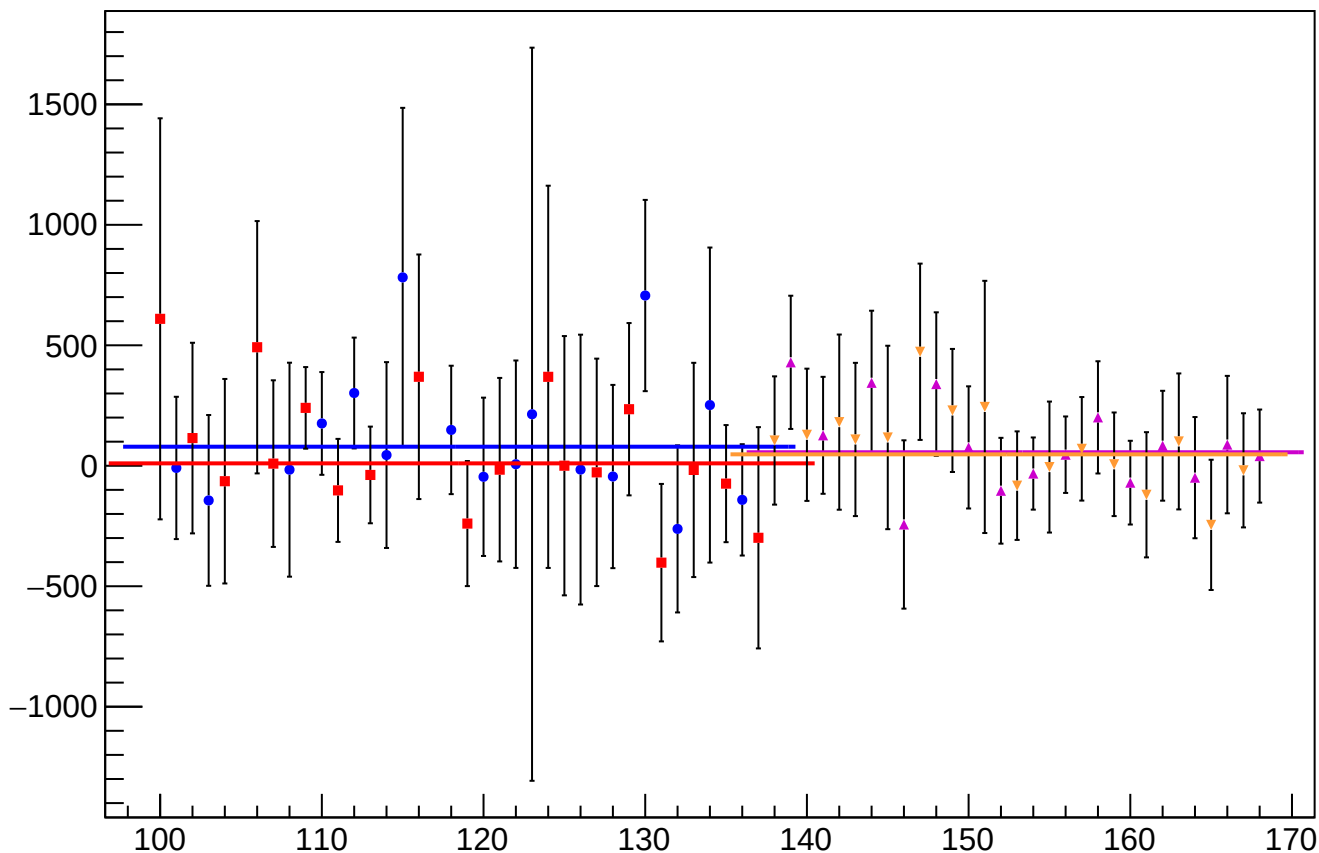
Right: 182.574+/-0.037 χ^2/NDF : 2613964.4/35

In: 182.346+/-0.032 χ^2/NDF : 2530634.1/31

Out: 198.563+/-0.034 χ^2/NDF : 3023945.7/34

All: 189.892+/-0.023 χ^2/NDF : 5674798.5/66

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 47.480+/-68.420 χ^2/NDF : 4.5/15

Right Out: 9.982+/-73.310 χ^2/NDF : 7.9/18

Left In: 56.084+/-57.072 χ^2/NDF : 6.5/14

Left: 52.554+/-43.827 χ^2/NDF : 11.0/30

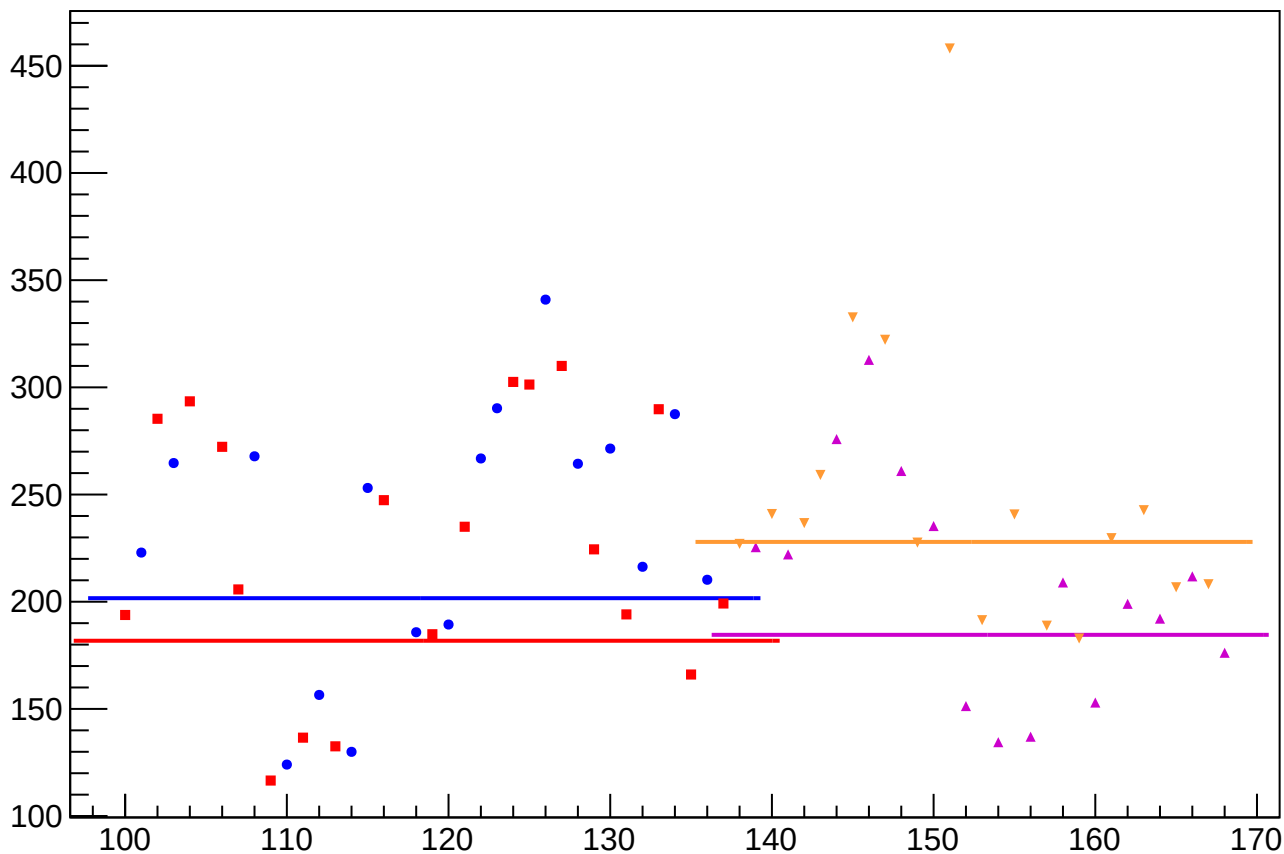
Right: 40.751+/-54.616 χ^2/NDF : 15.8/35

In: 63.620+/-46.820 χ^2/NDF : 14.1/31

Out: 30.023+/-50.020 χ^2/NDF : 12.5/34

All: 47.930+/-34.182 χ^2/NDF : 26.8/66

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2/NDF : 883179.7/16

Left Out: 227.905 $\pm$ 0.048 χ^2/NDF : 938803.6/15

Right Out: 181.797 $\pm$ 0.052 χ^2/NDF : 1377449.9/18

Left In: 184.557 $\pm$ 0.040 χ^2/NDF : 1328277.4/14

Left: 202.343 $\pm$ 0.031 χ^2/NDF : 2740478.4/30

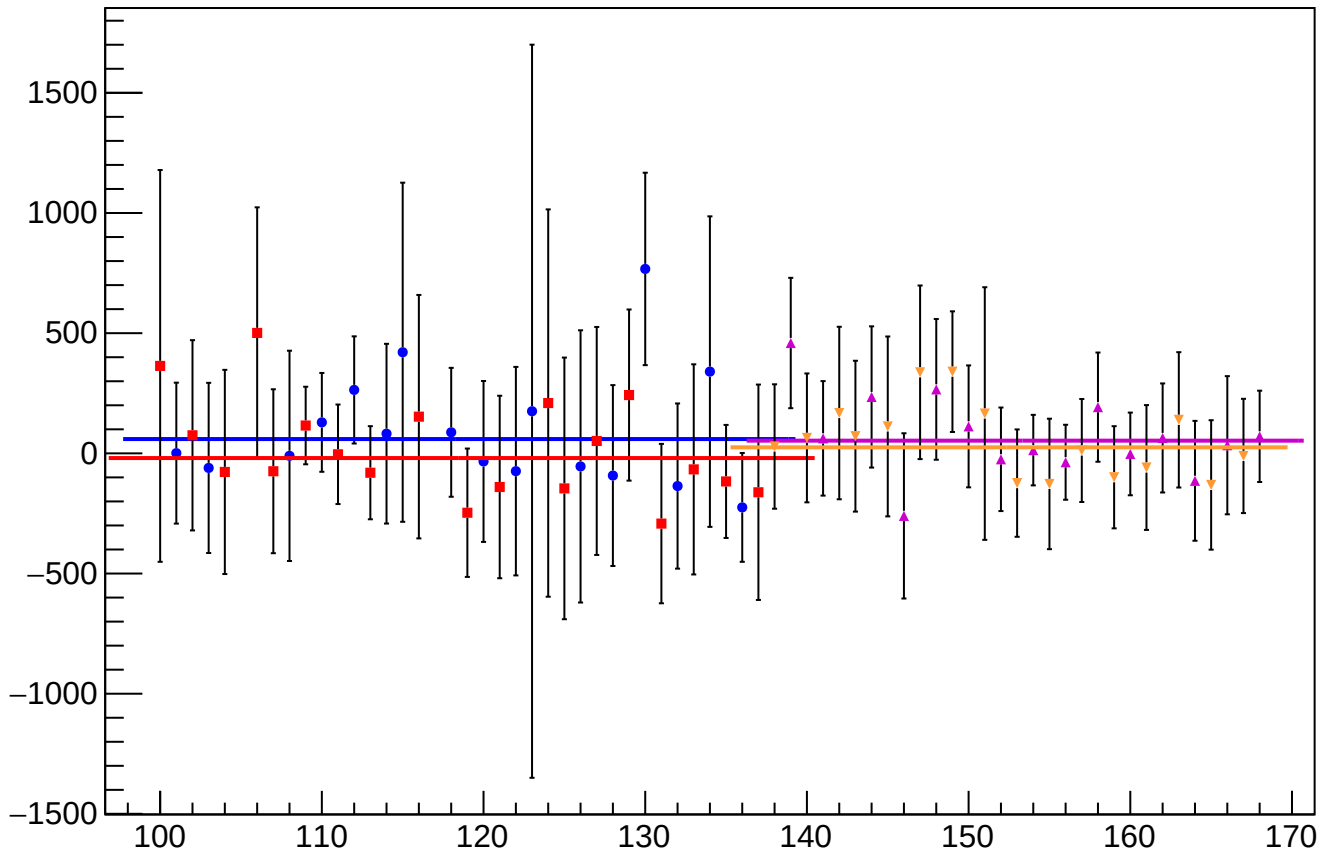
Right: 190.633 $\pm$ 0.039 χ^2/NDF : 2325921.8/35

In: 190.148 $\pm$ 0.033 χ^2/NDF : 2270149.1/31

Out: 206.440 $\pm$ 0.035 χ^2/NDF : 2739085.0/34

All: 197.756 $\pm$ 0.024 χ^2/NDF : 5122325.9/66

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 25.110 $\pm$ 67.798 χ^2 /NDF:4.4/15

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 52.853 $\pm$ 56.243 χ^2 /NDF:5.5/14

Left: 41.544 $\pm$ 43.287 χ^2 /NDF: 10.0/30

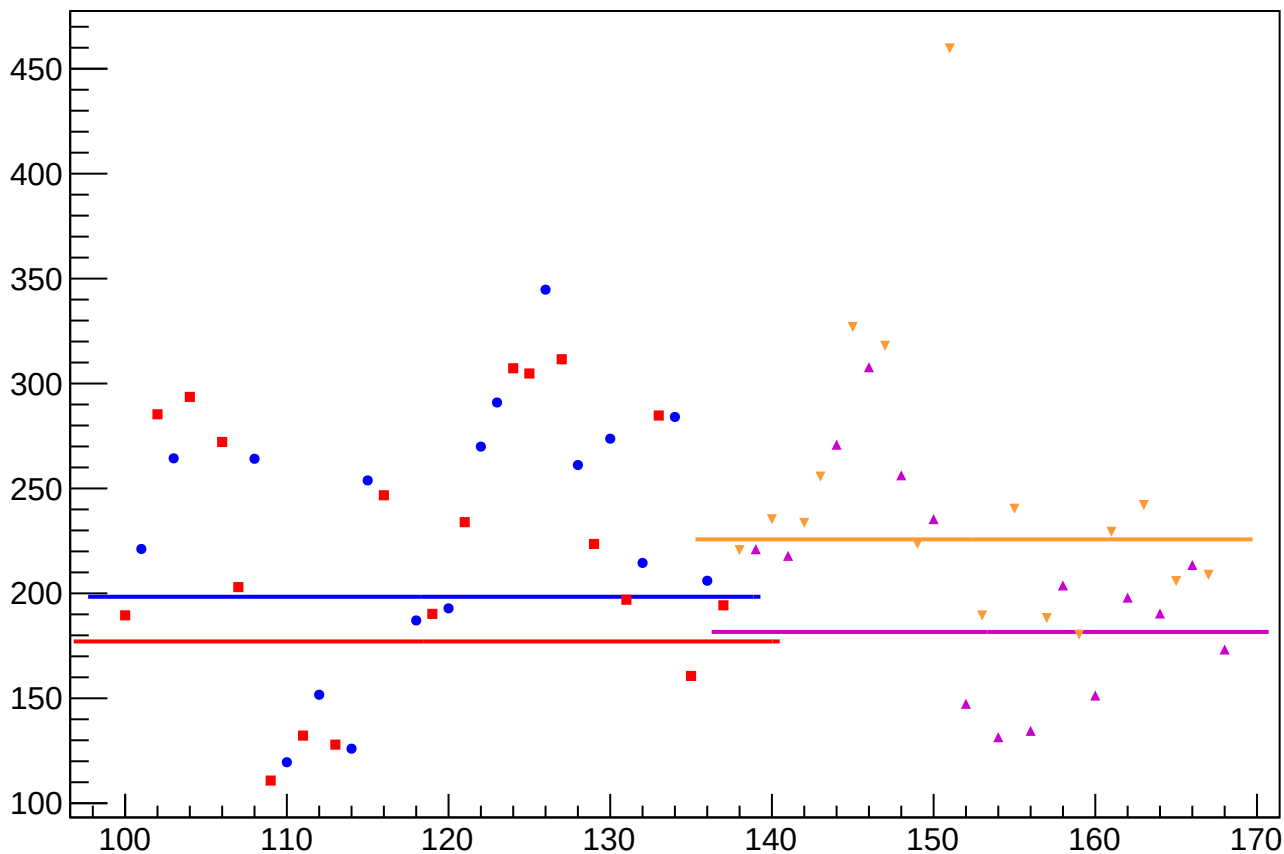
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 55.021 $\pm$ 46.163 χ^2 /NDF:12.5/31

Out: 4.084 $\pm$ 49.316 χ^2 /NDF:9.3/34

All: 31.233 $\pm$ 33.702 χ^2 /NDF: 22.4/66

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 225.734+/-0.048 χ^2/NDF : 934967.9/15

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 181.619+/-0.040 χ^2/NDF : 1351734.1/14

Left: 199.602+/-0.031 χ^2/NDF : 2788274.5/30

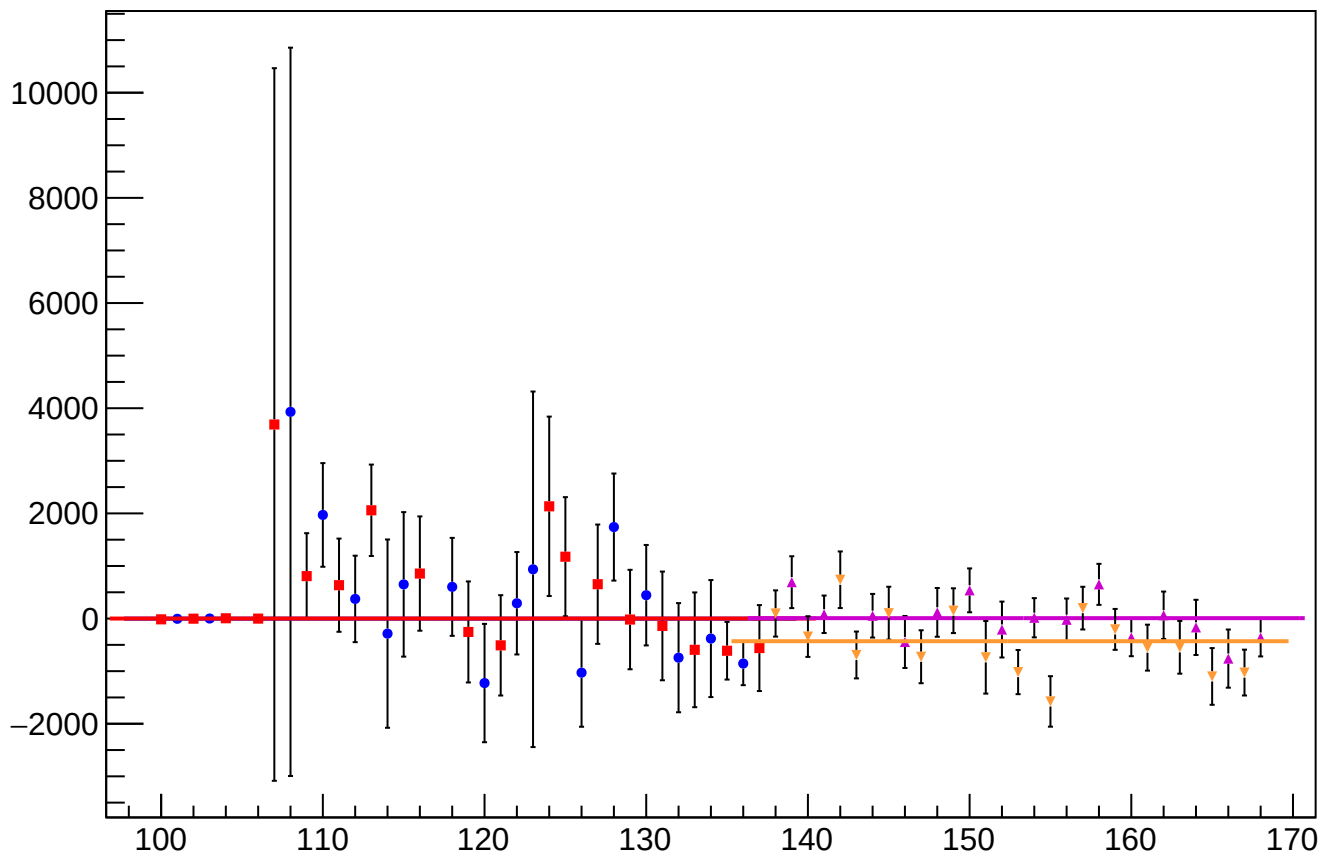
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 187.088+/-0.033 χ^2/NDF : 2373355.6/31

Out: 202.830+/-0.035 χ^2/NDF : 2944427.0/34

All: 194.440+/-0.024 χ^2/NDF : 5426395.6/66

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -430.610 ± 114.346 χ^2/NDF : 24.0/15

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 7.843 ± 109.588 χ^2/NDF : 11.6/14

Left: -202.071 ± 79.119 χ^2/NDF : 43.2/30

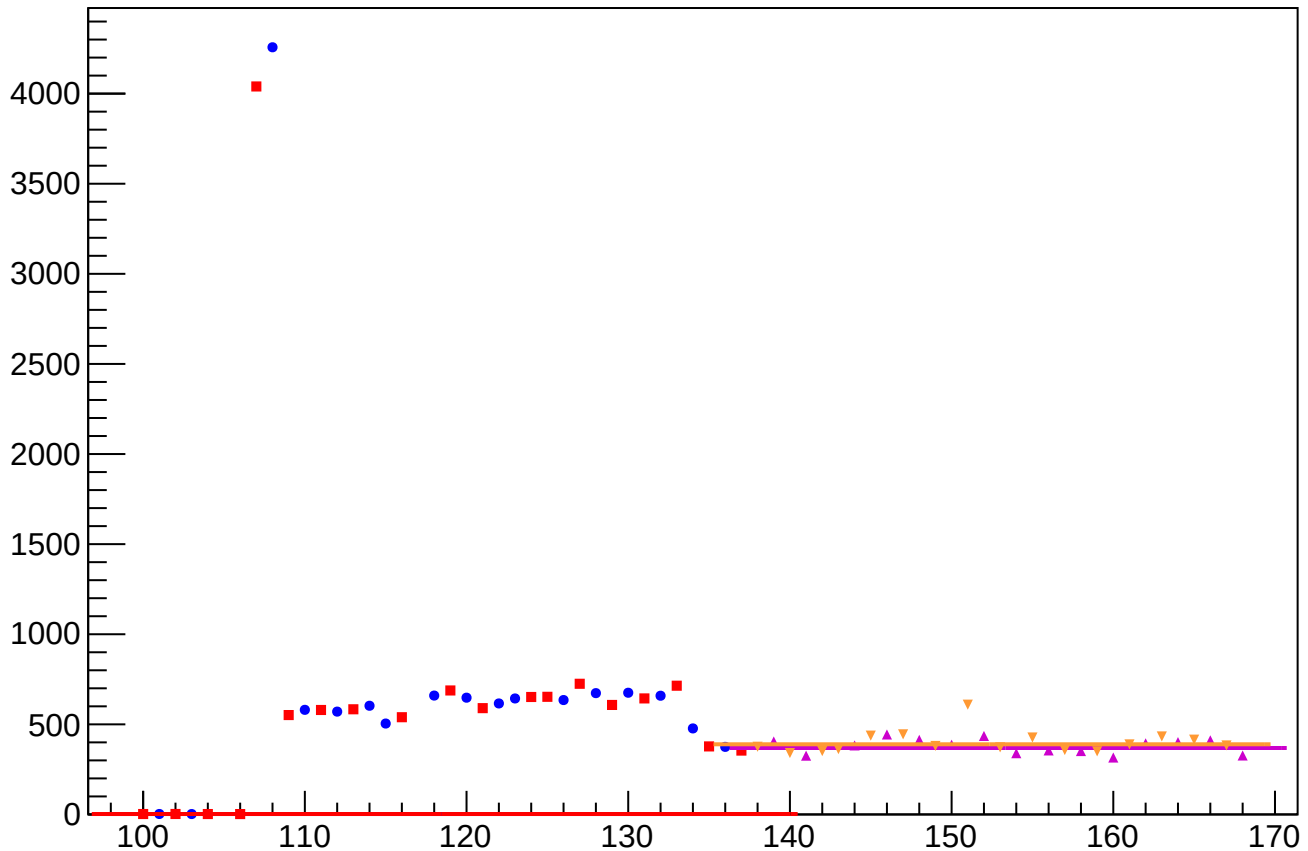
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.525 ± 2.251 χ^2/NDF : 28.5/31

Out: 0.580 ± 2.111 χ^2/NDF : 57.5/34

All: -0.405 ± 1.540 χ^2/NDF : 86.5/66

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457 ± 0.002 χ^2/NDF : 10847802.4/16

Left Out: 389.364 ± 0.081 χ^2/NDF : 365126.1/15

Right Out: 2.437 ± 0.001 χ^2/NDF : 11147393.9/18

Left In: 368.784 ± 0.077 χ^2/NDF : 257878.6/14

Left: 378.637 ± 0.056 χ^2/NDF : 656772.5/30

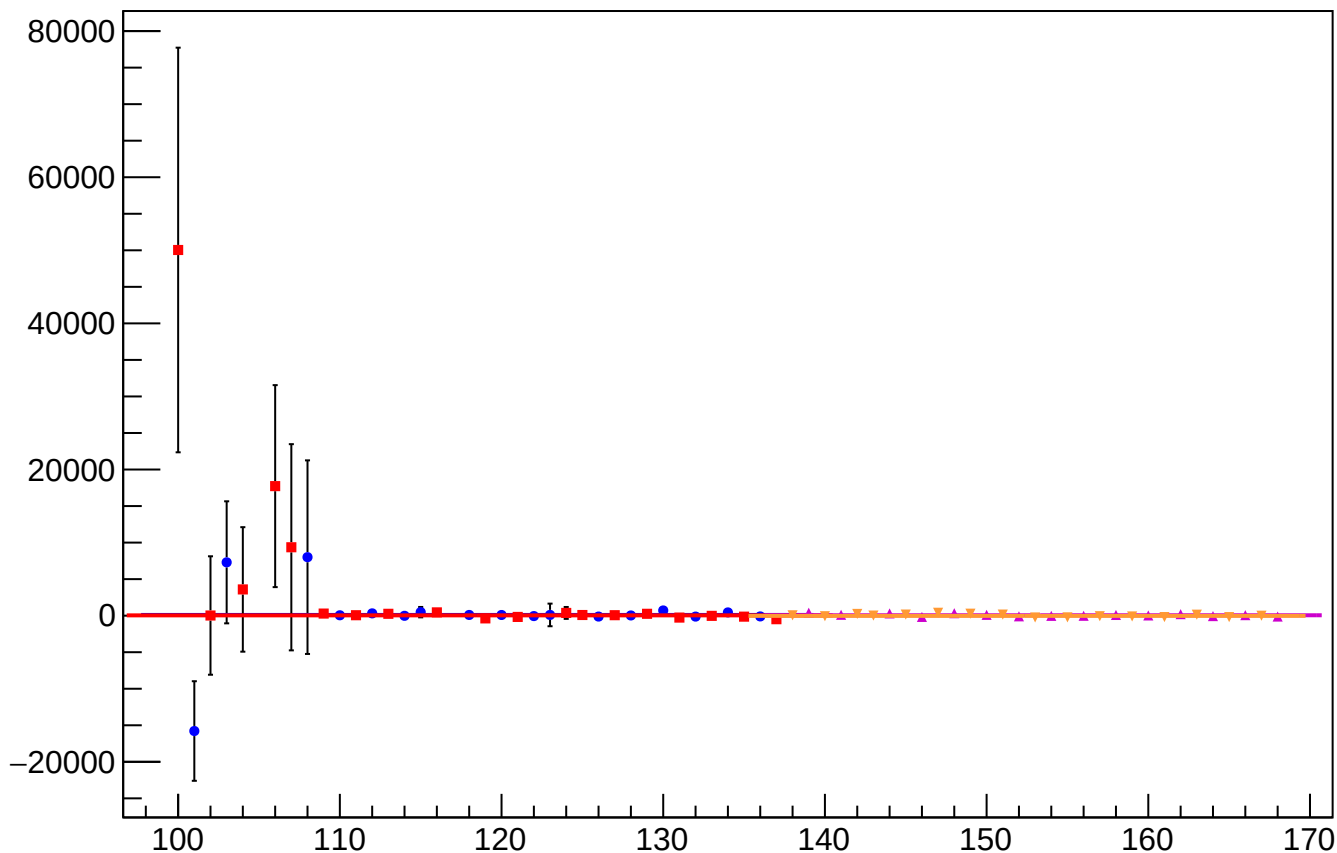
Right: 2.446 ± 0.001 χ^2/NDF : 21995279.7/35

In: 2.611 ± 0.002 χ^2/NDF : 33444309.6/31

Out: 2.569 ± 0.001 χ^2/NDF : 34405106.1/34

All: 2.589 ± 0.001 χ^2/NDF : 67849797.3/66

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -26.041+/-70.413 χ^2/NDF : 6.0/15

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 55.803+/-59.746 χ^2/NDF : 6.0/14

Left: 21.544+/-45.556 χ^2/NDF : 12.7/30

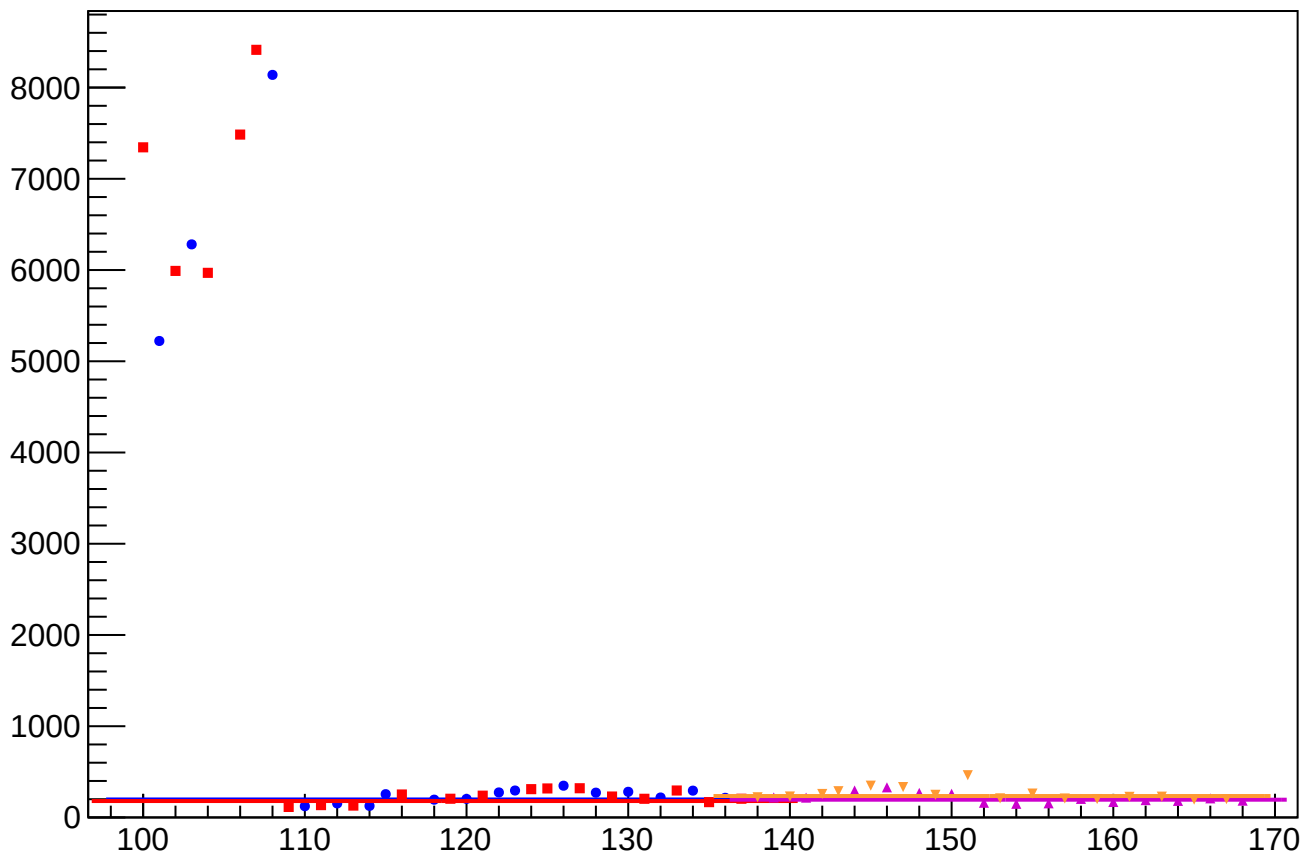
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 68.735+/-49.920 χ^2/NDF : 18.0/31

Out: 1.969+/-54.093 χ^2/NDF : 20.2/34

All: 38.026+/-36.685 χ^2/NDF : 39.0/66

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 234.857+/-0.050 χ^2/NDF : 934582.7/15

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 194.583+/-0.042 χ^2/NDF : 1068762.2/14

Left: 211.441+/-0.032 χ^2/NDF : 2383768.7/30

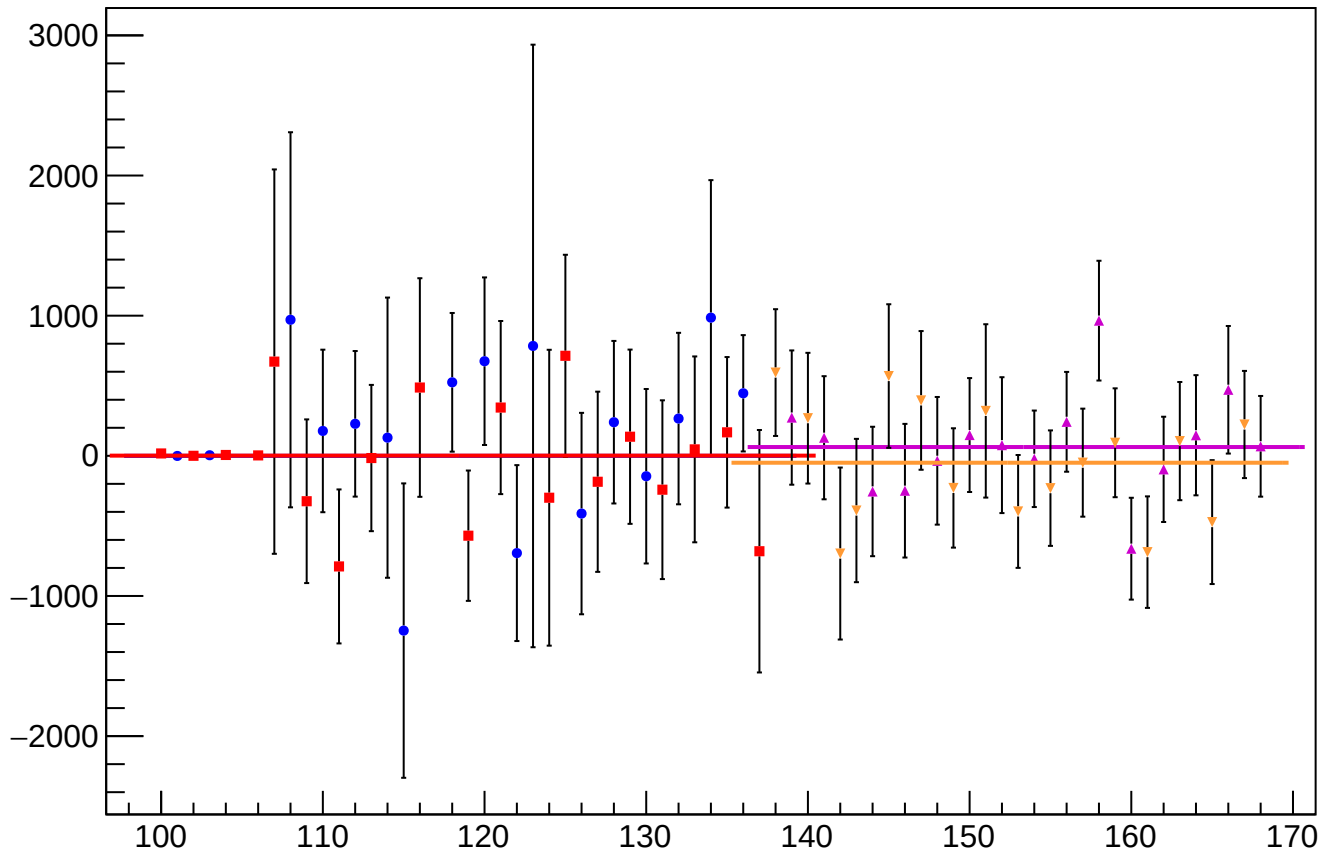
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 195.338+/-0.035 χ^2/NDF : 4763435.7/31

Out: 212.354+/-0.038 χ^2/NDF : 5754183.8/34

All: 203.165+/-0.026 χ^2/NDF : 10624499.6/66

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 $\pm$ 1.737 χ^2/NDF : 9.7/16

Left Out: -49.294 $\pm$ 110.899 χ^2/NDF :12.1/15

Right Out: 1.323 $\pm$ 1.623 χ^2/NDF : 9.6/18

Left In: 62.697 $\pm$ 106.457 χ^2/NDF :11.0/14

Left: 8.989 $\pm$ 76.799 χ^2/NDF : 23.6/30

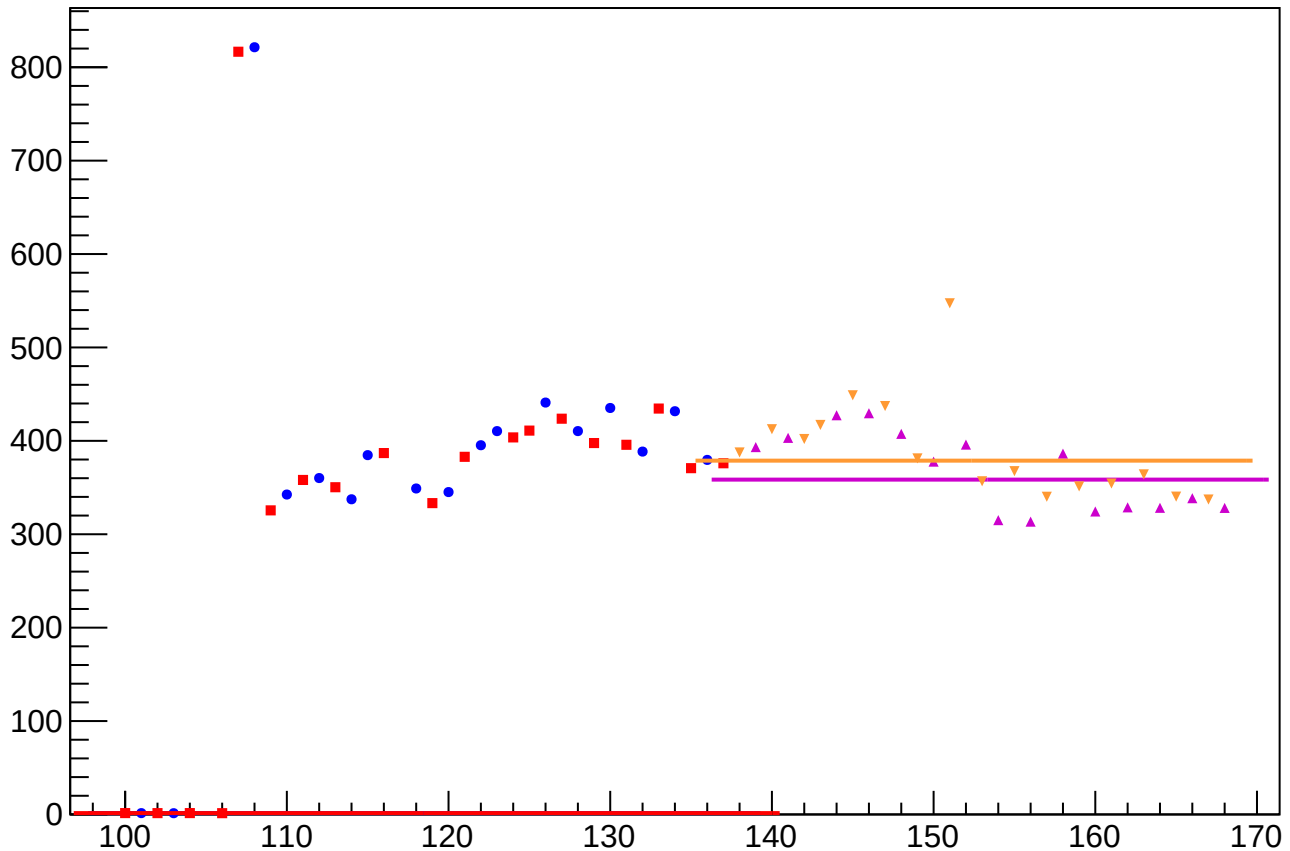
Right: 0.642 $\pm$ 1.186 χ^2/NDF : 19.7/35

In: -0.121 $\pm$ 1.736 χ^2/NDF :21.1/31

Out: 1.313 $\pm$ 1.622 χ^2/NDF :21.9/34

All: 0.644 $\pm$ 1.185 χ^2/NDF : 43.3/66

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 378.804+/-0.078 χ^2/NDF : 325508.4/15

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 358.492+/-0.075 χ^2/NDF : 290097.3/14

Left: 368.233+/-0.054 χ^2/NDF : 650523.8/30

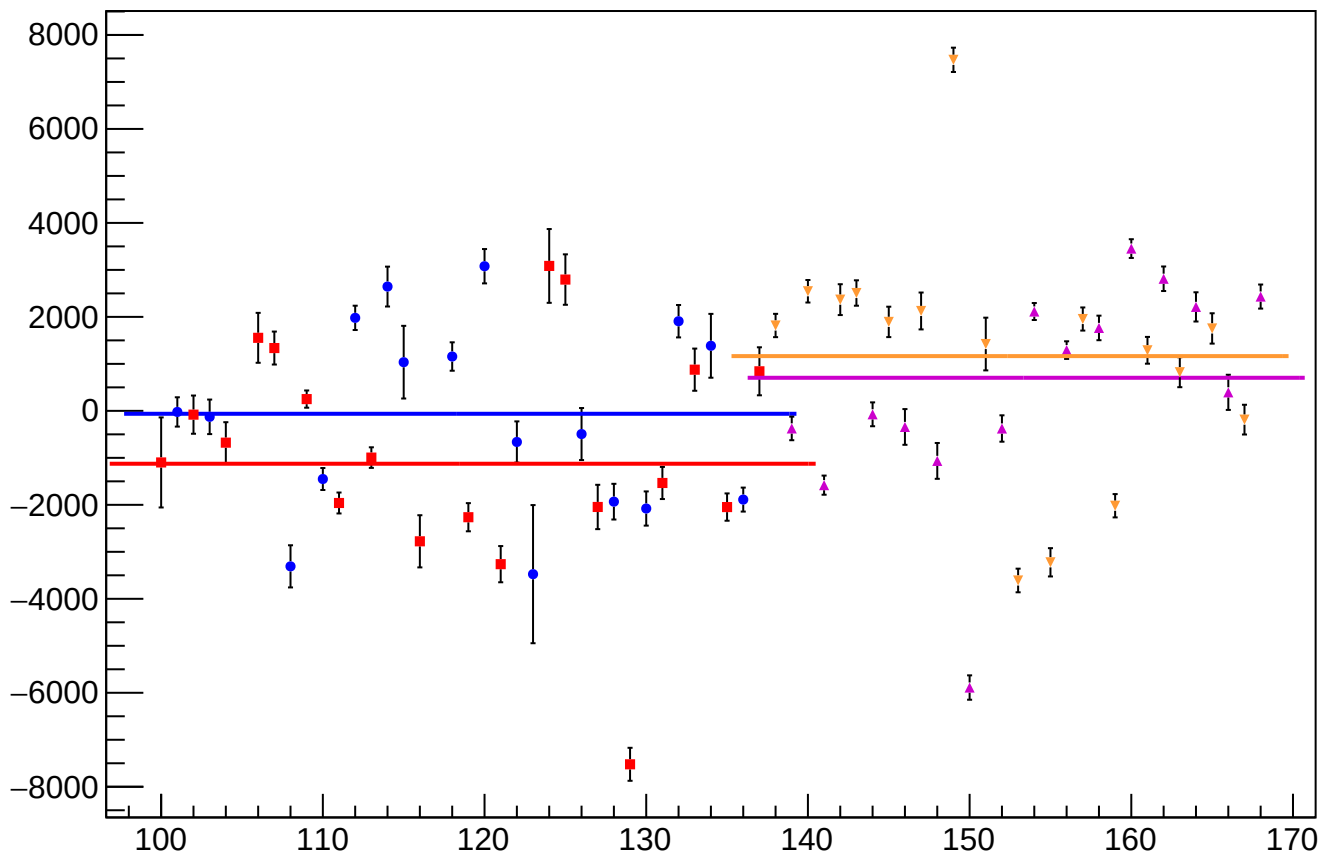
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.548+/-0.001 χ^2/NDF : 33738542.6/31

Out: 1.532+/-0.001 χ^2/NDF : 34357509.9/34

All: 1.539+/-0.001 χ^2/NDF : 68096143.1/66

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 1165.193 ± 72.149 $\chi^2/\text{NDF}: 1454.2/15$

Right Out: -1125.437 ± 78.370 $\chi^2/\text{NDF}: 671.2/18$

Left In: 703.969 ± 64.131 $\chi^2/\text{NDF}: 1255.6/14$

Left: 907.538 ± 47.933 $\chi^2/\text{NDF}: 2732.6/30$

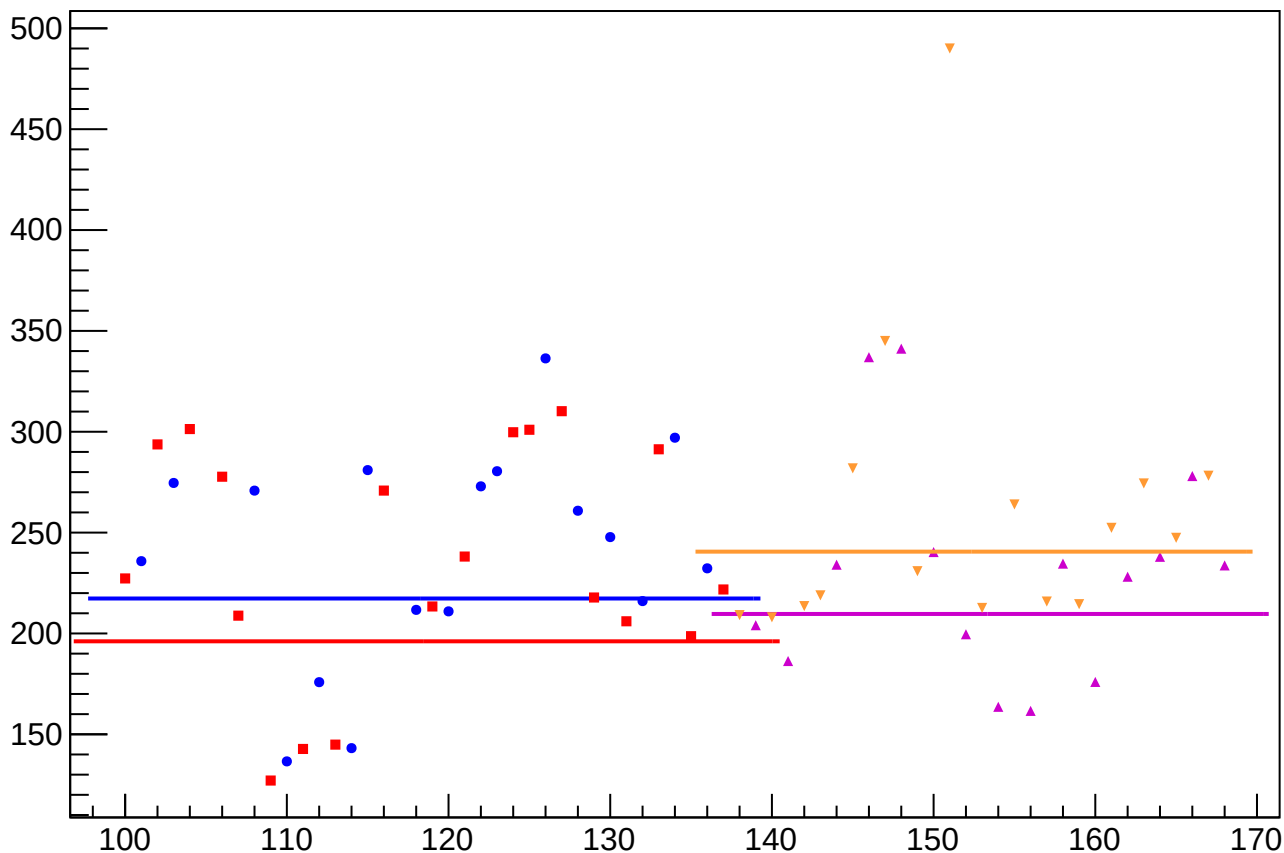
Right: -651.694 ± 58.355 $\chi^2/\text{NDF}: 1187.1/35$

In: 435.934 ± 51.710 $\chi^2/\text{NDF}: 1739.4/31$

Out: 114.383 ± 53.080 $\chi^2/\text{NDF}: 2587.8/34$

All: 279.362 ± 37.039 $\chi^2/\text{NDF}: 4346.1/66$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 240.562 $\pm$ 0.051 χ^2 /NDF:802029.0/15

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 209.665 $\pm$ 0.045 χ^2 /NDF:985962.7/14

Left: 223.302 $\pm$ 0.034 χ^2 /NDF: 1992893.0/30

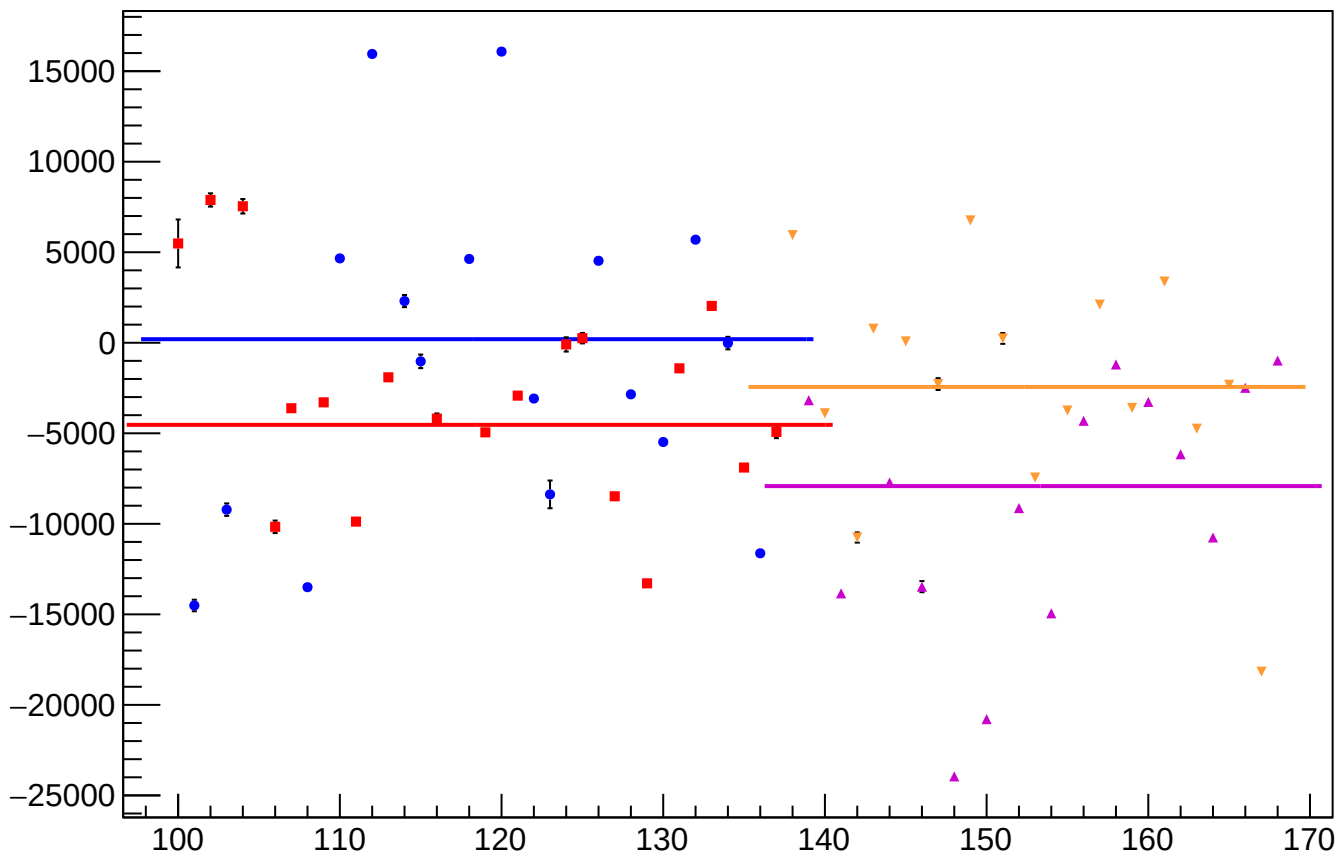
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 212.346 $\pm$ 0.037 χ^2 /NDF:1648681.4/31

Out: 220.168 $\pm$ 0.038 χ^2 /NDF:2341115.6/34

All: 216.155 $\pm$ 0.026 χ^2 /NDF: 4012077.8/66

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -2440.246+/-50.525 χ^2/NDF :13671.5/15

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -7917.275+/-51.177 χ^2/NDF :16462.4/14

Left: -5143.657+/-35.955 χ^2/NDF : 35934.2/30

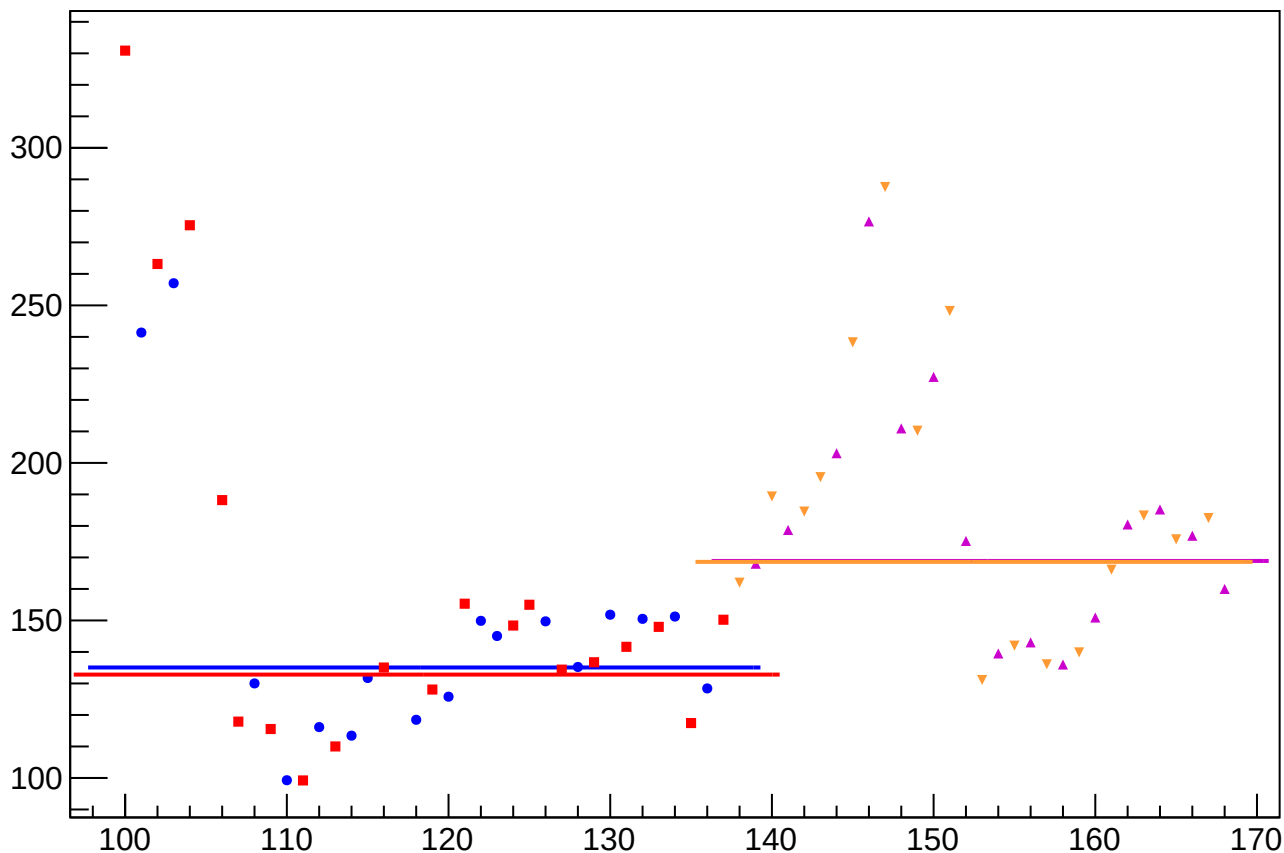
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4137.116+/-37.402 χ^2/NDF :58832.2/31

Out: -3447.859+/-36.392 χ^2/NDF :21975.3/34

All: -3783.052+/-26.083 χ^2/NDF : 80981.9/66

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 168.591 $\pm$ 0.036 χ^2 /NDF: 1012860.5/15

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 168.885 $\pm$ 0.036 χ^2 /NDF: 736712.3/14

Left: 168.736 $\pm$ 0.025 χ^2 /NDF: 1749606.3/30

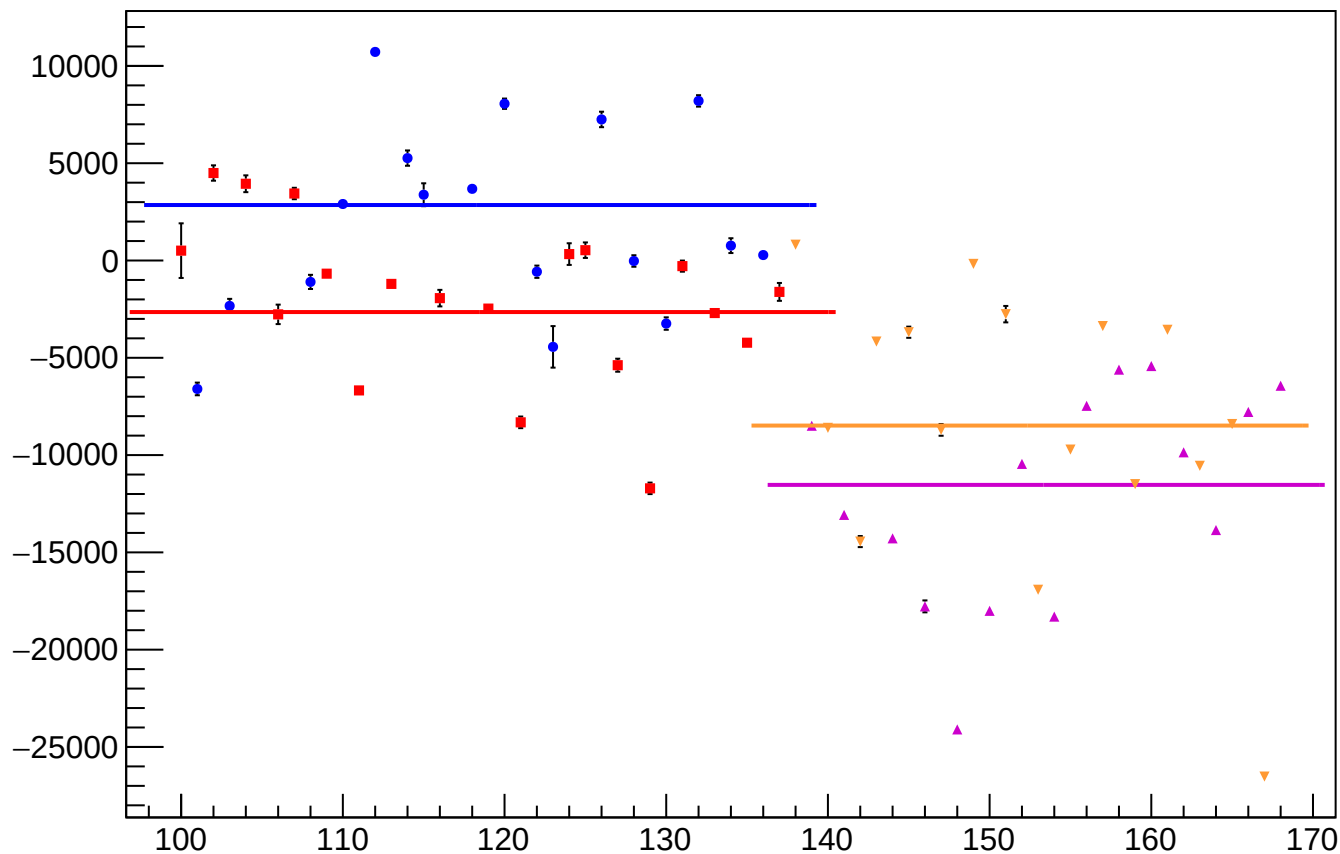
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.133 $\pm$ 0.026 χ^2 /NDF: 1802158.6/31

Out: 151.376 $\pm$ 0.026 χ^2 /NDF: 2326543.1/34

All: 152.230 $\pm$ 0.018 χ^2 /NDF: 4130968.3/66

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8482.959+/-57.447 χ^2/NDF :15098.2/15

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11532.072+/-51.711 χ^2/NDF :10481.7/14

Left: -10167.293+/-38.434 χ^2/NDF : 27136.1/30

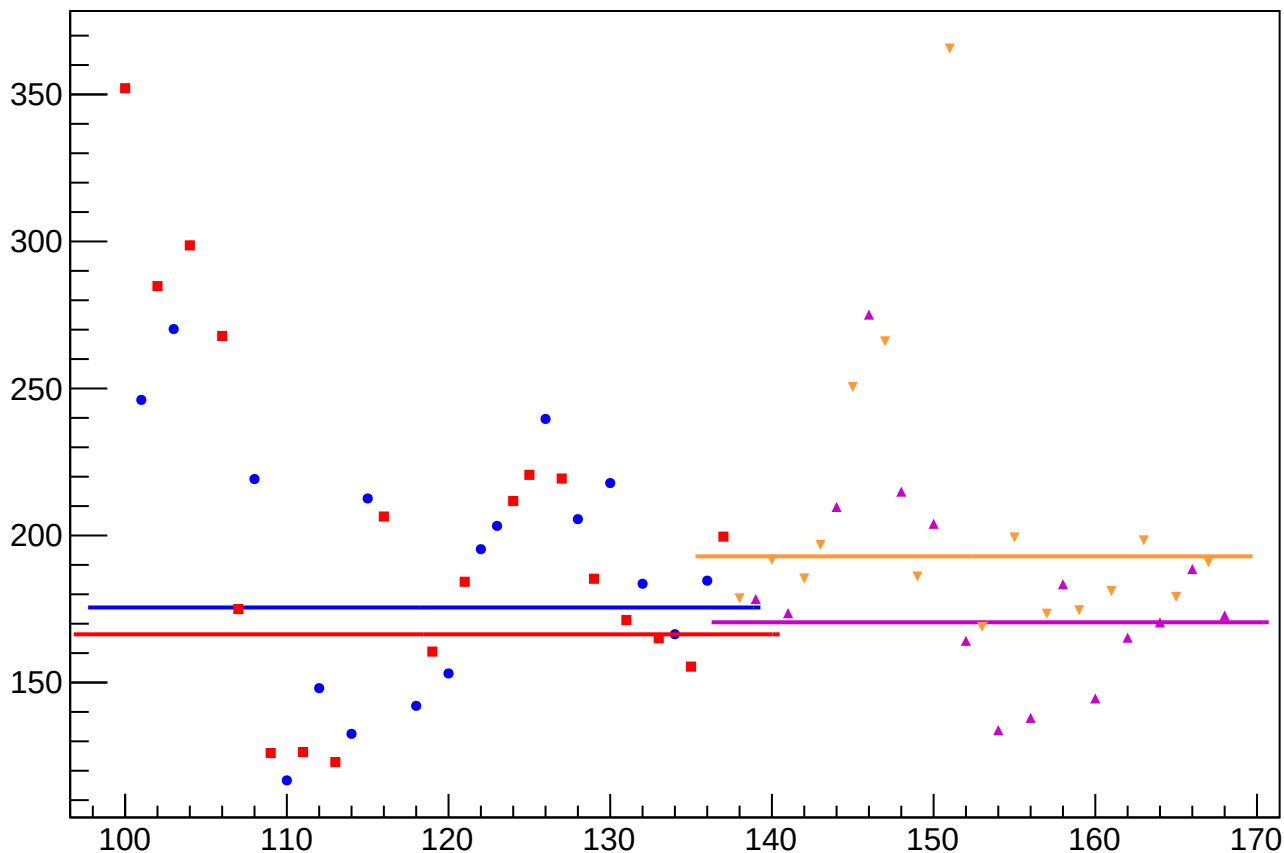
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6524.040+/-41.749 χ^2/NDF :41597.8/31

Out: -5956.617+/-43.255 χ^2/NDF :22739.8/34

All: -6250.378+/-30.039 χ^2/NDF : 64426.7/66

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.912+/-0.041 χ^2/NDF : 628067.8/15

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 170.488+/-0.037 χ^2/NDF : 686618.1/14

Left: 180.525+/-0.027 χ^2/NDF : 1483024.6/30

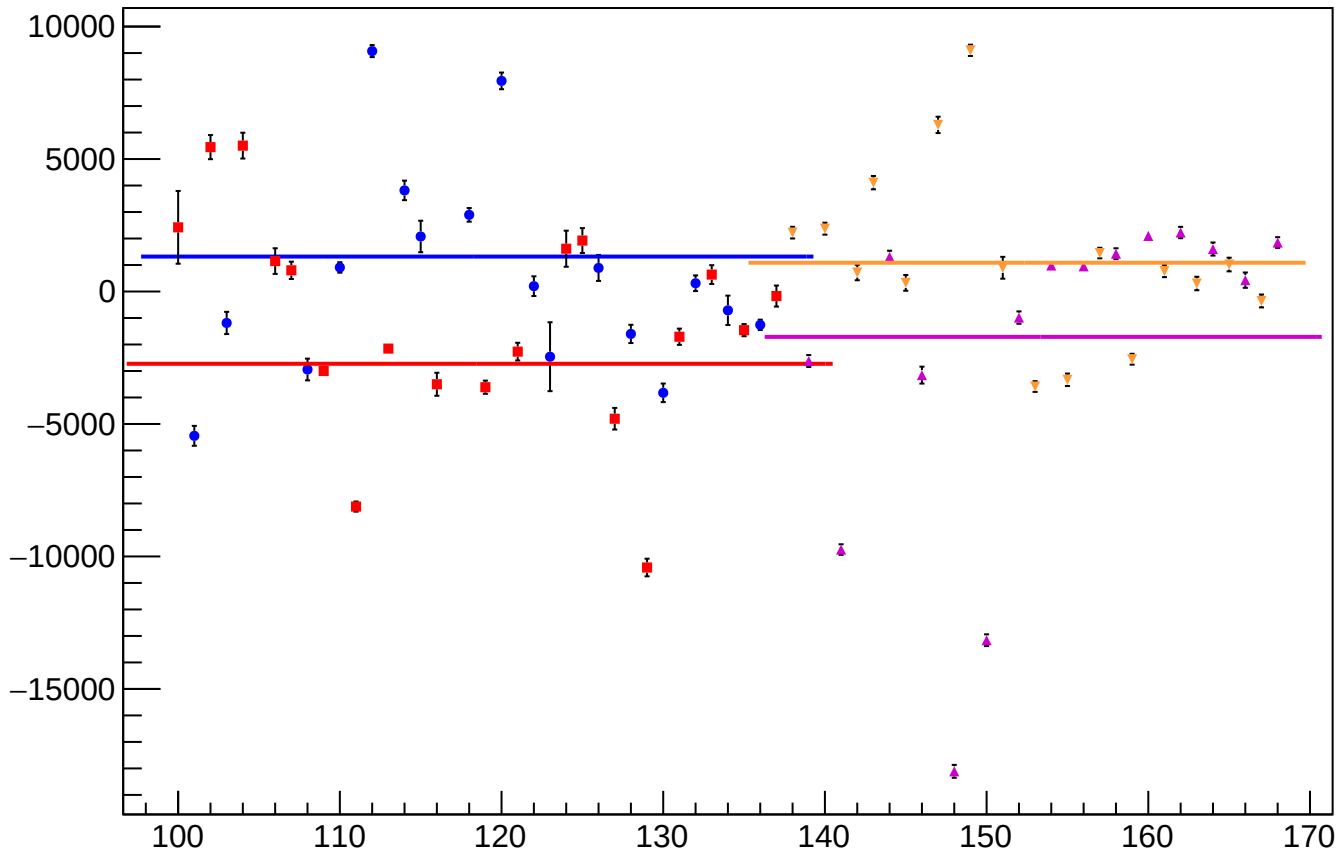
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.238+/-0.030 χ^2/NDF : 1382840.6/31

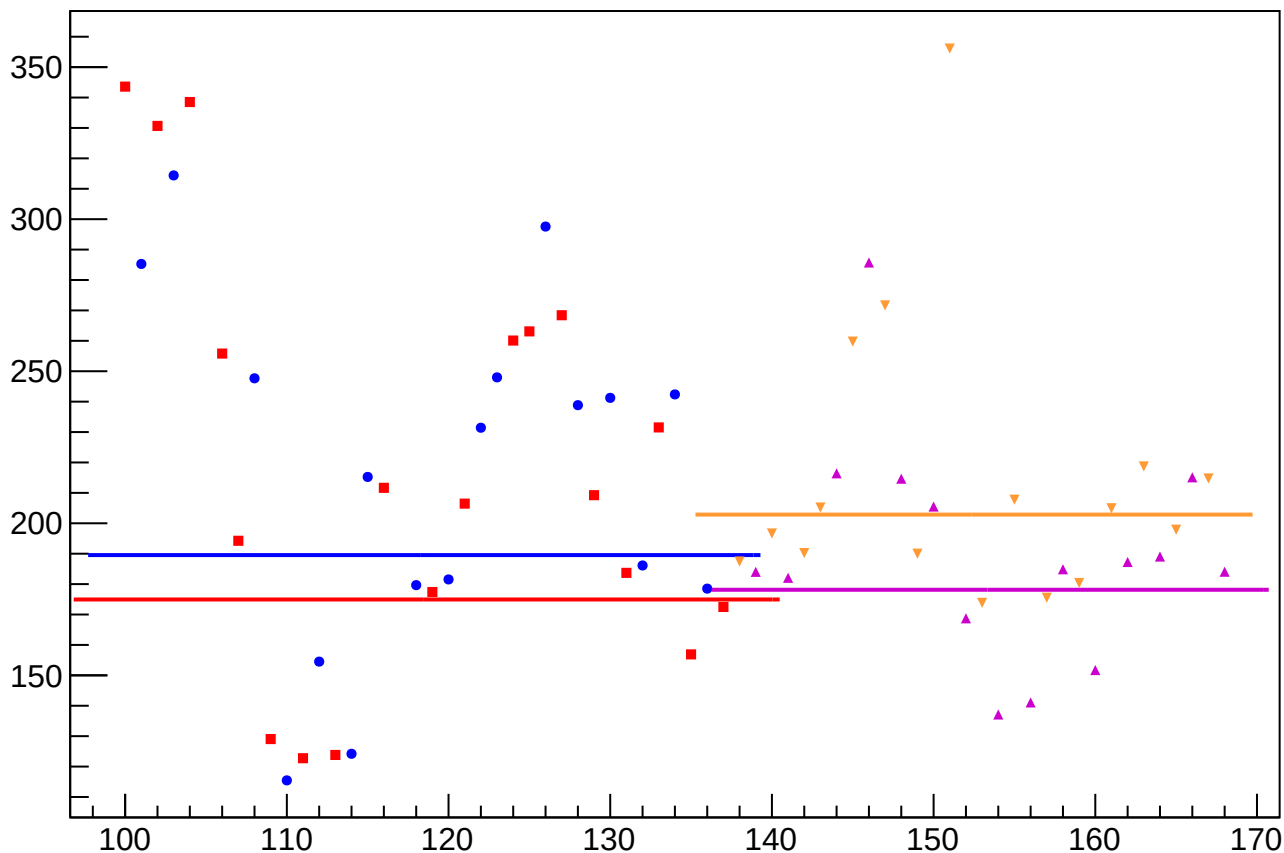
Out: 181.428+/-0.031 χ^2/NDF : 1742165.0/34

All: 176.670+/-0.021 χ^2/NDF : 3171743.3/66

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 202.860+/-0.043 χ^2/NDF : 587933.9/15

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 178.137+/-0.038 χ^2/NDF : 702448.8/14

Left: 189.144+/-0.028 χ^2/NDF : 1476463.1/30

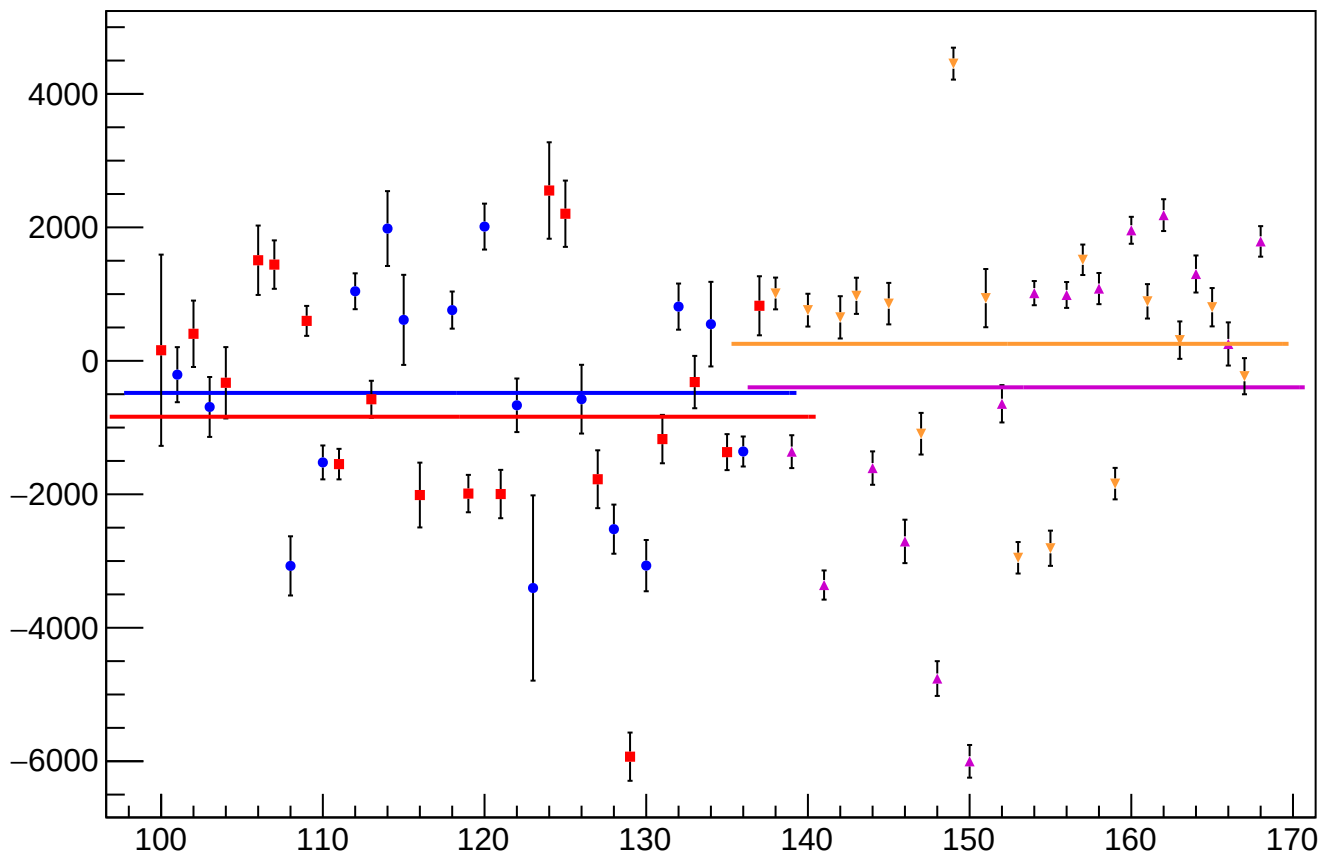
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 181.896+/-0.031 χ^2/NDF : 1712515.0/31

Out: 190.958+/-0.032 χ^2/NDF : 2067363.3/34

All: 186.282+/-0.022 χ^2/NDF : 3820415.0/66

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 254.970+/-66.806 χ^2/NDF : 797.2/15

Right Out: -837.442+/-82.243 χ^2/NDF : 435.3/18

Left In: -396.715+/-61.304 χ^2/NDF : 1615.2/14

Left: -98.809+/-45.169 χ^2/NDF : 2464.1/30

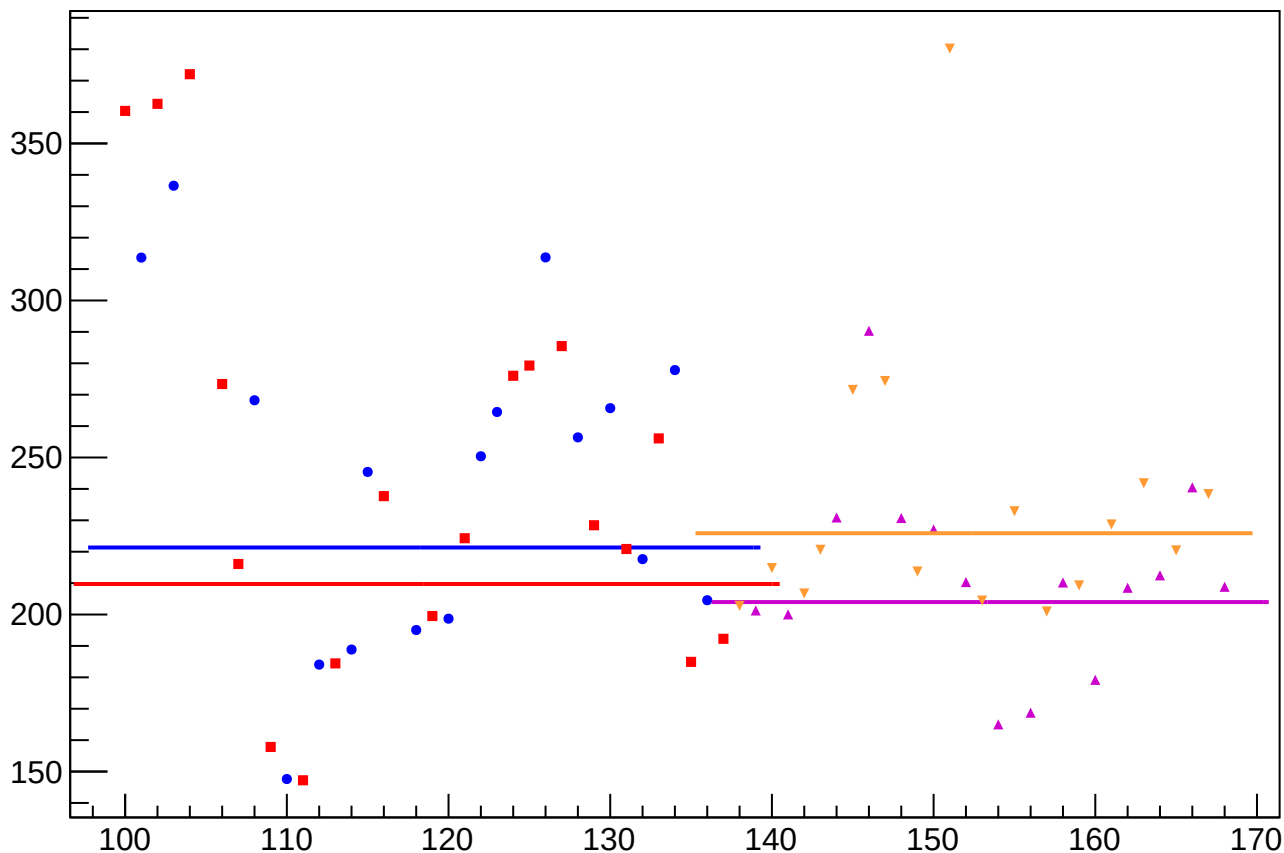
Right: -672.351+/-60.290 χ^2/NDF : 734.7/35

In: -423.850+/-50.420 χ^2/NDF : 1906.5/31

Out: -179.294+/-51.854 χ^2/NDF : 1338.8/34

All: -305.000+/-36.149 χ^2/NDF : 3256.7/66

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 ± 0.063 χ^2/NDF : 645688.1/16

Left Out: 225.888 ± 0.047 χ^2/NDF : 440939.8/15

Right Out: 209.717 ± 0.058 χ^2/NDF : 883917.7/18

Left In: 203.967 ± 0.043 χ^2/NDF : 423622.4/14

Left: 213.988 ± 0.032 χ^2/NDF : 981457.8/30

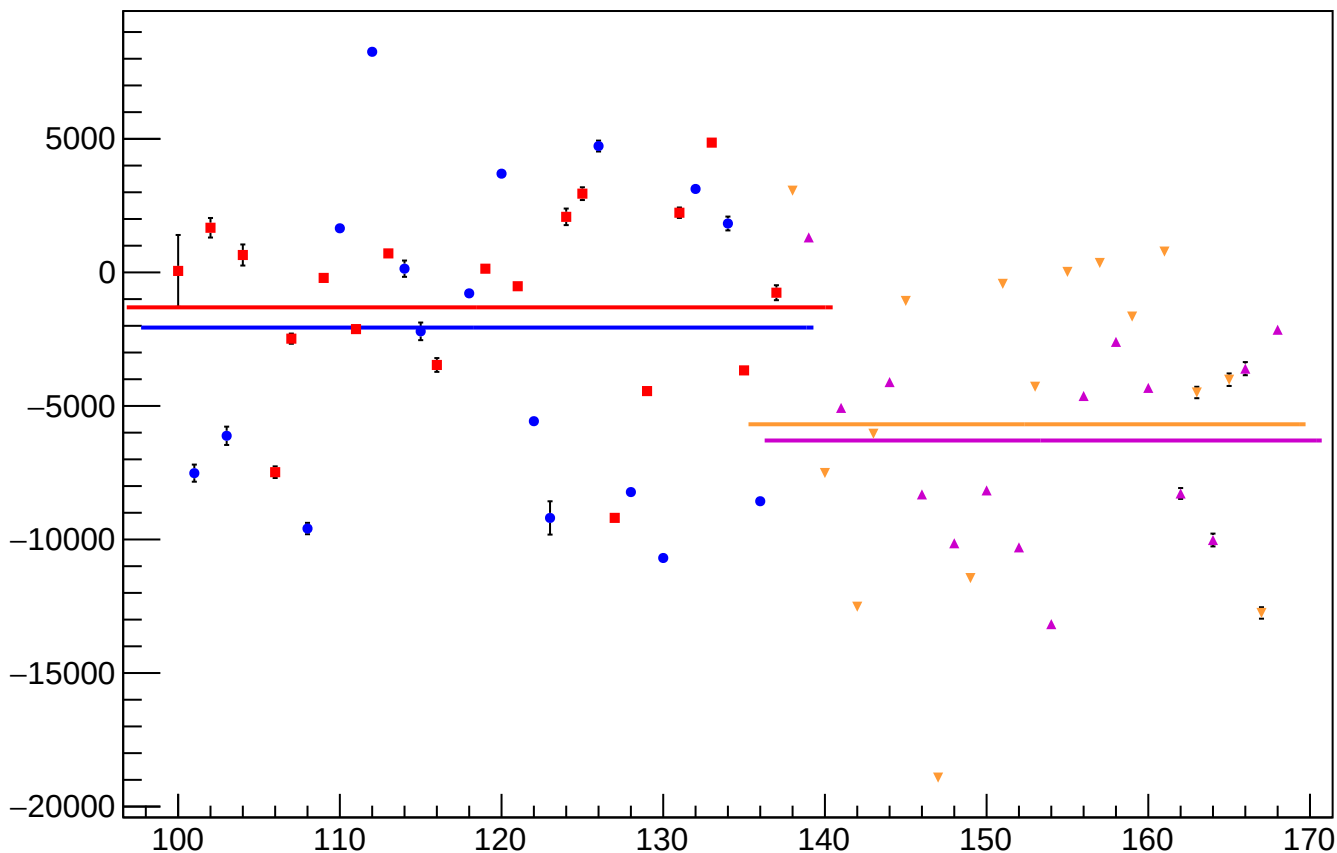
Right: 215.095 ± 0.043 χ^2/NDF : 1548093.3/35

In: 209.589 ± 0.036 χ^2/NDF : 1121291.0/31

Out: 219.459 ± 0.037 χ^2/NDF : 1371443.8/34

All: 214.386 ± 0.026 χ^2/NDF : 2529982.8/66

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -5686.485+/-37.391 χ^2/NDF : 29316.8/15

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -6293.907+/-38.085 χ^2/NDF : 9629.0/14

Left: -5984.613+/-26.681 χ^2/NDF : 39075.3/30

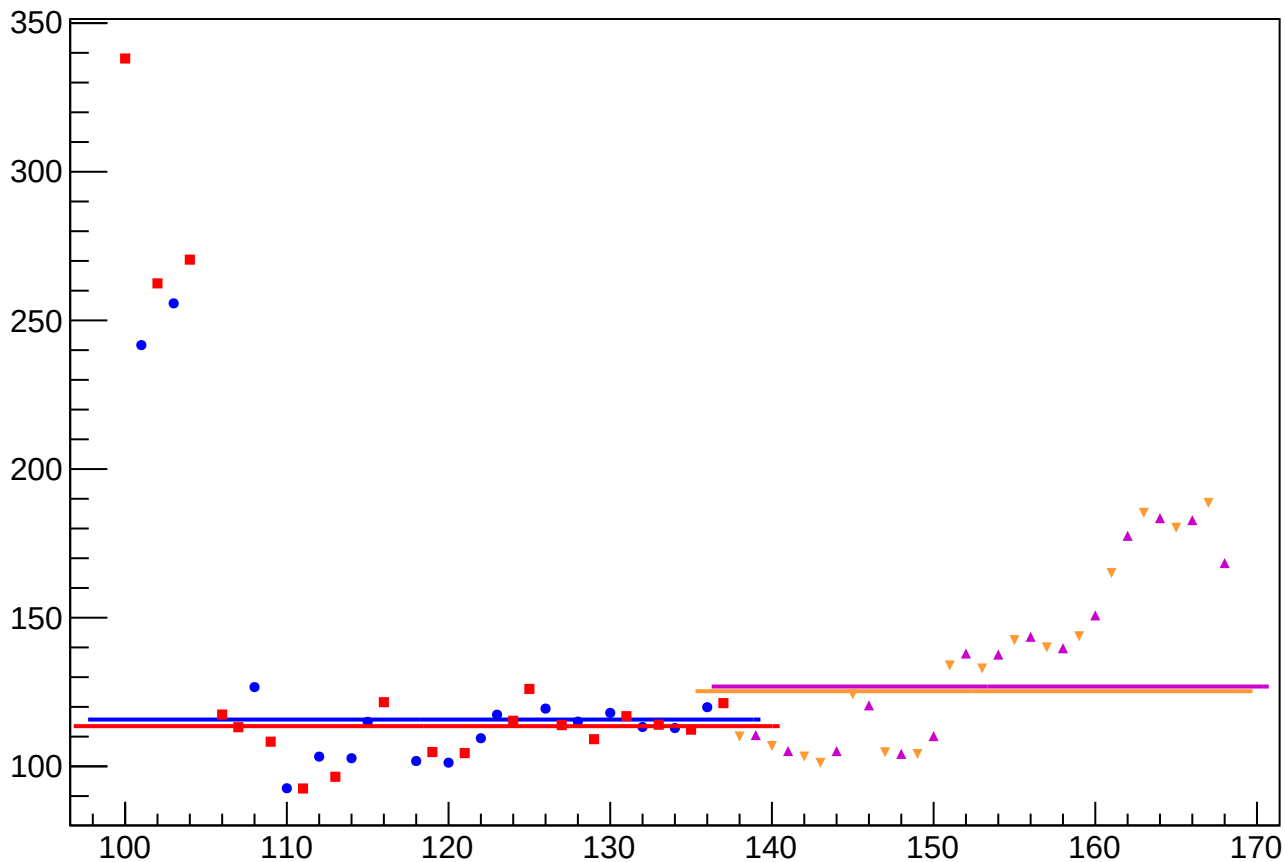
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4631.623+/-29.670 χ^2/NDF : 31008.7/31

Out: -3898.457+/-28.759 χ^2/NDF : 40810.3/34

All: -4253.617+/-20.650 χ^2/NDF : 72133.8/66

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 125.275+/-0.026 χ^2/NDF : 917634.8/15

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 126.842+/-0.027 χ^2/NDF : 823833.5/14

Left: 126.044+/-0.019 χ^2/NDF : 1743191.7/30

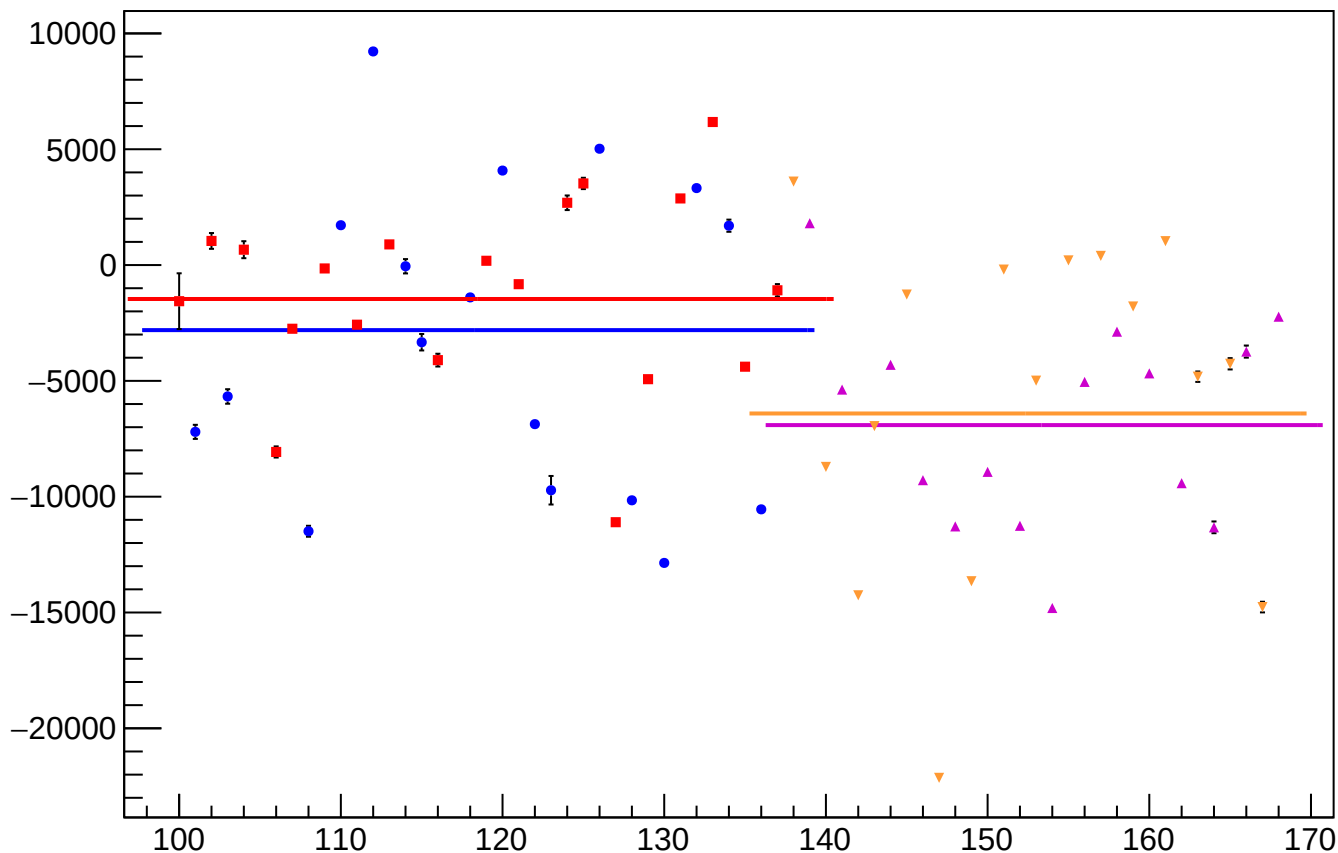
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 122.478+/-0.021 χ^2/NDF : 1634654.8/31

Out: 120.474+/-0.020 χ^2/NDF : 1795027.0/34

All: 121.445+/-0.015 χ^2/NDF : 3434387.3/66

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6408.003+/-39.701 χ^2/NDF : 35425.5/15

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -6909.366+/-40.446 χ^2/NDF : 11349.4/14

Left: -6654.024+/-28.332 χ^2/NDF : 46853.2/30

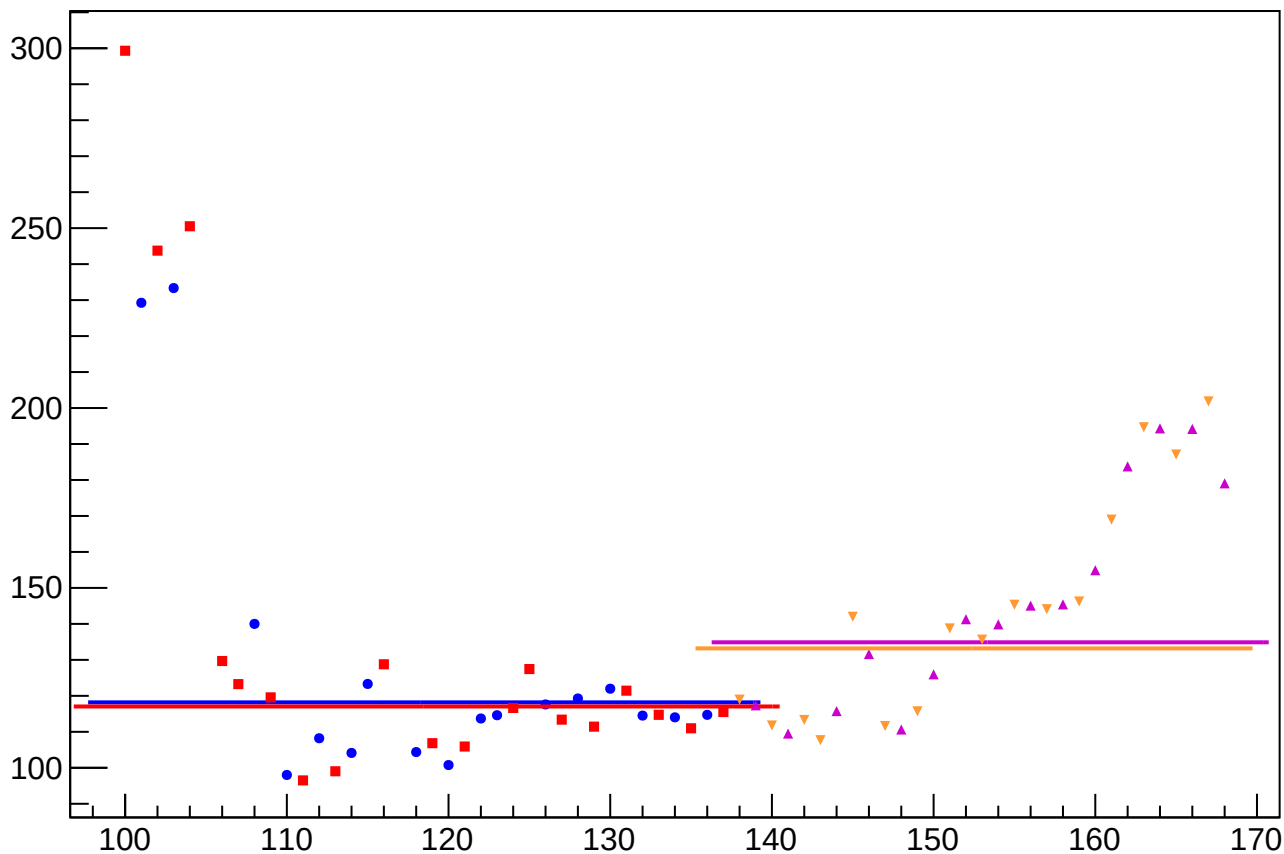
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5218.648+/-31.005 χ^2/NDF : 36850.3/31

Out: -4318.522+/-30.164 χ^2/NDF : 49983.0/34

All: -4756.210+/-21.621 χ^2/NDF : 87266.3/66

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 133.195+/-0.028 χ^2/NDF : 802143.1/15

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 134.883+/-0.029 χ^2/NDF : 717040.9/14

Left: 134.023+/-0.020 χ^2/NDF : 1520959.4/30

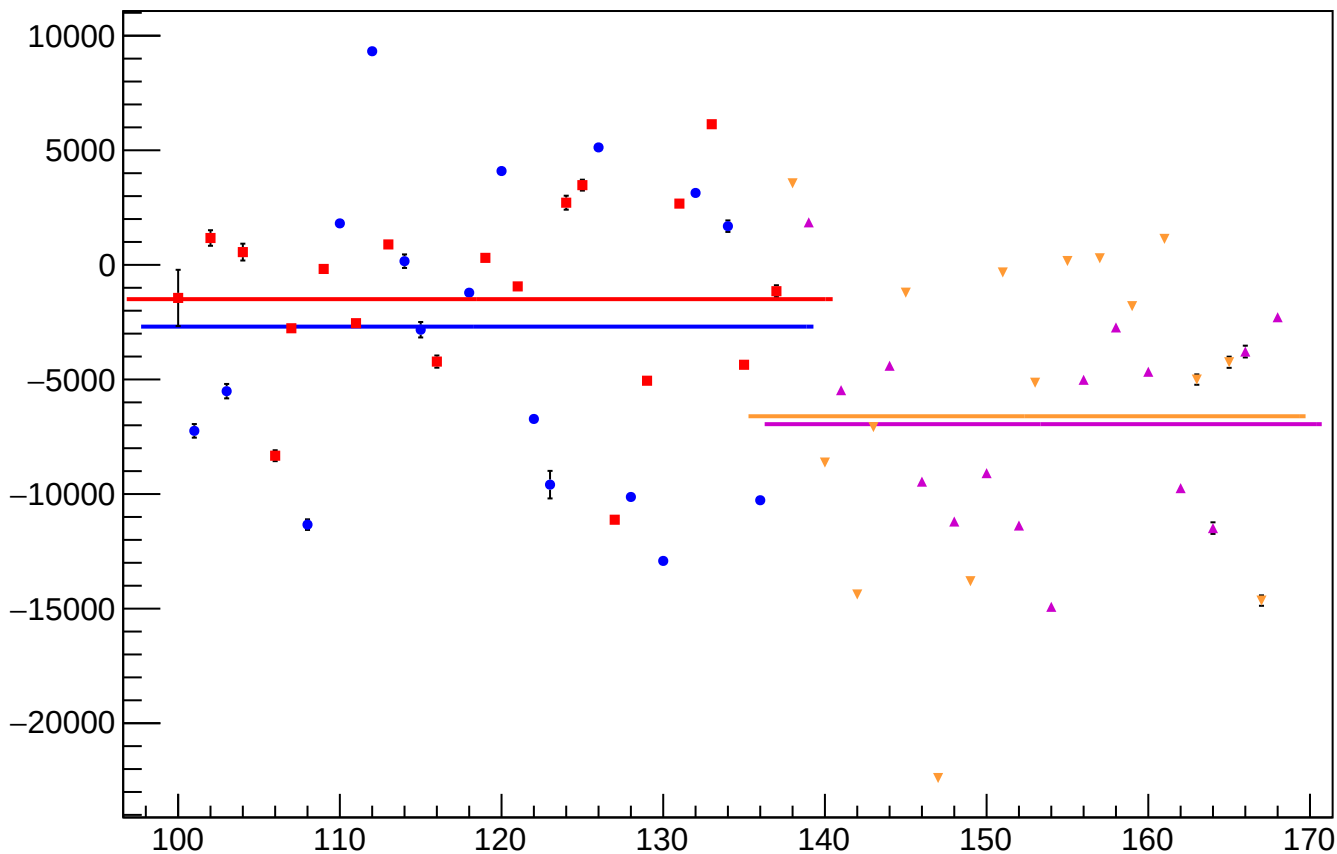
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 127.999+/-0.022 χ^2/NDF : 1493805.7/31

Out: 126.368+/-0.021 χ^2/NDF : 1632667.9/34

All: 127.161+/-0.015 χ^2/NDF : 3129317.0/66

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6605.471+/-38.758 χ^2/NDF : 38533.3/15

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6950.544+/-39.389 χ^2/NDF : 12210.8/14

Left: -6775.220+/-27.626 χ^2/NDF : 50783.2/30

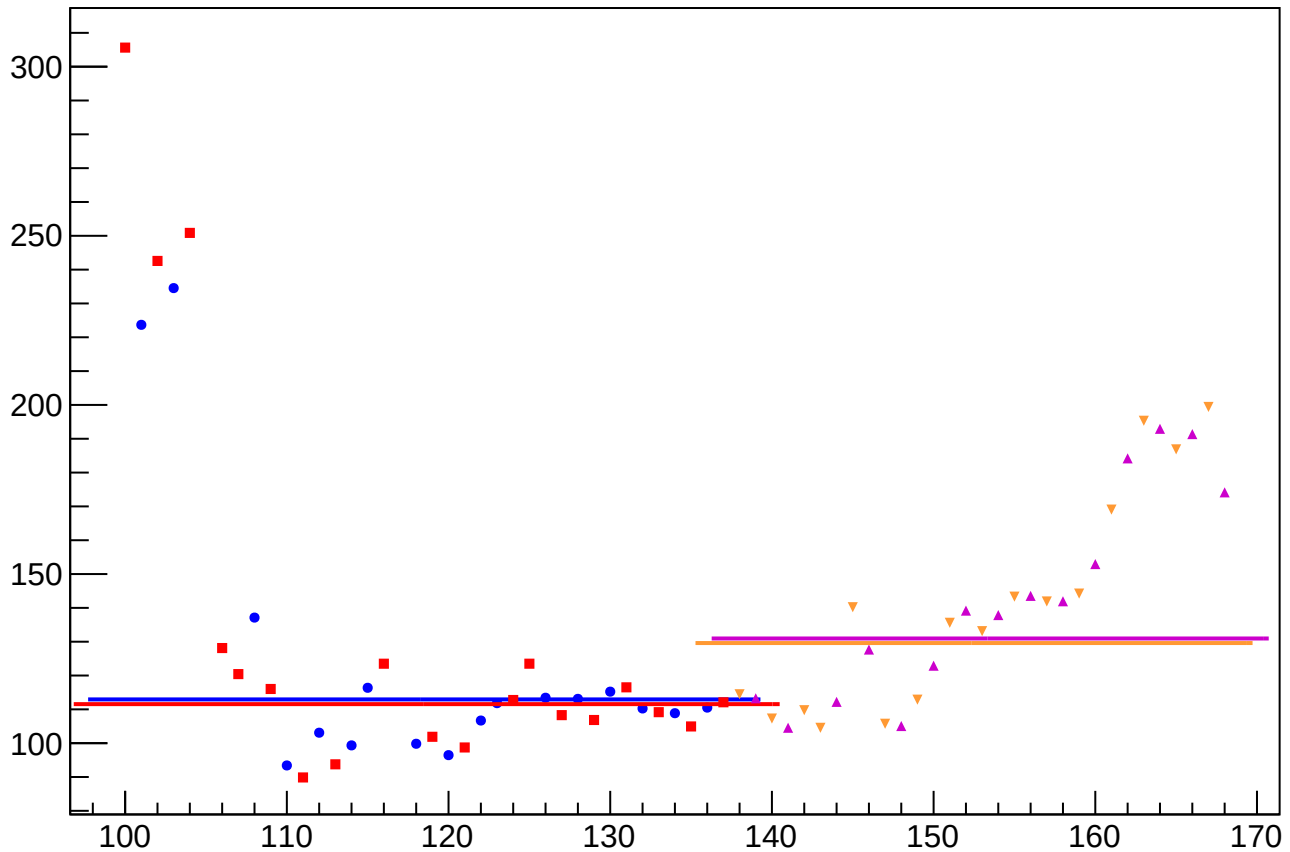
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5165.572+/-30.014 χ^2/NDF : 39968.0/31

Out: -4398.240+/-29.211 χ^2/NDF : 54758.6/34

All: -4771.504+/-20.933 χ^2/NDF : 95062.2/66

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 ± 0.033 $\chi^2/\text{NDF}: 680283.1/16$

Left Out: 129.603 ± 0.027 $\chi^2/\text{NDF}: 909916.7/15$

Right Out: 111.544 ± 0.031 $\chi^2/\text{NDF}: 765502.6/18$

Left In: 130.950 ± 0.028 $\chi^2/\text{NDF}: 810049.6/14$

Left: 130.265 ± 0.020 $\chi^2/\text{NDF}: 1721155.2/30$

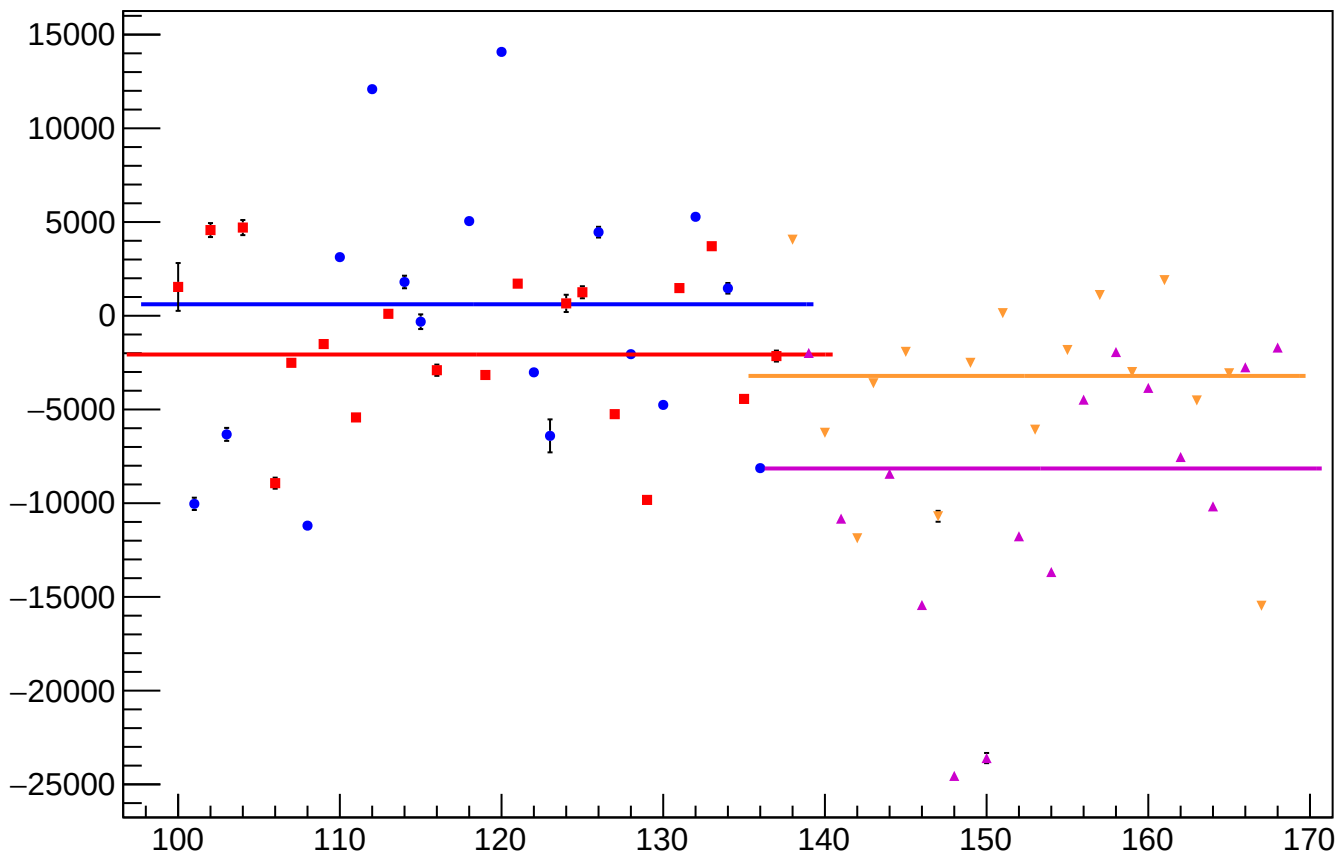
Right: 112.213 ± 0.023 $\chi^2/\text{NDF}: 1446732.2/35$

In: 123.397 ± 0.021 $\chi^2/\text{NDF}: 1665673.9/31$

Out: 121.802 ± 0.021 $\chi^2/\text{NDF}: 1862985.0/34$

All: 122.578 ± 0.015 $\chi^2/\text{NDF}: 3531561.5/66$

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 $\pm$ 56.062 χ^2/NDF : 18243.4/16

Left Out: -3209.613 $\pm$ 46.299 χ^2/NDF : 10443.1/15

Right Out: -2067.410 $\pm$ 53.931 χ^2/NDF : 4642.7/18

Left In: -8147.619 $\pm$ 47.894 χ^2/NDF : 15998.5/14

Left: -5595.056 $\pm$ 33.288 χ^2/NDF : 31936.6/30

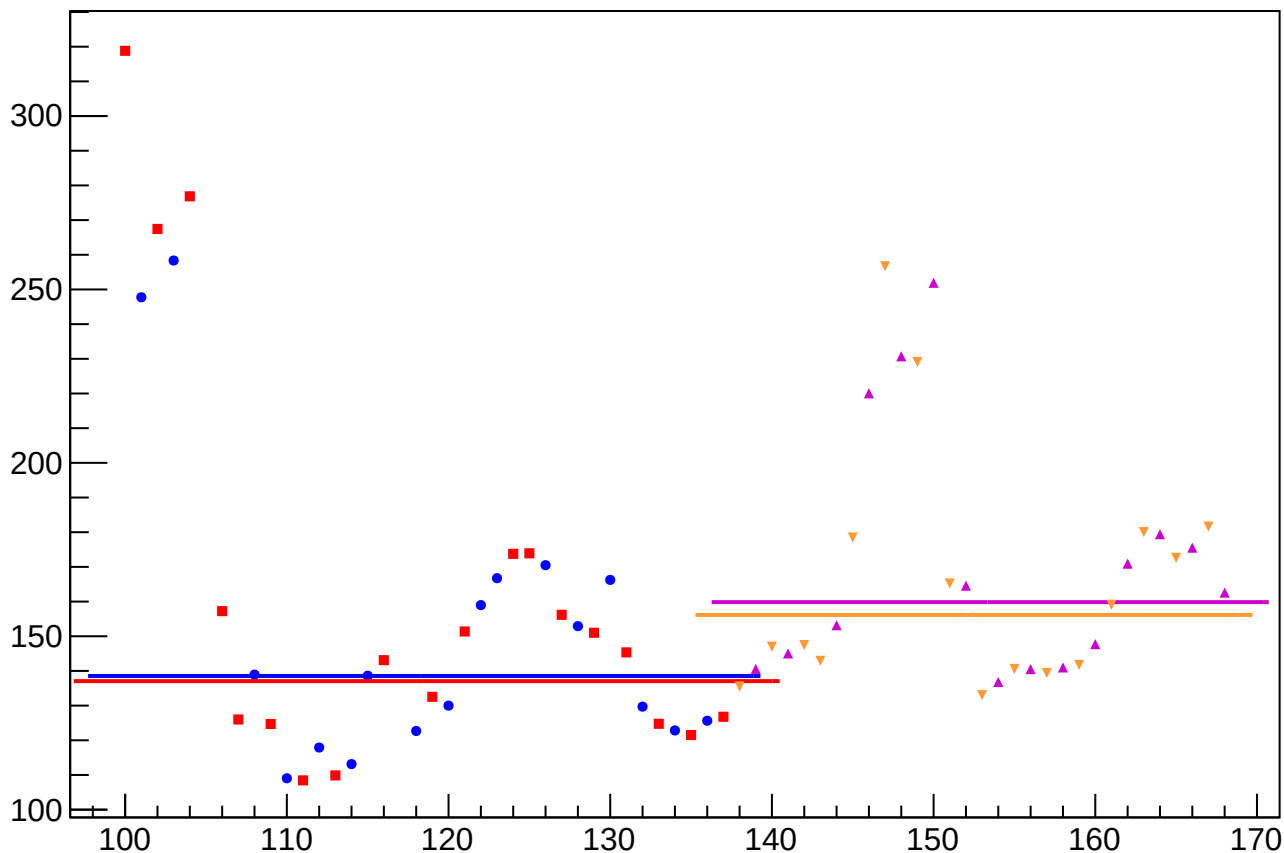
Right: -779.298 $\pm$ 38.866 χ^2/NDF : 24073.0/35

In: -4451.581 $\pm$ 36.415 χ^2/NDF : 48357.3/31

Out: -2724.975 $\pm$ 35.130 χ^2/NDF : 15344.0/34

All: -3557.274 $\pm$ 25.282 χ^2/NDF : 64865.8/66

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 156.144 $\pm$ 0.033 χ^2 /NDF: 656639.4/15

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 159.835 $\pm$ 0.034 χ^2 /NDF: 690011.2/14

Left: 157.927 $\pm$ 0.024 χ^2 /NDF: 1352790.4/30

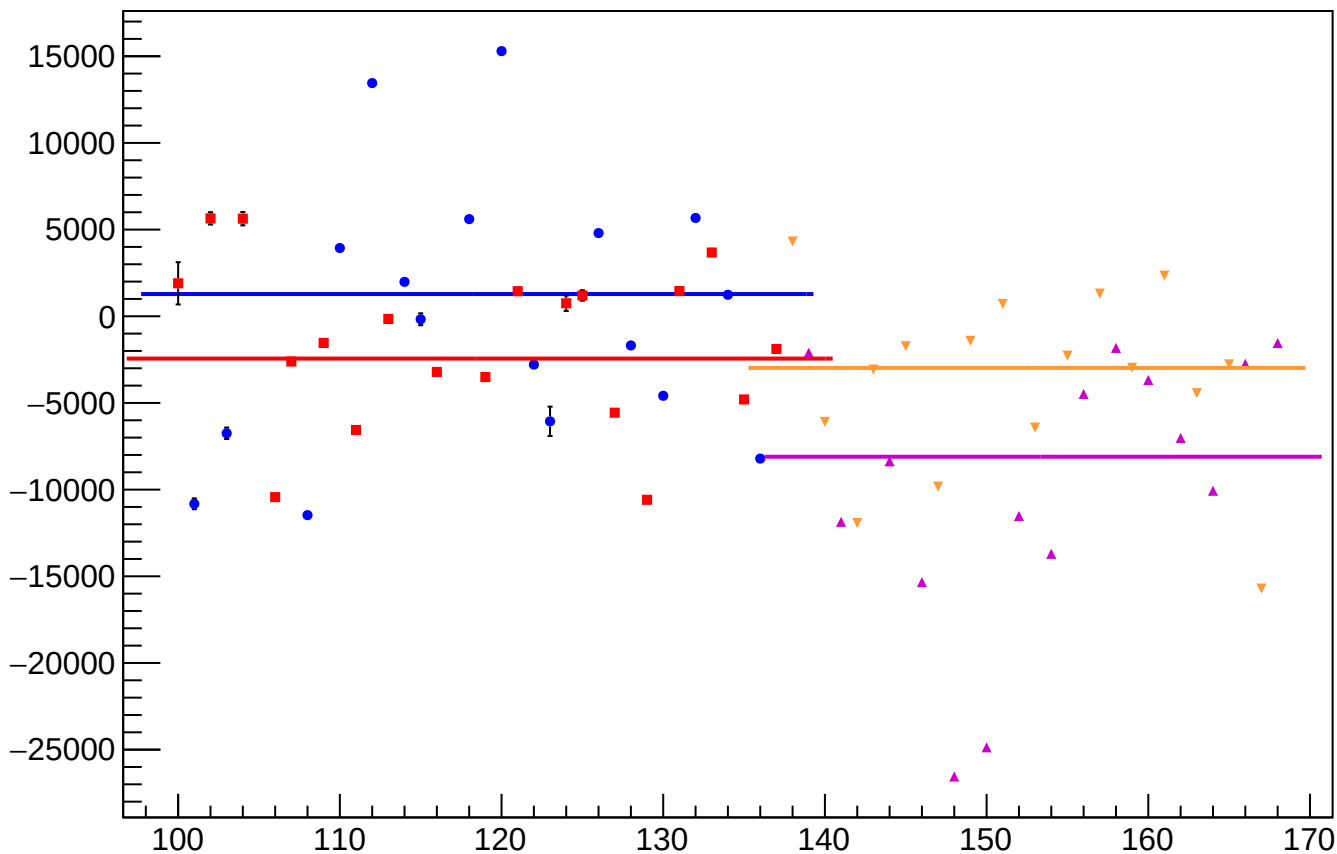
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 150.851 $\pm$ 0.026 χ^2 /NDF: 1525745.5/31

Out: 148.047 $\pm$ 0.025 χ^2 /NDF: 1556297.4/34

All: 149.399 $\pm$ 0.018 χ^2 /NDF: 3088185.6/66

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2981.235+/-41.285 χ^2/NDF :13554.9/15

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -8102.089+/-42.870 χ^2/NDF :21097.3/14

Left: -5445.241+/-29.738 χ^2/NDF : 42055.0/30

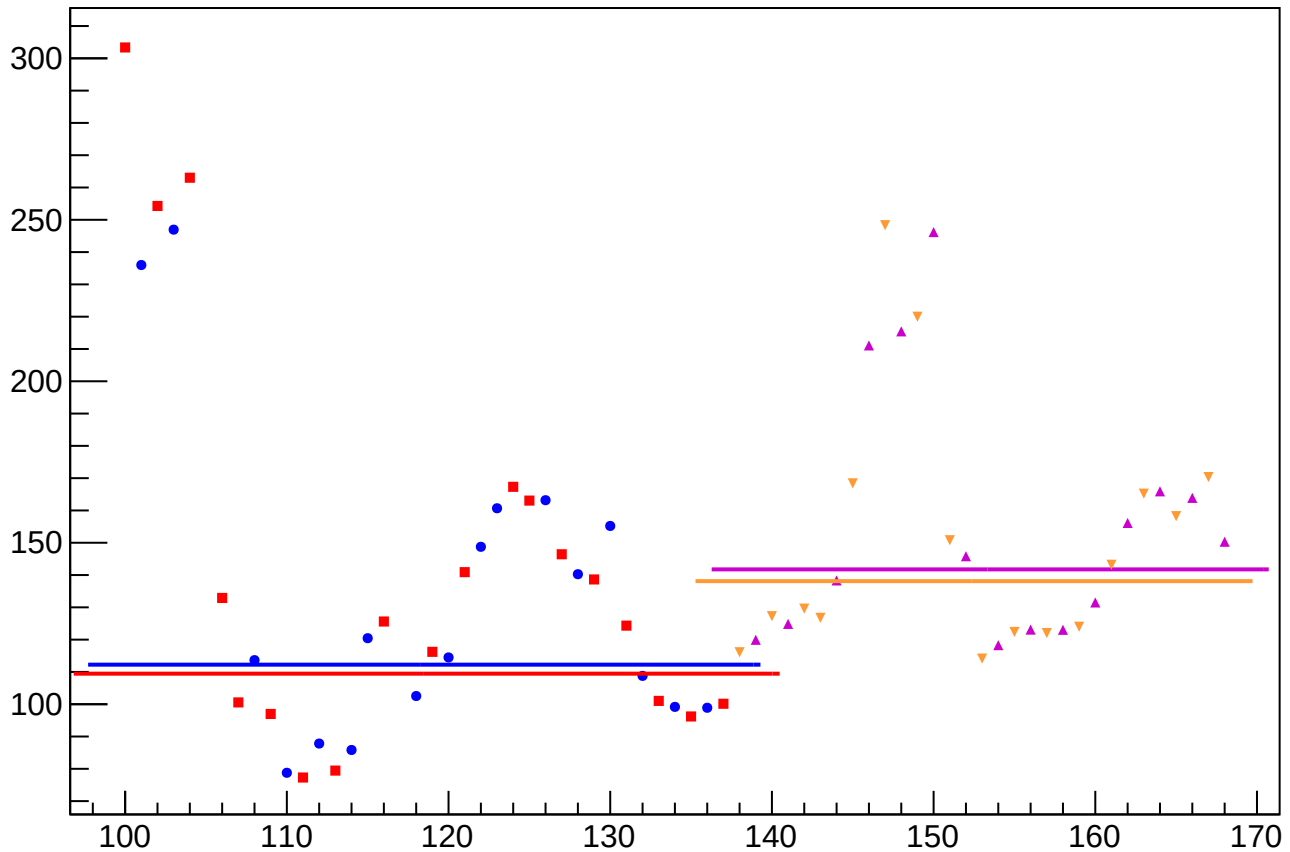
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3797.335+/-31.541 χ^2/NDF :73620.4/31

Out: -2729.694+/-30.198 χ^2/NDF :21312.2/34

All: -3240.296+/-21.813 χ^2/NDF : 95530.5/66

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 138.115+/-0.029 χ^2/NDF :922253.3/15

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 141.754+/-0.030 χ^2/NDF :948915.1/14

Left: 139.866+/-0.021 χ^2/NDF : 1878642.8/30

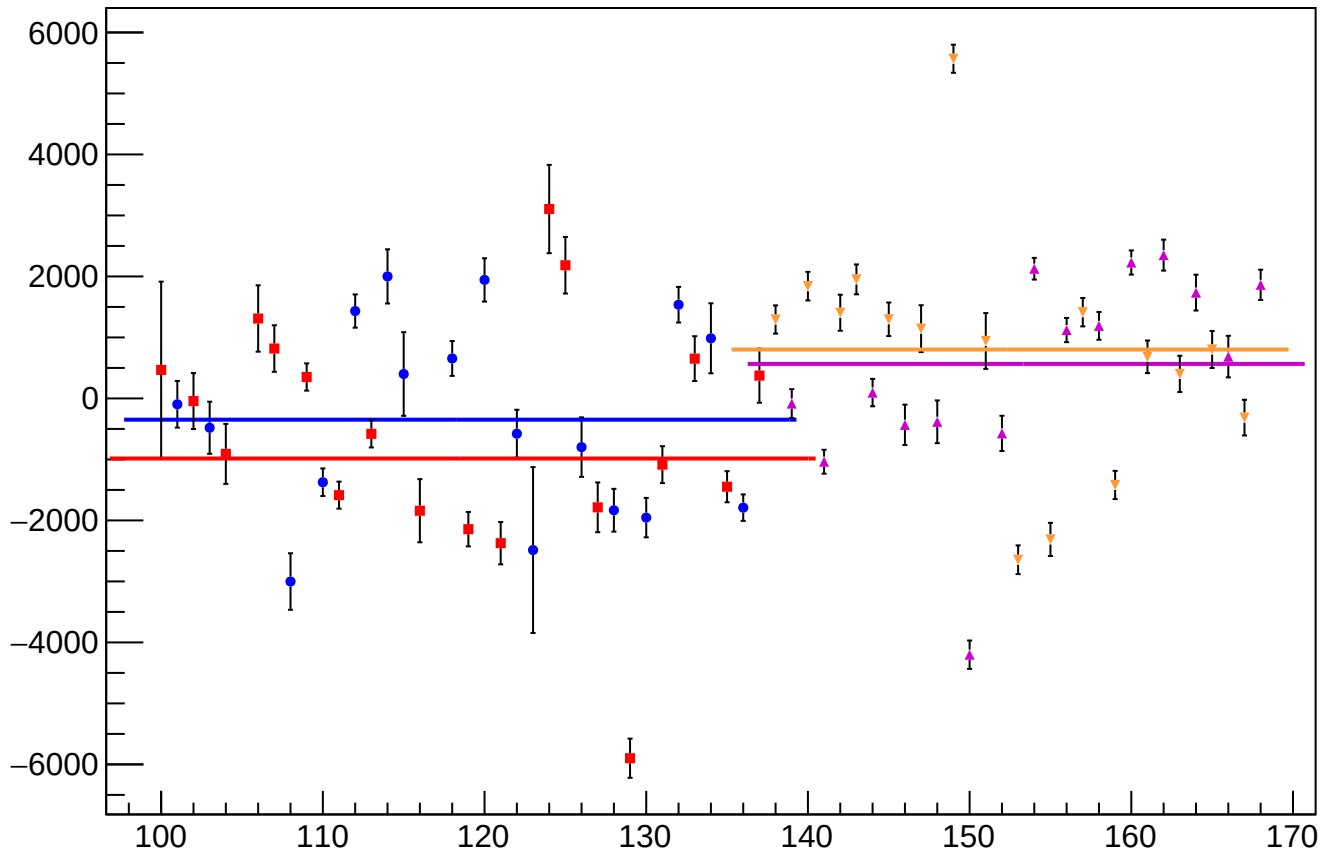
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 128.221+/-0.022 χ^2/NDF :2508923.7/31

Out: 124.791+/-0.021 χ^2/NDF :2639883.1/34

All: 126.432+/-0.015 χ^2/NDF : 5161145.5/66

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 ± 83.826 $\chi^2/\text{NDF}: 317.3/16$

Left Out: 801.622 ± 66.631 $\chi^2/\text{NDF}: 943.6/15$

Right Out: -985.242 ± 77.683 $\chi^2/\text{NDF}: 476.6/18$

Left In: 565.943 ± 61.389 $\chi^2/\text{NDF}: 786.2/14$

Left: 674.148 ± 45.148 $\chi^2/\text{NDF}: 1736.6/30$

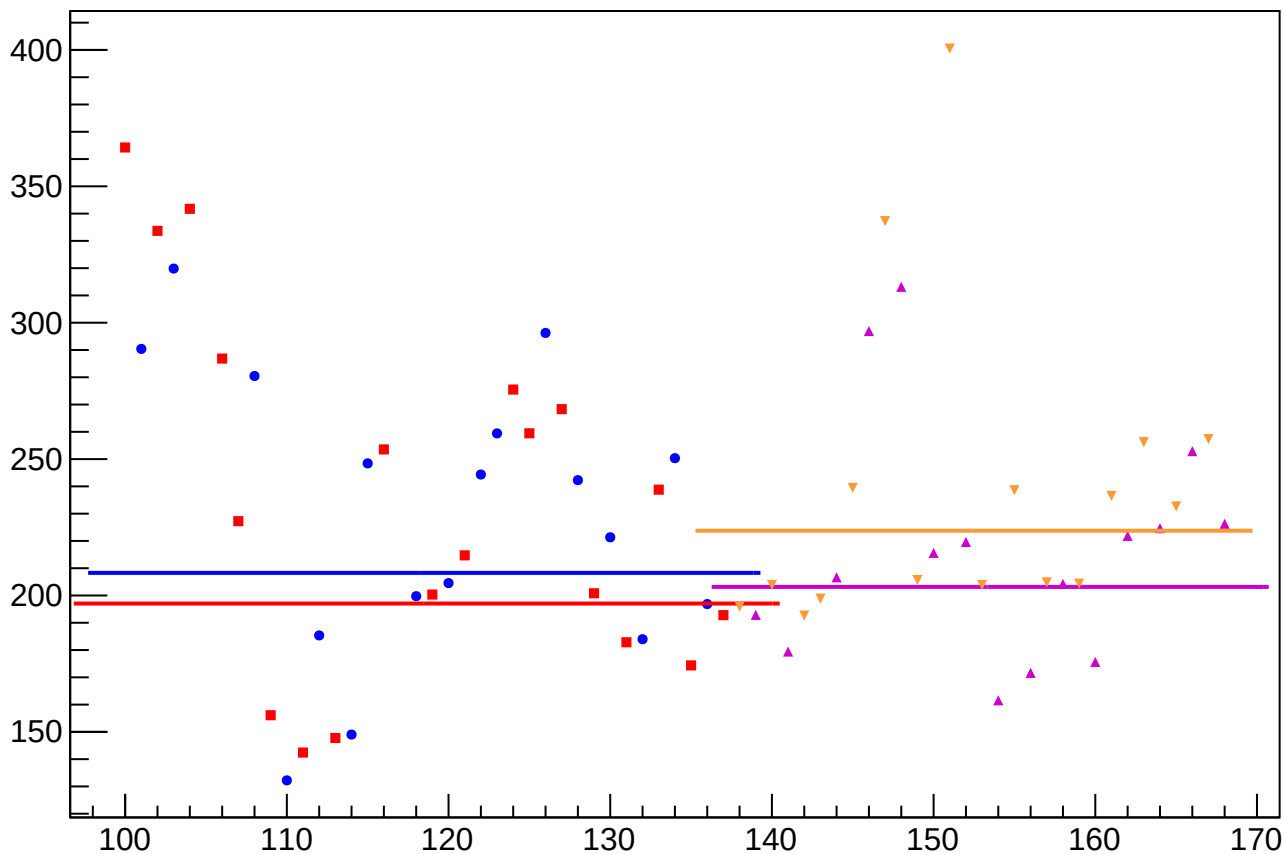
Right: -690.850 ± 56.978 $\chi^2/\text{NDF}: 824.9/35$

In: 246.873 ± 49.528 $\chi^2/\text{NDF}: 1180.9/31$

Out: 44.233 ± 50.575 $\chi^2/\text{NDF}: 1725.0/34$

All: 147.673 ± 35.386 $\chi^2/\text{NDF}: 2914.1/66$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2 /NDF: 698491.0/16

Left Out: 223.741 $\pm$ 0.047 χ^2 /NDF: 683218.1/15

Right Out: 197.051 $\pm$ 0.055 χ^2 /NDF: 926786.6/18

Left In: 203.147 $\pm$ 0.043 χ^2 /NDF: 683484.1/14

Left: 212.602 $\pm$ 0.032 χ^2 /NDF: 1470038.6/30

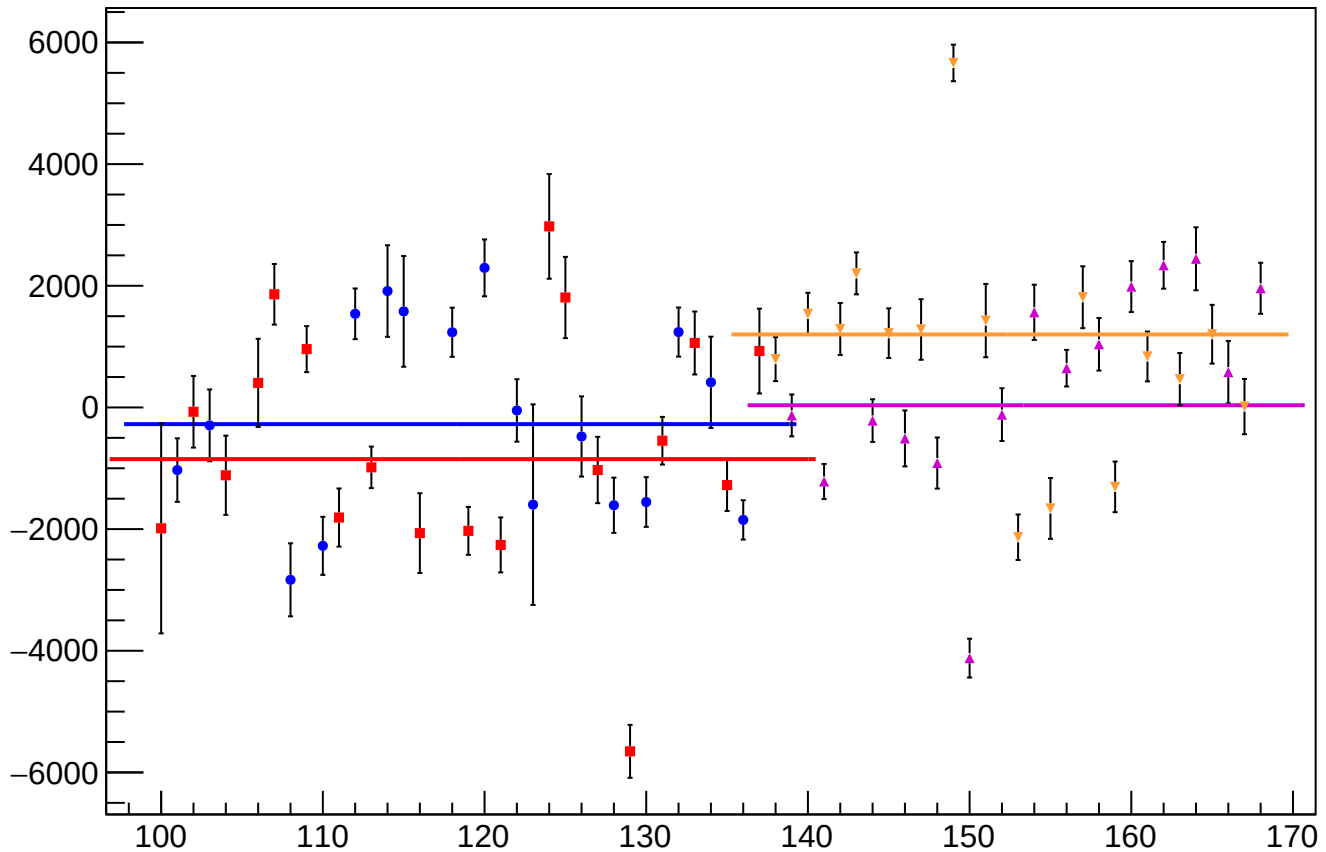
Right: 202.243 $\pm$ 0.040 χ^2 /NDF: 1644610.3/35

In: 204.942 $\pm$ 0.035 χ^2 /NDF: 1386870.1/31

Out: 212.428 $\pm$ 0.036 χ^2 /NDF: 1746024.6/34

All: 208.607 $\pm$ 0.025 χ^2 /NDF: 3155265.2/66

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 χ^2/NDF : 171.6/16

Left Out: 1200.014 ± 102.574 χ^2/NDF : 391.8/15

Right Out: -849.413 ± 115.349 χ^2/NDF : 263.3/18

Left In: 36.366 ± 99.494 χ^2/NDF : 318.1/14

Left: 600.454 ± 71.417 χ^2/NDF : 776.2/30

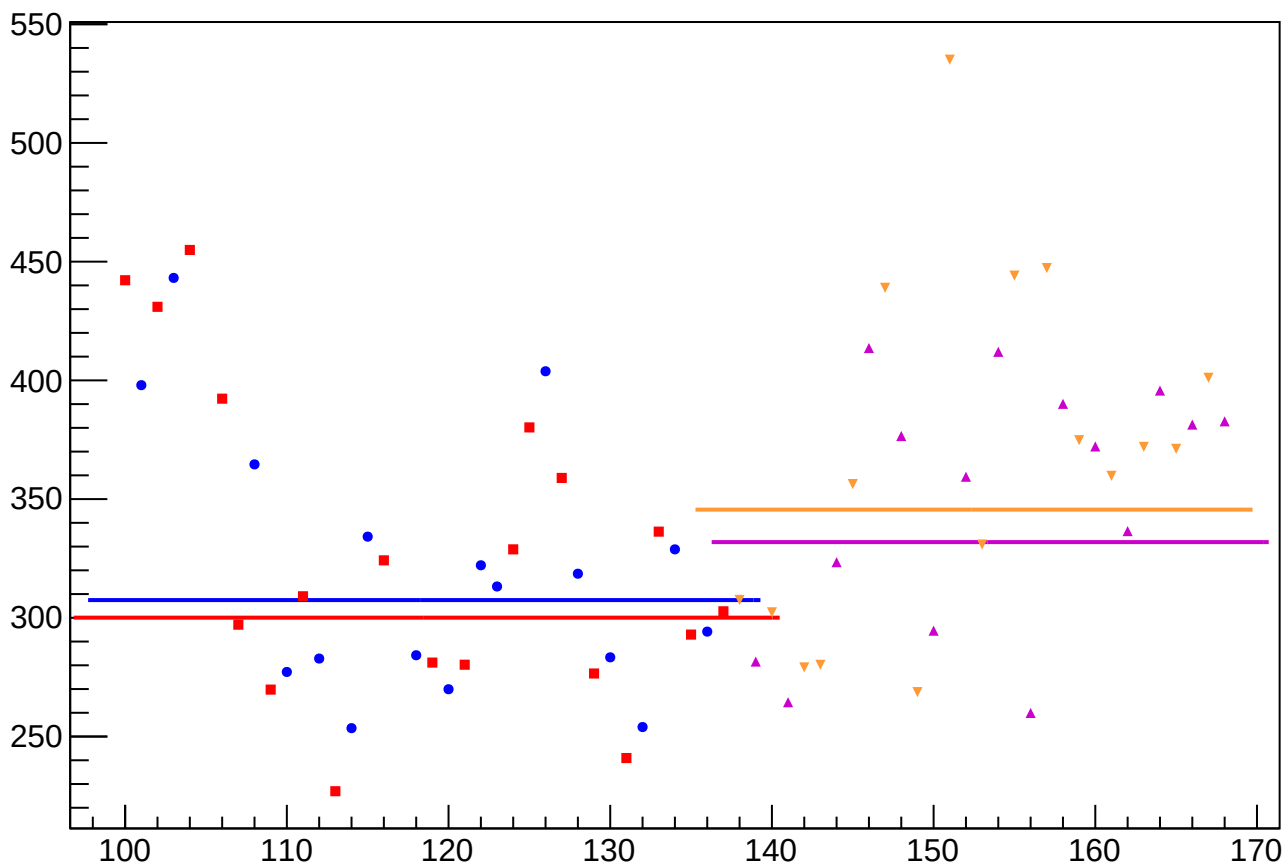
Right: -576.352 ± 83.597 χ^2/NDF : 446.6/35

In: -88.533 ± 76.933 χ^2/NDF : 493.6/31

Out: 295.028 ± 76.651 χ^2/NDF : 831.3/34

All: 103.952 ± 54.300 χ^2/NDF : 1337.4/66

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2/NDF : 323096.7/16

Left Out: 345.561 $\pm$ 0.073 χ^2/NDF : 790291.6/15

Right Out: 300.069 $\pm$ 0.082 χ^2/NDF : 490398.9/18

Left In: 331.886 $\pm$ 0.070 χ^2/NDF : 584496.1/14

Left: 338.515 $\pm$ 0.050 χ^2/NDF : 1393103.7/30

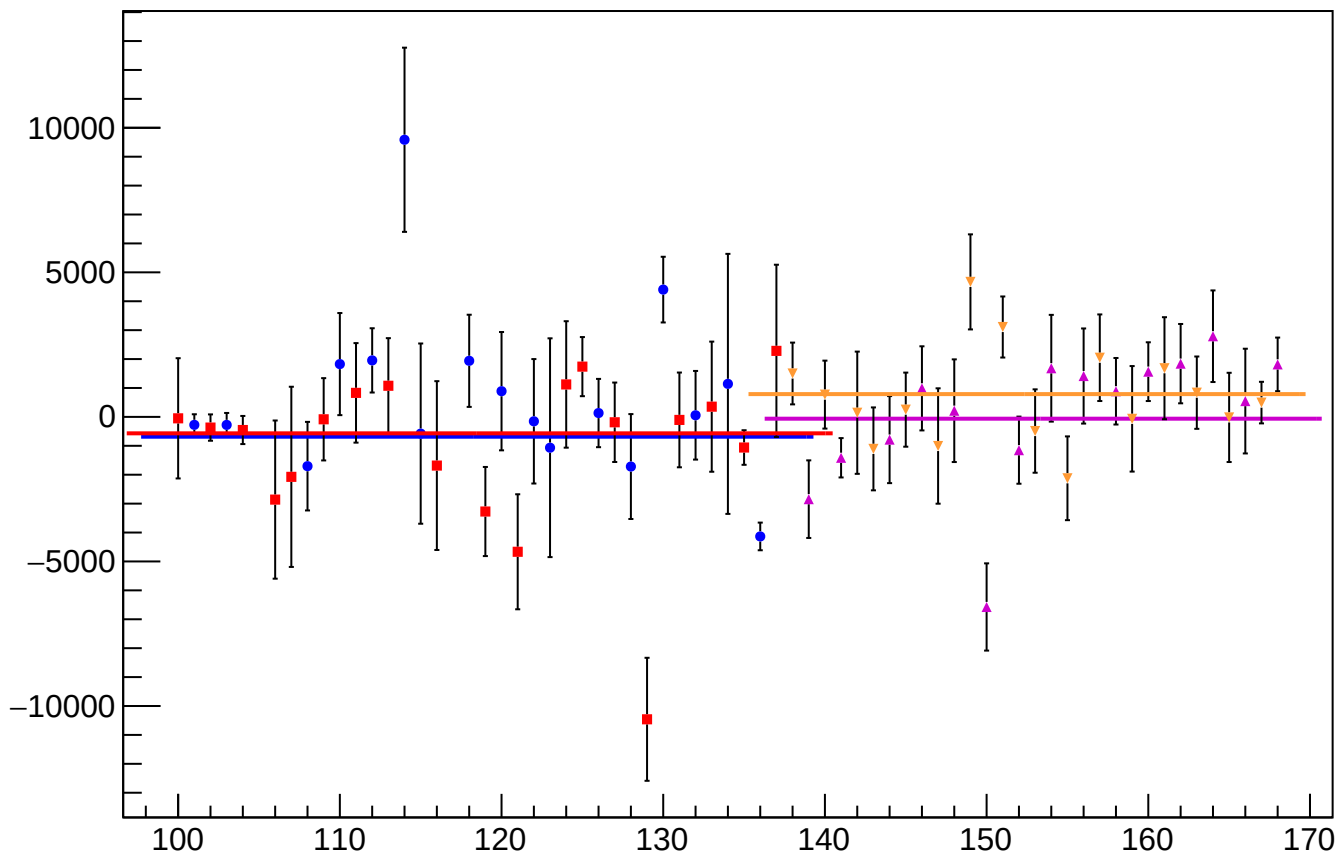
Right: 303.582 $\pm$ 0.059 χ^2/NDF : 817401.9/35

In: 322.068 $\pm$ 0.054 χ^2/NDF : 956031.2/31

Out: 325.473 $\pm$ 0.054 χ^2/NDF : 1454403.1/34

All: 323.777 $\pm$ 0.038 χ^2/NDF : 2412400.5/66

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 ± 210.341 χ^2/NDF : 97.4/16

Left Out: 788.259 ± 325.225 χ^2/NDF : 20.1/15

Right Out: -568.651 ± 243.251 χ^2/NDF : 39.7/18

Left In: -62.220 ± 317.636 χ^2/NDF : 42.9/14

Left: 352.980 ± 227.238 χ^2/NDF : 66.5/30

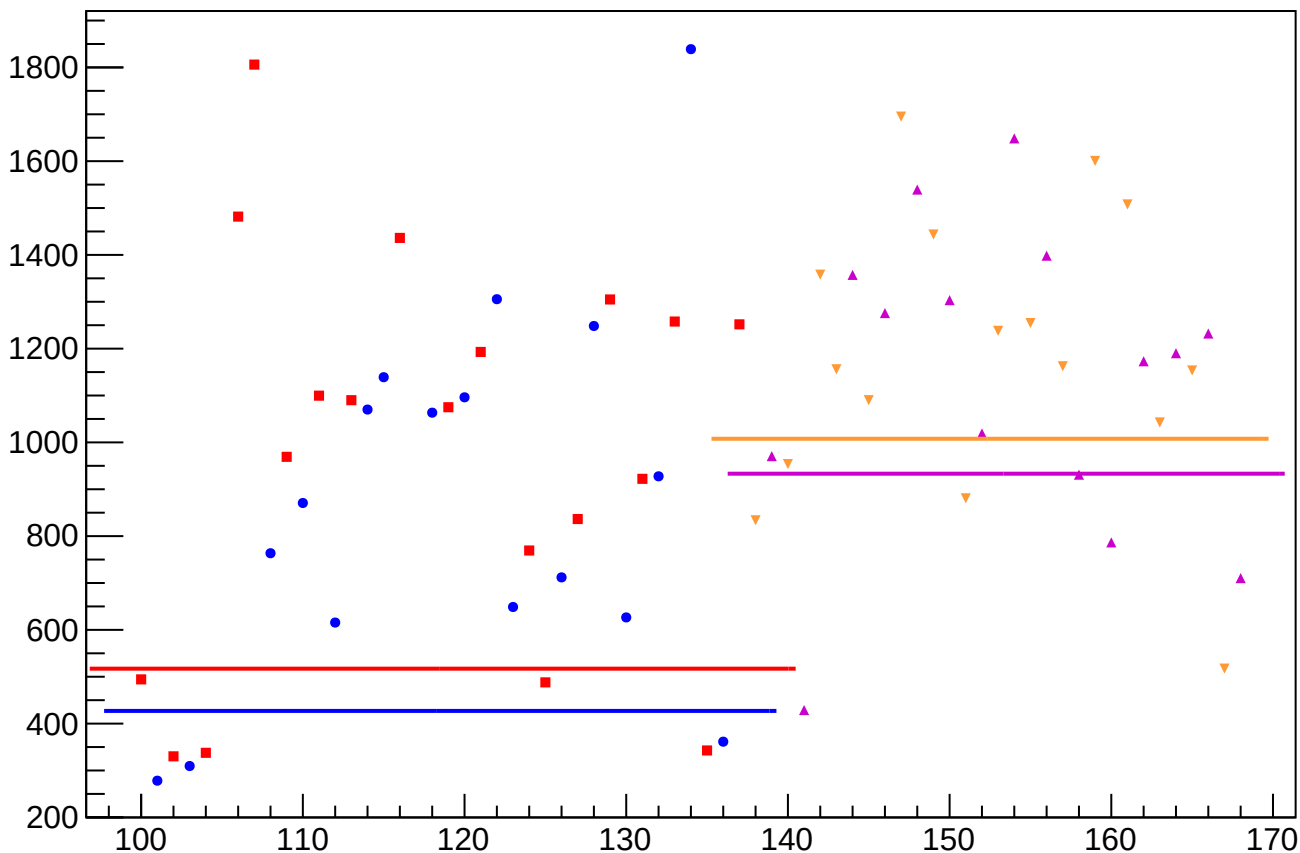
Right: -635.255 ± 159.106 χ^2/NDF : 137.2/35

In: -495.190 ± 175.374 χ^2/NDF : 142.9/31

Out: -81.876 ± 194.793 χ^2/NDF : 71.0/34

All: -310.156 ± 130.334 χ^2/NDF : 216.4/66

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 1007.735+/-0.230 χ^2/NDF : 2000013.7/15

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 933.202+/-0.225 χ^2/NDF : 2519384.6/14

Left: 969.589+/-0.161 χ^2/NDF : 4573159.6/30

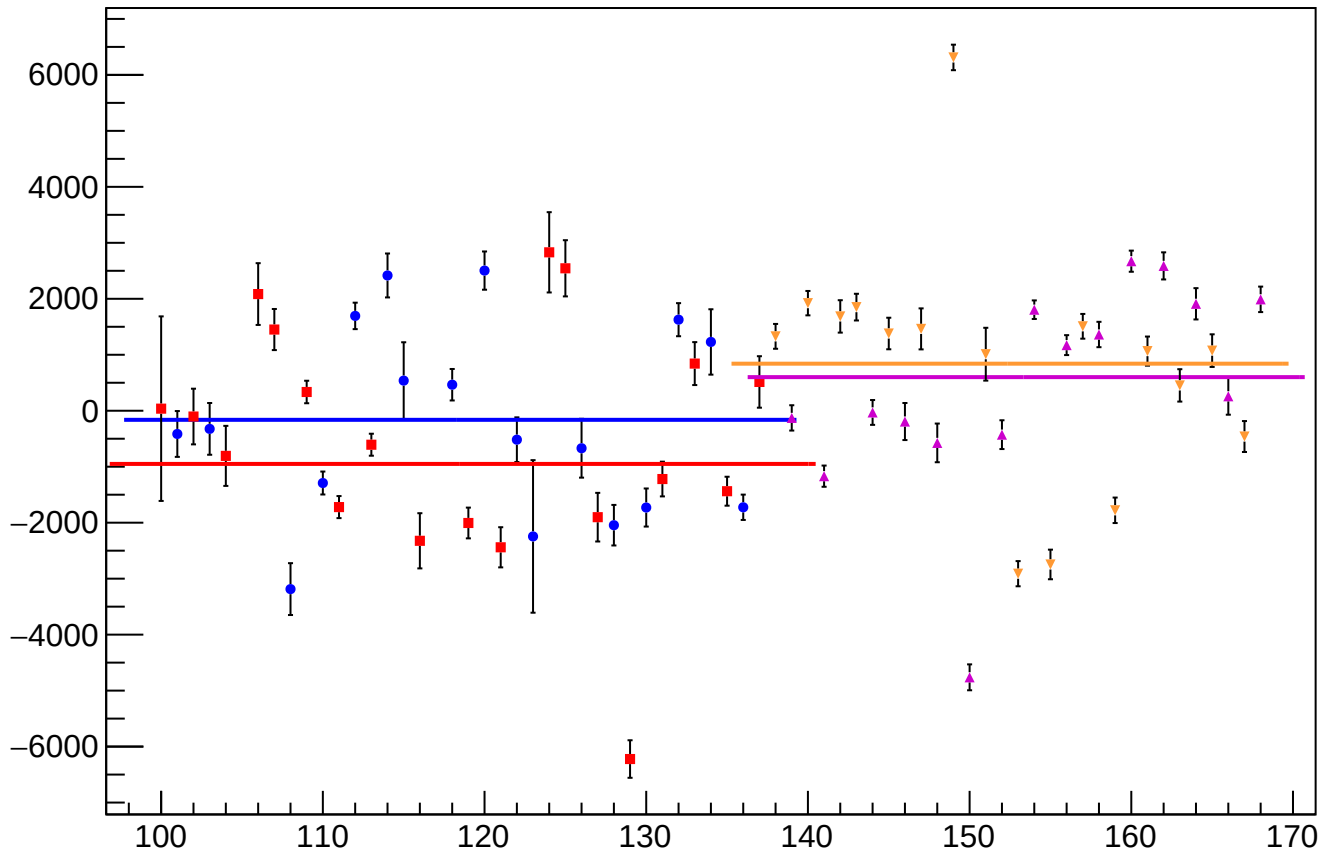
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 581.366+/-0.124 χ^2/NDF : 8914999.5/31

Out: 693.196+/-0.138 χ^2/NDF : 8522395.1/34

All: 631.430+/-0.092 χ^2/NDF : 17801465.8/66

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333+/-82.350 χ^2/NDF : 387.6/16

Left Out: 840.740+/-64.533 χ^2/NDF :1267.7/15

Right Out: -950.093+/-75.133 χ^2/NDF : 539.8/18

Left In: 600.486+/-58.434 χ^2/NDF :998.5/14

Left: 708.727+/-43.315 χ^2/NDF : 2273.8/30

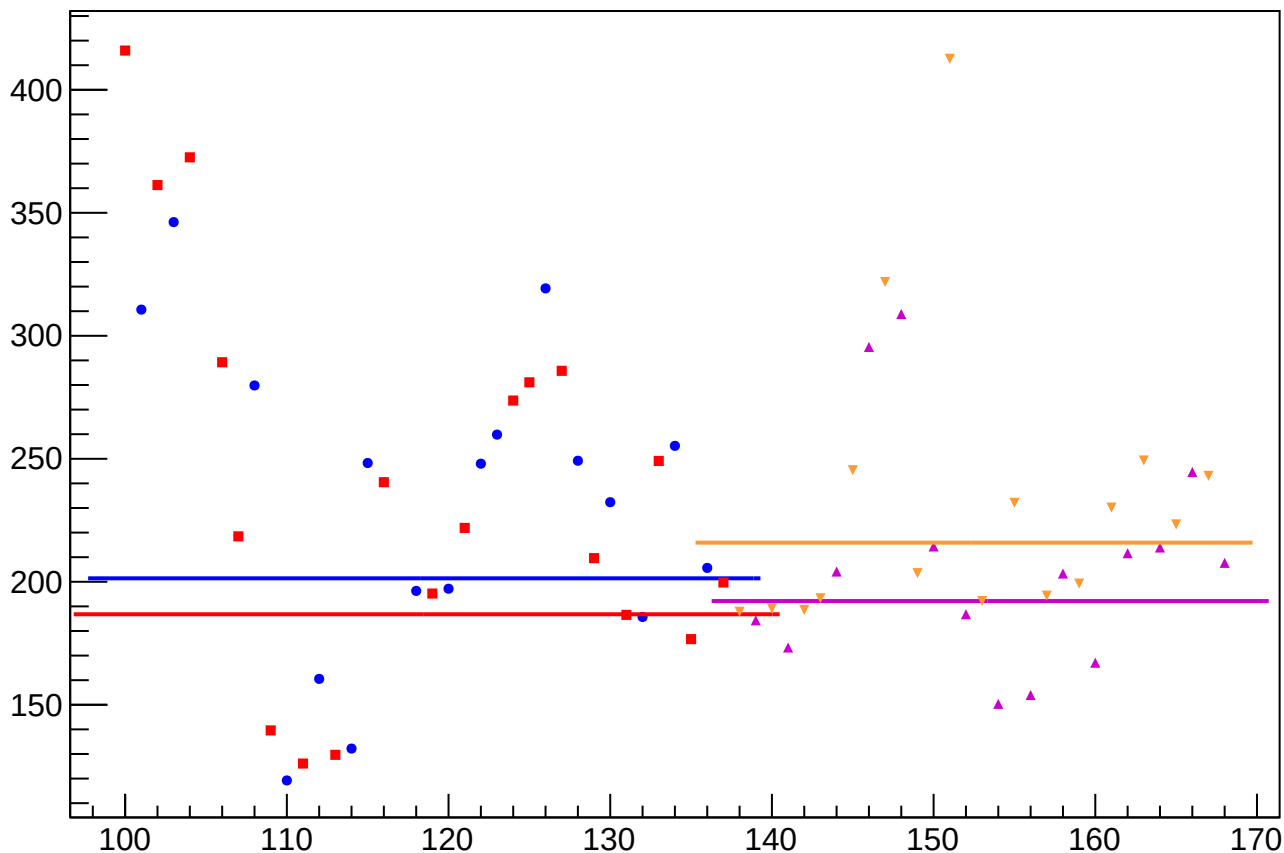
Right: -592.238+/-55.504 χ^2/NDF : 977.3/35

In: 345.025+/-47.656 χ^2/NDF :1443.1/31

Out: 80.463+/-48.954 χ^2/NDF :2134.4/34

All: 216.299+/-34.148 χ^2/NDF : 3592.5/66

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 215.914+/-0.046 χ^2/NDF : 753138.8/15

Right Out: 186.797+/-0.053 χ^2/NDF : 1393162.0/18

Left In: 192.178+/-0.041 χ^2/NDF : 814681.4/14

Left: 202.871+/-0.031 χ^2/NDF : 1716493.1/30

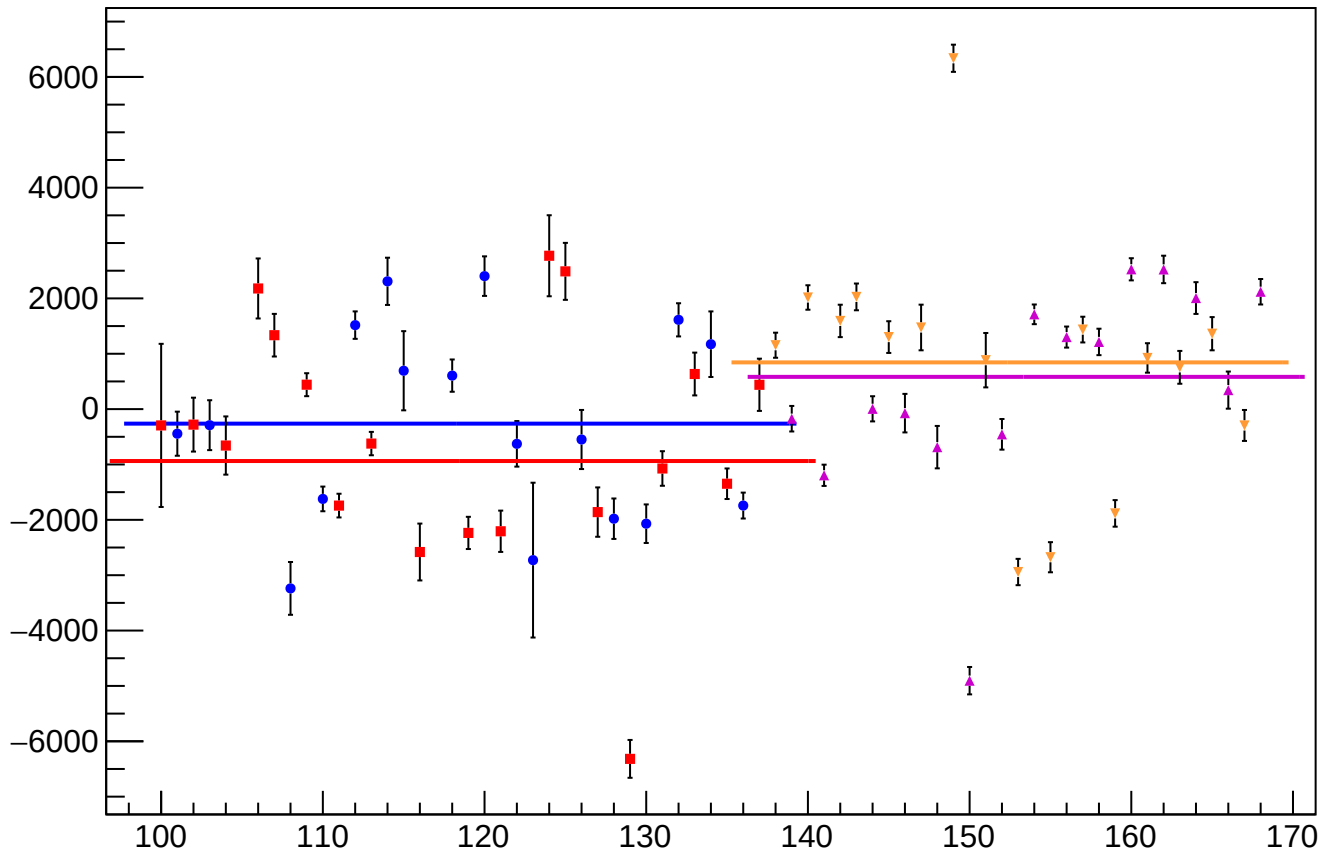
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 195.269+/-0.034 χ^2/NDF : 1887419.9/31

Out: 203.553+/-0.035 χ^2/NDF : 2319146.0/34

All: 199.300+/-0.024 χ^2/NDF : 4235967.5/66

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 ± 85.433 $\chi^2/\text{NDF}: 368.7/16$

Left Out: 844.038 ± 66.807 $\chi^2/\text{NDF}: 1141.9/15$

Right Out: -937.678 ± 78.434 $\chi^2/\text{NDF}: 521.9/18$

Left In: 582.575 ± 61.120 $\chi^2/\text{NDF}: 910.2/14$

Left: 701.706 ± 45.095 $\chi^2/\text{NDF}: 2060.4/30$

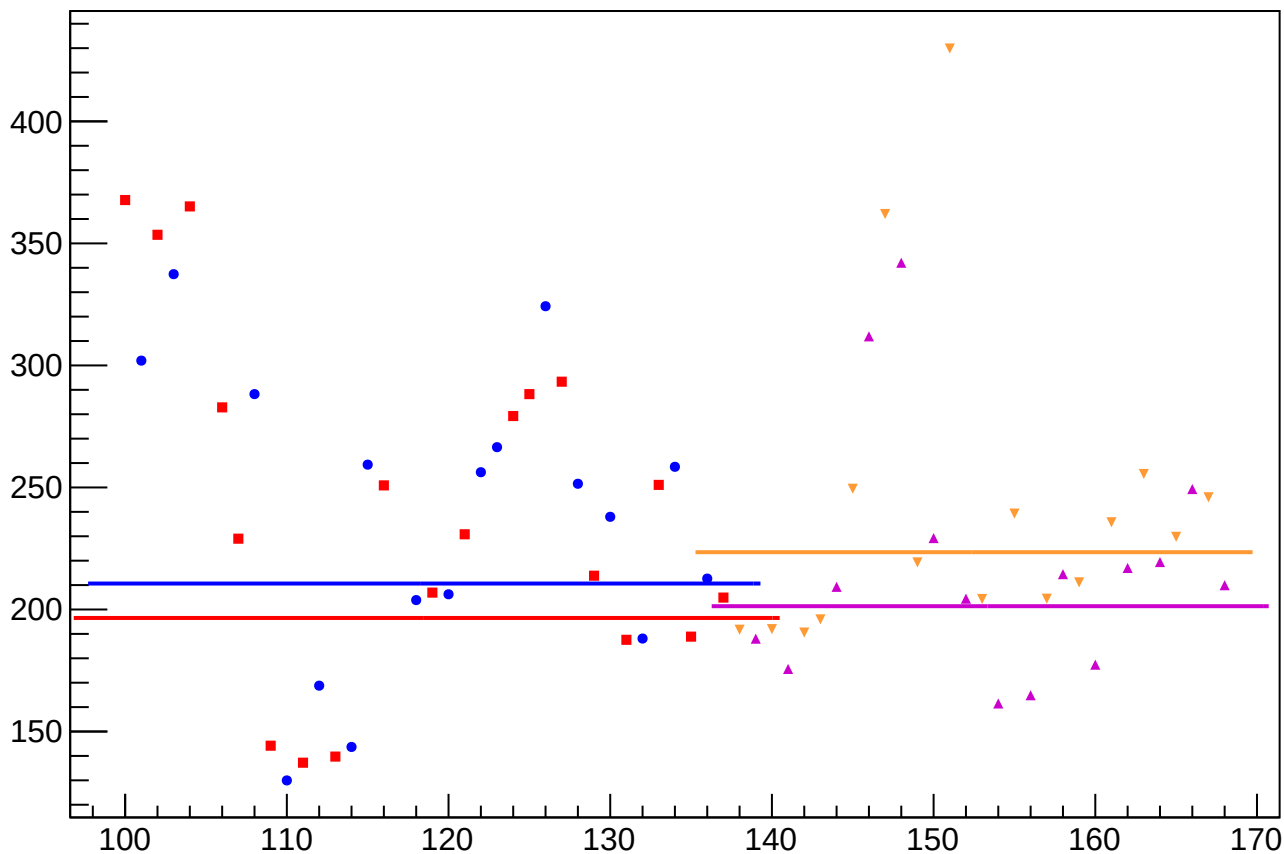
Right: -628.795 ± 57.777 $\chi^2/\text{NDF}: 924.5/35$

In: 296.538 ± 49.709 $\chi^2/\text{NDF}: 1343.6/31$

Out: 94.897 ± 50.859 $\chi^2/\text{NDF}: 1962.9/34$

All: 198.022 ± 35.549 $\chi^2/\text{NDF}: 3314.5/66$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 223.473+/-0.047 χ^2/NDF : 807218.7/15

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 201.350+/-0.043 χ^2/NDF : 810826.7/14

Left: 211.430+/-0.032 χ^2/NDF : 1737435.1/30

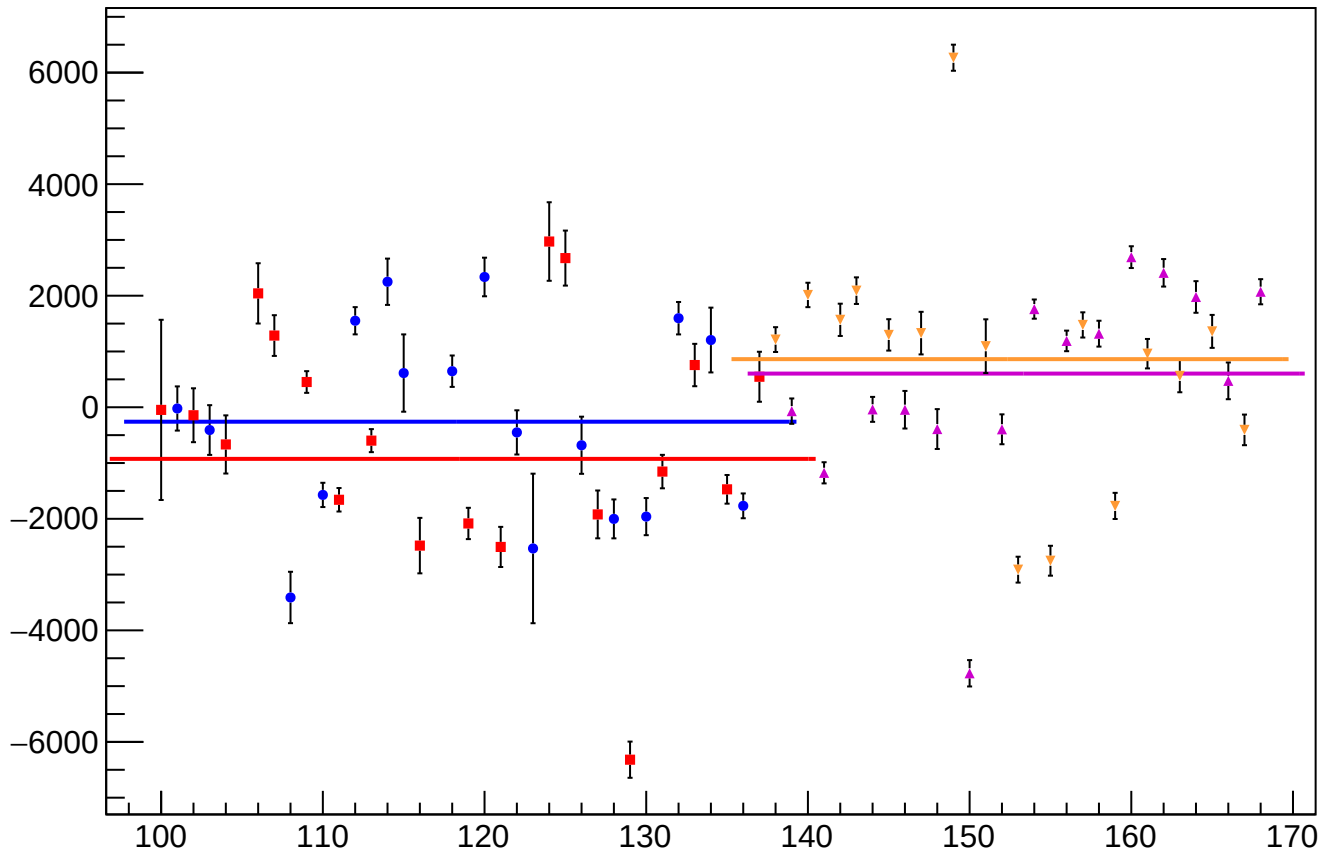
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 204.494+/-0.035 χ^2/NDF : 1702230.7/31

Out: 212.144+/-0.036 χ^2/NDF : 2149103.9/34

All: 208.231+/-0.025 χ^2/NDF : 3874478.1/66

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 862.450+/-65.432 χ^2/NDF :1205.5/15

Right Out: -925.534+/-75.503 χ^2/NDF : 581.9/18

Left In: 603.634+/-59.625 χ^2/NDF :945.5/14

Left: 721.051+/-44.072 χ^2/NDF : 2159.6/30

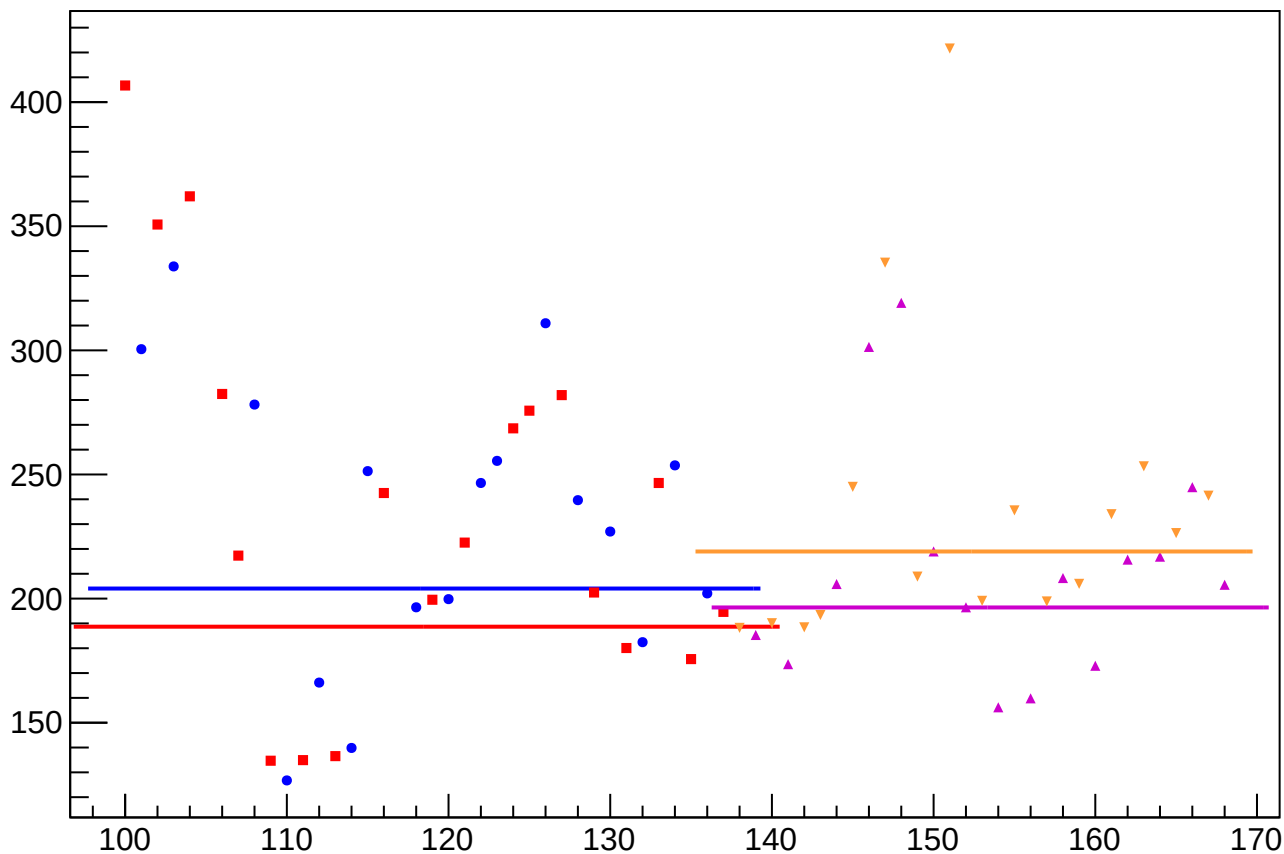
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 309.022+/-48.386 χ^2/NDF :1408.2/31

Out: 95.583+/-49.448 χ^2/NDF :2107.6/34

All: 204.619+/-34.583 χ^2/NDF : 3525.4/66

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 218.977+/-0.046 χ^2/NDF : 771236.0/15

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 196.427+/-0.042 χ^2/NDF : 776759.9/14

Left: 206.657+/-0.031 χ^2/NDF : 1677767.4/30

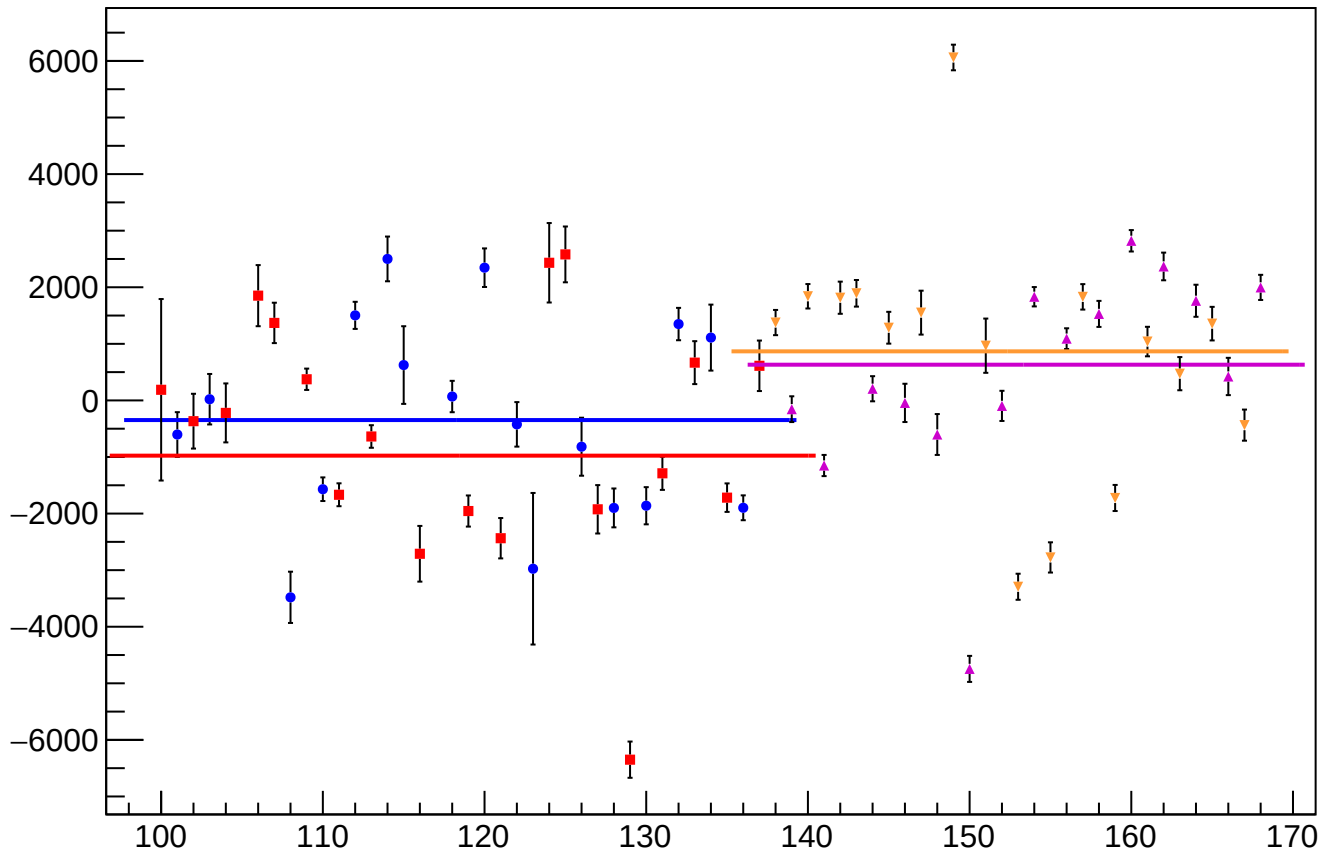
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 199.031+/-0.034 χ^2/NDF : 1656348.7/31

Out: 205.983+/-0.035 χ^2/NDF : 2206243.6/34

All: 202.431+/-0.024 χ^2/NDF : 3882788.1/66

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 $\chi^2/\text{NDF}: 399.1/16$

Left Out: 867.280 ± 64.891 $\chi^2/\text{NDF}: 1271.1/15$

Right Out: -976.286 ± 73.889 $\chi^2/\text{NDF}: 585.7/18$

Left In: 631.235 ± 59.039 $\chi^2/\text{NDF}: 984.4/14$

Left: 738.136 ± 43.670 $\chi^2/\text{NDF}: 2262.8/30$

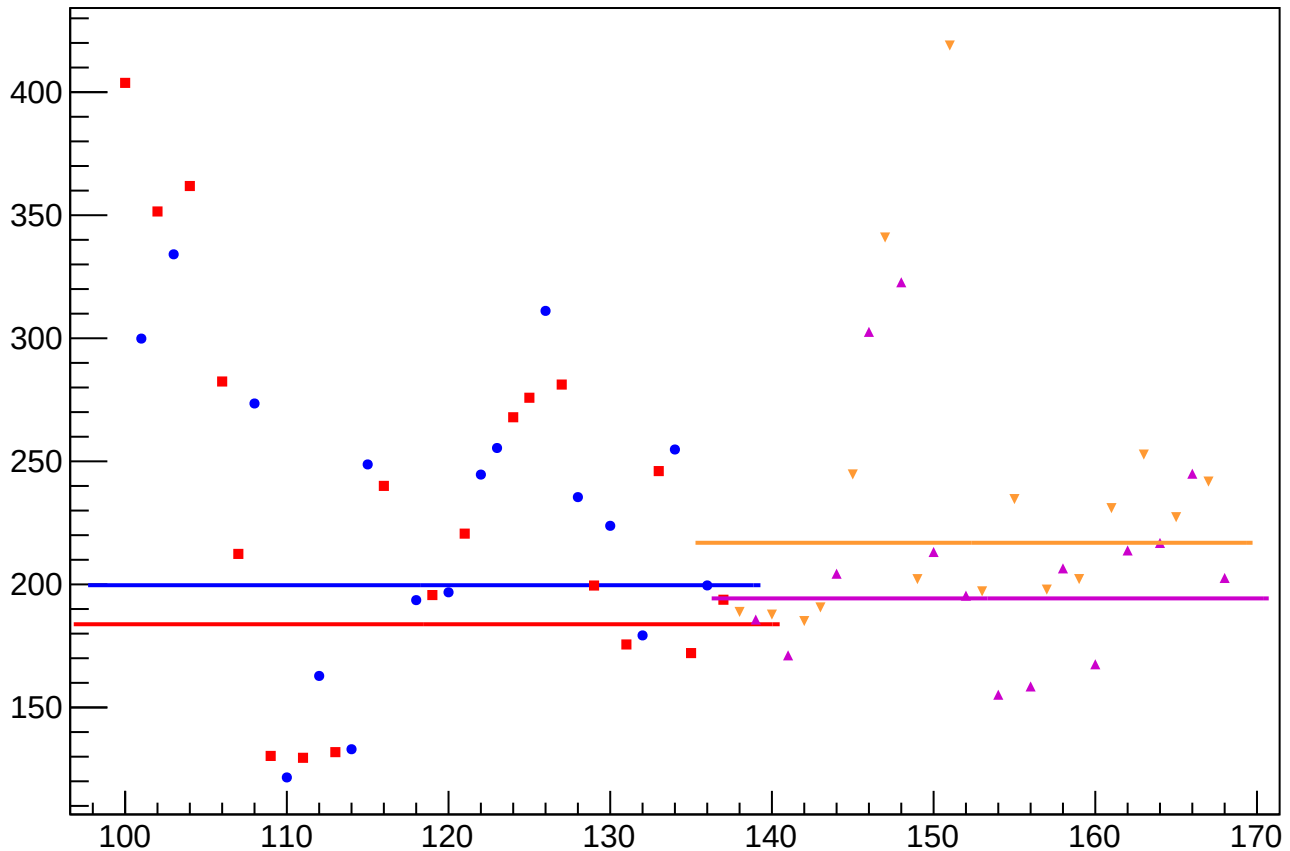
Right: -691.802 ± 54.685 $\chi^2/\text{NDF}: 1017.5/35$

In: 293.493 ± 47.775 $\chi^2/\text{NDF}: 1478.3/31$

Out: 64.520 ± 48.758 $\chi^2/\text{NDF}: 2208.2/34$

All: 181.337 ± 34.124 $\chi^2/\text{NDF}: 3697.8/66$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 216.913 $\pm$ 0.046 χ^2 /NDF: 806356.2/15

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 194.310 $\pm$ 0.042 χ^2 /NDF: 810778.3/14

Left: 204.547 $\pm$ 0.031 χ^2 /NDF: 1749898.9/30

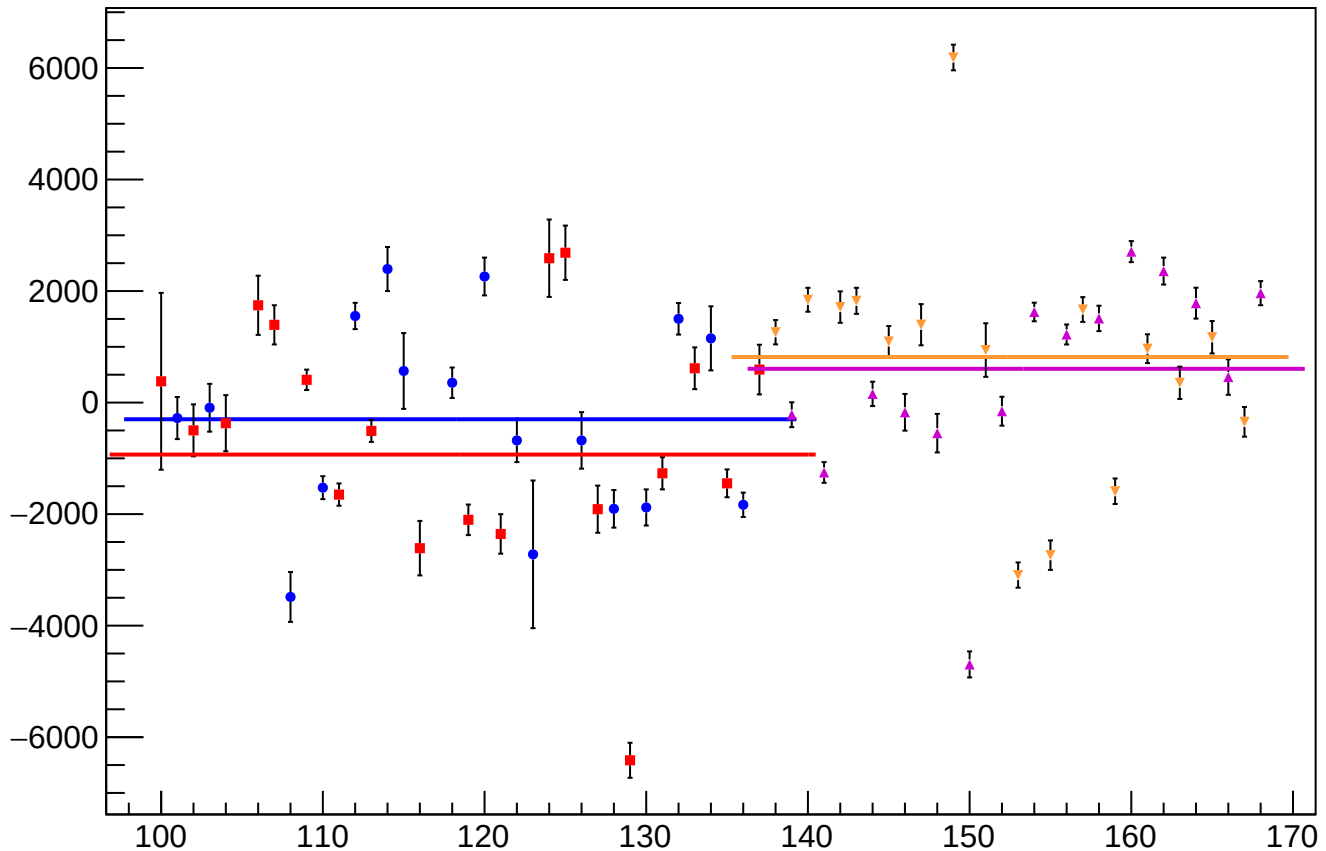
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 196.160 $\pm$ 0.034 χ^2 /NDF: 1759621.7/31

Out: 202.498 $\pm$ 0.034 χ^2 /NDF: 2382638.6/34

All: 199.264 $\pm$ 0.024 χ^2 /NDF: 4159503.1/66

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 817.215 ± 64.122 $\chi^2/\text{NDF}: 1232.1/15$

Right Out: -931.843 ± 72.751 $\chi^2/\text{NDF}: 614.8/18$

Left In: 605.581 ± 58.080 $\chi^2/\text{NDF}: 956.6/14$

Left: 700.959 ± 43.047 $\chi^2/\text{NDF}: 2194.7/30$

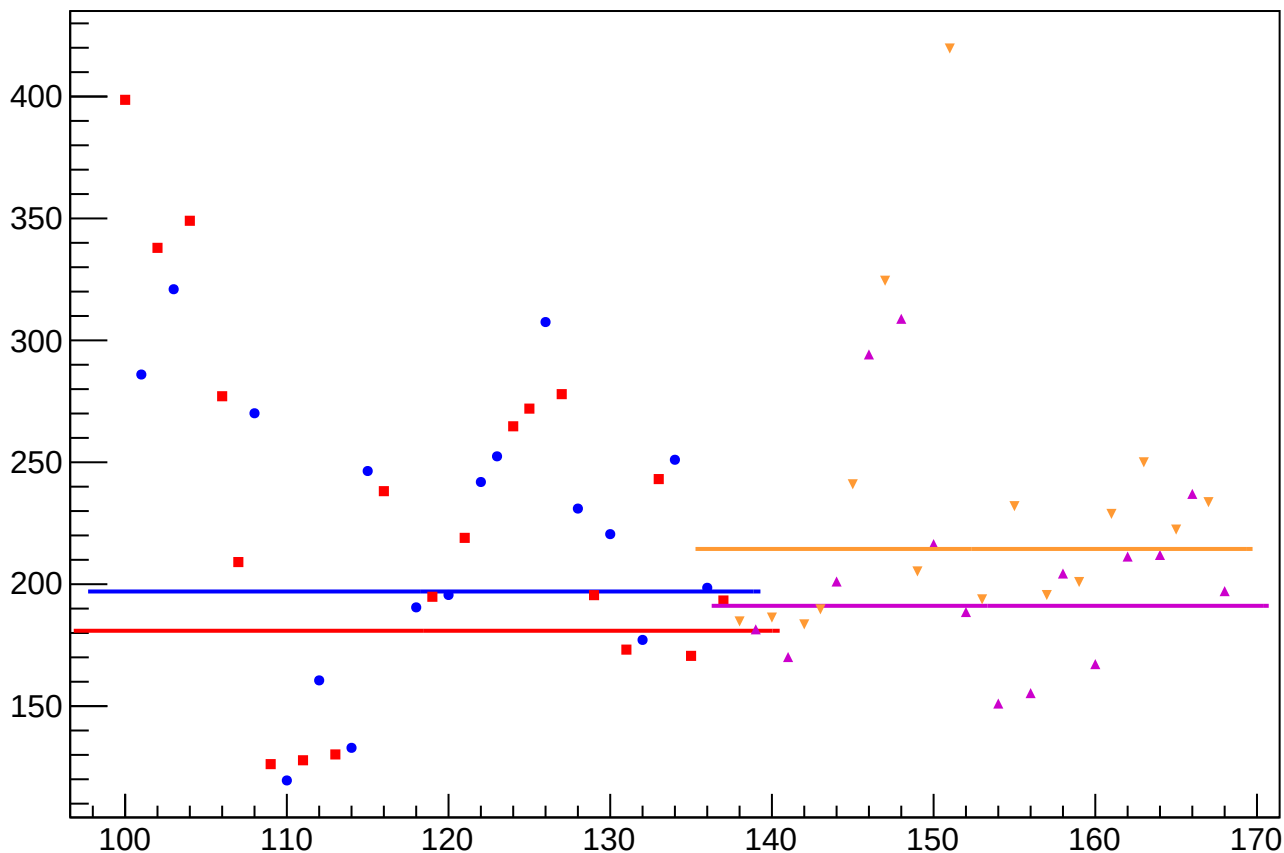
Right: -646.004 ± 53.873 $\chi^2/\text{NDF}: 1055.6/35$

In: 294.201 ± 47.033 $\chi^2/\text{NDF}: 1446.7/31$

Out: 52.510 ± 48.104 $\chi^2/\text{NDF}: 2172.2/34$

All: 176.078 ± 33.630 $\chi^2/\text{NDF}: 3631.8/66$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 214.460+/-0.045 χ^2/NDF : 777420.9/15

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 191.136+/-0.041 χ^2/NDF : 787275.3/14

Left: 201.648+/-0.030 χ^2/NDF : 1710053.3/30

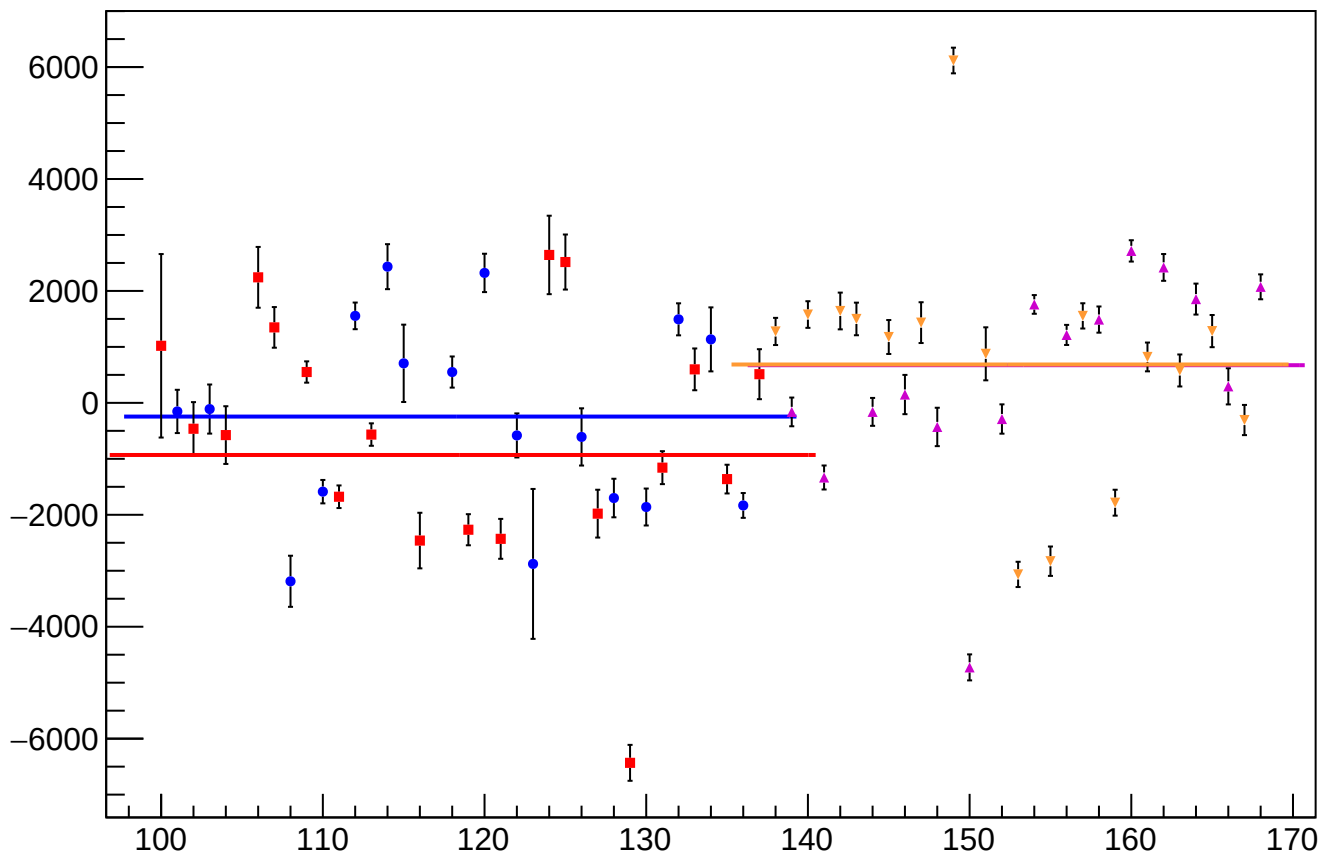
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 193.159+/-0.033 χ^2/NDF : 1706248.0/31

Out: 199.790+/-0.034 χ^2/NDF : 2362544.9/34

All: 196.400+/-0.024 χ^2/NDF : 4088219.5/66

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925+/-81.395 χ^2/NDF : 391.4/16

Left Out: 685.446+/-66.941 χ^2/NDF :1206.0/15

Right Out: -931.272+/-74.206 χ^2/NDF : 609.7/18

Left In: 672.867+/-60.226 χ^2/NDF :965.9/14

Left: 678.494+/-44.773 χ^2/NDF : 2172.0/30

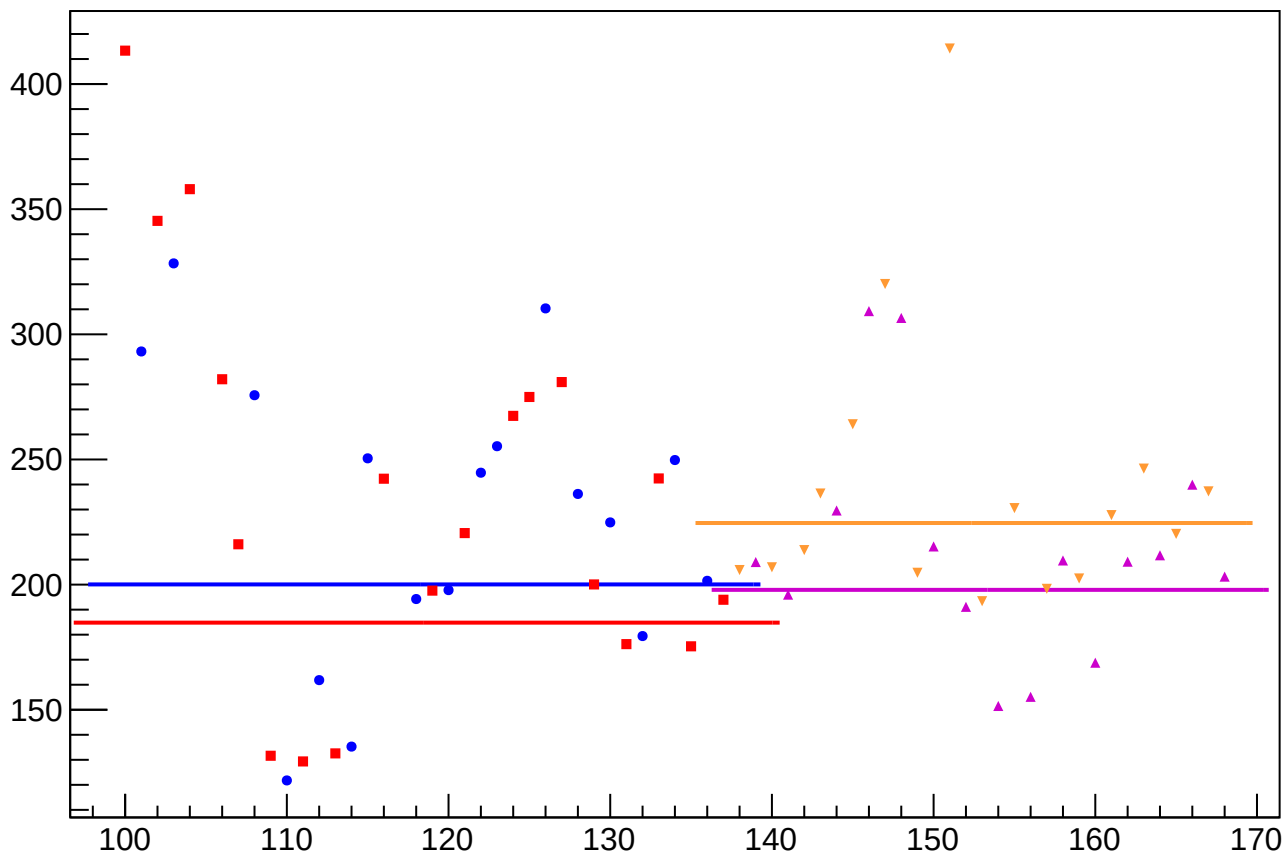
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 348.159+/-48.414 χ^2/NDF :1439.5/31

Out: -39.921+/-49.705 χ^2/NDF :2077.5/34

All: 159.223+/-34.681 χ^2/NDF : 3548.2/66

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 224.619 $\pm$ 0.047 χ^2 /NDF: 636566.0/15

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 197.906 $\pm$ 0.043 χ^2 /NDF: 814670.2/14

Left: 209.856 $\pm$ 0.032 χ^2 /NDF: 1627250.9/30

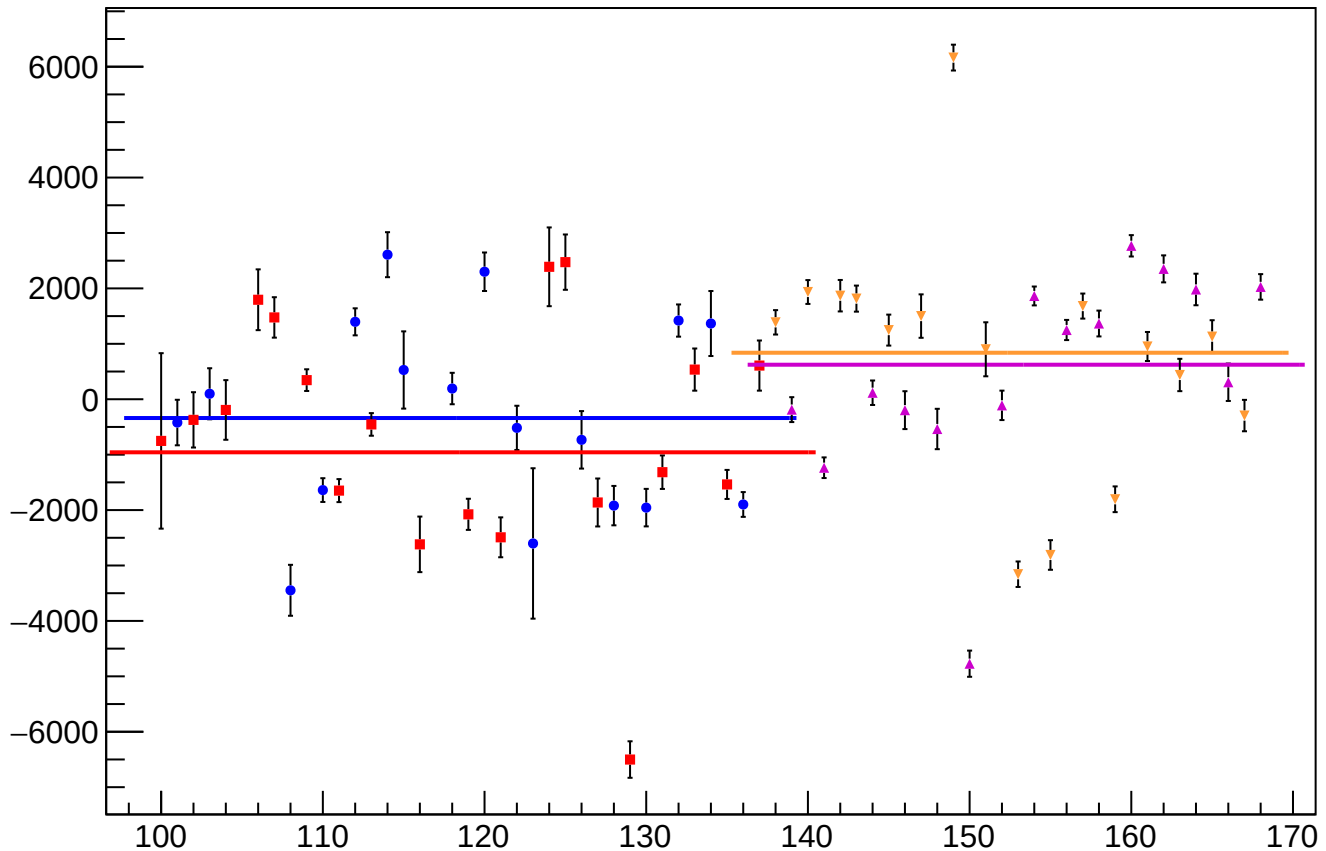
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 198.674 $\pm$ 0.034 χ^2 /NDF: 1733900.2/31

Out: 206.757 $\pm$ 0.035 χ^2 /NDF: 2272218.1/34

All: 202.609 $\pm$ 0.025 χ^2 /NDF: 4033255.1/66

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 ± 83.123 $\chi^2/\text{NDF}: 389.5/16$

Left Out: 839.029 ± 65.115 $\chi^2/\text{NDF}: 1239.8/15$

Right Out: -957.615 ± 75.749 $\chi^2/\text{NDF}: 570.3/18$

Left In: 622.820 ± 59.324 $\chi^2/\text{NDF}: 972.2/14$

Left: 720.884 ± 43.853 $\chi^2/\text{NDF}: 2218.1/30$

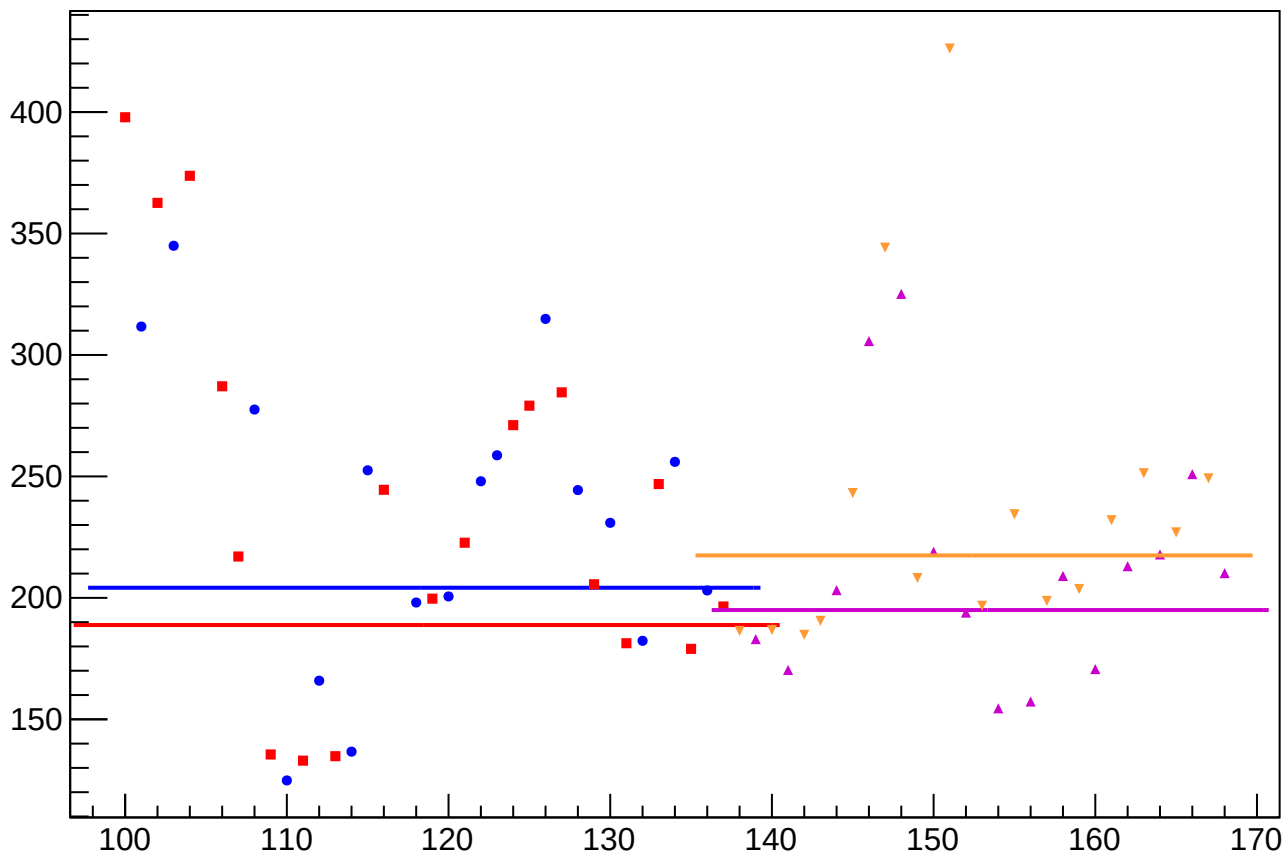
Right: -676.943 ± 55.988 $\chi^2/\text{NDF}: 990.0/35$

In: 298.252 ± 48.287 $\chi^2/\text{NDF}: 1450.4/31$

Out: 75.569 ± 49.378 $\chi^2/\text{NDF}: 2133.6/34$

All: 189.398 ± 34.524 $\chi^2/\text{NDF}: 3594.4/66$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 $\pm$ 0.059 χ^2 /NDF: 947438.5/16

Left Out: 217.475 $\pm$ 0.046 χ^2 /NDF: 834635.4/15

Right Out: 188.821 $\pm$ 0.054 χ^2 /NDF: 1314891.2/18

Left In: 194.988 $\pm$ 0.042 χ^2 /NDF: 854714.1/14

Left: 205.187 $\pm$ 0.031 χ^2 /NDF: 1819691.8/30

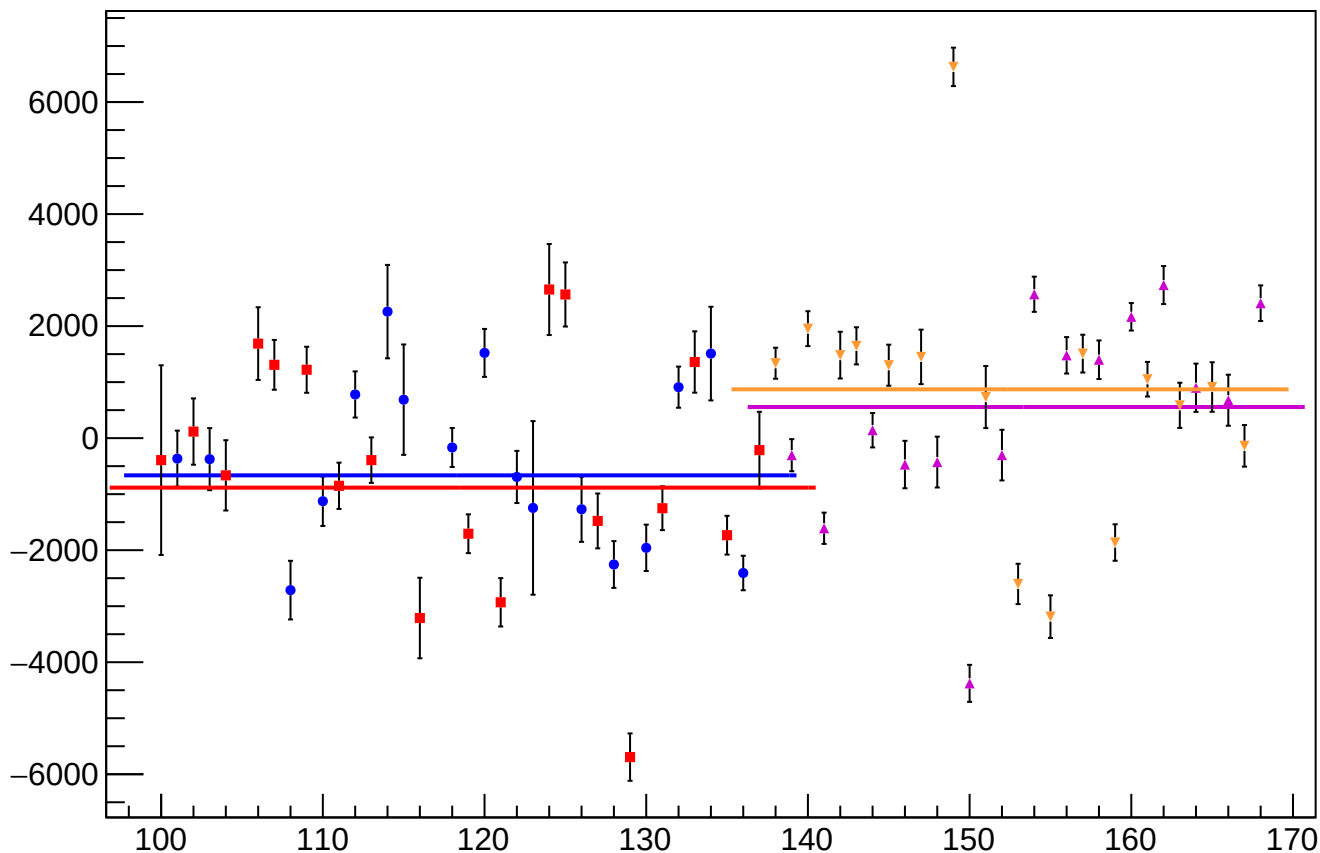
Right: 195.787 $\pm$ 0.040 χ^2 /NDF: 2299610.3/35

In: 198.088 $\pm$ 0.034 χ^2 /NDF: 1818340.3/31

Out: 205.299 $\pm$ 0.035 χ^2 /NDF: 2314102.1/34

All: 201.613 $\pm$ 0.024 χ^2 /NDF: 4154243.7/66

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 871.390+/-90.009 χ^2/NDF : 596.4/15

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 555.983+/-86.581 χ^2/NDF : 481.8/14

Left: 707.566+/-62.399 χ^2/NDF : 1084.5/30

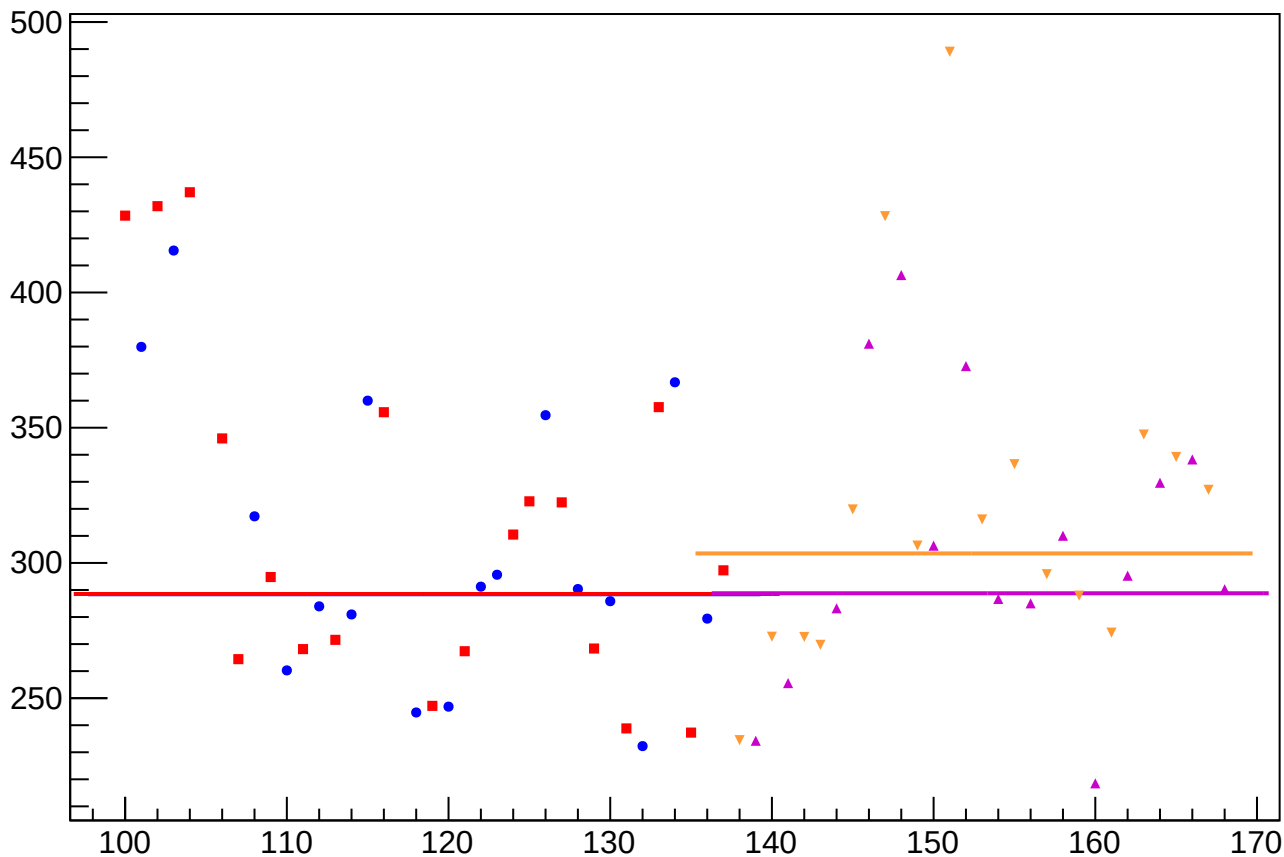
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: 109.304+/-68.938 χ^2/NDF : 708.8/31

Out: 174.373+/-69.881 χ^2/NDF : 1067.4/34

All: 141.397+/-49.077 χ^2/NDF : 1776.7/66

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 ± 0.081 $\chi^2/\text{NDF}: 339820.0/16$

Left Out: 303.520 ± 0.064 $\chi^2/\text{NDF}: 620721.1/15$

Right Out: 288.522 ± 0.078 $\chi^2/\text{NDF}: 455410.1/18$

Left In: 288.791 ± 0.061 $\chi^2/\text{NDF}: 619295.2/14$

Left: 295.870 ± 0.044 $\chi^2/\text{NDF}: 1267829.8/30$

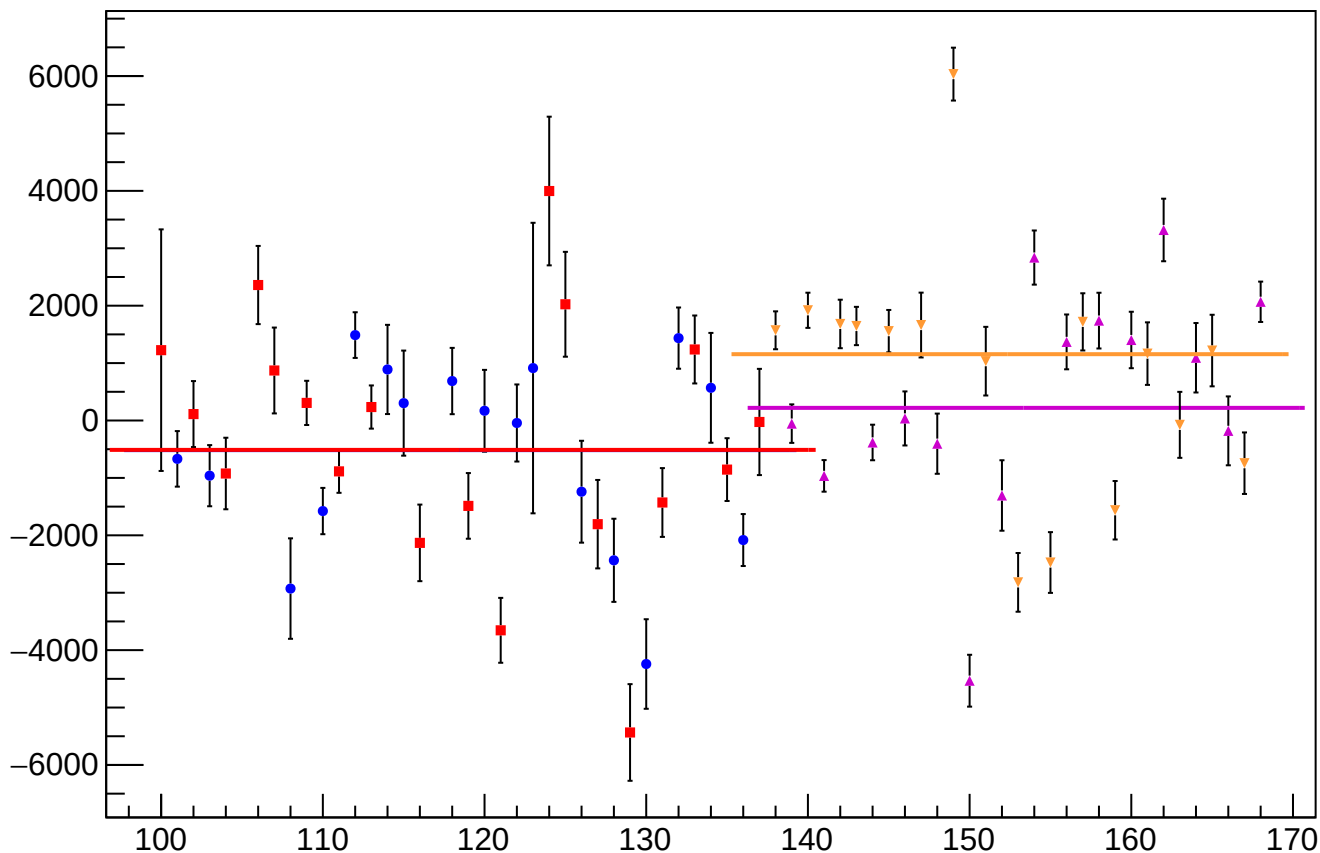
Right: 288.476 ± 0.056 $\chi^2/\text{NDF}: 795230.9/35$

In: 288.658 ± 0.049 $\chi^2/\text{NDF}: 959128.1/31$

Out: 297.562 ± 0.049 $\chi^2/\text{NDF}: 1098188.6/34$

All: 293.050 ± 0.035 $\chi^2/\text{NDF}: 2073770.1/66$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894+/-147.326 χ^2/NDF : 108.0/16

Left Out: 1155.243+/-111.697 χ^2/NDF : 280.1/15

Right Out: -511.851+/-135.798 χ^2/NDF : 141.3/18

Left In: 220.153+/-110.121 χ^2/NDF : 256.2/14

Left: 681.058+/-78.419 χ^2/NDF : 571.8/30

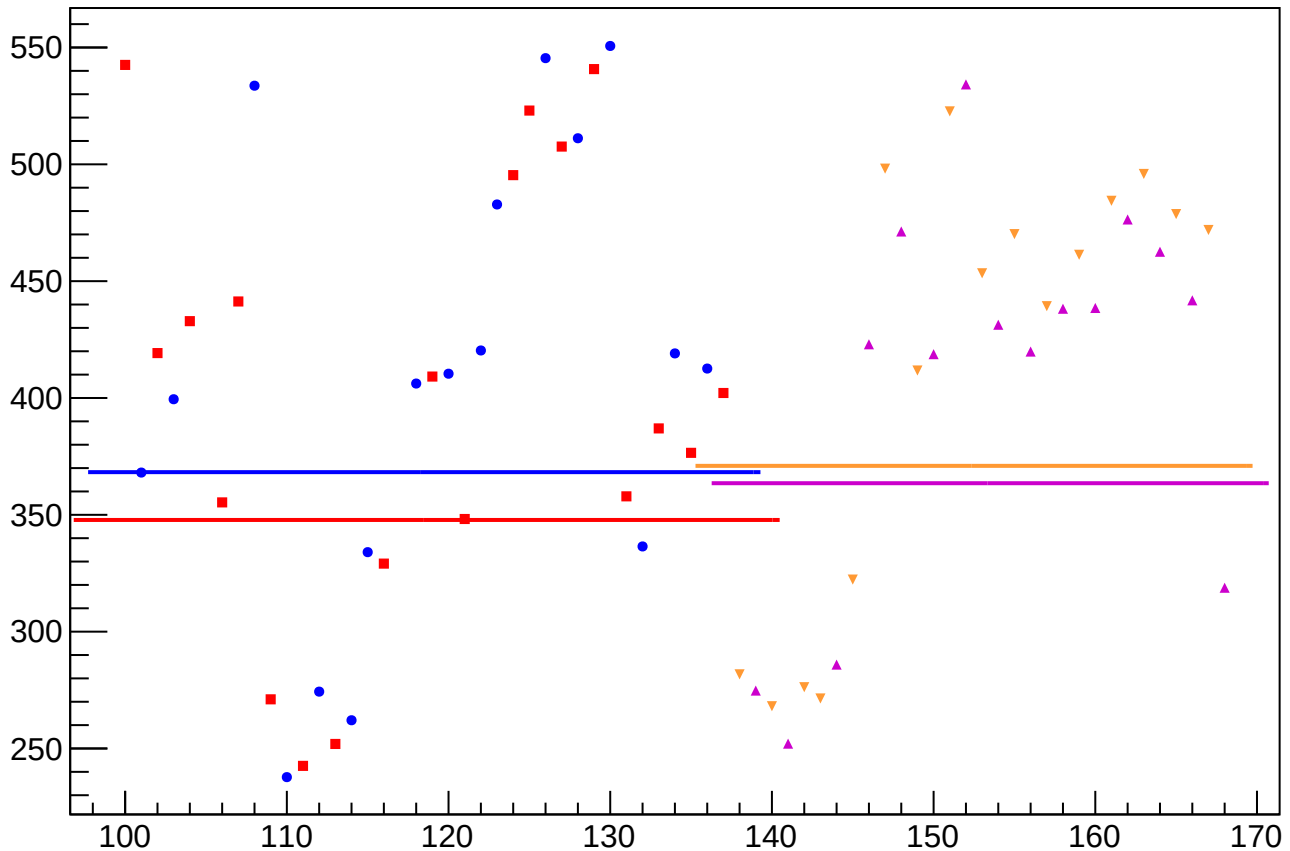
Right: -513.708+/-99.851 χ^2/NDF : 249.3/35

In: -43.677+/-88.204 χ^2/NDF : 380.2/31

Out: 482.517+/-86.265 χ^2/NDF : 511.3/34

All: 225.269+/-61.673 χ^2/NDF : 909.7/66

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 370.957+/-0.079 χ^2/NDF : 1465901.5/15

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 363.530+/-0.078 χ^2/NDF : 1263598.6/14

Left: 367.191+/-0.055 χ^2/NDF : 2733984.0/30

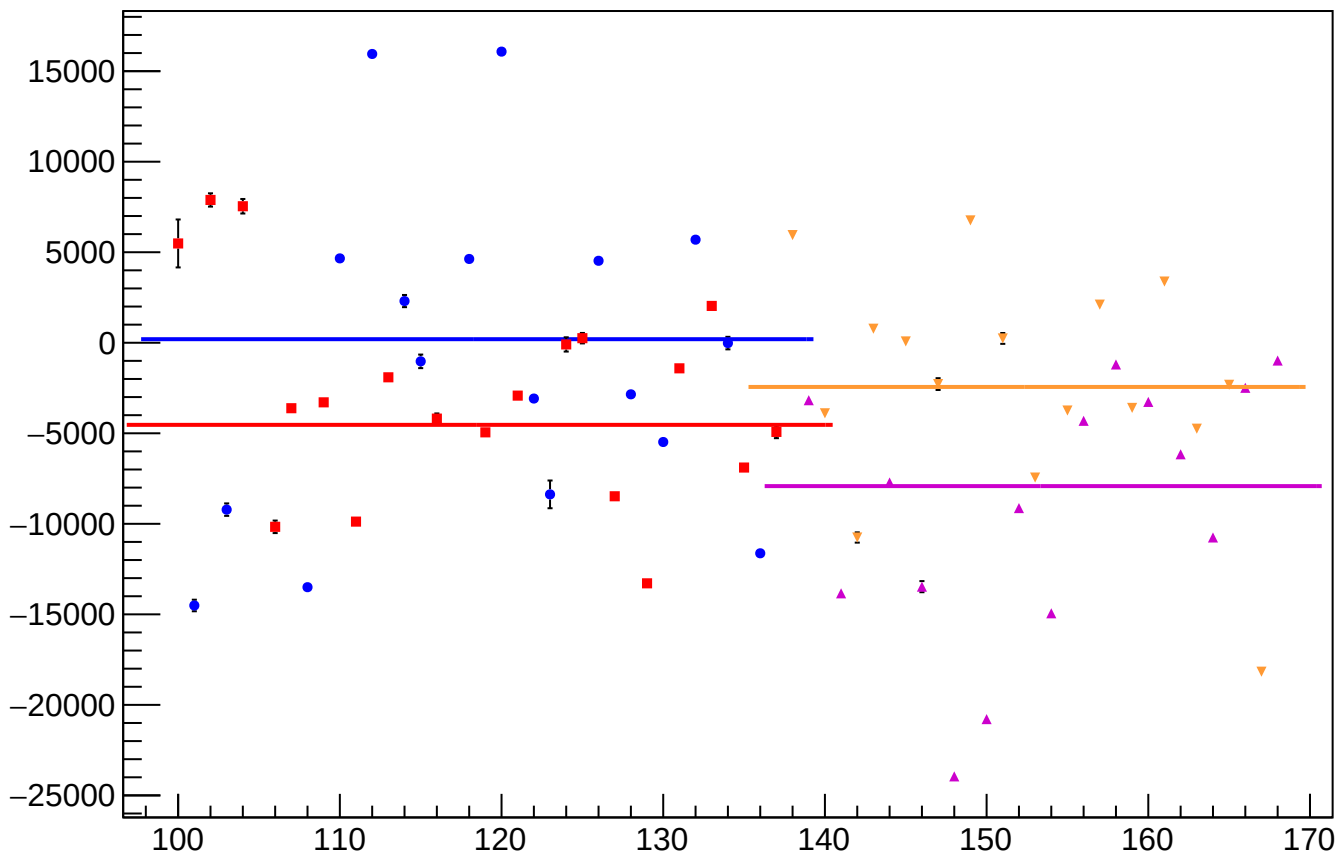
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 365.227+/-0.062 χ^2/NDF : 2035040.0/31

Out: 361.613+/-0.061 χ^2/NDF : 2322446.8/34

All: 363.380+/-0.044 χ^2/NDF : 4359202.7/66

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -2440.246 ± 50.525 $\chi^2/\text{NDF}: 13671.5/15$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7917.275 ± 51.177 $\chi^2/\text{NDF}: 16462.4/14$

Left: -5143.657 ± 35.955 $\chi^2/\text{NDF}: 35934.2/30$

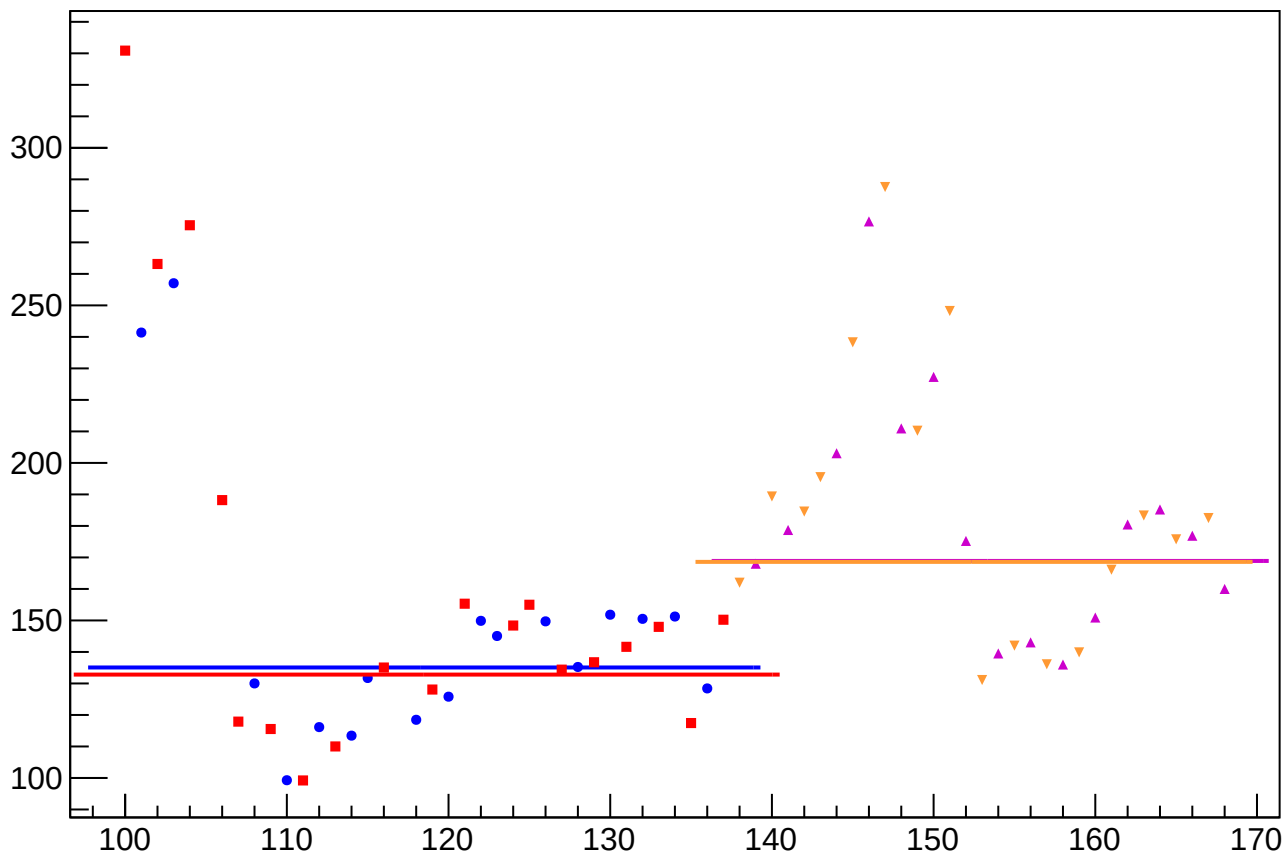
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4137.116 ± 37.402 $\chi^2/\text{NDF}: 58832.2/31$

Out: -3447.859 ± 36.392 $\chi^2/\text{NDF}: 21975.3/34$

All: -3783.052 ± 26.083 $\chi^2/\text{NDF}: 80981.9/66$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 168.591 $\pm$ 0.036 χ^2 /NDF:1012860.5/15

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 168.885 $\pm$ 0.036 χ^2 /NDF:736712.3/14

Left: 168.736 $\pm$ 0.025 χ^2 /NDF: 1749606.3/30

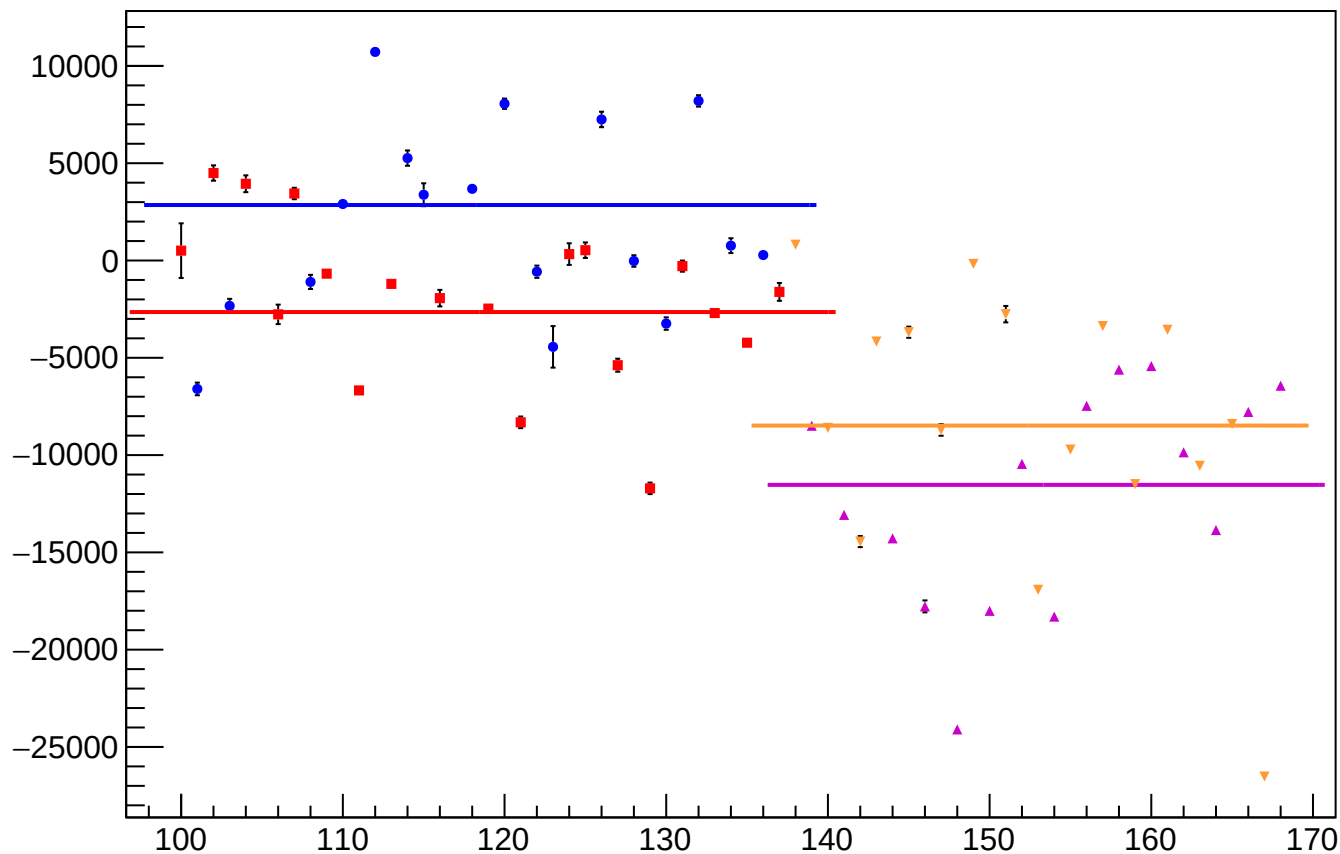
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.133 $\pm$ 0.026 χ^2 /NDF:1802158.6/31

Out: 151.376 $\pm$ 0.026 χ^2 /NDF:2326543.1/34

All: 152.230 $\pm$ 0.018 χ^2 /NDF: 4130968.3/66

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8482.959+/-57.447 χ^2/NDF :15098.2/15

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11532.072+/-51.711 χ^2/NDF :10481.7/14

Left: -10167.293+/-38.434 χ^2/NDF : 27136.1/30

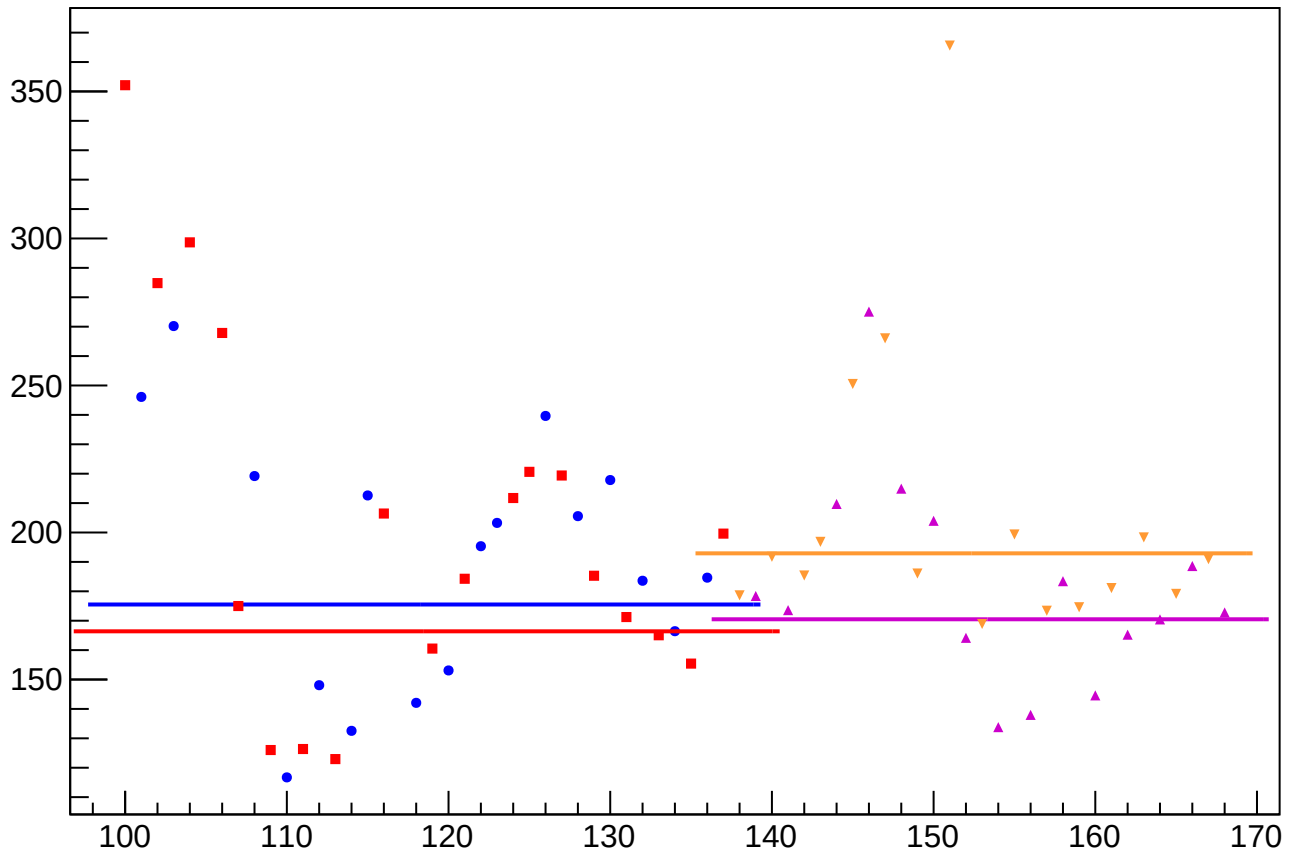
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6524.040+/-41.749 χ^2/NDF :41597.8/31

Out: -5956.617+/-43.255 χ^2/NDF :22739.8/34

All: -6250.378+/-30.039 χ^2/NDF : 64426.7/66

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.912+/-0.041 χ^2/NDF : 628067.8/15

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 170.488+/-0.037 χ^2/NDF : 686618.1/14

Left: 180.525+/-0.027 χ^2/NDF : 1483024.6/30

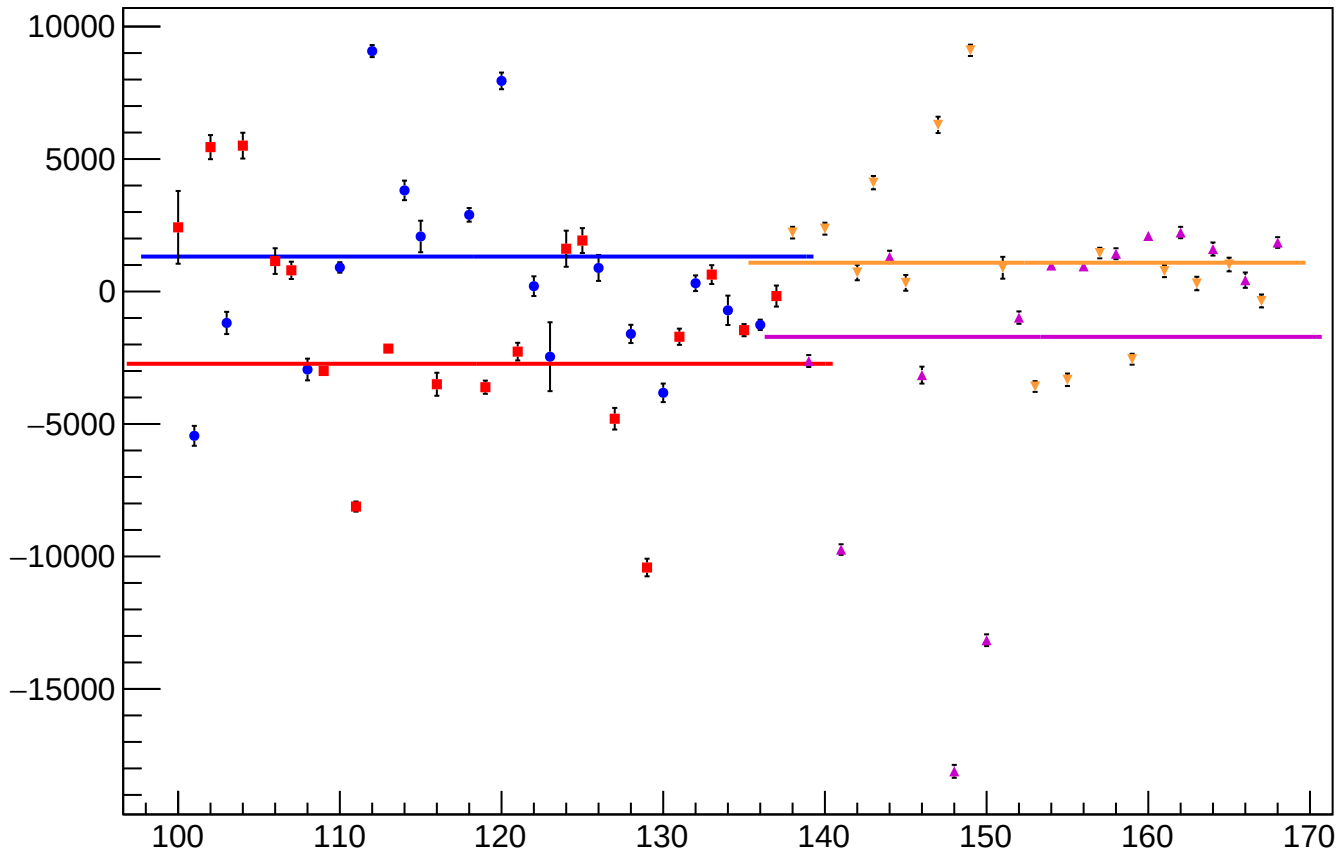
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.238+/-0.030 χ^2/NDF : 1382840.6/31

Out: 181.428+/-0.031 χ^2/NDF : 1742165.0/34

All: 176.670+/-0.021 χ^2/NDF : 3171743.3/66

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 +/- 77.146 χ^2/NDF : 2667.0/16

Left Out: 1086.184 +/- 60.371 χ^2/NDF : 3154.3/15

Right Out: -2727.798 +/- 70.029 χ^2/NDF : 2495.9/18

Left In: -1711.785 +/- 54.082 χ^2/NDF : 11211.4/14

Left: -466.095 +/- 40.282 χ^2/NDF : 15557.3/30

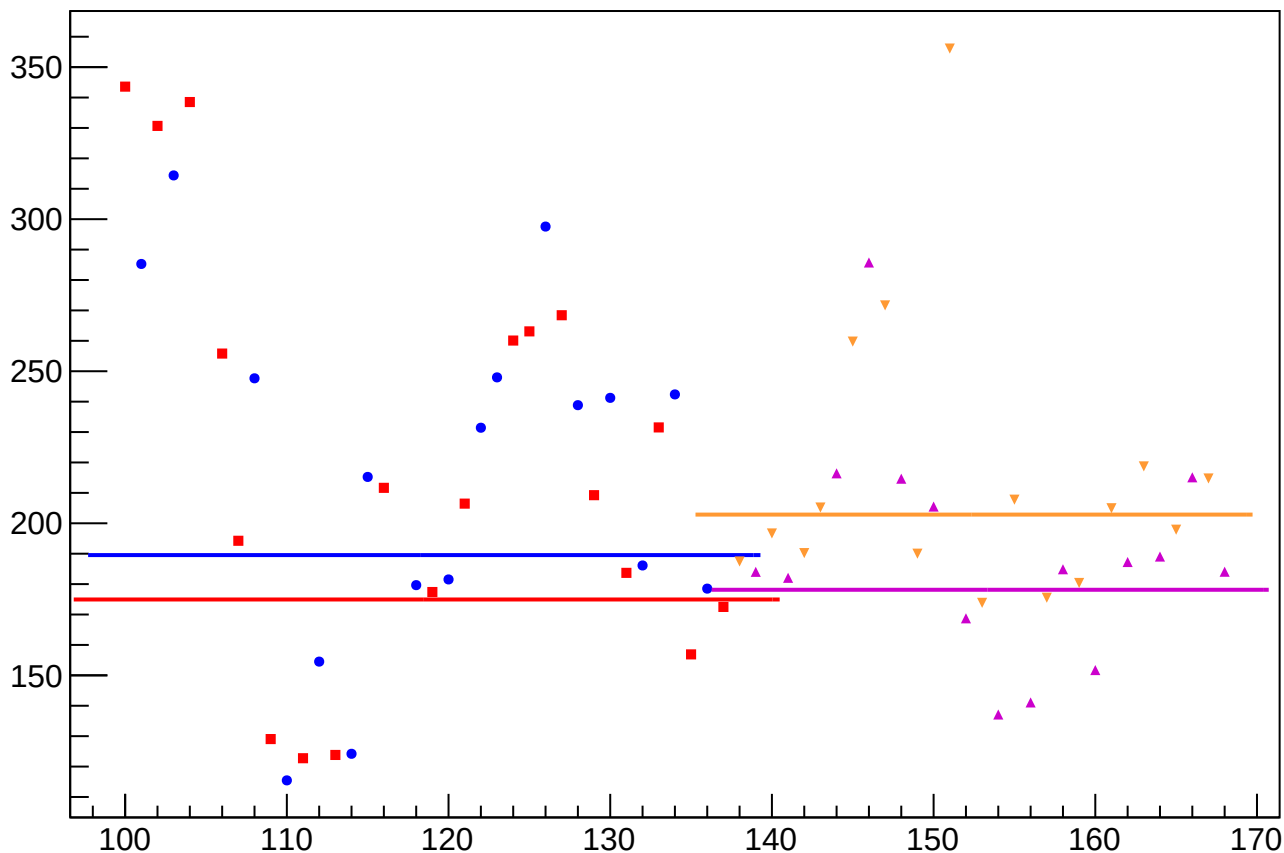
Right: -899.614 +/- 51.852 χ^2/NDF : 6671.5/35

In: -713.101 +/- 44.284 χ^2/NDF : 14913.2/31

Out: -539.875 +/- 45.725 χ^2/NDF : 7351.8/34

All: -629.262 +/- 31.811 χ^2/NDF : 22272.4/66

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 202.860+/-0.043 χ^2/NDF : 587933.9/15

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 178.137+/-0.038 χ^2/NDF : 702448.8/14

Left: 189.144+/-0.028 χ^2/NDF : 1476463.1/30

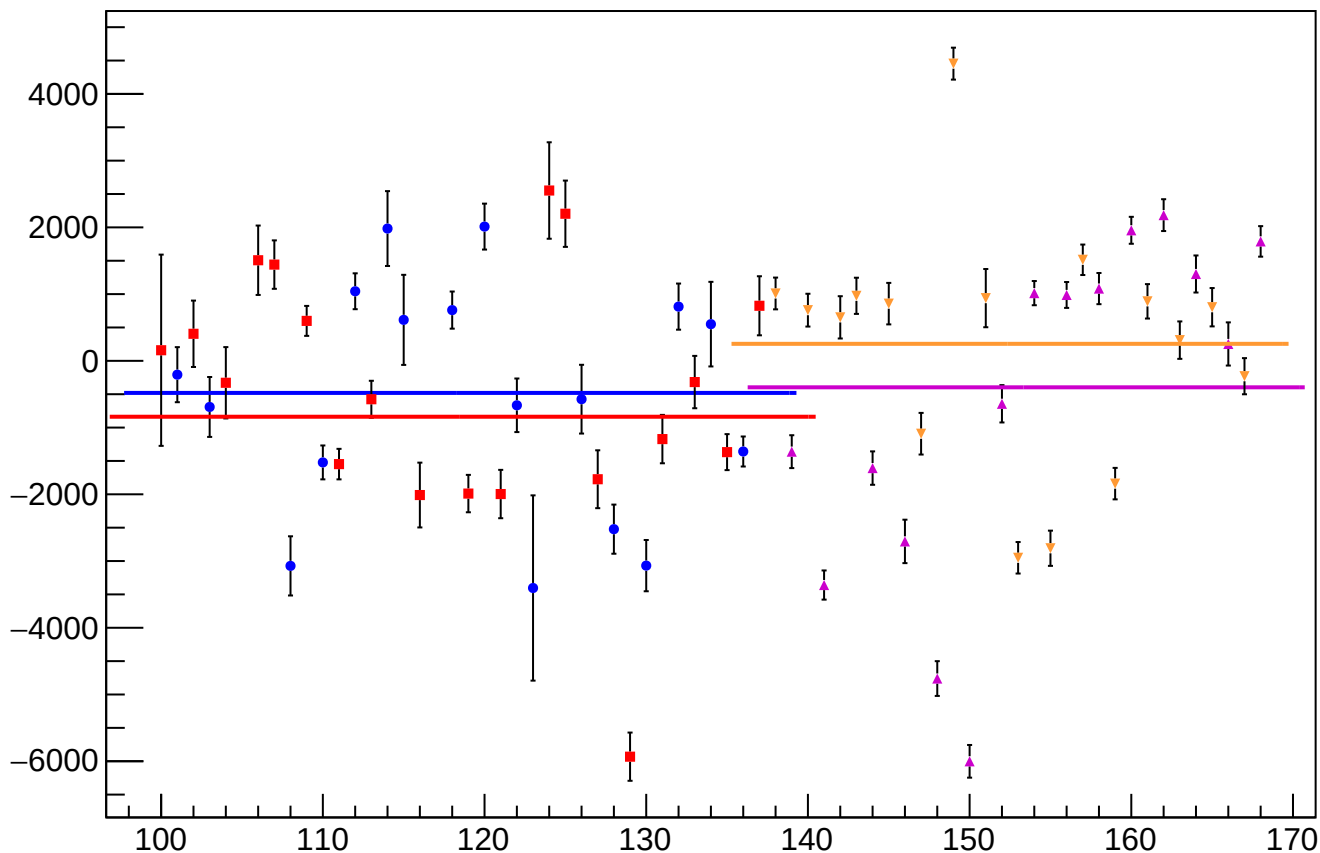
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 181.896+/-0.031 χ^2/NDF : 1712515.0/31

Out: 190.958+/-0.032 χ^2/NDF : 2067363.3/34

All: 186.282+/-0.022 χ^2/NDF : 3820415.0/66

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 254.970±/66.806 χ^2/NDF : 797.2/15

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -396.715±/61.304 χ^2/NDF : 1615.2/14

Left: -98.809±/45.169 χ^2/NDF : 2464.1/30

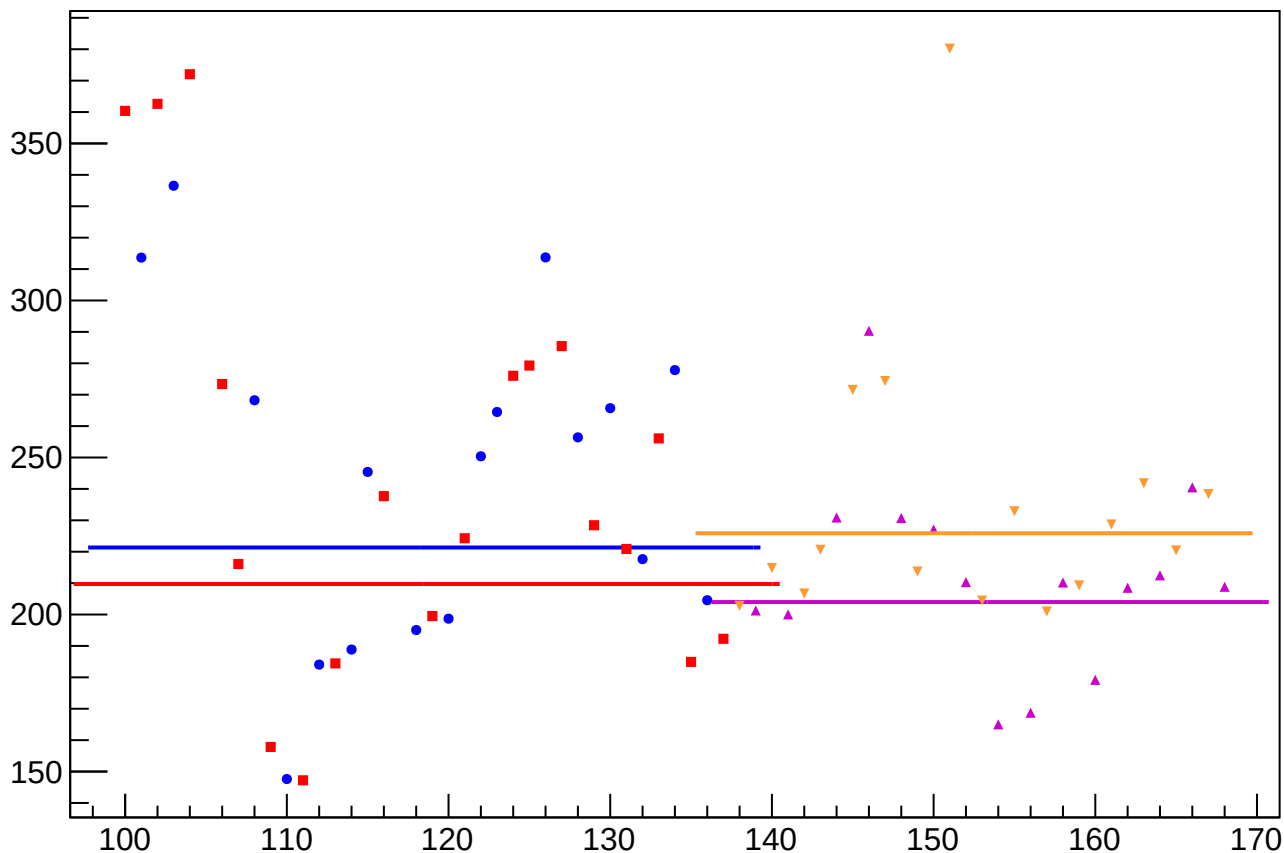
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -423.850±/50.420 χ^2/NDF : 1906.5/31

Out: -179.294±/51.854 χ^2/NDF : 1338.8/34

All: -305.000±/36.149 χ^2/NDF : 3256.7/66

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 225.888 $\pm$ 0.047 χ^2 /NDF: 440939.8/15

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 203.967 $\pm$ 0.043 χ^2 /NDF: 423622.4/14

Left: 213.988 $\pm$ 0.032 χ^2 /NDF: 981457.8/30

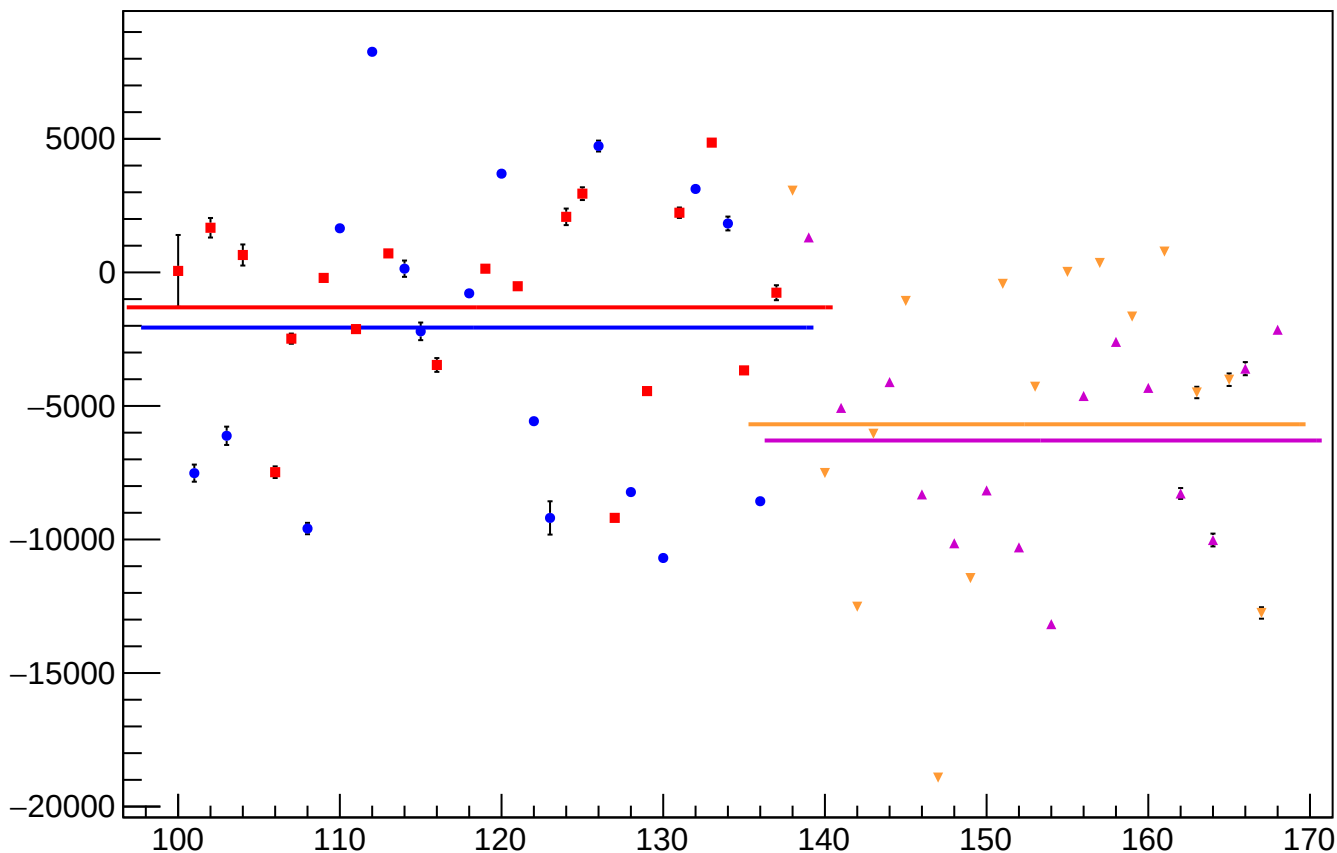
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 209.589 $\pm$ 0.036 χ^2 /NDF: 1121291.0/31

Out: 219.459 $\pm$ 0.037 χ^2 /NDF: 1371443.8/34

All: 214.386 $\pm$ 0.026 χ^2 /NDF: 2529982.8/66

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -5686.485+/-37.391 χ^2/NDF : 29316.8/15

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -6293.907+/-38.085 χ^2/NDF : 9629.0/14

Left: -5984.613+/-26.681 χ^2/NDF : 39075.3/30

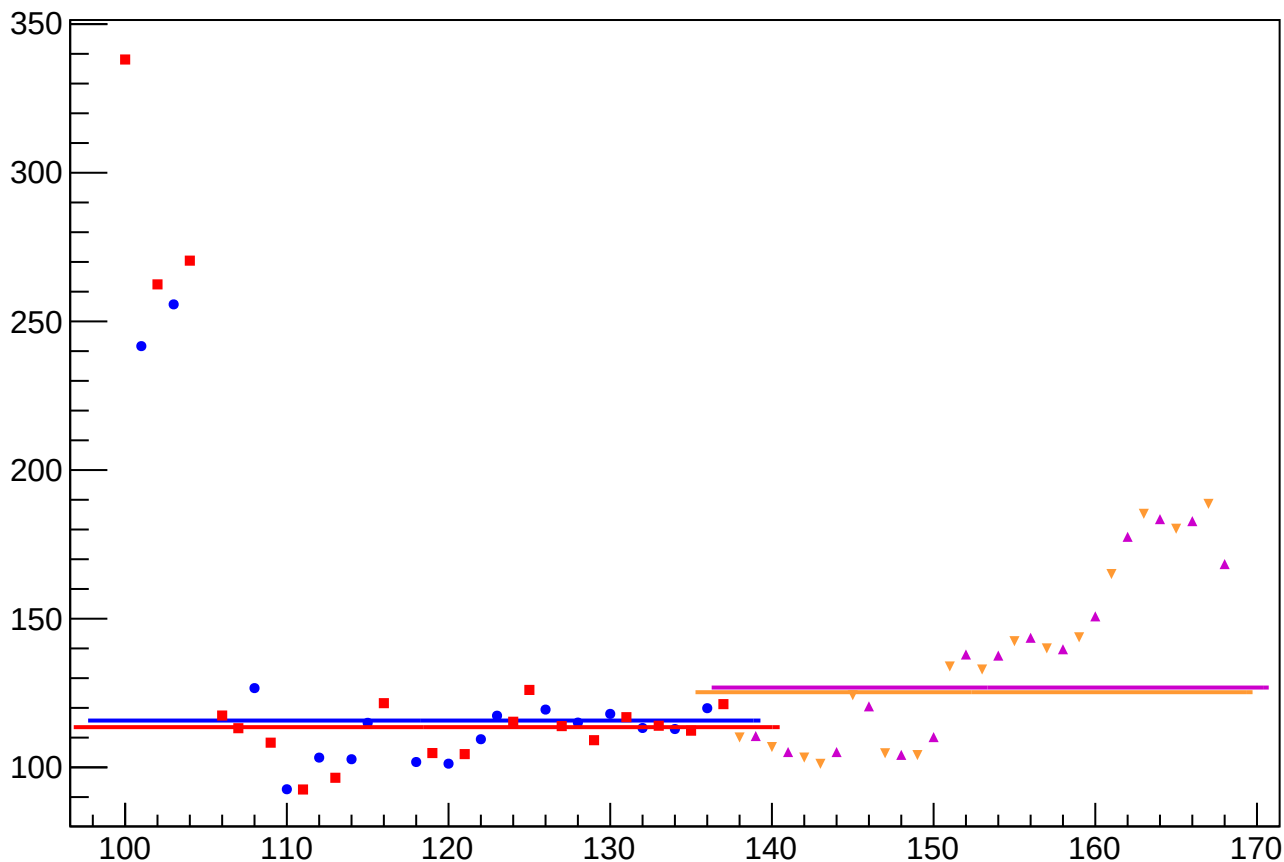
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4631.623+/-29.670 χ^2/NDF : 31008.7/31

Out: -3898.457+/-28.759 χ^2/NDF : 40810.3/34

All: -4253.617+/-20.650 χ^2/NDF : 72133.8/66

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 125.275 $\pm$ 0.026 χ^2 /NDF: 917634.8/15

Right Out: 113.519 $\pm$ 0.032 χ^2 /NDF: 796640.6/18

Left In: 126.842 $\pm$ 0.027 χ^2 /NDF: 823833.5/14

Left: 126.044 $\pm$ 0.019 χ^2 /NDF: 1743191.7/30

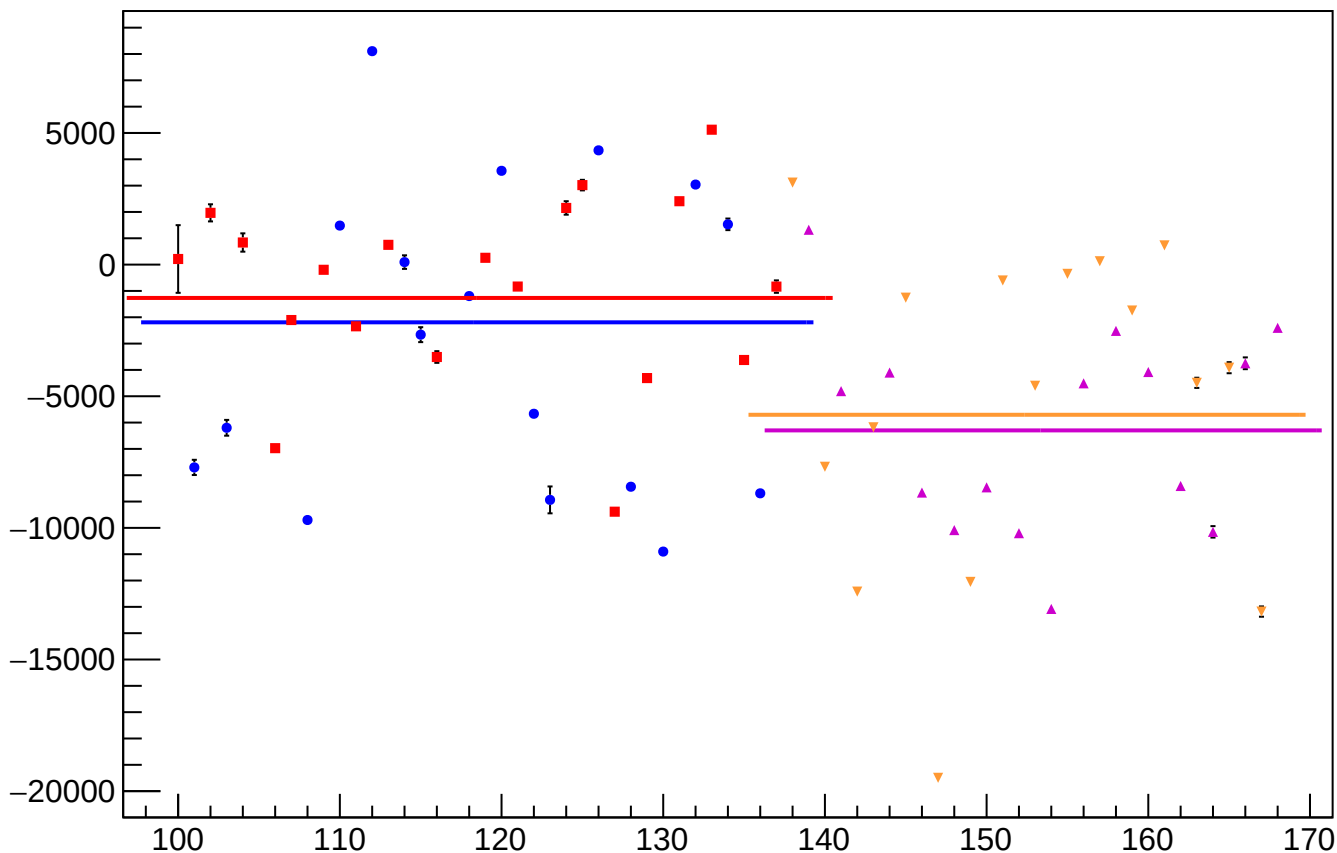
Right: 114.574 $\pm$ 0.023 χ^2 /NDF: 1542972.7/35

In: 122.478 $\pm$ 0.021 χ^2 /NDF: 1634654.8/31

Out: 120.474 $\pm$ 0.020 χ^2 /NDF: 1795027.0/34

All: 121.445 $\pm$ 0.015 χ^2 /NDF: 3434387.3/66

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -5704.076 ± 33.832 $\chi^2/\text{NDF}: 35788.2/15$

Right Out: -1266.189 ± 38.048 $\chi^2/\text{NDF}: 8550.5/18$

Left In: -6297.100 ± 34.864 $\chi^2/\text{NDF}: 11918.6/14$

Left: -5991.681 ± 24.279 $\chi^2/\text{NDF}: 47855.8/30$

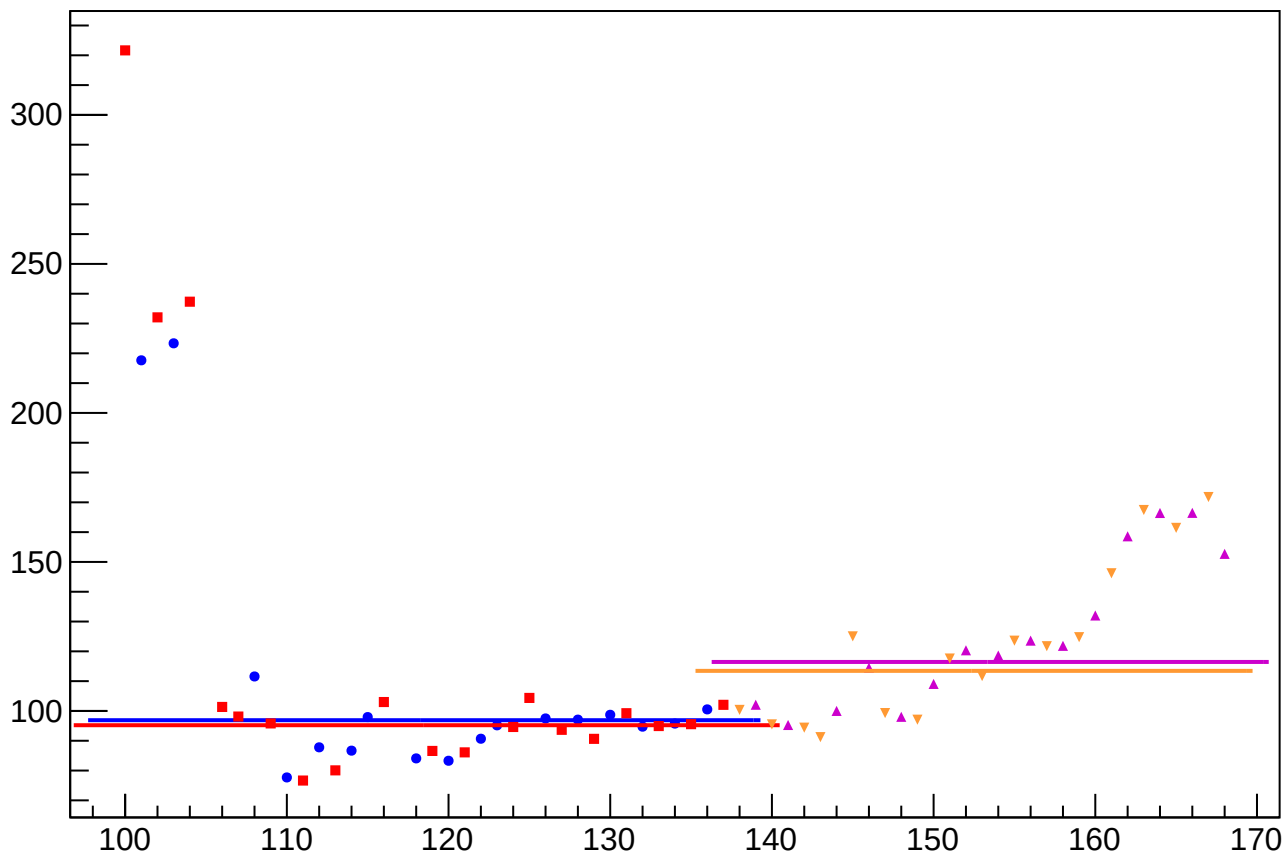
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4522.187 ± 26.266 $\chi^2/\text{NDF}: 40726.1/31$

Out: -3744.556 ± 25.282 $\chi^2/\text{NDF}: 51936.3/34$

All: -4118.539 ± 18.215 $\chi^2/\text{NDF}: 93117.4/66$

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894 ± 0.028 $\chi^2/\text{NDF}: 817229.9/16$

Left Out: 113.452 ± 0.024 $\chi^2/\text{NDF}: 824669.3/15$

Right Out: 95.213 ± 0.027 $\chi^2/\text{NDF}: 859809.7/18$

Left In: 116.441 ± 0.025 $\chi^2/\text{NDF}: 654484.8/14$

Left: 114.901 ± 0.017 $\chi^2/\text{NDF}: 1486726.5/30$

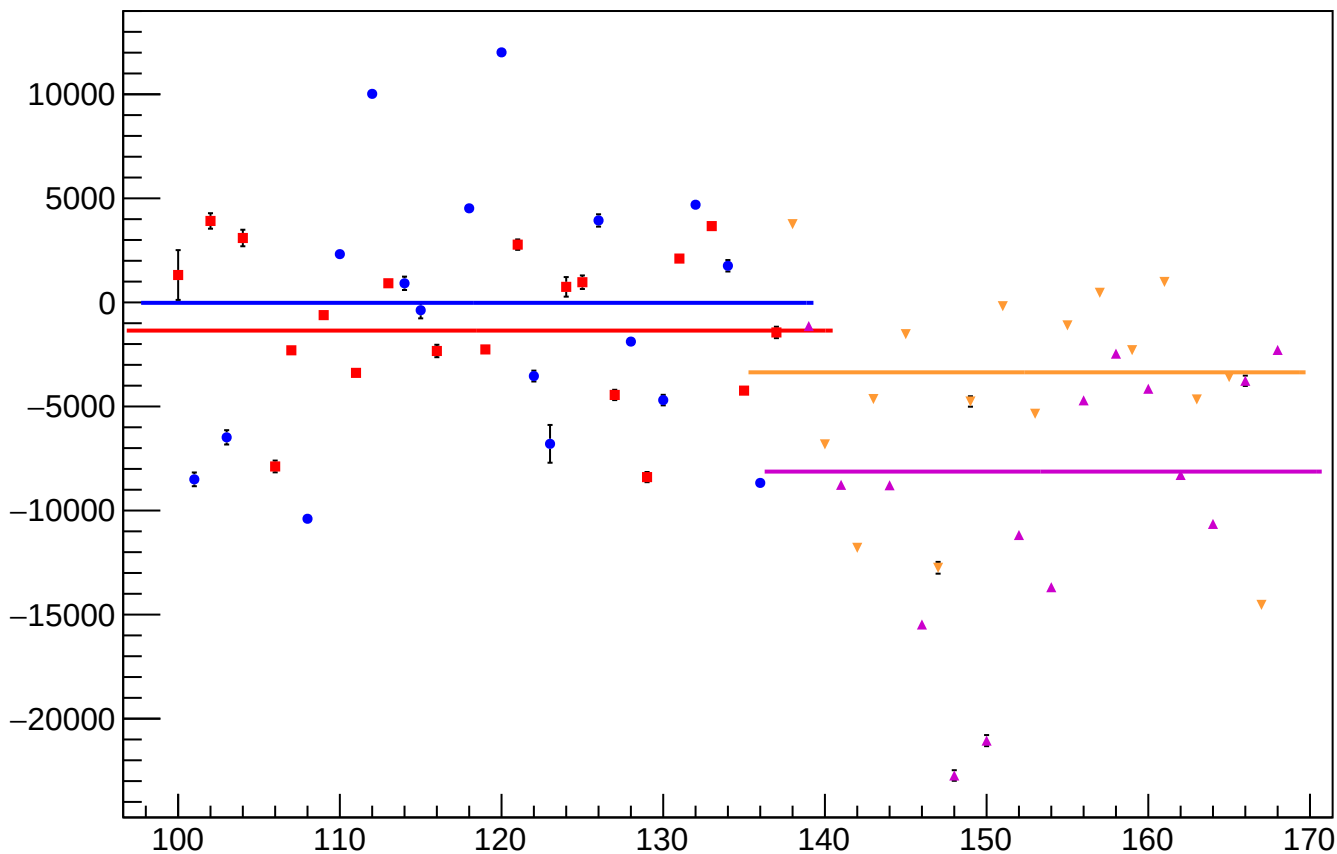
Right: 96.013 ± 0.019 $\chi^2/\text{NDF}: 1678895.4/35$

In: 107.989 ± 0.019 $\chi^2/\text{NDF}: 1743561.3/31$

Out: 105.399 ± 0.018 $\chi^2/\text{NDF}: 1941110.2/34$

All: 106.644 ± 0.013 $\chi^2/\text{NDF}: 3694766.0/66$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 χ^2/NDF : 16361.0/16

Left Out: -3359.105 ± 47.038 χ^2/NDF : 9513.8/15

Right Out: -1353.461 ± 52.367 χ^2/NDF : 3837.2/18

Left In: -8128.480 ± 48.849 χ^2/NDF : 13429.5/14

Left: -5653.746 ± 33.883 χ^2/NDF : 27889.5/30

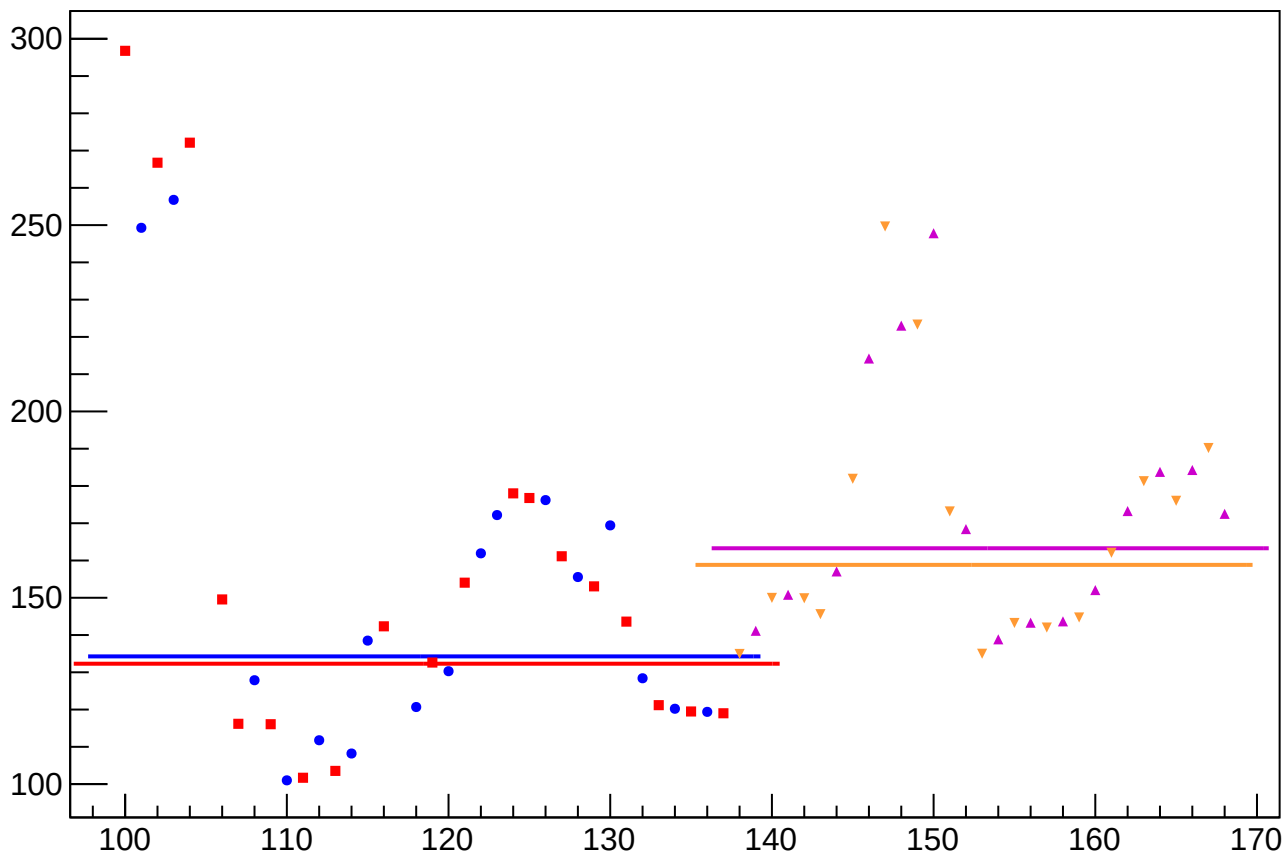
Right: -715.084 ± 37.808 χ^2/NDF : 20508.6/35

In: -4526.772 ± 36.419 χ^2/NDF : 42029.1/31

Out: -2463.482 ± 34.994 χ^2/NDF : 14162.8/34

All: -3453.978 ± 25.233 χ^2/NDF : 57860.8/66

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 158.826 $\pm$ 0.033 χ^2 /NDF: 620590.4/15

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 163.283 $\pm$ 0.035 χ^2 /NDF: 609373.4/14

Left: 160.970 $\pm$ 0.024 χ^2 /NDF: 1238604.5/30

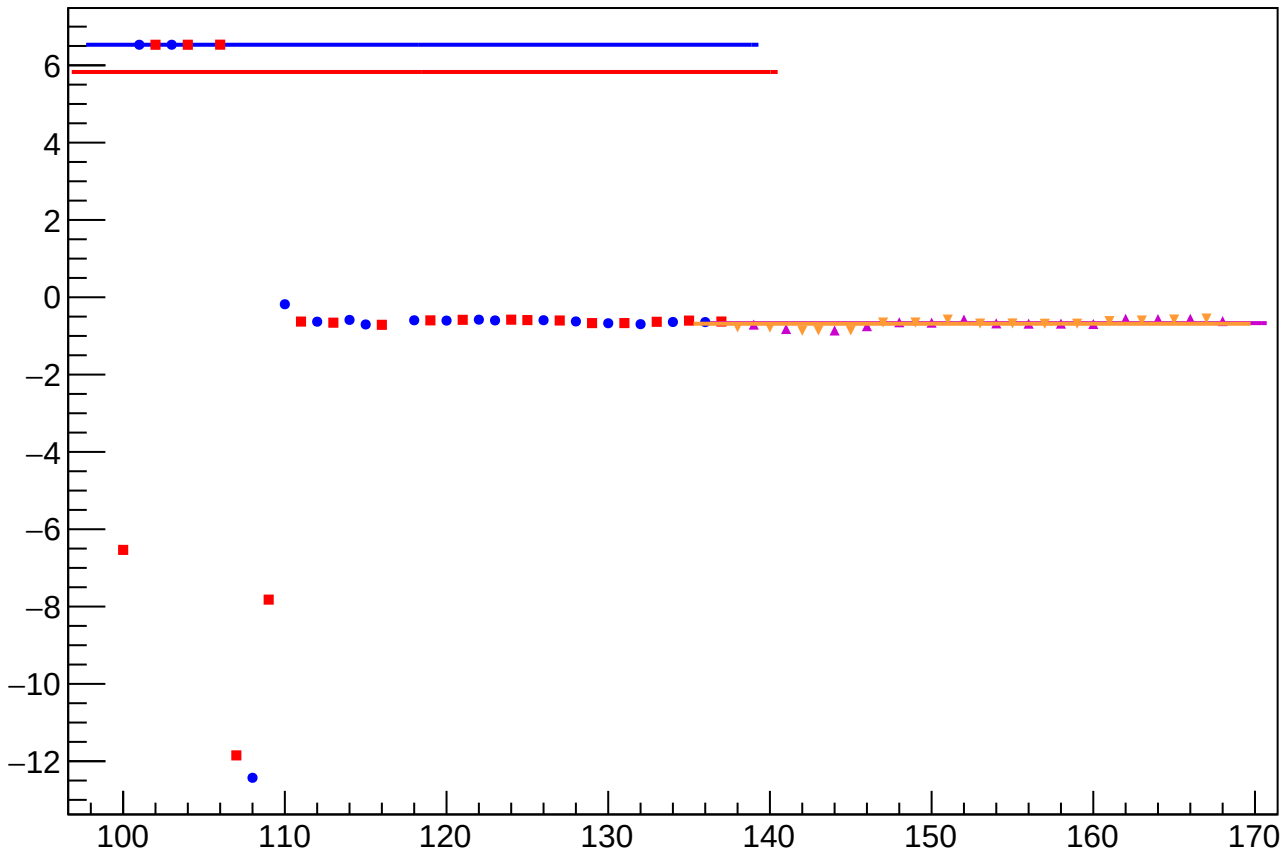
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 150.395 $\pm$ 0.026 χ^2 /NDF: 1711452.1/31

Out: 146.982 $\pm$ 0.025 χ^2 /NDF: 1774445.1/34

All: 148.620 $\pm$ 0.018 χ^2 /NDF: 3495030.9/66

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.684+/-0.000 χ^2/NDF :124022184.5/15

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.669+/-0.000 χ^2/NDF :95181895.6/14

Left: -0.677 ± 0.000 χ^2/NDF : 220502274.5/30

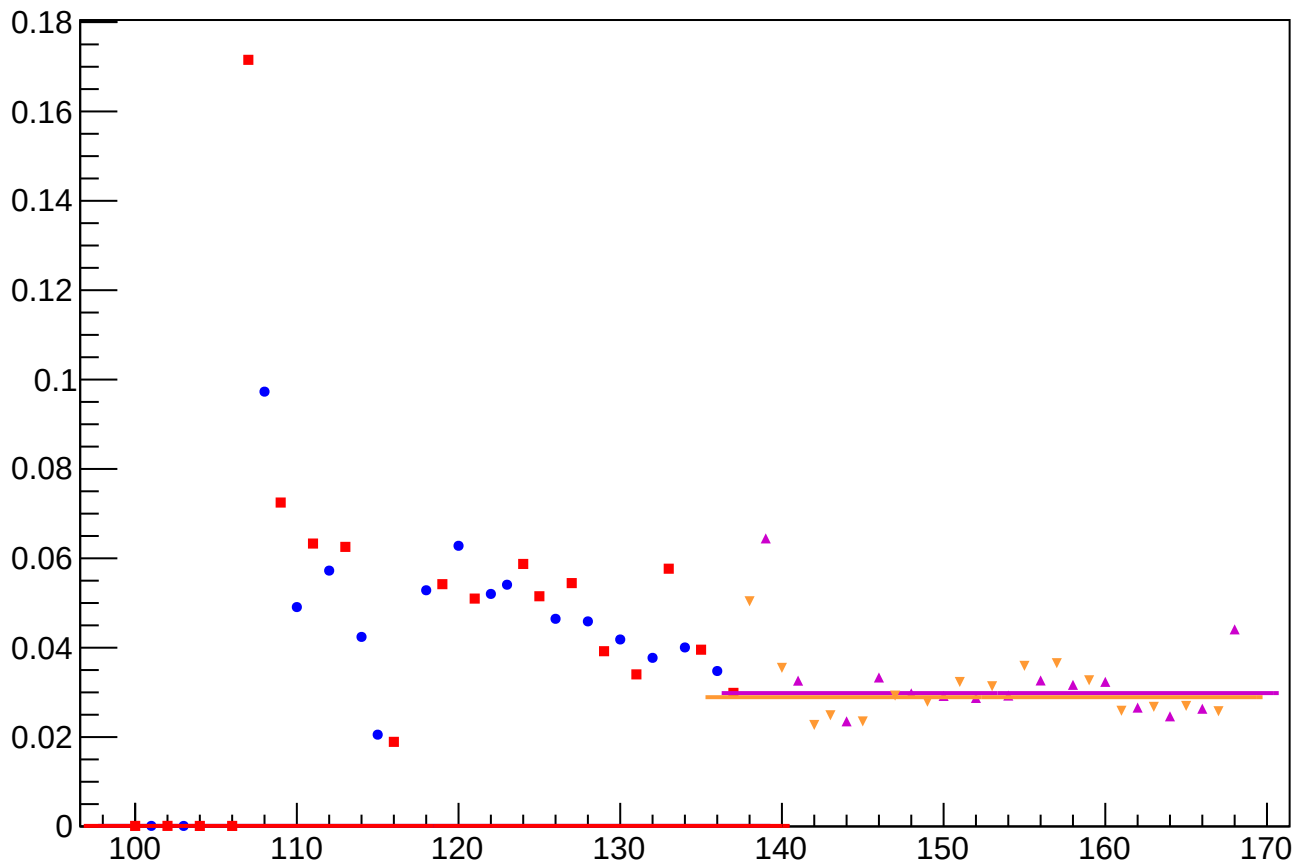
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5

In: 6.531+/-0.000 χ^2 /NDF:667357572345.3/31

Out: 5.827+/-0.000 χ^2/NDF :756425462193881.8/3

All: 6.154+/-0.000 χ^2/NDF : 77709023473621

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.029+/-0.000 χ^2/NDF : 590788.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.030+/-0.000 χ^2/NDF : 739528.9/14

Left: 0.029+/-0.000 χ^2/NDF : 1339390.9/30

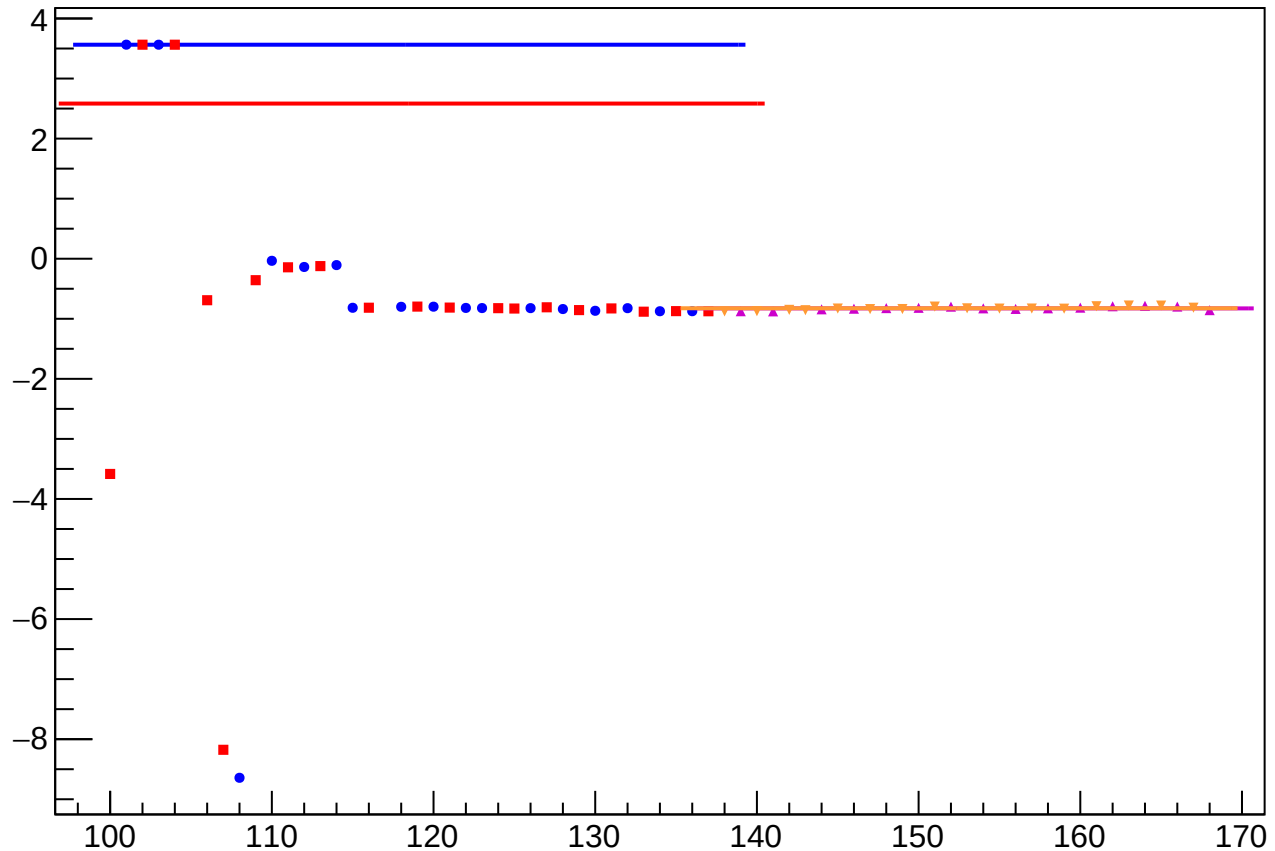
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 28141944.5/31

Out: 0.000+/-0.000 χ^2/NDF : 28616914.3/34

All: 0.000+/-0.000 χ^2/NDF : 56759223.7/66

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.825+/-0.000 χ^2/NDF : 123790496.5/15

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.827+/-0.000 χ^2/NDF : 107730139.5/14

Left: -0.826+/-0.000 χ^2/NDF : 231832741.4/30

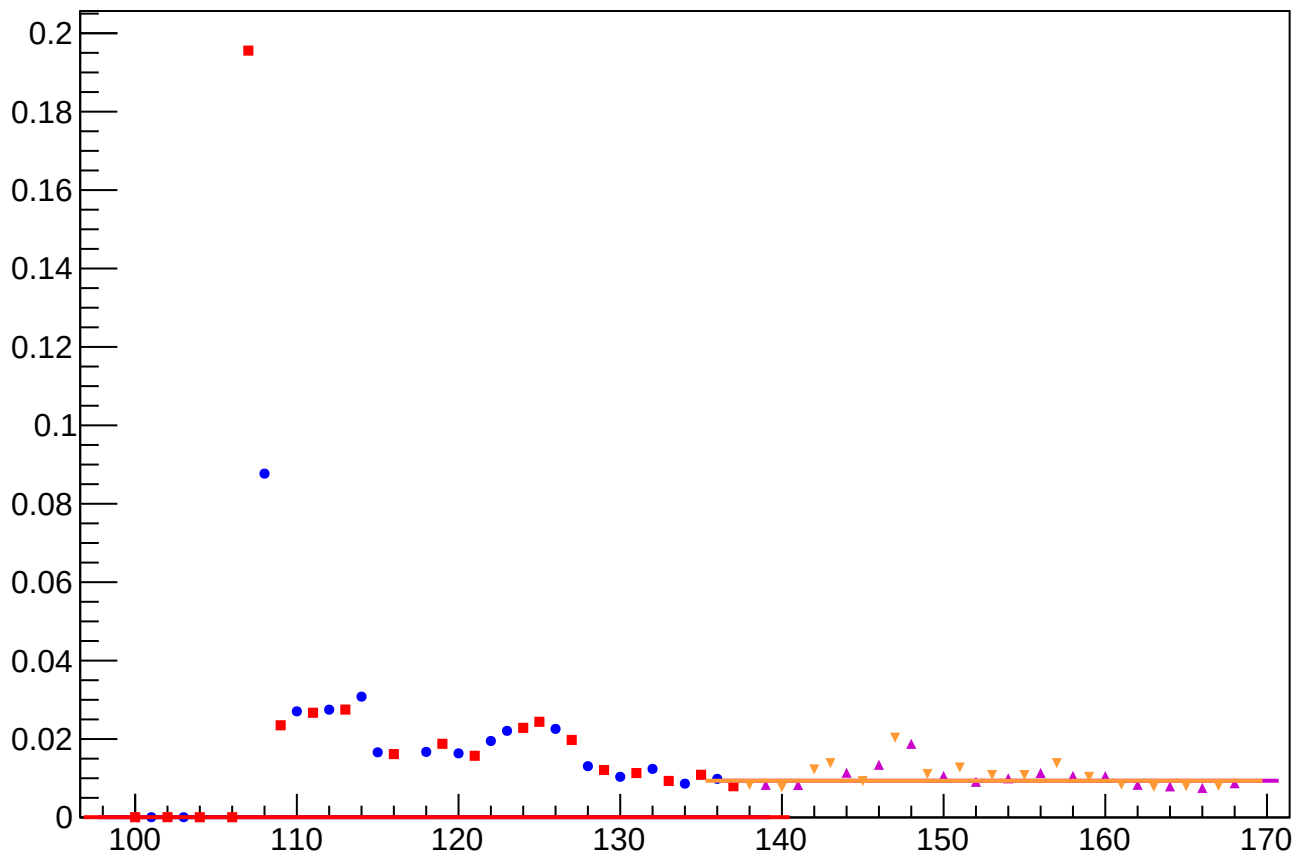
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 2531086508100.2/31

Out: 2.582+/-0.000 χ^2/NDF : 1254736498286687.2

All: 3.039+/-0.000 χ^2/NDF : 13854328441283

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 :1059703.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF :756147.2/14

Left: 0.009+/-0.000 χ^2/NDF : 1815852.4/30

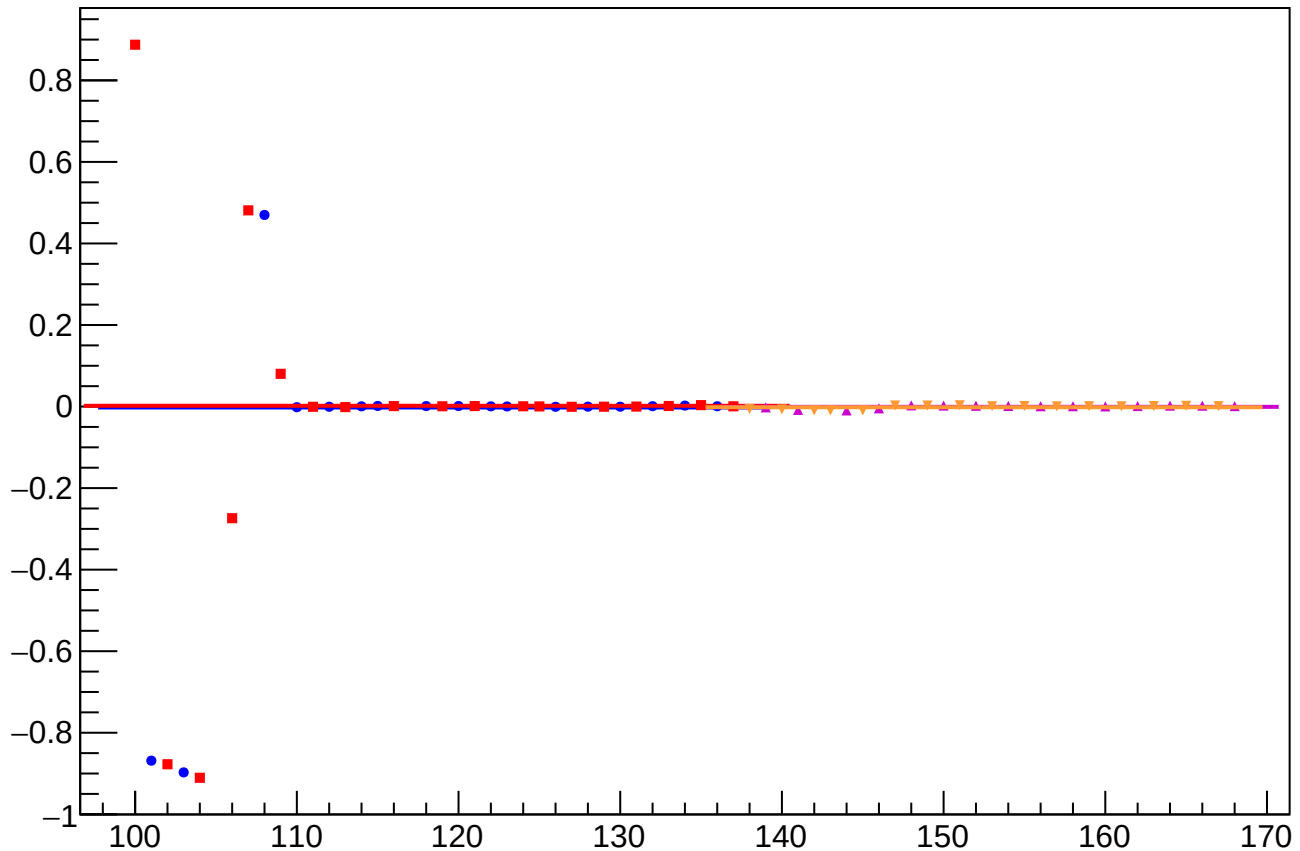
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :28915224.3/31

Out: 0.000+/-0.000 χ^2/NDF :29263851.3/34

All: 0.000+/-0.000 χ^2/NDF : 58179695.7/66

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.002+/-0.000 χ^2/NDF : 91677602.6/15

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.001+/-0.000 χ^2/NDF : 66520757.8/14

Left: -0.001+/-0.000 χ^2/NDF : 160041818.1/30

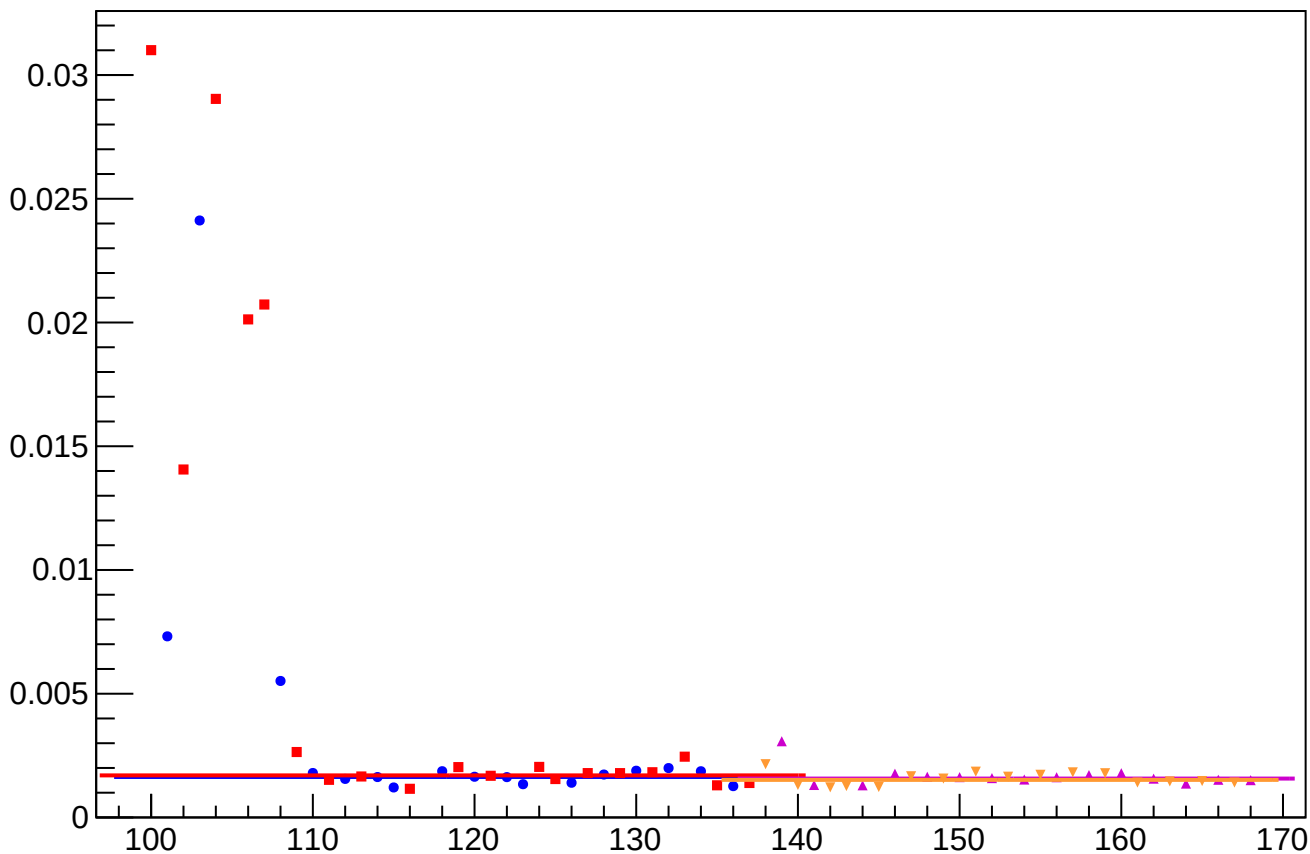
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9864809144.3/31

Out: -0.001+/-0.000 χ^2/NDF : 3147027302.9/34

All: -0.001+/-0.000 χ^2/NDF : 13012494474.9/74

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:427952.3/15

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:501283.8/14

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 940342.6/30

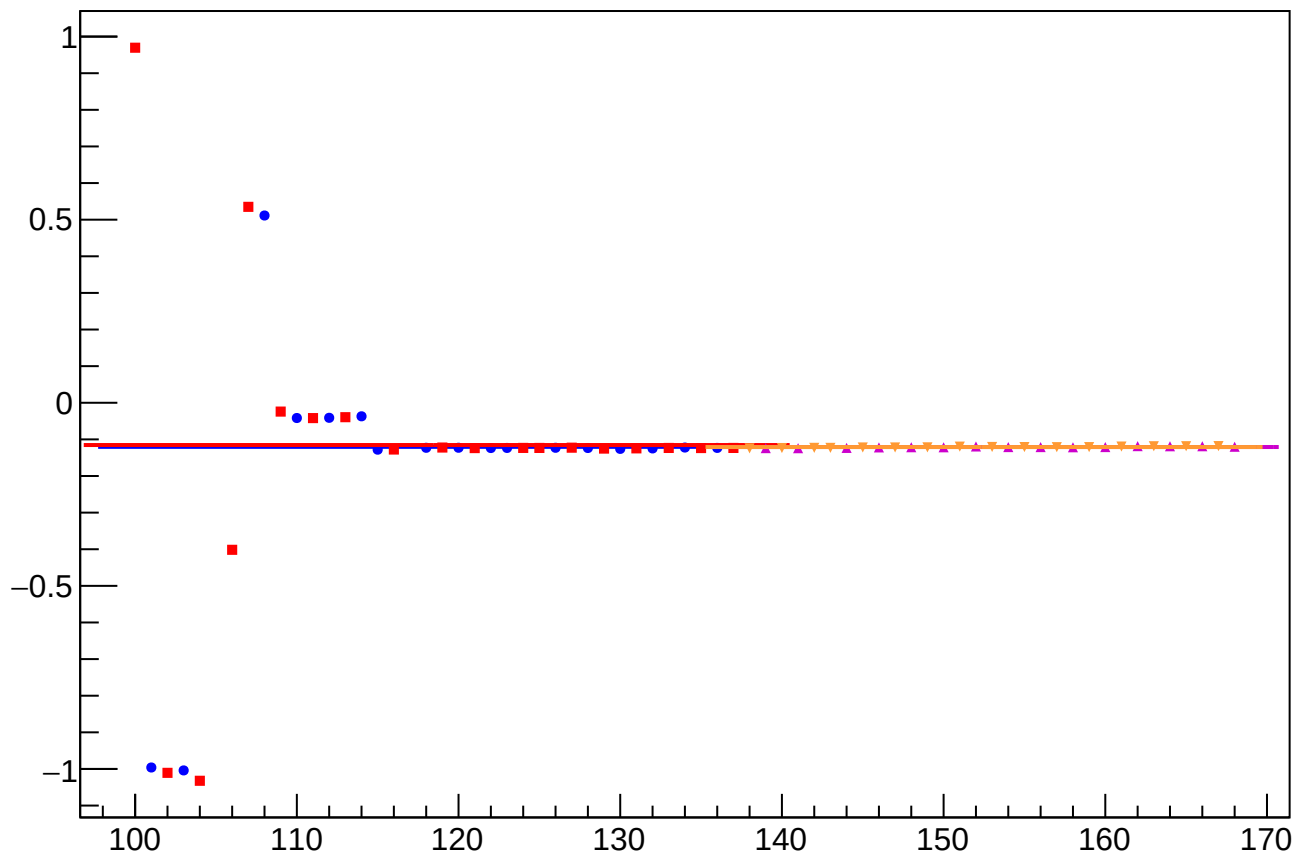
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2430360.7/31

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3527281.3/34

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5960633.4/66

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 : 31344900.8/15

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 27822299.2/14

Left: -0.121+/-0.000 χ^2/NDF : 59171708.9/30

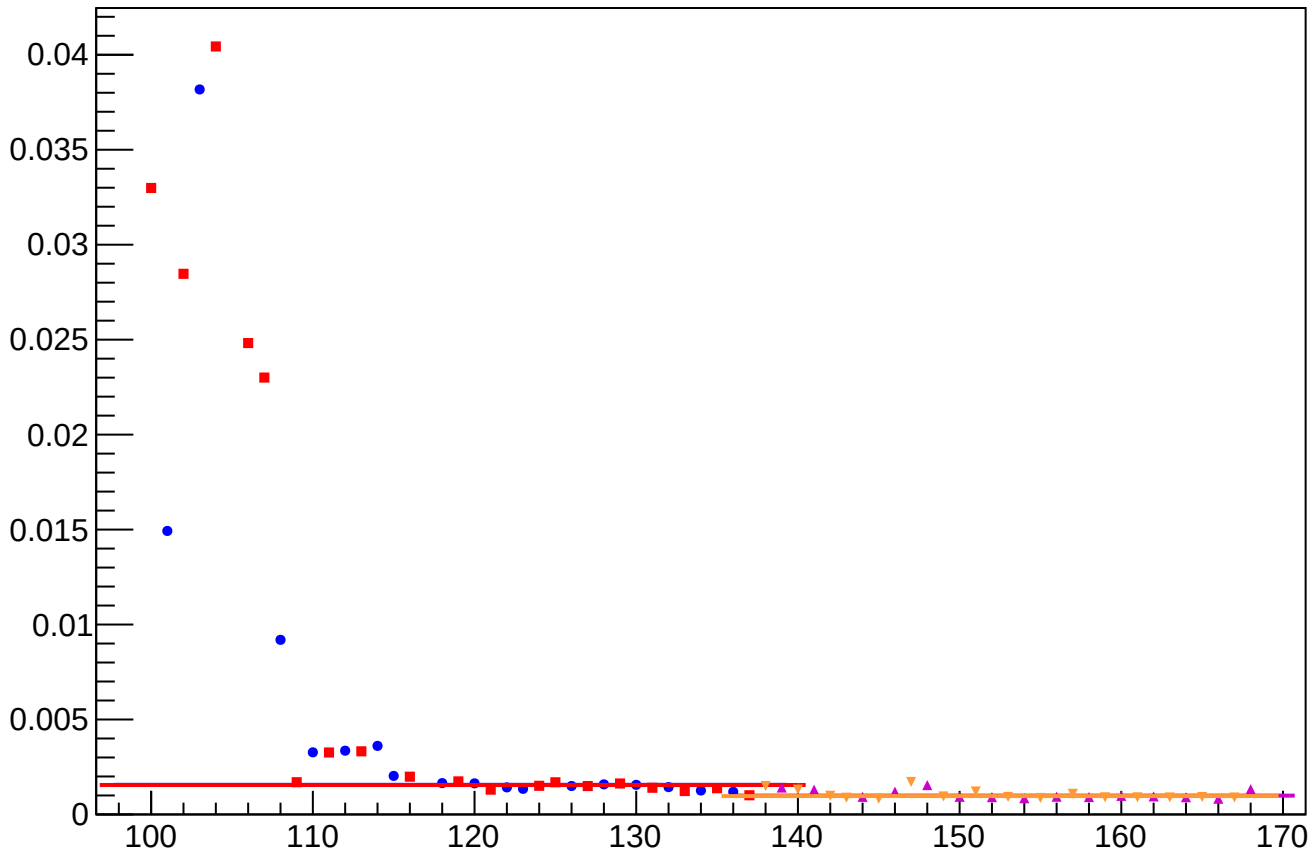
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960542106.6/31

Out: -0.120+/-0.000 χ^2/NDF : 2536951756.4/34

All: -0.120+/-0.000 χ^2/NDF : 6500344118.8/6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2903607.4/16

Left Out: 0.001+/-0.000 χ^2/NDF : 727731.3/15

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 668226.2/14

Left: 0.001+/-0.000 χ^2/NDF : 1402470.8/30

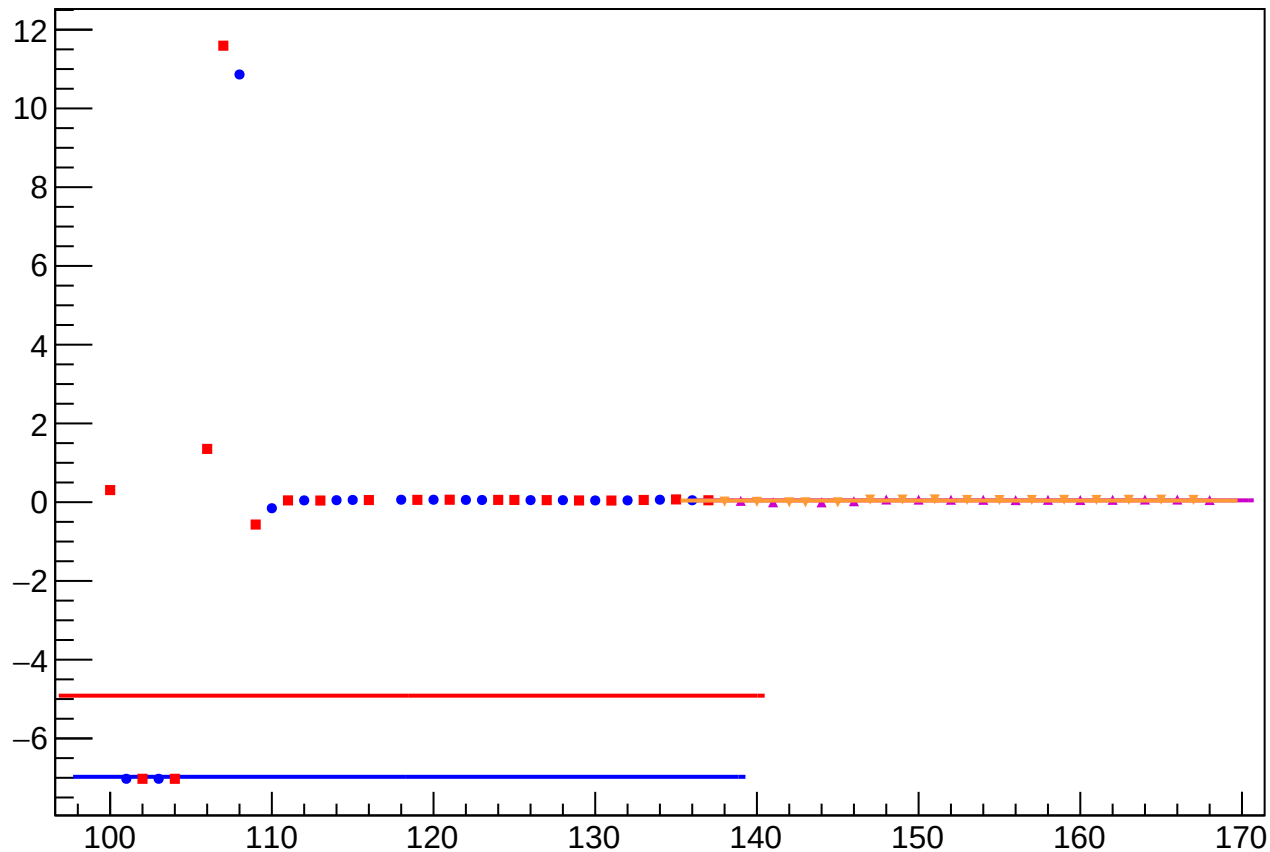
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF : 4610557.2/31

Out: 0.001+/-0.000 χ^2/NDF : 5382223.3/34

All: 0.001+/-0.000 χ^2/NDF : 10002020.5/66

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16

Left Out: 0.041+/-0.000 χ^2/NDF : 93661255.4/15

Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18

Left In: 0.046+/-0.000 χ^2/NDF : 74048055.1/14

Left: 0.044+/-0.000 χ^2/NDF : 169193028.5/30

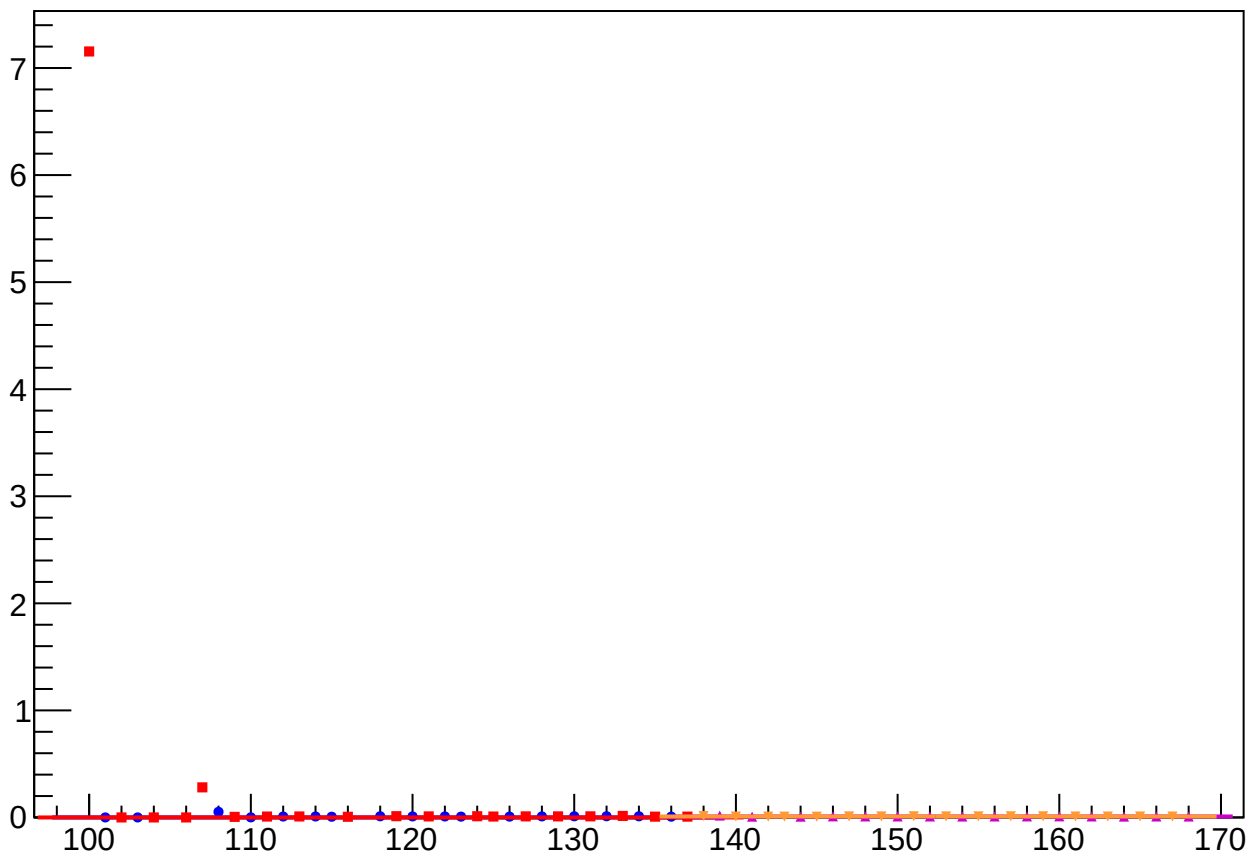
Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9

In: -6.945+/-0.000 χ^2/NDF : 14151952141507.0/31

Out: -4.893+/-0.000 χ^2/NDF : 368225233628427.8

All: -5.874+/-0.000 χ^2/NDF : 4383029335170

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 420366.9/15

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 495130.5/14

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 926474.3/30

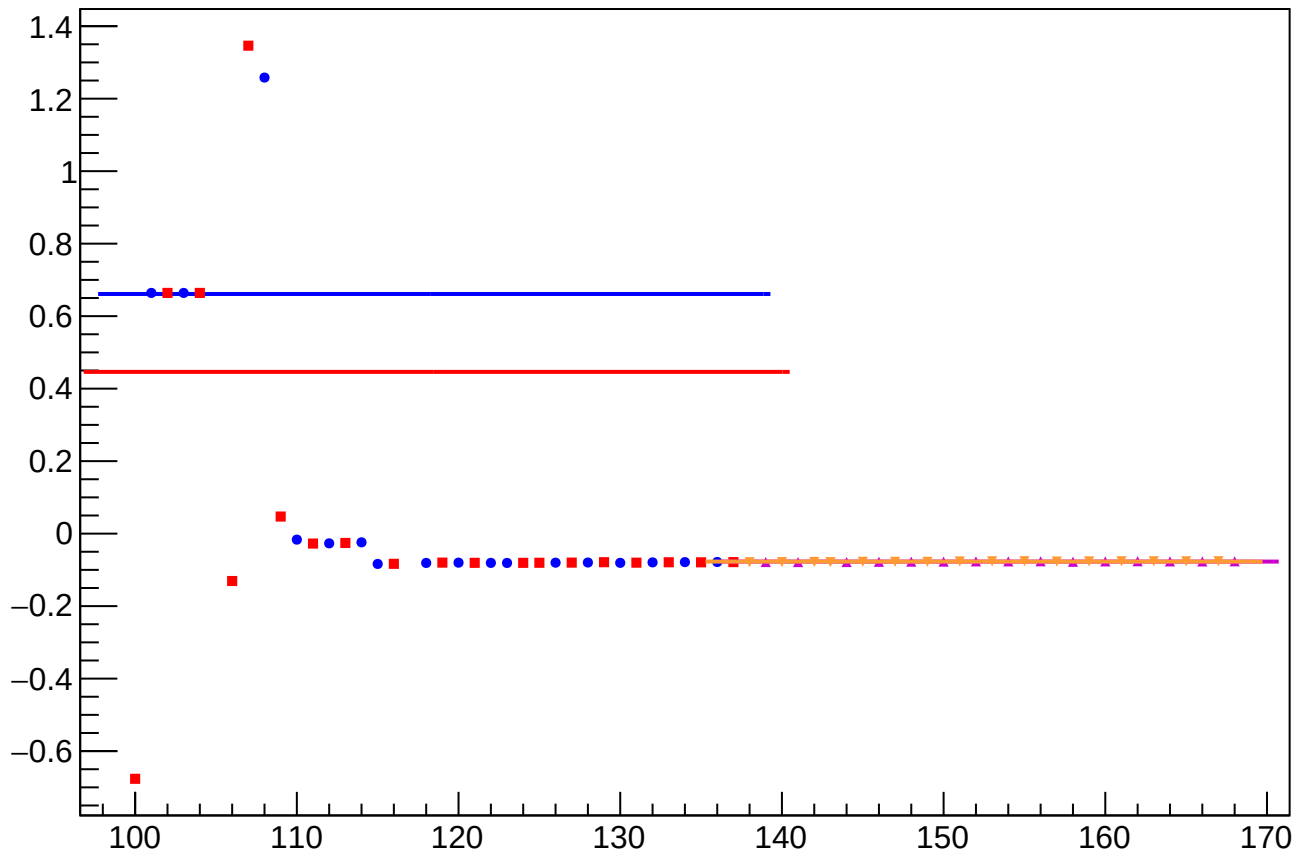
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 17165218.4/35

In: 0.000 $\pm$ 0.000 χ^2/NDF : 26859908.3/31

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 27229646.7/34

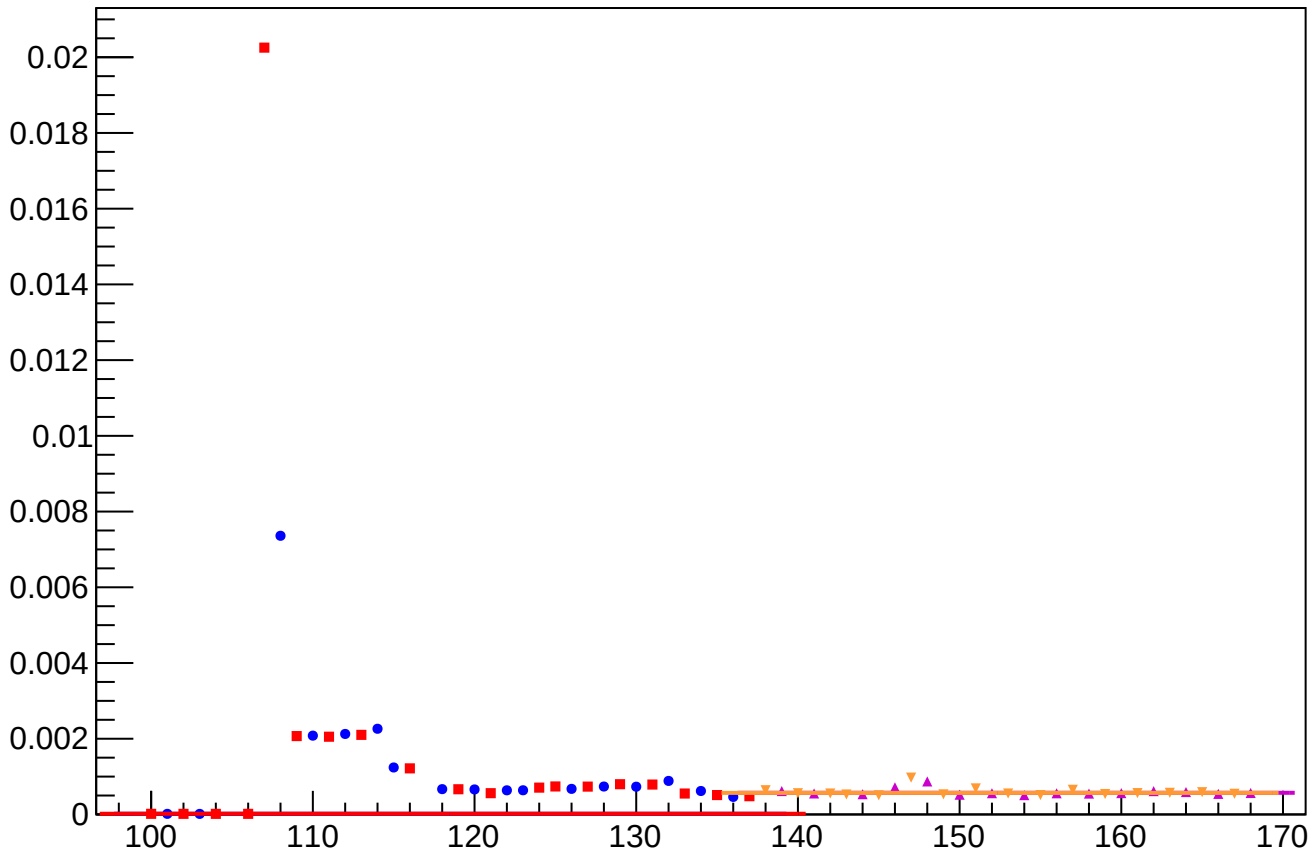
All: 0.000 $\pm$ 0.000 χ^2/NDF : 54090361.1/66

yield_cav4dY_mean vs Slug, Sign Corrected



Left: -0.077 +/- 0.000 χ^2/NDF : 51470810.4/30
 Right: 0.549 +/- 0.000 χ^2/NDF : 474014800057413.9
 In: 0.652 +/- 0.000 χ^2/NDF : 23908577380755.9/31
 Out: 0.440 +/- 0.000 χ^2/NDF : 414773725638347.3/3
 All: 0.541 +/- 0.000 χ^2/NDF : 50048909130770

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 : 410955.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000 χ^2/NDF : 315673.9/14

Left: 0.001+/-0.000 χ^2/NDF : 726839.2/30

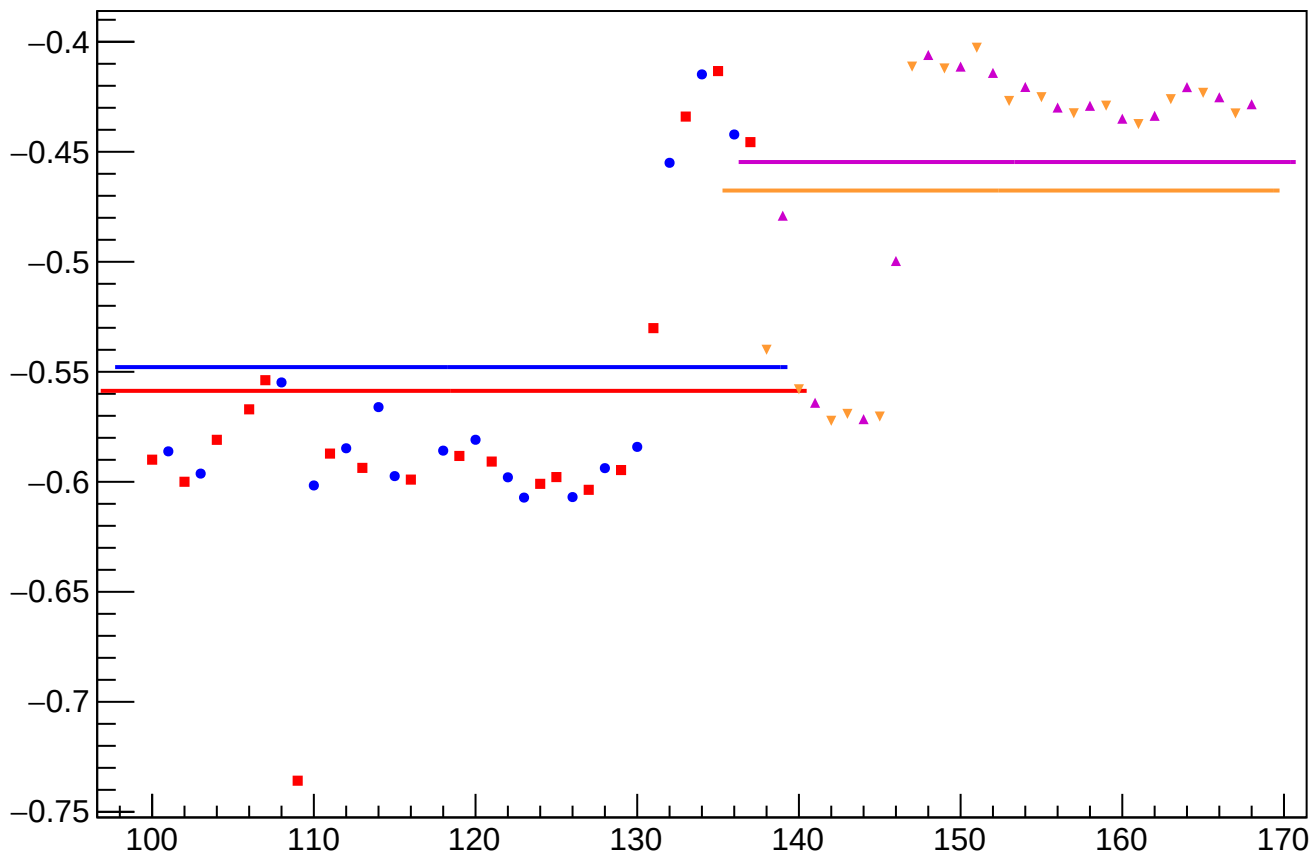
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 30826225.4/31

Out: 0.000+/-0.000 χ^2/NDF : 30654393.6/34

All: 0.000+/-0.000 χ^2/NDF : 61481590.1/66

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.468+/-0.000 χ^2/NDF : 101955568.9/15

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.455+/-0.000 χ^2/NDF : 73926925.4/14

Left: -0.461+/-0.000 χ^2/NDF : 177826838.0/30

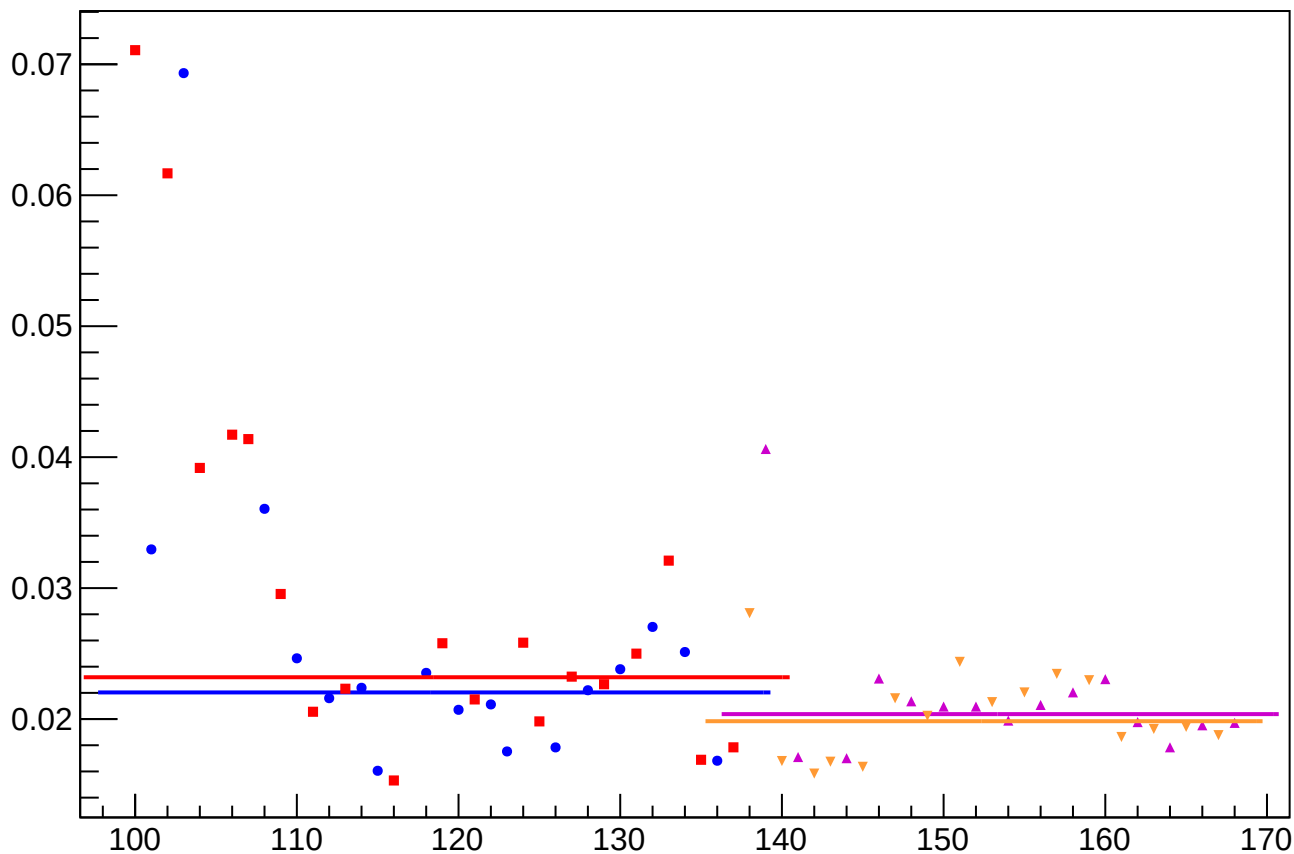
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.484+/-0.000 χ^2/NDF : 184819905.2/31

Out: -0.494+/-0.000 χ^2/NDF : 225688477.9/34

All: -0.489+/-0.000 χ^2/NDF : 412199706.9/66

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 : 397495.1/15

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 502653.0/14

Left: 0.020+/-0.000 χ^2/NDF : 906934.1/30

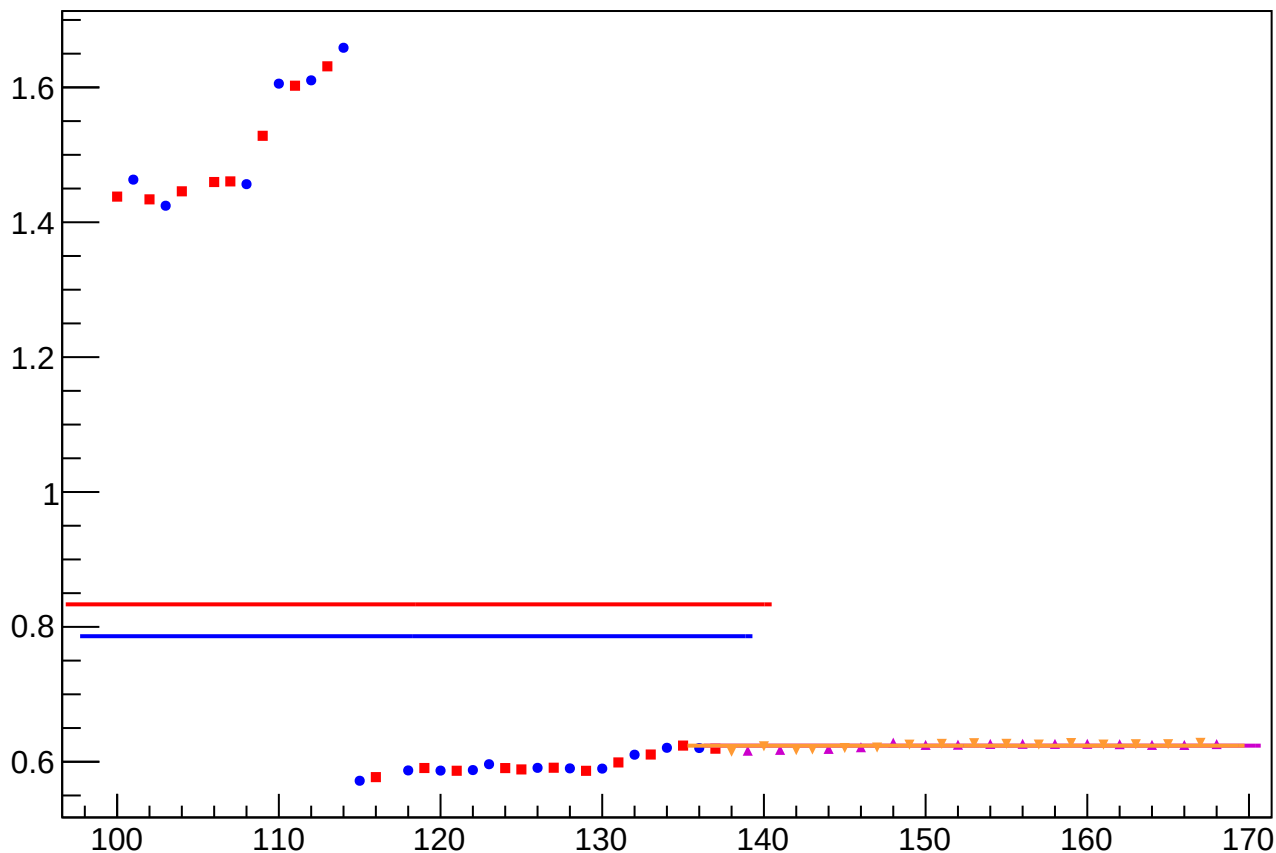
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1500943.4/31

Out: 0.021+/-0.000 χ^2/NDF : 1712287.6/34

All: 0.021+/-0.000 χ^2/NDF : 3213452.1/66

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 : 1140386.5/15

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624+/-0.000 χ^2/NDF : 918028.2/14

Left: 0.624+/-0.000 χ^2/NDF : 2058414.7/30

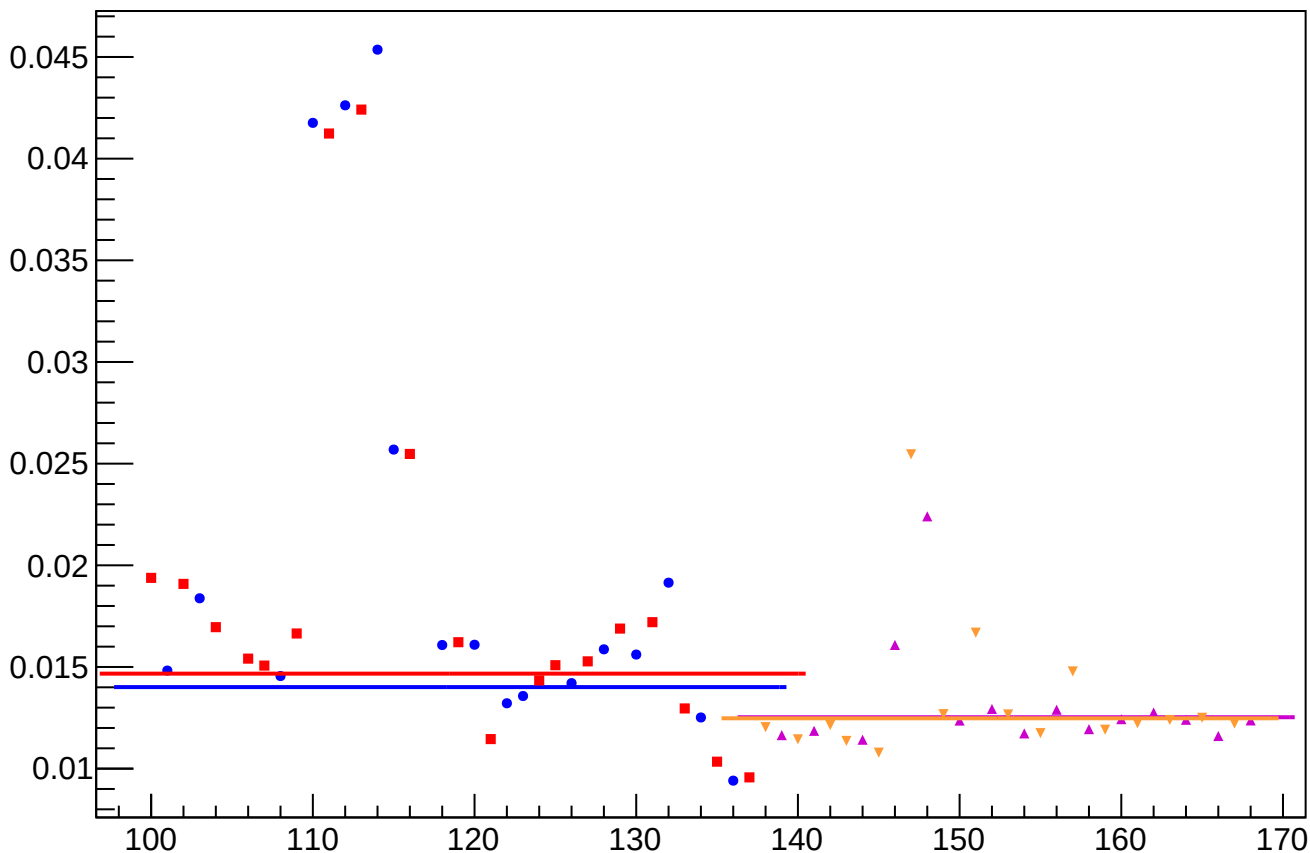
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.671+/-0.000 χ^2/NDF : 4132565847.3/31

Out: 0.682+/-0.000 χ^2/NDF : 5041764436.3/34

All: 0.677+/-0.000 χ^2/NDF : 9181015102.8/66

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012 $\pm$ 0.000 χ^2/NDF :589161.7/15

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1263462.0/18

Left In: 0.013 $\pm$ 0.000 χ^2/NDF :417293.6/14

Left: 0.013 $\pm$ 0.000 χ^2/NDF : 1006654.7/30

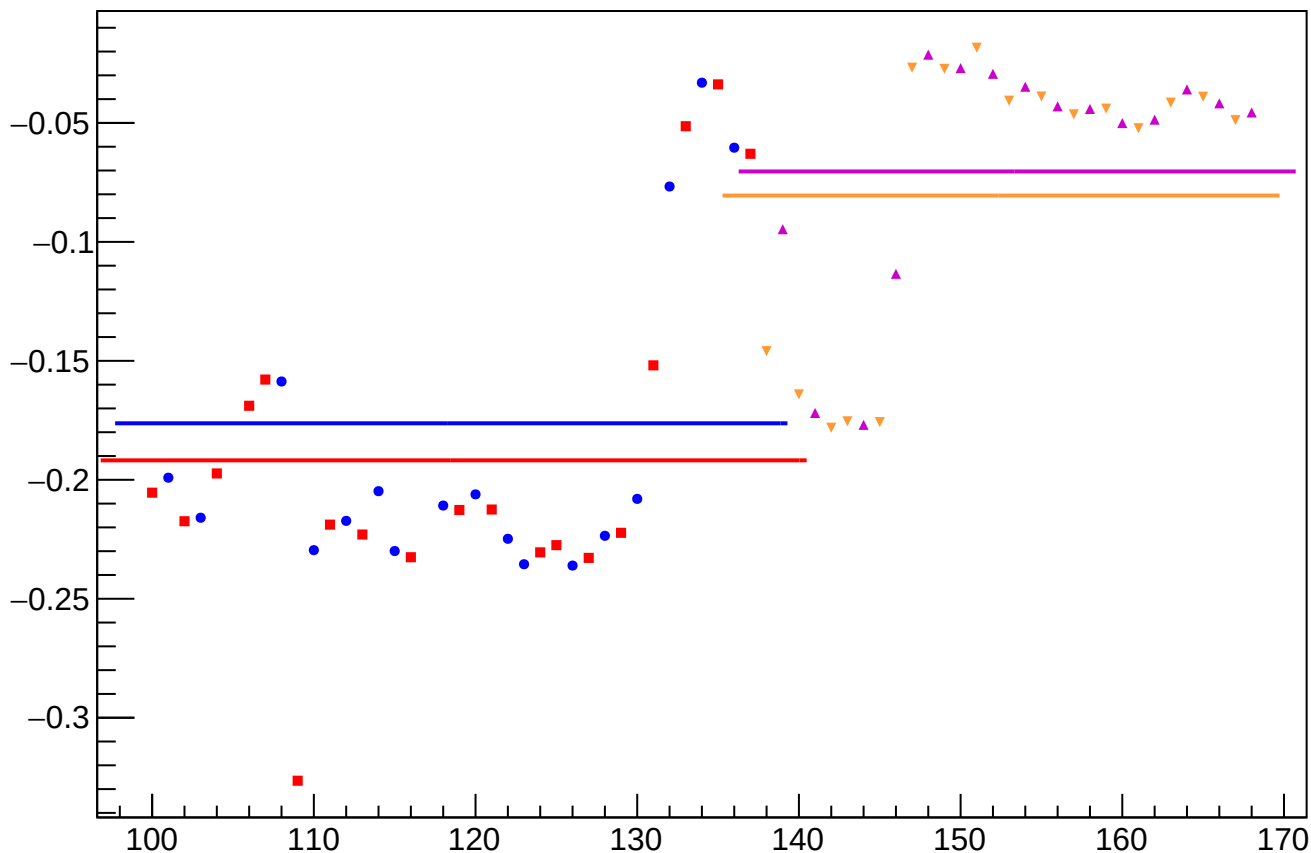
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 2680772.5/35

In: 0.013 $\pm$ 0.000 χ^2/NDF :1912453.8/31

Out: 0.013 $\pm$ 0.000 χ^2/NDF :2046852.6/34

All: 0.013 $\pm$ 0.000 χ^2/NDF : 3961046.0/66

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.081+/-0.000 χ^2/NDF : 97278178.8/15

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.070+/-0.000 χ^2/NDF : 74205612.2/14

Left: -0.076+/-0.000 χ^2/NDF : 172752348.8/30

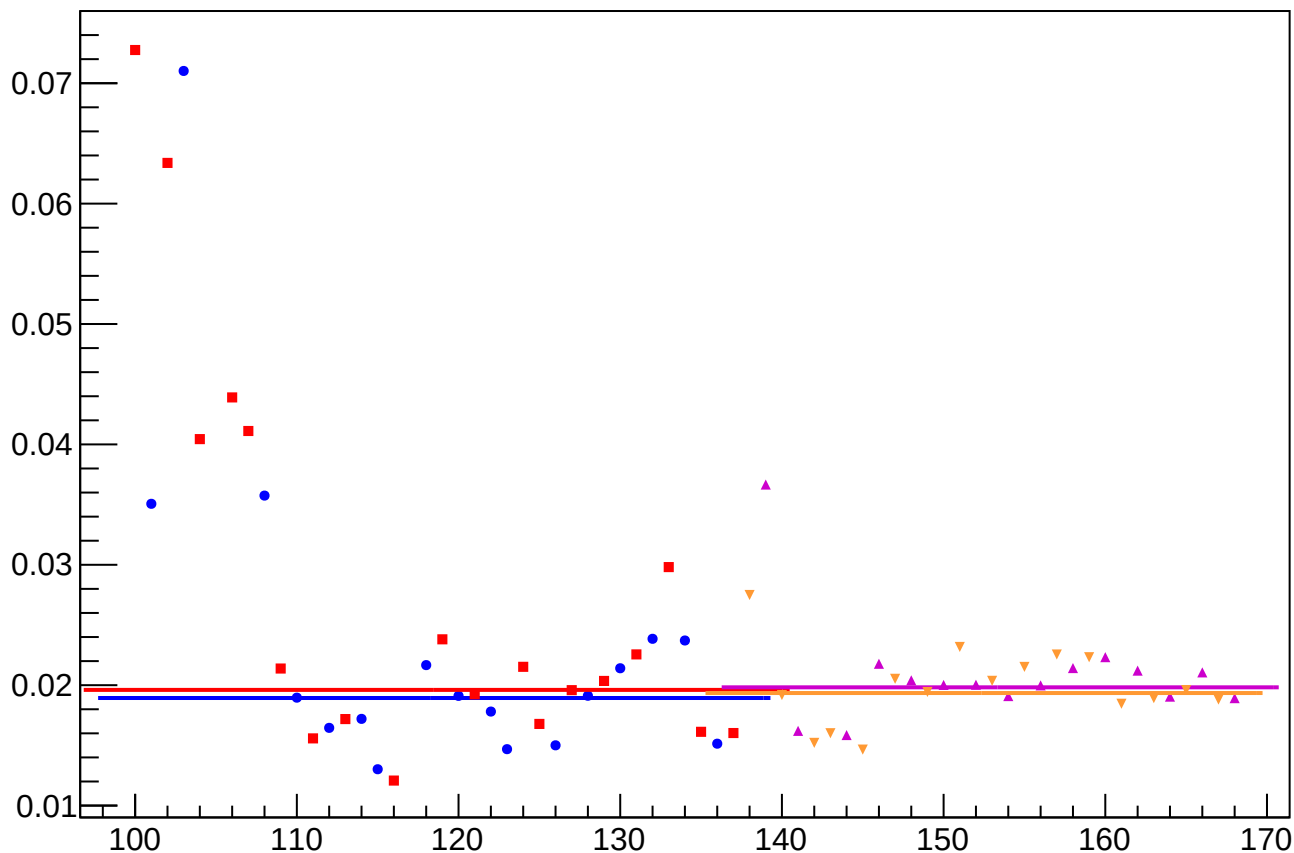
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.109+/-0.000 χ^2/NDF : 243410015.5/31

Out: -0.119+/-0.000 χ^2/NDF : 290323022.4/34

All: -0.114+/-0.000 χ^2/NDF : 535623762.9/66

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 : 418156.2/15

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.020+/-0.000 χ^2/NDF : 475726.0/14

Left: 0.020+/-0.000 χ^2/NDF : 899434.6/30

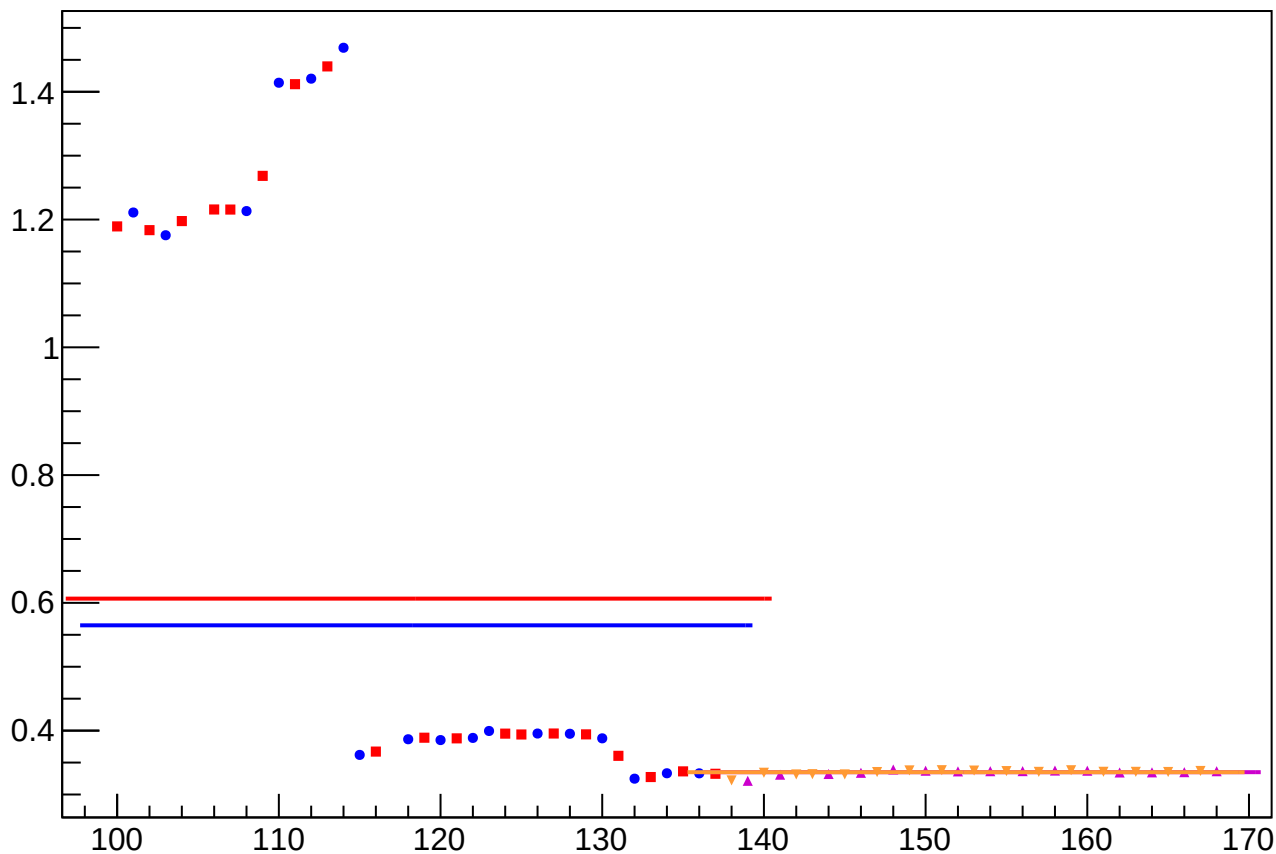
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1695498.1/31

Out: 0.019+/-0.000 χ^2/NDF : 1877017.2/34

All: 0.019+/-0.000 χ^2/NDF : 3572643.4/66

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565+/-0.000 χ^2/NDF : 5030969499.3/16

Left Out: 0.335+/-0.000 χ^2/NDF :1093996.9/15

Right Out: 0.607+/-0.000 χ^2/NDF : 5513752213.8/18

Left In: 0.335+/-0.000 χ^2/NDF :1171085.0/14

Left: 0.335+/-0.000 χ^2/NDF : 2265127.8/30

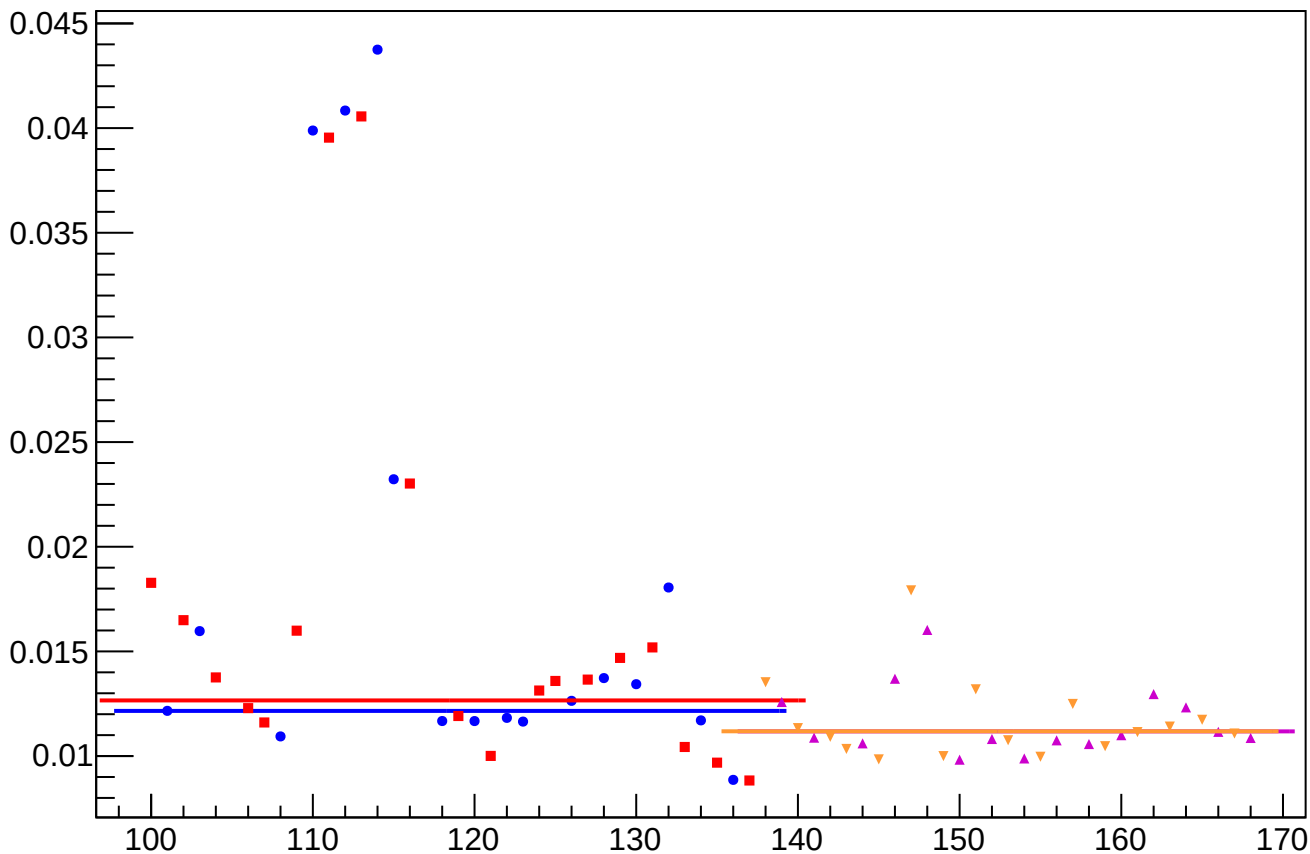
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.404+/-0.000 χ^2/NDF :6446373378.1/31

Out: 0.414+/-0.000 χ^2/NDF :7439894427.3/34

All: 0.409+/-0.000 χ^2/NDF : 13892146102.4/66

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 : 398268.3/15

Right Out: 0.013 ± 0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011 ± 0.000 χ^2/NDF : 322729.5/14

Left: 0.011 ± 0.000 χ^2/NDF : 720999.2/30

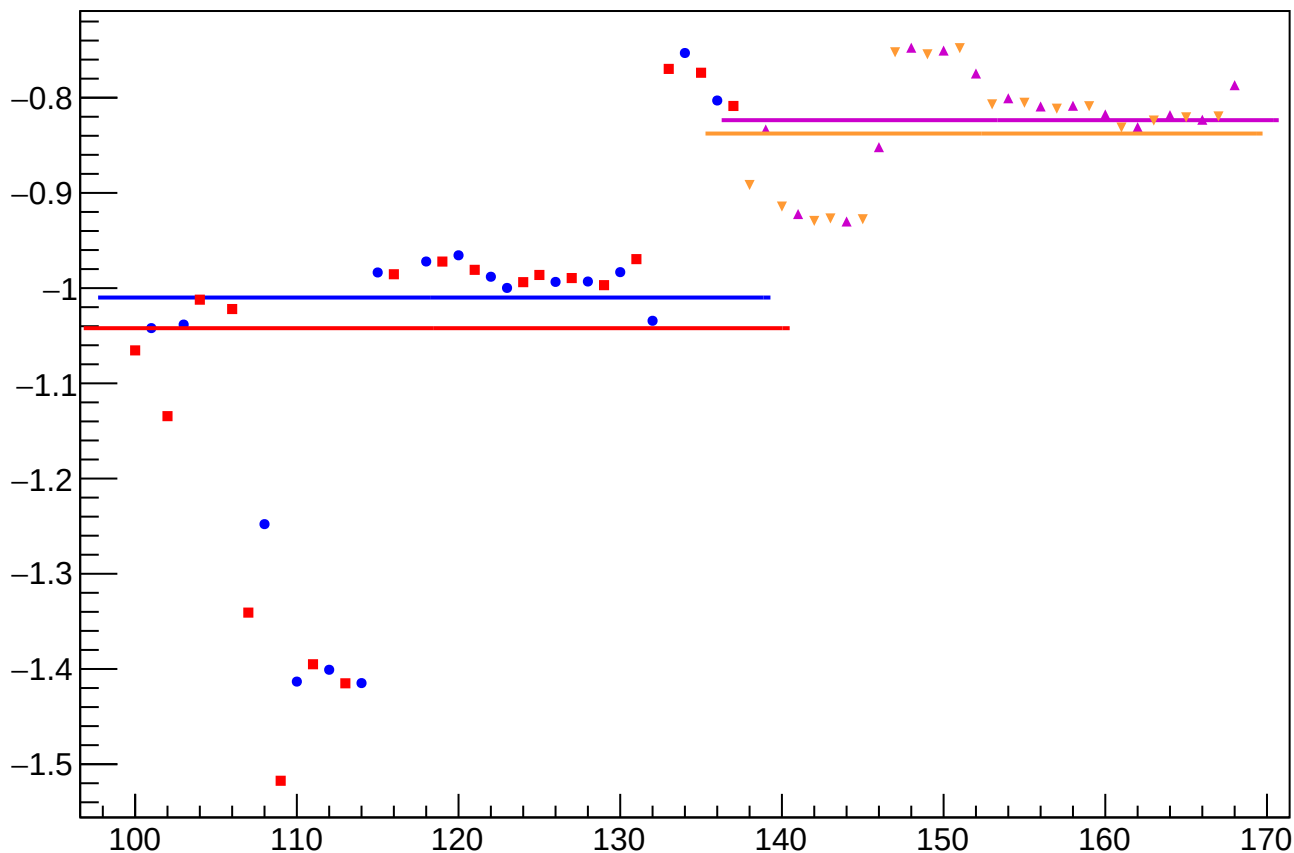
Right: 0.012 ± 0.000 χ^2/NDF : 2589989.8/35

In: 0.011 ± 0.000 χ^2/NDF : 1683821.2/31

Out: 0.012 ± 0.000 χ^2/NDF : 1782400.4/34

All: 0.012 ± 0.000 χ^2/NDF : 3468626.5/66

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 $\chi^2/\text{NDF}: 387650332.0/16$

Left Out: -0.838 ± 0.000 $\chi^2/\text{NDF}: 93388268.8/15$

Right Out: -1.042 ± 0.000 $\chi^2/\text{NDF}: 530106141.8/18$

Left In: -0.824 ± 0.000 $\chi^2/\text{NDF}: 73014457.3/14$

Left: -0.831 ± 0.000 $\chi^2/\text{NDF}: 168800564.1/30$

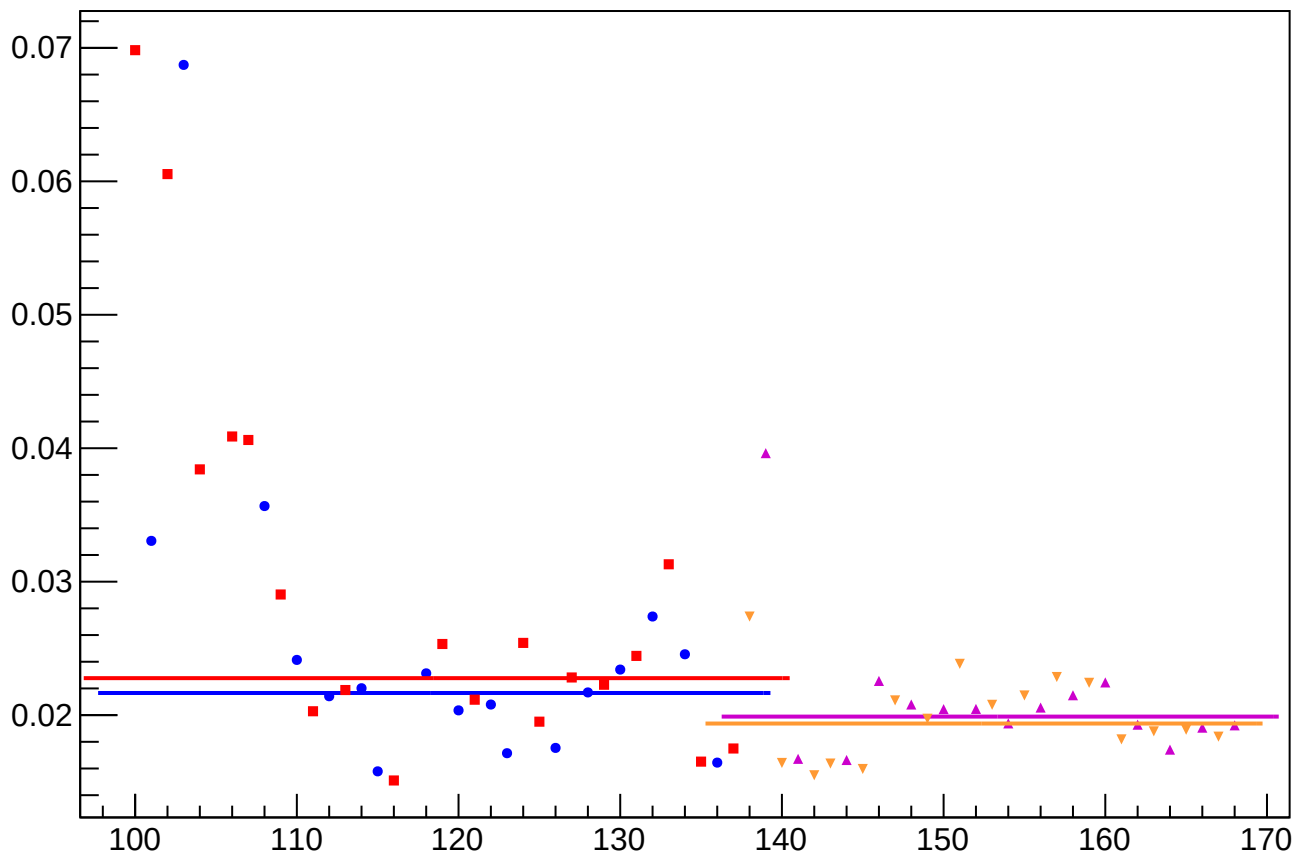
Right: -1.026 ± 0.000 $\chi^2/\text{NDF}: 923225272.3/35$

In: -0.882 ± 0.000 $\chi^2/\text{NDF}: 719108405.3/31$

Out: -0.897 ± 0.000 $\chi^2/\text{NDF}: 927617912.0/34$

All: -0.890 ± 0.000 $\chi^2/\text{NDF}: 1650627648.4/6$

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 : 395144.9/15

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.020+/-0.000 χ^2/NDF : 499594.4/14

Left: 0.020+/-0.000 χ^2/NDF : 901318.4/30

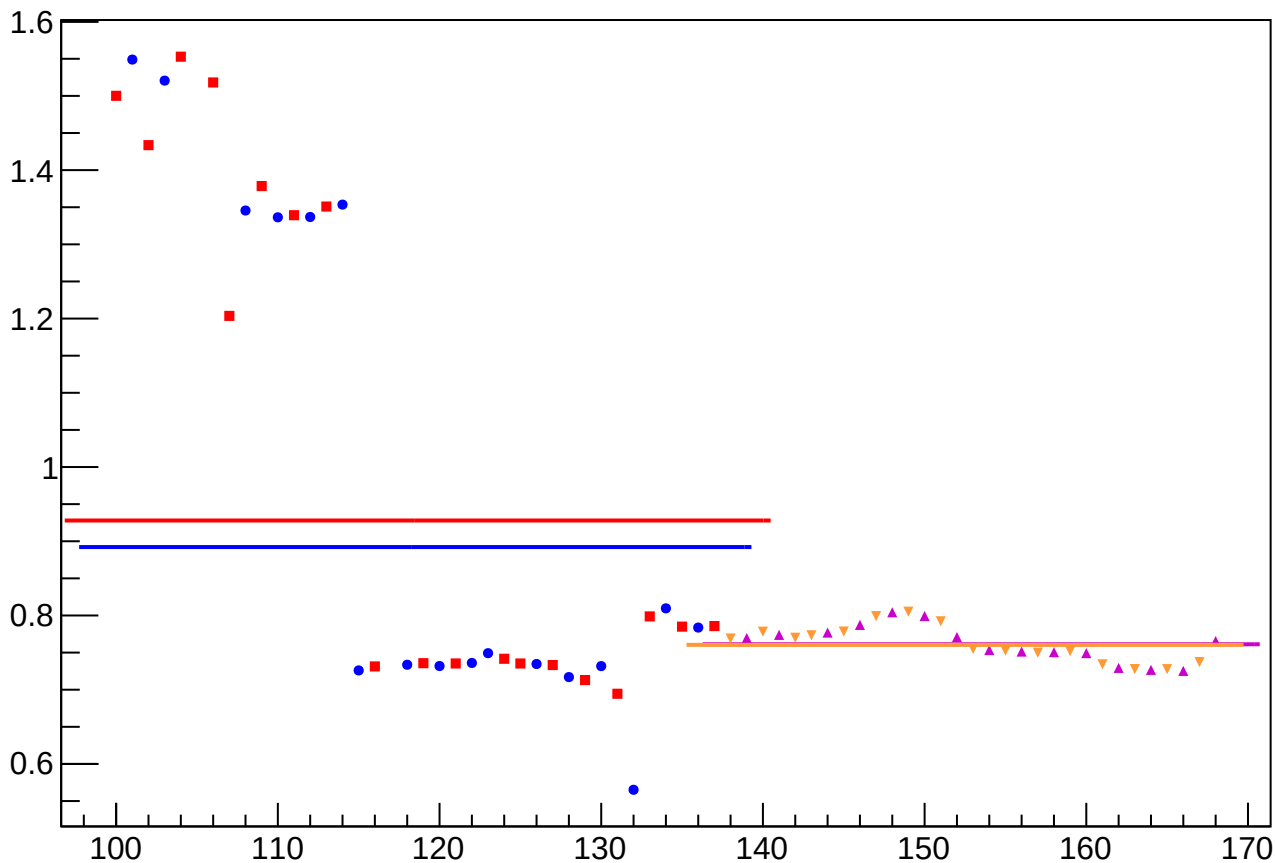
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1529705.2/31

Out: 0.020+/-0.000 χ^2/NDF : 1716125.5/34

All: 0.020+/-0.000 χ^2/NDF : 3246092.3/66

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.760 $\pm$ 0.000 χ^2/NDF :36027456.5/15

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.761 $\pm$ 0.000 χ^2/NDF :32556872.0/14

Left: 0.761 $\pm$ 0.000 χ^2/NDF : 68606156.0/30

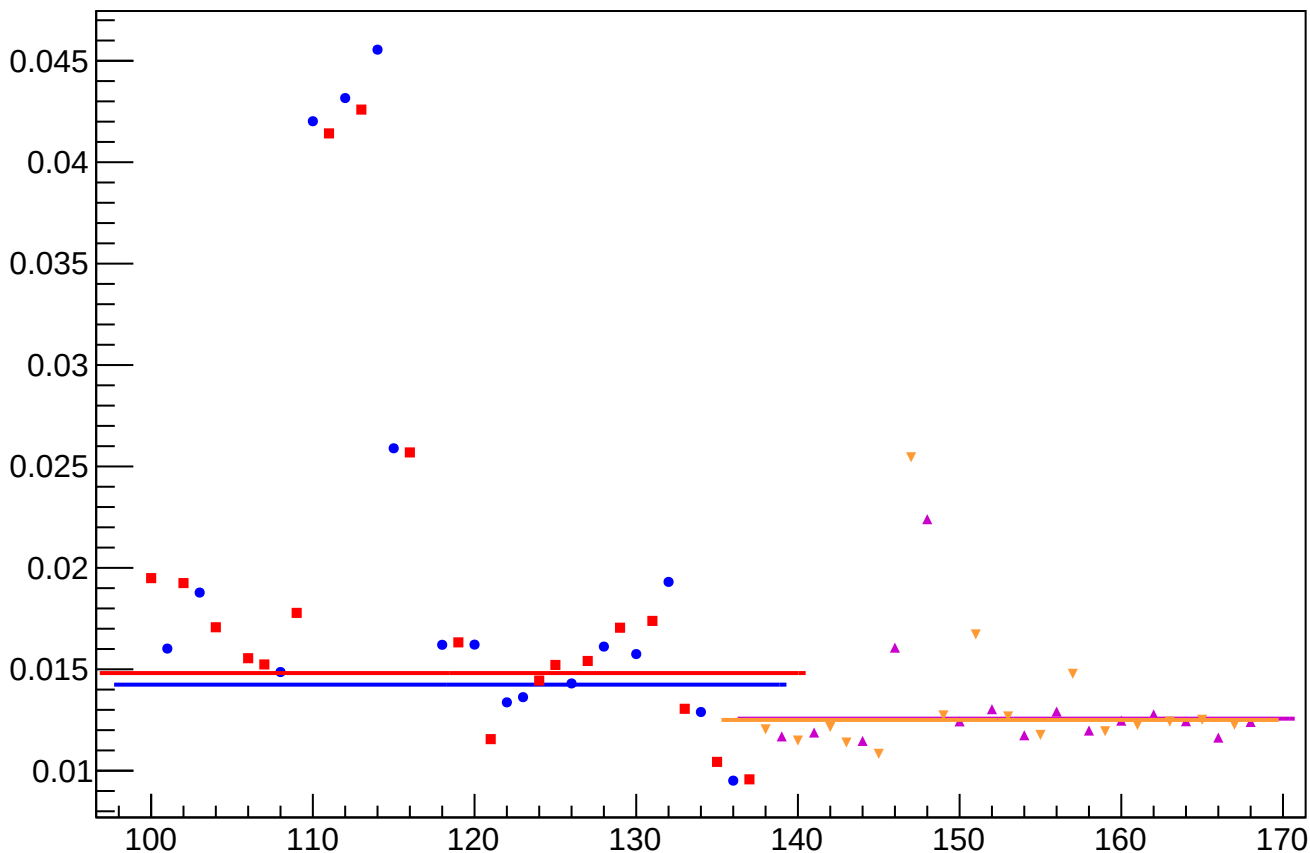
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.798 $\pm$ 0.000 χ^2/NDF :2788710935.5/31

Out: 0.807 $\pm$ 0.000 χ^2/NDF :3028442647.3/34

All: 0.802 $\pm$ 0.000 χ^2/NDF : 5820600307.9/66

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1415681.3/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:584499.5/15

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1274172.7/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:413225.7/14

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 998004.4/30

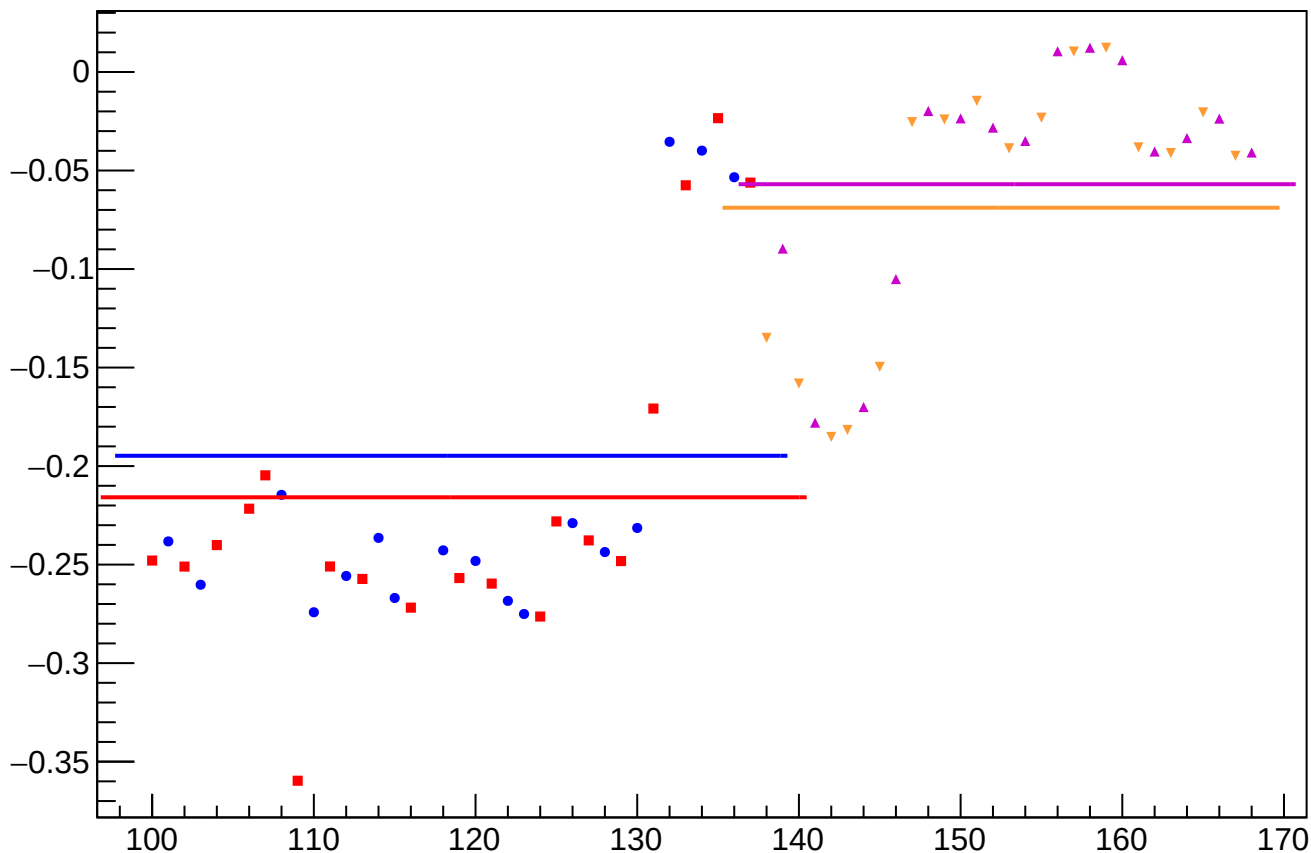
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:1941223.3/31

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2069806.2/34

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 4012016.1/66

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.069+/-0.000 χ^2/NDF : 114396656.5/15

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.057+/-0.000 χ^2/NDF : 97226530.5/14

Left: -0.063+/-0.000 χ^2/NDF : 213390553.0/30

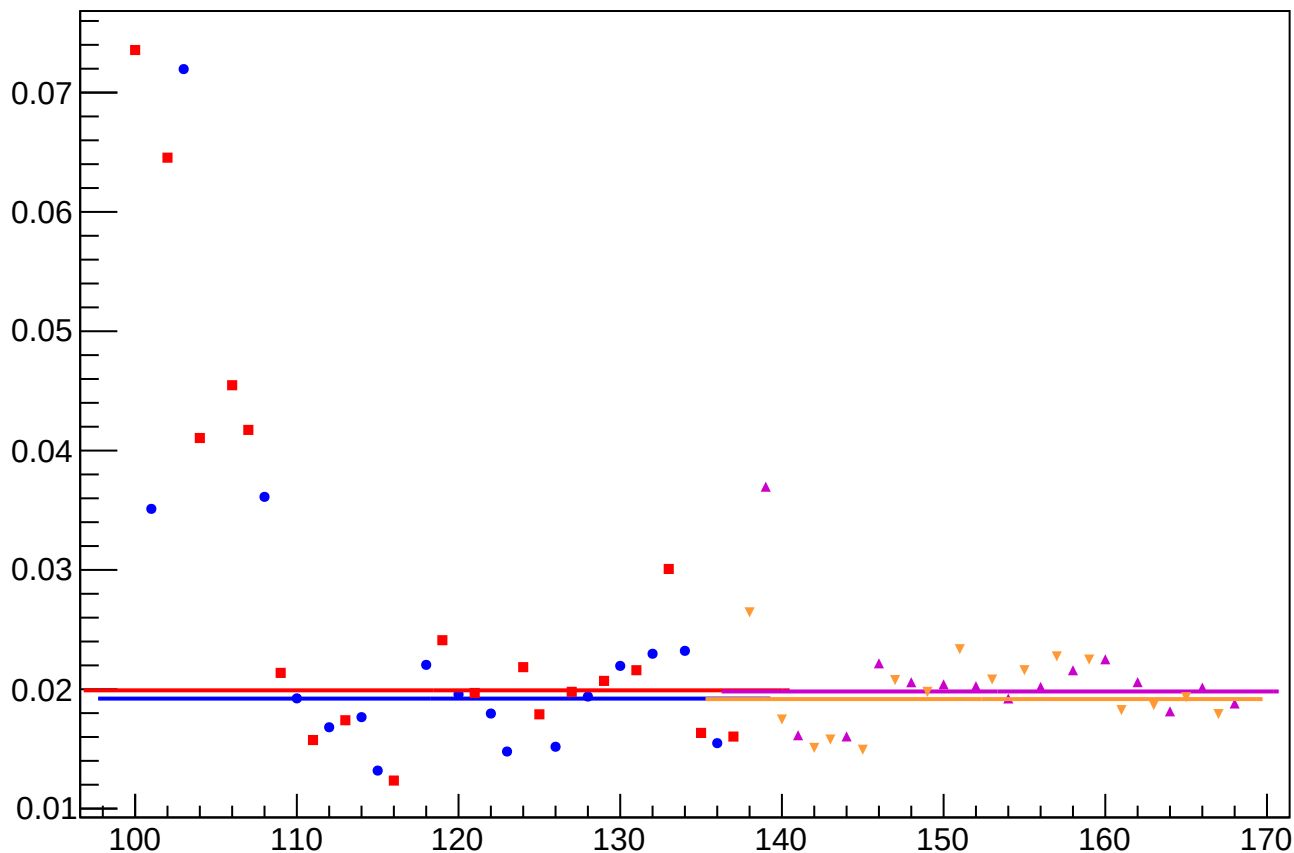
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.107+/-0.000 χ^2/NDF : 370546129.6/31

Out: -0.118+/-0.000 χ^2/NDF : 413545971.5/34

All: -0.113+/-0.000 χ^2/NDF : 786690064.5/66

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 : 426761.6/15

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.020+/-0.000 χ^2/NDF : 484780.1/14

Left: 0.019+/-0.000 χ^2/NDF : 921660.1/30

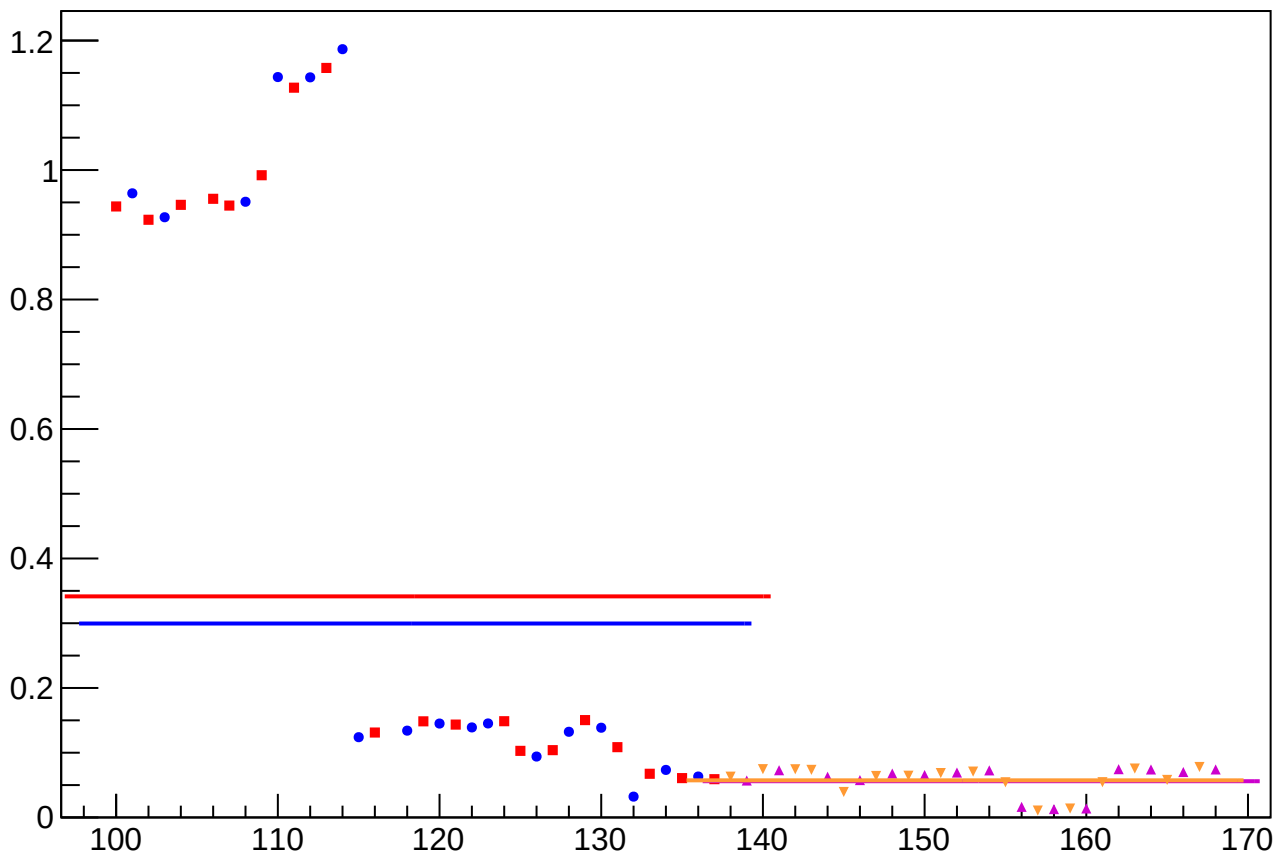
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.020+/-0.000 χ^2/NDF : 1668056.3/31

Out: 0.019+/-0.000 χ^2/NDF : 1883055.9/34

All: 0.020+/-0.000 χ^2/NDF : 3552279.1/66

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.057+/-0.000 χ^2/NDF : 40217287.2/15

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.056+/-0.000 χ^2/NDF : 50951451.6/14

Left: 0.057+/-0.000 χ^2/NDF : 91254481.7/30

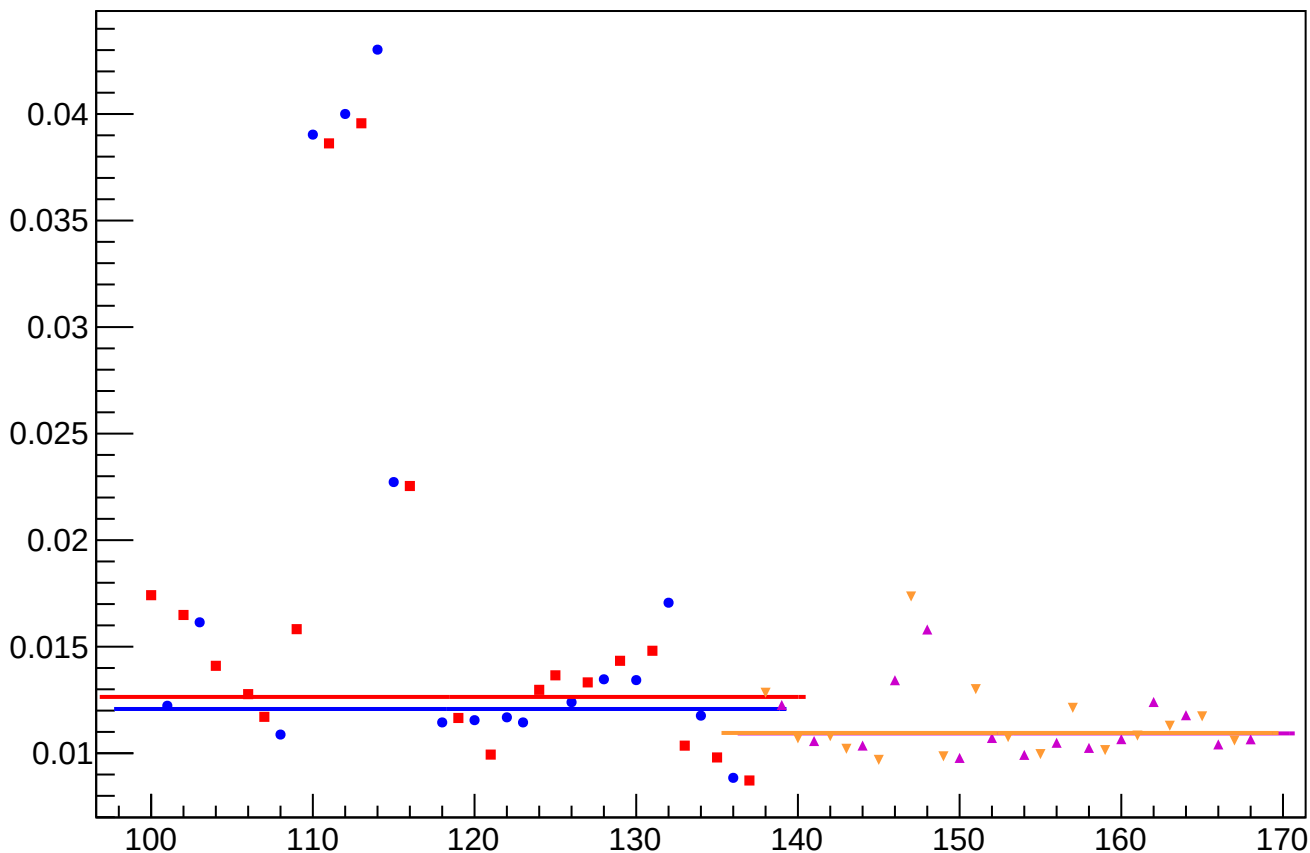
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.128+/-0.000 χ^2/NDF : 6841452085.7/31

Out: 0.138+/-0.000 χ^2/NDF : 7627374912.9/34

All: 0.133+/-0.000 χ^2/NDF : 14474889500.6/68

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:371324.9/15

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:302744.9/14

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 674113.7/30

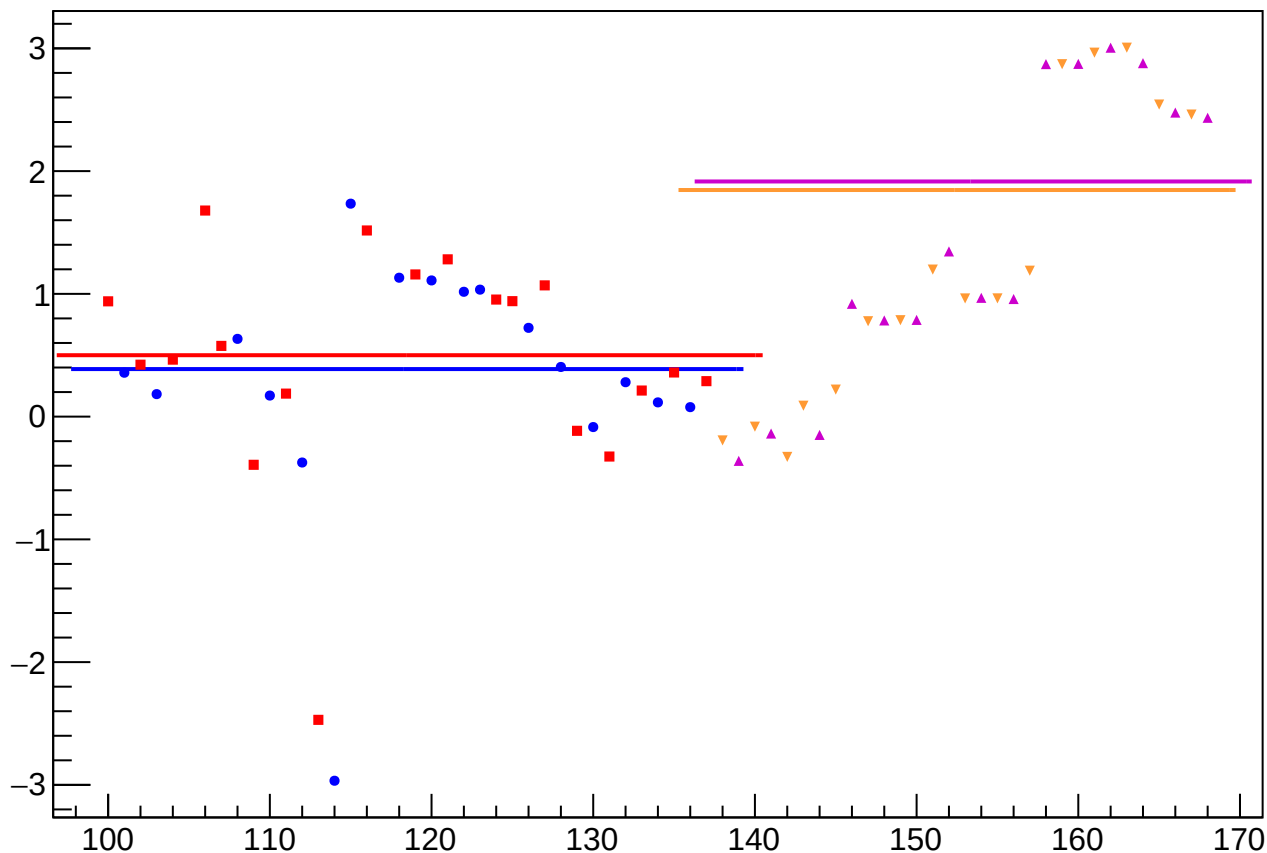
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1656815.3/31

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1760263.4/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3420450.8/66

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.846 $\pm$ 0.000 χ^2/NDF :26000003887.6/15

Right Out: 0.500 $\pm$ 0.000 χ^2/NDF : 983360928.1/18

Left In: 1.916 $\pm$ 0.000 χ^2/NDF :27754313046.6/14

Left: 1.883 $\pm$ 0.000 χ^2/NDF : 53825863541.8/30

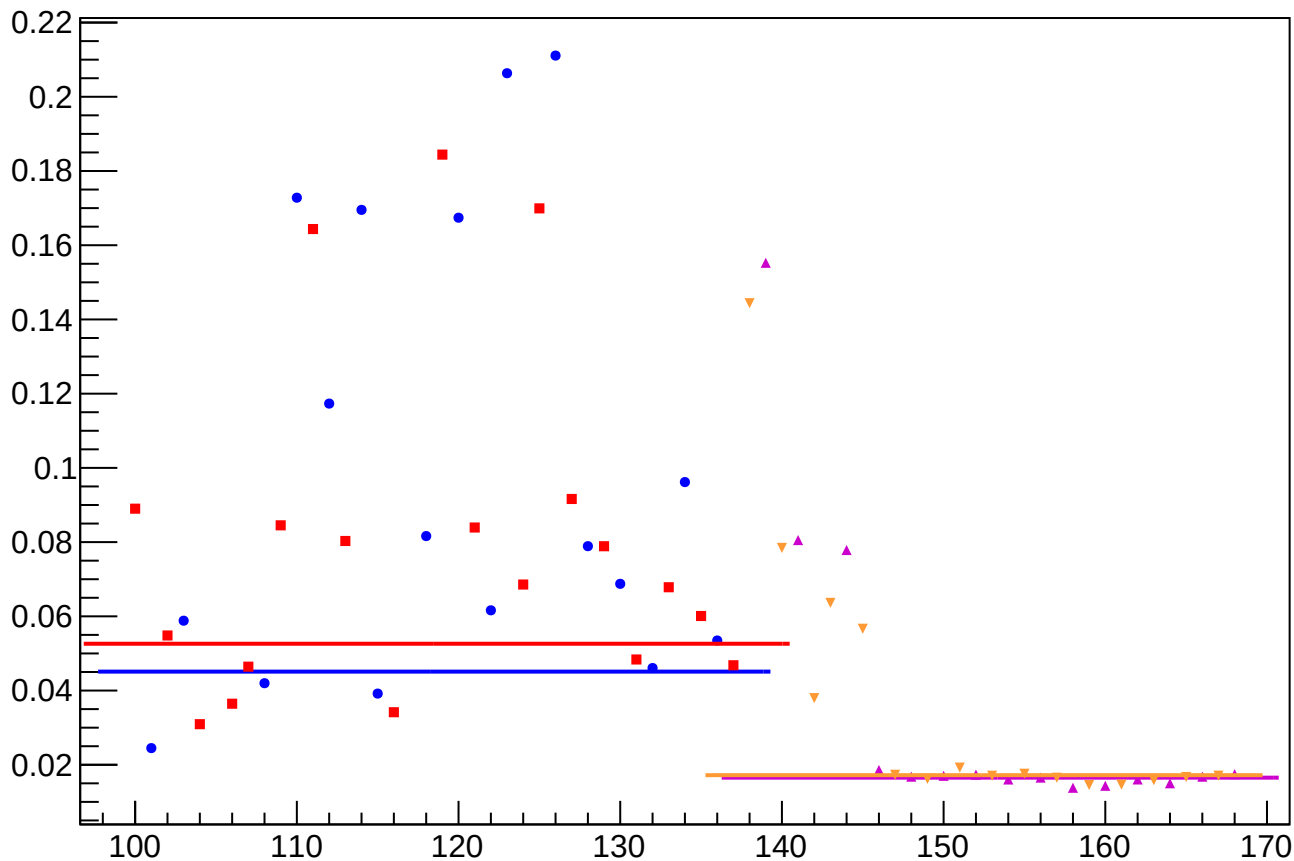
Right: 0.439 $\pm$ 0.000 χ^2/NDF : 1241544973.3/35

In: 1.834 $\pm$ 0.000 χ^2/NDF :31869110225.0/31

Out: 1.778 $\pm$ 0.000 χ^2/NDF :29550637708.6/34

All: 1.808 $\pm$ 0.000 χ^2/NDF : 61468335366.8/6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2846218.9/16

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2729635.4/15

Right Out: 0.053 $\pm$ 0.000 χ^2 /NDF: 2190515.9/18

Left In: 0.017 $\pm$ 0.000 χ^2 /NDF:2340212.7/14

Left: 0.017 $\pm$ 0.000 χ^2 /NDF: 5082970.4/30

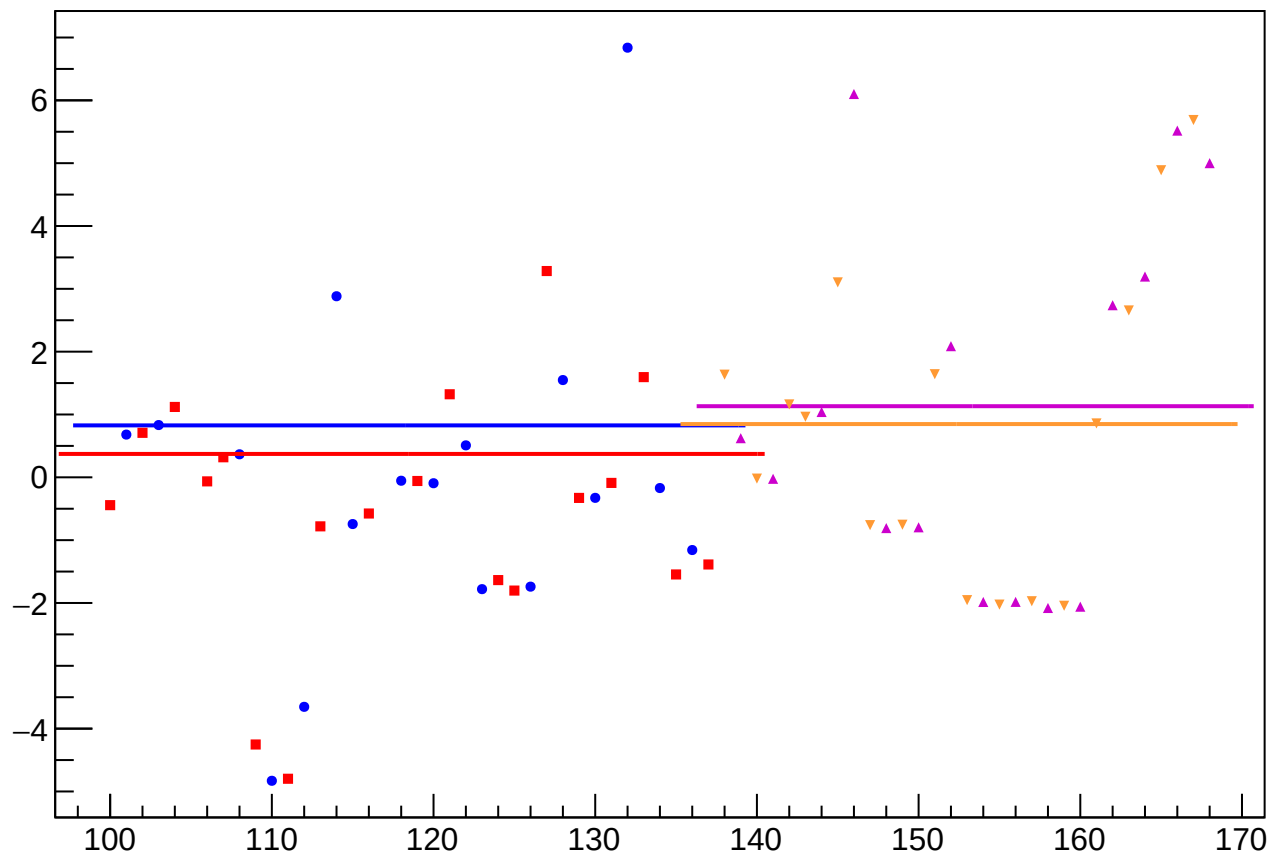
Right: 0.049 $\pm$ 0.000 χ^2 /NDF: 5127581.4/35

In: 0.018 $\pm$ 0.000 χ^2 /NDF:7889960.8/31

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:8476658.8/34

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 16393323.4/66

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827 ± 0.000 $\chi^2/\text{NDF}: 10936458870.4/16$

Left Out: 0.848 ± 0.000 $\chi^2/\text{NDF}: 361515688049.5/15$

Right Out: 0.372 ± 0.000 $\chi^2/\text{NDF}: 4972900338.2/18$

Left In: 1.132 ± 0.000 $\chi^2/\text{NDF}: 475102866933.6/14$

Left: 0.996 ± 0.000 $\chi^2/\text{NDF}: 838546008227.7/30$

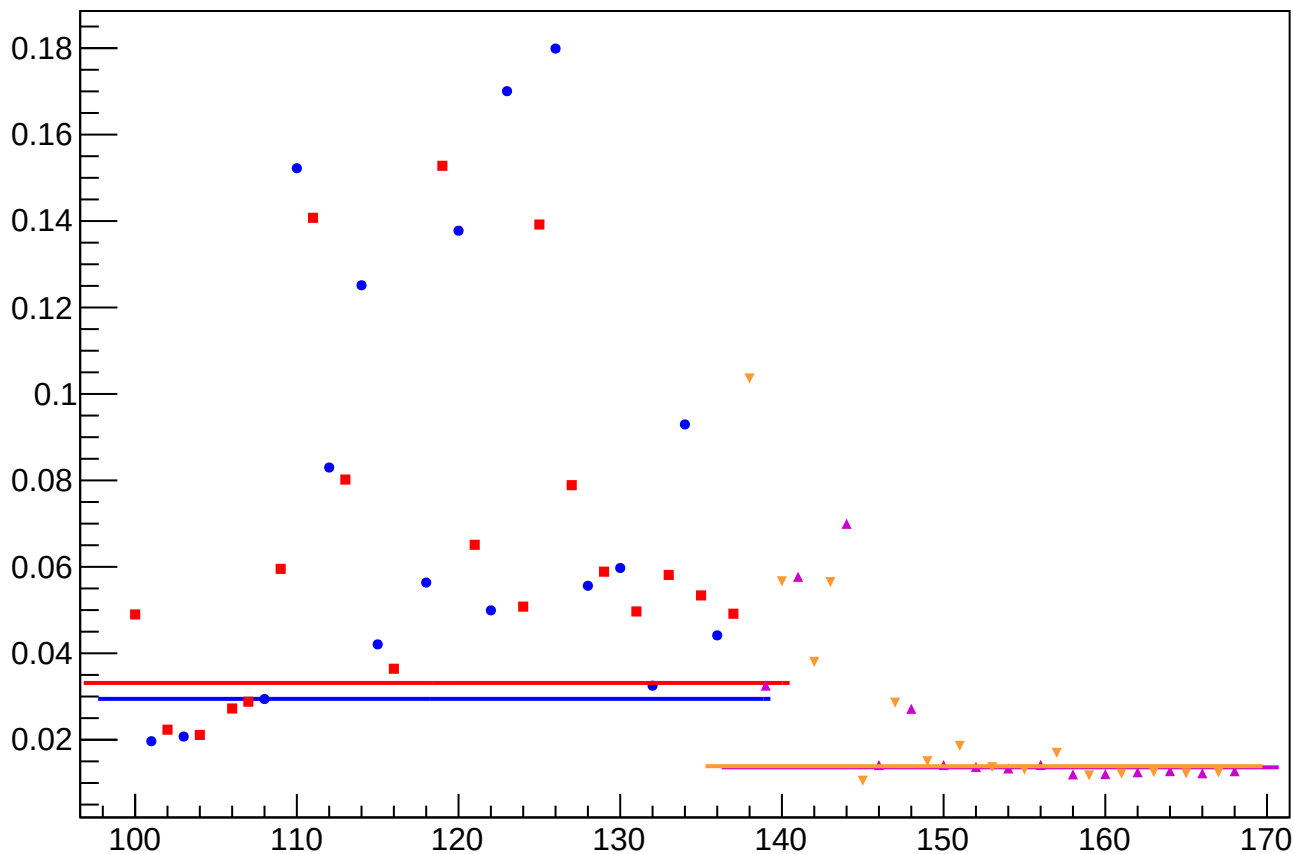
Right: 0.613 ± 0.000 $\chi^2/\text{NDF}: 16291516809.6/35$

In: 1.110 ± 0.000 $\chi^2/\text{NDF}: 486379624261.2/31$

Out: 0.814 ± 0.000 $\chi^2/\text{NDF}: 367222751501.9/34$

All: 0.968 ± 0.000 $\chi^2/\text{NDF}: 855850137535.8$

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 :2836387.4/15

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.014+/-0.000 χ^2/NDF :1869811.2/14

Left: 0.014+/-0.000 χ^2/NDF : 4709533.8/30

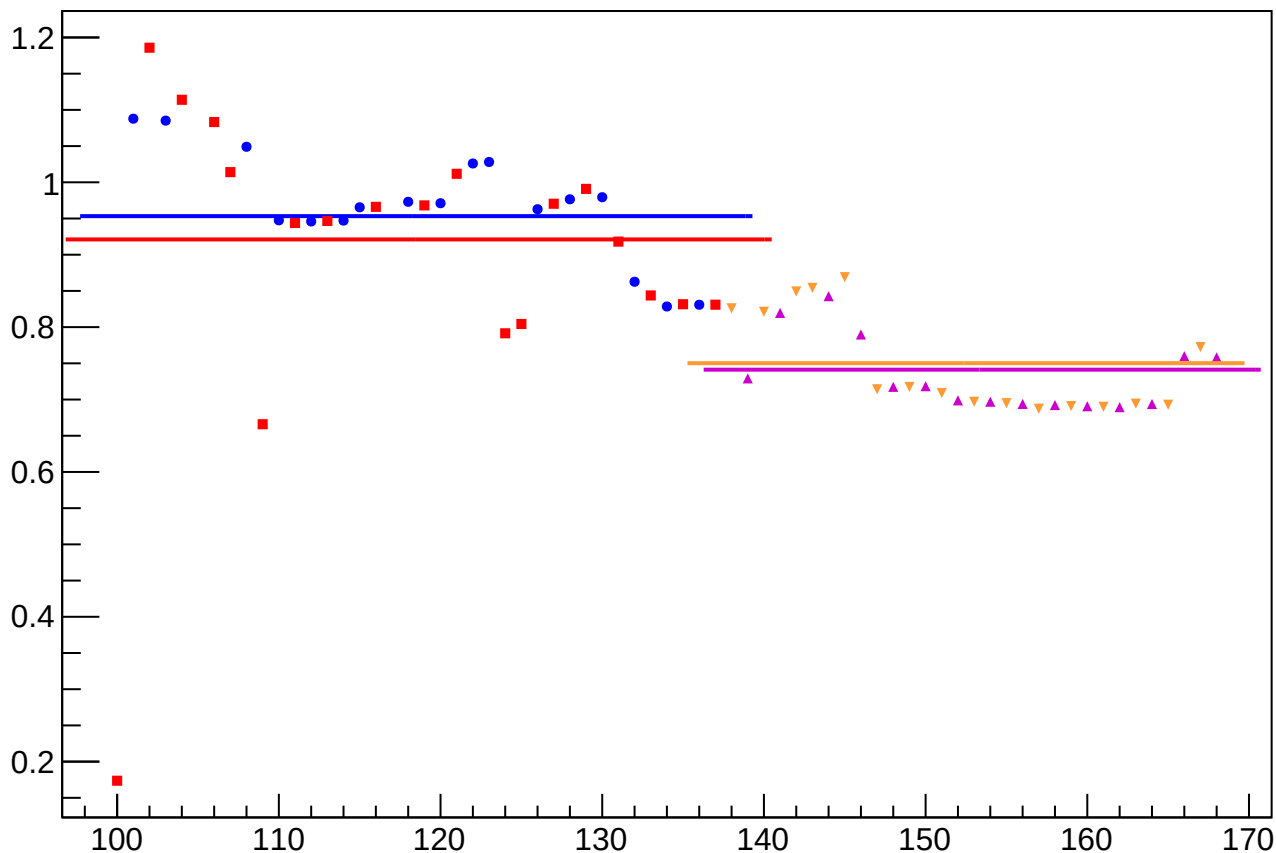
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6754595.1/31

Out: 0.015+/-0.000 χ^2/NDF :8345820.3/34

All: 0.015+/-0.000 χ^2/NDF : 15111992.9/66

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953 $\pm$ 0.000 χ^2 /NDF: 175396553.4/16

Left Out: 0.750 $\pm$ 0.000 χ^2 /NDF:259727474.2/15

Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 374221279.1/18

Left In: 0.741 $\pm$ 0.000 χ^2 /NDF:156428304.7/14

Left: 0.746 $\pm$ 0.000 χ^2 /NDF: 418389662.2/30

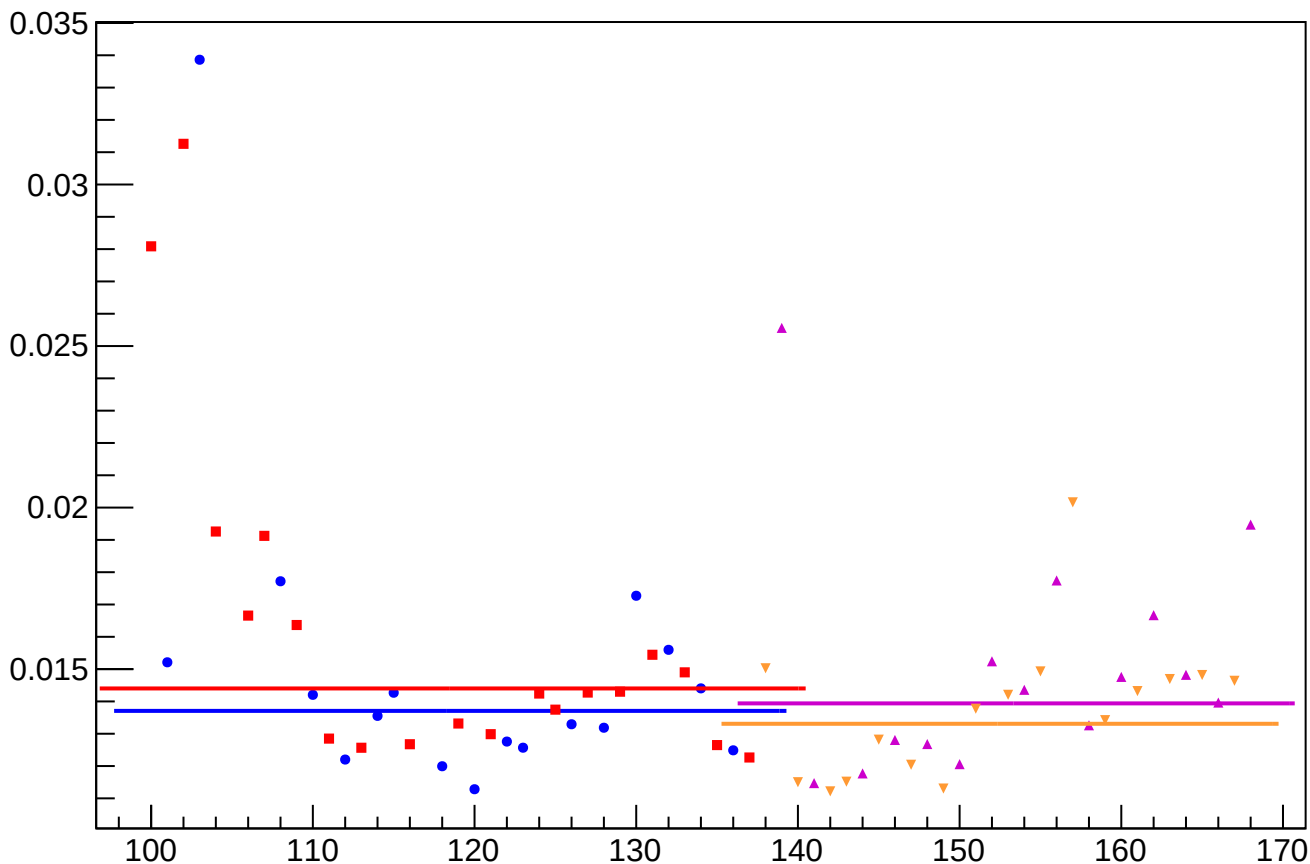
Right: 0.938 $\pm$ 0.000 χ^2 /NDF: 565209467.5/35

In: 0.820 $\pm$ 0.000 χ^2 /NDF:1208277682.4/31

Out: 0.808 $\pm$ 0.000 χ^2 /NDF:1202127717.3/34

All: 0.814 $\pm$ 0.000 χ^2 /NDF: 2416477966.2/66

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 546317.6/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:366348.8/15

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 501768.8/18

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:702628.5/14

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1090956.6/30

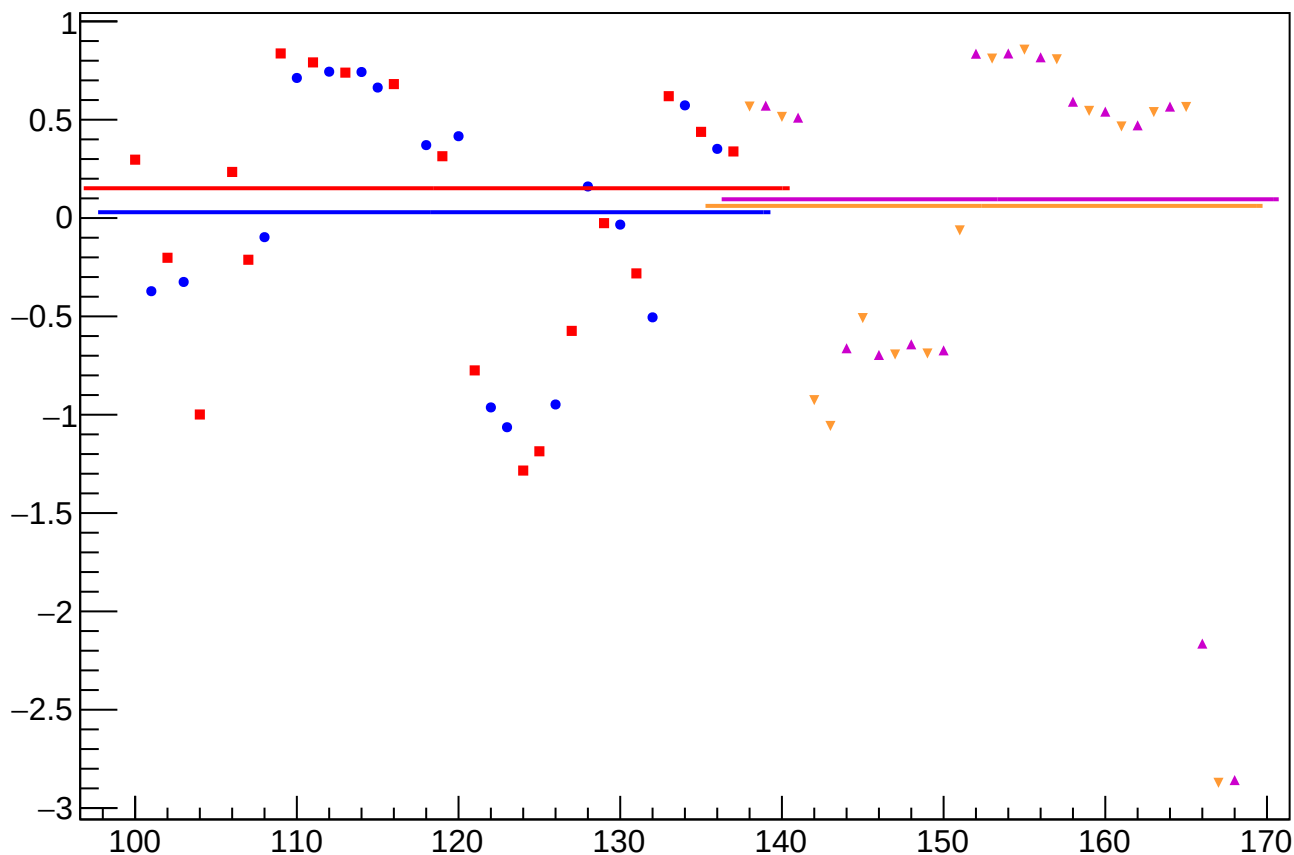
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 1062610.4/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:1251046.0/31

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:914688.7/34

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 2168413.9/66

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 6294824795.0/16

Left: 0.078+/-0.000 χ^2/NDF : 134129242934.0/30

Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

Left Out: 0.062+/-0.000

χ^2/NDF : 62258224168.2/15

In: 0.079+/-0.000 χ^2/NDF : 78202131429.1/31

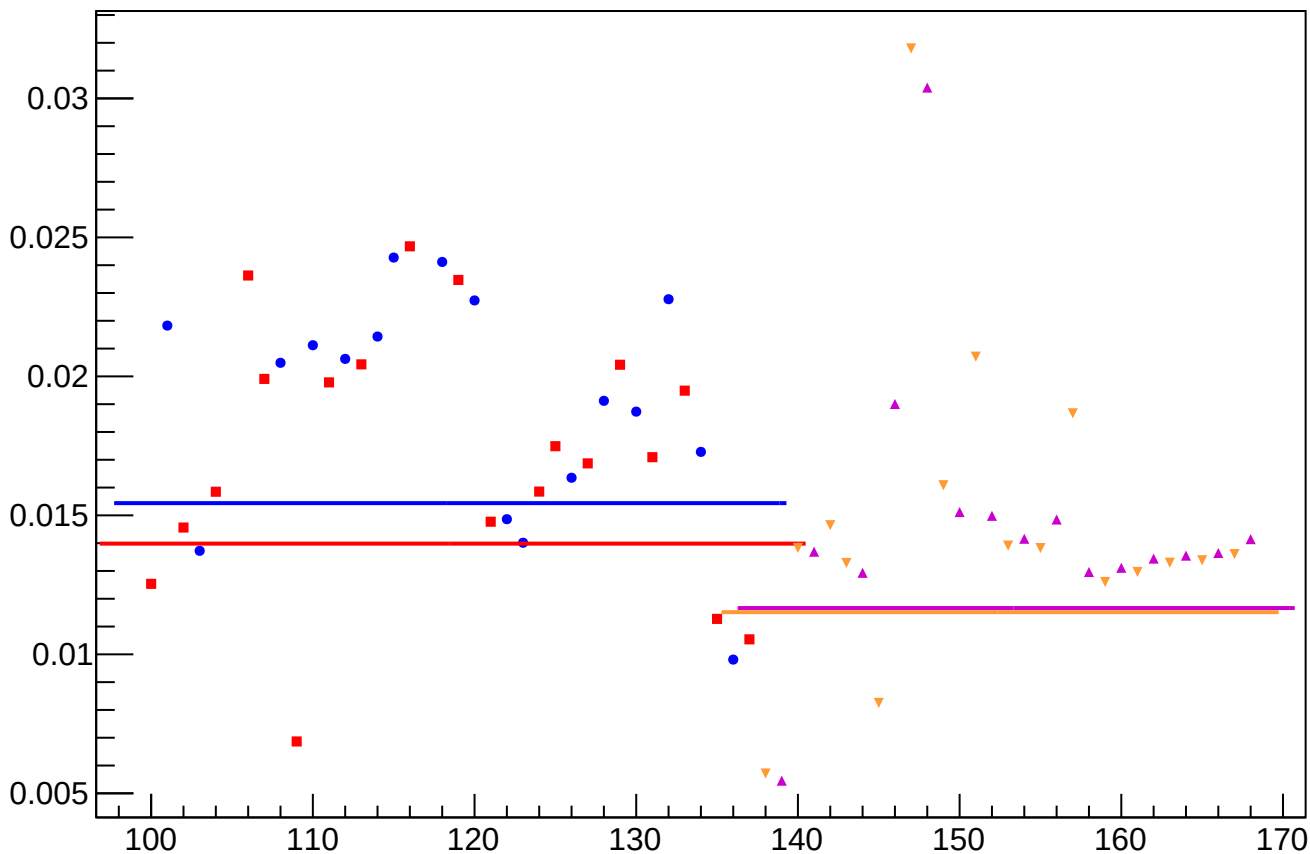
Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Out: 0.087+/-0.000 χ^2/NDF : 75085484458.1/34

Left In: 0.095+/-0.000 χ^2/NDF : 71830182361.6/14

All: 0.083+/-0.000 χ^2/NDF : 153290784787.1

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 : 2939493.1/15

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2916832.9/14

Left: 0.012+/-0.000 χ^2/NDF : 5857912.4/30

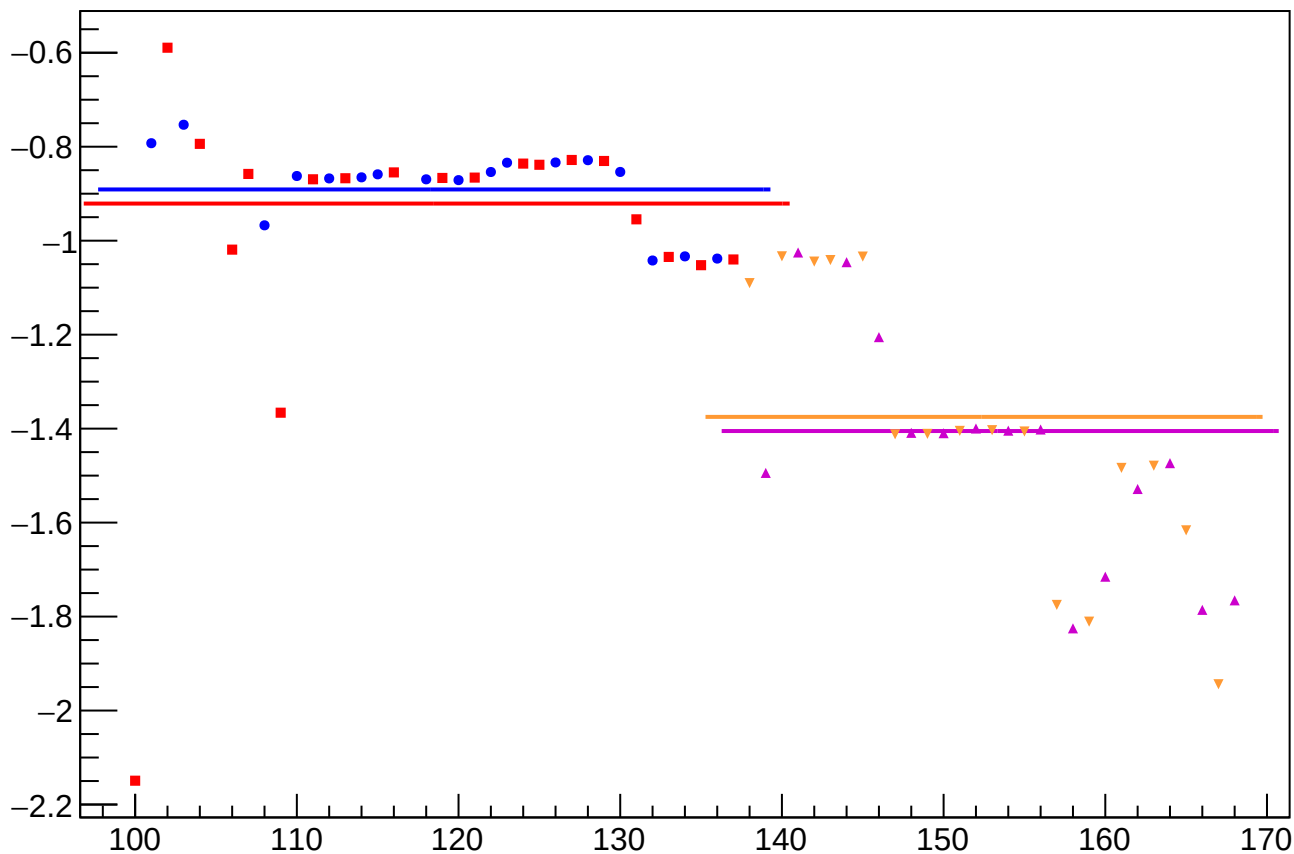
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4586097.5/31

Out: 0.012+/-0.000 χ^2/NDF : 4750612.4/34

All: 0.012+/-0.000 χ^2/NDF : 9352079.3/66

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.375+/-0.000 χ^2/NDF : 646430393.0/15

Right Out: -0.921+/-0.000 χ^2/NDF : 131183059.9/18

Left In: -1.405+/-0.000 χ^2/NDF : 509097276.2/14

Left: -1.389+/-0.000 χ^2/NDF : 1159296150.2/30

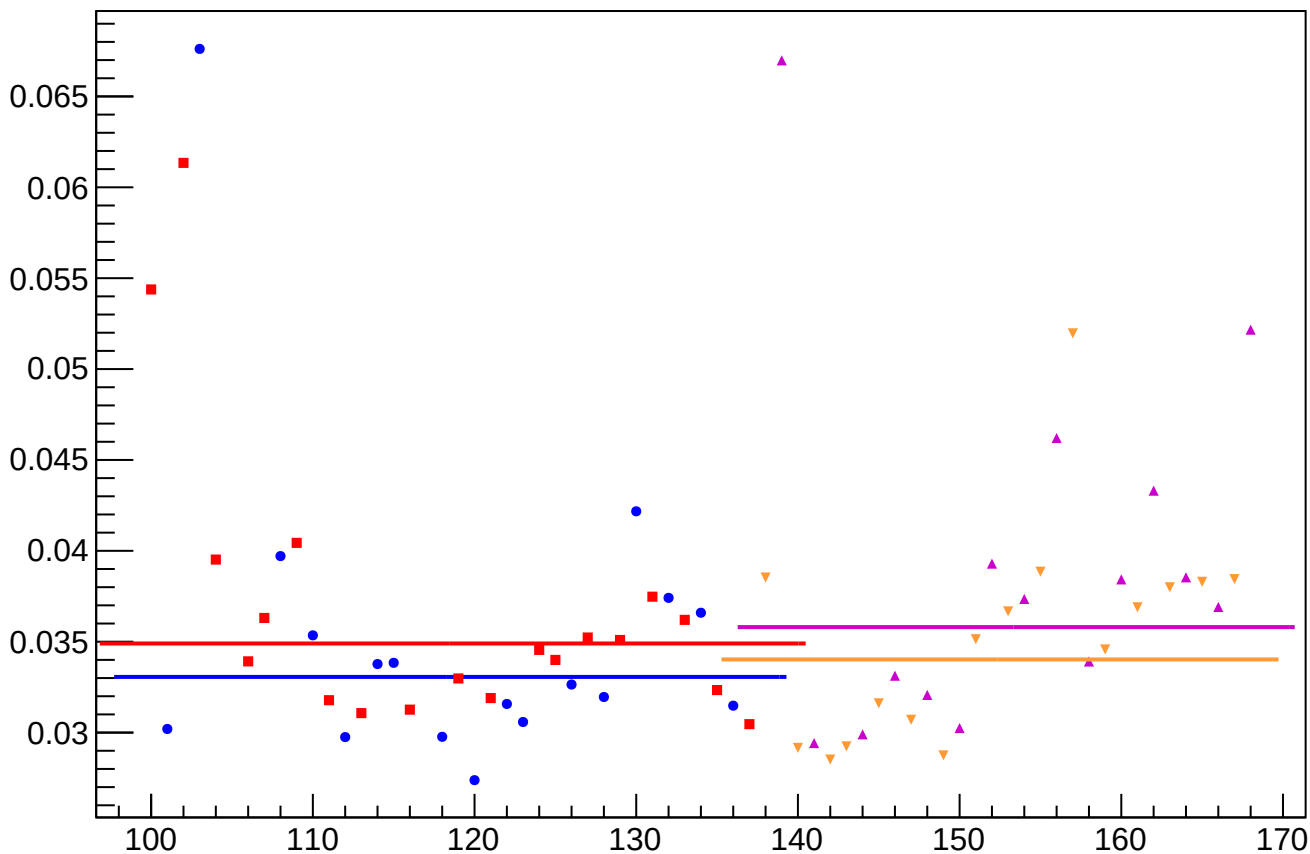
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.197+/-0.000 χ^2/NDF : 1394047814.5/31

Out: -1.209+/-0.000 χ^2/NDF : 1437969193.4/34

All: -1.203+/-0.000 χ^2/NDF : 2832954581.6/6

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 : 406543.4/15

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.036+/-0.000 χ^2/NDF : 785768.1/14

Left: 0.035+/-0.000 χ^2/NDF : 1218649.2/30

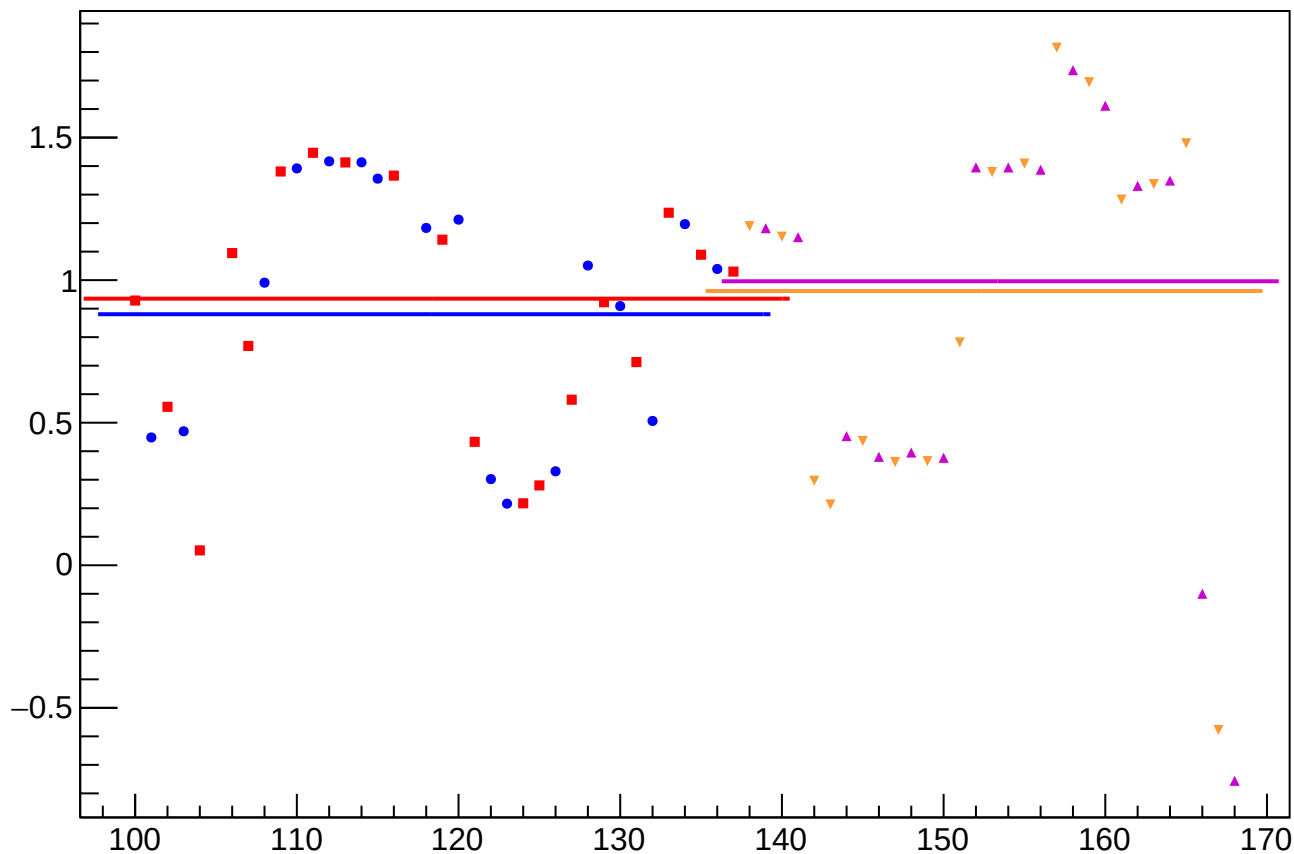
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF : 1243131.4/31

Out: 0.034+/-0.000 χ^2/NDF : 685759.7/34

All: 0.035+/-0.000 χ^2/NDF : 1930546.3/66

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2/NDF : 6400108121.4/16

Left Out: 0.962 $\pm$ 0.000 χ^2/NDF : 53581444106.9/15

Right Out: 0.935 $\pm$ 0.000 χ^2/NDF : 9833525935.6/18

Left In: 0.996 $\pm$ 0.000 χ^2/NDF : 57113570455.4/14

Left: 0.979 $\pm$ 0.000 χ^2/NDF : 110775252885.1/30

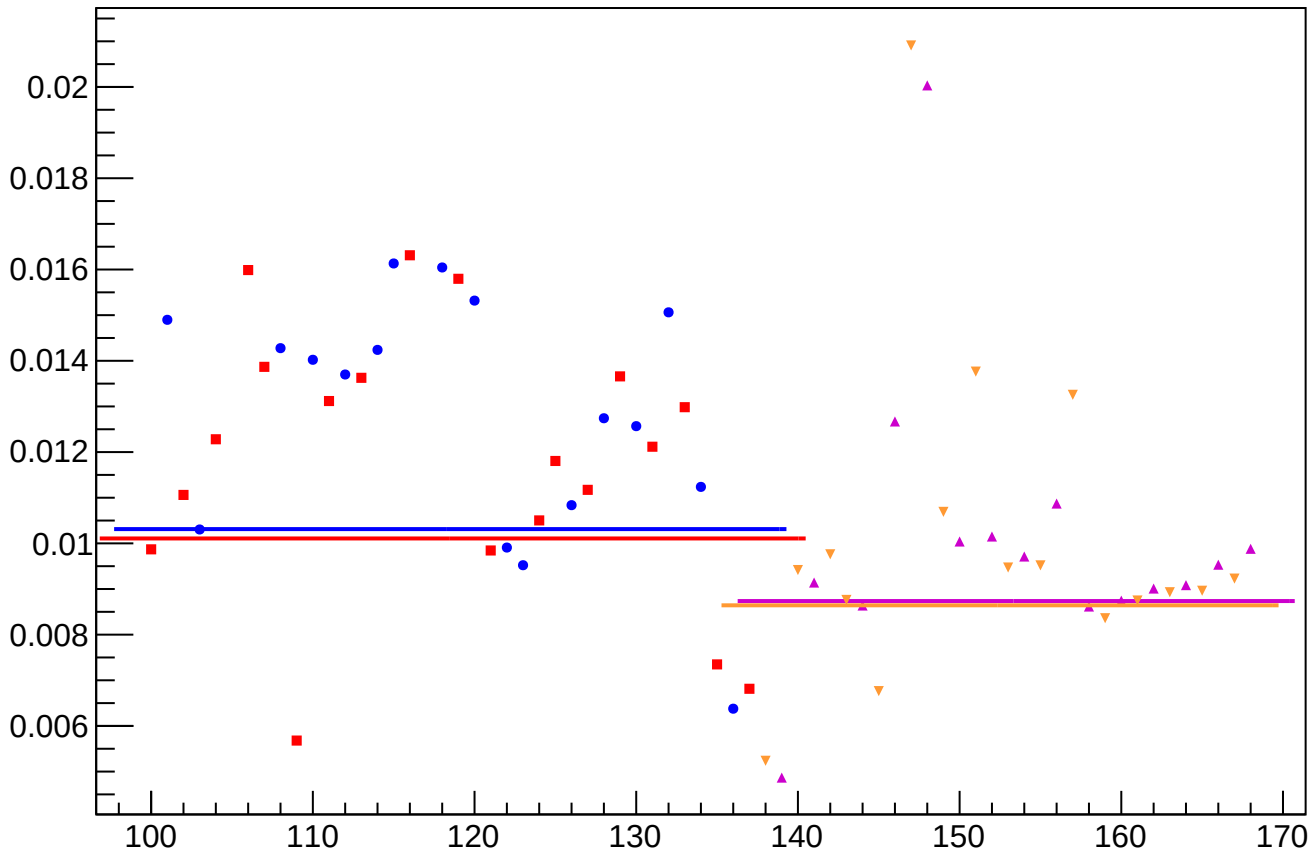
Right: 0.909 $\pm$ 0.000 χ^2/NDF : 16315238009.2/35

In: 0.964 $\pm$ 0.000 χ^2/NDF : 64020942346.9/31

Out: 0.954 $\pm$ 0.000 χ^2/NDF : 63444398849.6/34

All: 0.959 $\pm$ 0.000 χ^2/NDF : 127474177796.9

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 :1664228.5/15

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1591881.6/14

Left: 0.009+/-0.000 χ^2/NDF : 3257319.0/30

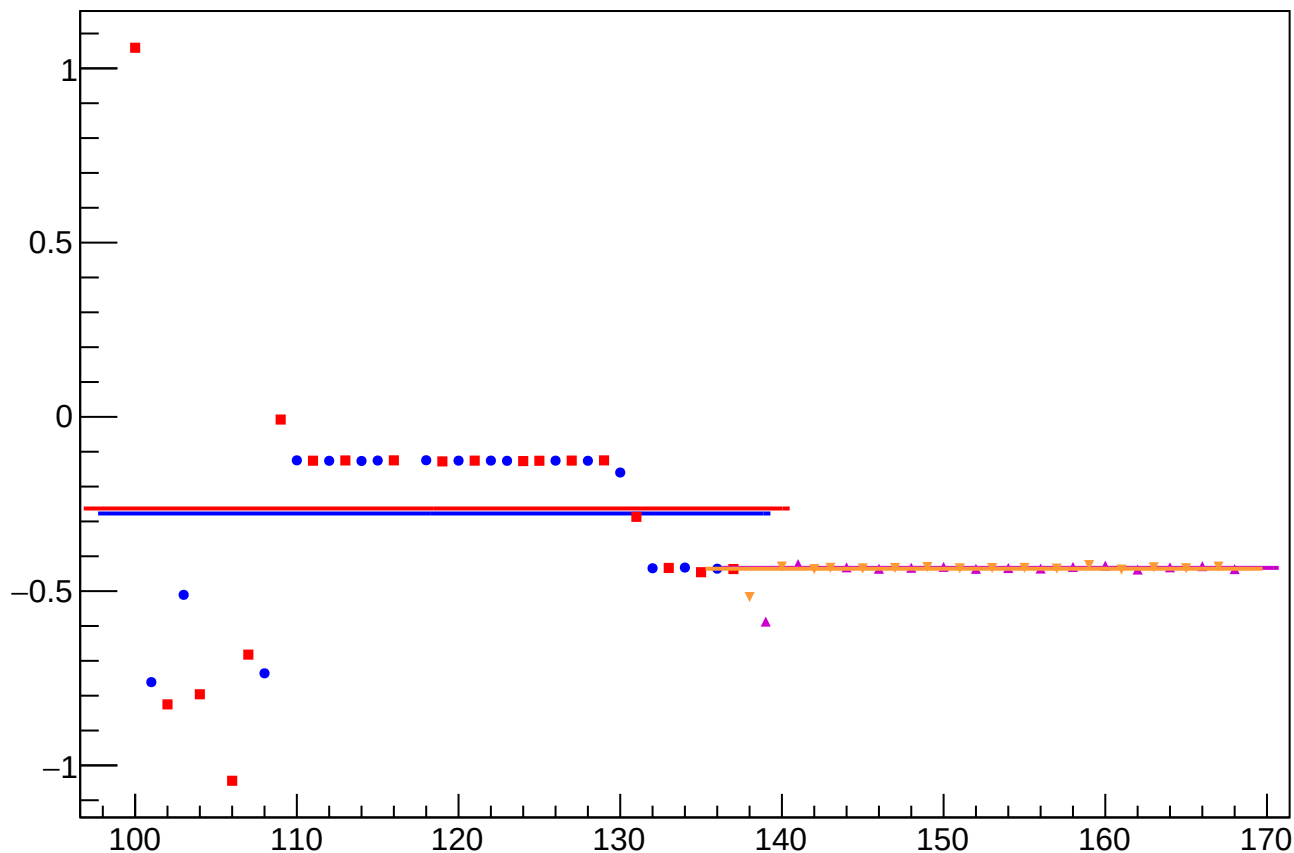
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3011864.9/31

Out: 0.009+/-0.000 χ^2/NDF :3017044.9/34

All: 0.009+/-0.000 χ^2/NDF : 6031275.0/66

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 : 25880532.0/15

Right Out: -0.263 ± 0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433 ± 0.000 χ^2/NDF : 23565033.6/14

Left: -0.434 ± 0.000 χ^2/NDF : 49754468.4/30

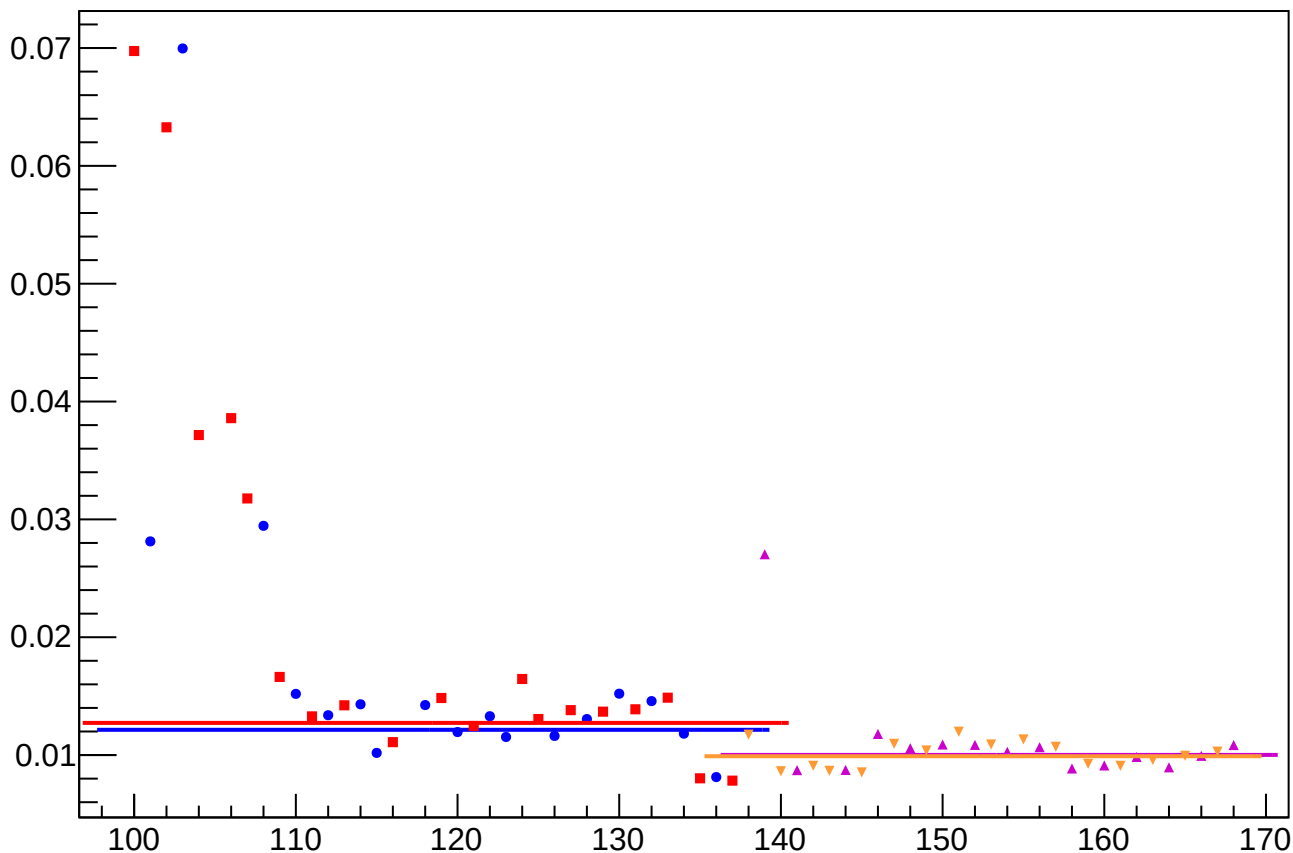
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.394 ± 0.000 χ^2/NDF : 1548999436.0/31

Out: -0.396 ± 0.000 χ^2/NDF : 1722936709.0/34

All: -0.395 ± 0.000 χ^2/NDF : 3272124771.9/6

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:226234.5/15

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:703314.5/14

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 930804.0/30

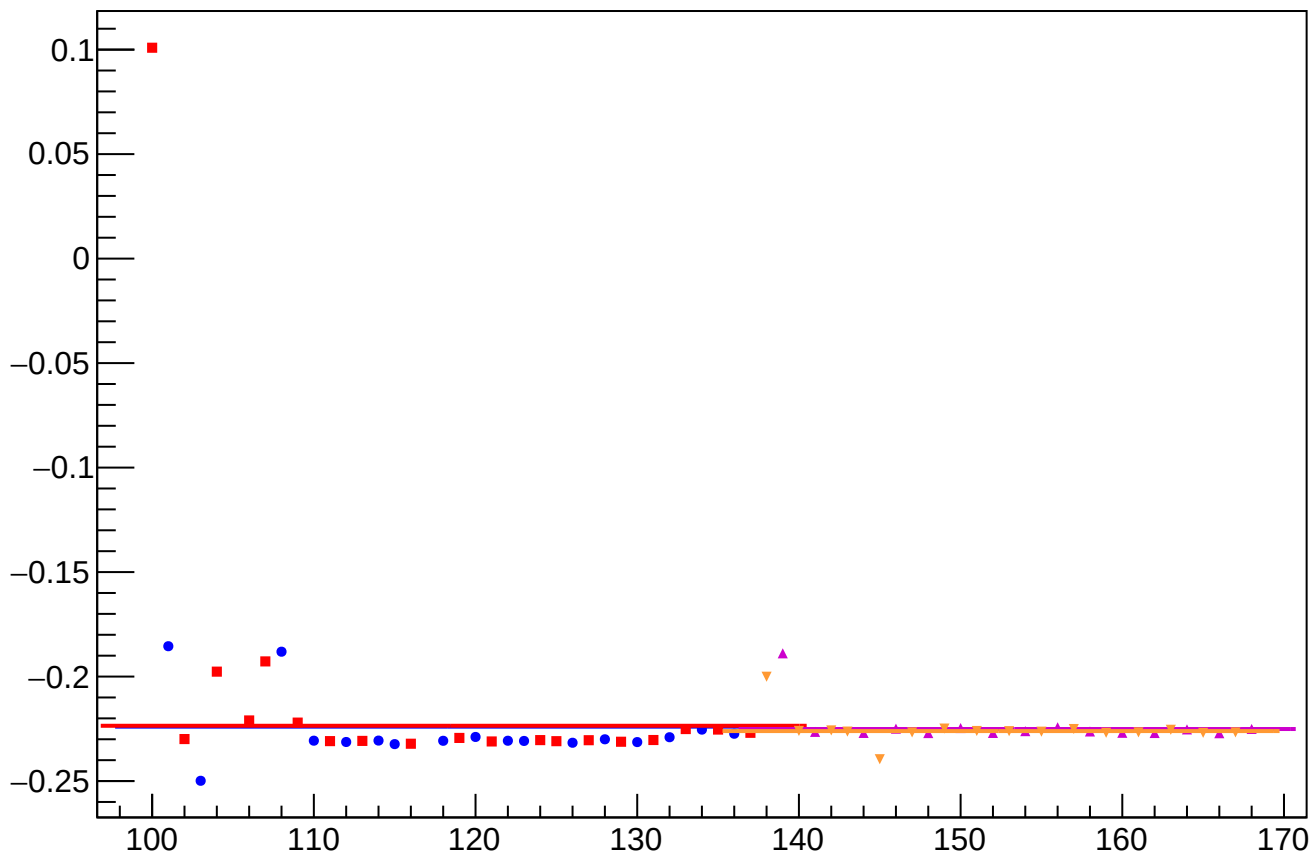
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2648724.6/31

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2564303.3/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5213032.1/66

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 : 20611852.5/15

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225+/-0.000 χ^2/NDF : 14336562.5/14

Left: -0.226+/-0.000 χ^2/NDF : 35145778.0/30

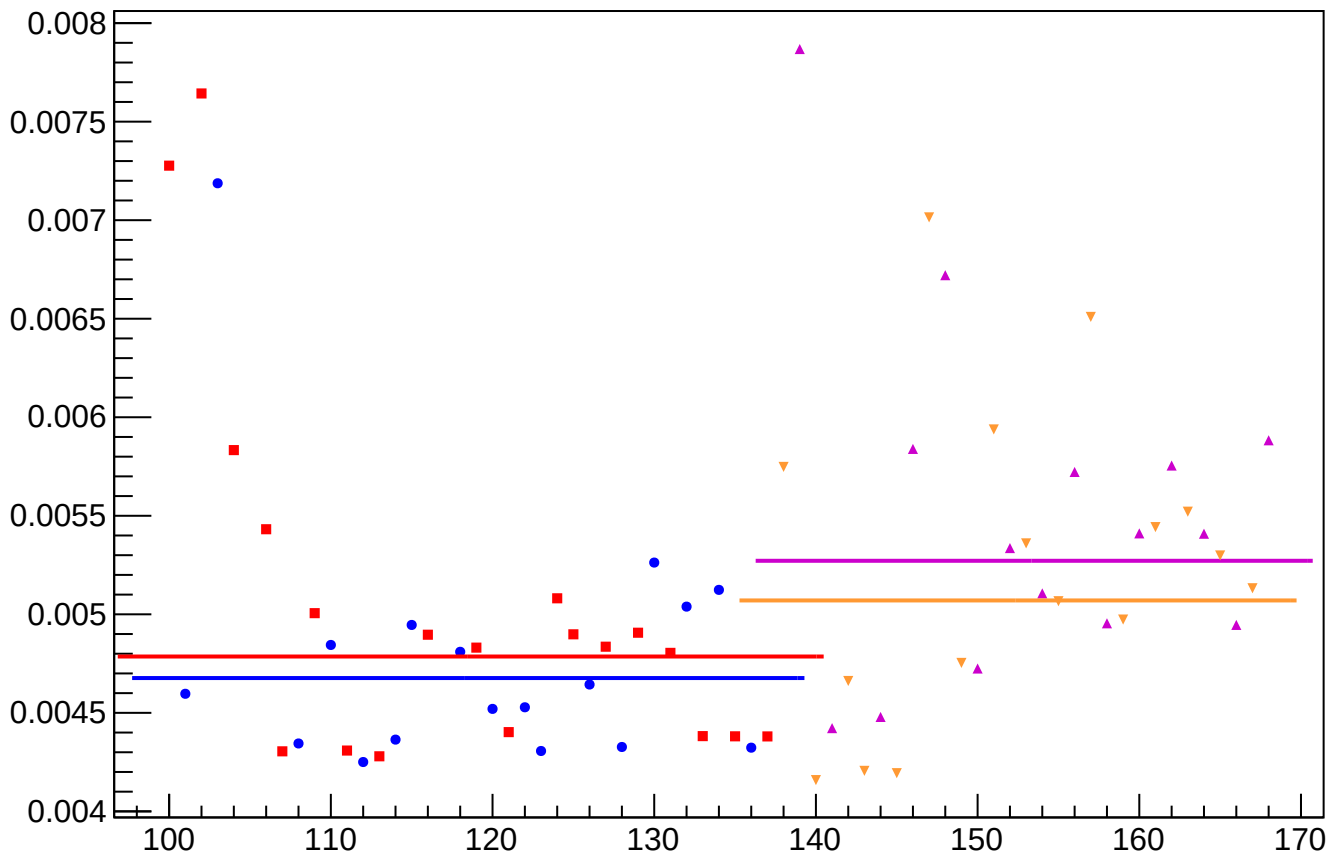
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89255979.5/31

Out: -0.225+/-0.000 χ^2/NDF : 189821515.8/34

All: -0.225+/-0.000 χ^2/NDF : 279148356.9/66

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 : 447744.7/15

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 404629.6/14

Left: 0.005+/-0.000 χ^2/NDF : 868889.9/30

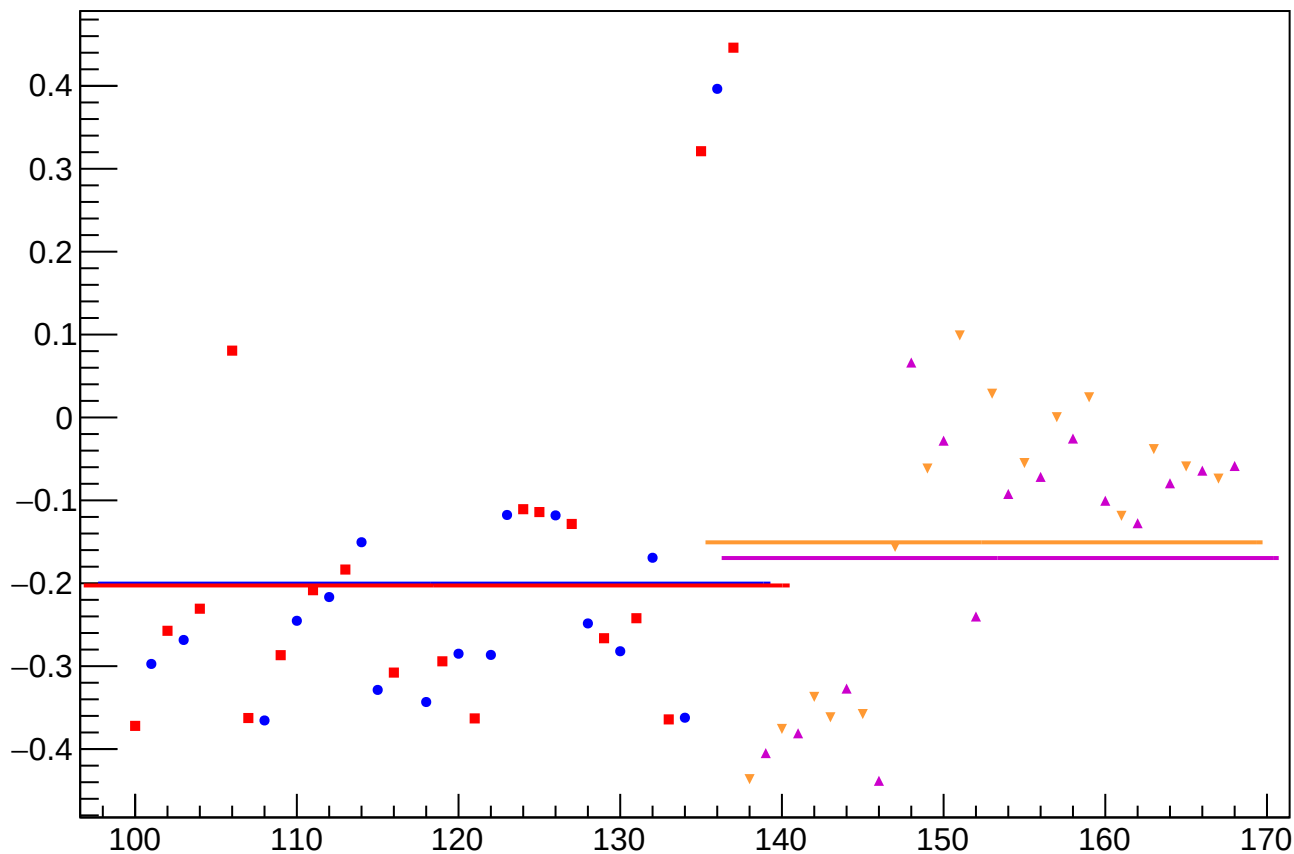
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 700694.2/31

Out: 0.005+/-0.000 χ^2/NDF : 723233.5/34

All: 0.005+/-0.000 χ^2/NDF : 1427098.1/66

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.151+/-0.000 χ^2/NDF : 11174994758.1/15

Right Out: -0.203+/-0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.170+/-0.000 χ^2/NDF : 8231153578.1/14

Left: -0.160+/-0.000 χ^2/NDF : 19472766153.0/30

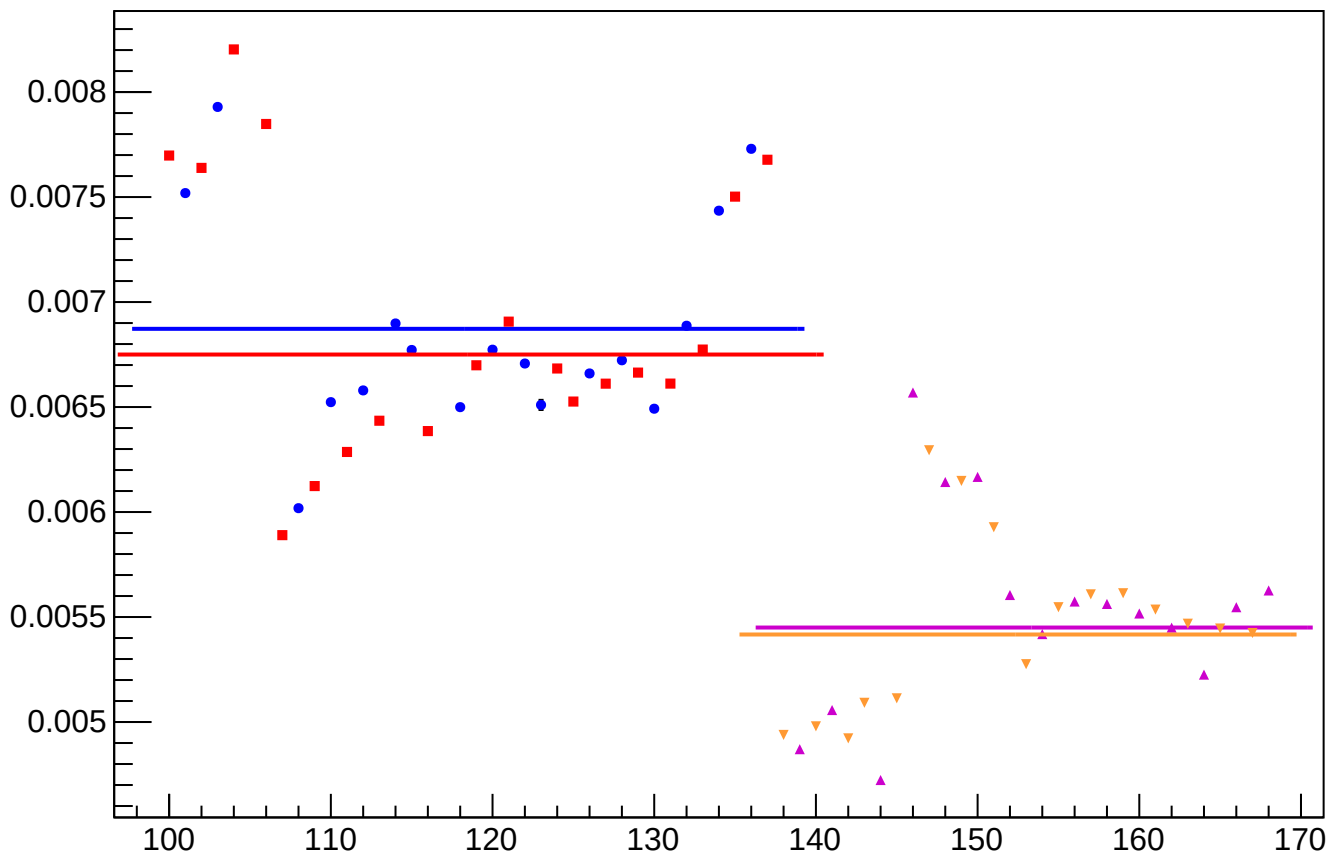
Right: -0.202+/-0.000 χ^2/NDF : 11002181720.9/35

In: -0.178+/-0.000 χ^2/NDF : 14300640380.3/31

Out: -0.165+/-0.000 χ^2/NDF : 16495062285.0/34

All: -0.172+/-0.000 χ^2/NDF : 30836625131.6

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78611.6/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:105572.0/15

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 105124.4/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:147960.3/14

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 253940.2/30

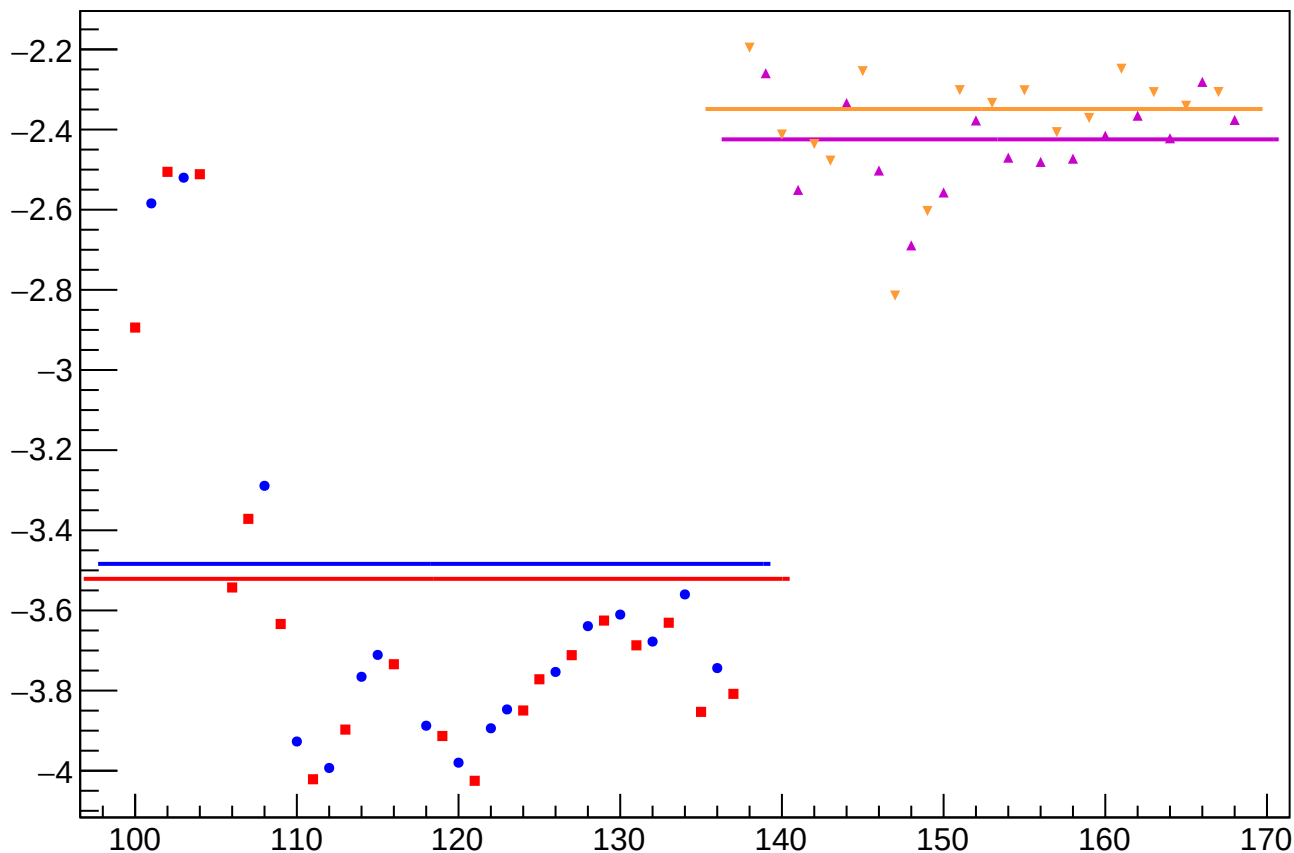
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 185903.4/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:634039.9/31

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:594035.1/34

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1229092.3/66

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.349+/-0.000 χ^2/NDF : 1675521023.4/15

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.424+/-0.000 χ^2/NDF : 1125991316.8/14

Left: -2.386+/-0.000 χ^2/NDF : 3205001598.2/30

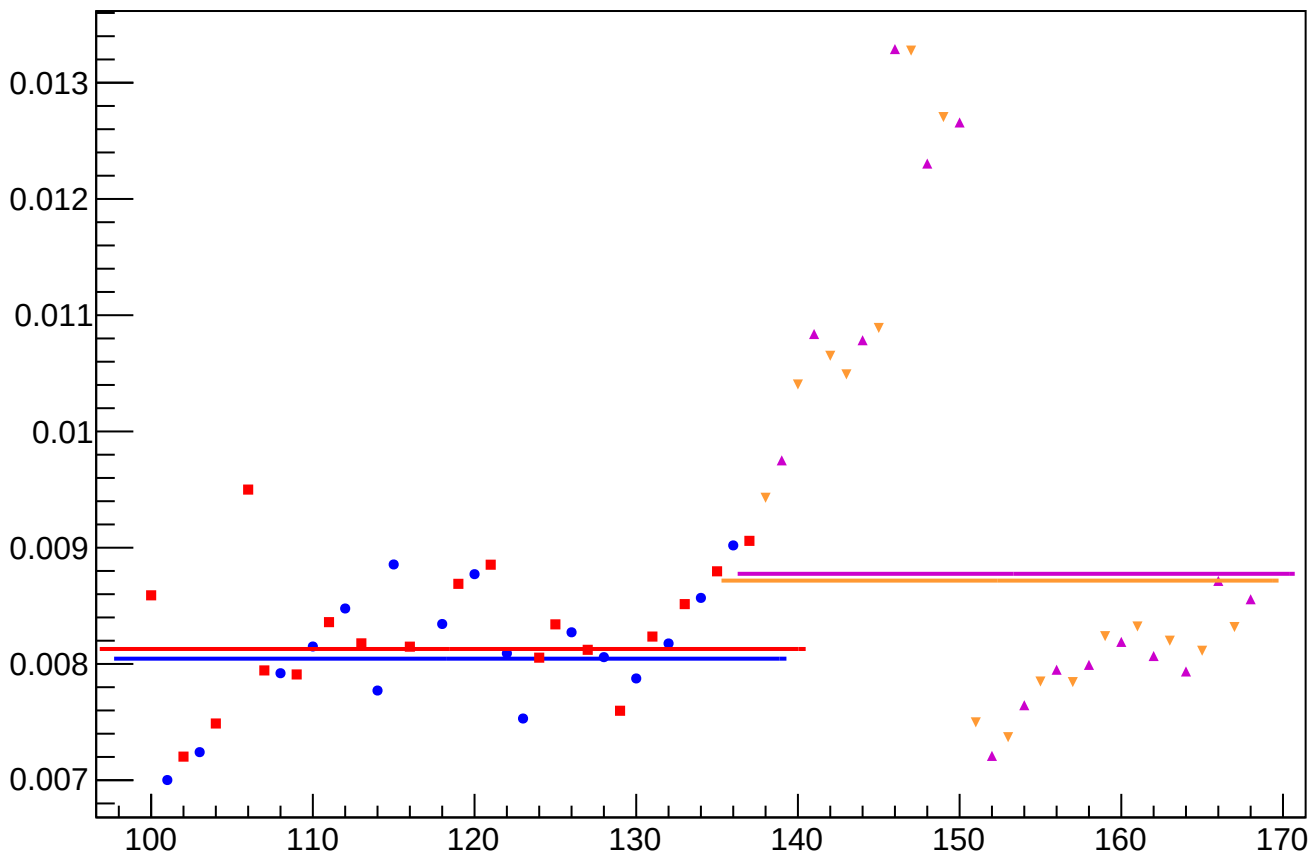
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.870+/-0.000 χ^2/NDF : 93707266833.2/31

Out: -2.839+/-0.000 χ^2/NDF : 110131369987.0/34

All: -2.854+/-0.000 χ^2/NDF : 20395232009.9

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 : 593111.7/15

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 699935.2/14

Left: 0.009+/-0.000 χ^2/NDF : 1293527.9/30

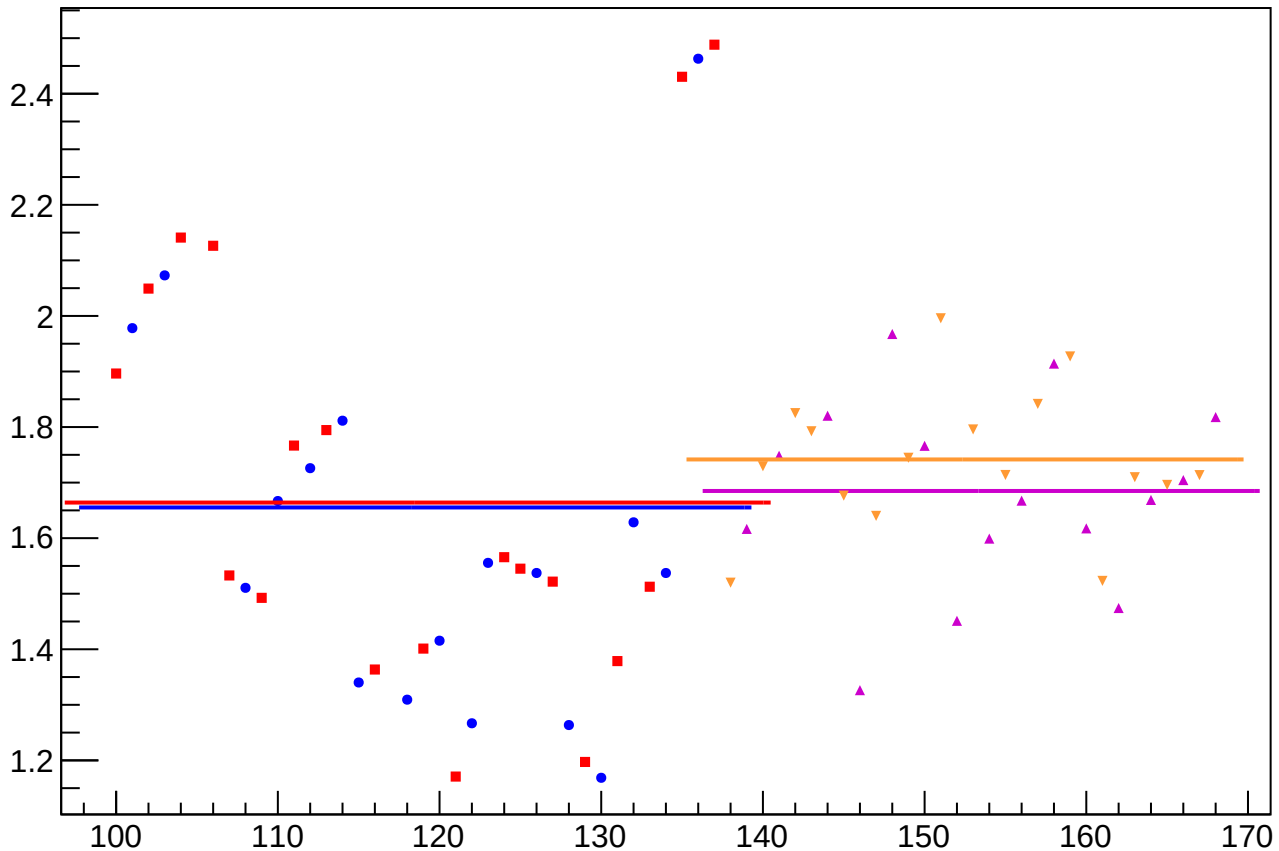
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 834059.7/31

Out: 0.008+/-0.000 χ^2/NDF : 691862.1/34

All: 0.008+/-0.000 χ^2/NDF : 1525923.2/66

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.742+/-0.000 χ^2/NDF :1523208870.0/15

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.685+/-0.000 χ^2/NDF :2395070756.7/14

Left: 1.714+/-0.000 χ^2/NDF : 4073522838.7/30

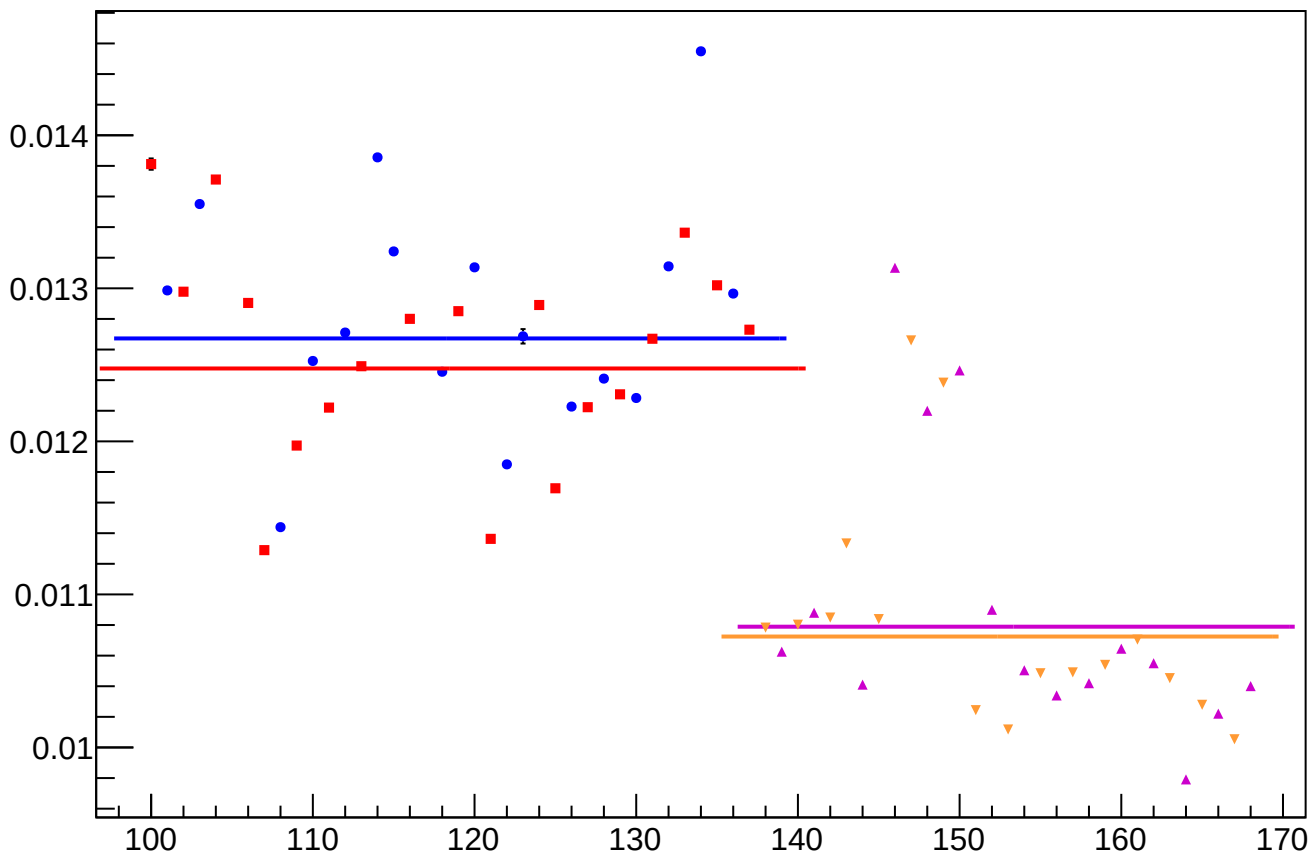
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.676+/-0.000 χ^2/NDF :8896711898.9/31

Out: 1.718+/-0.000 χ^2/NDF :7651050764.9/34

All: 1.697+/-0.000 χ^2/NDF : 16667644091.9/66

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 :84990.0/15

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :119694.9/14

Left: 0.011+/-0.000 χ^2/NDF : 205083.8/30

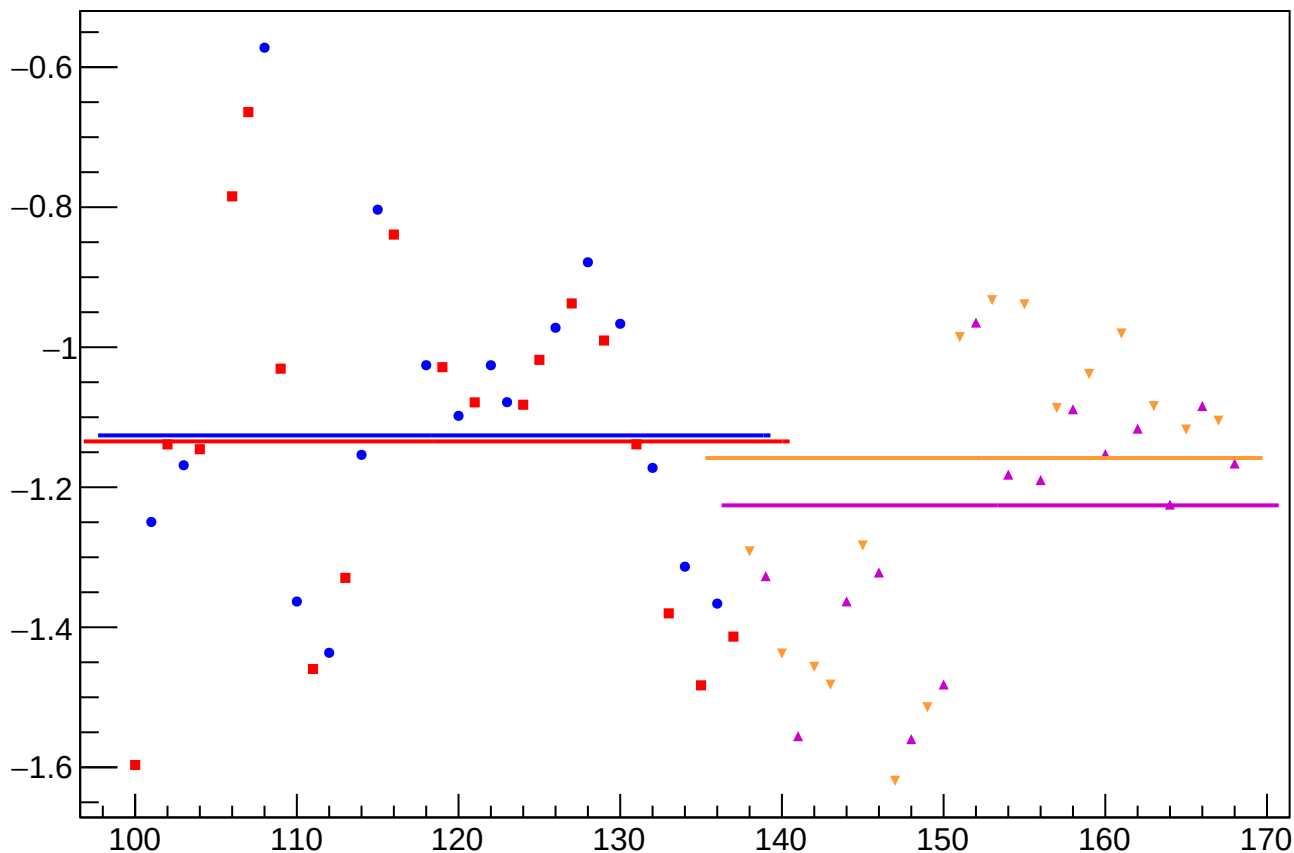
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :354087.0/31

Out: 0.011+/-0.000 χ^2/NDF :311157.5/34

All: 0.011+/-0.000 χ^2/NDF : 666281.8/66

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126 ± 0.000 $\chi^2/\text{NDF}: 3574776639.2/16$

Left Out: -1.158 ± 0.000 $\chi^2/\text{NDF}: 7088748806.3/15$

Right Out: -1.135 ± 0.000 $\chi^2/\text{NDF}: 3677461023.4/18$

Left In: -1.226 ± 0.000 $\chi^2/\text{NDF}: 4458475636.9/14$

Left: -1.191 ± 0.000 $\chi^2/\text{NDF}: 11925685037.6/30$

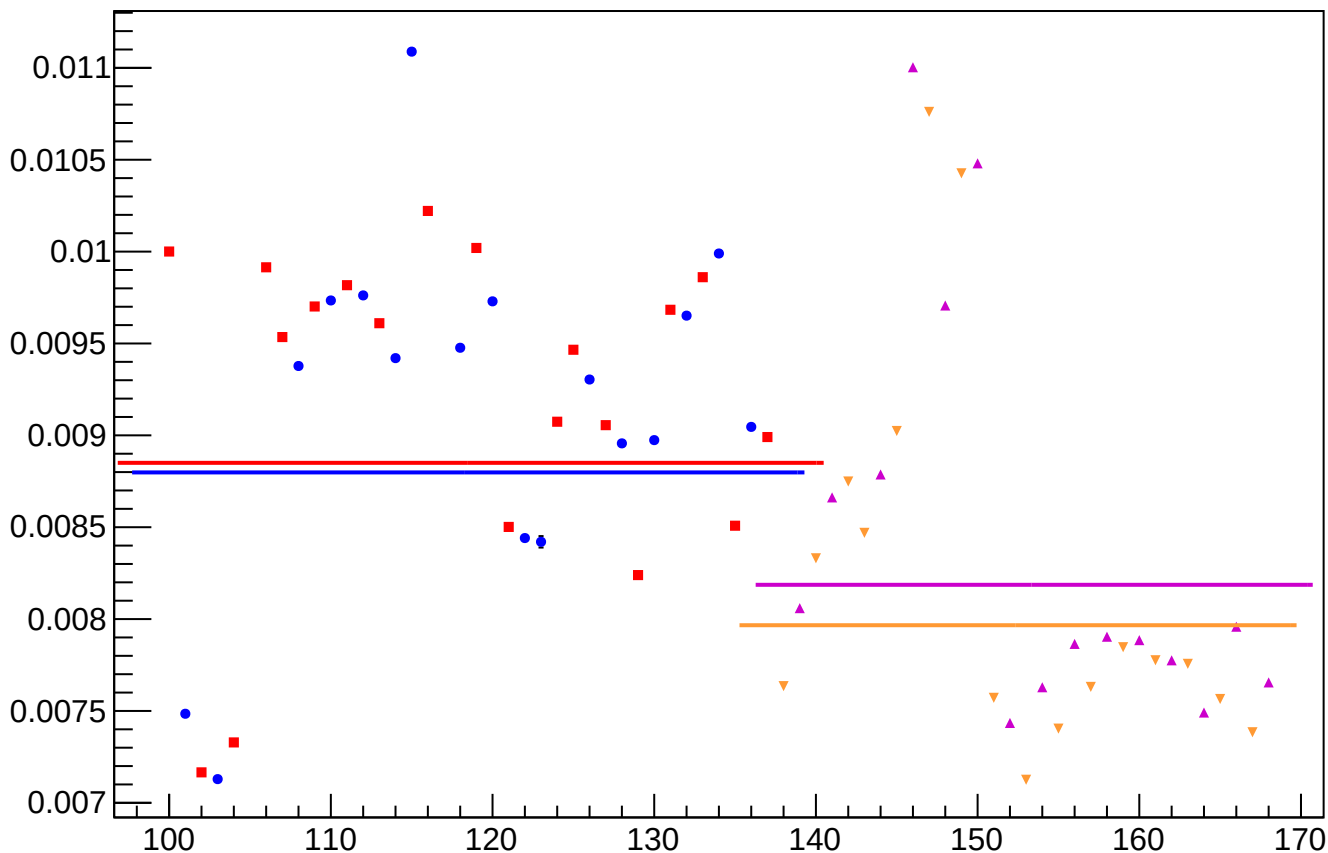
Right: -1.130 ± 0.000 $\chi^2/\text{NDF}: 7255318739.1/35$

In: -1.192 ± 0.000 $\chi^2/\text{NDF}: 8577017167.5/31$

Out: -1.150 ± 0.000 $\chi^2/\text{NDF}: 10797904545.4/34$

All: -1.171 ± 0.000 $\chi^2/\text{NDF}: 19590572083.1/70$

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 :244188.1/15

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF :251186.7/14

Left: 0.008+/-0.000 χ^2/NDF : 503383.3/30

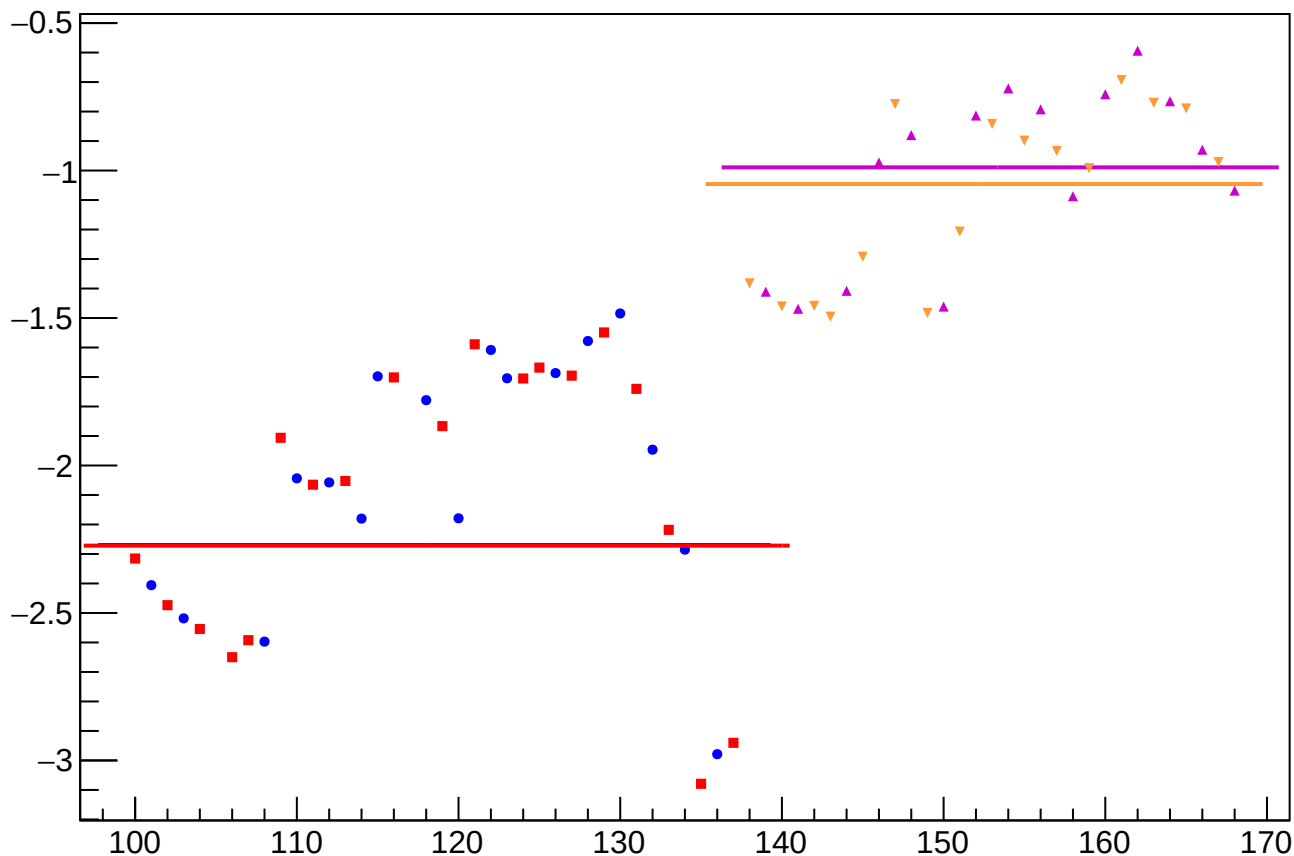
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :443529.3/31

Out: 0.008+/-0.000 χ^2/NDF :506396.2/34

All: 0.008+/-0.000 χ^2/NDF : 954421.8/66

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.046+/-0.000 χ^2/NDF : 17506060793.5/15

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.989+/-0.000 χ^2/NDF : 17928417661.3/14

Left: -1.017+/-0.000 χ^2/NDF : 35827916405.4/30

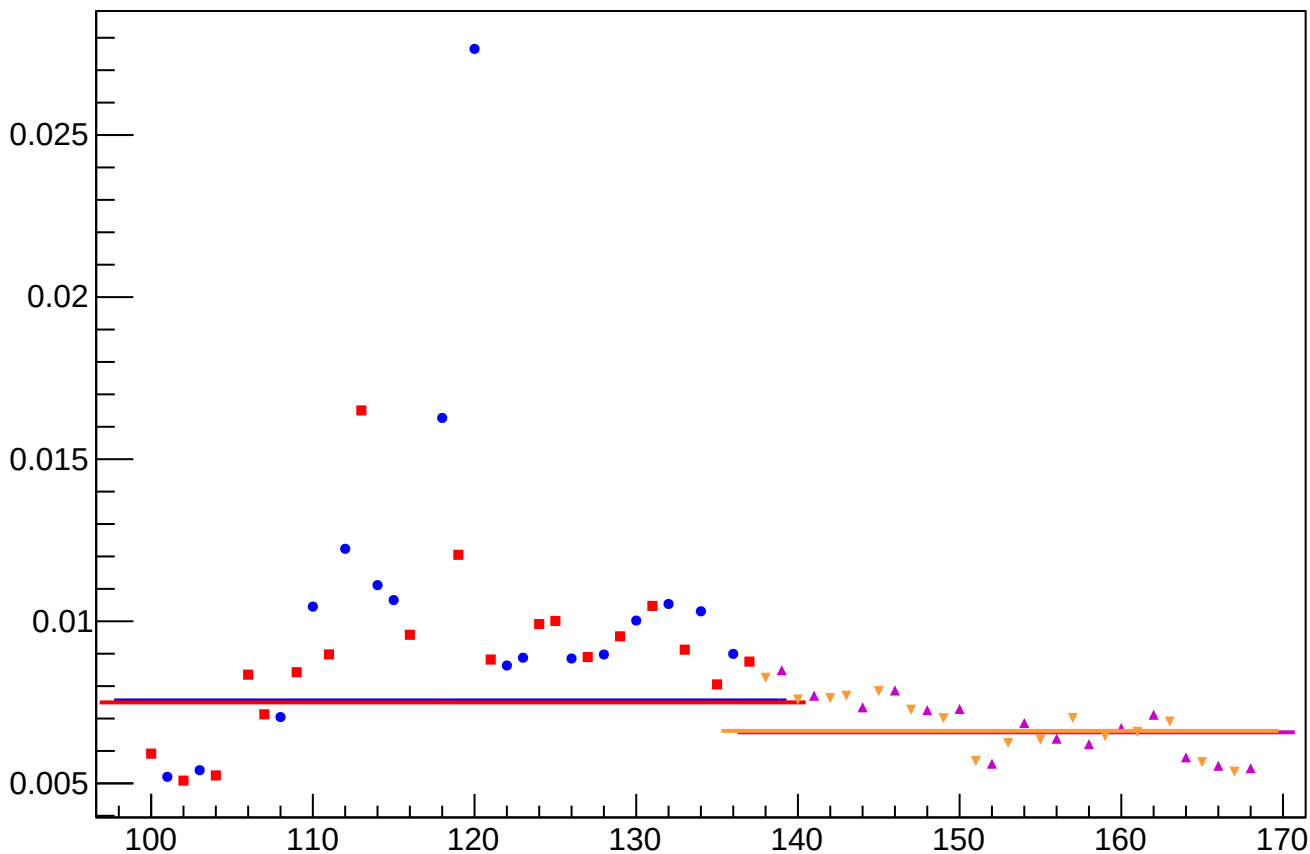
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.326+/-0.000 χ^2/NDF : 141807874747.4/31

Out: -1.402+/-0.000 χ^2/NDF : 142725967732.7/34

All: -1.364+/-0.000 χ^2/NDF : 285504838576.4

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :330503.3/15

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.007+/-0.000 χ^2/NDF :371520.0/14

Left: 0.007+/-0.000 χ^2/NDF : 702492.8/30

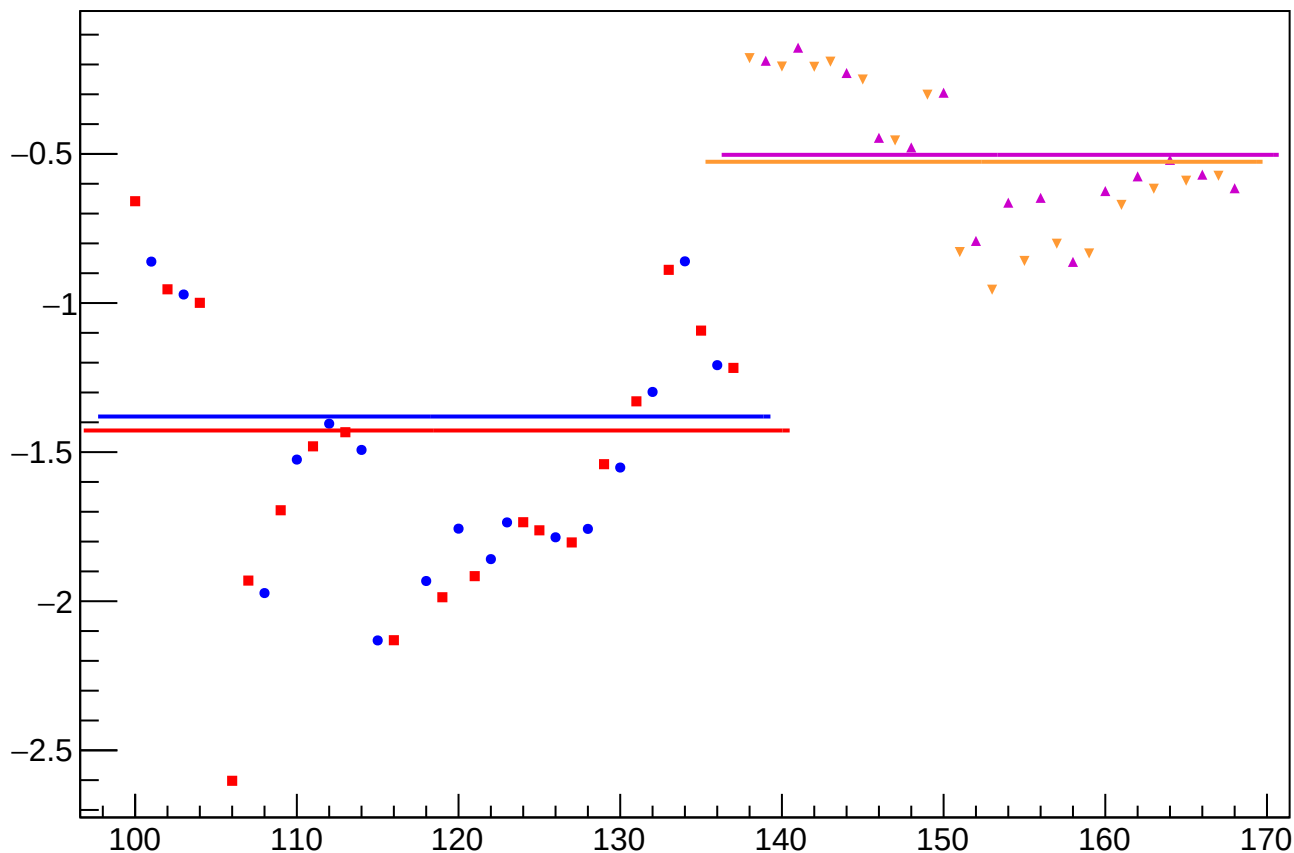
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF :1717991.9/31

Out: 0.007+/-0.000 χ^2/NDF :1373843.6/34

All: 0.007+/-0.000 χ^2/NDF : 3092392.5/66

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.526+/-0.000 χ^2/NDF : 44582356936.9/15

Right Out: -1.427+/-0.000 χ^2/NDF : 29616178528.0/18

Left In: -0.503+/-0.000 χ^2/NDF : 28825604018.6/14

Left: -0.515+/-0.000 χ^2/NDF : 73575068756.6/30

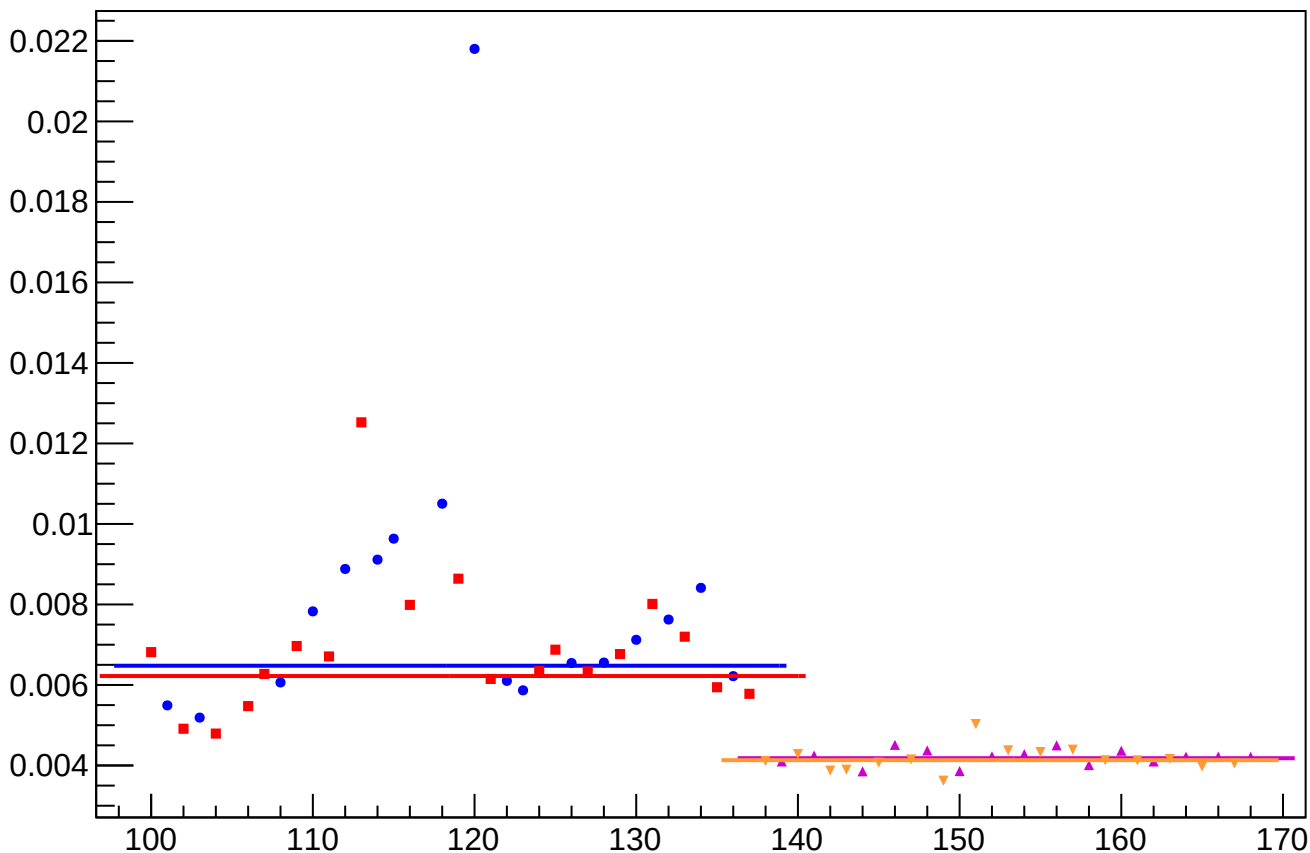
Right: -1.406+/-0.000 χ^2/NDF : 49770978716.8/35

In: -0.657+/-0.000 χ^2/NDF : 131224070369.0/31

Out: -0.702+/-0.000 χ^2/NDF : 173486918703.2/34

All: -0.680+/-0.000 χ^2/NDF : 305471424976.7

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 : 89945.9/15

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 46984.7/14

Left: 0.004+/-0.000 χ^2/NDF : 138421.8/30

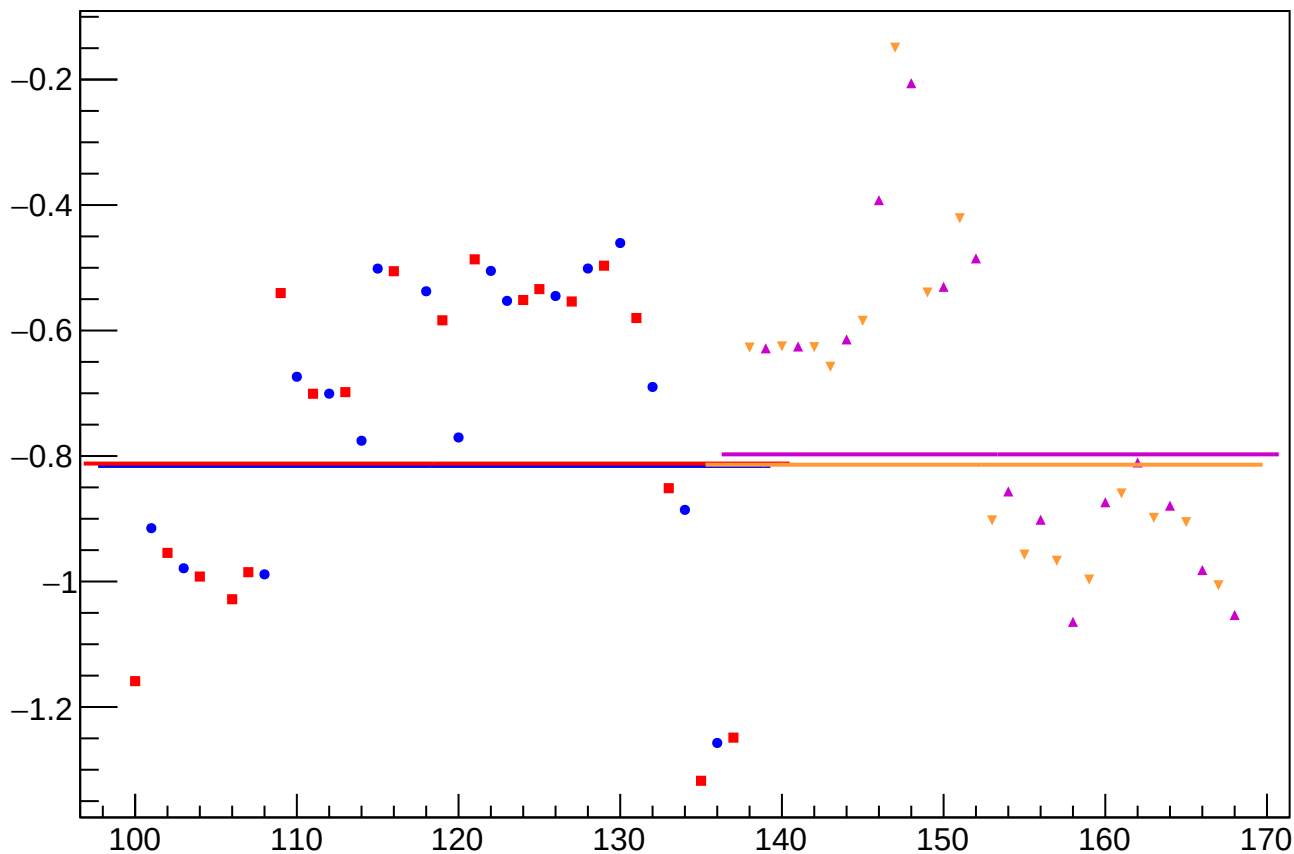
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.005+/-0.000 χ^2/NDF : 1748657.8/31

Out: 0.005+/-0.000 χ^2/NDF : 1582017.7/34

All: 0.005+/-0.000 χ^2/NDF : 3332220.4/66

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.814+/-0.000 χ^2/NDF : 29352983112.3/15

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.797+/-0.000 χ^2/NDF : 34251448985.0/14

Left: -0.806+/-0.000 χ^2/NDF : 63693476067.3/30

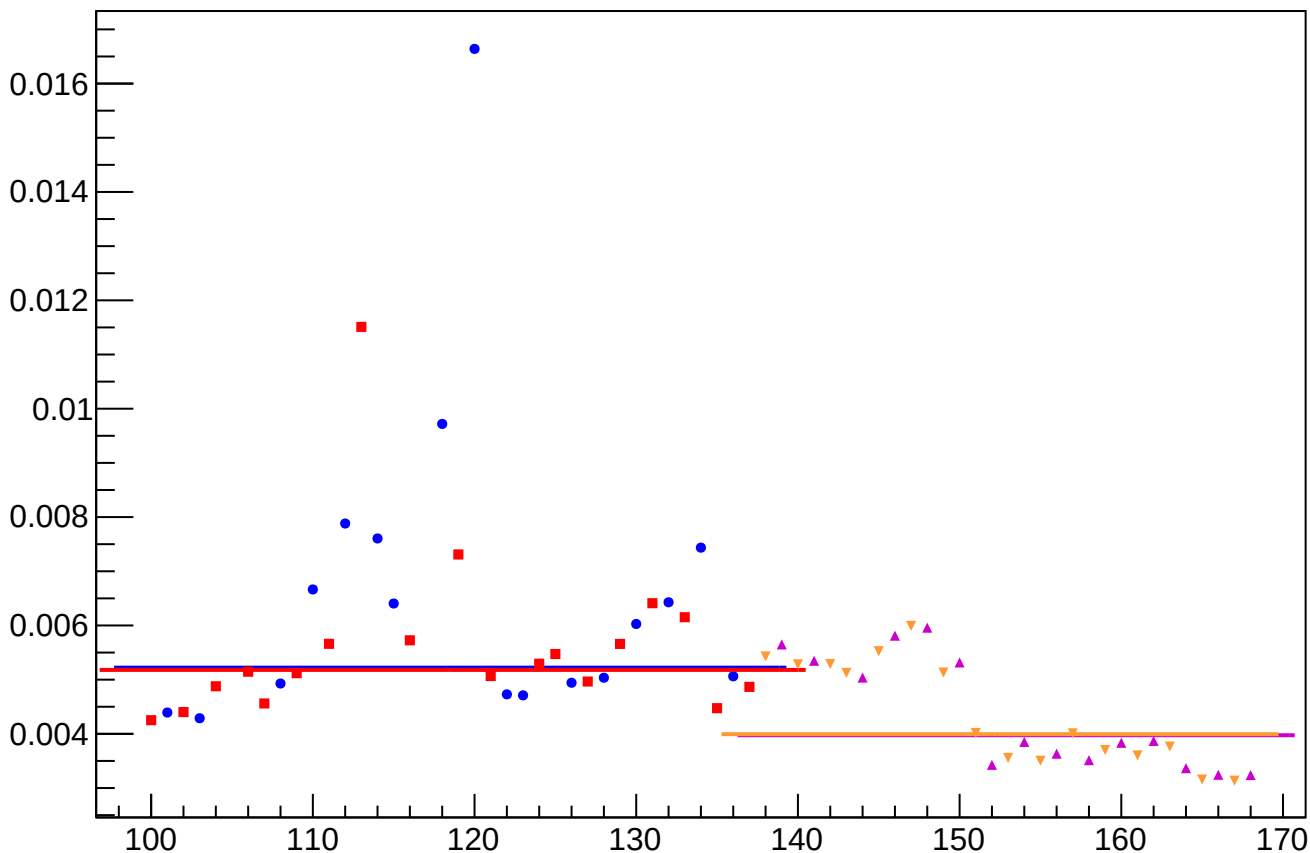
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.802+/-0.000 χ^2/NDF : 48475662454.4/31

Out: -0.813+/-0.000 χ^2/NDF : 46169381124.7/34

All: -0.808+/-0.000 χ^2/NDF : 94705165686.6/50

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 : 897193.6/15

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF : 953596.4/14

Left: 0.004+/-0.000 χ^2/NDF : 1851045.7/30

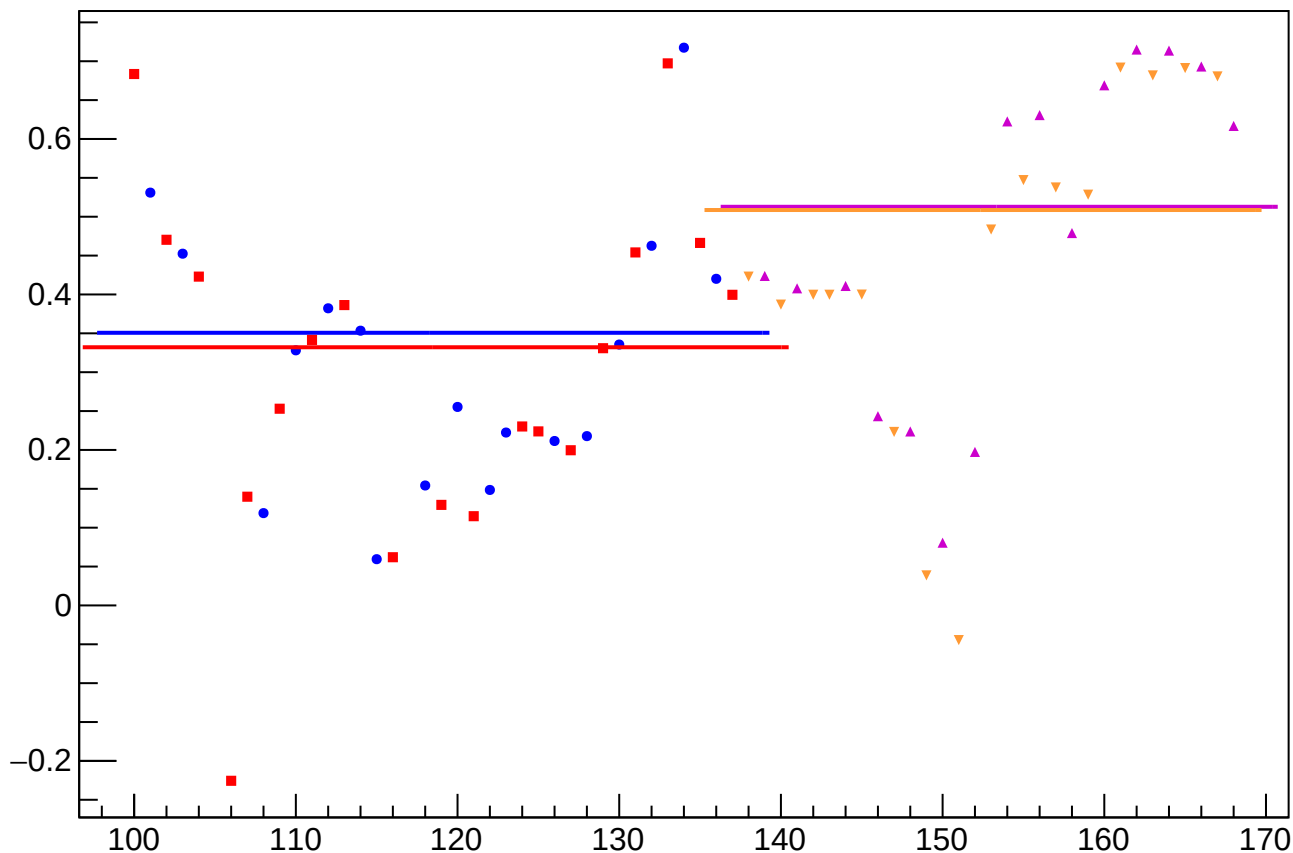
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF : 2088196.1/31

Out: 0.004+/-0.000 χ^2/NDF : 1725801.0/34

All: 0.004+/-0.000 χ^2/NDF : 3815012.2/66

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.509+/-0.000 χ^2/NDF : 37364219756.4/15

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.513+/-0.000 χ^2/NDF : 34280090139.7/14

Left: 0.511+/-0.000 χ^2/NDF : 71652648194.1/30

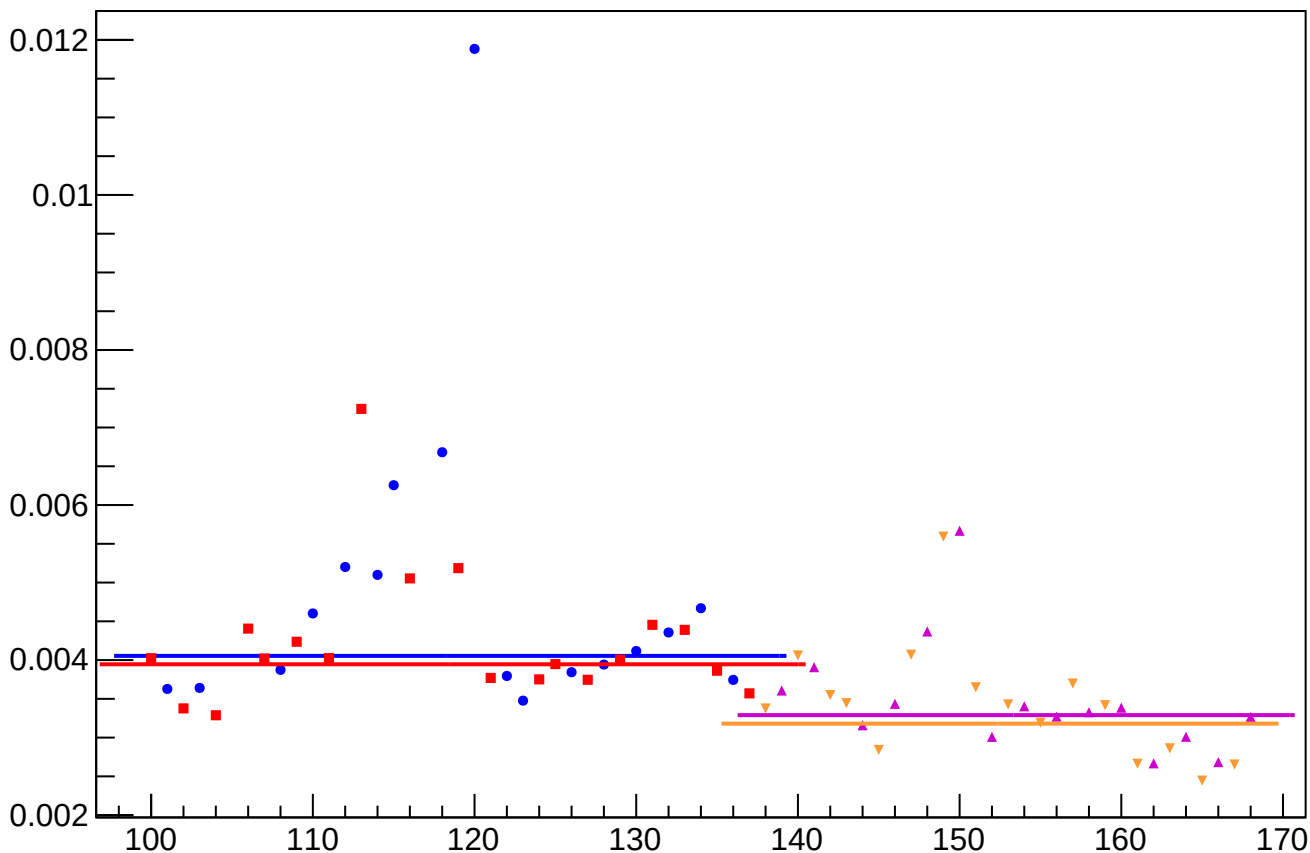
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.469+/-0.000 χ^2/NDF : 48339670892.3/31

Out: 0.459+/-0.000 χ^2/NDF : 57938633282.3/34

All: 0.464+/-0.000 χ^2/NDF : 106351389720.3

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 455318.3/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 708139.9/15

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 260968.0/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 556873.4/14

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 1276700.0/30

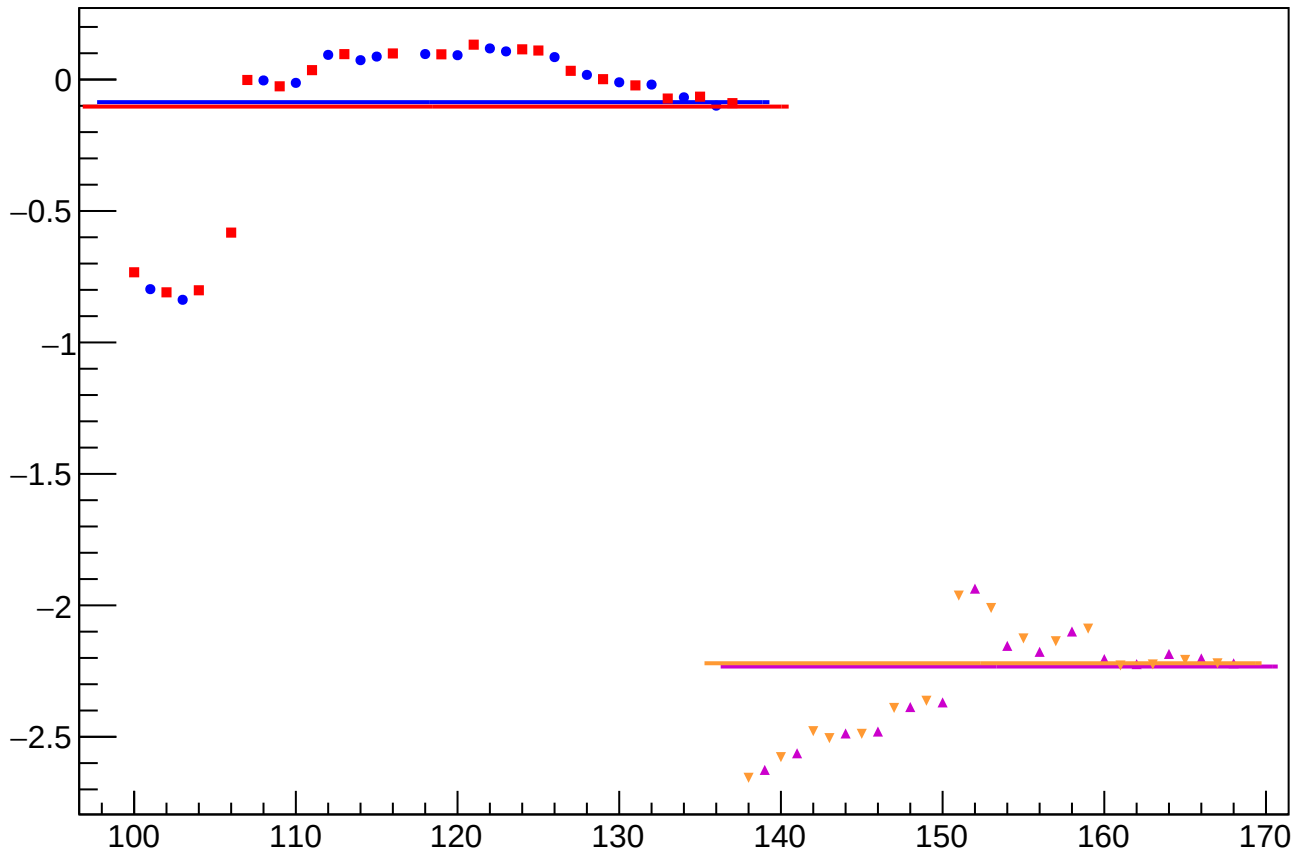
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 720633.0/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1307788.9/31

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 1299325.0/34

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2620242.4/66

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 4989387592.7/16$

Left Out: -2.220 ± 0.000 $\chi^2/\text{NDF}: 3414716430.6/15$

Right Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 5553039516.7/18$

Left In: -2.233 ± 0.000 $\chi^2/\text{NDF}: 2690609579.5/14$

Left: -2.226 ± 0.000 $\chi^2/\text{NDF}: 6112666847.3/30$

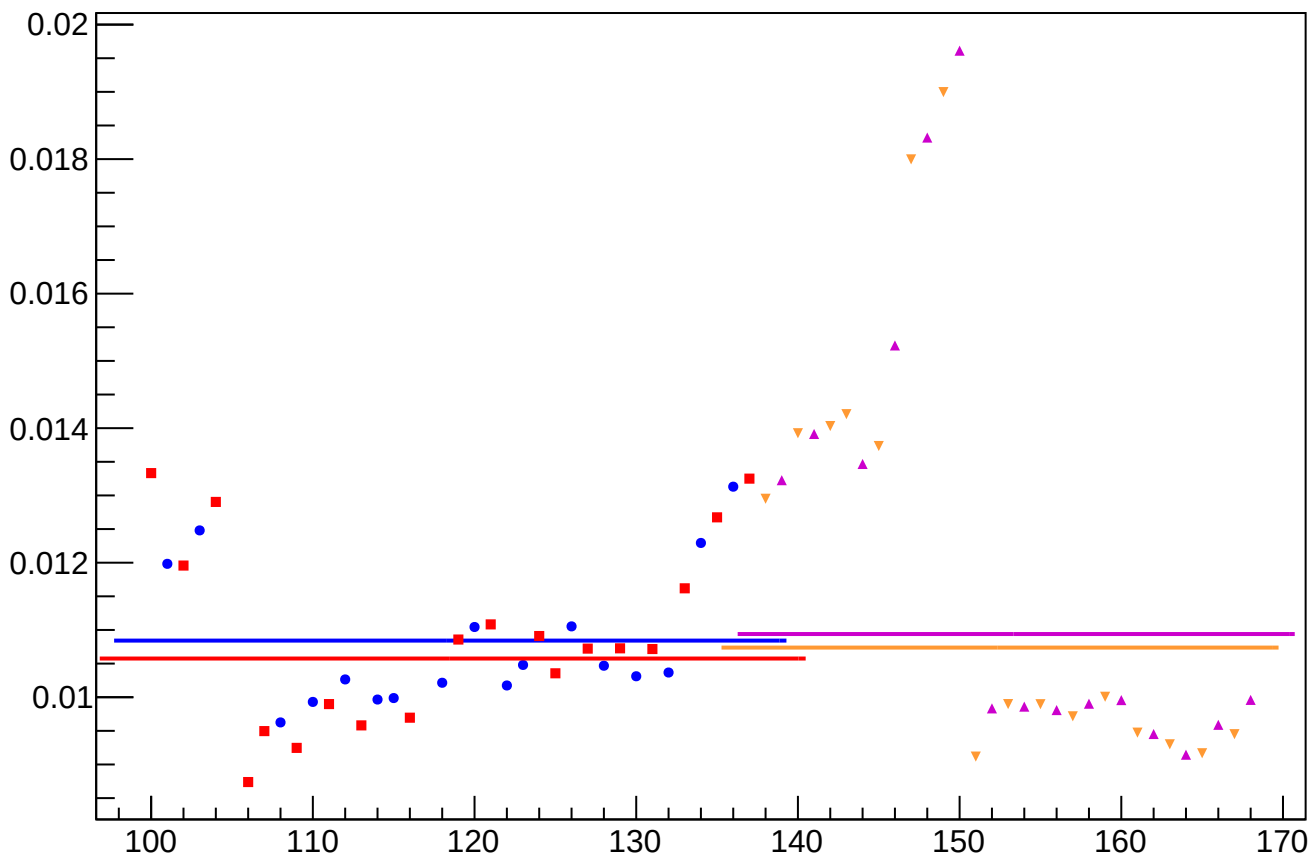
Right: -0.095 ± 0.000 $\chi^2/\text{NDF}: 10550892801.3/35$

In: -1.418 ± 0.000 $\chi^2/\text{NDF}: 169165365475.7/31$

Out: -1.391 ± 0.000 $\chi^2/\text{NDF}: 180043453773.4/34$

All: -1.404 ± 0.000 $\chi^2/\text{NDF}: 349264275846.9$

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 :1103434.8/15

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF :1118705.4/14

Left: 0.011+/-0.000 χ^2/NDF : 2225992.3/30

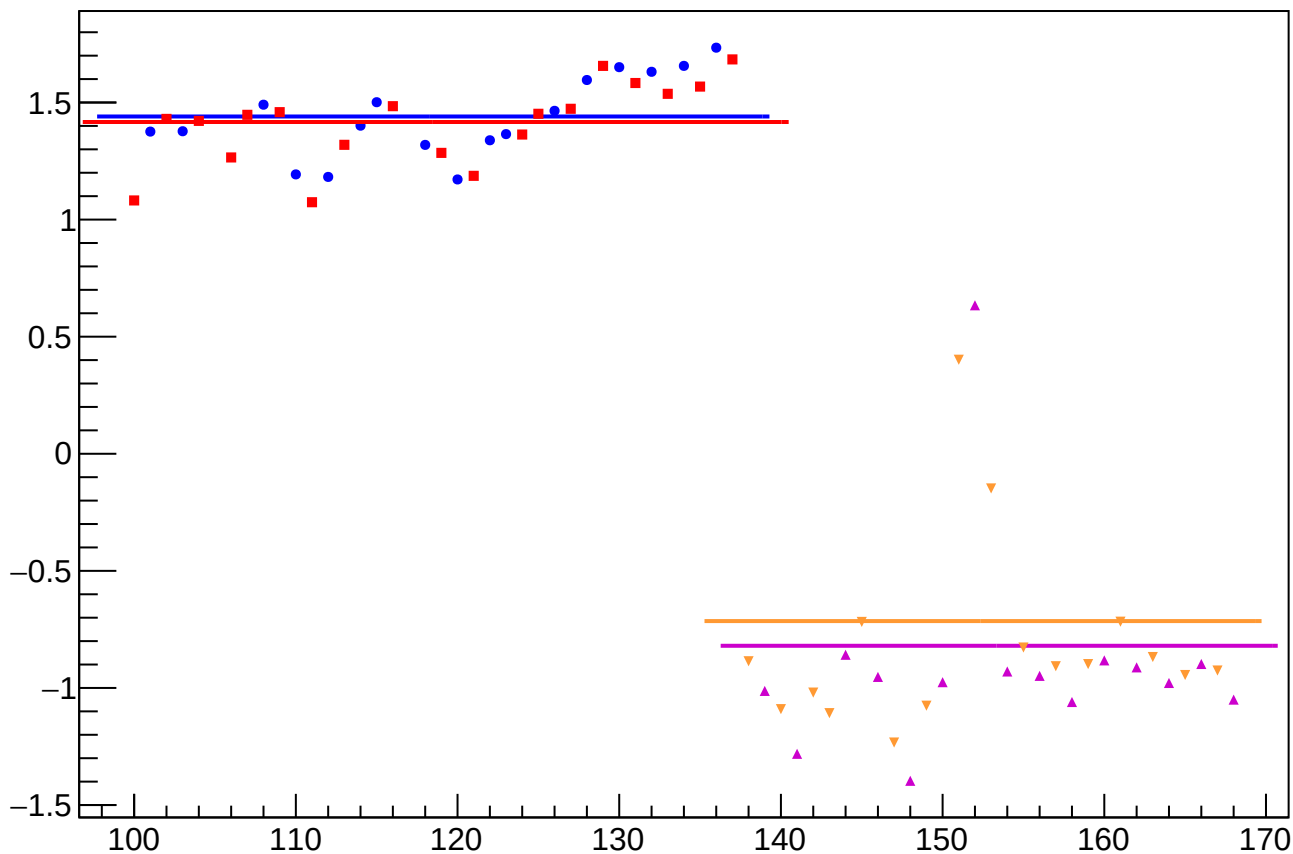
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1243633.6/31

Out: 0.011+/-0.000 χ^2/NDF :1284423.7/34

All: 0.011+/-0.000 χ^2/NDF : 2536091.8/66

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.714 $\pm$ 0.000 χ^2 /NDF:30950599941.0/15

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.820 $\pm$ 0.000 χ^2 /NDF:40320486868.1/14

Left: -0.767 $\pm$ 0.000 χ^2 /NDF: 72150227377.4/30

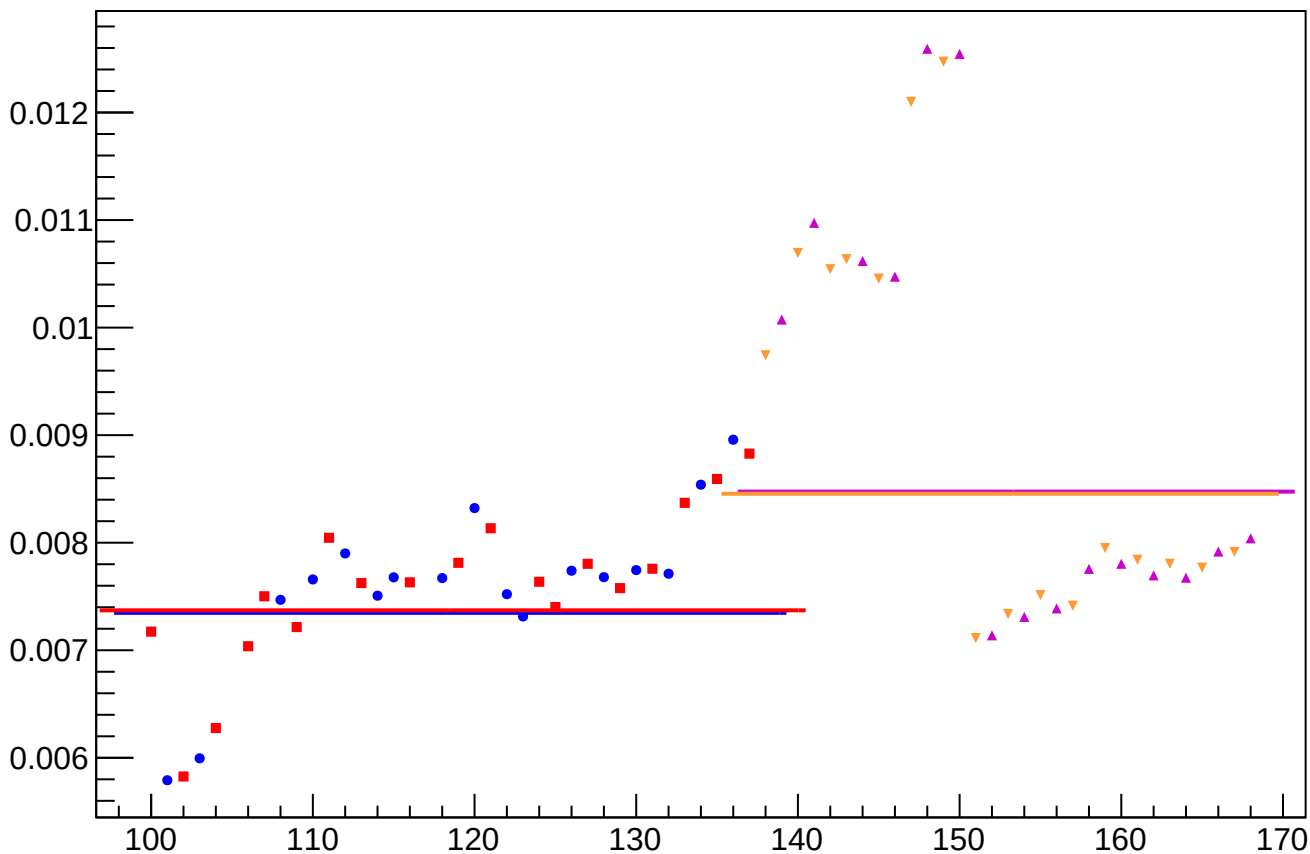
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.171 $\pm$ 0.000 χ^2 /NDF:393909768957.3/31

Out: 0.238 $\pm$ 0.000 χ^2 /NDF:358065074990.7/34

All: 0.205 $\pm$ 0.000 χ^2 /NDF: 752611099983.1

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 : 738915.4/15

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 801844.5/14

Left: 0.008+/-0.000 χ^2/NDF : 1540823.3/30

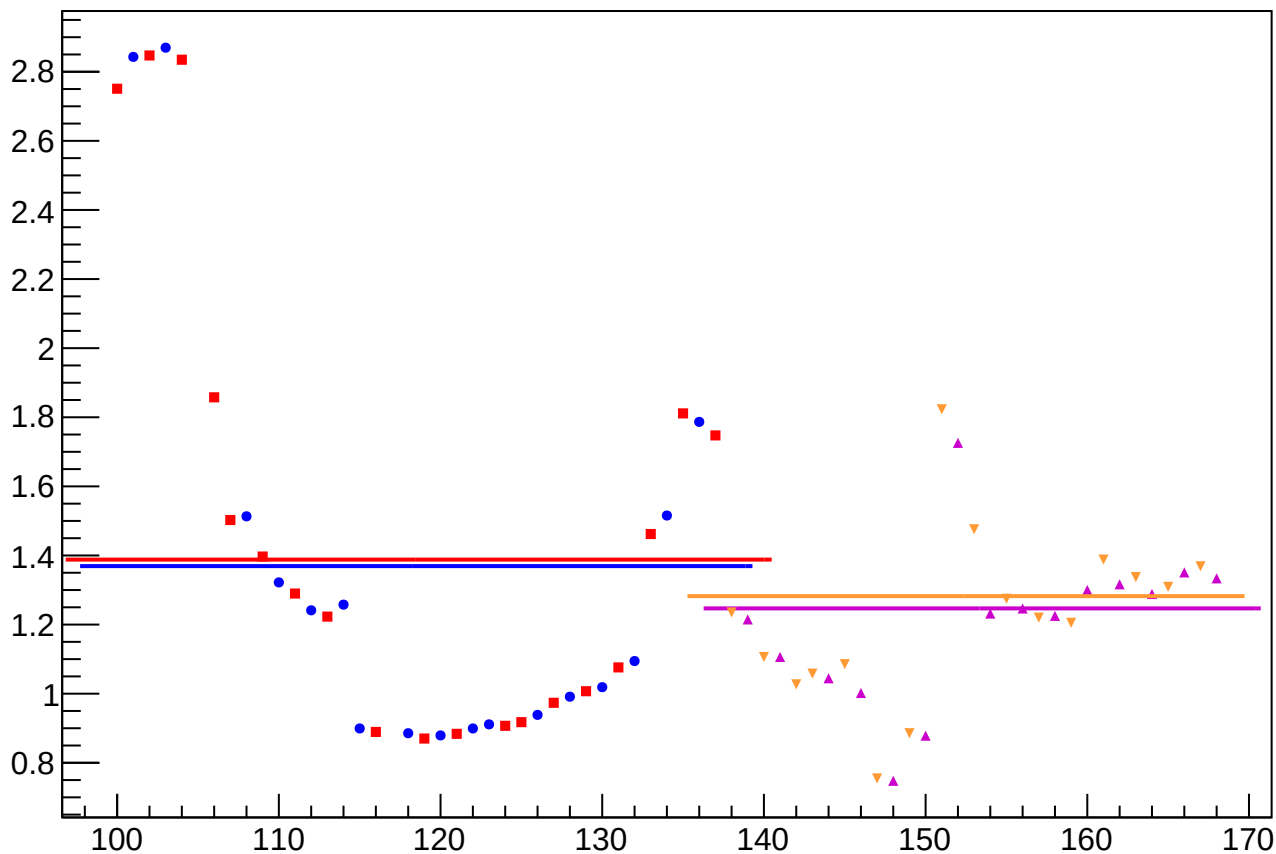
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1204175.0/31

Out: 0.008+/-0.000 χ^2/NDF : 1079399.2/34

All: 0.008+/-0.000 χ^2/NDF : 2283603.6/66

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.282+/-0.000 χ^2/NDF : 9115161597.1/15

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.247+/-0.000 χ^2/NDF : 7233513892.8/14

Left: 1.265+/-0.000 χ^2/NDF : 16453116956.3/30

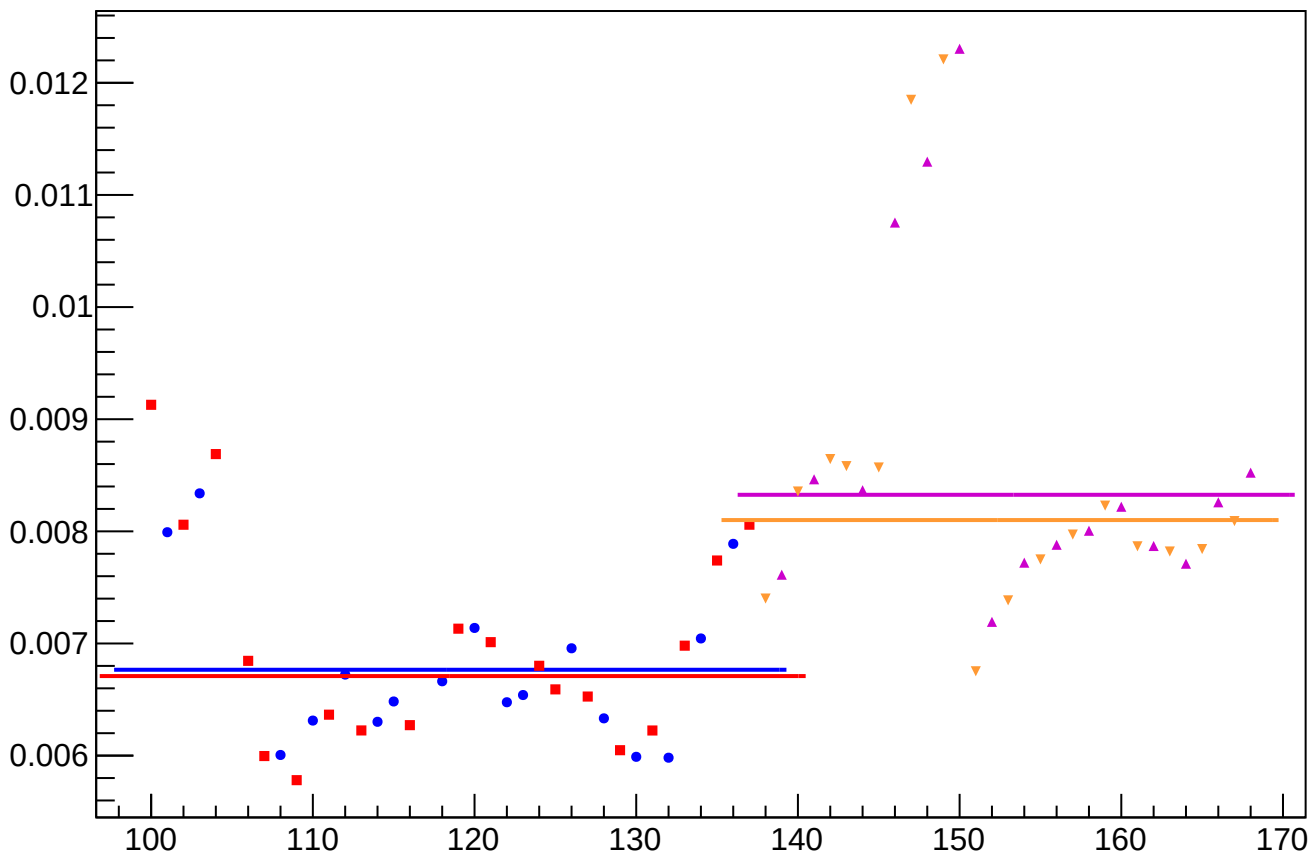
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.305+/-0.000 χ^2/NDF : 62578880460.6/31

Out: 1.333+/-0.000 χ^2/NDF : 59927639390.9/34

All: 1.319+/-0.000 χ^2/NDF : 122629178139.1

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 : 411128.8/15

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 428897.2/14

Left: 0.008+/-0.000 χ^2/NDF : 848460.6/30

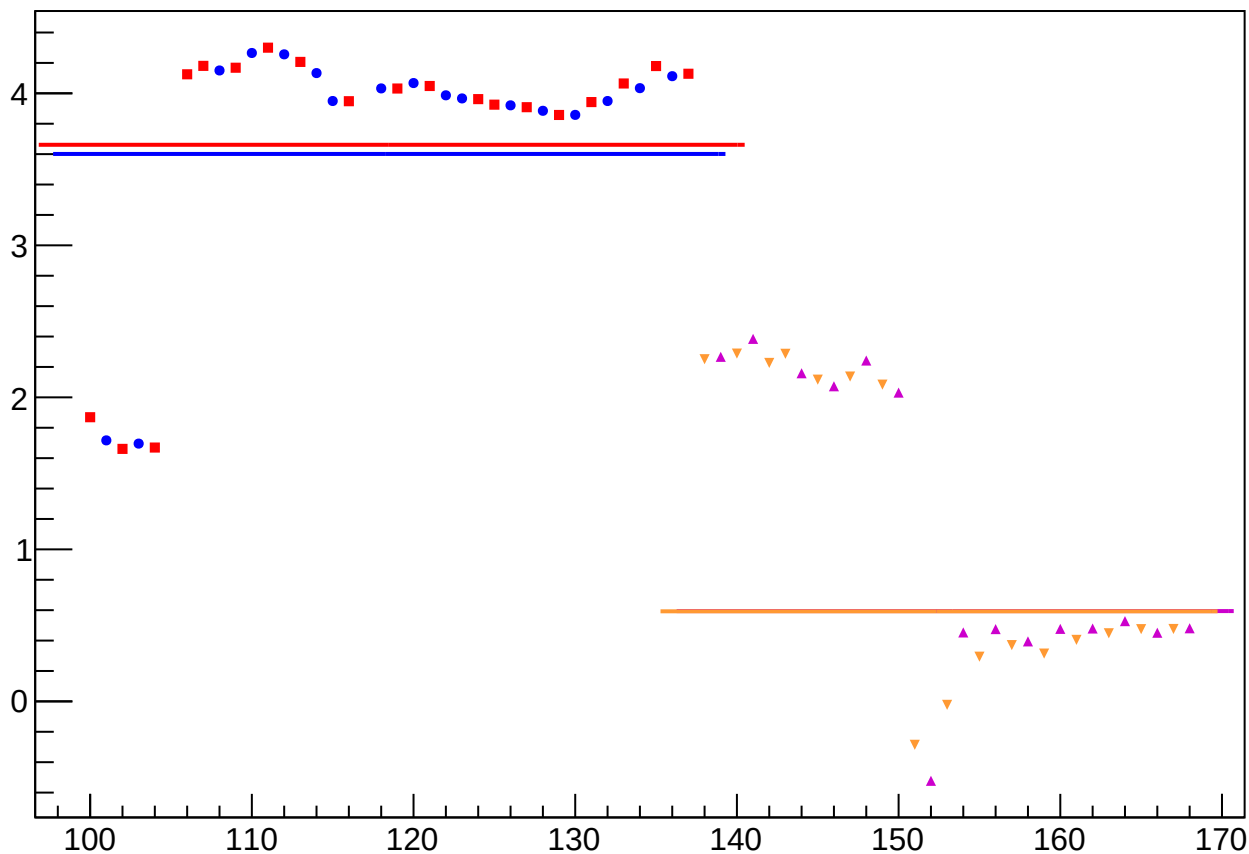
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 959254.2/31

Out: 0.007+/-0.000 χ^2/NDF : 914791.0/34

All: 0.008+/-0.000 χ^2/NDF : 1881042.2/66

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.592+/-0.000 χ^2/NDF : 256975837621.7/15

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.594+/-0.000 χ^2/NDF : 253503406588.4/14

Left: 0.593+/-0.000 χ^2/NDF : 510479791806.2/30

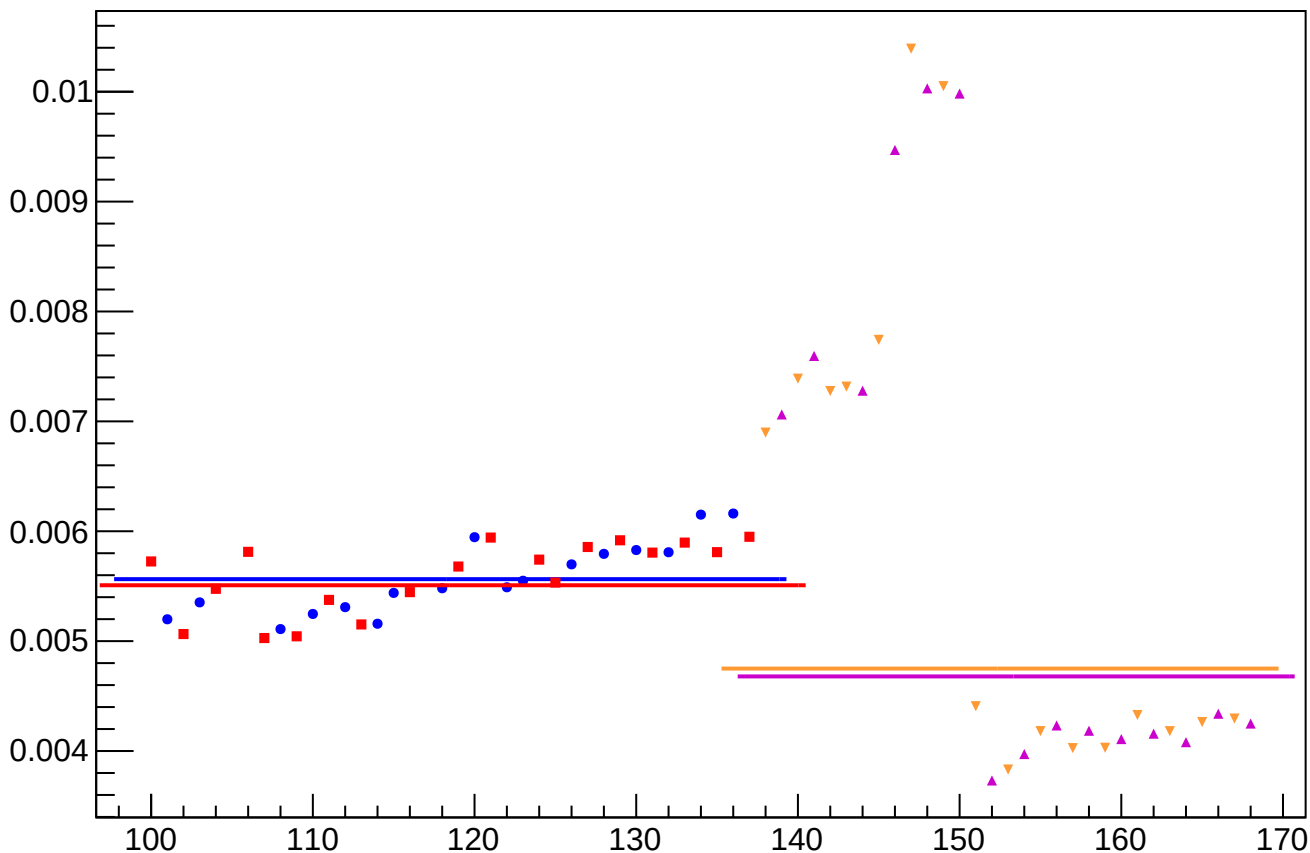
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.548+/-0.000 χ^2/NDF : 1772447018760.8/31

Out: 1.616+/-0.000 χ^2/NDF : 1888402671475.0/34

All: 1.582+/-0.000 χ^2/NDF : 3662439735857.

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 :1915377.5/15

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2120479.6/14

Left: 0.005+/-0.000 χ^2/NDF : 4038212.2/30

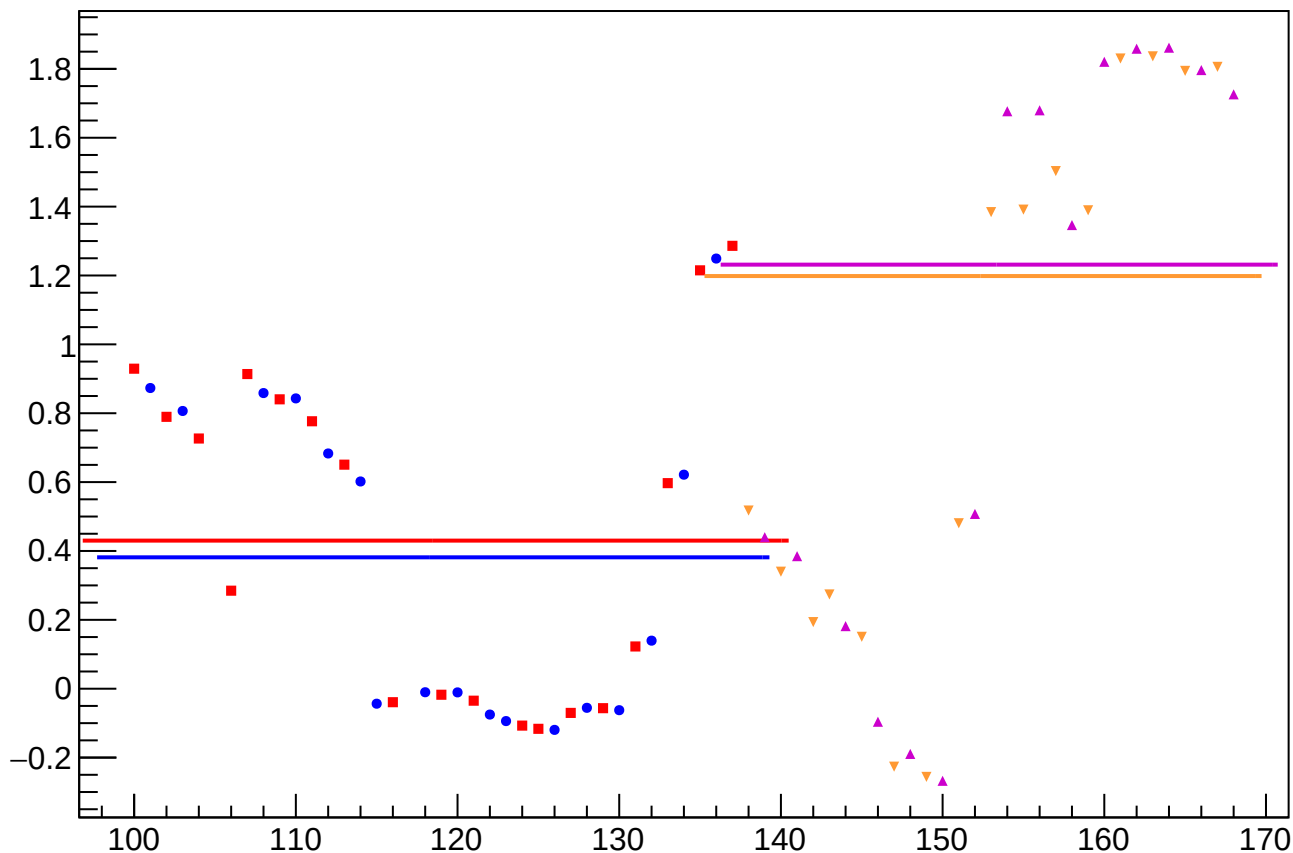
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2399133.3/31

Out: 0.005+/-0.000 χ^2/NDF :2143678.5/34

All: 0.005+/-0.000 χ^2/NDF : 4544108.1/66

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382+/-0.000 χ^2/NDF : 7124759123.1/16

Left Out: 1.198+/-0.000 χ^2/NDF : 37969663963.4/15

Right Out: 0.430+/-0.000 χ^2/NDF : 6676199135.9/18

Left In: 1.231+/-0.000 χ^2/NDF : 43841044843.7/14

Left: 1.215+/-0.000 χ^2/NDF : 81856115008.8/30

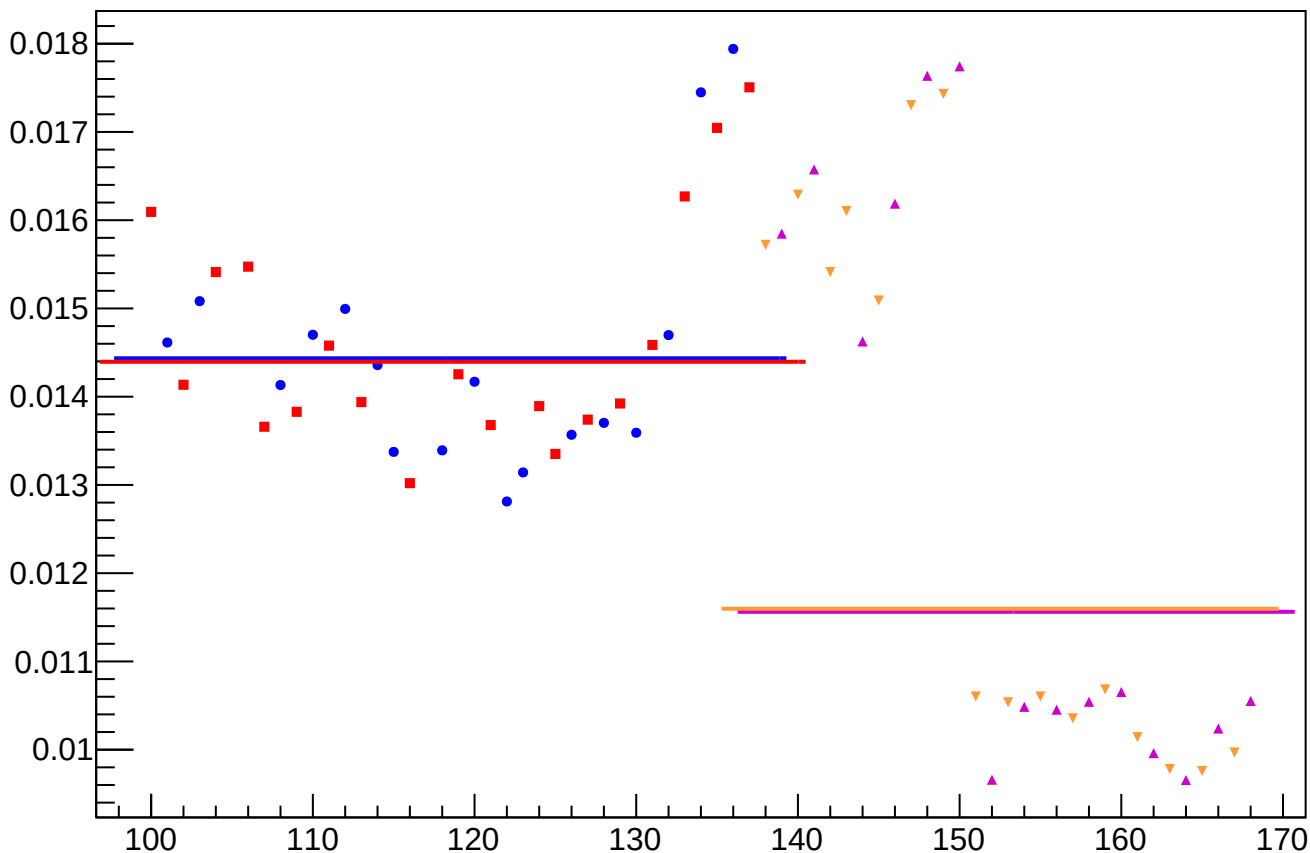
Right: 0.406+/-0.000 χ^2/NDF : 13839390791.2/35

In: 0.995+/-0.000 χ^2/NDF : 67537529693.3/31

Out: 0.978+/-0.000 χ^2/NDF : 58739012364.4/34

All: 0.986+/-0.000 χ^2/NDF : 126293952407.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.012+/-0.000 χ^2/NDF :1053668.8/15

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.012+/-0.000 χ^2/NDF :1095294.9/14

Left: 0.012+/-0.000 χ^2/NDF : 2149063.4/30

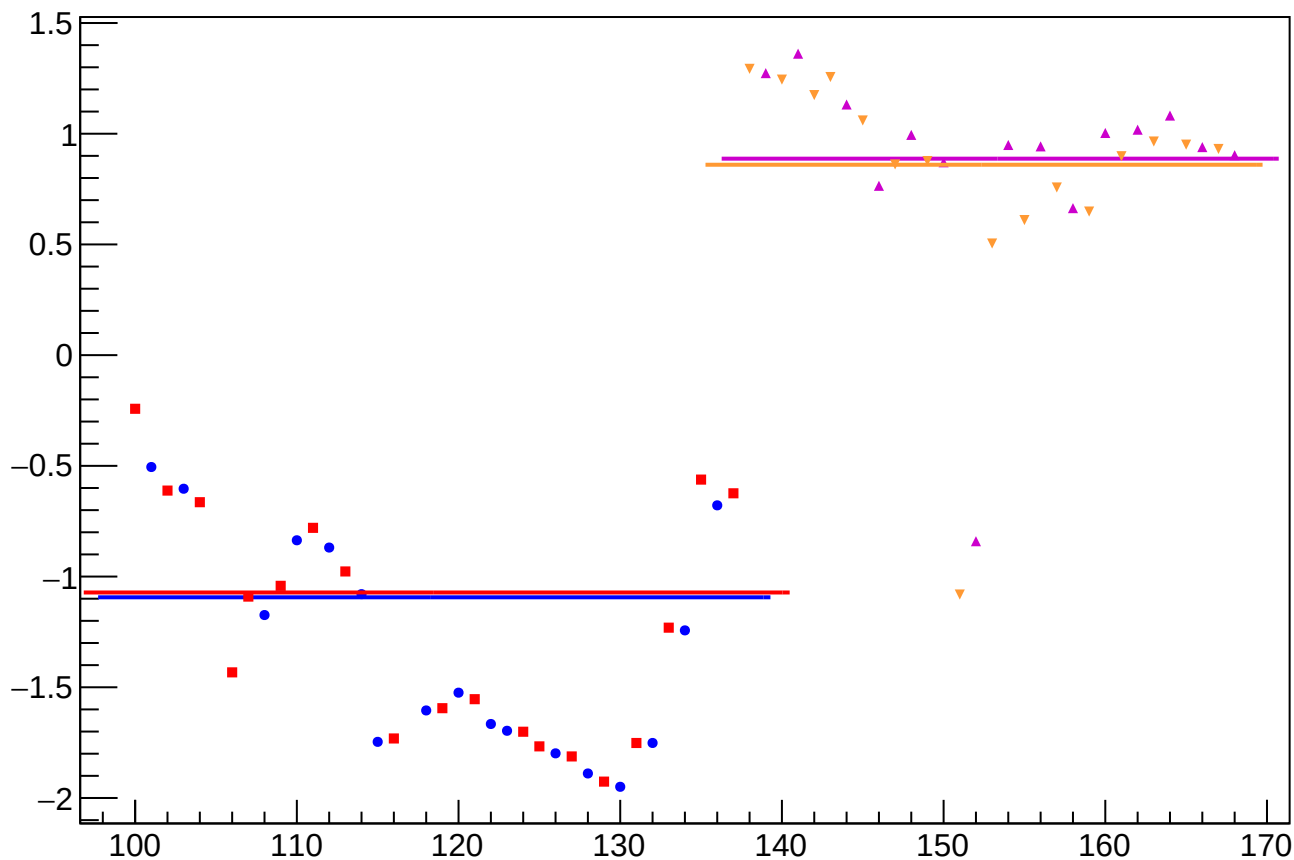
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1584062.2/31

Out: 0.012+/-0.000 χ^2/NDF :1502143.9/34

All: 0.012+/-0.000 χ^2/NDF : 3086386.2/66

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.860 ± 0.000 χ^2/NDF : 124766622851.2/15

Right Out: -1.072 ± 0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.887 ± 0.000 χ^2/NDF : 145722006356.5/14

Left: 0.874 ± 0.000 χ^2/NDF : 270775599646.4/30

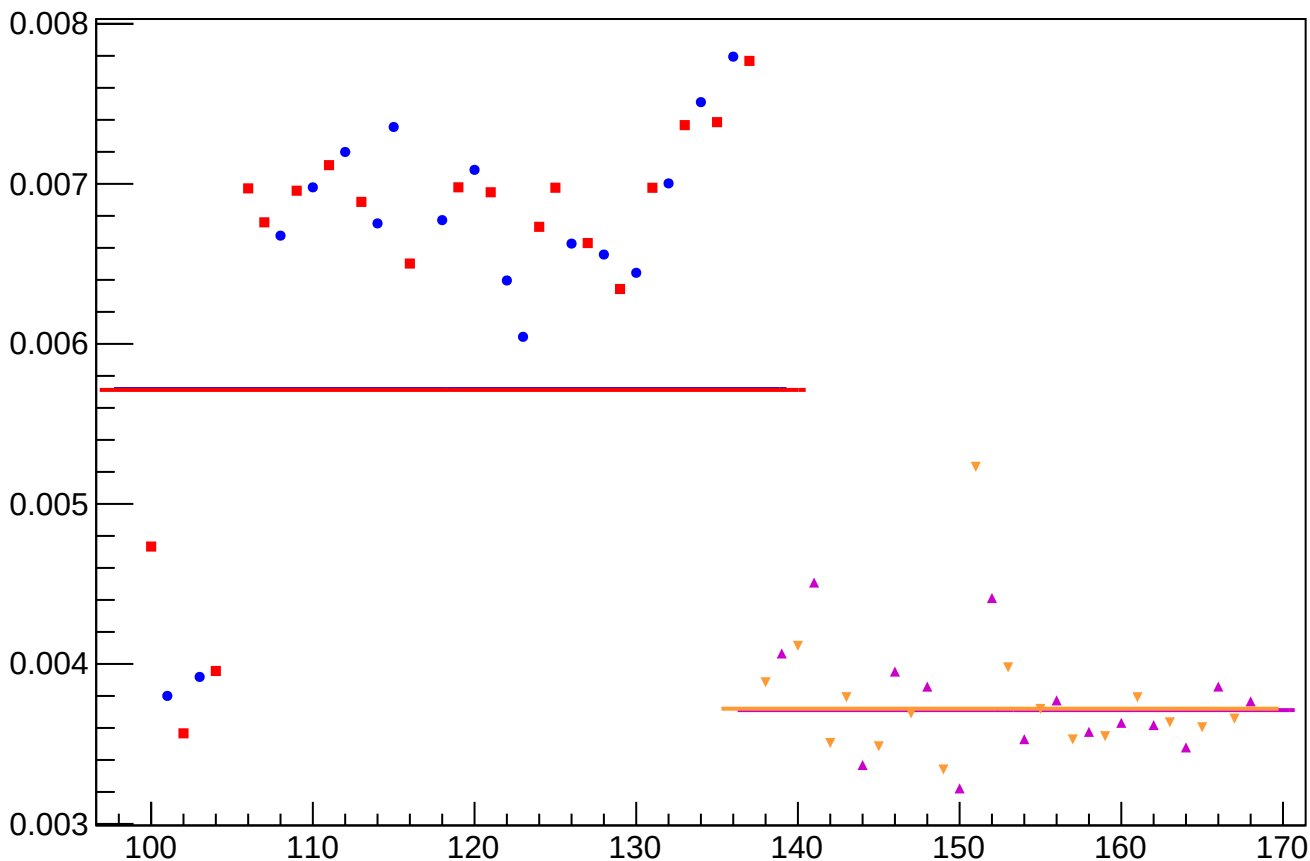
Right: -1.083 ± 0.000 χ^2/NDF : 102900070258.1/35

In: 0.505 ± 0.000 χ^2/NDF : 776960358496.6/31

Out: 0.478 ± 0.000 χ^2/NDF : 737219665532.7/34

All: 0.492 ± 0.000 χ^2/NDF : 1514517439315.

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 :161286.6/15

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :170763.7/14

Left: 0.004+/-0.000 χ^2/NDF : 332111.4/30

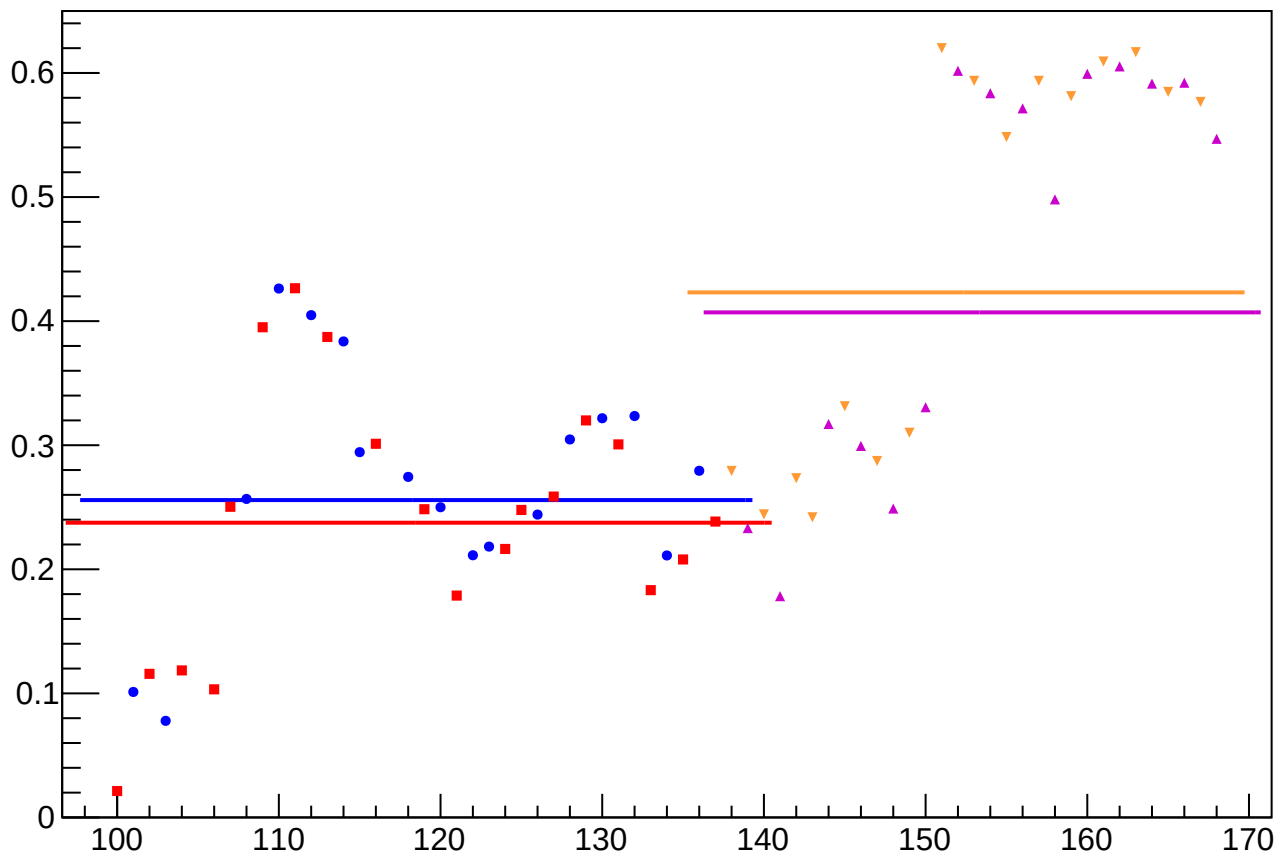
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2188493.3/31

Out: 0.004+/-0.000 χ^2/NDF :2288122.3/34

All: 0.004+/-0.000 χ^2/NDF : 4476837.0/66

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256 $\pm$ 0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.423 $\pm$ 0.000 χ^2/NDF : 79863358294.0/15

Right Out: 0.238 $\pm$ 0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.407 $\pm$ 0.000 χ^2/NDF : 75779006979.1/14

Left: 0.415 $\pm$ 0.000 χ^2/NDF : 156043378330.6/30

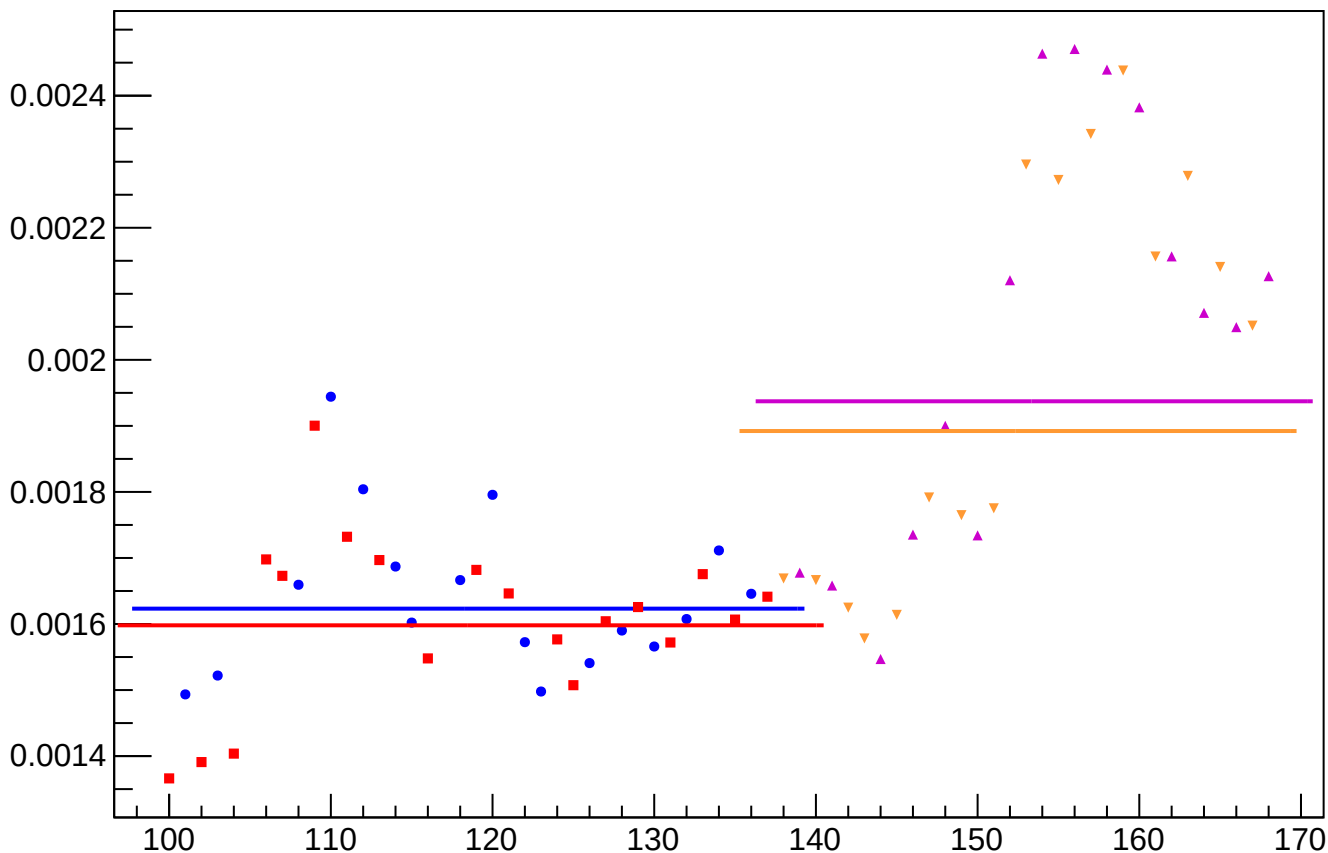
Right: 0.246 $\pm$ 0.000 χ^2/NDF : 47851542841.4/35

In: 0.339 $\pm$ 0.000 χ^2/NDF : 127882322654.3/31

Out: 0.338 $\pm$ 0.000 χ^2/NDF : 156695722143.4/34

All: 0.338 $\pm$ 0.000 χ^2/NDF : 284580316726.4

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 : 518088.9/15

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 553336.9/14

Left: 0.002+/-0.000 χ^2/NDF : 1077693.9/30

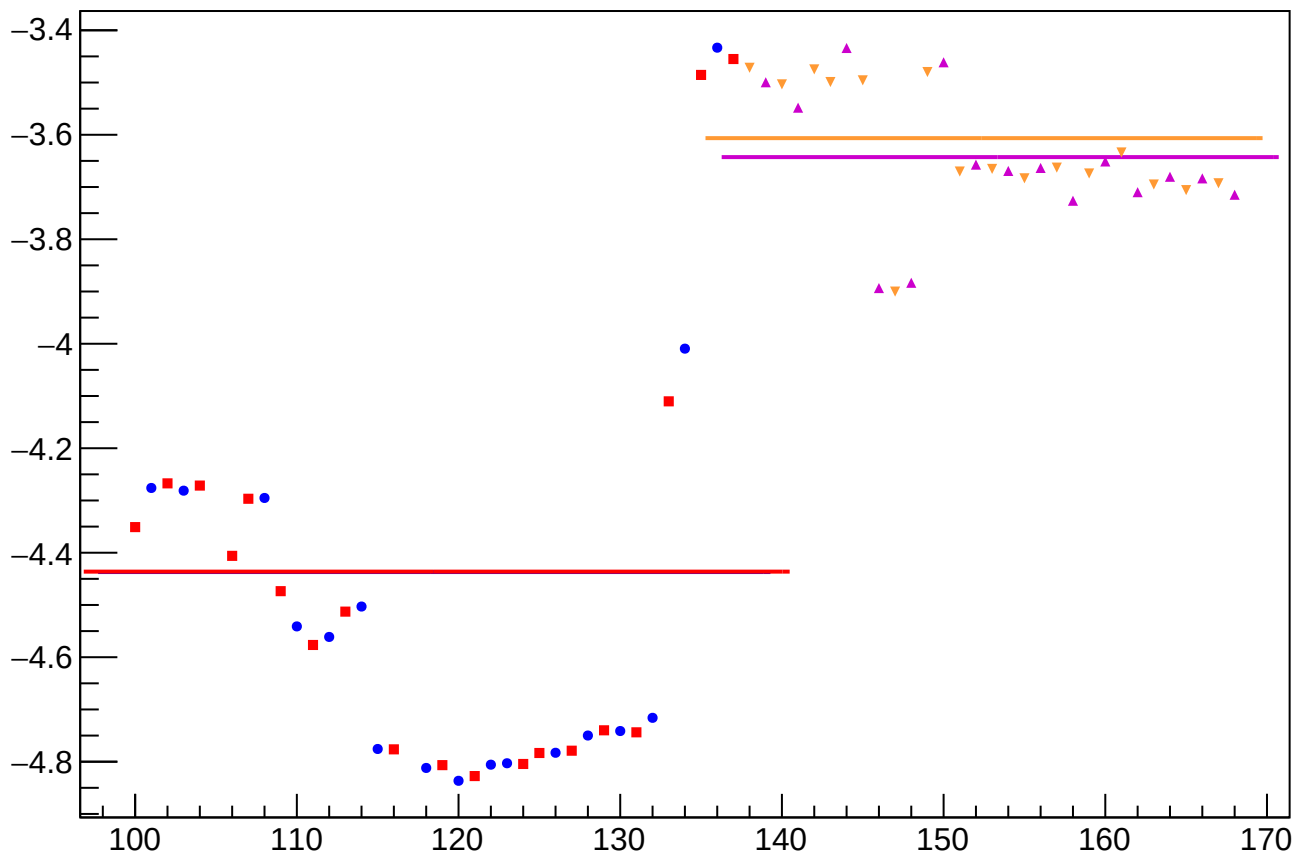
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 870648.5/31

Out: 0.002+/-0.000 χ^2/NDF : 863873.6/34

All: 0.002+/-0.000 χ^2/NDF : 1742935.7/66

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.606 $\pm$ 0.000 χ^2/NDF : 33927412860.7/15

Right Out: -4.436 $\pm$ 0.000 χ^2/NDF : 325183860699.4/18

Left In: -3.643 $\pm$ 0.000 χ^2/NDF : 44093621528.0/14

Left: -3.624 $\pm$ 0.000 χ^2/NDF : 79671967553.5/30

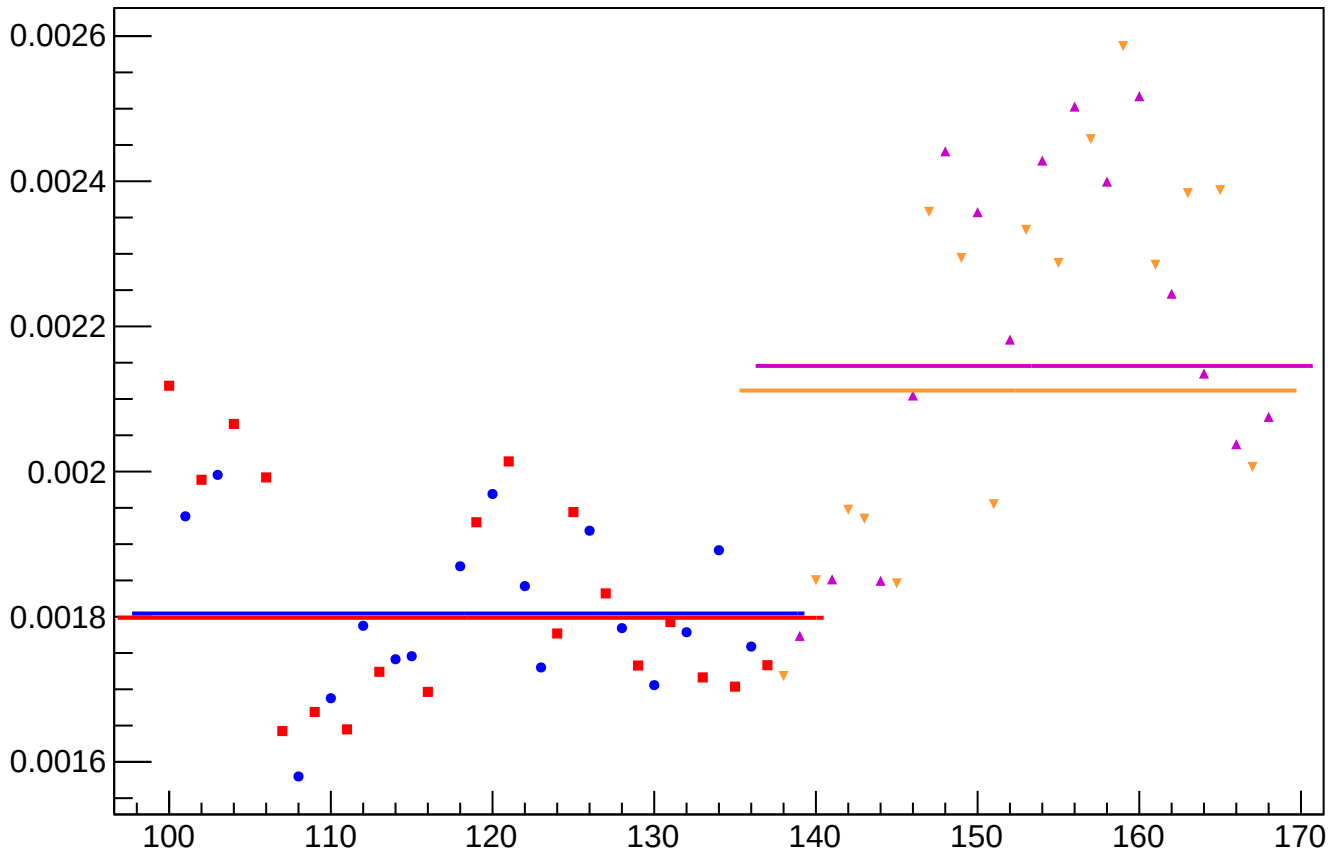
Right: -4.437 $\pm$ 0.000 χ^2/NDF : 717996921060.6/35

In: -3.999 $\pm$ 0.000 χ^2/NDF : 1132091460419.6/31

Out: -3.983 $\pm$ 0.000 χ^2/NDF : 1158004747779.1/34

All: -3.991 $\pm$ 0.000 χ^2/NDF : 2290688090563

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 :342678.4/15

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :295292.2/14

Left: 0.002+/-0.000 χ^2/NDF : 640857.9/30

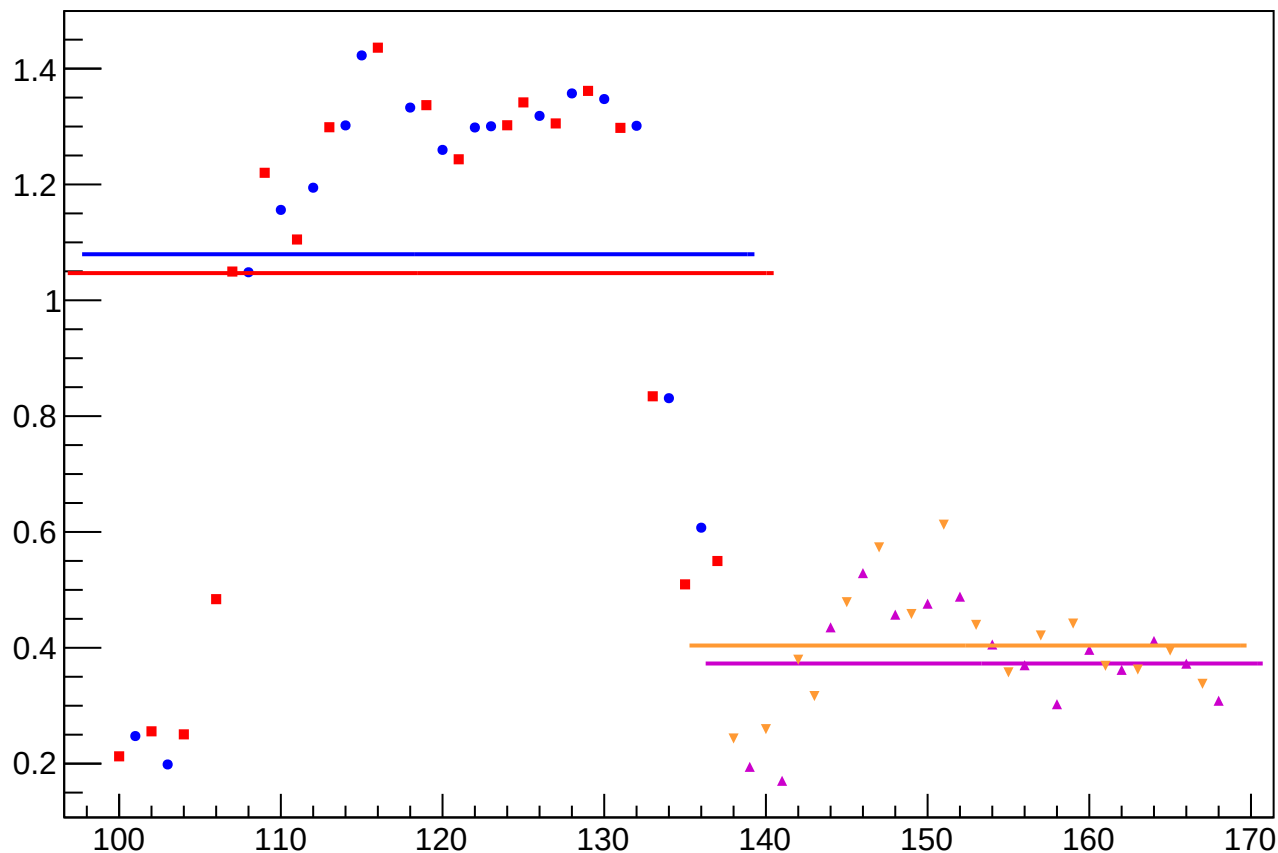
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :600906.0/31

Out: 0.002+/-0.000 χ^2/NDF :651238.6/34

All: 0.002+/-0.000 χ^2/NDF : 1254556.1/66

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080+/-0.000 χ^2/NDF : 17533321220.5/16

Left Out: 0.404+/-0.000 χ^2/NDF : 1262902708.4/15

Right Out: 1.047+/-0.000 χ^2/NDF : 19683192379.0/18

Left In: 0.373+/-0.000 χ^2/NDF : 1087704174.6/14

Left: 0.389+/-0.000 χ^2/NDF : 2411914694.9/30

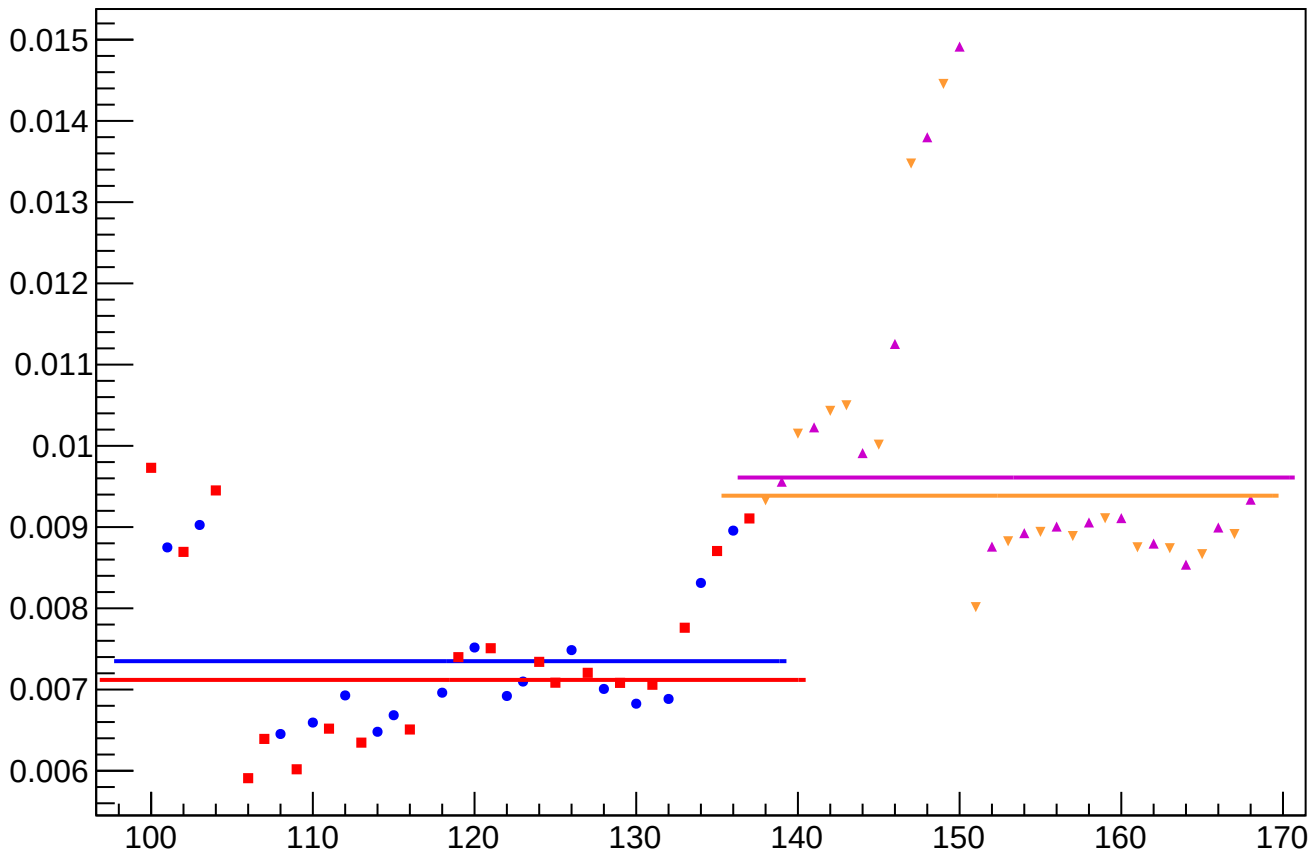
Right: 1.062+/-0.000 χ^2/NDF : 37285218980.1/35

In: 0.725+/-0.000 χ^2/NDF : 49266855693.3/31

Out: 0.733+/-0.000 χ^2/NDF : 48734029852.4/34

All: 0.729+/-0.000 χ^2/NDF : 98009207392.9/66

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 : 470153.1/15

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.010+/-0.000 χ^2/NDF : 488793.0/14

Left: 0.009+/-0.000 χ^2/NDF : 965302.6/30

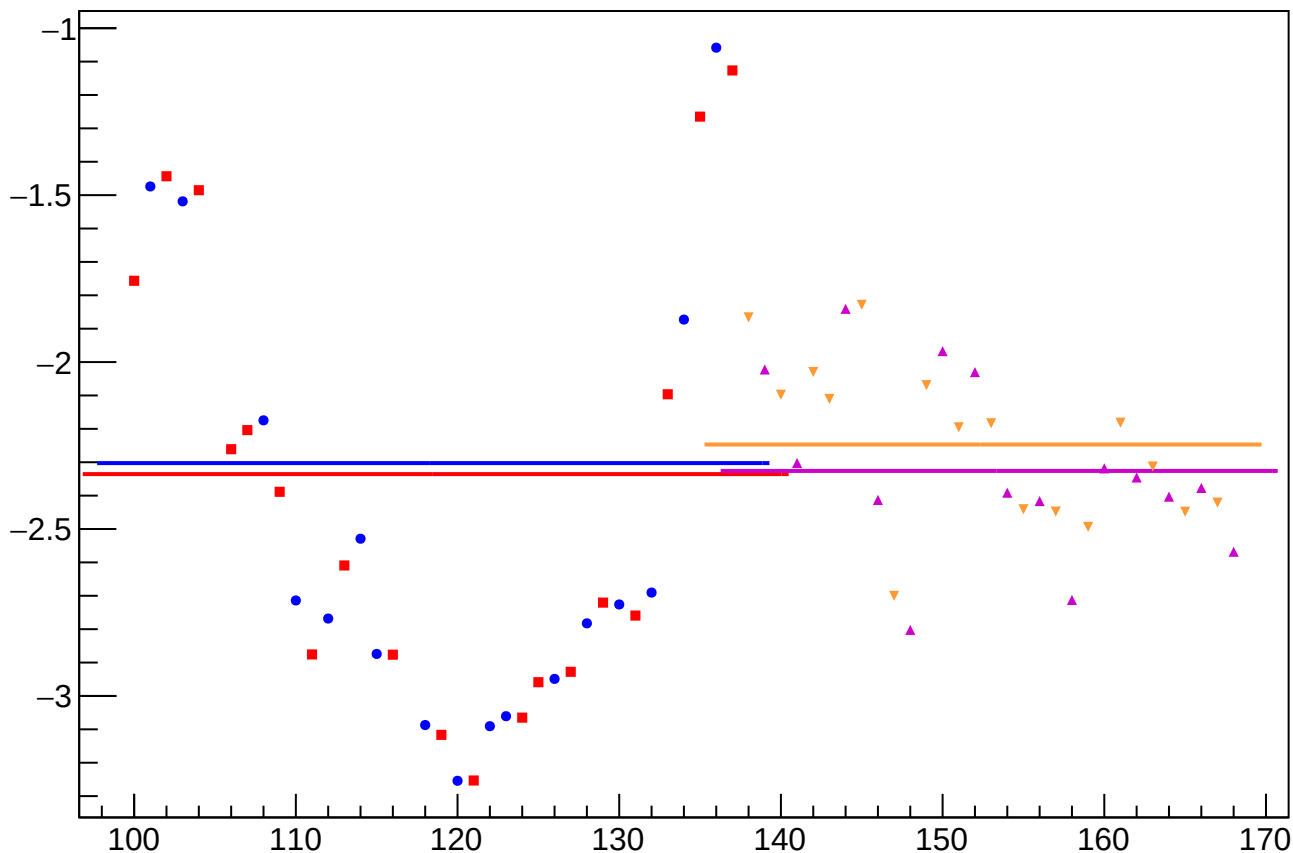
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1296965.7/31

Out: 0.008+/-0.000 χ^2/NDF : 1420559.8/34

All: 0.008+/-0.000 χ^2/NDF : 2734586.9/66

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303 ± 0.000 $\chi^2/\text{NDF}: 73755914805.8/16$

Left Out: -2.247 ± 0.000 $\chi^2/\text{NDF}: 7738029312.7/15$

Right Out: -2.336 ± 0.000 $\chi^2/\text{NDF}: 64499162456.4/18$

Left In: -2.326 ± 0.000 $\chi^2/\text{NDF}: 9296296697.2/14$

Left: -2.286 ± 0.000 $\chi^2/\text{NDF}: 17519958800.3/30$

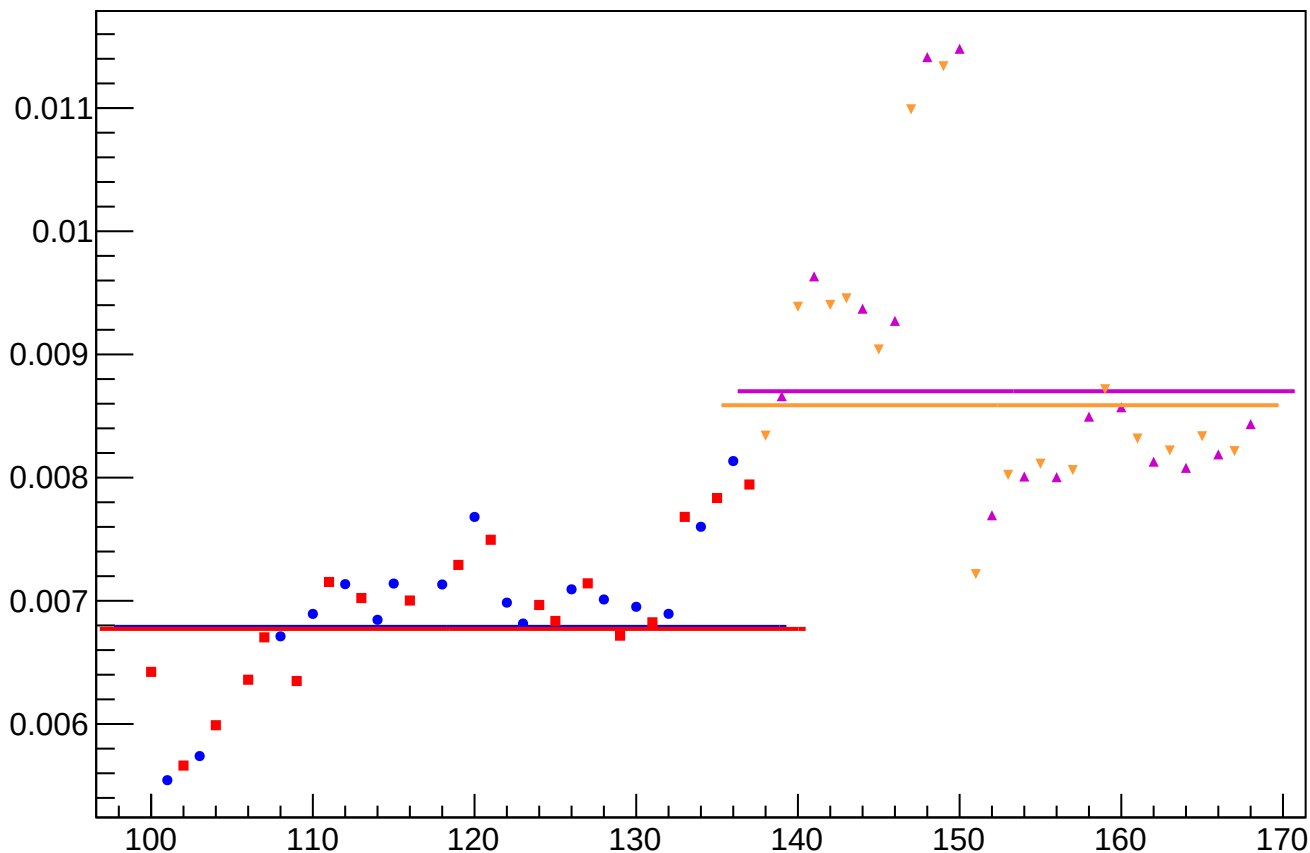
Right: -2.320 ± 0.000 $\chi^2/\text{NDF}: 138336112561.8/35$

In: -2.315 ± 0.000 $\chi^2/\text{NDF}: 83092980257.6/31$

Out: -2.291 ± 0.000 $\chi^2/\text{NDF}: 72850682770.8/34$

All: -2.302 ± 0.000 $\chi^2/\text{NDF}: 156031366756.4$

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 : 289645.3/15

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 297032.0/14

Left: 0.009+/-0.000 χ^2/NDF : 588678.1/30

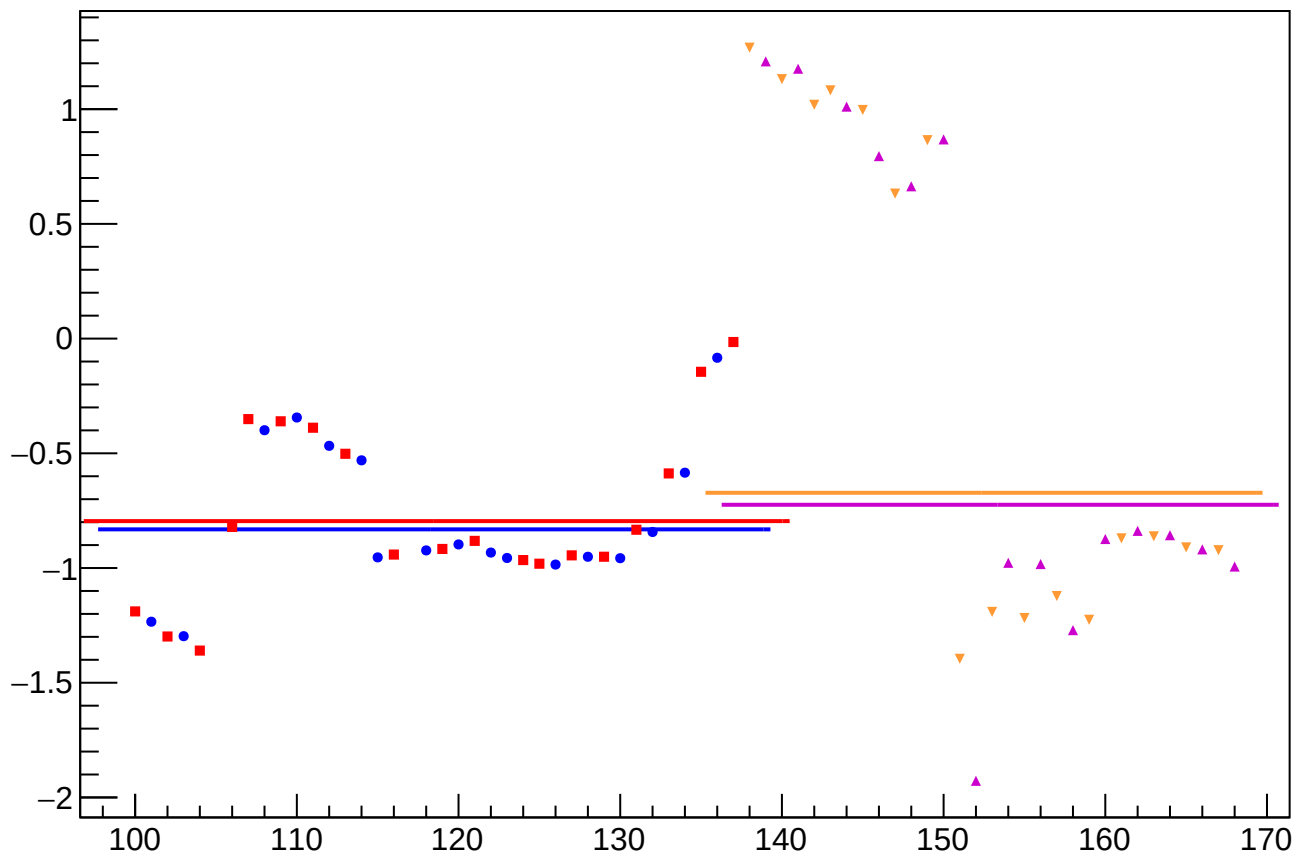
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1003600.5/31

Out: 0.008+/-0.000 χ^2/NDF : 927875.6/34

All: 0.008+/-0.000 χ^2/NDF : 1933290.2/66

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ²/NDF: 6692170860.9/16

Left: -0.698+/-0.000

χ²/NDF: 232143507815.7/30

Left Out: -0.672+/-0.000

χ²/NDF: 112112027614.7/15

Right: -0.813+/-0.000

χ²/NDF: 14551426152.3/35

Right Out: -0.796+/-0.000

χ²/NDF: 7821744046.6/18

In: -0.752+/-0.000

χ²/NDF: 126984082154.3/31

Out: -0.706+/-0.000

χ²/NDF: 120595282869.1/34

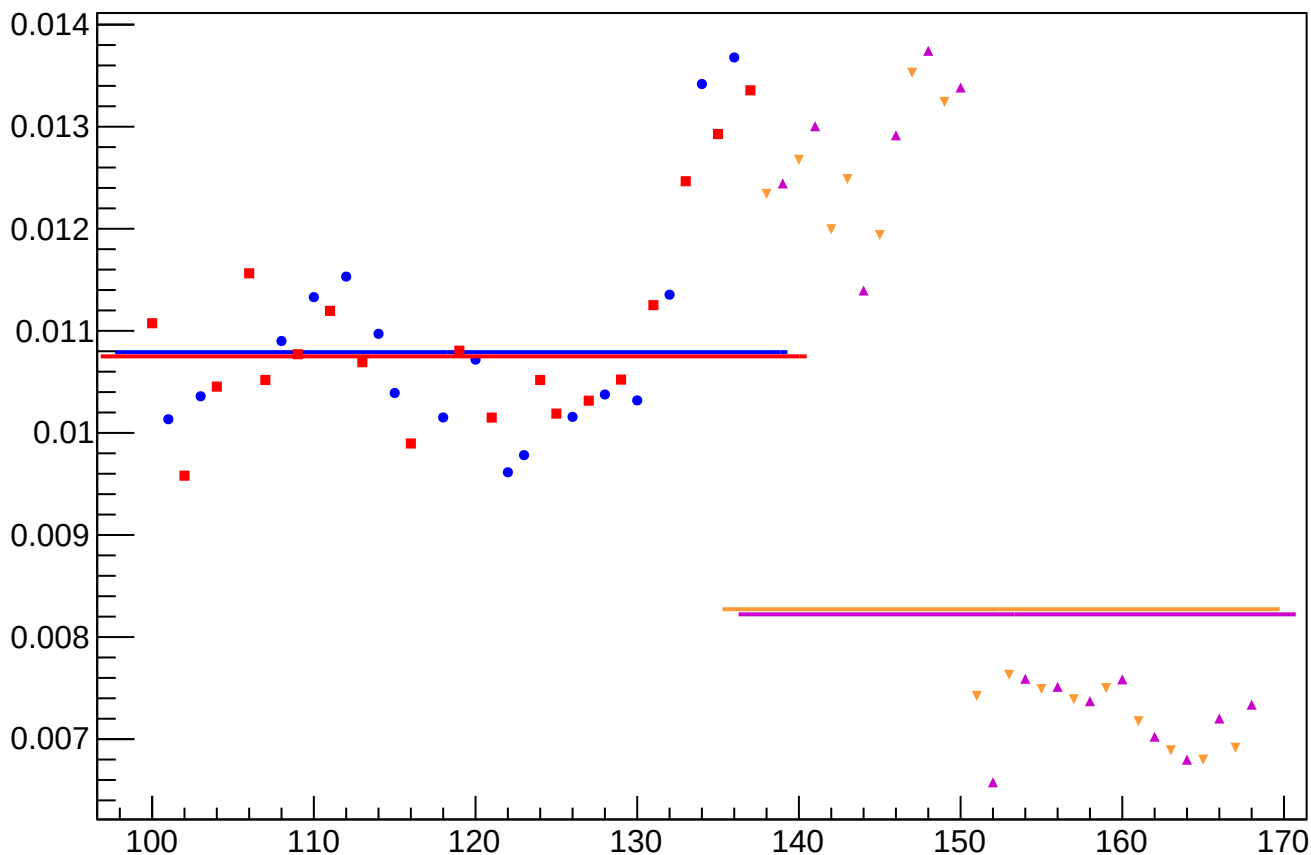
Left In: -0.724+/-0.000

χ²/NDF: 119814492938.8/14

All: -0.729+/-0.000

χ²/NDF: 247816208997.0

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 125802.4/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1462934.5/15

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 90220.8/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:1517645.1/14

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 2980978.5/30

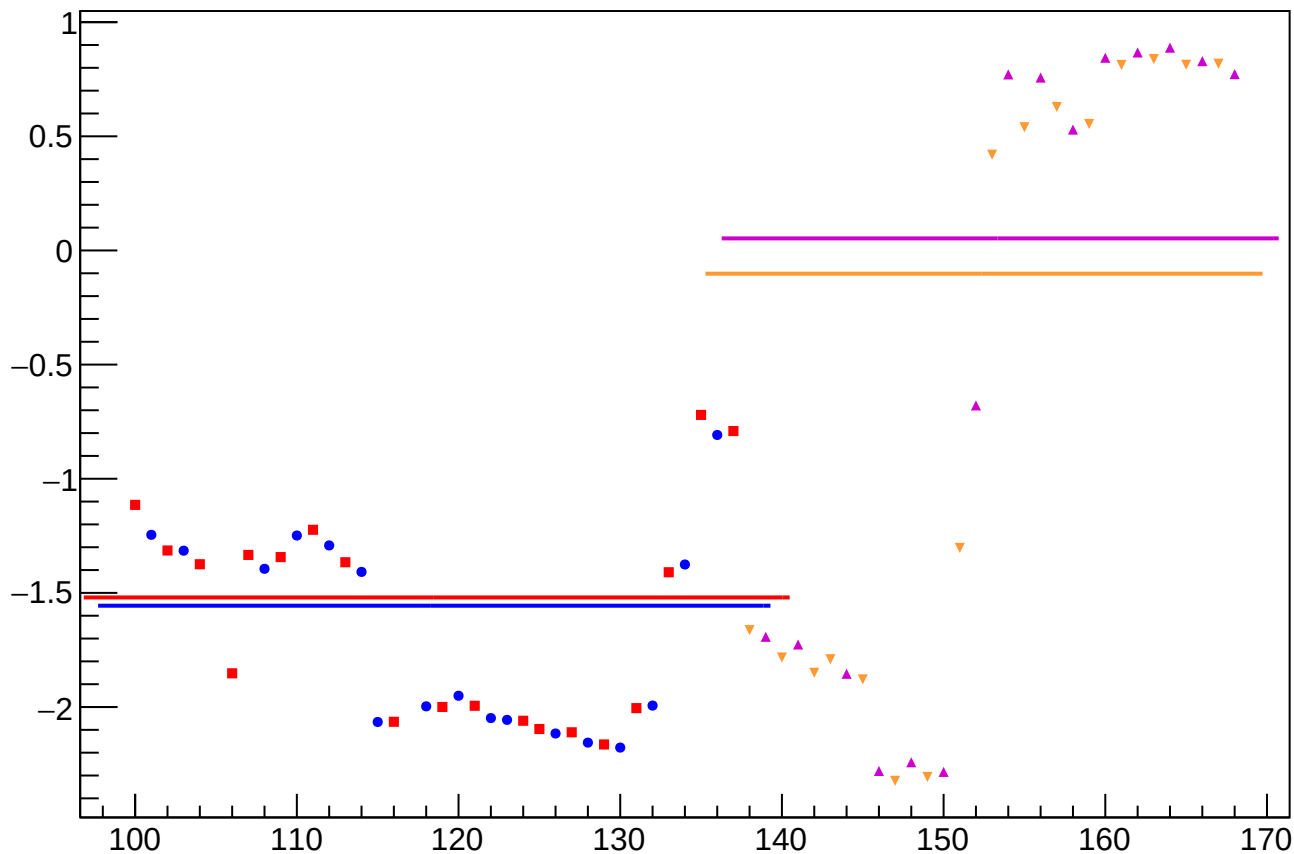
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 216122.9/35

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2192382.2/31

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2085577.9/34

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4278527.8/66

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -0.102+/-0.000 χ^2/NDF : 2052807044210.8/15

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.053+/-0.000 χ^2/NDF : 1971714948239.2/14

Left: -0.025+/-0.000 χ^2/NDF : 4041876942729.3/30

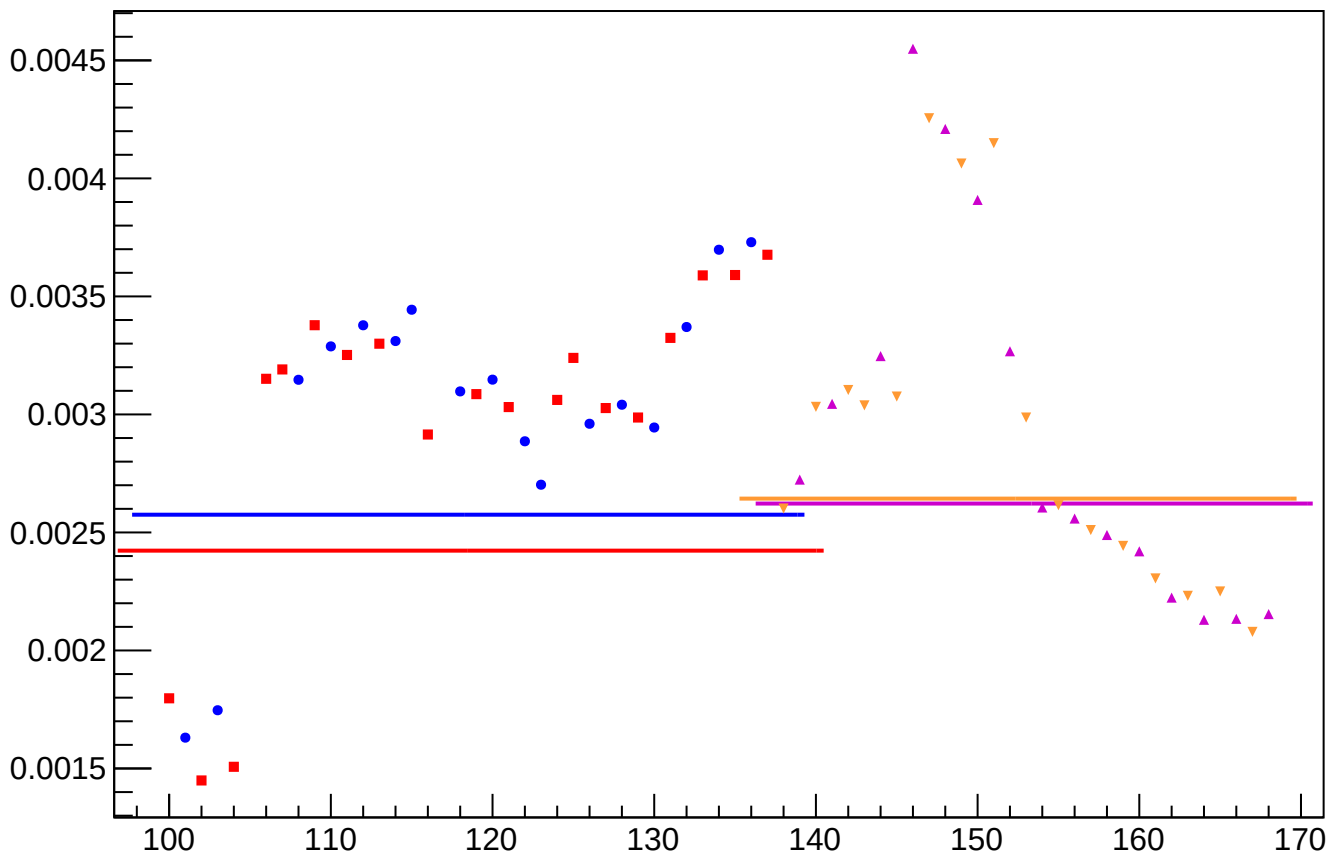
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.544+/-0.000 χ^2/NDF : 3516141580376.6/31

Out: -0.667+/-0.000 χ^2/NDF : 3359112048813.4/34

All: -0.607+/-0.000 χ^2/NDF : 6893136316494

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 :815112.5/15

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.003+/-0.000 χ^2/NDF :907095.8/14

Left: 0.003+/-0.000 χ^2/NDF : 1722844.3/30

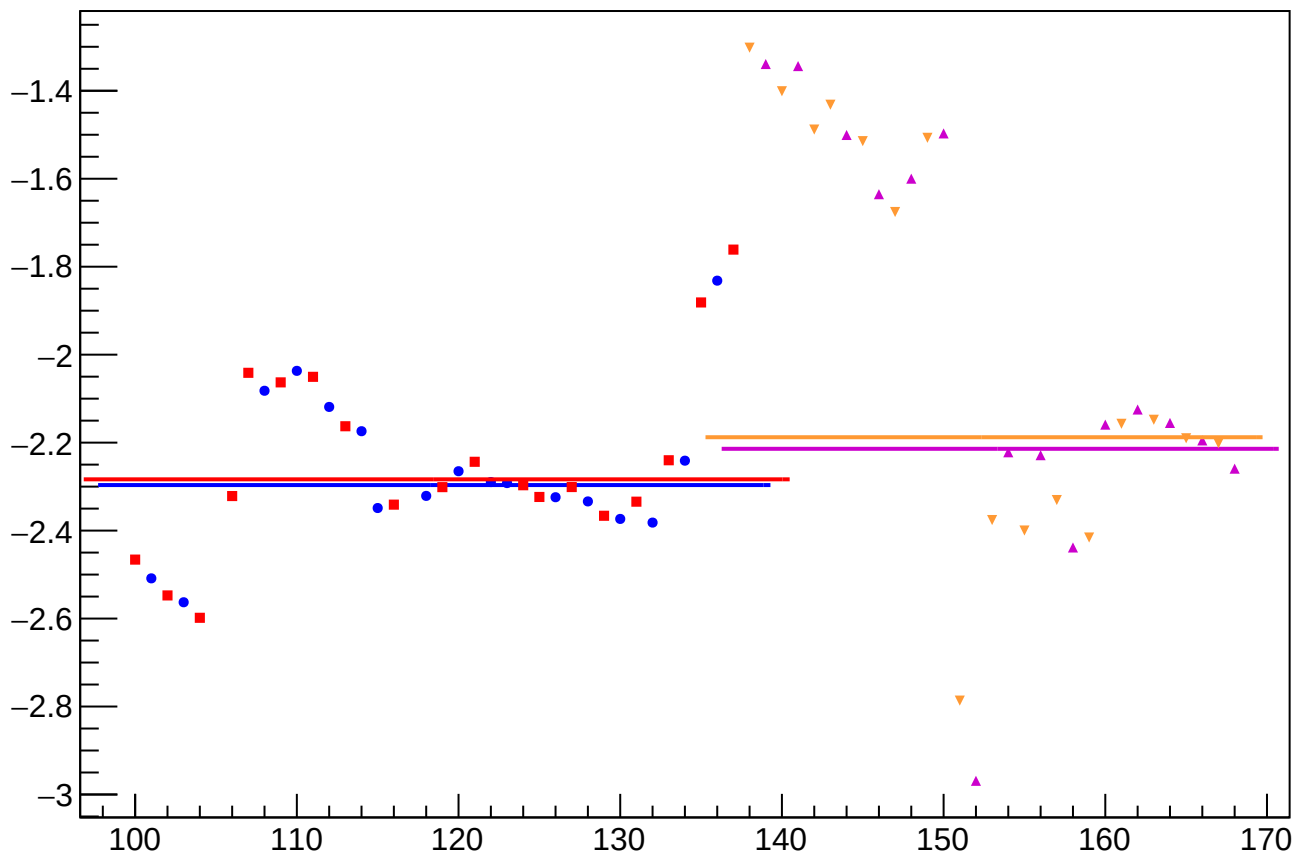
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF :1923324.1/31

Out: 0.003+/-0.000 χ^2/NDF :2361675.5/34

All: 0.003+/-0.000 χ^2/NDF : 4290769.1/66

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296 ± 0.000 $\chi^2/\text{NDF}: 5782980938.4/16$

Left Out: -2.188 ± 0.000 $\chi^2/\text{NDF}: 51026689165.1/15$

Right Out: -2.283 ± 0.000 $\chi^2/\text{NDF}: 6548716896.9/18$

Left In: -2.214 ± 0.000 $\chi^2/\text{NDF}: 66344947471.7/14$

Left: -2.201 ± 0.000 $\chi^2/\text{NDF}: 117513777645.1/30$

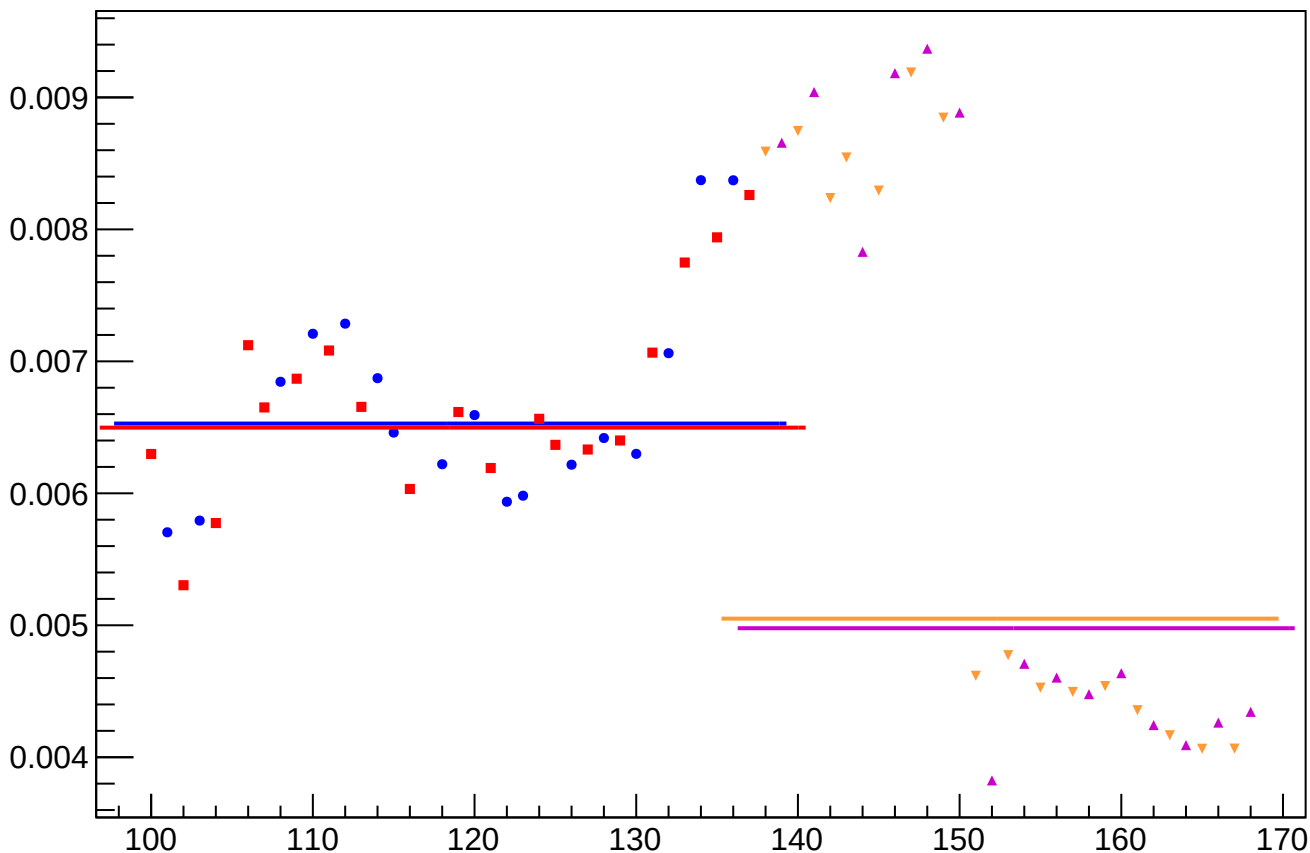
Right: -2.290 ± 0.000 $\chi^2/\text{NDF}: 12344935761.7/35$

In: -2.236 ± 0.000 $\chi^2/\text{NDF}: 72881223133.2/31$

Out: -2.215 ± 0.000 $\chi^2/\text{NDF}: 58632135345.0/34$

All: -2.225 ± 0.000 $\chi^2/\text{NDF}: 131644146512.1$

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2003309.4/15

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 164144.2/18

Left In: 0.005 $\pm$ 0.000 χ^2/NDF : 2099515.7/14

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 4104993.9/30

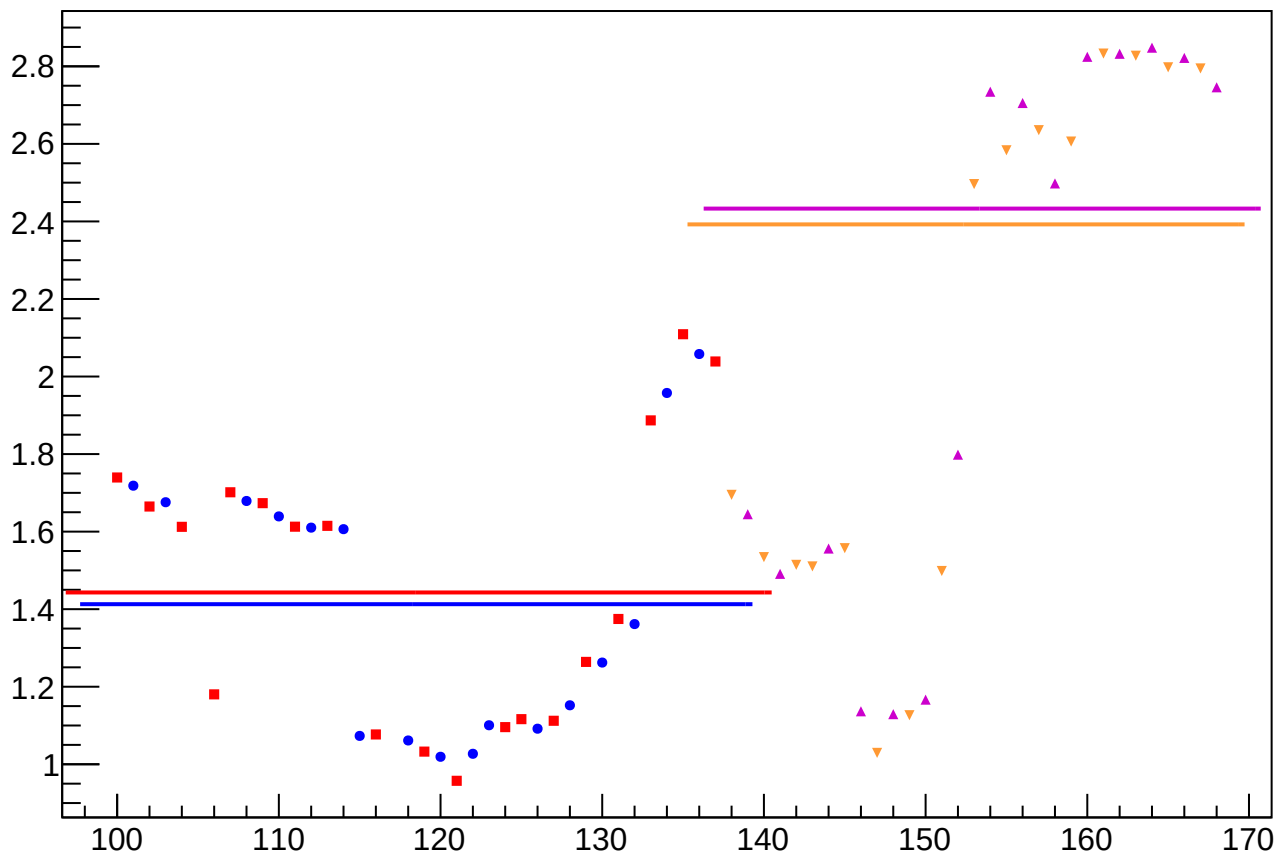
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 340761.0/35

In: 0.005 $\pm$ 0.000 χ^2/NDF : 2809403.5/31

Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2650652.1/34

All: 0.005 $\pm$ 0.000 χ^2/NDF : 5462361.7/66

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.392+/-0.000 χ^2/NDF : 222925118073.1/15

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.433+/-0.000 χ^2/NDF : 225004343721.9/14

Left: 2.413+/-0.000 χ^2/NDF : 448561039789.8/30

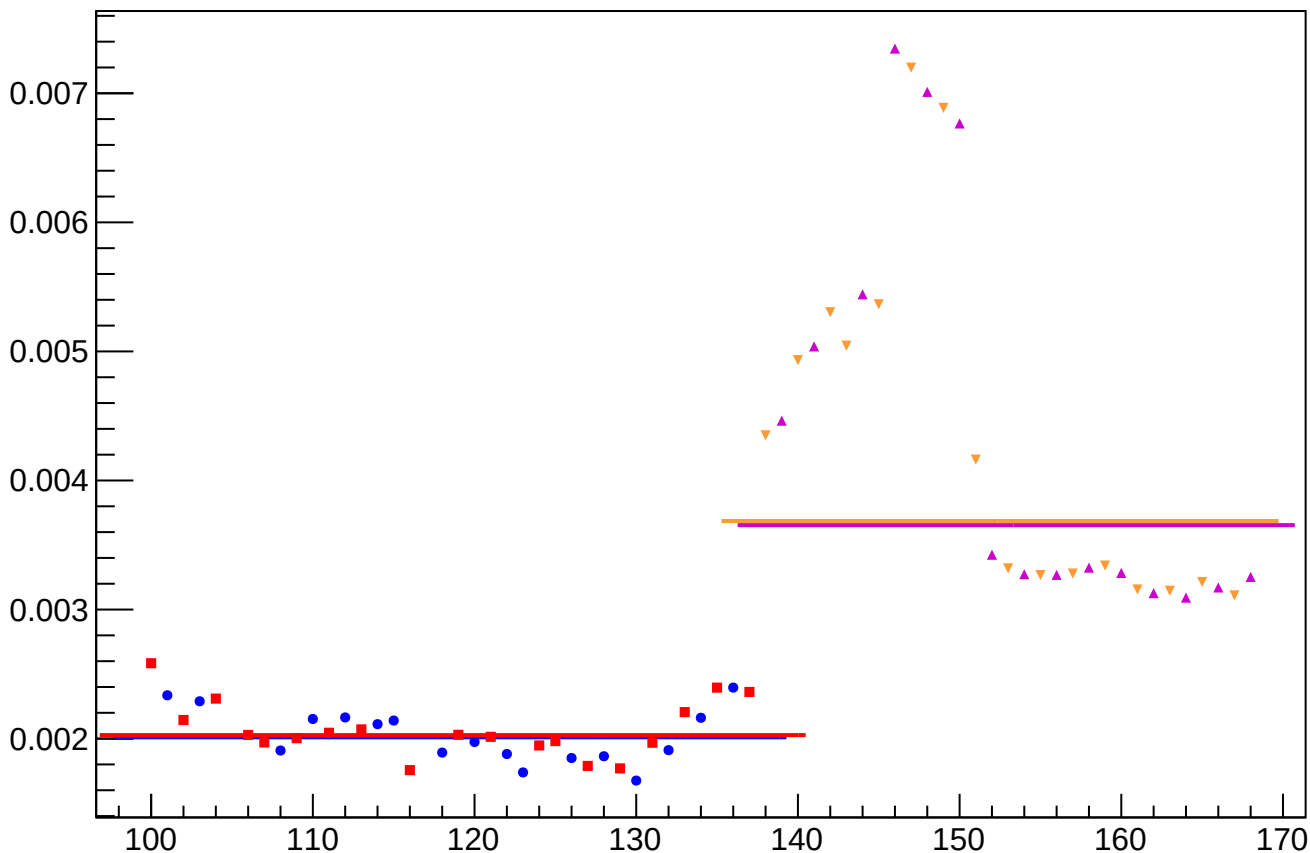
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.751+/-0.000 χ^2/NDF : 925070041254.4/31

Out: 1.753+/-0.000 χ^2/NDF : 860376994858.9/34

All: 1.752+/-0.000 χ^2/NDF : 1785449543495.

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 :1254800.7/15

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1443037.6/14

Left: 0.004+/-0.000 χ^2/NDF : 2698614.3/30

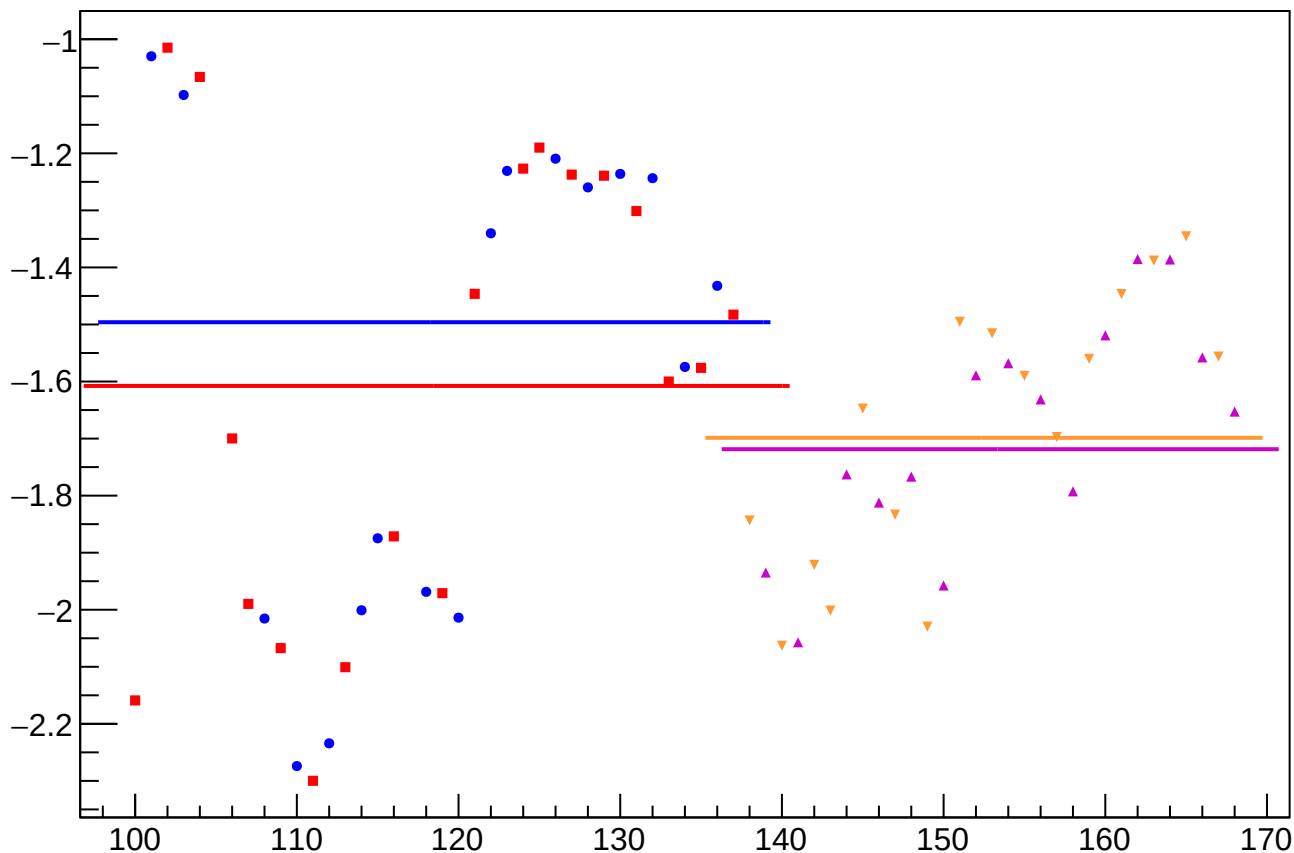
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4334630.6/31

Out: 0.003+/-0.000 χ^2/NDF :4193602.0/34

All: 0.003+/-0.000 χ^2/NDF : 8528612.3/66

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496 $\pm$ 0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.699 $\pm$ 0.000 χ^2/NDF : 15478655668.1/15

Right Out: -1.608 $\pm$ 0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.719 $\pm$ 0.000 χ^2/NDF : 10727054464.5/14

Left: -1.708 $\pm$ 0.000 χ^2/NDF : 26262480265.7/30

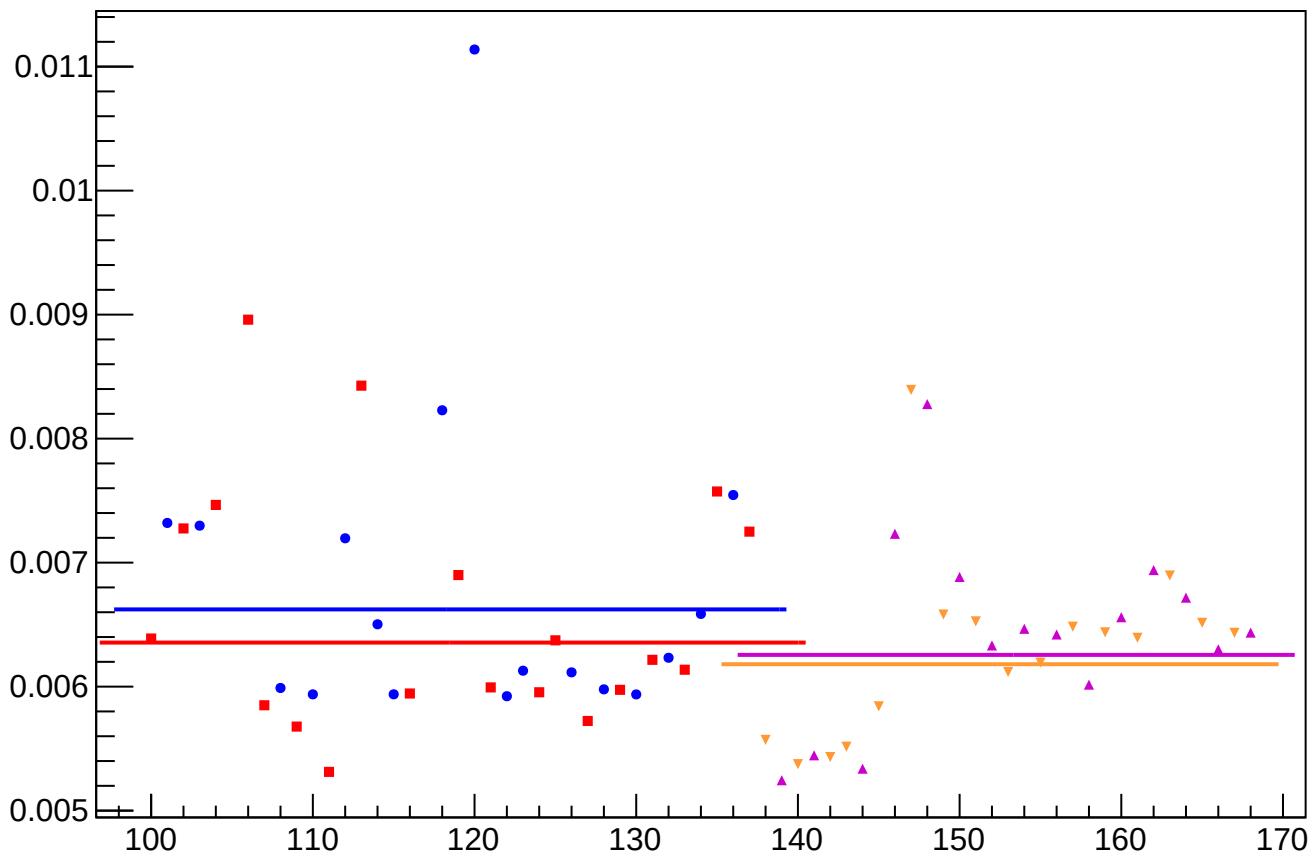
Right: -1.556 $\pm$ 0.000 χ^2/NDF : 51297044912.1/35

In: -1.645 $\pm$ 0.000 χ^2/NDF : 37840963122.2/31

Out: -1.666 $\pm$ 0.000 χ^2/NDF : 44180612512.9/34

All: -1.656 $\pm$ 0.000 χ^2/NDF : 82122230974.7/70

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 :225876.7/15

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :288279.2/14

Left: 0.006+/-0.000 χ^2/NDF : 515767.6/30

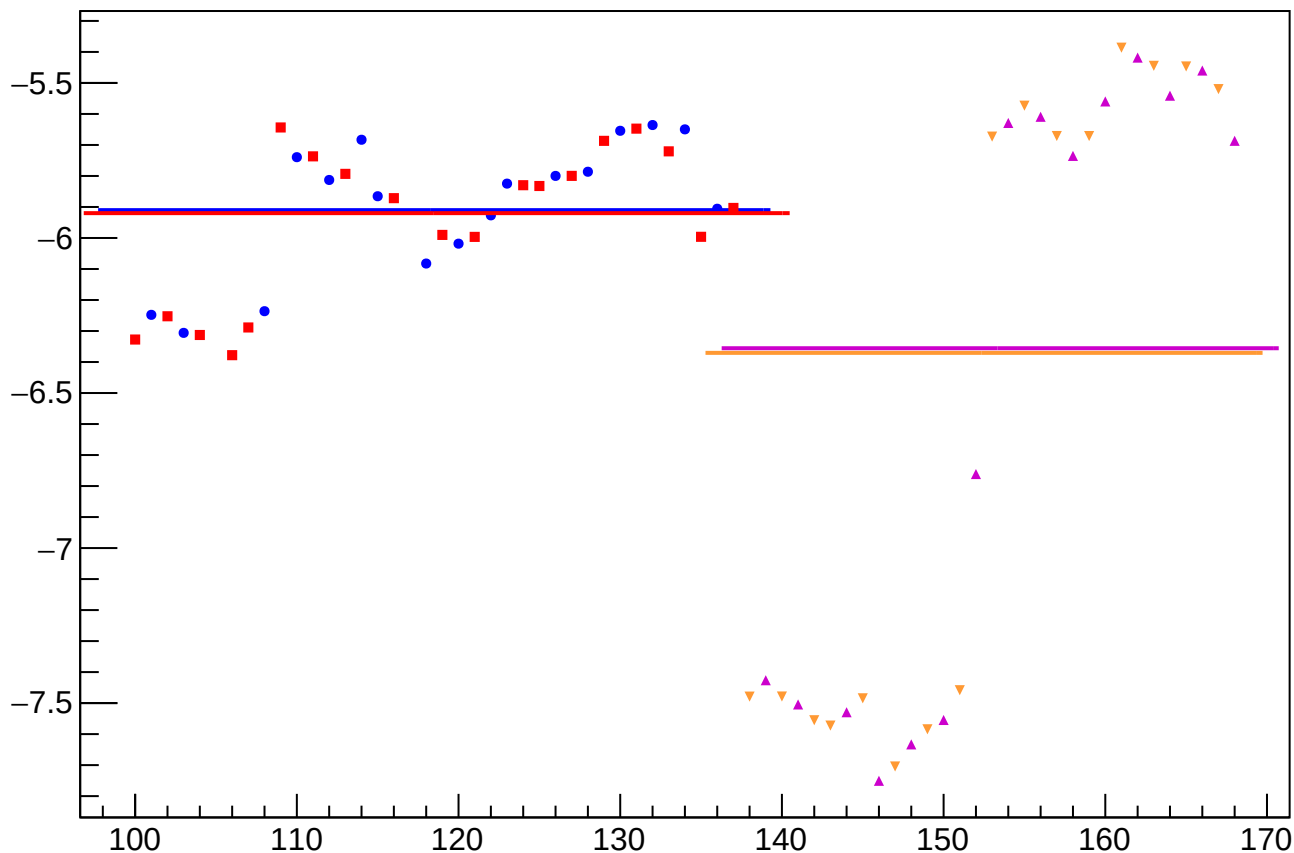
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :545839.0/31

Out: 0.006+/-0.000 χ^2/NDF :460114.0/34

All: 0.006+/-0.000 χ^2/NDF : 1013852.4/66

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.370+/-0.000 χ^2/NDF : 158536643830.2/15

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.356+/-0.000 χ^2/NDF : 133566326139.1/14

Left: -6.363+/-0.000 χ^2/NDF : 292120812896.4/30

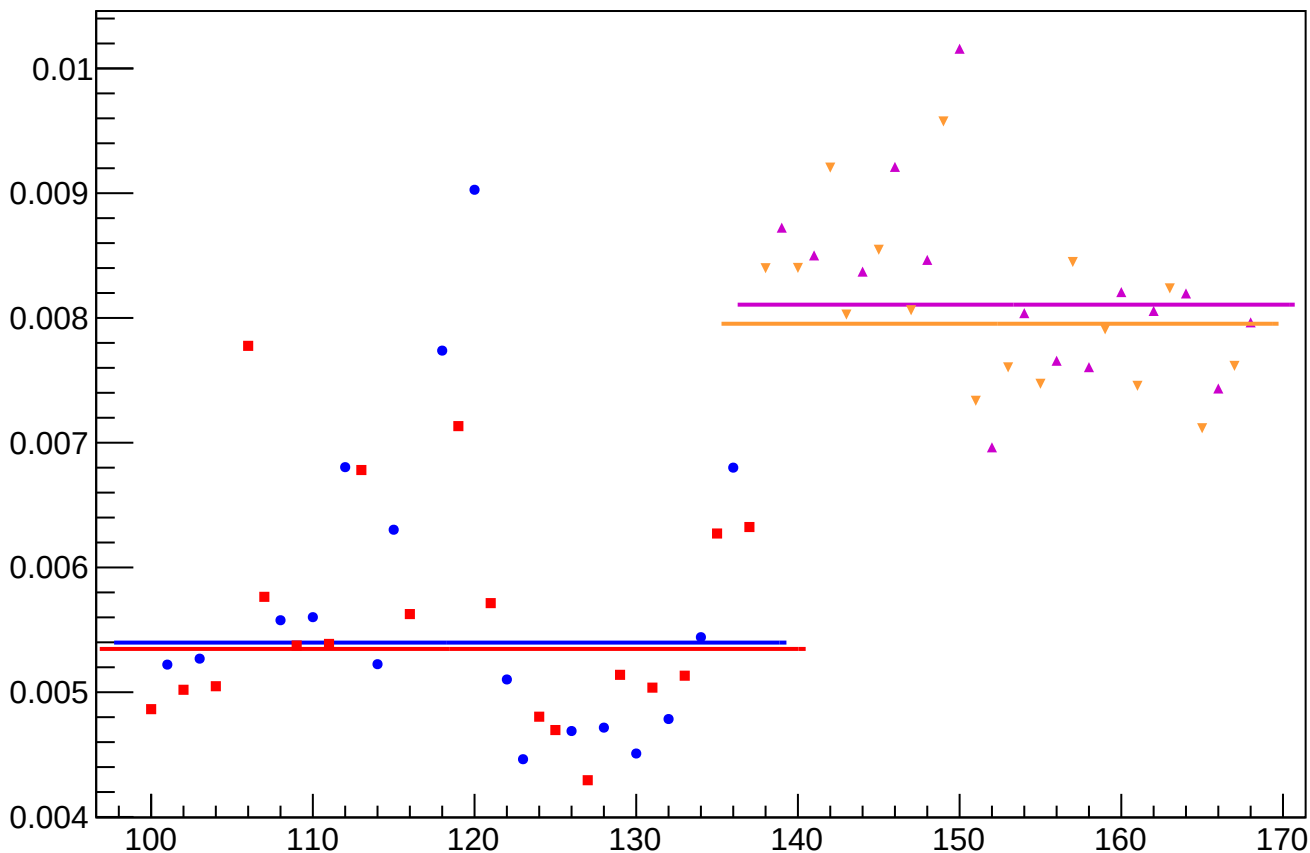
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.105+/-0.000 χ^2/NDF : 162352586999.8/31

Out: -6.111+/-0.000 χ^2/NDF : 190473760485.6/34

All: -6.108+/-0.000 χ^2/NDF : 352831620781.1

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 :115442.3/15

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :151547.5/14

Left: 0.008+/-0.000 χ^2/NDF : 270753.1/30

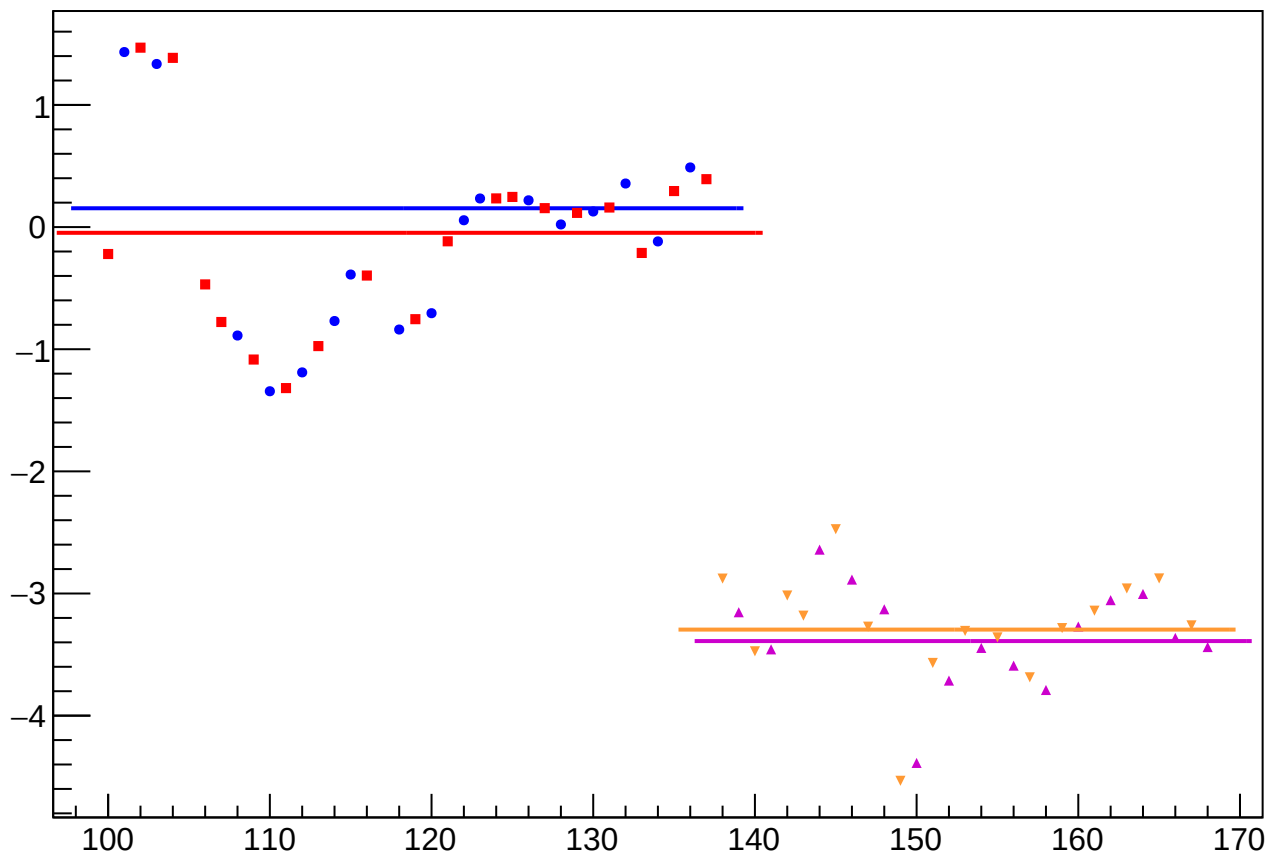
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1827307.9/31

Out: 0.006+/-0.000 χ^2/NDF :1646616.0/34

All: 0.007+/-0.000 χ^2/NDF : 3480628.3/66

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.295+/-0.000 χ^2/NDF : 7932734182.2/15

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.389+/-0.000 χ^2/NDF : 6859425996.6/14

Left: -3.342+/-0.000 χ^2/NDF : 14984085156.8/30

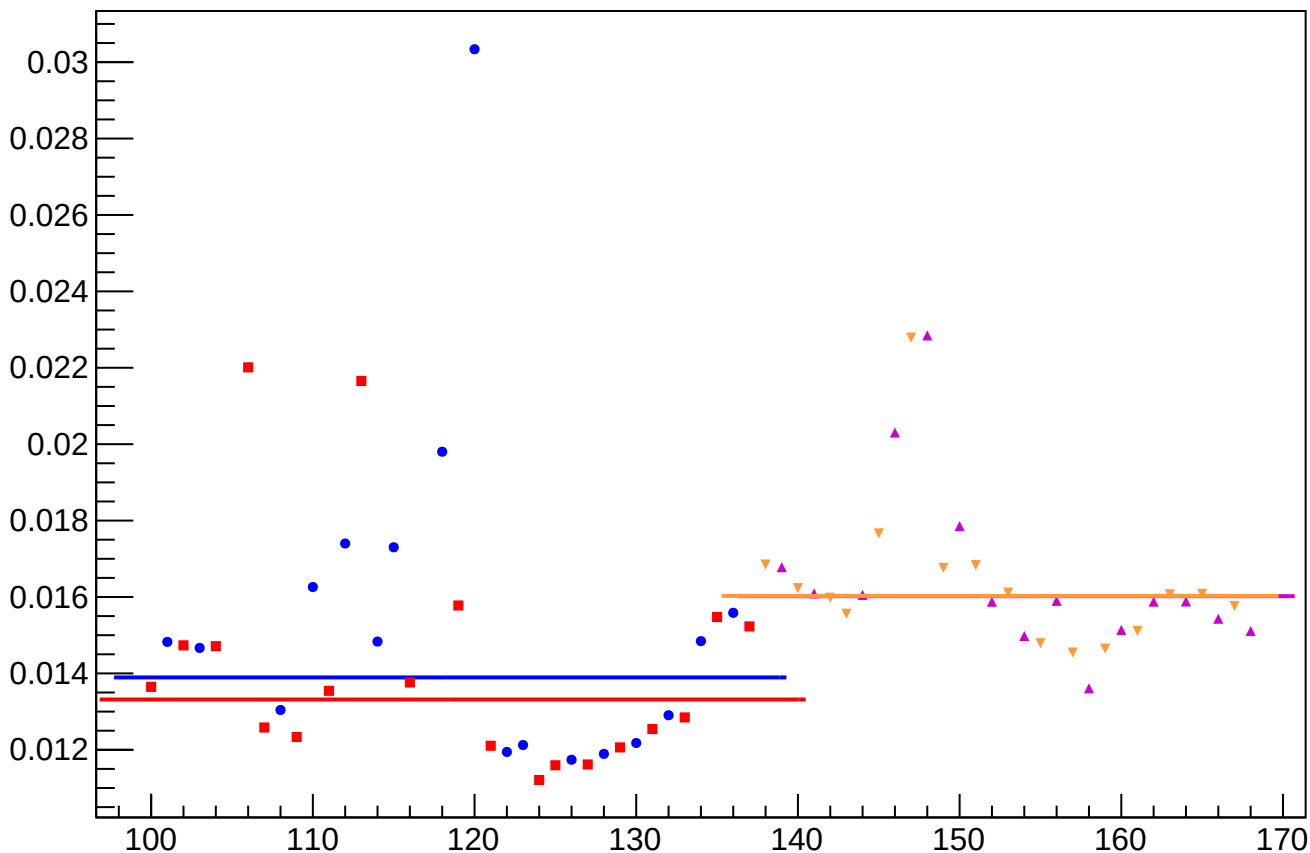
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.914+/-0.000 χ^2/NDF : 248665338387.0/31

Out: -1.823+/-0.000 χ^2/NDF : 239260010500.2/34

All: -1.867+/-0.000 χ^2/NDF : 488249669209.2

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:194623.6/15

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 291358.0/18

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:283488.3/14

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 478114.6/30

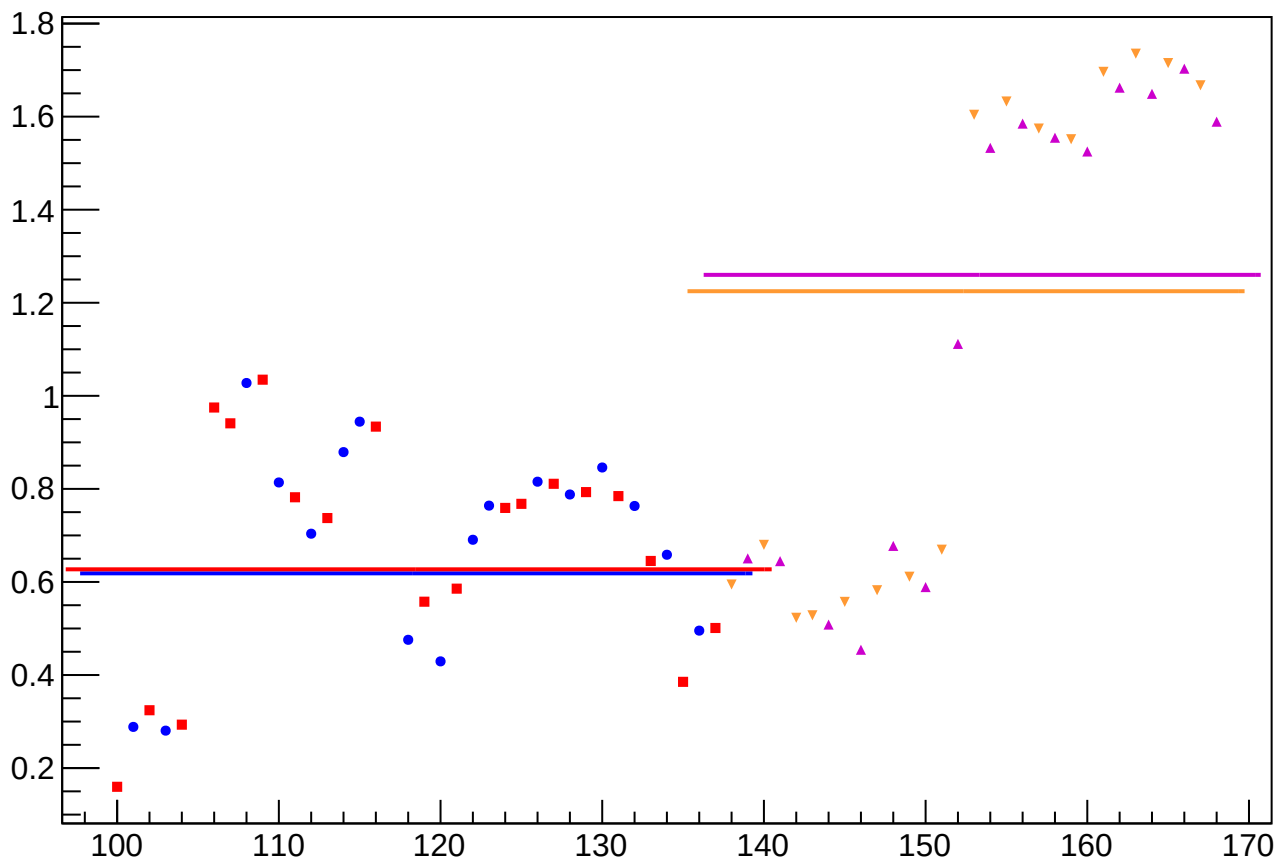
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 703029.7/35

In: 0.015 $\pm$ 0.000 χ^2 /NDF:845989.5/31

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:778815.7/34

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 1633506.8/66

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.225+/-0.000 χ^2/NDF : 61922510153.1/15

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.260+/-0.000 χ^2/NDF : 53988312255.2/14

Left: 1.243+/-0.000 χ^2/NDF : 116065082290.8/30

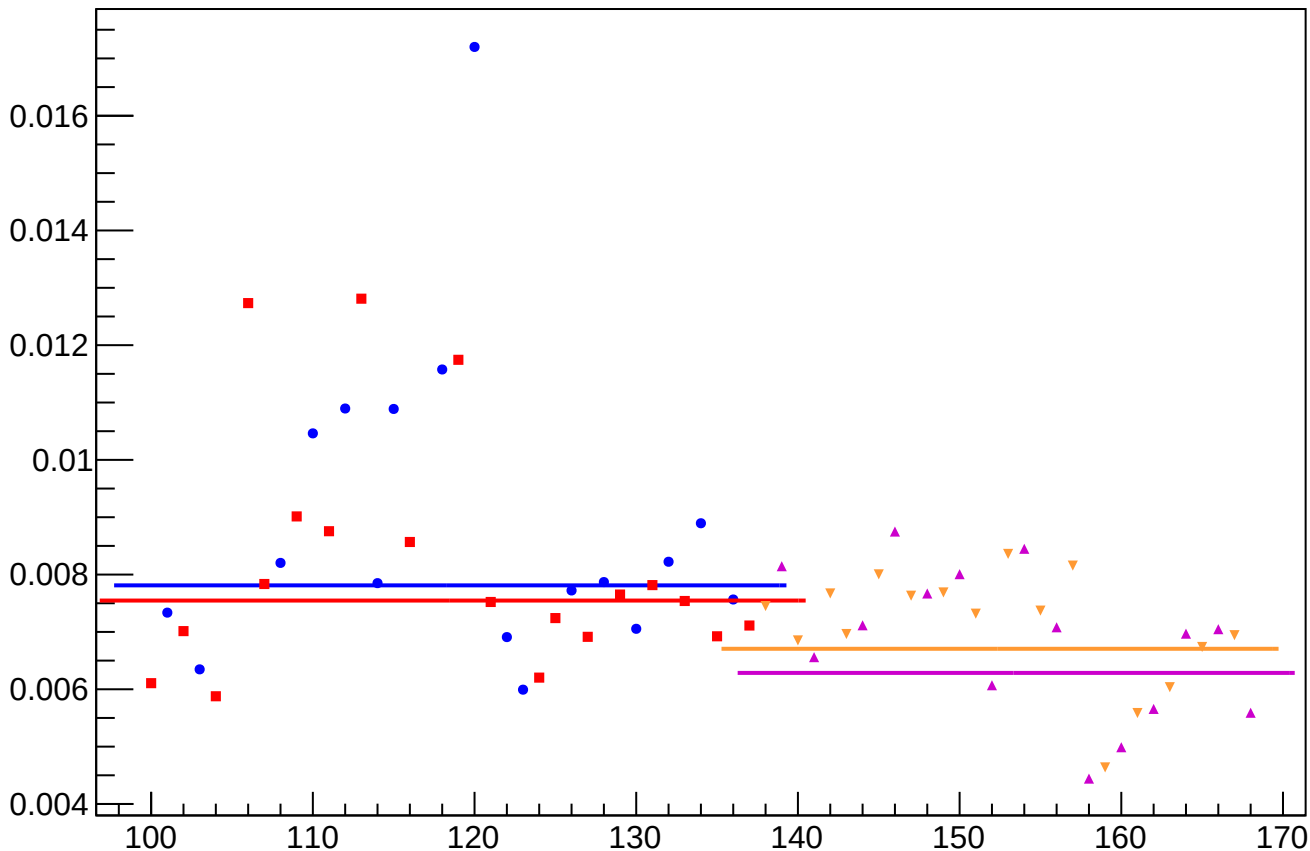
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.091+/-0.000 χ^2/NDF : 88285490654.2/31

Out: 1.036+/-0.000 χ^2/NDF : 94826644845.6/34

All: 1.064+/-0.000 χ^2/NDF : 183639634461.4

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.007+/-0.000 χ^2/NDF : 617320.9/15

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 885390.3/14

Left: 0.006+/-0.000 χ^2/NDF : 1546899.0/30

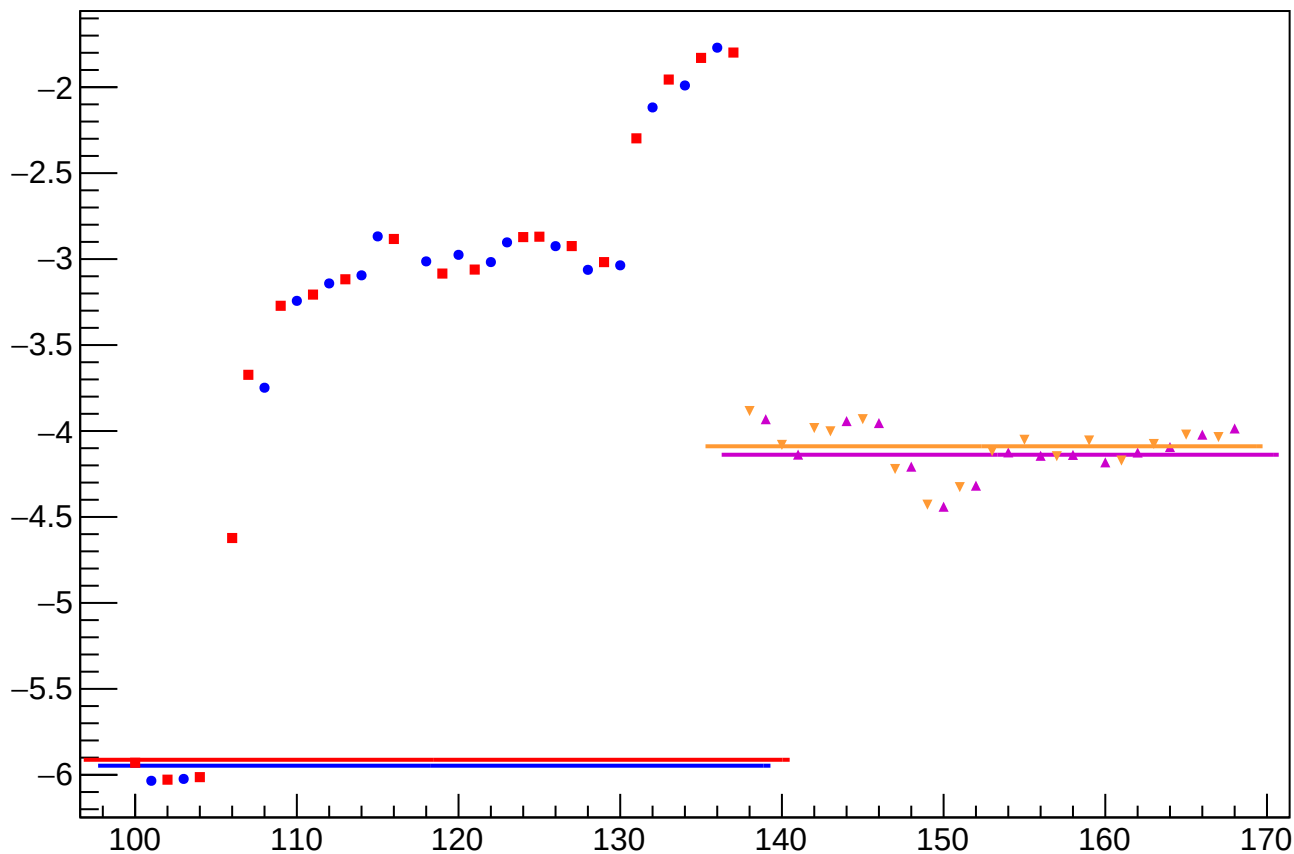
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1679326.6/31

Out: 0.007+/-0.000 χ^2/NDF : 1164361.9/34

All: 0.007+/-0.000 χ^2/NDF : 2872029.2/66

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2 /NDF: 13165963559.5/16

Left Out: -4.089+/-0.000 χ^2 /NDF: 32287533.9/15

Right Out: -5.912+/-0.000 χ^2 /NDF: 14619971495.0/18

Left In: -4.138+/-0.000 χ^2 /NDF: 24202918.2/14

Left: -4.115+/-0.000 χ^2 /NDF: 58645146.9/30

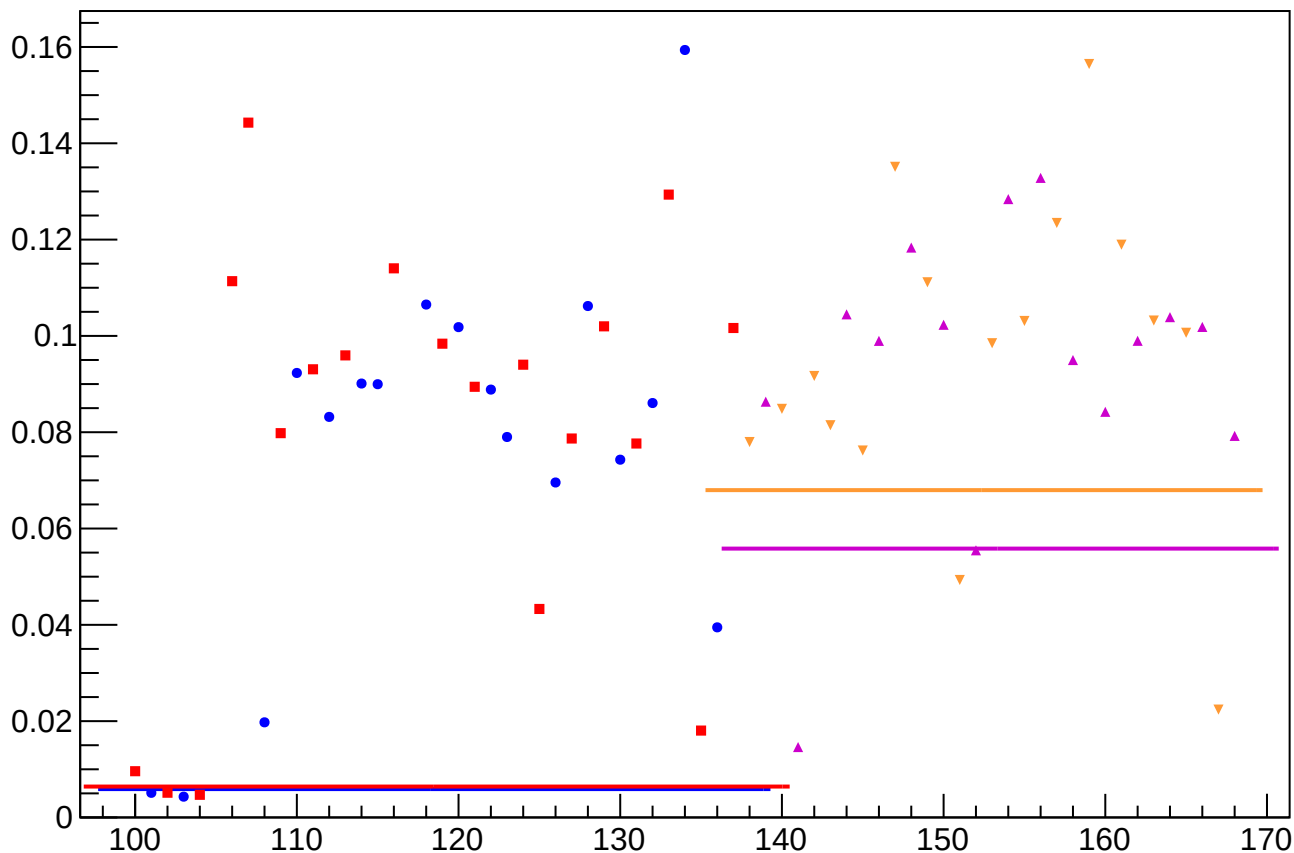
Right: -5.932+/-0.000 χ^2 /NDF: 27811040884.1/35

In: -5.877+/-0.000 χ^2 /NDF: 19187836427.1/31

Out: -5.836+/-0.000 χ^2 /NDF: 19972403432.2/34

All: -5.859+/-0.000 χ^2 /NDF: 39197146458.6/70

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.068+/-0.000 χ^2/NDF : 4448153.1/15

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.056+/-0.000 χ^2/NDF : 6445988.0/14

Left: 0.061+/-0.000 χ^2/NDF : 11156665.5/30

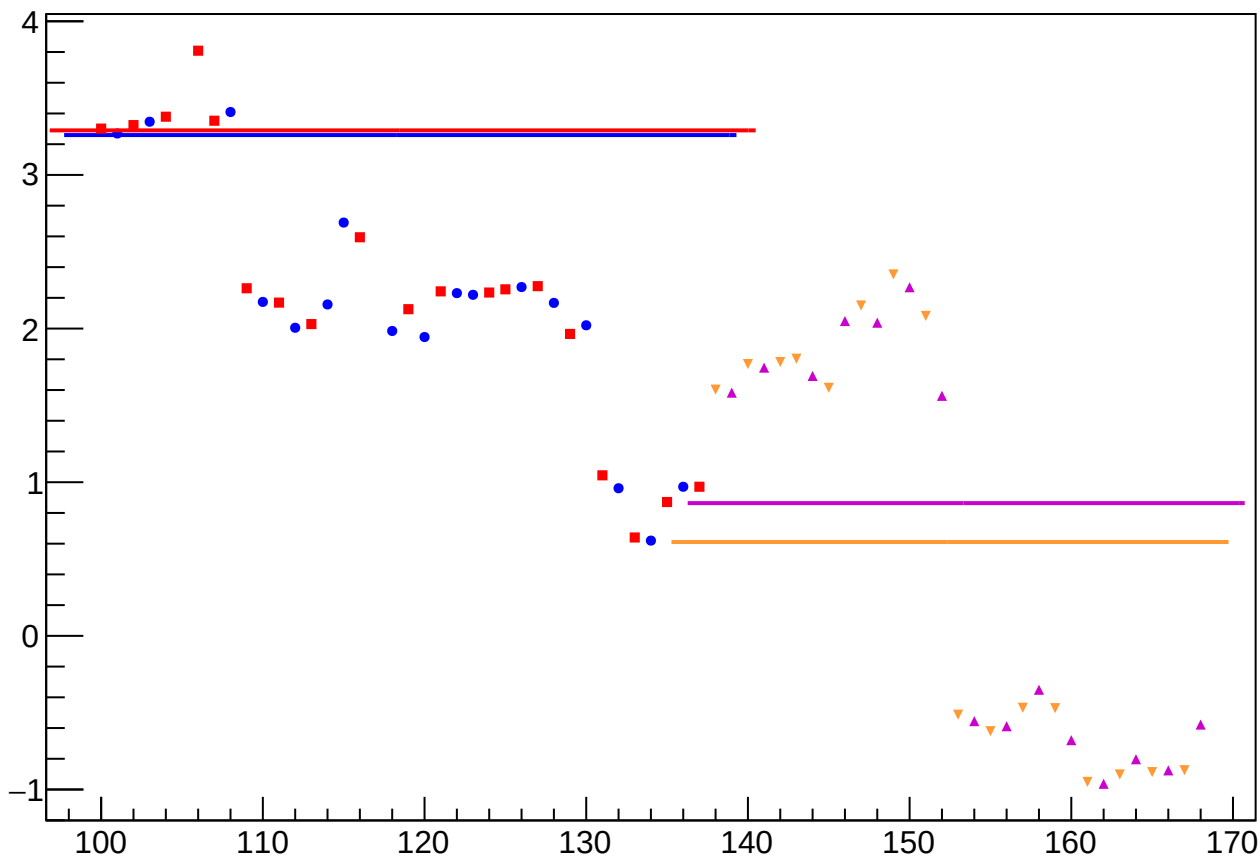
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 23524224.8/31

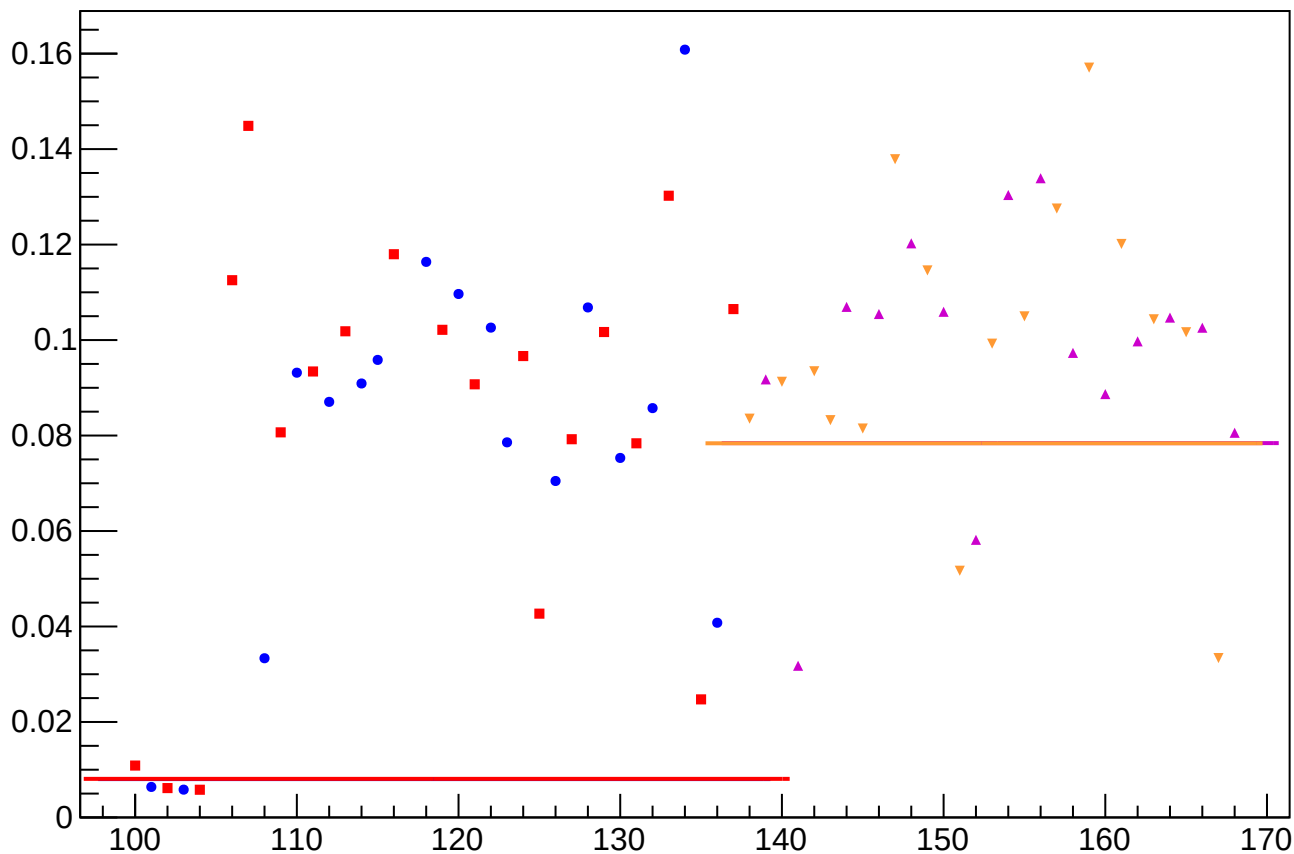
Out: 0.009+/-0.000 χ^2/NDF : 25071597.3/34

All: 0.008+/-0.000 χ^2/NDF : 48656525.2/66

yield_bpm0l03Y_mean vs Slug, Sign Corrected



yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.078+/-0.000 χ^2/NDF : 2961526.5/15

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.078+/-0.000 χ^2/NDF : 2746041.3/14

Left: 0.078+/-0.000 χ^2/NDF : 5707569.7/30

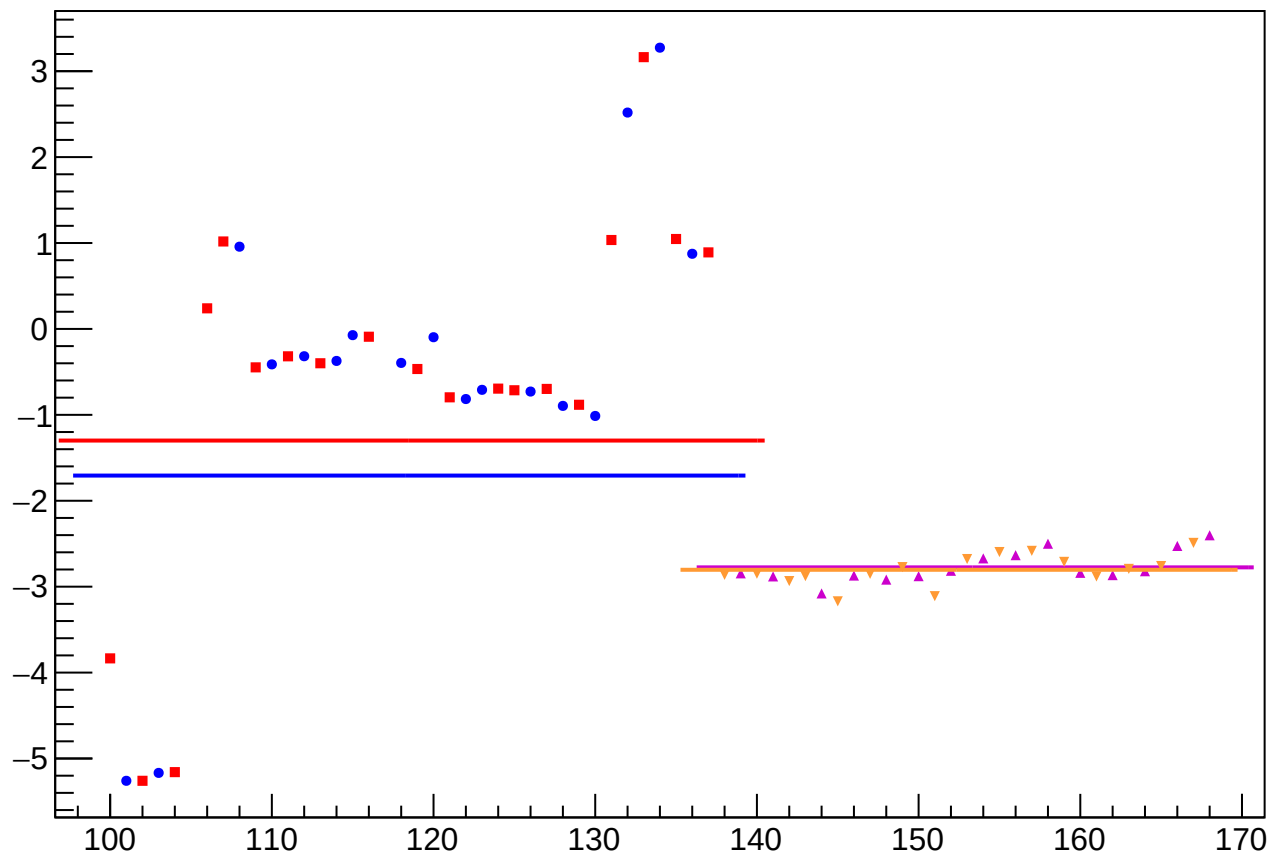
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF : 22771202.6/31

Out: 0.012+/-0.000 χ^2/NDF : 24350021.8/34

All: 0.011+/-0.000 χ^2/NDF : 47129186.0/66

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000

χ²/NDF: 166125579390.4/16

Left: -2.790+/-0.000

χ²/NDF: 11992131301.1/30

Left Out: -2.803+/-0.000

χ²/NDF: 5802967239.9/15

Right: -1.489+/-0.000

χ²/NDF: 346196986988.8/35

Right Out: -1.299+/-0.000

χ²/NDF: 178036726841.2/18

In: -2.656+/-0.000

χ²/NDF: 195458236883.1/31

Out: -2.617+/-0.000

χ²/NDF: 236037630985.9/34

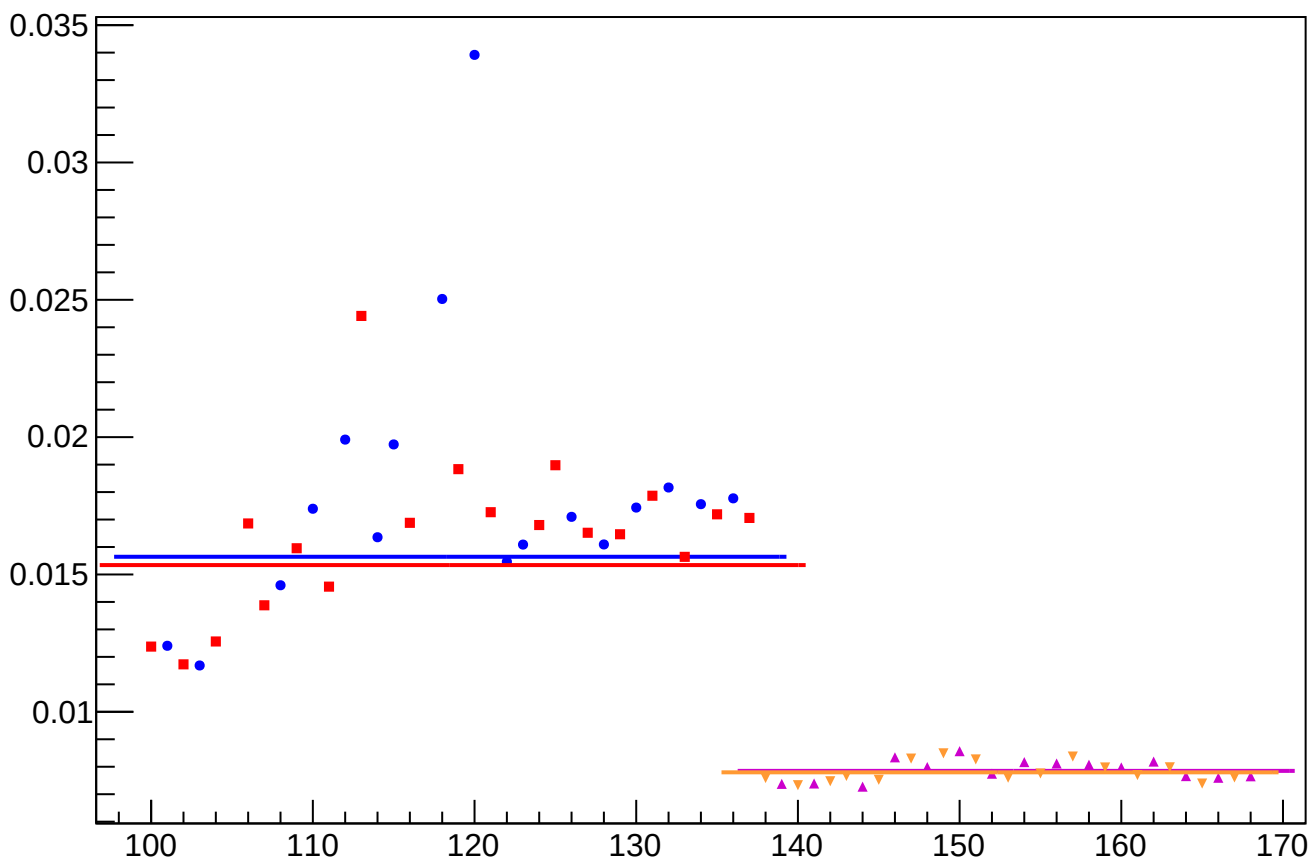
Left In: -2.775+/-0.000

χ²/NDF: 6116530633.1/14

All: -2.636+/-0.000

χ²/NDF: 431649860453.6

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 45492.7/15

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 50923.2/14

Left: 0.008+/-0.000 χ^2/NDF : 96926.9/30

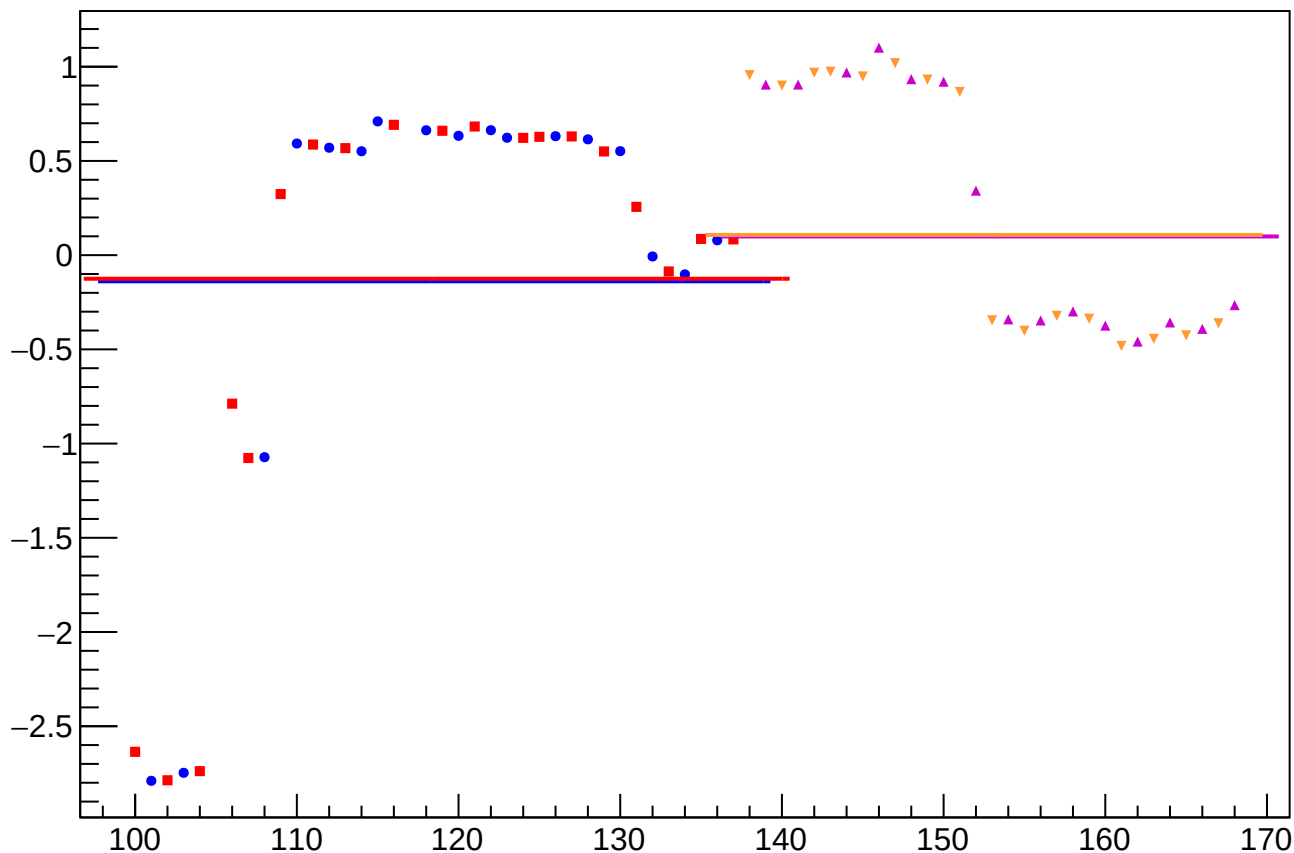
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3100927.4/31

Out: 0.009+/-0.000 χ^2/NDF : 3026473.9/34

All: 0.009+/-0.000 χ^2/NDF : 6127415.7/66

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: 0.103+/-0.000 χ^2/NDF : 219893140952.0/30

Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

Left Out: 0.107+/-0.000

χ^2/NDF : 119710501748.0/15

In: -0.054+/-0.000 χ^2/NDF : 825606454426.1/31

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

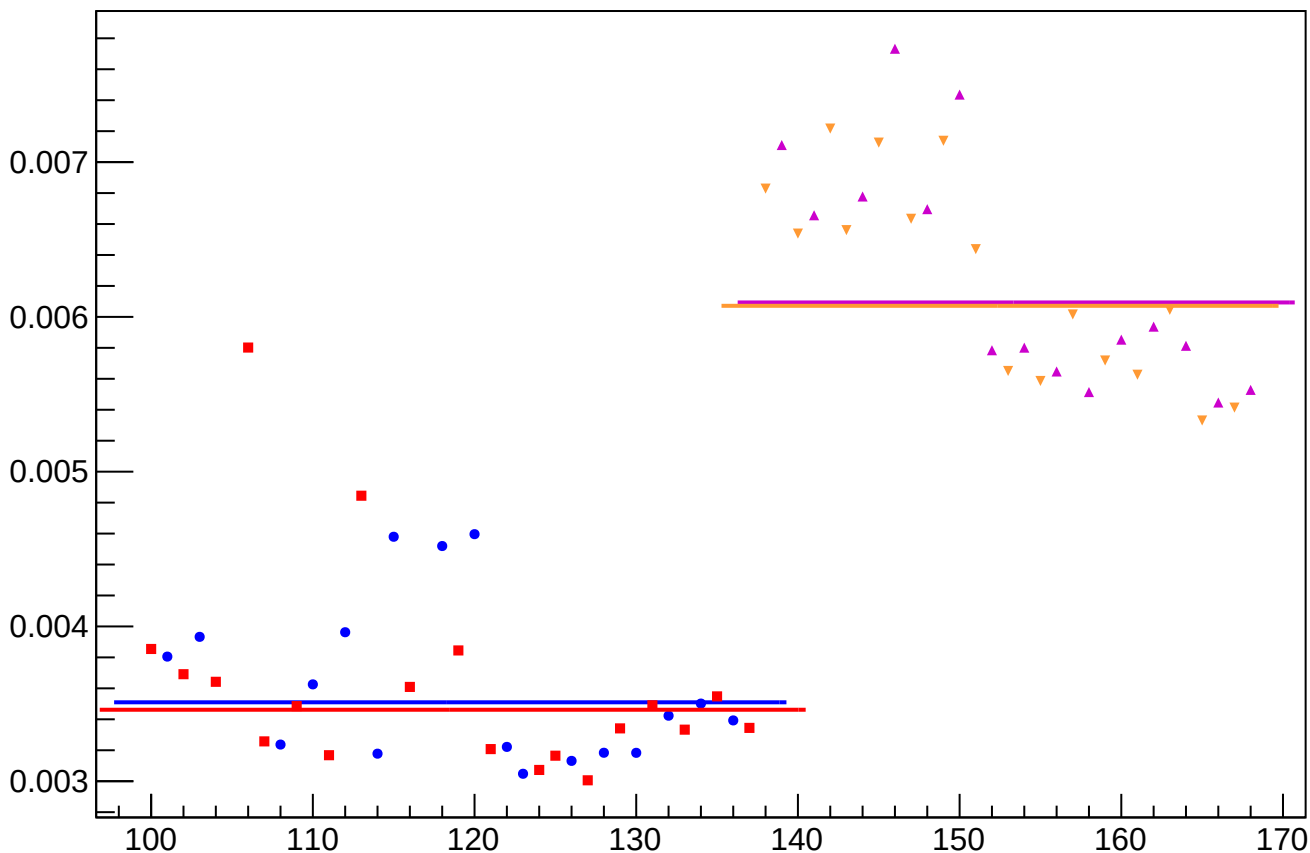
Out: -0.046+/-0.000 χ^2/NDF : 891475522037.3/34

Left In: 0.099+/-0.000

χ^2/NDF : 100173162652.5/14

All: -0.050+/-0.000 χ^2/NDF : 1717103579369

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 :200542.9/15

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :242286.0/14

Left: 0.006+/-0.000 χ^2/NDF : 442963.8/30

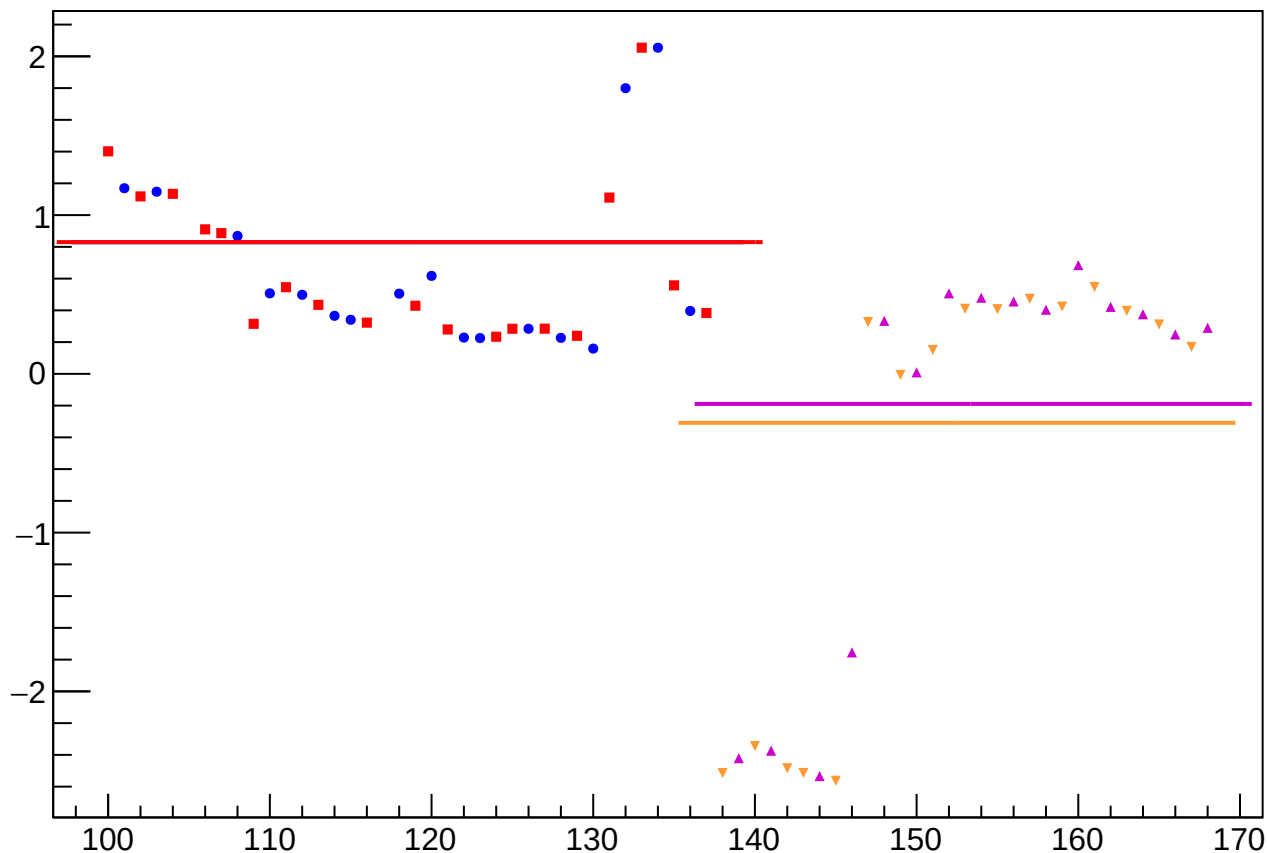
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2861188.7/31

Out: 0.004+/-0.000 χ^2/NDF :3004448.2/34

All: 0.004+/-0.000 χ^2/NDF : 5872013.9/66

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.309+/-0.000 χ^2/NDF : 449559037228.4/15

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.189+/-0.000 χ^2/NDF : 390745325213.0/14

Left: -0.249+/-0.000 χ^2/NDF : 842556153960.6/30

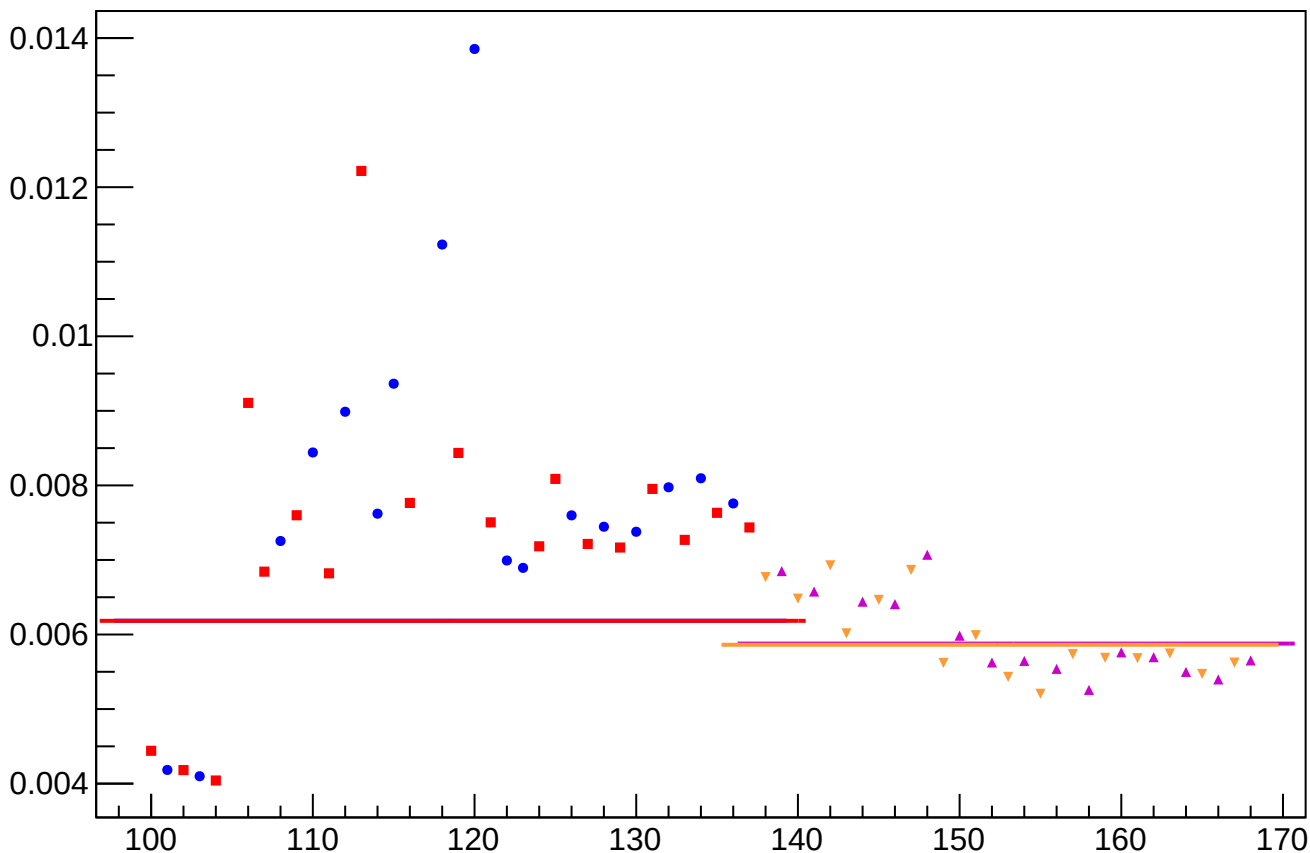
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.122+/-0.000 χ^2/NDF : 522457714641.4/31

Out: 0.059+/-0.000 χ^2/NDF : 616247470584.0/34

All: 0.090+/-0.000 χ^2/NDF : 1139641674858.0/69

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 : 148691.8/15

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF : 160366.3/14

Left: 0.006+/-0.000 χ^2/NDF : 309137.0/30

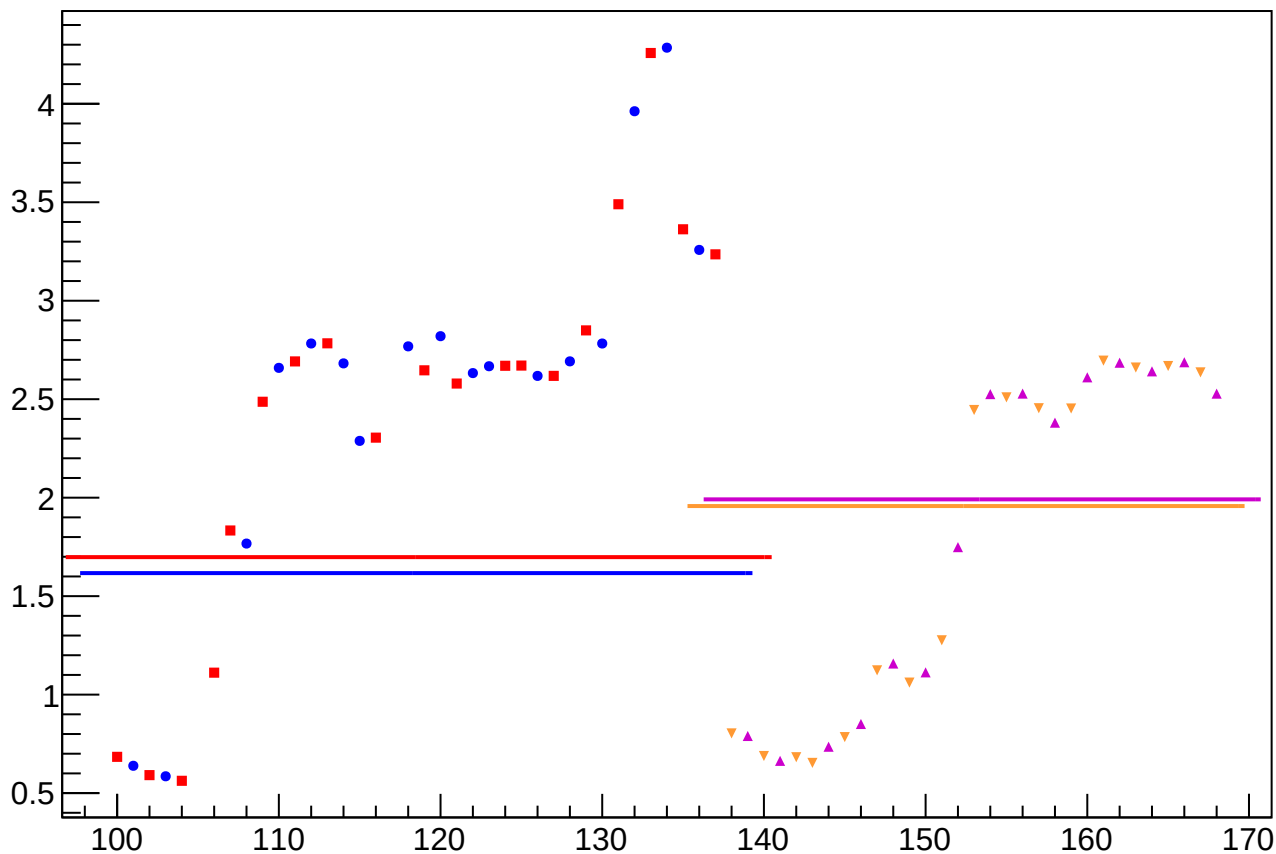
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1407446.2/31

Out: 0.006+/-0.000 χ^2/NDF : 1196748.6/34

All: 0.006+/-0.000 χ^2/NDF : 2604211.5/66

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.957+/-0.000 χ^2/NDF : 244647498411.7/15

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 1.991+/-0.000 χ^2/NDF : 212132712832.5/14

Left: 1.974+/-0.000 χ^2/NDF : 456987685359.8/30

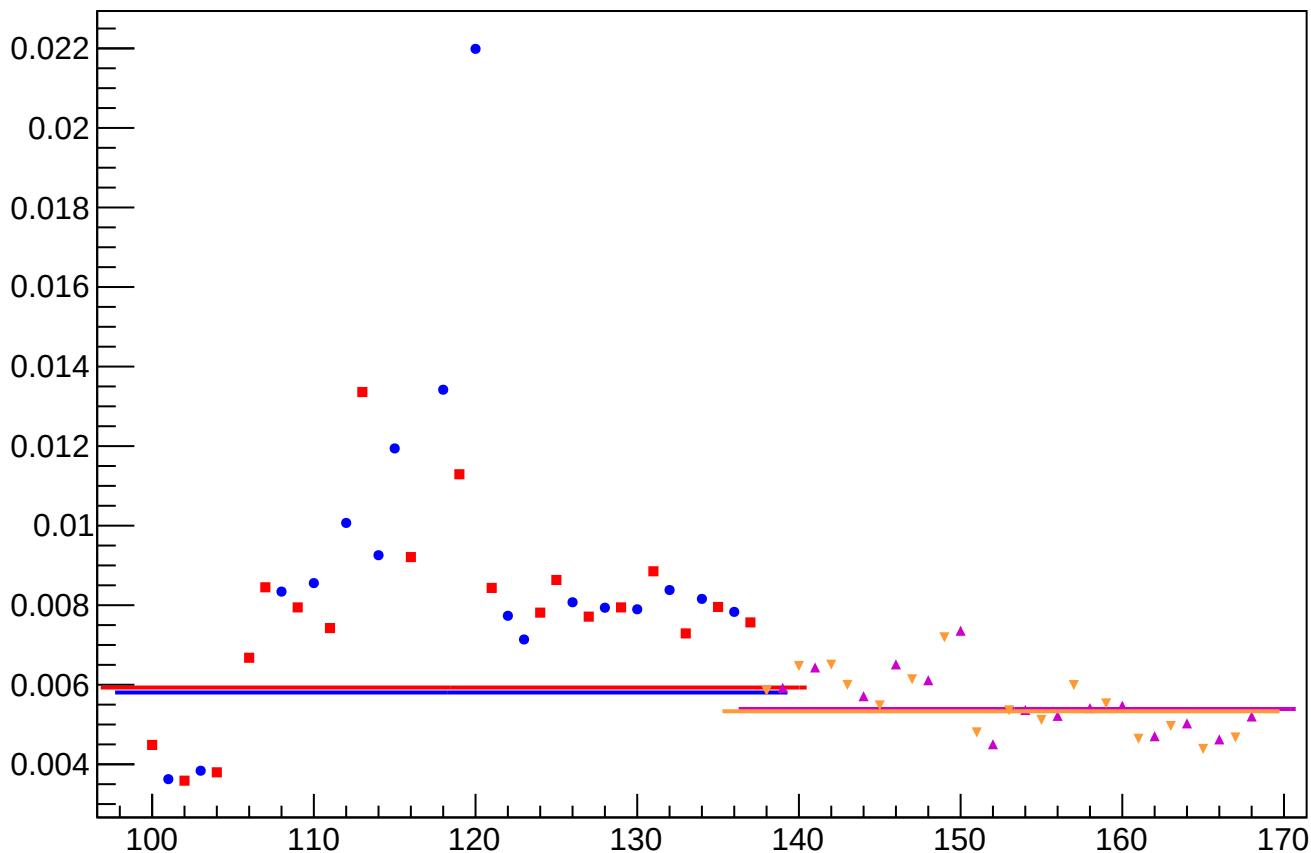
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 1.884+/-0.000 χ^2/NDF : 429349284542.9/31

Out: 1.881+/-0.000 χ^2/NDF : 479274909510.5/34

All: 1.883+/-0.000 χ^2/NDF : 908627000627.9

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 : 361044.3/15

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 342408.6/14

Left: 0.005+/-0.000 χ^2/NDF : 704675.7/30

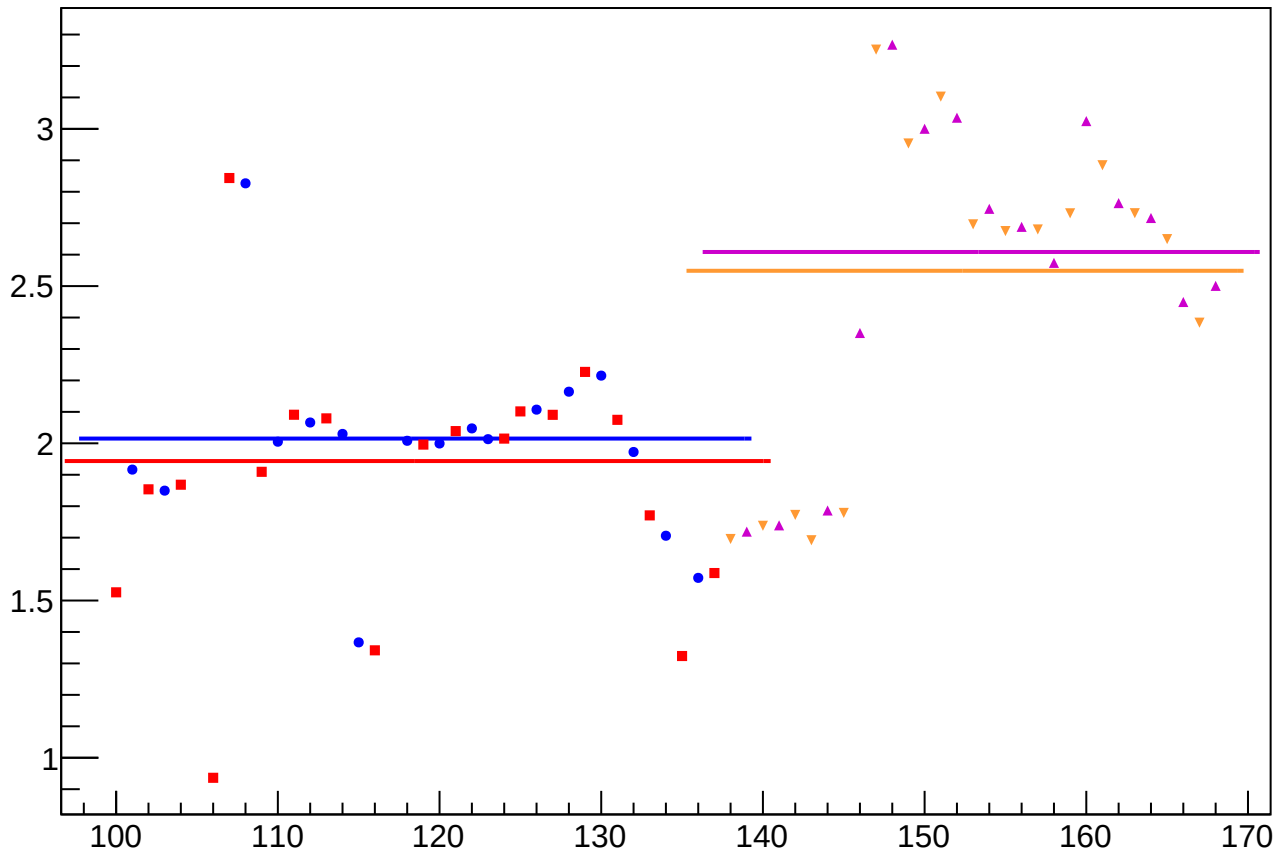
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2295540.4/31

Out: 0.006+/-0.000 χ^2/NDF : 2123308.4/34

All: 0.006+/-0.000 χ^2/NDF : 4418848.8/66

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.549+/-0.000 χ^2/NDF : 48539480448.5/15

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.608+/-0.000 χ^2/NDF : 41104481573.4/14

Left: 2.579+/-0.000 χ^2/NDF : 90005784529.2/30

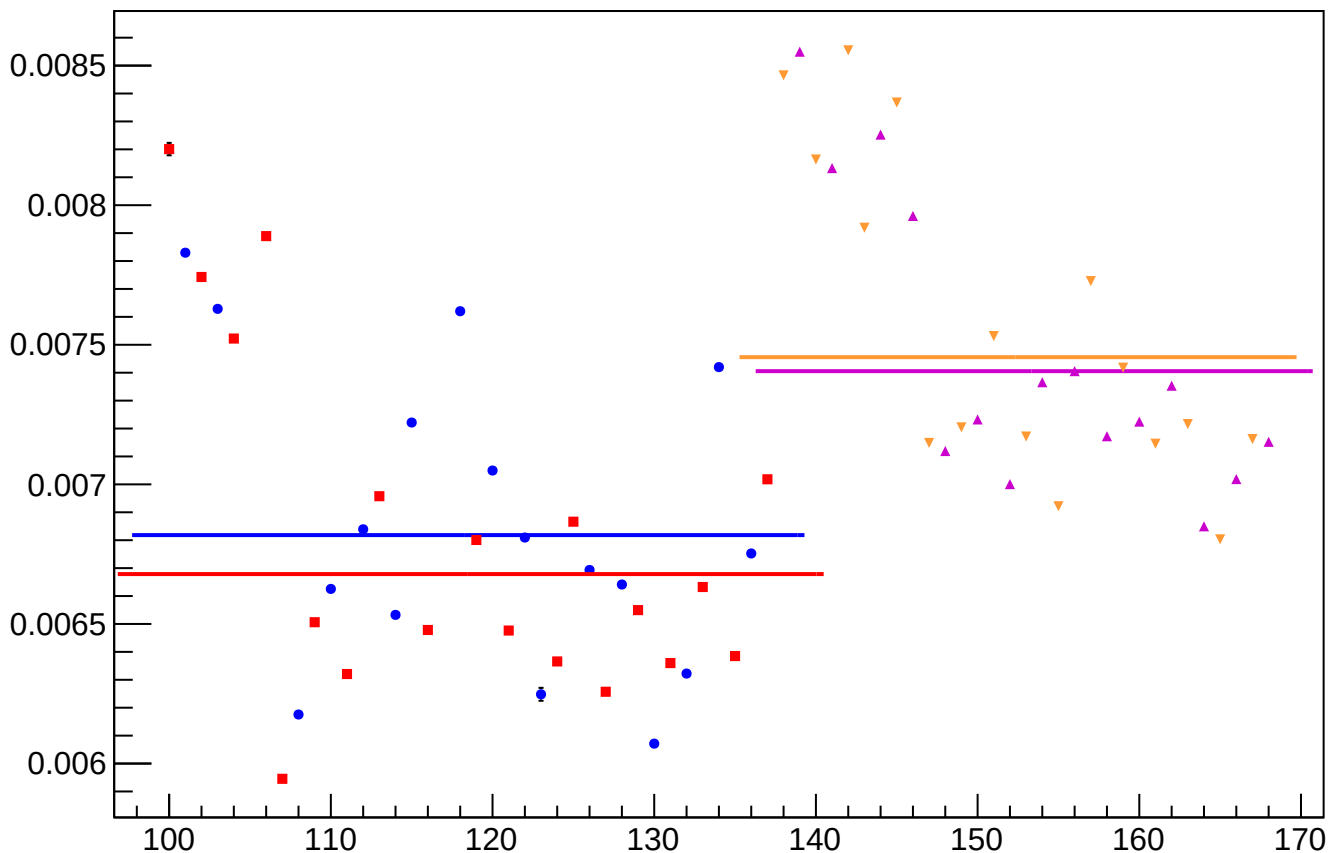
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.370+/-0.000 χ^2/NDF : 82122250658.5/31

Out: 2.288+/-0.000 χ^2/NDF : 101710559883.5/34

All: 2.328+/-0.000 χ^2/NDF : 184979474992.3

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.007+/-0.000 χ^2/NDF :100800.2/15

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :85387.5/14

Left: 0.007+/-0.000 χ^2/NDF : 186696.8/30

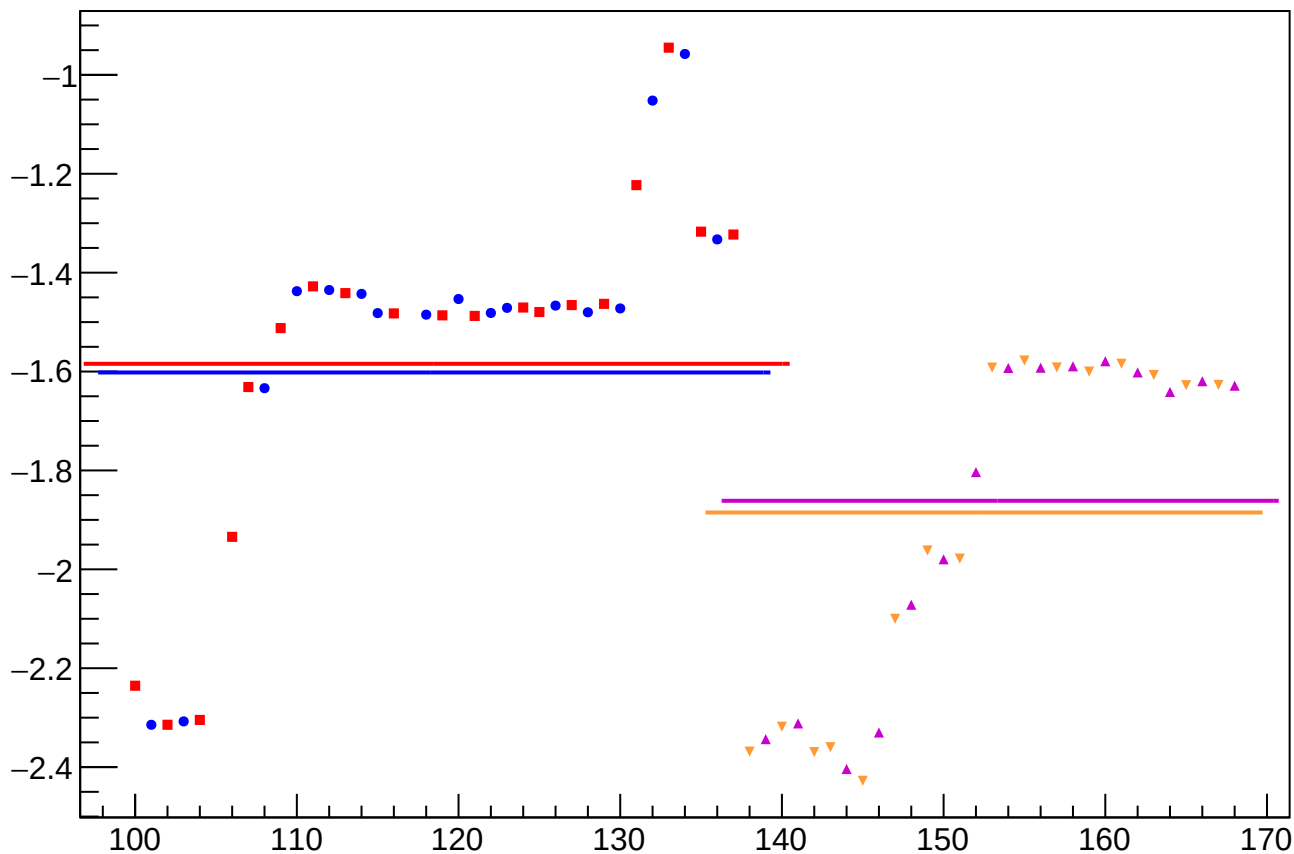
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :217587.4/31

Out: 0.007+/-0.000 χ^2/NDF :281199.4/34

All: 0.007+/-0.000 χ^2/NDF : 499579.2/66

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 $\chi^2/\text{NDF}: 140200656044.3/16$

Left Out: -1.885+/-0.000 $\chi^2/\text{NDF}: 154465628134.6/15$

Right Out: -1.584+/-0.000 $\chi^2/\text{NDF}: 143578606614.3/18$

Left In: -1.861+/-0.000 $\chi^2/\text{NDF}: 140891272511.7/14$

Left: -1.873+/-0.000 $\chi^2/\text{NDF}: 295744125017.1/30$

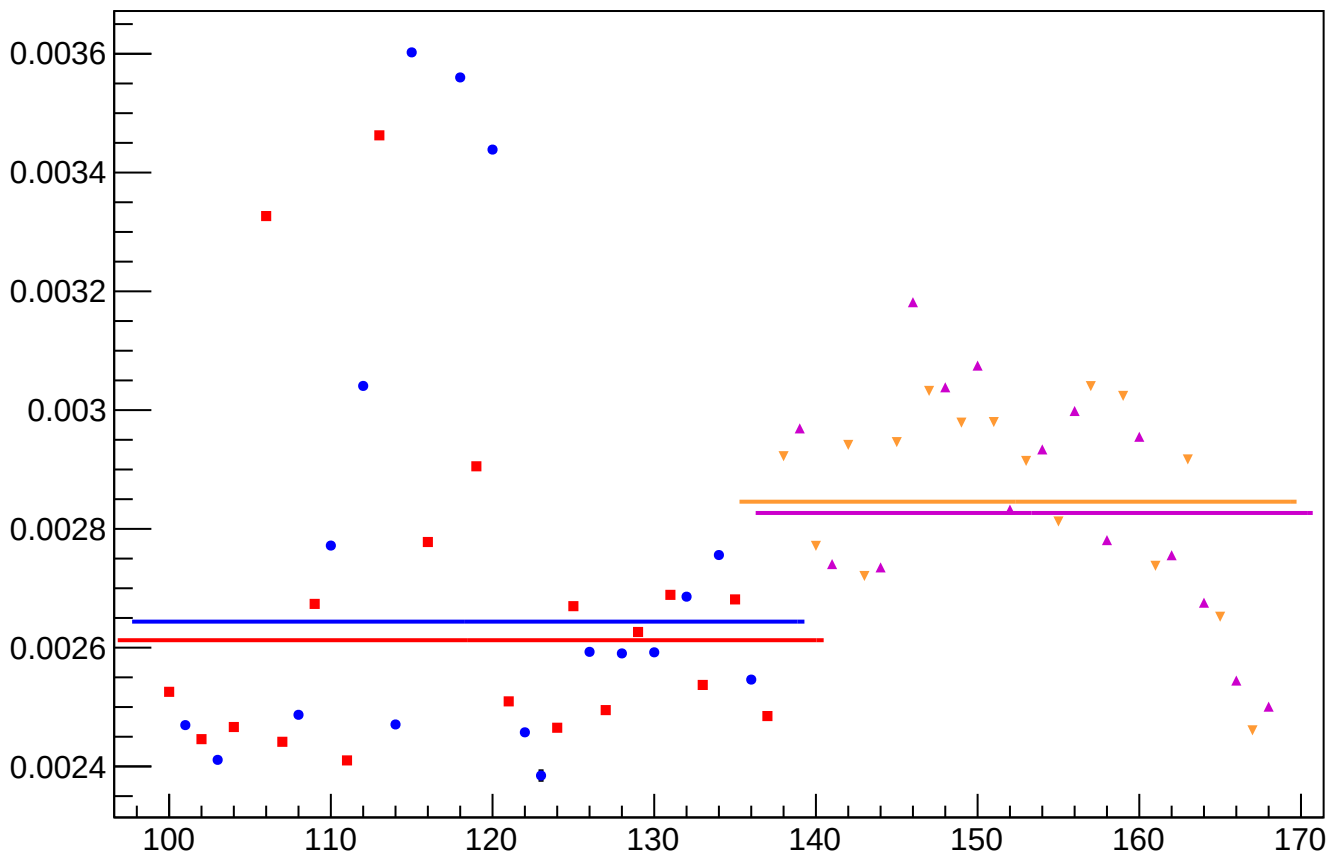
Right: -1.593+/-0.000 $\chi^2/\text{NDF}: 283924451158.7/35$

In: -1.759+/-0.000 $\chi^2/\text{NDF}: 317811125263.8/31$

Out: -1.760+/-0.000 $\chi^2/\text{NDF}: 349754120995.4/34$

All: -1.760+/-0.000 $\chi^2/\text{NDF}: 667565792172.5$

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 : 78196.3/15

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF : 98188.5/14

Left: 0.003+/-0.000 χ^2/NDF : 176883.1/30

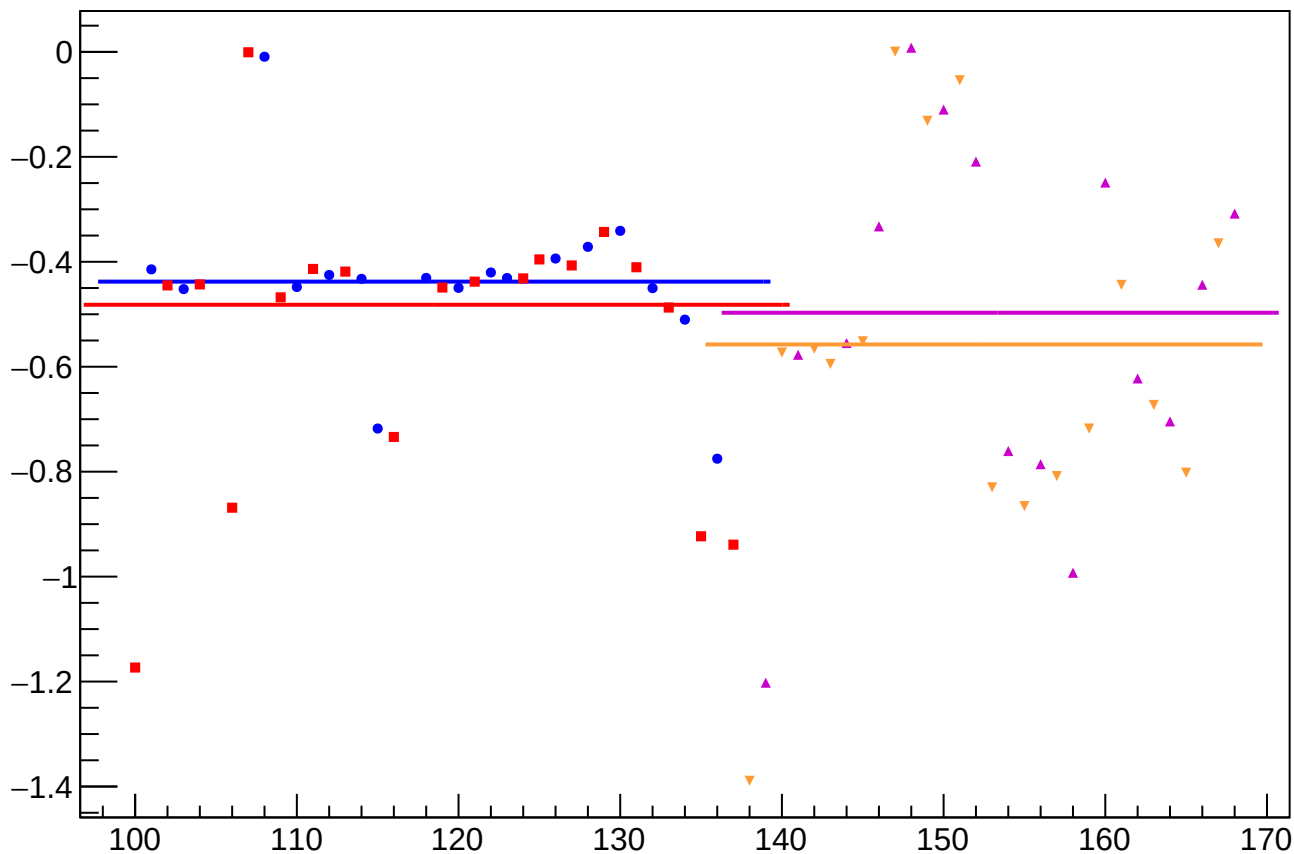
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF : 286089.0/31

Out: 0.003+/-0.000 χ^2/NDF : 245696.6/34

All: 0.003+/-0.000 χ^2/NDF : 531869.6/66

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.558+/-0.000 χ^2/NDF : 8020003280.0/15

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.497+/-0.000 χ^2/NDF : 7328762342.9/14

Left: -0.527+/-0.000 χ^2/NDF : 15479054541.0/30

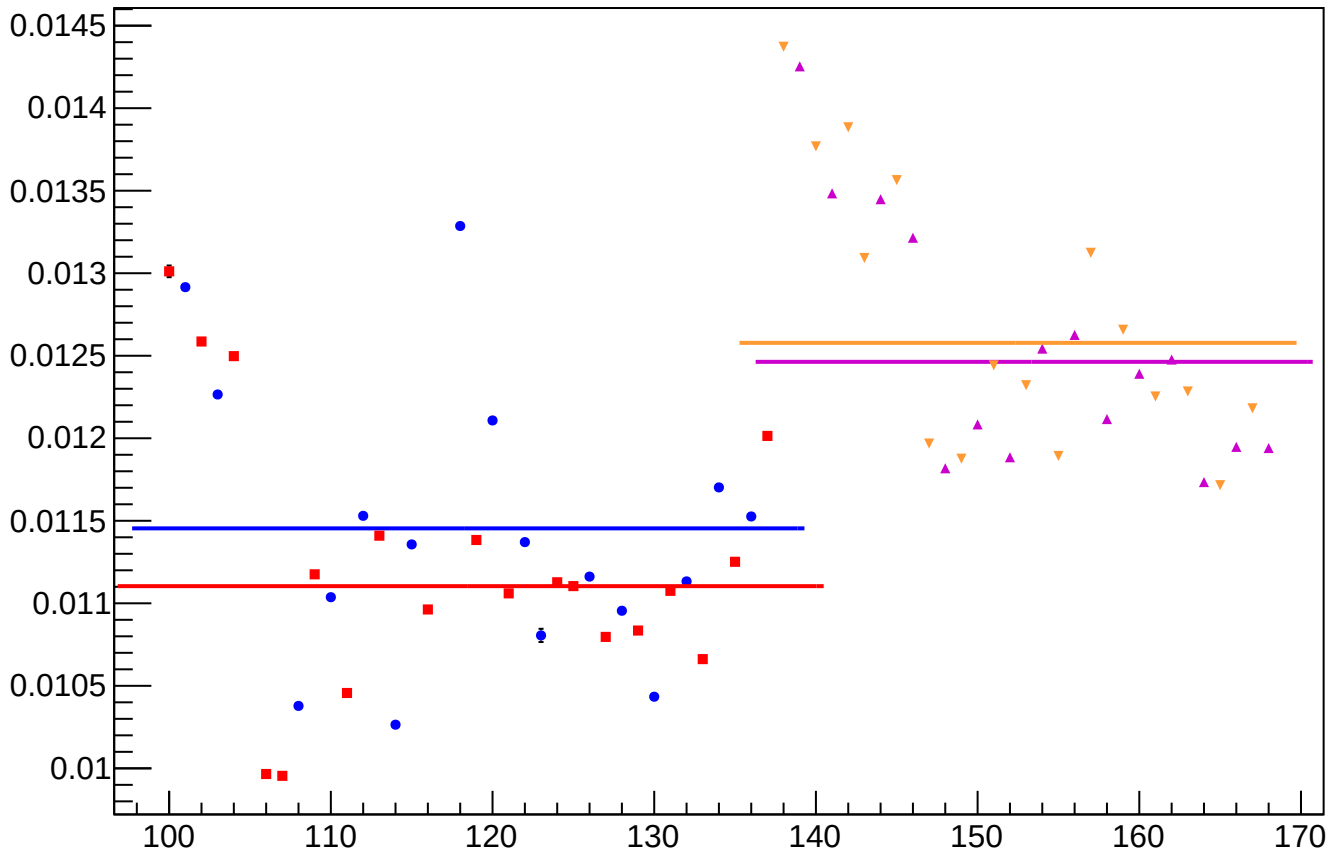
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.473+/-0.000 χ^2/NDF : 8893949833.5/31

Out: -0.524+/-0.000 χ^2/NDF : 10894373663.8/34

All: -0.499+/-0.000 χ^2/NDF : 19951225978.1/74

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.013+/-0.000 χ^2/NDF : 75962.0/15

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF : 64389.5/14

Left: 0.013+/-0.000 χ^2/NDF : 141295.7/30

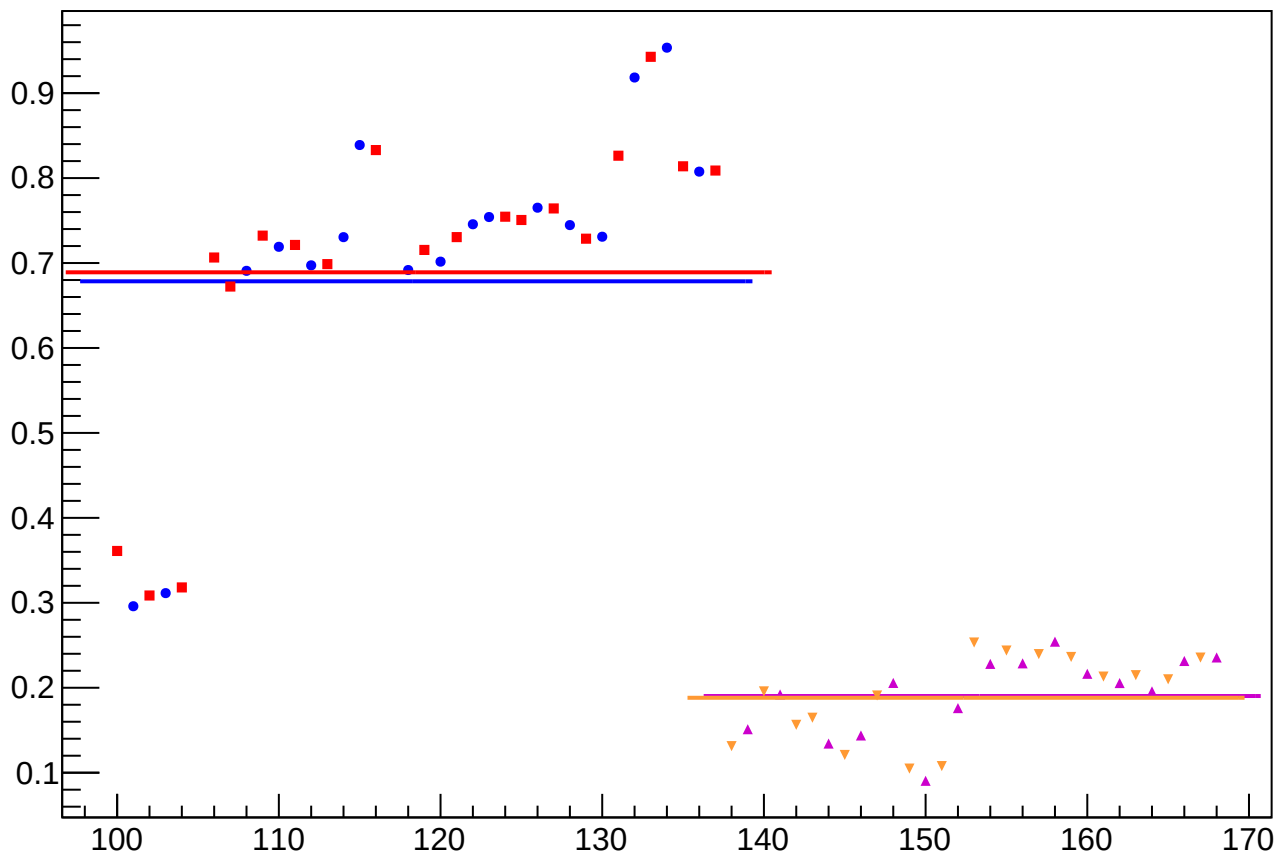
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 188534.6/31

Out: 0.012+/-0.000 χ^2/NDF : 268595.2/34

All: 0.012+/-0.000 χ^2/NDF : 459040.0/66

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38506442638.3/16

Left Out: 0.188 $\pm$ 0.000 χ^2 /NDF: 5895175572.3/15

Right Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 35358596931.1/18

Left In: 0.190 $\pm$ 0.000 χ^2 /NDF: 4881323607.1/14

Left: 0.189 $\pm$ 0.000 χ^2 /NDF: 10781629079.0/30

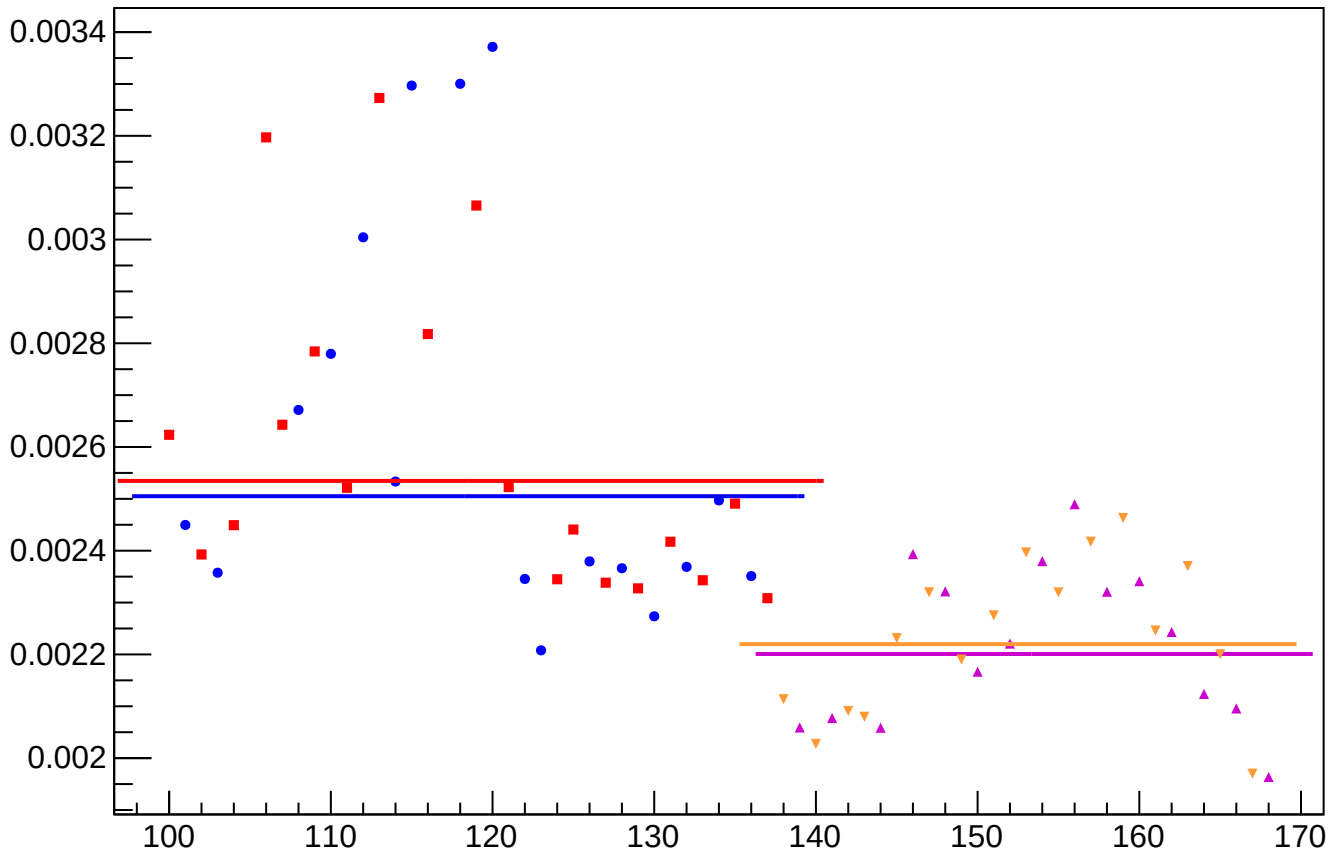
Right: 0.684 $\pm$ 0.000 χ^2 /NDF: 73922739006.0/35

In: 0.336 $\pm$ 0.000 χ^2 /NDF: 212990563696.9/31

Out: 0.341 $\pm$ 0.000 χ^2 /NDF: 223032162011.0/34

All: 0.339 $\pm$ 0.000 χ^2 /NDF: 436062790939.4

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 :100279.5/15

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :105185.8/14

Left: 0.002+/-0.000 χ^2/NDF : 206322.3/30

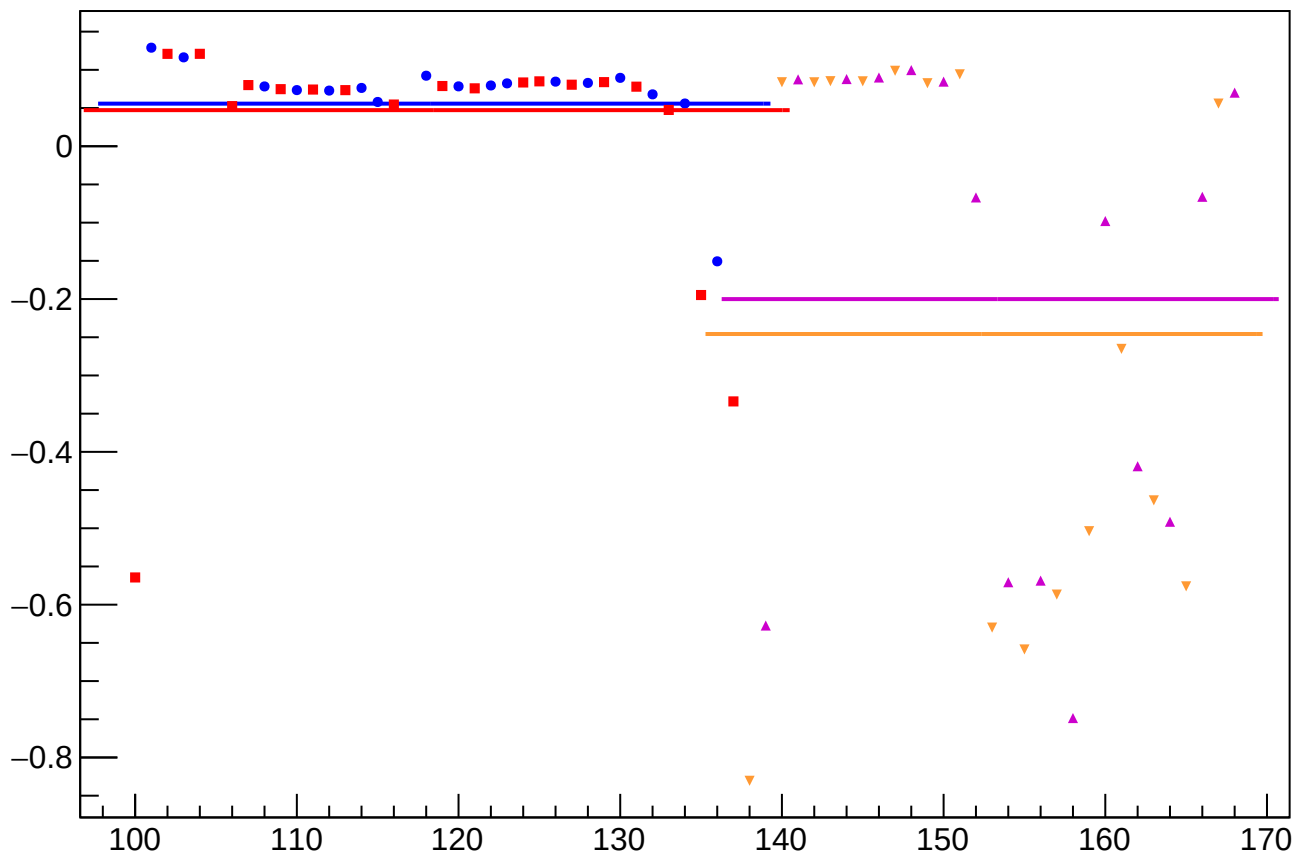
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :412458.1/31

Out: 0.002+/-0.000 χ^2/NDF :375478.7/34

All: 0.002+/-0.000 χ^2/NDF : 789916.6/66

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000 χ^2 /NDF: 423003688.1/16

Left Out: -0.246 $\pm$ 0.000 χ^2 /NDF: 9808958199.2/15

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 819588537.2/18

Left In: -0.200 $\pm$ 0.000 χ^2 /NDF: 8333955406.7/14

Left: -0.223 $\pm$ 0.000 χ^2 /NDF: 18233904588.7/30

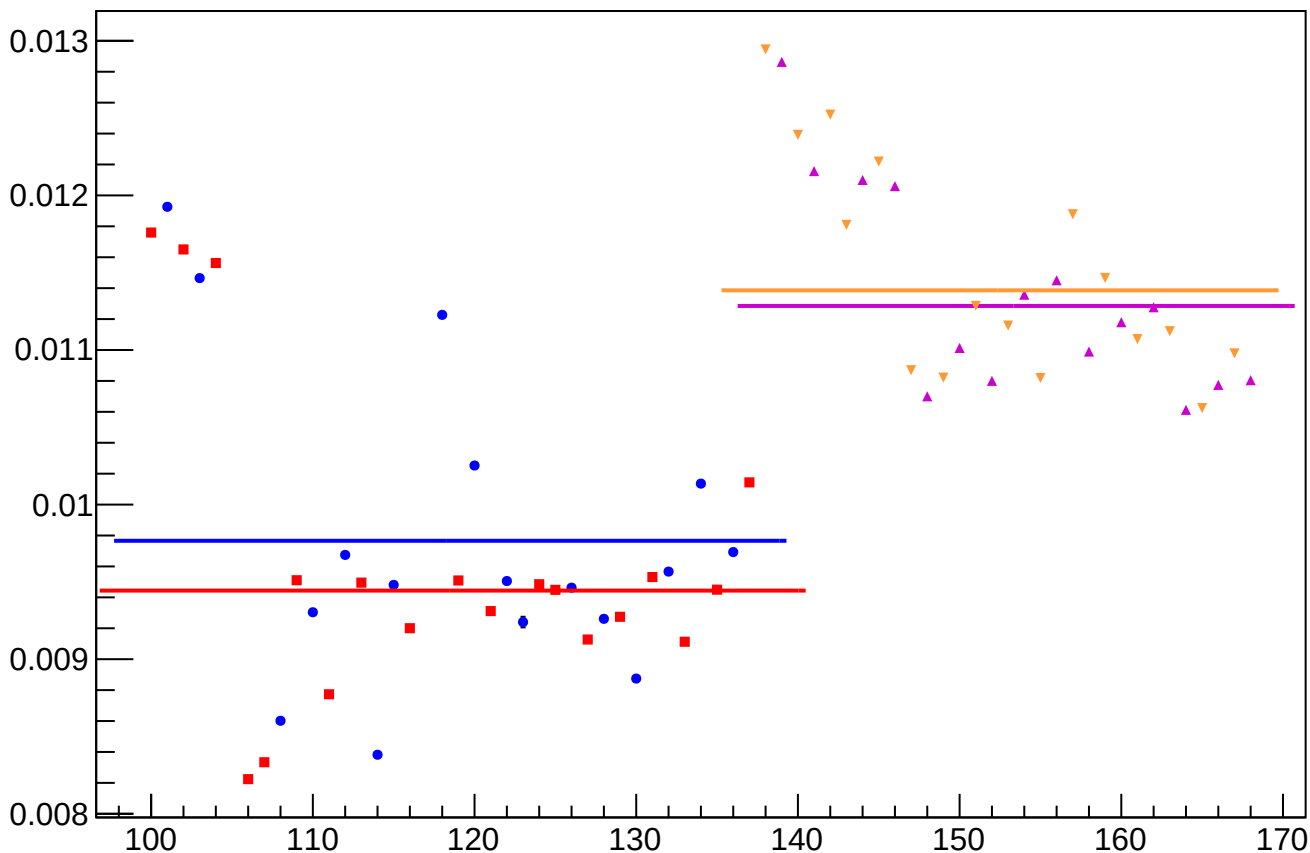
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 1245197626.4/35

In: -0.089 $\pm$ 0.000 χ^2 /NDF: 11247552466.1/31

Out: -0.108 $\pm$ 0.000 χ^2 /NDF: 14145236913.7/34

All: -0.098 $\pm$ 0.000 χ^2 /NDF: 25422504127.3/69

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 116638.3/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 69189.2/15

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 110693.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 62013.5/14

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 132091.3/30

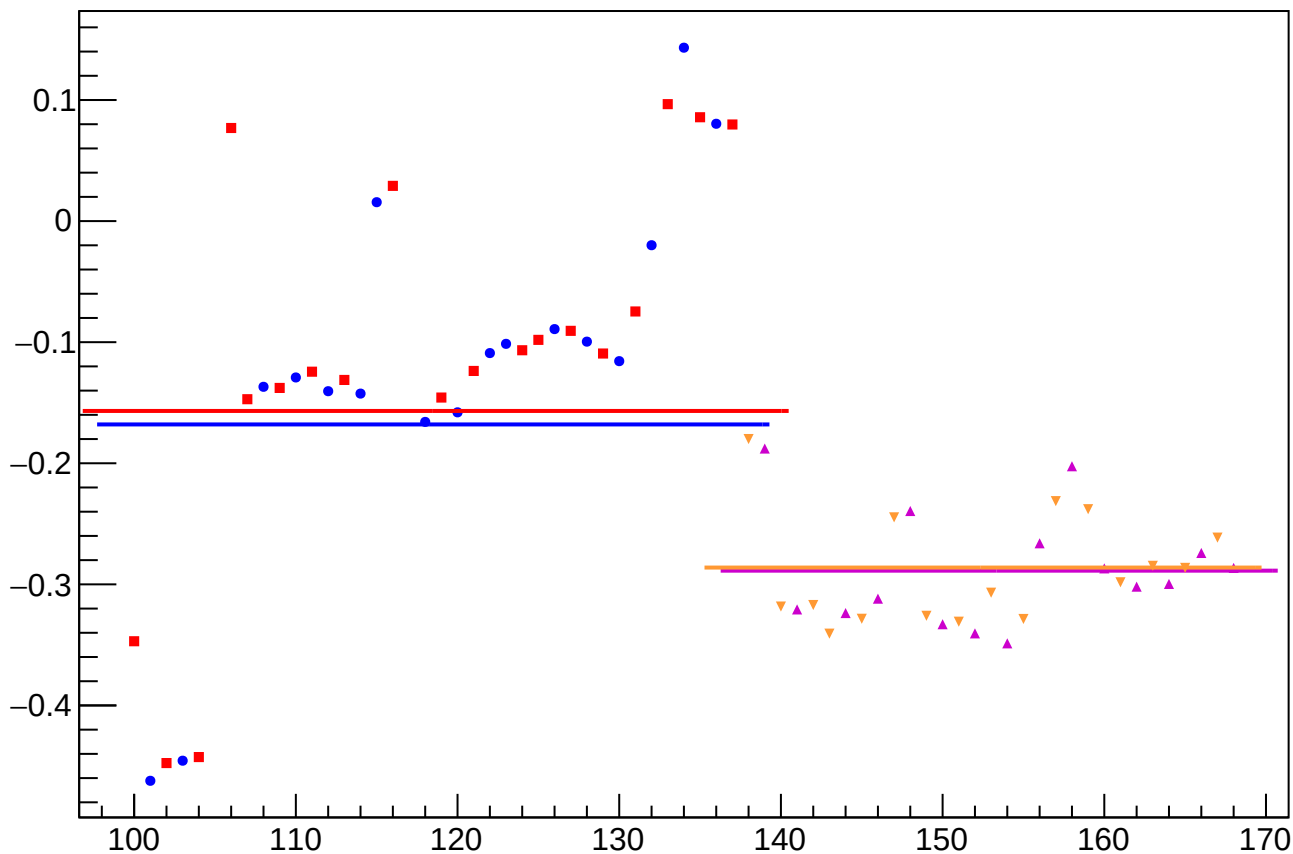
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 234814.0/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 354288.1/31

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 488904.7/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 846824.6/66

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.286+/-0.000 χ^2/NDF : 2766273185.2/15

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.289+/-0.000 χ^2/NDF : 3080990457.2/14

Left: -0.287+/-0.000 χ^2/NDF : 5851931166.0/30

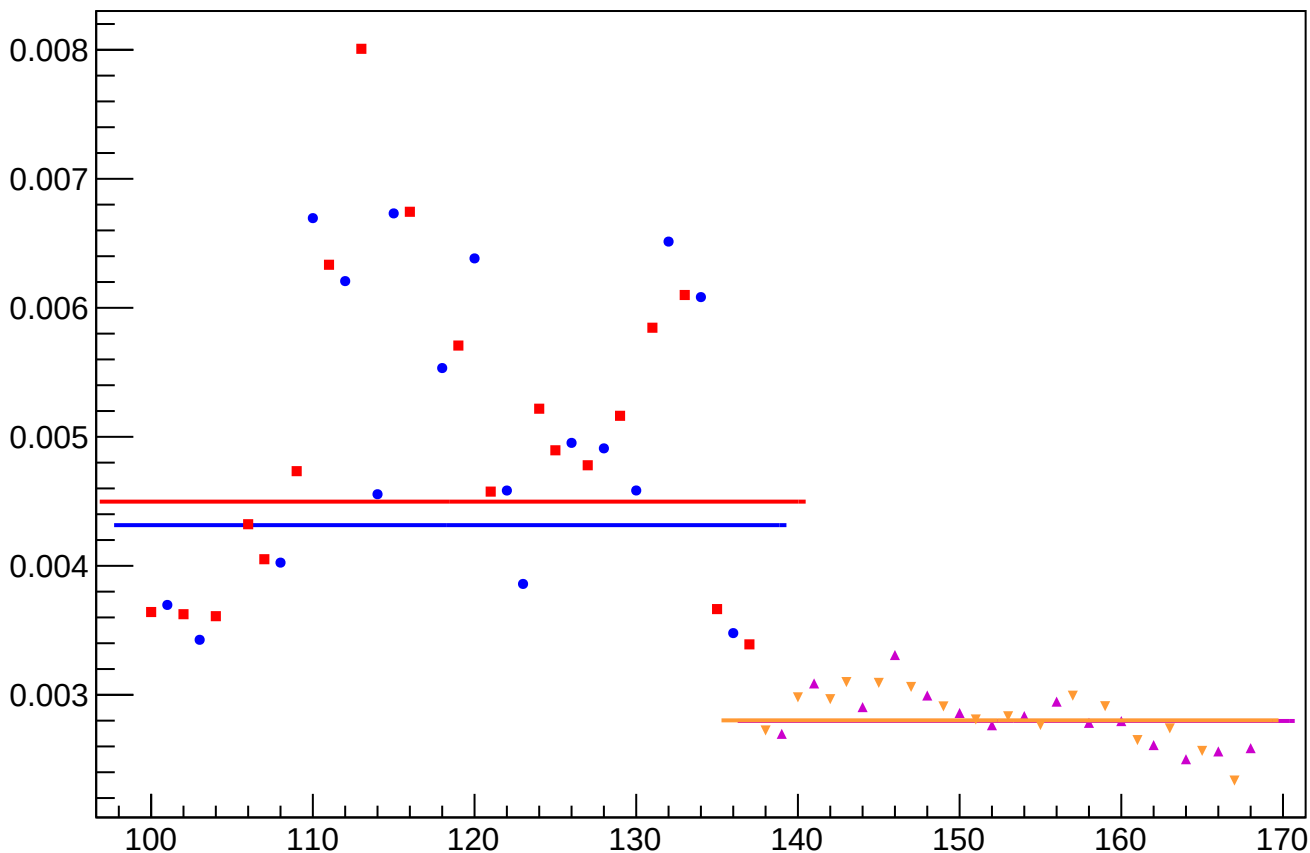
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.267+/-0.000 χ^2/NDF : 19141344072.1/31

Out: -0.263+/-0.000 χ^2/NDF : 18029987151.4/34

All: -0.265+/-0.000 χ^2/NDF : 37182646546.0/69

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :131613.5/15

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :106957.4/14

Left: 0.003+/-0.000 χ^2/NDF : 238601.2/30

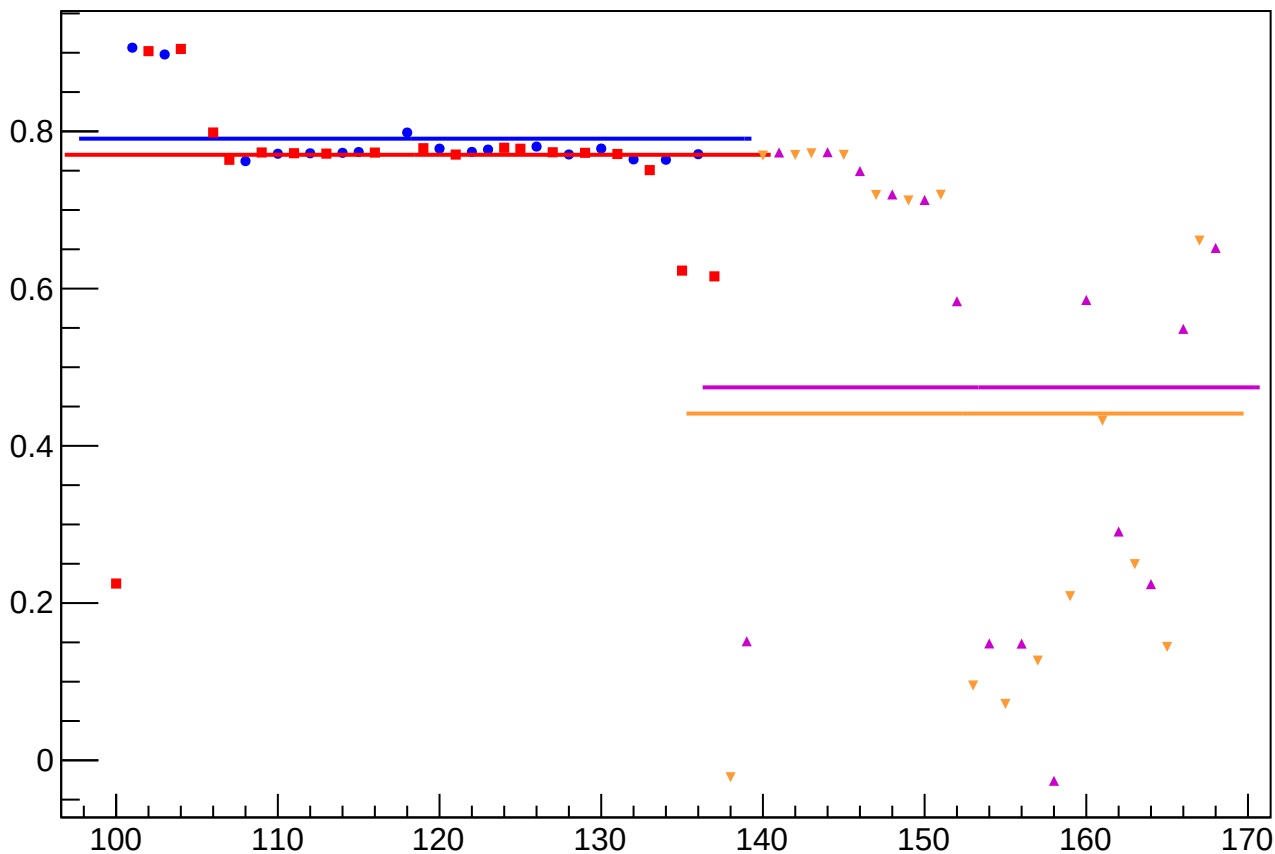
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :1904854.7/31

Out: 0.003+/-0.000 χ^2/NDF :2237542.9/34

All: 0.003+/-0.000 χ^2/NDF : 4143976.7/66

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.441 $\pm$ 0.000 χ^2 /NDF: 7992611471.8/15

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.474 $\pm$ 0.000 χ^2 /NDF: 6788070609.3/14

Left: 0.458 $\pm$ 0.000 χ^2 /NDF: 14831609453.4/30

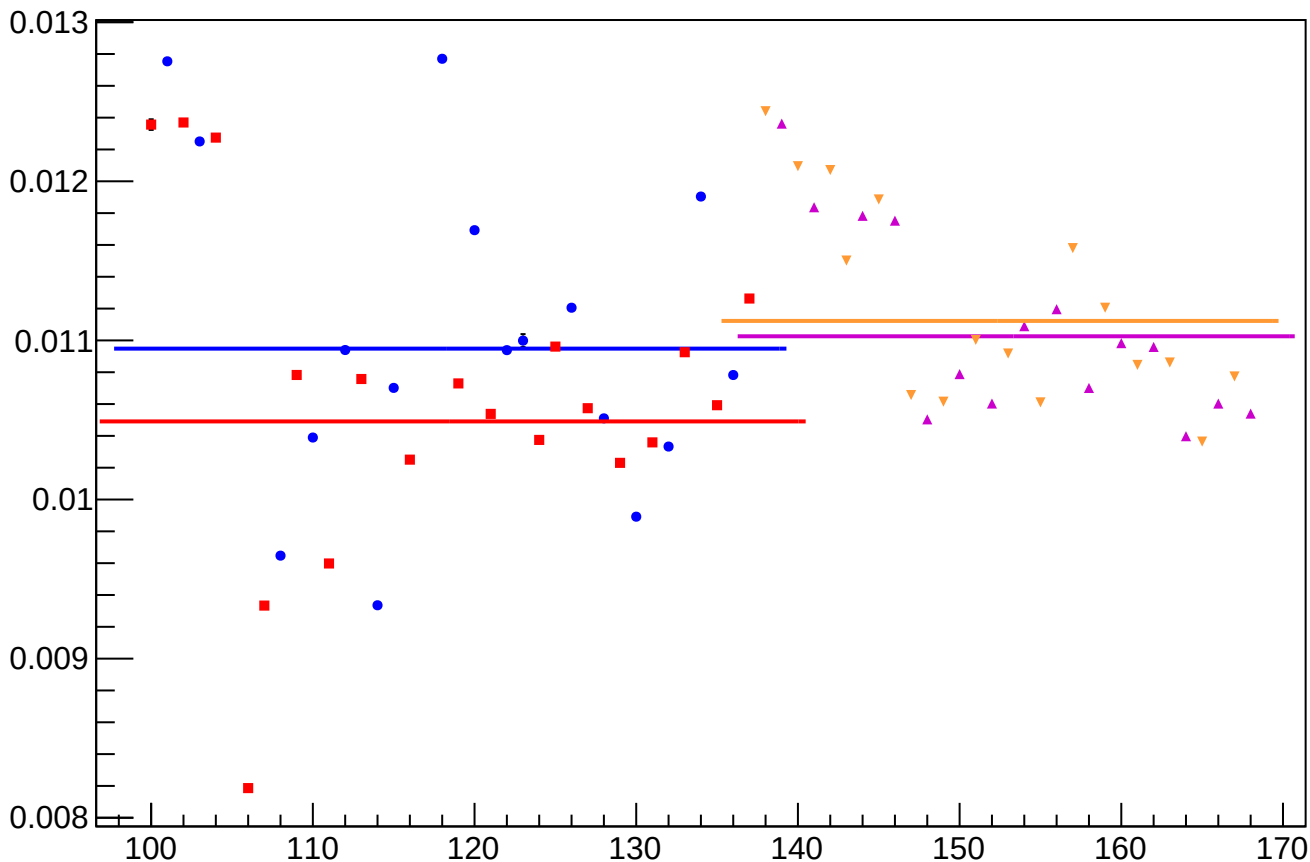
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.591 $\pm$ 0.000 χ^2 /NDF: 10290680002.2/31

Out: 0.575 $\pm$ 0.000 χ^2 /NDF: 12403705096.6/34

All: 0.583 $\pm$ 0.000 χ^2 /NDF: 22714573226.8/66

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 59807.3/15

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 53855.1/14

Left: 0.011+/-0.000 χ^2/NDF : 114519.4/30

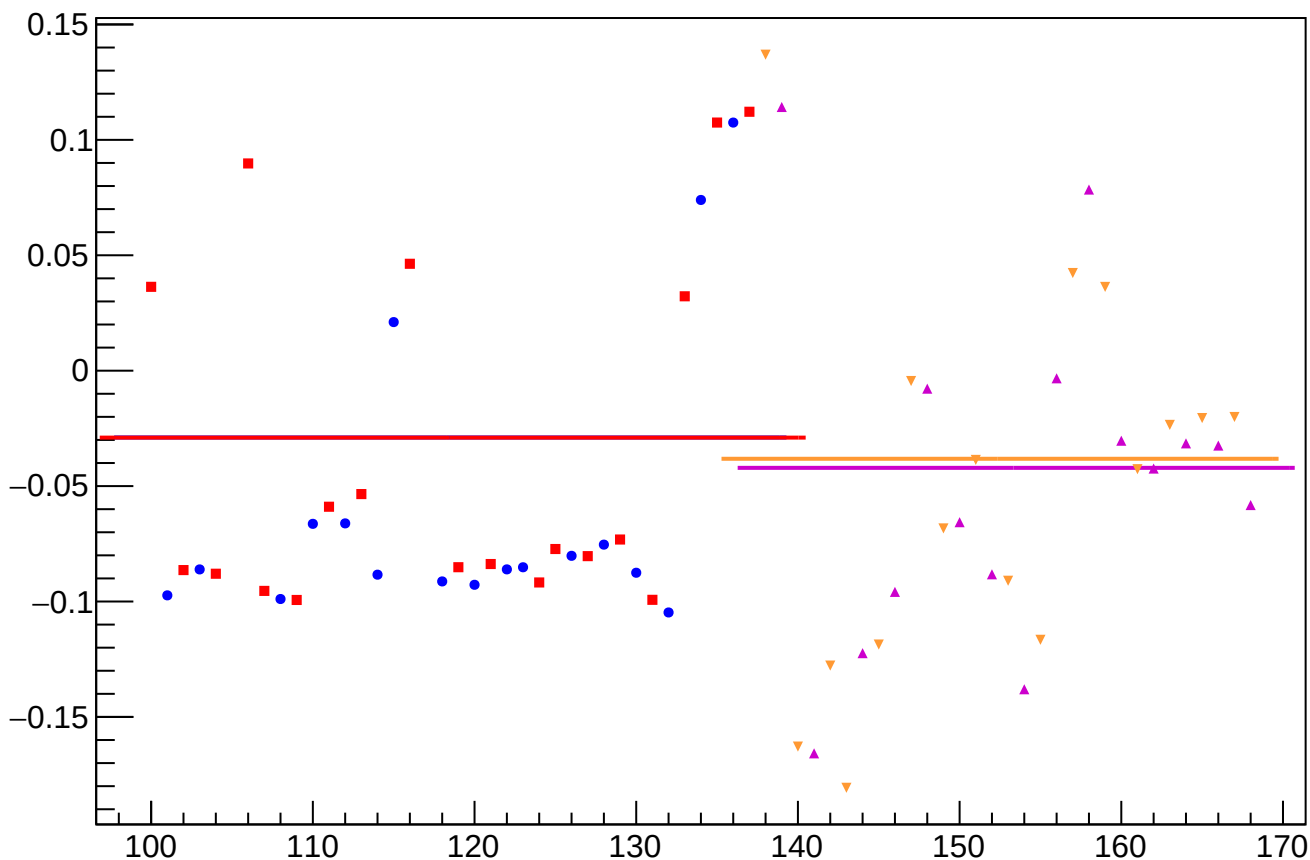
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 152814.9/31

Out: 0.011+/-0.000 χ^2/NDF : 208950.6/34

All: 0.011+/-0.000 χ^2/NDF : 364345.4/66

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.040+/-0.000

χ^2/NDF : 12594669736.2/30

Left Out: -0.038+/-0.000

χ^2/NDF : 6720996060.9/15

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.039+/-0.000

χ^2/NDF : 8352253267.8/31

Out: -0.036+/-0.000

χ^2/NDF : 8854113575.7/34

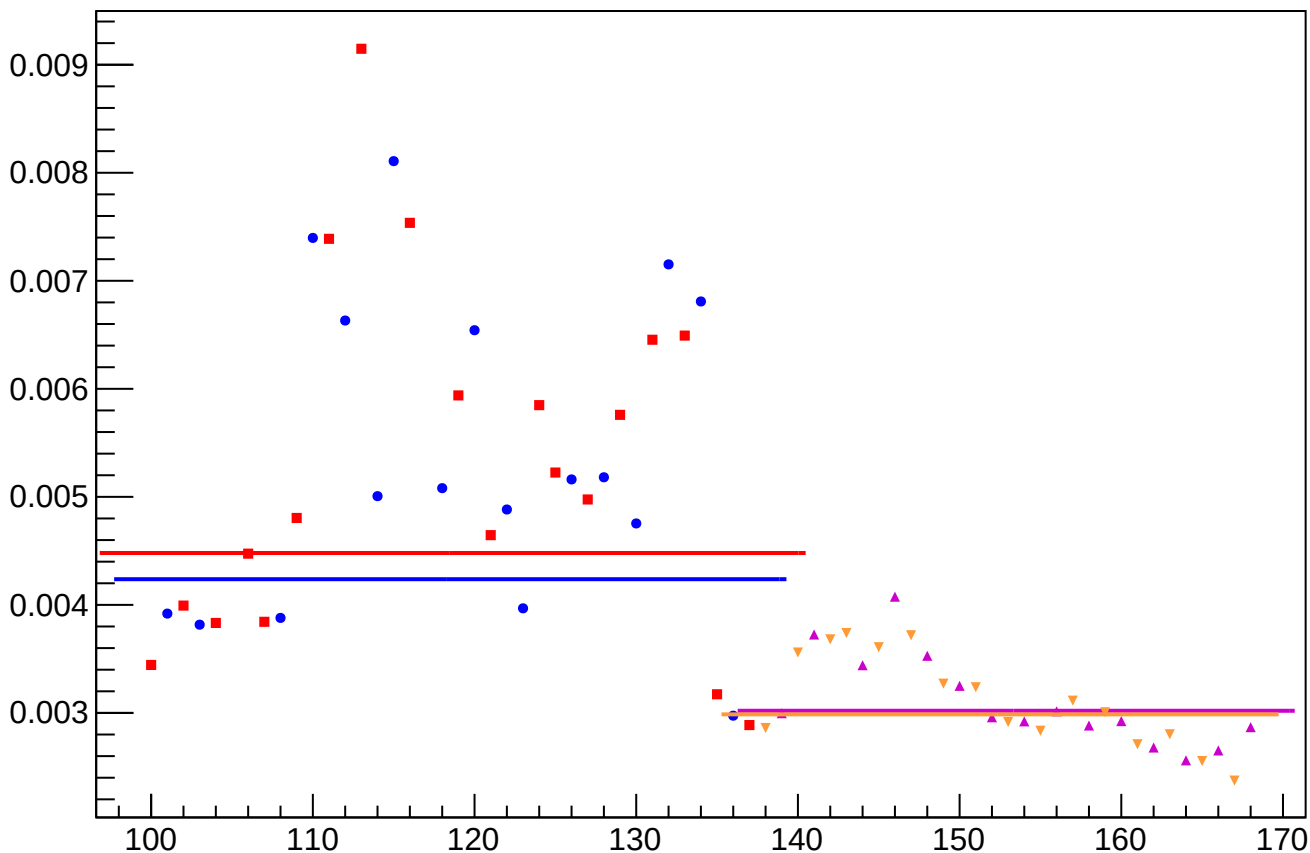
Left In: -0.042+/-0.000

χ^2/NDF : 5864384544.6/14

All: -0.038+/-0.000

χ^2/NDF : 17213101499.7/71

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF : 394888.8/15

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 984186.1/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF : 298824.4/14

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 695049.4/30

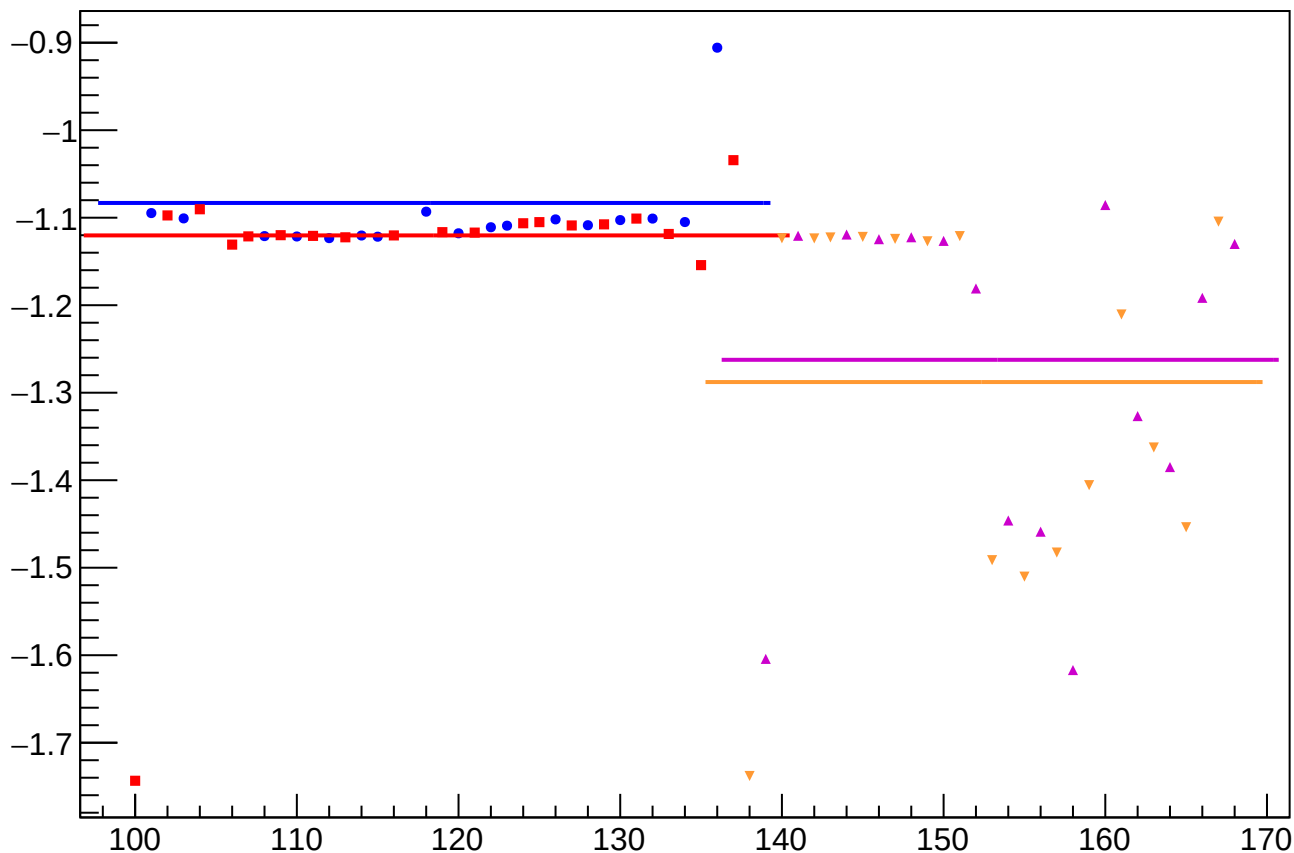
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1883305.7/35

In: 0.003 $\pm$ 0.000 χ^2/NDF : 1898756.0/31

Out: 0.003 $\pm$ 0.000 χ^2/NDF : 2428711.2/34

All: 0.003 $\pm$ 0.000 χ^2/NDF : 4327491.6/66

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.288+/-0.000 χ^2/NDF : 4044599395.3/15

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.262+/-0.000 χ^2/NDF : 3646711032.4/14

Left: -1.275+/-0.000 χ^2/NDF : 7728088667.1/30

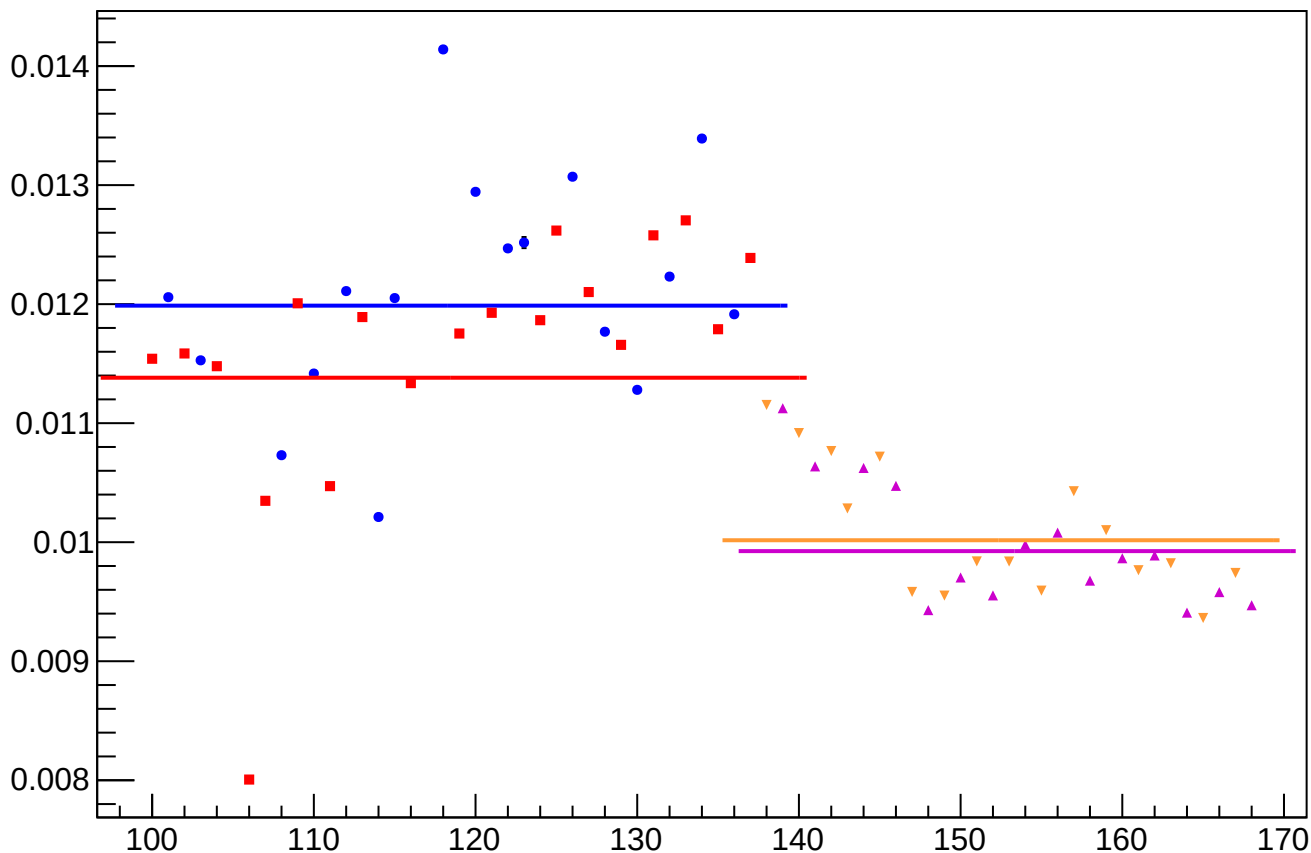
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.212+/-0.000 χ^2/NDF : 4883280063.3/31

Out: -1.235+/-0.000 χ^2/NDF : 5278497360.4/34

All: -1.224+/-0.000 χ^2/NDF : 10203986072.1/170

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:57078.7/15

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:51679.3/14

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 109707.0/30

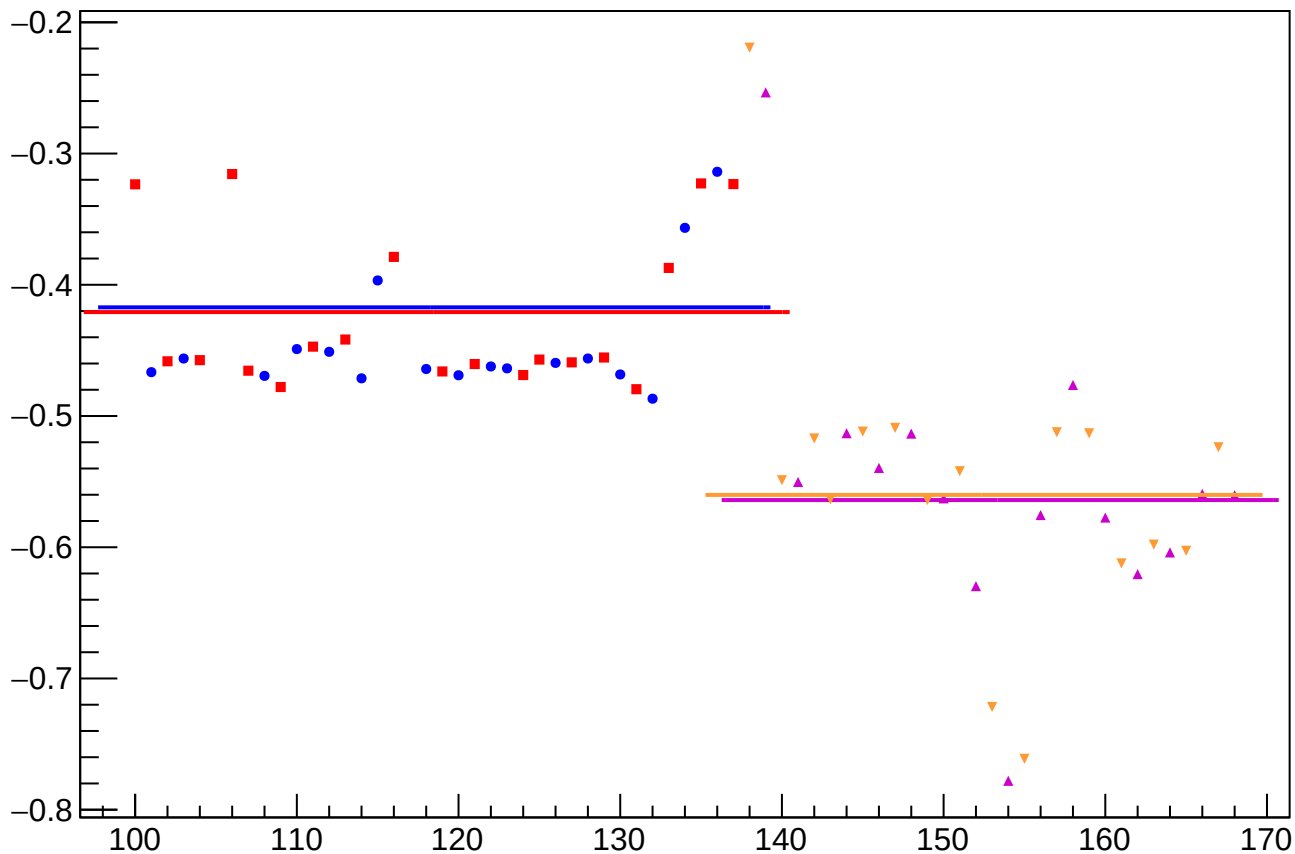
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:385683.2/31

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:346153.7/34

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 732364.2/66

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.560+/-0.000 χ^2/NDF : 13235775033.6/15

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.564+/-0.000 χ^2/NDF : 10408138866.9/14

Left: -0.562+/-0.000 χ^2/NDF : 23651479089.9/30

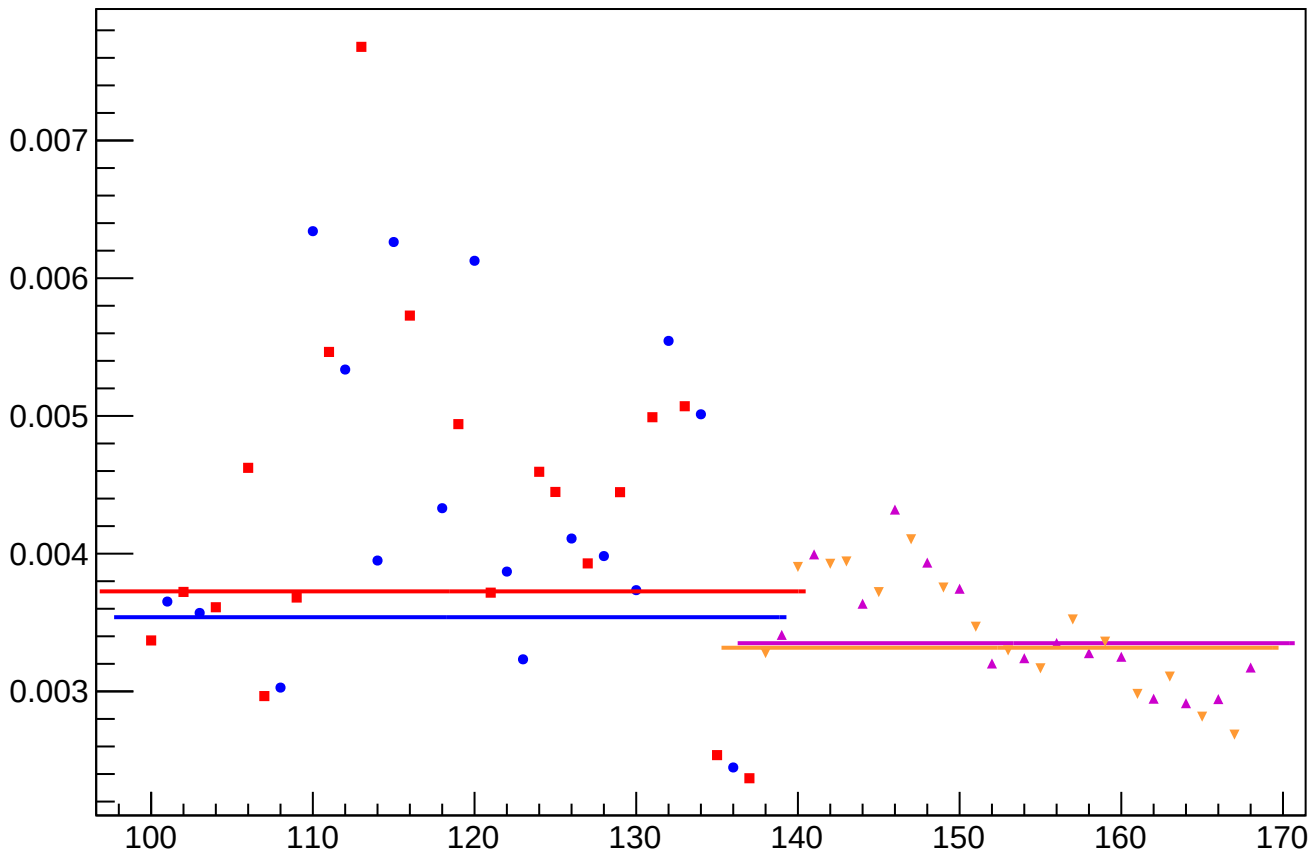
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.518+/-0.000 χ^2/NDF : 18894718157.9/31

Out: -0.519+/-0.000 χ^2/NDF : 20626074541.9/34

All: -0.518+/-0.000 χ^2/NDF : 39520846920.6/68

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 : 327124.4/15

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 251701.5/14

Left: 0.003+/-0.000 χ^2/NDF : 579889.6/30

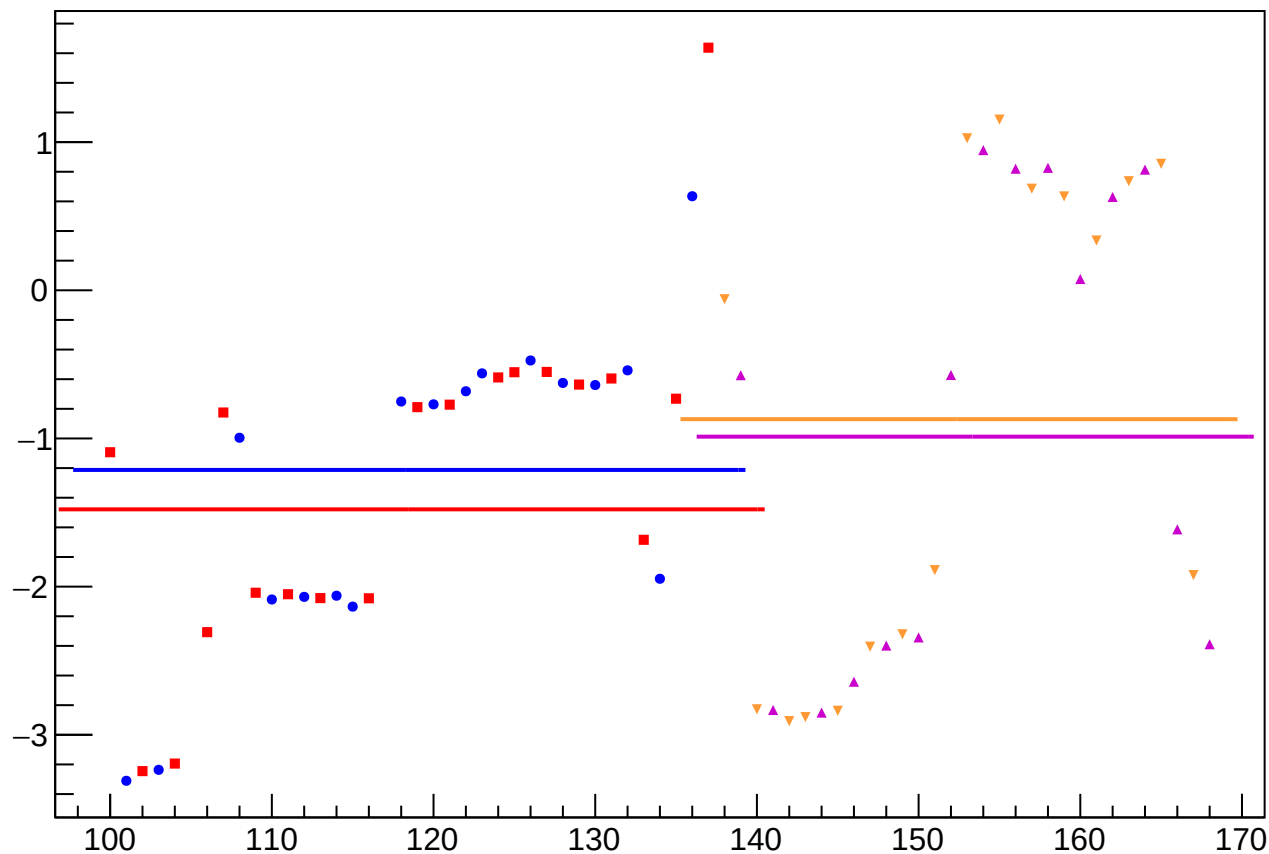
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1109159.1/31

Out: 0.003+/-0.000 χ^2/NDF : 1324743.3/34

All: 0.003+/-0.000 χ^2/NDF : 2435189.2/66

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 ± 0.000 $\chi^2/\text{NDF}: 1992853443.9/16$

Left Out: -0.870 ± 0.000 $\chi^2/\text{NDF}: 5279145426.7/15$

Right Out: -1.478 ± 0.000 $\chi^2/\text{NDF}: 1578264383.8/18$

Left In: -0.988 ± 0.000 $\chi^2/\text{NDF}: 4561145602.8/14$

Left: -0.928 ± 0.000 $\chi^2/\text{NDF}: 9854330904.8/30$

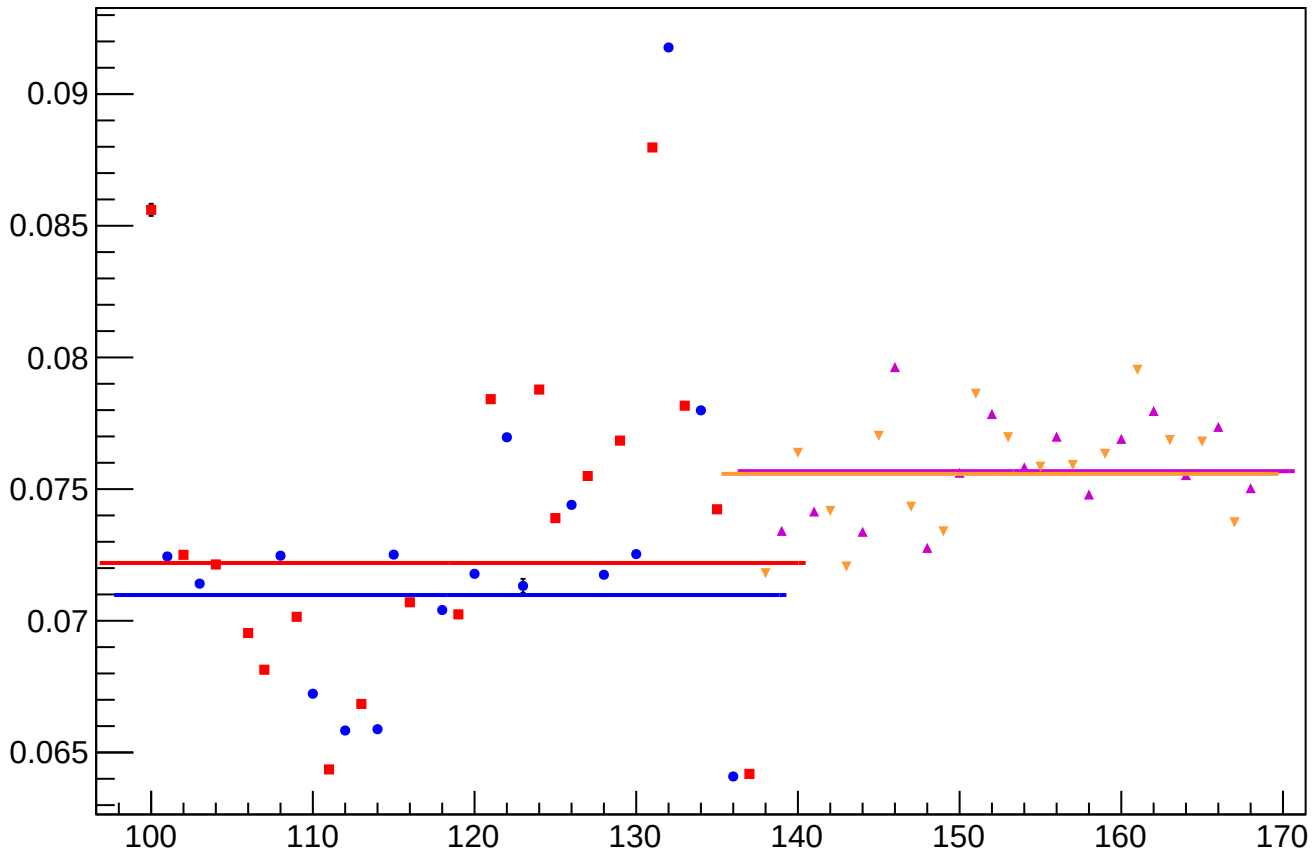
Right: -1.347 ± 0.000 $\chi^2/\text{NDF}: 3617796481.7/35$

In: -1.077 ± 0.000 $\chi^2/\text{NDF}: 6593799834.7/31$

Out: -1.110 ± 0.000 $\chi^2/\text{NDF}: 7156420337.2/34$

All: -1.094 ± 0.000 $\chi^2/\text{NDF}: 13752118036.8/70$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.076+/-0.000 χ^2/NDF : 18555.8/15

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.076+/-0.000 χ^2/NDF : 14079.5/14

Left: 0.076+/-0.000 χ^2/NDF : 32657.0/30

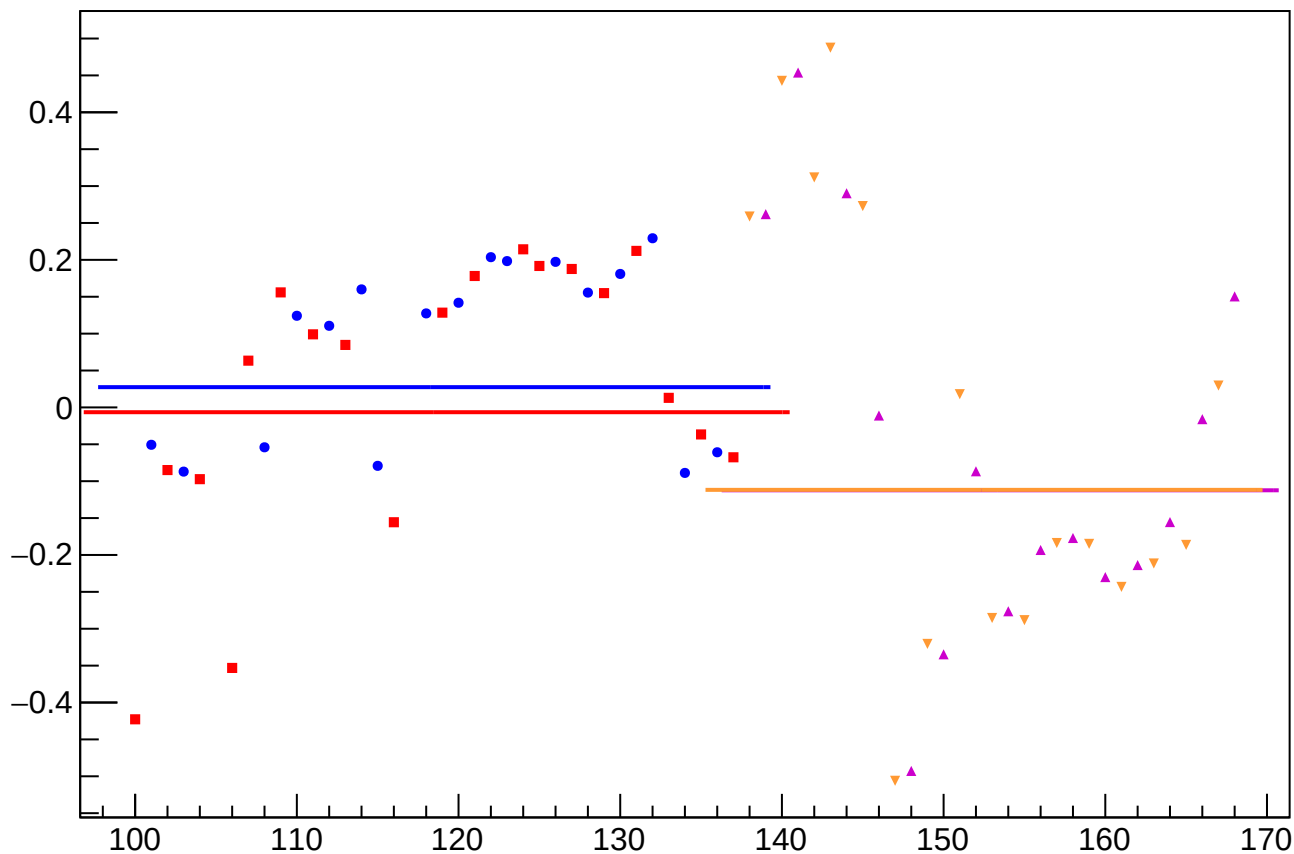
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 126580.0/31

Out: 0.074+/-0.000 χ^2/NDF : 110274.0/34

All: 0.074+/-0.000 χ^2/NDF : 237438.9/66

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ²/NDF: 562337631.4/16

Left: -0.112+/-0.000

χ²/NDF: 25793240742.6/30

Left Out: -0.112+/-0.000

χ²/NDF: 14286190514.4/15

Right: 0.010+/-0.000

χ²/NDF: 1787030042.0/35

Right Out: -0.007+/-0.000

χ²/NDF: 1199278894.0/18

In: -0.091+/-0.000

χ²/NDF: 12797942414.2/31

Out: -0.096+/-0.000

χ²/NDF: 15904496971.4/34

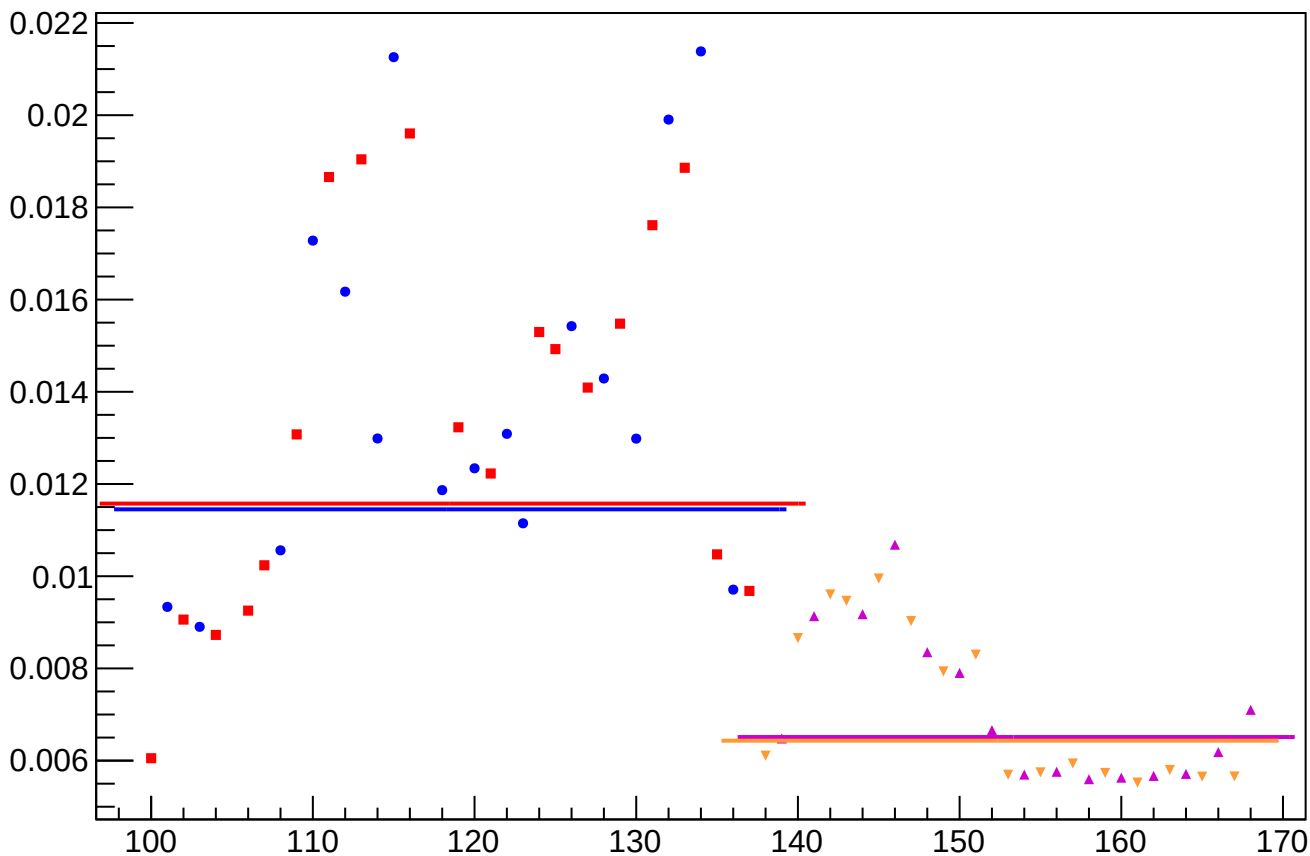
Left In: -0.112+/-0.000

χ²/NDF: 11507006433.6/14

All: -0.094+/-0.000

χ²/NDF: 28706113112.4/34

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 : 905287.3/15

Right Out: 0.012 $\pm$ 0.000 χ^2/NDF : 997161.1/18

Left In: 0.007 $\pm$ 0.000 χ^2/NDF : 791613.7/14

Left: 0.006 $\pm$ 0.000 χ^2/NDF : 1698490.2/30

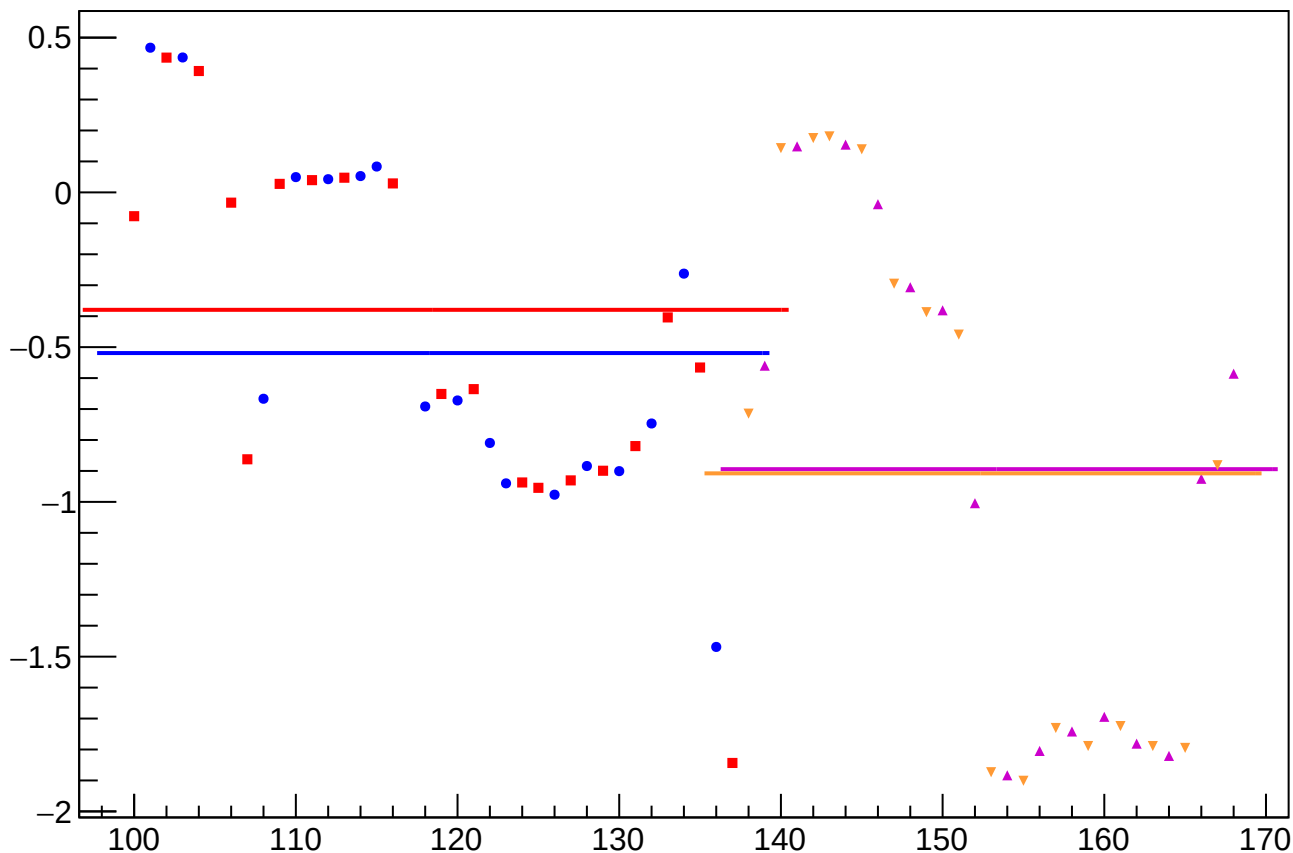
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 1677468.5/35

In: 0.007 $\pm$ 0.000 χ^2/NDF : 3289999.8/31

Out: 0.007 $\pm$ 0.000 χ^2/NDF : 3902934.3/34

All: 0.007 $\pm$ 0.000 χ^2/NDF : 7194289.6/66

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 $\pm$ 0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.908 $\pm$ 0.000 χ^2/NDF : 1010877127.6/15

Right Out: -0.379 $\pm$ 0.000 χ^2/NDF : 268621179.0/18

Left In: -0.894 $\pm$ 0.000 χ^2/NDF : 866291787.8/14

Left: -0.901 $\pm$ 0.000 χ^2/NDF : 1877306380.4/30

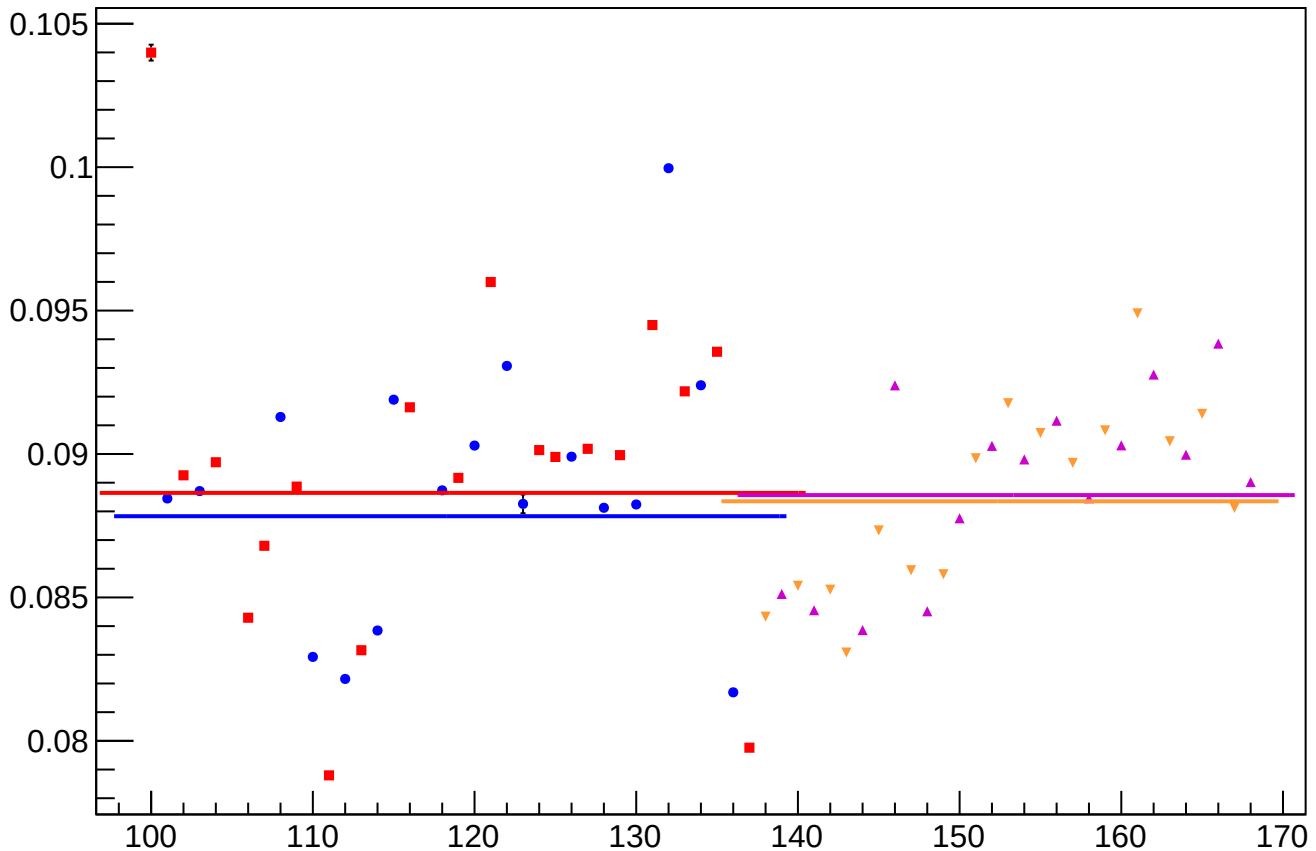
Right: -0.448 $\pm$ 0.000 χ^2/NDF : 616632603.2/35

In: -0.756 $\pm$ 0.000 χ^2/NDF : 1282538514.5/31

Out: -0.710 $\pm$ 0.000 χ^2/NDF : 1437365702.6/34

All: -0.733 $\pm$ 0.000 χ^2/NDF : 2722325799.7/6

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.088+/-0.000 χ^2/NDF : 29373.2/15

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.089+/-0.000 χ^2/NDF : 27553.7/14

Left: 0.088+/-0.000 χ^2/NDF : 56996.4/30

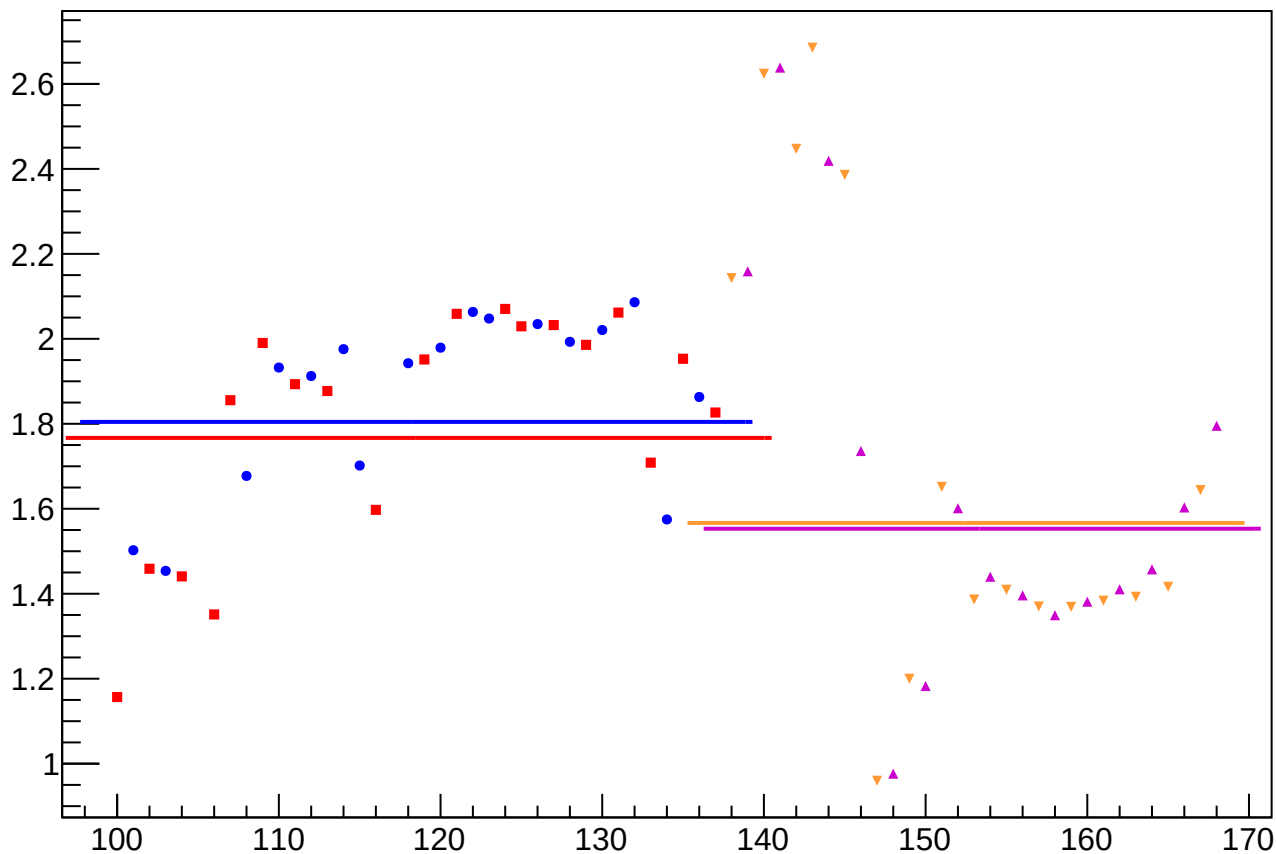
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 63100.3/31

Out: 0.088+/-0.000 χ^2/NDF : 69193.0/34

All: 0.088+/-0.000 χ^2/NDF : 132358.9/66

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.567 $\pm$ 0.000 χ^2 /NDF:23318840021.0/15

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.553 $\pm$ 0.000 χ^2 /NDF:18413797604.2/14

Left: 1.560 $\pm$ 0.000 χ^2 /NDF: 41745619855.1/30

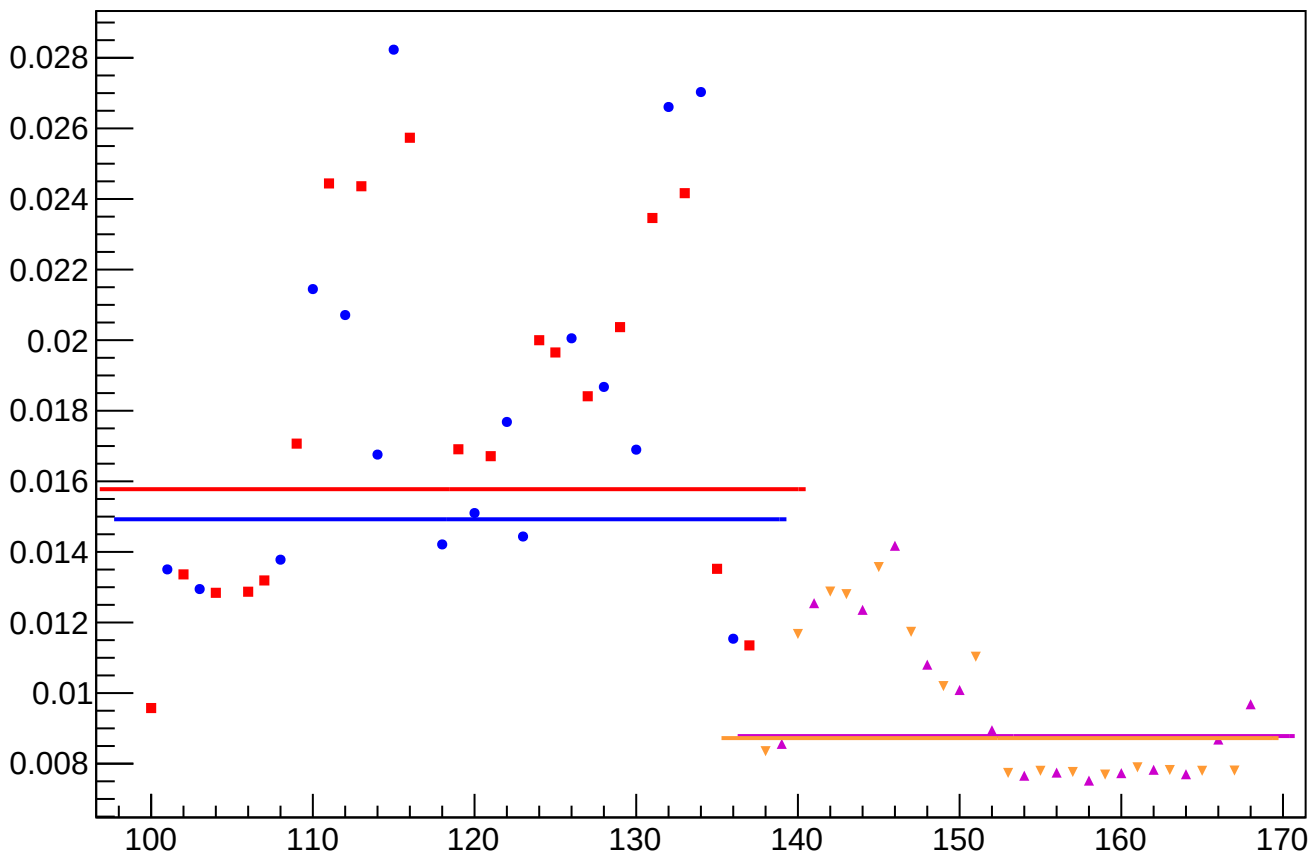
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.592 $\pm$ 0.000 χ^2 /NDF:20946599198.9/31

Out: 1.596 $\pm$ 0.000 χ^2 /NDF:25858536041.7/34

All: 1.594 $\pm$ 0.000 χ^2 /NDF: 46805933686.7/6

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 : 827989.9/15

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 738181.4/14

Left: 0.009+/-0.000 χ^2/NDF : 1566642.8/30

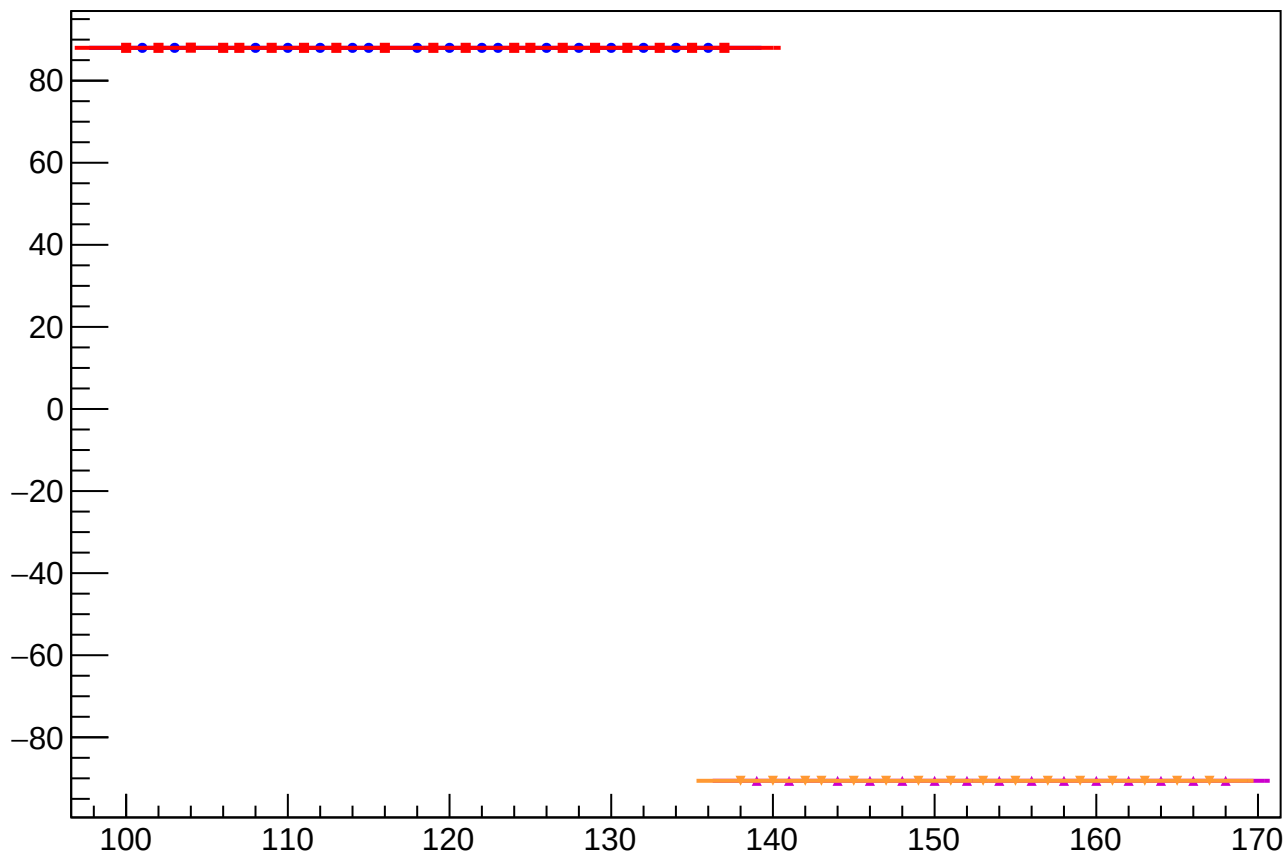
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3025035.8/31

Out: 0.010+/-0.000 χ^2/NDF : 3676617.0/34

All: 0.010+/-0.000 χ^2/NDF : 6701652.9/66

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: 5372837.0/15

Right Out: 88.004+/-0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2 /NDF: 5300337.5/14

Left: -90.599+/-0.000 χ^2 /NDF: 10758194.7/30

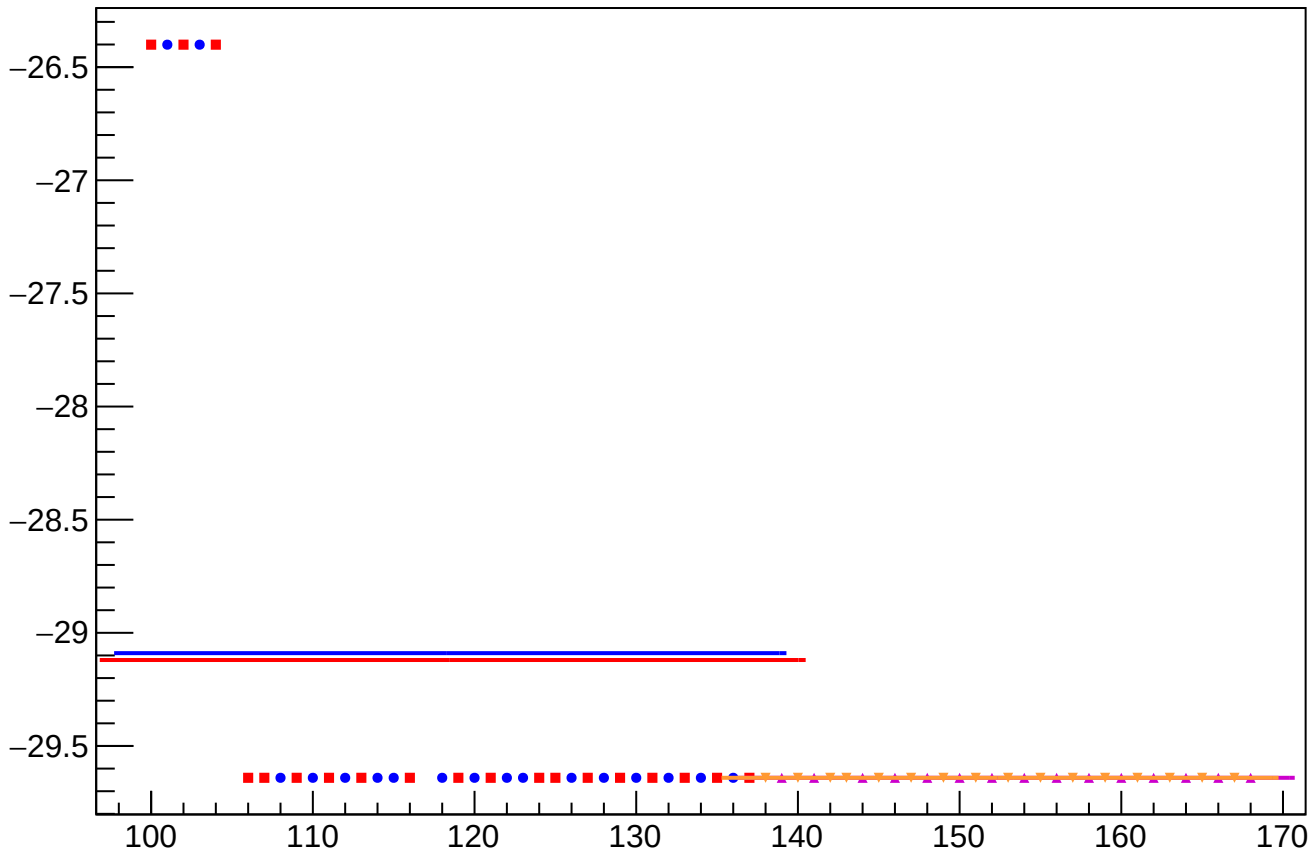
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -25.329+/-0.000 χ^2 /NDF: 14047028440863592

Out: -24.538+/-0.000 χ^2 /NDF: 1451240207503185

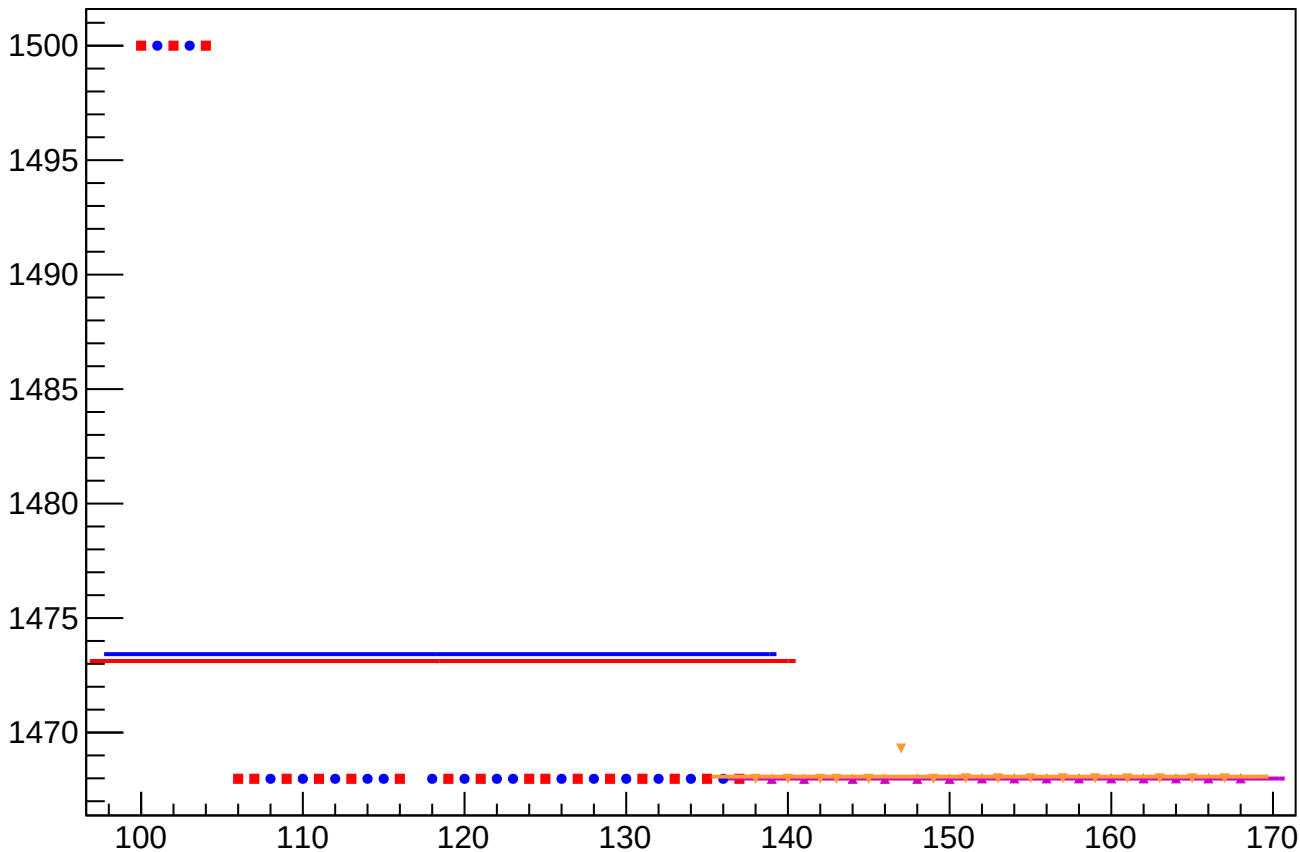
All: -24.928+/-0.000 χ^2 /NDF: 285600323878

epics_HWienAngles_mean vs Slug, Sign Corrected



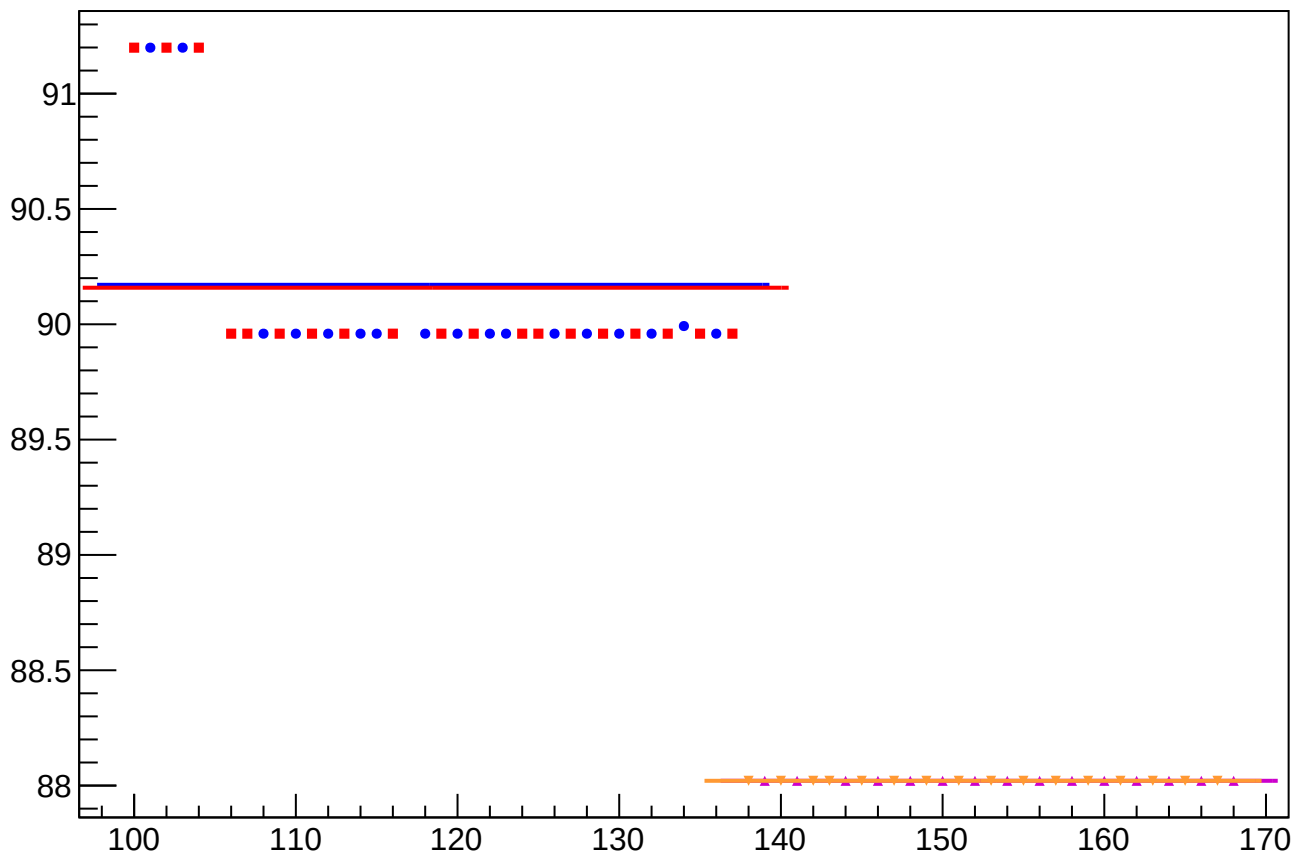
Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 220313.1/15
 Right Out: -29.120+/-0.000 χ^2/NDF : 1022076578393359839206130891882496.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 145188.3/14
 In: -29.439+/-0.000 χ^2/NDF : 11617454559241592
 Out: -29.448+/-0.000 χ^2/NDF : 1145356996721290
 All: -29.444+/-0.000 χ^2/NDF : 230717675741

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.075+/-0.000 χ^2/NDF : 125441849334309110352066409136128.0/15
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.991+/-0.000 χ^2/NDF : 117080165949056208561896423424.0/14
 All: 1469.959+/-0.000 χ^2/NDF : 22497805094

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 : 4494159.5/15

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5120603.4/14

Left: 88.021+/-0.000 χ^2/NDF : 14346211.8/30

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

In: 88.807+/-0.000

χ^2/NDF : 218675861035210593

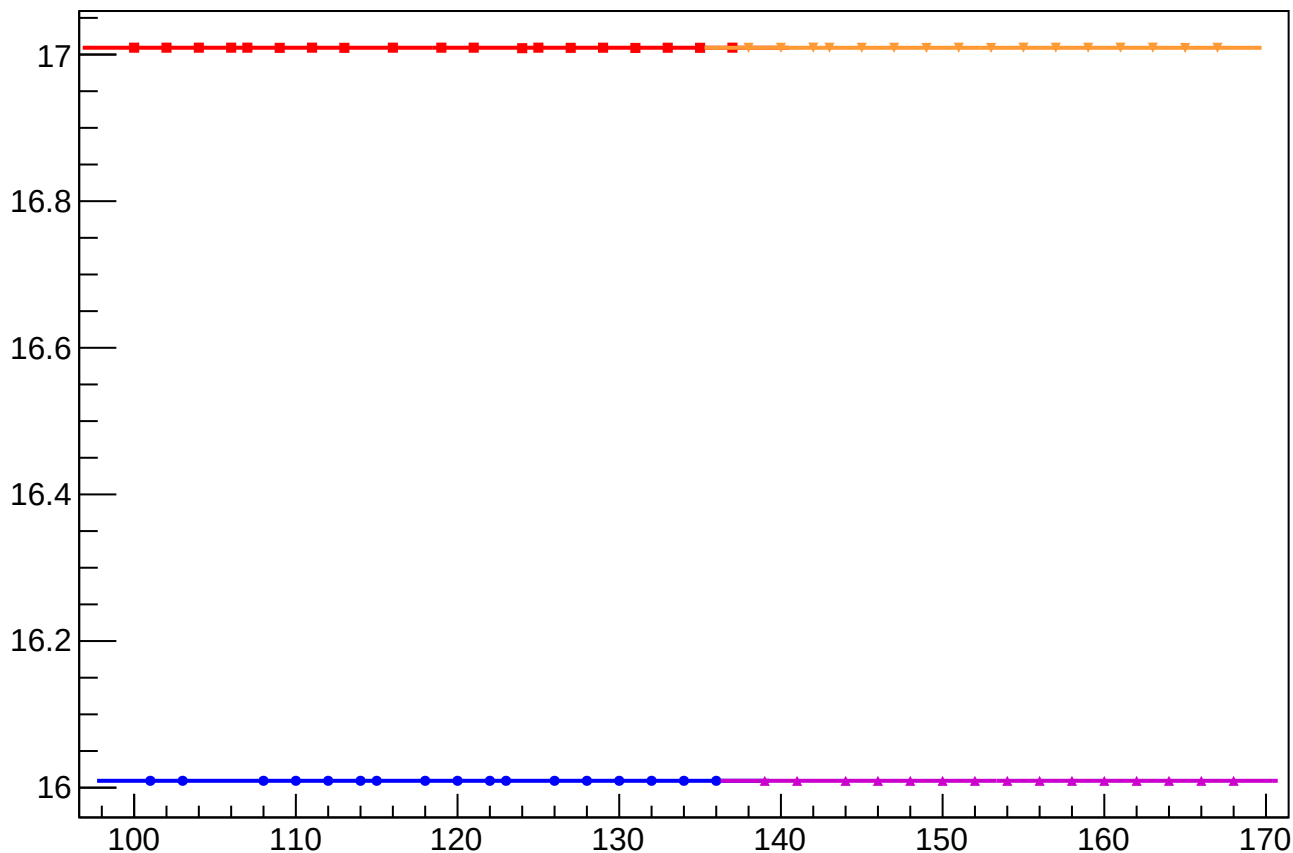
Out: 88.811+/-0.000

χ^2/NDF : 22289422192104020

All: 88.809+/-0.000

χ^2/NDF : 4415723411428

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 17772868462055089518936064.0/15

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 56368.8/14

Left: 16.511 $\pm$ 0.000 χ^2 /NDF: 56157791175506140

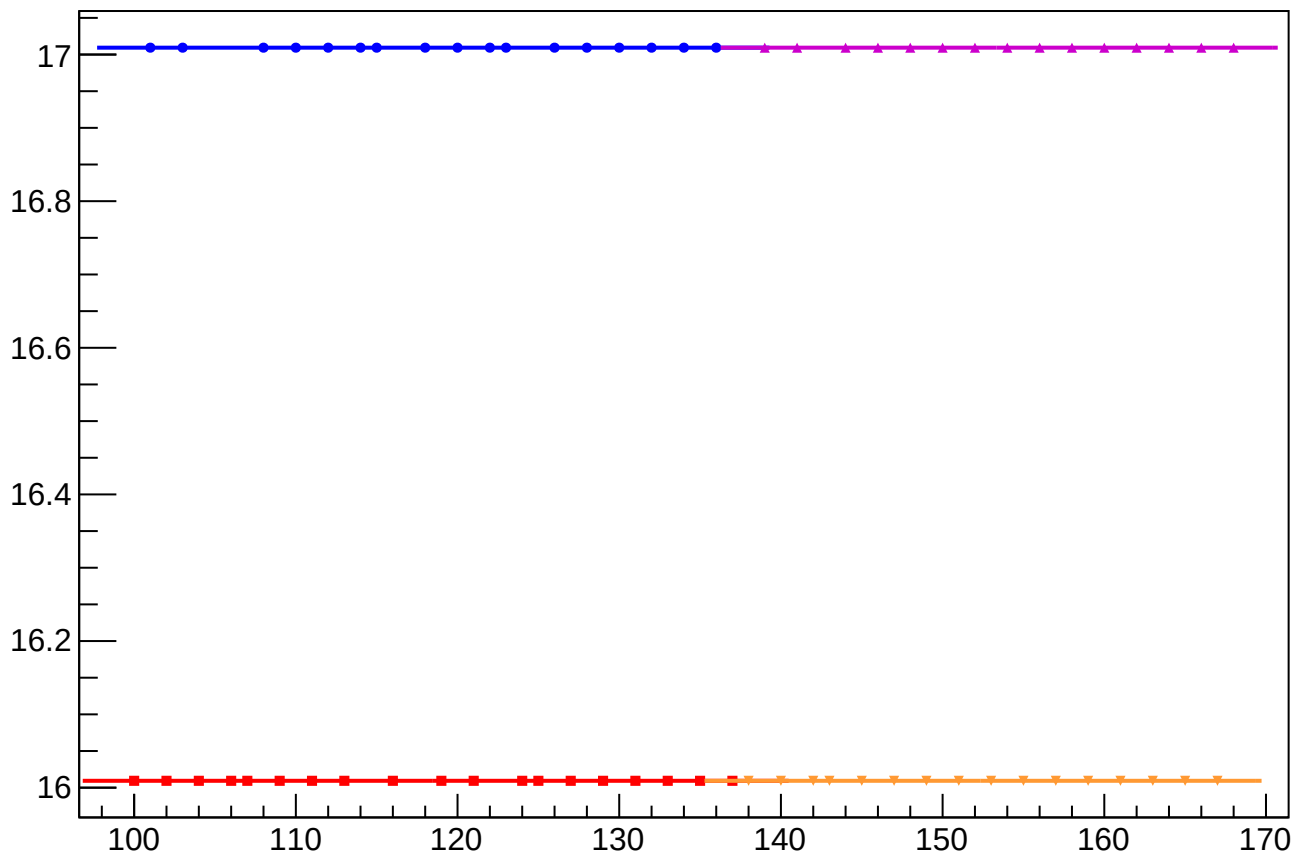
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 190184.9/31

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 31660011173158205

All: 16.509 $\pm$ 0.000 χ^2 /NDF: 8905233498214

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89602.0/15

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 39026.5/14

Left: 16.502 $\pm$ 0.000 χ^2 /NDF: 60160781055252298

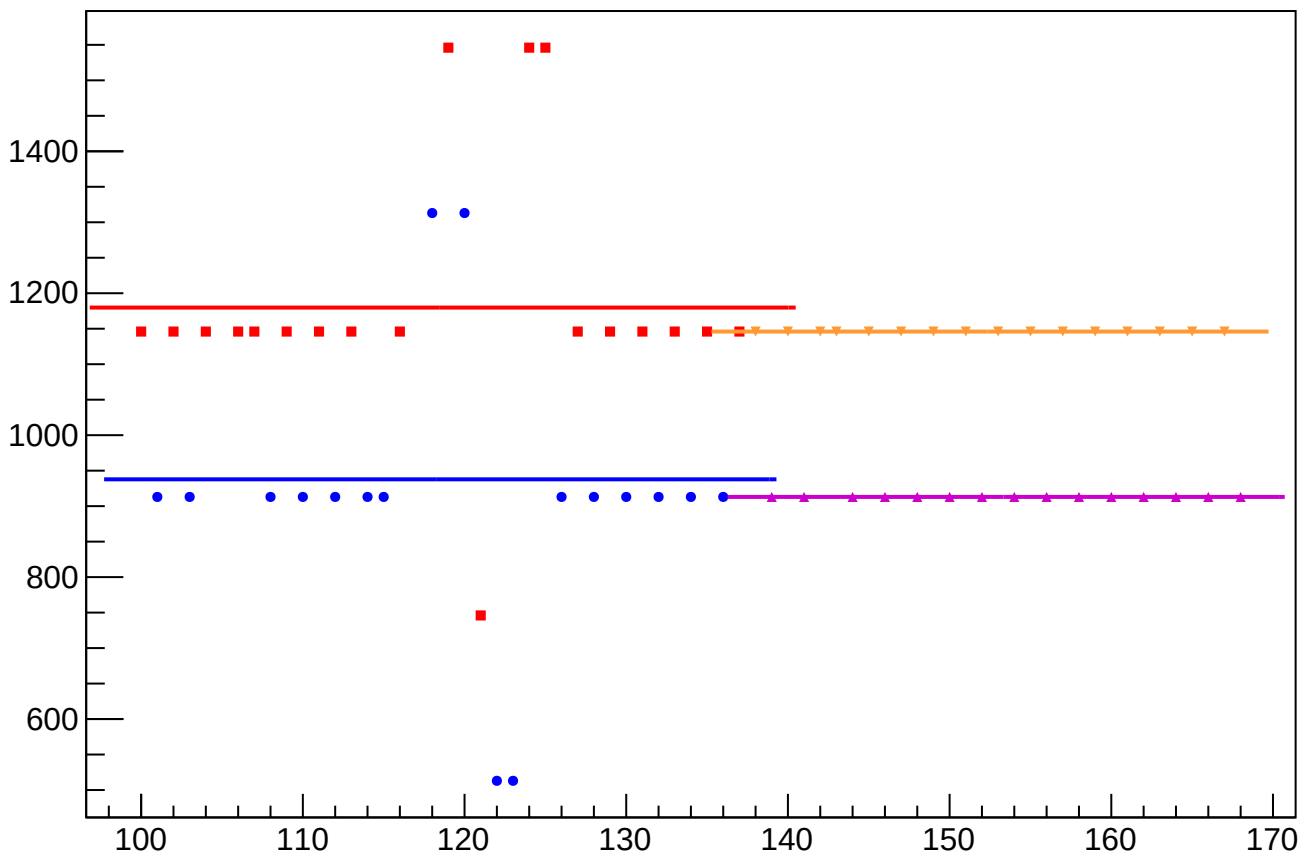
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 360667.2/31

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 283257.9/34

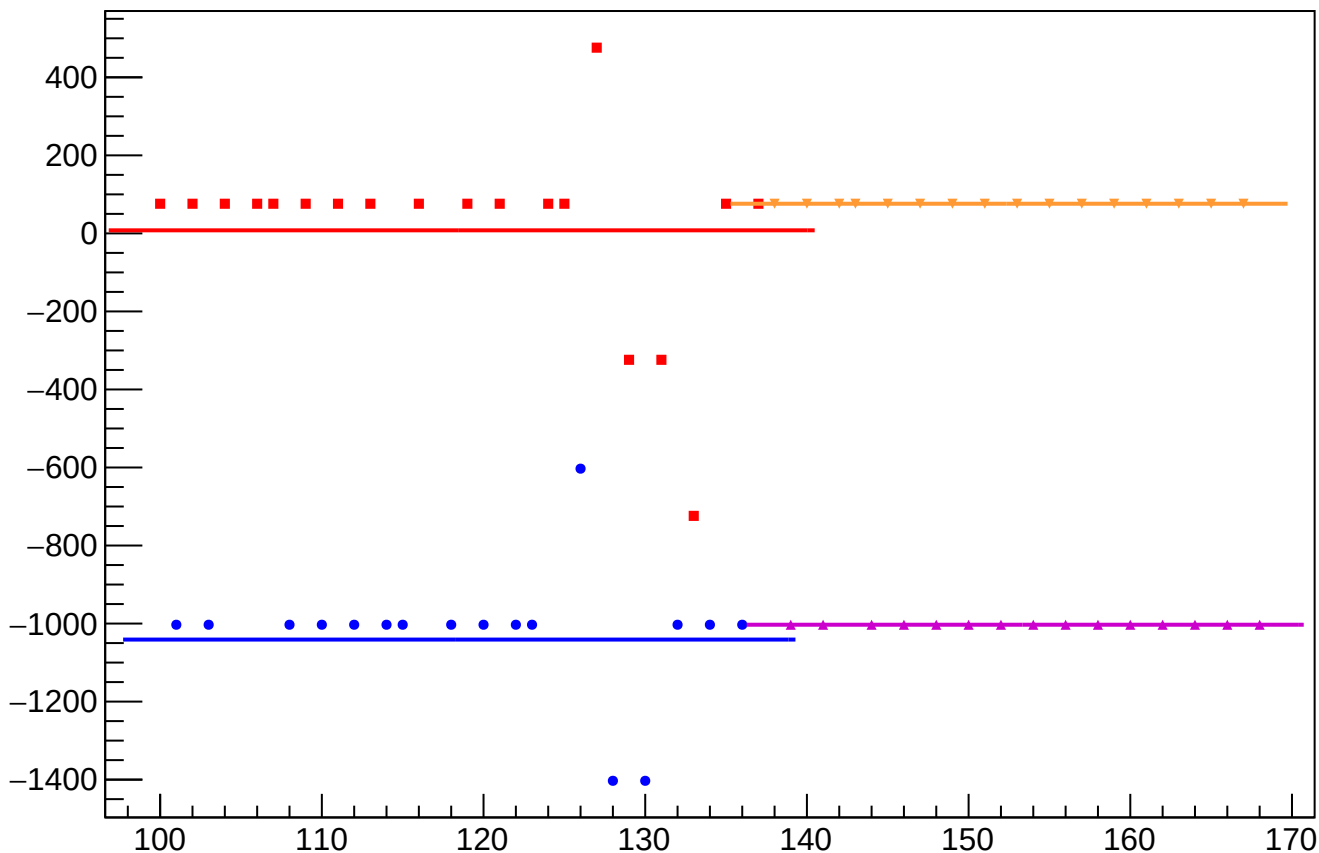
All: 16.497 $\pm$ 0.000 χ^2 /NDF: 9454648520084

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 : 4135490558436759457000062976.0/15
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 18060796655780727045165678592.0/14
 All: 1041.909+/-0.000 χ^2/NDF : 96880877260

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 : 10052923607451260422679691264.0/15
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 1855016956080798829012582400.0/14
 All: -475.696+/-0.000 χ^2/NDF : 11665775056