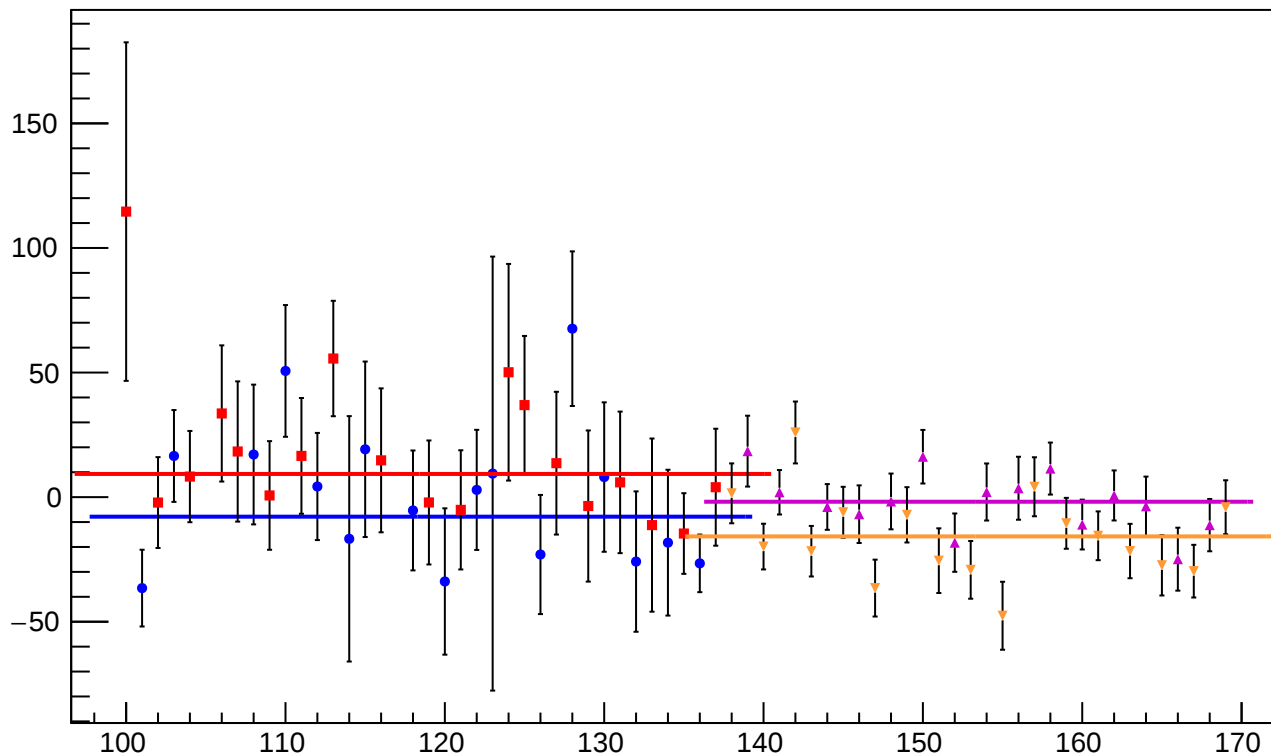


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -15.754 ± 2.682

$\chi^2/\text{NDF}: 33.3/16$

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: -9.134 ± 1.942

$\chi^2/\text{NDF}: 60.3/31$

Right: 0.629 ± 3.990

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

In: -3.049 ± 2.516

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

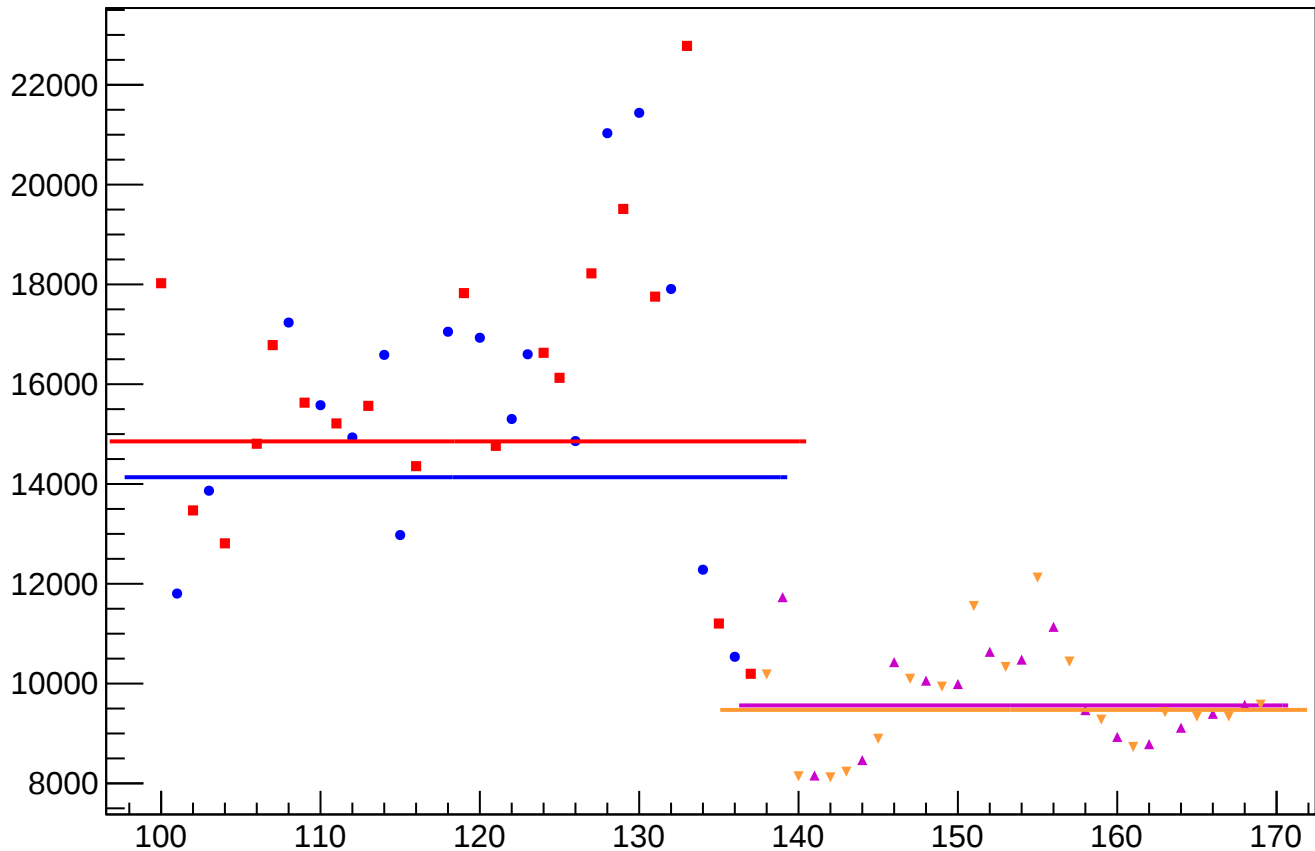
Out: -11.180 ± 2.425

$\chi^2/\text{NDF}: 62.4/35$

All: -7.264 ± 1.746

$\chi^2/\text{NDF}: 105.6/67$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800+/-3.966 χ^2/NDF : 597179.4/16

Left Out: 9472.862+/-1.897 χ^2/NDF : 282948.4/16

Right Out: 14854.033+/-4.014 χ^2/NDF : 472017.6/18

Left In: 9562.192+/-1.990 χ^2/NDF : 227045.7/14

Left: 9515.374+/-1.373 χ^2/NDF : 511049.7/31

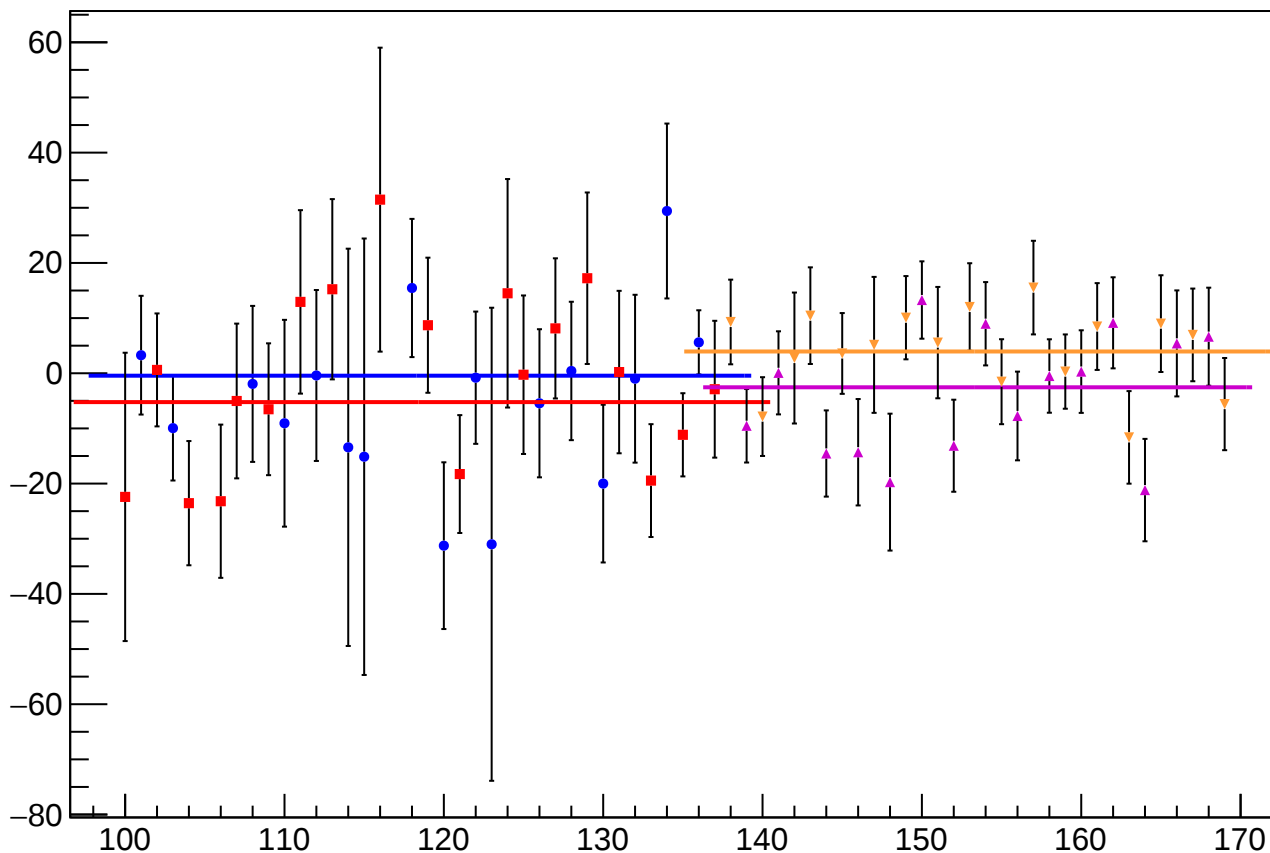
Right: 14490.533+/-2.821 χ^2/NDF : 1085397.6/35

In: 10482.526+/-1.779 χ^2/NDF : 1886668.7/31

Out: 10454.902+/-1.715 χ^2/NDF : 2223904.9/35

All: 10468.208+/-1.235 χ^2/NDF : 4110698.6/66

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.948 ± 2.001 χ^2/NDF : 13.7/16

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: 0.825 ± 1.441 χ^2/NDF : 43.2/31

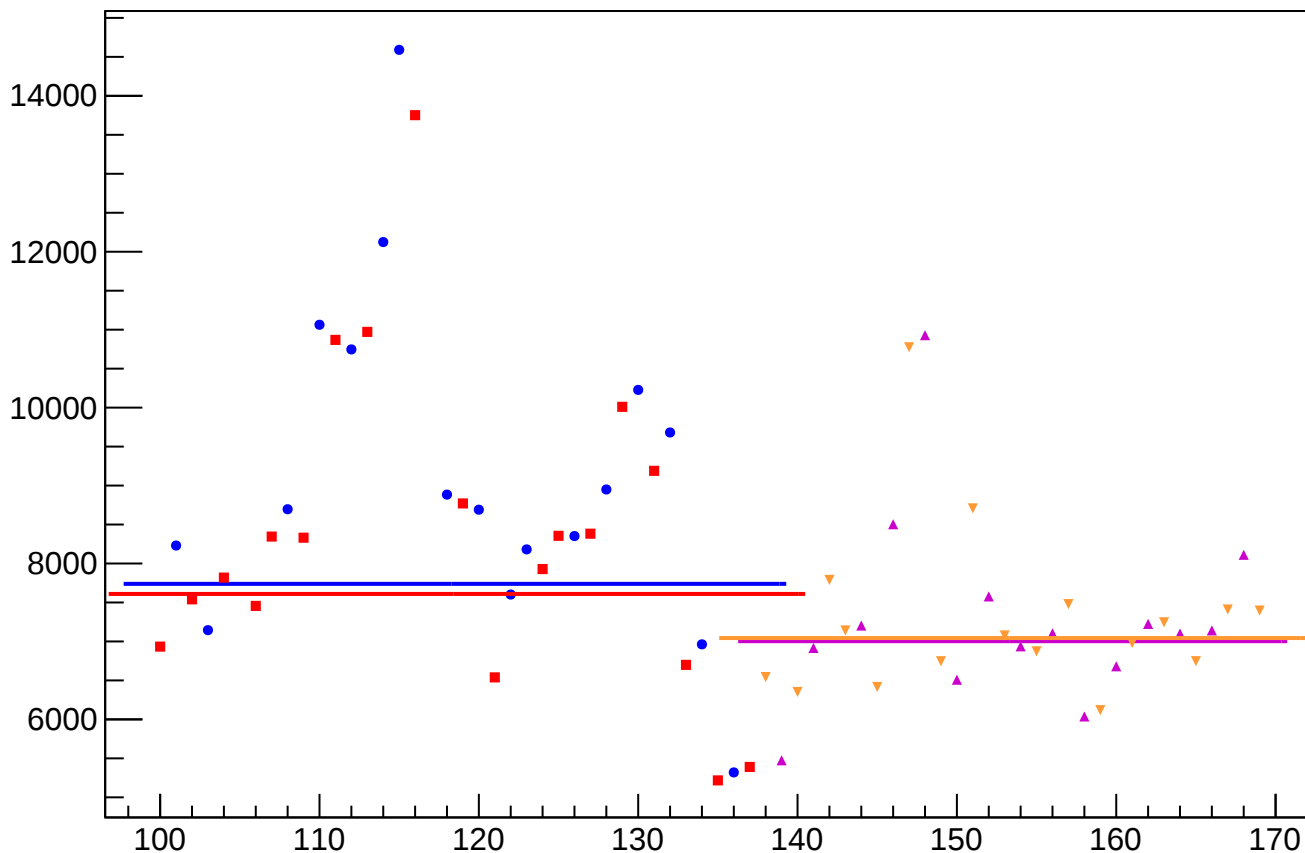
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -1.884 ± 1.721 χ^2/NDF : 39.3/31

Out: 1.038 ± 1.653 χ^2/NDF : 39.7/35

All: -0.364 ± 1.192 χ^2/NDF : 80.5/67

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7043.665 $\pm$ 1.415 χ^2 /NDF:345772.2/16

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: 7024.177 $\pm$ 1.019 χ^2 /NDF: 800430.7/31

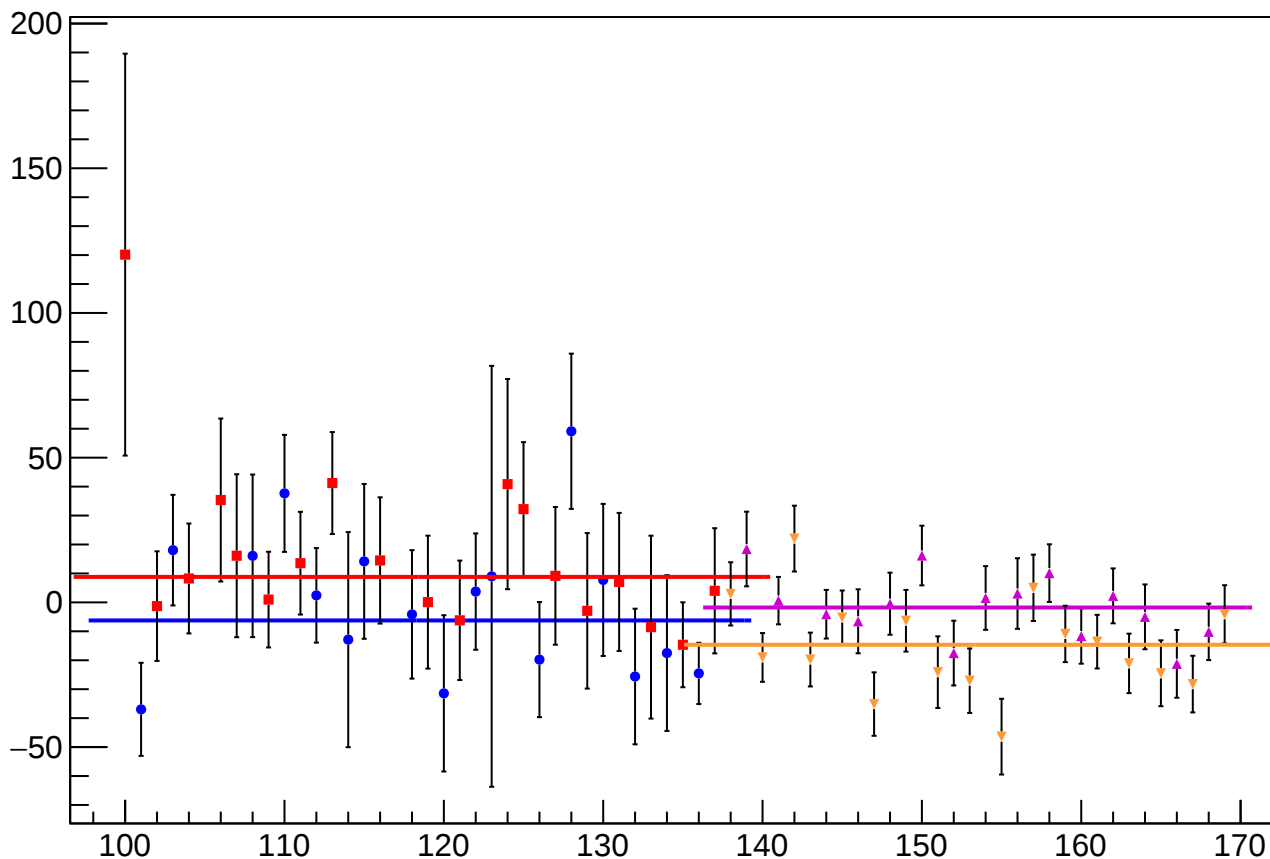
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

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

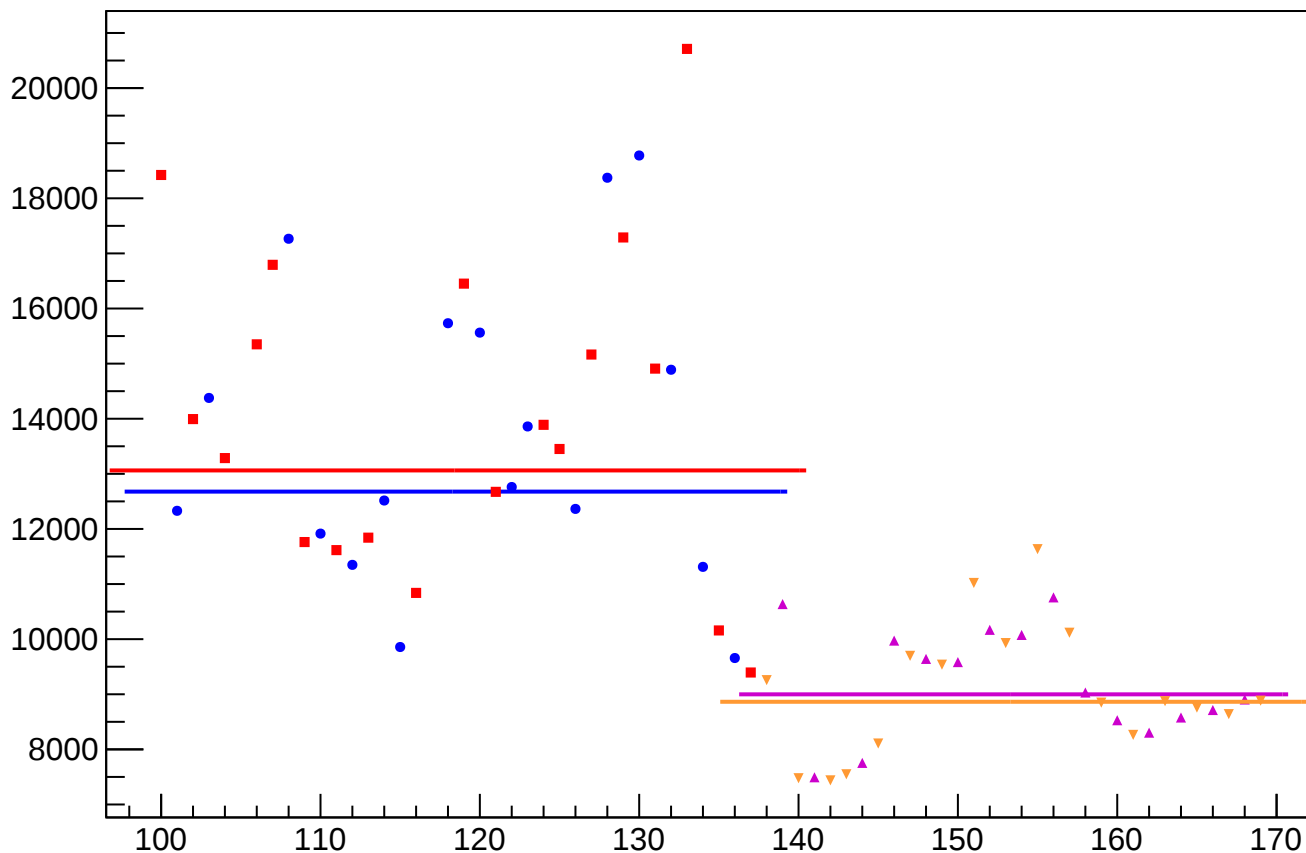
Out: 7223.111 $\pm$ 1.169 χ^2 /NDF:1075692.1/35

All: 7228.423 $\pm$ 0.843 χ^2 /NDF: 2349579.7/67

diff_bpm4eX_mean vs Slug, Sign Corrected



diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8863.776+/-1.778 χ^2/NDF : 363125.4/16

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: 8927.691+/-1.290 χ^2/NDF : 641024.5/31

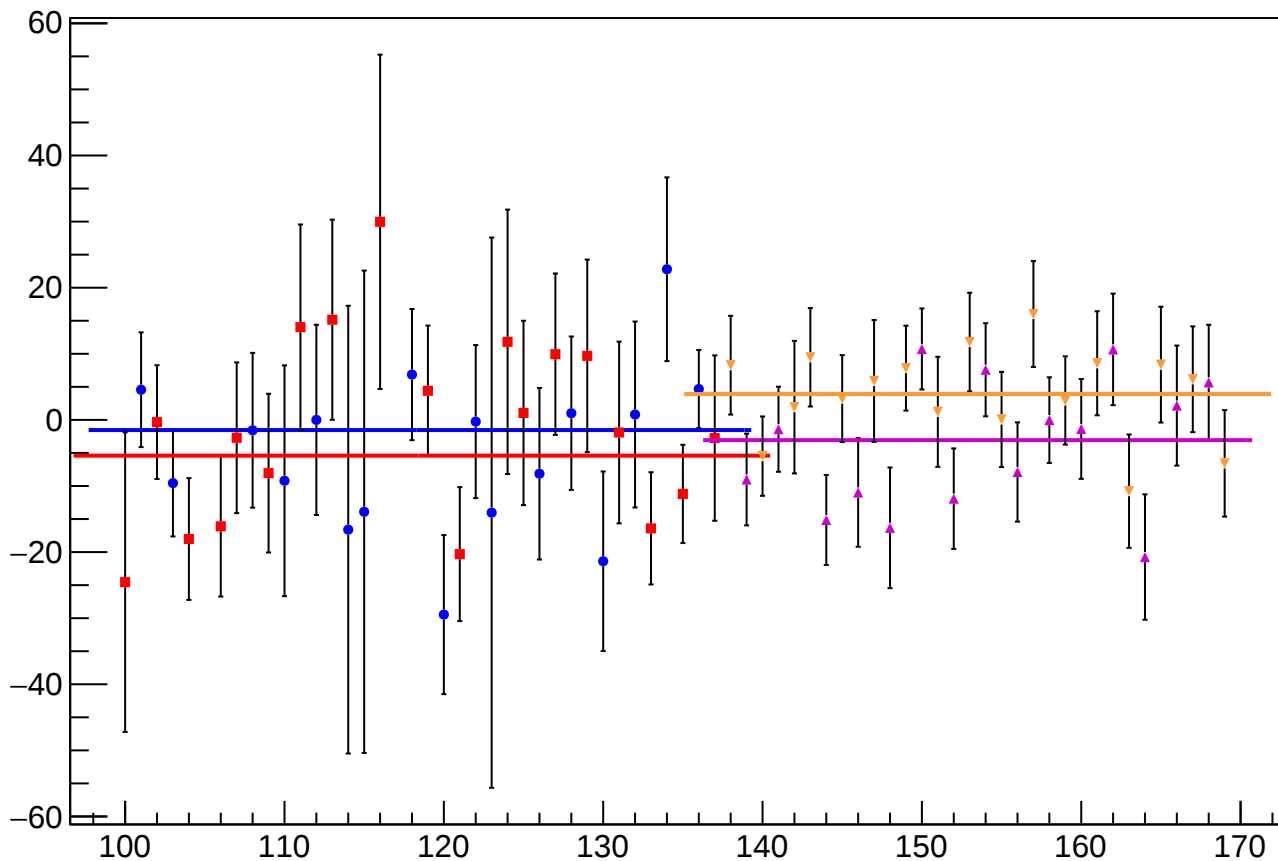
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

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

Out: 9711.214+/-1.588 χ^2/NDF : 1986165.0/35

All: 9754.645+/-1.147 χ^2/NDF : 3656931.3/67

diff_bpm4eY_mean vs Slug, Sign Corrected



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

Left Out: 3.918 ± 1.837 χ^2/NDF : 12.9/16

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

Left In: -3.065 ± 1.936 χ^2/NDF : 23.8/14

Left: 0.609 ± 1.333 χ^2/NDF : 43.6/31

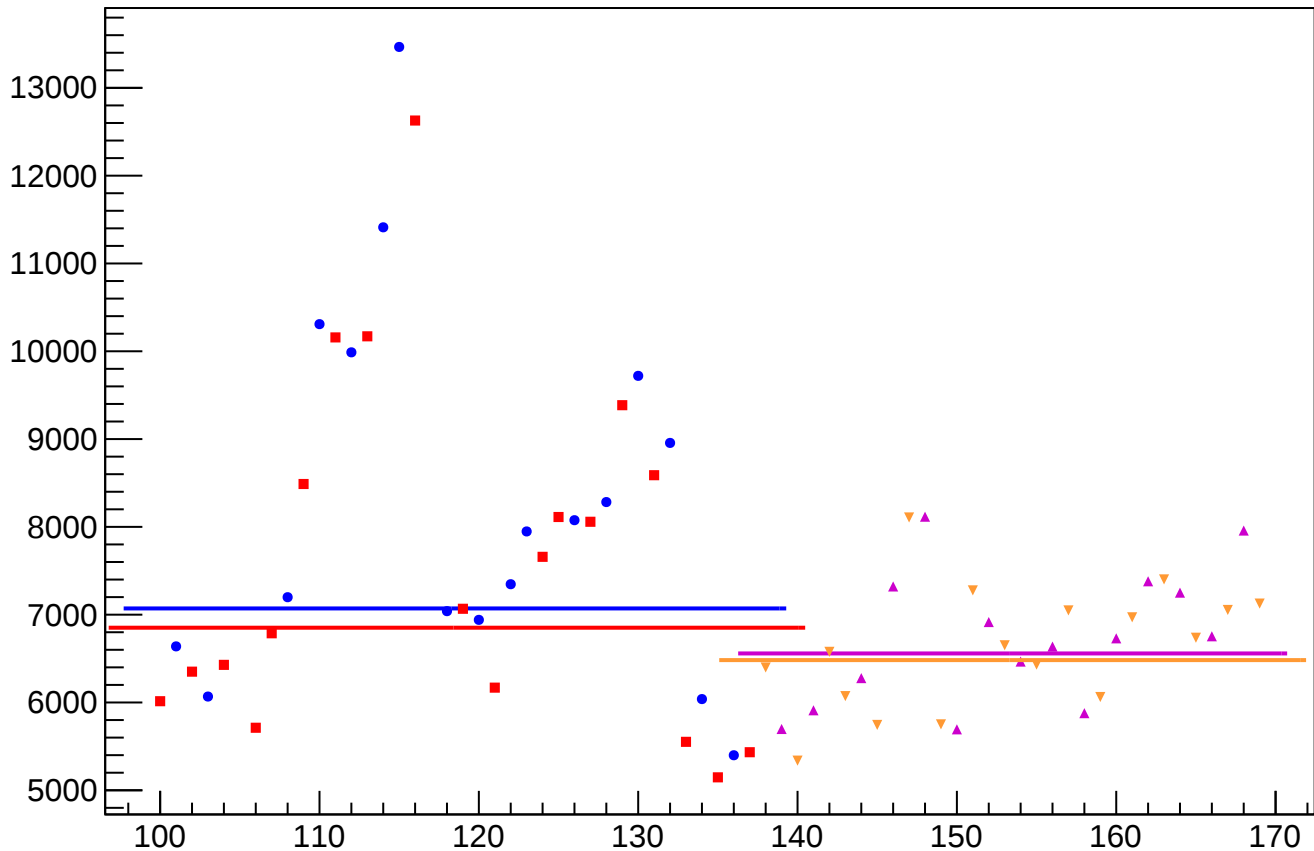
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -2.569 ± 1.591 χ^2/NDF : 38.9/31

Out: 0.876 ± 1.508 χ^2/NDF : 39.9/35

All: -0.755 ± 1.094 χ^2/NDF : 81.3/67

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6482.606+/-1.299 χ^2/NDF : 285044.7/16

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: 6518.593+/-0.942 χ^2/NDF : 566475.3/31

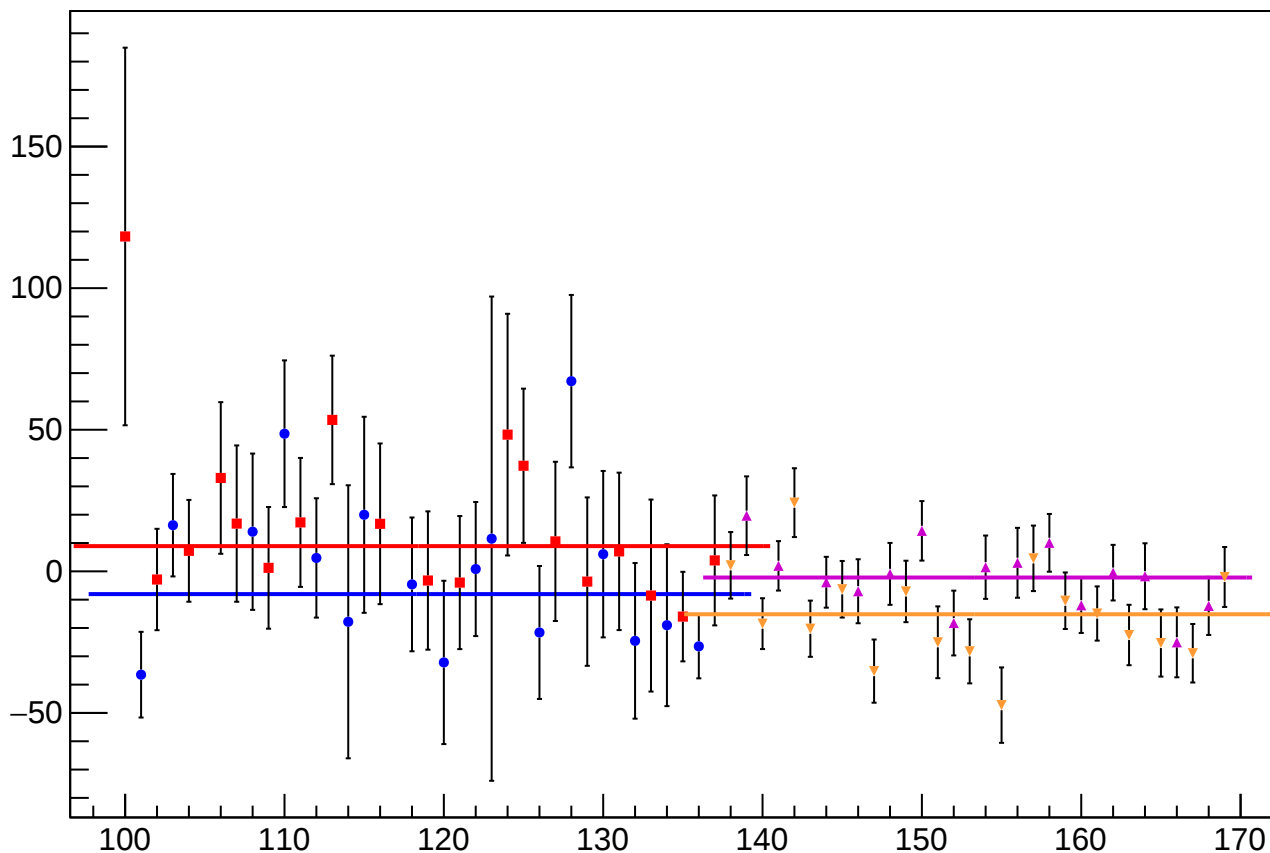
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

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

Out: 6603.030+/-1.066 χ^2/NDF : 995771.9/35

All: 6660.793+/-0.774 χ^2/NDF : 1928077.9/67

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -15.153 ± 2.622 $\chi^2/\text{NDF}: 33.1/16$

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: -8.980 ± 1.898 $\chi^2/\text{NDF}: 59.2/31$

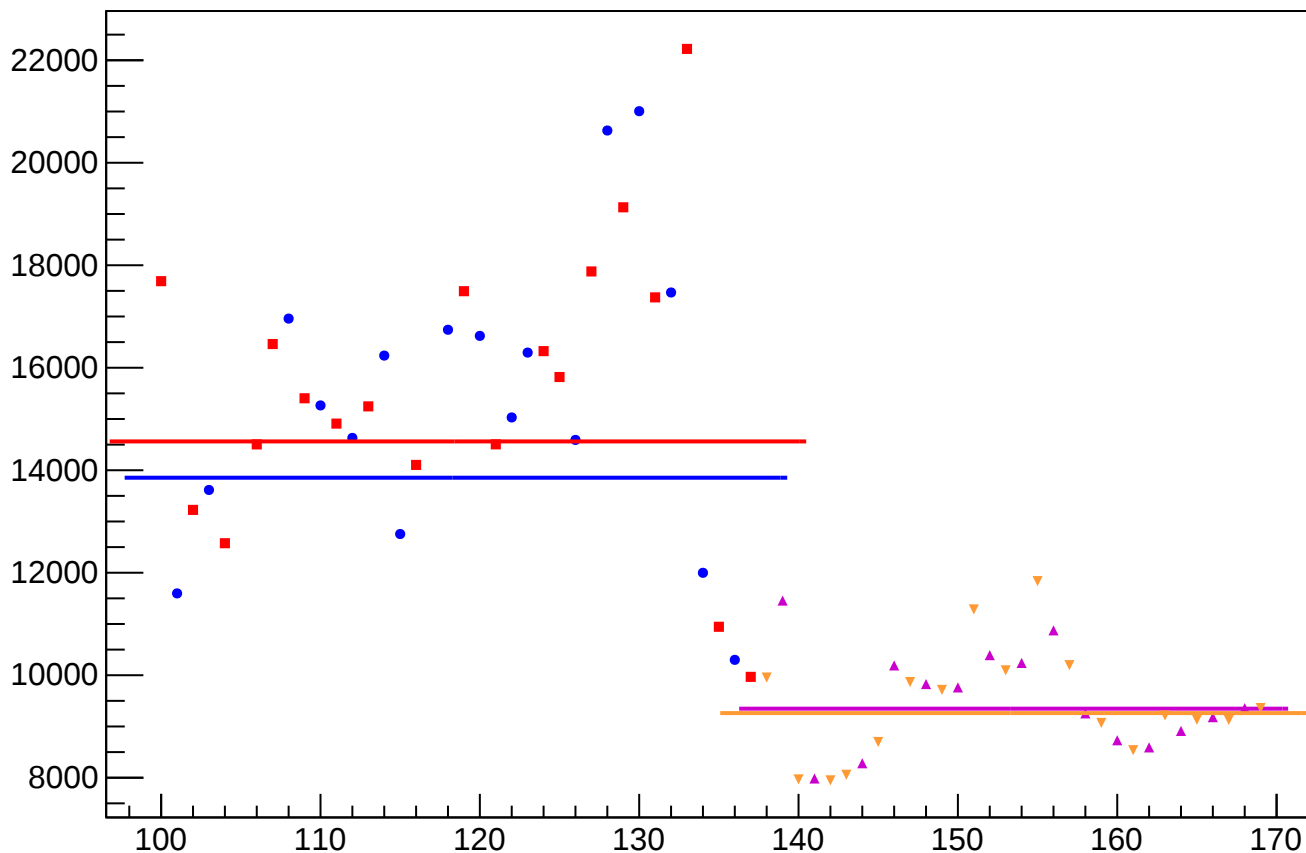
Right: 0.330 ± 3.911 $\chi^2/\text{NDF}: 41.0/35$

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

Out: -10.784 ± 2.372 $\chi^2/\text{NDF}: 62.1/35$

All: -7.205 ± 1.708 $\chi^2/\text{NDF}: 104.8/67$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187 $\pm$ 3.887 χ^2 /NDF: 600963.4/16

Left Out: 9261.167 $\pm$ 1.854 χ^2 /NDF: 279726.3/16

Right Out: 14562.308 $\pm$ 3.936 χ^2 /NDF: 474279.5/18

Left In: 9347.486 $\pm$ 1.946 χ^2 /NDF: 224340.9/14

Left: 9302.250 $\pm$ 1.342 χ^2 /NDF: 505098.8/31

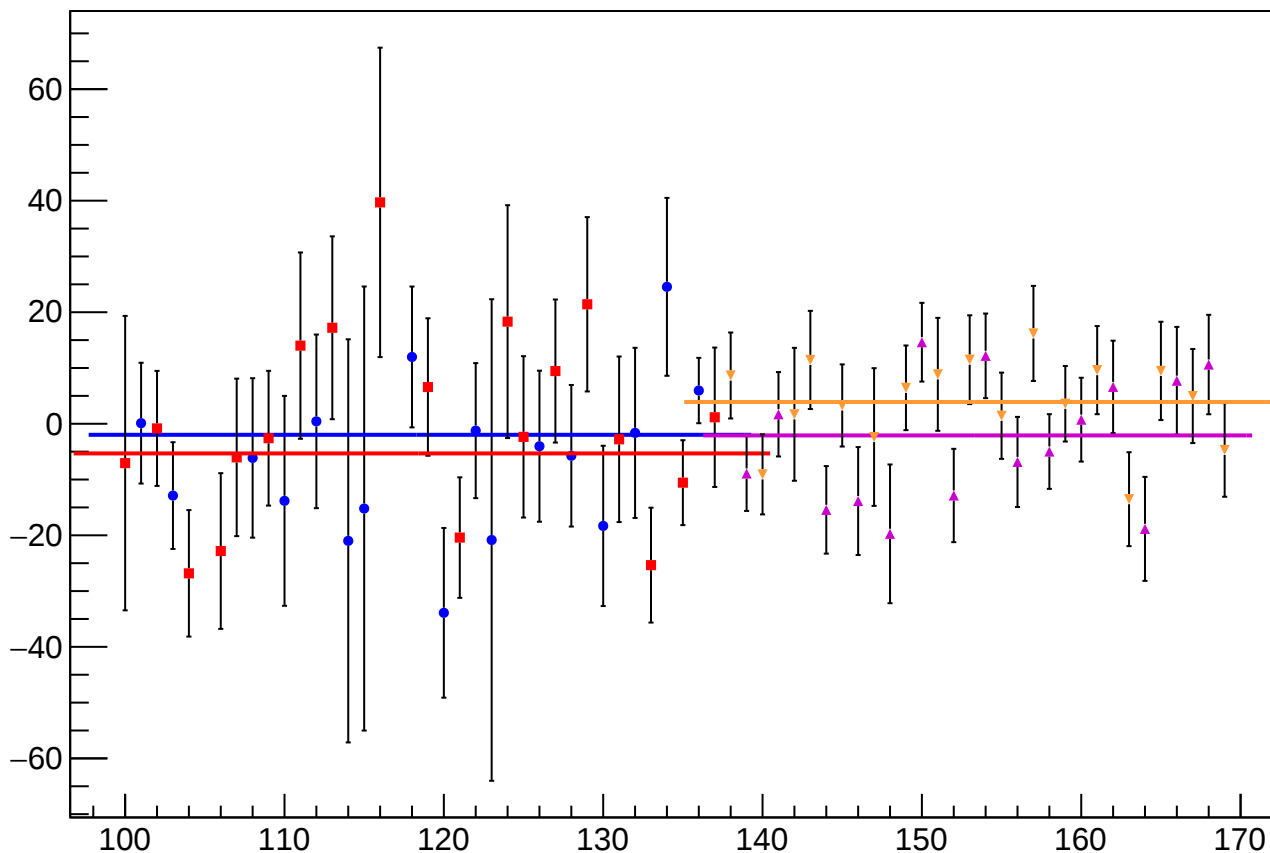
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 10250.284 $\pm$ 1.740 χ^2 /NDF: 1900157.3/31

Out: 10223.933 $\pm$ 1.677 χ^2 /NDF: 2238621.0/35

All: 10236.627 $\pm$ 1.208 χ^2 /NDF: 4138897.2/66

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 χ^2/NDF : 14.0/16

Left Out: 3.908 ± 2.009 χ^2/NDF : 14.4/16

Right Out: -5.318 ± 2.959 χ^2/NDF : 24.3/18

Left In: -2.091 ± 2.087 χ^2/NDF : 26.6/14

Left: 1.023 ± 1.448 χ^2/NDF : 45.2/31

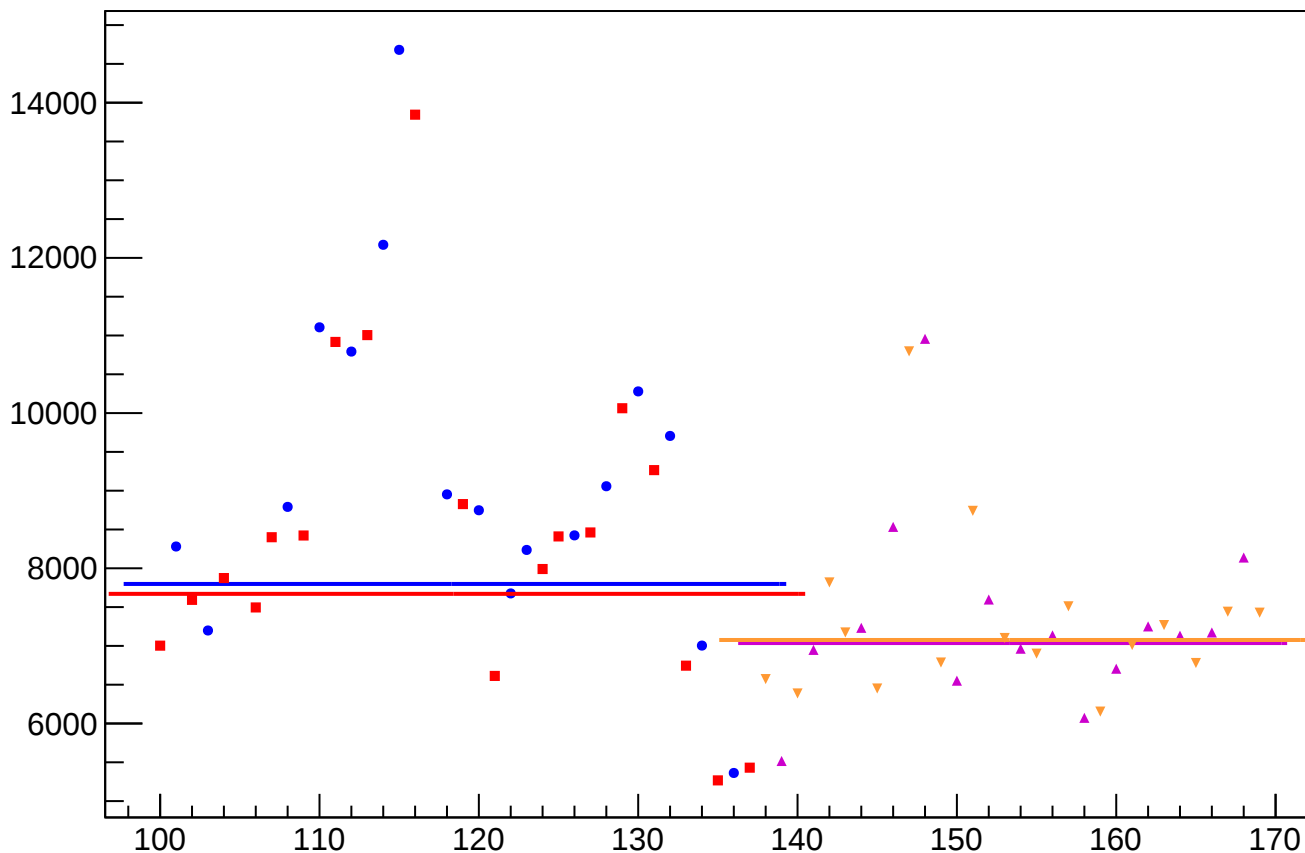
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -2.055 ± 1.730 χ^2/NDF : 40.6/31

Out: 0.995 ± 1.662 χ^2/NDF : 45.3/35

All: -0.469 ± 1.199 χ^2/NDF : 87.6/67

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7076.141 ± 1.421 $\chi^2/\text{NDF}: 341884.7/16$

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

Left In: 7036.687 ± 1.476 $\chi^2/\text{NDF}: 447392.4/14$

Left: 7057.162 ± 1.024 $\chi^2/\text{NDF}: 789648.0/31$

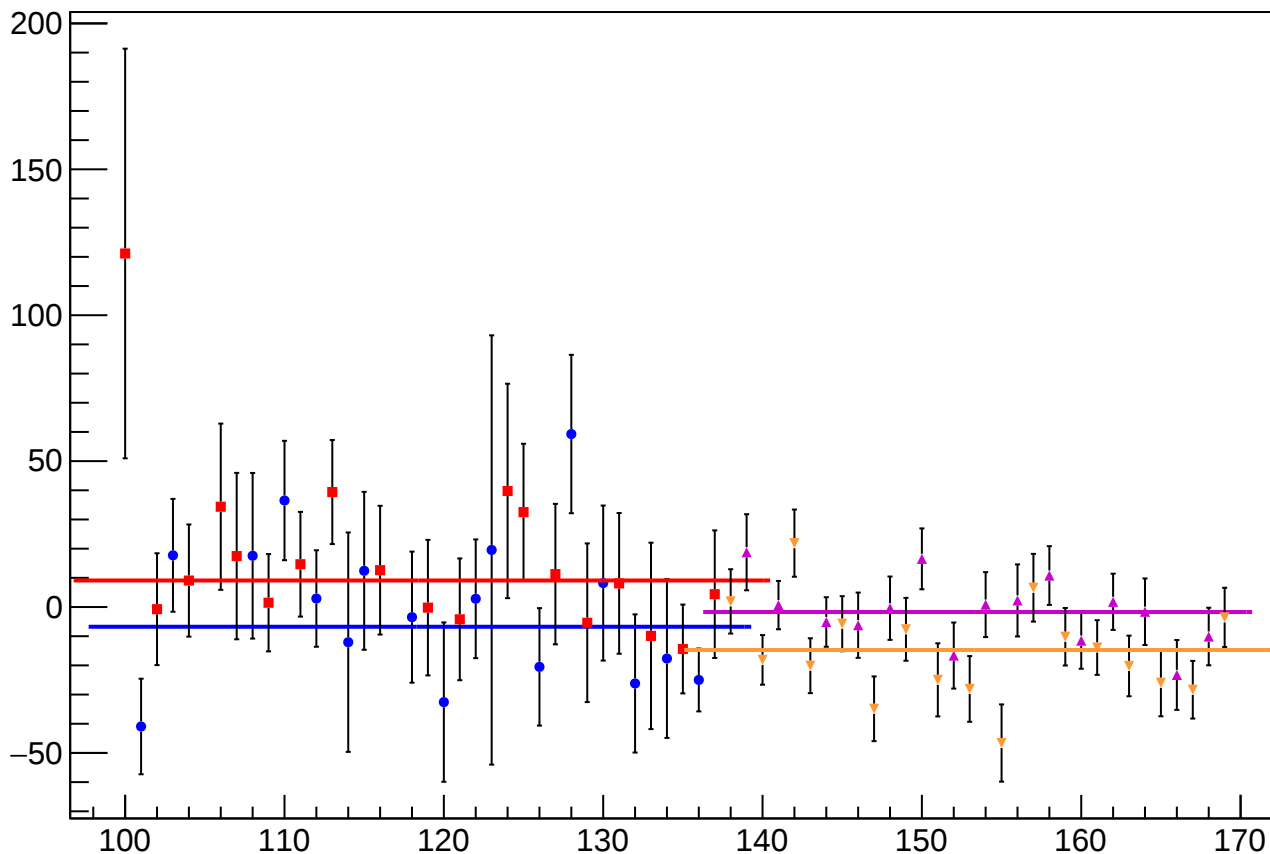
Right: 7731.569 ± 1.512 $\chi^2/\text{NDF}: 1410753.9/35$

In: 7274.881 ± 1.224 $\chi^2/\text{NDF}: 1266955.9/31$

Out: 7263.808 ± 1.175 $\chi^2/\text{NDF}: 1069828.2/35$

All: 7269.123 ± 0.848 $\chi^2/\text{NDF}: 2336826.7/67$

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -14.727 ± 2.542 χ^2/NDF : 33.4/16

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: -8.572 ± 1.846 χ^2/NDF : 60.3/31

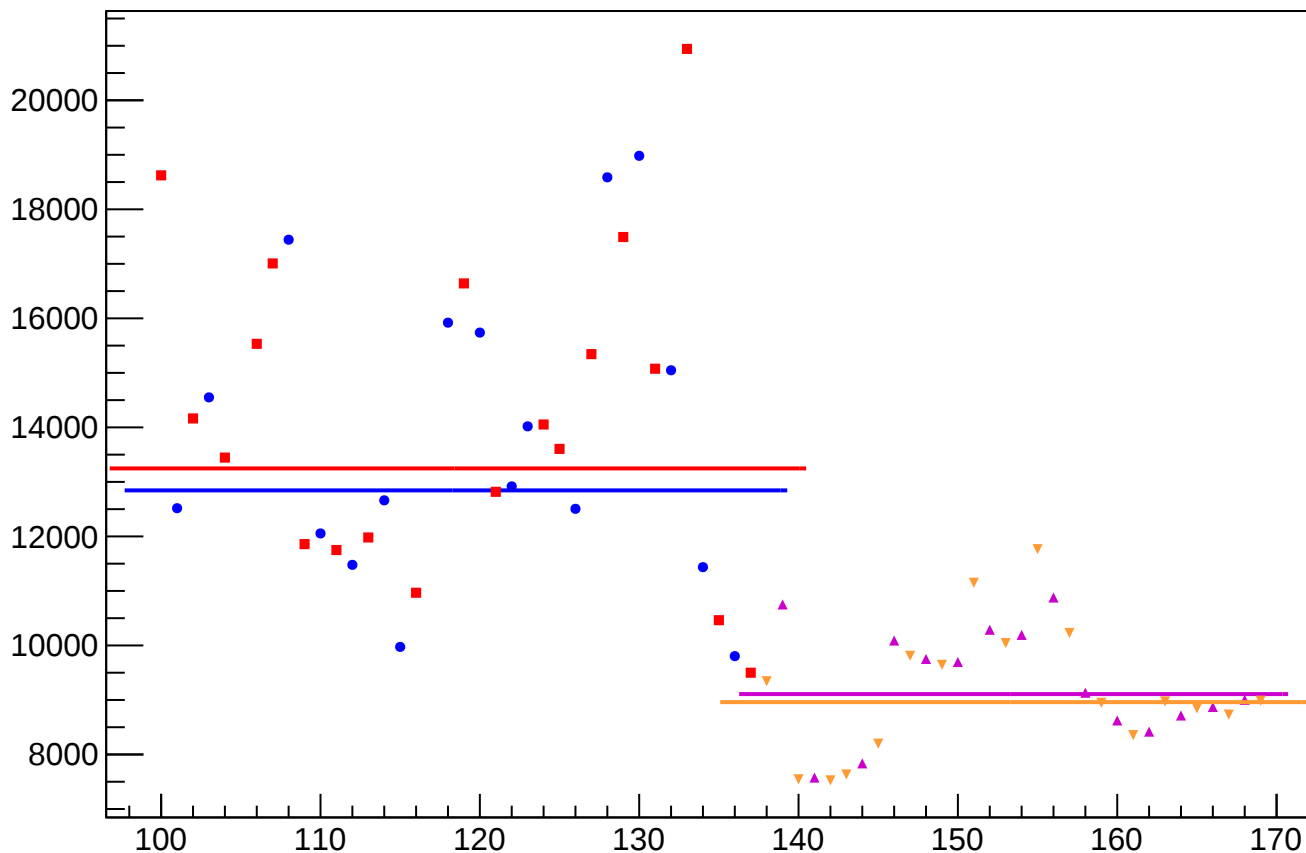
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -2.809 ± 2.374 χ^2/NDF : 39.0/31

Out: -9.941 ± 2.272 χ^2/NDF : 63.3/35

All: -6.531 ± 1.642 χ^2/NDF : 106.9/67

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8960.748 $\pm$ 1.797 χ^2 /NDF: 364741.2/16

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: 9030.256 $\pm$ 1.305 χ^2 /NDF: 642351.4/31

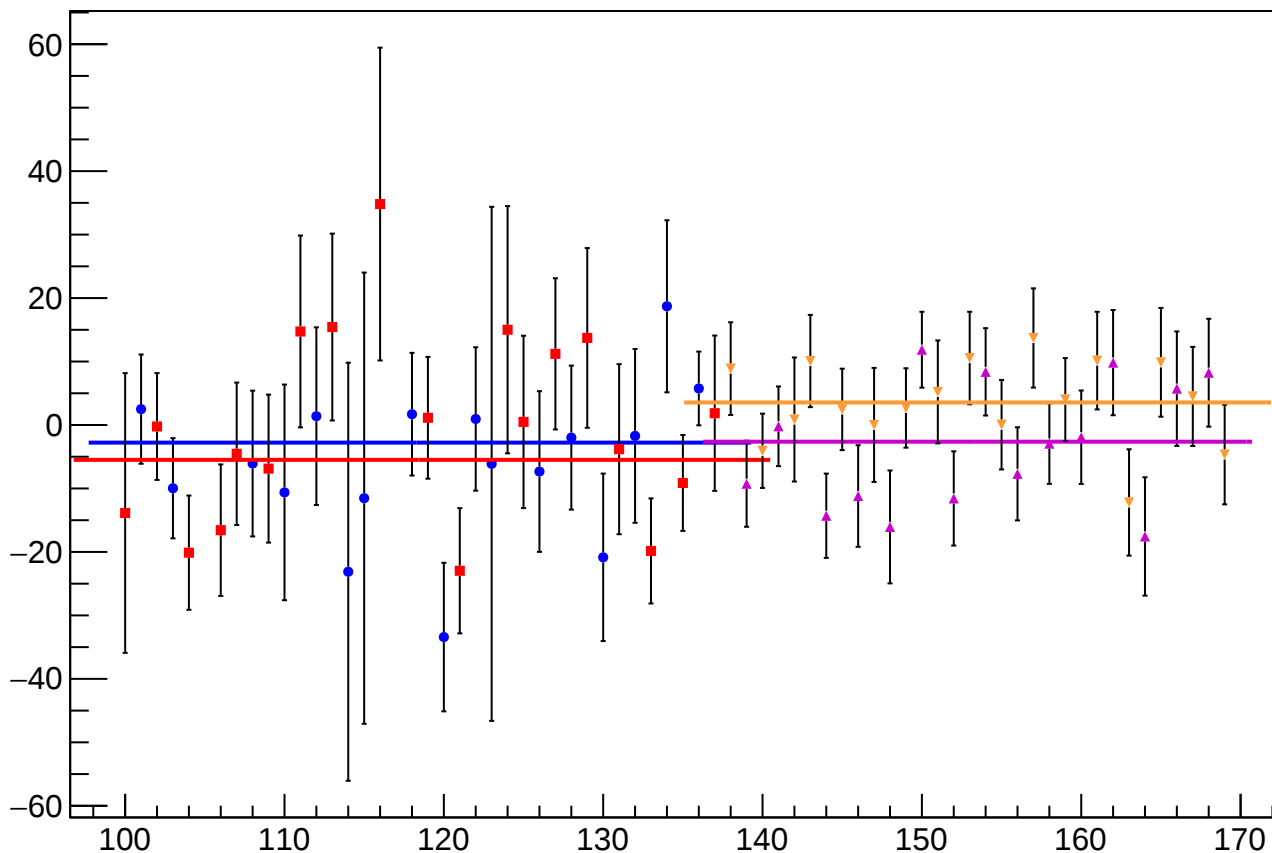
Right: 13046.351 $\pm$ 2.539 χ^2 /NDF: 1039049.9/35

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

Out: 9821.598 $\pm$ 1.607 χ^2 /NDF: 1992523.4/35

All: 9869.730 $\pm$ 1.161 χ^2 /NDF: 3660729.7/67

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.552 ± 1.793 $\chi^2/\text{NDF}: 12.1/16$

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: 0.626 ± 1.301 $\chi^2/\text{NDF}: 43.1/31$

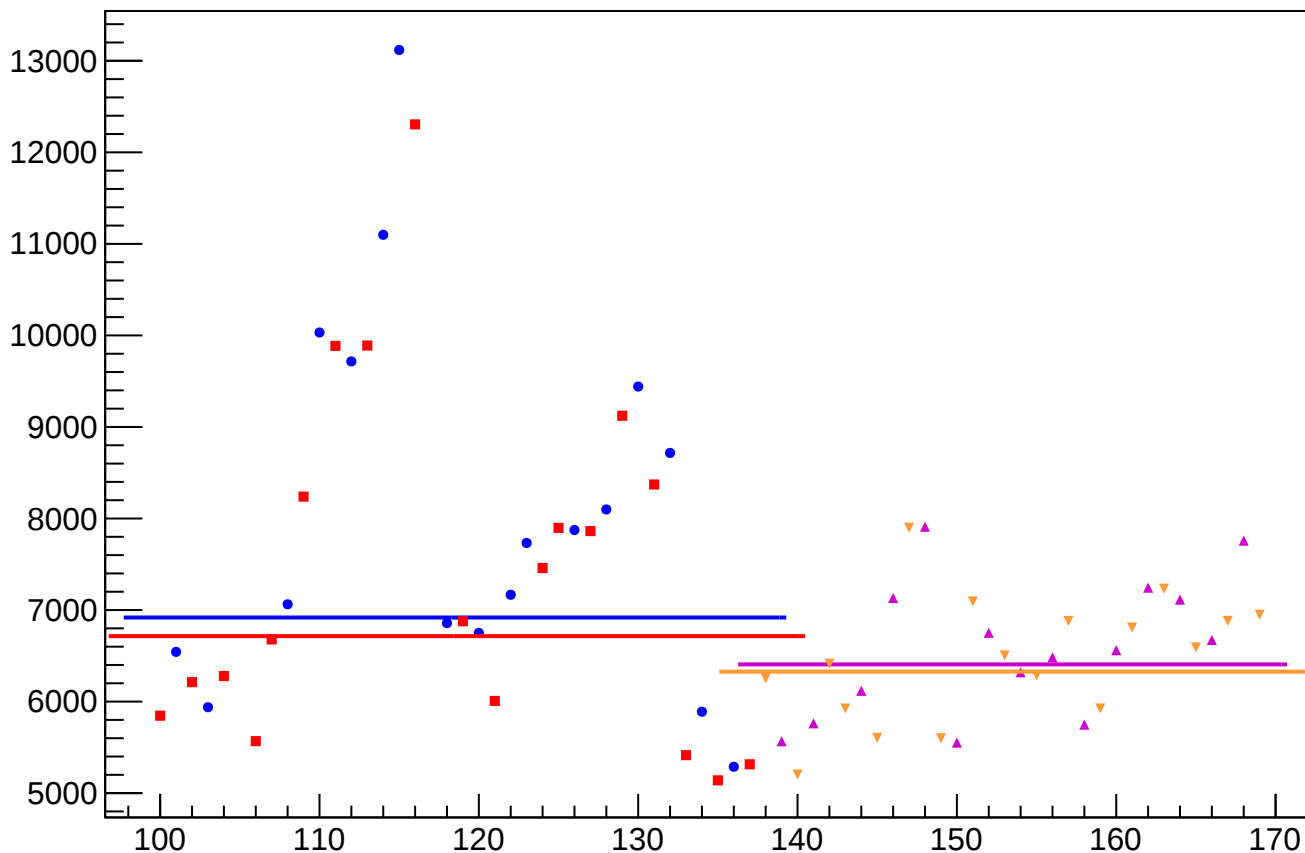
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

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

Out: 0.618 ± 1.474 $\chi^2/\text{NDF}: 43.5/35$

All: -0.941 ± 1.070 $\chi^2/\text{NDF}: 87.1/67$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6327.285 ± 1.268 $\chi^2/\text{NDF}: 286409.5/16$

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

Left In: 6406.183 ± 1.338 $\chi^2/\text{NDF}: 281669.3/14$

Left: 6364.630 ± 0.920 $\chi^2/\text{NDF}: 569911.2/31$

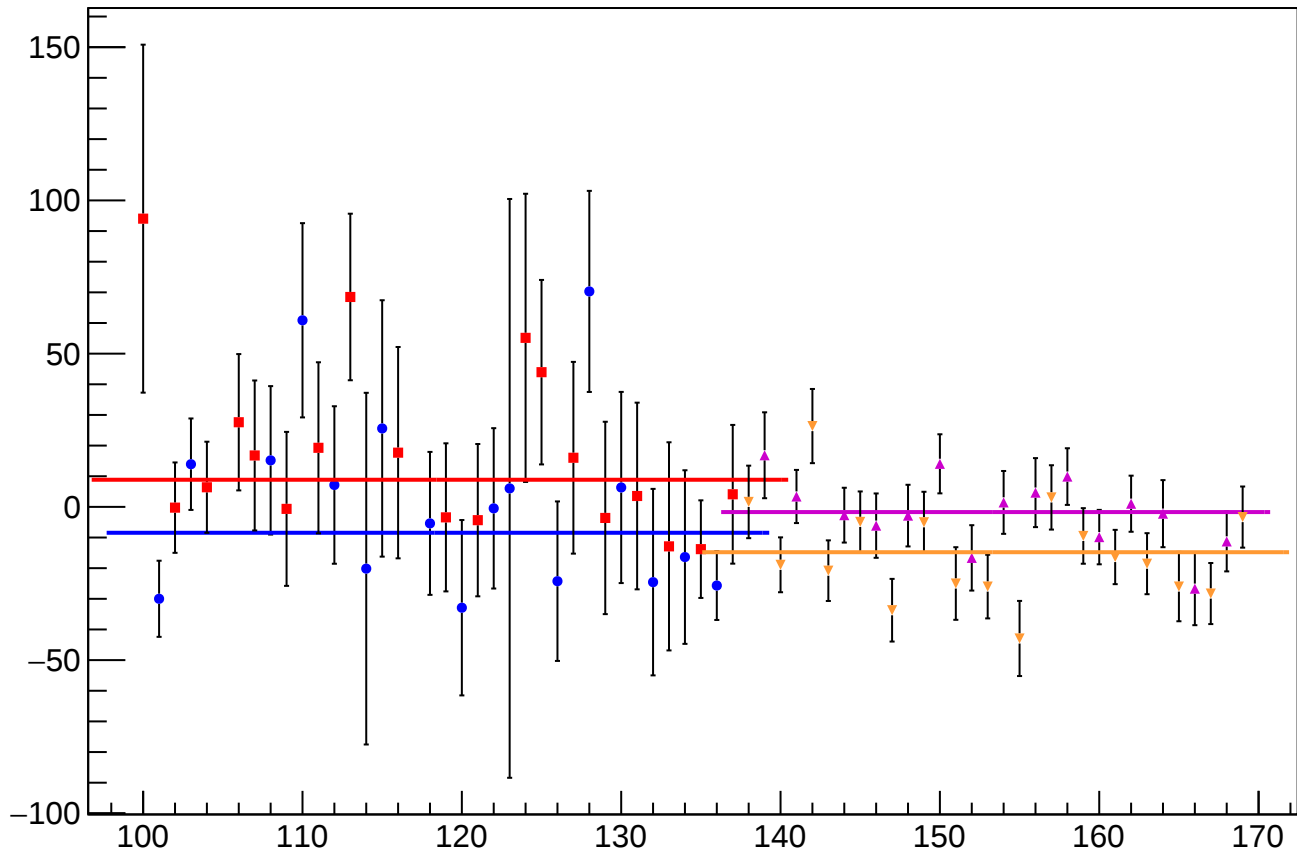
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6572.224 ± 1.100 $\chi^2/\text{NDF}: 916251.9/31$

Out: 6453.100 ± 1.042 $\chi^2/\text{NDF}: 972758.6/35$

All: 6509.468 ± 0.756 $\chi^2/\text{NDF}: 1895192.6/67$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 ± 5.393 χ^2/NDF : 22.0/16

Left Out: -14.790 ± 2.488 χ^2/NDF : 34.2/16

Right Out: 8.854 ± 5.508 χ^2/NDF : 14.2/18

Left In: -1.694 ± 2.591 χ^2/NDF : 15.2/14

Left: -8.507 ± 1.795 χ^2/NDF : 62.7/31

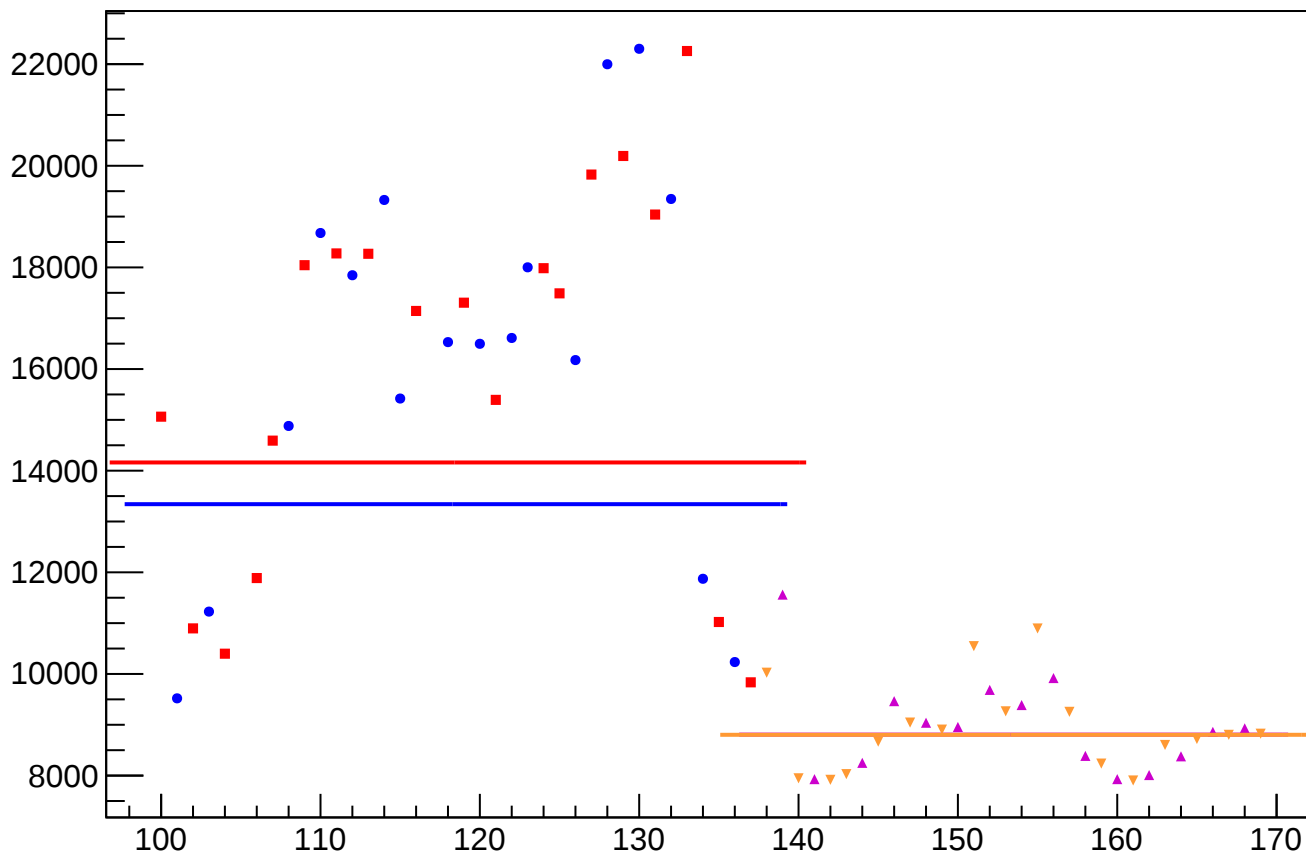
Right: 0.019 ± 3.854 χ^2/NDF : 41.3/35

In: -2.961 ± 2.335 χ^2/NDF : 38.5/31

Out: -10.783 ± 2.268 χ^2/NDF : 63.7/35

All: -6.987 ± 1.627 χ^2/NDF : 108.0/67

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8802.784 $\pm$ 1.759 χ^2/NDF :202867.0/16

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

Left In: 8806.421 $\pm$ 1.832 χ^2/NDF :196520.9/14

Left: 8804.529 $\pm$ 1.269 χ^2/NDF : 399389.9/31

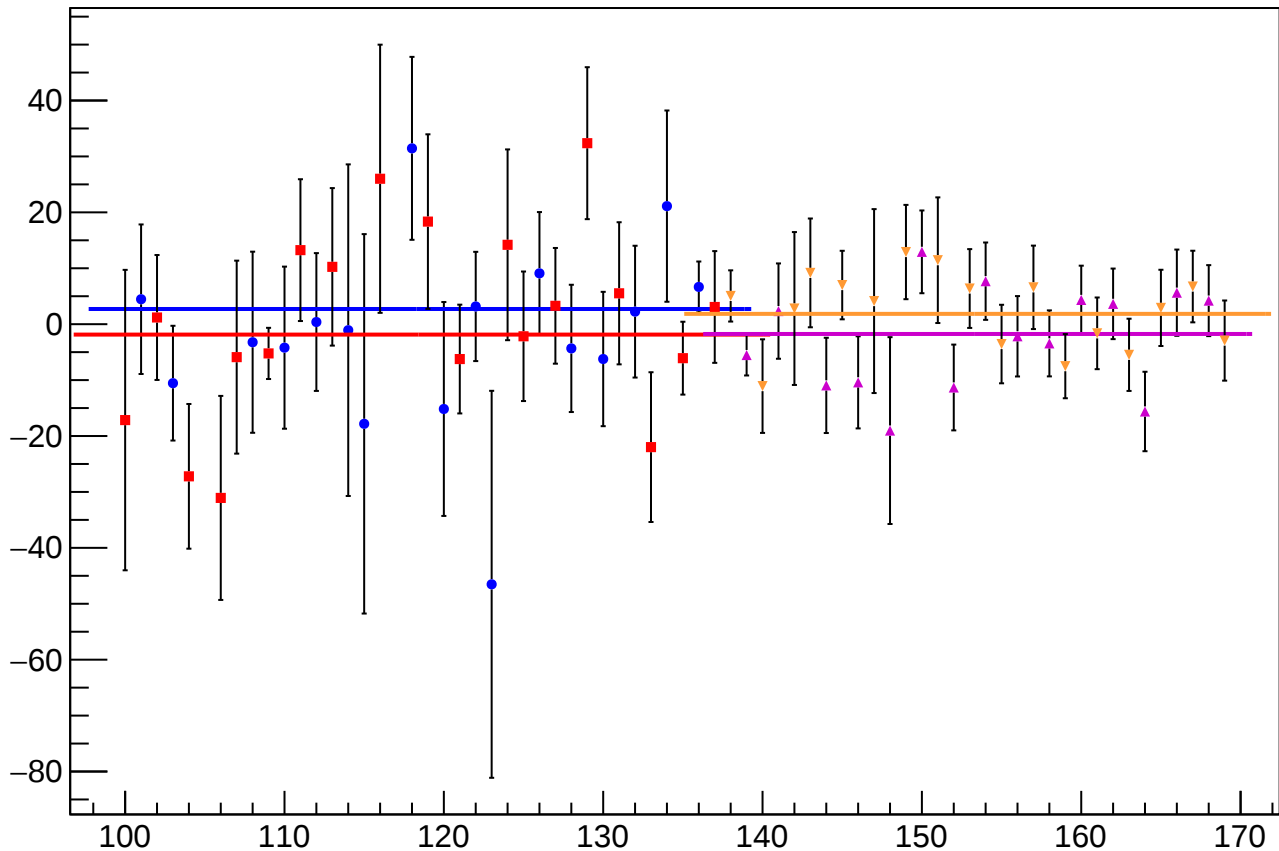
Right: 13742.695 $\pm$ 2.725 χ^2/NDF : 1999035.6/35

In: 9656.801 $\pm$ 1.651 χ^2/NDF :2389906.9/31

Out: 9710.960 $\pm$ 1.603 χ^2/NDF :2706884.3/35

All: 9684.678 $\pm$ 1.150 χ^2/NDF : 5097344.8/67

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 χ^2/NDF : 11.6/16

Left Out: 1.845 ± 1.734 χ^2/NDF : 13.3/16

Right Out: -1.861 ± 2.439 χ^2/NDF : 23.5/18

Left In: -1.751 ± 1.720 χ^2/NDF : 19.4/14

Left: 0.032 ± 1.221 χ^2/NDF : 34.9/31

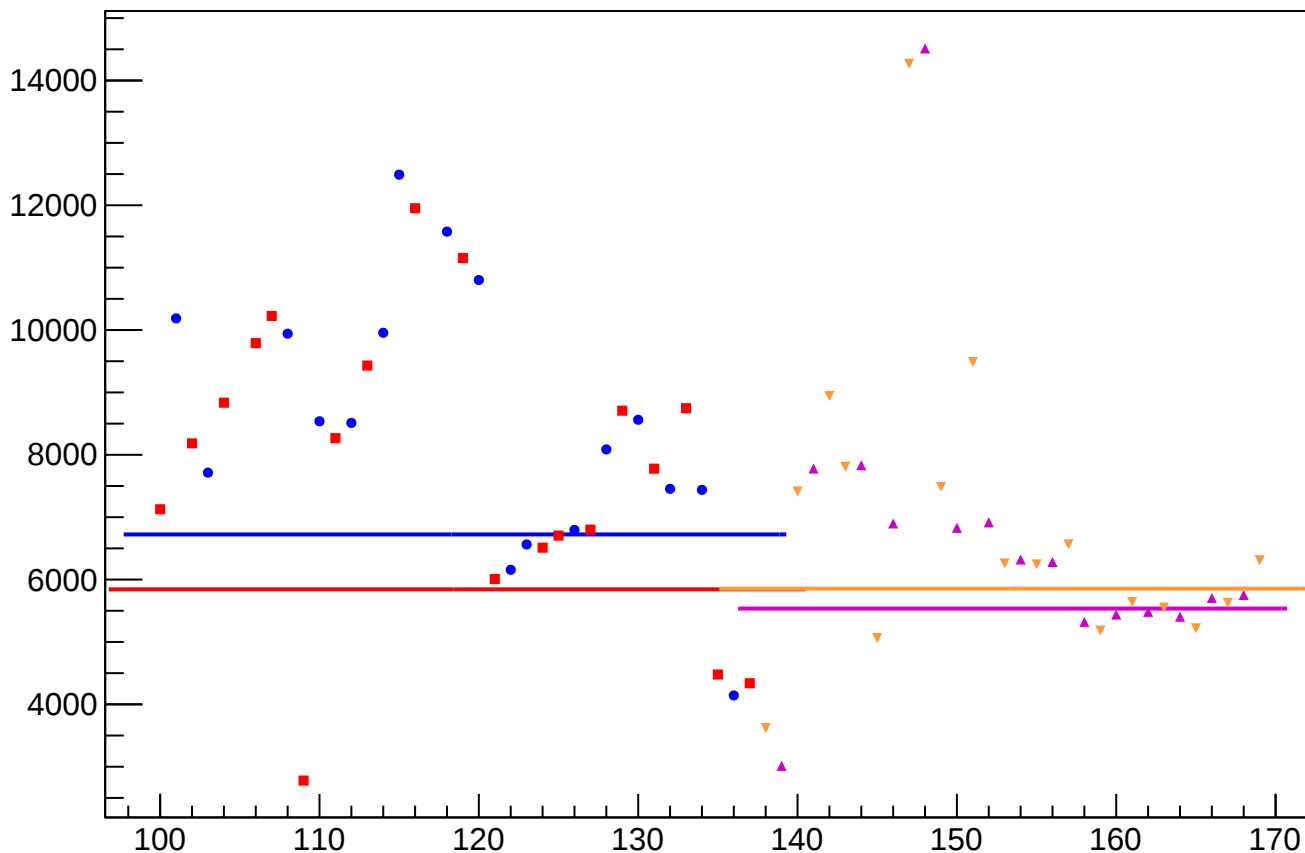
Right: 0.153 ± 1.825 χ^2/NDF : 36.7/35

In: -0.496 ± 1.458 χ^2/NDF : 32.9/31

Out: 0.601 ± 1.413 χ^2/NDF : 38.4/35

All: 0.069 ± 1.015 χ^2/NDF : 71.6/67

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5854.319+/-1.226 χ^2/NDF : 1661597.0/16

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: 5693.420+/-0.863 χ^2/NDF : 3744986.3/31

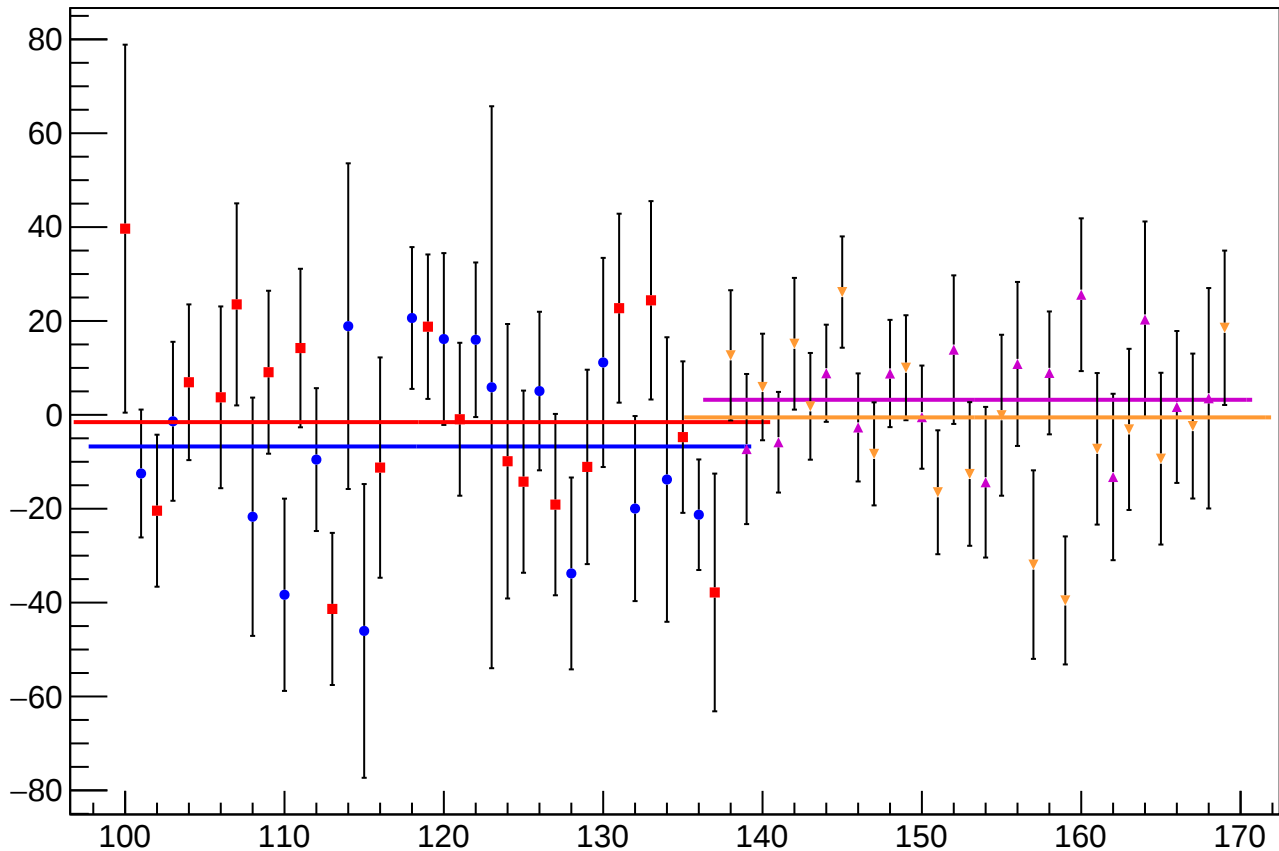
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5868.949+/-1.031 χ^2/NDF : 3709658.8/31

Out: 5850.797+/-0.999 χ^2/NDF : 3938845.4/35

All: 5859.587+/-0.718 χ^2/NDF : 7648663.9/67

diff_bpm11X_mean vs Slug, Sign Corrected



Left: 1.208 ± 2.455 $\chi^2/\text{NDF}: 31.6/31$

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: -0.914 ± 2.664 $\chi^2/\text{NDF}: 43.5/35$

All: -0.791 ± 1.934 $\chi^2/\text{NDF}: 70.8/67$

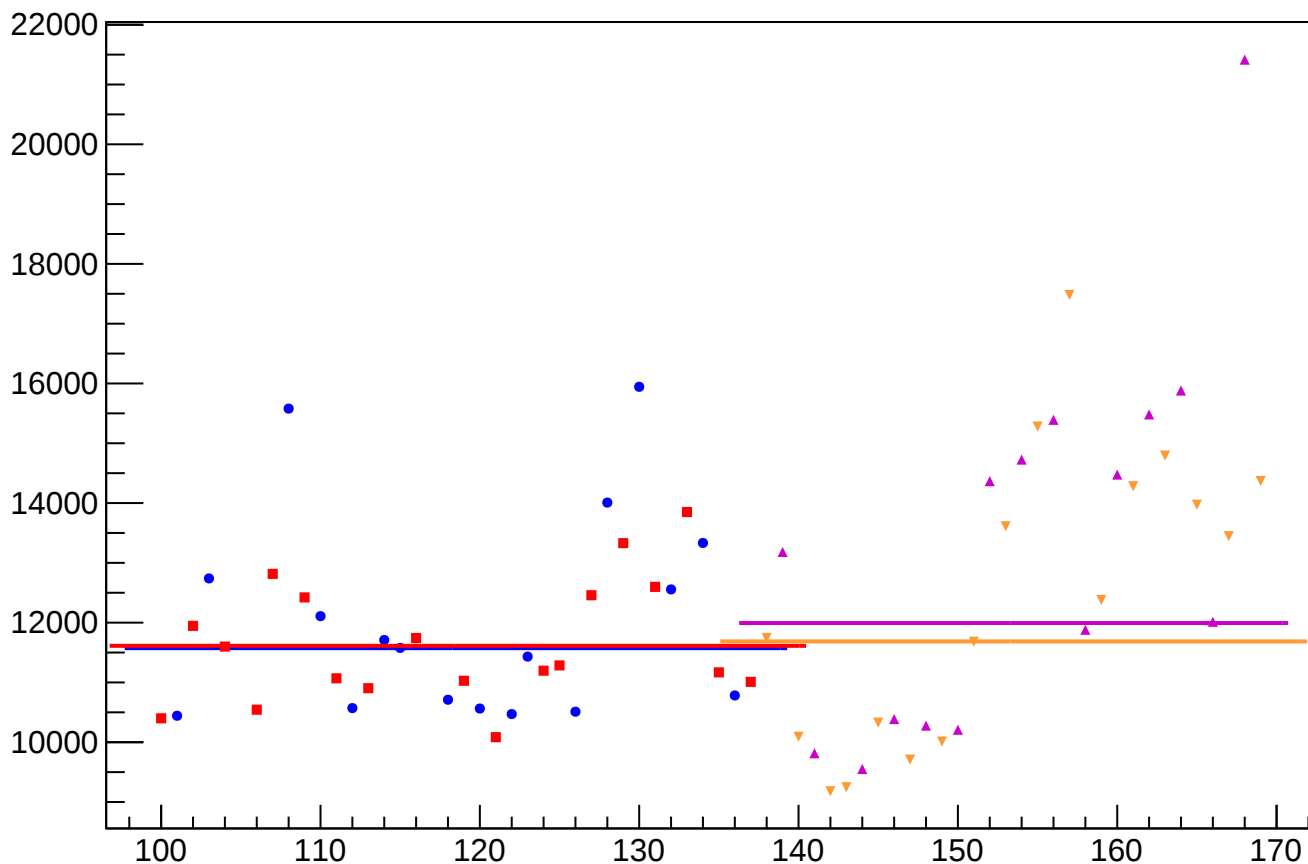
Right In: -6.736 ± 4.513 $\chi^2/\text{NDF}: 16.9/16$

Left Out: -0.539 ± 3.360 $\chi^2/\text{NDF}: 23.5/16$

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

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

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 11686.225+/-2.376 χ^2/NDF : 850009.2/16

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: 11829.453+/-1.736 χ^2/NDF : 1893508.5/31

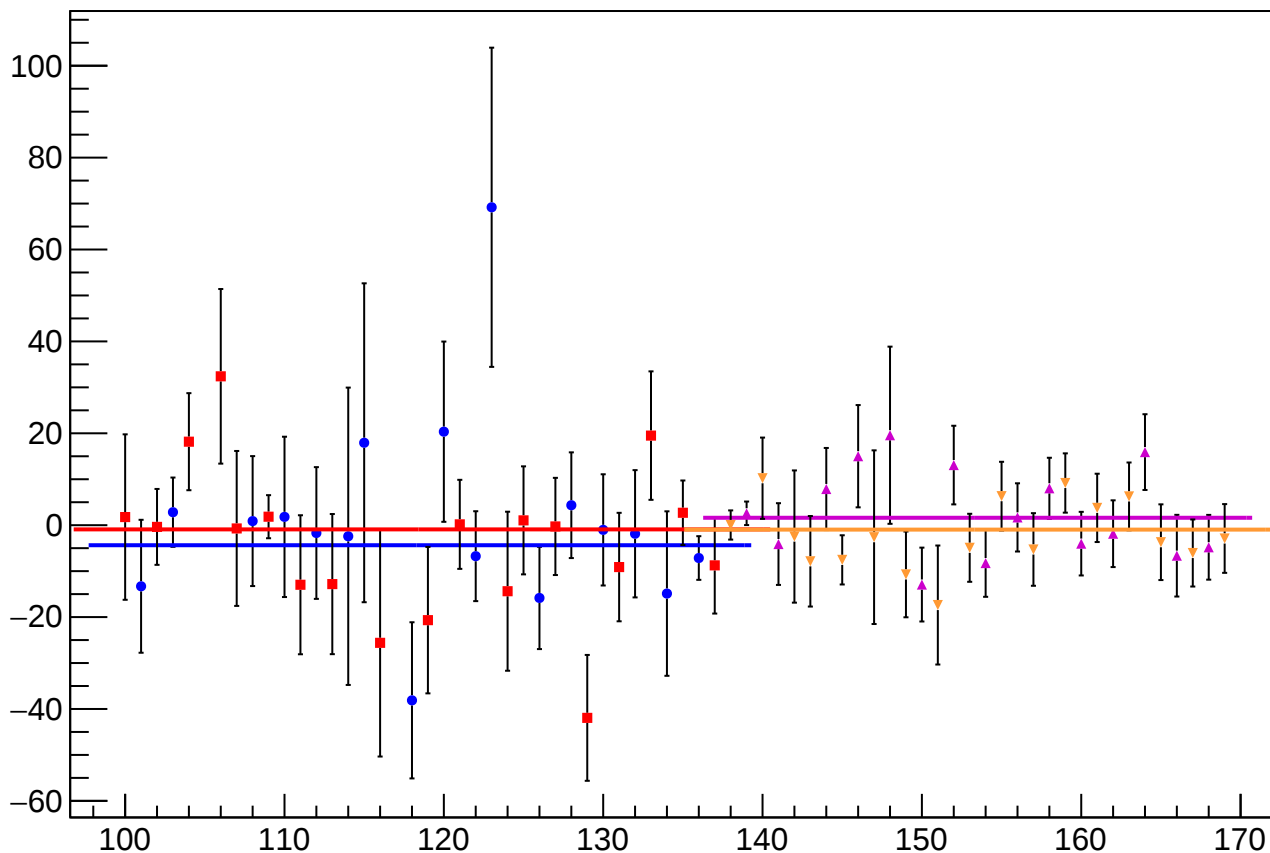
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

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

Out: 11658.745+/-1.884 χ^2/NDF : 944677.4/35

All: 11739.913+/-1.368 χ^2/NDF : 2233636.5/6

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: -0.961 ± 1.700 χ^2/NDF : 12.5/16

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

Left In: 1.615 ± 1.657 χ^2/NDF : 16.8/14

Left: 0.359 ± 1.187 χ^2/NDF : 30.4/31

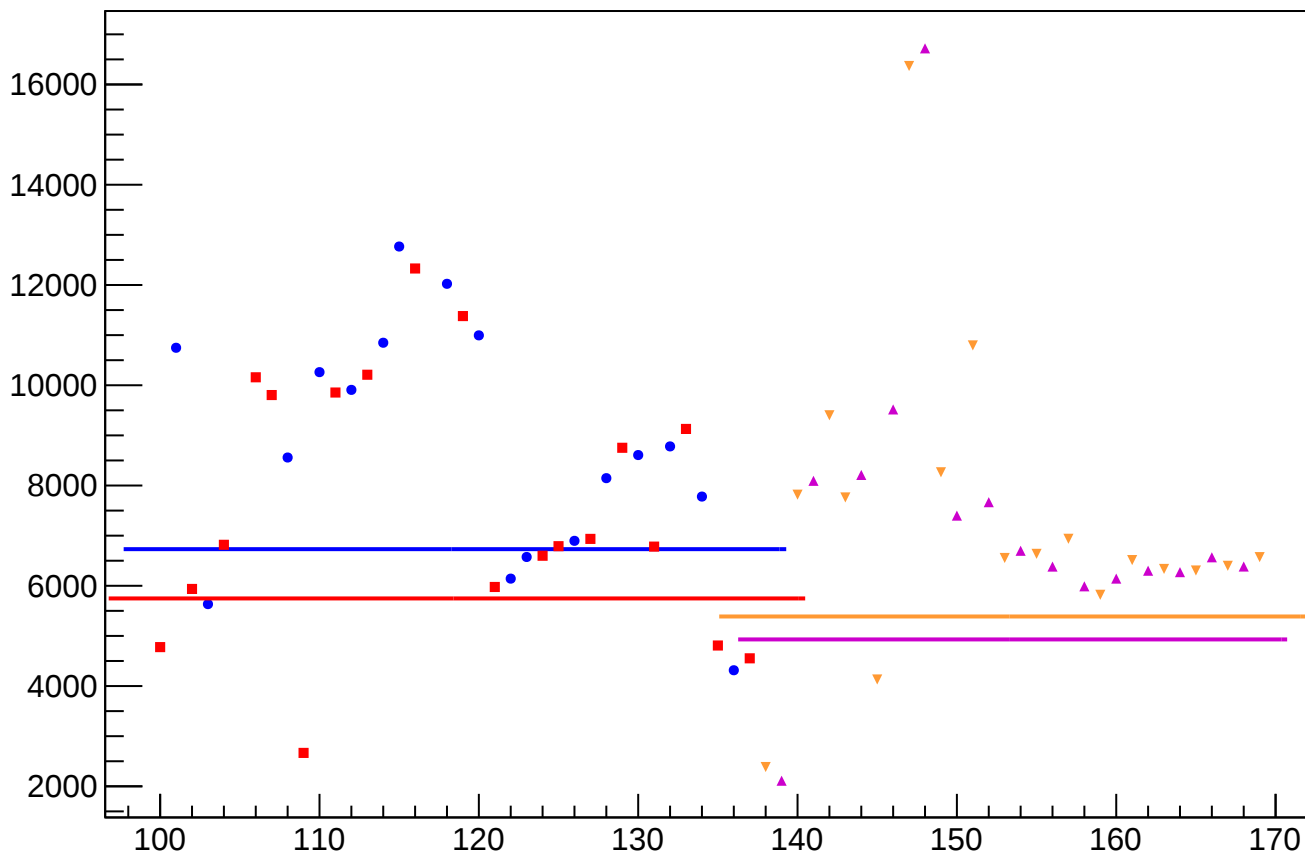
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: 0.045 ± 1.423 χ^2/NDF : 34.7/31

Out: -0.946 ± 1.392 χ^2/NDF : 36.0/35

All: -0.461 ± 0.995 χ^2/NDF : 70.9/67

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725+/-1.963 χ^2/NDF : 1445240.4/16

Left Out: 5387.682+/-1.202 χ^2/NDF : 3916743.4/16

Right Out: 5747.643+/-1.716 χ^2/NDF : 2162236.7/18

Left In: 4930.072+/-1.172 χ^2/NDF : 5008175.7/14

Left: 5153.055+/-0.839 χ^2/NDF : 8999242.3/31

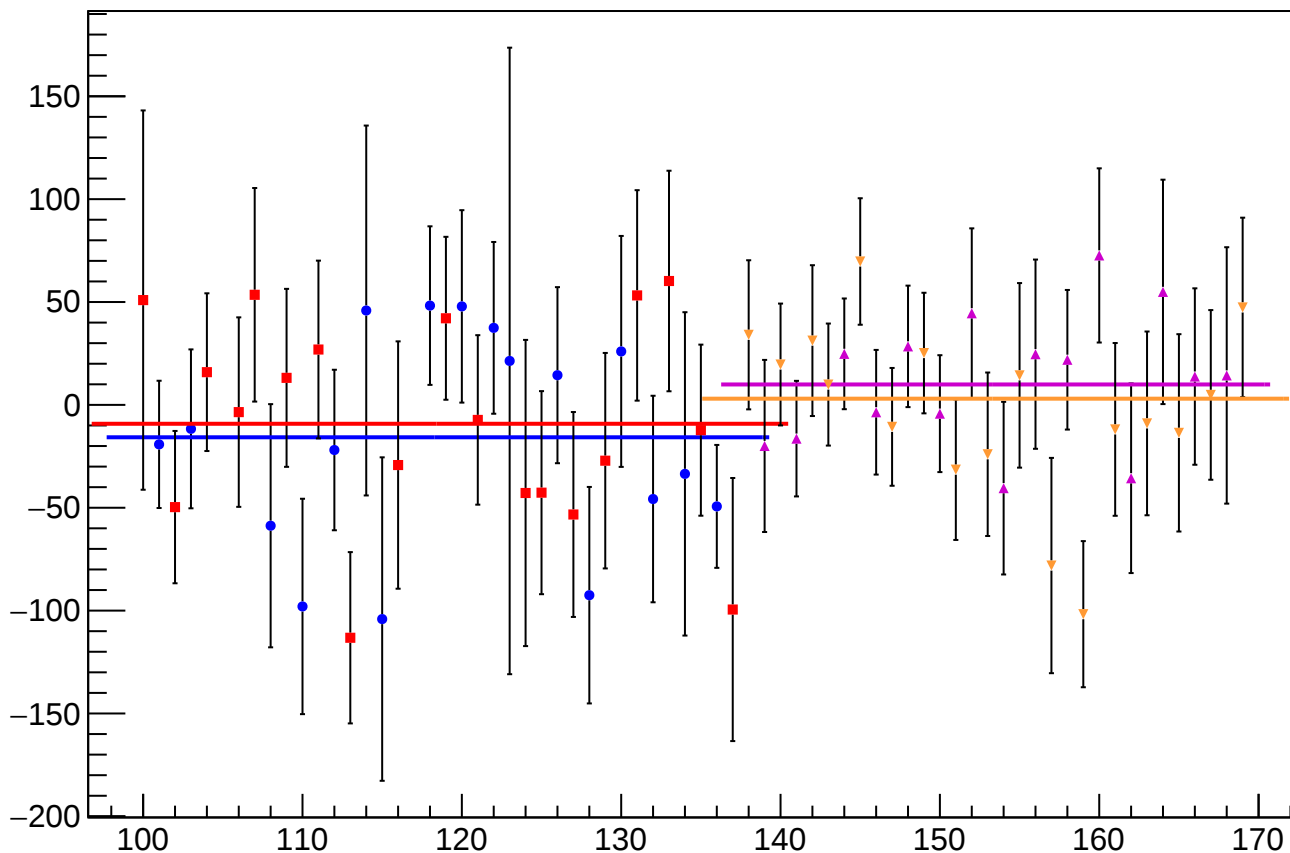
Right: 6173.310+/-1.292 χ^2/NDF : 3749669.1/35

In: 5403.050+/-1.006 χ^2/NDF : 7073754.6/31

Out: 5506.199+/-0.984 χ^2/NDF : 6108511.9/35

All: 5455.752+/-0.704 χ^2/NDF : 13187636.7/66

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 3.017 $\pm$ 8.775 χ^2/NDF :21.2/16

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: 6.241 $\pm$ 6.409 χ^2/NDF : 30.3/31

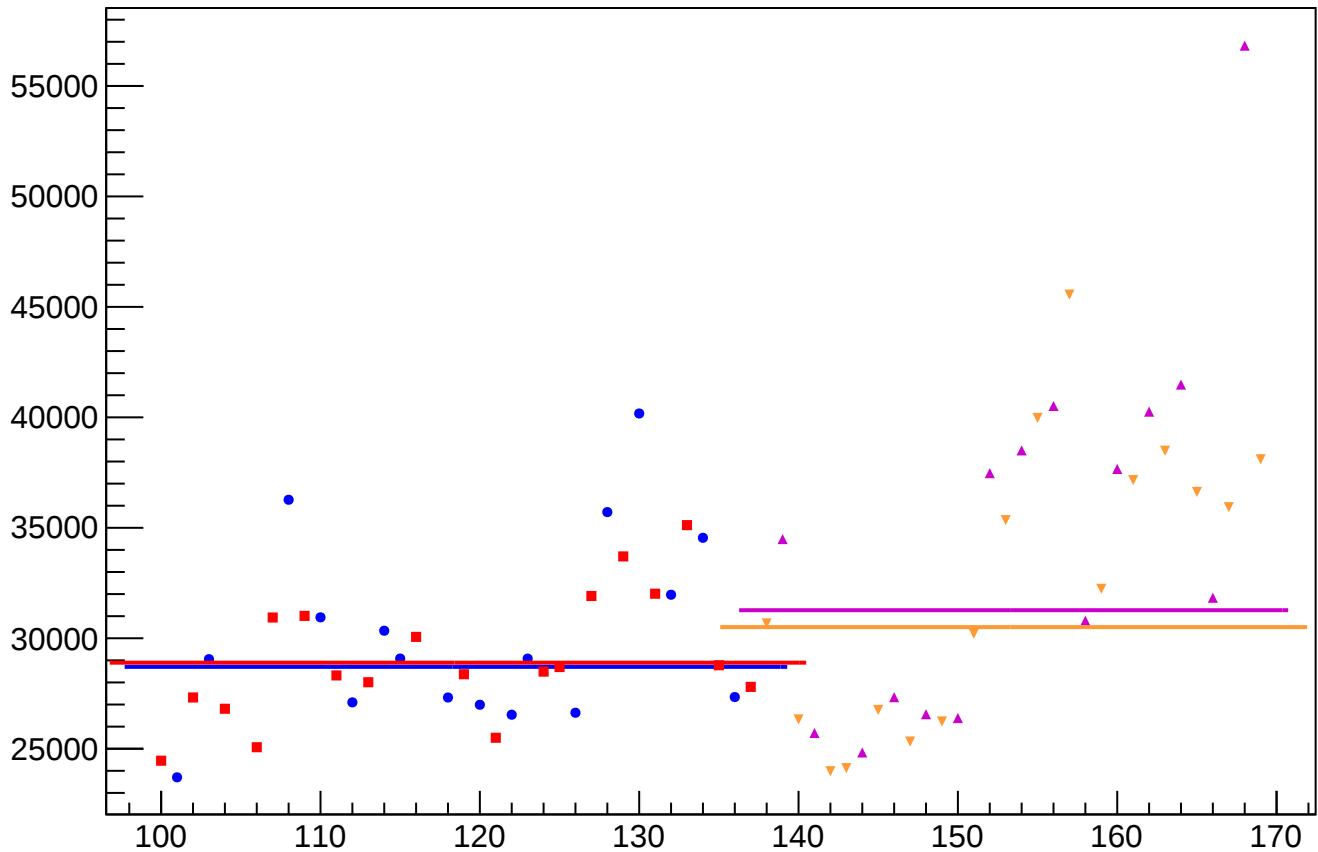
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

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

Out: -1.785 $\pm$ 6.833 χ^2/NDF :41.2/35

All: -1.249 $\pm$ 4.954 χ^2/NDF : 69.0/67

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925 χ^2/NDF : 250992.5/16

Left Out: 30505.542+/-6.205 χ^2/NDF : 864683.3/16

Right Out: 28895.535+/-7.700 χ^2/NDF : 111212.6/18

Left In: 31269.914+/-6.635 χ^2/NDF : 1062591.7/14

Left: 30862.163+/-4.532 χ^2/NDF : 1934354.7/31

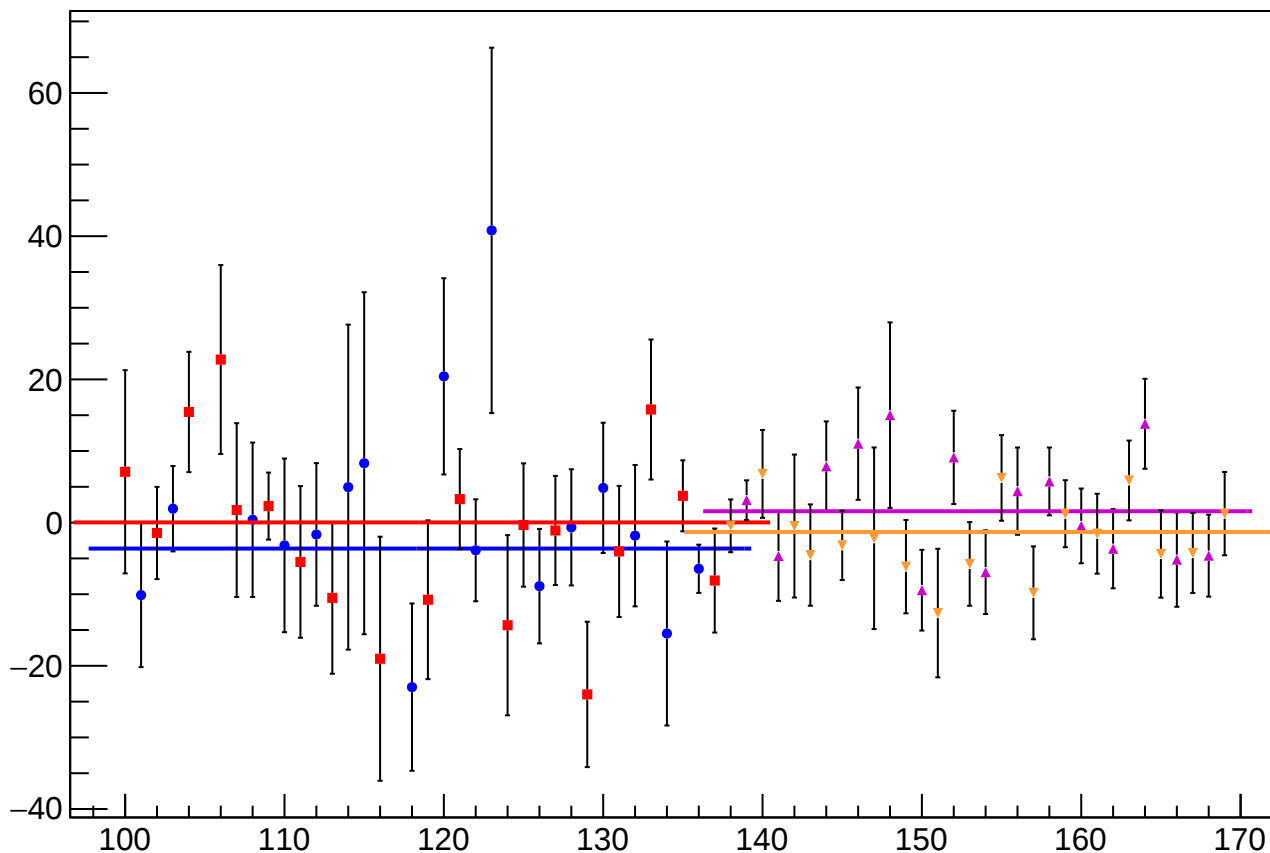
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

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

Out: 29871.629+/-4.831 χ^2/NDF : 1002402.9/35

All: 30033.583+/-3.503 χ^2/NDF : 2379912.6/66

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -1.305 ± 1.422 χ^2/NDF : 10.9/16

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: 0.160 ± 0.999 χ^2/NDF : 33.1/31

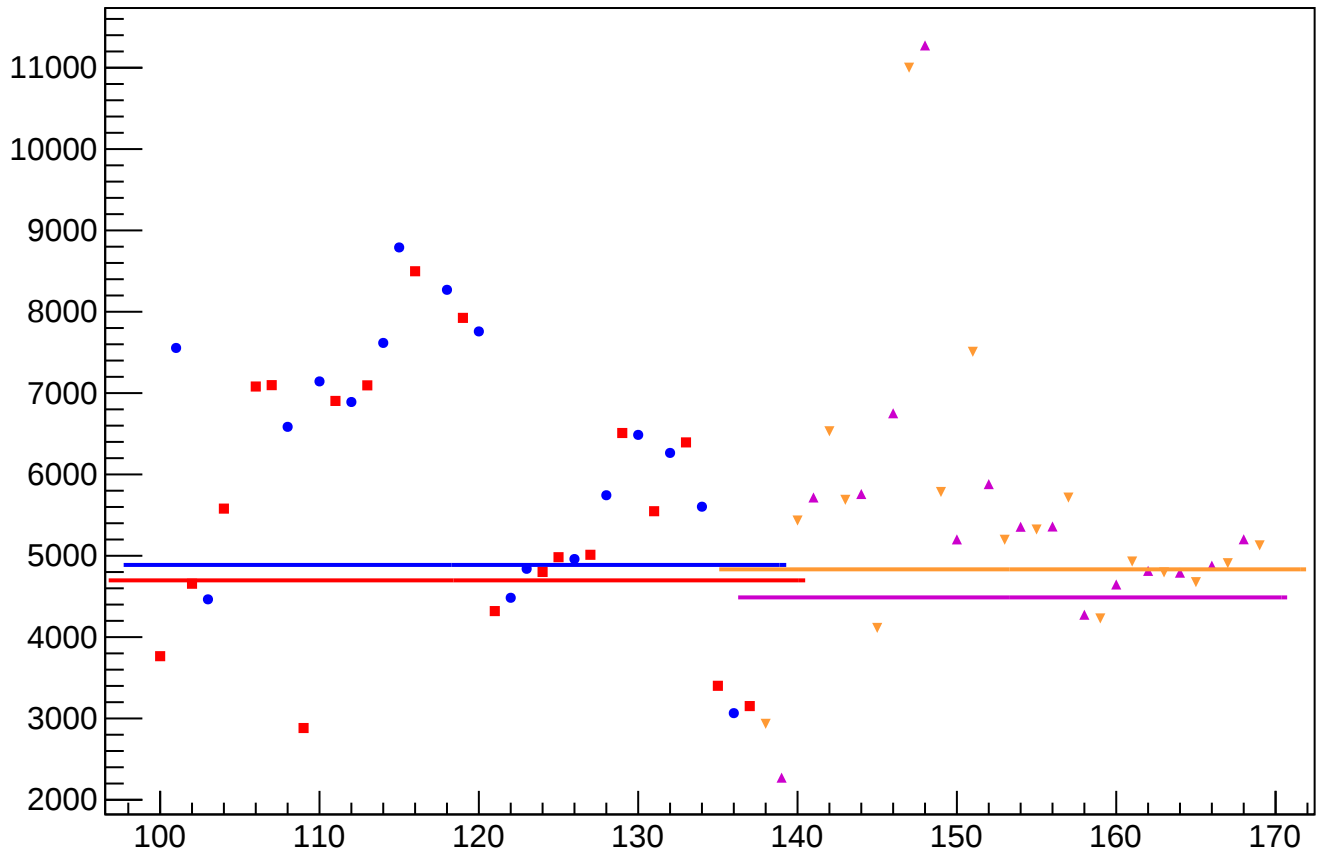
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: -0.126 ± 1.149 χ^2/NDF : 38.4/31

Out: -0.824 ± 1.136 χ^2/NDF : 33.3/35

All: -0.479 ± 0.808 χ^2/NDF : 71.9/67

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4833.249 $\pm$ 1.006 χ^2 /NDF: 1473749.0/16

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: 4658.358 $\pm$ 0.706 χ^2 /NDF: 3960188.3/31

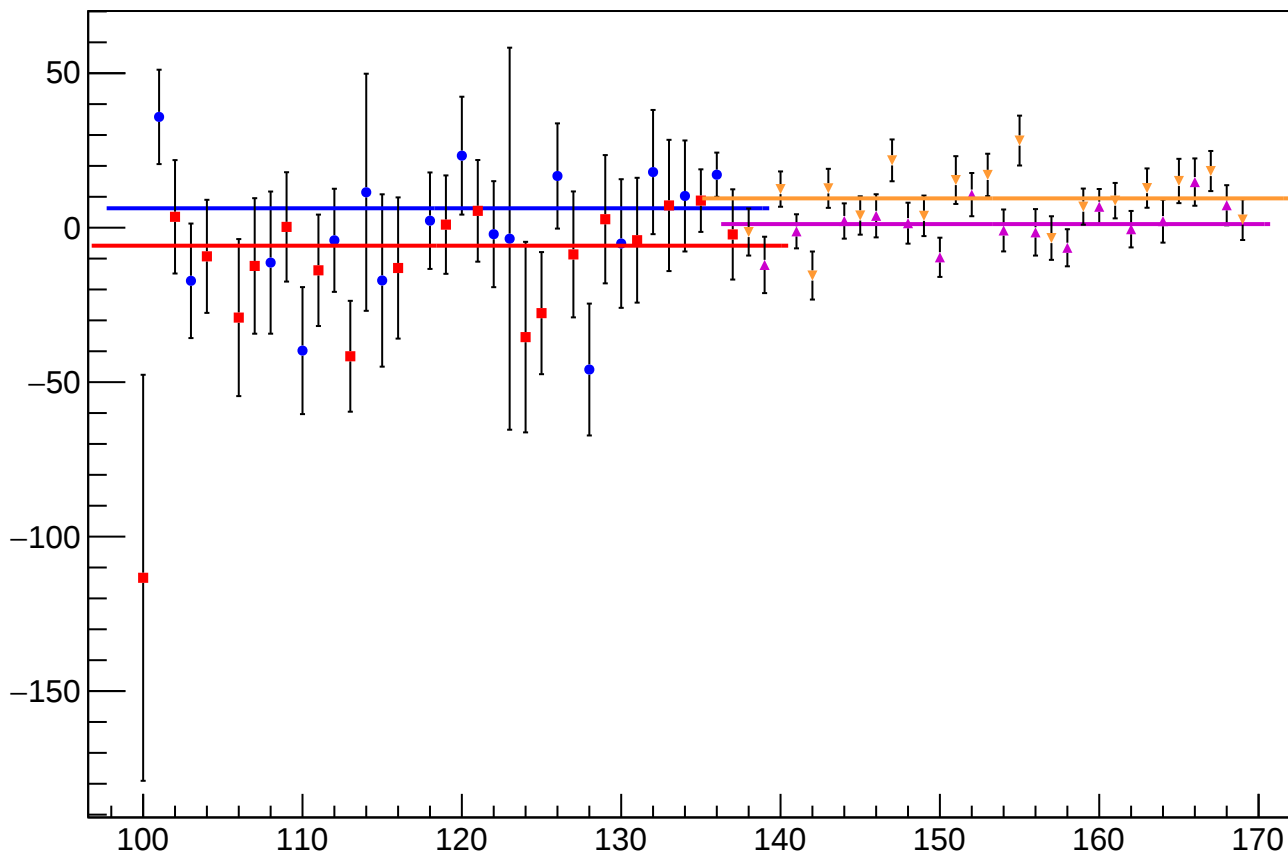
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

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

Out: 4784.258 $\pm$ 0.804 χ^2 /NDF: 2793436.3/35

All: 4702.743 $\pm$ 0.571 χ^2 /NDF: 6703539.8/67

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 $\chi^2/\text{NDF}: 22.5/16$

Left Out: 9.487 ± 1.613 $\chi^2/\text{NDF}: 32.3/16$

Right Out: -5.828 ± 4.219 $\chi^2/\text{NDF}: 13.8/18$

Left In: 1.165 ± 1.686 $\chi^2/\text{NDF}: 14.1/14$

Left: 5.511 ± 1.166 $\chi^2/\text{NDF}: 59.1/31$

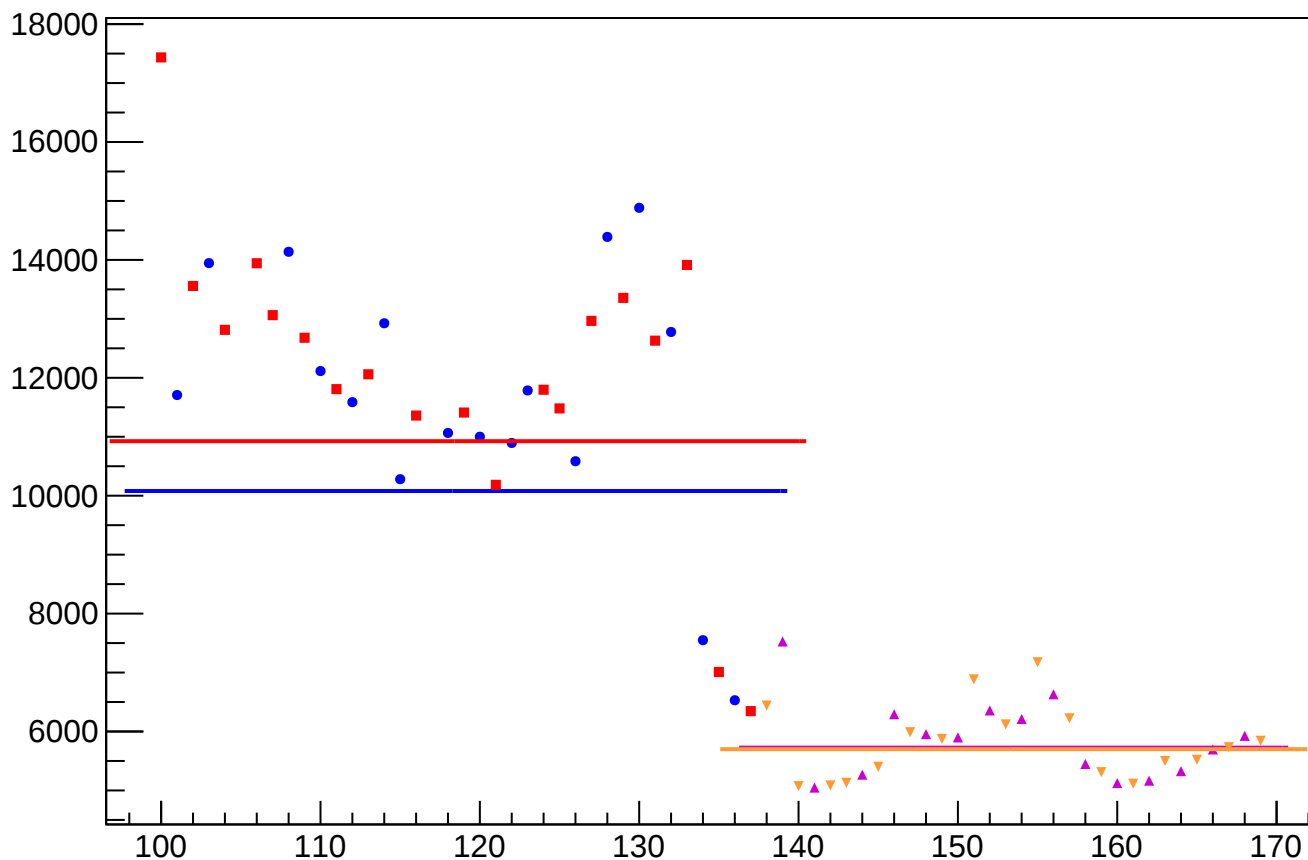
Right: 0.454 ± 2.927 $\chi^2/\text{NDF}: 40.6/35$

In: 1.917 ± 1.558 $\chi^2/\text{NDF}: 38.0/31$

Out: 7.534 ± 1.507 $\chi^2/\text{NDF}: 57.6/35$

All: 4.819 ± 1.083 $\chi^2/\text{NDF}: 102.3/67$

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5699.855 $\pm$ 1.141 χ^2 /NDF:247627.0/16

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: 5712.360 $\pm$ 0.824 χ^2 /NDF: 494029.2/31

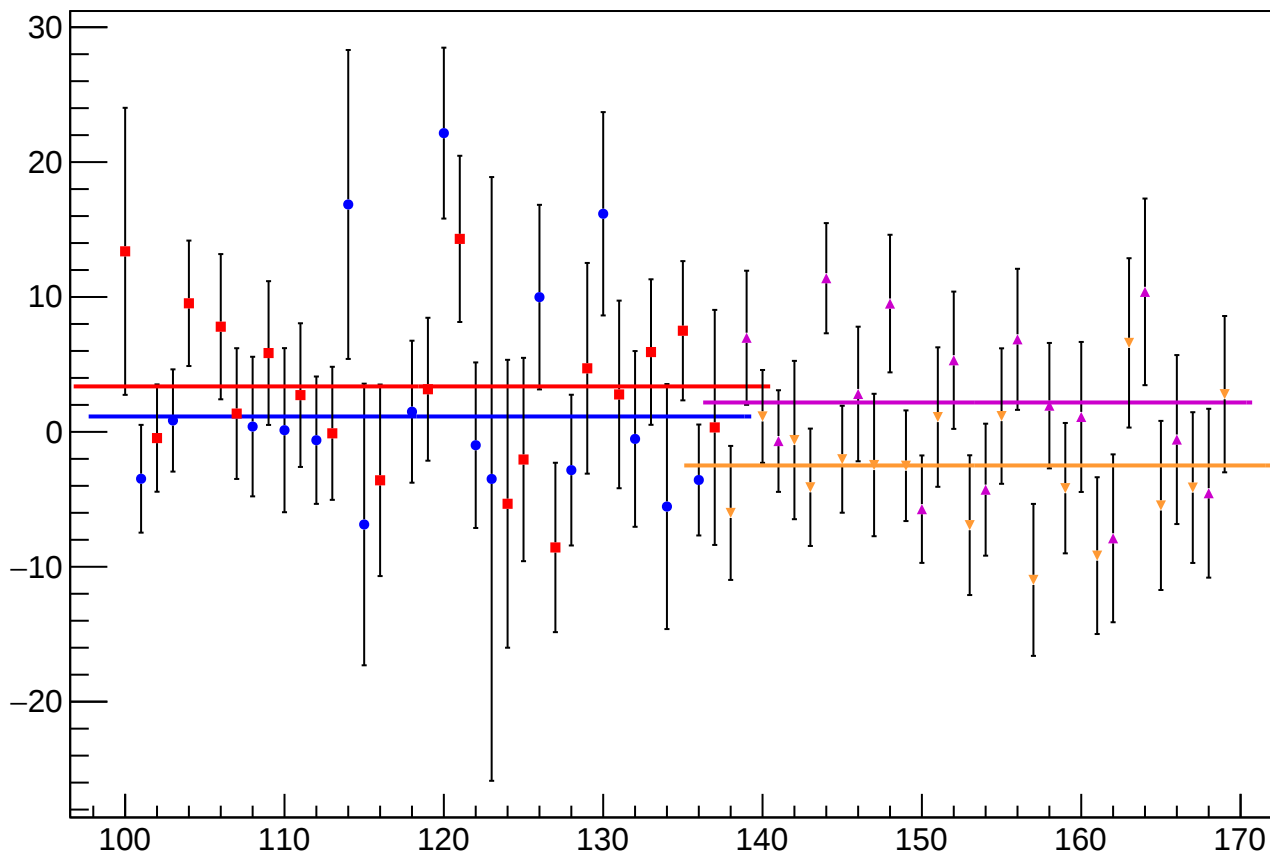
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

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

Out: 6366.137 $\pm$ 1.065 χ^2 /NDF:3691951.8/35

All: 6365.832 $\pm$ 0.766 χ^2 /NDF: 6890557.3/67

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.142 ± 1.395 χ^2/NDF : 23.2/16

Left Out: -2.489 ± 1.198 χ^2/NDF : 10.6/16

Right Out: 3.371 ± 1.333 χ^2/NDF : 15.1/18

Left In: 2.179 ± 1.285 χ^2/NDF : 21.0/14

Left: -0.317 ± 0.876 χ^2/NDF : 38.6/31

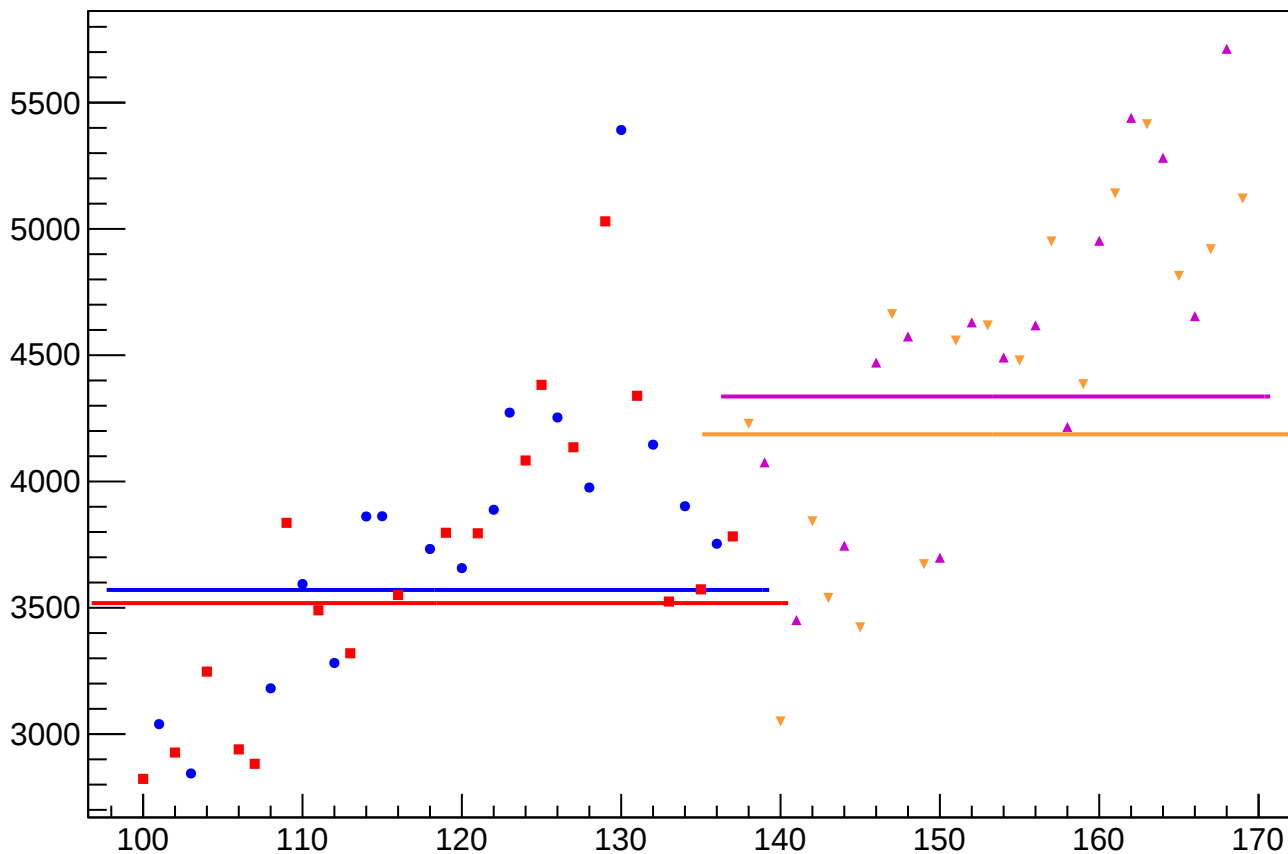
Right: 2.307 ± 0.964 χ^2/NDF : 39.6/35

In: 1.703 ± 0.945 χ^2/NDF : 44.5/31

Out: 0.130 ± 0.891 χ^2/NDF : 36.3/35

All: 0.870 ± 0.648 χ^2/NDF : 82.3/67

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.707+/-0.987 χ^2/NDF : 309568.0/16

Left Out: 4186.917+/-0.847 χ^2/NDF : 699214.4/16

Right Out: 3518.621+/-0.943 χ^2/NDF : 293227.8/18

Left In: 4336.535+/-0.908 χ^2/NDF : 457333.9/14

Left: 4256.512+/-0.620 χ^2/NDF : 1171056.6/31

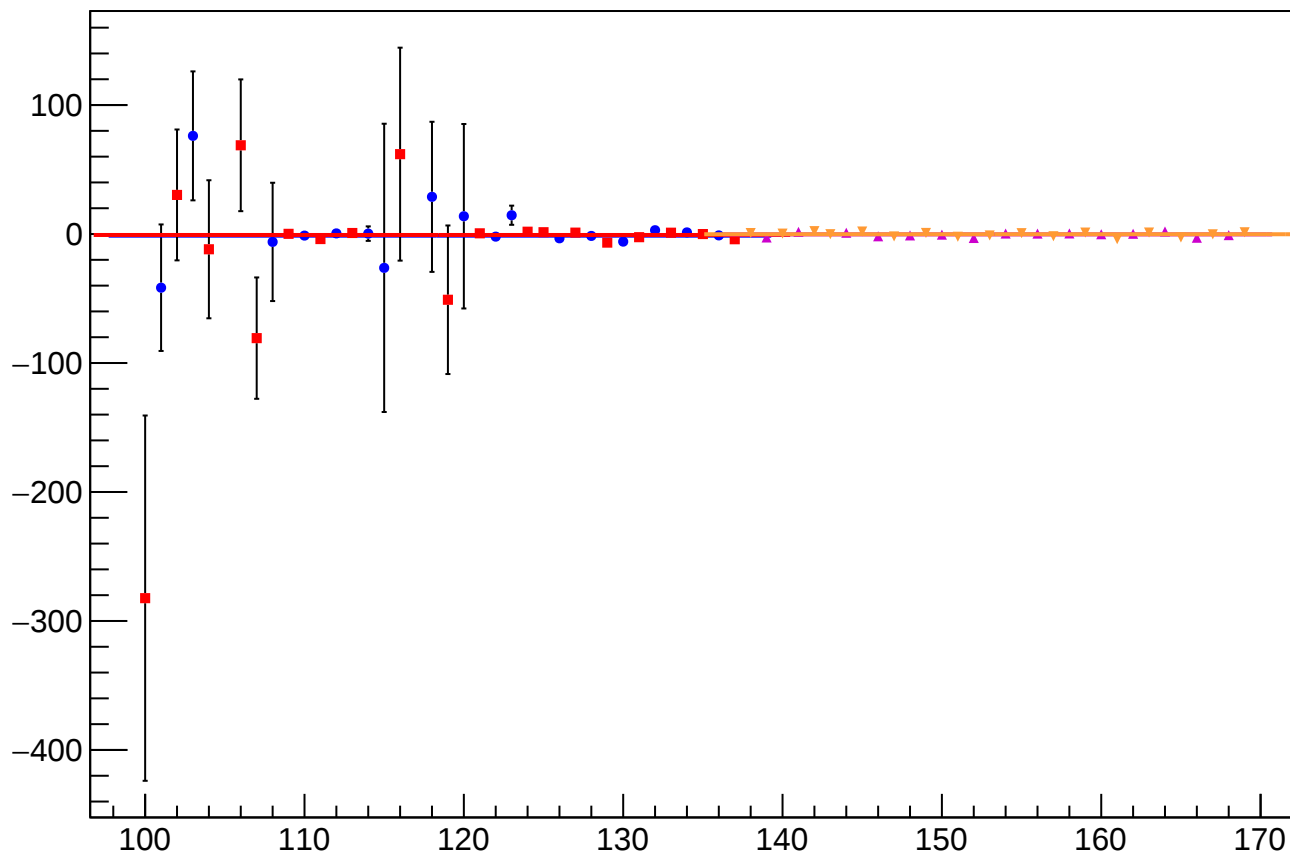
Right: 3543.480+/-0.682 χ^2/NDF : 604252.9/35

In: 3985.140+/-0.668 χ^2/NDF : 1092994.7/31

Out: 3888.325+/-0.630 χ^2/NDF : 1270474.7/35

All: 3933.890+/-0.458 χ^2/NDF : 2374579.9/67

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.165 ± 0.297 χ^2/NDF : 31.7/16

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: -0.218 ± 0.214 χ^2/NDF : 53.9/31

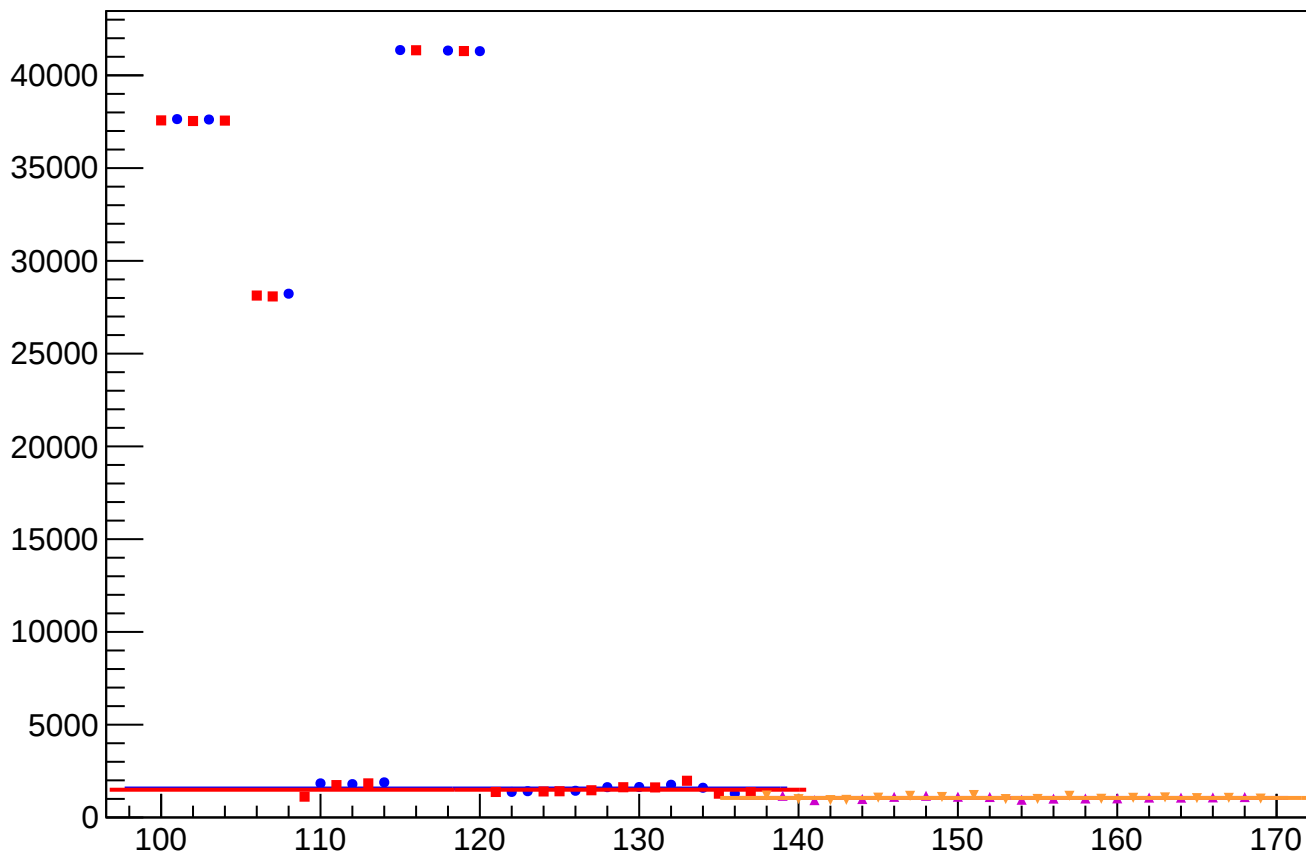
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.420 ± 0.285 χ^2/NDF : 40.0/31

Out: -0.249 ± 0.274 χ^2/NDF : 54.3/35

All: -0.331 ± 0.198 χ^2/NDF : 94.4/67

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1051.900 $\pm$ 0.210 χ^2 /NDF: 131645.5/16

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: 1051.787 $\pm$ 0.151 χ^2 /NDF: 233561.0/31

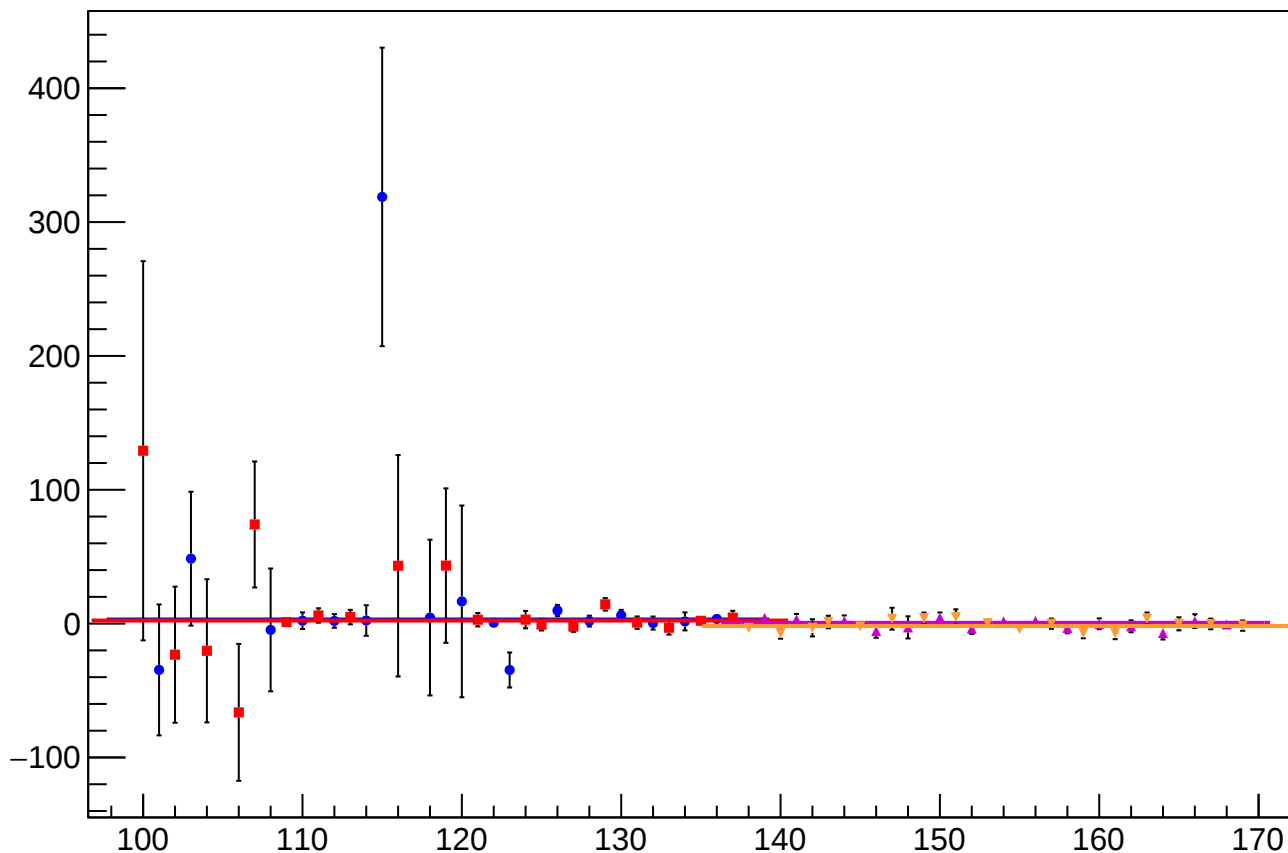
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

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

Out: 1117.636 $\pm$ 0.194 χ^2 /NDF: 5686179.4/35

All: 1121.441 $\pm$ 0.140 χ^2 /NDF: 11328840.4/6

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 $\pm$ 1.323 χ^2/NDF : 21.9/16

Left Out: -1.753 $\pm$ 0.973 χ^2/NDF :12.1/16

Right Out: 2.306 $\pm$ 1.235 χ^2/NDF : 16.9/18

Left In: 0.611 $\pm$ 1.021 χ^2/NDF :10.7/14

Left: -0.628 $\pm$ 0.704 χ^2/NDF : 25.6/31

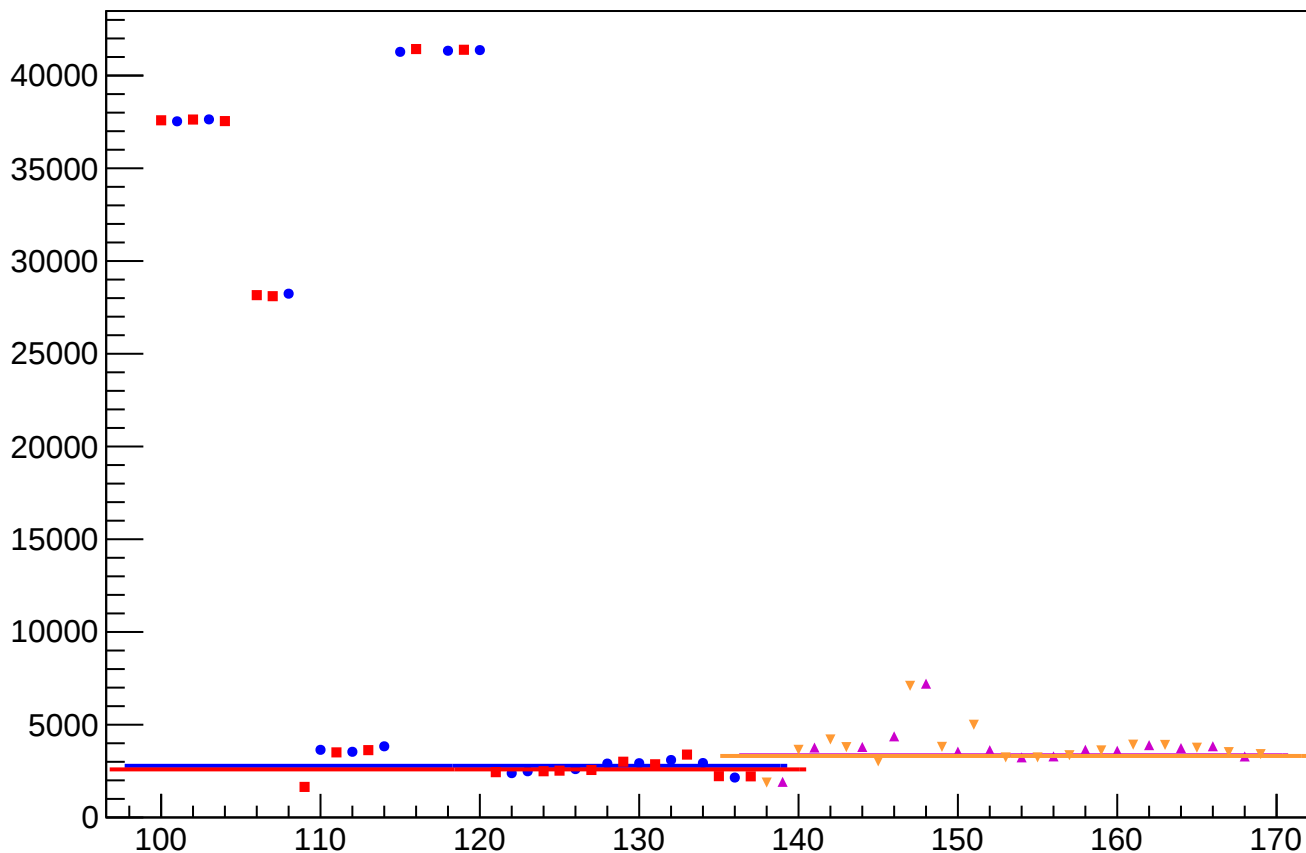
Right: 2.664 $\pm$ 0.903 χ^2/NDF : 39.0/35

In: 1.530 $\pm$ 0.808 χ^2/NDF :34.8/31

Out: -0.198 $\pm$ 0.764 χ^2/NDF :35.7/35

All: 0.618 $\pm$ 0.555 χ^2/NDF : 72.9/67

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3315.544+/-0.688 χ^2/NDF : 1618061.0/16

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: 3332.756+/-0.498 χ^2/NDF : 3008390.7/31

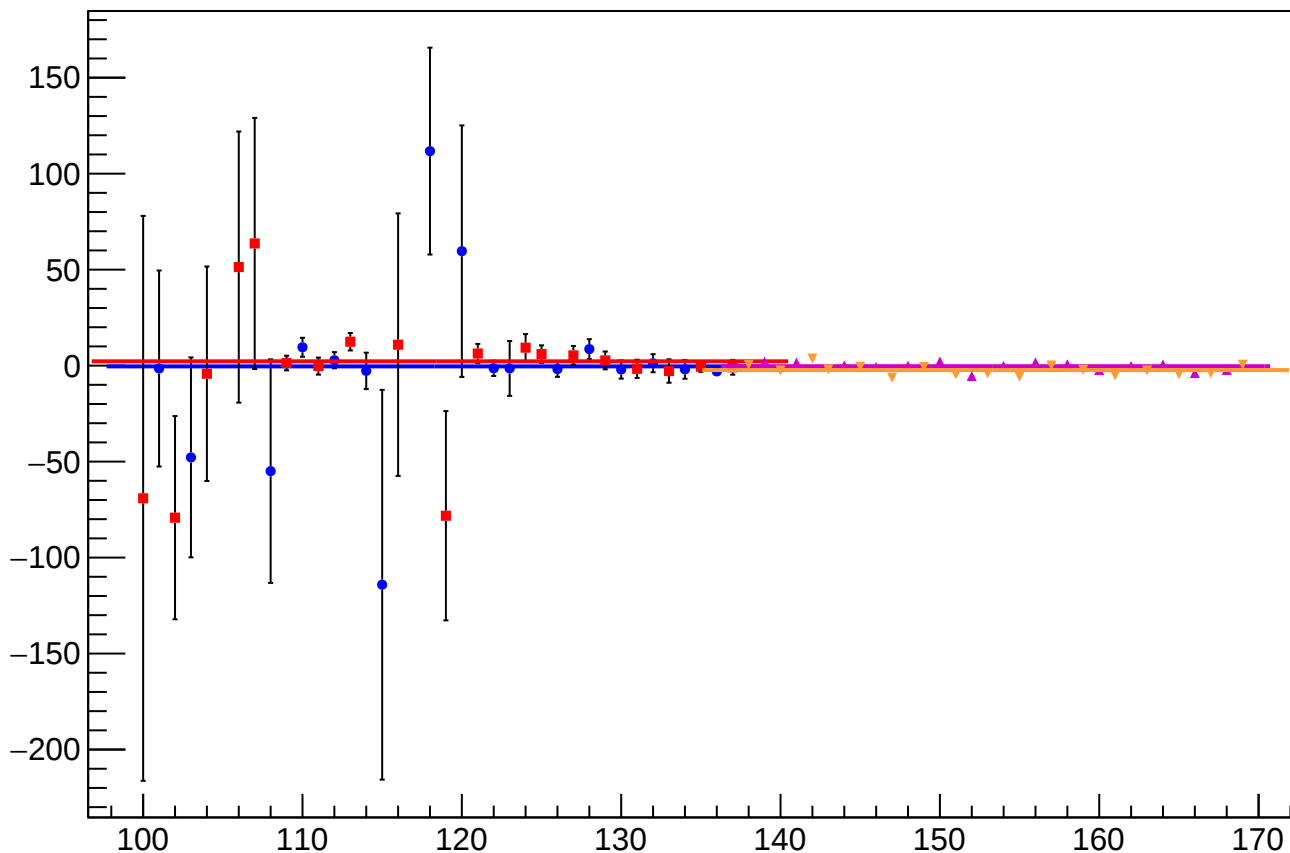
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

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

Out: 3038.091+/-0.540 χ^2/NDF : 6889633.0/35

All: 3086.118+/-0.393 χ^2/NDF : 13103606.0/66

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -2.331 ± 0.468 χ^2/NDF : 26.9/16

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: -1.363 ± 0.338 χ^2/NDF : 53.0/31

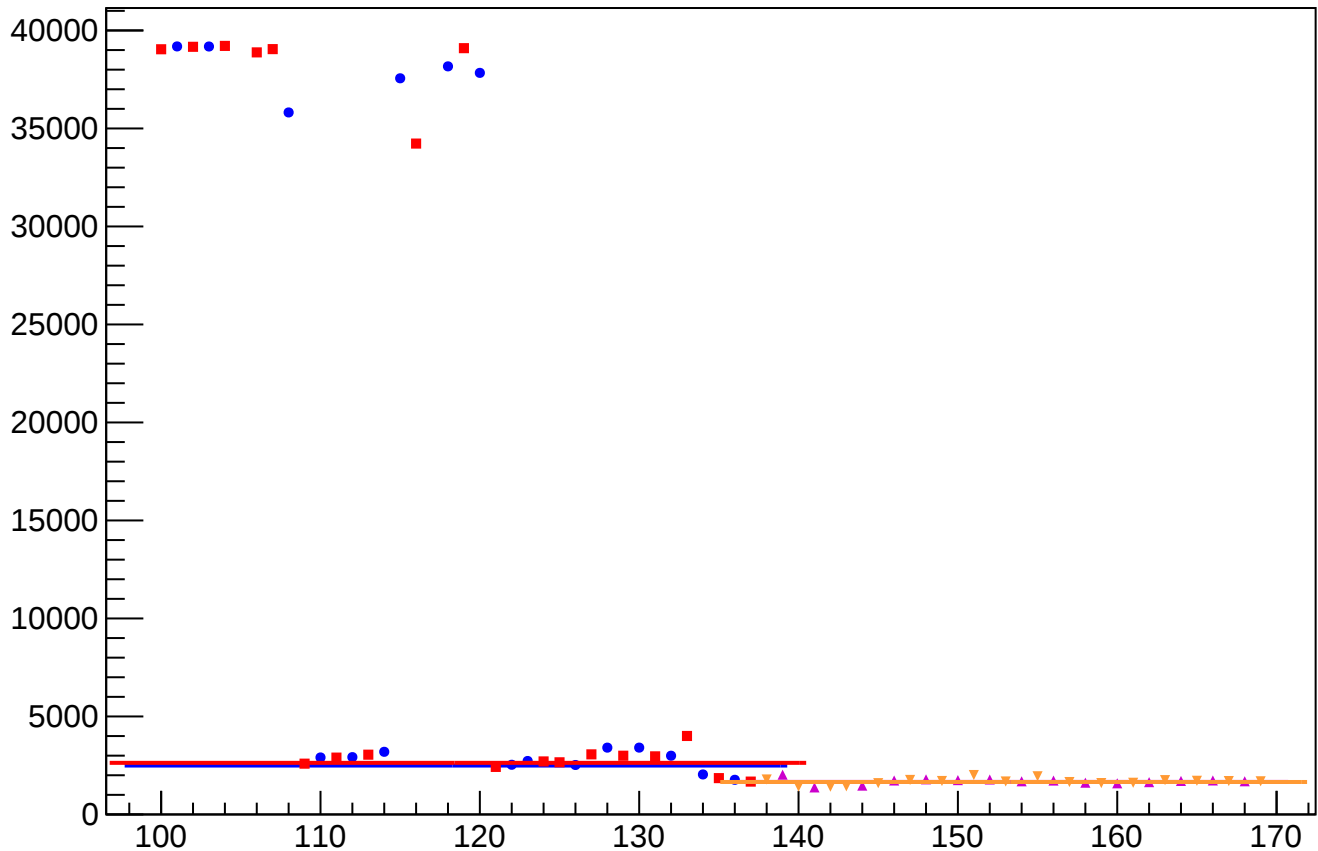
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.324 ± 0.453 χ^2/NDF : 35.4/31

Out: -1.765 ± 0.438 χ^2/NDF : 56.1/35

All: -1.068 ± 0.315 χ^2/NDF : 96.8/67

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603 $\pm$ 0.861 χ^2 /NDF: 4882334.6/16

Left Out: 1656.694 $\pm$ 0.331 χ^2 /NDF: 213035.0/16

Right Out: 2633.244 $\pm$ 0.881 χ^2 /NDF: 4860512.6/18

Left In: 1659.817 $\pm$ 0.345 χ^2 /NDF: 177265.1/14

Left: 1658.190 $\pm$ 0.239 χ^2 /NDF: 390342.7/31

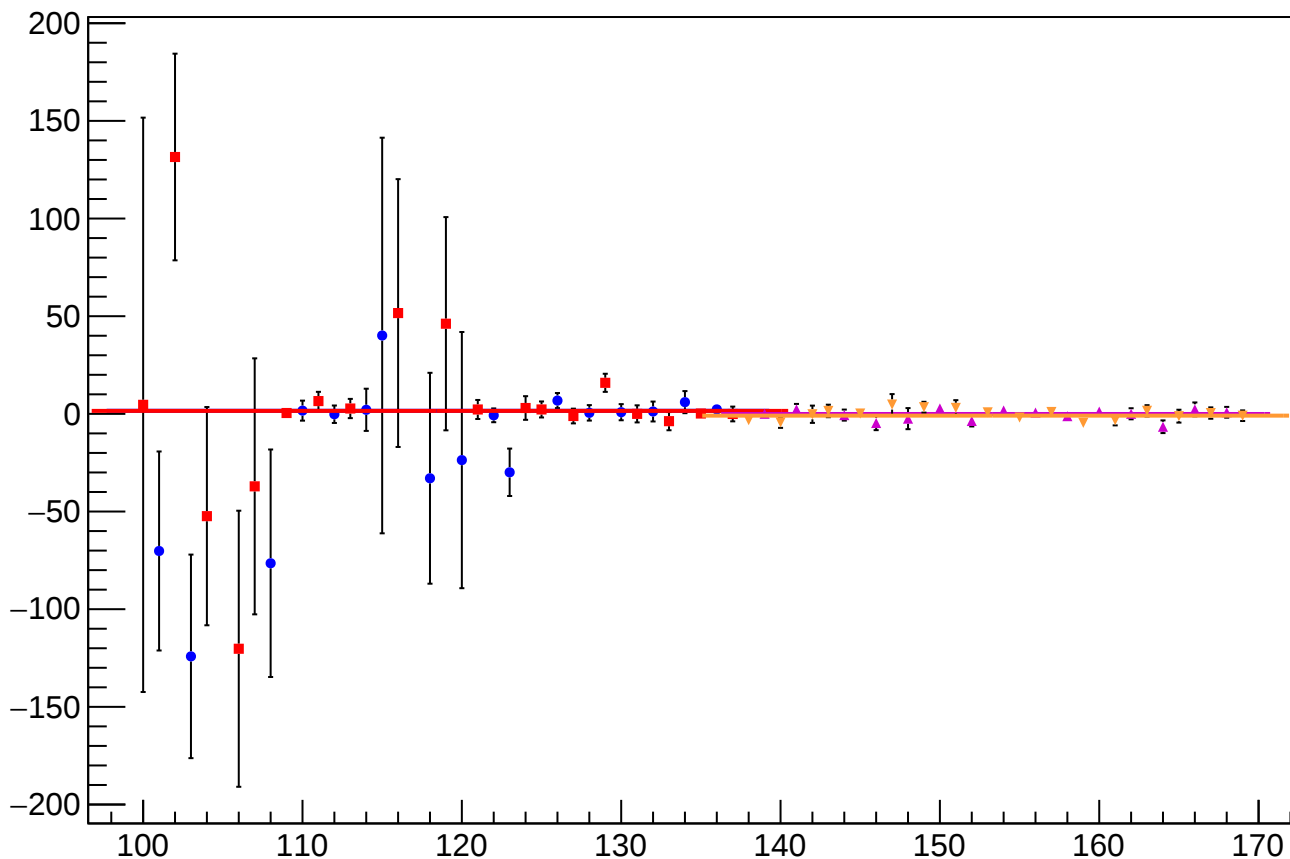
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1775.553 $\pm$ 0.320 χ^2 /NDF: 5871147.7/31

Out: 1777.507 $\pm$ 0.310 χ^2 /NDF: 6150219.6/35

All: 1776.563 $\pm$ 0.223 χ^2 /NDF: 12021386.5/66

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.576 $\pm$ 1.143 χ^2 /NDF: 20.3/16

Left Out: -0.907 $\pm$ 0.643 χ^2 /NDF:14.8/16

Right Out: 1.524 $\pm$ 1.062 χ^2 /NDF: 25.0/18

Left In: -0.062 $\pm$ 0.653 χ^2 /NDF:11.2/14

Left: -0.491 $\pm$ 0.458 χ^2 /NDF: 26.8/31

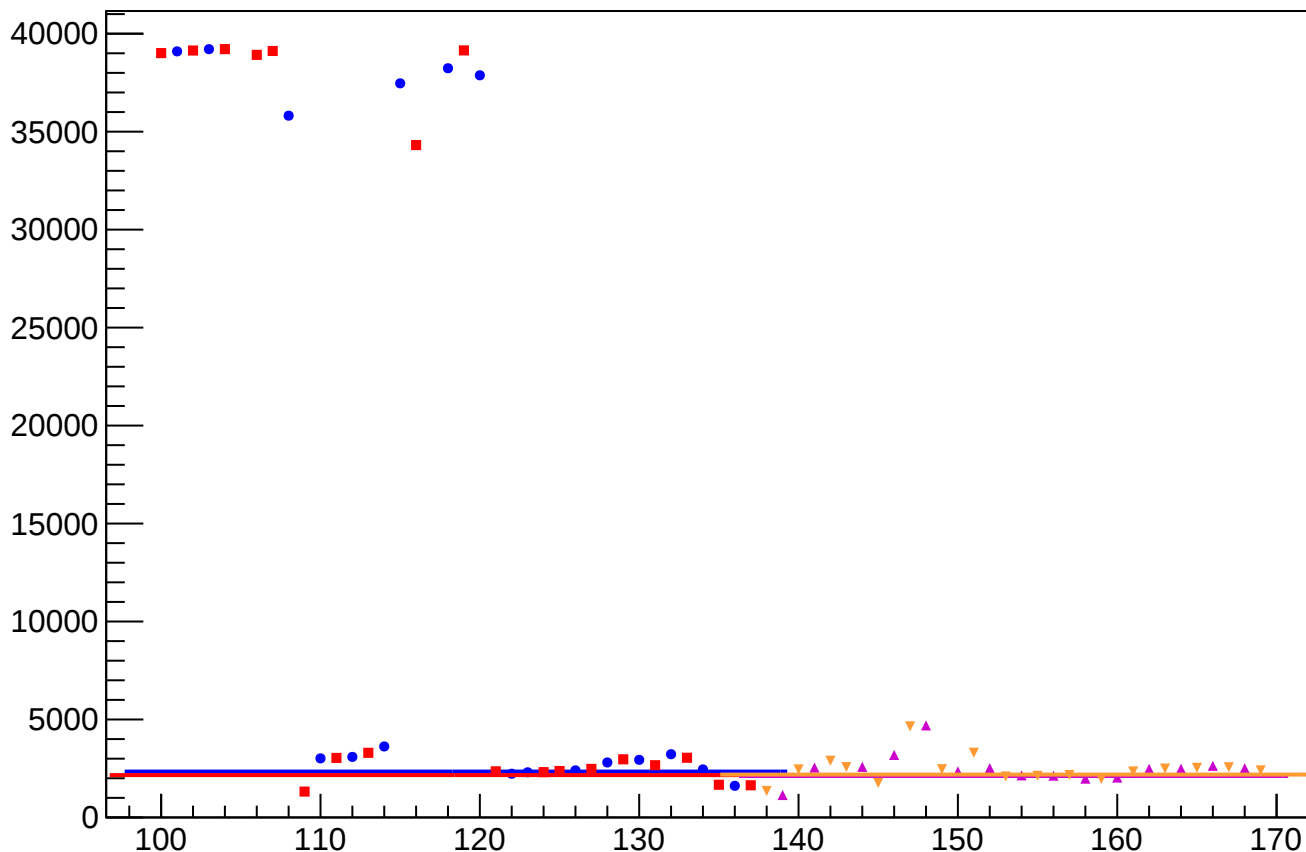
Right: 1.548 $\pm$ 0.778 χ^2 /NDF: 45.4/35

In: 0.342 $\pm$ 0.567 χ^2 /NDF:33.0/31

Out: -0.254 $\pm$ 0.550 χ^2 /NDF:43.6/35

All: 0.035 $\pm$ 0.395 χ^2 /NDF: 77.2/67

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.130 $\pm$ 0.808 χ^2/NDF : 5006864.7/16

Left Out: 2188.196 $\pm$ 0.455 χ^2/NDF :1390852.2/16

Right Out: 2161.162 $\pm$ 0.751 χ^2/NDF : 5299050.1/18

Left In: 2117.698 $\pm$ 0.462 χ^2/NDF :1919043.2/14

Left: 2153.489 $\pm$ 0.324 χ^2/NDF : 3321713.5/31

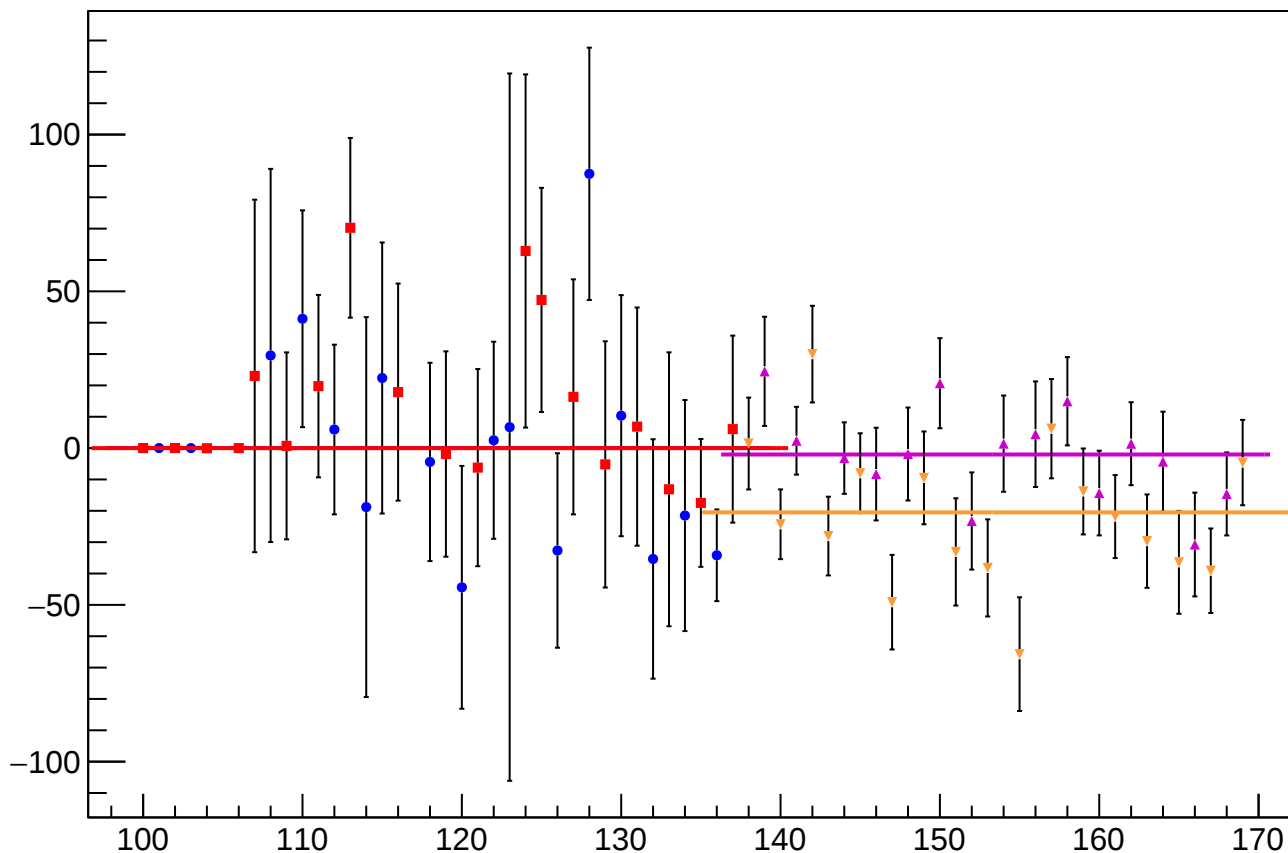
Right: 2244.559 $\pm$ 0.550 χ^2/NDF : 10332522.7/35

In: 2172.739 $\pm$ 0.401 χ^2/NDF :6983509.1/31

Out: 2180.938 $\pm$ 0.389 χ^2/NDF :6690850.1/35

All: 2176.963 $\pm$ 0.279 χ^2/NDF : 13674574.3/66

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 16.2/16

Left Out: -20.494 ± 3.467 χ^2/NDF : 34.3/16

Right Out: -0.003 ± 0.016 χ^2/NDF : 15.9/18

Left In: -2.035 ± 3.652 χ^2/NDF : 13.5/14

Left: -11.744 ± 2.514 χ^2/NDF : 61.3/31

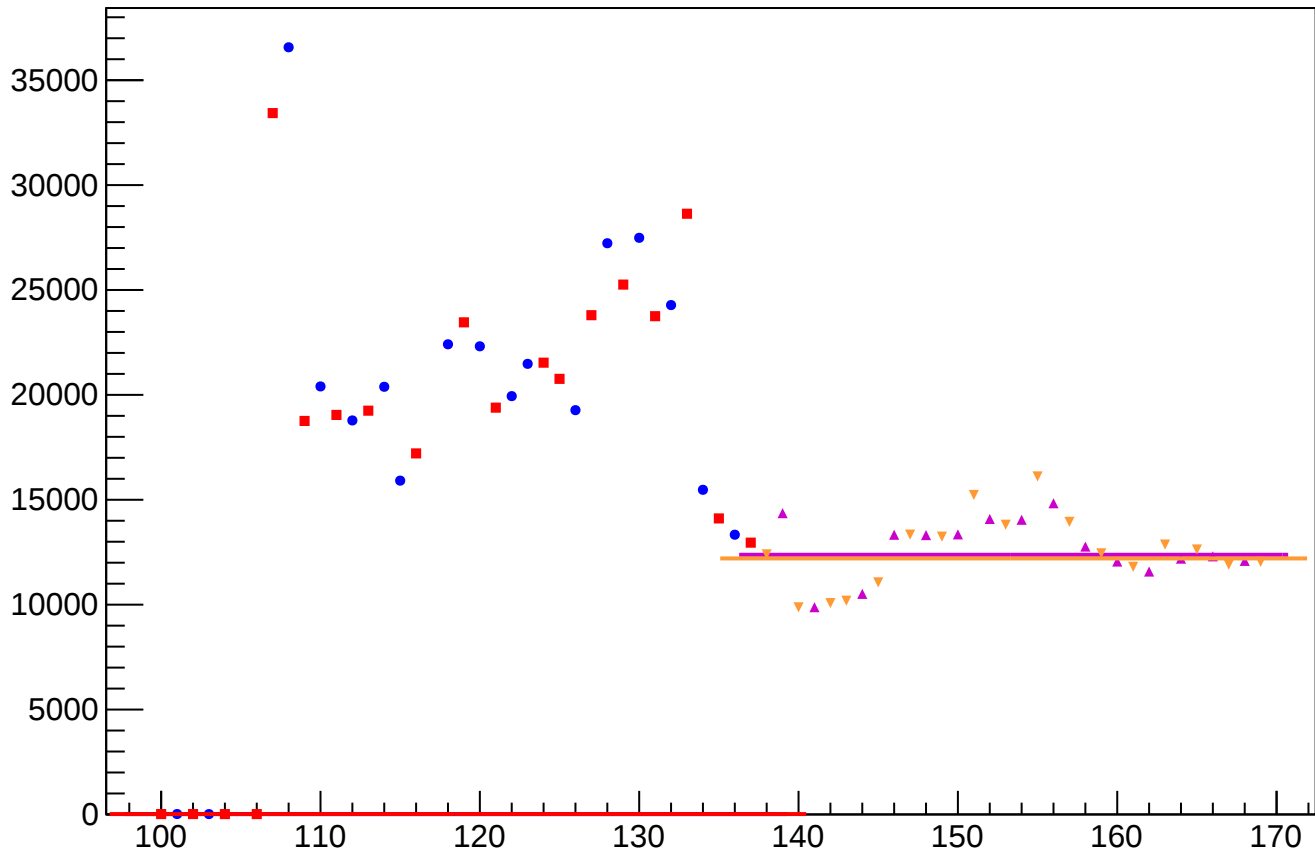
Right: 0.004 ± 0.012 χ^2/NDF : 32.5/35

In: 0.013 ± 0.017 χ^2/NDF : 30.0/31

Out: -0.004 ± 0.016 χ^2/NDF : 85.1/35

All: 0.004 ± 0.012 χ^2/NDF : 115.6/67

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12203.482 $\pm$ 2.451 χ^2 /NDF: 425493.0/16

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: 12286.361 $\pm$ 1.778 χ^2 /NDF: 741298.4/31

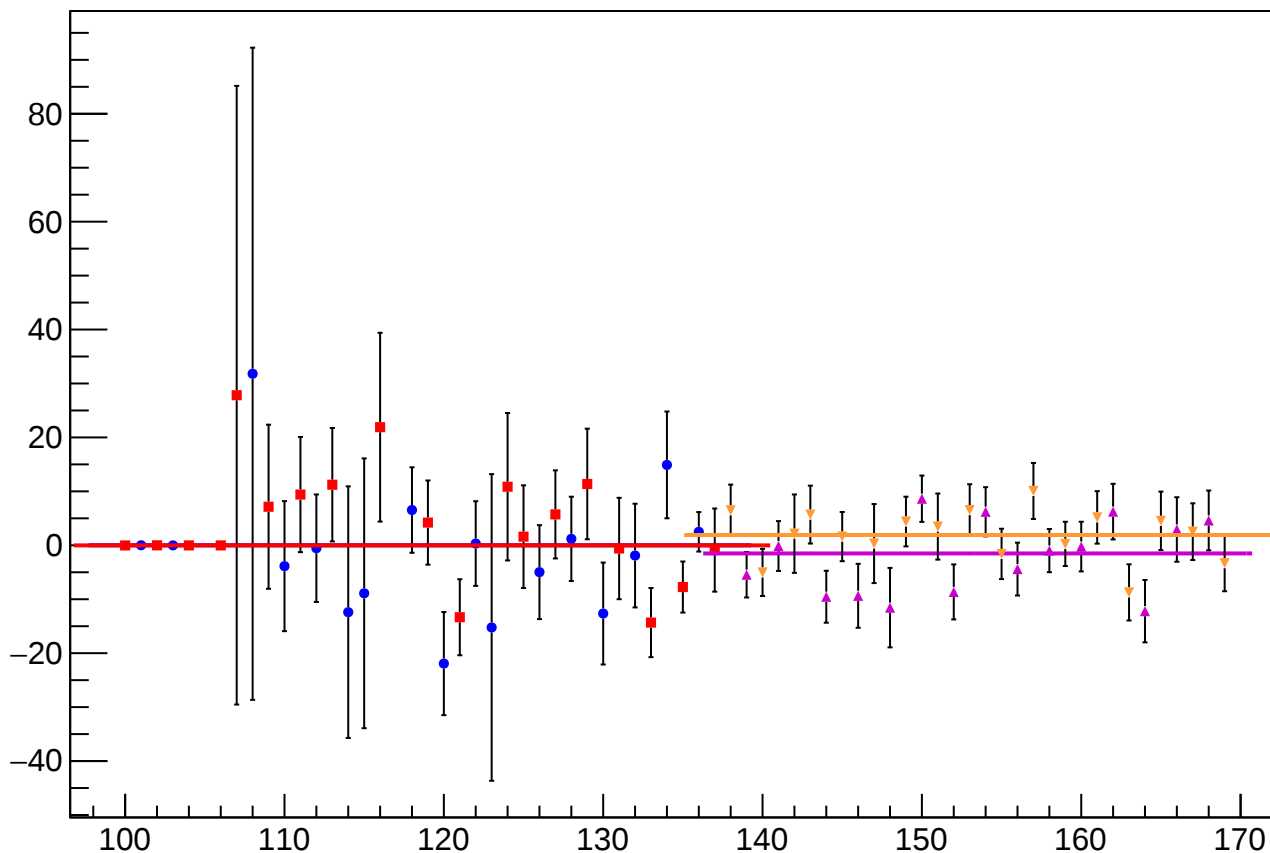
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

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

Out: 18.573 $\pm$ 0.011 χ^2 /NDF: 36241861.8/35

All: 18.734 $\pm$ 0.008 χ^2 /NDF: 70449812.8/67

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 13.0/16$

Left Out: 1.909 ± 1.228 $\chi^2/\text{NDF}: 14.4/16$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 18.6/18$

Left In: -1.509 ± 1.277 $\chi^2/\text{NDF}: 25.7/14$

Left: 0.267 ± 0.885 $\chi^2/\text{NDF}: 43.7/31$

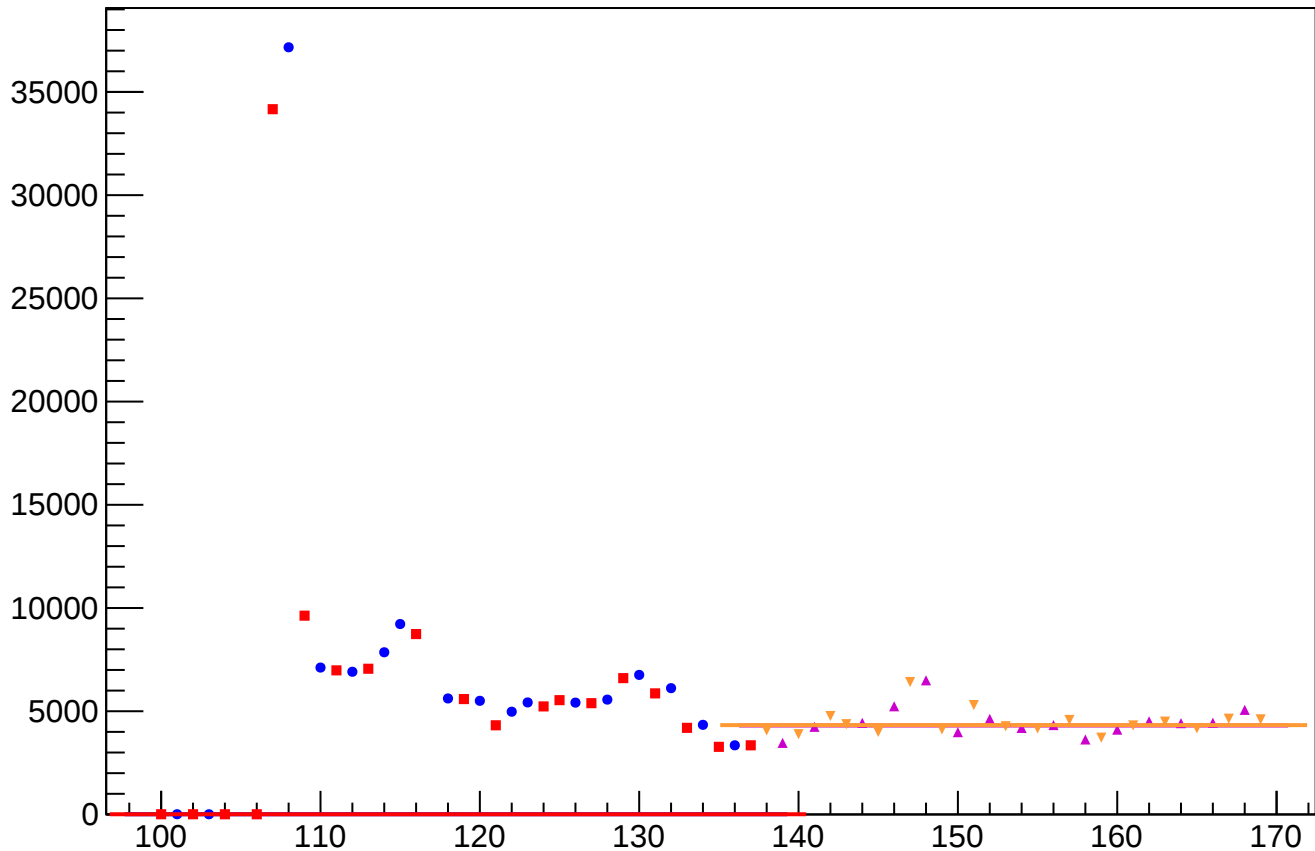
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 40.1/31$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 35.4/35$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 76.8/67$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4327.162 $\pm$ 0.869 χ^2 /NDF:328392.7/16

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: 4318.387 $\pm$ 0.626 χ^2 /NDF: 759682.9/31

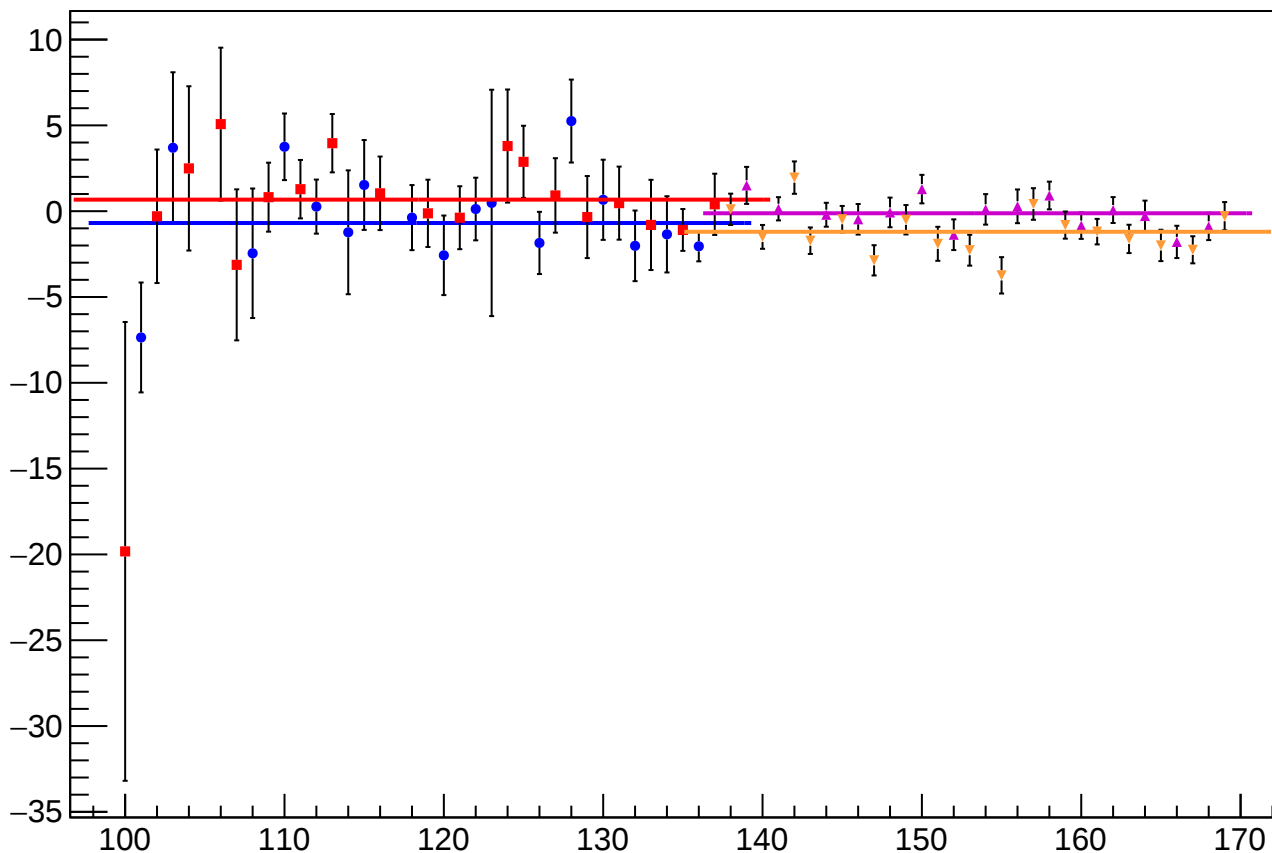
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

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

Out: 10.069 $\pm$ 0.006 χ^2 /NDF:36196214.0/35

All: 10.112 $\pm$ 0.004 χ^2 /NDF: 70396140.1/67

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 $\chi^2/\text{NDF}: 22.5/16$

Left Out: -1.200 ± 0.205 $\chi^2/\text{NDF}: 34.0/16$

Right Out: 0.672 ± 0.501 $\chi^2/\text{NDF}: 13.3/18$

Left In: -0.121 ± 0.215 $\chi^2/\text{NDF}: 14.3/14$

Left: -0.687 ± 0.148 $\chi^2/\text{NDF}: 61.5/31$

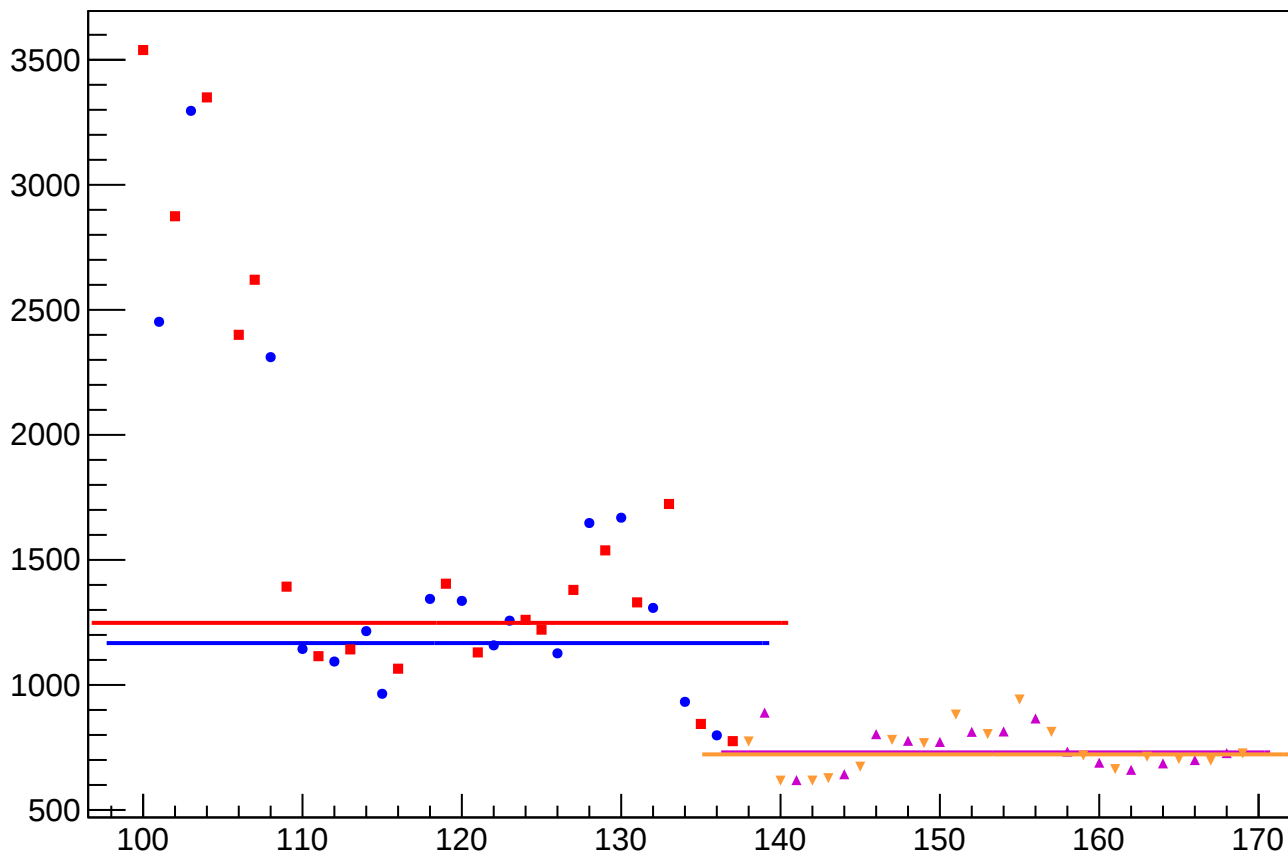
Right: -0.034 ± 0.347 $\chi^2/\text{NDF}: 39.7/35$

In: -0.215 ± 0.196 $\chi^2/\text{NDF}: 38.0/31$

Out: -0.932 ± 0.189 $\chi^2/\text{NDF}: 59.3/35$

All: -0.586 ± 0.136 $\chi^2/\text{NDF}: 104.2/67$

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 722.299 $\pm$ 0.145 χ^2 /NDF: 317660.4/16

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: 726.084 $\pm$ 0.105 χ^2 /NDF: 574307.7/31

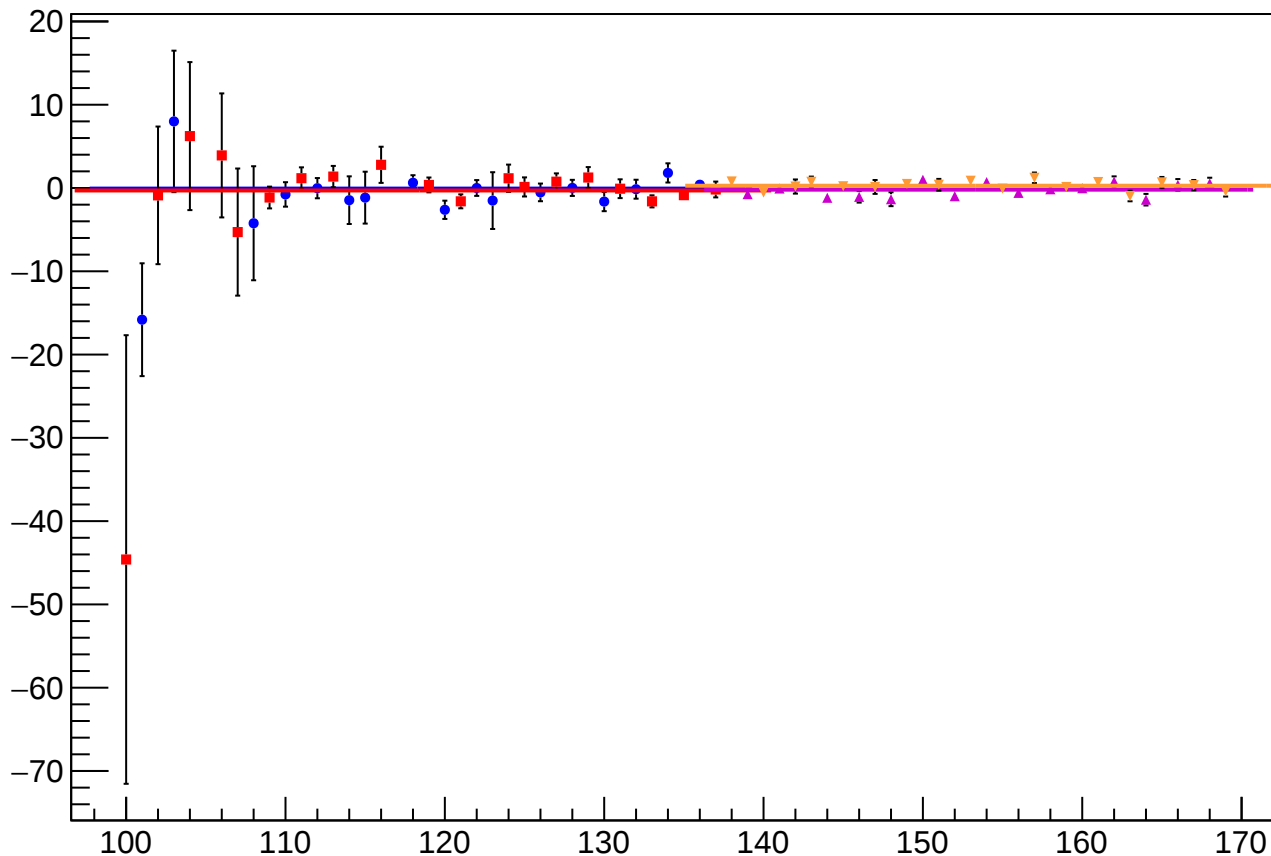
Right: 1206.306 $\pm$ 0.246 χ^2 /NDF: 3259405.5/35

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

Out: 797.606 $\pm$ 0.134 χ^2 /NDF: 3862622.4/35

All: 800.105 $\pm$ 0.096 χ^2 /NDF: 7067388.7/67

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.273 ± 0.147 χ^2/NDF : 13.8/16

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: 0.047 ± 0.106 χ^2/NDF : 44.0/31

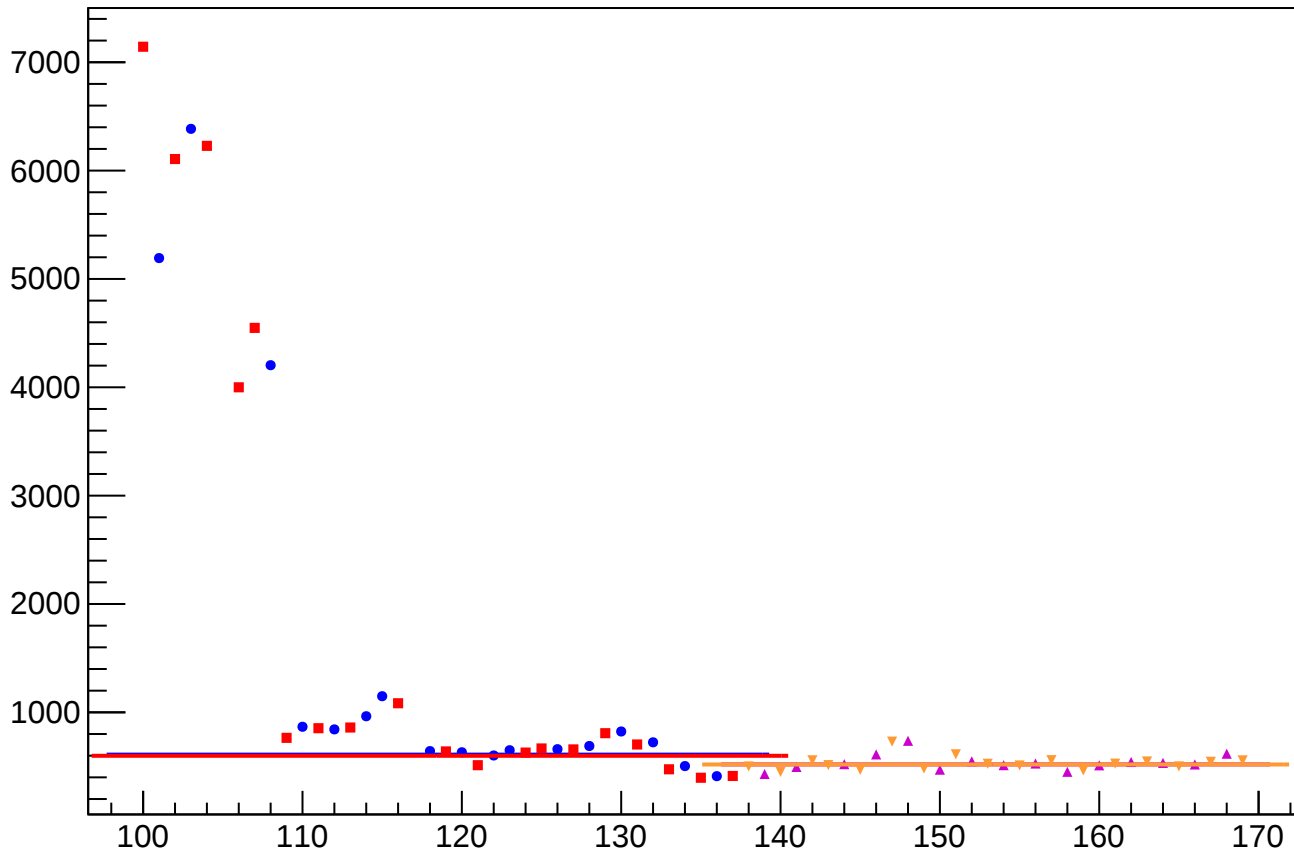
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.168 ± 0.133 χ^2/NDF : 44.7/31

Out: 0.139 ± 0.128 χ^2/NDF : 37.6/35

All: -0.009 ± 0.093 χ^2/NDF : 85.0/67

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.780 $\pm$ 0.190 χ^2 /NDF: 3135978.5/16

Left Out: 518.803 $\pm$ 0.104 χ^2 /NDF: 280787.3/16

Right Out: 599.018 $\pm$ 0.187 χ^2 /NDF: 3552387.3/18

Left In: 519.488 $\pm$ 0.109 χ^2 /NDF: 340510.0/14

Left: 519.131 $\pm$ 0.075 χ^2 /NDF: 621318.1/31

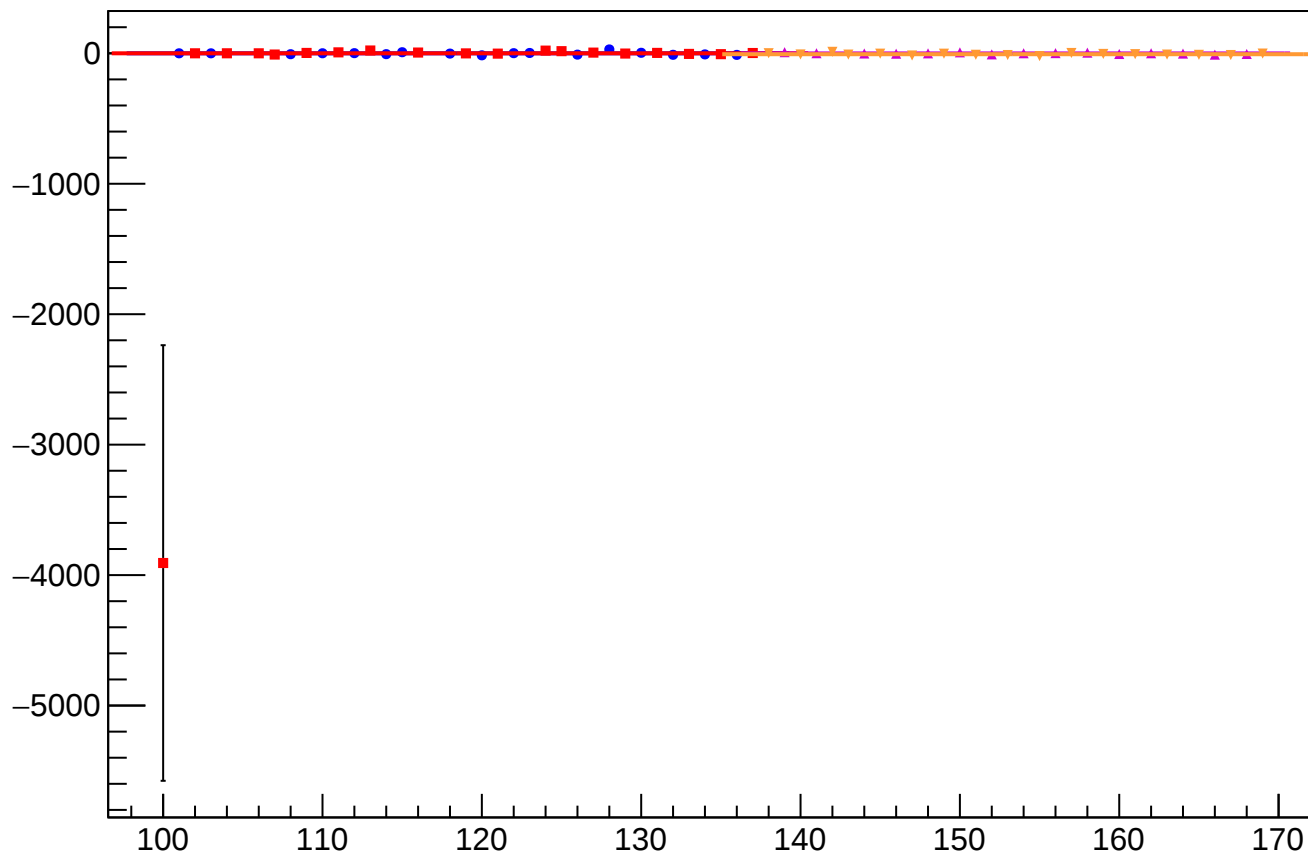
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 541.747 $\pm$ 0.094 χ^2 /NDF: 3646799.7/31

Out: 537.807 $\pm$ 0.091 χ^2 /NDF: 3974167.6/35

All: 539.704 $\pm$ 0.065 χ^2 /NDF: 7621873.0/67

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -6.947 ± 1.193 χ^2/NDF : 34.0/16

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: -3.994 ± 0.865 χ^2/NDF : 60.9/31

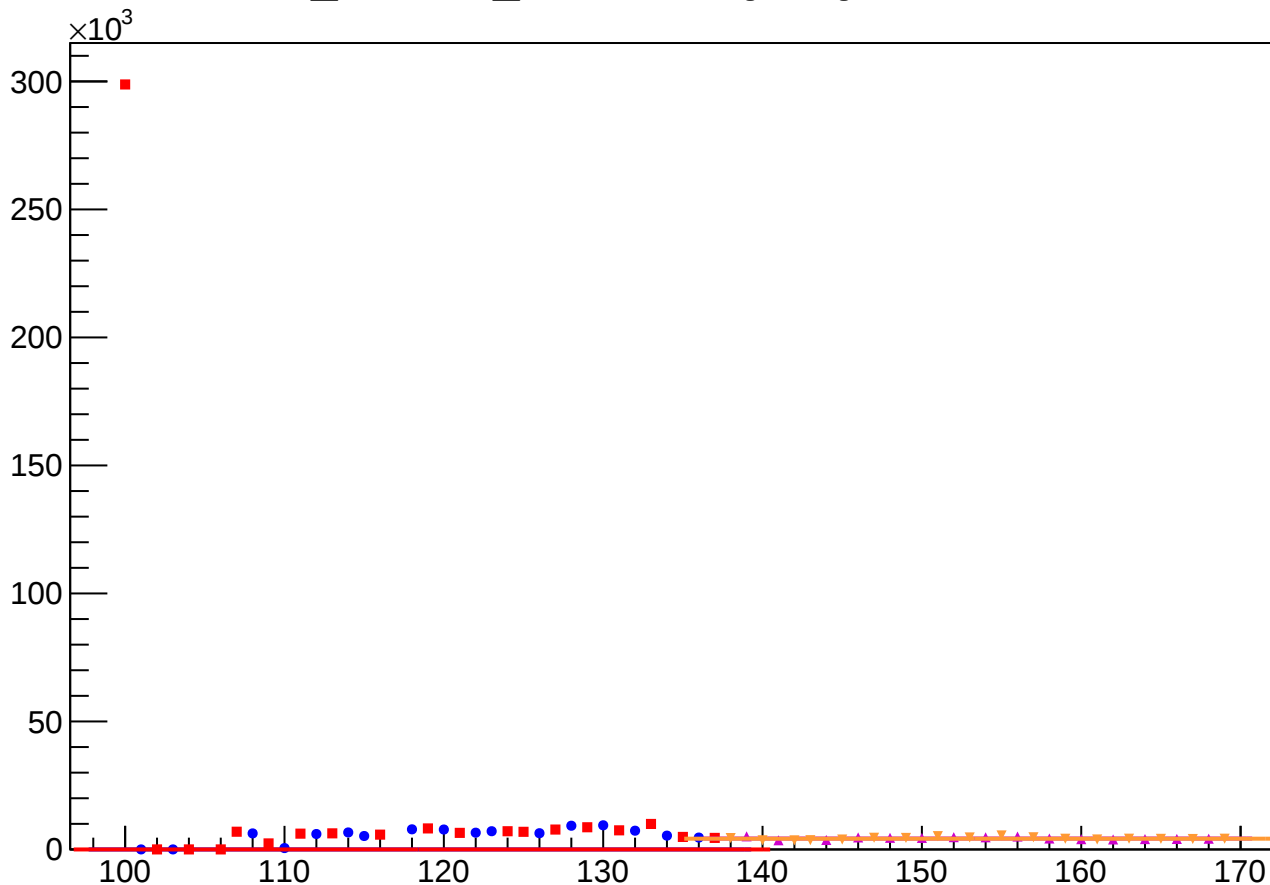
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 29.9/31

Out: 0.025 ± 0.020 χ^2/NDF : 86.1/35

All: 0.003 ± 0.014 χ^2/NDF : 118.6/67

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4206.788 ± 0.843 χ^2/NDF : 335435.9/16

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: 4233.019 ± 0.611 χ^2/NDF : 596513.6/31

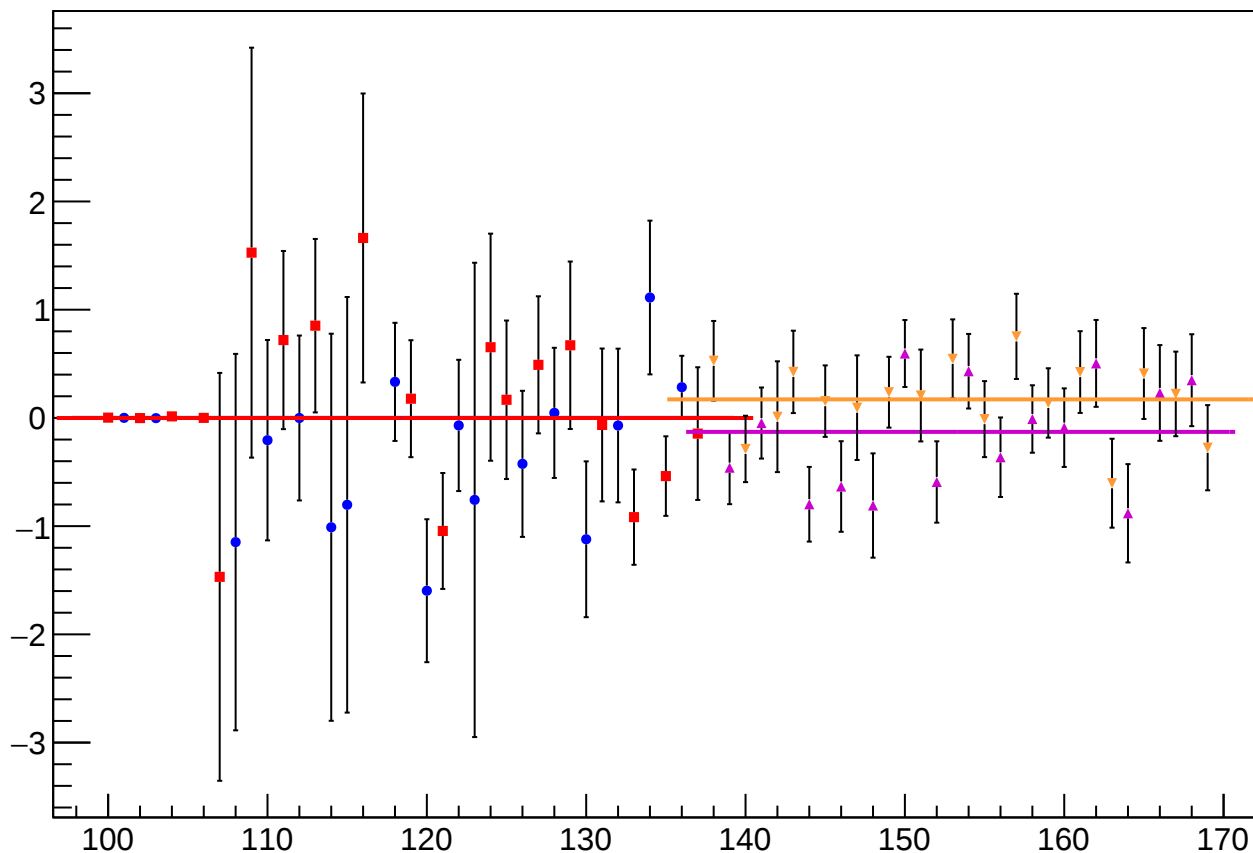
Right: 17.303 ± 0.010 χ^2/NDF : 21322069.2/35

In: 18.505 ± 0.015 χ^2/NDF : 33615647.2/31

Out: 18.421 ± 0.014 χ^2/NDF : 35832650.7/35

All: 18.461 ± 0.010 χ^2/NDF : 69448315.1/67

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.171 ± 0.091 χ^2/NDF : 12.9/16

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: 0.028 ± 0.066 χ^2/NDF : 43.7/31

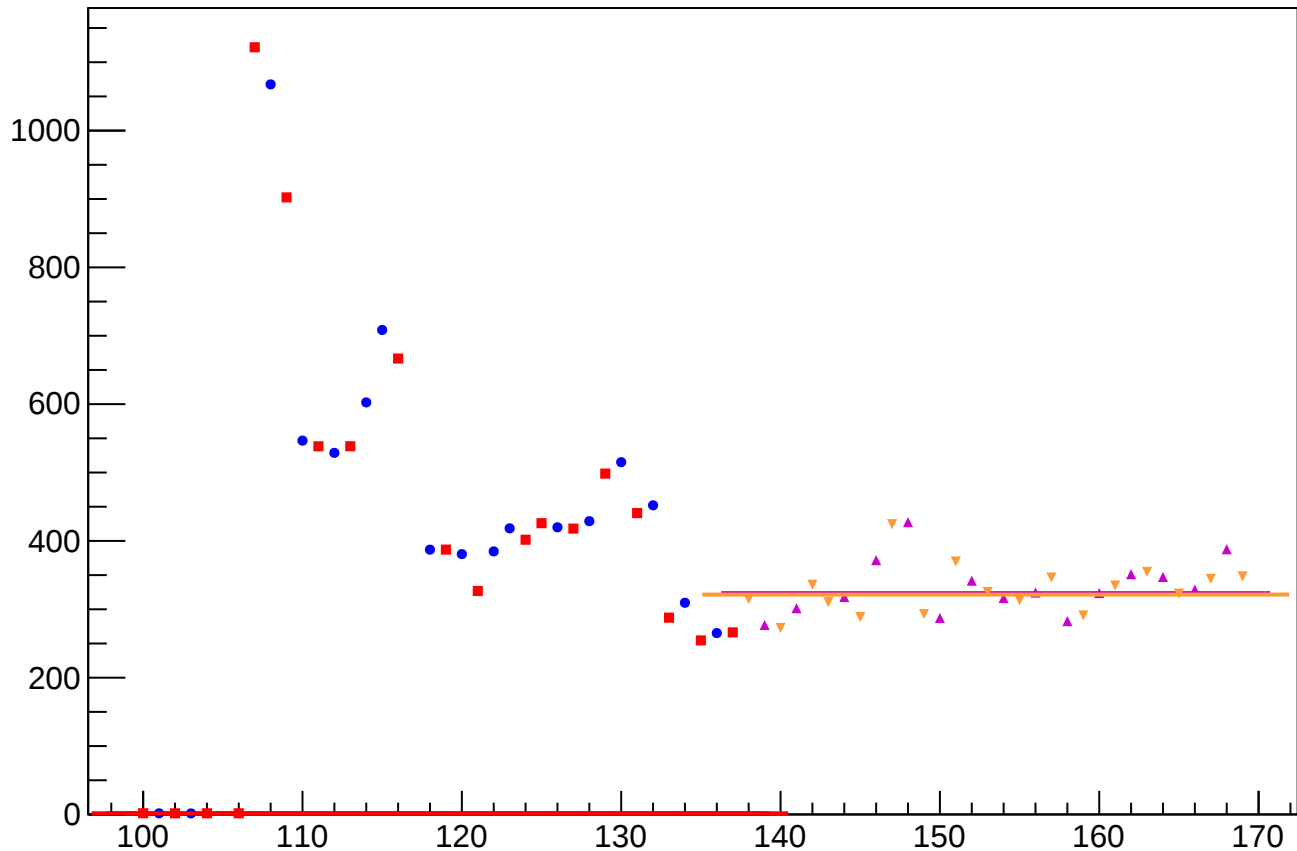
Right: -0.000 ± 0.001 χ^2/NDF : 31.8/35

In: 0.000 ± 0.002 χ^2/NDF : 41.2/31

Out: -0.001 ± 0.002 χ^2/NDF : 34.4/35

All: -0.000 ± 0.001 χ^2/NDF : 75.7/67

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 321.514 $\pm$ 0.064 χ^2 /NDF:265308.5/16

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: 322.545 $\pm$ 0.047 χ^2 /NDF: 561426.4/31

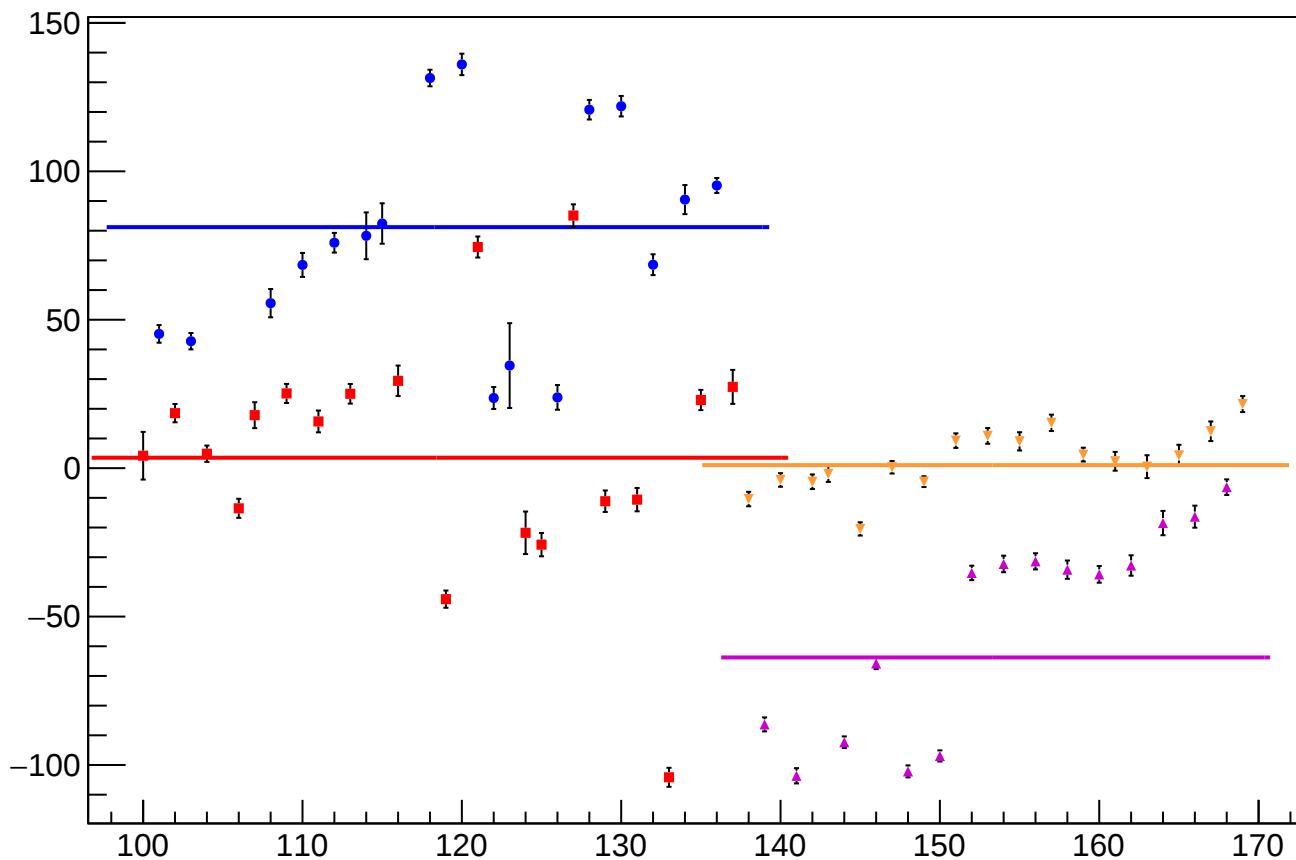
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

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

Out: 1.873 $\pm$ 0.001 χ^2 /NDF:35645417.0/35

All: 1.859 $\pm$ 0.001 χ^2 /NDF: 69672402.7/67

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201+/-0.886 χ^2/NDF : 1709.8/16

Left Out: 1.023+/-0.621 χ^2/NDF : 266.7/16

Right Out: 3.508+/-0.843 χ^2/NDF : 2599.0/18

Left In: -63.768+/-0.642 χ^2/NDF : 2657.8/14

Left: -30.293+/-0.446 χ^2/NDF : 8188.5/31

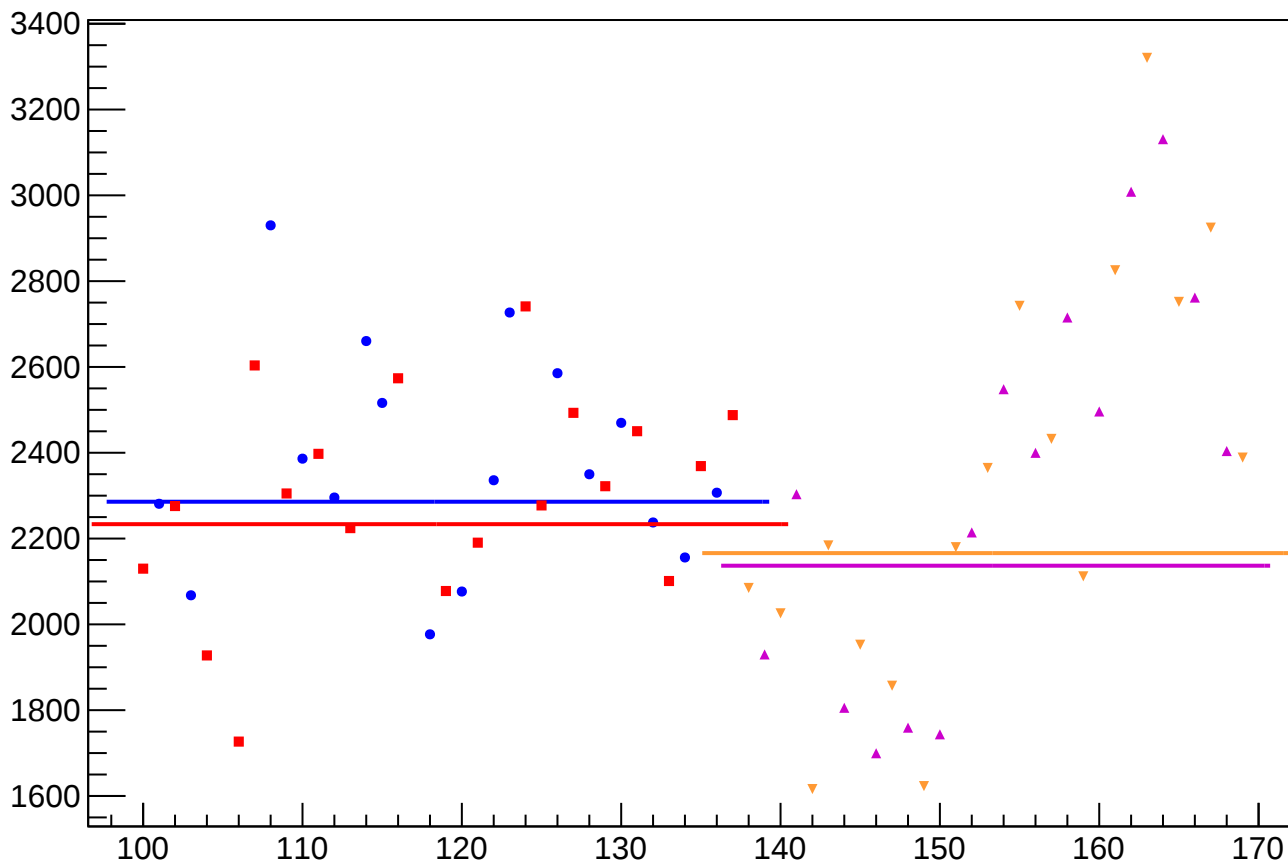
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -13.846+/-0.520 χ^2/NDF : 21932.7/31

Out: 1.897+/-0.500 χ^2/NDF : 2871.3/35

All: -5.666+/-0.360 χ^2/NDF : 25280.7/67

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855 $\pm$ 0.626 χ^2 /NDF: 109336.5/16

Left Out: 2166.081 $\pm$ 0.439 χ^2 /NDF: 888839.5/16

Right Out: 2233.547 $\pm$ 0.596 χ^2 /NDF: 146848.5/18

Left In: 2136.721 $\pm$ 0.454 χ^2 /NDF: 837231.1/14

Left: 2151.891 $\pm$ 0.316 χ^2 /NDF: 1728232.5/31

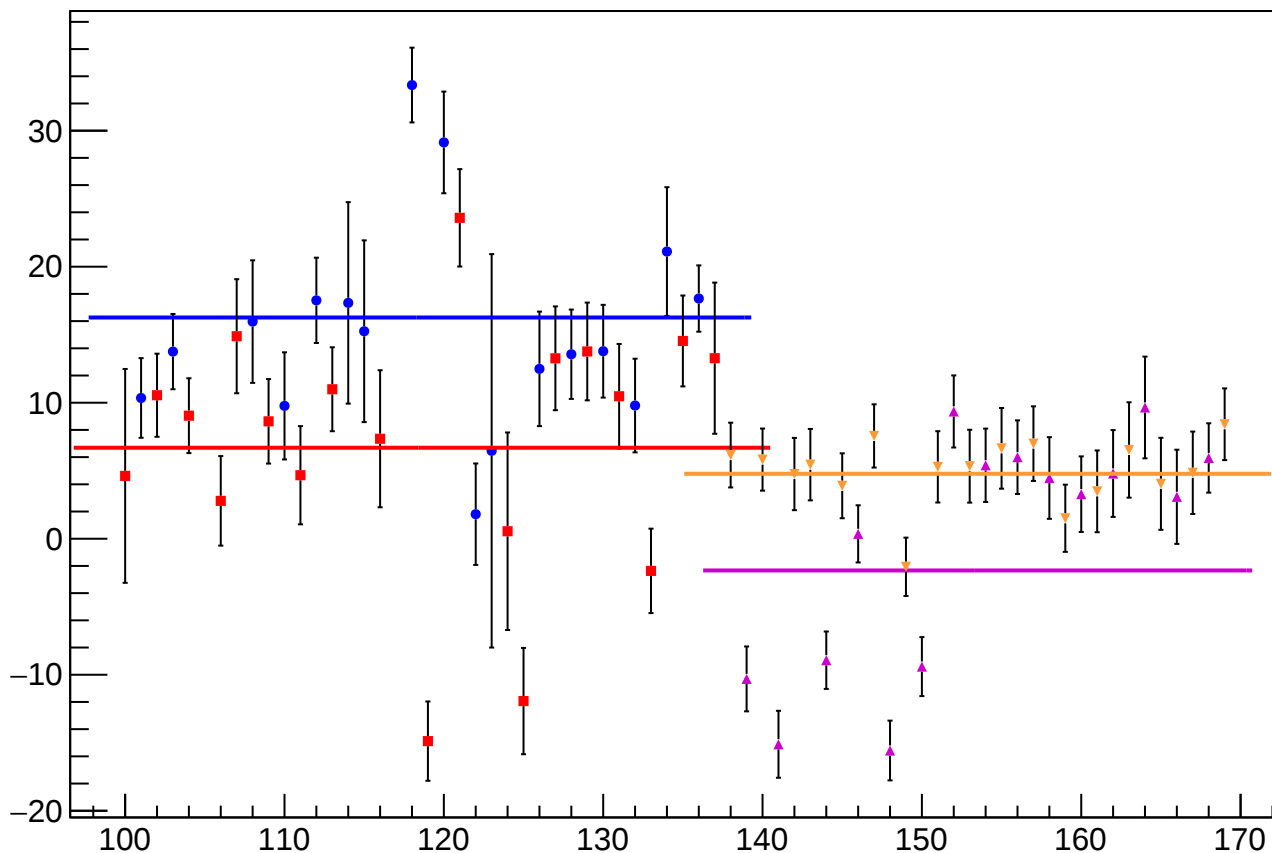
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2188.078 $\pm$ 0.368 χ^2 /NDF: 983745.0/31

Out: 2189.823 $\pm$ 0.353 χ^2 /NDF: 1043999.4/35

All: 2188.985 $\pm$ 0.255 χ^2 /NDF: 2027756.1/67

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 1.360 $\pm$ 0.459 χ^2/NDF : 248.4/31

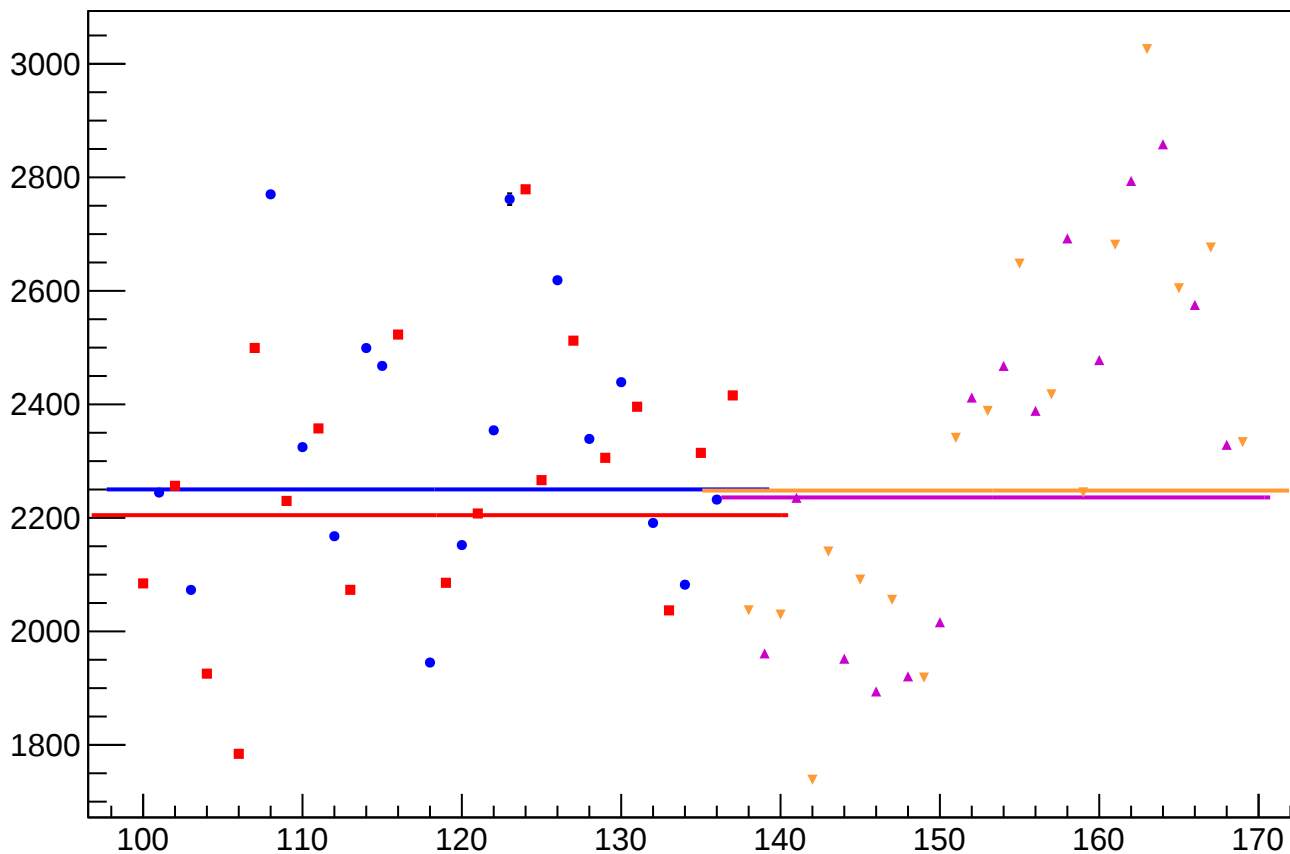
Right: 11.249 $\pm$ 0.601 χ^2/NDF : 278.0/35

In: 4.484 $\pm$ 0.528 χ^2/NDF : 540.4/31

Out: 5.484 $\pm$ 0.506 χ^2/NDF : 154.9/35

All: 5.005 $\pm$ 0.365 χ^2/NDF : 697.2/67

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2248.151+/-0.451 χ^2/NDF : 436813.9/16

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: 2242.322+/-0.325 χ^2/NDF : 844304.3/31

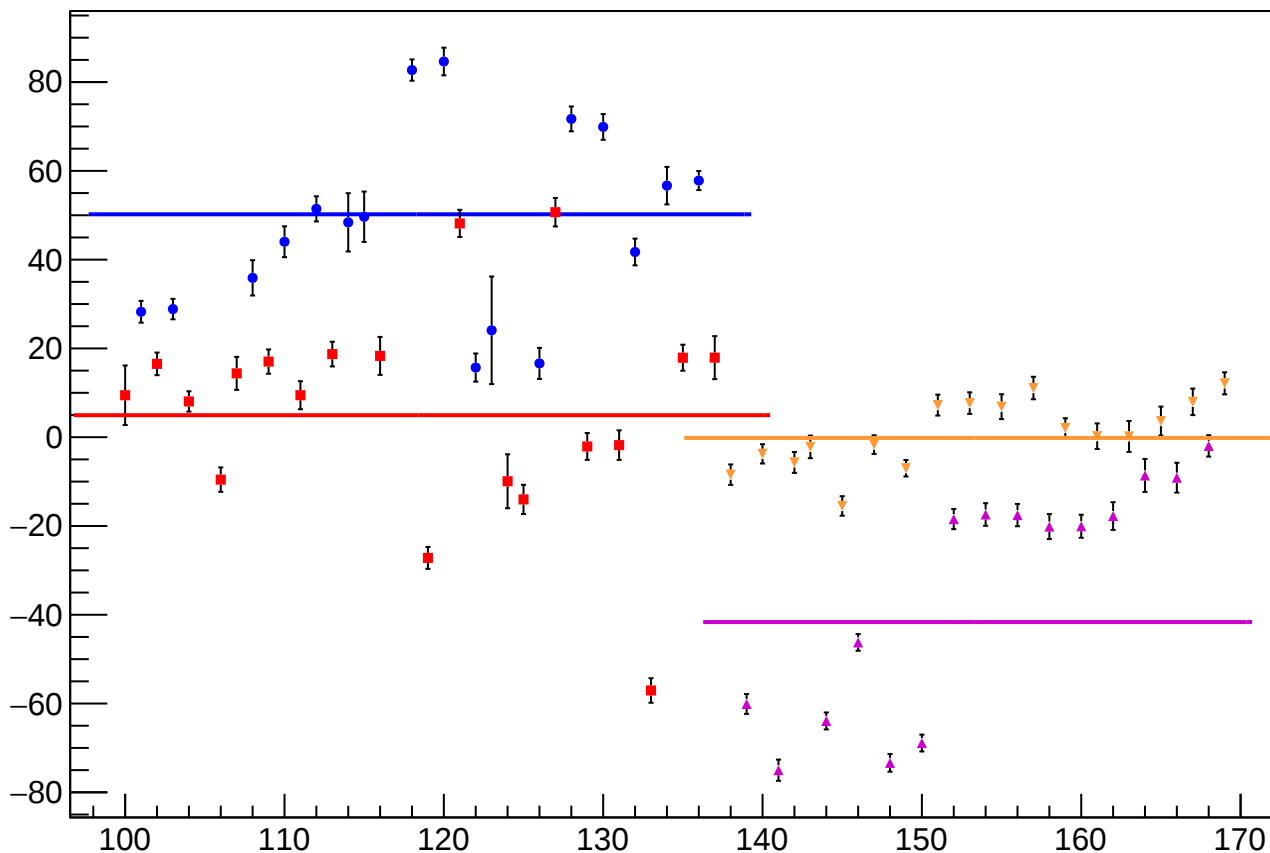
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

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

Out: 2232.081+/-0.358 χ^2/NDF : 566470.9/35

All: 2236.451+/-0.258 χ^2/NDF : 1071837.5/67

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: -0.168+/-0.590 χ^2/NDF : 165.3/16

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: -20.176+/-0.424 χ^2/NDF : 4334.2/31

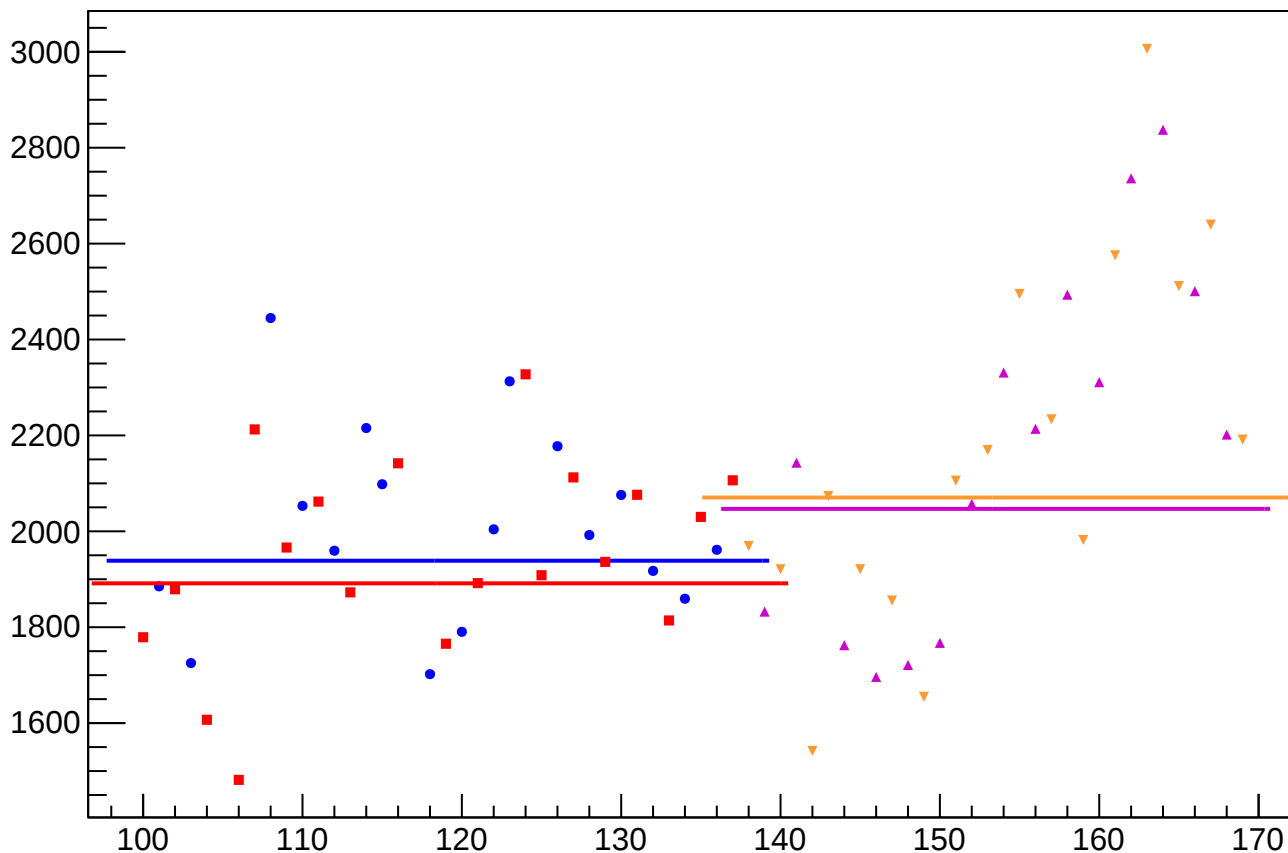
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

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

Out: 1.913+/-0.455 χ^2/NDF : 1458.6/35

All: -1.426+/-0.328 χ^2/NDF : 13191.2/67

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2070.412 $\pm$ 0.417 χ^2 /NDF: 625469.2/16

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: 2059.002 $\pm$ 0.300 χ^2 /NDF: 1196858.1/31

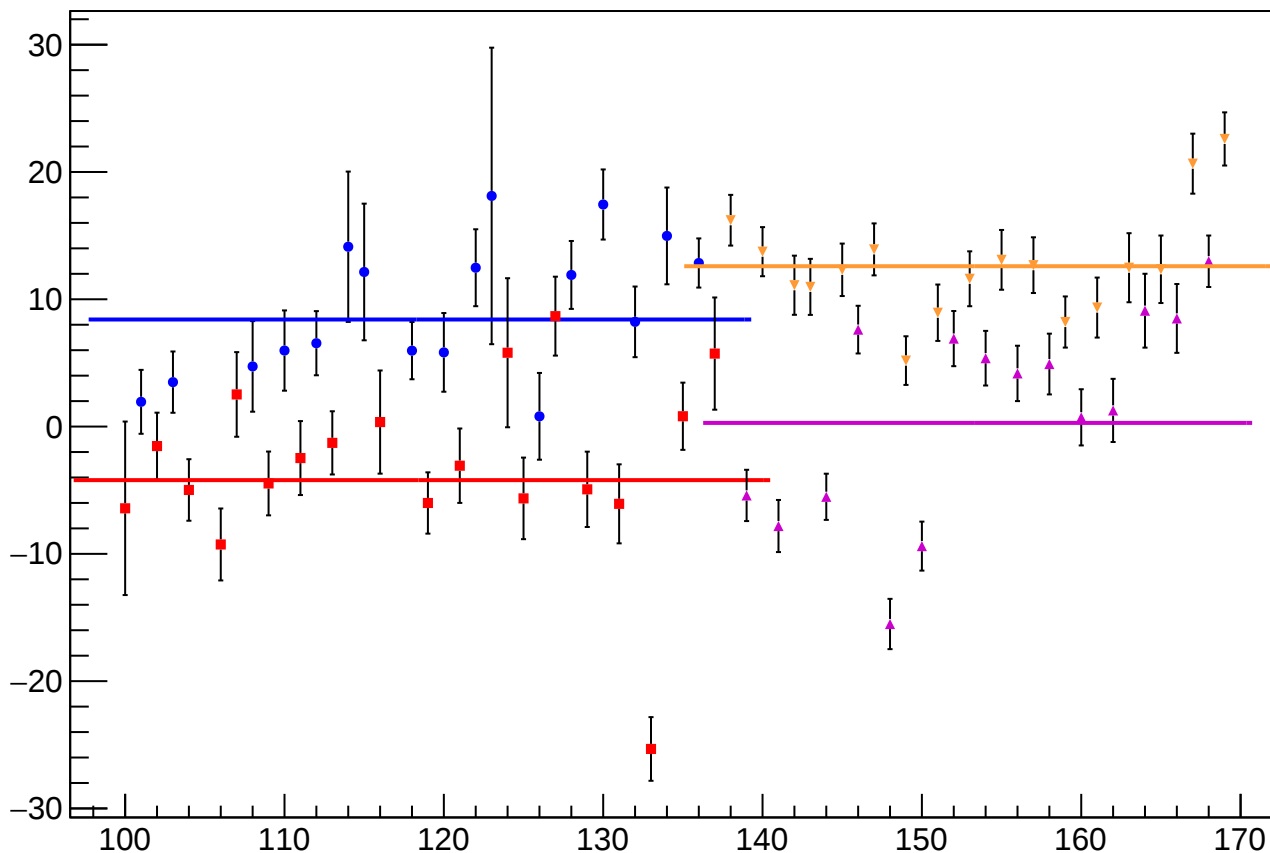
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

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

Out: 1997.763 $\pm$ 0.321 χ^2 /NDF: 846839.2/35

All: 2000.616 $\pm$ 0.232 χ^2 /NDF: 1541920.2/67

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 12.597 ± 0.528 $\chi^2/\text{NDF}: 64.3/16$

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

Left In: 0.288 ± 0.552 $\chi^2/\text{NDF}: 218.5/14$

Left: 6.711 ± 0.382 $\chi^2/\text{NDF}: 542.5/31$

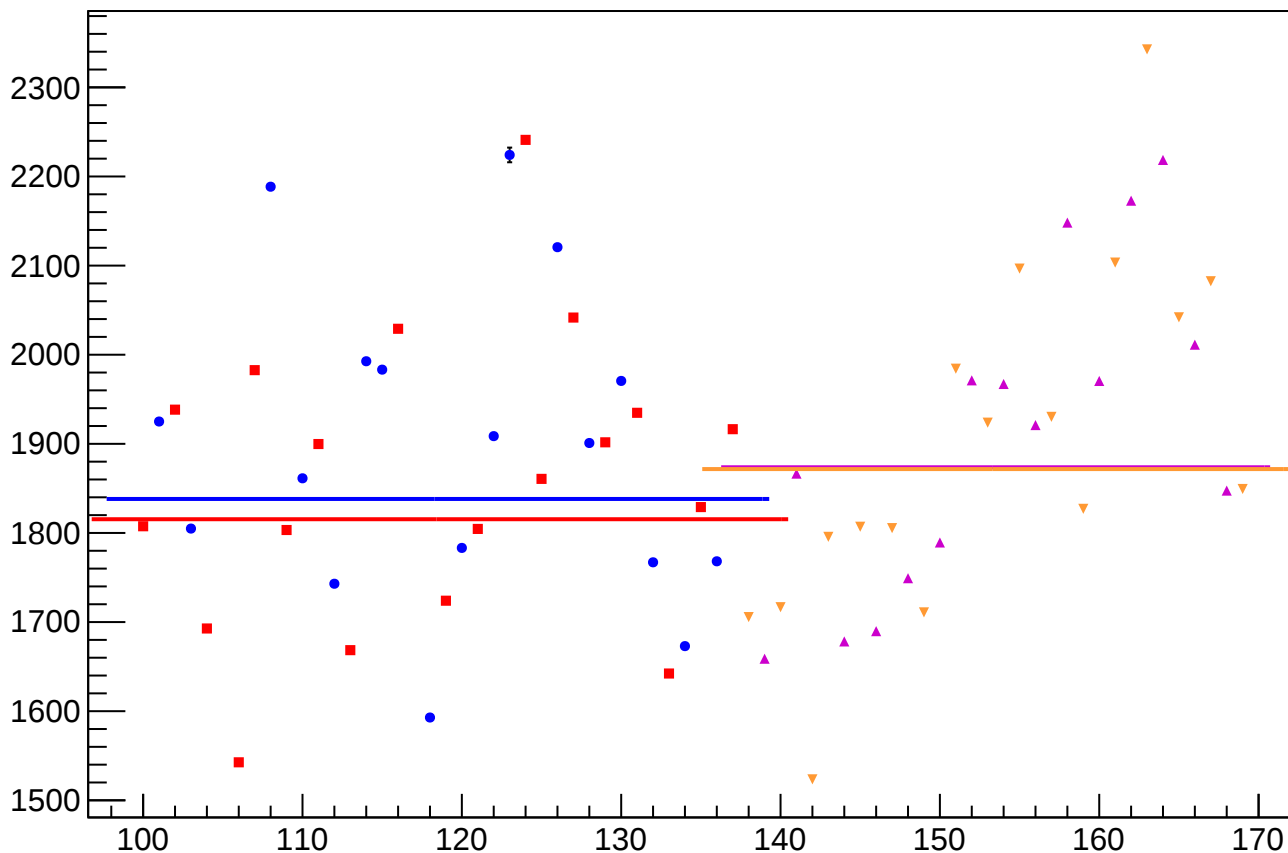
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 3.339 ± 0.436 $\chi^2/\text{NDF}: 344.5/31$

Out: 6.302 ± 0.418 $\chi^2/\text{NDF}: 556.7/35$

All: 4.884 ± 0.302 $\chi^2/\text{NDF}: 925.2/67$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1871.681+/-0.373 χ^2/NDF :223499.0/16

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: 1872.649+/-0.270 χ^2/NDF : 402501.4/31

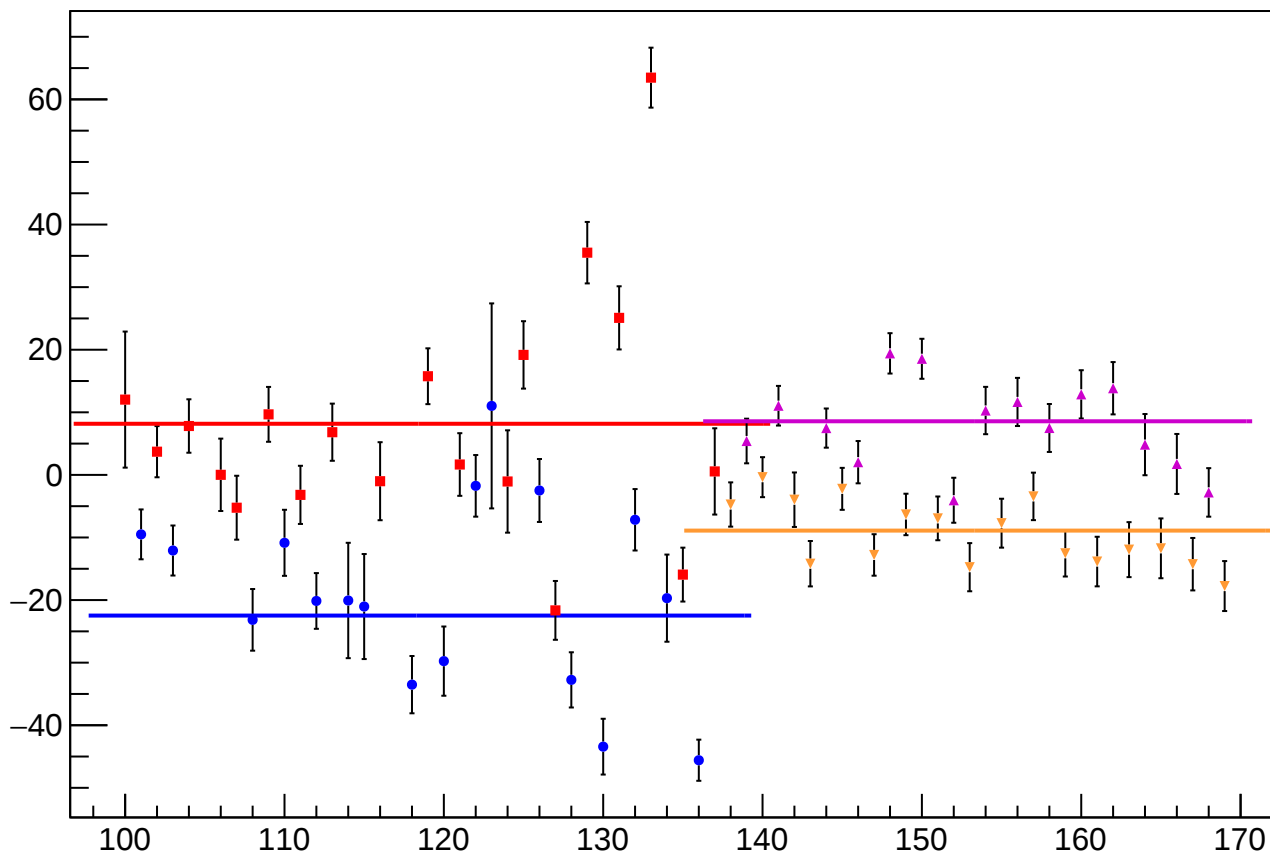
Right: 1826.303+/-0.348 χ^2/NDF : 171362.3/35

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

Out: 1850.600+/-0.295 χ^2/NDF :319425.6/35

All: 1855.264+/-0.213 χ^2/NDF : 584935.4/67

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 ± 1.195 $\chi^2/\text{NDF}: 154.7/16$

Left Out: -8.899 ± 0.908 $\chi^2/\text{NDF}: 32.6/16$

Right Out: 8.169 ± 1.157 $\chi^2/\text{NDF}: 276.9/18$

Left In: 8.567 ± 0.944 $\chi^2/\text{NDF}: 53.6/14$

Left: -0.511 ± 0.654 $\chi^2/\text{NDF}: 264.1/31$

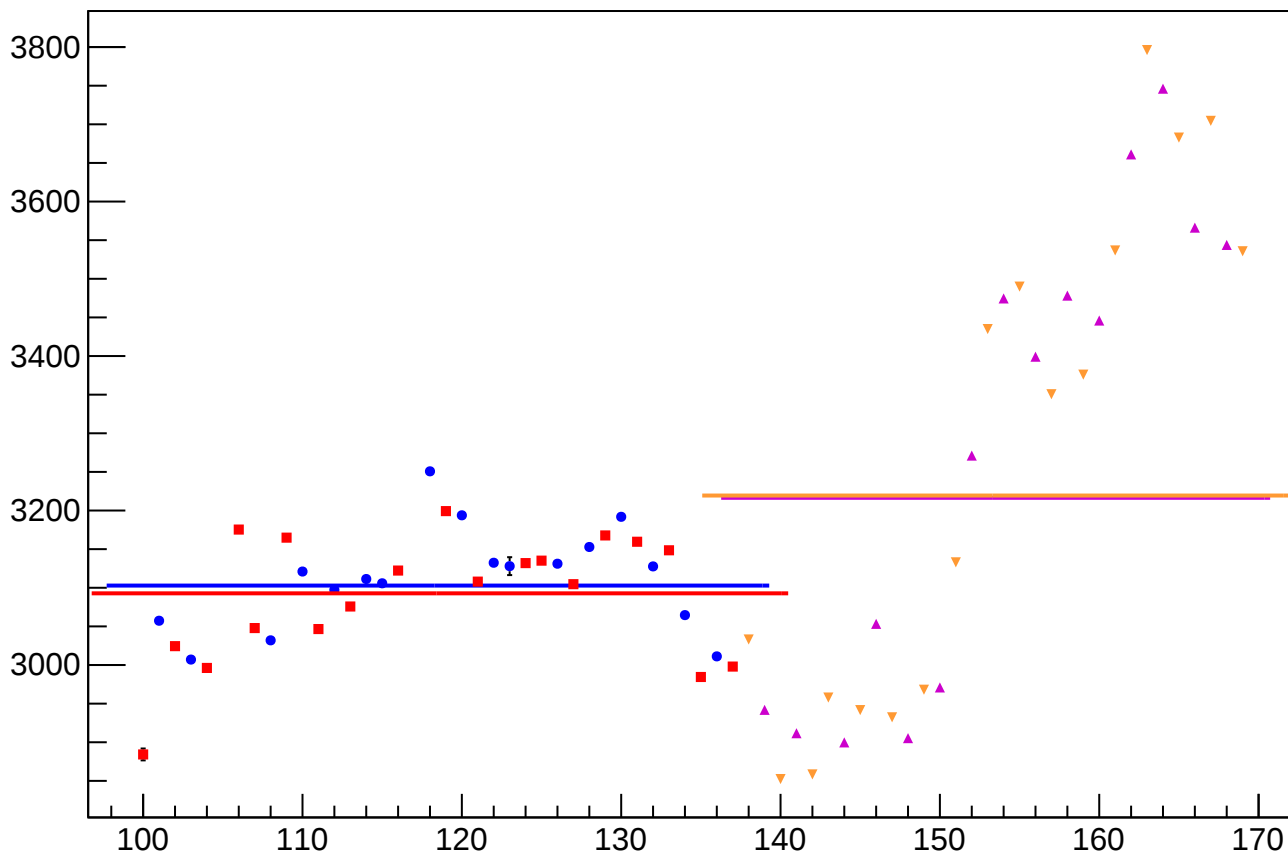
Right: -6.656 ± 0.831 $\chi^2/\text{NDF}: 771.3/35$

In: -3.369 ± 0.741 $\chi^2/\text{NDF}: 624.0/31$

Out: -2.393 ± 0.714 $\chi^2/\text{NDF}: 444.3/35$

All: -2.863 ± 0.514 $\chi^2/\text{NDF}: 1069.1/67$

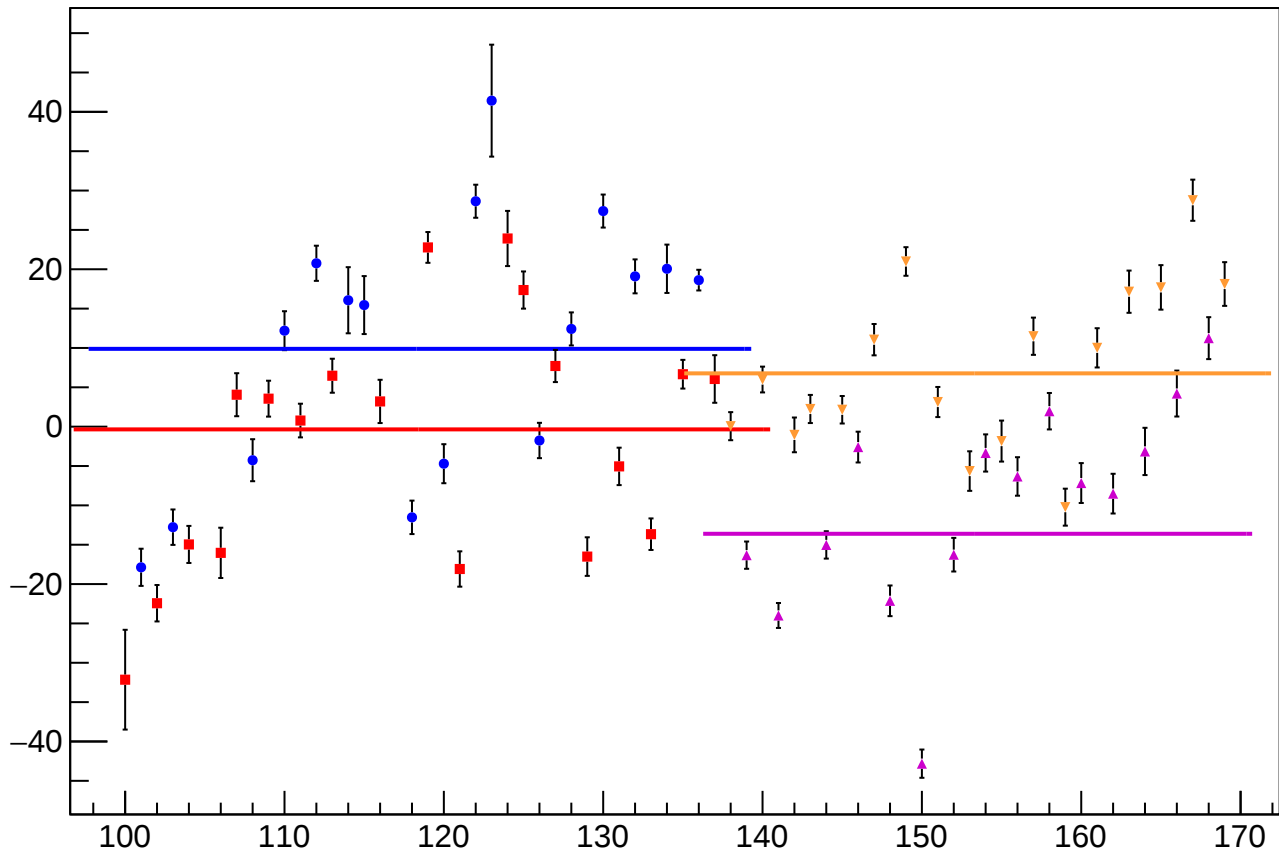
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16
 Left Out: 3219.410 $\pm$ 0.642 χ^2 /NDF:224837.1/16
 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: 3217.996 $\pm$ 0.463 χ^2 /NDF: 412493.0/31
 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: 3171.148 $\pm$ 0.505 χ^2 /NDF:247434.6/35
 All: 3171.934 $\pm$ 0.364 χ^2 /NDF: 453564.2/67

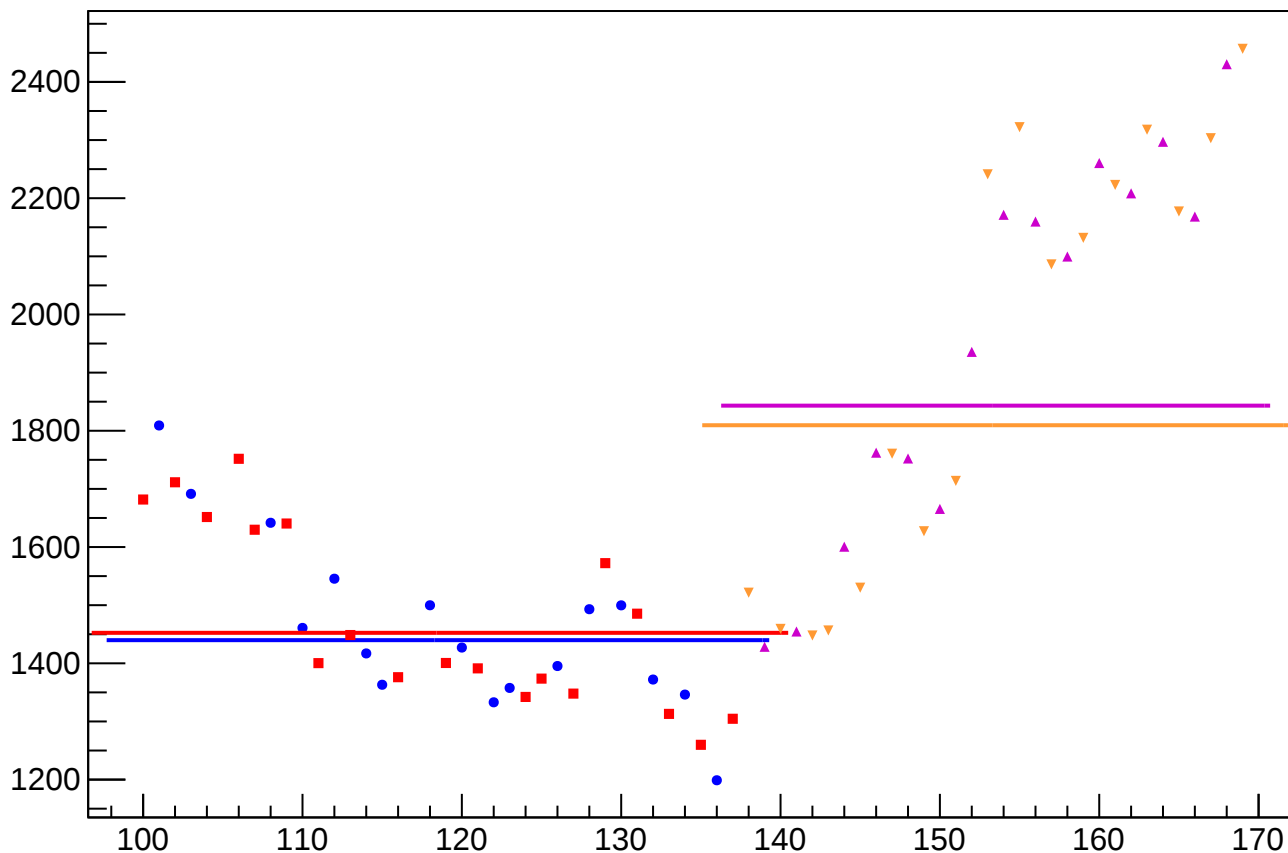
diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887+/-0.559 χ^2/NDF : 703.6/16
 Left Out: 6.772+/-0.518 χ^2/NDF : 320.6/16
 Right Out: -0.346+/-0.547 χ^2/NDF : 628.9/18
 Left In: -13.610+/-0.548 χ^2/NDF : 583.1/14

Left: -2.847+/-0.376 χ^2/NDF : 1634.4/31
 Right: 4.654+/-0.391 χ^2/NDF : 1503.6/35
 In: -2.107+/-0.391 χ^2/NDF : 2187.1/31
 Out: 3.406+/-0.376 χ^2/NDF : 1038.7/35
 All: 0.760+/-0.271 χ^2/NDF : 3329.0/67

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1809.502 $\pm$ 0.366 χ^2 /NDF: 894754.5/16

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

Left In: 1843.202 $\pm$ 0.387 χ^2 /NDF: 665255.8/14

Left: 1825.406 $\pm$ 0.266 χ^2 /NDF: 1564005.9/31

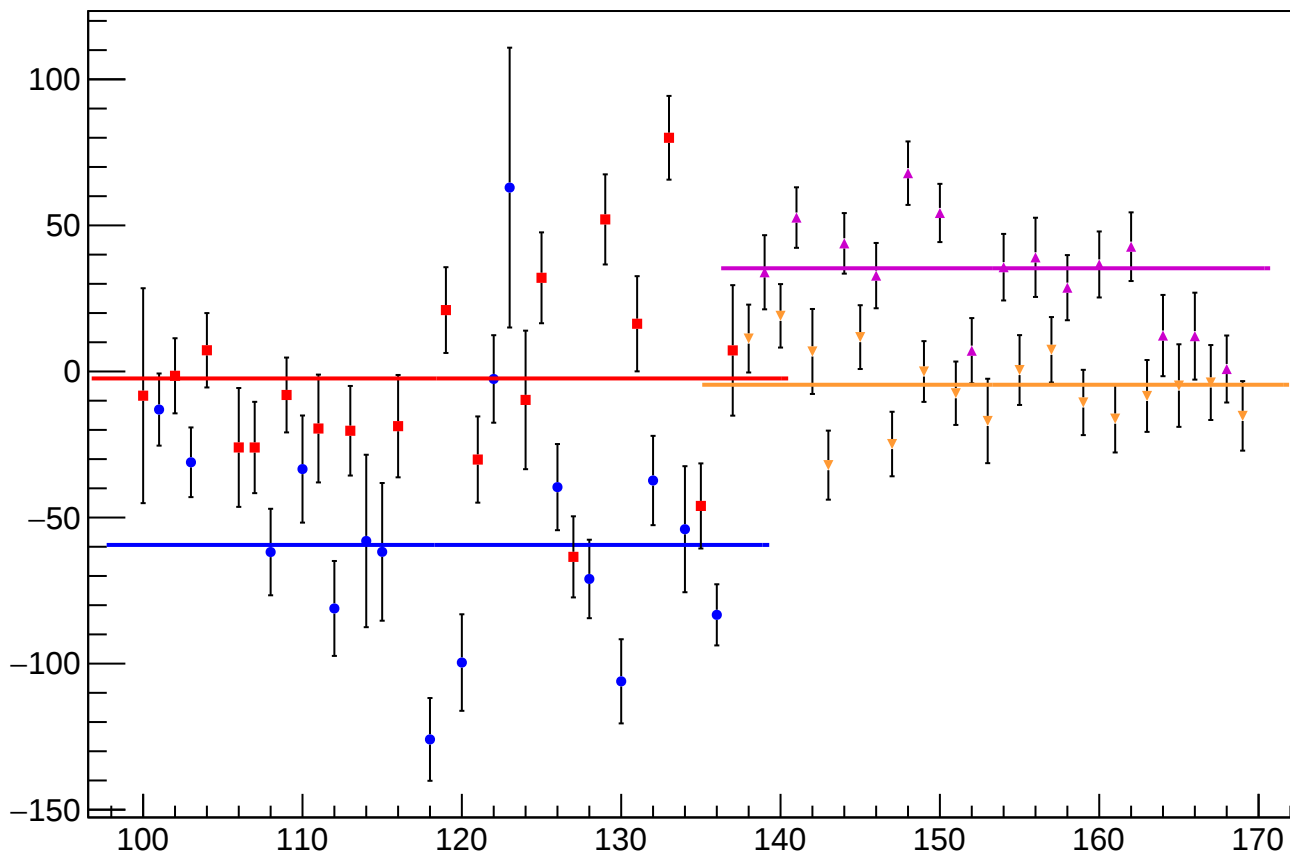
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1645.728 $\pm$ 0.277 χ^2 /NDF: 1368755.0/31

Out: 1640.667 $\pm$ 0.266 χ^2 /NDF: 1482668.8/35

All: 1643.096 $\pm$ 0.192 χ^2 /NDF: 2851597.6/67

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 $\pm$ 3.729 χ^2/NDF : 92.9/16

Left Out: -4.544 $\pm$ 2.862 χ^2/NDF : 22.7/16

Right Out: -2.388 $\pm$ 3.630 χ^2/NDF : 93.9/18

Left In: 35.326 $\pm$ 2.976 χ^2/NDF : 37.6/14

Left: 14.615 $\pm$ 2.063 χ^2/NDF : 153.6/31

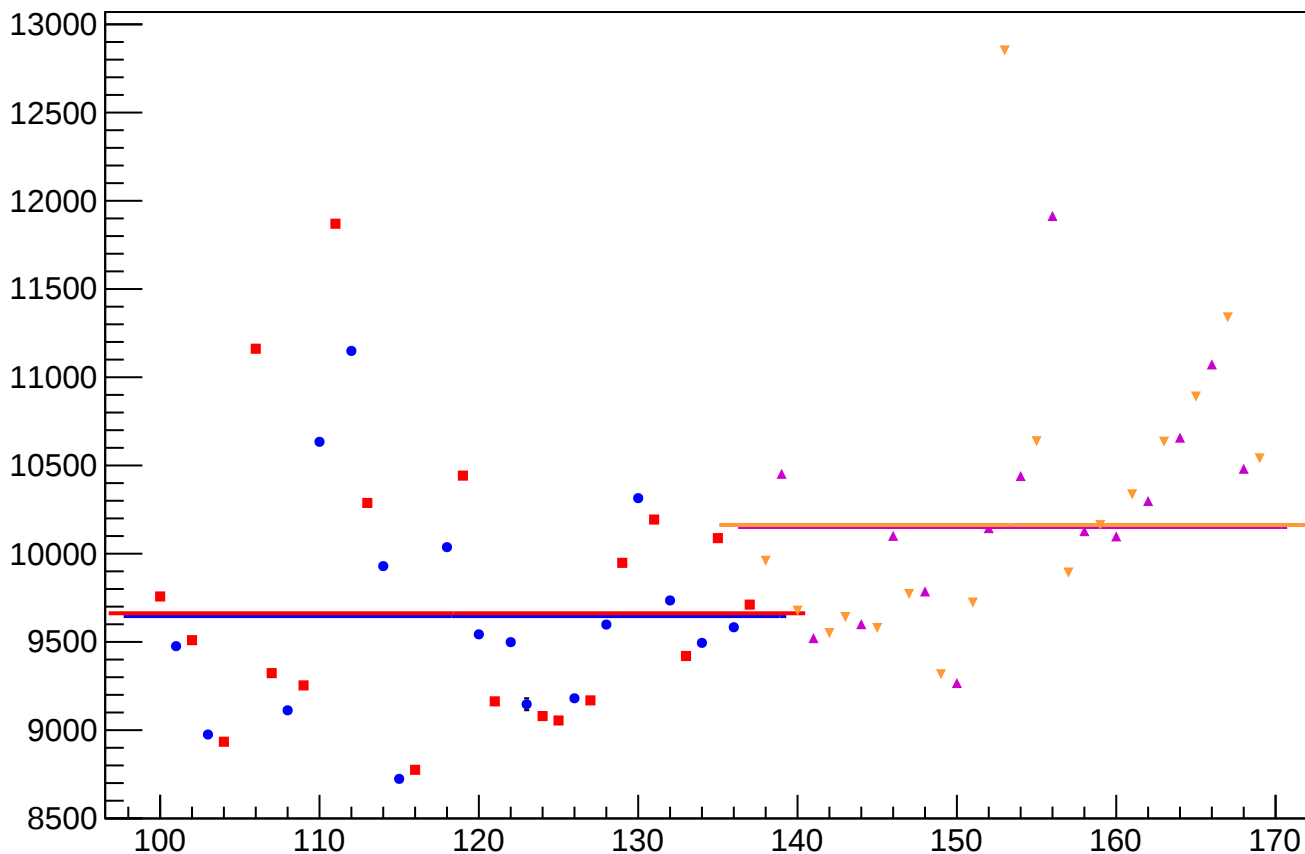
Right: -30.113 $\pm$ 2.601 χ^2/NDF : 306.8/35

In: -1.516 $\pm$ 2.326 χ^2/NDF : 524.5/31

Out: -3.717 $\pm$ 2.247 χ^2/NDF : 116.9/35

All: -2.655 $\pm$ 1.616 χ^2/NDF : 641.9/67

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480 $\pm$ 2.637 χ^2 /NDF: 44060.3/16

Left Out: 10162.891 $\pm$ 2.024 χ^2 /NDF: 137965.6/16

Right Out: 9662.363 $\pm$ 2.567 χ^2 /NDF: 77584.0/18

Left In: 10151.324 $\pm$ 2.104 χ^2 /NDF: 79641.3/14

Left: 10157.332 $\pm$ 1.459 χ^2 /NDF: 217622.6/31

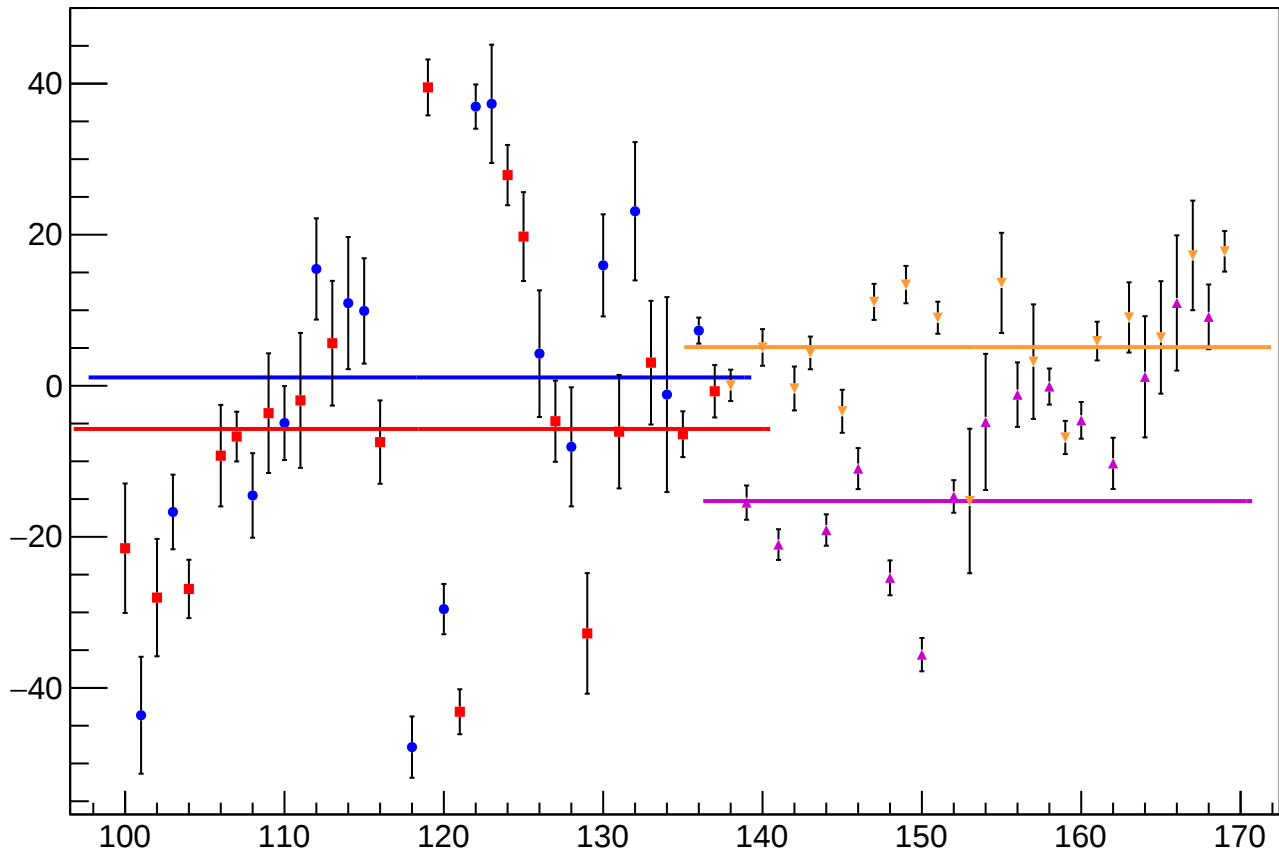
Right: 9654.635 $\pm$ 1.839 χ^2 /NDF: 121662.9/35

In: 9954.917 $\pm$ 1.645 χ^2 /NDF: 146099.6/31

Out: 9971.008 $\pm$ 1.589 χ^2 /NDF: 239001.7/35

All: 9963.239 $\pm$ 1.143 χ^2 /NDF: 385150.8/67

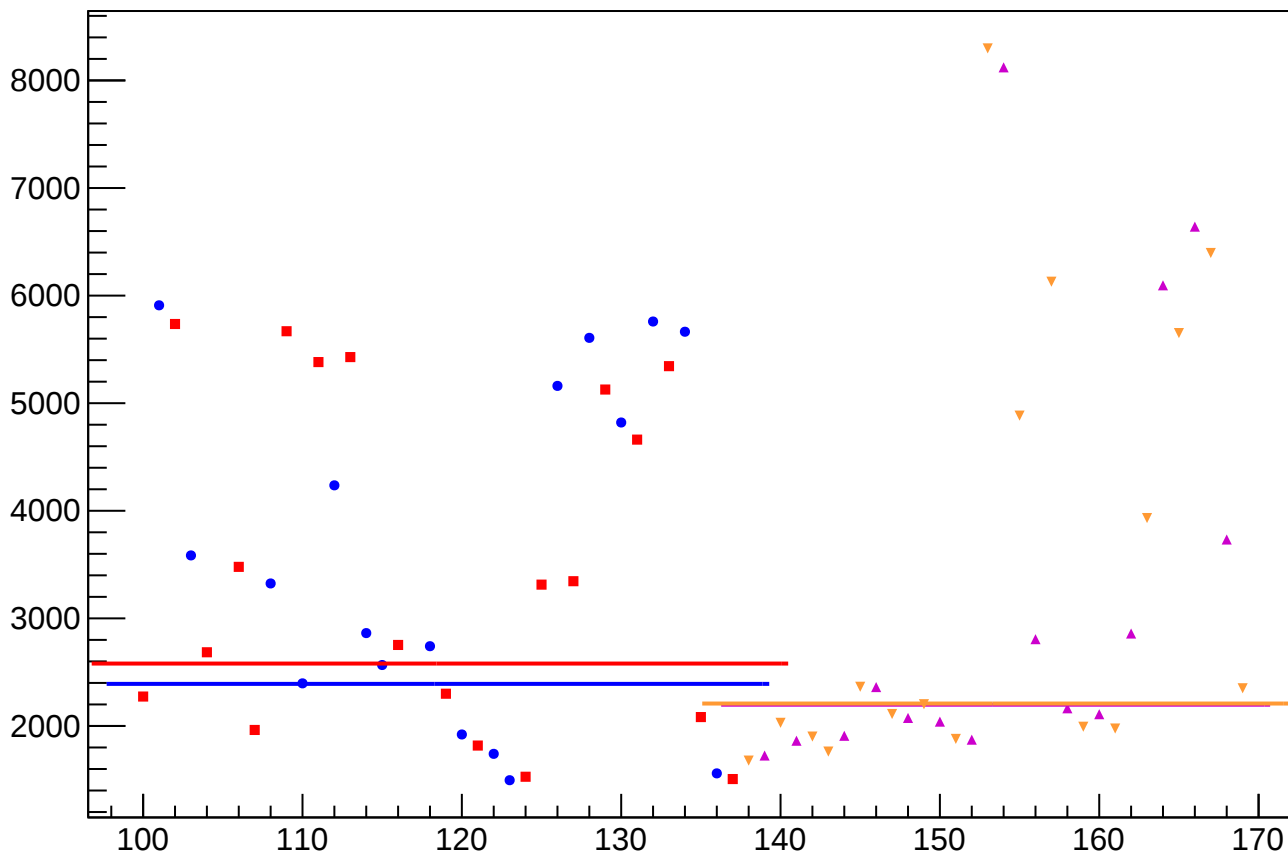
diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 χ^2/NDF : 489.7/16
 Left Out: 5.118 ± 0.698 χ^2/NDF : 101.3/16
 Right Out: -5.716 ± 1.091 χ^2/NDF : 456.0/18
 Left In: -15.261 ± 0.708 χ^2/NDF : 237.8/14

Left: -4.930 ± 0.497 χ^2/NDF : 759.1/31
 Right: -2.227 ± 0.763 χ^2/NDF : 965.6/35
 In: -10.254 ± 0.590 χ^2/NDF : 891.0/31
 Out: 1.970 ± 0.588 χ^2/NDF : 627.2/35
 All: -4.124 ± 0.416 χ^2/NDF : 1733.5/67

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2208.462 $\pm$ 0.494 χ^2 /NDF: 3388841.9/16

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: 2203.058 $\pm$ 0.352 χ^2 /NDF: 5843757.9/31

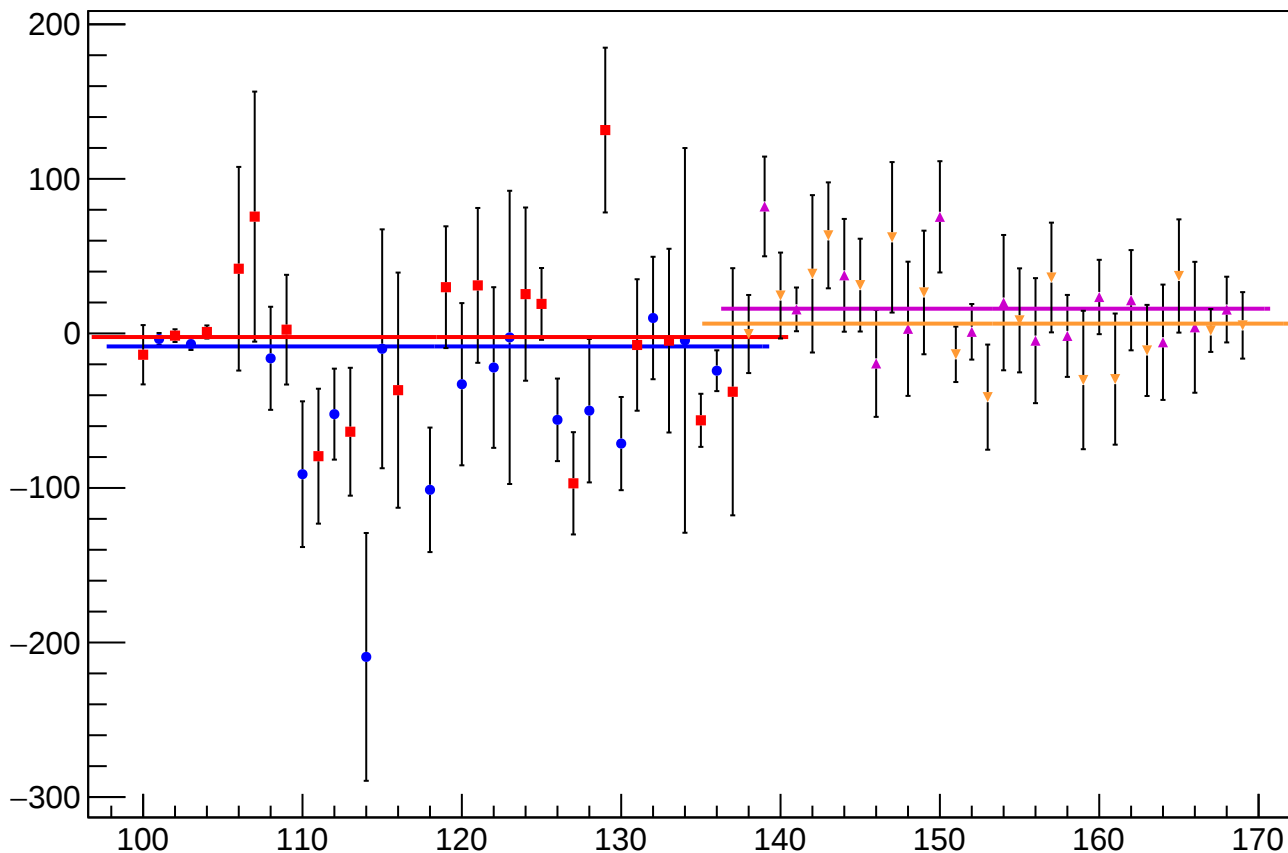
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

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

Out: 2316.421 $\pm$ 0.416 χ^2 /NDF: 5918669.6/35

All: 2286.671 $\pm$ 0.294 χ^2 /NDF: 11029930.3/66

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 ± 2.587 $\chi^2/\text{NDF}: 28.9/16$

Left Out: 6.335 ± 6.711 $\chi^2/\text{NDF}: 12.4/16$

Right Out: -2.348 ± 2.787 $\chi^2/\text{NDF}: 34.7/18$

Left In: 15.985 ± 6.957 $\chi^2/\text{NDF}: 10.4/14$

Left: 10.986 ± 4.830 $\chi^2/\text{NDF}: 23.7/31$

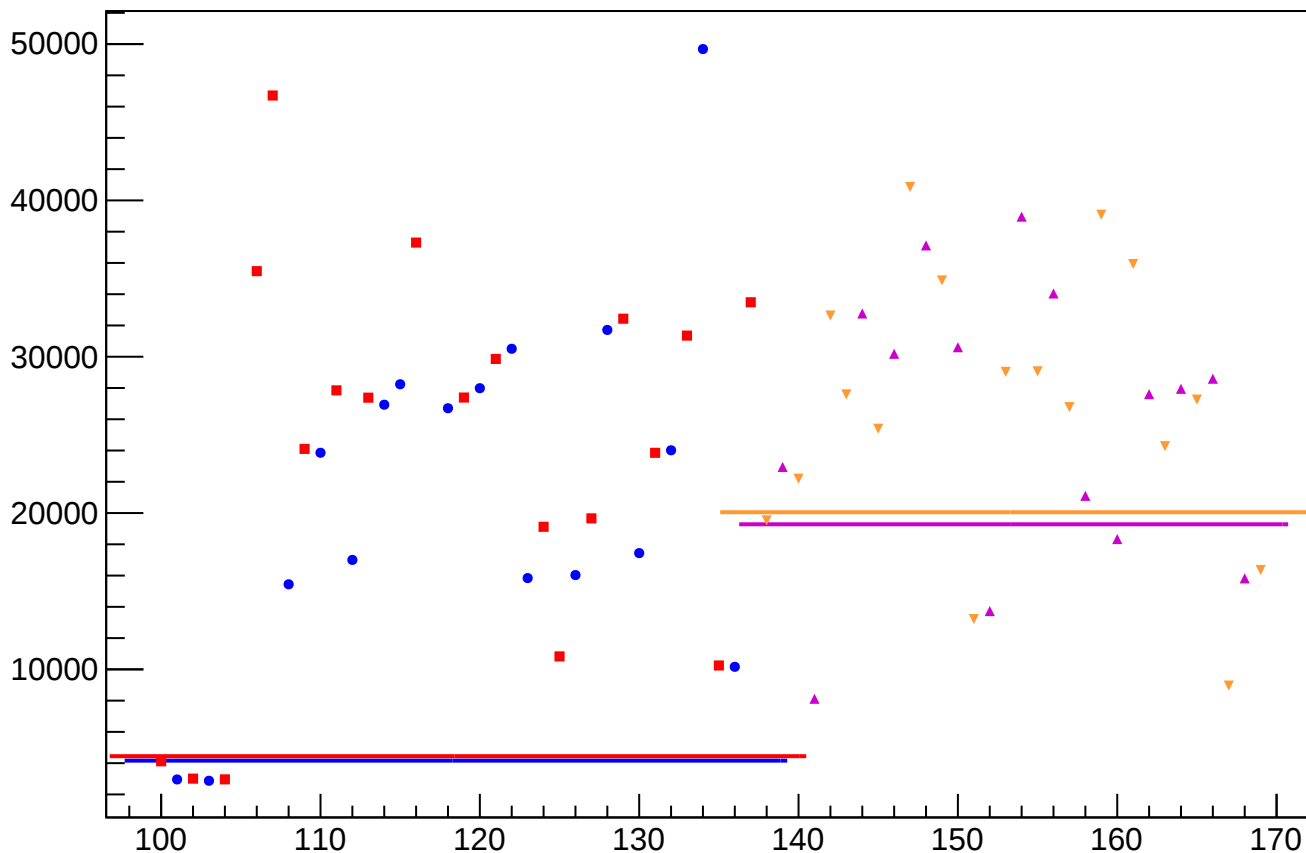
Right: -5.615 ± 1.896 $\chi^2/\text{NDF}: 66.1/35$

In: -5.463 ± 2.425 $\chi^2/\text{NDF}: 50.1/31$

Out: -1.071 ± 2.574 $\chi^2/\text{NDF}: 48.5/35$

All: -3.398 ± 1.765 $\chi^2/\text{NDF}: 100.1/67$

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 20053.453+/-4.746 χ^2/NDF : 3675454.7/16

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: 19681.001+/-3.415 χ^2/NDF : 7230161.3/31

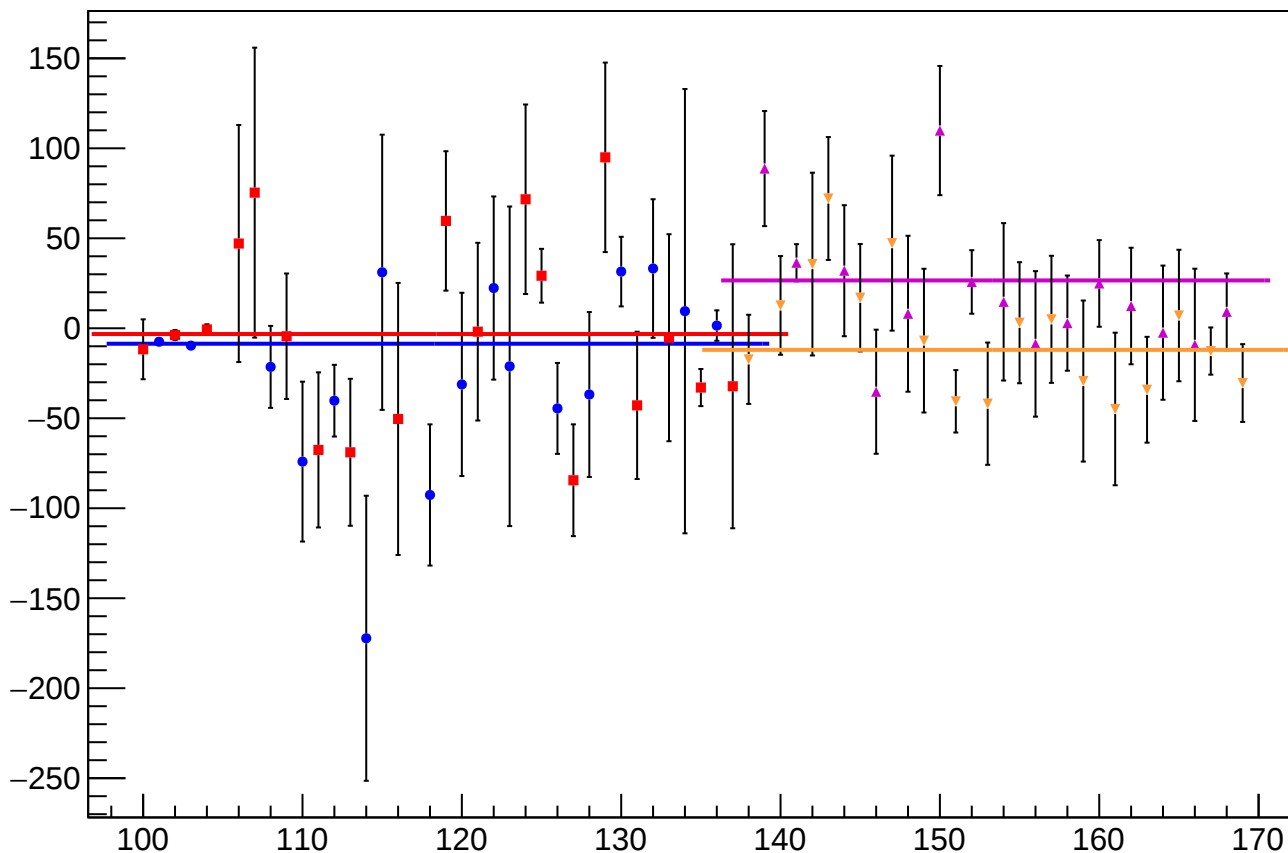
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

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

Out: 6742.378+/-1.820 χ^2/NDF : 20326837.0/35

All: 6348.792+/-1.248 χ^2/NDF : 38244068.4/66

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -11.991 $\pm$ 6.568 χ^2/NDF : 16.5/16

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: 8.109 $\pm$ 4.546 χ^2/NDF : 51.8/31

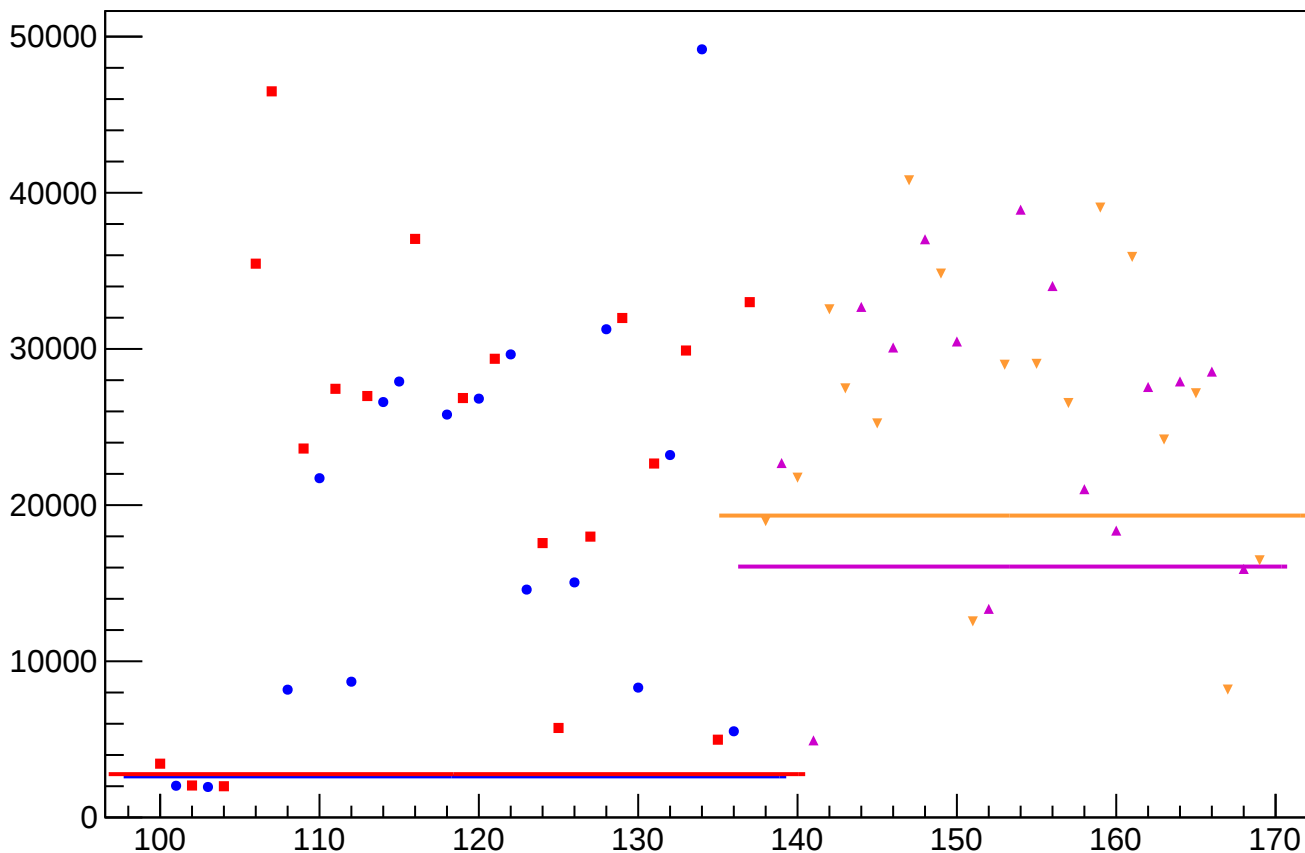
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

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

Out: -3.888 $\pm$ 1.845 χ^2/NDF : 55.0/35

All: -5.018 $\pm$ 1.254 χ^2/NDF : 126.3/67

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547 $\pm$ 1.257 χ^2/NDF : 5588981.6/16

Left Out: 19330.571 $\pm$ 4.644 χ^2/NDF : 4072091.4/16

Right Out: 2773.446 $\pm$ 1.359 χ^2/NDF : 7835878.7/18

Left In: 16064.870 $\pm$ 4.453 χ^2/NDF : 5659839.4/14

Left: 17629.097 $\pm$ 3.214 χ^2/NDF : 9989522.4/31

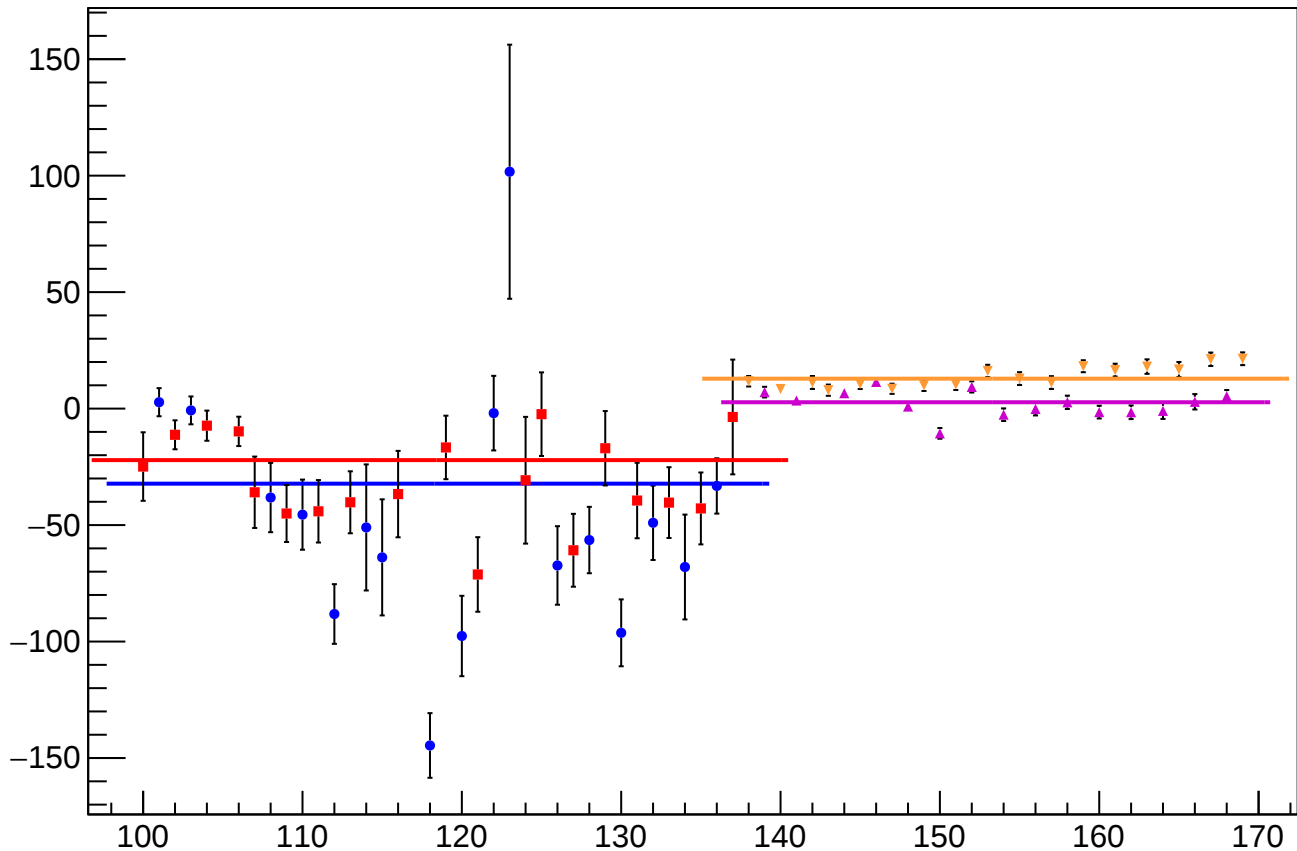
Right: 2696.425 $\pm$ 0.923 χ^2/NDF : 13430817.7/35

In: 3622.035 $\pm$ 1.210 χ^2/NDF : 19678102.2/31

Out: 4079.647 $\pm$ 1.305 χ^2/NDF : 23614036.0/35

All: 3833.625 $\pm$ 0.887 χ^2/NDF : 43358295.2/6

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.222 $\pm$ 2.981 χ^2/NDF : 203.7/16

Left Out: 12.850 $\pm$ 0.617 χ^2/NDF :47.0/16

Right Out: -22.111 $\pm$ 2.669 χ^2/NDF : 43.7/18

Left In: 2.729 $\pm$ 0.645 χ^2/NDF :78.1/14

Left: 8.014 $\pm$ 0.446 χ^2/NDF : 253.8/31

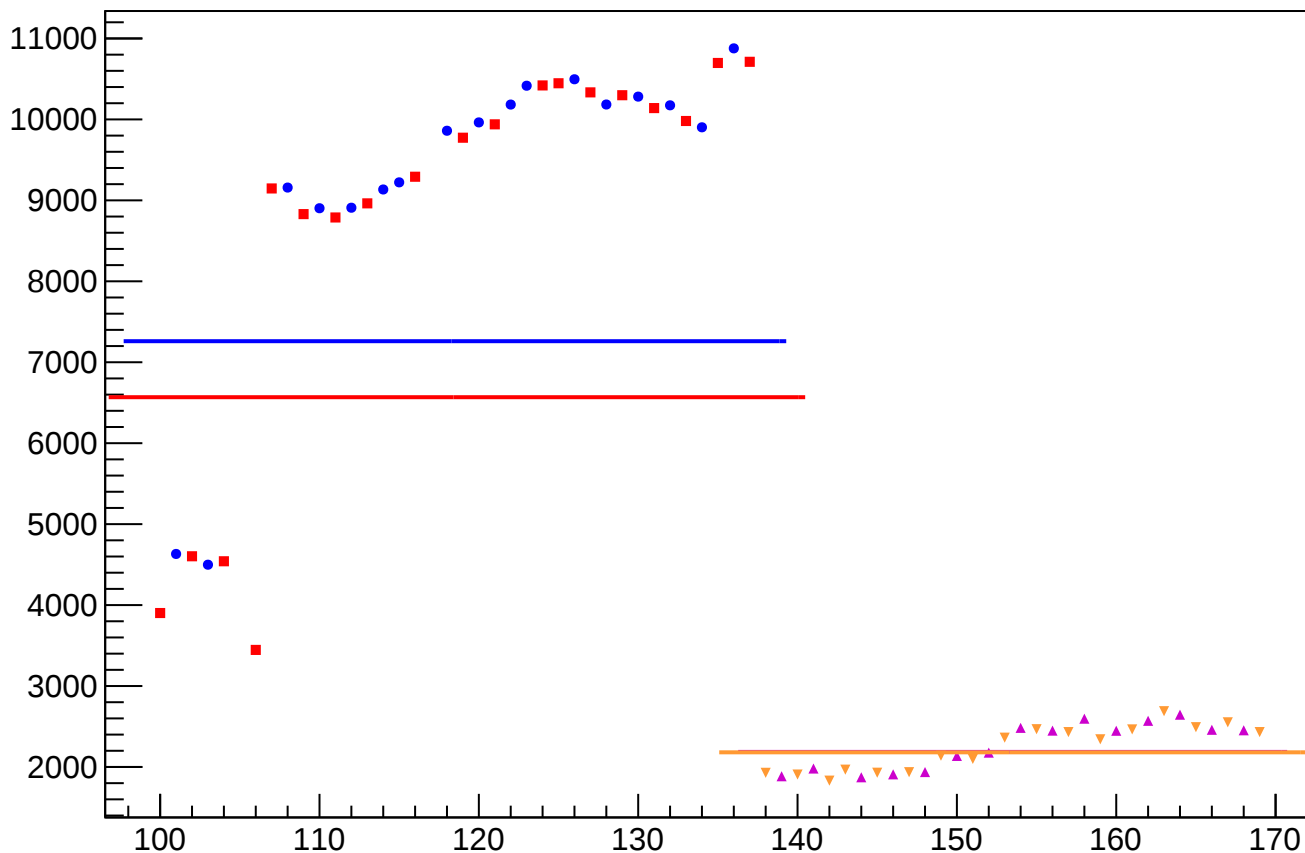
Right: -26.609 $\pm$ 1.989 χ^2/NDF : 253.7/35

In: 1.168 $\pm$ 0.630 χ^2/NDF :413.1/31

Out: 11.078 $\pm$ 0.601 χ^2/NDF :253.5/35

All: 6.358 $\pm$ 0.435 χ^2/NDF : 796.1/67

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081+/-2.108 χ^2/NDF : 1636373.2/16

Left Out: 2180.968+/-0.436 χ^2/NDF : 357219.9/16

Right Out: 6568.180+/-1.887 χ^2/NDF : 2196546.0/18

Left In: 2186.083+/-0.456 χ^2/NDF : 367526.5/14

Left: 2183.412+/-0.315 χ^2/NDF : 724812.2/31

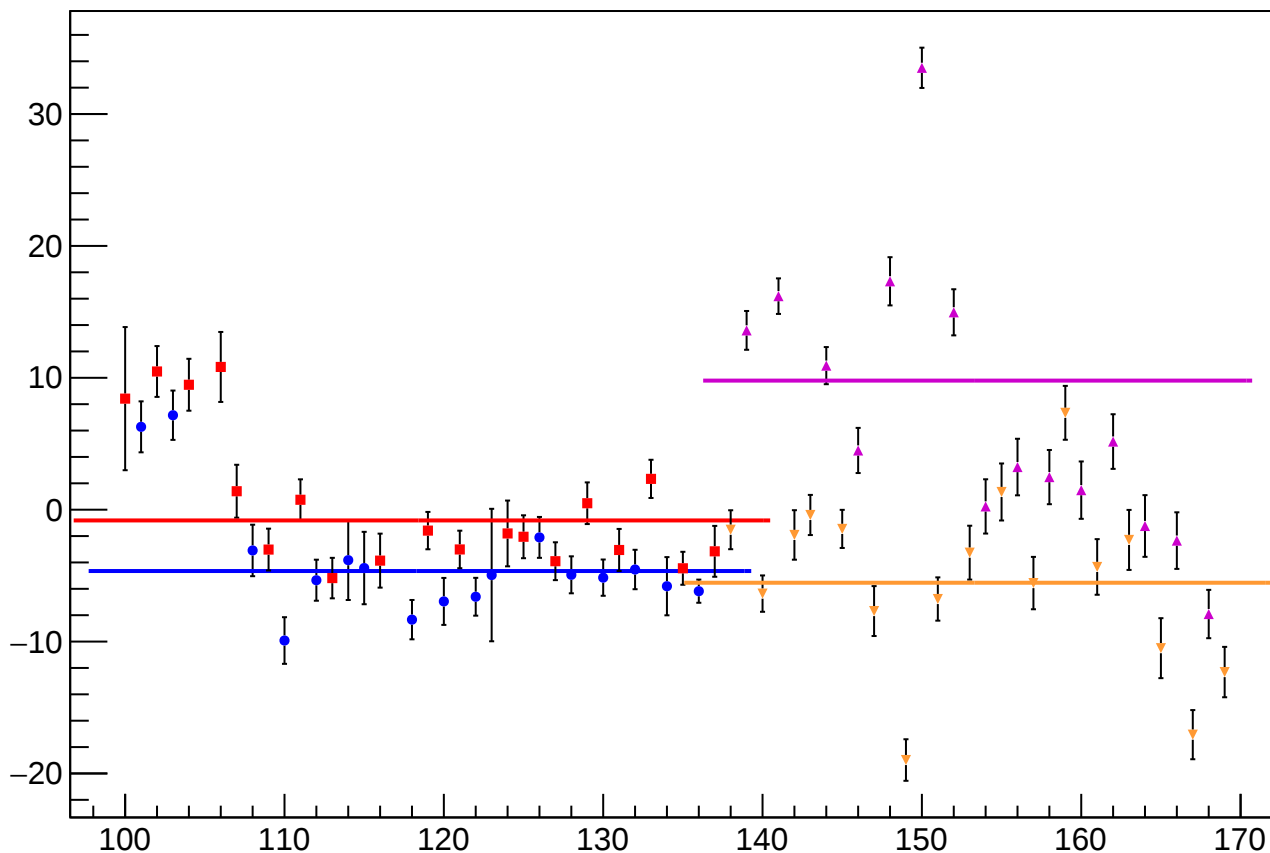
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2412.735+/-0.446 χ^2/NDF : 7537964.8/31

Out: 2403.316+/-0.425 χ^2/NDF : 7682649.8/35

All: 2407.802+/-0.308 χ^2/NDF : 15220848.7/66

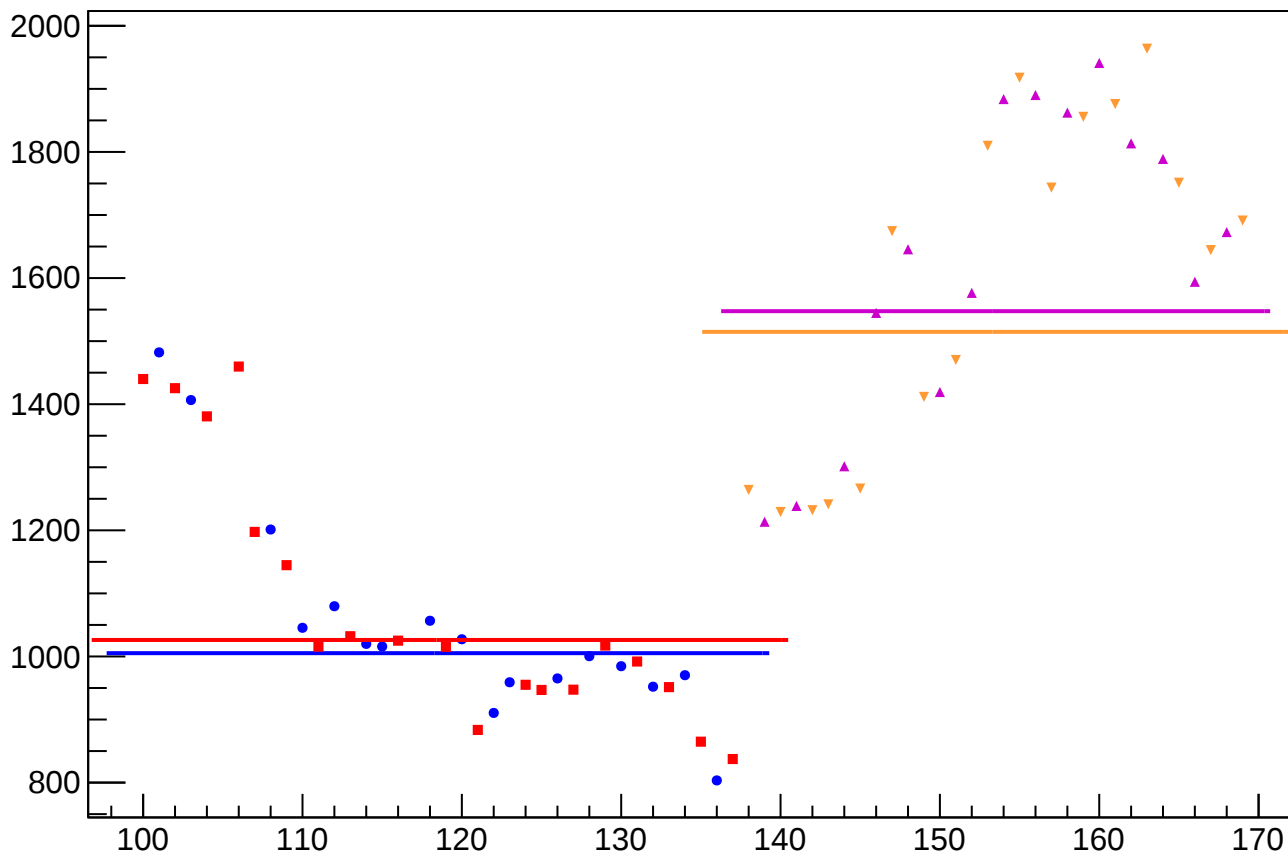
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -5.539 ± 0.432 $\chi^2/\text{NDF}: 214.6/16$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 9.788 ± 0.459 $\chi^2/\text{NDF}: 517.0/14$

Left: 1.664 ± 0.315 $\chi^2/\text{NDF}: 1322.5/31$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 1.449 ± 0.298 $\chi^2/\text{NDF}: 1185.9/31$
 Out: -2.926 ± 0.289 $\chi^2/\text{NDF}: 404.3/35$
 All: -0.808 ± 0.208 $\chi^2/\text{NDF}: 1701.2/67$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1514.713 ± 0.306 χ^2/NDF : 715342.4/16

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: 1530.131 ± 0.223 χ^2/NDF : 1291674.4/31

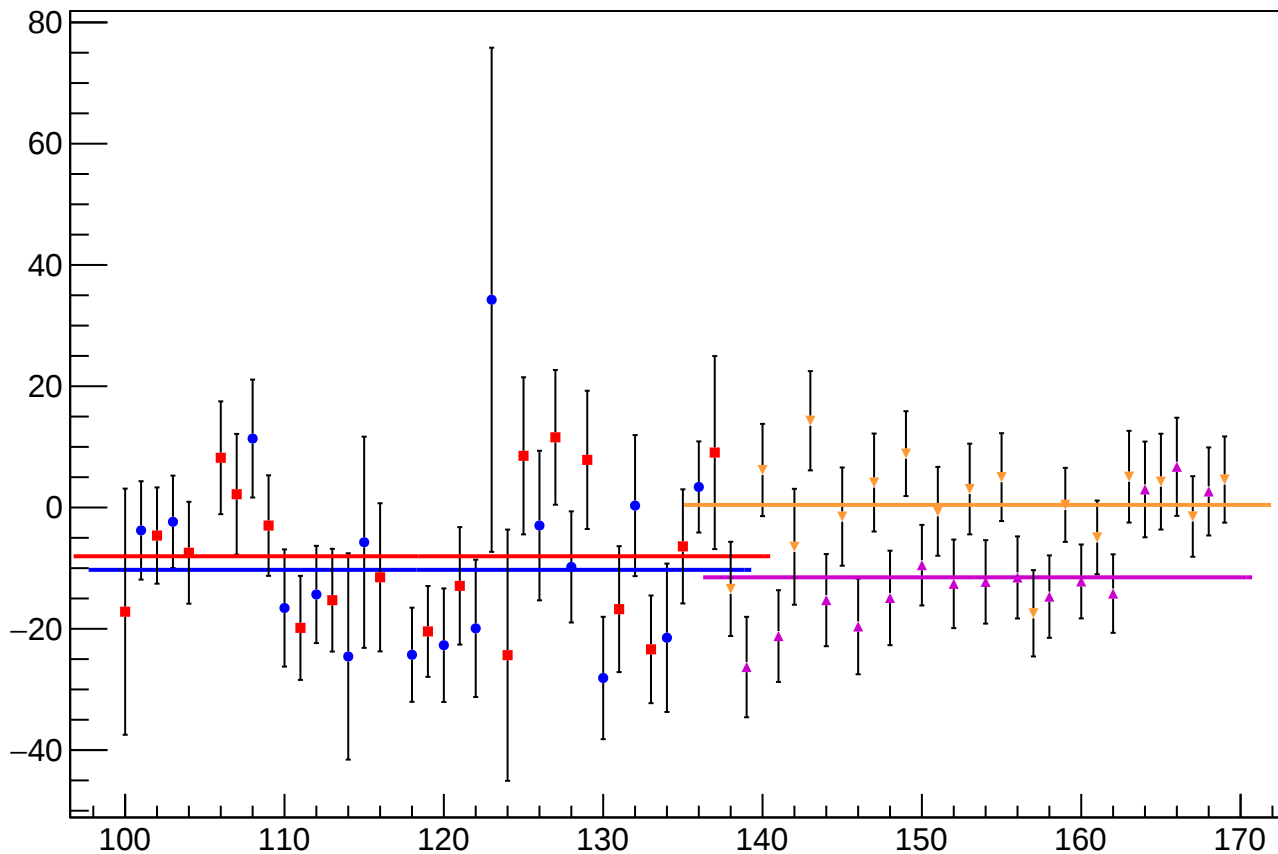
Right: 1015.803 ± 0.195 χ^2/NDF : 697945.4/35

In: 1234.338 ± 0.211 χ^2/NDF : 2544819.9/31

Out: 1244.485 ± 0.204 χ^2/NDF : 2461875.4/35

All: 1239.575 ± 0.147 χ^2/NDF : 5007889.1/67

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: 0.432 ± 1.779 $\chi^2/\text{NDF}: 17.5/16$

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

Left In: -11.510 ± 1.860 $\chi^2/\text{NDF}: 19.1/14$

Left: -5.273 ± 1.286 $\chi^2/\text{NDF}: 58.2/31$

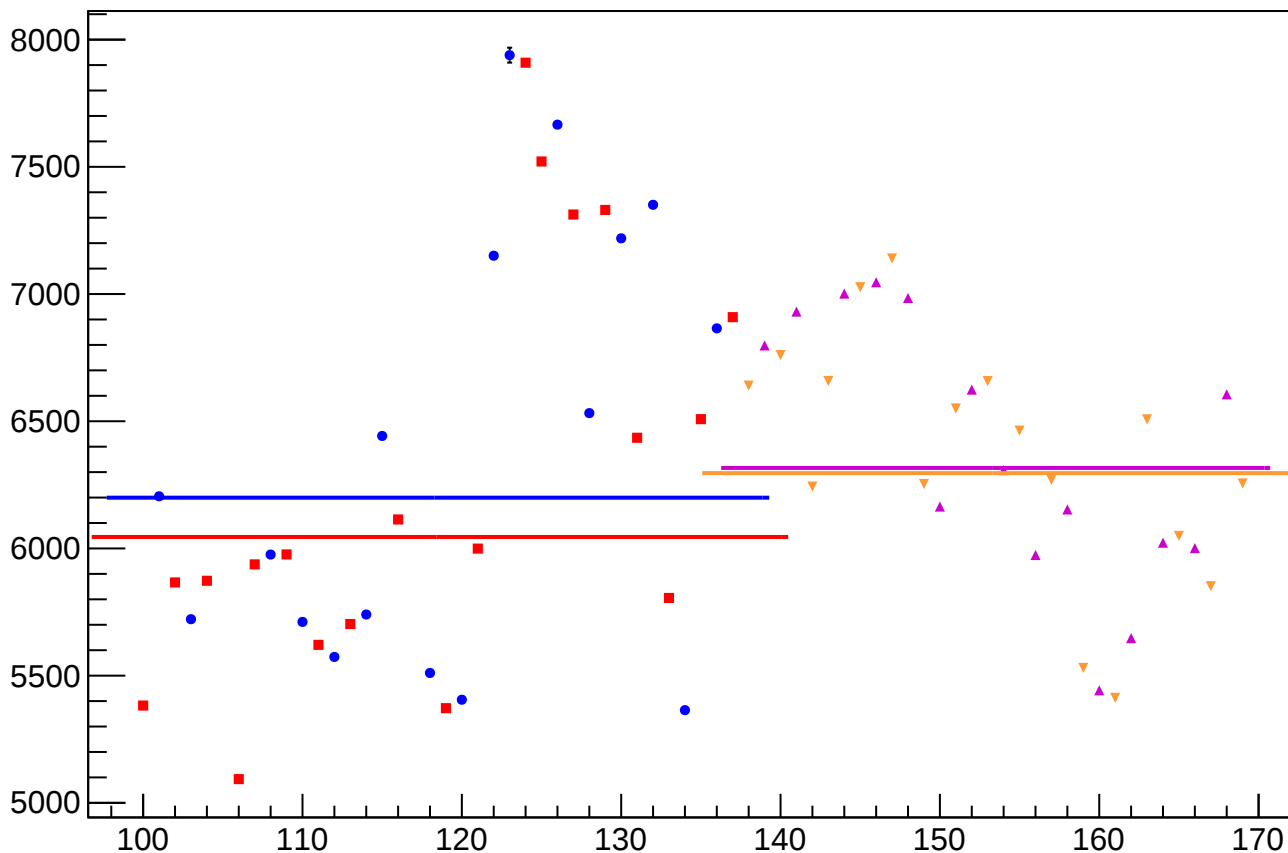
Right: -9.097 ± 1.655 $\chi^2/\text{NDF}: 46.7/35$

In: -11.049 ± 1.472 $\chi^2/\text{NDF}: 42.7/31$

Out: -2.777 ± 1.402 $\chi^2/\text{NDF}: 48.9/35$

All: -6.712 ± 1.015 $\chi^2/\text{NDF}: 108.2/67$

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6296.052 $\pm$ 1.258 χ^2 /NDF:147983.4/16

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: 6305.803 $\pm$ 0.909 χ^2 /NDF: 298502.1/31

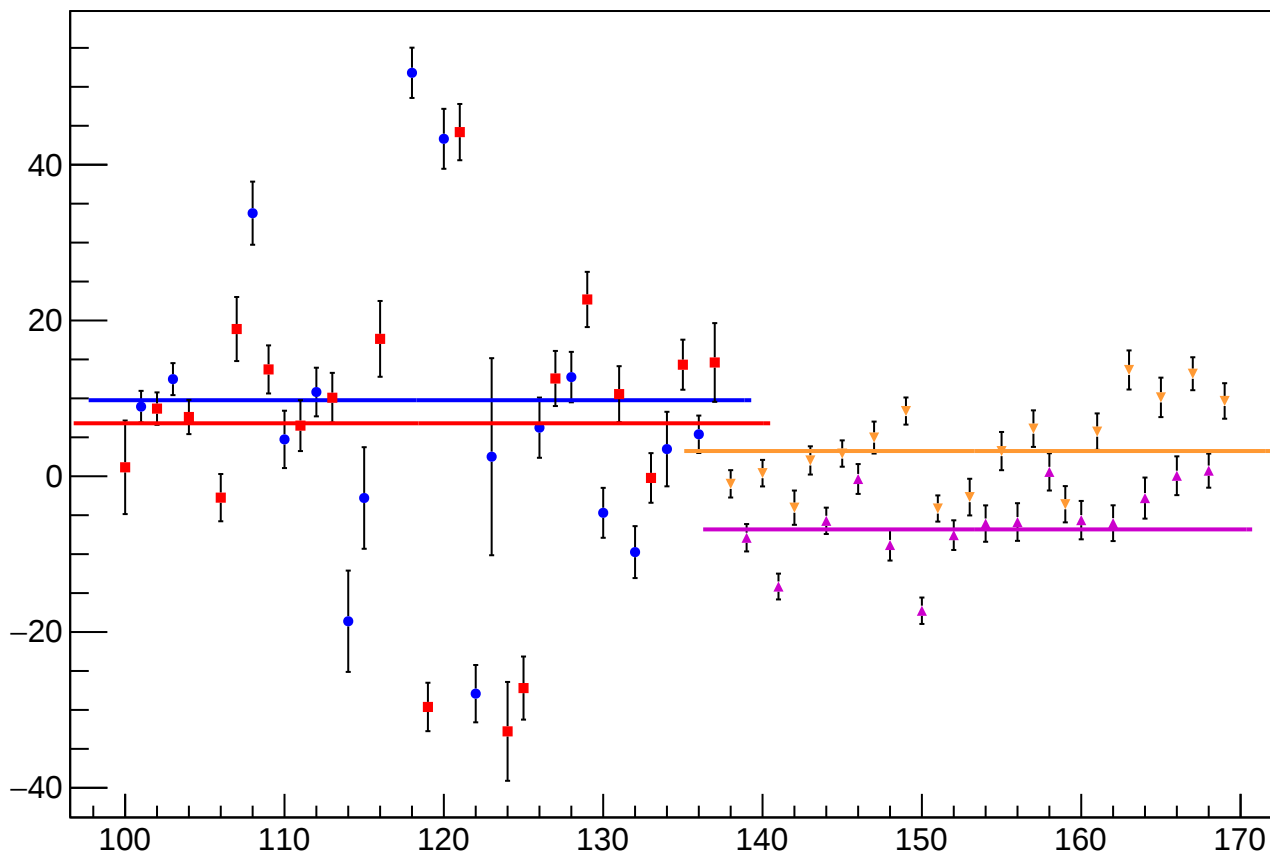
Right: 6118.133 $\pm$ 1.170 χ^2 /NDF: 334424.9/35

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

Out: 6201.023 $\pm$ 0.992 χ^2 /NDF:321370.4/35

All: 6235.163 $\pm$ 0.718 χ^2 /NDF: 648965.3/67

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 $\pm$ 0.797 χ^2/NDF : 473.8/16

Left Out: 3.239 $\pm$ 0.495 χ^2/NDF :120.7/16

Right Out: 6.801 $\pm$ 0.765 χ^2/NDF : 421.8/18

Left In: -6.824 $\pm$ 0.529 χ^2/NDF :102.9/14

Left: -1.466 $\pm$ 0.361 χ^2/NDF : 416.5/31

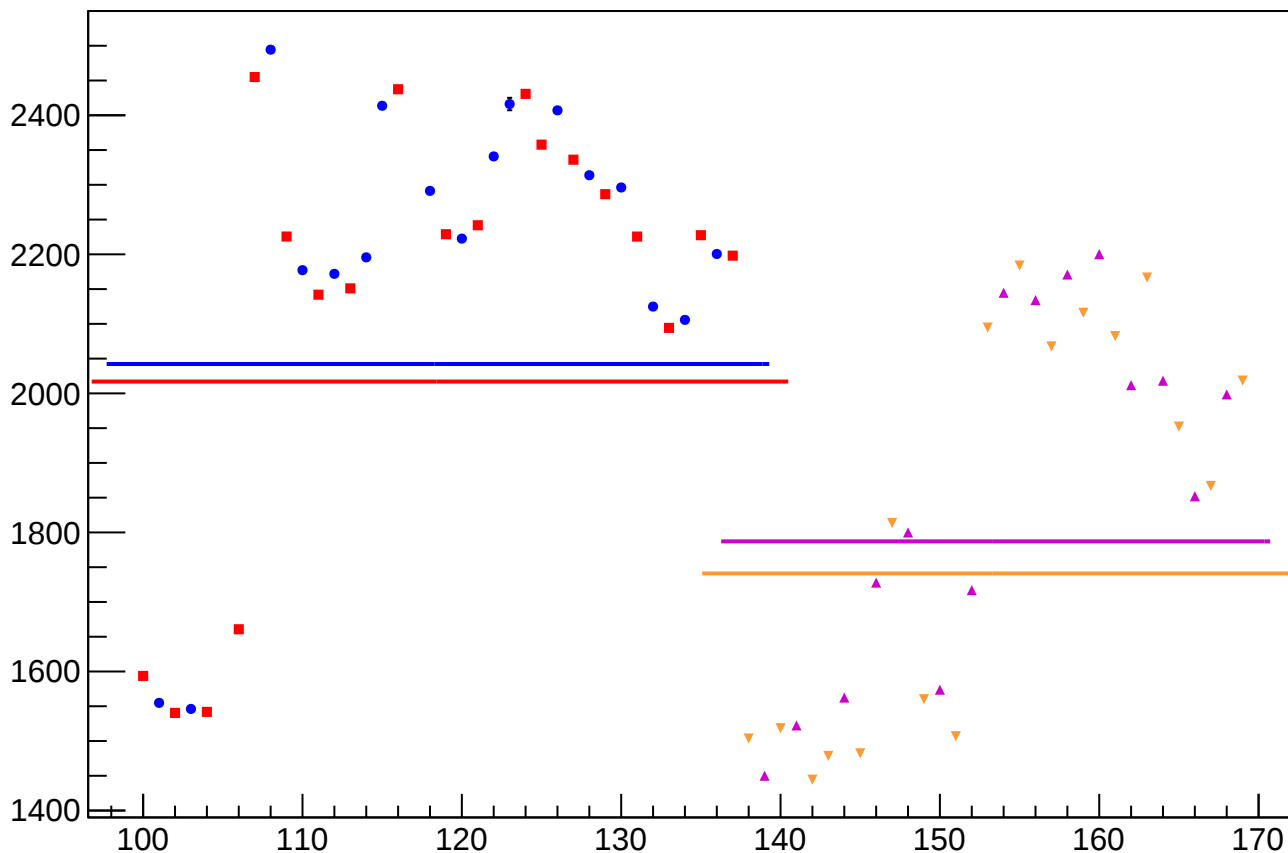
Right: 8.222 $\pm$ 0.552 χ^2/NDF : 902.8/35

In: -1.755 $\pm$ 0.440 χ^2/NDF :877.6/31

Out: 4.292 $\pm$ 0.416 χ^2/NDF :557.8/35

All: 1.443 $\pm$ 0.302 χ^2/NDF : 1535.0/67

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1741.026 $\pm$ 0.350 χ^2/NDF : 610192.0/16

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

Left In: 1787.160 $\pm$ 0.374 χ^2/NDF : 446340.2/14

Left: 1762.597 $\pm$ 0.256 χ^2/NDF : 1064643.8/31

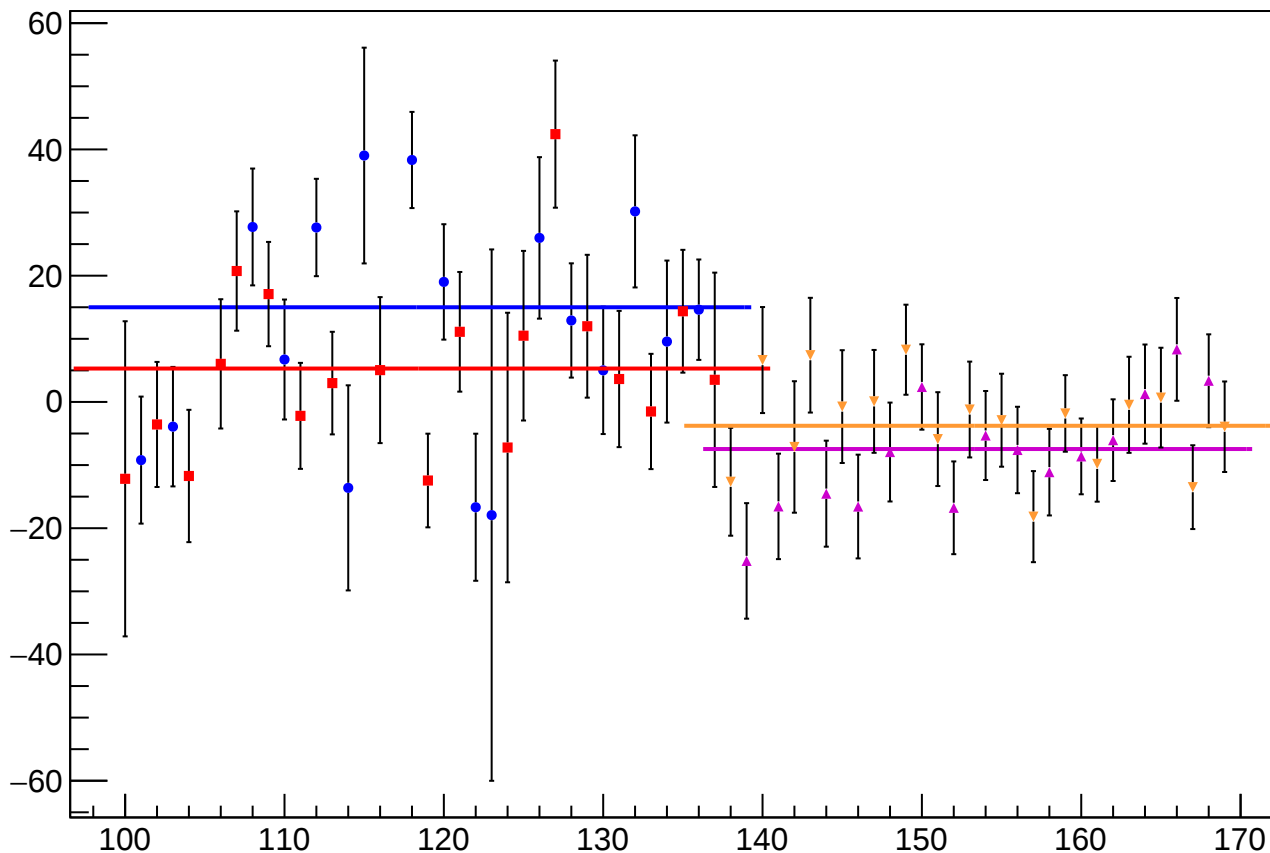
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

In: 1865.115 $\pm$ 0.311 χ^2/NDF : 945510.3/31

Out: 1822.596 $\pm$ 0.294 χ^2/NDF : 1169327.9/35

All: 1842.629 $\pm$ 0.214 χ^2/NDF : 2124693.4/67

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 ± 2.485 $\chi^2/\text{NDF}: 41.3/16$

Left Out: -3.775 ± 1.825 $\chi^2/\text{NDF}: 15.4/16$

Right Out: 5.291 ± 2.357 $\chi^2/\text{NDF}: 28.1/18$

Left In: -7.457 ± 1.903 $\chi^2/\text{NDF}: 18.2/14$

Left: -5.540 ± 1.317 $\chi^2/\text{NDF}: 35.6/31$

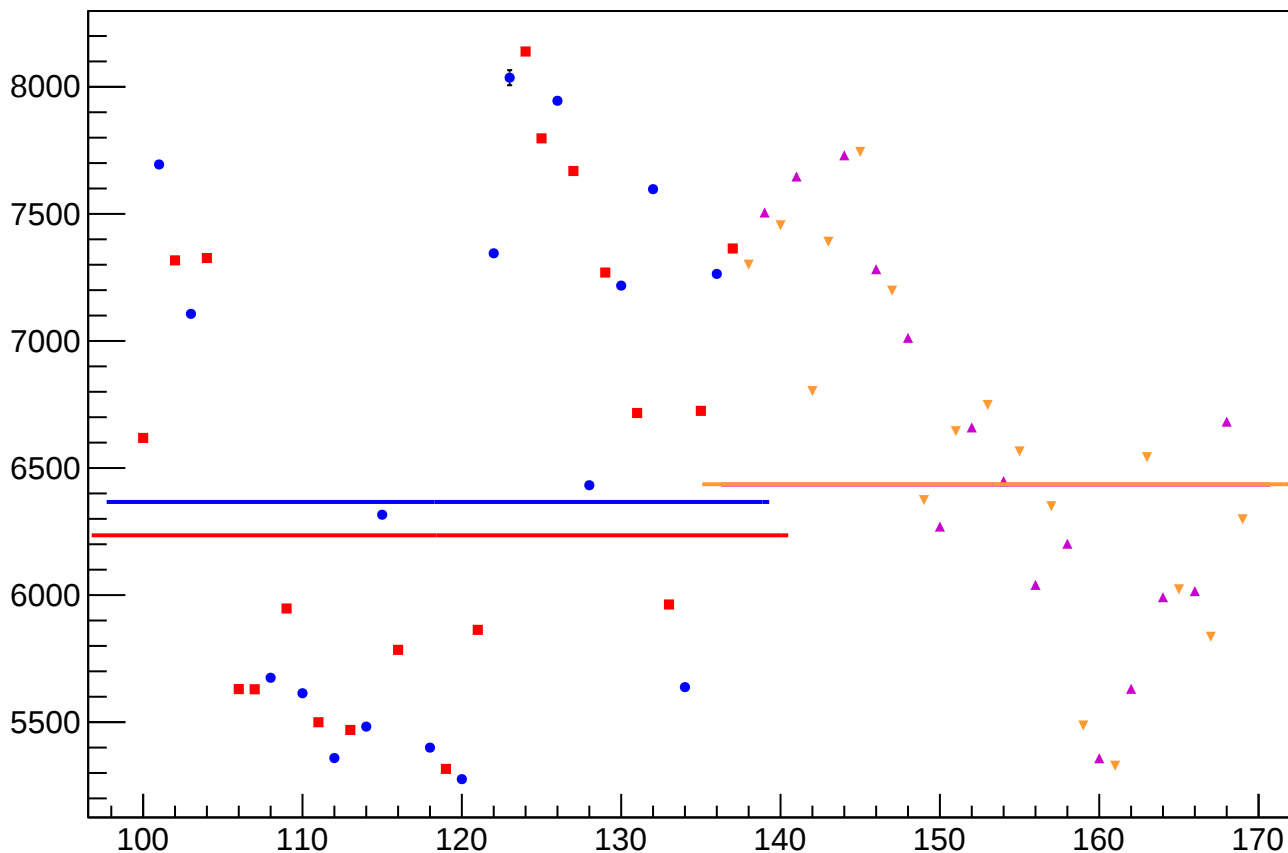
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: 0.841 ± 1.511 $\chi^2/\text{NDF}: 111.0/31$

Out: -0.377 ± 1.443 $\chi^2/\text{NDF}: 52.7/35$

All: 0.204 ± 1.044 $\chi^2/\text{NDF}: 164.0/67$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 ± 1.757 $\chi^2/\text{NDF}: 286494.5/16$

Left Out: 6436.153 ± 1.291 $\chi^2/\text{NDF}: 281182.8/16$

Right Out: 6235.179 ± 1.667 $\chi^2/\text{NDF}: 243204.0/18$

Left In: 6434.733 ± 1.346 $\chi^2/\text{NDF}: 270537.5/14$

Left: 6435.473 ± 0.931 $\chi^2/\text{NDF}: 551720.9/31$

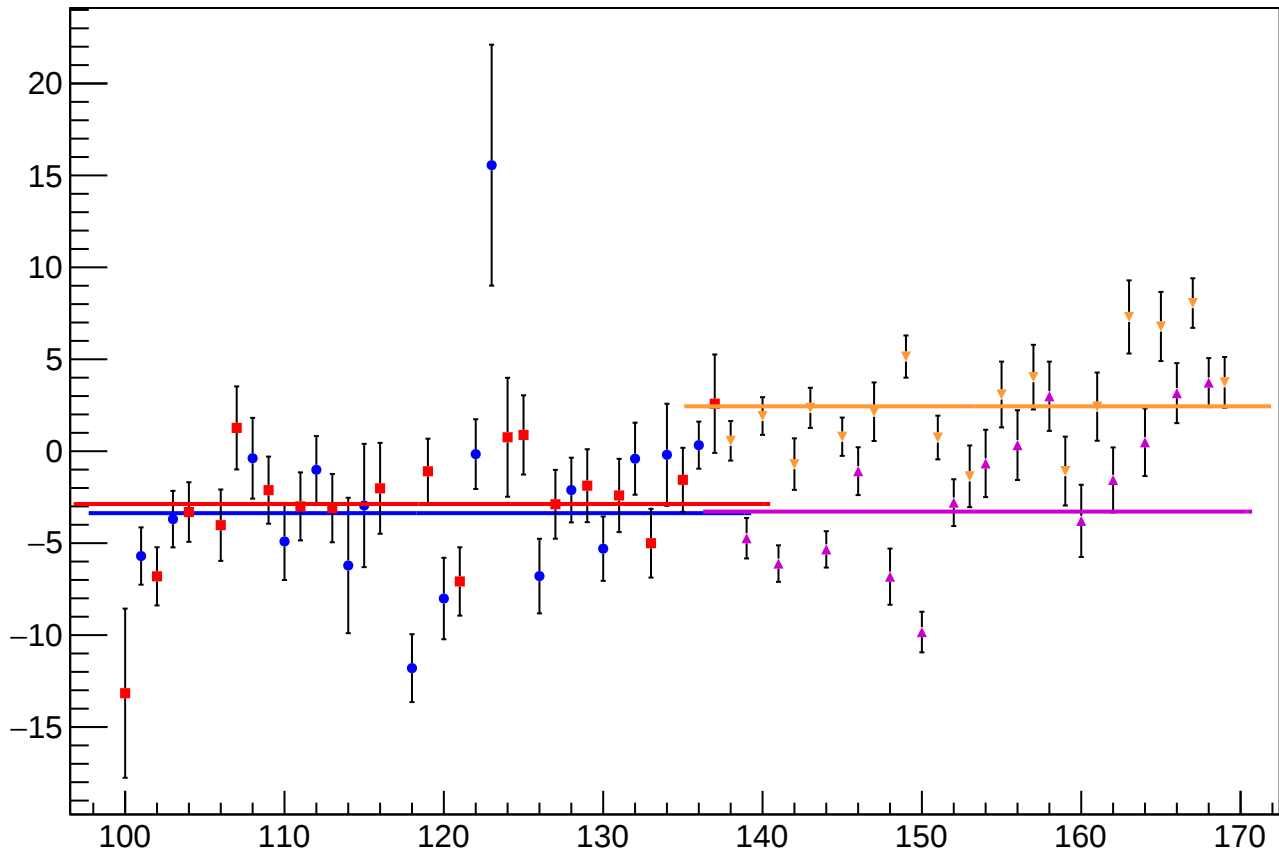
Right: 6297.369 ± 1.209 $\chi^2/\text{NDF}: 532637.5/35$

In: 6409.512 ± 1.068 $\chi^2/\text{NDF}: 557982.6/31$

Out: 6360.819 ± 1.021 $\chi^2/\text{NDF}: 533474.1/35$

All: 6384.052 ± 0.738 $\chi^2/\text{NDF}: 1092542.9/67$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 ± 0.476 $\chi^2/\text{NDF}: 59.9/16$

Left Out: 2.443 ± 0.331 $\chi^2/\text{NDF}: 57.7/16$

Right Out: -2.871 ± 0.456 $\chi^2/\text{NDF}: 32.0/18$

Left In: -3.283 ± 0.354 $\chi^2/\text{NDF}: 123.0/14$

Left: -0.230 ± 0.242 $\chi^2/\text{NDF}: 320.4/31$

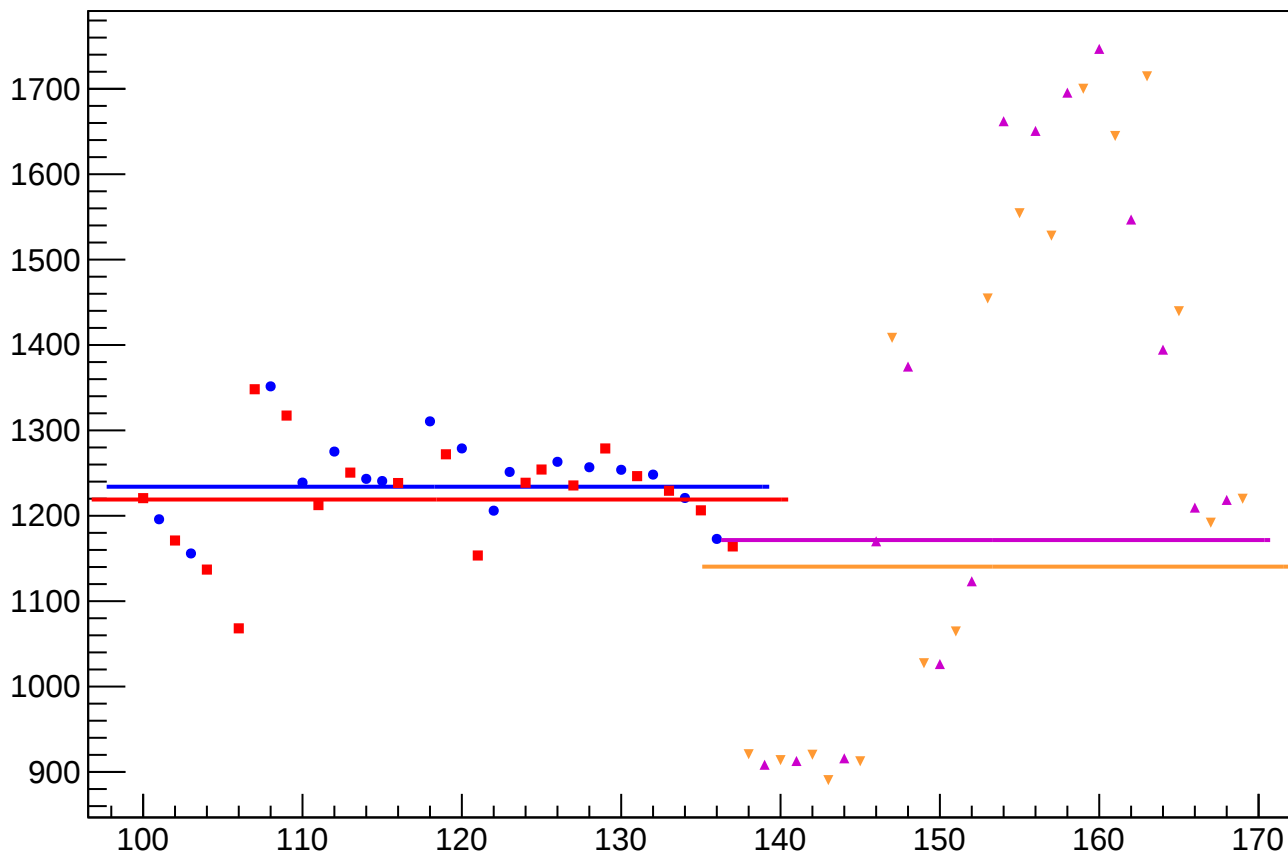
Right: -3.109 ± 0.329 $\chi^2/\text{NDF}: 92.5/35$

In: -3.314 ± 0.284 $\chi^2/\text{NDF}: 182.9/31$

Out: 0.612 ± 0.268 $\chi^2/\text{NDF}: 178.6/35$

All: -1.238 ± 0.195 $\chi^2/\text{NDF}: 462.7/67$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Left: 1154.967 ± 0.171 $\chi^2/\text{NDF}: 2529228.8/31$

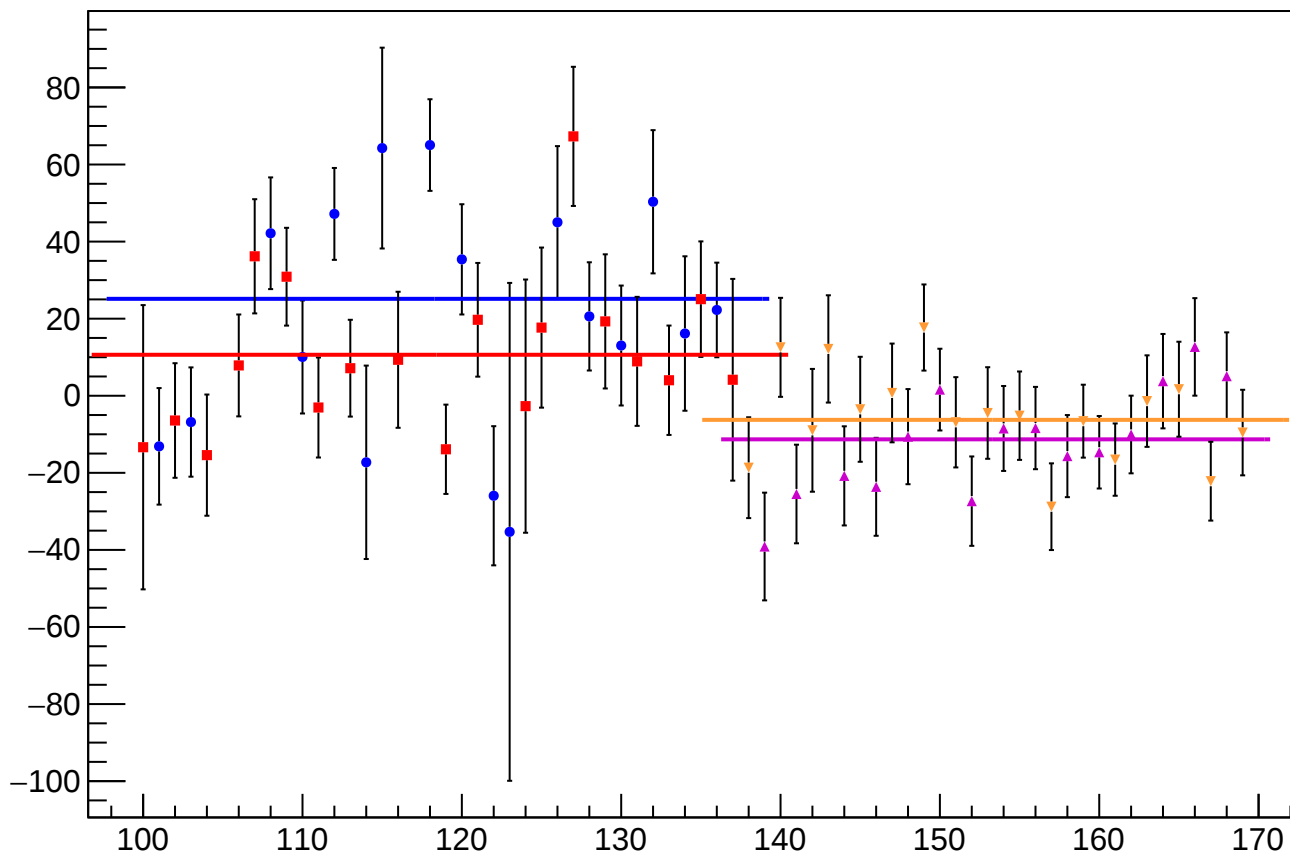
Right: 1226.229 ± 0.233 $\chi^2/\text{NDF}: 64970.2/35$

In: 1193.819 ± 0.201 $\chi^2/\text{NDF}: 1223077.2/31$

Out: 1167.522 ± 0.189 $\chi^2/\text{NDF}: 1422925.8/35$

All: 1179.912 ± 0.138 $\chi^2/\text{NDF}: 2655083.0/67$

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149+/-3.837 χ^2/NDF : 46.9/16

Left Out: -6.256+/-2.837 χ^2/NDF : 18.1/16

Right Out: 10.634+/-3.595 χ^2/NDF : 27.7/18

Left In: -11.312+/-2.962 χ^2/NDF : 17.7/14

Left: -8.674+/-2.049 χ^2/NDF : 37.3/31

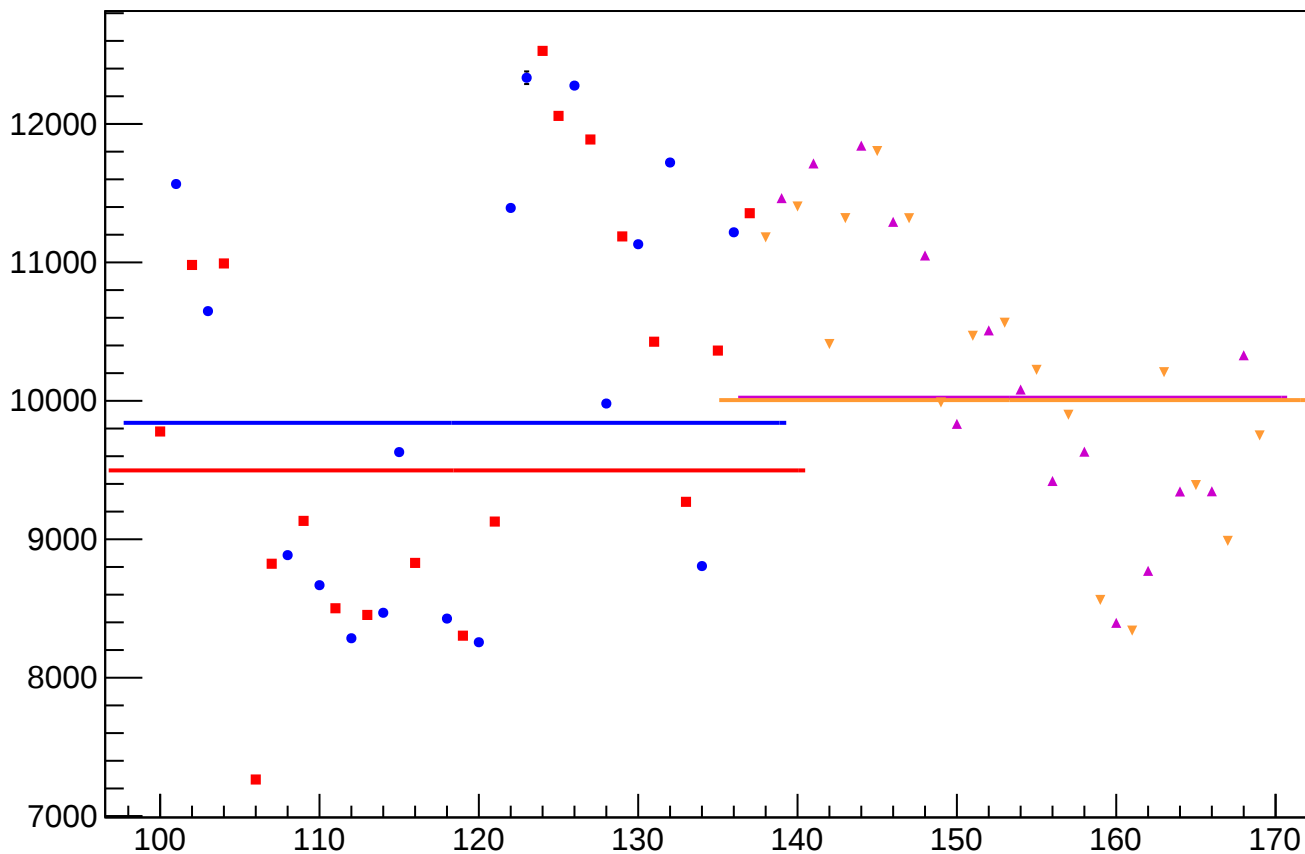
Right: 17.418+/-2.623 χ^2/NDF : 82.3/35

In: 2.302+/-2.345 χ^2/NDF : 121.2/31

Out: 0.226+/-2.227 χ^2/NDF : 59.4/35

All: 1.210+/-1.615 χ^2/NDF : 181.0/67

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9841.174 ± 2.713 $\chi^2/\text{NDF}: 260062.4/16$

Left Out: 10005.373 ± 2.006 $\chi^2/\text{NDF}: 259342.0/16$

Right Out: 9497.483 ± 2.542 $\chi^2/\text{NDF}: 276700.1/18$

Left In: 10022.689 ± 2.095 $\chi^2/\text{NDF}: 247254.4/14$

Left: 10013.656 ± 1.449 $\chi^2/\text{NDF}: 506632.1/31$

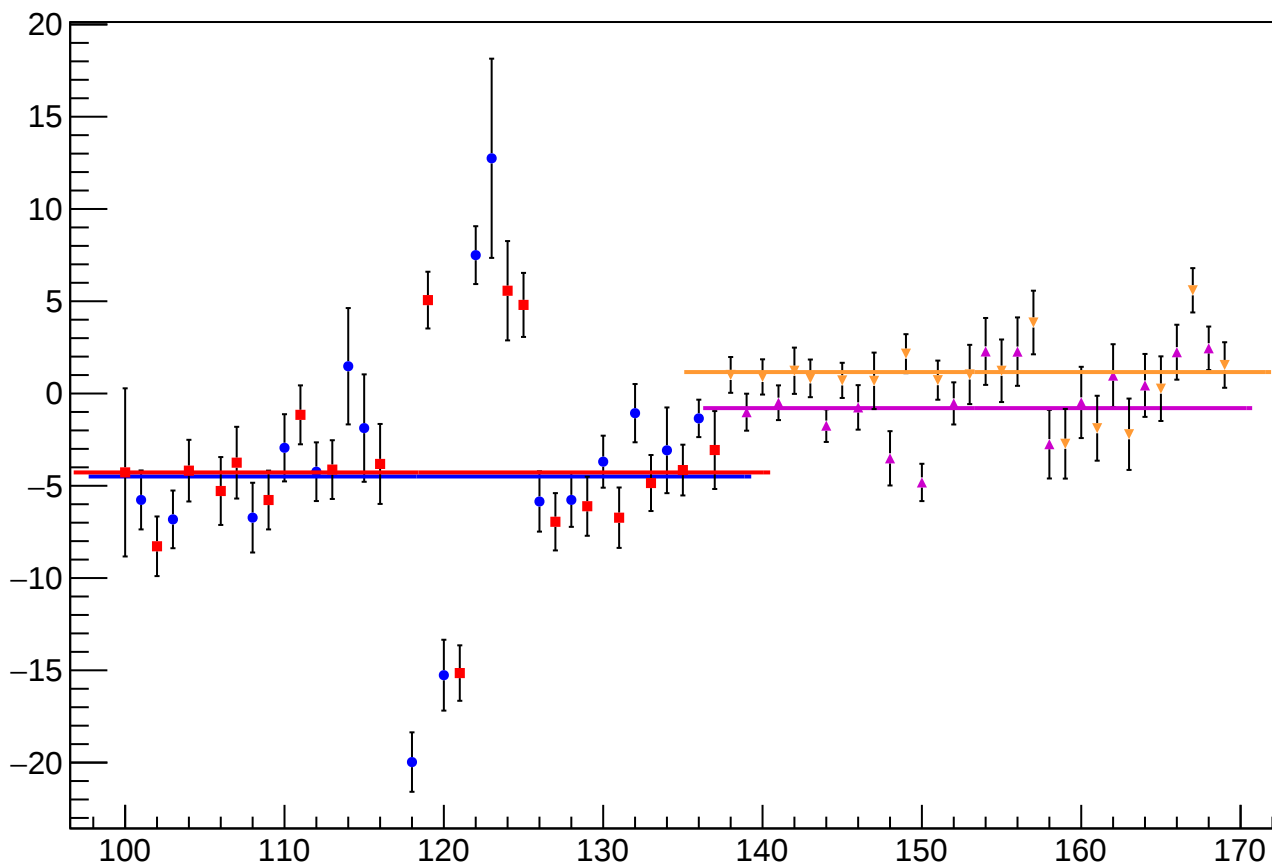
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9954.915 ± 1.658 $\chi^2/\text{NDF}: 510120.9/31$

Out: 9810.467 ± 1.575 $\chi^2/\text{NDF}: 560646.0/35$

All: 9878.965 ± 1.142 $\chi^2/\text{NDF}: 1074757.6/67$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 1.162 ± 0.306 χ^2/NDF : 28.3/16

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: 0.253 ± 0.224 χ^2/NDF : 88.0/31

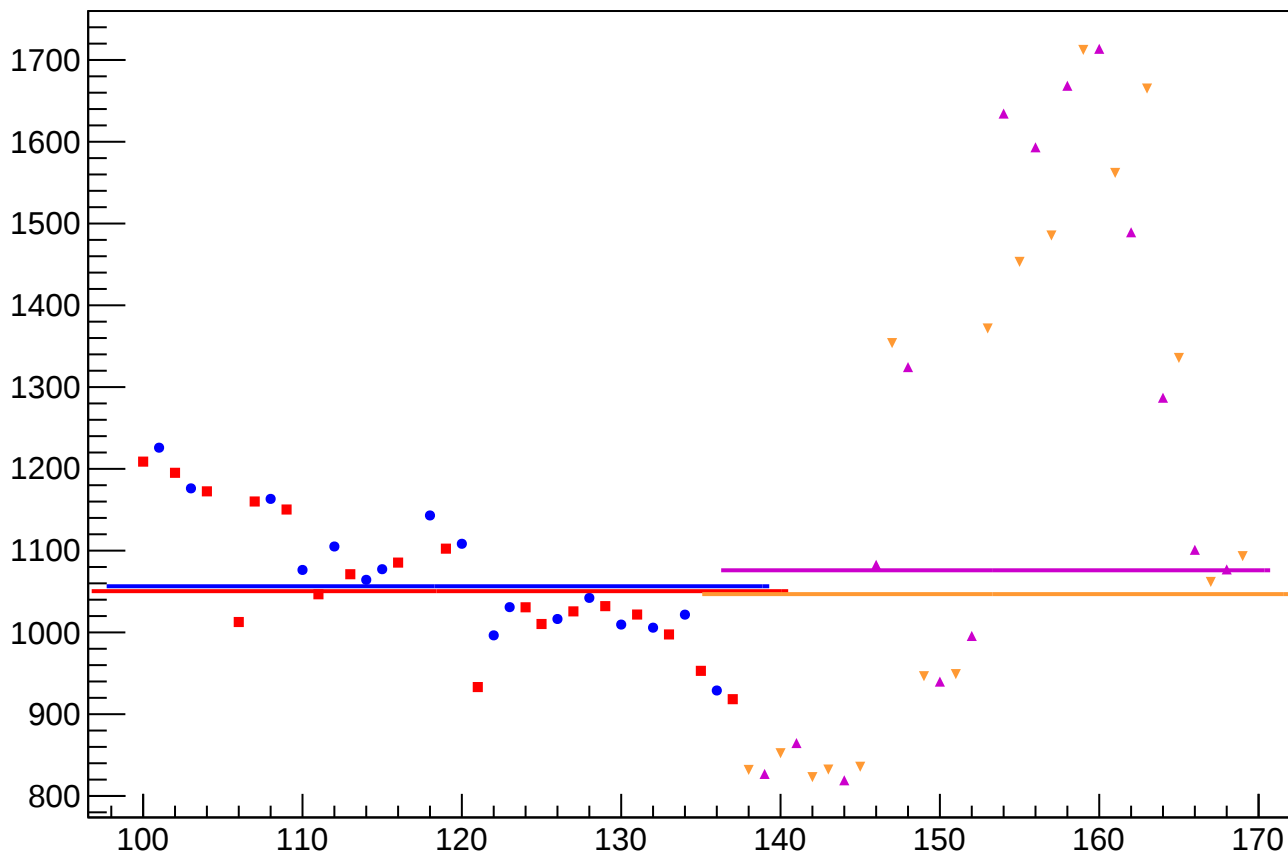
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.244 ± 0.256 χ^2/NDF : 309.2/31

Out: -0.884 ± 0.242 χ^2/NDF : 295.5/35

All: -1.525 ± 0.176 χ^2/NDF : 619.6/67

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1046.833 $\pm$ 0.216 χ^2/NDF : 1555370.5/16

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: 1060.395 $\pm$ 0.158 χ^2/NDF : 2976065.8/31

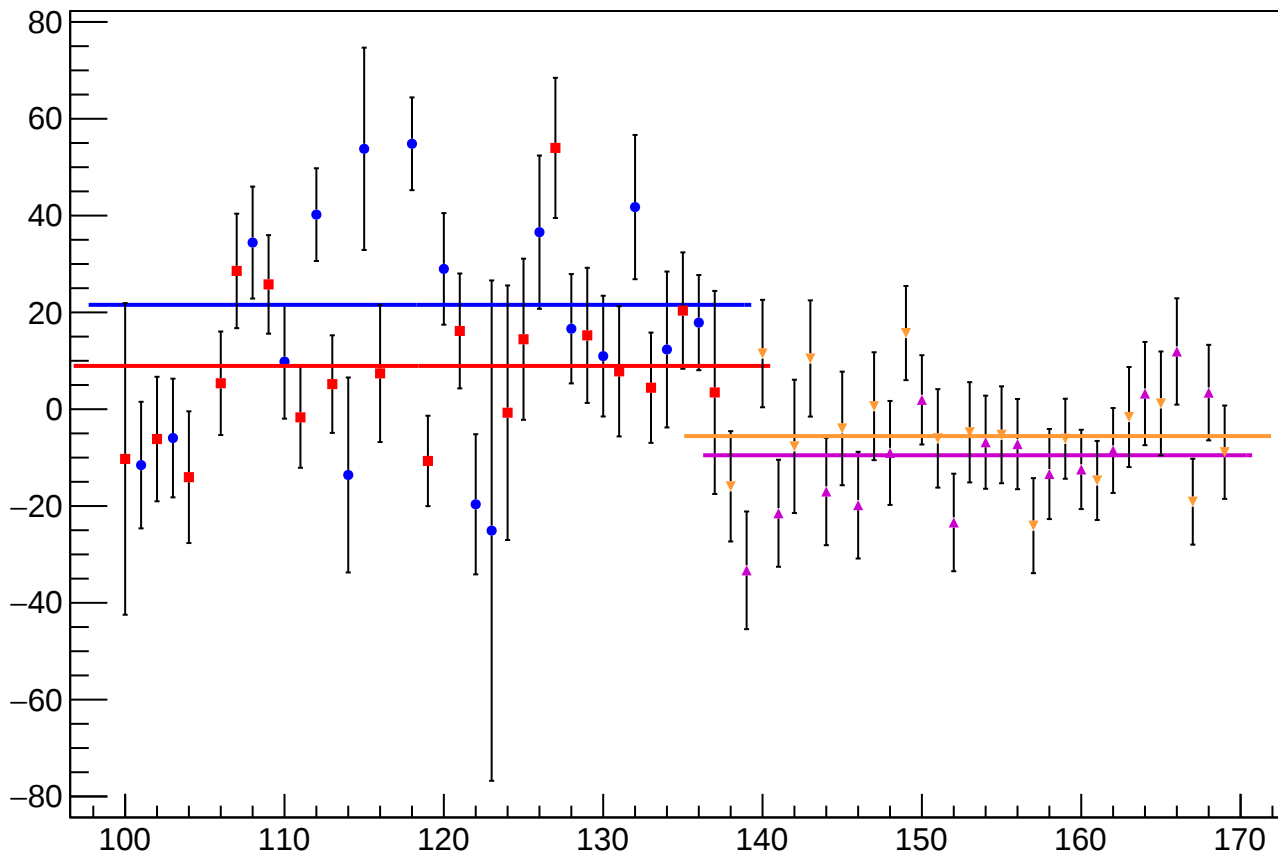
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

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

Out: 1048.191 $\pm$ 0.171 χ^2/NDF : 1637871.8/35

All: 1057.686 $\pm$ 0.124 χ^2/NDF : 3150223.9/67

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561+/-3.110 χ^2/NDF : 48.4/16

Left Out: -5.553+/-2.466 χ^2/NDF : 17.9/16

Right Out: 8.943+/-2.912 χ^2/NDF : 27.4/18

Left In: -9.514+/-2.576 χ^2/NDF : 17.2/14

Left: -7.447+/-1.782 χ^2/NDF : 36.3/31

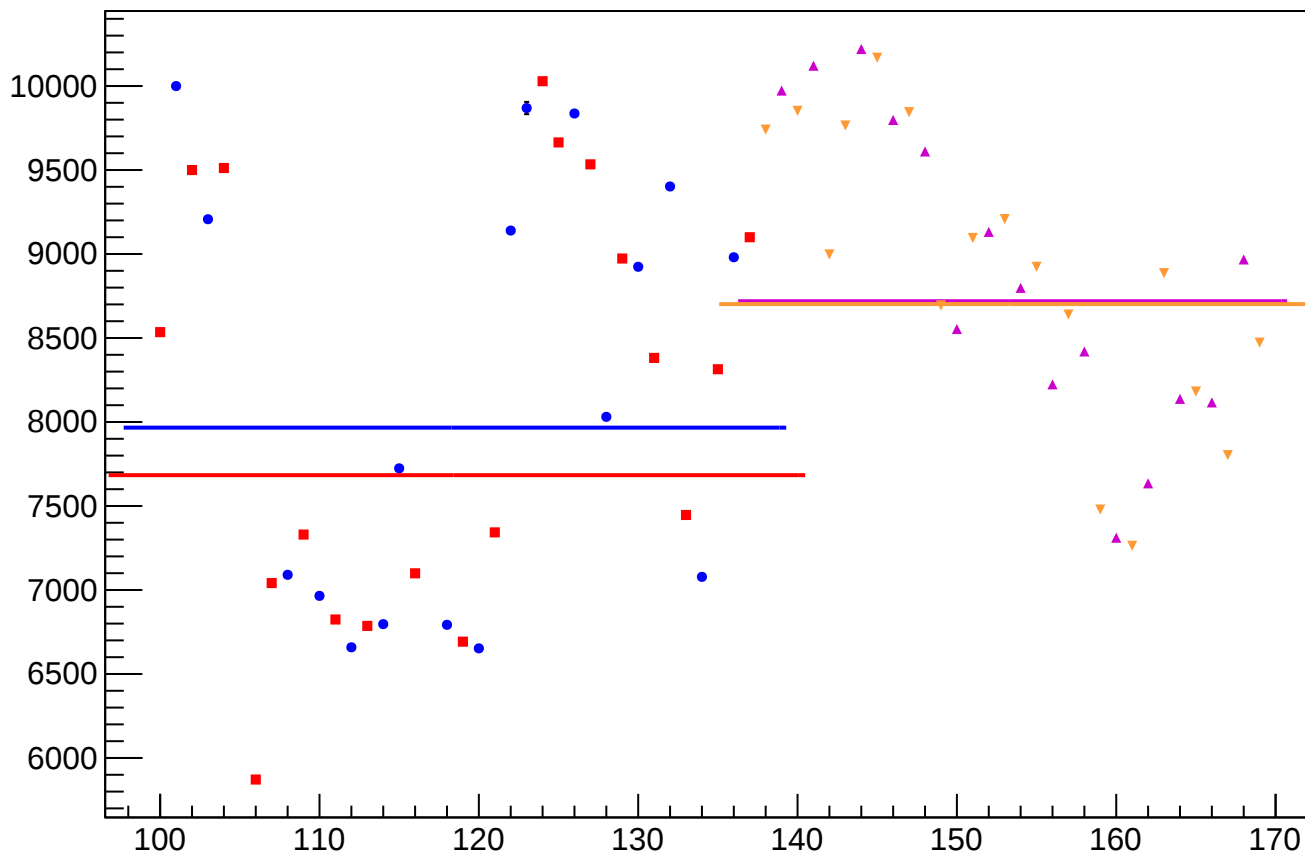
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 3.129+/-1.984 χ^2/NDF : 124.8/31

Out: 0.503+/-1.882 χ^2/NDF : 59.8/35

All: 1.747+/-1.365 χ^2/NDF : 185.5/67

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8701.861 ± 1.744 χ^2/NDF : 248698.8/16

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

Left In: 8718.946 ± 1.822 χ^2/NDF : 237708.9/14

Left: 8710.032 ± 1.260 χ^2/NDF : 486453.5/31

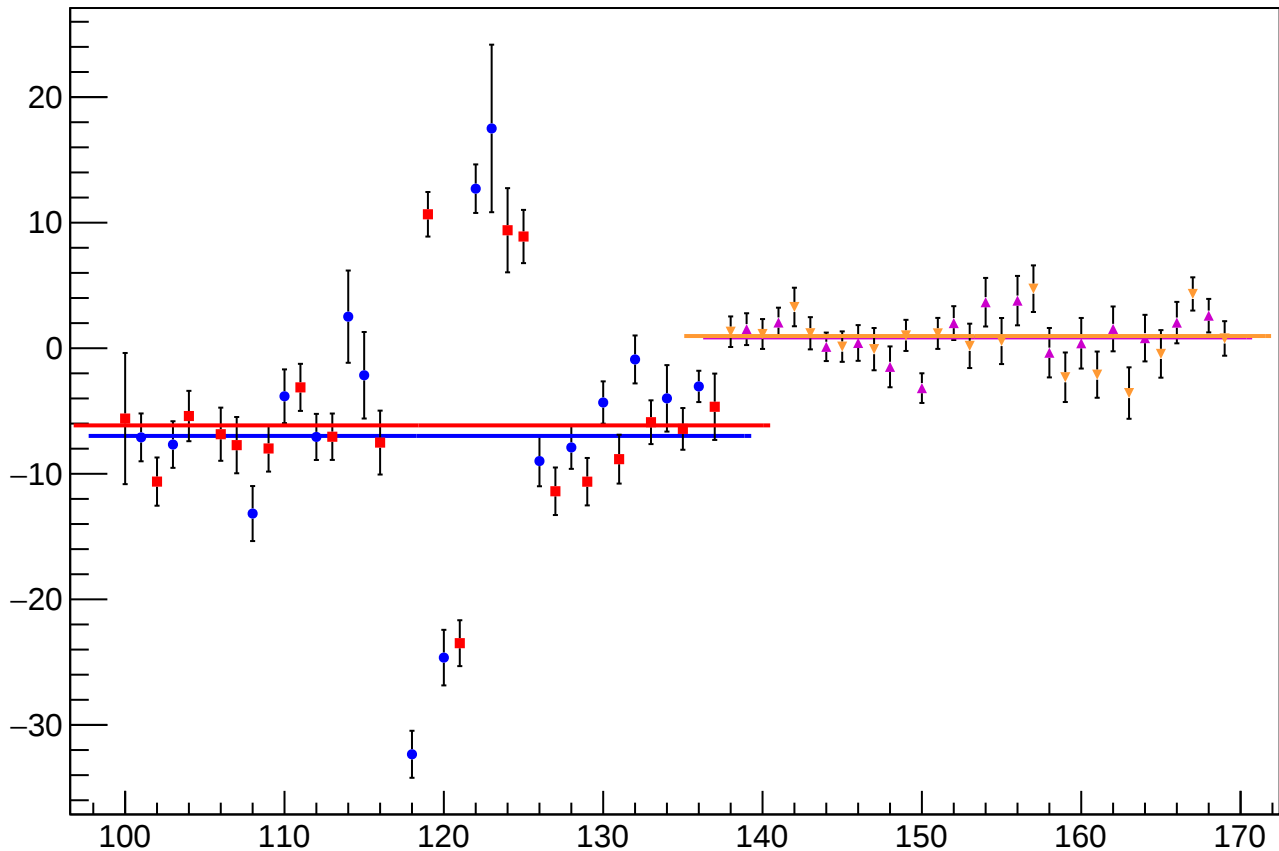
Right: 7815.627 ± 1.503 χ^2/NDF : 620463.8/35

In: 8412.765 ± 1.403 χ^2/NDF : 603762.5/31

Out: 8276.428 ± 1.331 χ^2/NDF : 706167.0/35

All: 8341.005 ± 0.965 χ^2/NDF : 1314900.6/67

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 ± 0.486 $\chi^2/\text{NDF}: 408.5/16$

Left Out: 0.971 ± 0.357 $\chi^2/\text{NDF}: 25.1/16$

Right Out: -6.145 ± 0.467 $\chi^2/\text{NDF}: 277.5/18$

Left In: 0.861 ± 0.383 $\chi^2/\text{NDF}: 23.4/14$

Left: 0.920 ± 0.261 $\chi^2/\text{NDF}: 48.6/31$

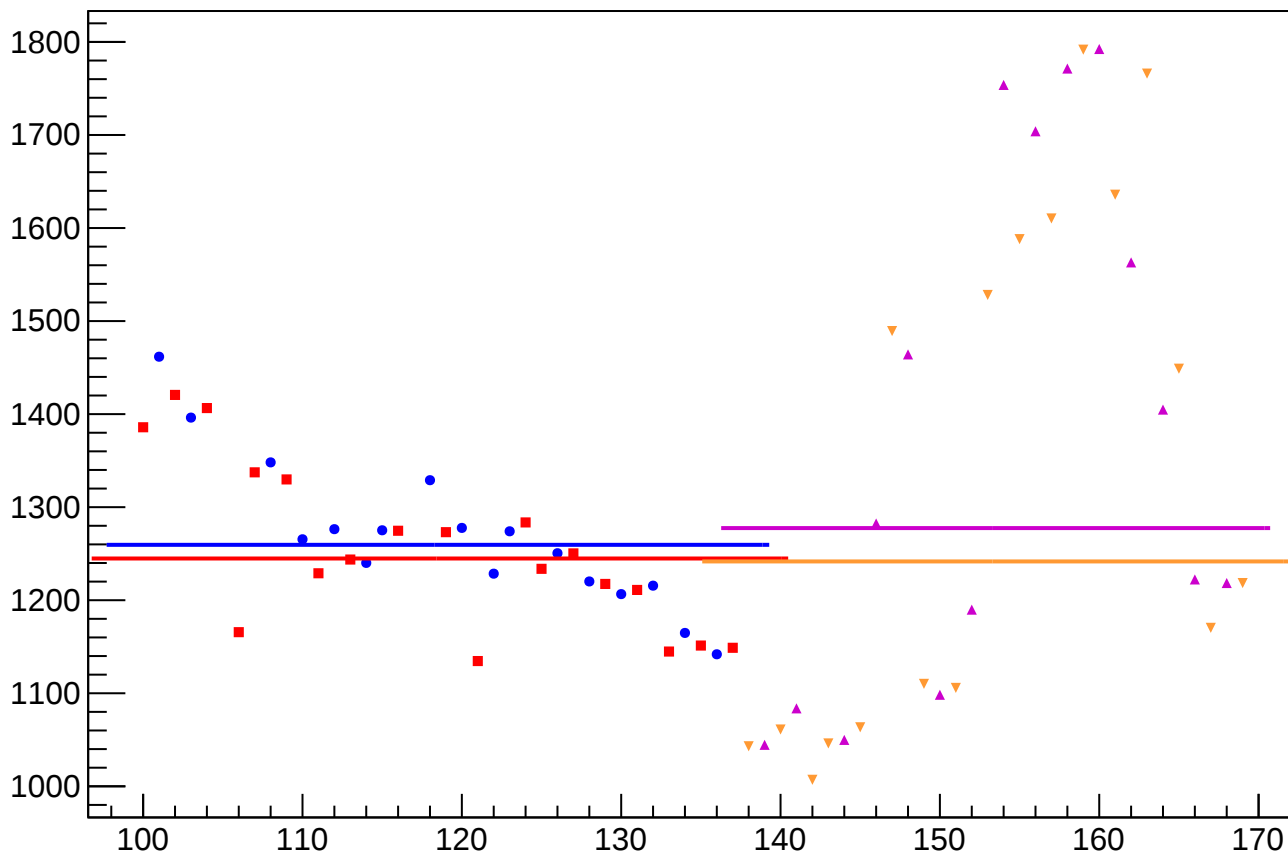
Right: -6.547 ± 0.337 $\chi^2/\text{NDF}: 687.6/35$

In: -2.142 ± 0.301 $\chi^2/\text{NDF}: 592.6/31$

Out: -1.659 ± 0.284 $\chi^2/\text{NDF}: 449.2/35$

All: -1.886 ± 0.206 $\chi^2/\text{NDF}: 1043.2/67$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1241.685 $\pm$ 0.253 χ^2/NDF : 937004.0/16

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: 1258.373 $\pm$ 0.185 χ^2/NDF : 1767692.1/31

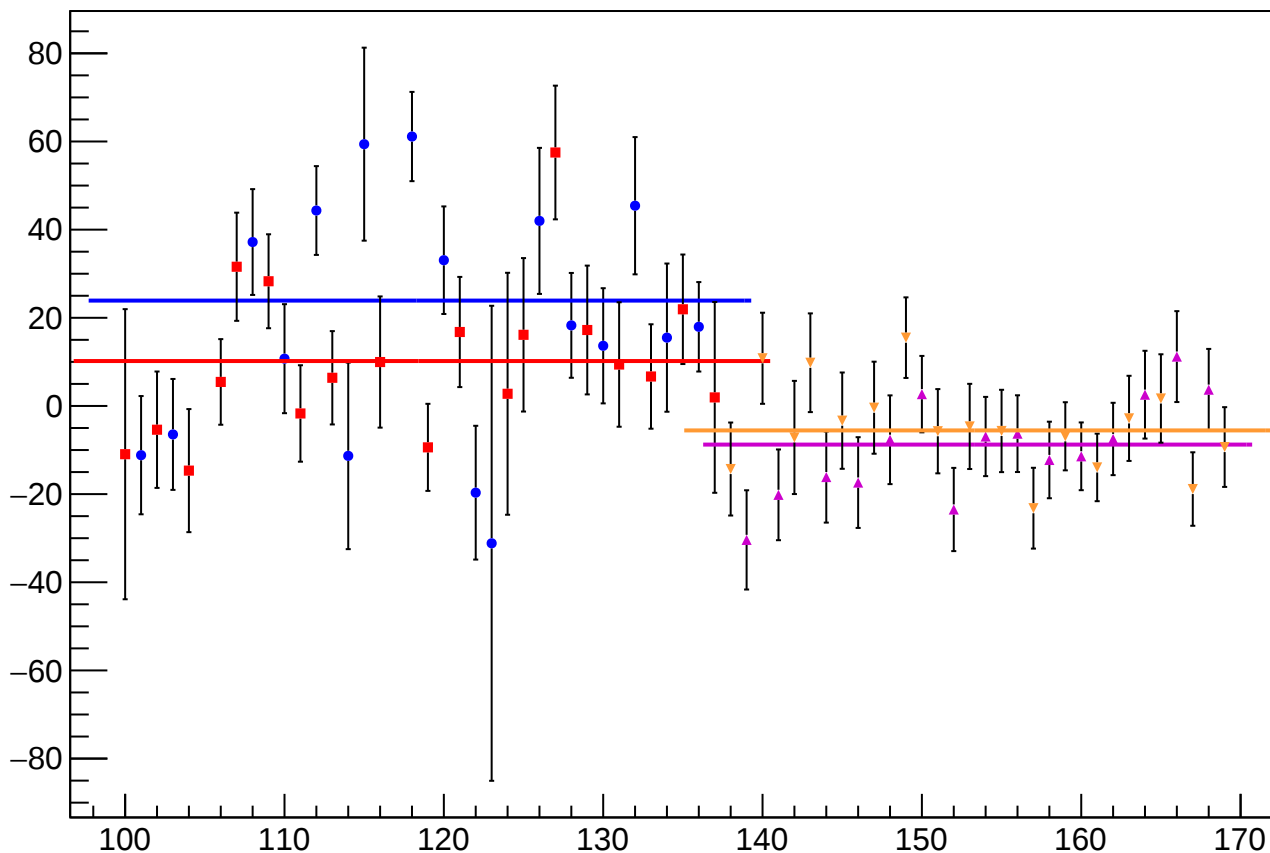
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

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

Out: 1242.850 $\pm$ 0.201 χ^2/NDF : 1003887.5/35

All: 1255.934 $\pm$ 0.146 χ^2/NDF : 1900777.2/67

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -5.549 ± 2.306 $\chi^2/\text{NDF}: 18.9/16$

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: -7.087 ± 1.666 $\chi^2/\text{NDF}: 37.5/31$

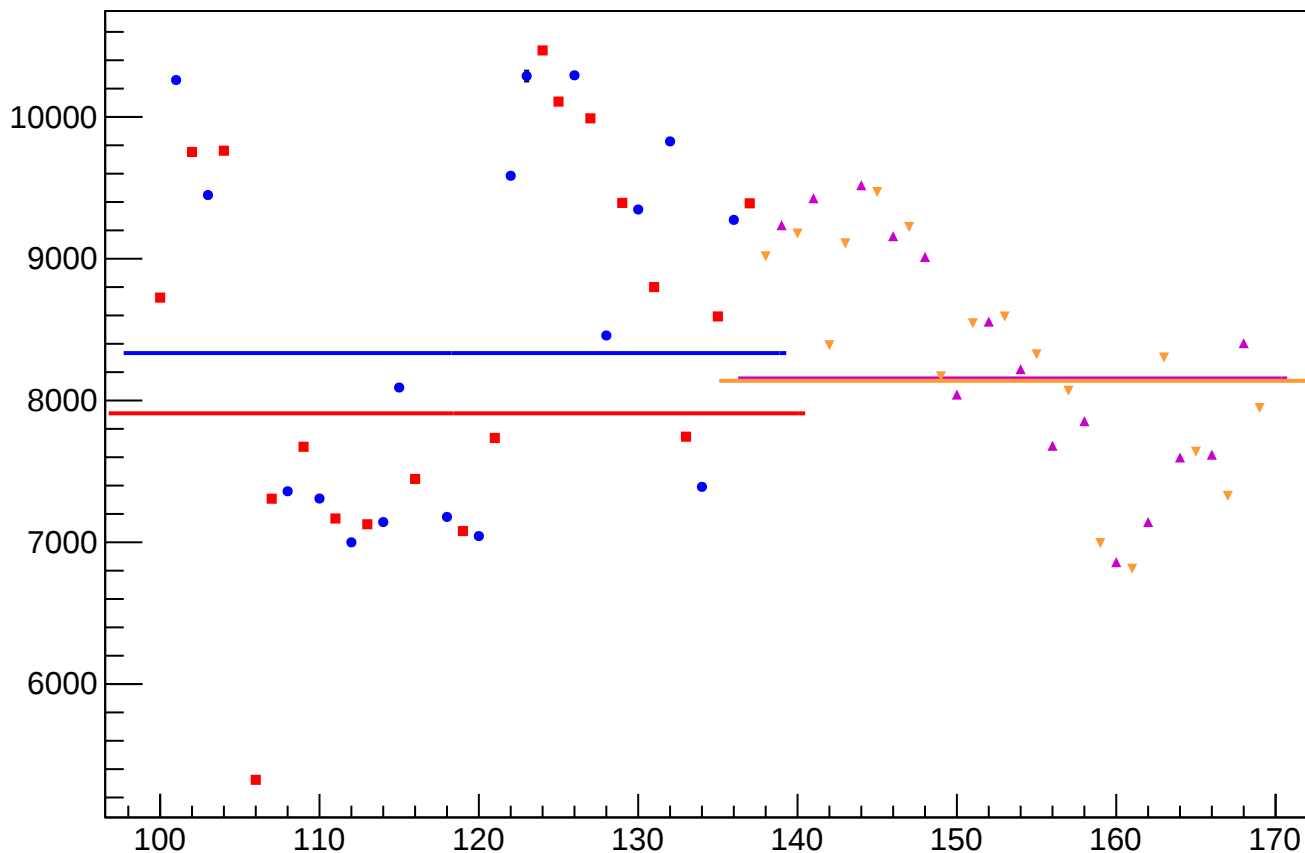
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

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

Out: 0.284 ± 1.830 $\chi^2/\text{NDF}: 64.1/35$

All: 1.480 ± 1.330 $\chi^2/\text{NDF}: 200.3/67$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8138.864 $\pm$ 1.631 χ^2/NDF : 239207.0/16

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: 8146.948 $\pm$ 1.178 χ^2/NDF : 469333.5/31

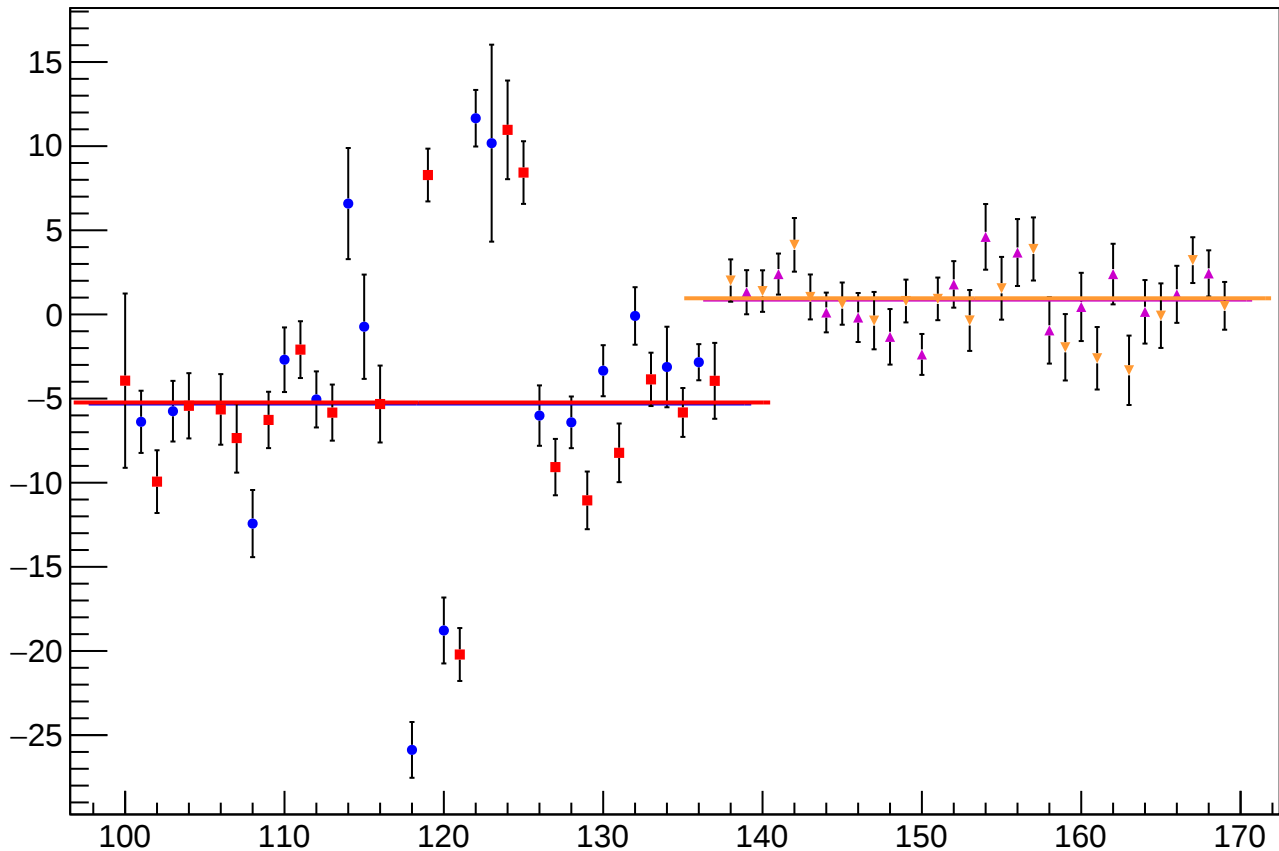
Right: 8105.450 $\pm$ 1.560 χ^2/NDF : 681543.4/35

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

Out: 8053.905 $\pm$ 1.294 χ^2/NDF : 637349.3/35

All: 8131.883 $\pm$ 0.940 χ^2/NDF : 1151327.4/67

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 0.959 $\pm$ 0.367 χ^2/NDF :21.9/16

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: 0.922 $\pm$ 0.268 χ^2/NDF : 42.6/31

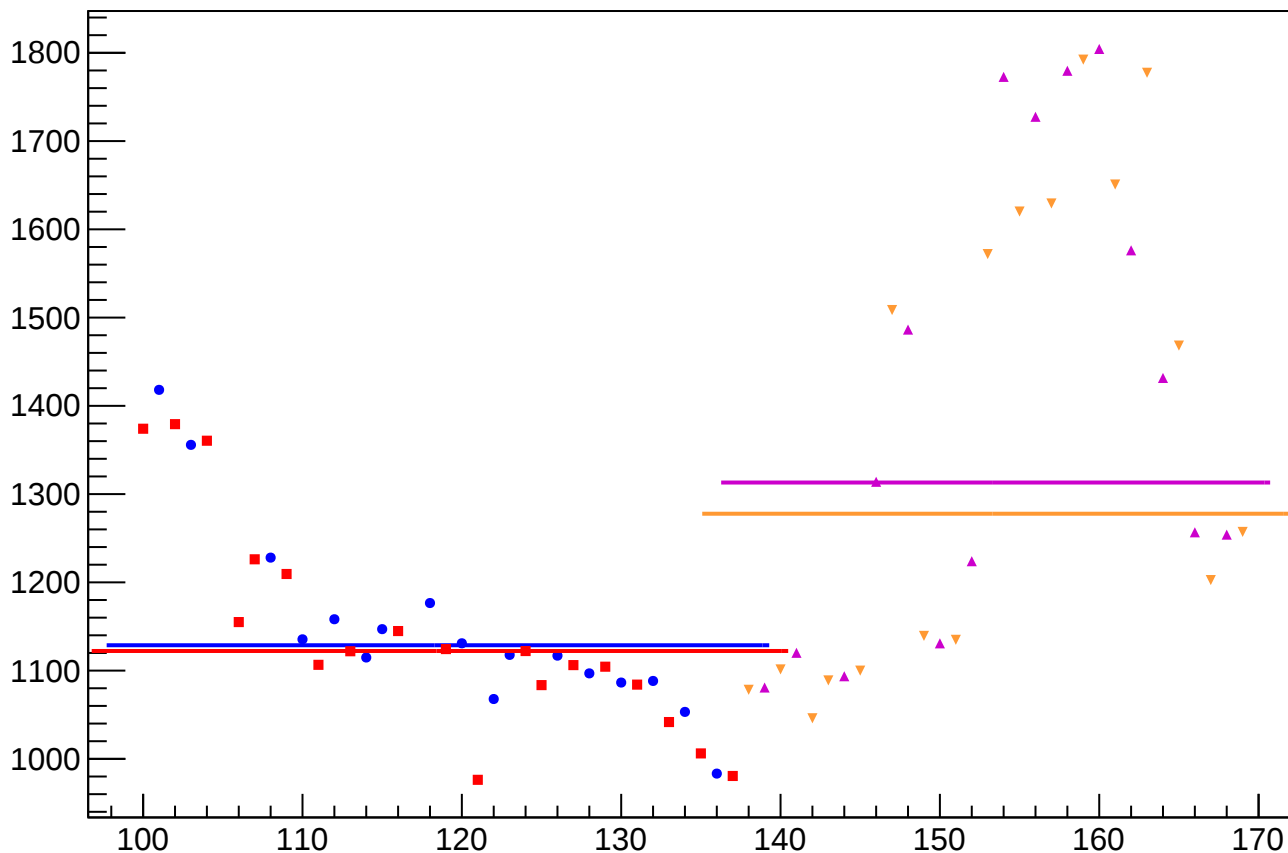
Right: -5.263 $\pm$ 0.303 χ^2/NDF : 640.0/35

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

Out: -1.709 $\pm$ 0.277 χ^2/NDF :426.5/35

All: -1.789 $\pm$ 0.201 χ^2/NDF : 916.1/67

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1277.760 $\pm$ 0.259 χ^2 /NDF: 850340.2/16

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

Left In: 1313.110 $\pm$ 0.278 χ^2 /NDF: 740428.6/14

Left: 1294.243 $\pm$ 0.190 χ^2 /NDF: 1599428.1/31

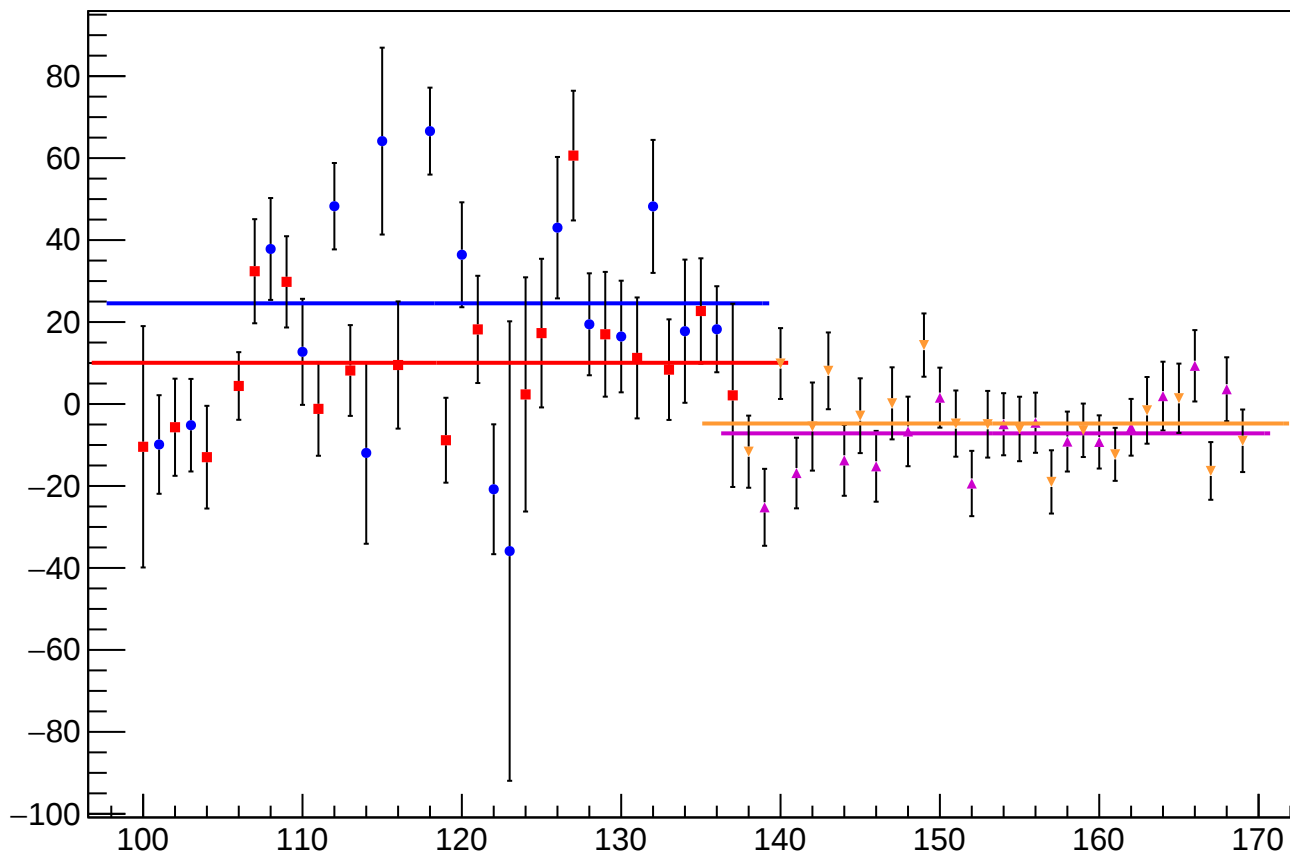
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

In: 1230.757 $\pm$ 0.206 χ^2 /NDF: 1070652.6/31

Out: 1210.759 $\pm$ 0.196 χ^2 /NDF: 1134809.5/35

All: 1220.224 $\pm$ 0.142 χ^2 /NDF: 2210404.2/67

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -4.754 $\pm$ 1.941 χ^2 /NDF:20.4/16

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: -5.905 $\pm$ 1.403 χ^2 /NDF: 38.4/31

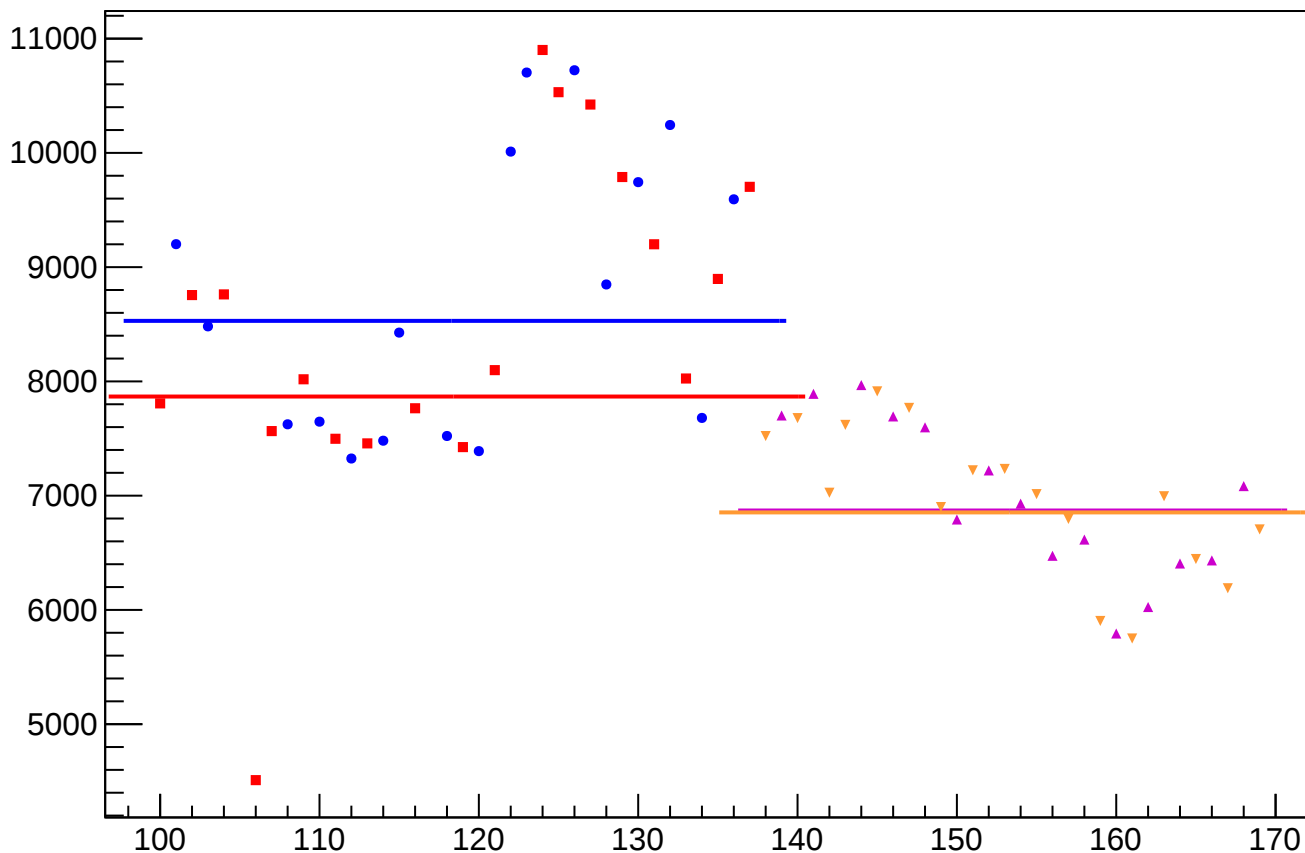
Right: 16.602 $\pm$ 2.229 χ^2 /NDF: 97.4/35

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

Out: -0.398 $\pm$ 1.631 χ^2 /NDF:66.3/35

All: 0.481 $\pm$ 1.187 χ^2 /NDF: 208.9/67

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6853.491+/-1.373 χ^2/NDF : 226275.3/16

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

Left In: 6870.058+/-1.434 χ^2/NDF : 218828.0/14

Left: 6861.411+/-0.992 χ^2/NDF : 445172.9/31

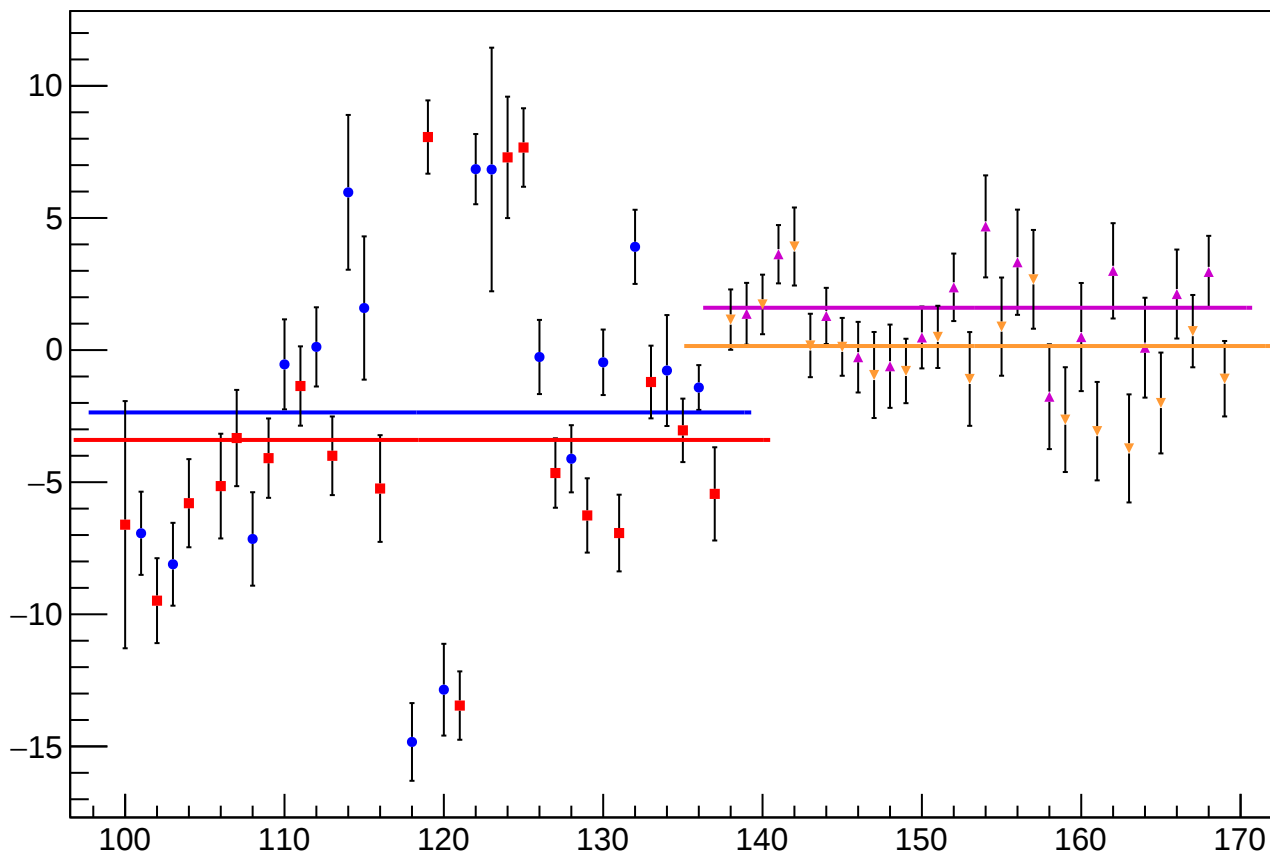
Right: 8166.253+/-1.576 χ^2/NDF : 807907.7/35

In: 7321.594+/-1.224 χ^2/NDF : 791393.6/31

Out: 7151.758+/-1.153 χ^2/NDF : 942612.2/35

All: 7231.645+/-0.839 χ^2/NDF : 1744204.9/67

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: 0.154 ± 0.347 χ^2/NDF : 23.6/16

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: 0.828 ± 0.254 χ^2/NDF : 49.2/31

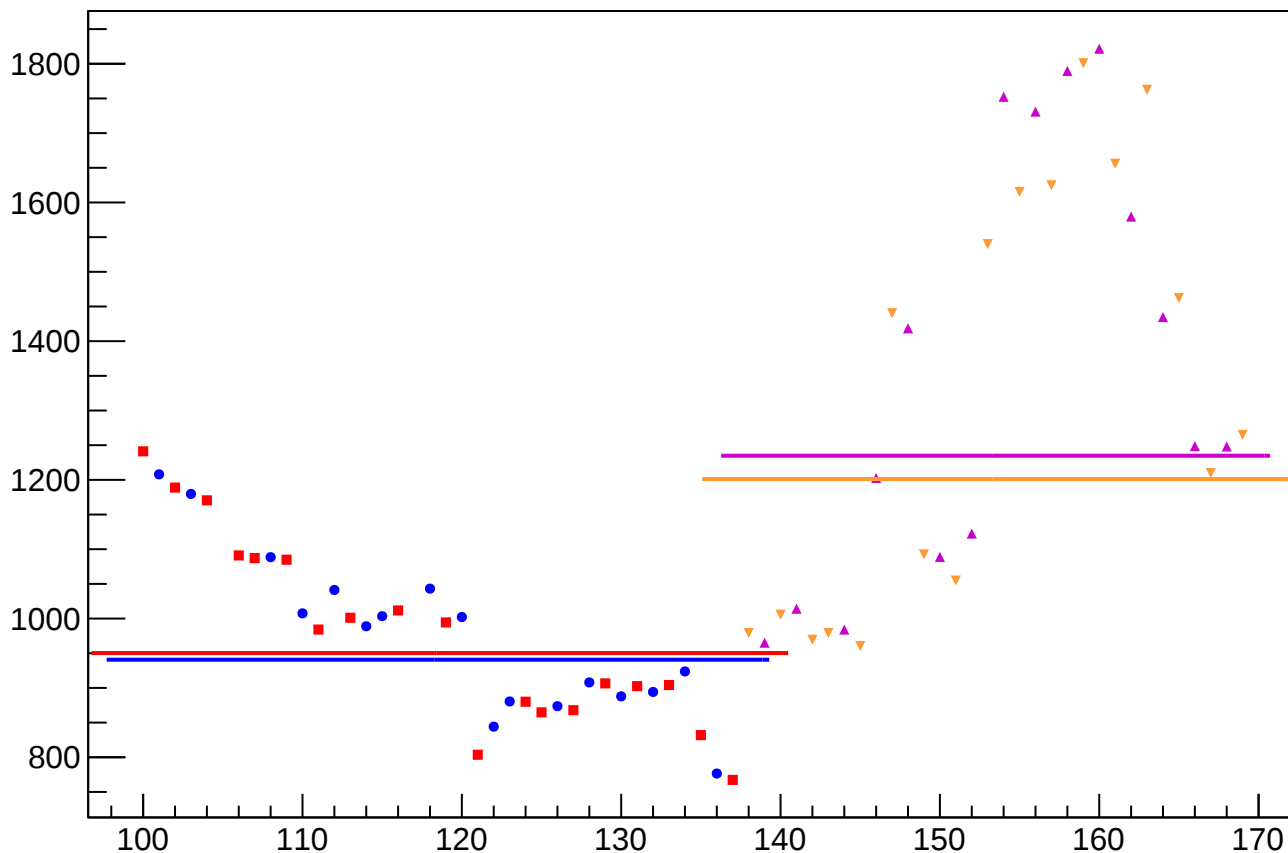
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.413 ± 0.261 χ^2/NDF : 307.2/31

Out: -1.569 ± 0.249 χ^2/NDF : 315.8/35

All: -1.017 ± 0.180 χ^2/NDF : 633.2/67

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1201.156 ± 0.246 χ^2/NDF : 1209312.8/16

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: 1216.841 ± 0.180 χ^2/NDF : 2275023.1/31

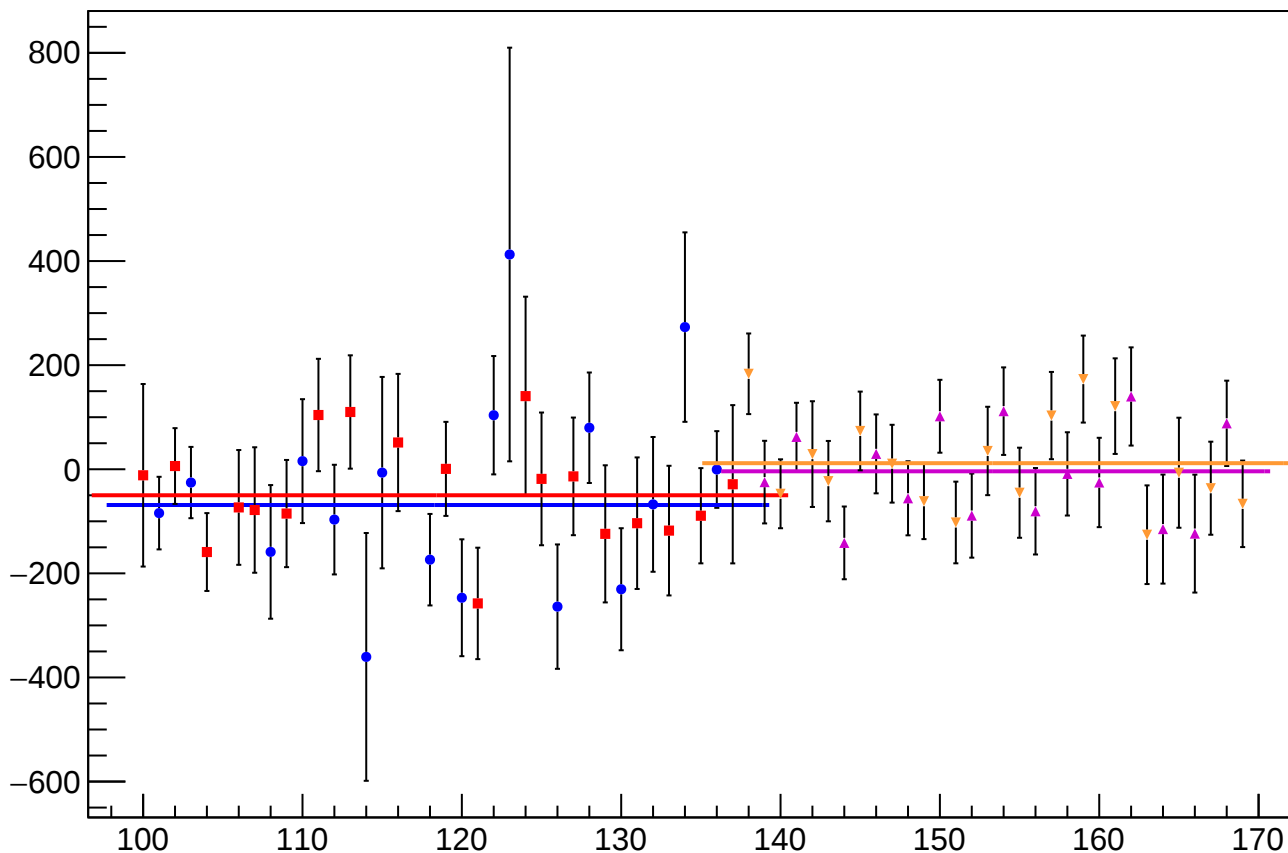
Right: 945.597 ± 0.181 χ^2/NDF : 463155.1/35

In: 1085.225 ± 0.184 χ^2/NDF : 1935047.7/31

Out: 1079.574 ± 0.176 χ^2/NDF : 1935401.8/35

All: 1082.274 ± 0.127 χ^2/NDF : 3870940.2/67

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 11.683 $\pm$ 19.955 χ^2/NDF : 19.9/16

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: 4.163 $\pm$ 14.367 χ^2/NDF : 37.9/31

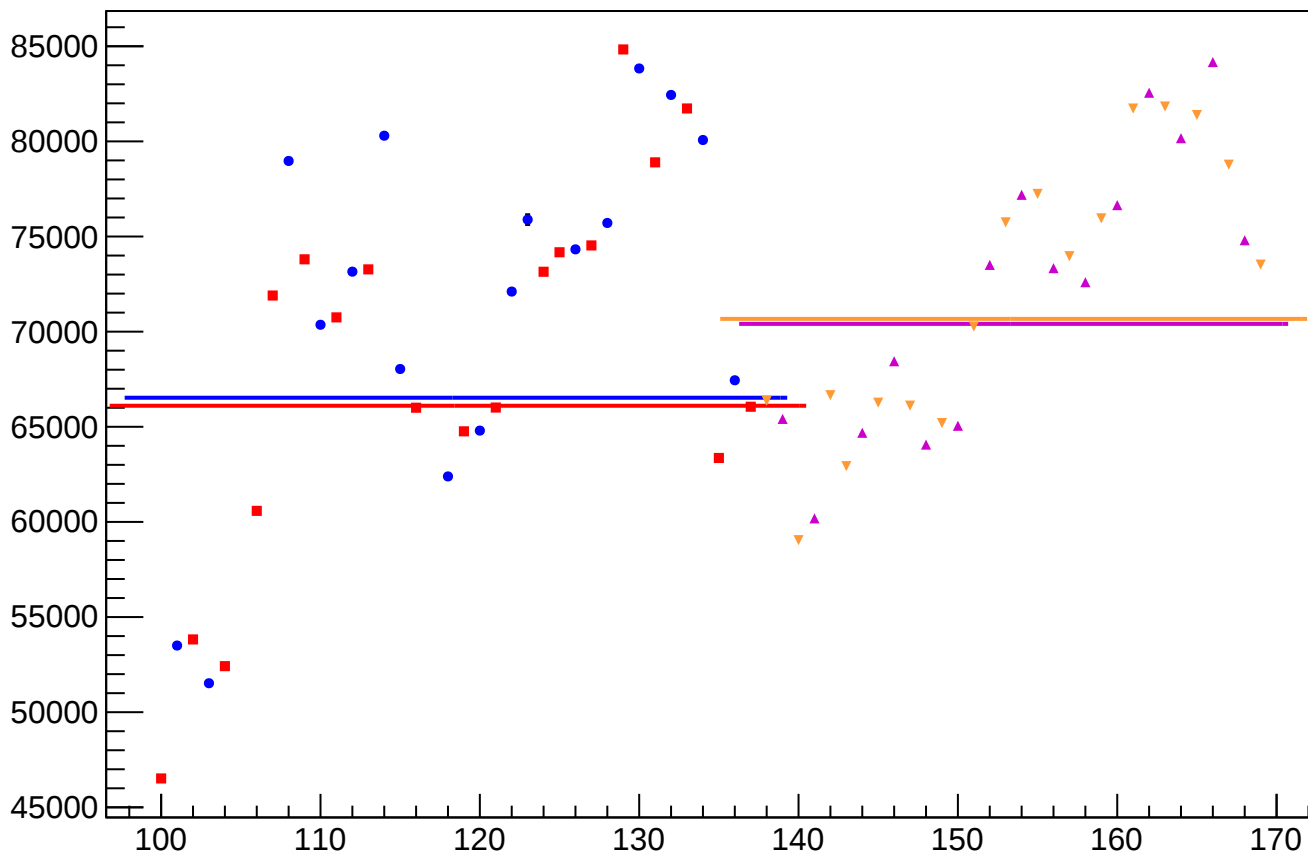
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -29.121 $\pm$ 16.182 χ^2/NDF : 43.3/31

Out: -12.283 $\pm$ 15.601 χ^2/NDF : 37.6/35

All: -20.394 $\pm$ 11.231 χ^2/NDF : 81.4/67

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347 χ^2/NDF : 320887.2/16

Left Out: 70672.148+/-14.111 χ^2/NDF : 242514.9/16

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: 70545.181+/-10.159 χ^2/NDF : 457887.6/31

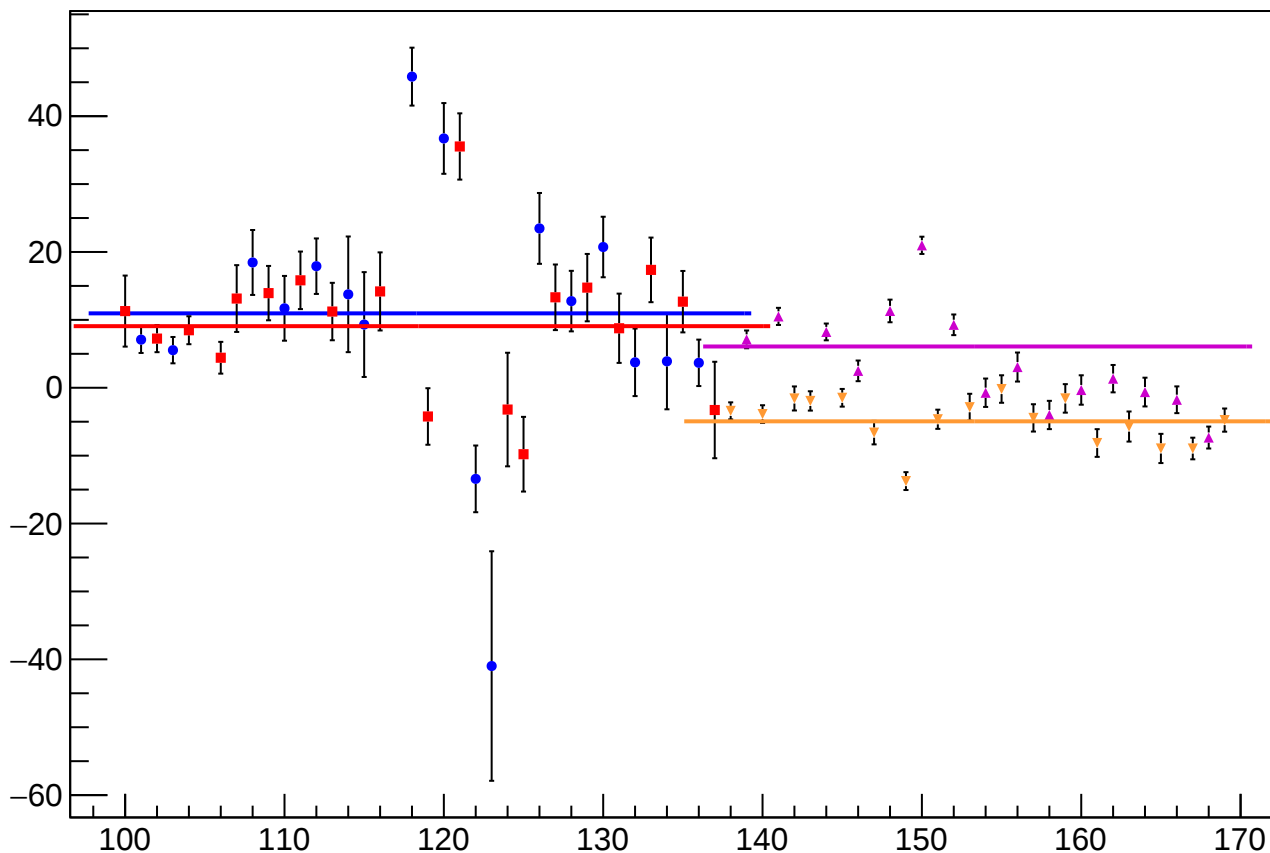
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 68898.750+/-11.443 χ^2/NDF : 563437.5/31

Out: 68896.742+/-11.031 χ^2/NDF : 581717.4/35

All: 68897.710+/-7.942 χ^2/NDF : 1145154.9/66

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 ± 0.943 $\chi^2/\text{NDF}: 160.9/16$

Left Out: -4.945 ± 0.395 $\chi^2/\text{NDF}: 84.7/16$

Right Out: 9.072 ± 0.866 $\chi^2/\text{NDF}: 73.1/18$

Left In: 6.080 ± 0.418 $\chi^2/\text{NDF}: 318.5/14$

Left: 0.251 ± 0.287 $\chi^2/\text{NDF}: 770.2/31$

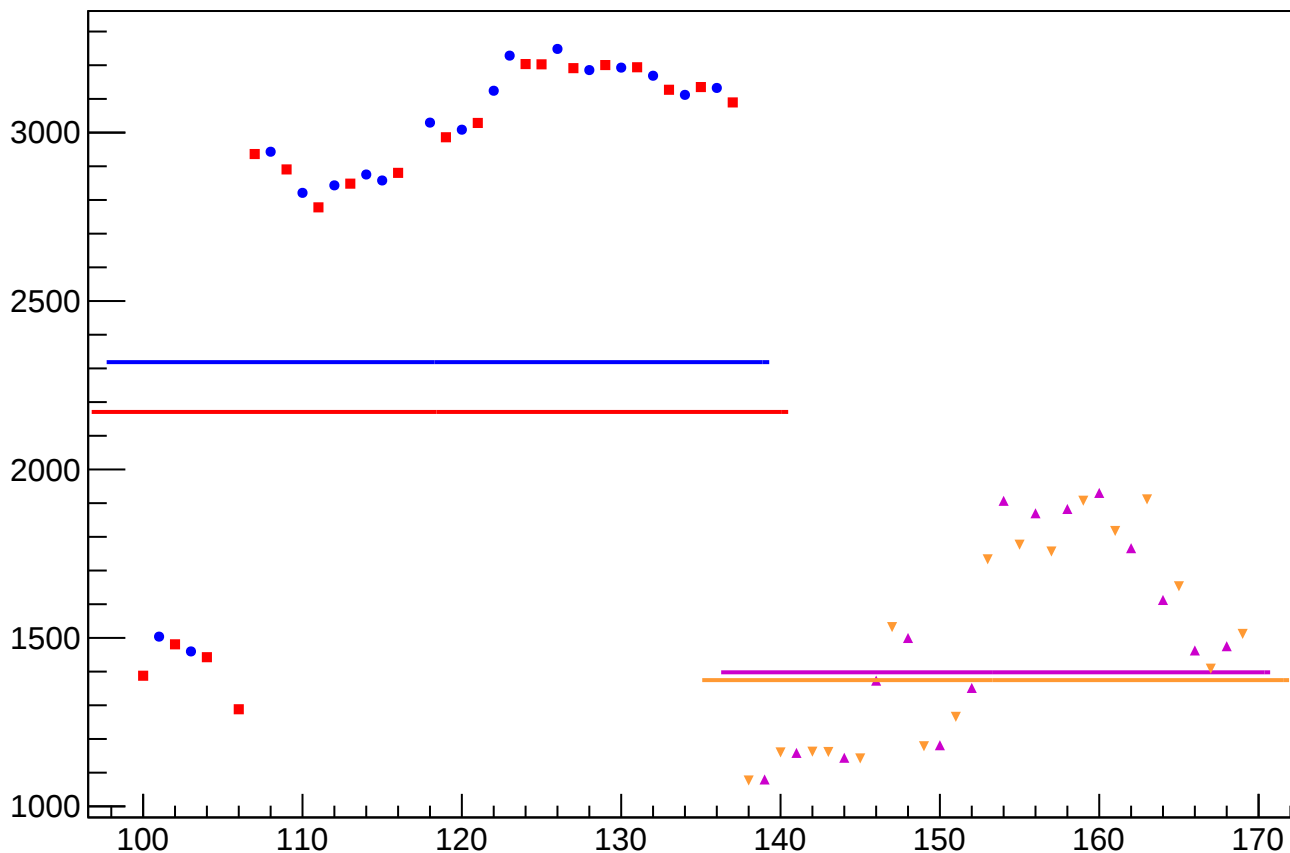
Right: 9.935 ± 0.638 $\chi^2/\text{NDF}: 236.2/35$

In: 6.882 ± 0.382 $\chi^2/\text{NDF}: 501.8/31$

Out: -2.532 ± 0.359 $\chi^2/\text{NDF}: 374.5/35$

All: 1.883 ± 0.262 $\chi^2/\text{NDF}: 1198.0/67$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624+/-0.667 χ^2/NDF : 1408300.4/16

Left Out: 1374.709+/-0.279 χ^2/NDF : 981180.0/16

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: 1385.630+/-0.203 χ^2/NDF : 1865906.4/31

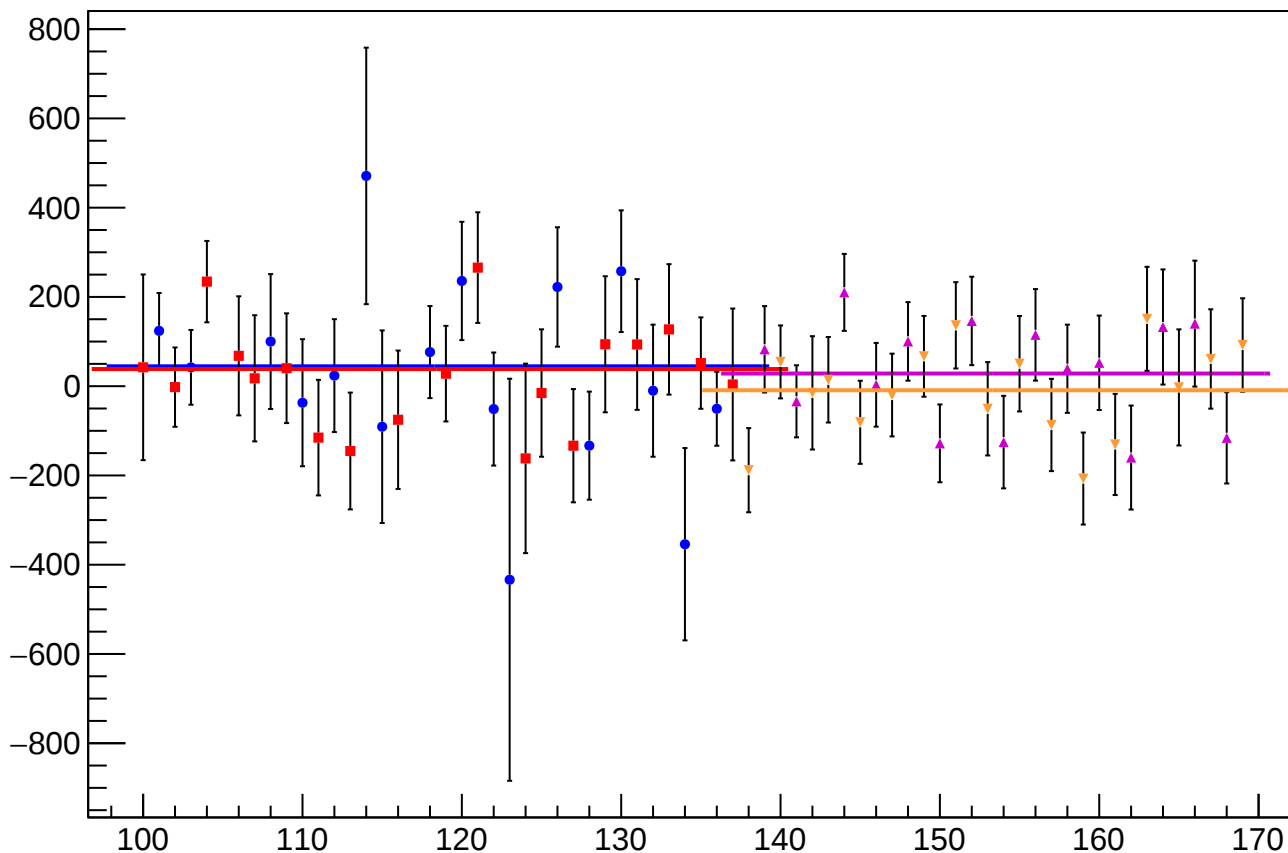
Right: 2238.439+/-0.451 χ^2/NDF : 3188639.4/35

In: 1549.308+/-0.270 χ^2/NDF : 3882284.5/31

Out: 1511.740+/-0.254 χ^2/NDF : 4132916.8/35

All: 1529.358+/-0.185 χ^2/NDF : 8025447.0/67

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484+/-30.432 χ^2/NDF : 19.1/16

Left Out: -9.101+/-24.671 χ^2/NDF : 16.9/16

Right Out: 38.425+/-29.435 χ^2/NDF : 15.7/18

Left In: 28.365+/-25.564 χ^2/NDF : 19.6/14

Left: 8.966+/-17.752 χ^2/NDF : 37.6/31

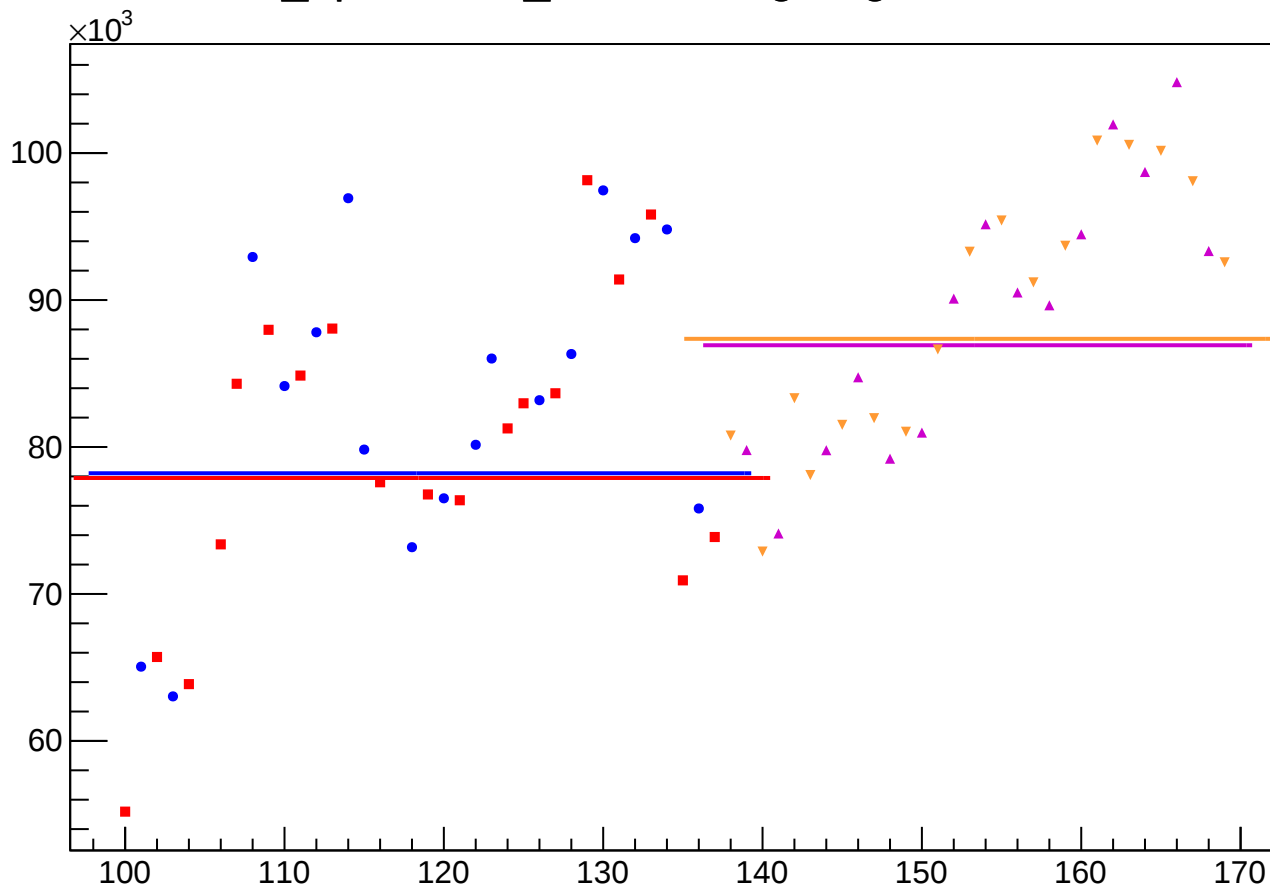
Right: 41.353+/-21.157 χ^2/NDF : 34.9/35

In: 35.034+/-19.574 χ^2/NDF : 38.8/31

Out: 10.509+/-18.908 χ^2/NDF : 34.2/35

All: 22.347+/-13.599 χ^2/NDF : 73.9/67

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519 χ^2/NDF : 251056.7/16

Left Out: 87360.826+/-17.445 χ^2/NDF : 242684.4/16

Right Out: 77891.938+/-20.814 χ^2/NDF : 246970.2/18

Left In: 86923.724+/-18.076 χ^2/NDF : 219477.4/14

Left: 87150.043+/-12.553 χ^2/NDF : 462464.5/31

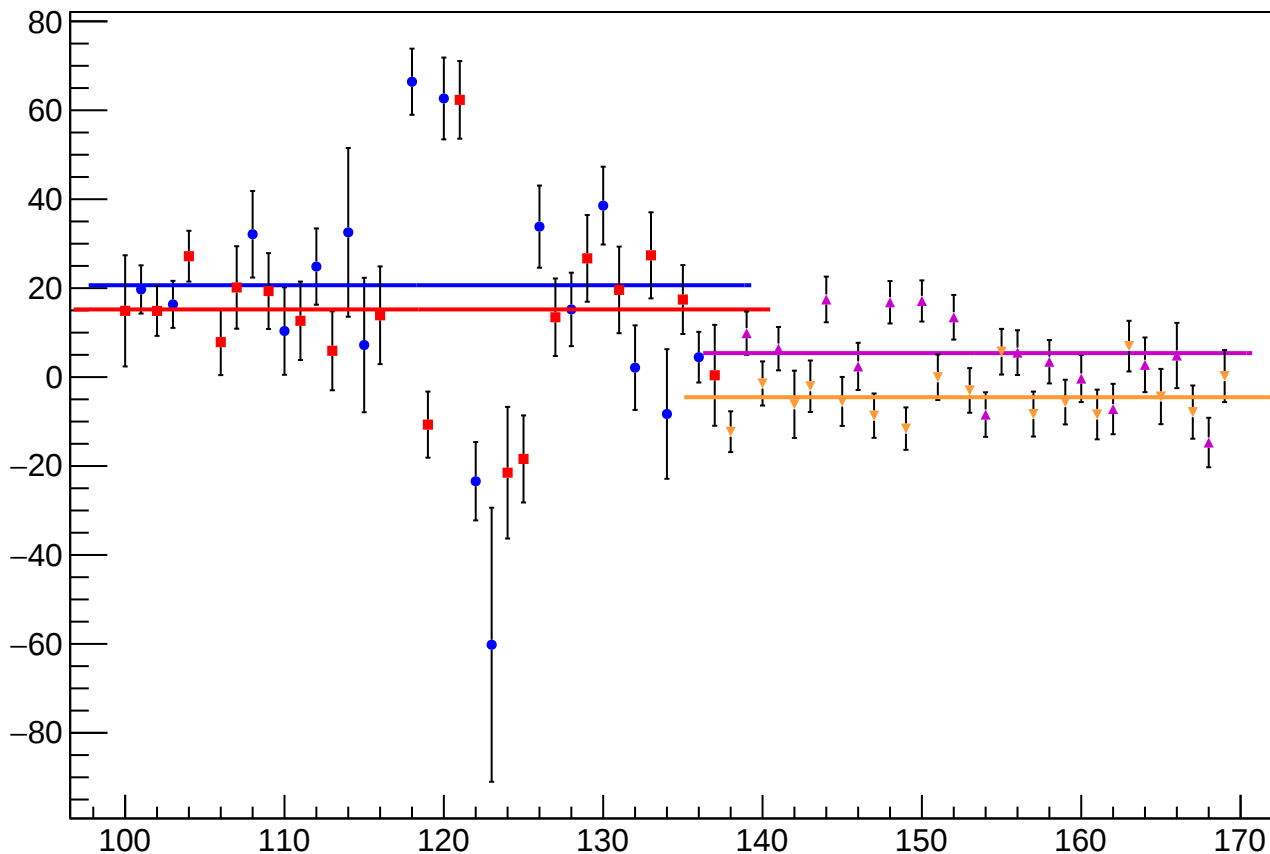
Right: 78047.137+/-14.960 χ^2/NDF : 498141.9/35

In: 83319.948+/-13.841 χ^2/NDF : 566604.1/31

Out: 83453.730+/-13.370 χ^2/NDF : 611221.5/35

All: 83389.154+/-9.616 χ^2/NDF : 1177873.9/66

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 ± 2.036 χ^2/NDF : 117.7/16

Left Out: -4.522 ± 1.298 χ^2/NDF : 17.4/16

Right Out: 15.216 ± 1.955 χ^2/NDF : 71.3/18

Left In: 5.392 ± 1.344 χ^2/NDF : 48.6/14

Left: 0.264 ± 0.934 χ^2/NDF : 94.1/31

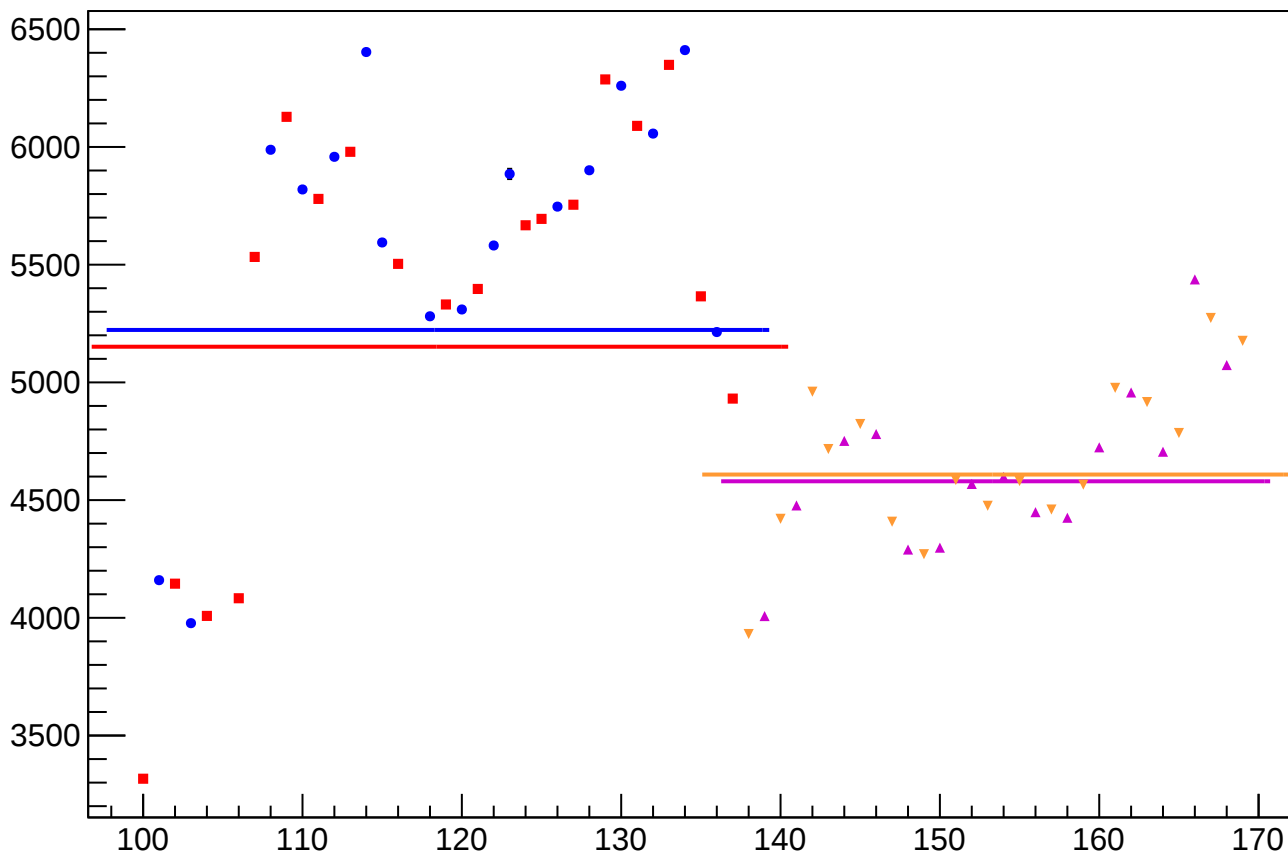
Right: 17.826 ± 1.410 χ^2/NDF : 192.8/35

In: 10.026 ± 1.122 χ^2/NDF : 205.5/31

Out: 1.520 ± 1.082 χ^2/NDF : 159.4/35

All: 5.618 ± 0.779 χ^2/NDF : 394.7/67

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 $\chi^2/\text{NDF}: 312497.9/16$

Left Out: 4608.593 ± 0.918 $\chi^2/\text{NDF}: 130919.3/16$

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: 4594.751 ± 0.660 $\chi^2/\text{NDF}: 237479.8/31$

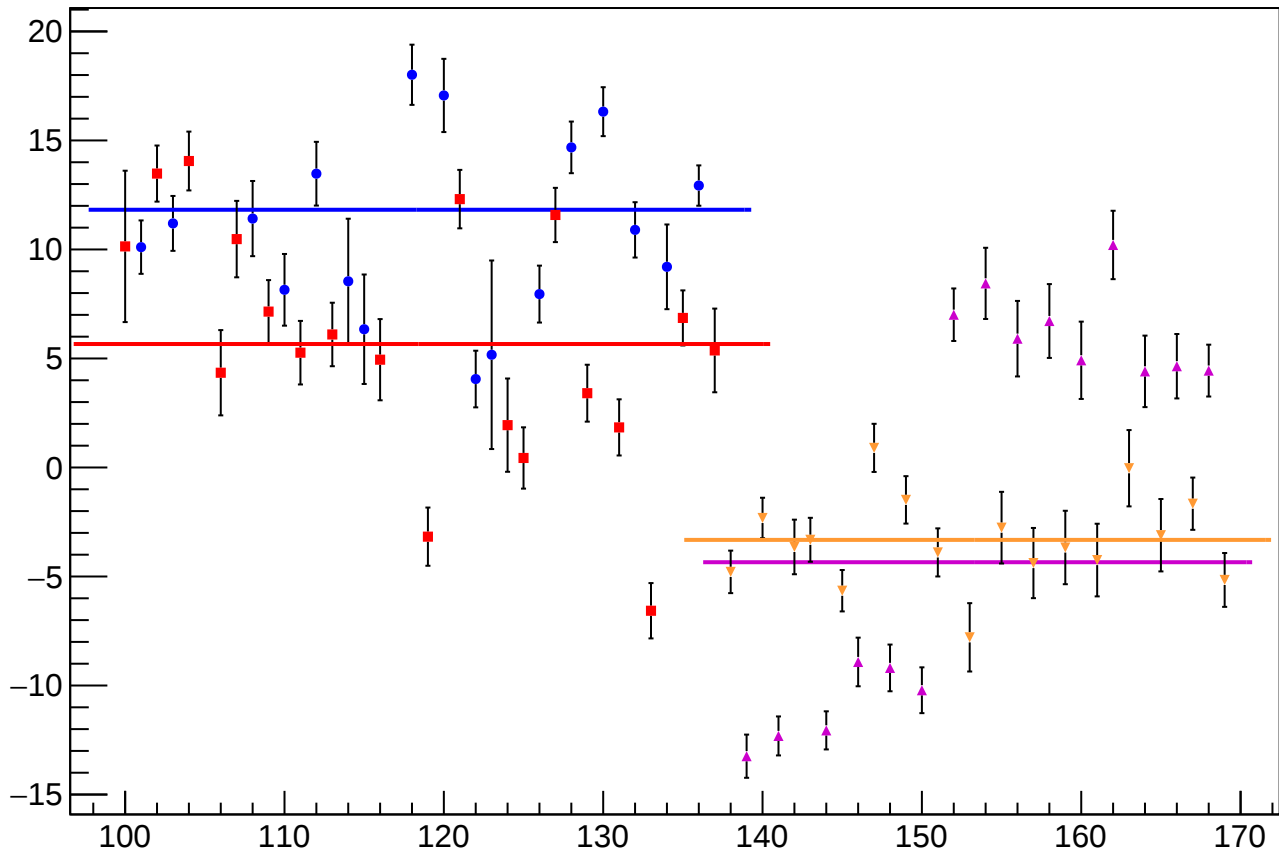
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4775.047 ± 0.793 $\chi^2/\text{NDF}: 557468.5/31$

Out: 4774.801 ± 0.765 $\chi^2/\text{NDF}: 625669.9/35$

All: 4774.920 ± 0.551 $\chi^2/\text{NDF}: 1183138.5/67$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 χ^2/NDF : 117.0/16

Left Out: -3.321 ± 0.297 χ^2/NDF : 44.0/16

Right Out: 5.663 ± 0.338 χ^2/NDF : 300.1/18

Left In: -4.345 ± 0.314 χ^2/NDF : 767.8/14

Left: -3.805 ± 0.216 χ^2/NDF : 817.4/31

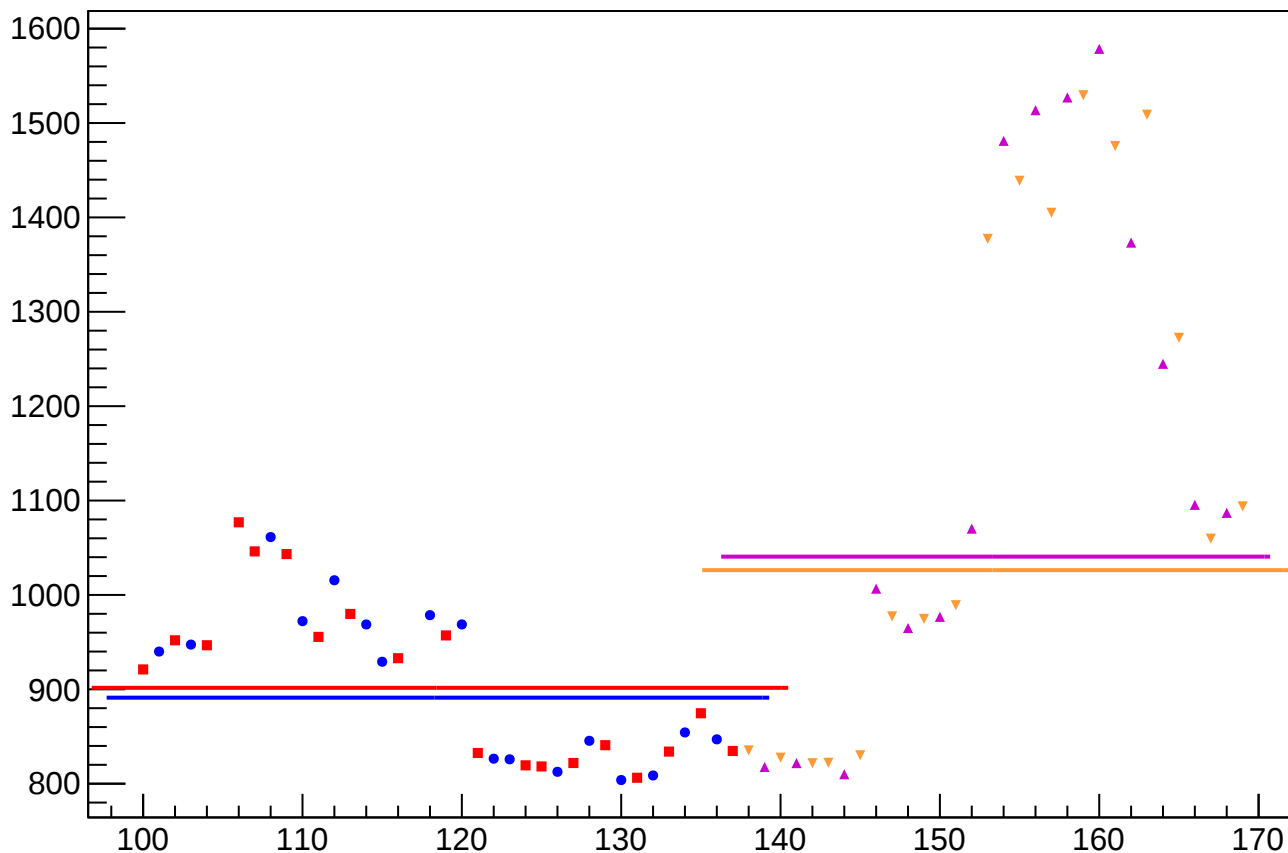
Right: 8.688 ± 0.241 χ^2/NDF : 579.7/35

In: 2.981 ± 0.232 χ^2/NDF : 2088.9/31

Out: 0.584 ± 0.223 χ^2/NDF : 742.4/35

All: 1.737 ± 0.161 χ^2/NDF : 2886.7/67

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149+/-0.244 χ^2/NDF : 101659.1/16

Left Out: 1026.263+/-0.210 χ^2/NDF :1264716.1/16

Right Out: 901.588+/-0.239 χ^2/NDF : 114590.8/18

Left In: 1040.575+/-0.222 χ^2/NDF :1151215.9/14

Left: 1033.025+/-0.152 χ^2/NDF : 2418129.4/31

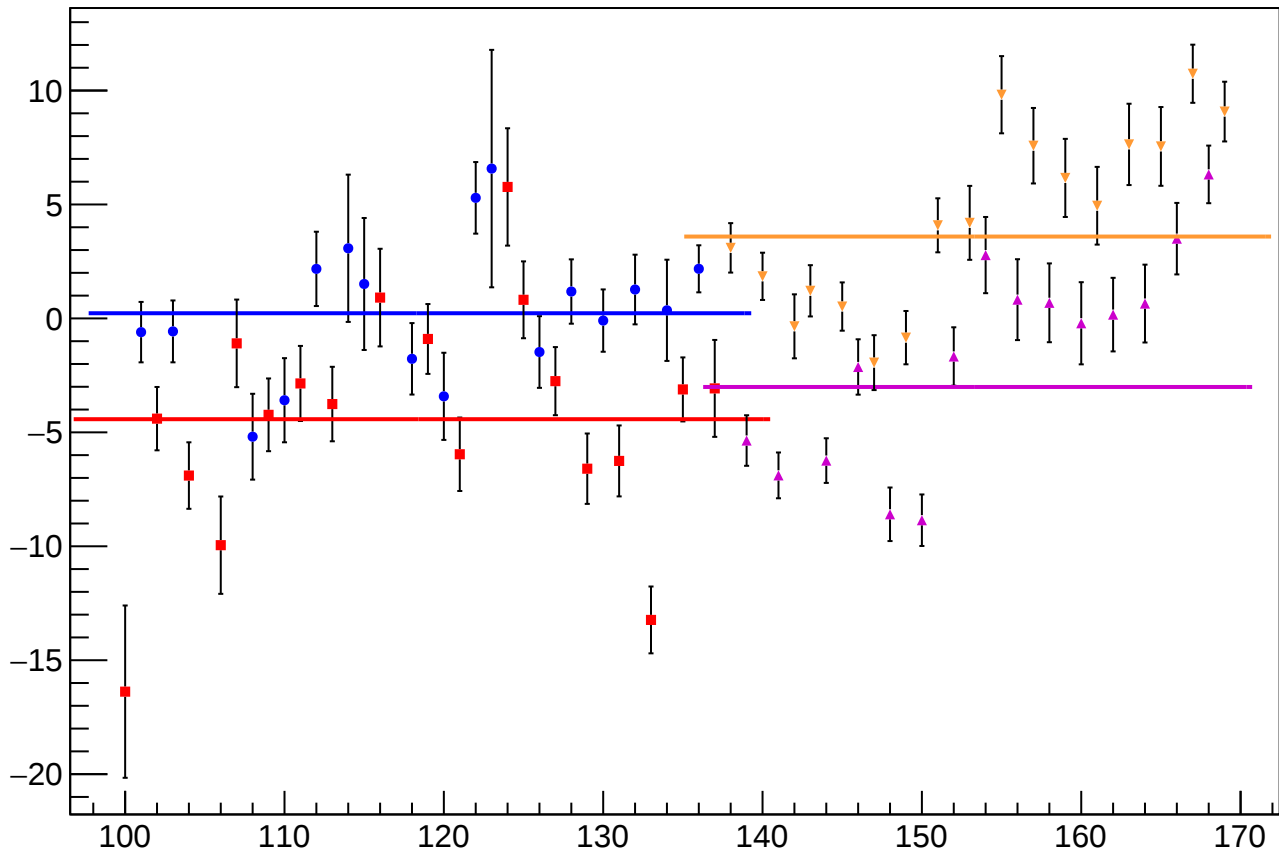
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 972.858+/-0.164 χ^2/NDF :1458632.8/31

Out: 972.067+/-0.158 χ^2/NDF :1532712.0/35

All: 972.448+/-0.114 χ^2/NDF : 2991356.9/67

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 $\chi^2/\text{NDF}: 38.5/16$

Left Out: 3.592 ± 0.321 $\chi^2/\text{NDF}: 141.0/16$

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: 0.472 ± 0.233 $\chi^2/\text{NDF}: 526.2/31$

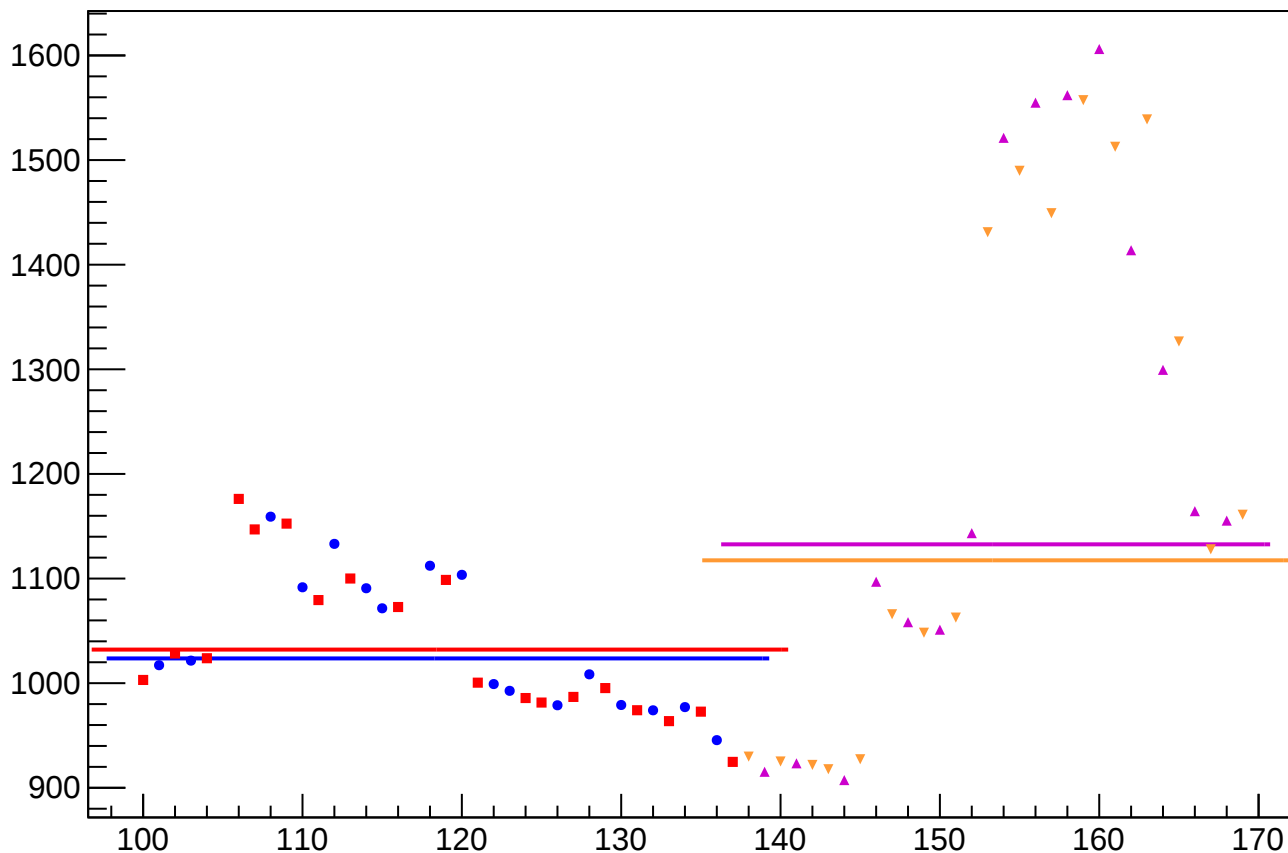
Right: -2.147 ± 0.276 $\chi^2/\text{NDF}: 212.6/35$

In: -1.638 ± 0.257 $\chi^2/\text{NDF}: 262.2/31$

Out: 0.326 ± 0.247 $\chi^2/\text{NDF}: 498.9/35$

All: -0.616 ± 0.178 $\chi^2/\text{NDF}: 791.4/67$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1117.421 $\pm$ 0.227 χ^2 /NDF: 943531.8/16

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: 1124.646 $\pm$ 0.165 χ^2 /NDF: 1798913.7/31

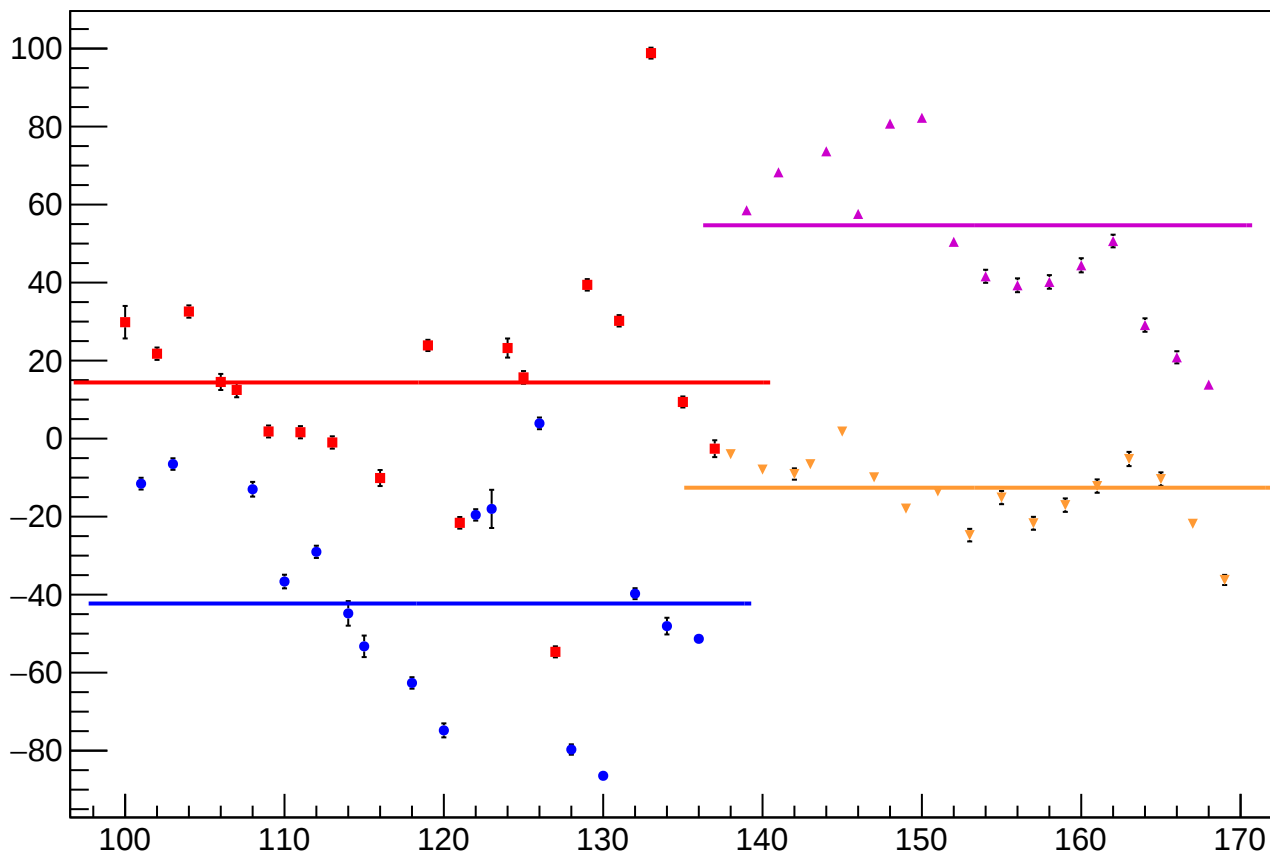
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1086.490 $\pm$ 0.182 χ^2 /NDF: 993449.5/31

Out: 1082.654 $\pm$ 0.175 χ^2 /NDF: 1060595.1/35

All: 1084.494 $\pm$ 0.126 χ^2 /NDF: 2054276.2/67

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 $\chi^2/\text{NDF}: 5126.8/16$

Left Out: -12.587 ± 0.327 $\chi^2/\text{NDF}: 807.1/16$

Right Out: 14.393 ± 0.378 $\chi^2/\text{NDF}: 7669.8/18$

Left In: 54.692 ± 0.347 $\chi^2/\text{NDF}: 3477.4/14$

Left: 19.055 ± 0.238 $\chi^2/\text{NDF}: 24226.5/31$

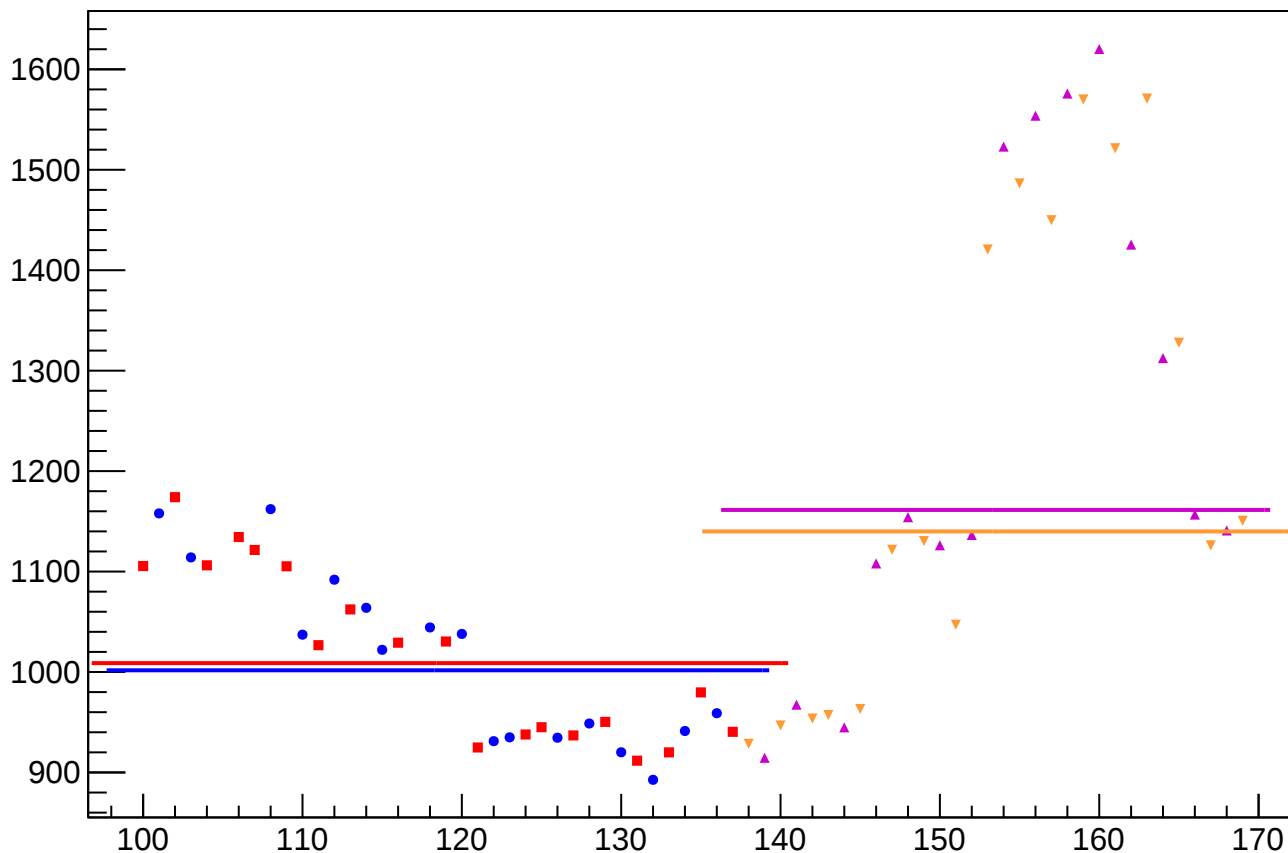
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 11.527 ± 0.258 $\chi^2/\text{NDF}: 43418.6/31$

Out: -1.066 ± 0.247 $\chi^2/\text{NDF}: 11388.8/35$

All: 4.957 ± 0.179 $\chi^2/\text{NDF}: 56047.4/67$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1139.953 $\pm$ 0.231 χ^2 /NDF:861341.7/16

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: 1150.019 $\pm$ 0.168 χ^2 /NDF: 1628112.1/31

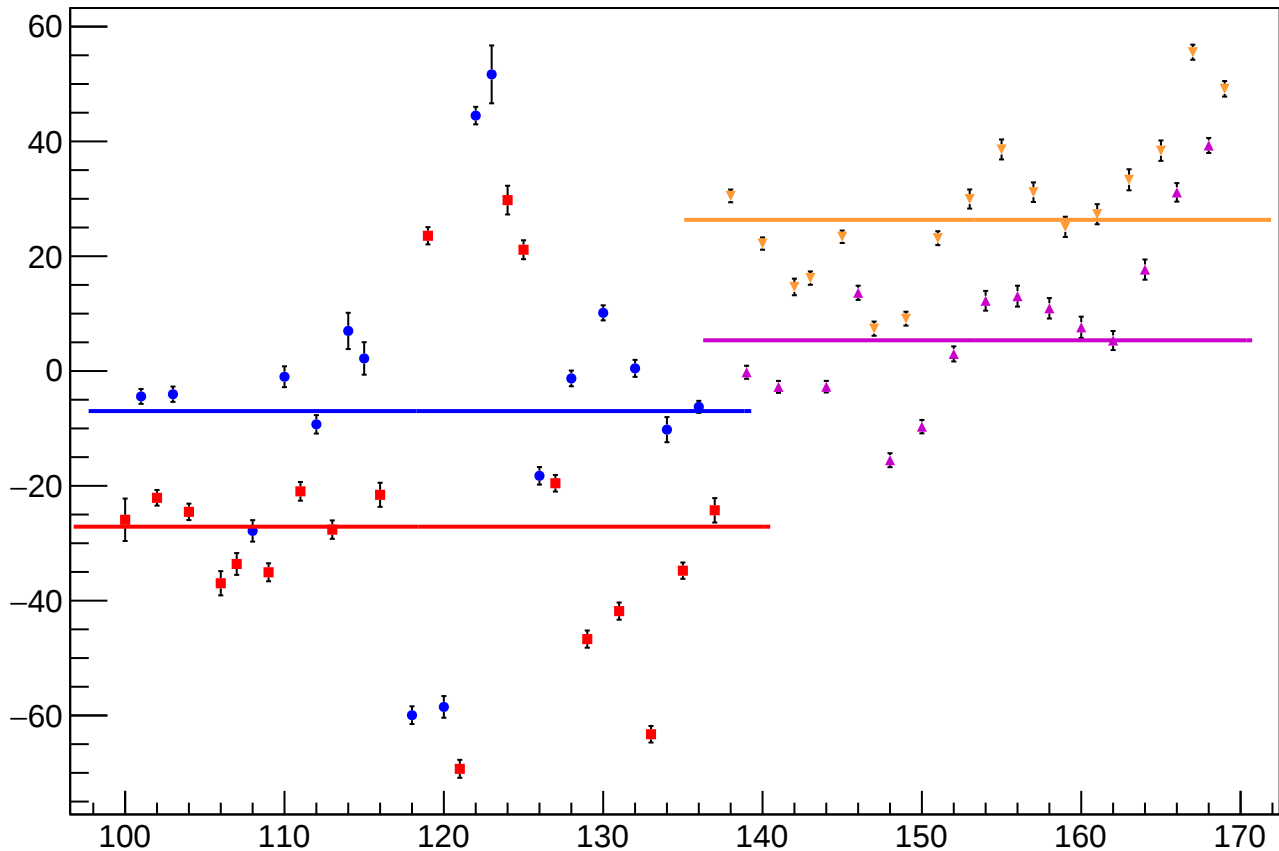
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1090.291 $\pm$ 0.183 χ^2 /NDF:1046951.0/31

Out: 1083.967 $\pm$ 0.175 χ^2 /NDF:1094208.0/35

All: 1086.992 $\pm$ 0.126 χ^2 /NDF: 2141784.5/67

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 26.338 ± 0.330 χ^2/NDF : 1520.0/16

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: 16.422 ± 0.240 χ^2/NDF : 5112.4/31

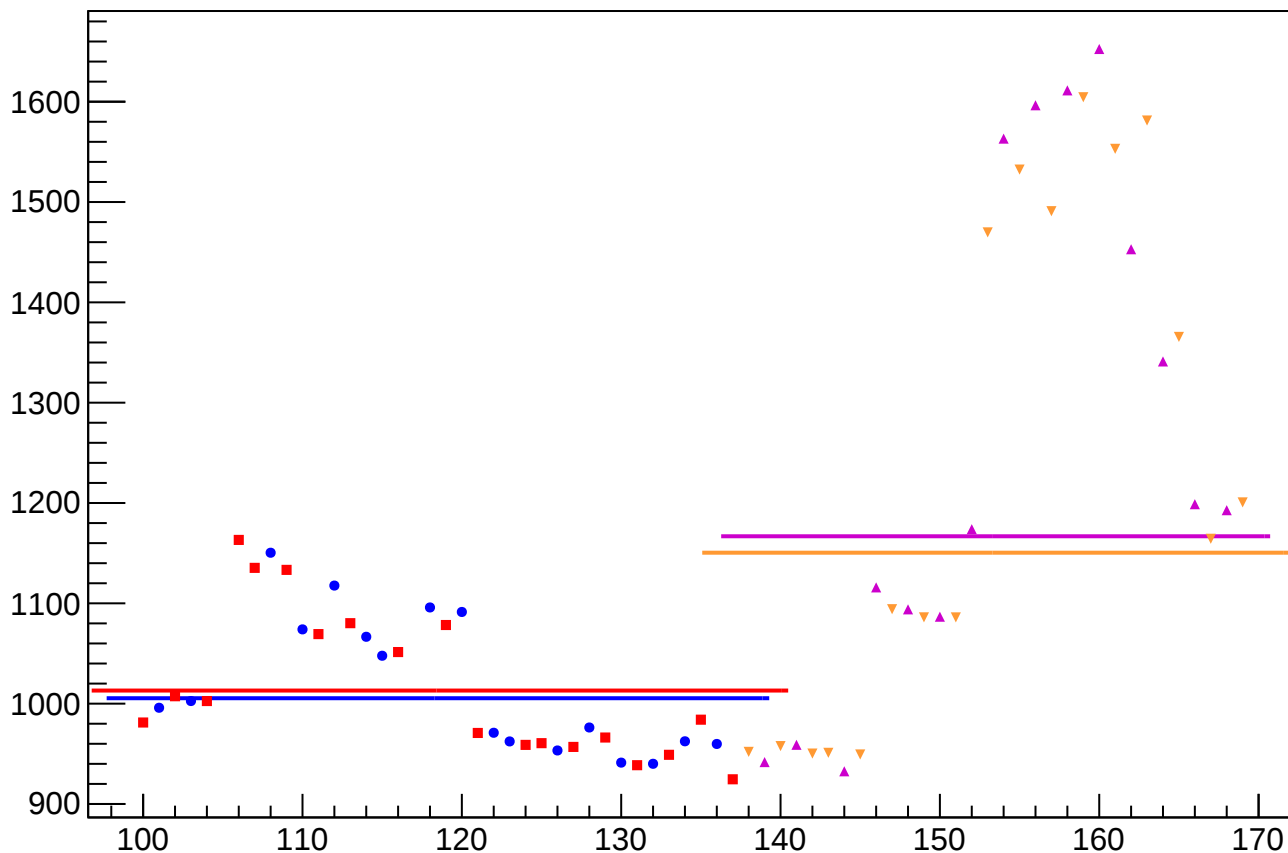
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: -0.159 ± 0.259 χ^2/NDF : 5878.1/31

Out: 3.317 ± 0.249 χ^2/NDF : 17093.4/35

All: 1.650 ± 0.180 χ^2/NDF : 23065.0/67

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1150.466 $\pm$ 0.233 χ^2 /NDF: 939361.7/16

Right Out: 1013.064 $\pm$ 0.268 χ^2 /NDF: 63265.7/18

Left In: 1166.838 $\pm$ 0.247 χ^2 /NDF: 845197.3/14

Left: 1158.202 $\pm$ 0.170 χ^2 /NDF: 1786882.7/31

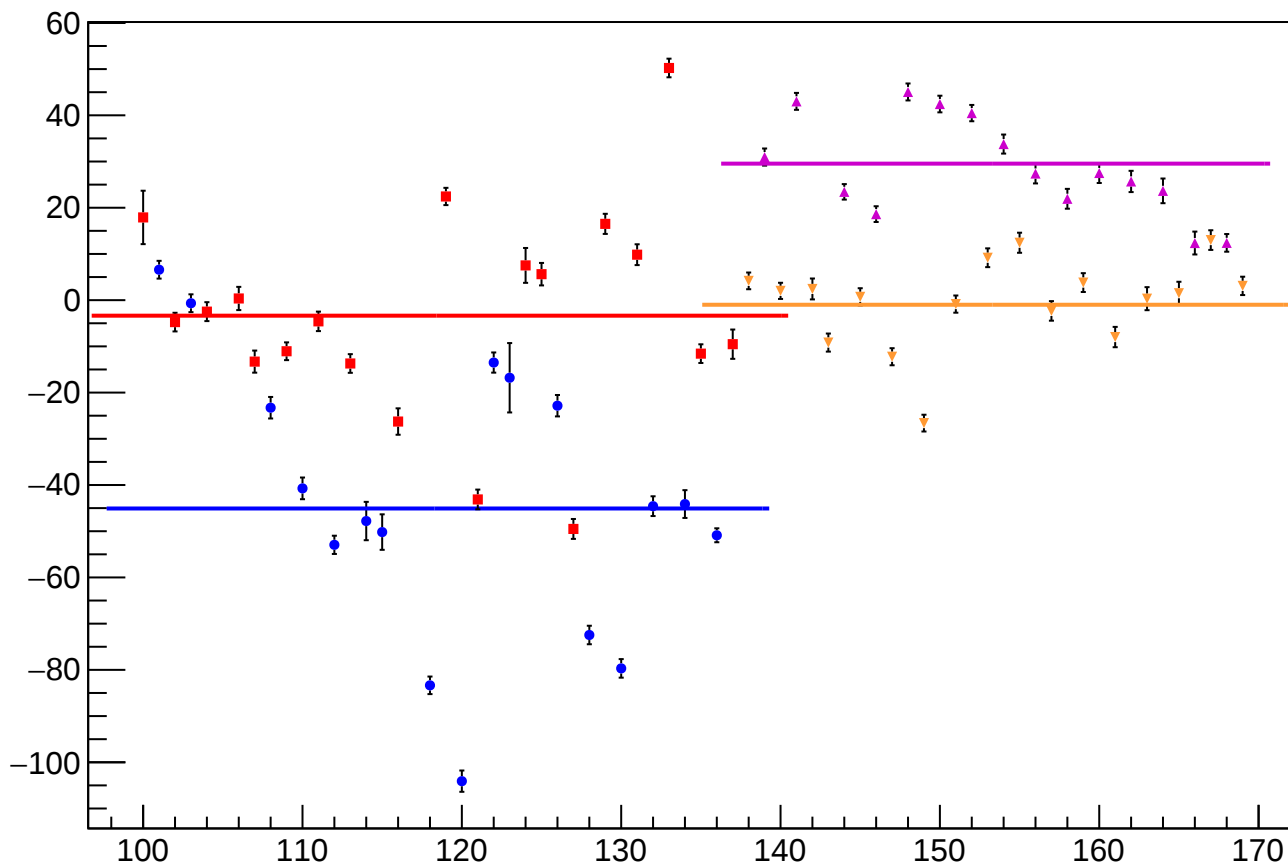
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1094.669 $\pm$ 0.183 χ^2 /NDF: 1091253.6/31

Out: 1091.292 $\pm$ 0.176 χ^2 /NDF: 1151822.2/35

All: 1092.912 $\pm$ 0.127 χ^2 /NDF: 2243252.1/67

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -0.993 ± 0.489 χ^2/NDF : 396.1/16

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: 13.671 ± 0.352 χ^2/NDF : 2695.7/31

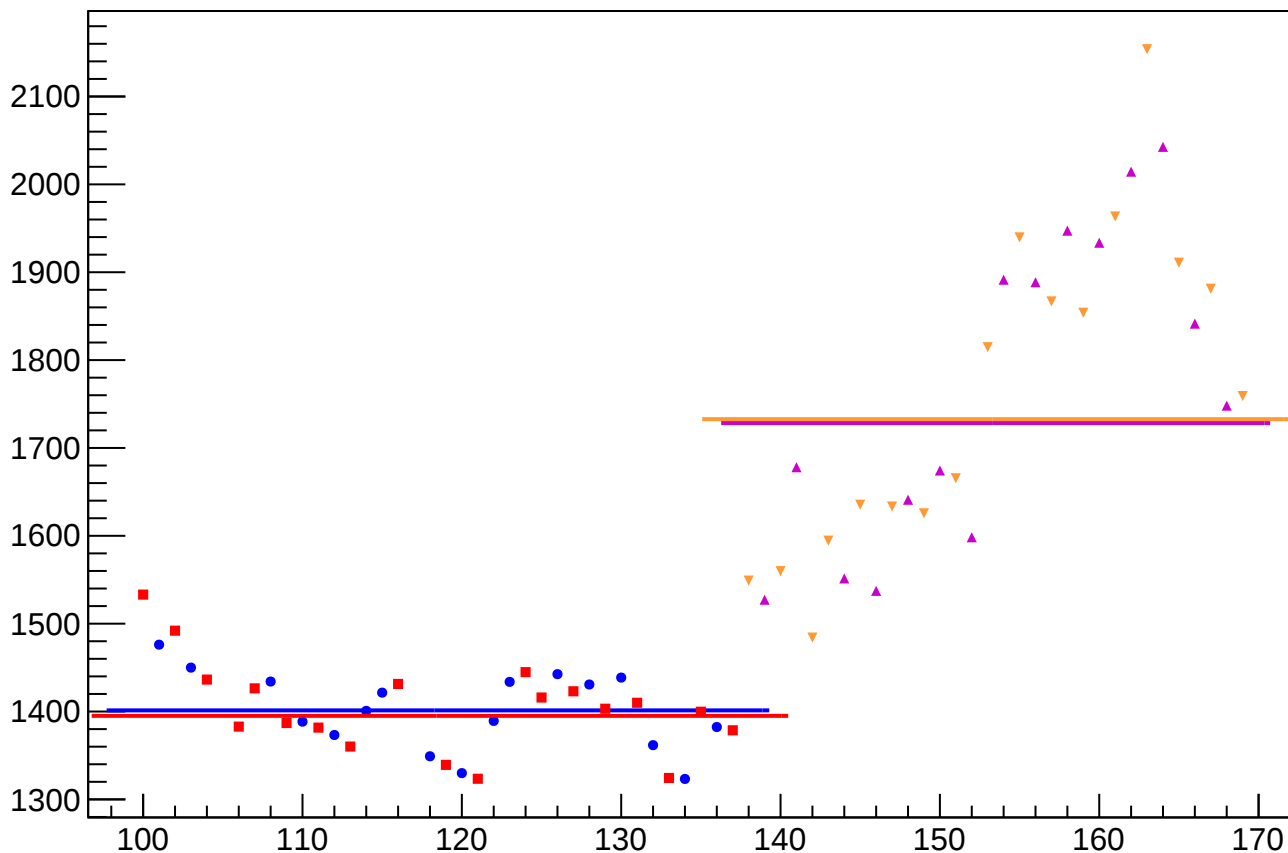
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -5.549 ± 0.370 χ^2/NDF : 13791.2/31

Out: -2.098 ± 0.357 χ^2/NDF : 2412.7/35

All: -3.760 ± 0.257 χ^2/NDF : 16249.0/67

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 ± 0.382 χ^2/NDF : 12852.1/16

Left Out: 1732.761 ± 0.346 χ^2/NDF : 231193.1/16

Right Out: 1395.105 ± 0.369 χ^2/NDF : 15520.0/18

Left In: 1728.411 ± 0.360 χ^2/NDF : 215322.0/14

Left: 1730.672 ± 0.249 χ^2/NDF : 446591.2/31

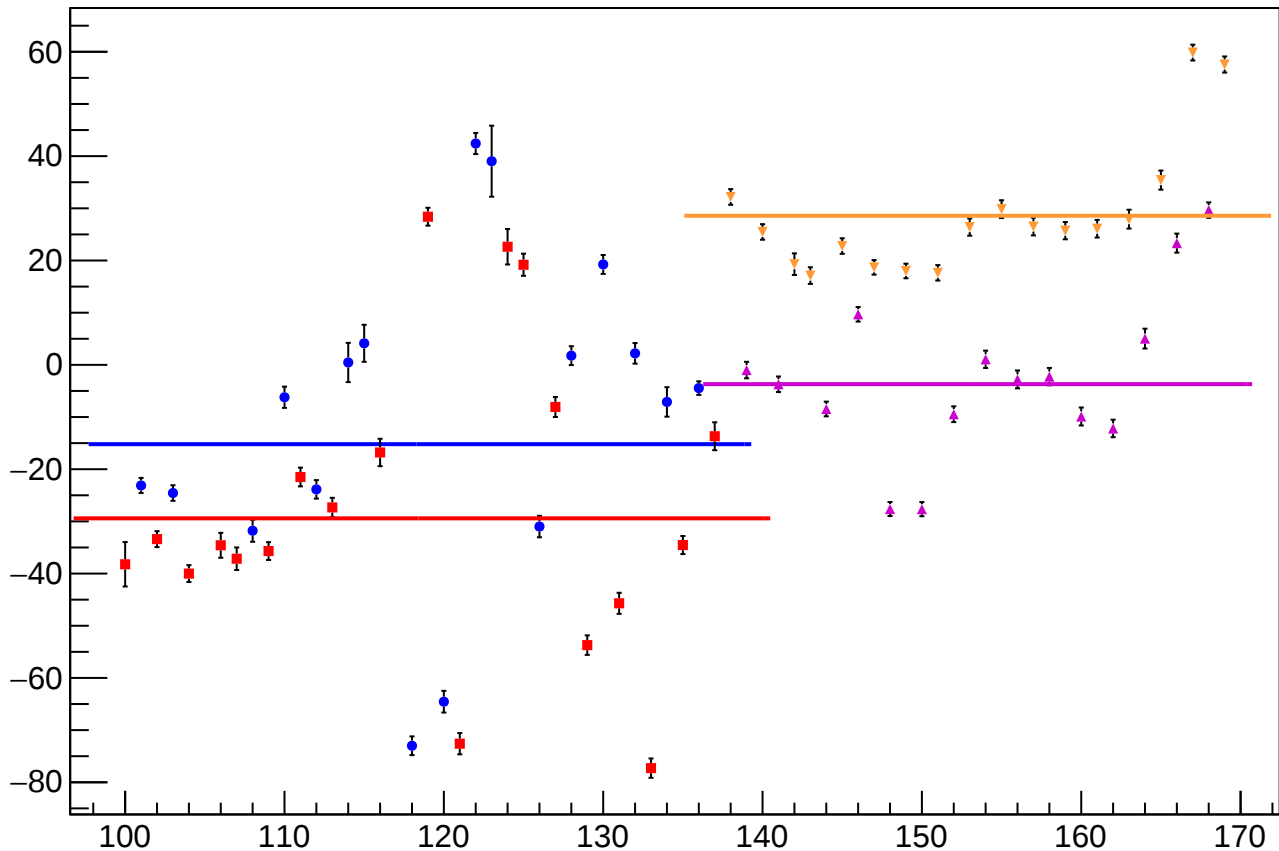
Right: 1398.102 ± 0.265 χ^2/NDF : 28508.5/35

In: 1574.592 ± 0.262 χ^2/NDF : 617379.7/31

Out: 1574.967 ± 0.252 χ^2/NDF : 692791.5/35

All: 1574.786 ± 0.182 χ^2/NDF : 1310172.2/67

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 28.578 ± 0.387 χ^2/NDF : 1060.1/16

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: -3.696 ± 0.402 χ^2/NDF : 1546.1/14

Left: 13.068 ± 0.279 χ^2/NDF : 5954.9/31

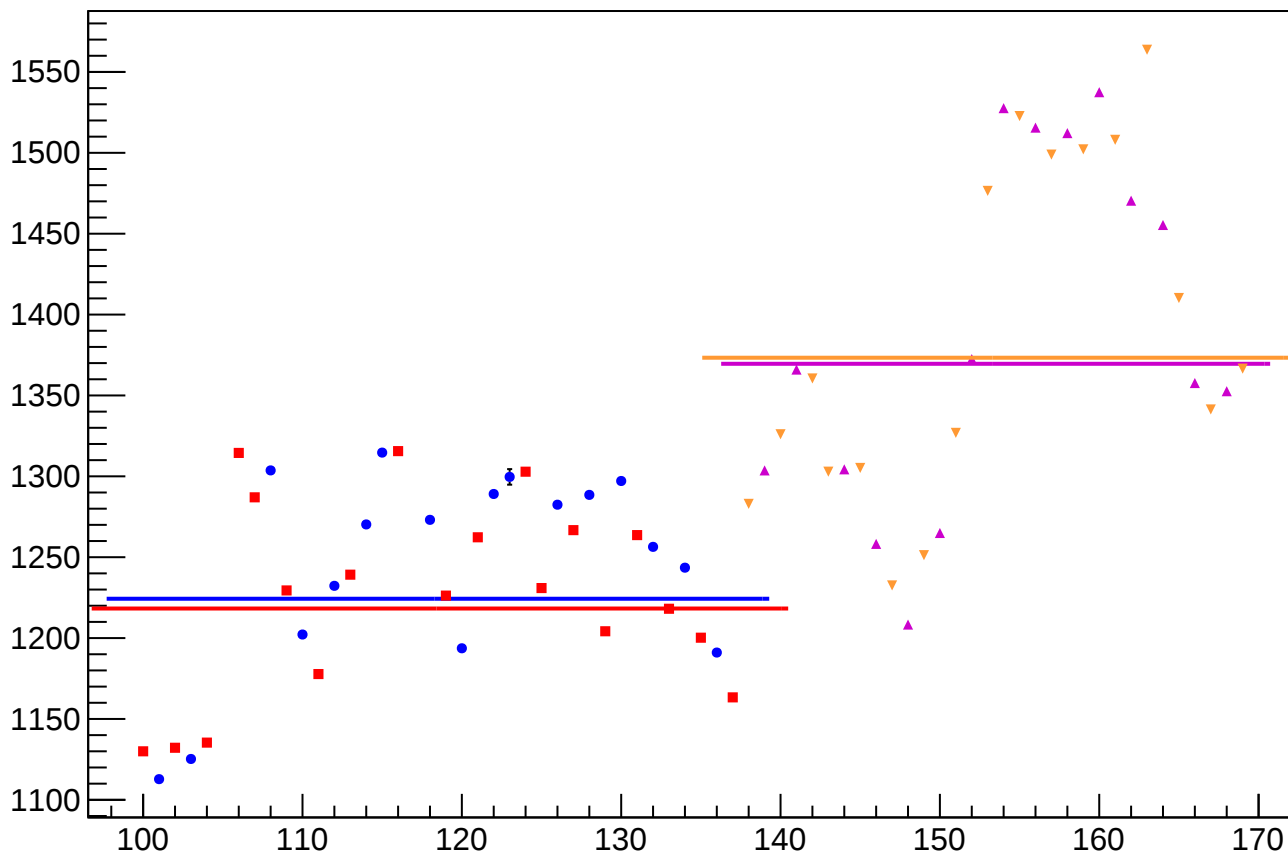
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -8.531 ± 0.306 χ^2/NDF : 5253.0/31

Out: 4.335 ± 0.295 χ^2/NDF : 14011.0/35

All: -1.860 ± 0.212 χ^2/NDF : 20180.2/67

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1373.328+/-0.273 χ^2/NDF :137962.8/16

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: 1371.522+/-0.197 χ^2/NDF : 277219.3/31

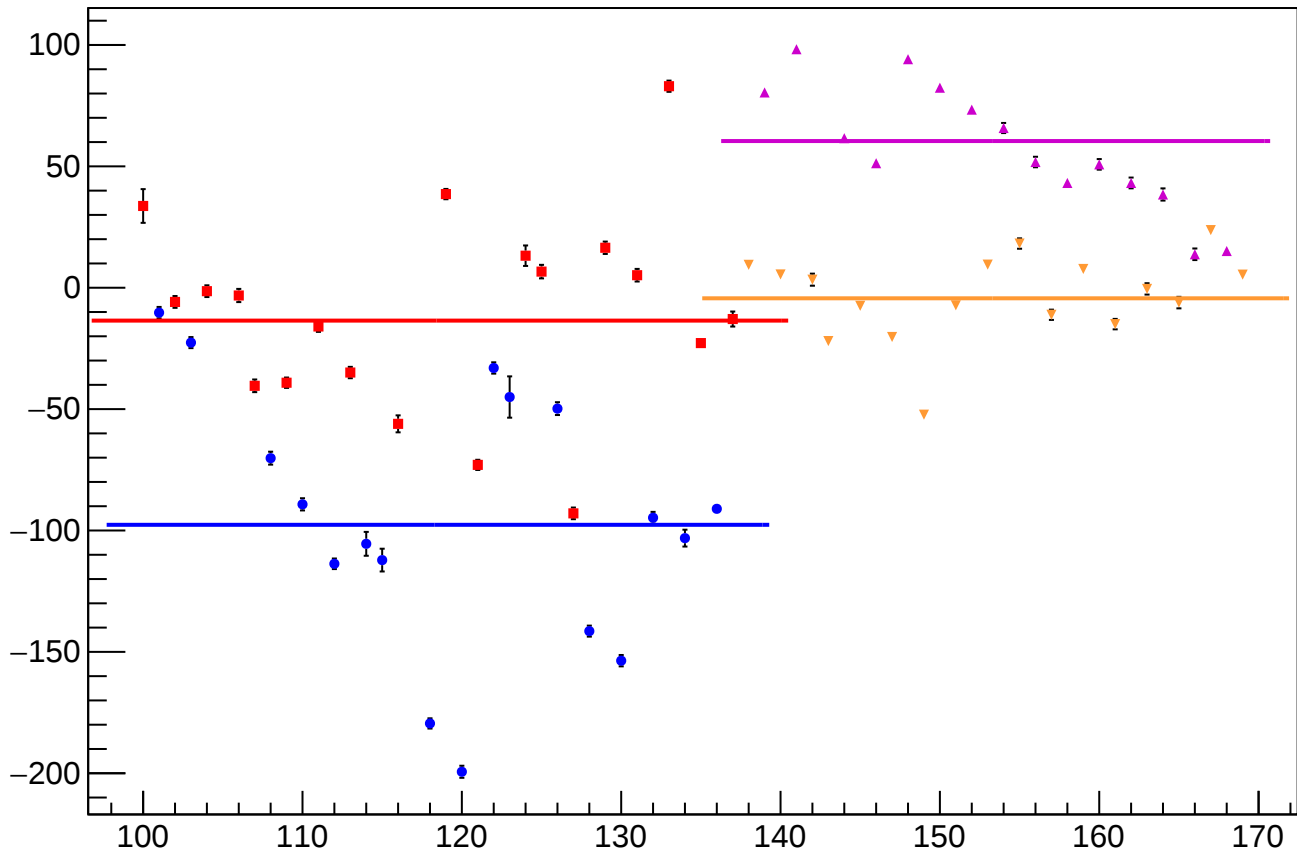
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1308.531+/-0.216 χ^2/NDF :287698.2/31

Out: 1308.515+/-0.209 χ^2/NDF :300000.0/35

All: 1308.522+/-0.150 χ^2/NDF : 587698.2/67

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -4.353 ± 0.487 χ^2/NDF : 1396.4/16

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 60.425 ± 0.509 χ^2/NDF : 2322.3/14

Left: 26.594 ± 0.352 χ^2/NDF : 12184.2/31

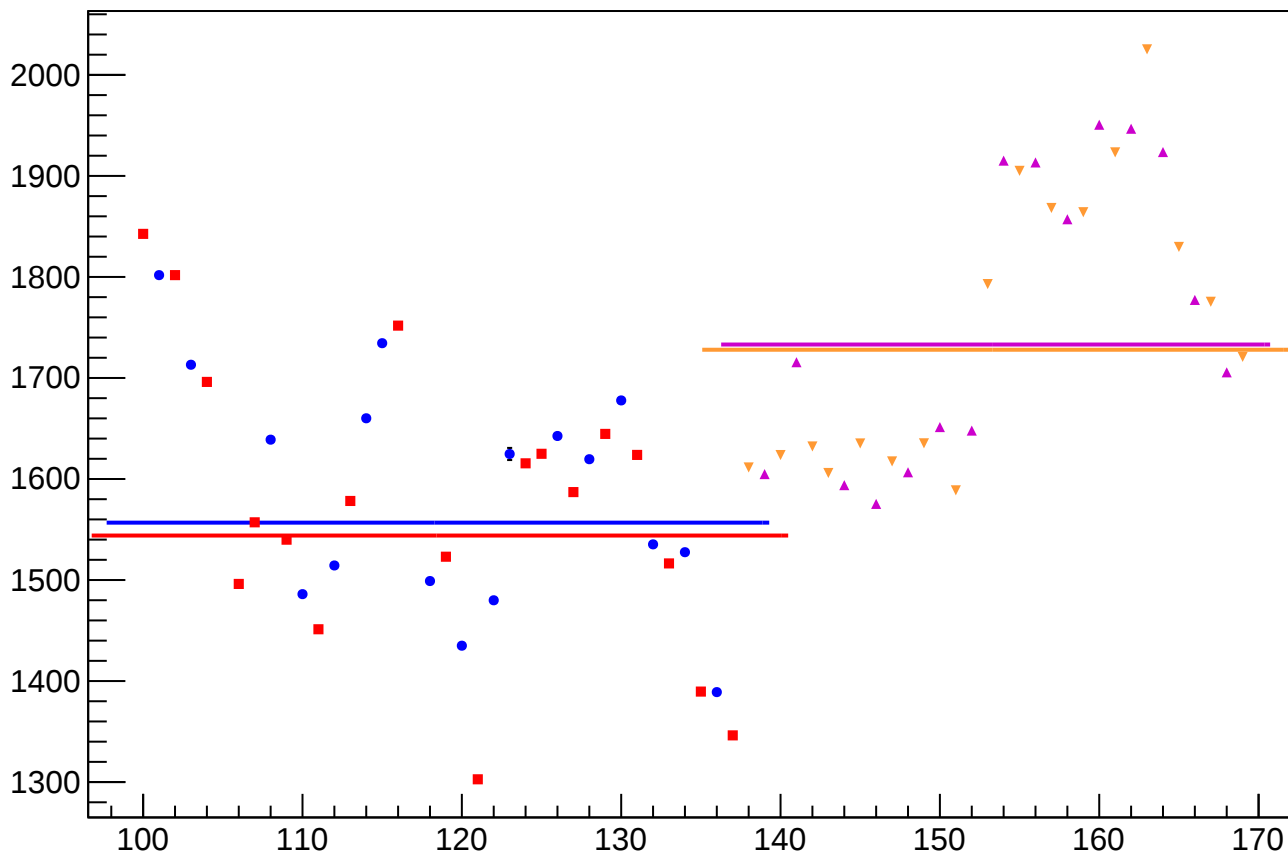
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: -5.532 ± 0.388 χ^2/NDF : 50535.3/31

Out: -8.153 ± 0.373 χ^2/NDF : 6672.0/35

All: -6.897 ± 0.269 χ^2/NDF : 57231.0/67

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1727.941 $\pm$ 0.344 χ^2 /NDF: 141462.8/16

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: 1730.410 $\pm$ 0.249 χ^2 /NDF: 285874.8/31

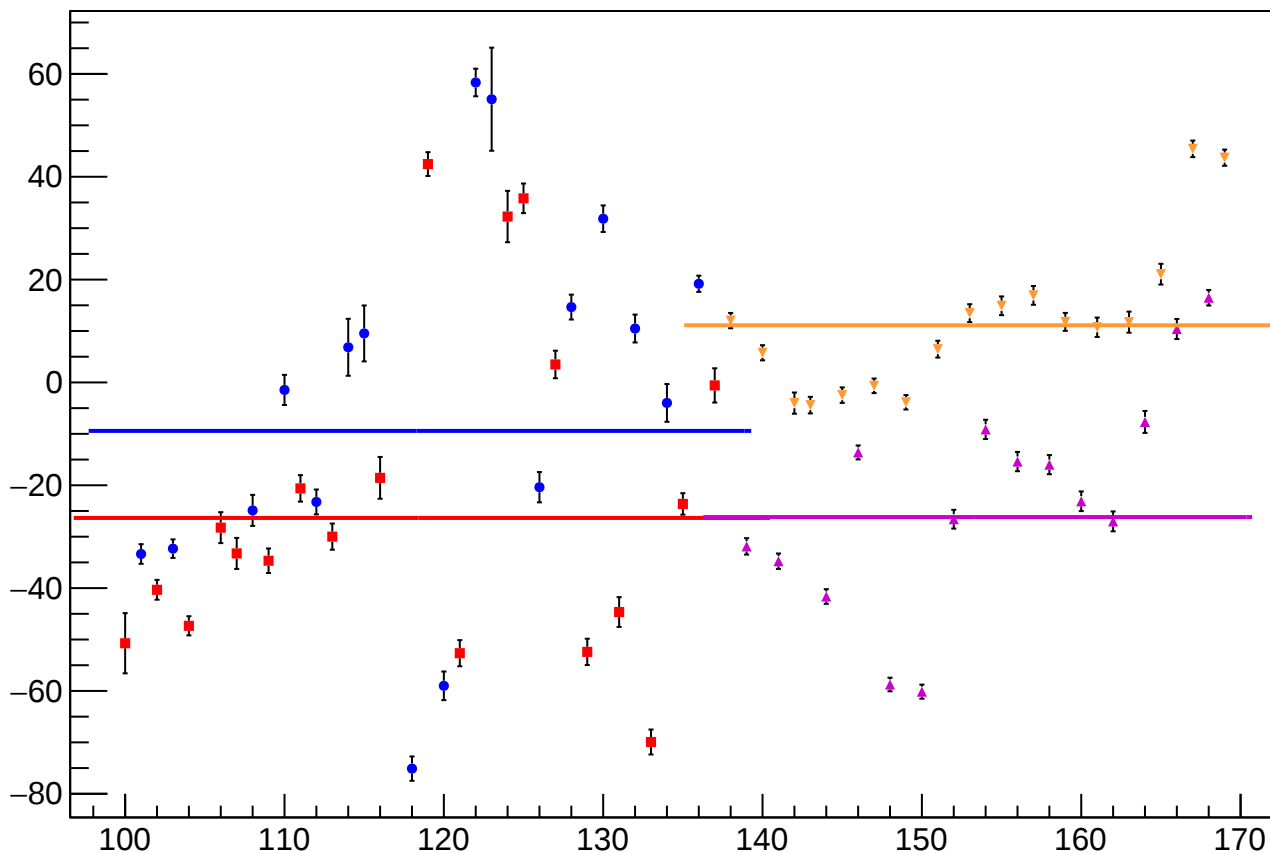
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1659.546 $\pm$ 0.275 χ^2 /NDF: 326053.2/31

Out: 1651.867 $\pm$ 0.263 χ^2 /NDF: 360122.0/35

All: 1655.547 $\pm$ 0.190 χ^2 /NDF: 686582.3/67

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 11.115 ± 0.403 χ^2/NDF : 1355.3/16

Right Out: -26.354 ± 0.603 χ^2/NDF : 2472.1/18

Left In: -26.181 ± 0.423 χ^2/NDF : 2839.6/14

Left: -6.622 ± 0.292 χ^2/NDF : 8272.4/31

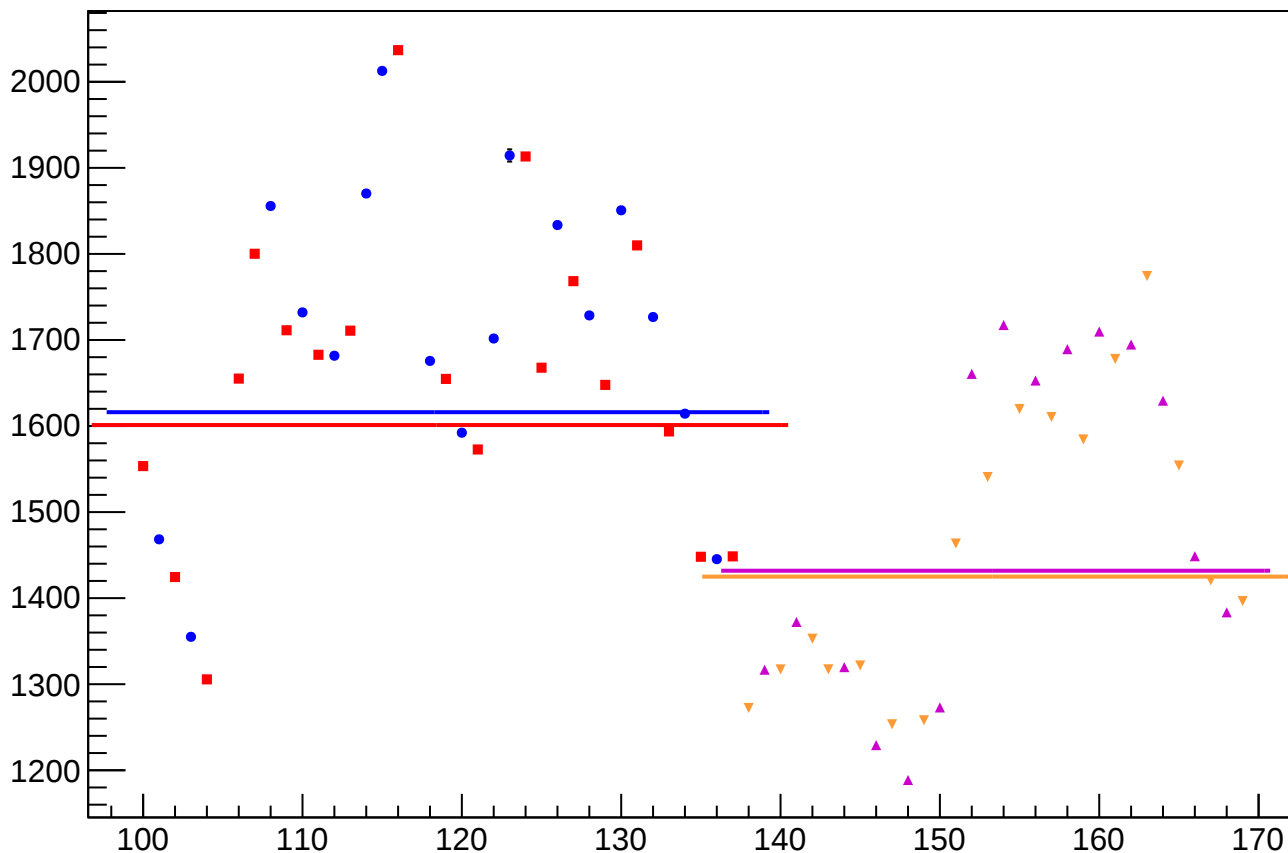
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -20.935 ± 0.351 χ^2/NDF : 6255.0/31

Out: -0.451 ± 0.335 χ^2/NDF : 6498.5/35

All: -10.225 ± 0.242 χ^2/NDF : 14538.8/67

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1425.033+/-0.285 χ^2/NDF : 283217.9/16

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: 1428.289+/-0.206 χ^2/NDF : 690445.8/31

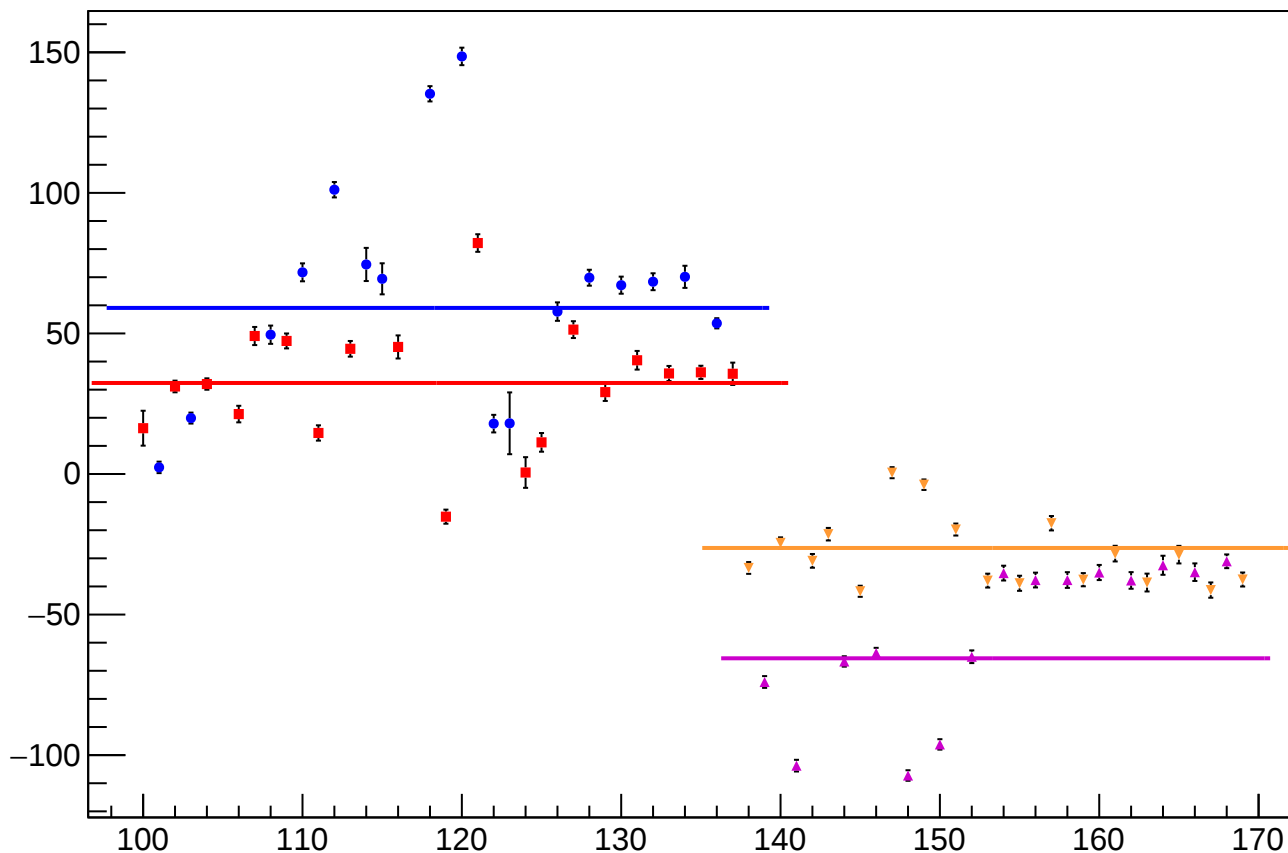
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1489.562+/-0.248 χ^2/NDF : 675337.7/31

Out: 1479.390+/-0.237 χ^2/NDF : 554876.0/35

All: 1484.244+/-0.171 χ^2/NDF : 1231094.2/67

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -26.310 ± 0.565 χ^2/NDF : 566.2/16

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: -44.957 ± 0.409 χ^2/NDF : 4929.7/31

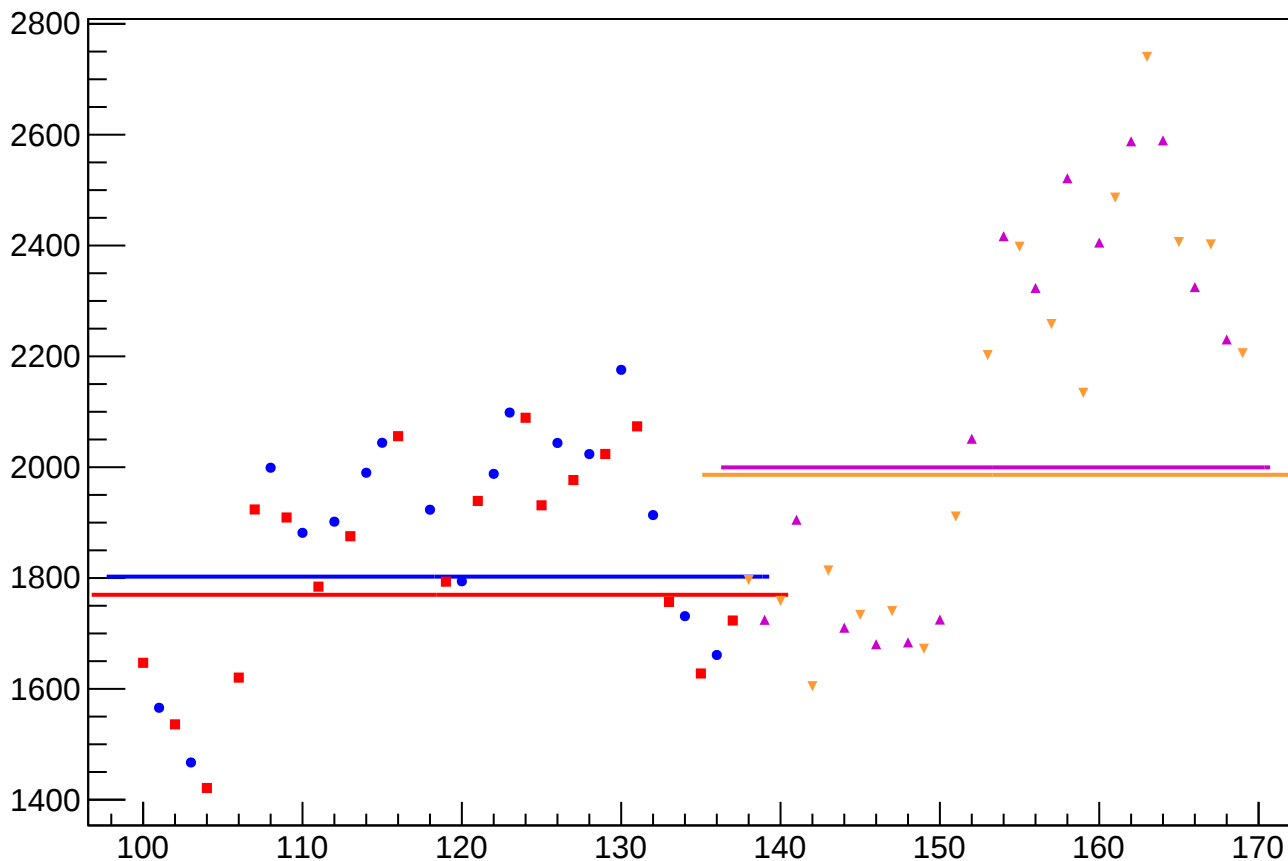
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -13.349 ± 0.453 χ^2/NDF : 23816.7/31

Out: -1.769 ± 0.431 χ^2/NDF : 5970.0/35

All: -7.275 ± 0.312 χ^2/NDF : 30130.0/67

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1986.260+/-0.399 χ^2/NDF : 594629.7/16

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: 1992.629+/-0.289 χ^2/NDF : 1218010.0/31

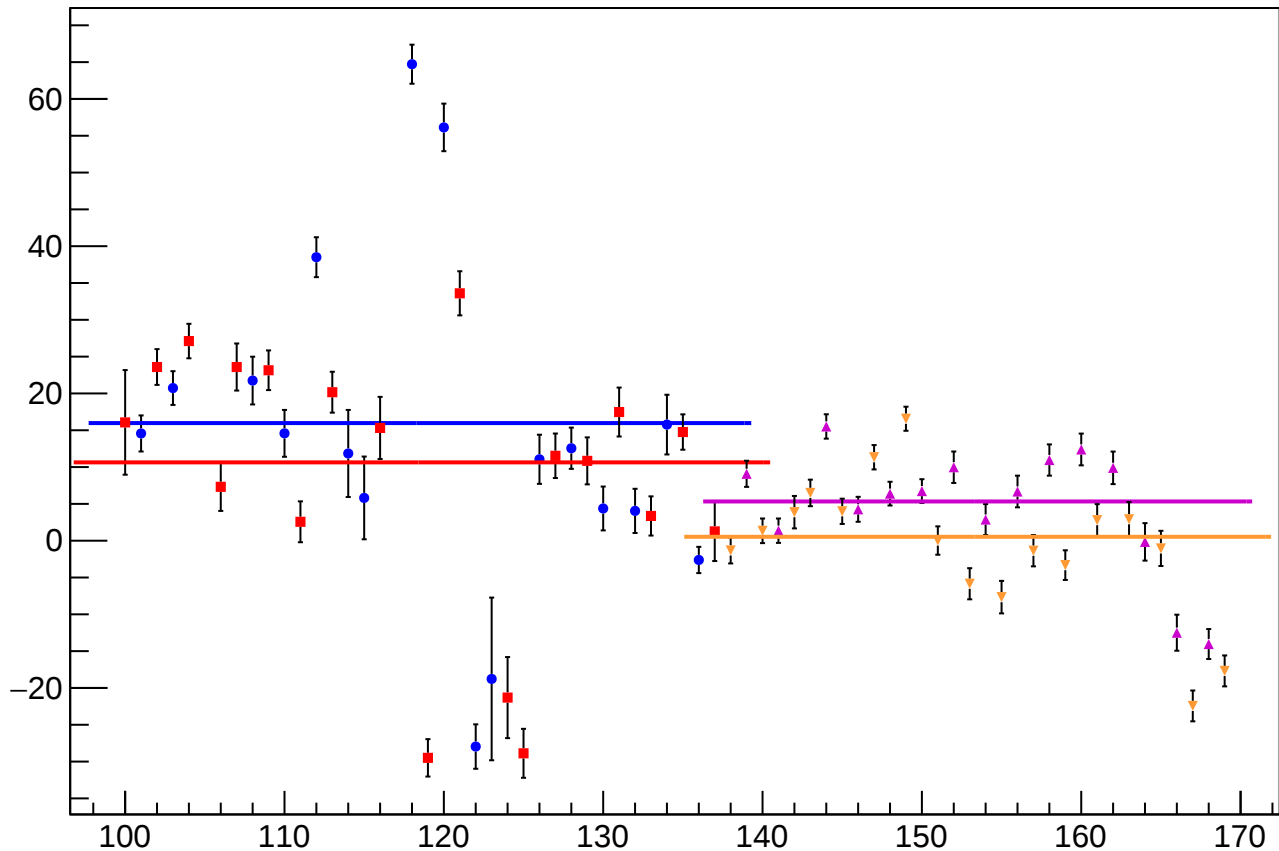
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1917.086+/-0.320 χ^2/NDF : 899240.3/31

Out: 1895.740+/-0.305 χ^2/NDF : 895307.9/35

All: 1905.889+/-0.221 χ^2/NDF : 1796880.8/67

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 $\pm$ 0.722 χ^2 /NDF: 938.4/16

Left Out: 0.531 $\pm$ 0.473 χ^2 /NDF:383.1/16

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: 2.809 $\pm$ 0.343 χ^2 /NDF: 658.2/31

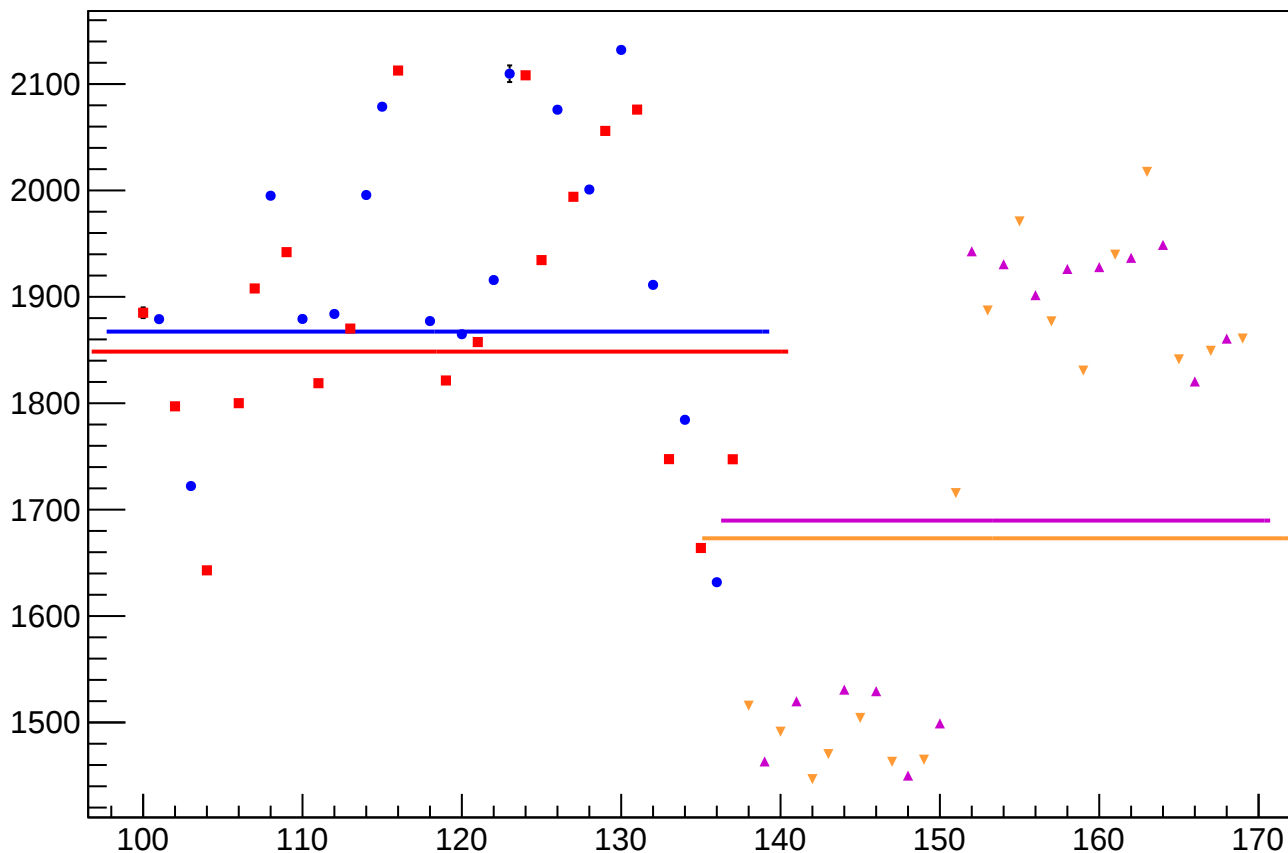
Right: 13.200 $\pm$ 0.500 χ^2 /NDF: 1608.9/35

In: 8.766 $\pm$ 0.410 χ^2 /NDF:1312.1/31

Out: 3.744 $\pm$ 0.391 χ^2 /NDF:1170.1/35

All: 6.136 $\pm$ 0.283 χ^2 /NDF: 2560.8/67

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2/NDF : 80926.4/16

Left Out: 1673.064 $\pm$ 0.335 χ^2/NDF : 372156.9/16

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: 1680.974 $\pm$ 0.243 χ^2/NDF : 723959.8/31

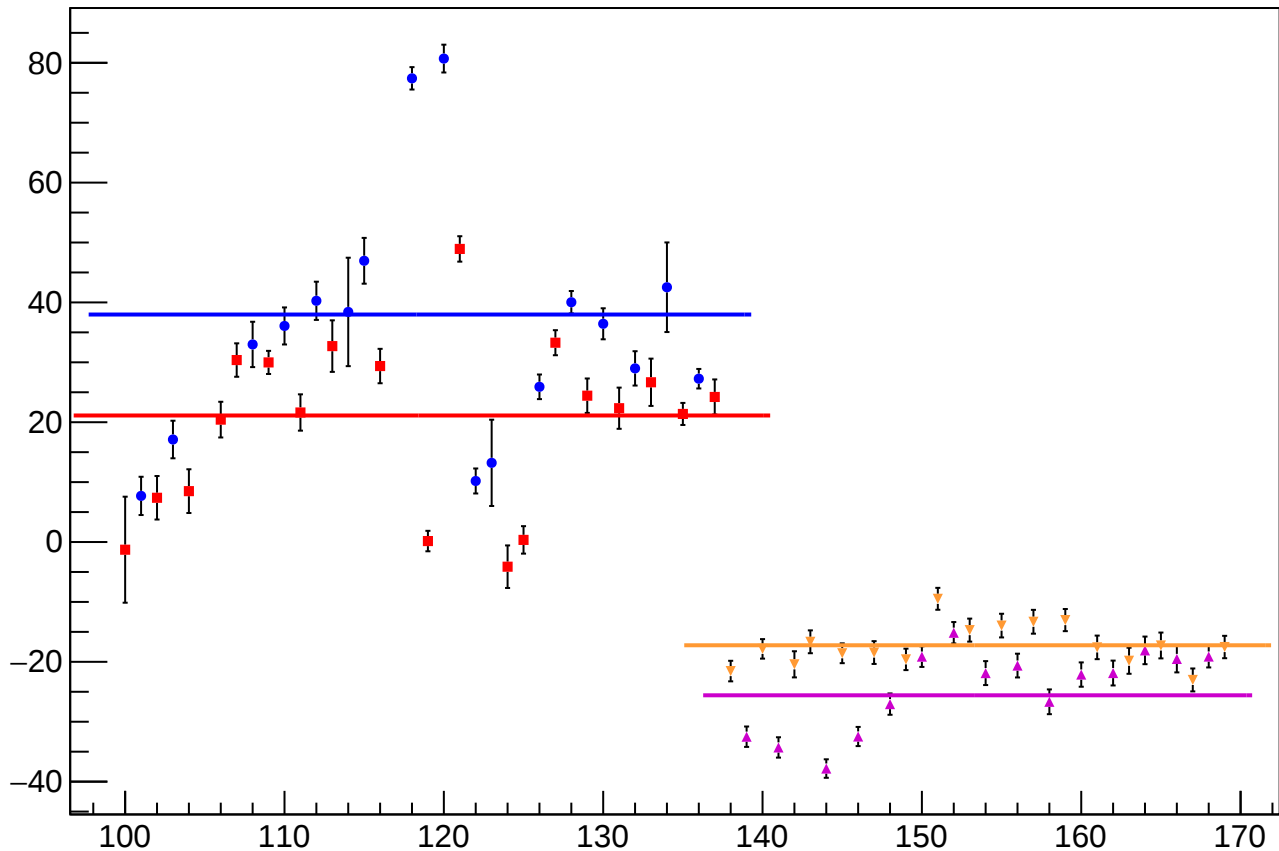
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1747.044 $\pm$ 0.290 χ^2/NDF : 513614.7/31

Out: 1728.852 $\pm$ 0.276 χ^2/NDF : 532051.6/35

All: 1737.517 $\pm$ 0.200 χ^2/NDF : 1047729.1/67

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.236 ± 0.458 $\chi^2/\text{NDF}: 53.6/16$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -25.587 ± 0.478 $\chi^2/\text{NDF}: 219.7/14$

Left: -21.230 ± 0.331 $\chi^2/\text{NDF}: 432.4/31$

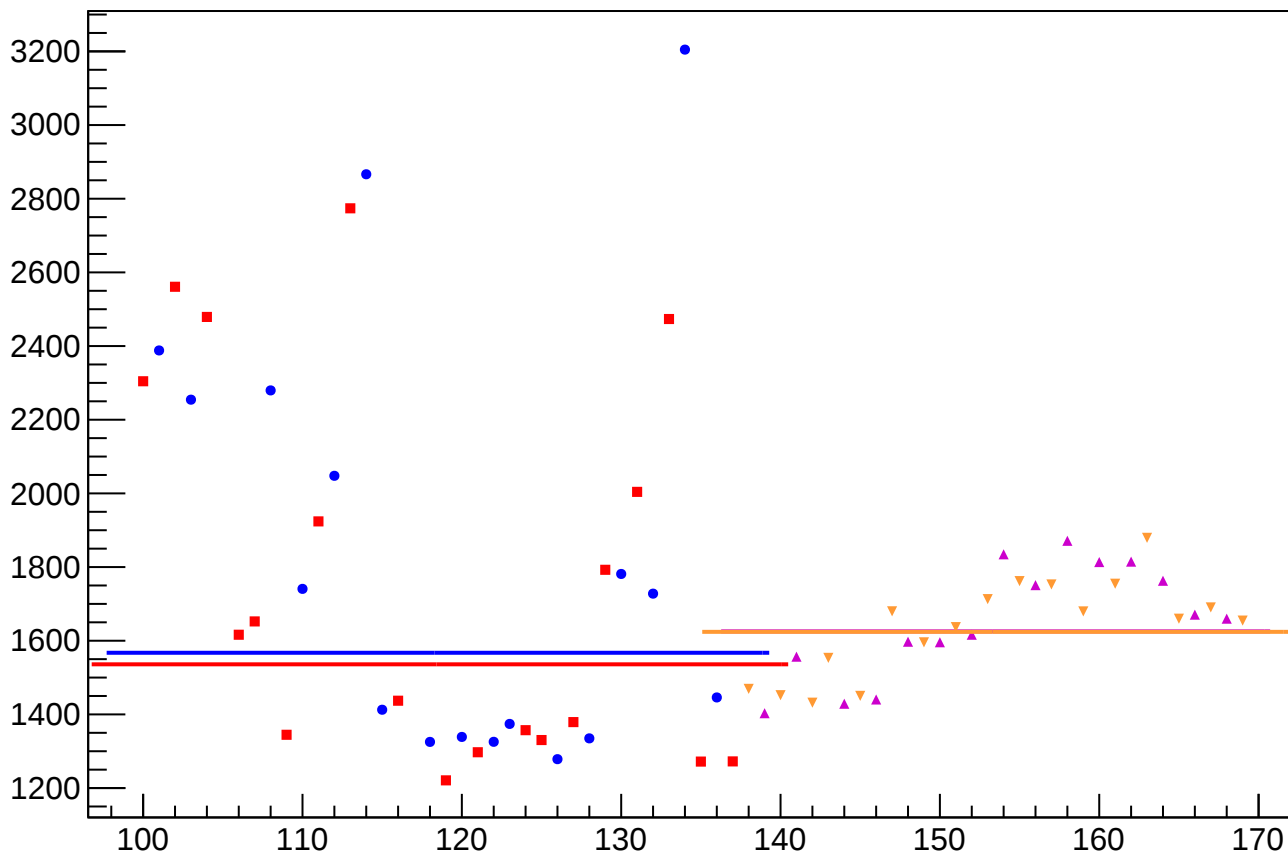
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -2.691 ± 0.383 $\chi^2/\text{NDF}: 7787.8/31$

Out: -3.365 ± 0.366 $\chi^2/\text{NDF}: 3165.6/35$

All: -3.043 ± 0.264 $\chi^2/\text{NDF}: 10955.1/67$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1624.138 $\pm$ 0.324 χ^2 /NDF: 145222.6/16

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: 1624.753 $\pm$ 0.234 χ^2 /NDF: 343505.2/31

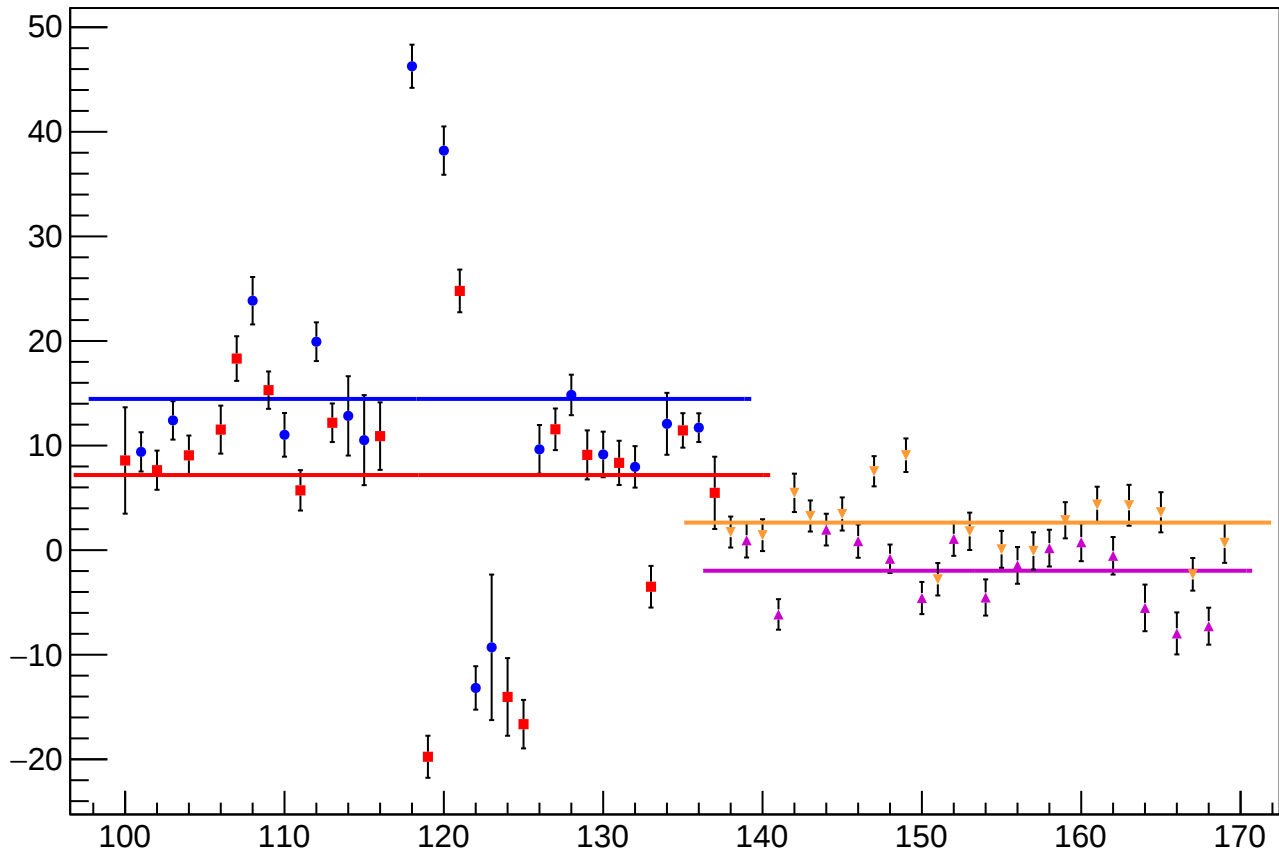
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1604.498 $\pm$ 0.270 χ^2 /NDF: 882357.3/31

Out: 1592.256 $\pm$ 0.259 χ^2 /NDF: 1054141.8/35

All: 1598.104 $\pm$ 0.187 χ^2 /NDF: 1937569.1/67

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 2.633 $\pm$ 0.403 χ^2 /NDF: 61.4/16

Right Out: 7.181 $\pm$ 0.494 χ^2 /NDF: 495.7/18

Left In: -1.969 $\pm$ 0.431 χ^2 /NDF: 55.4/14

Left: 0.488 $\pm$ 0.294 χ^2 /NDF: 177.6/31

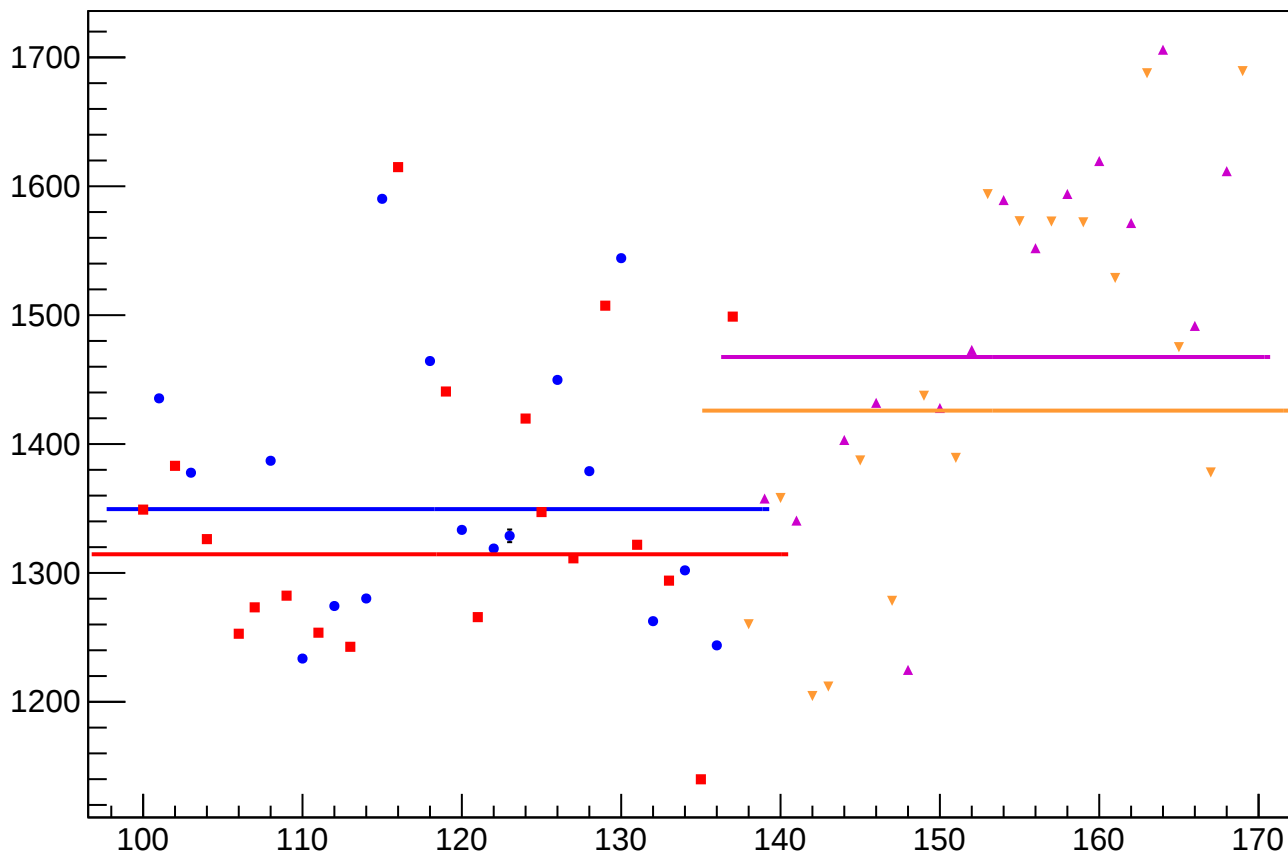
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 4.680 $\pm$ 0.333 χ^2 /NDF: 1238.4/31

Out: 4.448 $\pm$ 0.312 χ^2 /NDF: 607.9/35

All: 4.557 $\pm$ 0.228 χ^2 /NDF: 1846.5/67

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1425.949 $\pm$ 0.285 χ^2 /NDF: 266403.3/16

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1467.539 $\pm$ 0.305 χ^2 /NDF: 175643.5/14

Left: 1445.332 $\pm$ 0.208 χ^2 /NDF: 451974.0/31

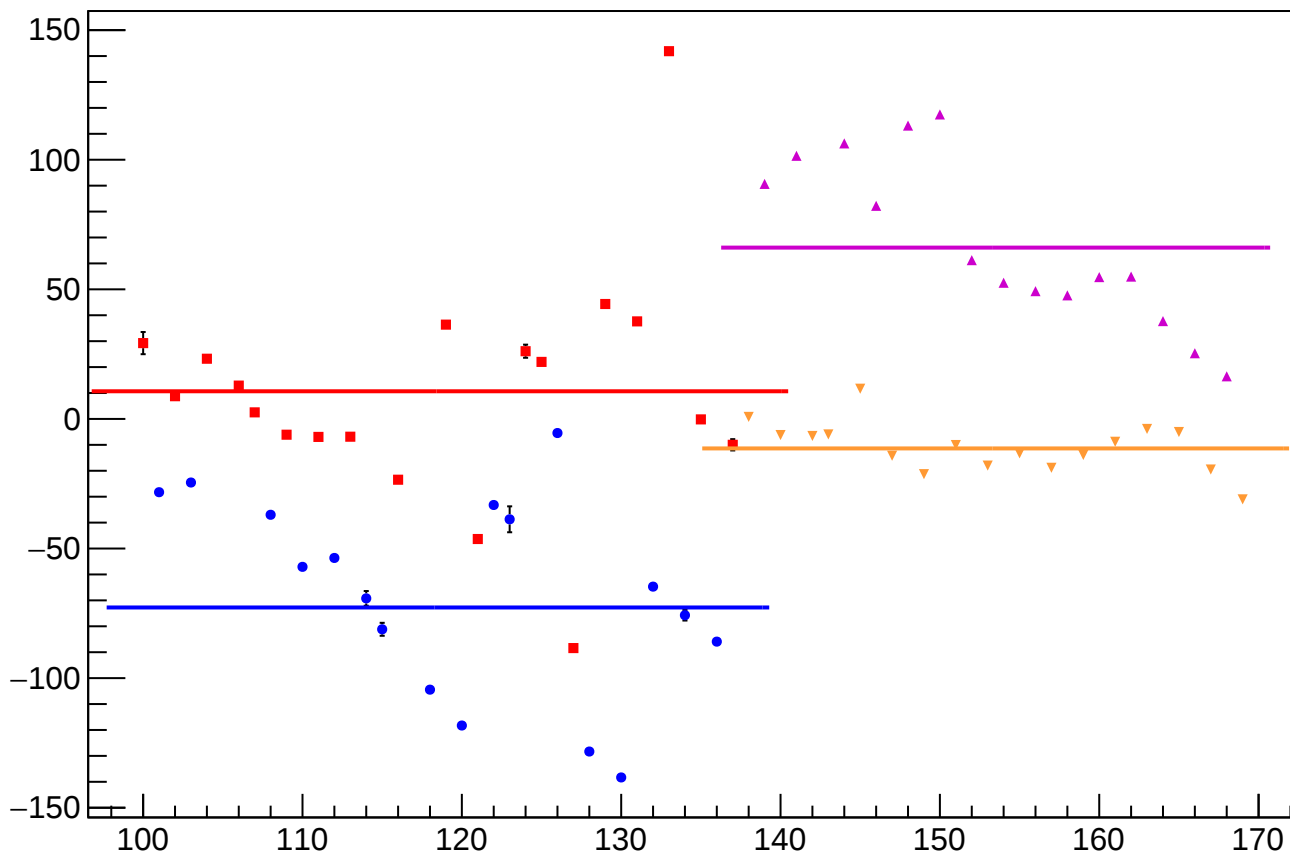
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1419.782 $\pm$ 0.235 χ^2 /NDF: 300892.2/31

Out: 1381.450 $\pm$ 0.221 χ^2 /NDF: 408438.4/35

All: 1399.401 $\pm$ 0.161 χ^2 /NDF: 723435.2/67

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -11.381 +/- 0.260 χ^2/NDF : 1419.3/16

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: 25.266 +/- 0.189 χ^2/NDF : 56370.0/31

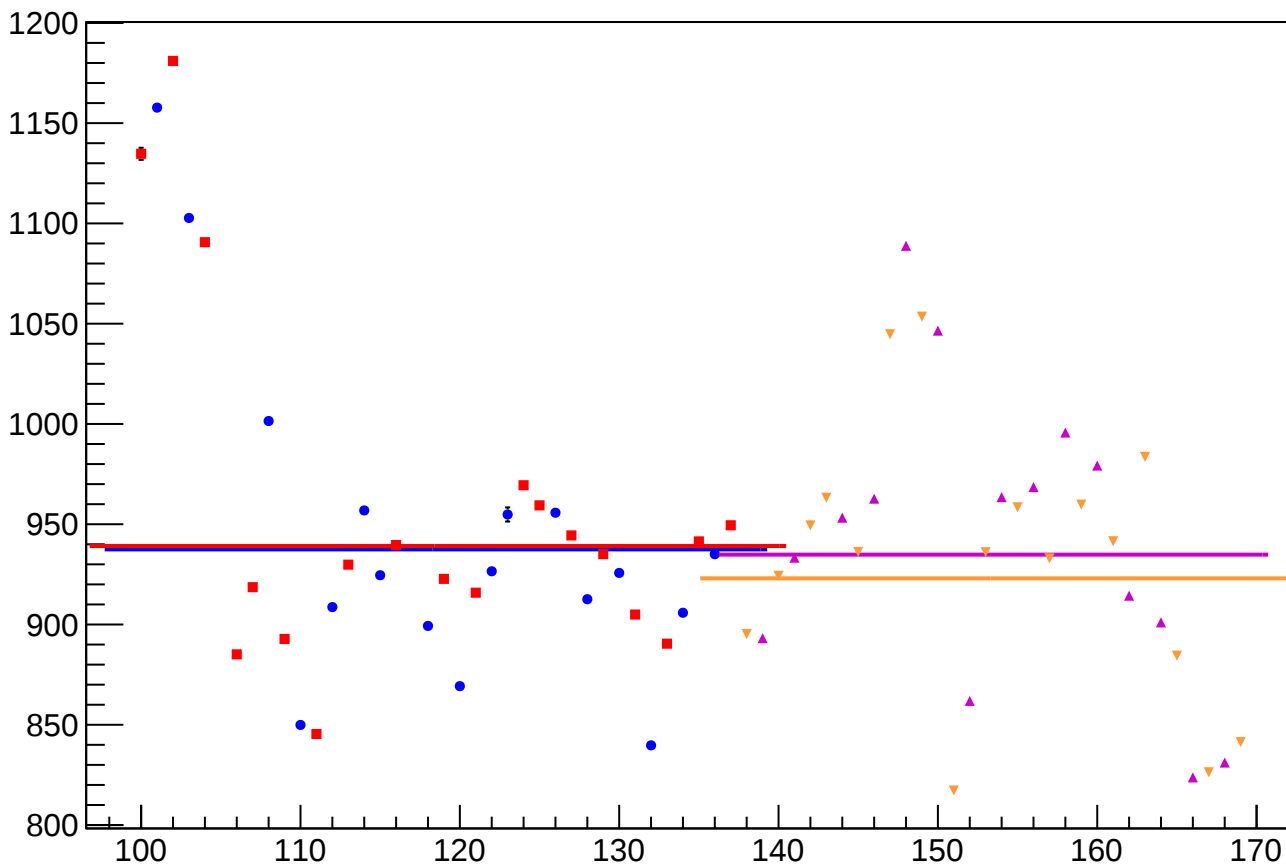
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 15.502 +/- 0.219 χ^2/NDF : 117928.0/31

Out: -3.609 +/- 0.209 χ^2/NDF : 22127.0/35

All: 5.519 +/- 0.151 χ^2/NDF : 144041.8/67

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 923.023 ± 0.184 χ^2/NDF : 127340.7/16

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: 928.613 ± 0.133 χ^2/NDF : 259483.4/31

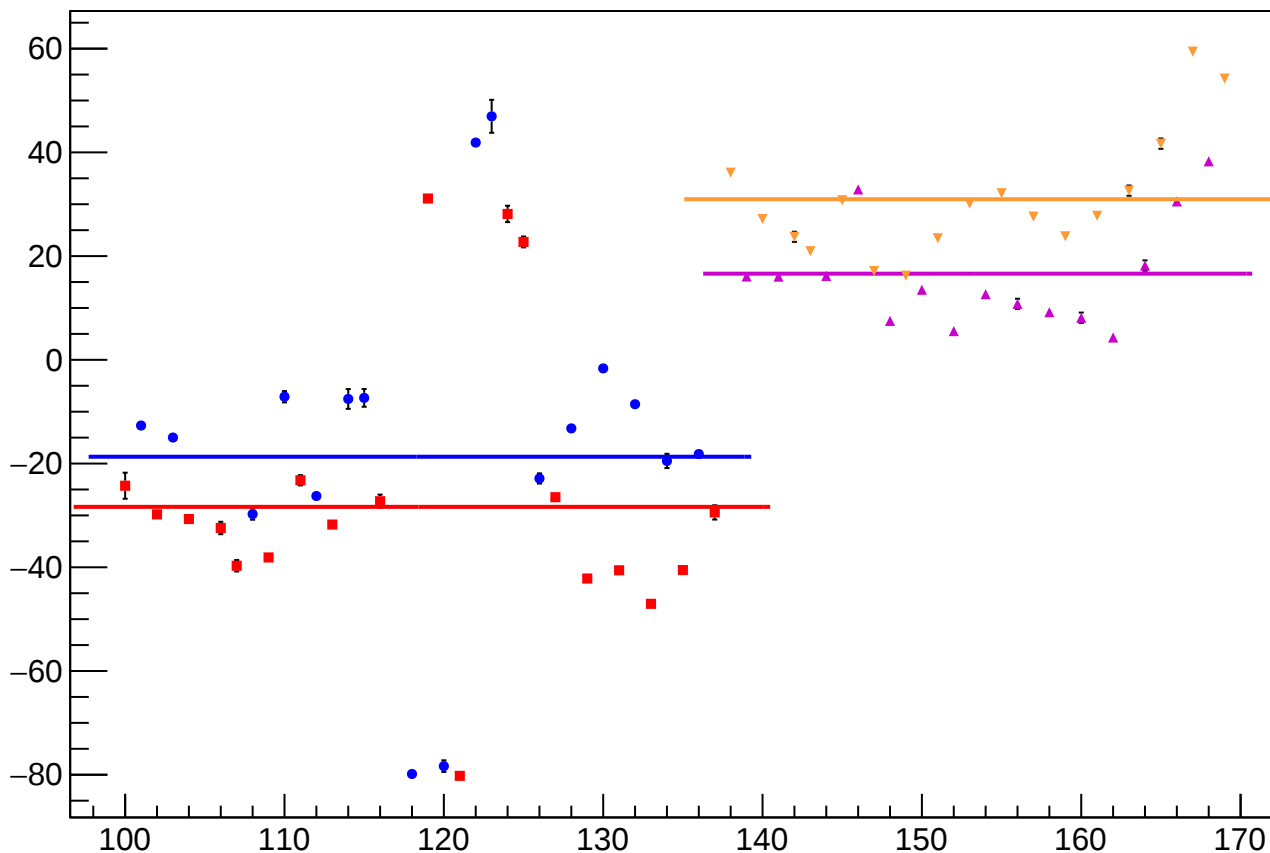
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 935.794 ± 0.155 χ^2/NDF : 228560.6/31

Out: 928.704 ± 0.148 χ^2/NDF : 220303.8/35

All: 932.090 ± 0.107 χ^2/NDF : 449962.0/67

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 χ^2/NDF : 13006.2/16

Left Out: 30.968 ± 0.202 χ^2/NDF : 3516.6/16

Right Out: -28.347 ± 0.235 χ^2/NDF : 12508.1/18

Left In: 16.611 ± 0.214 χ^2/NDF : 2240.9/14

Left: 24.192 ± 0.147 χ^2/NDF : 8138.8/31

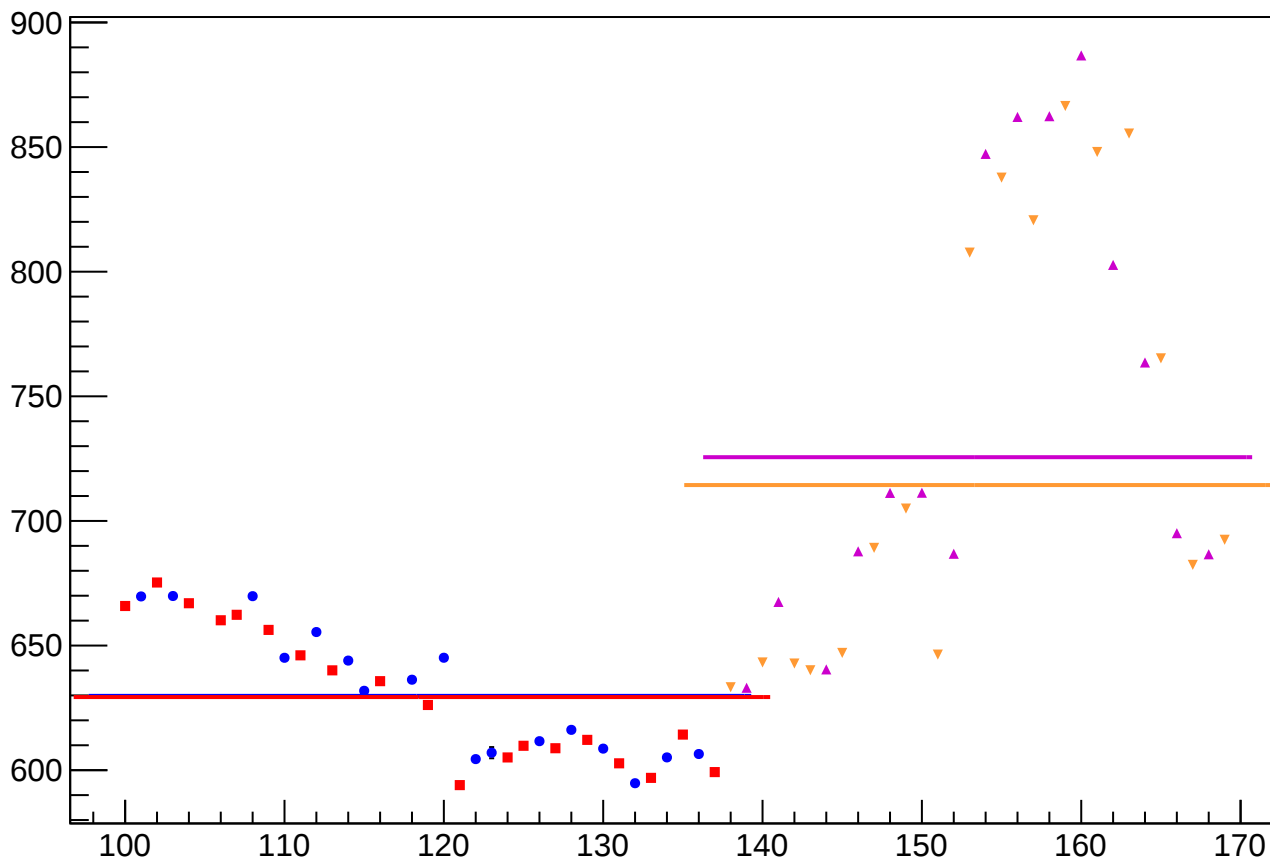
Right: -23.660 ± 0.169 χ^2/NDF : 26331.1/35

In: 1.188 ± 0.160 χ^2/NDF : 27157.3/31

Out: 5.802 ± 0.153 χ^2/NDF : 52560.4/35

All: 3.599 ± 0.111 χ^2/NDF : 80150.0/67

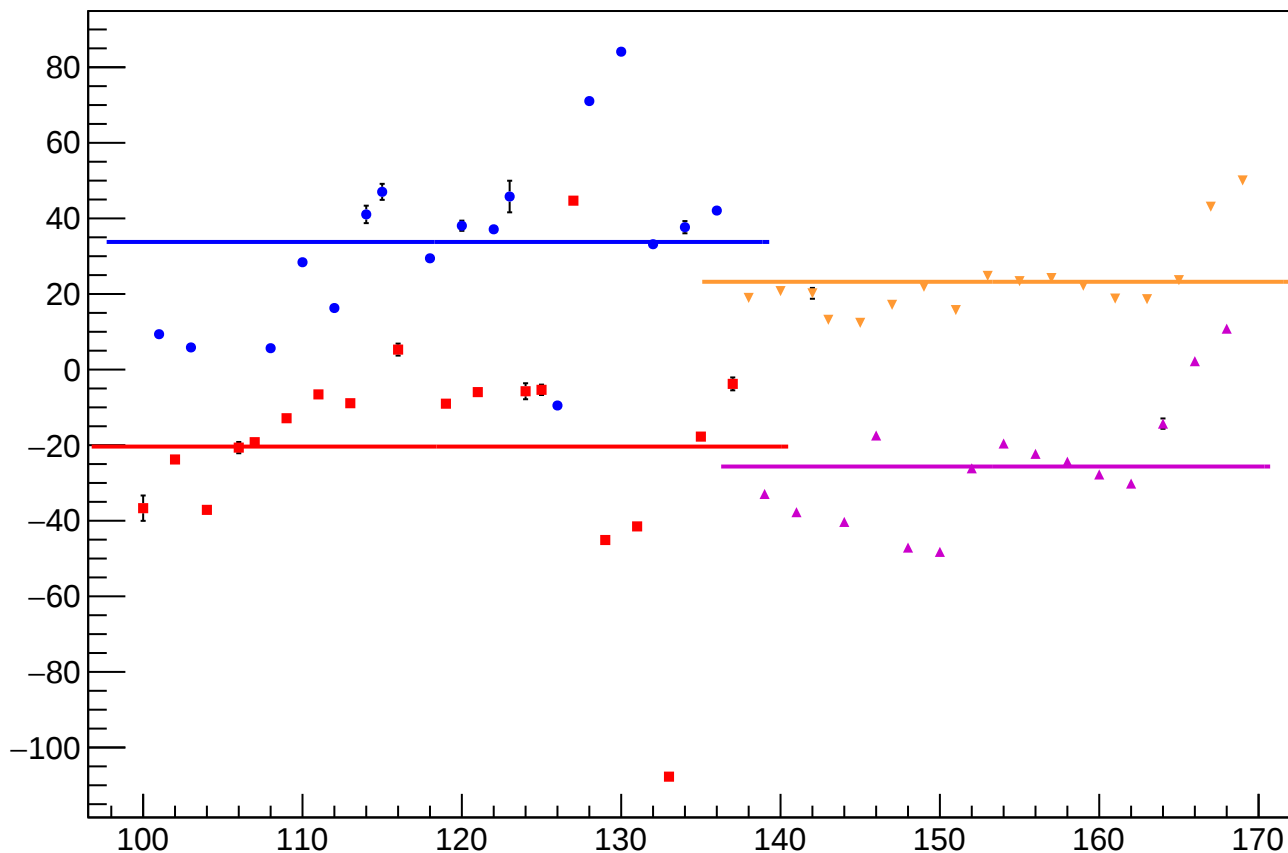
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16
 Left Out: 714.395+/-0.143 χ^2/NDF :331127.7/16
 Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18
 Left In: 725.577+/-0.151 χ^2/NDF :275595.3/14

Left: 719.673+/-0.104 χ^2/NDF : 609611.5/31
 Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35
 In: 683.729+/-0.113 χ^2/NDF :474253.7/31
 Out: 678.308+/-0.108 χ^2/NDF :506919.3/35
 All: 680.897+/-0.078 χ^2/NDF : 982366.1/67

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 23.232+/-0.288 χ^2/NDF :1200.8/16

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: -0.077+/-0.208 χ^2/NDF : 17830.7/31

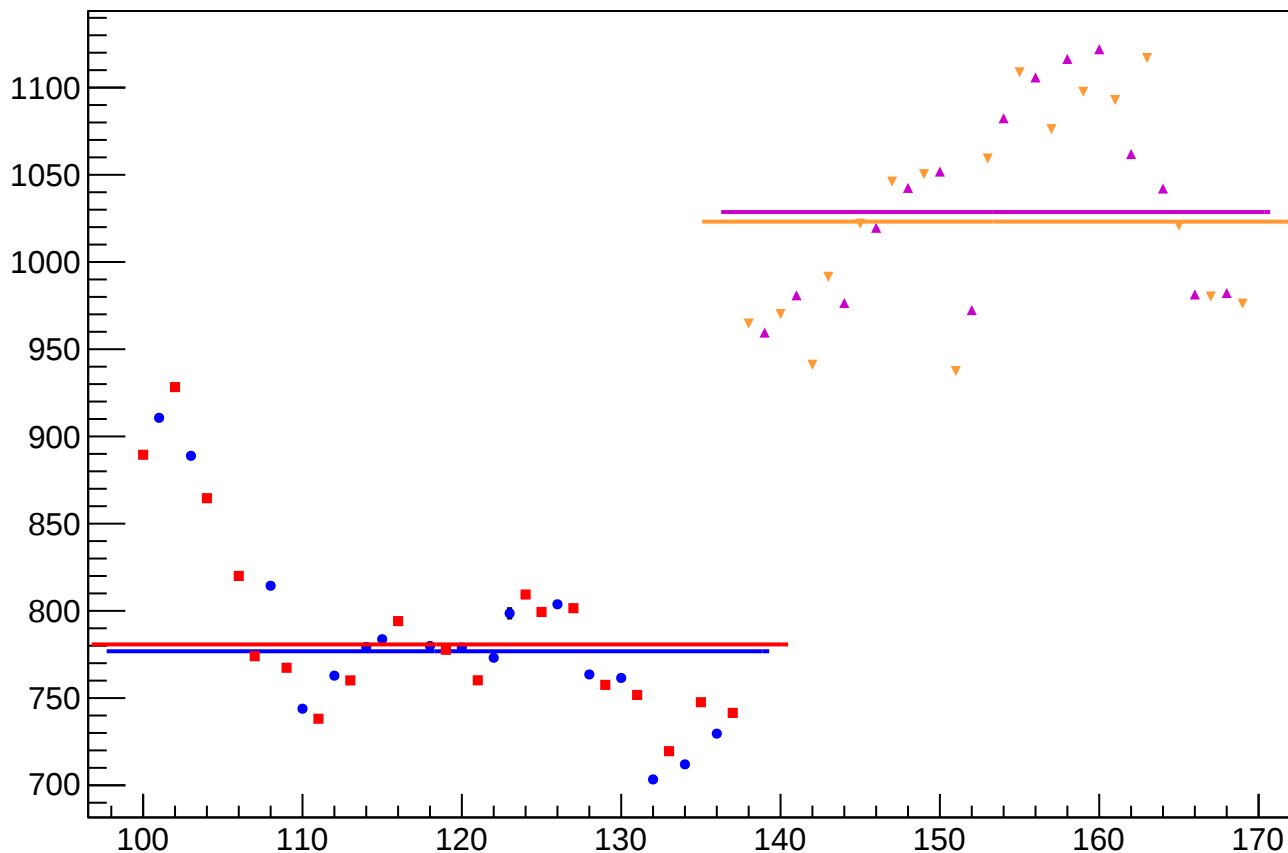
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 4.216+/-0.213 χ^2/NDF :28890.7/31

Out: 1.784+/-0.205 χ^2/NDF :23780.6/35

All: 2.956+/-0.148 χ^2/NDF : 52739.1/67

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2/NDF : 67487.1/16

Left Out: 1023.158 $\pm$ 0.204 χ^2/NDF : 79658.5/16

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: 1025.782 $\pm$ 0.147 χ^2/NDF : 143670.1/31

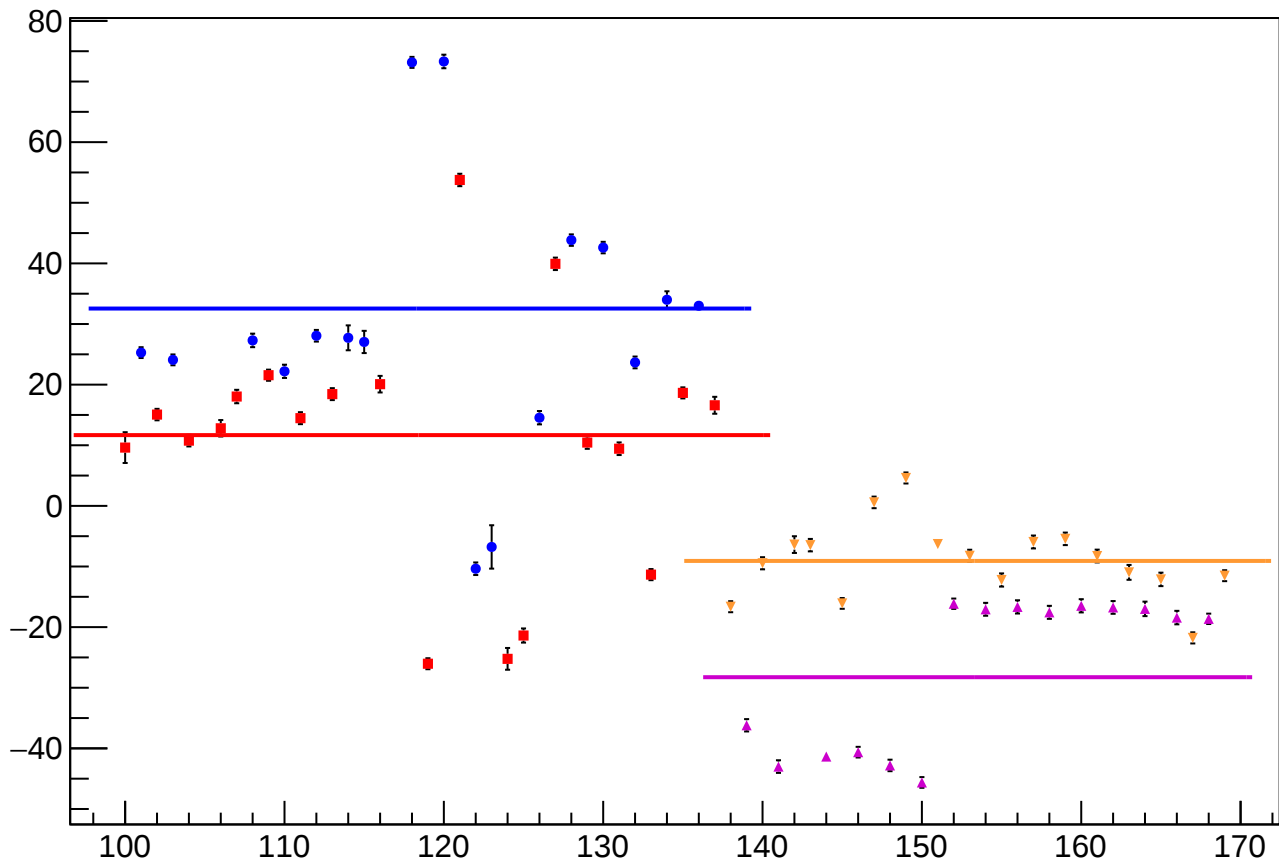
Right: 778.845 $\pm$ 0.148 χ^2/NDF : 125090.9/35

In: 902.088 $\pm$ 0.150 χ^2/NDF : 832549.2/31

Out: 903.931 $\pm$ 0.145 χ^2/NDF : 834964.0/35

All: 903.043 $\pm$ 0.104 χ^2/NDF : 1667591.1/67

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -9.080 ± 0.241 χ^2/NDF : 719.3/16

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: -18.213 ± 0.175 χ^2/NDF : 6111.4/31

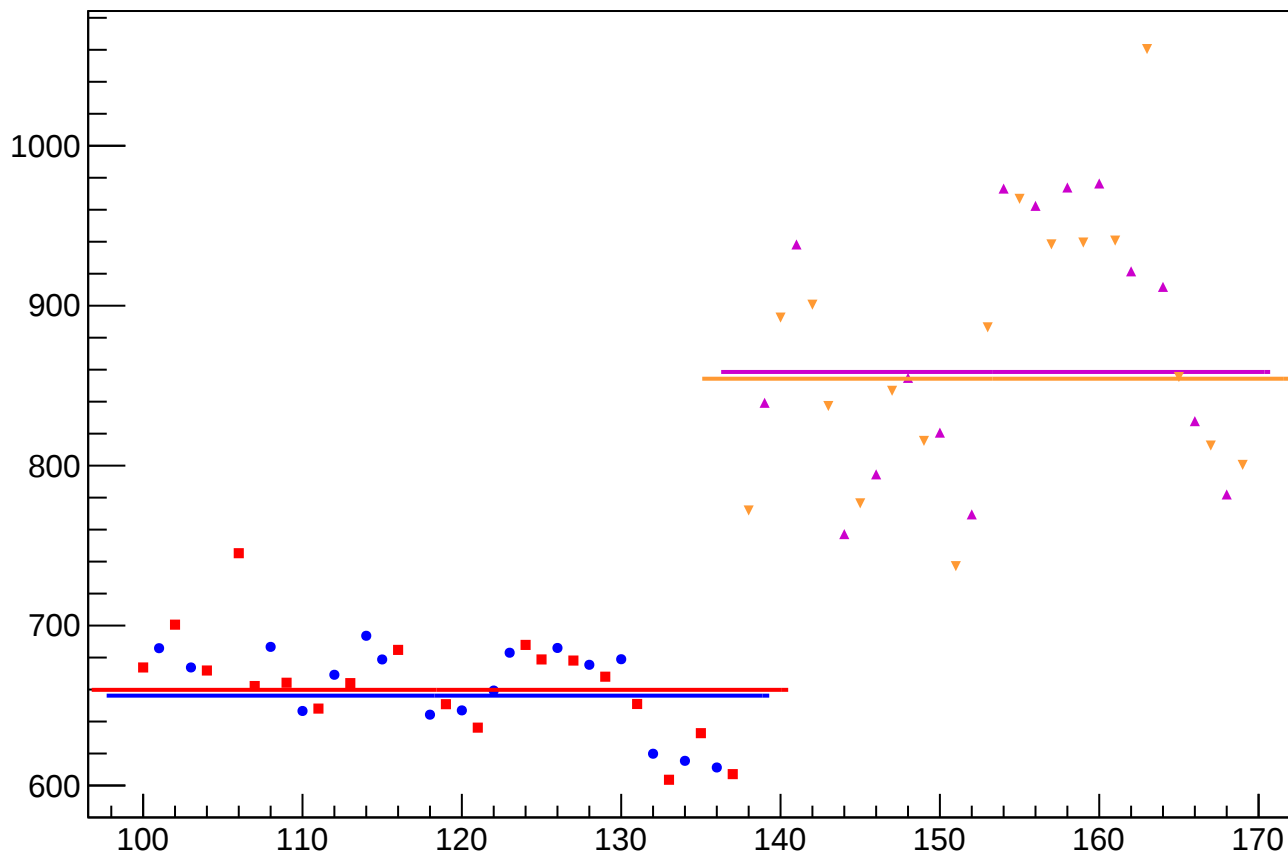
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 2.179 ± 0.179 χ^2/NDF : 37345.1/31

Out: 1.057 ± 0.173 χ^2/NDF : 10688.8/35

All: 1.598 ± 0.124 χ^2/NDF : 48054.3/67

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 ± 0.179 χ^2/NDF : 23569.6/16

Left Out: 854.345 ± 0.171 χ^2/NDF : 212403.0/16

Right Out: 659.813 ± 0.175 χ^2/NDF : 28325.7/18

Left In: 858.572 ± 0.179 χ^2/NDF : 194871.1/14

Left: 856.358 ± 0.124 χ^2/NDF : 407566.2/31

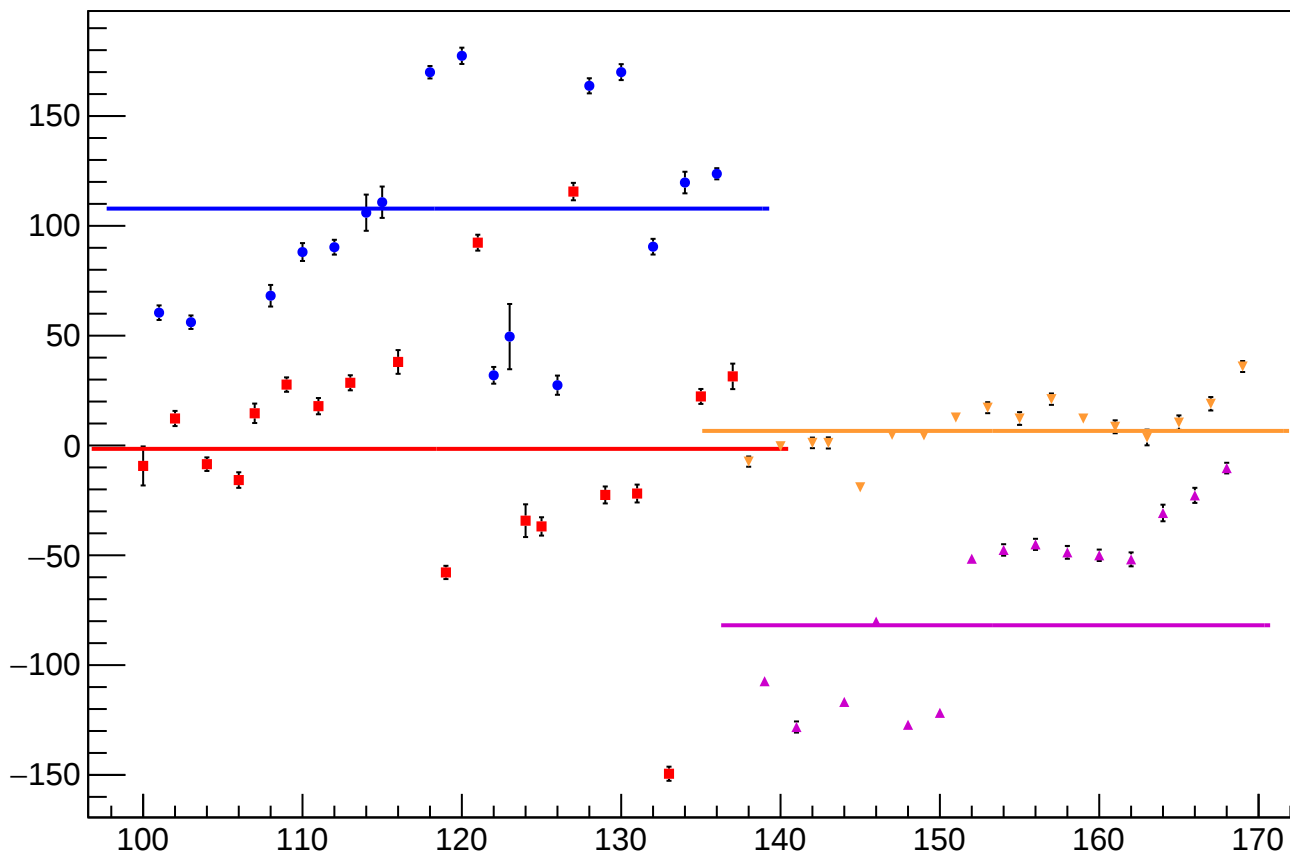
Right: 658.039 ± 0.125 χ^2/NDF : 52106.5/35

In: 757.266 ± 0.127 χ^2/NDF : 858378.4/31

Out: 759.331 ± 0.122 χ^2/NDF : 875416.9/35

All: 758.335 ± 0.088 χ^2/NDF : 1733933.3/67

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 6.631 ± 0.577 $\chi^2/\text{NDF}: 442.8/16$

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: -36.125 ± 0.415 $\chi^2/\text{NDF}: 16050.9/31$

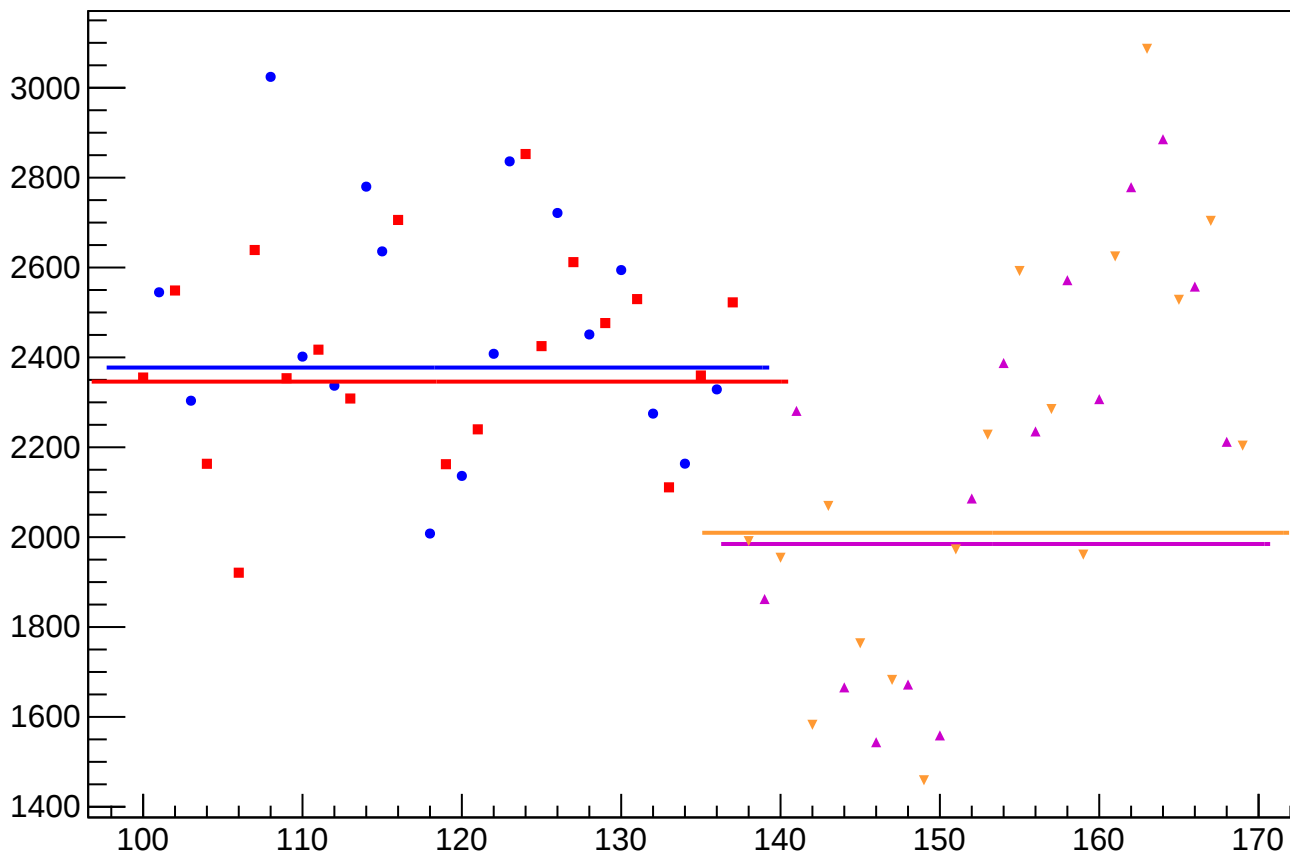
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -25.812 ± 0.501 $\chi^2/\text{NDF}: 36911.4/31$

Out: 4.187 ± 0.483 $\chi^2/\text{NDF}: 5026.6/35$

All: -10.269 ± 0.348 $\chi^2/\text{NDF}: 43796.5/67$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 $\pm$ 0.652 χ^2 /NDF: 119648.6/16

Left Out: 2009.751 $\pm$ 0.408 χ^2 /NDF: 933401.2/16

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: 1997.694 $\pm$ 0.293 χ^2 /NDF: 1840755.6/31

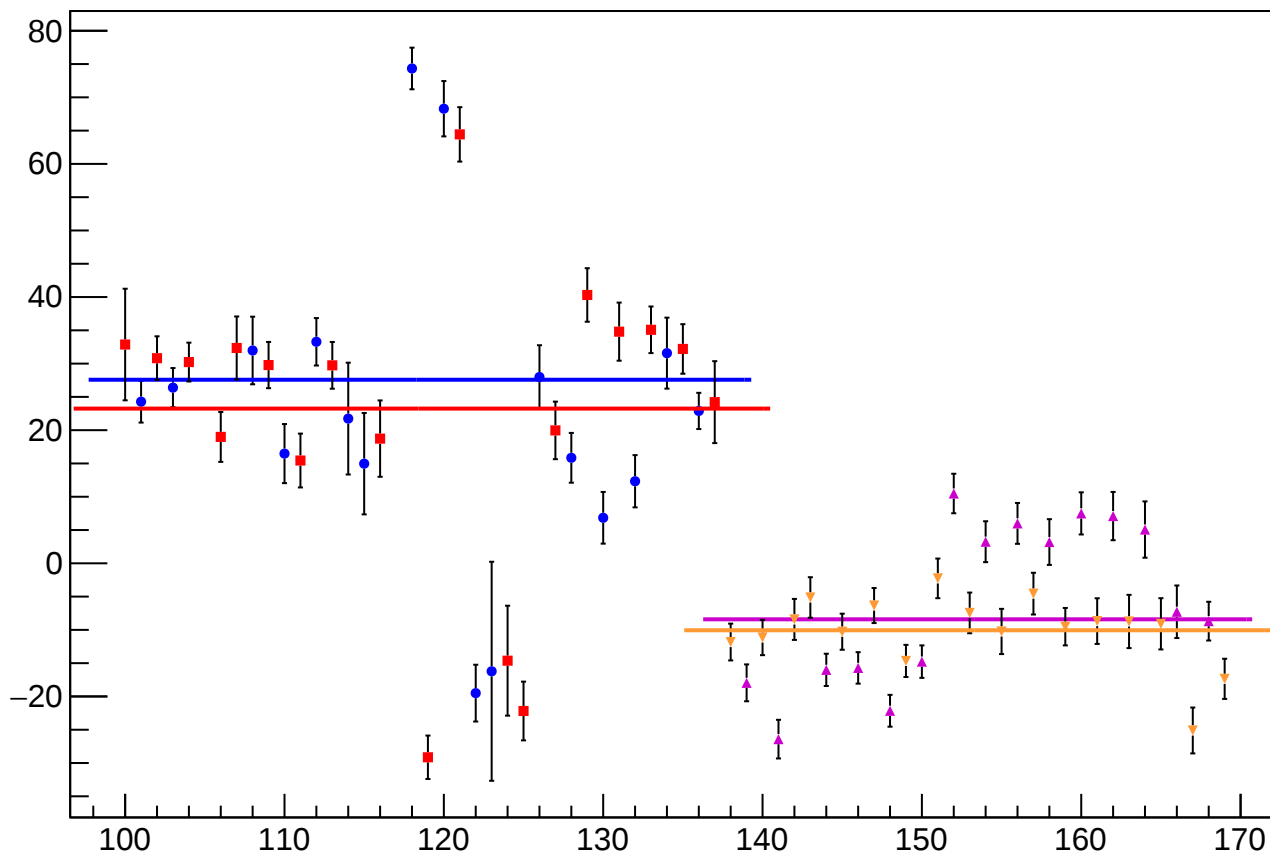
Right: 2361.109 $\pm$ 0.451 χ^2 /NDF: 229108.5/35

In: 2100.796 $\pm$ 0.354 χ^2 /NDF: 1280983.6/31

Out: 2110.348 $\pm$ 0.342 χ^2 /NDF: 1244948.1/35

All: 2105.745 $\pm$ 0.246 χ^2 /NDF: 2526308.6/67

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 $\pm$ 0.975 χ^2 /NDF: 519.6/16

Left Out: -10.058 $\pm$ 0.729 χ^2 /NDF: 45.1/16

Right Out: 23.243 $\pm$ 0.927 χ^2 /NDF: 557.9/18

Left In: -8.413 $\pm$ 0.753 χ^2 /NDF: 251.6/14

Left: -9.262 $\pm$ 0.524 χ^2 /NDF: 299.2/31

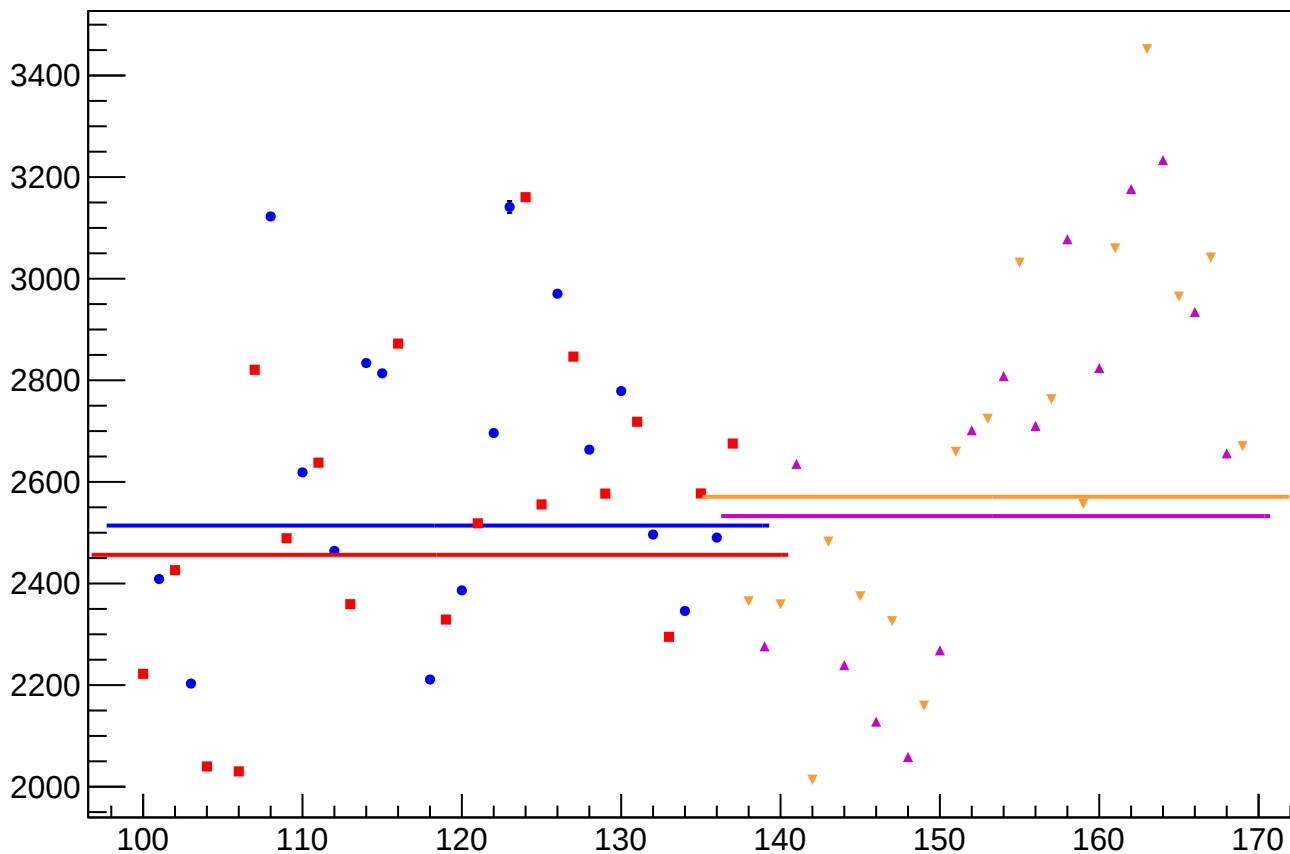
Right: 25.301 $\pm$ 0.672 χ^2 /NDF: 1087.8/35

In: 5.028 $\pm$ 0.596 χ^2 /NDF: 1625.2/31

Out: 2.666 $\pm$ 0.573 χ^2 /NDF: 1400.4/35

All: 3.801 $\pm$ 0.413 χ^2 /NDF: 3033.8/67

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088+/-0.689 χ^2/NDF : 120961.3/16

Left Out: 2570.800+/-0.515 χ^2/NDF : 426165.2/16

Right Out: 2456.460+/-0.655 χ^2/NDF : 149732.7/18

Left In: 2532.744+/-0.532 χ^2/NDF : 448408.4/14

Left: 2552.380+/-0.370 χ^2/NDF : 877212.1/31

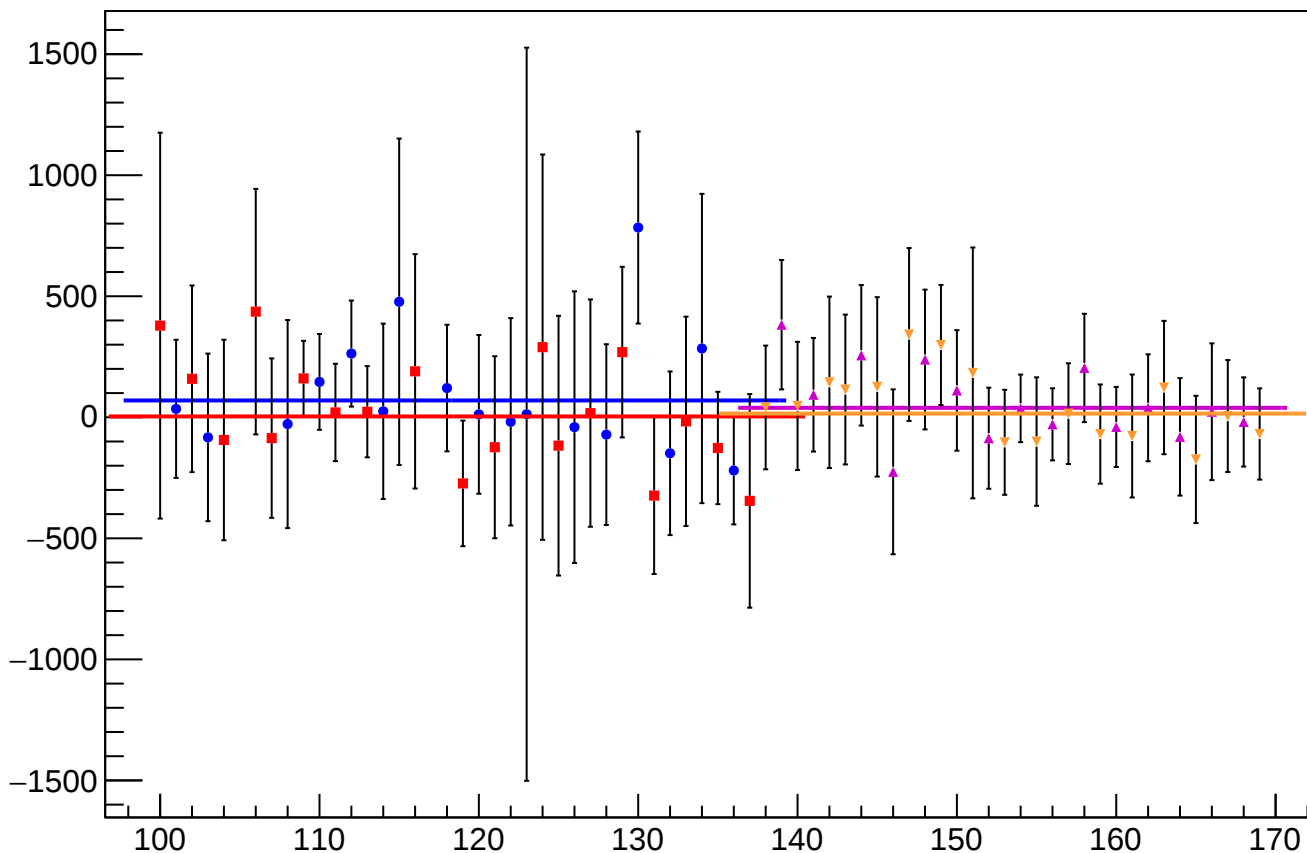
Right: 2483.827+/-0.475 χ^2/NDF : 274364.7/35

In: 2525.777+/-0.421 χ^2/NDF : 569828.7/31

Out: 2527.113+/-0.405 χ^2/NDF : 594699.6/35

All: 2526.470+/-0.292 χ^2/NDF : 1164533.5/67

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: 15.298 $\pm$ 62.559 χ^2 /NDF:4.3/16

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: 28.844 $\pm$ 41.113 χ^2 /NDF: 9.5/31

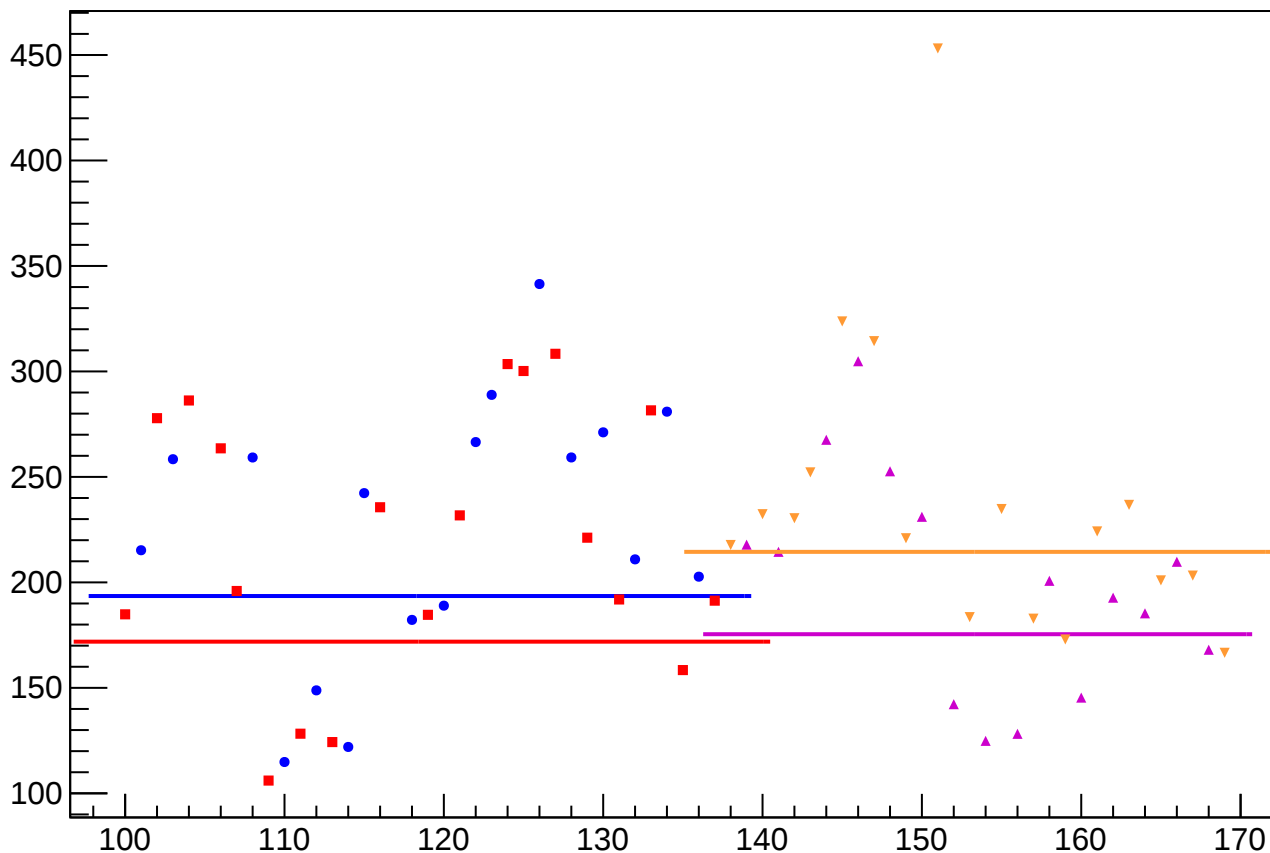
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 48.966 $\pm$ 44.891 χ^2 /NDF:12.5/31

Out: 10.085 $\pm$ 46.639 χ^2 /NDF:10.7/35

All: 30.268 $\pm$ 32.343 χ^2 /NDF: 23.6/67

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: 214.470+/-0.044 χ^2/NDF : 1135091.9/16

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: 192.293+/-0.029 χ^2/NDF : 3070549.1/31

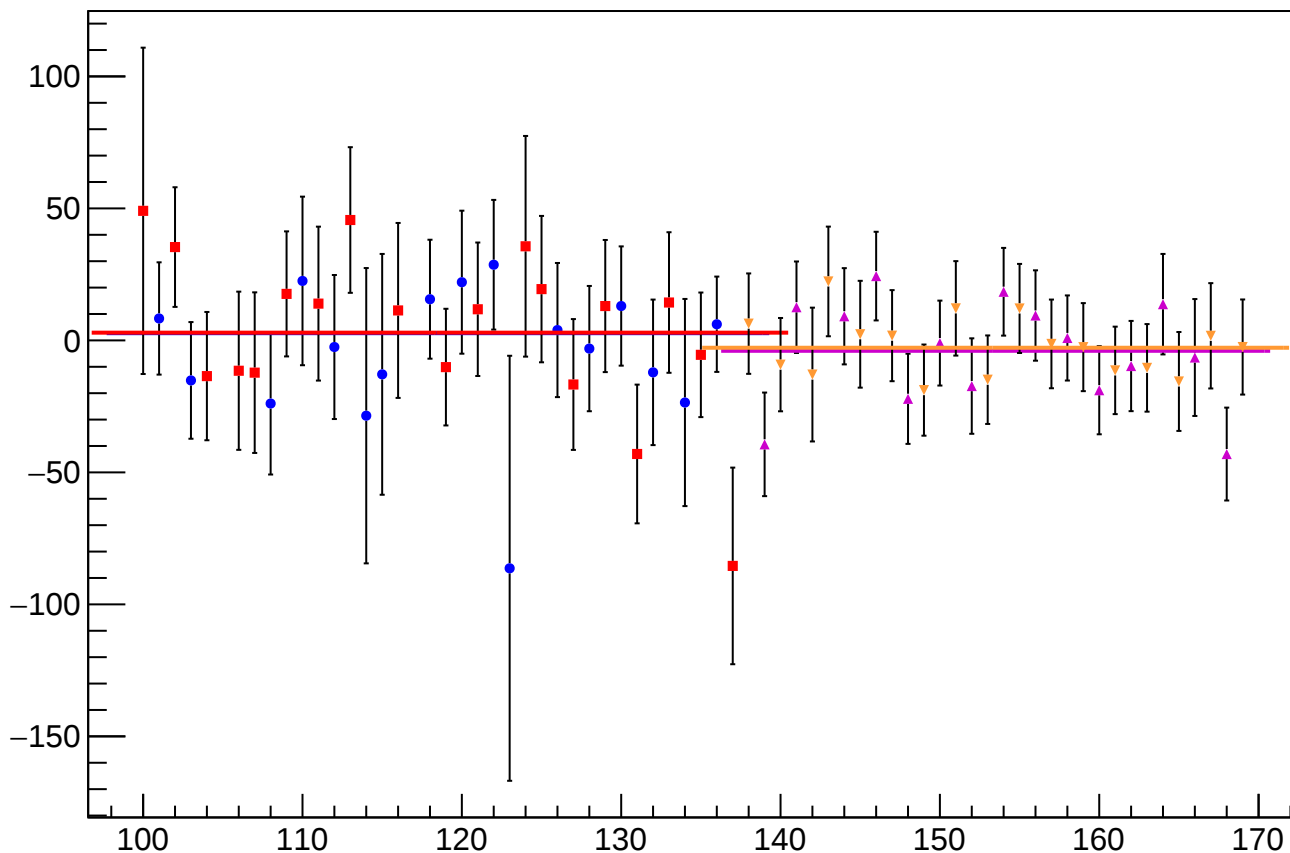
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 181.274+/-0.032 χ^2/NDF : 2574543.4/31

Out: 195.561+/-0.033 χ^2/NDF : 3123318.2/35

All: 188.145+/-0.023 χ^2/NDF : 5795285.4/67

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733+/-6.424 χ^2/NDF : 6.8/16

Left Out: -2.787+/-4.383 χ^2/NDF : 6.0/16

Right Out: 2.928+/-6.279 χ^2/NDF : 17.8/18

Left In: -3.943+/-4.528 χ^2/NDF : 18.5/14

Left: -3.346+/-3.149 χ^2/NDF : 24.5/31

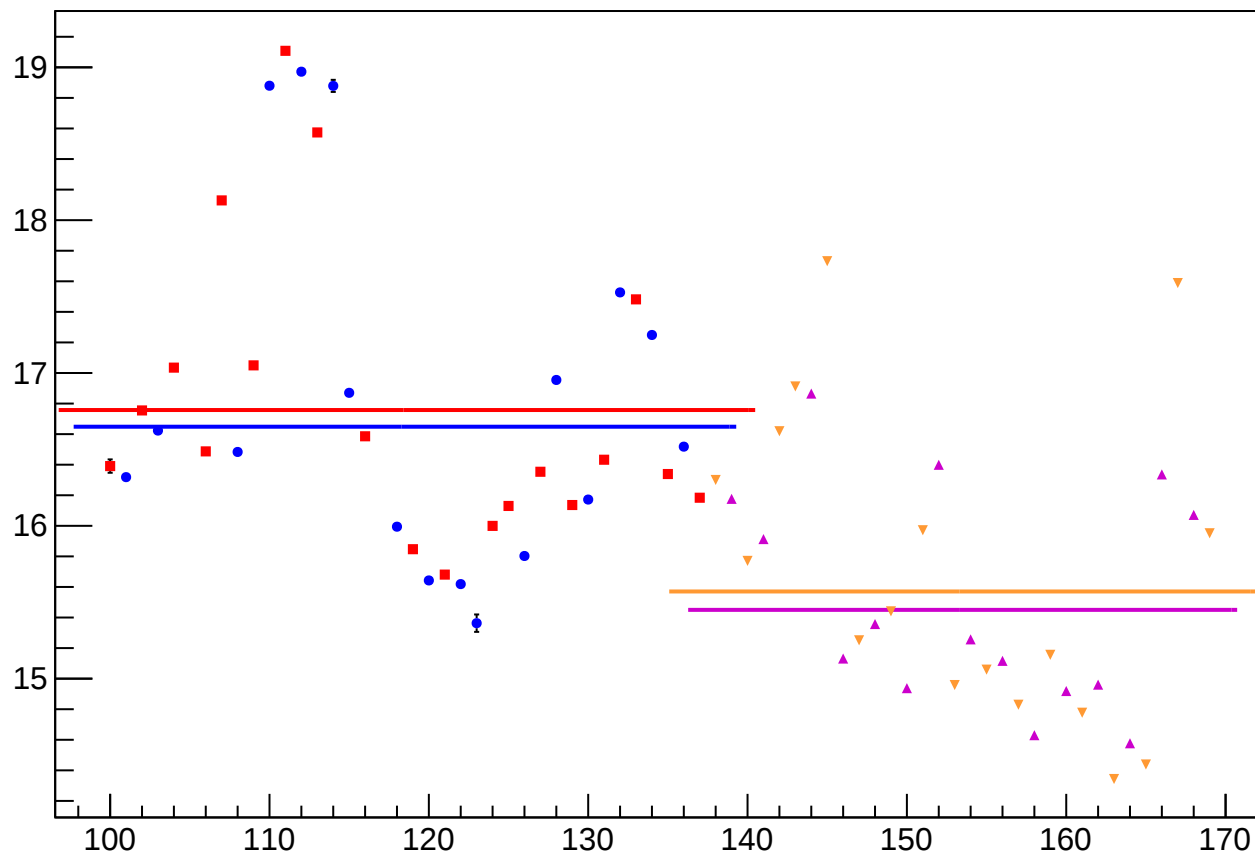
Right: 2.833+/-4.490 χ^2/NDF : 24.5/35

In: -1.726+/-3.701 χ^2/NDF : 26.0/31

Out: -0.914+/-3.594 χ^2/NDF : 24.3/35

All: -1.308+/-2.578 χ^2/NDF : 50.3/67

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: 15.570 $\pm$ 0.003 χ^2 /NDF: 93412.2/16

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: 15.512 $\pm$ 0.002 χ^2 /NDF: 138461.5/31

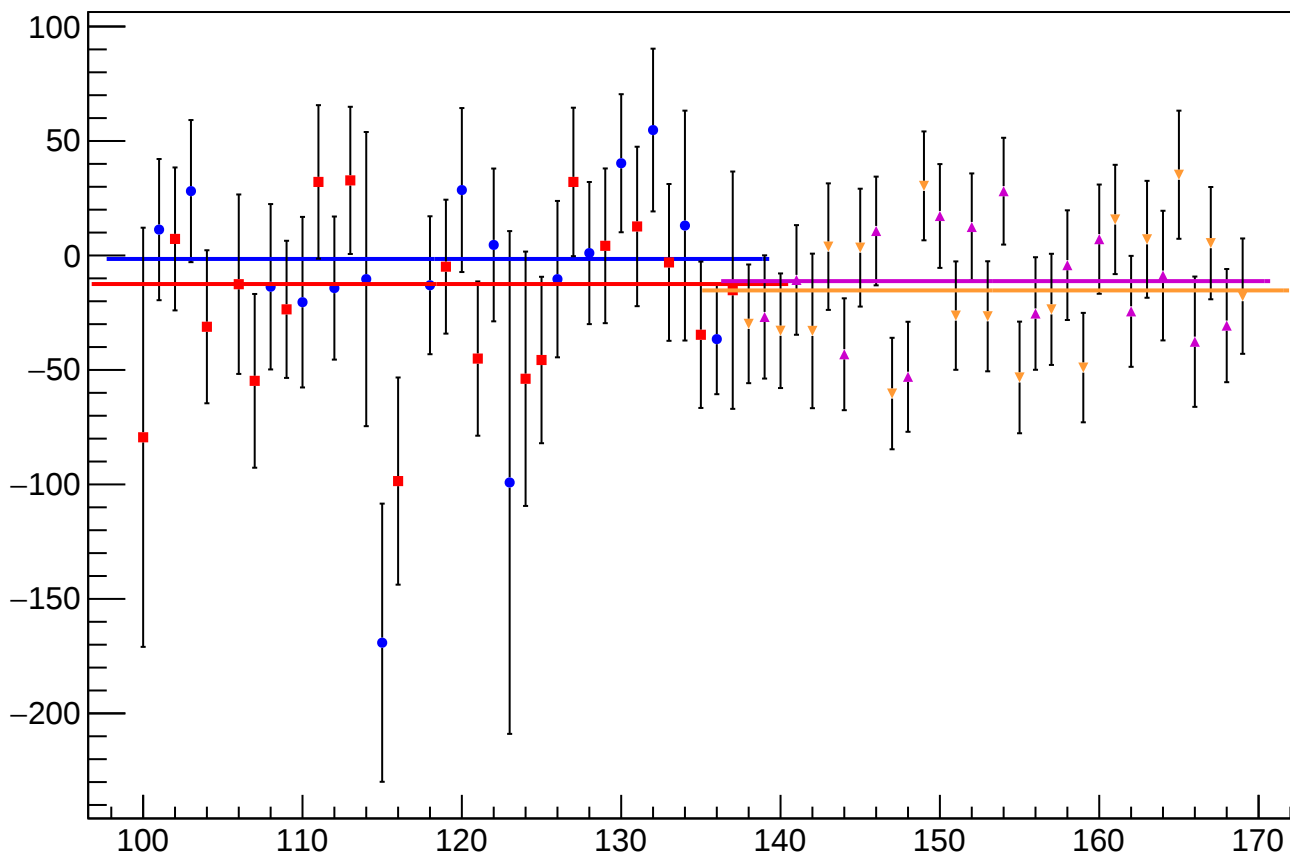
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.848 $\pm$ 0.003 χ^2 /NDF: 133381.9/31

Out: 15.959 $\pm$ 0.003 χ^2 /NDF: 181442.2/35

All: 15.905 $\pm$ 0.002 χ^2 /NDF: 315759.3/67

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: -15.265+/-6.121 χ^2/NDF : 20.6/16

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: -13.305+/-4.403 χ^2/NDF : 35.0/31

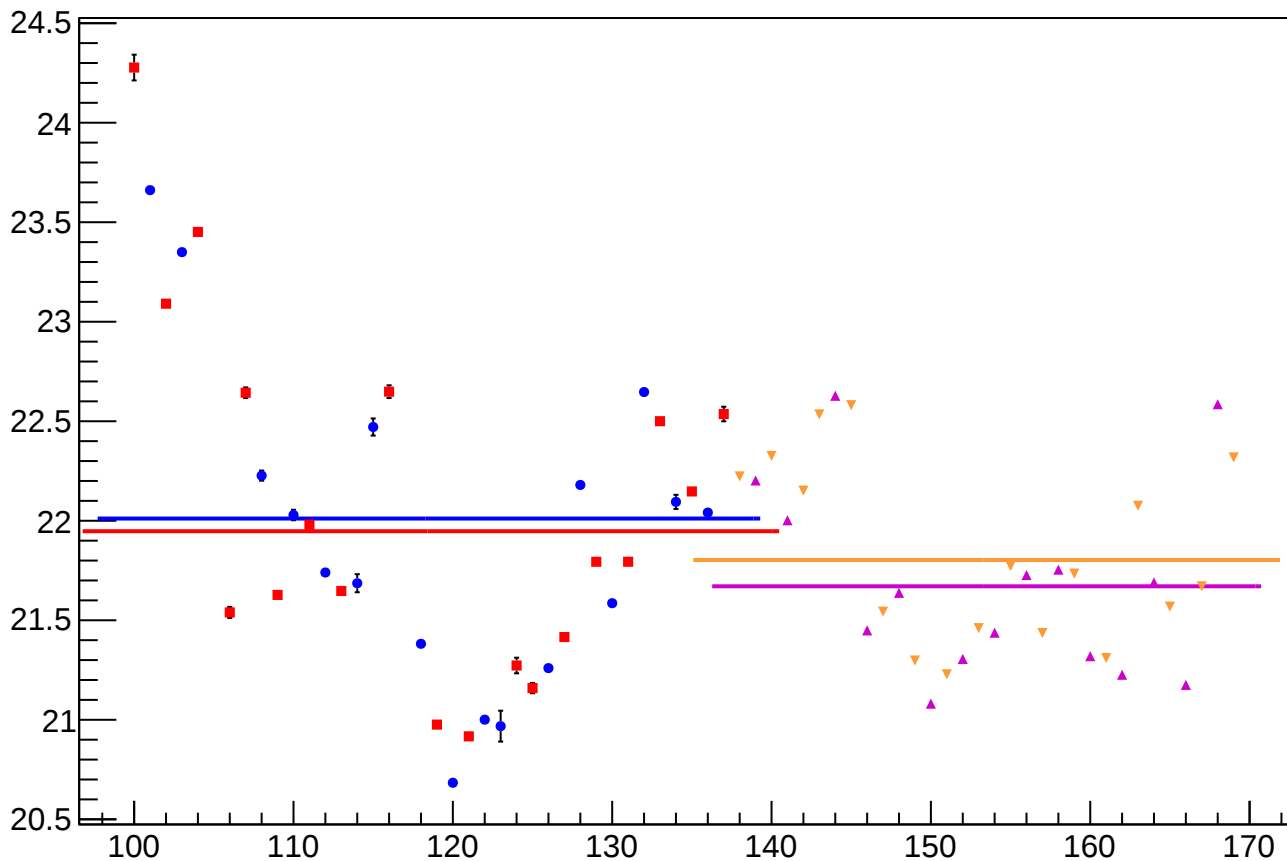
Right: -7.179+/-5.900 χ^2/NDF : 34.1/35

In: -7.737+/-5.078 χ^2/NDF : 32.6/31

Out: -14.268+/-4.907 χ^2/NDF : 36.3/35

All: -11.114+/-3.529 χ^2/NDF : 69.8/67

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011 $\pm$ 0.006 χ^2 /NDF: 17546.9/16

Left Out: 21.803 $\pm$ 0.004 χ^2 /NDF:10143.8/16

Right Out: 21.947 $\pm$ 0.006 χ^2 /NDF: 16592.7/18

Left In: 21.671 $\pm$ 0.004 χ^2 /NDF:10940.0/14

Left: 21.739 $\pm$ 0.003 χ^2 /NDF: 21533.7/31

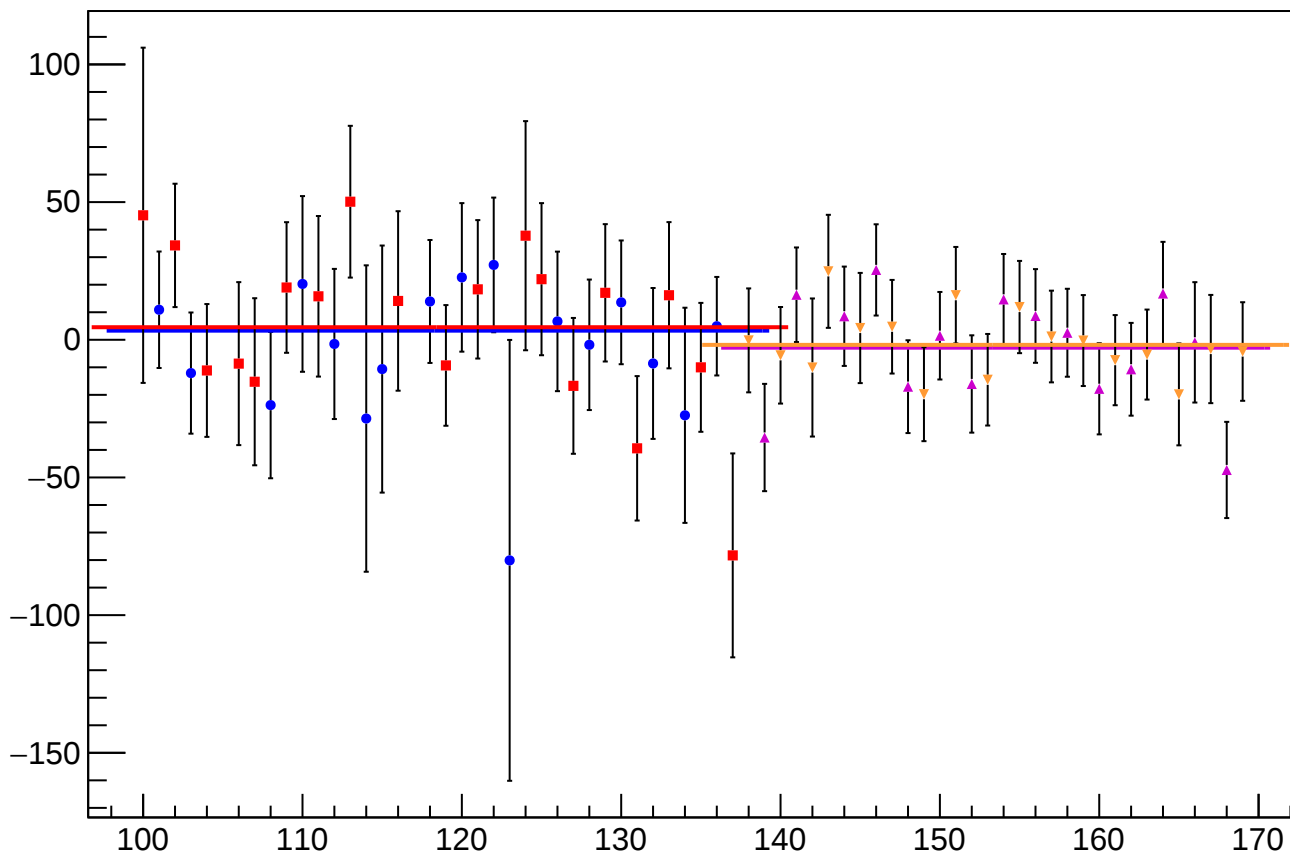
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.793 $\pm$ 0.004 χ^2 /NDF:30554.0/31

Out: 21.855 $\pm$ 0.003 χ^2 /NDF:27135.3/35

All: 21.825 $\pm$ 0.002 χ^2 /NDF: 57842.8/67

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: -1.850 $\pm$ 4.334 χ^2 /NDF:6.7/16

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: -2.342 $\pm$ 3.115 χ^2 /NDF: 25.7/31

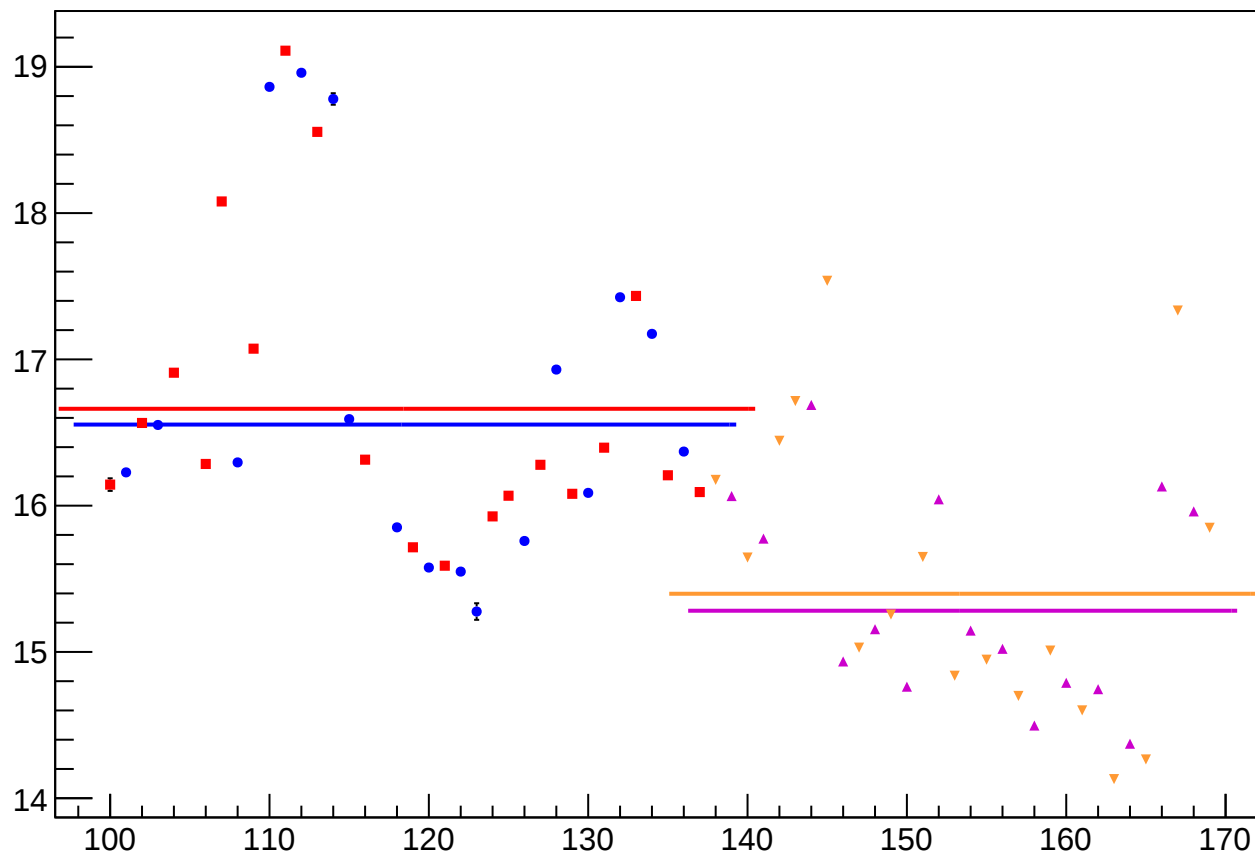
Right: 3.953 $\pm$ 4.465 χ^2 /NDF: 24.0/35

In: -0.830 $\pm$ 3.667 χ^2 /NDF:25.9/31

Out: 0.235 $\pm$ 3.560 χ^2 /NDF:25.1/35

All: -0.282 $\pm$ 2.555 χ^2 /NDF: 51.1/67

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.398 $\pm$ 0.003 χ^2 /NDF: 93151.0/16

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.282 $\pm$ 0.003 χ^2 /NDF: 43856.8/14

Left: 15.342 $\pm$ 0.002 χ^2 /NDF: 137701.0/31

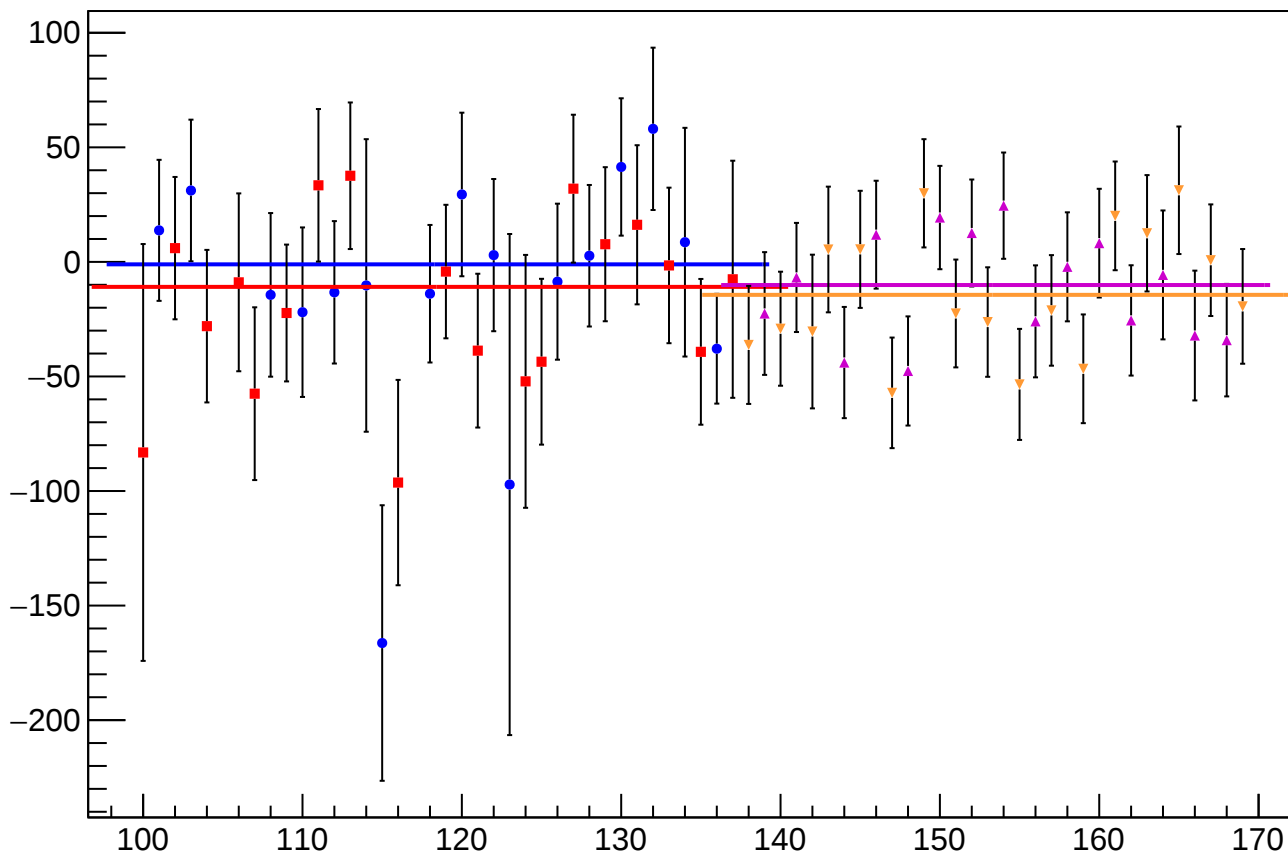
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.701 $\pm$ 0.003 χ^2 /NDF: 141549.5/31

Out: 15.809 $\pm$ 0.003 χ^2 /NDF: 191576.4/35

All: 15.757 $\pm$ 0.002 χ^2 /NDF: 334016.7/67

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: -14.384 ± 6.082 χ^2/NDF : 20.3/16

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: -12.314 ± 4.376 χ^2/NDF : 34.1/31

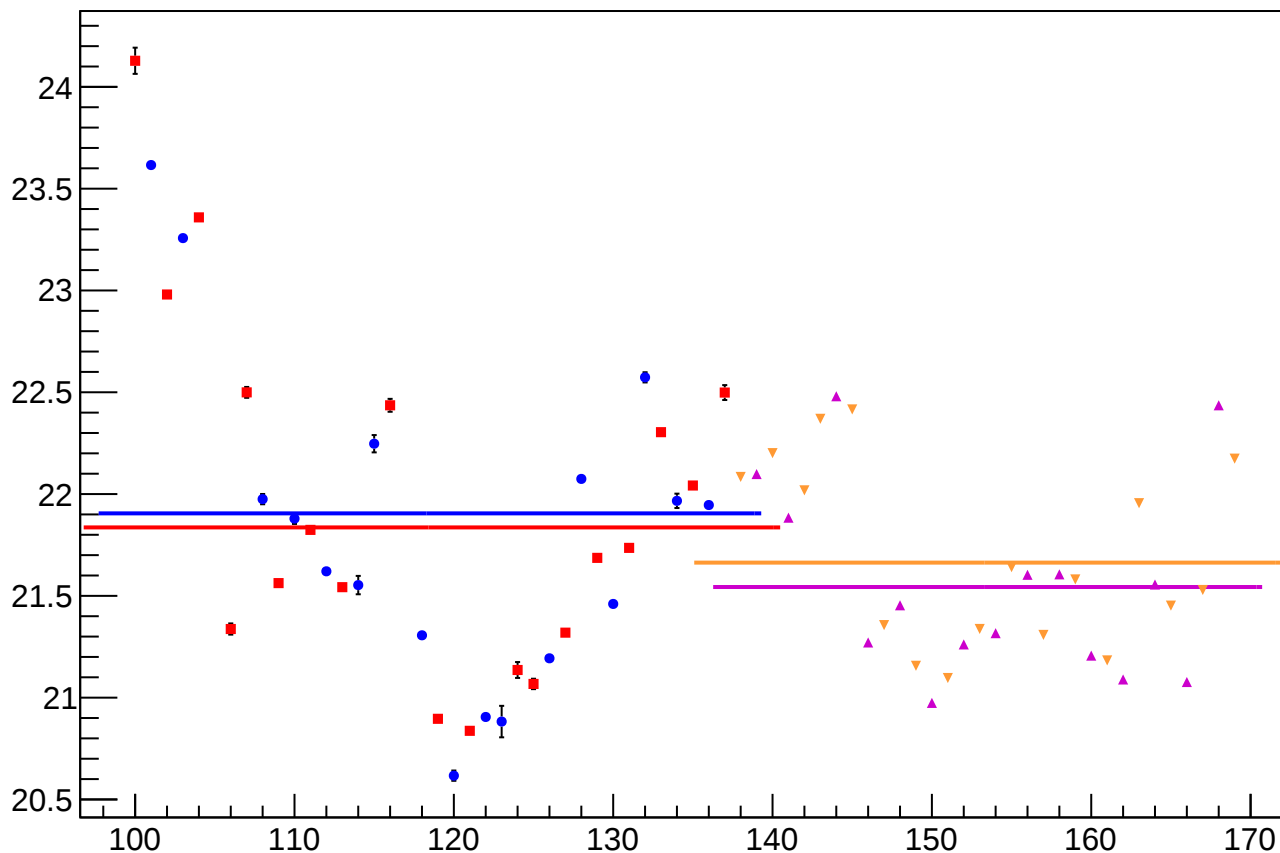
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -6.866 ± 5.050 χ^2/NDF : 32.7/31

Out: -13.141 ± 4.878 χ^2/NDF : 36.7/35

All: -10.112 ± 3.509 χ^2/NDF : 70.2/67

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: 21.663 $\pm$ 0.004 χ^2 /NDF: 10080.0/16

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: 21.605 $\pm$ 0.003 χ^2 /NDF: 21081.3/31

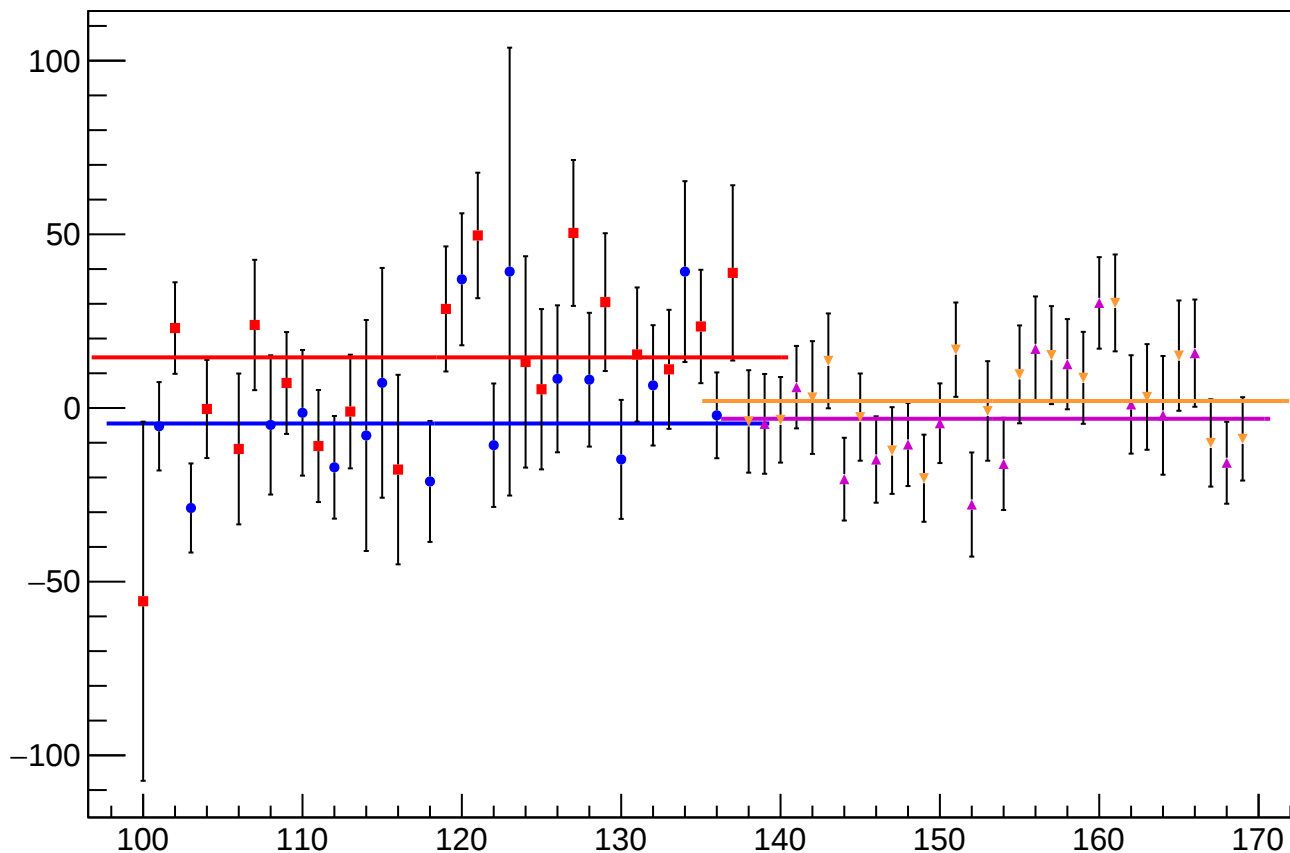
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.673 $\pm$ 0.004 χ^2 /NDF: 30778.4/31

Out: 21.725 $\pm$ 0.003 χ^2 /NDF: 26907.8/35

All: 21.700 $\pm$ 0.002 χ^2 /NDF: 57796.5/67

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 2.015 ± 3.293 χ^2/NDF : 14.8/16

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -3.102 ± 3.409 χ^2/NDF : 20.1/14

Left: -0.454 ± 2.369 χ^2/NDF : 36.1/31

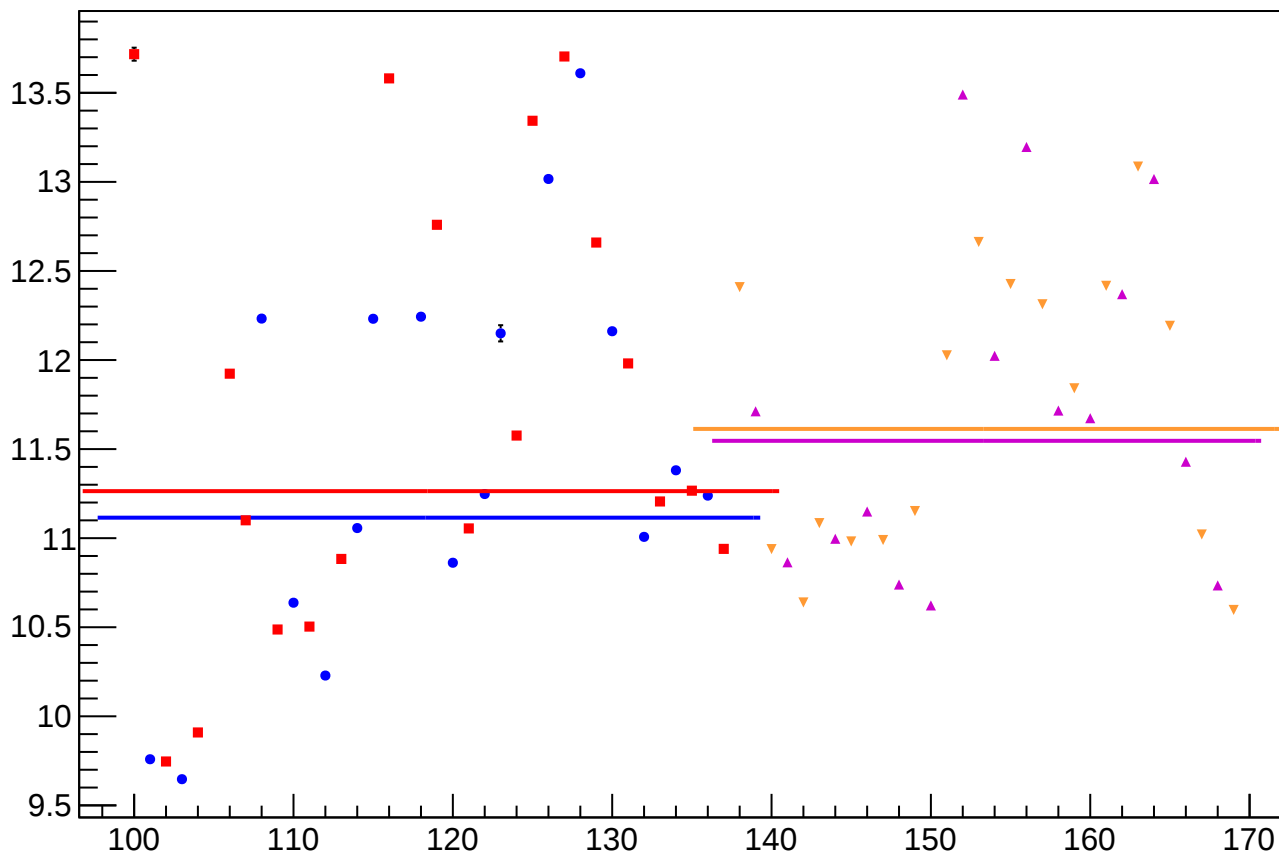
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -3.622 ± 2.678 χ^2/NDF : 35.3/31

Out: 6.709 ± 2.606 χ^2/NDF : 39.8/35

All: 1.685 ± 1.868 χ^2/NDF : 82.8/67

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: 11.613 $\pm$ 0.002 χ^2 /NDF:106375.1/16

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: 11.581 $\pm$ 0.002 χ^2 /NDF: 233744.5/31

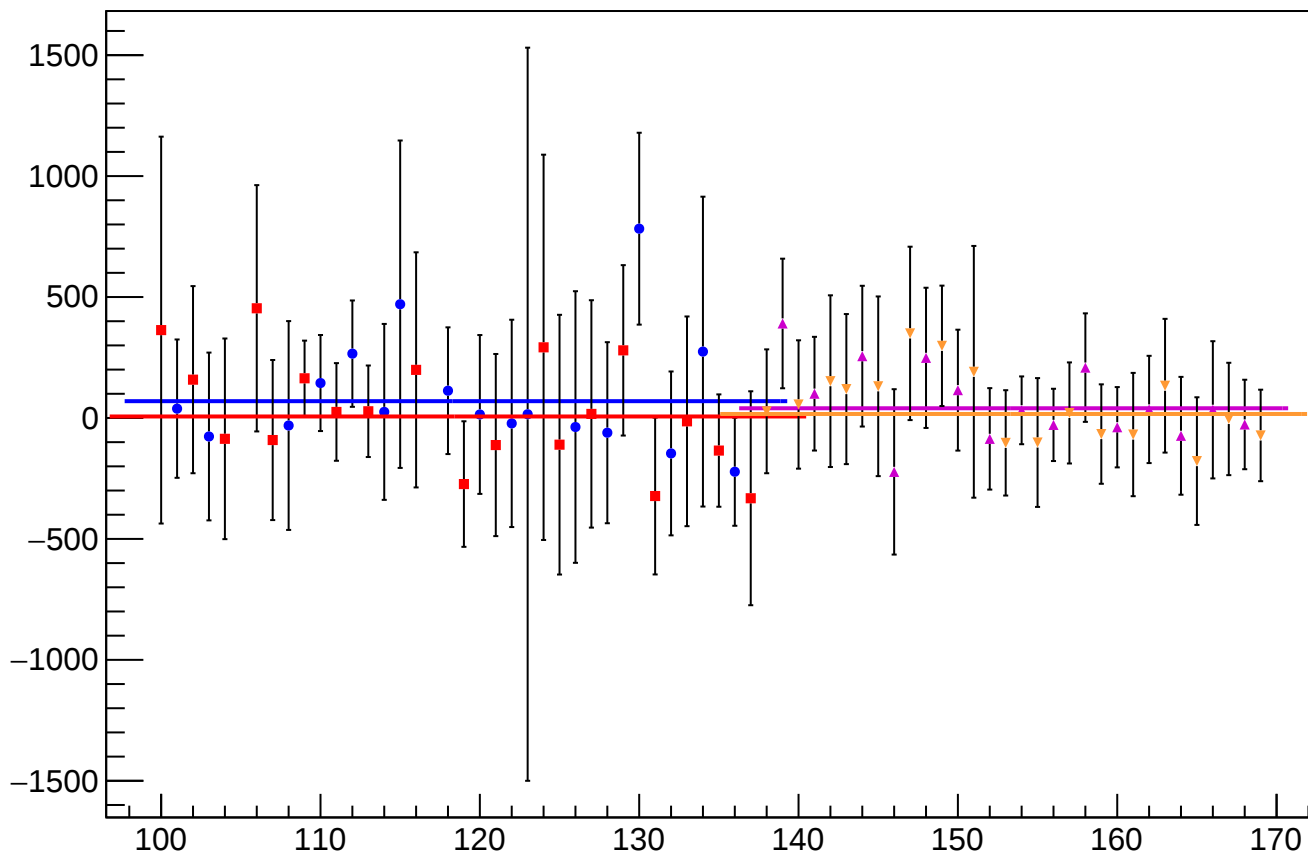
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.381 $\pm$ 0.002 χ^2 /NDF:272289.2/31

Out: 11.483 $\pm$ 0.002 χ^2 /NDF:262267.4/35

All: 11.433 $\pm$ 0.001 χ^2 /NDF: 536032.4/67

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: 16.501+/-62.777 χ^2/NDF : 4.4/16

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: 29.926+/-41.255 χ^2/NDF : 9.7/31

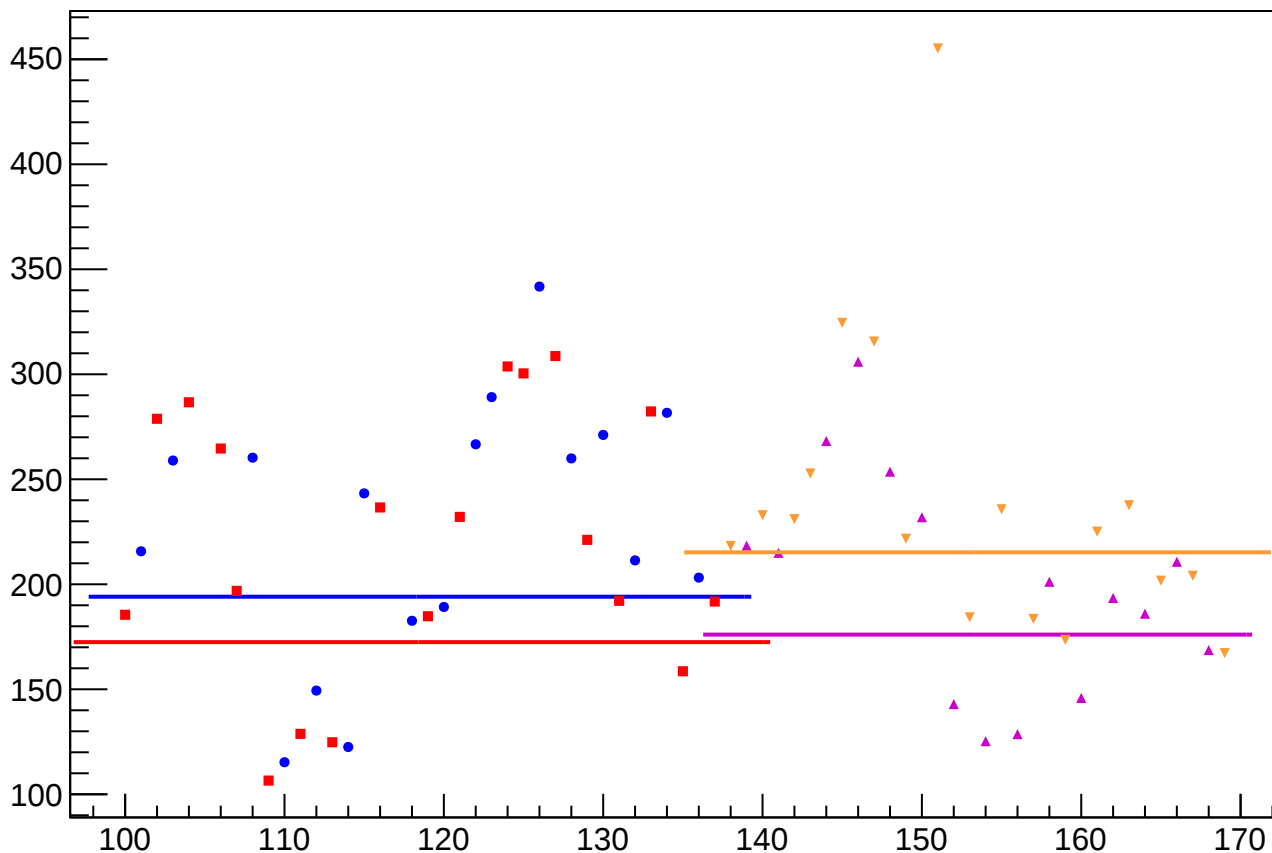
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 49.609+/-45.033 χ^2/NDF : 12.6/31

Out: 11.920+/-46.790 χ^2/NDF : 10.9/35

All: 31.485+/-32.447 χ^2/NDF : 23.8/67

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: 215.222+/-0.044 χ^2/NDF : 1134138.0/16

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: 192.963+/-0.029 χ^2/NDF : 3067853.0/31

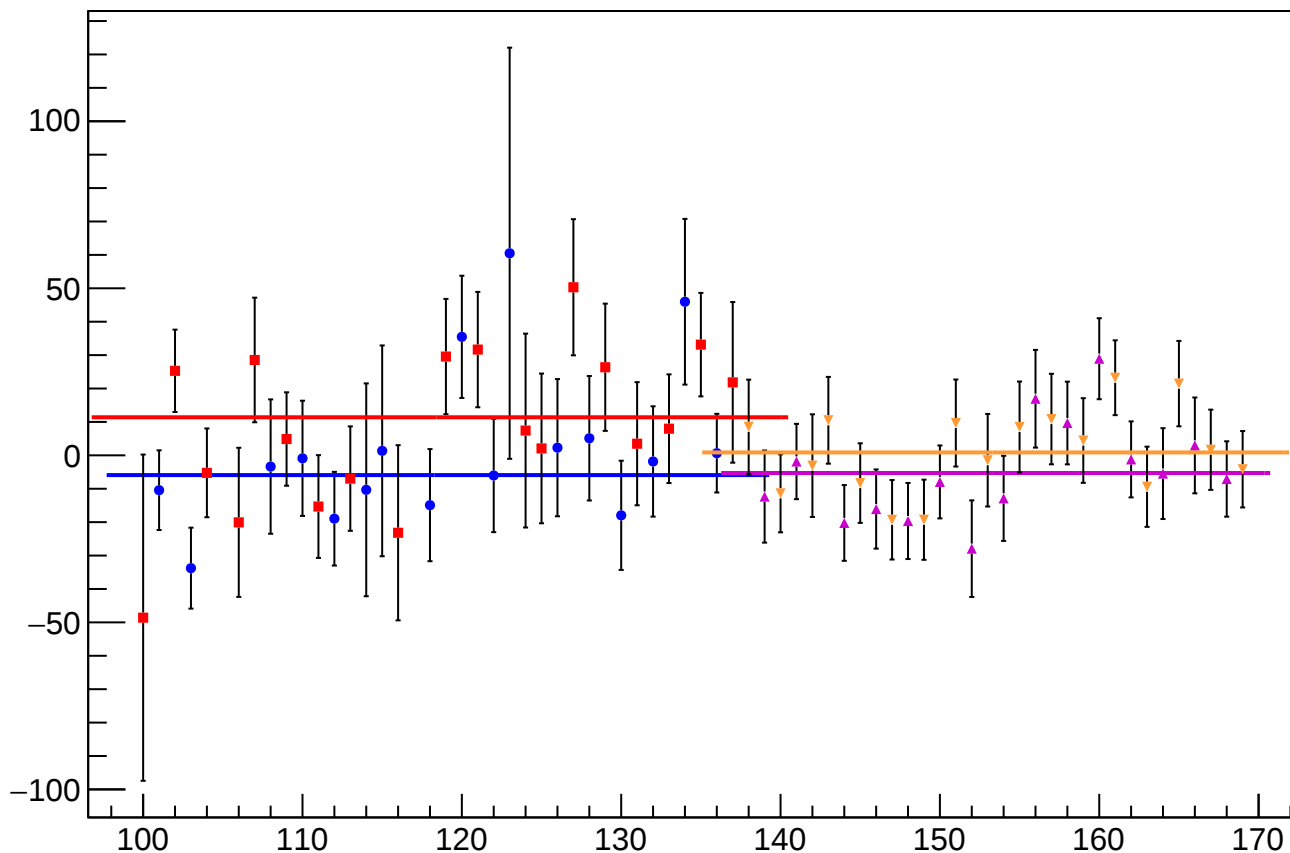
Right: 181.961+/-0.037 χ^2/NDF : 2658380.0/35

In: 181.870+/-0.032 χ^2/NDF : 2566713.1/31

Out: 196.212+/-0.033 χ^2/NDF : 3116235.6/35

All: 188.767+/-0.023 χ^2/NDF : 5780487.2/67

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 $\chi^2/\text{NDF}: 18.8/16$

Left Out: 0.866 ± 3.052 $\chi^2/\text{NDF}: 17.2/16$

Right Out: 11.391 ± 4.079 $\chi^2/\text{NDF}: 22.9/18$

Left In: -5.291 ± 3.179 $\chi^2/\text{NDF}: 19.6/14$

Left: -2.086 ± 2.201 $\chi^2/\text{NDF}: 38.8/31$

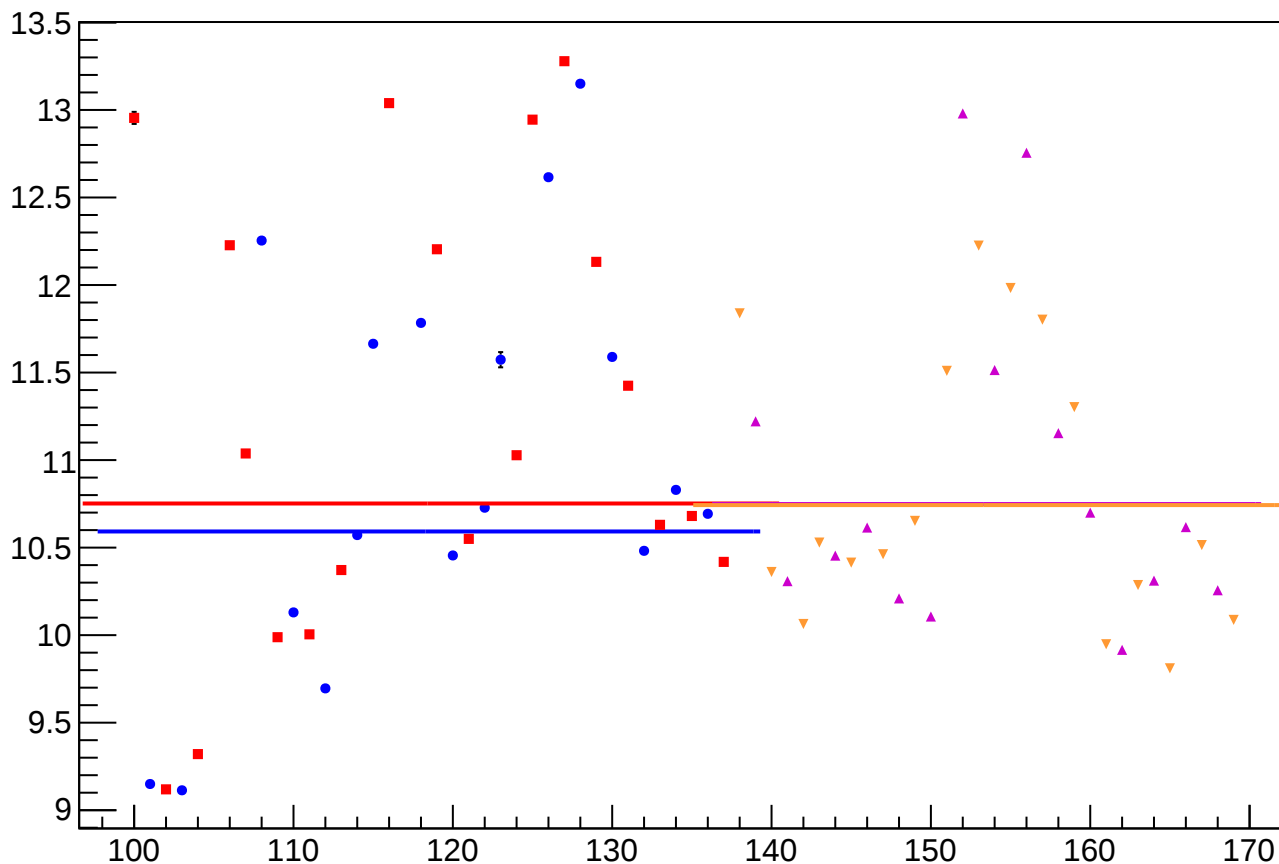
Right: 2.855 ± 2.903 $\chi^2/\text{NDF}: 50.6/35$

In: -5.522 ± 2.520 $\chi^2/\text{NDF}: 38.5/31$

Out: 4.643 ± 2.443 $\chi^2/\text{NDF}: 44.4/35$

All: -0.282 ± 1.754 $\chi^2/\text{NDF}: 91.2/67$

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: 10.743 $\pm$ 0.002 χ^2 /NDF:114871.3/16

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: 10.746 $\pm$ 0.002 χ^2 /NDF: 244771.6/31

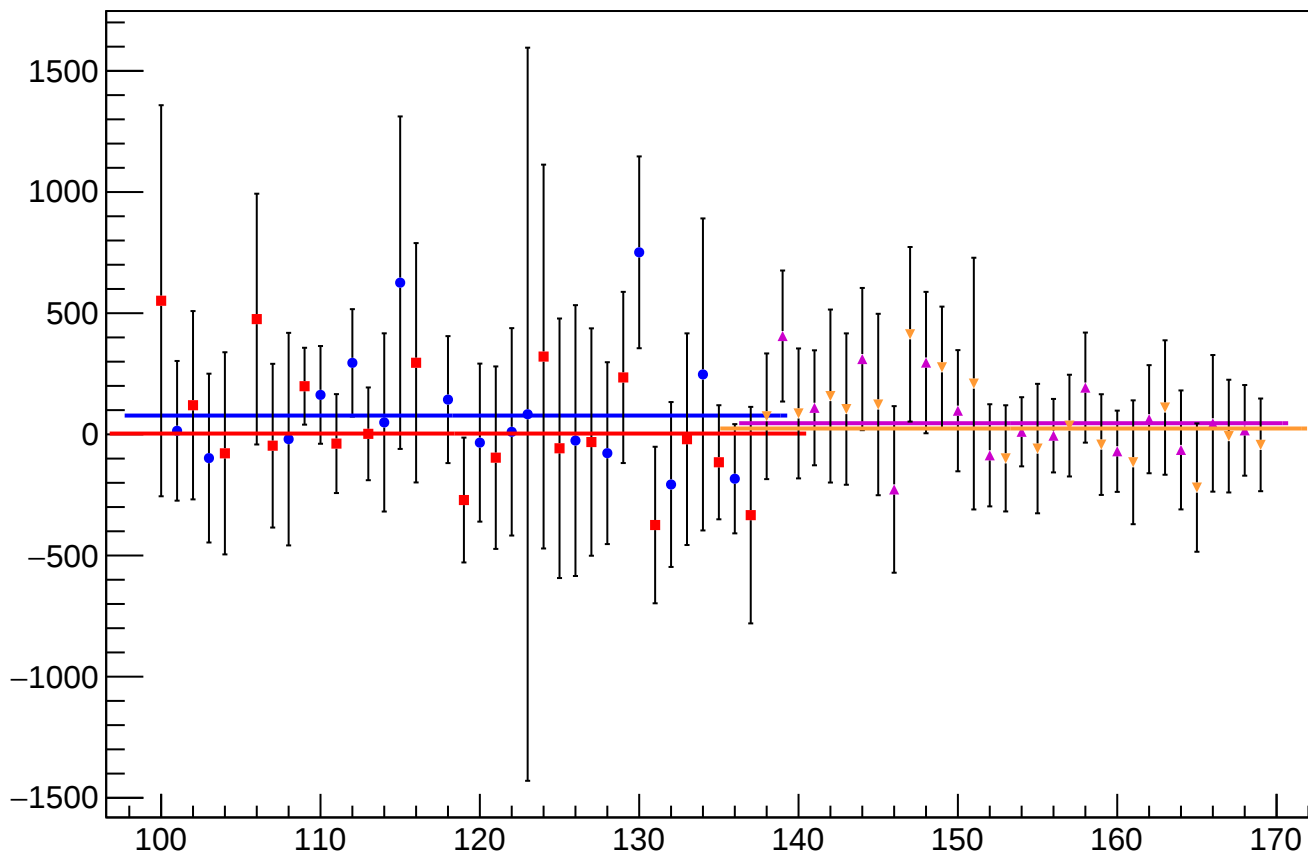
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.691 $\pm$ 0.002 χ^2 /NDF:292100.1/31

Out: 10.746 $\pm$ 0.002 χ^2 /NDF:291772.9/35

All: 10.719 $\pm$ 0.001 χ^2 /NDF: 584373.4/67

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: 24.165 $\pm$ 63.192 χ^2 /NDF:4.6/16

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: 36.549 $\pm$ 41.610 χ^2 /NDF: 10.4/31

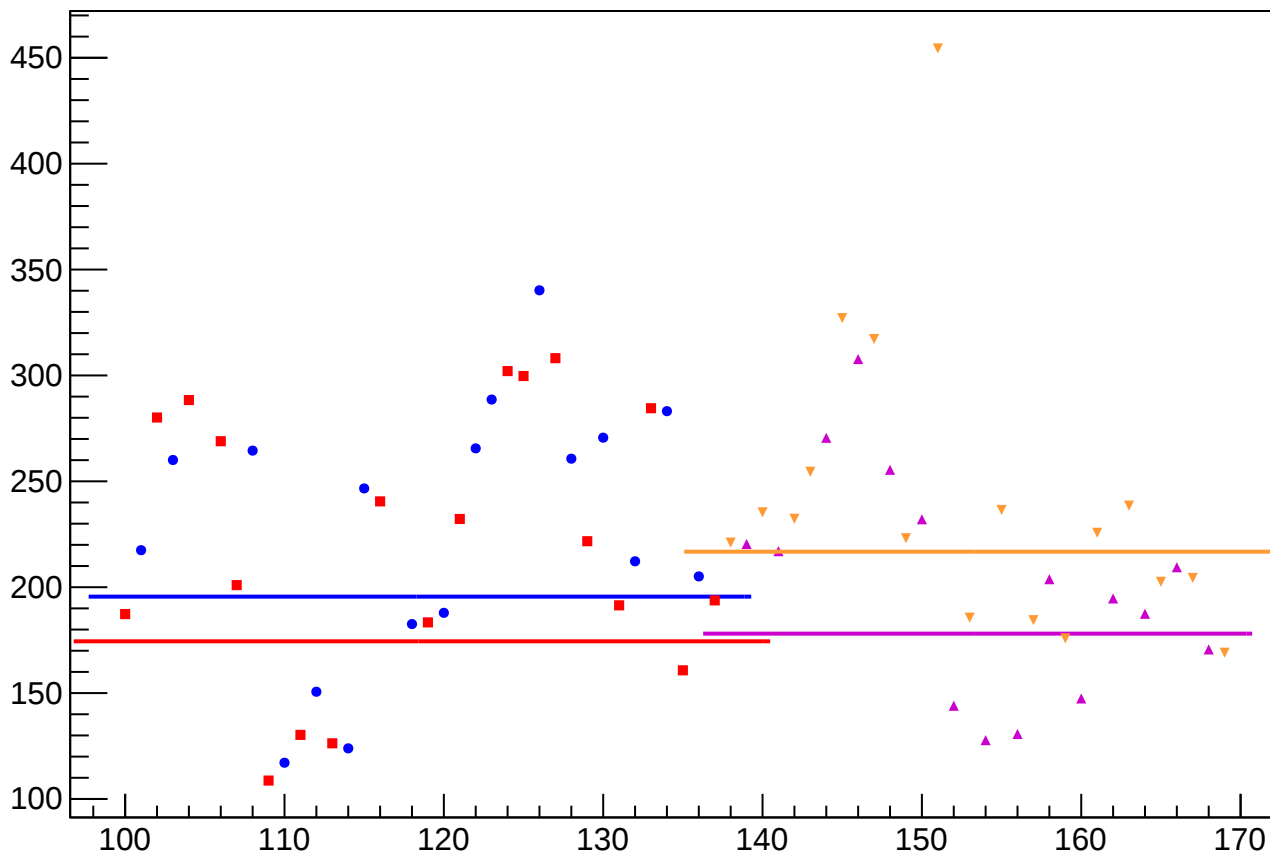
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 56.273 $\pm$ 45.437 χ^2 /NDF:13.4/31

Out: 14.924 $\pm$ 47.161 χ^2 /NDF:12.0/35

All: 36.368 $\pm$ 32.721 χ^2 /NDF: 25.8/67

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 216.782+/-0.045 χ^2/NDF : 1119278.5/16

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 178.075+/-0.039 χ^2/NDF : 1450096.3/14

Left: 194.858+/-0.029 χ^2/NDF : 2994393.8/31

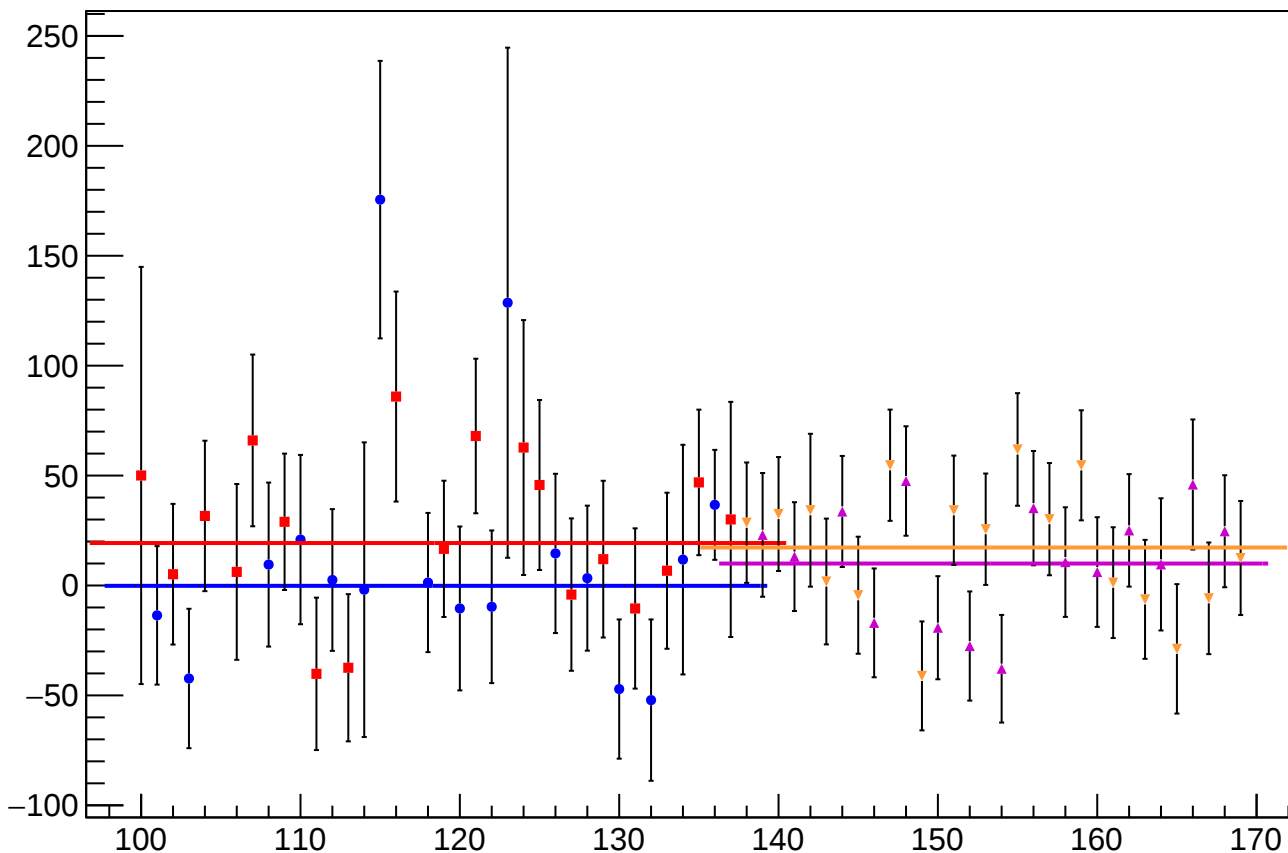
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 183.748+/-0.032 χ^2/NDF : 2494896.5/31

Out: 198.027+/-0.033 χ^2/NDF : 3045537.1/35

All: 190.622+/-0.023 χ^2/NDF : 5635523.5/67

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: 17.271 ± 6.398 $\chi^2/\text{NDF}: 20.0/16$

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: 13.749 ± 4.600 $\chi^2/\text{NDF}: 36.0/31$

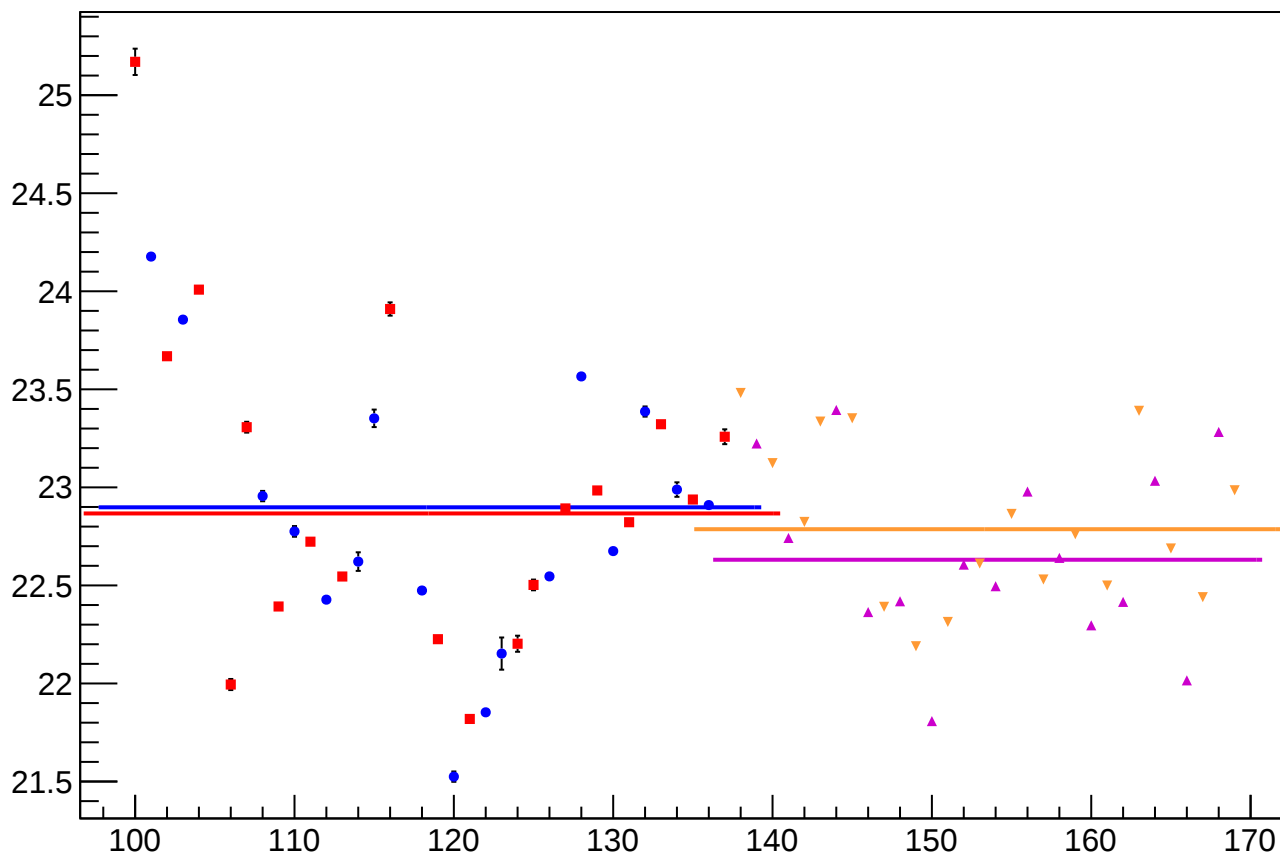
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 6.331 ± 5.295 $\chi^2/\text{NDF}: 34.3/31$

Out: 18.004 ± 5.123 $\chi^2/\text{NDF}: 34.9/35$

All: 12.361 ± 3.682 $\chi^2/\text{NDF}: 71.6/67$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2 /NDF: 12143.3/16

Left Out: 22.787 $\pm$ 0.005 χ^2 /NDF: 7722.6/16

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.631 $\pm$ 0.005 χ^2 /NDF: 9048.1/14

Left: 22.711 $\pm$ 0.003 χ^2 /NDF: 17343.3/31

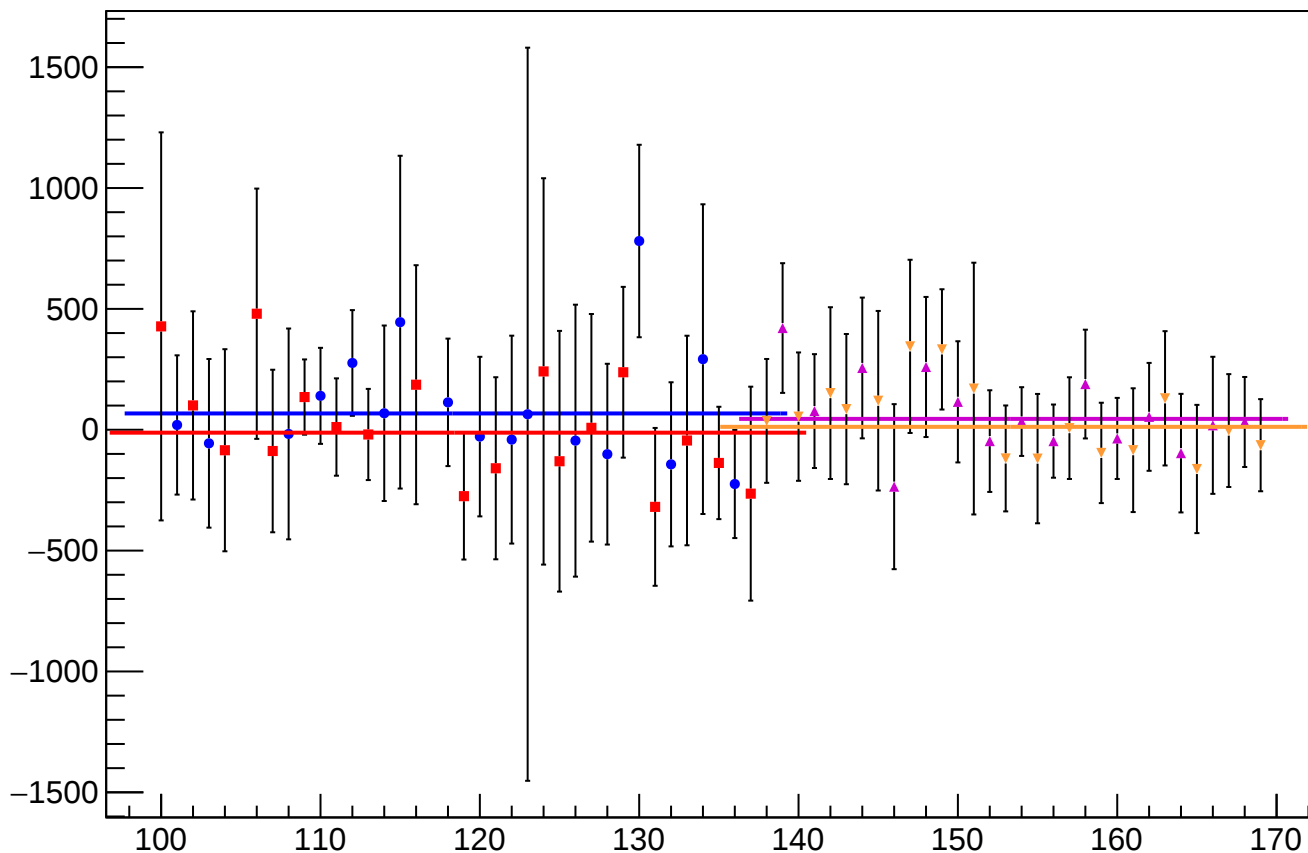
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.727 $\pm$ 0.004 χ^2 /NDF: 22366.5/31

Out: 22.815 $\pm$ 0.004 χ^2 /NDF: 18884.1/35

All: 22.773 $\pm$ 0.003 χ^2 /NDF: 41537.9/67

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449+/-79.404 χ^2/NDF : 7.4/16

Left Out: 12.013+/-63.060 χ^2/NDF :4.7/16

Right Out: -12.117+/-70.355 χ^2/NDF : 5.8/18

Left In: 44.944+/-55.124 χ^2/NDF :5.4/14

Left: 30.680+/-41.503 χ^2/NDF : 10.2/31

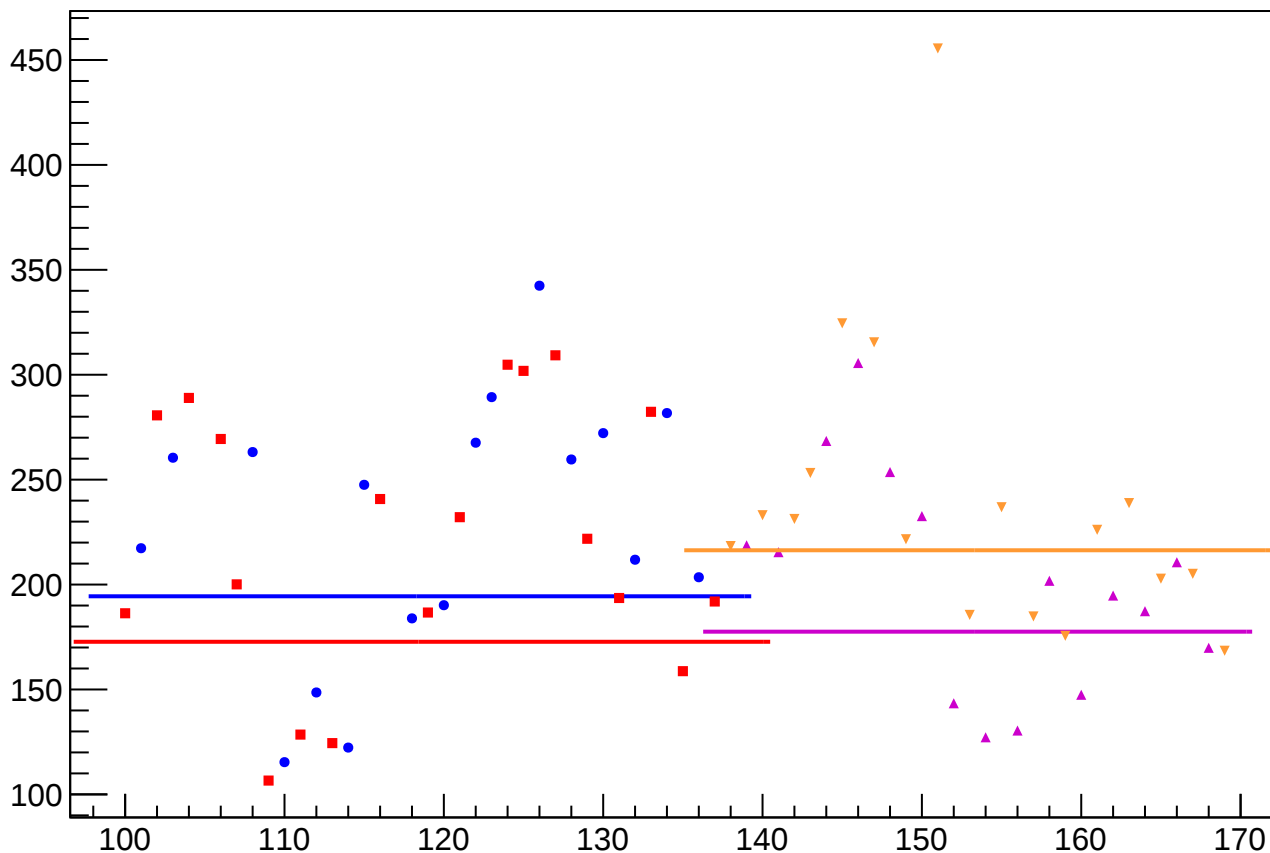
Right: 22.875+/-52.659 χ^2/NDF : 13.7/35

In: 52.263+/-45.282 χ^2/NDF :12.8/31

Out: 1.264+/-46.958 χ^2/NDF :10.5/35

All: 27.689+/-32.596 χ^2/NDF : 24.0/67

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411+/-0.056 χ^2/NDF : 1019913.2/16

Left Out: 216.341+/-0.045 χ^2/NDF : 1110391.5/16

Right Out: 172.730+/-0.050 χ^2/NDF : 1596758.0/18

Left In: 177.546+/-0.039 χ^2/NDF : 1439745.5/14

Left: 194.351+/-0.029 χ^2/NDF : 2979221.4/31

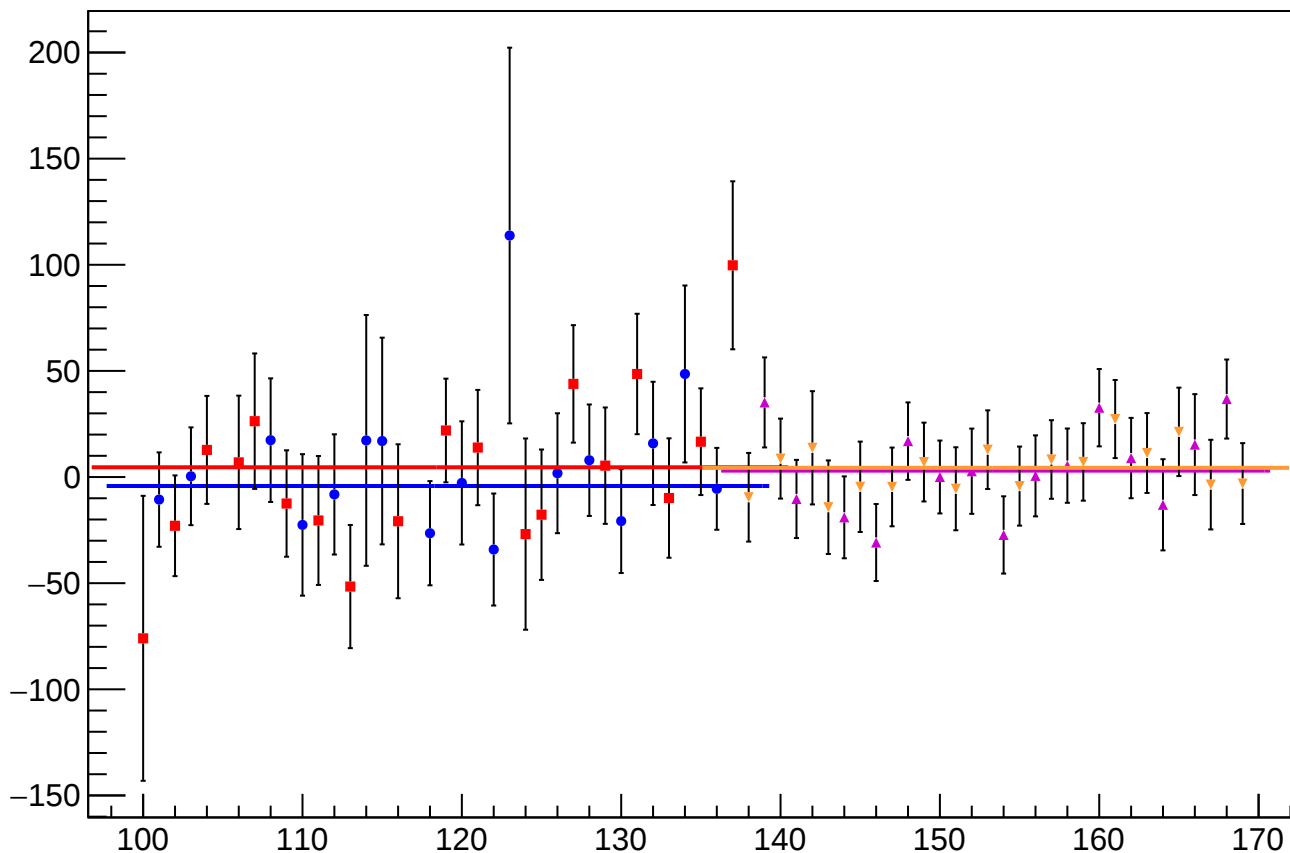
Right: 182.265+/-0.037 χ^2/NDF : 2700196.8/35

In: 183.031+/-0.032 χ^2/NDF : 2520533.7/31

Out: 196.913+/-0.033 χ^2/NDF : 3133289.7/35

All: 189.720+/-0.023 χ^2/NDF : 5744401.2/67

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 $\chi^2/\text{NDF}: 8.0/16$

Left Out: 4.344 ± 4.767 $\chi^2/\text{NDF}: 5.2/16$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 3.027 ± 4.913 $\chi^2/\text{NDF}: 17.9/14$

Left: 3.705 ± 3.421 $\chi^2/\text{NDF}: 23.1/31$

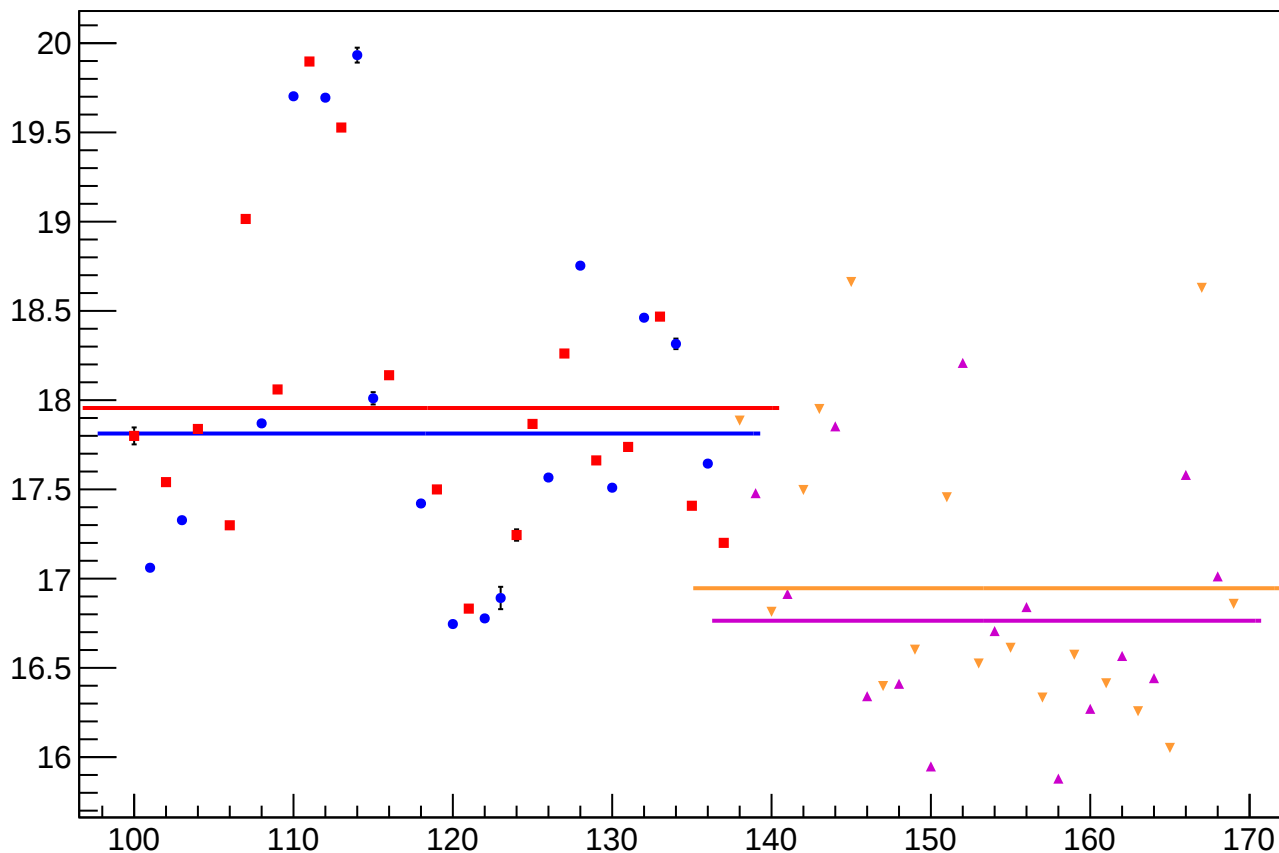
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: 0.575 ± 3.996 $\chi^2/\text{NDF}: 26.6/31$

Out: 4.429 ± 3.889 $\chi^2/\text{NDF}: 26.2/35$

All: 2.554 ± 2.787 $\chi^2/\text{NDF}: 53.3/67$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 ± 0.005 $\chi^2/\text{NDF}: 32034.8/16$

Left Out: 16.946 ± 0.003 $\chi^2/\text{NDF}: 51423.8/16$

Right Out: 17.956 ± 0.005 $\chi^2/\text{NDF}: 25445.3/18$

Left In: 16.764 ± 0.003 $\chi^2/\text{NDF}: 35497.4/14$

Left: 16.858 ± 0.002 $\chi^2/\text{NDF}: 88337.0/31$

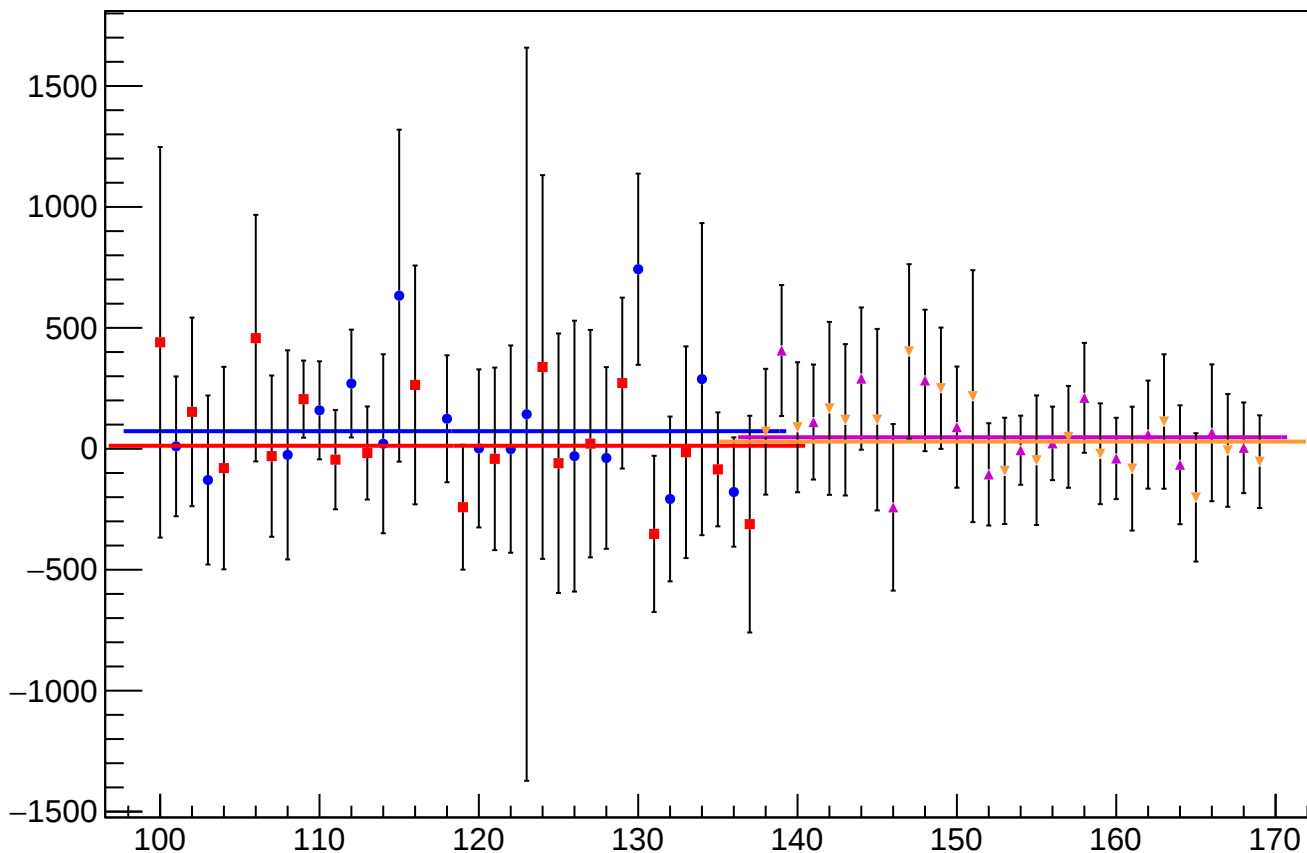
Right: 17.886 ± 0.003 $\chi^2/\text{NDF}: 57922.3/35$

In: 17.119 ± 0.003 $\chi^2/\text{NDF}: 98370.3/31$

Out: 17.284 ± 0.003 $\chi^2/\text{NDF}: 106877.1/35$

All: 17.204 ± 0.002 $\chi^2/\text{NDF}: 206998.9/67$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888 $\pm$ 79.948 χ^2 /NDF: 7.2/16

Left Out: 29.724 $\pm$ 63.333 χ^2 /NDF:4.0/16

Right Out: 12.565 $\pm$ 71.013 χ^2 /NDF: 6.7/18

Left In: 47.781 $\pm$ 55.400 χ^2 /NDF:5.6/14

Left: 39.953 $\pm$ 41.698 χ^2 /NDF: 9.7/31

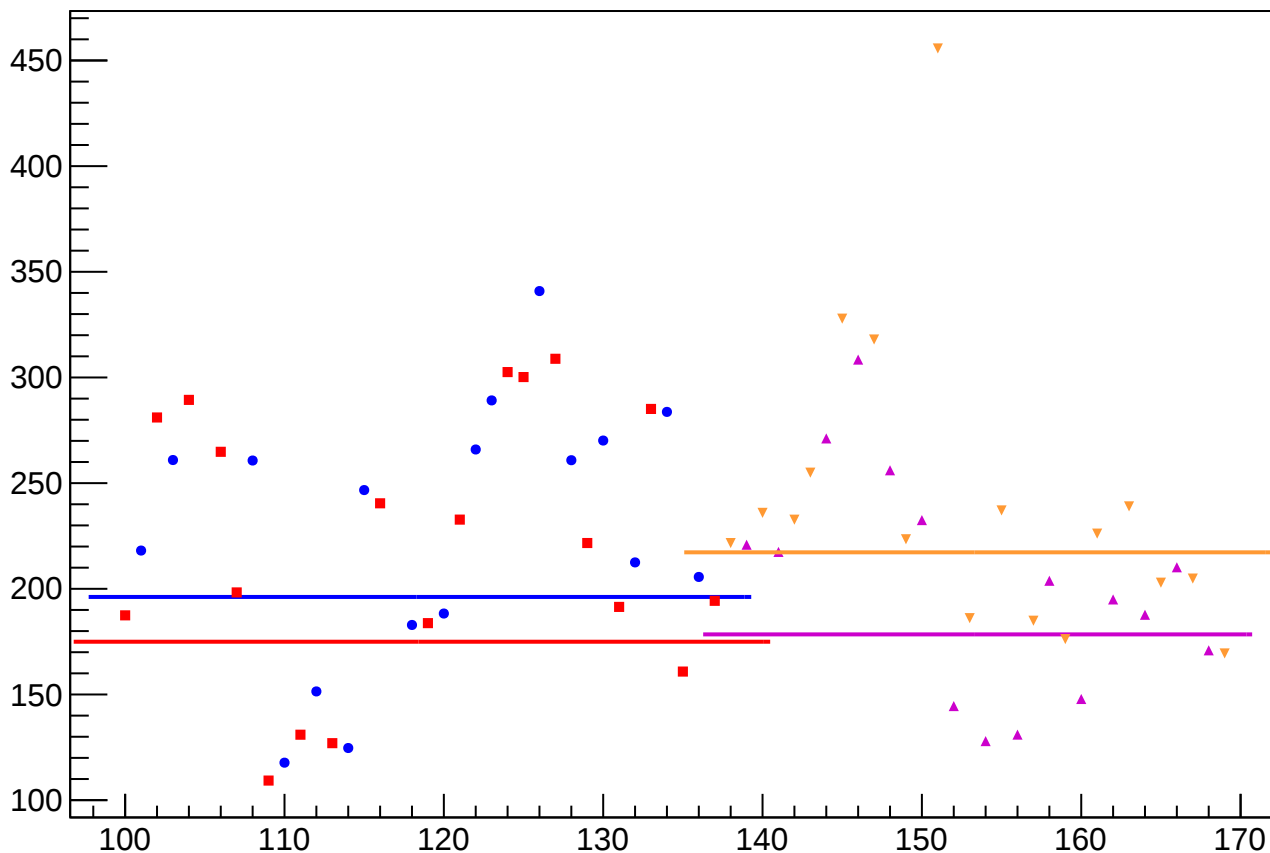
Right: 39.168 $\pm$ 53.093 χ^2 /NDF: 14.3/35

In: 55.926 $\pm$ 45.536 χ^2 /NDF:12.9/31

Out: 22.122 $\pm$ 47.266 χ^2 /NDF:10.8/35

All: 39.654 $\pm$ 32.793 χ^2 /NDF: 24.0/67

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: 217.262+/-0.045 χ^2/NDF : 1119458.6/16

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: 195.266+/-0.029 χ^2/NDF : 2995142.5/31

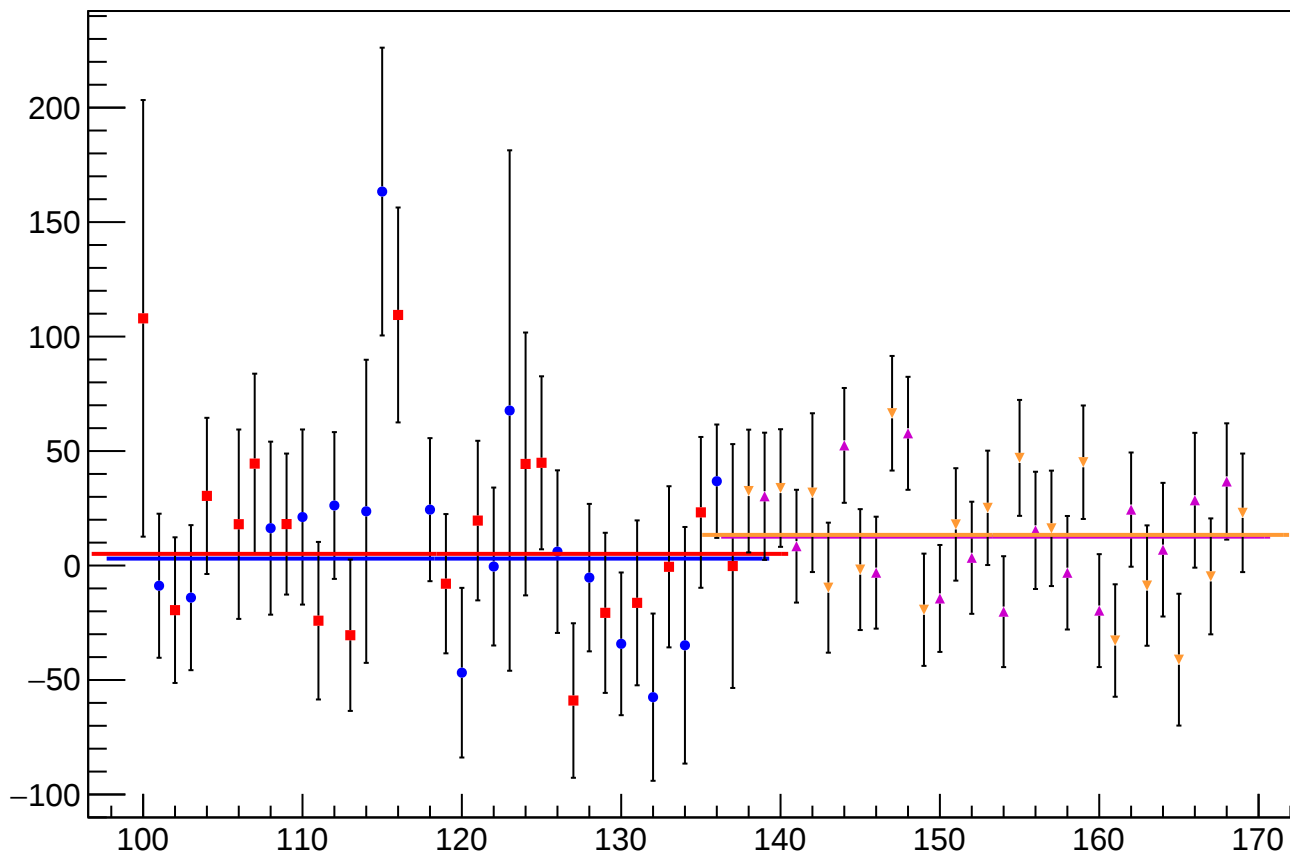
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.182+/-0.032 χ^2/NDF : 2481176.6/31

Out: 198.524+/-0.033 χ^2/NDF : 3025625.0/35

All: 191.086+/-0.023 χ^2/NDF : 5602297.6/67

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 13.385 ± 6.317 $\chi^2/\text{NDF}: 20.8/16$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 12.608 ± 6.546 $\chi^2/\text{NDF}: 13.6/14$

Left: 13.010 ± 4.546 $\chi^2/\text{NDF}: 34.5/31$

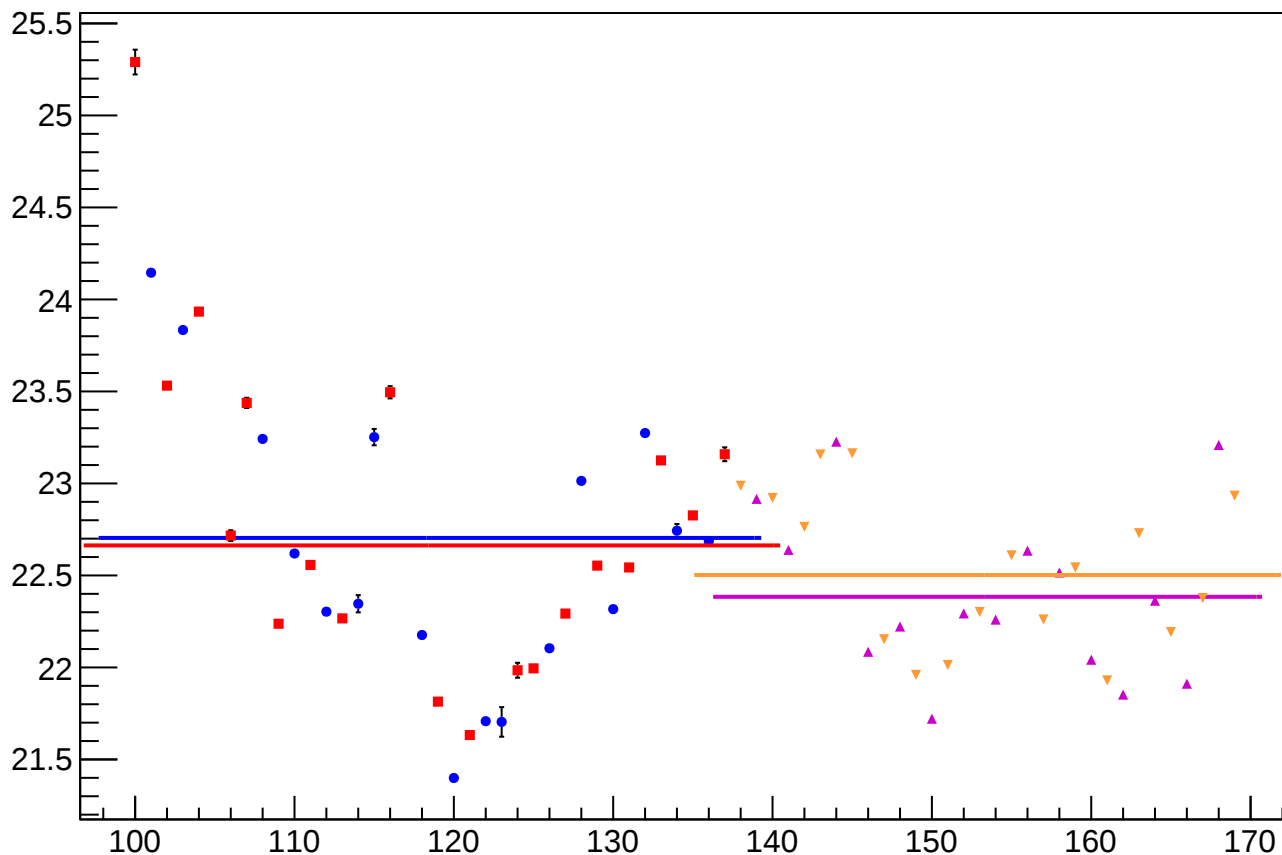
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 9.169 ± 5.242 $\chi^2/\text{NDF}: 31.5/31$

Out: 10.424 ± 5.066 $\chi^2/\text{NDF}: 38.6/35$

All: 9.818 ± 3.643 $\chi^2/\text{NDF}: 70.2/67$

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: 22.502 $\pm$ 0.004 χ^2 /NDF:8207.4/16

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: 22.445 $\pm$ 0.003 χ^2 /NDF: 17995.9/31

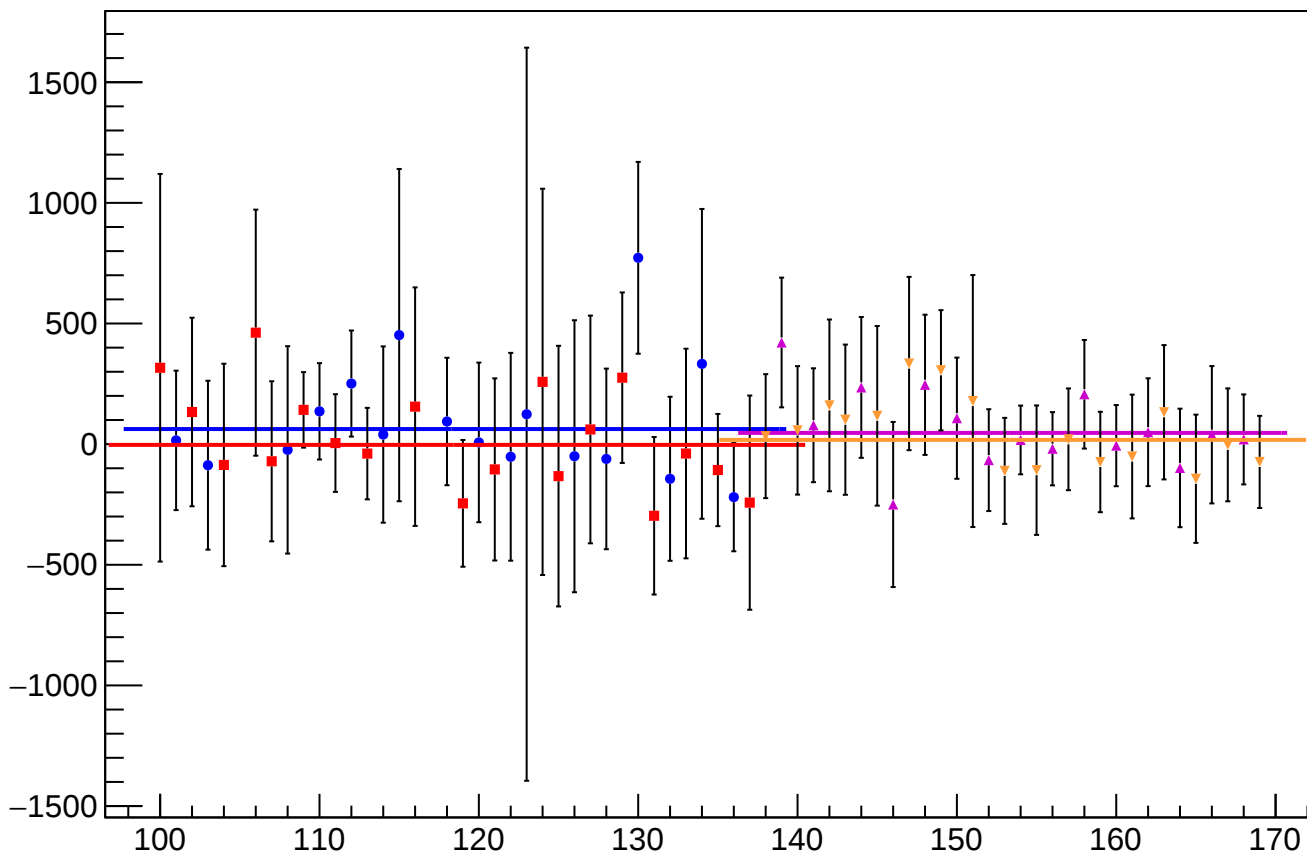
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.499 $\pm$ 0.004 χ^2 /NDF:25269.9/31

Out: 22.560 $\pm$ 0.004 χ^2 /NDF:21613.5/35

All: 22.530 $\pm$ 0.003 χ^2 /NDF: 47023.7/67

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: 17.646+/-63.200 χ^2/NDF : 4.1/16

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: 34.077+/-41.590 χ^2/NDF : 9.4/31

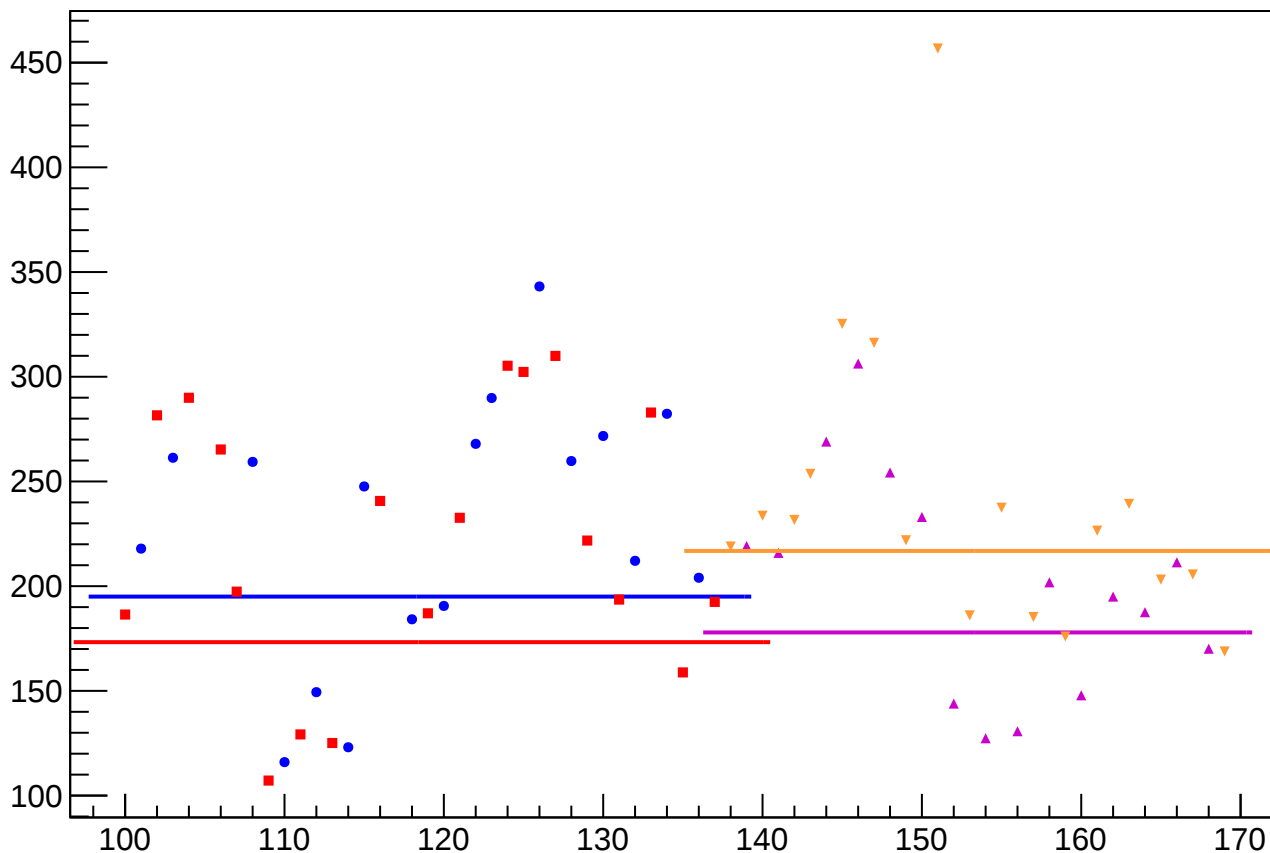
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 51.810+/-45.381 χ^2/NDF : 12.2/31

Out: 8.433+/-47.064 χ^2/NDF : 9.4/35

All: 30.911+/-32.668 χ^2/NDF : 22.1/67

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: 216.821 $\pm$ 0.045 χ^2 /NDF:1110587.4/16

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: 194.757 $\pm$ 0.029 χ^2 /NDF: 2980097.7/31

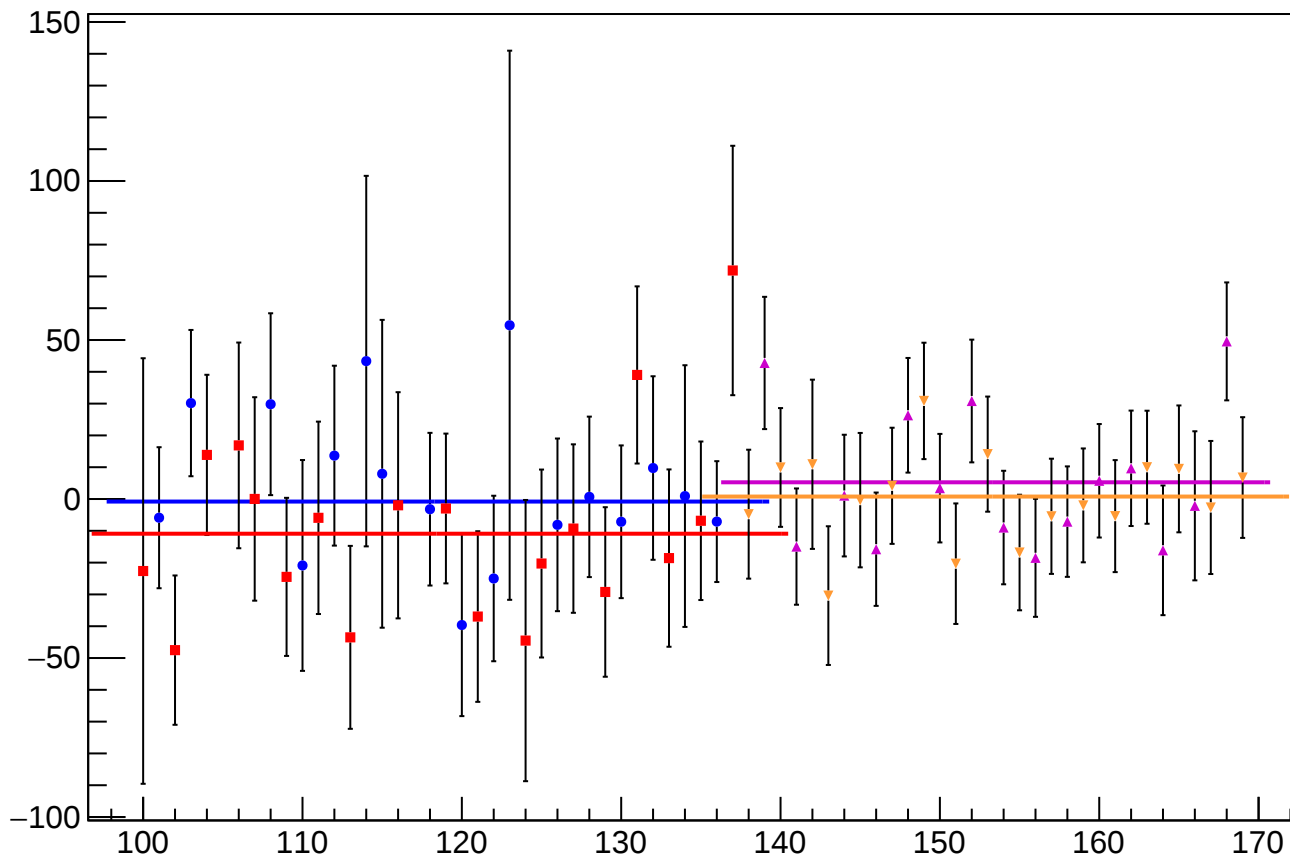
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 183.467 $\pm$ 0.032 χ^2 /NDF:2506280.5/31

Out: 197.418 $\pm$ 0.033 χ^2 /NDF:3111990.8/35

All: 190.189 $\pm$ 0.023 χ^2 /NDF: 5709330.5/67

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: 0.773 ± 4.661 χ^2/NDF : 8.8/16

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 5.257 ± 4.819 χ^2/NDF : 18.8/14

Left: 2.940 ± 3.350 χ^2/NDF : 28.1/31

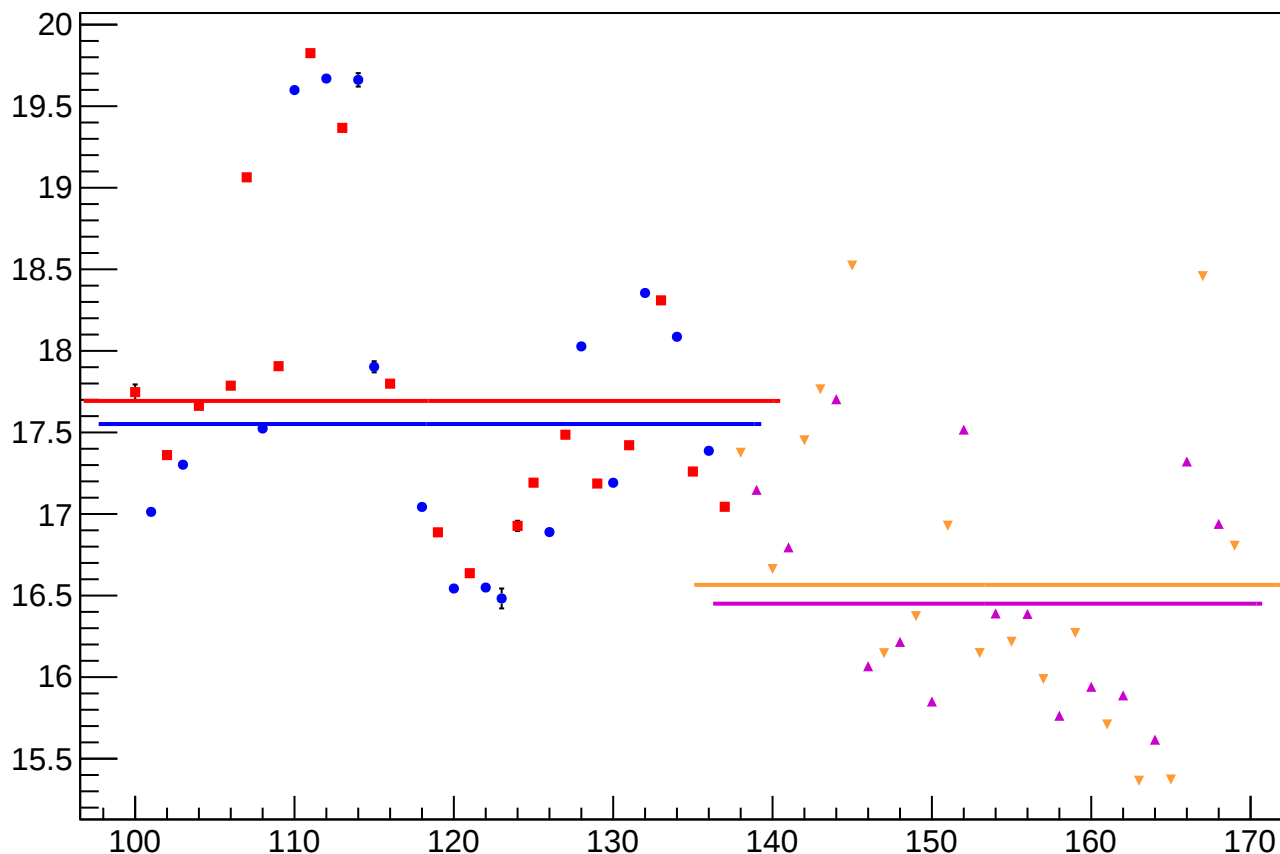
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 3.219 ± 3.926 χ^2/NDF : 27.1/31

Out: -3.094 ± 3.812 χ^2/NDF : 26.8/35

All: -0.031 ± 2.735 χ^2/NDF : 55.3/67

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: 16.566 $\pm$ 0.003 χ^2 /NDF: 72737.5/16

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: 16.510 $\pm$ 0.002 χ^2 /NDF: 108960.5/31

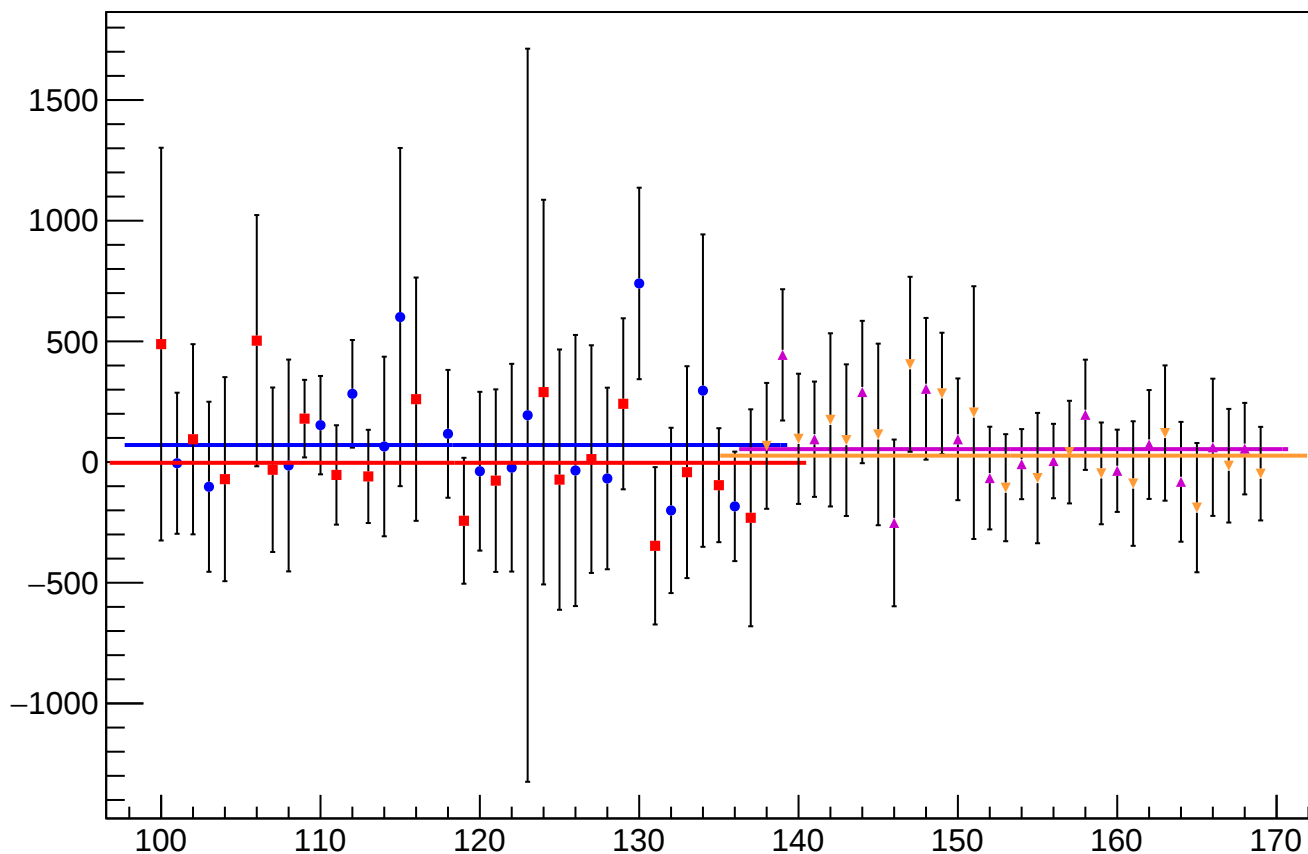
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.821 $\pm$ 0.003 χ^2 /NDF: 104775.0/31

Out: 16.939 $\pm$ 0.003 χ^2 /NDF: 142242.2/35

All: 16.882 $\pm$ 0.002 χ^2 /NDF: 247949.0/67

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: 26.579+/-63.823 χ^2/NDF : 4.4/16

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: 41.850+/-42.070 χ^2/NDF : 10.3/31

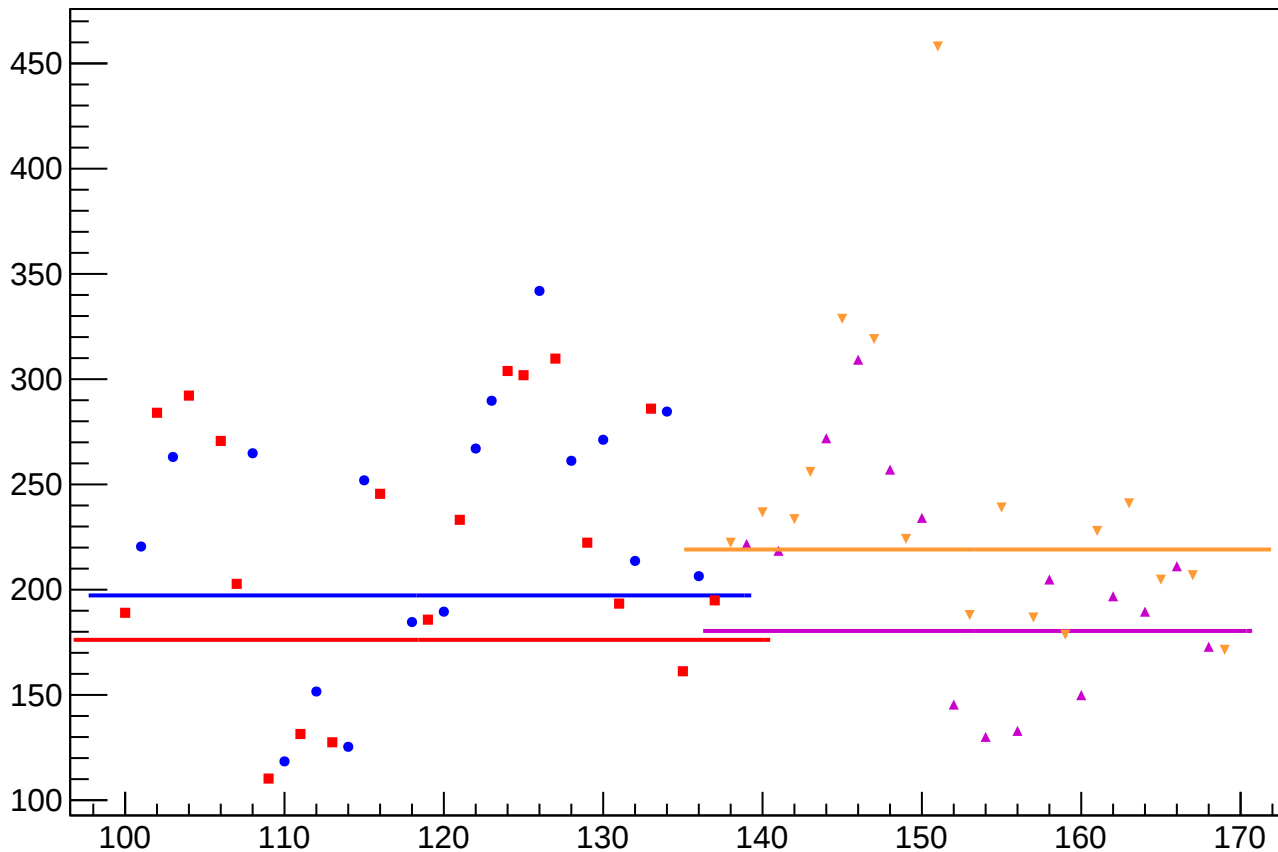
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 59.145+/-45.922 χ^2/NDF : 13.1/31

Out: 13.436+/-47.616 χ^2/NDF : 10.6/35

All: 37.118+/-33.054 χ^2/NDF : 24.2/67

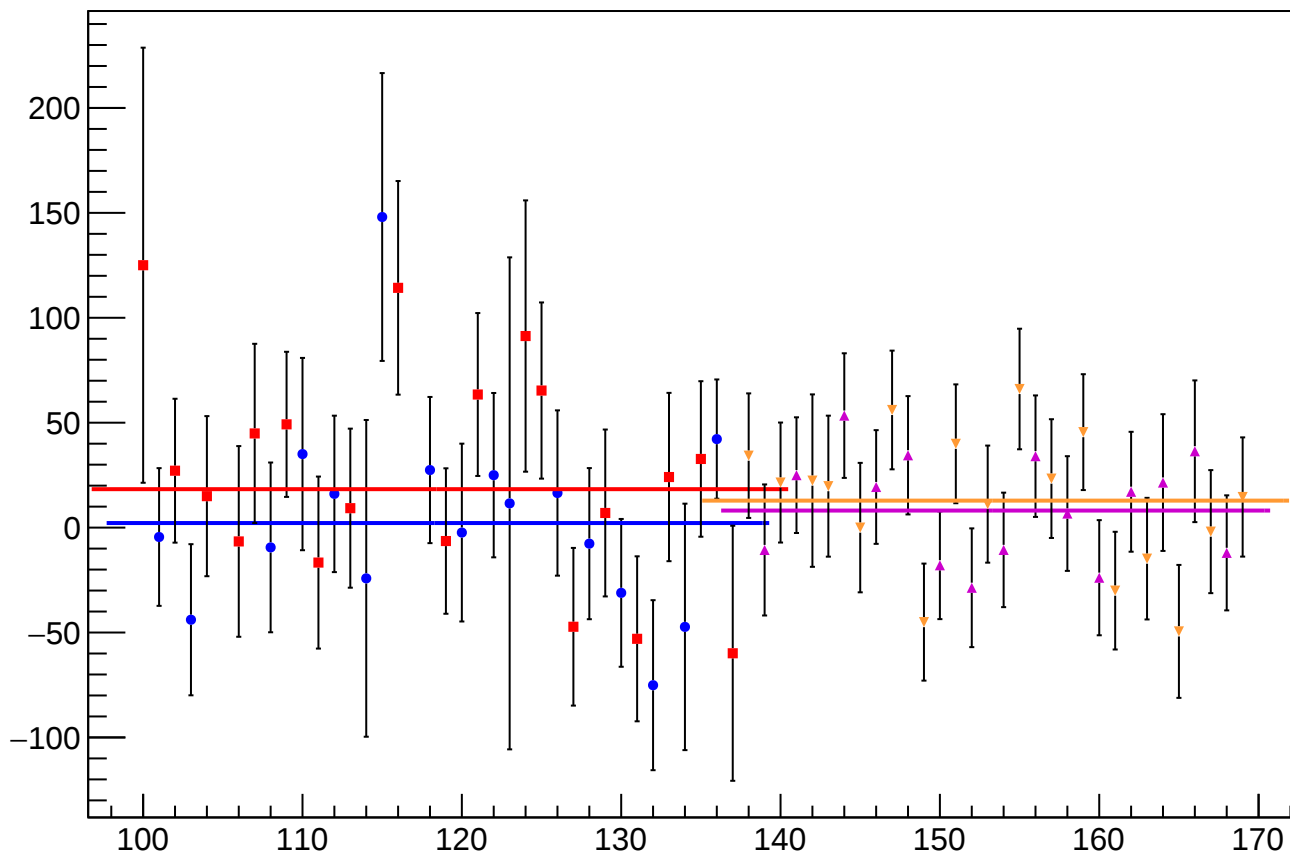
asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16
 Left Out: 219.087+/-0.045 χ^2/NDF : 1095881.4/16
 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: 197.207+/-0.030 χ^2/NDF : 2917118.6/31
 Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35
 In: 185.901+/-0.032 χ^2/NDF : 2434503.8/31
 Out: 200.062+/-0.034 χ^2/NDF : 3016371.7/35
 All: 192.725+/-0.023 χ^2/NDF : 5542531.8/67

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 χ^2/NDF : 15.4/16

Left Out: 12.864 ± 7.145 χ^2/NDF : 20.8/16

Right Out: 18.320 ± 9.497 χ^2/NDF : 19.6/18

Left In: 8.128 ± 7.364 χ^2/NDF : 11.0/14

Left: 10.567 ± 5.128 χ^2/NDF : 32.0/31

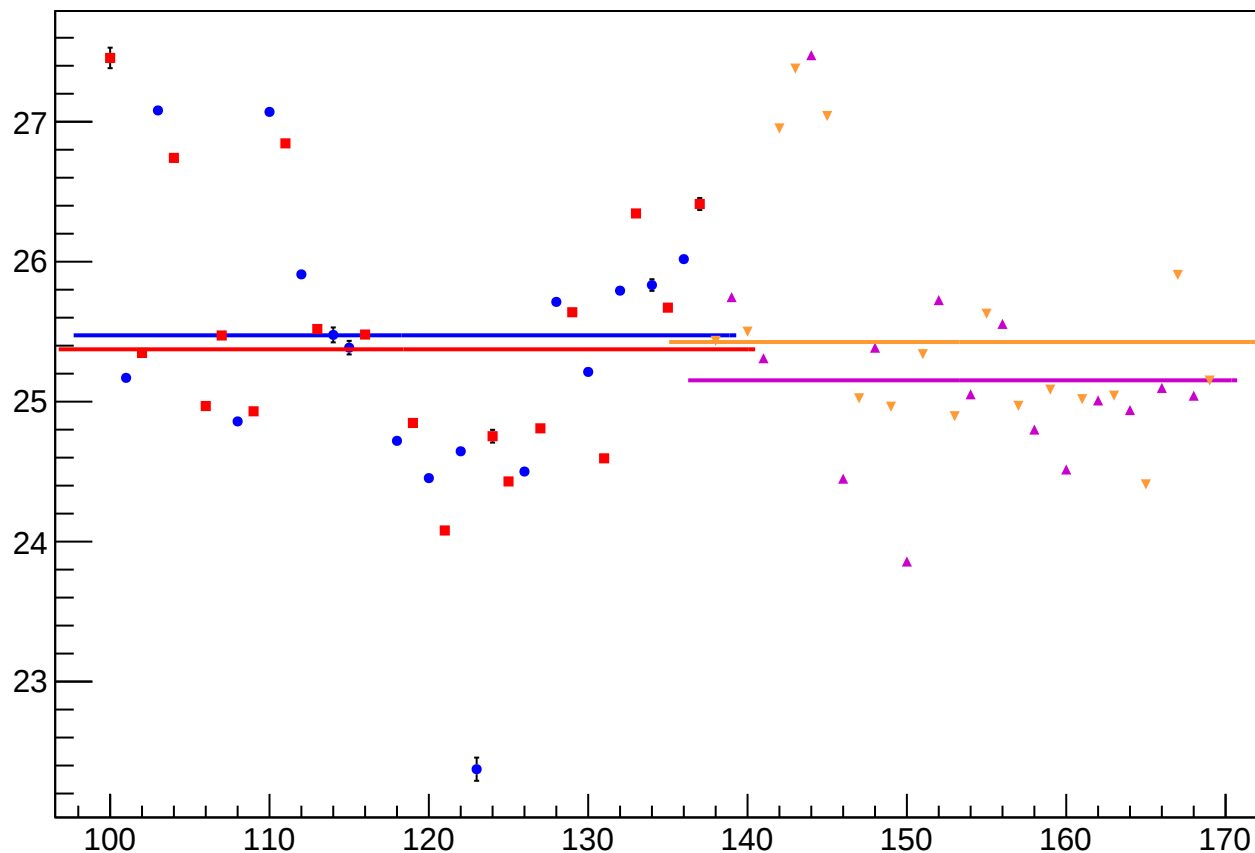
Right: 10.522 ± 6.828 χ^2/NDF : 36.4/35

In: 5.987 ± 5.893 χ^2/NDF : 26.6/31

Out: 14.836 ± 5.710 χ^2/NDF : 40.6/35

All: 10.551 ± 4.101 χ^2/NDF : 68.3/67

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: 25.426 $\pm$ 0.005 χ^2 /NDF:21189.1/16

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: 25.293 $\pm$ 0.004 χ^2 /NDF: 45029.2/31

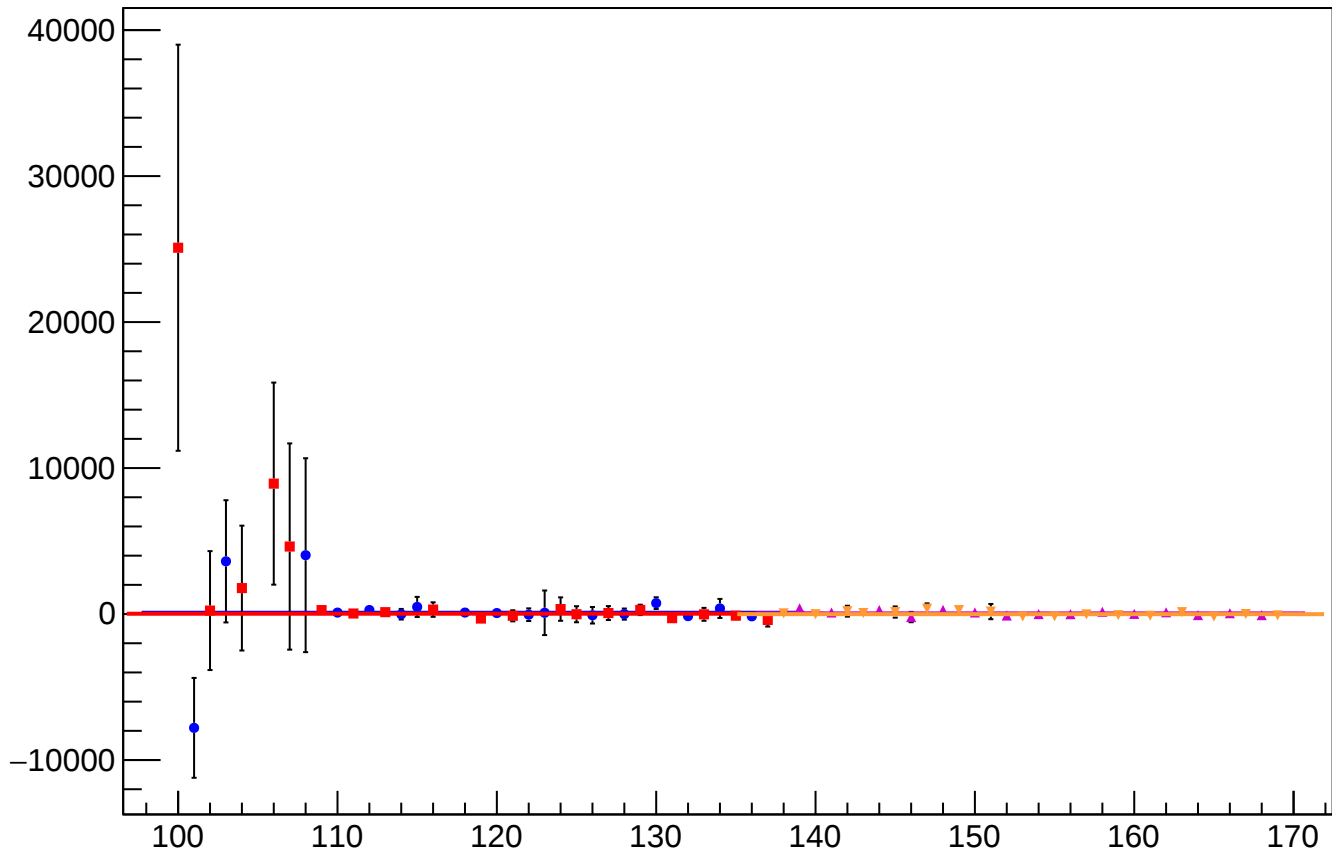
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.268 $\pm$ 0.004 χ^2 /NDF:37850.0/31

Out: 25.407 $\pm$ 0.004 χ^2 /NDF:34808.7/35

All: 25.340 $\pm$ 0.003 χ^2 /NDF: 73234.3/67

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: -7.592+/-64.241 χ^2/NDF : 4.8/16

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: 22.993+/-42.471 χ^2/NDF : 10.5/31

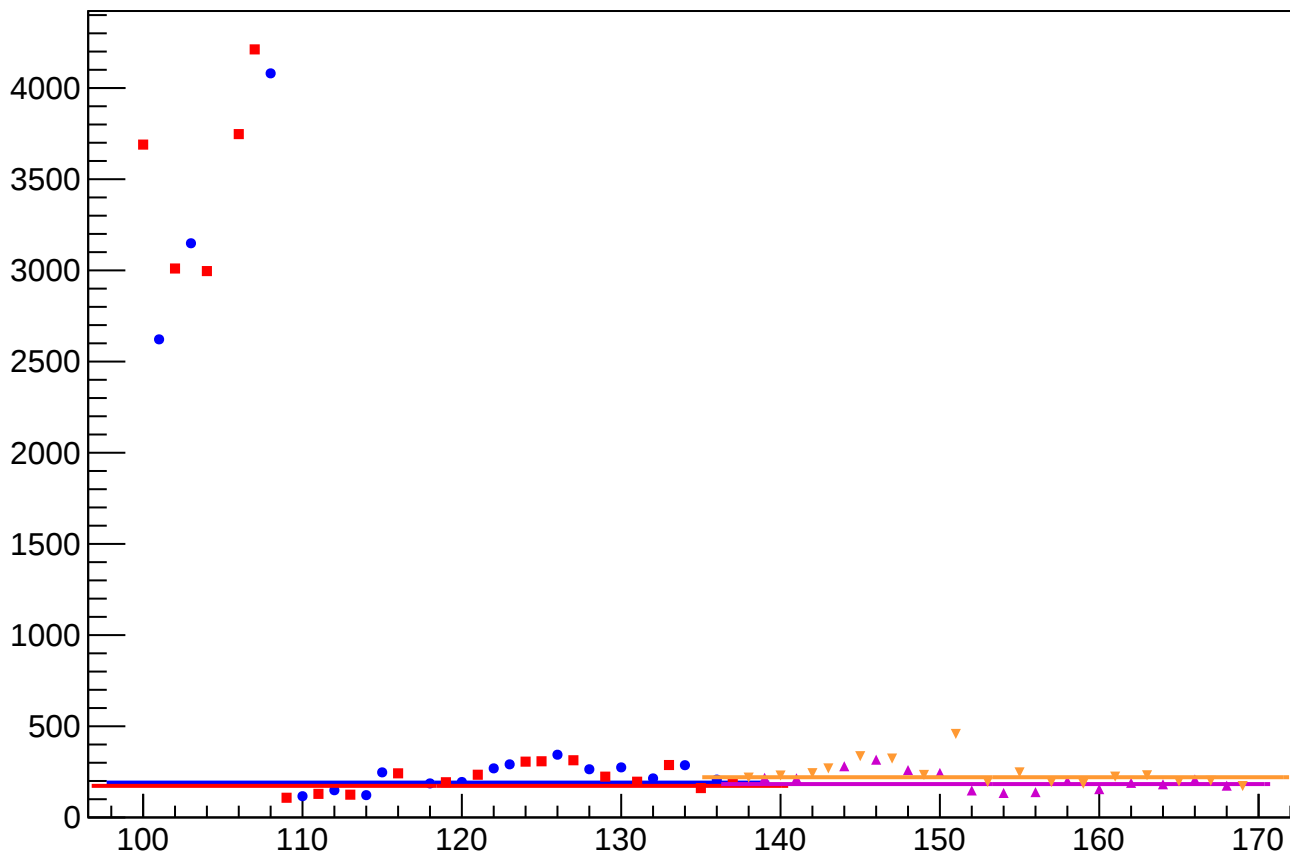
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 59.364+/-47.549 χ^2/NDF : 17.7/31

Out: 4.089+/-50.309 χ^2/NDF : 16.8/35

All: 33.285+/-34.557 χ^2/NDF : 35.2/67

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: 220.647+/-0.045 χ^2/NDF : 1094762.8/16

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: 199.486+/-0.030 χ^2/NDF : 2780847.4/31

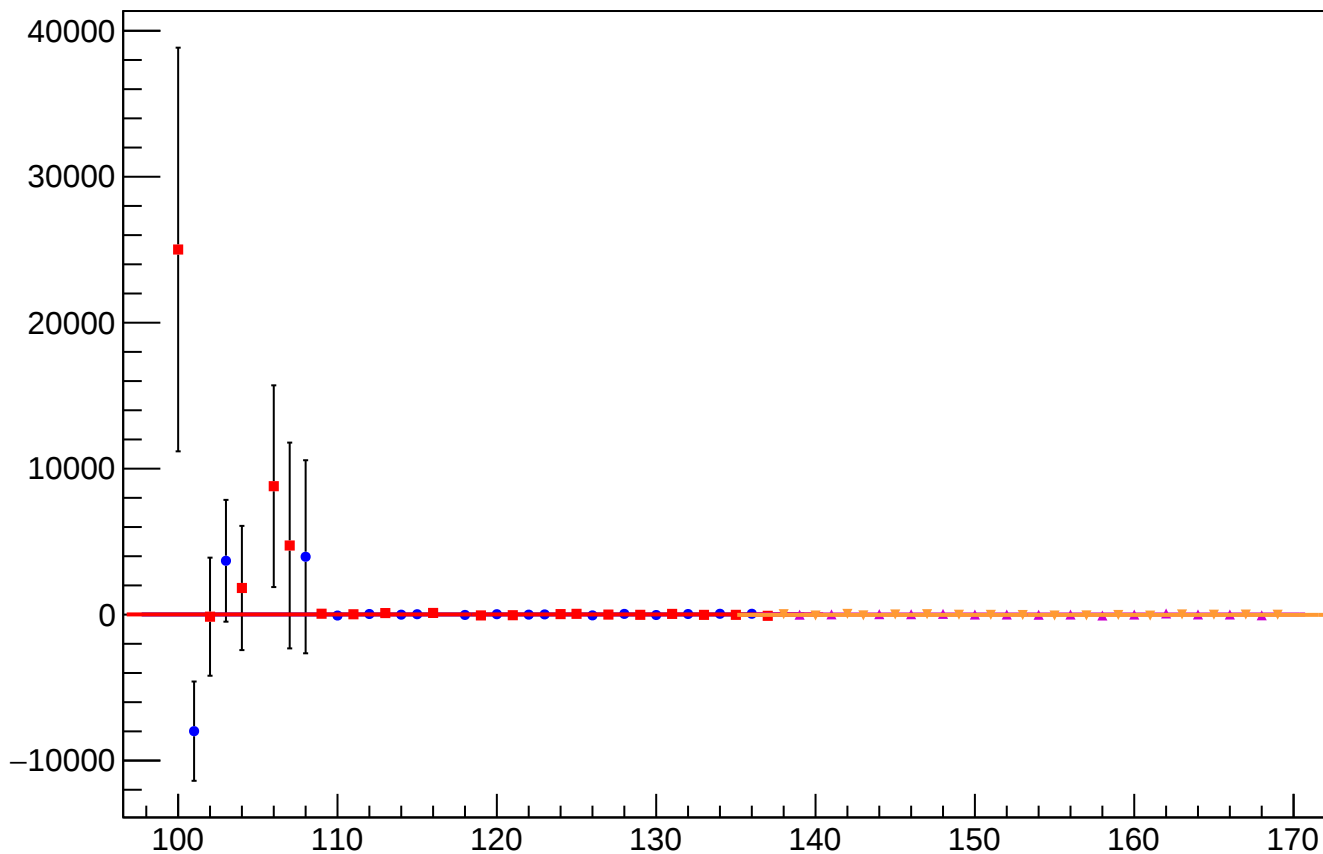
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 185.451+/-0.034 χ^2/NDF : 4884502.1/31

Out: 202.326+/-0.036 χ^2/NDF : 5722620.7/35

All: 193.413+/-0.024 χ^2/NDF : 10725967.5/67

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -17.792+/-8.153 χ^2/NDF : 16.1/16

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: -5.166+/-5.881 χ^2/NDF : 38.4/31

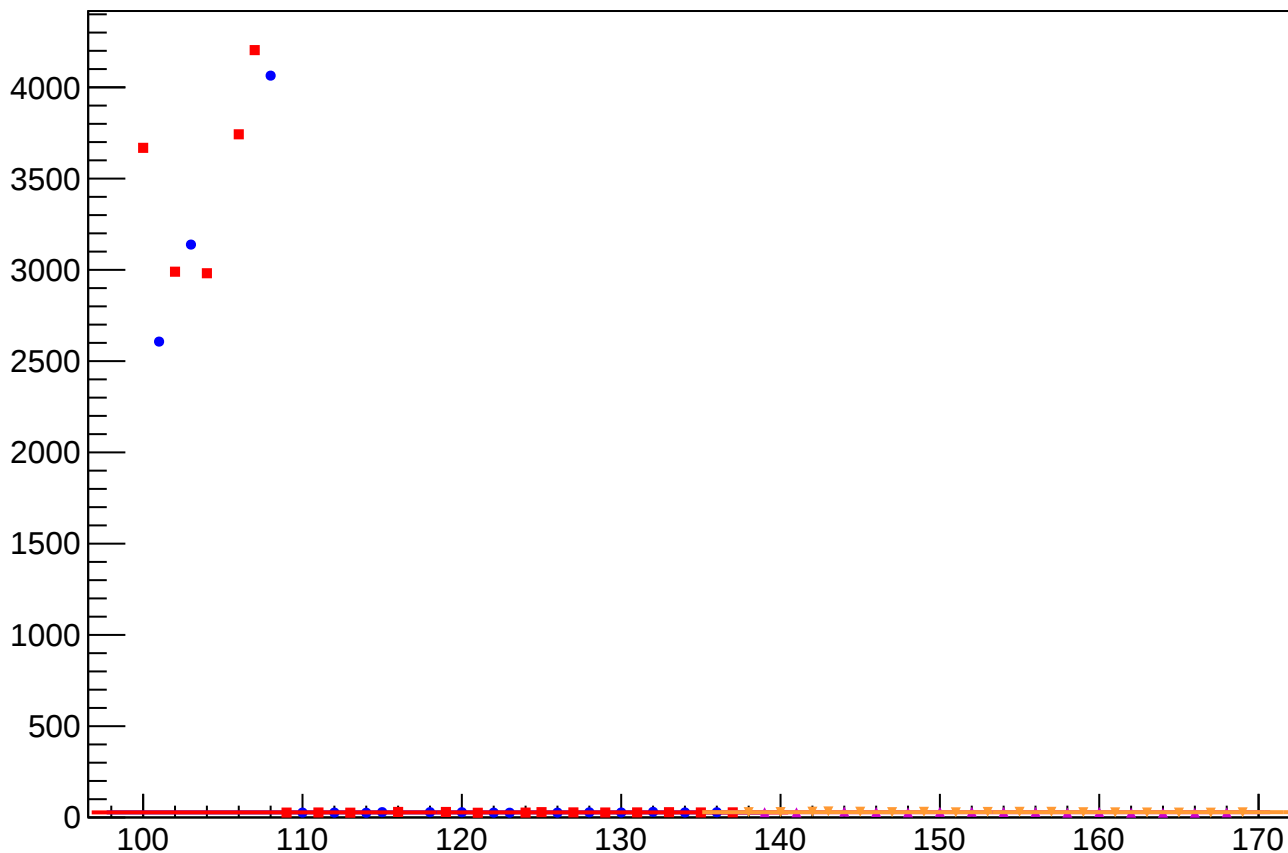
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 9.139+/-6.967 χ^2/NDF : 35.6/31

Out: -8.331+/-6.783 χ^2/NDF : 44.9/35

All: 0.170+/-4.860 χ^2/NDF : 83.7/67

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 28.952 $\pm$ 0.006 χ^2 /NDF: 94302.8/16

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: 28.937 $\pm$ 0.004 χ^2 /NDF: 202594.4/31

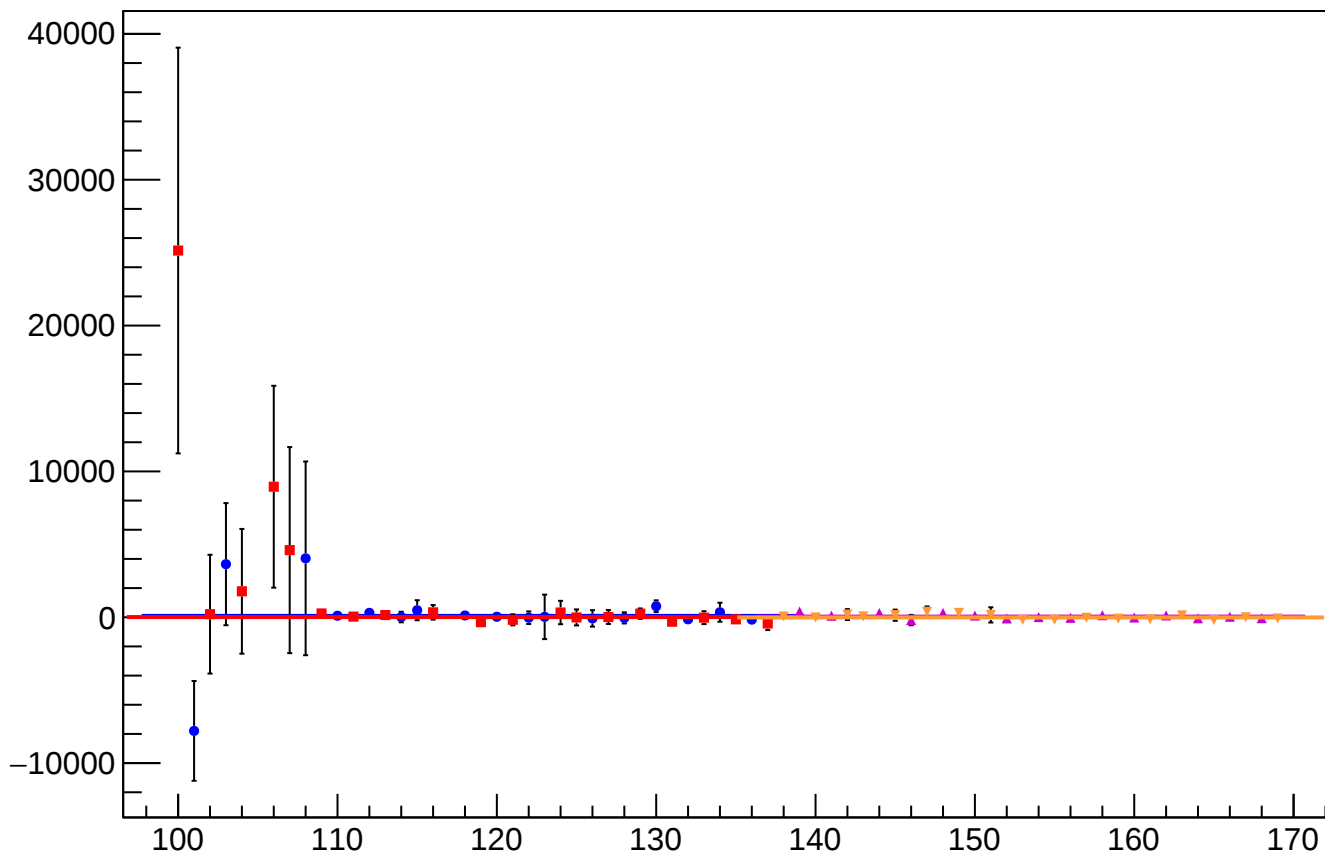
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.566 $\pm$ 0.005 χ^2 /NDF: 3145805.9/31

Out: 28.565 $\pm$ 0.005 χ^2 /NDF: 3585751.8/35

All: 28.565 $\pm$ 0.003 χ^2 /NDF: 6731557.8/67

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: -13.375+/-64.102 χ^2/NDF : 5.5/16

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: 19.596+/-42.384 χ^2/NDF : 11.3/31

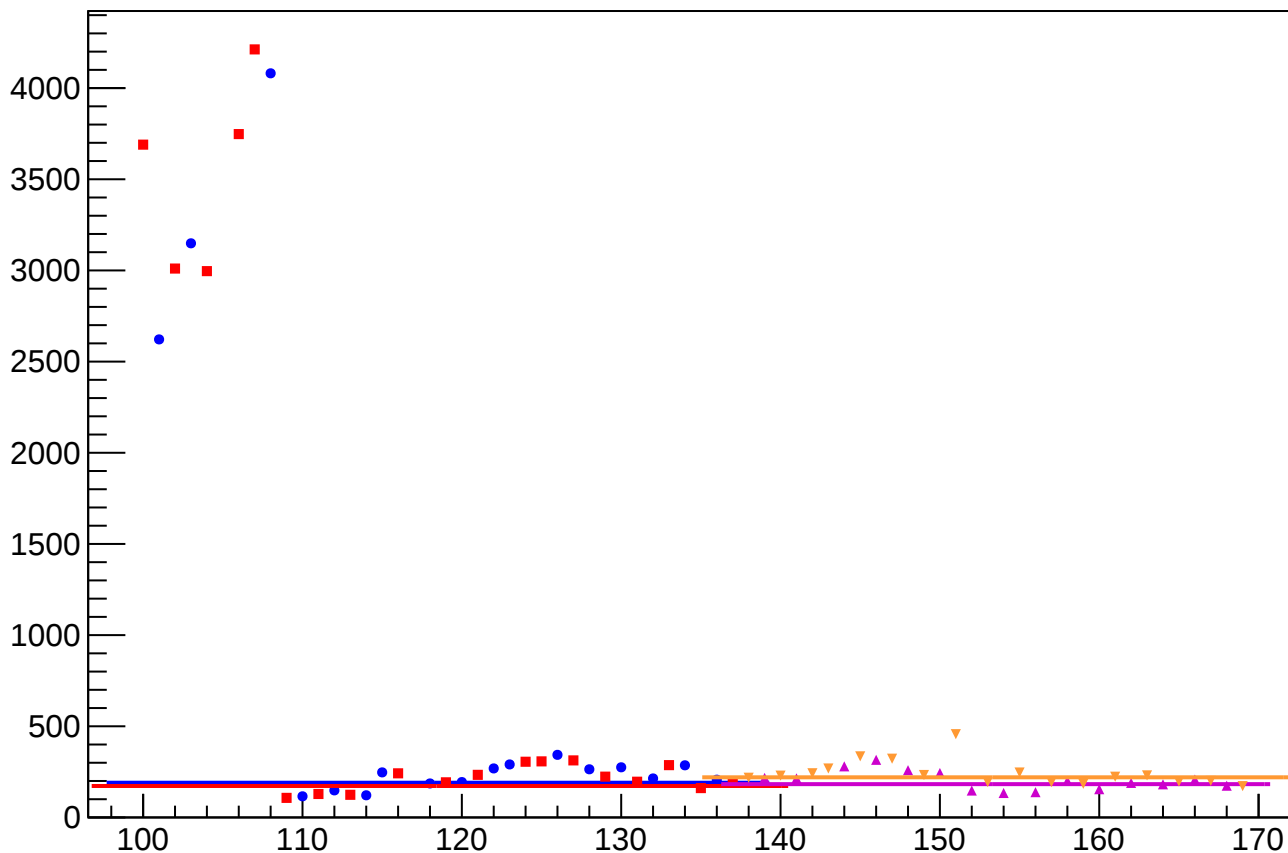
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 59.254+/-47.440 χ^2/NDF : 18.2/31

Out: -3.251+/-50.180 χ^2/NDF : 18.2/35

All: 29.754+/-34.473 χ^2/NDF : 37.2/67

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: 220.173+/-0.045 χ^2/NDF :1094432.2/16

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: 199.085+/-0.030 χ^2/NDF : 2779403.9/31

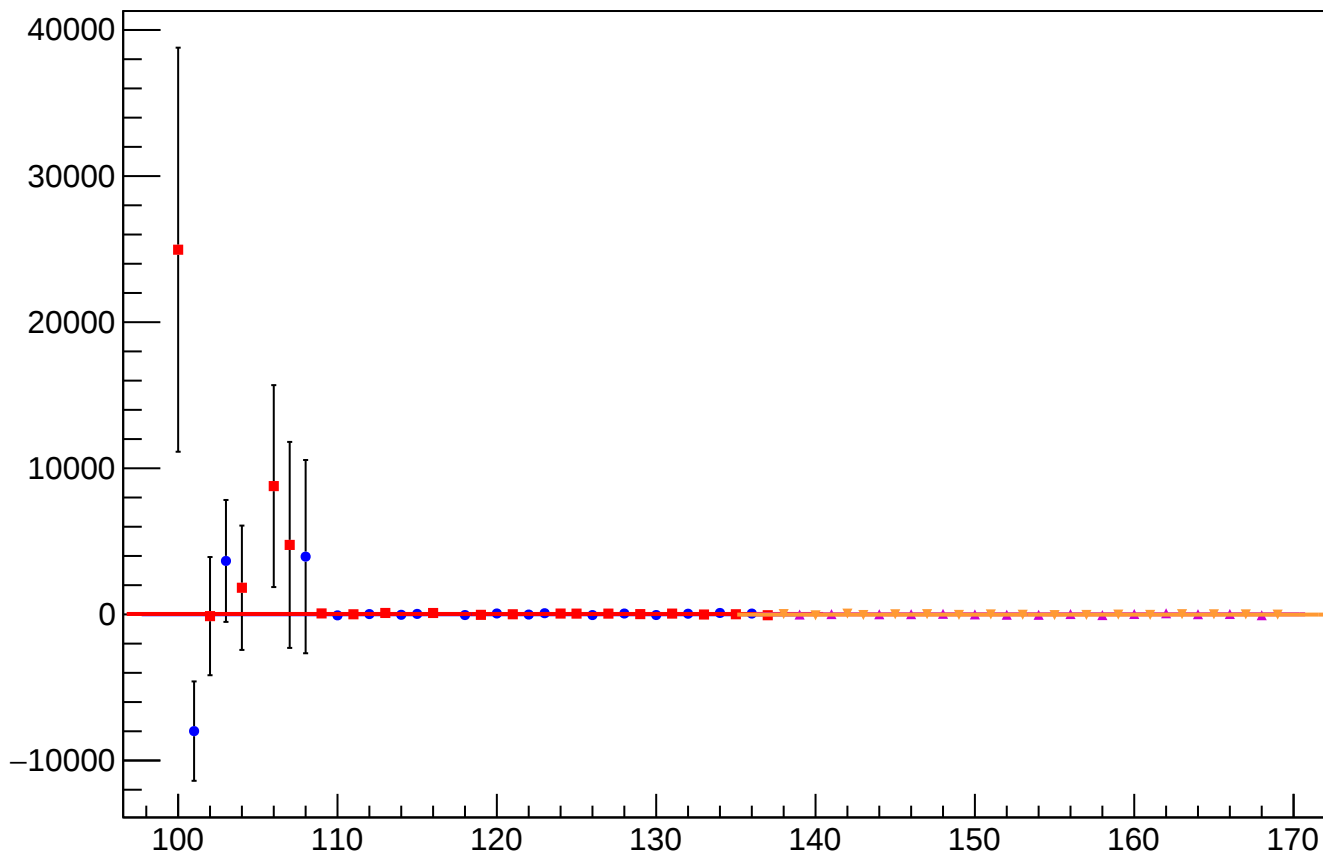
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 184.999+/-0.034 χ^2/NDF :4895148.0/31

Out: 201.753+/-0.035 χ^2/NDF :5739331.9/35

All: 192.906+/-0.024 χ^2/NDF : 10752203.7/67

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: -13.679+/-8.212 χ^2/NDF :10.6/16

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: -3.696+/-5.920 χ^2/NDF : 31.0/31

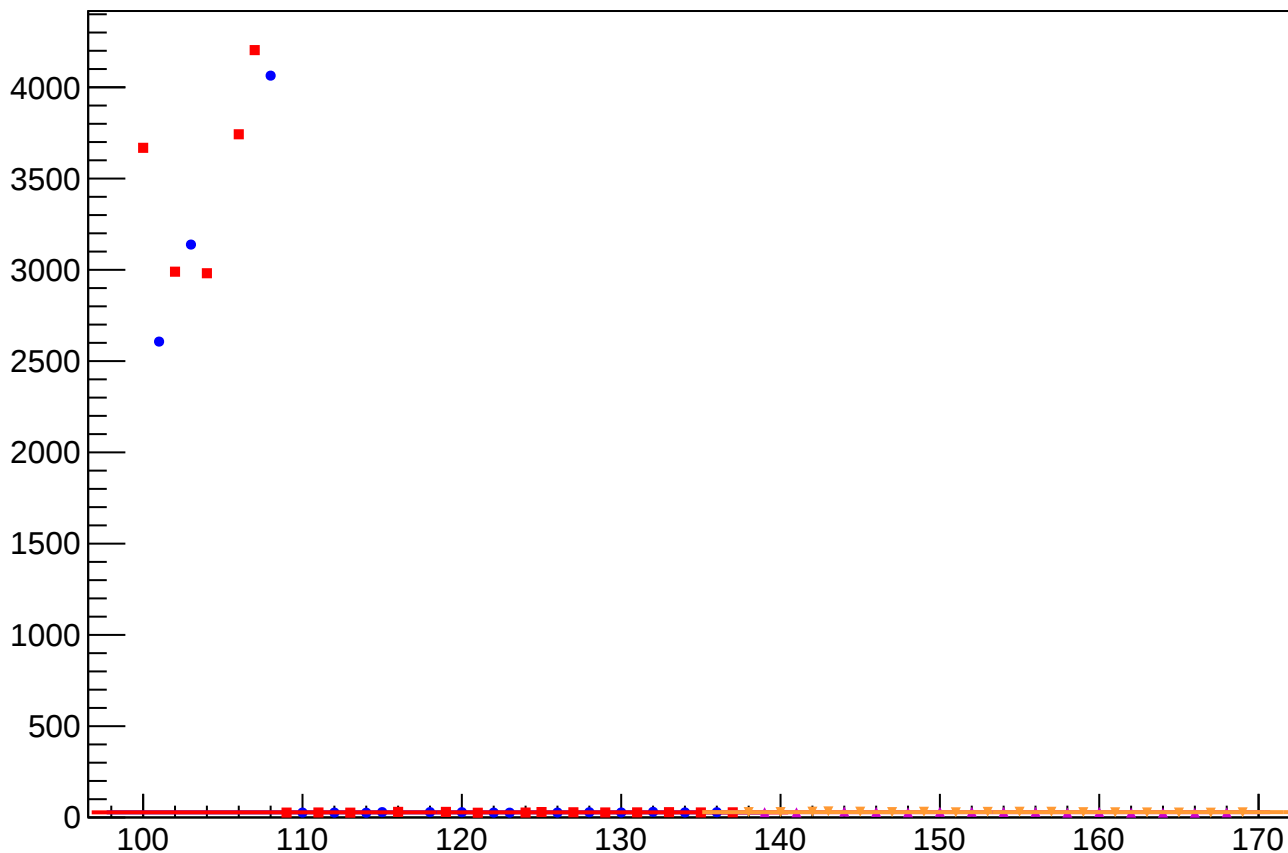
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 7.924+/-7.012 χ^2/NDF :40.7/31

Out: -0.370+/-6.834 χ^2/NDF :35.6/35

All: 3.670+/-4.894 χ^2/NDF : 77.0/67

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: 29.155+/-0.006 χ^2/NDF :99497.7/16

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: 29.130+/-0.004 χ^2/NDF : 208265.7/31

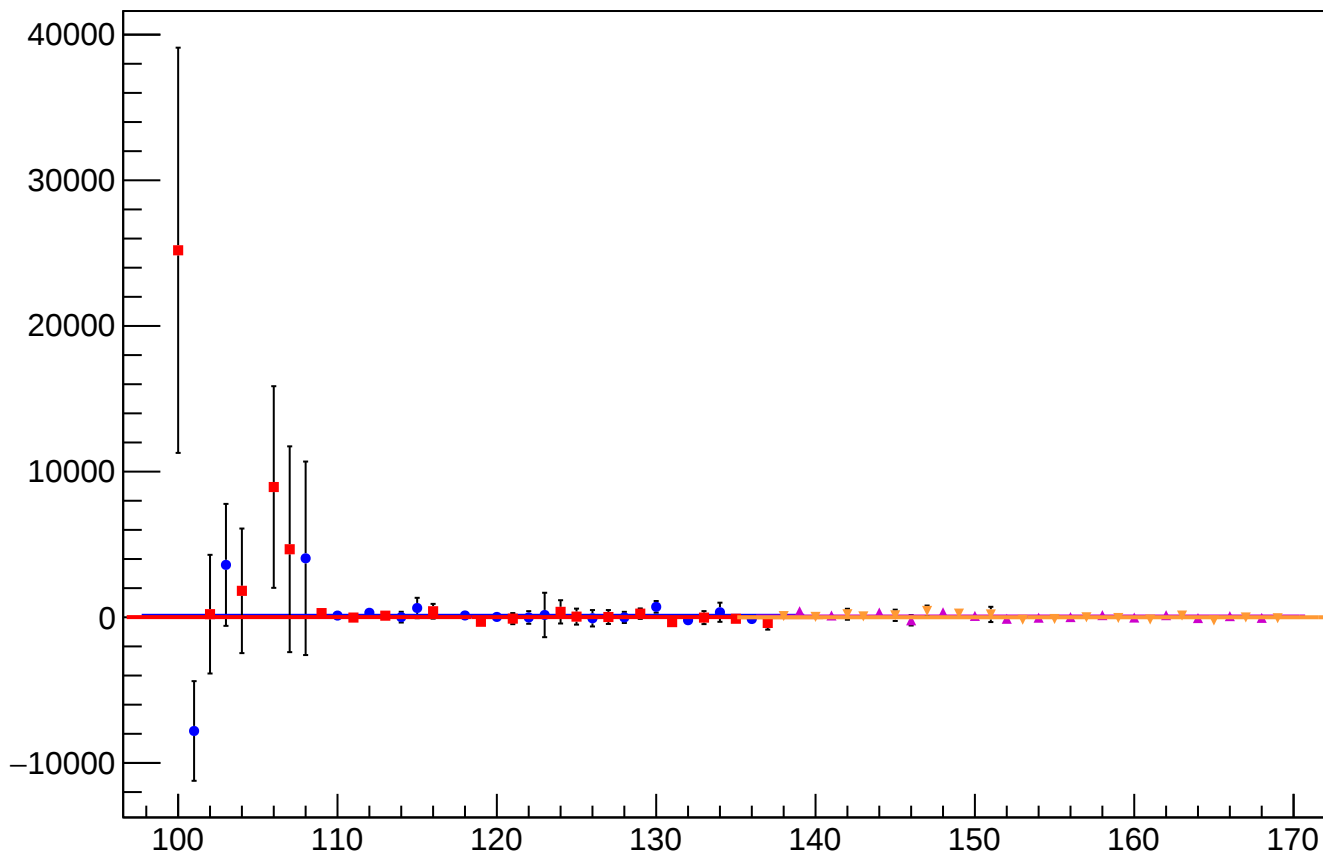
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.750+/-0.005 χ^2/NDF :3146164.5/31

Out: 28.774+/-0.005 χ^2/NDF :3593069.0/35

All: 28.763+/-0.003 χ^2/NDF : 6739245.5/67

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: 0.598 $\pm$ 64.851 χ^2 /NDF:5.1/16

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: 30.721 $\pm$ 42.939 χ^2 /NDF: 11.5/31

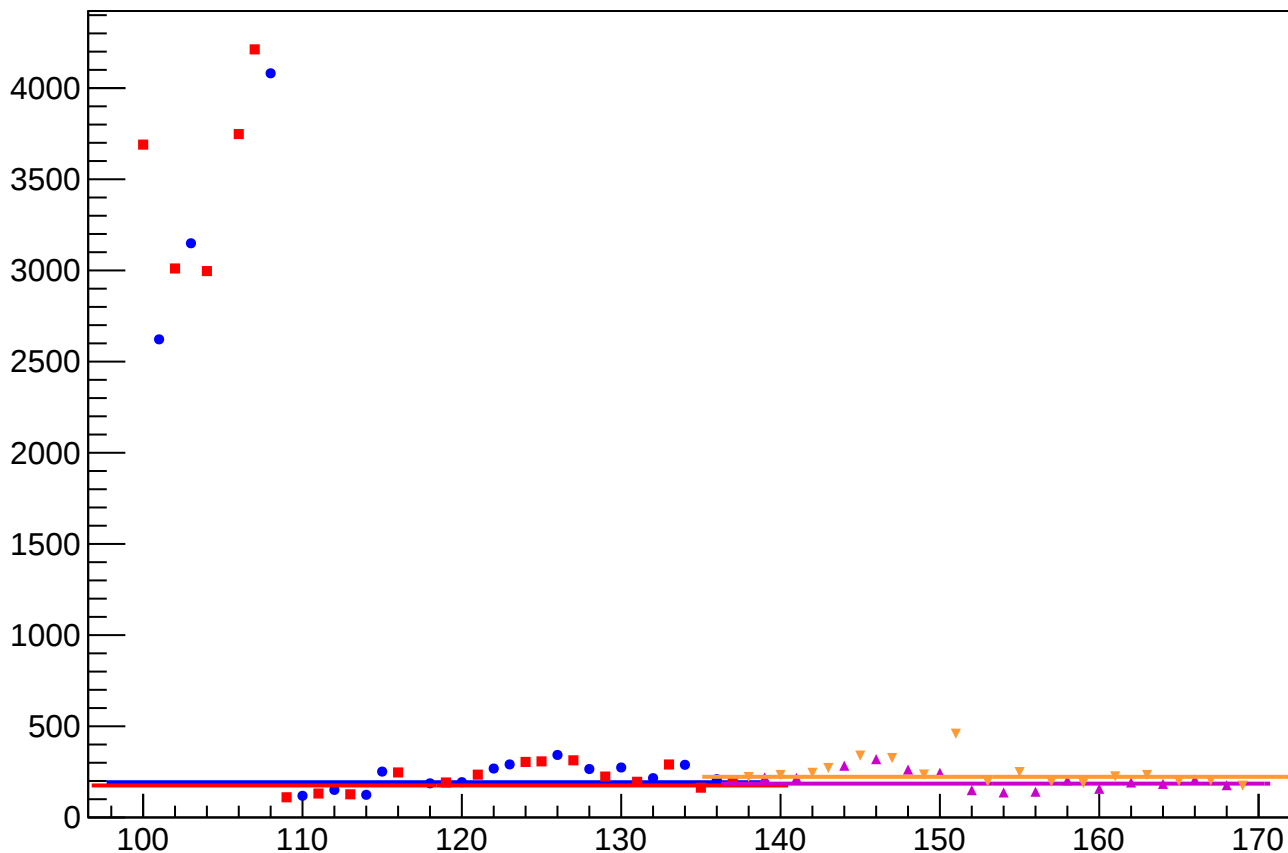
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 68.301 $\pm$ 48.080 χ^2 /NDF:18.6/31

Out: 4.706 $\pm$ 50.801 χ^2 /NDF:17.4/35

All: 38.252 $\pm$ 34.920 χ^2 /NDF: 36.8/67

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: 222.852+/-0.046 χ^2/NDF : 1082978.1/16

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: 201.870+/-0.030 χ^2/NDF : 2727514.5/31

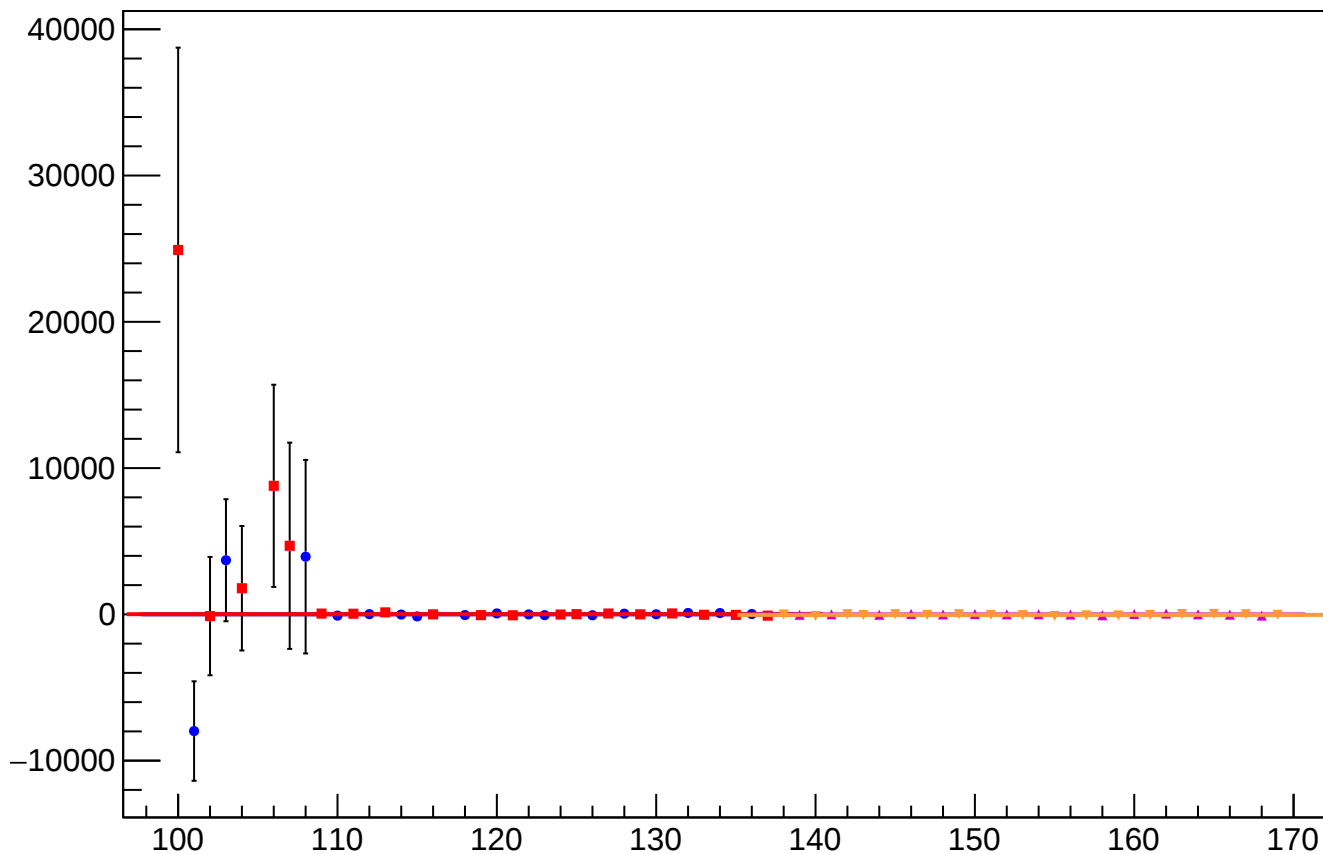
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 187.769+/-0.034 χ^2/NDF : 4818548.4/31

Out: 204.551+/-0.036 χ^2/NDF : 5660610.5/35

All: 195.699+/-0.025 χ^2/NDF : 10594296.6/67

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: -32.292+/-9.759 χ^2/NDF :18.3/16

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: -18.577+/-7.040 χ^2/NDF : 34.3/31

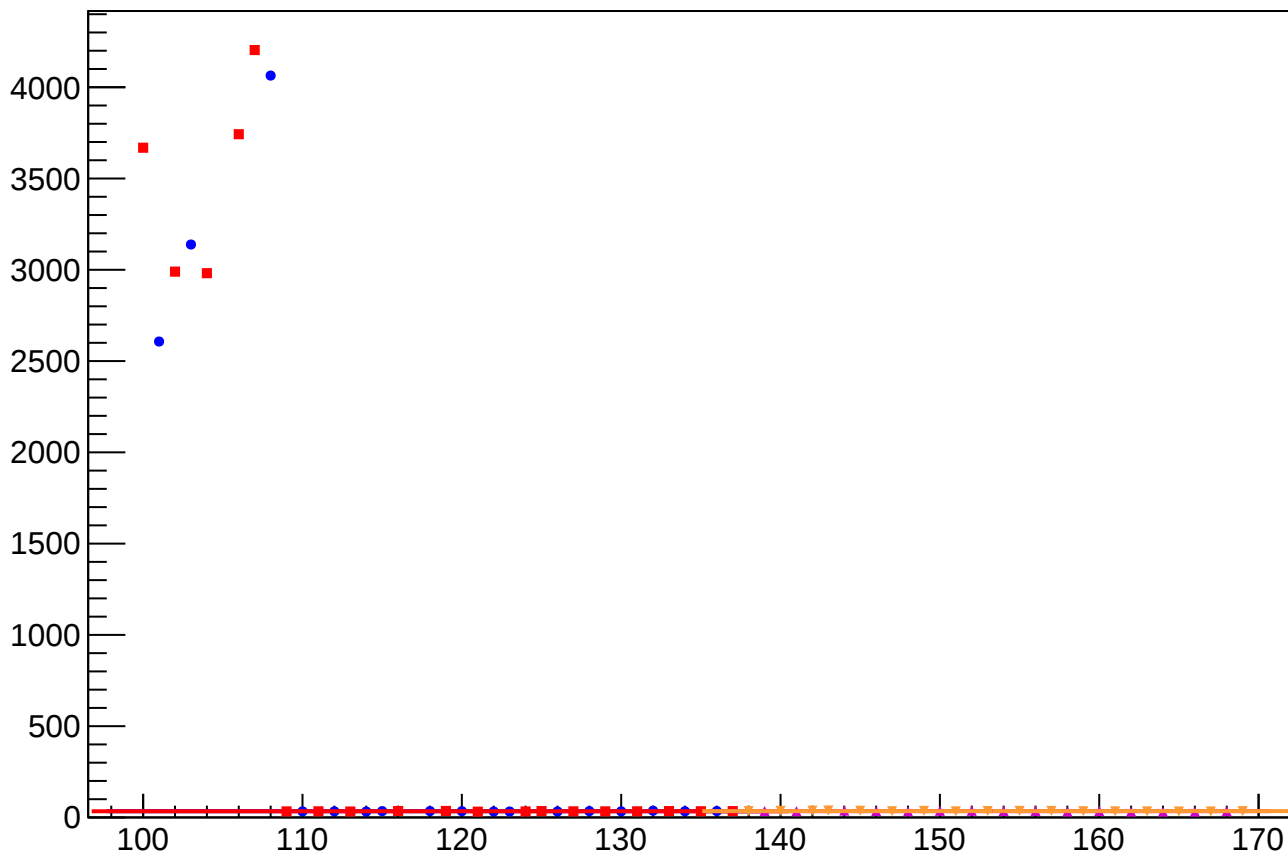
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -1.055+/-8.403 χ^2/NDF :32.4/31

Out: -18.908+/-8.172 χ^2/NDF :46.3/35

All: -10.231+/-5.858 χ^2/NDF : 81.1/67

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: 34.711 $\pm$ 0.007 χ^2 /NDF:46778.7/16

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: 34.702 $\pm$ 0.005 χ^2 /NDF: 98193.9/31

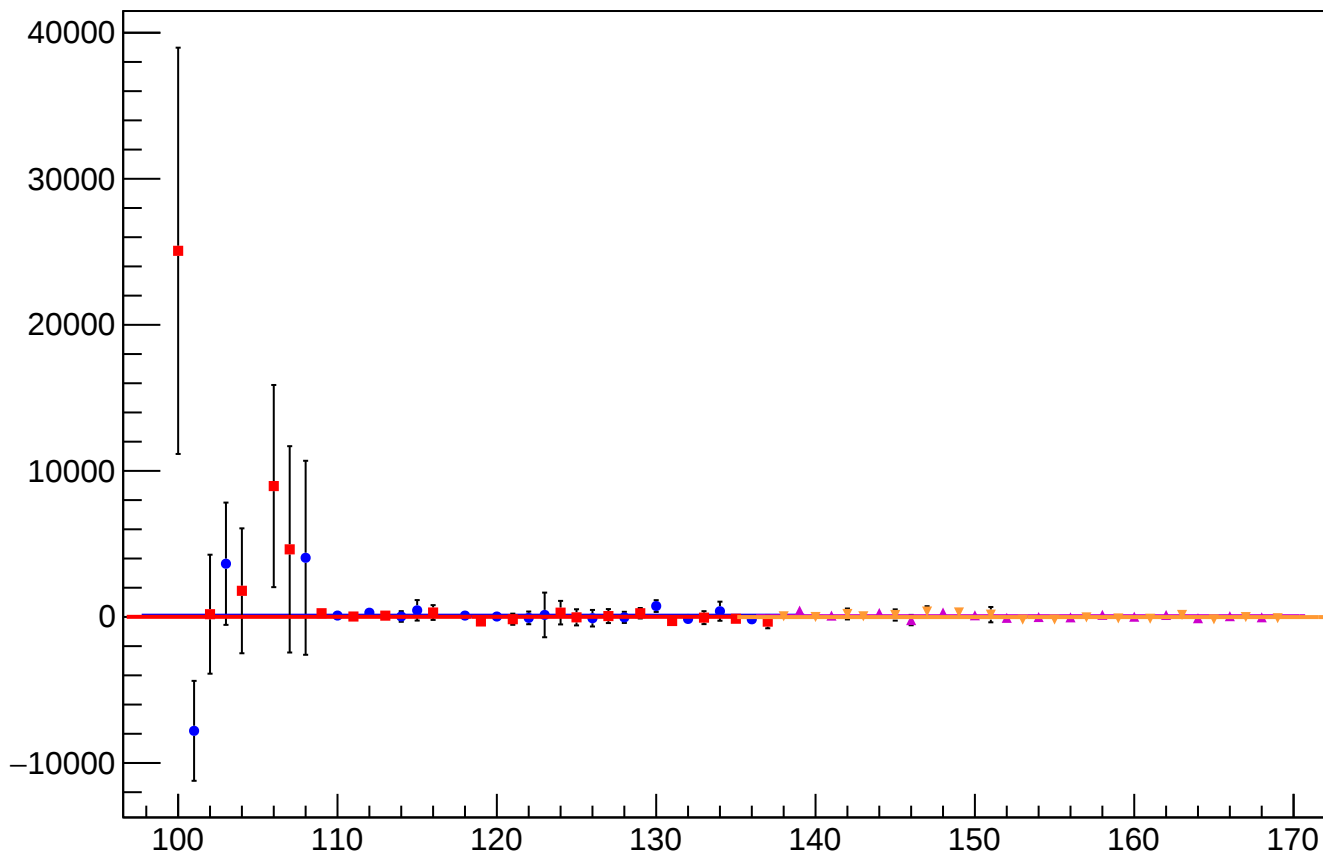
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.517 $\pm$ 0.006 χ^2 /NDF:3059548.6/31

Out: 34.472 $\pm$ 0.006 χ^2 /NDF:3502666.3/35

All: 34.494 $\pm$ 0.004 χ^2 /NDF: 6562243.8/67

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: -10.506 $\pm$ 64.721 χ^2 /NDF:5.3/16

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: 25.089 $\pm$ 42.835 χ^2 /NDF: 11.2/31

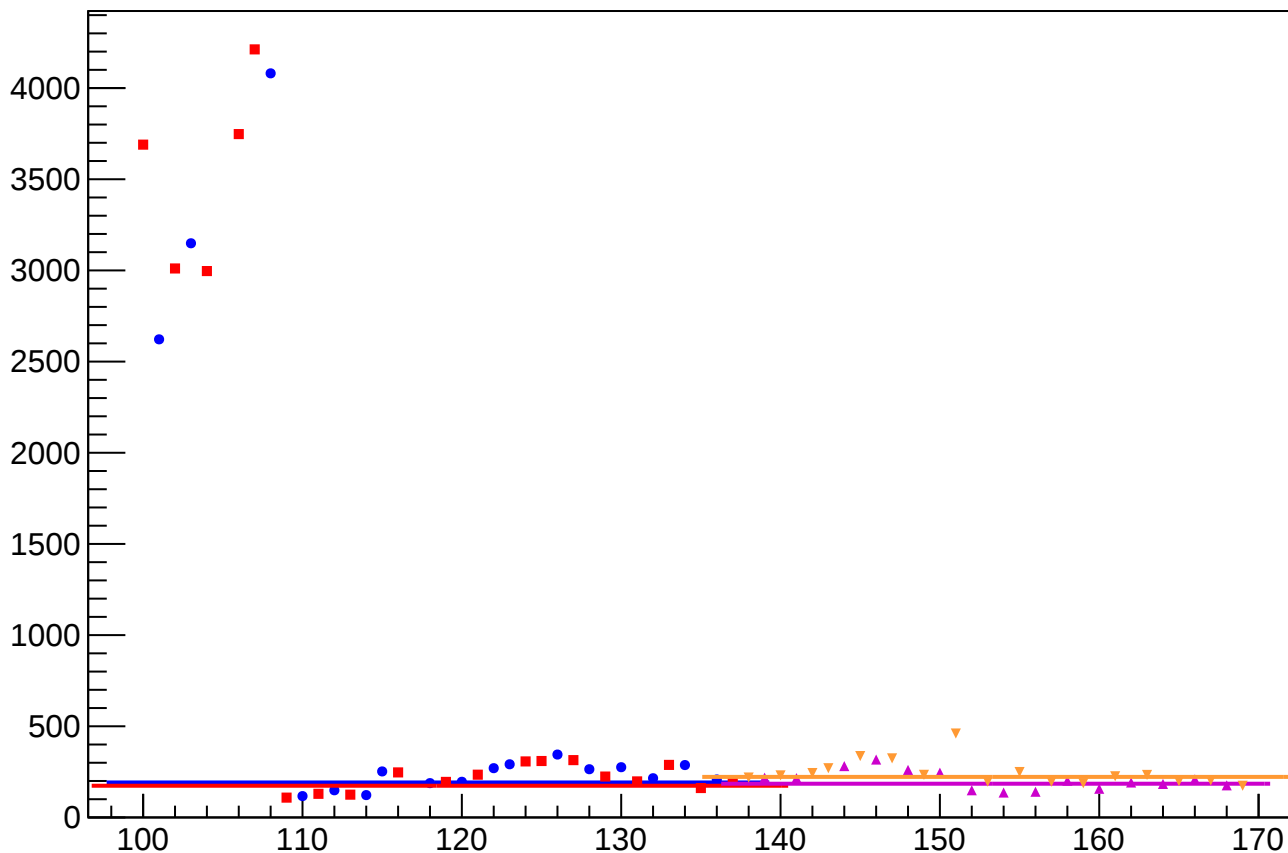
Right: 43.536 $\pm$ 59.663 χ^2 /NDF: 23.9/35

In: 62.691 $\pm$ 47.916 χ^2 /NDF:17.9/31

Out: -3.591 $\pm$ 50.613 χ^2 /NDF:16.4/35

All: 31.363 $\pm$ 34.796 χ^2 /NDF: 35.2/67

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: 222.427+/-0.046 χ^2/NDF :1073827.2/16

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: 201.388+/-0.030 χ^2/NDF : 2709277.0/31

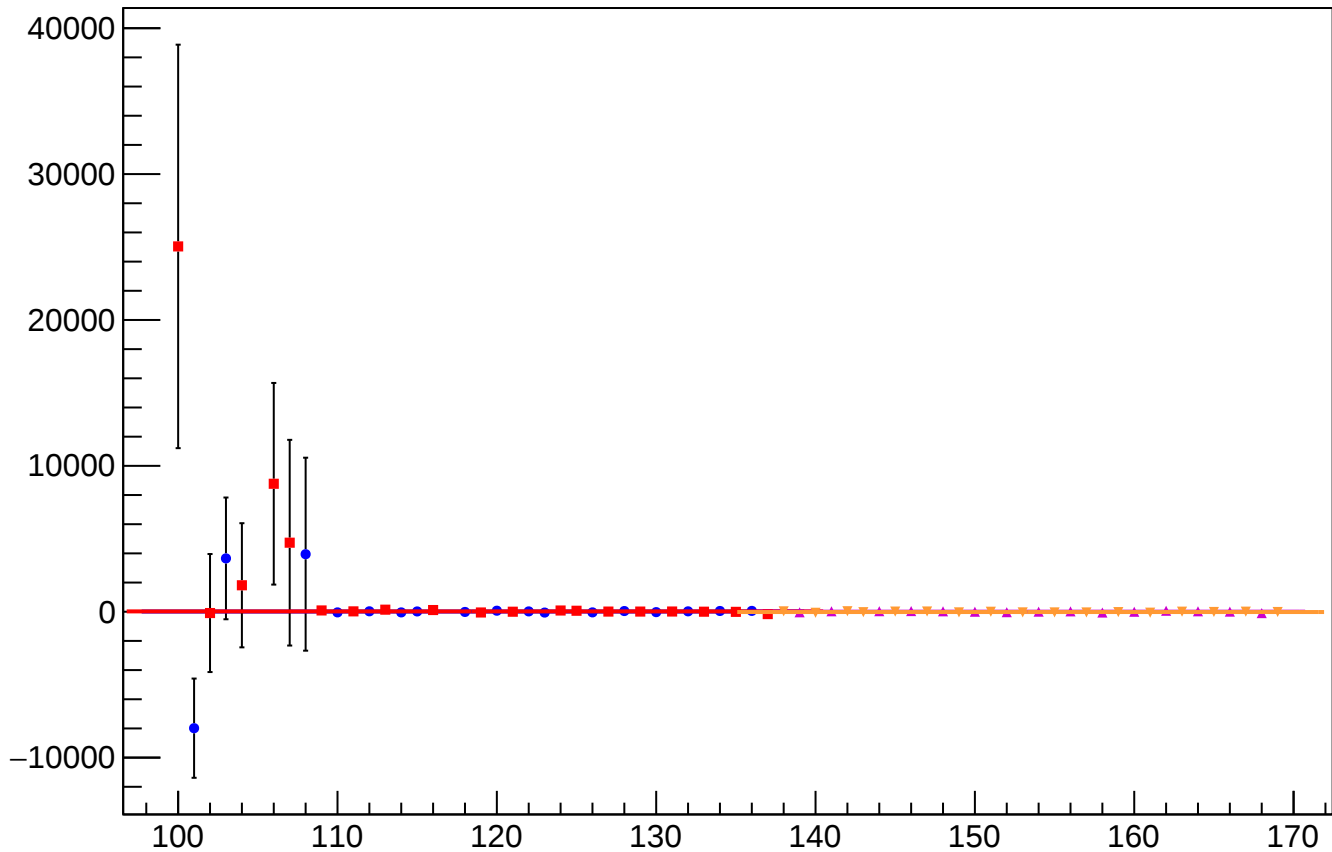
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.035+/-0.034 χ^2/NDF :4841094.8/31

Out: 203.587+/-0.036 χ^2/NDF :5721454.0/35

All: 194.858+/-0.025 χ^2/NDF : 10675354.3/67

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: -20.236+/-8.852 χ^2/NDF : 11.6/16

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: -8.755+/-6.380 χ^2/NDF : 36.9/31

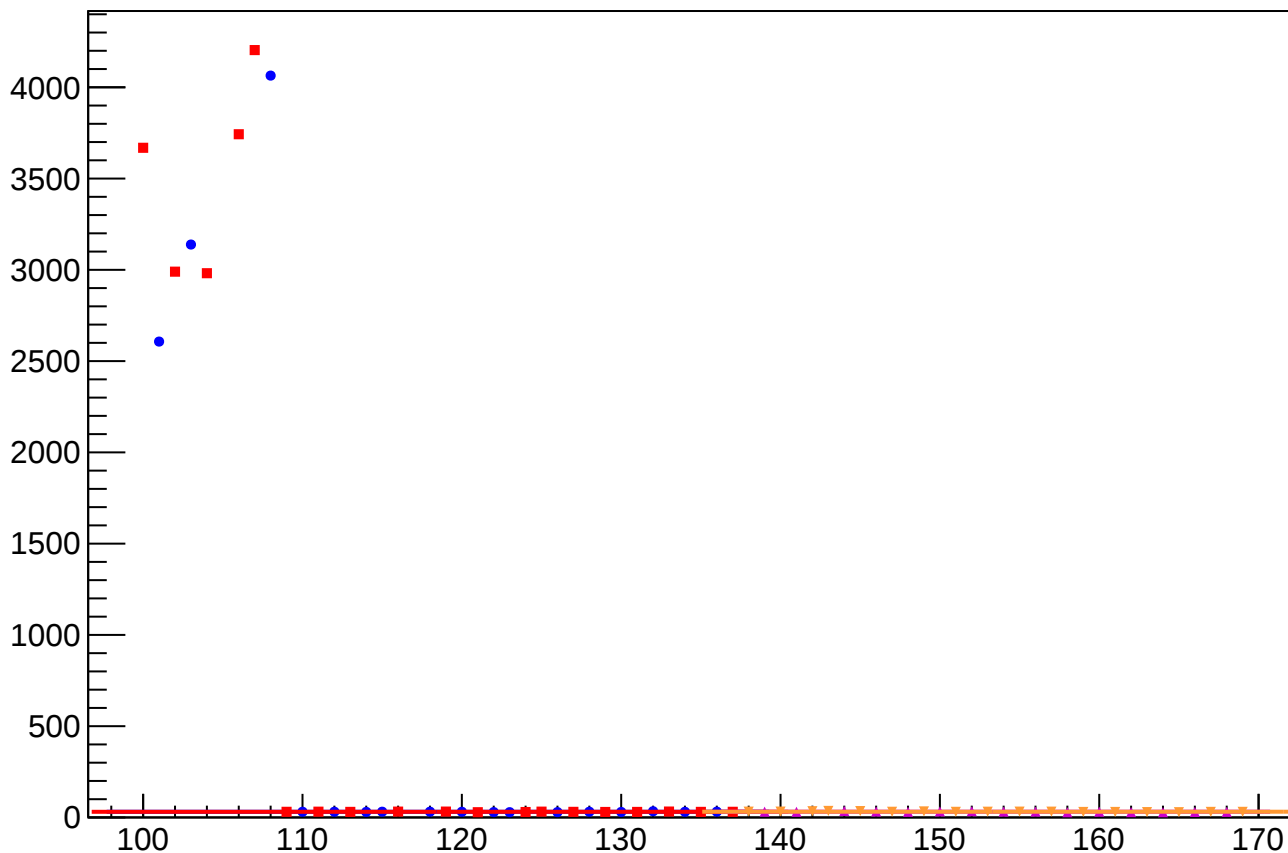
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 6.941+/-7.626 χ^2/NDF : 37.4/31

Out: -7.333+/-7.428 χ^2/NDF : 46.3/35

All: -0.384+/-5.321 χ^2/NDF : 85.4/67

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: 31.453 $\pm$ 0.006 χ^2 /NDF: 72802.0/16

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: 31.413 $\pm$ 0.005 χ^2 /NDF: 153135.9/31

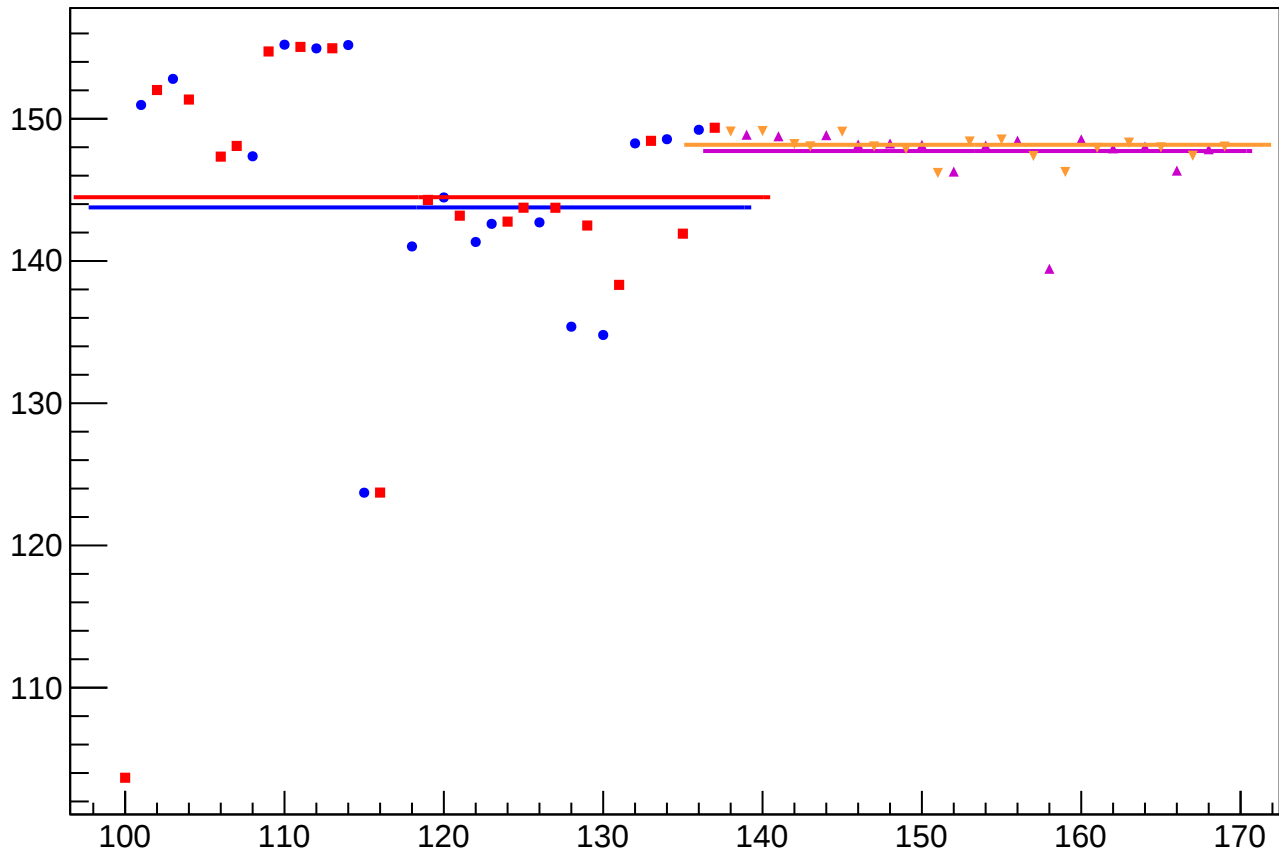
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.293 $\pm$ 0.005 χ^2 /NDF: 3095110.7/31

Out: 31.308 $\pm$ 0.005 χ^2 /NDF: 3533556.9/35

All: 31.301 $\pm$ 0.004 χ^2 /NDF: 6628671.3/67

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768+/-0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.171+/-0.000 χ^2/NDF : 52502830.6/16

Right Out: 144.486+/-0.000 χ^2/NDF : 4183608291.3/18

Left In: 147.732+/-0.000 χ^2/NDF : 324068147.4/14

Left: 147.962+/-0.000 χ^2/NDF : 383356677.5/31

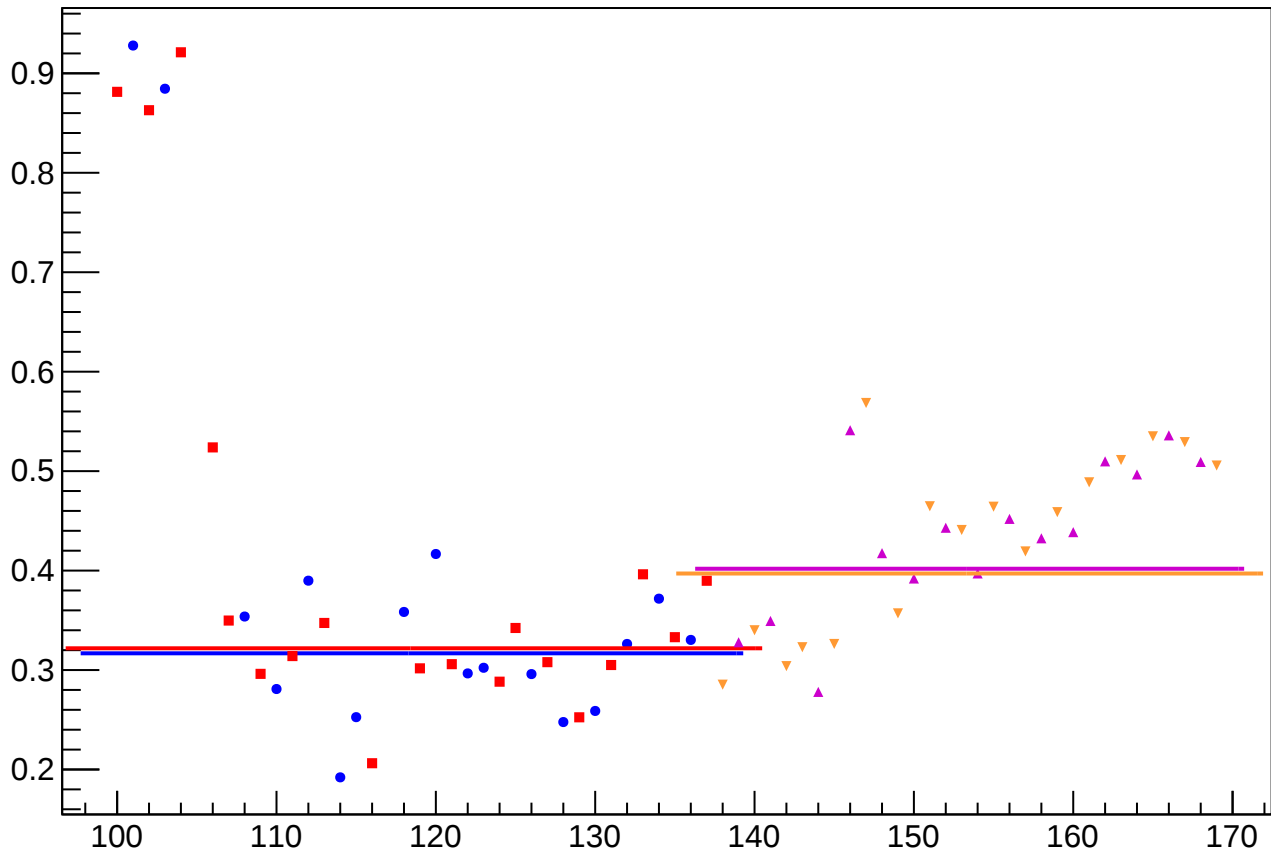
Right: 144.130+/-0.000 χ^2/NDF : 7730221597.0/35

In: 145.937+/-0.000 χ^2/NDF : 4334645252.5/31

Out: 146.573+/-0.000 χ^2/NDF : 4671369799.1/35

All: 146.264+/-0.000 χ^2/NDF : 9031617252.2

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.397 $\pm$ 0.000 χ^2 /NDF:1111355.6/16

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: 0.399 $\pm$ 0.000 χ^2 /NDF: 1955020.4/31

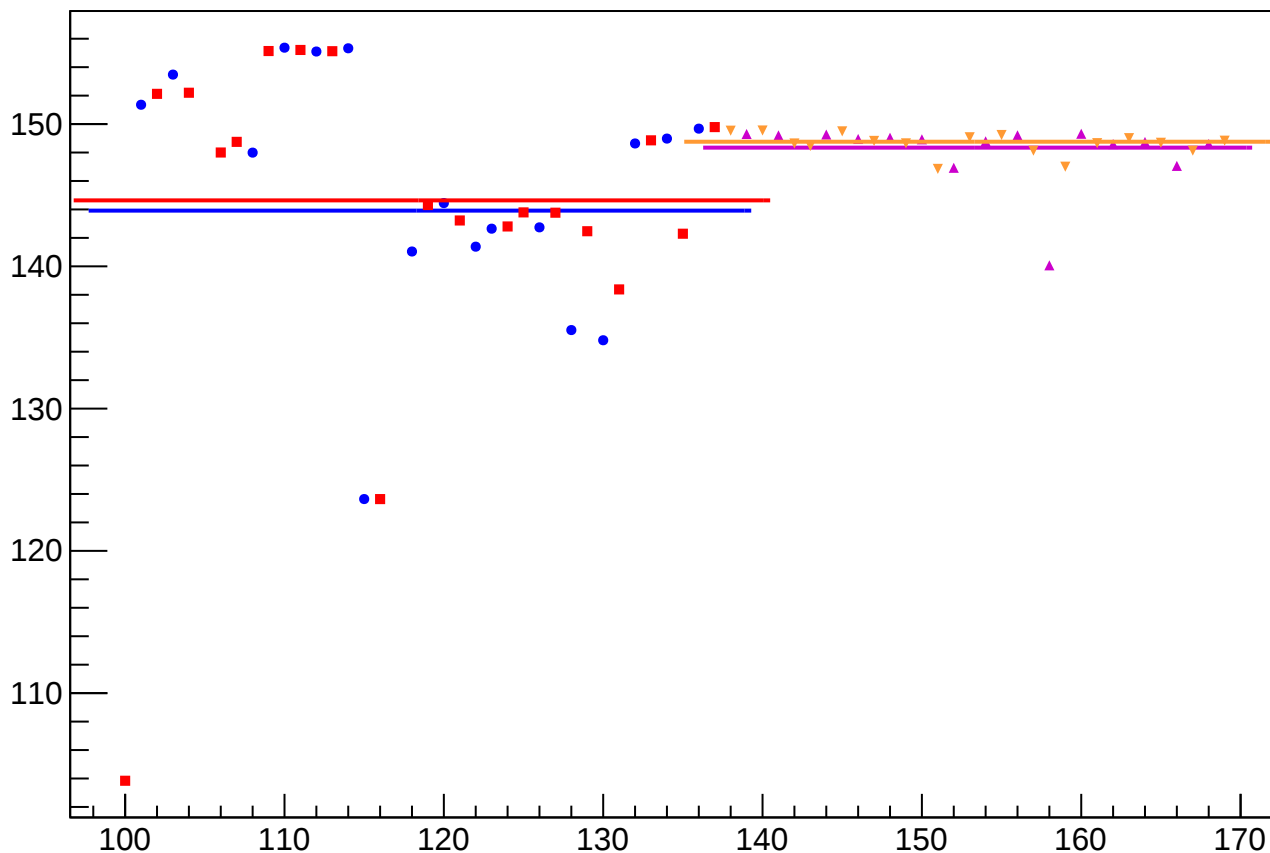
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.363 $\pm$ 0.000 χ^2 /NDF:2560981.8/31

Out: 0.364 $\pm$ 0.000 χ^2 /NDF:2691377.8/35

All: 0.364 $\pm$ 0.000 χ^2 /NDF: 5252514.4/67

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917+/-0.000

χ^2/NDF : 3584662767.5/16

Left Out: 148.759+/-0.000

χ^2/NDF : 40963361.5/16

Right Out: 144.637+/-0.000

χ^2/NDF : 4210524953.9/18

Left In: 148.343+/-0.000

χ^2/NDF : 313200825.9/14

Left: 148.561+/-0.000

χ^2/NDF : 360122249.9/31

Right: 144.280+/-0.000

χ^2/NDF : 7809567994.8/35

In: 146.328+/-0.000

χ^2/NDF : 4485277442.6/31

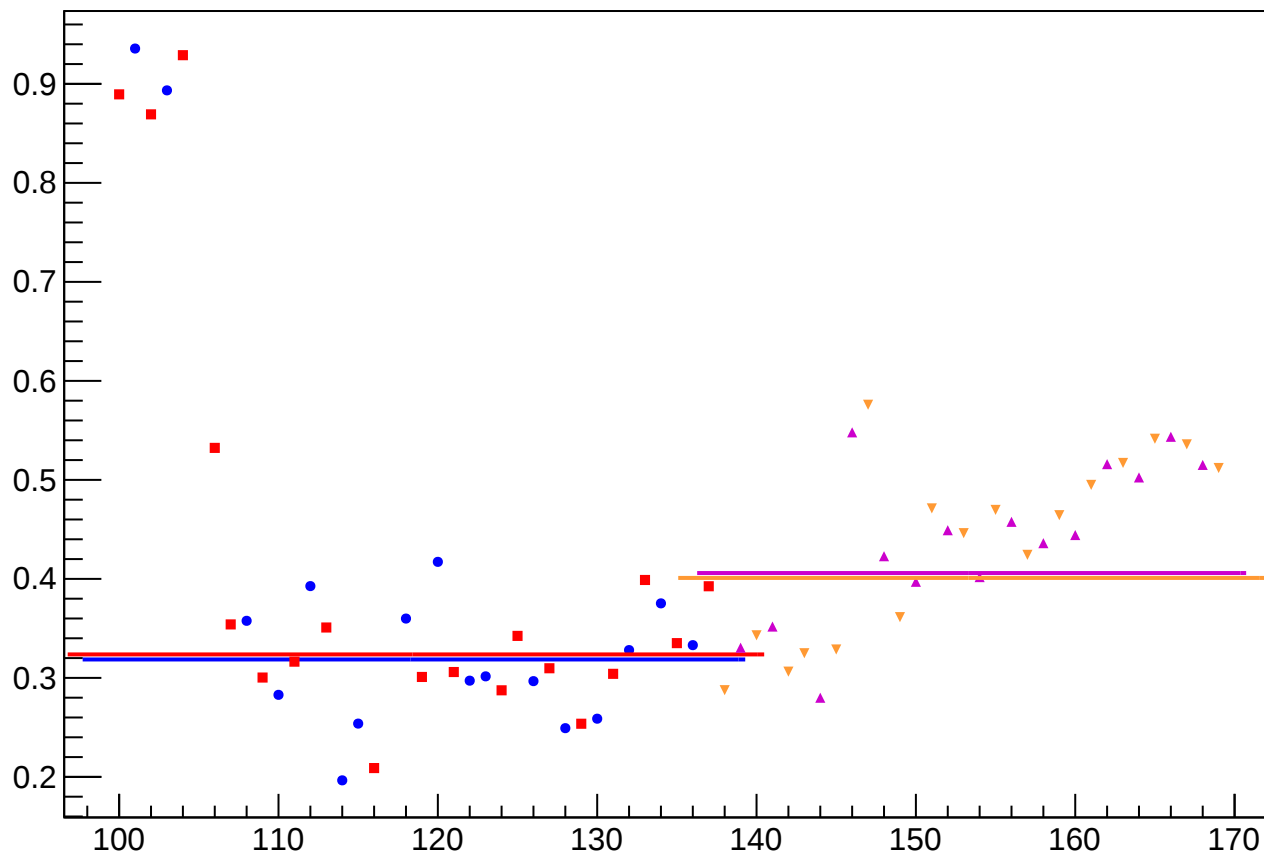
Out: 146.962+/-0.000

χ^2/NDF : 4787677844.7/35

All: 146.655+/-0.000

χ^2/NDF : 9298009561.9

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.401+/-0.000 χ^2/NDF :1131905.0/16

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.406+/-0.000 χ^2/NDF :859267.7/14

Left: 0.403+/-0.000 χ^2/NDF : 1992853.6/31

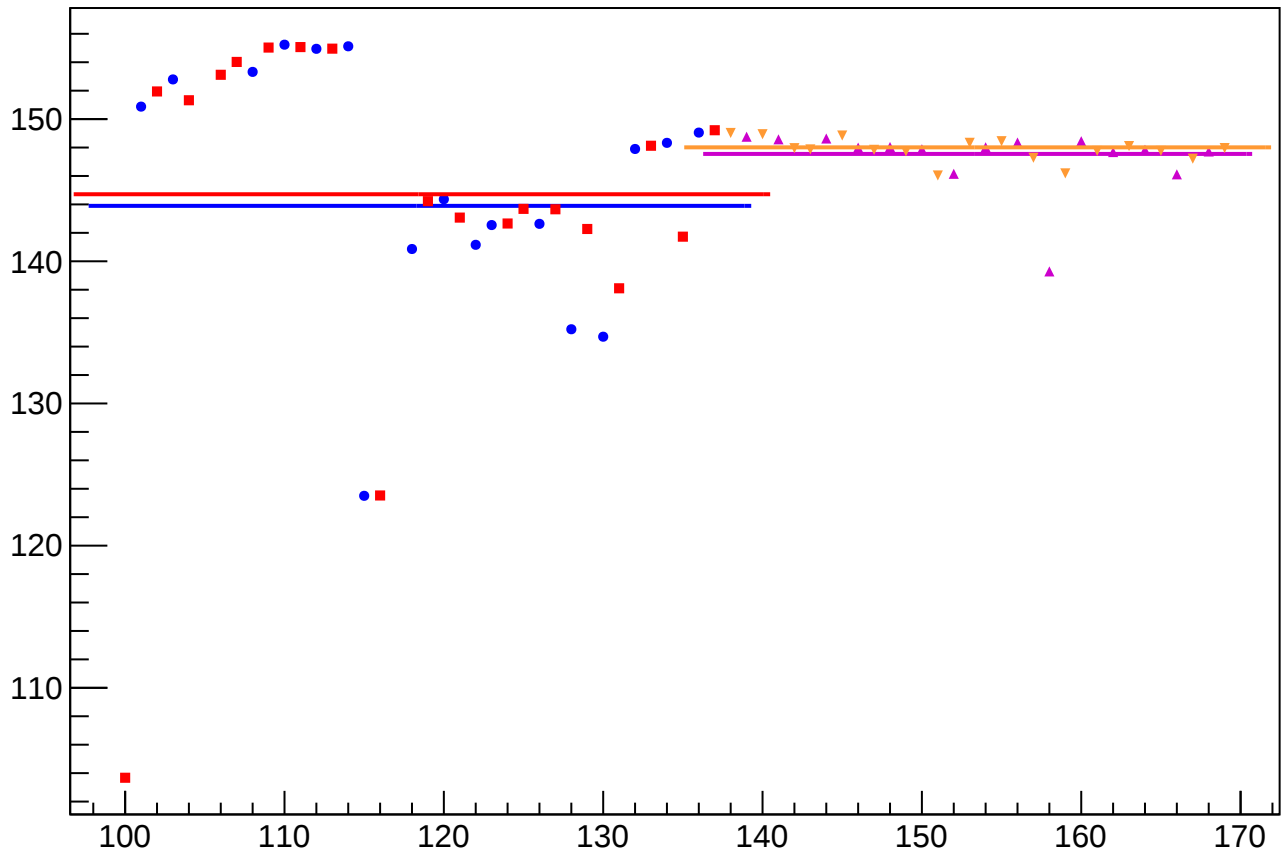
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.366+/-0.000 χ^2/NDF :2596946.3/31

Out: 0.367+/-0.000 χ^2/NDF :2729492.5/35

All: 0.367+/-0.000 χ^2/NDF : 5326599.6/67

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.013 $\pm$ 0.000 χ^2 /NDF: 50932277.6/16

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: 147.793 $\pm$ 0.000 χ^2 /NDF: 381348961.5/31

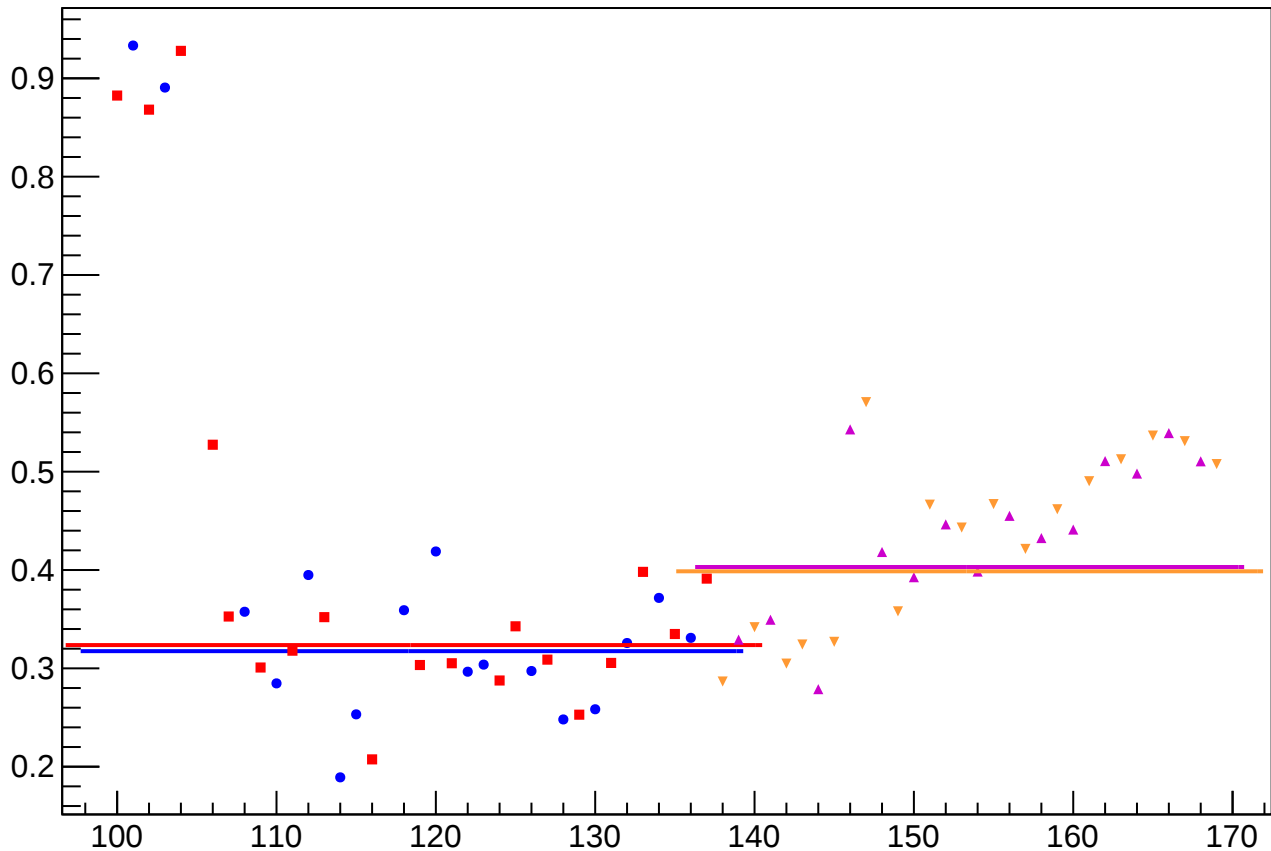
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.897 $\pm$ 0.000 χ^2 /NDF: 4476595827.5/31

Out: 146.585 $\pm$ 0.000 χ^2 /NDF: 4870480611.5/35

All: 146.250 $\pm$ 0.000 χ^2 /NDF: 9376831174.6

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.399+/-0.000 χ^2/NDF : 1112279.6/16

Right Out: 0.324+/-0.000 χ^2/NDF : 1221676.7/18

Left In: 0.403+/-0.000 χ^2/NDF : 846334.7/14

Left: 0.401+/-0.000 χ^2/NDF : 1959956.1/31

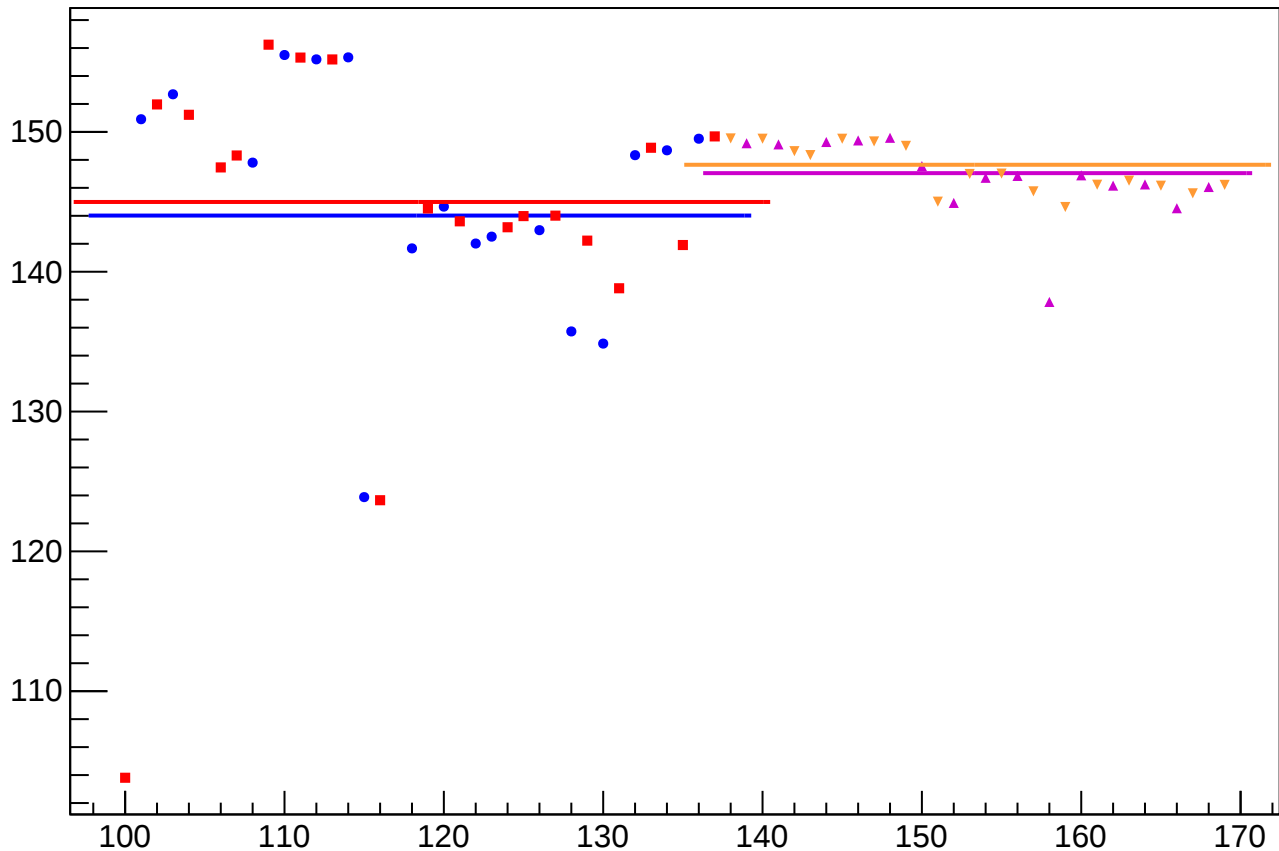
Right: 0.321+/-0.000 χ^2/NDF : 2516974.9/35

In: 0.364+/-0.000 χ^2/NDF : 2582746.2/31

Out: 0.366+/-0.000 χ^2/NDF : 2691084.8/35

All: 0.365+/-0.000 χ^2/NDF : 5274283.0/67

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.651 $\pm$ 0.000 χ^2 /NDF: 195874014.7/16

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: 147.365 $\pm$ 0.000 χ^2 /NDF: 708370682.8/31

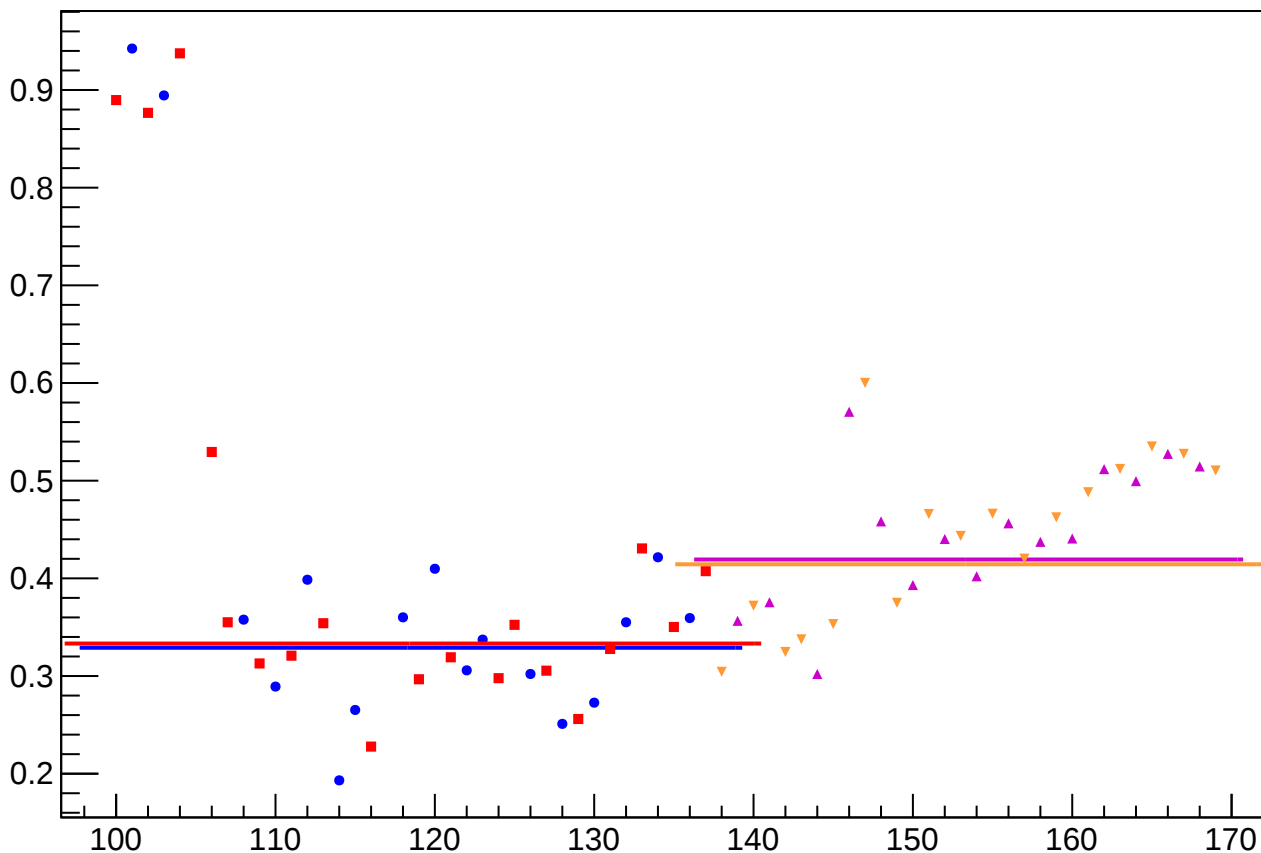
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.680 $\pm$ 0.000 χ^2 /NDF: 3998506340.9/31

Out: 146.492 $\pm$ 0.000 χ^2 /NDF: 4259934817.1/35

All: 146.098 $\pm$ 0.000 χ^2 /NDF: 8297068749.3

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 ± 0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.414 ± 0.000 χ^2/NDF : 865348.5/16

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: 0.417 ± 0.000 χ^2/NDF : 1508436.0/31

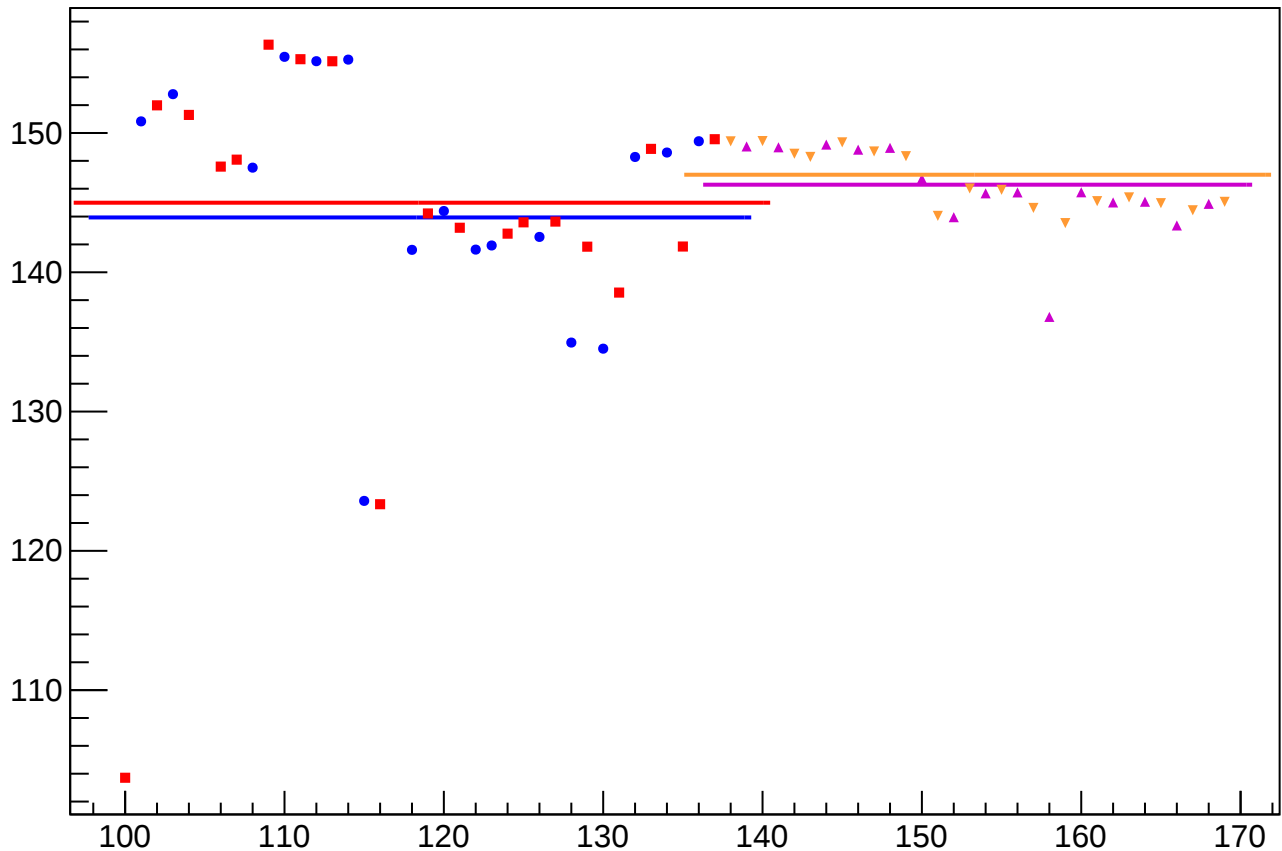
Right: 0.331 ± 0.000 χ^2/NDF : 2459580.1/35

In: 0.378 ± 0.000 χ^2/NDF : 2377131.7/31

Out: 0.379 ± 0.000 χ^2/NDF : 2439470.3/35

All: 0.379 ± 0.000 χ^2/NDF : 4816644.7/67

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2/NDF : 3379203532.9/16

Left Out: 147.004 $\pm$ 0.000 χ^2/NDF : 302124989.4/16

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: 146.663 $\pm$ 0.000 χ^2/NDF : 936513693.3/31

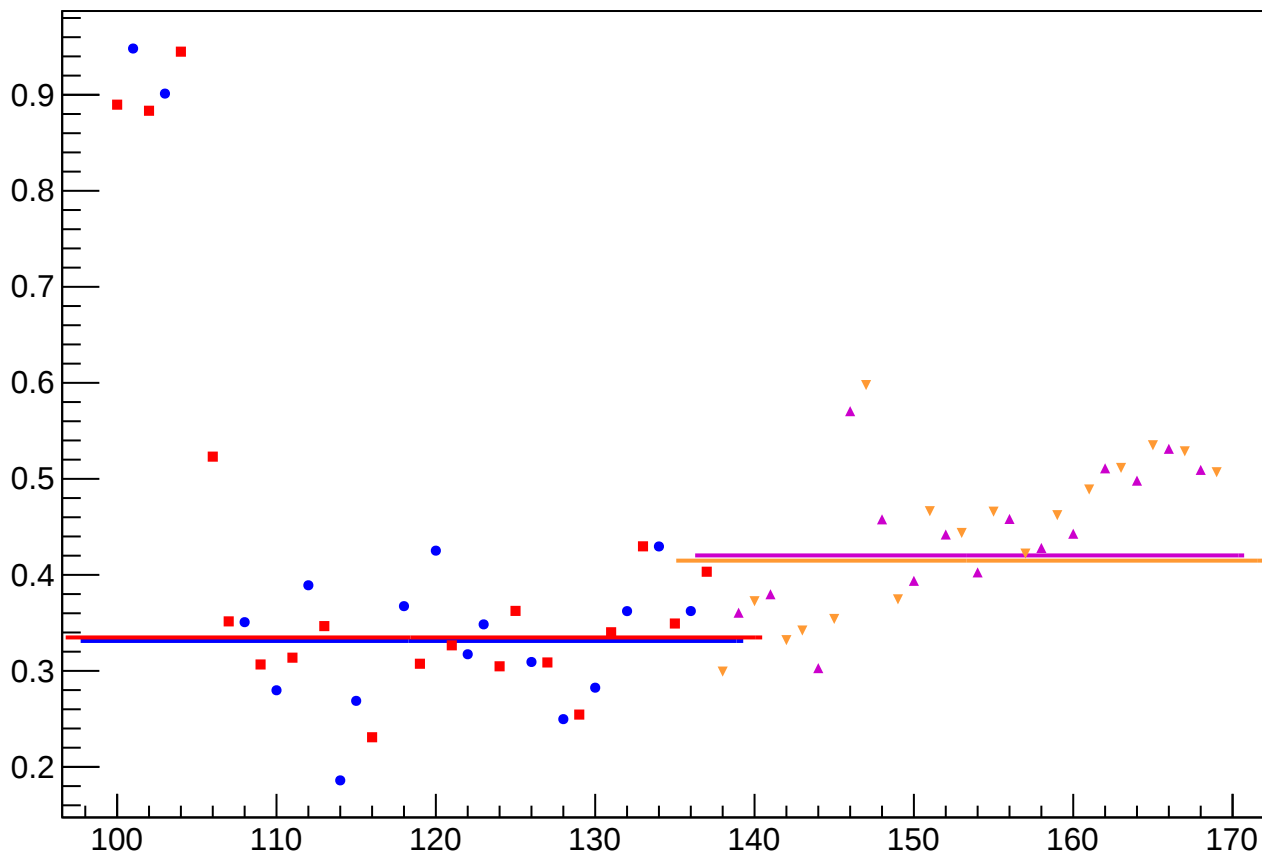
Right: 144.474 $\pm$ 0.000 χ^2/NDF : 7341982360.6/35

In: 145.232 $\pm$ 0.000 χ^2/NDF : 4150730486.9/31

Out: 146.132 $\pm$ 0.000 χ^2/NDF : 4355351693.5/35

All: 145.697 $\pm$ 0.000 χ^2/NDF : 8553224170.6

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.415+/-0.000 χ^2/NDF : 860025.0/16

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: 0.417+/-0.000 χ^2/NDF : 1481490.5/31

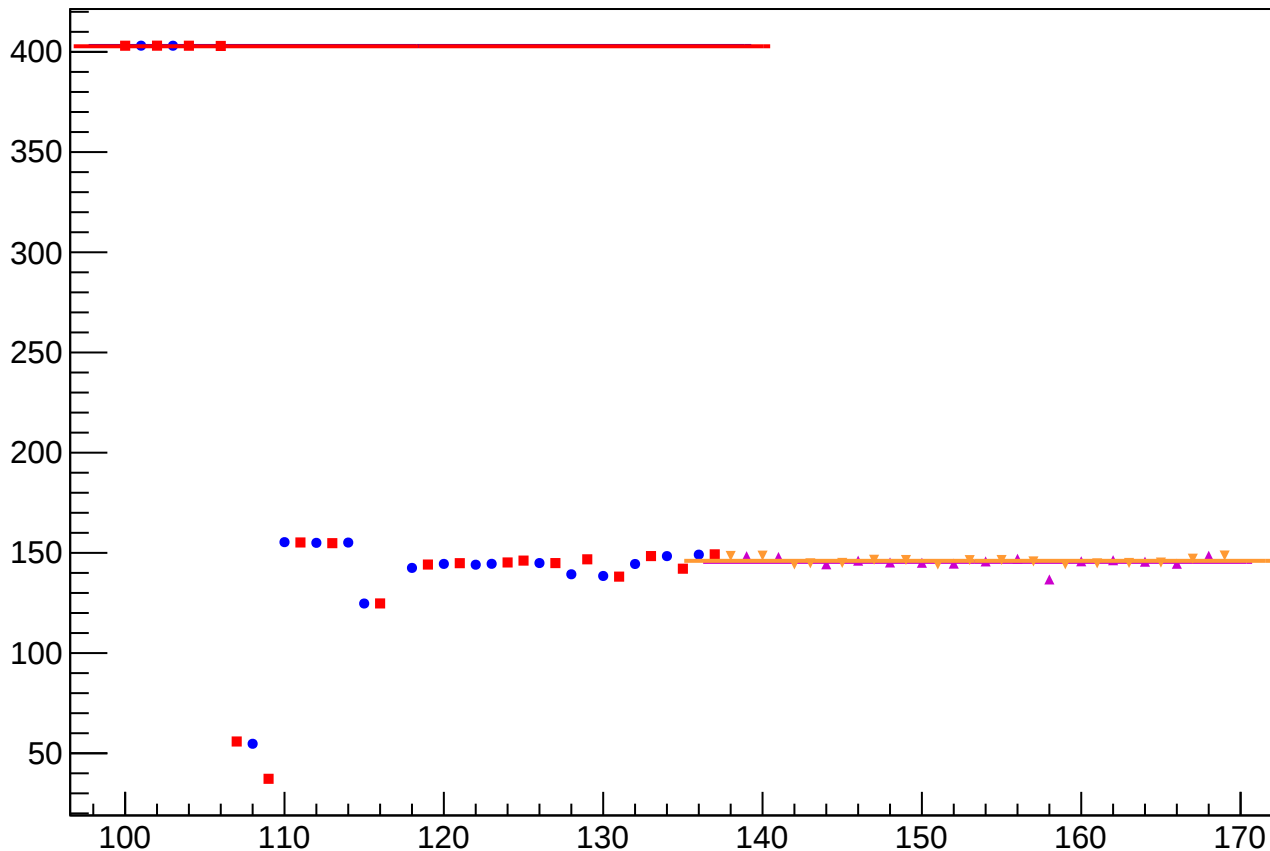
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.380+/-0.000 χ^2/NDF : 2356737.2/31

Out: 0.380+/-0.000 χ^2/NDF : 2410122.1/35

All: 0.380+/-0.000 χ^2/NDF : 4766860.5/67

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1096710296821.6/16

Left: 145.780+/-0.000

χ^2/NDF : 210289053.6/31

Left Out: 146.035+/-0.000

χ^2/NDF : 59381314.4/16

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 : 2646940175979.4/31

Left In: 145.504+/-0.000

χ^2/NDF : 147491715.4/14

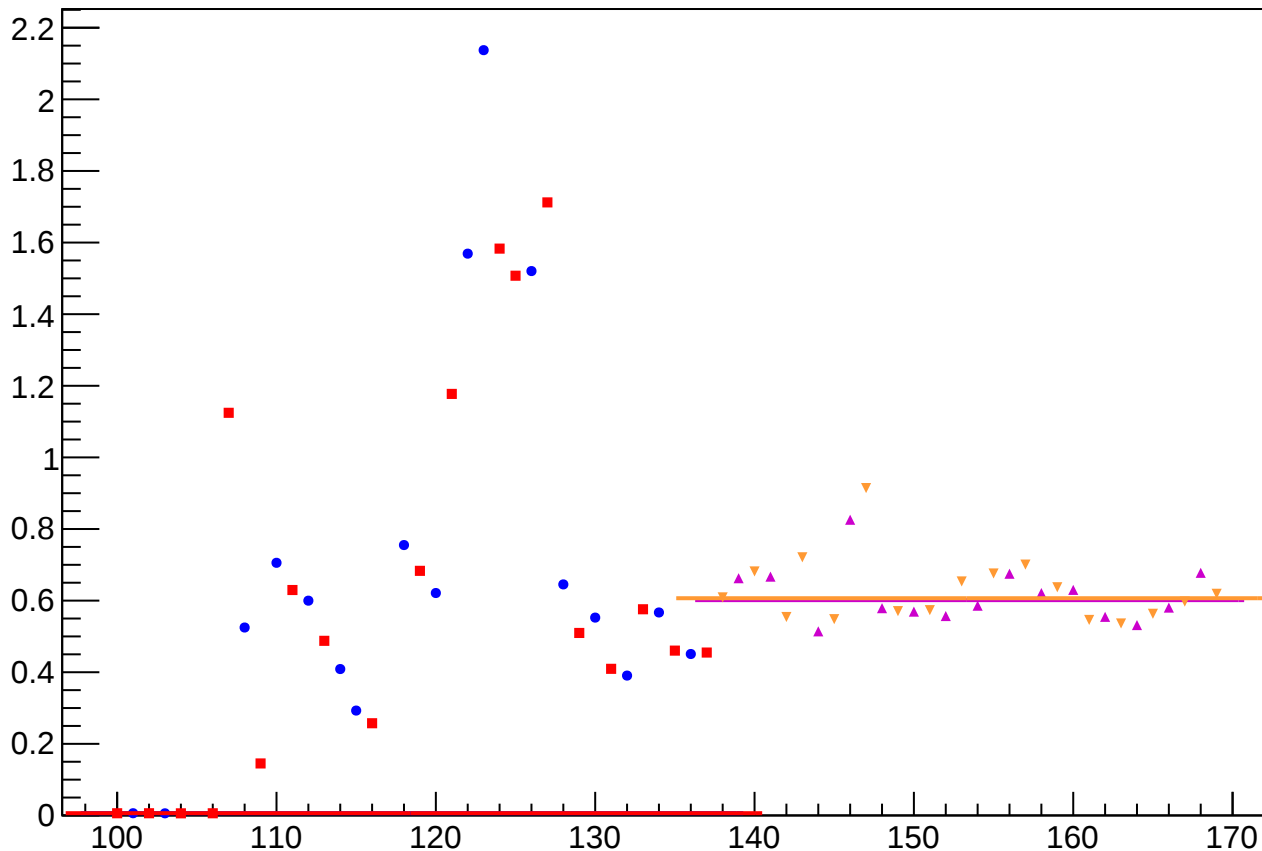
Out: 402.615+/-0.000

χ^2/NDF : 4763871830533.4/31

All: 402.685+/-0.000

χ^2/NDF : 741117825994.4/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9161050.1/16

Left Out: 0.607 $\pm$ 0.000 χ^2 /NDF:256192.3/16

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 9212402.0/18

Left In: 0.601 $\pm$ 0.000 χ^2 /NDF:210022.5/14

Left: 0.604 $\pm$ 0.000 χ^2 /NDF: 466896.0/31

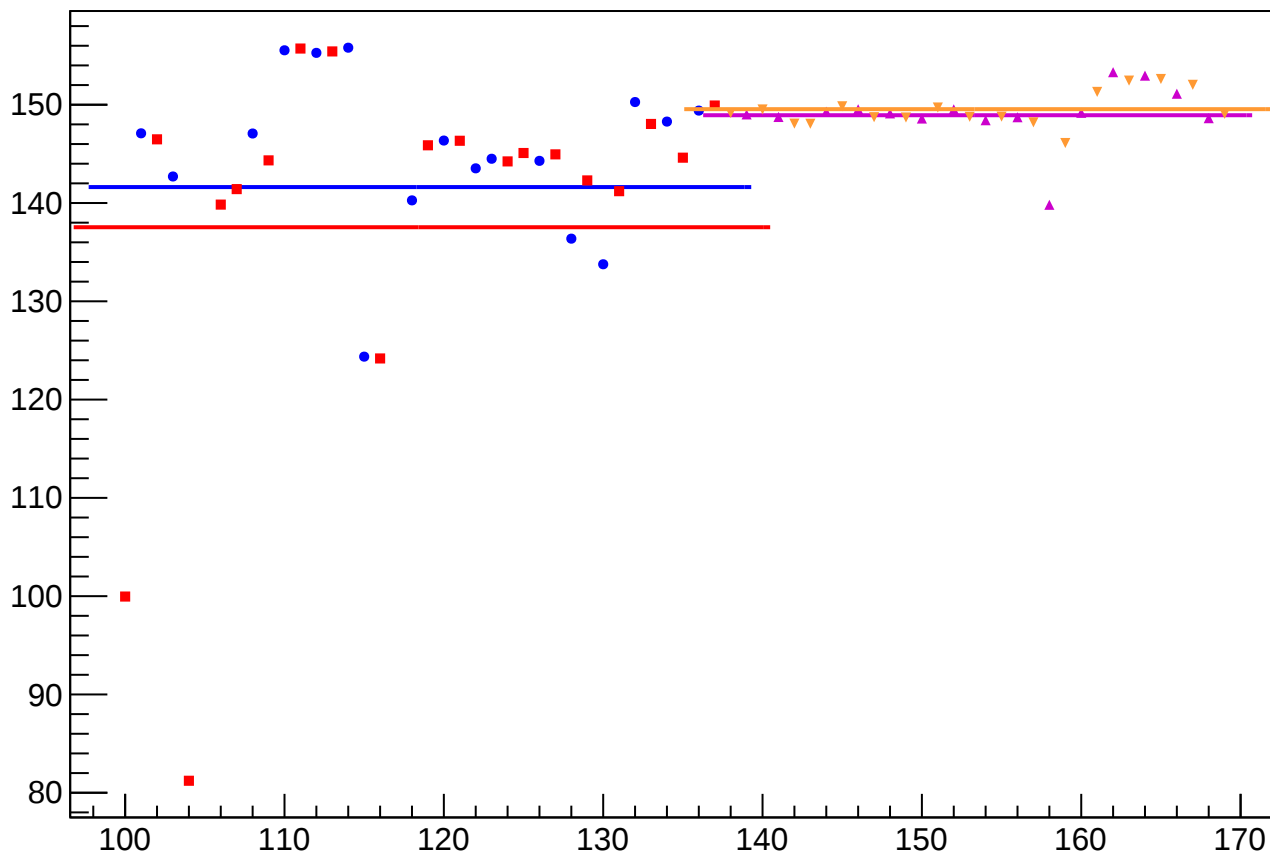
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18373456.3/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:25932609.0/31

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:27618652.9/35

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 53551290.4/67

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.549 $\pm$ 0.000 χ^2 /NDF: 119138973.2/16

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: 149.254 $\pm$ 0.000 χ^2 /NDF: 489341721.6/31

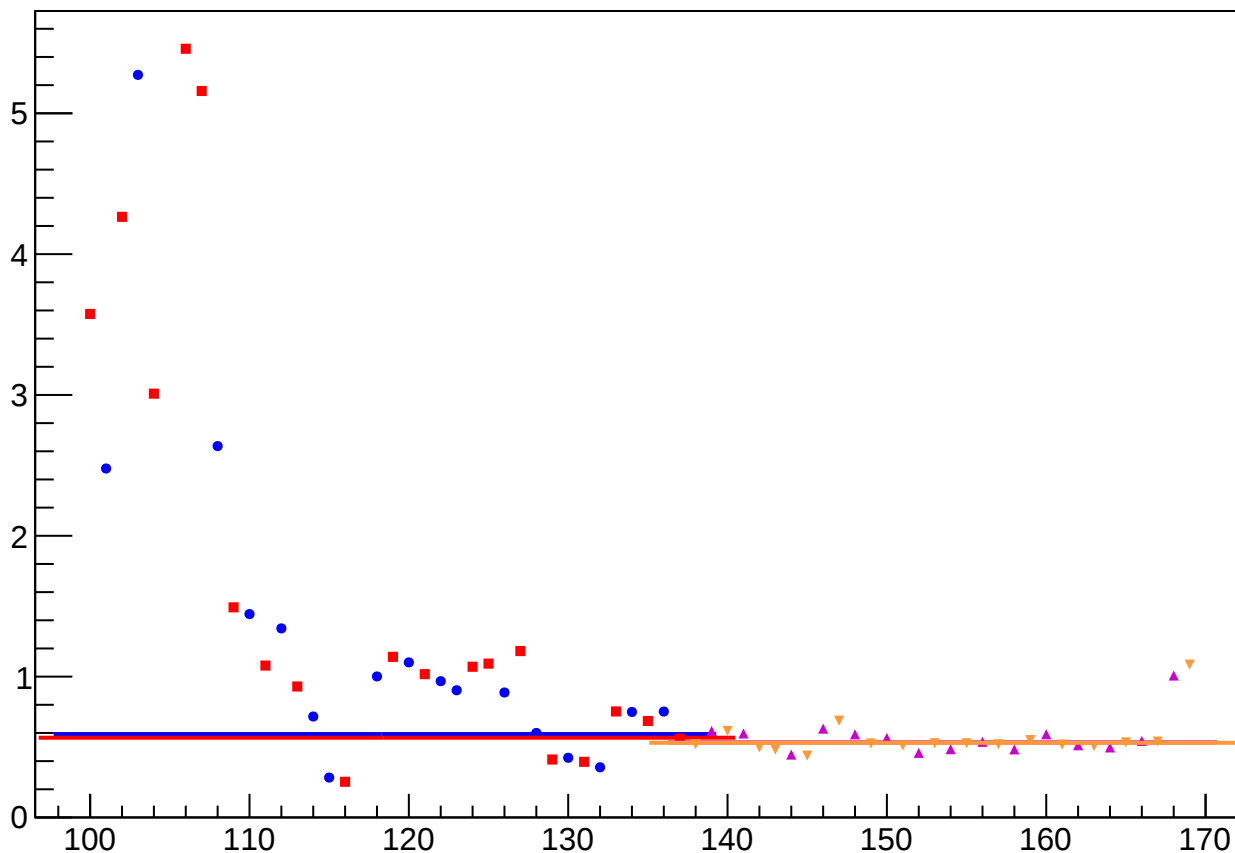
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.315 $\pm$ 0.000 χ^2 /NDF: 1766297335.8/31

Out: 146.977 $\pm$ 0.000 χ^2 /NDF: 2639444462.6/35

All: 147.139 $\pm$ 0.000 χ^2 /NDF: 4408452319.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592+/-0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.530+/-0.000 χ^2/NDF : 527684.3/16

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: 0.532+/-0.000 χ^2/NDF : 1072384.1/31

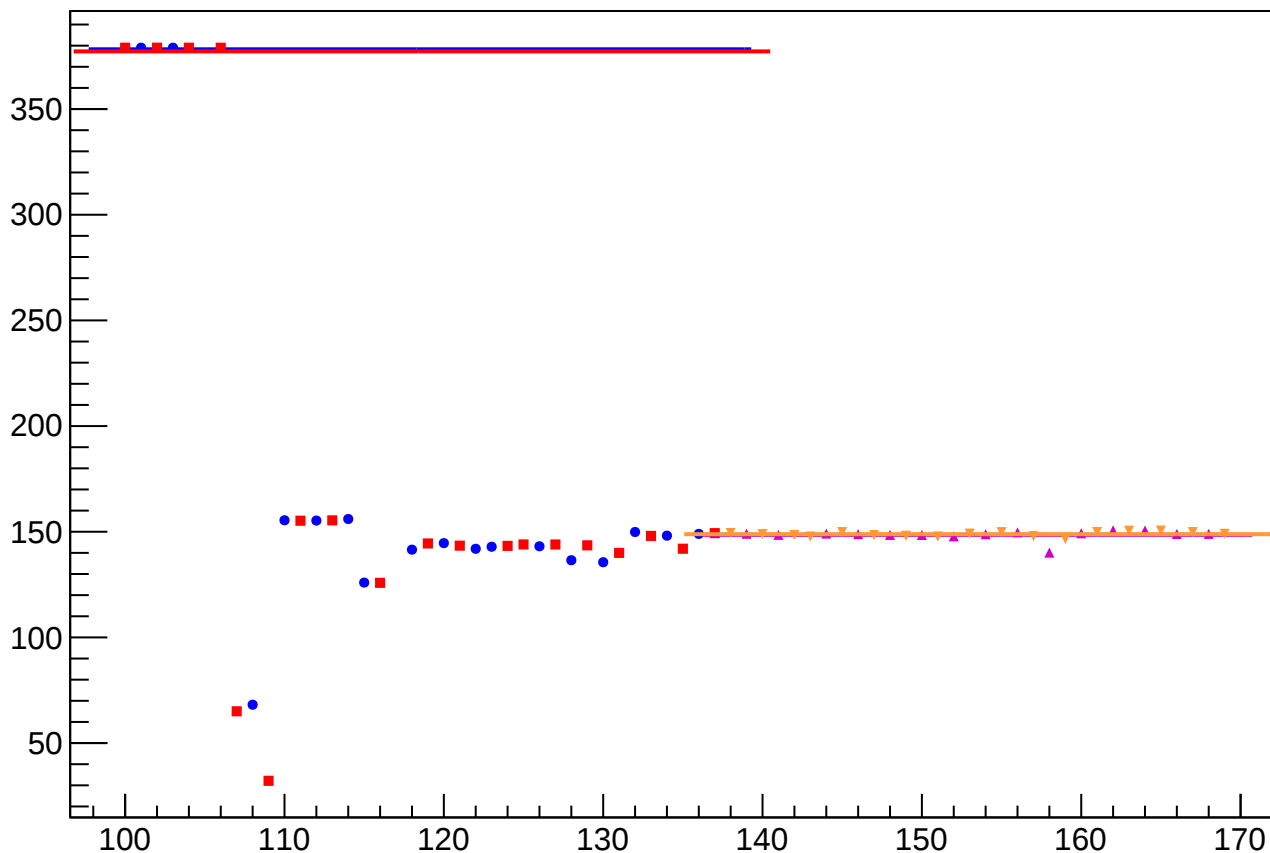
Right: 0.579+/-0.000 χ^2/NDF : 8210771.7/35

In: 0.546+/-0.000 χ^2/NDF : 4121159.4/31

Out: 0.538+/-0.000 χ^2/NDF : 5231391.4/35

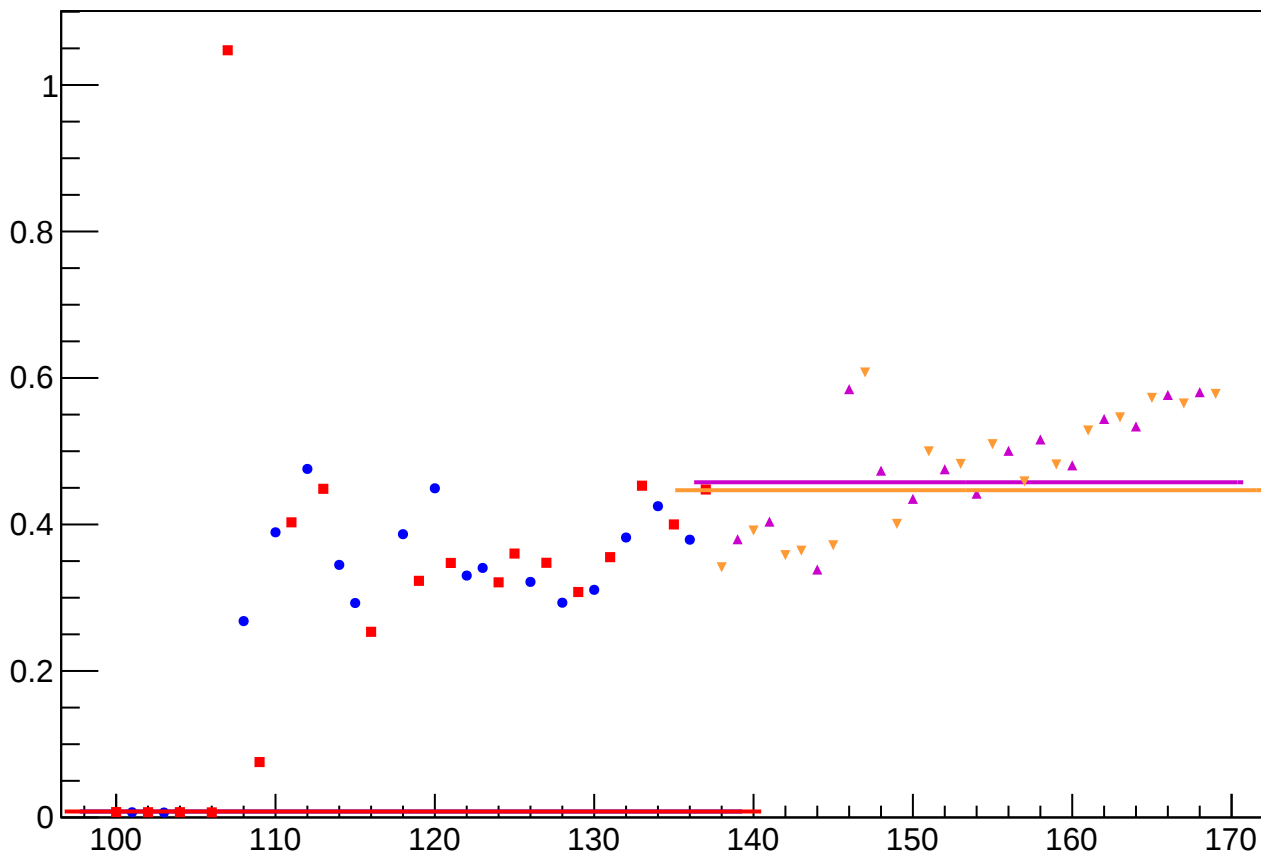
All: 0.542+/-0.000 χ^2/NDF : 9355794.9/67

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281 +/- 0.000 χ^2/NDF : 2512261599188.1/16
 Left Out: 148.843 +/- 0.000 χ^2/NDF : 59976667.2/16
 Right Out: 377.289 +/- 0.000 χ^2/NDF : 8279468194444.1/18
 Left In: 148.531 +/- 0.000 χ^2/NDF : 233424625.0/14
 All: 376.856 +/- 0.000 χ^2/NDF : 16652814796

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.447 $\pm$ 0.000 χ^2 /NDF:814481.0/16

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: 0.452 $\pm$ 0.000 χ^2 /NDF: 1414359.1/31

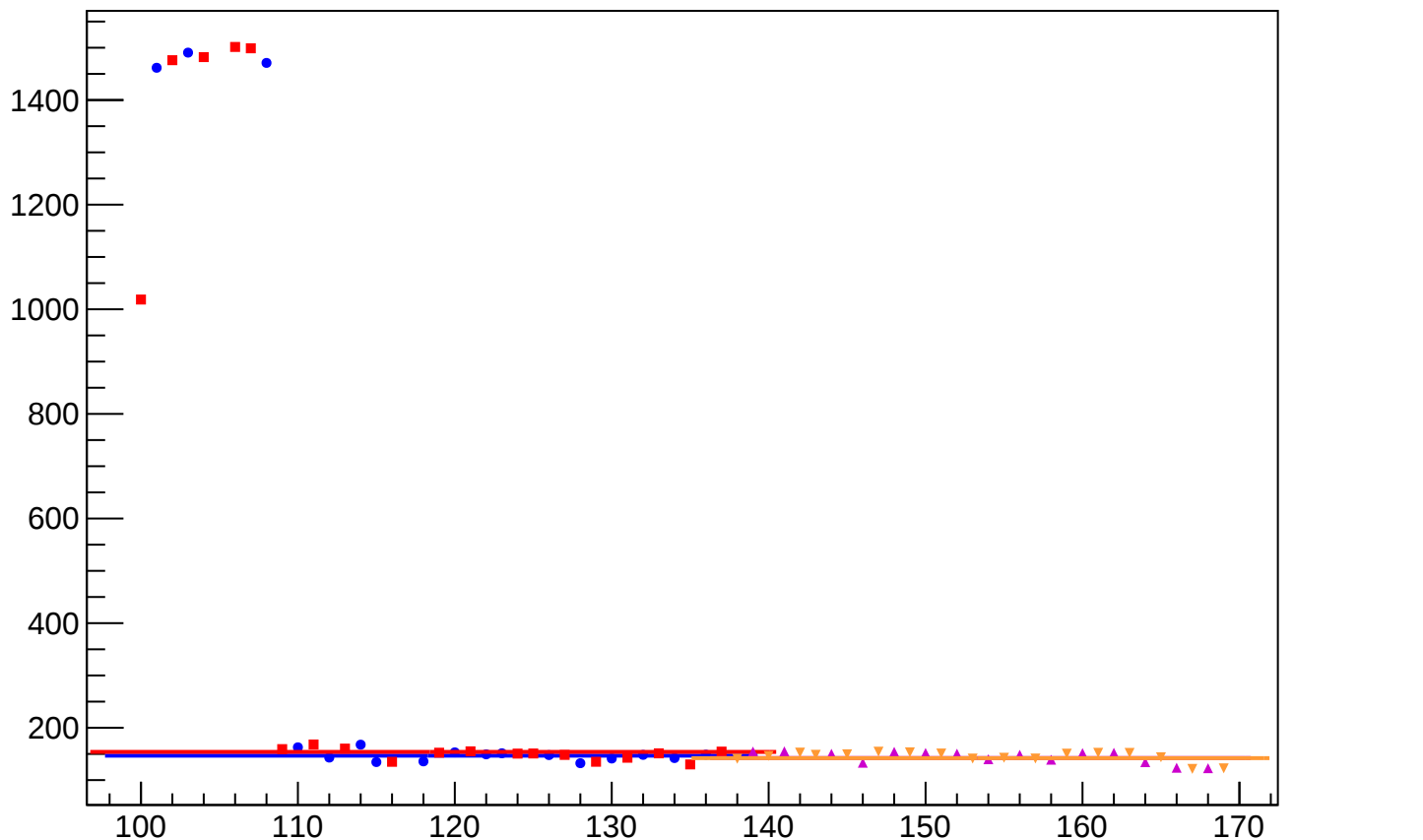
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:31680481.5/31

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:33091213.3/35

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 64771722.4/67

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 141.972+/-0.000 χ^2/NDF :1865719573.7/16

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: 142.048+/-0.000 χ^2/NDF : 3635584757.8/31

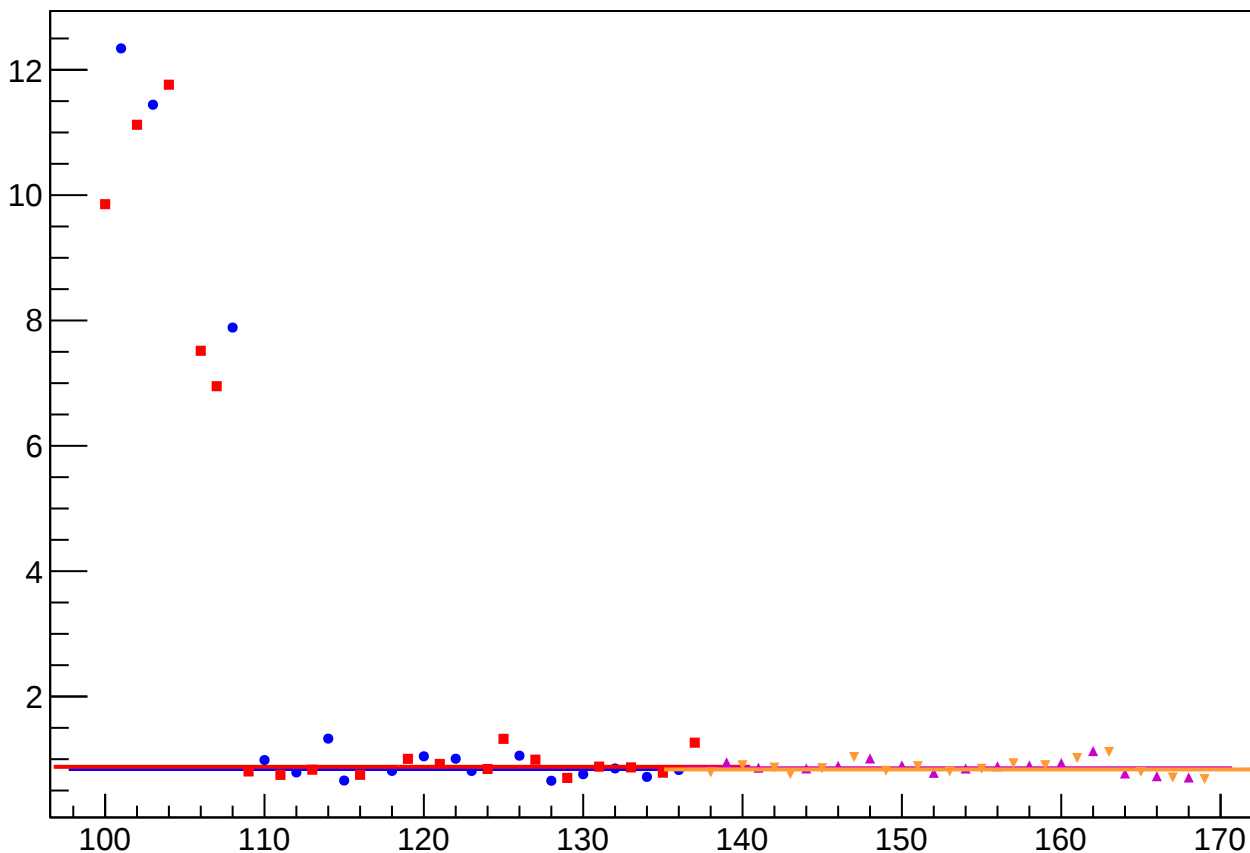
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 143.471+/-0.000 χ^2/NDF :26200482705.0/31

Out: 145.150+/-0.000 χ^2/NDF :36154690285.3/35

All: 144.343+/-0.000 χ^2/NDF : 62382050750.0/70

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.837+/-0.000 χ^2/NDF : 349968.8/16

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: 0.845+/-0.000 χ^2/NDF : 622368.2/31

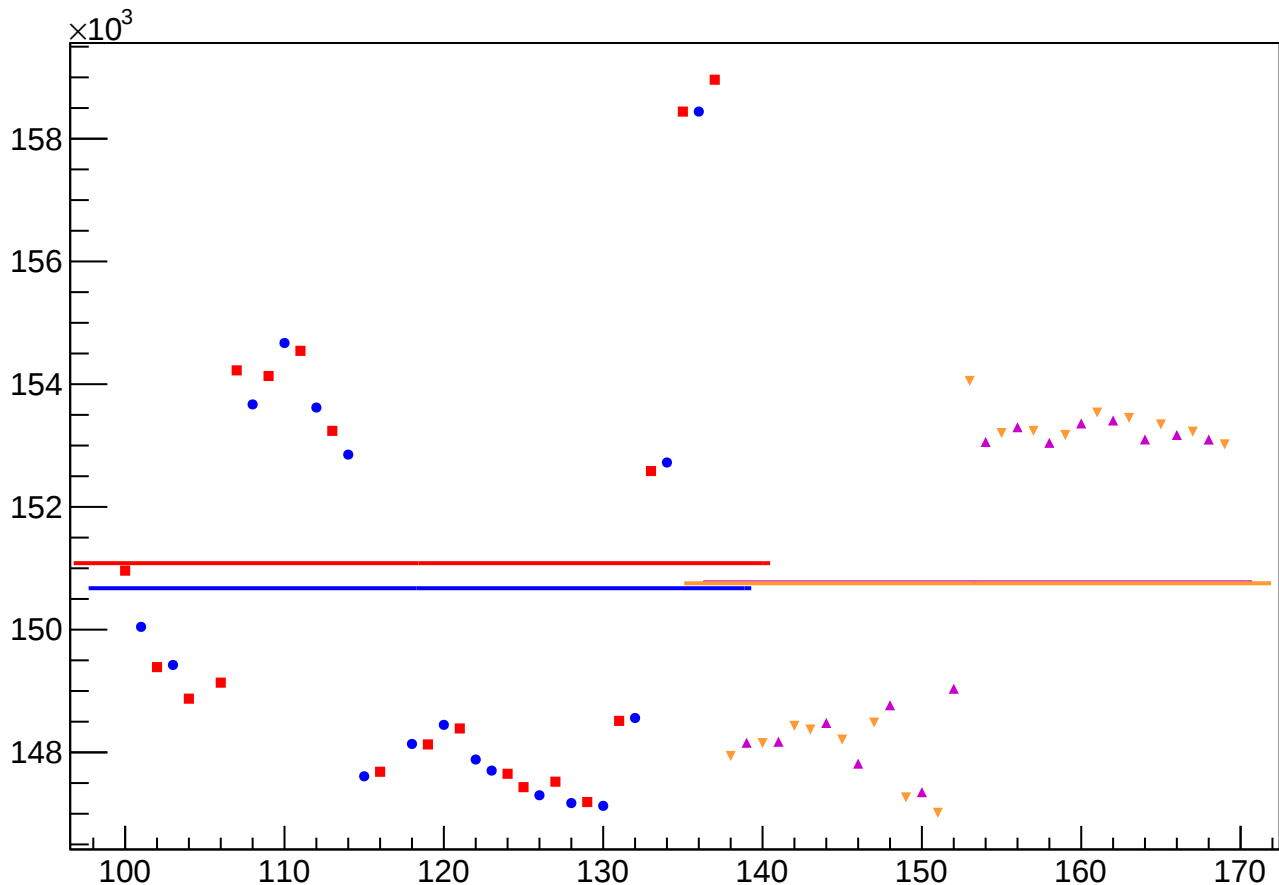
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.852+/-0.000 χ^2/NDF : 2939181.3/31

Out: 0.848+/-0.000 χ^2/NDF : 3175992.1/35

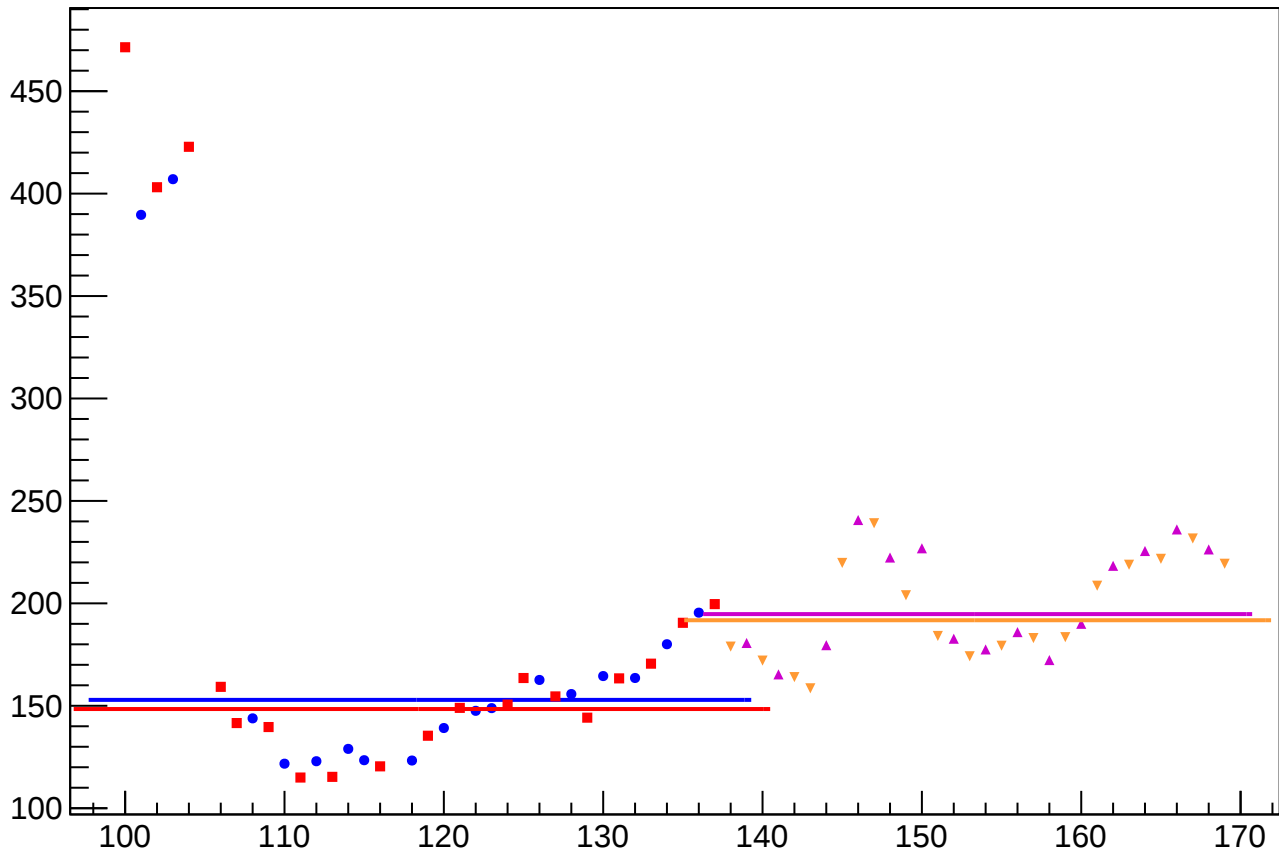
All: 0.850+/-0.000 χ^2/NDF : 6115477.1/67

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 150763.005 $\pm$ 0.040	χ^2 /NDF: 4360009804.2/3
Left Out: 150755.915 $\pm$ 0.055	χ^2 /NDF: 2536290109.0/16	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1/3
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: 150905.011 $\pm$ 0.040	χ^2 /NDF: 5853497499.5/3
		All: 150820.951 $\pm$ 0.029	χ^2 /NDF: 109976315

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883+/-0.045 χ^2/NDF : 1154088.7/16

Left Out: 191.754+/-0.039 χ^2/NDF : 359150.2/16

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: 193.170+/-0.028 χ^2/NDF : 711994.1/31

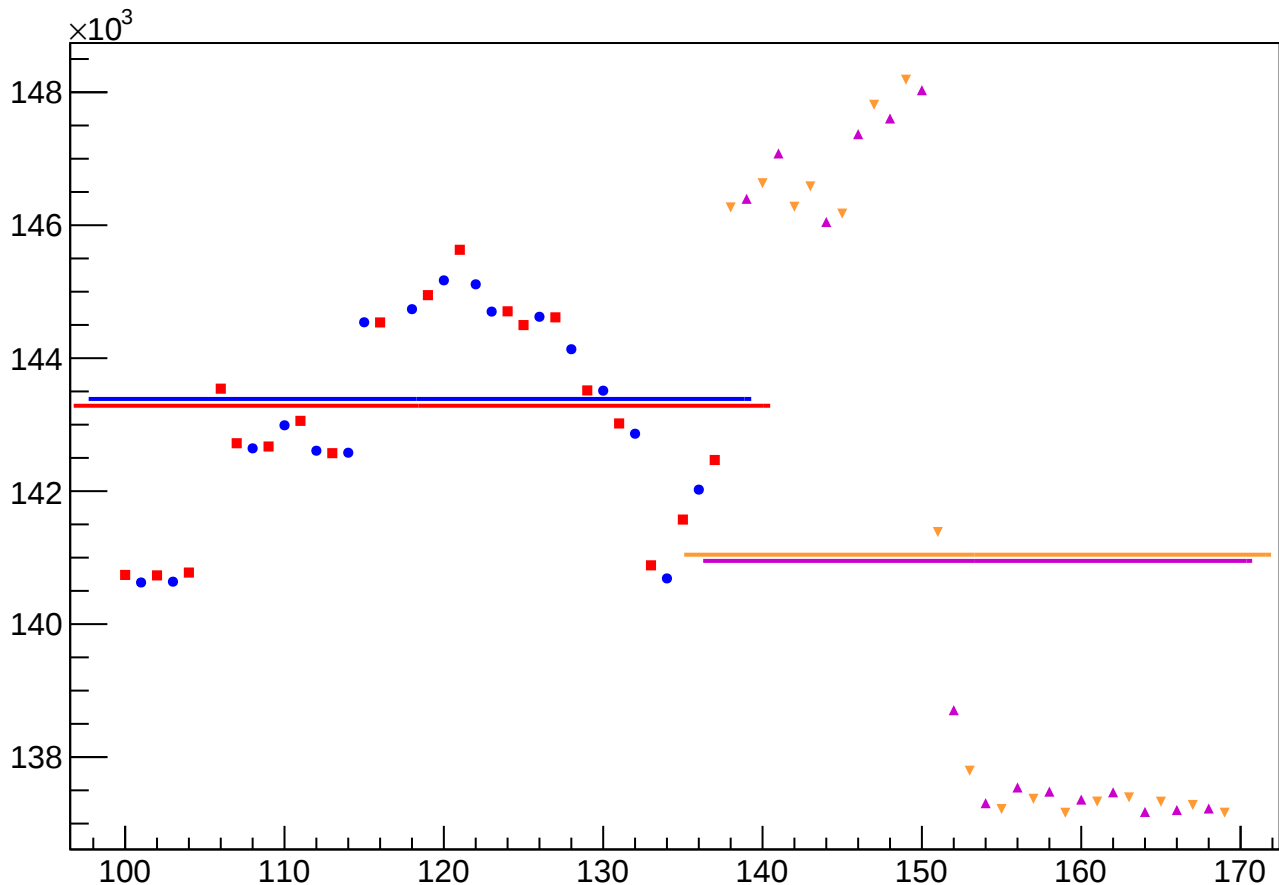
Right: 150.532+/-0.031 χ^2/NDF : 2350963.4/35

In: 175.618+/-0.030 χ^2/NDF : 1984356.9/31

Out: 172.016+/-0.028 χ^2/NDF : 2124751.7/35

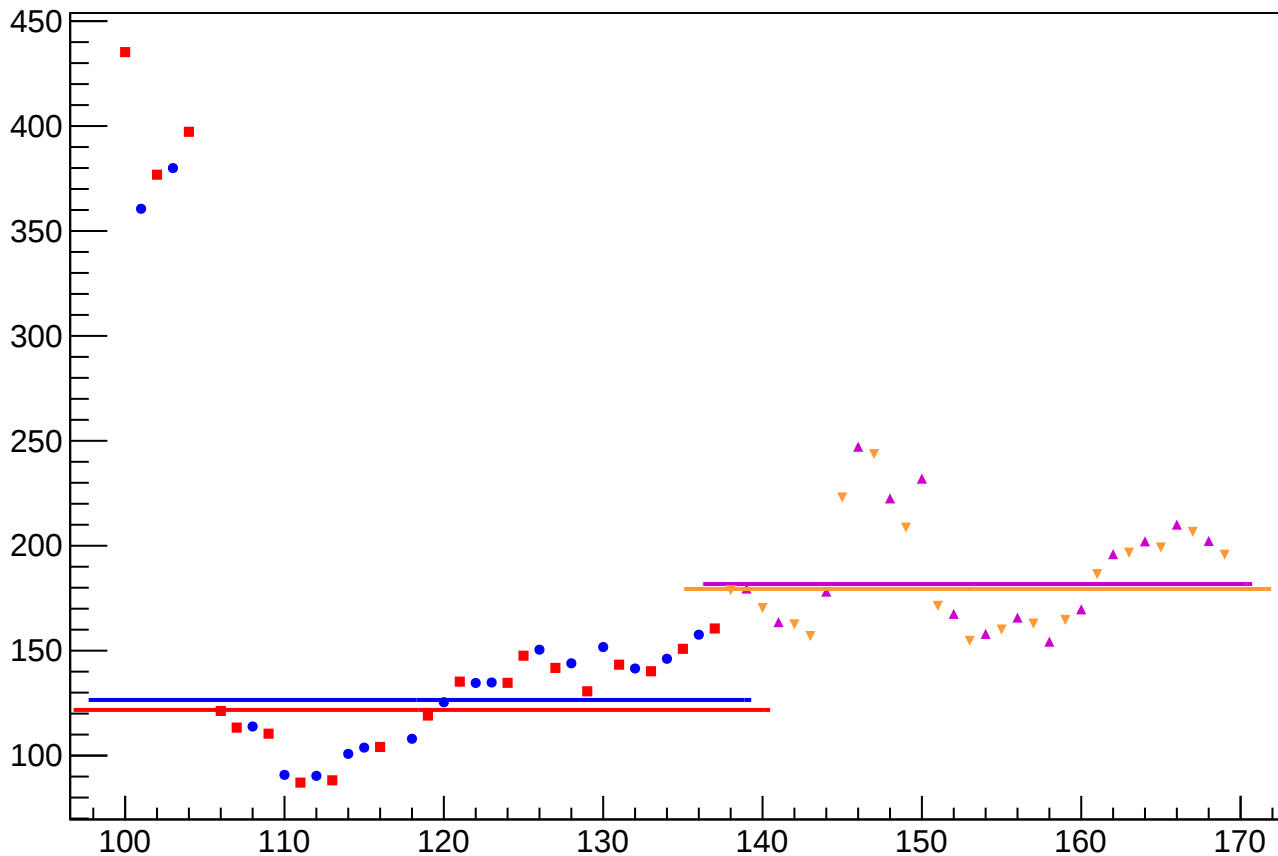
All: 173.718+/-0.021 χ^2/NDF : 4116661.9/67

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 141000.267 $\pm$ 0.037	χ^2 /NDF: 14693245796.6
Left Out: 141044.409 $\pm$ 0.051	χ^2 /NDF: 7592984833.4/16	Right: 143332.291 $\pm$ 0.036	χ^2 /NDF: 1131952524.8
Right Out: 143284.757 $\pm$ 0.049	χ^2 /NDF: 608634820.1/18	In: 142199.719 $\pm$ 0.038	χ^2 /NDF: 8660571667.3/3
Left In: 140950.953 $\pm$ 0.054	χ^2 /NDF: 7098684544.1/14	Out: 142210.483 $\pm$ 0.035	χ^2 /NDF: 9199906271.8/3
		All: 142205.442 $\pm$ 0.026	χ^2 /NDF: 17860521

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 179.399 $\pm$ 0.036 χ^2 /NDF:395609.2/16

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: 180.516 $\pm$ 0.026 χ^2 /NDF: 842360.0/31

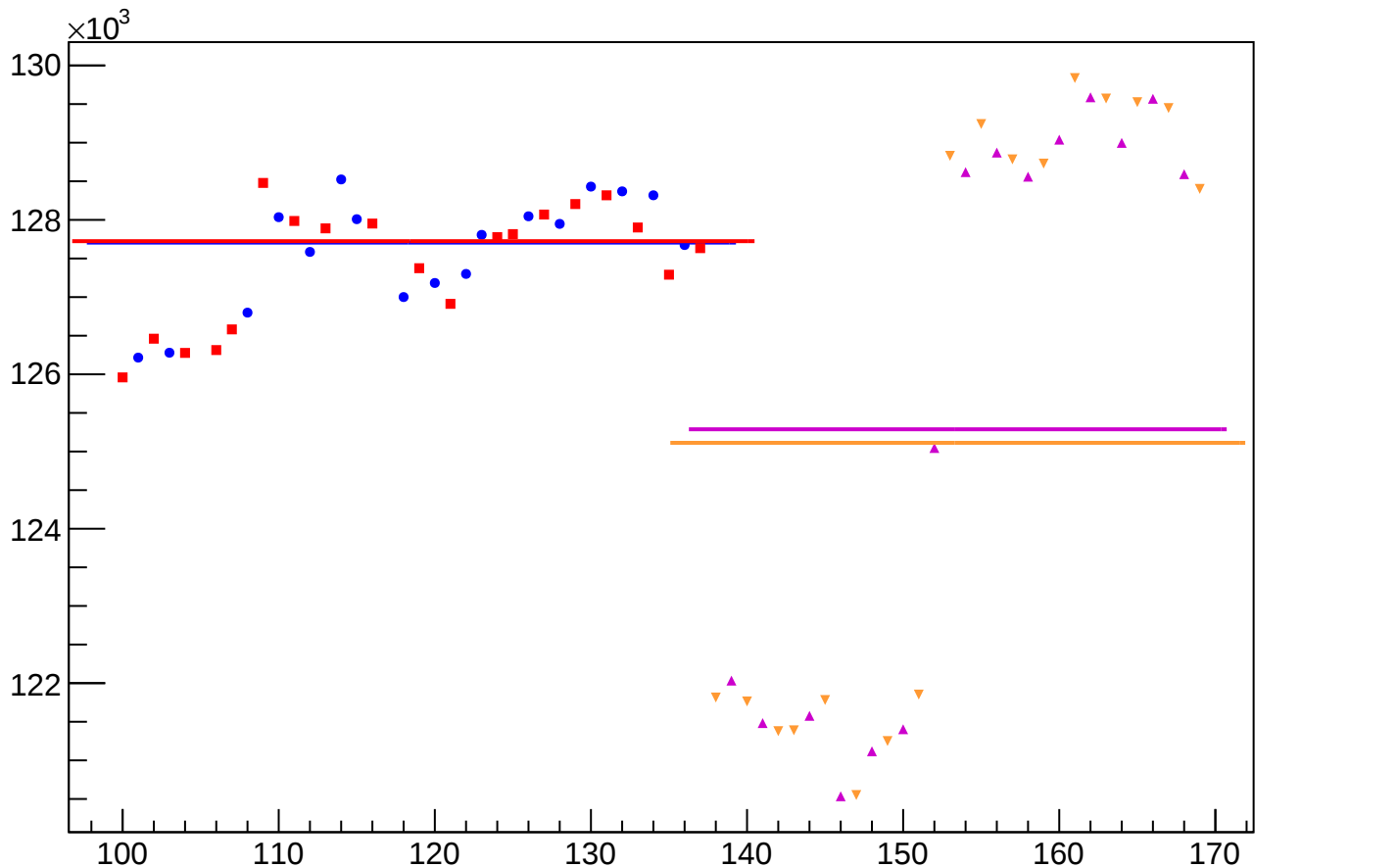
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 153.443 $\pm$ 0.027 χ^2 /NDF:2956902.9/31

Out: 149.405 $\pm$ 0.025 χ^2 /NDF:3180428.3/35

All: 151.296 $\pm$ 0.018 χ^2 /NDF: 6149504.3/67

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058 χ^2 /NDF: 97860521.1/16

Left Out: 125112.734 $\pm$ 0.050 χ^2 /NDF: 5719682949.5/16

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: 125199.372 $\pm$ 0.036 χ^2 /NDF: 10705806003.9

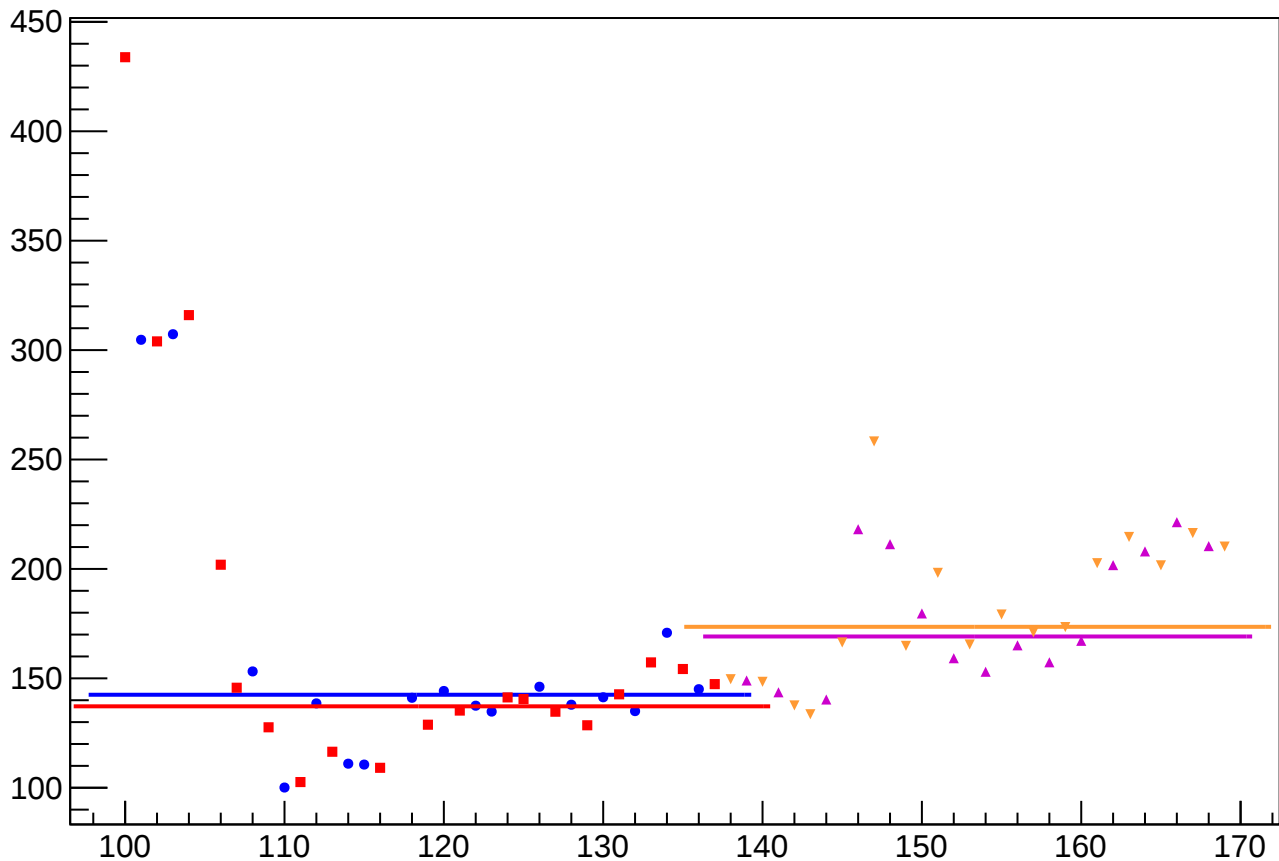
Right: 127715.791 $\pm$ 0.040 χ^2 /NDF: 210526259.6/3

In: 126333.314 $\pm$ 0.038 χ^2 /NDF: 6062828161.7/3

Out: 126308.280 $\pm$ 0.037 χ^2 /NDF: 7076030307.9/3

All: 126320.370 $\pm$ 0.027 χ^2 /NDF: 13139080

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502+/-0.041 χ^2/NDF : 836263.7/16

Left Out: 173.545+/-0.035 χ^2/NDF : 670441.6/16

Right Out: 137.211+/-0.039 χ^2/NDF : 957317.1/18

Left In: 169.127+/-0.036 χ^2/NDF : 533271.7/14

Left: 171.361+/-0.025 χ^2/NDF : 1211399.5/31

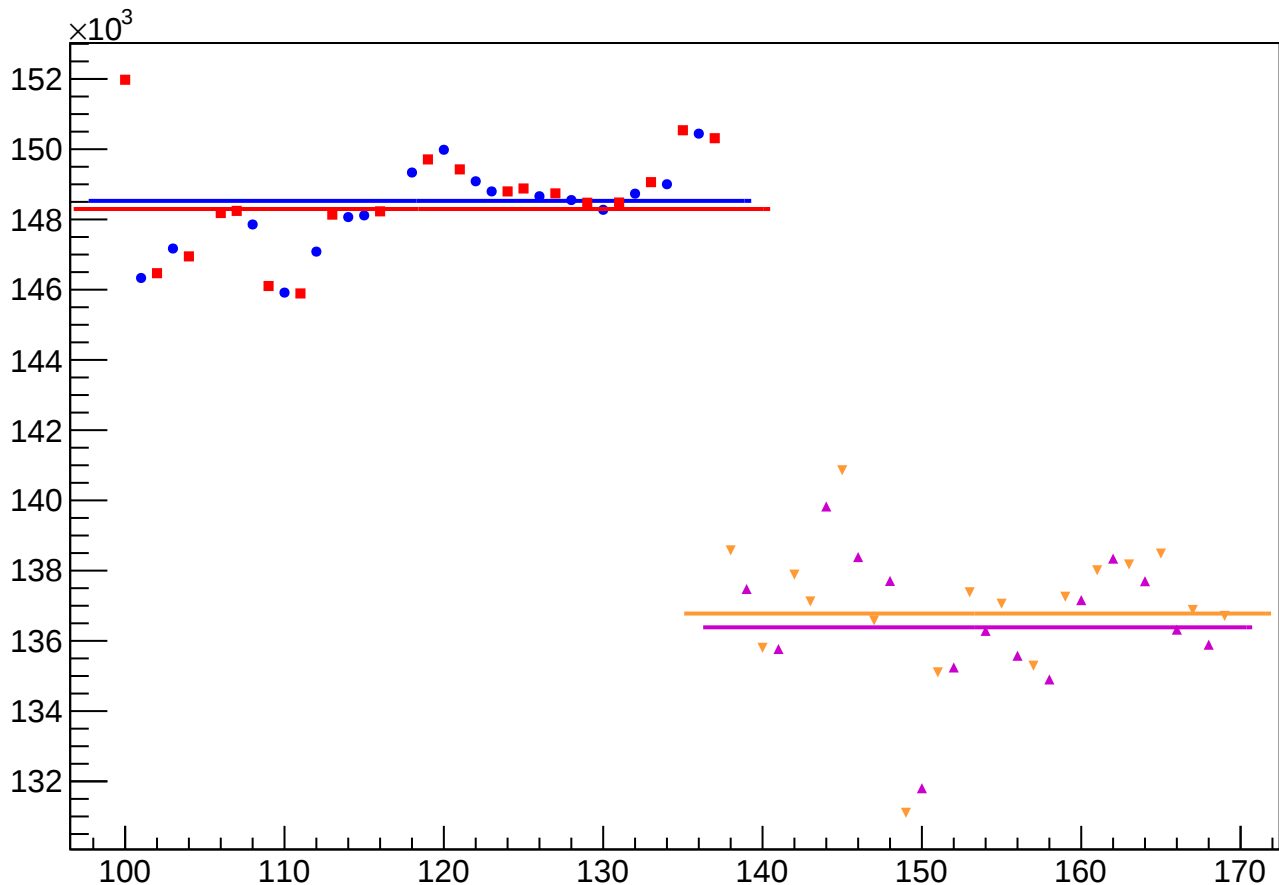
Right: 139.691+/-0.028 χ^2/NDF : 1802403.2/35

In: 157.618+/-0.027 χ^2/NDF : 1608331.4/31

Out: 156.911+/-0.026 χ^2/NDF : 2109235.8/35

All: 157.252+/-0.019 χ^2/NDF : 3717921.1/67

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136777.963 $\pm$ 0.074 χ^2 /NDF: 829762585.6/16

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: 136584.695 $\pm$ 0.052 χ^2 /NDF: 1483324681.7/3

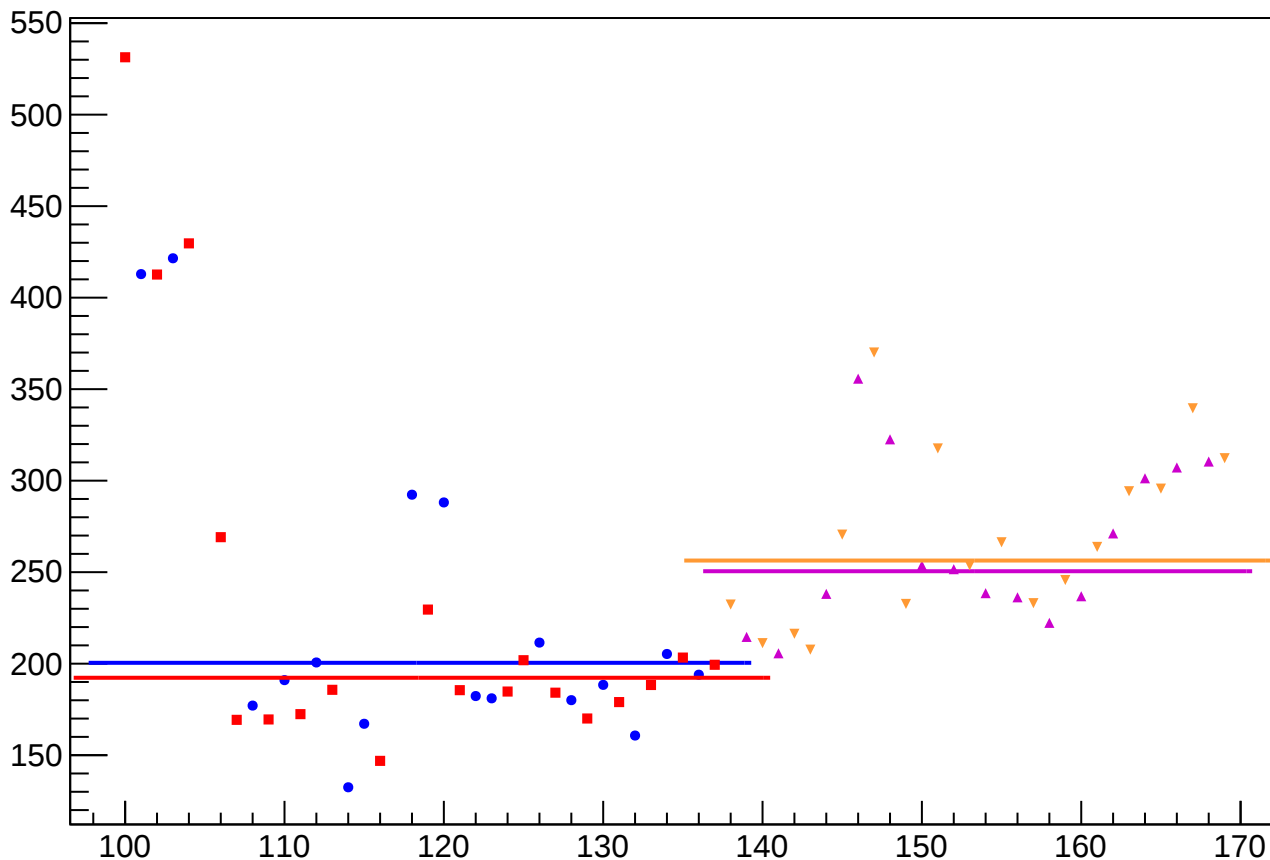
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141891.362 $\pm$ 0.055 χ^2 /NDF: 12816056667.8/3

Out: 142323.262 $\pm$ 0.053 χ^2 /NDF: 12908971743.8

All: 142116.270 $\pm$ 0.038 χ^2 /NDF: 257568353

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 256.355 $\pm$ 0.052 χ^2 /NDF: 620100.5/16

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: 253.481 $\pm$ 0.037 χ^2 /NDF: 1144192.5/31

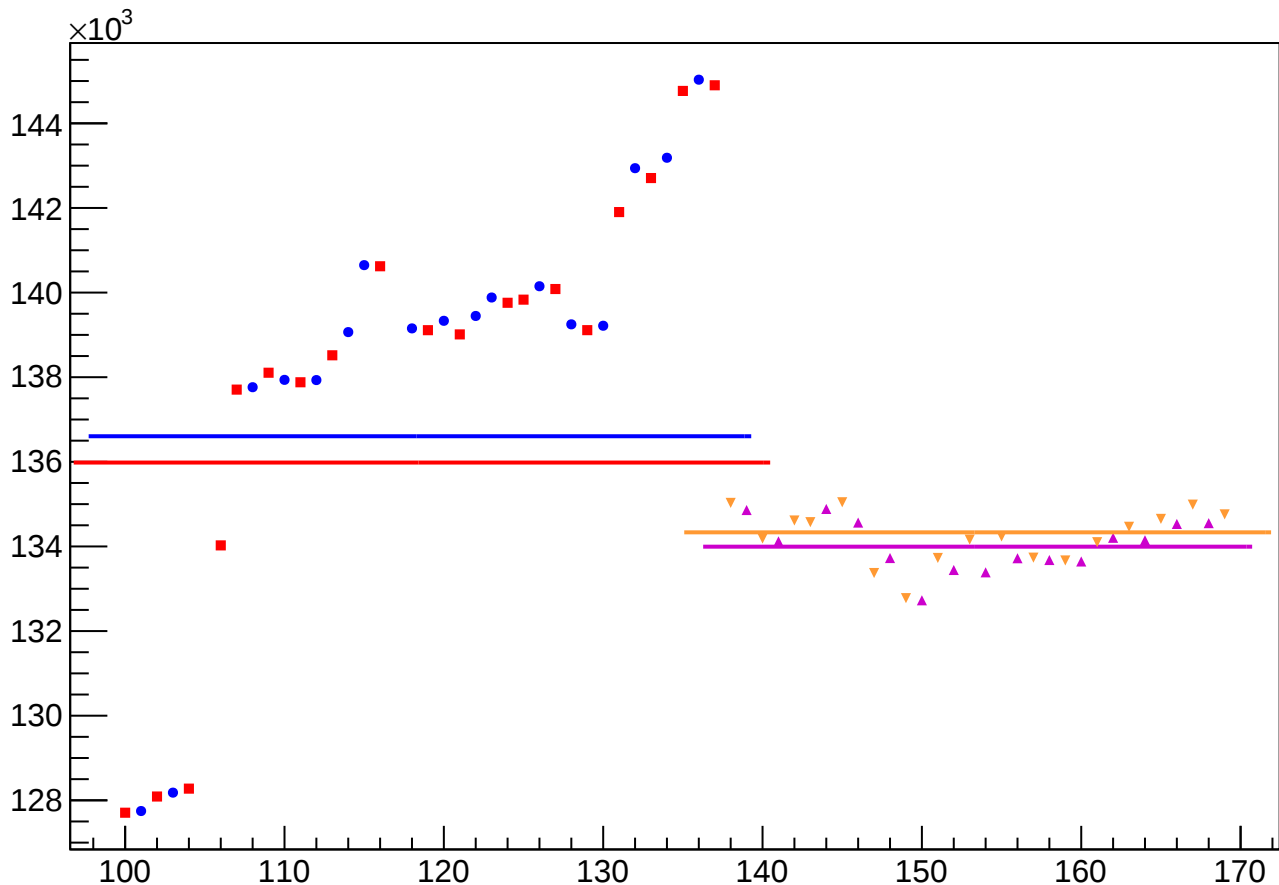
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 227.826 $\pm$ 0.039 χ^2 /NDF: 1860920.4/31

Out: 225.521 $\pm$ 0.037 χ^2 /NDF: 2193404.1/35

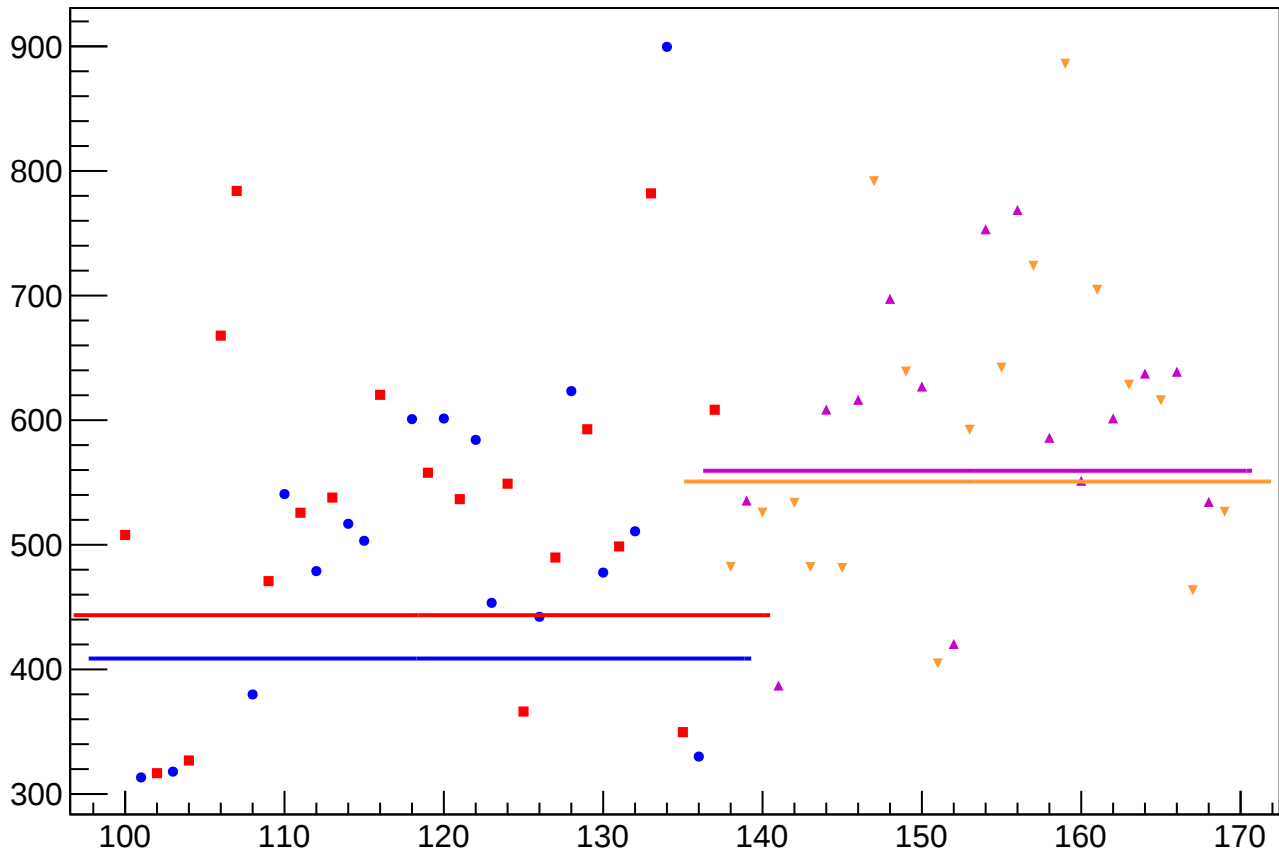
All: 226.626 $\pm$ 0.027 χ^2 /NDF: 4056136.3/67

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134177.460 $\pm$ 0.122	χ^2 /NDF: 25597082.1/31
Left Out: 134333.488 $\pm$ 0.166	χ^2 /NDF: 13334401.5/16	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/16
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135363.249 $\pm$ 0.124	χ^2 /NDF: 1614939364.8/31
Left In: 133994.751 $\pm$ 0.180	χ^2 /NDF: 10352538.7/14	Out: 135081.107 $\pm$ 0.123	χ^2 /NDF: 1140330542.0/31
		All: 135220.867 $\pm$ 0.087	χ^2 /NDF: 275787656.0/16

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 550.728 $\pm$ 0.118 χ^2 /NDF: 882751.7/16

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 559.397 $\pm$ 0.127 χ^2 /NDF: 740442.3/14

Left: 554.721 $\pm$ 0.086 χ^2 /NDF: 1625696.0/31

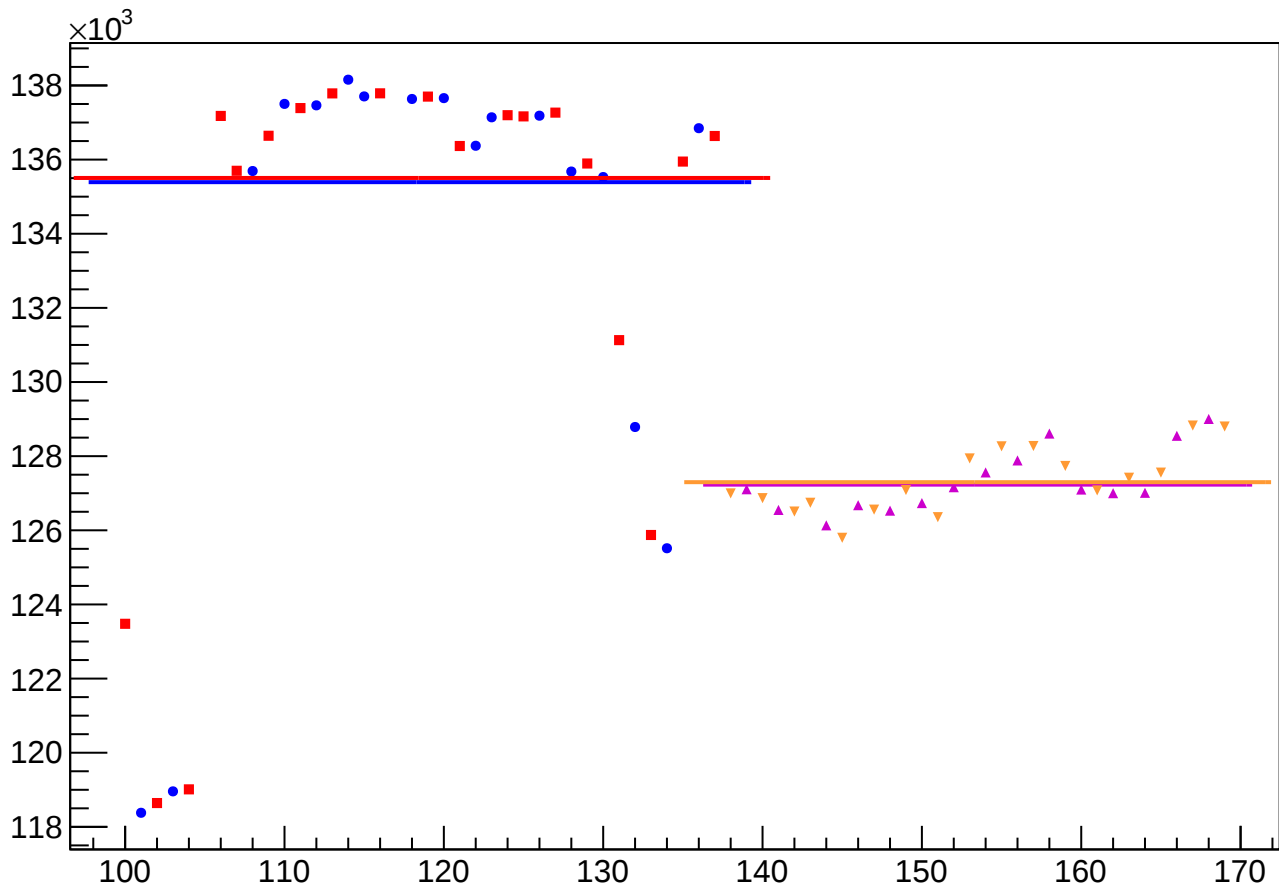
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 480.394 $\pm$ 0.088 χ^2 /NDF: 2298447.1/31

Out: 502.133 $\pm$ 0.087 χ^2 /NDF: 2176808.3/35

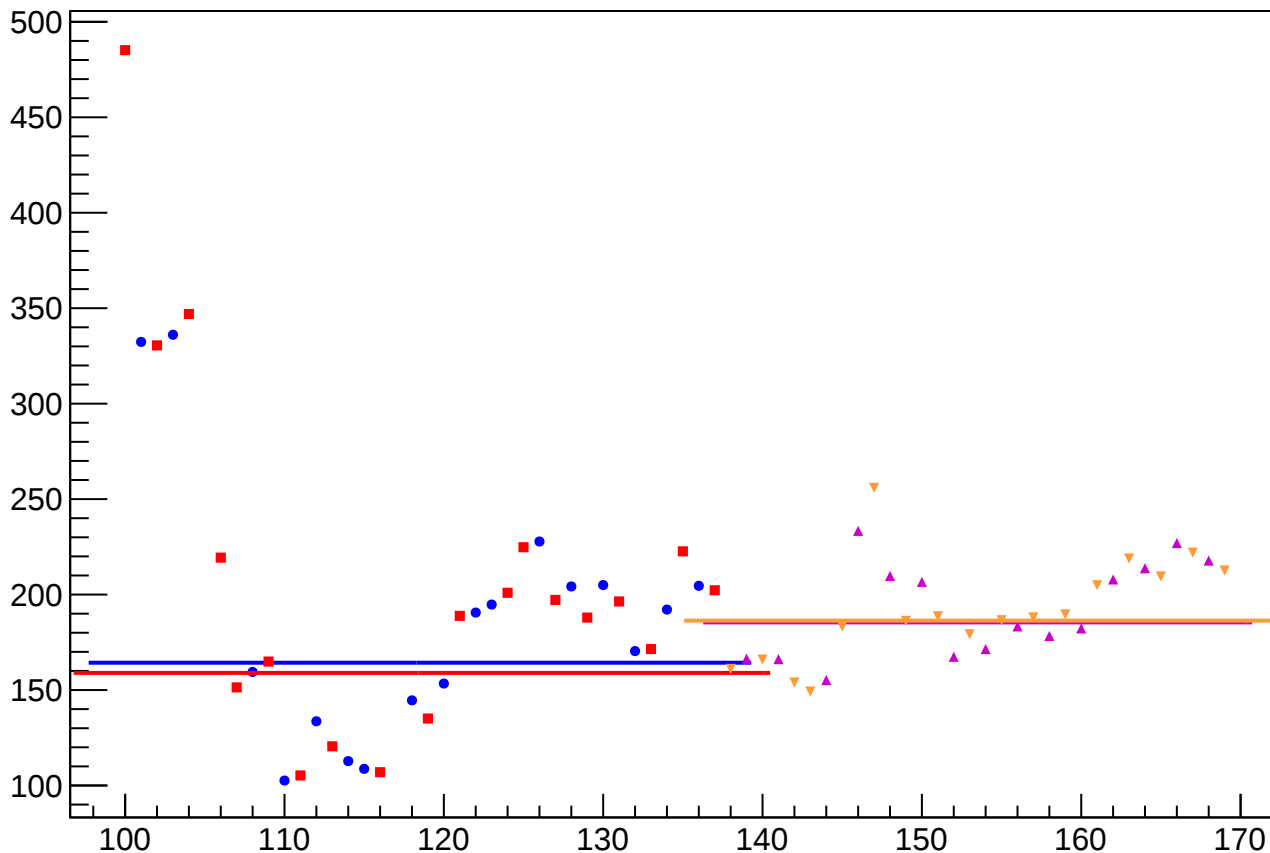
All: 491.365 $\pm$ 0.062 χ^2 /NDF: 4506206.2/67

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127266.315 $\pm$ 0.038	χ^2 /NDF: 451615392.3/31
Left Out: 127298.335 $\pm$ 0.053	χ^2 /NDF: 238642280.9/16	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/16
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130454.442 $\pm$ 0.043	χ^2 /NDF: 13436810616.3/31
Left In: 127232.038 $\pm$ 0.055	χ^2 /NDF: 212225992.3/14	Out: 130635.364 $\pm$ 0.041	χ^2 /NDF: 14607337735.2/16
		All: 130548.863 $\pm$ 0.030	χ^2 /NDF: 280534307.3/16

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2/NDF : 1230487.8/16

Left Out: 186.371 $\pm$ 0.038 χ^2/NDF : 417701.7/16

Right Out: 158.977 $\pm$ 0.046 χ^2/NDF : 1384059.2/18

Left In: 185.413 $\pm$ 0.039 χ^2/NDF : 353659.1/14

Left: 185.908 $\pm$ 0.027 χ^2/NDF : 771672.7/31

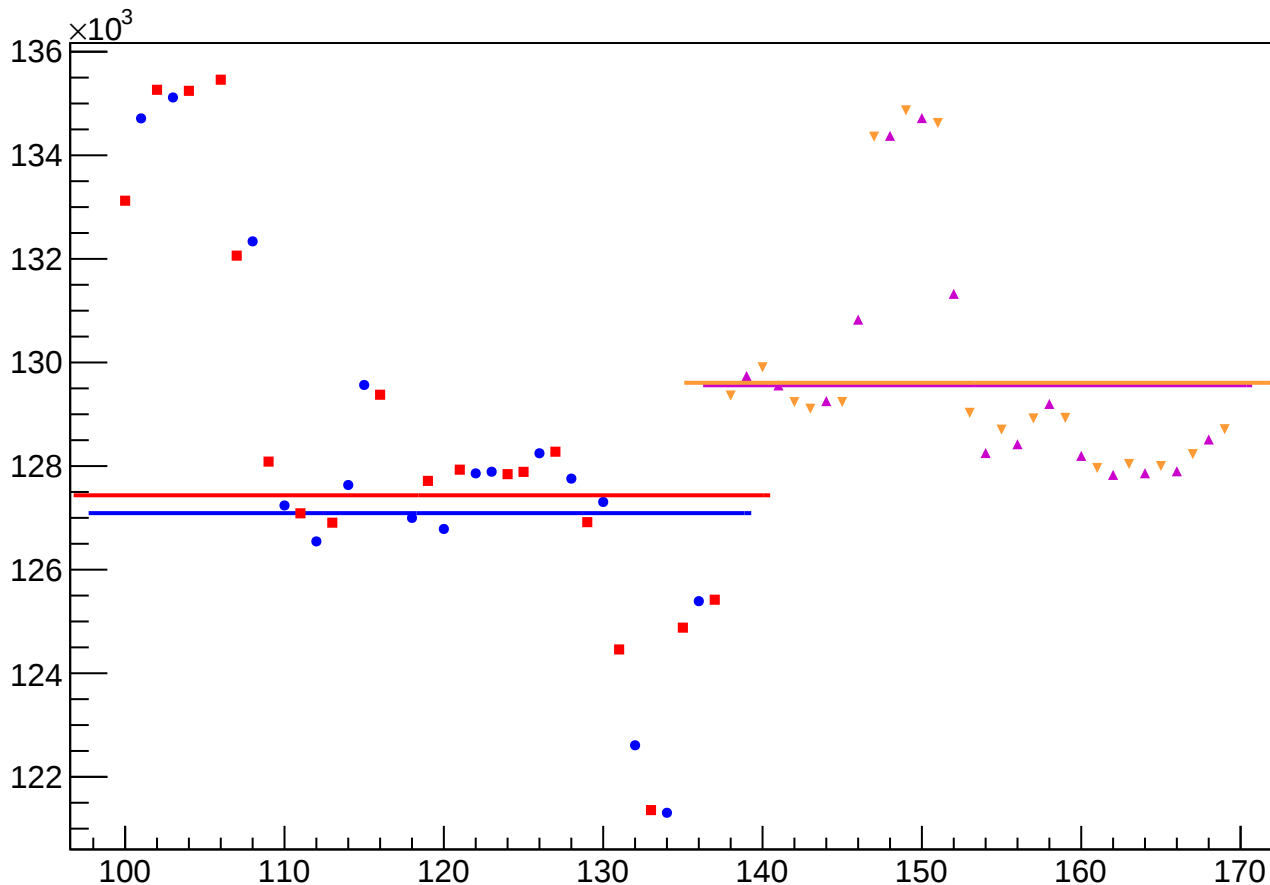
Right: 161.489 $\pm$ 0.033 χ^2/NDF : 2621008.2/35

In: 177.079 $\pm$ 0.030 χ^2/NDF : 1699784.8/31

Out: 175.232 $\pm$ 0.029 χ^2/NDF : 2016544.9/35

All: 176.115 $\pm$ 0.021 χ^2/NDF : 3718265.4/67

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066

χ^2 /NDF: 1717208780.6/16

Left Out: 129607.986 $\pm$ 0.054

χ^2 /NDF: 1335933502.2/16

Right Out: 127436.101 $\pm$ 0.062

χ^2 /NDF: 2079075713.9/18

Left In: 129560.228 $\pm$ 0.055

χ^2 /NDF: 1091681704.7/14

Left: 129584.897 $\pm$ 0.038

χ^2 /NDF: 2427999774.7/3

Right: 127276.609 $\pm$ 0.045

χ^2 /NDF: 3810794624.3/3

In: 128546.370 $\pm$ 0.042

χ^2 /NDF: 3625894490.9/3

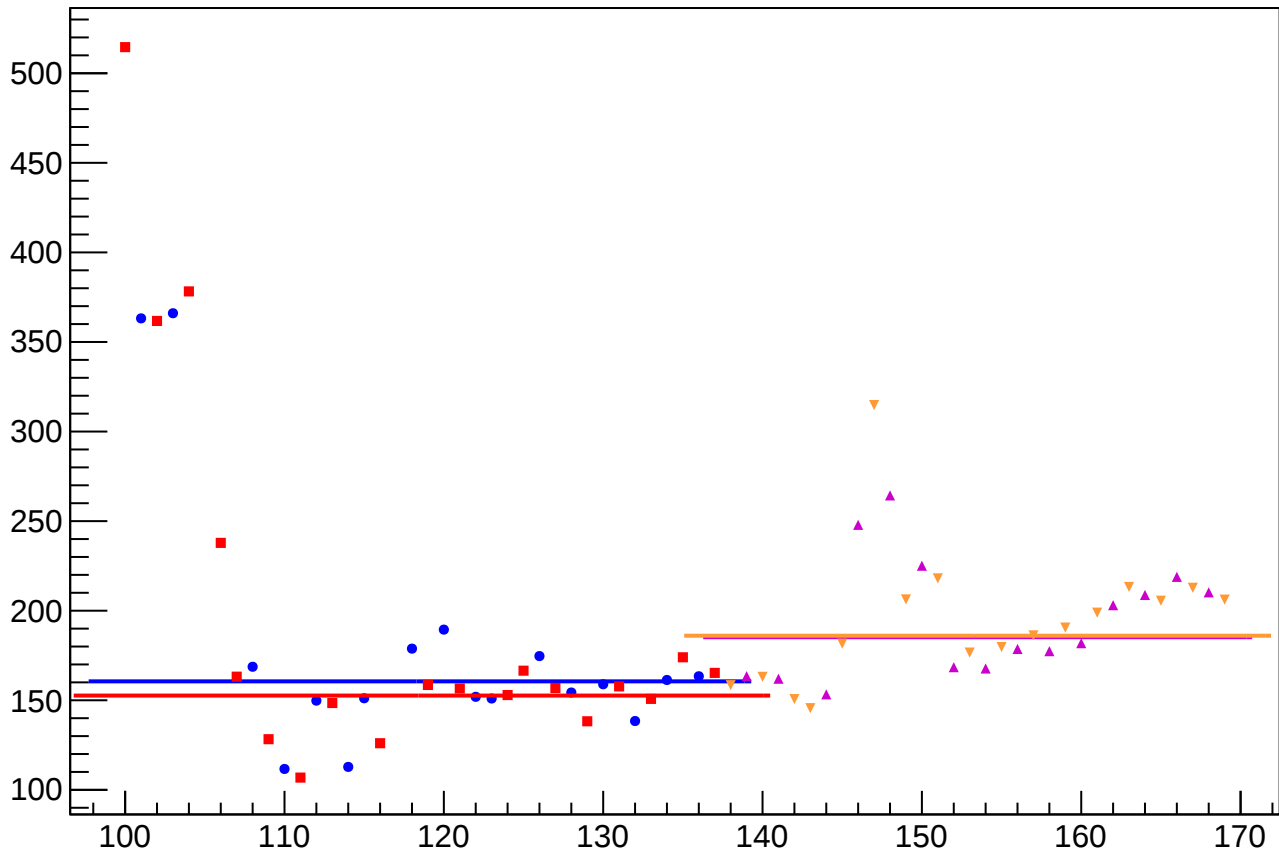
Out: 128672.254 $\pm$ 0.040

χ^2 /NDF: 4123813529.8/3

All: 128612.489 $\pm$ 0.029

χ^2 /NDF: 775431822.0/3

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564+/-0.047 χ^2/NDF : 942747.0/16

Left Out: 186.045+/-0.038 χ^2/NDF : 614224.1/16

Right Out: 152.629+/-0.044 χ^2/NDF : 1086504.4/18

Left In: 185.200+/-0.039 χ^2/NDF : 539825.5/14

Left: 185.636+/-0.027 χ^2/NDF : 1154290.7/31

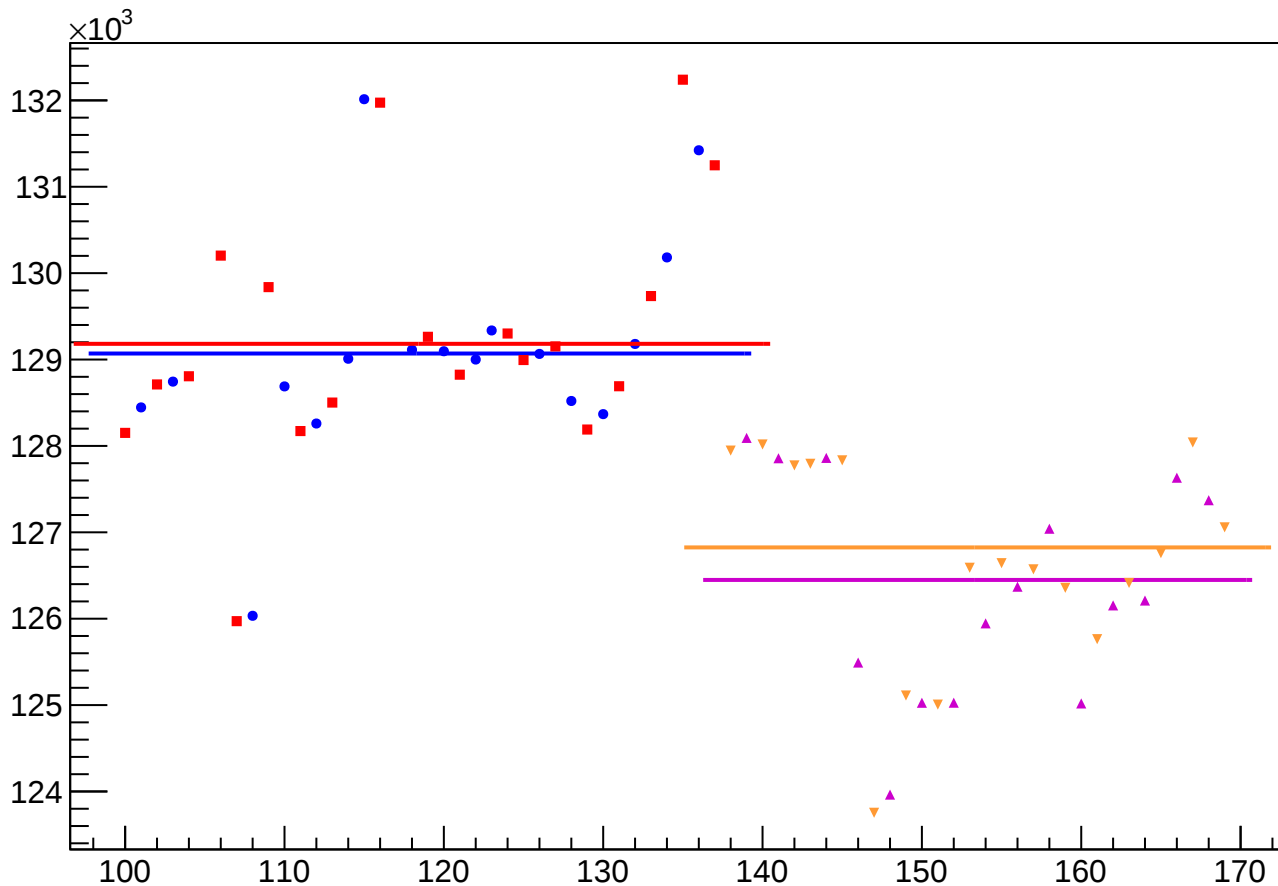
Right: 156.301+/-0.032 χ^2/NDF : 2044640.1/35

In: 175.082+/-0.030 χ^2/NDF : 1645290.3/31

Out: 171.648+/-0.029 χ^2/NDF : 2036315.3/35

All: 173.279+/-0.021 χ^2/NDF : 3688467.9/67

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668+/-0.060

χ^2/NDF : 476692316.5/16

Left Out: 126825.133+/-0.052

χ^2/NDF : 462212109.5/16

Right Out: 129181.887+/-0.056

χ^2/NDF : 625597399.6/18

Left In: 126448.675+/-0.054

χ^2/NDF : 542324814.6/14

Left: 126643.531+/-0.037

χ^2/NDF : 1030108675.4/3

Right: 129129.710+/-0.041

χ^2/NDF : 1104150743.5/3

In: 127607.334+/-0.040

χ^2/NDF : 2077665279.2/3

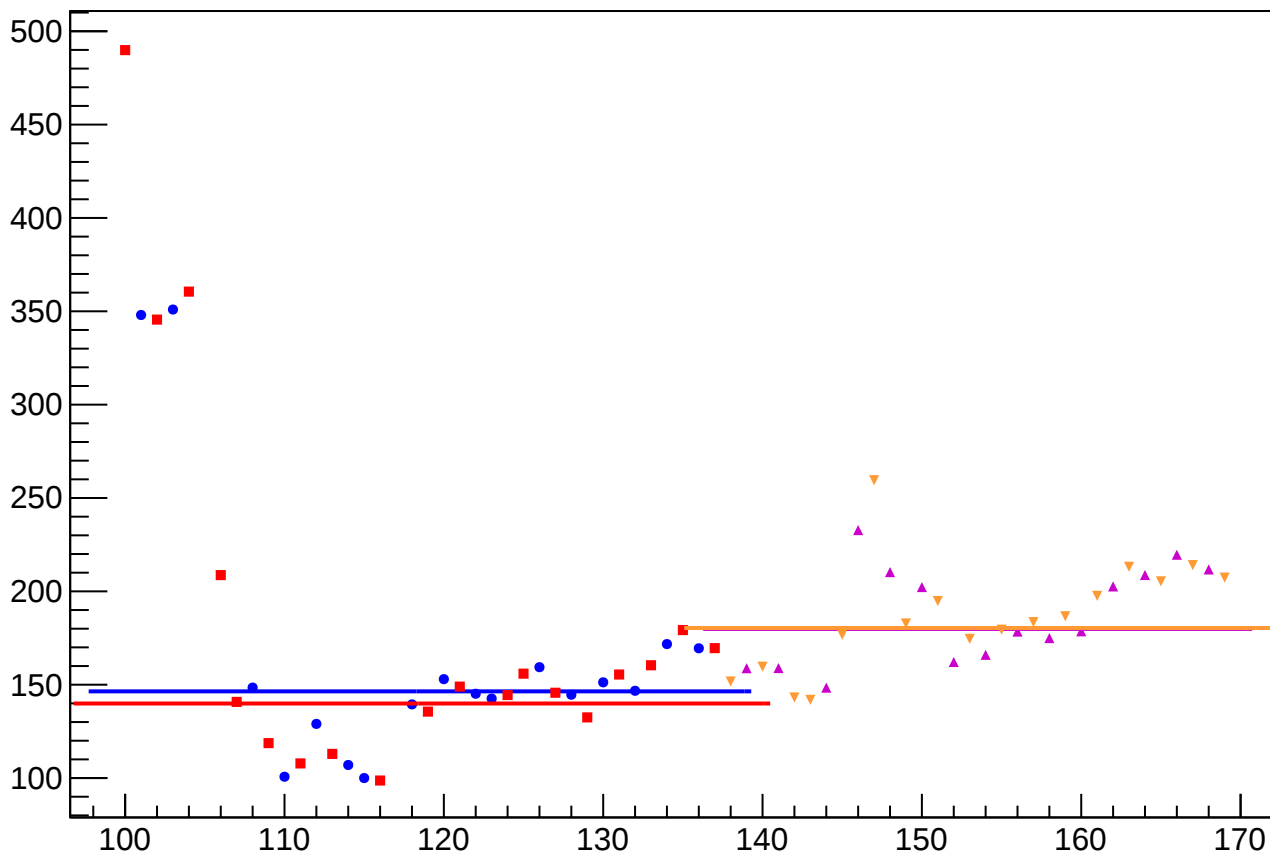
Out: 127907.781+/-0.038

χ^2/NDF : 2042201133.2/3

All: 127765.210+/-0.028

χ^2/NDF : 414950347.1/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 ± 0.043 $\chi^2/\text{NDF}: 1064791.0/16$

Left Out: 180.389 ± 0.037 $\chi^2/\text{NDF}: 515998.3/16$

Right Out: 139.929 ± 0.040 $\chi^2/\text{NDF}: 1203570.9/18$

Left In: 179.873 ± 0.038 $\chi^2/\text{NDF}: 410679.9/14$

Left: 180.140 ± 0.026 $\chi^2/\text{NDF}: 926774.4/31$

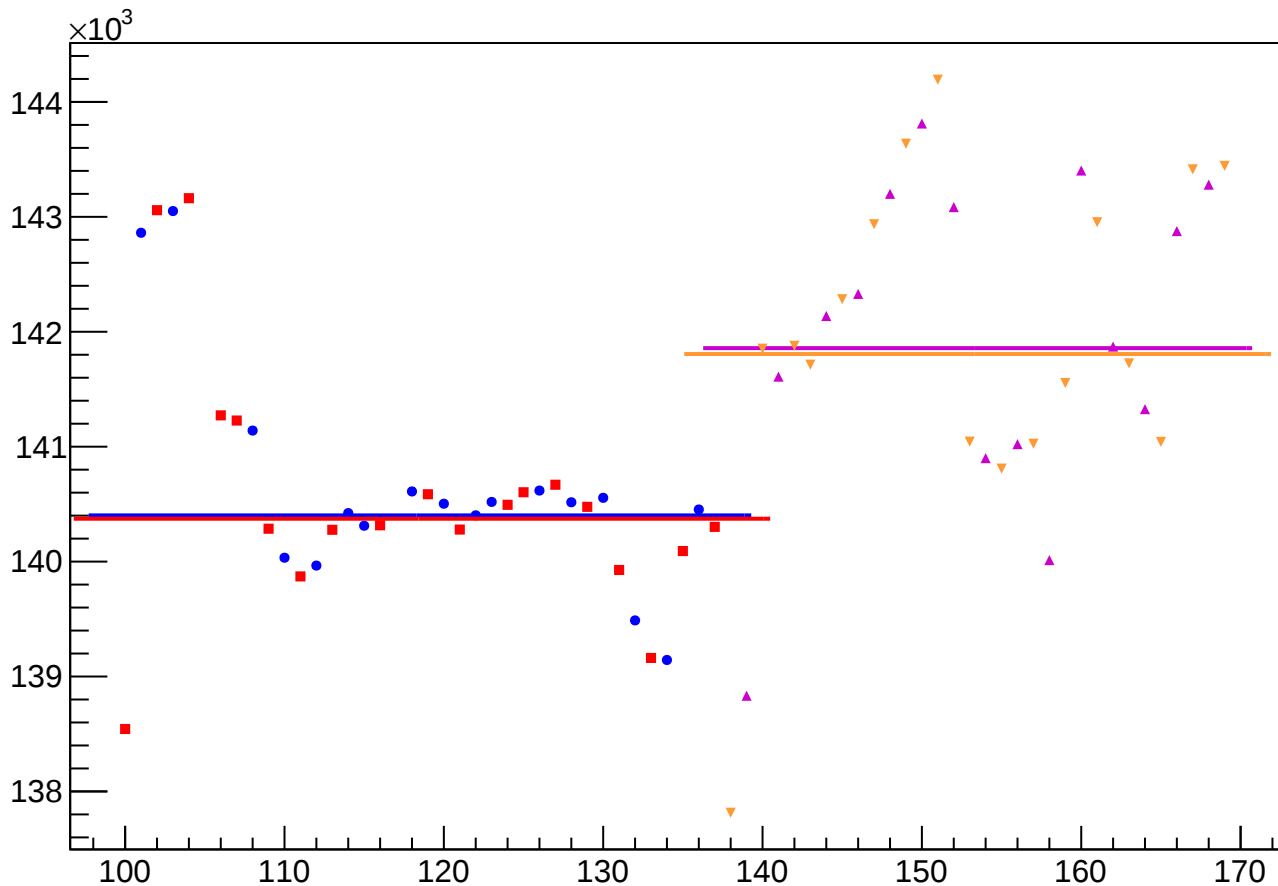
Right: 142.955 ± 0.029 $\chi^2/\text{NDF}: 2280881.6/35$

In: 165.092 ± 0.028 $\chi^2/\text{NDF}: 1820030.9/31$

Out: 161.803 ± 0.027 $\chi^2/\text{NDF}: 2282144.0/35$

All: 163.364 ± 0.019 $\chi^2/\text{NDF}: 4109280.6/67$

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2/NDF : 88071774.7/16

Left Out: 141806.231 $\pm$ 0.060

χ^2/NDF : 668399802.0/16

Right Out: 140373.163 $\pm$ 0.060

χ^2/NDF : 99854533.3/18

Left In: 141857.506 $\pm$ 0.062

χ^2/NDF : 506858866.9/14

Left: 141831.070 $\pm$ 0.043

χ^2/NDF : 1175615463.4/3

Right: 140386.544 $\pm$ 0.044

χ^2/NDF : 188034057.1/3

In: 141161.054 $\pm$ 0.045

χ^2/NDF : 861745836.2/31

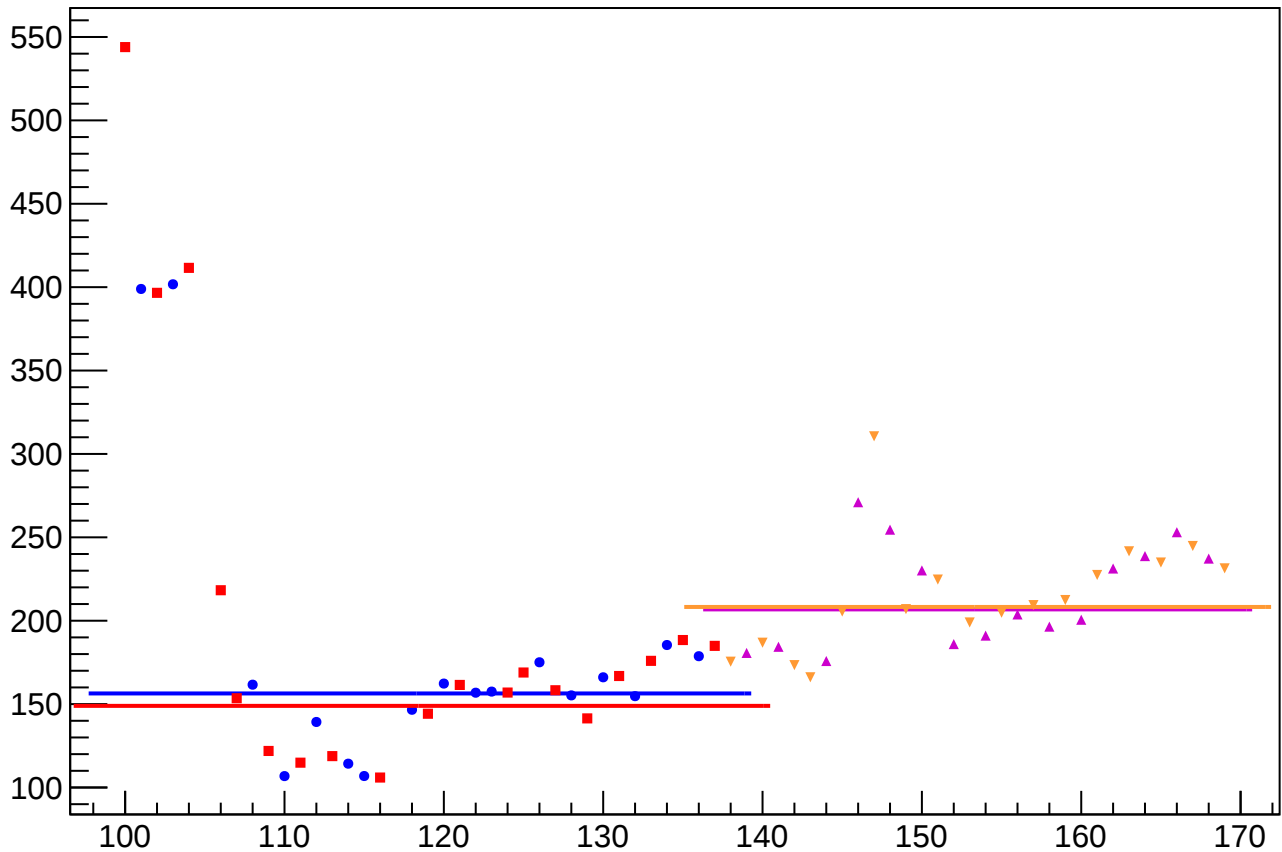
Out: 141090.953 $\pm$ 0.042

χ^2/NDF : 1055413783.8/3

All: 141124.205 $\pm$ 0.031

χ^2/NDF : 191846334

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 208.256 $\pm$ 0.042 χ^2 /NDF: 471627.6/16

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 206.787 $\pm$ 0.044 χ^2 /NDF: 404425.1/14

Left: 207.544 $\pm$ 0.030 χ^2 /NDF: 876638.2/31

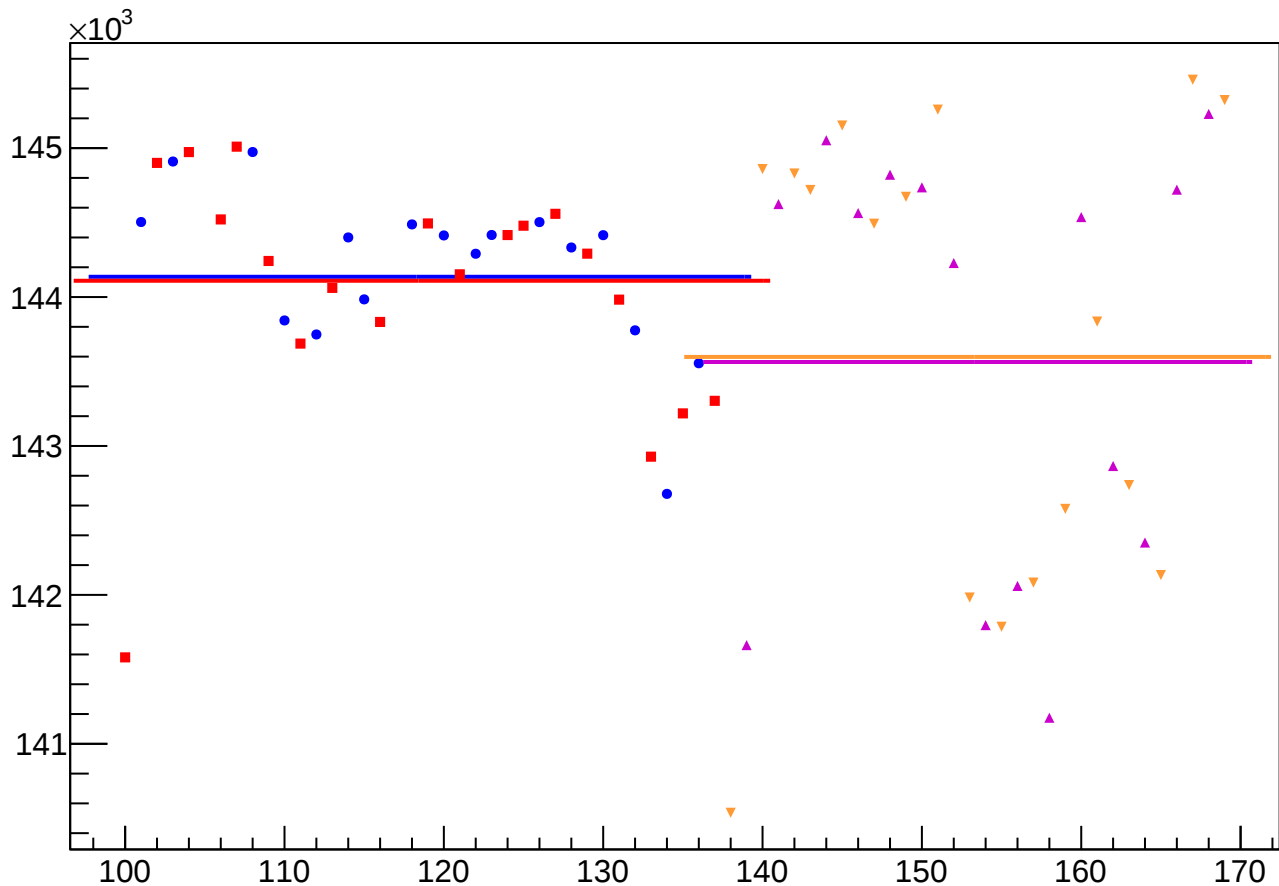
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 182.674 $\pm$ 0.031 χ^2 /NDF: 2198906.9/31

Out: 178.654 $\pm$ 0.030 χ^2 /NDF: 2762885.6/35

All: 180.561 $\pm$ 0.022 χ^2 /NDF: 4970364.3/67

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left Out: 143597.925 $\pm$ 0.059

χ^2 /NDF: 704600580.9/16

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Left In: 143563.824 $\pm$ 0.061

χ^2 /NDF: 553974353.7/14

Left: 143581.470 $\pm$ 0.043

χ^2 /NDF: 1258734112.8/3

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

In: 143826.429 $\pm$ 0.045

χ^2 /NDF: 640798700.5/31

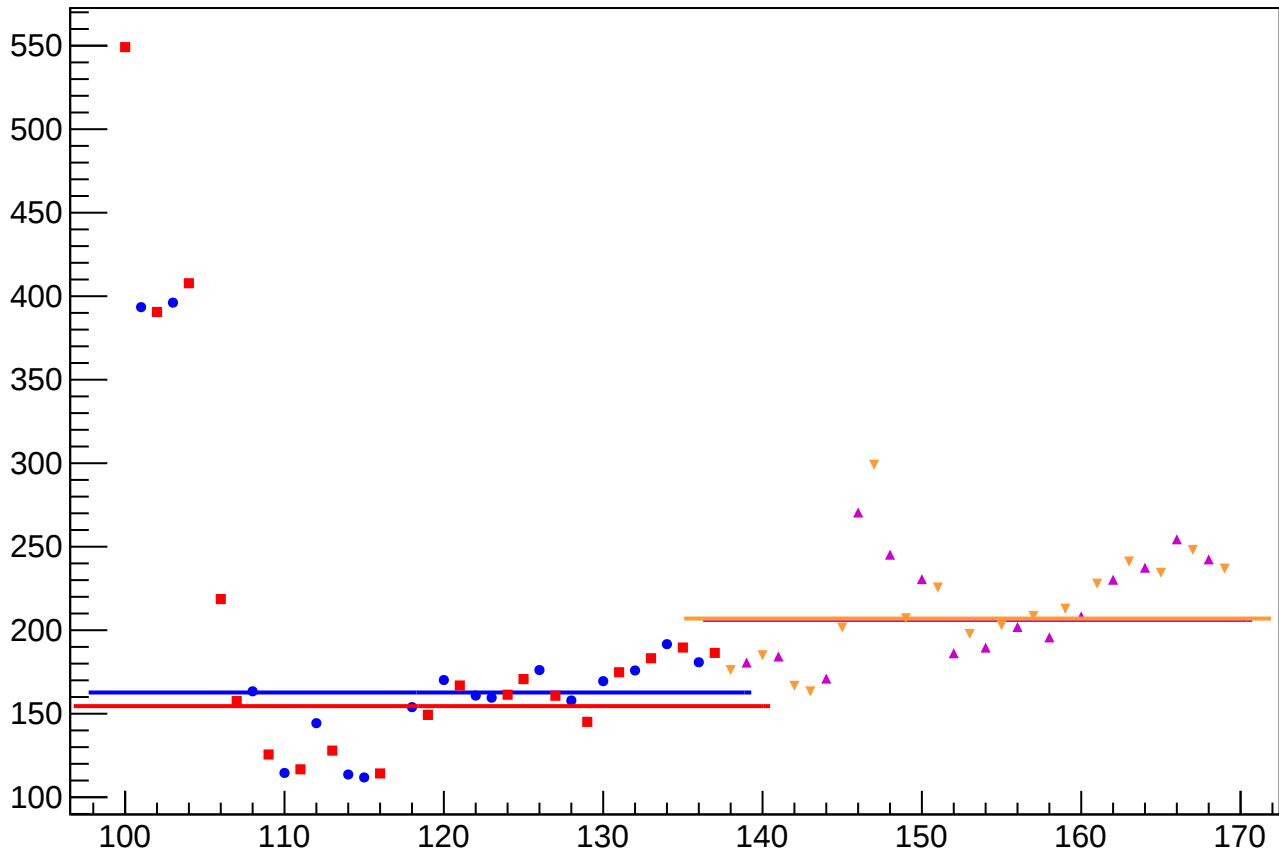
Out: 143843.161 $\pm$ 0.043

χ^2 /NDF: 805439356.4/35

All: 143835.249 $\pm$ 0.031

χ^2 /NDF: 144631019

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 206.999 $\pm$ 0.042 χ^2 /NDF:495790.7/16

Right Out: 154.547 $\pm$ 0.044 χ^2 /NDF: 1217495.9/18

Left In: 206.141 $\pm$ 0.043 χ^2 /NDF:417772.5/14

Left: 206.585 $\pm$ 0.030 χ^2 /NDF: 913764.8/31

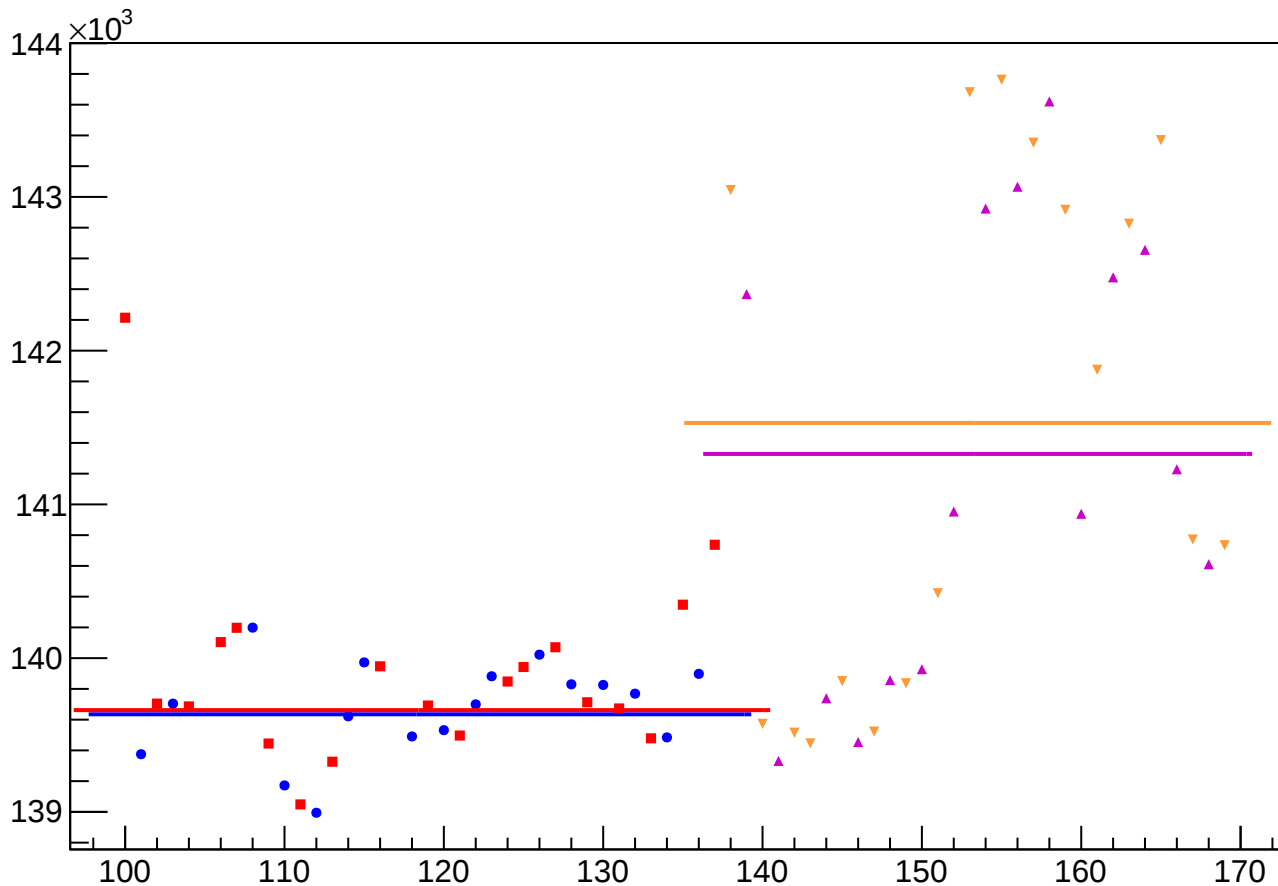
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 186.214 $\pm$ 0.032 χ^2 /NDF:1942073.9/31

Out: 181.851 $\pm$ 0.030 χ^2 /NDF:2461595.0/35

All: 183.914 $\pm$ 0.022 χ^2 /NDF: 4413478.9/67

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068

χ^2/NDF : 24844912.0/16

Left: 141431.827+/-0.044

χ^2/NDF : 1241686240.3/3

Left Out: 141530.180+/-0.062

χ^2/NDF : 718909792.3/16

Right: 139649.322+/-0.046

χ^2/NDF : 63304699.0/35

Right Out: 139661.970+/-0.063

χ^2/NDF : 38372985.0/18

In: 140536.650+/-0.046

χ^2/NDF : 874985150.6/31

Out: 140612.999+/-0.044

χ^2/NDF : 1204416076.8/3

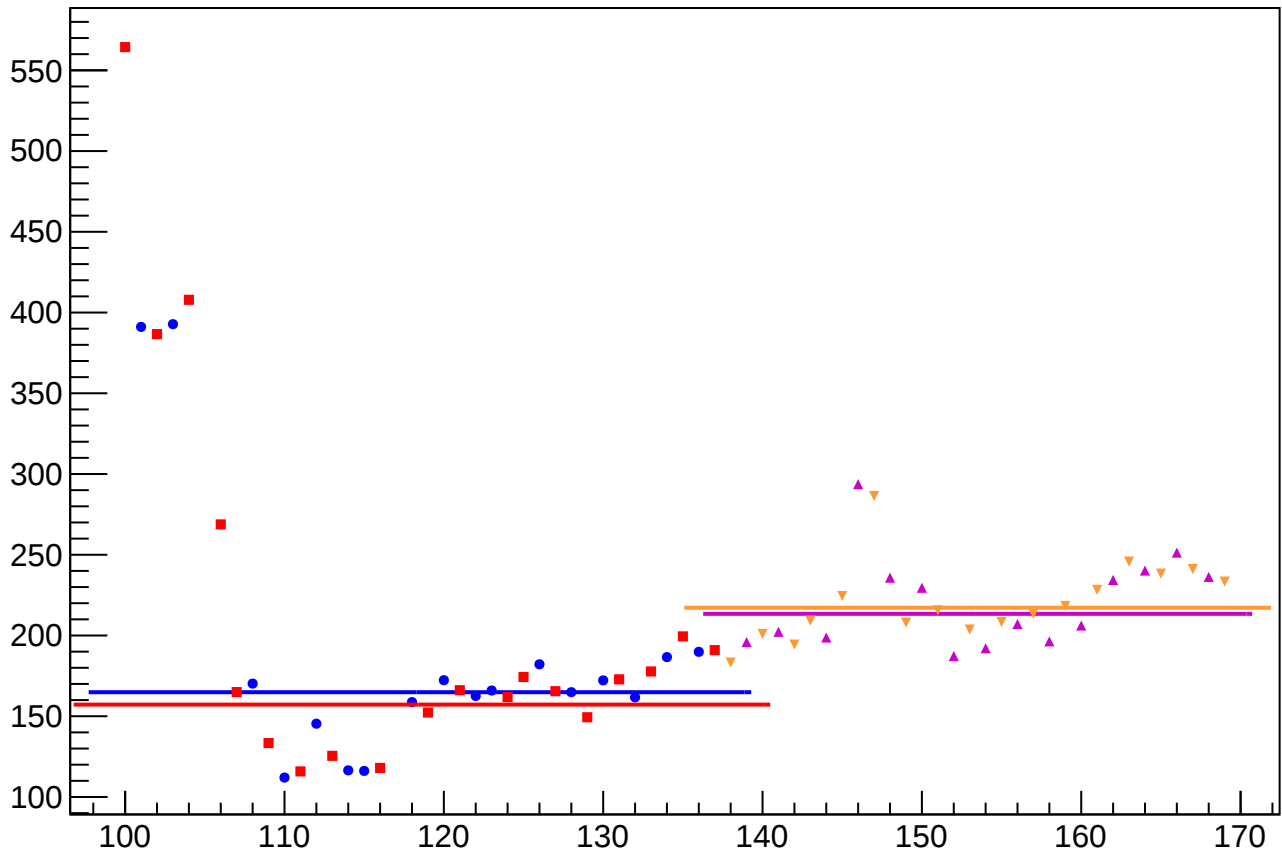
Left In: 141328.343+/-0.063

χ^2/NDF : 517596258.1/14

All: 140576.655+/-0.032

χ^2/NDF : 208082365

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 217.198 $\pm$ 0.044 χ^2 /NDF:233675.1/16

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: 215.358 $\pm$ 0.031 χ^2 /NDF: 535035.6/31

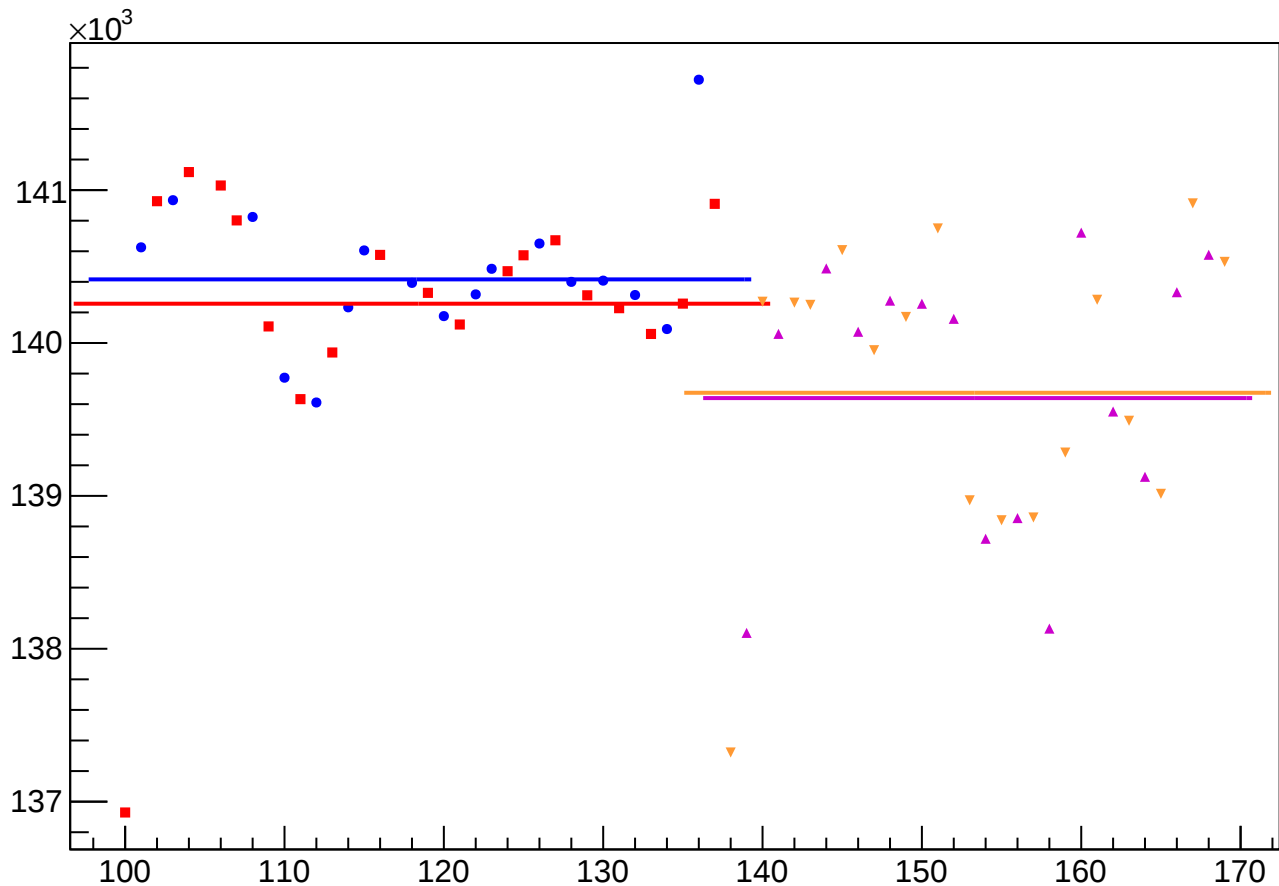
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 190.733 $\pm$ 0.033 χ^2 /NDF:1910252.3/31

Out: 187.746 $\pm$ 0.031 χ^2 /NDF:2400820.8/35

All: 189.168 $\pm$ 0.023 χ^2 /NDF: 4315426.9/67

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 ± 0.068 $\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139674.434 ± 0.058 $\chi^2/\text{NDF}: 280107226.0/16$

Right Out: 140256.992 ± 0.063 $\chi^2/\text{NDF}: 38063371.4/18$

Left In: 139639.643 ± 0.060 $\chi^2/\text{NDF}: 223641369.4/14$

Left: 139657.659 ± 0.042 $\chi^2/\text{NDF}: 503921101.8/31$

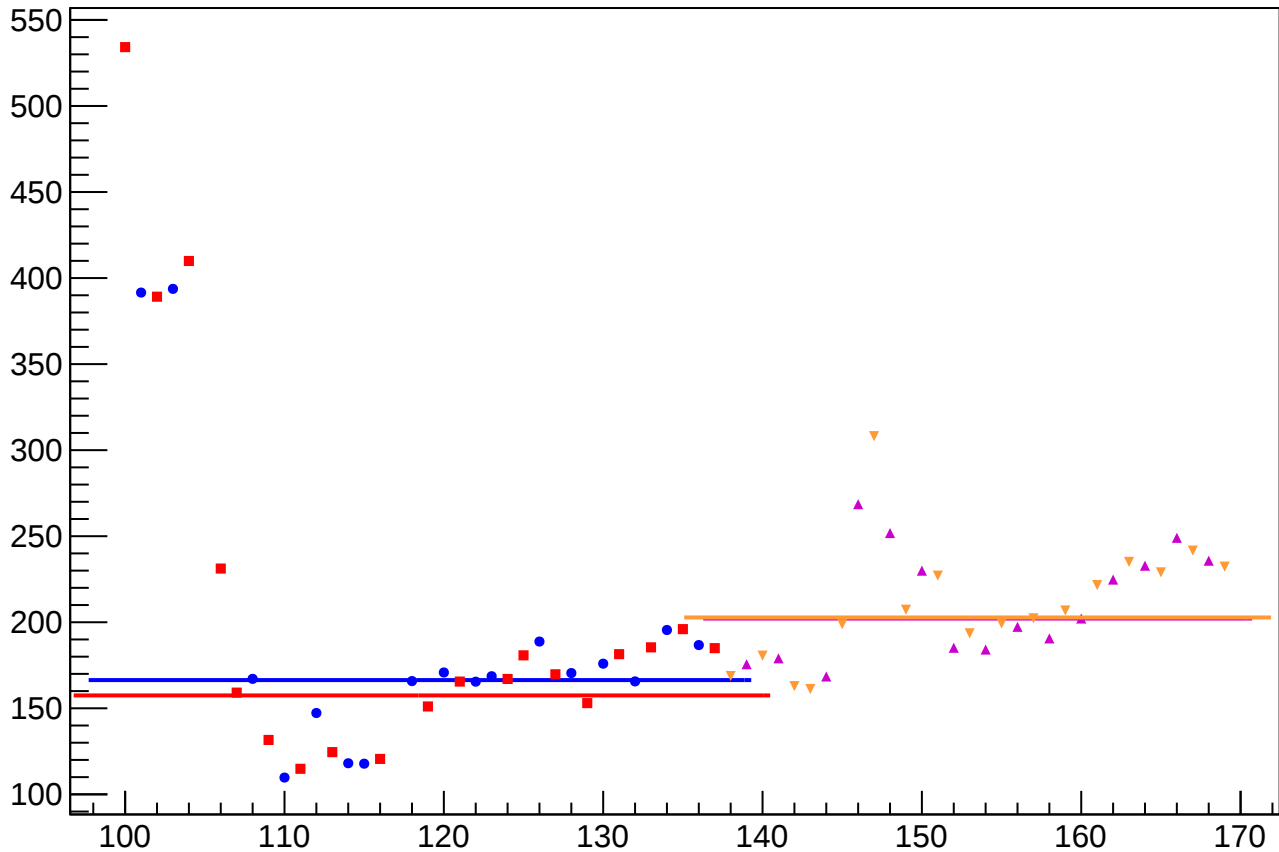
Right: 140330.188 ± 0.046 $\chi^2/\text{NDF}: 110959487.0/3$

In: 139979.071 ± 0.045 $\chi^2/\text{NDF}: 366150214.1/31$

Out: 139941.854 ± 0.043 $\chi^2/\text{NDF}: 364215568.6/35$

All: 139959.431 ± 0.031 $\chi^2/\text{NDF}: 730723216$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 202.779 $\pm$ 0.041 χ^2 /NDF: 542136.6/16

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 202.136 $\pm$ 0.043 χ^2 /NDF: 451688.8/14

Left: 202.469 $\pm$ 0.030 χ^2 /NDF: 993943.0/31

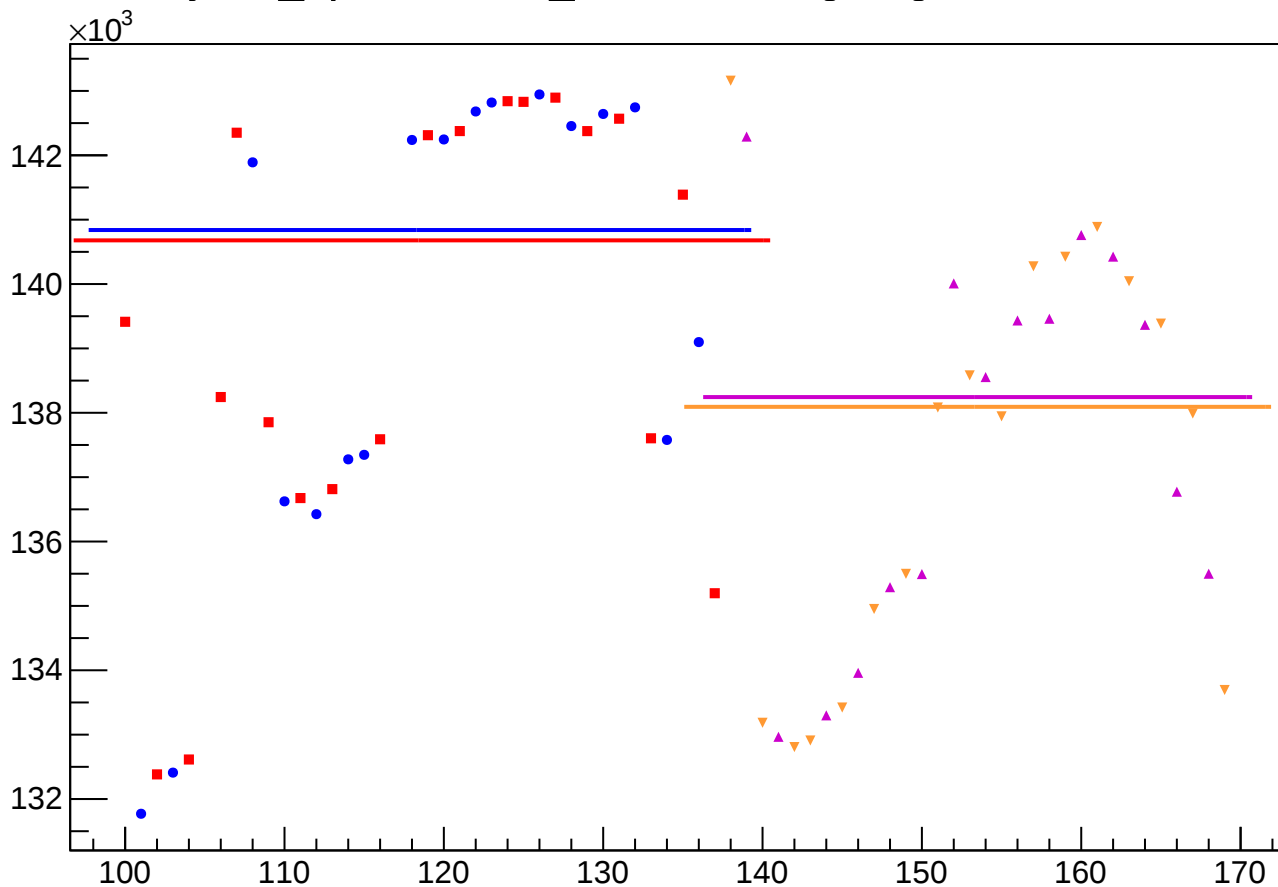
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 186.508 $\pm$ 0.032 χ^2 /NDF: 1840187.4/31

Out: 181.982 $\pm$ 0.030 χ^2 /NDF: 2328951.2/35

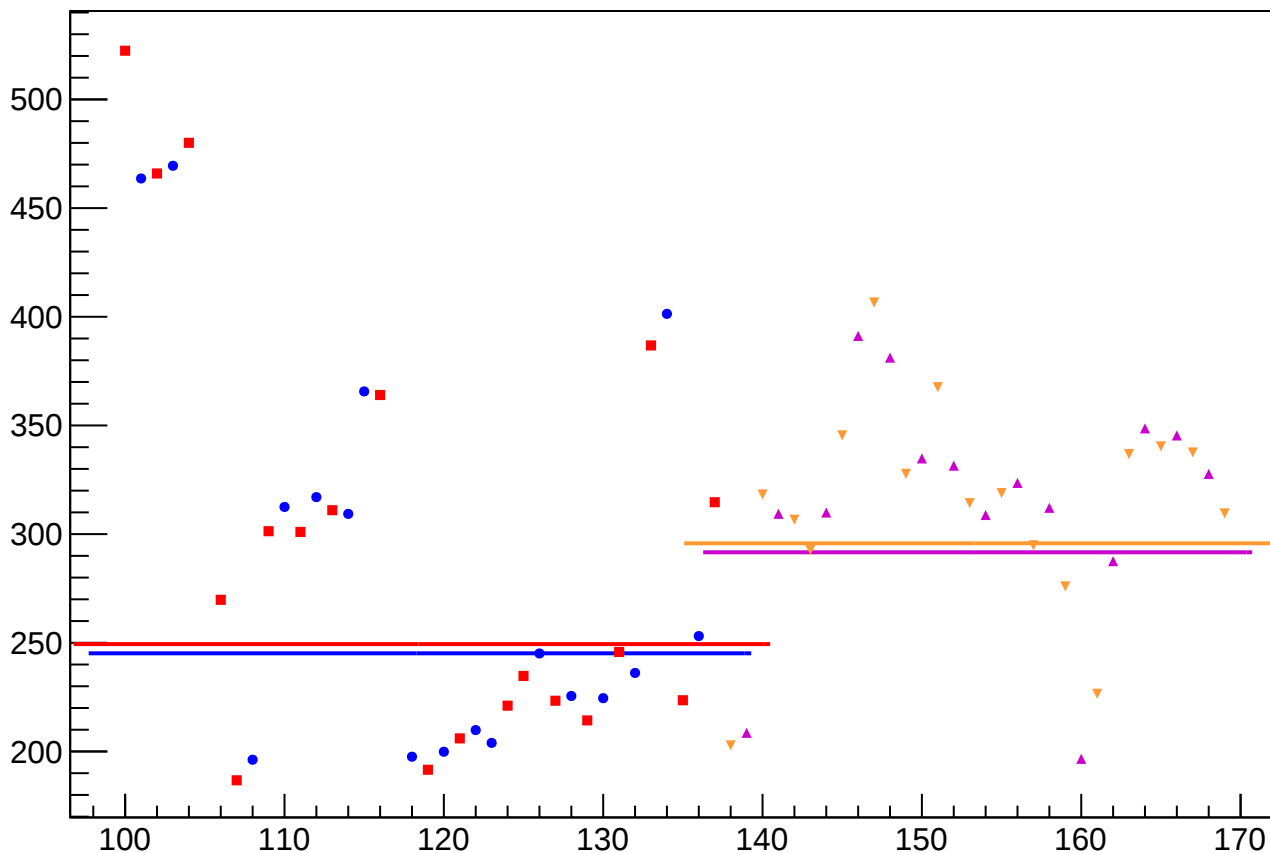
All: 184.120 $\pm$ 0.022 χ^2 /NDF: 4179709.9/67

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138165.872 $\pm$ 0.062	χ^2/NDF : 2740100134.5/3
Left Out: 138092.429 $\pm$ 0.086	χ^2/NDF : 1563791113.3/16	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: 139199.575 $\pm$ 0.065	χ^2/NDF : 2793926767.8/3
		All: 139289.462 $\pm$ 0.046	χ^2/NDF : 517303194.2/14

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 295.780 $\pm$ 0.061 χ^2 /NDF: 760778.7/16

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: 293.774 $\pm$ 0.044 χ^2 /NDF: 1686368.7/31

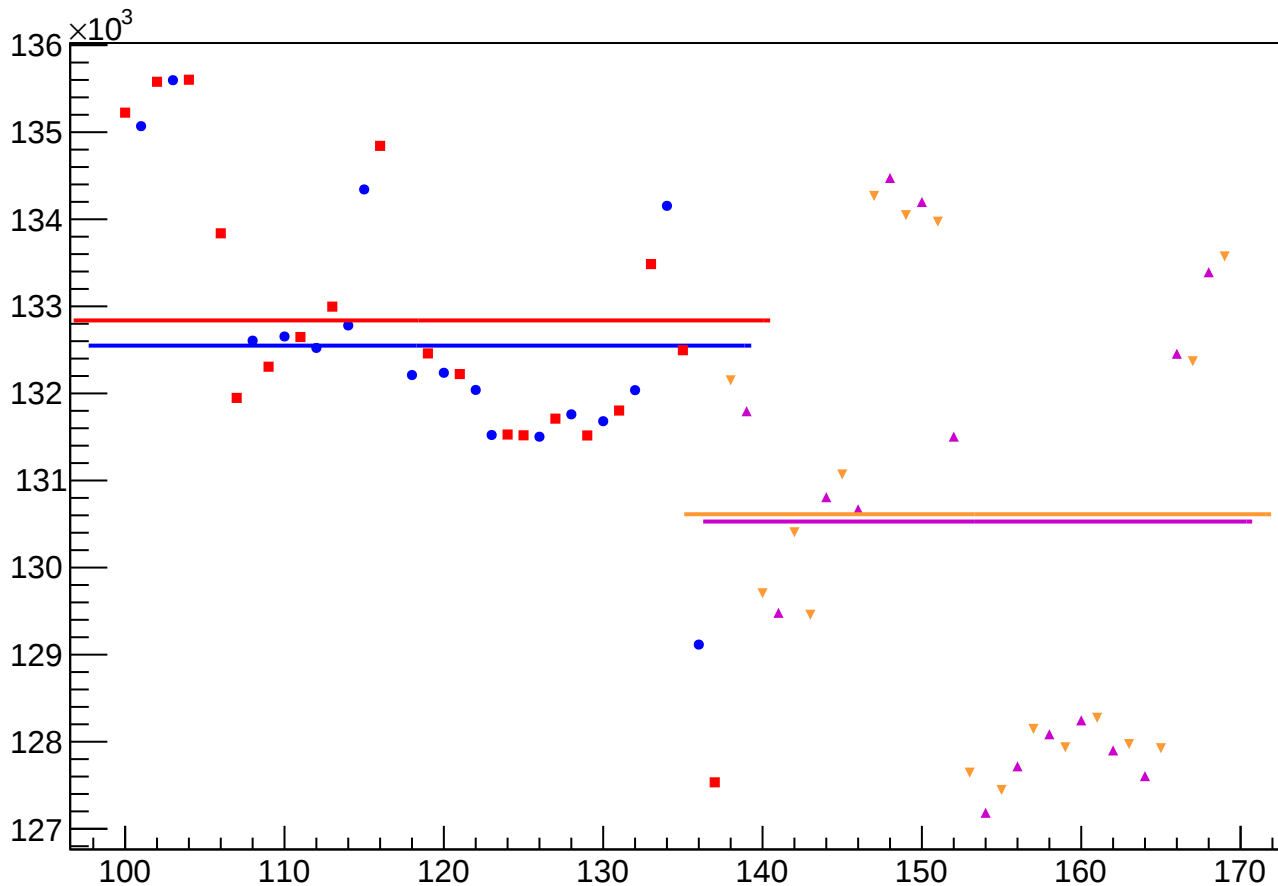
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 271.233 $\pm$ 0.047 χ^2 /NDF: 2035150.3/31

Out: 275.923 $\pm$ 0.046 χ^2 /NDF: 2021070.9/35

All: 273.629 $\pm$ 0.033 χ^2 /NDF: 4061338.2/67

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 130612.494 $\pm$ 0.075 χ^2 /NDF: 834146106.7/16

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: 130573.640 $\pm$ 0.055 χ^2 /NDF: 1519230892.8/3

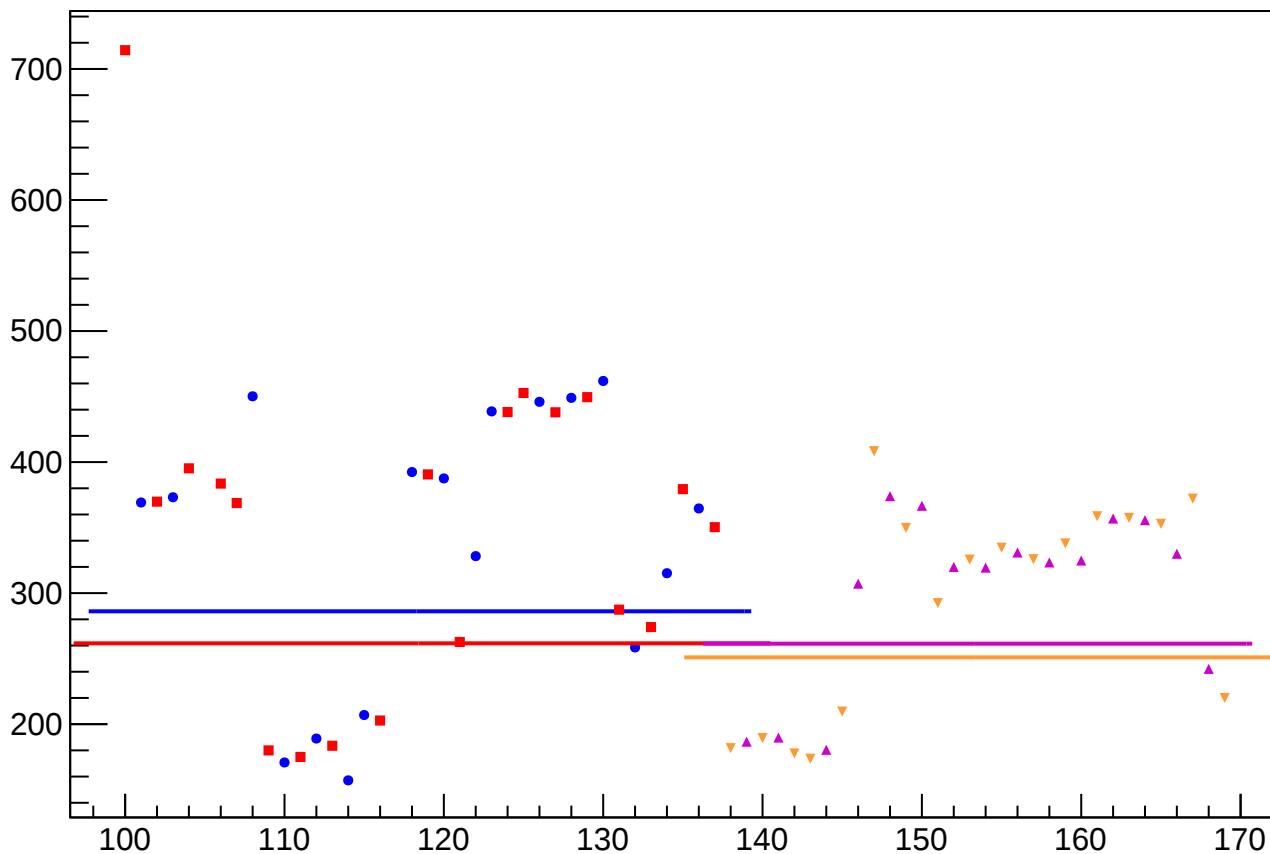
Right: 132709.226 $\pm$ 0.080 χ^2 /NDF: 313982981.1/3

In: 131158.978 $\pm$ 0.067 χ^2 /NDF: 1042673750.8/3

Out: 131340.761 $\pm$ 0.061 χ^2 /NDF: 1274348028.7/3

All: 131257.552 $\pm$ 0.045 χ^2 /NDF: 232105209

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 250.967+/-0.053 χ^2/NDF :2130811.4/16

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: 255.808+/-0.039 χ^2/NDF : 3793197.1/31

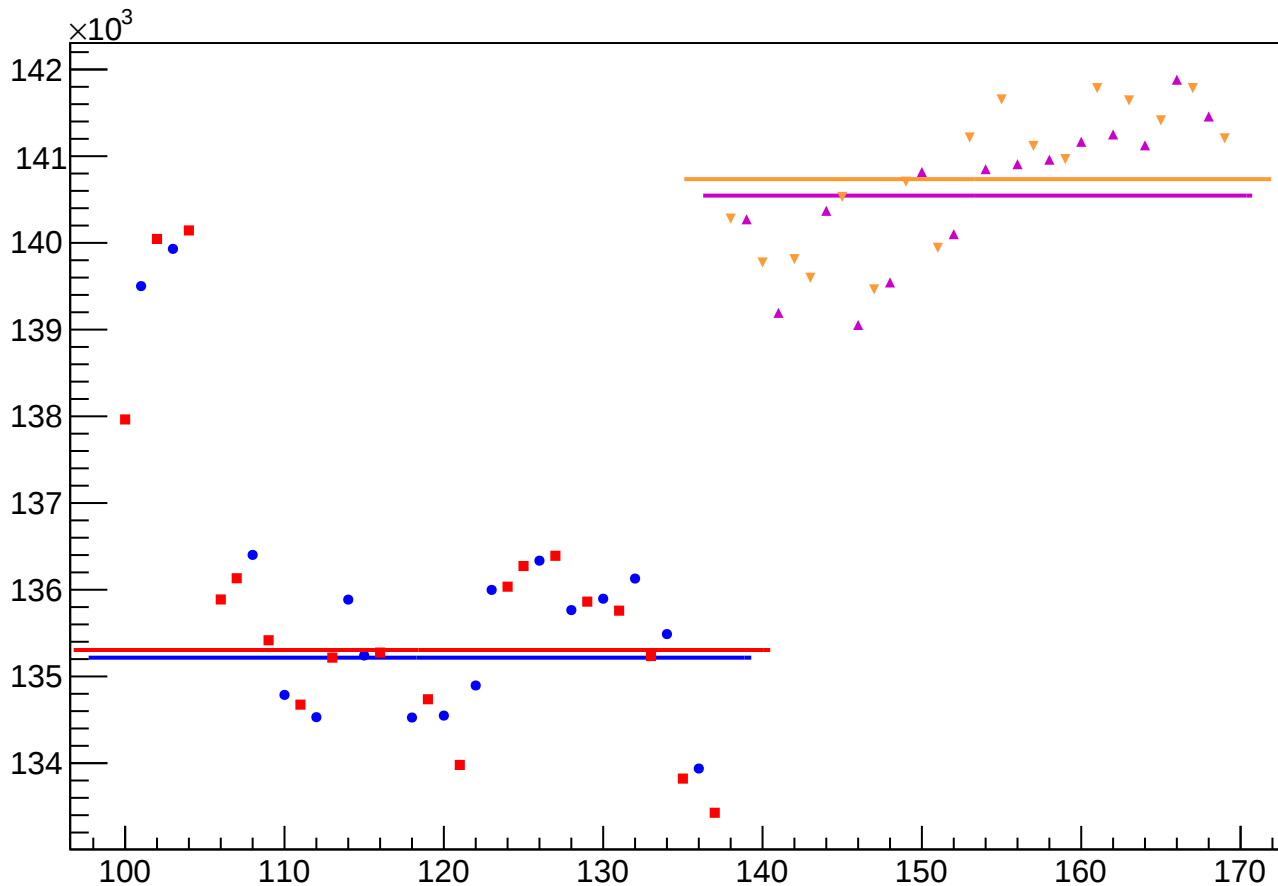
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 269.125+/-0.047 χ^2/NDF :3228454.0/31

Out: 254.474+/-0.043 χ^2/NDF :3767465.0/35

All: 261.180+/-0.032 χ^2/NDF : 7048277.0/67

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054

χ^2 /NDF: 371347707.3/16

Left Out: 140735.317 $\pm$ 0.054

χ^2 /NDF: 198006917.2/16

Right Out: 135305.135 $\pm$ 0.051

χ^2 /NDF: 357636841.6/18

Left In: 140545.457 $\pm$ 0.058

χ^2 /NDF: 164483773.7/14

Left: 140646.236 $\pm$ 0.040

χ^2 /NDF: 368207474.1/31

Right: 135263.557 $\pm$ 0.037

χ^2 /NDF: 730392205.8/31

In: 137715.112 $\pm$ 0.040

χ^2 /NDF: 5042160952.4/31

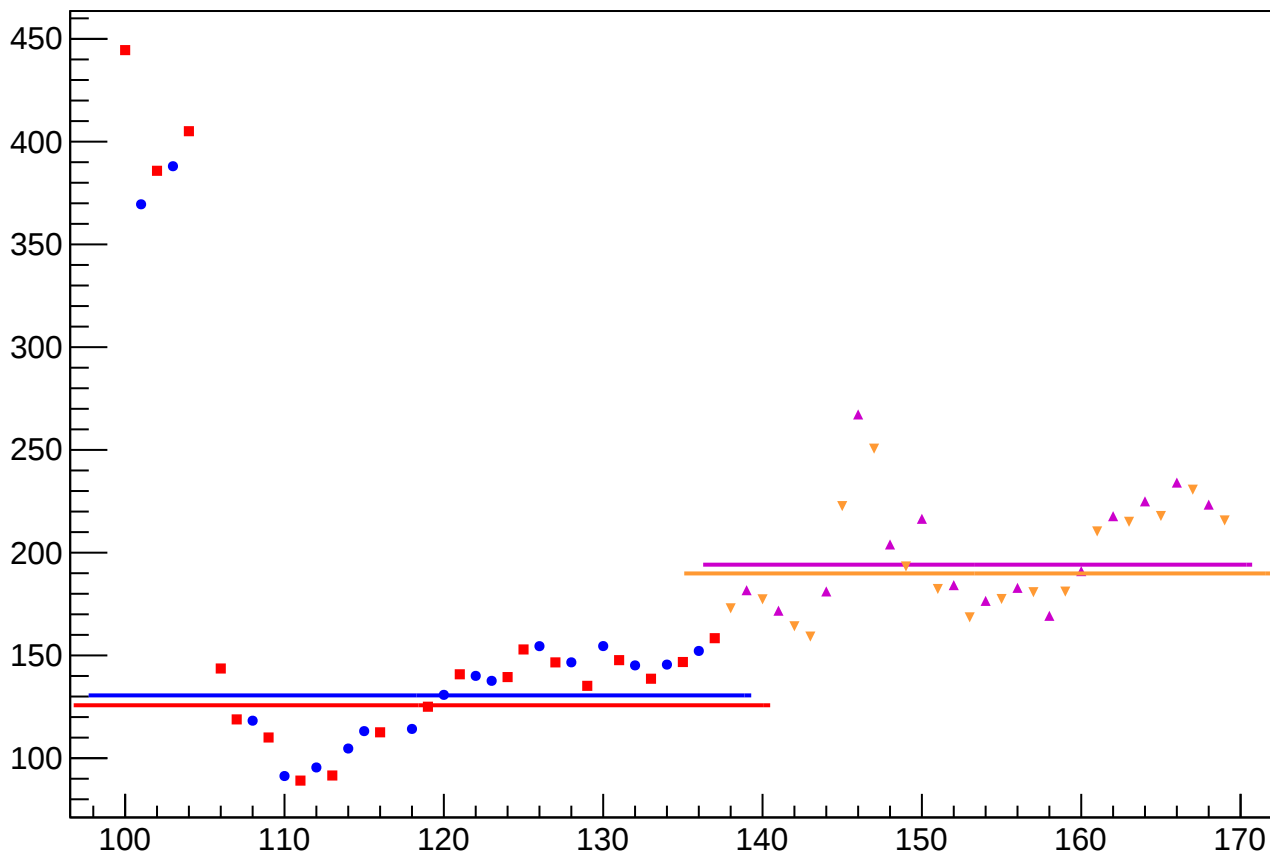
Out: 137853.154 $\pm$ 0.037

χ^2 /NDF: 5845828268.2/31

All: 137788.359 $\pm$ 0.027

χ^2 /NDF: 108944324.1/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 ± 0.038 $\chi^2/\text{NDF}: 1373104.9/16$

Left Out: 189.891 ± 0.038 $\chi^2/\text{NDF}: 378336.9/16$

Right Out: 125.746 ± 0.036 $\chi^2/\text{NDF}: 1440002.5/18$

Left In: 194.160 ± 0.041 $\chi^2/\text{NDF}: 338442.1/14$

Left: 191.894 ± 0.028 $\chi^2/\text{NDF}: 722558.2/31$

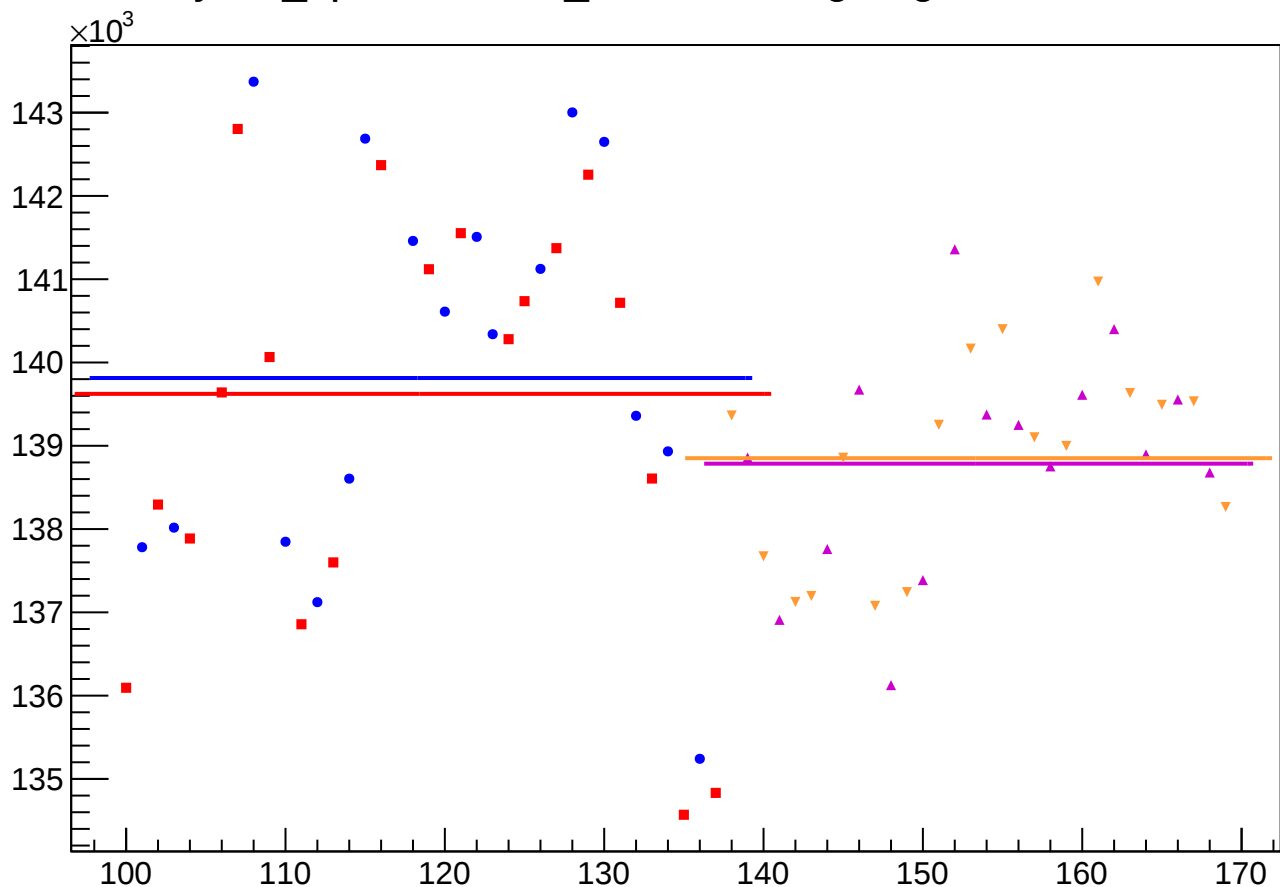
Right: 128.002 ± 0.026 $\chi^2/\text{NDF}: 2821400.9/35$

In: 160.375 ± 0.028 $\chi^2/\text{NDF}: 2995668.2/31$

Out: 155.845 ± 0.026 $\chi^2/\text{NDF}: 3294739.0/35$

All: 157.971 ± 0.019 $\chi^2/\text{NDF}: 6304287.2/67$

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2/NDF : 1689865533.6/16

Left Out: 138851.065 $\pm$ 0.056

χ^2/NDF : 446500998.3/16

Right Out: 139623.387 $\pm$ 0.059

χ^2/NDF : 1505731109.1/18

Left In: 138785.160 $\pm$ 0.058

χ^2/NDF : 524120698.0/14

Left: 138819.546 $\pm$ 0.040

χ^2/NDF : 971287094.6/31

Right: 139713.961 $\pm$ 0.043

χ^2/NDF : 3200544274.5/16

In: 139268.971 $\pm$ 0.042

χ^2/NDF : 2360090317.6/31

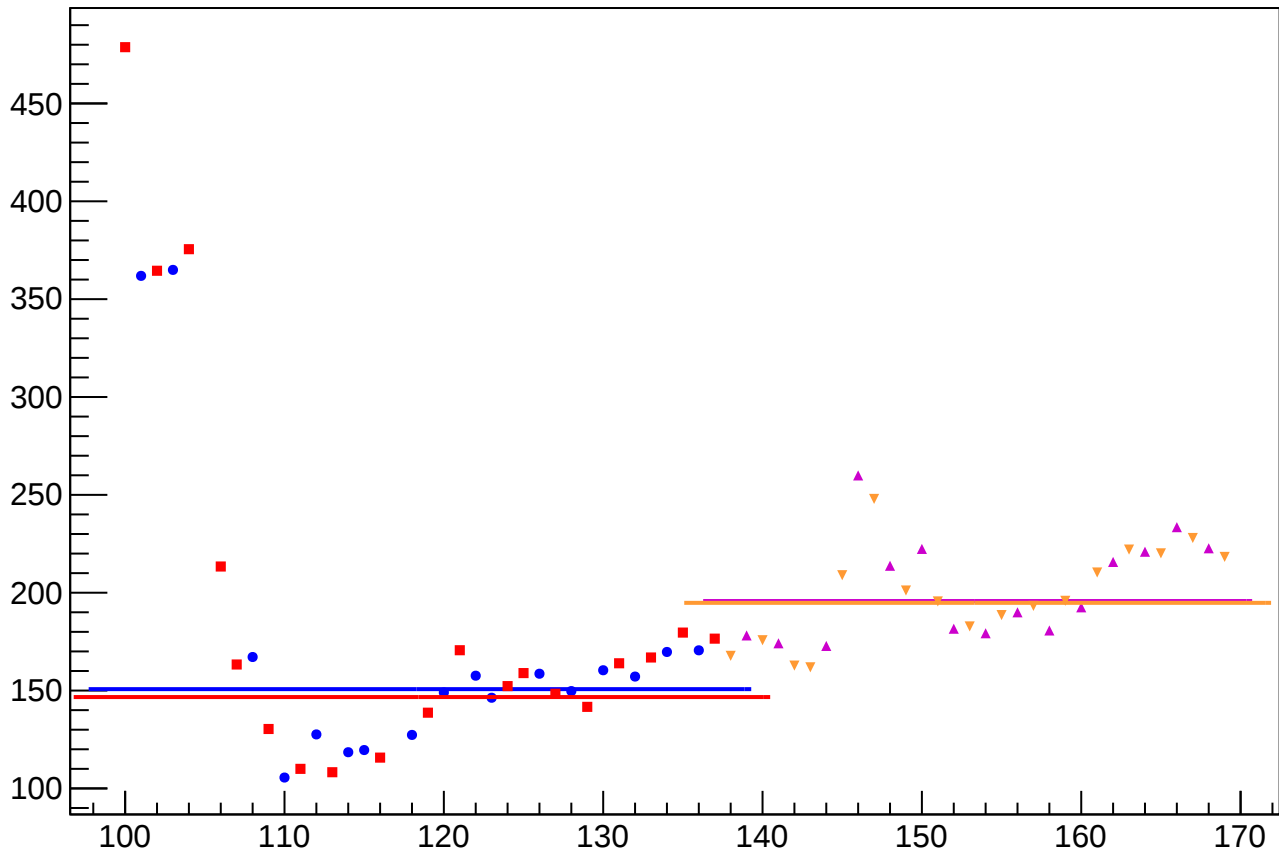
Out: 139216.096 $\pm$ 0.041

χ^2/NDF : 2042537340.7/31

All: 139241.328 $\pm$ 0.029

χ^2/NDF : 440343800.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 194.827 $\pm$ 0.040 χ^2 /NDF:324831.3/16

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: 195.269 $\pm$ 0.029 χ^2 /NDF: 639521.6/31

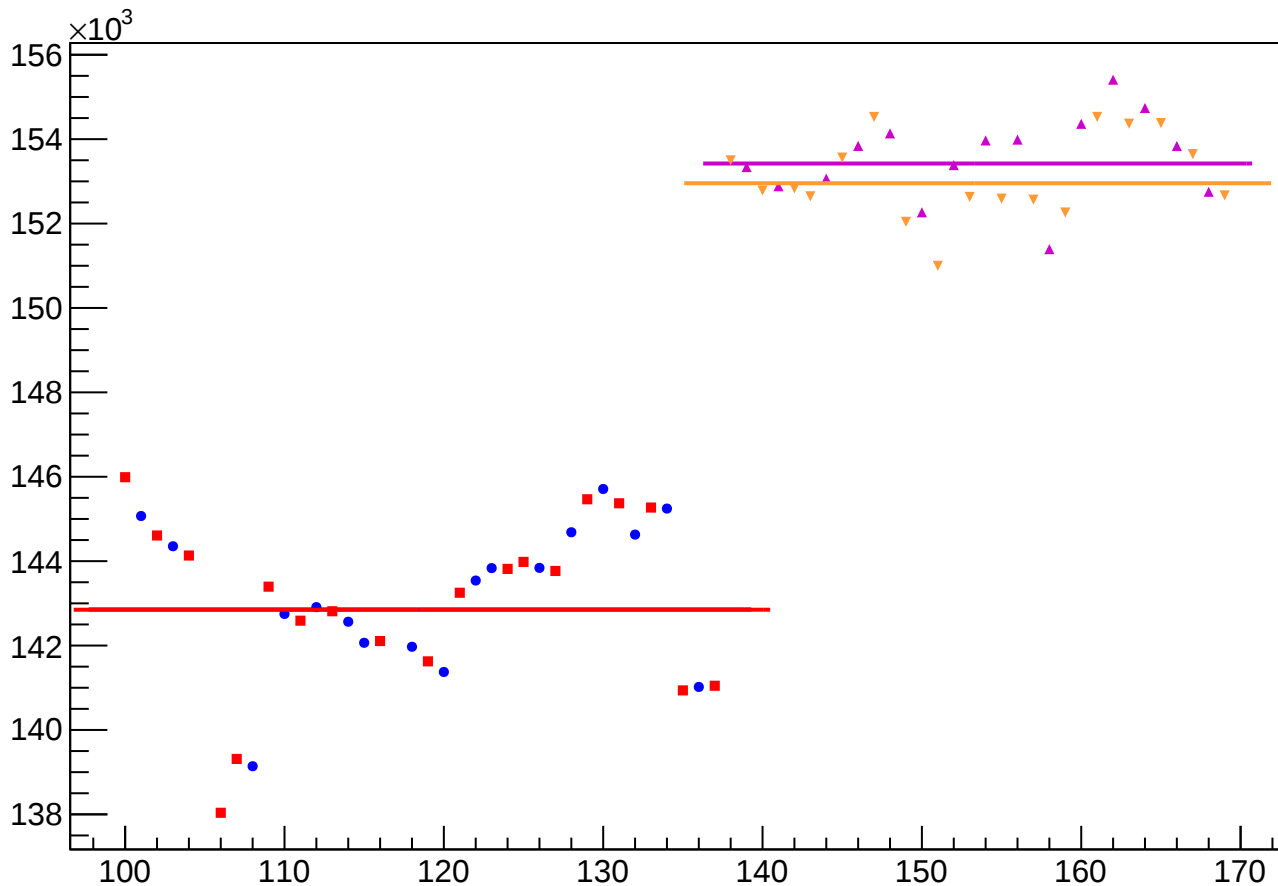
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 174.574 $\pm$ 0.030 χ^2 /NDF:1924327.7/31

Out: 172.073 $\pm$ 0.029 χ^2 /NDF:2229678.8/35

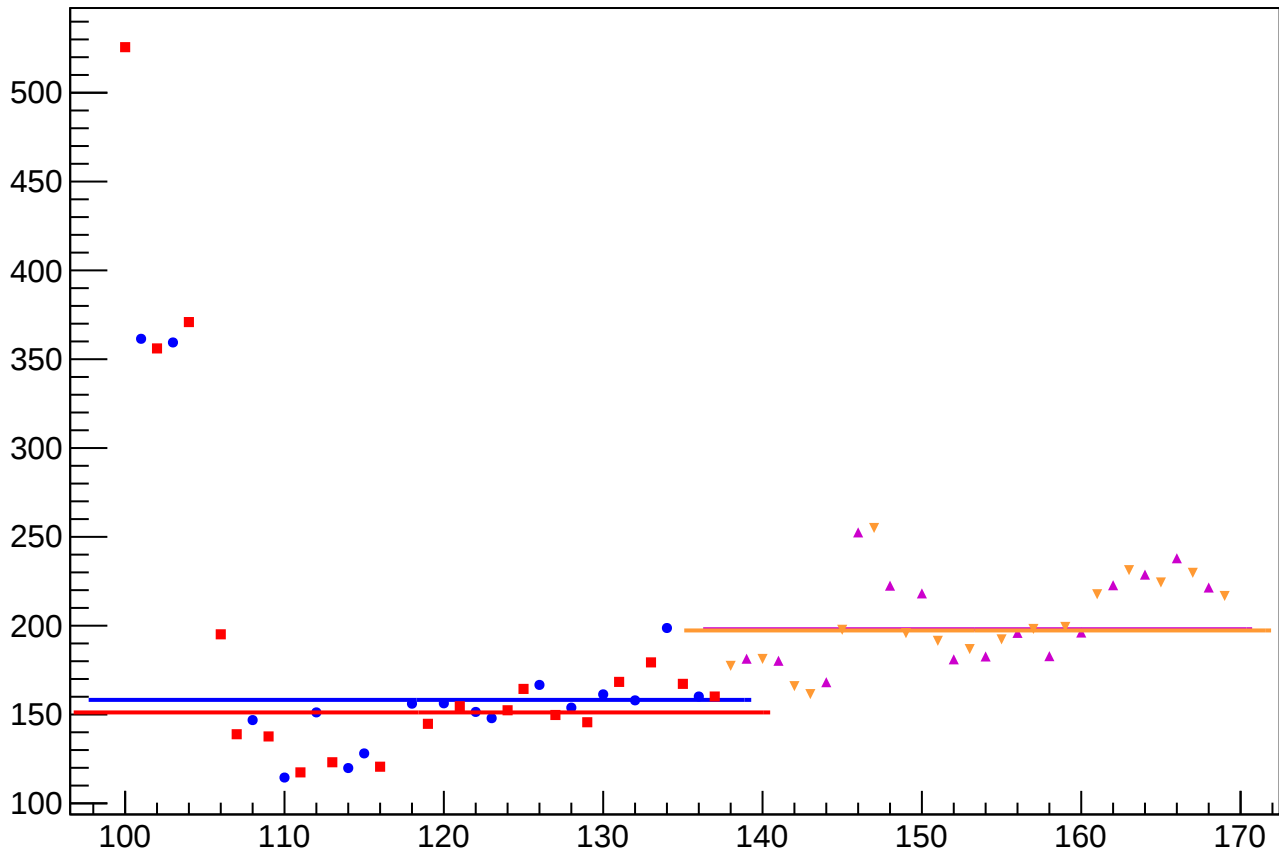
All: 173.267 $\pm$ 0.021 χ^2 /NDF: 4157633.0/67

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153179.337 $\pm$ 0.041	χ^2 /NDF: 559301351.9/31
Left Out: 152955.679 $\pm$ 0.057	χ^2 /NDF: 260583721.4/16	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/31
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 148625.571 $\pm$ 0.044	χ^2 /NDF: 15593988100.6/31
Left In: 153422.822 $\pm$ 0.059	χ^2 /NDF: 265991259.8/14	Out: 148238.745 $\pm$ 0.041	χ^2 /NDF: 16042572736.1/31
		All: 148421.659 $\pm$ 0.030	χ^2 /NDF: 316781211.9/100

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 197.319+/-0.040 χ^2/NDF : 315203.1/16

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: 197.650+/-0.029 χ^2/NDF : 628290.1/31

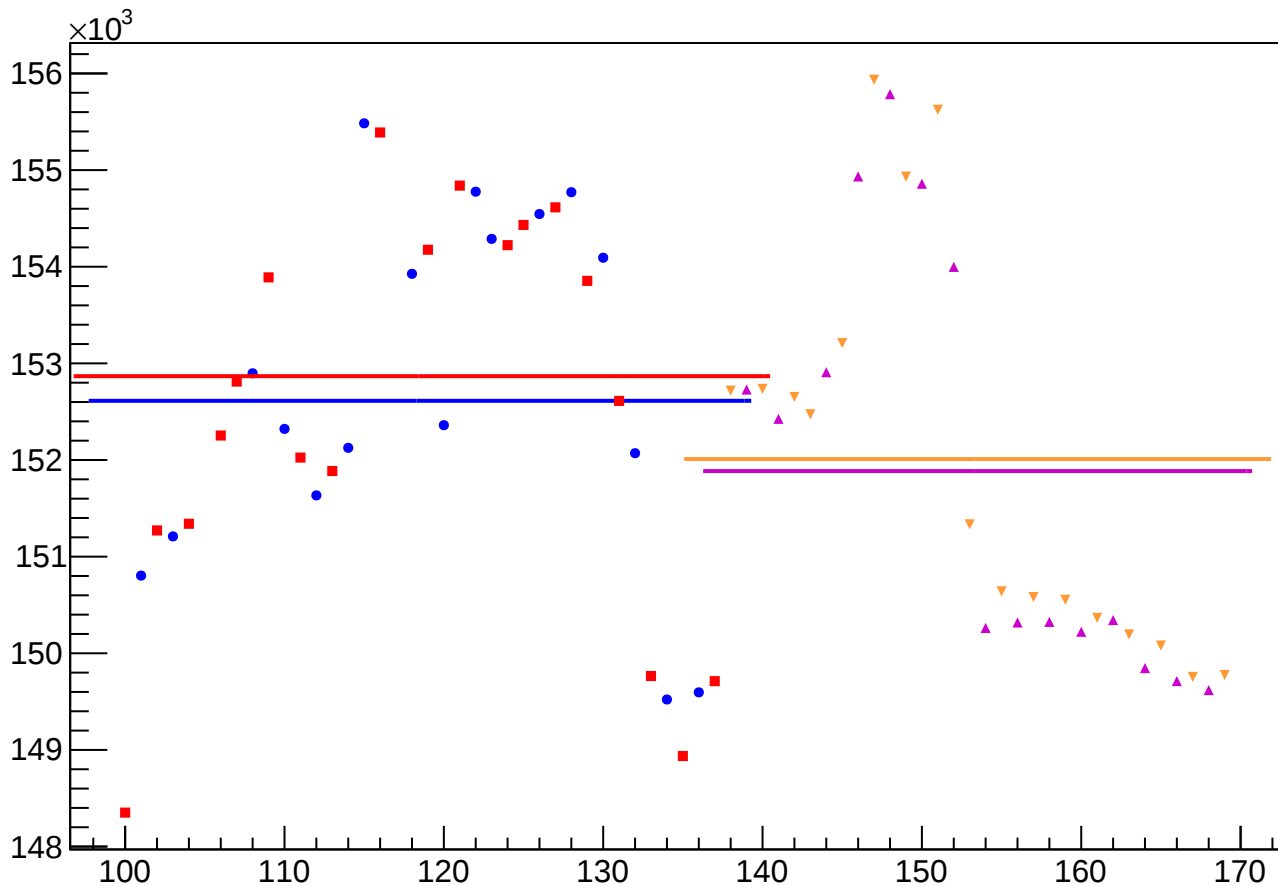
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 179.954+/-0.031 χ^2/NDF : 1609752.2/31

Out: 175.782+/-0.029 χ^2/NDF : 1941101.8/35

All: 177.755+/-0.021 χ^2/NDF : 3560526.1/67

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152010.597 $\pm$ 0.057 χ^2 /NDF: 1082282977.5/16

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: 151950.693 $\pm$ 0.041 χ^2 /NDF: 2177544358.6/3

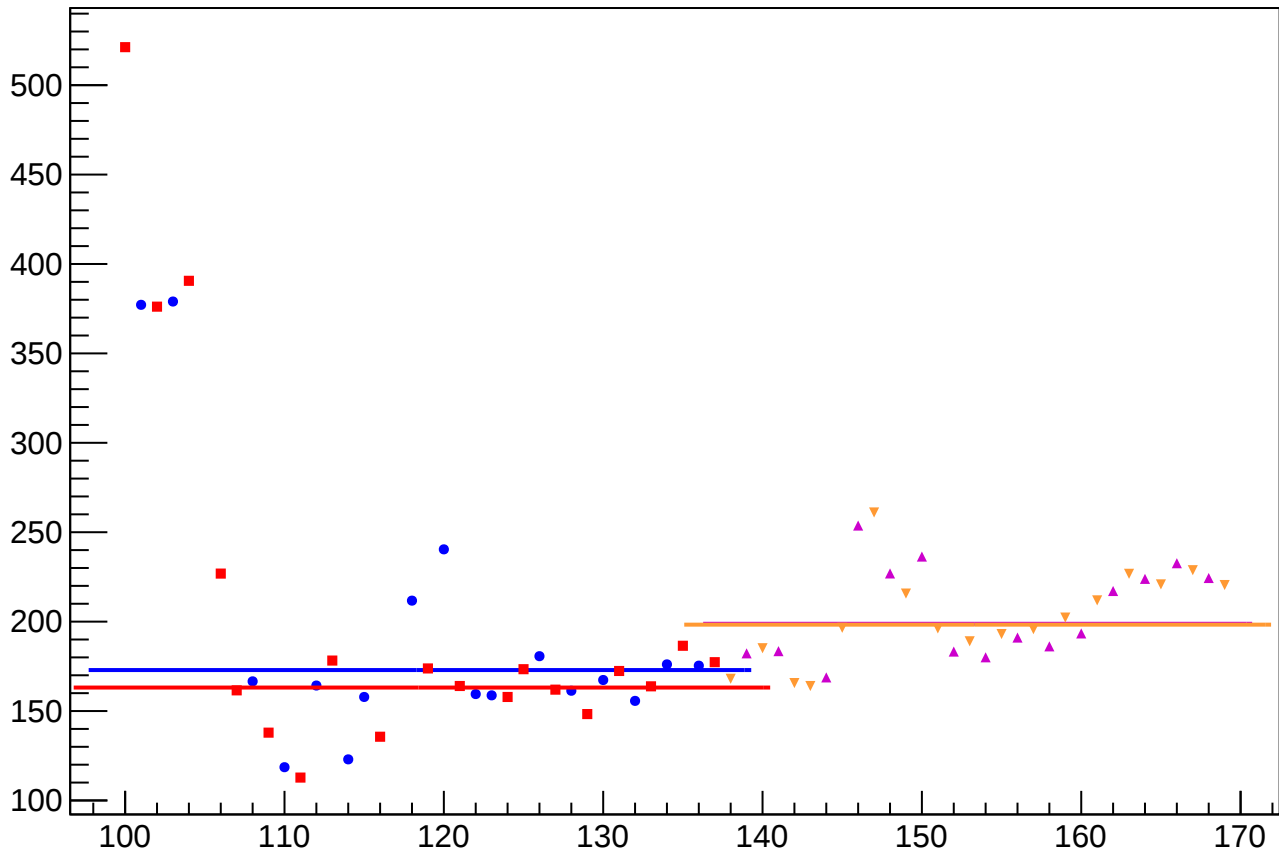
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/3

In: 152177.037 $\pm$ 0.046 χ^2 /NDF: 1775148943.3/3

Out: 152372.119 $\pm$ 0.043 χ^2 /NDF: 1898159113.7/3

All: 152280.487 $\pm$ 0.031 χ^2 /NDF: 368297092

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921 ± 0.051 χ^2/NDF : 941954.0/16

Left Out: 198.311 ± 0.040 χ^2/NDF : 334785.9/16

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: 198.544 ± 0.029 χ^2/NDF : 663061.3/31

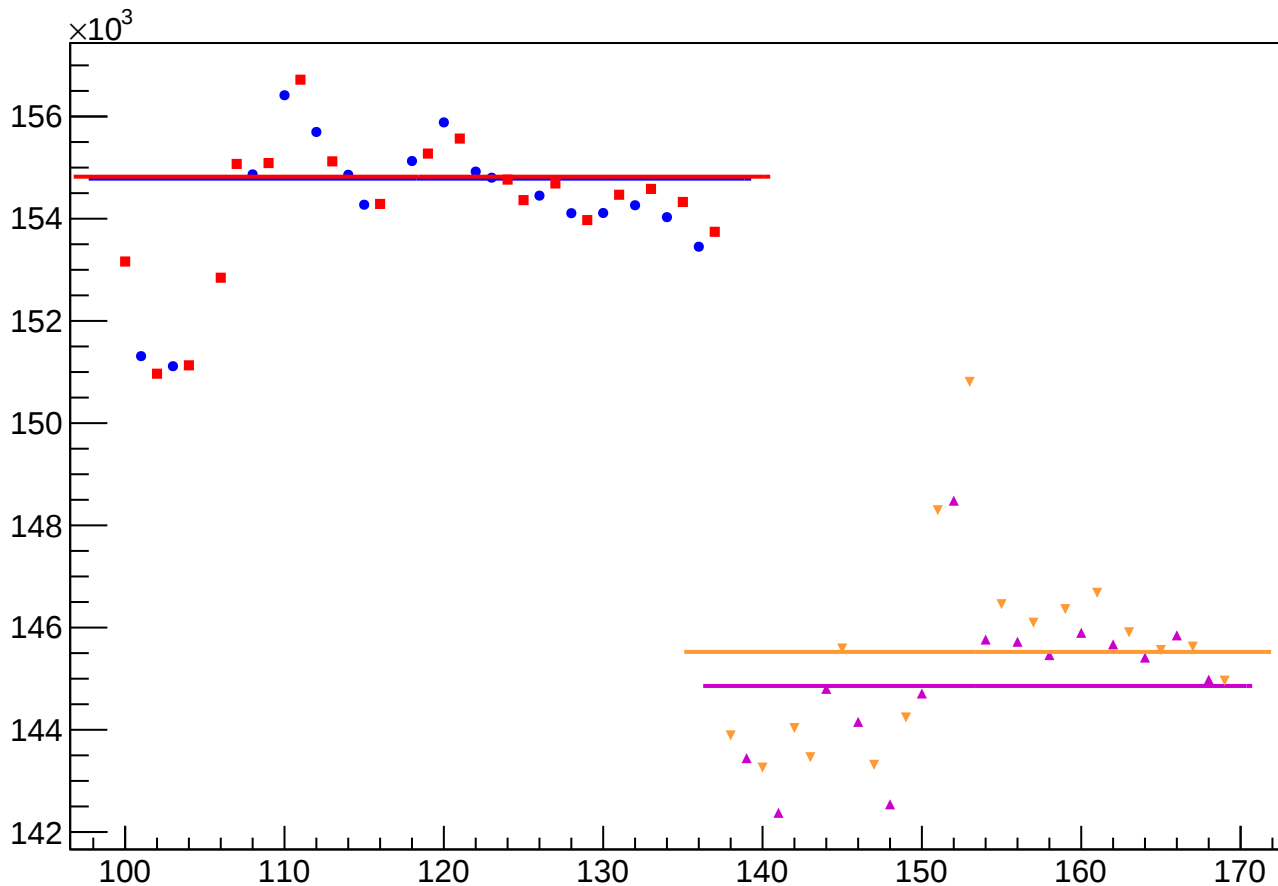
Right: 167.610 ± 0.034 χ^2/NDF : 1995658.5/35

In: 188.420 ± 0.032 χ^2/NDF : 1424182.3/31

Out: 183.471 ± 0.030 χ^2/NDF : 1694747.0/35

All: 185.796 ± 0.022 χ^2/NDF : 3131368.5/67

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065 χ^2 /NDF: 265581398.0/16

Left Out: 145523.919 $\pm$ 0.053 χ^2 /NDF: 1487155573.9/16

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: 145206.985 $\pm$ 0.038 χ^2 /NDF: 2385166289.6/3

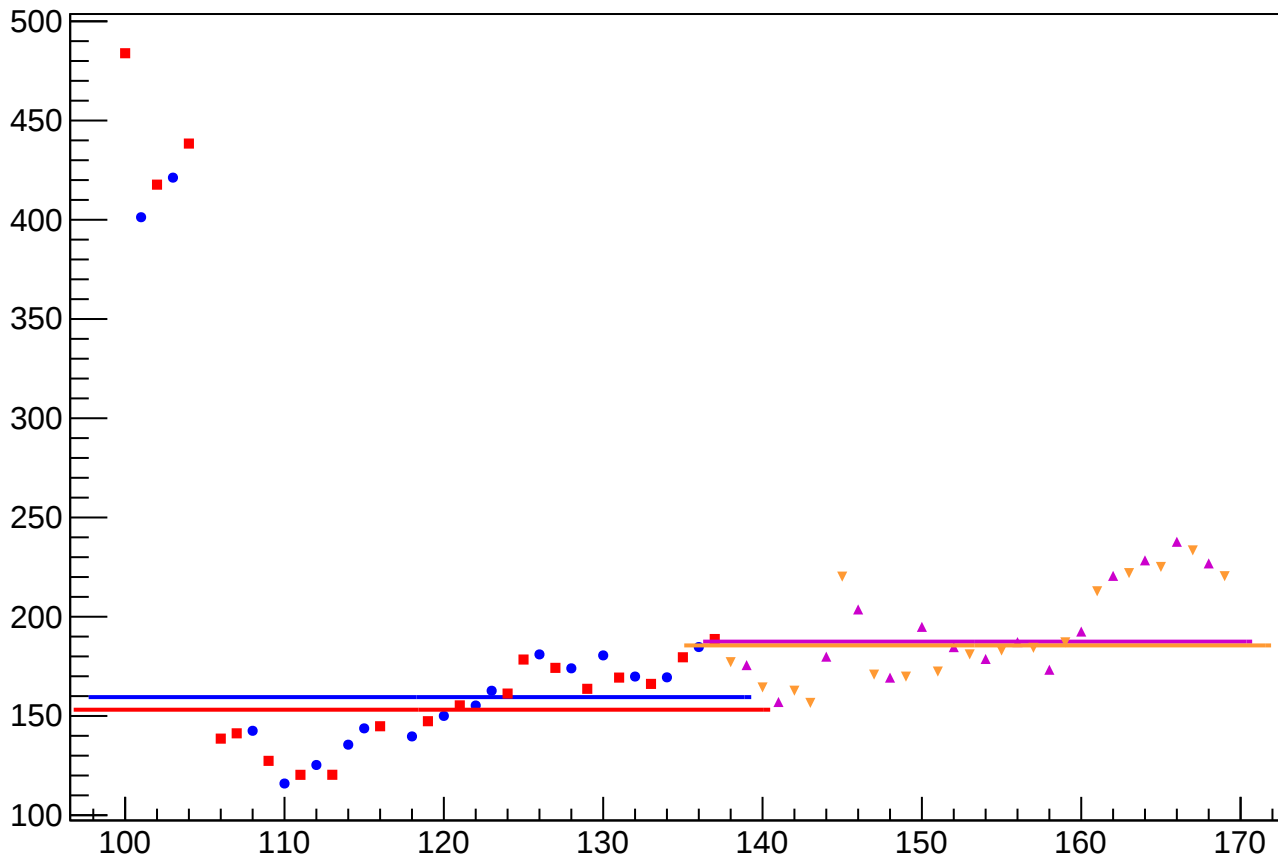
Right: 154804.381 $\pm$ 0.045 χ^2 /NDF: 559614489.4/3

In: 149015.253 $\pm$ 0.042 χ^2 /NDF: 14488824404.6/3

Out: 149520.509 $\pm$ 0.040 χ^2 /NDF: 15077755616.1

All: 149282.531 $\pm$ 0.029 χ^2 /NDF: 296420362

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2 /NDF: 1131844.5/16

Left Out: 185.541 $\pm$ 0.037 χ^2 /NDF: 370419.4/16

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: 186.451 $\pm$ 0.027 χ^2 /NDF: 662209.6/31

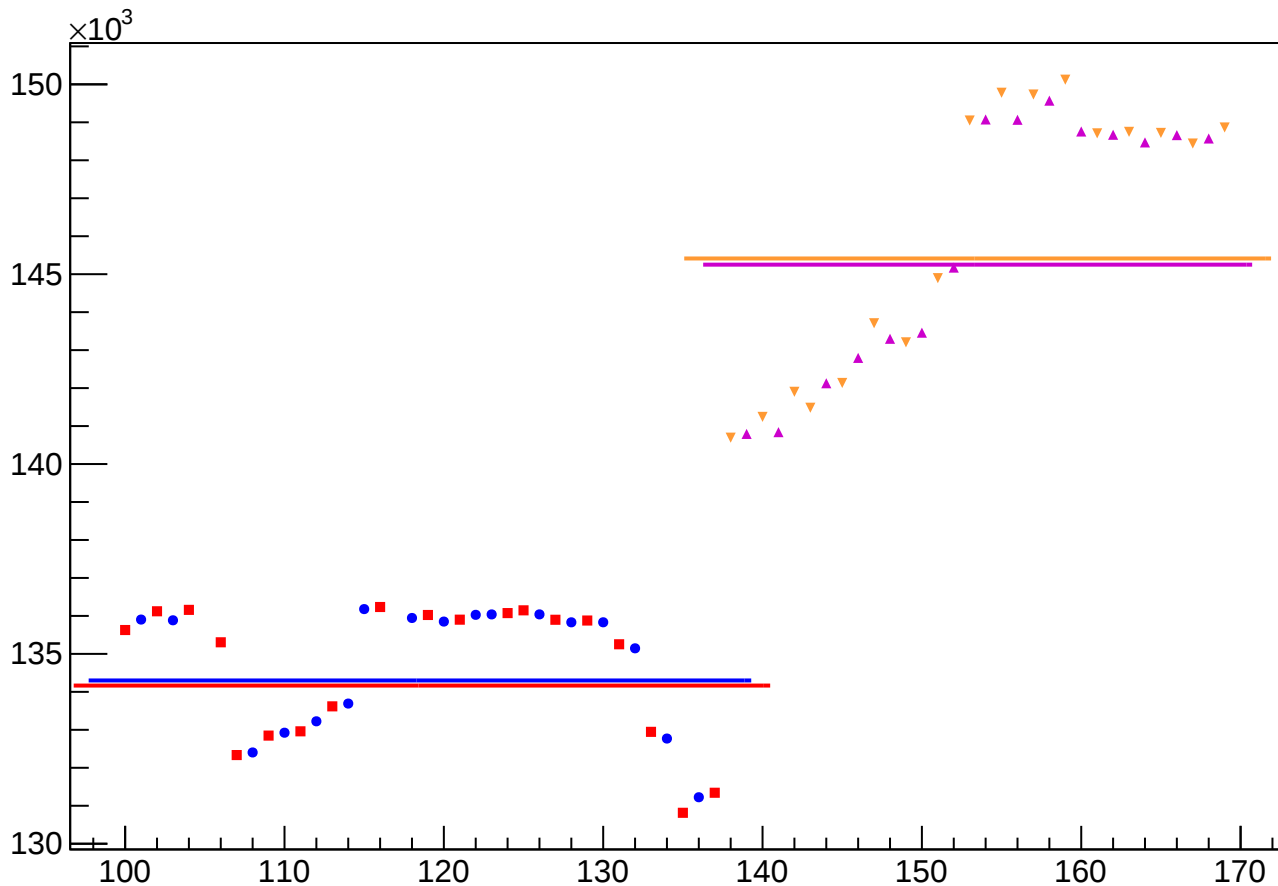
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 175.748 $\pm$ 0.030 χ^2 /NDF: 1634899.5/31

Out: 171.620 $\pm$ 0.028 χ^2 /NDF: 1866808.9/35

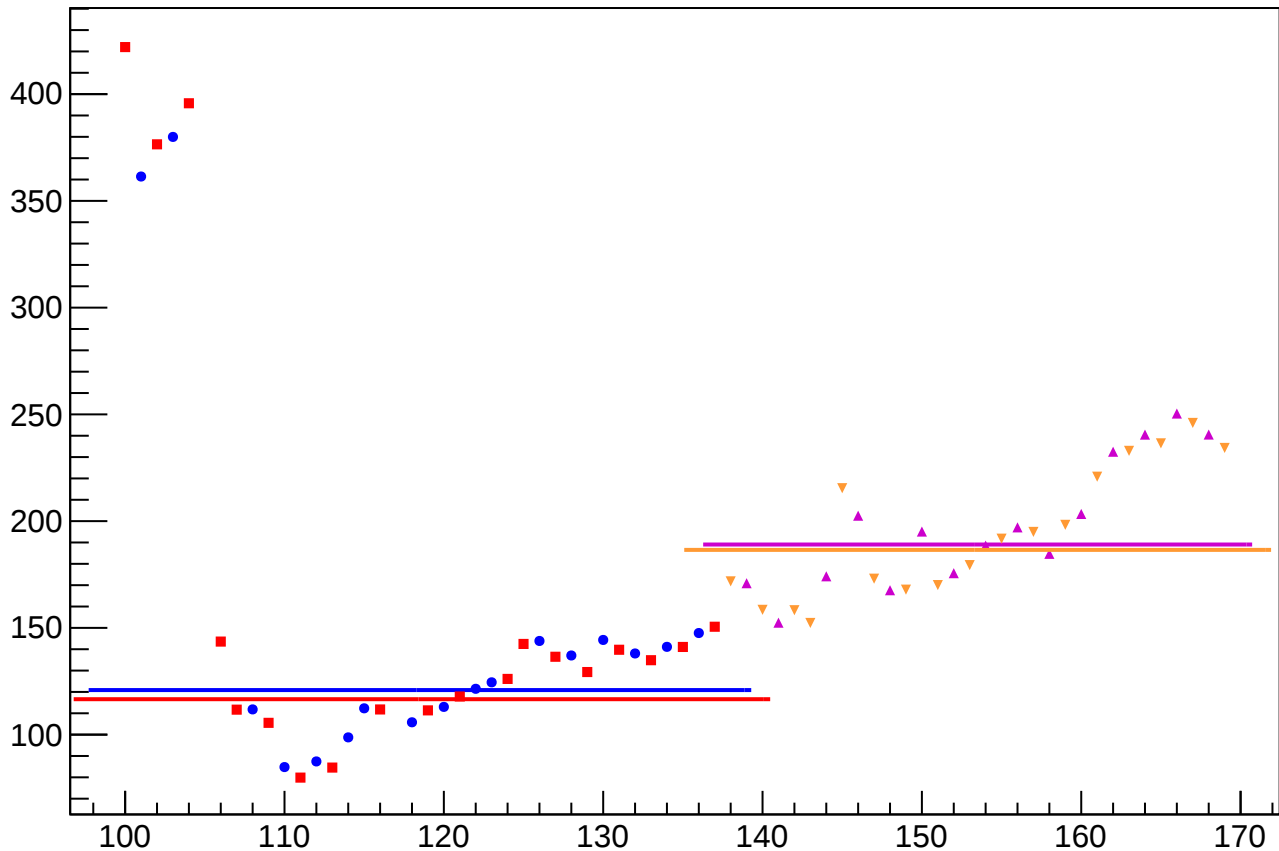
All: 173.564 $\pm$ 0.021 χ^2 /NDF: 3511779.8/67

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050 χ^2/NDF : 1149581803.2/16
 Left Out: 145413.741 $\pm$ 0.053 χ^2/NDF : 4398483263.9/16
 Right Out: 134165.615 $\pm$ 0.047 χ^2/NDF : 1211471052.4/18
 Left In: 145251.194 $\pm$ 0.056 χ^2/NDF : 3569192601.2/14
 All: 139150.441 $\pm$ 0.026 χ^2/NDF : 56247865

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 186.533 $\pm$ 0.038 χ^2 /NDF: 540186.3/16

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 189.046 $\pm$ 0.040 χ^2 /NDF: 428464.6/14

Left: 187.725 $\pm$ 0.027 χ^2 /NDF: 970754.5/31

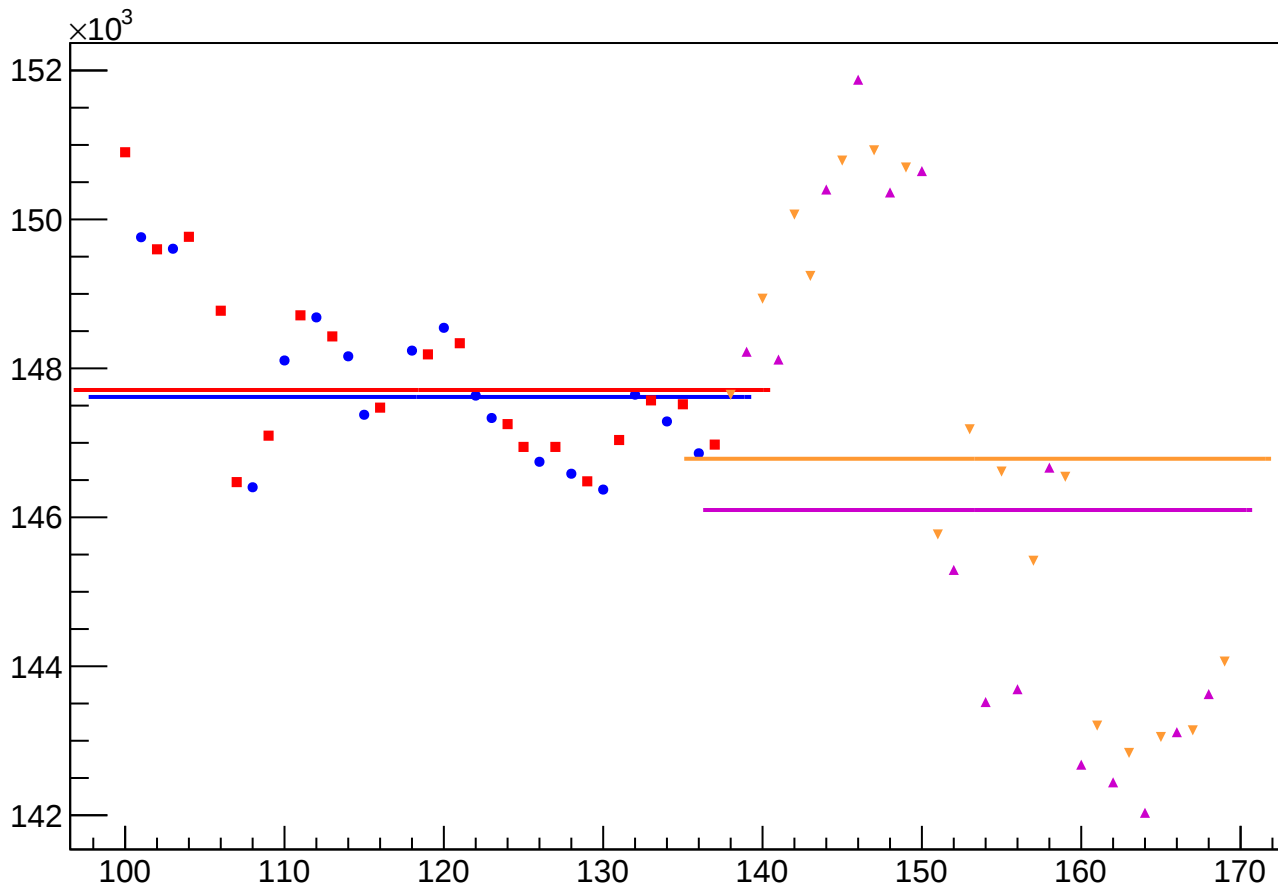
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 151.233 $\pm$ 0.027 χ^2 /NDF: 3525578.5/31

Out: 147.442 $\pm$ 0.025 χ^2 /NDF: 4002550.9/35

All: 149.230 $\pm$ 0.018 χ^2 /NDF: 7538928.8/67

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062 χ^2/NDF : 199263428.7/16

Left Out: 146786.338 $\pm$ 0.058 χ^2/NDF : 2048675769.5/16

Right Out: 147709.723 $\pm$ 0.058 χ^2/NDF : 203906685.9/18

Left In: 146098.357 $\pm$ 0.061 χ^2/NDF : 2704202748.3/14

Left: 146458.764 $\pm$ 0.042 χ^2/NDF : 4820538546.6/3

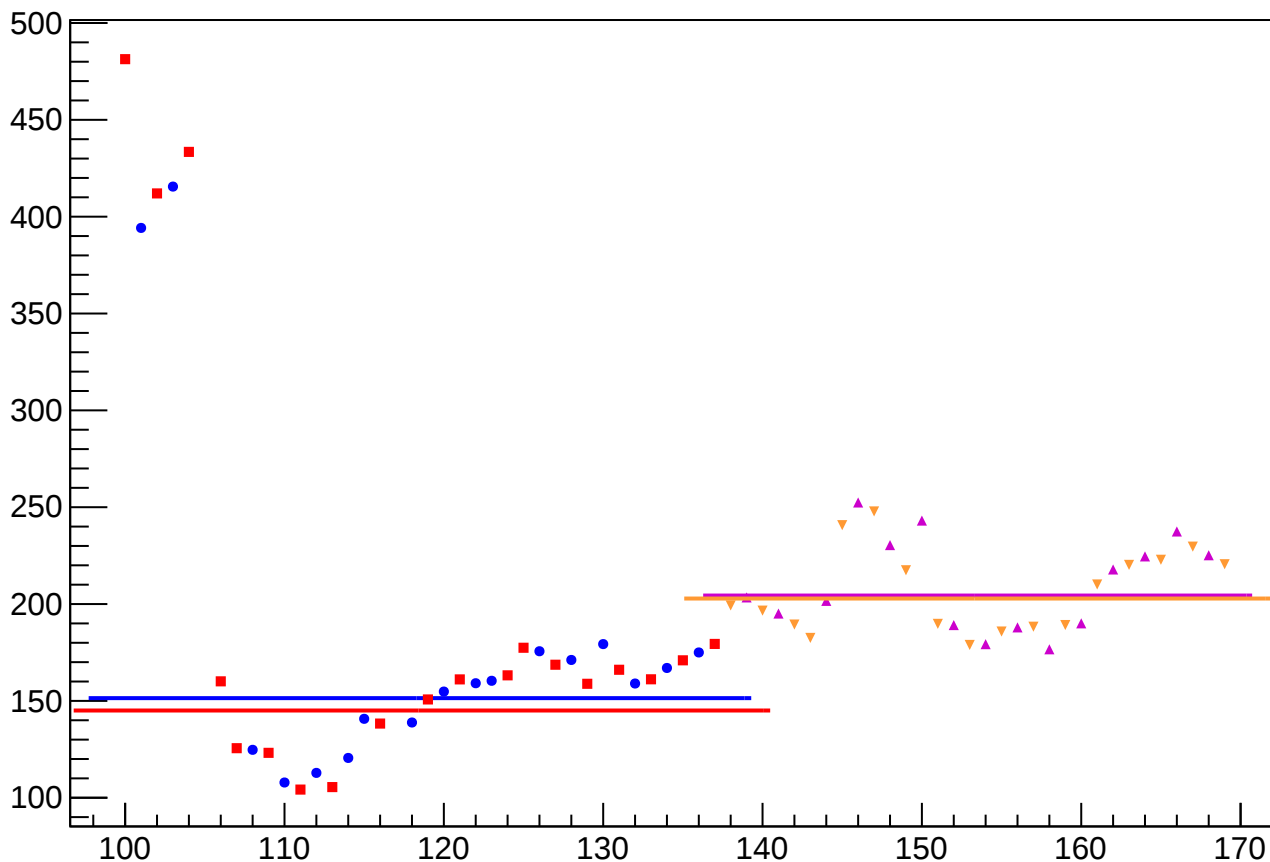
Right: 147666.153 $\pm$ 0.043 χ^2/NDF : 404368550.3/3

In: 146833.240 $\pm$ 0.043 χ^2/NDF : 3207830298.9/3

Out: 147243.155 $\pm$ 0.041 χ^2/NDF : 2379223033.3/3

All: 147050.089 $\pm$ 0.030 χ^2/NDF : 563407682.0/3

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 202.849+/-0.041 χ^2/NDF : 236601.4/16

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: 203.583+/-0.030 χ^2/NDF : 517354.9/31

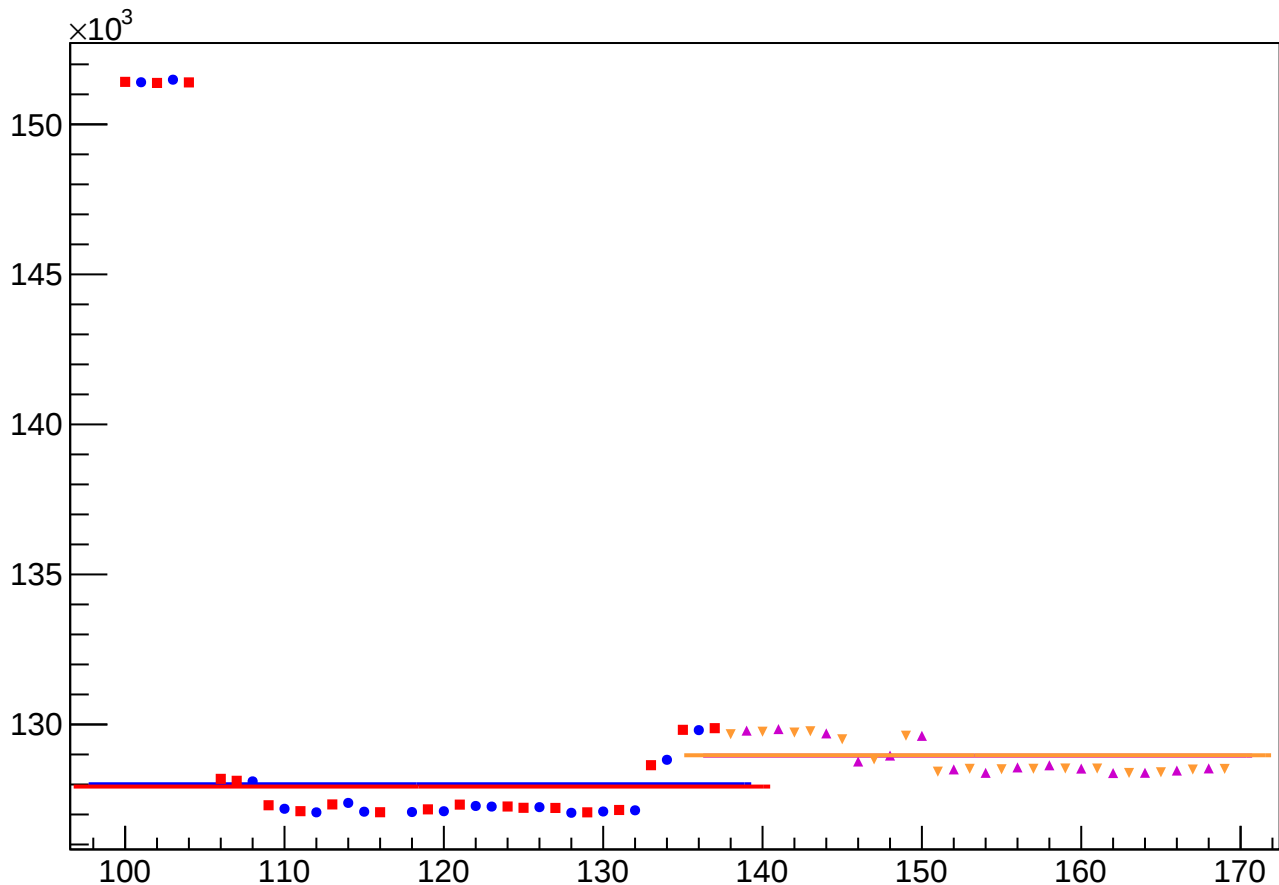
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 178.745+/-0.031 χ^2/NDF : 2279240.9/31

Out: 174.249+/-0.029 χ^2/NDF : 2605305.3/35

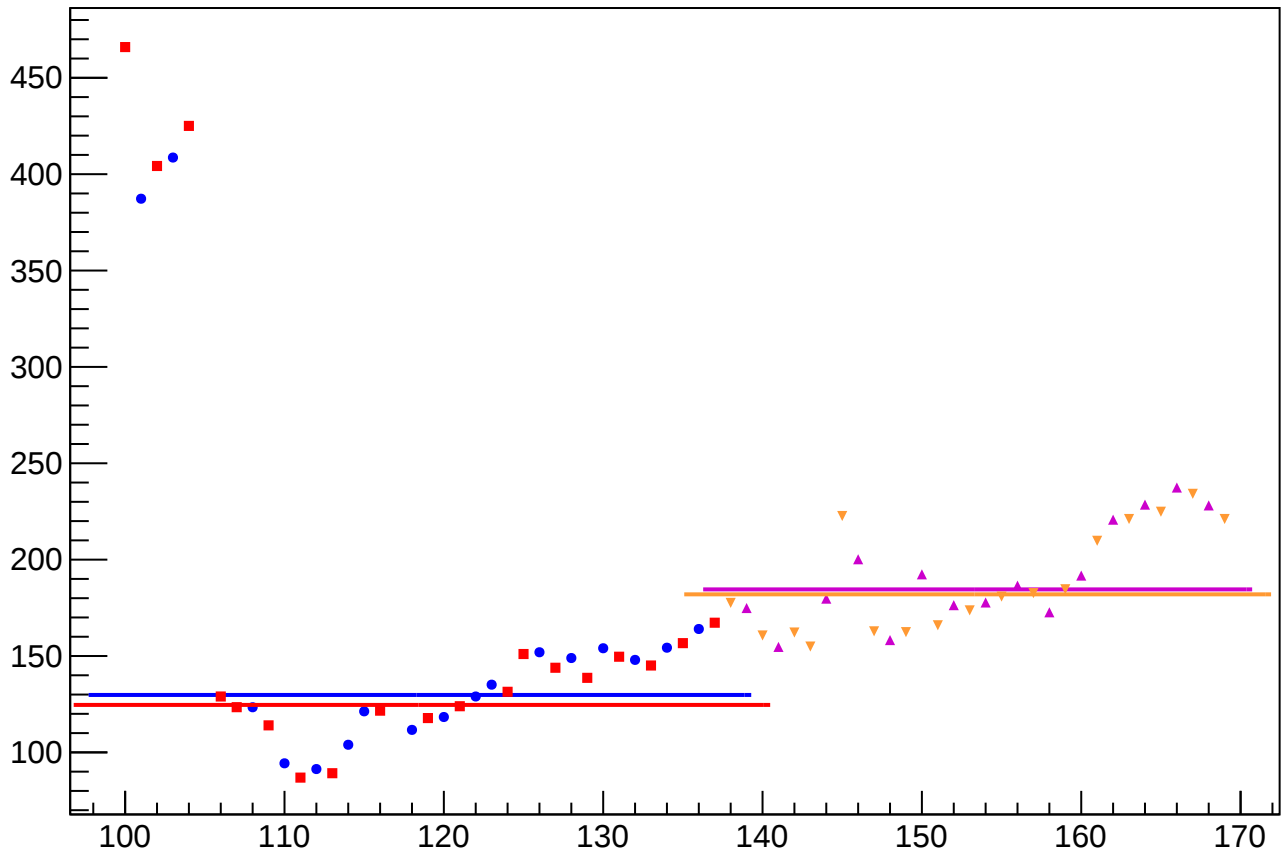
All: 176.367+/-0.021 χ^2/NDF : 4895861.3/67

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054	χ^2 /NDF: 4319785674.5/16	Left: 128967.335 $\pm$ 0.038	χ^2 /NDF: 228023669.7/31
Left Out: 128973.618 $\pm$ 0.052	χ^2 /NDF: 121458777.2/16	Right: 127965.988 $\pm$ 0.037	χ^2 /NDF: 8089052681.4/31
Right Out: 127930.136 $\pm$ 0.050	χ^2 /NDF: 3768176193.0/18	In: 128478.701 $\pm$ 0.038	χ^2 /NDF: 4579654631.1/31
Left In: 128960.346 $\pm$ 0.055	χ^2 /NDF: 106533903.8/14	Out: 128436.616 $\pm$ 0.036	χ^2 /NDF: 4097848962.5/31
		All: 128456.343 $\pm$ 0.026	χ^2 /NDF: 867813913.1/16

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 ± 0.038 χ^2/NDF : 1485294.2/16

Left Out: 181.997 ± 0.037 χ^2/NDF : 438449.6/16

Right Out: 124.625 ± 0.036 χ^2/NDF : 1531827.4/18

Left In: 184.565 ± 0.039 χ^2/NDF : 339795.6/14

Left: 183.213 ± 0.027 χ^2/NDF : 780565.5/31

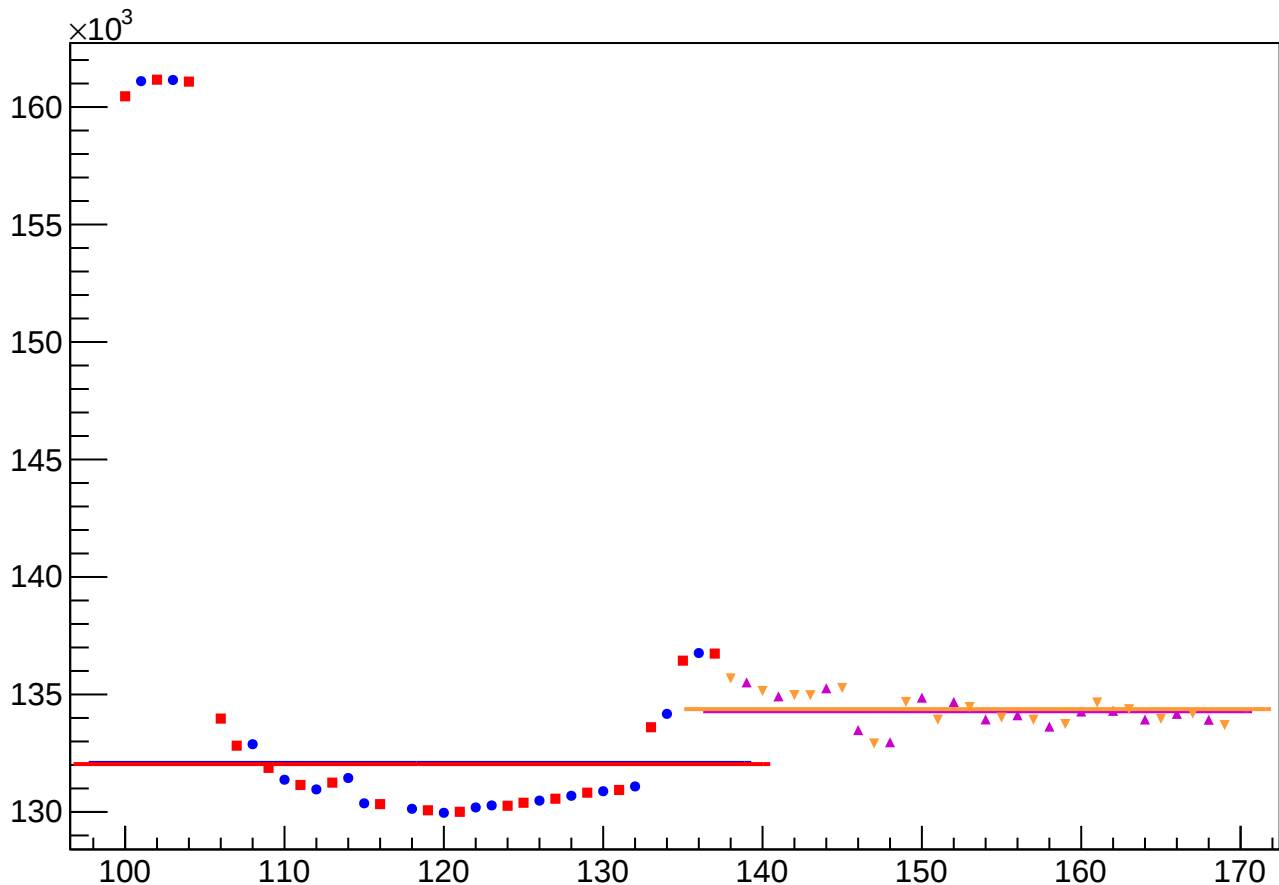
Right: 127.025 ± 0.026 χ^2/NDF : 3026904.3/35

In: 156.884 ± 0.027 χ^2/NDF : 2837994.3/31

Out: 152.472 ± 0.026 χ^2/NDF : 3229123.2/35

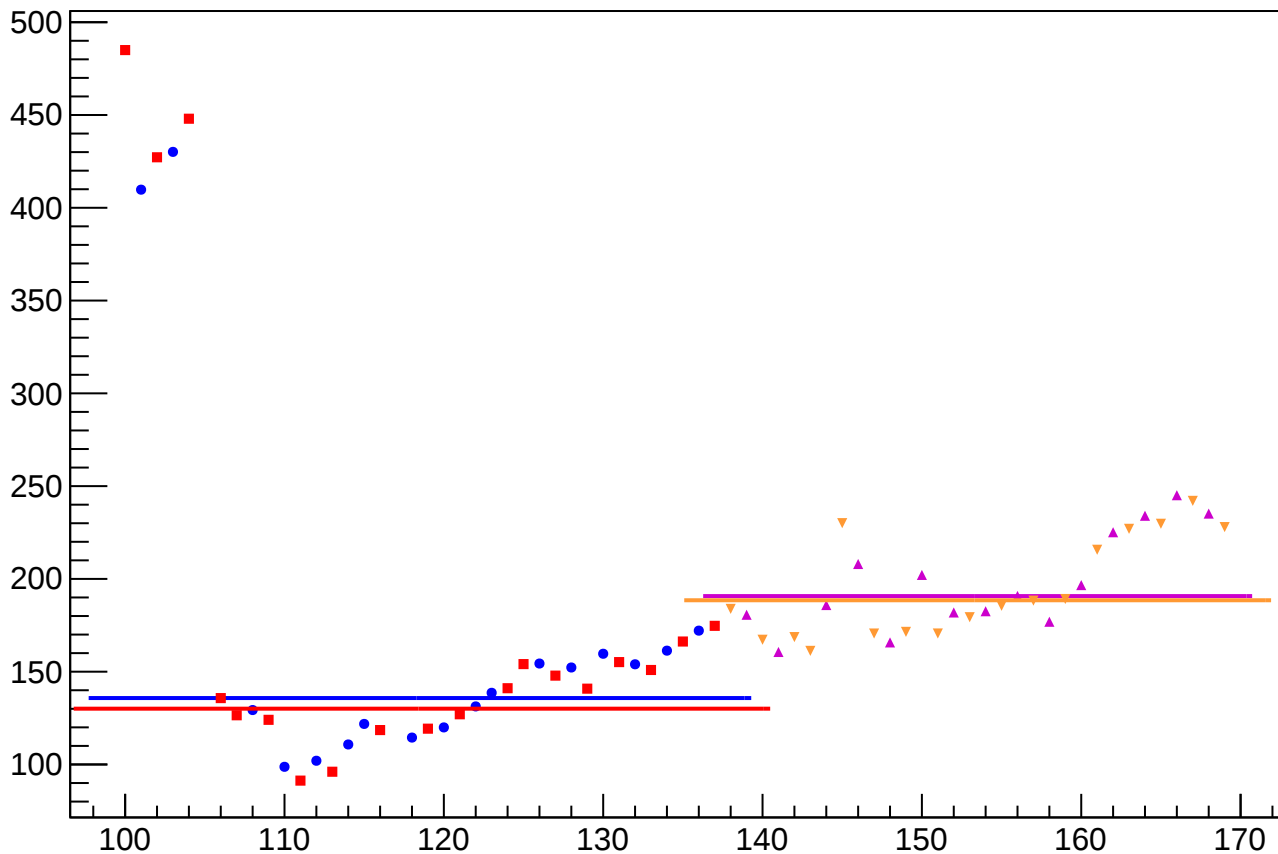
All: 154.540 ± 0.019 χ^2/NDF : 6081091.6/67

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057	χ^2 /NDF: 6733230928.7/16	Left: 134332.938 $\pm$ 0.039	χ^2 /NDF: 331499882.7/31
Left Out: 134376.498 $\pm$ 0.054	χ^2 /NDF: 170839996.9/16	Right: 132060.364 $\pm$ 0.038	χ^2 /NDF: 12615754245.6/16
Right Out: 132037.539 $\pm$ 0.053	χ^2 /NDF: 5882115872.9/18	In: 133185.627 $\pm$ 0.040	χ^2 /NDF: 7648383052.7/31
Left In: 134284.679 $\pm$ 0.057	χ^2 /NDF: 159273303.2/14	Out: 133181.077 $\pm$ 0.038	χ^2 /NDF: 7022271636.6/31
		All: 133183.210 $\pm$ 0.027	χ^2 /NDF: 146706615.6/16

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 188.492 $\pm$ 0.038 χ^2/NDF : 408551.8/16

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: 189.560 $\pm$ 0.028 χ^2/NDF : 734639.8/31

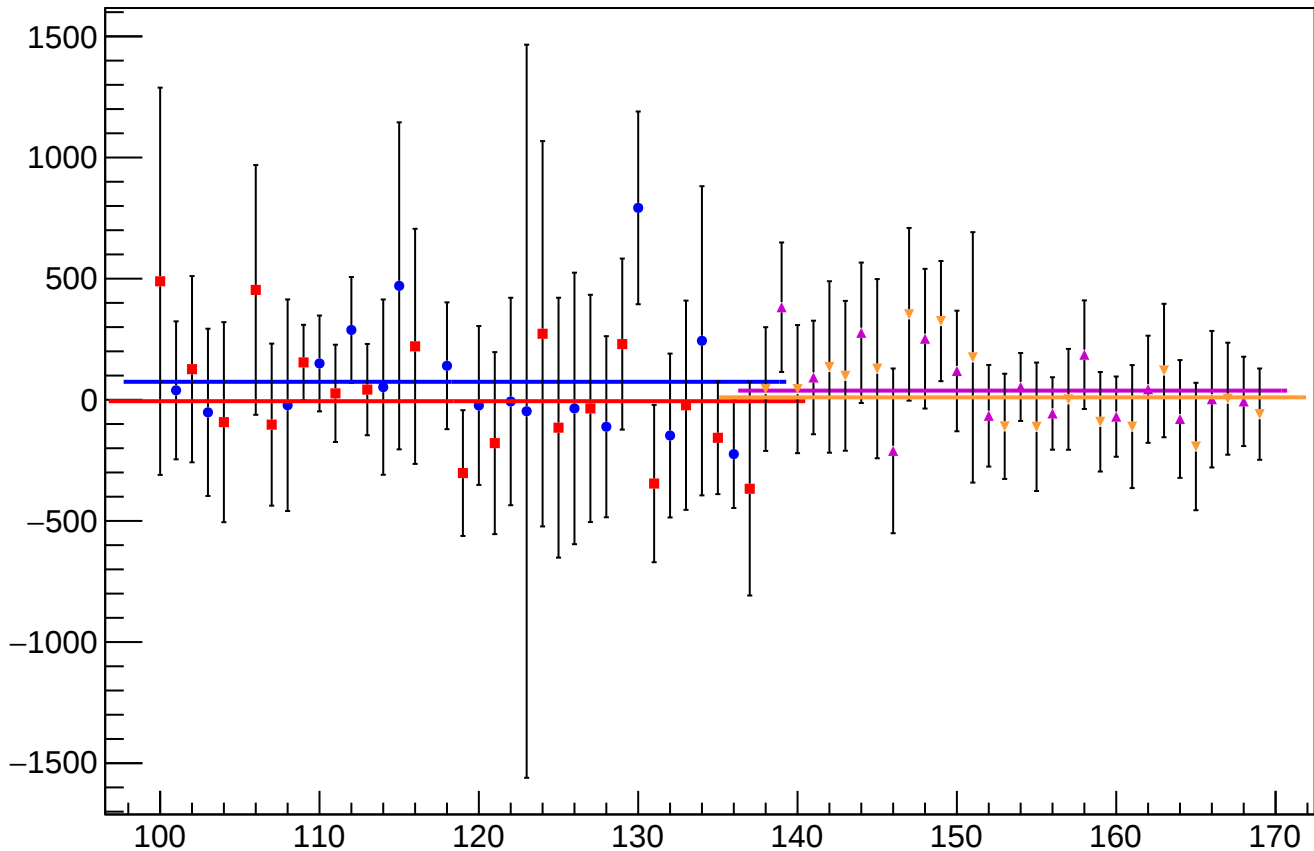
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 163.267 $\pm$ 0.028 χ^2/NDF : 2711147.6/31

Out: 158.633 $\pm$ 0.027 χ^2/NDF : 3122078.9/35

All: 160.805 $\pm$ 0.019 χ^2/NDF : 5847502.2/67

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 10.023+/-62.558 χ^2/NDF : 4.9/16

Right Out: -5.739+/-70.069 χ^2/NDF : 7.1/18

Left In: 37.849+/-54.638 χ^2/NDF : 5.4/14

Left: 25.808+/-41.152 χ^2/NDF : 10.4/31

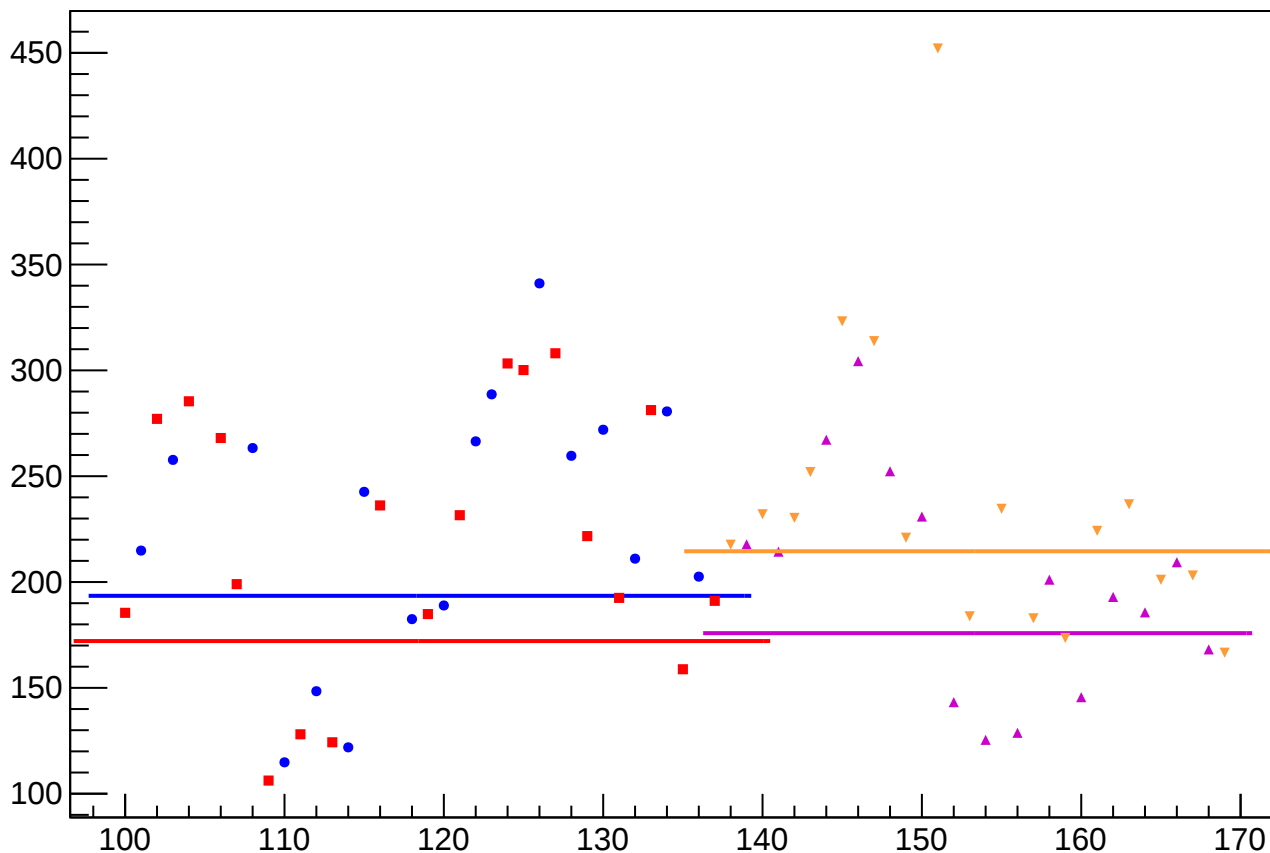
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 49.637+/-44.941 χ^2/NDF : 13.2/31

Out: 3.032+/-46.666 χ^2/NDF : 12.0/35

All: 27.212+/-32.371 χ^2/NDF : 25.8/67

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2 /NDF: 1017195.7/16

Left Out: 214.538 $\pm$ 0.044 χ^2 /NDF:1126484.8/16

Right Out: 172.122 $\pm$ 0.050 χ^2 /NDF: 1579840.2/18

Left In: 175.853 $\pm$ 0.039 χ^2 /NDF:1470614.0/14

Left: 192.593 $\pm$ 0.029 χ^2 /NDF: 3030955.1/31

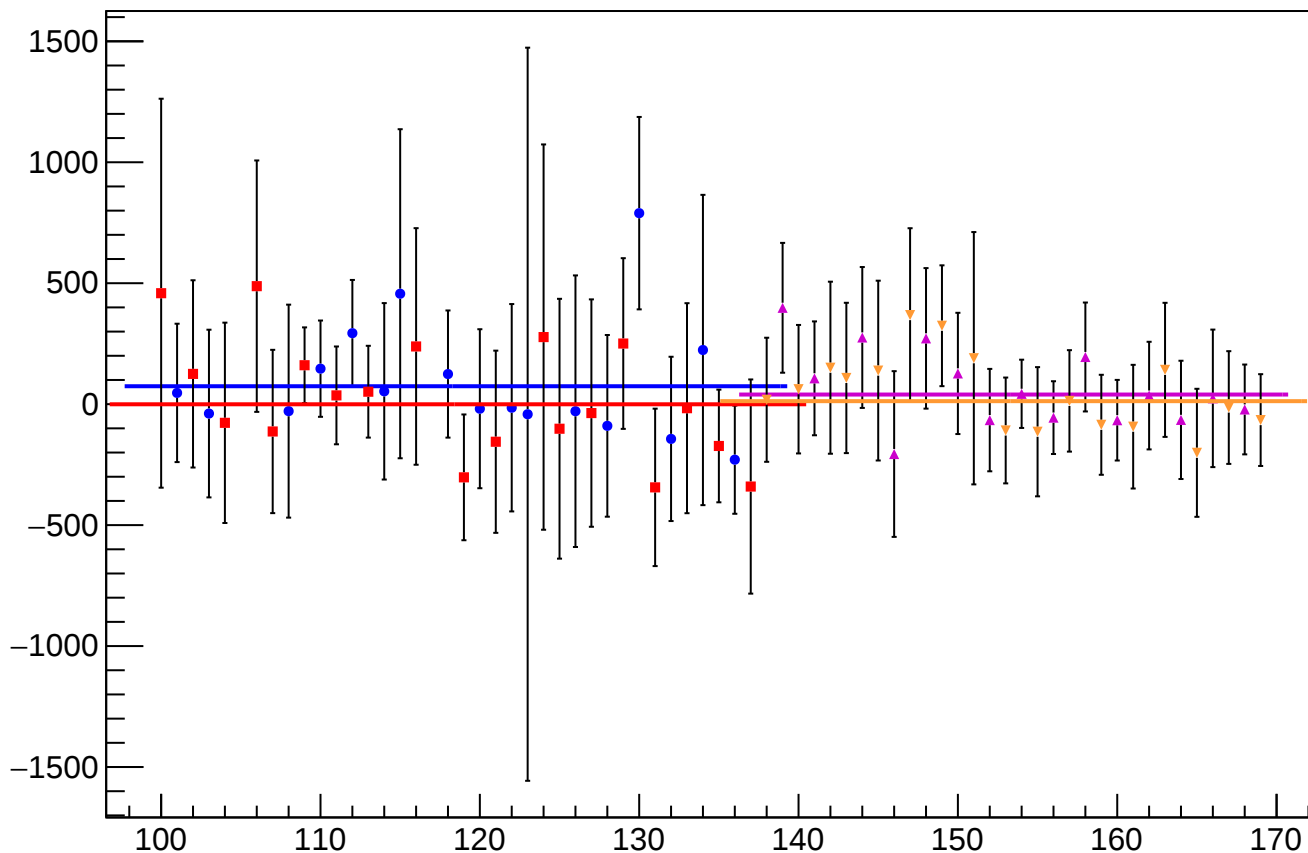
Right: 181.527 $\pm$ 0.037 χ^2 /NDF: 2678891.2/35

In: 181.557 $\pm$ 0.032 χ^2 /NDF:2555204.8/31

Out: 195.724 $\pm$ 0.033 χ^2 /NDF:3114135.1/35

All: 188.374 $\pm$ 0.023 χ^2 /NDF: 5764978.9/67

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 12.407 $\pm$ 62.967 χ^2 /NDF:5.0/16

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: 27.945 $\pm$ 41.414 χ^2 /NDF: 10.8/31

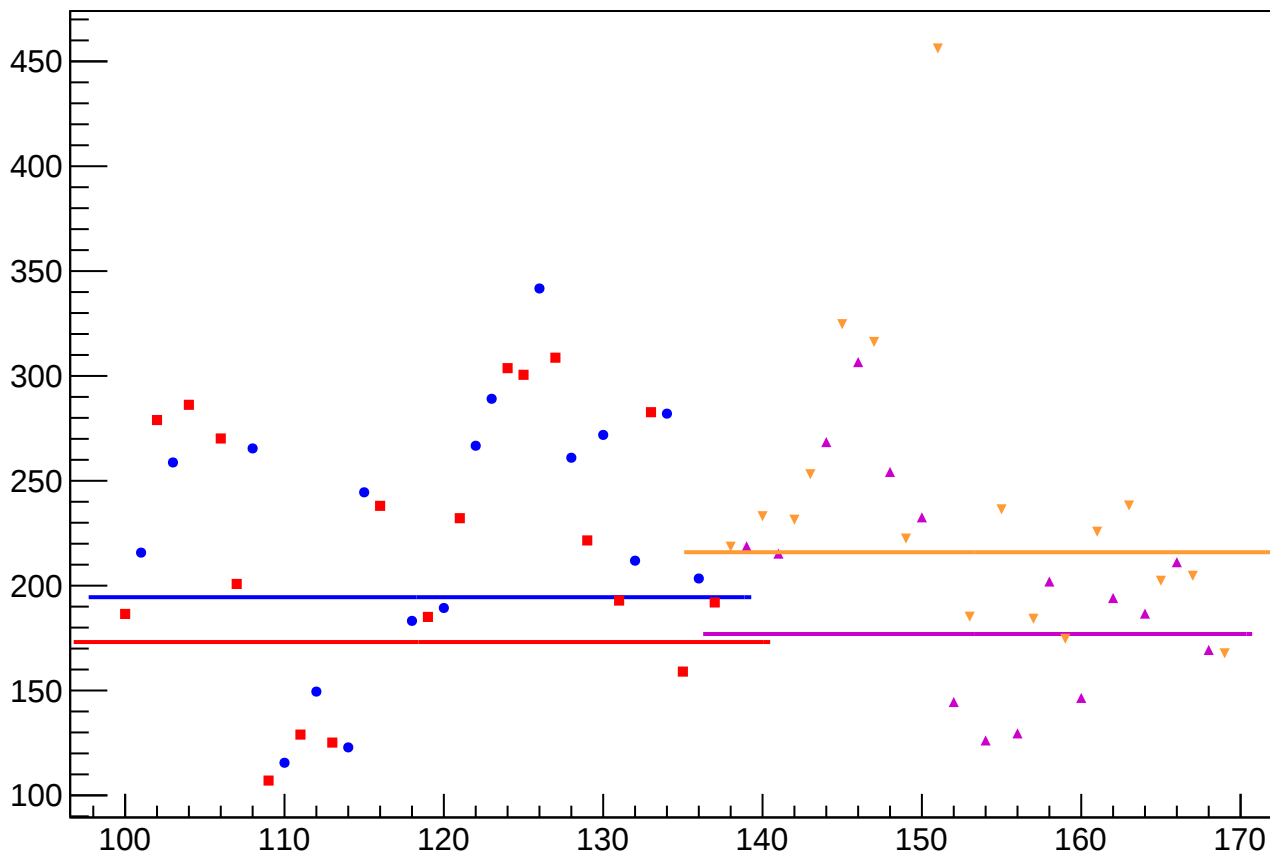
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 50.907 $\pm$ 45.201 χ^2 /NDF:13.3/31

Out: 6.673 $\pm$ 46.944 χ^2 /NDF:12.4/35

All: 29.627 $\pm$ 32.561 χ^2 /NDF: 26.1/67

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 ± 0.056 χ^2/NDF : 1008514.7/16

Left Out: 215.938 ± 0.045 χ^2/NDF : 1125455.8/16

Right Out: 173.111 ± 0.050 χ^2/NDF : 1567374.3/18

Left In: 176.944 ± 0.039 χ^2/NDF : 1469180.2/14

Left: 193.812 ± 0.029 χ^2/NDF : 3029857.2/31

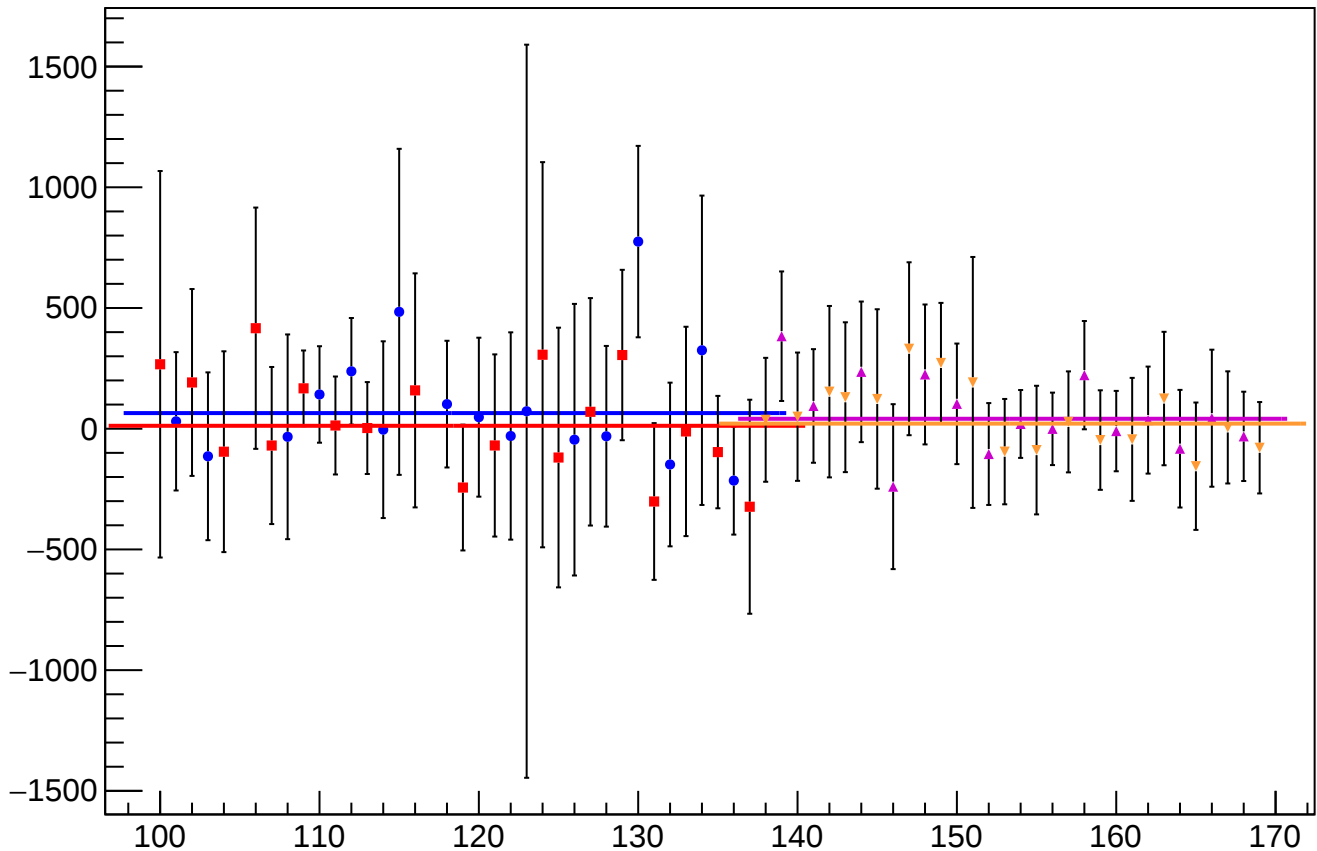
Right: 182.529 ± 0.037 χ^2/NDF : 2657073.5/35

In: 182.632 ± 0.032 χ^2/NDF : 2543753.6/31

Out: 196.915 ± 0.033 χ^2/NDF : 3103789.2/35

All: 189.503 ± 0.023 χ^2/NDF : 5743619.0/67

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 ± 79.399 $\chi^2/\text{NDF}: 7.0/16$

Left Out: 21.115 ± 62.822 $\chi^2/\text{NDF}: 3.7/16$

Right Out: 12.094 ± 70.361 $\chi^2/\text{NDF}: 5.8/18$

Left In: 41.194 ± 54.836 $\chi^2/\text{NDF}: 5.0/14$

Left: 32.511 ± 41.312 $\chi^2/\text{NDF}: 8.8/31$

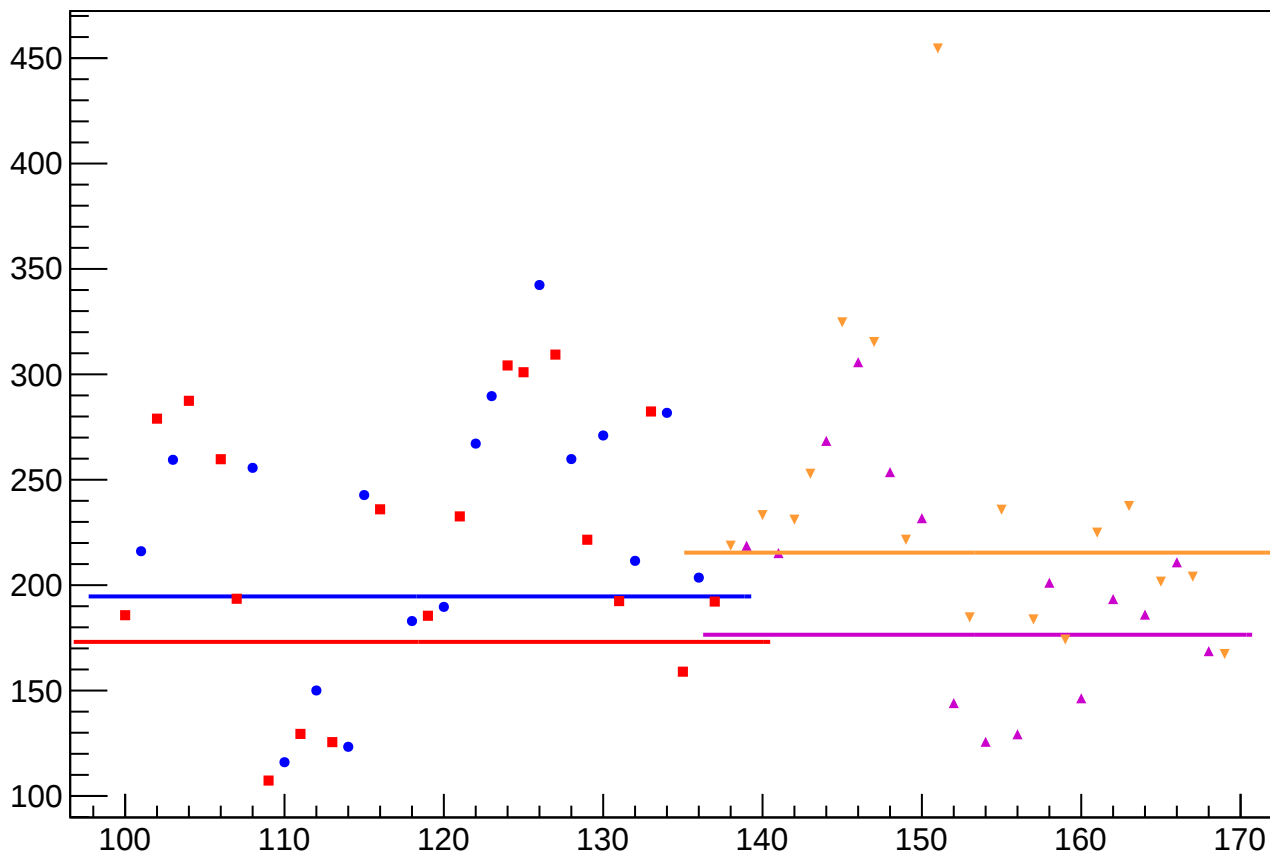
Right: 35.248 ± 52.659 $\chi^2/\text{NDF}: 13.1/35$

In: 48.796 ± 45.121 $\chi^2/\text{NDF}: 12.1/31$

Out: 17.113 ± 46.861 $\chi^2/\text{NDF}: 9.6/35$

All: 33.554 ± 32.503 $\chi^2/\text{NDF}: 21.9/67$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 215.429+/-0.044 χ^2/NDF : 1127558.1/16

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: 193.321+/-0.029 χ^2/NDF : 3036858.5/31

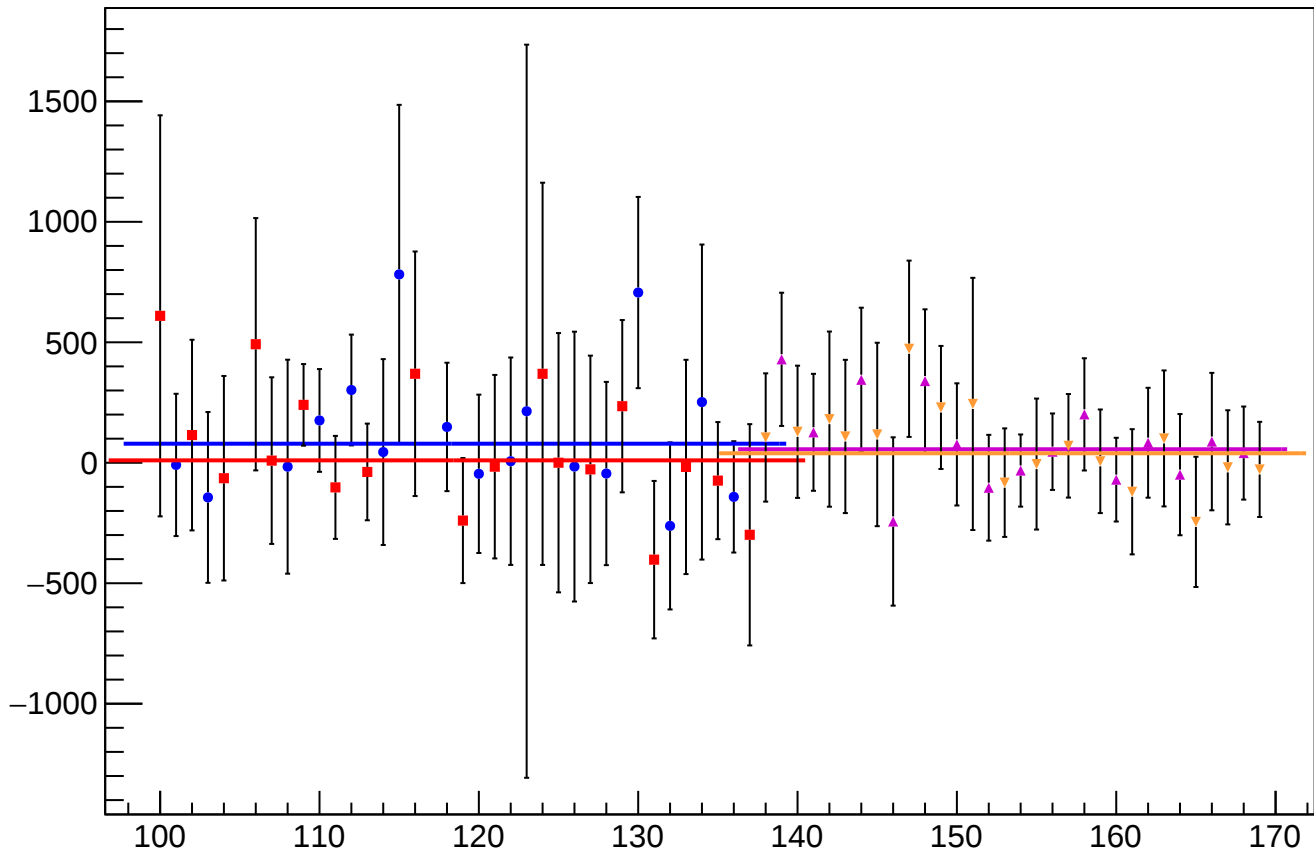
Right: 182.574+/-0.037 χ^2/NDF : 2613964.4/35

In: 182.346+/-0.032 χ^2/NDF : 2530634.1/31

Out: 196.648+/-0.033 χ^2/NDF : 3075082.5/35

All: 189.227+/-0.023 χ^2/NDF : 5702391.3/67

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 39.428 $\pm$ 64.649 χ^2 /NDF:4.6/16

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 56.084 $\pm$ 57.072 χ^2 /NDF:6.5/14

Left: 48.789 $\pm$ 42.785 χ^2 /NDF: 11.1/31

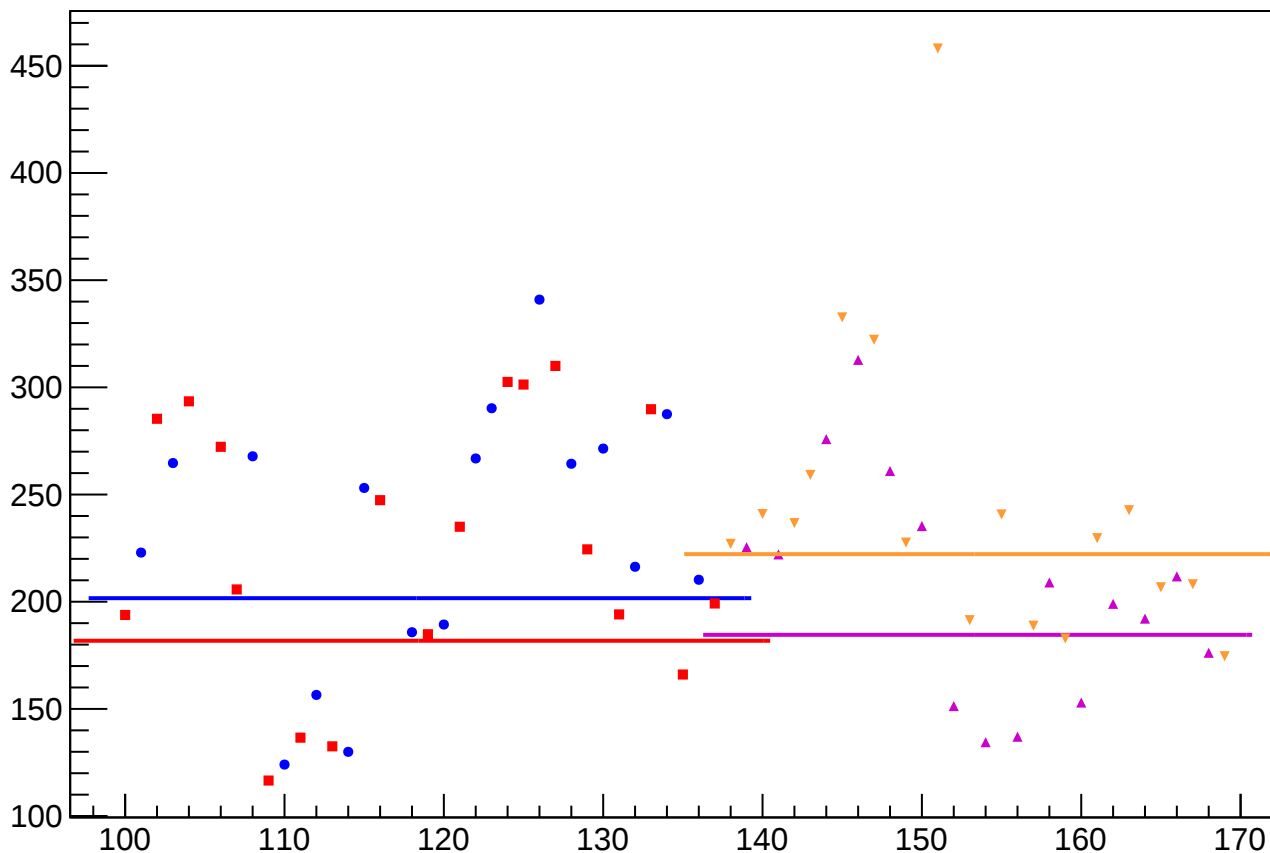
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 63.620 $\pm$ 46.820 χ^2 /NDF:14.1/31

Out: 26.546 $\pm$ 48.488 χ^2 /NDF:12.5/35

All: 45.732 $\pm$ 33.681 χ^2 /NDF: 26.9/67

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 222.189+/-0.046 χ^2/NDF : 1069024.5/16

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 184.557+/-0.040 χ^2/NDF : 1328277.4/14

Left: 201.040+/-0.030 χ^2/NDF : 2778154.9/31

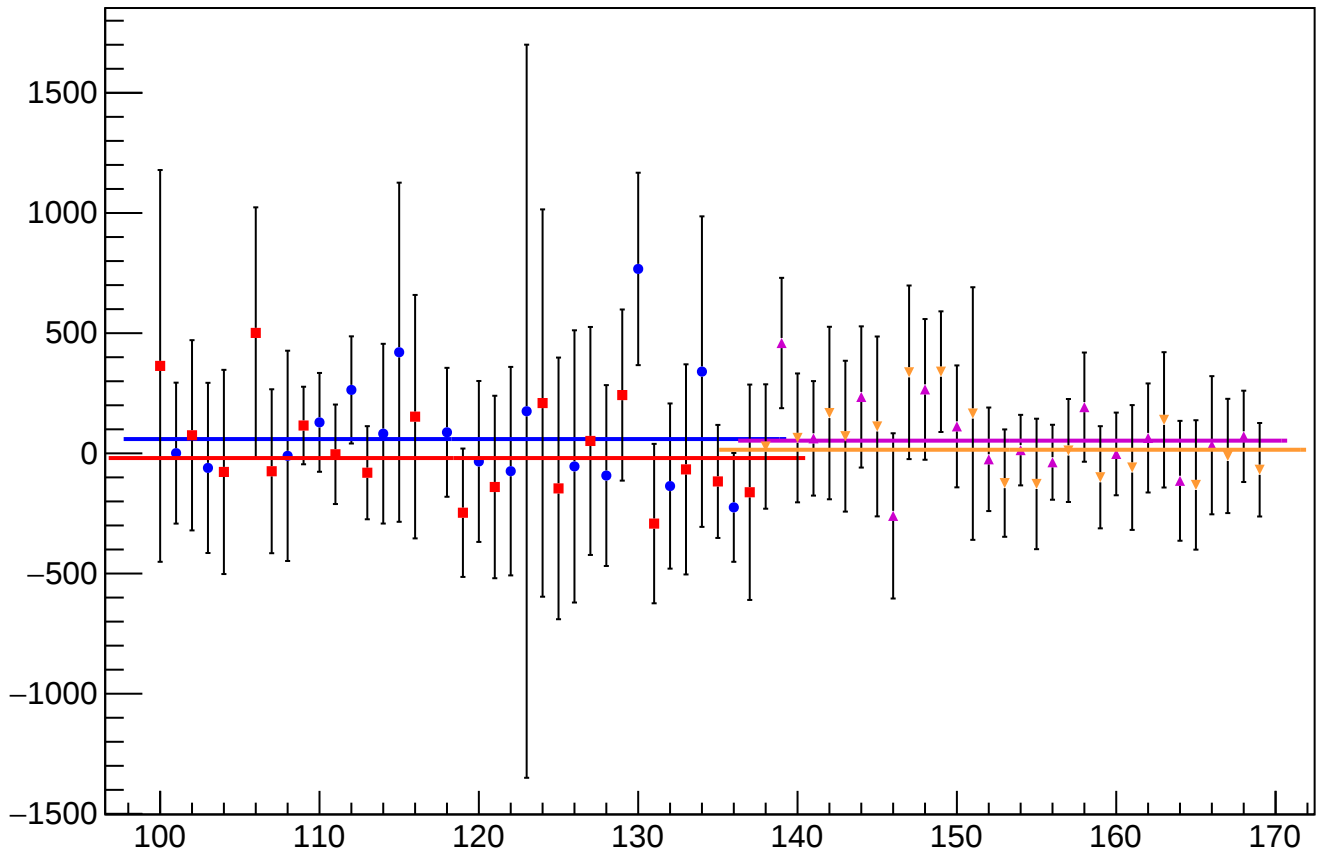
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 190.148+/-0.033 χ^2/NDF : 2270149.1/31

Out: 204.519+/-0.034 χ^2/NDF : 2788008.0/35

All: 197.082+/-0.024 χ^2/NDF : 5149072.5/67

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 15.004 $\pm$ 64.021 χ^2 /NDF:4.6/16

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: 36.366 $\pm$ 42.254 χ^2 /NDF: 10.3/31

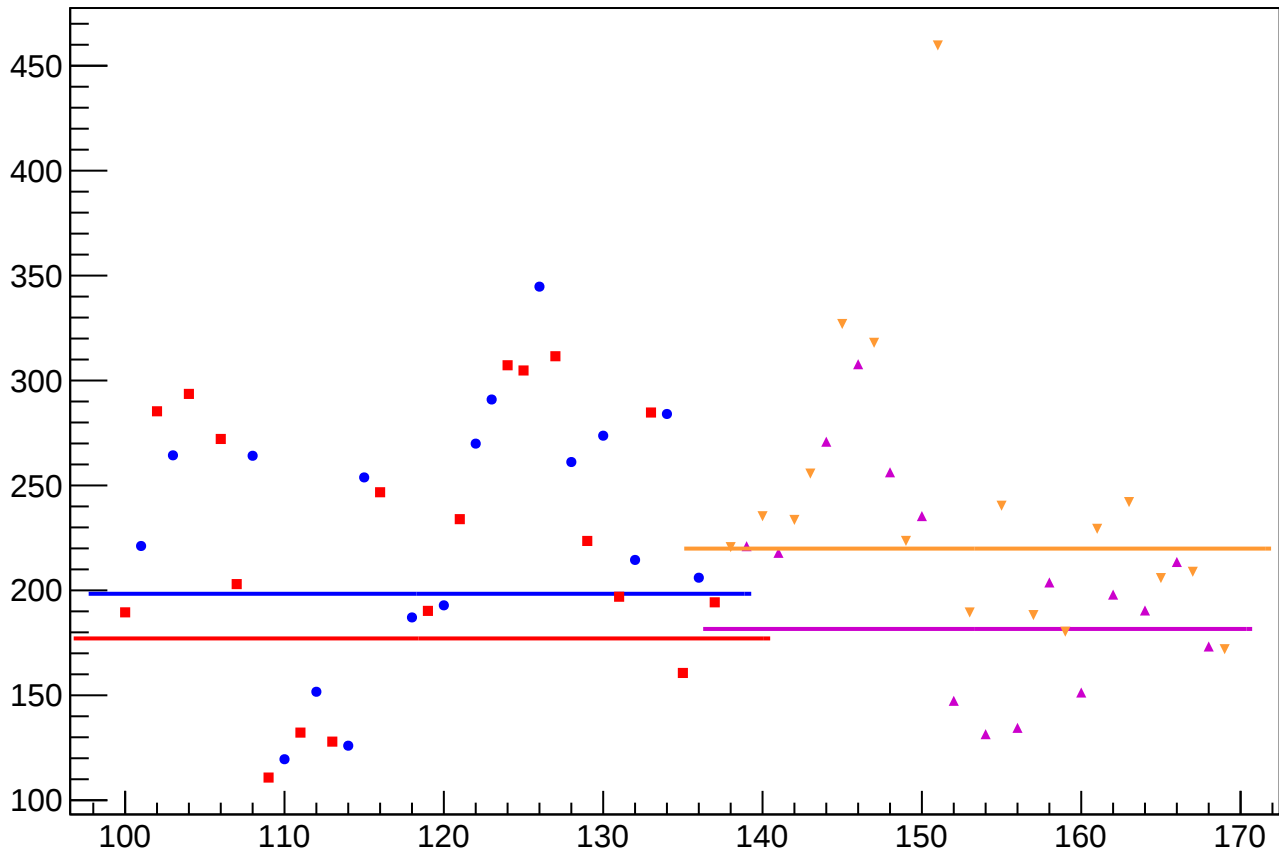
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 55.021 $\pm$ 46.163 χ^2 /NDF:12.5/31

Out: -0.281 $\pm$ 47.804 χ^2 /NDF:9.4/35

All: 28.336 $\pm$ 33.207 χ^2 /NDF: 22.7/67

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378 $\pm$ 0.057 χ^2/NDF : 963672.6/16

Left Out: 219.909 $\pm$ 0.045 χ^2/NDF : 1071227.6/16

Right Out: 177.096 $\pm$ 0.051 χ^2/NDF : 1524763.6/18

Left In: 181.619 $\pm$ 0.040 χ^2/NDF : 1351734.1/14

Left: 198.298 $\pm$ 0.030 χ^2/NDF : 2826740.7/31

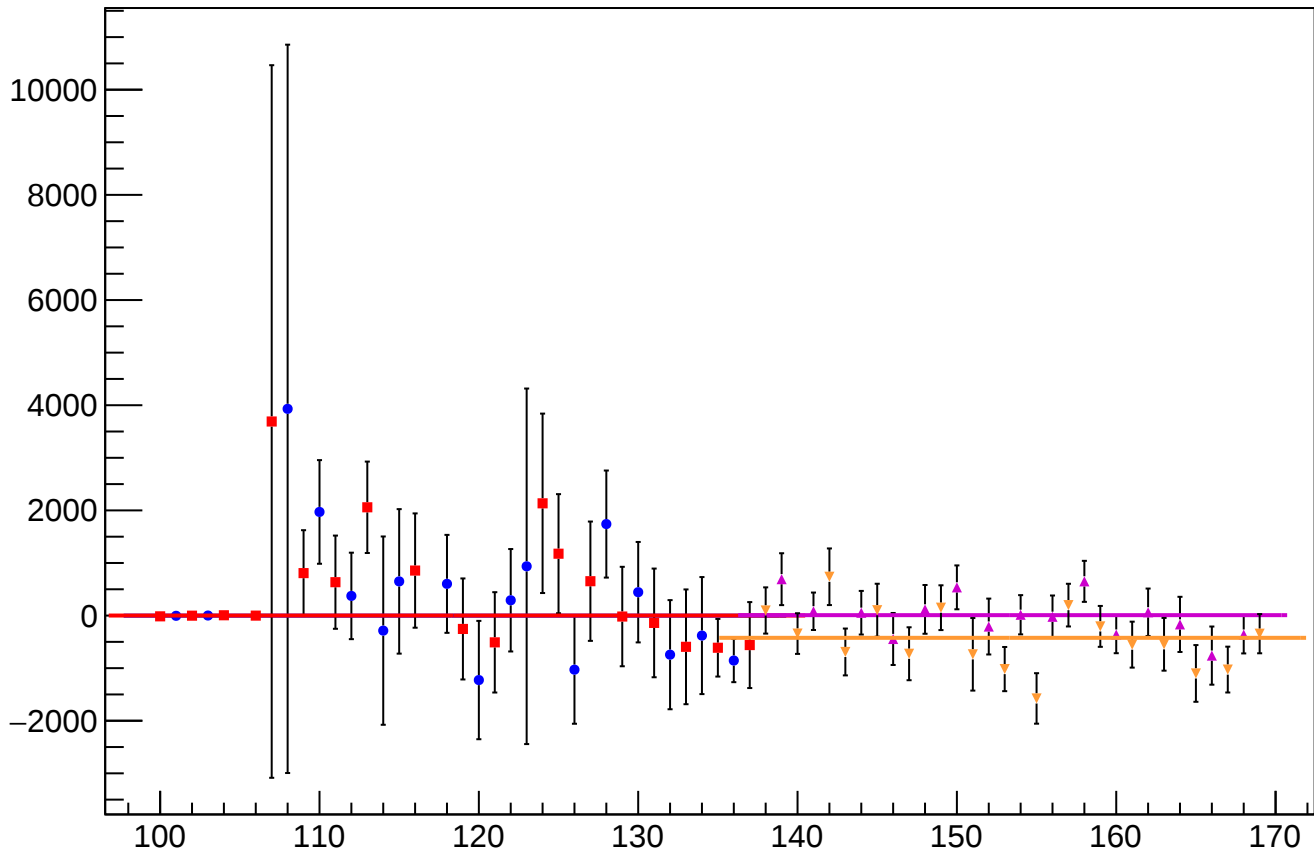
Right: 186.495 $\pm$ 0.038 χ^2/NDF : 2565896.1/35

In: 187.088 $\pm$ 0.033 χ^2/NDF : 2373355.6/31

Out: 200.966 $\pm$ 0.034 χ^2/NDF : 2991738.4/35

All: 193.785 $\pm$ 0.023 χ^2/NDF : 5452314.6/67

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -423.205 ± 109.318 χ^2/NDF : 24.0/16

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: -208.213 ± 77.395 χ^2/NDF : 43.4/31

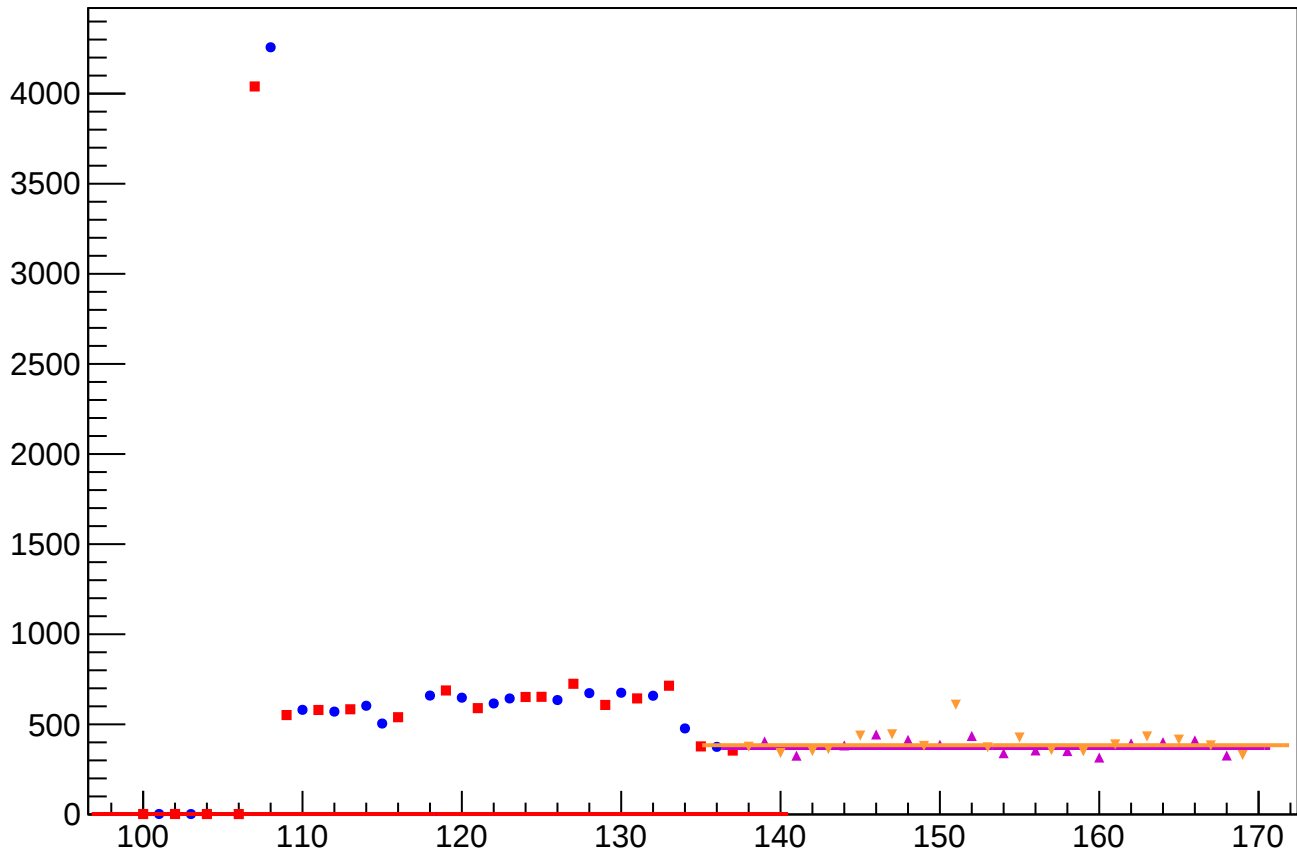
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.525 ± 2.251 χ^2/NDF : 28.5/31

Out: 0.569 ± 2.111 χ^2/NDF : 58.4/35

All: -0.411 ± 1.540 χ^2/NDF : 87.4/67

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 384.237+/-0.077 χ^2/NDF : 411862.2/16

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: 376.530+/-0.055 χ^2/NDF : 689674.3/31

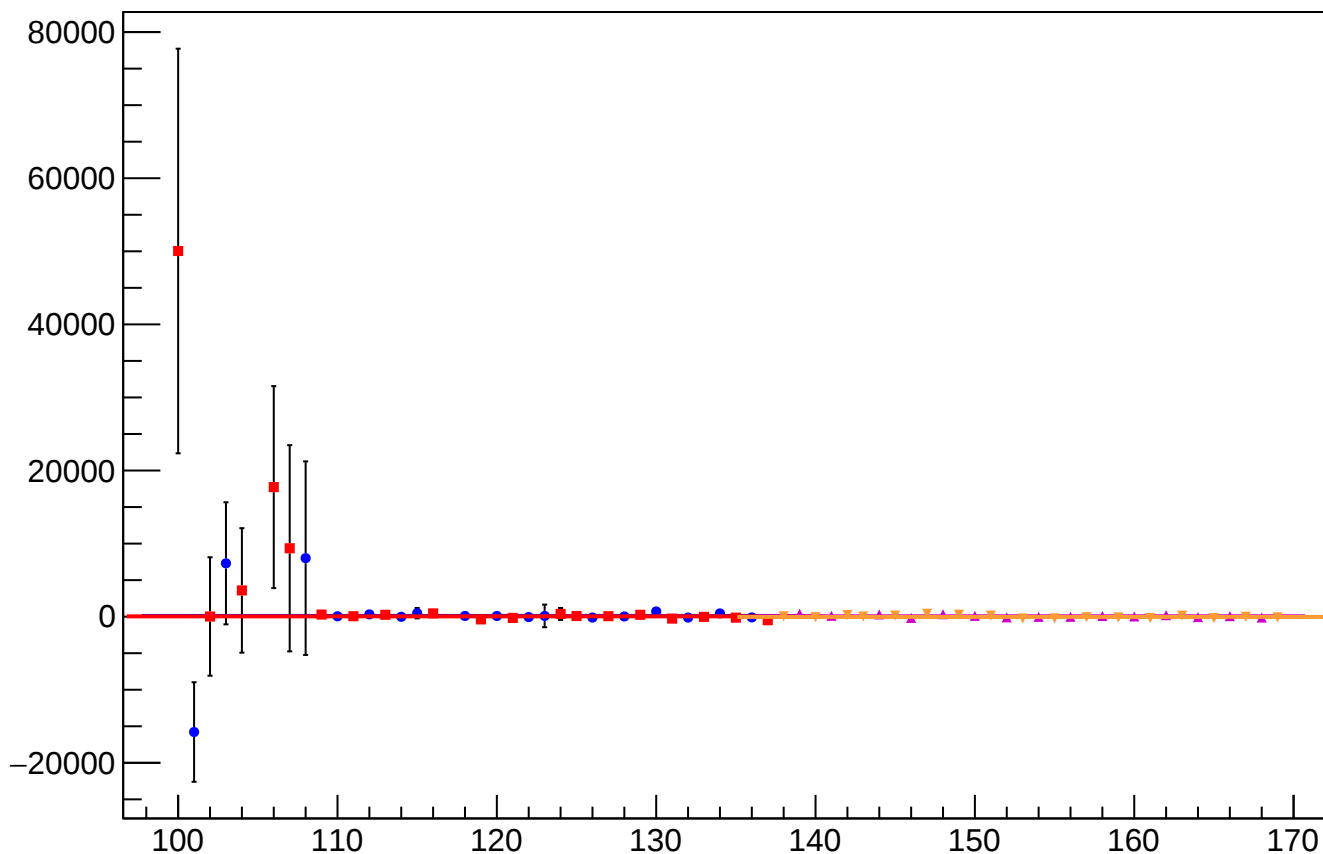
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.611+/-0.002 χ^2/NDF : 33444309.6/31

Out: 2.579+/-0.001 χ^2/NDF : 35946188.8/35

All: 2.594+/-0.001 χ^2/NDF : 69390715.3/67

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643 $\pm$ 90.860 χ^2 /NDF: 11.9/16

Left Out: -34.316 $\pm$ 66.587 χ^2 /NDF:6.1/16

Right Out: 42.302 $\pm$ 84.496 χ^2 /NDF: 13.9/18

Left In: 55.803 $\pm$ 59.746 χ^2 /NDF:6.0/14

Left: 15.610 $\pm$ 44.469 χ^2 /NDF: 13.1/31

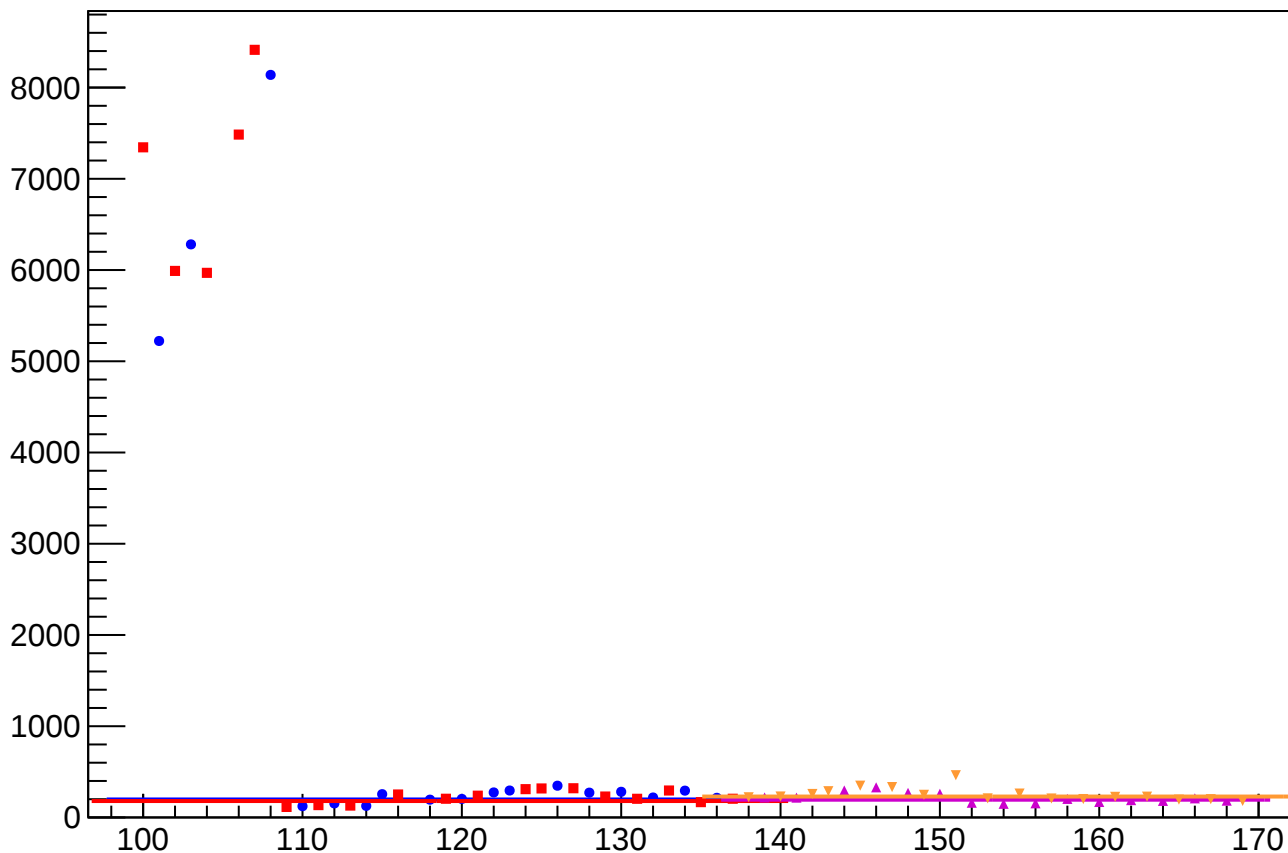
Right: 68.431 $\pm$ 61.875 χ^2 /NDF: 26.0/35

In: 68.735 $\pm$ 49.920 χ^2 /NDF:18.0/31

Out: -4.963 $\pm$ 52.299 χ^2 /NDF:20.5/35

All: 33.600 $\pm$ 36.111 χ^2 /NDF: 39.5/67

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 229.171+/-0.047 χ^2/NDF :1057976.5/16

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: 210.009+/-0.031 χ^2/NDF : 2425694.1/31

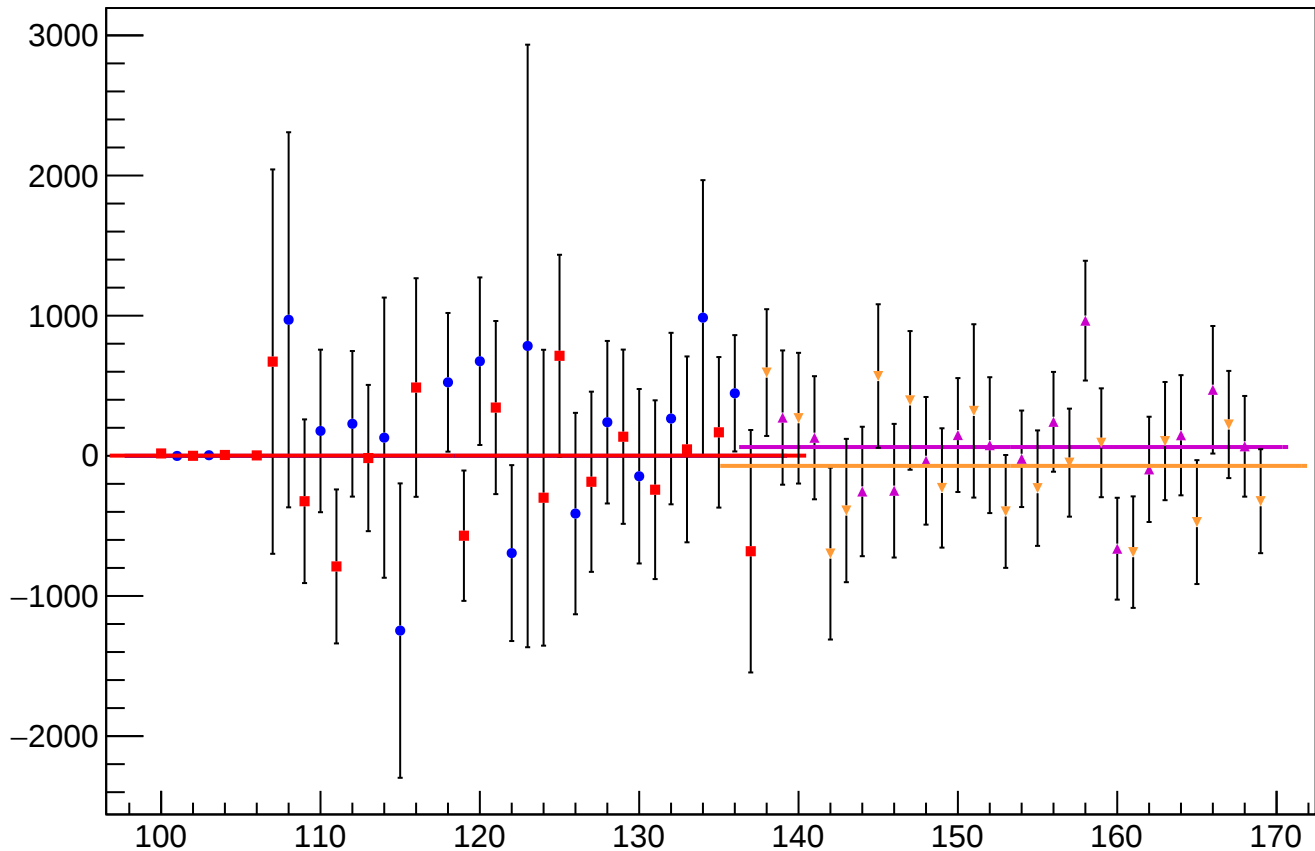
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 195.338+/-0.035 χ^2/NDF :4763435.7/31

Out: 210.314+/-0.037 χ^2/NDF :5797823.4/35

All: 202.478+/-0.026 χ^2/NDF : 10647064.9/67

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 $\chi^2/NDF: 9.7/16$

Left Out: -71.808 ± 106.253 $\chi^2/NDF: 12.6/16$

Right Out: 1.323 ± 1.623 $\chi^2/NDF: 9.6/18$

Left In: 62.697 ± 106.457 $\chi^2/NDF: 11.0/14$

Left: -4.685 ± 75.204 $\chi^2/NDF: 24.3/31$

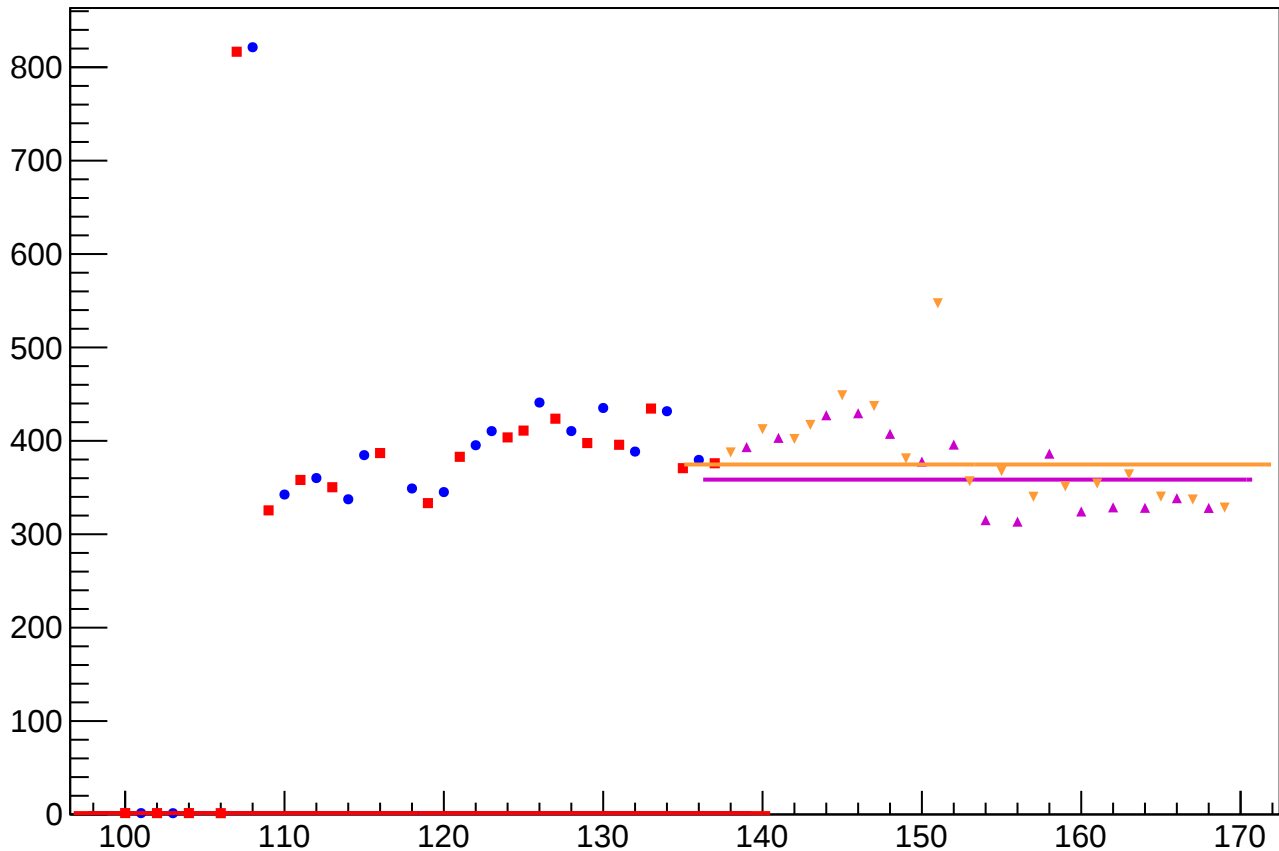
Right: 0.642 ± 1.186 $\chi^2/NDF: 19.7/35$

In: -0.121 ± 1.736 $\chi^2/NDF: 21.1/31$

Out: 1.306 ± 1.622 $\chi^2/NDF: 22.6/35$

All: 0.641 ± 1.185 $\chi^2/NDF: 44.1/67$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 374.680+/-0.075 χ^2/NDF : 359220.0/16

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: 366.601+/-0.053 χ^2/NDF : 672484.8/31

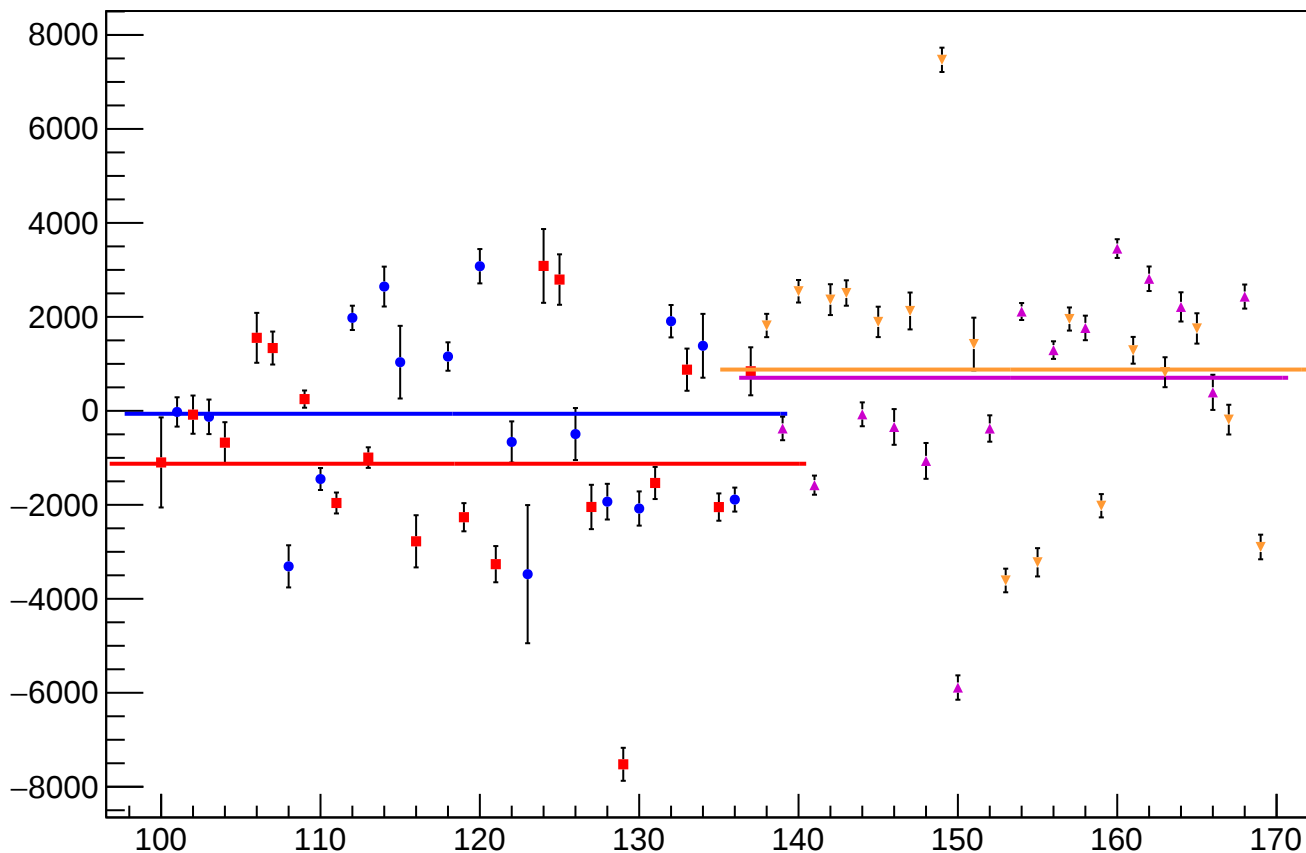
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.548+/-0.001 χ^2/NDF : 33738542.6/31

Out: 1.538+/-0.001 χ^2/NDF : 35911702.9/35

All: 1.543+/-0.001 χ^2/NDF : 69650279.1/67

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 879.029 ± 69.561 χ^2/NDF : 1677.5/16

Right Out: -1125.437 ± 78.370 χ^2/NDF : 671.2/18

Left In: 703.969 ± 64.131 χ^2/NDF : 1255.6/14

Left: 784.400 ± 47.150 χ^2/NDF : 2936.5/31

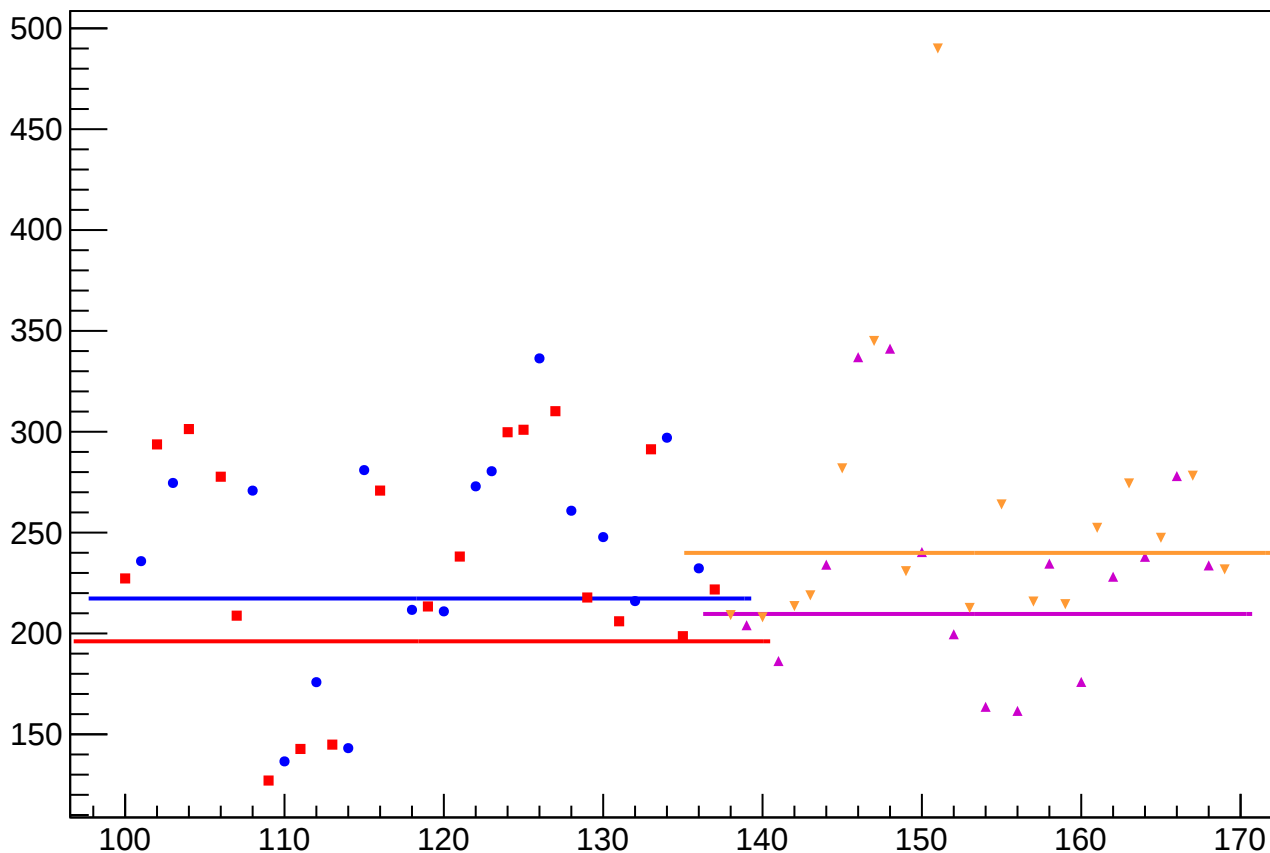
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 435.934 ± 51.710 χ^2/NDF : 1739.4/31

Out: -4.273 ± 52.024 χ^2/NDF : 2714.7/35

All: 217.163 ± 36.675 χ^2/NDF : 4490.1/67

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 239.942 $\pm$ 0.049 χ^2 /NDF:804125.8/16

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: 223.576 $\pm$ 0.033 χ^2 /NDF: 1994908.9/31

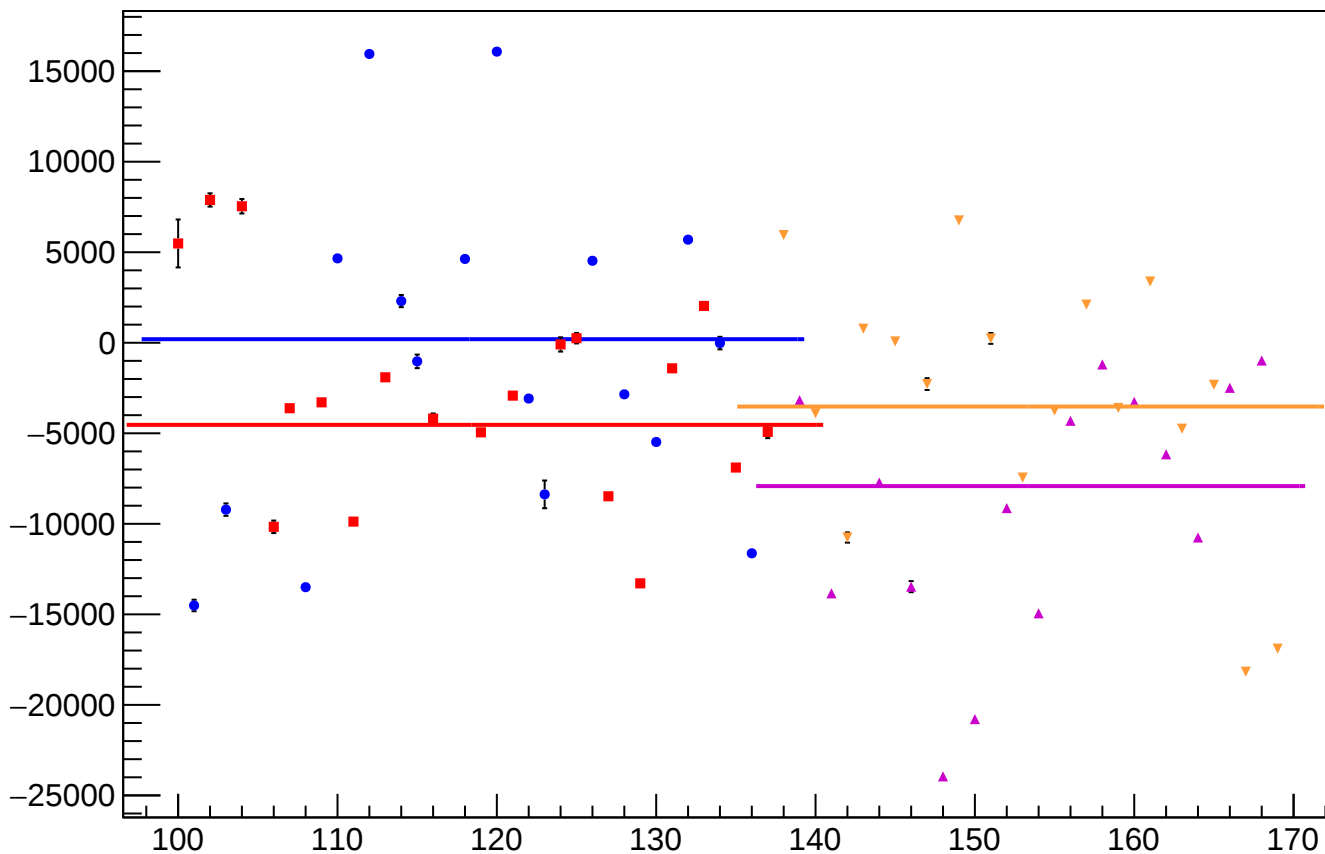
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 212.346 $\pm$ 0.037 χ^2 /NDF:1648681.4/31

Out: 220.625 $\pm$ 0.037 χ^2 /NDF:2344874.5/35

All: 216.461 $\pm$ 0.026 χ^2 /NDF: 4019030.2/67

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -3522.852 $\pm$ 48.596 χ^2/NDF :19801.7/16

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -7917.275 $\pm$ 51.177 χ^2/NDF :16462.4/14

Left: -5606.473 $\pm$ 35.240 χ^2/NDF : 40141.3/31

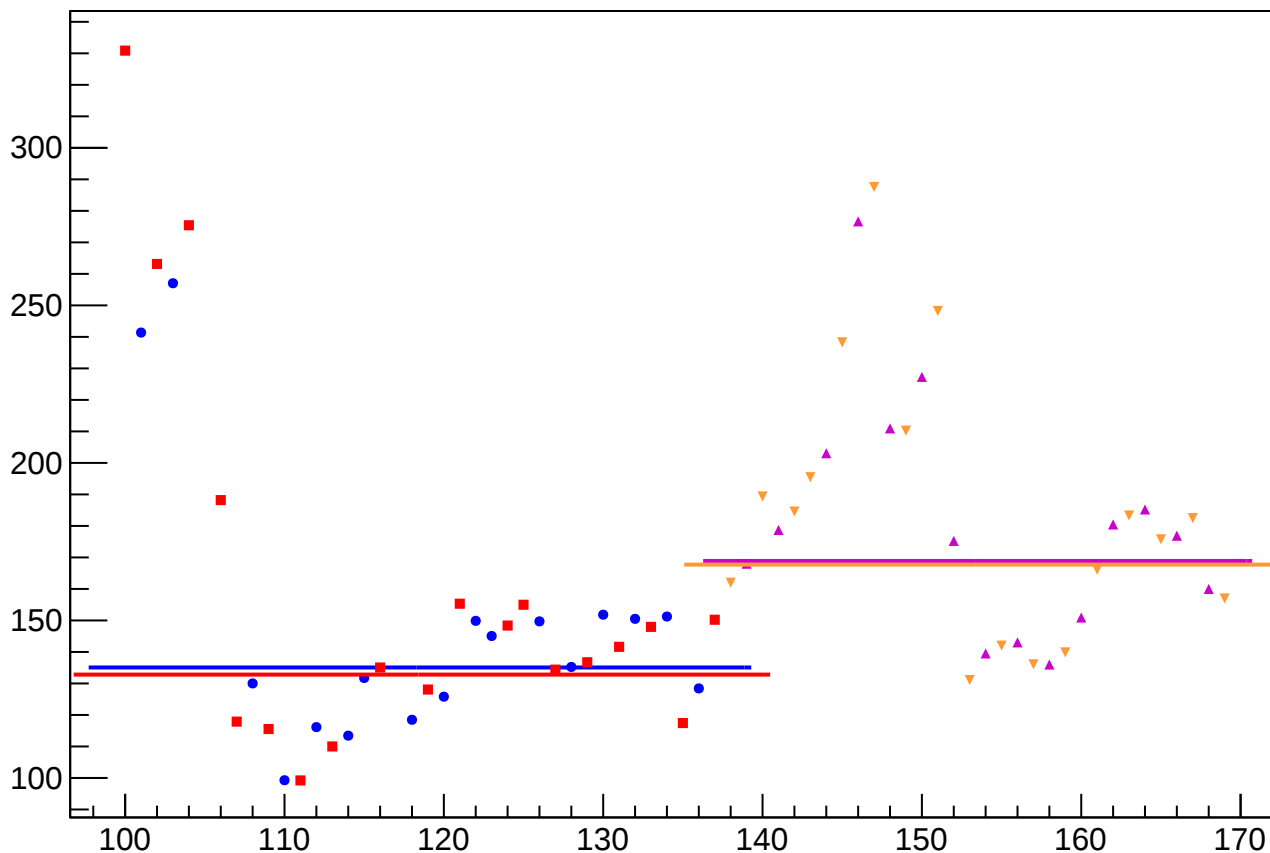
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4137.116 $\pm$ 37.402 χ^2/NDF :58832.2/31

Out: -3989.897 $\pm$ 35.651 χ^2/NDF :27478.9/35

All: -4059.979 $\pm$ 25.806 χ^2/NDF : 86319.3/67

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 167.721 $\pm$ 0.034 χ^2 /NDF:1020776.9/16

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: 168.273 $\pm$ 0.025 χ^2 /NDF: 1758033.7/31

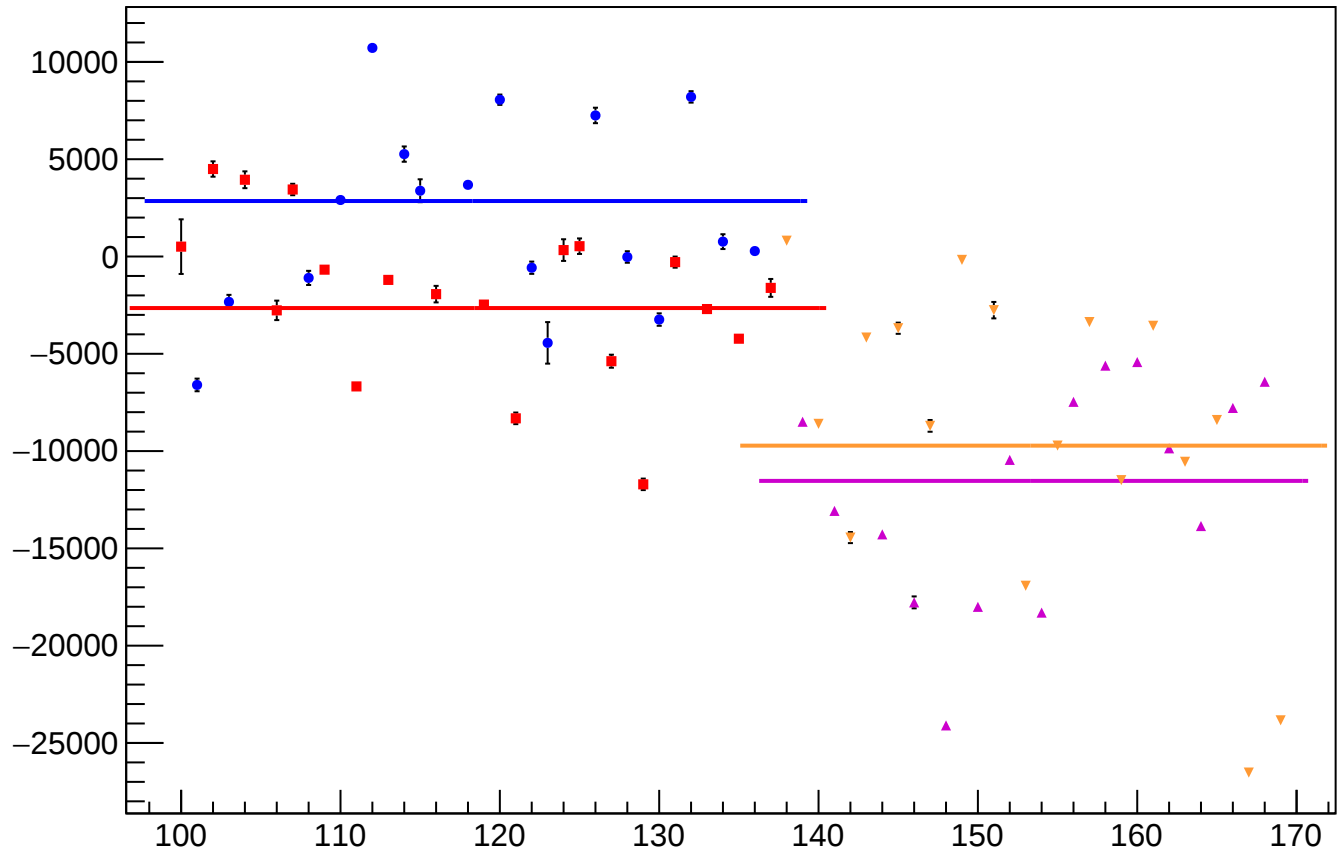
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.133 $\pm$ 0.026 χ^2 /NDF:1802158.6/31

Out: 151.602 $\pm$ 0.025 χ^2 /NDF:2328451.7/35

All: 152.331 $\pm$ 0.018 χ^2 /NDF: 4132366.3/67

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 $\pm$ 70.753 χ^2 /NDF: 4178.1/16

Left Out: -9720.201 $\pm$ 55.084 χ^2 /NDF:20854.8/16

Right Out: -2649.142 $\pm$ 65.731 χ^2 /NDF: 3175.7/18

Left In: -11532.072 $\pm$ 51.711 χ^2 /NDF:10481.7/14

Left: -10683.301 $\pm$ 37.701 χ^2 /NDF: 31911.6/31

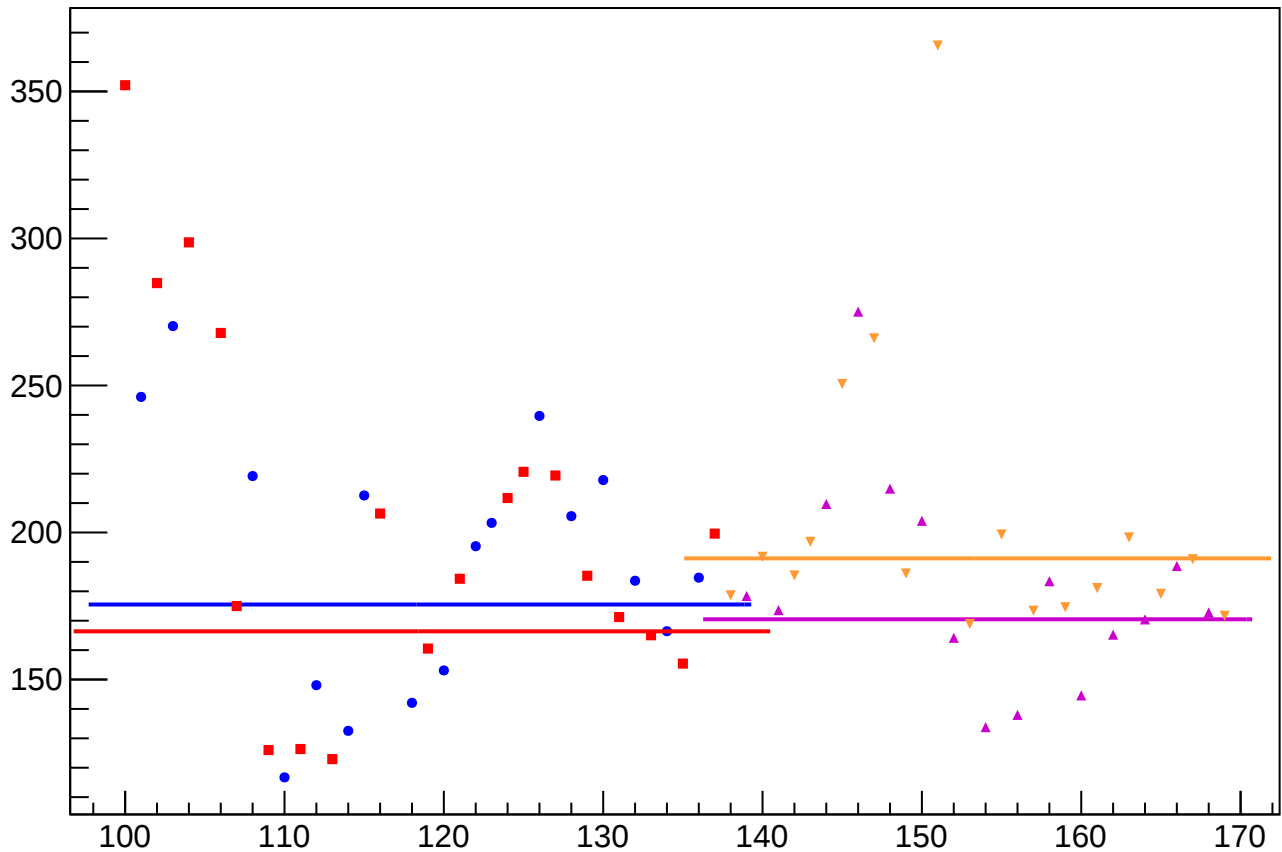
Right: -100.998 $\pm$ 48.156 χ^2 /NDF: 10597.9/35

In: -6524.040 $\pm$ 41.749 χ^2 /NDF:41597.8/31

Out: -6803.014 $\pm$ 42.219 χ^2 /NDF:30828.7/35

All: -6661.966 $\pm$ 29.686 χ^2 /NDF: 72448.6/67

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 191.200+/-0.039 χ^2/NDF : 650099.6/16

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: 180.190+/-0.027 χ^2/NDF : 1487030.8/31

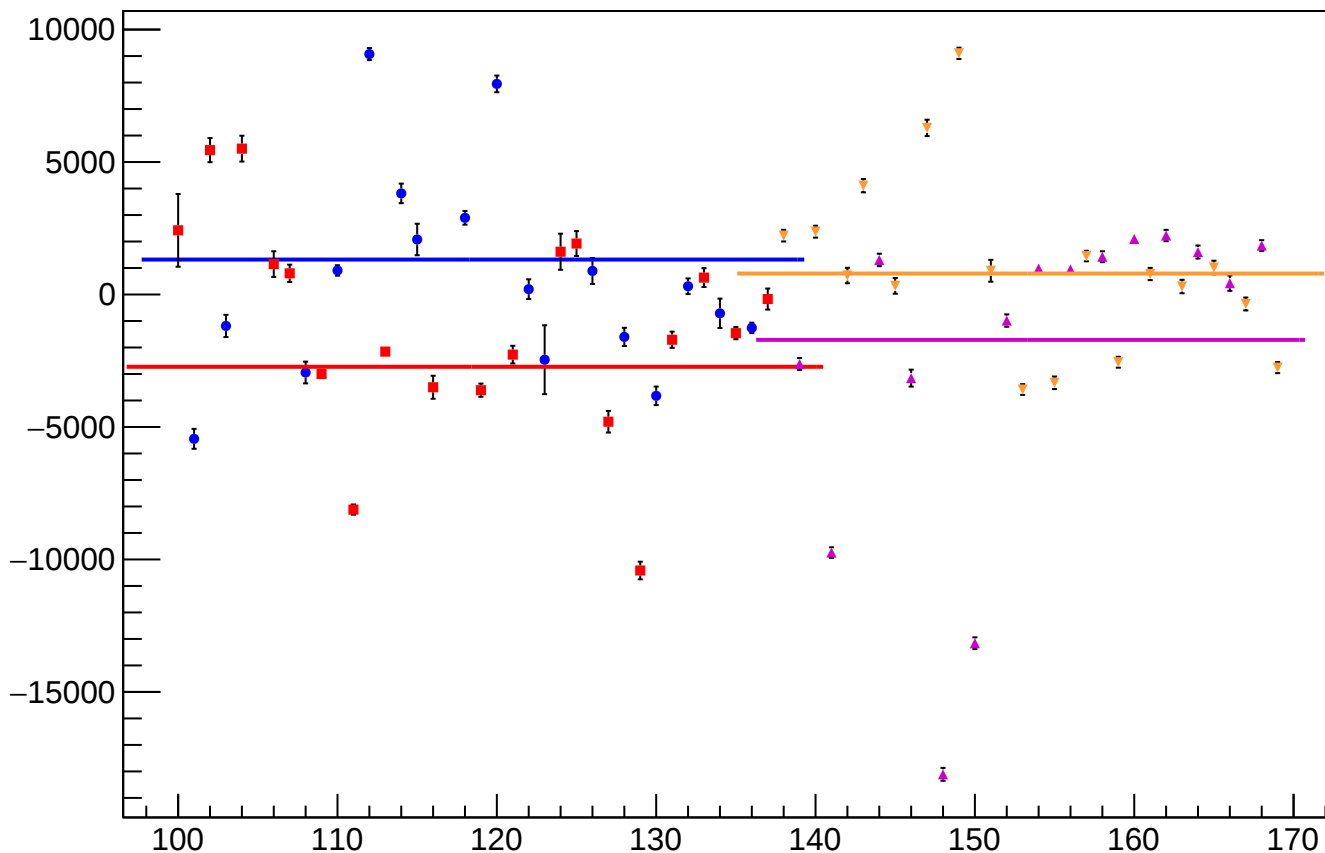
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.238+/-0.030 χ^2/NDF : 1382840.6/31

Out: 180.966+/-0.030 χ^2/NDF : 1746981.7/35

All: 176.553+/-0.021 χ^2/NDF : 3173039.5/67

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 791.421+/-58.011 χ^2/NDF :3465.2/16

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: -547.816+/-39.558 χ^2/NDF : 15672.7/31

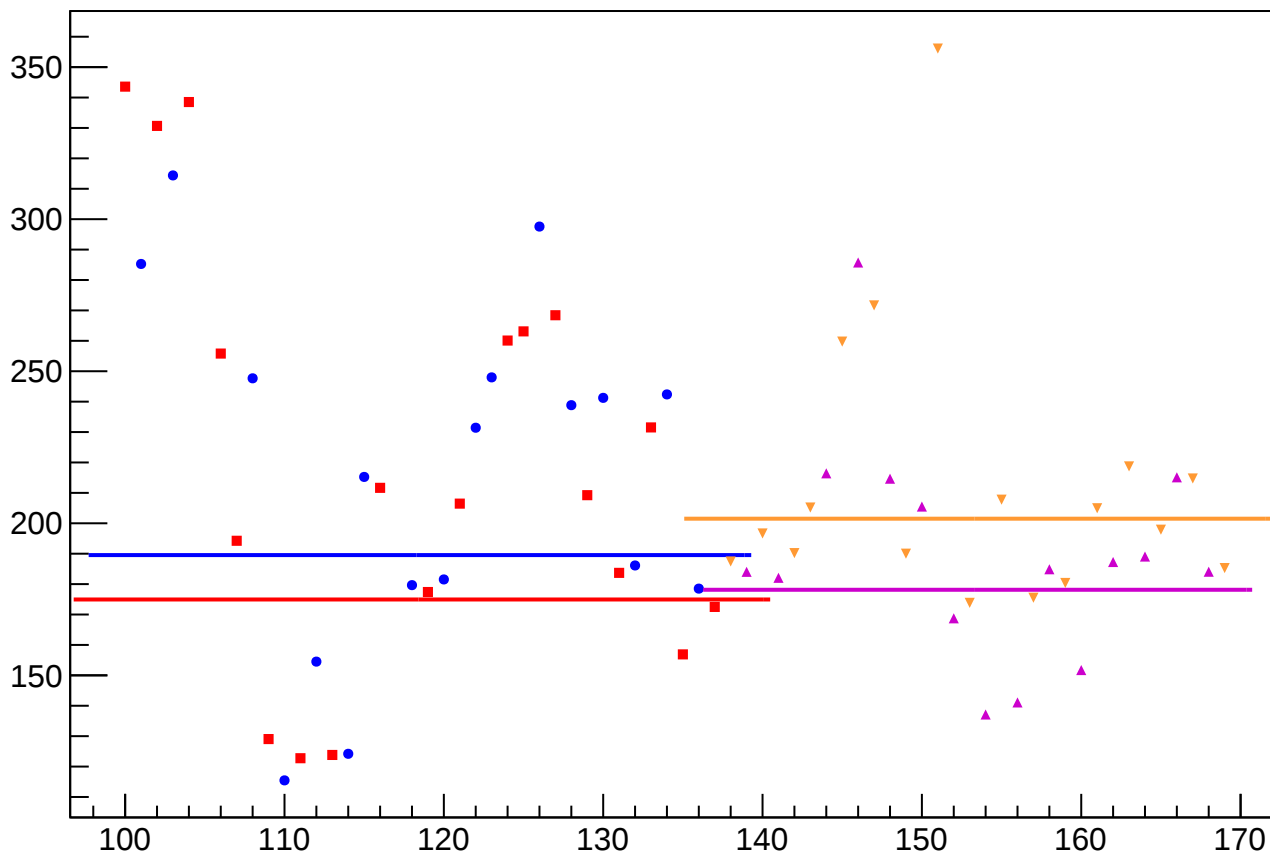
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -713.101+/-44.284 χ^2/NDF :14913.2/31

Out: -640.745+/-44.674 χ^2/NDF :7458.8/35

All: -677.240+/-31.450 χ^2/NDF : 22373.3/67

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.512 $\pm$ 0.041 χ^2 /NDF: 600944.7/16

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 178.137 $\pm$ 0.038 χ^2 /NDF: 702448.8/14

Left: 189.006 $\pm$ 0.028 χ^2 /NDF: 1477121.0/31

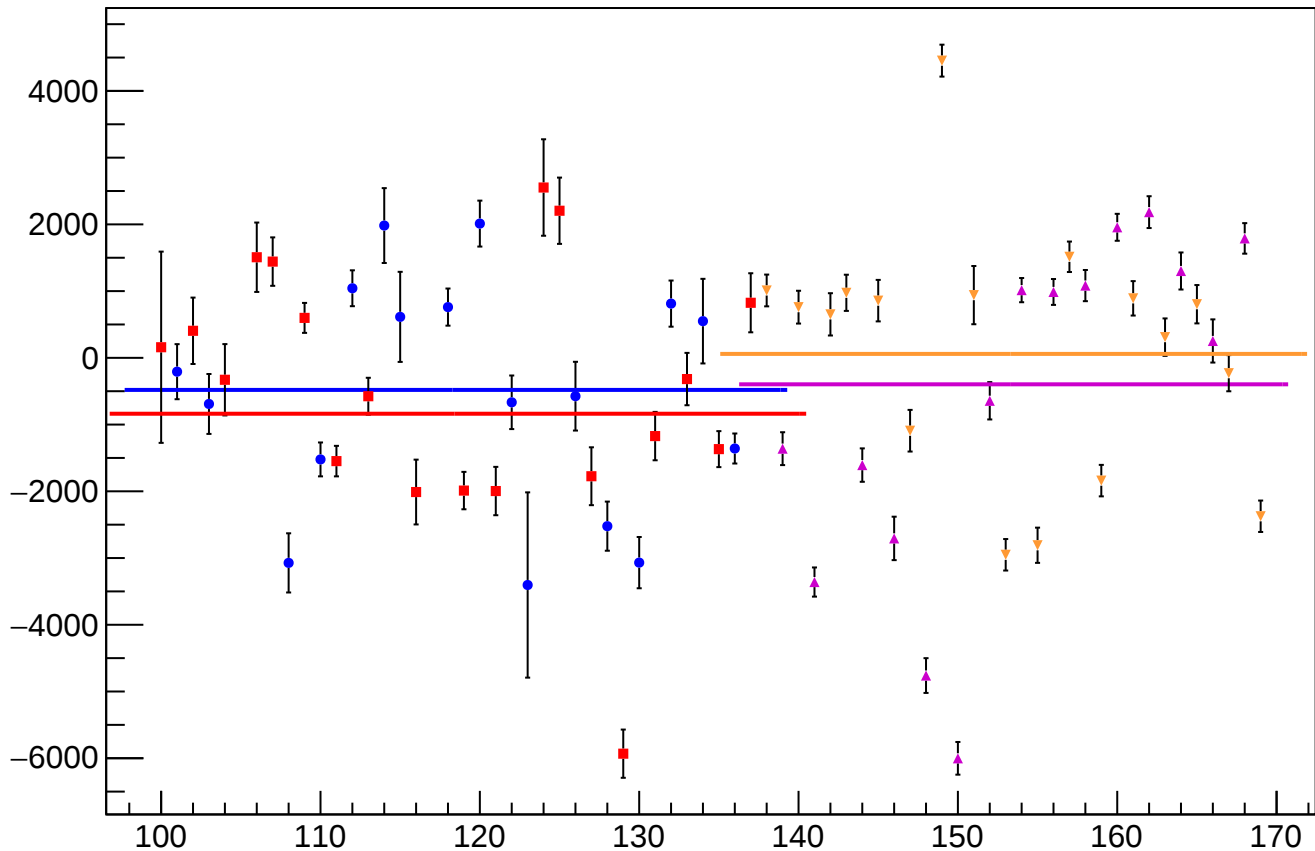
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 181.896 $\pm$ 0.031 χ^2 /NDF: 1712515.0/31

Out: 190.700 $\pm$ 0.032 χ^2 /NDF: 2068768.2/35

All: 186.259 $\pm$ 0.022 χ^2 /NDF: 3820460.1/67

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 59.010 $\pm$ 64.268 χ^2/NDF : 912.7/16

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -396.715 $\pm$ 61.304 χ^2/NDF : 1615.2/14

Left: -179.603 $\pm$ 44.359 χ^2/NDF : 2554.2/31

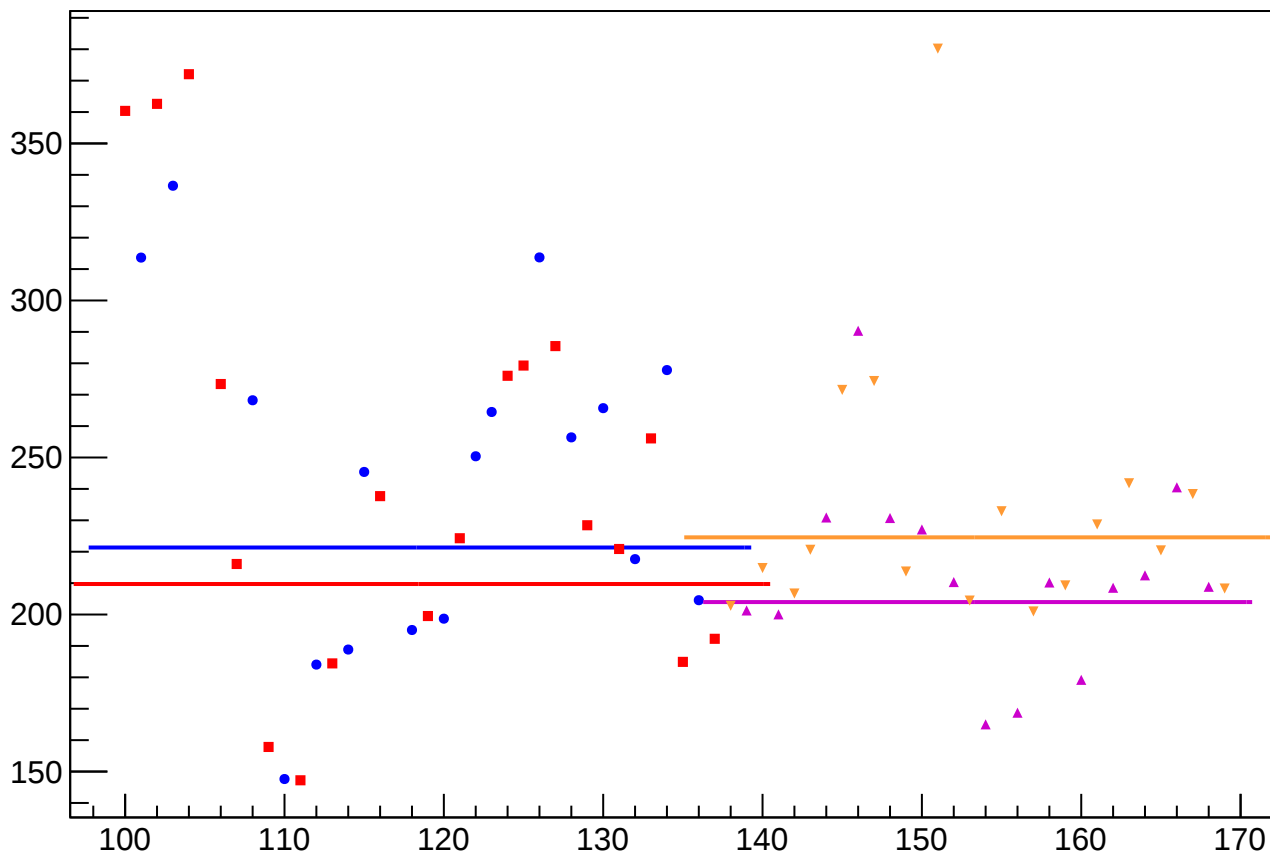
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -423.850 $\pm$ 50.420 χ^2/NDF : 1906.5/31

Out: -280.862 $\pm$ 50.640 χ^2/NDF : 1421.7/35

All: -352.667 $\pm$ 35.730 χ^2/NDF : 3332.2/67

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.576 $\pm$ 0.045 χ^2 /NDF: 451291.9/16

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: 213.785 $\pm$ 0.031 χ^2 /NDF: 982590.6/31

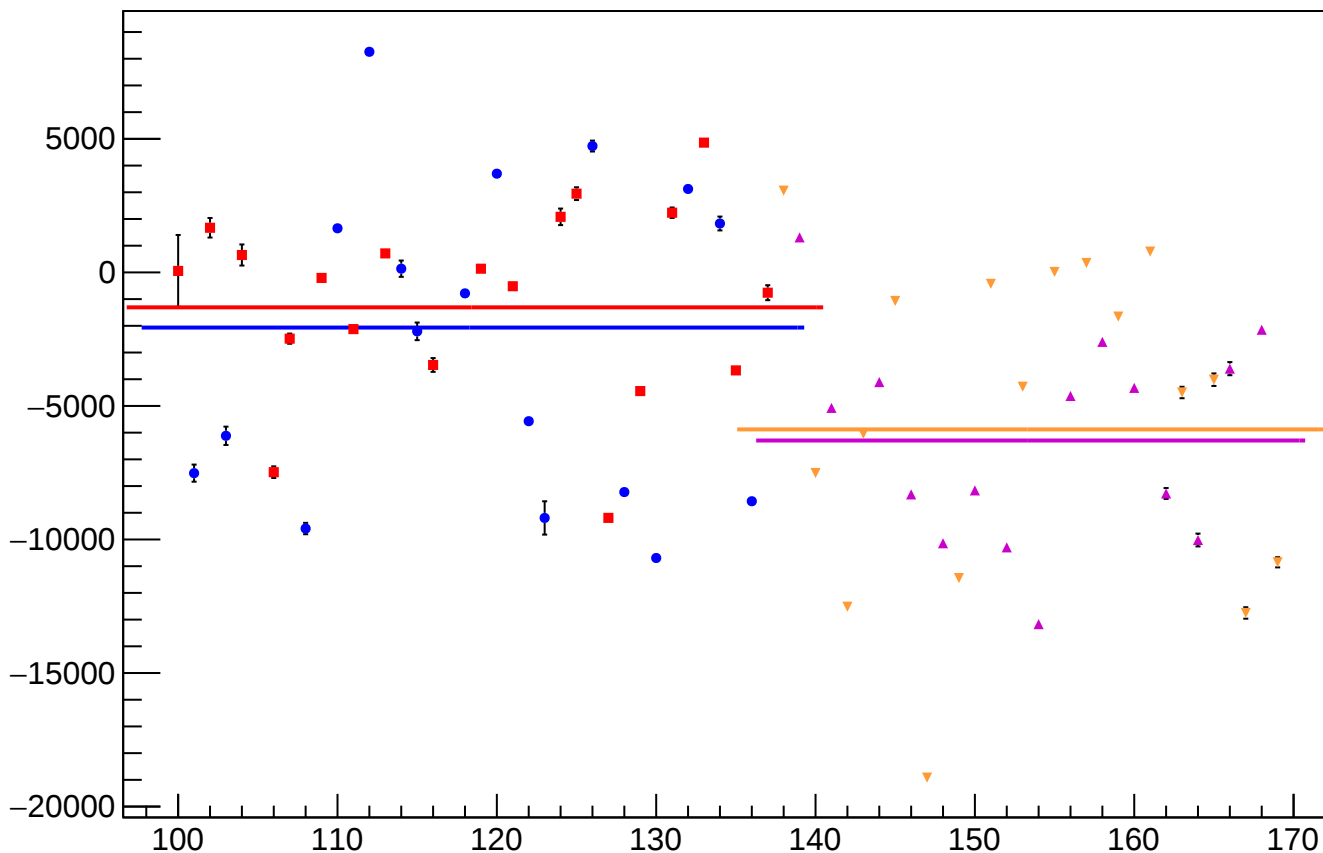
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 209.589 $\pm$ 0.036 χ^2 /NDF: 1121291.0/31

Out: 218.942 $\pm$ 0.036 χ^2 /NDF: 1375743.3/35

All: 214.245 $\pm$ 0.025 χ^2 /NDF: 2531296.0/67

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -5878.738 $\pm$ 36.689 χ^2/NDF :30027.5/16

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -6293.907 $\pm$ 38.085 χ^2/NDF :9629.0/14

Left: -6078.575 $\pm$ 26.423 χ^2/NDF : 39718.1/31

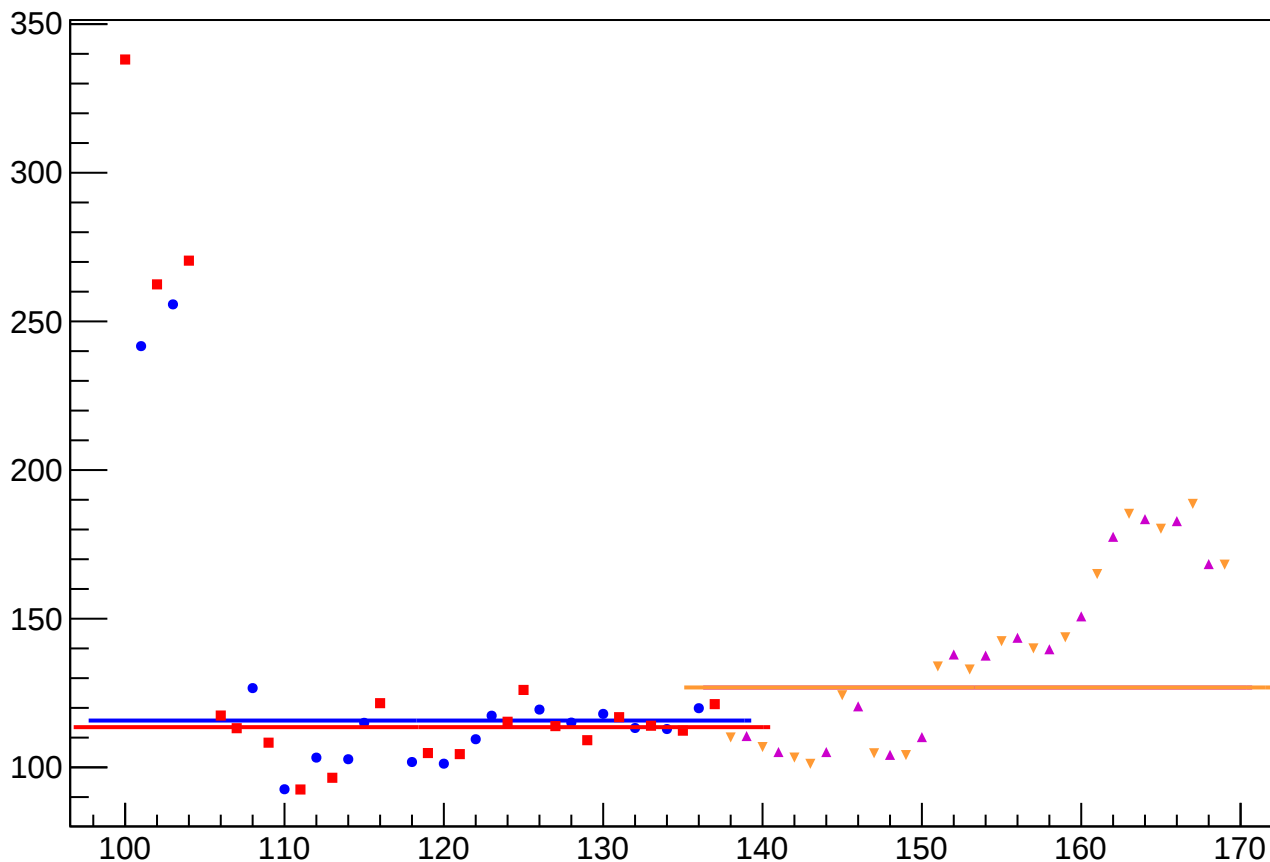
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4631.623 $\pm$ 29.670 χ^2/NDF :31008.7/31

Out: -4053.901 $\pm$ 28.436 χ^2/NDF :42117.7/35

All: -4330.501 $\pm$ 20.529 χ^2/NDF : 73324.0/67

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 126.871 $\pm$ 0.026 χ^2 /NDF:1015591.8/16

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: 126.857 $\pm$ 0.019 χ^2 /NDF: 1839426.0/31

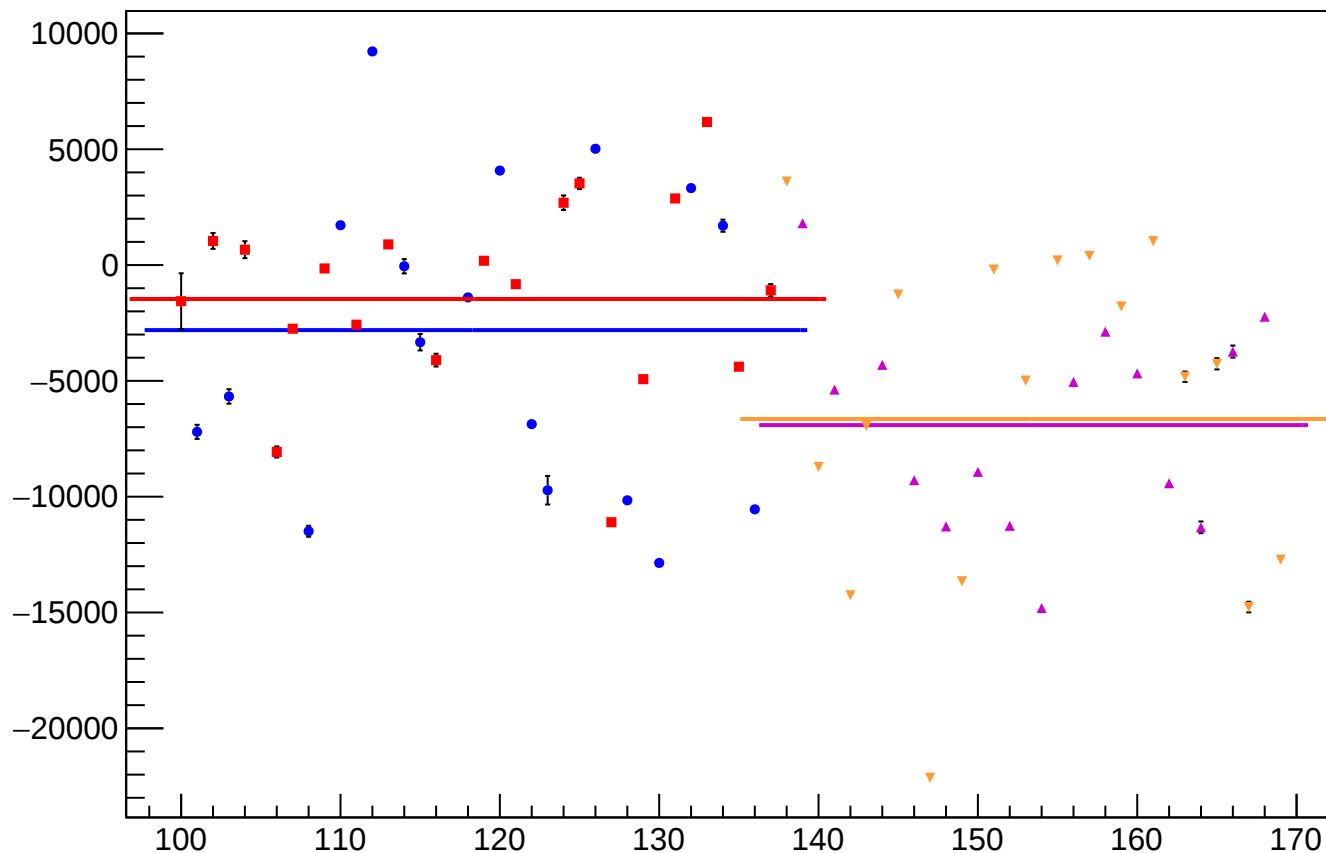
Right: 114.574 $\pm$ 0.023 χ^2 /NDF: 1542972.7/35

In: 122.478 $\pm$ 0.021 χ^2 /NDF:1634654.8/31

Out: 121.540 $\pm$ 0.020 χ^2 /NDF:1918004.3/35

All: 121.989 $\pm$ 0.015 χ^2 /NDF: 3553701.5/67

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6644.032+/-38.951 χ^2/NDF : 36370.7/16

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: -6771.706+/-28.056 χ^2/NDF : 47742.4/31

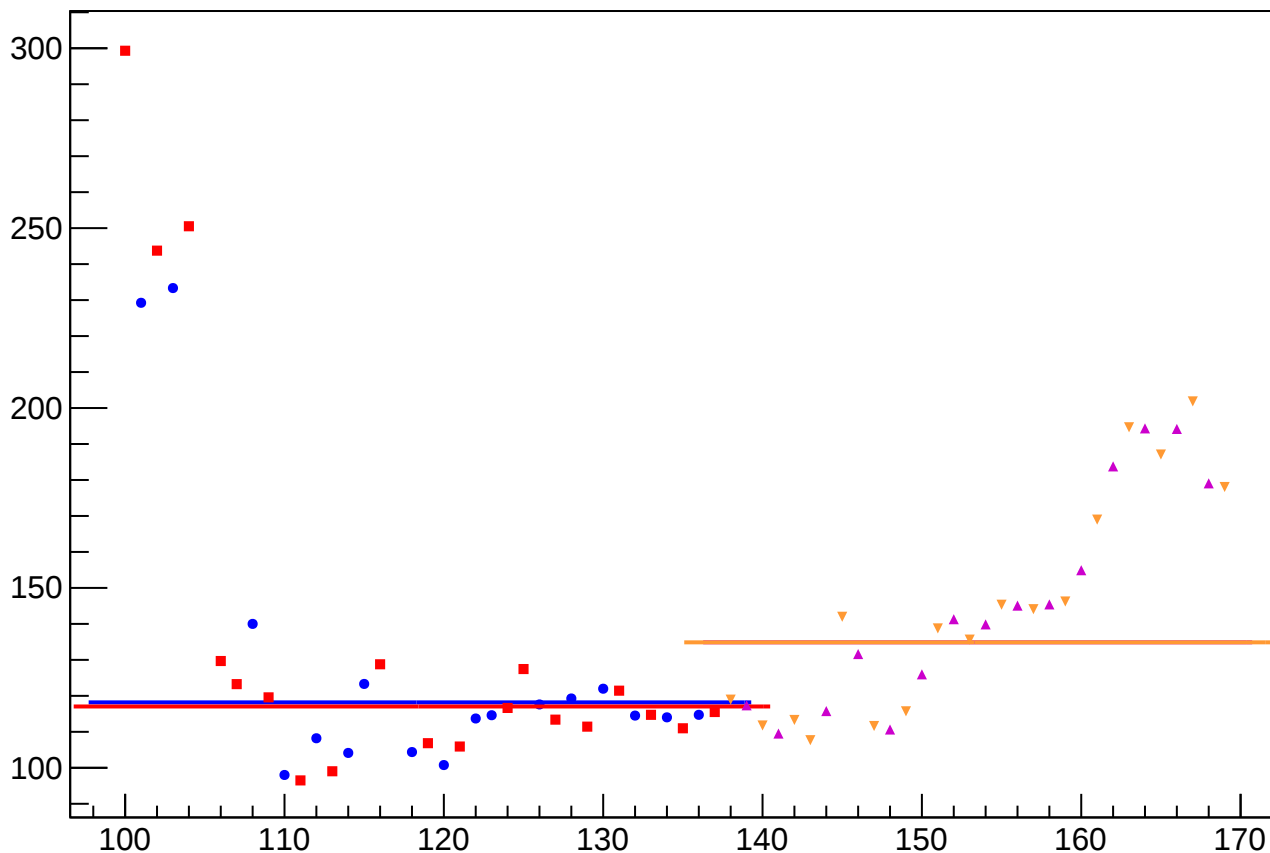
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5218.648+/-31.005 χ^2/NDF : 36850.3/31

Out: -4502.798+/-29.832 χ^2/NDF : 51684.4/35

All: -4846.917+/-21.497 χ^2/NDF : 88811.5/67

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 134.872+/-0.028 χ^2/NDF : 897615.7/16

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: 134.877+/-0.020 χ^2/NDF : 1614656.7/31

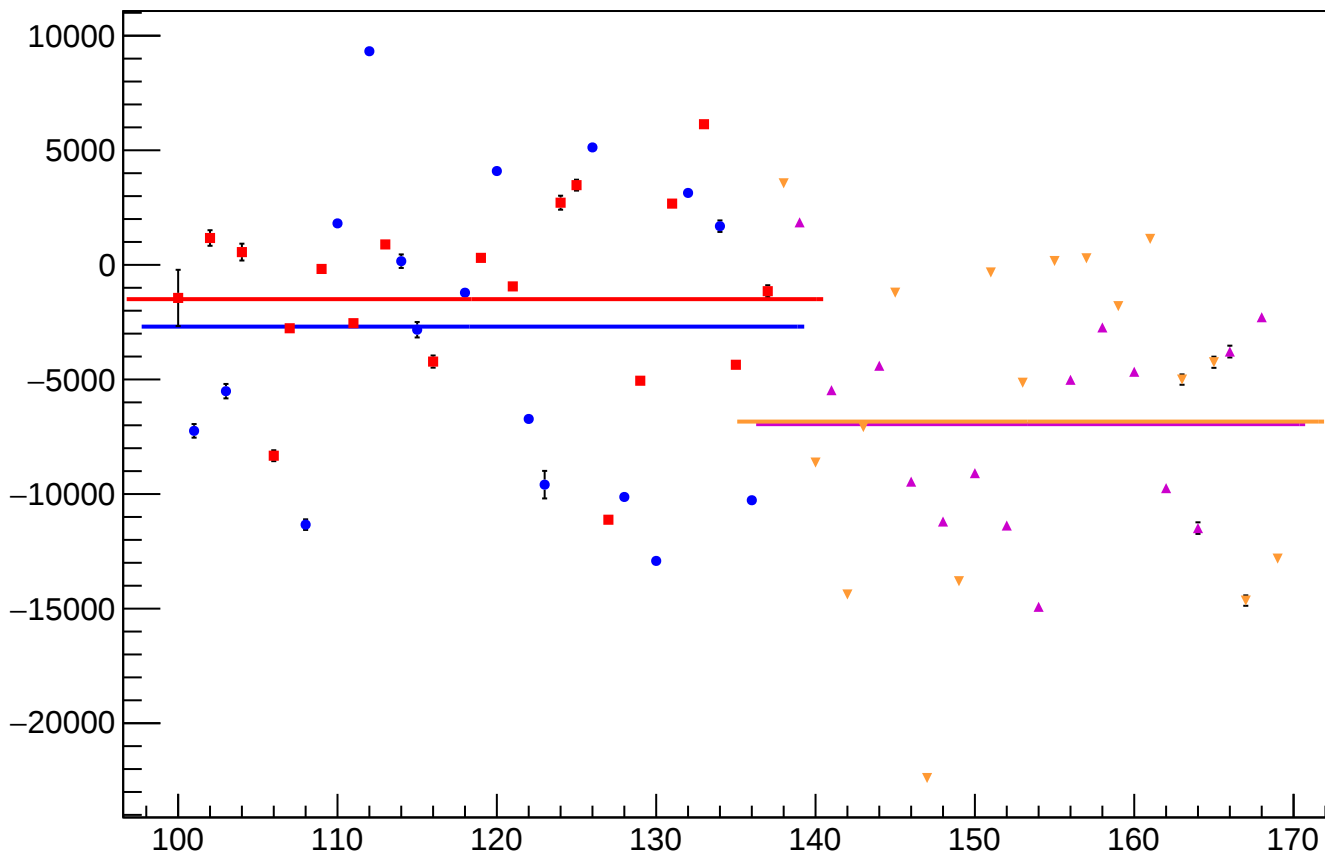
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 127.999+/-0.022 χ^2/NDF : 1493805.7/31

Out: 127.502+/-0.021 χ^2/NDF : 1761448.2/35

All: 127.741+/-0.015 χ^2/NDF : 3255521.2/67

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6838.116+/-38.025 χ^2/NDF : 39495.4/16

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: -6892.350+/-27.357 χ^2/NDF : 51710.4/31

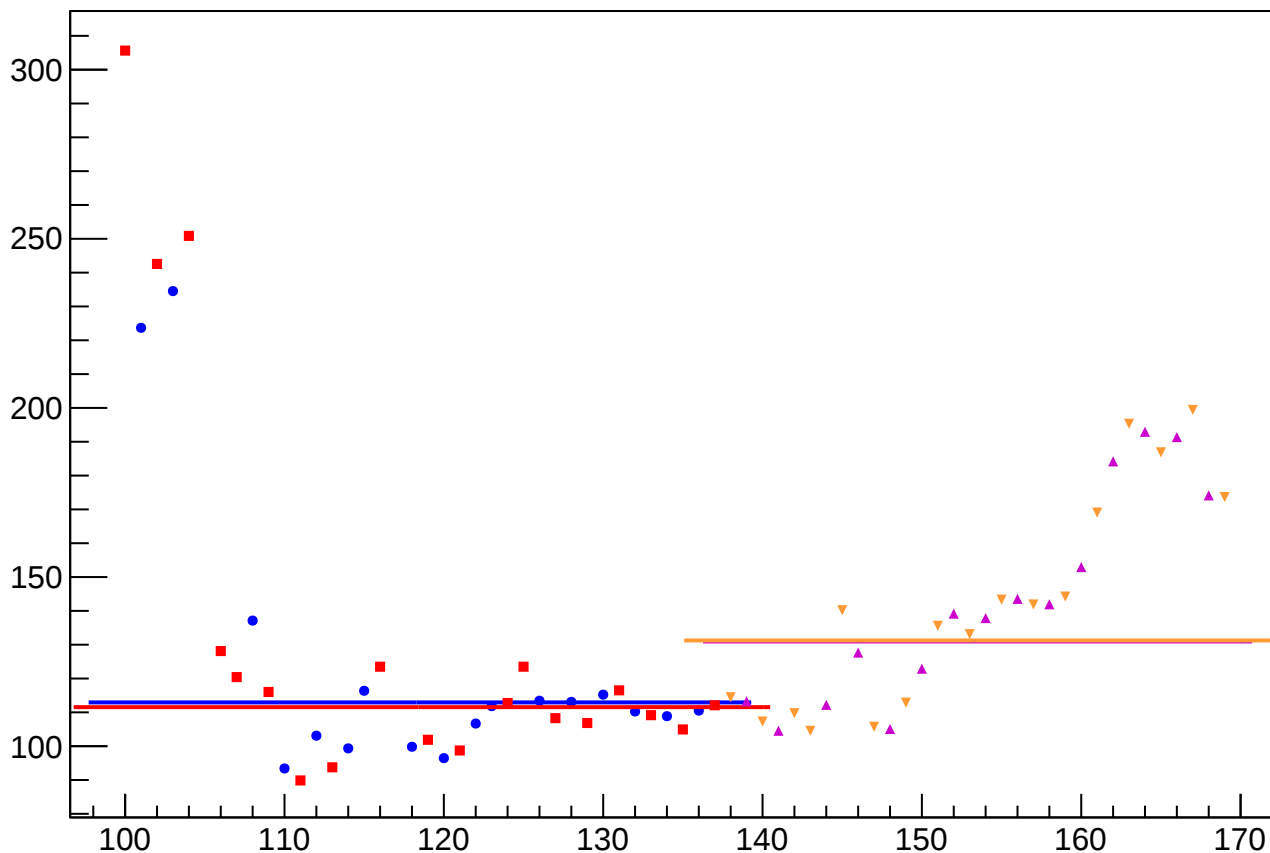
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5165.572+/-30.014 χ^2/NDF : 39968.0/31

Out: -4580.293+/-28.893 χ^2/NDF : 56554.8/35

All: -4861.803+/-20.816 χ^2/NDF : 96720.1/67

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 131.252 $\pm$ 0.027 χ^2 /NDF:1006651.1/16

Right Out: 111.544 $\pm$ 0.031 χ^2 /NDF: 765502.6/18

Left In: 130.950 $\pm$ 0.028 χ^2 /NDF:810049.6/14

Left: 131.106 $\pm$ 0.019 χ^2 /NDF: 1816761.6/31

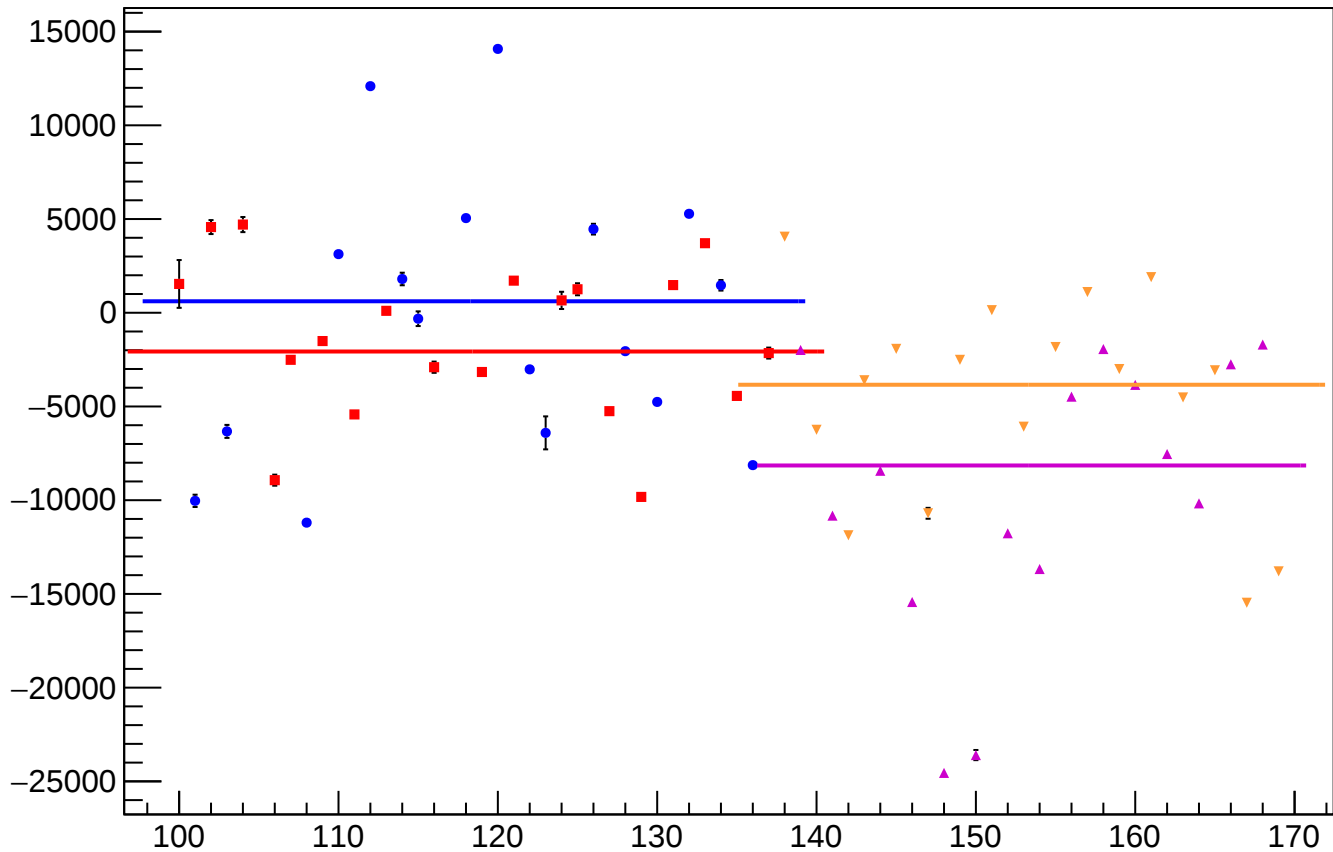
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 123.397 $\pm$ 0.021 χ^2 /NDF:1665673.9/31

Out: 122.923 $\pm$ 0.020 χ^2 /NDF:1999224.0/35

All: 123.151 $\pm$ 0.015 χ^2 /NDF: 3665157.2/67

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -3840.696 ± 44.898 $\chi^2/\text{NDF}: 13559.8/16$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -8147.619 ± 47.894 $\chi^2/\text{NDF}: 15998.5/14$

Left: -5855.265 ± 32.756 $\chi^2/\text{NDF}: 33862.5/31$

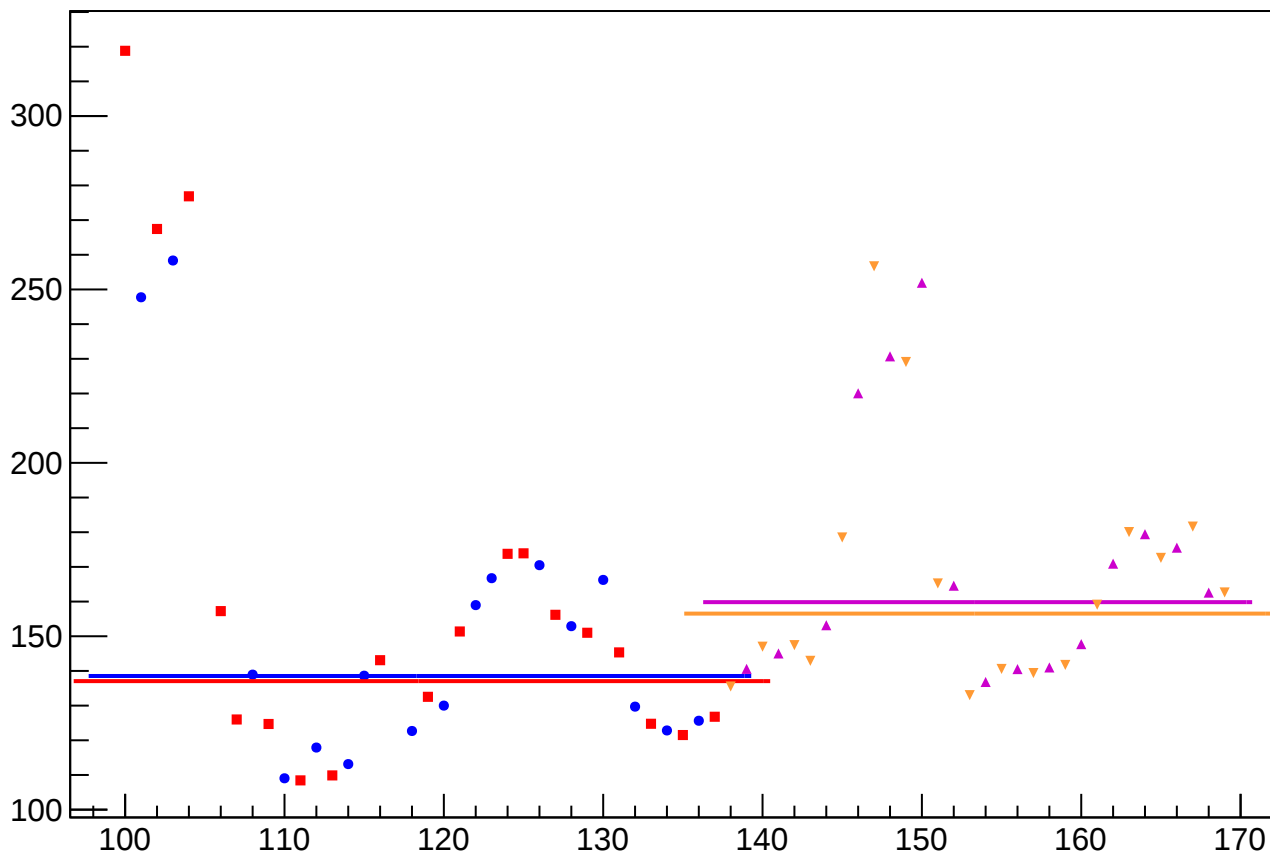
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4451.581 ± 36.415 $\chi^2/\text{NDF}: 48357.3/31$

Out: -3114.780 ± 34.506 $\chi^2/\text{NDF}: 18841.1/35$

All: -3747.222 ± 25.047 $\chi^2/\text{NDF}: 67908.5/67$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 156.531 $\pm$ 0.032 χ^2 /NDF: 658981.2/16

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: 158.076 $\pm$ 0.023 χ^2 /NDF: 1354058.6/31

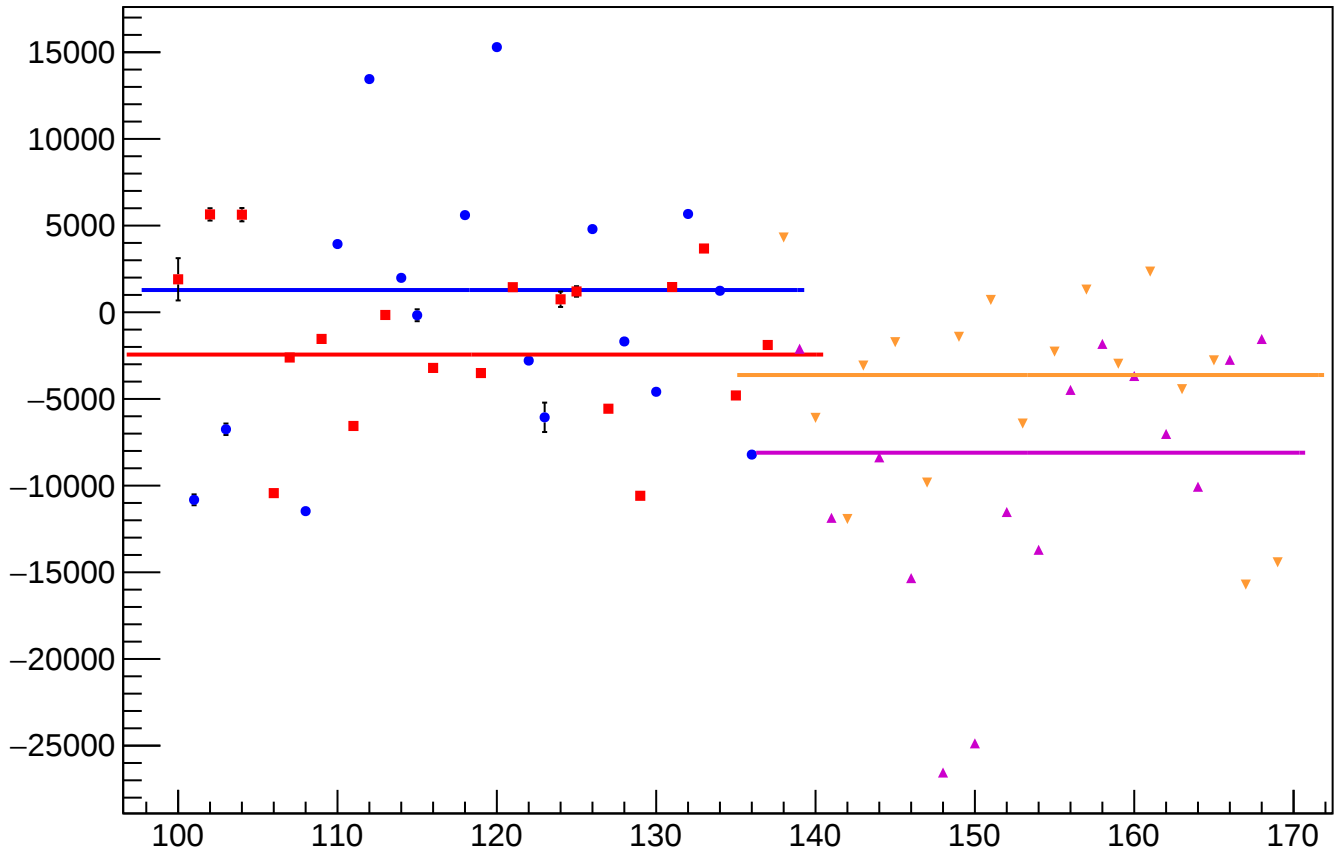
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 150.851 $\pm$ 0.026 χ^2 /NDF: 1525745.5/31

Out: 148.561 $\pm$ 0.024 χ^2 /NDF: 1568437.1/35

All: 149.644 $\pm$ 0.018 χ^2 /NDF: 3098352.1/67

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978 $\pm$ 46.572 χ^2 /NDF: 30540.8/16

Left Out: -3620.103 $\pm$ 40.116 χ^2 /NDF:17844.0/16

Right Out: -2440.256 $\pm$ 44.286 χ^2 /NDF: 7677.5/18

Left In: -8102.089 $\pm$ 42.870 χ^2 /NDF:21097.3/14

Left: -5712.511 $\pm$ 29.292 χ^2 /NDF: 44768.8/31

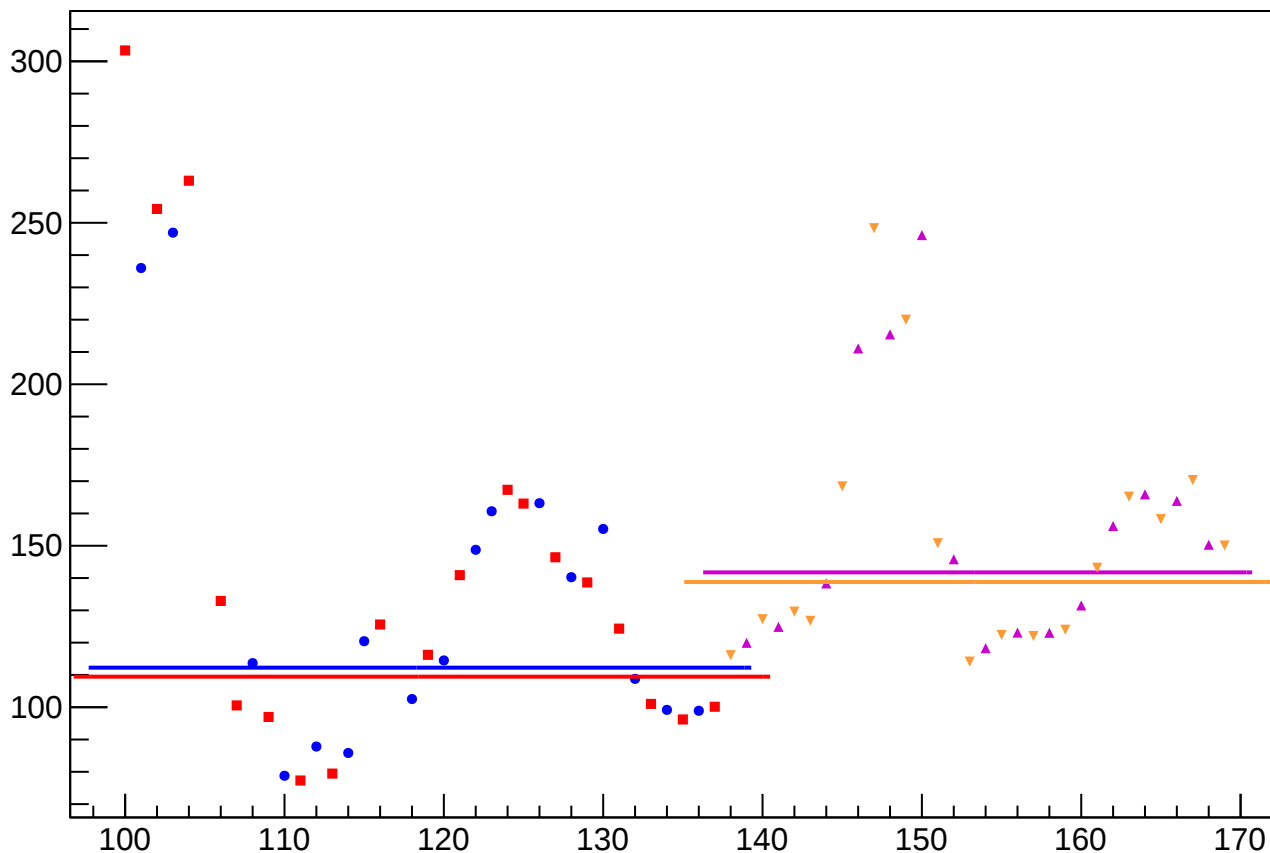
Right: -672.266 $\pm$ 32.093 χ^2 /NDF: 41574.7/35

In: -3797.335 $\pm$ 31.541 χ^2 /NDF:73620.4/31

Out: -3088.328 $\pm$ 29.732 χ^2 /NDF:25911.4/35

All: -3421.906 $\pm$ 21.635 χ^2 /NDF: 99799.4/67

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 $\pm$ 0.033 χ^2/NDF : 1125537.4/16

Left Out: 138.783 $\pm$ 0.028 χ^2/NDF : 931616.9/16

Right Out: 109.460 $\pm$ 0.031 χ^2/NDF : 1269633.4/18

Left In: 141.754 $\pm$ 0.030 χ^2/NDF : 948915.1/14

Left: 140.170 $\pm$ 0.021 χ^2/NDF : 1885653.2/31

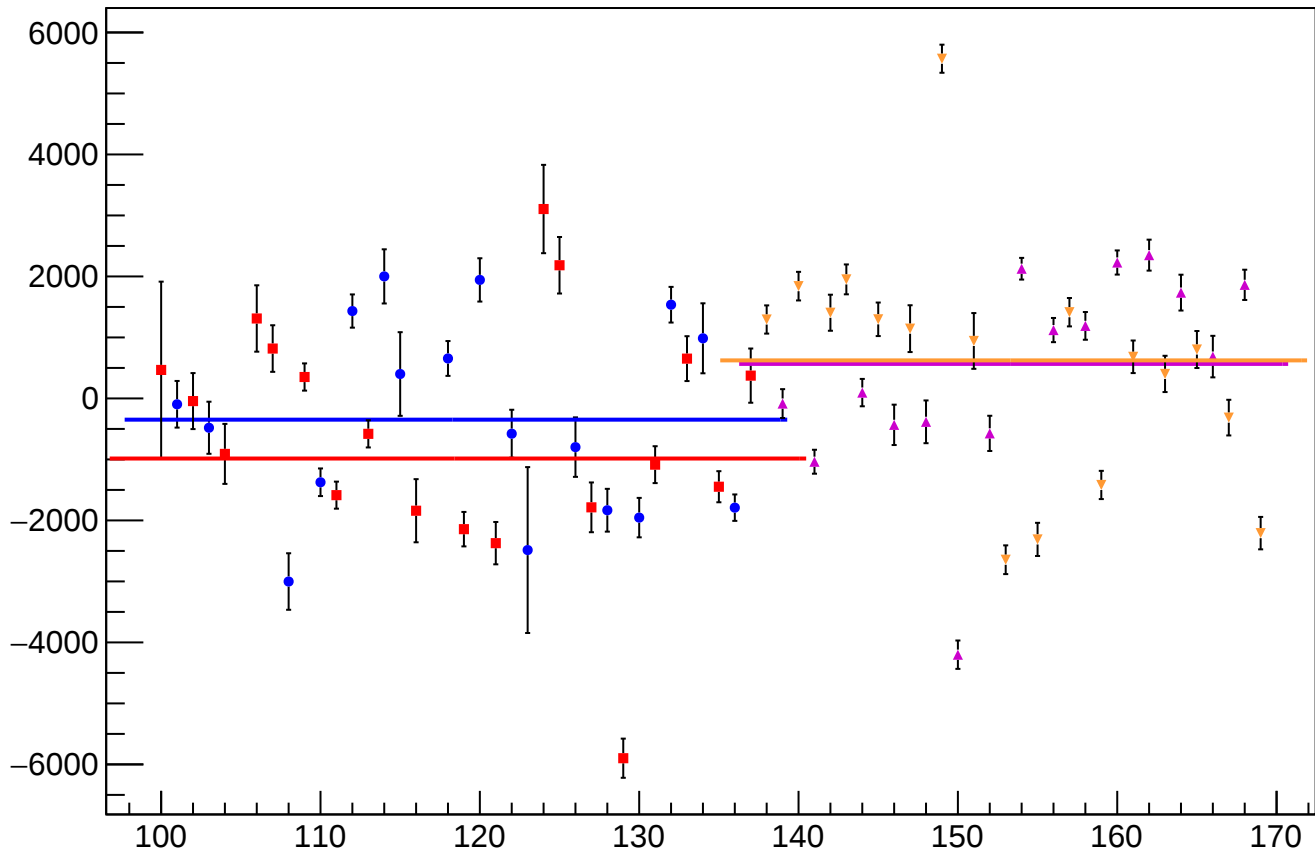
Right: 110.785 $\pm$ 0.023 χ^2/NDF : 2398941.6/35

In: 128.221 $\pm$ 0.022 χ^2/NDF : 2508923.7/31

Out: 125.567 $\pm$ 0.021 χ^2/NDF : 2682862.4/35

All: 126.816 $\pm$ 0.015 χ^2/NDF : 5199287.6/67

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055+/-83.826 χ^2/NDF : 317.3/16

Left Out: 623.708+/-64.632 χ^2/NDF :1064.3/16

Right Out: -985.242+/-77.683 χ^2/NDF : 476.6/18

Left In: 565.943+/-61.389 χ^2/NDF :786.2/14

Left: 593.340+/-44.511 χ^2/NDF : 1850.9/31

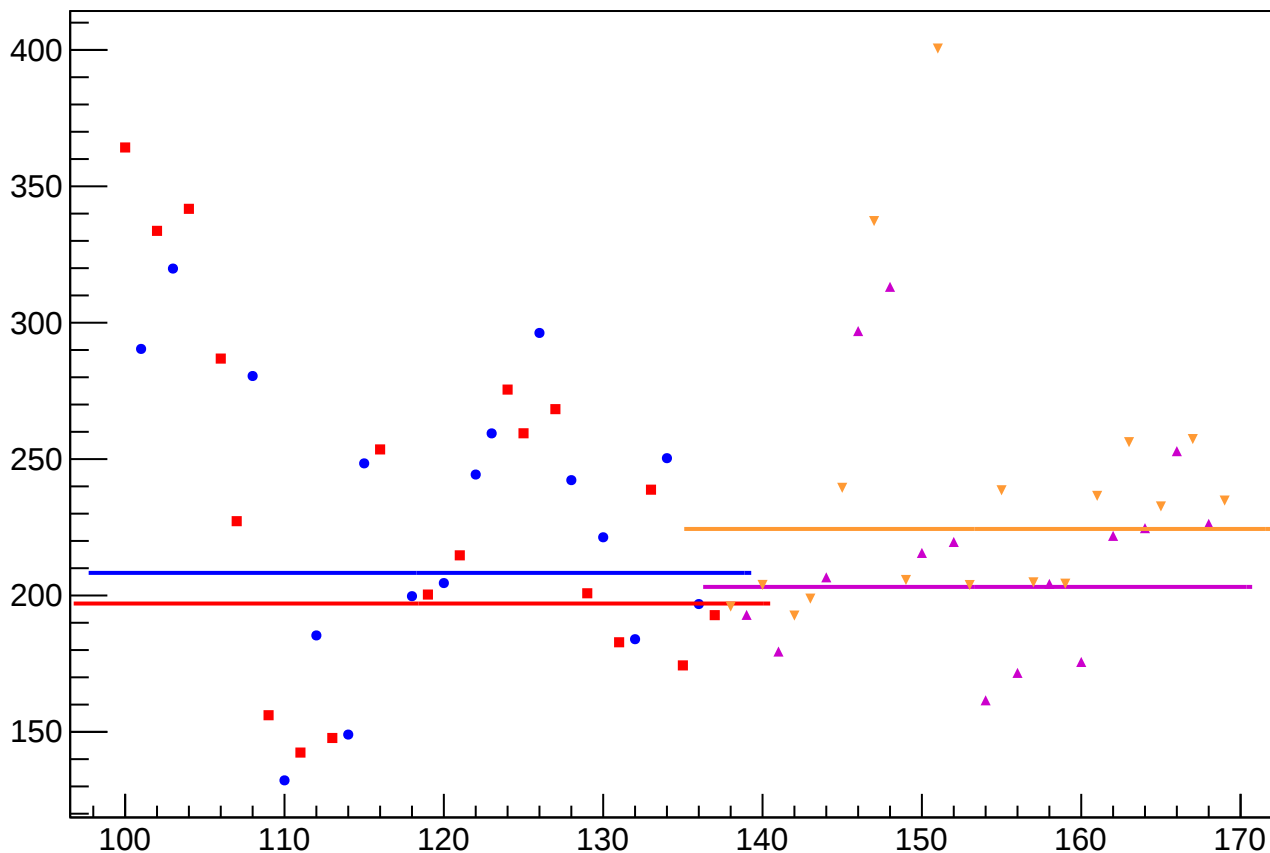
Right: -690.850+/-56.978 χ^2/NDF : 824.9/35

In: 246.873+/-49.528 χ^2/NDF :1180.9/31

Out: -34.448+/-49.684 χ^2/NDF :1794.3/35

All: 106.655+/-35.077 χ^2/NDF : 2991.3/67

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 224.395+/-0.046 χ^2/NDF : 686472.9/16

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 203.147+/-0.043 χ^2/NDF : 683484.1/14

Left: 213.225+/-0.031 χ^2/NDF : 1483588.5/31

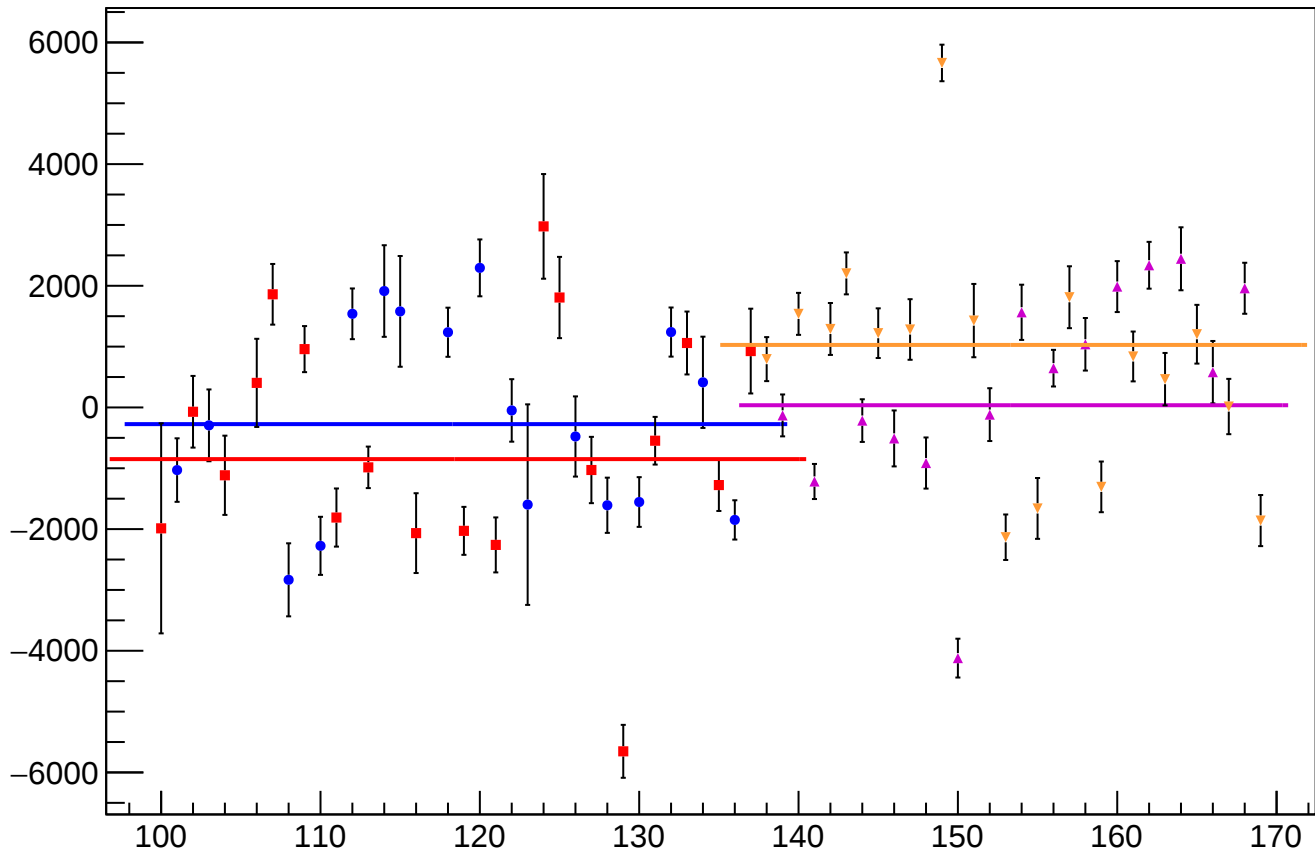
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 204.942+/-0.035 χ^2/NDF : 1386870.1/31

Out: 213.210+/-0.035 χ^2/NDF : 1759690.4/35

All: 209.063+/-0.025 χ^2/NDF : 3174339.3/67

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1027.743 ± 99.645 $\chi^2/\text{NDF}: 441.9/16$

Right Out: -849.413 ± 115.349 $\chi^2/\text{NDF}: 263.3/18$

Left In: 36.366 ± 99.494 $\chi^2/\text{NDF}: 318.1/14$

Left: 531.302 ± 70.406 $\chi^2/\text{NDF}: 809.6/31$

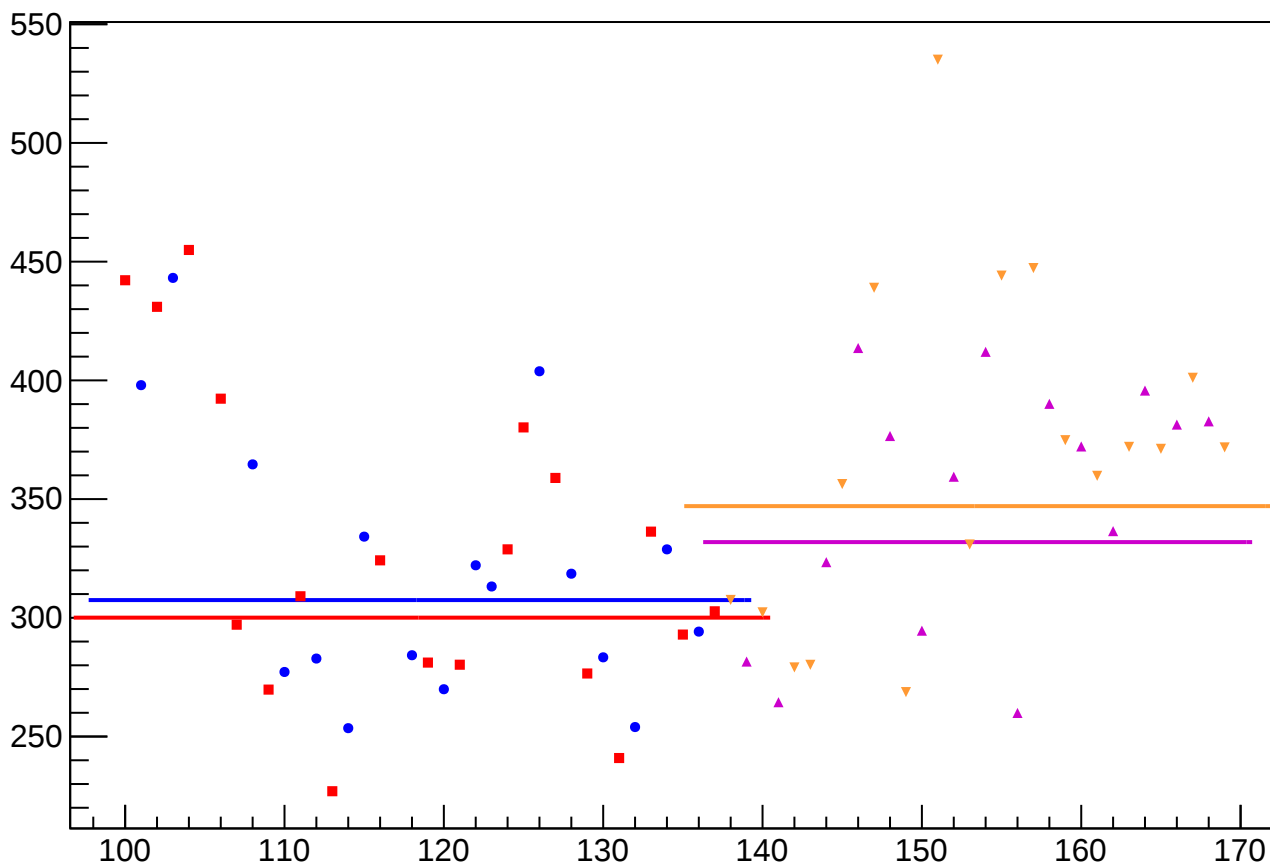
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -88.533 ± 76.933 $\chi^2/\text{NDF}: 493.6/31$

Out: 225.554 ± 75.405 $\chi^2/\text{NDF}: 856.8/35$

All: 71.661 ± 53.852 $\chi^2/\text{NDF}: 1358.9/67$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 347.037+/-0.070 χ^2/NDF : 797642.0/16

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 331.886+/-0.070 χ^2/NDF : 584496.1/14

Left: 339.450+/-0.050 χ^2/NDF : 1405291.5/31

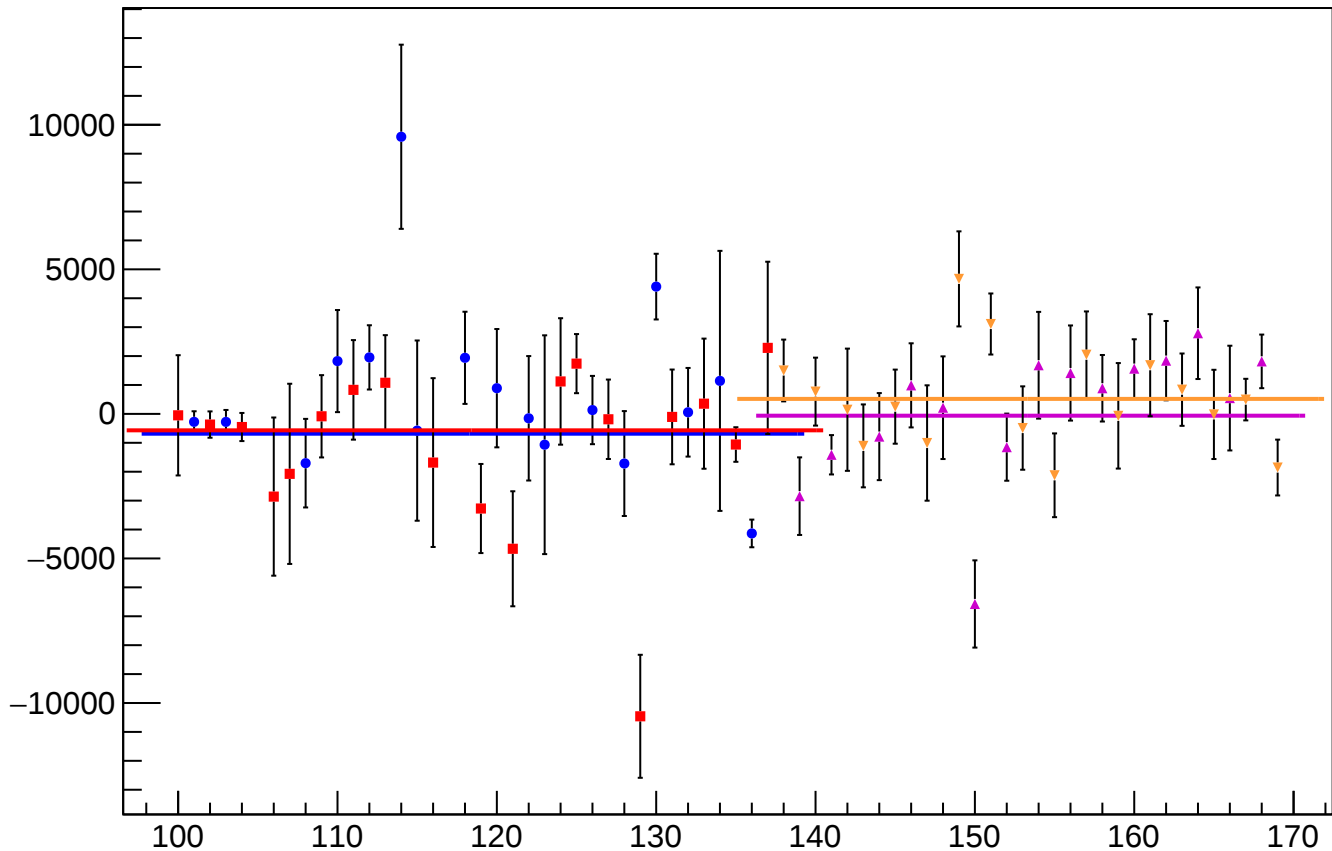
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 322.068+/-0.054 χ^2/NDF : 956031.2/31

Out: 326.966+/-0.053 χ^2/NDF : 1477925.8/35

All: 324.566+/-0.038 χ^2/NDF : 2438091.2/67

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 518.831 $\pm$ 308.210 χ^2/NDF :26.9/16

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -62.220 $\pm$ 317.636 χ^2/NDF :42.9/14

Left: 237.055 $\pm$ 221.194 χ^2/NDF : 71.4/31

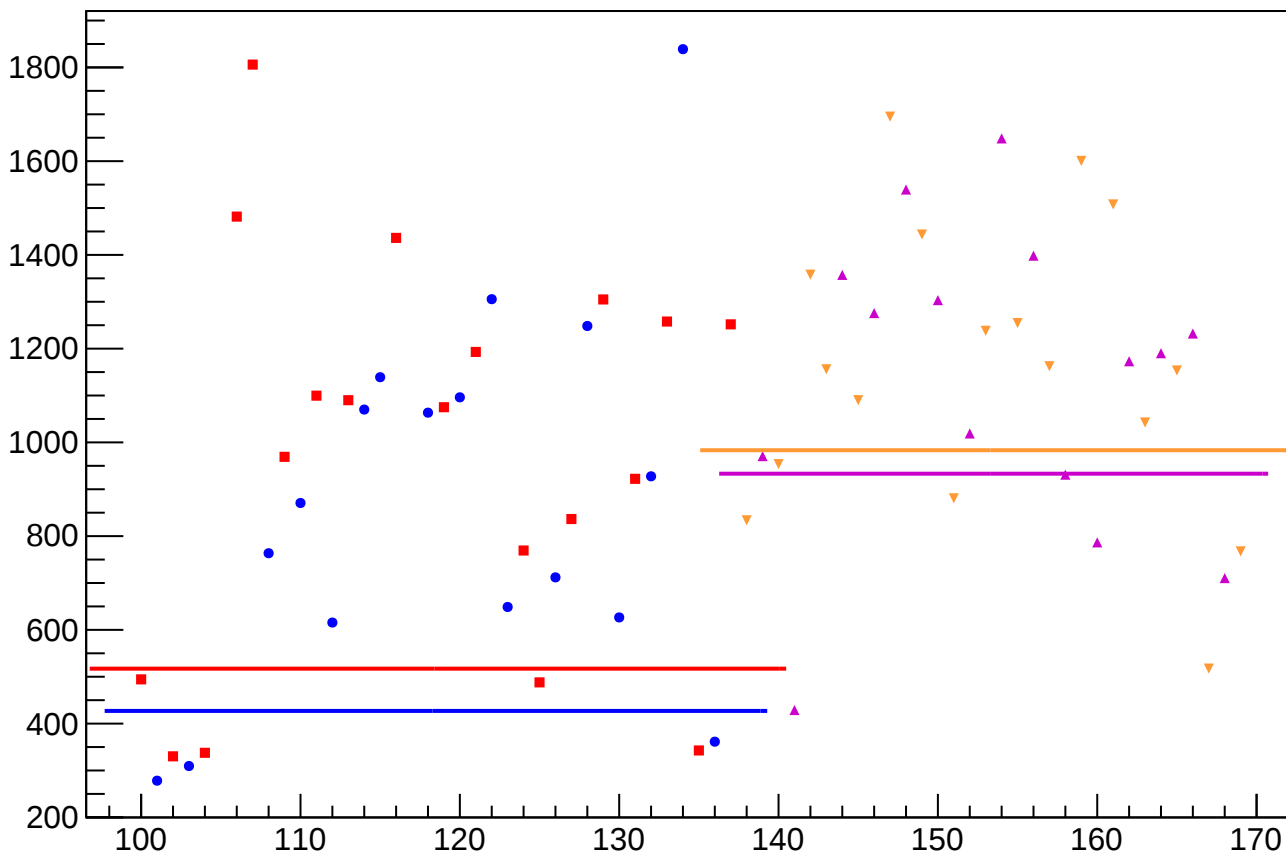
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -495.190 $\pm$ 175.374 χ^2/NDF :142.9/31

Out: -151.255 $\pm$ 190.945 χ^2/NDF :74.2/35

All: -337.816 $\pm$ 129.163 χ^2/NDF : 218.9/67

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 983.256+/-0.218 χ^2/NDF : 2111201.5/16

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: 958.983+/-0.156 χ^2/NDF : 4656167.3/31

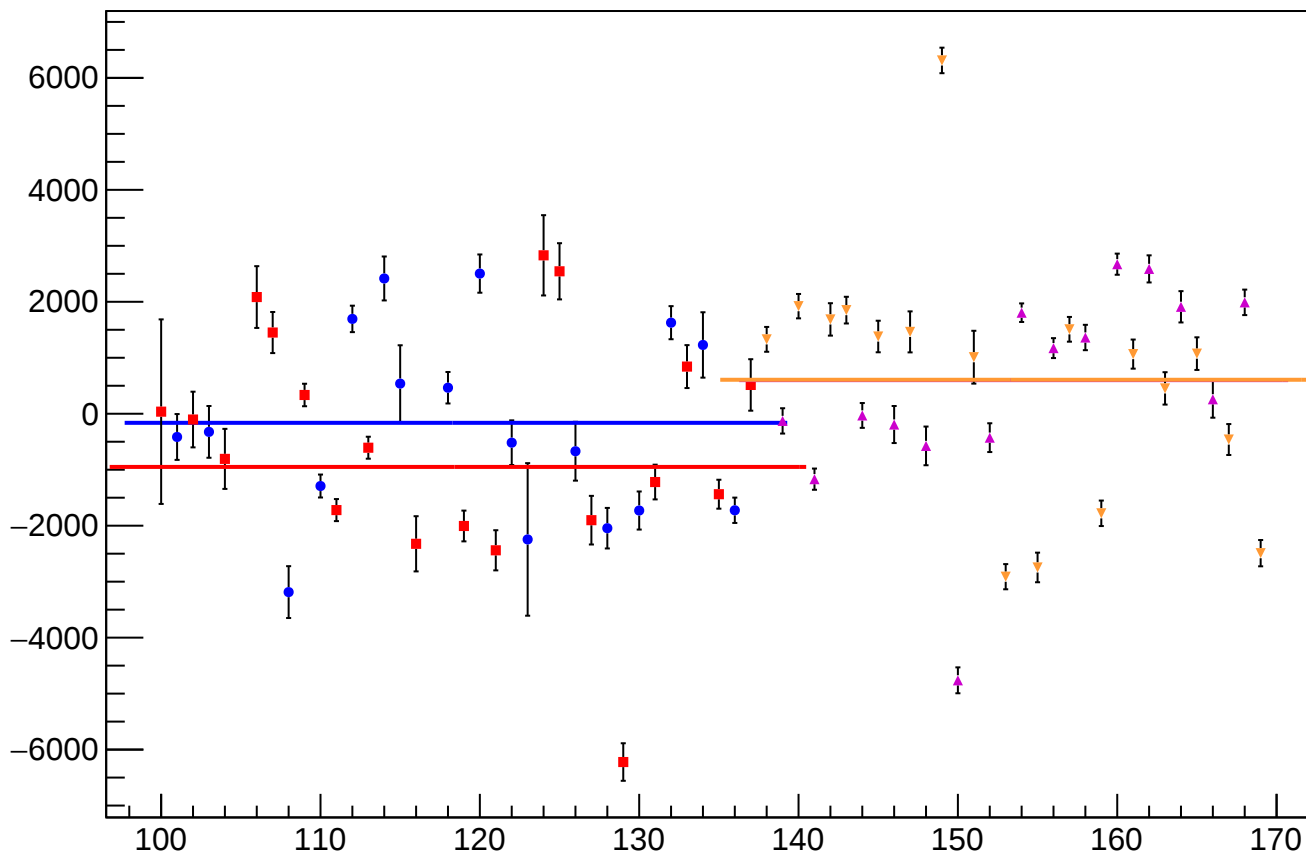
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 581.366+/-0.124 χ^2/NDF : 8914999.5/31

Out: 696.102+/-0.135 χ^2/NDF : 8533782.3/35

All: 633.866+/-0.091 χ^2/NDF : 17840487.5/67

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333+/-82.350 χ^2/NDF : 387.6/16

Left Out: 606.936+/-62.227 χ^2/NDF :1454.7/16

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: 603.508+/-42.597 χ^2/NDF : 2453.2/31

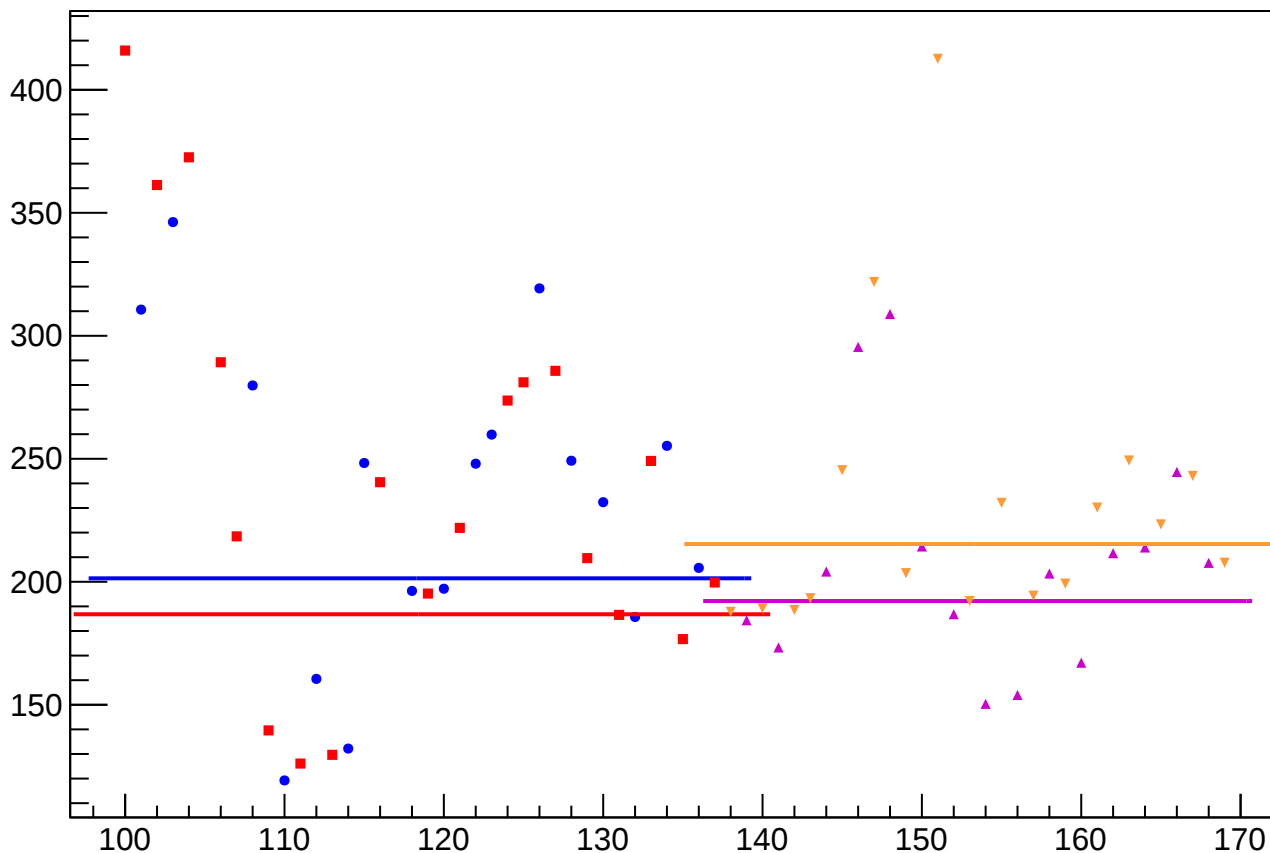
Right: -592.238+/-55.504 χ^2/NDF : 977.3/35

In: 345.025+/-47.656 χ^2/NDF :1443.1/31

Out: -26.568+/-47.925 χ^2/NDF :2249.2/35

All: 160.274+/-33.792 χ^2/NDF : 3722.5/67

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 215.341+/-0.044 χ^2/NDF : 755385.9/16

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: 203.032+/-0.030 χ^2/NDF : 1717326.9/31

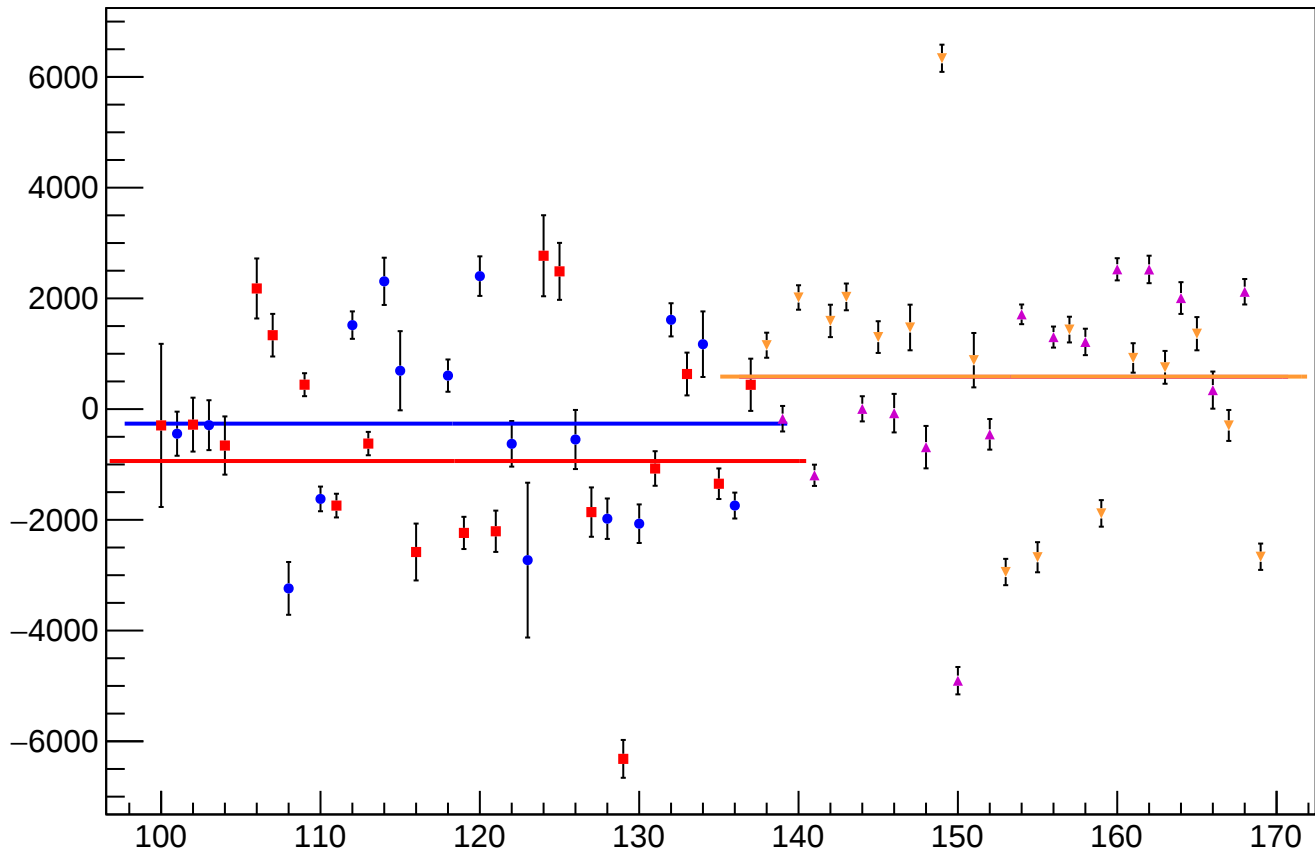
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 195.269+/-0.034 χ^2/NDF : 1887419.9/31

Out: 203.727+/-0.034 χ^2/NDF : 2319757.6/35

All: 199.475+/-0.024 χ^2/NDF : 4238501.2/67

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 587.322+/-64.318 χ^2/NDF :1343.8/16

Right Out: -937.678+/-78.434 χ^2/NDF : 521.9/18

Left In: 582.575+/-61.120 χ^2/NDF :910.2/14

Left: 584.828+/-44.306 χ^2/NDF : 2254.0/31

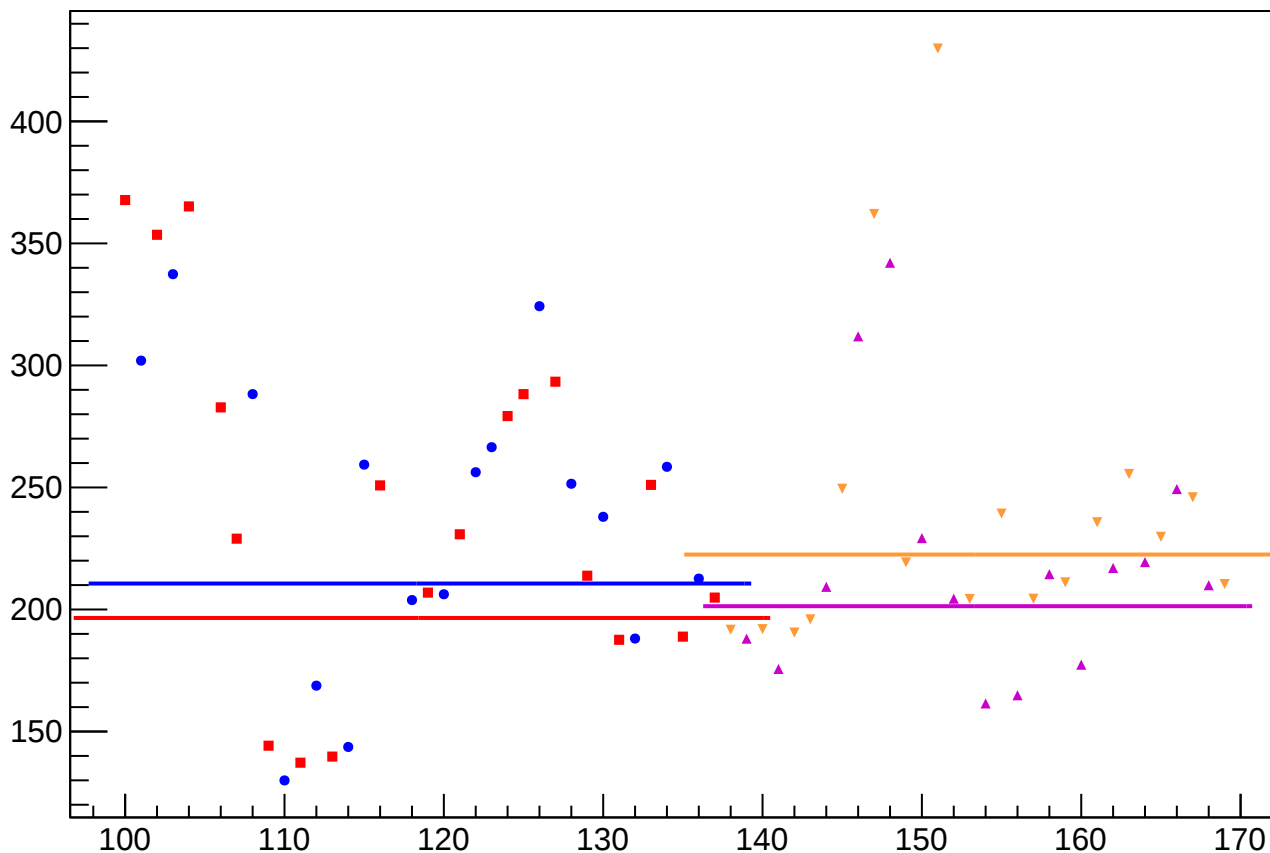
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 296.538+/-49.709 χ^2/NDF :1343.6/31

Out: -25.843+/-49.735 χ^2/NDF :2091.8/35

All: 135.430+/-35.159 χ^2/NDF : 3456.4/67

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 222.518+/-0.045 χ^2/NDF :812808.3/16

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: 211.395+/-0.031 χ^2/NDF : 1737470.4/31

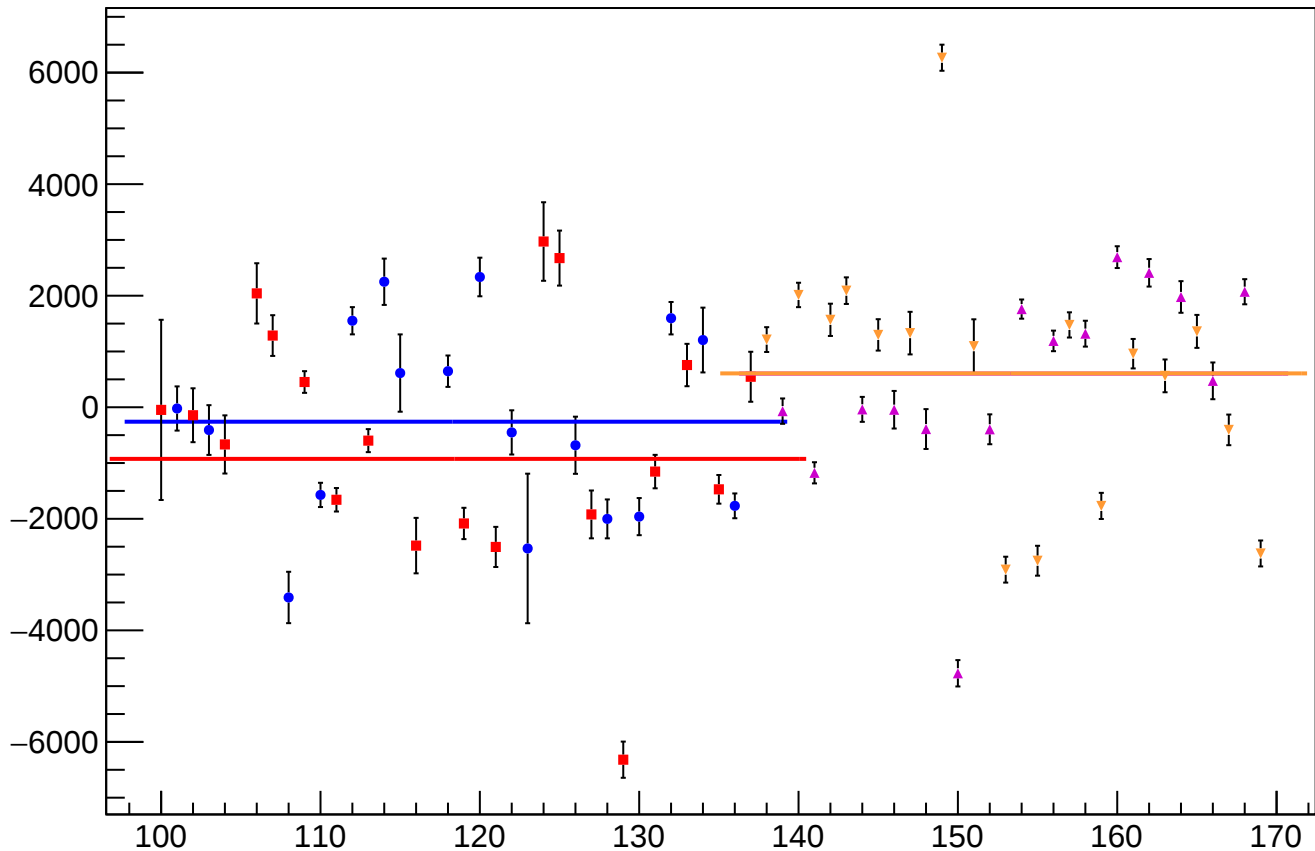
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 204.494+/-0.035 χ^2/NDF :1702230.7/31

Out: 212.068+/-0.035 χ^2/NDF :2149205.2/35

All: 208.279+/-0.025 χ^2/NDF : 3874642.7/67

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 606.993+/-62.987 χ^2/NDF :1413.4/16

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: 605.221+/-43.301 χ^2/NDF : 2358.9/31

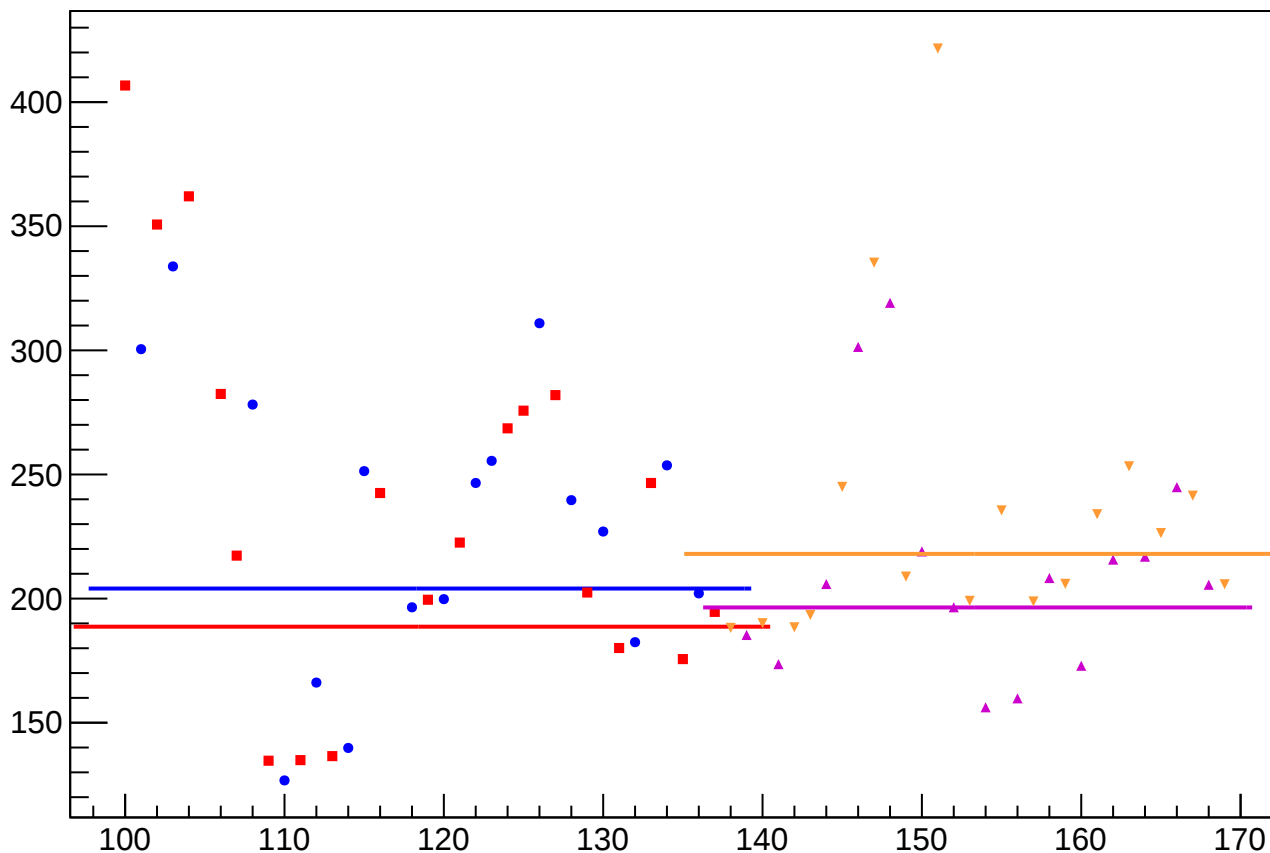
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 309.022+/-48.386 χ^2/NDF :1408.2/31

Out: -21.889+/-48.367 χ^2/NDF :2238.2/35

All: 143.501+/-34.207 χ^2/NDF : 3669.8/67

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051 ± 0.059 $\chi^2/\text{NDF}: 868423.0/16$

Left Out: 218.008 ± 0.045 $\chi^2/\text{NDF}: 777211.1/16$

Right Out: 188.681 ± 0.053 $\chi^2/\text{NDF}: 1251107.4/18$

Left In: 196.427 ± 0.042 $\chi^2/\text{NDF}: 776759.9/14$

Left: 206.626 ± 0.031 $\chi^2/\text{NDF}: 1677795.6/31$

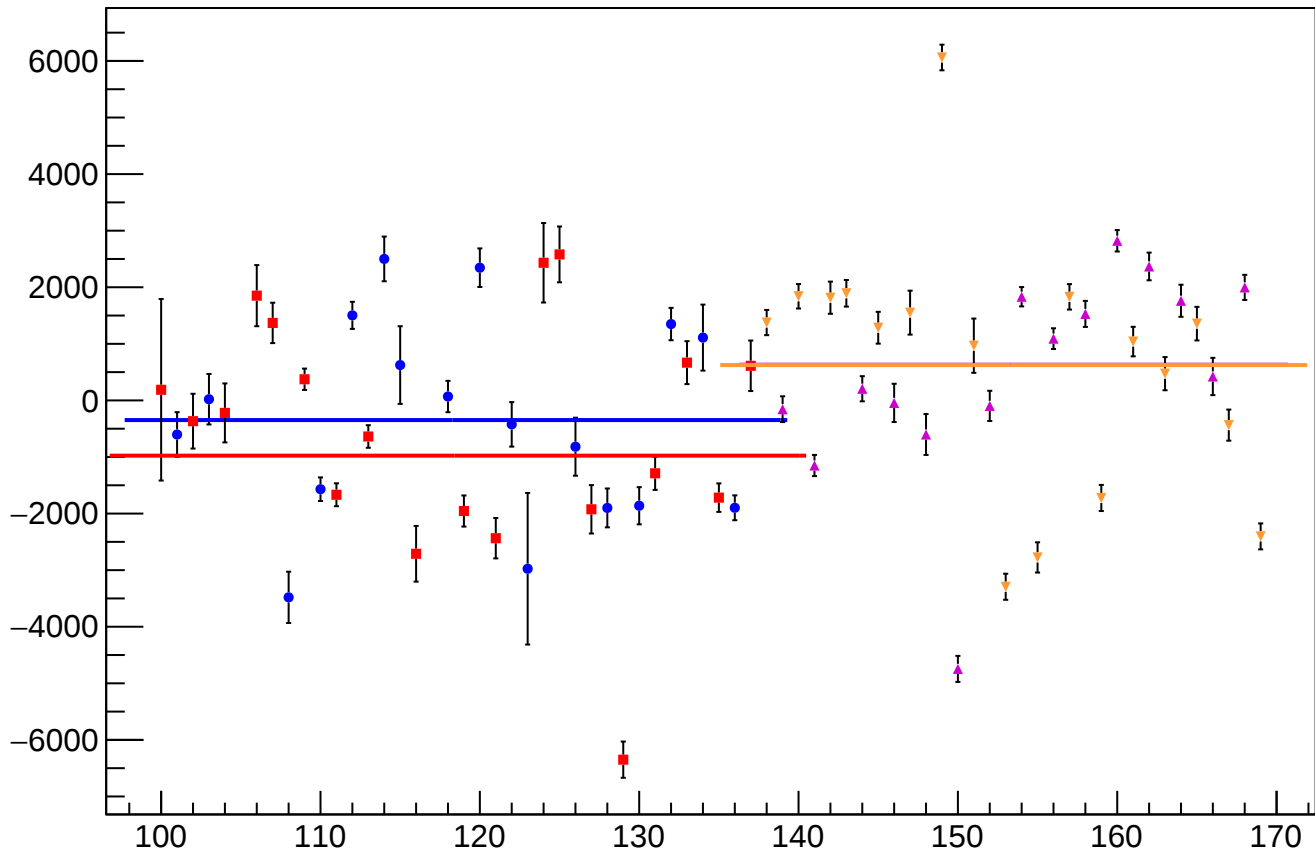
Right: 195.659 ± 0.039 $\chi^2/\text{NDF}: 2157160.3/35$

In: 199.031 ± 0.034 $\chi^2/\text{NDF}: 1656348.7/31$

Out: 205.973 ± 0.034 $\chi^2/\text{NDF}: 2206245.3/35$

All: 202.503 ± 0.024 $\chi^2/\text{NDF}: 3883191.1/67$

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240+/-81.318 χ^2/NDF : 399.1/16

Left Out: 624.779+/-62.439 χ^2/NDF :1459.4/16

Right Out: -976.286+/-73.889 χ^2/NDF : 585.7/18

Left In: 631.235+/-59.039 χ^2/NDF :984.4/14

Left: 628.188+/-42.899 χ^2/NDF : 2443.9/31

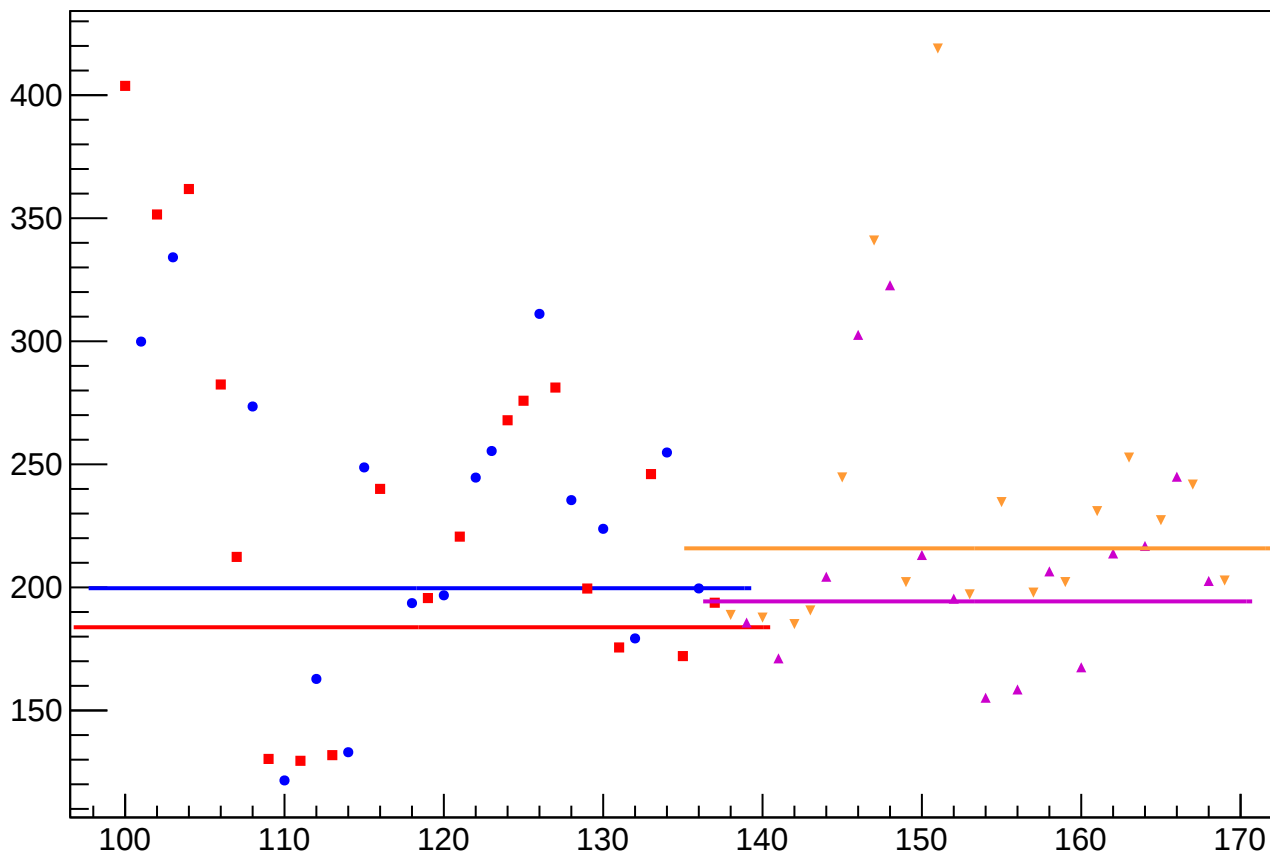
Right: -691.802+/-54.685 χ^2/NDF : 1017.5/35

In: 293.493+/-47.775 χ^2/NDF :1478.3/31

Out: -42.231+/-47.691 χ^2/NDF :2319.0/35

All: 125.337+/-33.753 χ^2/NDF : 3822.1/67

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 ± 0.058 $\chi^2/\text{NDF}: 943155.1/16$

Left Out: 215.867 ± 0.044 $\chi^2/\text{NDF}: 813374.9/16$

Right Out: 183.808 ± 0.052 $\chi^2/\text{NDF}: 1349625.1/18$

Left In: 194.310 ± 0.042 $\chi^2/\text{NDF}: 810778.3/14$

Left: 204.485 ± 0.030 $\chi^2/\text{NDF}: 1750011.4/31$

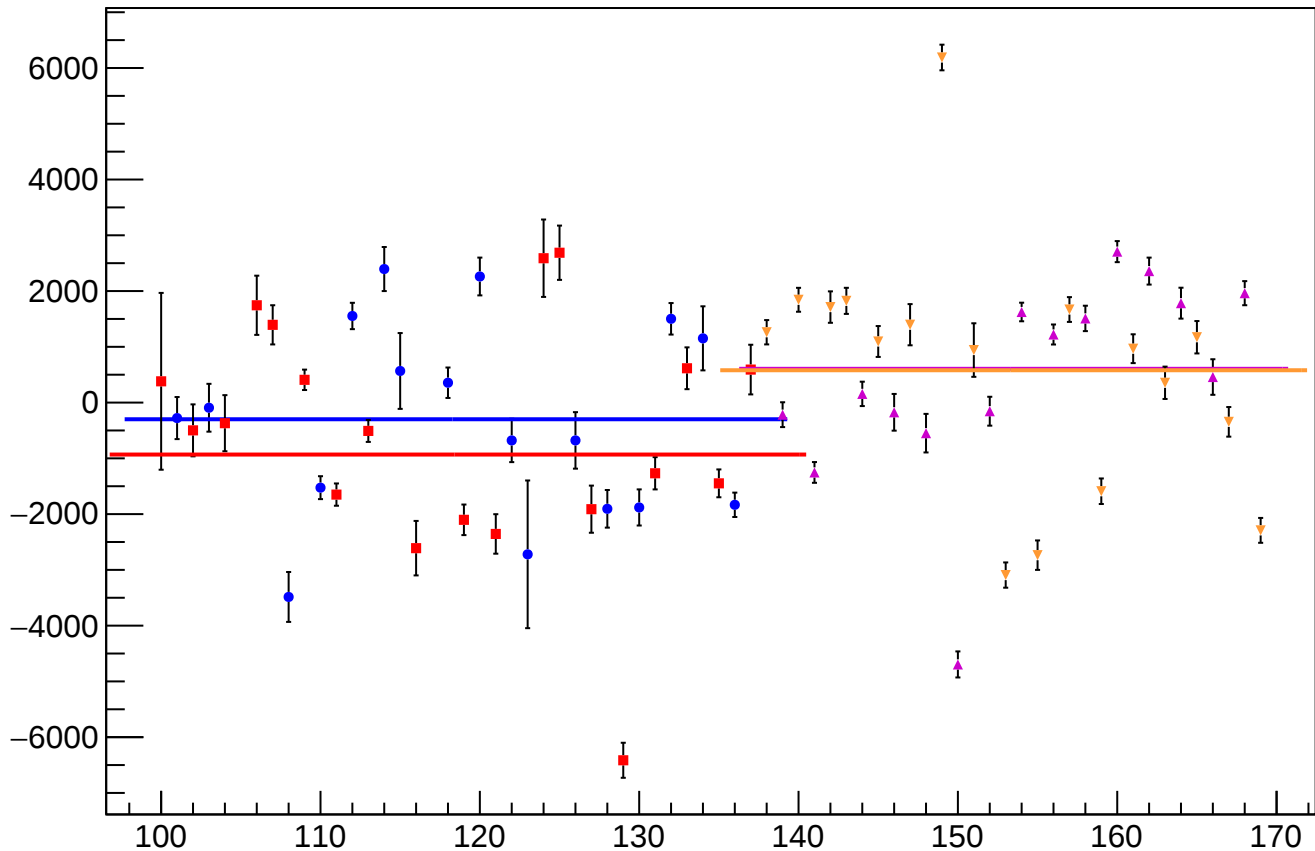
Right: 190.981 ± 0.039 $\chi^2/\text{NDF}: 2334457.4/35$

In: 196.160 ± 0.034 $\chi^2/\text{NDF}: 1759621.7/31$

Out: 202.511 ± 0.034 $\chi^2/\text{NDF}: 2382641.8/35$

All: 199.341 ± 0.024 $\chi^2/\text{NDF}: 4159967.1/67$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 579.947 ± 61.627 $\chi^2/\text{NDF}: 1411.5/16$

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: 593.523 ± 42.267 $\chi^2/\text{NDF}: 2368.2/31$

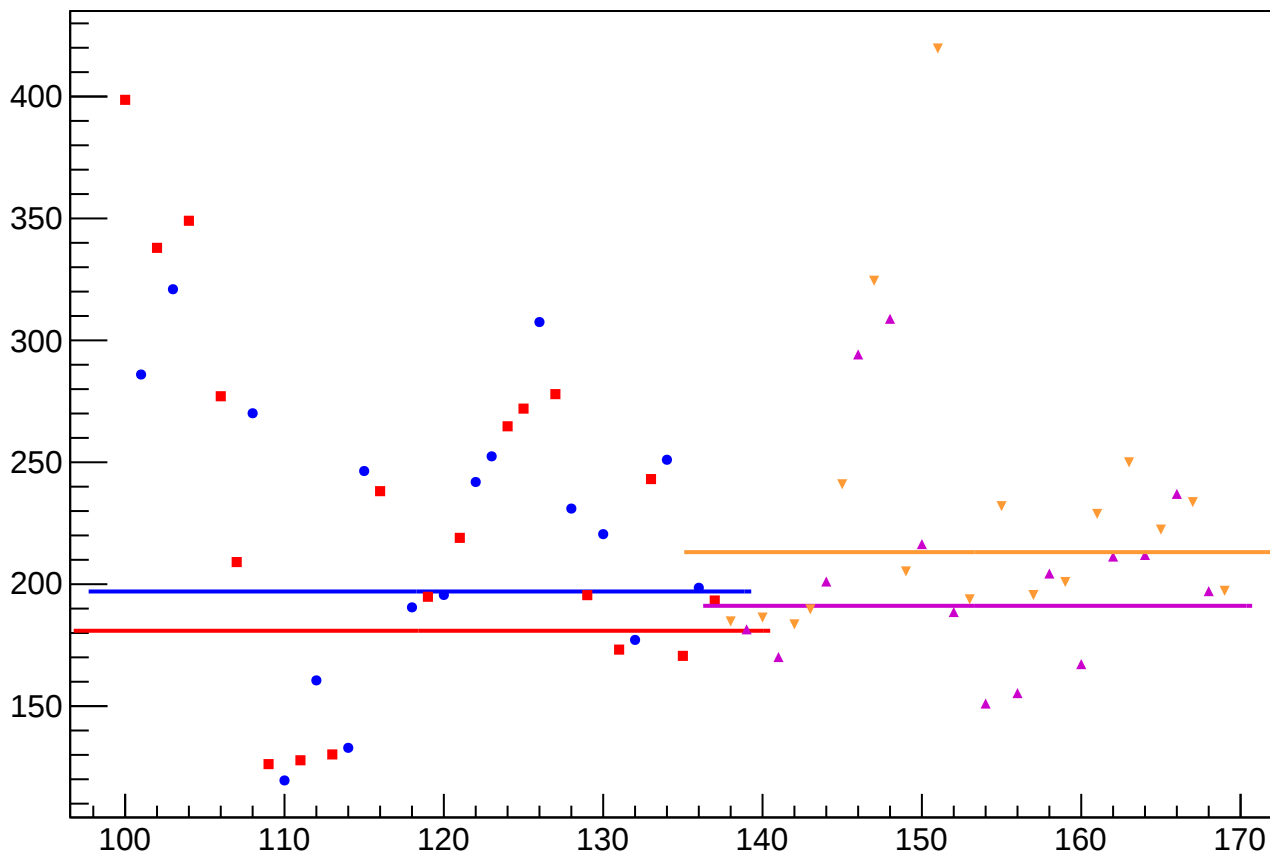
Right: -646.004 ± 53.873 $\chi^2/\text{NDF}: 1055.6/35$

In: 294.201 ± 47.033 $\chi^2/\text{NDF}: 1446.7/31$

Out: -51.650 ± 47.023 $\chi^2/\text{NDF}: 2277.7/35$

All: 121.241 ± 33.254 $\chi^2/\text{NDF}: 3751.4/67$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 213.150+/-0.044 χ^2/NDF : 788362.9/16

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: 201.491+/-0.030 χ^2/NDF : 1710788.4/31

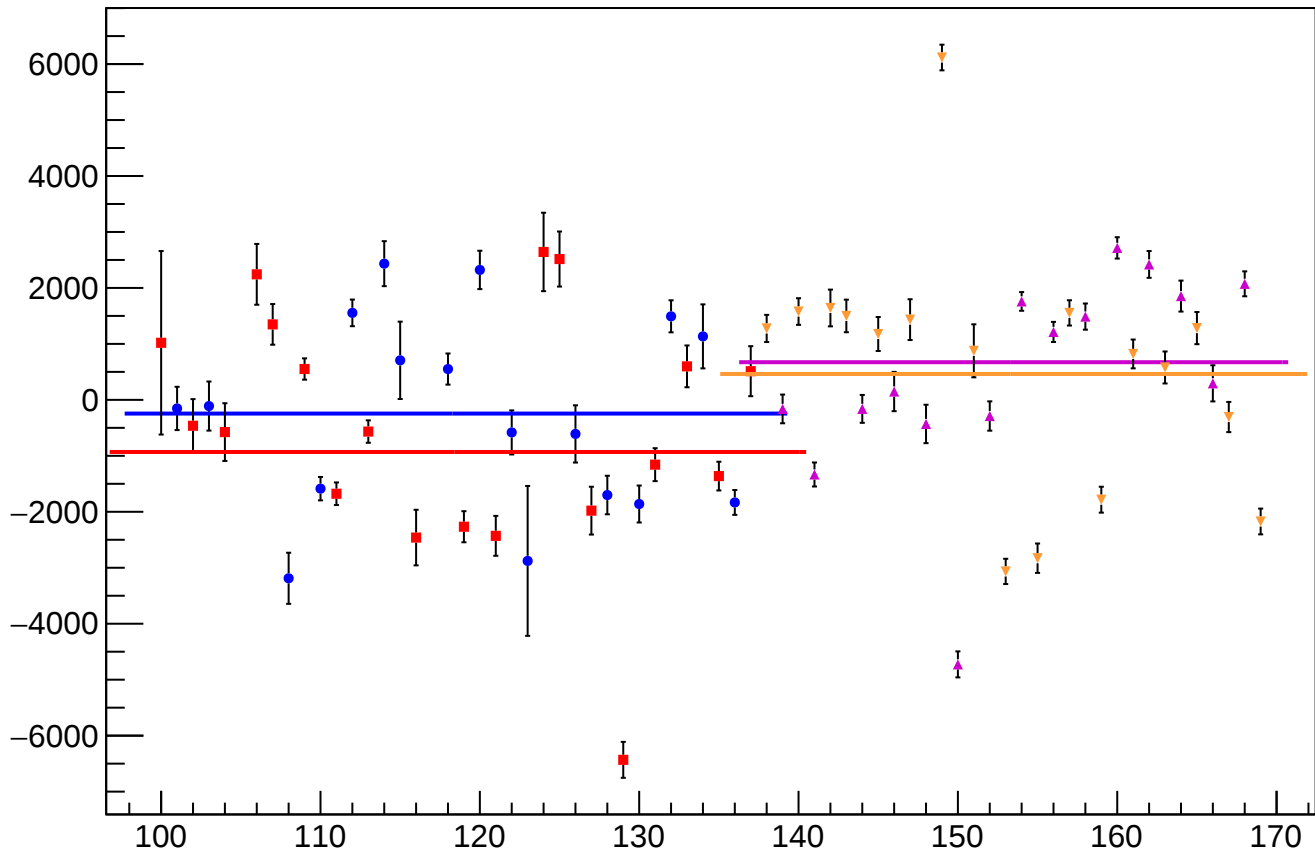
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 193.159+/-0.033 χ^2/NDF : 1706248.0/31

Out: 199.679+/-0.033 χ^2/NDF : 2362784.5/35

All: 196.420+/-0.024 χ^2/NDF : 4088250.8/67

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925±/81.395 χ^2/NDF : 391.4/16

Left Out: 462.557±/64.278 χ^2/NDF :1348.2/16

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: 574.550±/43.949 χ^2/NDF : 2319.9/31

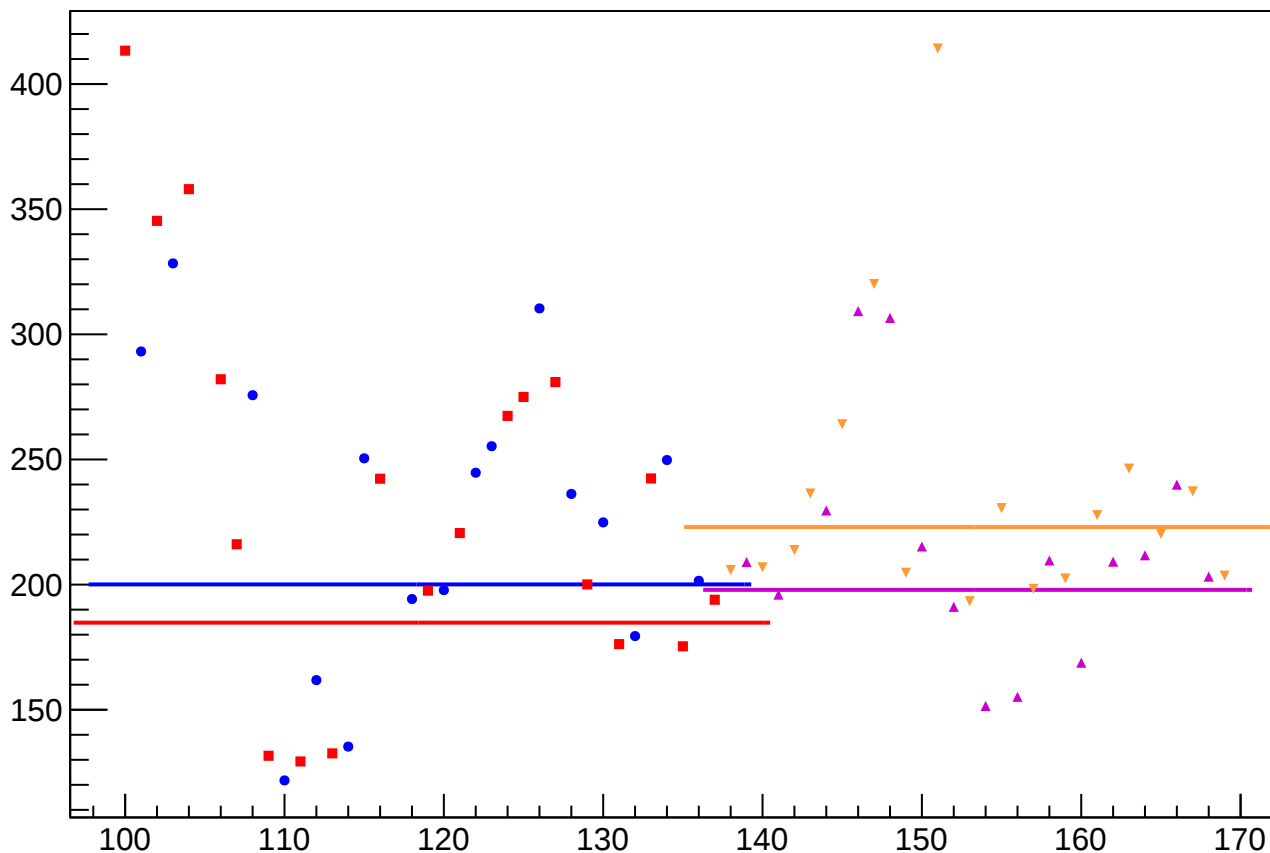
Right: -619.742±/54.837 χ^2/NDF : 1040.0/35

In: 348.159±/48.414 χ^2/NDF :1439.5/31

Out: -134.950±/48.585 χ^2/NDF :2159.5/35

All: 107.457±/34.294 χ^2/NDF : 3648.6/67

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 222.980+/-0.045 χ^2/NDF : 651937.2/16

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 197.906+/-0.043 χ^2/NDF : 814670.2/14

Left: 209.628+/-0.031 χ^2/NDF : 1628673.2/31

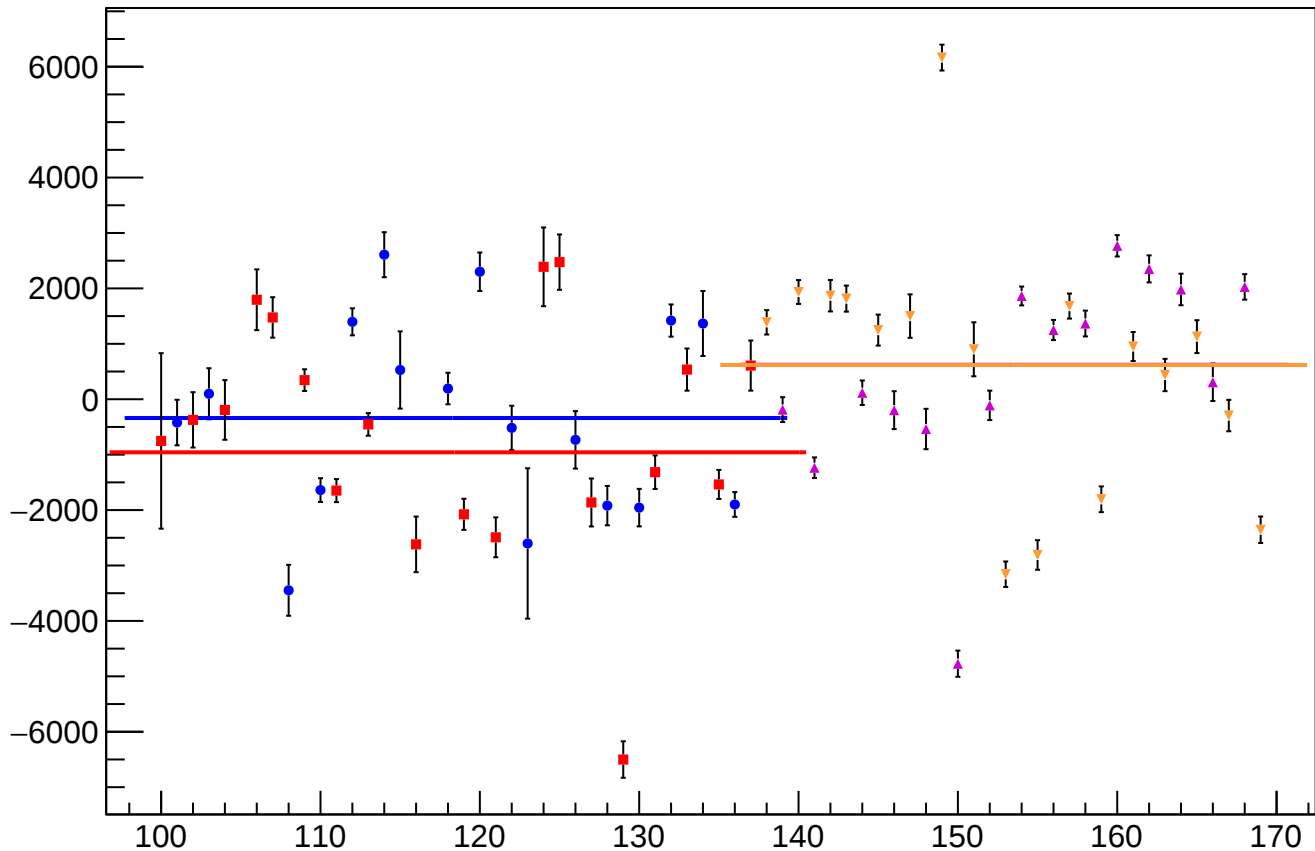
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 198.674+/-0.034 χ^2/NDF : 1733900.2/31

Out: 206.616+/-0.034 χ^2/NDF : 2272577.0/35

All: 202.631+/-0.024 χ^2/NDF : 4033291.4/67

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966±/83.123 χ^2/NDF : 389.5/16

Left Out: 617.443±/62.815 χ^2/NDF :1406.7/16

Right Out: -957.615±/75.749 χ^2/NDF : 570.3/18

Left In: 622.820±/59.324 χ^2/NDF :972.2/14

Left: 620.285±/43.130 χ^2/NDF : 2379.0/31

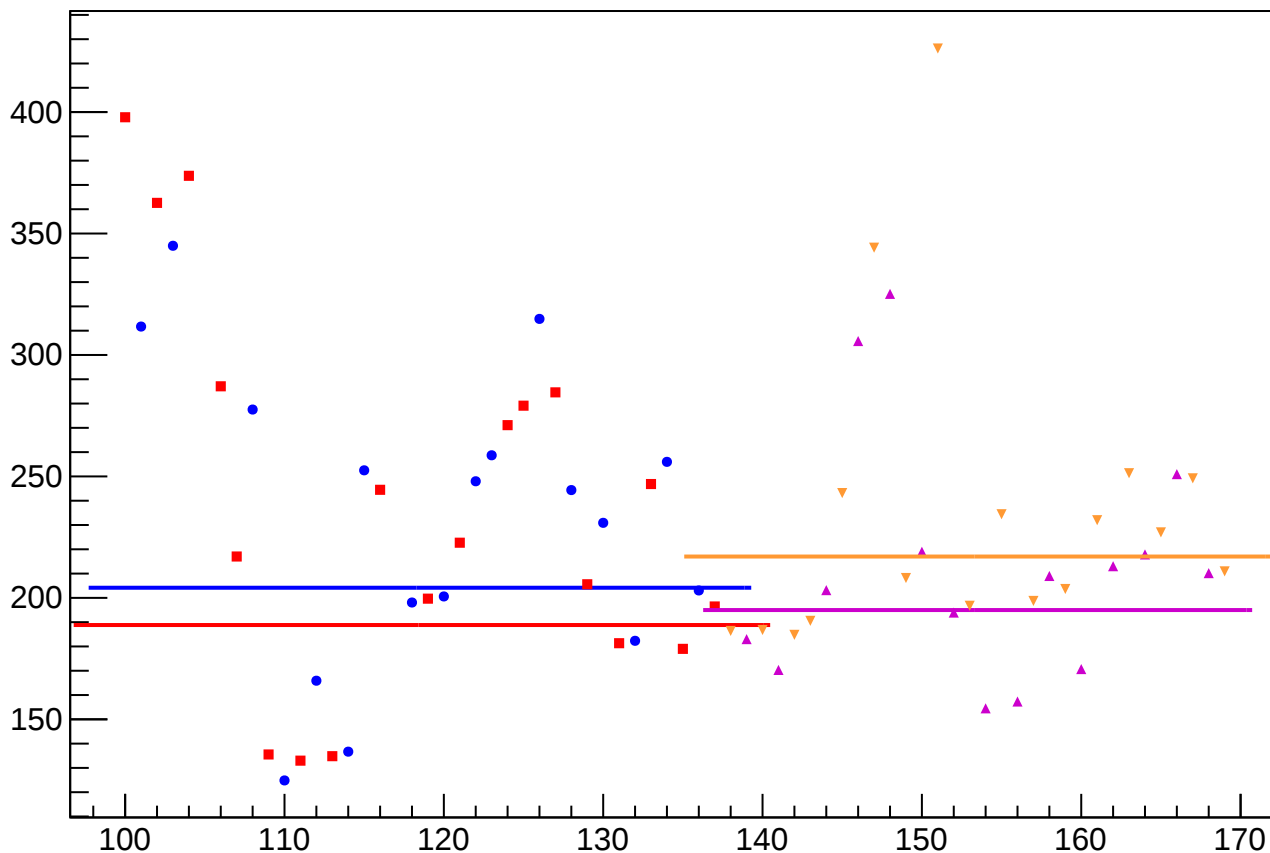
Right: -676.943±/55.988 χ^2/NDF : 990.0/35

In: 298.252±/48.287 χ^2/NDF :1450.4/31

Out: -24.343±/48.353 χ^2/NDF :2233.2/35

All: 137.173±/34.167 χ^2/NDF : 3705.9/67

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 217.020+/-0.044 χ^2/NDF : 836044.8/16

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 194.988+/-0.042 χ^2/NDF : 854714.1/14

Left: 205.374+/-0.030 χ^2/NDF : 1820806.8/31

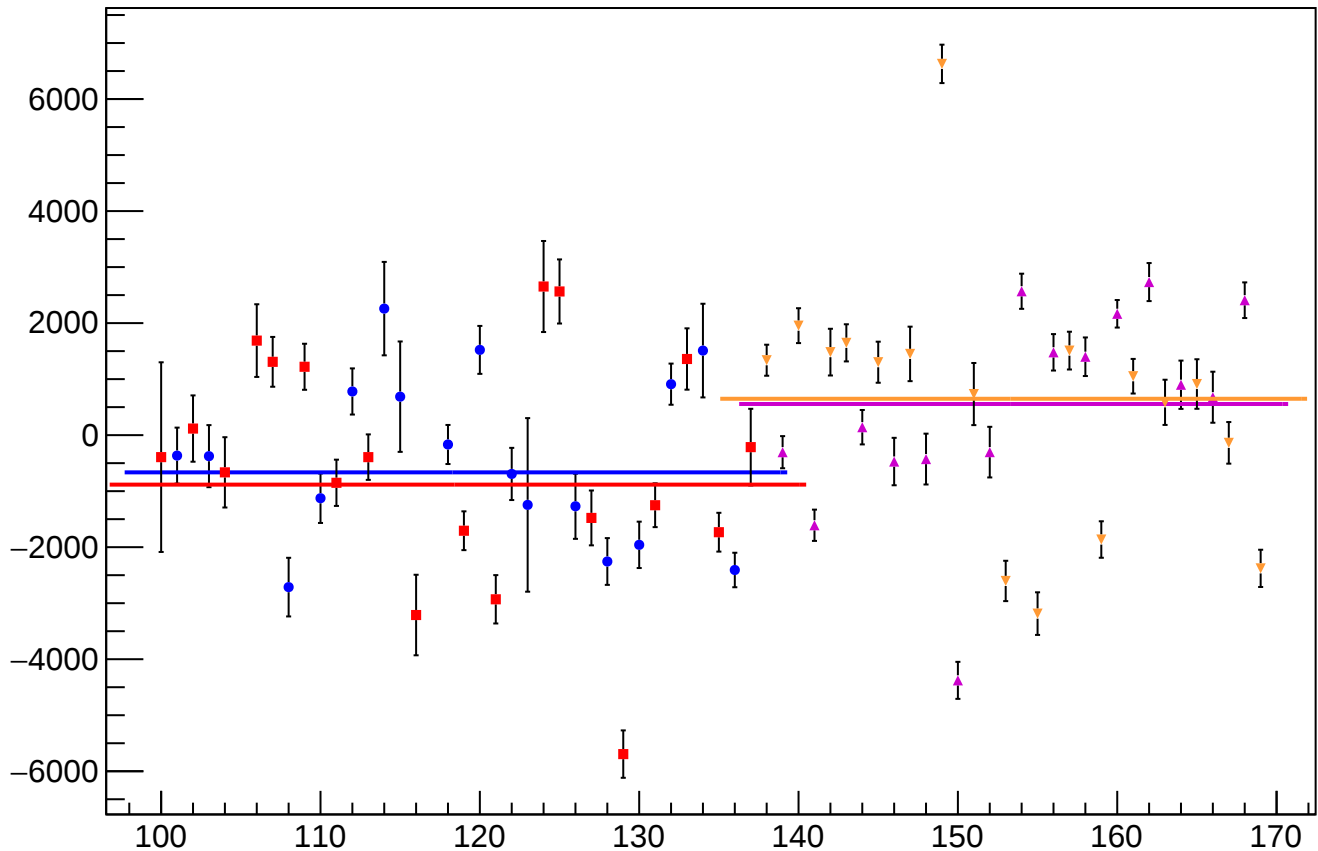
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 198.088+/-0.034 χ^2/NDF : 1818340.3/31

Out: 205.530+/-0.034 χ^2/NDF : 2315164.8/35

All: 201.804+/-0.024 χ^2/NDF : 4157222.5/67

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 649.462 ± 86.881 $\chi^2/\text{NDF}: 685.4/16$

Right Out: -883.255 ± 110.875 $\chi^2/\text{NDF}: 320.1/18$

Left In: 555.983 ± 86.581 $\chi^2/\text{NDF}: 481.8/14$

Left: 602.561 ± 61.328 $\chi^2/\text{NDF}: 1167.7/31$

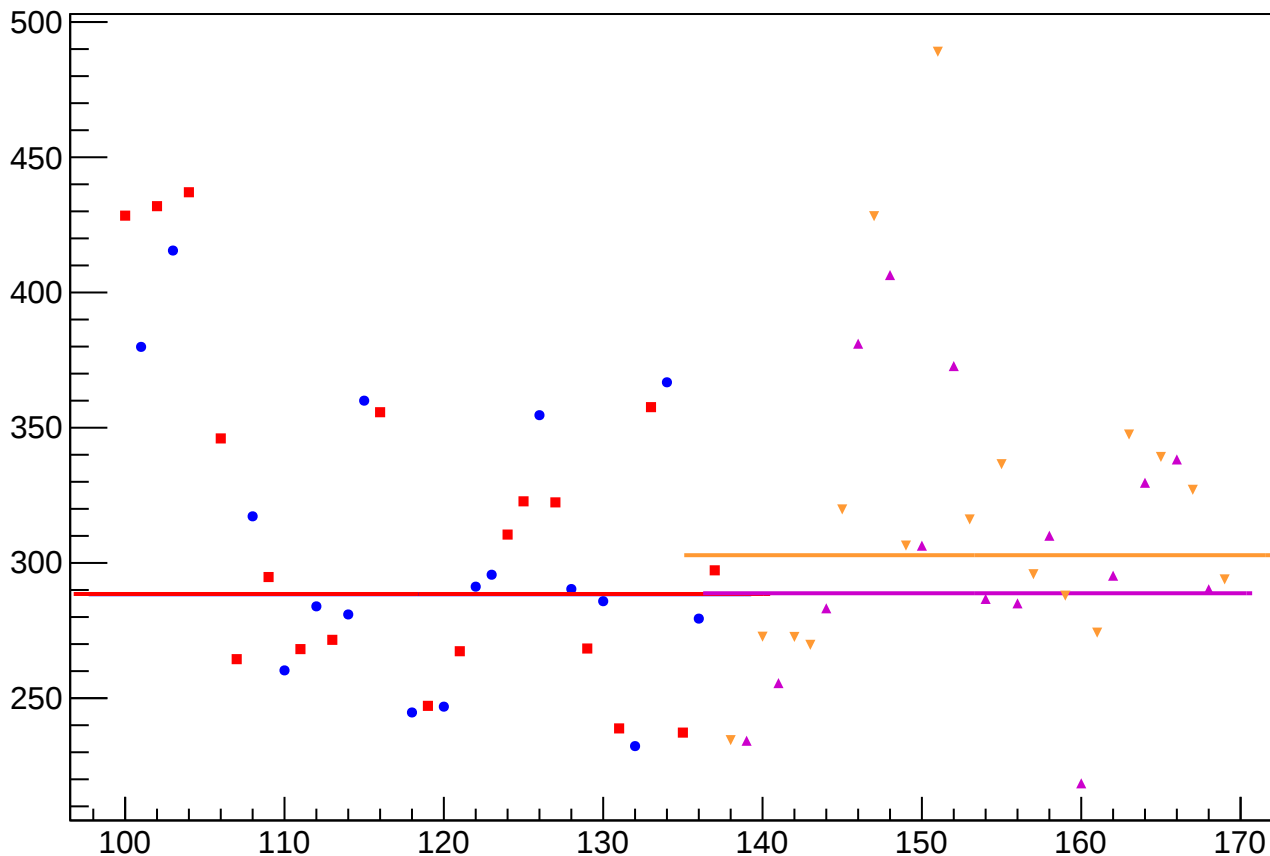
Right: -776.811 ± 79.465 $\chi^2/\text{NDF}: 476.3/35$

In: 109.304 ± 68.938 $\chi^2/\text{NDF}: 708.8/31$

Out: 66.366 ± 68.387 $\chi^2/\text{NDF}: 1123.9/35$

All: 87.662 ± 48.551 $\chi^2/\text{NDF}: 1832.9/67$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 302.864+/-0.061 χ^2/NDF : 622275.4/16

Right Out: 288.522+/-0.078 χ^2/NDF : 455410.1/18

Left In: 288.791+/-0.061 χ^2/NDF : 619295.2/14

Left: 295.803+/-0.043 χ^2/NDF : 1267896.4/31

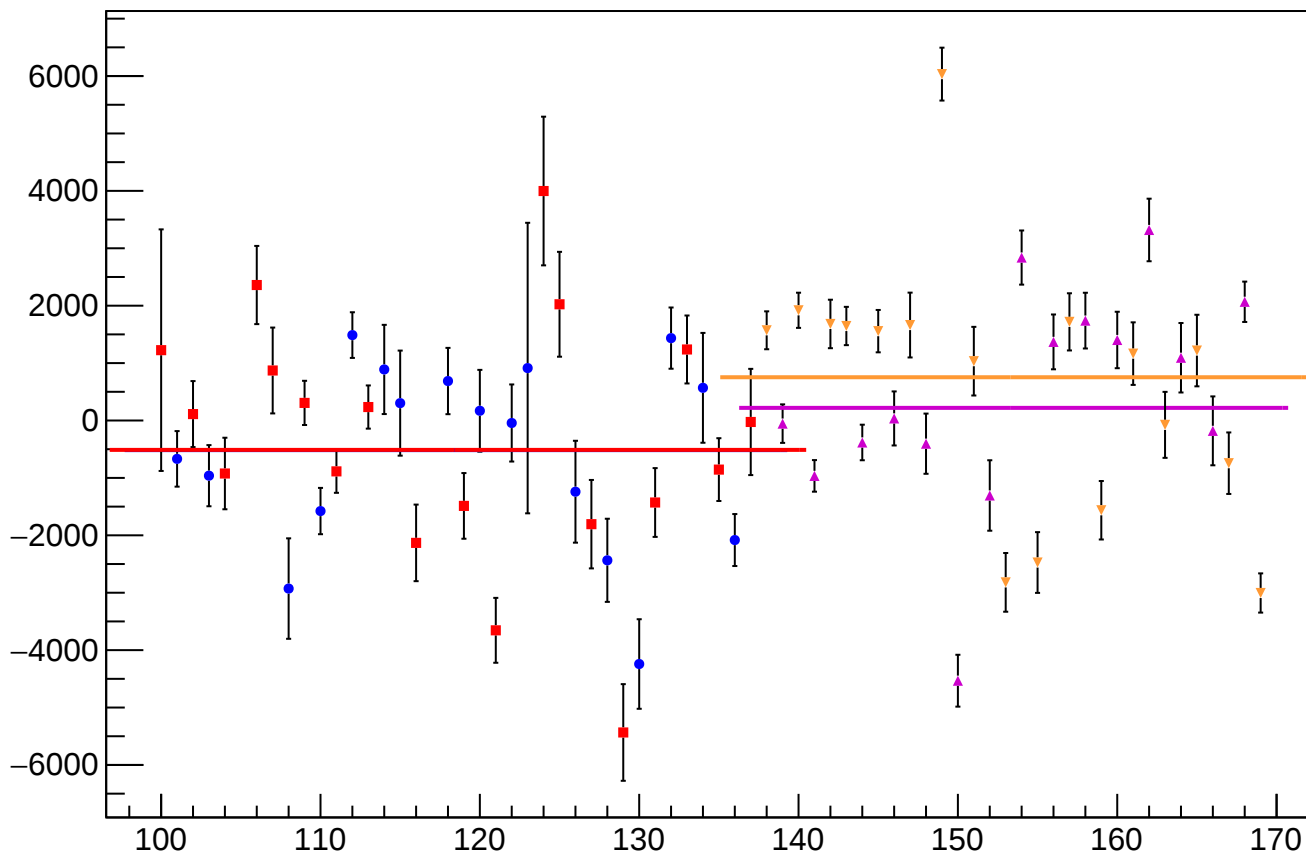
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 288.658+/-0.049 χ^2/NDF : 959128.1/31

Out: 297.408+/-0.048 χ^2/NDF : 1098418.8/35

All: 293.068+/-0.034 χ^2/NDF : 2073783.4/67

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 753.465 ± 106.166 $\chi^2/\text{NDF}: 414.1/16$

Right Out: -511.851 ± 135.798 $\chi^2/\text{NDF}: 141.3/18$

Left In: 220.153 ± 110.121 $\chi^2/\text{NDF}: 256.2/14$

Left: 496.560 ± 76.431 $\chi^2/\text{NDF}: 682.4/31$

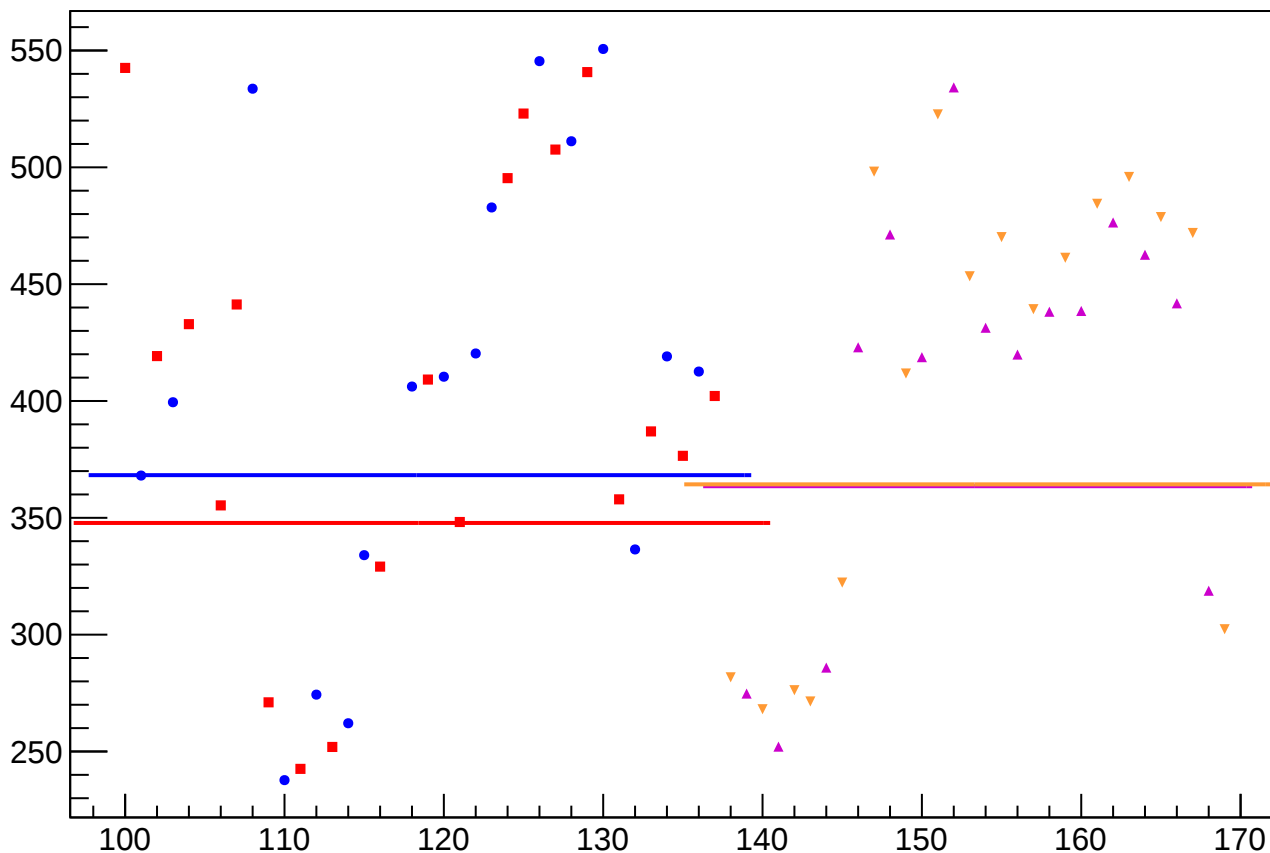
Right: -513.708 ± 99.851 $\chi^2/\text{NDF}: 249.3/35$

In: -43.677 ± 88.204 $\chi^2/\text{NDF}: 380.2/31$

Out: 273.478 ± 83.639 $\chi^2/\text{NDF}: 609.2/35$

All: 123.320 ± 60.692 $\chi^2/\text{NDF}: 996.2/67$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264 $\pm$ 0.104 χ^2 /NDF: 770116.6/16

Left Out: 364.328 $\pm$ 0.075 χ^2 /NDF: 1538839.8/16

Right Out: 347.802 $\pm$ 0.096 χ^2 /NDF: 821862.5/18

Left In: 363.530 $\pm$ 0.078 χ^2 /NDF: 1263598.6/14

Left: 363.944 $\pm$ 0.054 χ^2 /NDF: 2802492.8/31

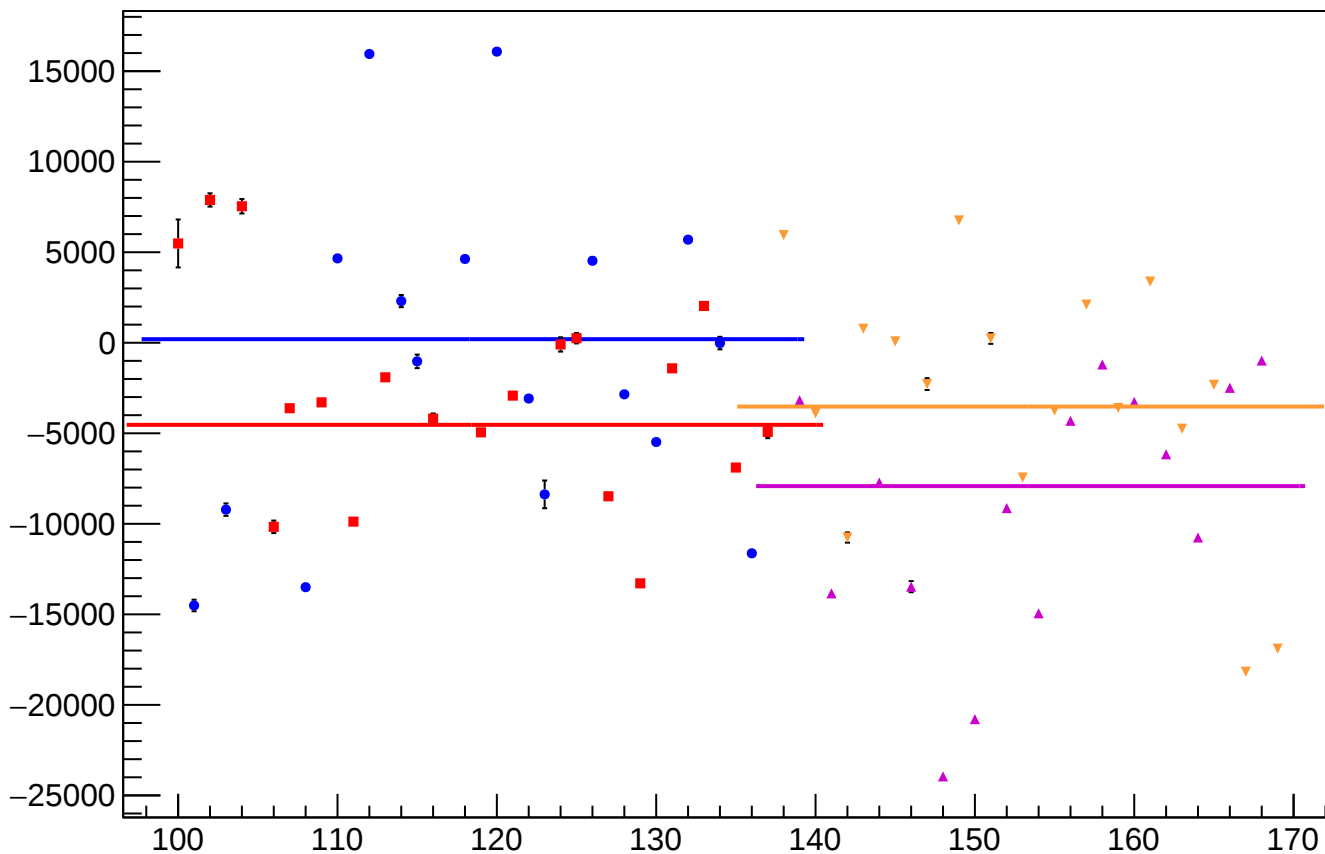
Right: 357.201 $\pm$ 0.071 χ^2 /NDF: 1612837.5/35

In: 365.227 $\pm$ 0.062 χ^2 /NDF: 2035040.0/31

Out: 358.059 $\pm$ 0.059 χ^2 /NDF: 2379085.2/35

All: 361.453 $\pm$ 0.043 χ^2 /NDF: 4421080.1/67

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -3522.852+/-48.596 χ^2/NDF :19801.7/16

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: -5606.473+/-35.240 χ^2/NDF : 40141.3/31

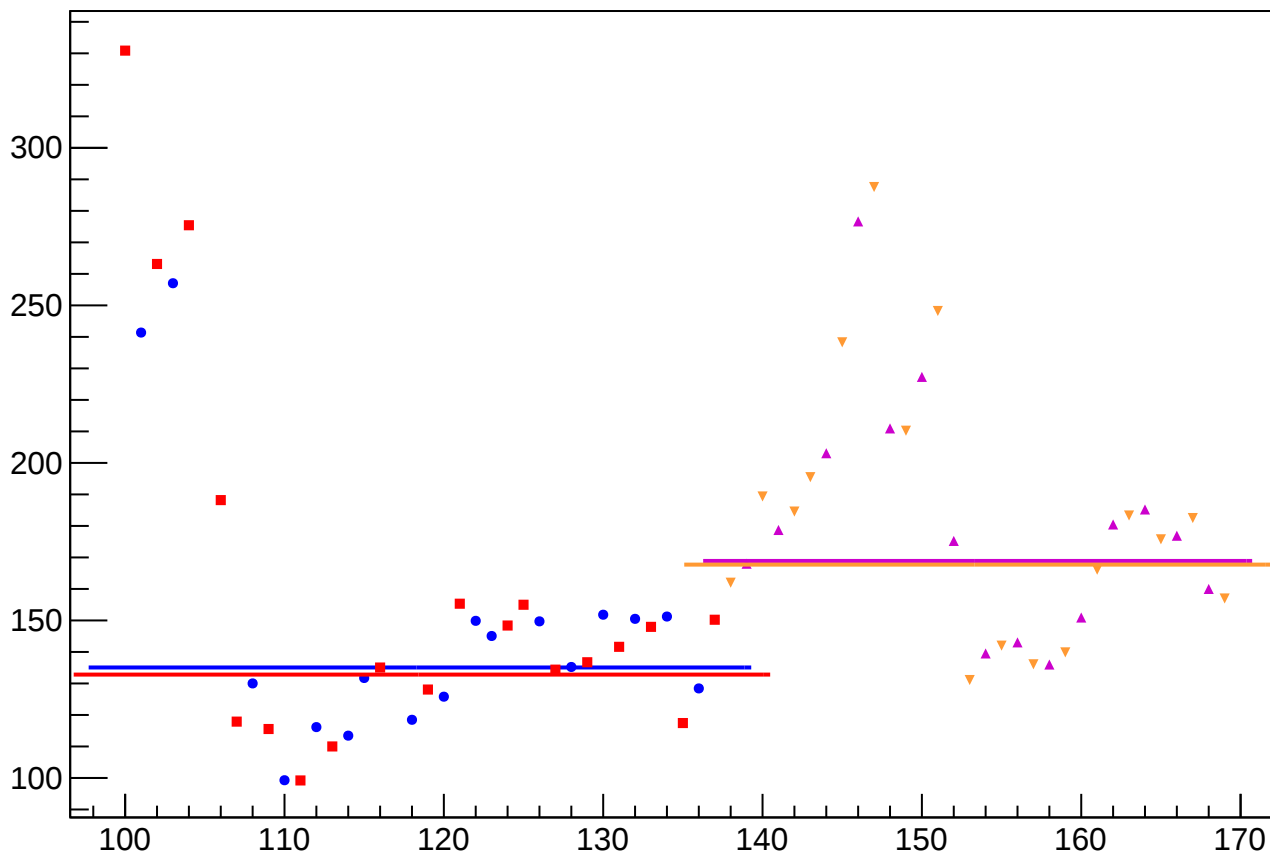
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4137.116+/-37.402 χ^2/NDF :58832.2/31

Out: -3989.897+/-35.651 χ^2/NDF :27478.9/35

All: -4059.979+/-25.806 χ^2/NDF : 86319.3/67

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 167.721 $\pm$ 0.034 χ^2 /NDF:1020776.9/16

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: 168.273 $\pm$ 0.025 χ^2 /NDF: 1758033.7/31

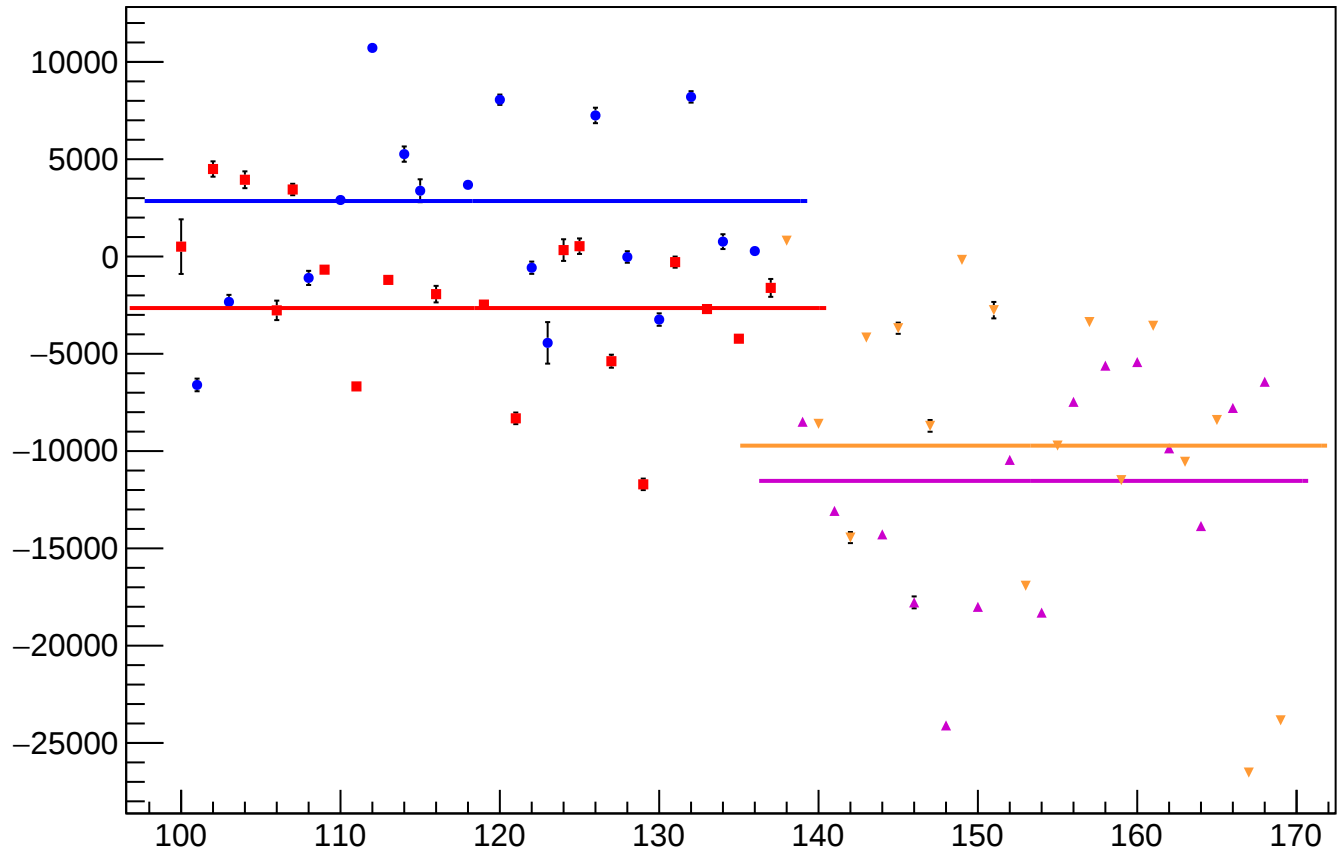
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.133 $\pm$ 0.026 χ^2 /NDF:1802158.6/31

Out: 151.602 $\pm$ 0.025 χ^2 /NDF:2328451.7/35

All: 152.331 $\pm$ 0.018 χ^2 /NDF: 4132366.3/67

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 $\pm$ 70.753 χ^2 /NDF: 4178.1/16

Left Out: -9720.201 $\pm$ 55.084 χ^2 /NDF:20854.8/16

Right Out: -2649.142 $\pm$ 65.731 χ^2 /NDF: 3175.7/18

Left In: -11532.072 $\pm$ 51.711 χ^2 /NDF:10481.7/14

Left: -10683.301 $\pm$ 37.701 χ^2 /NDF: 31911.6/31

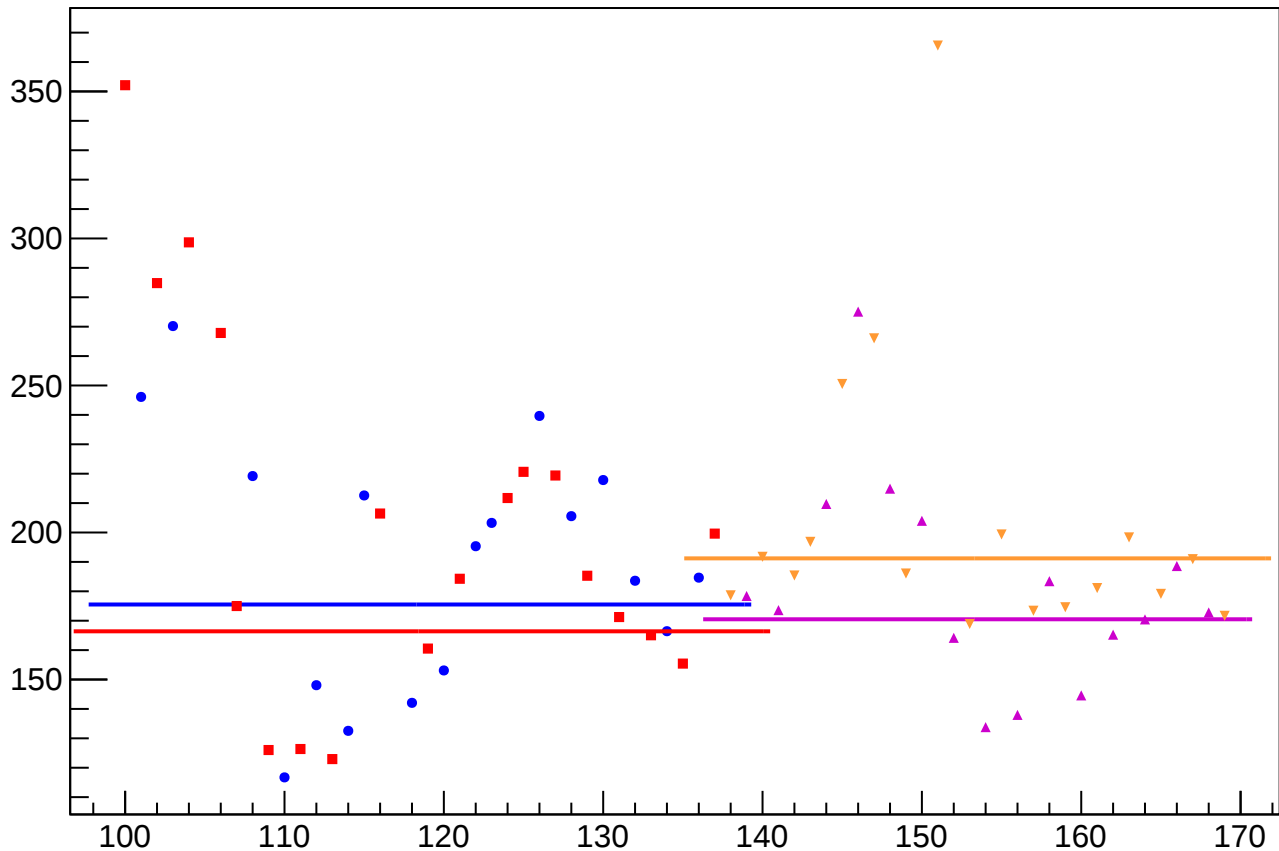
Right: -100.998 $\pm$ 48.156 χ^2 /NDF: 10597.9/35

In: -6524.040 $\pm$ 41.749 χ^2 /NDF:41597.8/31

Out: -6803.014 $\pm$ 42.219 χ^2 /NDF:30828.7/35

All: -6661.966 $\pm$ 29.686 χ^2 /NDF: 72448.6/67

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 191.200+/-0.039 χ^2/NDF : 650099.6/16

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: 180.190+/-0.027 χ^2/NDF : 1487030.8/31

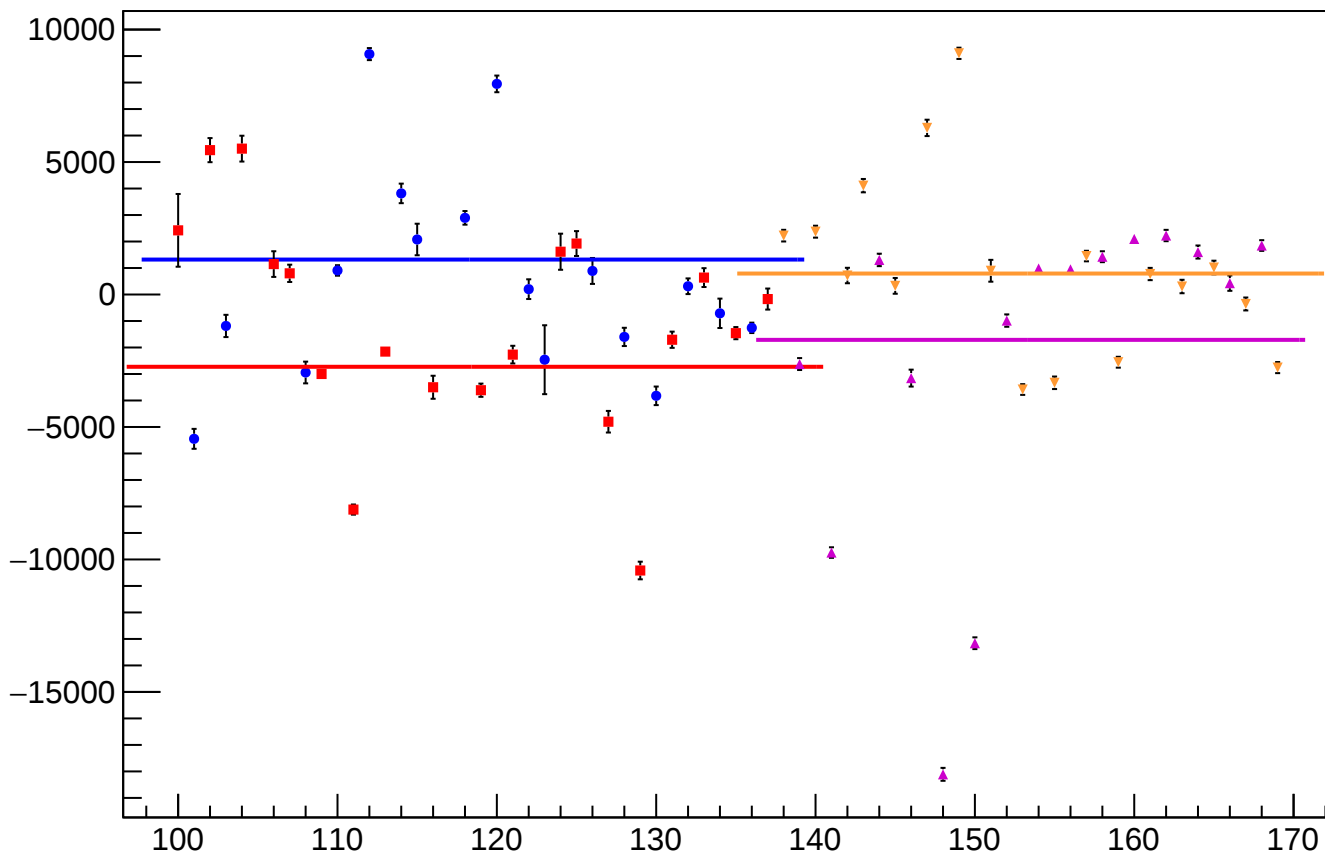
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.238+/-0.030 χ^2/NDF : 1382840.6/31

Out: 180.966+/-0.030 χ^2/NDF : 1746981.7/35

All: 176.553+/-0.021 χ^2/NDF : 3173039.5/67

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 791.421+/-58.011 χ^2/NDF :3465.2/16

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: -547.816+/-39.558 χ^2/NDF : 15672.7/31

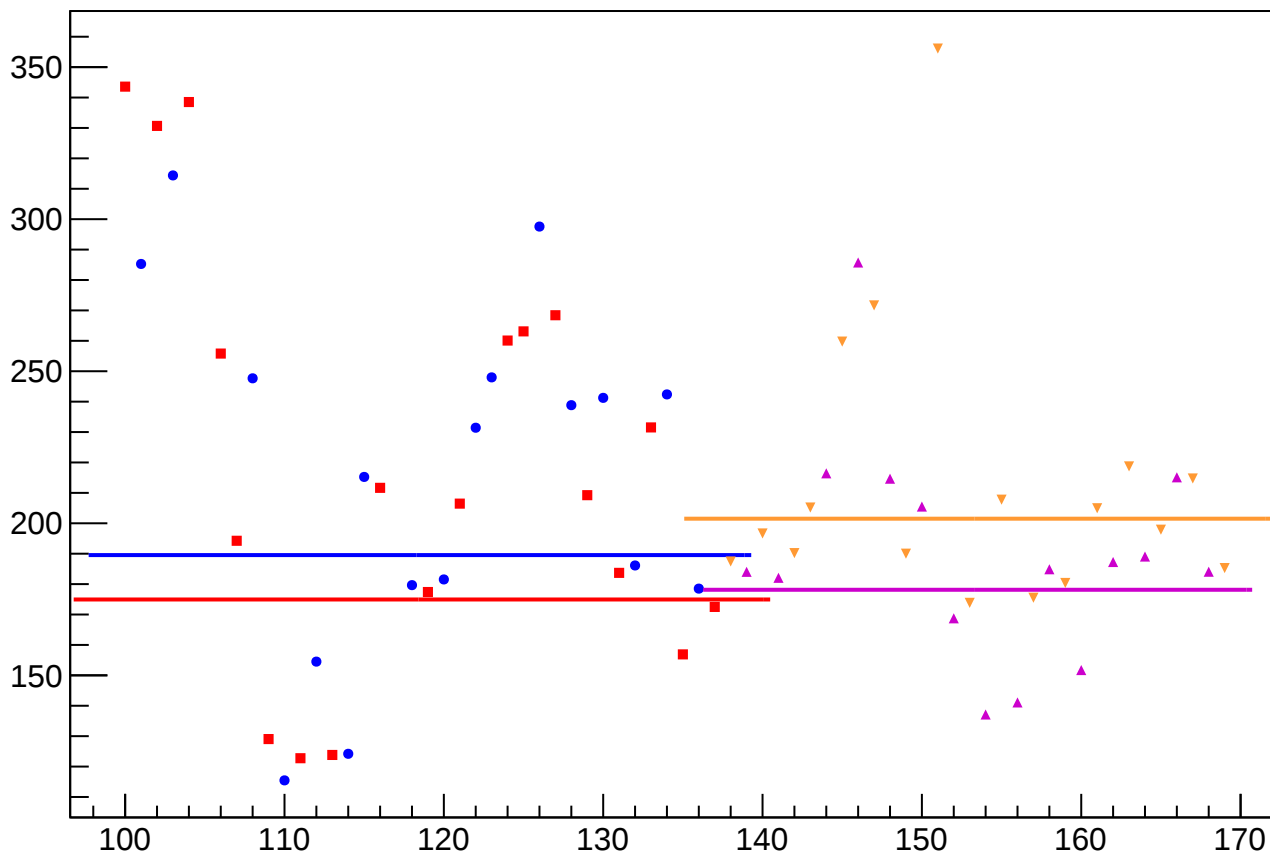
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -713.101+/-44.284 χ^2/NDF :14913.2/31

Out: -640.745+/-44.674 χ^2/NDF :7458.8/35

All: -677.240+/-31.450 χ^2/NDF : 22373.3/67

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.512 $\pm$ 0.041 χ^2 /NDF: 600944.7/16

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 178.137 $\pm$ 0.038 χ^2 /NDF: 702448.8/14

Left: 189.006 $\pm$ 0.028 χ^2 /NDF: 1477121.0/31

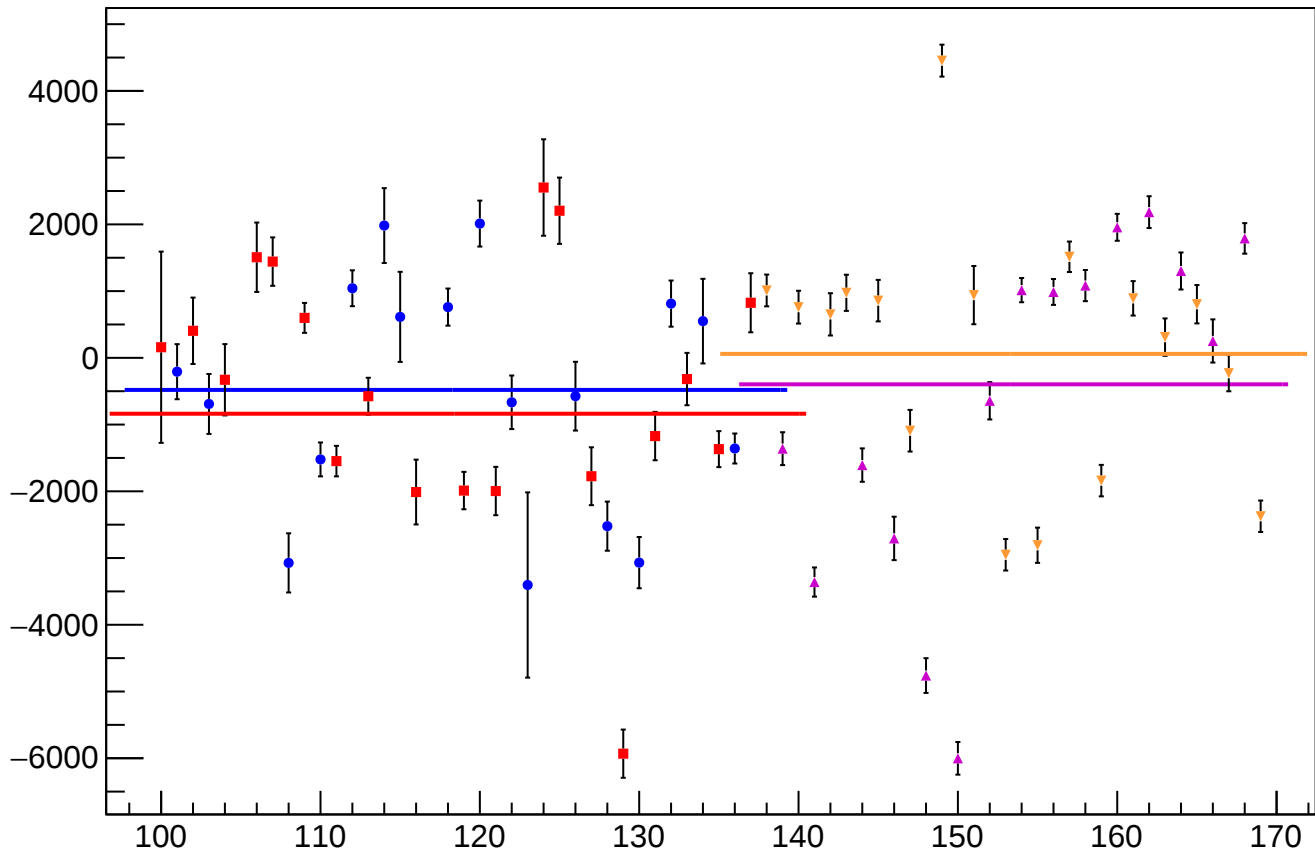
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 181.896 $\pm$ 0.031 χ^2 /NDF: 1712515.0/31

Out: 190.700 $\pm$ 0.032 χ^2 /NDF: 2068768.2/35

All: 186.259 $\pm$ 0.022 χ^2 /NDF: 3820460.1/67

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 59.010 $\pm$ 64.268 χ^2/NDF : 912.7/16

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -396.715 $\pm$ 61.304 χ^2/NDF : 1615.2/14

Left: -179.603 $\pm$ 44.359 χ^2/NDF : 2554.2/31

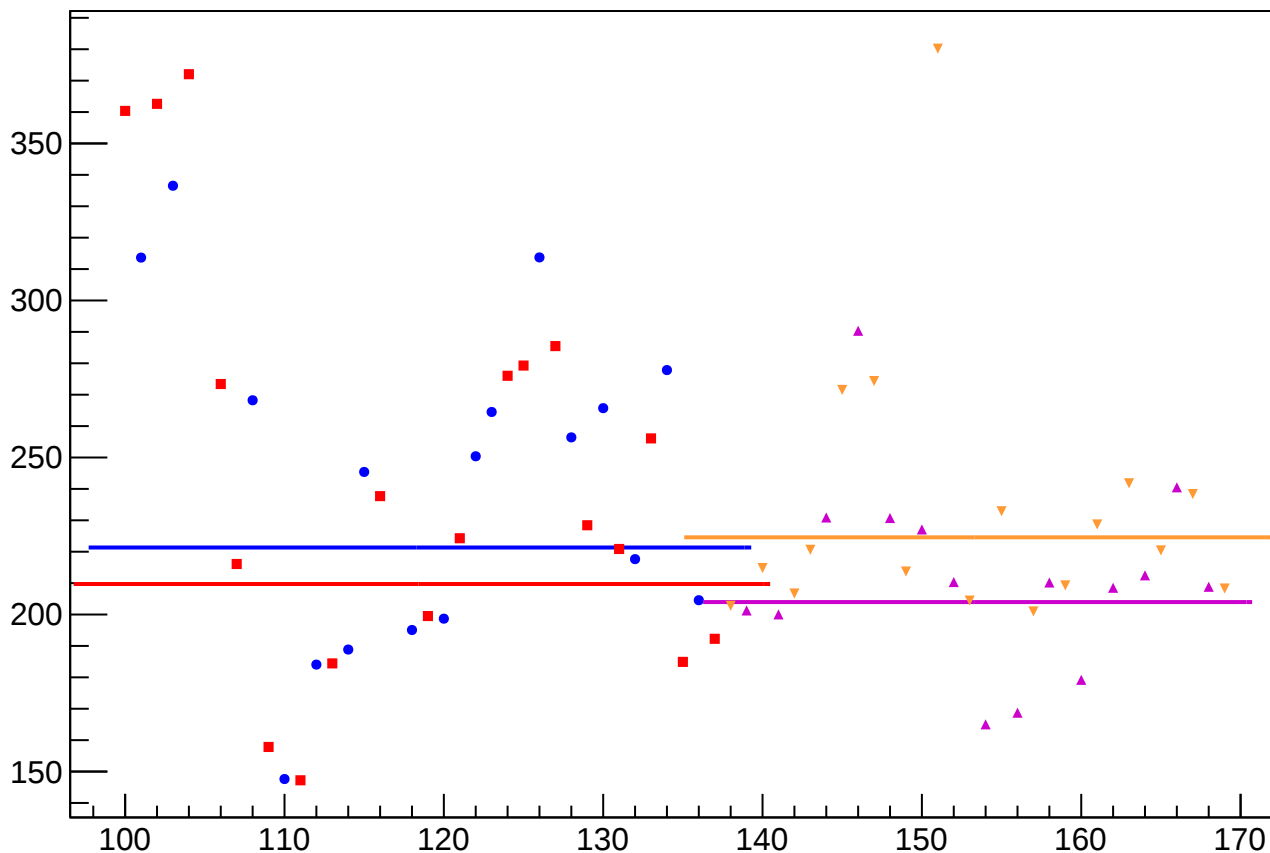
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -423.850 $\pm$ 50.420 χ^2/NDF : 1906.5/31

Out: -280.862 $\pm$ 50.640 χ^2/NDF : 1421.7/35

All: -352.667 $\pm$ 35.730 χ^2/NDF : 3332.2/67

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 224.576+/-0.045 χ^2/NDF : 451291.9/16

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: 213.785+/-0.031 χ^2/NDF : 982590.6/31

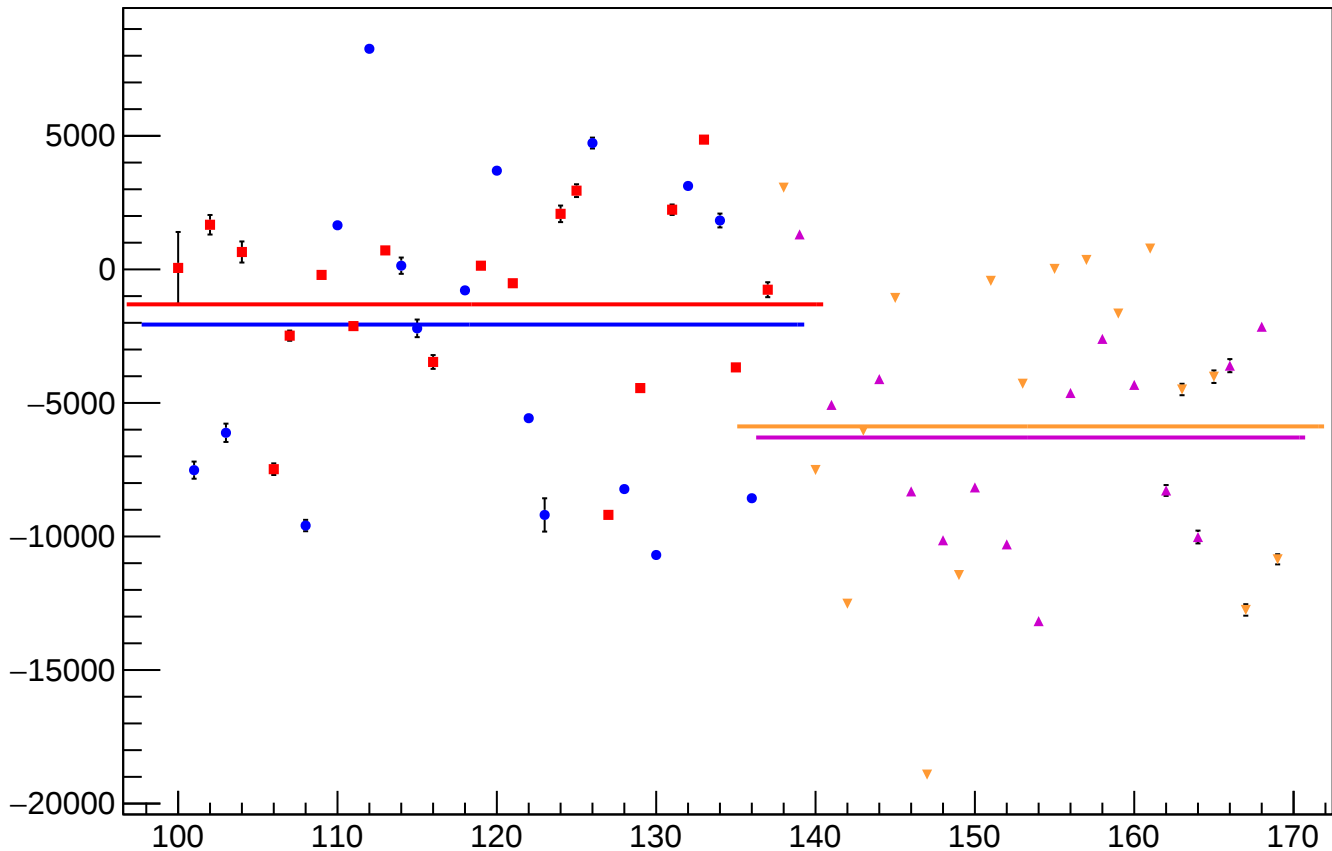
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 209.589+/-0.036 χ^2/NDF : 1121291.0/31

Out: 218.942+/-0.036 χ^2/NDF : 1375743.3/35

All: 214.245+/-0.025 χ^2/NDF : 2531296.0/67

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5878.738 ± 36.689 $\chi^2/\text{NDF}: 30027.5/16$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -6293.907 ± 38.085 $\chi^2/\text{NDF}: 9629.0/14$

Left: -6078.575 ± 26.423 $\chi^2/\text{NDF}: 39718.1/31$

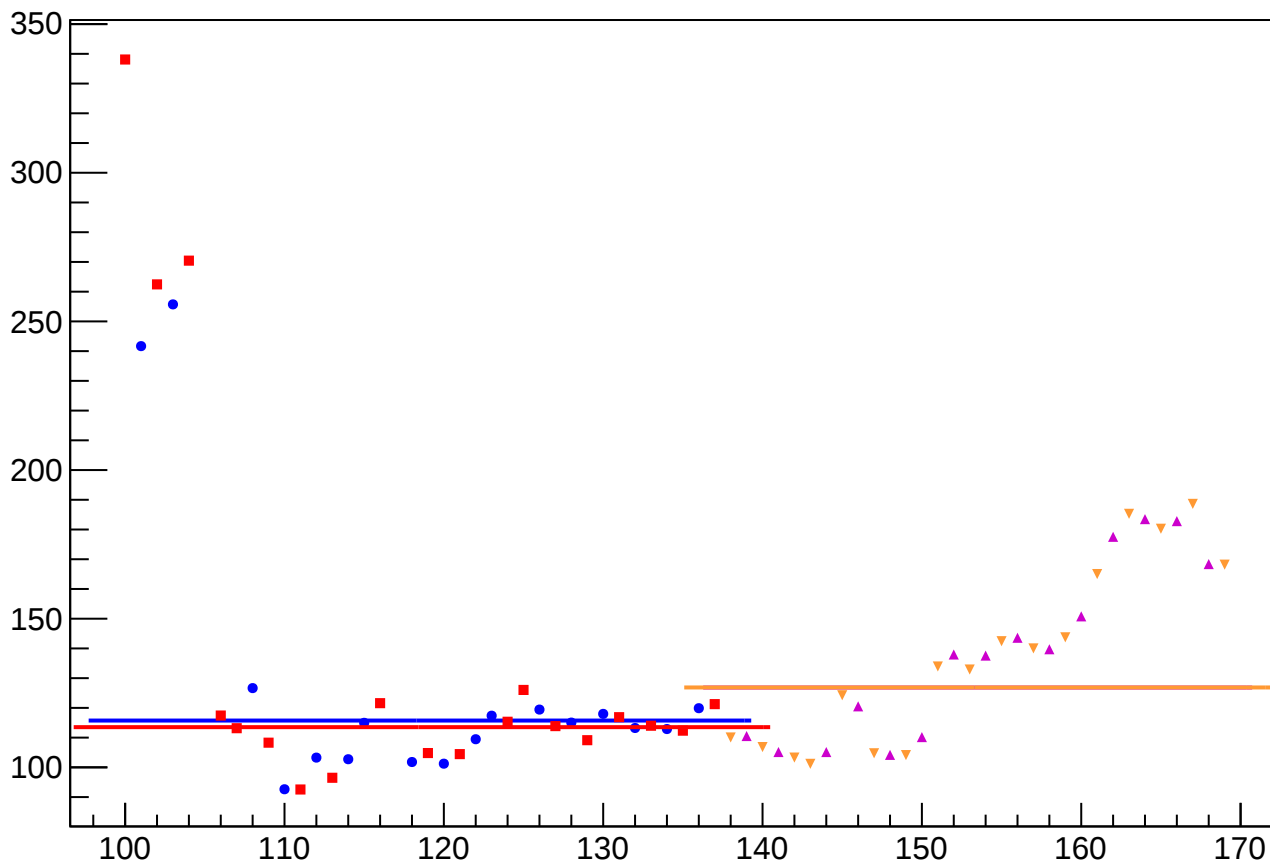
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4631.623 ± 29.670 $\chi^2/\text{NDF}: 31008.7/31$

Out: -4053.901 ± 28.436 $\chi^2/\text{NDF}: 42117.7/35$

All: -4330.501 ± 20.529 $\chi^2/\text{NDF}: 73324.0/67$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 126.871+/-0.026 χ^2/NDF :1015591.8/16

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: 126.857+/-0.019 χ^2/NDF : 1839426.0/31

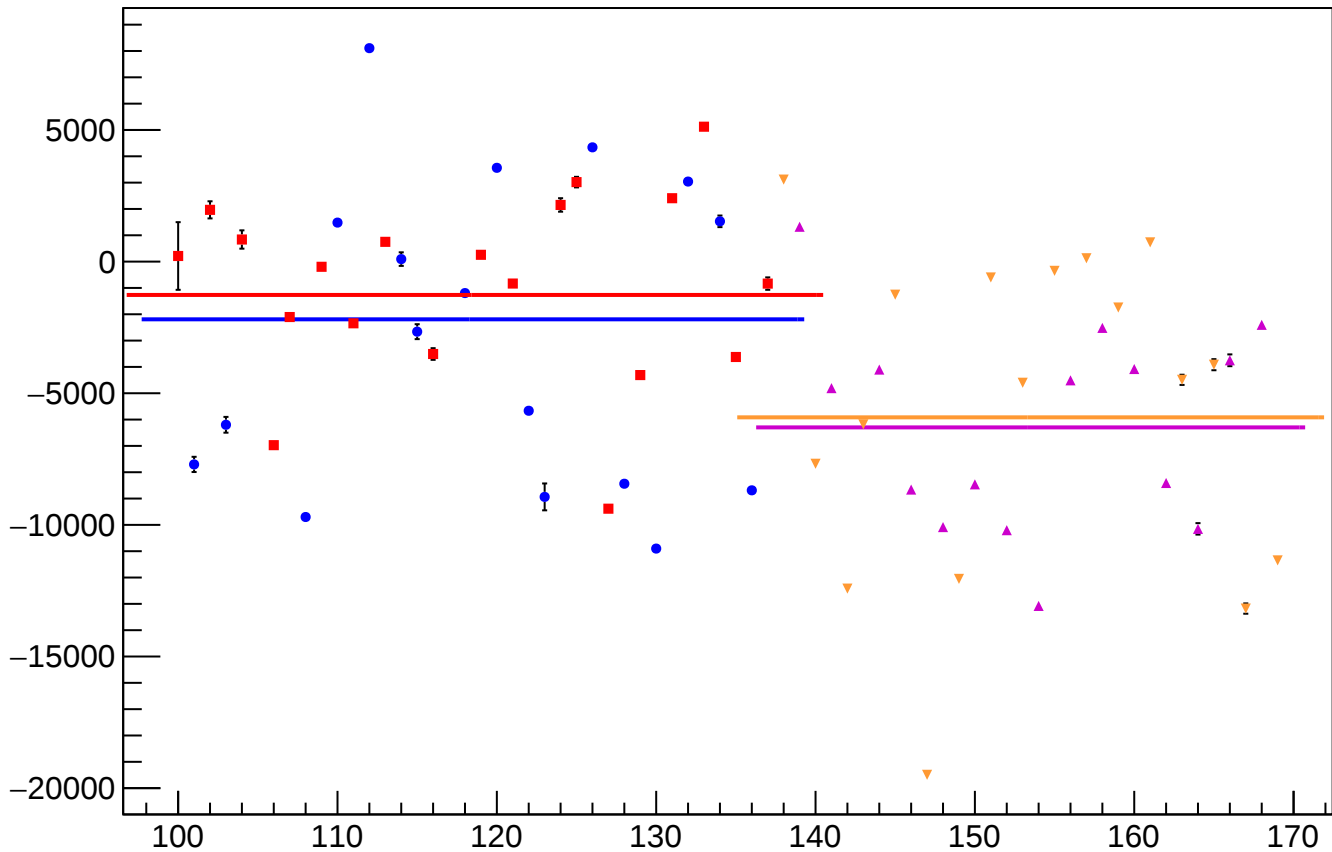
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 122.478+/-0.021 χ^2/NDF :1634654.8/31

Out: 121.540+/-0.020 χ^2/NDF :1918004.3/35

All: 121.989+/-0.015 χ^2/NDF : 3553701.5/67

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327+/-39.944 χ^2/NDF : 22813.5/16

Left Out: -5915.499+/-33.192 χ^2/NDF : 36830.9/16

Right Out: -1266.189+/-38.048 χ^2/NDF : 8550.5/18

Left In: -6297.100+/-34.864 χ^2/NDF : 11918.6/14

Left: -6096.932+/-24.040 χ^2/NDF : 48812.3/31

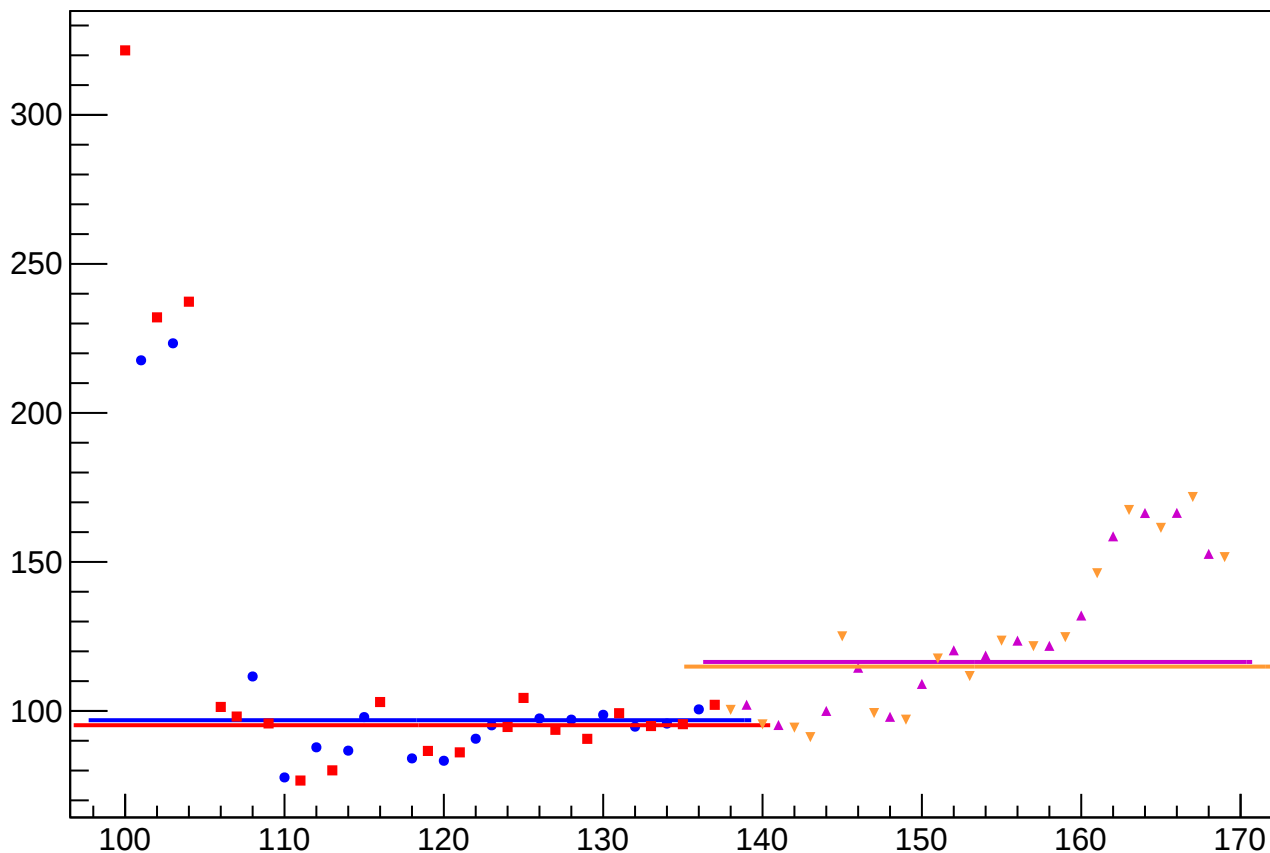
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4522.187+/-26.266 χ^2/NDF : 40726.1/31

Out: -3906.289+/-25.012 χ^2/NDF : 53860.3/35

All: -4199.187+/-18.113 χ^2/NDF : 94874.8/67

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16

Left Out: 114.881+/-0.023 χ^2/NDF : 919953.3/16

Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18

Left In: 116.441+/-0.025 χ^2/NDF : 654484.8/14

Left: 115.622+/-0.017 χ^2/NDF : 1576538.8/31

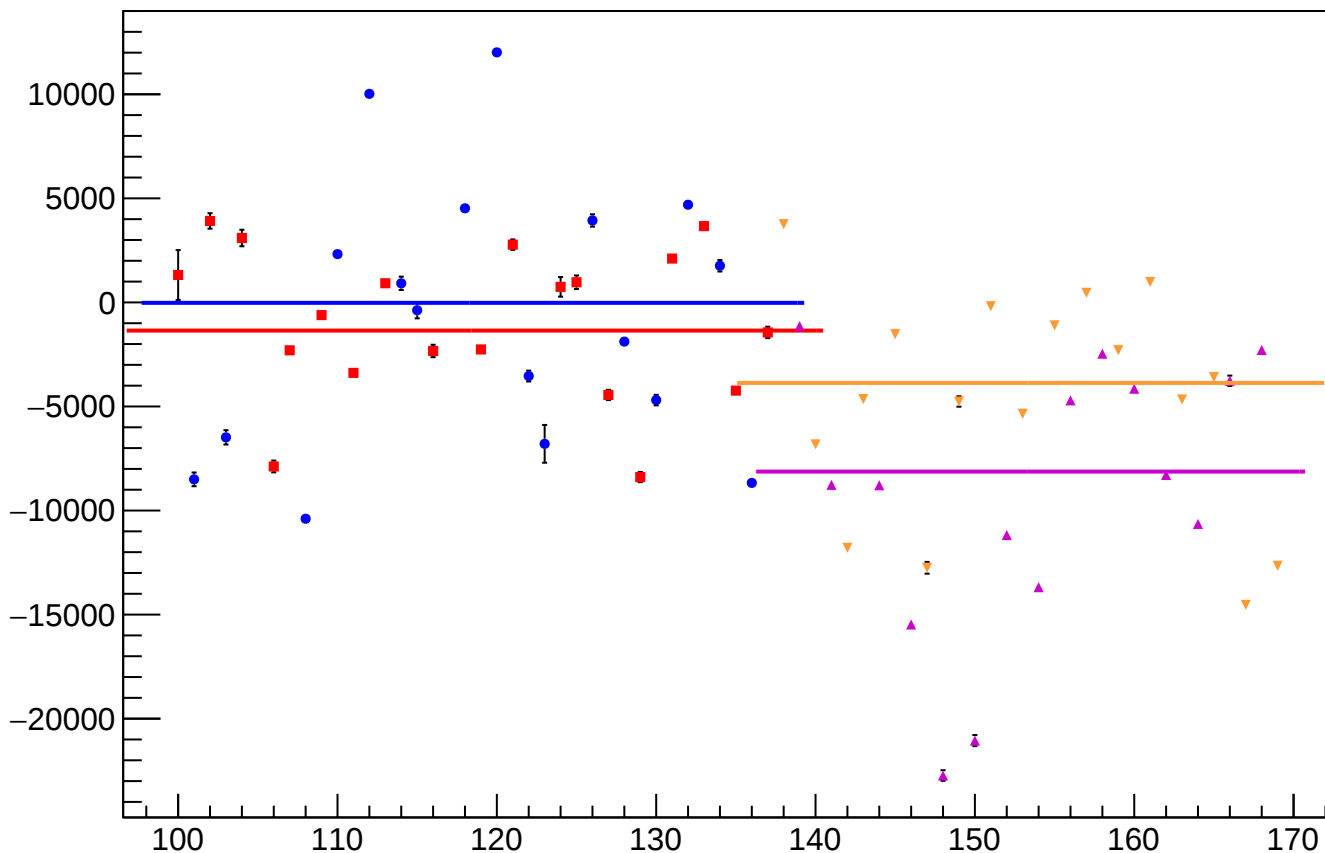
Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35

In: 107.989+/-0.019 χ^2/NDF : 1743561.3/31

Out: 106.381+/-0.018 χ^2/NDF : 2083207.9/35

All: 107.146+/-0.013 χ^2/NDF : 3830696.4/67

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 $\pm$ 54.643 χ^2/NDF : 16361.0/16

Left Out: -3869.232 $\pm$ 45.729 χ^2/NDF : 11656.4/16

Right Out: -1353.461 $\pm$ 52.367 χ^2/NDF : 3837.2/18

Left In: -8128.480 $\pm$ 48.849 χ^2/NDF : 13429.5/14

Left: -5858.492 $\pm$ 33.384 χ^2/NDF : 29137.6/31

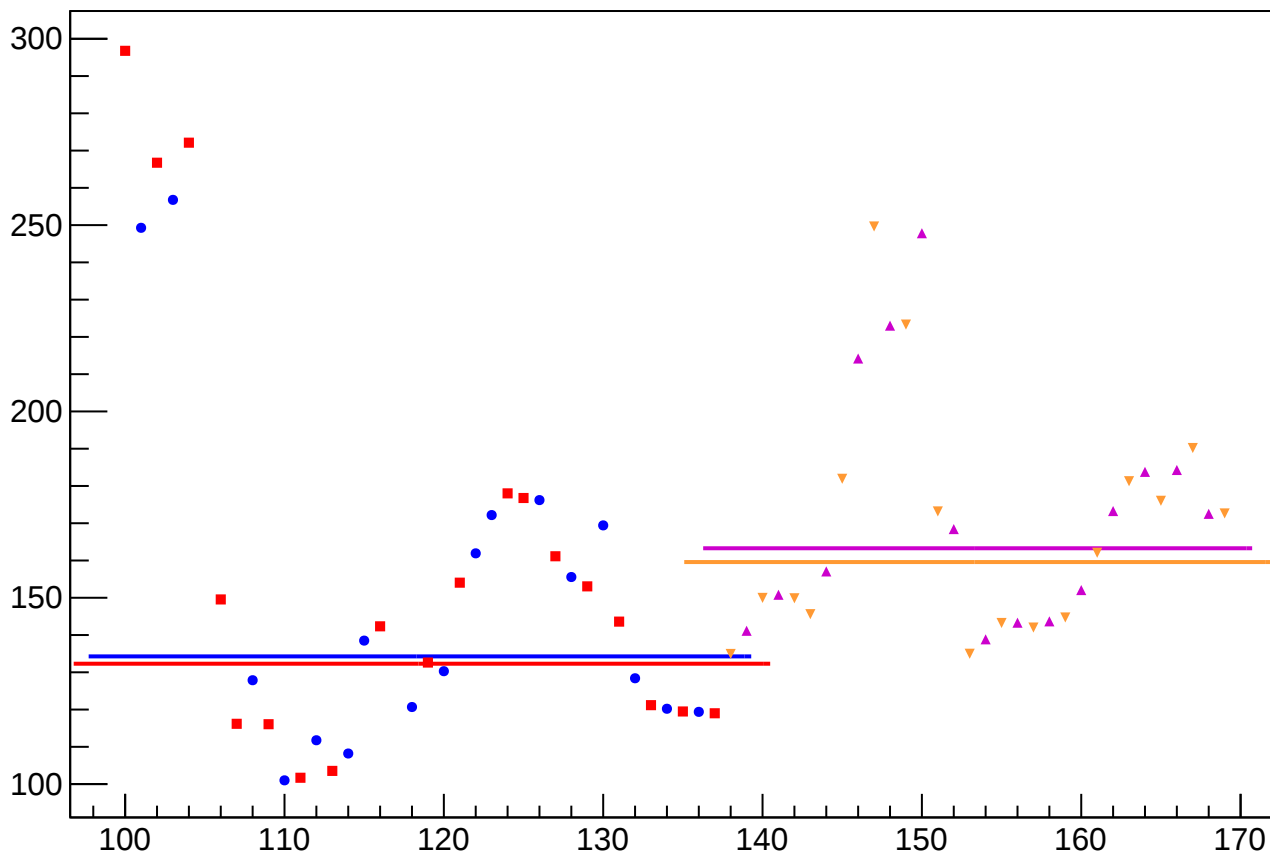
Right: -715.084 $\pm$ 37.808 χ^2/NDF : 20508.6/35

In: -4526.772 $\pm$ 36.419 χ^2/NDF : 42029.1/31

Out: -2780.797 $\pm$ 34.445 χ^2/NDF : 16803.1/35

All: -3605.187 $\pm$ 25.025 χ^2/NDF : 60045.3/67

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 159.583 $\pm$ 0.032 χ^2 /NDF: 630045.6/16

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: 161.311 $\pm$ 0.024 χ^2 /NDF: 1245533.1/31

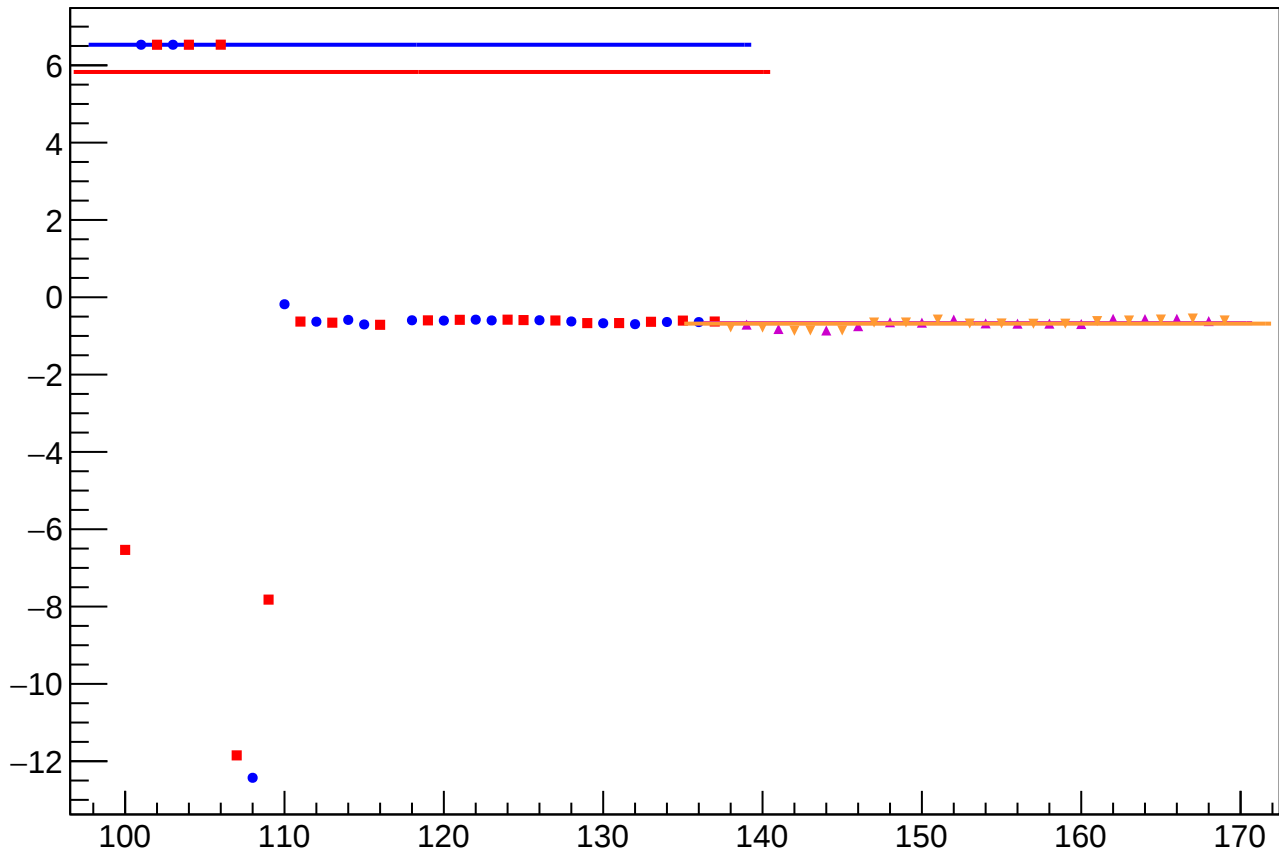
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 150.395 $\pm$ 0.026 χ^2 /NDF: 1711452.1/31

Out: 147.780 $\pm$ 0.024 χ^2 /NDF: 1807905.8/35

All: 149.015 $\pm$ 0.018 χ^2 /NDF: 3524798.1/67

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.682+/-0.000 χ^2/NDF : 126273658.0/16

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: -0.675+/-0.000 χ^2/NDF : 222398725.5/31

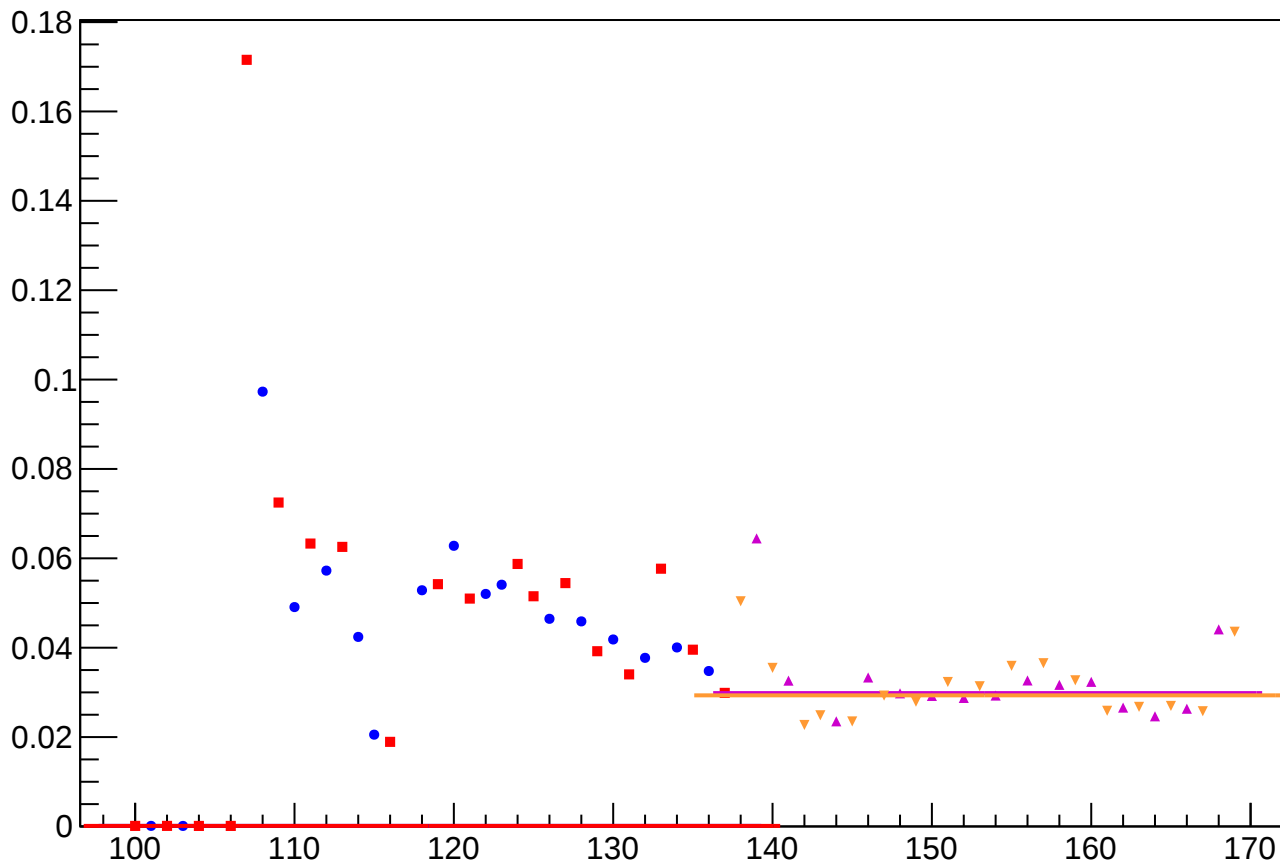
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/16

In: 6.531+/-0.000 χ^2/NDF : 667357572345.3/31

Out: 5.827+/-0.000 χ^2/NDF : 756438960114579.5/31

All: 6.154+/-0.000 χ^2/NDF : 77710514233558.0/16

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 : 727095.0/16

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: 0.030+/-0.000 χ^2/NDF : 1469390.6/31

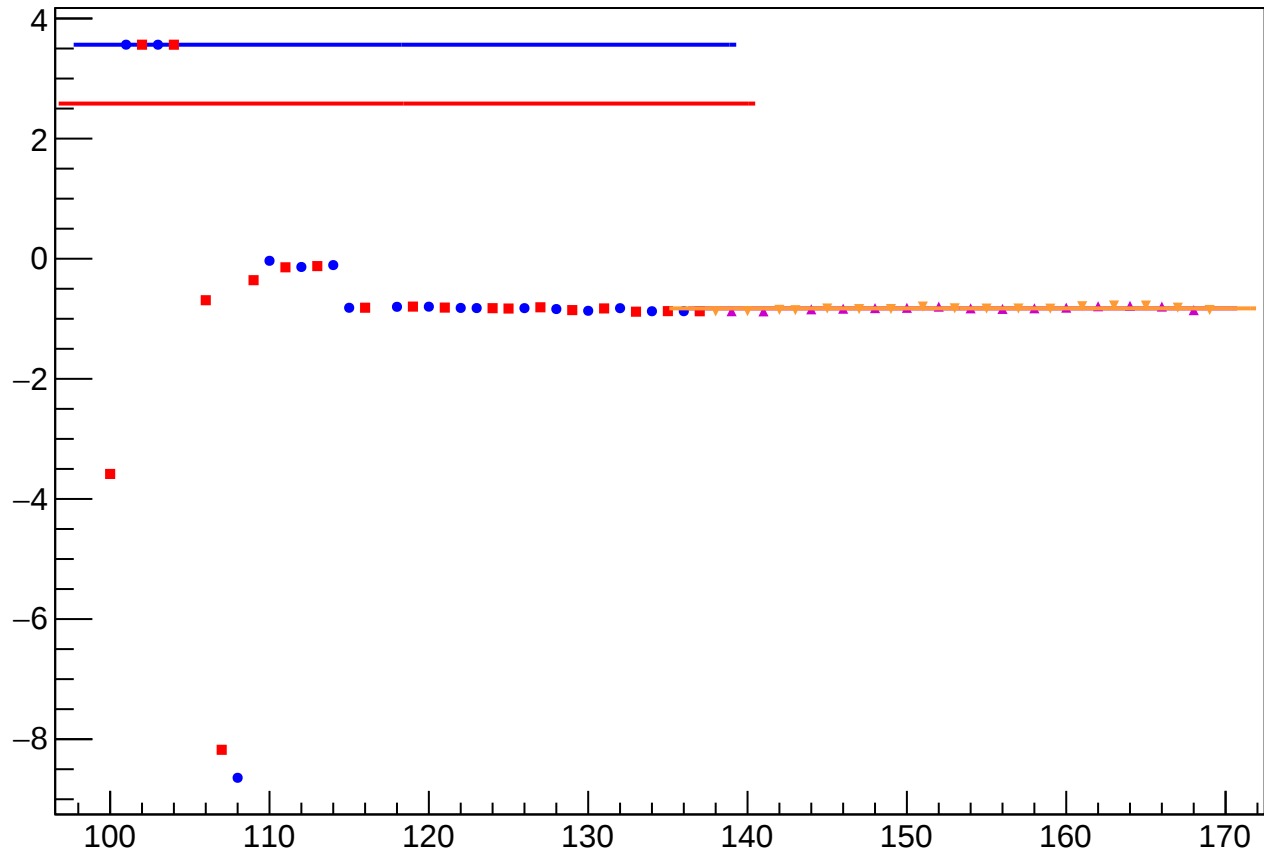
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 28141944.5/31

Out: 0.000+/-0.000 χ^2/NDF : 29850777.7/35

All: 0.000+/-0.000 χ^2/NDF : 57993033.1/67

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.827+/-0.000 χ^2/NDF : 130574965.9/16

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: -0.827+/-0.000 χ^2/NDF : 238308038.6/31

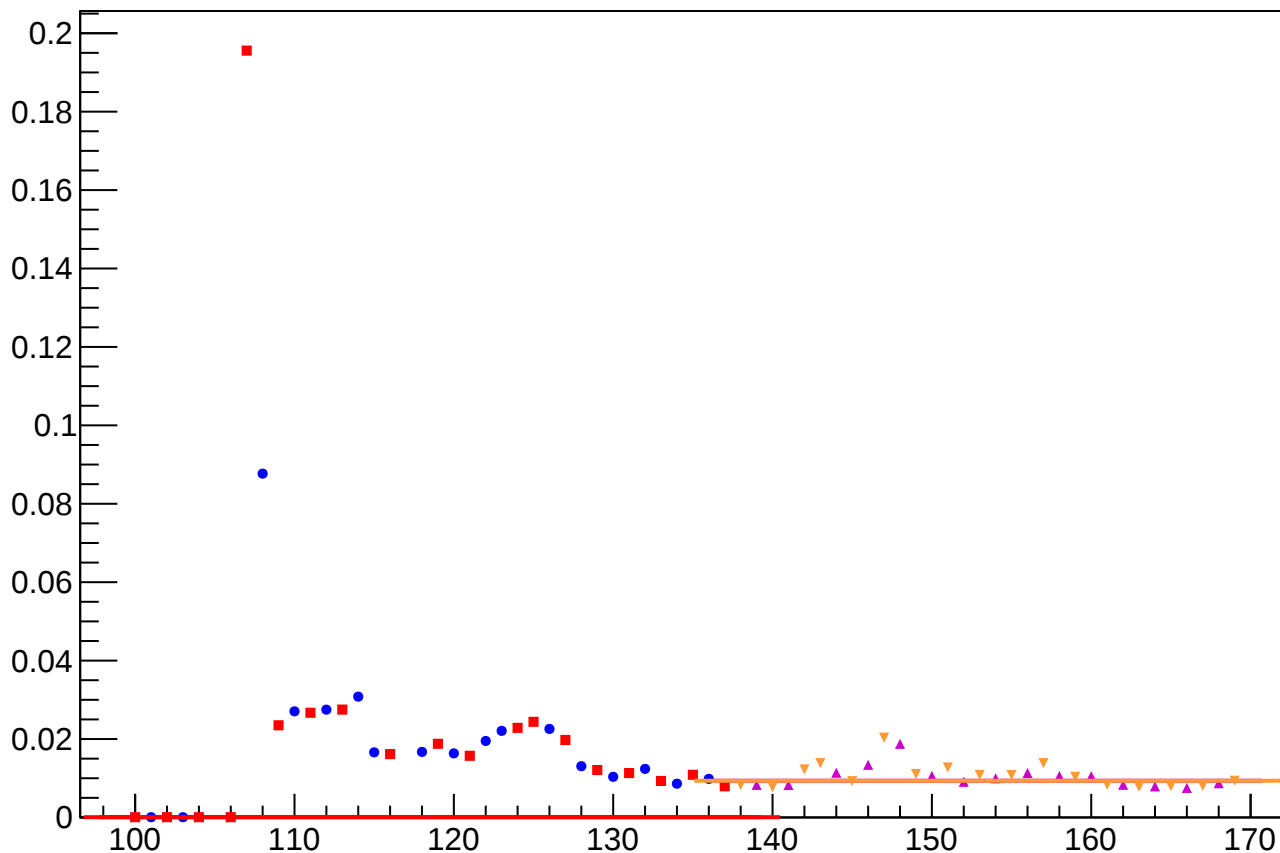
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 2531086508100.2/31

Out: 2.582+/-0.000 χ^2/NDF : 1254838453113636.0

All: 3.039+/-0.000 χ^2/NDF : 13855637043130

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 :1059703.4/16

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 : 1815852.5/31

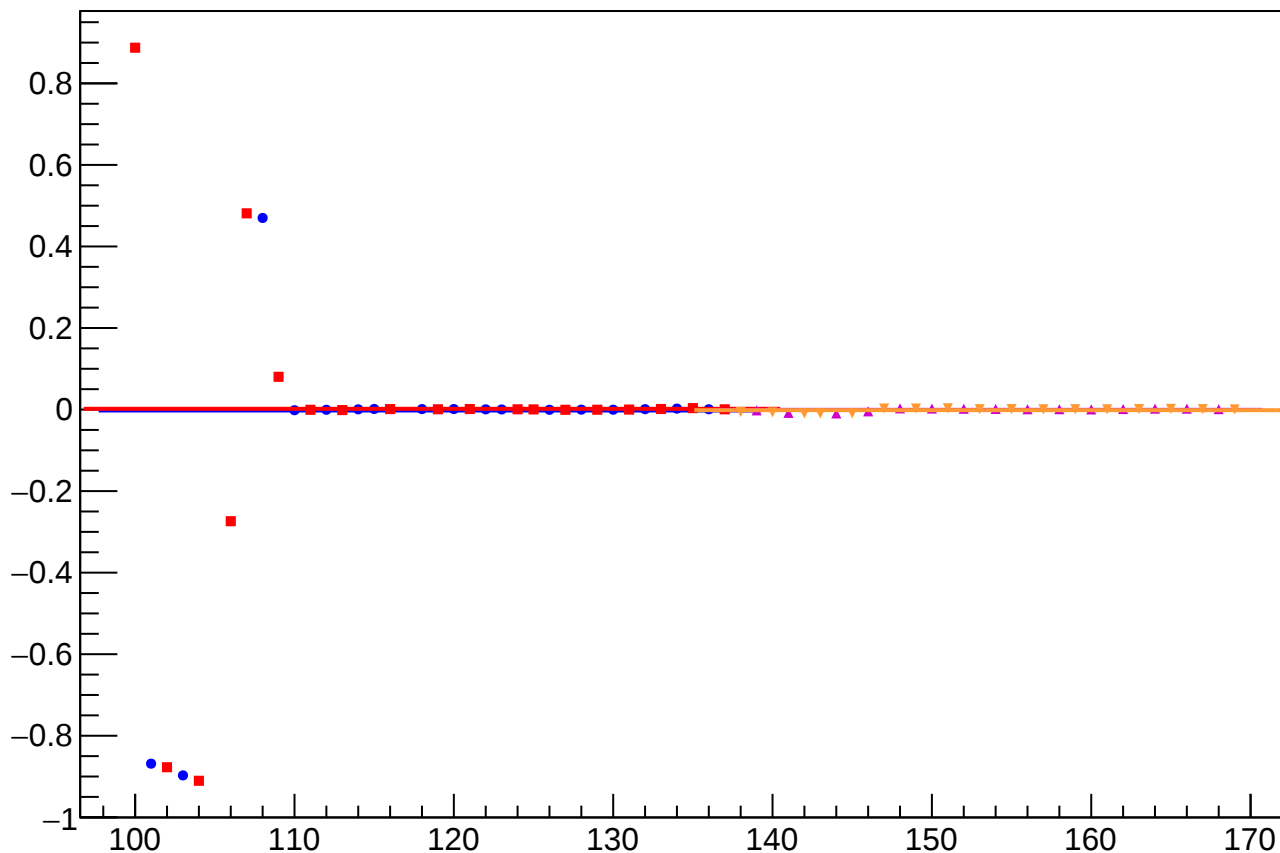
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :28915224.3/31

Out: 0.000+/-0.000 χ^2/NDF :30754125.0/35

All: 0.000+/-0.000 χ^2/NDF : 59669762.4/67

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 : 92984595.9/16

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 : 160859408.4/31

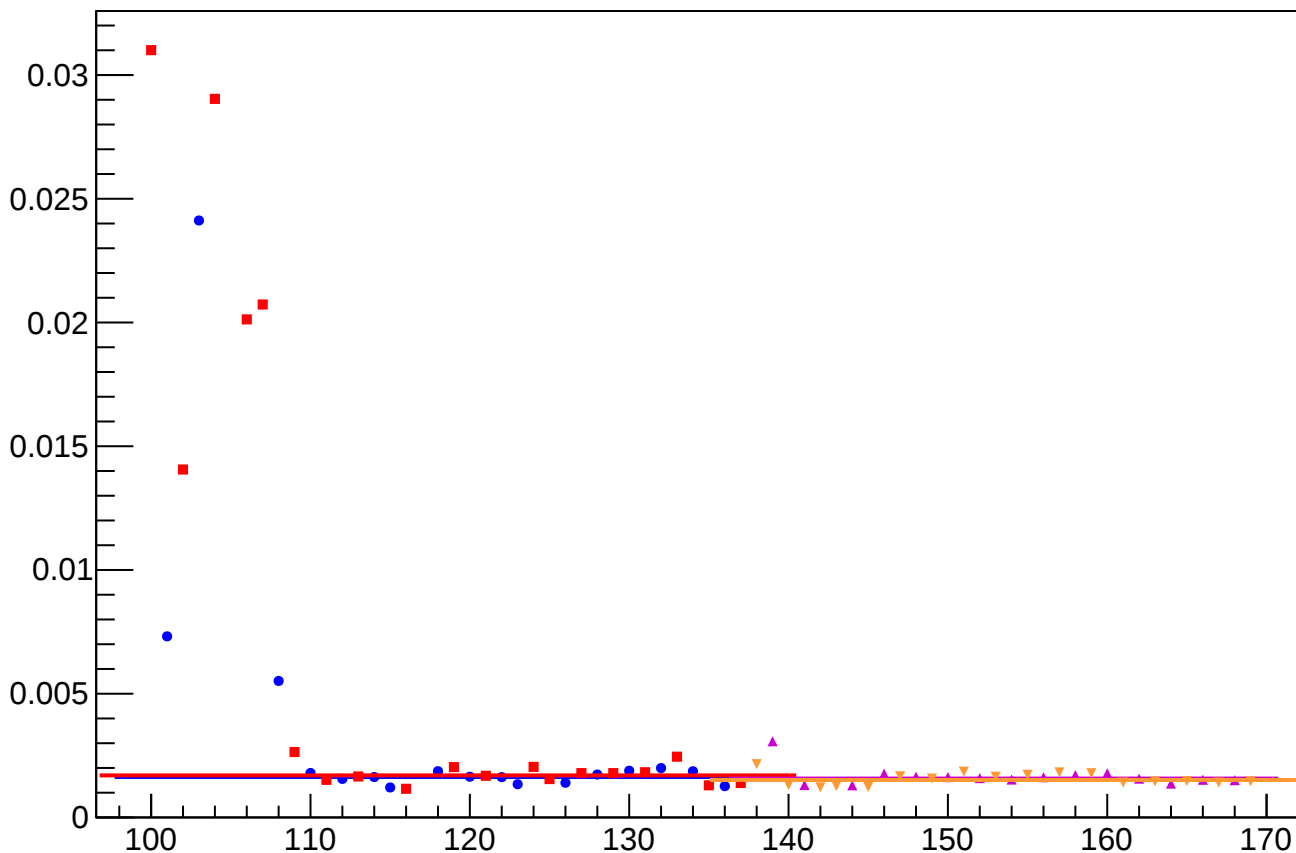
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9864809144.3/31

Out: -0.001+/-0.000 χ^2/NDF : 3147410061.6/35

All: -0.001+/-0.000 χ^2/NDF : 13013074535.7/71

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:429899.6/16

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: 944579.6/31

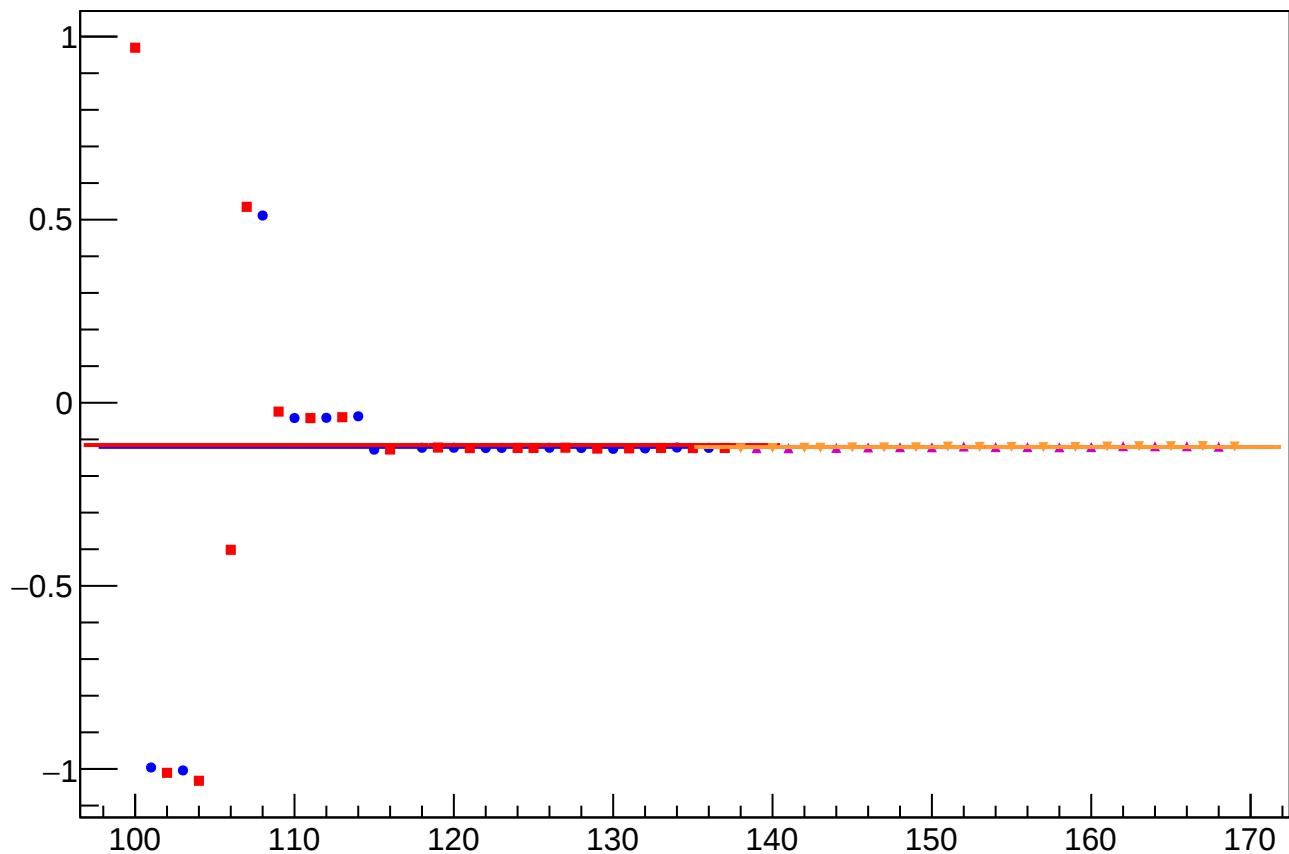
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2430360.7/31

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3534259.7/35

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5969421.6/67

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 : 31962750.6/16

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 : 59786056.4/31

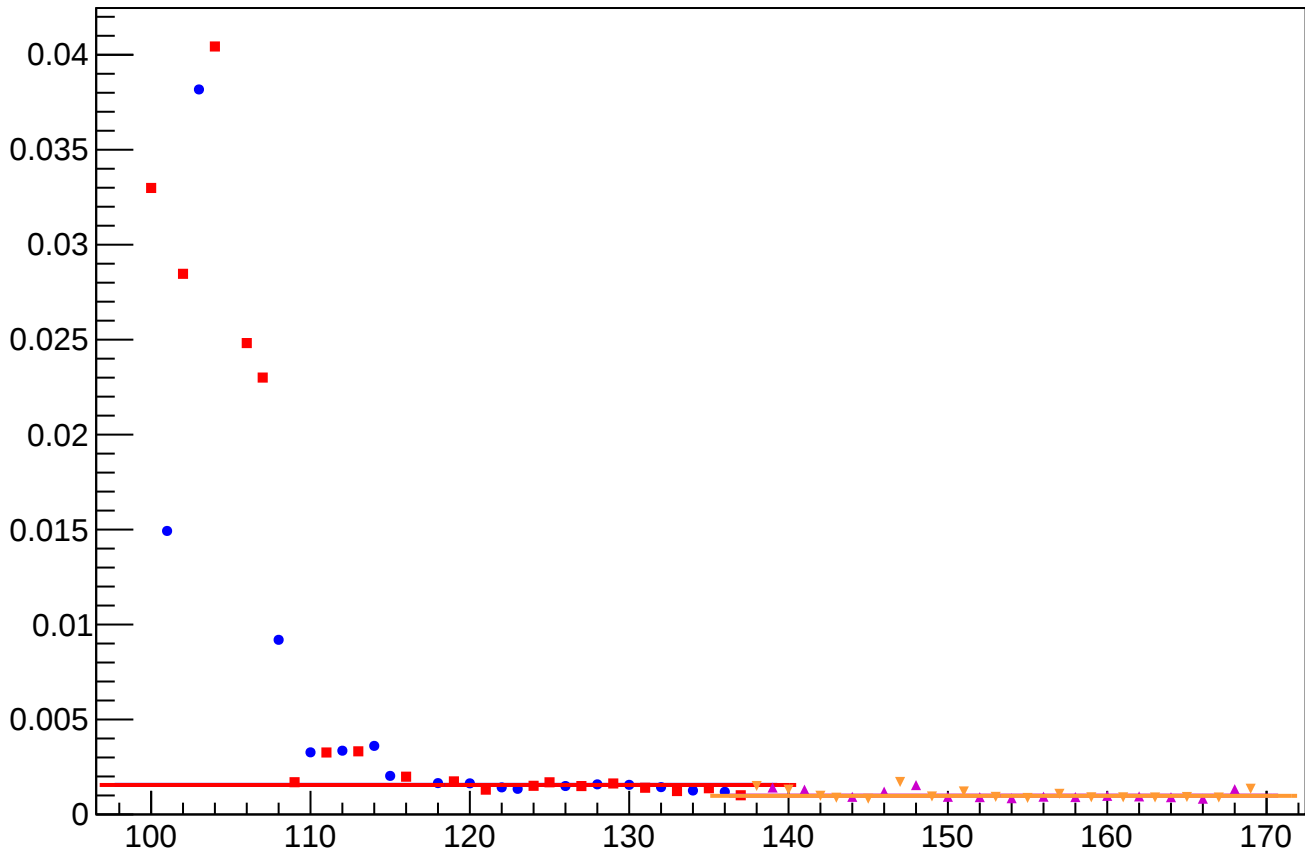
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960542106.6/31

Out: -0.120+/-0.000 χ^2/NDF : 2537052523.4/35

All: -0.120+/-0.000 χ^2/NDF : 6500612970.3/6

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 :841339.6/16

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 : 1511065.0/31

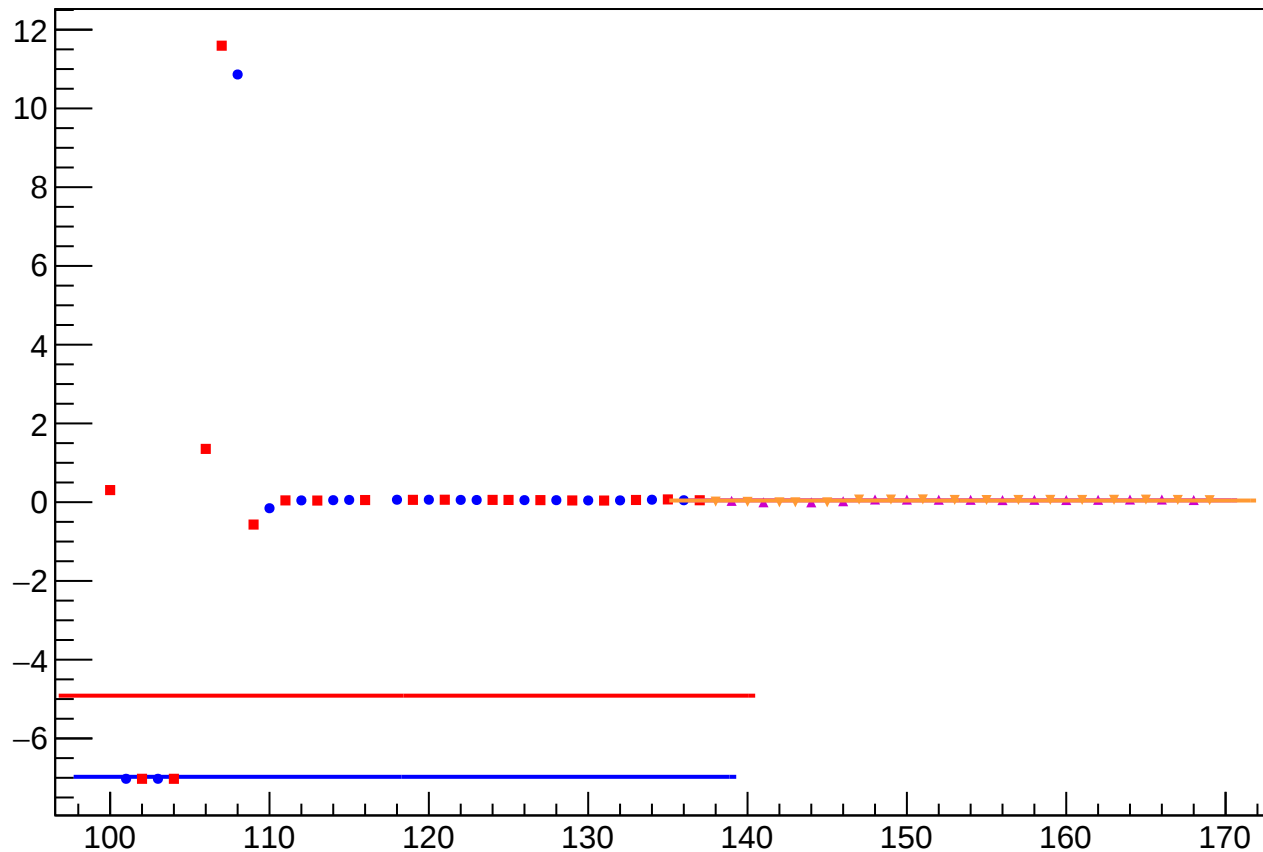
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF :4610557.2/31

Out: 0.001+/-0.000 χ^2/NDF :5453238.8/35

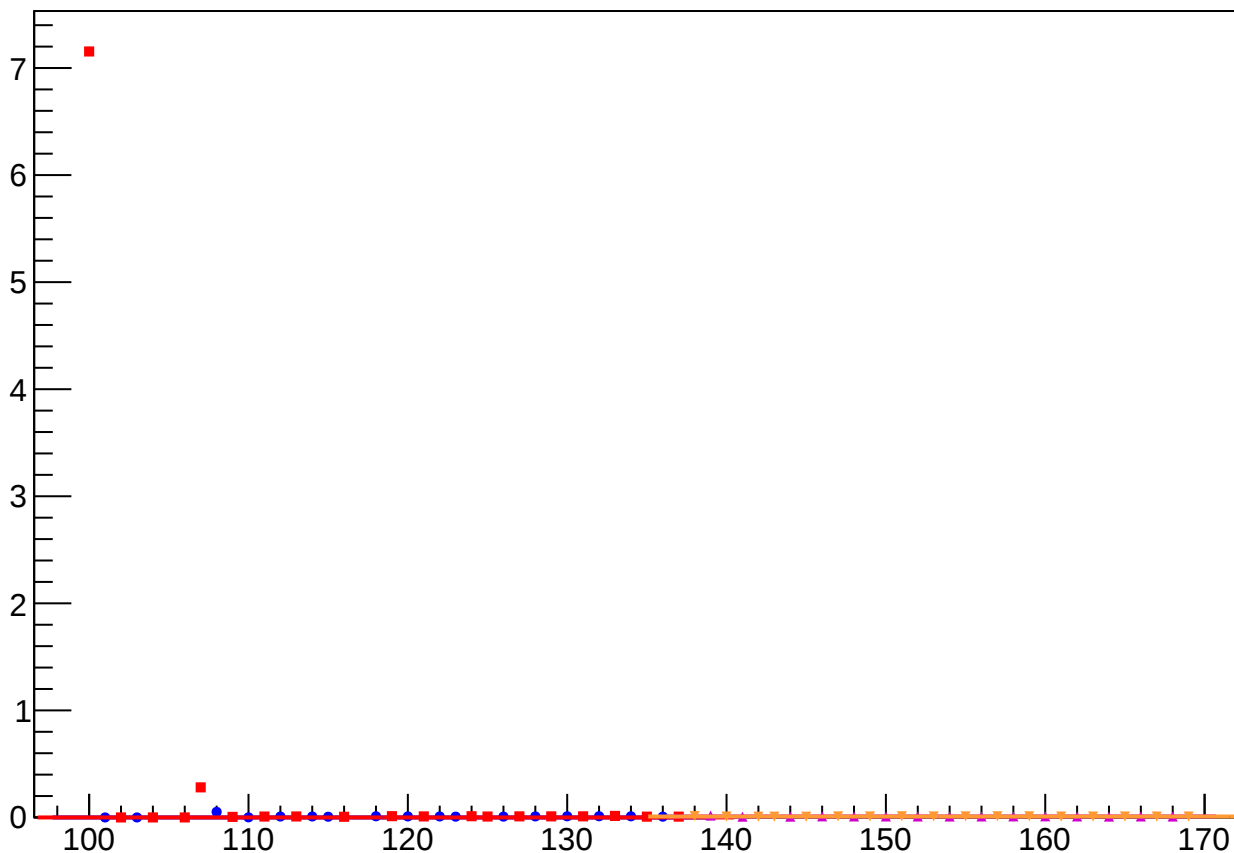
All: 0.001+/-0.000 χ^2/NDF : 10068072.8/67

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$ Left: 0.044 ± 0.000 $\chi^2/\text{NDF}: 169566314.4/31$
 Left Out: 0.042 ± 0.000 $\chi^2/\text{NDF}: 94350398.3/16$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$ In: -6.945 ± 0.000 $\chi^2/\text{NDF}: 14151952141507.0/31$
 Left In: 0.046 ± 0.000 $\chi^2/\text{NDF}: 74048055.1/14$ Out: -4.891 ± 0.000 $\chi^2/\text{NDF}: 368453725928314.9/18$
 All: -5.873 ± 0.000 $\chi^2/\text{NDF}: 4386312289042.0/16$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF :422901.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF :495130.5/14

Left: 0.009+/-0.000 χ^2/NDF : 931577.1/31

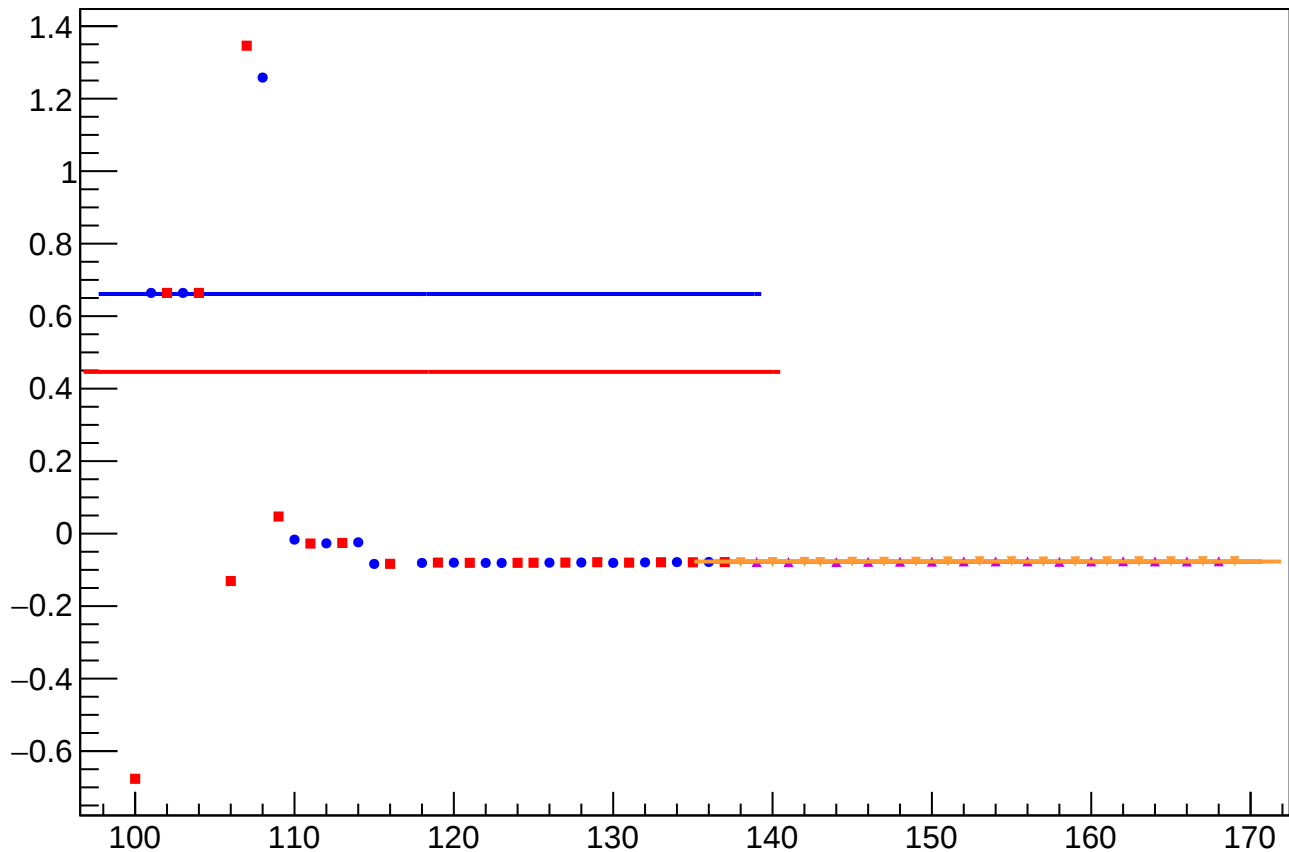
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF :26859908.3/31

Out: 0.000+/-0.000 χ^2/NDF :28539167.2/35

All: 0.000+/-0.000 χ^2/NDF : 55399267.8/67

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 5678332616622.1/16

Left Out: -0.077+/-0.000 χ^2/NDF : 32189929.1/16

Right Out: 0.446+/-0.000 χ^2/NDF : 405428604683882.5/18

Left In: -0.077+/-0.000 χ^2/NDF : 21530584.7/14

Left: -0.077+/-0.000 χ^2/NDF : 53809962.3/31

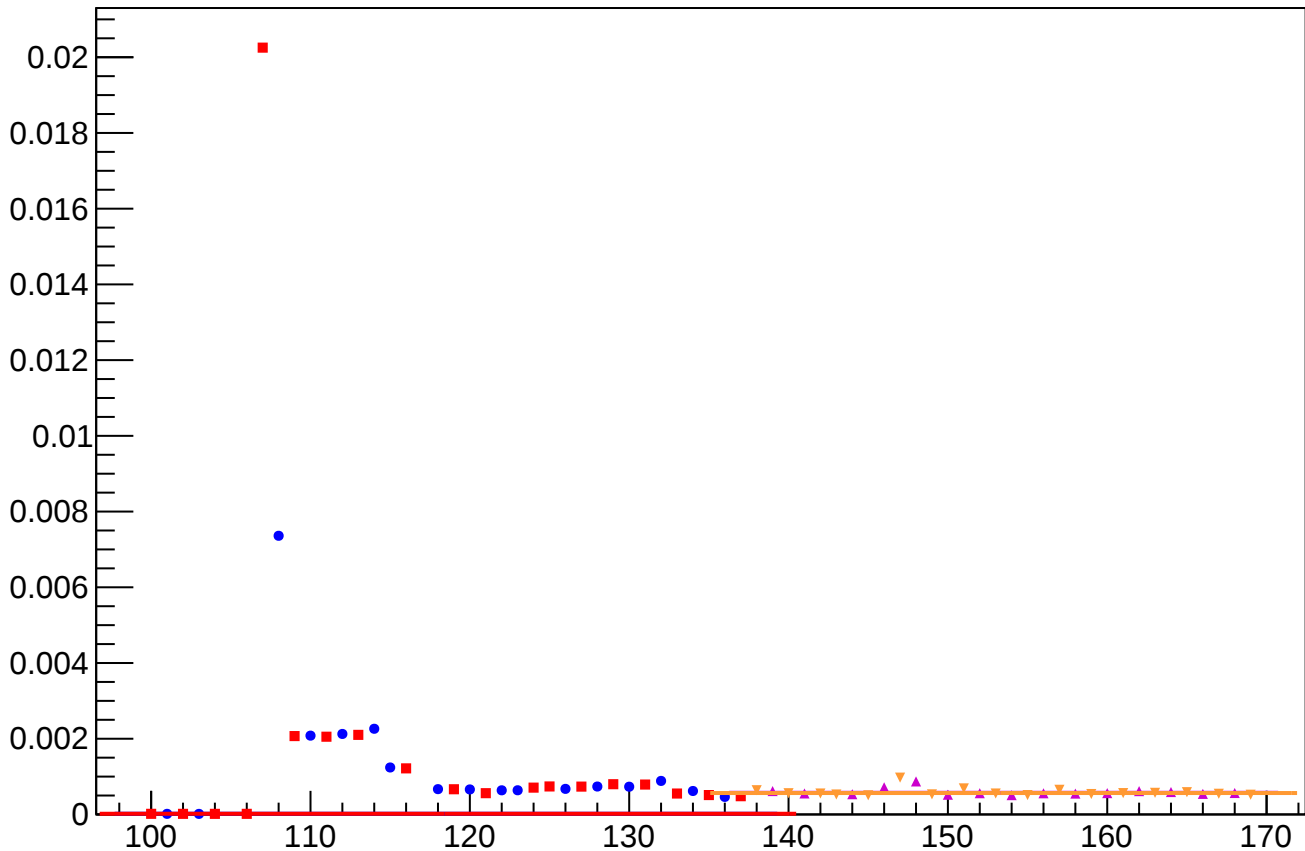
Right: 0.549+/-0.000 χ^2/NDF : 474014800057413.9

In: 0.652+/-0.000 χ^2/NDF : 23908577380755.9/31

Out: 0.439+/-0.000 χ^2/NDF : 415536754628957.1/3

All: 0.541+/-0.000 χ^2/NDF : 50158081443492

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 : 423394.6/16

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 : 740433.2/31

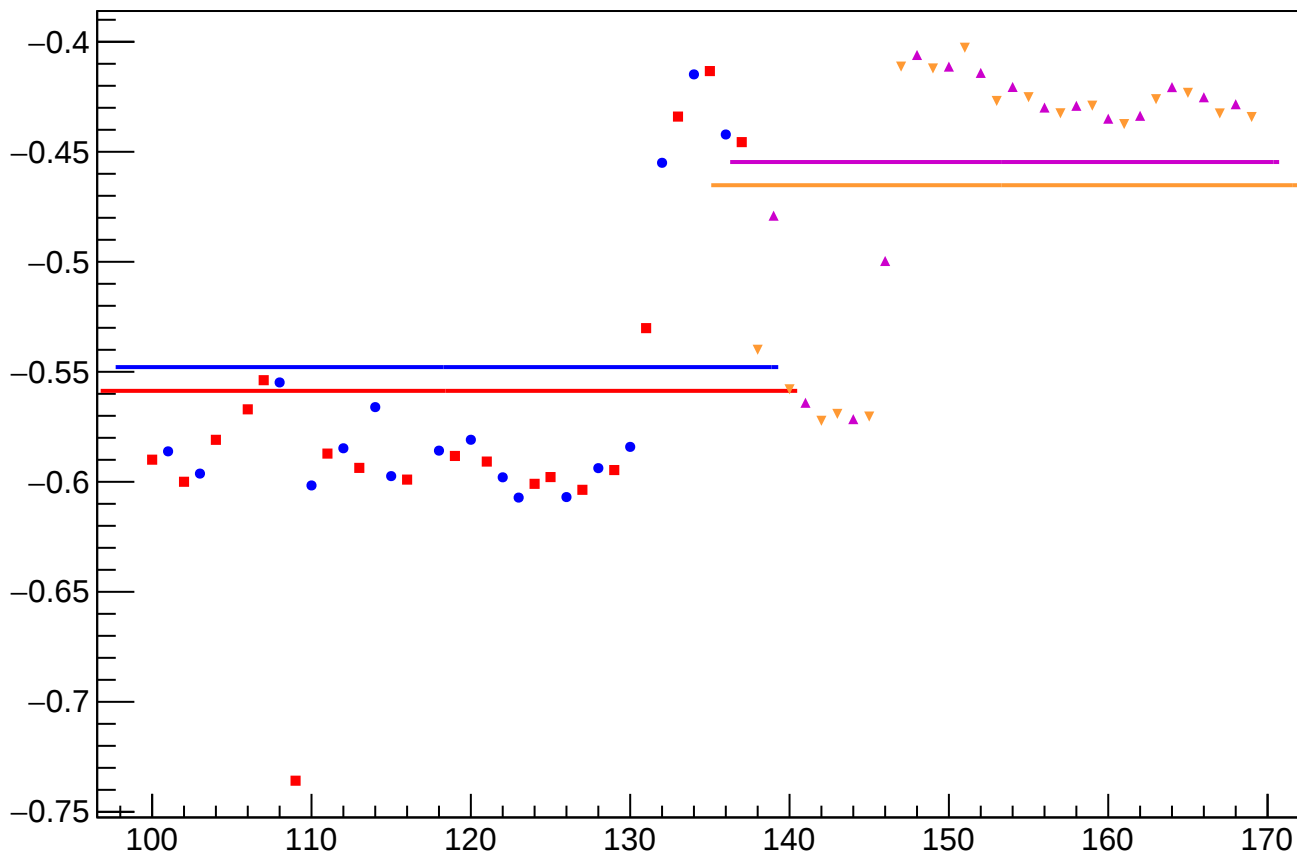
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 30826225.4/31

Out: 0.000+/-0.000 χ^2/NDF : 32065053.2/35

All: 0.000+/-0.000 χ^2/NDF : 62891306.8/67

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.465+/-0.000 χ^2/NDF : 103880331.2/16

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: -0.460+/-0.000 χ^2/NDF : 179140518.6/31

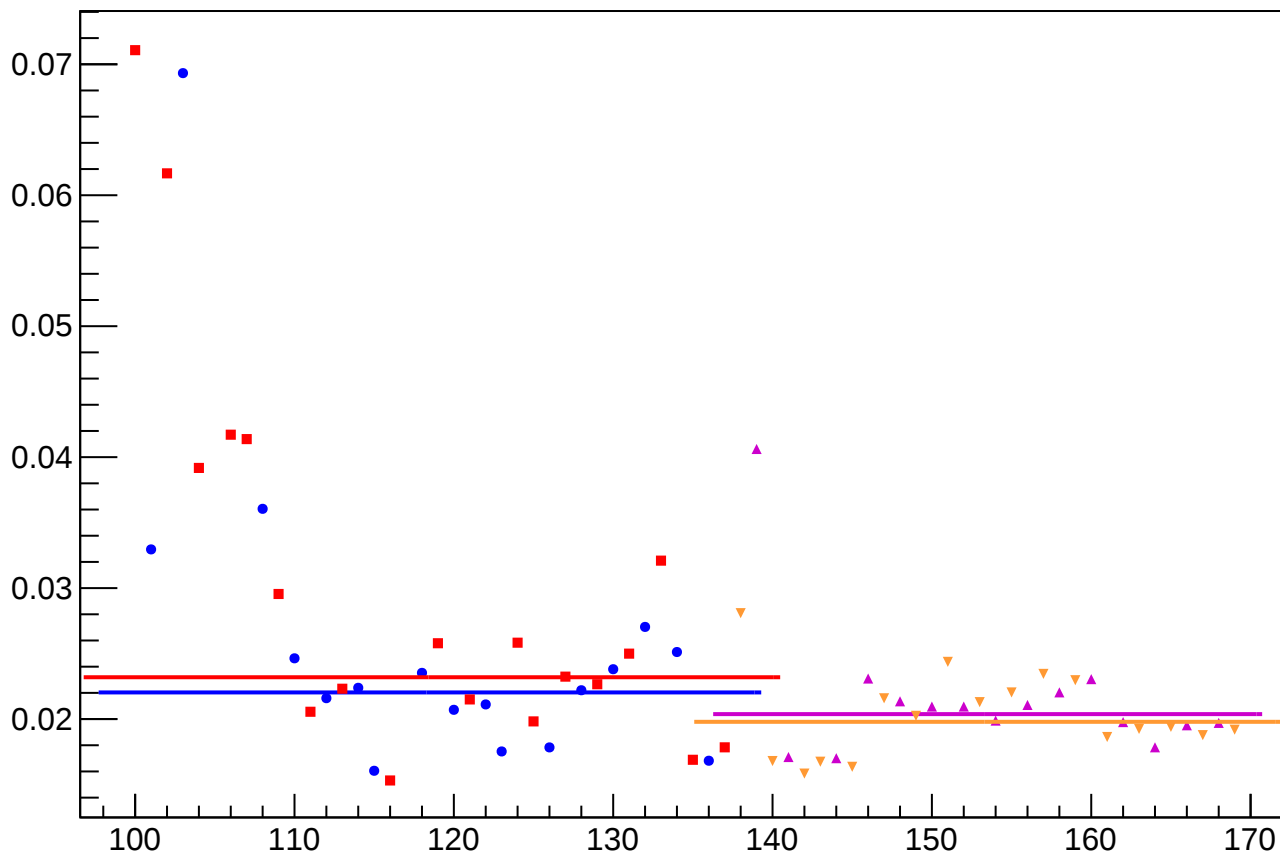
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.484+/-0.000 χ^2/NDF : 184819905.2/31

Out: -0.491+/-0.000 χ^2/NDF : 232066539.1/35

All: -0.488+/-0.000 χ^2/NDF : 417707936.2/67

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 :398935.2/16

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 : 909889.7/31

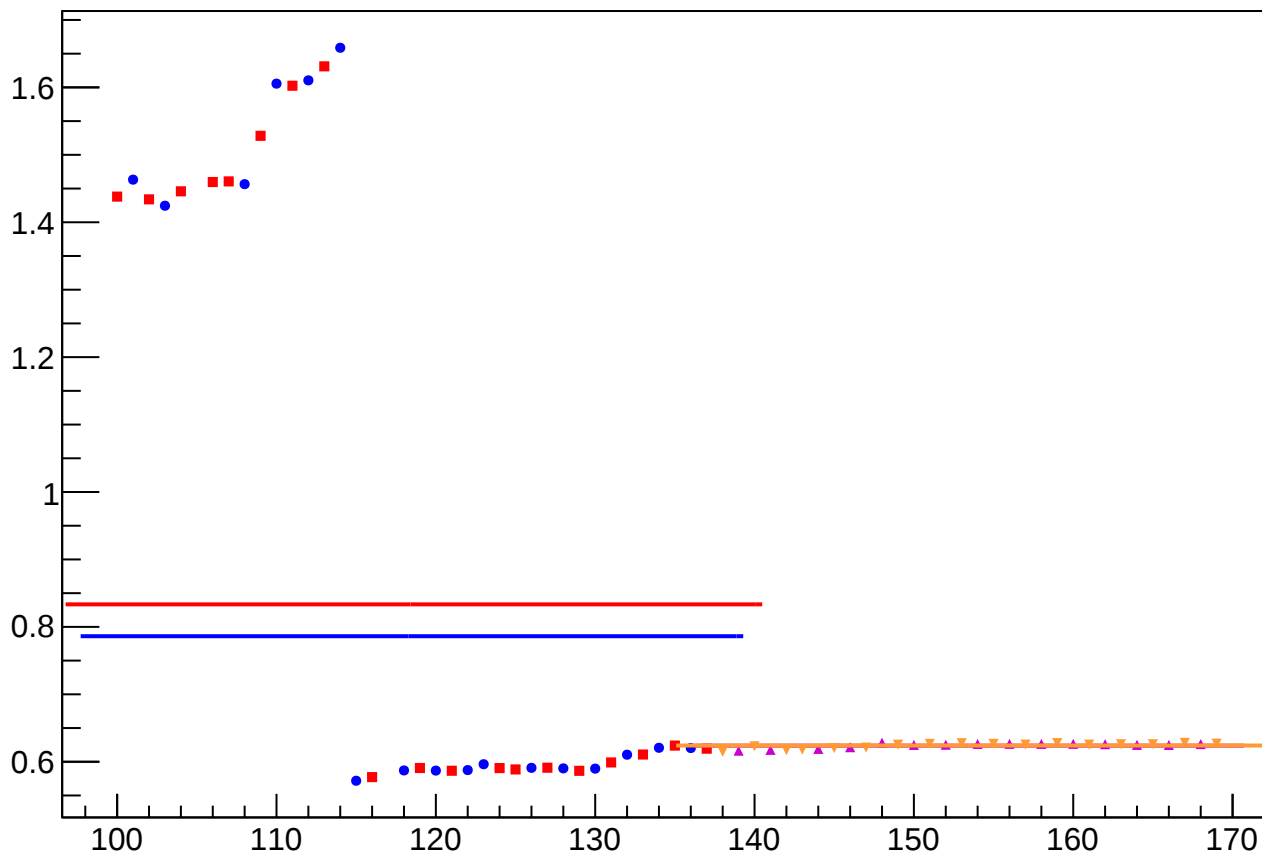
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF :1500943.4/31

Out: 0.021+/-0.000 χ^2/NDF :1721680.6/35

All: 0.021+/-0.000 χ^2/NDF : 3223575.5/67

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 : 1185978.1/16

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 : 2105734.0/31

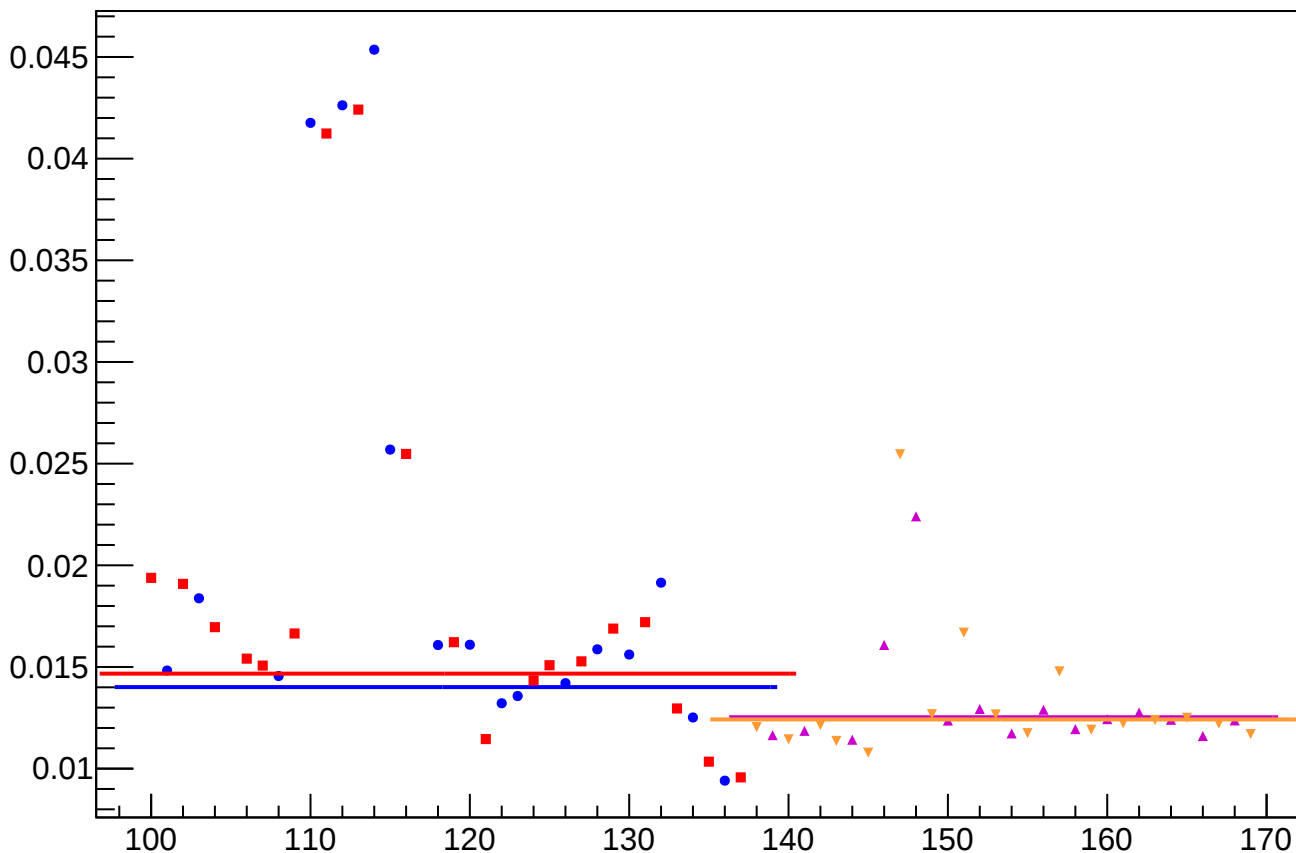
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.671+/-0.000 χ^2/NDF : 4132565847.3/31

Out: 0.679+/-0.000 χ^2/NDF : 5058435203.3/35

All: 0.675+/-0.000 χ^2/NDF : 9194769678.8/67

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF :595532.4/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.013+/-0.000 χ^2/NDF :417293.6/14

Left: 0.012+/-0.000 χ^2/NDF : 1013719.9/31

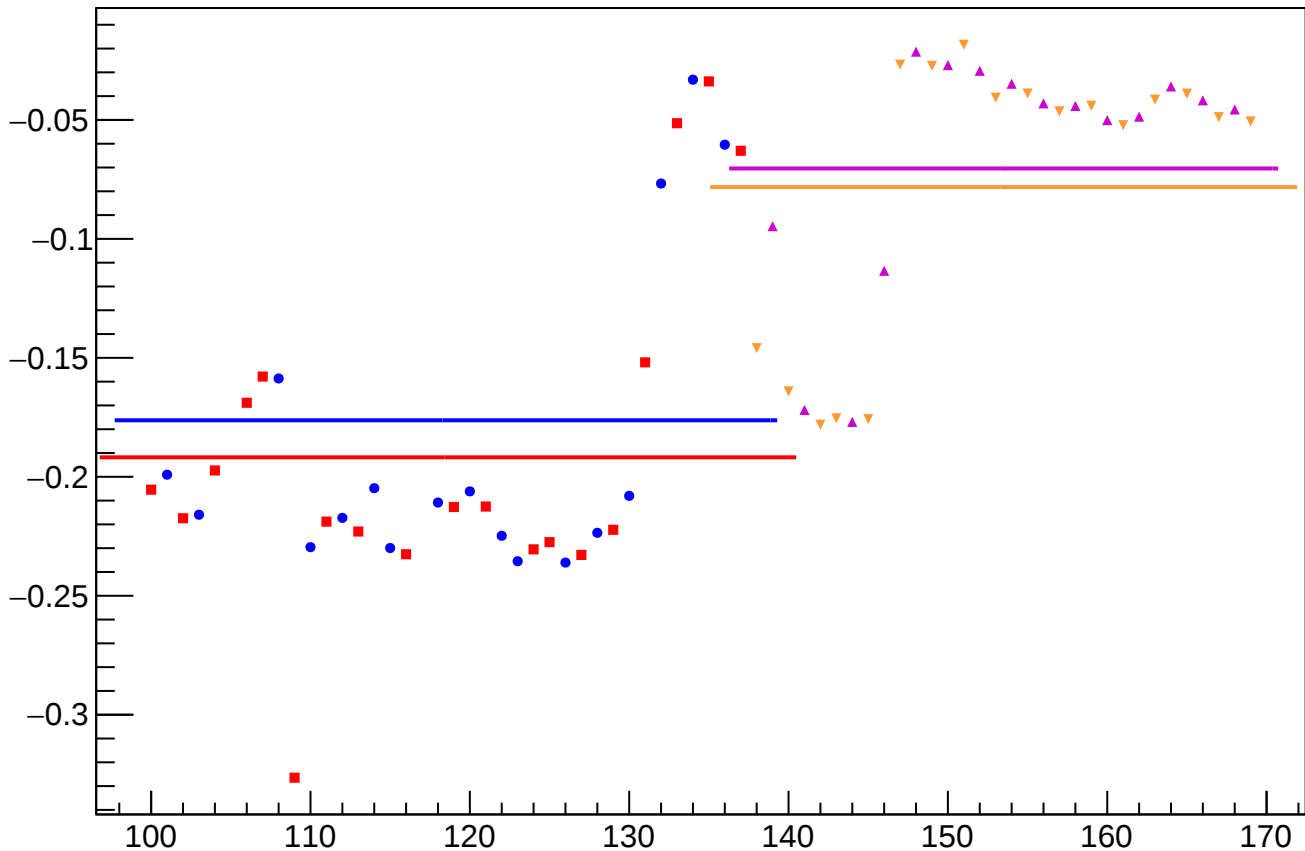
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1912453.8/31

Out: 0.013+/-0.000 χ^2/NDF :2067696.2/35

All: 0.013+/-0.000 χ^2/NDF : 3980482.9/67

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.078+/-0.000 χ^2/NDF : 99041199.2/16

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: -0.075+/-0.000 χ^2/NDF : 174030141.7/31

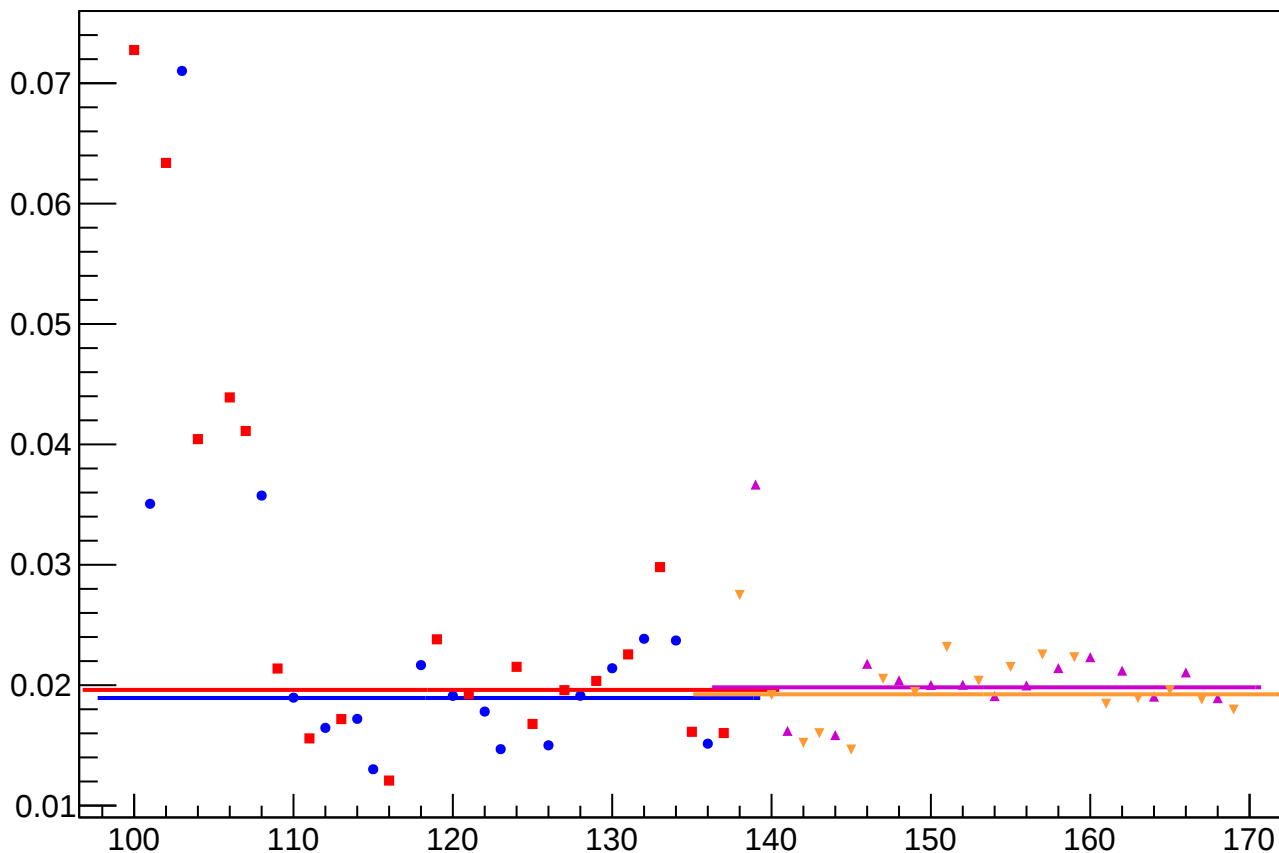
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.109+/-0.000 χ^2/NDF : 243410015.5/31

Out: -0.116+/-0.000 χ^2/NDF : 299844612.7/35

All: -0.113+/-0.000 χ^2/NDF : 544049130.7/67

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 : 425653.6/16

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 : 910051.7/31

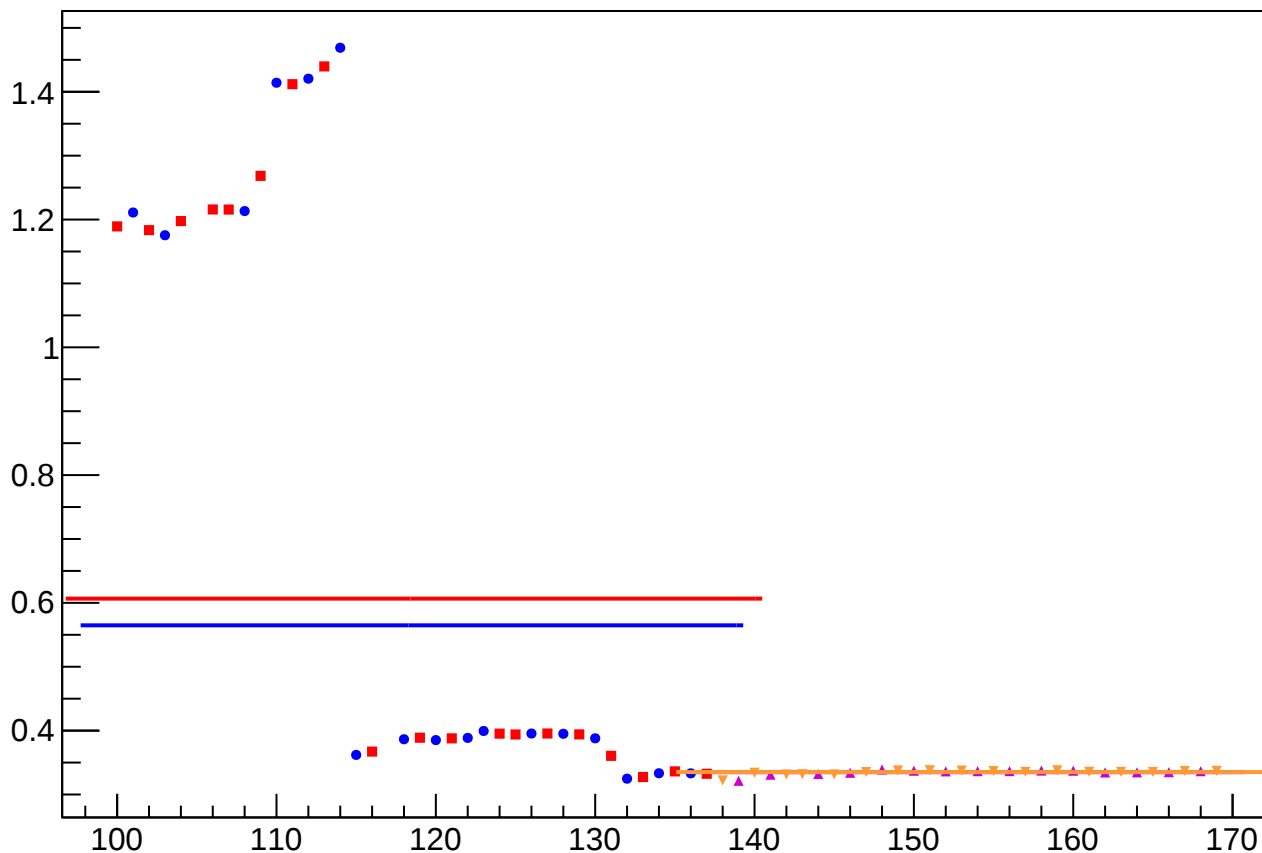
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1695498.1/31

Out: 0.019+/-0.000 χ^2/NDF : 1885767.9/35

All: 0.019+/-0.000 χ^2/NDF : 3581977.6/67

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 :1124225.9/16

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 : 2296133.5/31

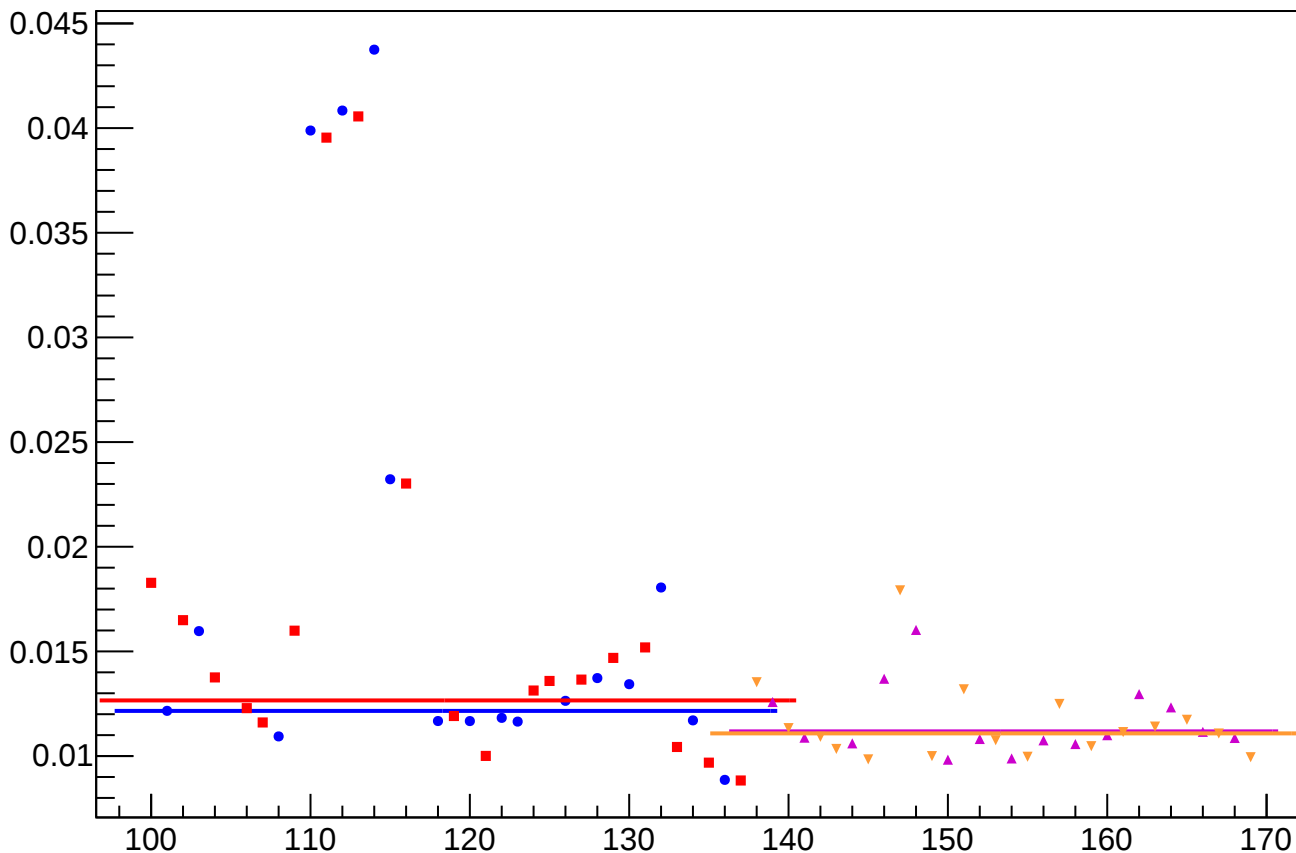
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.404+/-0.000 χ^2/NDF :6446373378.1/31

Out: 0.409+/-0.000 χ^2/NDF :7483938663.0/35

All: 0.407+/-0.000 χ^2/NDF : 13932014607.3/66

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:420538.4/16

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:322729.5/14

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 744130.5/31

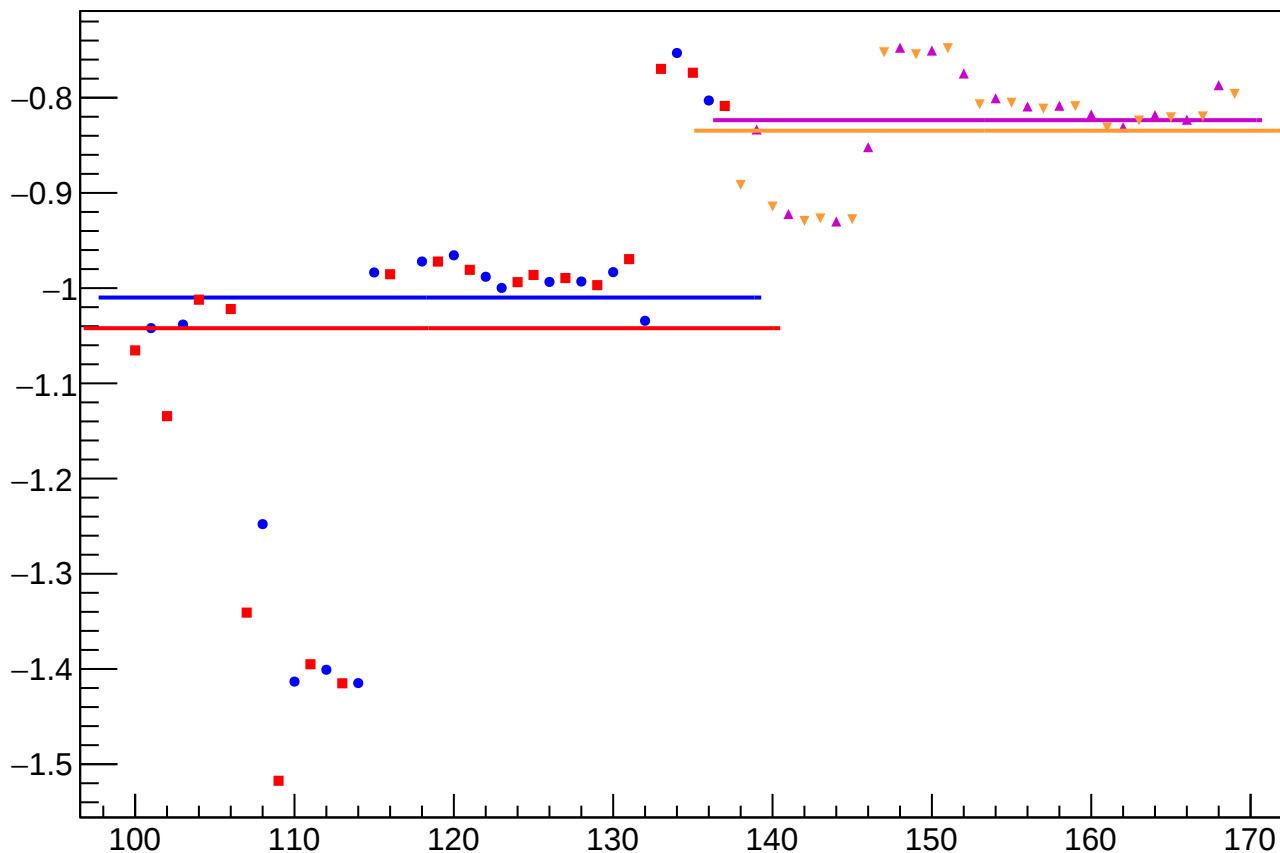
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1683821.2/31

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1823738.0/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3507765.3/67

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.835 ± 0.000 χ^2/NDF : 96526750.1/16

Right Out: -1.042 ± 0.000 χ^2/NDF : 530106141.8/18

Left In: -0.824 ± 0.000 χ^2/NDF : 73014457.3/14

Left: -0.829 ± 0.000 χ^2/NDF : 171074123.9/31

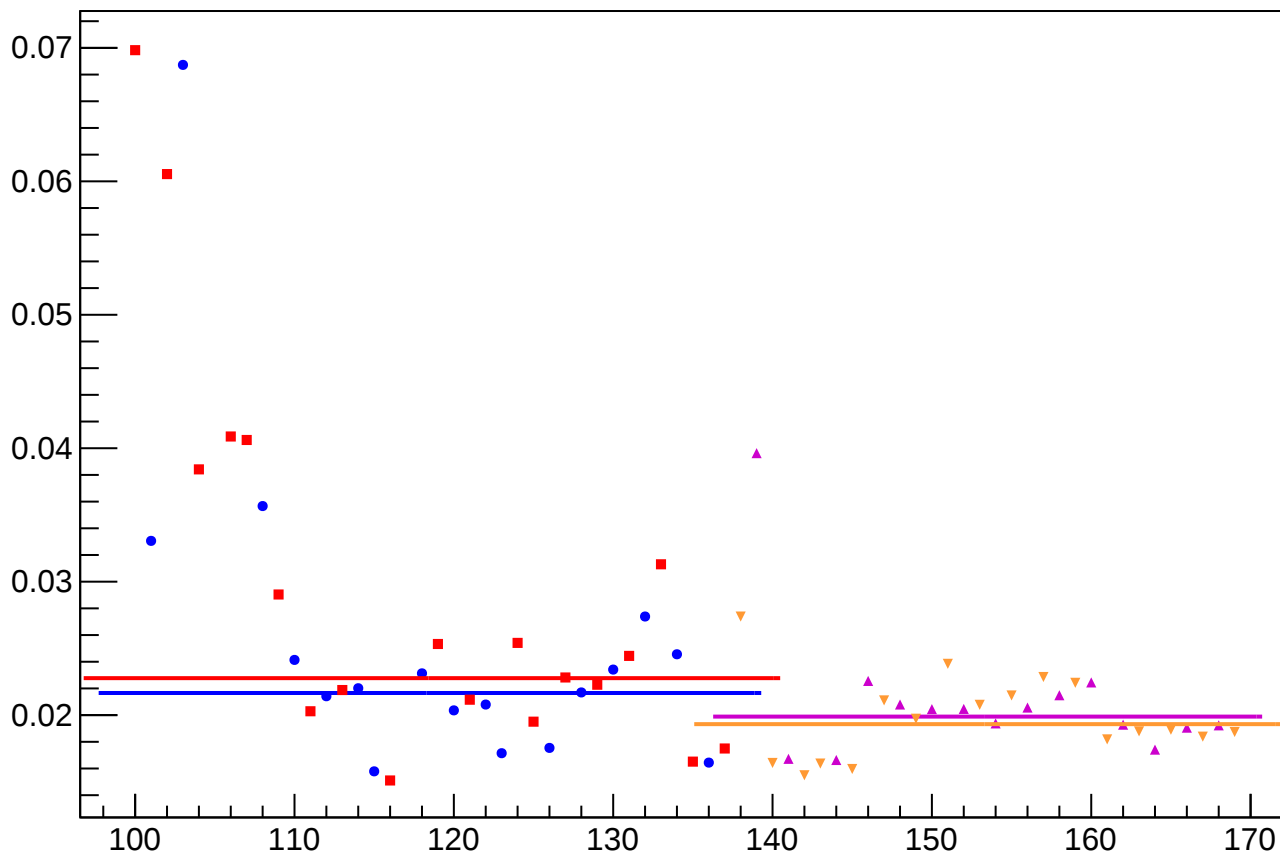
Right: -1.026 ± 0.000 χ^2/NDF : 923225272.3/35

In: -0.882 ± 0.000 χ^2/NDF : 719108405.3/31

Out: -0.892 ± 0.000 χ^2/NDF : 946524950.7/35

All: -0.887 ± 0.000 χ^2/NDF : 1667302119.8/6

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 : 396599.3/16

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 : 904269.0/31

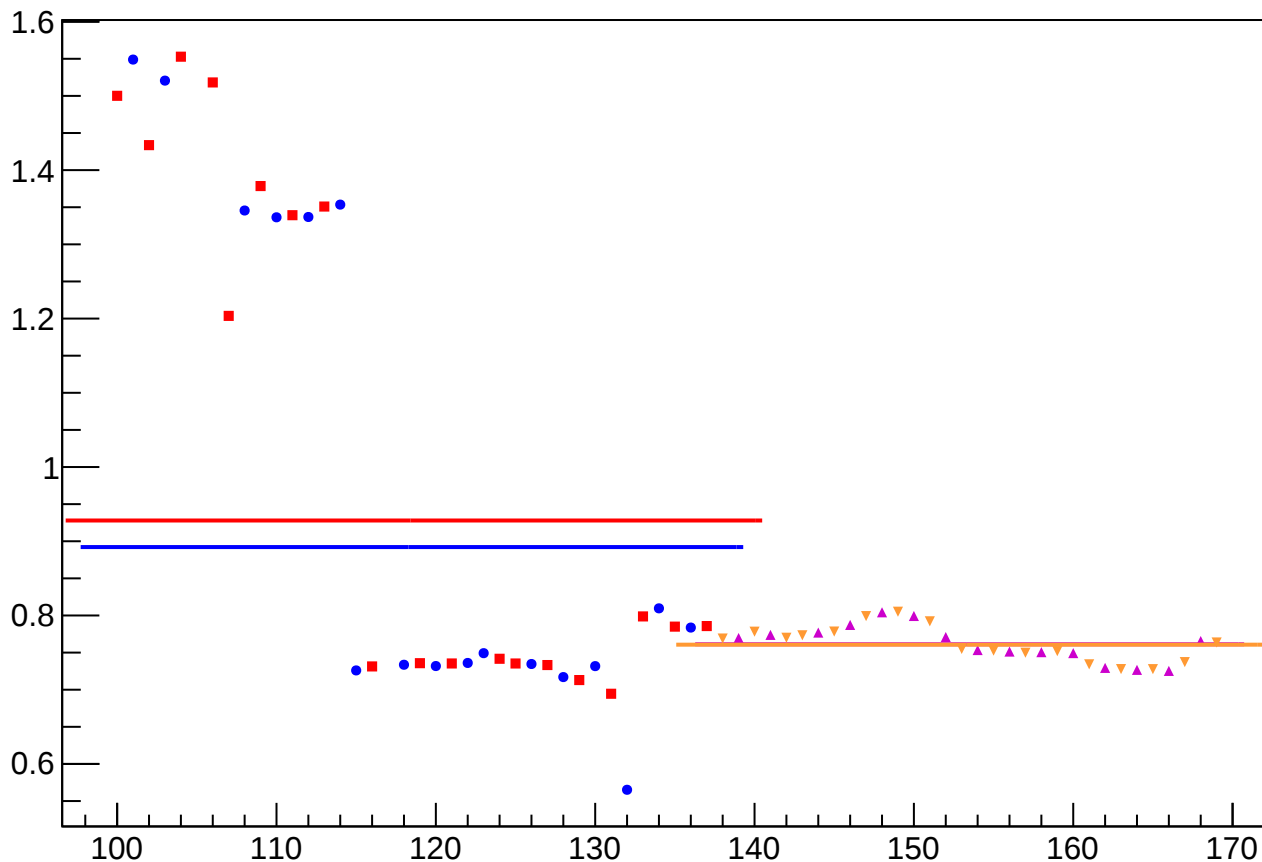
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1529705.2/31

Out: 0.020+/-0.000 χ^2/NDF : 1725872.1/35

All: 0.020+/-0.000 χ^2/NDF : 3256633.2/67

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.761 $\pm$ 0.000 χ^2/NDF :36081217.4/16

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 : 68649207.2/31

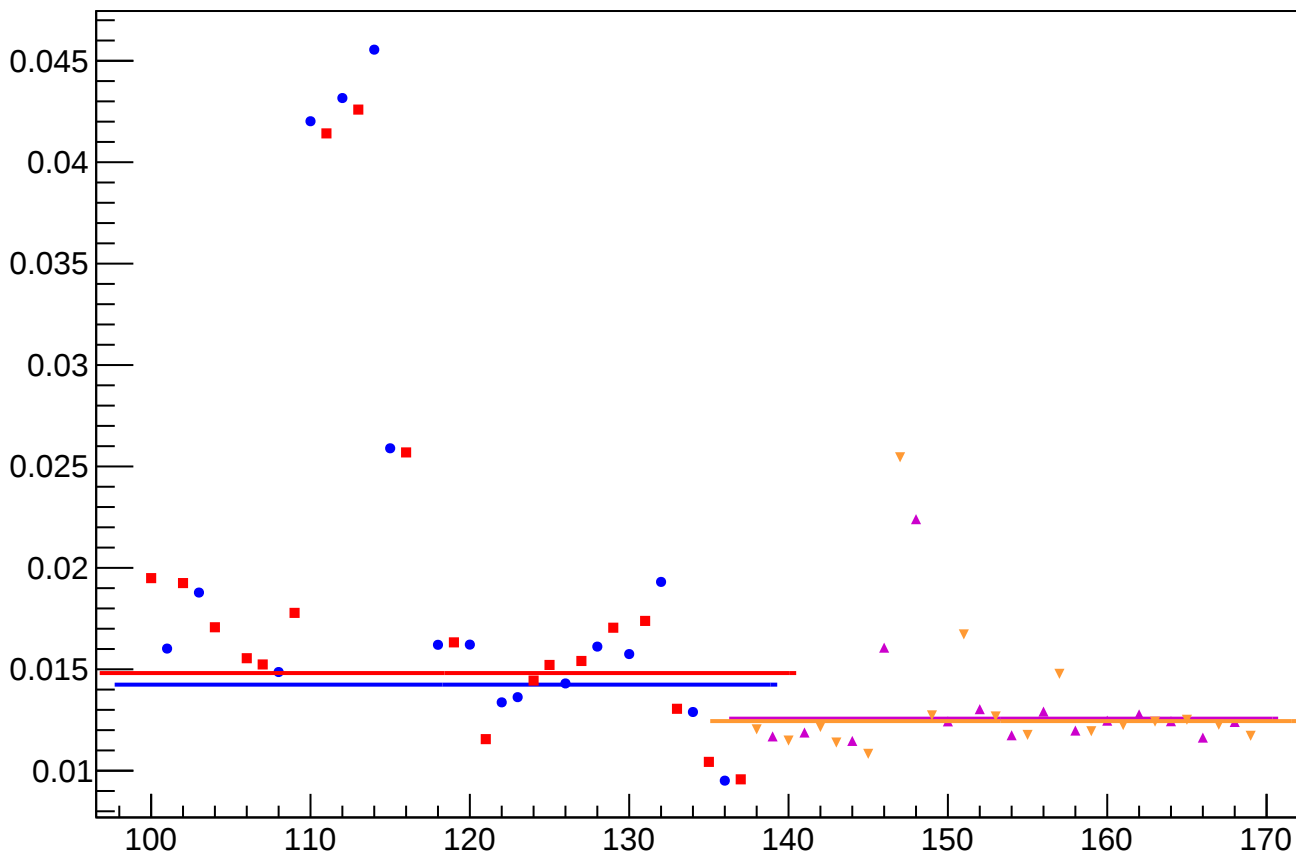
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.798 $\pm$ 0.000 χ^2/NDF :2788710935.5/31

Out: 0.804 $\pm$ 0.000 χ^2/NDF :3038360508.9/35

All: 0.801 $\pm$ 0.000 χ^2/NDF : 5828913013.0/67

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012+/-0.000 χ^2/NDF :590943.4/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.013+/-0.000 χ^2/NDF :413225.7/14

Left: 0.013+/-0.000 χ^2/NDF : 1005233.4/31

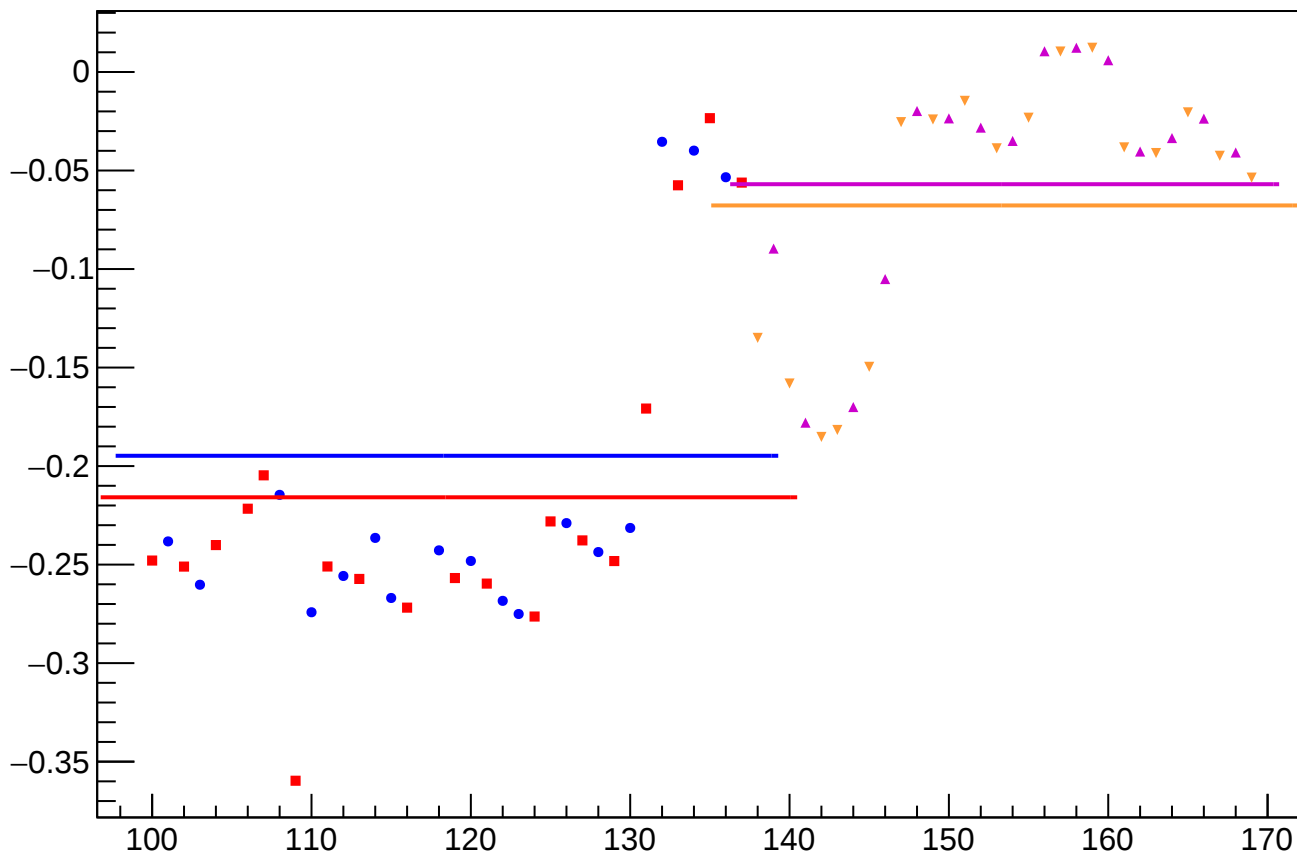
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF :1941223.3/31

Out: 0.013+/-0.000 χ^2/NDF :2091444.3/35

All: 0.013+/-0.000 χ^2/NDF : 4032721.1/67

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2 /NDF: 108656195.5/16

Left Out: -0.068+/-0.000 χ^2 /NDF:114853561.4/16

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: 213574688.9/31

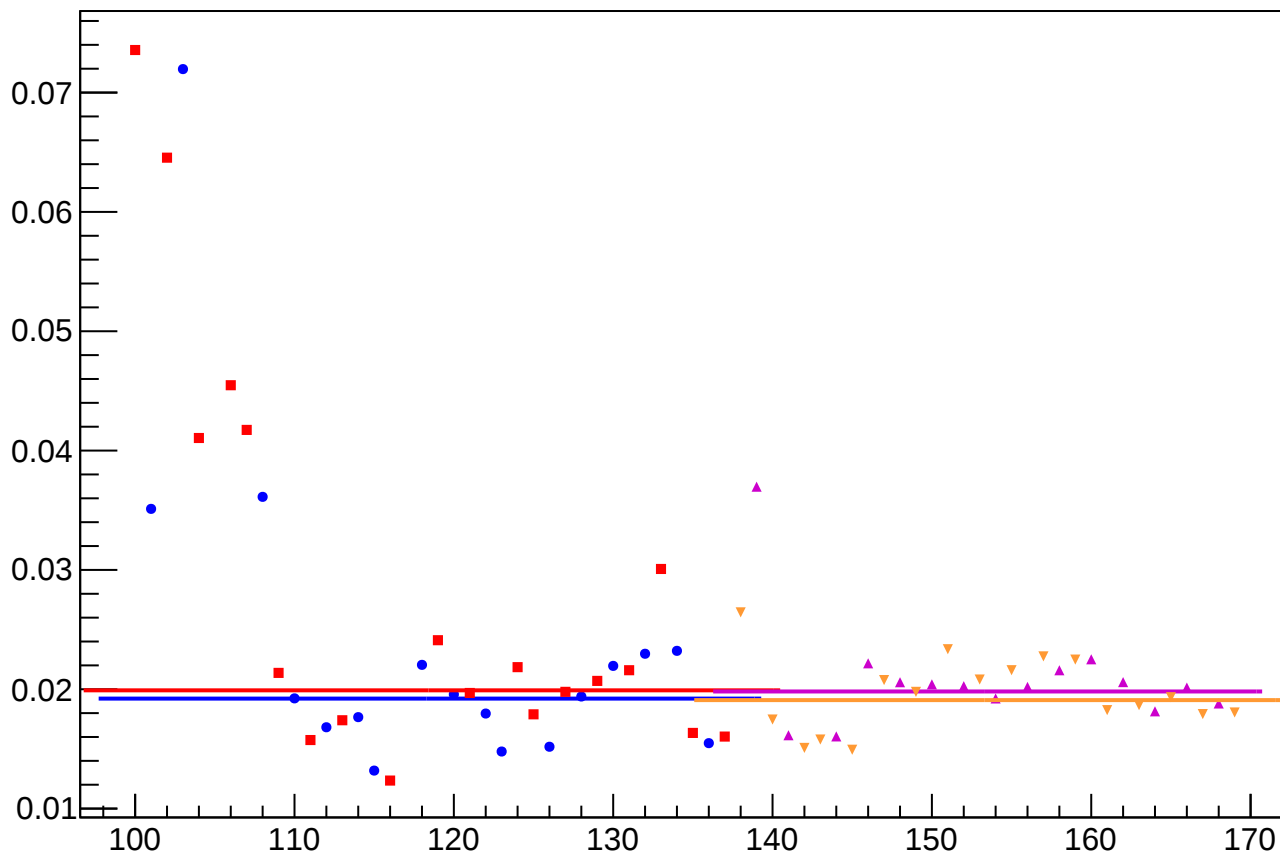
Right: -0.205+/-0.000 χ^2 /NDF: 223598203.8/35

In: -0.107+/-0.000 χ^2 /NDF:370546129.6/31

Out: -0.115+/-0.000 χ^2 /NDF:421989979.5/35

All: -0.111+/-0.000 χ^2 /NDF: 793888778.3/67

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 : 431680.9/16

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 : 929960.2/31

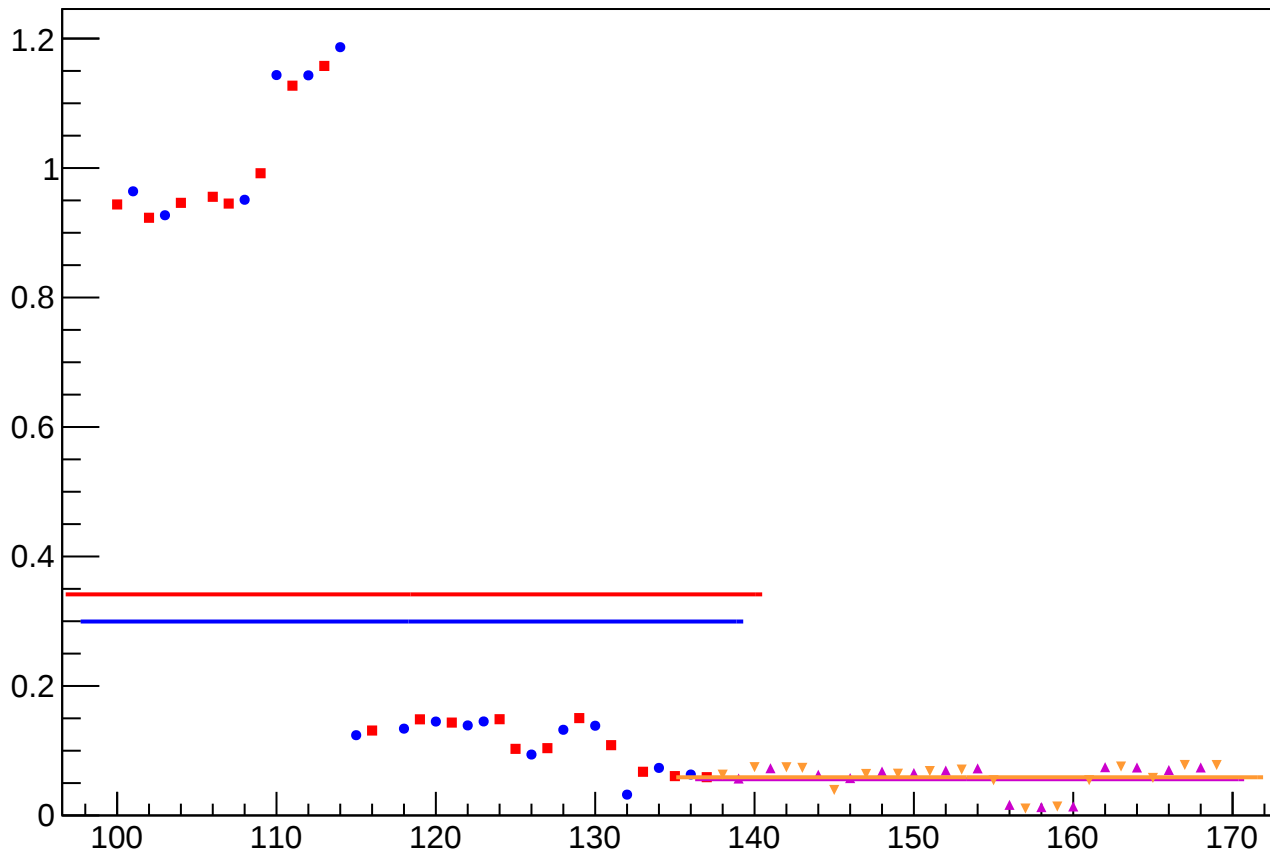
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.020+/-0.000 χ^2/NDF : 1668056.3/31

Out: 0.019+/-0.000 χ^2/NDF : 1890581.4/35

All: 0.019+/-0.000 χ^2/NDF : 3561002.1/67

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.059+/-0.000 χ^2/NDF : 43391245.8/16

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: 0.058+/-0.000 χ^2/NDF : 94780784.6/31

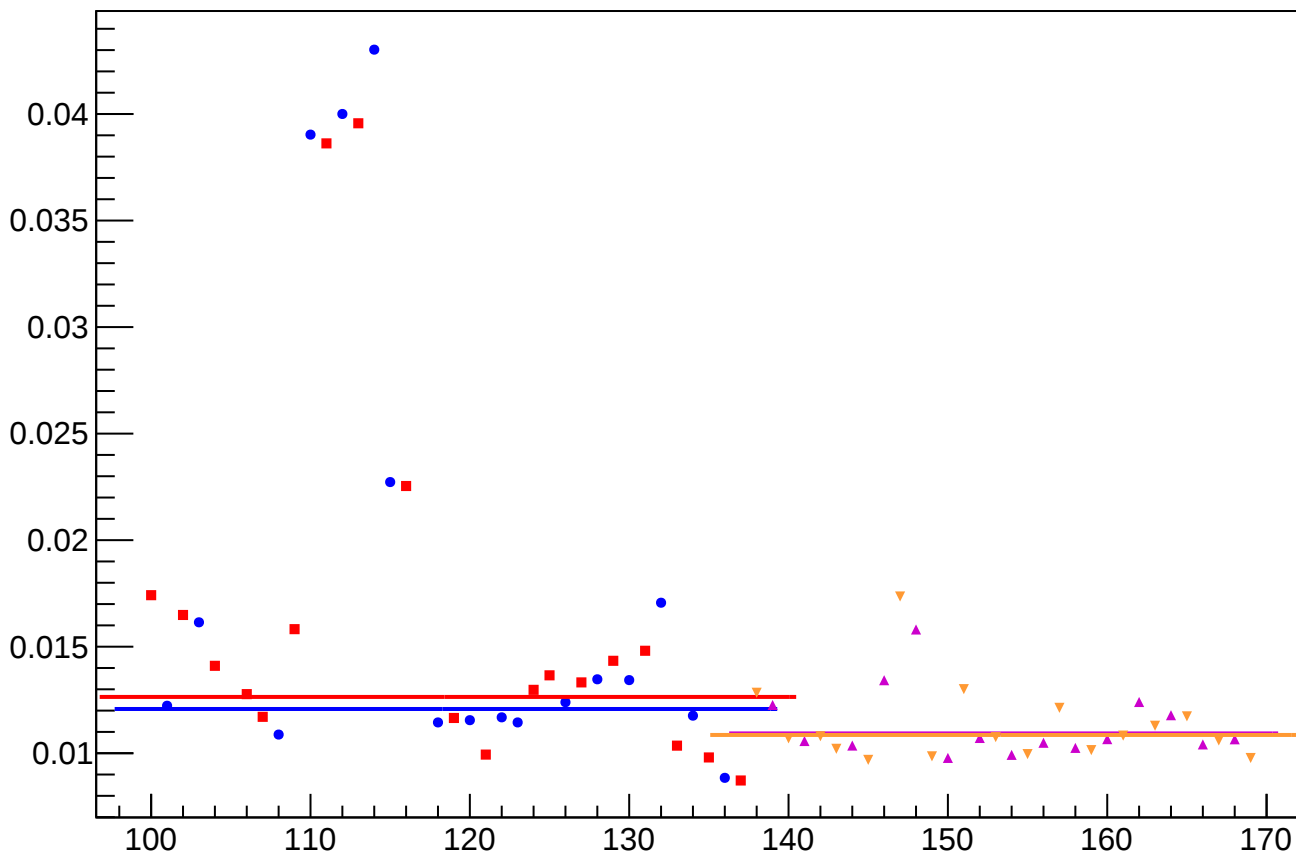
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.128+/-0.000 χ^2/NDF : 6841452085.7/31

Out: 0.134+/-0.000 χ^2/NDF : 7654761179.3/35

All: 0.131+/-0.000 χ^2/NDF : 14498729661.4/6

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:392087.4/16

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: 695343.1/31

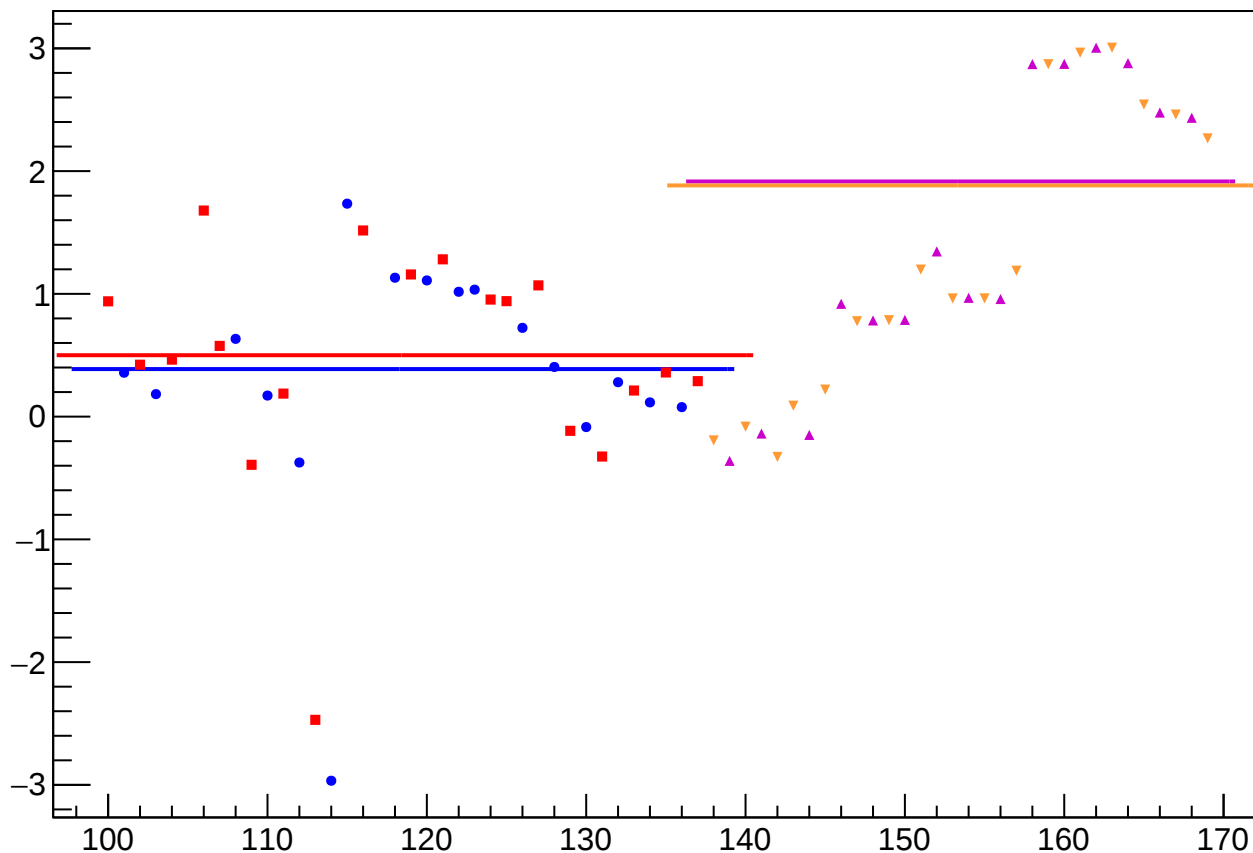
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1656815.3/31

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1802264.3/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3459617.3/67

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.883+/-0.000 χ^2/NDF :26442569669.5/16

Right Out: 0.500+/-0.000 χ^2/NDF : 983360928.1/18

Left In: 1.916+/-0.000 χ^2/NDF :27754313046.6/14

Left: 1.900+/-0.000 χ^2/NDF : 54212984655.6/31

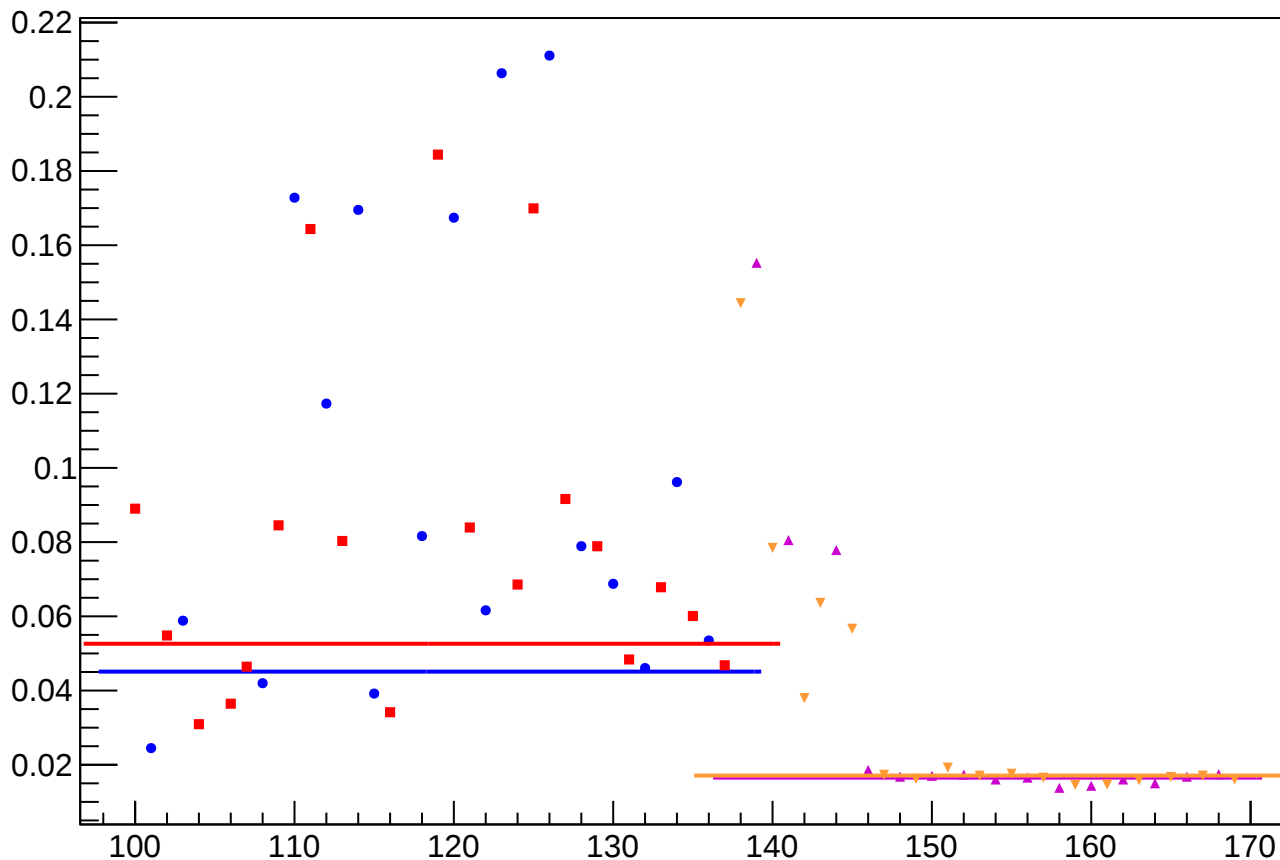
Right: 0.439+/-0.000 χ^2/NDF : 1241544973.3/35

In: 1.834+/-0.000 χ^2/NDF :31869110225.0/31

Out: 1.820+/-0.000 χ^2/NDF :30149964106.2/35

All: 1.827+/-0.000 χ^2/NDF : 62022488540.5/6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2736212.9/16

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.017+/-0.000 χ^2/NDF : 2340212.7/14

Left: 0.017+/-0.000 χ^2/NDF : 5086304.2/31

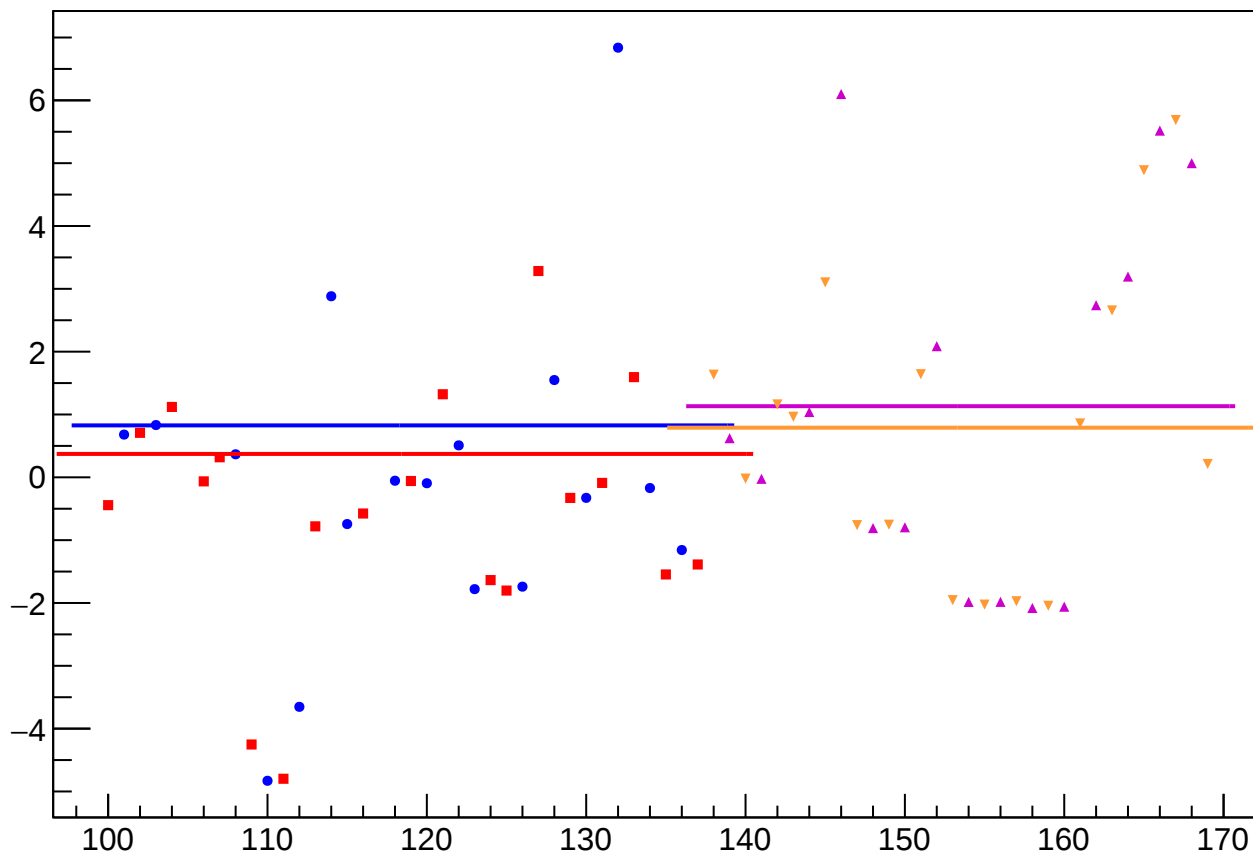
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7889960.8/31

Out: 0.019+/-0.000 χ^2/NDF : 8519801.4/35

All: 0.018+/-0.000 χ^2/NDF : 16424731.8/67

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.960+/-0.000

χ^2/NDF : 841218541946.5/31

Left Out: 0.790+/-0.000

χ^2/NDF : 363188765618.4/16

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

In: 1.110+/-0.000

χ^2/NDF : 486379624261.2/31

Out: 0.763+/-0.000

χ^2/NDF : 368732196240.6/35

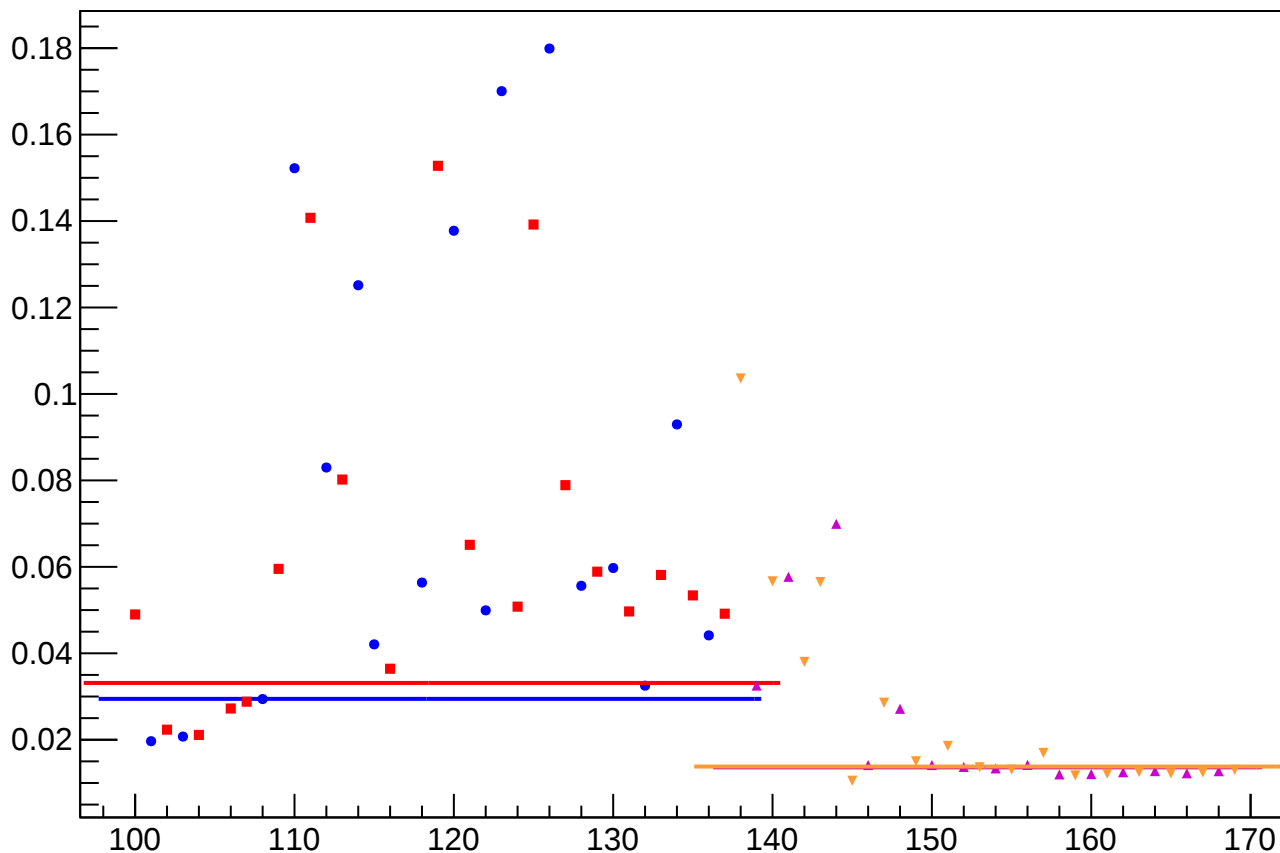
Left In: 1.132+/-0.000

χ^2/NDF : 475102866933.6/14

All: 0.936+/-0.000

χ^2/NDF : 858345425272.7

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 :2842134.8/16

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 : 4713732.4/31

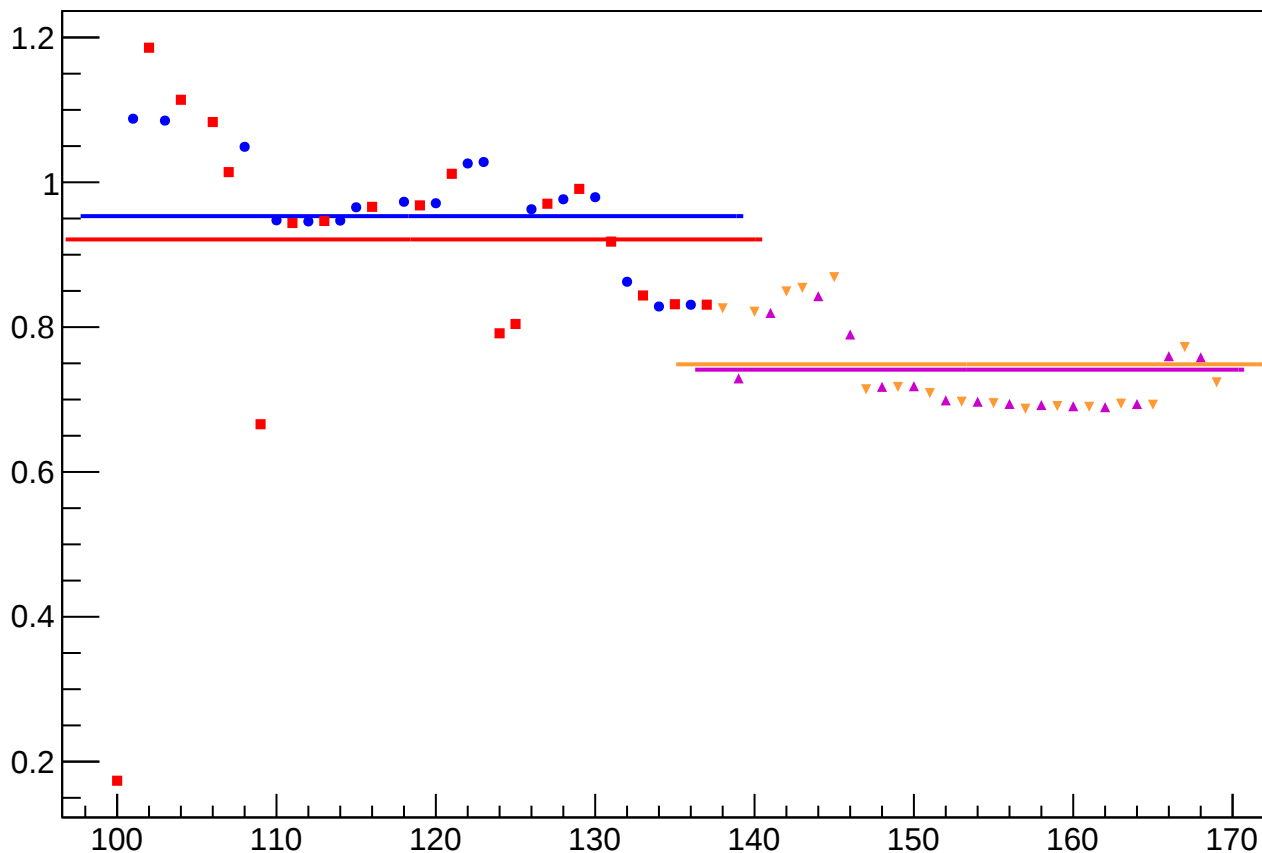
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6754595.1/31

Out: 0.015+/-0.000 χ^2/NDF :8386333.7/35

All: 0.015+/-0.000 χ^2/NDF : 15145380.0/67

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.749+/-0.000 χ^2/NDF : 262142414.8/16

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.741+/-0.000 χ^2/NDF : 156428304.7/14

Left: 0.745+/-0.000 χ^2/NDF : 420133349.3/31

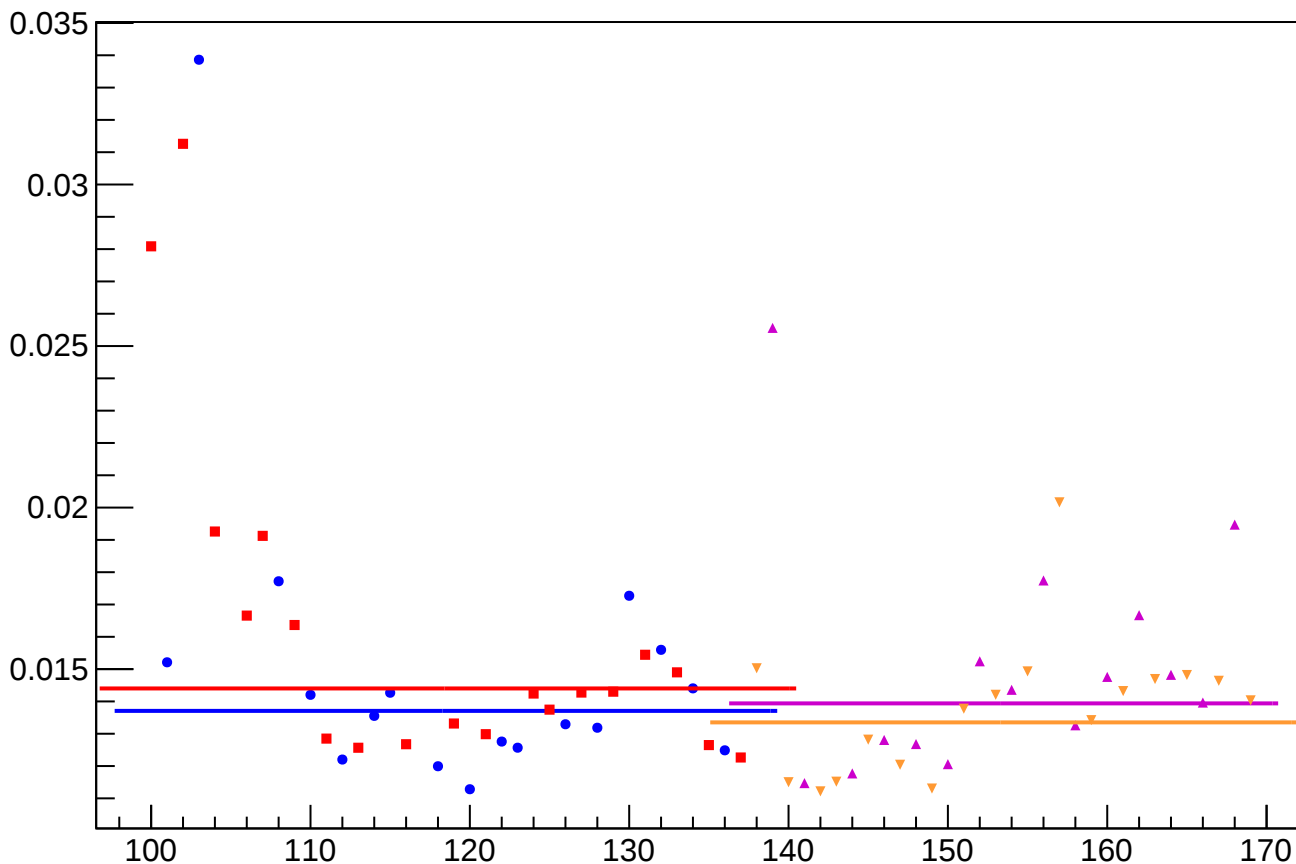
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.820+/-0.000 χ^2/NDF : 1208277682.4/31

Out: 0.804+/-0.000 χ^2/NDF : 1227021013.8/35

All: 0.812+/-0.000 χ^2/NDF : 2445531333.3/67

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 369989.9/16

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 702628.5/14

Left: 0.014+/-0.000 χ^2/NDF : 1092239.0/31

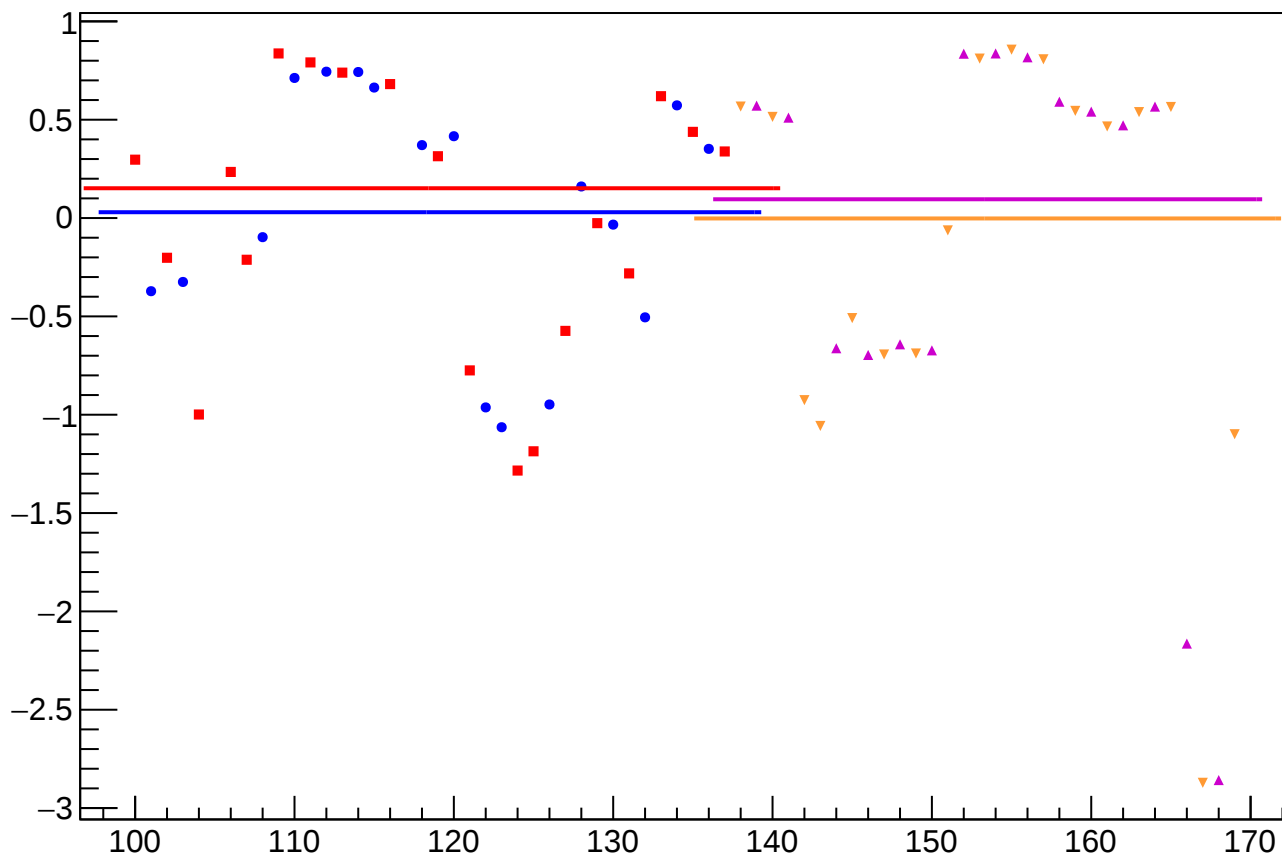
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1251046.0/31

Out: 0.014+/-0.000 χ^2/NDF : 915588.8/35

All: 0.014+/-0.000 χ^2/NDF : 2168940.2/67

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: -0.002+/-0.000 χ^2/NDF : 67682663350.0/16

Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.095+/-0.000 χ^2/NDF : 71830182361.6/14

Left: 0.045+/-0.000 χ^2/NDF : 139866054801.6/31

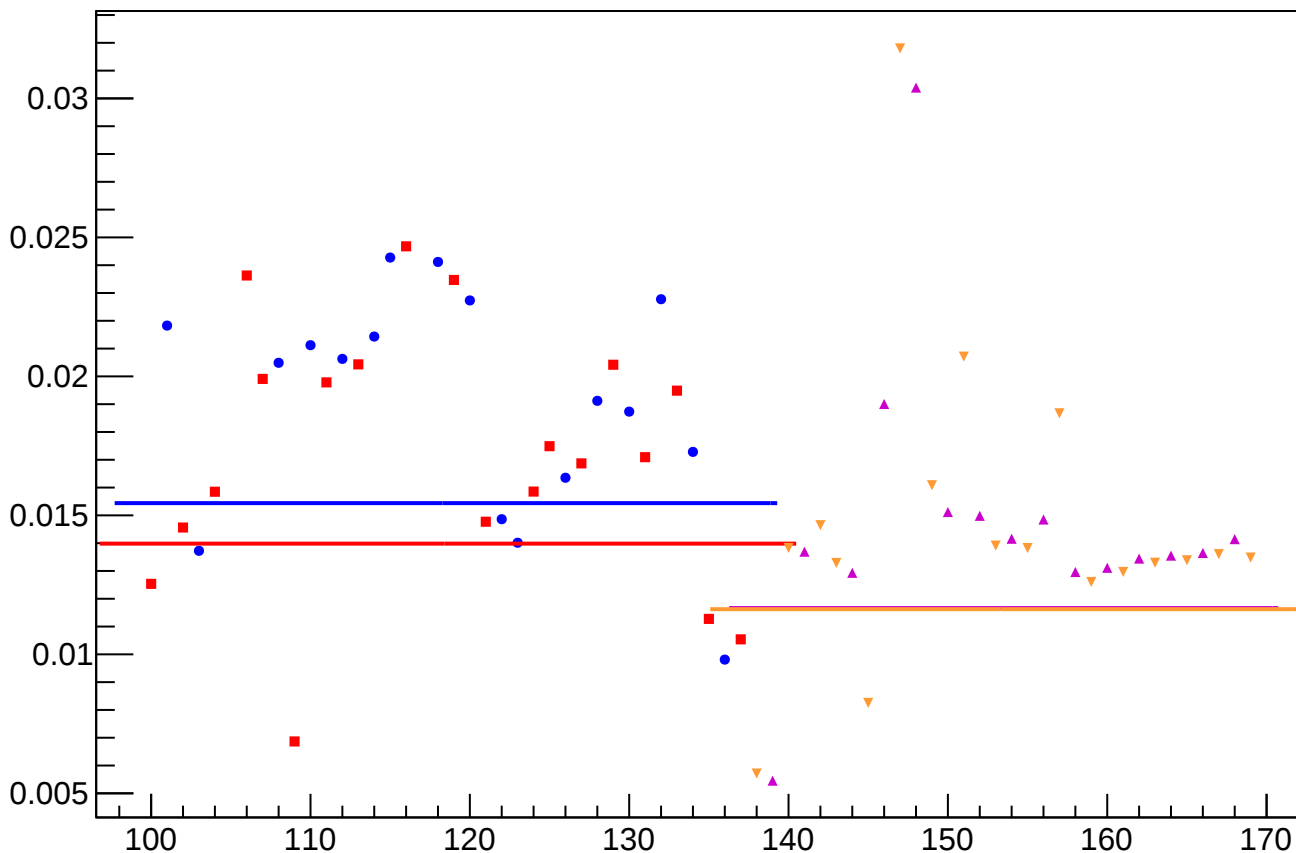
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.079+/-0.000 χ^2/NDF : 78202131429.1/31

Out: 0.039+/-0.000 χ^2/NDF : 80837431541.6/35

All: 0.058+/-0.000 χ^2/NDF : 159118294350.8

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 : 2970543.0/16

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 : 5887495.2/31

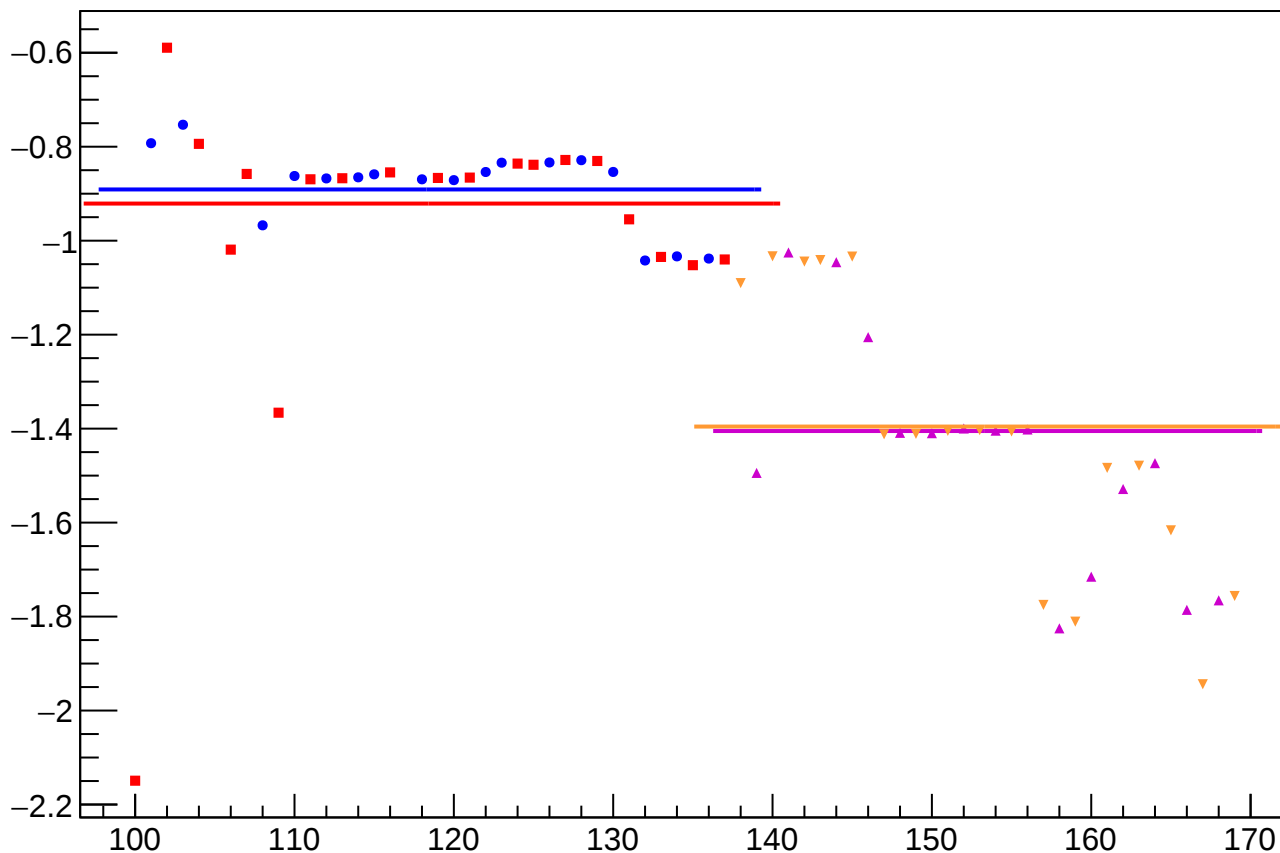
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4586097.5/31

Out: 0.012+/-0.000 χ^2/NDF : 4763797.6/35

All: 0.012+/-0.000 χ^2/NDF : 9361784.5/67

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.396+/-0.000 χ^2/NDF : 715166178.6/16

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: -1.400+/-0.000 χ^2/NDF : 1224650059.1/31

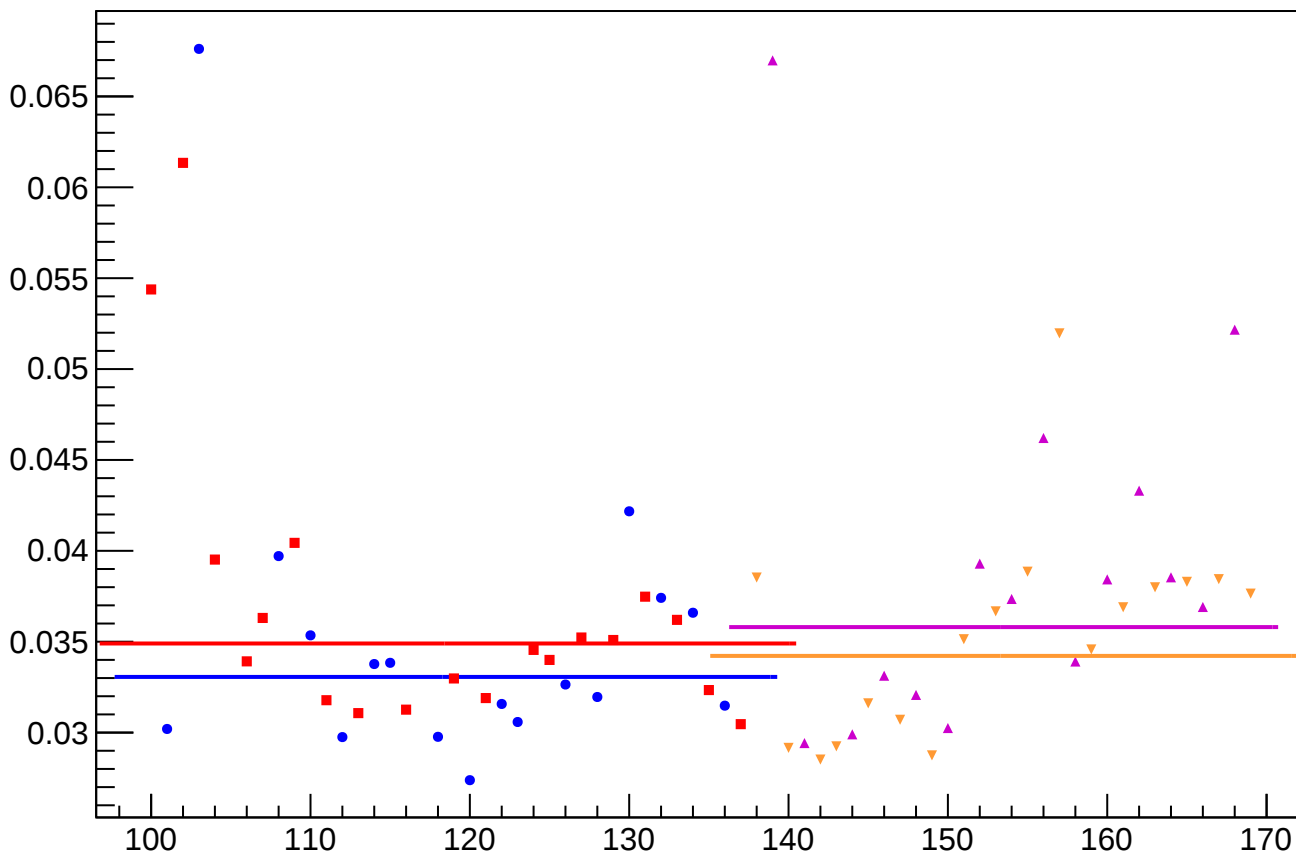
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.197+/-0.000 χ^2/NDF : 1394047814.5/31

Out: -1.228+/-0.000 χ^2/NDF : 1582547019.1/35

All: -1.213+/-0.000 χ^2/NDF : 2983169742.9/6

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 : 418954.8/16

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 : 1226137.9/31

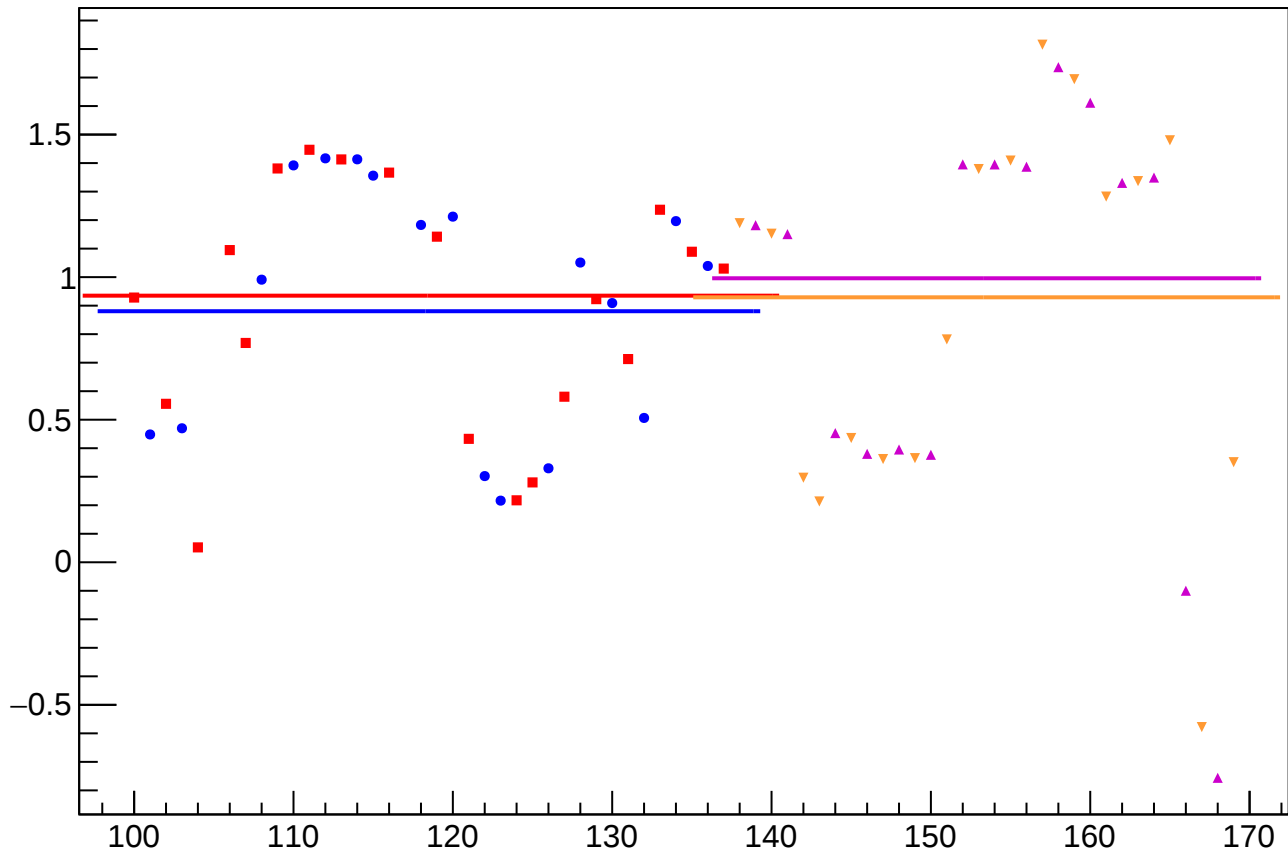
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF : 1243131.4/31

Out: 0.034+/-0.000 χ^2/NDF : 696273.2/35

All: 0.035+/-0.000 χ^2/NDF : 1940160.9/67

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 0.929 $\pm$ 0.000 χ^2 /NDF: 56390020321.9/16

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: 0.961 $\pm$ 0.000 χ^2 /NDF: 113820177217.3/31

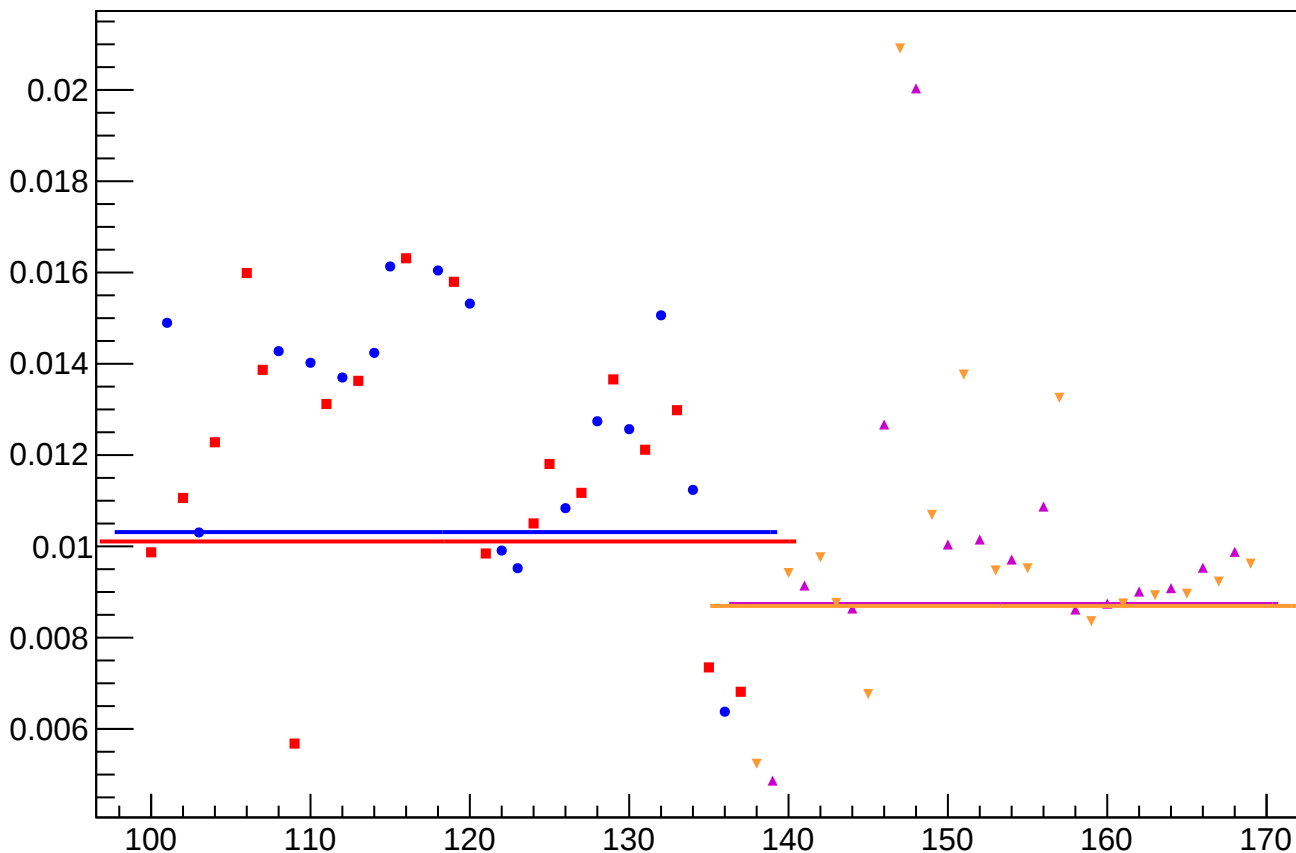
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 0.964 $\pm$ 0.000 χ^2 /NDF: 64020942346.9/31

Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 66224932814.7/35

All: 0.947 $\pm$ 0.000 χ^2 /NDF: 130352307134.7

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 :1678642.0/16

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 : 3270763.7/31

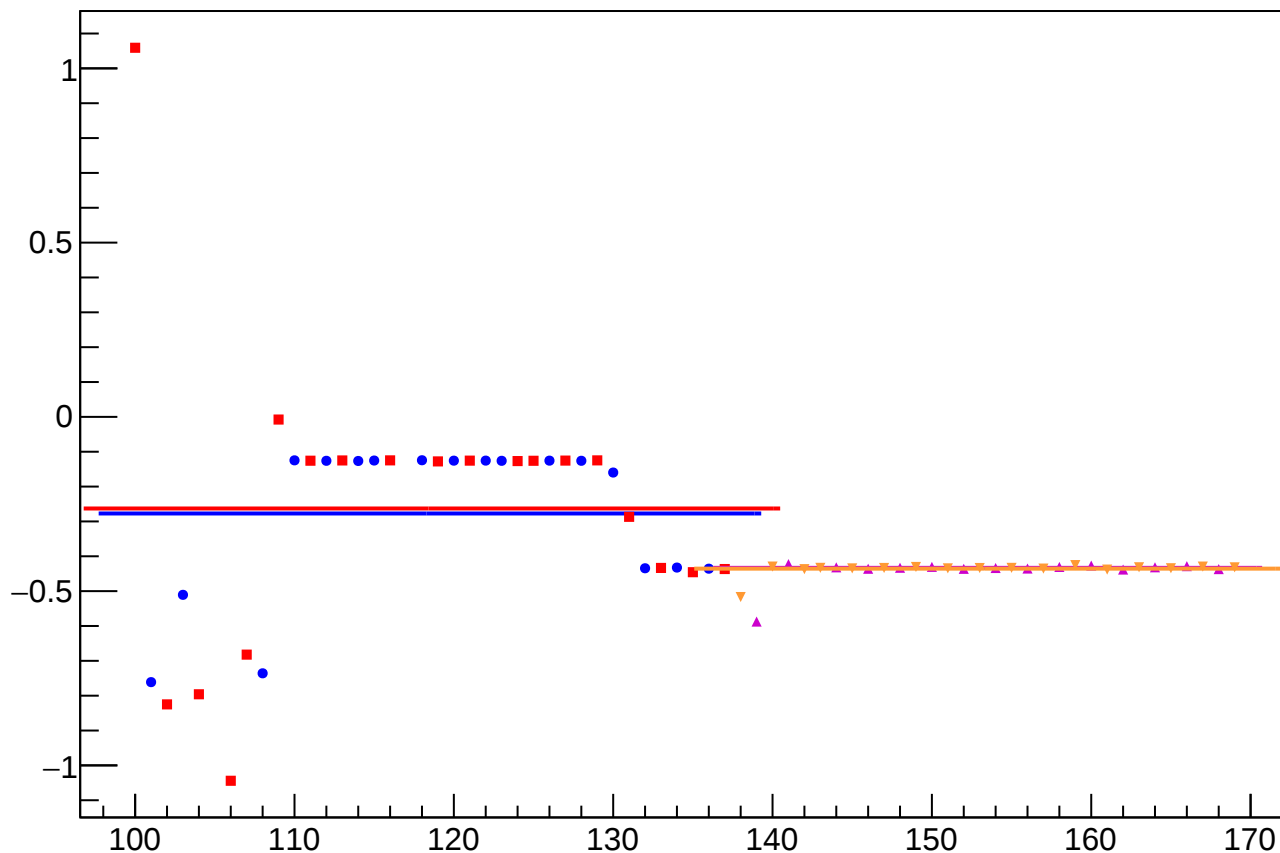
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3011864.9/31

Out: 0.009+/-0.000 χ^2/NDF :3021757.1/35

All: 0.009+/-0.000 χ^2/NDF : 6035188.3/67

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277+/-0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.435+/-0.000 χ^2/NDF : 25982322.7/16

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 : 49804879.9/31

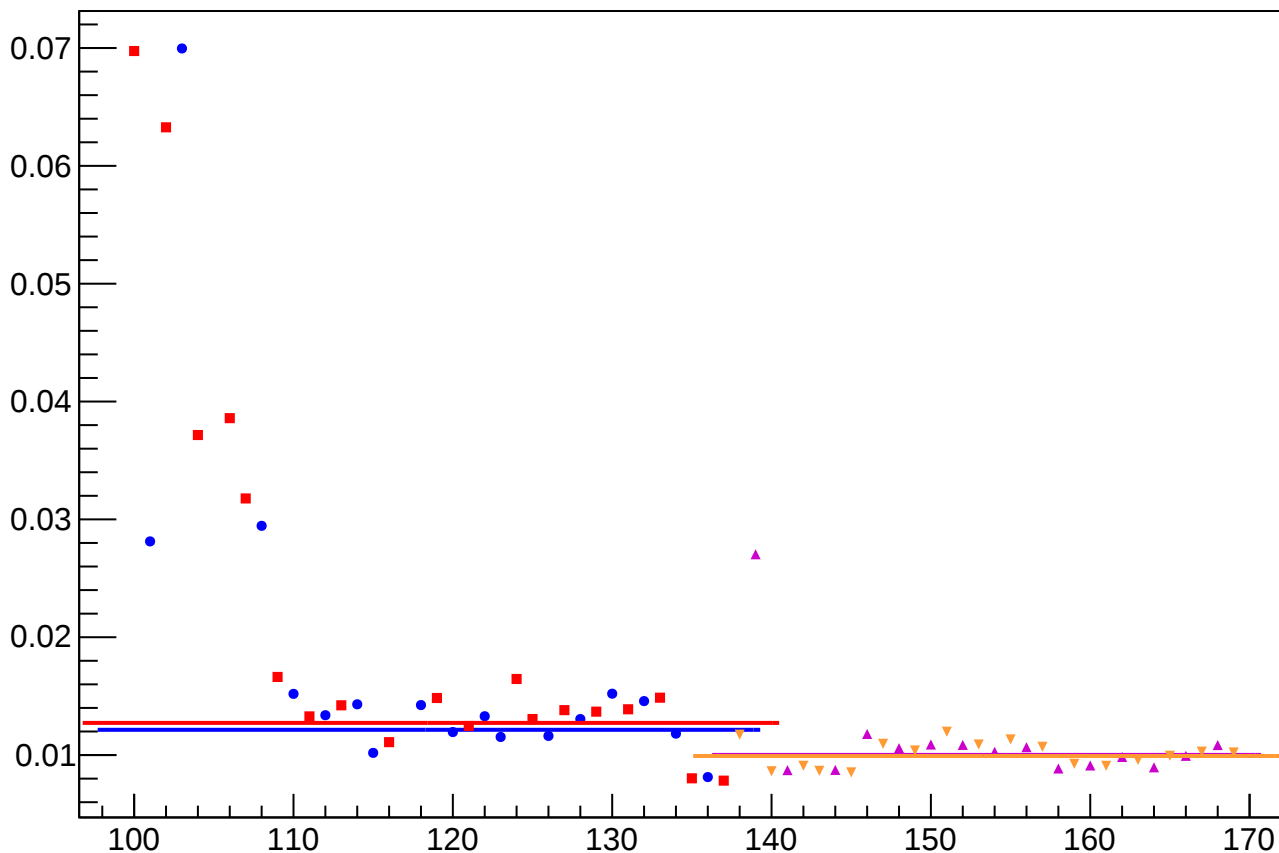
Right: -0.270+/-0.000 χ^2/NDF : 1952121842.2/35

In: -0.394+/-0.000 χ^2/NDF : 1548999436.0/31

Out: -0.398+/-0.000 χ^2/NDF : 1731169478.3/35

All: -0.396+/-0.000 χ^2/NDF : 3280971677.2/6

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:227553.2/16

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: 931736.9/31

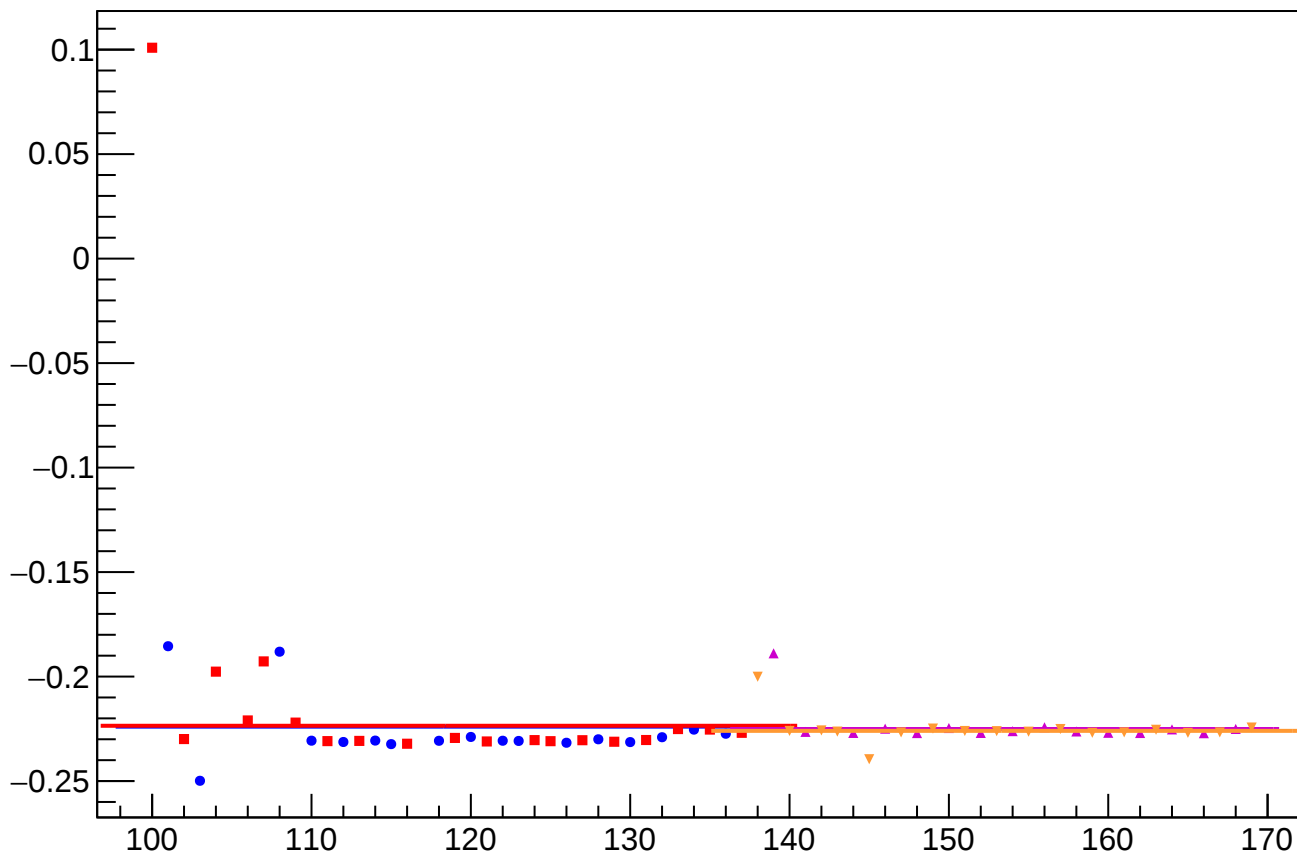
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2648724.6/31

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2565692.1/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5214431.5/67

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 : 20686247.9/16

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 : 35185618.2/31

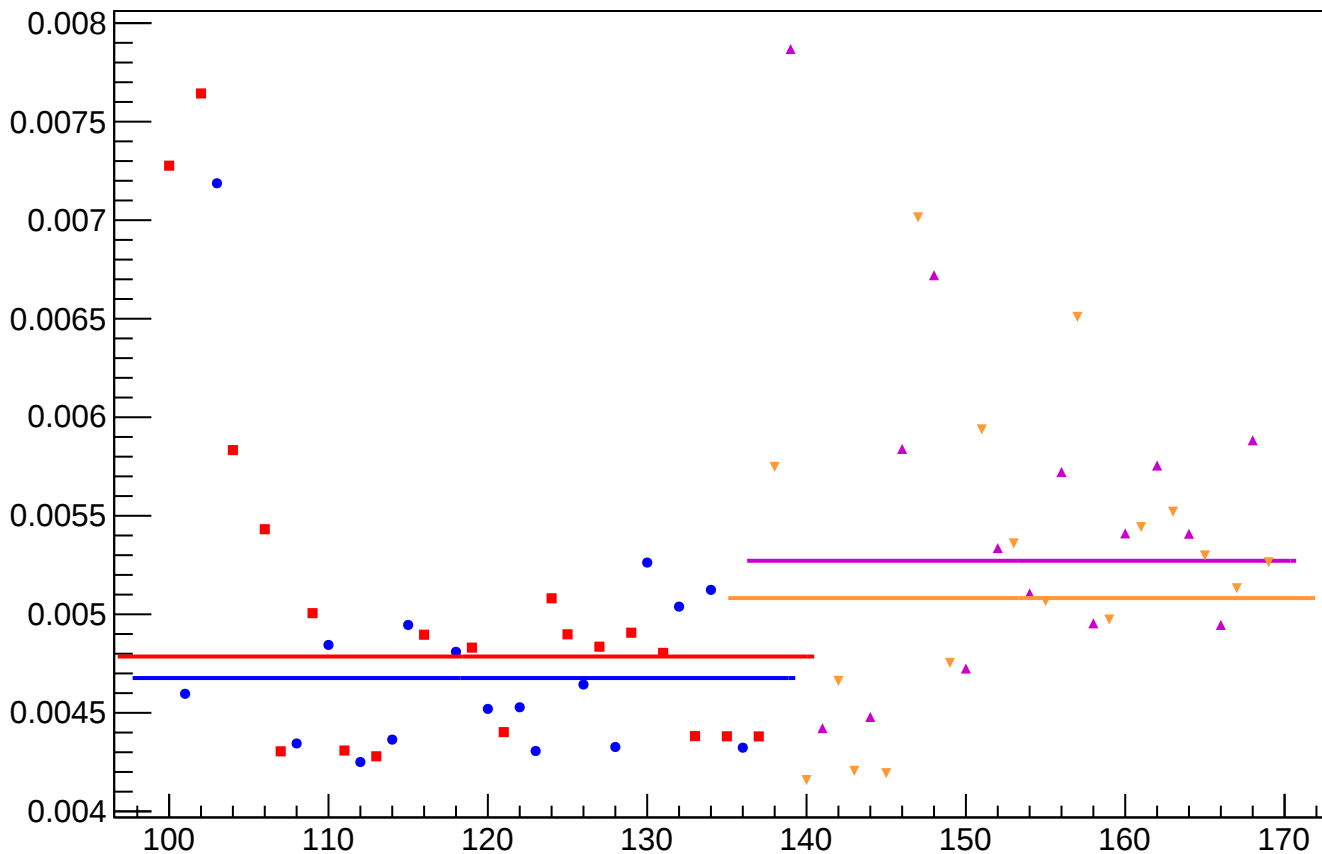
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89255979.5/31

Out: -0.225+/-0.000 χ^2/NDF : 189834055.9/35

All: -0.225+/-0.000 χ^2/NDF : 279154217.9/67

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 : 449695.3/16

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 : 869395.3/31

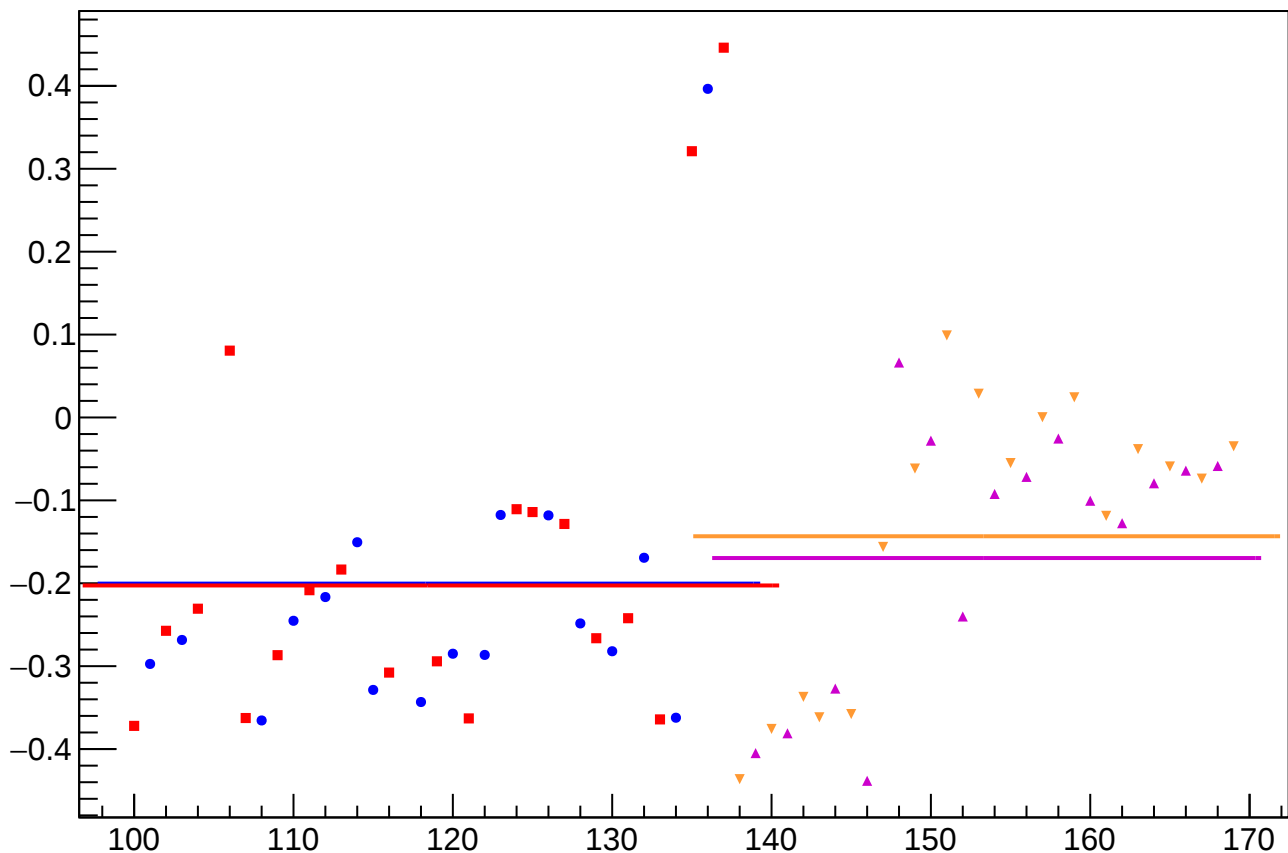
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 700694.2/31

Out: 0.005+/-0.000 χ^2/NDF : 728240.4/35

All: 0.005+/-0.000 χ^2/NDF : 1431156.5/67

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.143 ± 0.000 $\chi^2/\text{NDF}: 11496164916.3/16$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.170 ± 0.000 $\chi^2/\text{NDF}: 8231153578.1/14$

Left: -0.156 ± 0.000 $\chi^2/\text{NDF}: 19859686397.7/31$

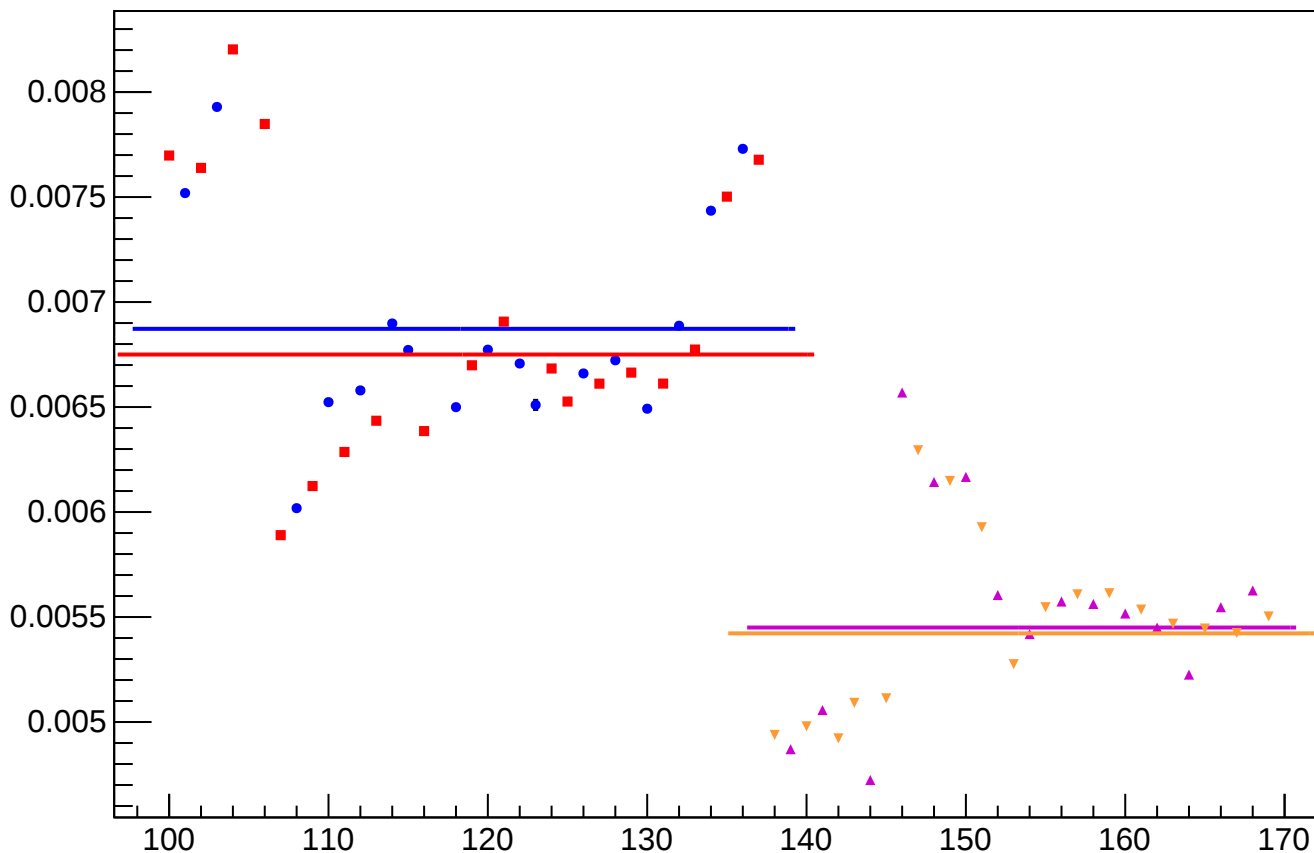
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.178 ± 0.000 $\chi^2/\text{NDF}: 14300640380.3/31$

Out: -0.159 ± 0.000 $\chi^2/\text{NDF}: 16911326505.1/35$

All: -0.168 ± 0.000 $\chi^2/\text{NDF}: 31303477988.6/70$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :105925.9/16

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :147960.3/14

Left: 0.005+/-0.000 χ^2/NDF : 254180.1/31

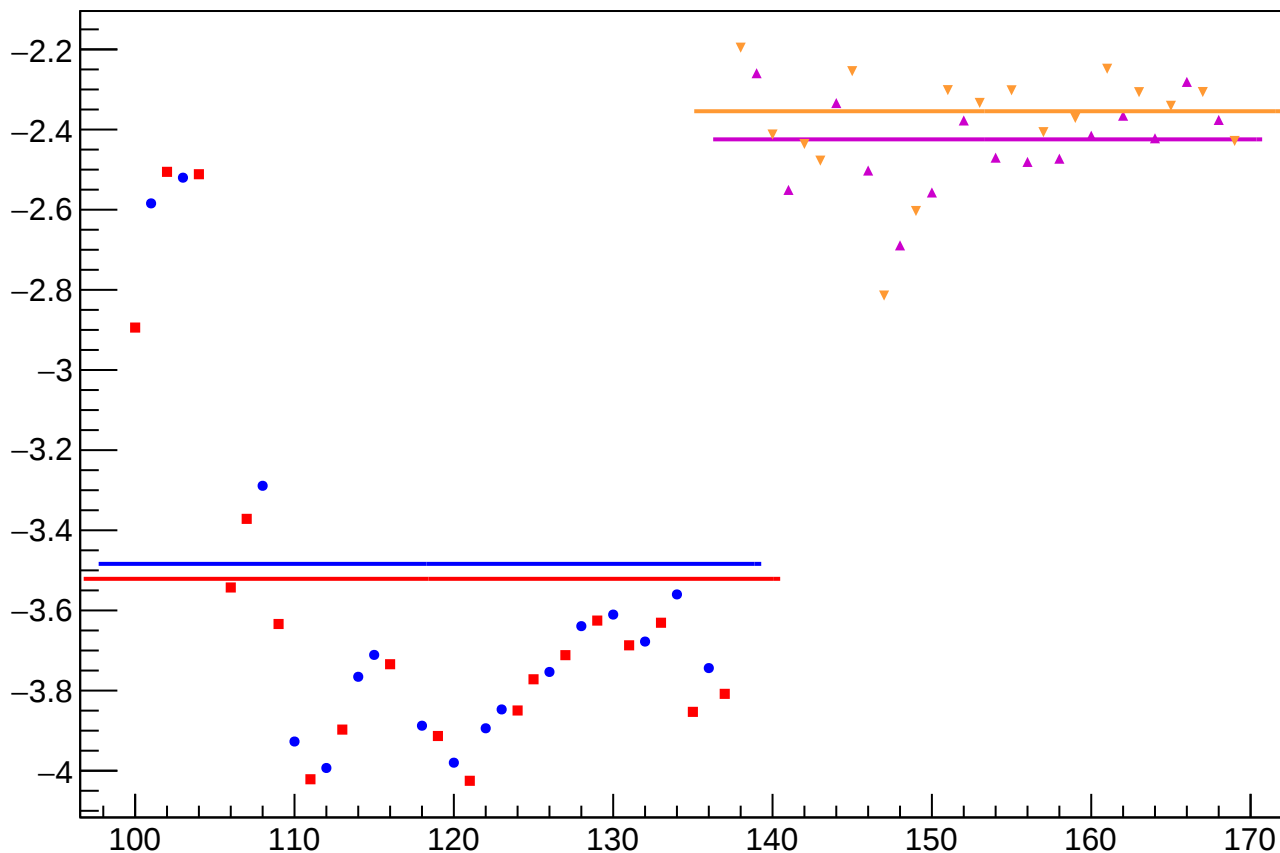
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :634039.9/31

Out: 0.006+/-0.000 χ^2/NDF :598260.6/35

All: 0.006+/-0.000 χ^2/NDF : 1234074.9/67

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.354+/-0.000 χ^2/NDF : 1738784216.5/16

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: -2.388+/-0.000 χ^2/NDF : 3223530543.1/31

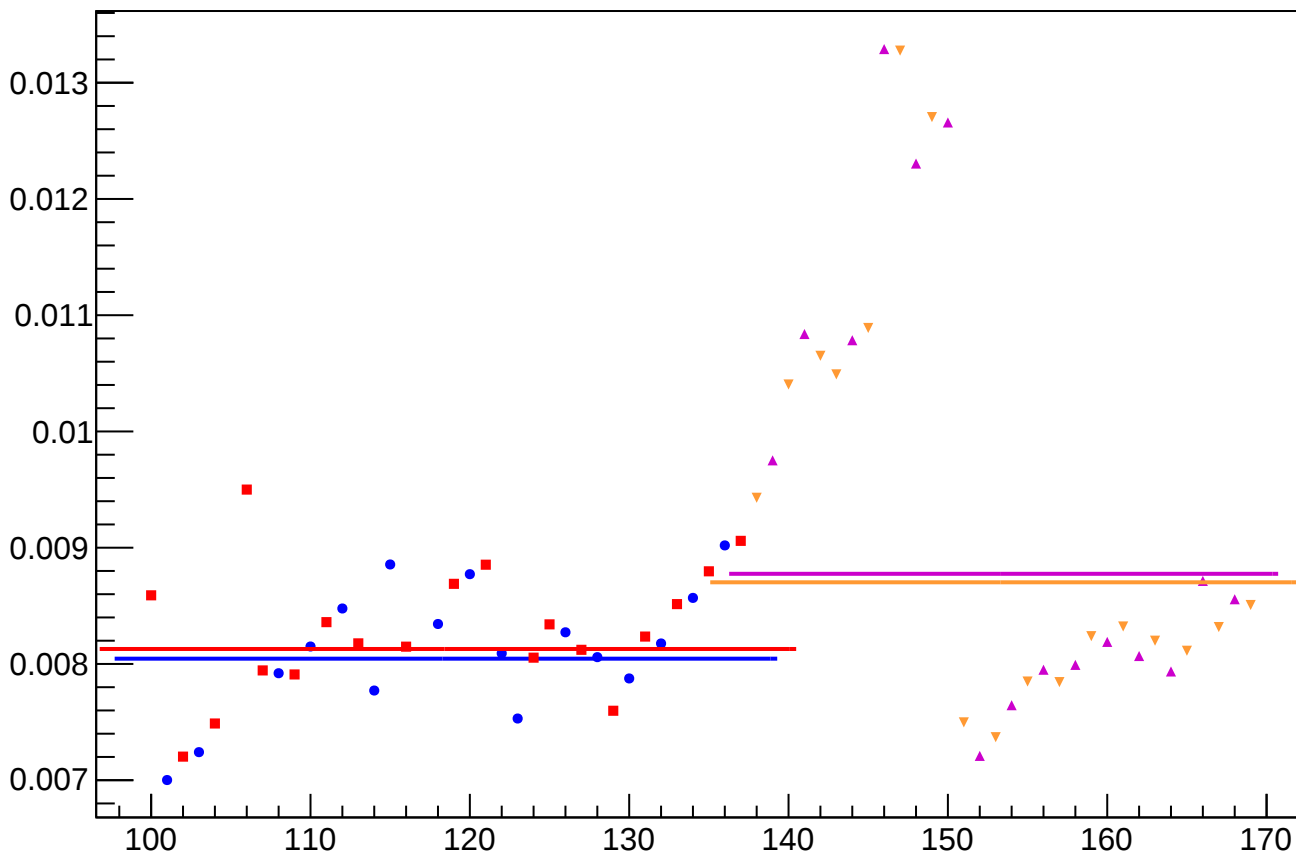
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.870+/-0.000 χ^2/NDF : 93707266833.2/31

Out: -2.822+/-0.000 χ^2/NDF : 111857578787.6/35

All: -2.845+/-0.000 χ^2/NDF : 205847230903.2

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 : 593987.0/16

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 : 1294700.7/31

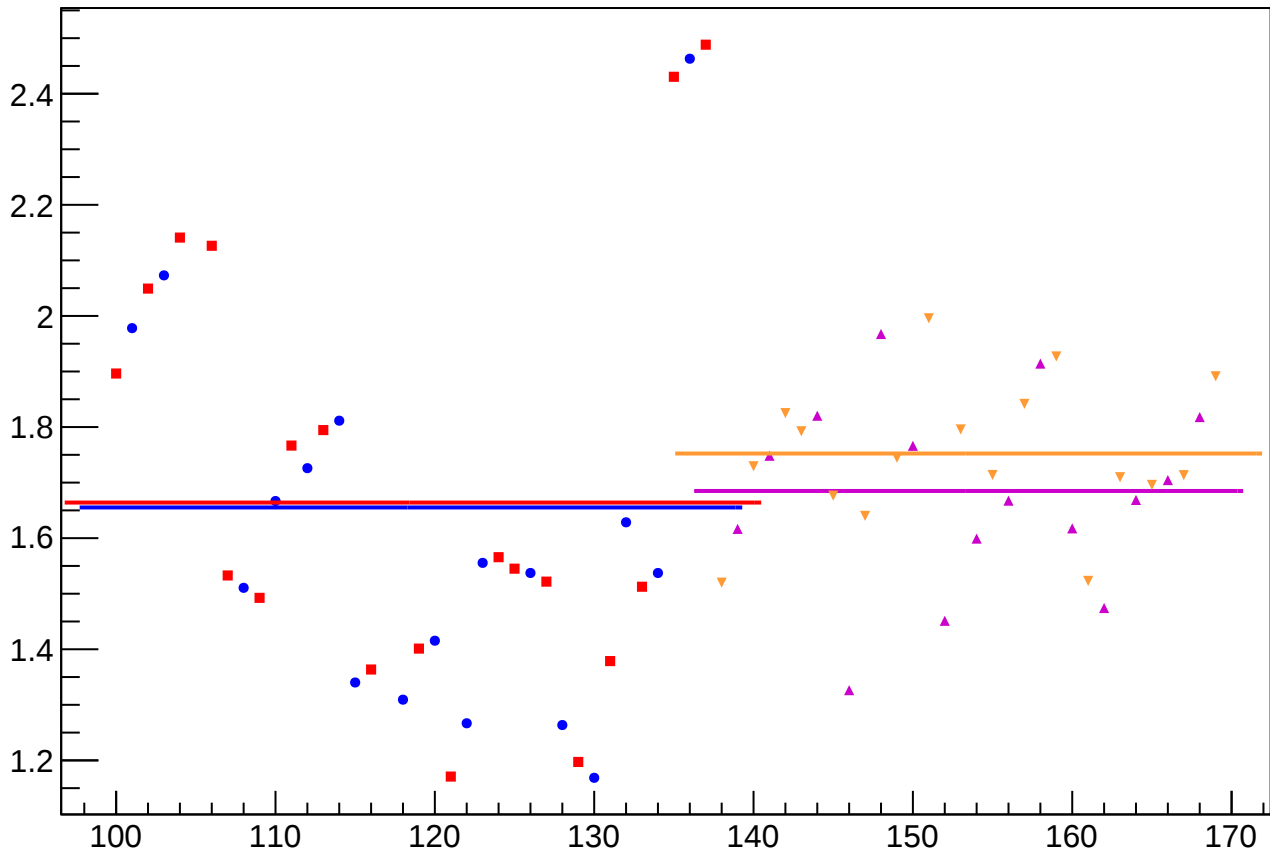
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 834059.7/31

Out: 0.008+/-0.000 χ^2/NDF : 691889.0/35

All: 0.008+/-0.000 χ^2/NDF : 1525952.4/67

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.752 $\pm$ 0.000 χ^2/NDF : 1680088956.4/16

Right Out: 1.664 $\pm$ 0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.685 $\pm$ 0.000 χ^2/NDF : 2395070756.7/14

Left: 1.720 $\pm$ 0.000 χ^2/NDF : 4302406887.5/31

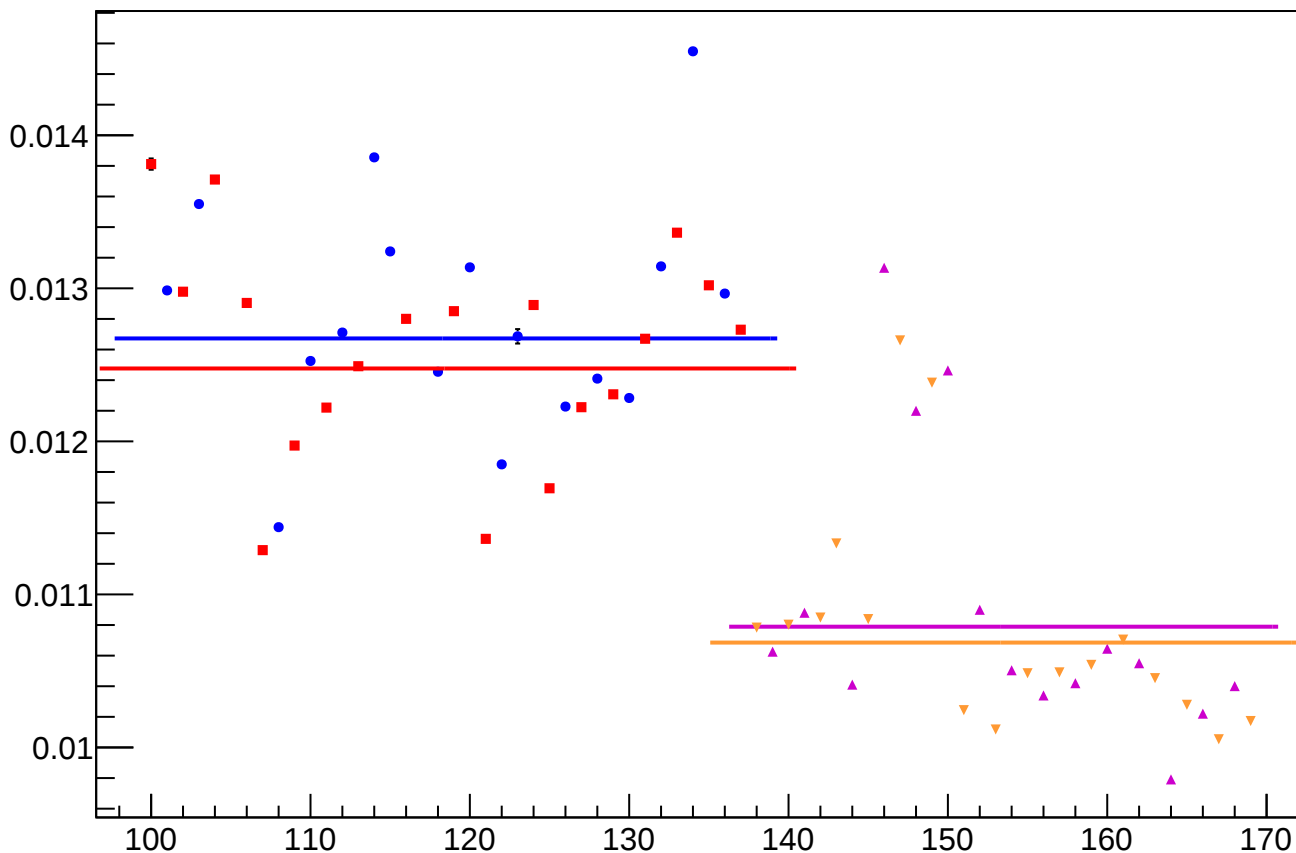
Right: 1.660 $\pm$ 0.000 χ^2/NDF : 12422392259.9/35

In: 1.676 $\pm$ 0.000 χ^2/NDF : 8896711898.9/31

Out: 1.726 $\pm$ 0.000 χ^2/NDF : 7867404269.7/35

All: 1.702 $\pm$ 0.000 χ^2/NDF : 16944238534.5/66

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 : 89257.6/16

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 : 210028.4/31

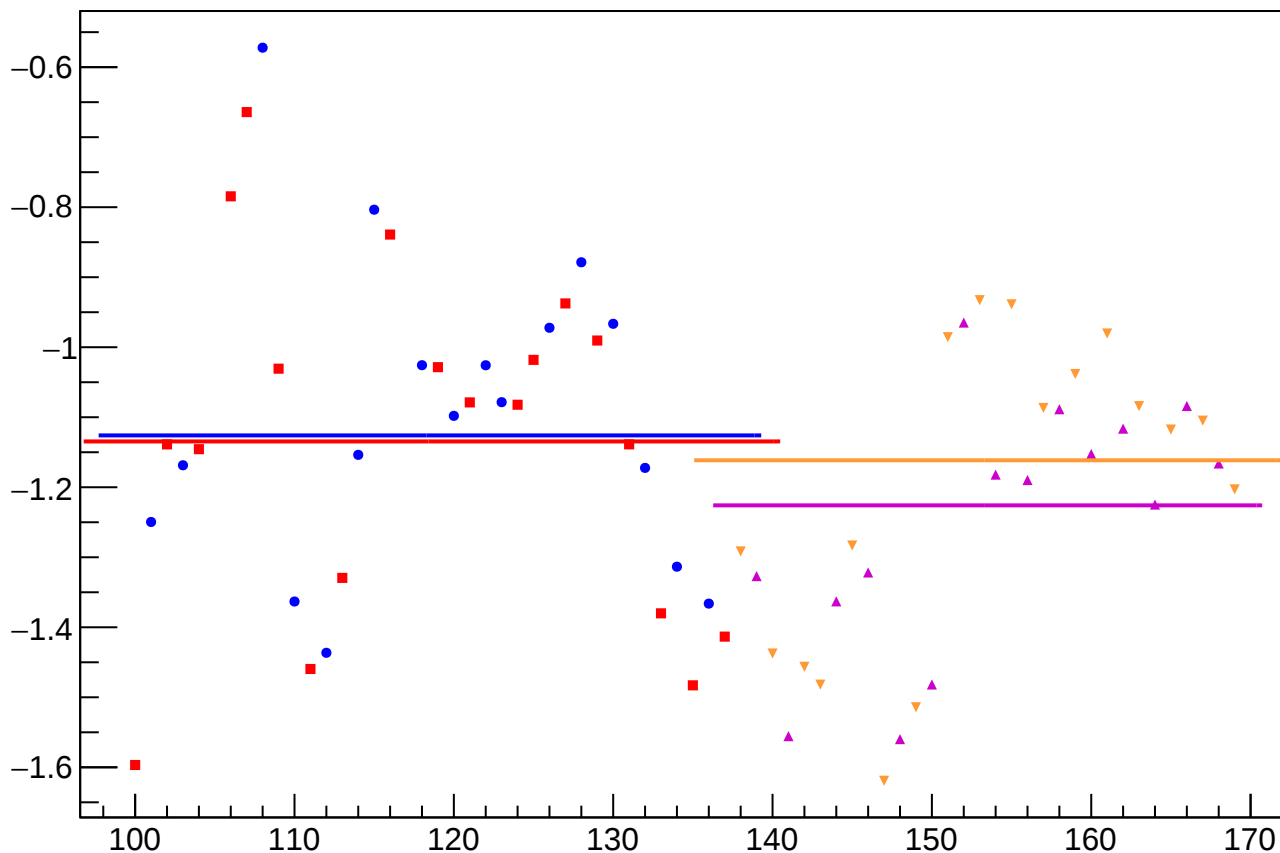
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF : 354087.0/31

Out: 0.011+/-0.000 χ^2/NDF : 328384.8/35

All: 0.011+/-0.000 χ^2/NDF : 685328.2/67

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.161+/-0.000 χ^2/NDF : 7113658846.6/16

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.226+/-0.000 χ^2/NDF : 4458475636.9/14

Left: -1.192+/-0.000 χ^2/NDF : 11927523328.7/31

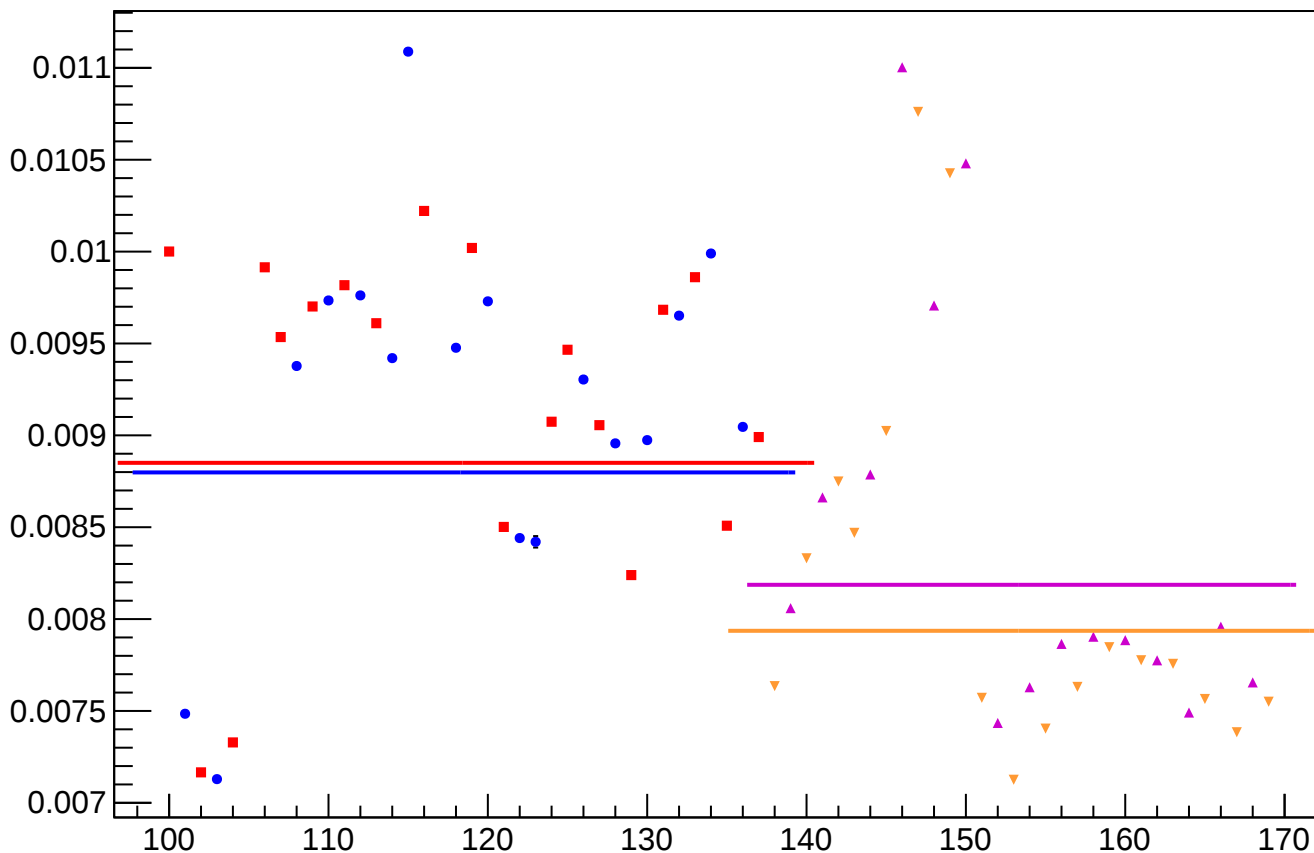
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.192+/-0.000 χ^2/NDF : 8577017167.5/31

Out: -1.153+/-0.000 χ^2/NDF : 10833166141.5/35

All: -1.172+/-0.000 χ^2/NDF : 19604189643.4/70

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 :248496.1/16

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 : 510433.8/31

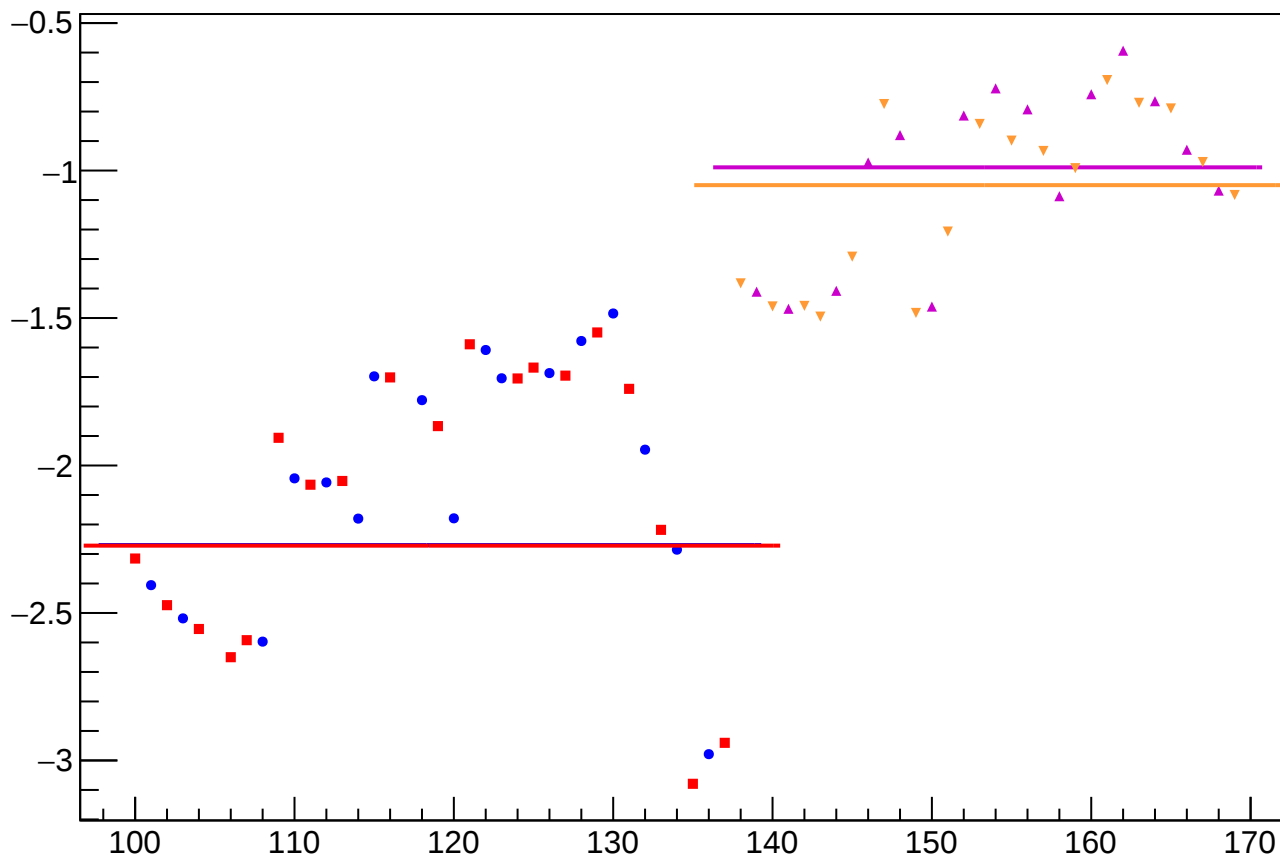
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :443529.3/31

Out: 0.008+/-0.000 χ^2/NDF :519206.2/35

All: 0.008+/-0.000 χ^2/NDF : 970093.9/67

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.050+/-0.000 χ^2/NDF : 17539878514.7/16

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: -1.021+/-0.000 χ^2/NDF : 35939428881.9/31

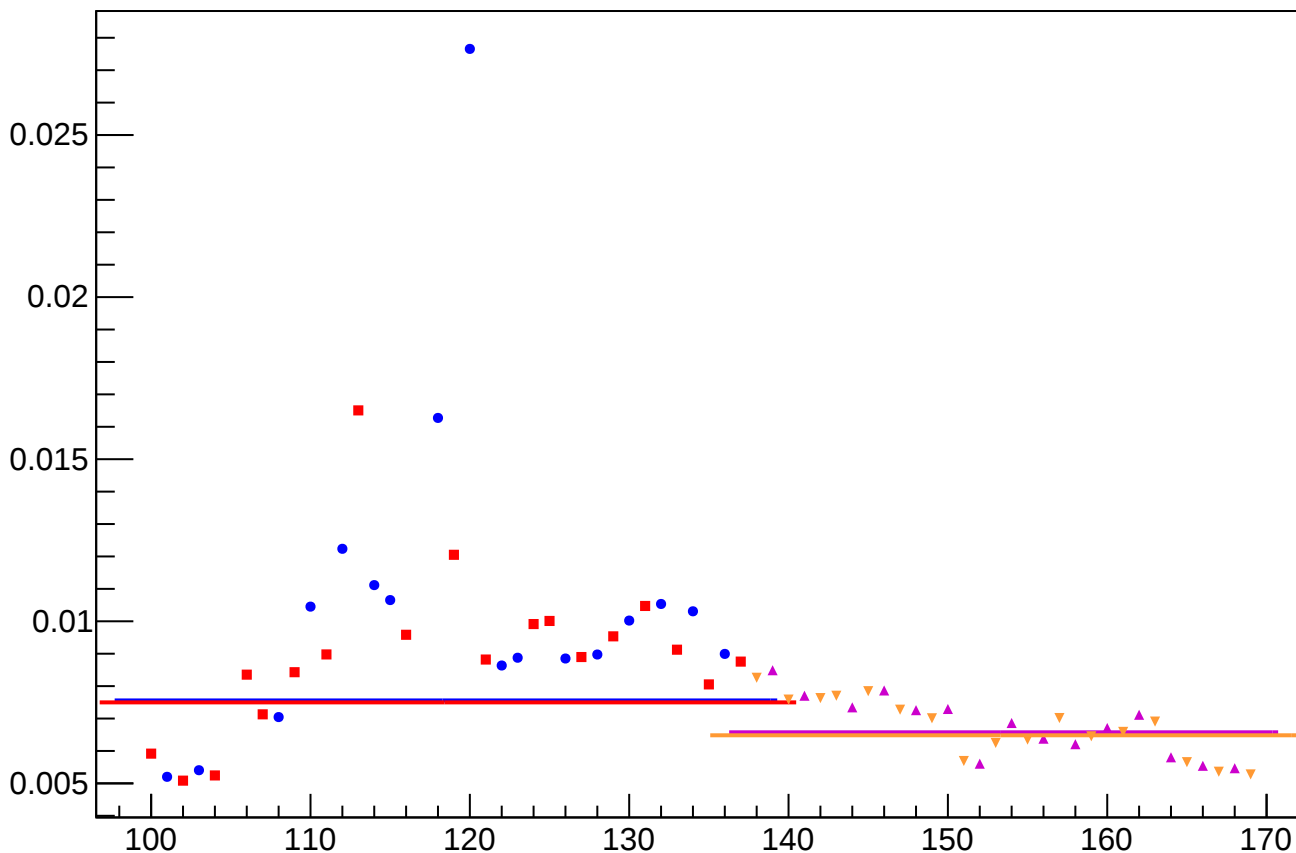
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.326+/-0.000 χ^2/NDF : 141807874747.4/31

Out: -1.378+/-0.000 χ^2/NDF : 145299033214.4/35

All: -1.353+/-0.000 χ^2/NDF : 287585398931.8

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 419163.2/16

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 : 792861.7/31

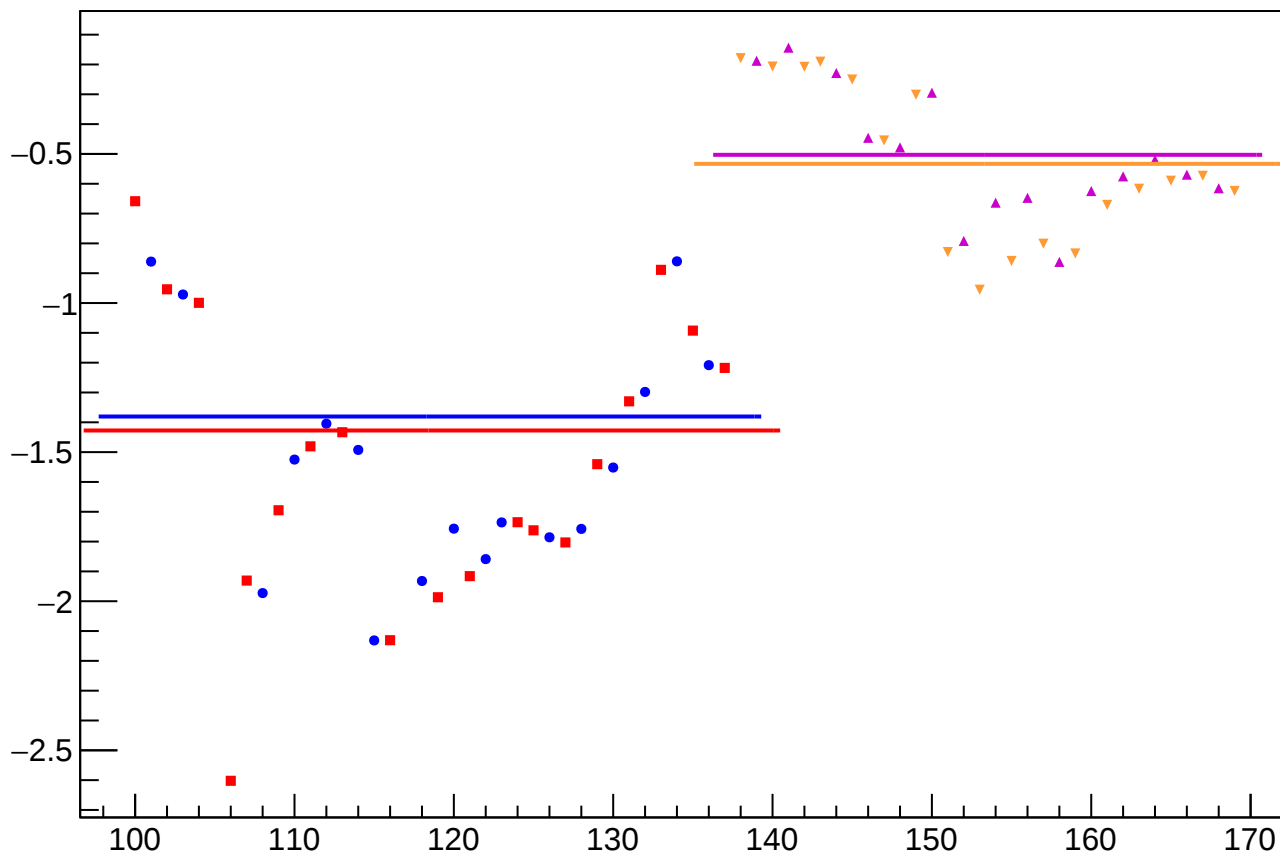
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF : 1717991.9/31

Out: 0.007+/-0.000 χ^2/NDF : 1503210.6/35

All: 0.007+/-0.000 χ^2/NDF : 3223313.6/67

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.519+/-0.000

χ^2/NDF : 74127922227.9/31

Left Out: -0.533+/-0.000

χ^2/NDF : 45009781569.2/16

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

In: -0.657+/-0.000

χ^2/NDF : 131224070369.0/31

Out: -0.698+/-0.000

χ^2/NDF : 173762780597.9/35

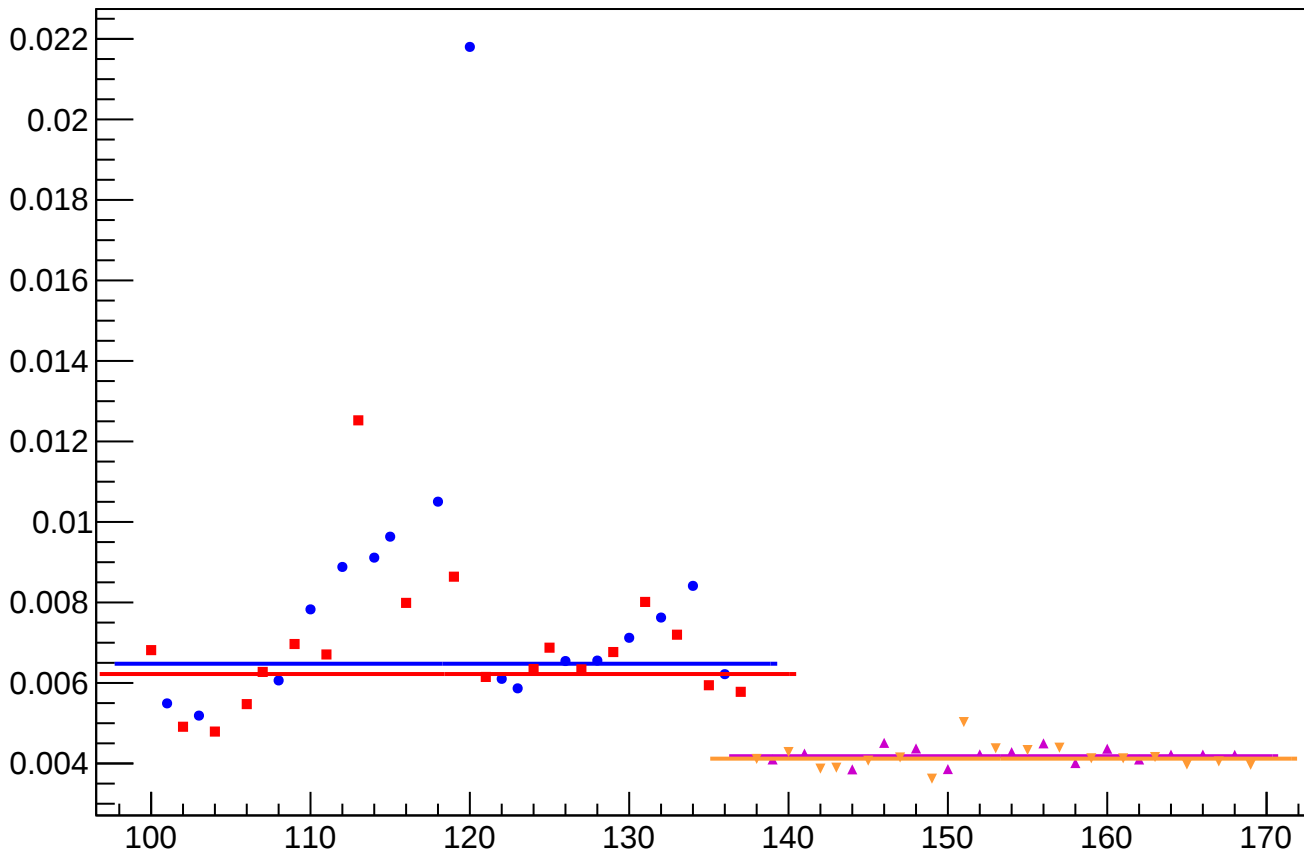
Left In: -0.503+/-0.000

χ^2/NDF : 28825604018.6/14

All: -0.679+/-0.000

χ^2/NDF : 305618865970.4

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 : 92356.3/16

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 : 141710.4/31

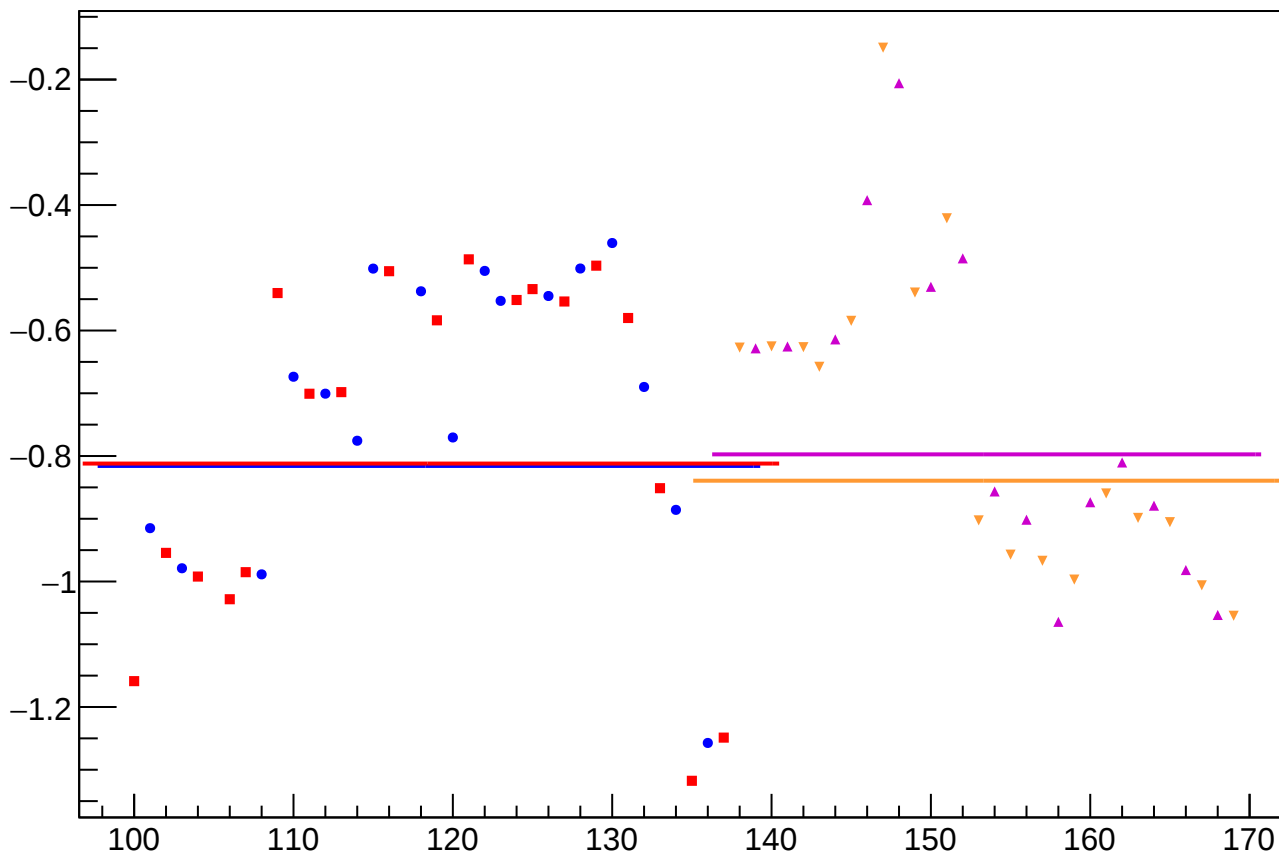
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.005+/-0.000 χ^2/NDF : 1748657.8/31

Out: 0.005+/-0.000 χ^2/NDF : 1611681.6/35

All: 0.005+/-0.000 χ^2/NDF : 3365137.8/67

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000

χ^2/NDF : 14172884795.2/16

Left: -0.819+/-0.000

χ^2/NDF : 68216833057.7/31

Right: -0.814+/-0.000

χ^2/NDF : 30990213454.0/35

Left Out: -0.839+/-0.000

χ^2/NDF : 33355404049.0/16

In: -0.802+/-0.000

χ^2/NDF : 48475662454.4/31

Right Out: -0.812+/-0.000

χ^2/NDF : 16815852448.9/18

Out: -0.833+/-0.000

χ^2/NDF : 50297904306.0/35

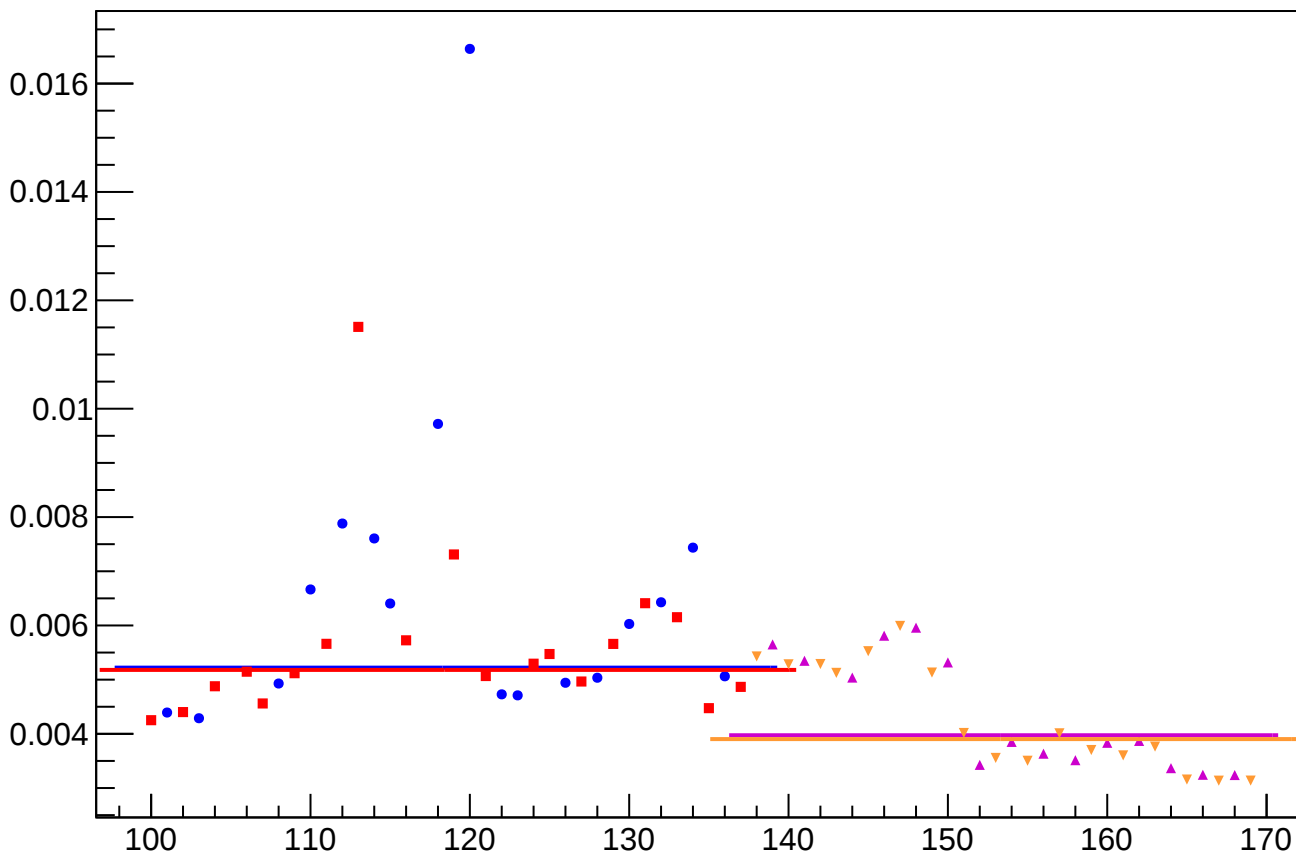
Left In: -0.797+/-0.000

χ^2/NDF : 34251448985.0/14

All: -0.818+/-0.000

χ^2/NDF : 99217171190.0/...

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 $\chi^2/\text{NDF}: 664386.8/16$

Left Out: 0.004+/-0.000 $\chi^2/\text{NDF}: 998541.1/16$

Right Out: 0.005+/-0.000 $\chi^2/\text{NDF}: 363781.3/18$

Left In: 0.004+/-0.000 $\chi^2/\text{NDF}: 953596.4/14$

Left: 0.004+/-0.000 $\chi^2/\text{NDF}: 1955623.6/31$

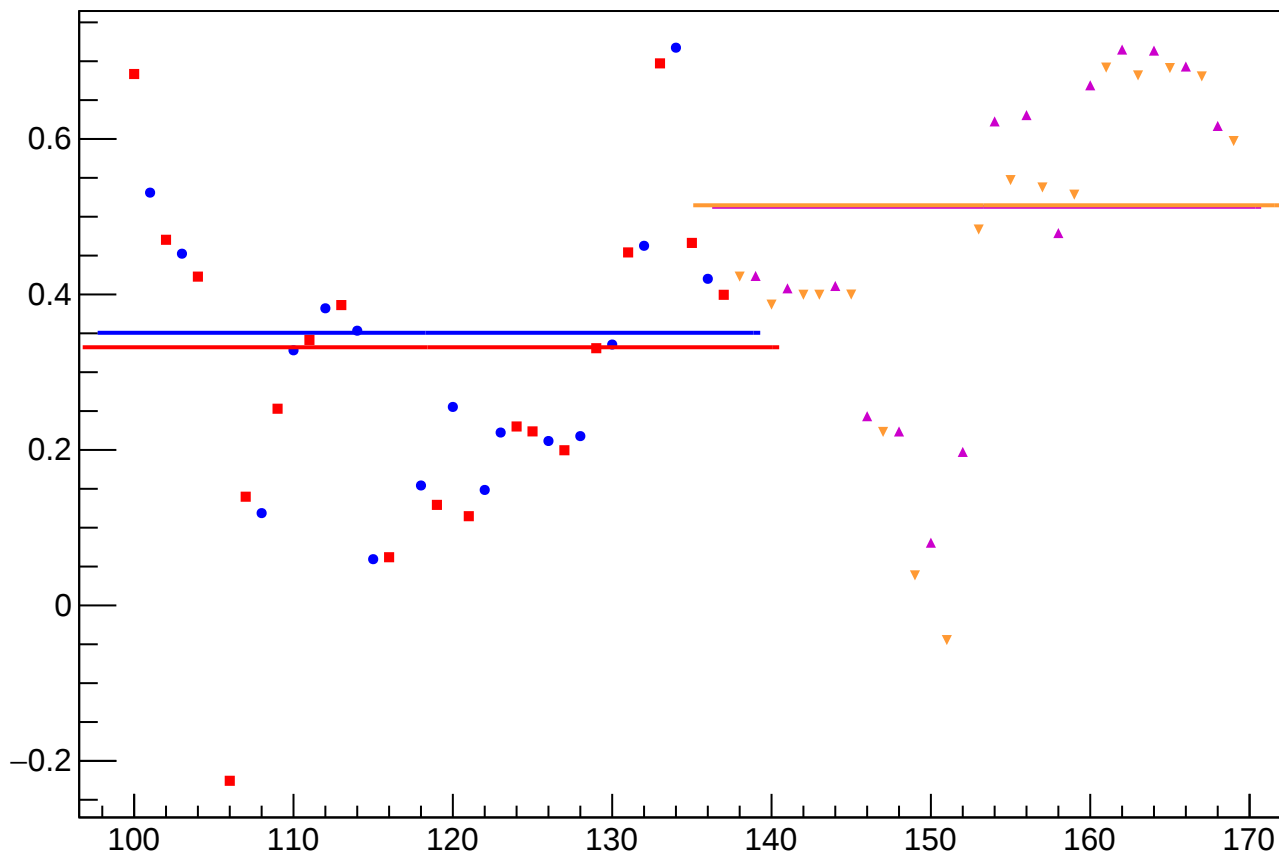
Right: 0.005+/-0.000 $\chi^2/\text{NDF}: 1028532.8/35$

In: 0.004+/-0.000 $\chi^2/\text{NDF}: 2088196.1/31$

Out: 0.004+/-0.000 $\chi^2/\text{NDF}: 1915826.8/35$

All: 0.004+/-0.000 $\chi^2/\text{NDF}: 4007234.9/67$

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.515+/-0.000 χ^2/NDF : 37901127668.0/16

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: 0.514+/-0.000 χ^2/NDF : 72183087408.1/31

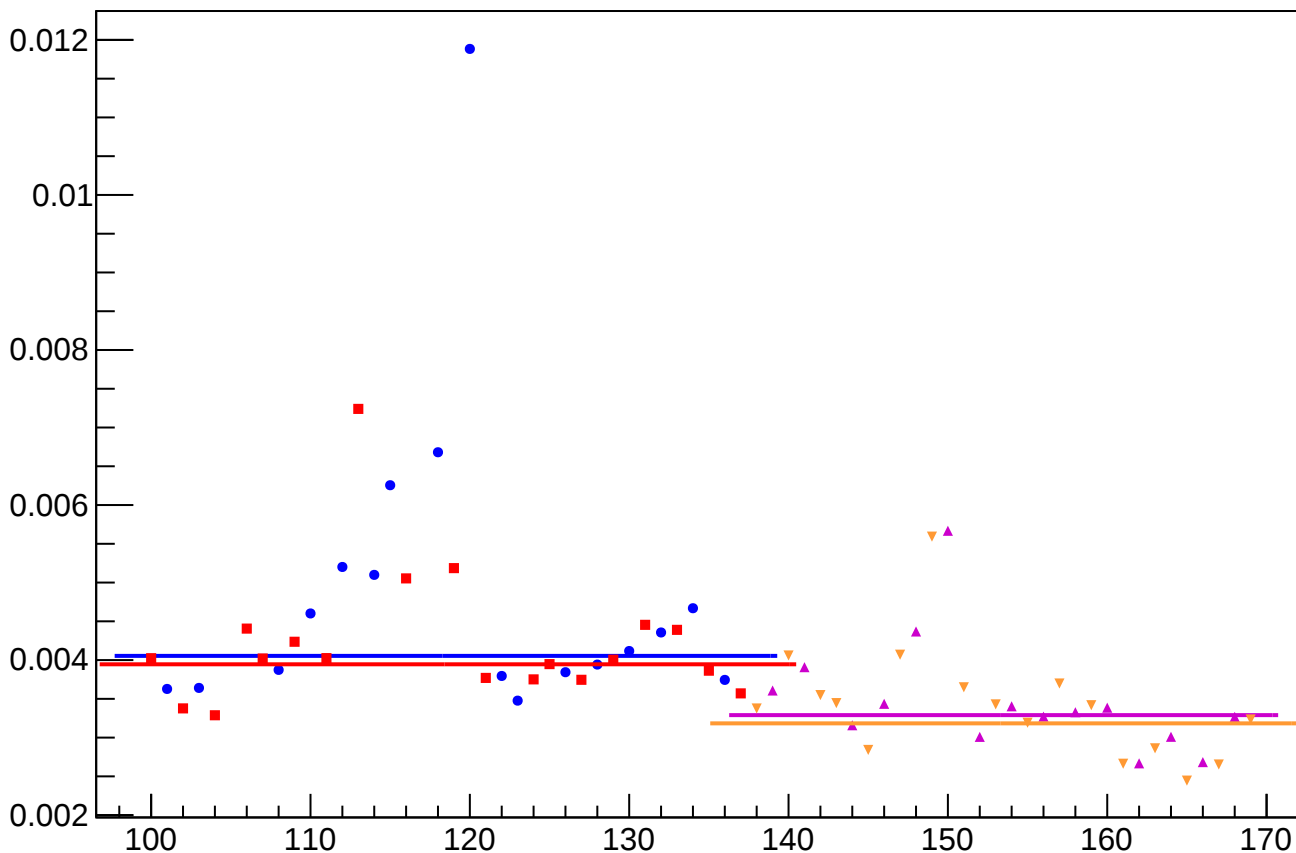
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.469+/-0.000 χ^2/NDF : 48339670892.3/31

Out: 0.466+/-0.000 χ^2/NDF : 59278639114.3/35

All: 0.467+/-0.000 χ^2/NDF : 107626703821.2

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 708544.2/16

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 556873.4/14

Left: 0.003+/-0.000 χ^2/NDF : 1276700.2/31

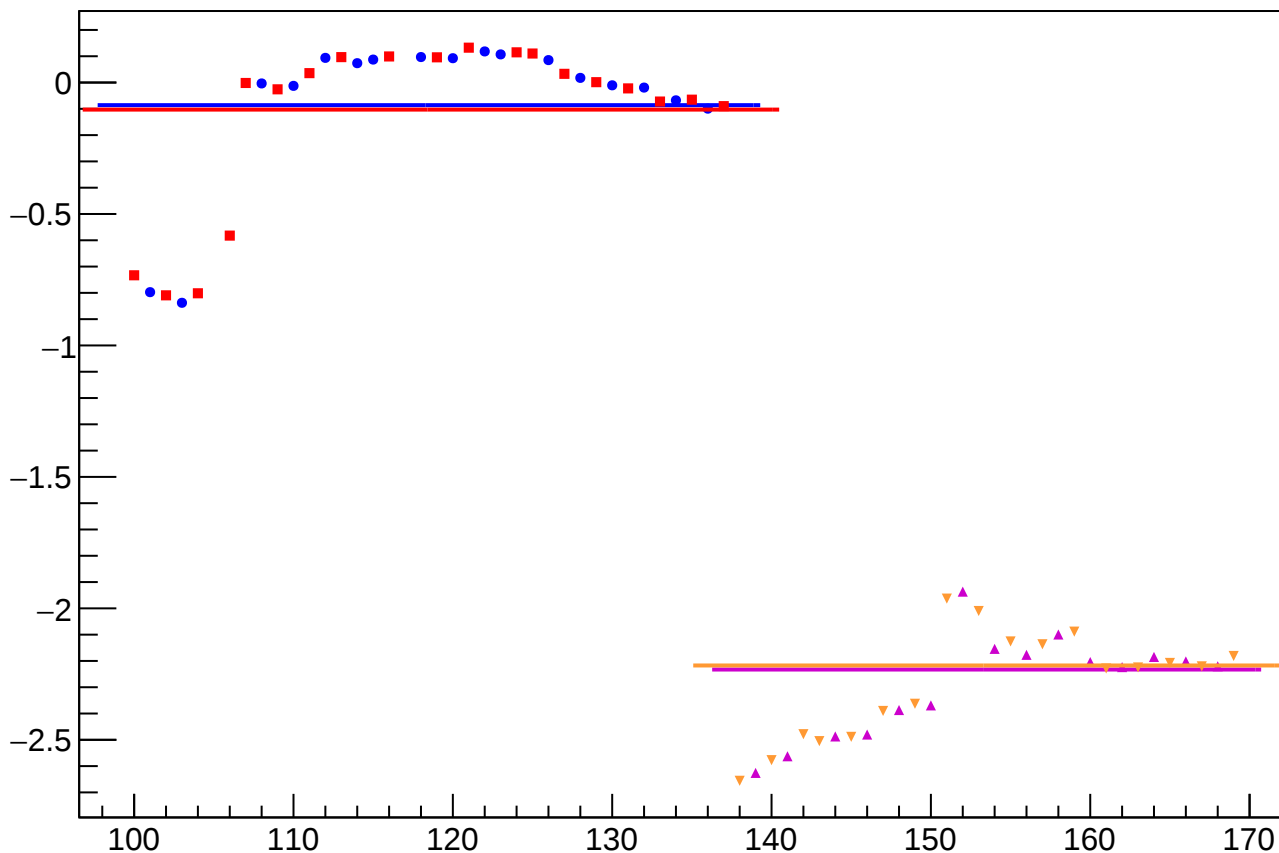
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1307788.9/31

Out: 0.003+/-0.000 χ^2/NDF : 1303008.2/35

All: 0.003+/-0.000 χ^2/NDF : 2626555.4/67

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.217+/-0.000 χ^2/NDF : 3426152907.1/16

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.233+/-0.000 χ^2/NDF : 2690609579.5/14

Left: -2.224+/-0.000 χ^2/NDF : 6128499976.9/31

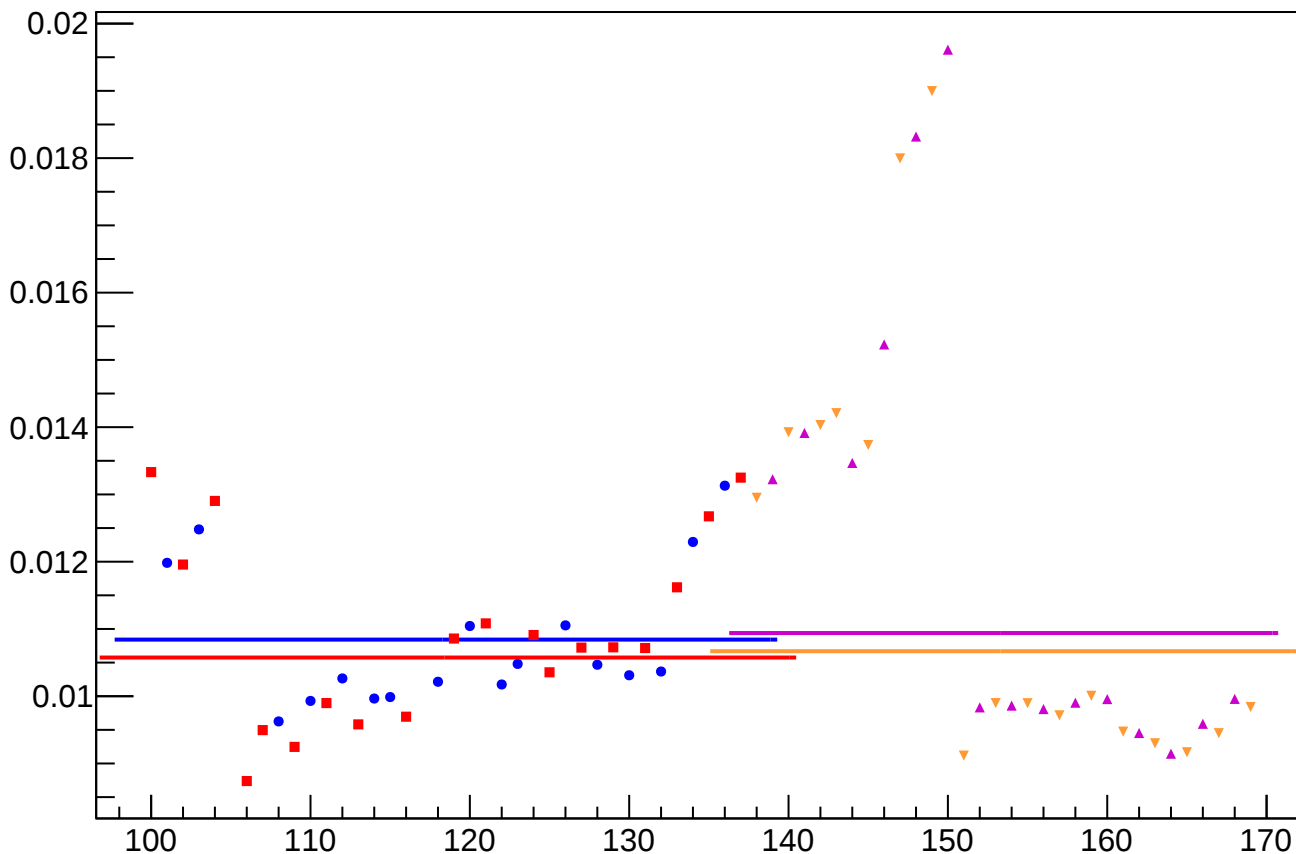
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.418+/-0.000 χ^2/NDF : 169165365475.7/31

Out: -1.429+/-0.000 χ^2/NDF : 184834971612.7/35

All: -1.424+/-0.000 χ^2/NDF : 354010013325.7

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :1115470.9/16

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 : 2241370.5/31

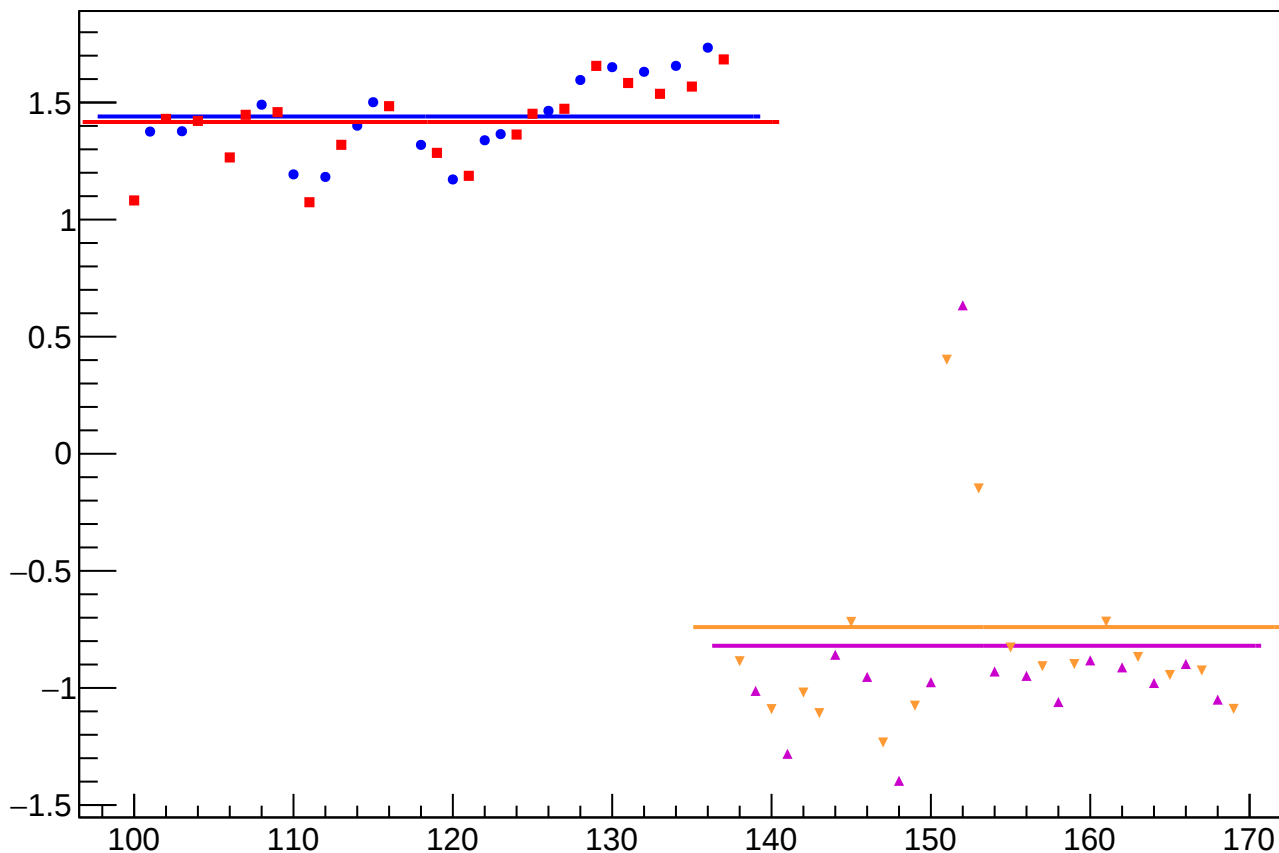
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1243633.6/31

Out: 0.011+/-0.000 χ^2/NDF :1295134.1/35

All: 0.011+/-0.000 χ^2/NDF : 2550132.2/67

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.740 $\pm$ 0.000 χ^2 /NDF: 32482368761.2/16

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: -0.778 $\pm$ 0.000 χ^2 /NDF: 73325180883.8/31

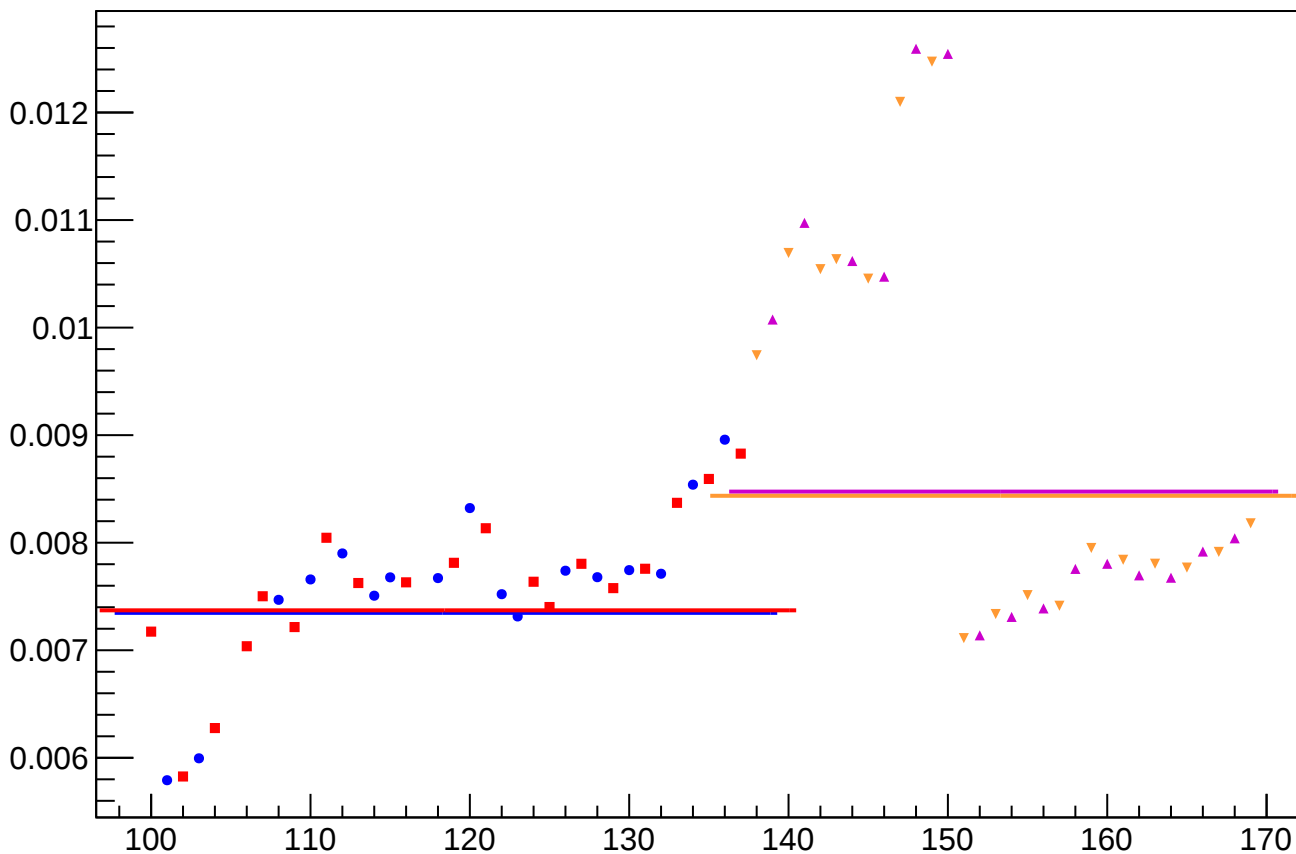
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.171 $\pm$ 0.000 χ^2 /NDF: 393909768957.3/31

Out: 0.186 $\pm$ 0.000 χ^2 /NDF: 377859009713.1/35

All: 0.179 $\pm$ 0.000 χ^2 /NDF: 771802984225.5

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 : 740560.1/16

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 : 1542650.3/31

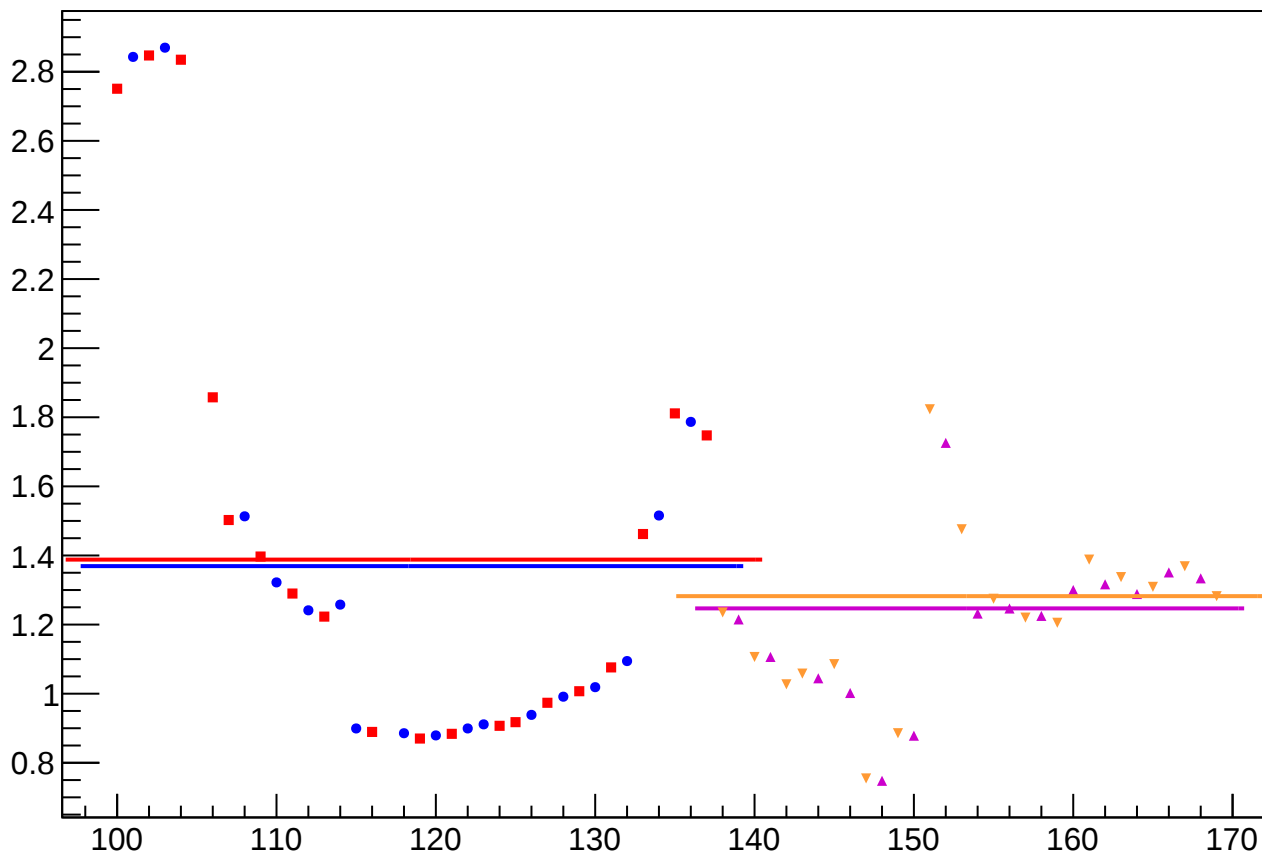
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1204175.0/31

Out: 0.008+/-0.000 χ^2/NDF : 1080385.6/35

All: 0.008+/-0.000 χ^2/NDF : 2284561.8/67

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369 $\pm$ 0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.282 $\pm$ 0.000 χ^2/NDF : 9115161837.4/16

Right Out: 1.388 $\pm$ 0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.247 $\pm$ 0.000 χ^2/NDF : 7233513892.8/14

Left: 1.266 $\pm$ 0.000 χ^2/NDF : 16456138634.4/31

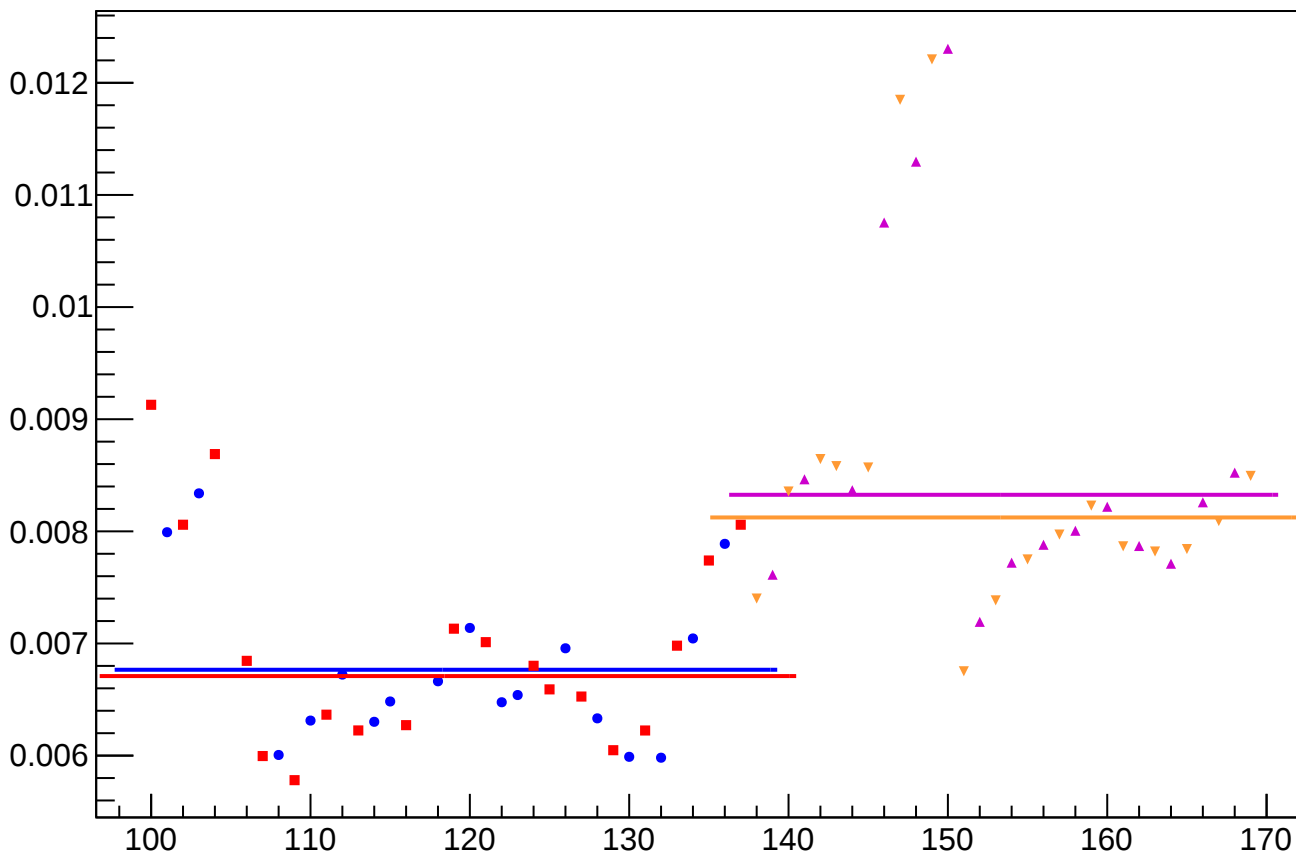
Right: 1.379 $\pm$ 0.000 χ^2/NDF : 104132252851.6/35

In: 1.305 $\pm$ 0.000 χ^2/NDF : 62578880460.6/31

Out: 1.331 $\pm$ 0.000 χ^2/NDF : 59954175464.0/35

All: 1.318 $\pm$ 0.000 χ^2/NDF : 122643663679.4

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 414279.0/16

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 : 850156.8/31

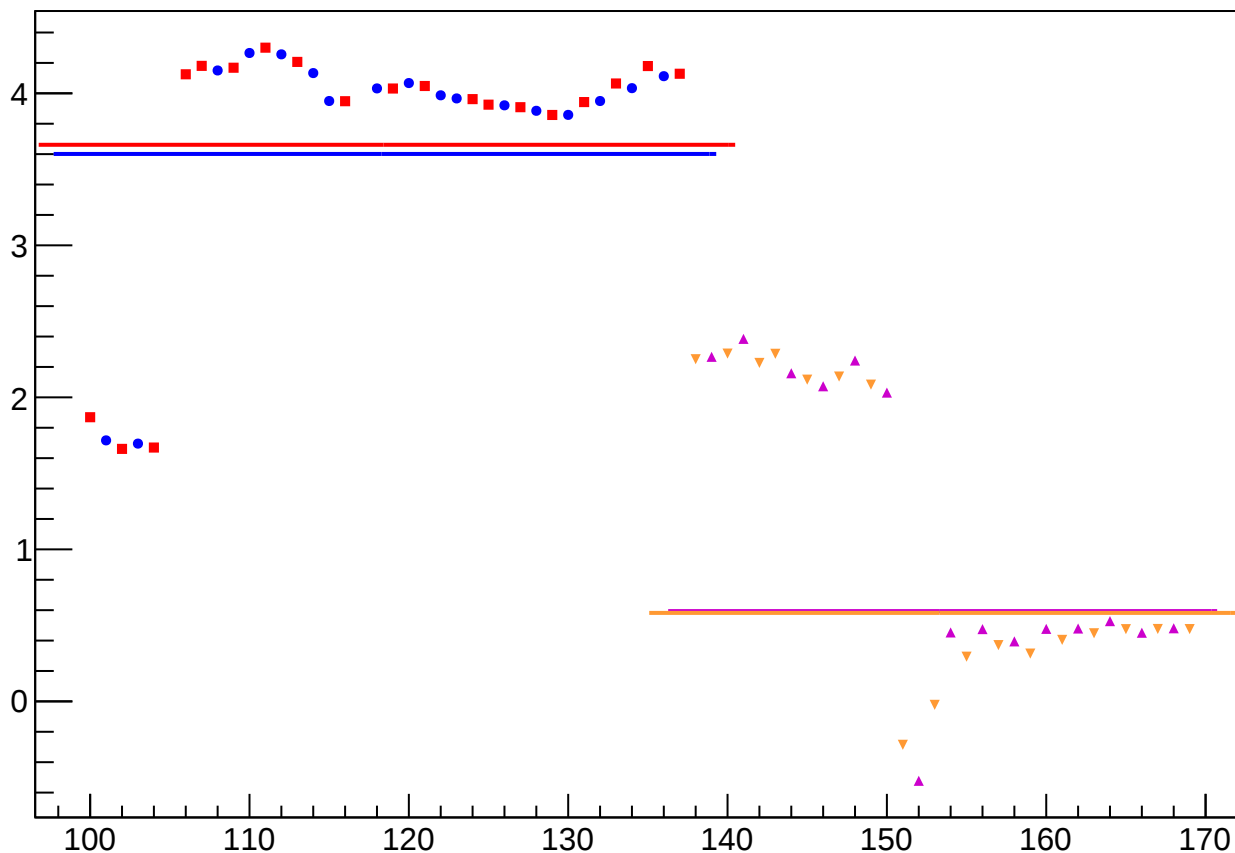
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 959254.2/31

Out: 0.007+/-0.000 χ^2/NDF : 938044.5/35

All: 0.008+/-0.000 χ^2/NDF : 1901552.9/67

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.582+/-0.000 χ^2/NDF : 257534707677.6/16

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: 0.588+/-0.000 χ^2/NDF : 511072766940.9/31

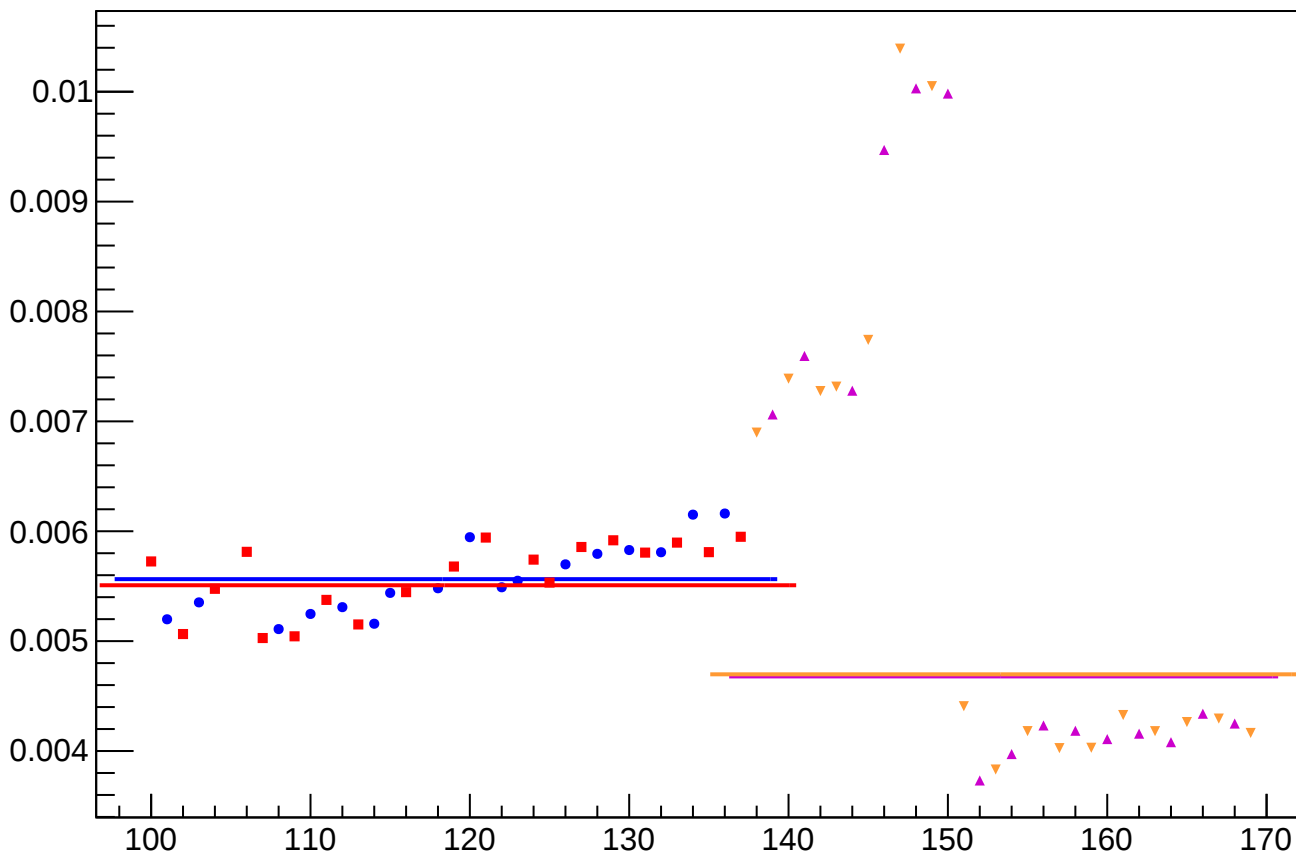
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.548+/-0.000 χ^2/NDF : 1772447018760.8/31

Out: 1.546+/-0.000 χ^2/NDF : 1943232275274.5/35

All: 1.547+/-0.000 χ^2/NDF : 3715680381761.

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 :1943456.0/16

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 : 4064112.5/31

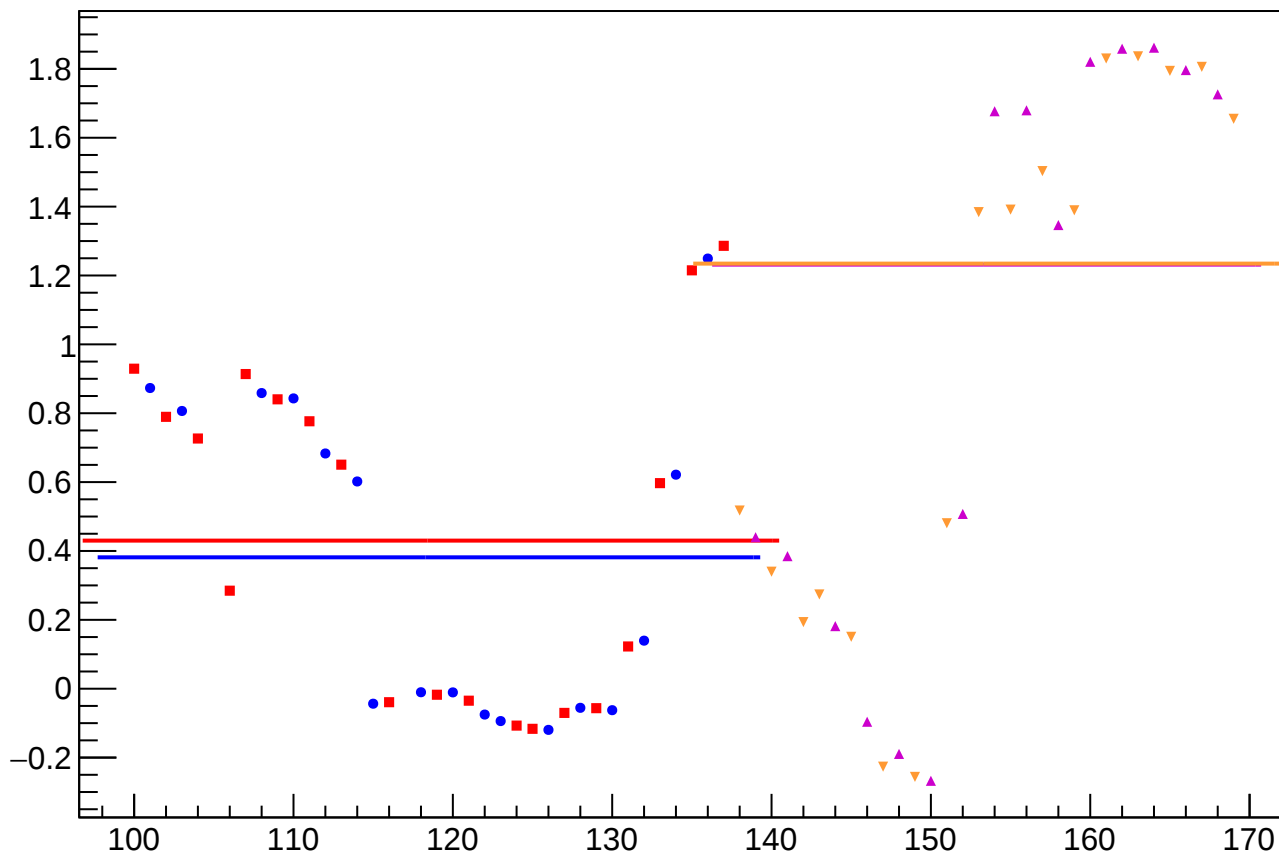
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2399133.3/31

Out: 0.005+/-0.000 χ^2/NDF :2202994.2/35

All: 0.005+/-0.000 χ^2/NDF : 4602171.6/67

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.234 $\pm$ 0.000 χ^2 /NDF: 39338624740.2/16

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.231 $\pm$ 0.000 χ^2 /NDF: 43841044843.7/14

Left: 1.233 $\pm$ 0.000 χ^2 /NDF: 83180046528.1/31

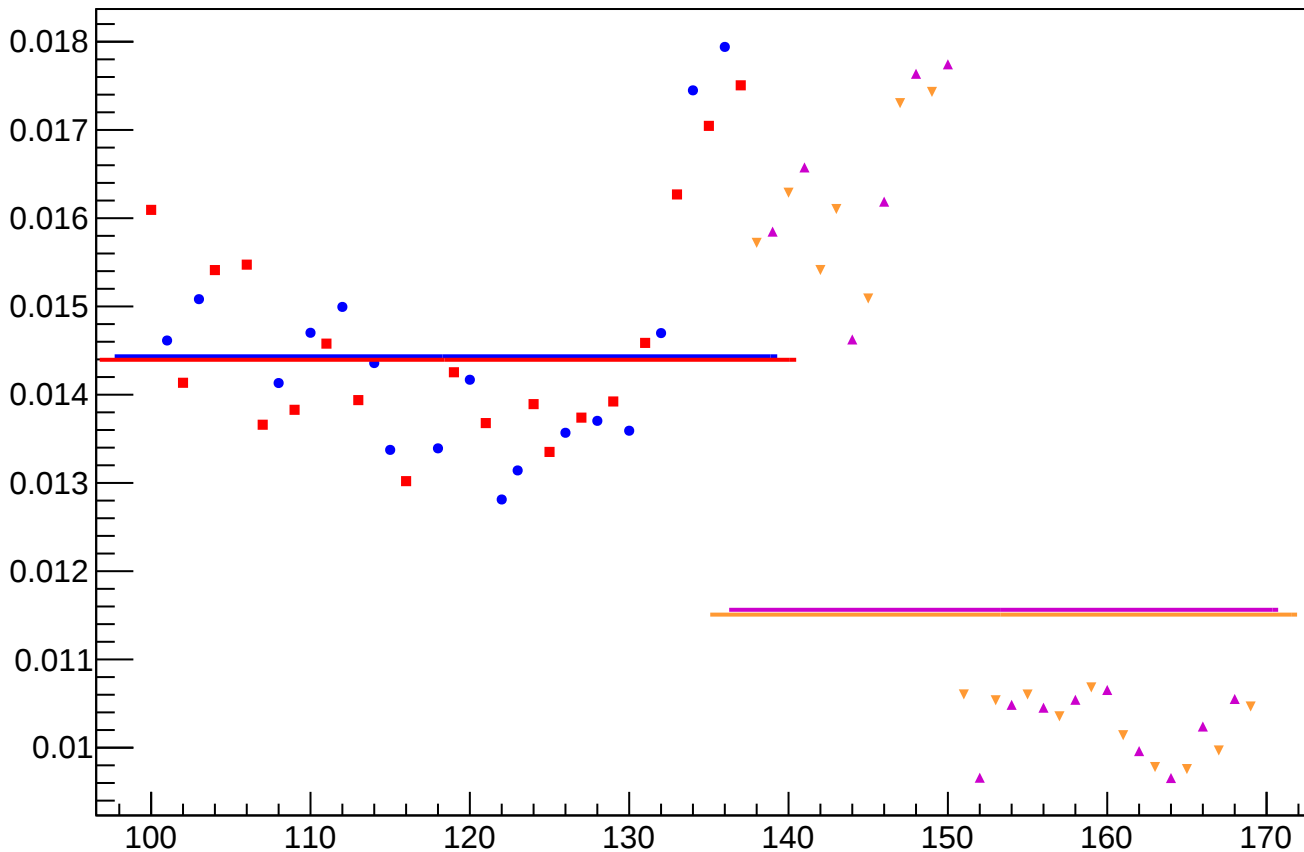
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 0.995 $\pm$ 0.000 χ^2 /NDF: 67537529693.3/31

Out: 1.017 $\pm$ 0.000 χ^2 /NDF: 61822205541.1/35

All: 1.006 $\pm$ 0.000 χ^2 /NDF: 129387606719.2

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 :1070448.9/16

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 : 2166000.7/31

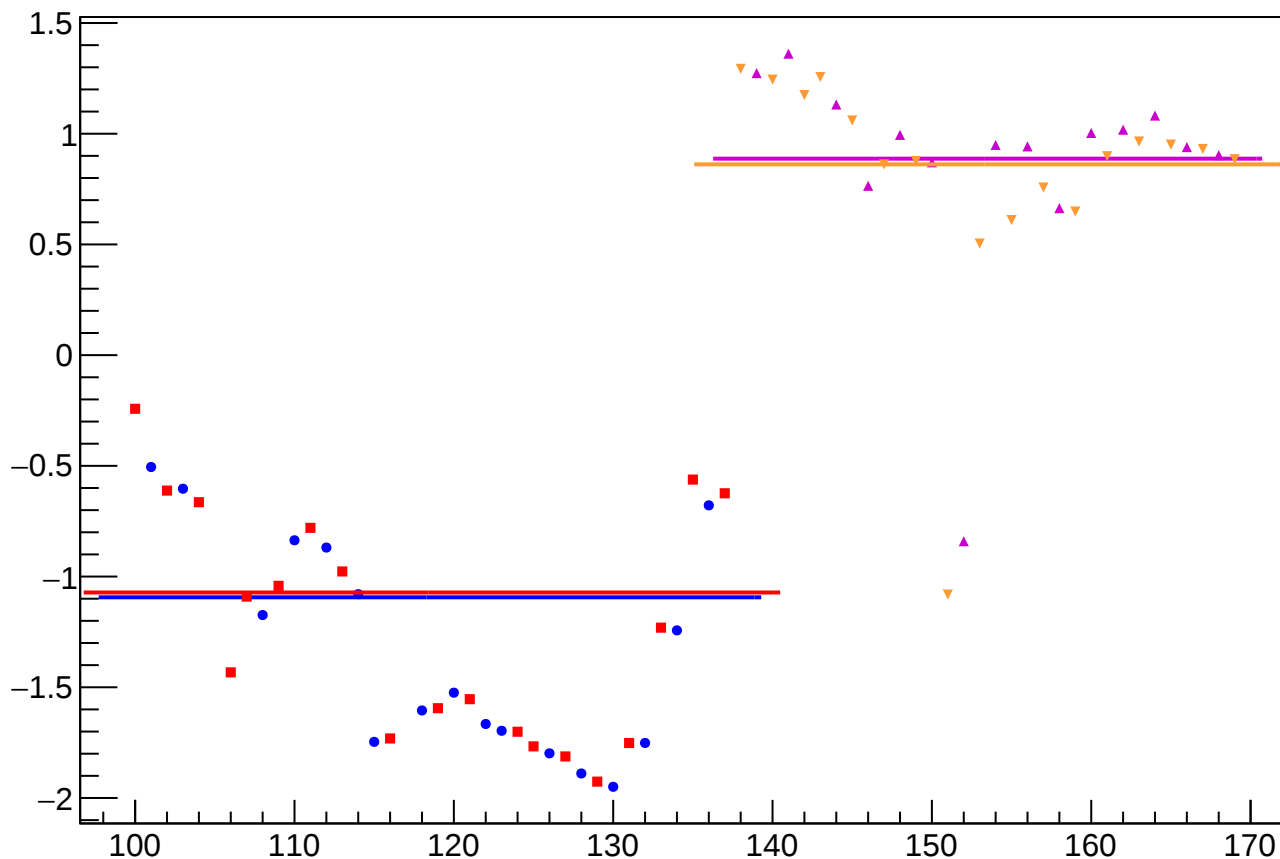
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1584062.2/31

Out: 0.012+/-0.000 χ^2/NDF :1552439.5/35

All: 0.012+/-0.000 χ^2/NDF : 3137117.1/67

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 $\chi^2/\text{NDF}: 55960104370.4/16$

Left Out: 0.862 ± 0.000 $\chi^2/\text{NDF}: 124799773236.2/16$

Right Out: -1.072 ± 0.000 $\chi^2/\text{NDF}: 46896017480.0/18$

Left In: 0.887 ± 0.000 $\chi^2/\text{NDF}: 145722006356.5/14$

Left: 0.874 ± 0.000 $\chi^2/\text{NDF}: 270782772240.1/31$

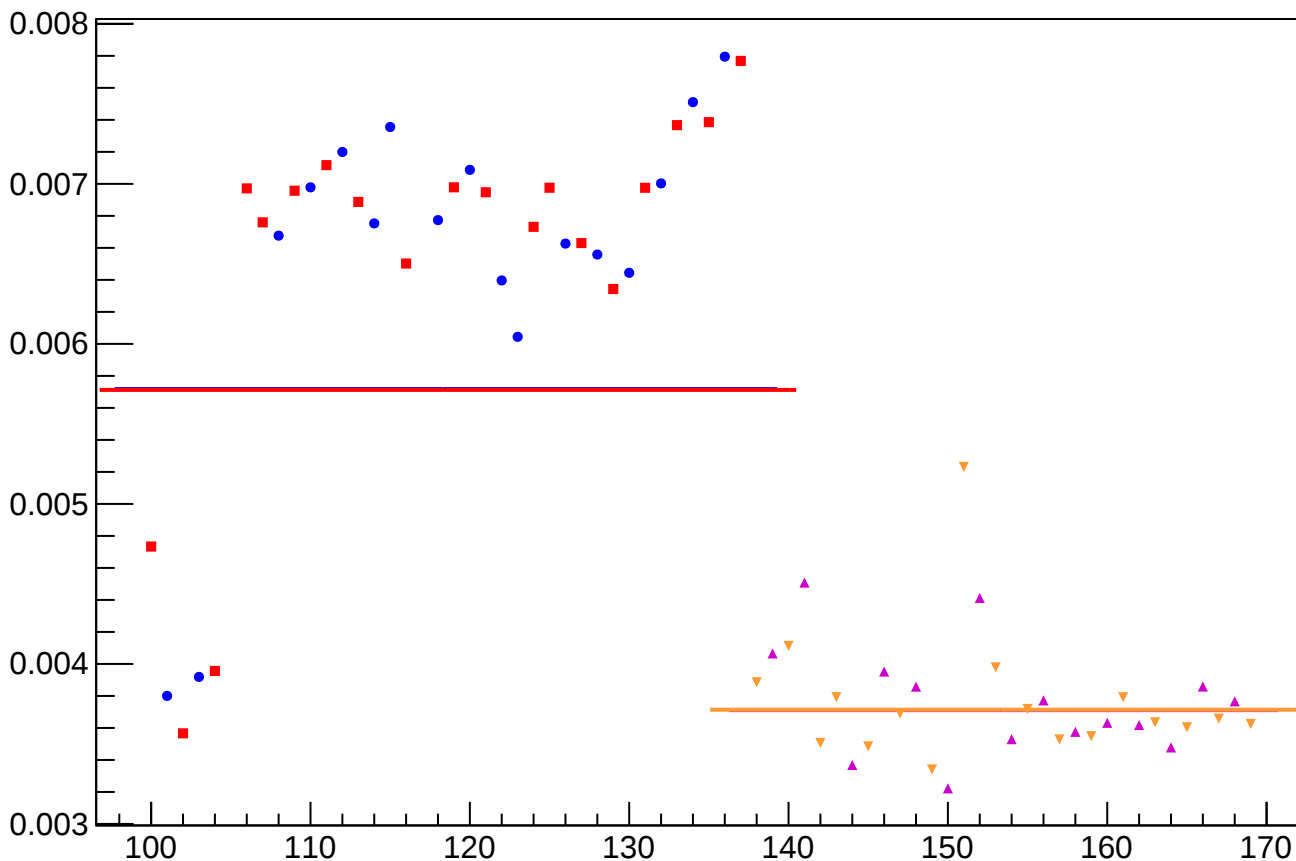
Right: -1.083 ± 0.000 $\chi^2/\text{NDF}: 102900070258.1/35$

In: 0.505 ± 0.000 $\chi^2/\text{NDF}: 776960358496.6/31$

Out: 0.501 ± 0.000 $\chi^2/\text{NDF}: 746022873744.8/35$

All: 0.503 ± 0.000 $\chi^2/\text{NDF}: 1522991169585.$

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 :162239.6/16

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 : 333007.9/31

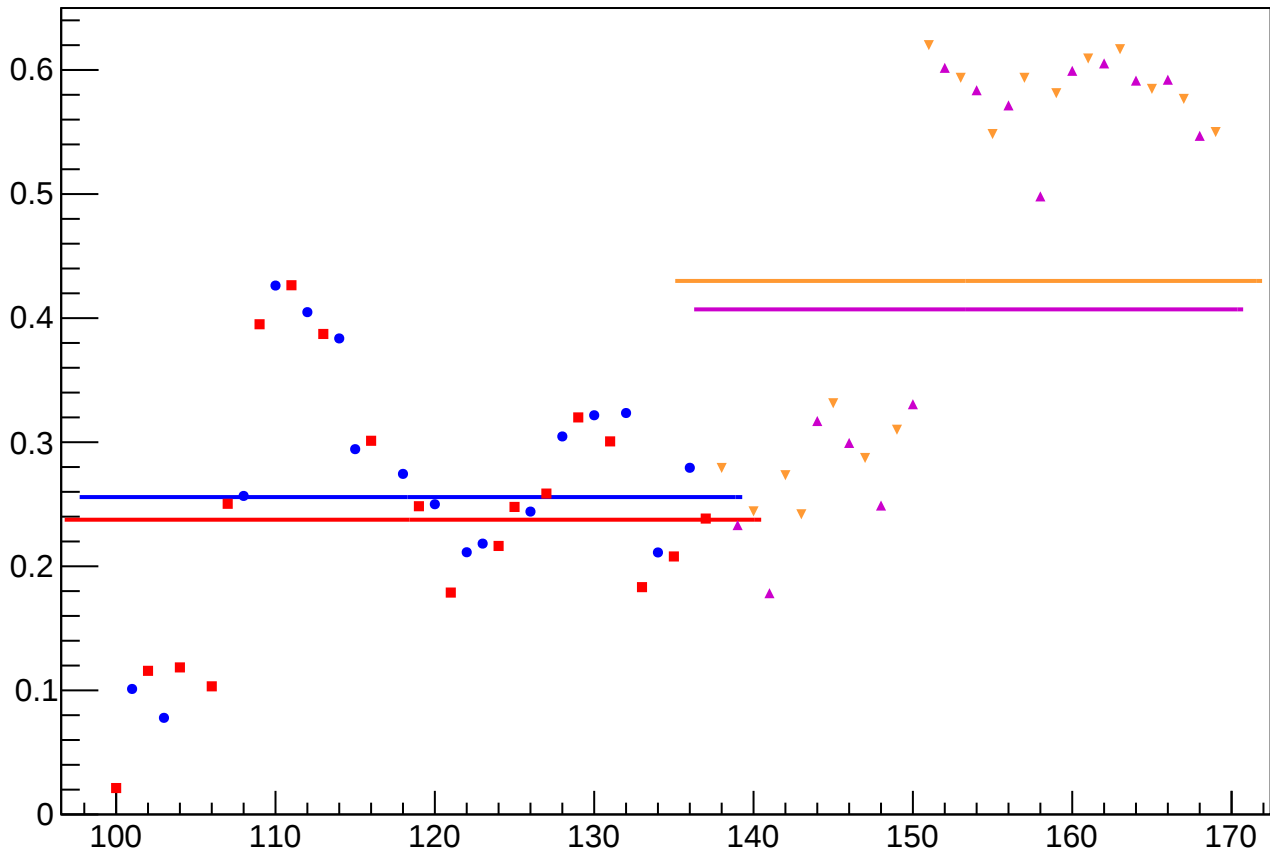
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2188493.3/31

Out: 0.004+/-0.000 χ^2/NDF :2313550.9/35

All: 0.004+/-0.000 χ^2/NDF : 4502183.0/67

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.430+/-0.000 χ^2/NDF : 82640355625.7/16

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.407+/-0.000 χ^2/NDF : 75779006979.1/14

Left: 0.419+/-0.000 χ^2/NDF : 159253474690.8/31

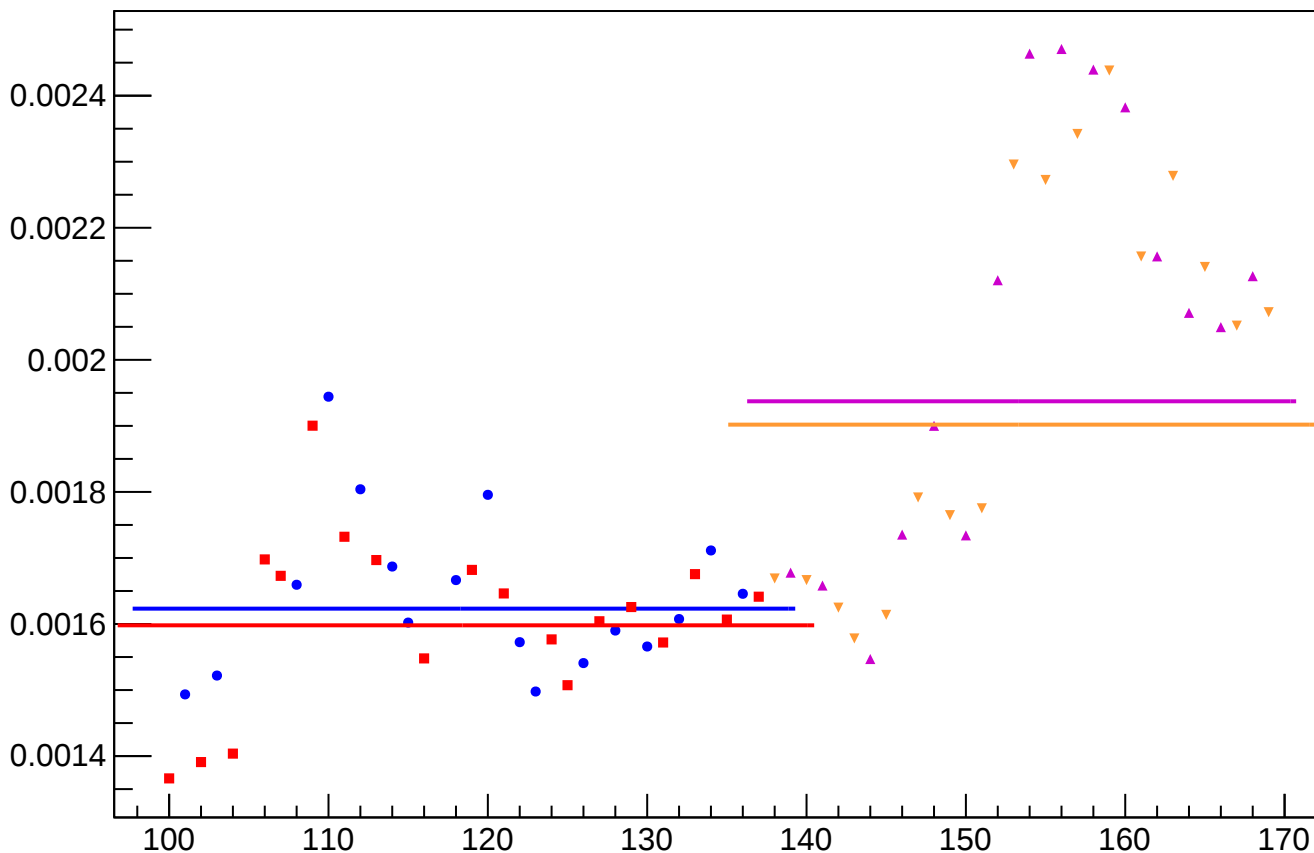
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.339+/-0.000 χ^2/NDF : 127882322654.3/31

Out: 0.344+/-0.000 χ^2/NDF : 164653896597.7/35

All: 0.342+/-0.000 χ^2/NDF : 292621011517.7

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 : 529267.5/16

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 : 1086570.8/31

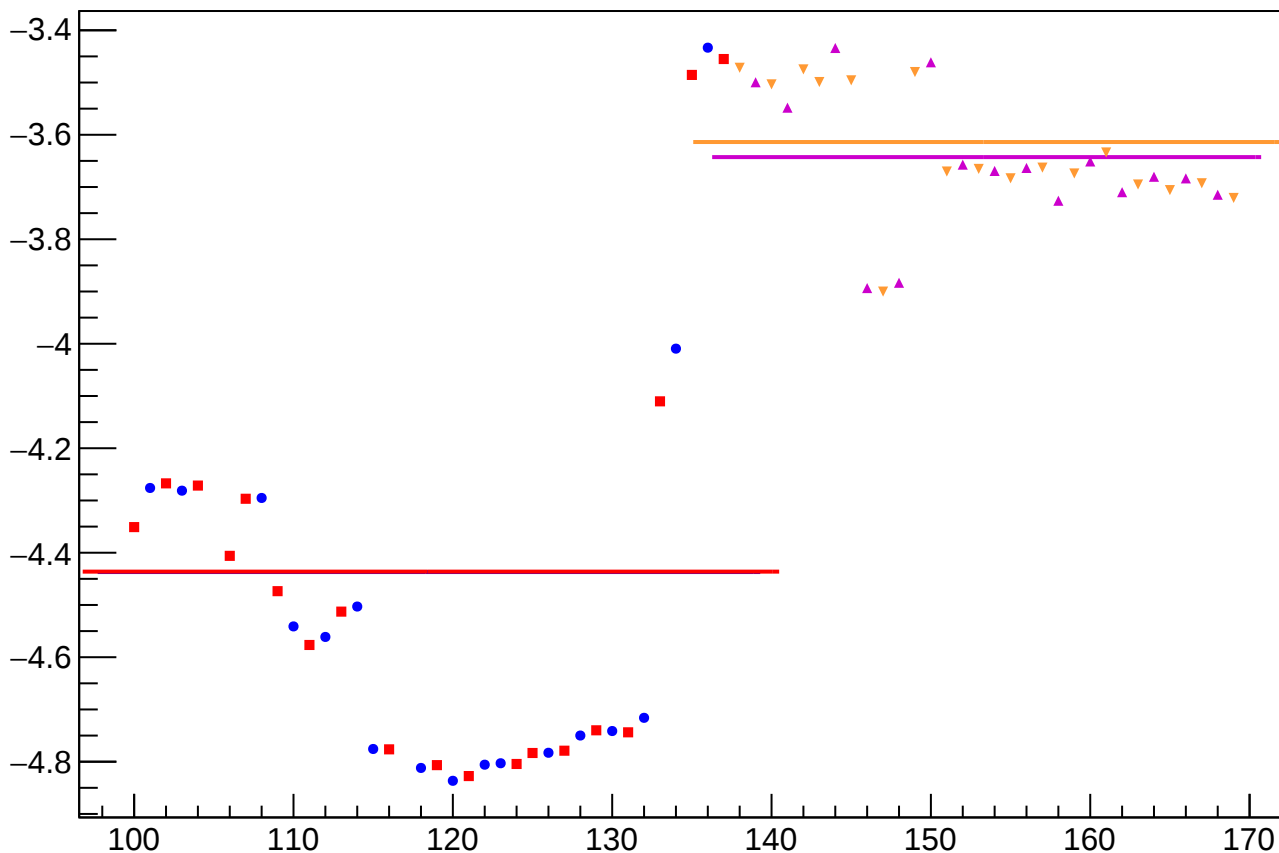
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 870648.5/31

Out: 0.002+/-0.000 χ^2/NDF : 898997.1/35

All: 0.002+/-0.000 χ^2/NDF : 1774524.9/67

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.614 $\pm$ 0.000 χ^2/NDF : 36103222077.9/16

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: -3.628 $\pm$ 0.000 χ^2/NDF : 81275316378.6/31

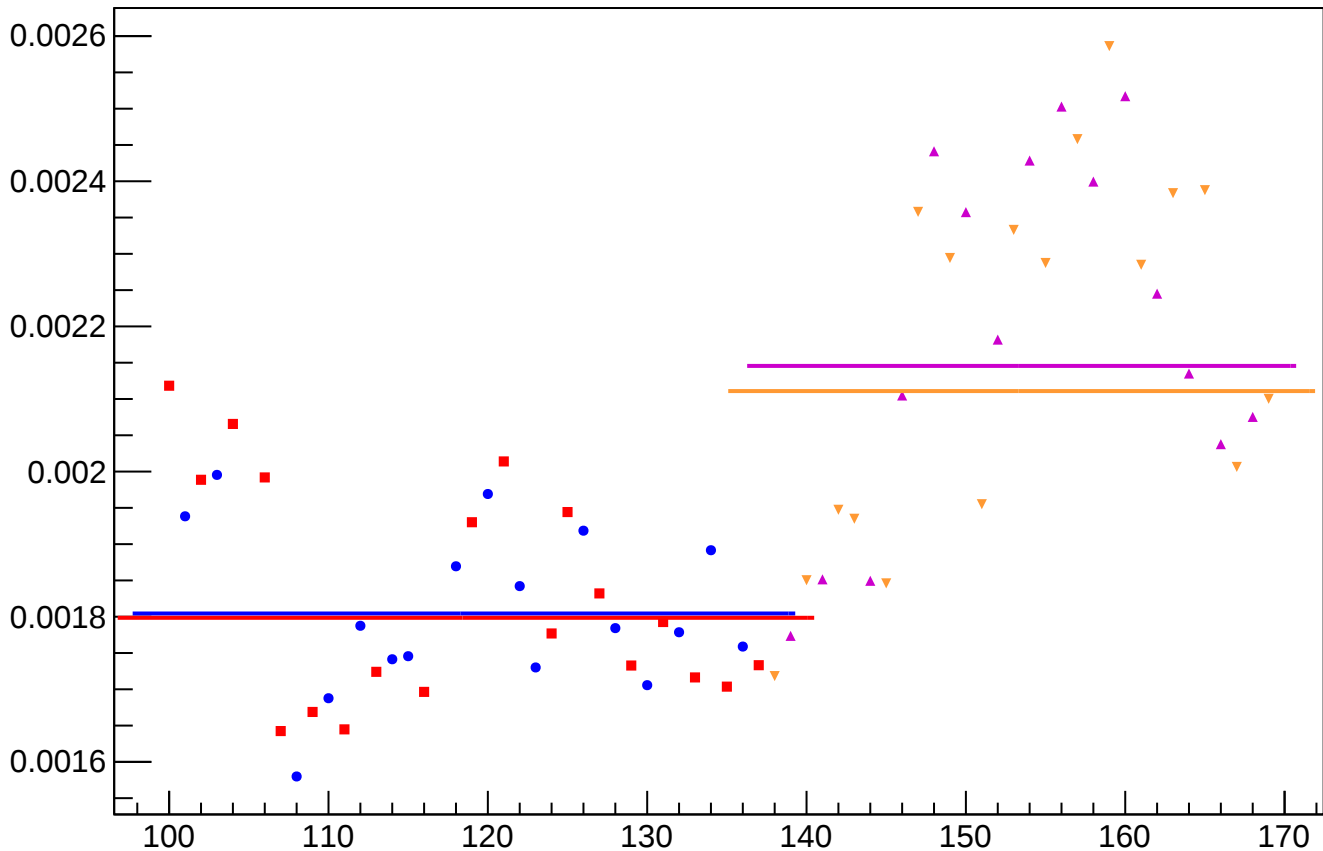
Right: -4.437 $\pm$ 0.000 χ^2/NDF : 717996921060.6/35

In: -3.999 $\pm$ 0.000 χ^2/NDF : 1132091460419.6/31

Out: -3.973 $\pm$ 0.000 χ^2/NDF : 1169736054153.9/35

All: -3.985 $\pm$ 0.000 χ^2/NDF : 2303359180792

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 :342721.6/16

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 : 641127.3/31

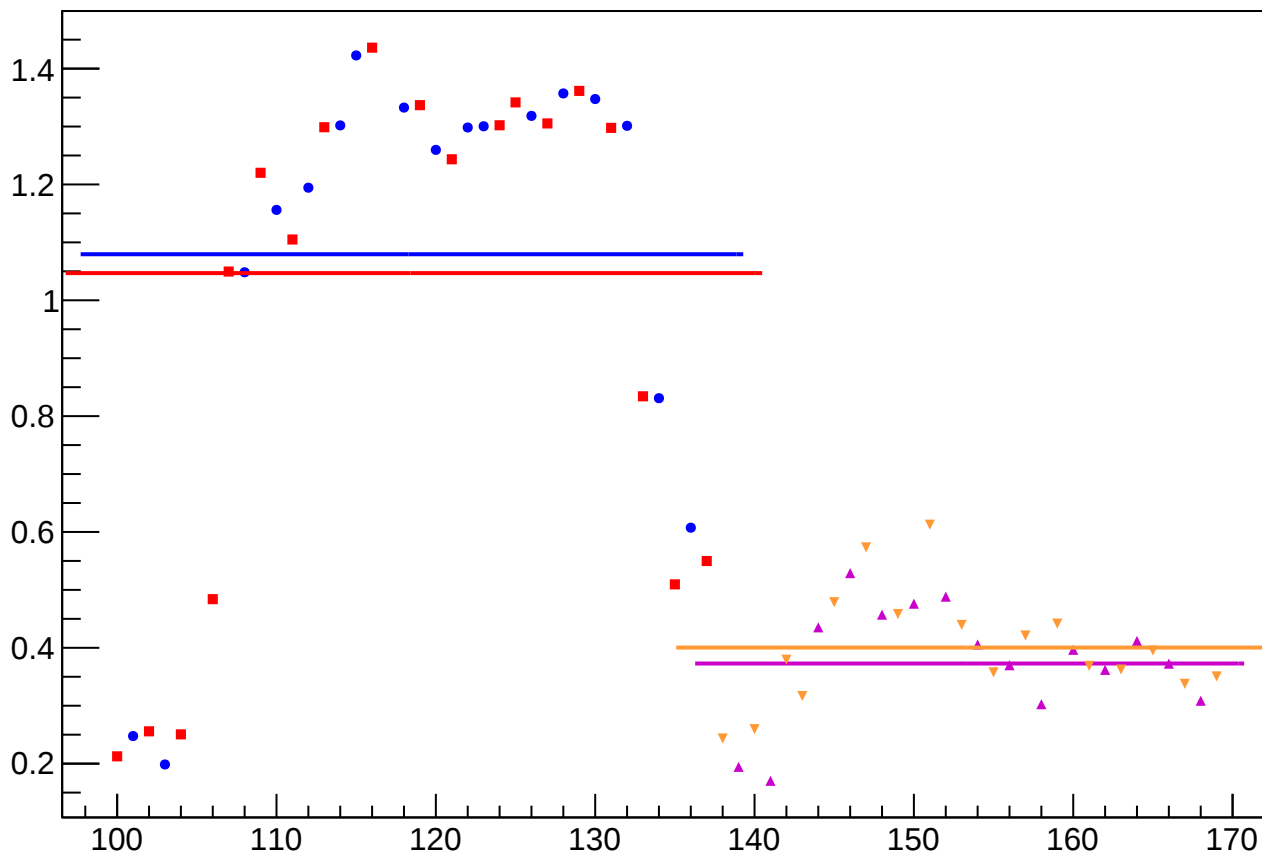
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :600906.0/31

Out: 0.002+/-0.000 χ^2/NDF :657076.0/35

All: 0.002+/-0.000 χ^2/NDF : 1259523.4/67

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.400 $\pm$ 0.000 χ^2 /NDF:1287713577.9/16

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.373 $\pm$ 0.000 χ^2 /NDF:1087704174.6/14

Left: 0.388 $\pm$ 0.000 χ^2 /NDF: 2425141550.9/31

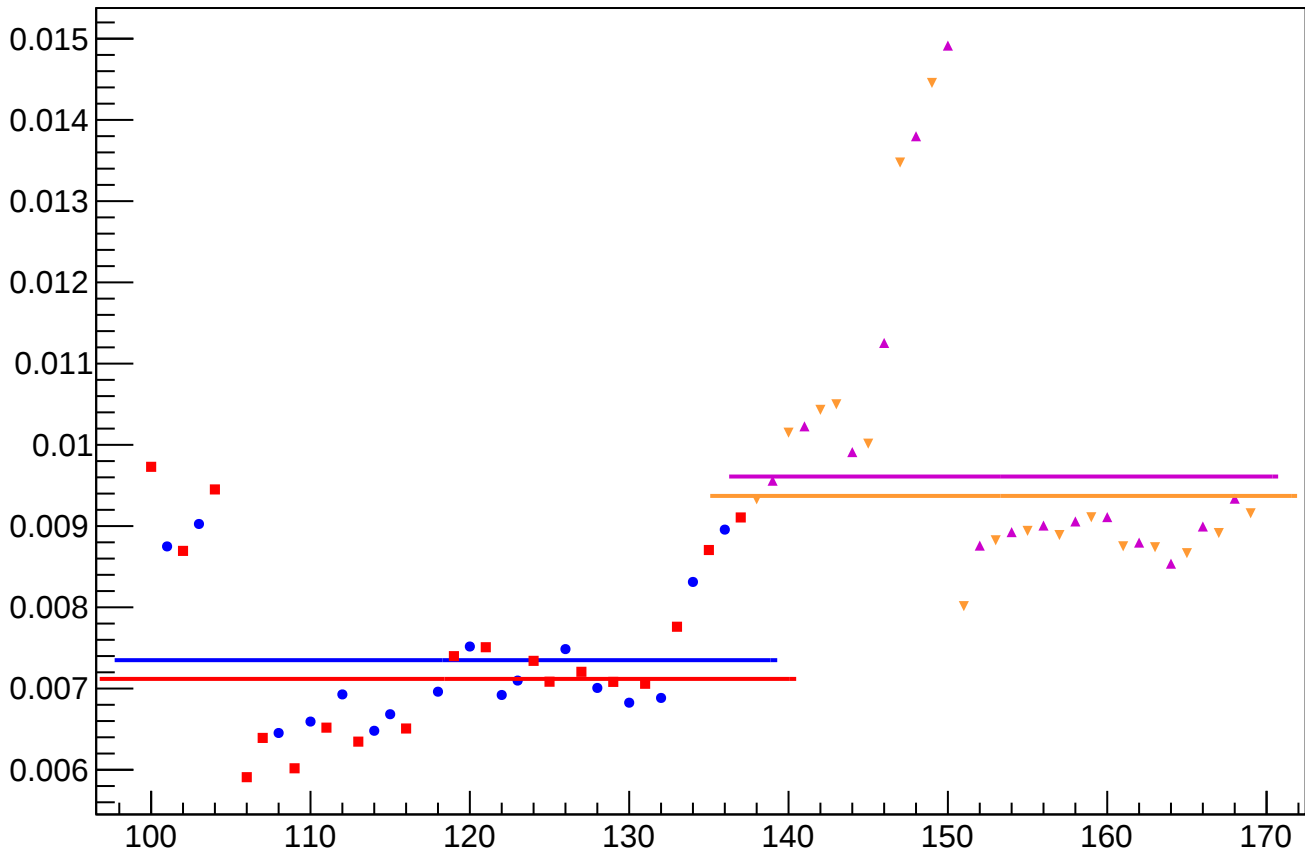
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.725 $\pm$ 0.000 χ^2 /NDF:49266855693.3/31

Out: 0.720 $\pm$ 0.000 χ^2 /NDF:50053068807.5/35

All: 0.722 $\pm$ 0.000 χ^2 /NDF: 99322892681.5/69

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 : 471066.6/16

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 : 967349.5/31

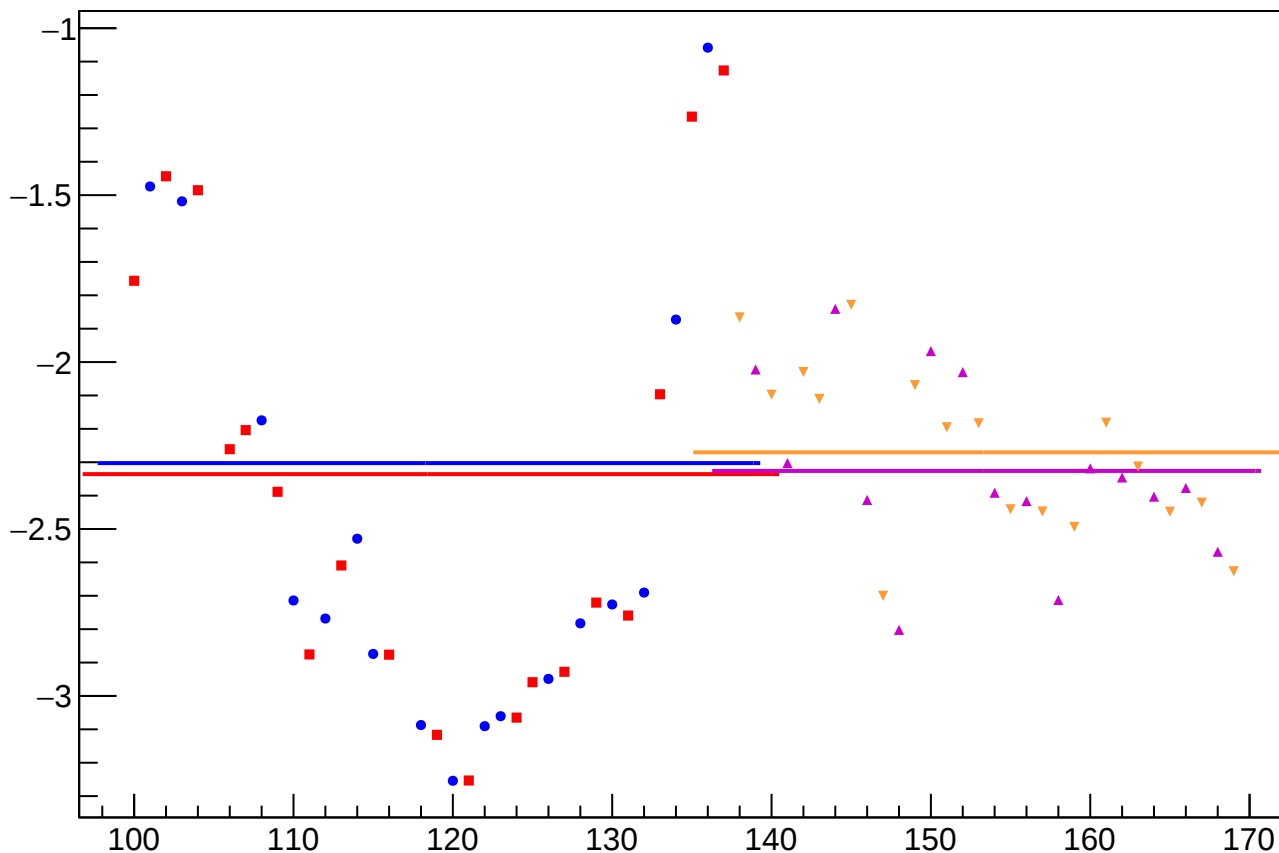
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1296965.7/31

Out: 0.008+/-0.000 χ^2/NDF : 1436214.5/35

All: 0.008+/-0.000 χ^2/NDF : 2746572.1/67

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.270+/-0.000 χ^2/NDF : 9144073900.9/16

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.326+/-0.000 χ^2/NDF : 9296296697.2/14

Left: -2.297+/-0.000 χ^2/NDF : 18689005687.9/31

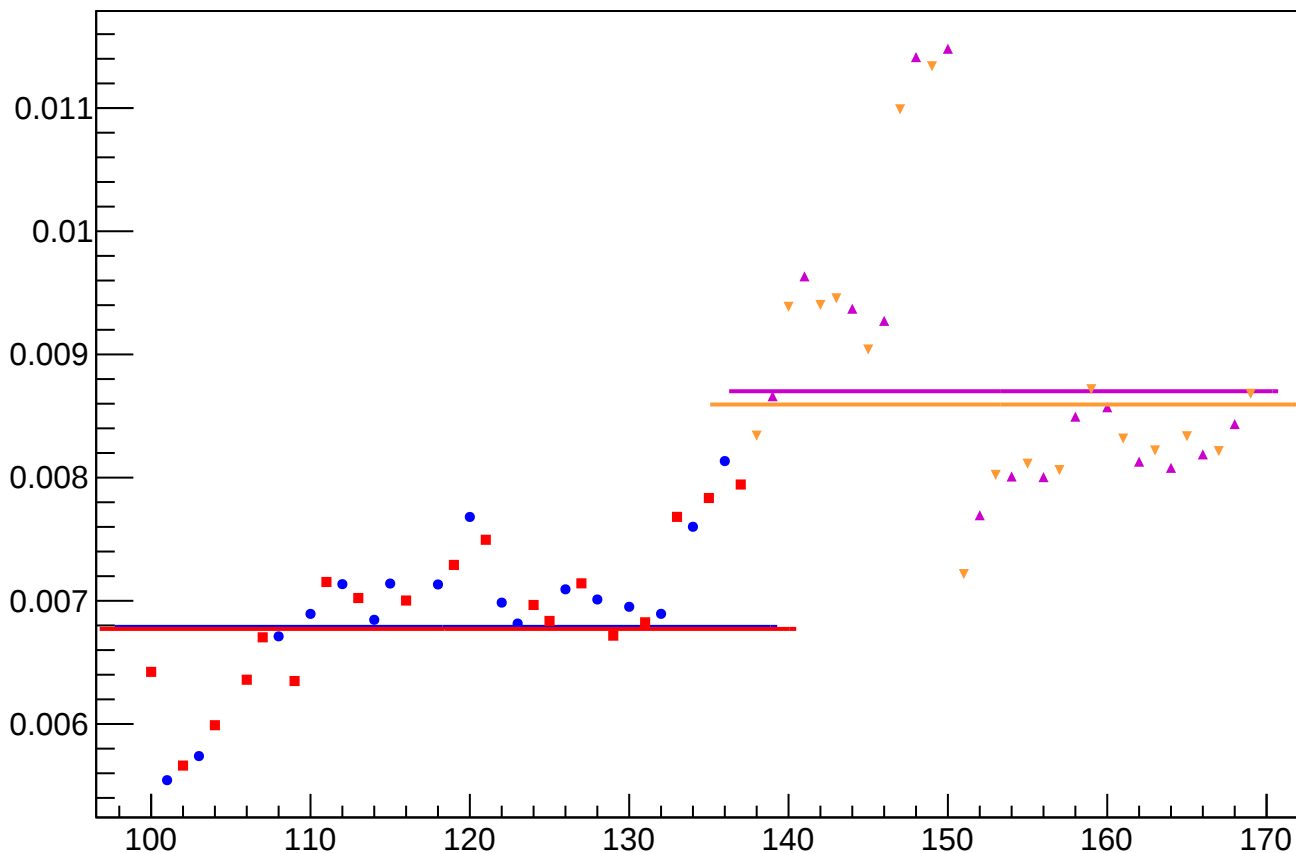
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.315+/-0.000 χ^2/NDF : 83092980257.6/31

Out: -2.301+/-0.000 χ^2/NDF : 73986316901.8/35

All: -2.308+/-0.000 χ^2/NDF : 157106212355.1

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 : 289813.5/16

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 : 588706.0/31

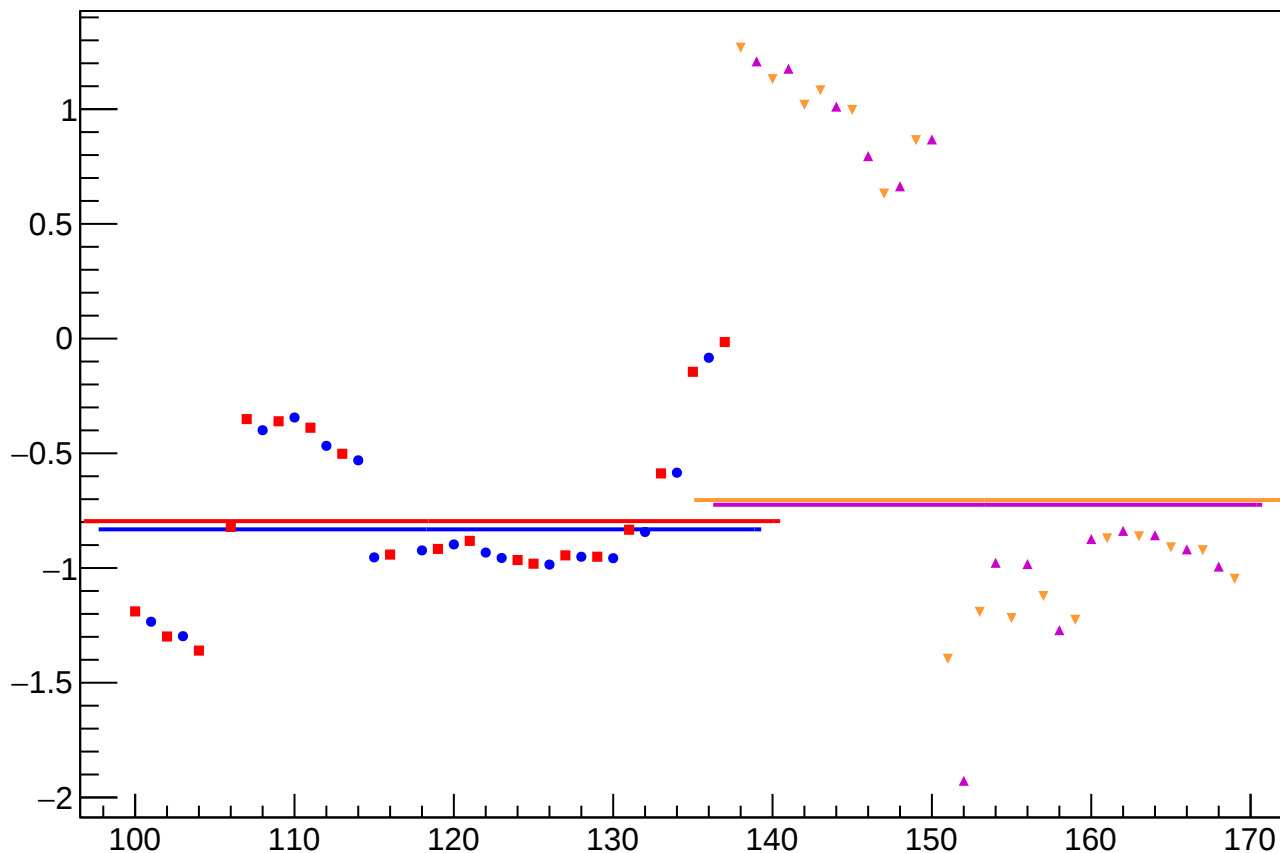
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1003600.5/31

Out: 0.008+/-0.000 χ^2/NDF : 947493.9/35

All: 0.008+/-0.000 χ^2/NDF : 1951732.5/67

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.714+/-0.000

χ^2/NDF : 233849639813.3/31

Left Out: -0.704+/-0.000

χ^2/NDF : 113999899504.2/16

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.752+/-0.000

χ^2/NDF : 126984082154.3/31

Out: -0.727+/-0.000

χ^2/NDF : 122195918223.7/35

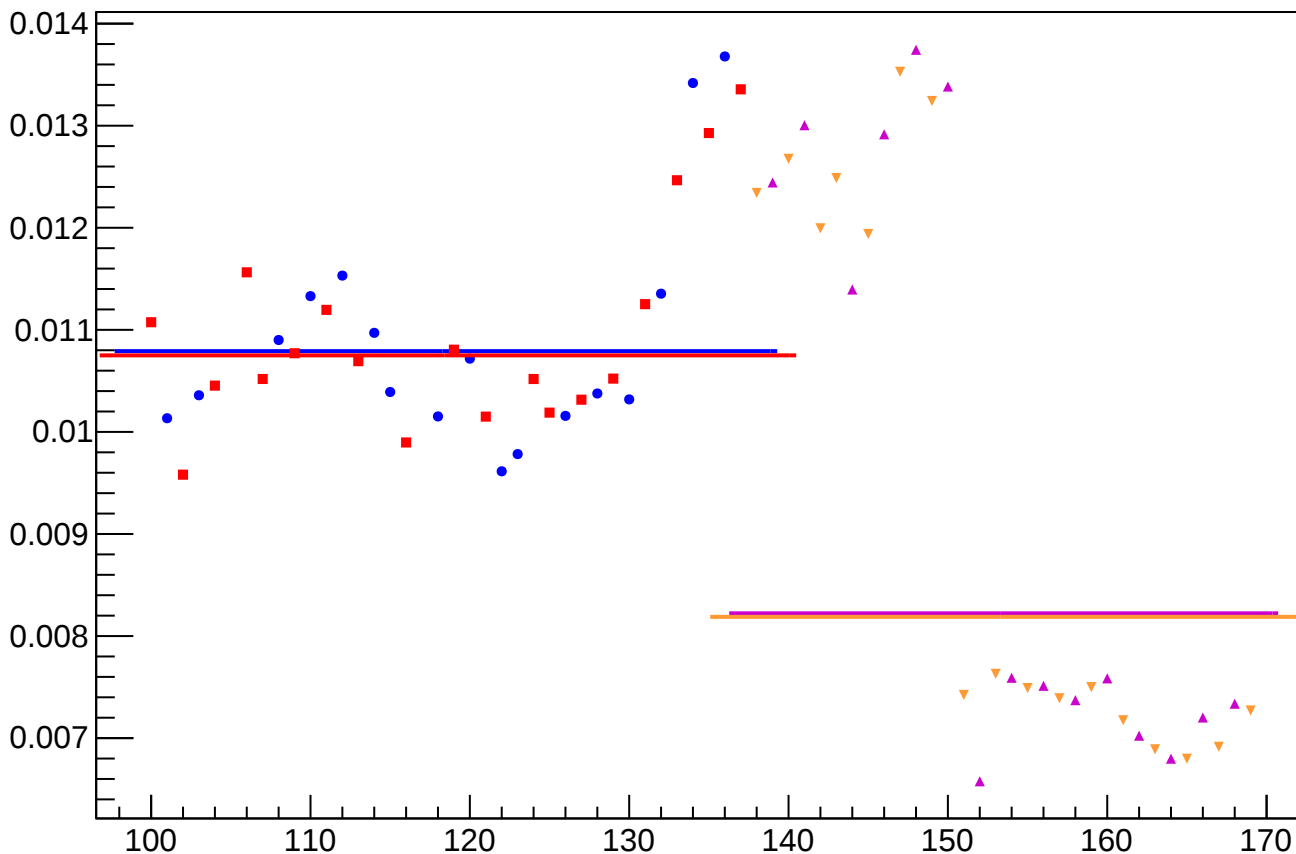
Left In: -0.724+/-0.000

χ^2/NDF : 119814492938.8/14

All: -0.739+/-0.000

χ^2/NDF : 249251603447.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1489885.4/16

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1517645.1/14

Left: 0.008+/-0.000 χ^2/NDF : 3007727.3/31

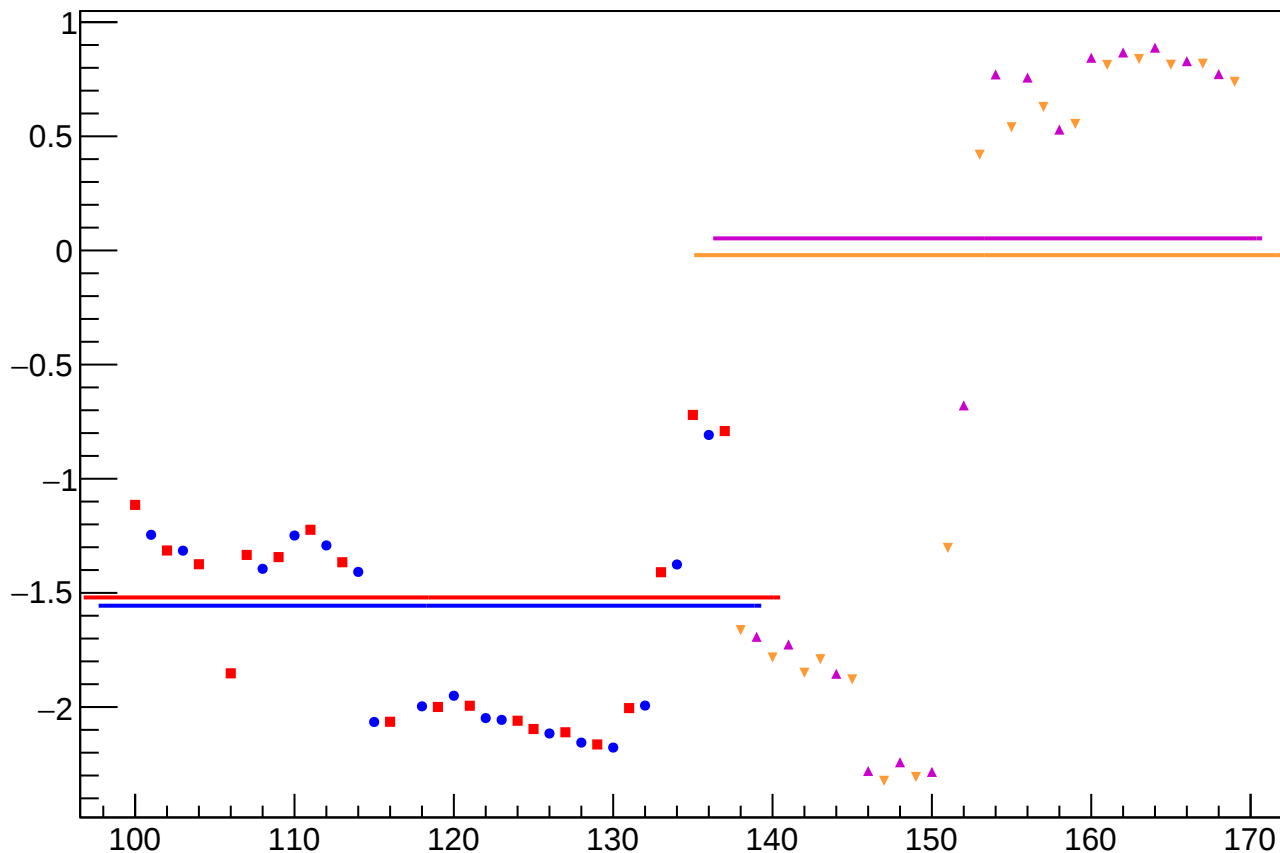
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2192382.2/31

Out: 0.009+/-0.000 χ^2/NDF :2162972.0/35

All: 0.009+/-0.000 χ^2/NDF : 4356013.3/67

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2 /NDF: 154972763568.8/16

Left Out: -0.021+/-0.000 χ^2 /NDF: 2152260507657.2/16

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: 0.014+/-0.000 χ^2 /NDF: 4128078910067.6/31

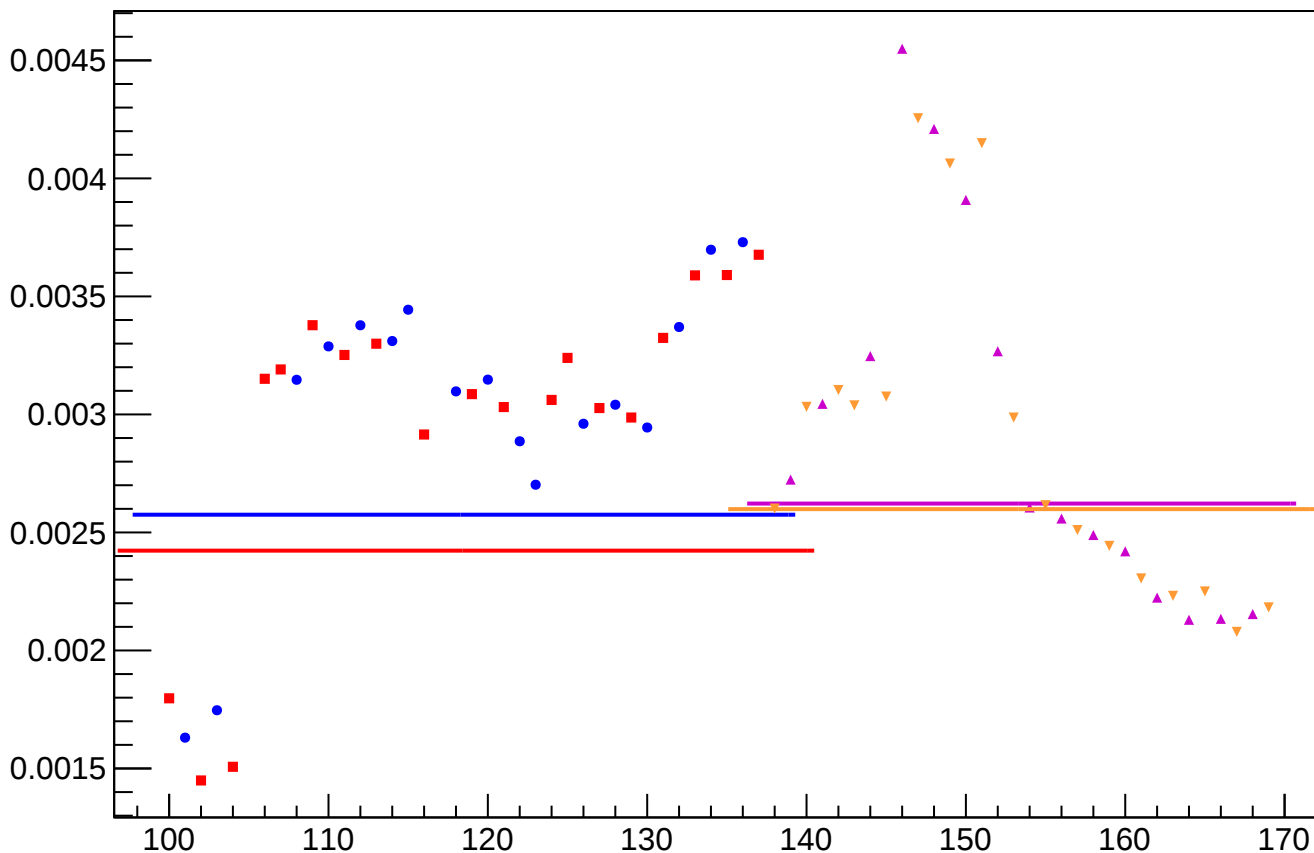
Right: -1.537+/-0.000 χ^2 /NDF: 294029827862.9/35

In: -0.544+/-0.000 χ^2 /NDF: 3516141580376.6/31

Out: -0.582+/-0.000 χ^2 /NDF: 3648697033015.5/35

All: -0.564+/-0.000 χ^2 /NDF: 7166600963166

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 :874933.9/16

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 : 1782882.0/31

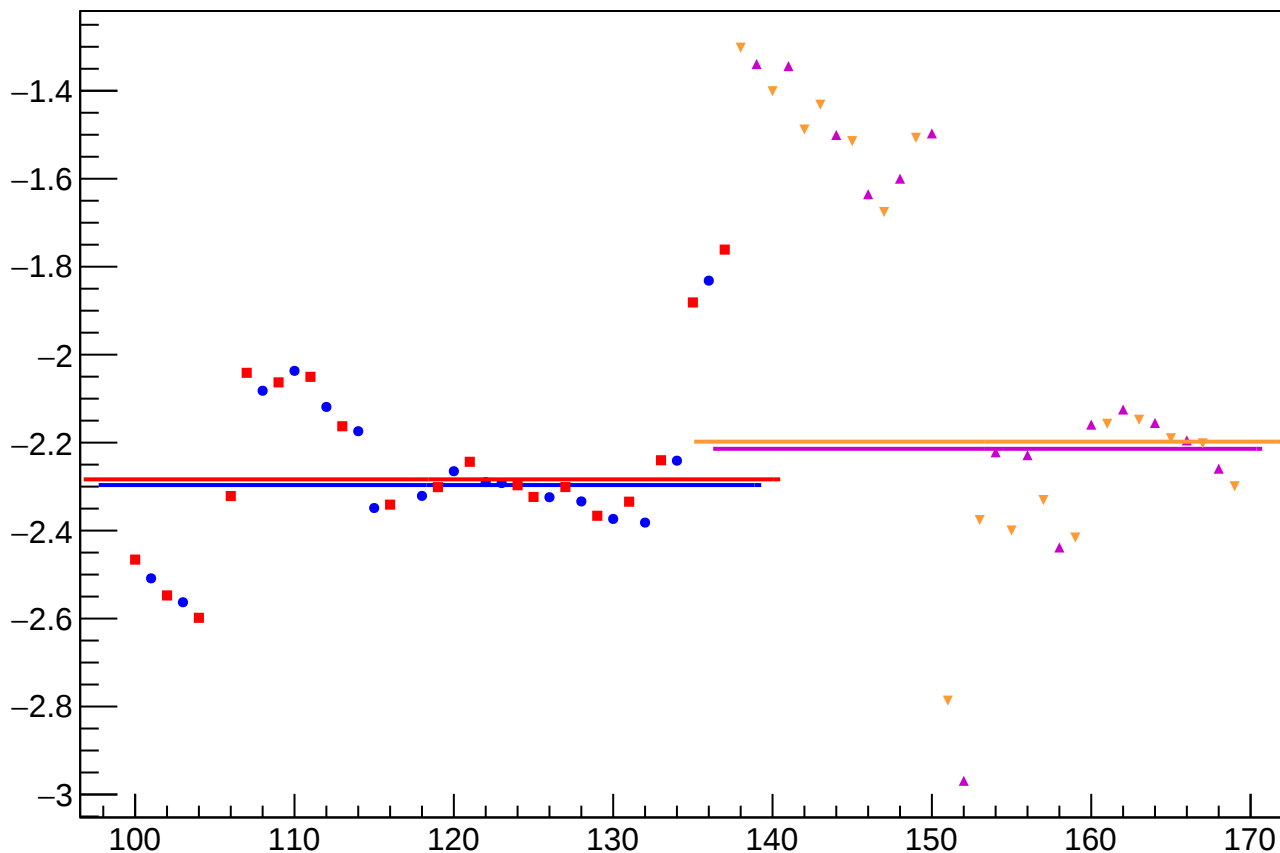
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF :1923324.1/31

Out: 0.003+/-0.000 χ^2/NDF :2402420.3/35

All: 0.003+/-0.000 χ^2/NDF : 4338349.3/67

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.198+/-0.000 χ^2/NDF : 51486982677.7/16

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.214+/-0.000 χ^2/NDF : 66344947471.7/14

Left: -2.206+/-0.000 χ^2/NDF : 117888494065.7/31

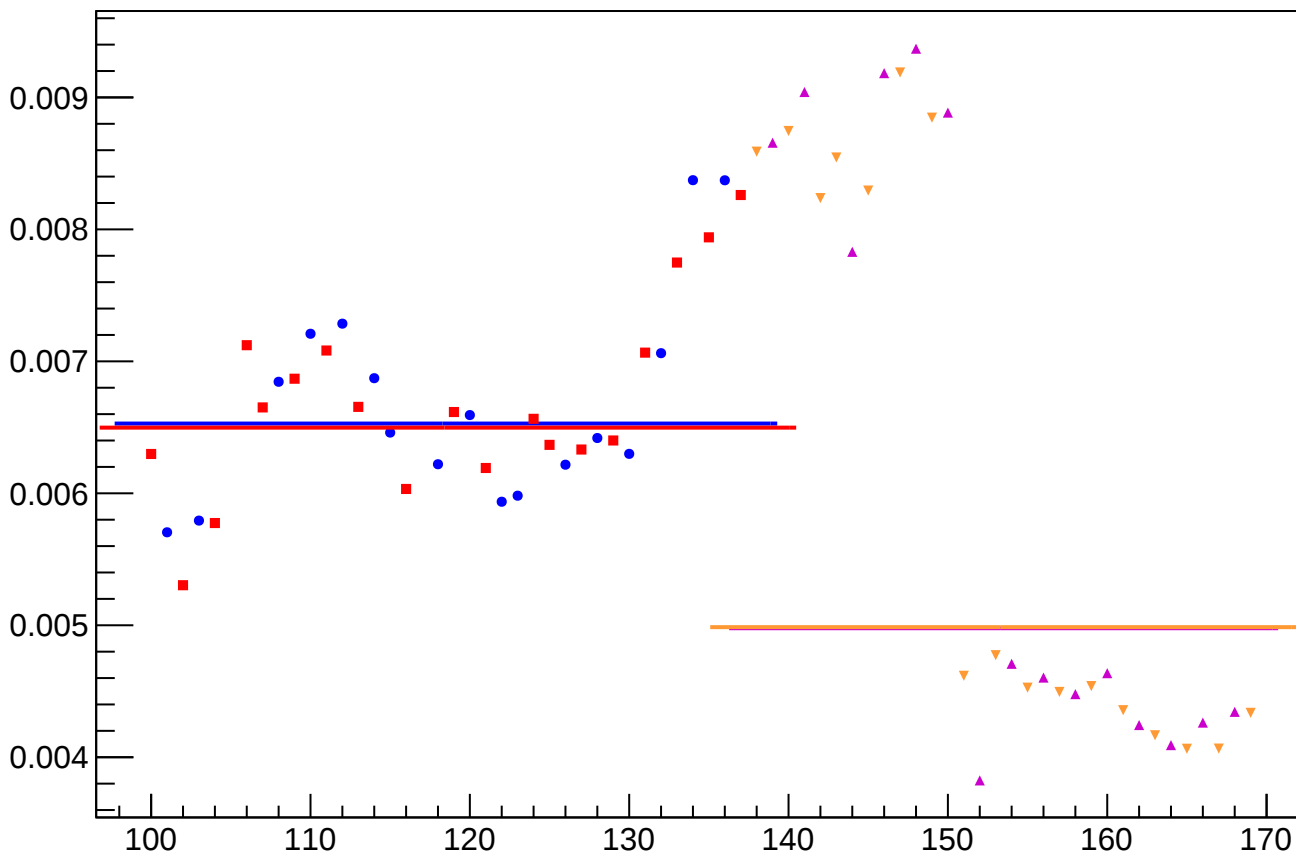
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.236+/-0.000 χ^2/NDF : 72881223133.2/31

Out: -2.220+/-0.000 χ^2/NDF : 58903392067.2/35

All: -2.228+/-0.000 χ^2/NDF : 131858224402.8

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF : 2041038.7/16

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 2099515.7/14

Left: 0.005+/-0.000 χ^2/NDF : 4140582.3/31

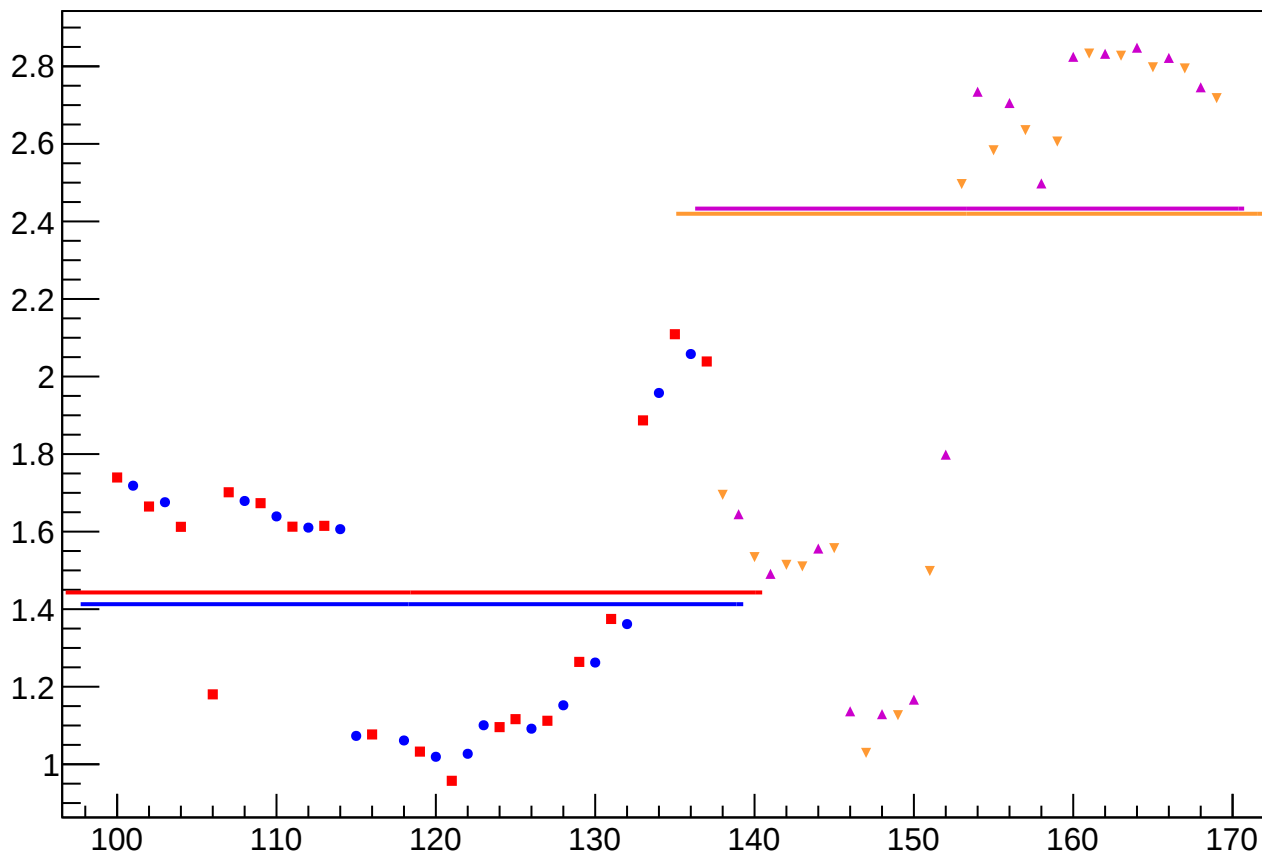
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF : 2809403.5/31

Out: 0.005+/-0.000 χ^2/NDF : 2746340.2/35

All: 0.005+/-0.000 χ^2/NDF : 5555815.5/67

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.420+/-0.000 χ^2/NDF : 229750841520.6/16

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: 2.426+/-0.000 χ^2/NDF : 454825592133.8/31

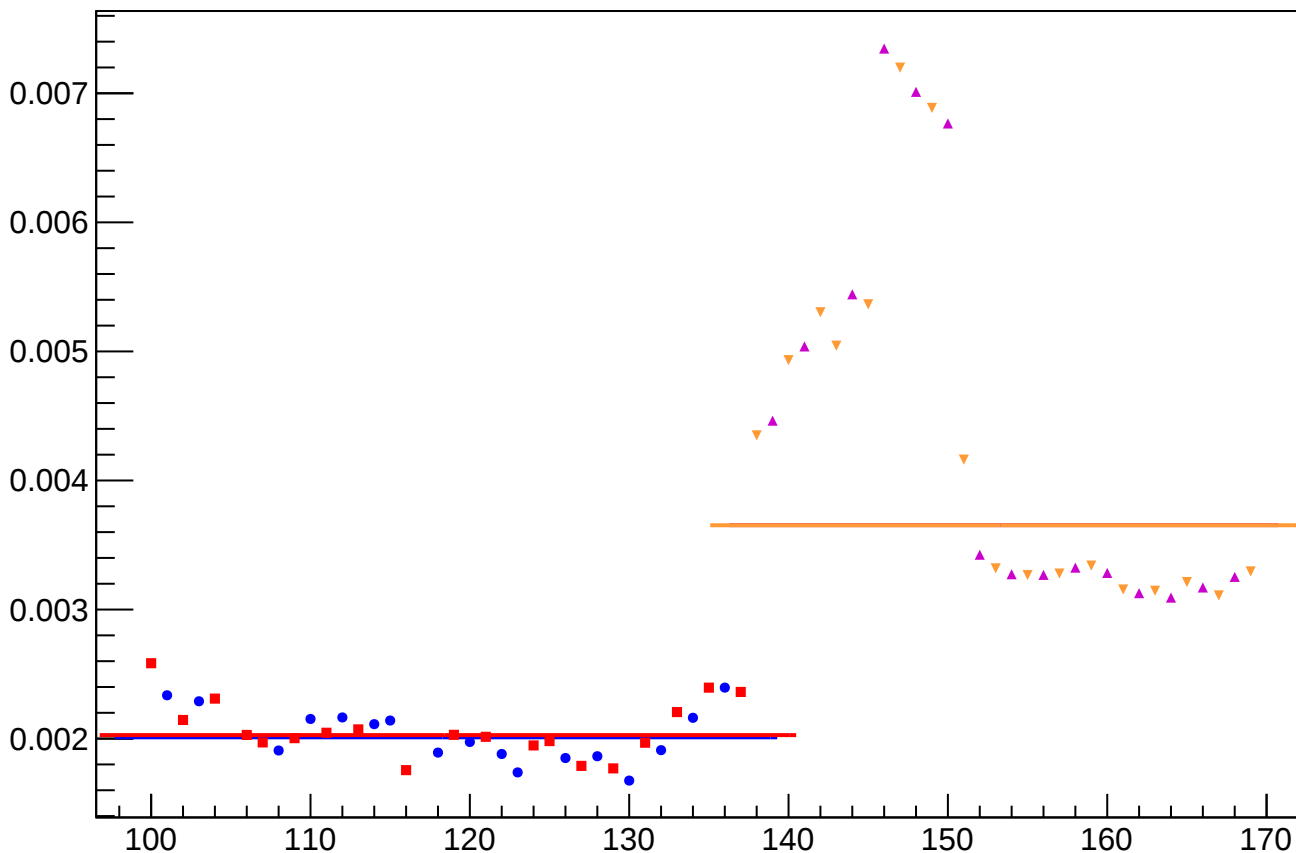
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.751+/-0.000 χ^2/NDF : 925070041254.4/31

Out: 1.781+/-0.000 χ^2/NDF : 923950454324.5/35

All: 1.767+/-0.000 χ^2/NDF : 1850048149996.

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 :1274450.9/16

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 : 2717489.3/31

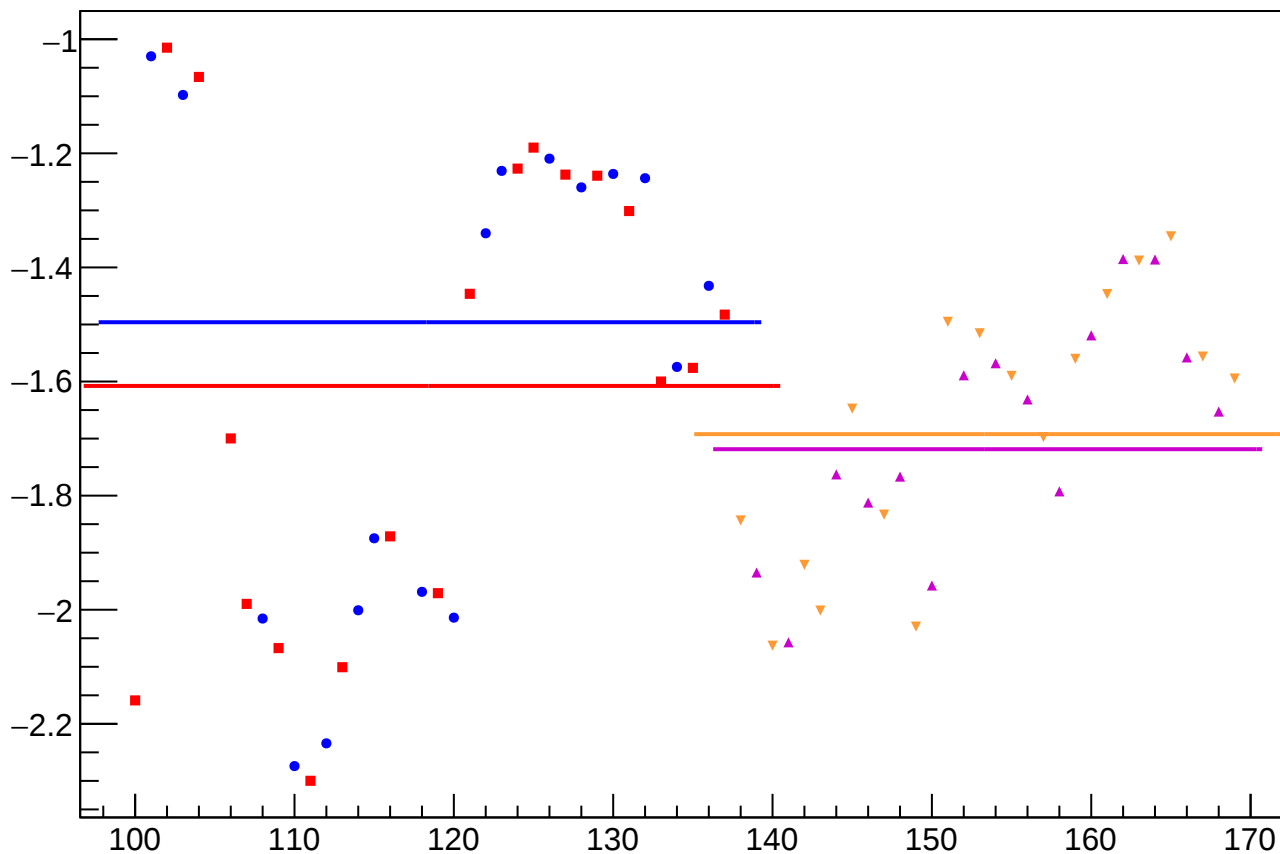
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4334630.6/31

Out: 0.003+/-0.000 χ^2/NDF :4265725.8/35

All: 0.003+/-0.000 χ^2/NDF : 8603068.0/67

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.692+/-0.000 χ^2/NDF : 15674064088.6/16

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.719+/-0.000 χ^2/NDF : 10727054464.5/14

Left: -1.705+/-0.000 χ^2/NDF : 26503527598.5/31

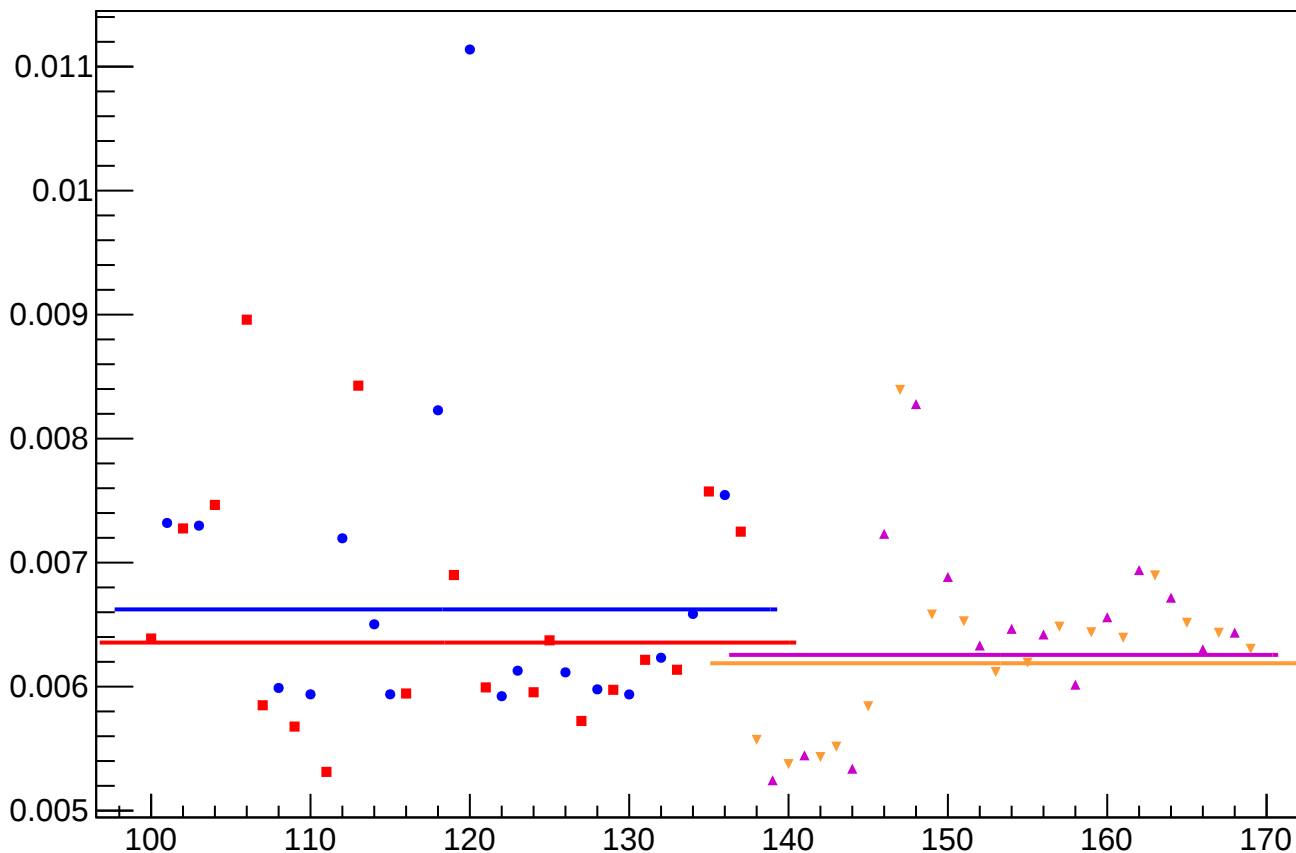
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.645+/-0.000 χ^2/NDF : 37840963122.2/31

Out: -1.663+/-0.000 χ^2/NDF : 44274740569.5/35

All: -1.654+/-0.000 χ^2/NDF : 82192541734.1/71

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 :226434.4/16

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 : 516053.0/31

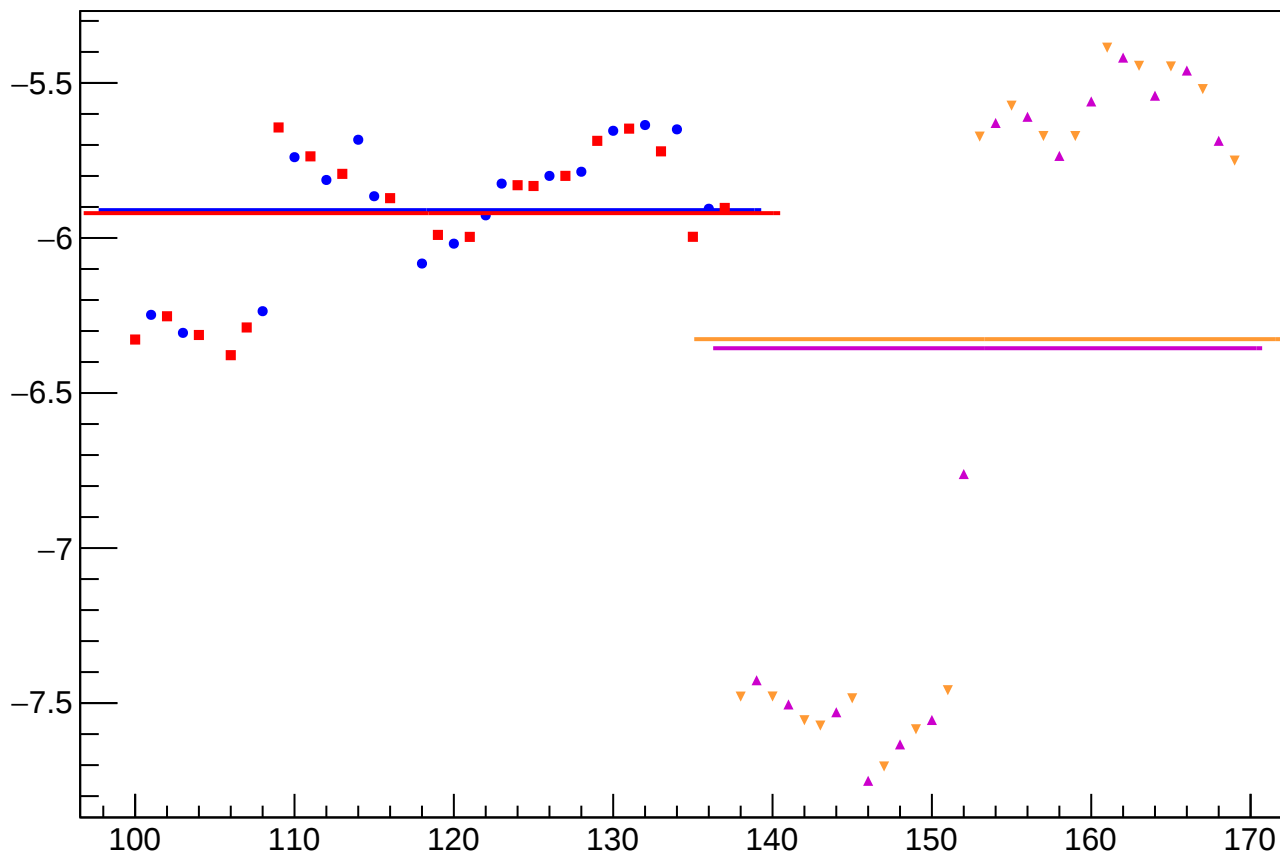
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :545839.0/31

Out: 0.006+/-0.000 χ^2/NDF :460254.3/35

All: 0.006+/-0.000 χ^2/NDF : 1013852.7/67

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.326+/-0.000 χ^2/NDF : 163020258472.0/16

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: -6.340+/-0.000 χ^2/NDF : 296658150621.6/31

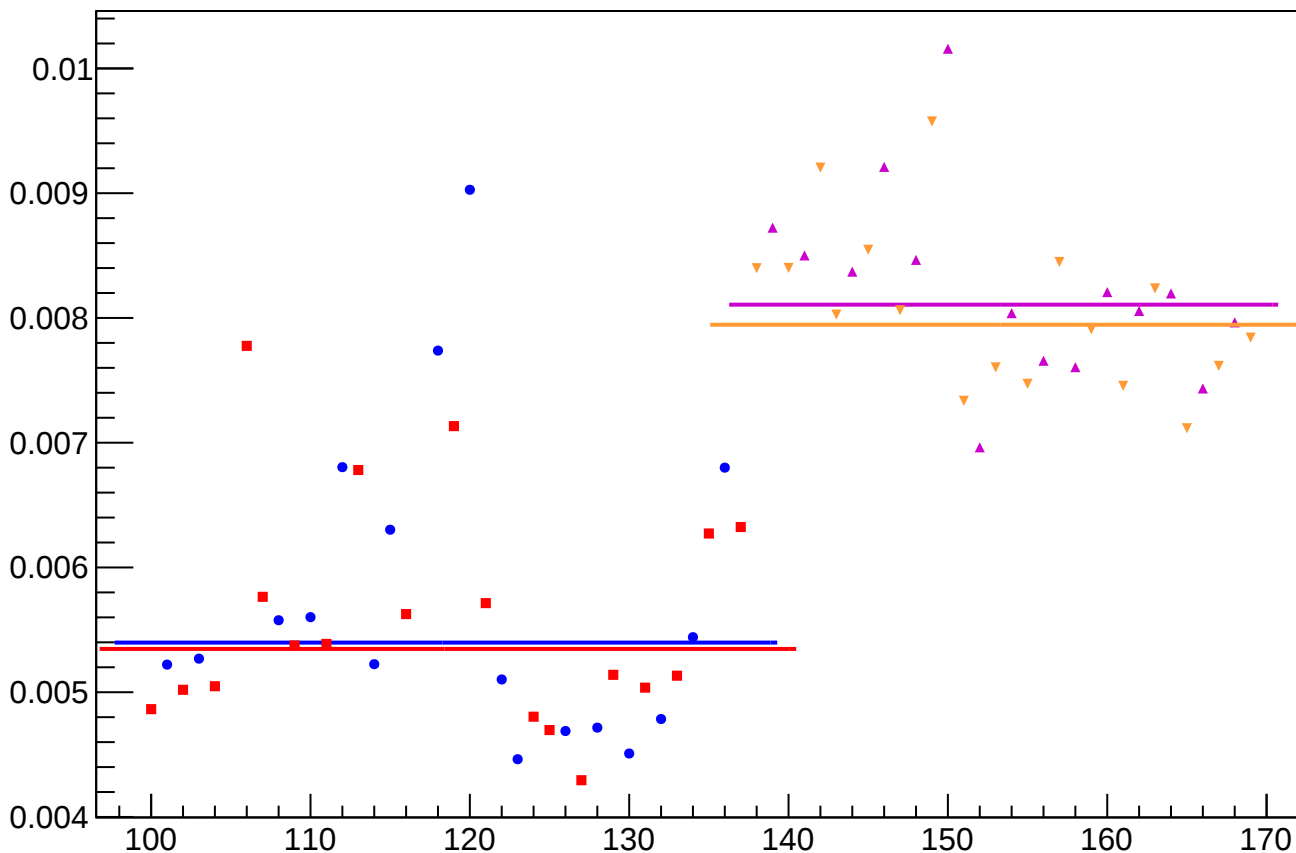
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.105+/-0.000 χ^2/NDF : 162352586999.8/31

Out: -6.099+/-0.000 χ^2/NDF : 192052443854.3/35

All: -6.102+/-0.000 χ^2/NDF : 354411912003.4

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 :115729.5/16

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 : 271590.6/31

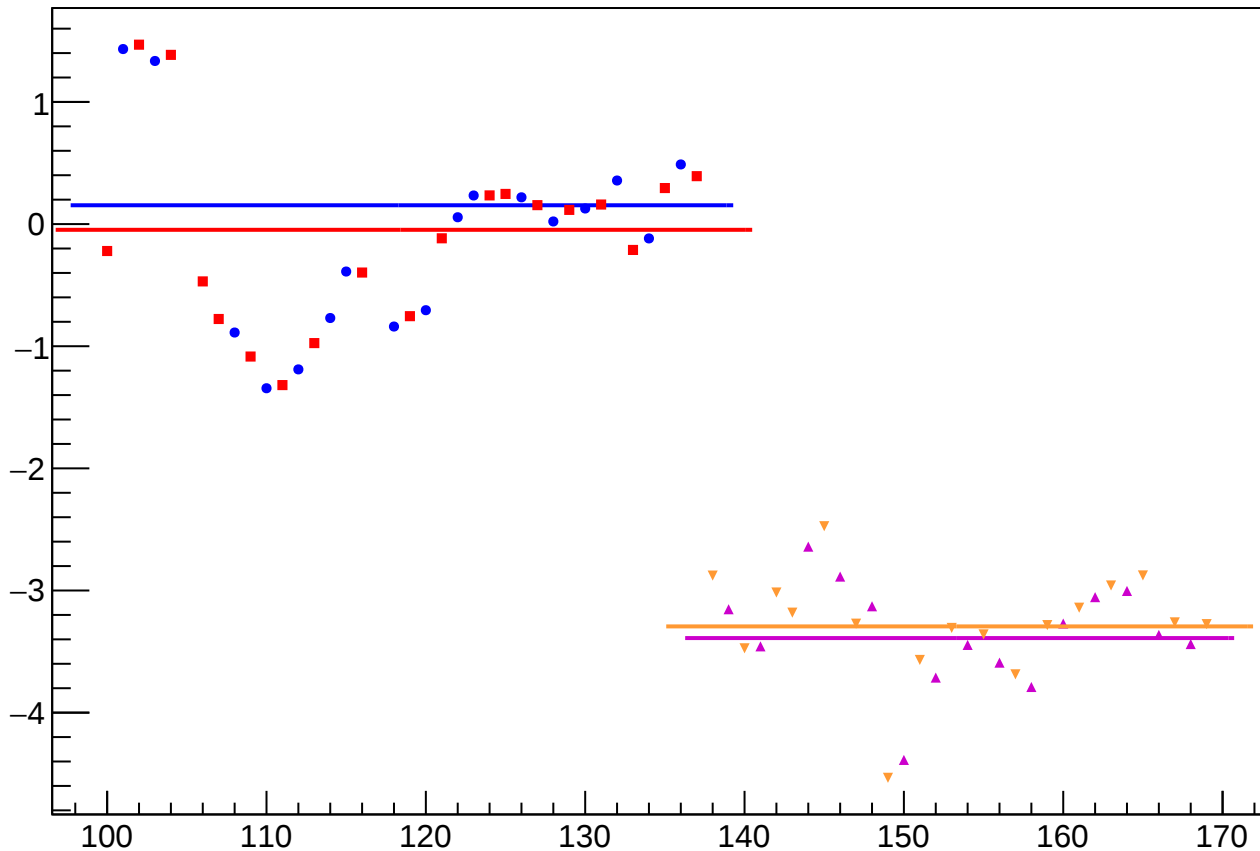
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1827307.9/31

Out: 0.006+/-0.000 χ^2/NDF :1693728.9/35

All: 0.007+/-0.000 χ^2/NDF : 3524121.4/67

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.294+/-0.000 χ^2/NDF : 7934044991.2/16

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: -3.339+/-0.000 χ^2/NDF : 14998990186.8/31

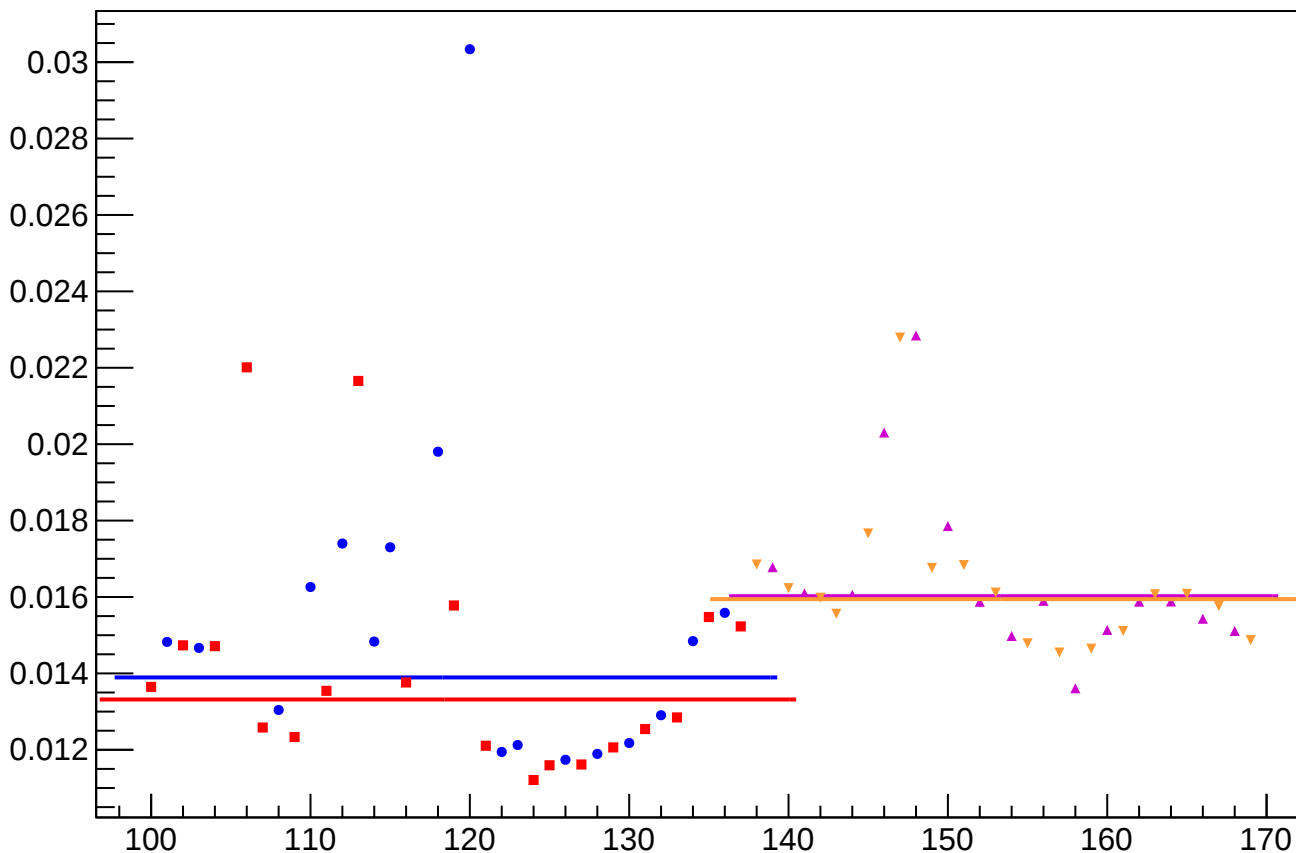
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.914+/-0.000 χ^2/NDF : 248665338387.0/31

Out: -1.883+/-0.000 χ^2/NDF : 246322155118.4/35

All: -1.898+/-0.000 χ^2/NDF : 495026039515.0

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :203301.8/16

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :283488.3/14

Left: 0.016+/-0.000 χ^2/NDF : 487060.4/31

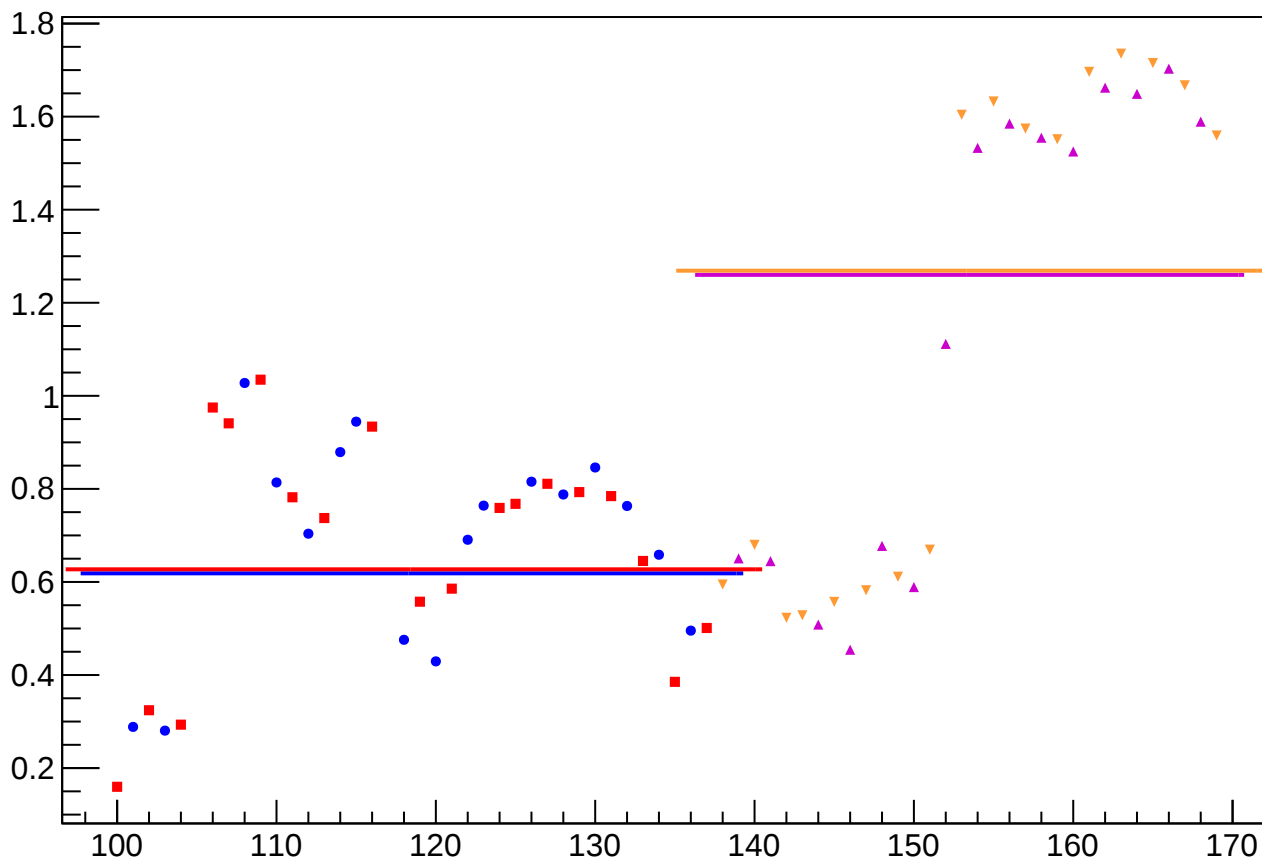
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :845989.5/31

Out: 0.015+/-0.000 χ^2/NDF :778849.7/35

All: 0.015+/-0.000 χ^2/NDF : 1633561.7/67

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.269+/-0.000 χ^2/NDF : 65398718681.5/16

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: 1.264+/-0.000 χ^2/NDF : 119397849815.1/31

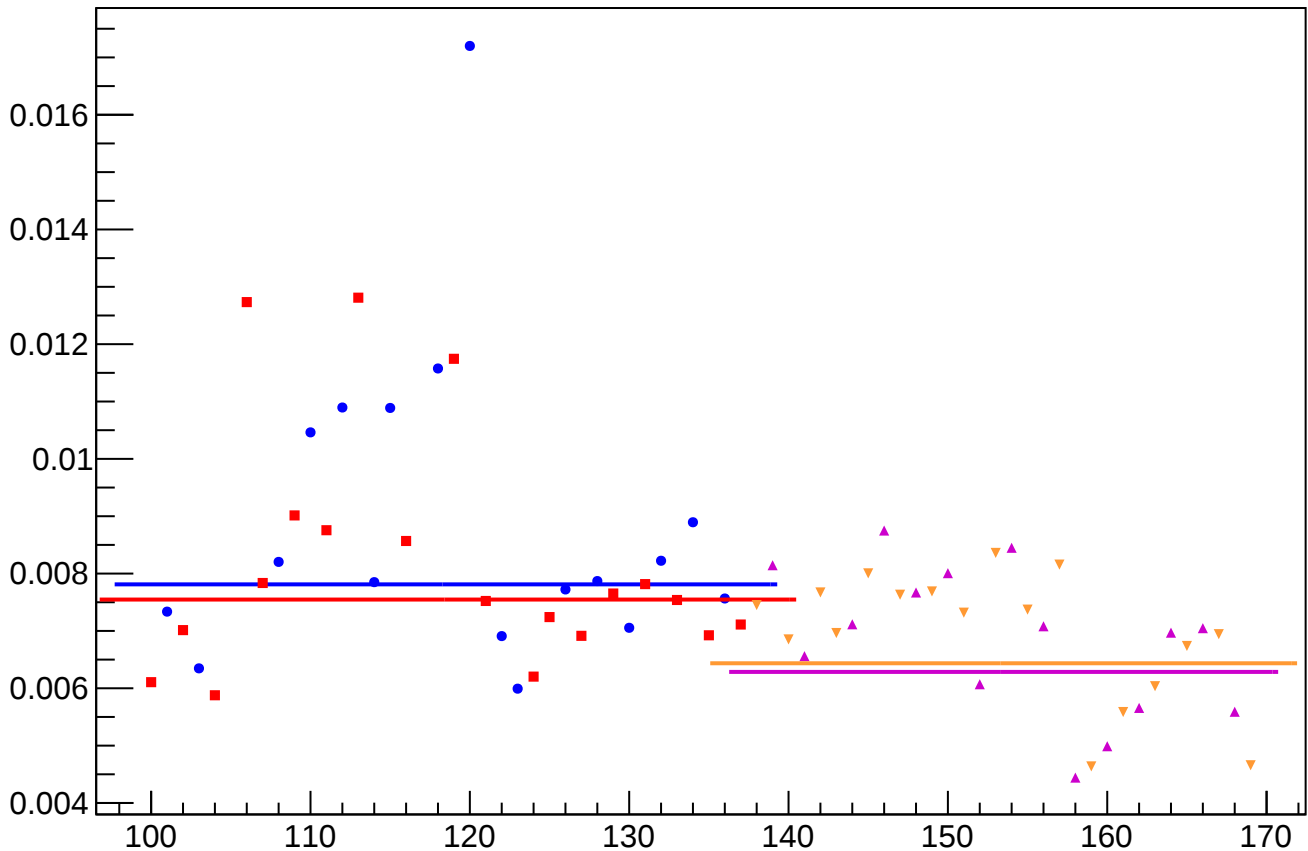
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.091+/-0.000 χ^2/NDF : 88285490654.2/31

Out: 1.085+/-0.000 χ^2/NDF : 103700653783.8/35

All: 1.088+/-0.000 χ^2/NDF : 191991630213.5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF : 877766.1/16

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 : 1769244.1/31

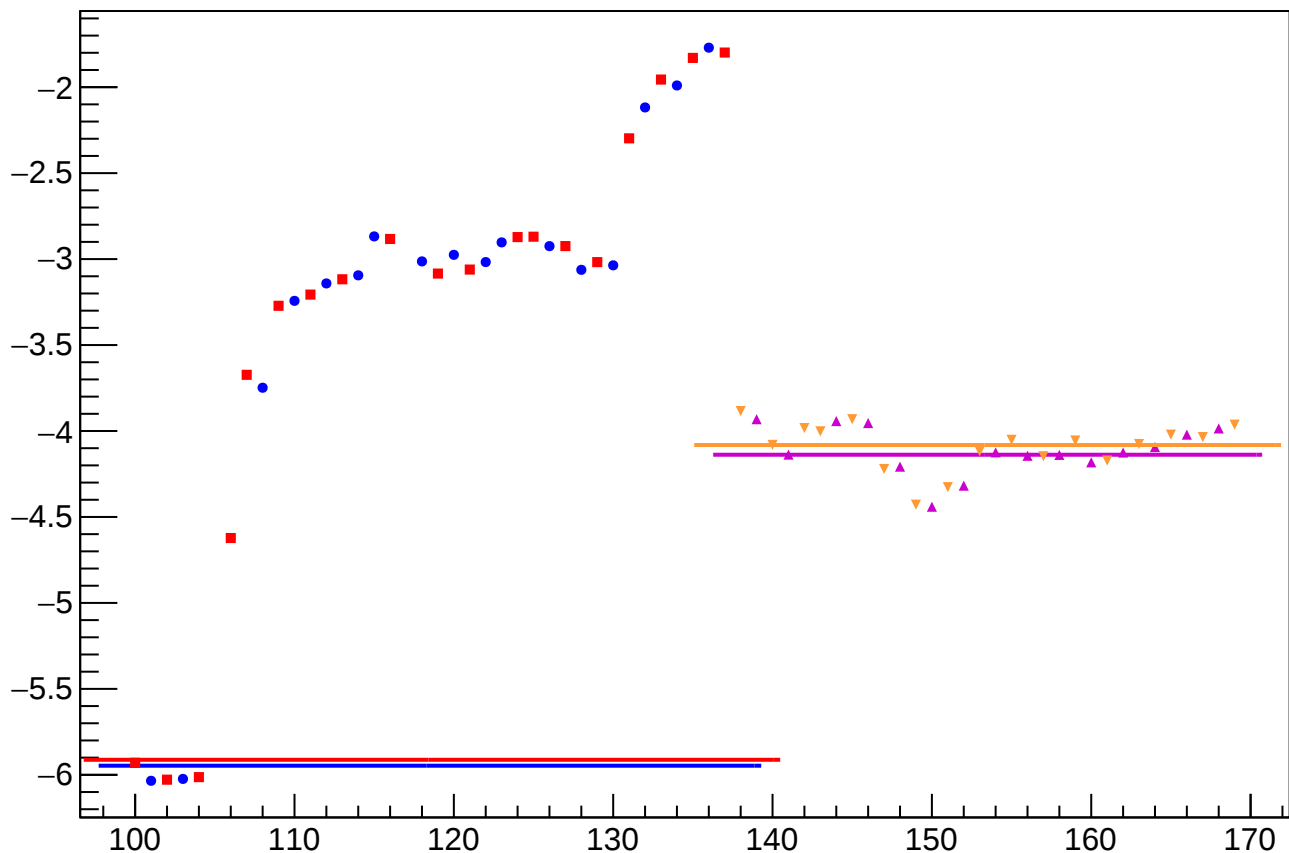
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1679326.6/31

Out: 0.007+/-0.000 χ^2/NDF : 1511191.6/35

All: 0.007+/-0.000 χ^2/NDF : 3192120.2/67

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.081+/-0.000 χ^2/NDF : 33838741.4/16

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: -4.111+/-0.000 χ^2/NDF : 60984448.6/31

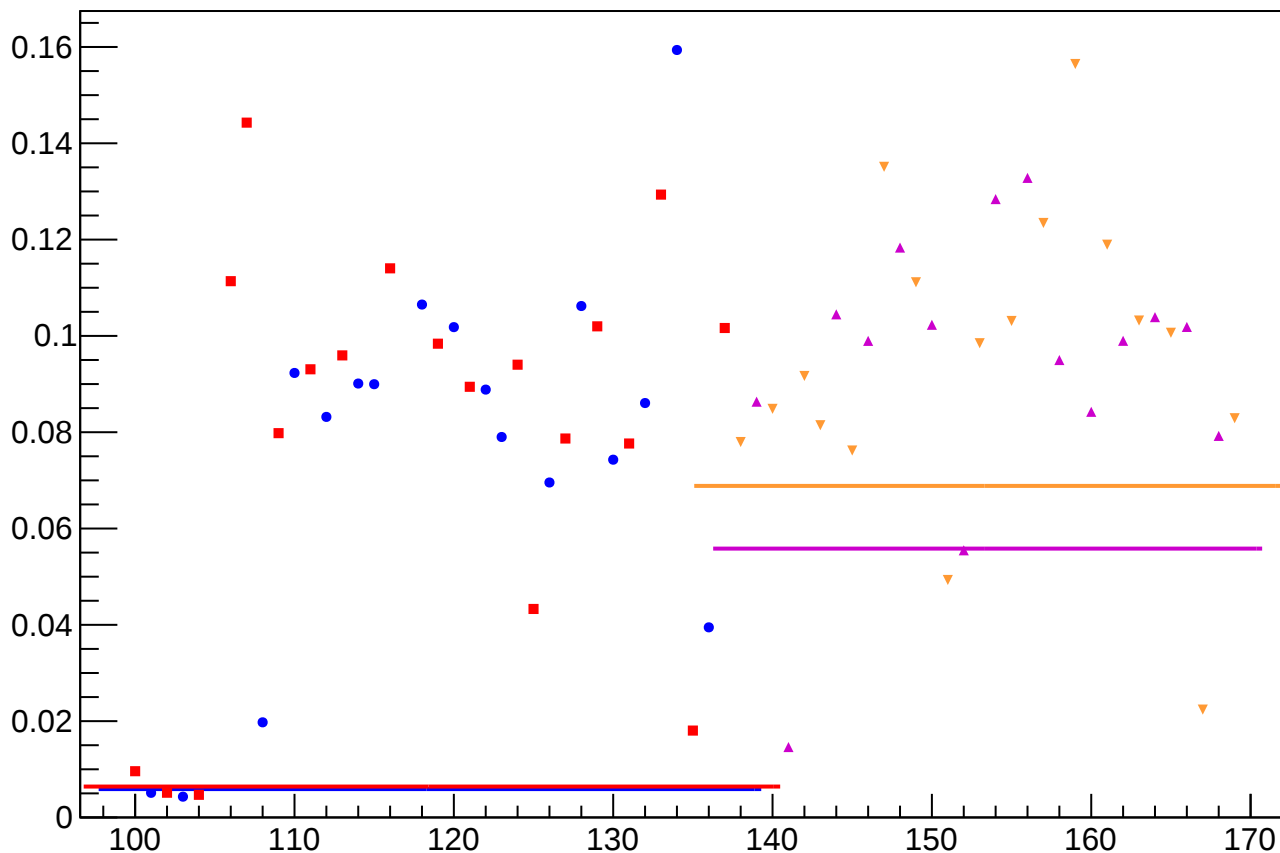
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.877+/-0.000 χ^2/NDF : 19187836427.1/31

Out: -5.831+/-0.000 χ^2/NDF : 20337216575.7/35

All: -5.856+/-0.000 χ^2/NDF : 39571371091.1/70

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.069+/-0.000 χ^2/NDF : 4491935.4/16

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: 0.062+/-0.000 χ^2/NDF : 11249541.6/31

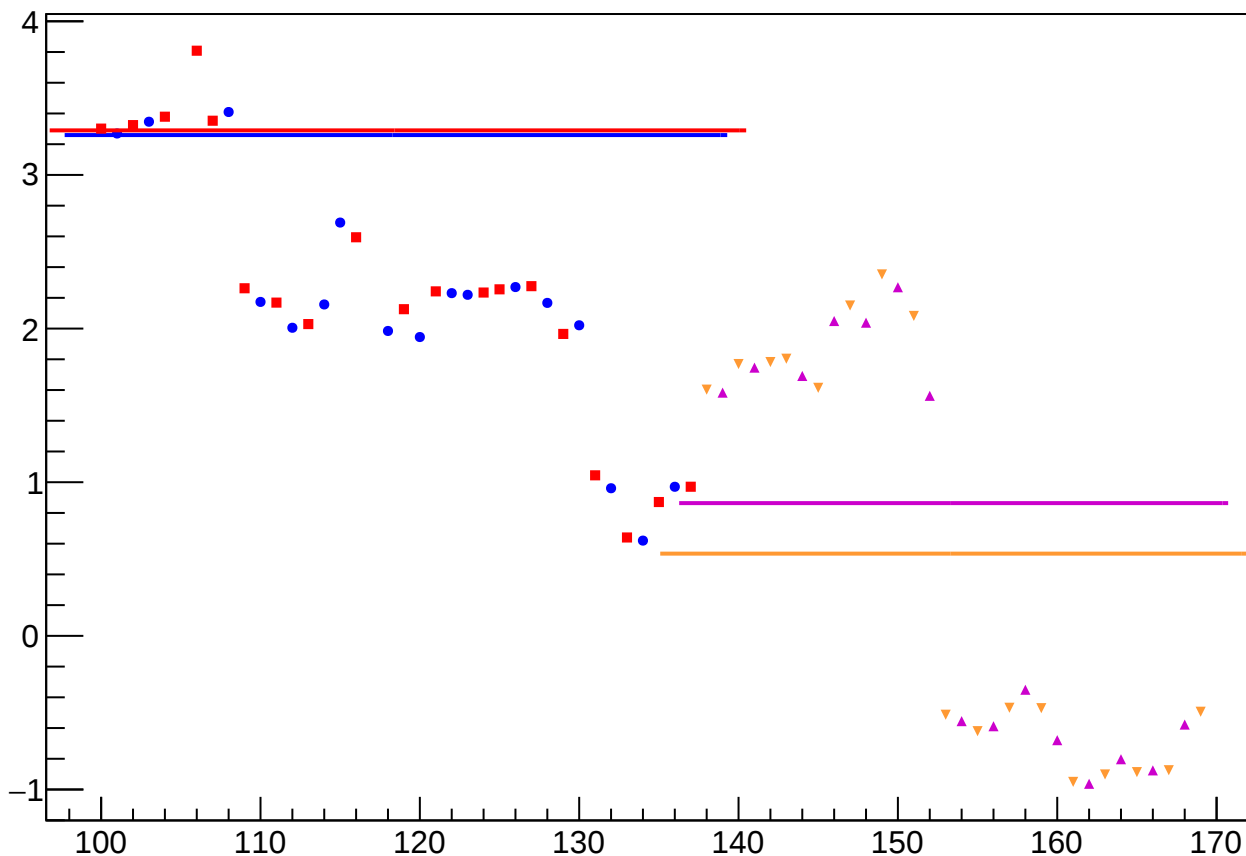
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 23524224.8/31

Out: 0.009+/-0.000 χ^2/NDF : 26207983.3/35

All: 0.008+/-0.000 χ^2/NDF : 49814630.4/67

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.535+/-0.000 χ^2/NDF : 2644578127.6/16

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.864+/-0.000 χ^2/NDF : 1848013245.8/14

Left: 0.688+/-0.000 χ^2/NDF : 4567642197.3/31

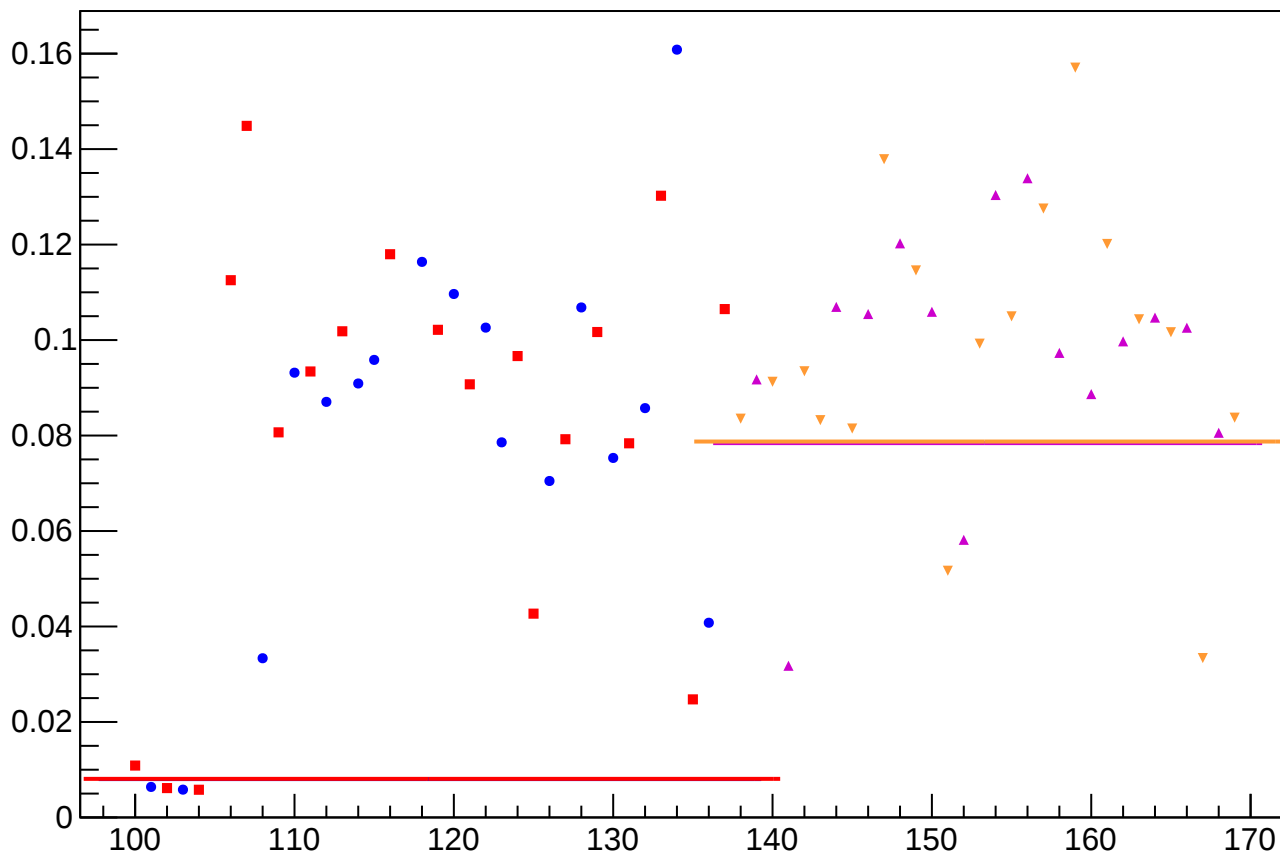
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.156+/-0.000 χ^2/NDF : 11885837831.3/31

Out: 3.143+/-0.000 χ^2/NDF : 16649618453.2/35

All: 3.150+/-0.000 χ^2/NDF : 28538106804.9/6

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 2967024.7/16

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.078 $\pm$ 0.000 χ^2 /NDF: 2746041.3/14

Left: 0.079 $\pm$ 0.000 χ^2 /NDF: 5713217.1/31

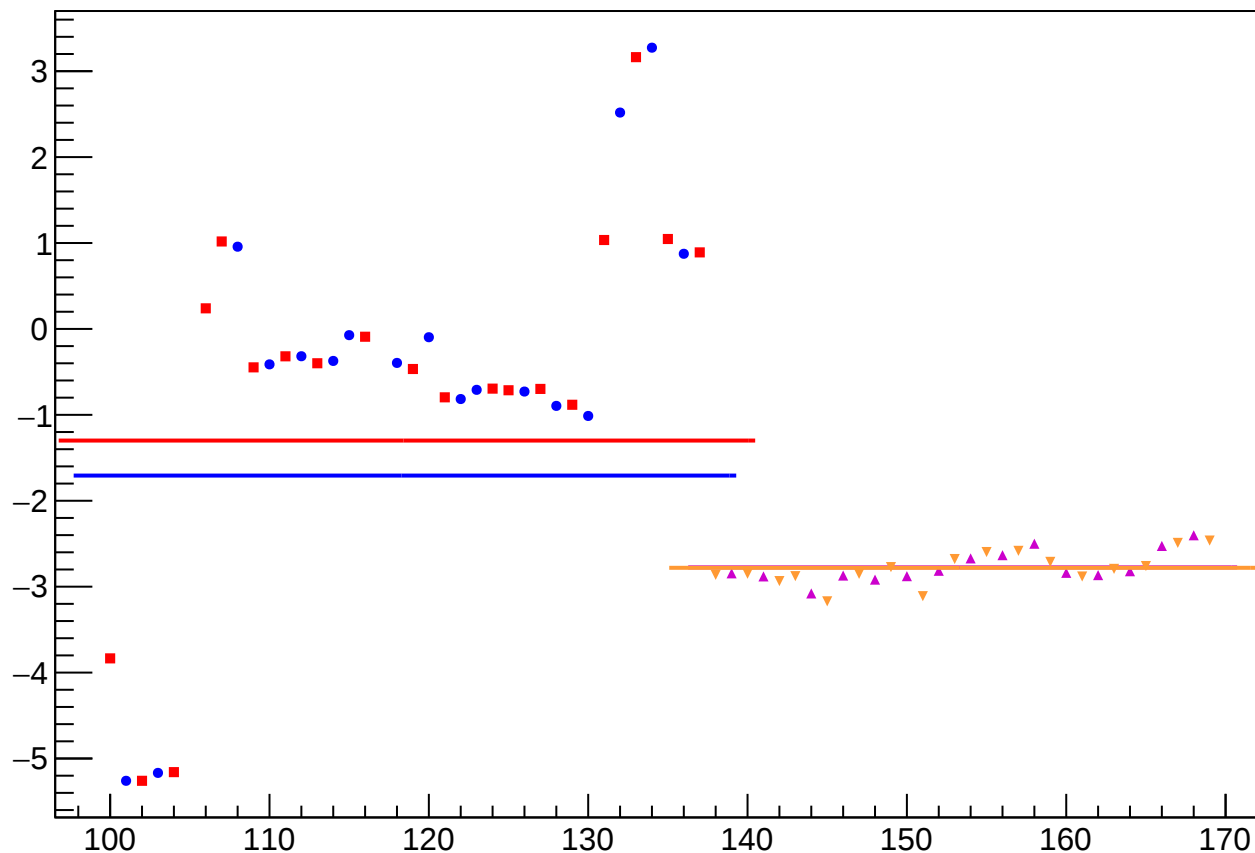
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 22771202.6/31

Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 25412573.3/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 48201809.8/67

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000

χ²/NDF: 166125579390.4/16

Left: -2.778+/-0.000

χ²/NDF: 13382134078.0/31

Left Out: -2.780+/-0.000

χ²/NDF: 7263160098.9/16

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: -2.608+/-0.000

χ²/NDF: 236339270126.8/35

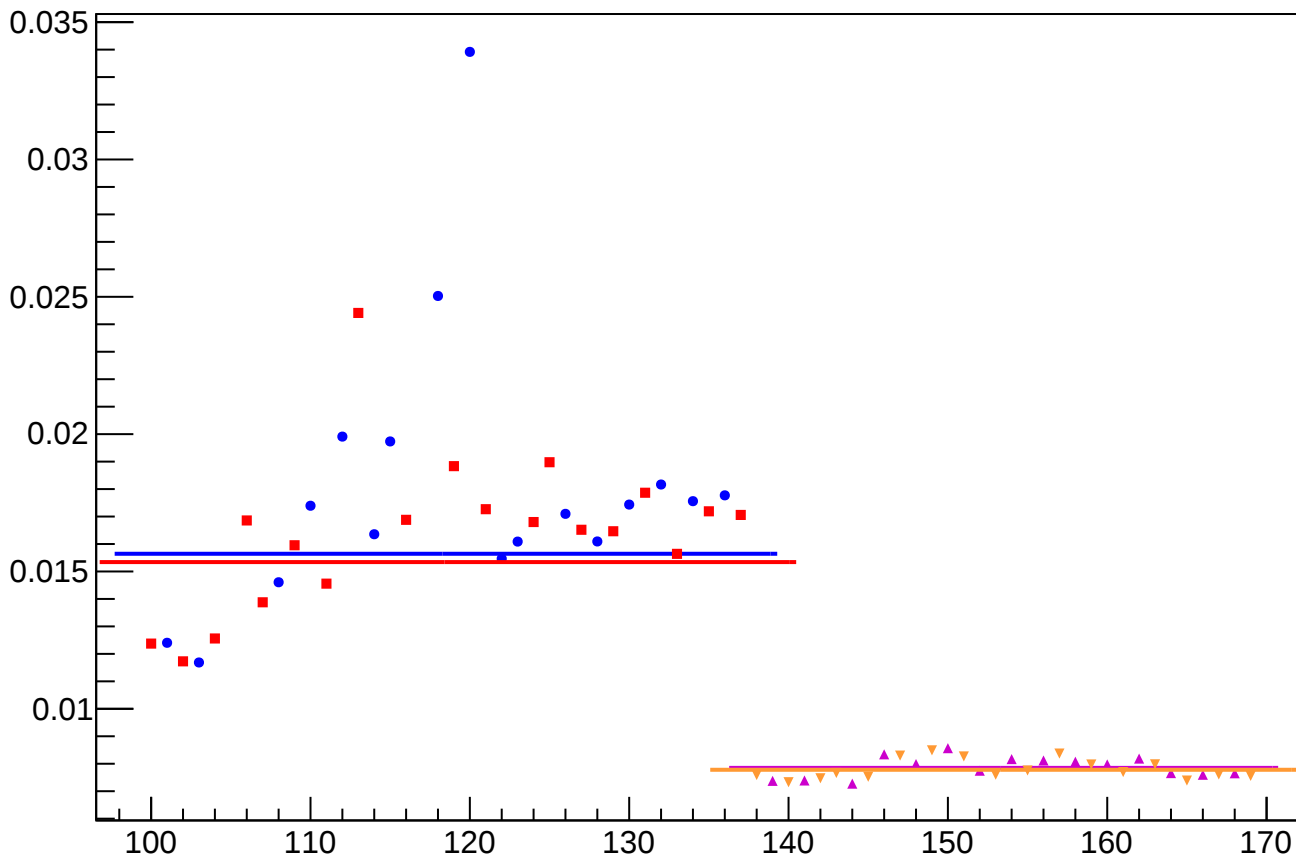
Left In: -2.775+/-0.000

χ²/NDF: 6116530633.1/14

All: -2.631+/-0.000

χ²/NDF: 432041321520.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015+/-0.000 χ^2/NDF : 46937.3/16

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 : 98764.2/31

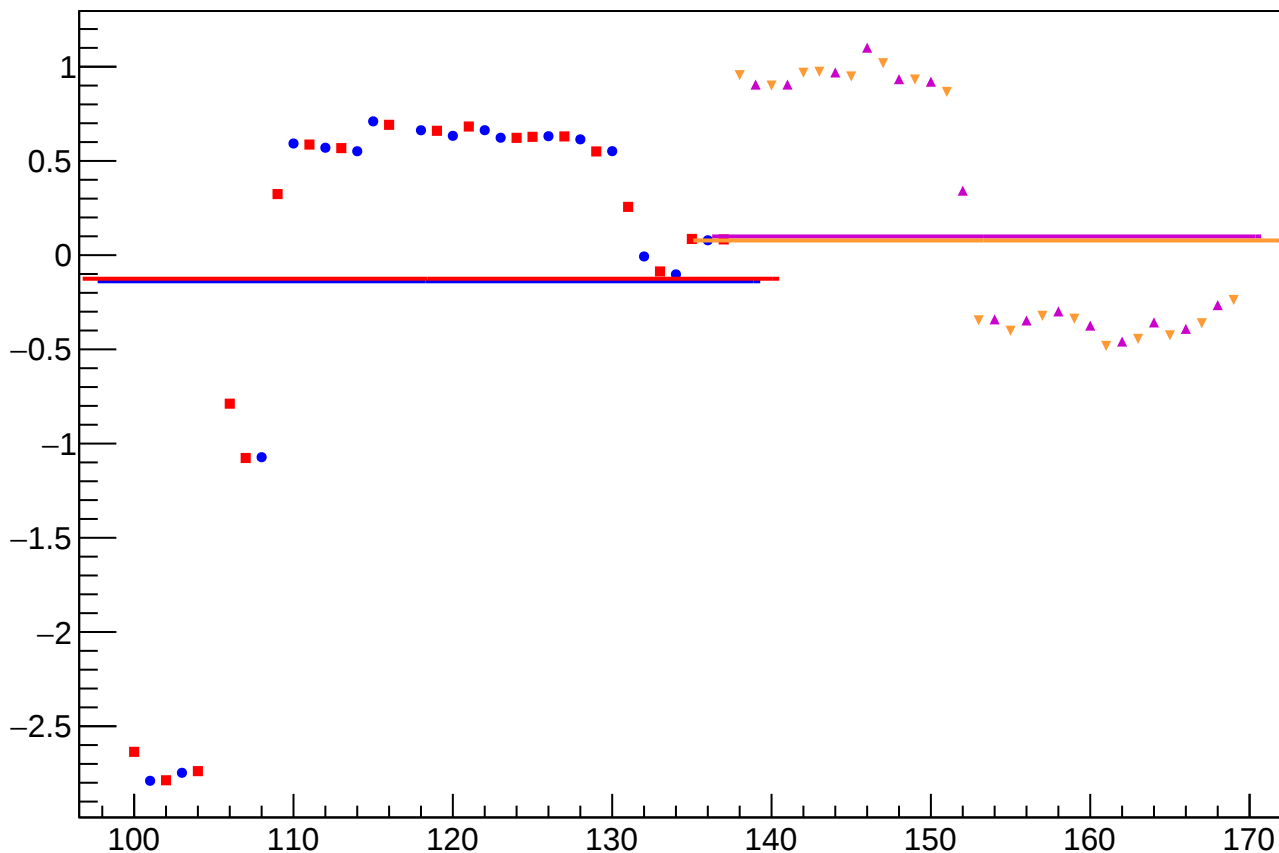
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3100927.4/31

Out: 0.009+/-0.000 χ^2/NDF : 3061515.2/35

All: 0.009+/-0.000 χ^2/NDF : 6163266.0/67

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: 0.088+/-0.000 χ^2/NDF : 222878996694.7/31

Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

Left Out: 0.078+/-0.000

χ^2/NDF : 122637521257.8/16

In: -0.054+/-0.000 χ^2/NDF : 825606454426.1/31

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

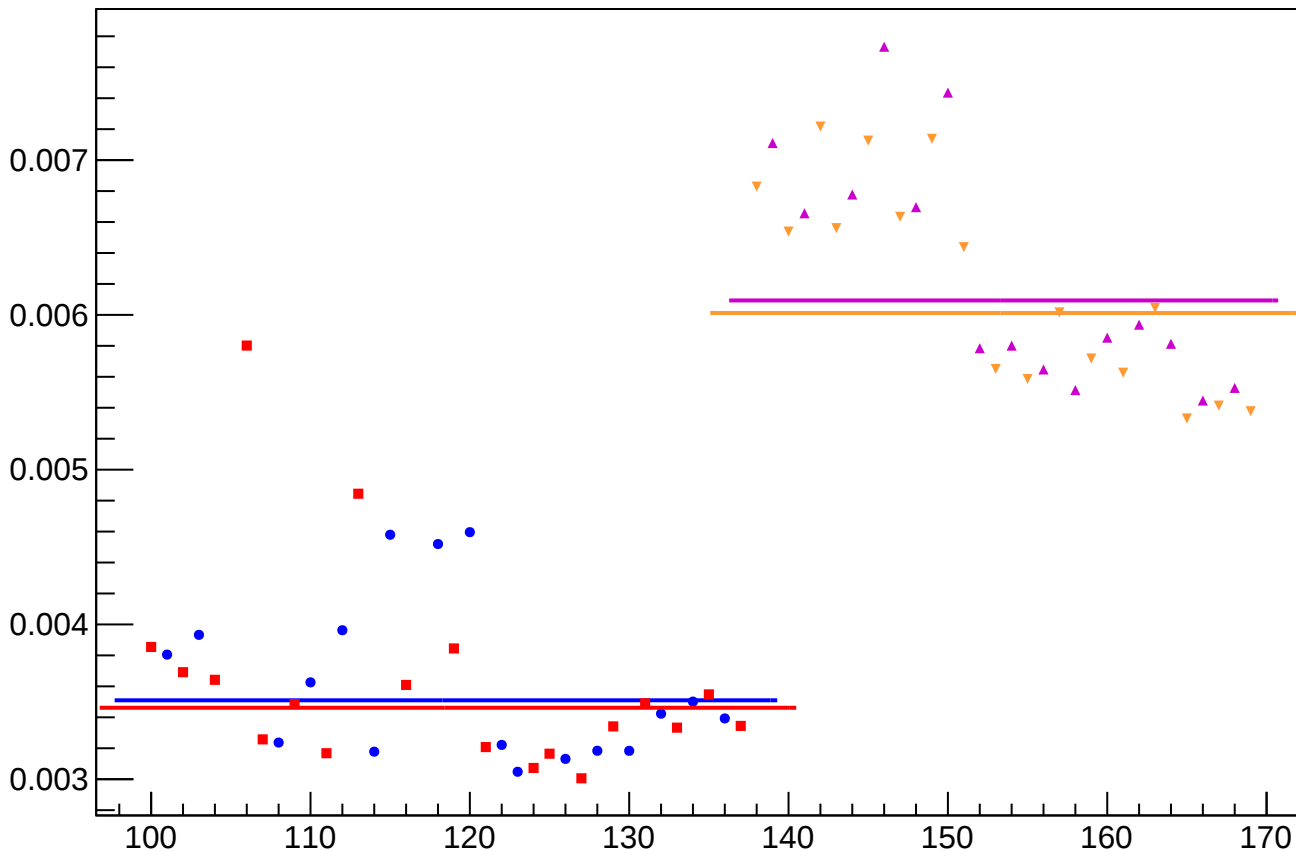
Out: -0.052+/-0.000 χ^2/NDF : 892430459713.3/35

Left In: 0.099+/-0.000

χ^2/NDF : 100173162652.5/14

All: -0.053+/-0.000 χ^2/NDF : 1718037696685

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 :224212.1/16

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 : 468462.1/31

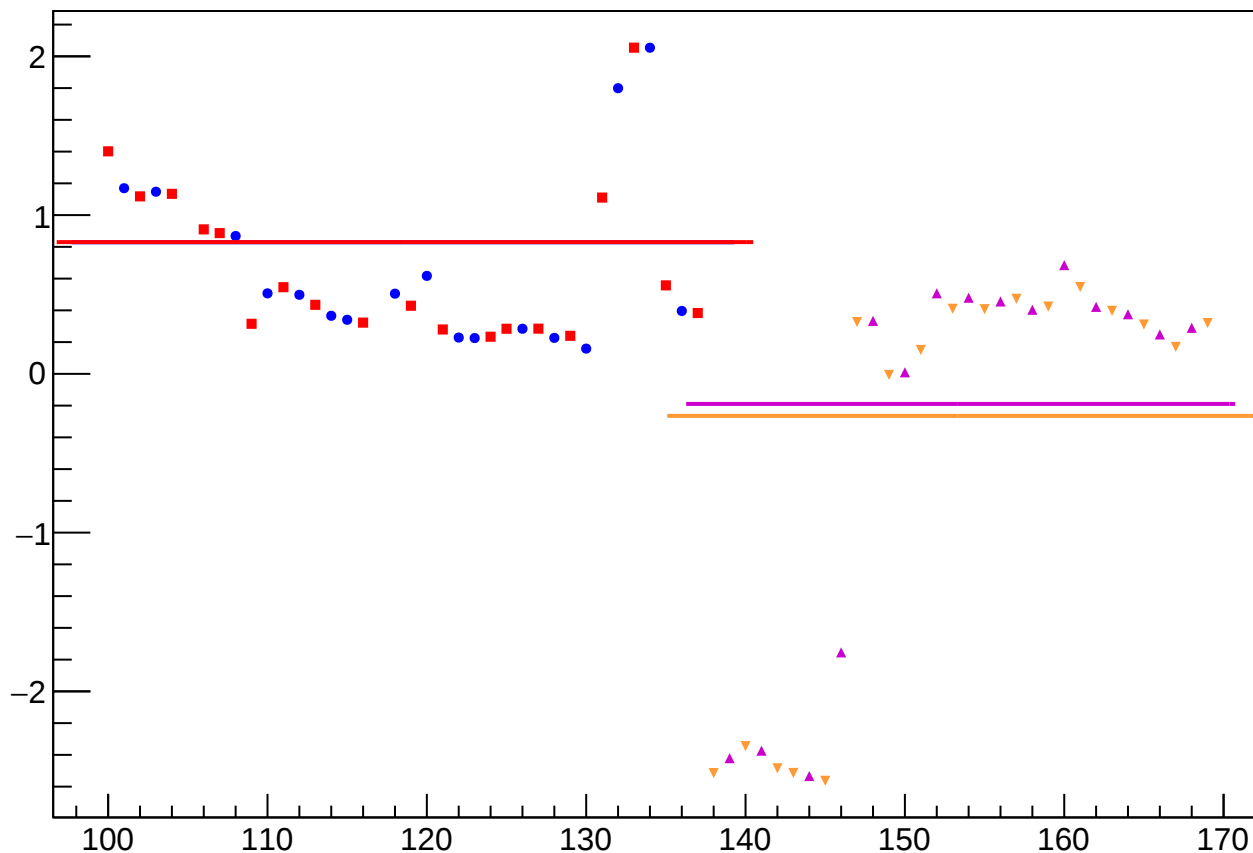
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2861188.7/31

Out: 0.004+/-0.000 χ^2/NDF :3059797.3/35

All: 0.004+/-0.000 χ^2/NDF : 5923642.4/67

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.265+/-0.000 χ^2/NDF : 458356630848.0/16

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: -0.229+/-0.000 χ^2/NDF : 850033562665.7/31

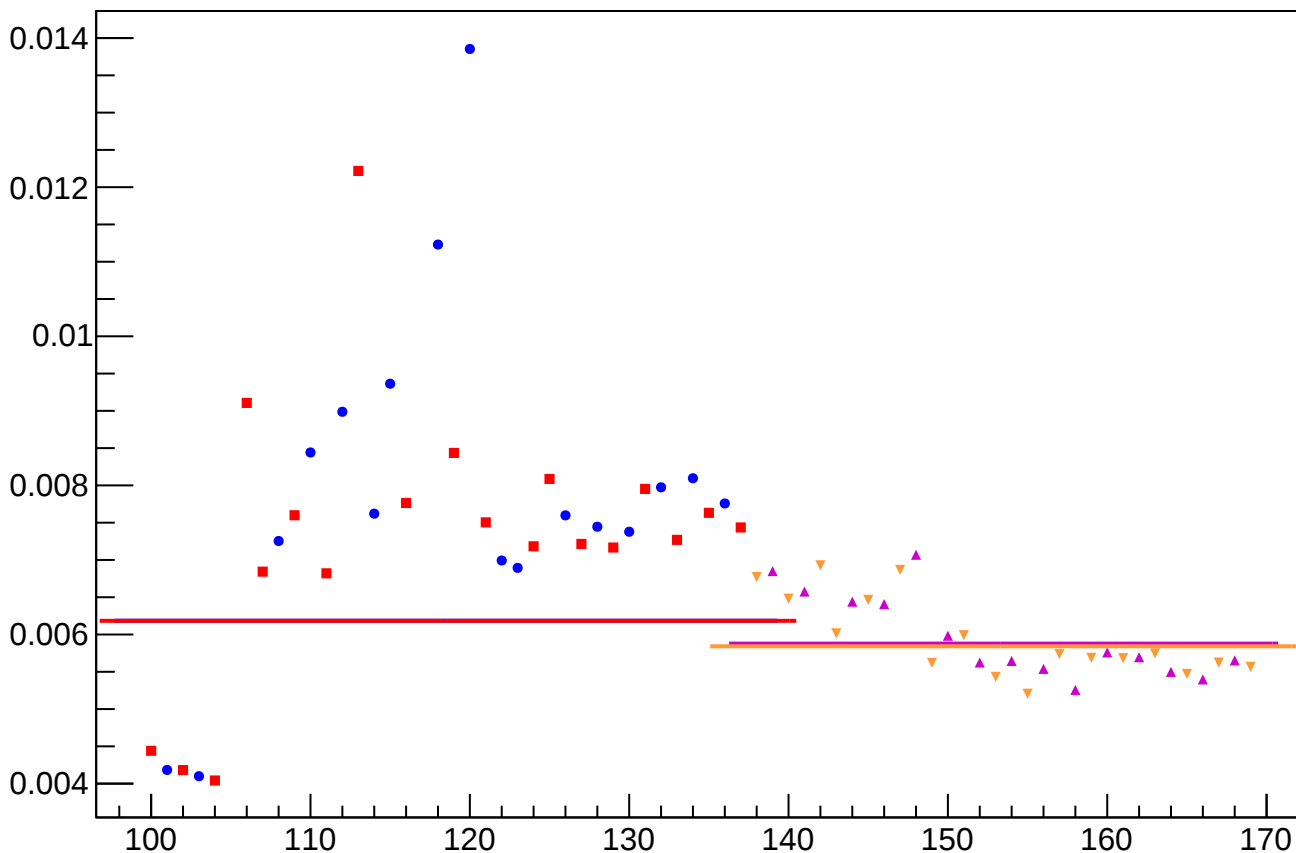
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.122+/-0.000 χ^2/NDF : 522457714641.4/31

Out: 0.071+/-0.000 χ^2/NDF : 617804354802.3/35

All: 0.096+/-0.000 χ^2/NDF : 1140878072819.

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 : 152585.7/16

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 : 313387.5/31

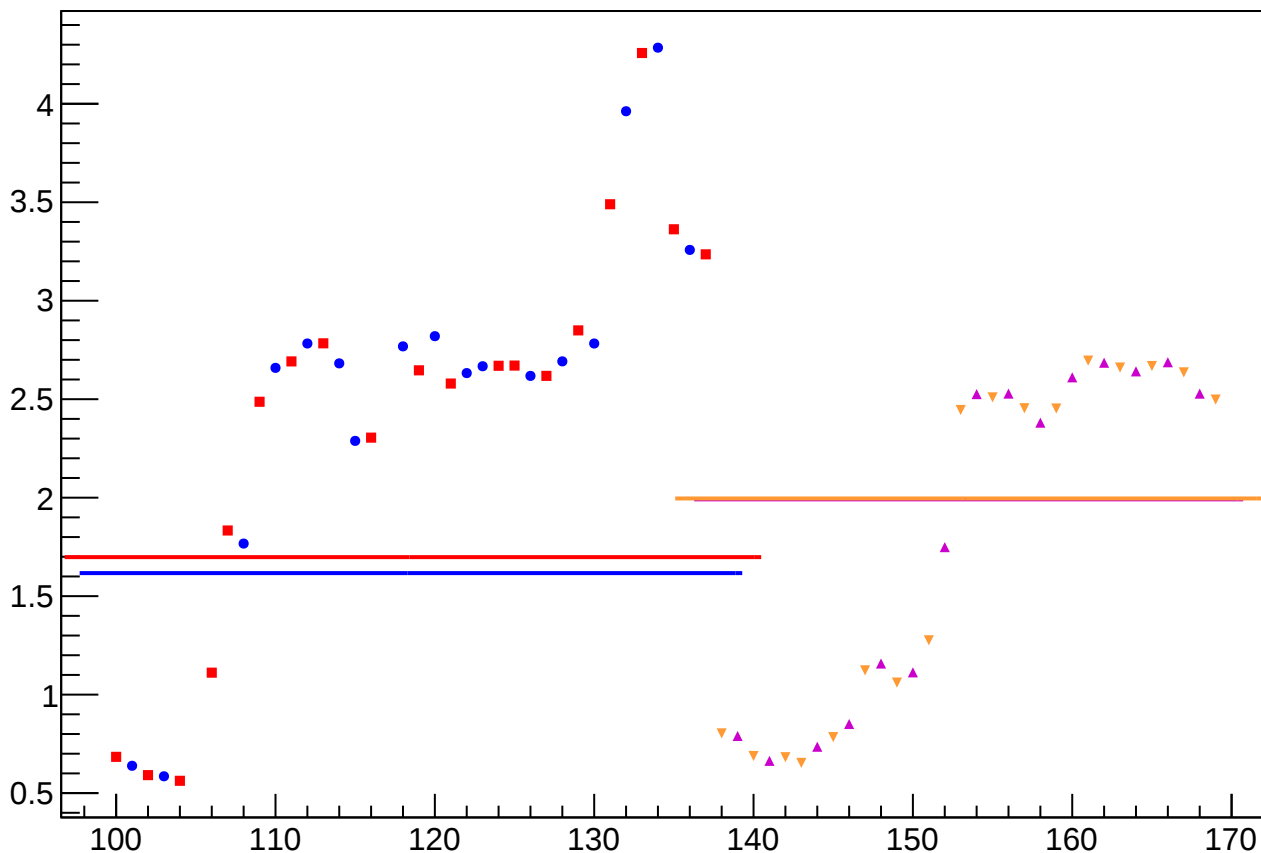
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1407446.2/31

Out: 0.006+/-0.000 χ^2/NDF : 1204011.0/35

All: 0.006+/-0.000 χ^2/NDF : 2611760.9/67

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.996 $\pm$ 0.000 χ^2/NDF : 252216718219.2/16

Right Out: 1.698 $\pm$ 0.000 χ^2/NDF : 227408345801.7/18

Left In: 1.991 $\pm$ 0.000 χ^2/NDF : 212132712832.5/14

Left: 1.994 $\pm$ 0.000 χ^2/NDF : 464353327105.3/31

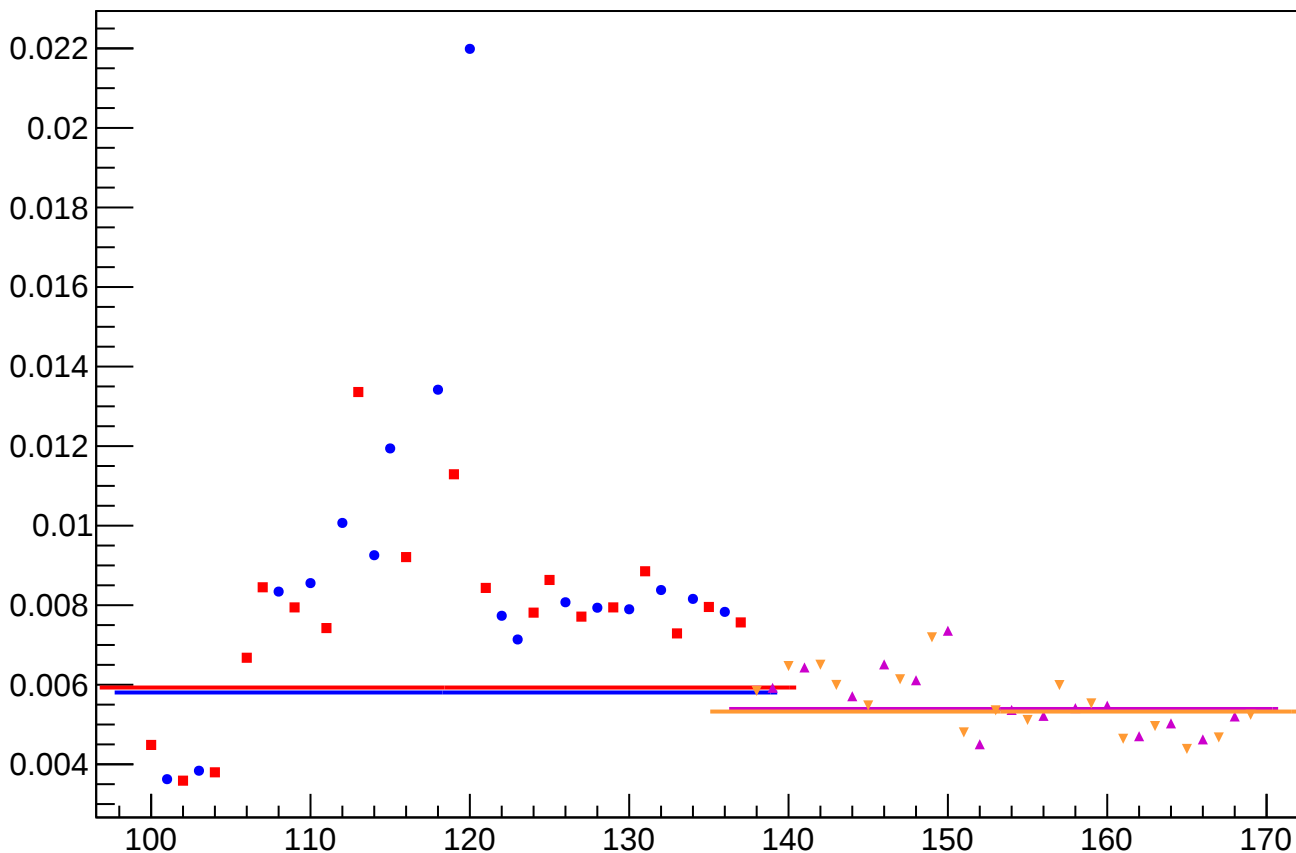
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 1.884 $\pm$ 0.000 χ^2/NDF : 429349284542.9/31

Out: 1.913 $\pm$ 0.000 χ^2/NDF : 489351924479.0/35

All: 1.899 $\pm$ 0.000 χ^2/NDF : 918910154834.1

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 : 361445.7/16

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 : 705409.4/31

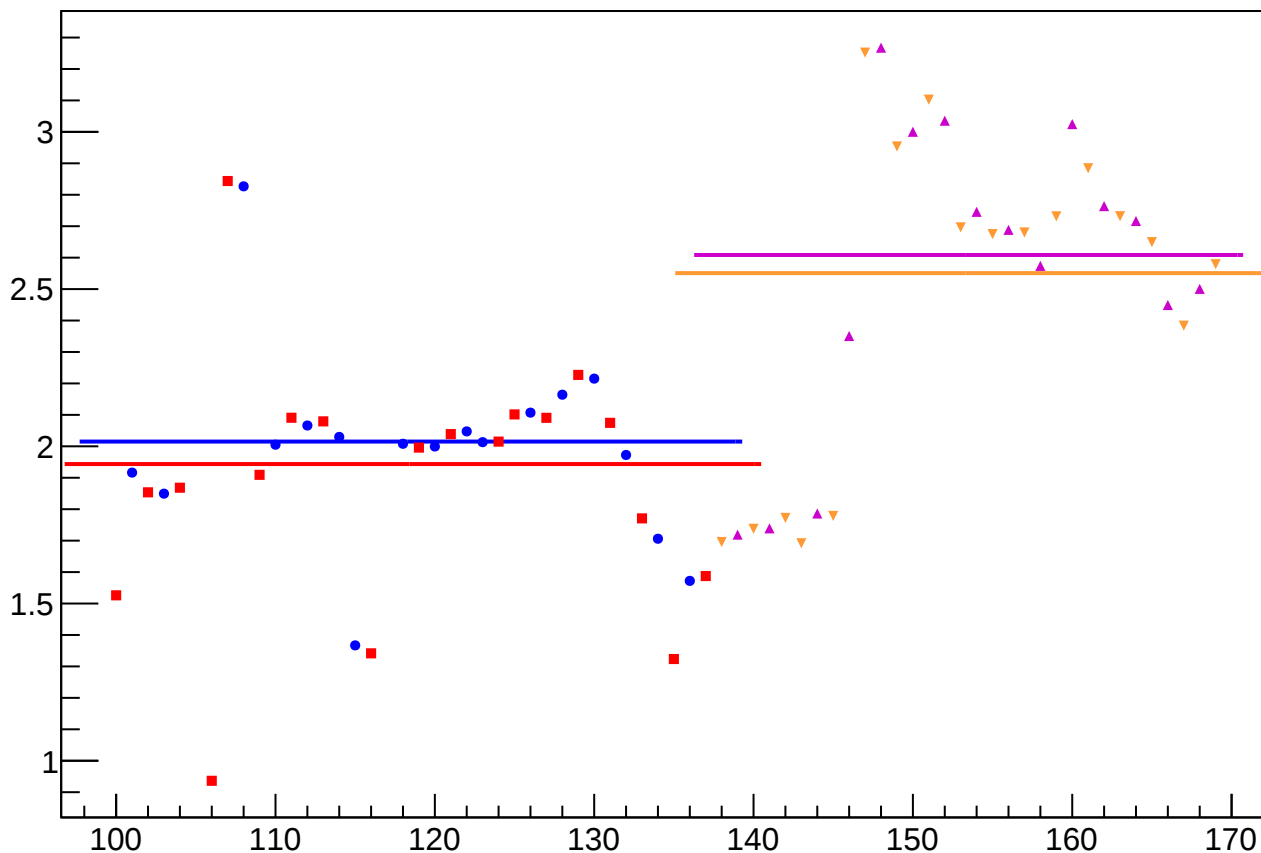
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2295540.4/31

Out: 0.005+/-0.000 χ^2/NDF : 2127010.0/35

All: 0.006+/-0.000 χ^2/NDF : 4422652.7/67

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.551+/-0.000 χ^2/NDF : 48552516489.9/16

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 : 90005788391.2/31

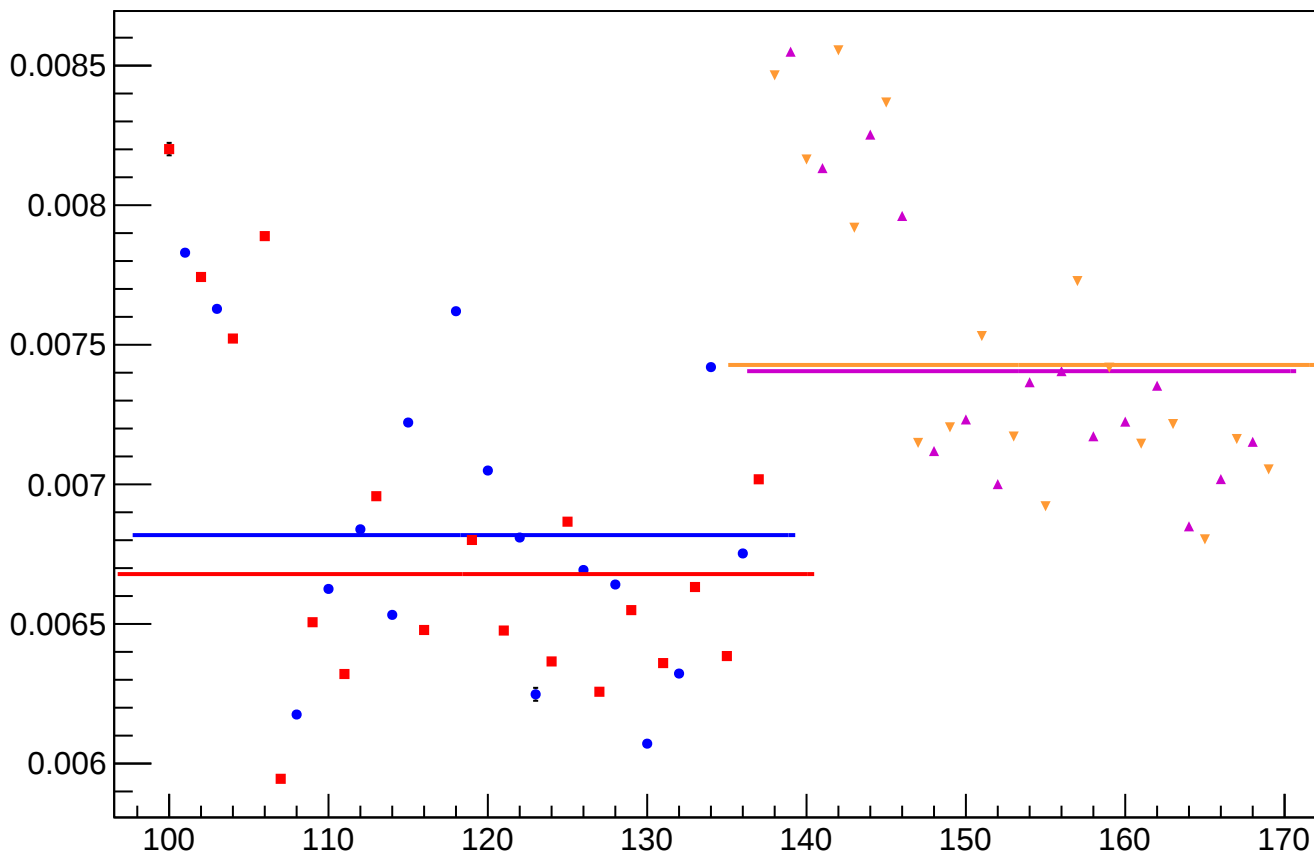
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.370+/-0.000 χ^2/NDF : 82122250658.5/31

Out: 2.300+/-0.000 χ^2/NDF : 102929167671.9/35

All: 2.334+/-0.000 χ^2/NDF : 185905387653.1

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 :105320.3/16

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 : 190811.7/31

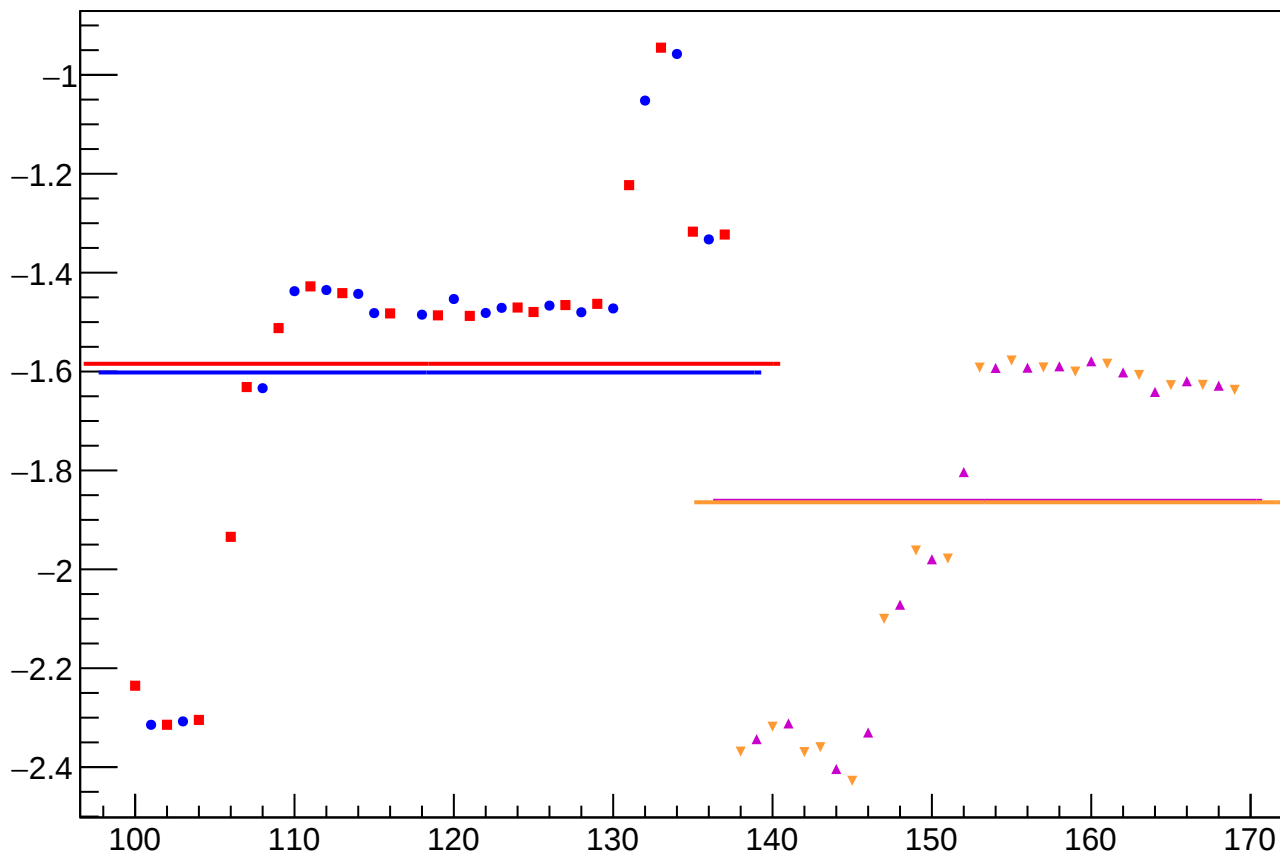
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :217587.4/31

Out: 0.007+/-0.000 χ^2/NDF :281332.2/35

All: 0.007+/-0.000 χ^2/NDF : 499824.3/67

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.864+/-0.000 χ^2/NDF : 161512197378.0/16

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.861+/-0.000 χ^2/NDF : 140891272511.7/14

Left: -1.863+/-0.000 χ^2/NDF : 302410069854.9/31

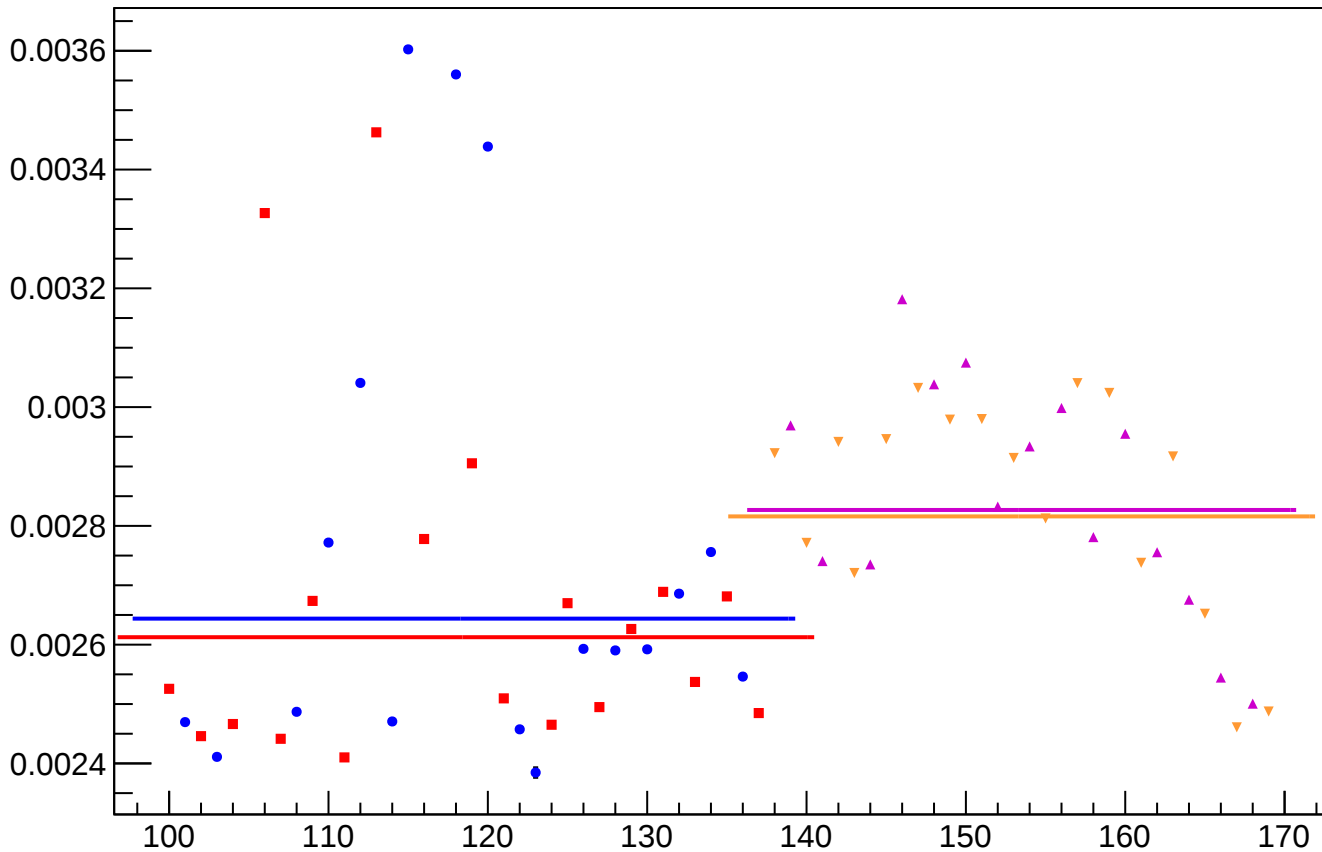
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.759+/-0.000 χ^2/NDF : 317811125263.8/31

Out: -1.754+/-0.000 χ^2/NDF : 351550543215.7/35

All: -1.756+/-0.000 χ^2/NDF : 669397847964.3

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 :107606.9/16

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 : 205964.8/31

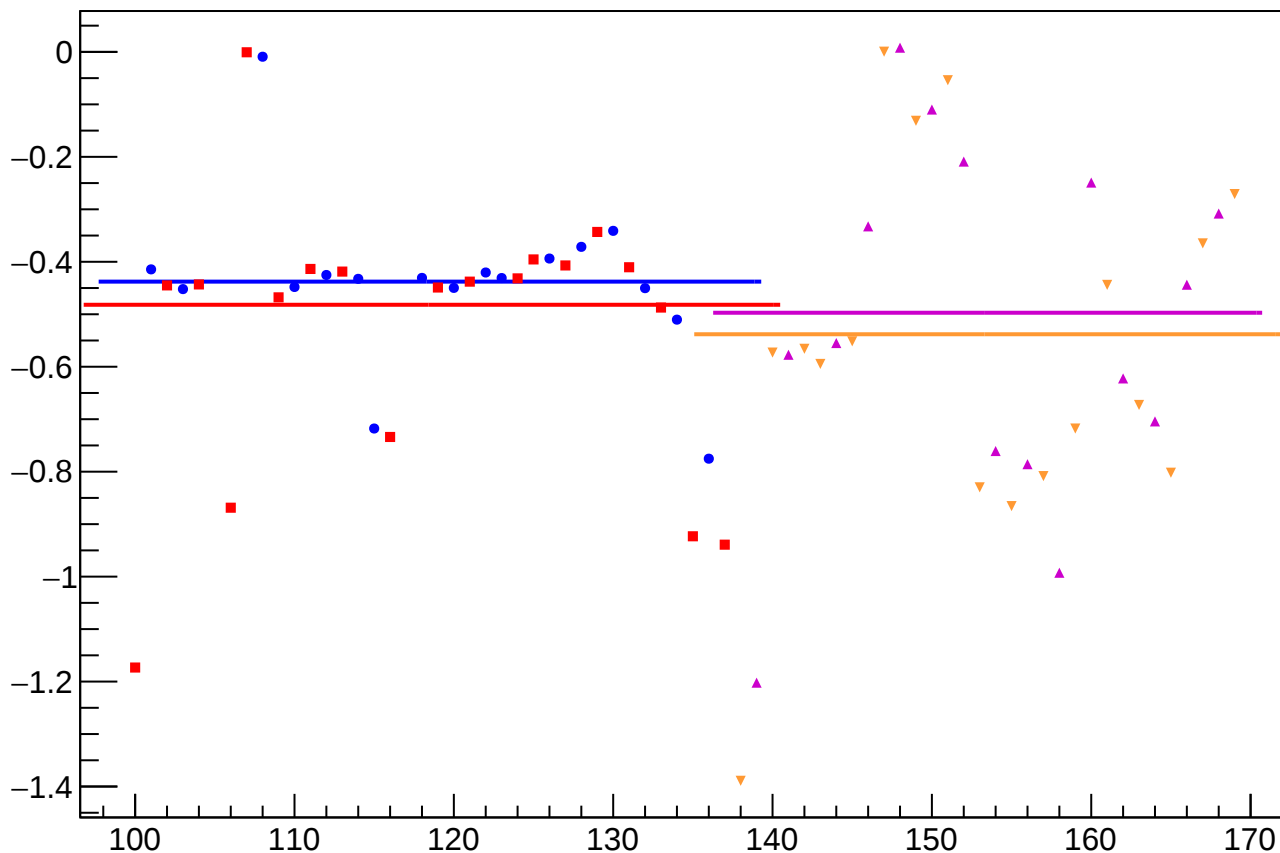
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :286089.0/31

Out: 0.003+/-0.000 χ^2/NDF :261908.0/35

All: 0.003+/-0.000 χ^2/NDF : 548873.0/67

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.538+/-0.000 χ^2/NDF : 8416728062.5/16

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: -0.518+/-0.000 χ^2/NDF : 15807523336.6/31

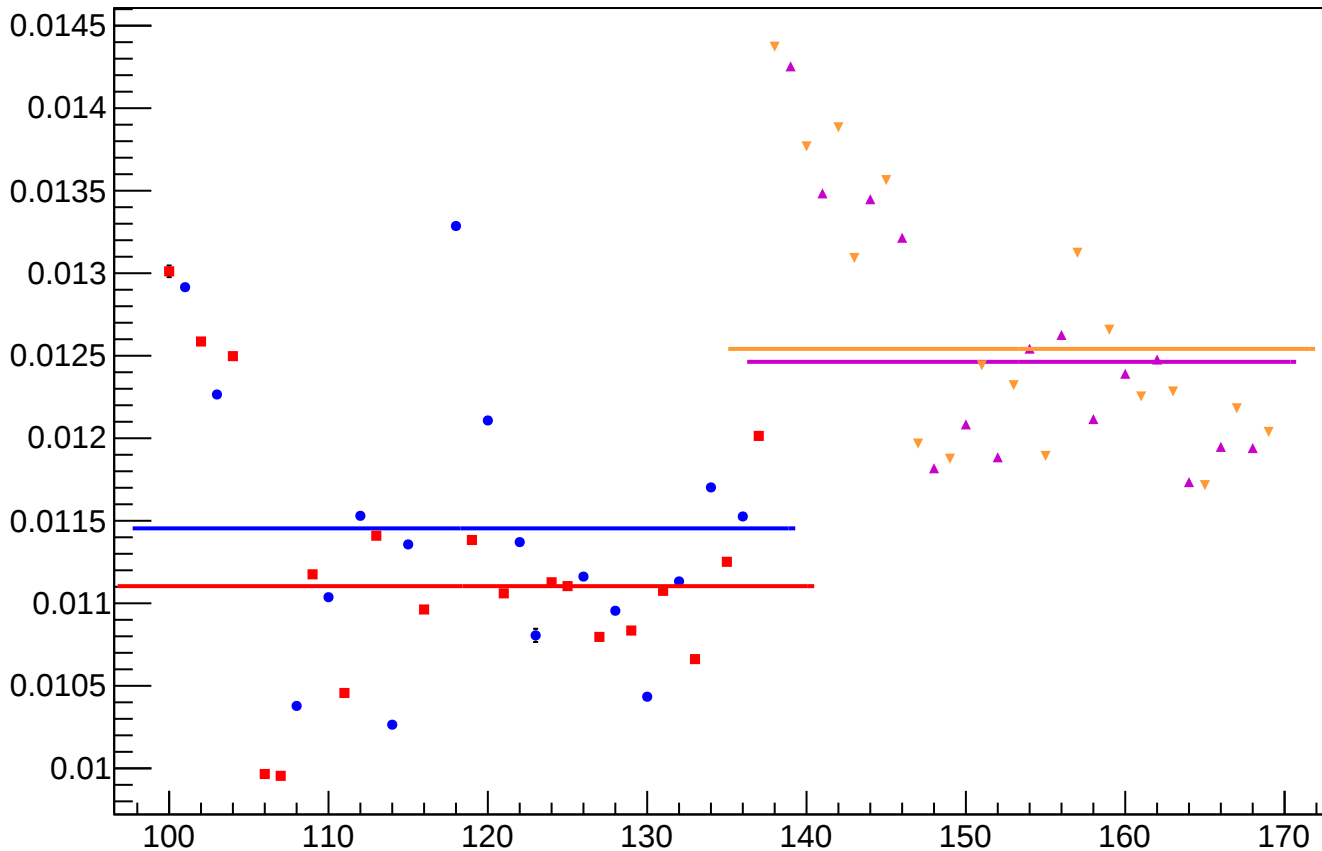
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.473+/-0.000 χ^2/NDF : 8893949833.5/31

Out: -0.514+/-0.000 χ^2/NDF : 11213607506.8/35

All: -0.495+/-0.000 χ^2/NDF : 20215694339.3/70

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 : 78772.1/16

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 : 143616.0/31

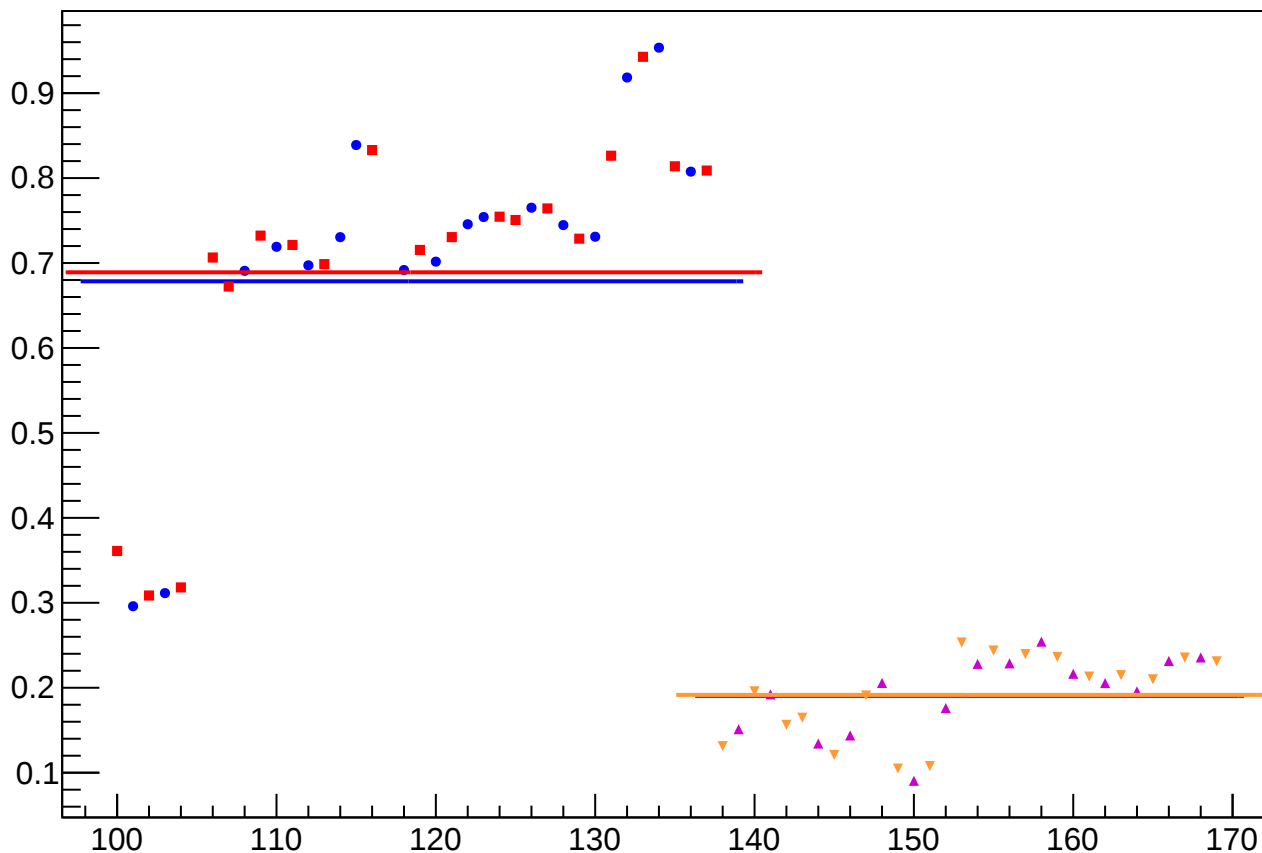
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 188534.6/31

Out: 0.012+/-0.000 χ^2/NDF : 268719.0/35

All: 0.012+/-0.000 χ^2/NDF : 459066.4/67

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.192+/-0.000 χ^2/NDF : 6244105495.5/16

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.190+/-0.000 χ^2/NDF : 4881323607.1/14

Left: 0.191+/-0.000 χ^2/NDF : 11127680438.9/31

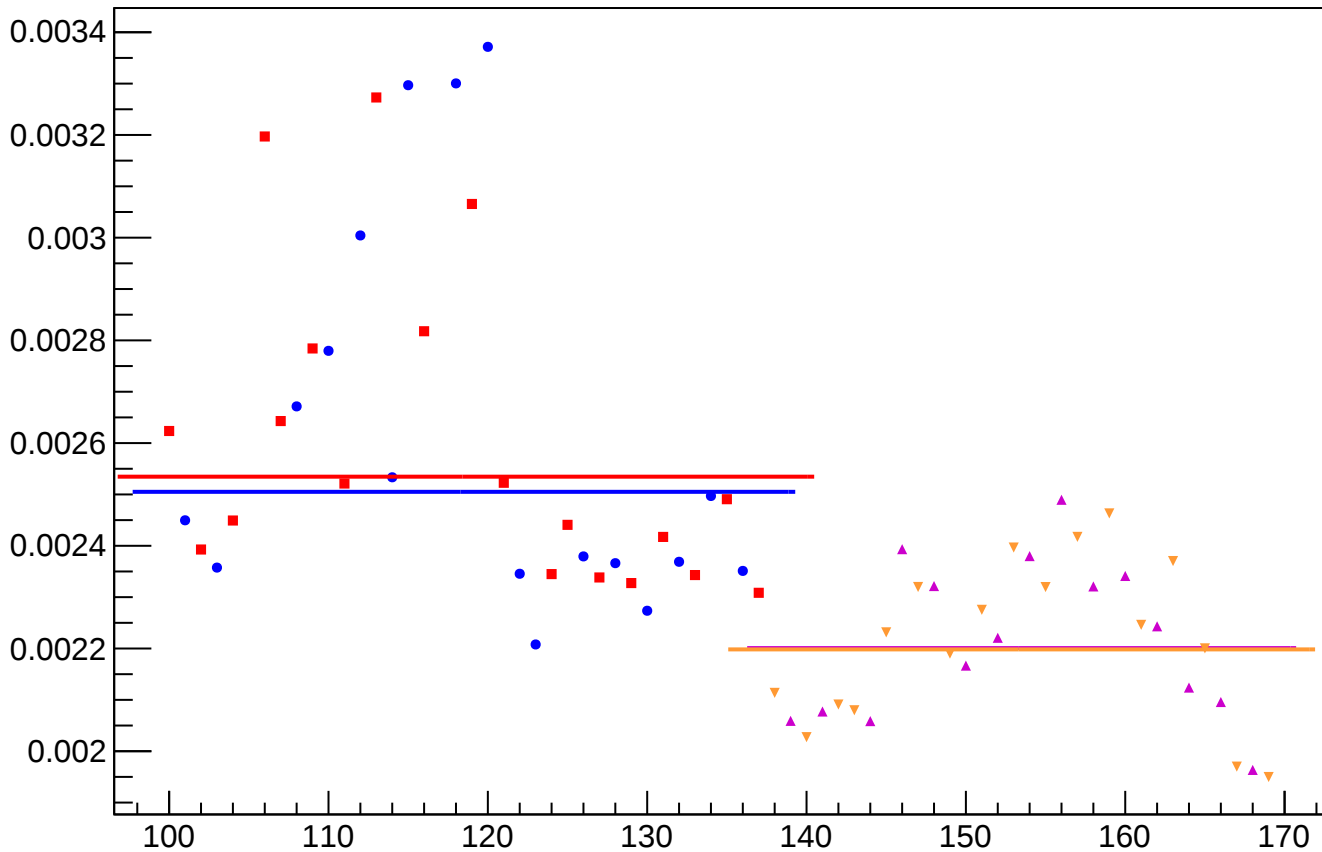
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.336+/-0.000 χ^2/NDF : 212990563696.9/31

Out: 0.335+/-0.000 χ^2/NDF : 225384366291.3/35

All: 0.336+/-0.000 χ^2/NDF : 438378393732.1

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 :127908.3/16

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 : 233110.5/31

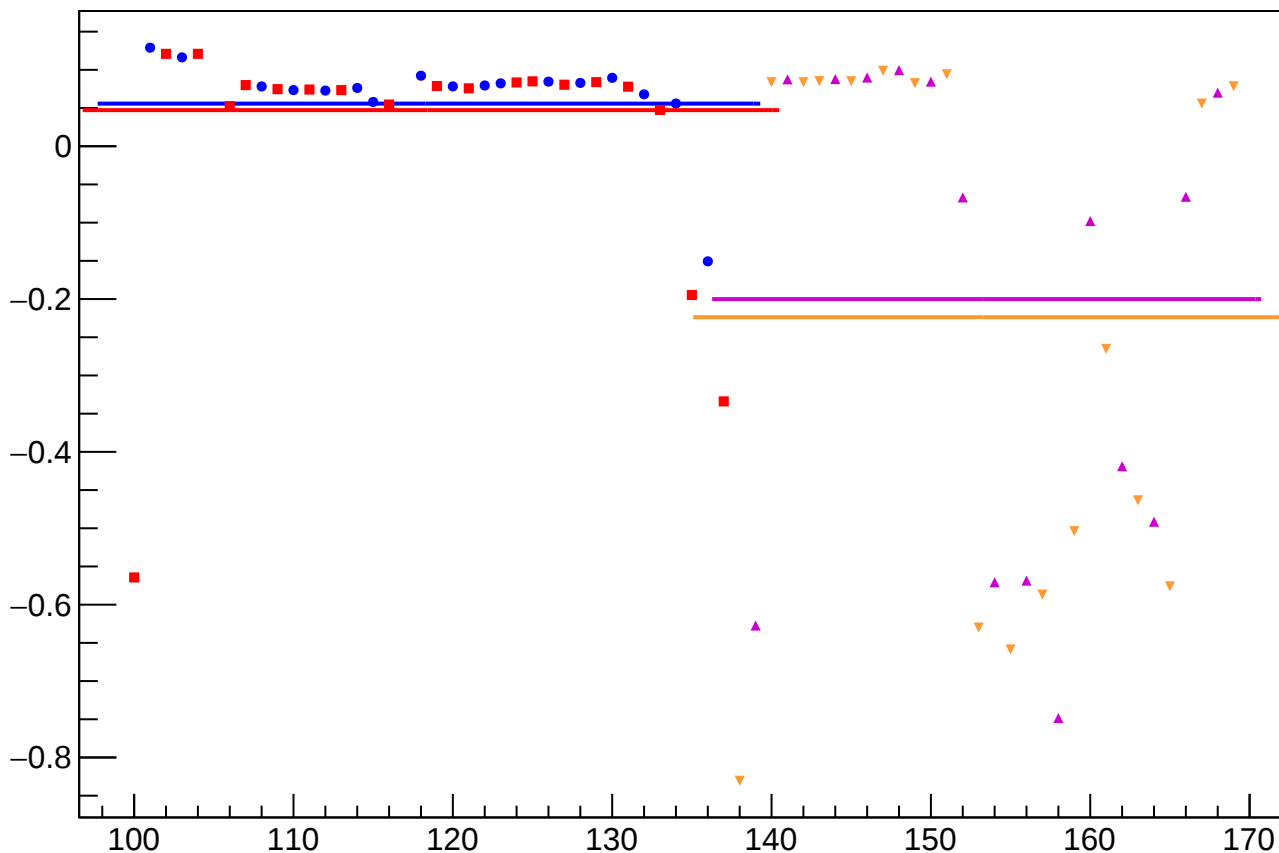
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :412458.1/31

Out: 0.002+/-0.000 χ^2/NDF :427552.8/35

All: 0.002+/-0.000 χ^2/NDF : 840048.9/67

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000

χ^2 /NDF: 423003688.1/16

Left: -0.212 $\pm$ 0.000

χ^2 /NDF: 18789371917.1/31

Left Out: -0.224 $\pm$ 0.000

χ^2 /NDF: 10430116879.3/16

Right: 0.051 $\pm$ 0.000

χ^2 /NDF: 1245197626.4/35

Right Out: 0.047 $\pm$ 0.000

χ^2 /NDF: 819588537.2/18

In: -0.089 $\pm$ 0.000

χ^2 /NDF: 11247552466.1/31

Out: -0.101 $\pm$ 0.000

χ^2 /NDF: 14357162239.5/35

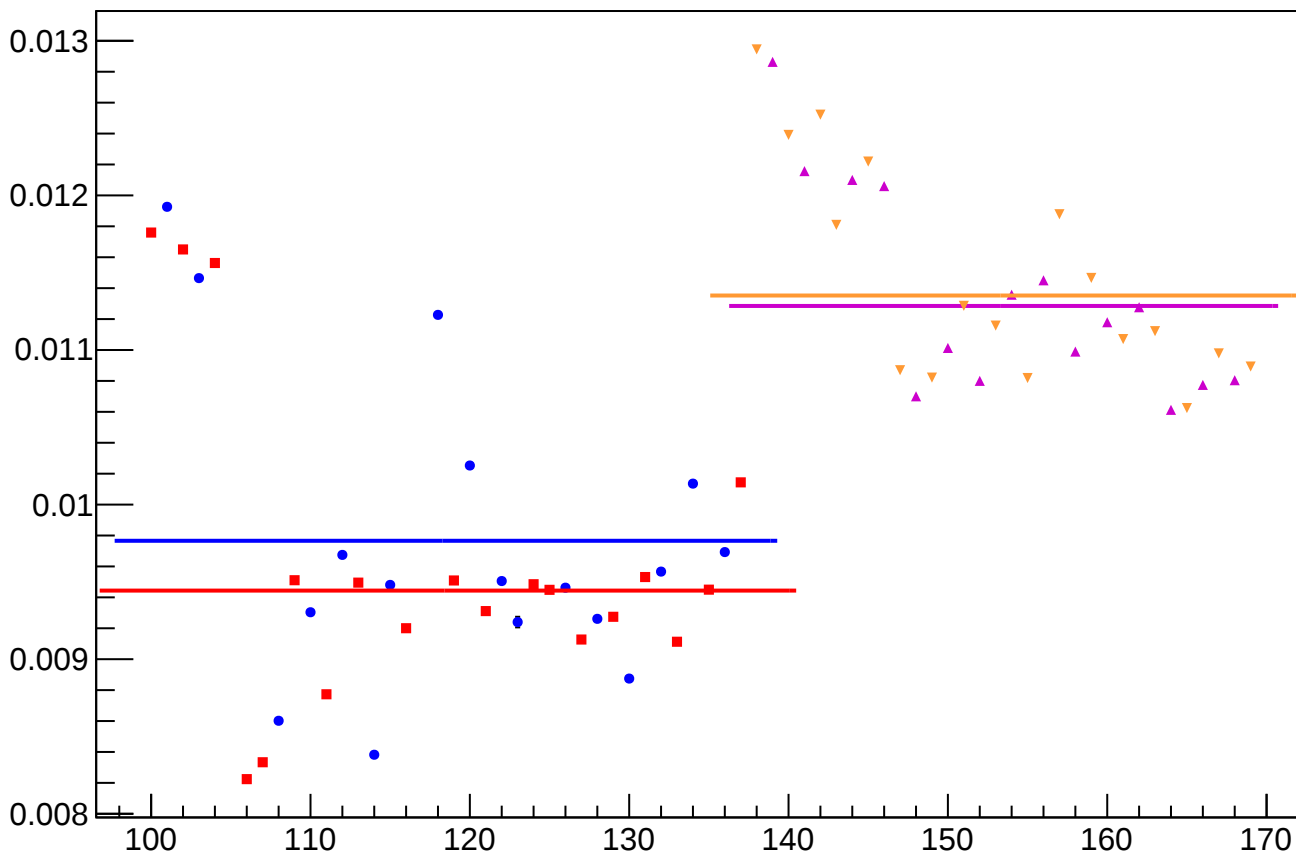
Left In: -0.200 $\pm$ 0.000

χ^2 /NDF: 8333955406.7/14

All: -0.095 $\pm$ 0.000

χ^2 /NDF: 25617174883.5/170

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 72059.3/16

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 62013.5/14

Left: 0.011+/-0.000 χ^2/NDF : 134484.0/31

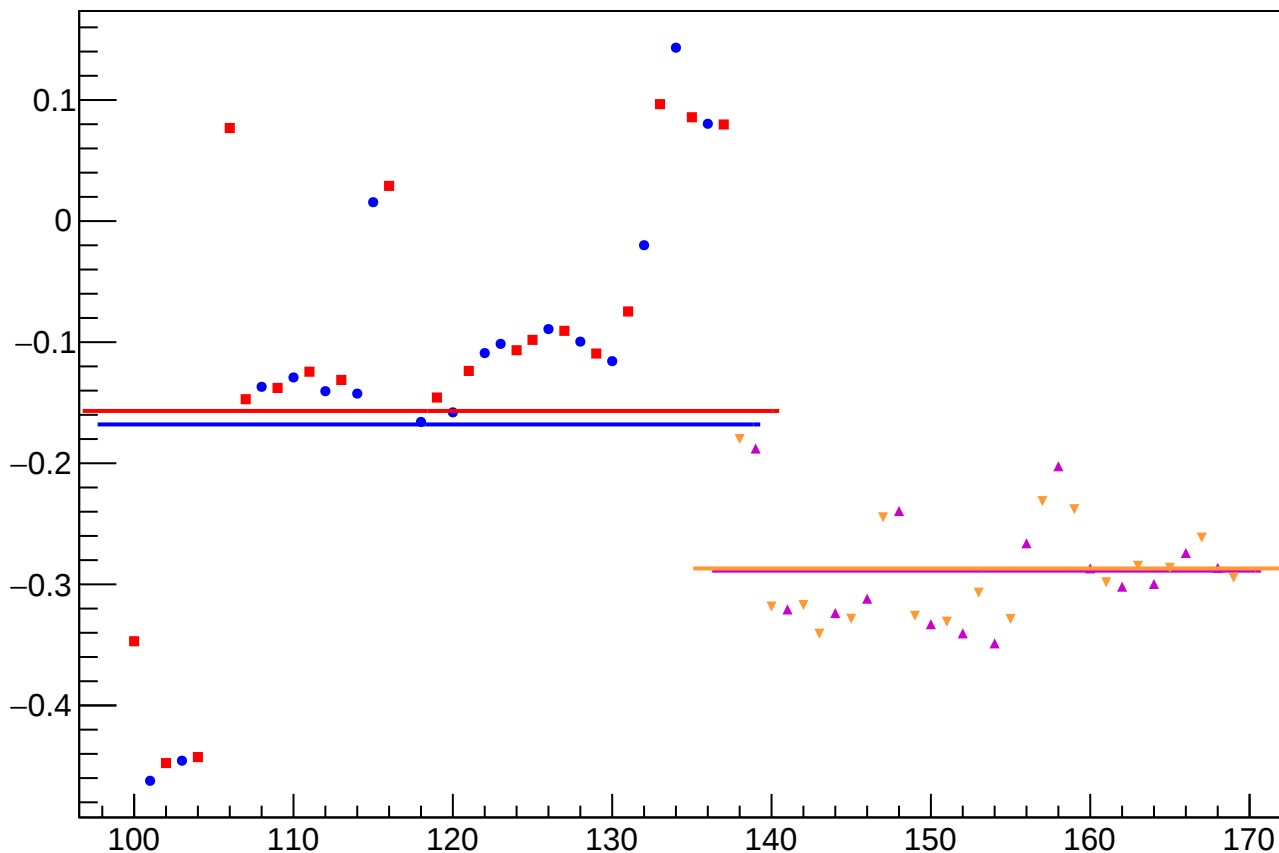
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 354288.1/31

Out: 0.010+/-0.000 χ^2/NDF : 491070.6/35

All: 0.011+/-0.000 χ^2/NDF : 848330.4/67

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.287+/-0.000 χ^2/NDF : 2775167252.2/16

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: -0.288+/-0.000 χ^2/NDF : 5858626851.9/31

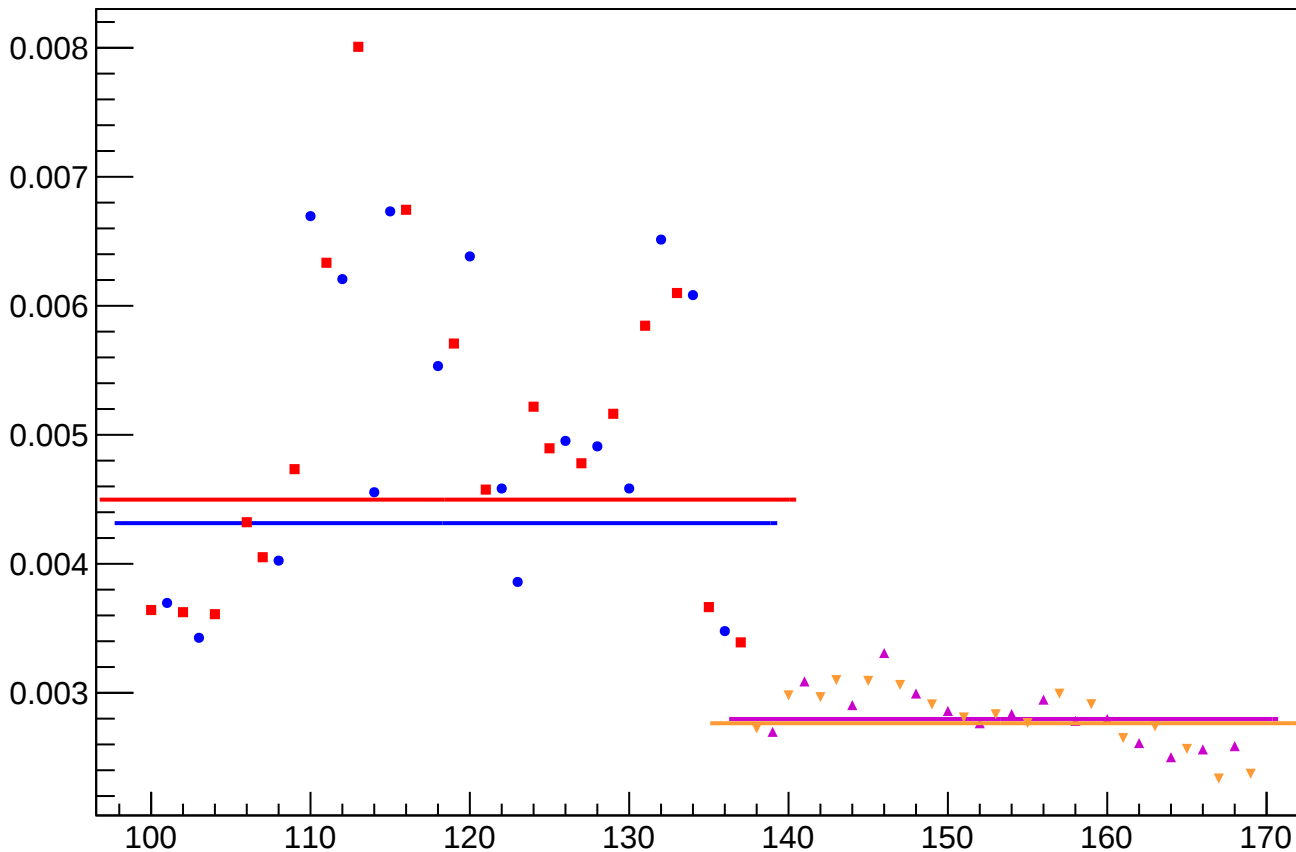
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.267+/-0.000 χ^2/NDF : 19141344072.1/31

Out: -0.266+/-0.000 χ^2/NDF : 18154956486.5/35

All: -0.266+/-0.000 χ^2/NDF : 37297851465.1/70

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF : 178272.9/16

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 649708.4/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF : 106957.4/14

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 286876.7/31

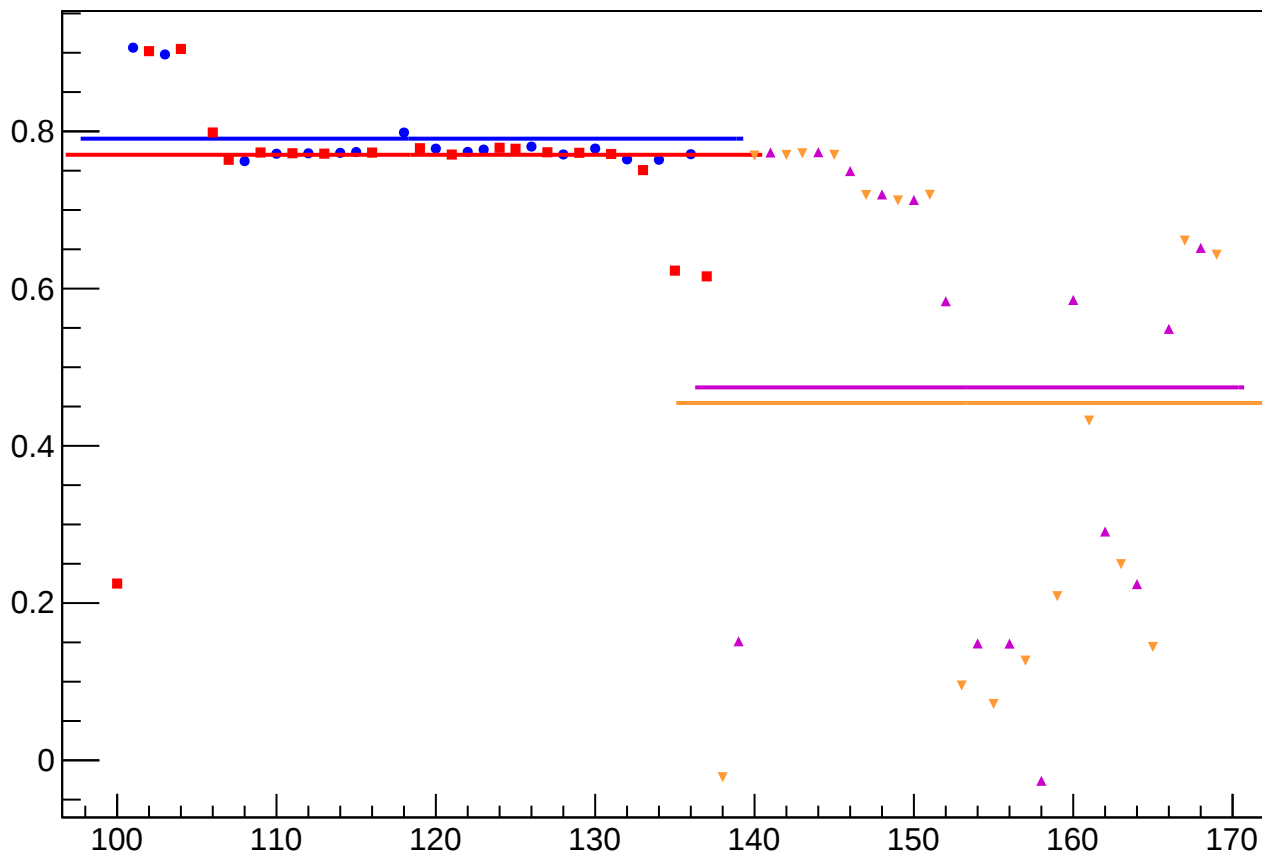
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1279743.5/35

In: 0.003 $\pm$ 0.000 χ^2/NDF : 1904854.7/31

Out: 0.003 $\pm$ 0.000 χ^2/NDF : 2373875.1/35

All: 0.003 $\pm$ 0.000 χ^2/NDF : 4279727.2/67

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.455+/-0.000 χ^2/NDF : 8242788706.3/16

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.474+/-0.000 χ^2/NDF : 6788070609.3/14

Left: 0.464+/-0.000 χ^2/NDF : 15049494579.4/31

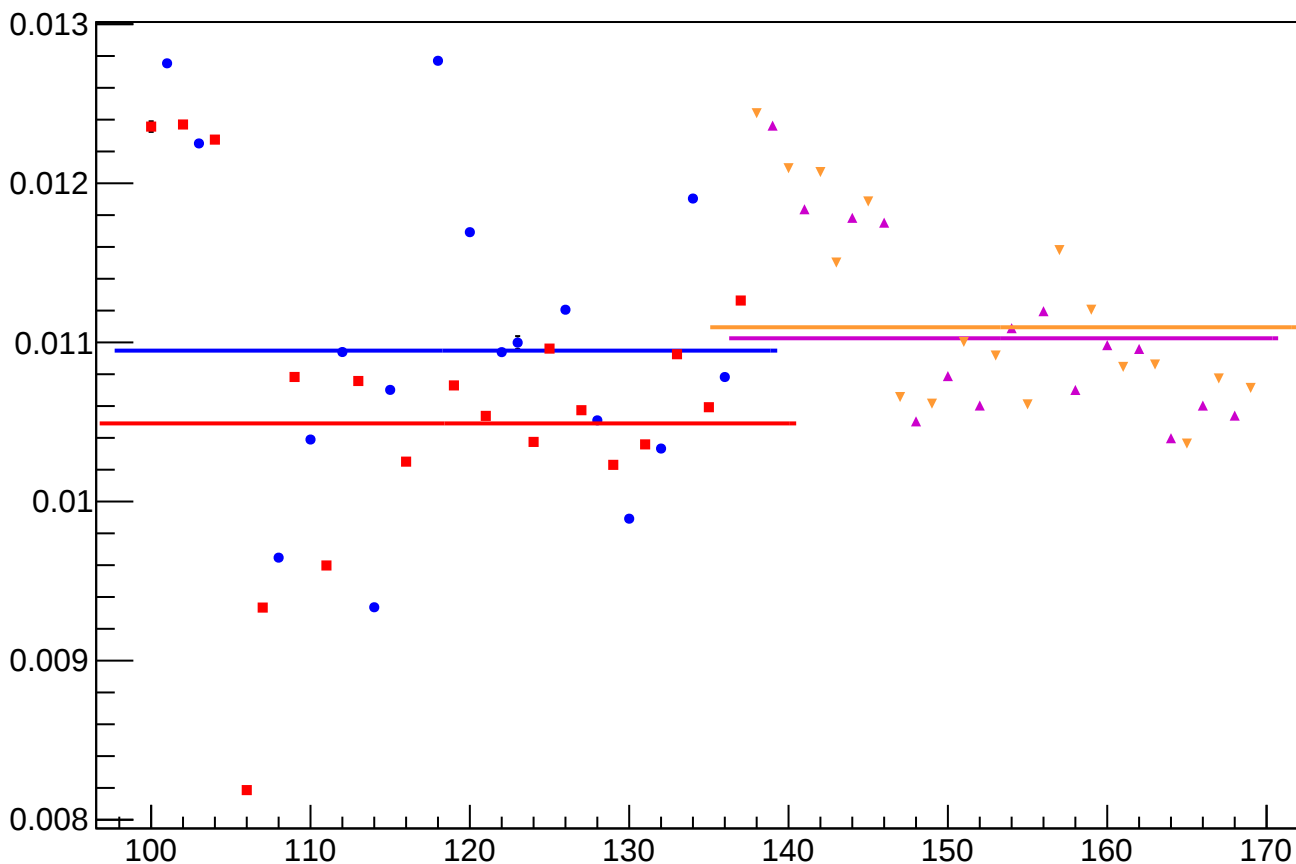
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.591+/-0.000 χ^2/NDF : 10290680002.2/31

Out: 0.577+/-0.000 χ^2/NDF : 12433202991.9/35

All: 0.584+/-0.000 χ^2/NDF : 22738067765.9/6

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 : 61854.7/16

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 : 116166.0/31

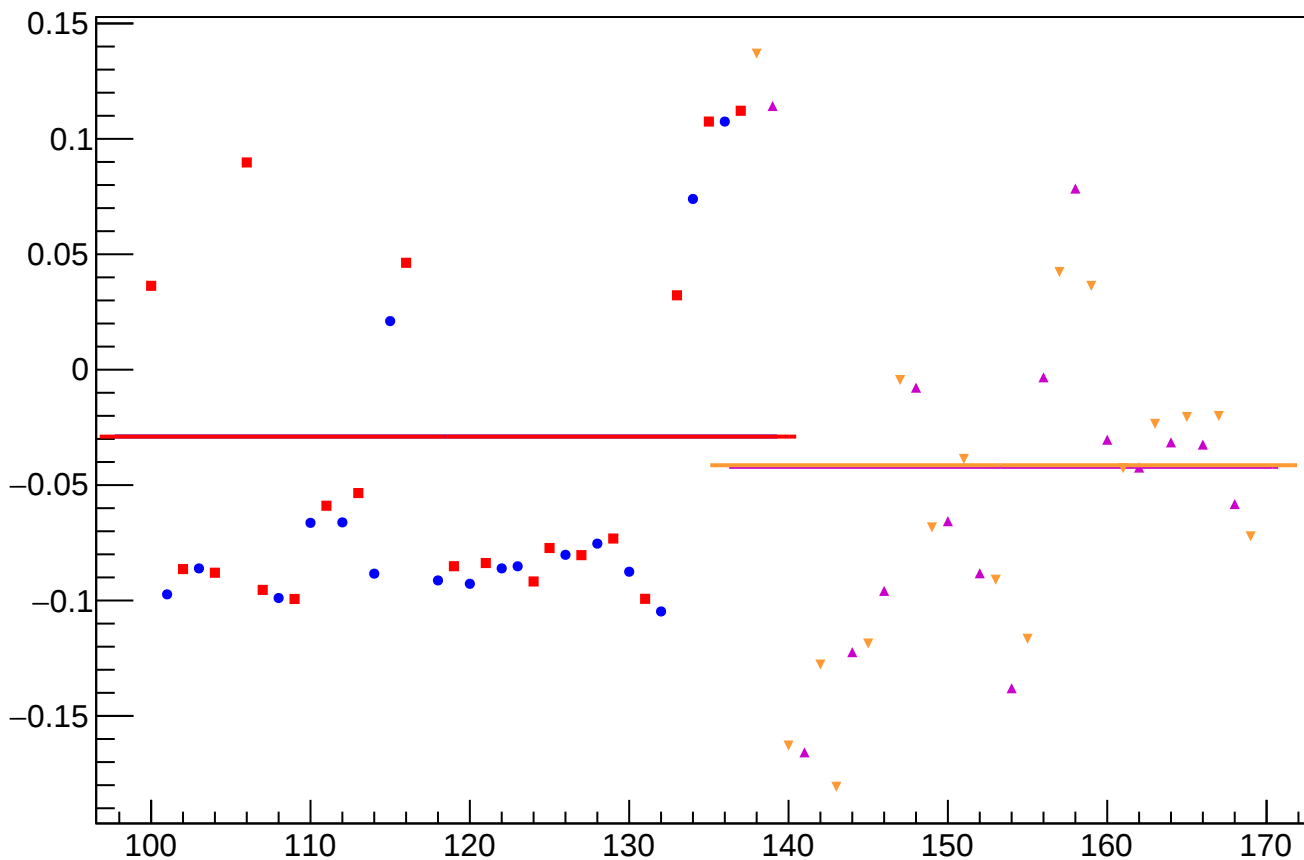
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 152814.9/31

Out: 0.011+/-0.000 χ^2/NDF : 209242.9/35

All: 0.011+/-0.000 χ^2/NDF : 364945.0/67

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.042+/-0.000

χ^2/NDF : 12720431603.6/31

Left Out: -0.041+/-0.000

χ^2/NDF : 6855740422.2/16

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: -0.039+/-0.000

χ^2/NDF : 9005935911.1/35

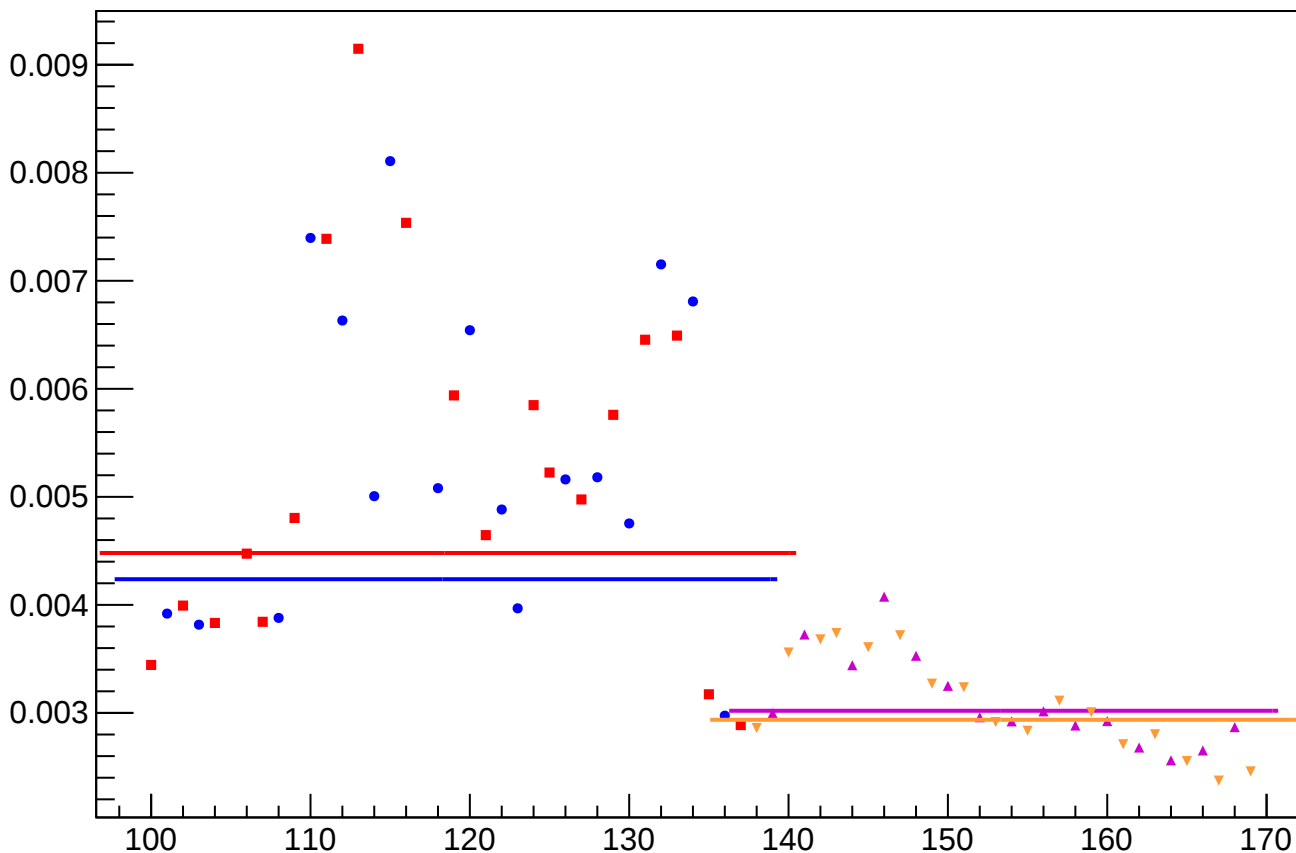
Left In: -0.042+/-0.000

χ^2/NDF : 5864384544.6/14

All: -0.039+/-0.000

χ^2/NDF : 17358219676.5/70

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 459681.4/16

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 298824.4/14

Left: 0.003+/-0.000 χ^2/NDF : 767293.8/31

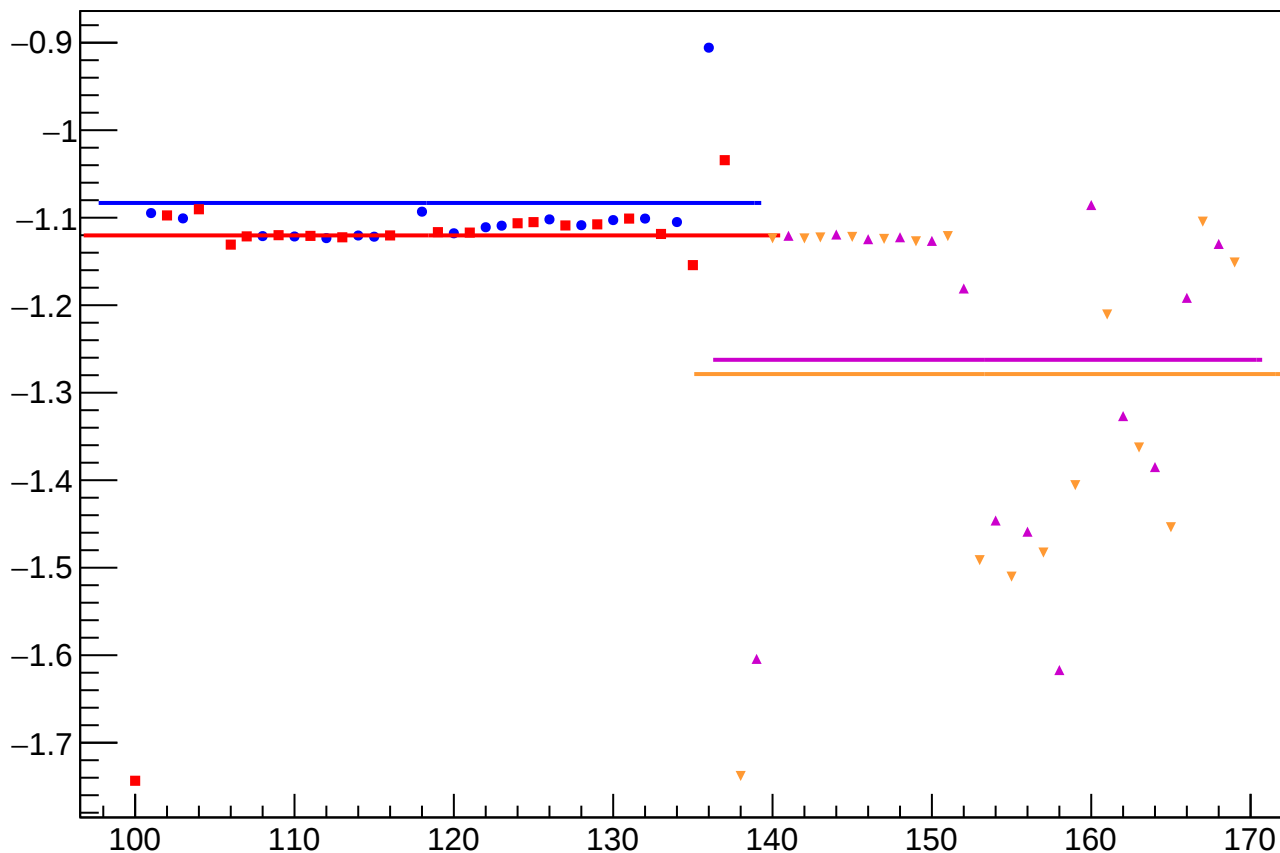
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1898756.0/31

Out: 0.003+/-0.000 χ^2/NDF : 2586002.6/35

All: 0.003+/-0.000 χ^2/NDF : 4490314.1/67

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.279+/-0.000 χ^2/NDF : 4186279776.5/16

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: -1.271+/-0.000 χ^2/NDF : 7848632189.8/31

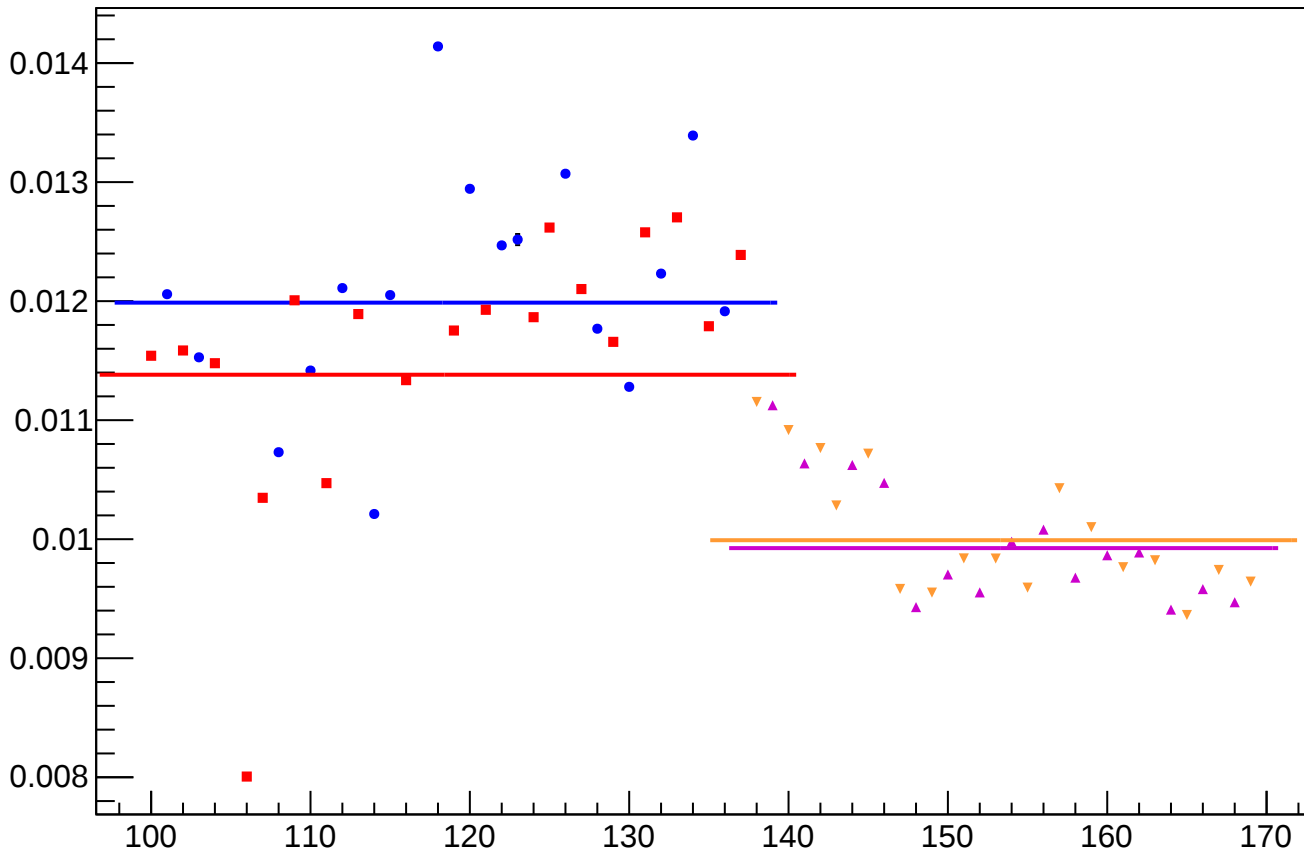
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.212+/-0.000 χ^2/NDF : 4883280063.3/31

Out: -1.231+/-0.000 χ^2/NDF : 5332497222.9/35

All: -1.222+/-0.000 χ^2/NDF : 10245493922.9/70

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: 59188.4/16

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: 111387.2/31

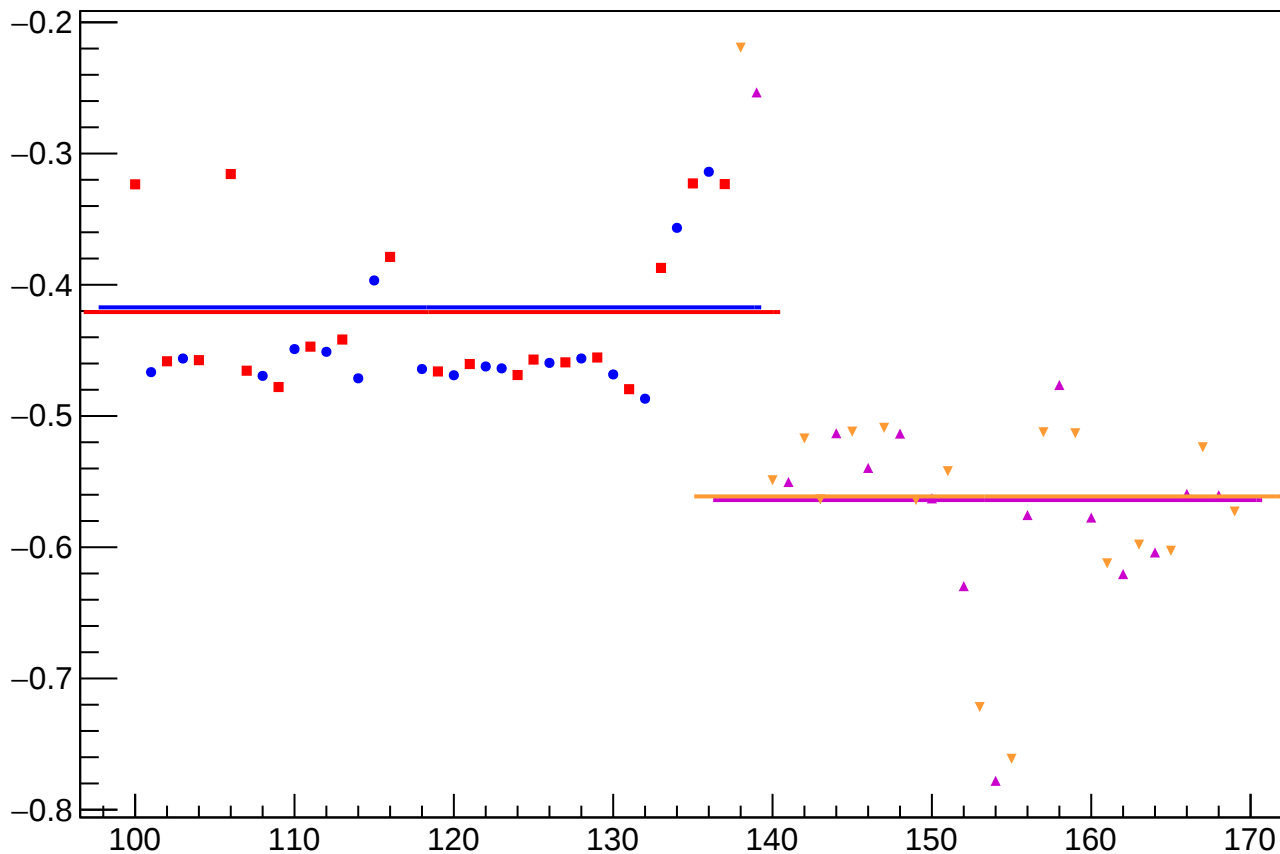
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 385683.2/31

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 356230.3/35

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 743398.6/67

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.561+/-0.000 χ^2/NDF : 13250144968.7/16

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: -0.563+/-0.000 χ^2/NDF : 23662280788.7/31

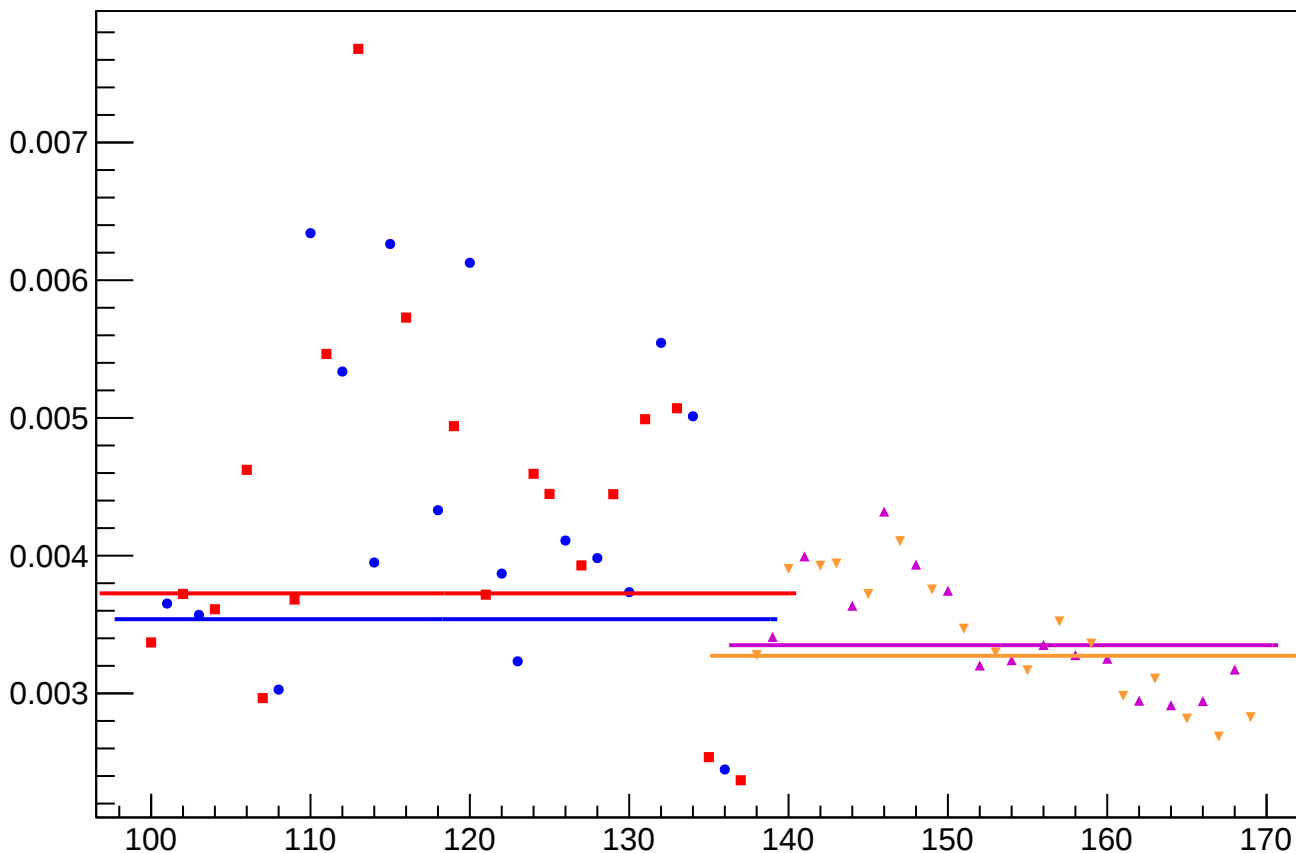
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.518+/-0.000 χ^2/NDF : 18894718157.9/31

Out: -0.522+/-0.000 χ^2/NDF : 20895404075.3/35

All: -0.520+/-0.000 χ^2/NDF : 39800517473.1/70

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 : 369806.3/16

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 : 627547.7/31

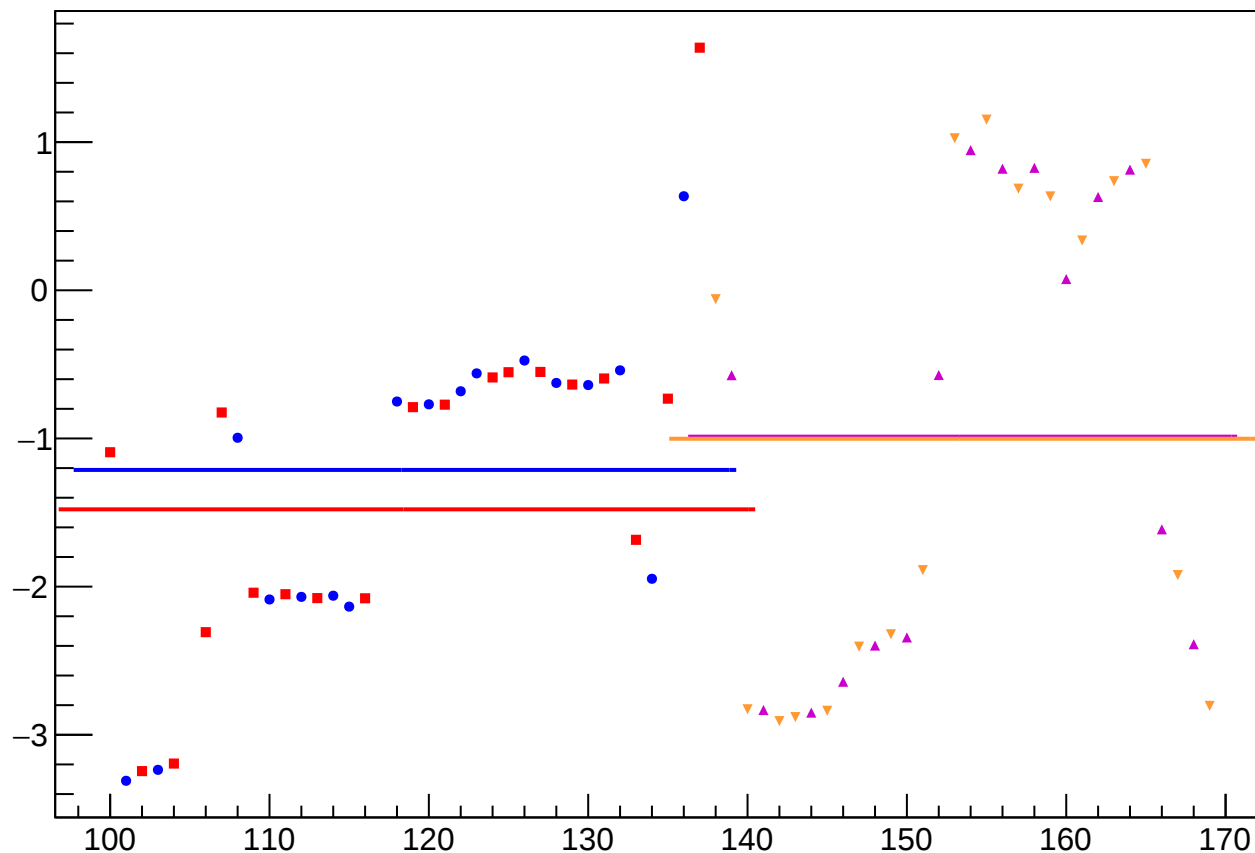
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1109159.1/31

Out: 0.003+/-0.000 χ^2/NDF : 1393200.4/35

All: 0.003+/-0.000 χ^2/NDF : 2502484.3/67

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -1.002 $\pm$ 0.000 χ^2 /NDF: 5801021096.9/16

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -0.988 $\pm$ 0.000 χ^2 /NDF: 4561145602.8/14

Left: -0.995 $\pm$ 0.000 χ^2 /NDF: 10362372240.2/31

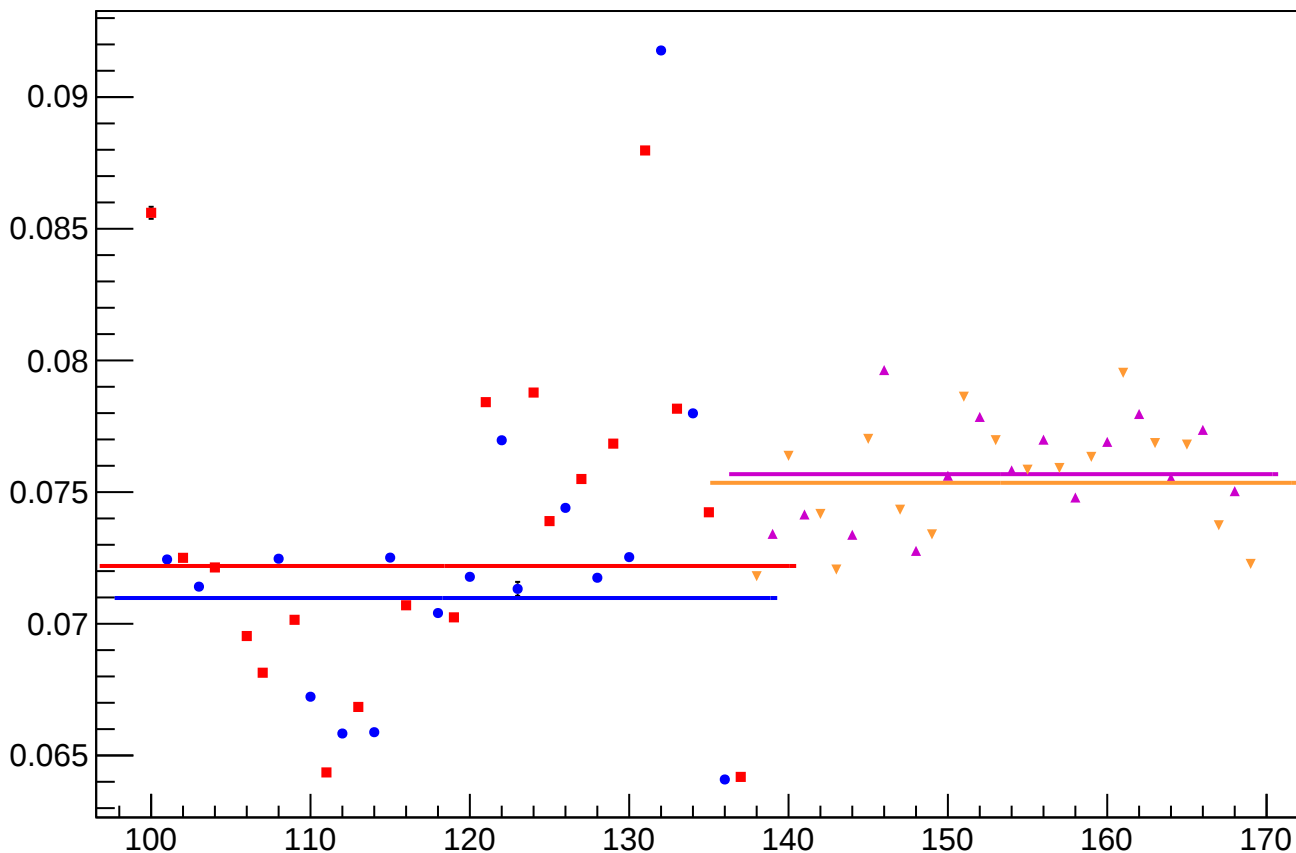
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.077 $\pm$ 0.000 χ^2 /NDF: 6593799834.7/31

Out: -1.182 $\pm$ 0.000 χ^2 /NDF: 7567781220.1/35

All: -1.131 $\pm$ 0.000 χ^2 /NDF: 14180580171.8/70

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 21600.9/16

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 : 35906.5/31

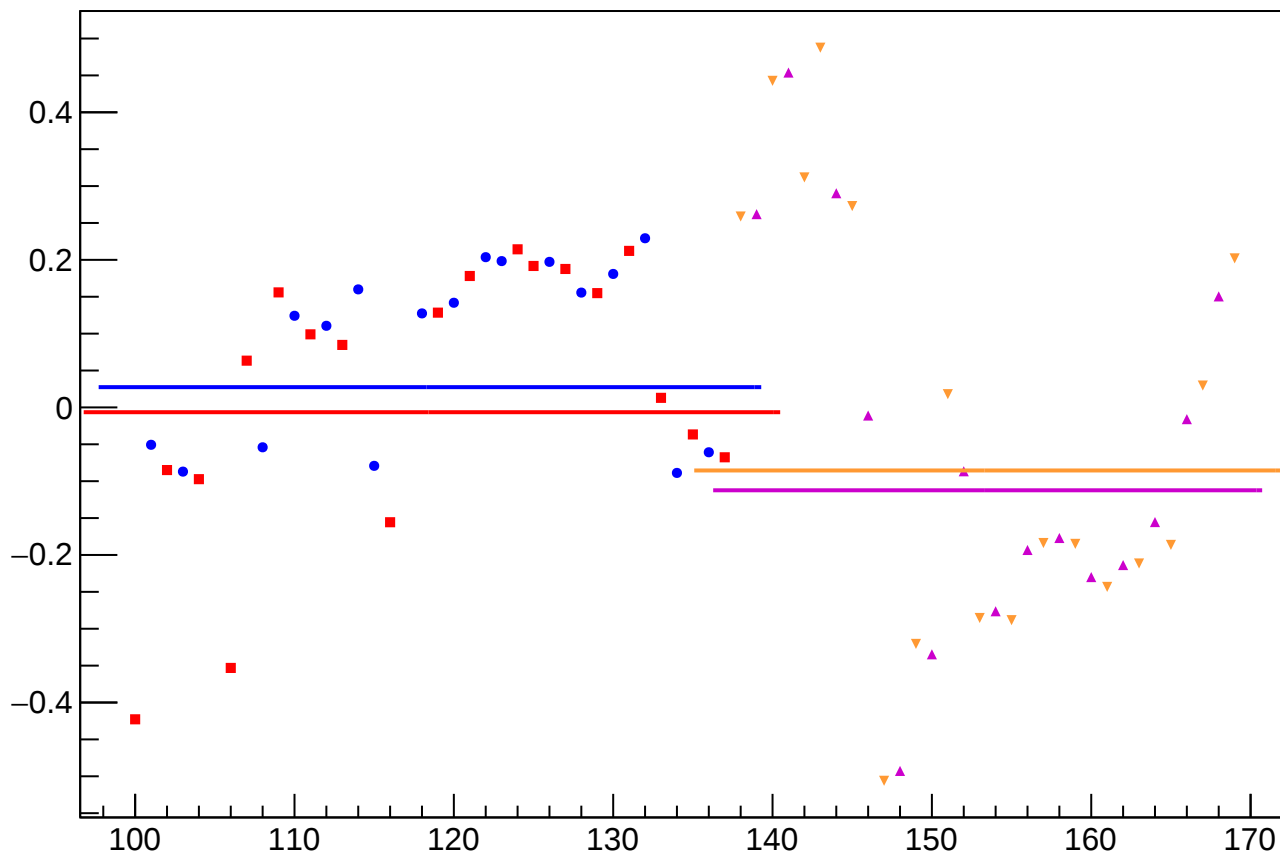
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 126580.0/31

Out: 0.074+/-0.000 χ^2/NDF : 111384.3/35

All: 0.074+/-0.000 χ^2/NDF : 238347.2/67

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ²/NDF: 562337631.4/16

Left: -0.098+/-0.000

χ²/NDF: 28026771807.0/31

Left Out: -0.085+/-0.000

χ²/NDF: 16424090673.9/16

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: -0.075+/-0.000

χ²/NDF: 17862176449.6/35

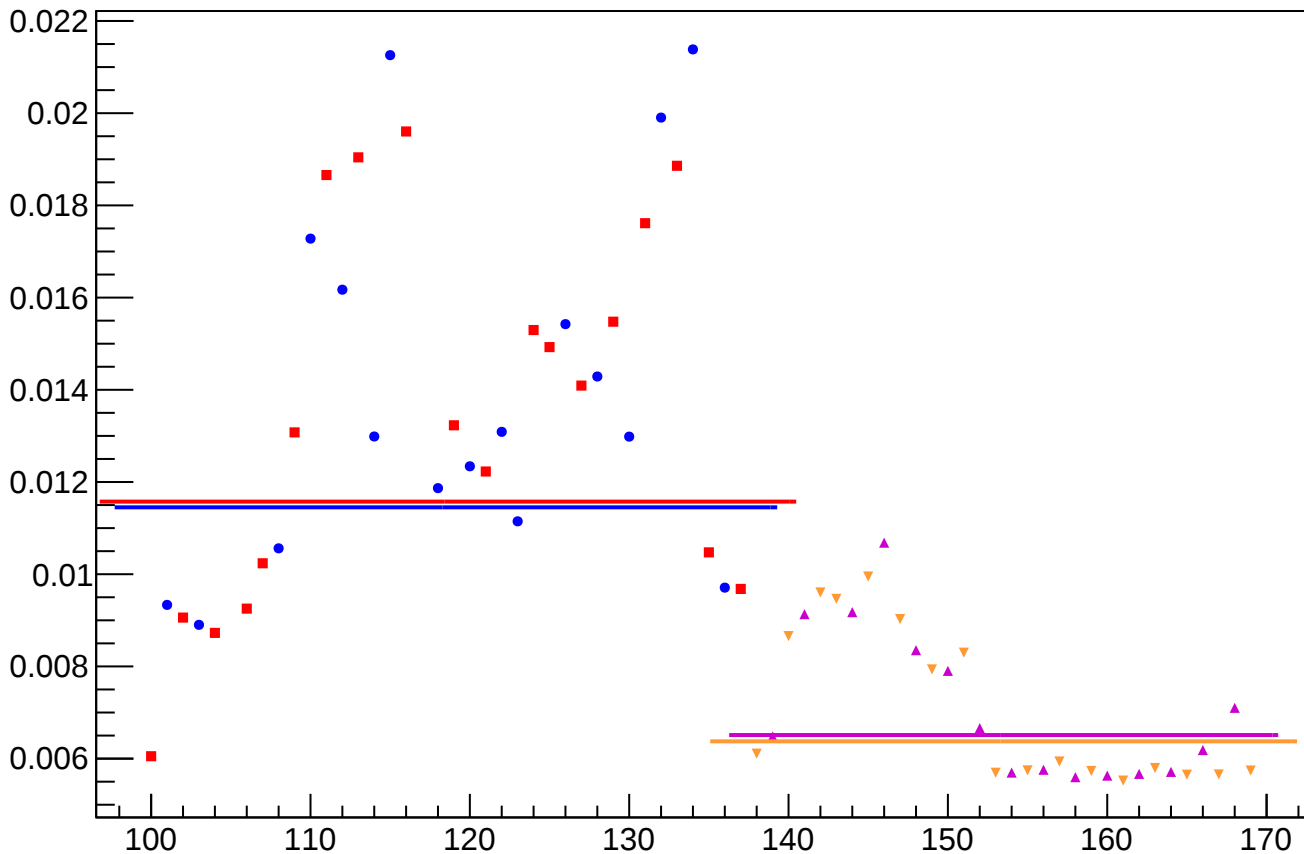
Left In: -0.112+/-0.000

χ²/NDF: 11507006433.6/14

All: -0.083+/-0.000

χ²/NDF: 30702978834.3/35

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 926010.1/16

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF : 791613.7/14

Left: 0.006+/-0.000 χ^2/NDF : 1722593.7/31

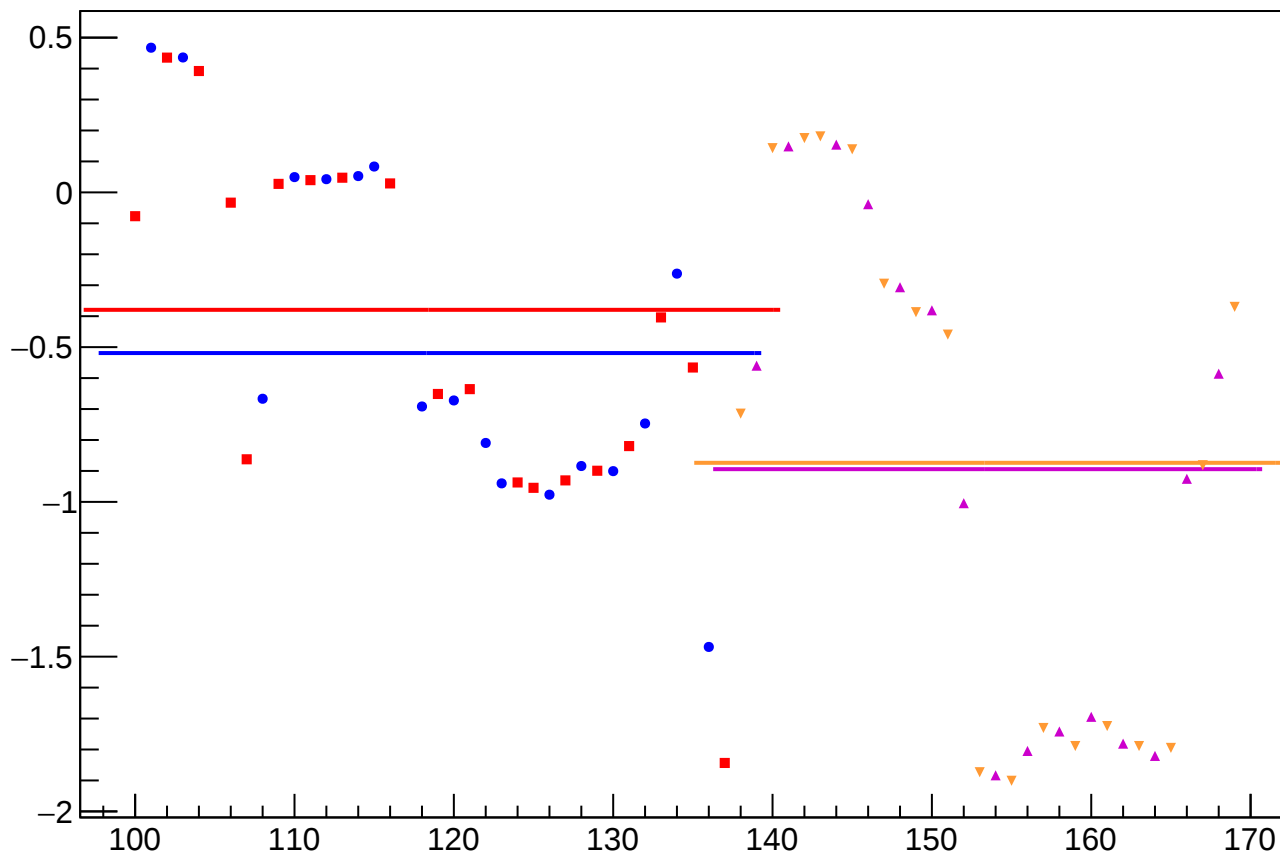
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF : 3289999.8/31

Out: 0.007+/-0.000 χ^2/NDF : 3994238.3/35

All: 0.007+/-0.000 χ^2/NDF : 7293363.6/67

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.874+/-0.000 χ^2/NDF :1038641217.1/16

Right Out: -0.379+/-0.000 χ^2/NDF : 268621179.0/18

Left In: -0.894+/-0.000 χ^2/NDF :866291787.8/14

Left: -0.884+/-0.000 χ^2/NDF : 1905258559.6/31

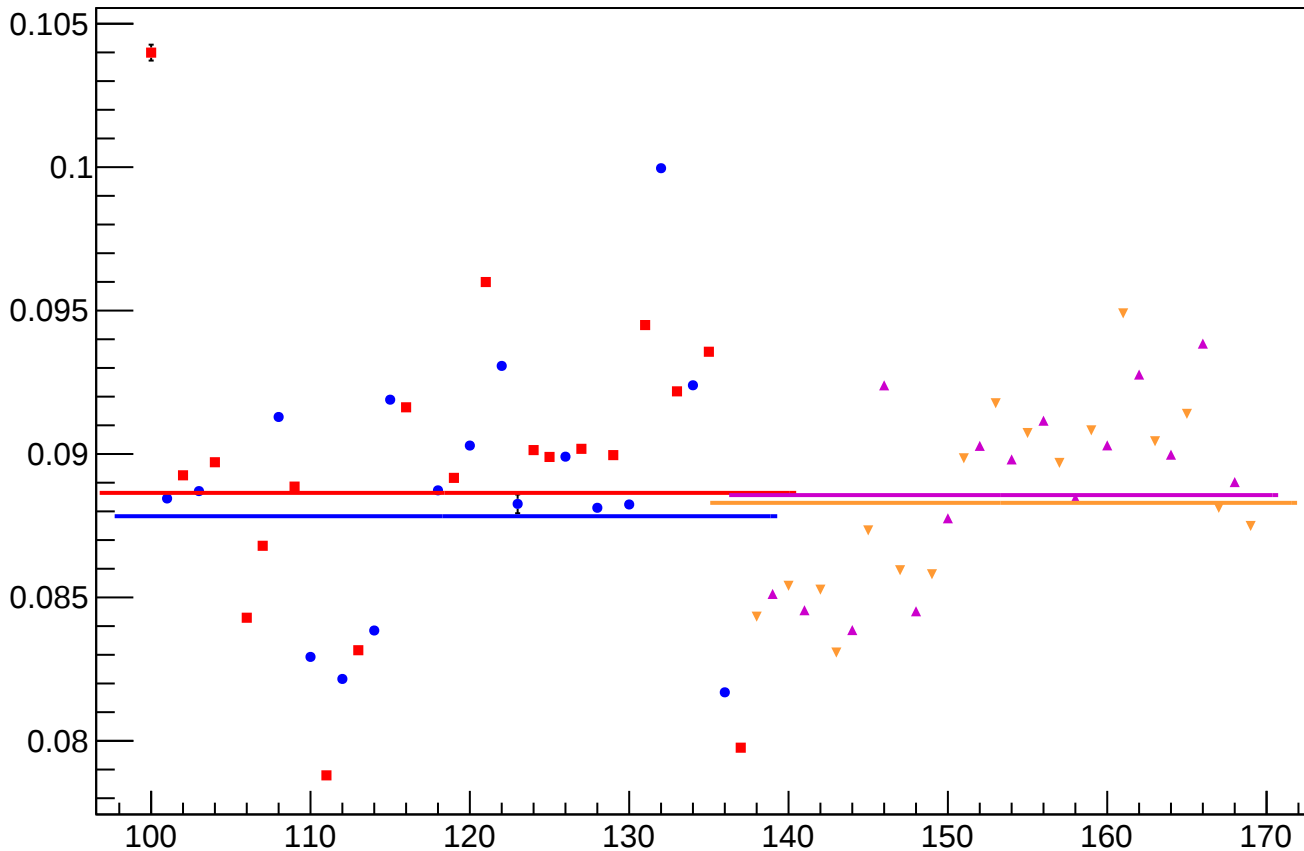
Right: -0.448+/-0.000 χ^2/NDF : 616632603.2/35

In: -0.756+/-0.000 χ^2/NDF :1282538514.5/31

Out: -0.697+/-0.000 χ^2/NDF :1448762470.8/35

All: -0.725+/-0.000 χ^2/NDF : 2735522238.8/6

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 : 29515.4/16

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 : 57181.8/31

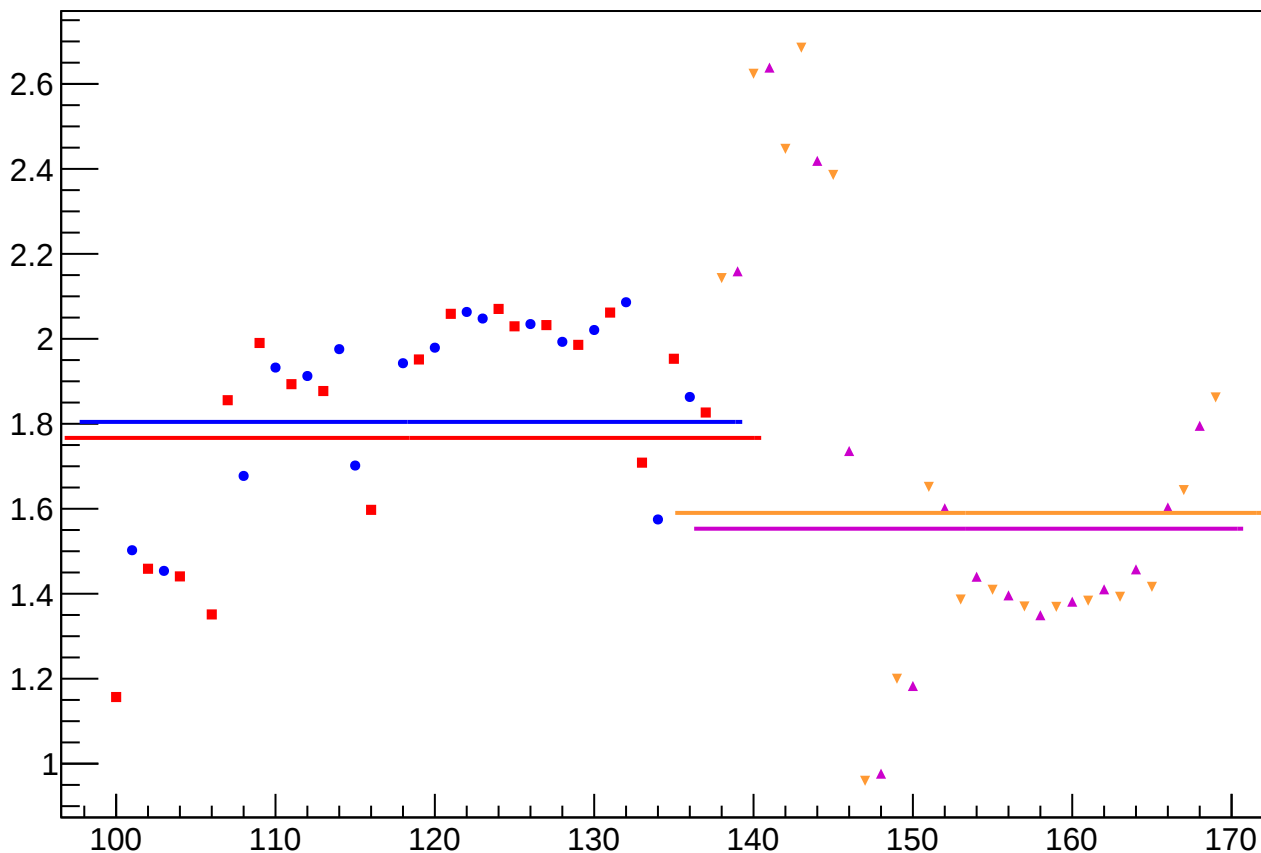
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 63100.3/31

Out: 0.088+/-0.000 χ^2/NDF : 69378.1/35

All: 0.088+/-0.000 χ^2/NDF : 132517.3/67

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.590 $\pm$ 0.000 χ^2 /NDF: 24319945228.0/16

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: 1.573 $\pm$ 0.000 χ^2 /NDF: 42835426280.9/31

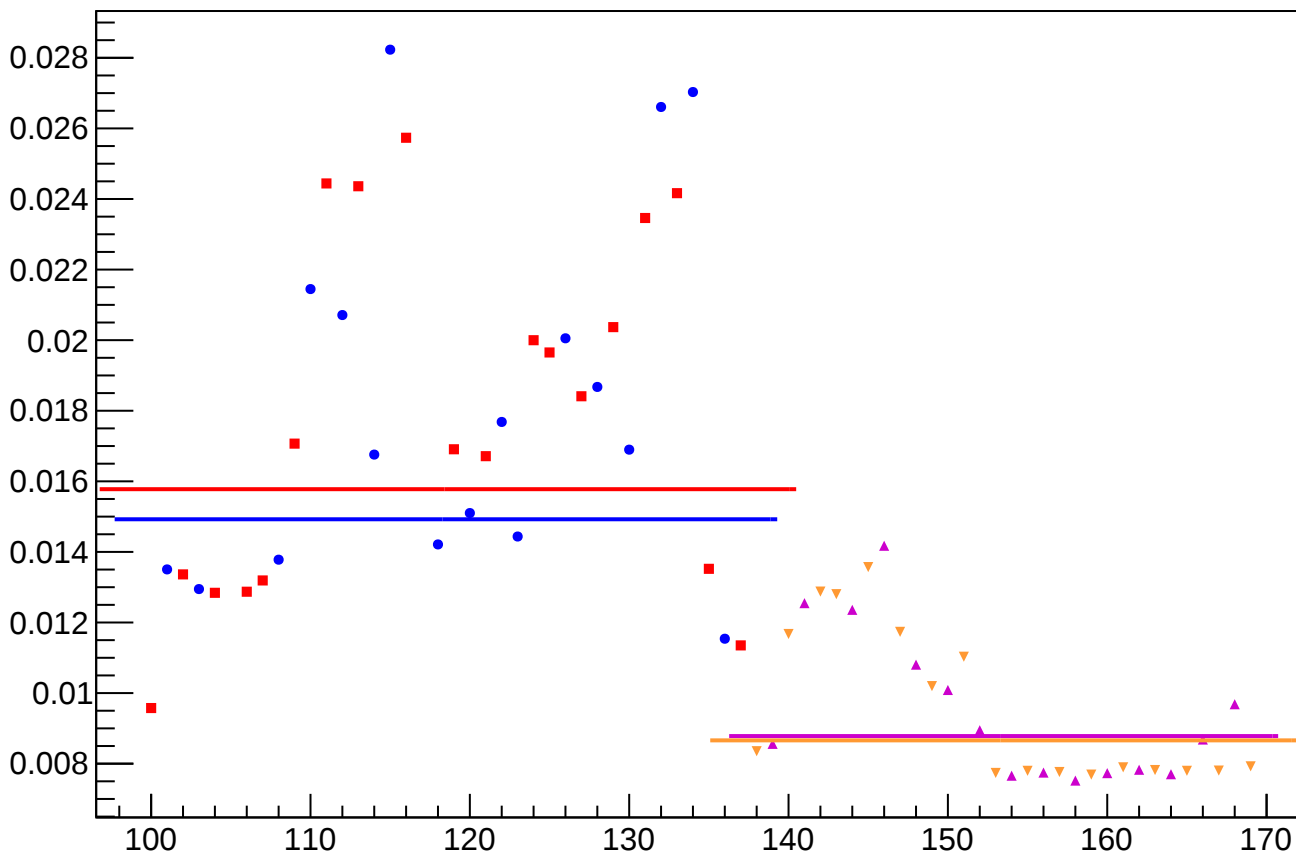
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.592 $\pm$ 0.000 χ^2 /NDF: 20946599198.9/31

Out: 1.614 $\pm$ 0.000 χ^2 /NDF: 26682545961.4/35

All: 1.604 $\pm$ 0.000 χ^2 /NDF: 47669117874.3/6

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 :842665.7/16

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 : 1583027.0/31

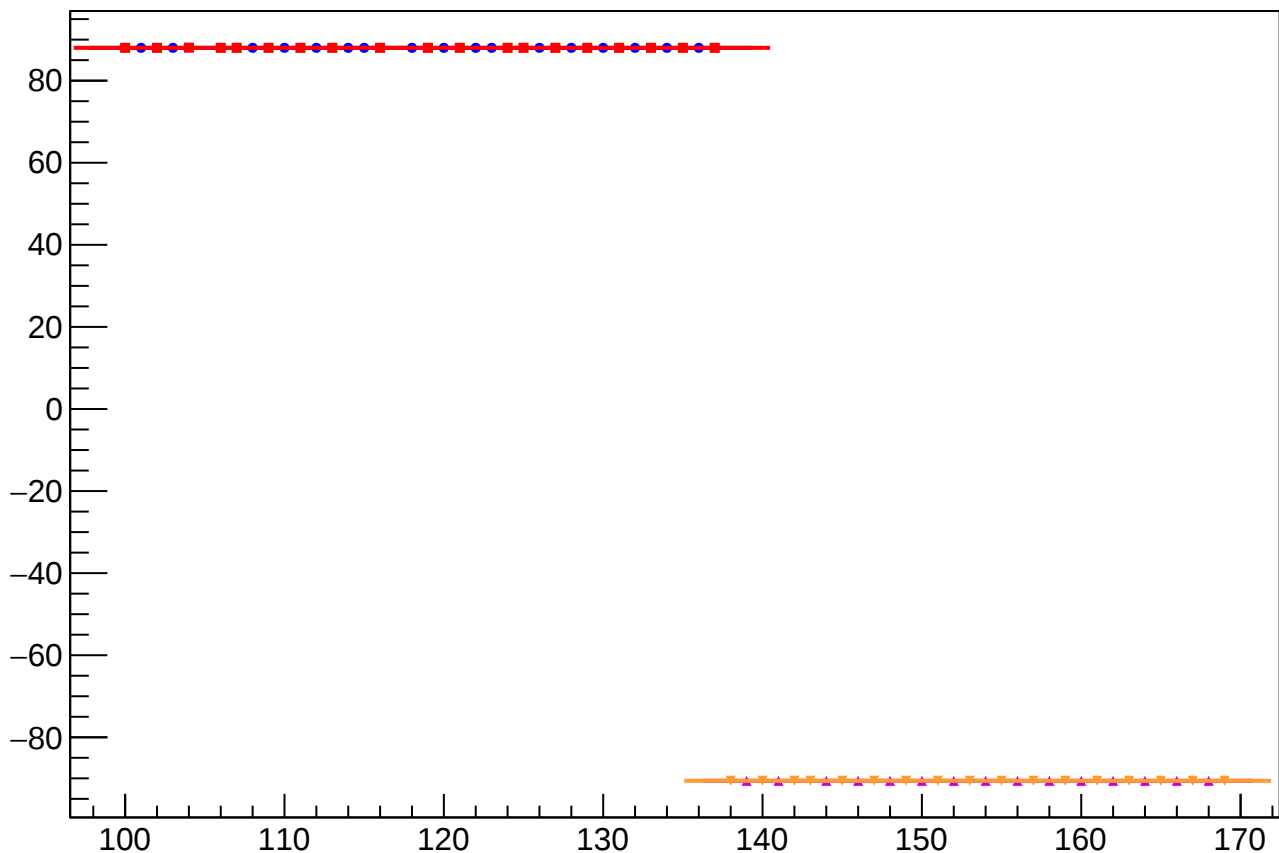
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF :3025035.8/31

Out: 0.010+/-0.000 χ^2/NDF :3753521.7/35

All: 0.010+/-0.000 χ^2/NDF : 6781323.8/67

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 : 5439076.0/16

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 : 10774754.5/31

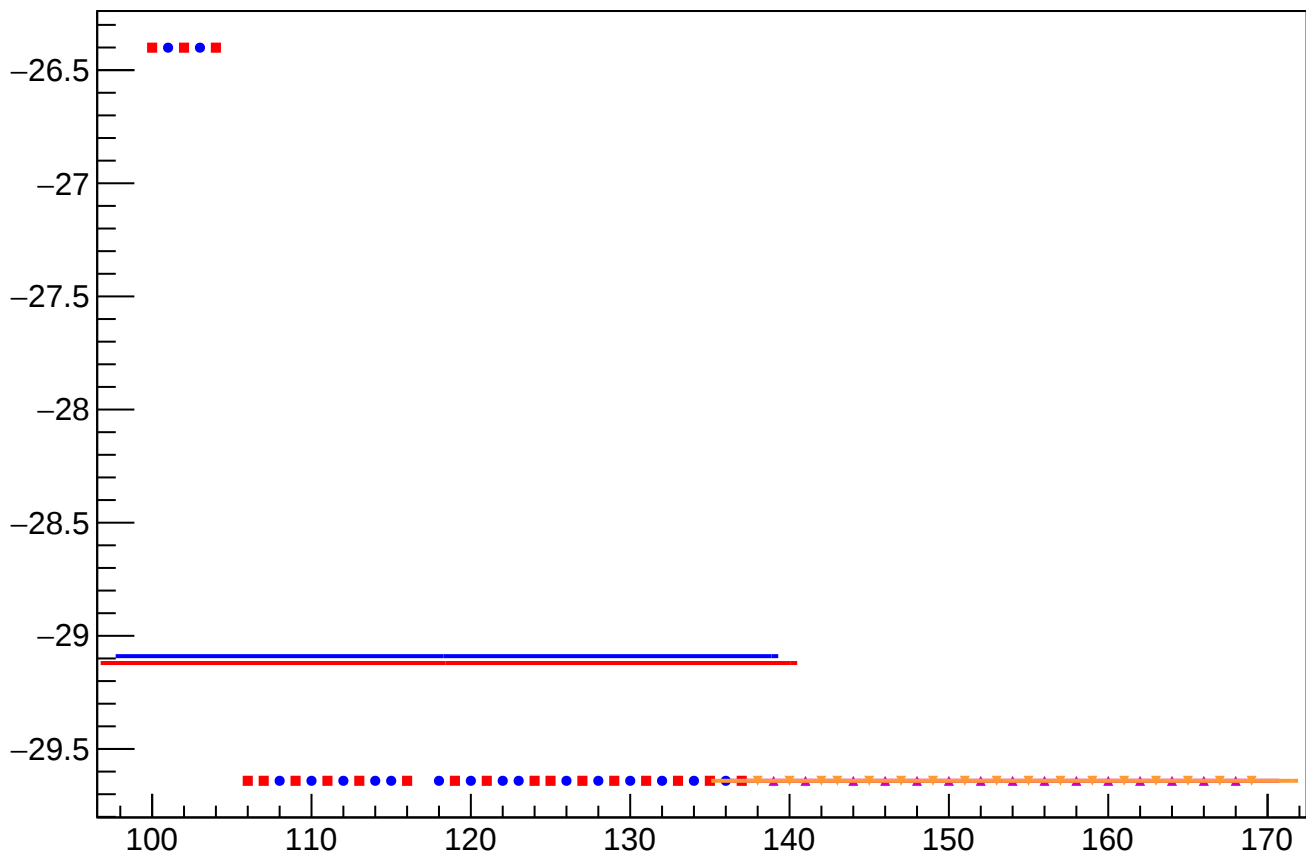
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -25.329+/-0.000 χ^2/NDF : 14047028440863592

Out: -27.201+/-0.000 χ^2/NDF : 1485582895940369

All: -26.297+/-0.000 χ^2/NDF : 289063008101

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 : 221348.1/16

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 145188.3/14

Left: -29.641+/-0.000 χ^2/NDF : 565278.8/31

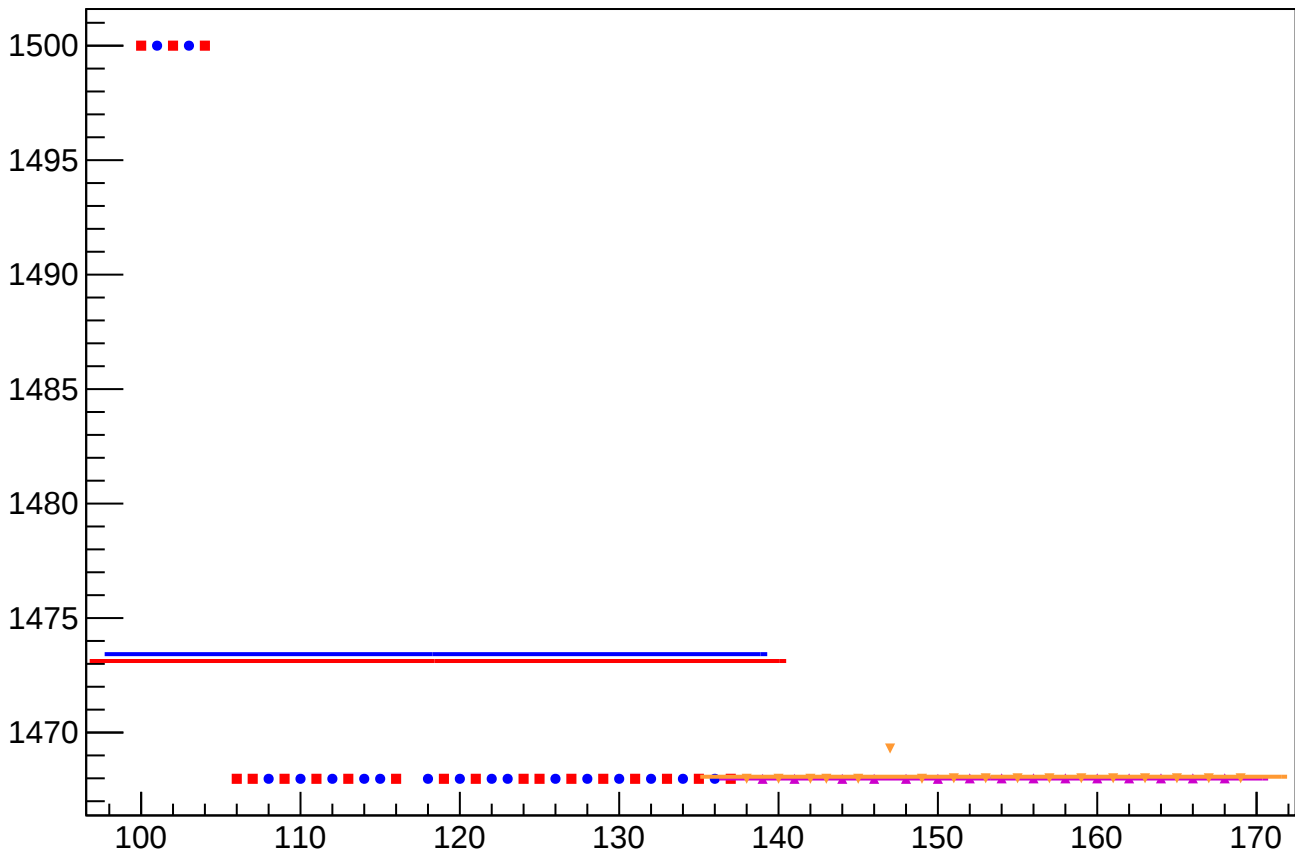
Right: -29.105+/-0.000 χ^2/NDF : 205050154576273.0/16

In: -29.439+/-0.000 χ^2/NDF : 11617454559241592.0/16

Out: -29.456+/-0.000 χ^2/NDF : 1148274350442456.0/18

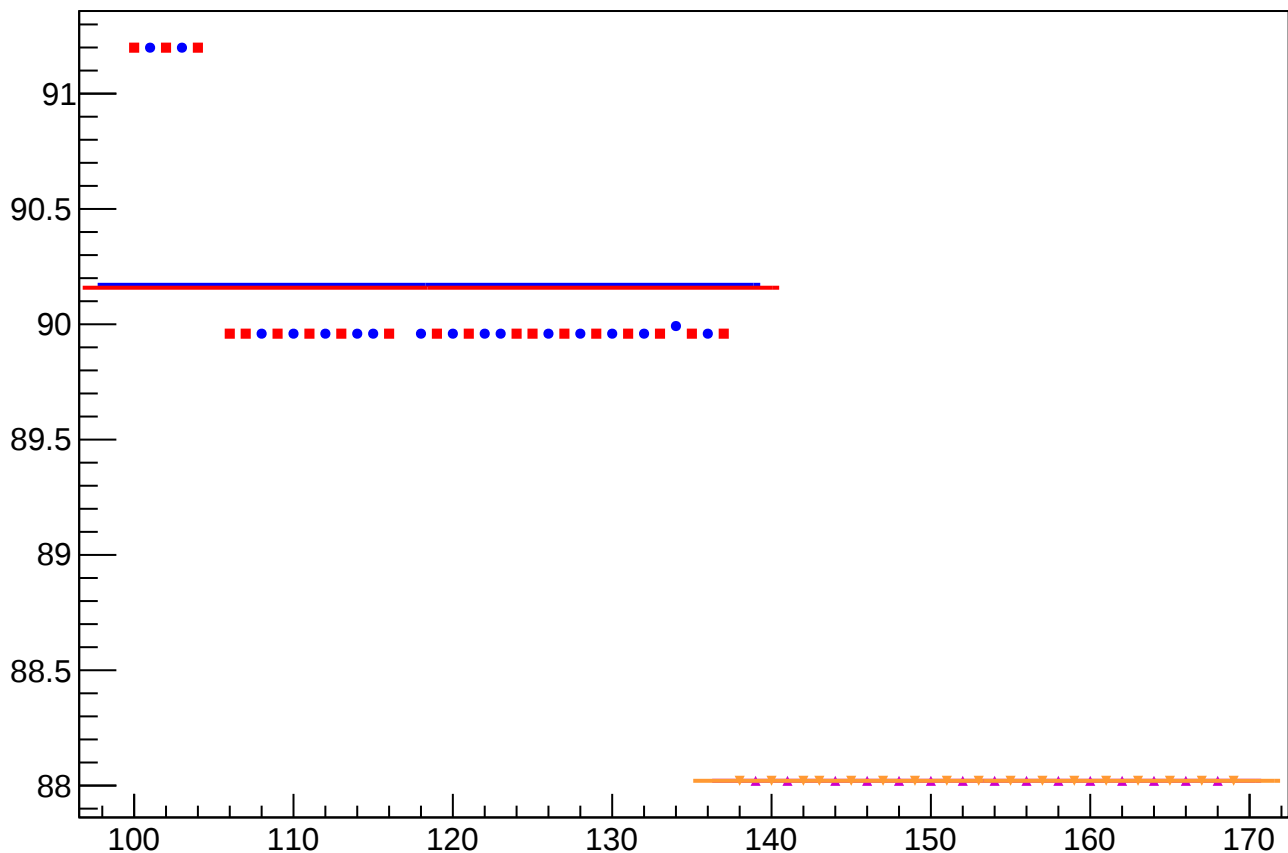
All: -29.448+/-0.000 χ^2/NDF : 231028874691.0/31

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.070+/-0.000 χ^2/NDF : 125879565145714116034648365596672.0/16
 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: 1469.918+/-0.000 χ^2/NDF : 2252864553

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left: 88.021+/-0.000 χ^2/NDF : 11821251.1/31

Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

Left Out: 88.021+/-0.000

χ^2/NDF : 4510719.3/16

In: 88.807+/-0.000 χ^2/NDF : 218675861035210593

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

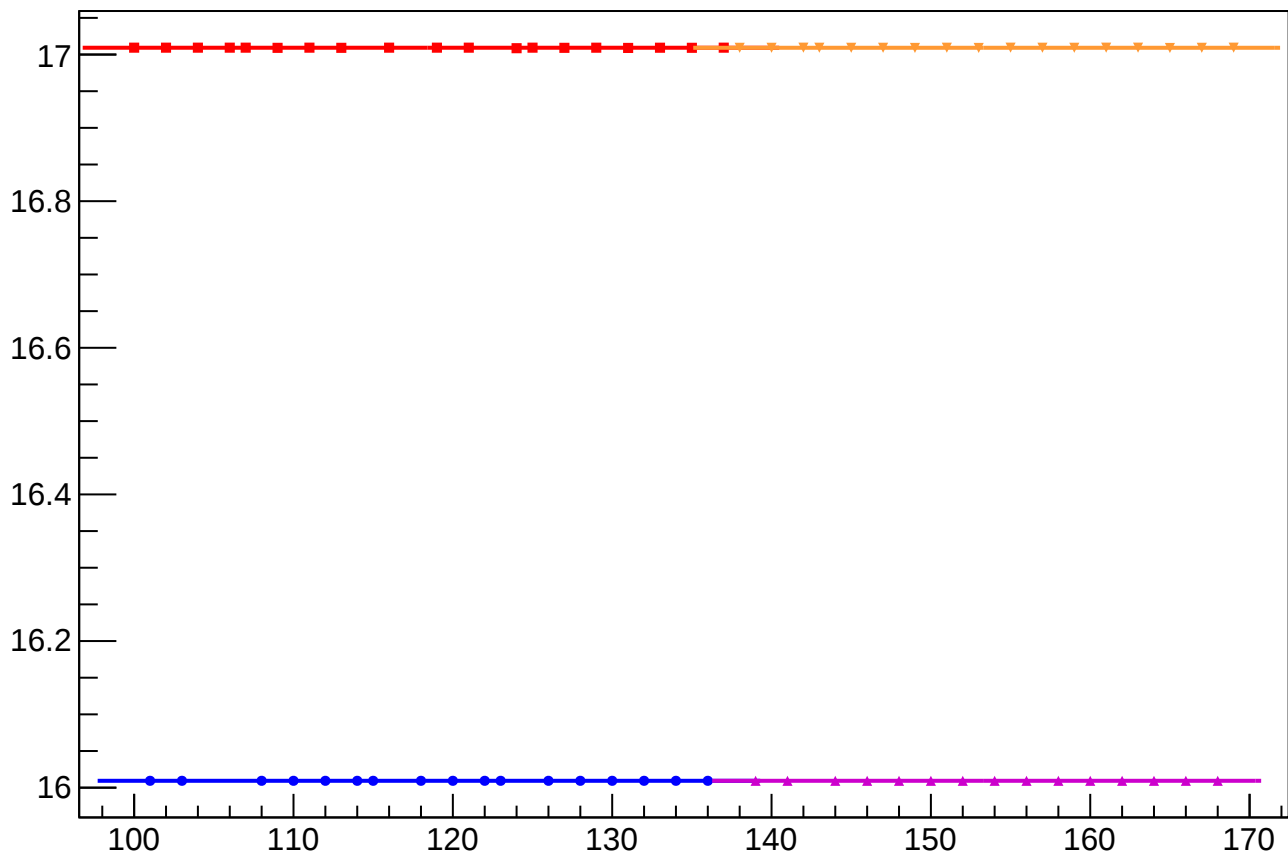
Out: 88.780+/-0.000 χ^2/NDF : 22781460590225913

Left In: 88.021+/-0.000

χ^2/NDF : 5120603.4/14

All: 88.793+/-0.000 χ^2/NDF : 4465622441867

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009+/-0.000 χ^2/NDF : 19455043727541373398679552.0/16

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 56368.8/14

Left: 16.528+/-0.000 χ^2/NDF : 58123897432578083

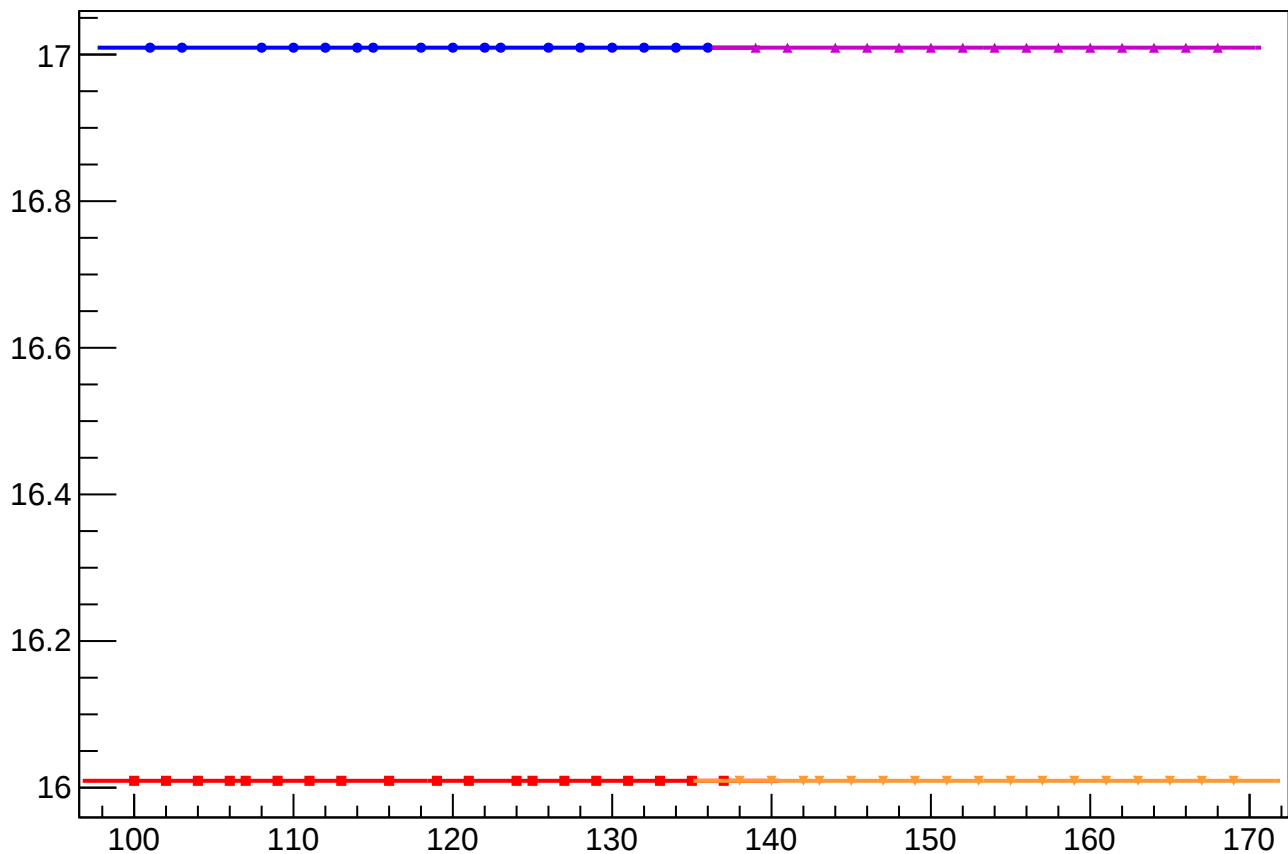
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 190184.9/31

Out: 17.009+/-0.000 χ^2/NDF : 32928577369331928

All: 16.520+/-0.000 χ^2/NDF : 9105785186209

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 53857.1/16

Right Out: 16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: 17.009+/-0.000 χ^2/NDF : 39026.5/14

Left: 16.485+/-0.000 χ^2/NDF : 62082764162310870

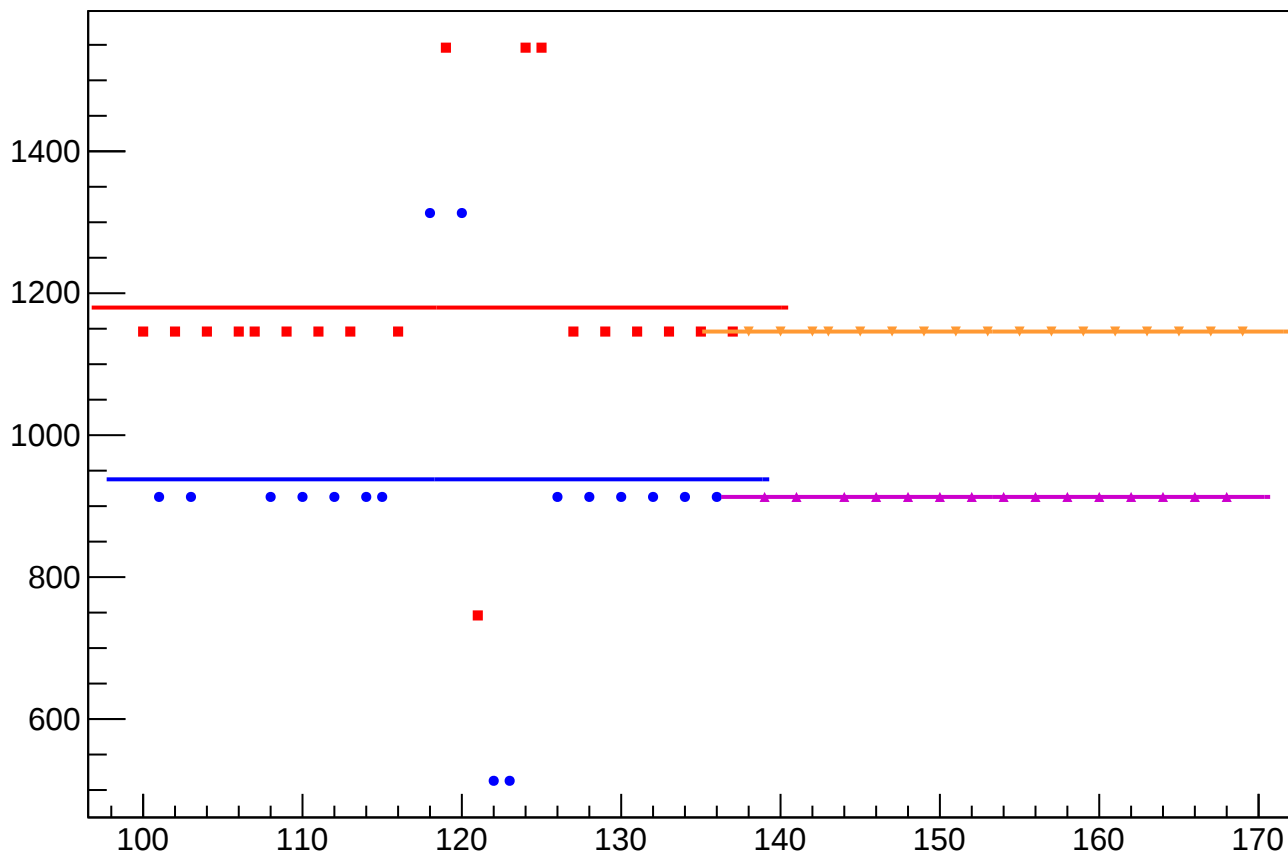
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 360667.2/31

Out: 16.009+/-0.000 χ^2/NDF : 284292.8/35

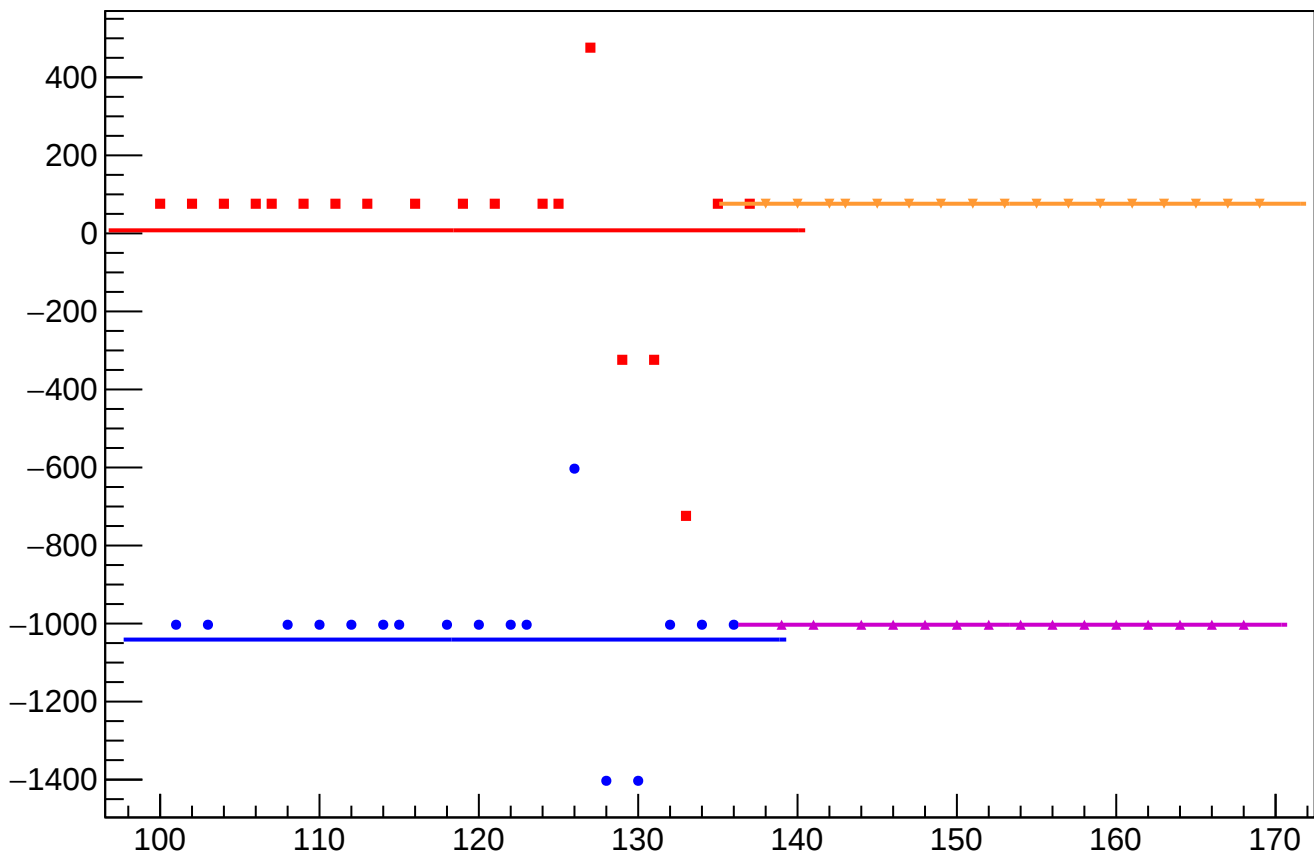
All: 16.487+/-0.000 χ^2/NDF : 9645869115364

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1034.456 $\pm$ 0.000 χ^2/NDF : 341044765839557
 Right: 1061.185 $\pm$ 0.000 χ^2/NDF : 62999129654777
 In: 922.052 $\pm$ 0.000 χ^2/NDF : 21125559818172882
 Out: 1158.007 $\pm$ 0.000 χ^2/NDF : 219479722830976
 All: 1044.079 $\pm$ 0.000 χ^2/NDF : 97751043119

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 : 10360687941574707124908326912.0/16
 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: -464.193+/-0.000 χ^2/NDF : 11910161737