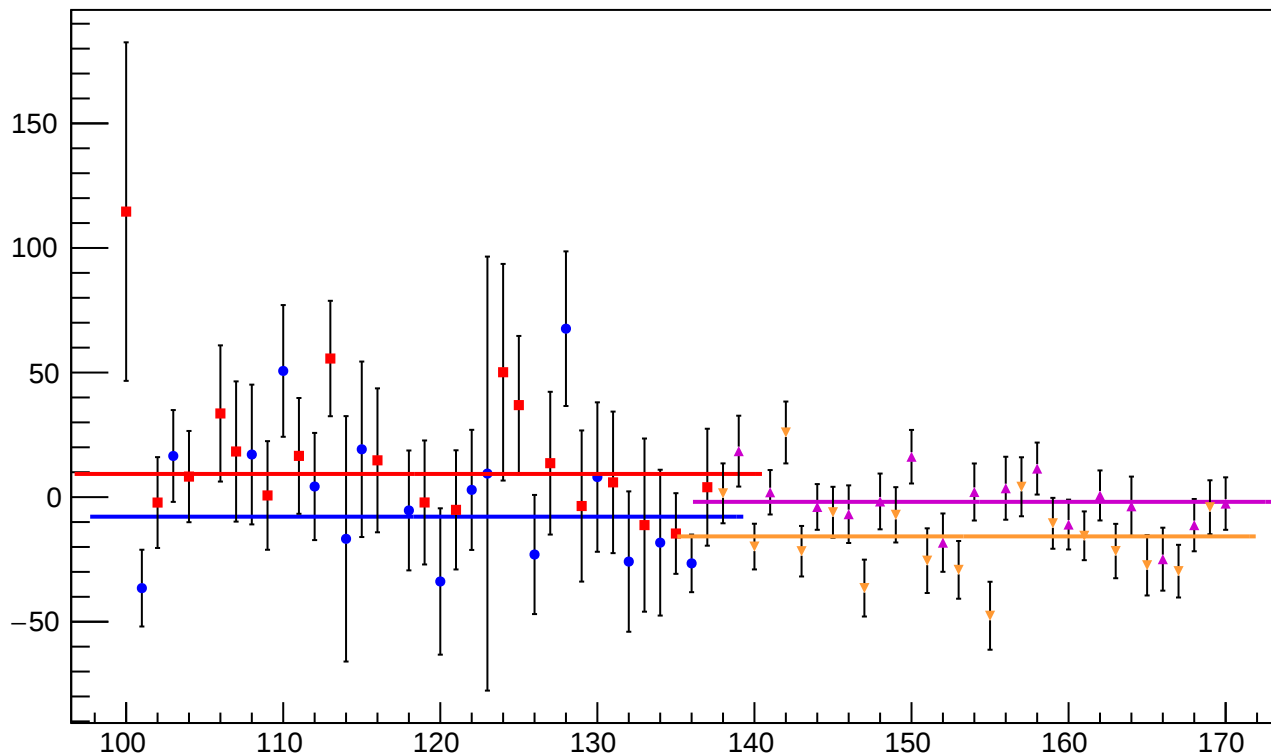


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 $\pm$ 5.608

χ^2/NDF : 22.6/16

Left Out: -15.754 $\pm$ 2.682

χ^2/NDF : 33.3/16

Right Out: 9.309 $\pm$ 5.677

χ^2/NDF : 13.2/18

Left In: -1.892 $\pm$ 2.719

χ^2/NDF : 14.2/15

Left: -8.918 $\pm$ 1.910

χ^2/NDF : 60.7/32

Right: 0.629 $\pm$ 3.990

χ^2/NDF : 40.5/35

In: -3.024 $\pm$ 2.447

χ^2/NDF : 37.8/32

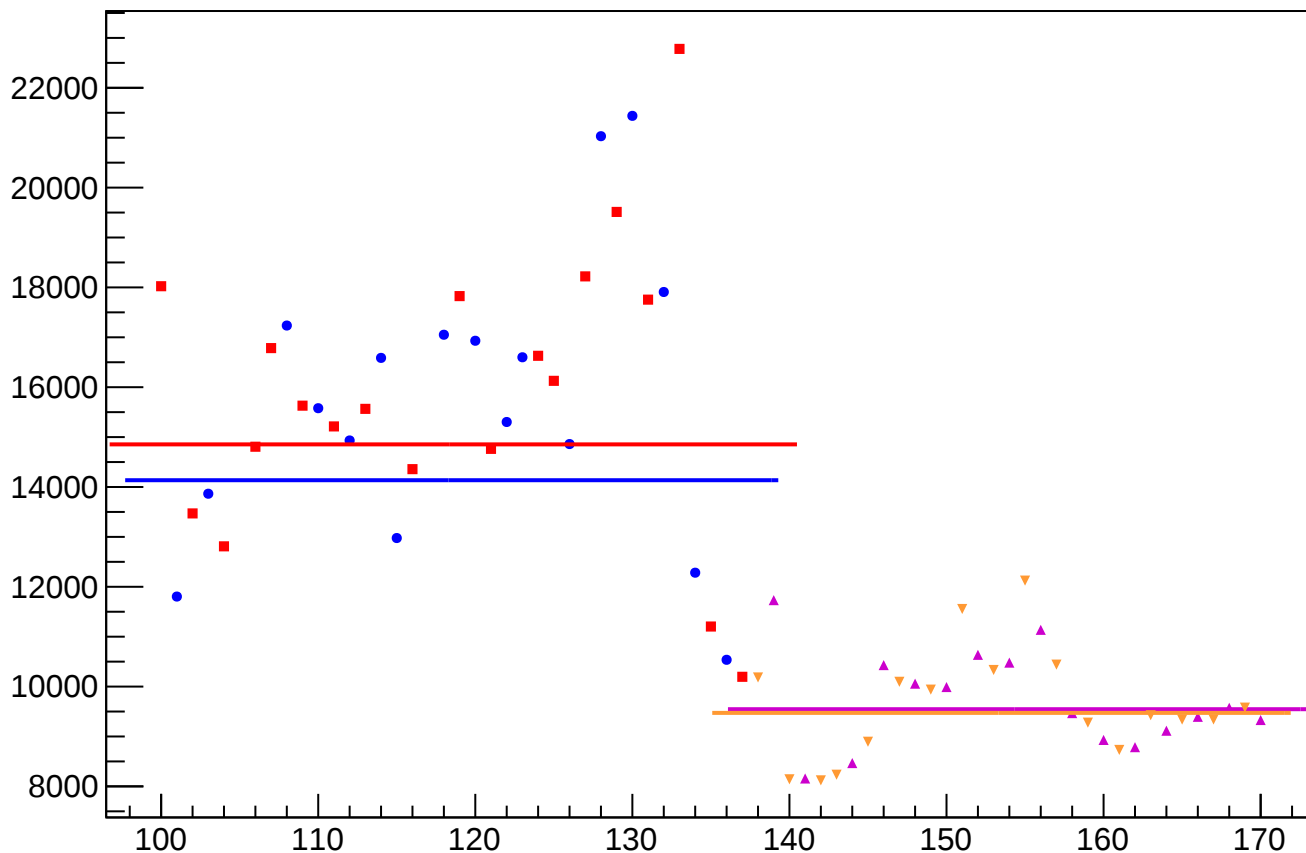
Out: -11.180 $\pm$ 2.425

χ^2/NDF : 62.4/35

All: -7.139 $\pm$ 1.723

χ^2/NDF : 105.8/68

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: 9546.708+/-1.923 χ^2/NDF : 227953.5/15

Left: 9509.277+/-1.350 χ^2/NDF : 511649.3/32

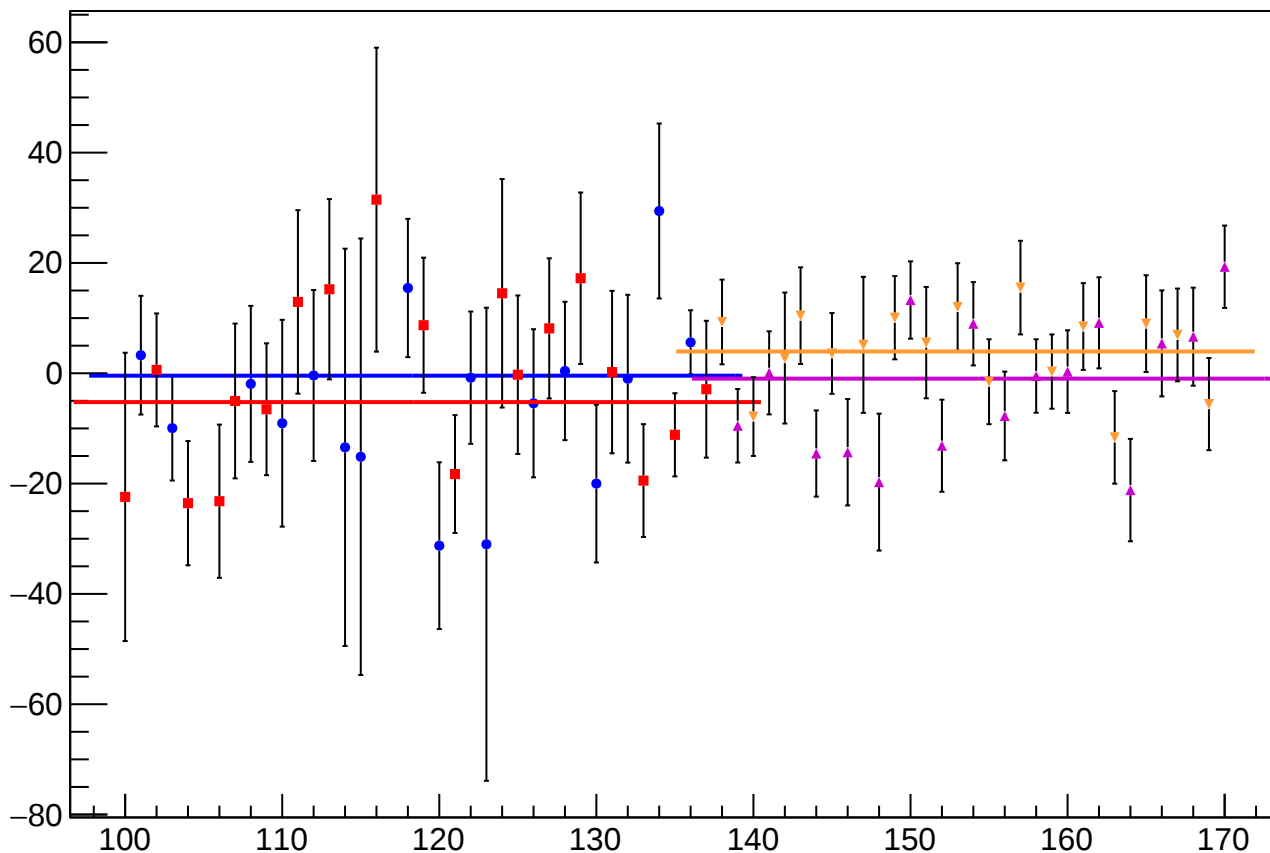
Right: 14490.533+/-2.821 χ^2/NDF : 1085397.6/35

In: 10420.316+/-1.730 χ^2/NDF : 1909326.5/32

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

All: 10437.763+/-1.218 χ^2/NDF : 4133433.0/66

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: -0.974 ± 2.002 χ^2/NDF : 32.4/15

Left: 1.488 ± 1.415 χ^2/NDF : 49.1/32

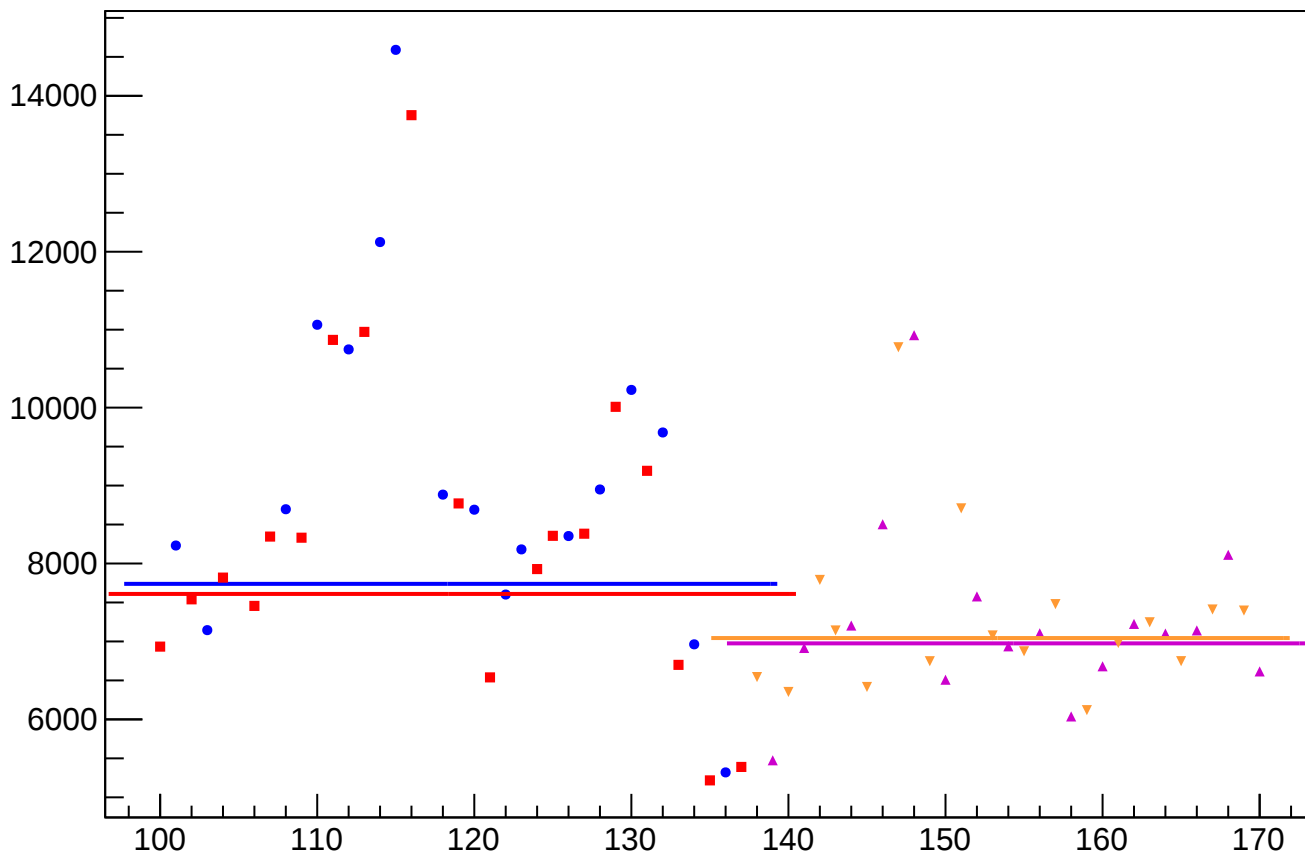
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -0.815 ± 1.677 χ^2/NDF : 47.0/32

Out: 1.038 ± 1.653 χ^2/NDF : 39.7/35

All: 0.124 ± 1.177 χ^2/NDF : 87.3/68

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886 ± 2.172 $\chi^2/\text{NDF}: 740836.7/16$

Left Out: 7043.665 ± 1.415 $\chi^2/\text{NDF}: 345772.2/16$

Right Out: 7609.531 ± 2.076 $\chi^2/\text{NDF}: 679180.7/18$

Left In: 6975.314 ± 1.415 $\chi^2/\text{NDF}: 459264.5/15$

Left: 7009.509 ± 1.001 $\chi^2/\text{NDF}: 806203.3/32$

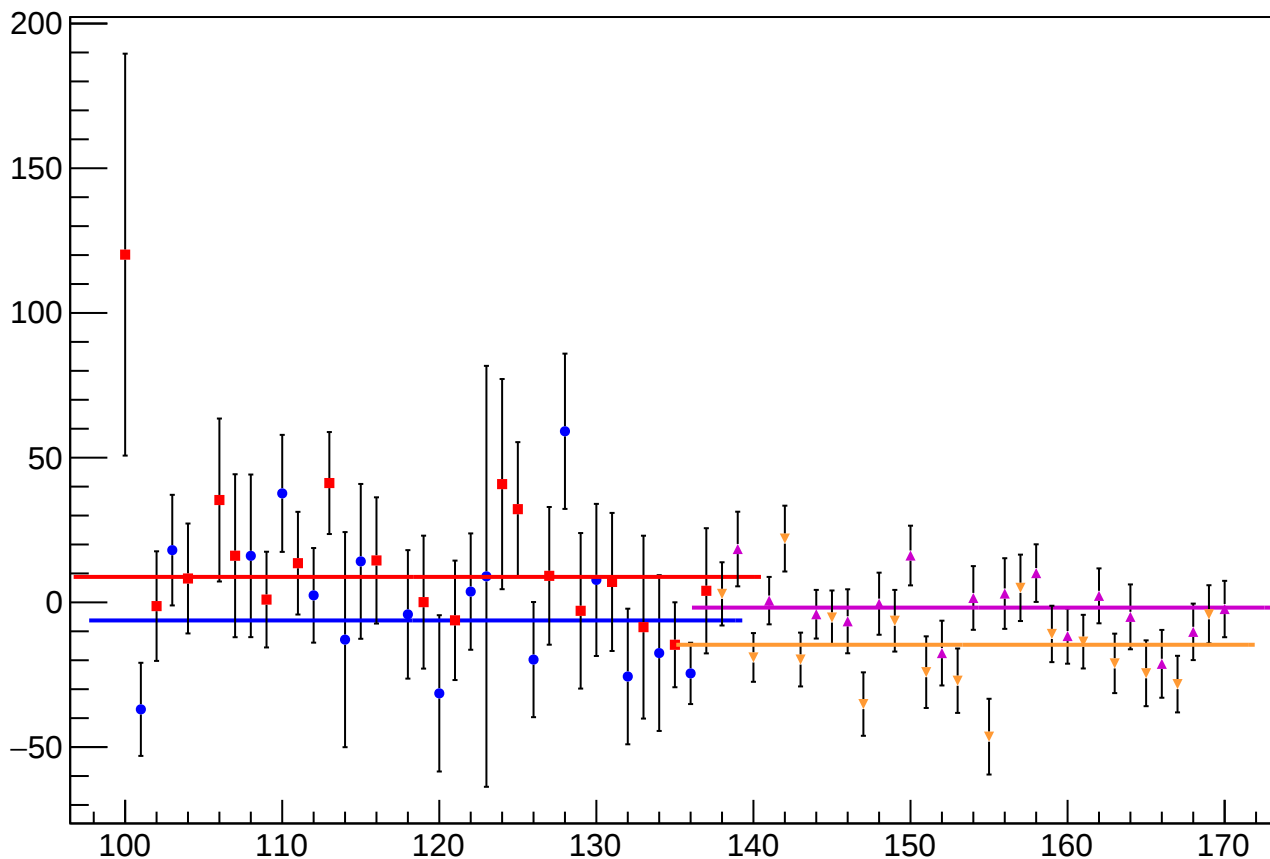
Right: 7671.298 ± 1.501 $\chi^2/\text{NDF}: 1421871.4/35$

In: 7202.992 ± 1.186 $\chi^2/\text{NDF}: 1286874.7/32$

Out: 7223.111 ± 1.169 $\chi^2/\text{NDF}: 1075692.1/35$

All: 7213.195 ± 0.832 $\chi^2/\text{NDF}: 2362712.8/68$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 ± 5.017 $\chi^2/\text{NDF}: 23.2/16$

Left Out: -14.646 ± 2.514 $\chi^2/\text{NDF}: 33.7/16$

Right Out: 8.802 ± 4.999 $\chi^2/\text{NDF}: 13.1/18$

Left In: -1.811 ± 2.559 $\chi^2/\text{NDF}: 14.3/15$

Left: -8.341 ± 1.793 $\chi^2/\text{NDF}: 60.8/32$

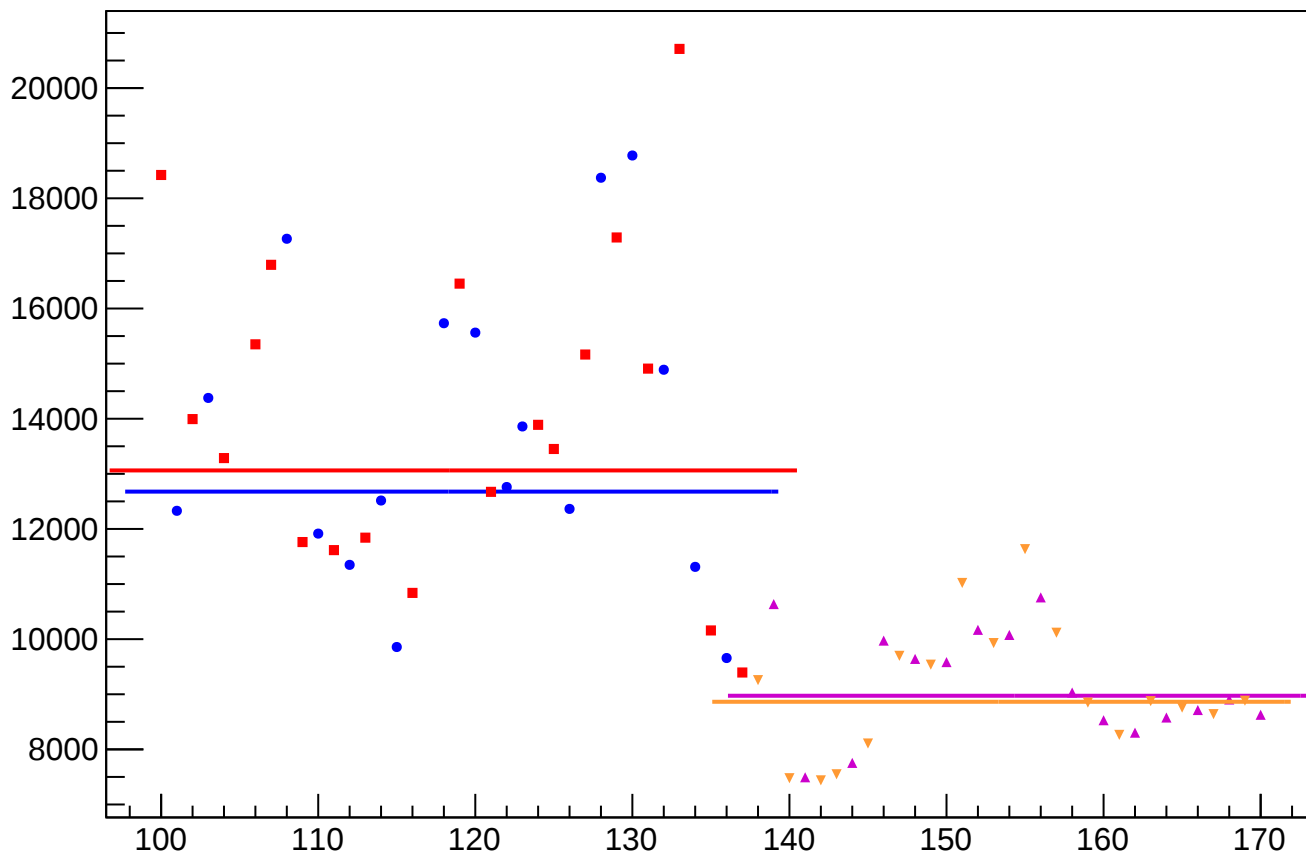
Right: 1.306 ± 3.541 $\chi^2/\text{NDF}: 40.9/35$

In: -2.726 ± 2.279 $\chi^2/\text{NDF}: 38.2/32$

Out: -9.913 ± 2.246 $\chi^2/\text{NDF}: 64.4/35$

All: -6.372 ± 1.600 $\chi^2/\text{NDF}: 107.6/68$

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: 8973.209+/-1.809 χ^2/NDF : 277865.5/15

Left: 8917.536+/-1.268 χ^2/NDF : 642852.3/32

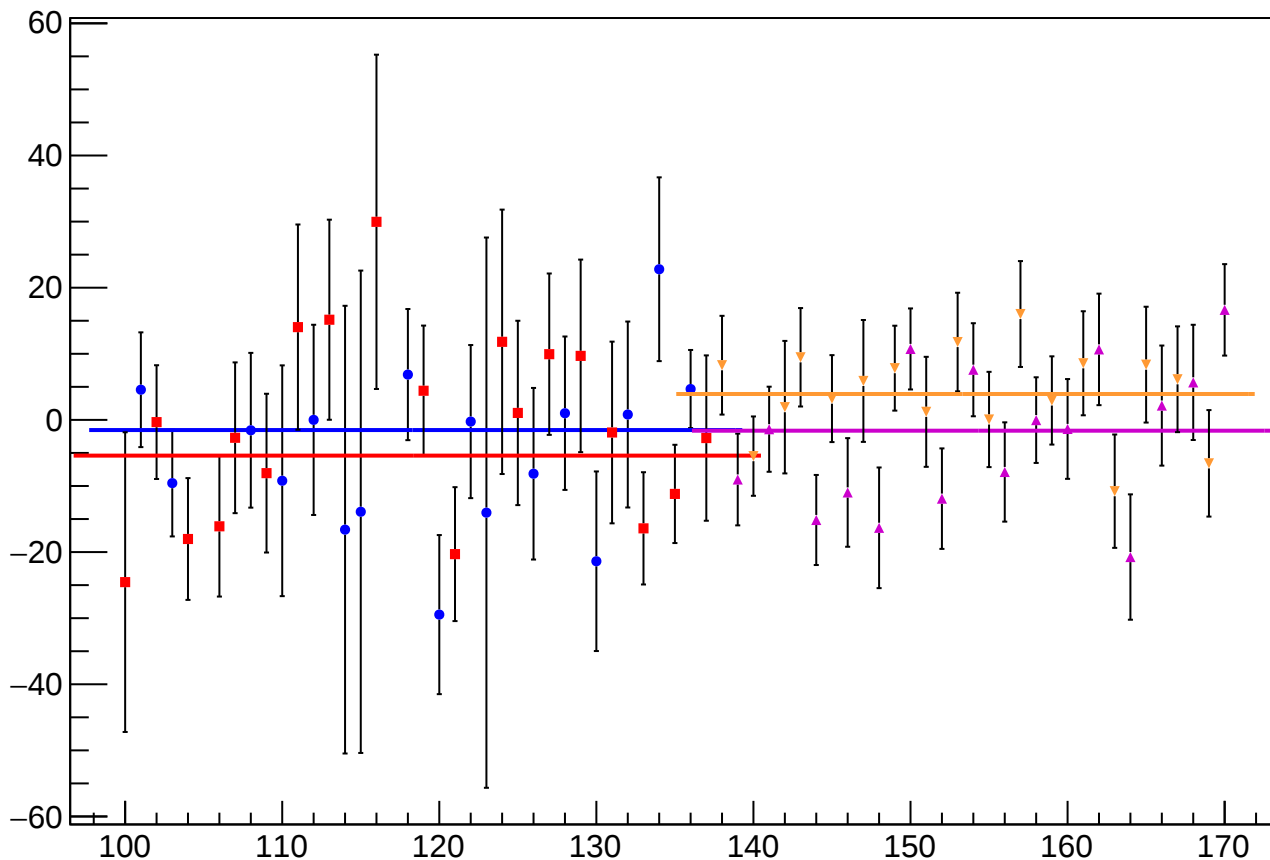
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9737.677+/-1.612 χ^2/NDF : 1696661.7/32

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

All: 9724.252+/-1.131 χ^2/NDF : 3682963.6/68

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: -1.634 ± 1.864 χ^2/NDF : 31.4/15

Left: 1.183 ± 1.309 χ^2/NDF : 48.8/32

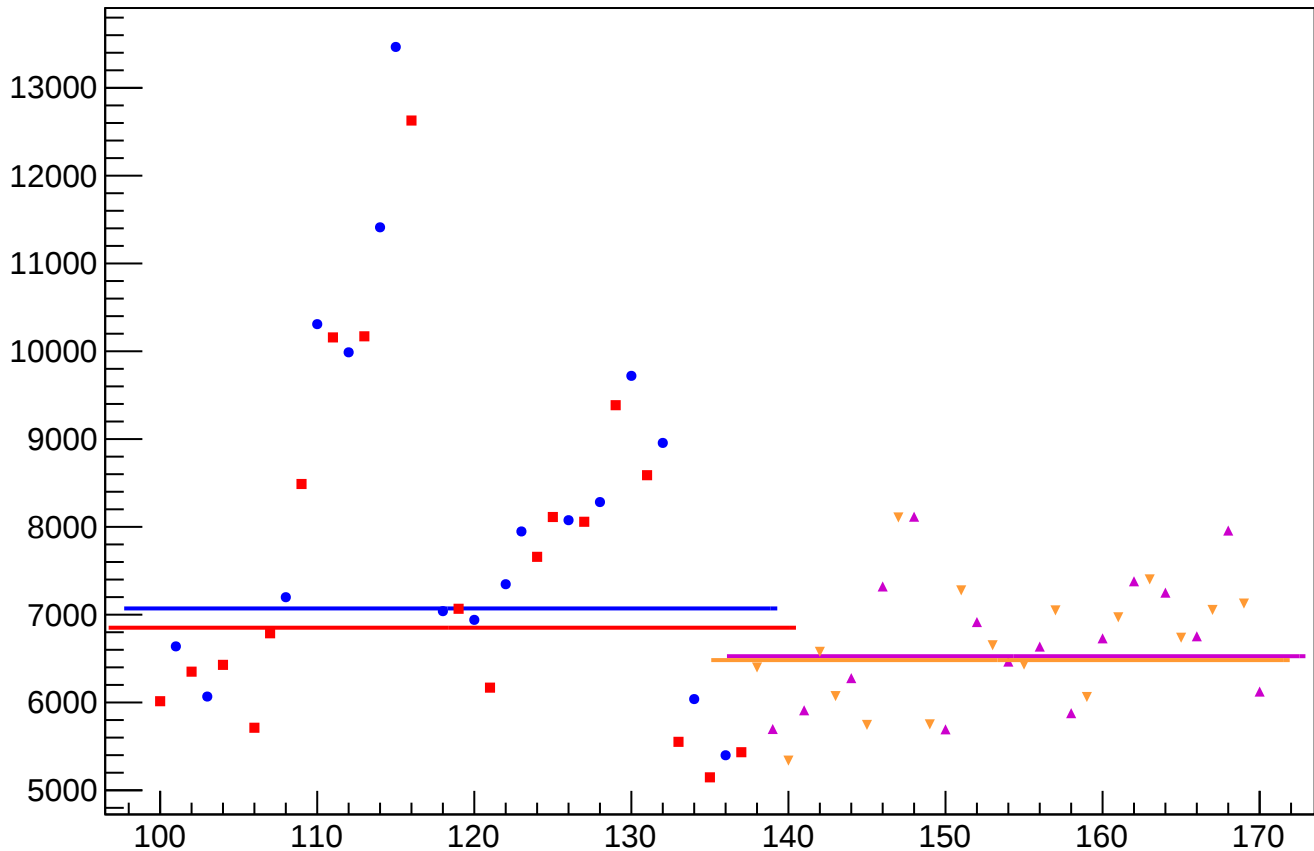
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -1.604 ± 1.550 χ^2/NDF : 46.2/32

Out: 0.876 ± 1.508 χ^2/NDF : 39.9/35

All: -0.330 ± 1.081 χ^2/NDF : 87.4/68

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043 ± 1.973 $\chi^2/\text{NDF}: 600748.1/16$

Left Out: 6482.606 ± 1.299 $\chi^2/\text{NDF}: 285044.7/16$

Right Out: 6851.604 ± 1.866 $\chi^2/\text{NDF}: 684398.7/18$

Left In: 6527.017 ± 1.318 $\chi^2/\text{NDF}: 287118.3/15$

Left: 6504.489 ± 0.925 $\chi^2/\text{NDF}: 572738.8/32$

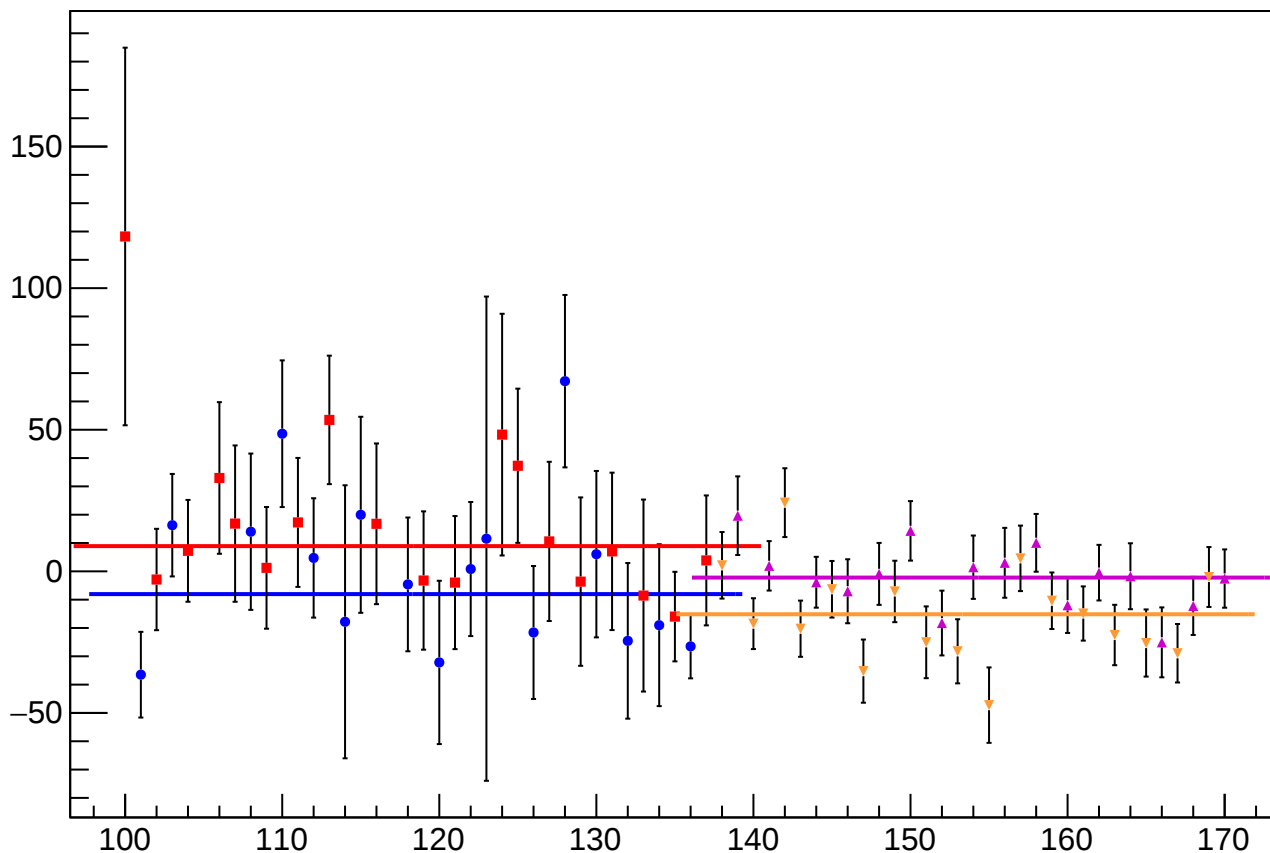
Right: 6955.236 ± 1.356 $\chi^2/\text{NDF}: 1291674.4/35$

In: 6694.897 ± 1.096 $\chi^2/\text{NDF}: 940429.5/32$

Out: 6603.030 ± 1.066 $\chi^2/\text{NDF}: 995771.9/35$

All: 6647.699 ± 0.764 $\chi^2/\text{NDF}: 1939810.6/68$

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 $\pm$ 5.497 χ^2/NDF : 22.6/16

Left Out: -15.153 $\pm$ 2.622 χ^2/NDF : 33.1/16

Right Out: 8.907 $\pm$ 5.566 χ^2/NDF : 13.7/18

Left In: -2.207 $\pm$ 2.658 χ^2/NDF : 14.5/15

Left: -8.768 $\pm$ 1.867 χ^2/NDF : 59.6/32

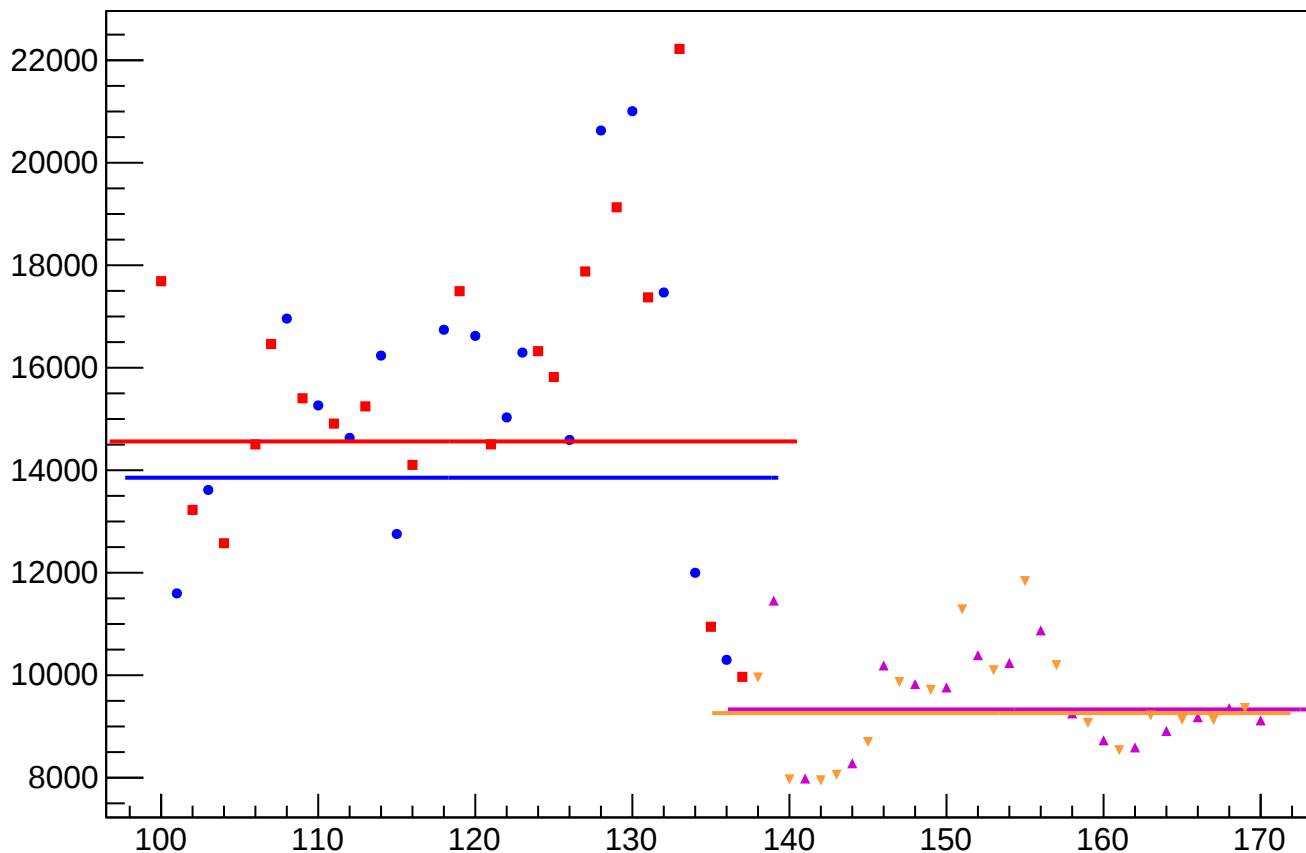
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -3.312 $\pm$ 2.393 χ^2/NDF : 38.0/32

Out: -10.784 $\pm$ 2.372 χ^2/NDF : 62.1/35

All: -7.081 $\pm$ 1.685 χ^2/NDF : 105.0/68

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: 9332.264 $\pm$ 1.880 χ^2 /NDF: 225259.0/15

Left: 9296.230 $\pm$ 1.320 χ^2 /NDF: 505710.5/32

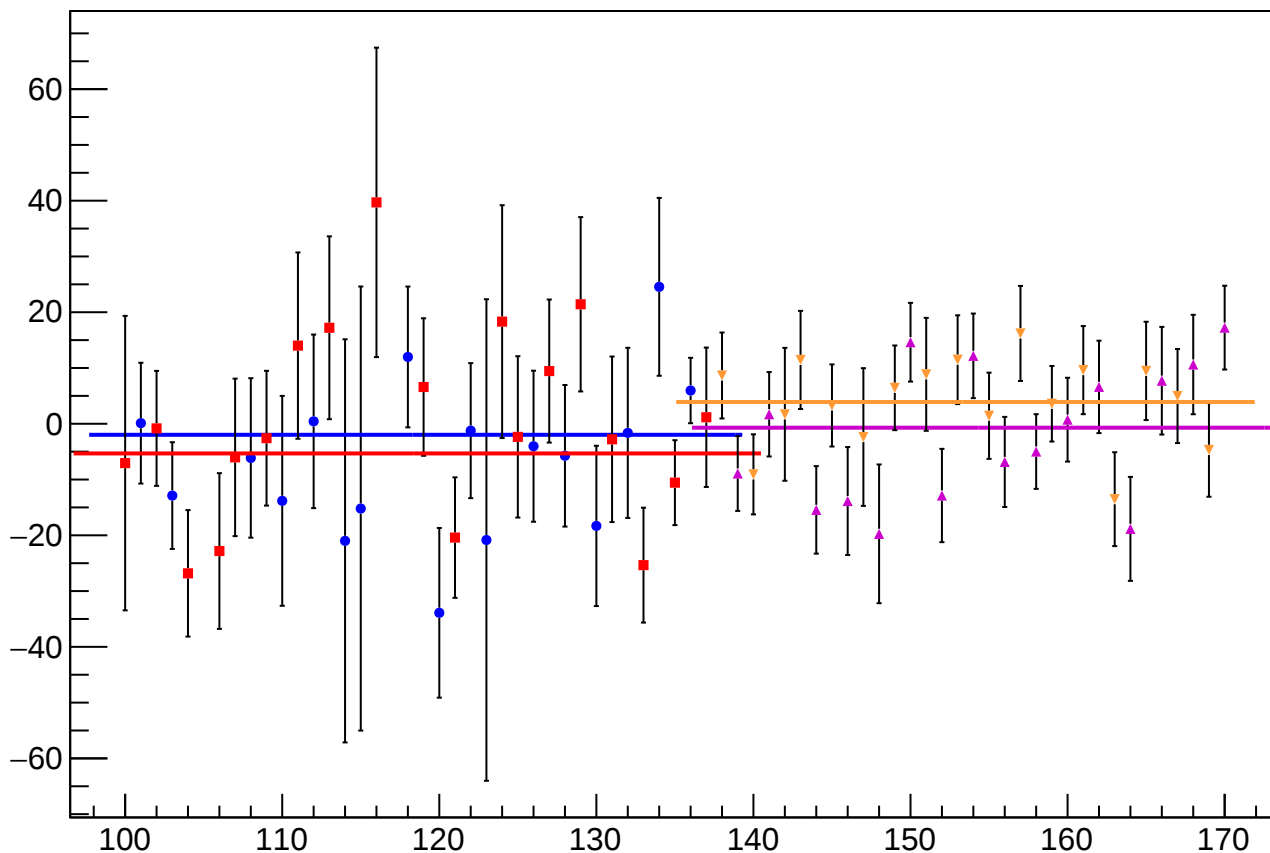
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 10189.161 $\pm$ 1.692 χ^2 /NDF: 1922997.1/32

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

All: 10206.700 $\pm$ 1.191 χ^2 /NDF: 4161831.0/6

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: -0.705 ± 2.011 χ^2/NDF : 32.7/15

Left: 1.603 ± 1.421 χ^2/NDF : 49.7/32

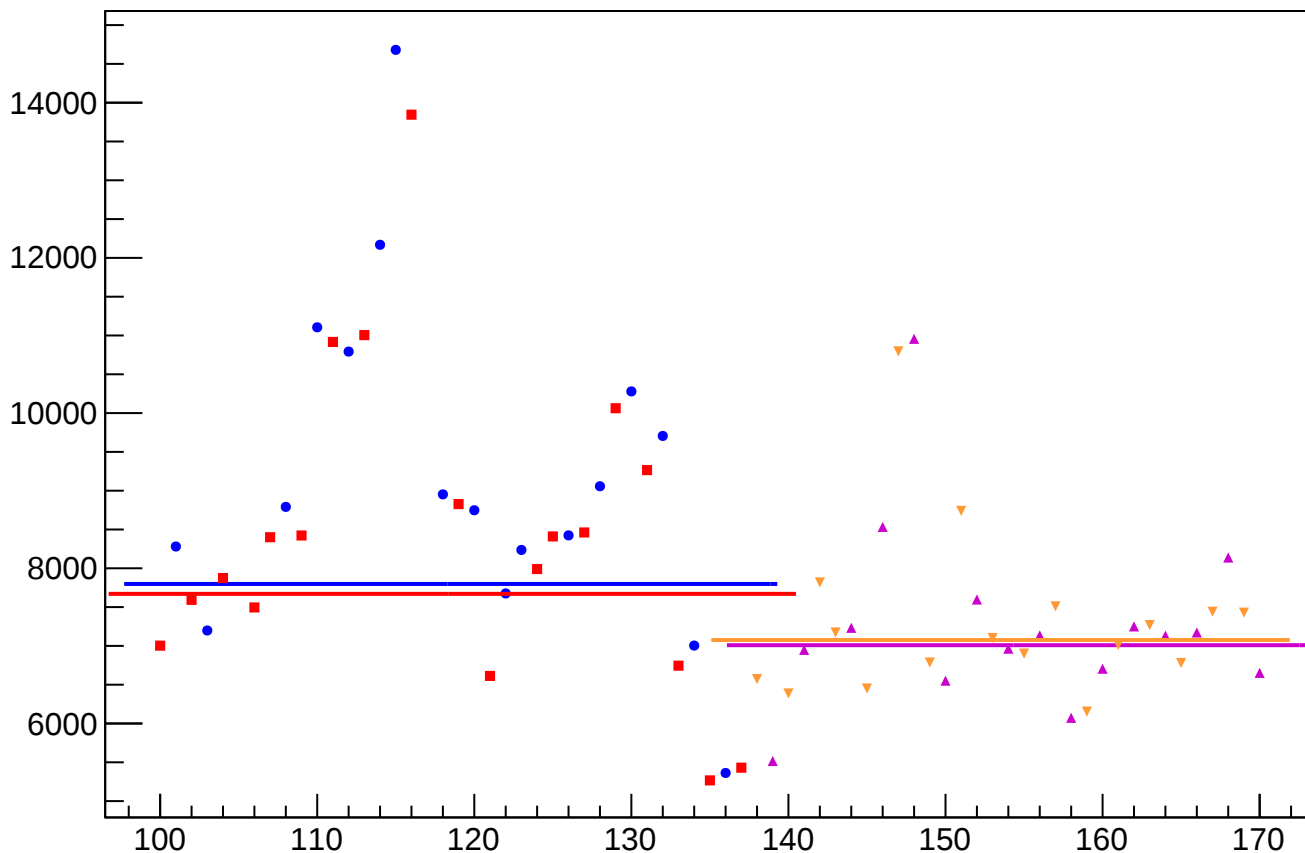
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.083 ± 1.686 χ^2/NDF : 46.9/32

Out: 0.995 ± 1.662 χ^2/NDF : 45.3/35

All: -0.029 ± 1.184 χ^2/NDF : 93.0/68

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7076.141+/-1.421 χ^2/NDF :341884.7/16

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

Left In: 7009.139+/-1.422 χ^2/NDF :452252.0/15

Left: 7042.666+/-1.005 χ^2/NDF : 795247.6/32

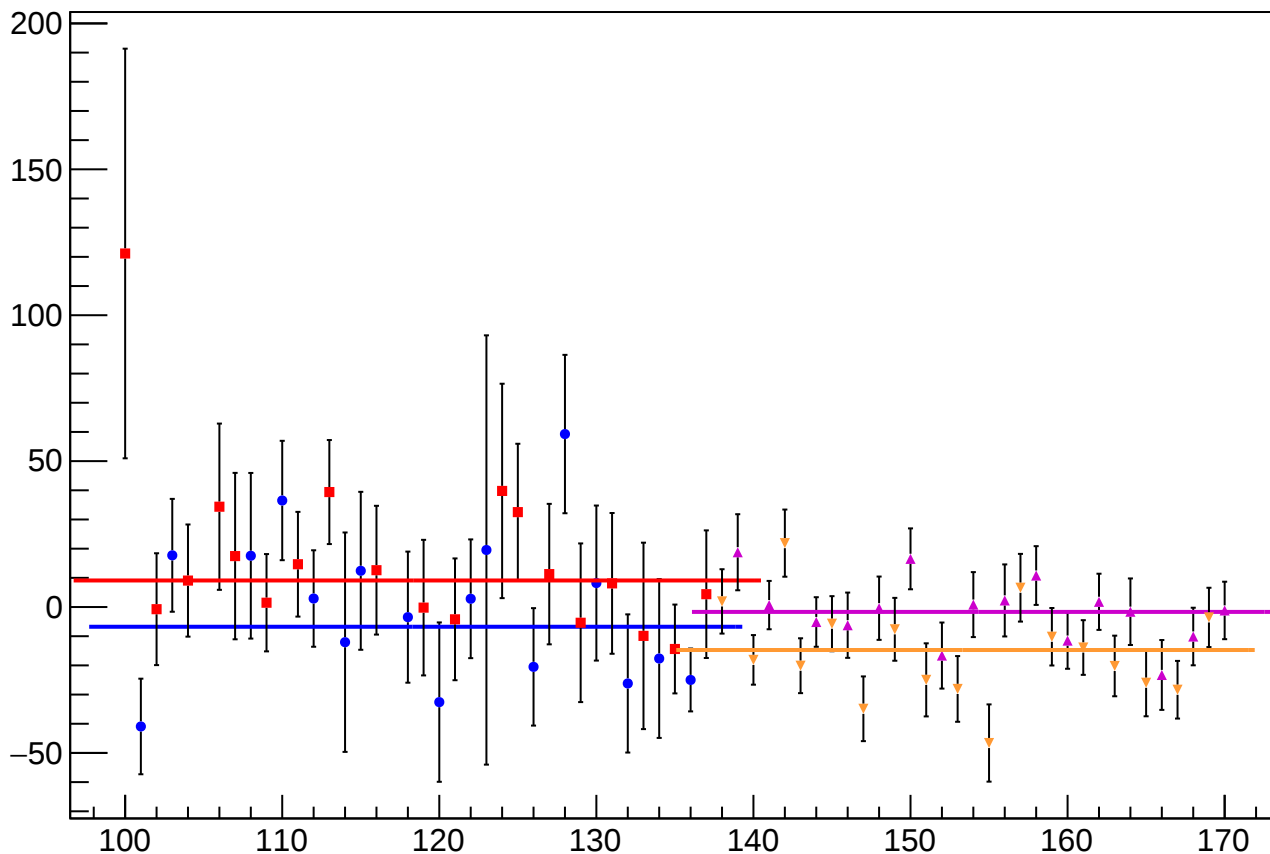
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7243.510+/-1.192 χ^2/NDF :1280000.0/32

Out: 7263.808+/-1.175 χ^2/NDF :1069828.2/35

All: 7253.804+/-0.837 χ^2/NDF : 2349975.2/68

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: -1.670 ± 2.590 χ^2/NDF : 14.5/15

Left: -8.321 ± 1.814 χ^2/NDF : 60.8/32

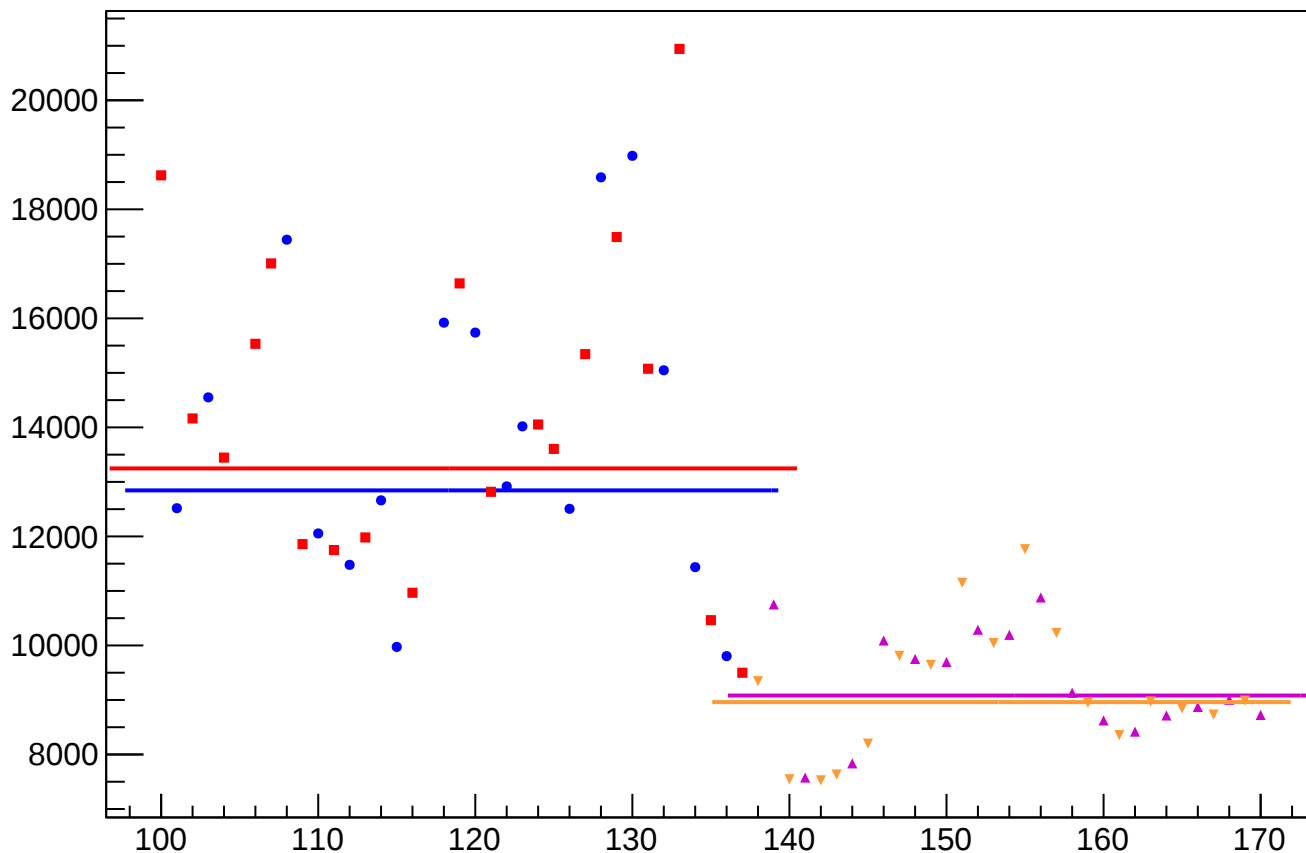
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -2.719 ± 2.308 χ^2/NDF : 39.0/32

Out: -9.941 ± 2.272 χ^2/NDF : 63.3/35

All: -6.386 ± 1.619 χ^2/NDF : 107.2/68

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12844.321+/-3.595 χ^2/NDF : 547271.0/16

Left Out: 8960.748+/-1.797 χ^2/NDF : 364741.2/16

Right Out: 13247.253+/-3.585 χ^2/NDF : 485481.6/18

Left In: 9081.285+/-1.831 χ^2/NDF : 277264.9/15

Left: 9019.884+/-1.283 χ^2/NDF : 644212.7/32

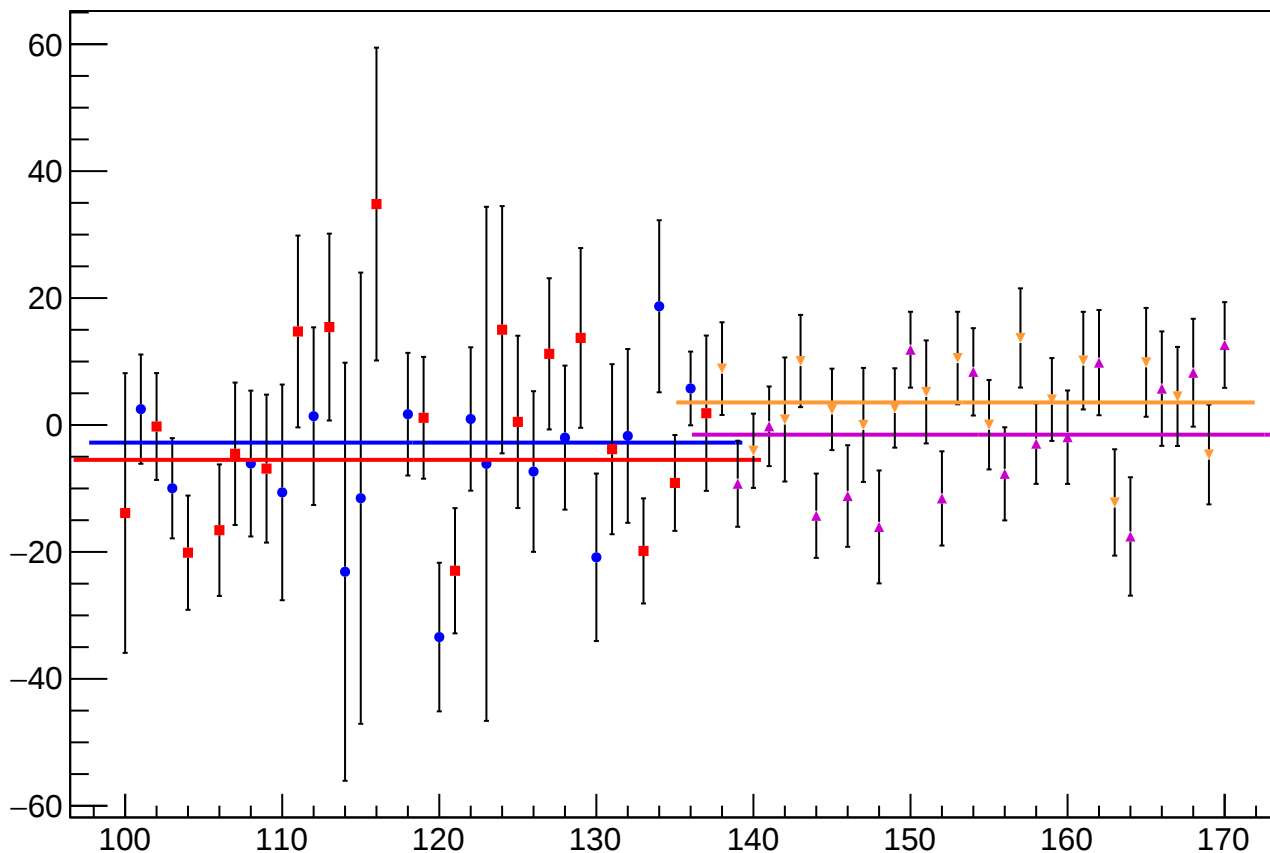
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 9856.503+/-1.632 χ^2/NDF : 1694281.6/32

Out: 9821.598+/-1.607 χ^2/NDF : 1992523.4/35

All: 9838.779+/-1.145 χ^2/NDF : 3687037.3/68

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 $\pm$ 2.732 χ^2/NDF : 15.9/16

Left Out: 3.552 $\pm$ 1.793 χ^2/NDF :12.1/16

Right Out: -5.491 $\pm$ 2.587 χ^2/NDF : 23.2/18

Left In: -1.521 $\pm$ 1.822 χ^2/NDF :30.0/15

Left: 1.055 $\pm$ 1.278 χ^2/NDF : 46.1/32

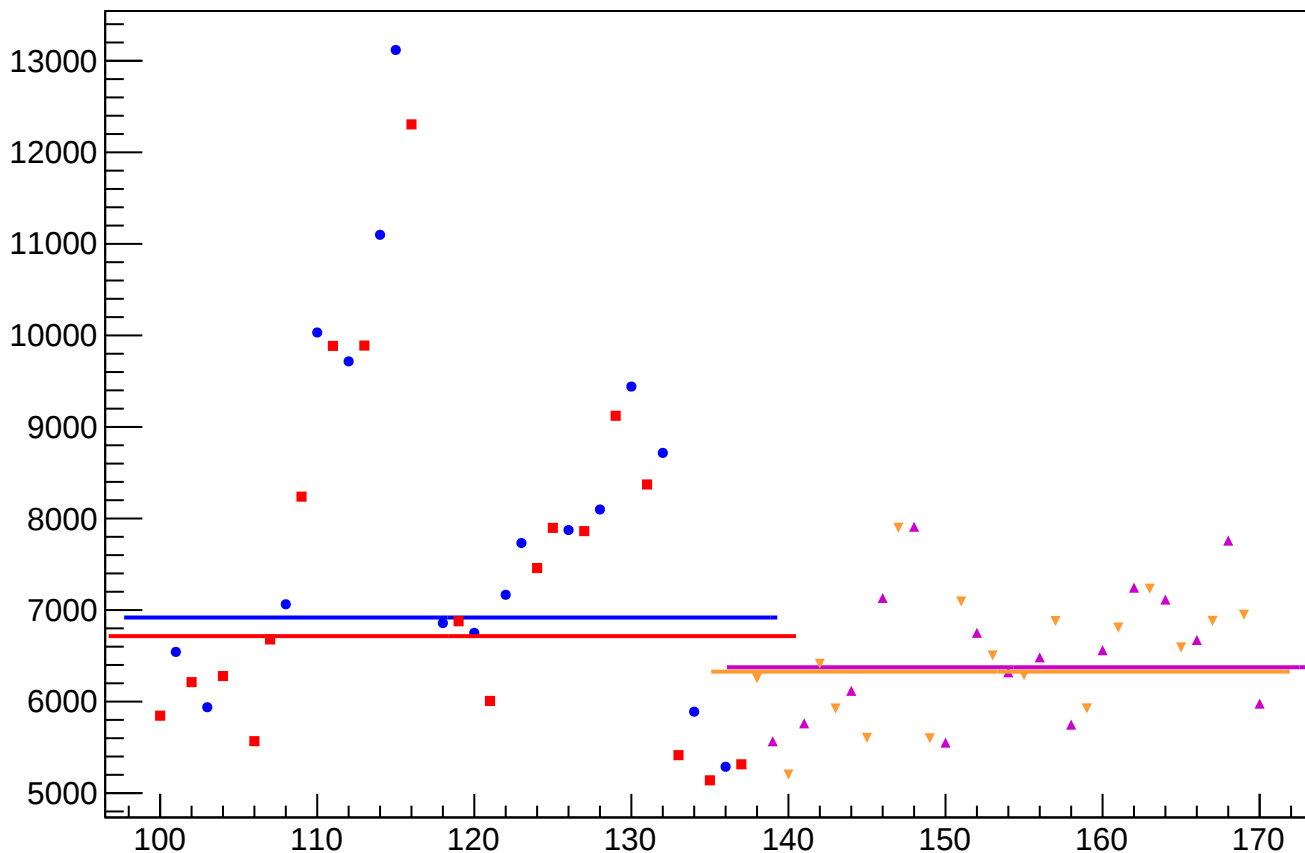
Right: -4.206 $\pm$ 1.879 χ^2/NDF : 39.6/35

In: -1.907 $\pm$ 1.515 χ^2/NDF :46.1/32

Out: 0.618 $\pm$ 1.474 χ^2/NDF :43.5/35

All: -0.609 $\pm$ 1.057 χ^2/NDF : 91.0/68

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: 6375.040 ± 1.288 $\chi^2/\text{NDF}: 289120.9/15$

Left: 6350.790 ± 0.904 $\chi^2/\text{NDF}: 576228.4/32$

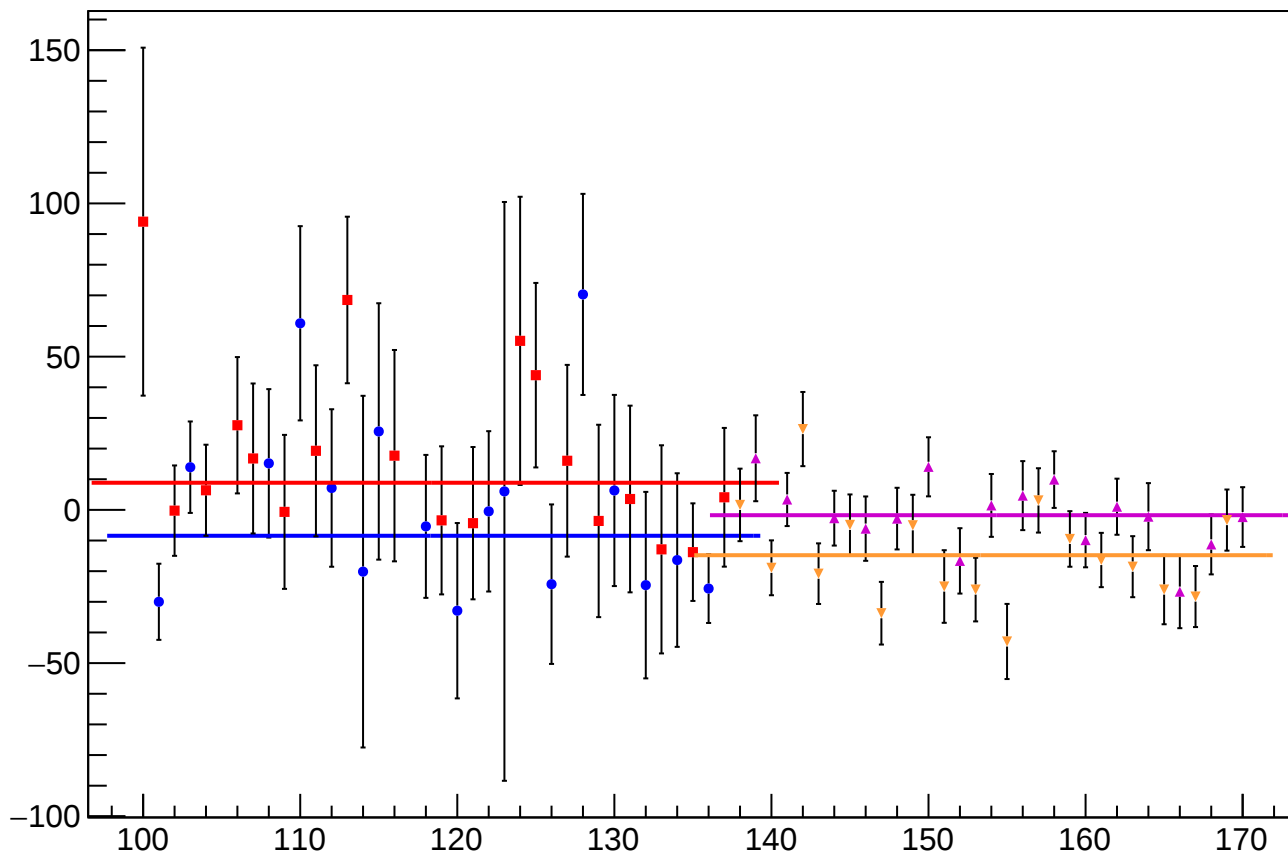
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6542.305 ± 1.072 $\chi^2/\text{NDF}: 930951.6/32$

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

All: 6496.461 ± 0.747 $\chi^2/\text{NDF}: 1907271.5/68$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 $\pm$ 5.393 χ^2/NDF : 22.0/16

Left Out: -14.790 $\pm$ 2.488 χ^2/NDF : 34.2/16

Right Out: 8.854 $\pm$ 5.508 χ^2/NDF : 14.2/18

Left In: -1.736 $\pm$ 2.504 χ^2/NDF : 15.2/15

Left: -8.304 $\pm$ 1.765 χ^2/NDF : 63.1/32

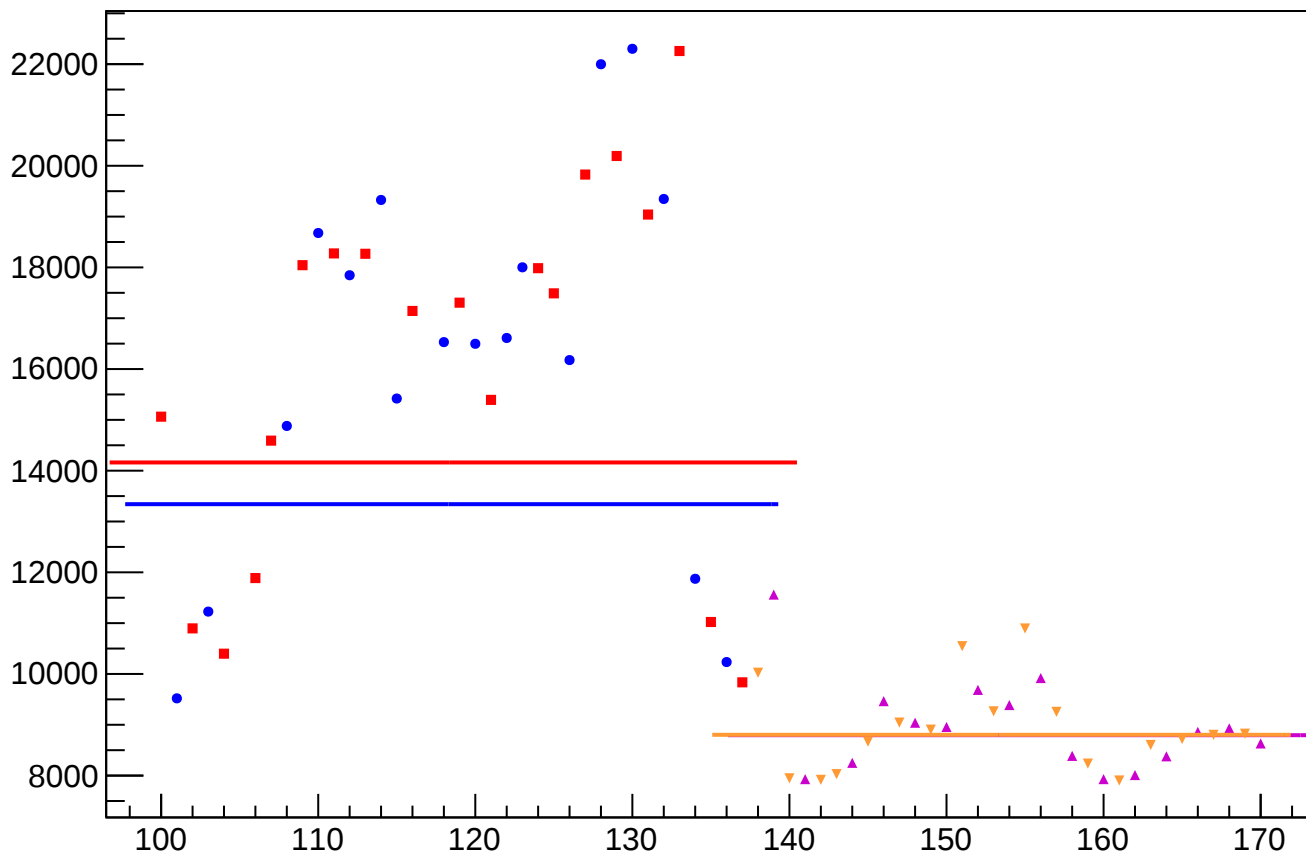
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

In: -2.927 $\pm$ 2.271 χ^2/NDF : 38.5/32

Out: -10.783 $\pm$ 2.268 χ^2/NDF : 63.7/35

All: -6.861 $\pm$ 1.605 χ^2/NDF : 108.2/68

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8802.784+/-1.759 χ^2/NDF : 202867.0/16

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

Left In: 8794.946+/-1.771 χ^2/NDF : 197115.3/15

Left: 8798.890+/-1.248 χ^2/NDF : 399992.1/32

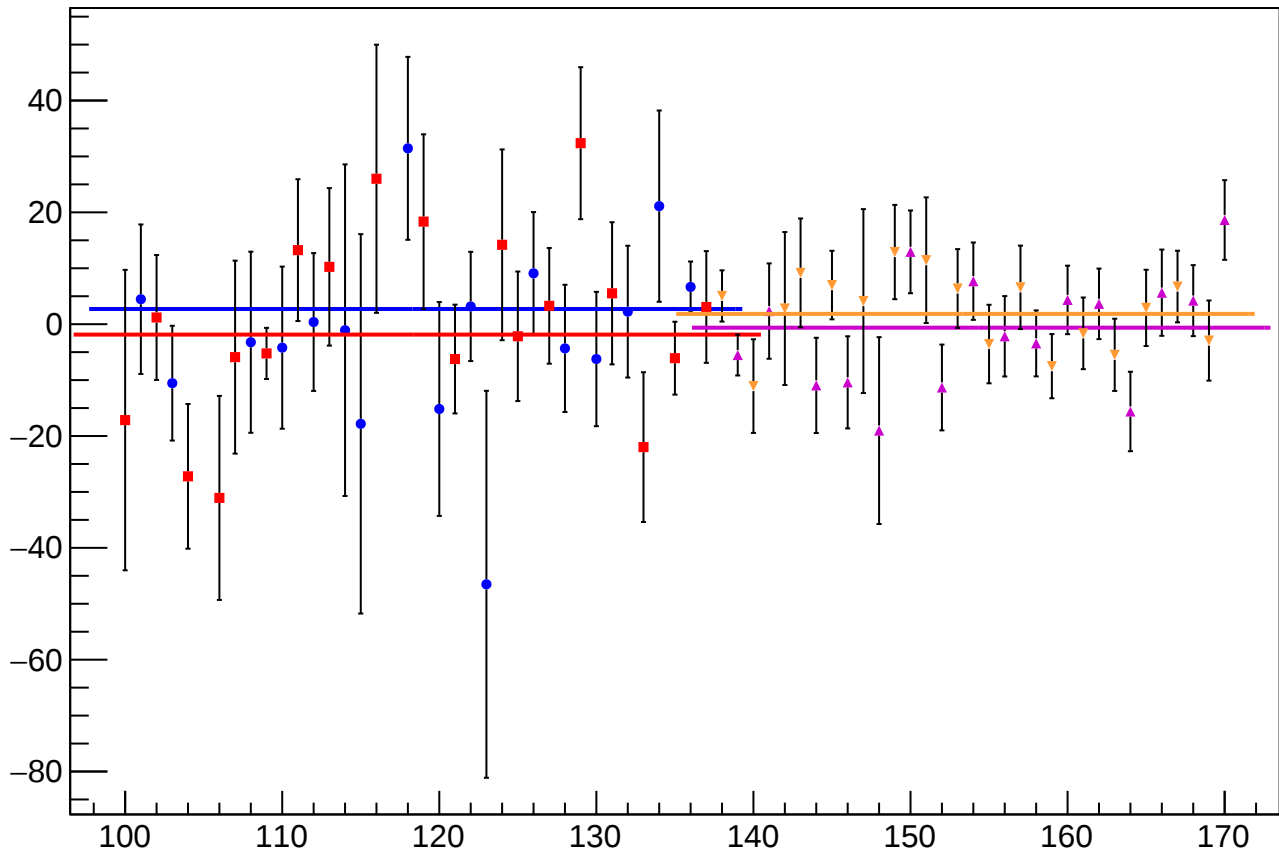
Right: 13742.695+/-2.725 χ^2/NDF : 1999035.6/35

In: 9601.179+/-1.606 χ^2/NDF : 2410796.7/32

Out: 9710.960+/-1.603 χ^2/NDF : 2706884.3/35

All: 9656.155+/-1.135 χ^2/NDF : 5120021.2/68

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 1.845 ± 1.734 $\chi^2/\text{NDF}: 13.3/16$

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

Left In: -0.628 ± 1.672 $\chi^2/\text{NDF}: 27.1/15$

Left: 0.563 ± 1.203 $\chi^2/\text{NDF}: 41.5/32$

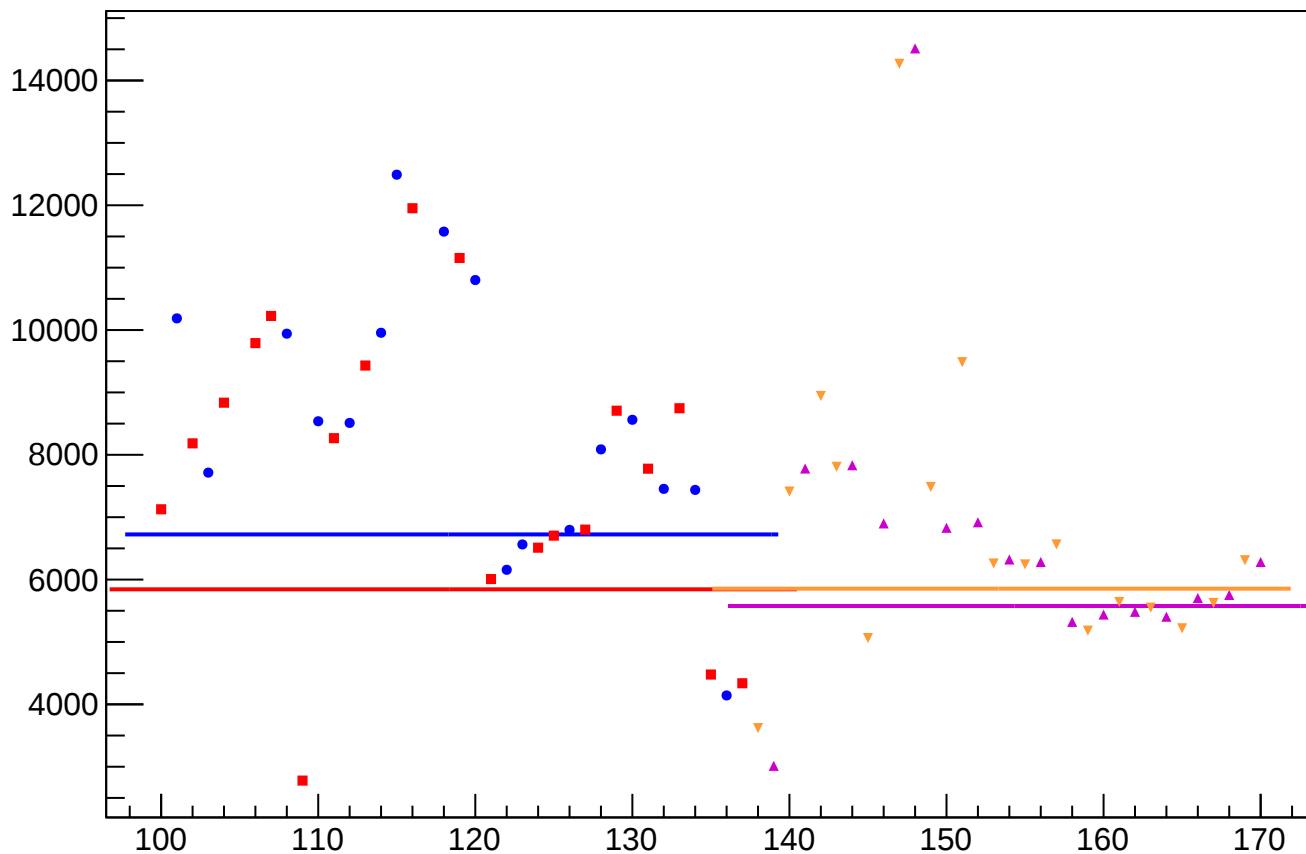
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: 0.273 ± 1.429 $\chi^2/\text{NDF}: 39.9/32$

Out: 0.601 ± 1.413 $\chi^2/\text{NDF}: 38.4/35$

All: 0.439 ± 1.005 $\chi^2/\text{NDF}: 78.3/68$

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: 5576.276+/-1.182 χ^2/NDF : 2069988.8/15

Left: 5710.214+/-0.851 χ^2/NDF : 3758240.9/32

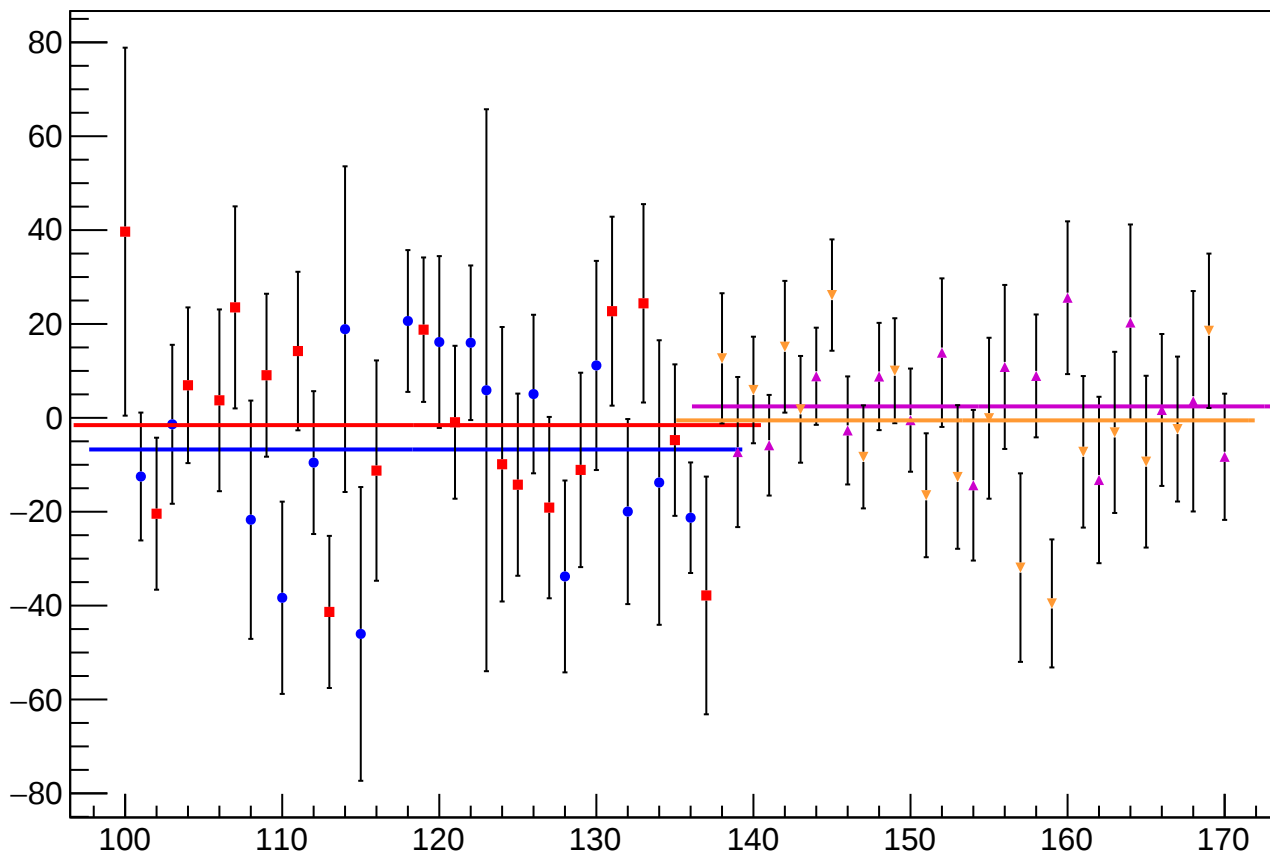
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5885.556+/-1.010 χ^2/NDF : 3716105.3/32

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

All: 5867.987+/-0.710 χ^2/NDF : 7655549.1/68

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 $\pm$ 4.513 χ^2/NDF : 16.9/16

Left Out: -0.539 $\pm$ 3.360 χ^2/NDF : 23.5/16

Right Out: -1.549 $\pm$ 4.372 χ^2/NDF : 20.0/18

Left In: 2.440 $\pm$ 3.475 χ^2/NDF : 8.2/15

Left: 0.901 $\pm$ 2.416 χ^2/NDF : 32.1/32

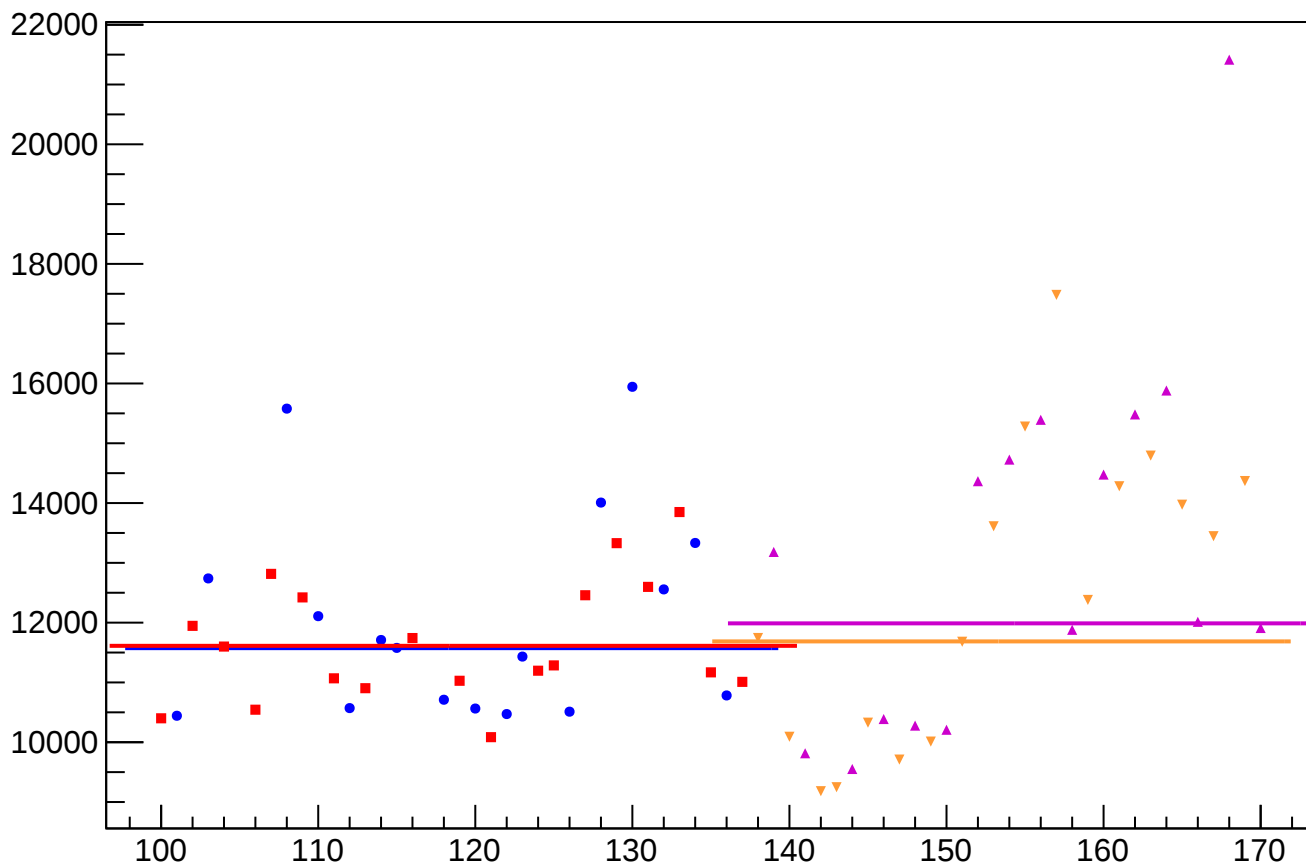
Right: -4.061 $\pm$ 3.140 χ^2/NDF : 37.5/35

In: -0.975 $\pm$ 2.753 χ^2/NDF : 27.7/32

Out: -0.914 $\pm$ 2.664 χ^2/NDF : 43.5/35

All: -0.944 $\pm$ 1.915 χ^2/NDF : 71.2/68

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: 11987.997+/-2.457 χ^2/NDF : 1035774.5/15

Left: 11832.068+/-1.708 χ^2/NDF : 1893578.8/32

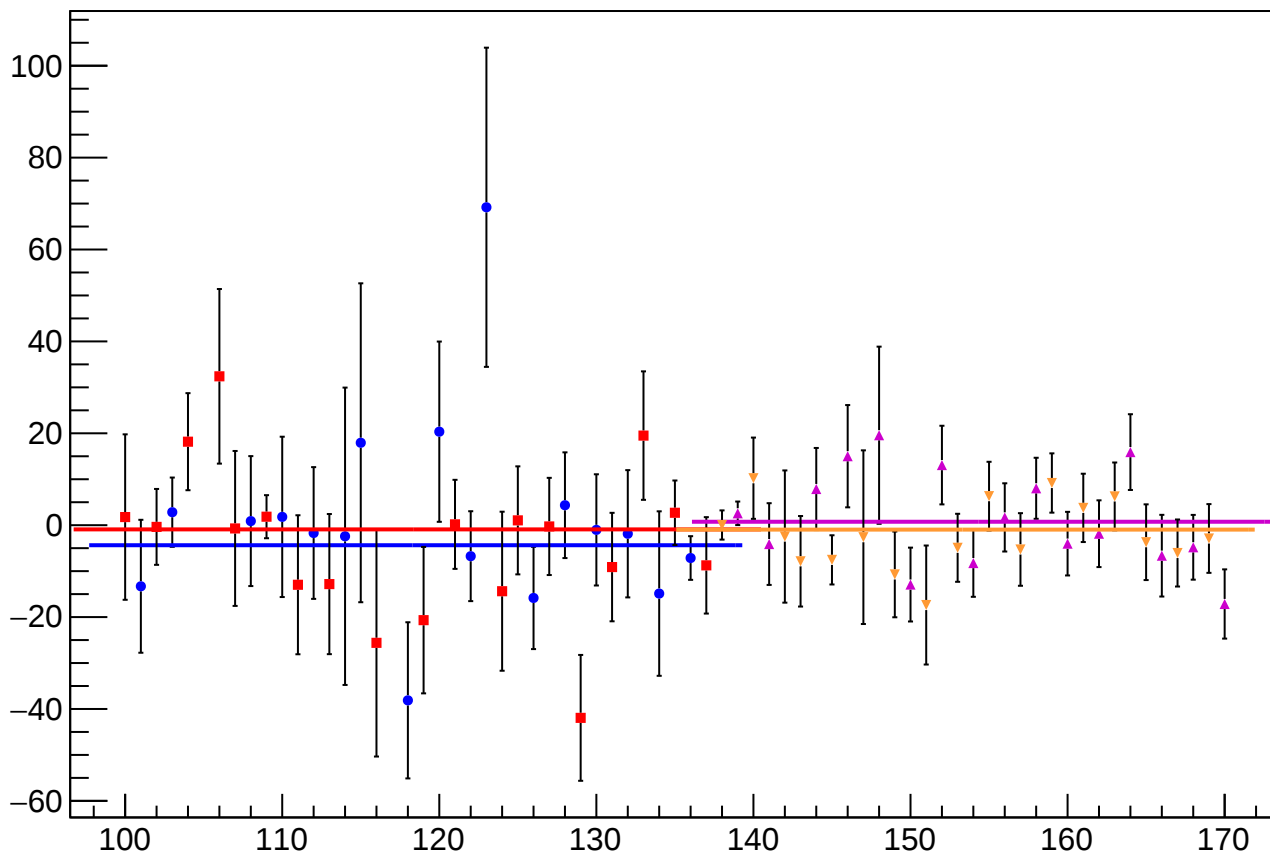
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11833.730+/-1.947 χ^2/NDF : 1285102.3/32

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

All: 11743.372+/-1.354 χ^2/NDF : 2233951.8/66

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 ± 2.776 $\chi^2/\text{NDF}: 14.5/16$

Left Out: -0.961 ± 1.700 $\chi^2/\text{NDF}: 12.5/16$

Right Out: -0.914 ± 2.426 $\chi^2/\text{NDF}: 23.5/18$

Left In: 0.749 ± 1.618 $\chi^2/\text{NDF}: 22.7/15$

Left: -0.064 ± 1.172 $\chi^2/\text{NDF}: 35.7/32$

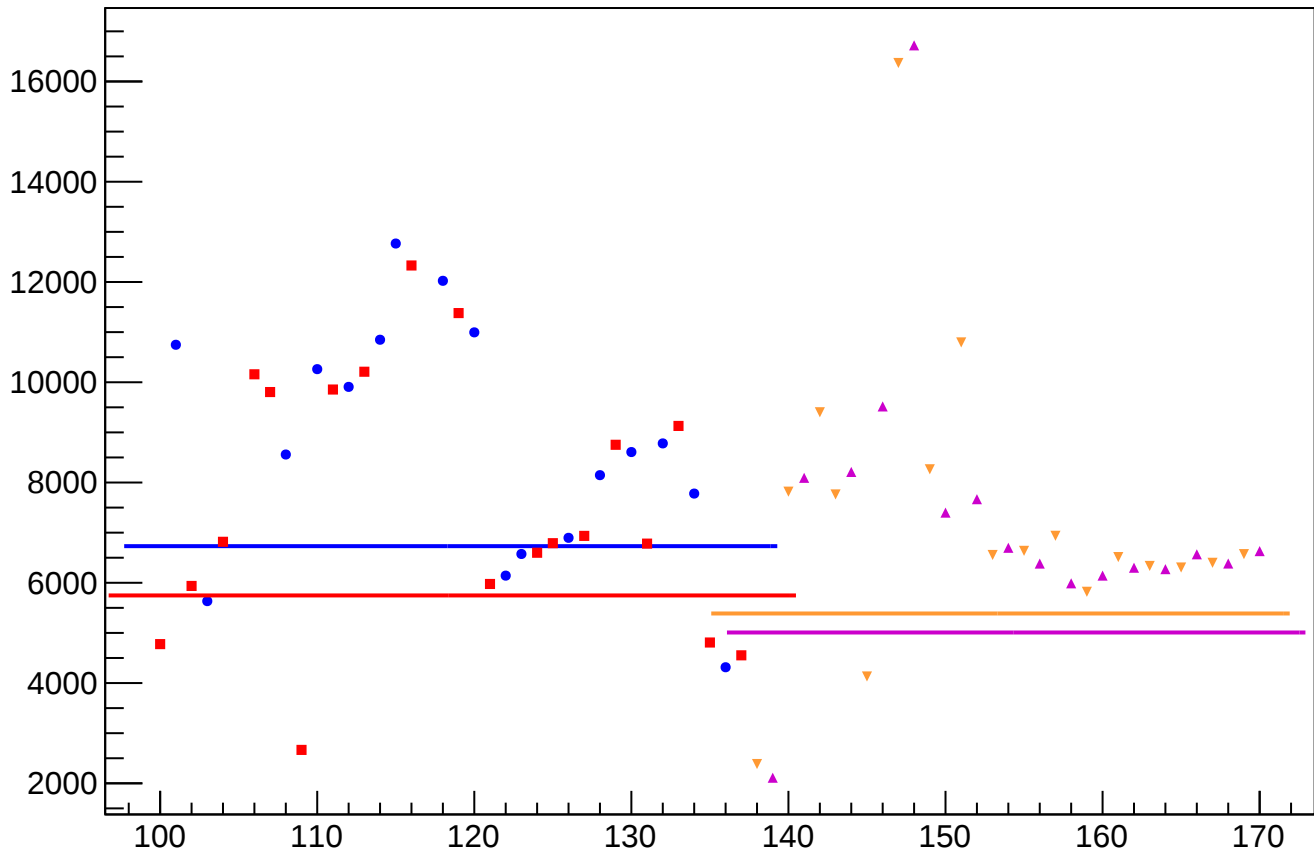
Right: -2.407 ± 1.827 $\chi^2/\text{NDF}: 38.9/35$

In: -0.547 ± 1.398 $\chi^2/\text{NDF}: 39.7/32$

Out: -0.946 ± 1.392 $\chi^2/\text{NDF}: 36.0/35$

All: -0.747 ± 0.987 $\chi^2/\text{NDF}: 75.8/68$

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: 5008.579+/-1.144 χ^2/NDF : 5105491.1/15

Left: 5188.837+/-0.829 χ^2/NDF : 9074416.6/32

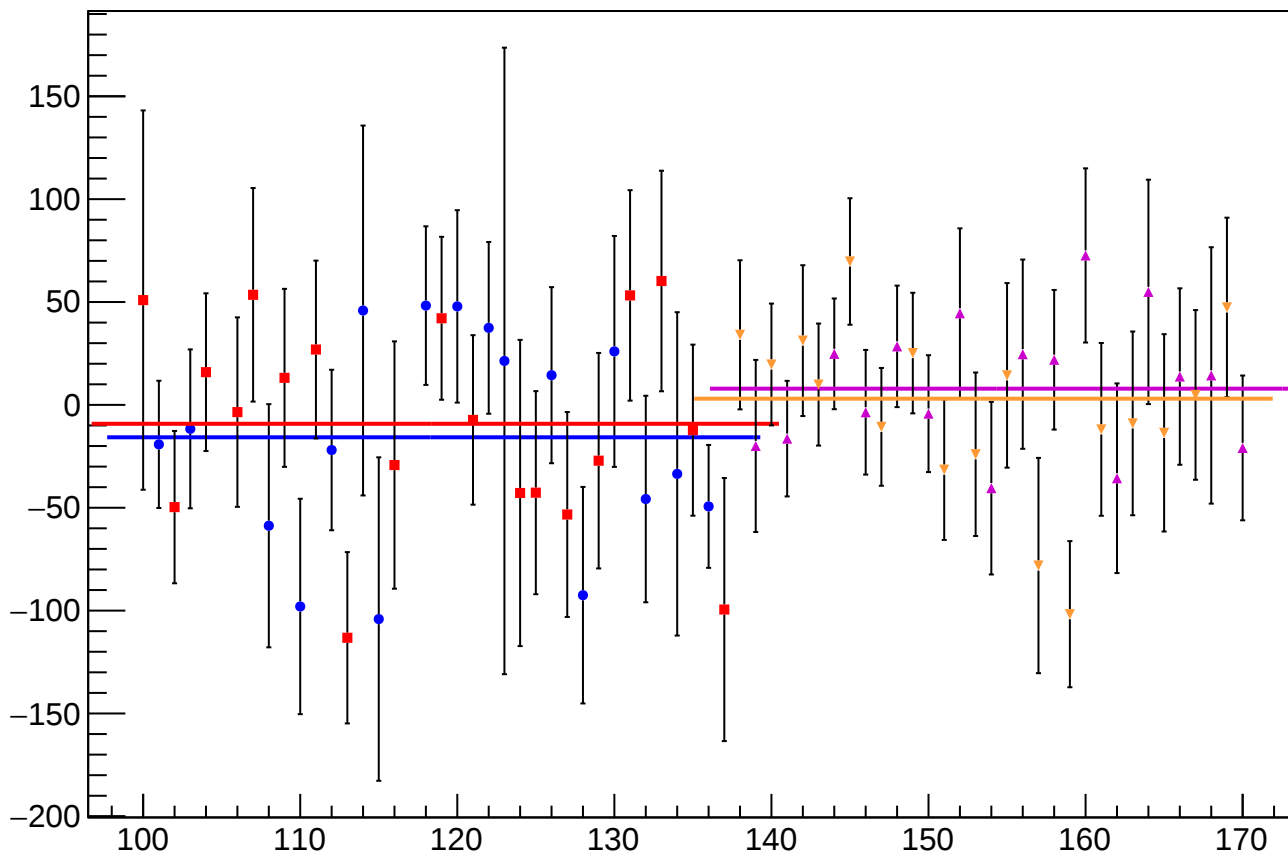
Right: 6173.310+/-1.292 χ^2/NDF : 3749669.1/35

In: 5445.361+/-0.989 χ^2/NDF : 7125116.7/32

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

All: 5475.912+/-0.698 χ^2/NDF : 13235530.2/6

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 ± 11.207 χ^2/NDF : 15.9/16

Left Out: 3.017 ± 8.775 χ^2/NDF : 21.2/16

Right Out: -9.179 ± 10.889 χ^2/NDF : 19.3/18

Left In: 7.879 ± 9.066 χ^2/NDF : 9.5/15

Left: 5.369 ± 6.305 χ^2/NDF : 30.8/32

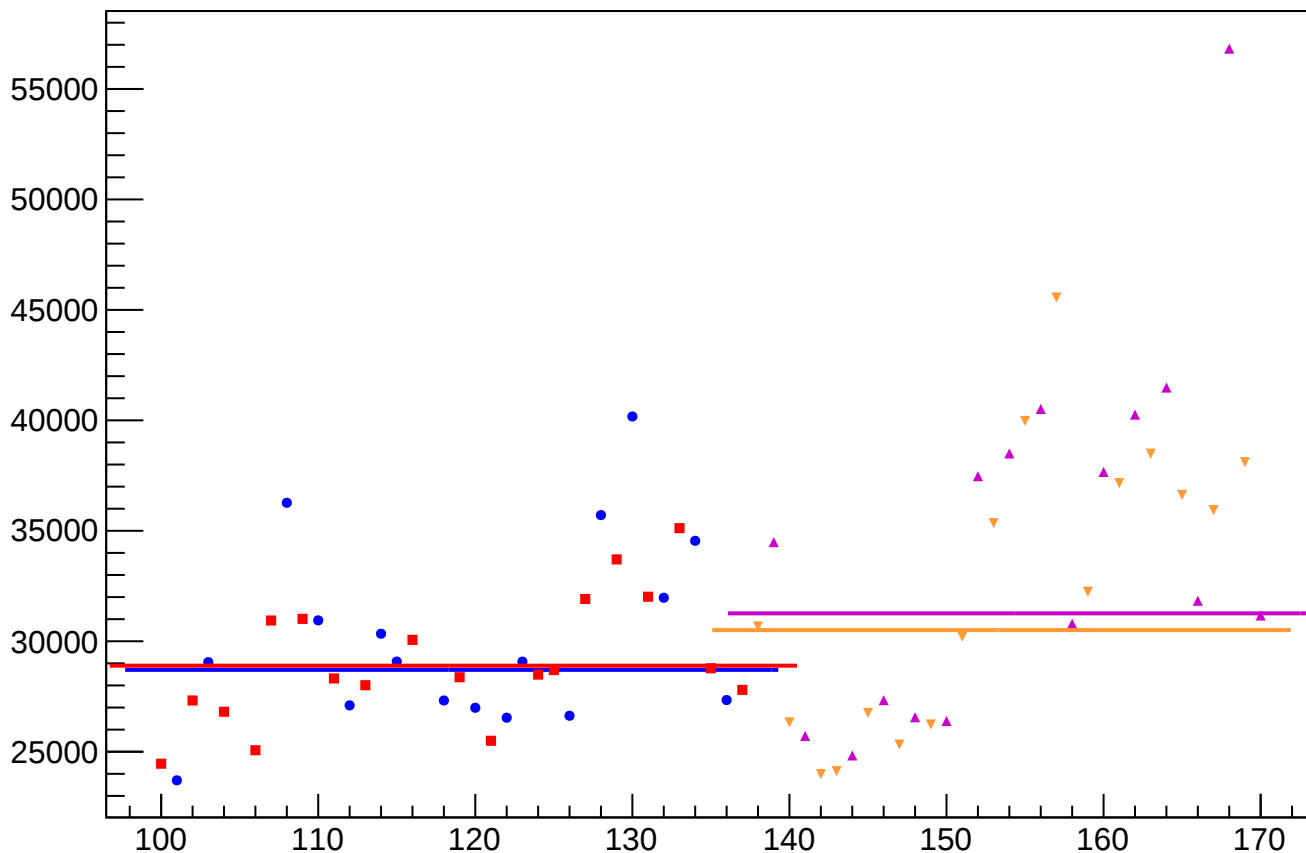
Right: -12.370 ± 7.810 χ^2/NDF : 35.4/35

In: -1.468 ± 7.049 χ^2/NDF : 28.1/32

Out: -1.785 ± 6.833 χ^2/NDF : 41.2/35

All: -1.631 ± 4.906 χ^2/NDF : 69.3/68

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569 ± 7.925

χ^2/NDF : 250992.5/16

Left: 30871.993 ± 4.459 χ^2/NDF : 1934501.1/32

Right: 28803.288 ± 5.522 χ^2/NDF : 362500.7/35

Left Out: 30505.542 ± 6.205

χ^2/NDF : 864683.3/16

In: 30251.482 ± 4.984 χ^2/NDF : 1376554.8/32

Right Out: 28895.535 ± 7.700

χ^2/NDF : 111212.6/18

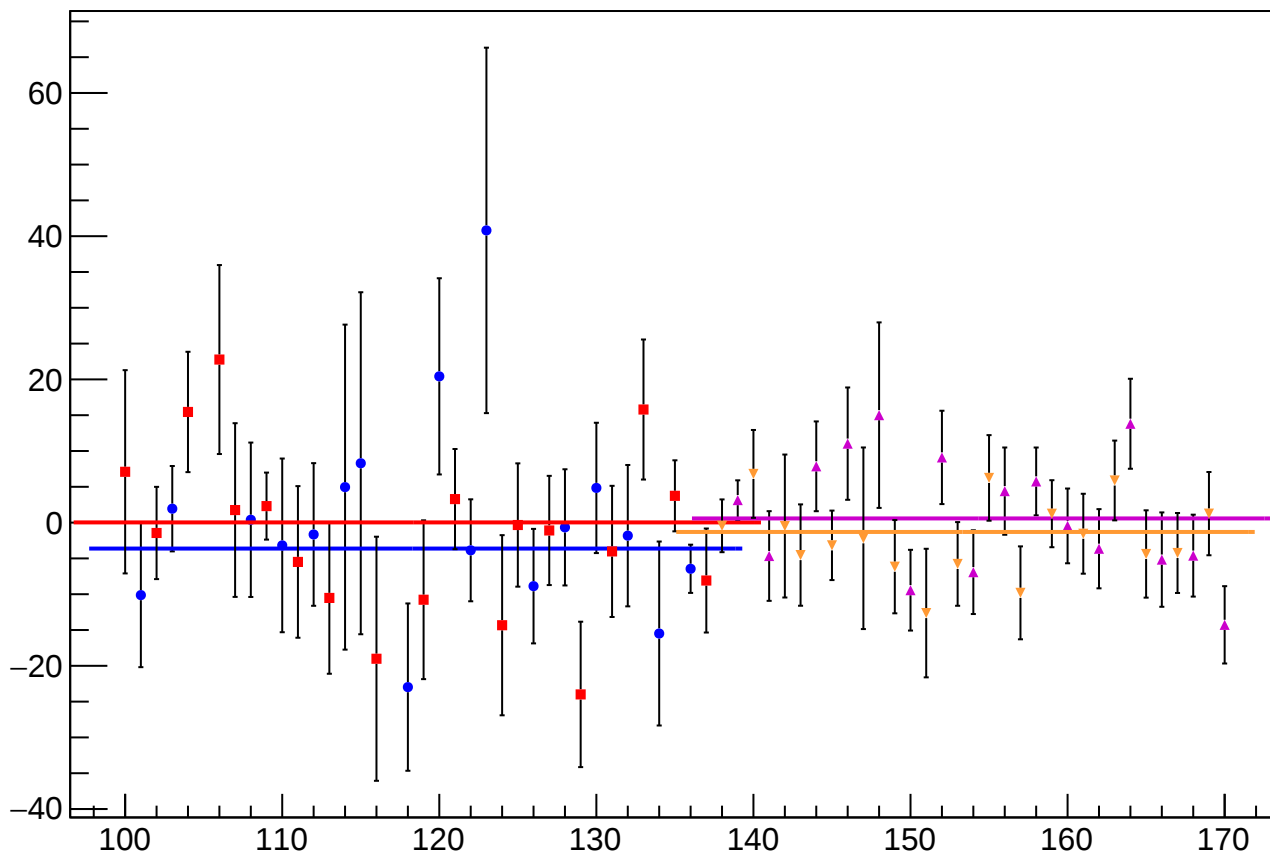
Out: 29871.629 ± 4.831 χ^2/NDF : 1002402.9/35

Left In: 31263.158 ± 6.411

χ^2/NDF : 1062607.3/15

All: 30055.646 ± 3.469 χ^2/NDF : 2381952.1/6

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: 0.582±/1.357 χ^2/NDF : 28.2/15

Left: -0.318±/0.982 χ^2/NDF : 40.1/32

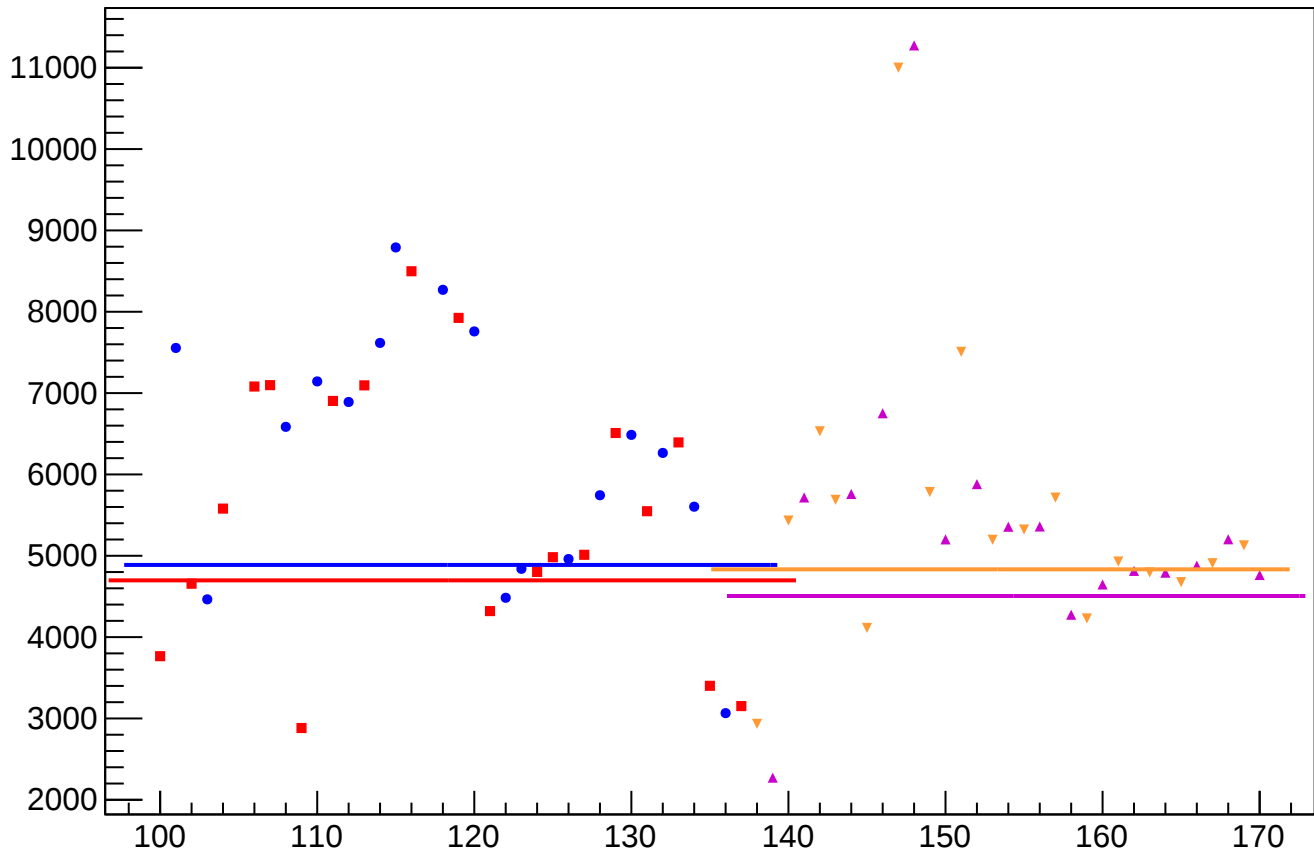
Right: -1.690±/1.376 χ^2/NDF : 37.6/35

In: -0.739±/1.124 χ^2/NDF : 45.0/32

Out: -0.824±/1.136 χ^2/NDF : 33.3/35

All: -0.781±/0.799 χ^2/NDF : 78.3/68

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: 4505.642 $\pm$ 0.960 χ^2 /NDF:2431637.1/15

Left: 4661.836 $\pm$ 0.694 χ^2 /NDF: 3960922.3/32

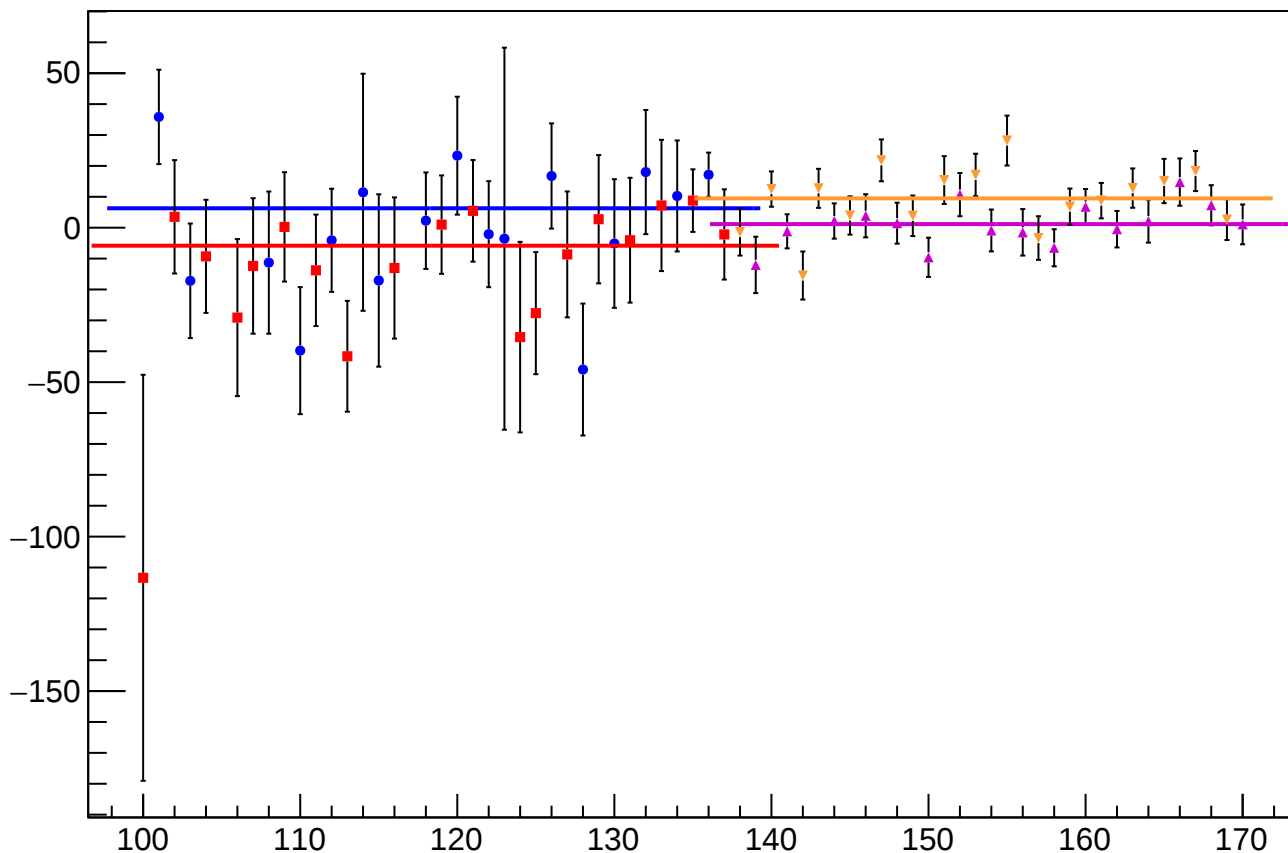
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

In: 4625.589 $\pm$ 0.795 χ^2 /NDF:3890646.2/32

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

All: 4704.076 $\pm$ 0.565 χ^2 /NDF: 6703787.9/68

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 9.487 $\pm$ 1.613 χ^2 /NDF:32.3/16

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

Left In: 1.159 $\pm$ 1.631 χ^2 /NDF:14.1/15

Left: 5.370 $\pm$ 1.147 χ^2 /NDF: 59.6/32

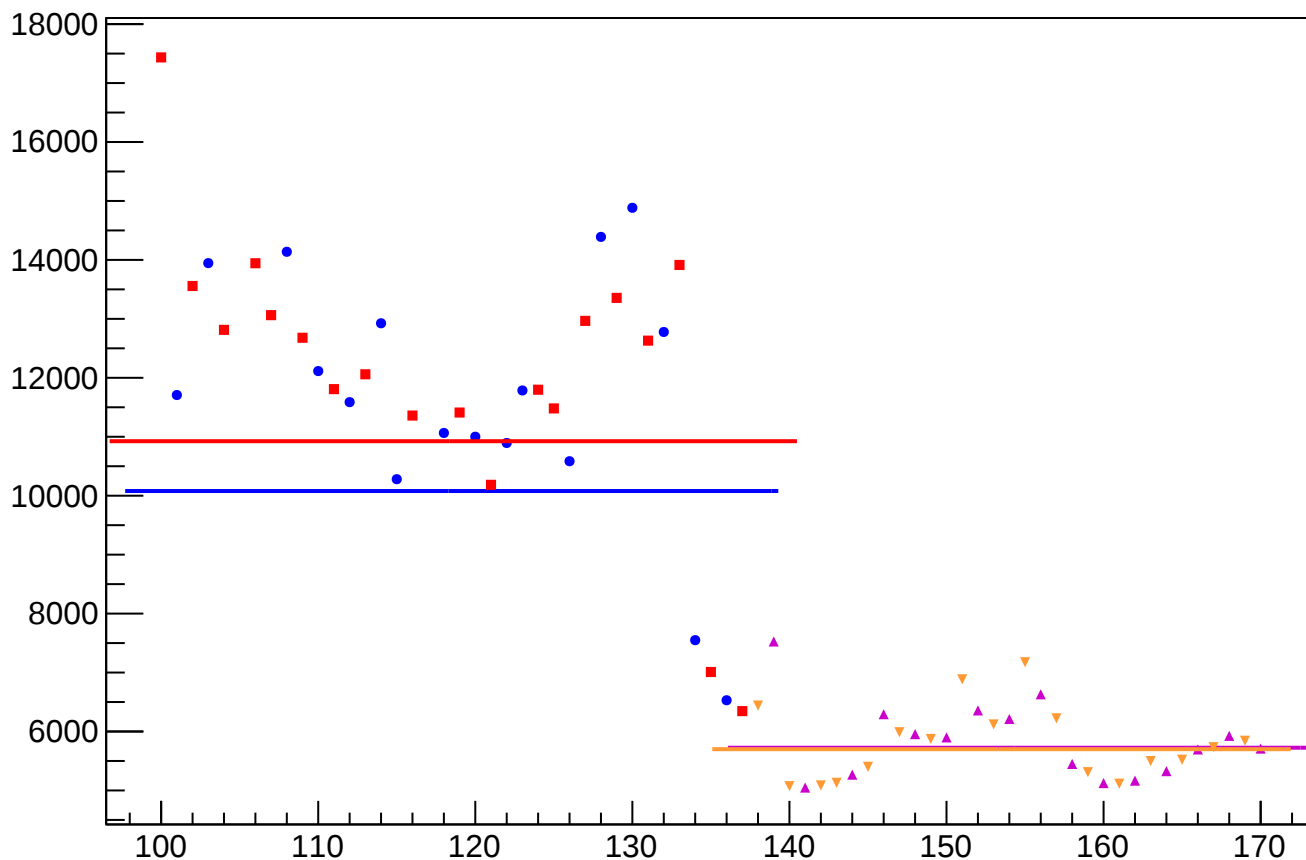
Right: 0.454 $\pm$ 2.927 χ^2 /NDF: 40.6/35

In: 1.870 $\pm$ 1.514 χ^2 /NDF:38.0/32

Out: 7.534 $\pm$ 1.507 χ^2 /NDF:57.6/35

All: 4.716 $\pm$ 1.068 χ^2 /NDF: 102.7/68

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: 5725.005 $\pm$ 1.154 χ^2/NDF : 246162.1/15

Left: 5712.287 $\pm$ 0.811 χ^2/NDF : 494029.4/32

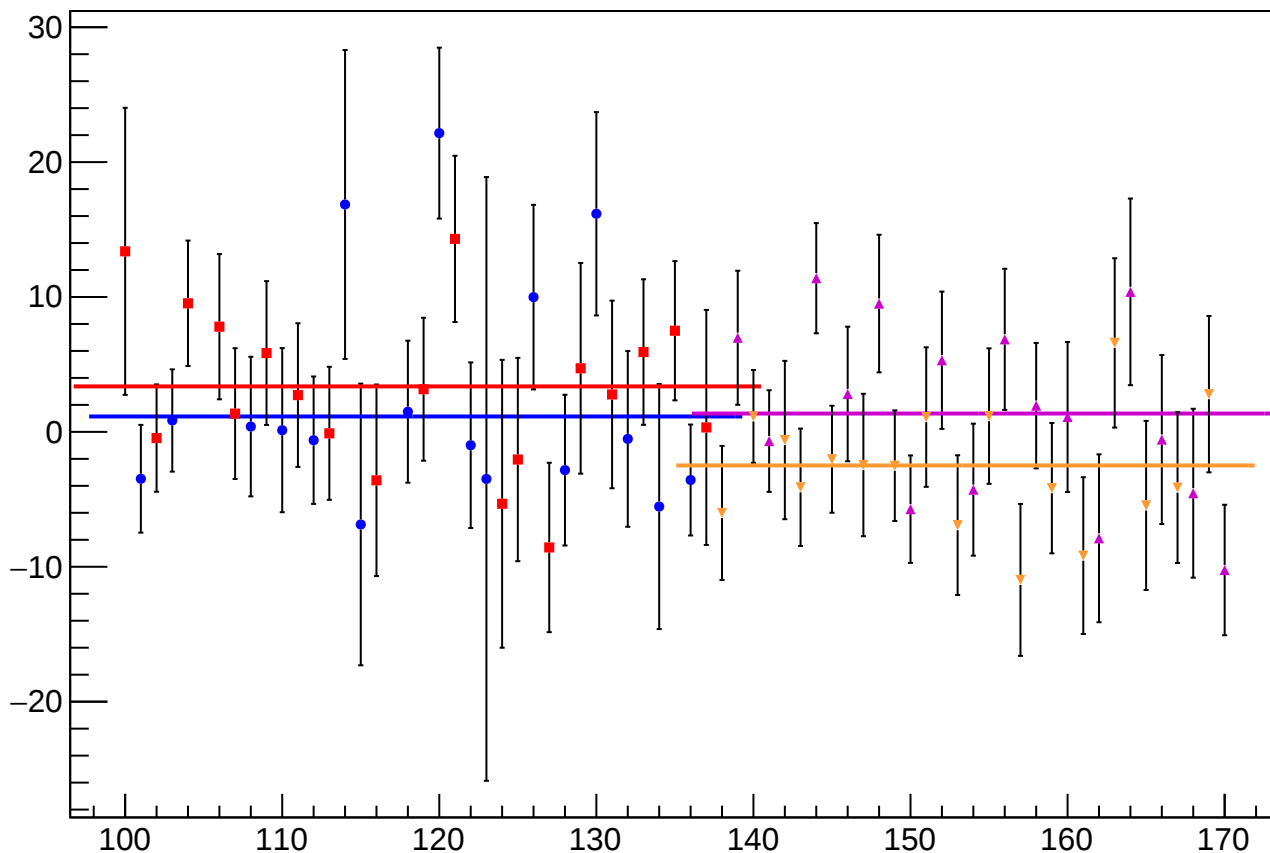
Right: 10486.193 $\pm$ 2.070 χ^2/NDF : 1804751.7/35

In: 6329.347 $\pm$ 1.071 χ^2/NDF : 3218142.7/32

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

All: 6347.832 $\pm$ 0.755 χ^2/NDF : 6910687.8/68

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.489 ± 1.198 $\chi^2/\text{NDF}: 10.6/16$

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

Left In: 1.361 ± 1.242 $\chi^2/\text{NDF}: 27.1/15$

Left: -0.633 ± 0.862 $\chi^2/\text{NDF}: 42.7/32$

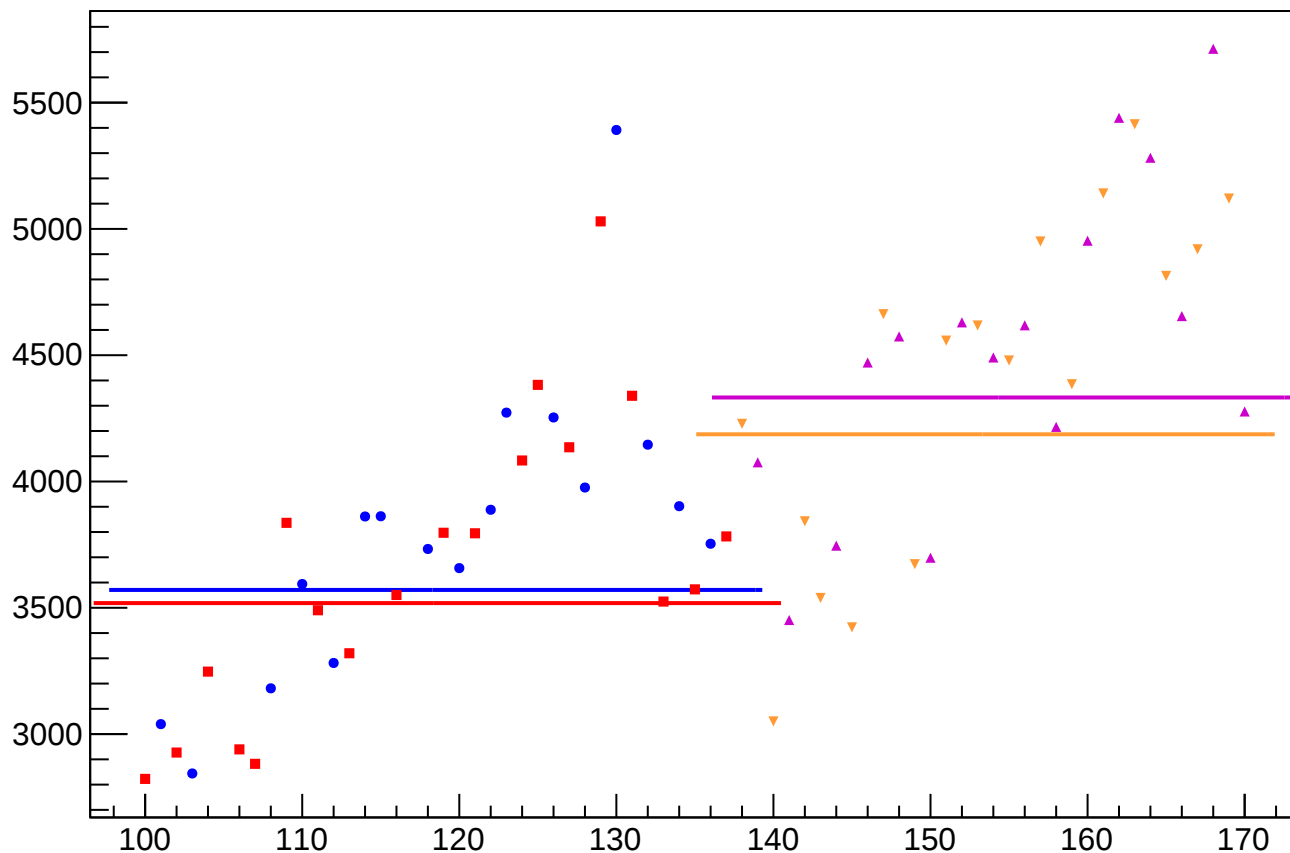
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.264 ± 0.928 $\chi^2/\text{NDF}: 50.4/32$

Out: 0.130 ± 0.891 $\chi^2/\text{NDF}: 36.3/35$

All: 0.674 ± 0.643 $\chi^2/\text{NDF}: 87.5/68$

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: 4332.630+/-0.878 χ^2/NDF : 457614.3/15

Left: 4257.172+/-0.610 χ^2/NDF : 1171092.3/32

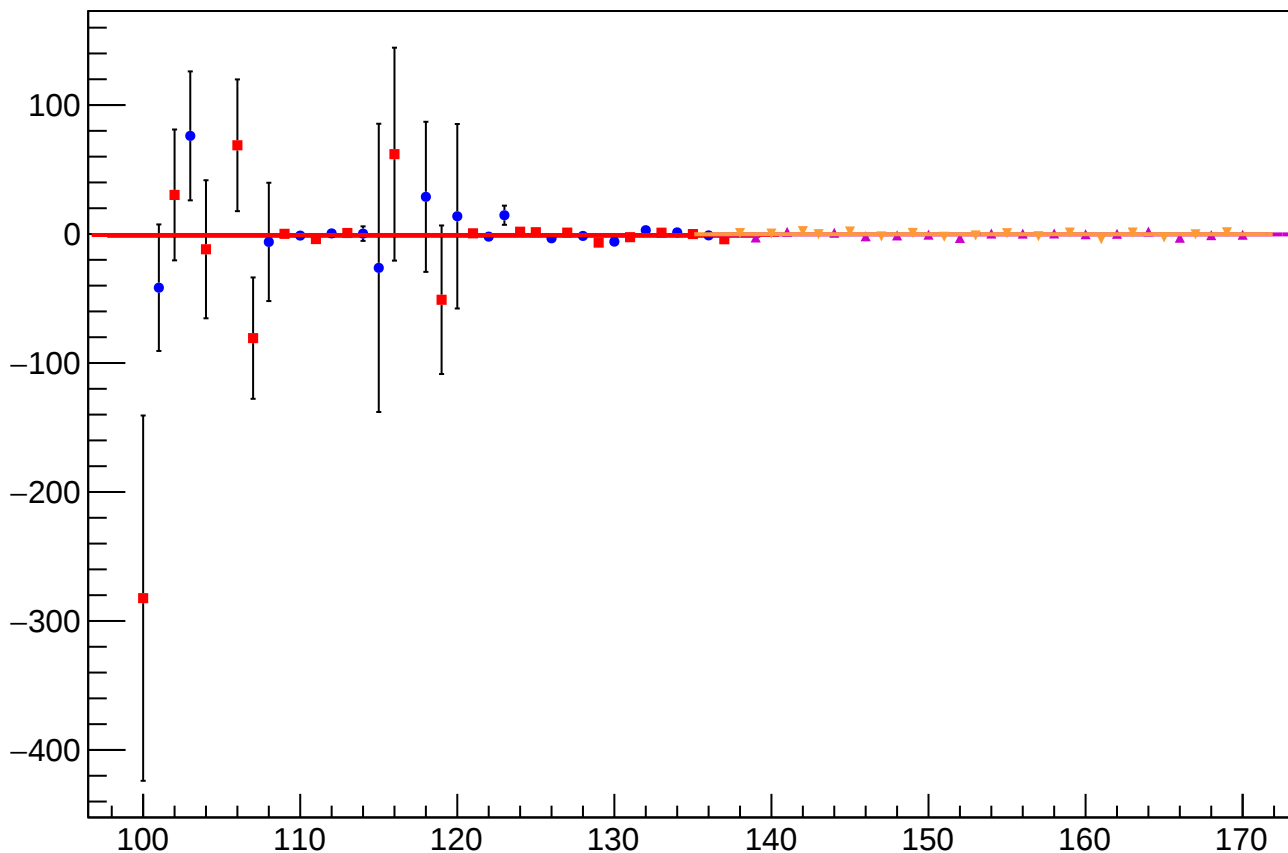
Right: 3543.480+/-0.682 χ^2/NDF : 604252.9/35

In: 3995.885+/-0.656 χ^2/NDF : 1100023.3/32

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

All: 3939.951+/-0.454 χ^2/NDF : 2384483.8/68

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: -0.290 ± 0.300 χ^2/NDF : 22.2/15

Left: -0.227 ± 0.211 χ^2/NDF : 54.0/32

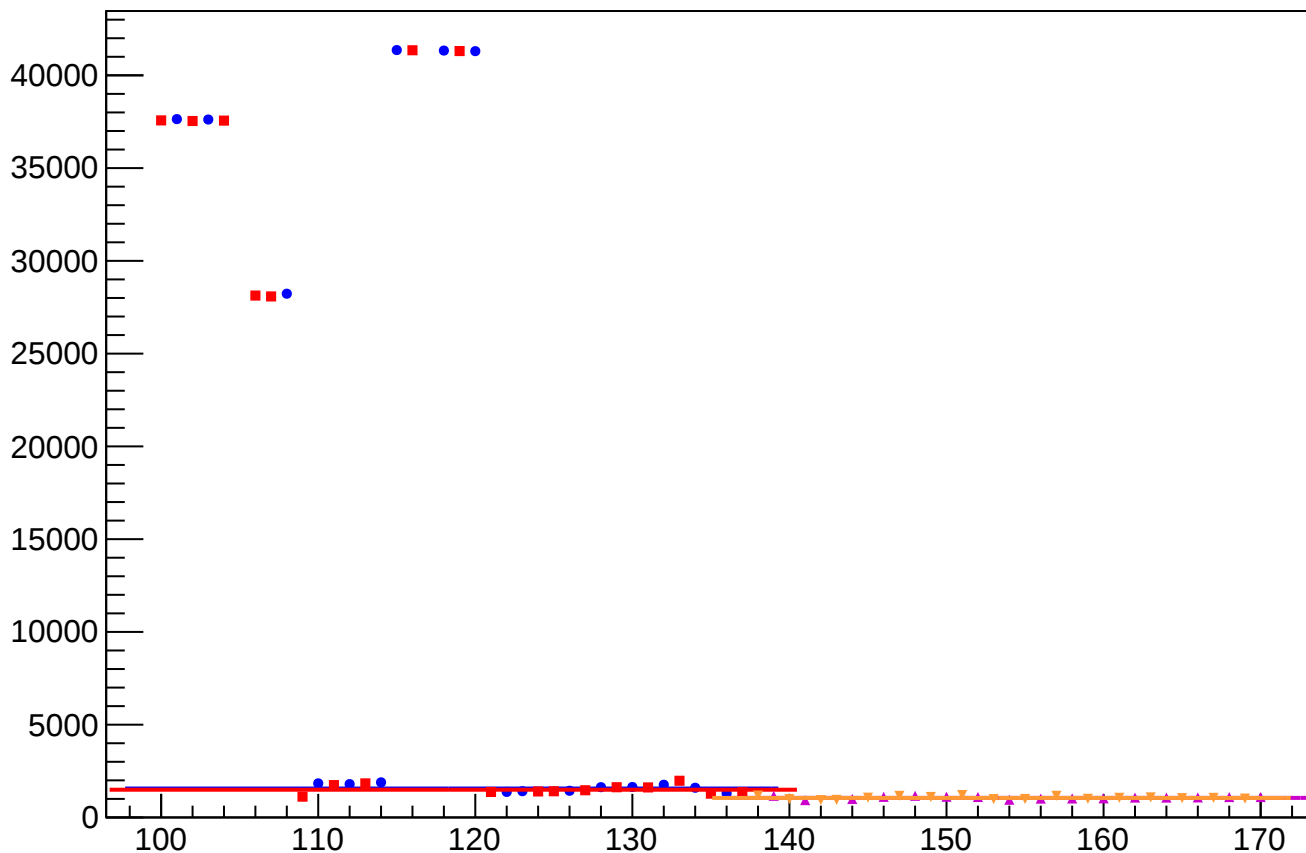
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.425 ± 0.278 χ^2/NDF : 40.0/32

Out: -0.249 ± 0.274 χ^2/NDF : 54.3/35

All: -0.335 ± 0.195 χ^2/NDF : 94.4/68

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: 1054.553 $\pm$ 0.212 χ^2 /NDF:104925.1/15

Left: 1053.213 $\pm$ 0.149 χ^2 /NDF: 236649.8/32

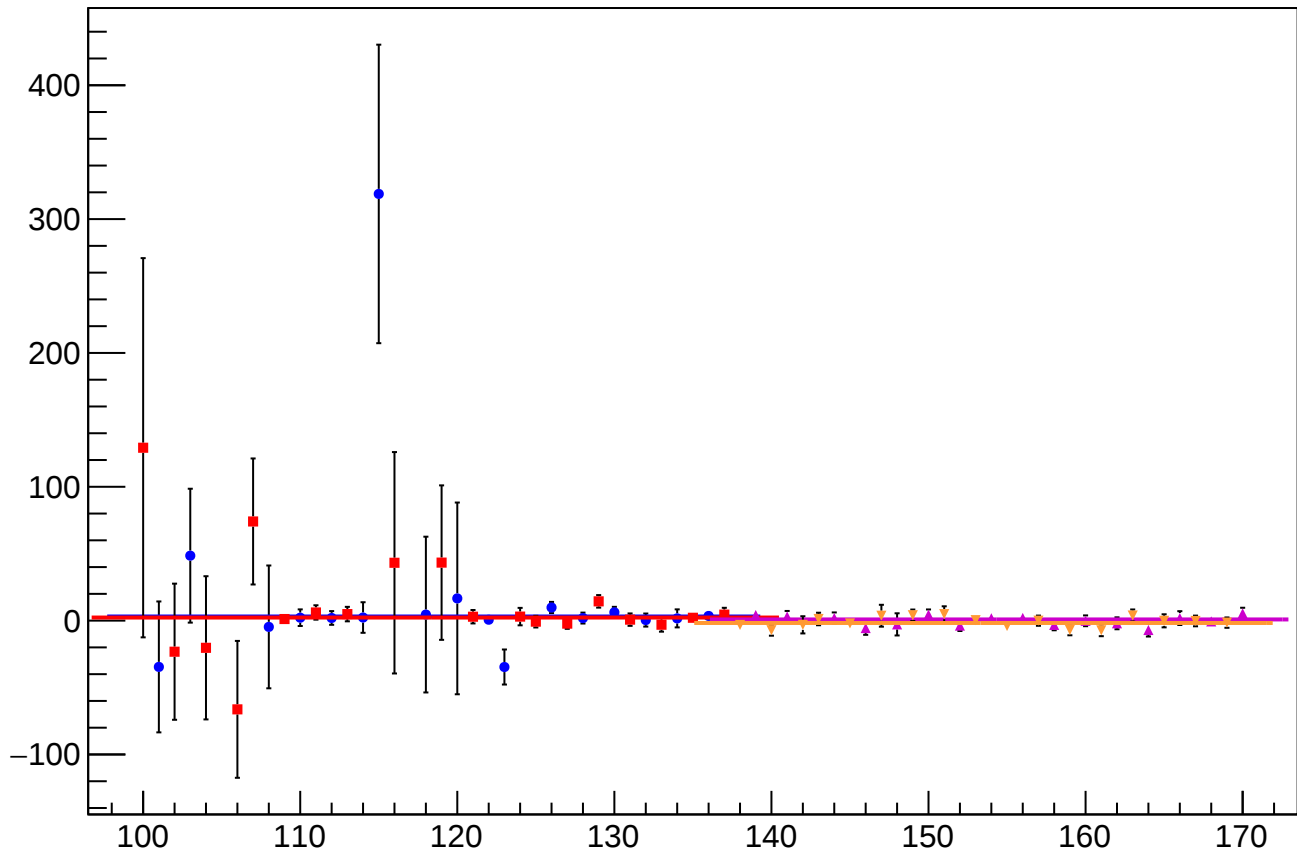
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1124.369 $\pm$ 0.197 χ^2 /NDF:5642574.1/32

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

All: 1120.947 $\pm$ 0.138 χ^2 /NDF: 11329348.8/6

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -1.753 ± 0.973 $\chi^2/\text{NDF}: 12.1/16$

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

Left In: 0.881 ± 0.992 $\chi^2/\text{NDF}: 12.0/15$

Left: -0.462 ± 0.694 $\chi^2/\text{NDF}: 27.6/32$

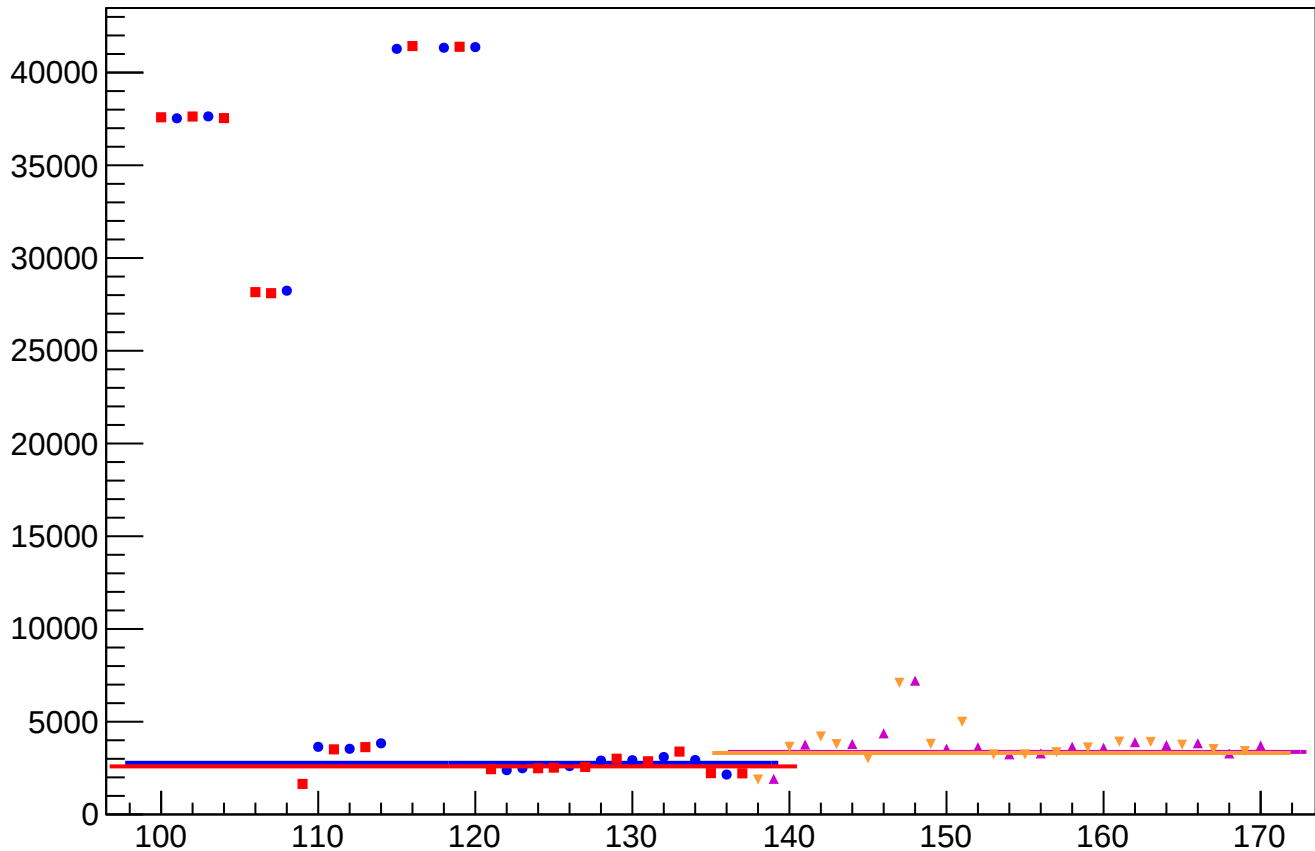
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.670 ± 0.794 $\chi^2/\text{NDF}: 35.6/32$

Out: -0.198 ± 0.764 $\chi^2/\text{NDF}: 35.7/35$

All: 0.700 ± 0.550 $\chi^2/\text{NDF}: 74.2/68$

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: 3371.907+/-0.701 χ^2/NDF : 1402986.8/15

Left: 3343.174+/-0.491 χ^2/NDF : 3024339.8/32

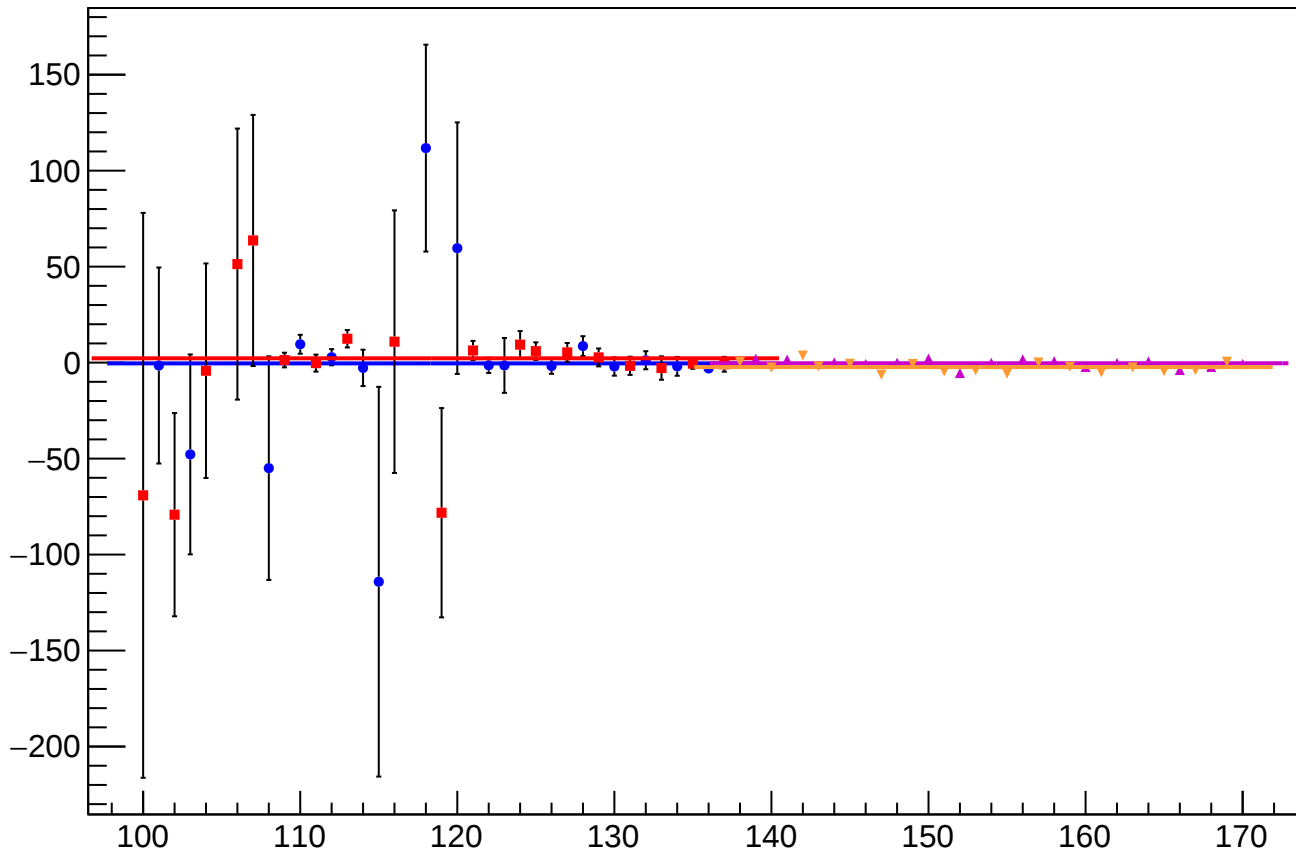
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3160.391+/-0.561 χ^2/NDF : 6233186.4/32

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

All: 3096.914+/-0.389 χ^2/NDF : 13147467.2/6

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: -0.335 ± 0.473 χ^2/NDF : 17.2/15

Left: -1.344 ± 0.333 χ^2/NDF : 53.1/32

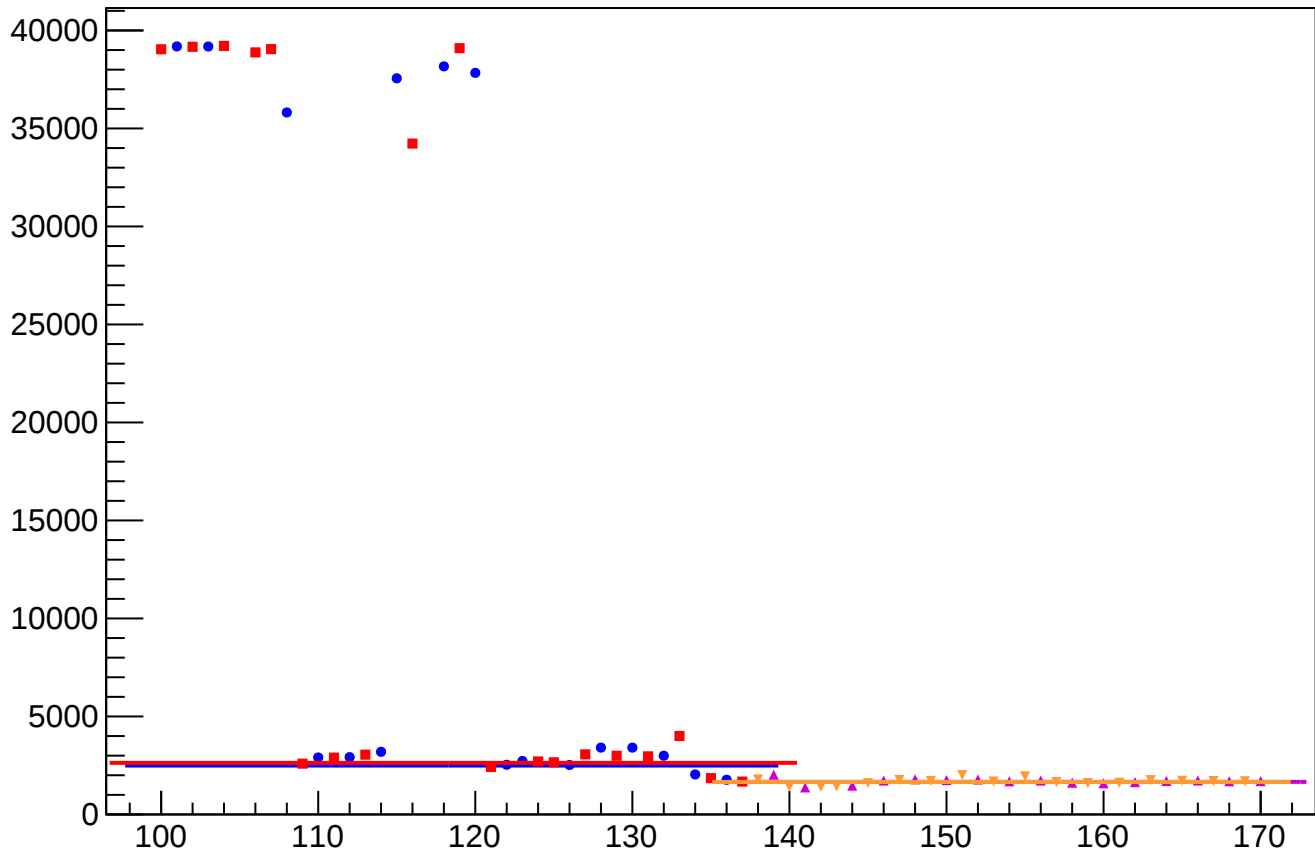
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.344 ± 0.441 χ^2/NDF : 35.5/32

Out: -1.765 ± 0.438 χ^2/NDF : 56.1/35

All: -1.059 ± 0.311 χ^2/NDF : 96.9/68

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603 ± 0.861 $\chi^2/\text{NDF}: 4882334.6/16$

Left Out: 1656.694 ± 0.331 $\chi^2/\text{NDF}: 213035.0/16$

Right Out: 2633.244 ± 0.881 $\chi^2/\text{NDF}: 4860512.6/18$

Left In: 1662.400 ± 0.335 $\chi^2/\text{NDF}: 178188.0/15$

Left: 1659.516 ± 0.235 $\chi^2/\text{NDF}: 391370.0/32$

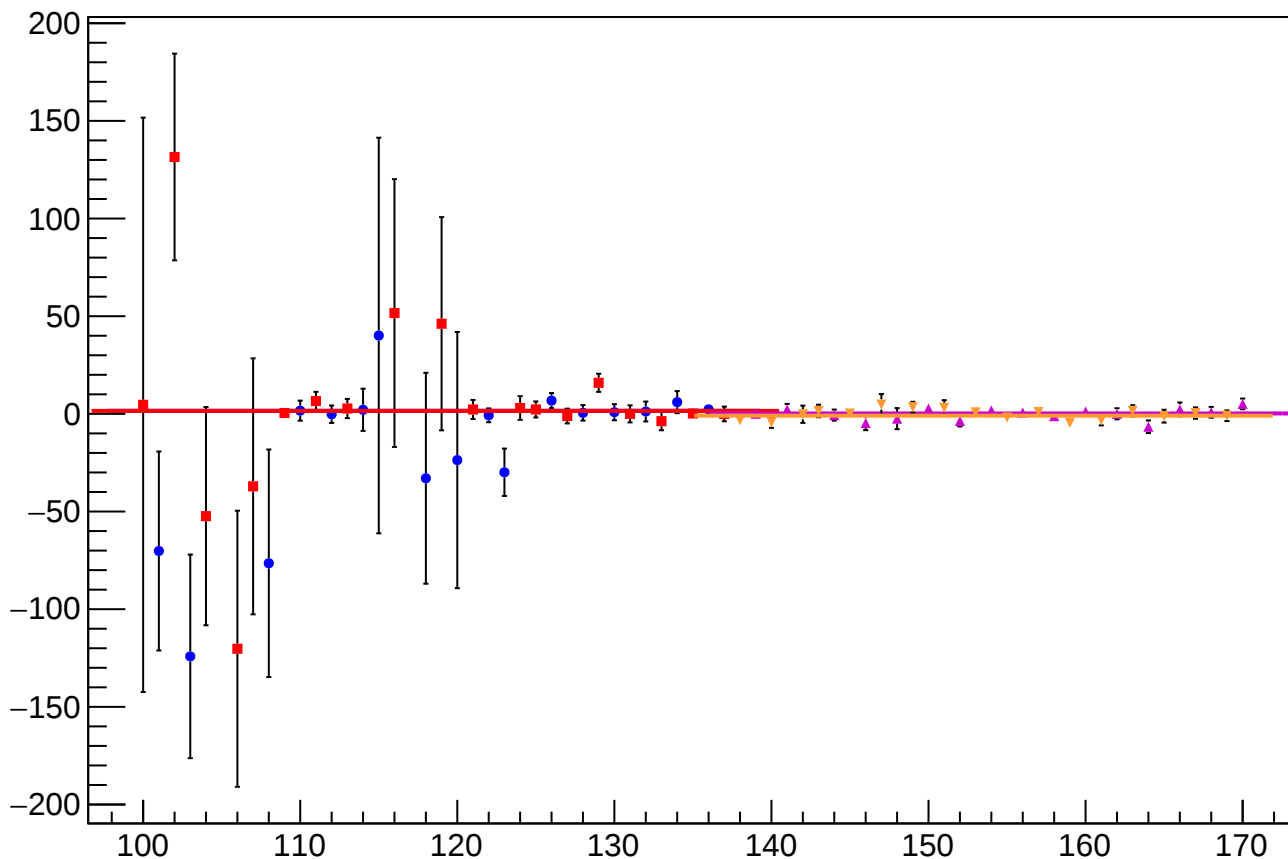
Right: 2562.854 ± 0.616 $\chi^2/\text{NDF}: 9755329.9/35$

In: 1771.701 ± 0.312 $\chi^2/\text{NDF}: 5873891.6/32$

Out: 1777.507 ± 0.310 $\chi^2/\text{NDF}: 6150219.6/35$

All: 1774.623 ± 0.220 $\chi^2/\text{NDF}: 12024285.7/6$

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -0.907 ± 0.643 $\chi^2/\text{NDF}: 14.8/16$

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

Left In: 0.213 ± 0.636 $\chi^2/\text{NDF}: 14.5/15$

Left: -0.340 ± 0.452 $\chi^2/\text{NDF}: 30.8/32$

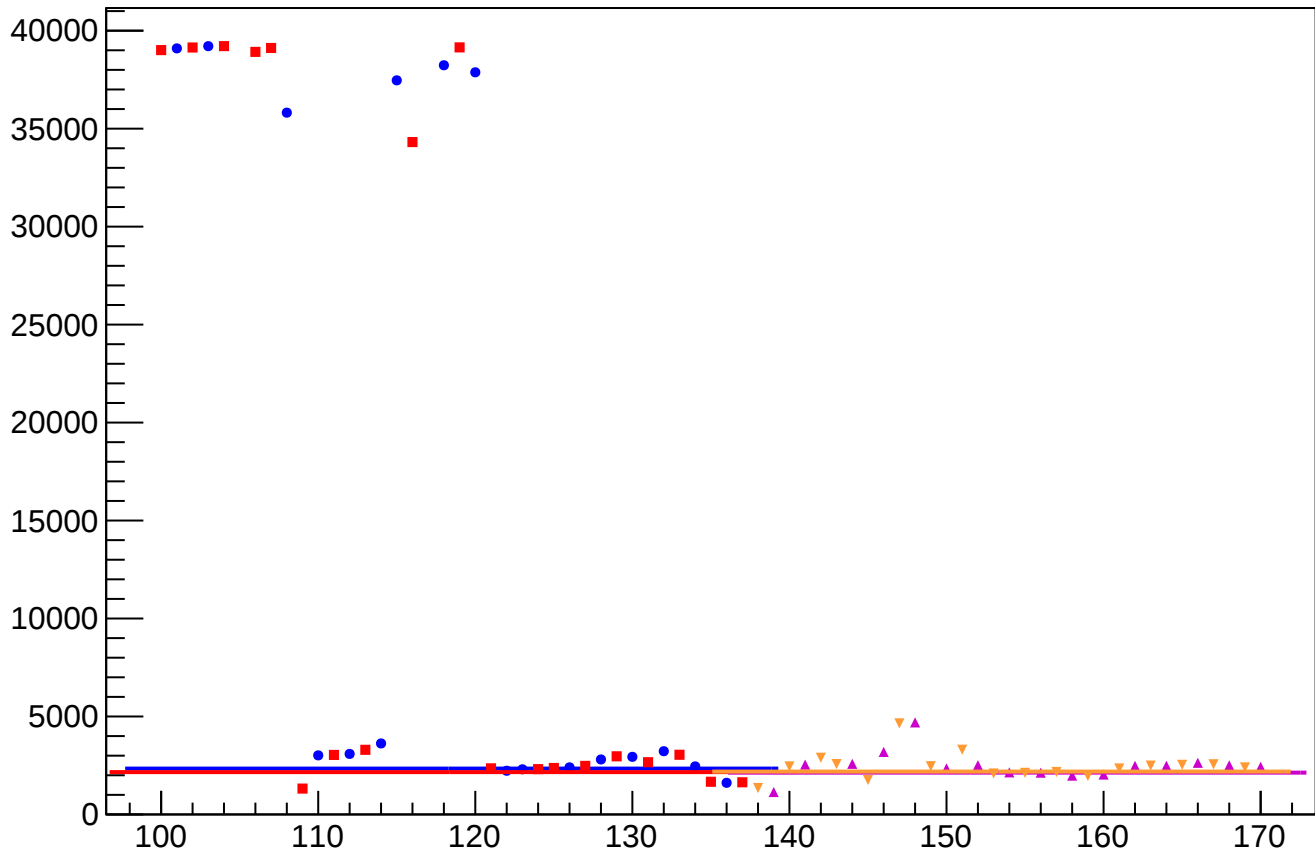
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.535 ± 0.556 $\chi^2/\text{NDF}: 35.9/32$

Out: -0.254 ± 0.550 $\chi^2/\text{NDF}: 43.6/35$

All: 0.137 ± 0.391 $\chi^2/\text{NDF}: 80.5/68$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2188.196+/-0.455 χ^2/NDF :1390852.2/16

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

Left In: 2134.469+/-0.450 χ^2/NDF :1943731.5/15

Left: 2161.009+/-0.320 χ^2/NDF : 3341639.0/32

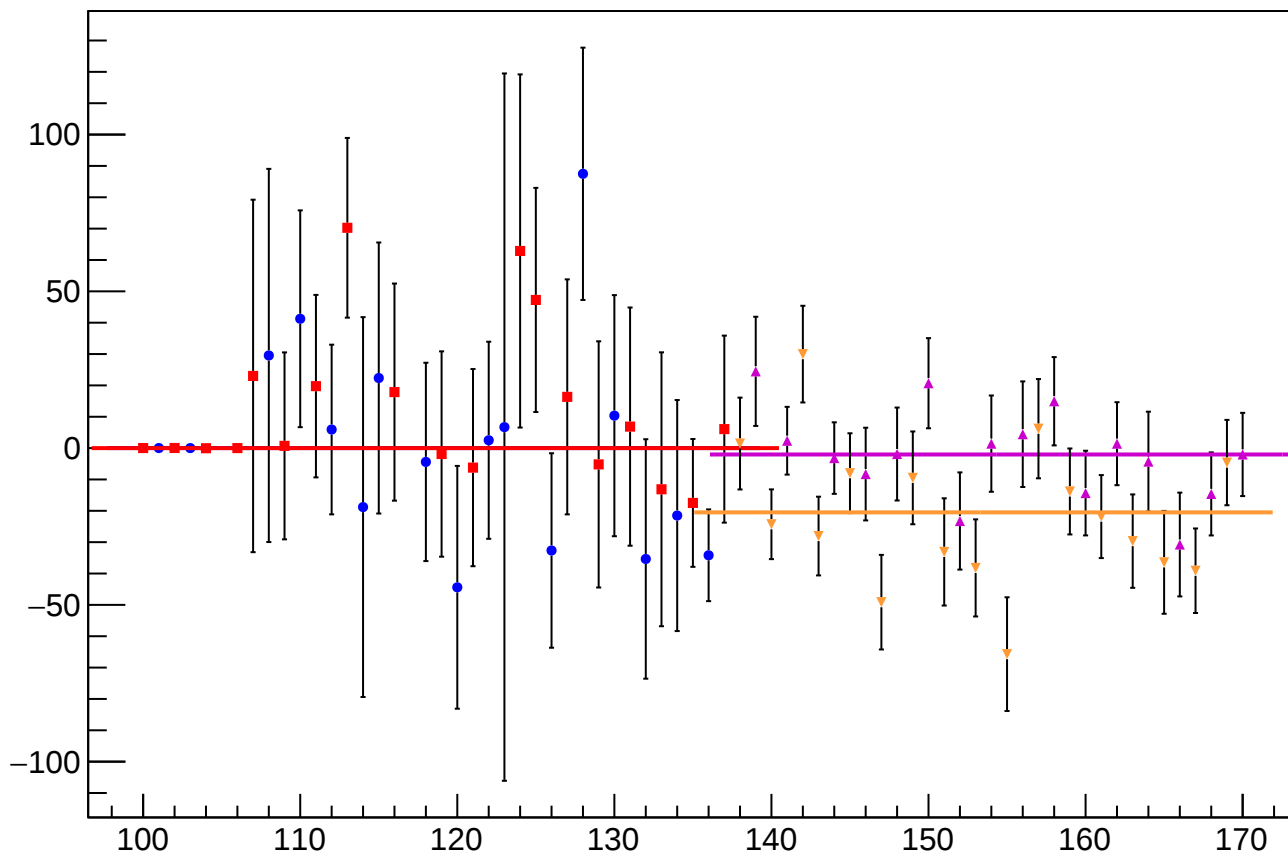
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2183.304+/-0.393 χ^2/NDF :7000531.3/32

Out: 2180.938+/-0.389 χ^2/NDF :6690850.1/35

All: 2182.110+/-0.276 χ^2/NDF : 13691399.7/66

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -20.494 $\pm$ 3.467 χ^2/NDF : 34.3/16

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

Left In: -2.035 $\pm$ 3.521 χ^2/NDF : 13.5/15

Left: -11.407 $\pm$ 2.470 χ^2/NDF : 61.8/32

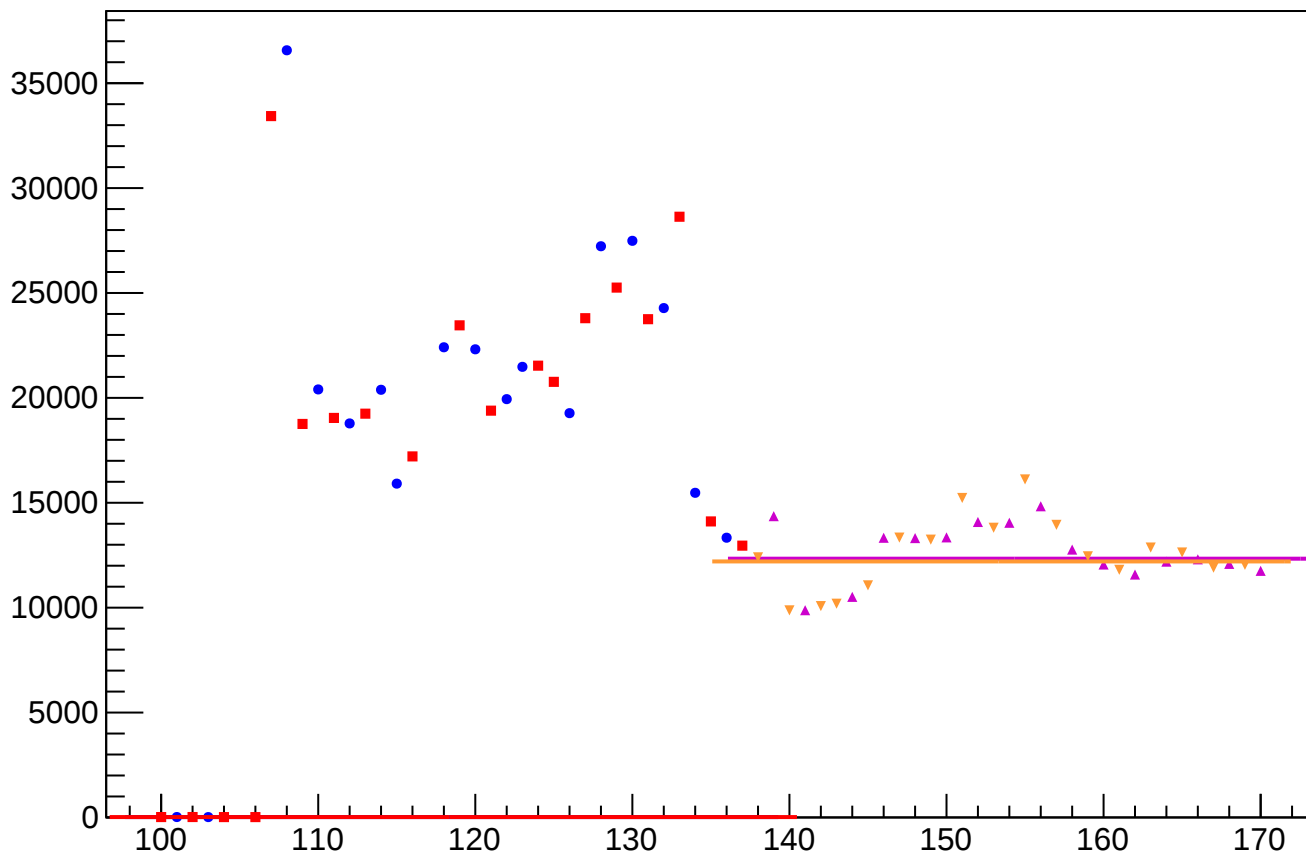
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 32.5/35

In: 0.013 $\pm$ 0.017 χ^2/NDF : 30.0/32

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 85.1/35

All: 0.004 $\pm$ 0.012 χ^2/NDF : 115.7/68

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: 12334.482 $\pm$ 2.490 χ^2 /NDF: 317488.7/15

Left: 12267.970 $\pm$ 1.747 χ^2 /NDF: 744387.4/32

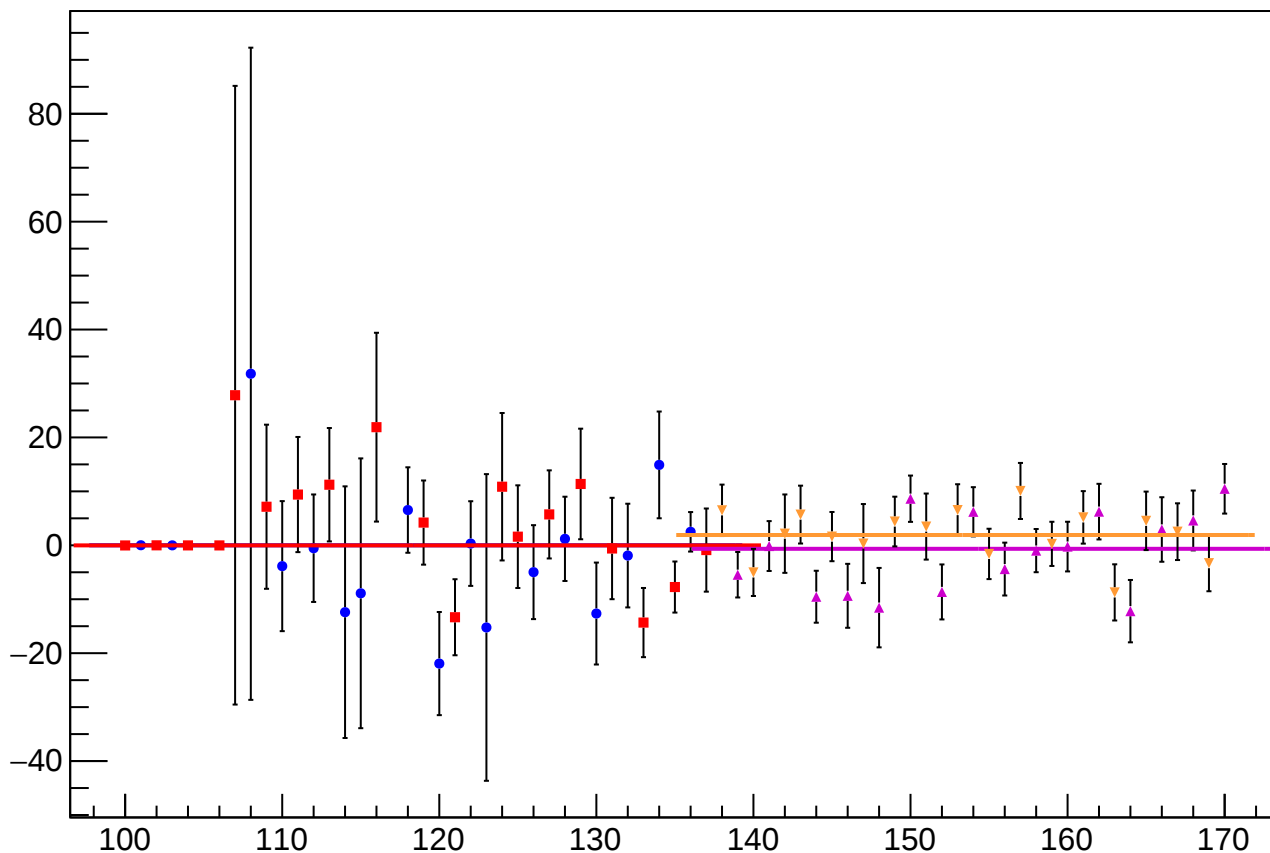
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.940 $\pm$ 0.012 χ^2 /NDF: 35771469.1/32

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

All: 18.743 $\pm$ 0.008 χ^2 /NDF: 72013812.7/68

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 1.909 ± 1.228 χ^2/NDF : 14.4/16

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

Left In: -0.650 ± 1.231 χ^2/NDF : 32.0/15

Left: 0.632 ± 0.869 χ^2/NDF : 48.5/32

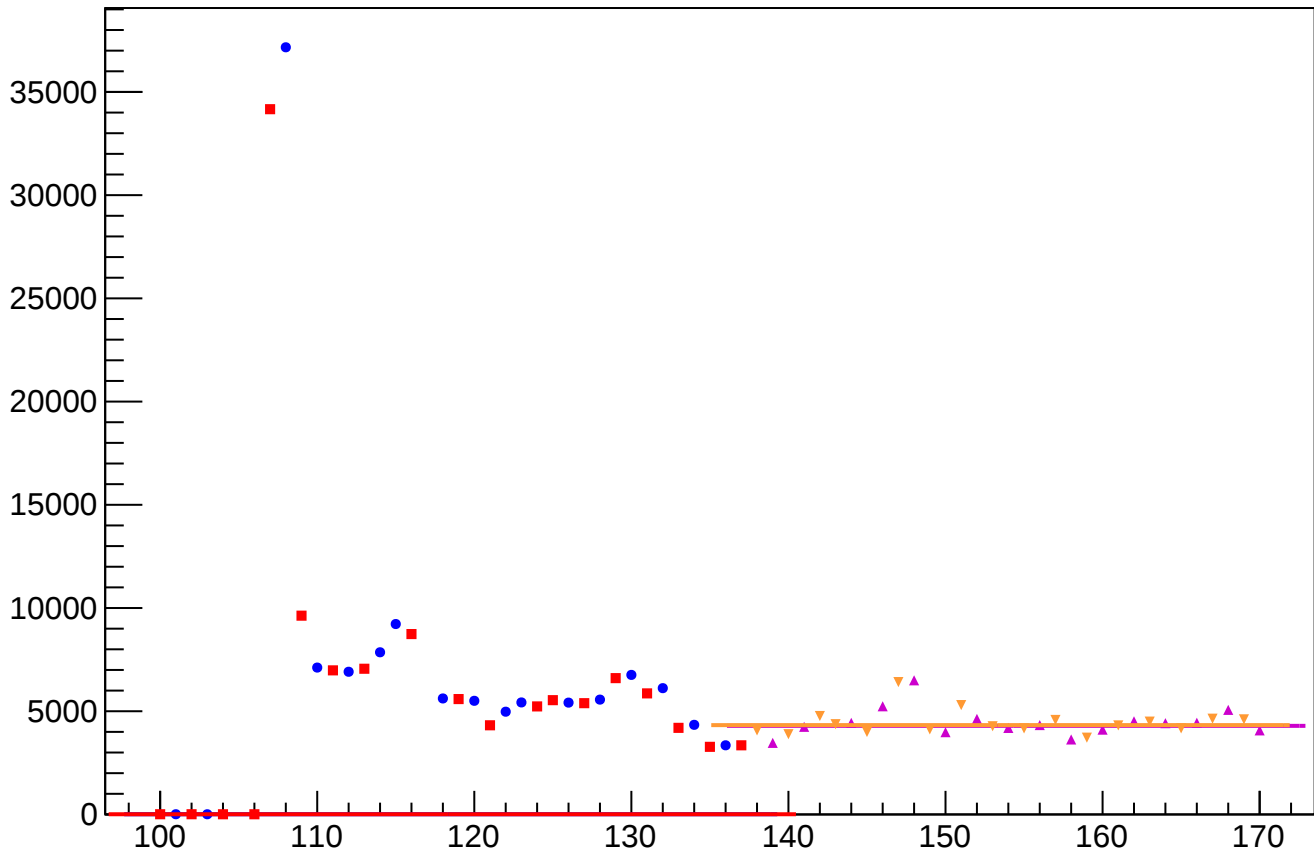
Right: -0.007 ± 0.006 χ^2/NDF : 33.0/35

In: 0.001 ± 0.009 χ^2/NDF : 45.3/32

Out: -0.014 ± 0.009 χ^2/NDF : 35.4/35

All: -0.007 ± 0.006 χ^2/NDF : 82.0/68

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4327.162 ± 0.869 χ^2/NDF : 328392.7/16

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

Left In: 4291.993 ± 0.870 χ^2/NDF : 435969.3/15

Left: 4309.612 ± 0.615 χ^2/NDF : 765180.1/32

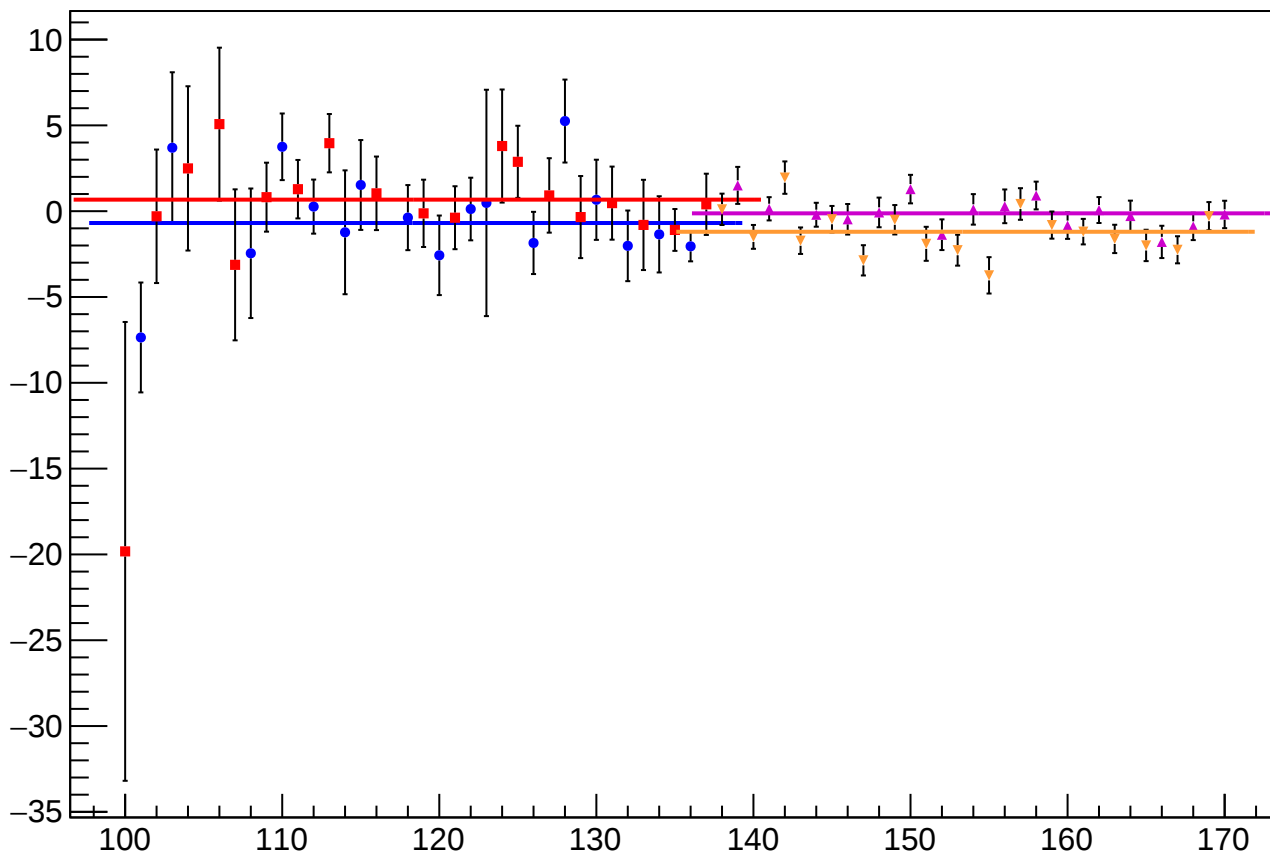
Right: 9.894 ± 0.004 χ^2/NDF : 22274609.0/35

In: 10.178 ± 0.007 χ^2/NDF : 35760845.7/32

Out: 10.069 ± 0.006 χ^2/NDF : 36196214.0/35

All: 10.120 ± 0.004 χ^2/NDF : 71957211.2/68

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -1.200 ± 0.205 χ^2/NDF : 34.0/16

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

Left In: -0.126 ± 0.208 χ^2/NDF : 14.3/15

Left: -0.671 ± 0.146 χ^2/NDF : 61.9/32

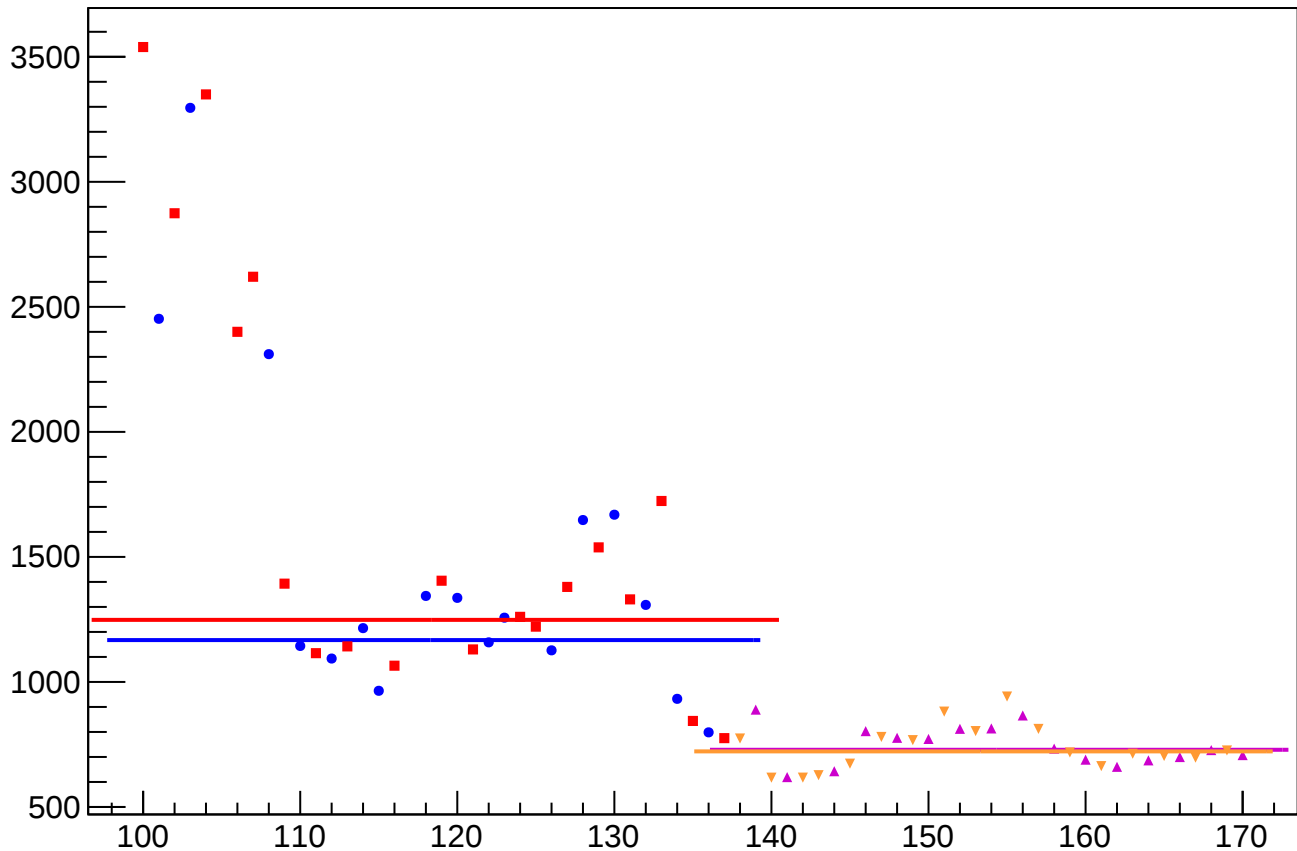
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.214 ± 0.191 χ^2/NDF : 38.0/32

Out: -0.932 ± 0.189 χ^2/NDF : 59.3/35

All: -0.575 ± 0.134 χ^2/NDF : 104.4/68

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 722.299 ± 0.145 $\chi^2/\text{NDF}: 317660.4/16$

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

Left In: 728.722 ± 0.147 $\chi^2/\text{NDF}: 256728.2/15$

Left: 725.463 ± 0.103 $\chi^2/\text{NDF}: 575359.1/32$

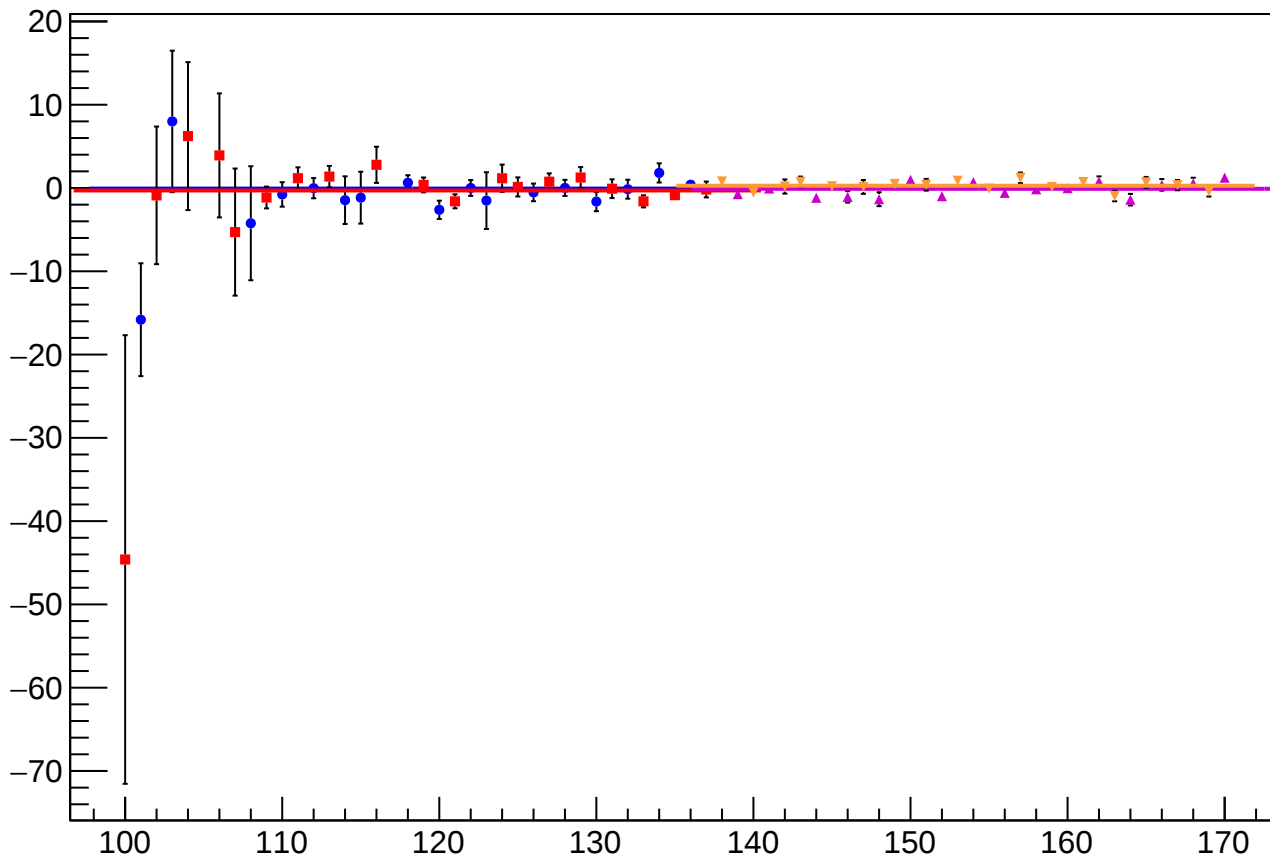
Right: 1206.306 ± 0.246 $\chi^2/\text{NDF}: 3259405.5/35$

In: 797.353 ± 0.135 $\chi^2/\text{NDF}: 3230913.9/32$

Out: 797.606 ± 0.134 $\chi^2/\text{NDF}: 3862622.4/35$

All: 797.480 ± 0.095 $\chi^2/\text{NDF}: 7093538.0/68$

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: -0.095 ± 0.148 χ^2/NDF : 31.6/15

Left: 0.090 ± 0.104 χ^2/NDF : 48.6/32

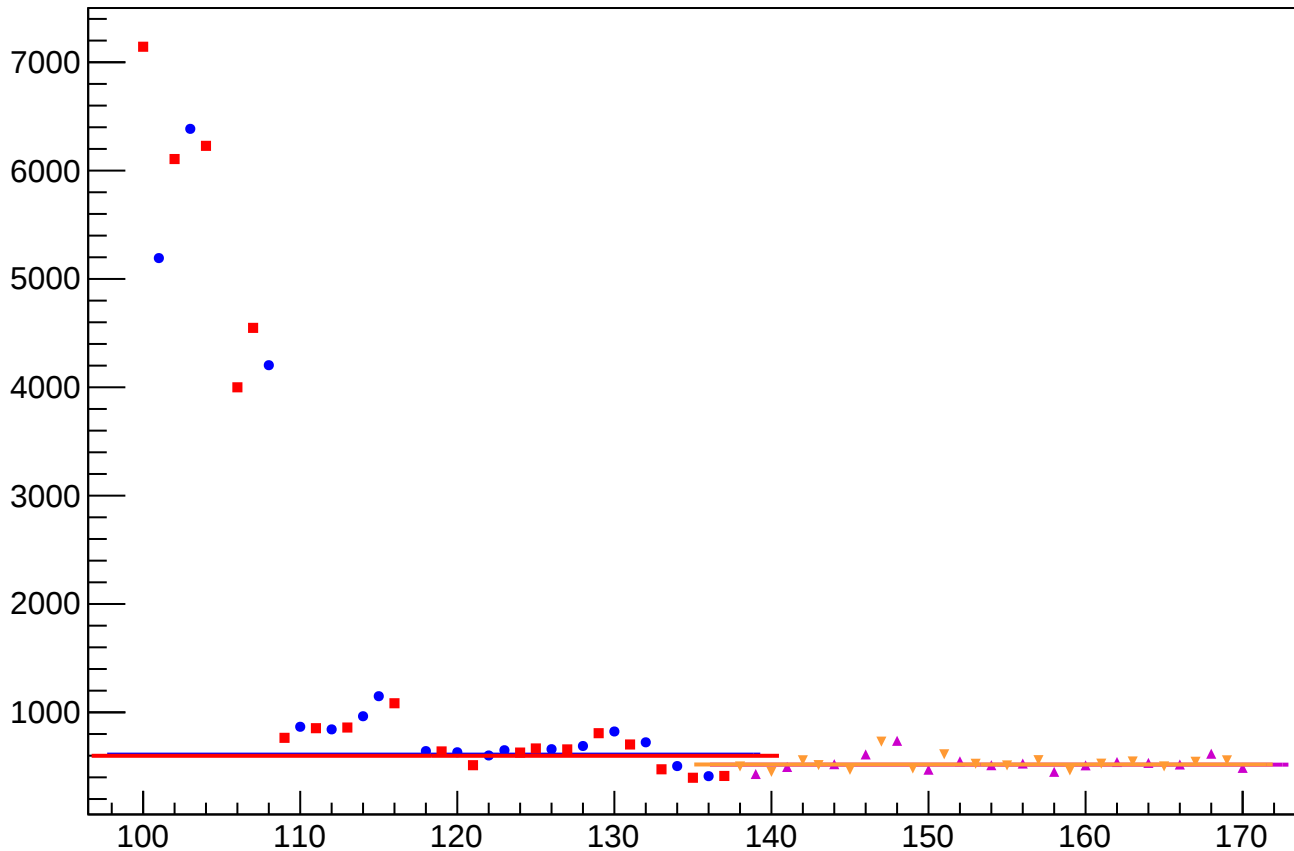
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.090 ± 0.130 χ^2/NDF : 50.9/32

Out: 0.139 ± 0.128 χ^2/NDF : 37.6/35

All: 0.026 ± 0.091 χ^2/NDF : 90.0/68

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: 517.183 $\pm$ 0.105 χ^2 /NDF: 346748.4/15

Left: 517.998 $\pm$ 0.074 χ^2 /NDF: 627656.4/32

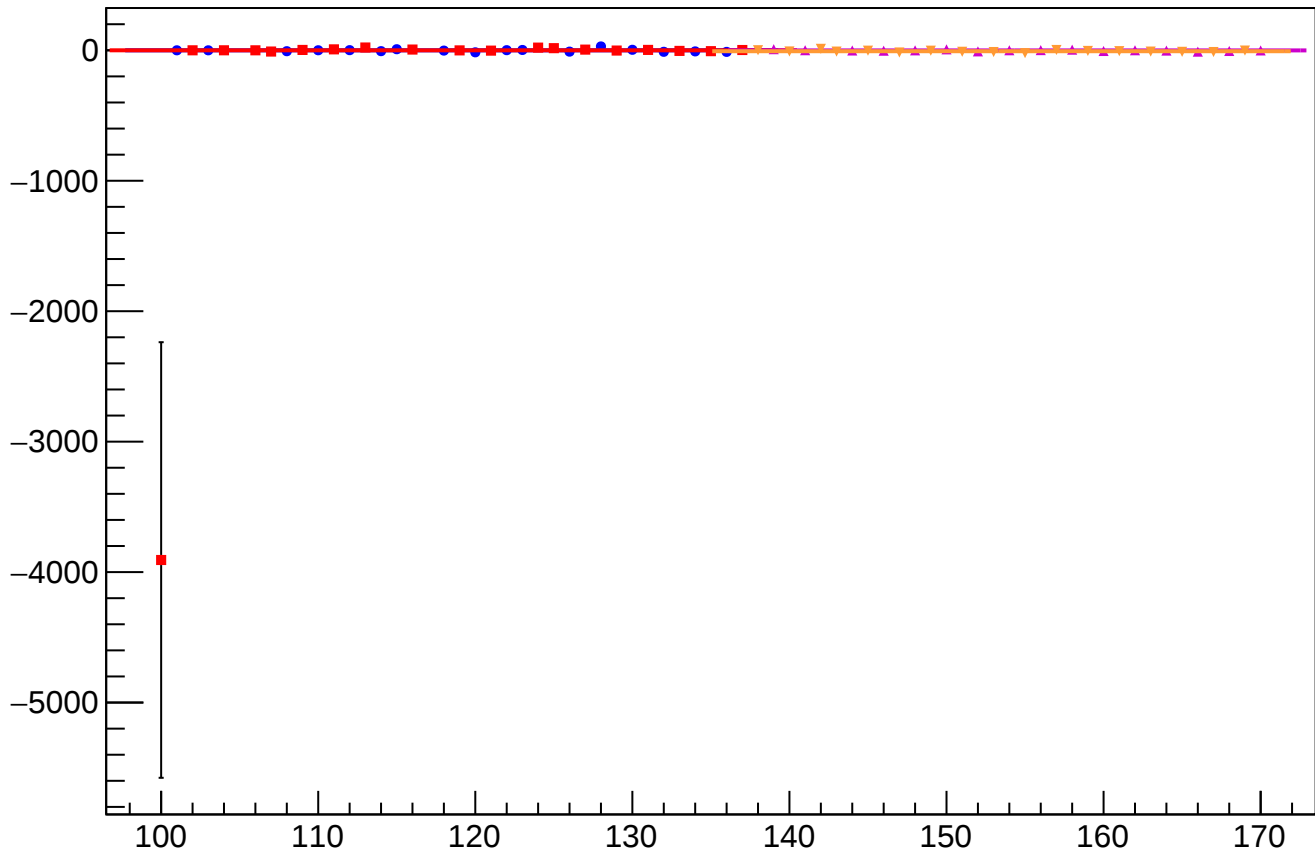
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 538.745 $\pm$ 0.092 χ^2 /NDF: 3665094.2/32

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

All: 538.272 $\pm$ 0.065 χ^2 /NDF: 7639314.7/68

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: -0.733 ± 1.211 χ^2/NDF : 14.0/15

Left: -3.889 ± 0.850 χ^2/NDF : 61.3/32

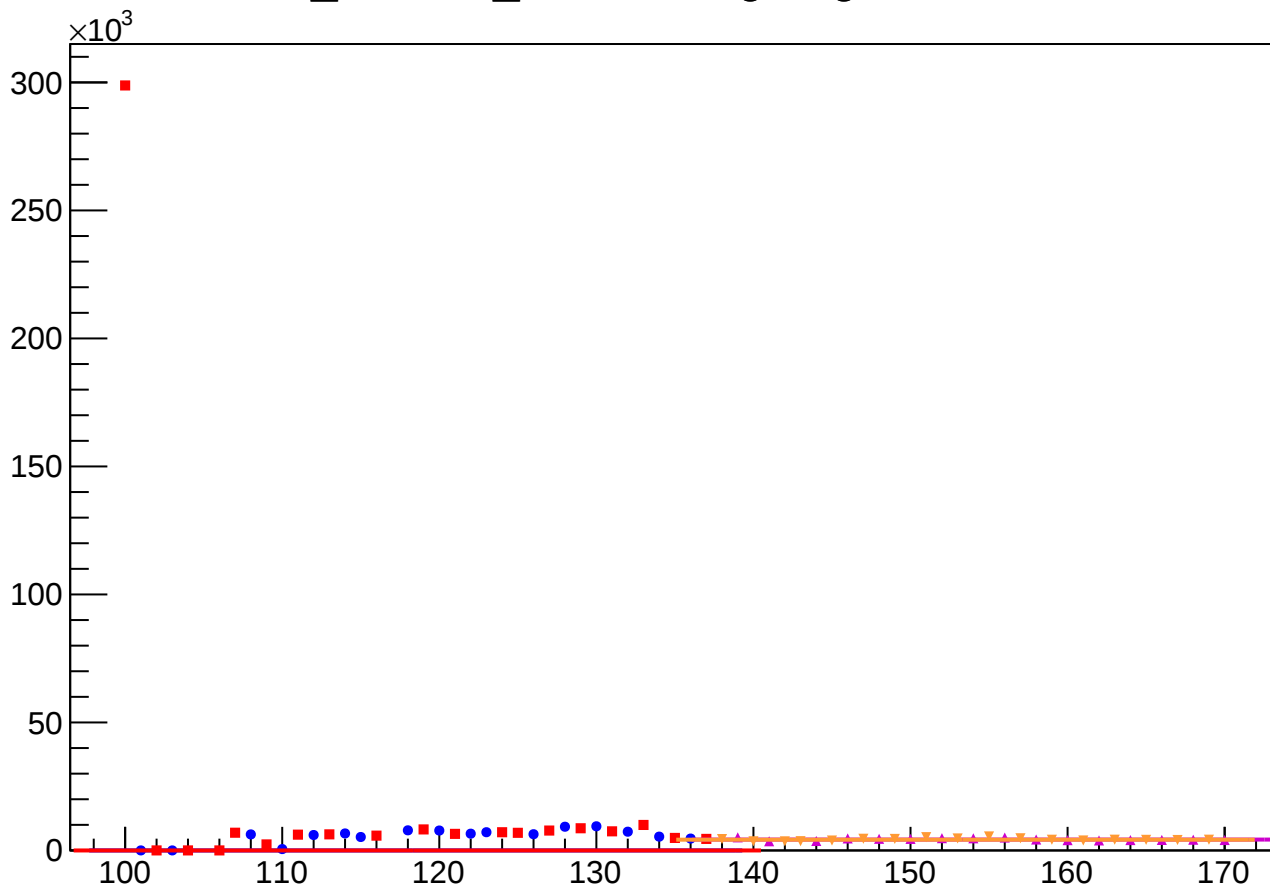
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 29.9/32

Out: 0.025 ± 0.020 χ^2/NDF : 86.1/35

All: 0.003 ± 0.014 χ^2/NDF : 118.7/68

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4206.788 $\pm$ 0.843 χ^2 /NDF: 335435.9/16

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

Left In: 4249.543 $\pm$ 0.857 χ^2 /NDF: 261927.2/15

Left: 4227.832 $\pm$ 0.601 χ^2 /NDF: 598628.4/32

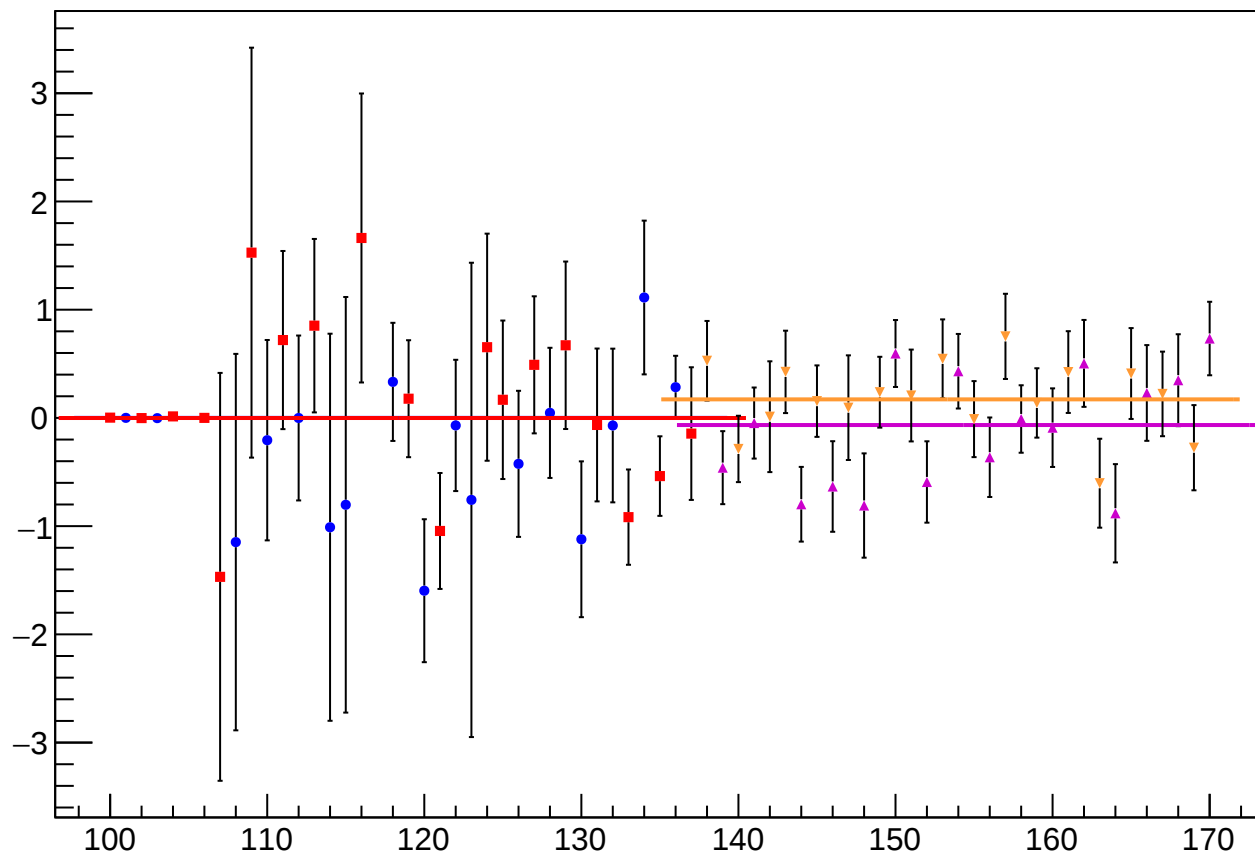
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

In: 18.588 $\pm$ 0.015 χ^2 /NDF: 35170781.5/32

Out: 18.421 $\pm$ 0.014 χ^2 /NDF: 35832650.7/35

All: 18.500 $\pm$ 0.010 χ^2 /NDF: 71003500.0/68

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.171 $\pm$ 0.091 χ^2/NDF :12.9/16

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

Left In: -0.066 $\pm$ 0.092 χ^2/NDF :31.6/15

Left: 0.054 $\pm$ 0.065 χ^2/NDF : 47.9/32

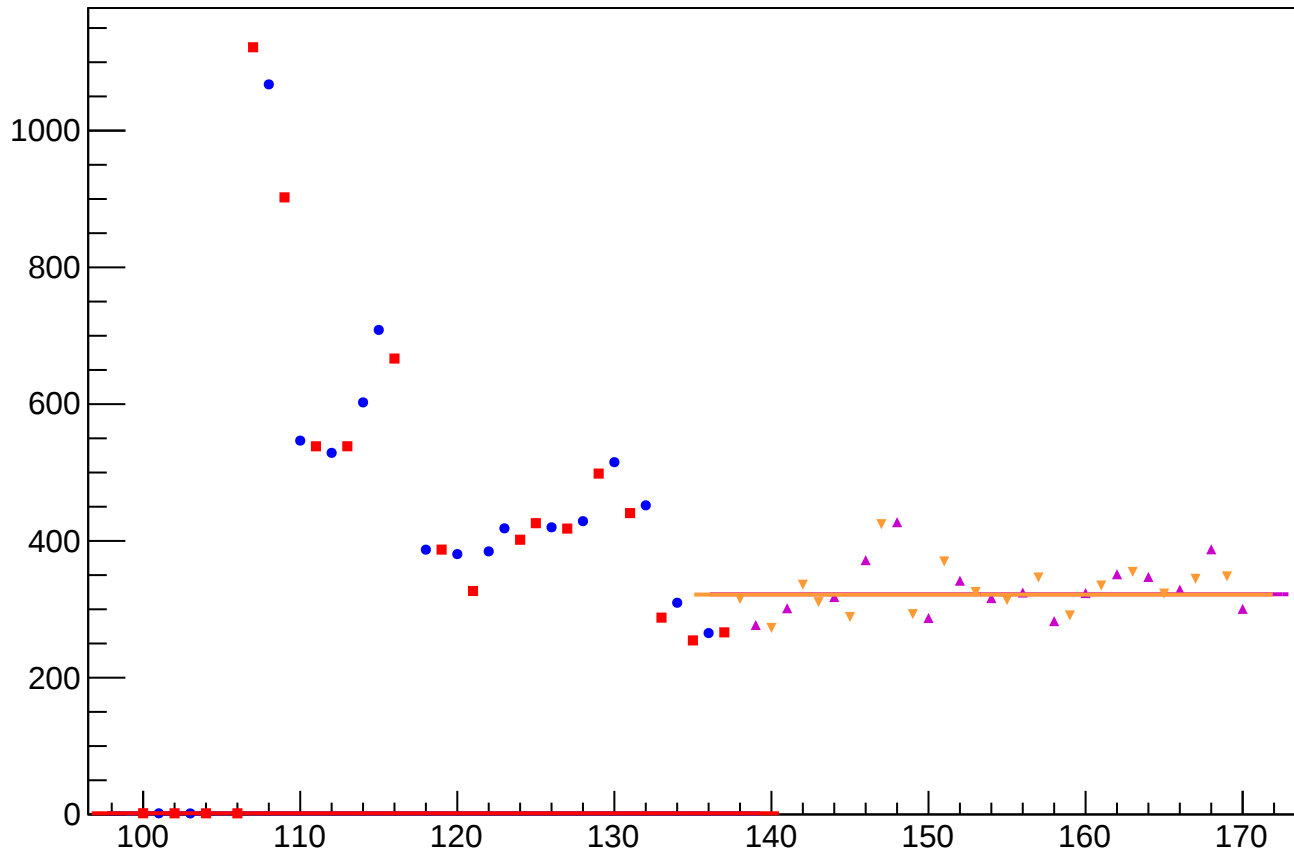
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF :45.8/32

Out: -0.001 $\pm$ 0.002 χ^2/NDF :34.4/35

All: -0.000 $\pm$ 0.001 χ^2/NDF : 80.4/68

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: 321.988 $\pm$ 0.065 χ^2 /NDF:304120.2/15

Left: 321.748 $\pm$ 0.046 χ^2 /NDF: 569455.5/32

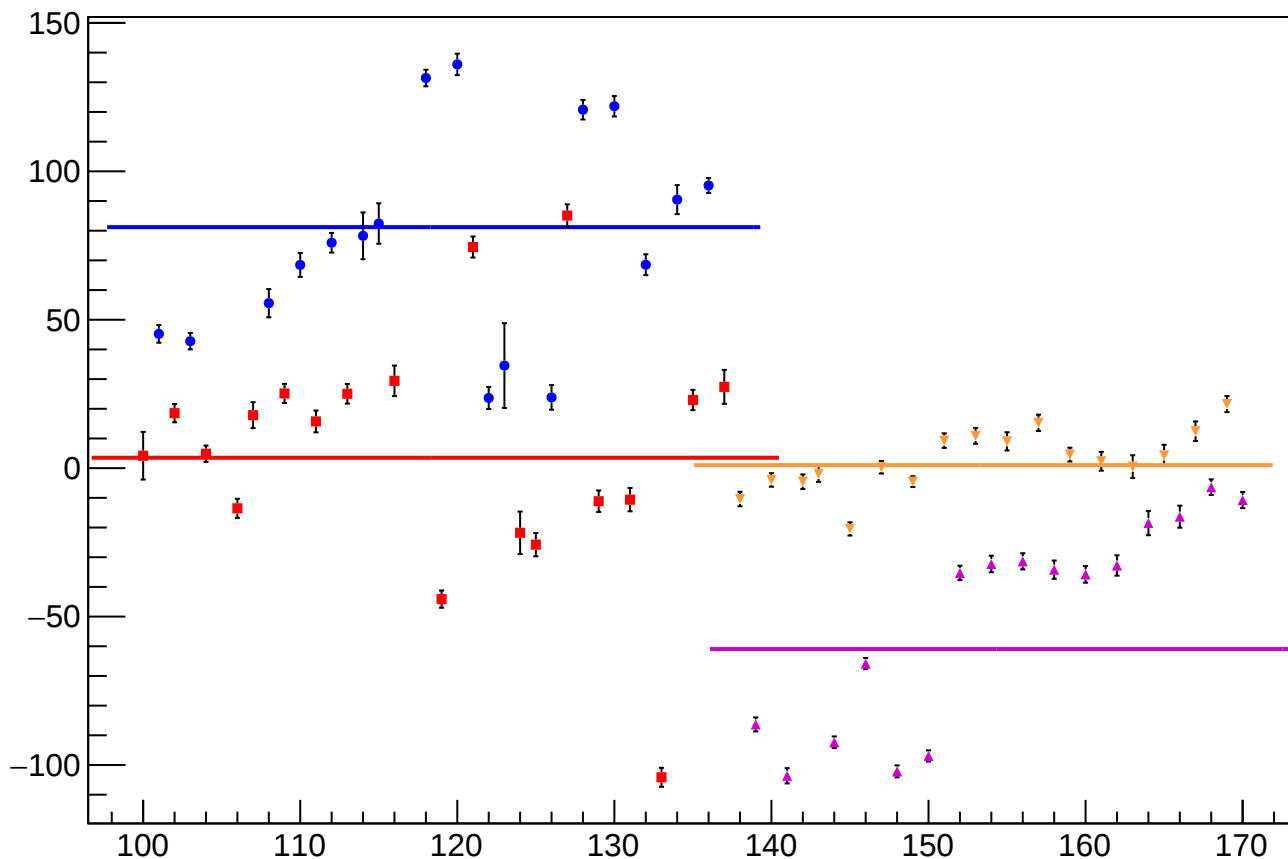
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

In: 1.854 $\pm$ 0.001 χ^2 /NDF:35575102.5/32

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

All: 1.864 $\pm$ 0.001 χ^2 /NDF: 71220611.0/68

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 1.023 $\pm$ 0.621 χ^2 /NDF: 266.7/16

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

Left In: -60.943 $\pm$ 0.625 χ^2 /NDF: 3021.6/15

Left: -29.775 $\pm$ 0.440 χ^2 /NDF: 8239.4/32

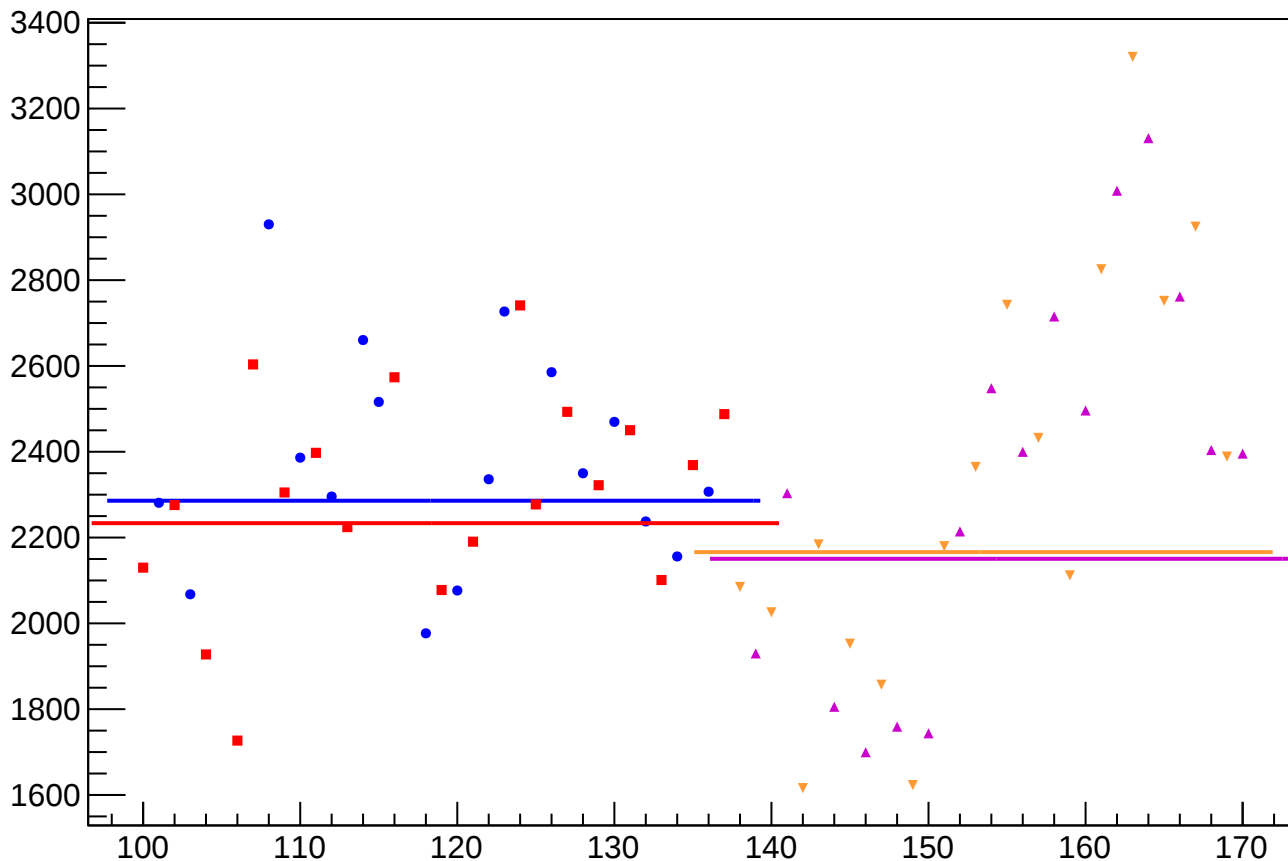
Right: 40.415 $\pm$ 0.610 χ^2 /NDF: 8348.3/35

In: -13.735 $\pm$ 0.510 χ^2 /NDF: 21933.9/32

Out: 1.897 $\pm$ 0.500 χ^2 /NDF: 2871.3/35

All: -5.754 $\pm$ 0.357 χ^2 /NDF: 25284.1/68

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: 2150.521 $\pm$ 0.442 χ^2 /NDF:854578.7/15

Left: 2158.348 $\pm$ 0.311 χ^2 /NDF: 1744042.6/32

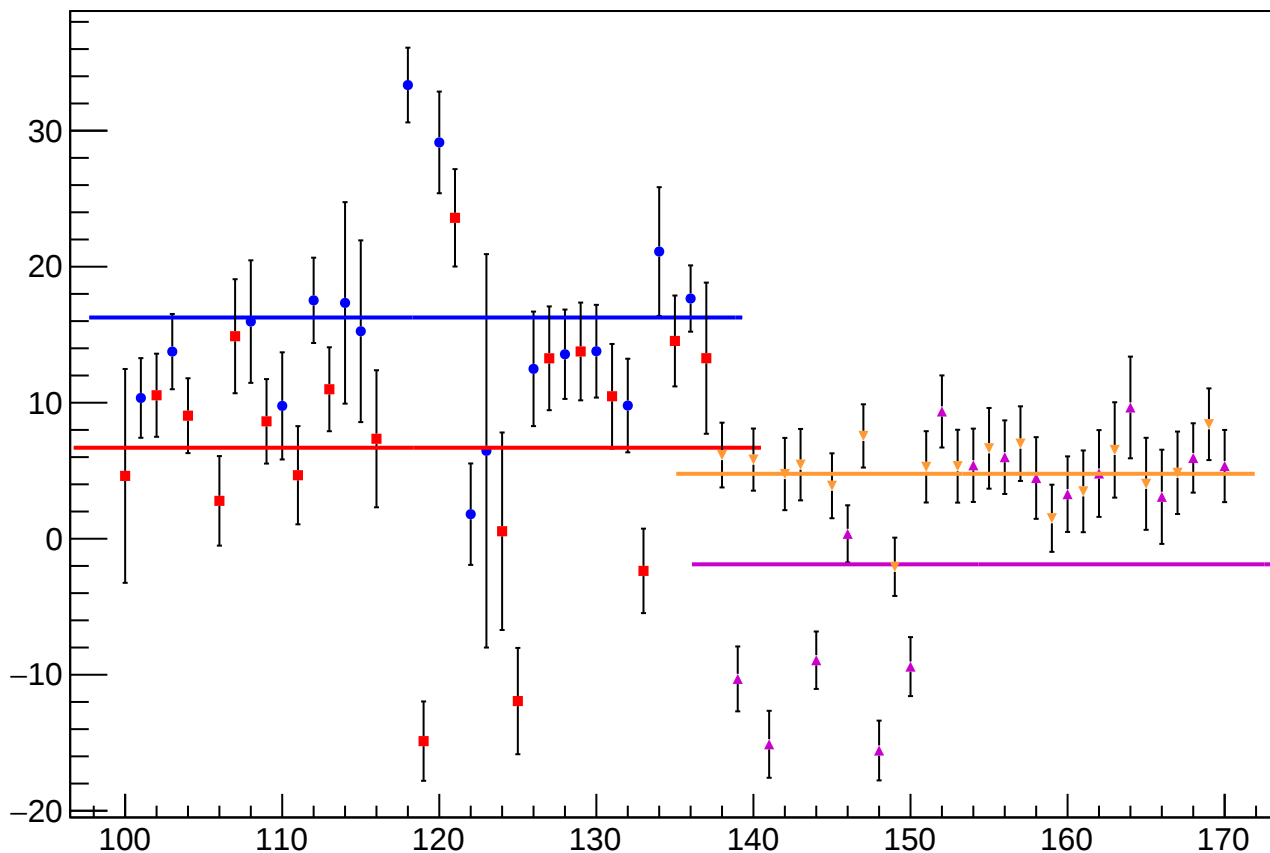
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2195.467 $\pm$ 0.361 χ^2 /NDF:995102.9/32

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

All: 2192.586 $\pm$ 0.253 χ^2 /NDF: 2039227.2/68

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 $\pm$ 0.872 χ^2 /NDF: 80.8/16

Left Out: 4.774 $\pm$ 0.637 χ^2 /NDF: 17.6/16

Right Out: 6.690 $\pm$ 0.831 χ^2 /NDF: 134.0/18

Left In: -1.882 $\pm$ 0.643 χ^2 /NDF: 178.9/15

Left: 1.476 $\pm$ 0.453 χ^2 /NDF: 250.6/32

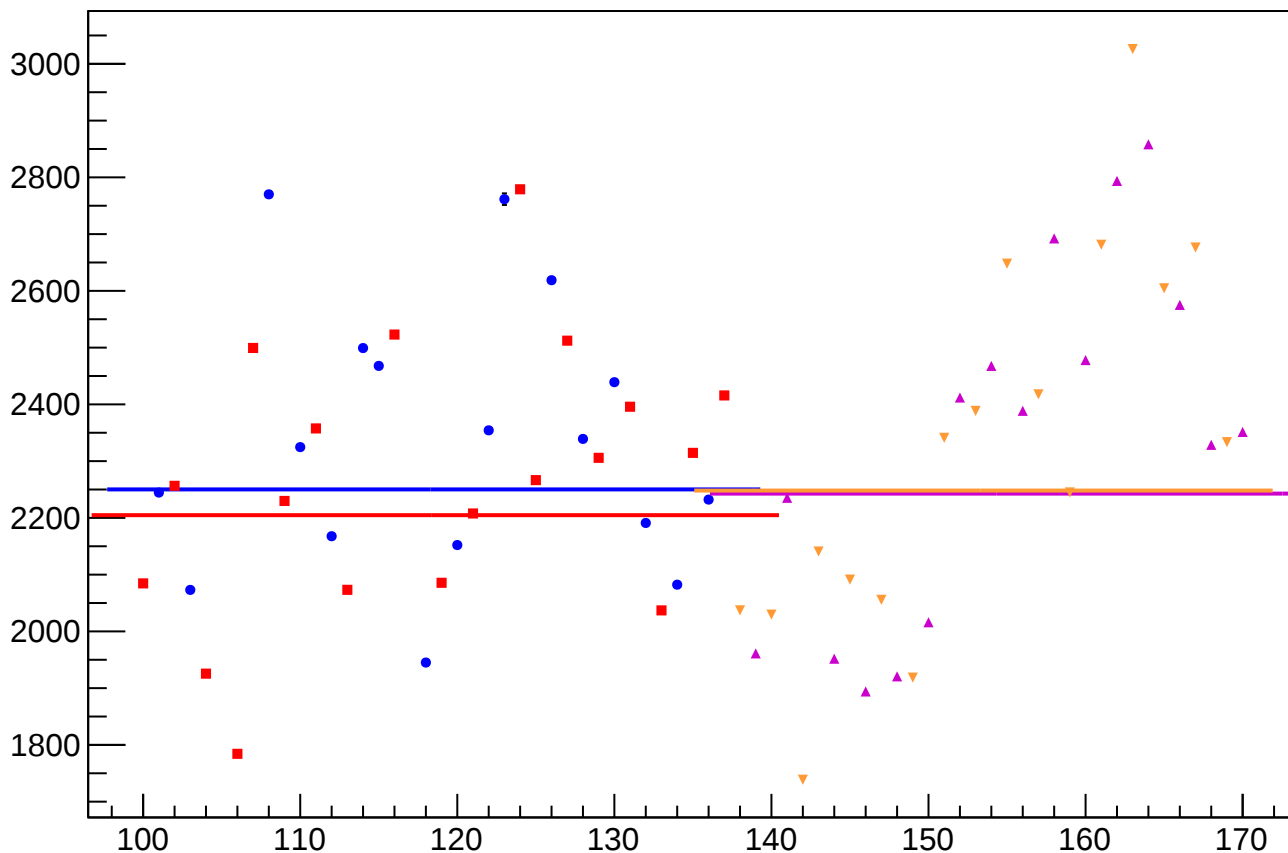
Right: 11.249 $\pm$ 0.601 χ^2 /NDF: 278.0/35

In: 4.517 $\pm$ 0.517 χ^2 /NDF: 540.5/32

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

All: 5.012 $\pm$ 0.362 χ^2 /NDF: 697.2/68

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: 2242.799+/-0.455 χ^2/NDF : 410705.1/15

Left: 2245.499+/-0.320 χ^2/NDF : 847588.9/32

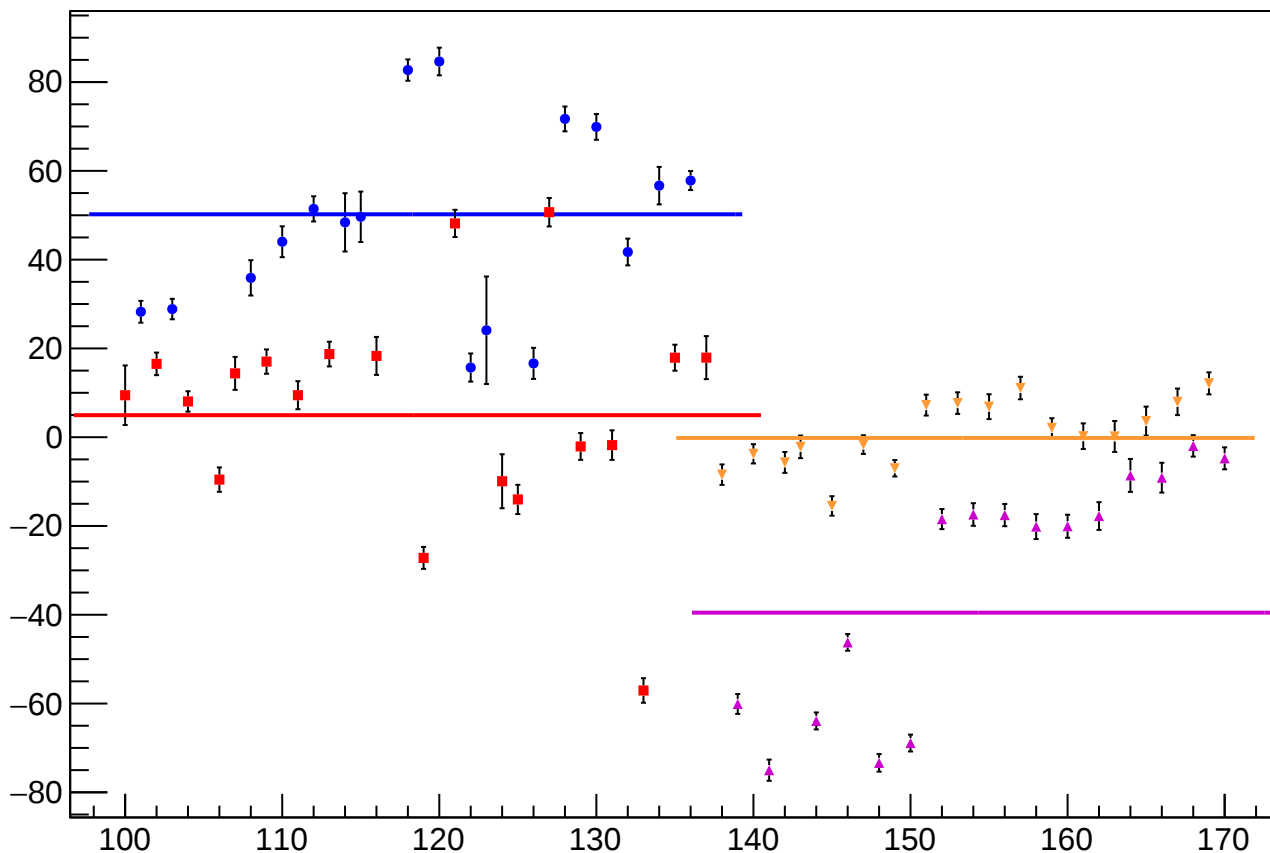
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2245.400+/-0.366 χ^2/NDF : 508375.9/32

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

All: 2238.587+/-0.256 χ^2/NDF : 1075524.5/68

diff_bpm0i01aX_mean vs Slug, Sign Corrected

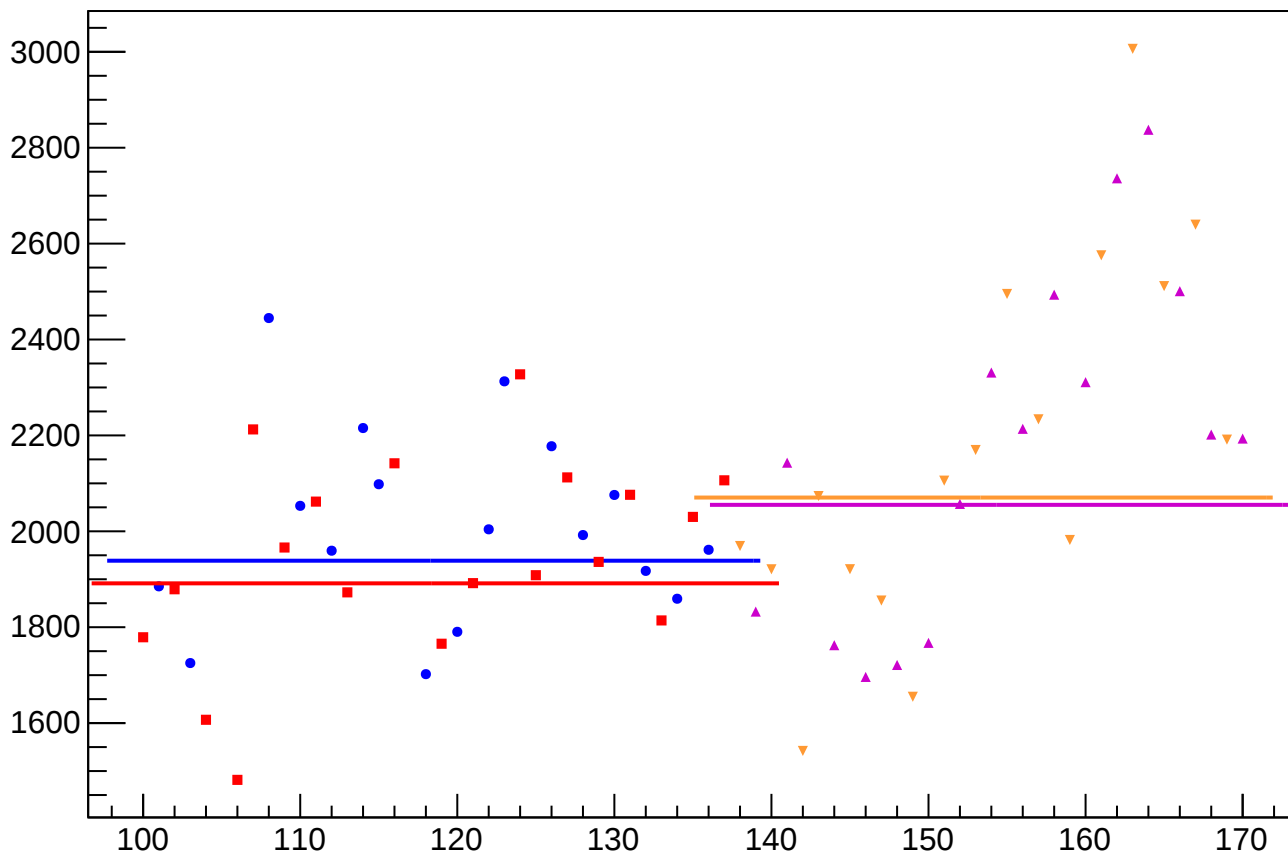


Right In: 50.215 ± 0.751 $\chi^2/\text{NDF}: 830.3/16$
 Left Out: -0.168 ± 0.590 $\chi^2/\text{NDF}: 165.3/16$
 Right Out: 4.958 ± 0.713 $\chi^2/\text{NDF}: 1262.6/18$
 Left In: -39.524 ± 0.593 $\chi^2/\text{NDF}: 1992.5/15$

Left: -19.737 ± 0.418 $\chi^2/\text{NDF}: 4371.9/32$
 Right: 26.432 ± 0.517 $\chi^2/\text{NDF}: 4002.4/35$
 In: -5.043 ± 0.465 $\chi^2/\text{NDF}: 11620.1/32$
 Out: 1.913 ± 0.455 $\chi^2/\text{NDF}: 1458.6/35$

All: -1.483 ± 0.325 $\chi^2/\text{NDF}: 13193.0/68$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2070.412 +/- 0.417 χ^2/NDF : 625469.2/16

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

Left In: 2055.173 +/- 0.419 χ^2/NDF : 576450.0/15

Left: 2062.835 +/- 0.296 χ^2/NDF : 1202583.1/32

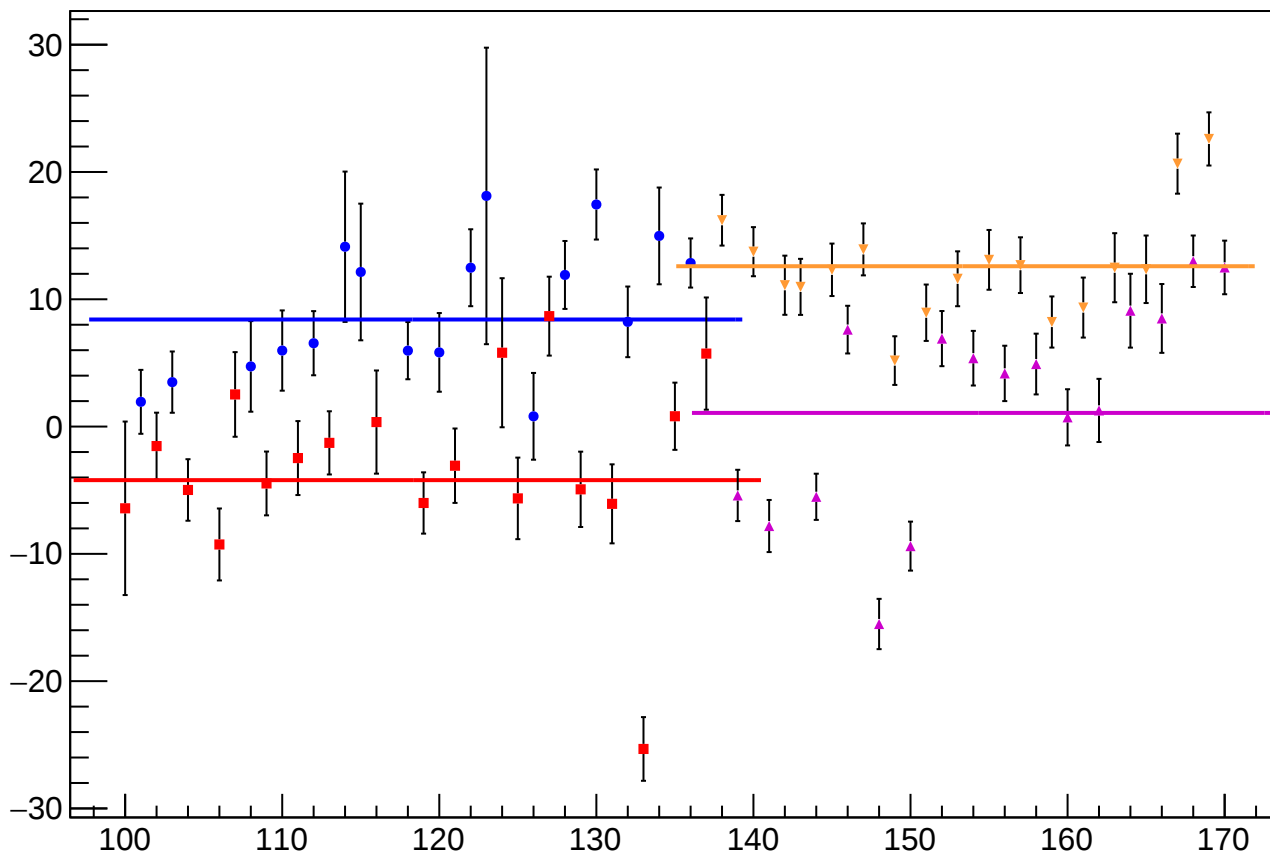
Right: 1913.873 +/- 0.366 χ^2/NDF : 250923.8/35

In: 2010.415 +/- 0.329 χ^2/NDF : 706238.3/32

Out: 1997.763 +/- 0.321 χ^2/NDF : 846839.2/35

All: 2003.940 +/- 0.230 χ^2/NDF : 1553834.1/68

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 12.597 ± 0.528 χ^2/NDF : 64.3/16

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

Left In: 1.072 ± 0.534 χ^2/NDF : 249.9/15

Left: 6.895 ± 0.375 χ^2/NDF : 549.9/32

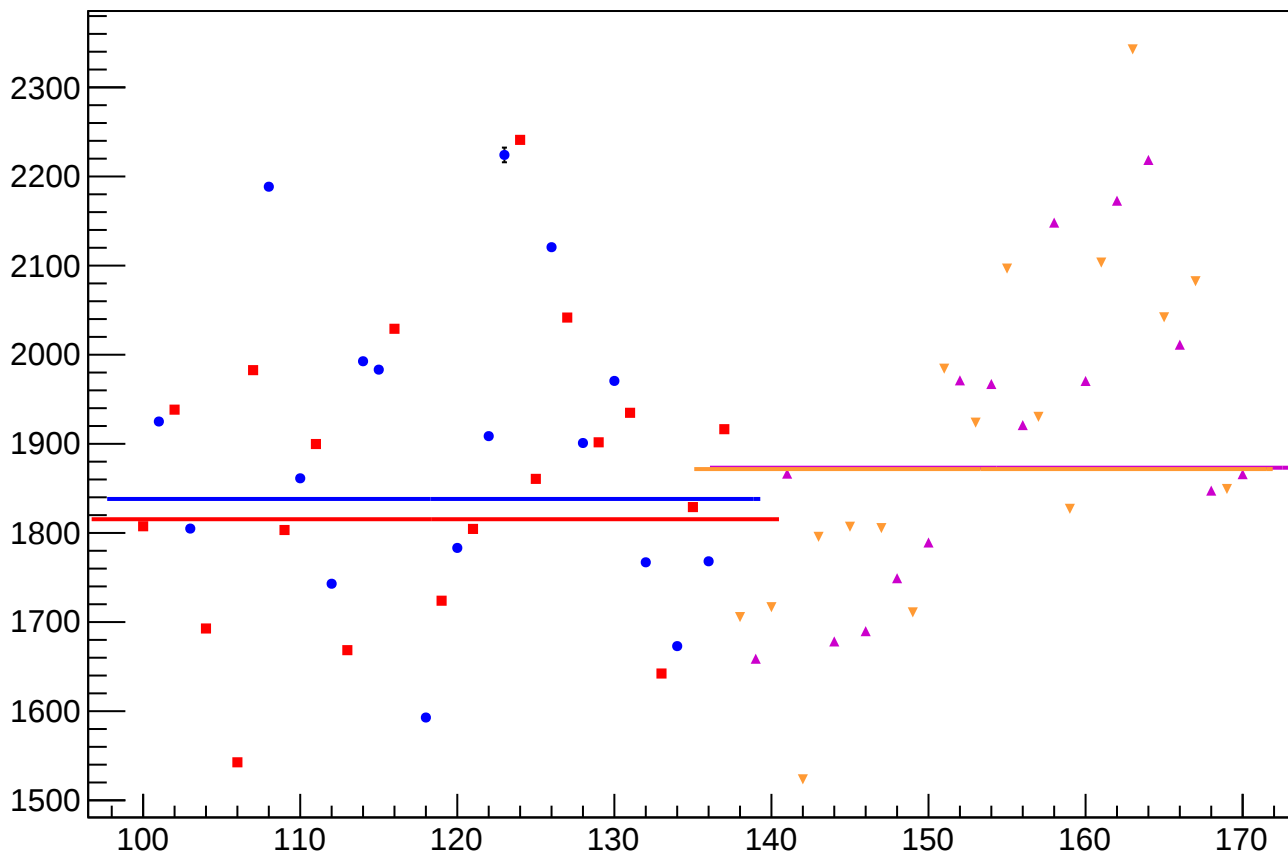
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 3.716 ± 0.427 χ^2/NDF : 362.6/32

Out: 6.302 ± 0.418 χ^2/NDF : 556.7/35

All: 5.037 ± 0.299 χ^2/NDF : 938.1/68

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1871.681 $\pm$ 0.373 χ^2/NDF : 223499.0/16

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

Left In: 1873.209 $\pm$ 0.377 χ^2/NDF : 179013.6/15

Left: 1872.437 $\pm$ 0.265 χ^2/NDF : 402520.8/32

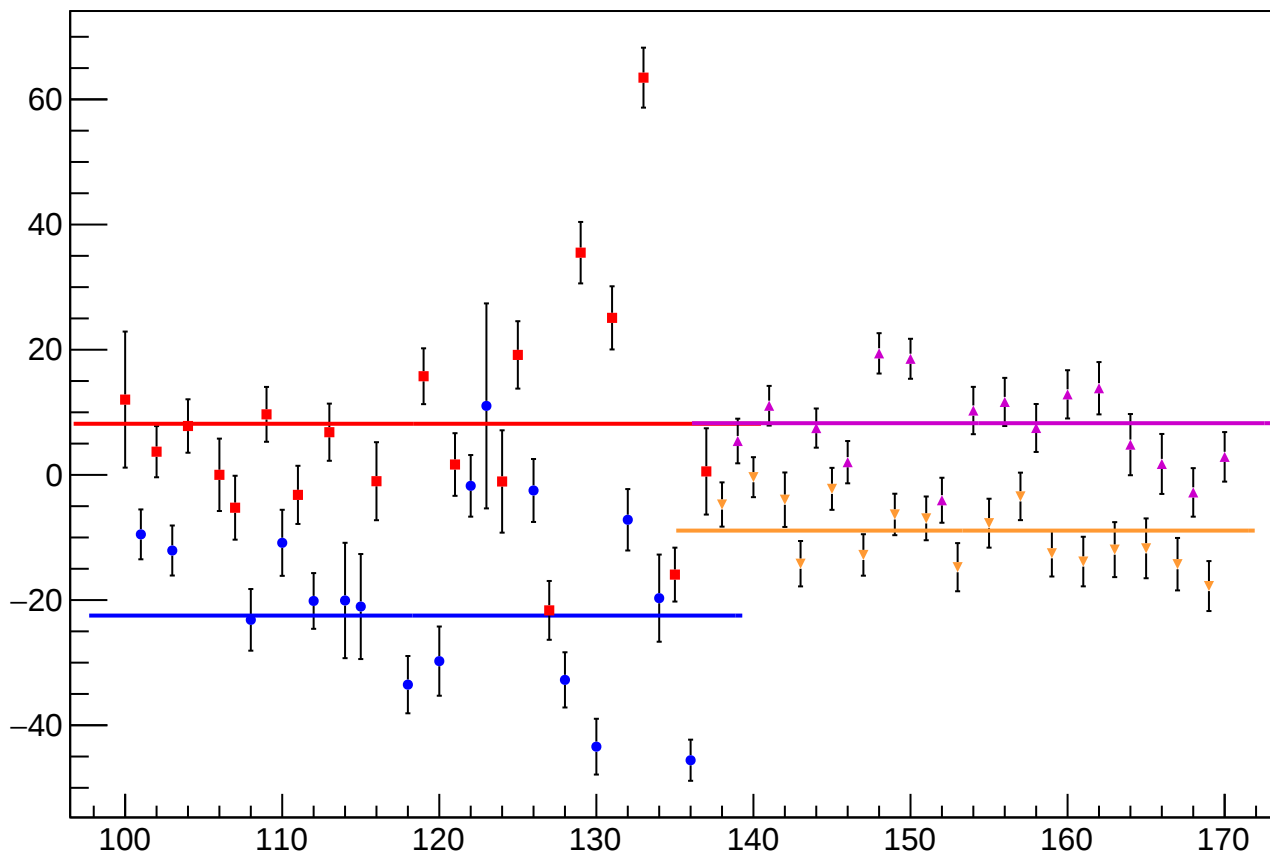
Right: 1826.303 $\pm$ 0.348 χ^2/NDF : 171362.3/35

In: 1860.577 $\pm$ 0.302 χ^2/NDF : 265002.4/32

Out: 1850.600 $\pm$ 0.295 χ^2/NDF : 319425.6/35

All: 1855.479 $\pm$ 0.211 χ^2/NDF : 584986.1/68

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -8.899 ± 0.908 χ^2/NDF : 32.6/16

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

Left In: 8.261 ± 0.918 χ^2/NDF : 55.6/15

Left: -0.420 ± 0.646 χ^2/NDF : 264.8/32

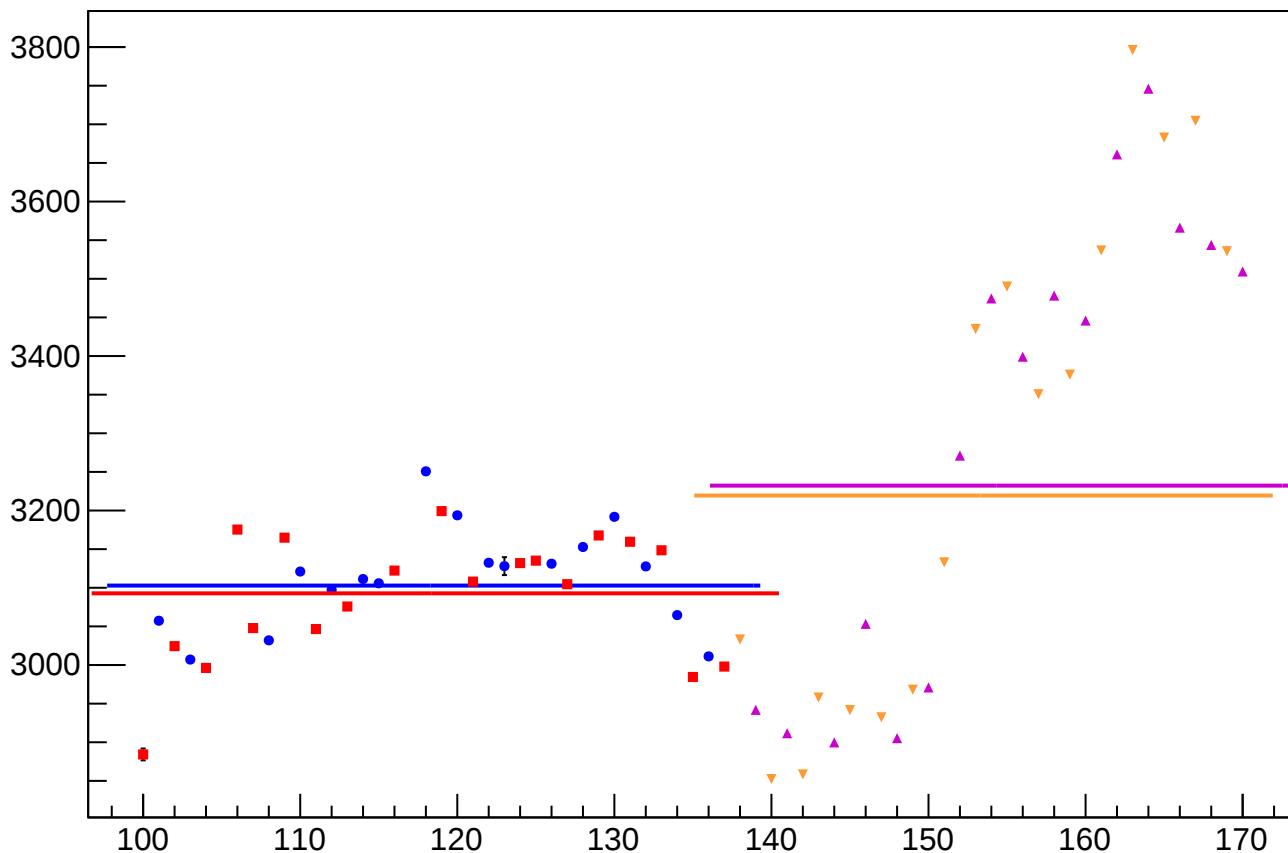
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.157 ± 0.728 χ^2/NDF : 626.4/32

Out: -2.393 ± 0.714 χ^2/NDF : 444.3/35

All: -2.768 ± 0.510 χ^2/NDF : 1071.2/68

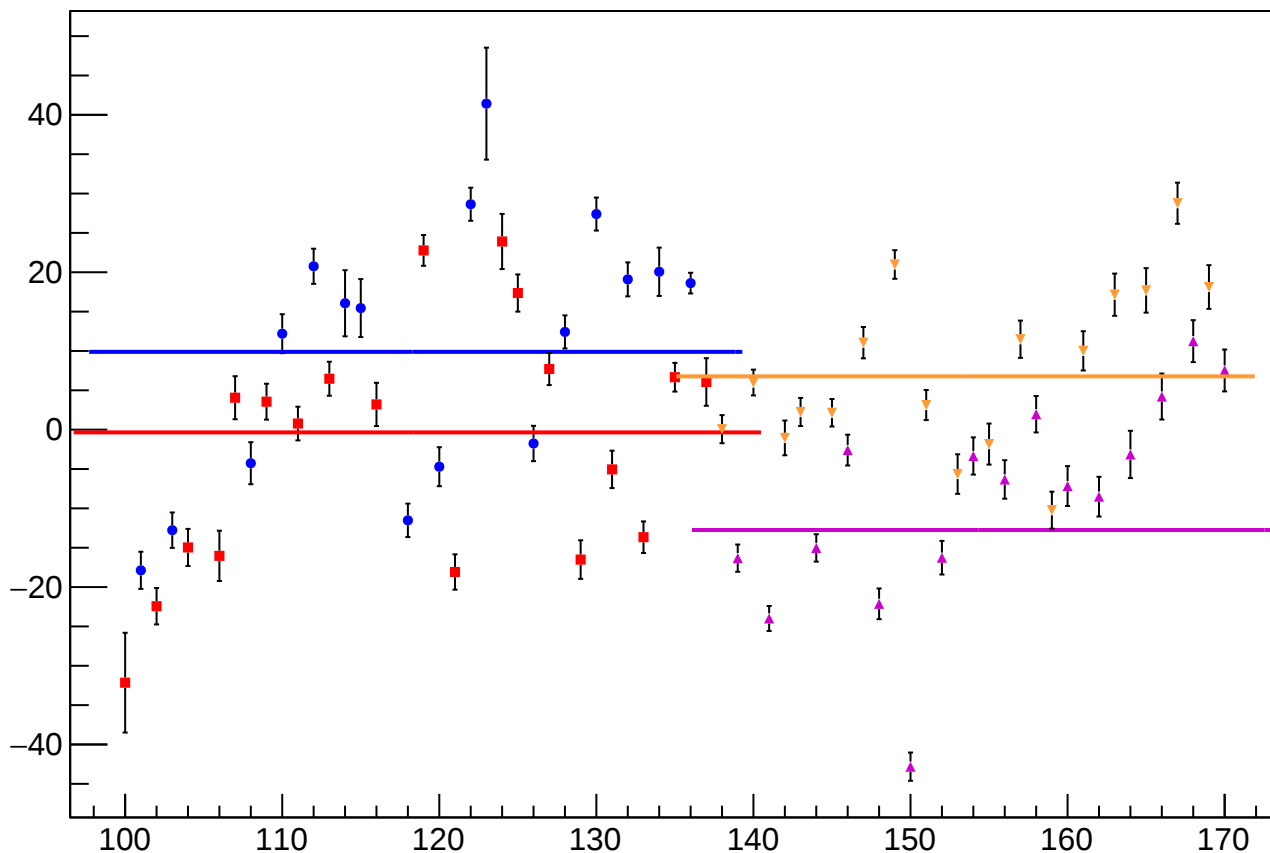
diff_bpm0l01X_rms vs Slug, Sign Corrected



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: 3232.243 $\pm$ 0.649 χ^2 /NDF:198016.1/15

Left: 3225.750 $\pm$ 0.457 χ^2 /NDF: 423050.7/32
 Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35
 In: 3184.175 $\pm$ 0.515 χ^2 /NDF:220106.7/32
 Out: 3171.148 $\pm$ 0.505 χ^2 /NDF:247434.6/35
 All: 3177.534 $\pm$ 0.360 χ^2 /NDF: 467867.6/68

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 6.772 ± 0.518 $\chi^2/\text{NDF}: 320.6/16$

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

Left In: -12.749 ± 0.537 $\chi^2/\text{NDF}: 643.7/15$

Left: -2.643 ± 0.373 $\chi^2/\text{NDF}: 1649.4/32$

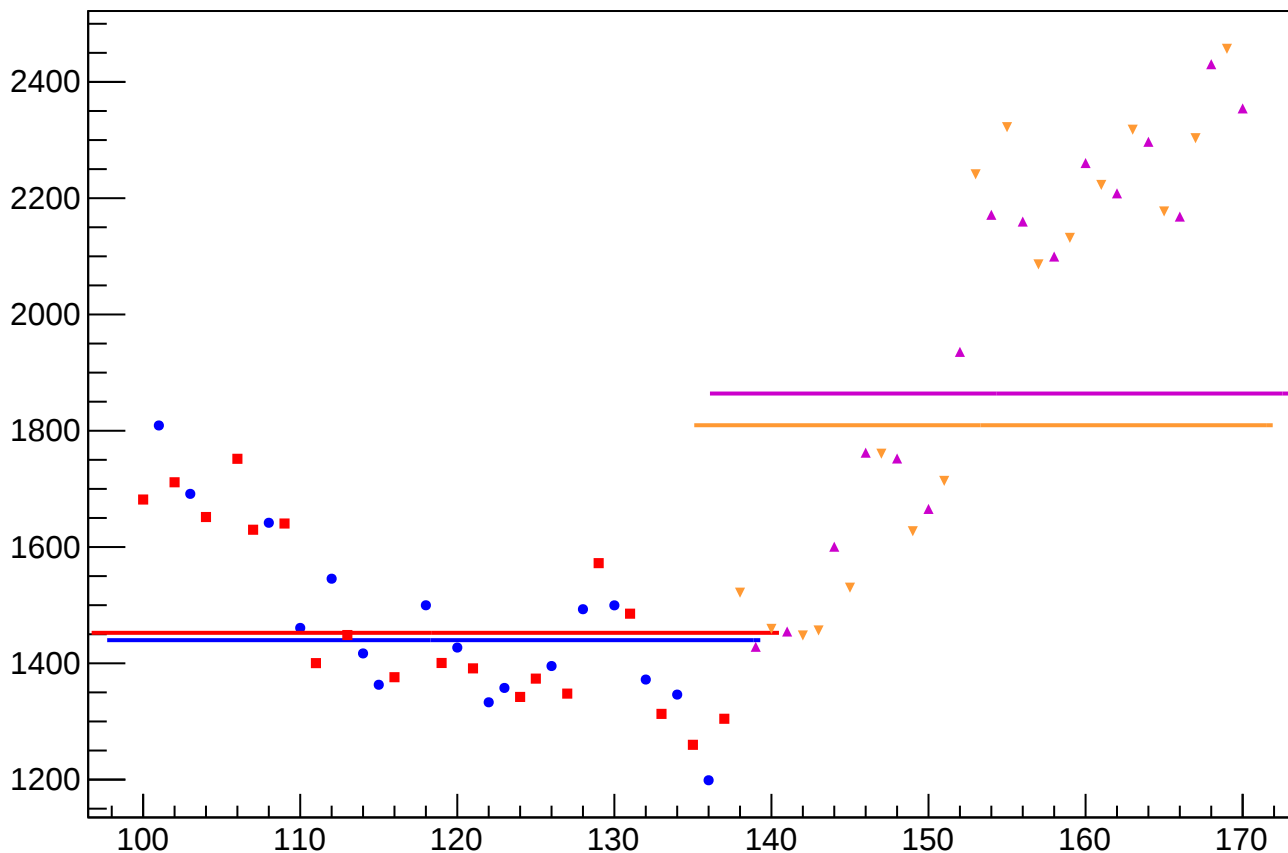
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -1.903 ± 0.387 $\chi^2/\text{NDF}: 2199.9/32$

Out: 3.406 ± 0.376 $\chi^2/\text{NDF}: 1038.7/35$

All: 0.830 ± 0.270 $\chi^2/\text{NDF}: 3335.4/68$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826 +/- 0.396 χ^2/NDF : 172823.5/16

Left Out: 1809.502 +/- 0.366 χ^2/NDF : 894754.5/16

Right Out: 1452.452 +/- 0.387 χ^2/NDF : 138519.7/18

Left In: 1864.032 +/- 0.379 χ^2/NDF : 736199.5/15

Left: 1835.802 +/- 0.264 χ^2/NDF : 1641645.2/32

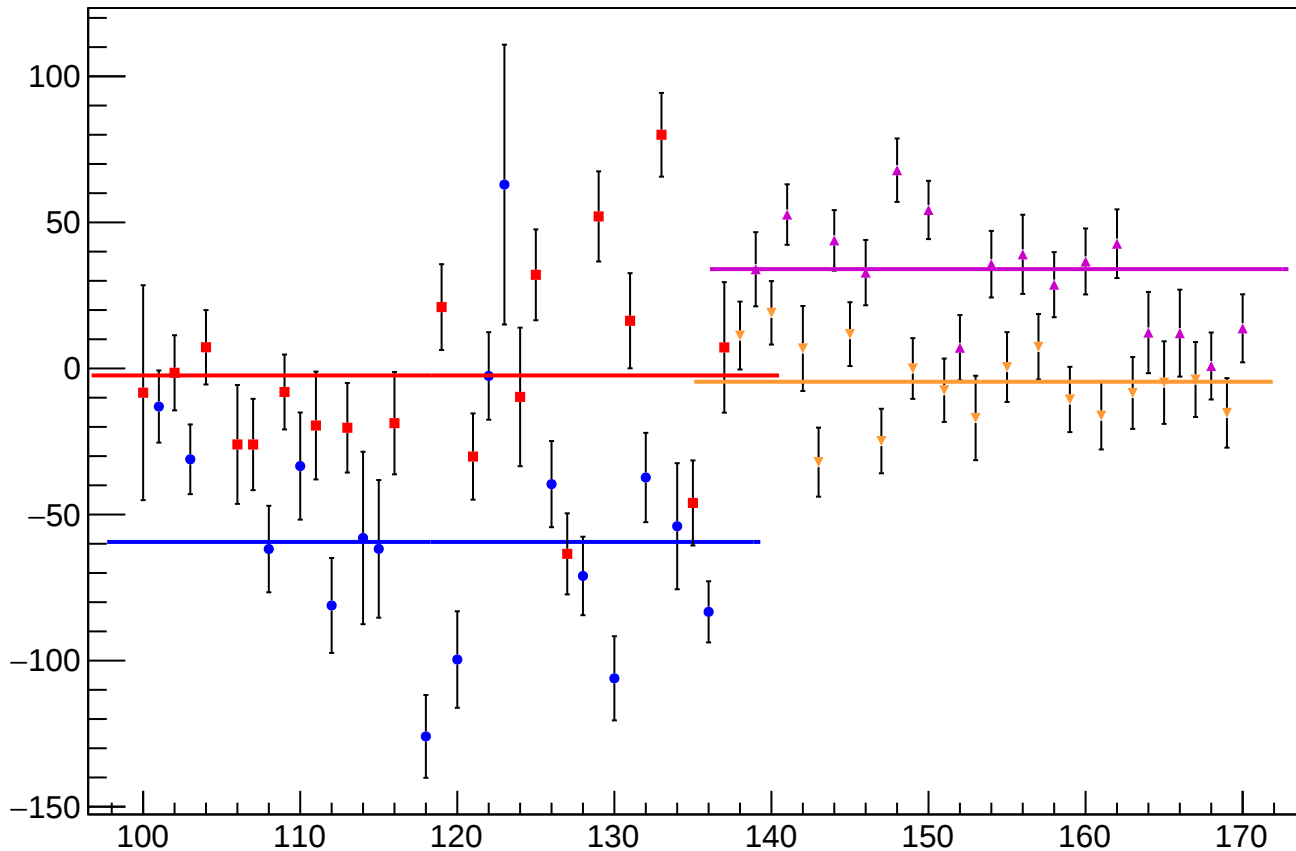
Right: 1446.283 +/- 0.277 χ^2/NDF : 311864.1/35

In: 1660.767 +/- 0.274 χ^2/NDF : 1507864.6/32

Out: 1640.667 +/- 0.266 χ^2/NDF : 1482668.8/35

All: 1650.422 +/- 0.191 χ^2/NDF : 2993306.3/68

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: 34.004 $\pm$ 2.883 χ^2/NDF : 40.8/15

Left: 14.589 $\pm$ 2.031 χ^2/NDF : 153.6/32

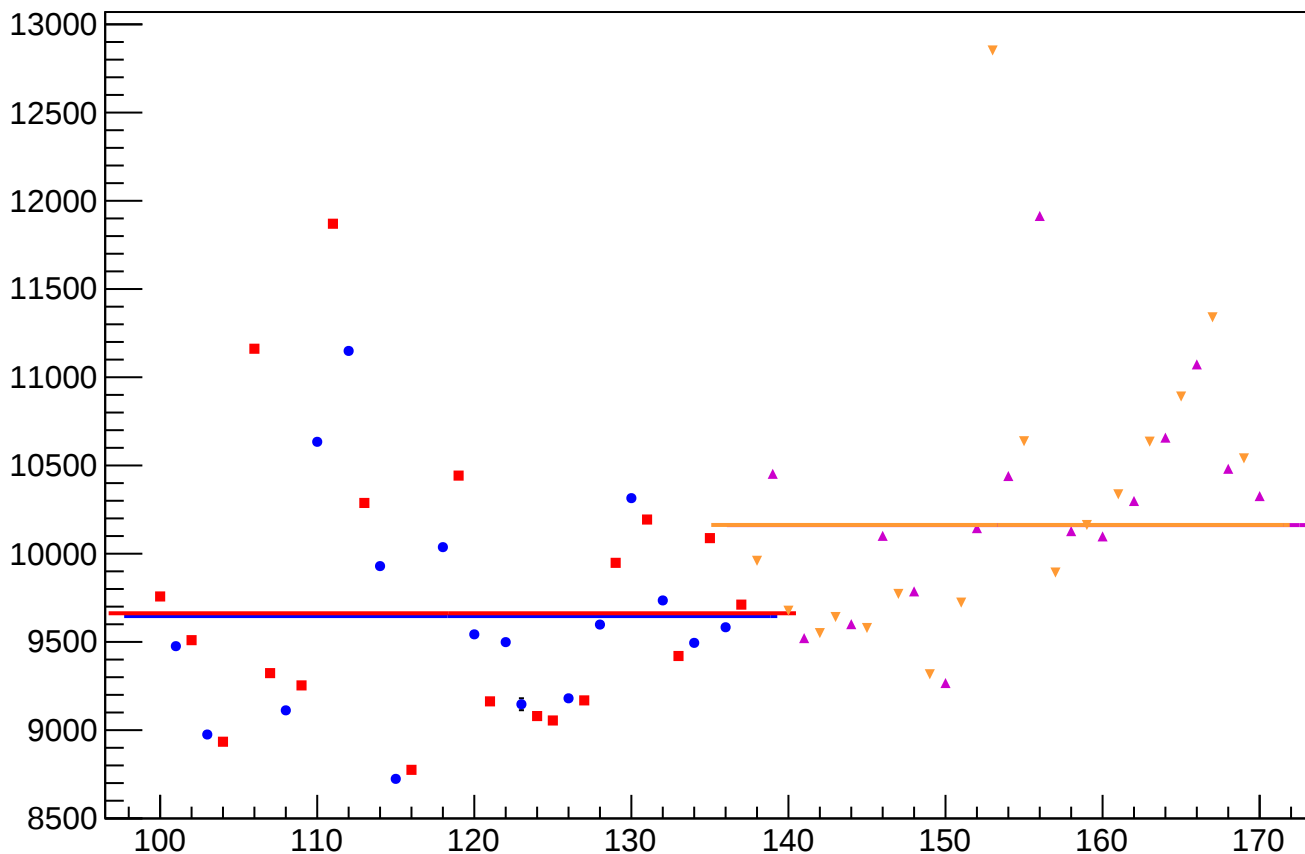
Right: -30.113 $\pm$ 2.601 χ^2/NDF : 306.8/35

In: -0.931 $\pm$ 2.281 χ^2/NDF : 526.2/32

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

All: -2.345 $\pm$ 1.601 χ^2/NDF : 643.8/68

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: 10162.064 $\pm$ 2.039 χ^2 /NDF:80066.6/15

Left: 10162.481 $\pm$ 1.436 χ^2 /NDF: 218032.3/32

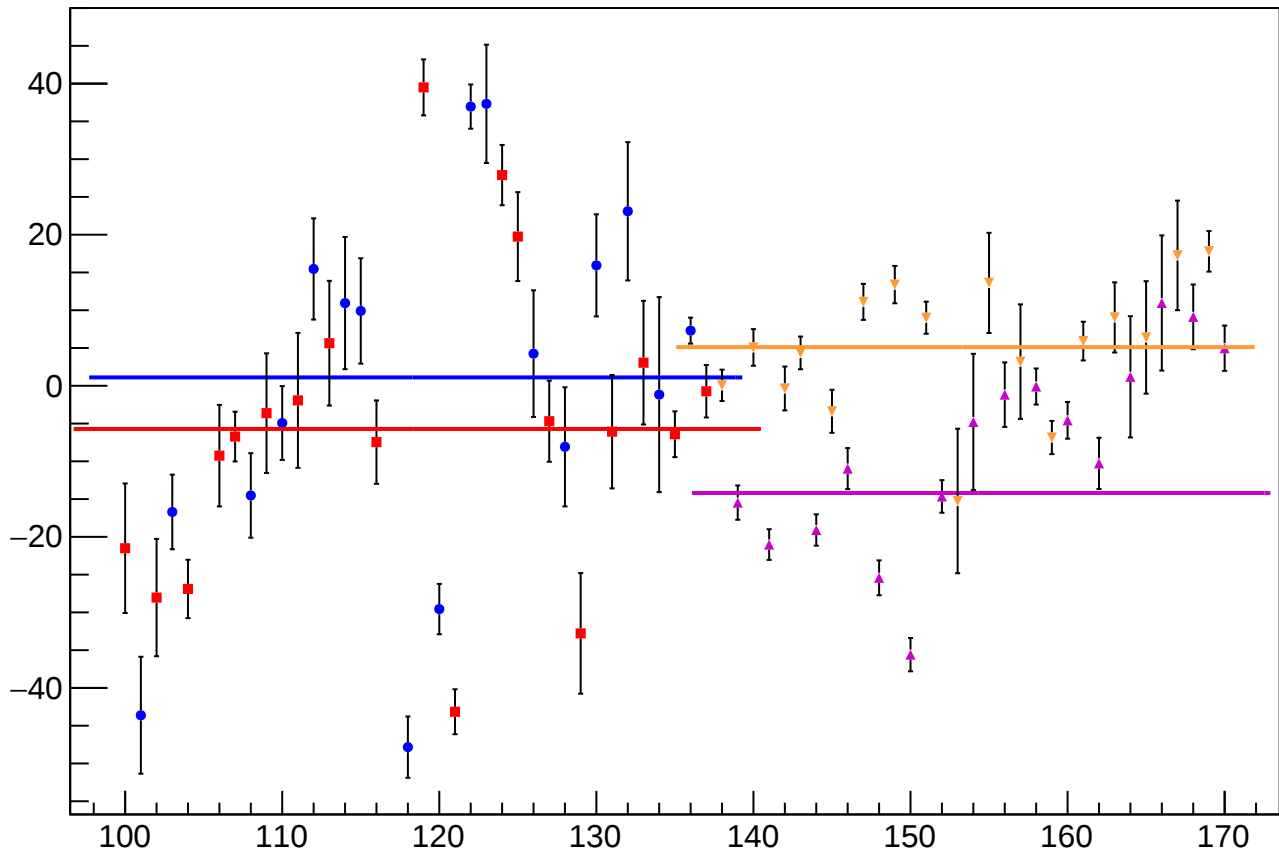
Right: 9654.635 $\pm$ 1.839 χ^2 /NDF: 121662.9/35

In: 9969.172 $\pm$ 1.613 χ^2 /NDF:148058.6/32

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

All: 9970.104 $\pm$ 1.132 χ^2 /NDF: 387061.0/68

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 5.118 ± 0.698 $\chi^2/\text{NDF}: 101.3/16$

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

Left In: -14.194 ± 0.689 $\chi^2/\text{NDF}: 280.9/15$

Left: -4.666 ± 0.490 $\chi^2/\text{NDF}: 769.7/32$

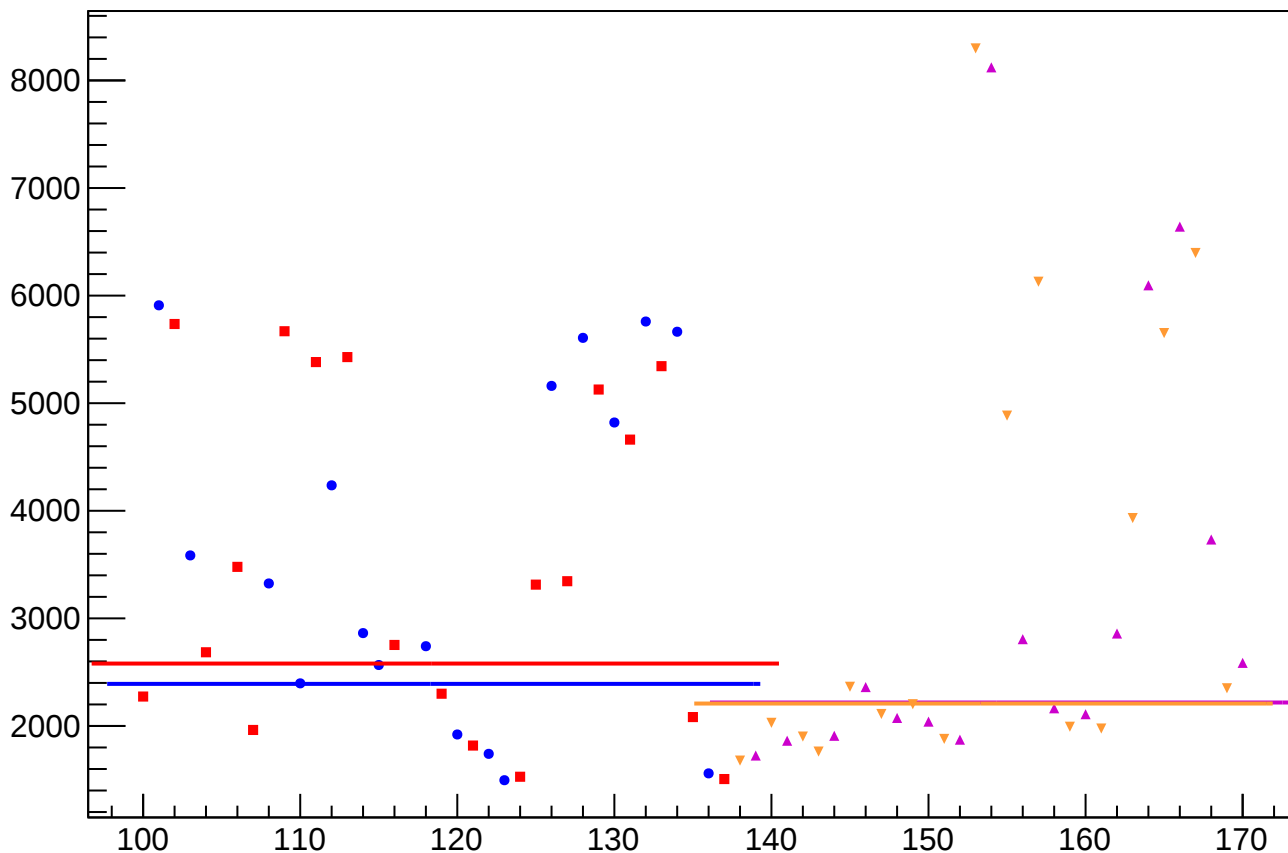
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -9.687 ± 0.579 $\chi^2/\text{NDF}: 915.8/32$

Out: 1.970 ± 0.588 $\chi^2/\text{NDF}: 627.2/35$

All: -3.952 ± 0.413 $\chi^2/\text{NDF}: 1742.5/68$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162+/-0.754 χ^2/NDF : 2600547.2/16

Left Out: 2208.462+/-0.494 χ^2/NDF : 3388841.9/16

Right Out: 2580.040+/-0.772 χ^2/NDF : 2365271.4/18

Left In: 2218.030+/-0.487 χ^2/NDF : 2486536.9/15

Left: 2213.309+/-0.347 χ^2/NDF : 5875569.1/32

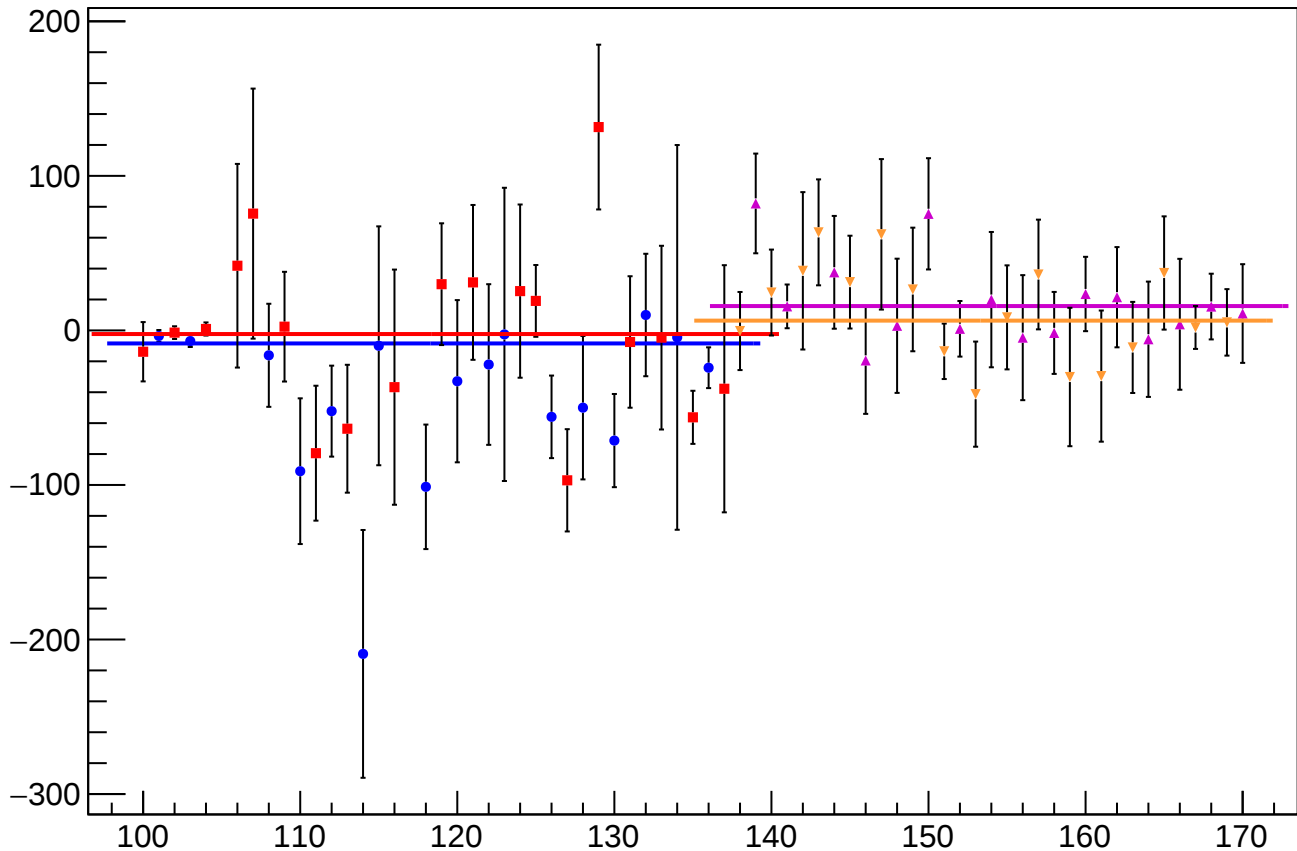
Right: 2483.443+/-0.539 χ^2/NDF : 4996468.7/35

In: 2269.023+/-0.409 χ^2/NDF : 5124269.4/32

Out: 2316.421+/-0.416 χ^2/NDF : 5918669.6/35

All: 2292.342+/-0.292 χ^2/NDF : 11049538.1/6

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.335 ± 6.711 χ^2/NDF : 12.4/16

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

Left In: 15.756 ± 6.798 χ^2/NDF : 10.4/15

Left: 10.985 ± 4.776 χ^2/NDF : 23.7/32

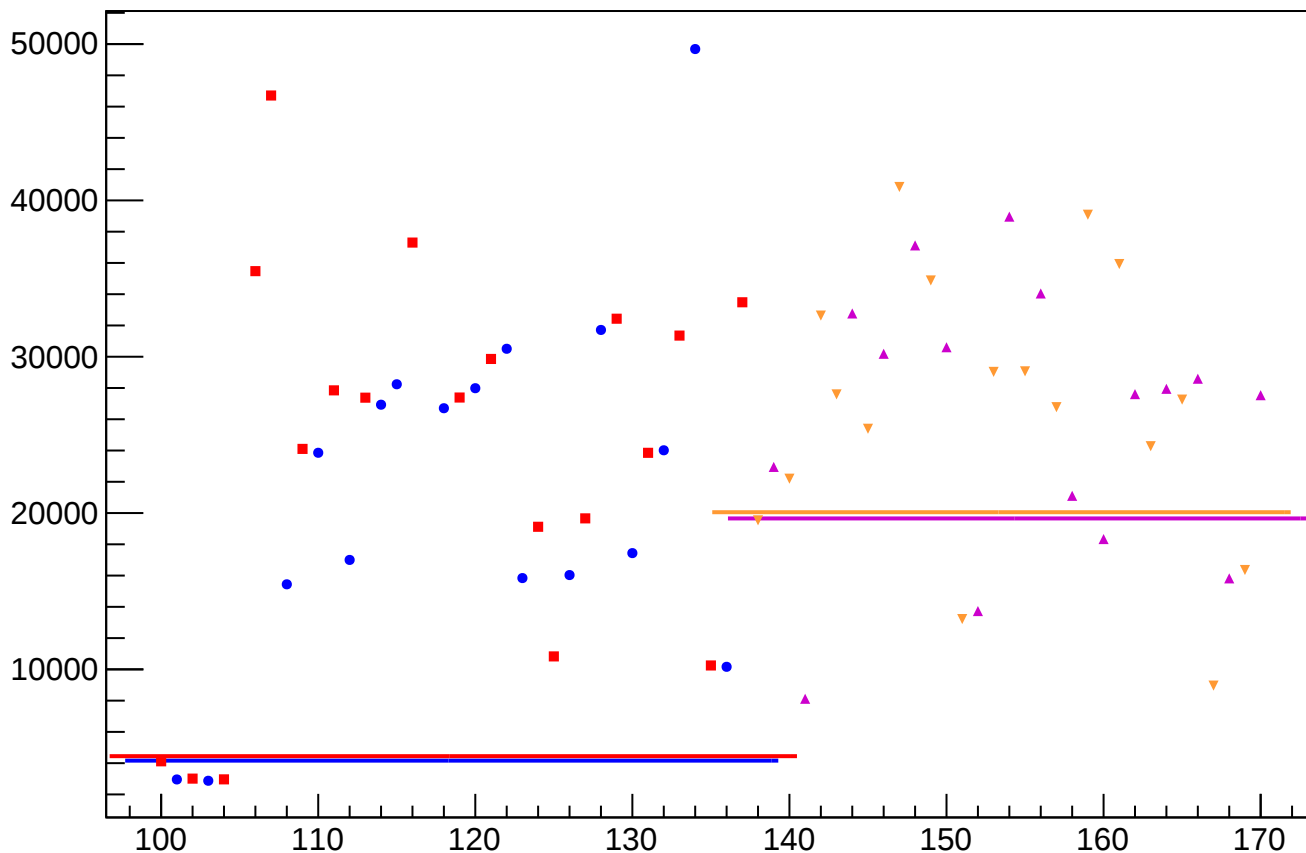
Right: -5.615 ± 1.896 χ^2/NDF : 66.1/35

In: -5.369 ± 2.418 χ^2/NDF : 50.3/32

Out: -1.071 ± 2.574 χ^2/NDF : 48.5/35

All: -3.354 ± 1.762 χ^2/NDF : 100.3/68

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: 19655.130+/-4.807 χ^2/NDF : 3669683.2/15

Left: 19856.839+/-3.377 χ^2/NDF : 7348615.5/32

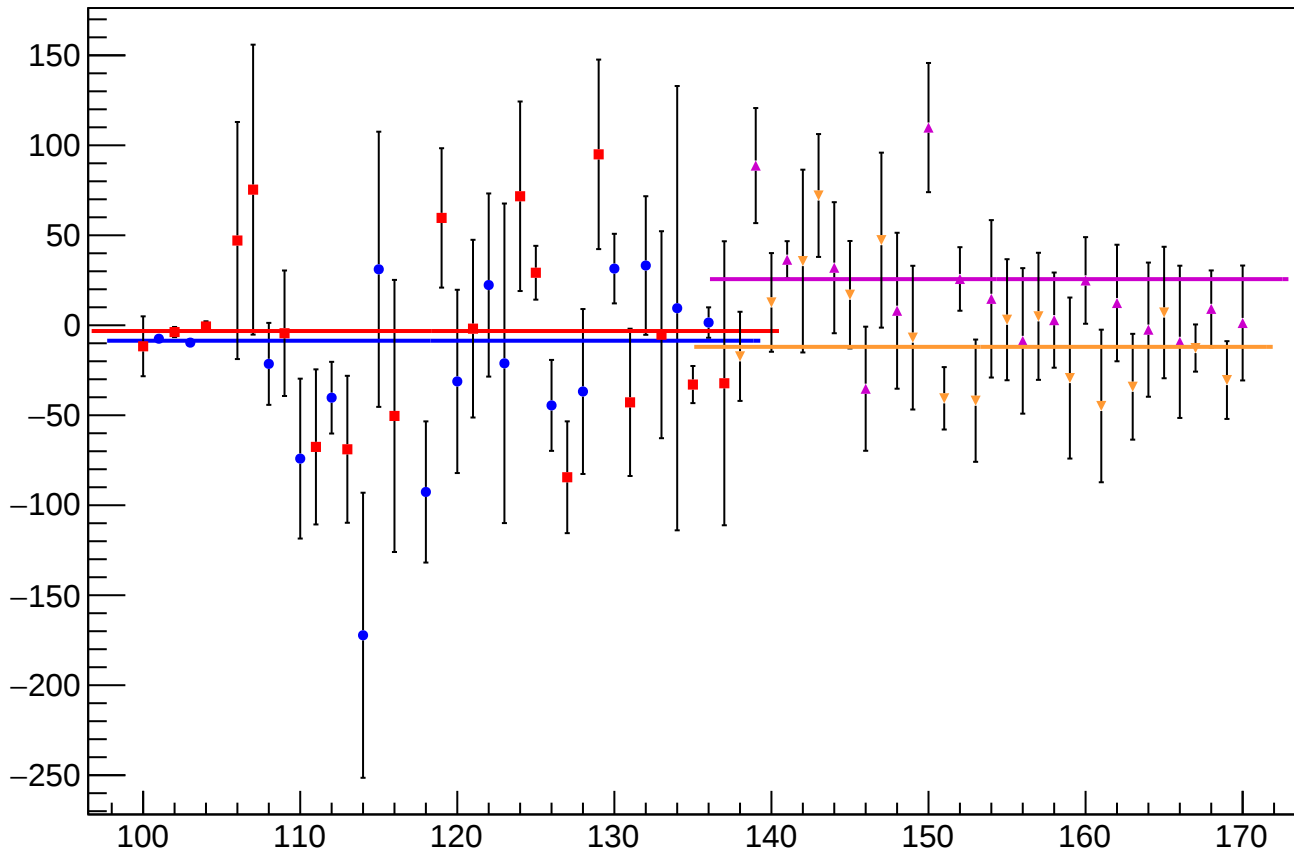
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 6122.916+/-1.710 χ^2/NDF : 18734066.9/32

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

All: 6413.359+/-1.246 χ^2/NDF : 39122440.2/6

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: 25.639 $\pm$ 6.179 χ^2/NDF : 17.9/15

Left: 7.973 $\pm$ 4.500 χ^2/NDF : 51.8/32

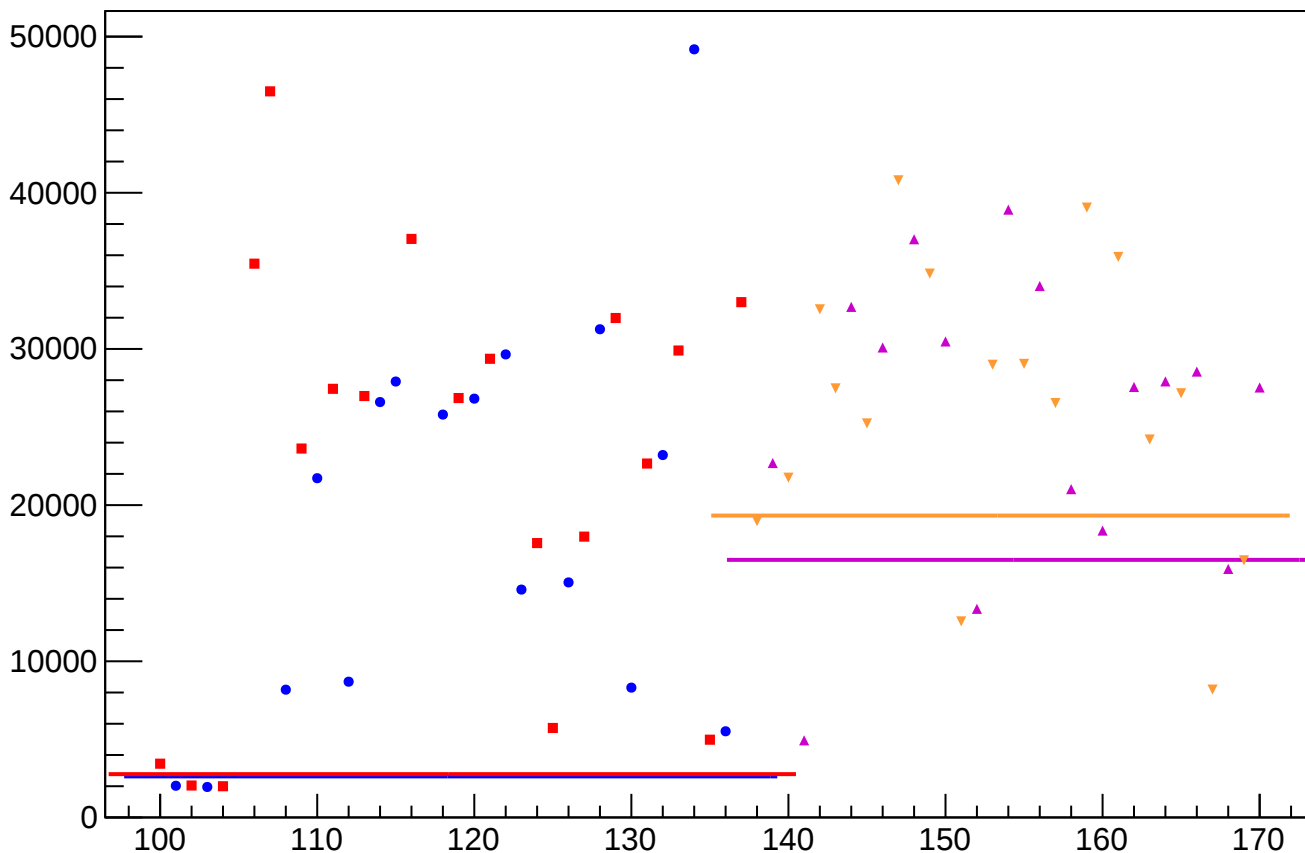
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -5.970 $\pm$ 1.708 χ^2/NDF : 70.7/32

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

All: -5.009 $\pm$ 1.254 χ^2/NDF : 126.4/68

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19330.571 ± 4.644 $\chi^2/\text{NDF}: 4072091.4/16$

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

Left In: 16494.402 ± 4.369 $\chi^2/\text{NDF}: 5908208.5/15$

Left: 17825.892 ± 3.182 $\chi^2/\text{NDF}: 10178136.2/32$

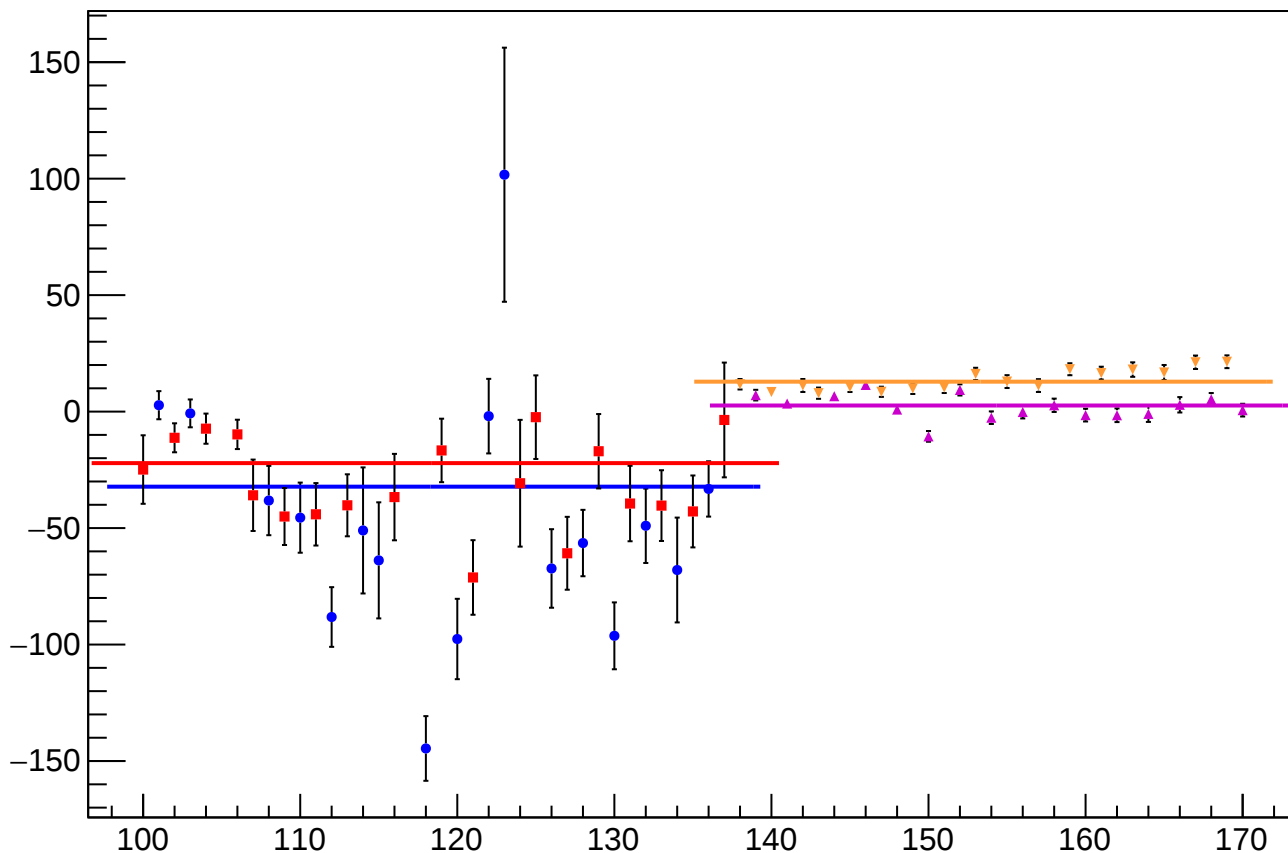
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3690.509 ± 1.208 $\chi^2/\text{NDF}: 20796739.7/32$

Out: 4079.647 ± 1.305 $\chi^2/\text{NDF}: 23614036.0/35$

All: 3870.161 ± 0.886 $\chi^2/\text{NDF}: 44458678.7/6$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 12.850 ± 0.617 χ^2/NDF : 47.0/16

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

Left In: 2.618 ± 0.627 χ^2/NDF : 78.7/15

Left: 7.822 ± 0.440 χ^2/NDF : 260.9/32

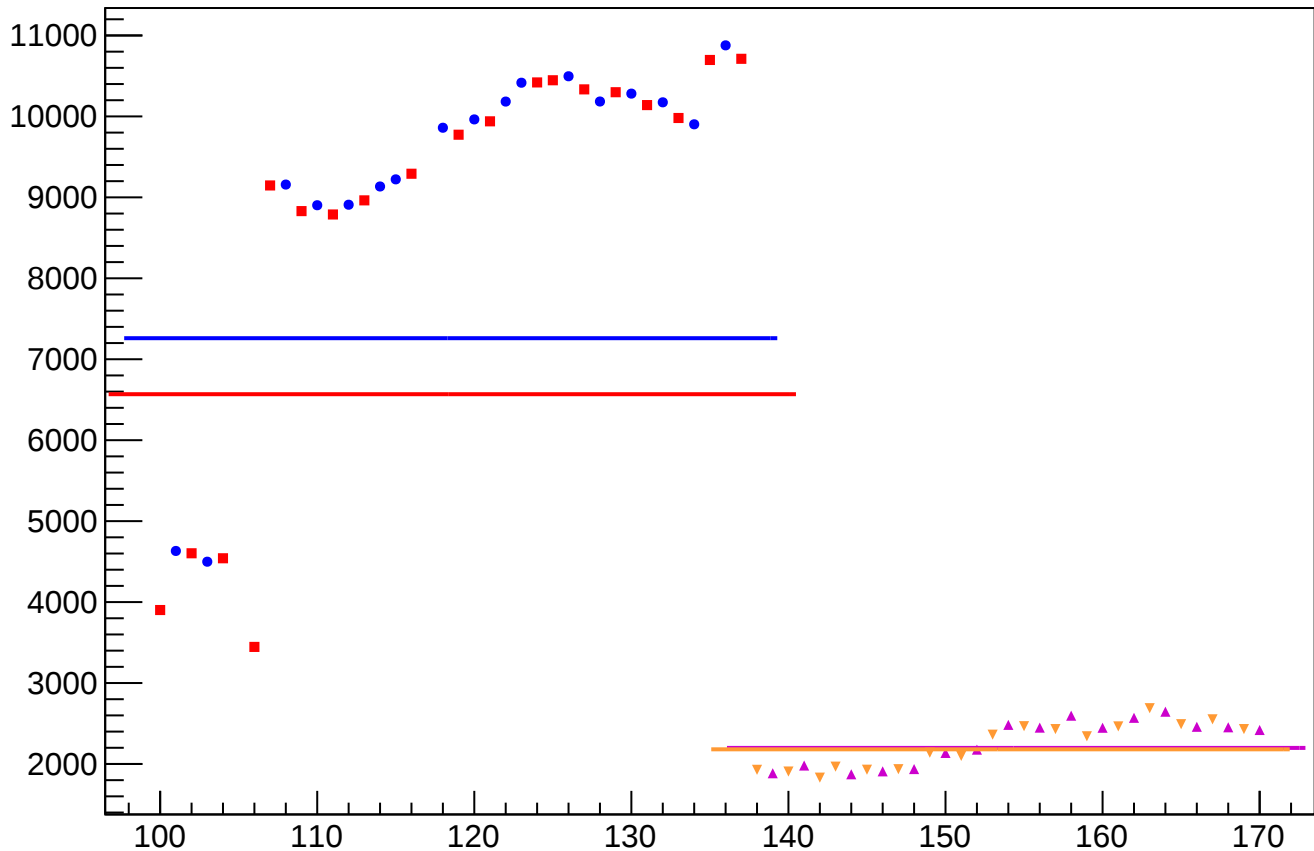
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.141 ± 0.614 χ^2/NDF : 413.1/32

Out: 11.078 ± 0.601 χ^2/NDF : 253.5/35

All: 6.216 ± 0.429 χ^2/NDF : 800.4/68

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2180.968 $\pm$ 0.436 χ^2 /NDF: 357219.9/16

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

Left In: 2198.426 $\pm$ 0.444 χ^2 /NDF: 381410.1/15

Left: 2189.548 $\pm$ 0.311 χ^2 /NDF: 739417.6/32

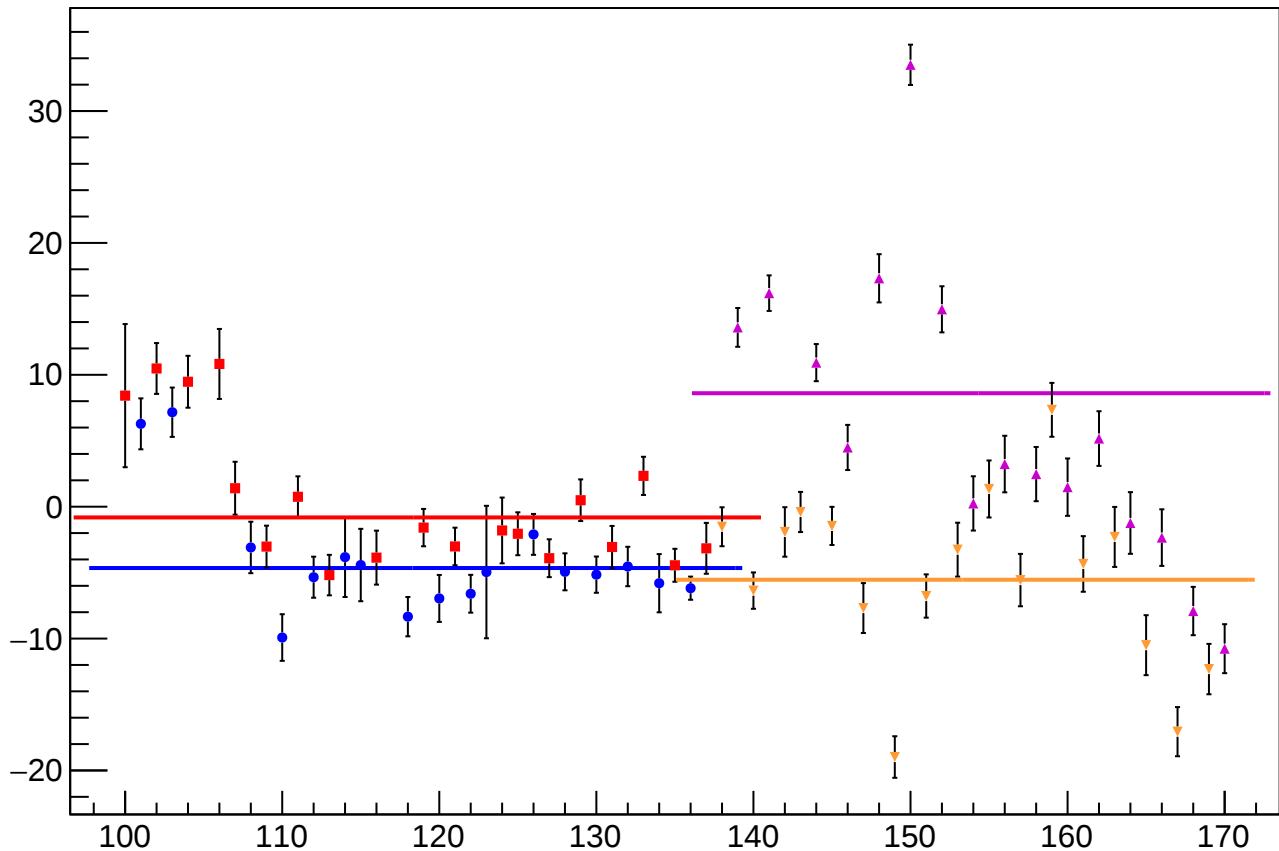
Right: 6876.033 $\pm$ 1.406 χ^2 /NDF: 3892707.9/35

In: 2413.093 $\pm$ 0.434 χ^2 /NDF: 7537977.6/32

Out: 2403.316 $\pm$ 0.425 χ^2 /NDF: 7682649.8/35

All: 2408.099 $\pm$ 0.304 χ^2 /NDF: 15220886.4/6

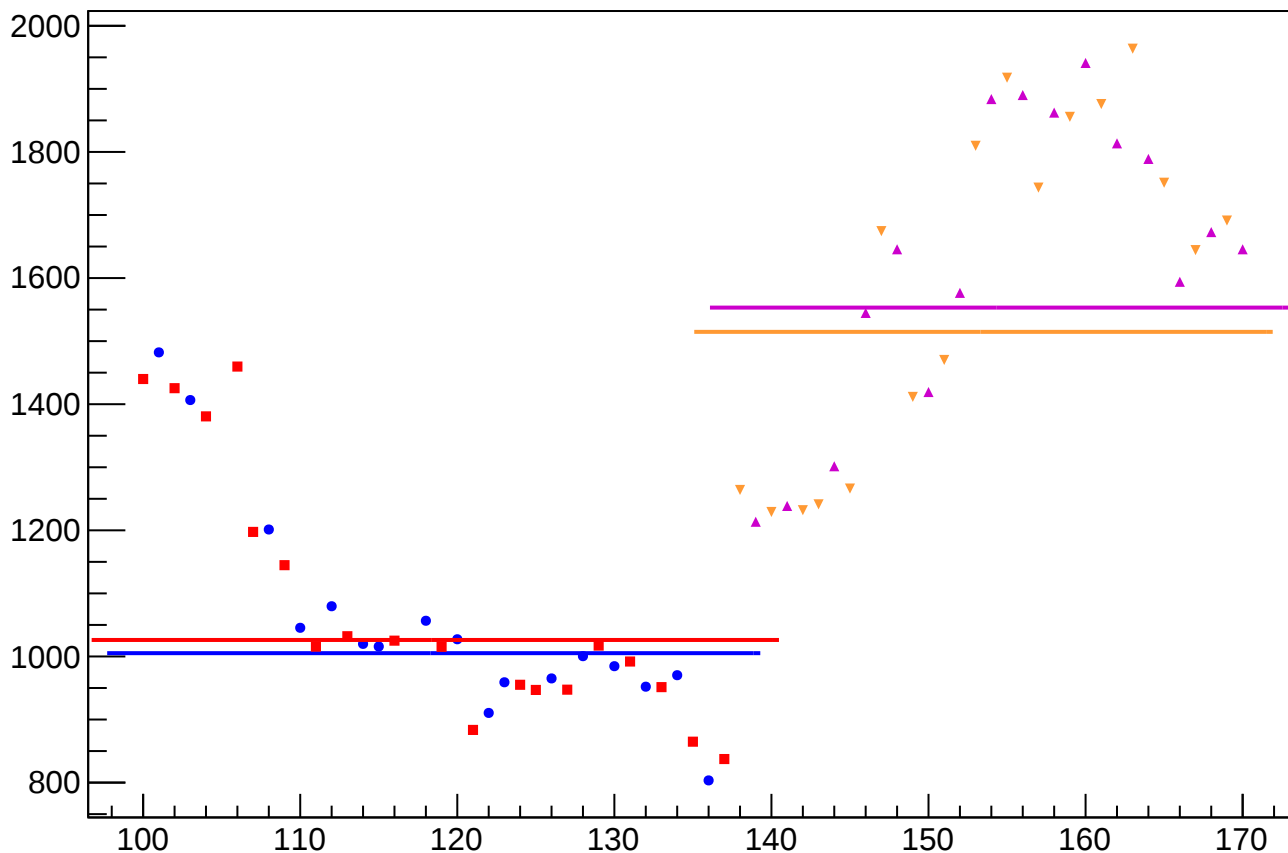
diff_bpm0l04Y_mean vs Slug, Sign Corrected



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: 8.604 ± 0.446 $\chi^2/\text{NDF}: 632.5/15$

Left: 1.317 ± 0.310 $\chi^2/\text{NDF}: 1366.0/32$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 1.142 ± 0.295 $\chi^2/\text{NDF}: 1228.1/32$
 Out: -2.926 ± 0.289 $\chi^2/\text{NDF}: 404.3/35$
 All: -0.931 ± 0.206 $\chi^2/\text{NDF}: 1729.6/68$

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: 1553.172+/-0.315 χ^2/NDF : 576179.5/15

Left: 1533.355+/-0.219 χ^2/NDF : 1299197.5/32

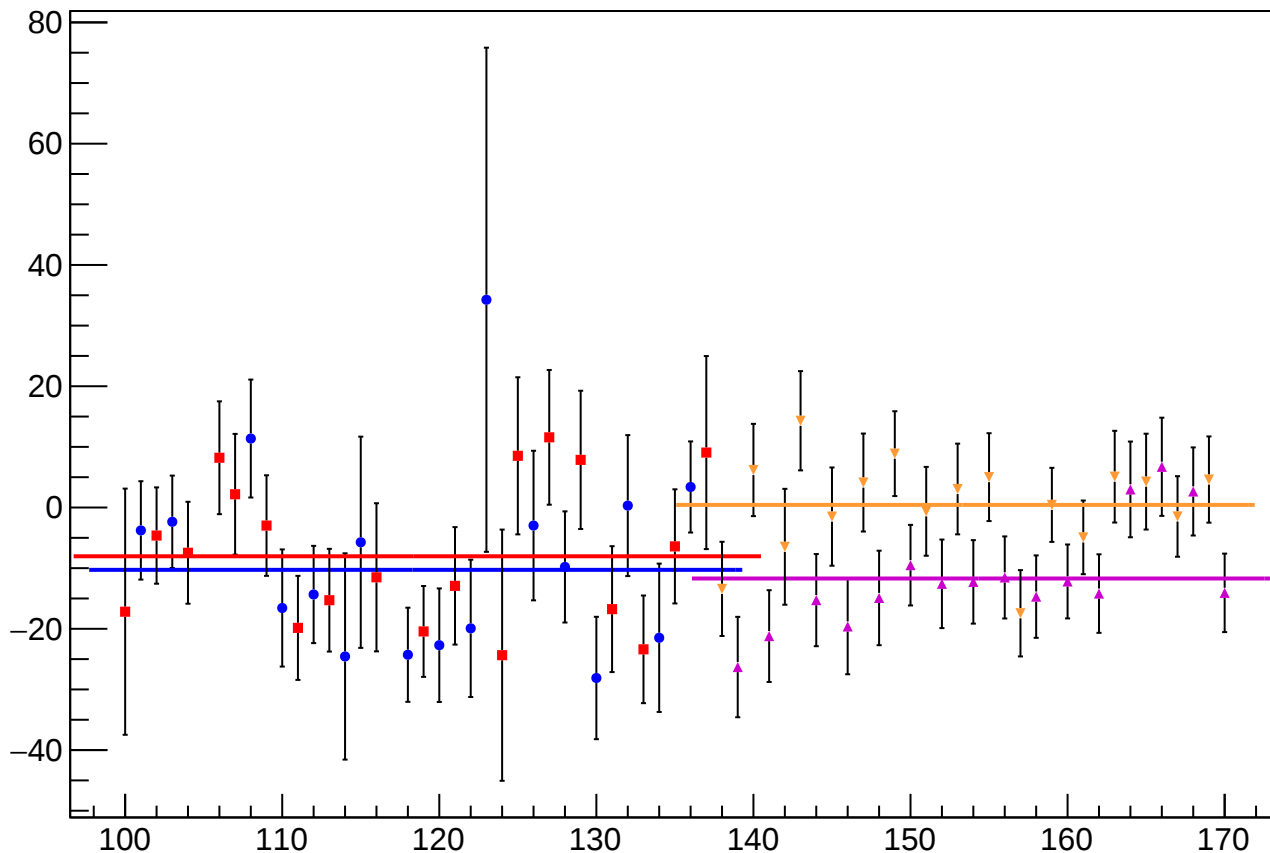
Right: 1015.803+/-0.195 χ^2/NDF : 697945.4/35

In: 1244.688+/-0.208 χ^2/NDF : 2640460.7/32

Out: 1244.485+/-0.204 χ^2/NDF : 2461875.4/35

All: 1244.585+/-0.146 χ^2/NDF : 5102336.5/68

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: -11.705 ± 1.788 $\chi^2/\text{NDF}: 19.2/15$

Left: -5.607 ± 1.261 $\chi^2/\text{NDF}: 59.9/32$

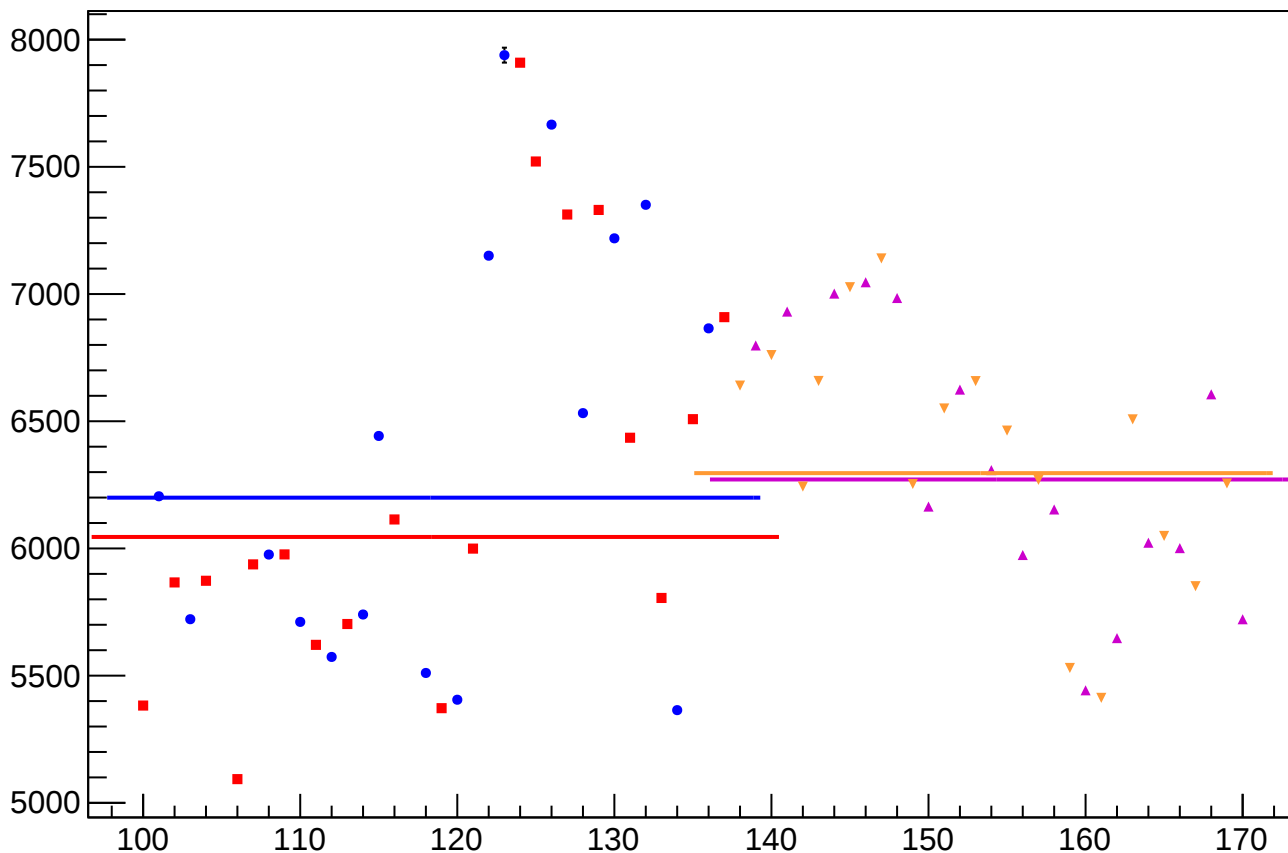
Right: -9.097 ± 1.655 $\chi^2/\text{NDF}: 46.7/35$

In: -11.198 ± 1.435 $\chi^2/\text{NDF}: 42.9/32$

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

All: -6.889 ± 1.003 $\chi^2/\text{NDF}: 109.5/68$

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: 6271.054 $\pm$ 1.264 χ^2 /NDF:166002.4/15

Left: 6283.614 $\pm$ 0.892 χ^2 /NDF: 314182.2/32

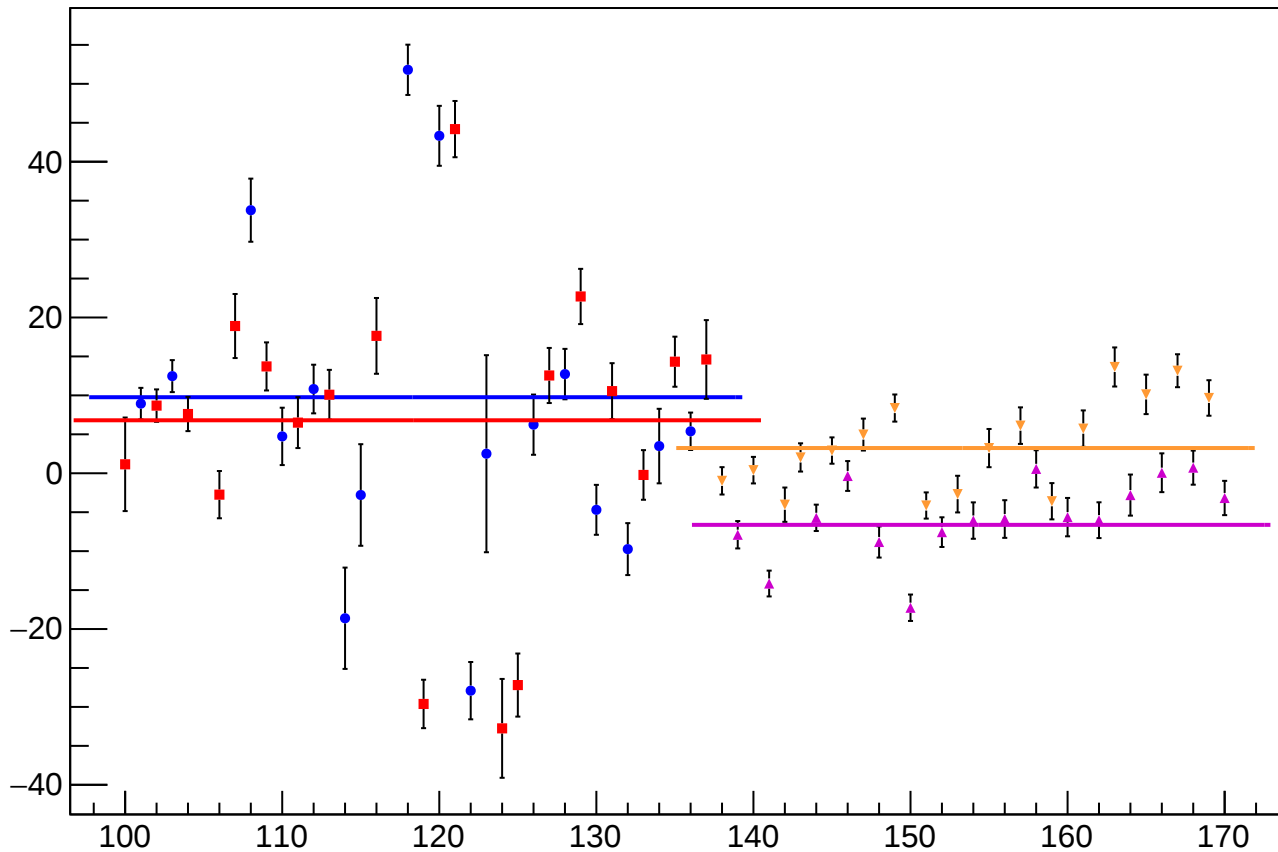
Right: 6118.133 $\pm$ 1.170 χ^2 /NDF: 334424.9/35

In: 6245.666 $\pm$ 1.015 χ^2 /NDF:338897.6/32

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

All: 6222.823 $\pm$ 0.709 χ^2 /NDF: 661257.9/68

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: -6.625 $\pm$ 0.514 χ^2/NDF :105.4/15

Left: -1.511 $\pm$ 0.357 χ^2/NDF : 417.1/32

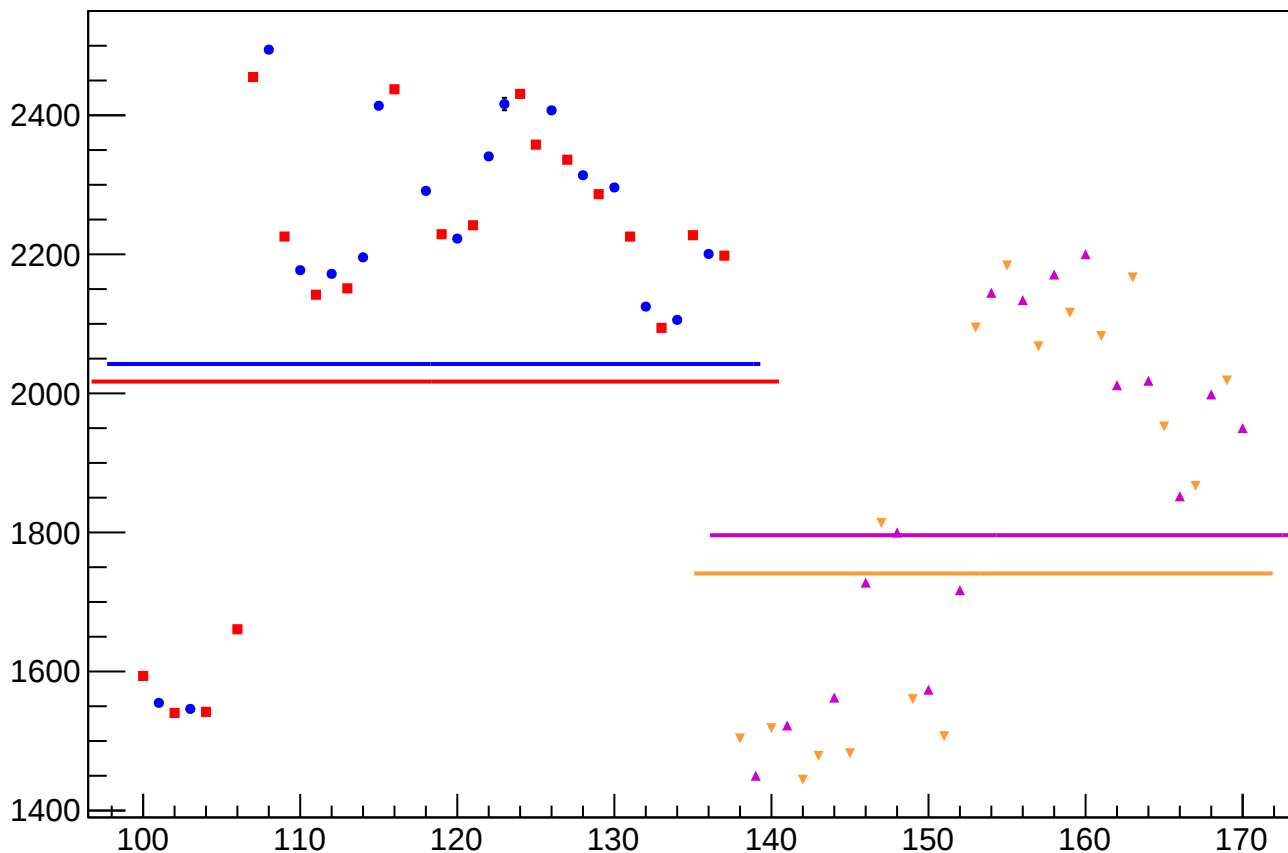
Right: 8.222 $\pm$ 0.552 χ^2/NDF : 902.8/35

In: -1.810 $\pm$ 0.432 χ^2/NDF :878.0/32

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

All: 1.357 $\pm$ 0.300 χ^2/NDF : 1539.3/68

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1741.026+/-0.350 χ^2/NDF : 610192.0/16

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

Left In: 1796.051+/-0.363 χ^2/NDF : 456713.1/15

Left: 1767.524+/-0.252 χ^2/NDF : 1078789.5/32

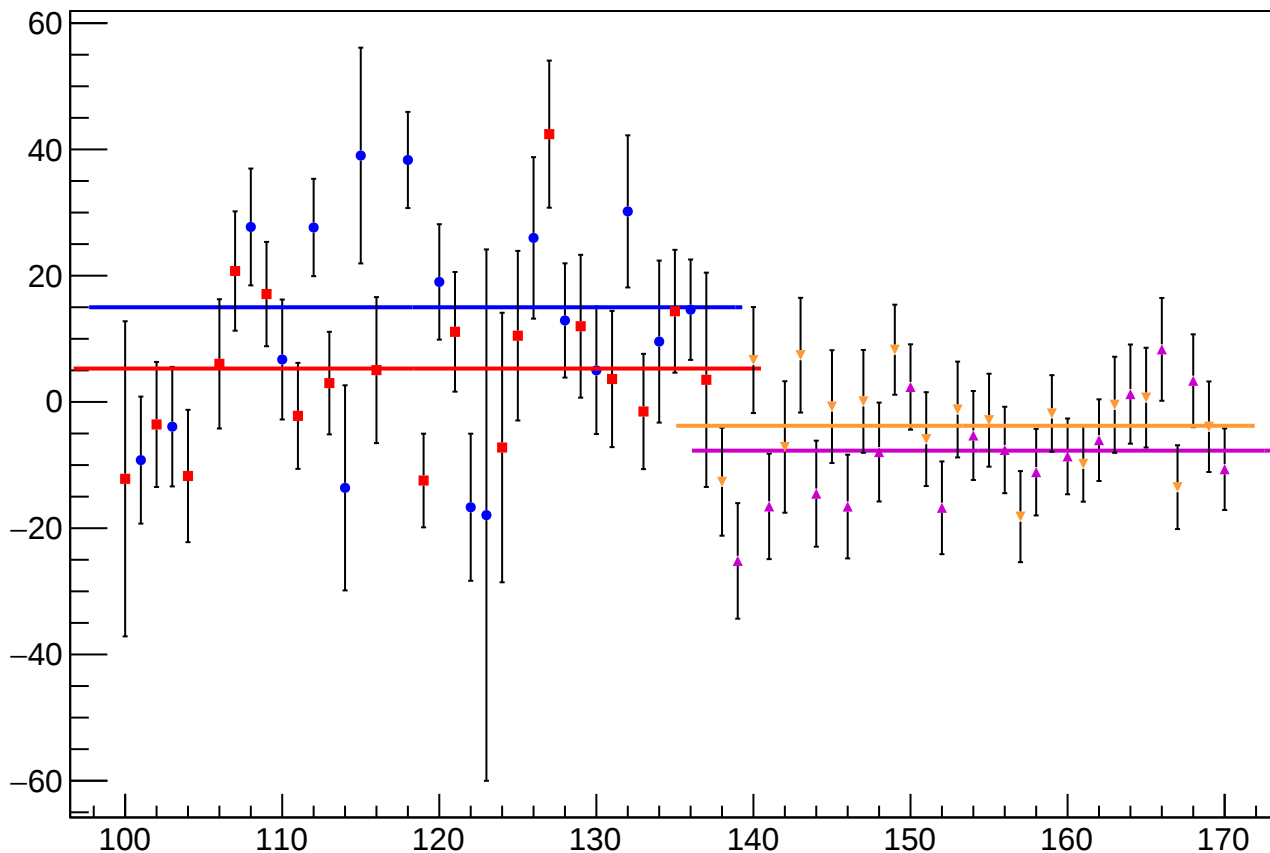
Right: 2029.129+/-0.390 χ^2/NDF : 733495.1/35

In: 1868.391+/-0.305 χ^2/NDF : 948381.7/32

Out: 1822.596+/-0.294 χ^2/NDF : 1169327.9/35

All: 1844.621+/-0.212 χ^2/NDF : 2129379.6/68

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: -7.712 ± 1.825 $\chi^2/\text{NDF}: 18.4/15$

Left: -5.744 ± 1.291 $\chi^2/\text{NDF}: 36.2/32$

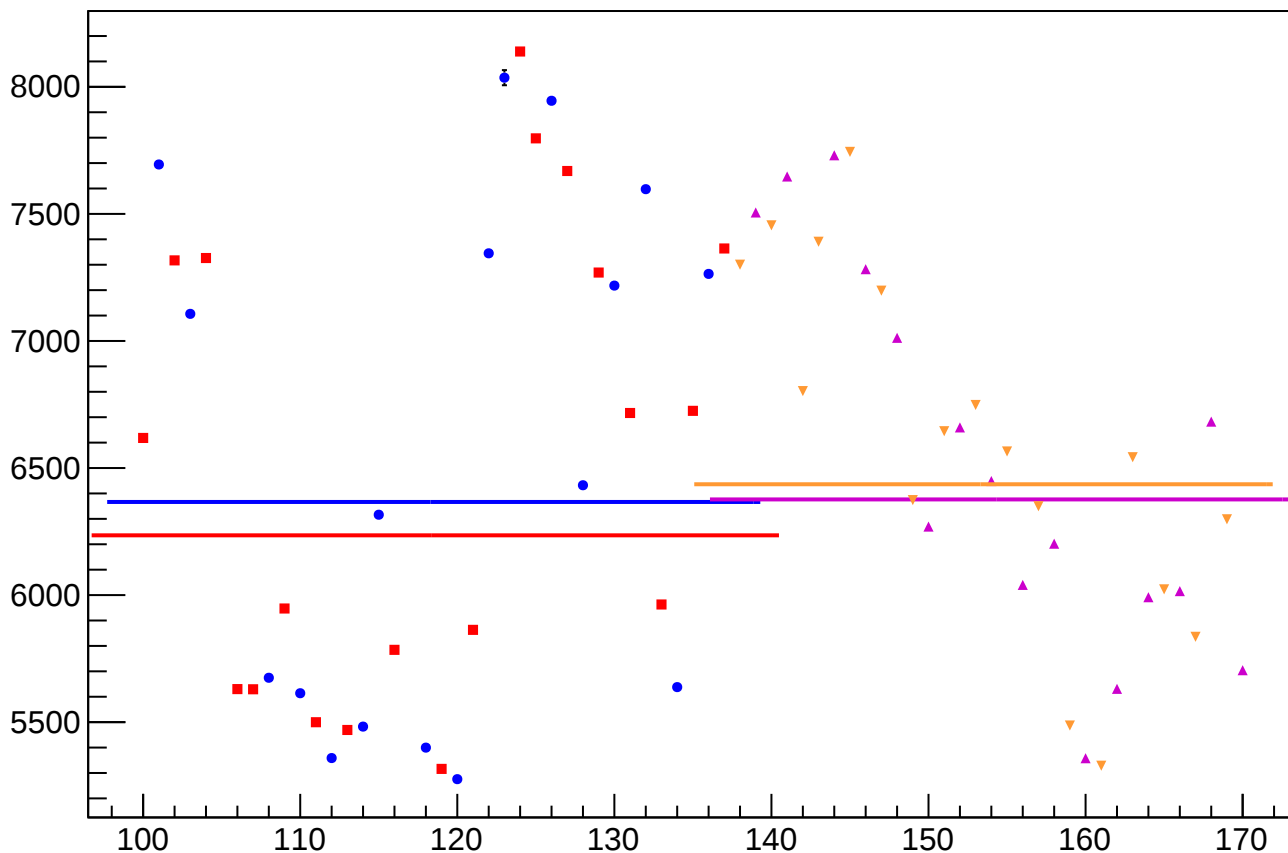
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: 0.245 ± 1.471 $\chi^2/\text{NDF}: 114.0/32$

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

All: -0.072 ± 1.030 $\chi^2/\text{NDF}: 166.8/68$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491+/-1.757 χ^2/NDF : 286494.5/16

Left Out: 6436.153+/-1.291 χ^2/NDF : 281182.8/16

Right Out: 6235.179+/-1.667 χ^2/NDF : 243204.0/18

Left In: 6376.463+/-1.291 χ^2/NDF : 294041.8/15

Left: 6406.308+/-0.913 χ^2/NDF : 576293.9/32

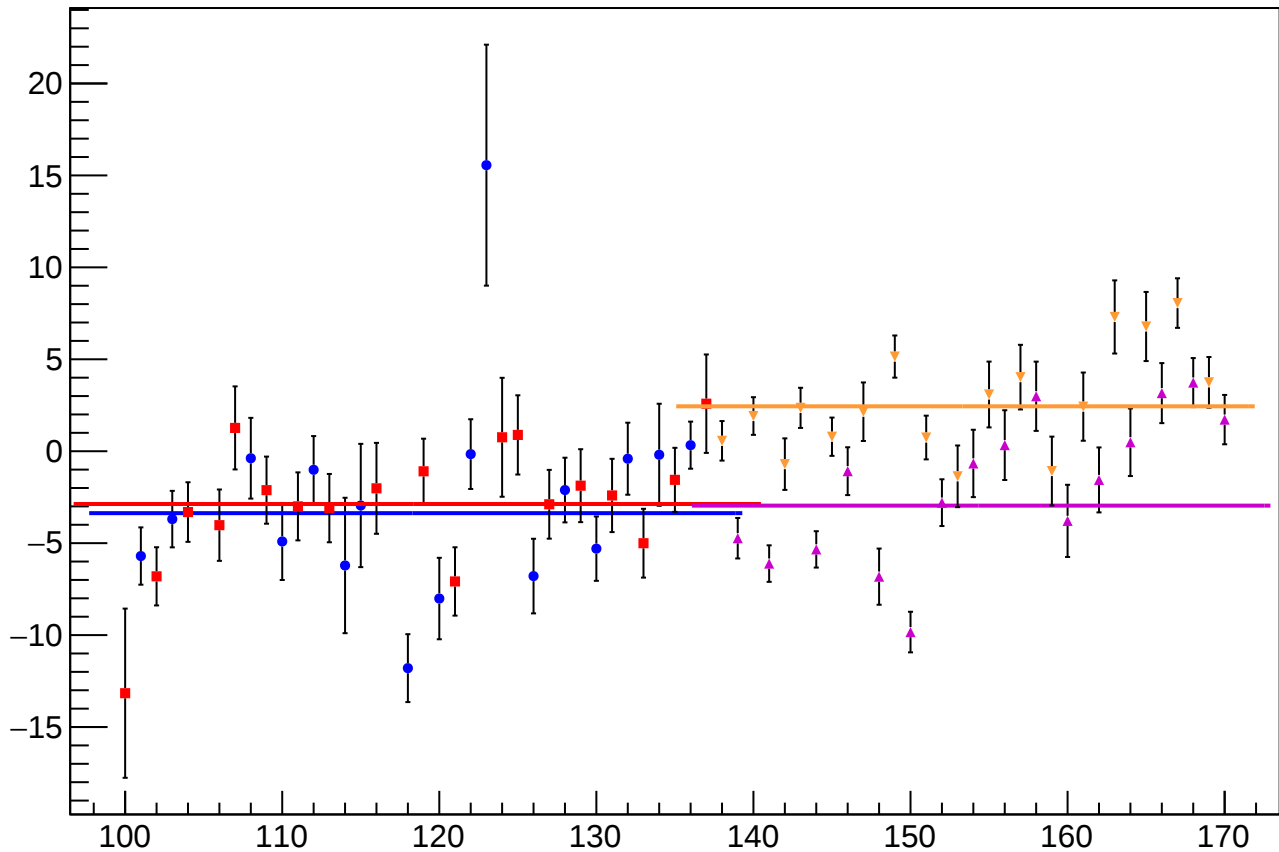
Right: 6297.369+/-1.209 χ^2/NDF : 532637.5/35

In: 6372.969+/-1.040 χ^2/NDF : 580557.3/32

Out: 6360.819+/-1.021 χ^2/NDF : 533474.1/35

All: 6366.778+/-0.729 χ^2/NDF : 1114100.9/68

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 2.443 $\pm$ 0.331 χ^2/NDF : 57.7/16

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

Left In: -2.958 $\pm$ 0.342 χ^2/NDF : 136.0/15

Left: -0.168 $\pm$ 0.238 χ^2/NDF : 322.5/32

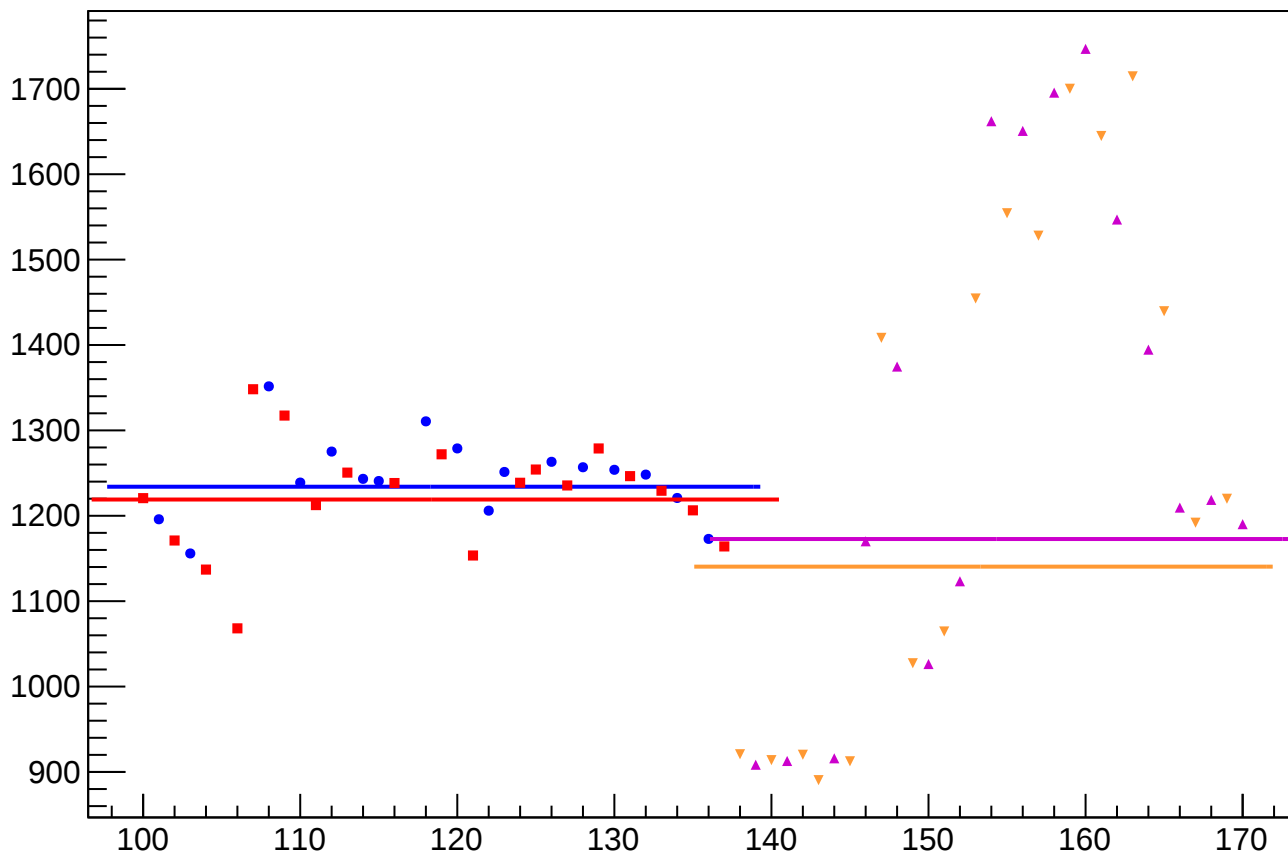
Right: -3.109 $\pm$ 0.329 χ^2/NDF : 92.5/35

In: -3.098 $\pm$ 0.278 χ^2/NDF : 196.4/32

Out: 0.612 $\pm$ 0.268 χ^2/NDF : 178.6/35

All: -1.177 $\pm$ 0.193 χ^2/NDF : 467.4/68

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

Left Out: 1140.441 ± 0.234 $\chi^2/\text{NDF}: 1343674.9/16$

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

Left In: 1172.775 ± 0.242 $\chi^2/\text{NDF}: 1177654.3/15$

Left: 1156.072 ± 0.168 $\chi^2/\text{NDF}: 2530561.5/32$

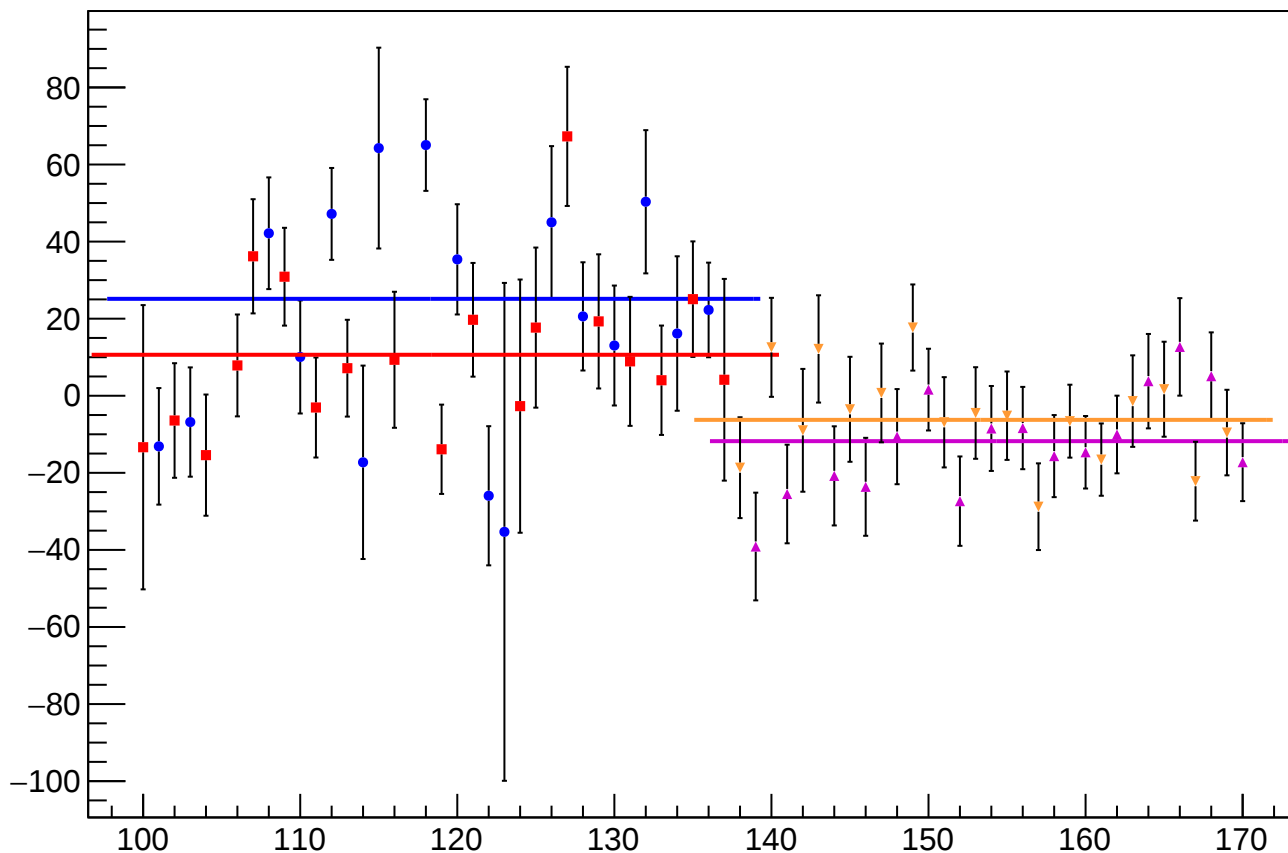
Right: 1226.229 ± 0.233 $\chi^2/\text{NDF}: 64970.2/35$

In: 1193.663 ± 0.196 $\chi^2/\text{NDF}: 1223091.3/32$

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

All: 1180.124 ± 0.136 $\chi^2/\text{NDF}: 2655197.5/68$

diff_bpm0l07X_mean vs Slug, Sign Corrected



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

Left Out: -6.256 $\pm$ 2.837 χ^2/NDF :18.1/16

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

Left In: -11.781 $\pm$ 2.842 χ^2/NDF :18.0/15

Left: -9.013 $\pm$ 2.008 χ^2/NDF : 38.0/32

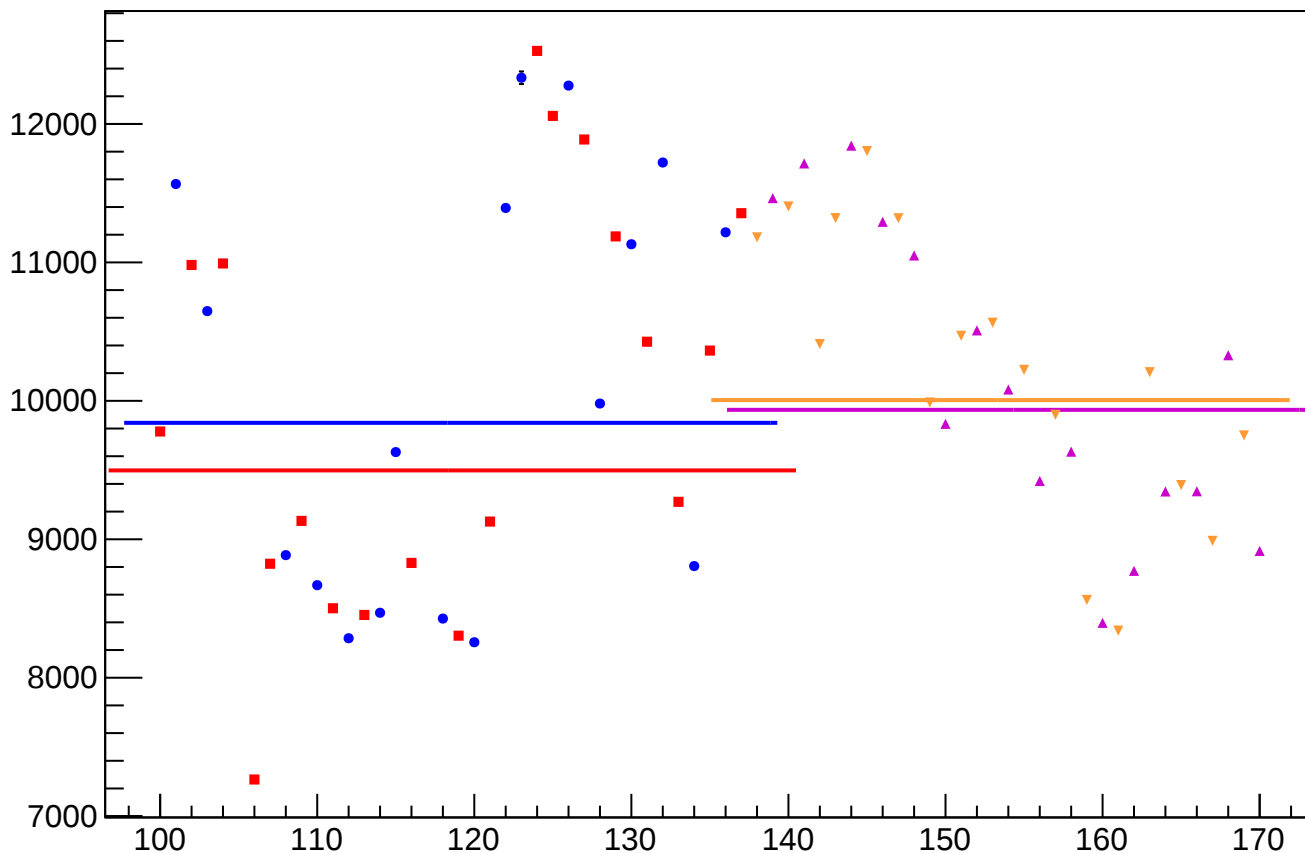
Right: 17.418 $\pm$ 2.623 χ^2/NDF : 82.3/35

In: 1.303 $\pm$ 2.284 χ^2/NDF :124.8/32

Out: 0.226 $\pm$ 2.227 χ^2/NDF :59.4/35

All: 0.751 $\pm$ 1.594 χ^2/NDF : 184.3/68

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10005.373 $\pm$ 2.006 χ^2/NDF : 259342.0/16

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

Left In: 9935.035 $\pm$ 2.010 χ^2/NDF : 269373.9/15

Left: 9970.276 $\pm$ 1.420 χ^2/NDF : 529329.4/32

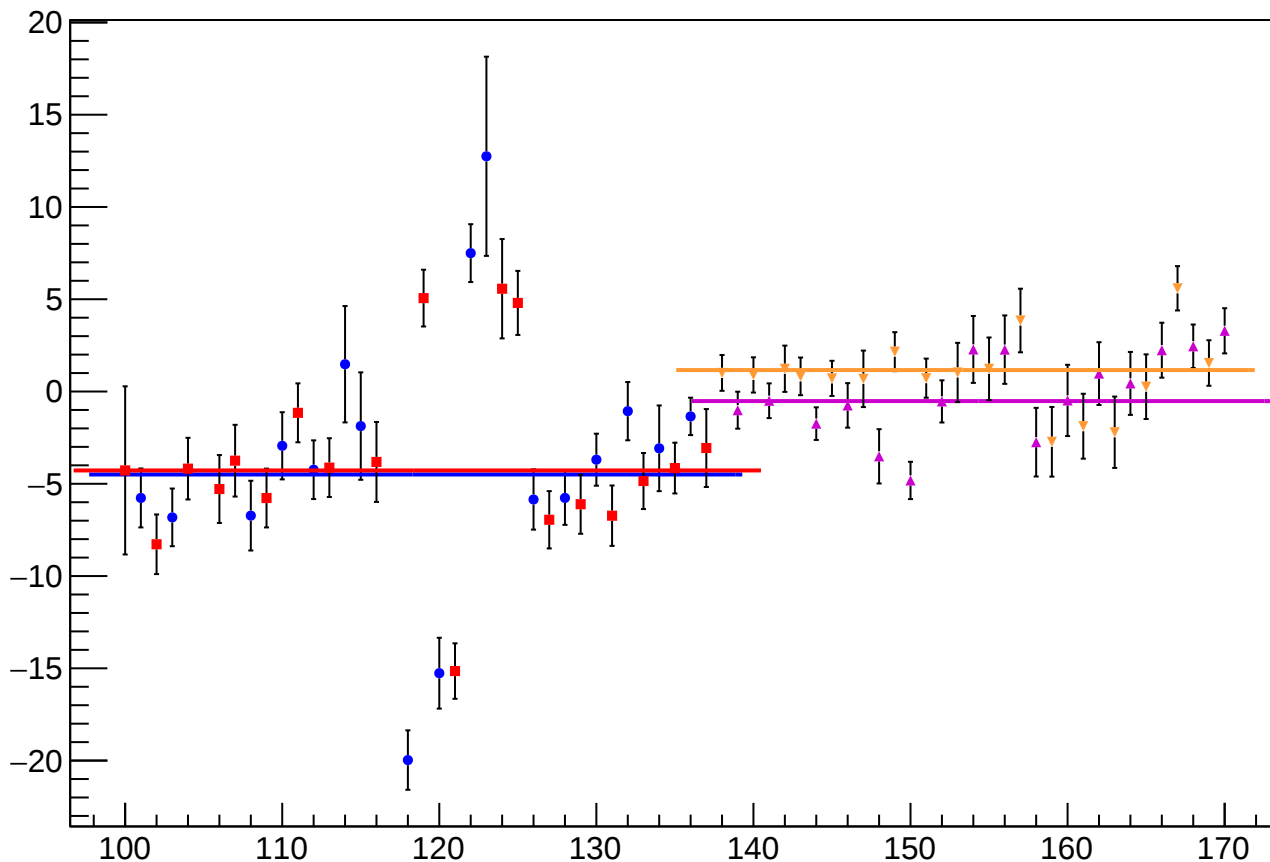
Right: 9658.117 $\pm$ 1.855 χ^2/NDF : 545307.6/35

In: 9901.781 $\pm$ 1.615 χ^2/NDF : 530208.9/32

Out: 9810.467 $\pm$ 1.575 χ^2/NDF : 560646.0/35

All: 9854.965 $\pm$ 1.127 χ^2/NDF : 1092493.7/68

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: -0.519 ± 0.317 χ^2/NDF : 51.1/15

Left: 0.351 ± 0.220 χ^2/NDF : 93.9/32

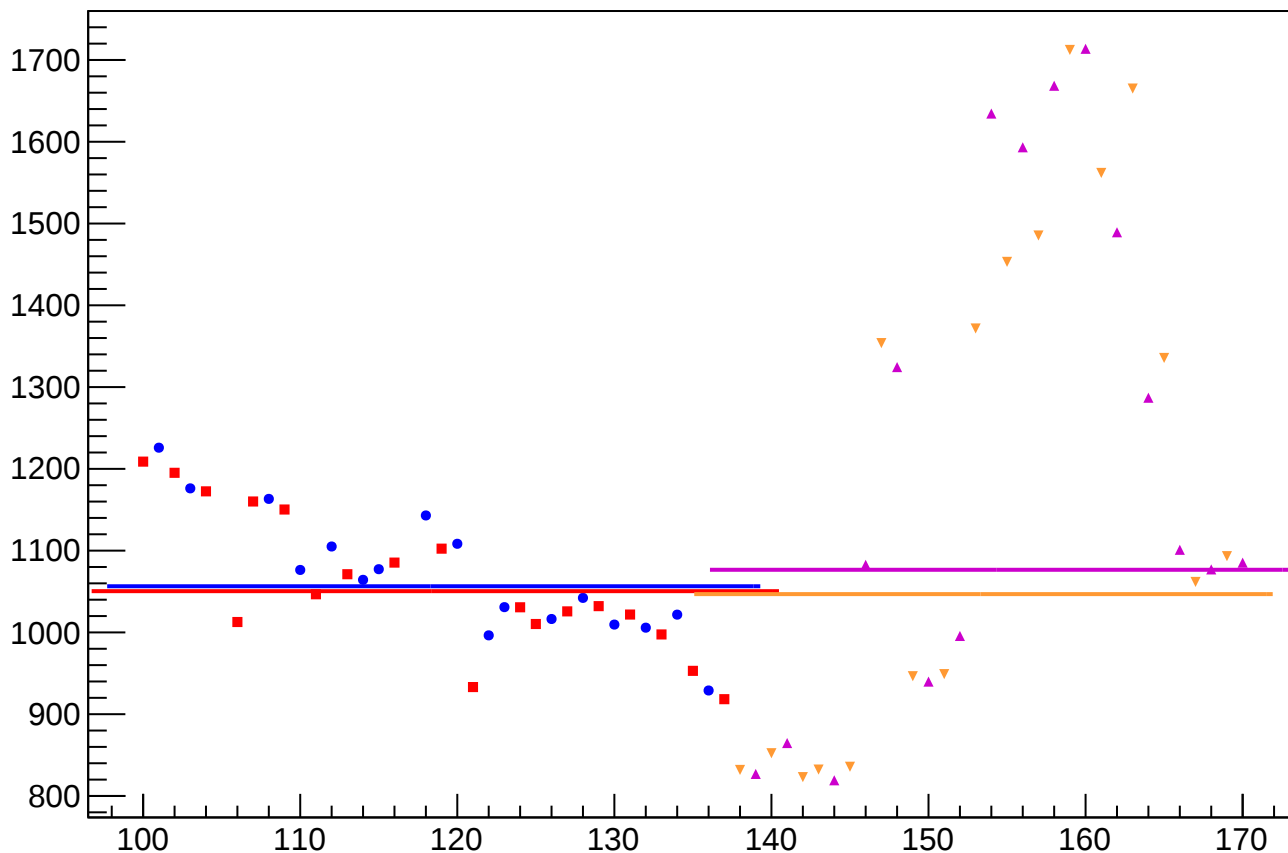
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.013 ± 0.250 χ^2/NDF : 328.8/32

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

All: -1.428 ± 0.174 χ^2/NDF : 634.8/68

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: 1076.589 $\pm$ 0.224 χ^2 /NDF:1412357.6/15

Left: 1061.200 $\pm$ 0.156 χ^2 /NDF: 2976868.0/32

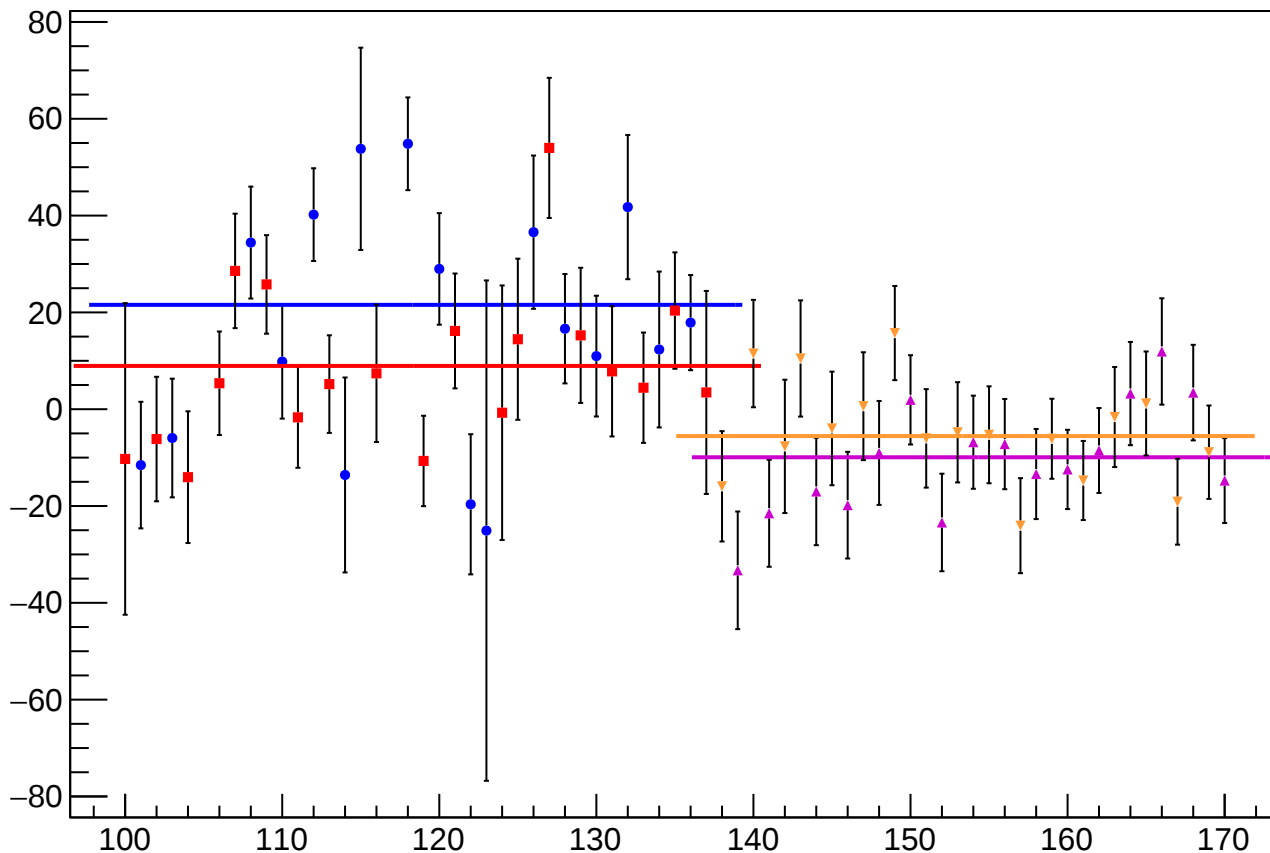
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

In: 1069.020 $\pm$ 0.177 χ^2 /NDF:1506175.2/32

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

All: 1058.243 $\pm$ 0.123 χ^2 /NDF: 3151222.4/68

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: -9.928+/-2.472 χ^2/NDF : 17.5/15

Left: -7.736+/-1.746 χ^2/NDF : 37.0/32

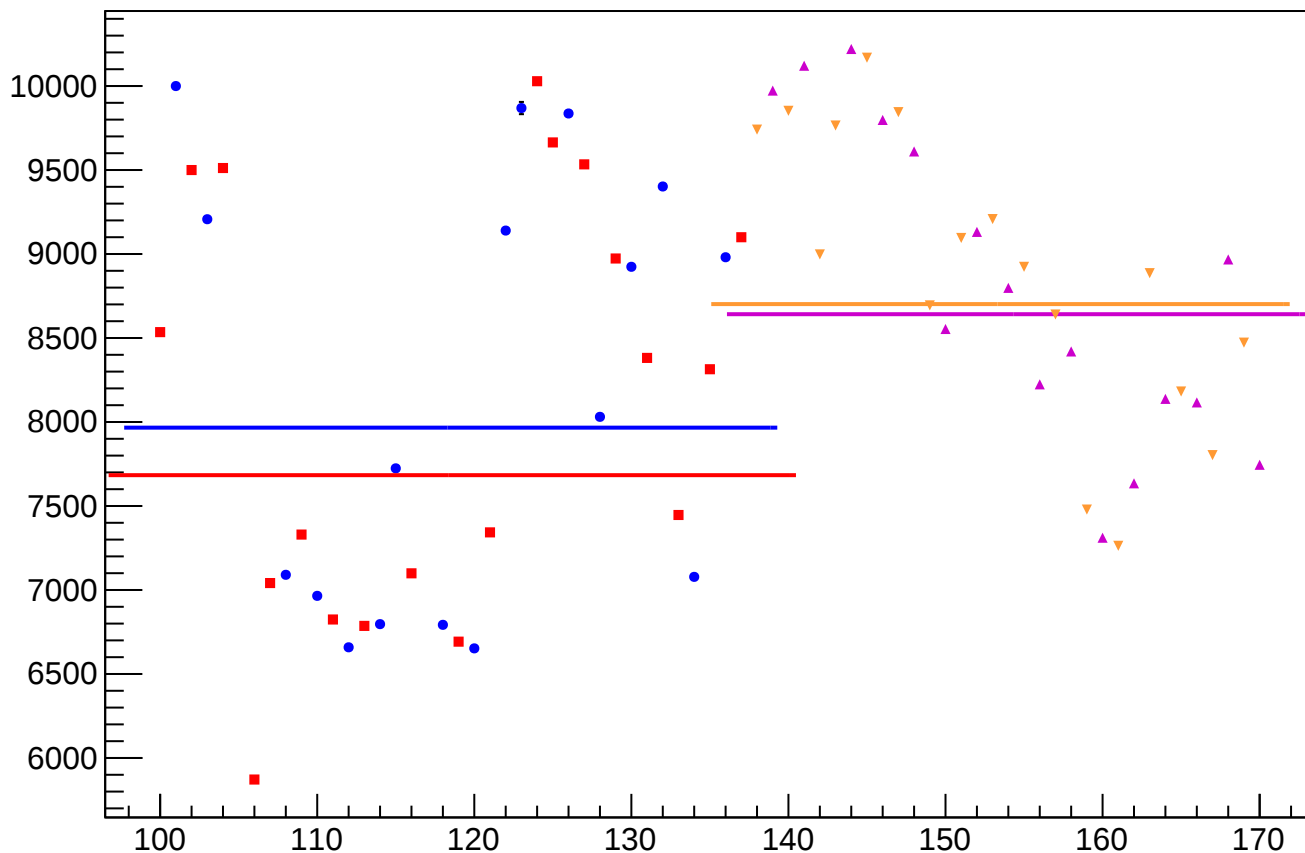
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 2.261+/-1.935 χ^2/NDF : 128.7/32

Out: 0.503+/-1.882 χ^2/NDF : 59.8/35

All: 1.357+/-1.349 χ^2/NDF : 188.9/68

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: 8641.712 +/- 1.748 χ^2/NDF : 260370.0/15

Left: 8671.851 +/- 1.235 χ^2/NDF : 509662.2/32

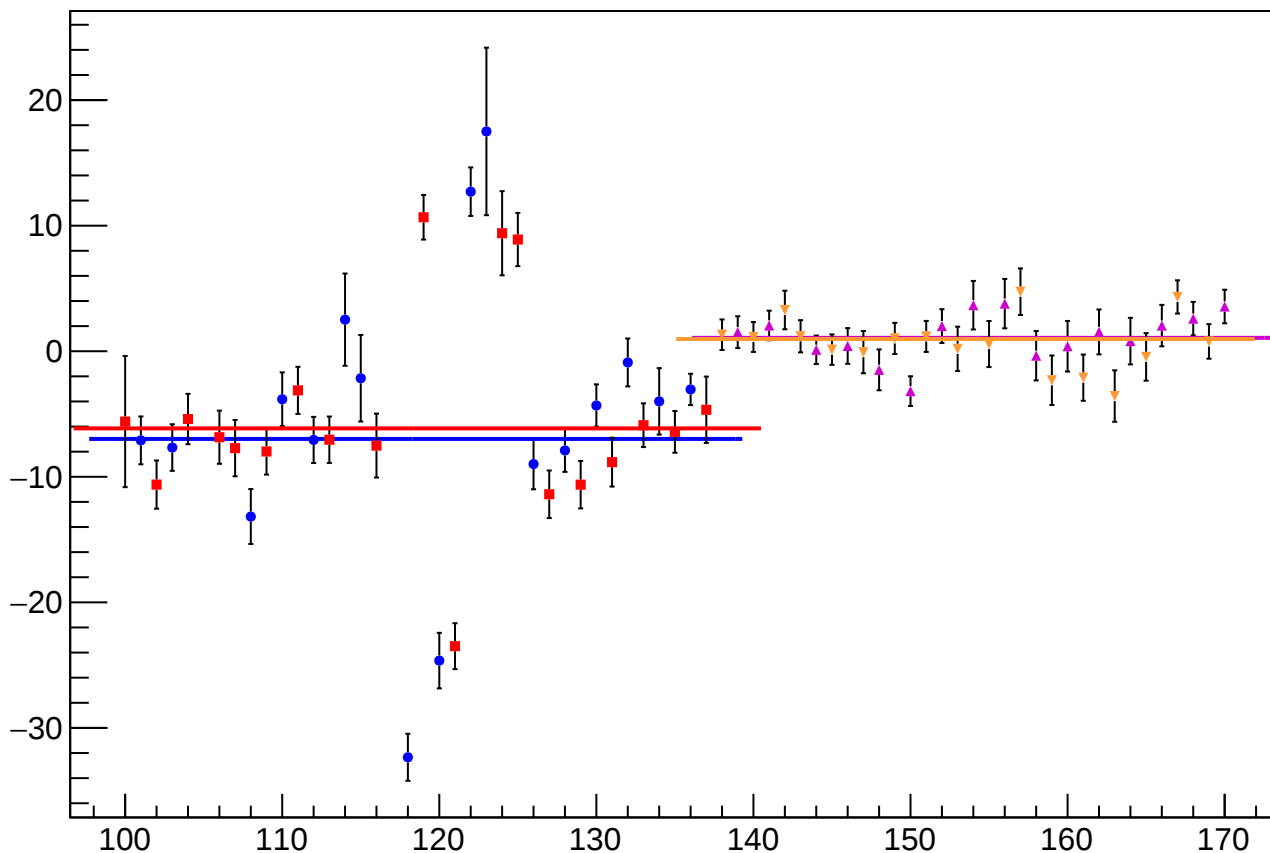
Right: 7815.627 +/- 1.503 χ^2/NDF : 620463.8/35

In: 8380.314 +/- 1.368 χ^2/NDF : 614766.3/32

Out: 8276.428 +/- 1.331 χ^2/NDF : 706167.0/35

All: 8326.927 +/- 0.954 χ^2/NDF : 1323895.5/68

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 $\pm$ 0.486 χ^2 /NDF: 408.5/16

Left Out: 0.971 $\pm$ 0.357 χ^2 /NDF:25.1/16

Right Out: -6.145 $\pm$ 0.467 χ^2 /NDF: 277.5/18

Left In: 1.066 $\pm$ 0.368 χ^2 /NDF:27.2/15

Left: 1.017 $\pm$ 0.256 χ^2 /NDF: 52.3/32

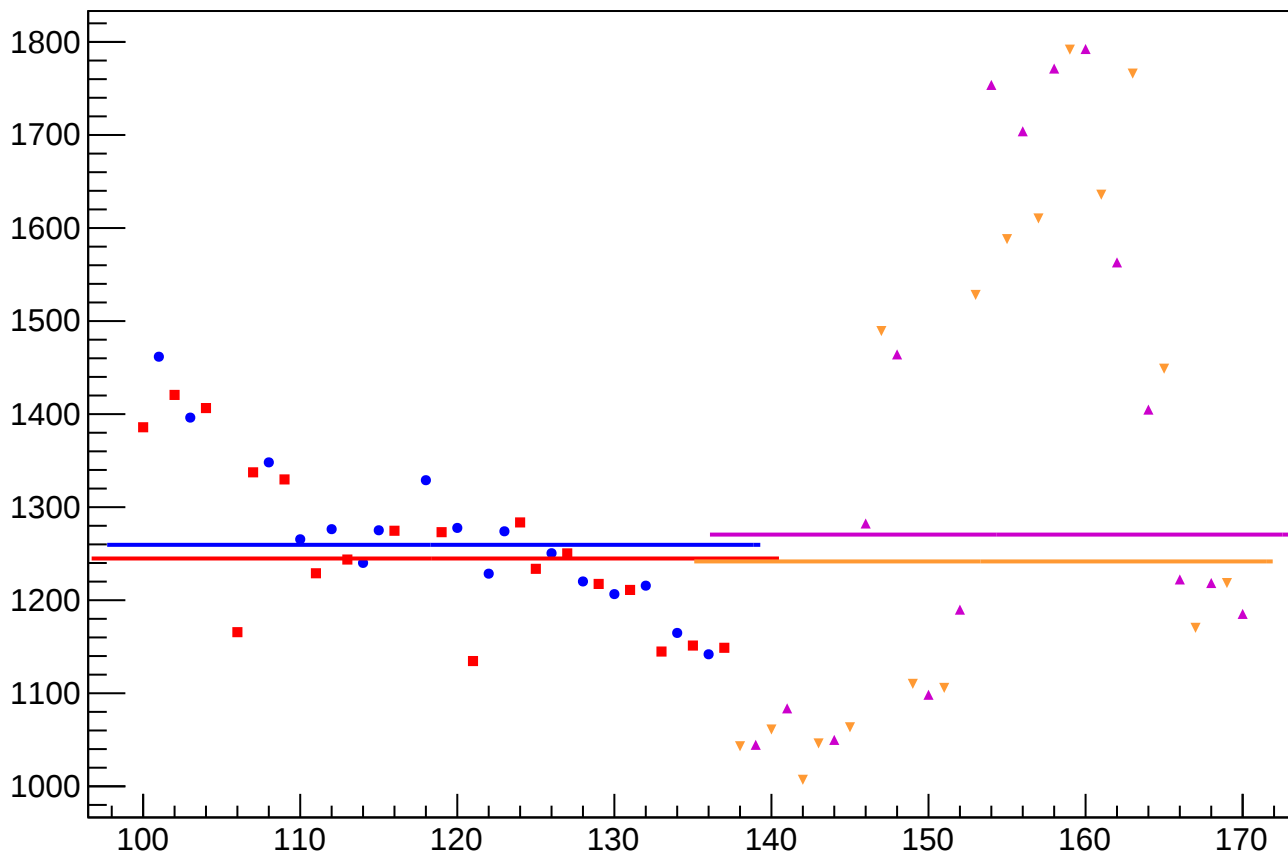
Right: -6.547 $\pm$ 0.337 χ^2 /NDF: 687.6/35

In: -1.867 $\pm$ 0.293 χ^2 /NDF:609.9/32

Out: -1.659 $\pm$ 0.284 χ^2 /NDF:449.2/35

All: -1.760 $\pm$ 0.204 χ^2 /NDF: 1059.4/68

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: 1270.534 $\pm$ 0.260 χ^2/NDF : 830118.6/15

Left: 1255.685 $\pm$ 0.181 χ^2/NDF : 1773447.2/32

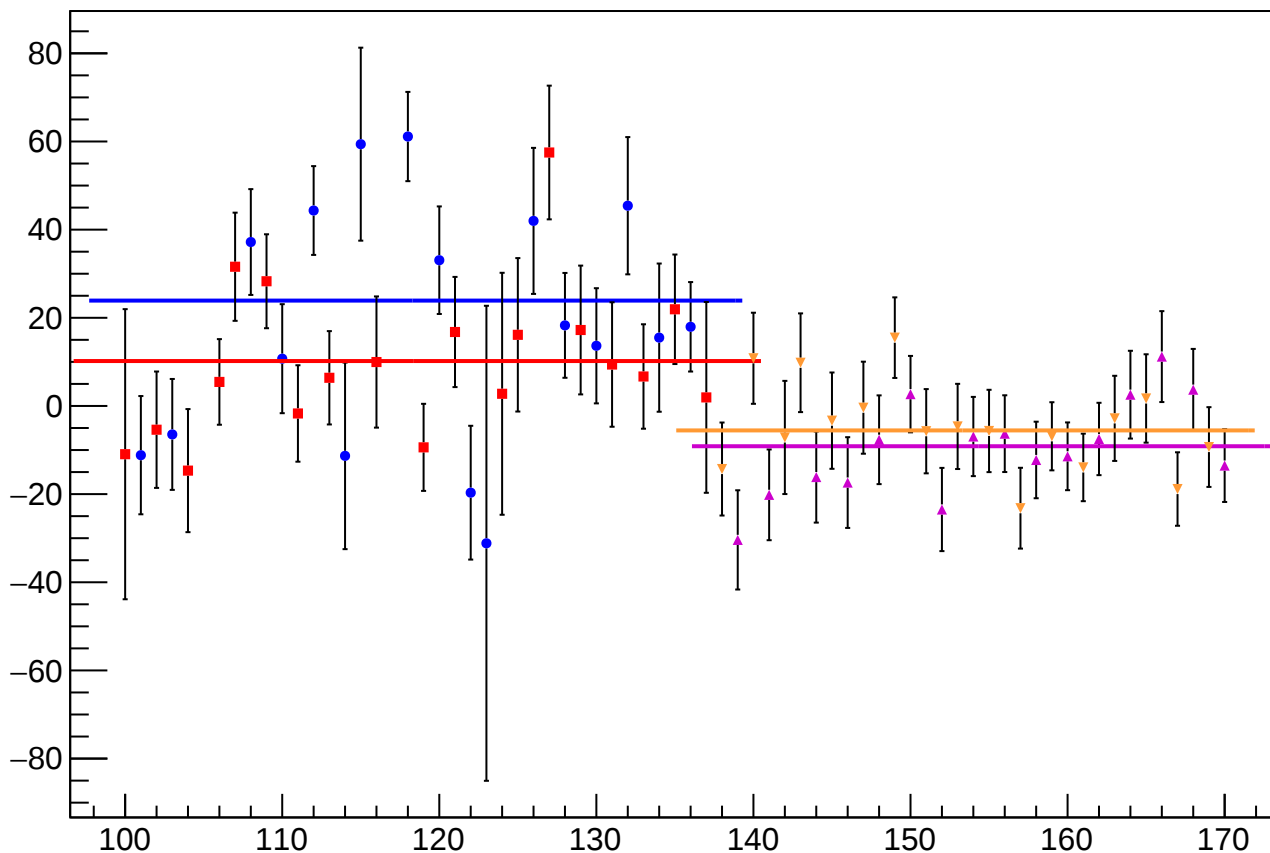
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1266.525 $\pm$ 0.207 χ^2/NDF : 895614.2/32

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

All: 1254.289 $\pm$ 0.144 χ^2/NDF : 1906229.9/68

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: -9.138 ± 2.313 $\chi^2/\text{NDF}: 17.9/15$

Left: -7.339 ± 1.633 $\chi^2/\text{NDF}: 38.0/32$

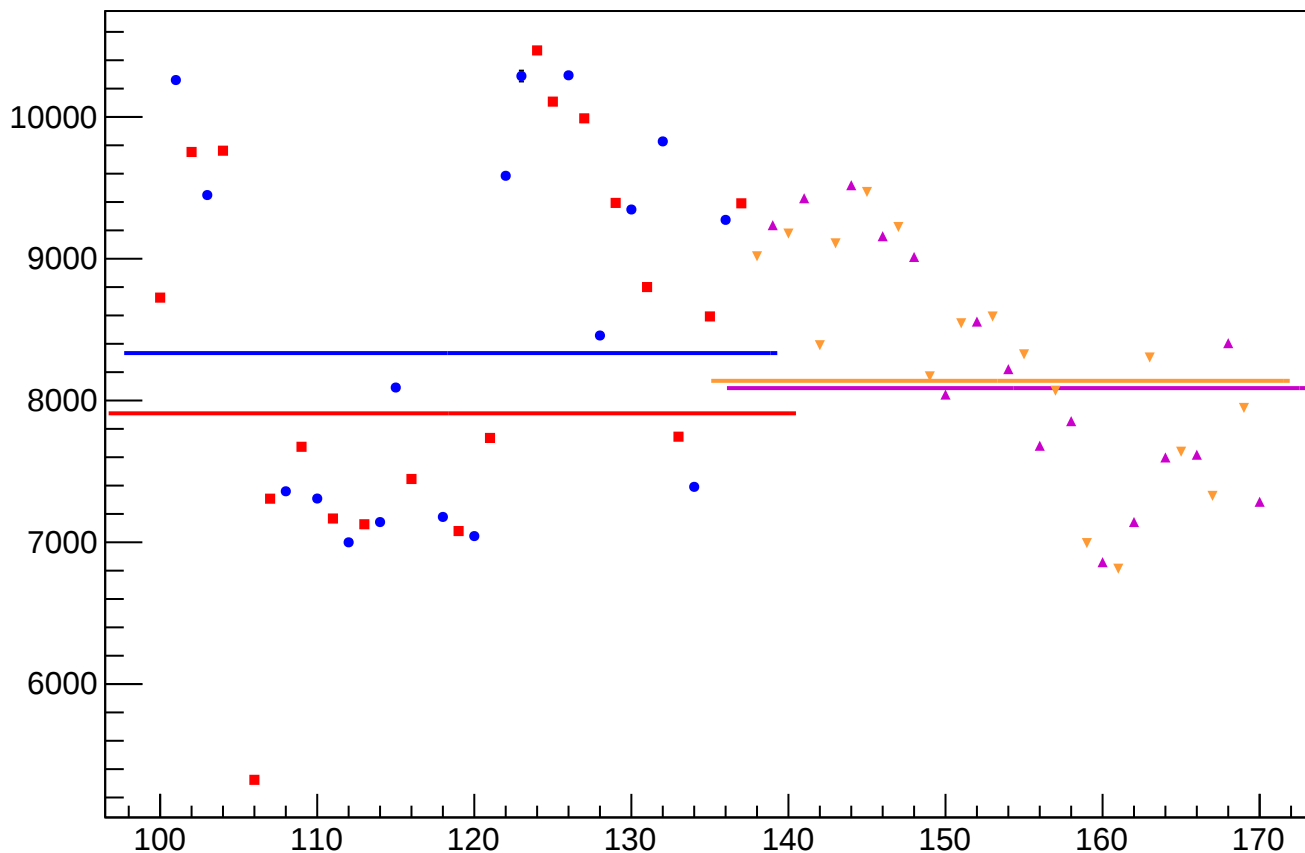
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 1.966 ± 1.884 $\chi^2/\text{NDF}: 138.9/32$

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

All: 1.100 ± 1.313 $\chi^2/\text{NDF}: 203.5/68$

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: 8087.493 $\pm$ 1.635 χ^2 /NDF:250542.5/15

Left: 8113.248 $\pm$ 1.155 χ^2 /NDF: 490244.3/32

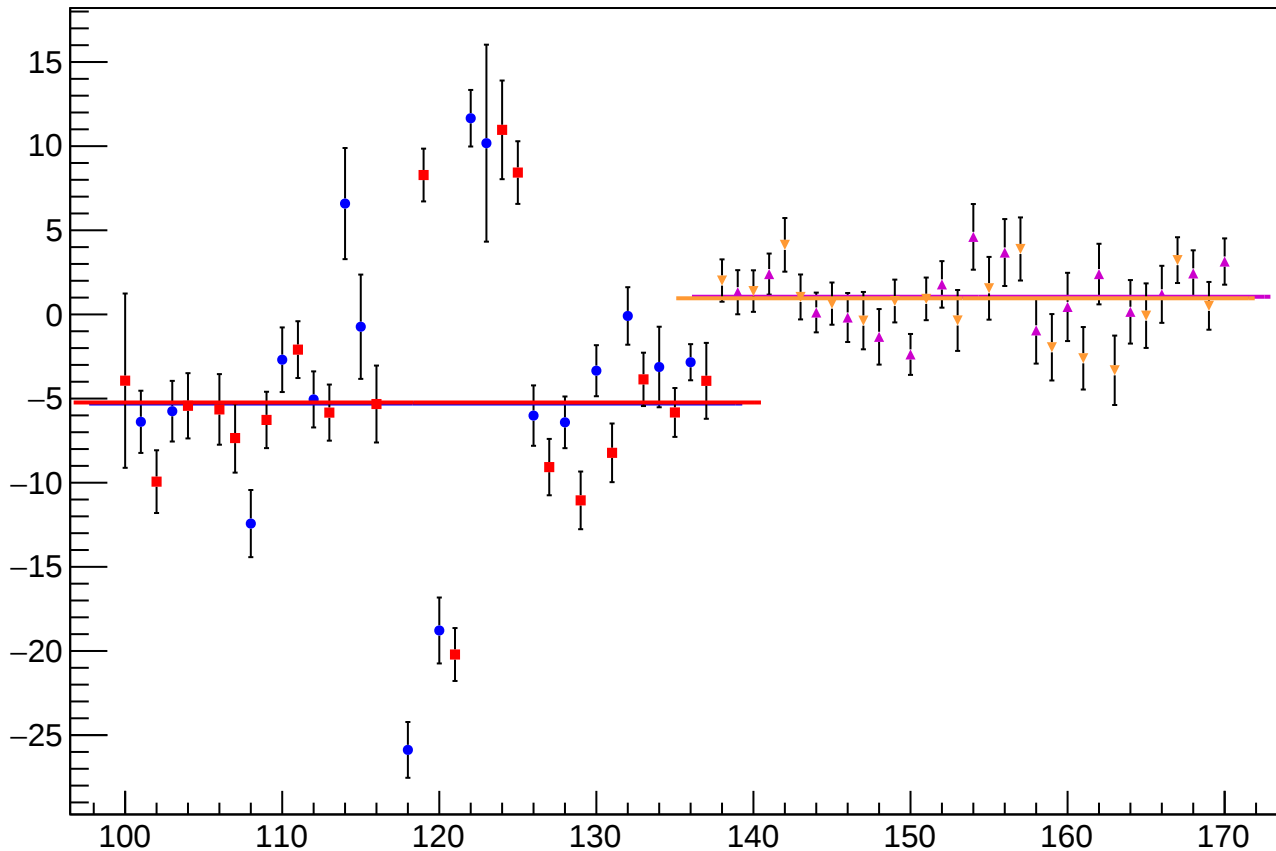
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8170.504 $\pm$ 1.332 χ^2 /NDF:530513.1/32

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

All: 8110.489 $\pm$ 0.928 χ^2 /NDF: 1171803.8/68

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.051 $\pm$ 0.377 χ^2/NDF : 23.2/15

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

Left In: 1.051 $\pm$ 0.377 χ^2/NDF : 23.2/15

Left: 1.004 $\pm$ 0.263 χ^2/NDF : 45.1/32

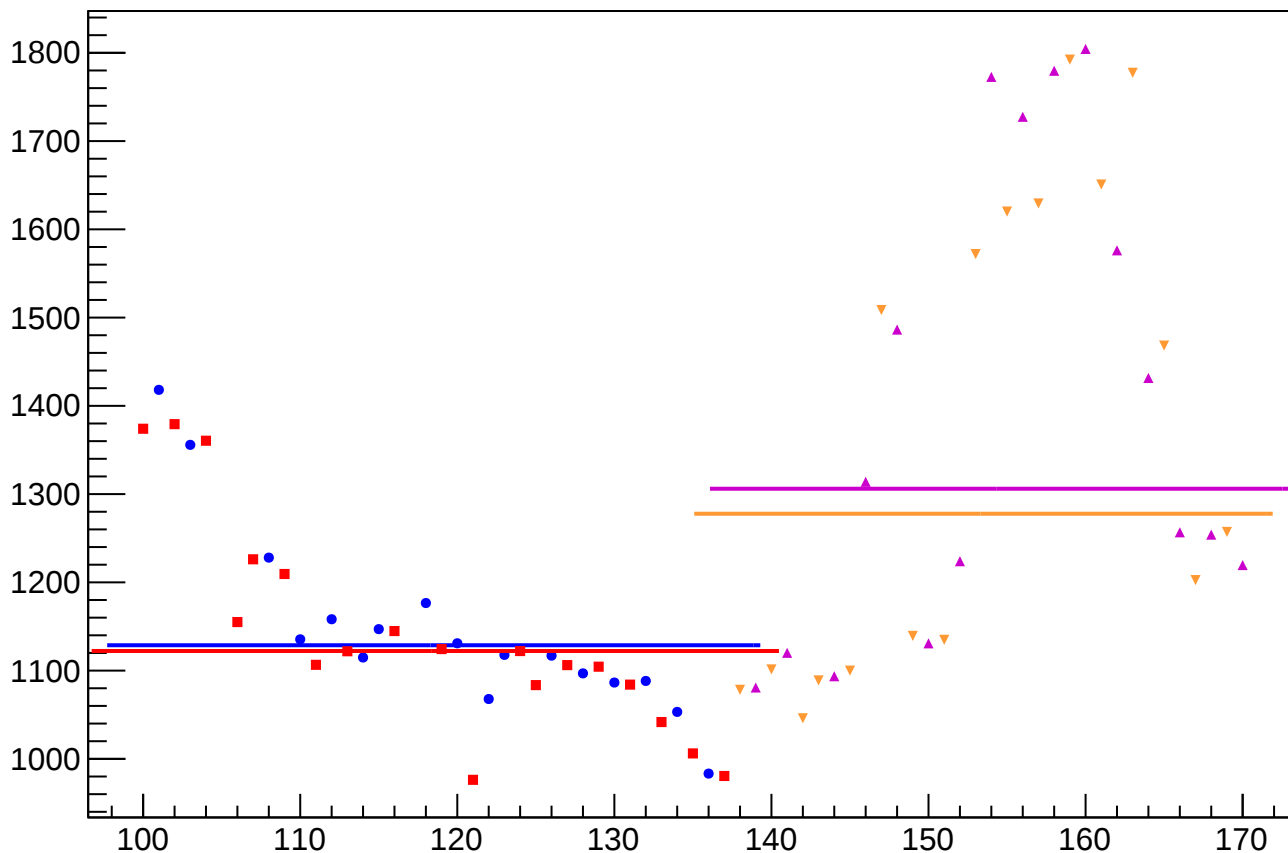
Right: -5.263 $\pm$ 0.303 χ^2/NDF : 640.0/35

In: -1.662 $\pm$ 0.286 χ^2/NDF : 502.2/32

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

All: -1.686 $\pm$ 0.199 χ^2/NDF : 928.7/68

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: 1306.071 $\pm$ 0.267 χ^2 /NDF: 748974.8/15

Left: 1291.513 $\pm$ 0.186 χ^2 /NDF: 1605101.4/32

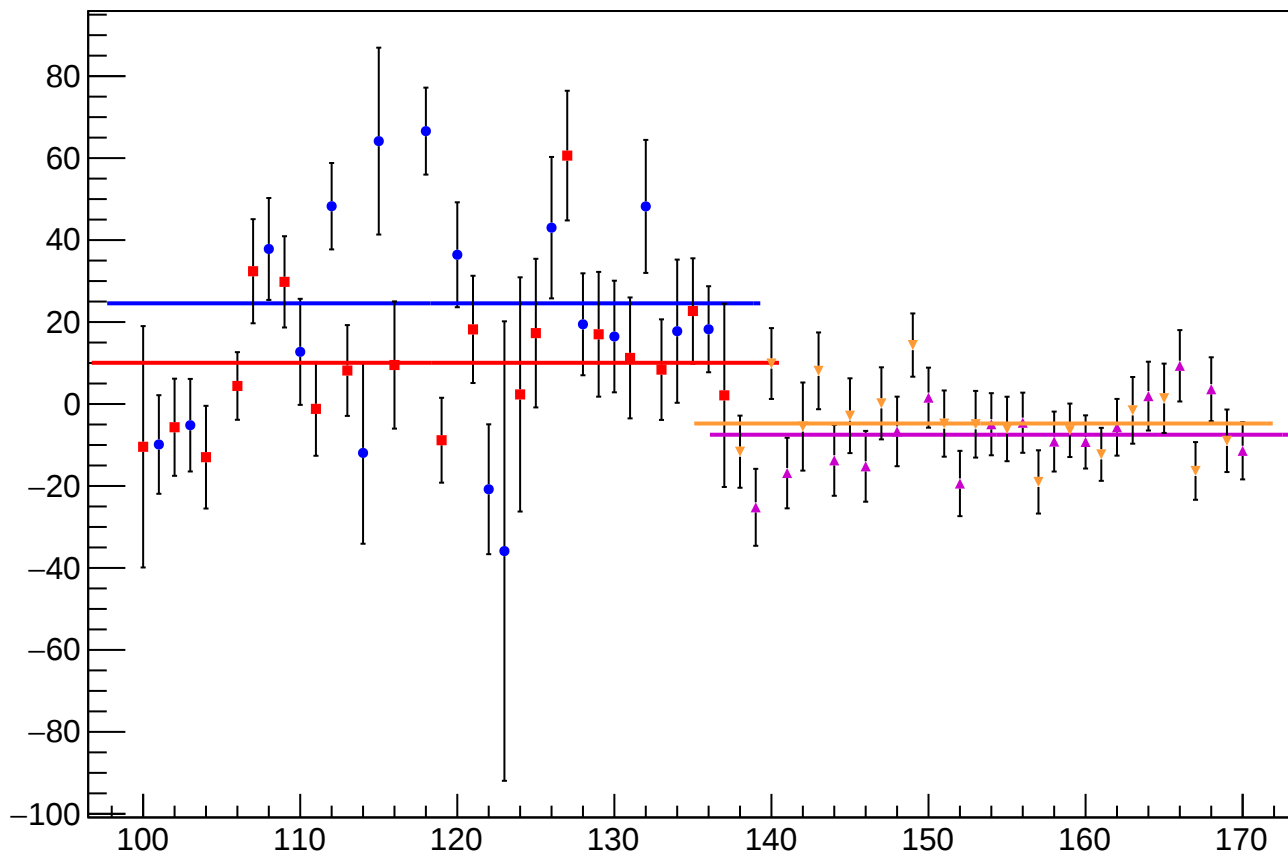
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

In: 1230.276 $\pm$ 0.202 χ^2 /NDF: 1070778.5/32

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

All: 1220.211 $\pm$ 0.141 χ^2 /NDF: 2210404.6/68

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 ± 3.318 $\chi^2/\text{NDF}: 58.1/16$

Left Out: -4.754 ± 1.941 $\chi^2/\text{NDF}: 20.4/16$

Right Out: 10.057 ± 3.008 $\chi^2/\text{NDF}: 28.8/18$

Left In: -7.494 ± 1.948 $\chi^2/\text{NDF}: 17.6/15$

Left: -6.120 ± 1.375 $\chi^2/\text{NDF}: 39.0/32$

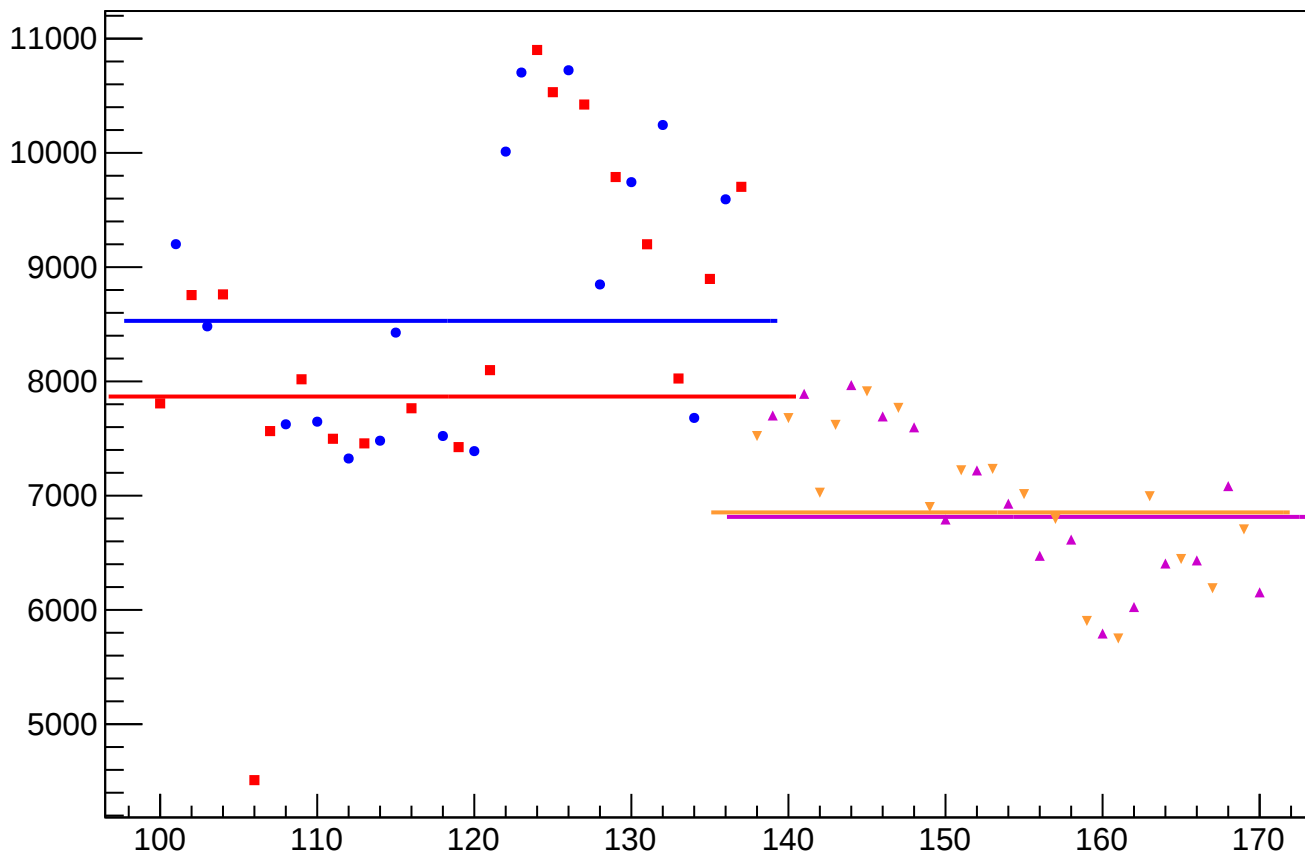
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: 0.722 ± 1.680 $\chi^2/\text{NDF}: 145.2/32$

Out: -0.398 ± 1.631 $\chi^2/\text{NDF}: 66.3/35$

All: 0.146 ± 1.170 $\chi^2/\text{NDF}: 211.7/68$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821 $\pm$ 2.346 χ^2 /NDF: 208336.1/16

Left Out: 6853.491 $\pm$ 1.373 χ^2 /NDF: 226275.3/16

Right Out: 7867.584 $\pm$ 2.127 χ^2 /NDF: 555841.7/18

Left In: 6814.159 $\pm$ 1.377 χ^2 /NDF: 238285.3/15

Left: 6833.890 $\pm$ 0.972 χ^2 /NDF: 464969.6/32

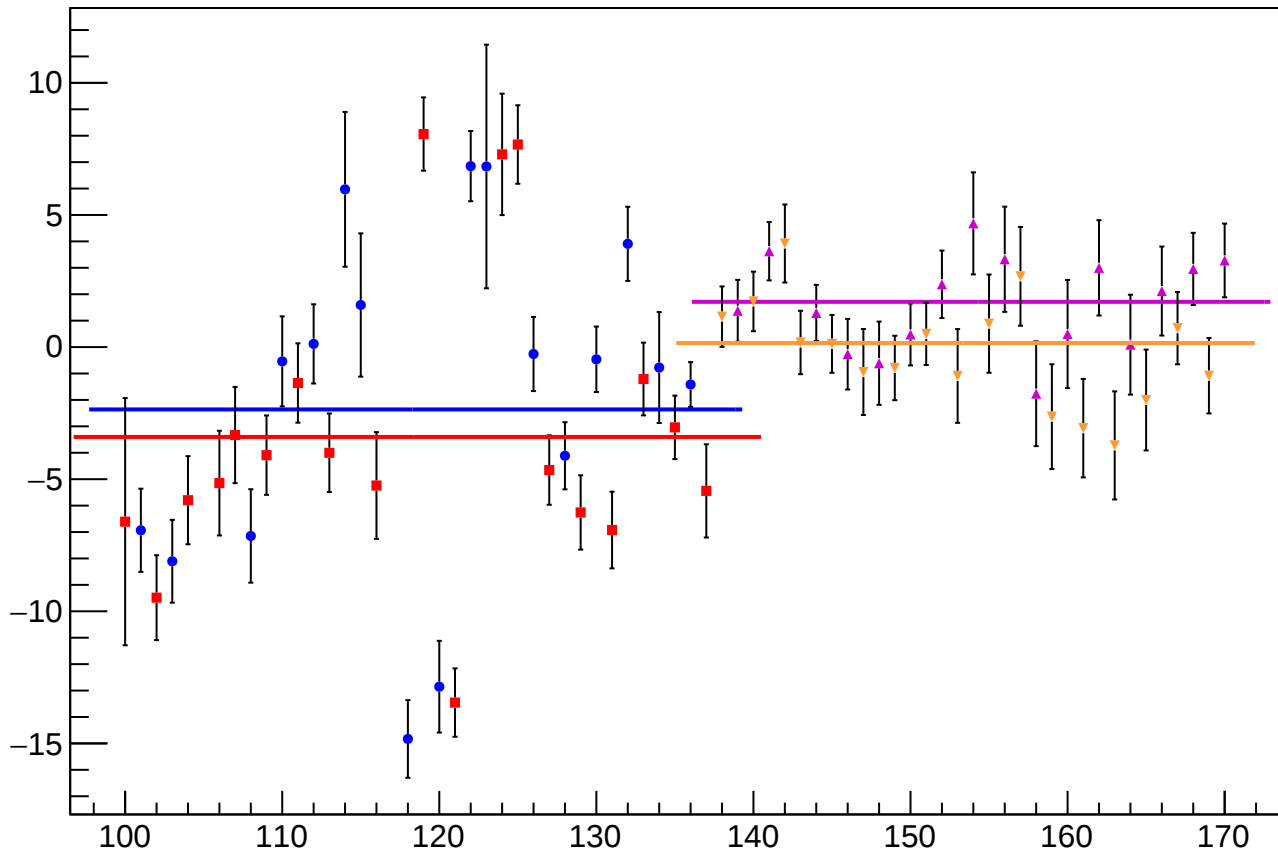
Right: 8166.253 $\pm$ 1.576 χ^2 /NDF: 807907.7/35

In: 7253.808 $\pm$ 1.188 χ^2 /NDF: 844240.6/32

Out: 7151.758 $\pm$ 1.153 χ^2 /NDF: 942612.2/35

All: 7201.283 $\pm$ 0.827 χ^2 /NDF: 1790652.0/68

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: 1.713 ± 0.359 χ^2/NDF : 18.8/15

Left: 0.907 ± 0.250 χ^2/NDF : 52.2/32

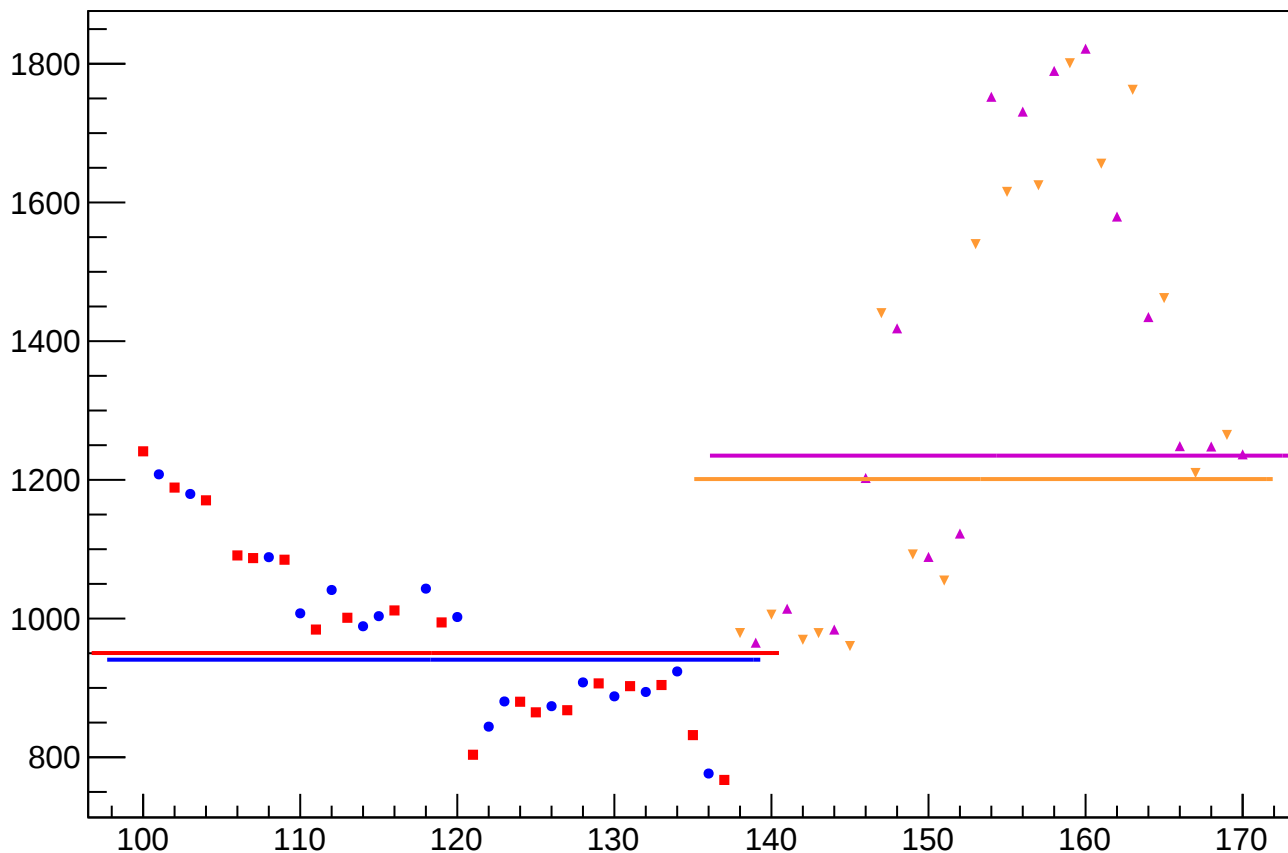
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.289 ± 0.256 χ^2/NDF : 314.0/32

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

All: -0.946 ± 0.179 χ^2/NDF : 642.6/68

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683 $\pm$ 0.258 χ^2 /NDF: 241768.4/16

Left Out: 1201.156 $\pm$ 0.246 χ^2 /NDF:1209312.8/16

Right Out: 950.316 $\pm$ 0.253 χ^2 /NDF: 220678.1/18

Left In: 1234.945 $\pm$ 0.254 χ^2 /NDF:1056966.4/15

Left: 1217.481 $\pm$ 0.177 χ^2 /NDF: 2275420.0/32

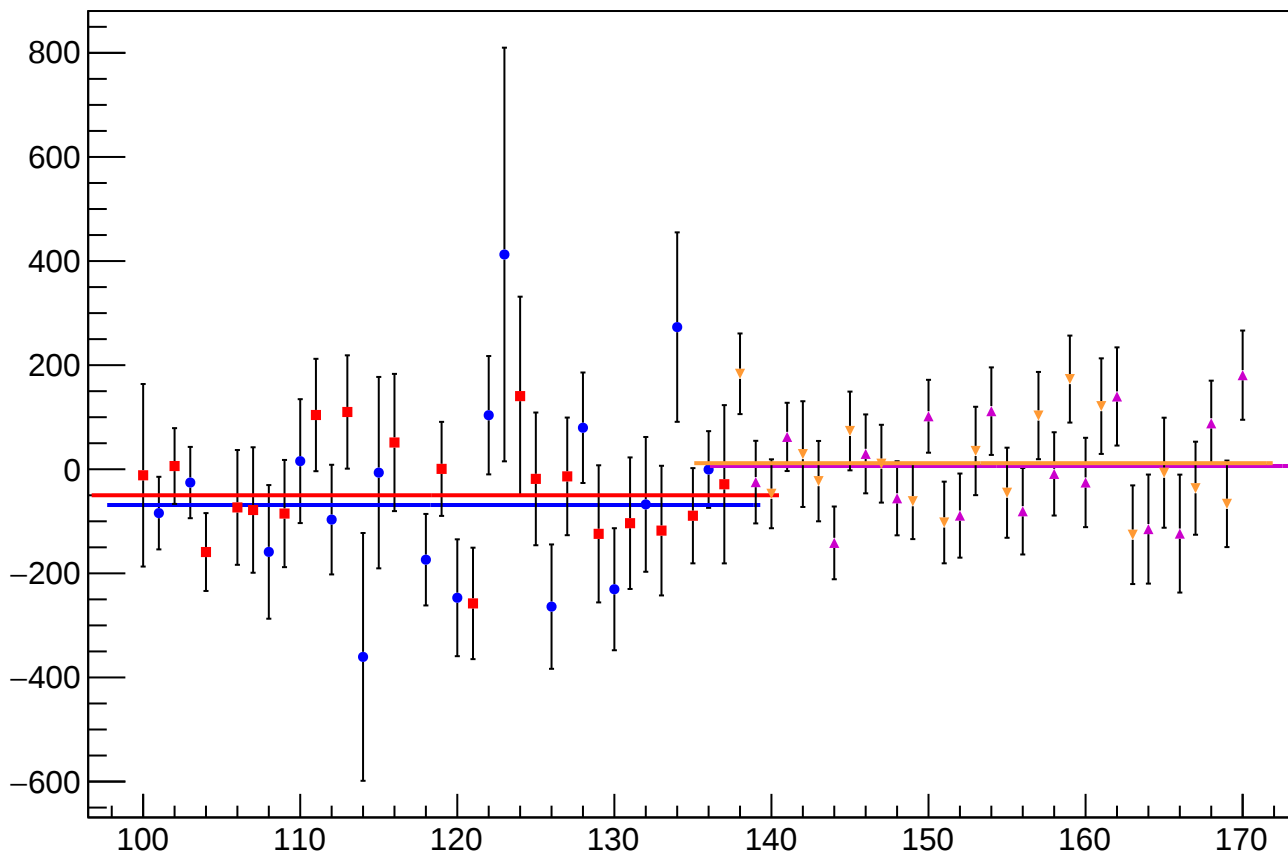
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1090.341 $\pm$ 0.181 χ^2 /NDF:1957870.1/32

Out: 1079.574 $\pm$ 0.176 χ^2 /NDF:1935401.8/35

All: 1084.811 $\pm$ 0.126 χ^2 /NDF: 3895085.1/68

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 11.683 ± 19.955 χ^2/NDF : 19.9/16

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 6.251 ± 20.123 χ^2/NDF : 22.1/15

Left: 8.990 ± 14.170 χ^2/NDF : 42.0/32

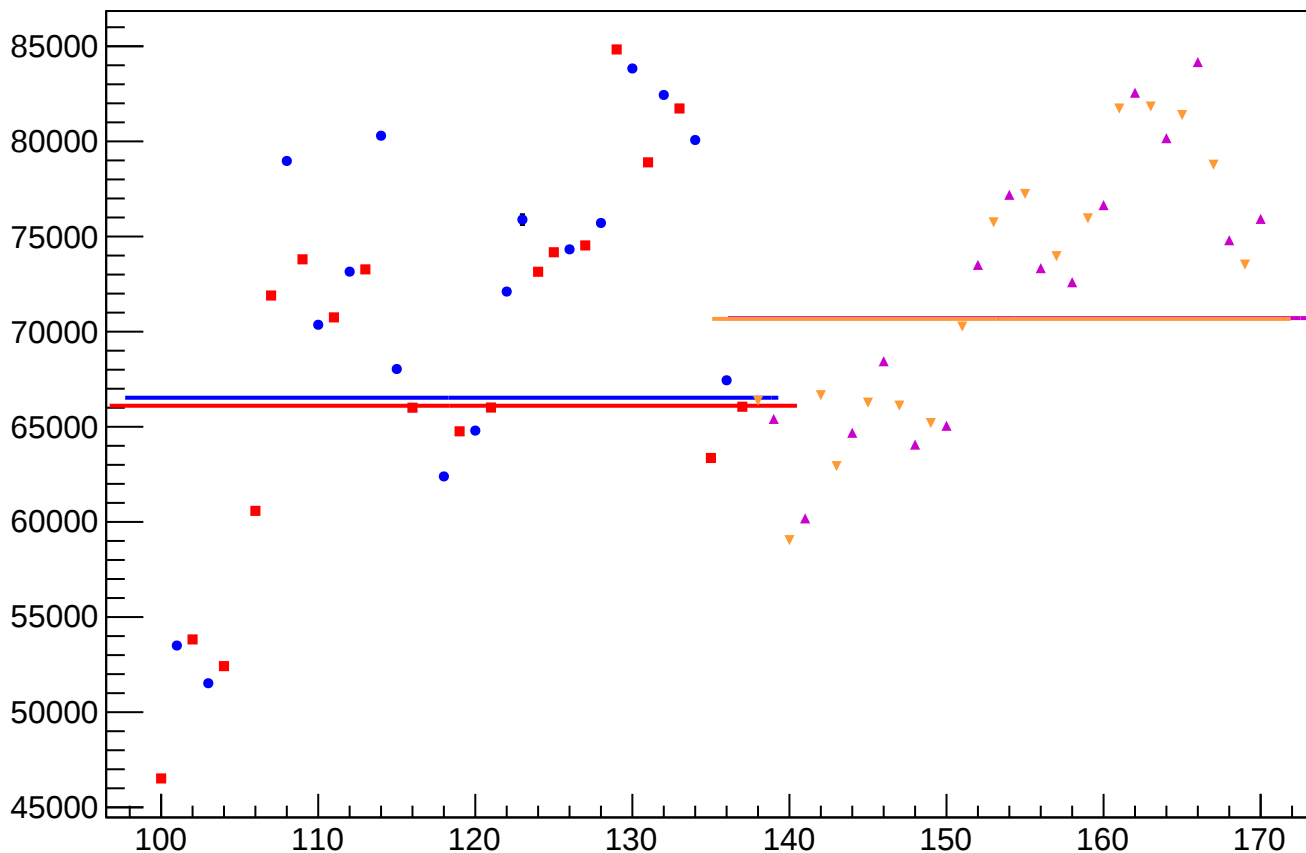
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -21.897 ± 15.901 χ^2/NDF : 49.1/32

Out: -12.283 ± 15.601 χ^2/NDF : 37.6/35

All: -16.998 ± 11.136 χ^2/NDF : 86.9/68

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: 70712.763+/-14.229 χ^2/NDF : 223040.1/15

Left: 70692.285+/-10.019 χ^2/NDF : 465559.1/32

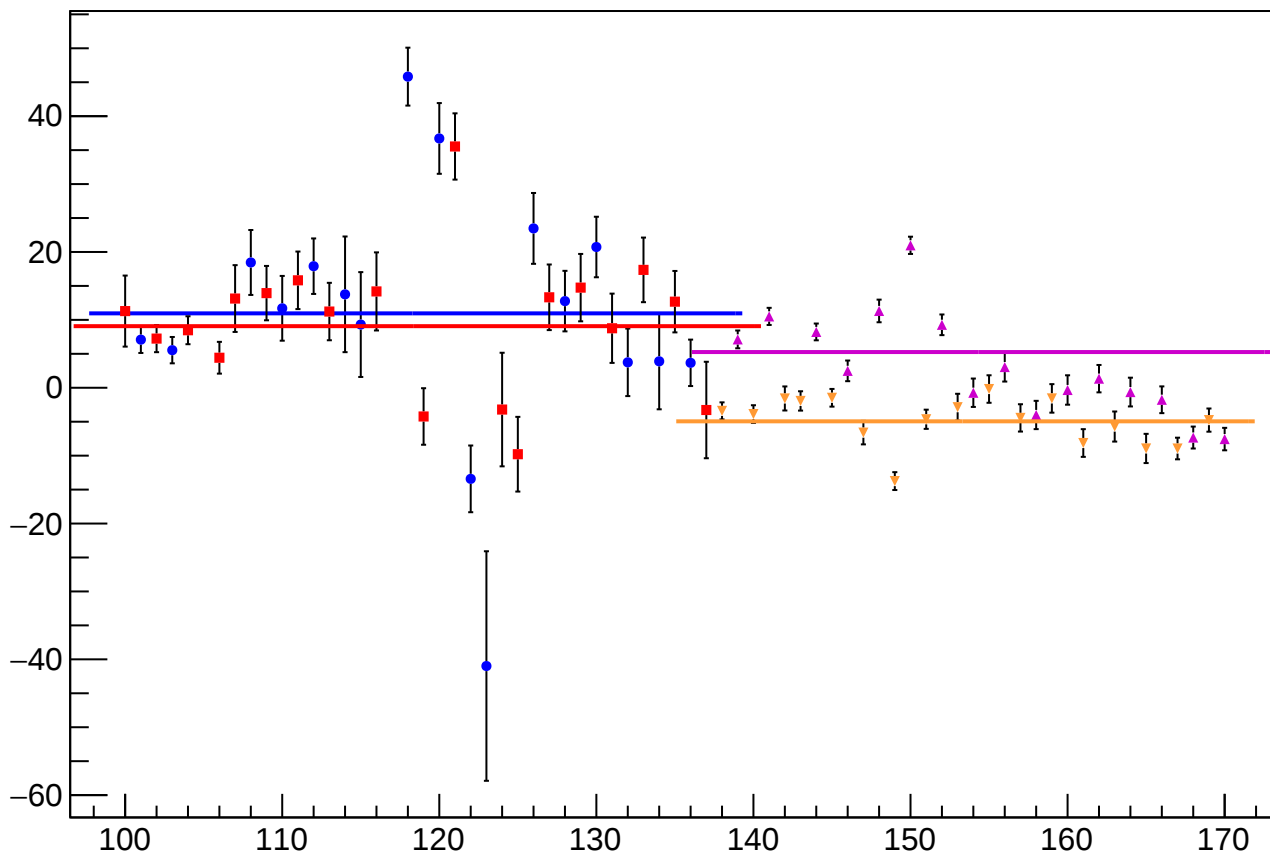
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 69140.677+/-11.244 χ^2/NDF : 576424.9/32

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

All: 69016.383+/-7.874 χ^2/NDF : 1158382.1/6

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: 5.259 ± 0.406 $\chi^2/\text{NDF}: 382.4/15$

Left: 0.022 ± 0.283 $\chi^2/\text{NDF}: 791.9/32$

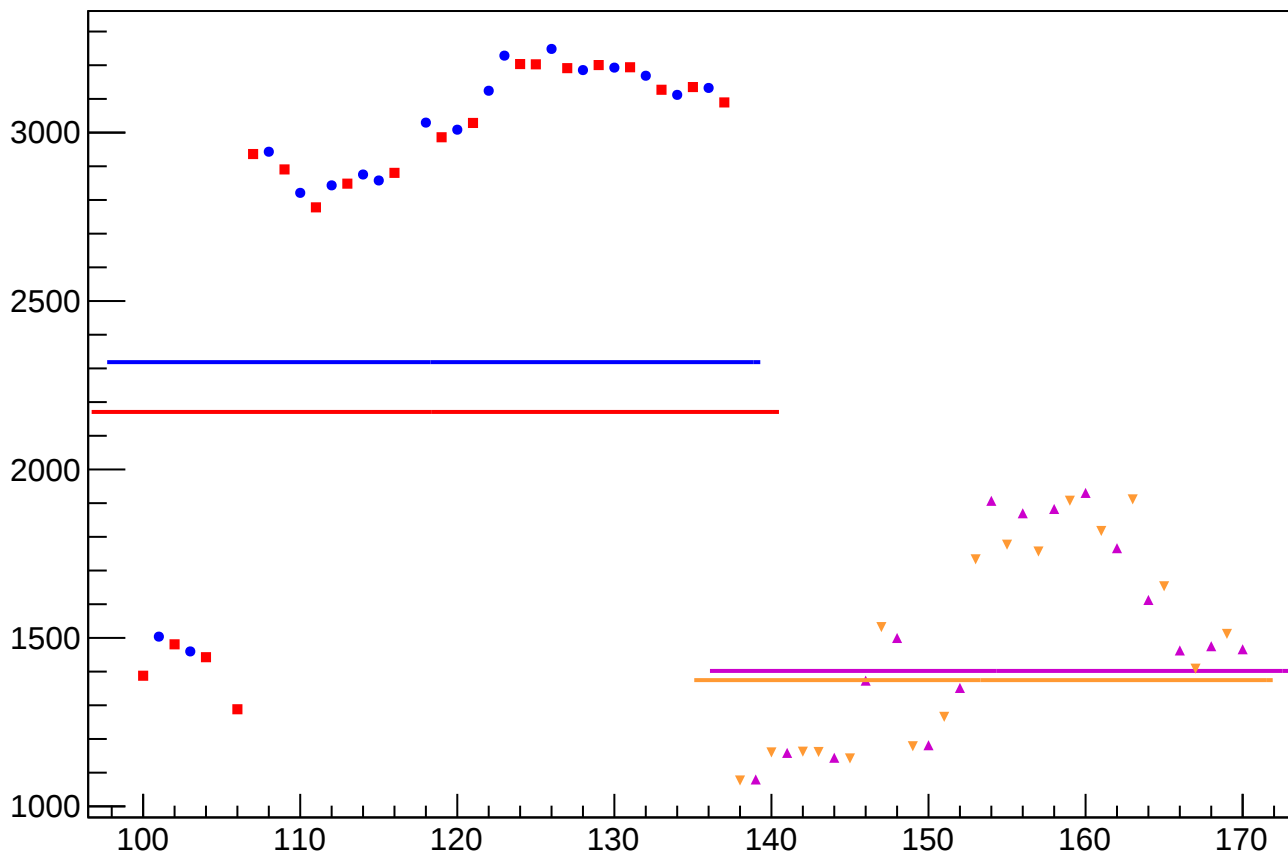
Right: 9.935 ± 0.638 $\chi^2/\text{NDF}: 236.2/35$

In: 6.149 ± 0.373 $\chi^2/\text{NDF}: 574.1/32$

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

All: 1.652 ± 0.259 $\chi^2/\text{NDF}: 1229.8/68$

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: 1402.000 +/- 0.287 χ^2/NDF : 884700.0/15

Left: 1387.992 +/- 0.200 χ^2/NDF : 1870526.1/32

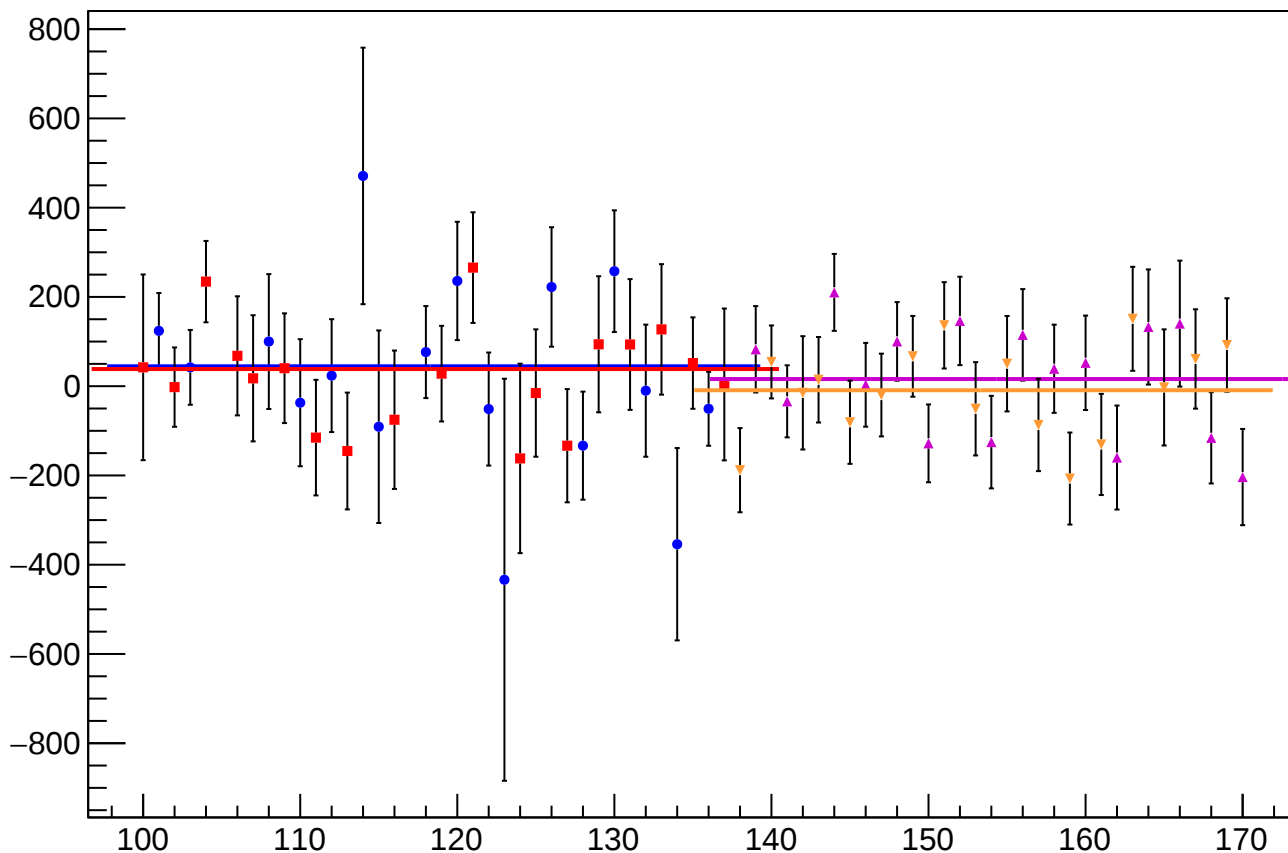
Right: 2238.439 +/- 0.451 χ^2/NDF : 3188639.4/35

In: 1545.096 +/- 0.264 χ^2/NDF : 3887062.7/32

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

All: 1527.816 +/- 0.183 χ^2/NDF : 8028280.4/68

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2 /NDF: 19.1/16

Left Out: -9.101 $\pm$ 24.671 χ^2 /NDF:16.9/16

Right Out: 38.425 $\pm$ 29.435 χ^2 /NDF: 15.7/18

Left In: 16.020 $\pm$ 24.874 χ^2 /NDF:24.0/15

Left: 3.356 $\pm$ 17.516 χ^2 /NDF: 41.4/32

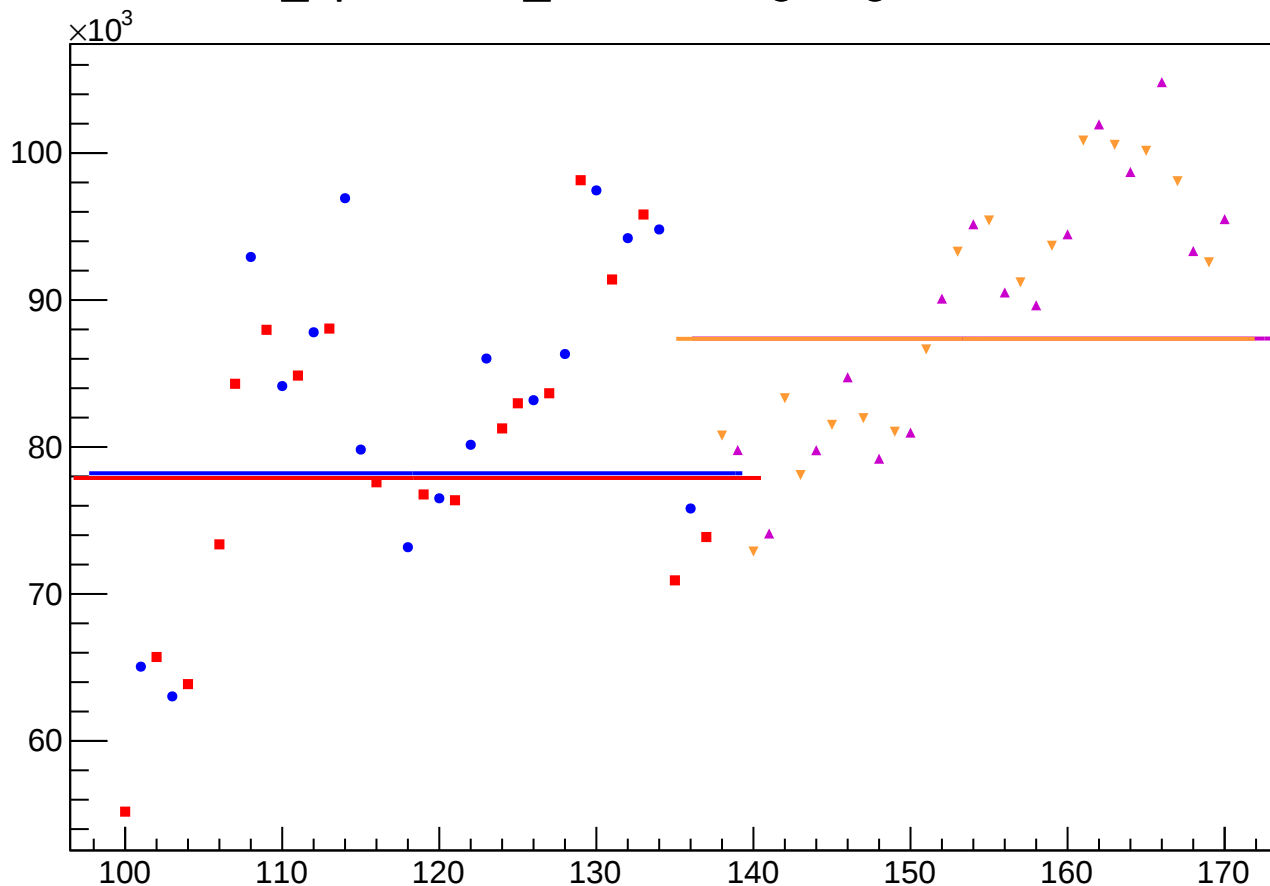
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 27.420 $\pm$ 19.259 χ^2 /NDF:43.6/32

Out: 10.509 $\pm$ 18.908 χ^2 /NDF:34.2/35

All: 18.809 $\pm$ 13.492 χ^2 /NDF: 78.2/68

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: 87380.535+/-17.589 χ^2/NDF : 231477.3/15

Left: 87370.599+/-12.386 χ^2/NDF : 474162.3/32

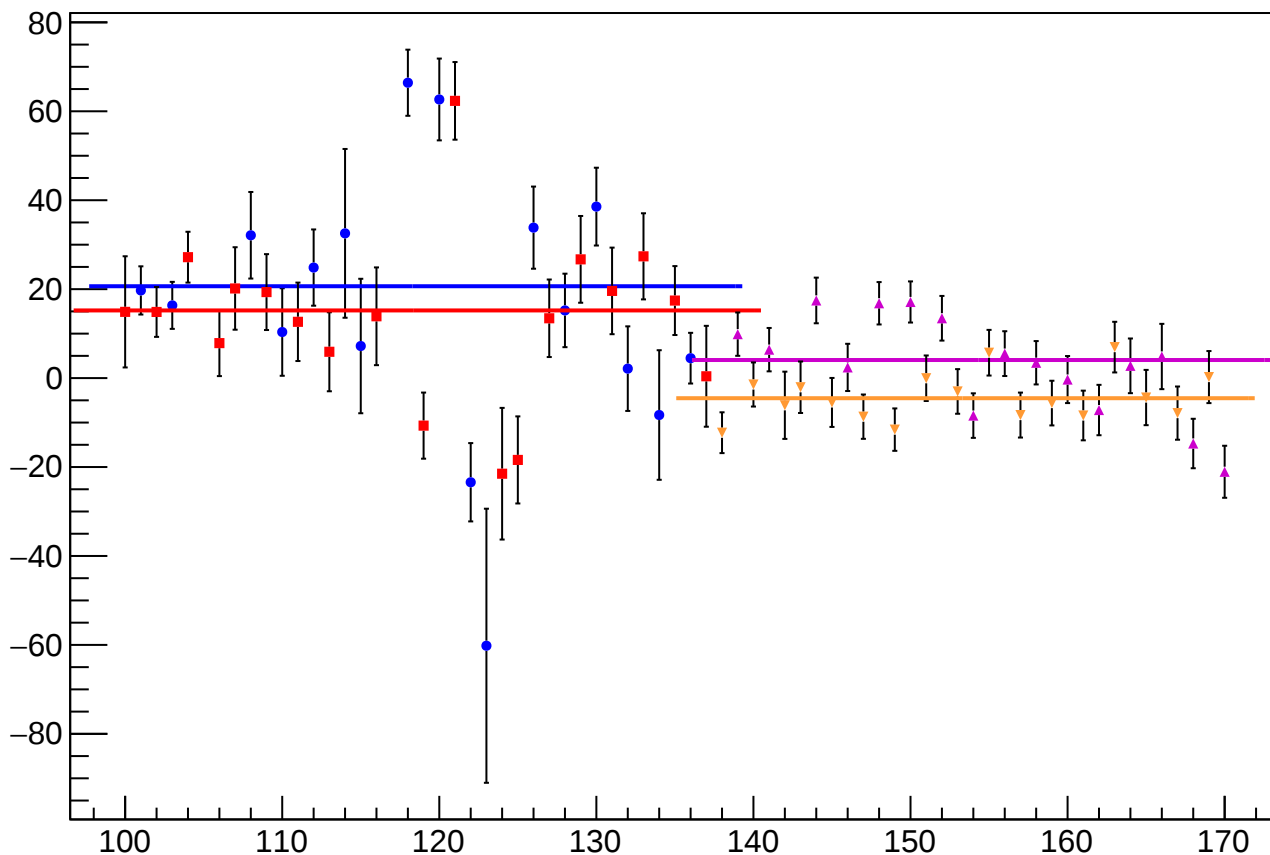
Right: 78047.137+/-14.960 χ^2/NDF : 498141.9/35

In: 83708.773+/-13.618 χ^2/NDF : 591340.1/32

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

All: 83578.904+/-9.541 χ^2/NDF : 1202740.3/66

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2/NDF : 117.7/16

Left Out: -4.522 $\pm$ 1.298 χ^2/NDF : 17.4/16

Right Out: 15.216 $\pm$ 1.955 χ^2/NDF : 71.3/18

Left In: 4.066 $\pm$ 1.310 χ^2/NDF : 68.1/15

Left: -0.266 $\pm$ 0.922 χ^2/NDF : 107.1/32

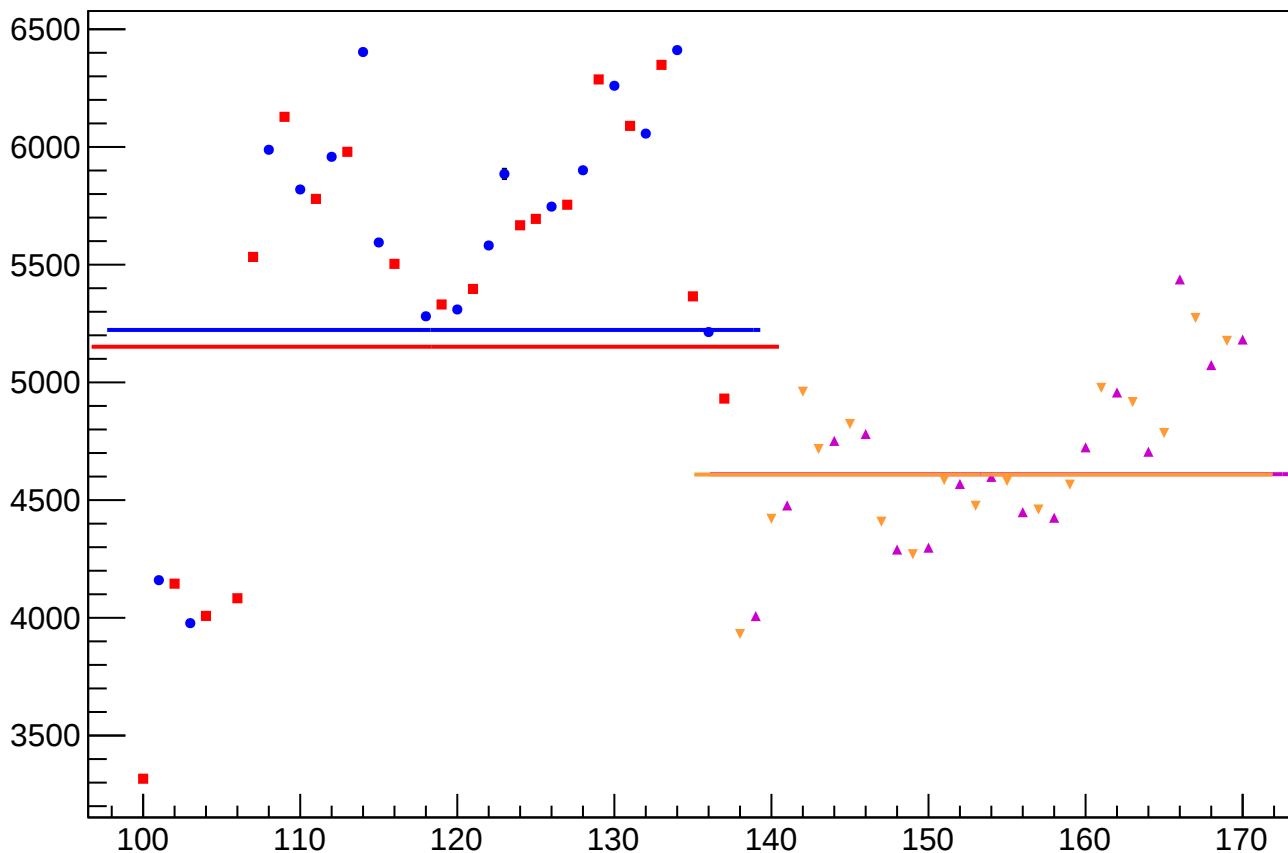
Right: 17.826 $\pm$ 1.410 χ^2/NDF : 192.8/35

In: 8.924 $\pm$ 1.102 χ^2/NDF : 232.8/32

Out: 1.520 $\pm$ 1.082 χ^2/NDF : 159.4/35

All: 5.154 $\pm$ 0.772 χ^2/NDF : 415.2/68

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 χ^2/NDF : 312497.9/16

Left Out: 4608.593 ± 0.918 χ^2/NDF : 130919.3/16

Right Out: 5151.532 ± 1.382 χ^2/NDF : 387685.6/18

Left In: 4610.107 ± 0.926 χ^2/NDF : 126219.2/15

Left: 4609.344 ± 0.652 χ^2/NDF : 257139.9/32

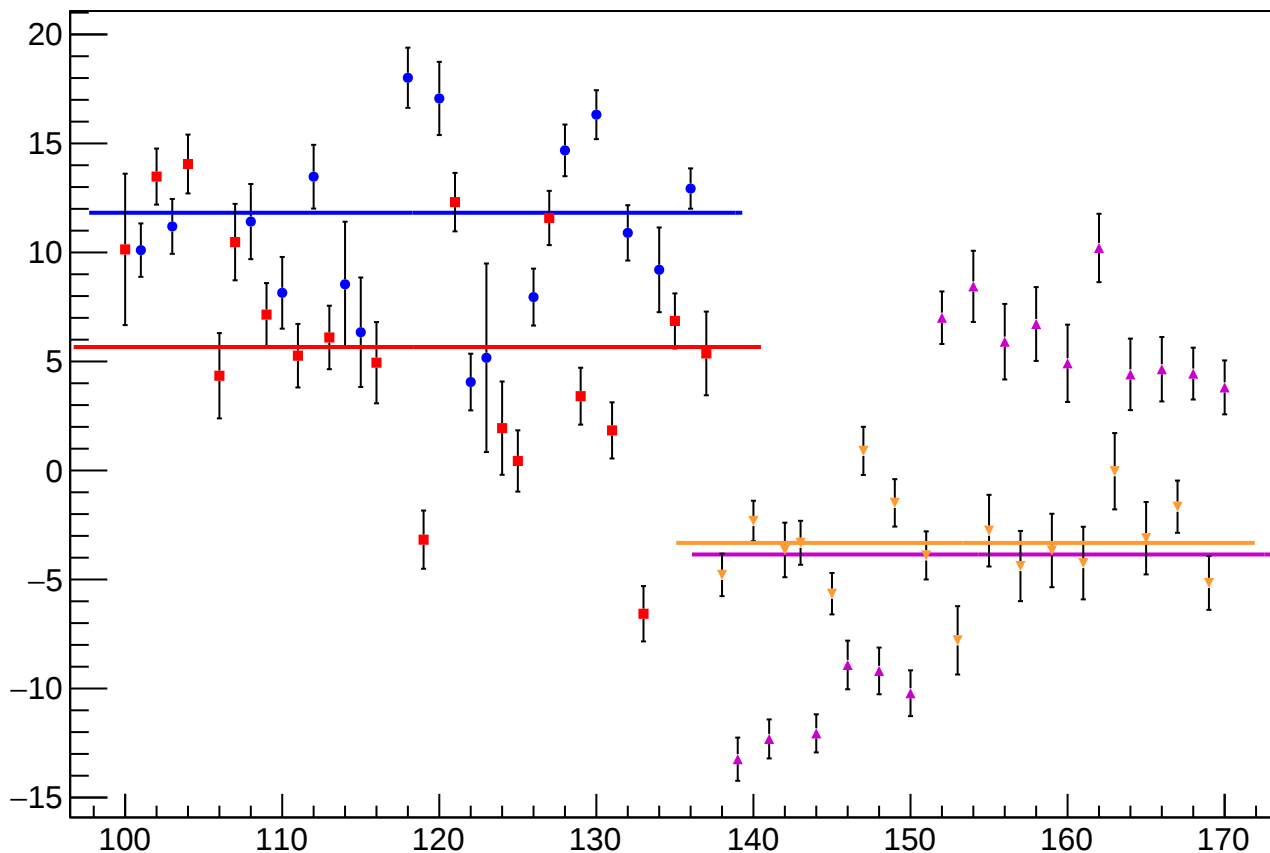
Right: 5185.701 ± 0.997 χ^2/NDF : 701457.6/35

In: 4789.480 ± 0.779 χ^2/NDF : 566809.0/32

Out: 4774.801 ± 0.765 χ^2/NDF : 625669.9/35

All: 4782.006 ± 0.546 χ^2/NDF : 1192659.7/68

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.321 ± 0.297 $\chi^2/\text{NDF}: 44.0/16$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -3.852 ± 0.304 $\chi^2/\text{NDF}: 808.6/15$

Left: -3.580 ± 0.212 $\chi^2/\text{NDF}: 854.2/32$

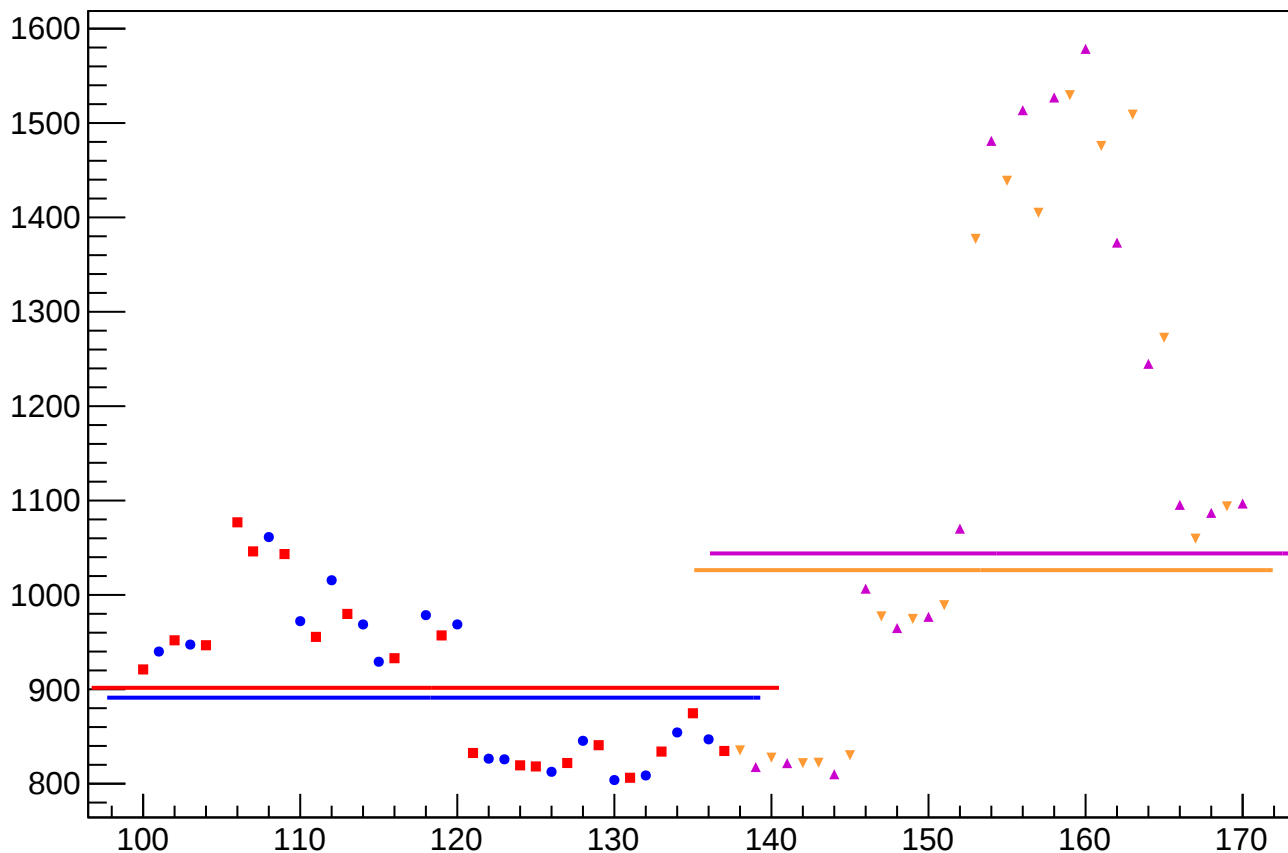
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 3.009 ± 0.228 $\chi^2/\text{NDF}: 2089.4/32$

Out: 0.584 ± 0.223 $\chi^2/\text{NDF}: 742.4/35$

All: 1.771 ± 0.159 $\chi^2/\text{NDF}: 2889.5/68$

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: 1043.974+/-0.215 χ^2/NDF :1155105.6/15

Left: 1034.906+/-0.150 χ^2/NDF : 2423297.4/32

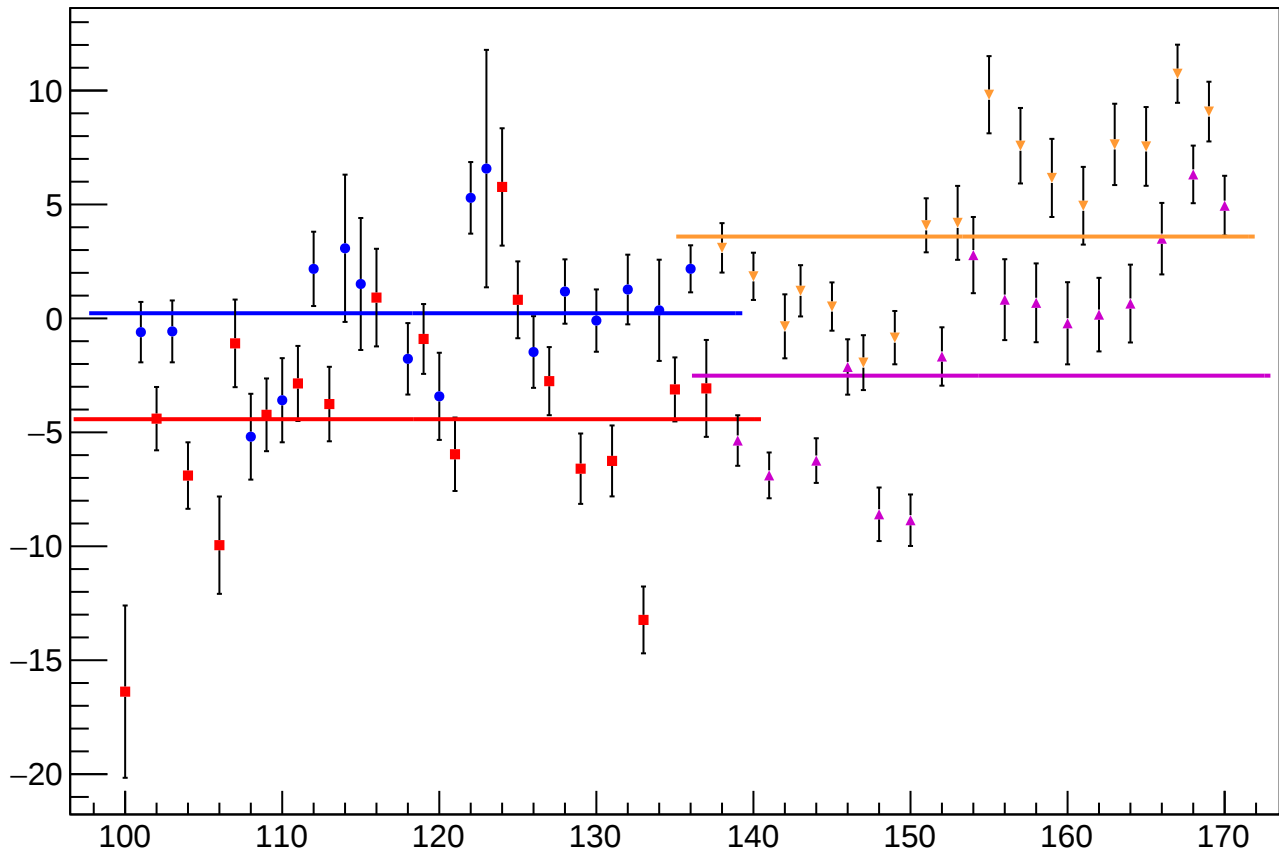
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 977.069+/-0.161 χ^2/NDF :1478046.2/32

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

All: 974.515+/-0.113 χ^2/NDF : 3011249.9/68

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 3.592 ± 0.321 χ^2/NDF : 141.0/16

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -2.512 ± 0.328 χ^2/NDF : 219.4/15

Left: 0.608 ± 0.229 χ^2/NDF : 537.5/32

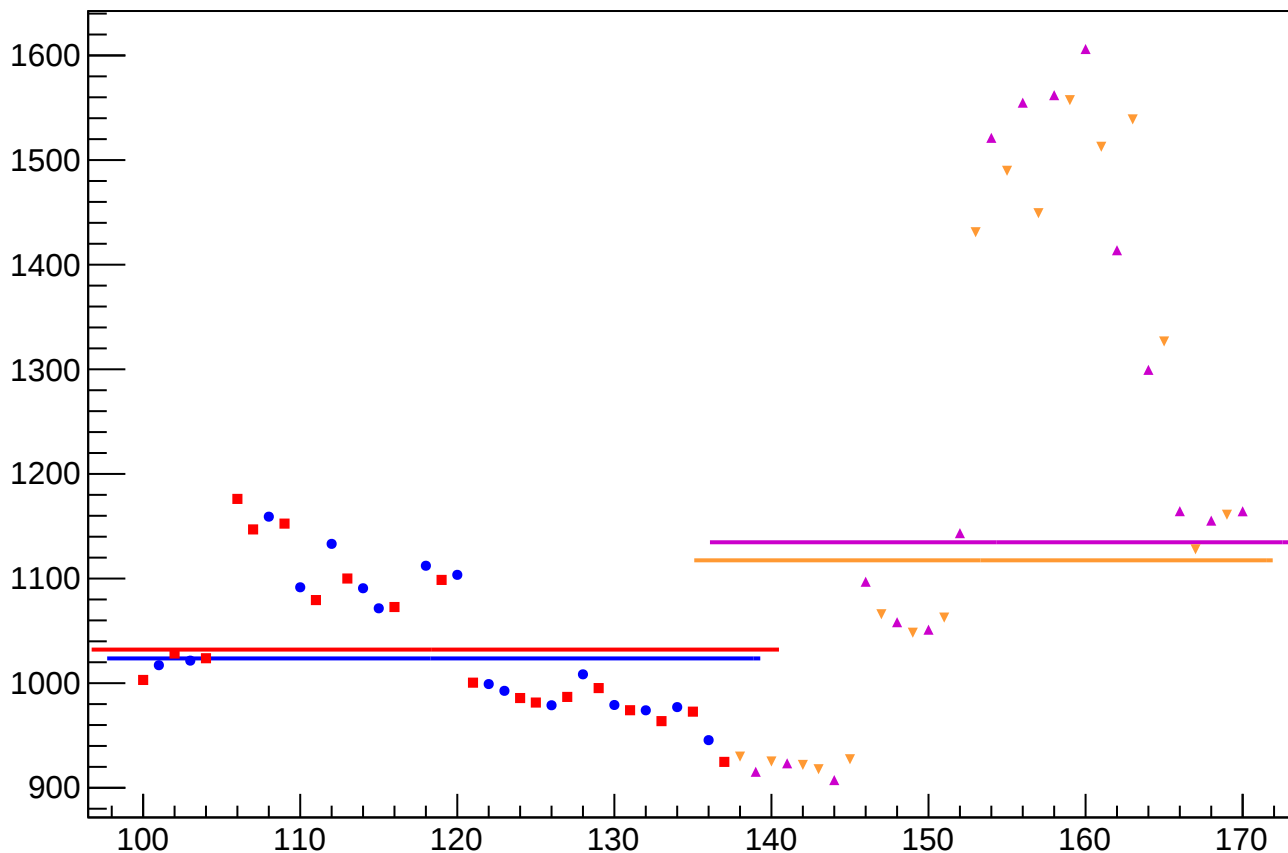
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -1.394 ± 0.252 χ^2/NDF : 286.4/32

Out: 0.326 ± 0.247 χ^2/NDF : 498.9/35

All: -0.515 ± 0.176 χ^2/NDF : 809.0/68

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655+/-0.279 χ^2/NDF : 52373.8/16

Left Out: 1117.421+/-0.227 χ^2/NDF : 943531.8/16

Right Out: 1032.107+/-0.273 χ^2/NDF : 59391.6/18

Left In: 1134.678+/-0.232 χ^2/NDF : 854322.5/15

Left: 1125.856+/-0.162 χ^2/NDF : 1800684.3/32

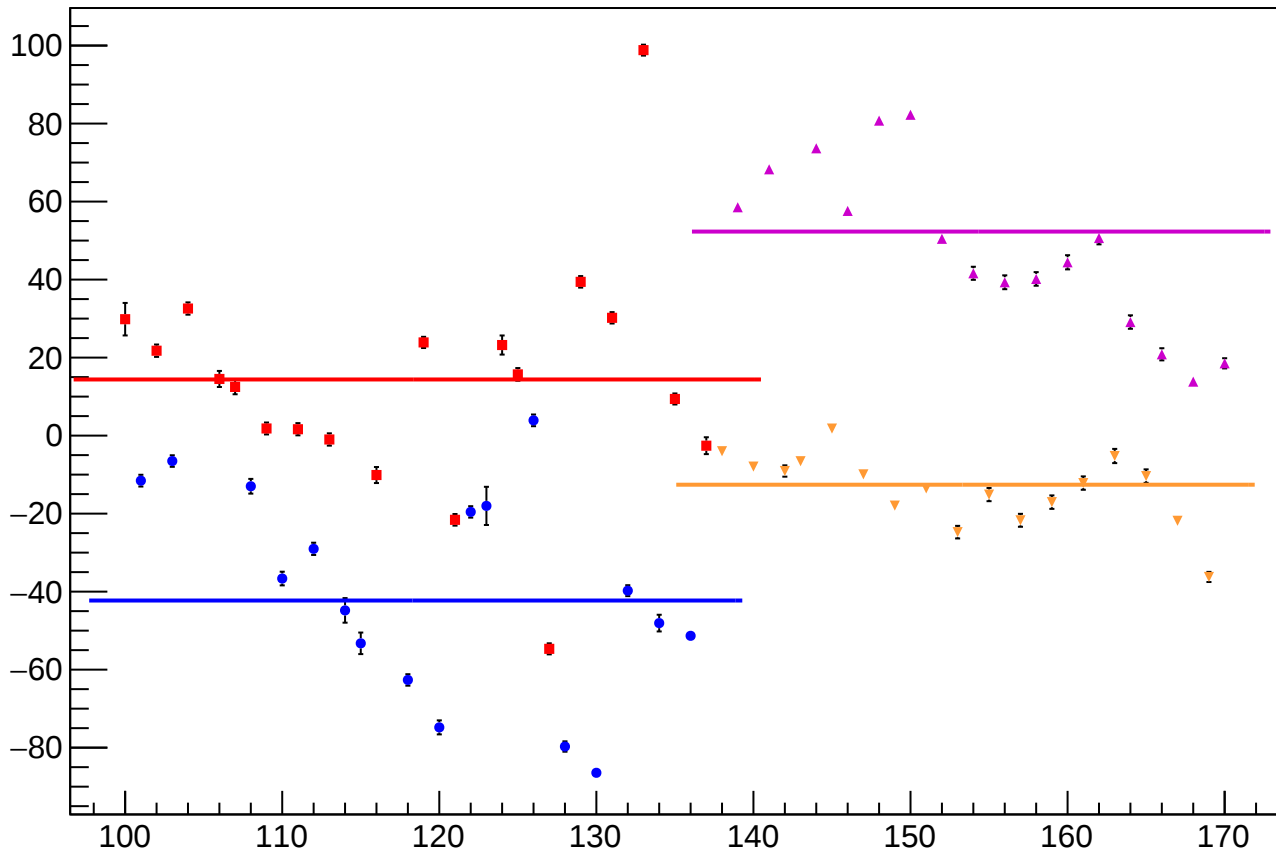
Right: 1027.970+/-0.195 χ^2/NDF : 112233.0/35

In: 1089.364+/-0.178 χ^2/NDF : 1000217.4/32

Out: 1082.654+/-0.175 χ^2/NDF : 1060595.1/35

All: 1085.936+/-0.125 χ^2/NDF : 2061535.1/68

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -12.587 ± 0.327 χ^2/NDF : 807.1/16

Right Out: 14.393 ± 0.378 χ^2/NDF : 7669.8/18

Left In: 52.309 ± 0.335 χ^2/NDF : 4193.8/15

Left: 19.038 ± 0.234 χ^2/NDF : 24226.7/32

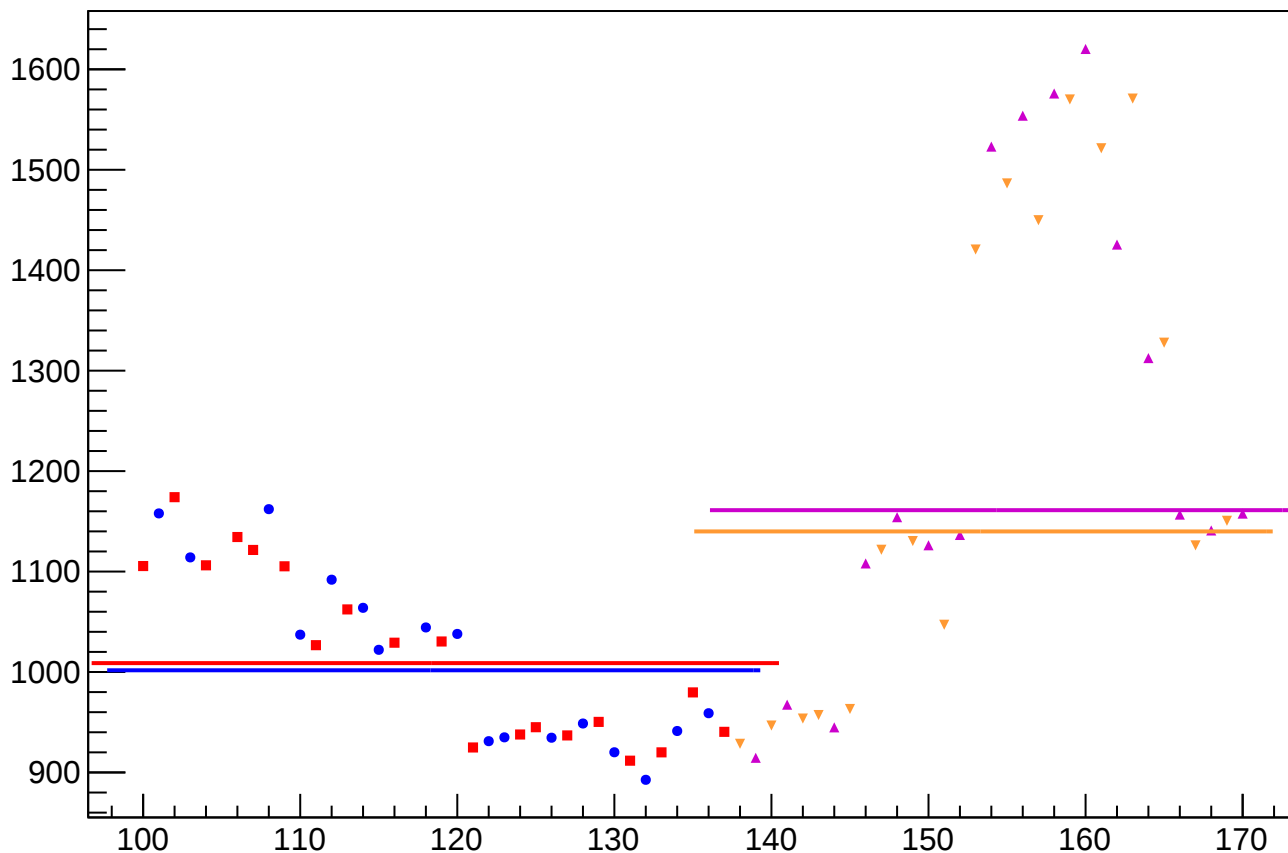
Right: -13.301 ± 0.271 χ^2/NDF : 23754.3/35

In: 11.791 ± 0.253 χ^2/NDF : 43446.3/32

Out: -1.066 ± 0.247 χ^2/NDF : 11388.8/35

All: 5.207 ± 0.177 χ^2/NDF : 56153.6/68

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: 1161.116 $\pm$ 0.237 χ^2 /NDF: 762748.0/15

Left: 1150.266 $\pm$ 0.165 χ^2 /NDF: 1628179.0/32

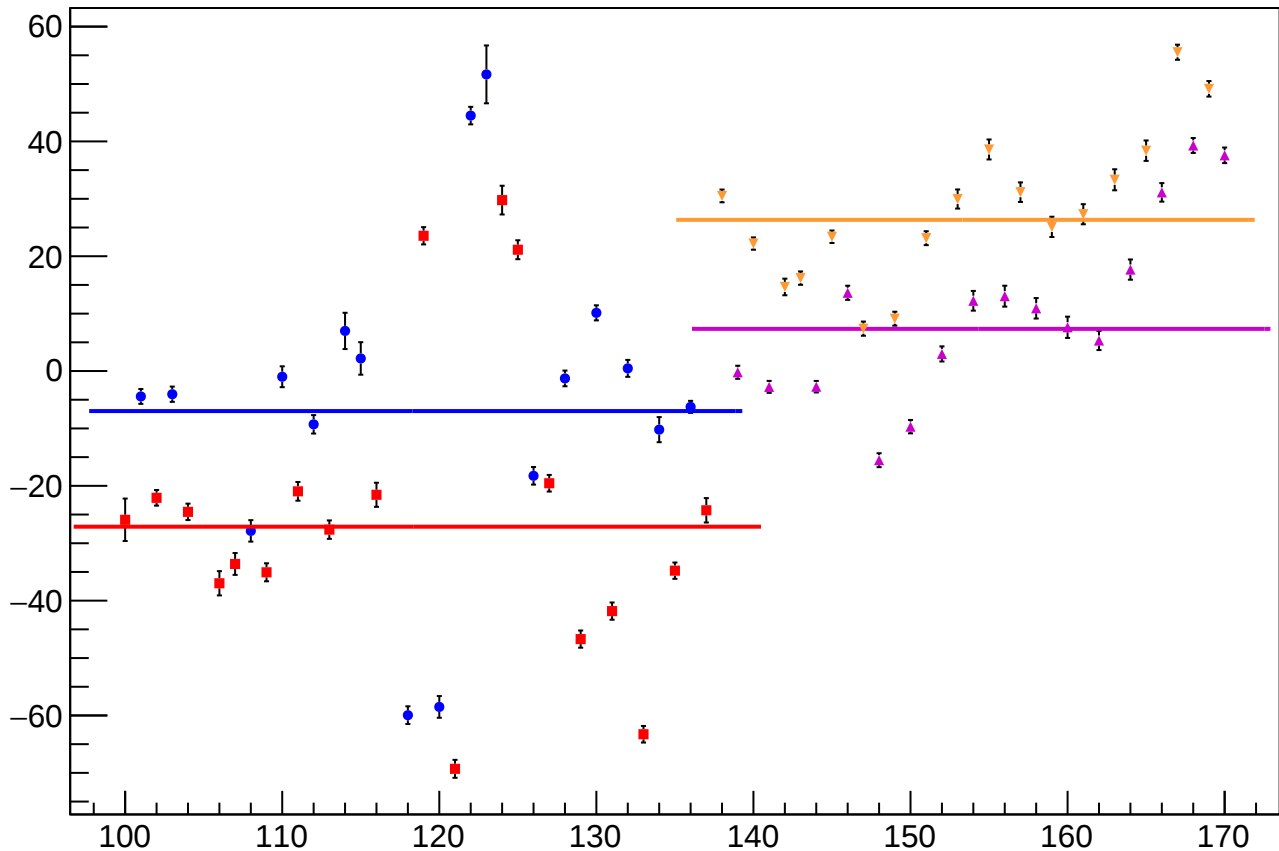
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1092.829 $\pm$ 0.179 χ^2 /NDF: 1052081.4/32

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

All: 1088.291 $\pm$ 0.125 χ^2 /NDF: 2147542.5/68

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: 7.345 ± 0.338 χ^2/NDF : 2211.0/15

Left: 17.062 ± 0.236 χ^2/NDF : 5347.5/32

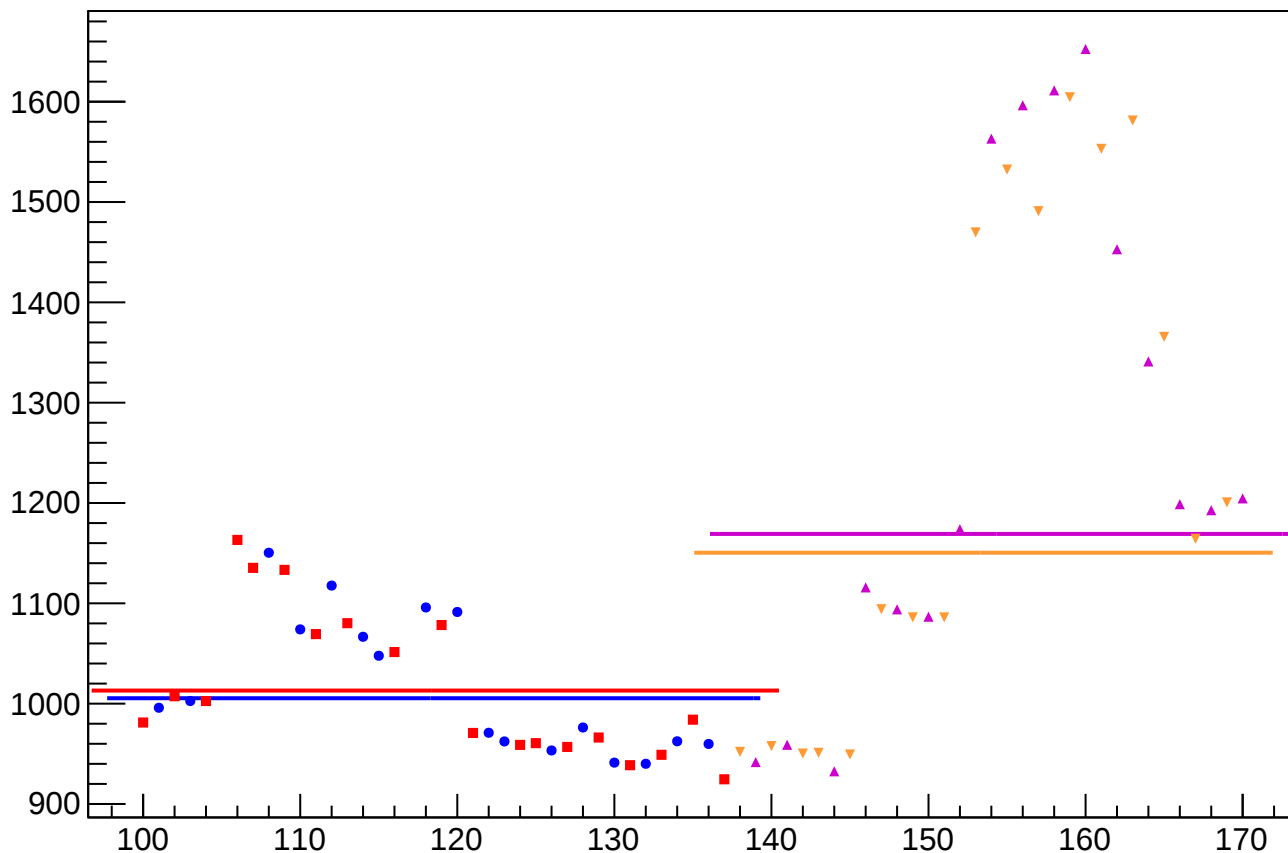
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 1.169 ± 0.255 χ^2/NDF : 6622.6/32

Out: 3.317 ± 0.249 χ^2/NDF : 17093.4/35

All: 2.267 ± 0.178 χ^2/NDF : 23752.4/68

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409+/-0.274 χ^2/NDF : 54586.0/16

Left Out: 1150.466+/-0.233 χ^2/NDF : 939361.7/16

Right Out: 1013.064+/-0.268 χ^2/NDF : 63265.7/18

Left In: 1169.174+/-0.239 χ^2/NDF : 846646.7/15

Left: 1159.603+/-0.167 χ^2/NDF : 1789144.8/32

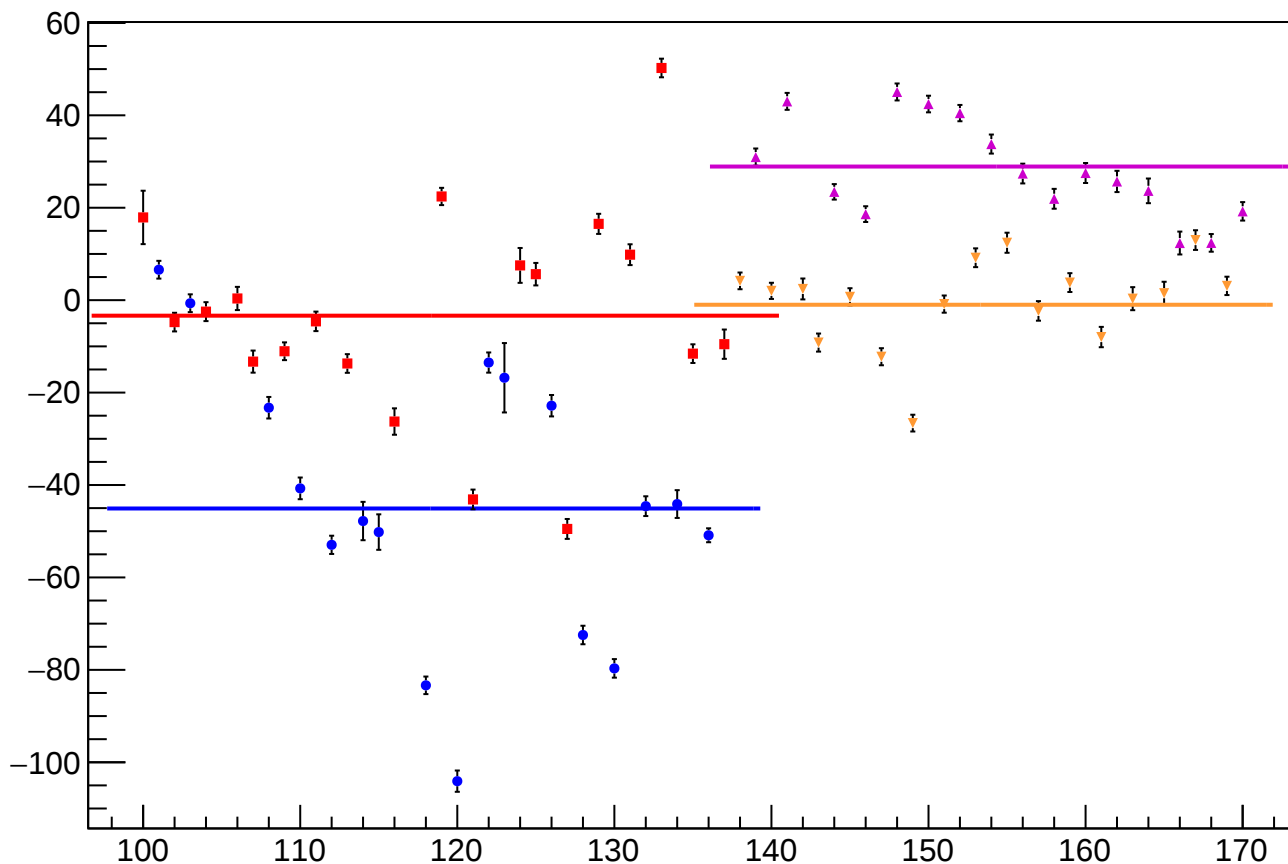
Right: 1009.320+/-0.192 χ^2/NDF : 118249.5/35

In: 1098.535+/-0.180 χ^2/NDF : 1103888.3/32

Out: 1091.292+/-0.176 χ^2/NDF : 1151822.2/35

All: 1094.832+/-0.126 χ^2/NDF : 2256537.1/68

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: 28.914 +/- 0.493 χ^2/NDF : 450.2/15

Left: 13.838 +/- 0.347 χ^2/NDF : 2703.1/32

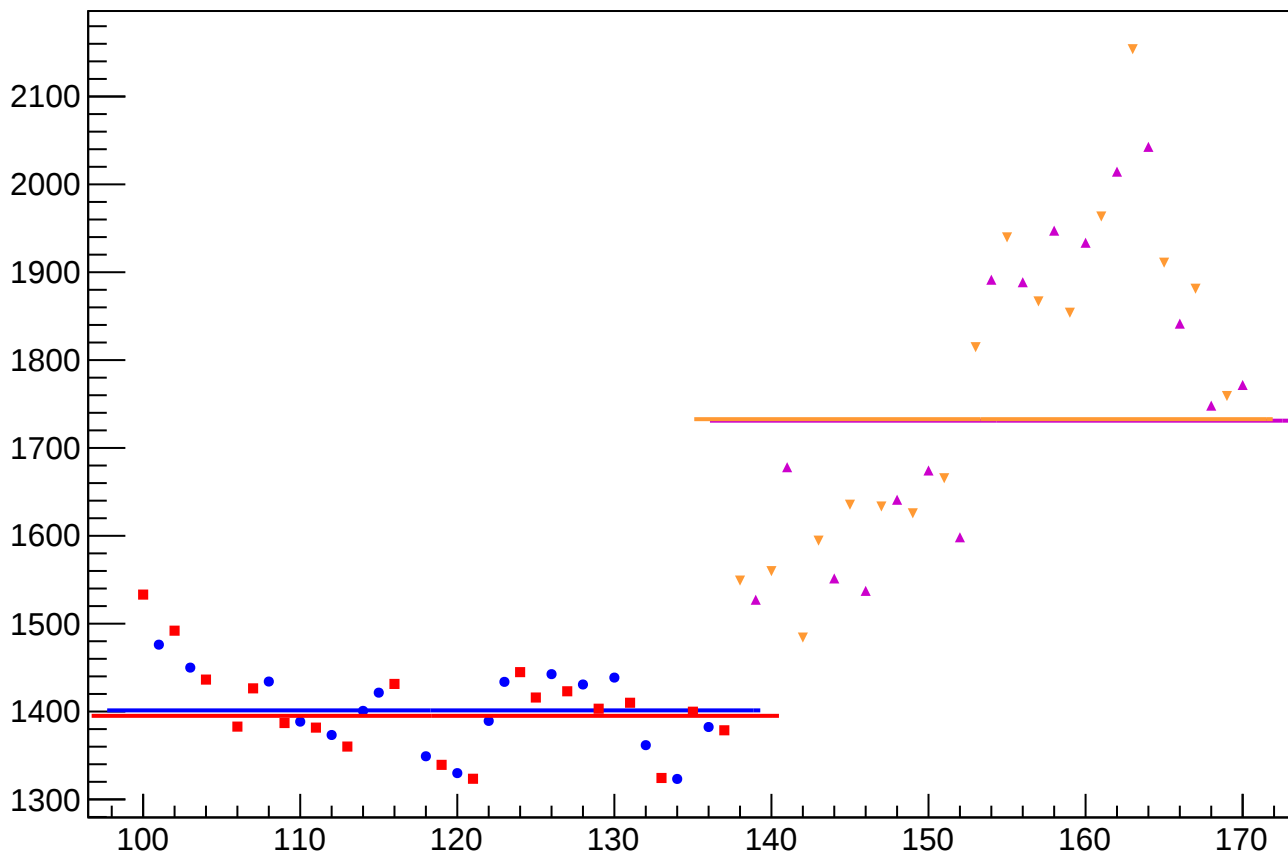
Right: -23.517 +/- 0.375 χ^2/NDF : 8332.8/35

In: -4.728 +/- 0.364 χ^2/NDF : 13939.8/32

Out: -2.098 +/- 0.357 χ^2/NDF : 2412.7/35

All: -3.387 +/- 0.255 χ^2/NDF : 16379.1/68

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 $\pm$ 0.382 χ^2 /NDF: 12852.1/16

Left Out: 1732.761 $\pm$ 0.346 χ^2 /NDF: 231193.1/16

Right Out: 1395.105 $\pm$ 0.369 χ^2 /NDF: 15520.0/18

Left In: 1731.044 $\pm$ 0.348 χ^2 /NDF: 216203.9/15

Left: 1731.909 $\pm$ 0.245 χ^2 /NDF: 447409.2/32

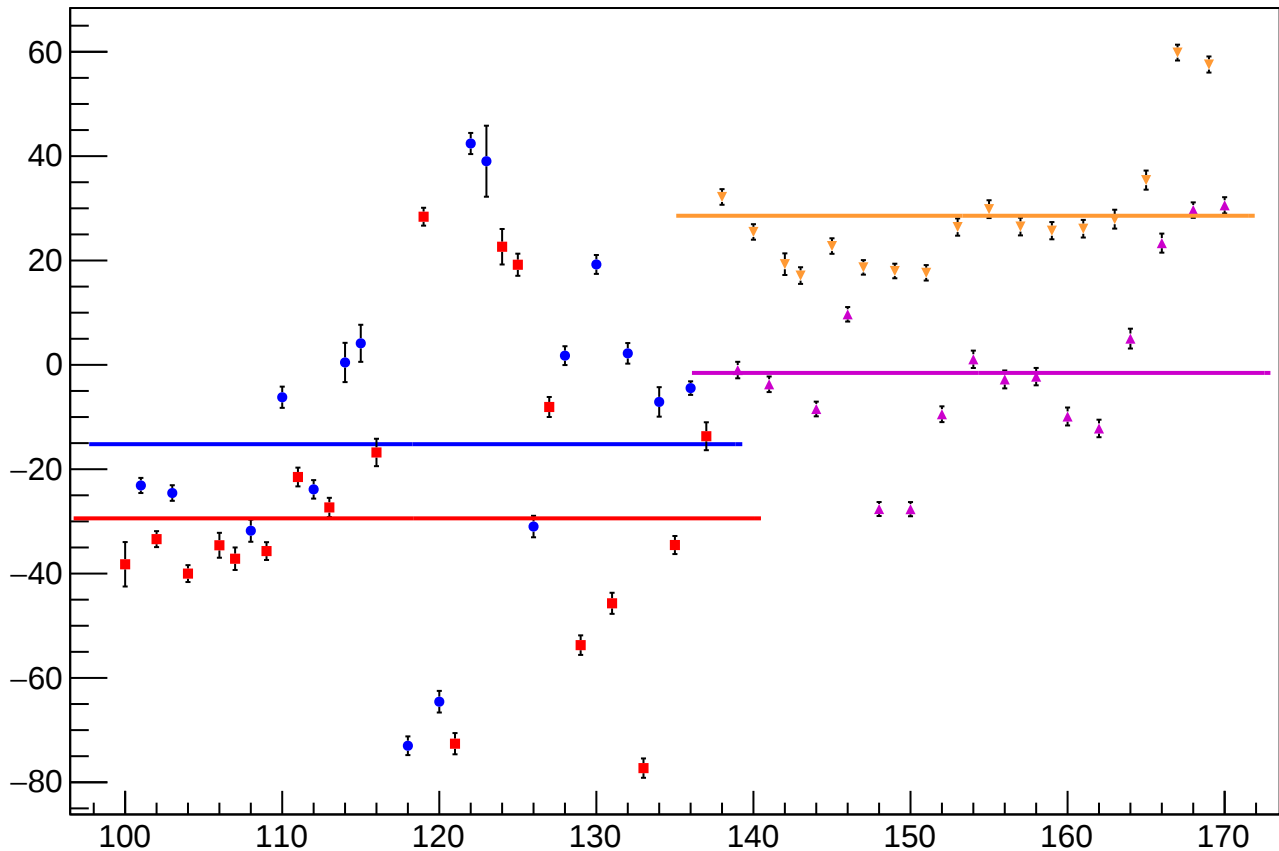
Right: 1398.102 $\pm$ 0.265 χ^2 /NDF: 28508.5/35

In: 1581.129 $\pm$ 0.257 χ^2 /NDF: 636195.7/32

Out: 1574.967 $\pm$ 0.252 χ^2 /NDF: 692791.5/35

All: 1577.986 $\pm$ 0.180 χ^2 /NDF: 1329279.6/68

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: -1.543 ± 0.389 χ^2/NDF : 2002.7/15

Left: 13.614 ± 0.274 χ^2/NDF : 6078.1/32

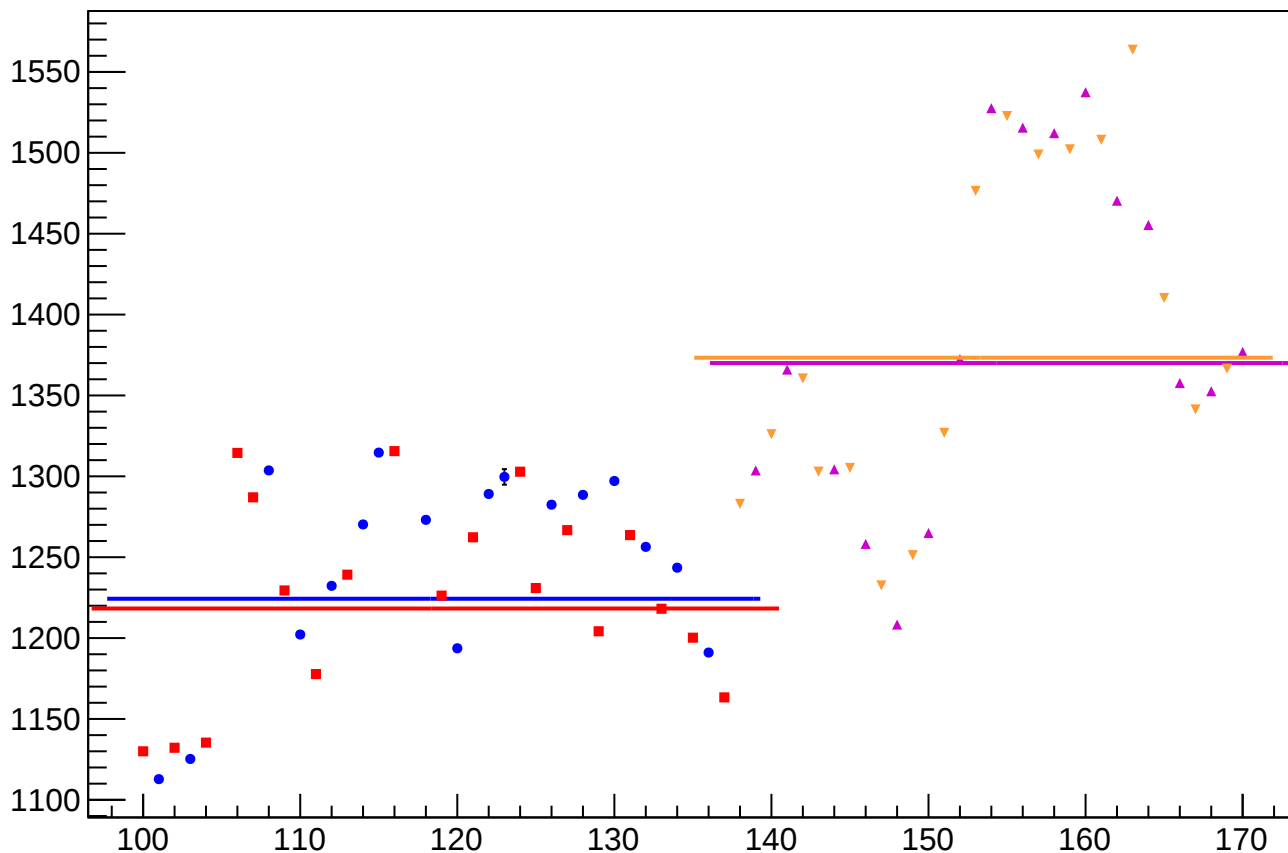
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -7.068 ± 0.300 χ^2/NDF : 5863.6/32

Out: 4.335 ± 0.295 χ^2/NDF : 14011.0/35

All: -1.265 ± 0.210 χ^2/NDF : 20608.6/68

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: 1370.033+/-0.275 χ^2/NDF : 139208.0/15

Left: 1371.691+/-0.194 χ^2/NDF : 277242.9/32

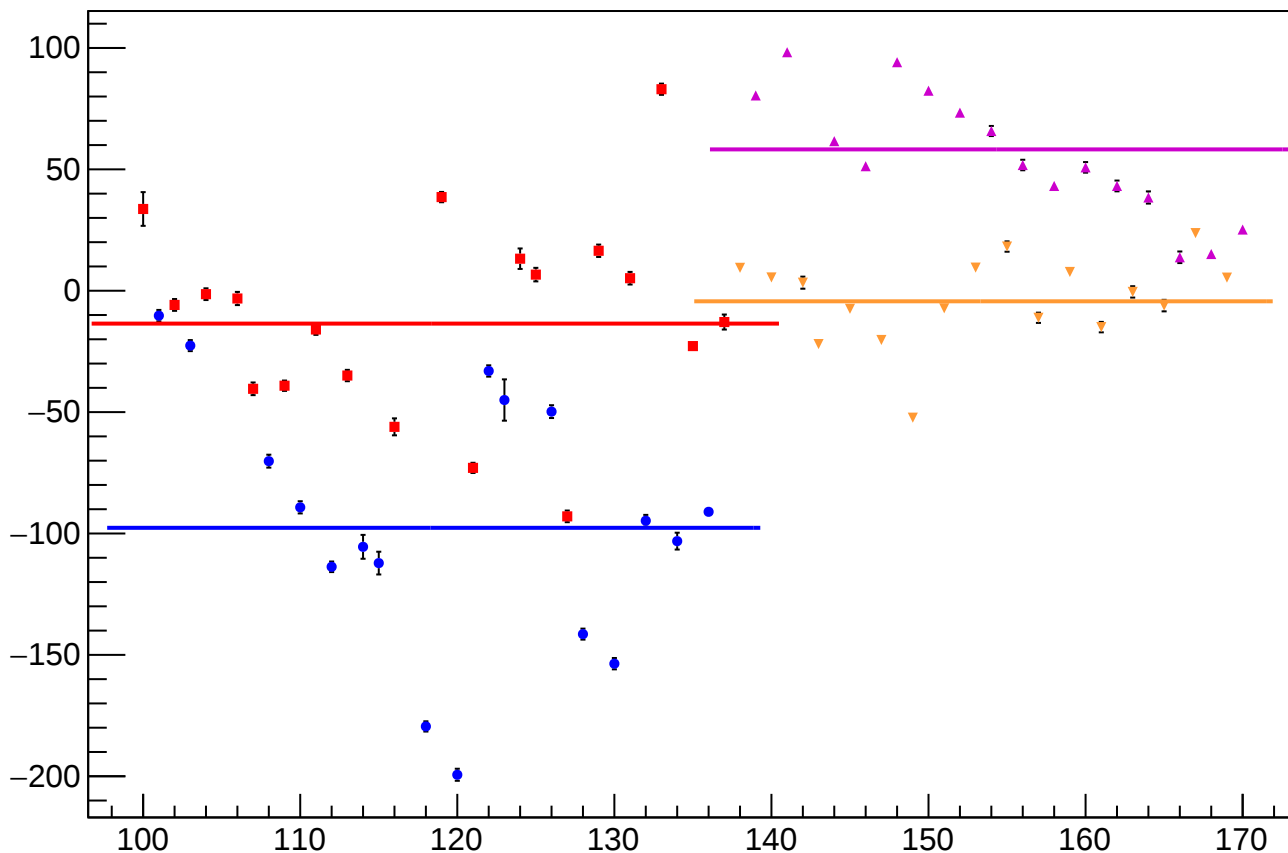
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1311.089+/-0.212 χ^2/NDF : 291434.5/32

Out: 1308.515+/-0.209 χ^2/NDF : 300000.0/35

All: 1309.778+/-0.149 χ^2/NDF : 591509.3/68

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 $\pm$ 0.601 χ^2/NDF : 7936.6/16

Left Out: -4.353 $\pm$ 0.487 χ^2/NDF :1396.4/16

Right Out: -13.538 $\pm$ 0.579 χ^2/NDF : 5128.2/18

Left In: 58.220 $\pm$ 0.493 χ^2/NDF :2622.3/15

Left: 26.551 $\pm$ 0.346 χ^2/NDF : 12184.6/32

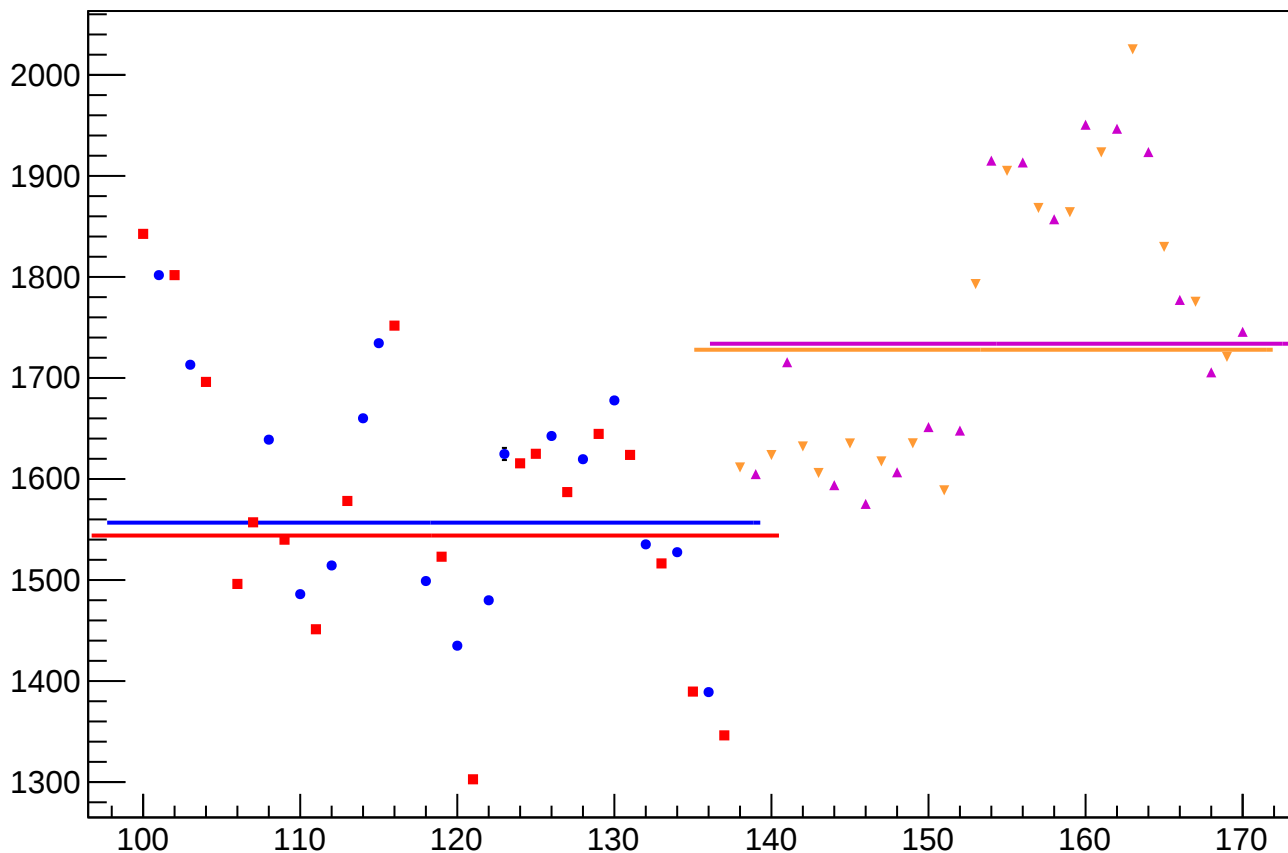
Right: -54.035 $\pm$ 0.417 χ^2/NDF : 23213.1/35

In: -4.381 $\pm$ 0.381 χ^2/NDF :50770.0/32

Out: -8.153 $\pm$ 0.373 χ^2/NDF :6672.0/35

All: -6.309 $\pm$ 0.266 χ^2/NDF : 57492.0/68

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: 1733.898 $\pm$ 0.348 χ^2 /NDF:144381.0/15

Left: 1730.883 $\pm$ 0.245 χ^2 /NDF: 285991.8/32

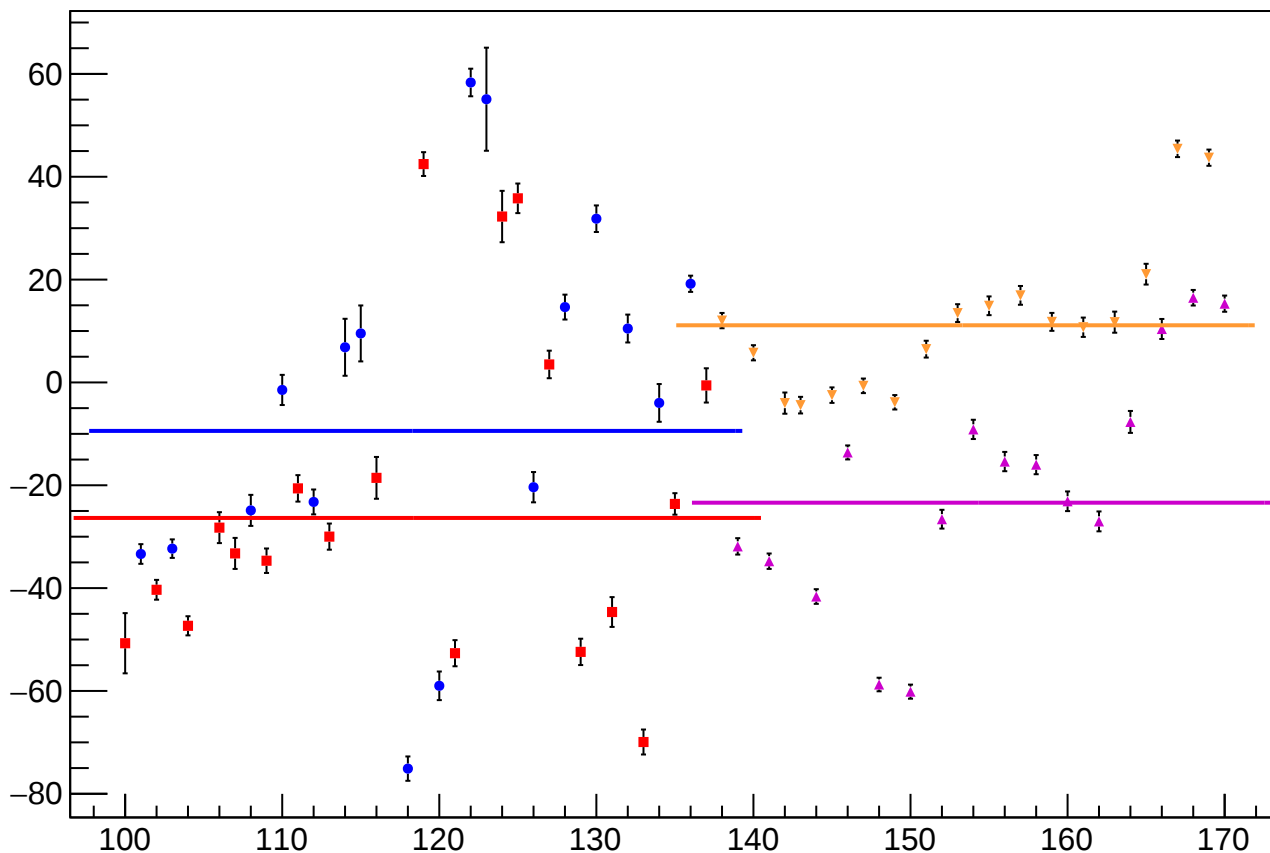
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1662.774 $\pm$ 0.269 χ^2 /NDF:329740.2/32

Out: 1651.867 $\pm$ 0.263 χ^2 /NDF:360122.0/35

All: 1657.198 $\pm$ 0.188 χ^2 /NDF: 690699.8/68

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: -23.389 ± 0.409 χ^2/NDF : 3487.3/15

Left: -5.894 ± 0.287 χ^2/NDF : 8460.0/32

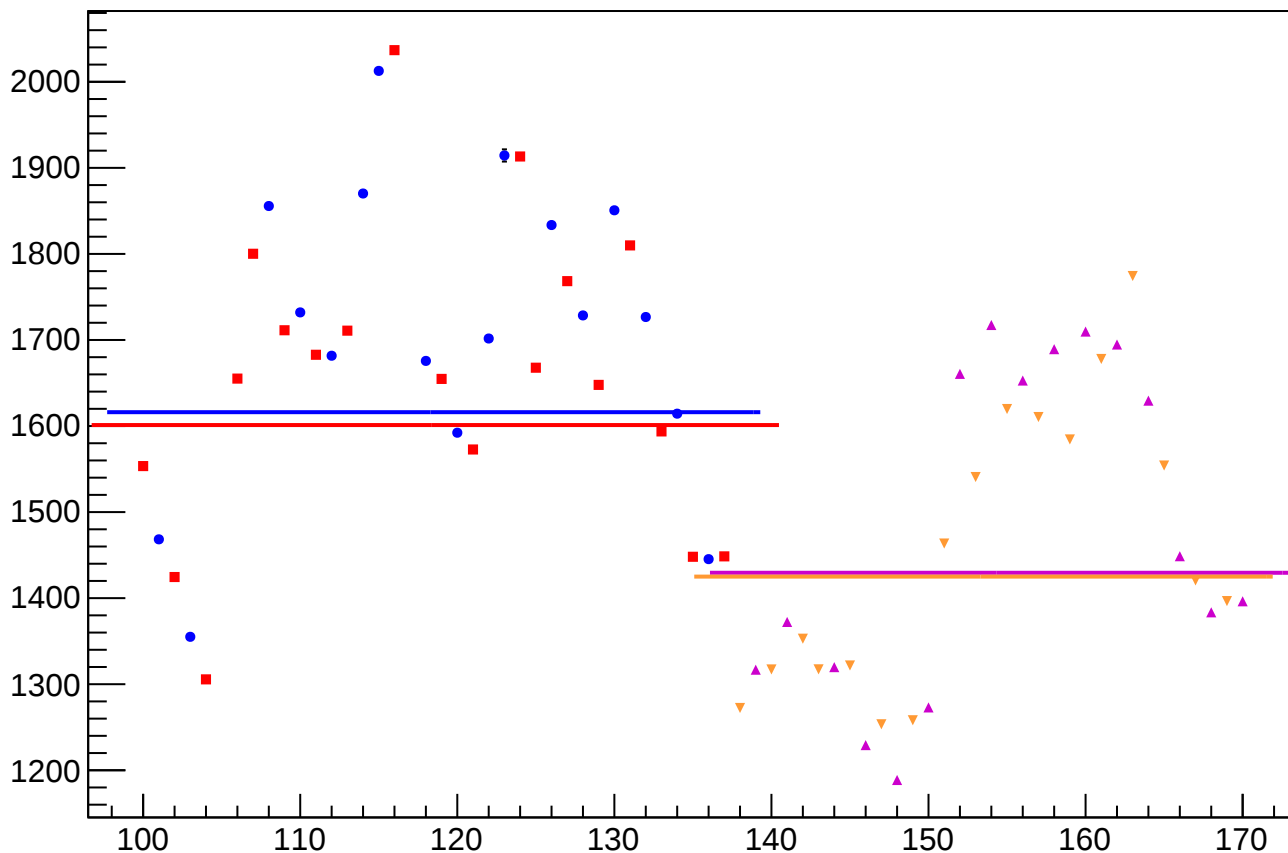
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -19.224 ± 0.342 χ^2/NDF : 6759.9/32

Out: -0.451 ± 0.335 χ^2/NDF : 6498.5/35

All: -9.635 ± 0.239 χ^2/NDF : 14795.8/68

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1425.033 $\pm$ 0.285 χ^2 /NDF: 283217.9/16

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1429.489 $\pm$ 0.289 χ^2 /NDF: 407902.0/15

Left: 1427.230 $\pm$ 0.203 χ^2 /NDF: 691240.6/32

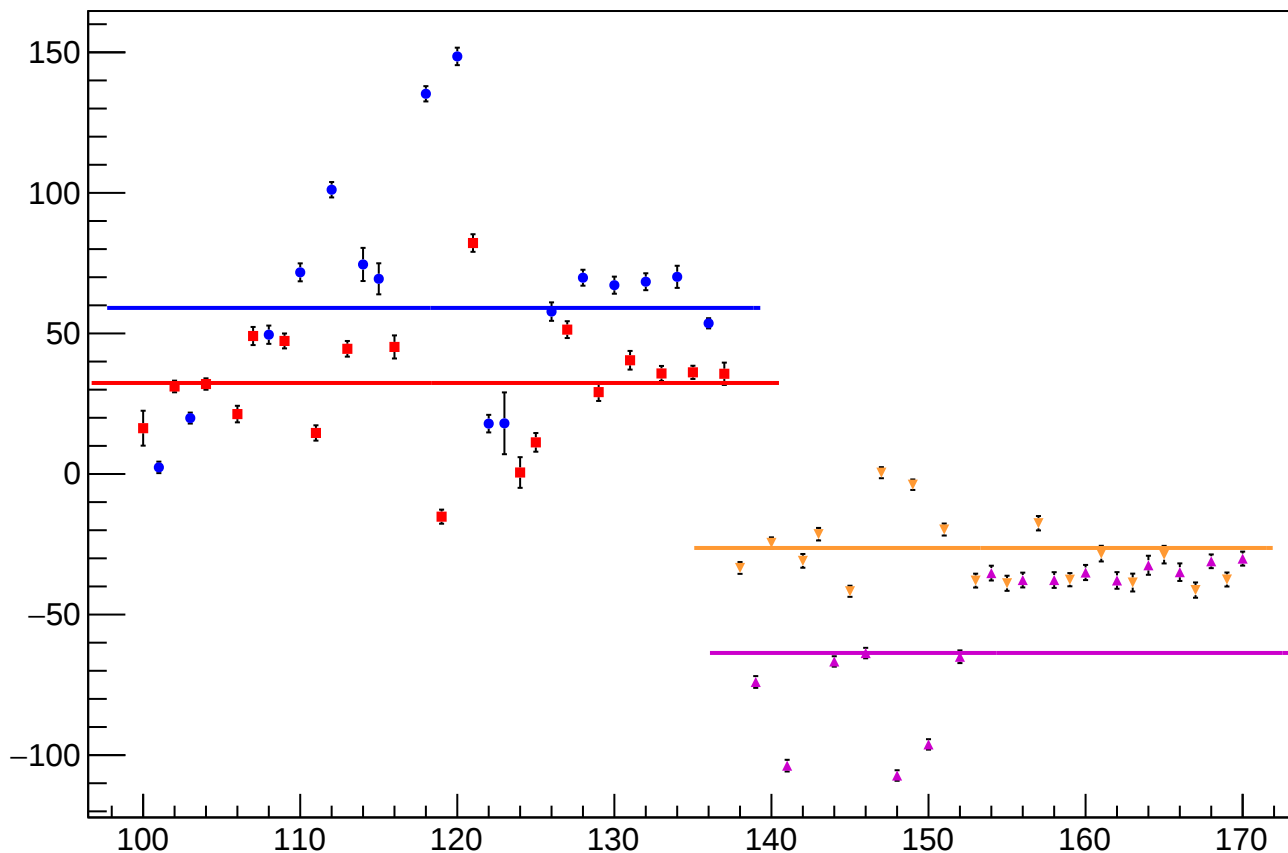
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1485.163 $\pm$ 0.242 χ^2 /NDF: 682011.1/32

Out: 1479.390 $\pm$ 0.237 χ^2 /NDF: 554876.0/35

All: 1482.214 $\pm$ 0.169 χ^2 /NDF: 1237177.9/68

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: -63.653 +/- 0.578 χ^2/NDF : 2262.2/15

Left: -44.567 +/- 0.404 χ^2/NDF : 4964.3/32

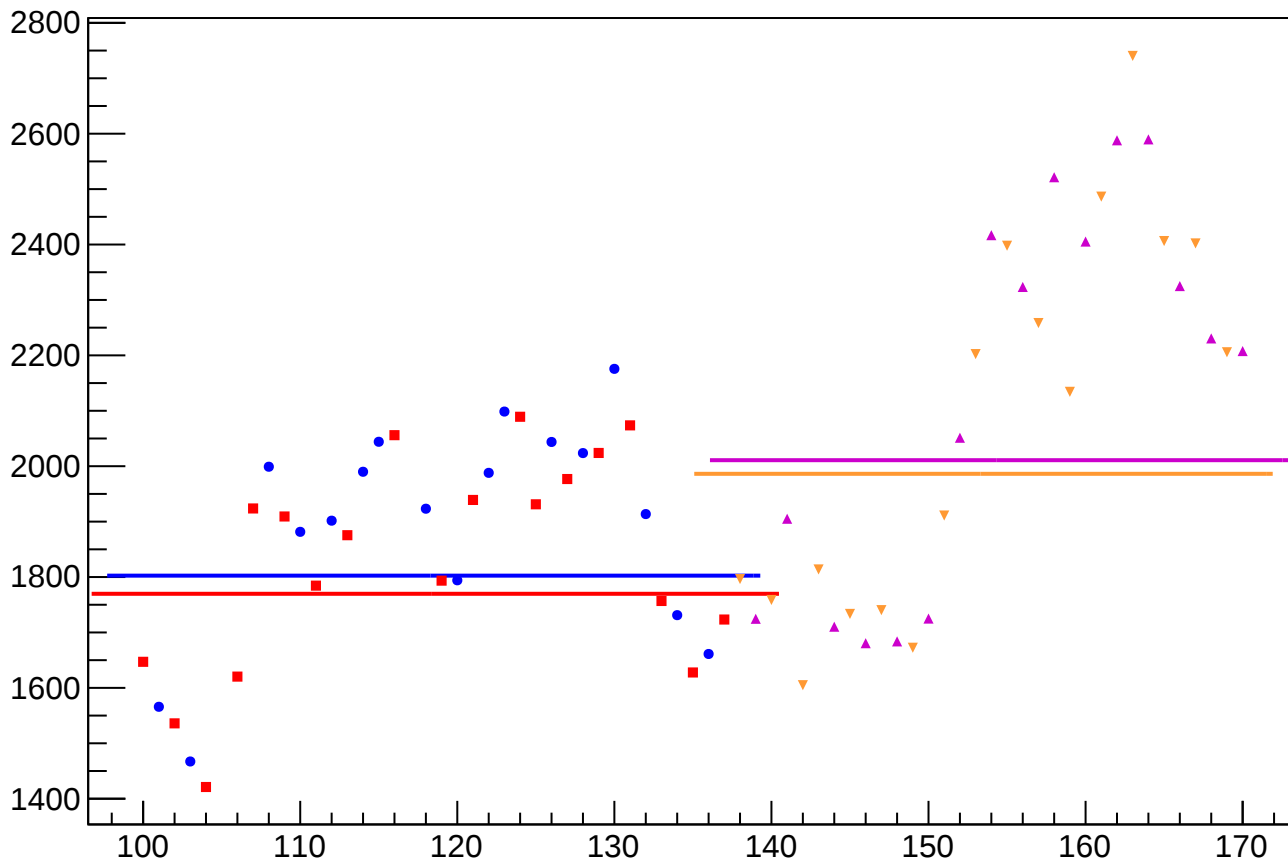
Right: 45.088 +/- 0.483 χ^2/NDF : 4948.8/35

In: -13.884 +/- 0.445 χ^2/NDF : 23860.4/32

Out: -1.769 +/- 0.431 χ^2/NDF : 5970.0/35

All: -7.627 +/- 0.310 χ^2/NDF : 30212.6/68

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: 2010.850+/-0.408 χ^2/NDF : 636044.6/15

Left: 1998.282+/-0.286 χ^2/NDF : 1232526.5/32

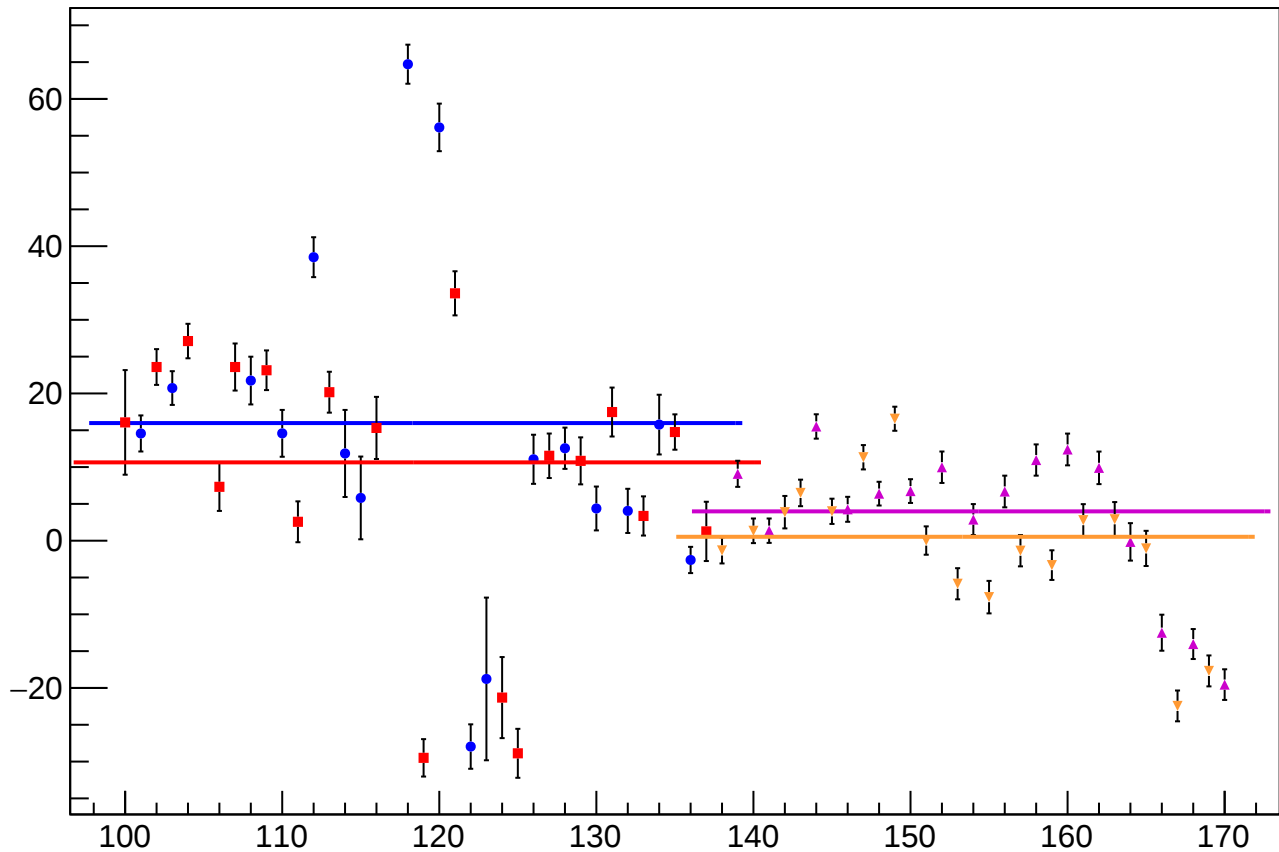
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1926.374+/-0.315 χ^2/NDF : 925586.6/32

Out: 1895.740+/-0.305 χ^2/NDF : 895307.9/35

All: 1910.552+/-0.219 χ^2/NDF : 1825780.5/68

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 χ^2/NDF : 938.4/16

Left Out: 0.531 ± 0.473 χ^2/NDF : 383.1/16

Right Out: 10.638 ± 0.693 χ^2/NDF : 642.1/18

Left In: 3.983 ± 0.484 χ^2/NDF : 361.5/15

Left: 2.217 ± 0.339 χ^2/NDF : 770.5/32

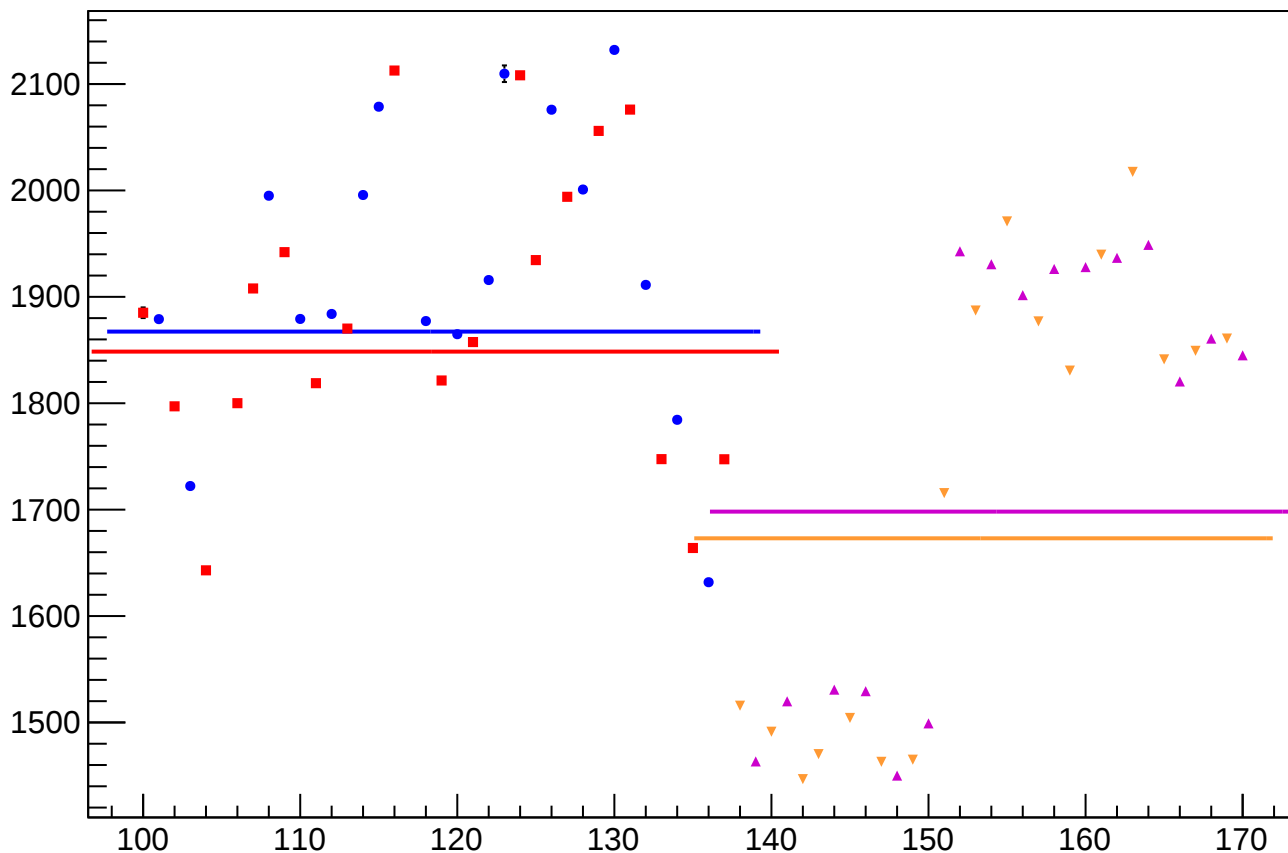
Right: 13.200 ± 0.500 χ^2/NDF : 1608.9/35

In: 7.708 ± 0.402 χ^2/NDF : 1490.3/32

Out: 3.744 ± 0.391 χ^2/NDF : 1170.1/35

All: 5.670 ± 0.280 χ^2/NDF : 2710.3/68

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 ± 0.510 χ^2/NDF : 80926.4/16

Left Out: 1673.064 ± 0.335 χ^2/NDF : 372156.9/16

Right Out: 1848.532 ± 0.490 χ^2/NDF : 72527.3/18

Left In: 1698.145 ± 0.343 χ^2/NDF : 361162.2/15

Left: 1685.316 ± 0.239 χ^2/NDF : 736061.7/32

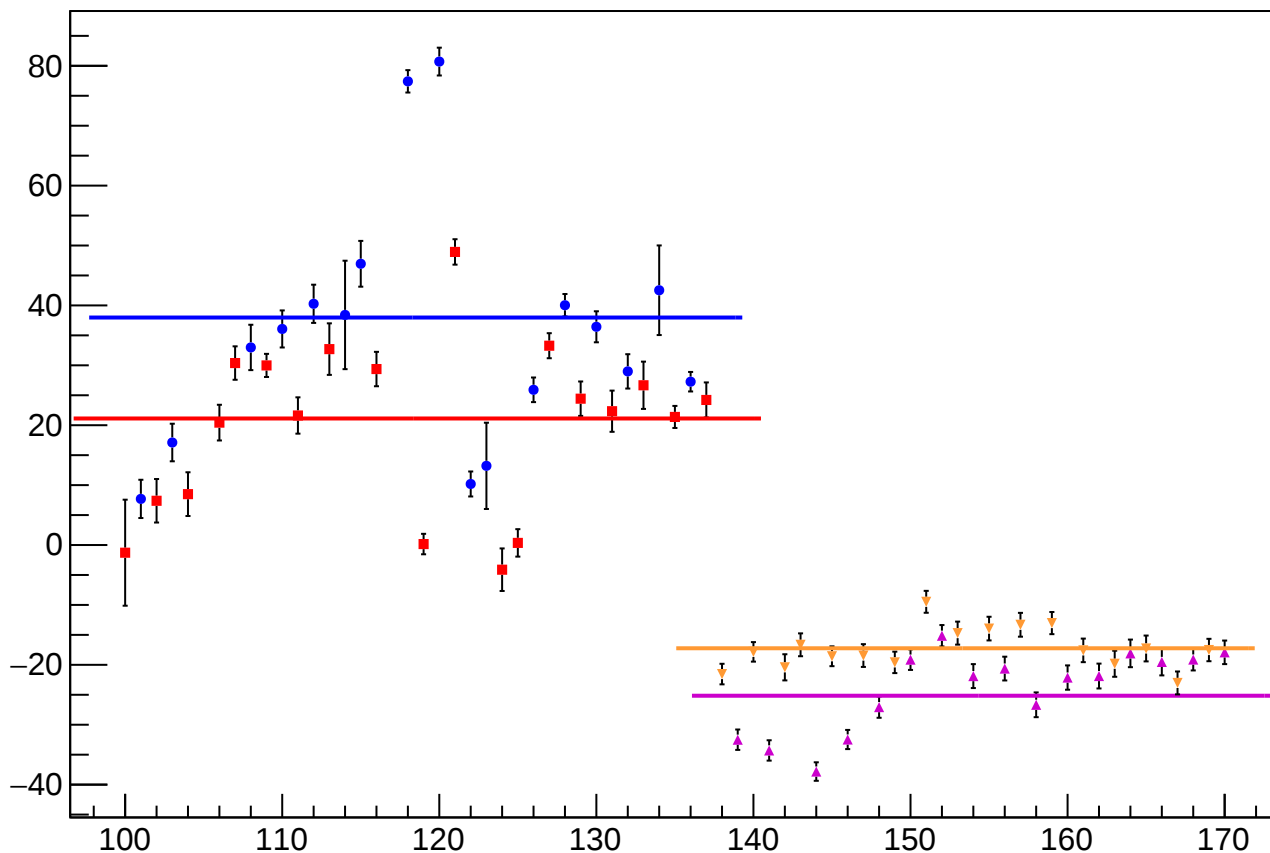
Right: 1857.561 ± 0.354 χ^2/NDF : 154160.4/35

In: 1750.704 ± 0.284 χ^2/NDF : 517884.5/32

Out: 1728.852 ± 0.276 χ^2/NDF : 532051.6/35

All: 1739.468 ± 0.198 χ^2/NDF : 1052971.8/68

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 χ^2/NDF : 1204.3/16

Left Out: -17.236 ± 0.458 χ^2/NDF : 53.6/16

Right Out: 21.124 ± 0.608 χ^2/NDF : 573.6/18

Left In: -25.159 ± 0.465 χ^2/NDF : 234.1/15

Left: -21.139 ± 0.326 χ^2/NDF : 435.2/32

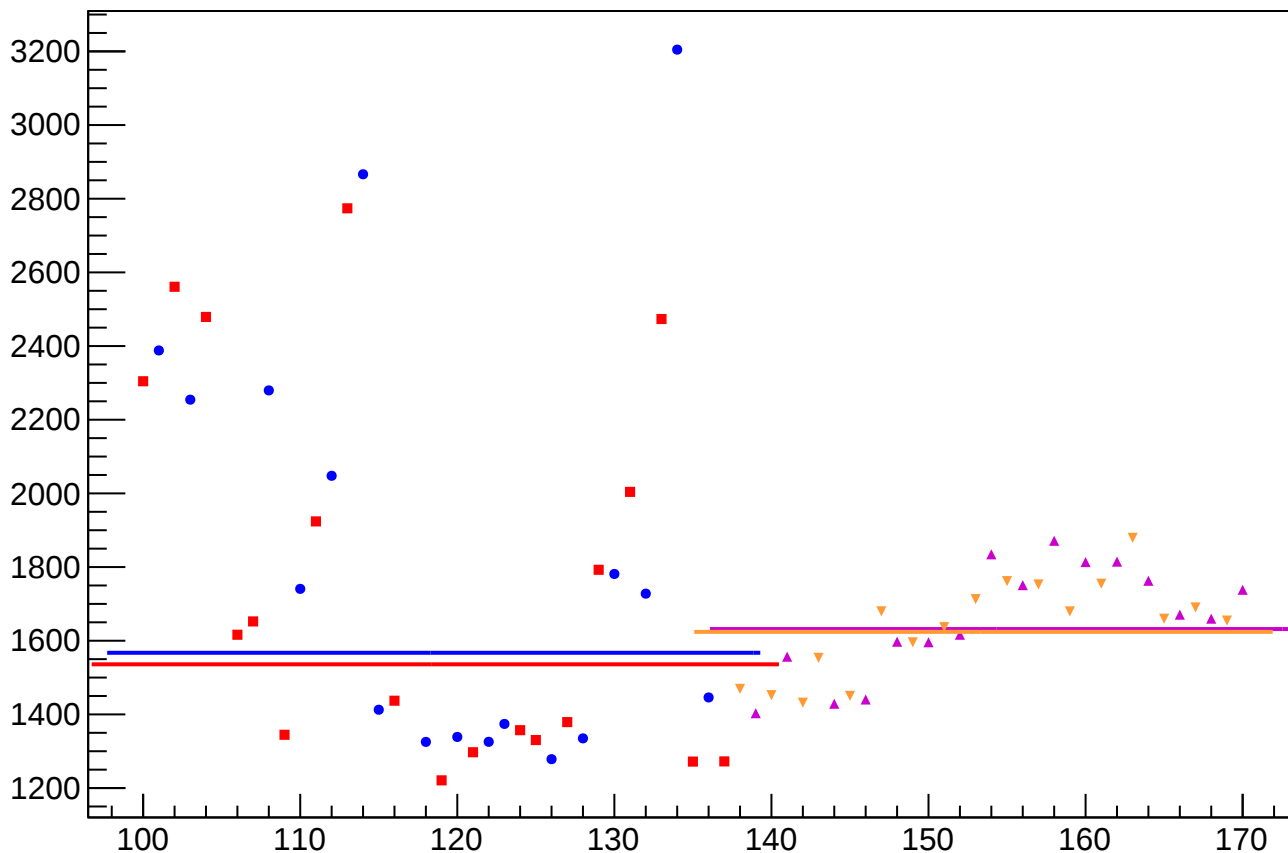
Right: 29.159 ± 0.440 χ^2/NDF : 2143.8/35

In: -3.246 ± 0.375 χ^2/NDF : 7845.6/32

Out: -3.365 ± 0.366 χ^2/NDF : 3165.6/35

All: -3.307 ± 0.262 χ^2/NDF : 11011.3/68

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: 1631.732 $\pm$ 0.329 χ^2/NDF : 204504.7/15

Left: 1627.879 $\pm$ 0.231 χ^2/NDF : 349998.4/32

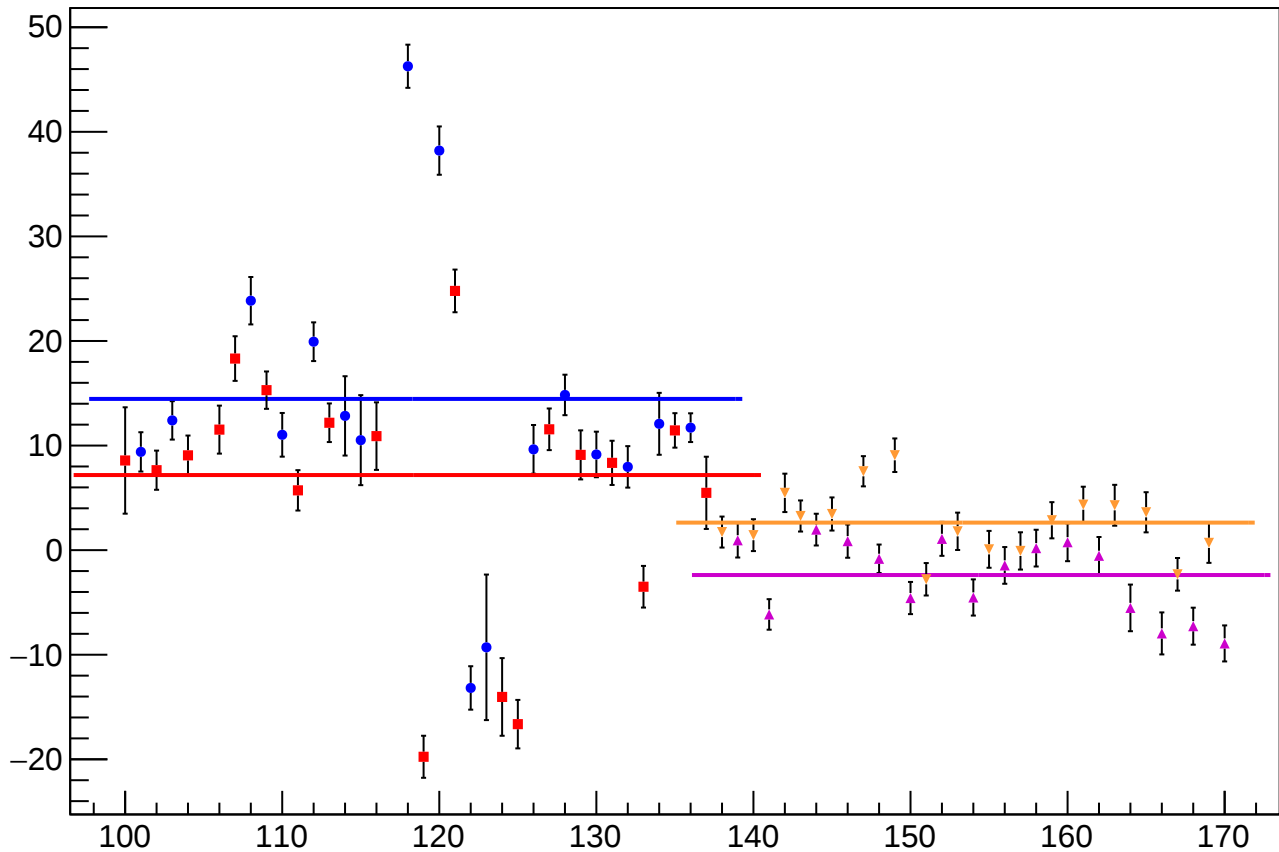
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1609.380 $\pm$ 0.266 χ^2/NDF : 891289.1/32

Out: 1592.256 $\pm$ 0.259 χ^2/NDF : 1054141.8/35

All: 1600.594 $\pm$ 0.185 χ^2/NDF : 1947565.1/68

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.633 ± 0.403 $\chi^2/\text{NDF}: 61.4/16$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -2.379 ± 0.418 $\chi^2/\text{NDF}: 70.7/15$

Left: 0.221 ± 0.290 $\chi^2/\text{NDF}: 206.5/32$

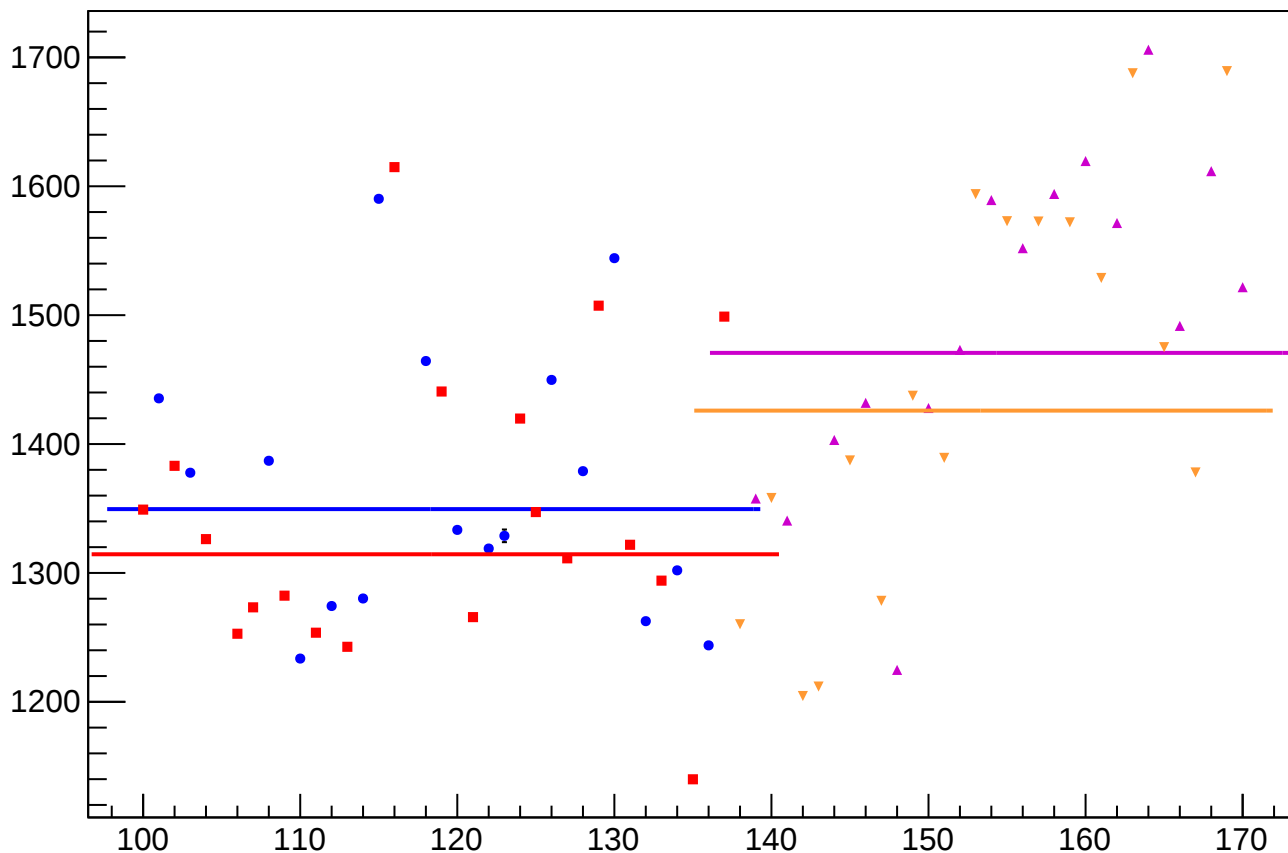
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 4.190 ± 0.327 $\chi^2/\text{NDF}: 1298.5/32$

Out: 4.448 ± 0.312 $\chi^2/\text{NDF}: 607.9/35$

All: 4.325 ± 0.226 $\chi^2/\text{NDF}: 1906.7/68$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 ± 0.370 χ^2/NDF : 64667.6/16

Left Out: 1425.949 ± 0.285 χ^2/NDF : 266403.3/16

Right Out: 1314.485 ± 0.350 χ^2/NDF : 80952.7/18

Left In: 1470.735 ± 0.296 χ^2/NDF : 177504.2/15

Left: 1447.501 ± 0.205 χ^2/NDF : 455794.0/32

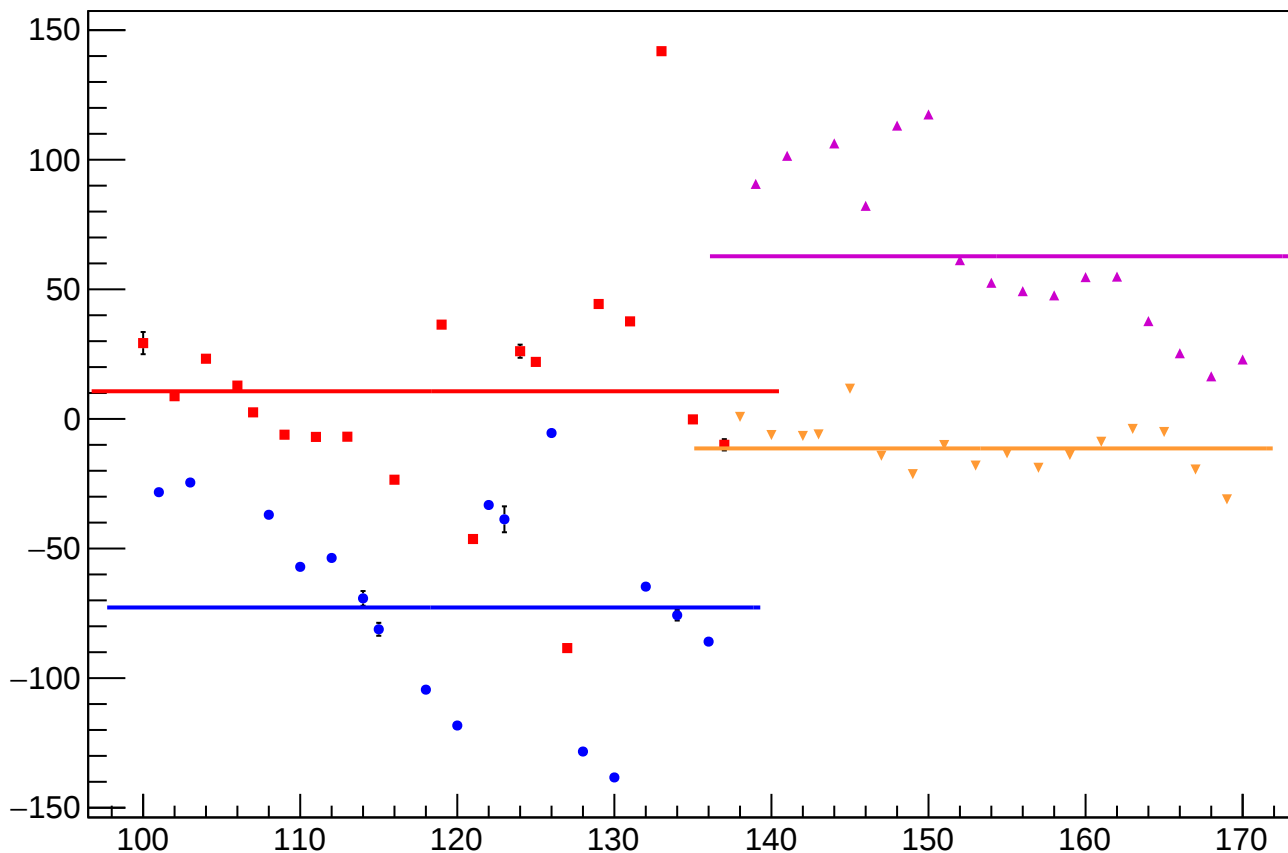
Right: 1331.011 ± 0.254 χ^2/NDF : 150358.7/35

In: 1423.450 ± 0.231 χ^2/NDF : 307642.8/32

Out: 1381.450 ± 0.221 χ^2/NDF : 408438.4/35

All: 1401.503 ± 0.160 χ^2/NDF : 733345.4/68

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 $\pm$ 0.362 χ^2/NDF : 11690.4/16

Left Out: -11.381 $\pm$ 0.260 χ^2/NDF : 1419.3/16

Right Out: 10.671 $\pm$ 0.352 χ^2/NDF : 18171.0/18

Left In: 62.758 $\pm$ 0.264 χ^2/NDF : 14844.0/15

Left: 25.177 $\pm$ 0.185 χ^2/NDF : 56375.8/32

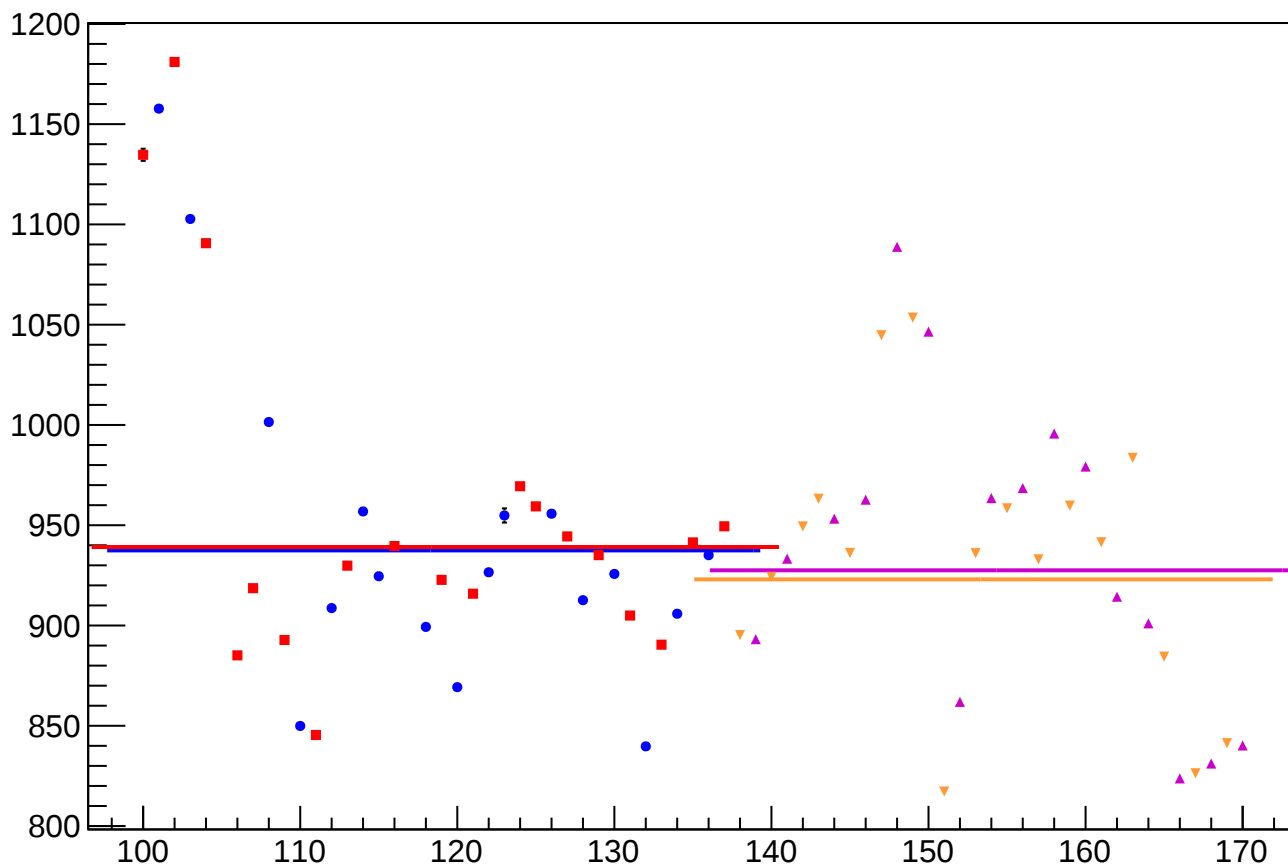
Right: -29.865 $\pm$ 0.253 χ^2/NDF : 57099.2/35

In: 15.878 $\pm$ 0.213 χ^2/NDF : 117986.5/32

Out: -3.609 $\pm$ 0.209 χ^2/NDF : 22127.0/35

All: 5.952 $\pm$ 0.149 χ^2/NDF : 144371.4/68

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: 927.520 ± 0.186 χ^2/NDF : 148599.6/15

Left: 925.240 ± 0.131 χ^2/NDF : 276235.5/32

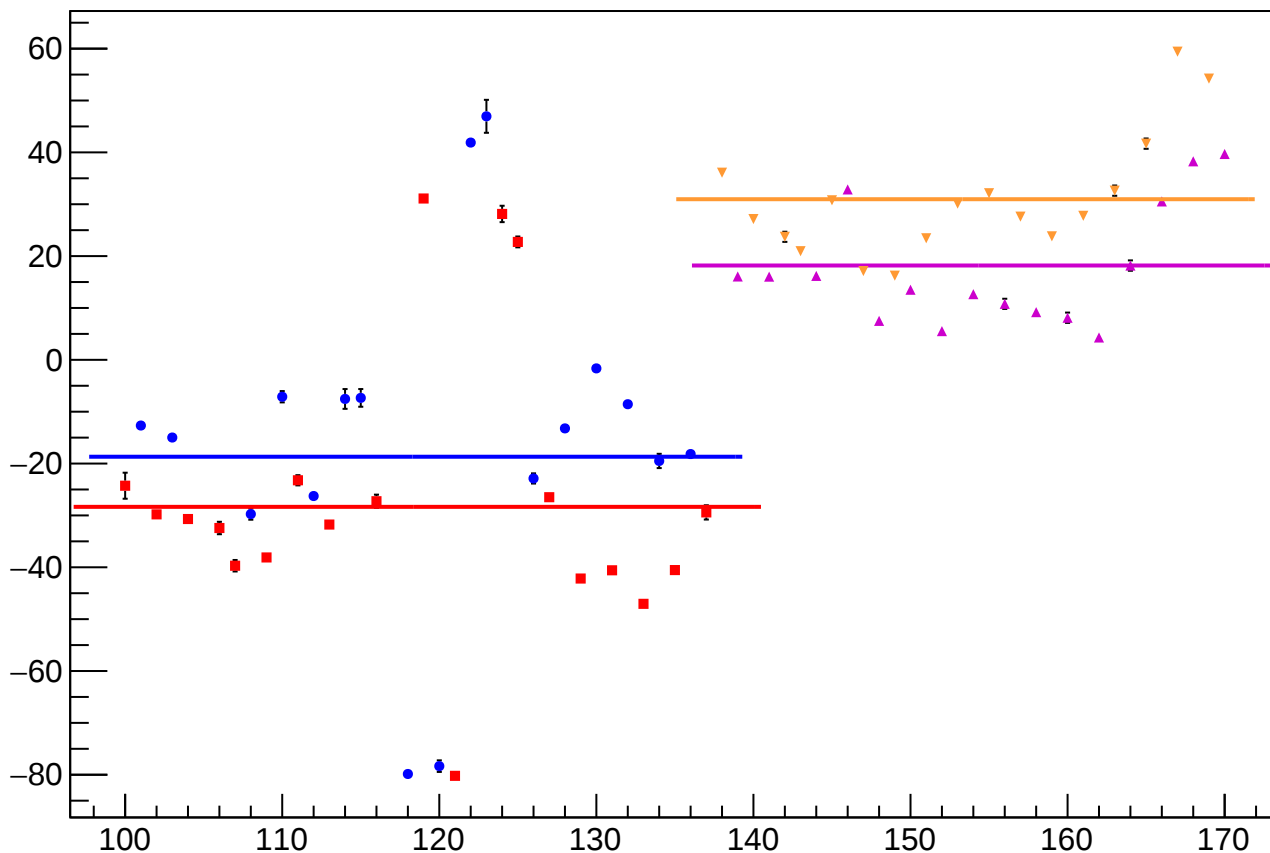
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 930.957 ± 0.151 χ^2/NDF : 247890.3/32

Out: 928.704 ± 0.148 χ^2/NDF : 220303.8/35

All: 929.809 ± 0.106 χ^2/NDF : 468308.0/68

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 30.968 ± 0.202 $\chi^2/\text{NDF}: 3516.6/16$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 18.188 ± 0.206 $\chi^2/\text{NDF}: 3037.1/15$

Left: 24.710 ± 0.144 $\chi^2/\text{NDF}: 8511.3/32$

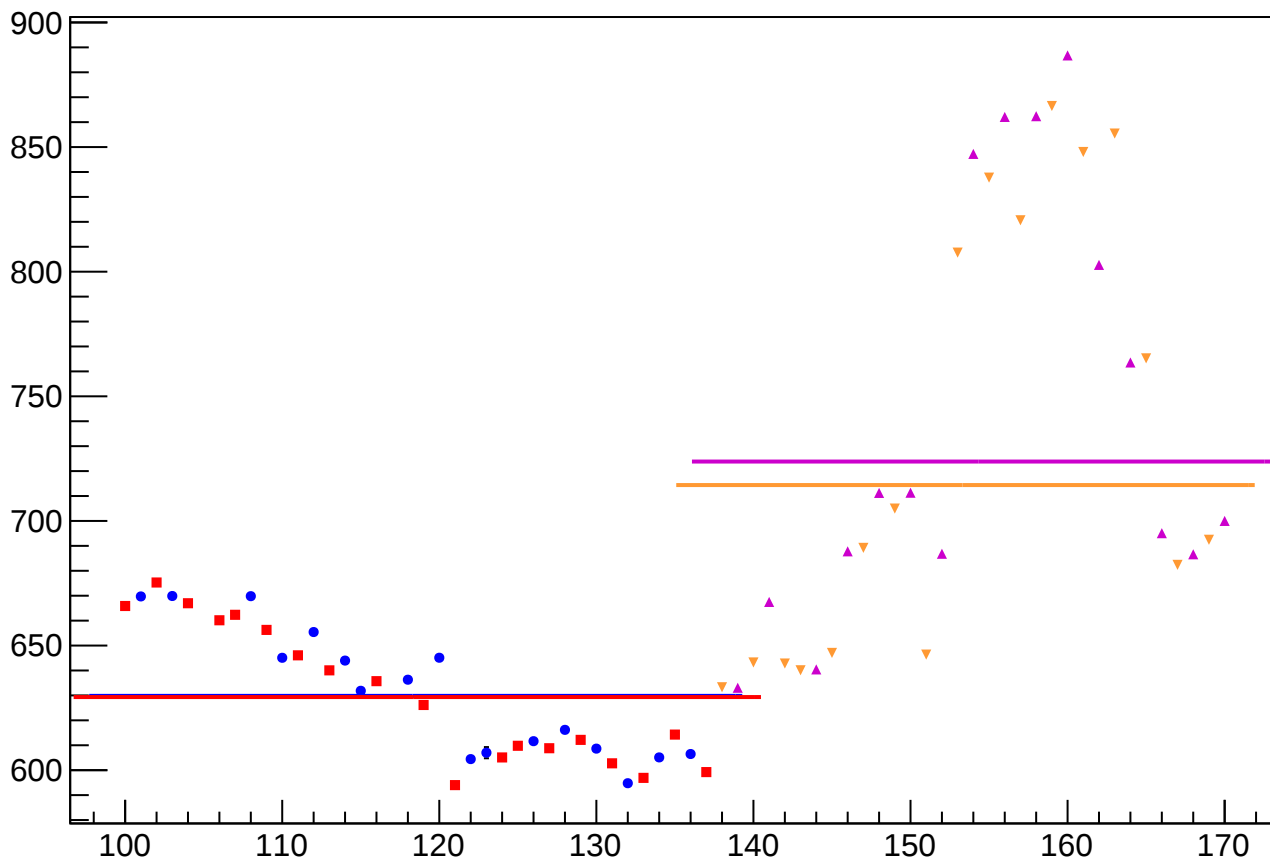
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 2.714 ± 0.157 $\chi^2/\text{NDF}: 29441.7/32$

Out: 5.802 ± 0.153 $\chi^2/\text{NDF}: 52560.4/35$

All: 4.296 ± 0.110 $\chi^2/\text{NDF}: 82199.8/68$

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: 723.830+/-0.146 χ^2/NDF : 277549.4/15

Left: 719.015+/-0.102 χ^2/NDF : 610810.6/32

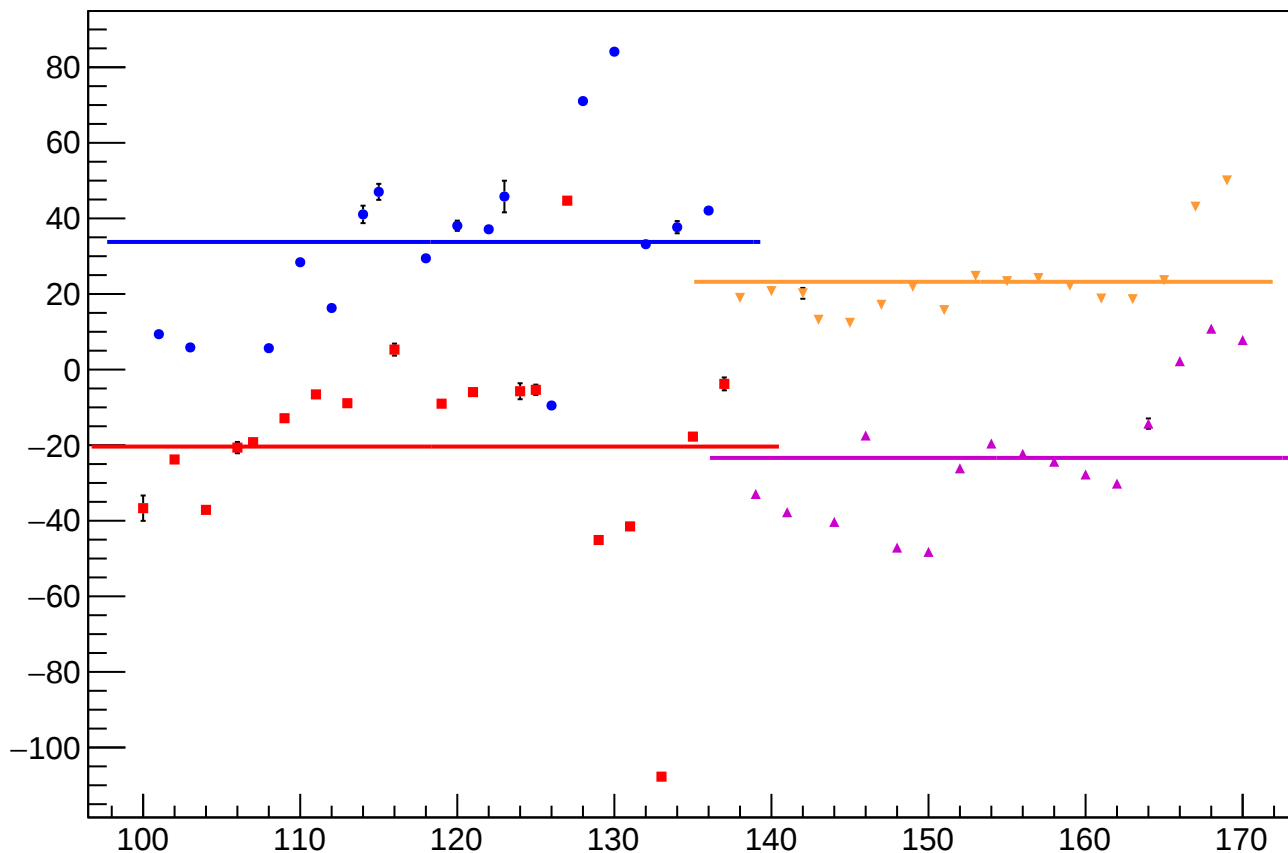
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 684.375+/-0.111 χ^2/NDF : 475070.9/32

Out: 678.308+/-0.108 χ^2/NDF : 506919.3/35

All: 681.267+/-0.078 χ^2/NDF : 983516.0/68

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: -23.372+/-0.291 χ^2/NDF :3712.8/15

Left: 0.189+/-0.205 χ^2/NDF : 17879.2/32

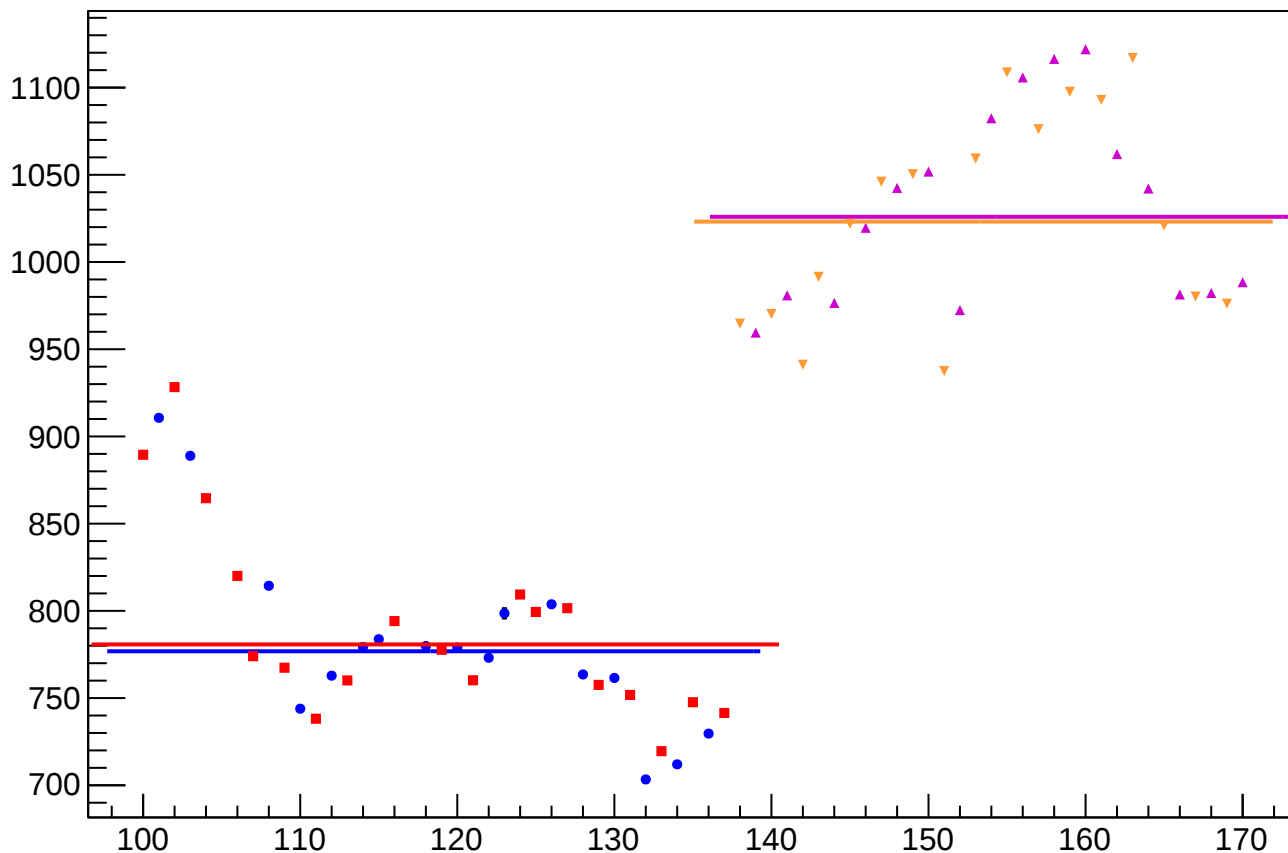
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 4.342+/-0.209 χ^2/NDF :28900.8/32

Out: 1.784+/-0.205 χ^2/NDF :23780.6/35

All: 3.040+/-0.146 χ^2/NDF : 52757.8/68

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: 1025.919 $\pm$ 0.206 χ^2 /NDF: 66090.0/15

Left: 1024.523 $\pm$ 0.145 χ^2 /NDF: 145839.5/32

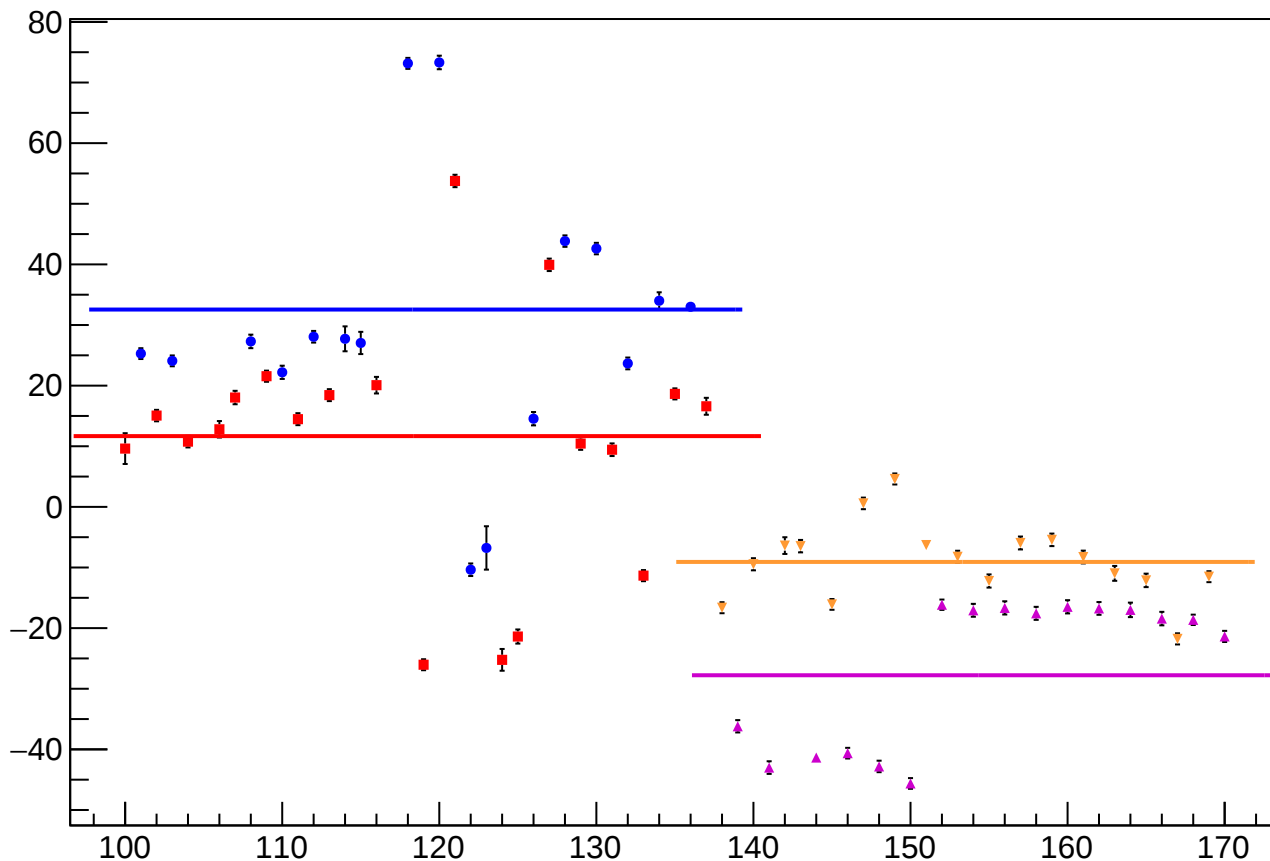
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 905.119 $\pm$ 0.148 χ^2 /NDF: 844127.7/32

Out: 903.931 $\pm$ 0.145 χ^2 /NDF: 834964.0/35

All: 904.515 $\pm$ 0.103 χ^2 /NDF: 1679124.7/68

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: -27.775 ± 0.244 χ^2/NDF : 2436.7/15

Left: -18.323 ± 0.172 χ^2/NDF : 6122.8/32

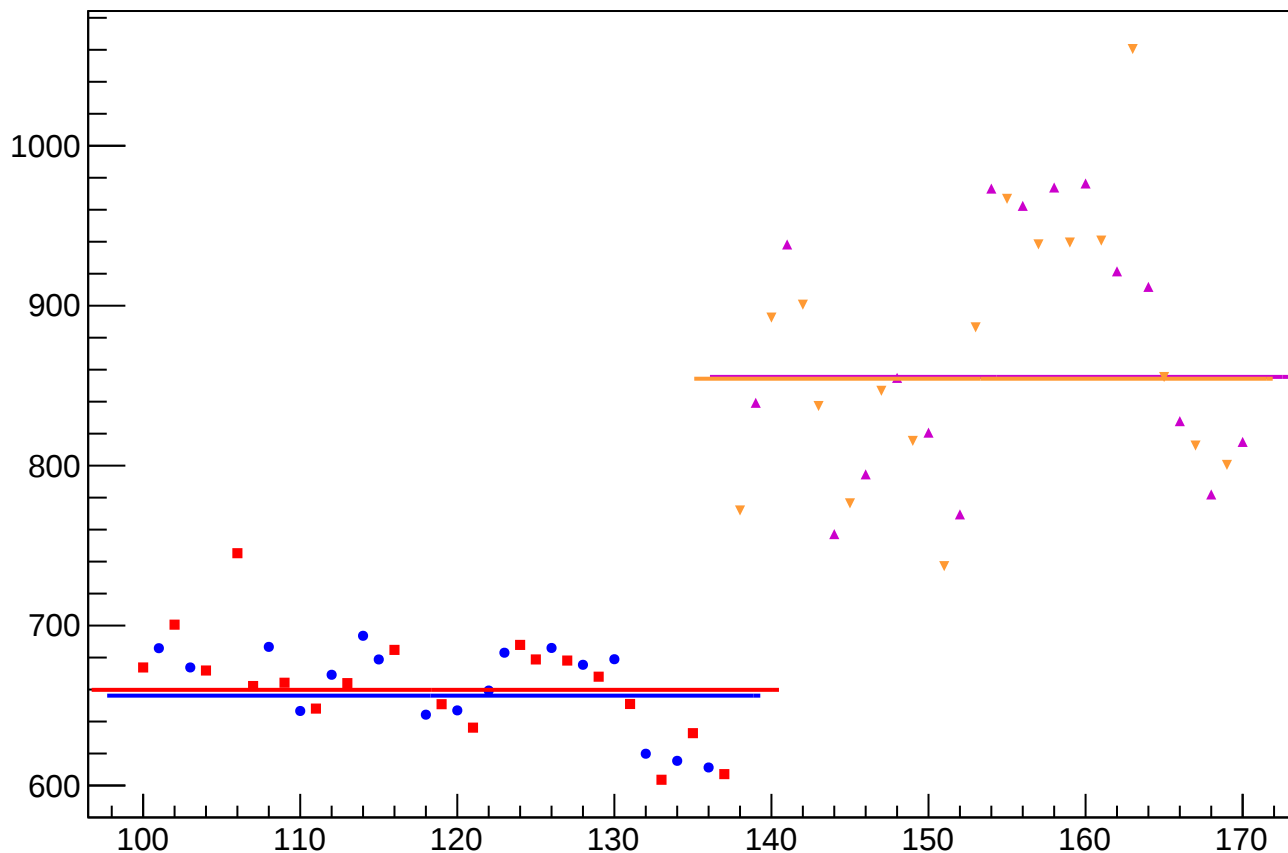
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 1.319 ± 0.176 χ^2/NDF : 37977.6/32

Out: 1.057 ± 0.173 χ^2/NDF : 10688.8/35

All: 1.186 ± 0.123 χ^2/NDF : 48667.6/68

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2 /NDF: 23569.6/16

Left Out: 854.345 $\pm$ 0.171 χ^2 /NDF: 212403.0/16

Right Out: 659.813 $\pm$ 0.175 χ^2 /NDF: 28325.7/18

Left In: 855.488 $\pm$ 0.173 χ^2 /NDF: 199080.5/15

Left: 854.910 $\pm$ 0.121 χ^2 /NDF: 411505.7/32

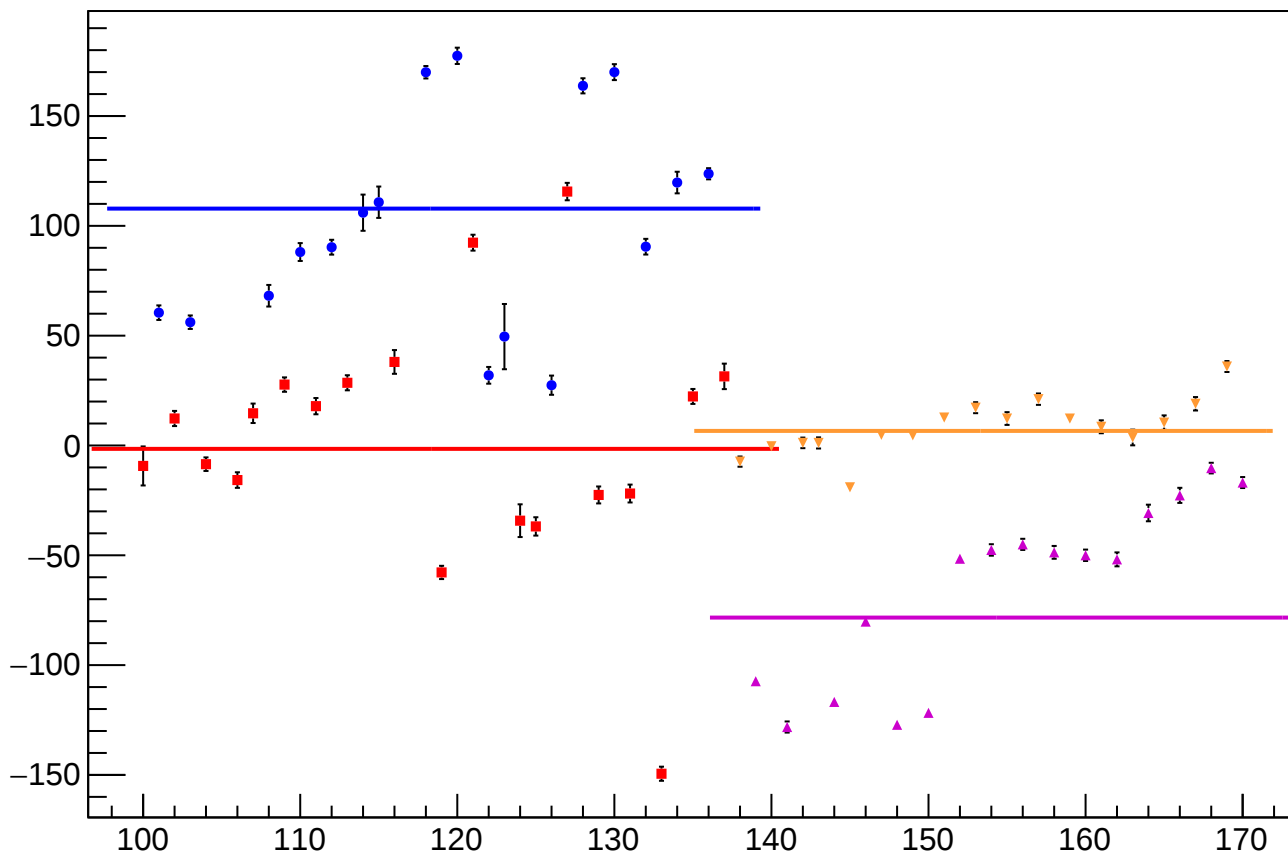
Right: 658.039 $\pm$ 0.125 χ^2 /NDF: 52106.5/35

In: 759.367 $\pm$ 0.124 χ^2 /NDF: 865939.5/32

Out: 759.331 $\pm$ 0.122 χ^2 /NDF: 875416.9/35

All: 759.349 $\pm$ 0.087 χ^2 /NDF: 1741356.4/68

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: -78.365 ± 0.580 $\chi^2/\text{NDF}: 4880.7/15$

Left: -35.610 ± 0.409 $\chi^2/\text{NDF}: 16108.4/32$

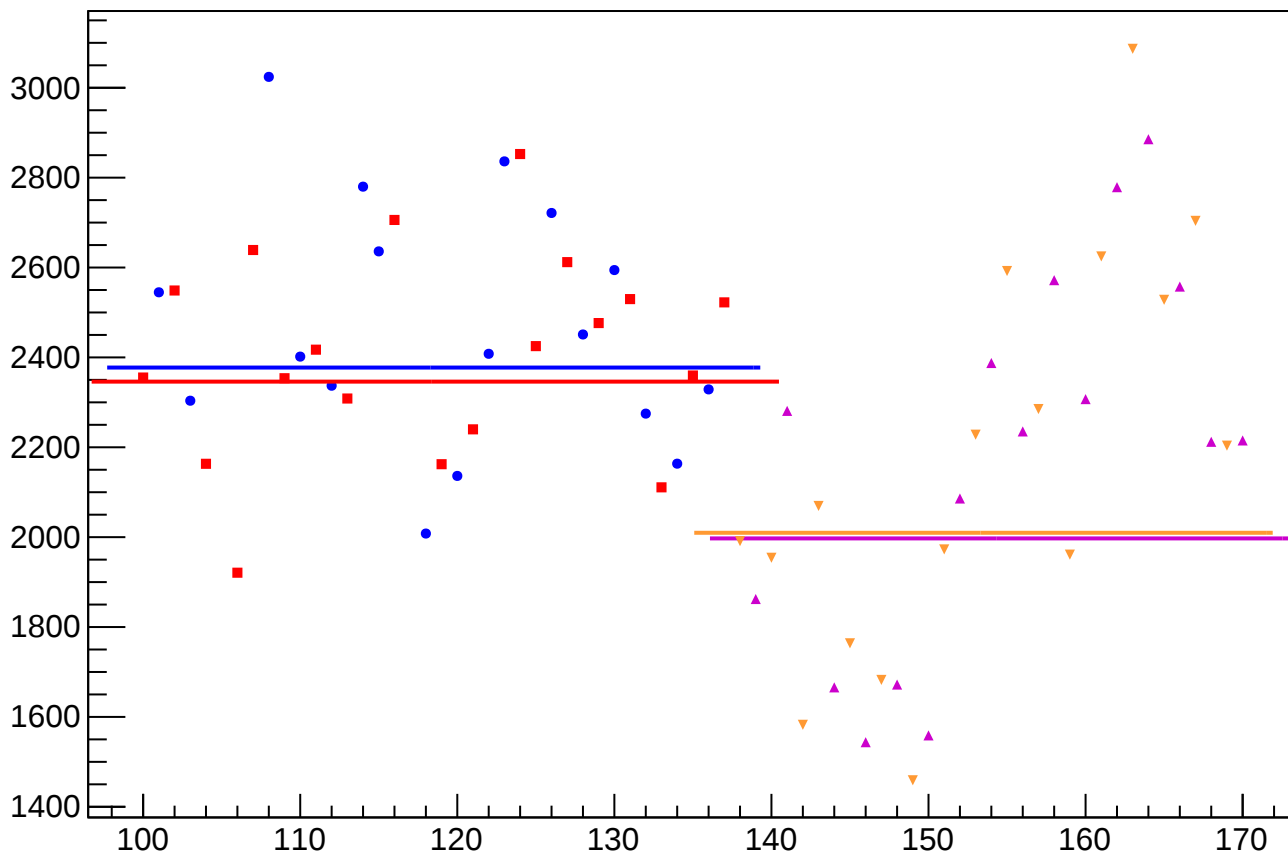
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -25.468 ± 0.491 $\chi^2/\text{NDF}: 36923.7/32$

Out: 4.187 ± 0.483 $\chi^2/\text{NDF}: 5026.6/35$

All: -10.394 ± 0.344 $\chi^2/\text{NDF}: 43803.3/68$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2009.751+/-0.408 χ^2/NDF : 933401.2/16

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 1997.199+/-0.410 χ^2/NDF : 921597.7/15

Left: 2003.513+/-0.289 χ^2/NDF : 1855469.3/32

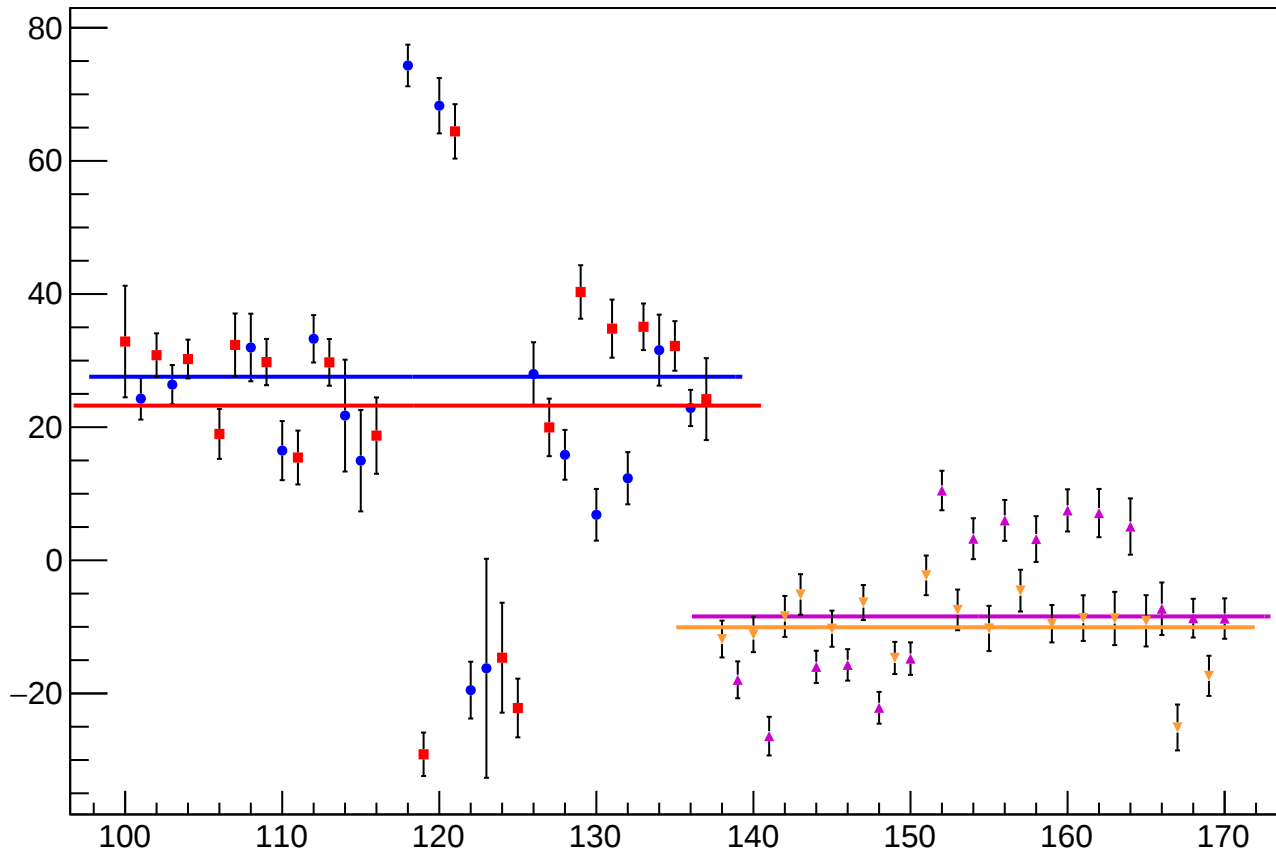
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2105.205+/-0.347 χ^2/NDF : 1285005.7/32

Out: 2110.348+/-0.342 χ^2/NDF : 1244948.1/35

All: 2107.819+/-0.244 χ^2/NDF : 2530065.2/68

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -10.058 ± 0.729 $\chi^2/\text{NDF}: 45.1/16$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.432 ± 0.730 $\chi^2/\text{NDF}: 251.6/15$

Left: -9.247 ± 0.516 $\chi^2/\text{NDF}: 299.2/32$

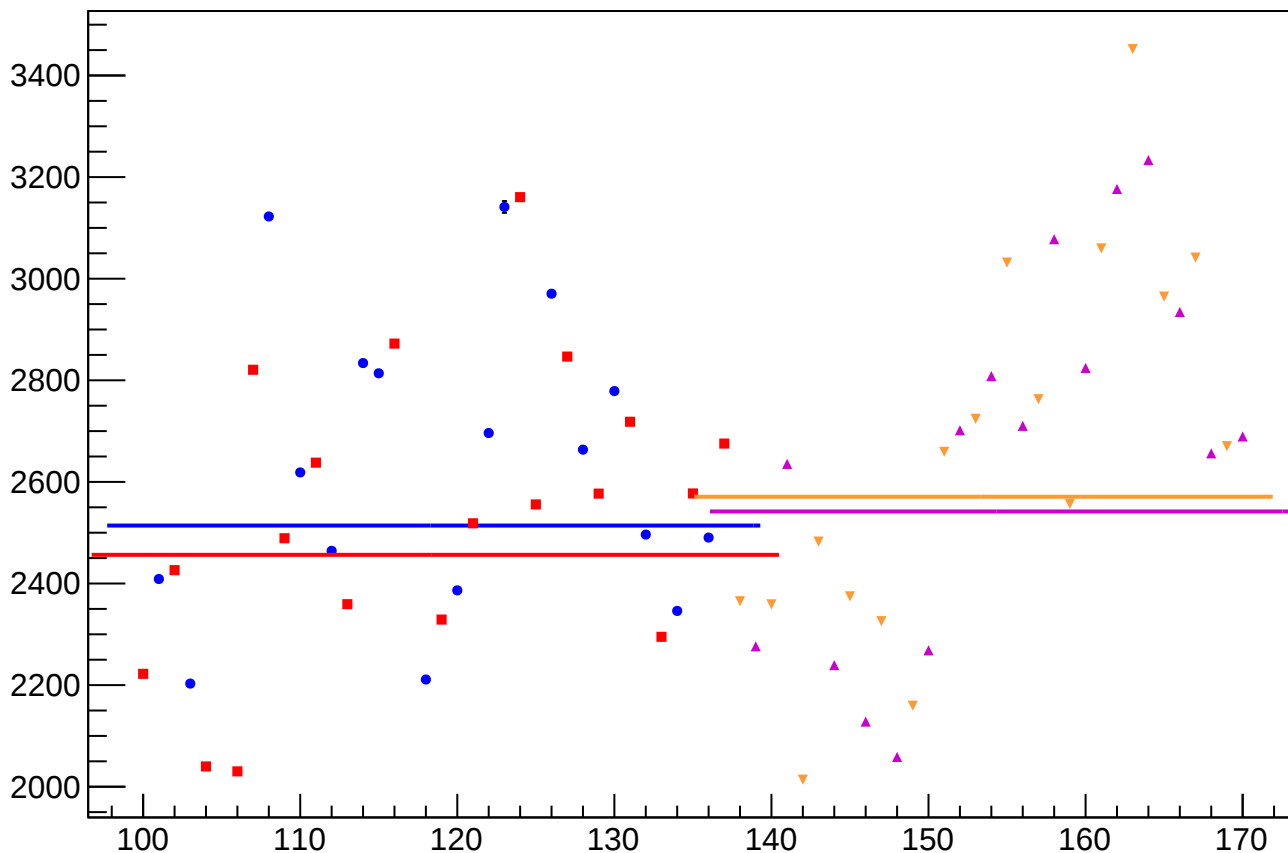
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 4.517 ± 0.585 $\chi^2/\text{NDF}: 1645.1/32$

Out: 2.666 ± 0.573 $\chi^2/\text{NDF}: 1400.4/35$

All: 3.573 ± 0.409 $\chi^2/\text{NDF}: 3050.6/68$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2 /NDF: 120961.3/16

Left Out: 2570.800 $\pm$ 0.515 χ^2 /NDF: 426165.2/16

Right Out: 2456.460 $\pm$ 0.655 χ^2 /NDF: 149732.7/18

Left In: 2541.820 $\pm$ 0.517 χ^2 /NDF: 453431.1/15

Left: 2556.341 $\pm$ 0.365 χ^2 /NDF: 881173.4/32

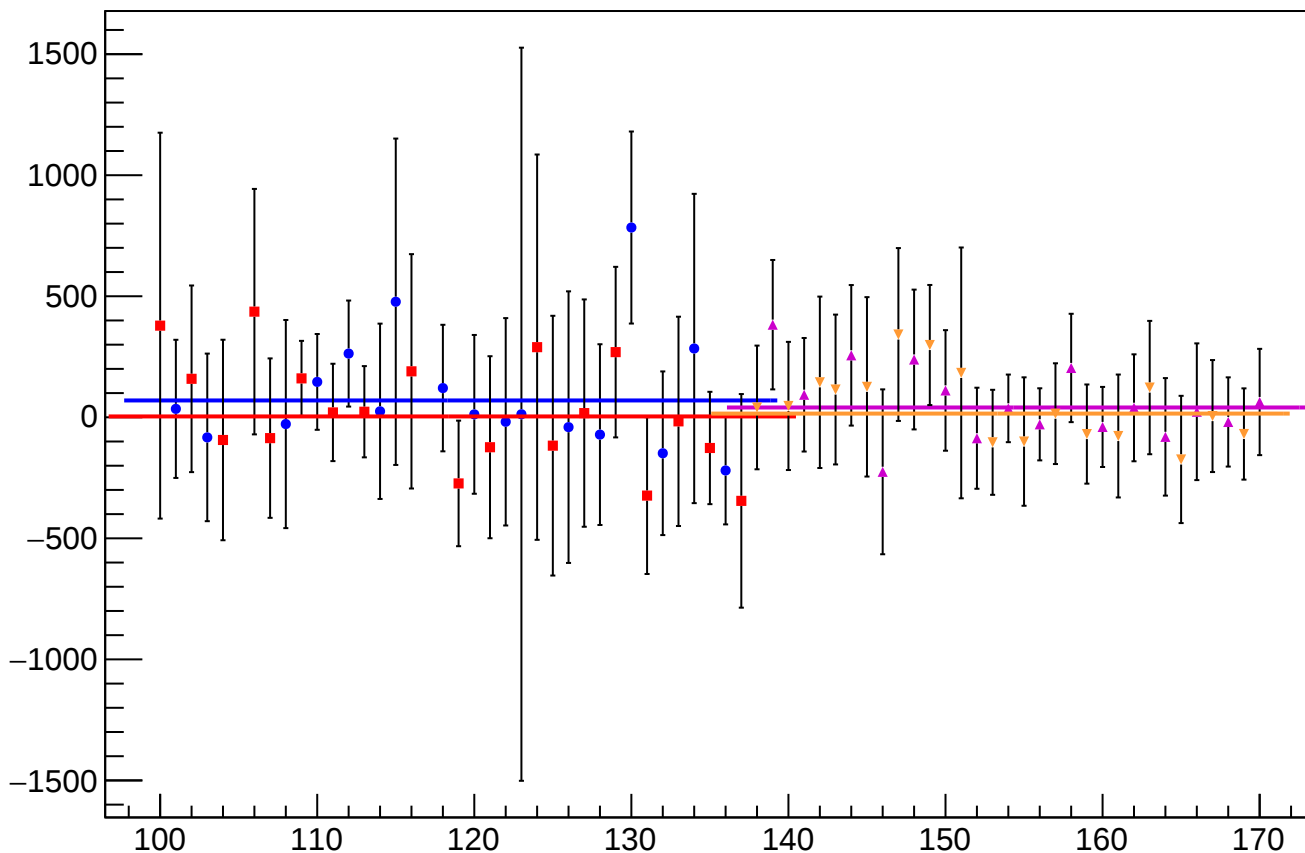
Right: 2483.827 $\pm$ 0.475 χ^2 /NDF: 274364.7/35

In: 2531.847 $\pm$ 0.413 χ^2 /NDF: 575428.9/32

Out: 2527.113 $\pm$ 0.405 χ^2 /NDF: 594699.6/35

All: 2529.432 $\pm$ 0.289 χ^2 /NDF: 1170195.5/68

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: 40.541 $\pm$ 52.937 χ^2 /NDF:5.1/15

Left: 30.008 $\pm$ 40.410 χ^2 /NDF: 9.5/32

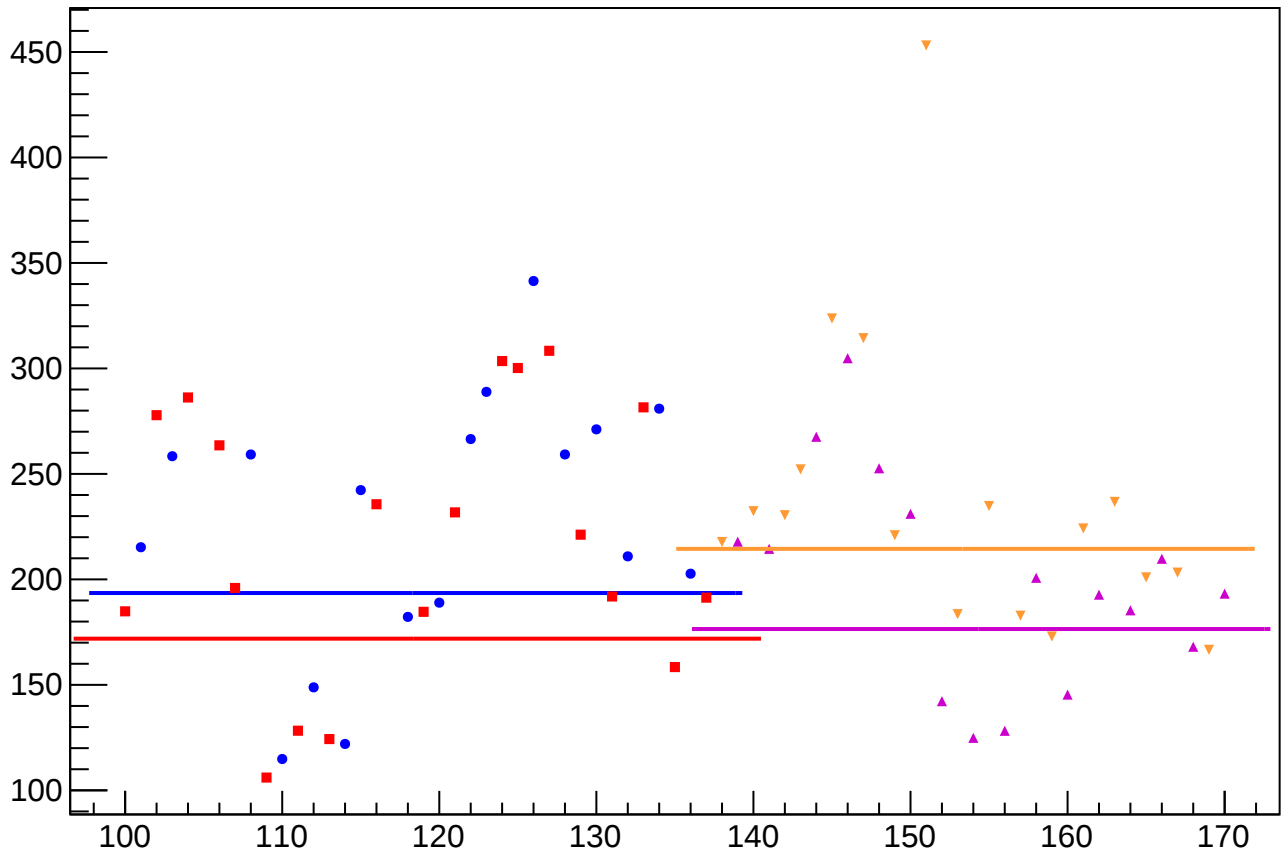
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 49.538 $\pm$ 43.980 χ^2 /NDF:12.5/32

Out: 10.085 $\pm$ 46.639 χ^2 /NDF:10.7/35

All: 30.968 $\pm$ 31.998 χ^2 /NDF: 23.6/68

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: 176.469+/-0.037 χ^2/NDF :1505446.4/15

Left: 192.325+/-0.029 χ^2/NDF : 3070585.1/32

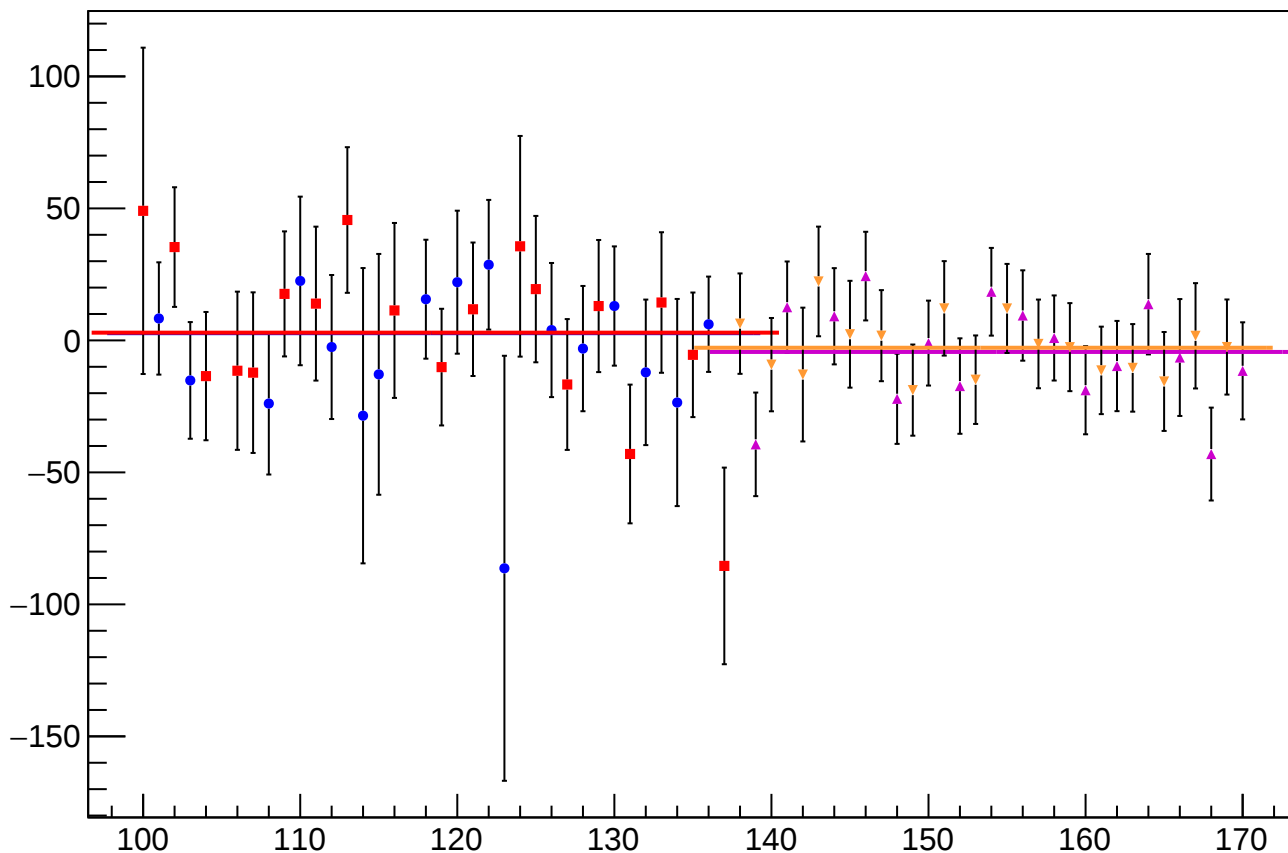
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 181.754+/-0.031 χ^2/NDF :2580248.3/32

Out: 195.561+/-0.033 χ^2/NDF :3123318.2/35

All: 188.253+/-0.023 χ^2/NDF : 5796340.2/68

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16

Left Out: -2.787 $\pm$ 4.383 χ^2 /NDF:6.0/16

Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18

Left In: -4.377 $\pm$ 4.397 χ^2 /NDF:18.6/15

Left: -3.579 $\pm$ 3.104 χ^2 /NDF: 24.7/32

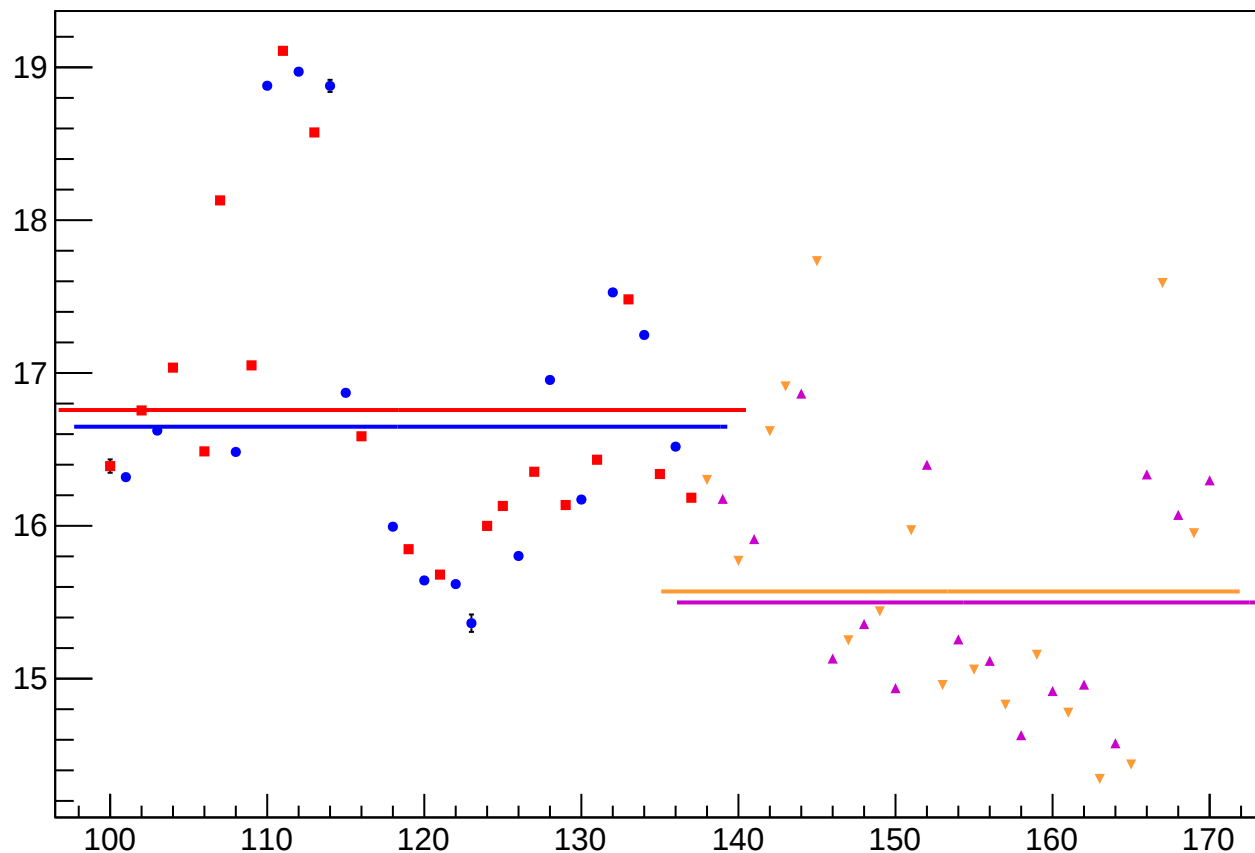
Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35

In: -2.109 $\pm$ 3.629 χ^2 /NDF:26.3/32

Out: -0.914 $\pm$ 3.594 χ^2 /NDF:24.3/35

All: -1.506 $\pm$ 2.553 χ^2 /NDF: 50.6/68

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: 15.499 $\pm$ 0.003 χ^2/NDF : 48326.0/15

Left: 15.535 $\pm$ 0.002 χ^2/NDF : 142006.5/32

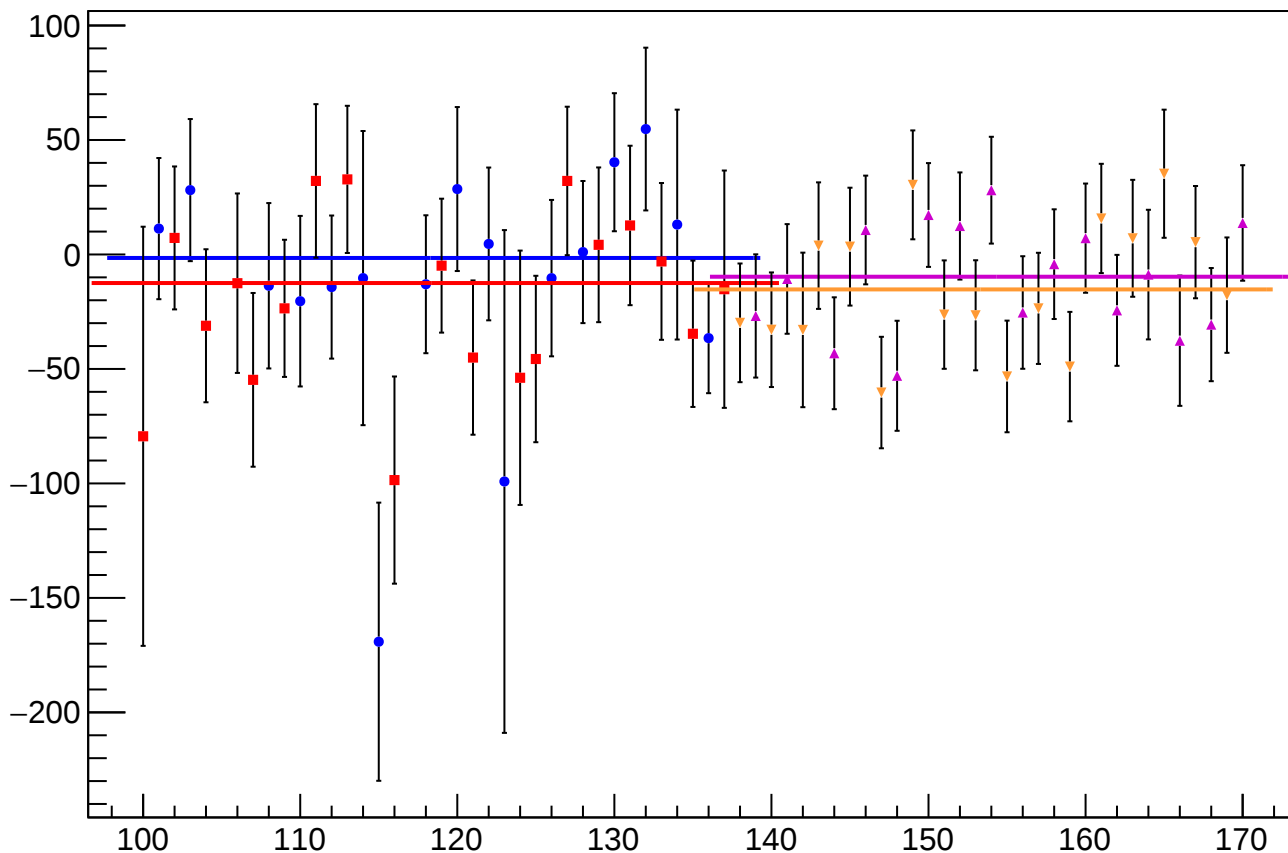
Right: 16.704 $\pm$ 0.003 χ^2/NDF : 82813.0/35

In: 15.865 $\pm$ 0.003 χ^2/NDF : 134532.1/32

Out: 15.959 $\pm$ 0.003 χ^2/NDF : 181442.2/35

All: 15.913 $\pm$ 0.002 χ^2/NDF : 316652.5/68

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: -9.722 ± 6.147 χ^2/NDF : 15.1/15

Left: -12.505 ± 4.337 χ^2/NDF : 36.1/32

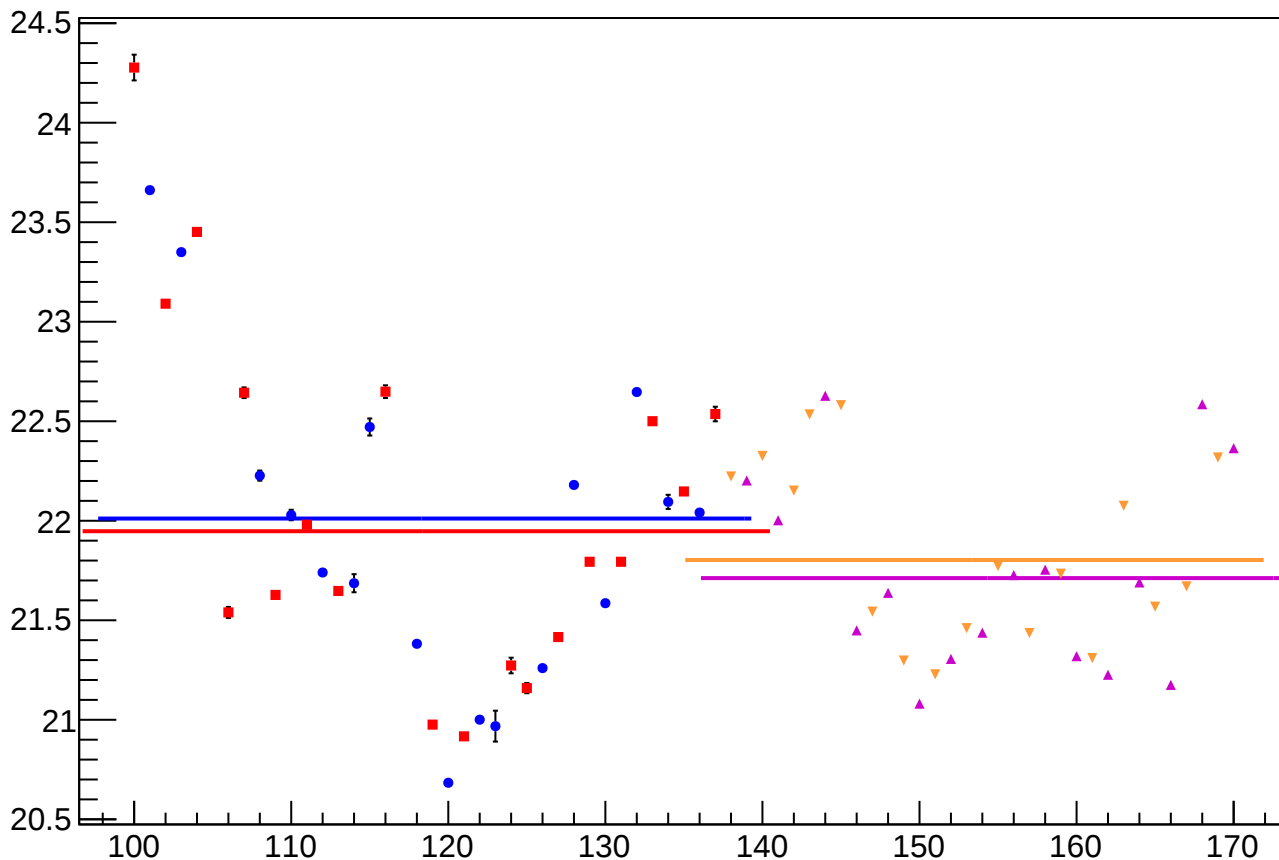
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.900 ± 4.978 χ^2/NDF : 33.3/32

Out: -14.268 ± 4.907 χ^2/NDF : 36.3/35

All: -10.637 ± 3.495 χ^2/NDF : 70.7/68

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: 21.712 $\pm$ 0.004 χ^2 /NDF:12362.9/15

Left: 21.758 $\pm$ 0.003 χ^2 /NDF: 22726.6/32

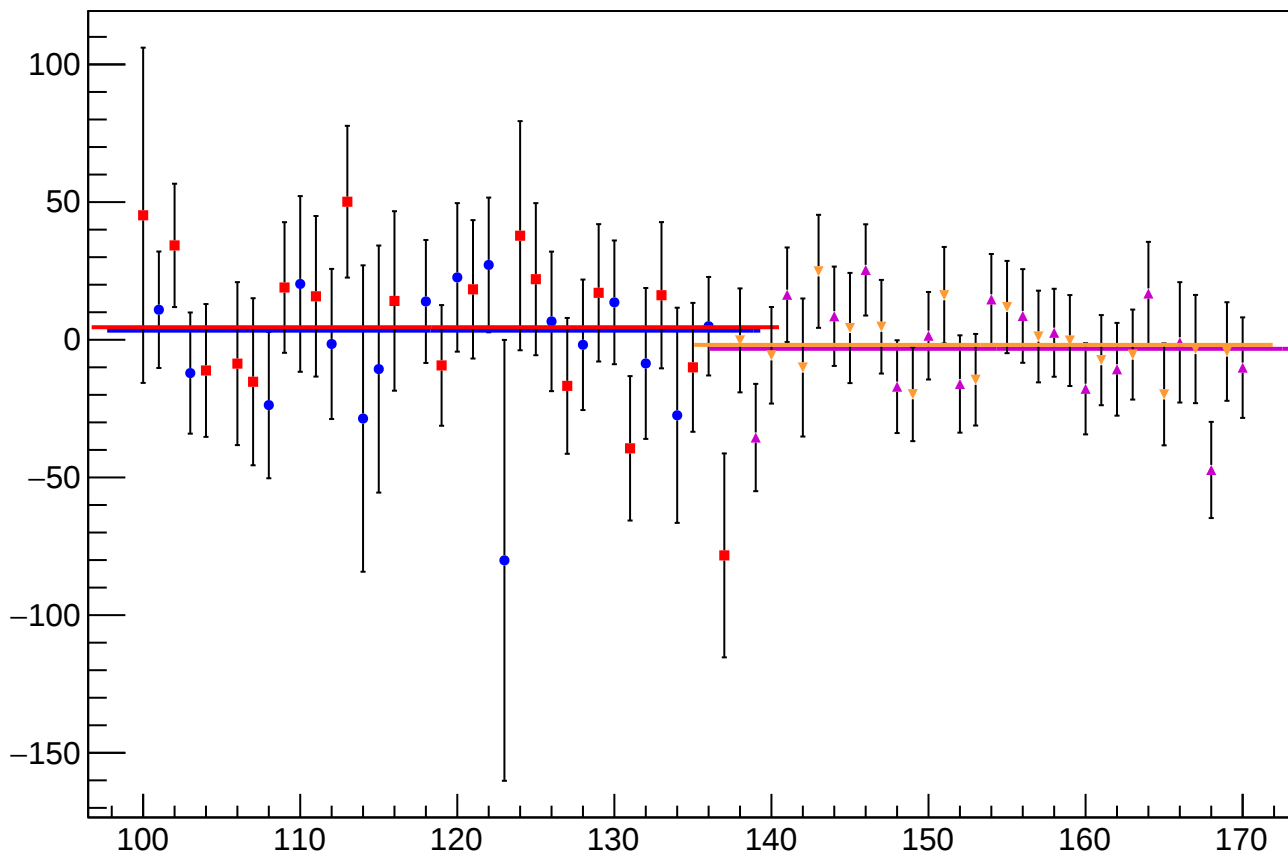
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.815 $\pm$ 0.004 χ^2 /NDF:31541.7/32

Out: 21.855 $\pm$ 0.003 χ^2 /NDF:27135.3/35

All: 21.835 $\pm$ 0.002 χ^2 /NDF: 58741.2/68

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317+/-6.388 χ^2/NDF : 6.3/16

Left Out: -1.850+/-4.334 χ^2/NDF : 6.7/16

Right Out: 4.561+/-6.244 χ^2/NDF : 17.7/18

Left In: -3.280+/-4.350 χ^2/NDF : 19.1/15

Left: -2.562+/-3.070 χ^2/NDF : 25.9/32

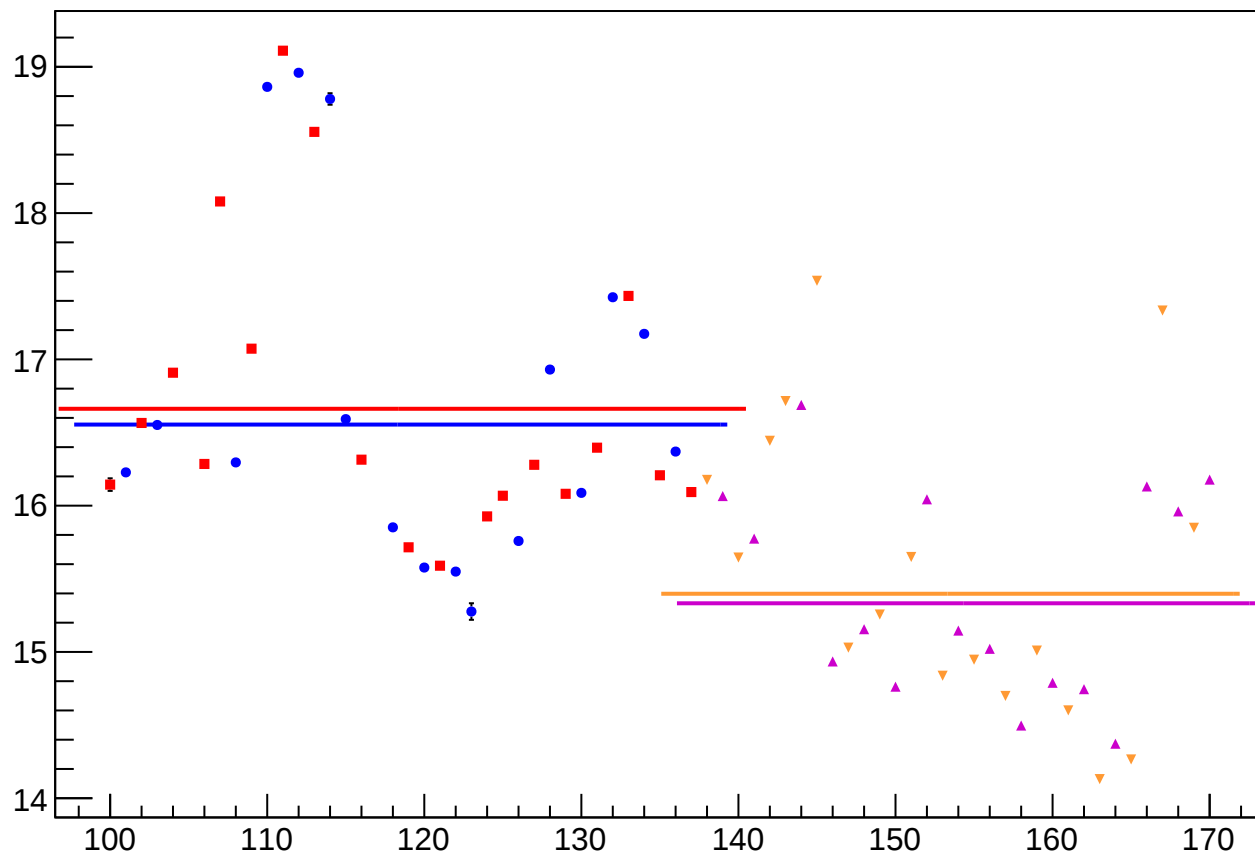
Right: 3.953+/-4.465 χ^2/NDF : 24.0/35

In: -1.190+/-3.595 χ^2/NDF : 26.1/32

Out: 0.235+/-3.560 χ^2/NDF : 25.1/35

All: -0.471+/-2.530 χ^2/NDF : 51.3/68

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: 15.333 $\pm$ 0.003 χ^2 /NDF: 48405.3/15

Left: 15.365 $\pm$ 0.002 χ^2 /NDF: 141781.4/32

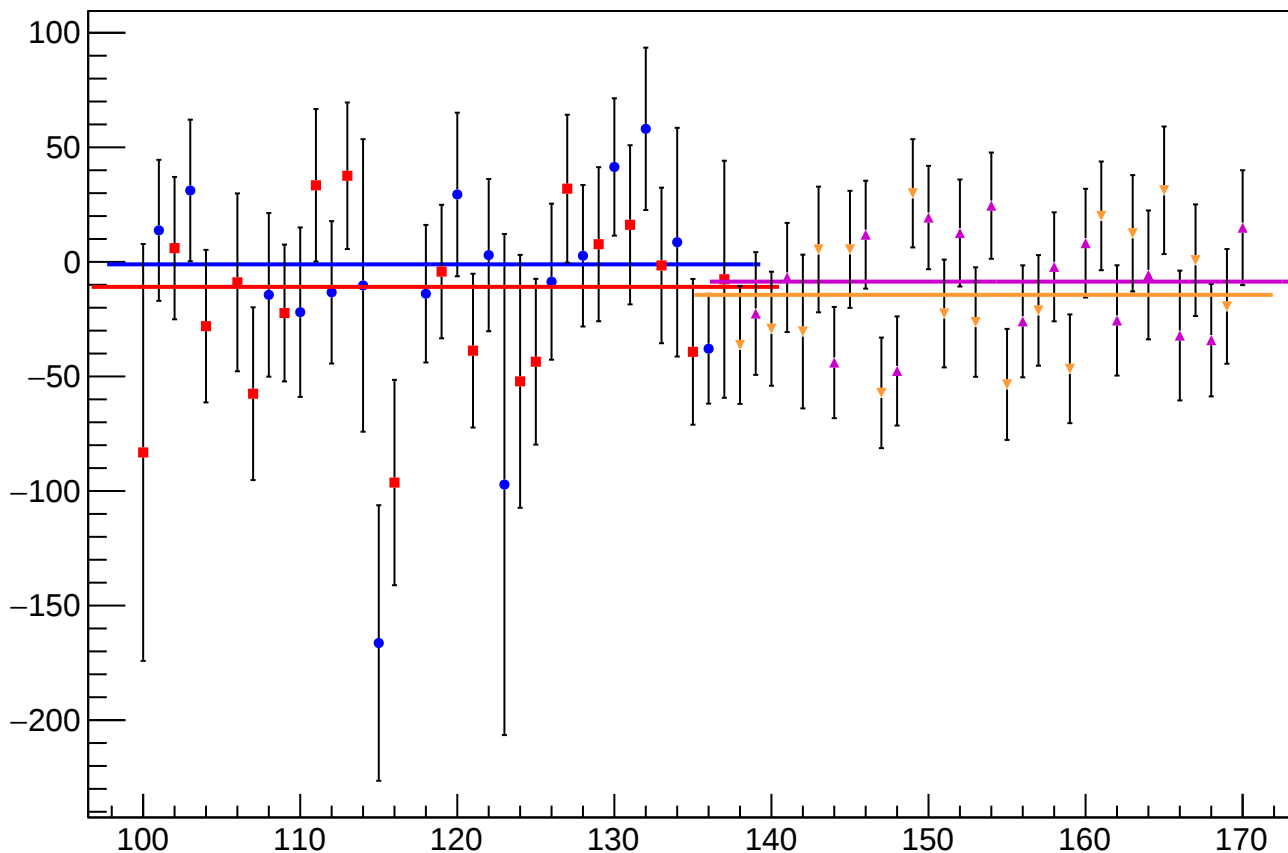
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.720 $\pm$ 0.003 χ^2 /NDF: 142862.0/32

Out: 15.809 $\pm$ 0.003 χ^2 /NDF: 191576.4/35

All: 15.765 $\pm$ 0.002 χ^2 /NDF: 335062.3/68

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: -8.606 ± 6.110 χ^2/NDF : 14.5/15

Left: -11.509 ± 4.311 χ^2/NDF : 35.3/32

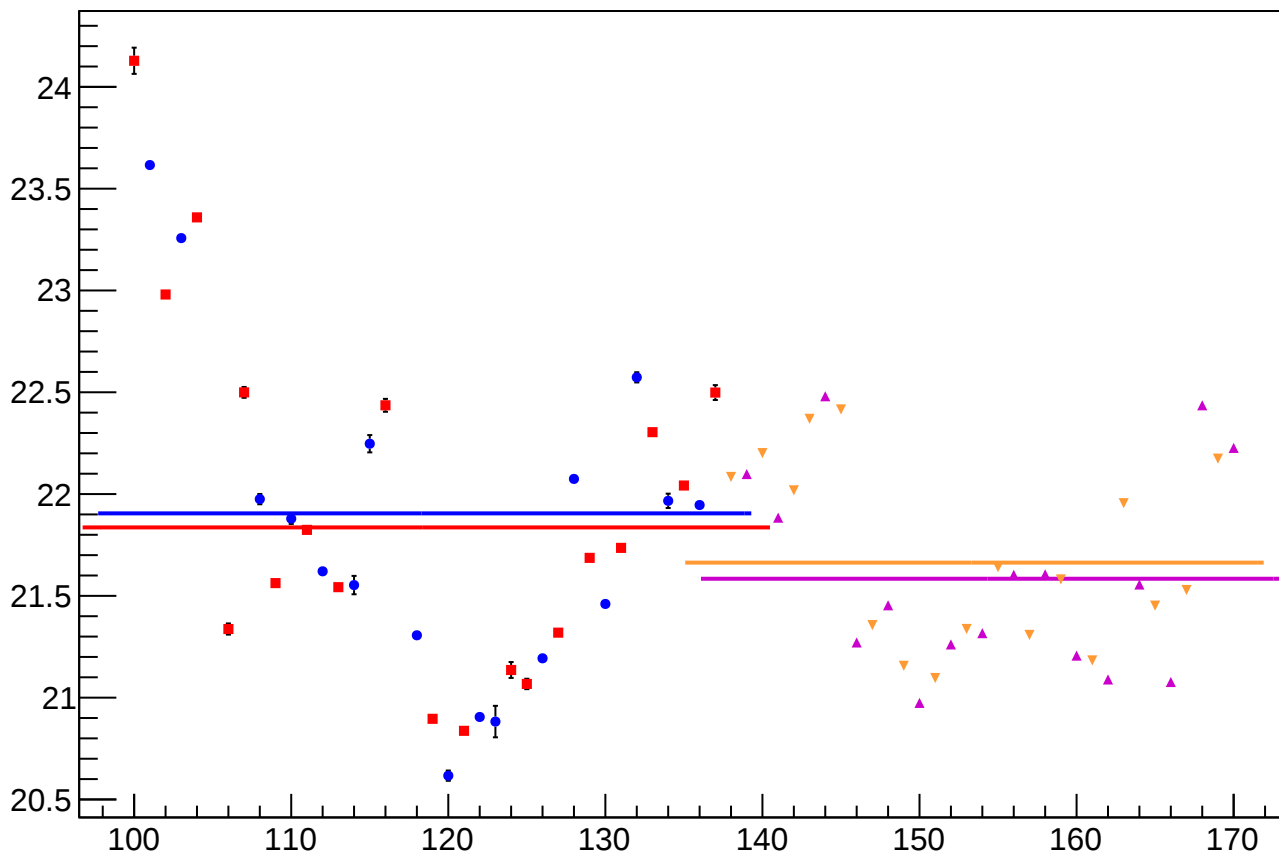
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -6.016 ± 4.950 χ^2/NDF : 33.5/32

Out: -13.141 ± 4.878 χ^2/NDF : 36.7/35

All: -9.631 ± 3.475 χ^2/NDF : 71.2/68

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905+/-0.006 χ^2/NDF : 17794.2/16

Left Out: 21.663+/-0.004 χ^2/NDF : 10080.0/16

Right Out: 21.836+/-0.006 χ^2/NDF : 16251.2/18

Left In: 21.584+/-0.004 χ^2/NDF : 12024.3/15

Left: 21.624+/-0.003 χ^2/NDF : 22273.2/32

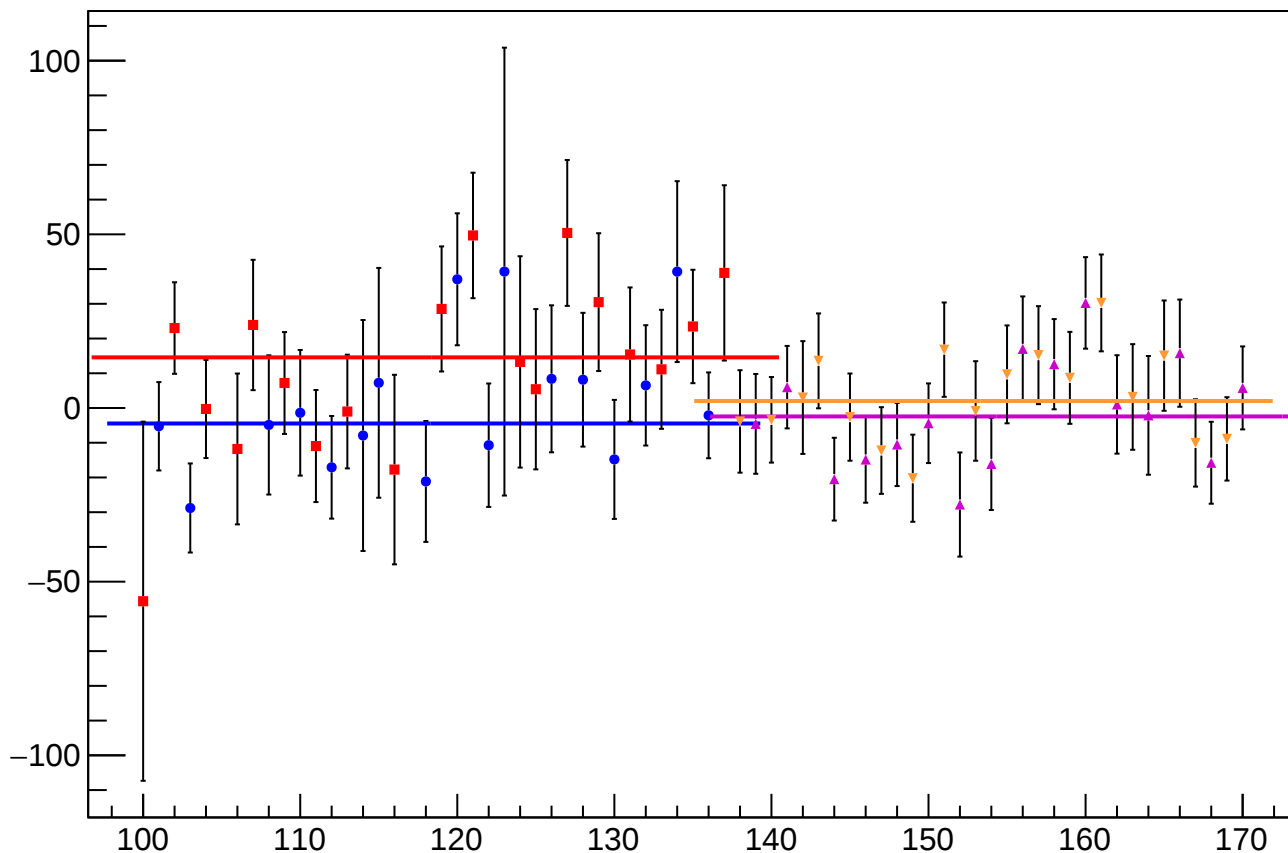
Right: 21.870+/-0.004 χ^2/NDF : 34114.4/35

In: 21.694+/-0.004 χ^2/NDF : 31716.8/32

Out: 21.725+/-0.003 χ^2/NDF : 26907.8/35

All: 21.710+/-0.002 χ^2/NDF : 58663.2/68

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 2.015 ± 3.293 $\chi^2/\text{NDF}: 14.8/16$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -2.433 ± 3.279 $\chi^2/\text{NDF}: 20.6/15$

Left: -0.218 ± 2.323 $\chi^2/\text{NDF}: 36.3/32$

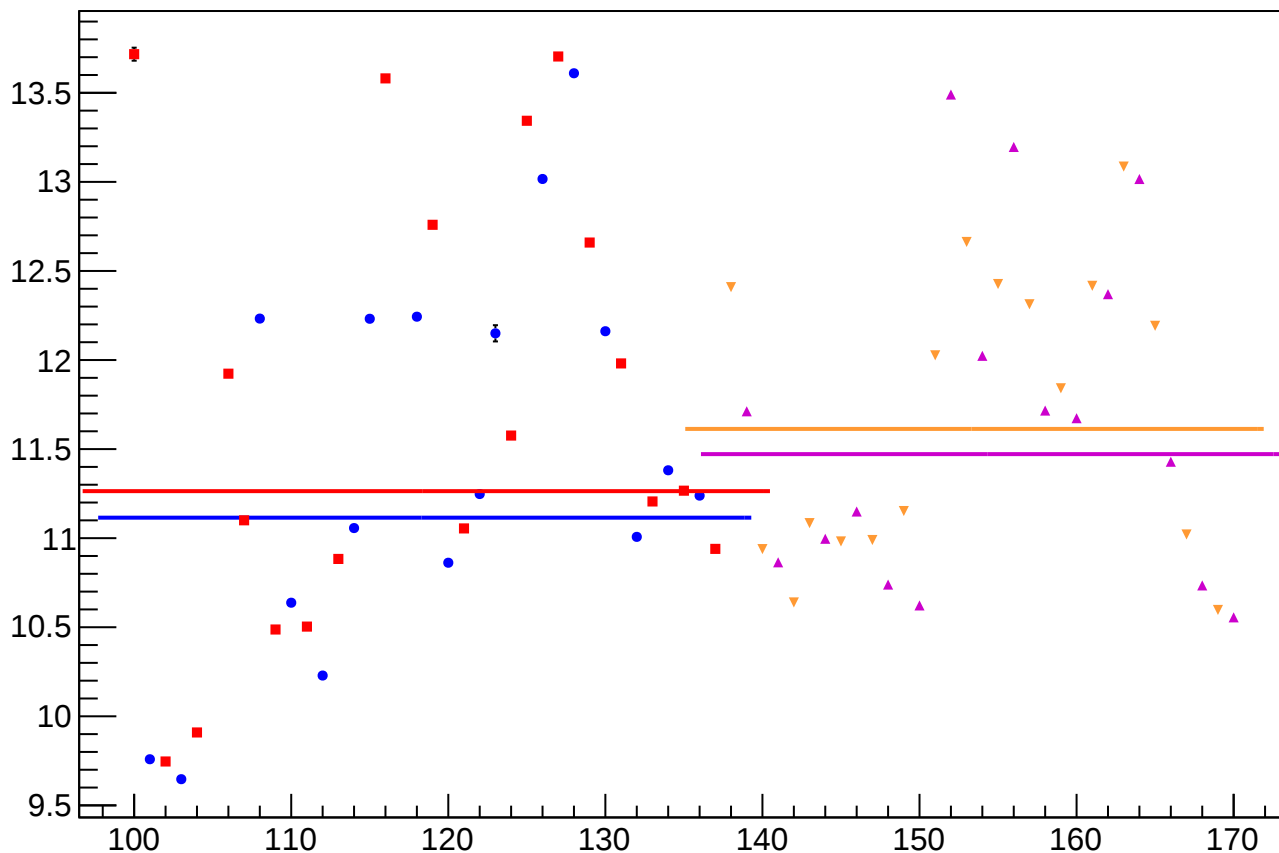
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -3.172 ± 2.614 $\chi^2/\text{NDF}: 35.9/32$

Out: 6.709 ± 2.606 $\chi^2/\text{NDF}: 39.8/35$

All: 1.782 ± 1.845 $\chi^2/\text{NDF}: 82.9/68$

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: 11.472 $\pm$ 0.002 χ^2 /NDF:139697.8/15

Left: 11.542 $\pm$ 0.002 χ^2 /NDF: 247927.3/32

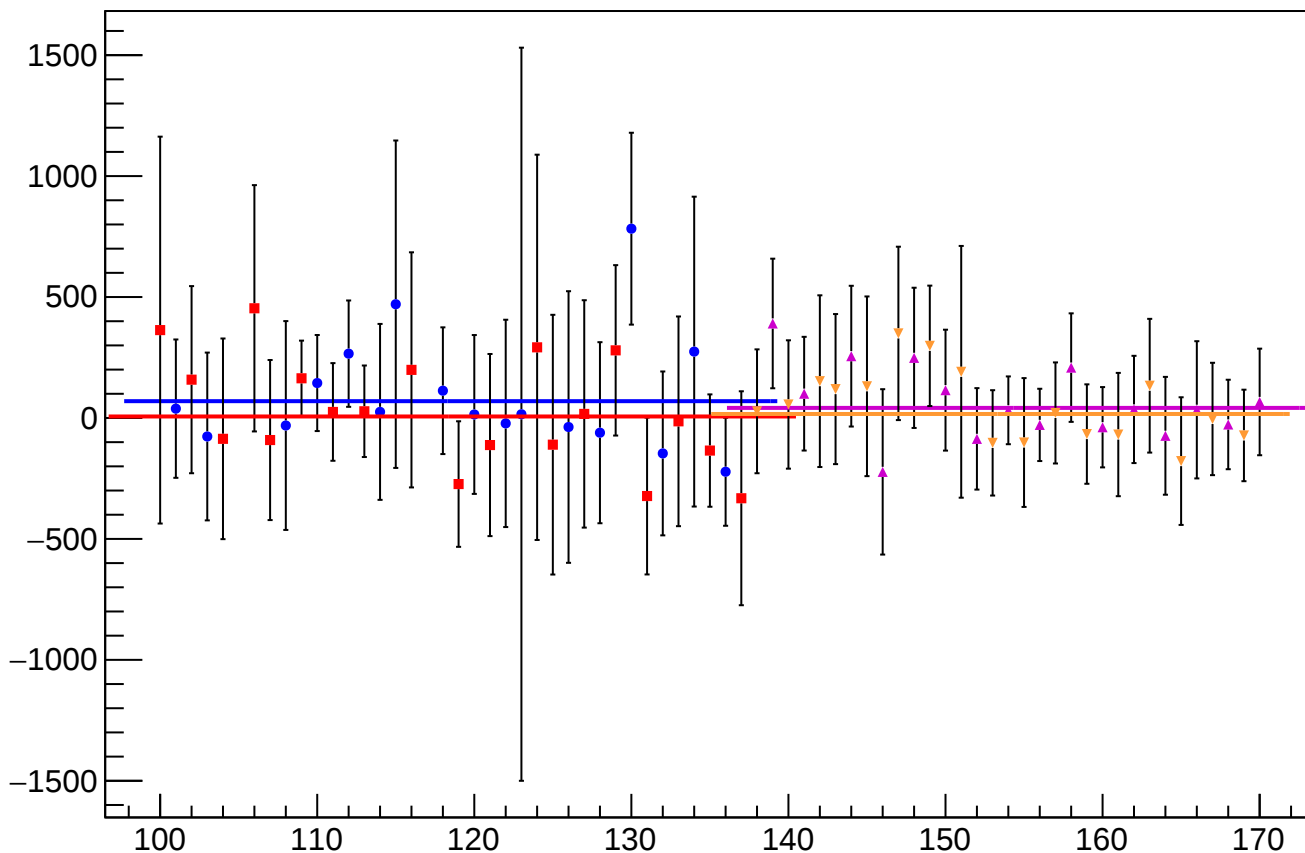
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.342 $\pm$ 0.002 χ^2 /NDF:281389.1/32

Out: 11.483 $\pm$ 0.002 χ^2 /NDF:262267.4/35

All: 11.412 $\pm$ 0.001 χ^2 /NDF: 546577.1/68

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: 41.650 ± 53.119 χ^2/NDF : 5.3/15

Left: 31.157 ± 40.551 χ^2/NDF : 9.7/32

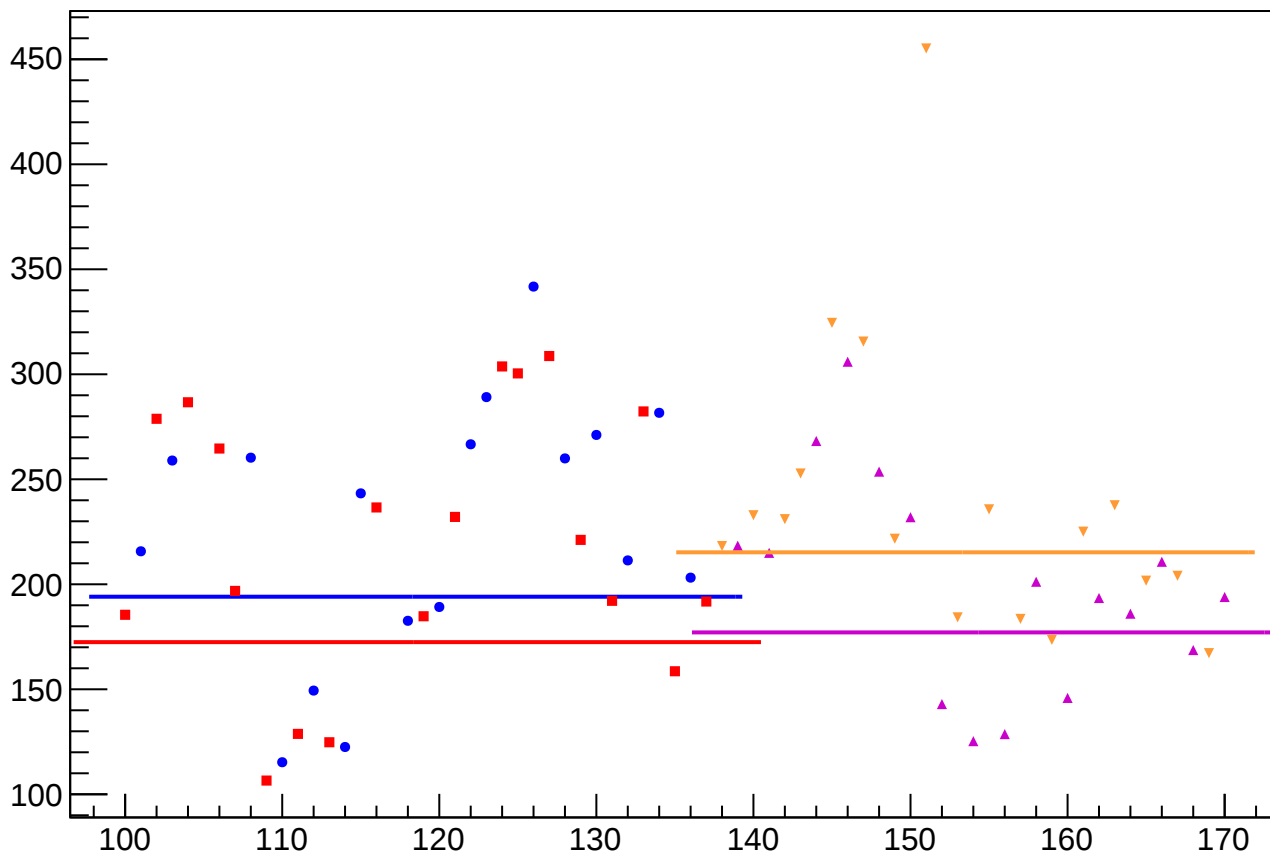
Right: 34.014 ± 52.536 χ^2/NDF : 14.1/35

In: 50.277 ± 44.121 χ^2/NDF : 12.6/32

Out: 11.920 ± 46.790 χ^2/NDF : 10.9/35

All: 32.224 ± 32.100 χ^2/NDF : 23.8/68

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 215.222 $\pm$ 0.044 χ^2 /NDF:1134138.0/16

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 177.083 $\pm$ 0.038 χ^2 /NDF:1503574.3/15

Left: 192.997 $\pm$ 0.029 χ^2 /NDF: 3067891.3/32

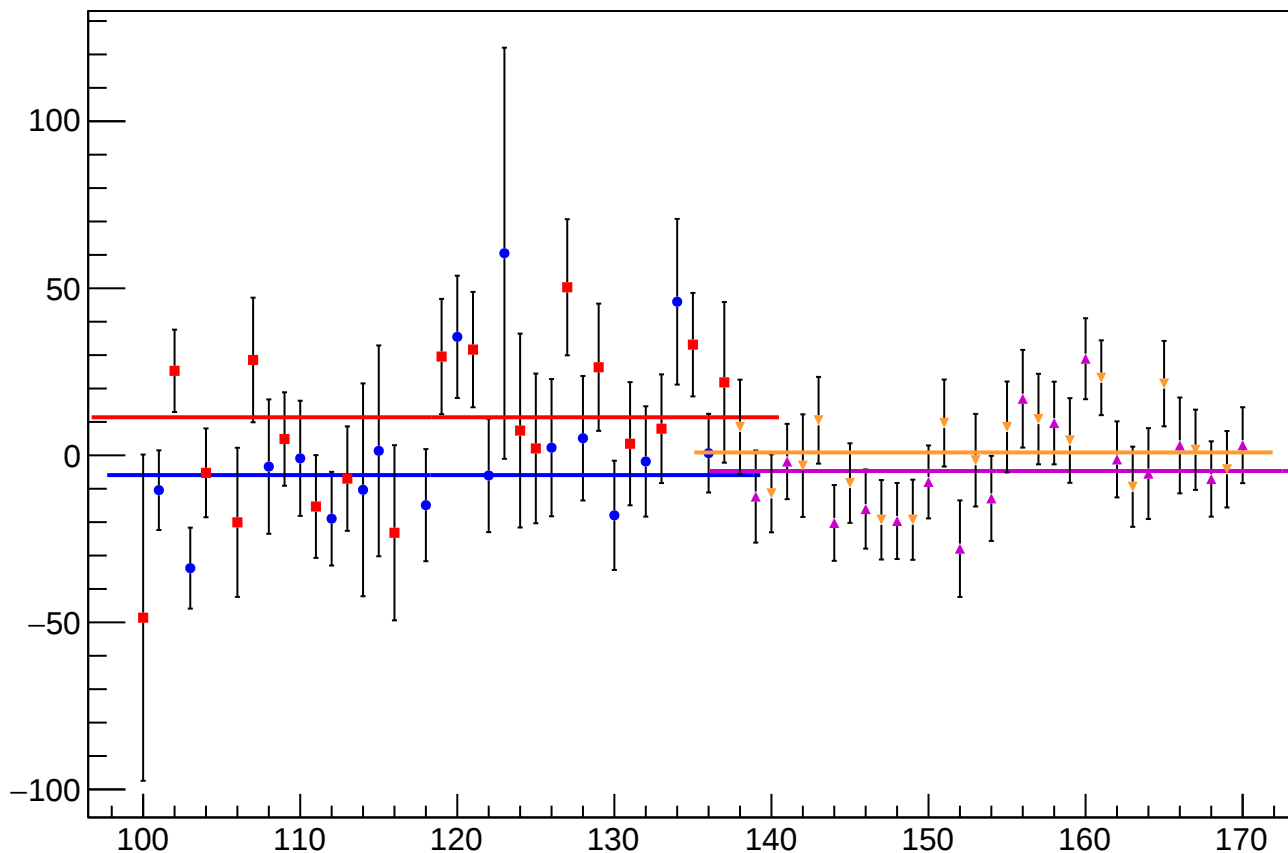
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 182.355 $\pm$ 0.031 χ^2 /NDF:2572478.0/32

Out: 196.212 $\pm$ 0.033 χ^2 /NDF:3116235.6/35

All: 188.877 $\pm$ 0.023 χ^2 /NDF: 5781567.9/68

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 $\pm$ 4.133 χ^2/NDF : 18.8/16

Left Out: 0.866 $\pm$ 3.052 χ^2/NDF :17.2/16

Right Out: 11.391 $\pm$ 4.079 χ^2/NDF : 22.9/18

Left In: -4.686 $\pm$ 3.061 χ^2/NDF :20.1/15

Left: -1.901 $\pm$ 2.161 χ^2/NDF : 39.0/32

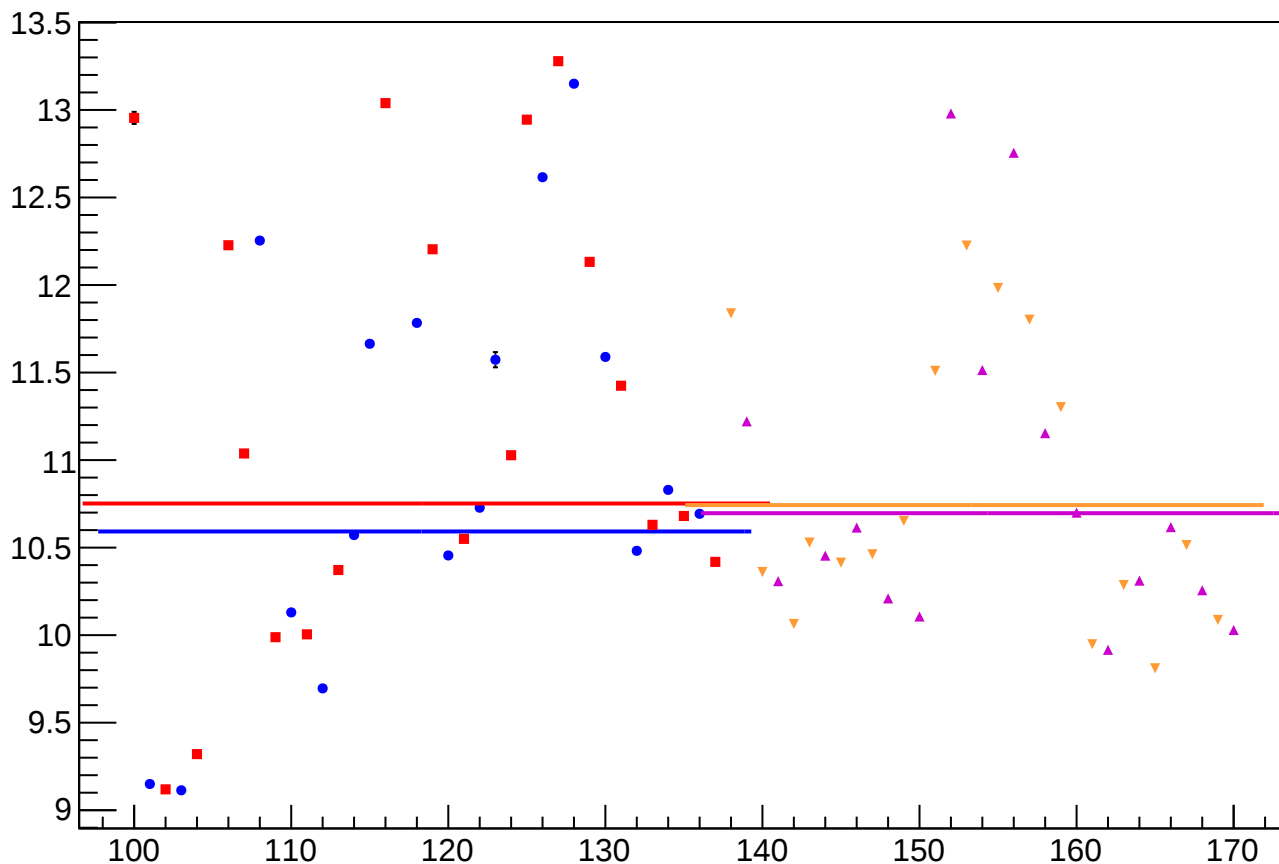
Right: 2.855 $\pm$ 2.903 χ^2/NDF : 50.6/35

In: -5.120 $\pm$ 2.460 χ^2/NDF :39.0/32

Out: 4.643 $\pm$ 2.443 χ^2/NDF :44.4/35

All: -0.205 $\pm$ 1.734 χ^2/NDF : 91.3/68

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: 10.697 $\pm$ 0.002 χ^2 /NDF:137338.1/15

Left: 10.720 $\pm$ 0.002 χ^2 /NDF: 252438.8/32

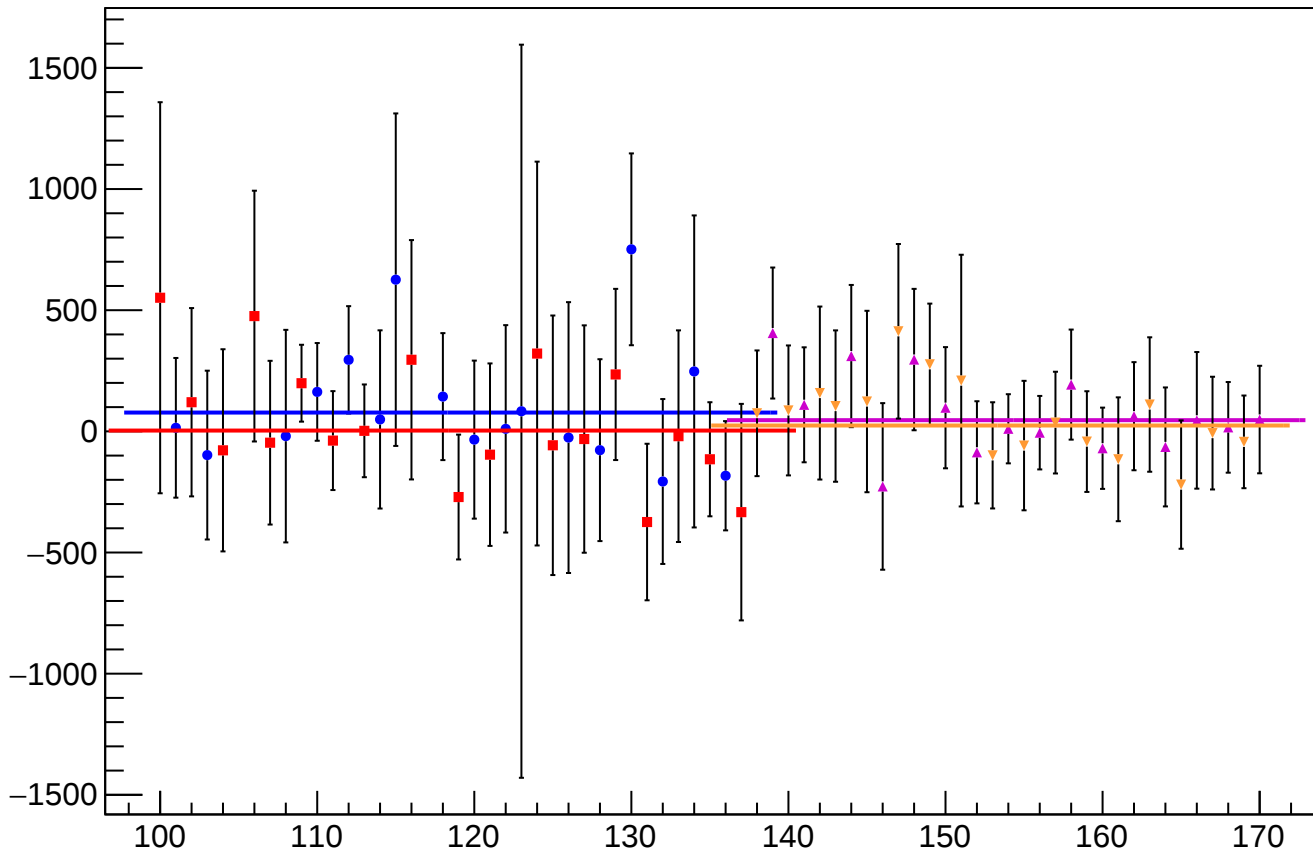
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.660 $\pm$ 0.002 χ^2 /NDF:298560.2/32

Out: 10.746 $\pm$ 0.002 χ^2 /NDF:291772.9/35

All: 10.703 $\pm$ 0.001 χ^2 /NDF: 591578.8/68

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: 46.189 $\pm$ 53.647 χ^2 /NDF:5.8/15

Left: 36.964 $\pm$ 40.897 χ^2 /NDF: 10.4/32

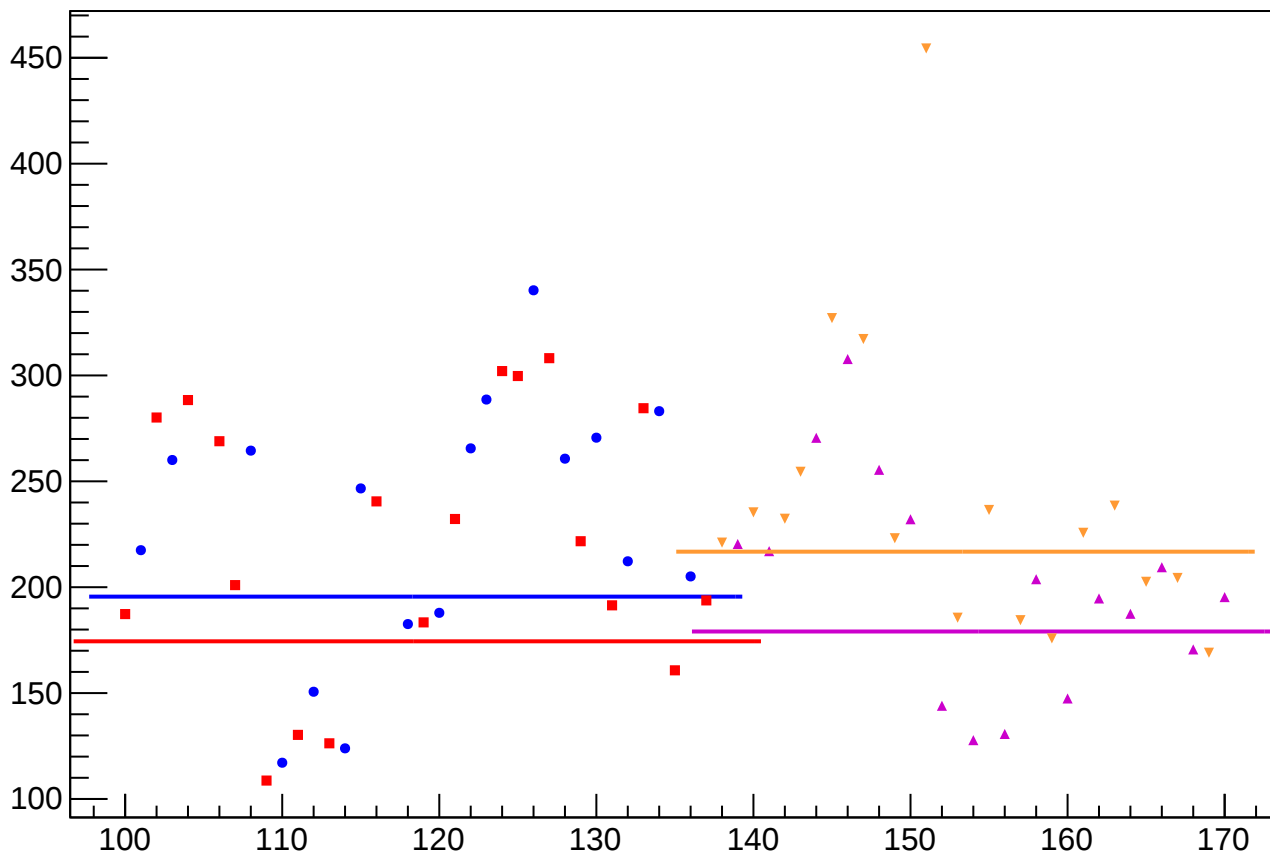
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 55.971 $\pm$ 44.513 χ^2 /NDF:13.4/32

Out: 14.924 $\pm$ 47.161 χ^2 /NDF:12.0/35

All: 36.632 $\pm$ 32.371 χ^2 /NDF: 25.8/68

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2/NDF : 979937.7/16

Left Out: 216.782 $\pm$ 0.045 χ^2/NDF : 1119278.5/16

Right Out: 174.449 $\pm$ 0.050 χ^2/NDF : 1528629.1/18

Left In: 179.084 $\pm$ 0.038 χ^2/NDF : 1461484.7/15

Left: 194.874 $\pm$ 0.029 χ^2/NDF : 2994402.6/32

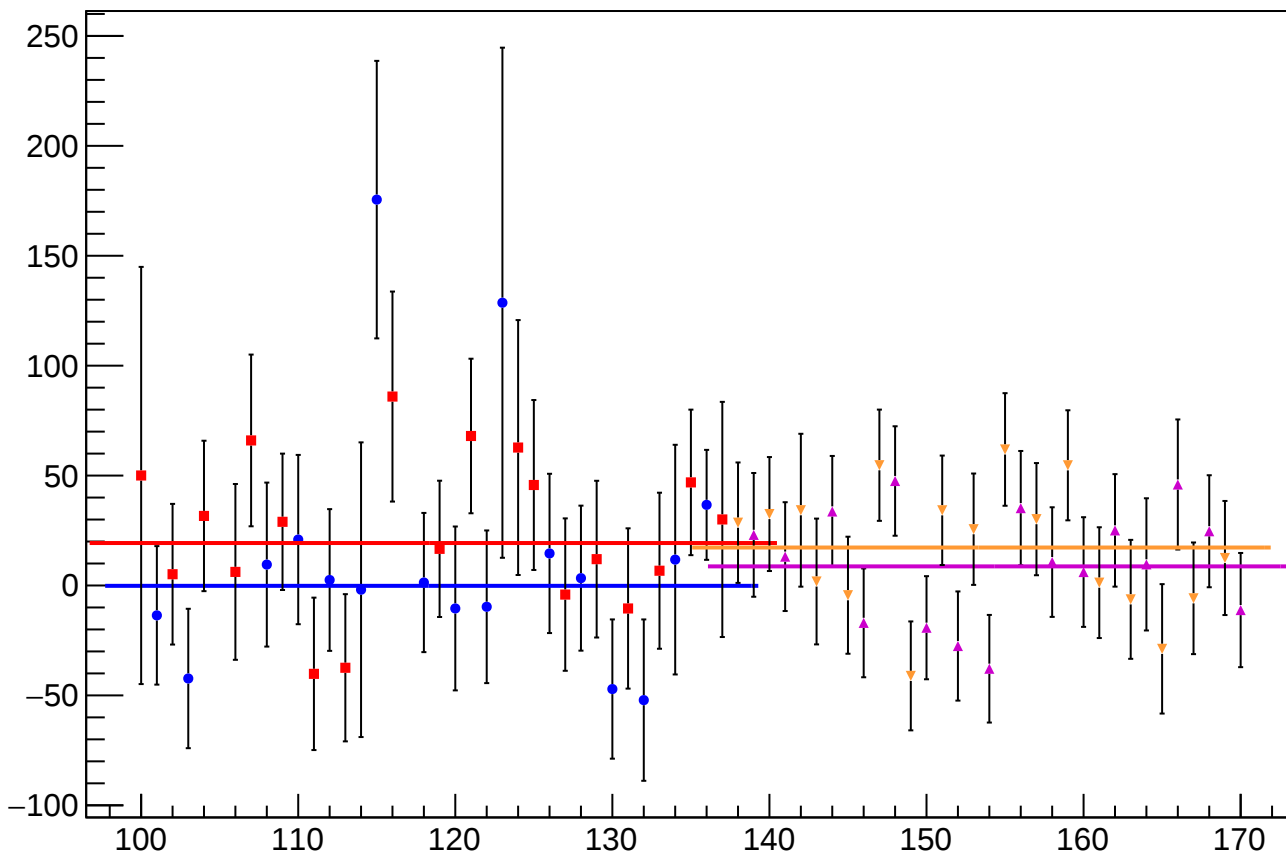
Right: 183.758 $\pm$ 0.037 χ^2/NDF : 2586820.6/35

In: 184.214 $\pm$ 0.031 χ^2/NDF : 2500126.7/32

Out: 198.027 $\pm$ 0.033 χ^2/NDF : 3045537.1/35

All: 190.722 $\pm$ 0.023 χ^2/NDF : 5636404.7/68

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: 8.690 ± 6.414 $\chi^2/\text{NDF}: 16.0/15$

Left: 12.991 ± 4.530 $\chi^2/\text{NDF}: 36.9/32$

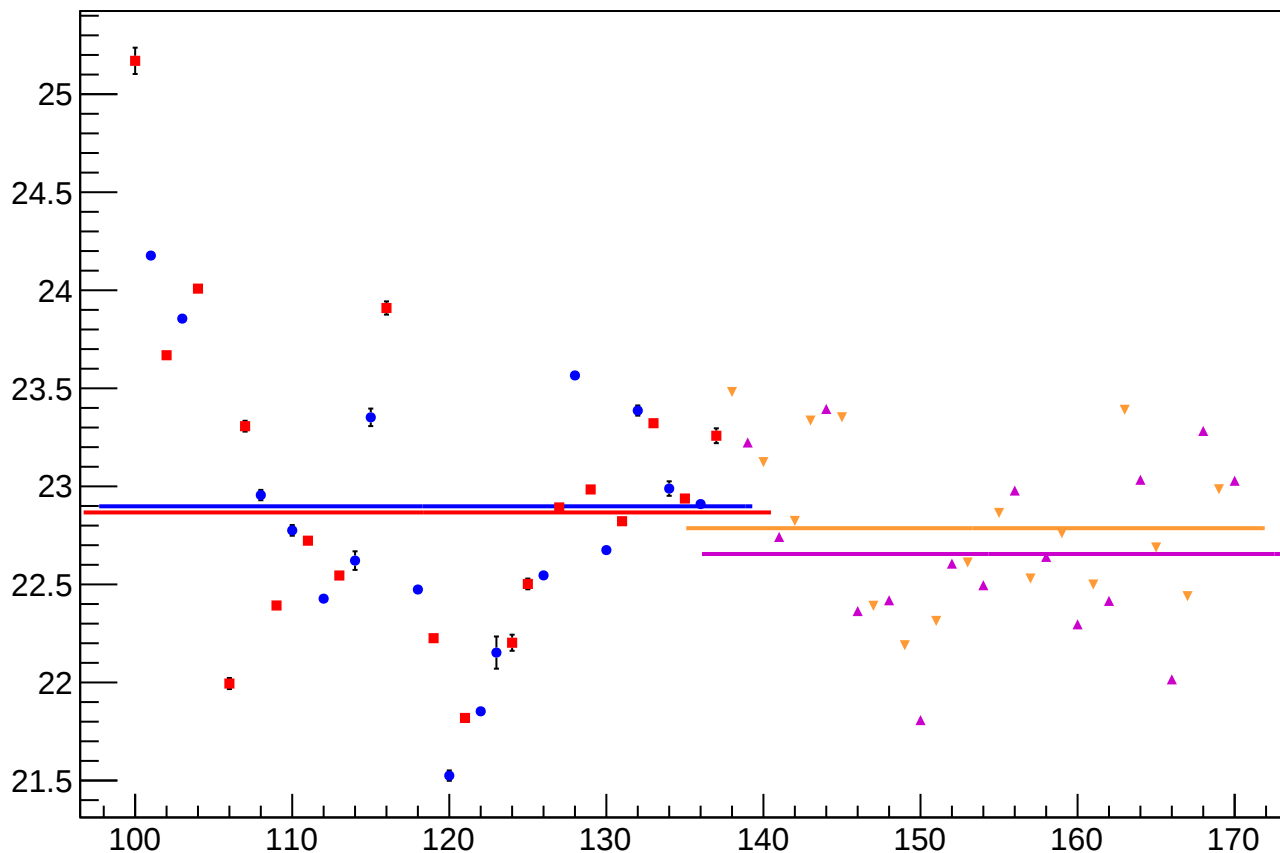
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 5.632 ± 5.189 $\chi^2/\text{NDF}: 34.7/32$

Out: 18.004 ± 5.123 $\chi^2/\text{NDF}: 34.9/35$

All: 11.897 ± 3.646 $\chi^2/\text{NDF}: 72.4/68$

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: 22.655 $\pm$ 0.005 χ^2 /NDF: 9488.5/15

Left: 22.721 $\pm$ 0.003 χ^2 /NDF: 17632.5/32

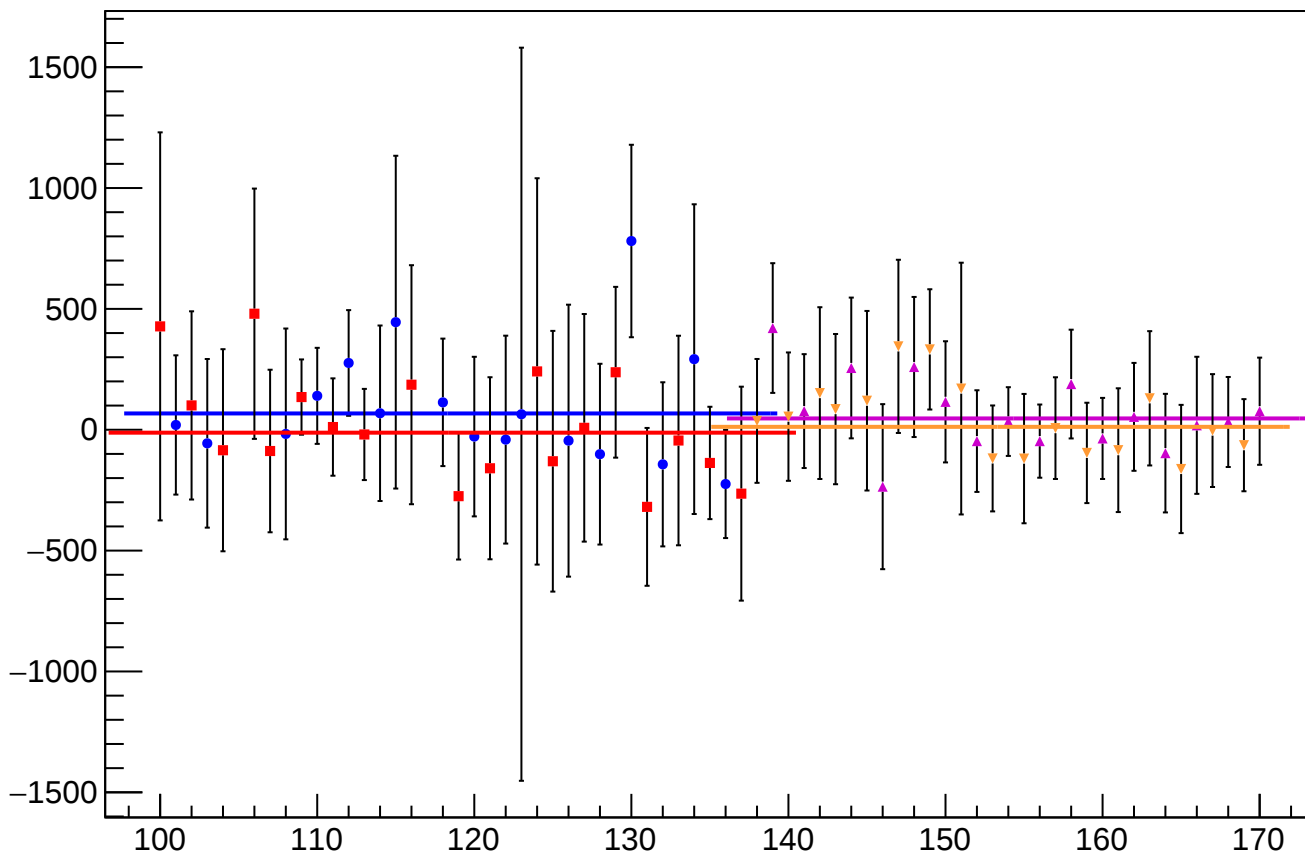
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.739 $\pm$ 0.004 χ^2 /NDF: 22625.2/32

Out: 22.815 $\pm$ 0.004 χ^2 /NDF: 18884.1/35

All: 22.778 $\pm$ 0.003 χ^2 /NDF: 41728.2/68

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 12.013 $\pm$ 63.060 χ^2 /NDF:4.7/16

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 46.790 $\pm$ 53.496 χ^2 /NDF:5.4/15

Left: 32.236 $\pm$ 40.794 χ^2 /NDF: 10.3/32

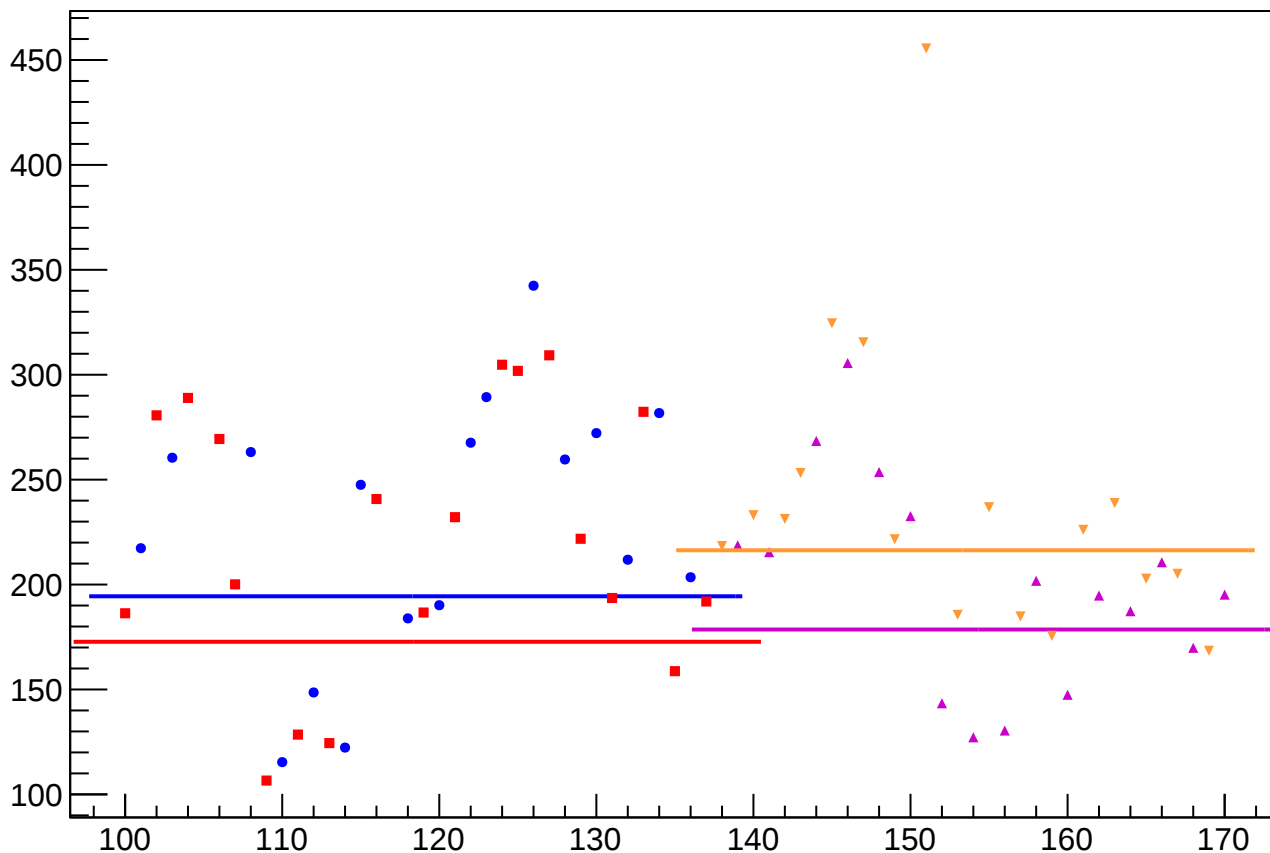
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 53.239 $\pm$ 44.366 χ^2 /NDF:12.8/32

Out: 1.264 $\pm$ 46.958 χ^2 /NDF:10.5/35

All: 28.725 $\pm$ 32.249 χ^2 /NDF: 24.0/68

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 216.341 $\pm$ 0.045 χ^2 /NDF:1110391.5/16

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 178.574 $\pm$ 0.038 χ^2 /NDF:1451689.3/15

Left: 194.380 $\pm$ 0.029 χ^2 /NDF: 2979249.9/32

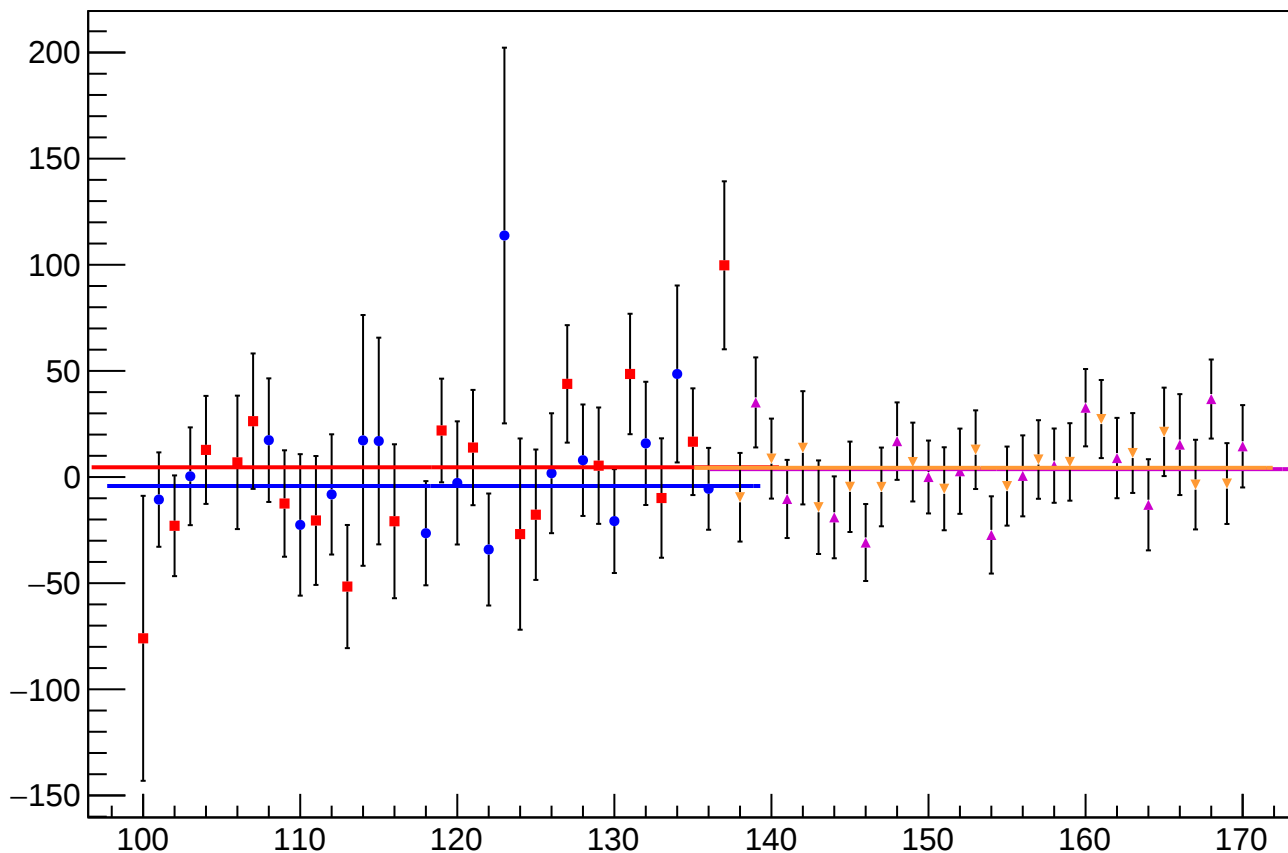
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 183.518 $\pm$ 0.031 χ^2 /NDF:2526319.6/32

Out: 196.913 $\pm$ 0.033 χ^2 /NDF:3133289.7/35

All: 189.836 $\pm$ 0.023 χ^2 /NDF: 5745598.3/68

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 χ^2/NDF : 8.0/16

Left Out: 4.344 ± 4.767 χ^2/NDF : 5.2/16

Right Out: 4.599 ± 6.725 χ^2/NDF : 21.1/18

Left In: 3.719 ± 4.762 χ^2/NDF : 18.2/15

Left: 4.031 ± 3.369 χ^2/NDF : 23.4/32

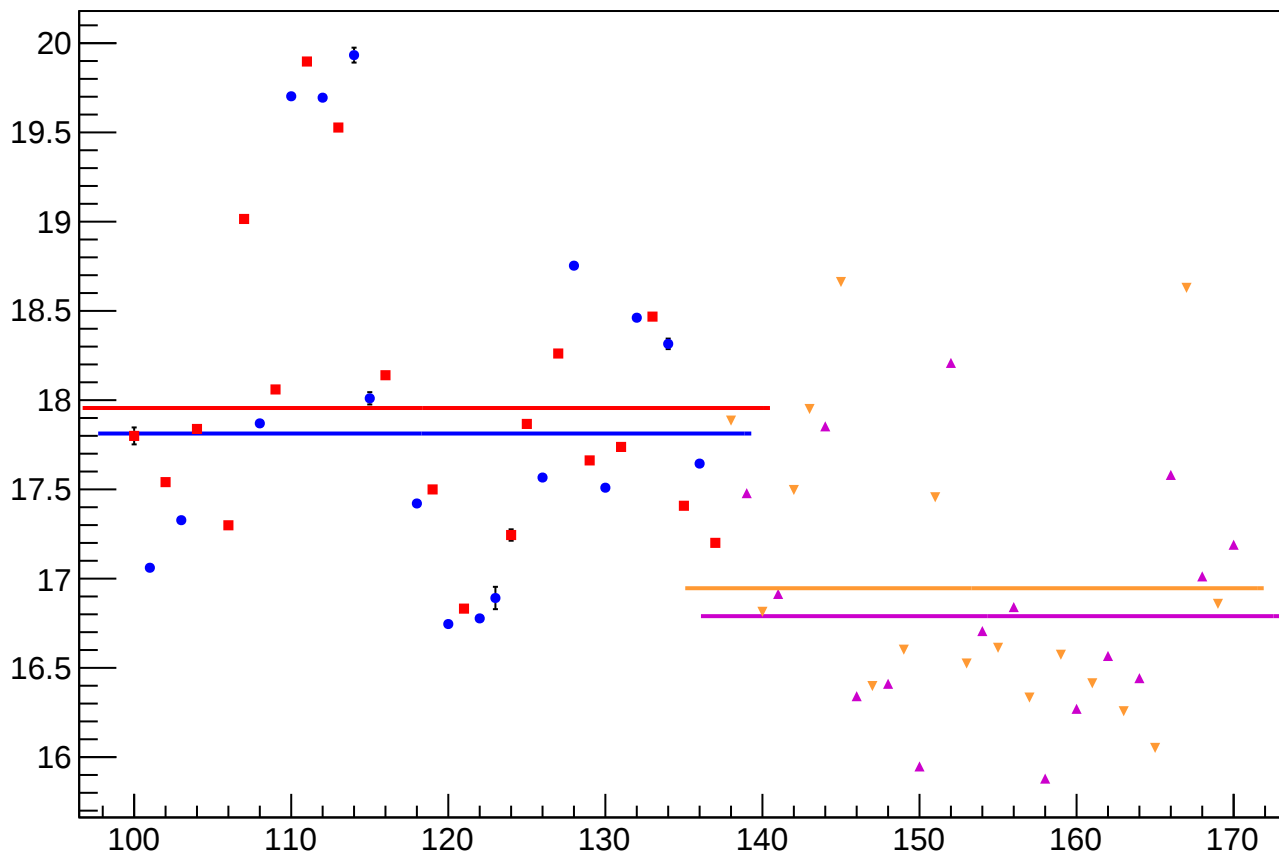
Right: 0.283 ± 4.806 χ^2/NDF : 29.9/35

In: 1.142 ± 3.914 χ^2/NDF : 27.1/32

Out: 4.429 ± 3.889 χ^2/NDF : 26.2/35

All: 2.796 ± 2.759 χ^2/NDF : 53.7/68

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 16.946 $\pm$ 0.003 χ^2 /NDF: 51423.8/16

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.790 $\pm$ 0.003 χ^2 /NDF: 36403.3/15

Left: 16.868 $\pm$ 0.002 χ^2 /NDF: 88905.4/32

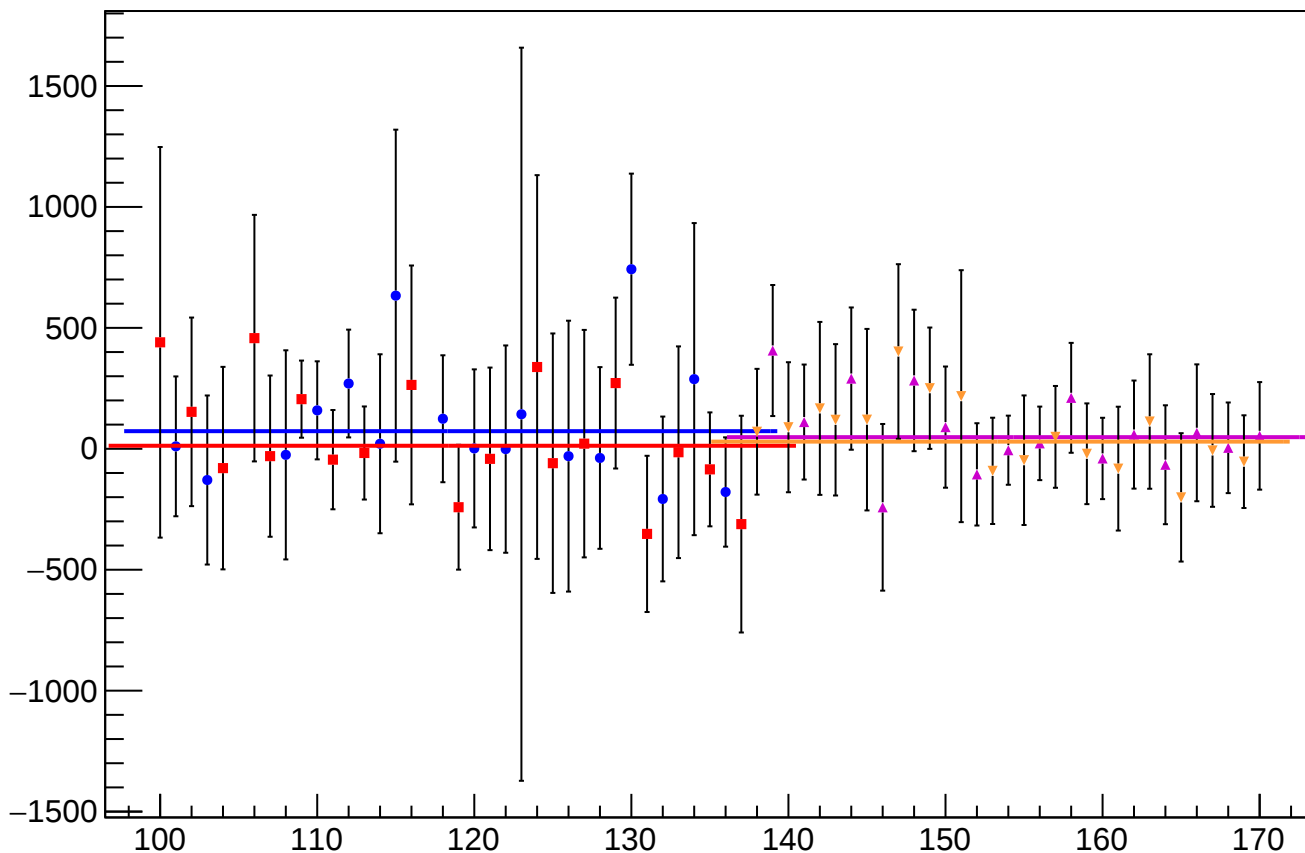
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.122 $\pm$ 0.003 χ^2 /NDF: 98396.1/32

Out: 17.284 $\pm$ 0.003 χ^2 /NDF: 106877.1/35

All: 17.203 $\pm$ 0.002 χ^2 /NDF: 206999.9/68

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 29.724+/-63.333 χ^2/NDF : 4.0/16

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 48.113+/-53.756 χ^2/NDF : 5.6/15

Left: 40.412+/-40.984 χ^2/NDF : 9.7/32

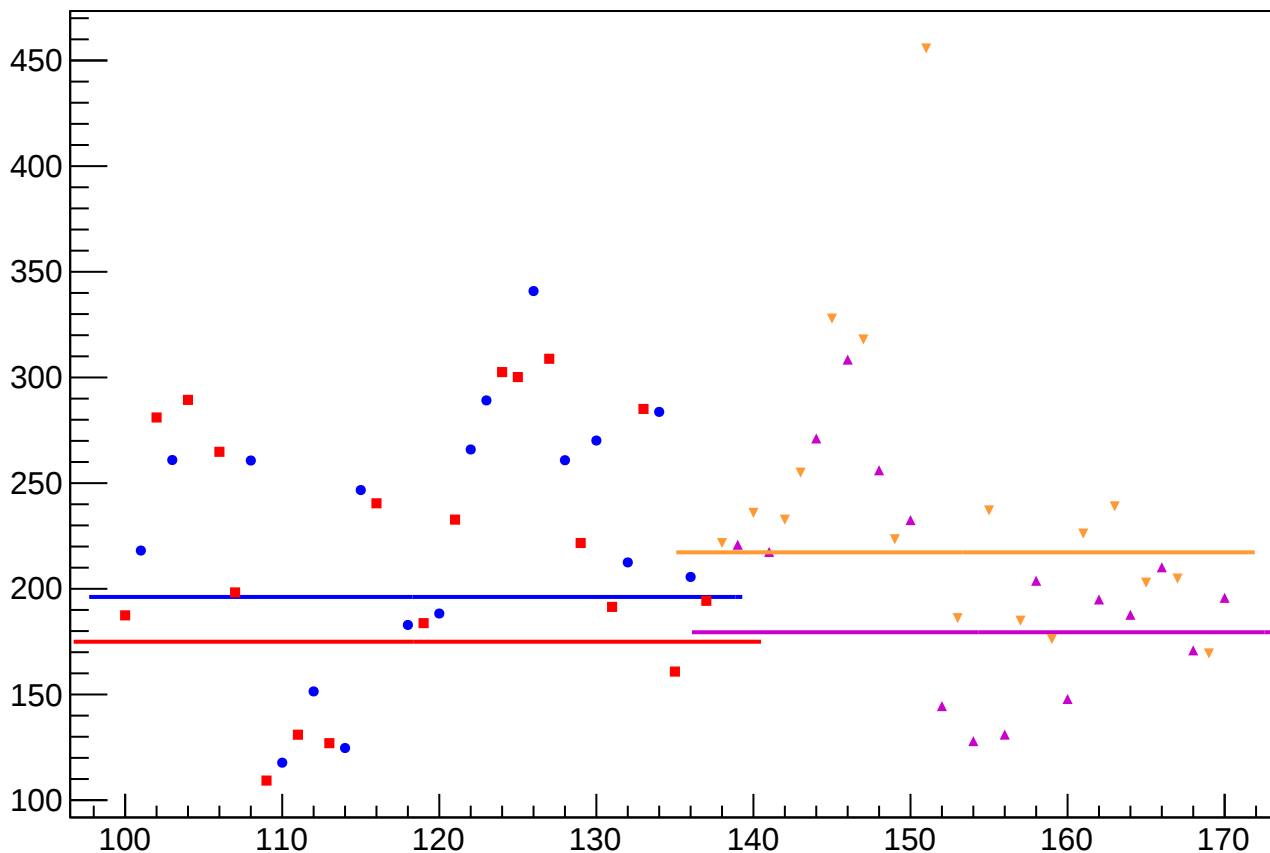
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 55.826+/-44.610 χ^2/NDF : 12.9/32

Out: 22.122+/-47.266 χ^2/NDF : 10.8/35

All: 39.948+/-32.442 χ^2/NDF : 24.0/68

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: 179.447+/-0.038 χ^2/NDF :1461250.0/15

Left: 195.282+/-0.029 χ^2/NDF : 2995151.6/32

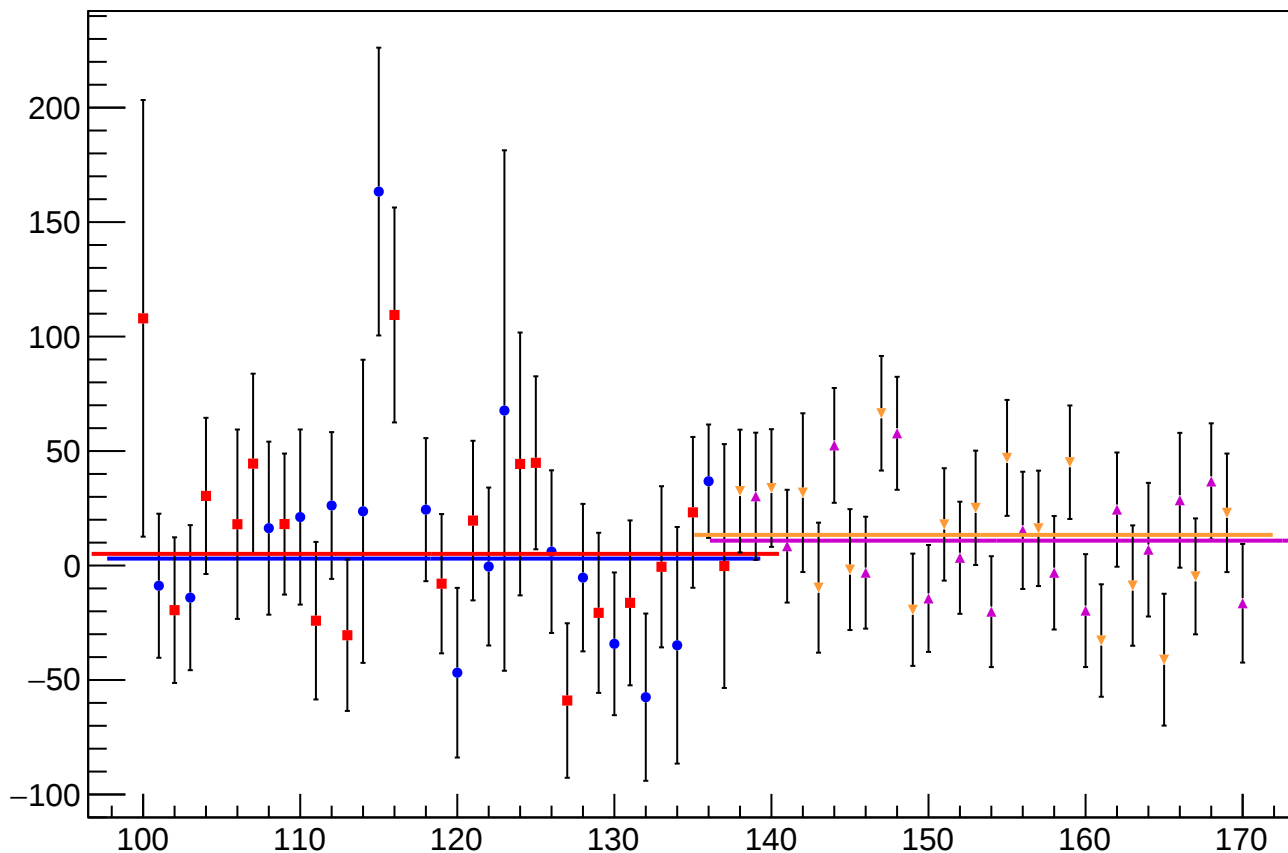
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.648+/-0.032 χ^2/NDF :2486371.9/32

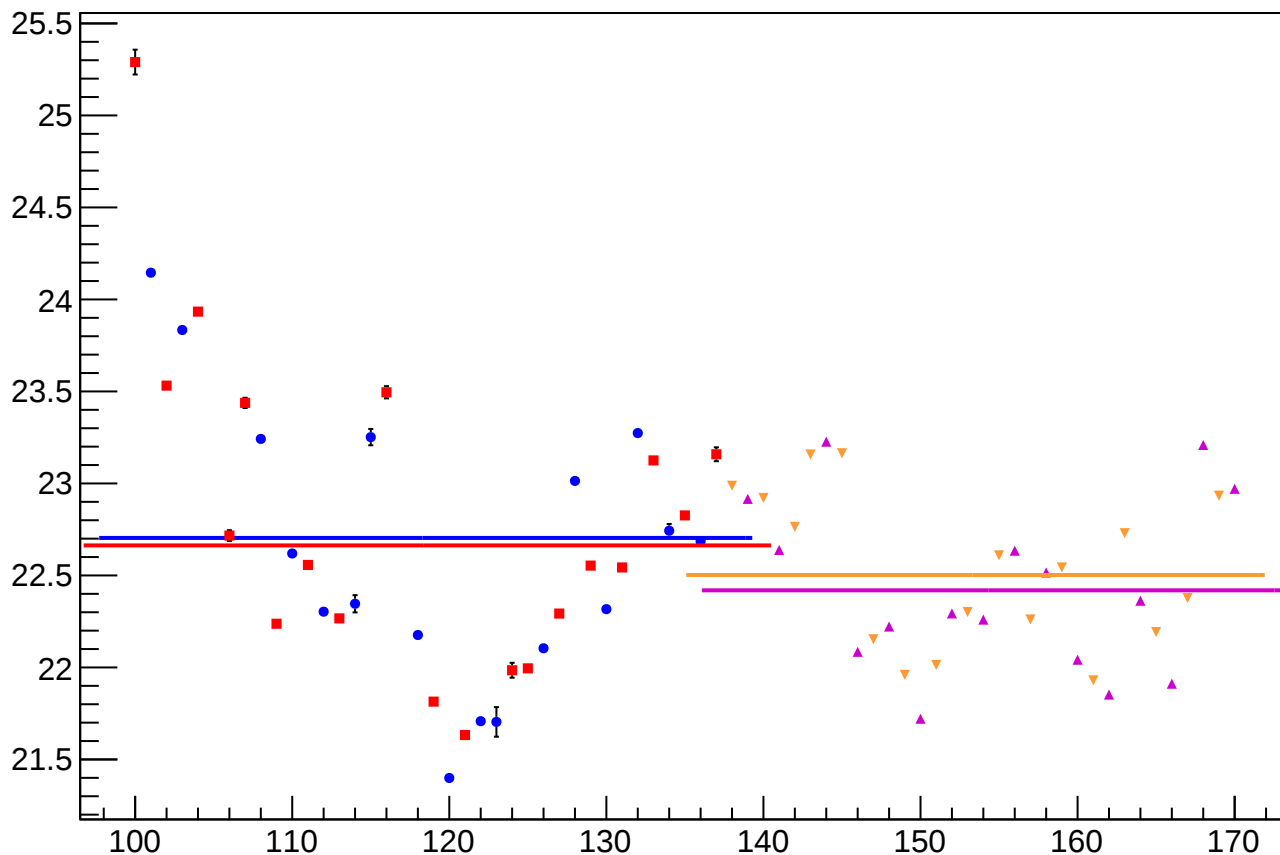
Out: 198.524+/-0.033 χ^2/NDF :3025625.0/35

All: 191.185+/-0.023 χ^2/NDF : 5603158.9/68

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



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: 22.419 $\pm$ 0.004 χ^2 /NDF:10414.2/15

Left: 22.461 $\pm$ 0.003 χ^2 /NDF: 18794.4/32

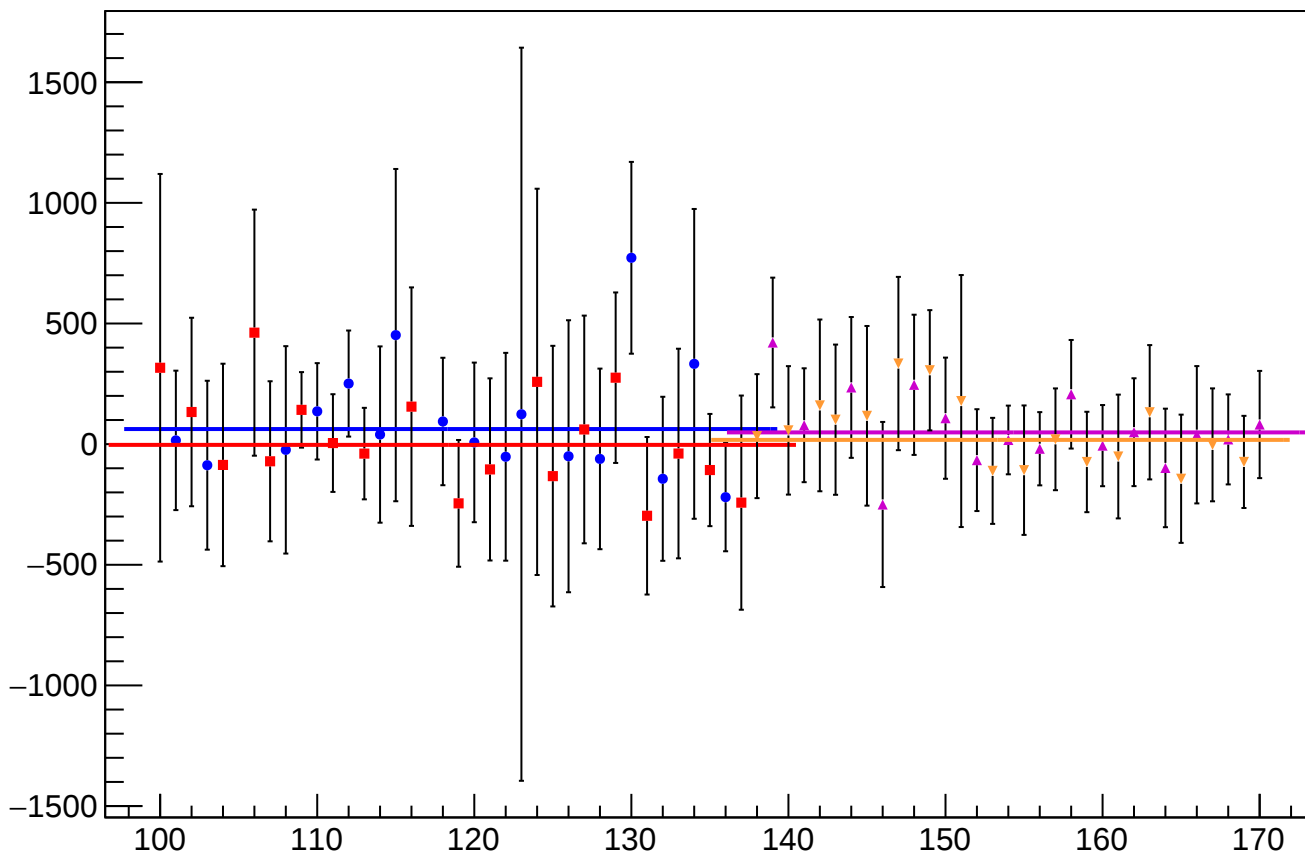
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.517 $\pm$ 0.004 χ^2 /NDF:25908.0/32

Out: 22.560 $\pm$ 0.004 χ^2 /NDF:21613.5/35

All: 22.539 $\pm$ 0.003 χ^2 /NDF: 47590.9/68

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: 48.648+/-53.604 χ^2/NDF :5.2/15

Left: 35.677+/-40.880 χ^2/NDF : 9.5/32

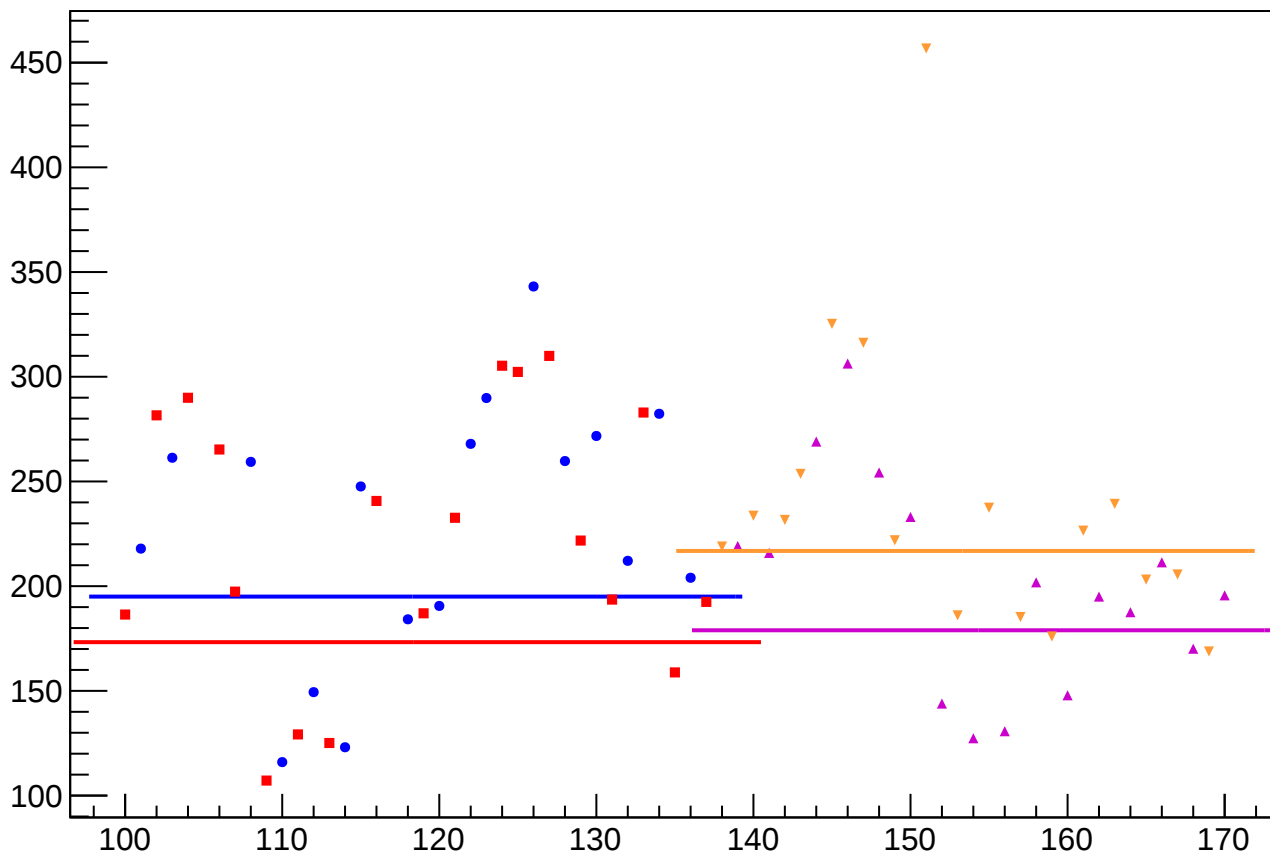
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 52.992+/-44.463 χ^2/NDF :12.2/32

Out: 8.433+/-47.064 χ^2/NDF :9.4/35

All: 31.978+/-32.321 χ^2/NDF : 22.1/68

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: 178.935 $\pm$ 0.038 χ^2 /NDF:1451548.1/15

Left: 194.787 $\pm$ 0.029 χ^2 /NDF: 2980127.0/32

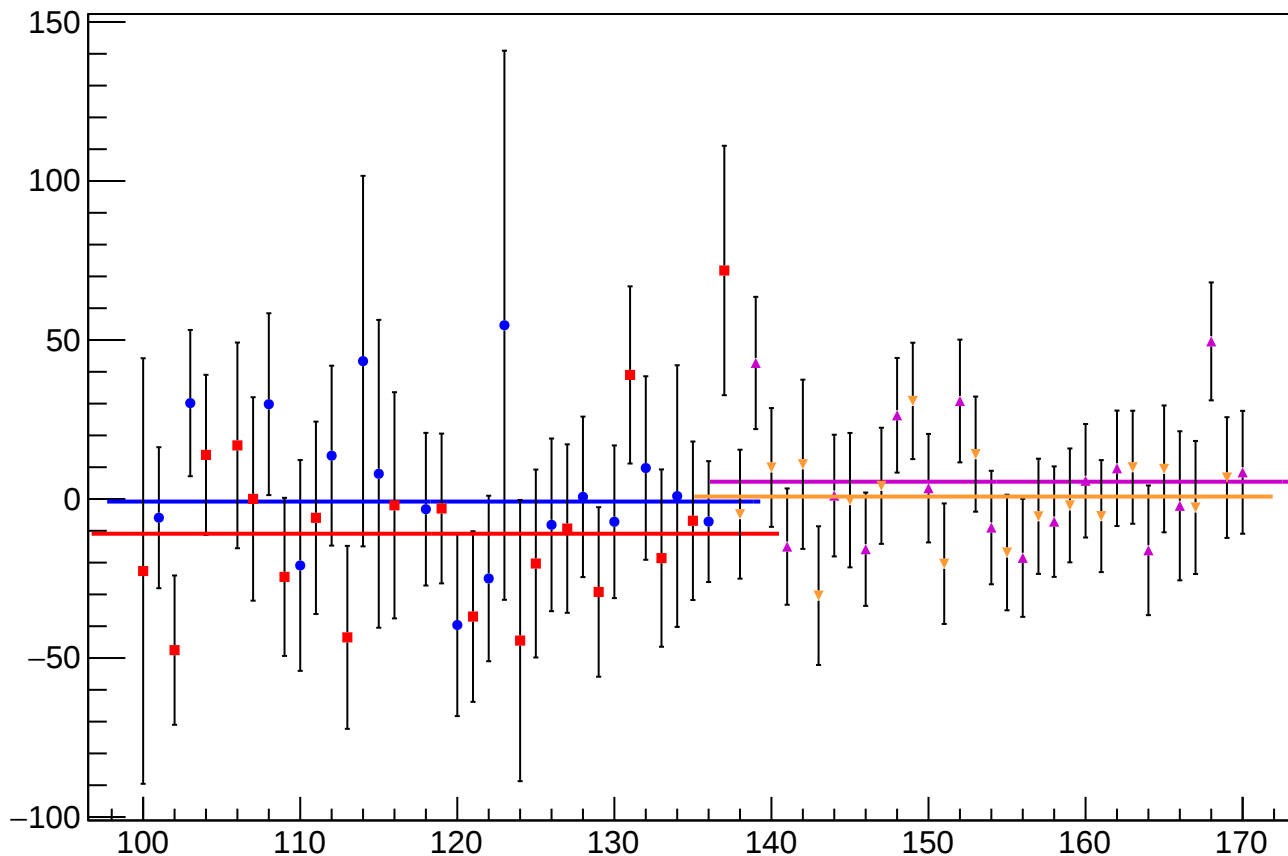
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 183.954 $\pm$ 0.031 χ^2 /NDF:2512025.0/32

Out: 197.418 $\pm$ 0.033 χ^2 /NDF:3111990.8/35

All: 190.304 $\pm$ 0.023 χ^2 /NDF: 5710501.0/68

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: 5.441 ± 4.676 χ^2/NDF : 18.8/15

Left: 3.099 ± 3.301 χ^2/NDF : 28.1/32

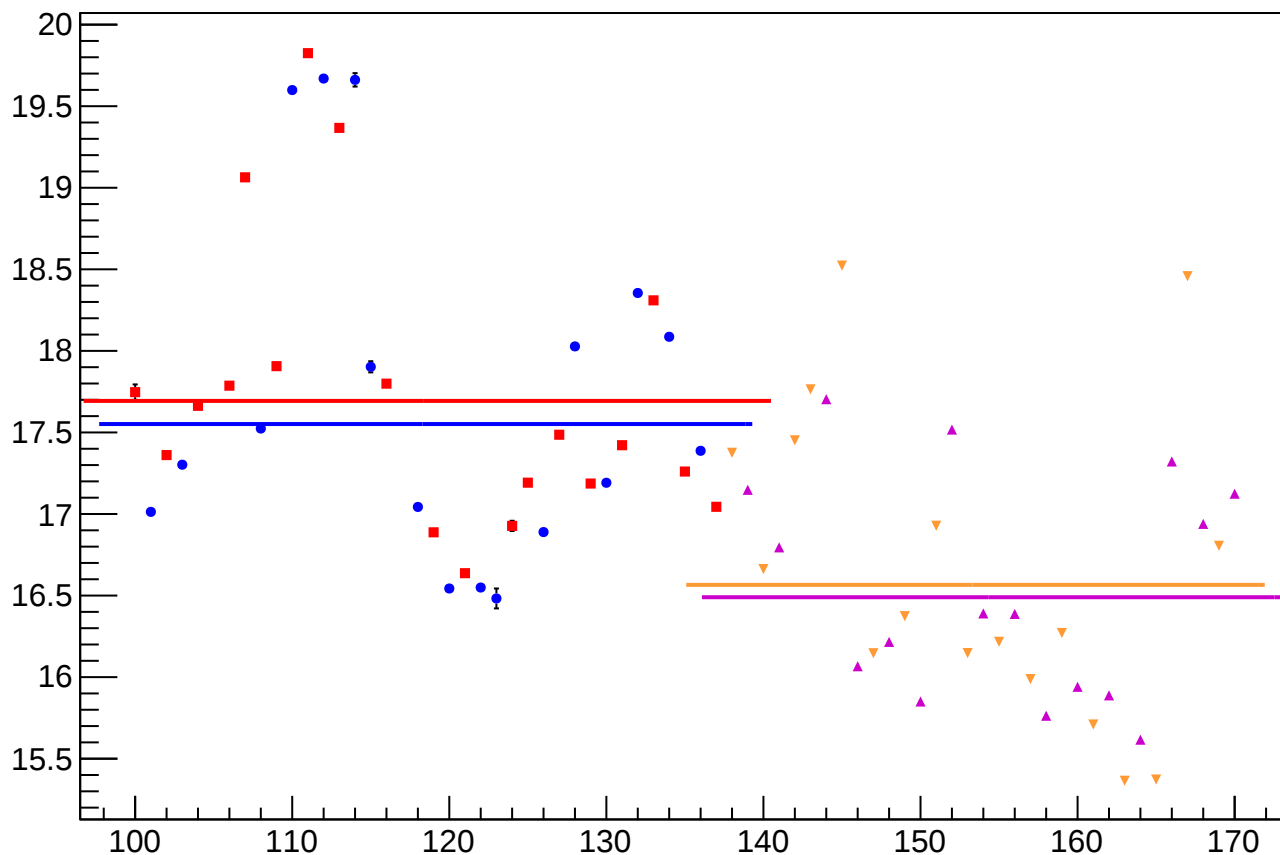
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 3.425 ± 3.848 χ^2/NDF : 27.2/32

Out: -3.094 ± 3.812 χ^2/NDF : 26.8/35

All: 0.135 ± 2.708 χ^2/NDF : 55.4/68

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: 16.490 $\pm$ 0.003 χ^2 /NDF: 37924.8/15

Left: 16.528 $\pm$ 0.002 χ^2 /NDF: 110925.2/32

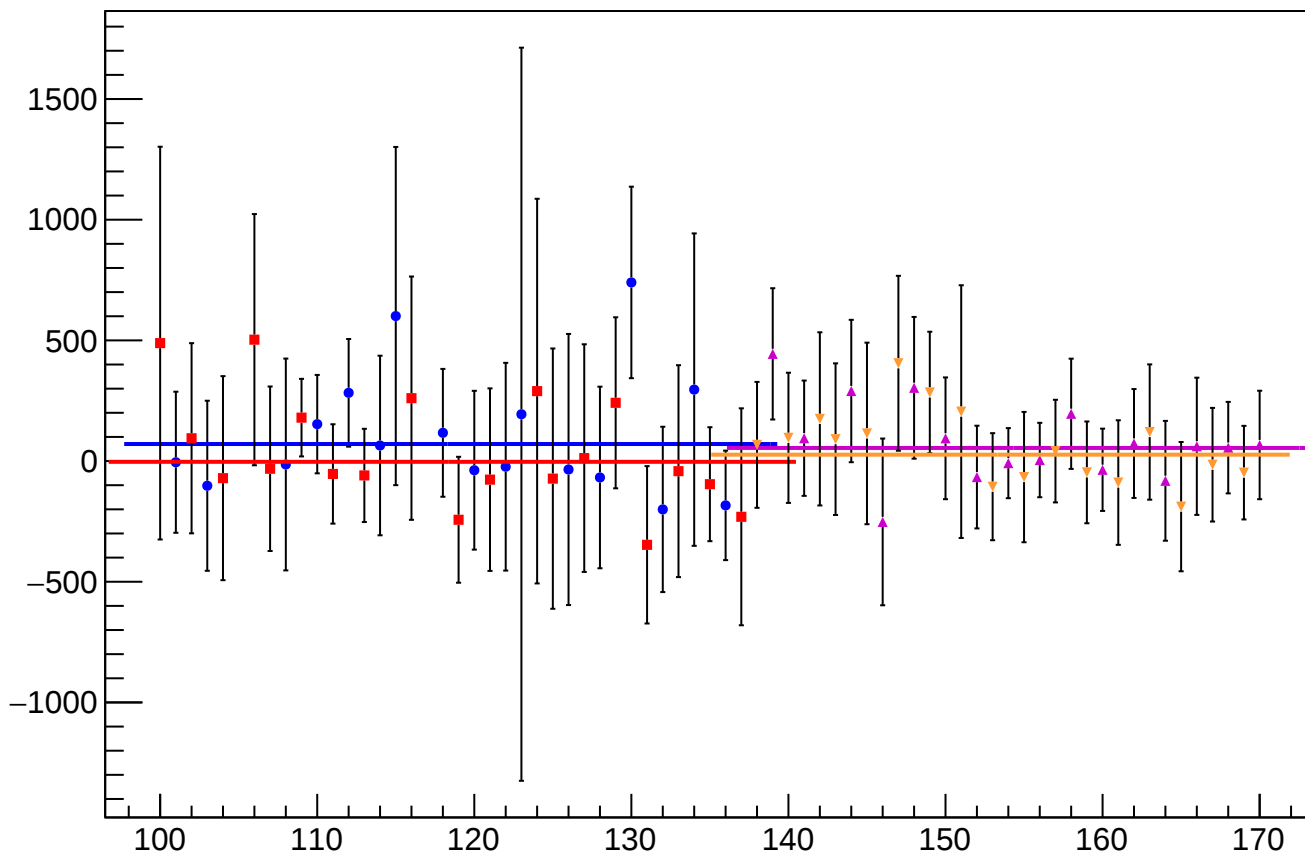
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.833 $\pm$ 0.003 χ^2 /NDF: 105249.9/32

Out: 16.939 $\pm$ 0.003 χ^2 /NDF: 142242.2/35

All: 16.886 $\pm$ 0.002 χ^2 /NDF: 248259.2/68

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: 54.346+/-54.287 χ^2/NDF : 5.8/15

Left: 42.690+/-41.351 χ^2/NDF : 10.3/32

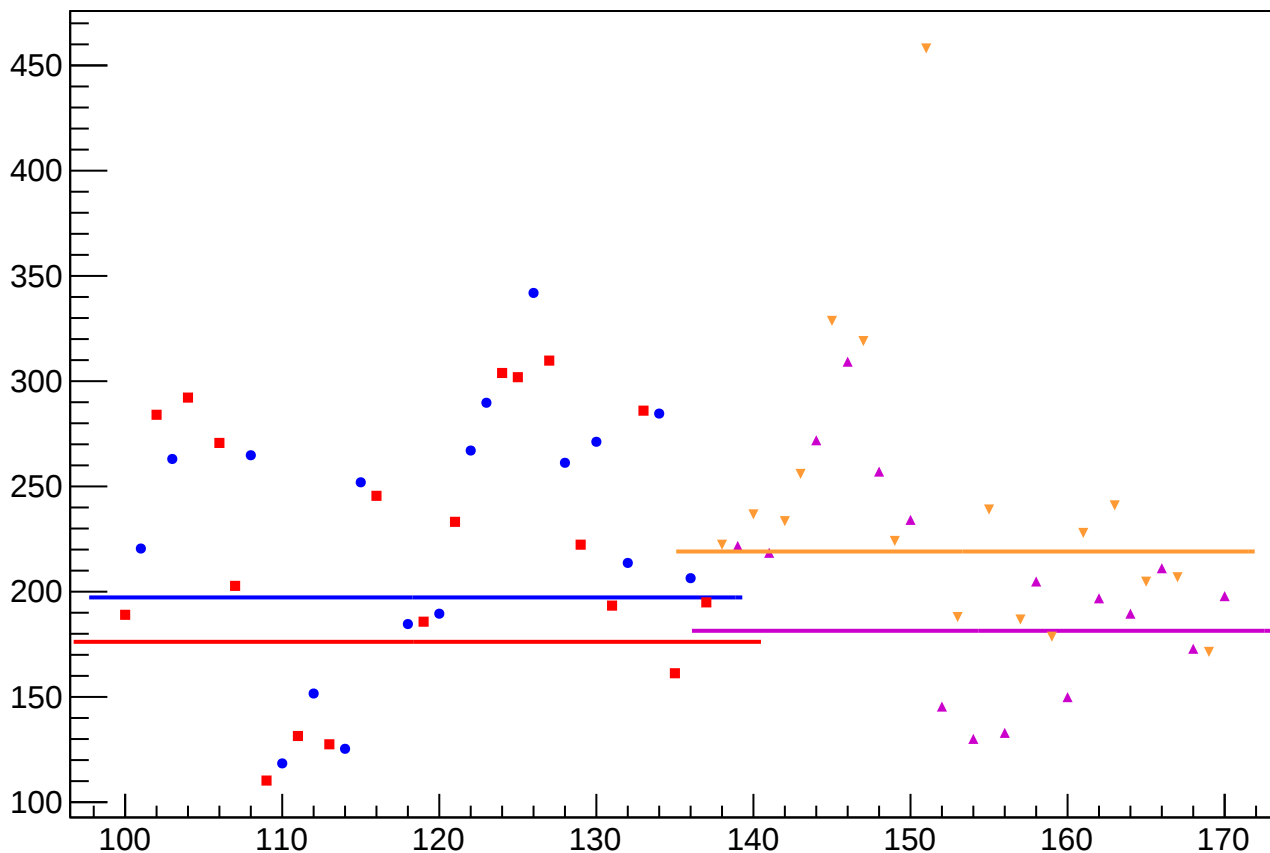
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 59.446+/-44.993 χ^2/NDF : 13.1/32

Out: 13.436+/-47.616 χ^2/NDF : 10.6/35

All: 37.743+/-32.703 χ^2/NDF : 24.2/68

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: 181.417+/-0.038 χ^2/NDF : 1417008.0/15

Left: 197.230+/-0.029 χ^2/NDF : 2917136.3/32

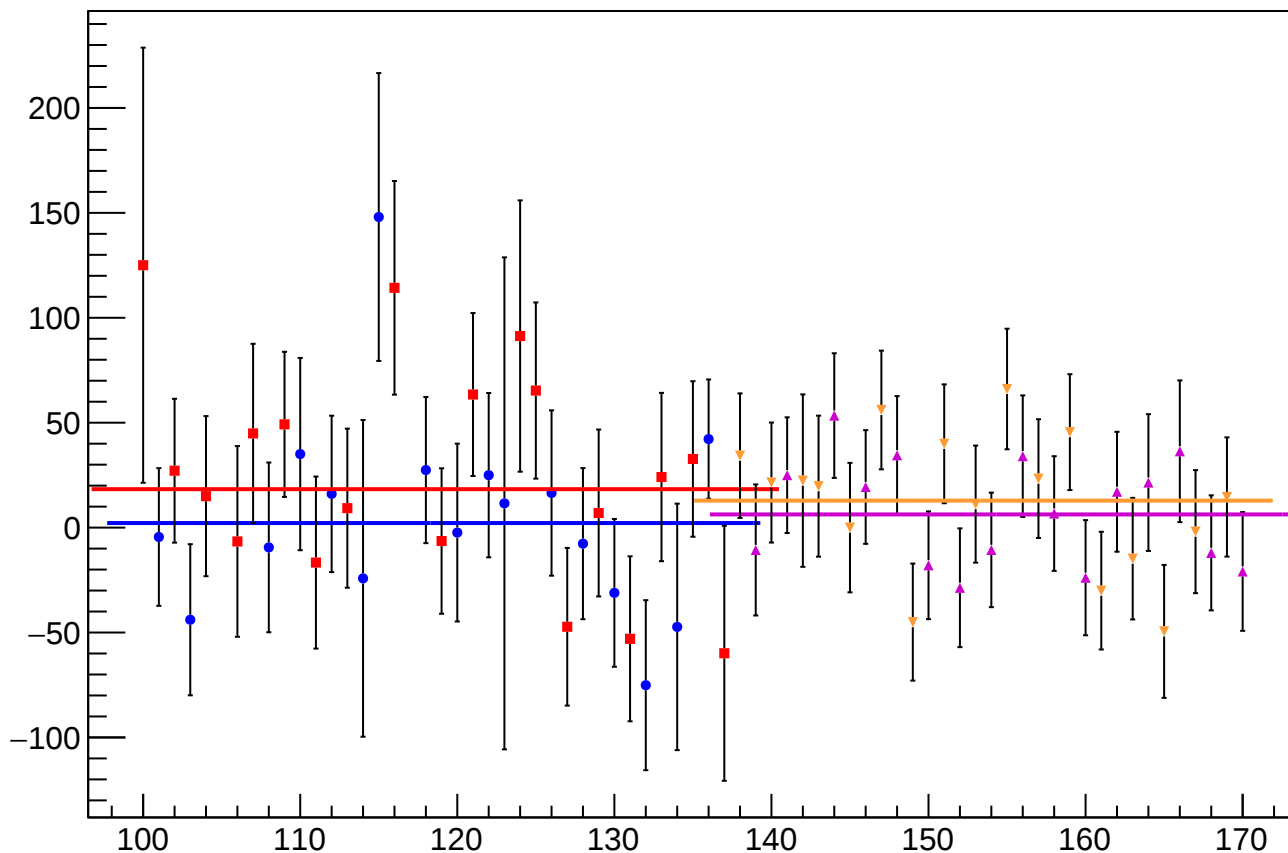
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 186.381+/-0.032 χ^2/NDF : 2439964.9/32

Out: 200.062+/-0.034 χ^2/NDF : 3016371.7/35

All: 192.834+/-0.023 χ^2/NDF : 5543564.8/68

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: 6.285+/-7.127 χ^2/NDF : 12.0/15

Left: 9.566+/-5.046 χ^2/NDF : 33.2/32

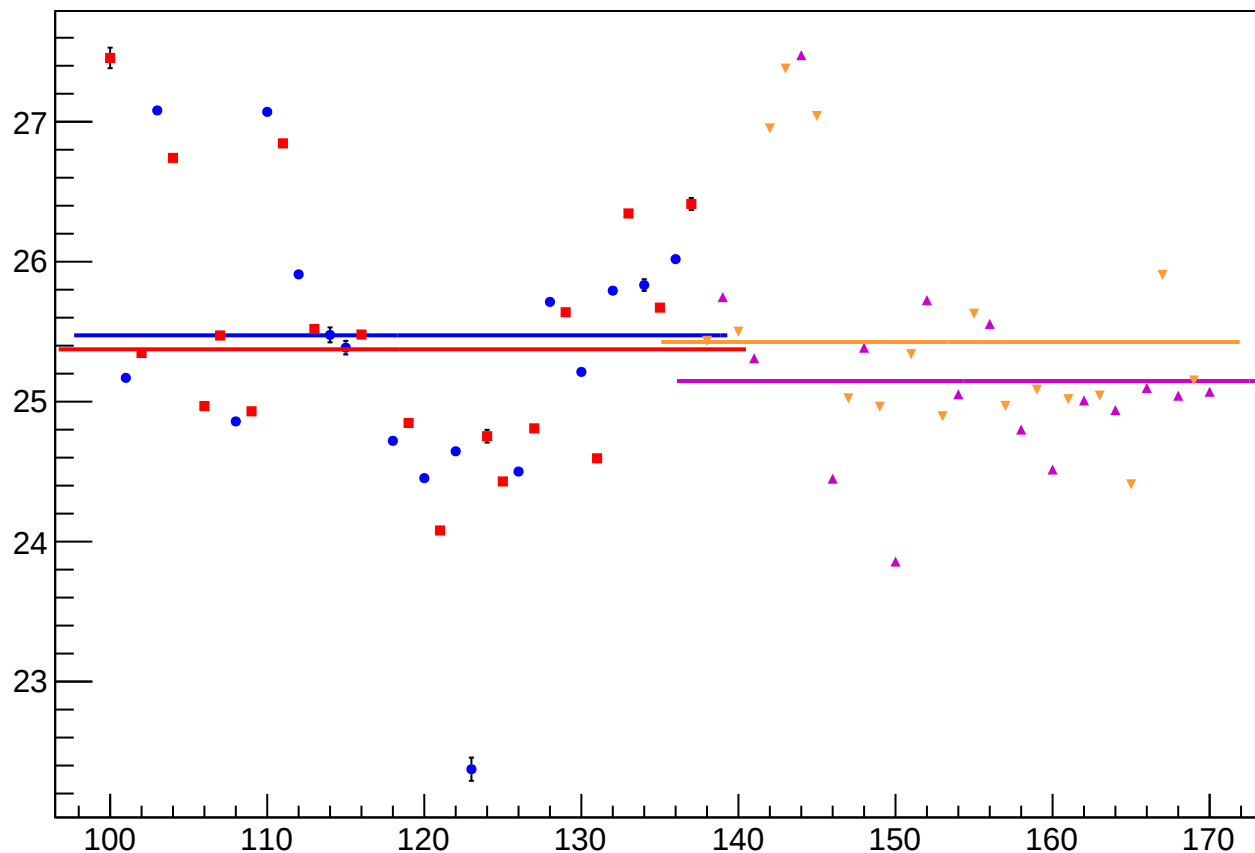
Right: 10.522+/-6.828 χ^2/NDF : 36.4/35

In: 4.869+/-5.769 χ^2/NDF : 27.4/32

Out: 14.836+/-5.710 χ^2/NDF : 40.6/35

All: 9.904+/-4.058 χ^2/NDF : 69.5/68

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: 25.147 $\pm$ 0.005 χ^2 /NDF:22432.8/15

Left: 25.286 $\pm$ 0.004 χ^2 /NDF: 45148.8/32

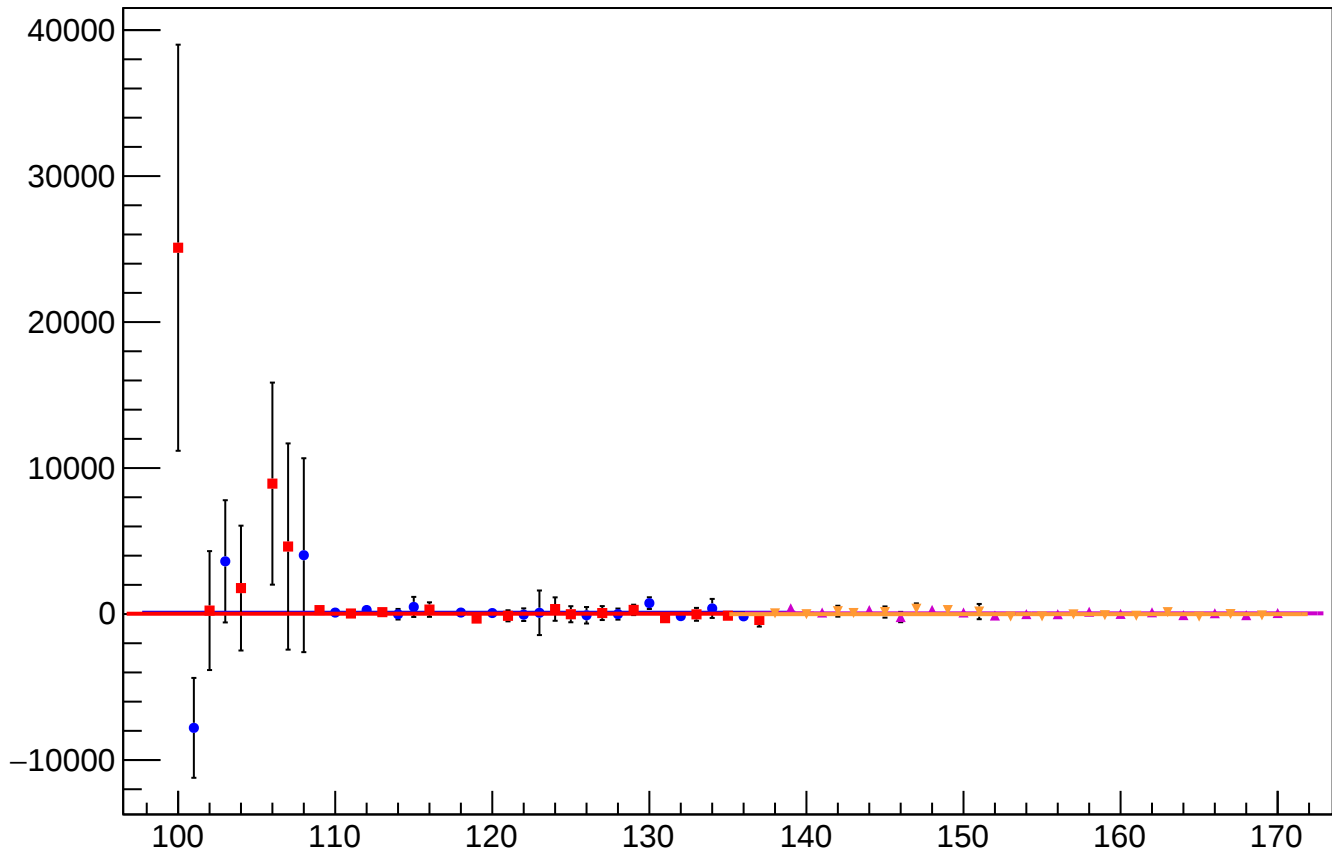
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.260 $\pm$ 0.004 χ^2 /NDF:37943.0/32

Out: 25.407 $\pm$ 0.004 χ^2 /NDF:34808.7/35

All: 25.334 $\pm$ 0.003 χ^2 /NDF: 73411.2/68

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: 48.217+/-54.907 χ^2/NDF : 5.3/15

Left: 24.658+/-41.739 χ^2/NDF : 10.5/32

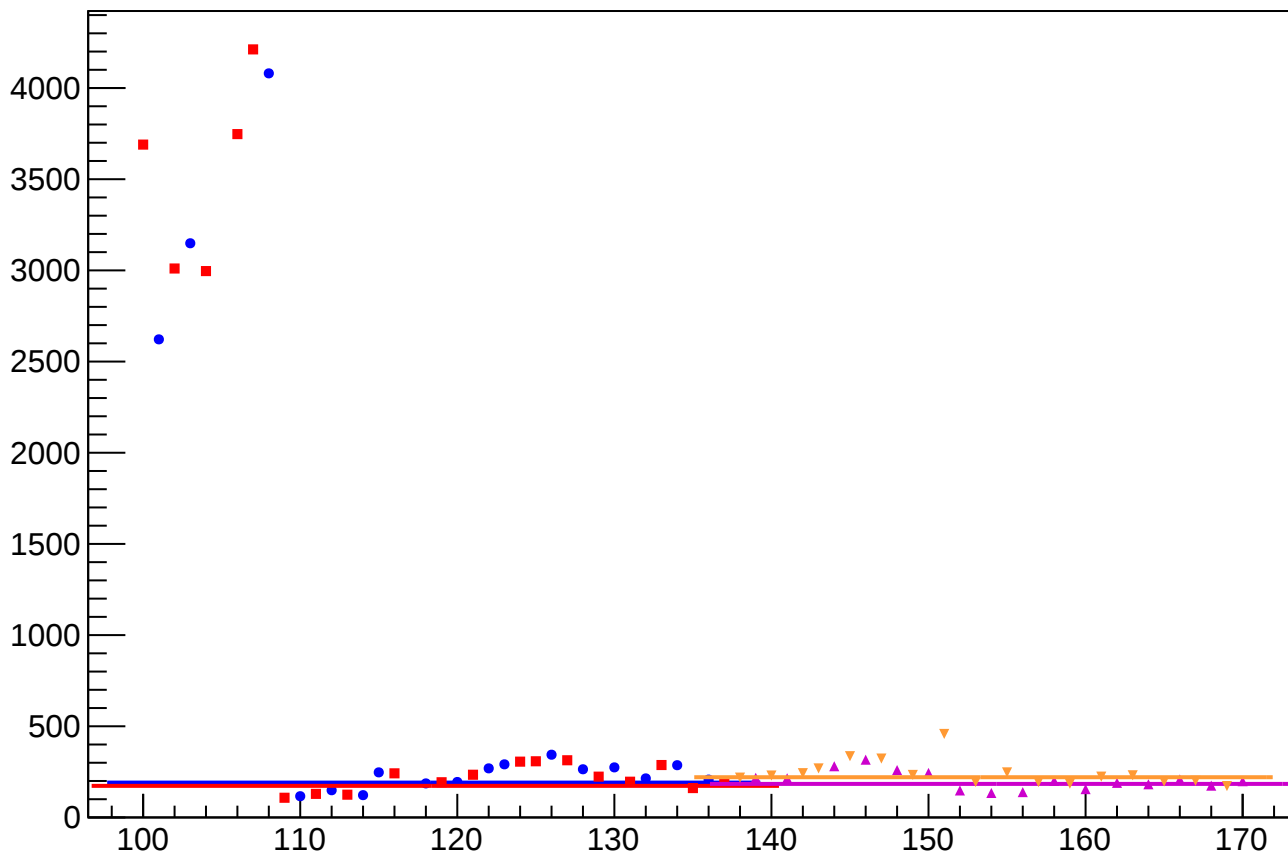
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 59.889+/-46.528 χ^2/NDF : 17.7/32

Out: 4.089+/-50.309 χ^2/NDF : 16.8/35

All: 34.164+/-34.159 χ^2/NDF : 35.2/68

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: 183.988+/-0.039 χ^2/NDF : 1309747.3/15

Left: 199.463+/-0.030 χ^2/NDF : 2780865.1/32

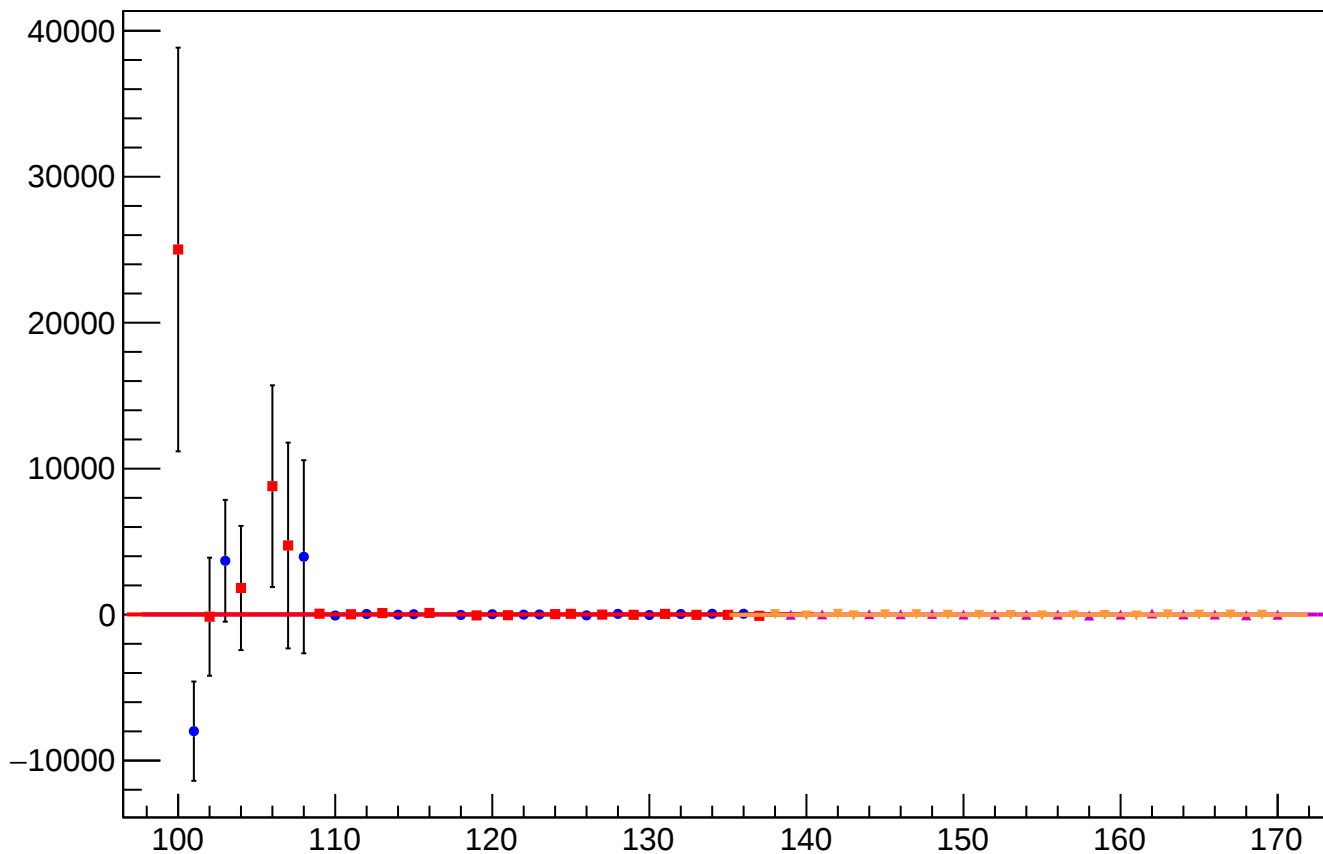
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 186.018+/-0.033 χ^2/NDF : 4891196.3/32

Out: 202.326+/-0.036 χ^2/NDF : 5722620.7/35

All: 193.536+/-0.024 χ^2/NDF : 10727080.6/68

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: 7.615+/-8.196 χ^2/NDF :17.5/15

Left: -5.155+/-5.780 χ^2/NDF : 38.4/32

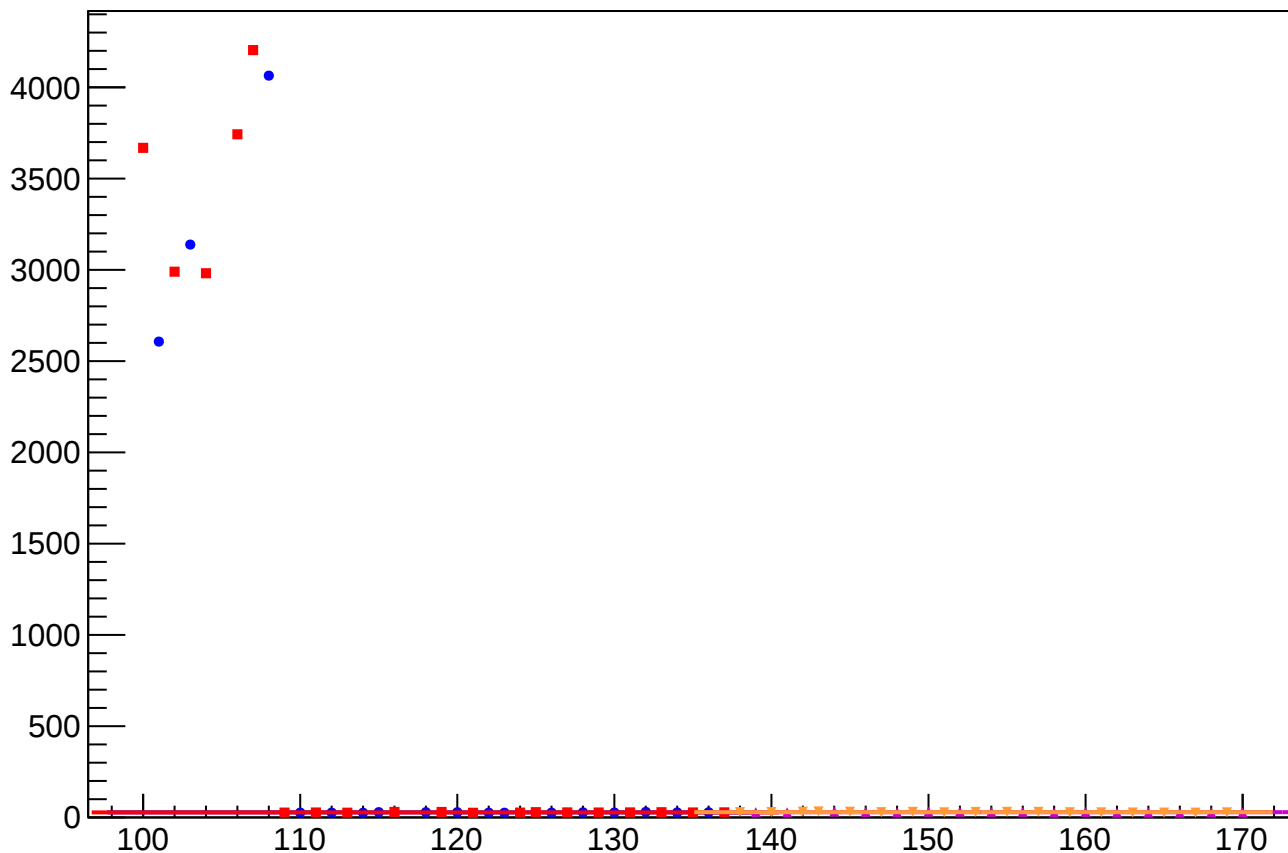
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 8.482+/-6.801 χ^2/NDF :35.8/32

Out: -8.331+/-6.783 χ^2/NDF :44.9/35

All: 0.053+/-4.803 χ^2/NDF : 83.7/68

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837+/-0.009 χ^2/NDF : 3026887.2/16

Left Out: 28.952+/-0.006 χ^2/NDF : 94302.8/16

Right Out: 27.694+/-0.009 χ^2/NDF : 3476801.0/18

Left In: 28.842+/-0.006 χ^2/NDF : 110751.1/15

Left: 28.897+/-0.004 χ^2/NDF : 205233.6/32

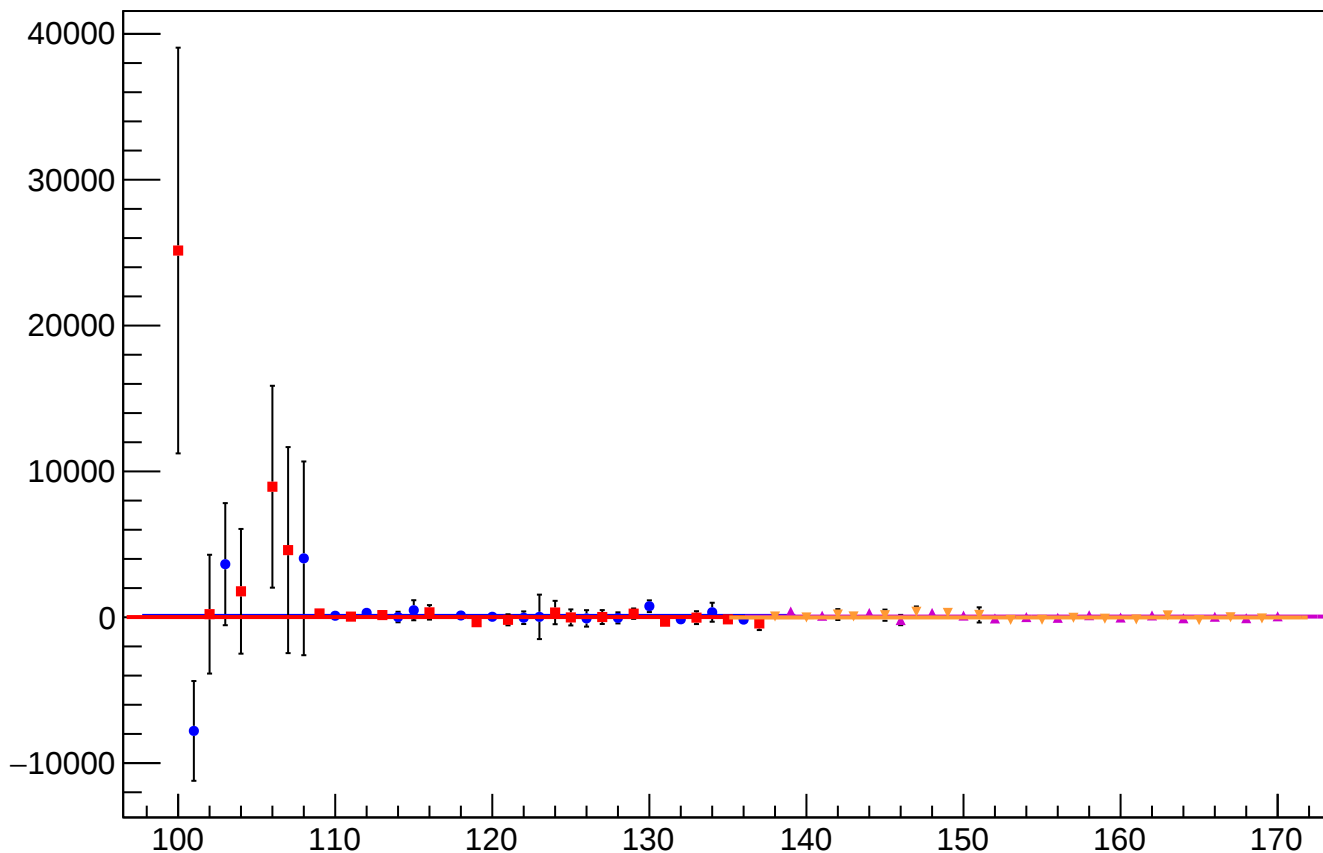
Right: 27.765+/-0.006 χ^2/NDF : 6503824.5/35

In: 28.529+/-0.005 χ^2/NDF : 3147011.1/32

Out: 28.565+/-0.005 χ^2/NDF : 3585751.8/35

All: 28.547+/-0.003 χ^2/NDF : 6732790.2/68

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840 $\pm$ 87.359 χ^2 /NDF: 12.6/16

Left Out: -13.375 $\pm$ 64.102 χ^2 /NDF: 5.5/16

Right Out: 12.772 $\pm$ 80.640 χ^2 /NDF: 12.7/18

Left In: 46.472 $\pm$ 54.800 χ^2 /NDF: 5.4/15

Left: 21.202 $\pm$ 41.654 χ^2 /NDF: 11.3/32

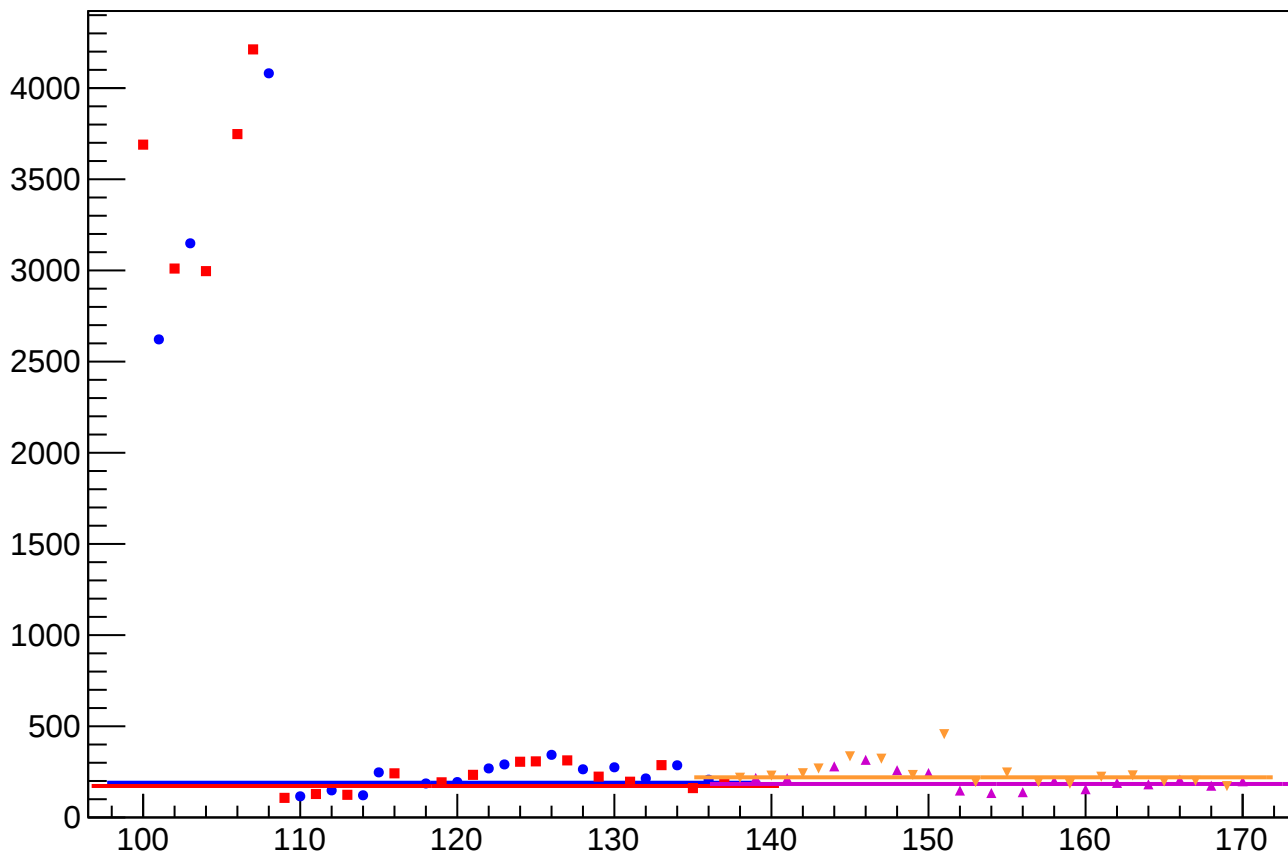
Right: 49.609 $\pm$ 59.254 χ^2 /NDF: 25.7/35

In: 59.565 $\pm$ 46.422 χ^2 /NDF: 18.2/32

Out: -3.251 $\pm$ 50.180 χ^2 /NDF: 18.2/35

All: 30.597 $\pm$ 34.077 χ^2 /NDF: 37.2/68

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: 183.632+/-0.039 χ^2/NDF : 1309500.8/15

Left: 199.061+/-0.029 χ^2/NDF : 2779422.5/32

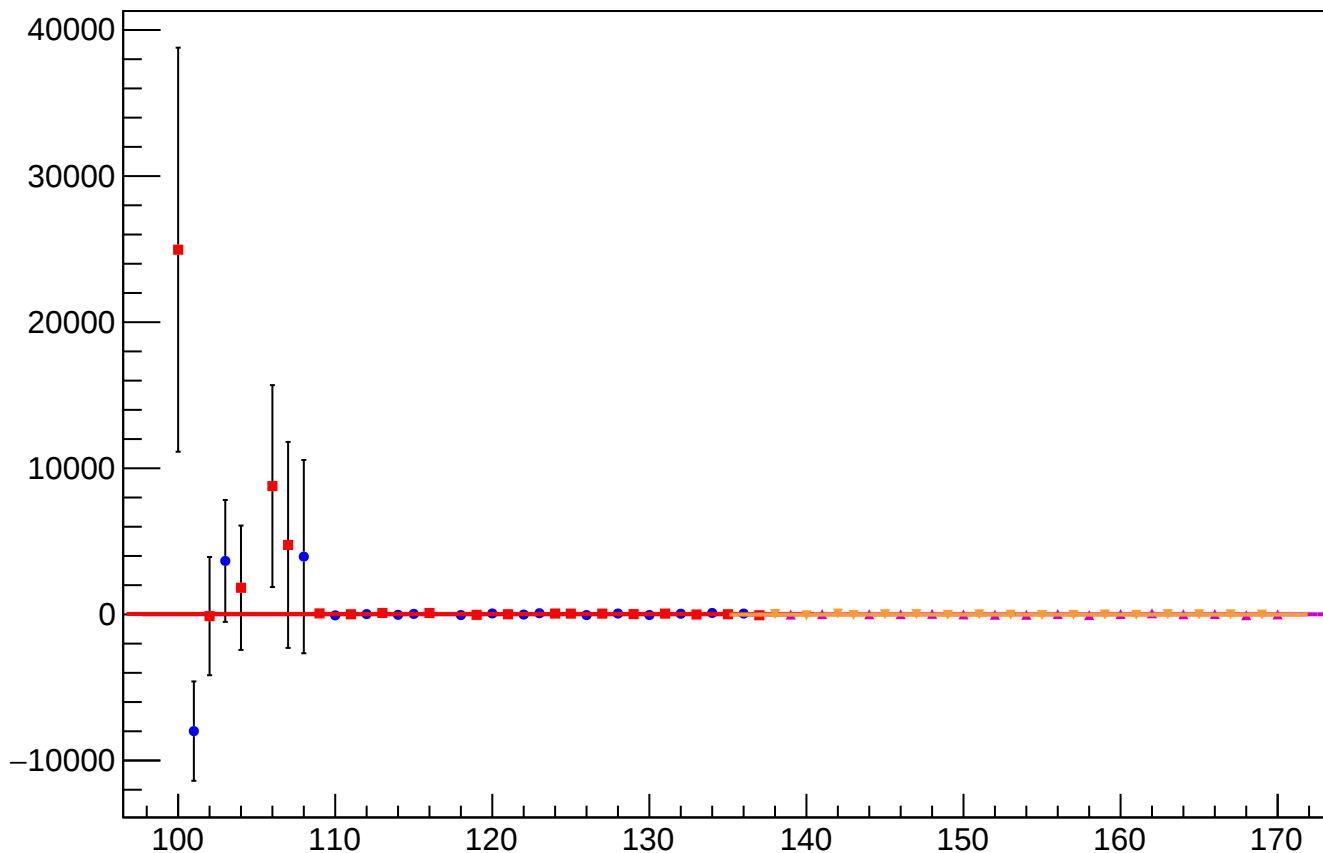
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 185.567+/-0.033 χ^2/NDF : 4901907.4/32

Out: 201.753+/-0.035 χ^2/NDF : 5739331.9/35

All: 193.031+/-0.024 χ^2/NDF : 10753359.7/68

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: 6.635+/-8.244 χ^2/NDF :17.4/15

Left: -3.563+/-5.818 χ^2/NDF : 31.1/32

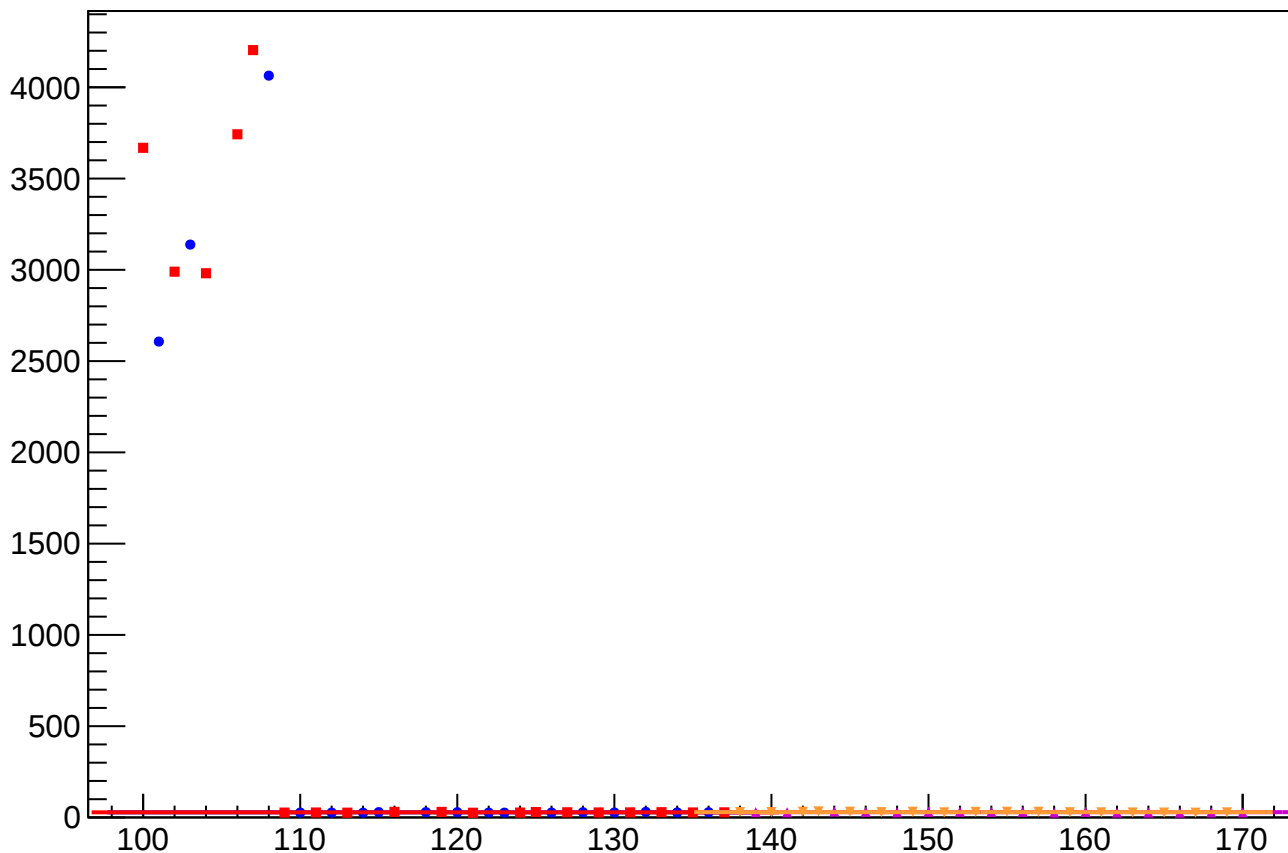
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 7.557+/-6.844 χ^2/NDF :40.7/32

Out: -0.370+/-6.834 χ^2/NDF :35.6/35

All: 3.588+/-4.836 χ^2/NDF : 77.0/68

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: 29.016+/-0.006 χ^2/NDF :111763.2/15

Left: 29.085+/-0.004 χ^2/NDF : 211546.4/32

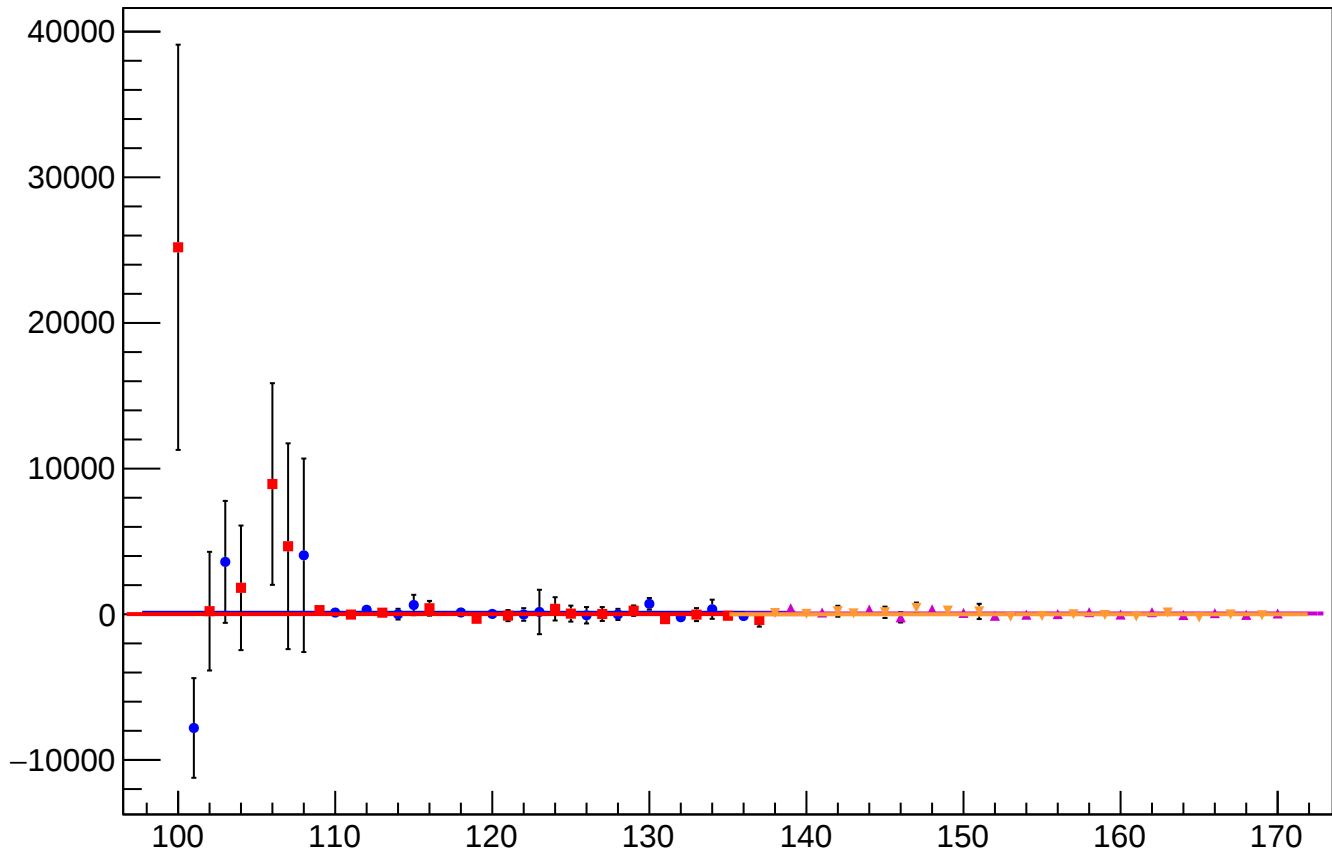
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.707+/-0.005 χ^2/NDF :3147782.0/32

Out: 28.774+/-0.005 χ^2/NDF :3593069.0/35

All: 28.741+/-0.003 χ^2/NDF : 6740948.0/68

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: 54.385 $\pm$ 55.573 χ^2 /NDF:6.0/15

Left: 31.611 $\pm$ 42.198 χ^2 /NDF: 11.5/32

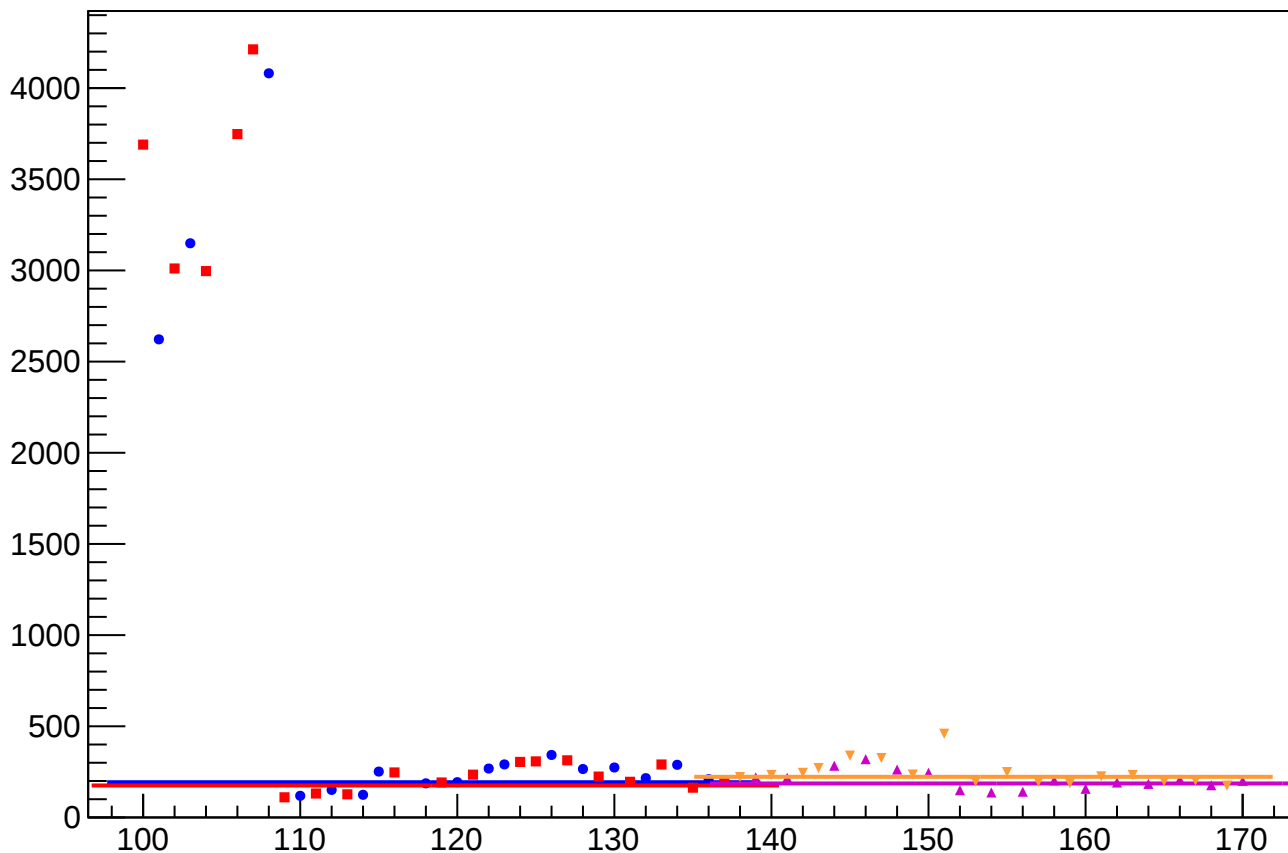
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 67.809 $\pm$ 47.047 χ^2 /NDF:18.6/32

Out: 4.706 $\pm$ 50.801 χ^2 /NDF:17.4/35

All: 38.675 $\pm$ 34.518 χ^2 /NDF: 36.8/68

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: 186.402+/-0.039 χ^2/NDF :1280268.4/15

Left: 201.835+/-0.030 χ^2/NDF : 2727553.1/32

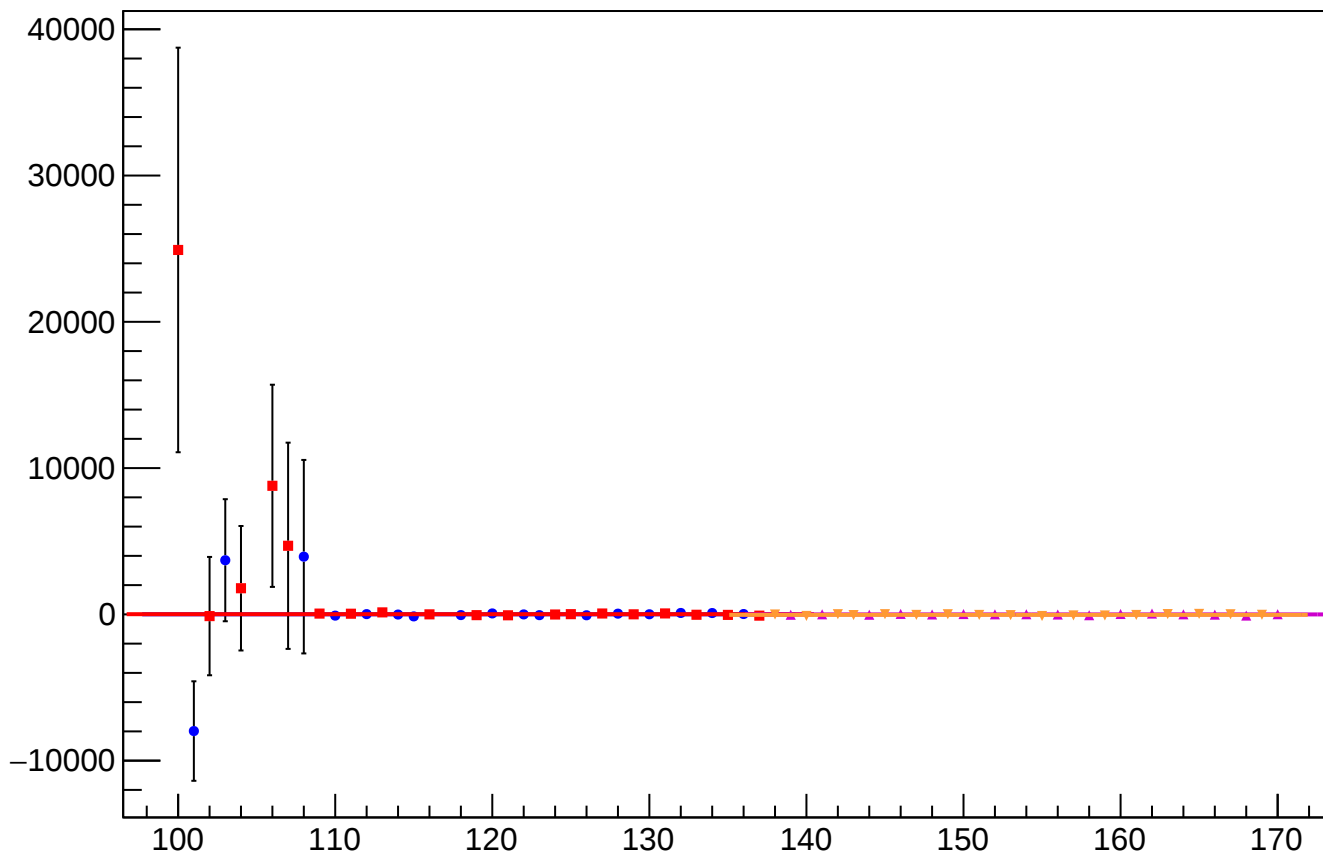
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.325+/-0.033 χ^2/NDF :4824845.4/32

Out: 204.551+/-0.036 χ^2/NDF :5660610.5/35

All: 195.817+/-0.024 χ^2/NDF : 10595293.2/68

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: -2.732+/-9.833 χ^2/NDF :12.0/15

Left: -17.623+/-6.927 χ^2/NDF : 34.9/32

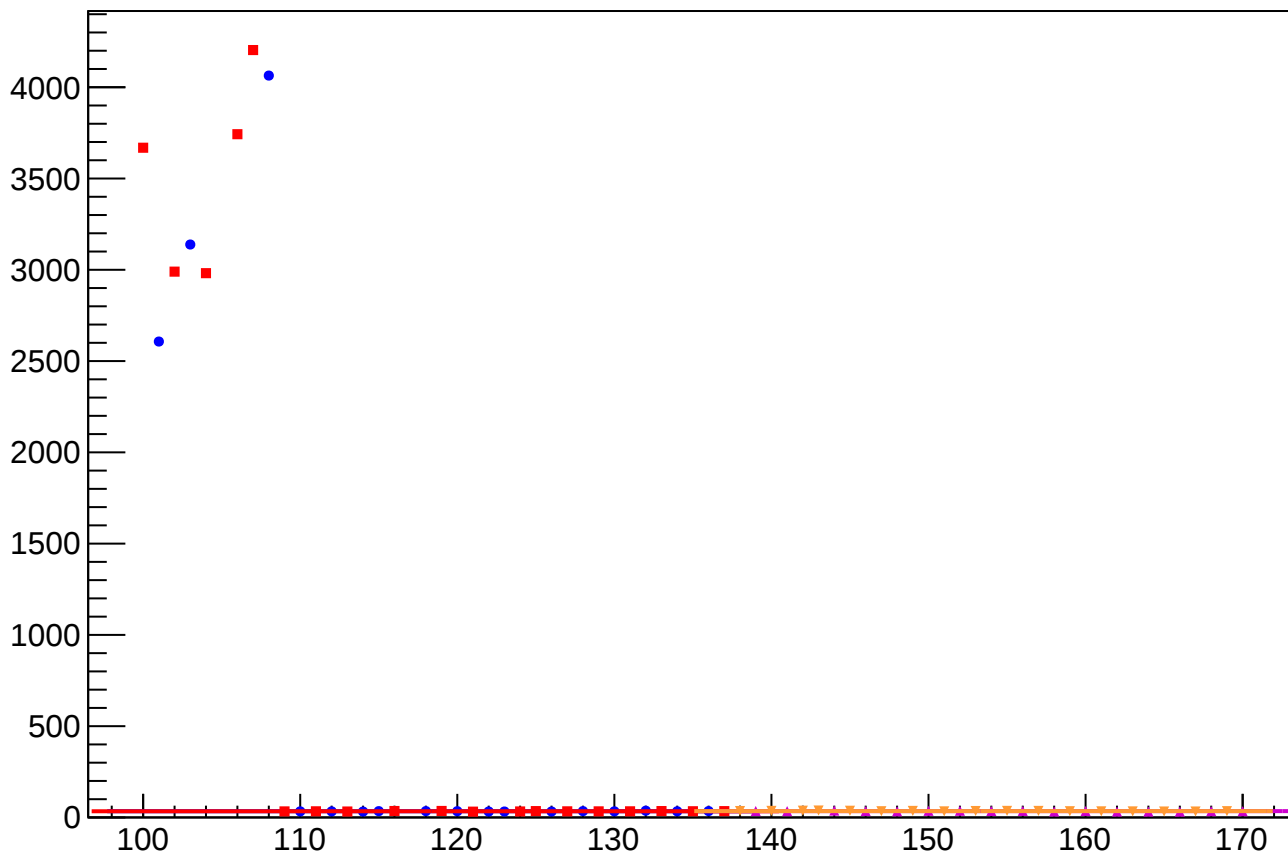
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -0.500+/-8.213 χ^2/NDF :32.5/32

Out: -18.908+/-8.172 χ^2/NDF :46.3/35

All: -9.750+/-5.793 χ^2/NDF : 81.4/68

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: 34.673 $\pm$ 0.007 χ^2 /NDF:51524.7/15

Left: 34.692 $\pm$ 0.005 χ^2 /NDF: 98318.3/32

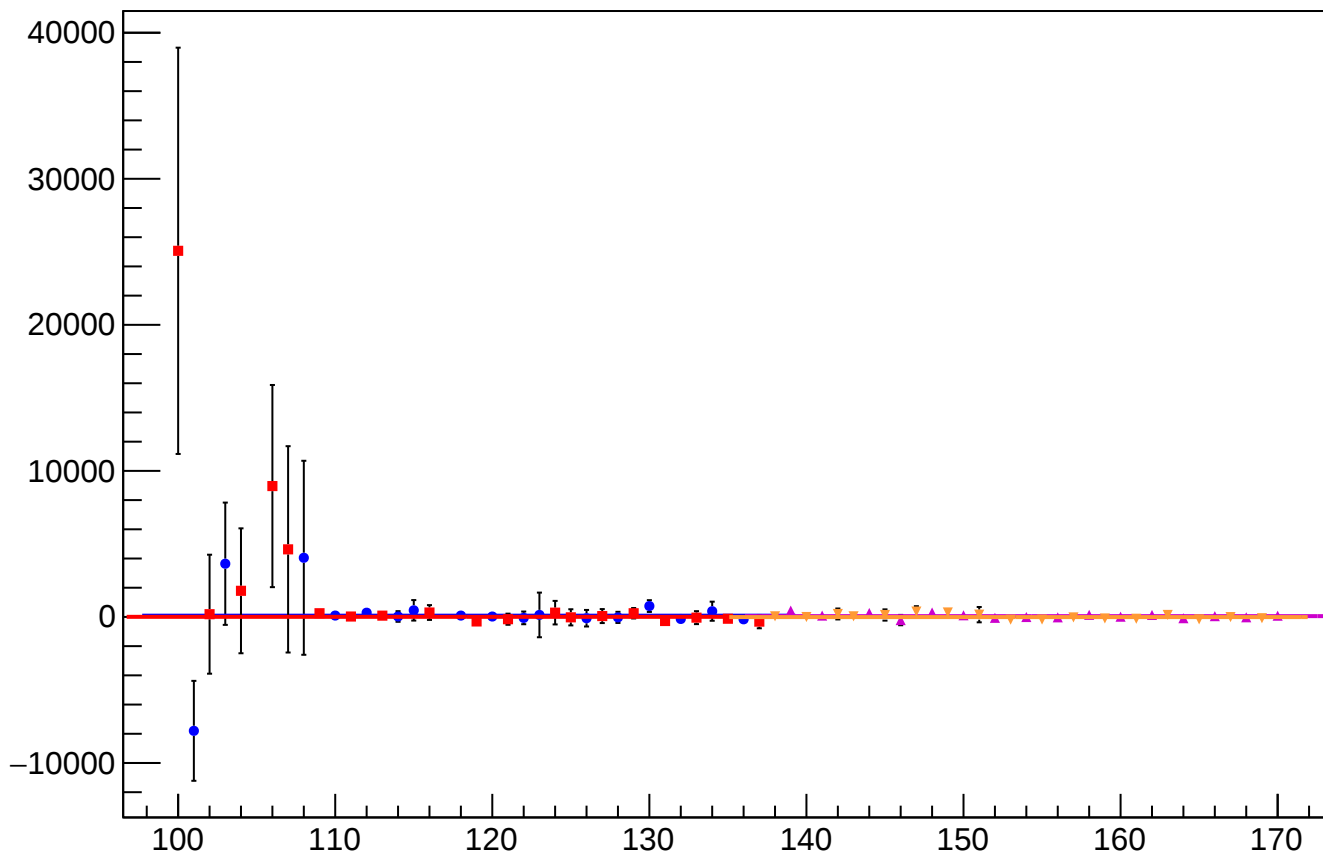
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.511 $\pm$ 0.006 χ^2 /NDF:3059568.6/32

Out: 34.472 $\pm$ 0.006 χ^2 /NDF:3502666.3/35

All: 34.492 $\pm$ 0.004 χ^2 /NDF: 6562257.5/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -10.506+/-64.721 χ^2/NDF : 5.3/16

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 54.724+/-55.427 χ^2/NDF : 5.4/15

Left: 27.125+/-42.099 χ^2/NDF : 11.3/32

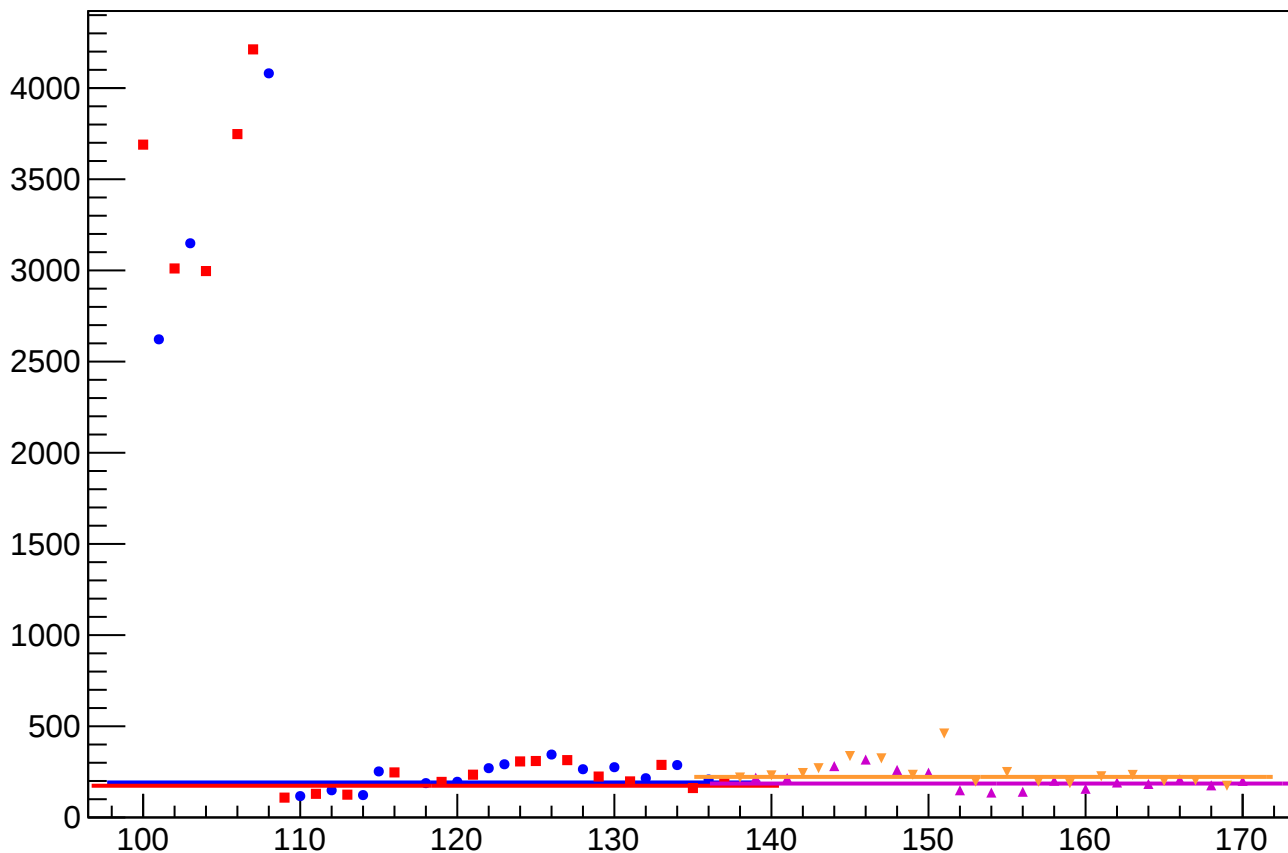
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 63.626+/-46.891 χ^2/NDF : 17.9/32

Out: -3.591+/-50.613 χ^2/NDF : 16.4/35

All: 32.580+/-34.398 χ^2/NDF : 35.2/68

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: 185.920+/-0.039 χ^2/NDF :1268373.9/15

Left: 201.366+/-0.030 χ^2/NDF : 2709293.0/32

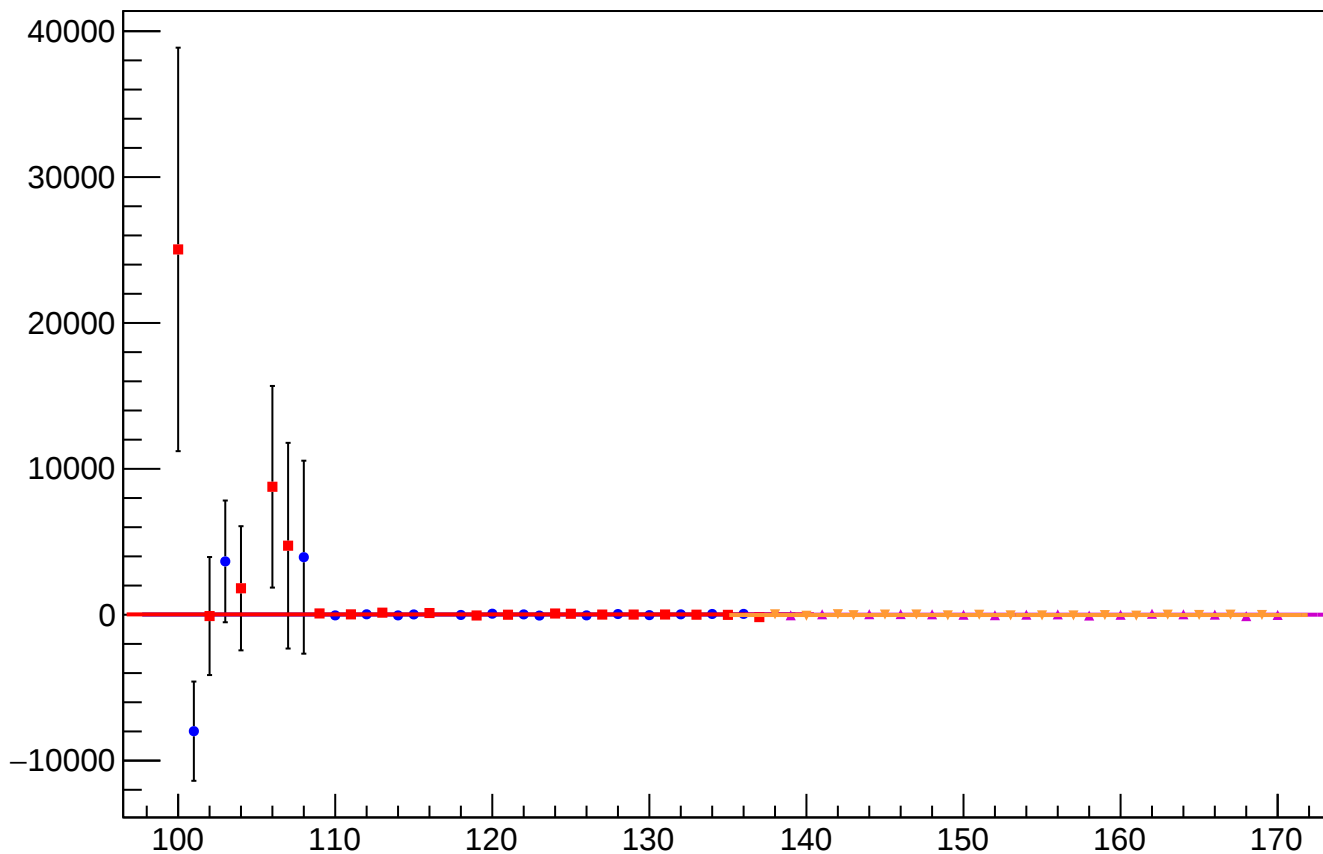
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.614+/-0.033 χ^2/NDF :4848008.2/32

Out: 203.587+/-0.036 χ^2/NDF :5721454.0/35

All: 194.992+/-0.024 χ^2/NDF : 10676651.7/68

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: 2.647+/-8.896 χ^2/NDF : 21.9/15

Left: -8.852+/-6.275 χ^2/NDF : 36.9/32

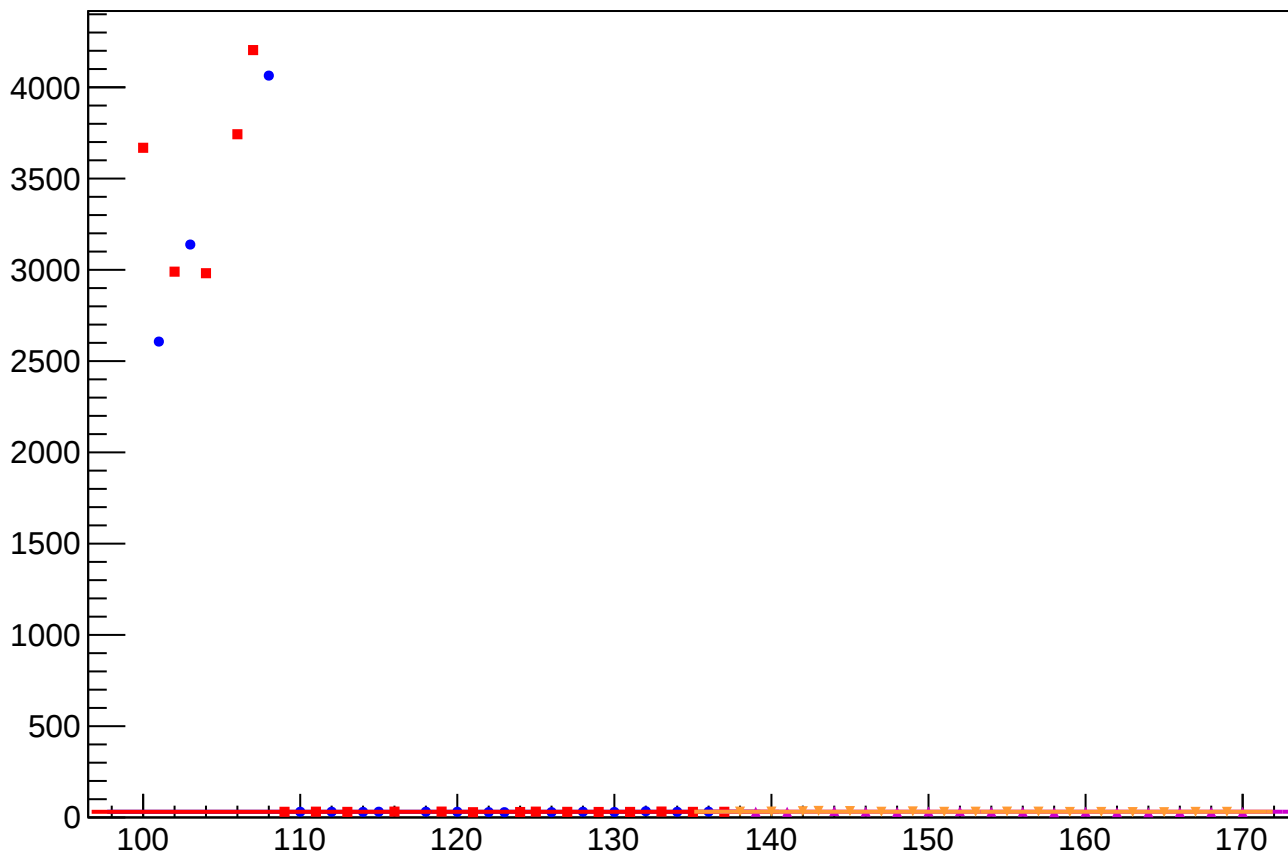
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 6.079+/-7.448 χ^2/NDF : 37.6/32

Out: -7.333+/-7.428 χ^2/NDF : 46.3/35

All: -0.645+/-5.259 χ^2/NDF : 85.5/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127+/-0.010 χ^2/NDF : 3014425.9/16

Left Out: 31.453+/-0.006 χ^2/NDF : 72802.0/16

Right Out: 30.963+/-0.010 χ^2/NDF : 3458945.1/18

Left In: 31.326+/-0.006 χ^2/NDF : 80927.1/15

Left: 31.390+/-0.004 χ^2/NDF : 153933.3/32

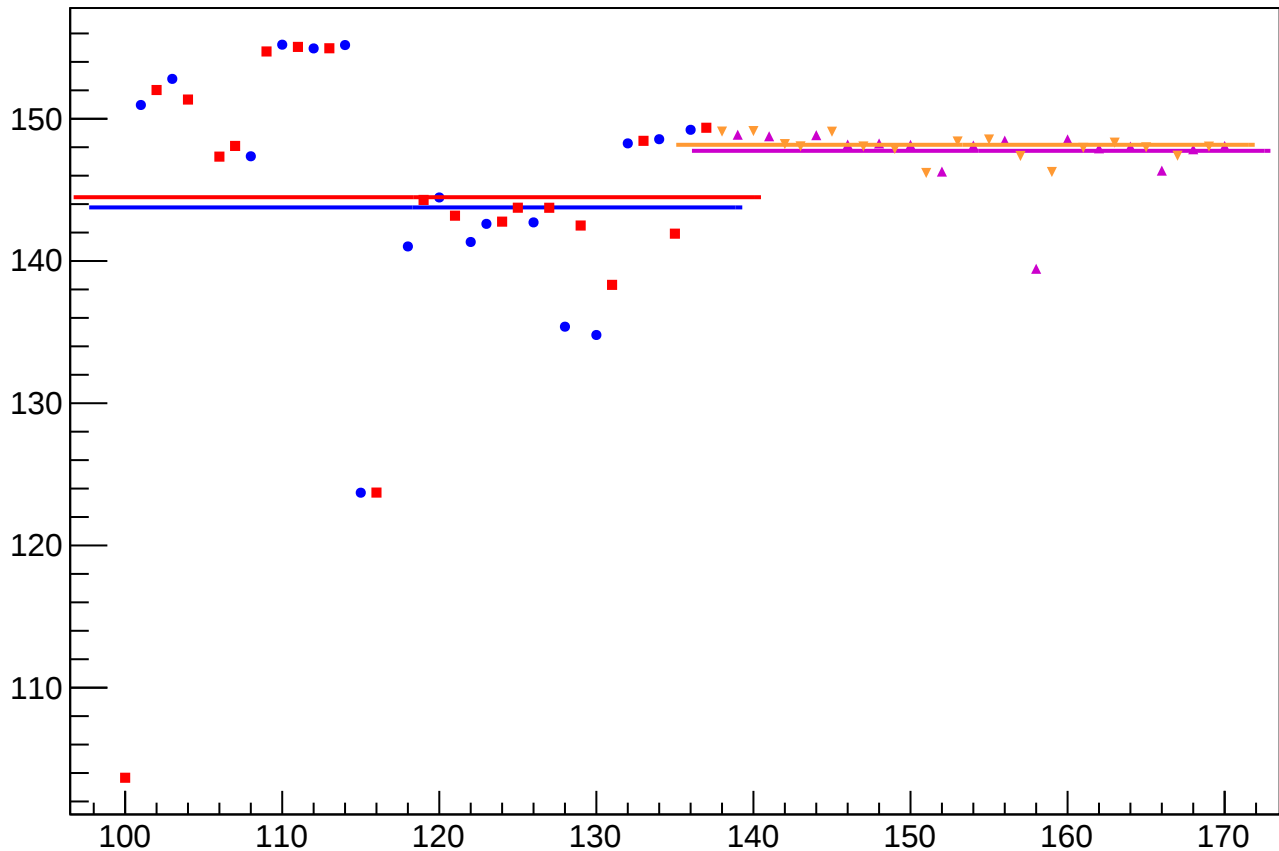
Right: 31.045+/-0.007 χ^2/NDF : 6473514.9/35

In: 31.266+/-0.005 χ^2/NDF : 3095652.8/32

Out: 31.308+/-0.005 χ^2/NDF : 3533556.9/35

All: 31.287+/-0.004 χ^2/NDF : 6629240.9/68

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.171 $\pm$ 0.000 χ^2 /NDF: 52502830.6/16

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.747 $\pm$ 0.000 χ^2 /NDF: 324424289.3/15

Left: 147.965 $\pm$ 0.000 χ^2 /NDF: 383404451.1/32

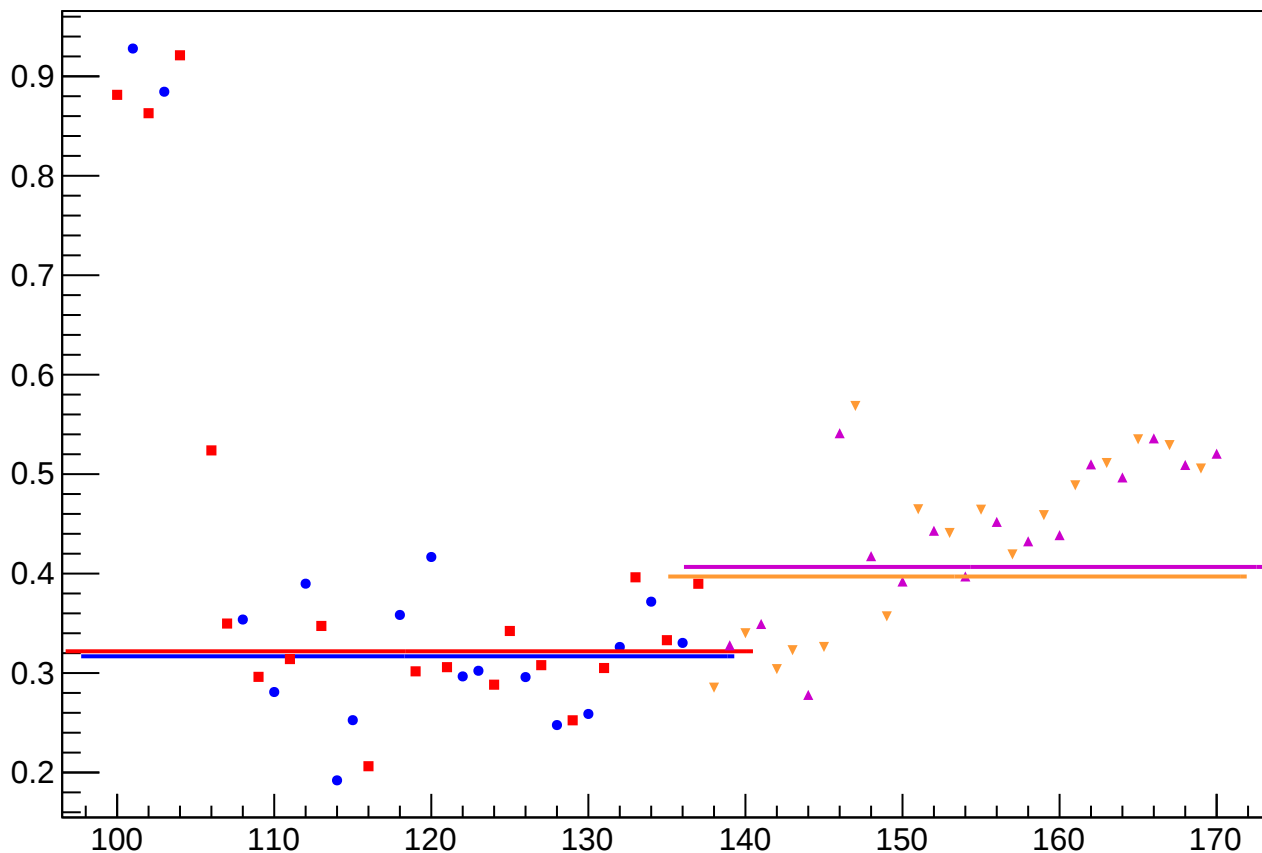
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 145.986 $\pm$ 0.000 χ^2 /NDF: 4347620578.8/32

Out: 146.573 $\pm$ 0.000 χ^2 /NDF: 4671369799.1/35

All: 146.285 $\pm$ 0.000 χ^2 /NDF: 9041059906.7

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1278613.2/16

Left Out: 0.397+/-0.000 χ^2/NDF :1111355.6/16

Right Out: 0.322+/-0.000 χ^2/NDF : 1217762.5/18

Left In: 0.407+/-0.000 χ^2/NDF :919258.7/15

Left: 0.402+/-0.000 χ^2/NDF : 2037300.5/32

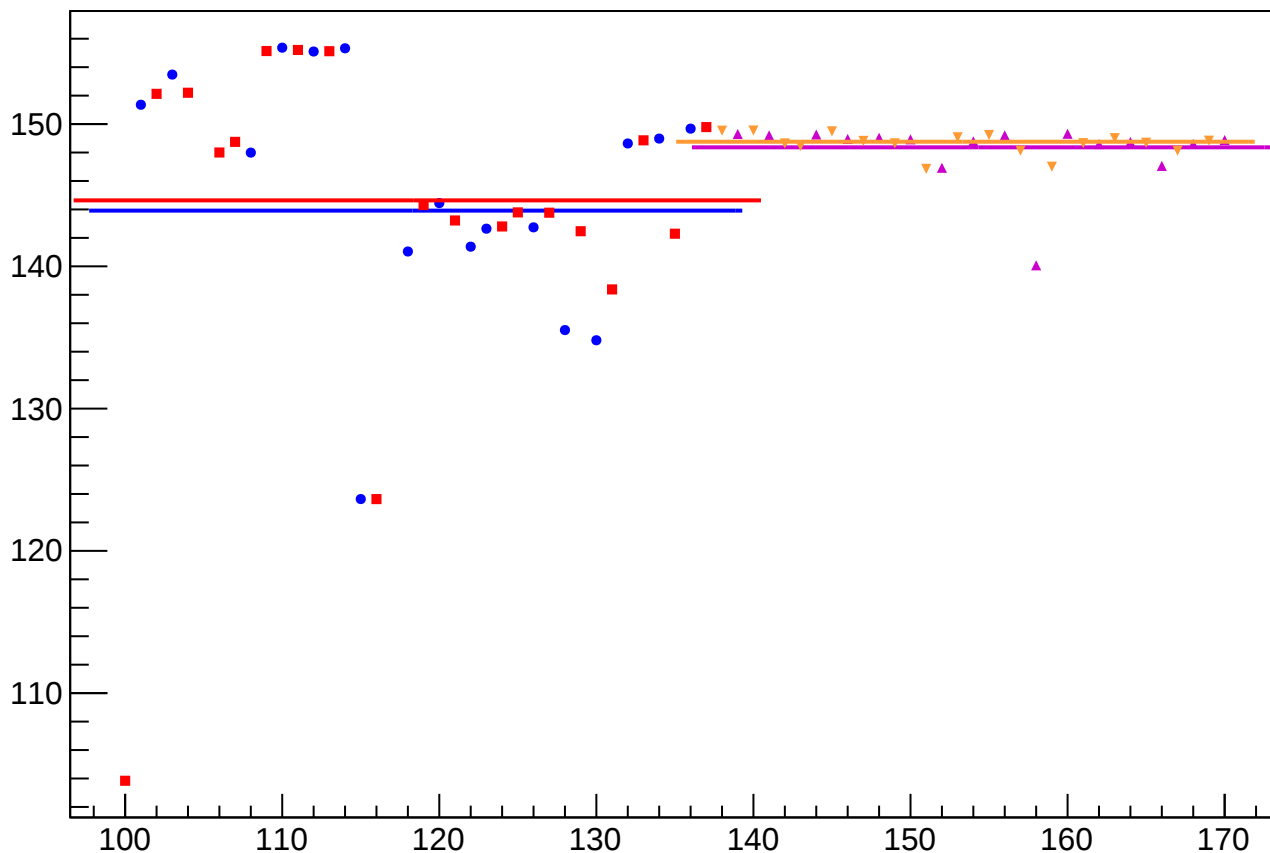
Right: 0.319+/-0.000 χ^2/NDF : 2497805.1/35

In: 0.367+/-0.000 χ^2/NDF :2698986.5/32

Out: 0.364+/-0.000 χ^2/NDF :2691377.8/35

All: 0.366+/-0.000 χ^2/NDF : 5391142.9/68

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000

χ^2 /NDF: 3584662767.5/16

Left: 148.567 $\pm$ 0.000

χ^2 /NDF: 360397463.2/32

Left Out: 148.759 $\pm$ 0.000

χ^2 /NDF: 40963361.5/16

Right: 144.280 $\pm$ 0.000

χ^2 /NDF: 7809567994.8/35

Right Out: 144.637 $\pm$ 0.000

χ^2 /NDF: 4210524953.9/18

In: 146.385 $\pm$ 0.000

χ^2 /NDF: 4503001445.5/32

Out: 146.962 $\pm$ 0.000

χ^2 /NDF: 4787677844.7/35

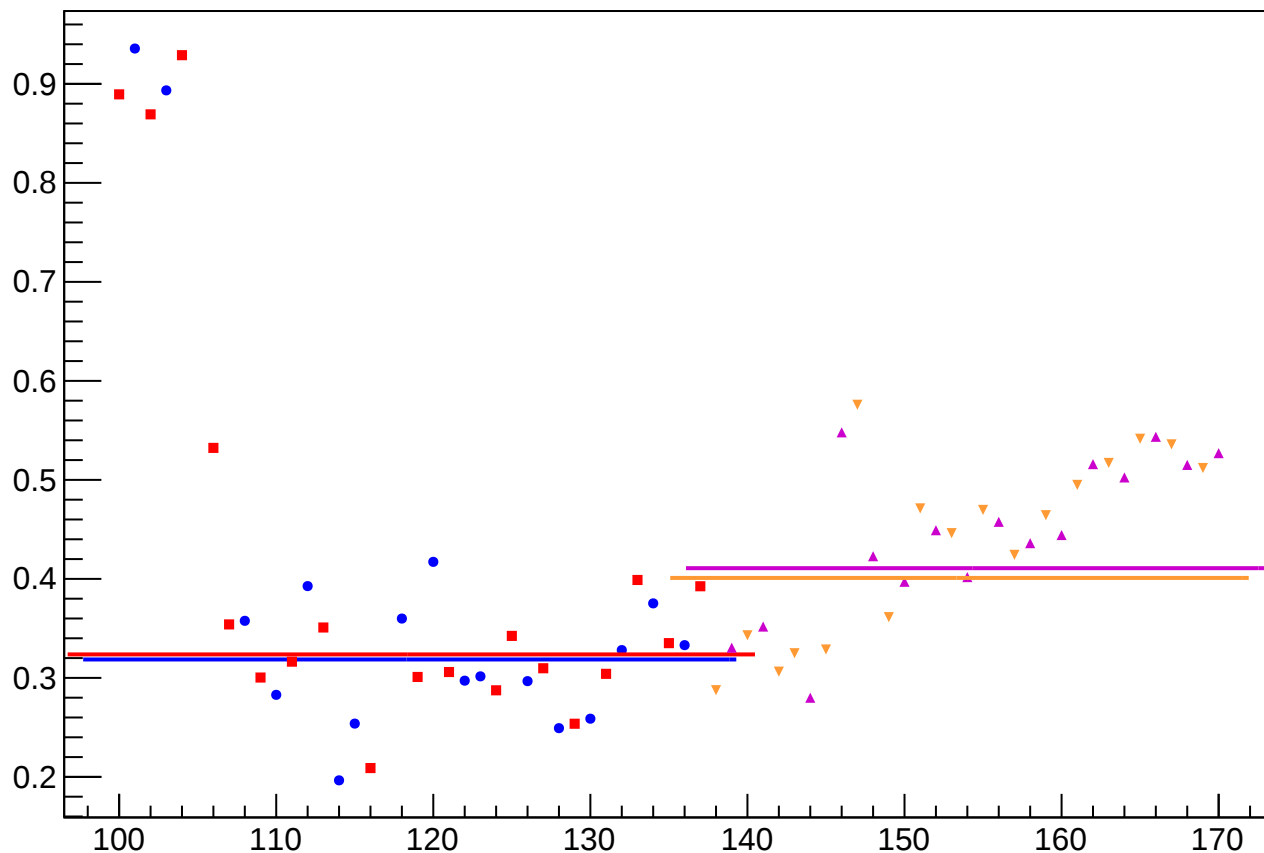
Left In: 148.365 $\pm$ 0.000

χ^2 /NDF: 313966421.2/15

All: 146.679 $\pm$ 0.000

χ^2 /NDF: 9311642225.6

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.401 $\pm$ 0.000 χ^2/NDF : 1131905.0/16

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1220898.3/18

Left In: 0.411 $\pm$ 0.000 χ^2/NDF : 937684.8/15

Left: 0.406 $\pm$ 0.000 χ^2/NDF : 2076433.1/32

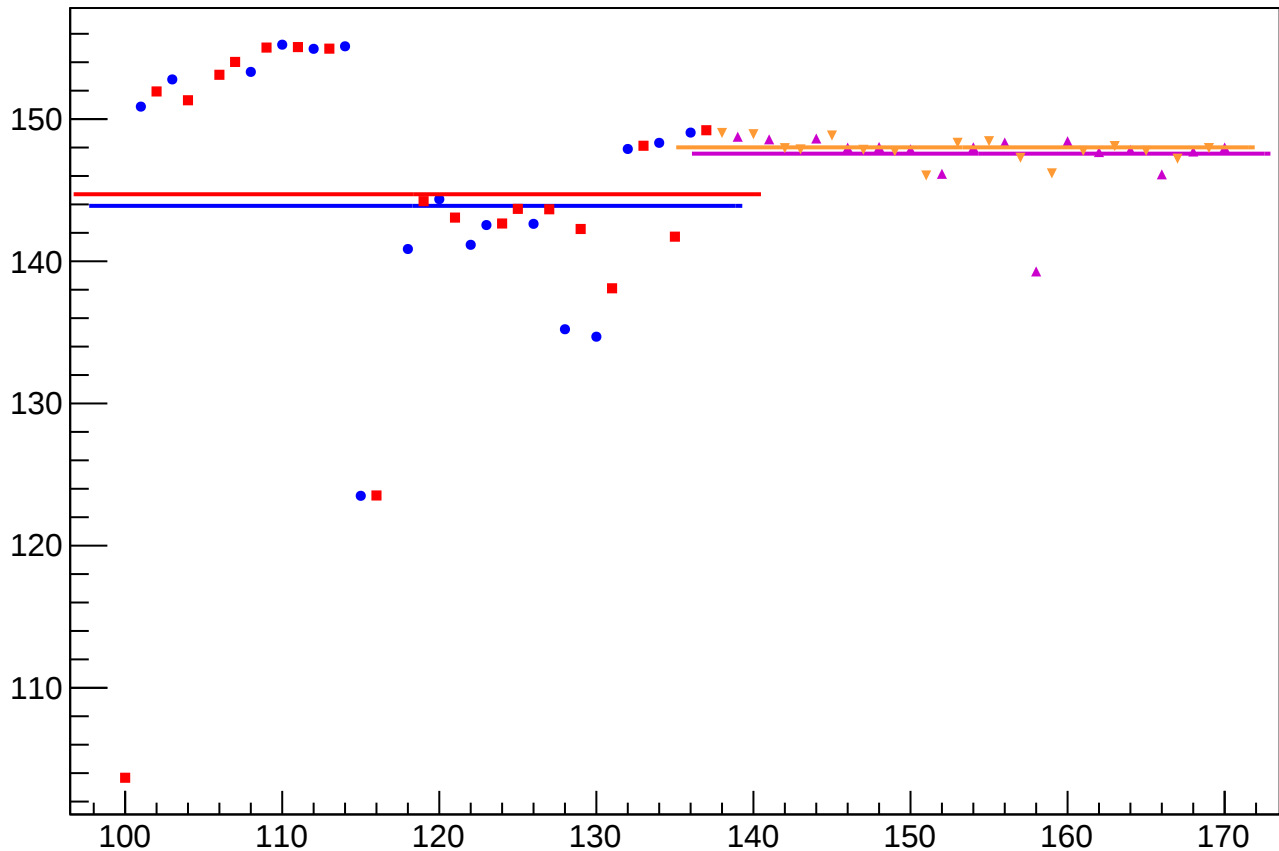
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2503090.8/35

In: 0.370 $\pm$ 0.000 χ^2/NDF : 2737902.8/32

Out: 0.367 $\pm$ 0.000 χ^2/NDF : 2729492.5/35

All: 0.369 $\pm$ 0.000 χ^2/NDF : 5468175.3/68

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: 147.570 $\pm$ 0.000 χ^2 /NDF: 323517529.7/15

Left: 147.797 $\pm$ 0.000 χ^2 /NDF: 381472630.6/32

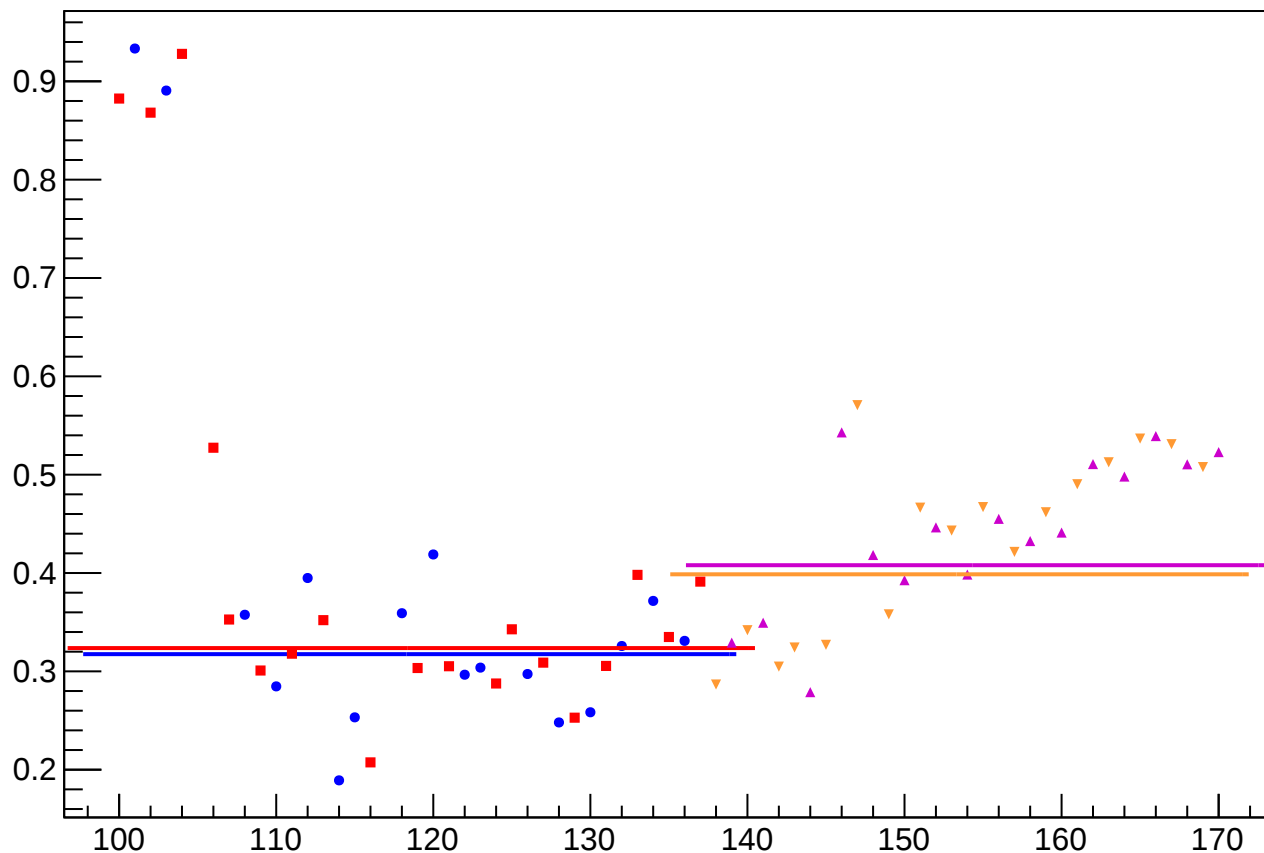
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.944 $\pm$ 0.000 χ^2 /NDF: 4488880101.3/32

Out: 146.585 $\pm$ 0.000 χ^2 /NDF: 4870480611.5/35

All: 146.270 $\pm$ 0.000 χ^2 /NDF: 9385436038.3

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.399 $\pm$ 0.000 χ^2/NDF : 1112279.6/16

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1221676.7/18

Left In: 0.408 $\pm$ 0.000 χ^2/NDF : 924378.2/15

Left: 0.403 $\pm$ 0.000 χ^2/NDF : 2042772.9/32

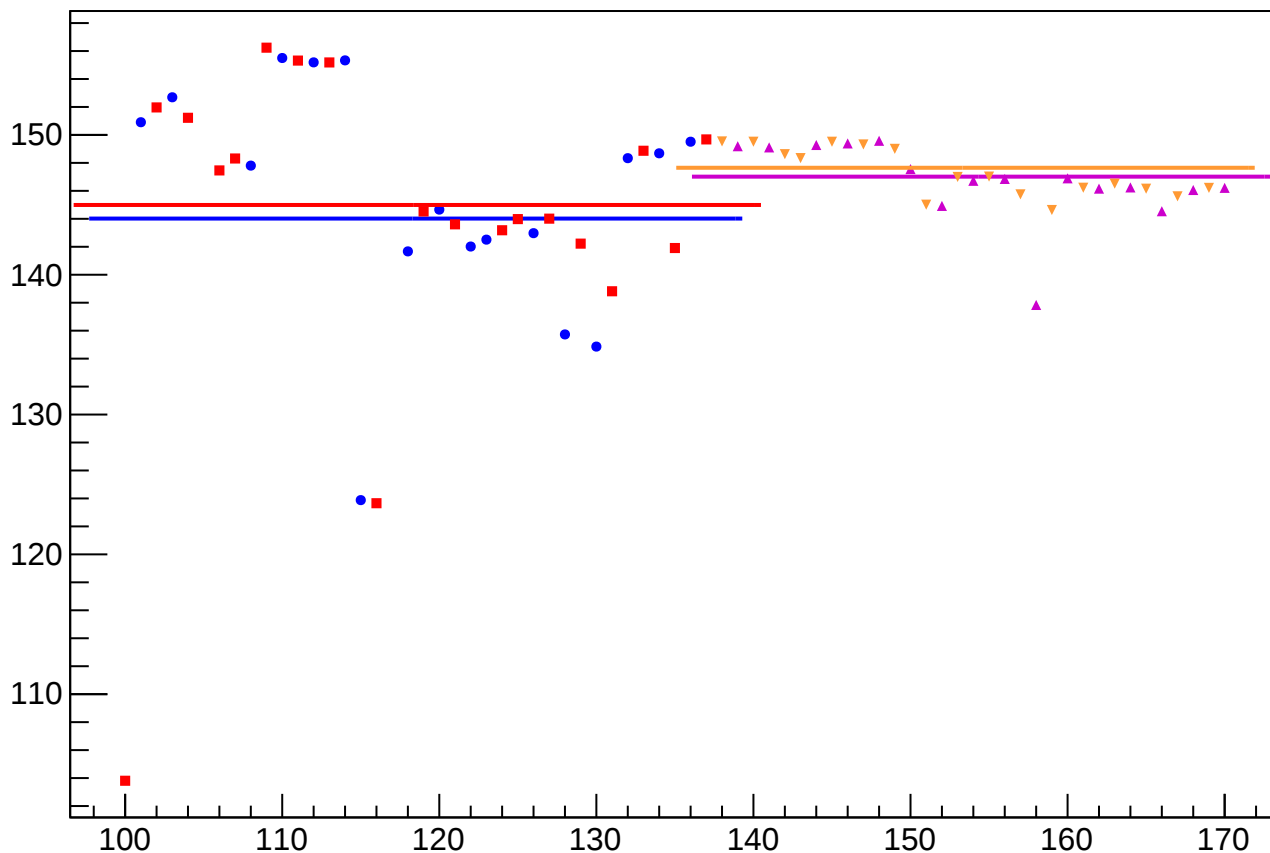
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2516974.9/35

In: 0.368 $\pm$ 0.000 χ^2/NDF : 2721986.4/32

Out: 0.366 $\pm$ 0.000 χ^2/NDF : 2691084.8/35

All: 0.367 $\pm$ 0.000 χ^2/NDF : 5413436.7/68

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 ± 0.000 $\chi^2/\text{NDF}: 3238525527.6/16$

Left Out: 147.651 ± 0.000 $\chi^2/\text{NDF}: 195874014.7/16$

Right Out: 144.990 ± 0.000 $\chi^2/\text{NDF}: 3853449012.9/18$

Left In: 147.016 ± 0.000 $\chi^2/\text{NDF}: 502724522.9/15$

Left: 147.341 ± 0.000 $\chi^2/\text{NDF}: 712032952.8/32$

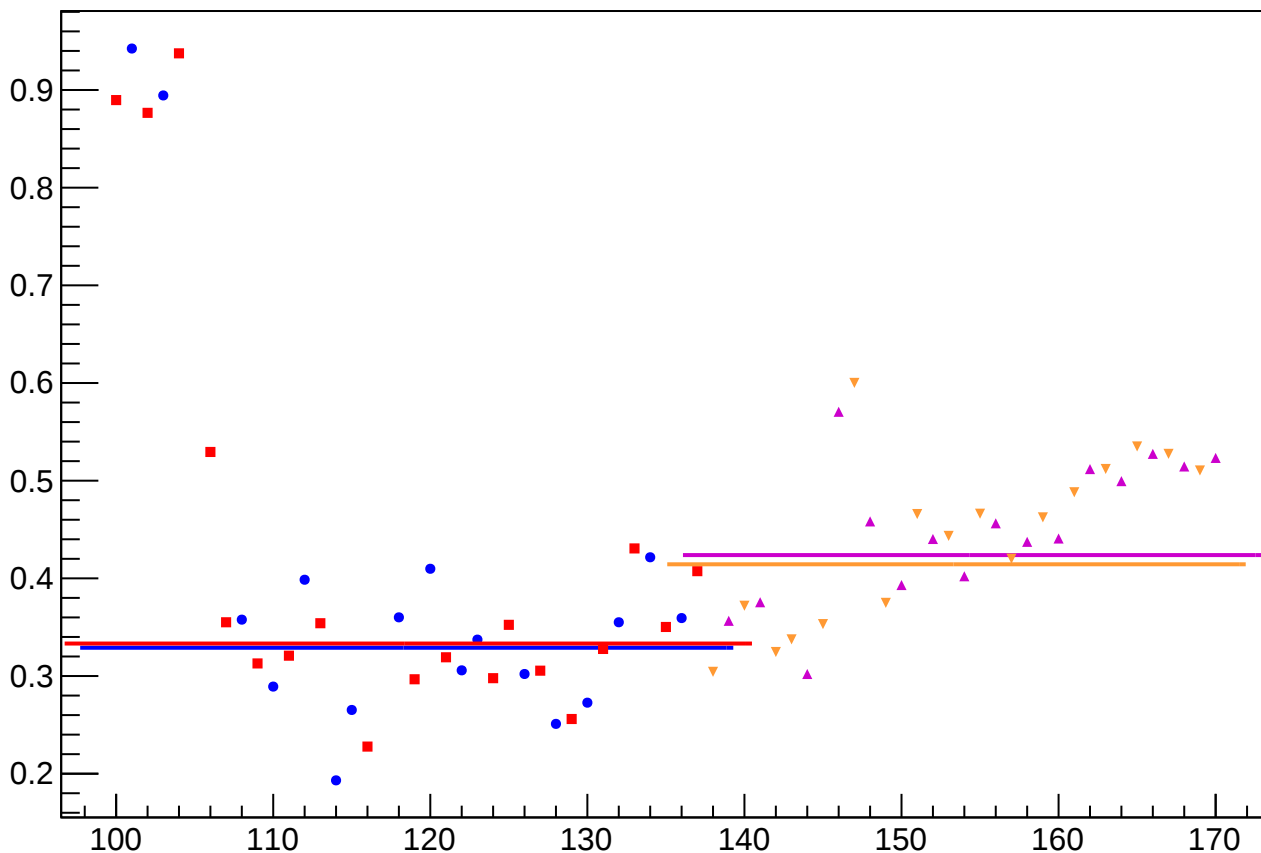
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7116582298.0/35$

In: 145.693 ± 0.000 $\chi^2/\text{NDF}: 3999296658.9/32$

Out: 146.492 ± 0.000 $\chi^2/\text{NDF}: 4259934817.1/35$

All: 146.100 ± 0.000 $\chi^2/\text{NDF}: 8297106675.8$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.414 $\pm$ 0.000 χ^2/NDF : 865348.5/16

Right Out: 0.333 $\pm$ 0.000 χ^2/NDF : 1182496.7/18

Left In: 0.424 $\pm$ 0.000 χ^2/NDF : 700011.0/15

Left: 0.419 $\pm$ 0.000 χ^2/NDF : 1571292.2/32

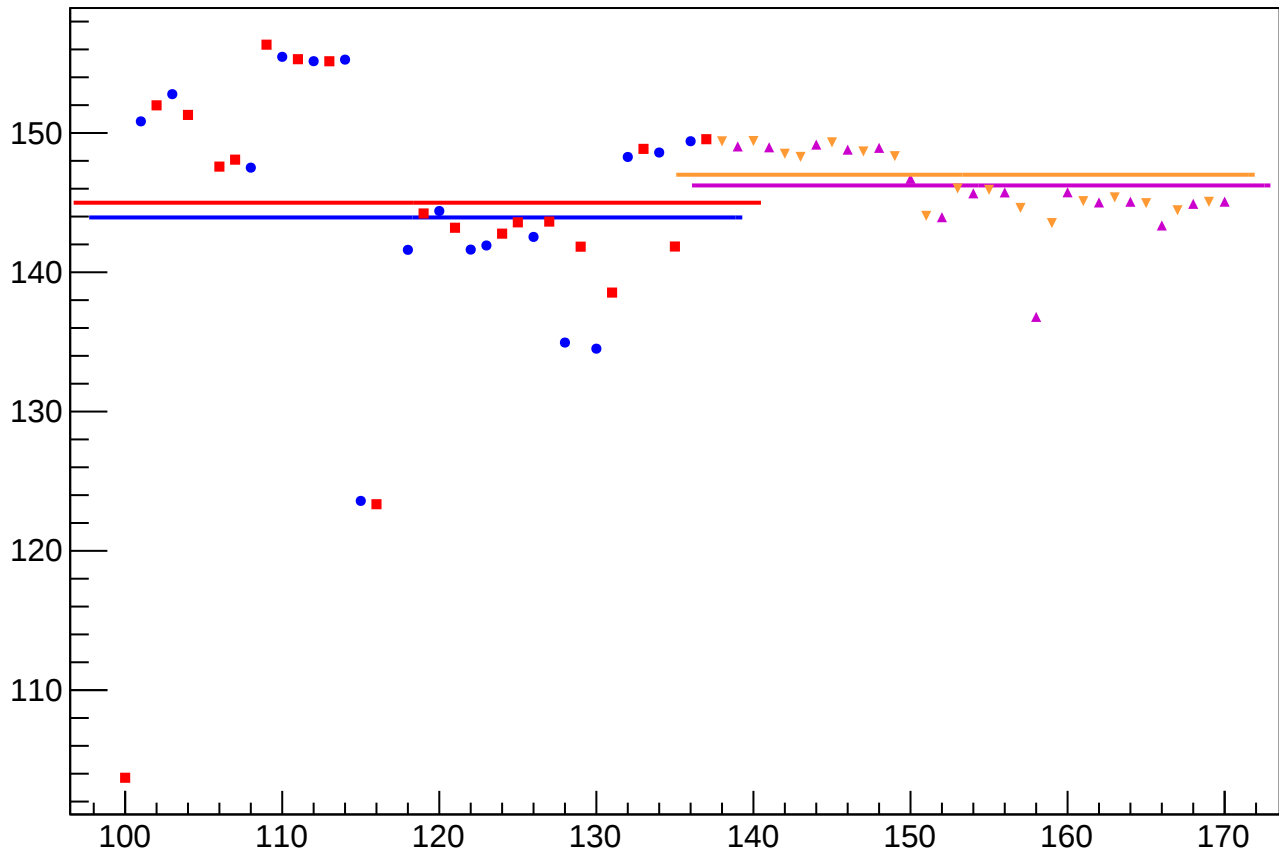
Right: 0.331 $\pm$ 0.000 χ^2/NDF : 2459580.1/35

In: 0.382 $\pm$ 0.000 χ^2/NDF : 2492908.7/32

Out: 0.379 $\pm$ 0.000 χ^2/NDF : 2439470.3/35

All: 0.380 $\pm$ 0.000 χ^2/NDF : 4933386.8/68

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: 146.235 $\pm$ 0.000 χ^2/NDF : 621803088.6/15

Left: 146.629 $\pm$ 0.000 χ^2/NDF : 943562665.1/32

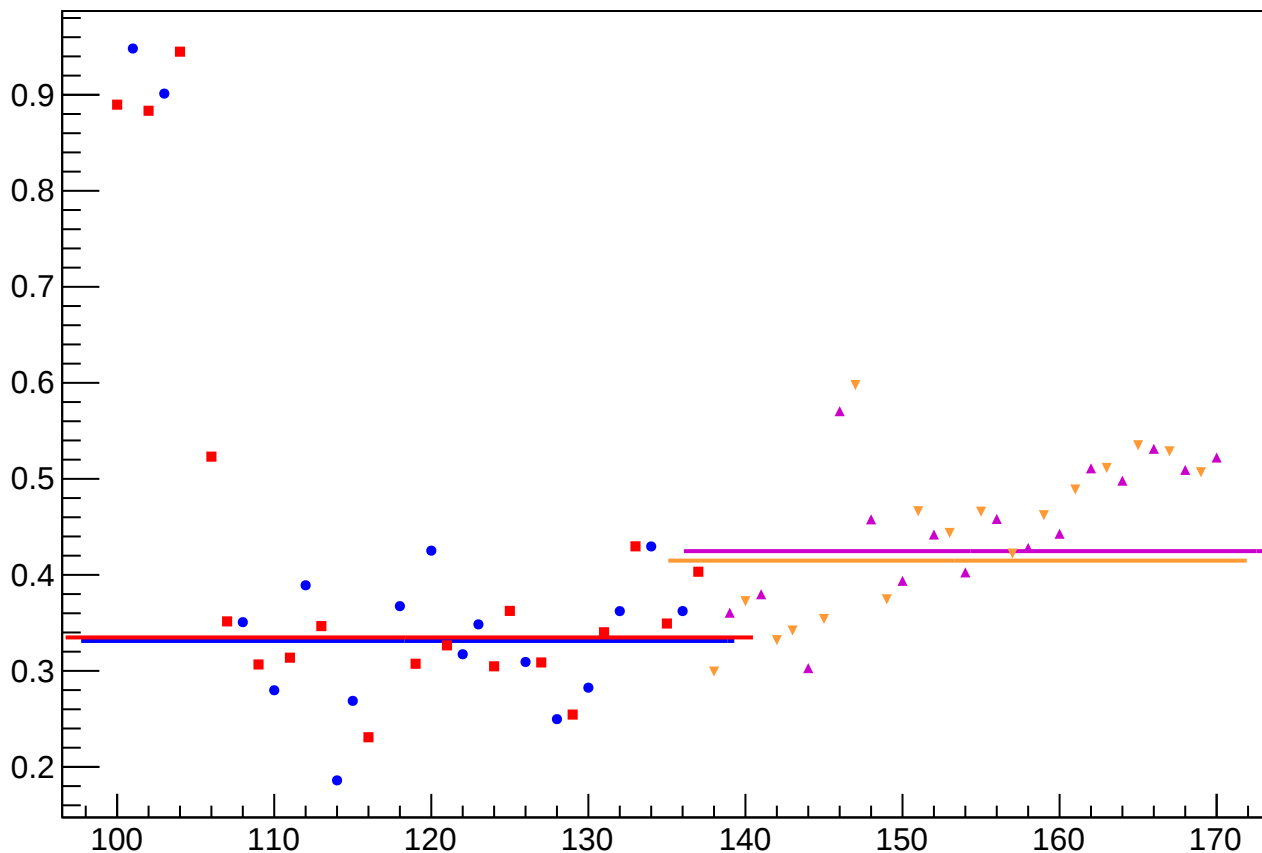
Right: 144.474 $\pm$ 0.000 χ^2/NDF : 7341982360.6/35

In: 145.228 $\pm$ 0.000 χ^2/NDF : 4150802797.8/32

Out: 146.132 $\pm$ 0.000 χ^2/NDF : 4355351693.5/35

All: 145.690 $\pm$ 0.000 χ^2/NDF : 8554327139.4

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: 0.425+/-0.000 χ^2/NDF : 676008.7/15

Left: 0.420+/-0.000 χ^2/NDF : 1542537.3/32

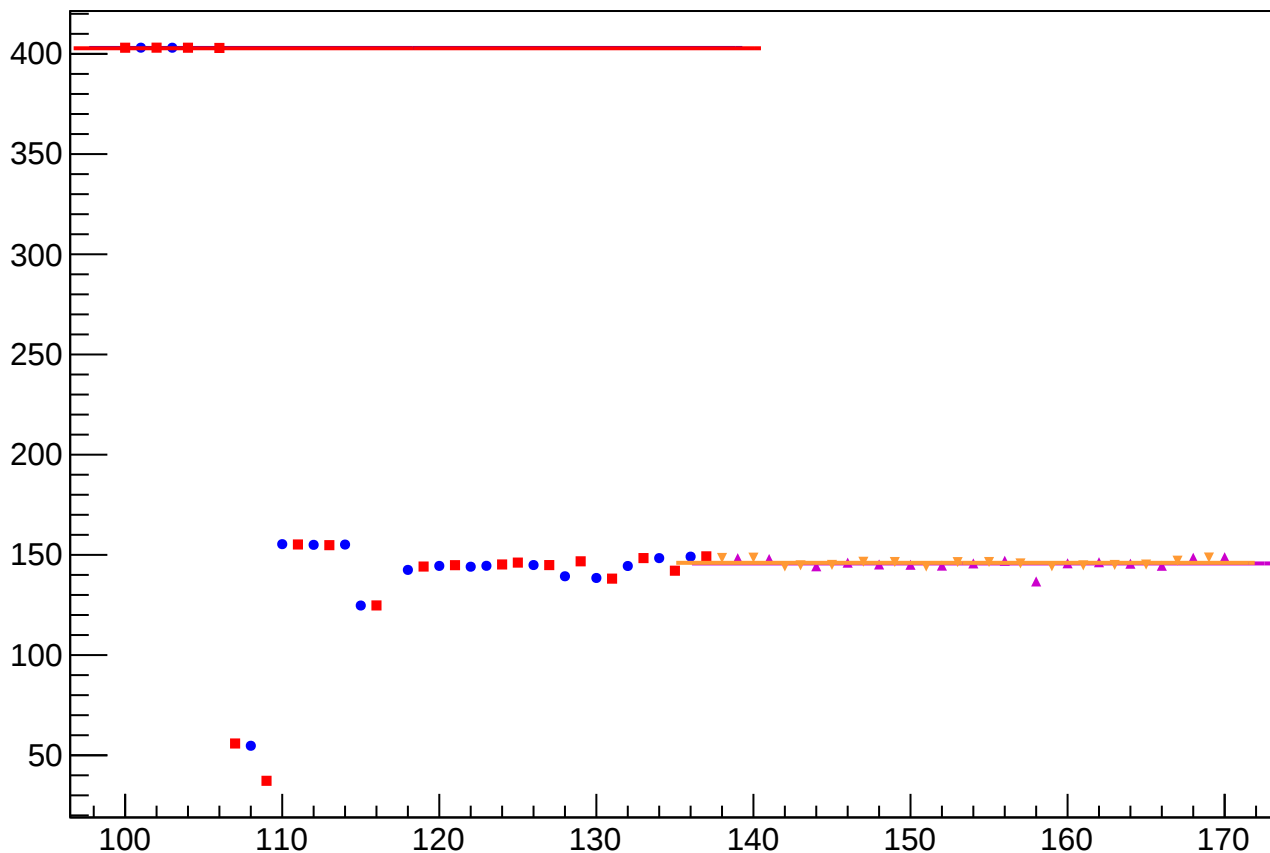
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.384+/-0.000 χ^2/NDF : 2468403.7/32

Out: 0.380+/-0.000 χ^2/NDF : 2410122.1/35

All: 0.382+/-0.000 χ^2/NDF : 4880048.2/68

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1096710296821.6/16

Left: 145.881+/-0.000

χ^2/NDF : 225383276.9/32

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: 402.750+/-0.000

χ^2/NDF : 2754520532690.8/32

Left In: 145.726+/-0.000

χ^2/NDF : 164804181.5/15

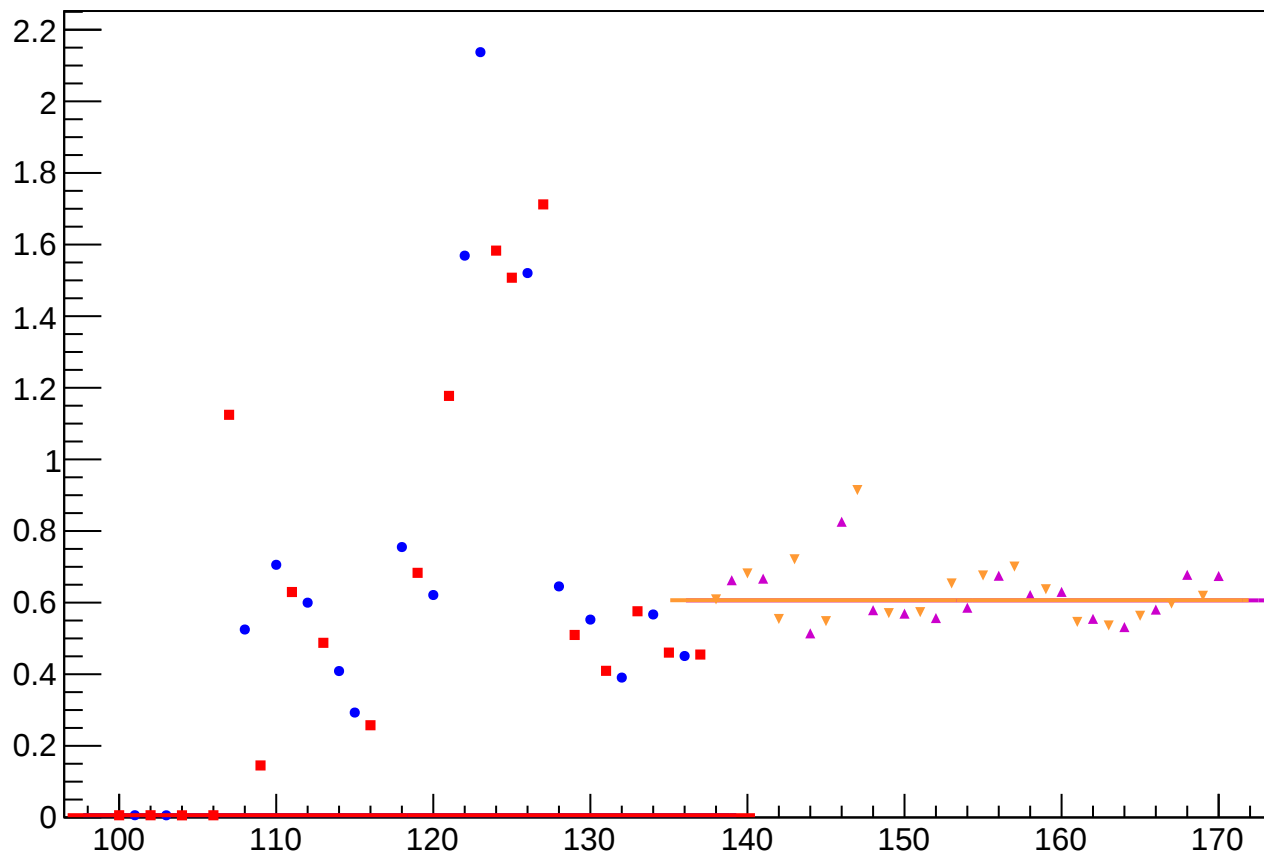
Out: 402.615+/-0.000

χ^2/NDF : 4763871830533.4/32

All: 402.679+/-0.000

χ^2/NDF : 751869476454.4/160

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.607+/-0.000 χ^2/NDF :256192.3/16

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.606+/-0.000 χ^2/NDF :226629.7/15

Left: 0.606+/-0.000 χ^2/NDF : 482826.8/32

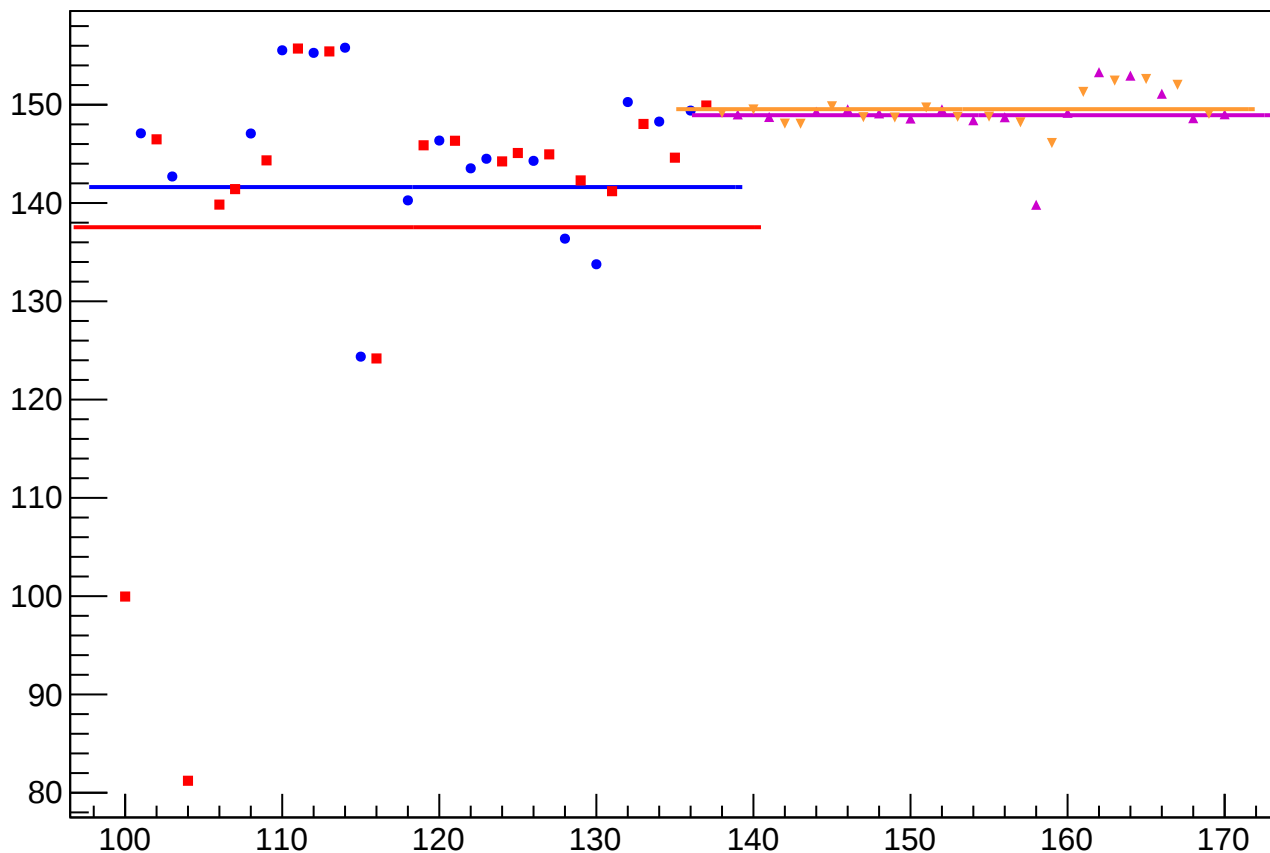
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF :27419951.8/32

Out: 0.007+/-0.000 χ^2/NDF :27618652.9/35

All: 0.007+/-0.000 χ^2/NDF : 55038745.0/68

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622+/-0.000 χ^2/NDF : 982037737.7/16

Left Out: 149.549+/-0.000 χ^2/NDF : 119138973.2/16

Right Out: 137.536+/-0.000 χ^2/NDF : 1315768553.6/18

Left In: 148.934+/-0.000 χ^2/NDF : 363128035.5/15

Left: 149.252+/-0.000 χ^2/NDF : 489375686.1/32

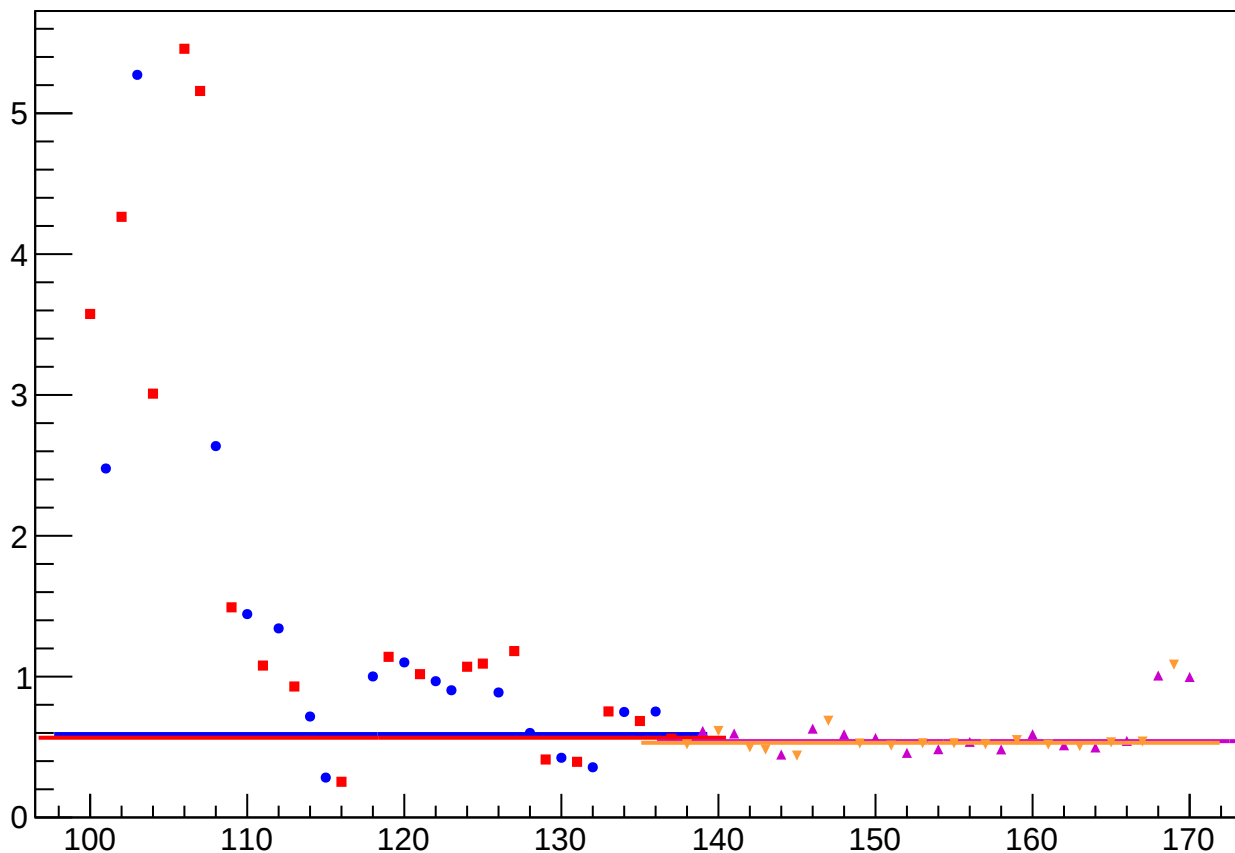
Right: 139.530+/-0.000 χ^2/NDF : 2384319562.8/35

In: 147.340+/-0.000 χ^2/NDF : 1768269652.2/32

Out: 146.977+/-0.000 χ^2/NDF : 2639444462.6/35

All: 147.153+/-0.000 χ^2/NDF : 4410867568.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.530 $\pm$ 0.000 χ^2 /NDF:527684.3/16

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.542 $\pm$ 0.000 χ^2 /NDF:832479.5/15

Left: 0.536 $\pm$ 0.000 χ^2 /NDF: 1365192.5/32

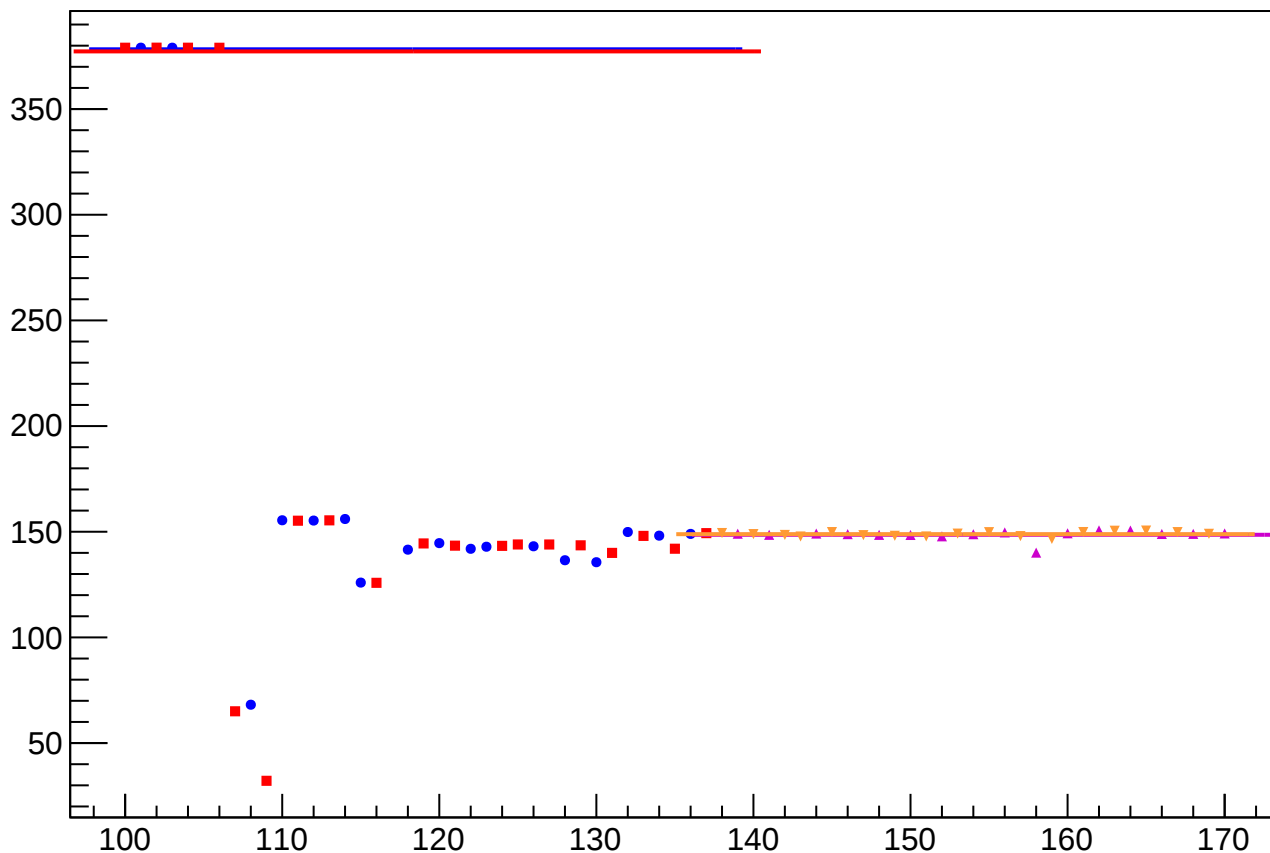
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.553 $\pm$ 0.000 χ^2 /NDF:4394366.1/32

Out: 0.538 $\pm$ 0.000 χ^2 /NDF:5231391.4/35

All: 0.545 $\pm$ 0.000 χ^2 /NDF: 9636366.0/68

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000

χ^2/NDF : 2512261599188.1/16

Left: 148.706+/-0.000

χ^2/NDF : 296675845.8/32

Left Out: 148.843+/-0.000

χ^2/NDF : 59976667.2/16

Right: 377.753+/-0.000

χ^2/NDF : 10798714881373.0

Right Out: 377.289+/-0.000

χ^2/NDF : 8279468194444.1/18

In: 377.338+/-0.000

χ^2/NDF : 5400062219021.4/32

Left In: 148.559+/-0.000

χ^2/NDF : 234387968.0/15

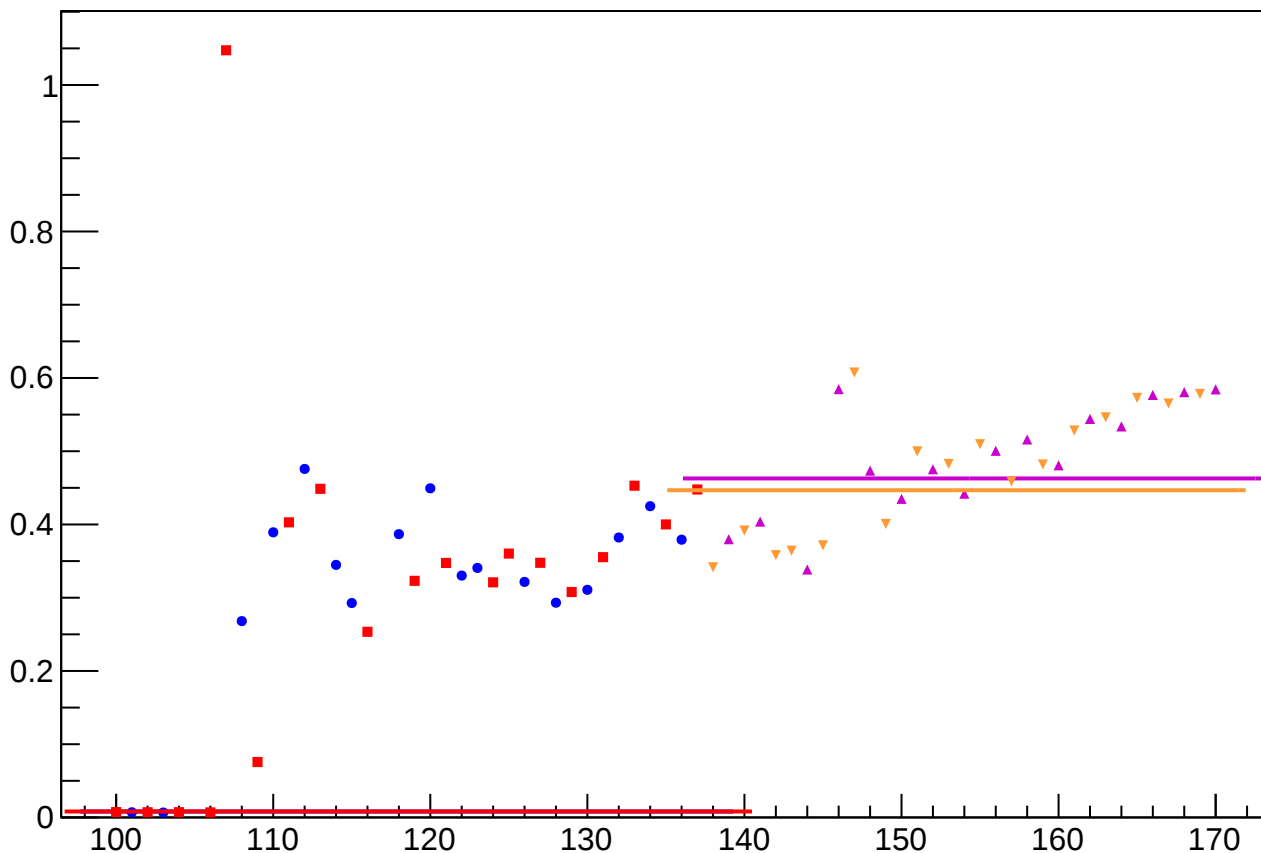
Out: 376.400+/-0.000

χ^2/NDF : 11363904927655.7

All: 376.838+/-0.000

χ^2/NDF : 167702288198.0

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: 0.463 $\pm$ 0.000 χ^2 /NDF:663186.4/15

Left: 0.454 $\pm$ 0.000 χ^2 /NDF: 1492397.4/32

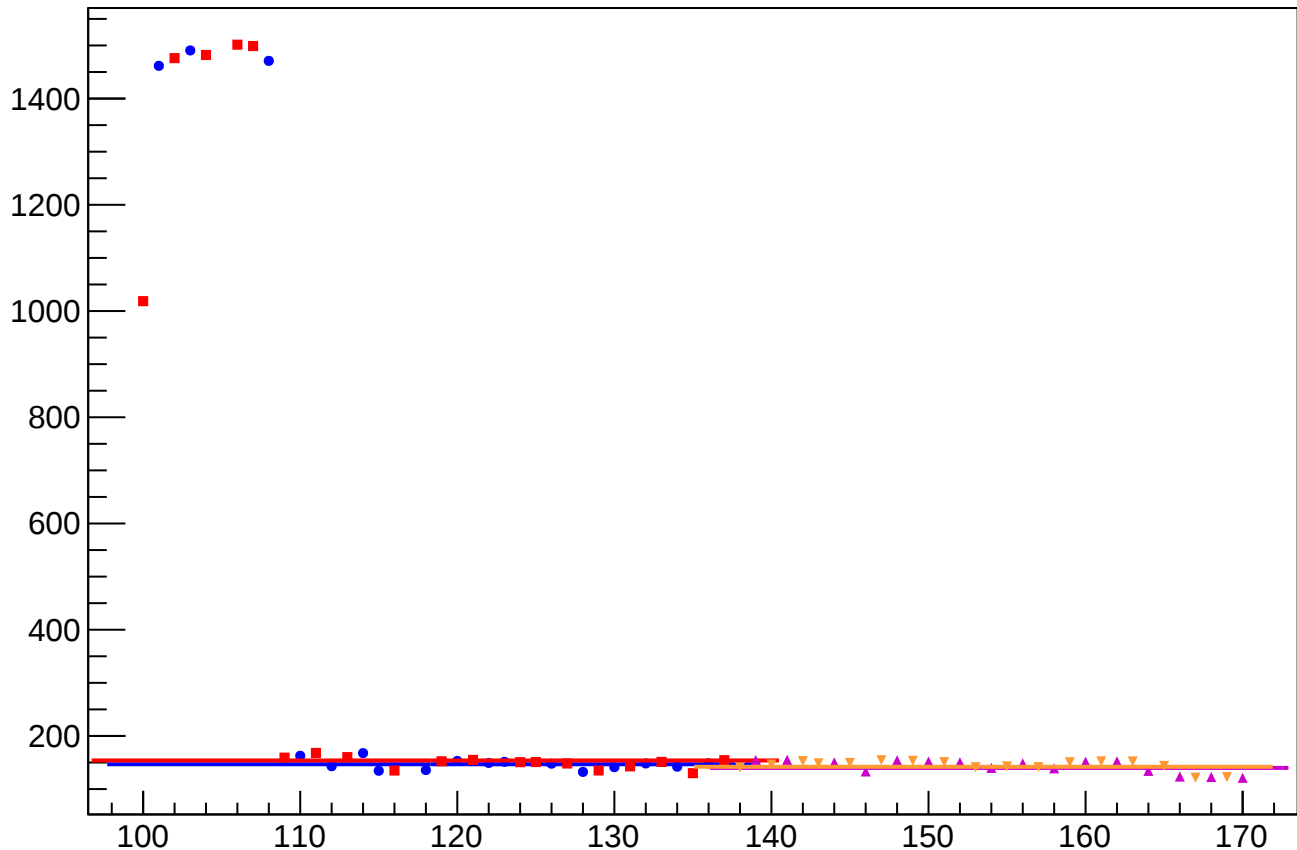
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:33175885.5/32

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:33091213.3/35

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 66267383.6/68

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000

χ^2/NDF : 24350870553.3/16

Left: 140.908+/-0.000

χ^2/NDF : 4290436843.5/32

Left Out: 141.972+/-0.000

χ^2/NDF : 1865719573.7/16

Right: 150.283+/-0.000

χ^2/NDF : 58225591435.1/35

Right Out: 153.887+/-0.000

χ^2/NDF : 33738118250.9/18

In: 141.691+/-0.000

χ^2/NDF : 26927933292.4/32

Out: 145.150+/-0.000

χ^2/NDF : 36154690285.3/35

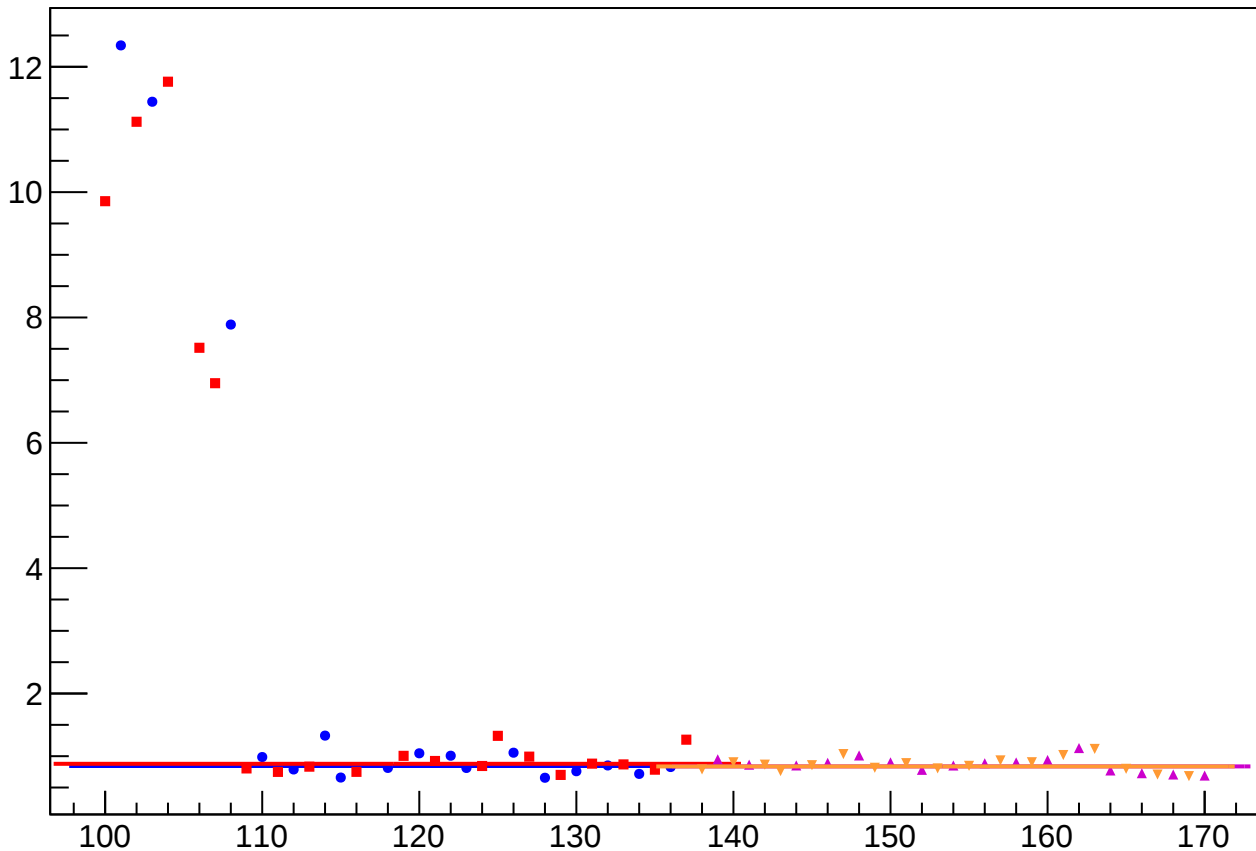
Left In: 139.847+/-0.000

χ^2/NDF : 2391788219.6/15

All: 143.415+/-0.000

χ^2/NDF : 63201682802.0/168

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: 0.837+/-0.000 χ^2/NDF : 344249.8/15

Left: 0.837+/-0.000 χ^2/NDF : 694222.3/32

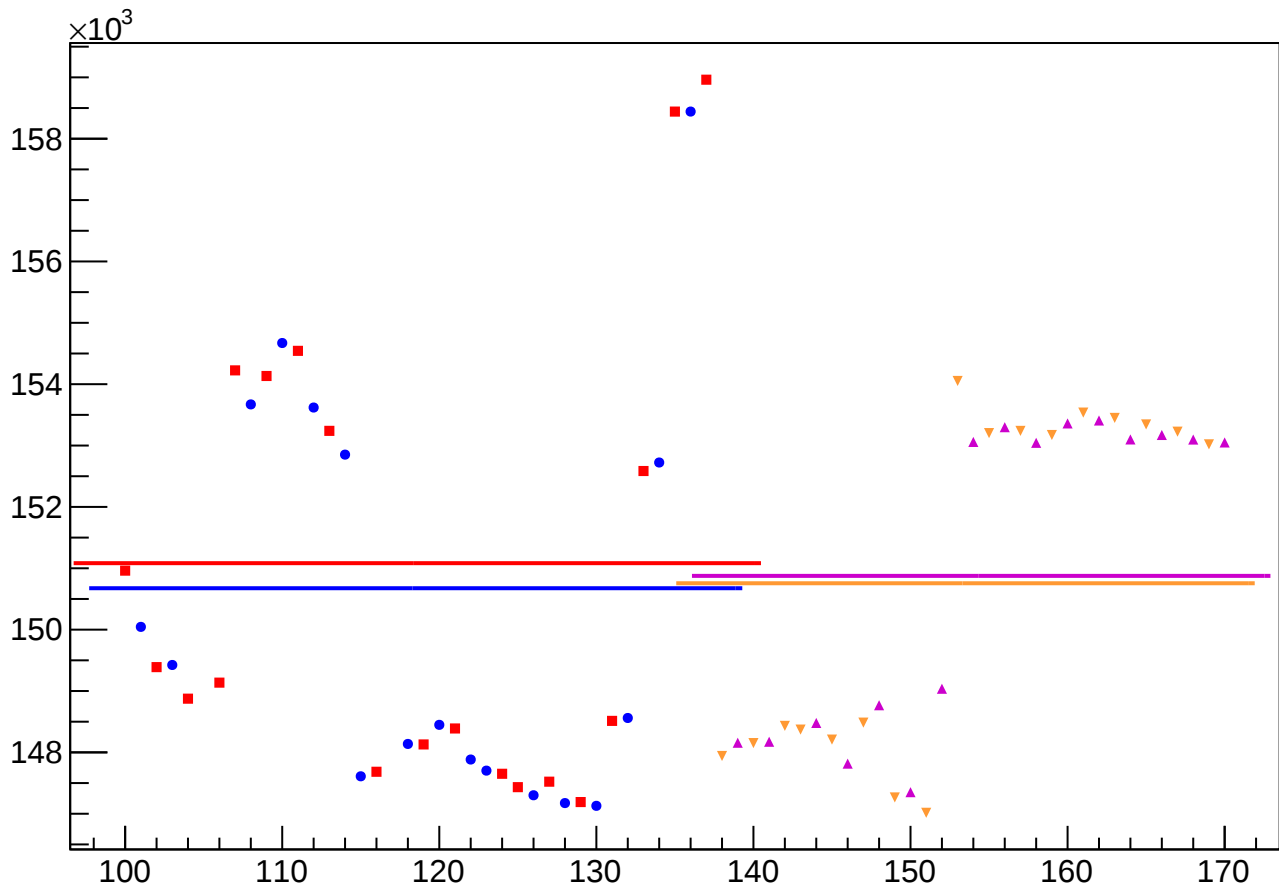
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.839+/-0.000 χ^2/NDF : 3015055.9/32

Out: 0.848+/-0.000 χ^2/NDF : 3175992.1/35

All: 0.843+/-0.000 χ^2/NDF : 6192612.4/68

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2 /NDF: 3309974859.4/16

Left: 150814.146 $\pm$ 0.039

χ^2 /NDF: 4434318993.2/3

Right: 150890.022 $\pm$ 0.043

χ^2 /NDF: 6632946370.1/16

Left Out: 150755.915 $\pm$ 0.055

χ^2 /NDF: 2536290109.0/16

In: 150786.686 $\pm$ 0.042

χ^2 /NDF: 5211321168.3/32

Right Out: 151083.268 $\pm$ 0.060

χ^2 /NDF: 3300830370.5/18

Out: 150905.011 $\pm$ 0.040

χ^2 /NDF: 5853497499.5/32

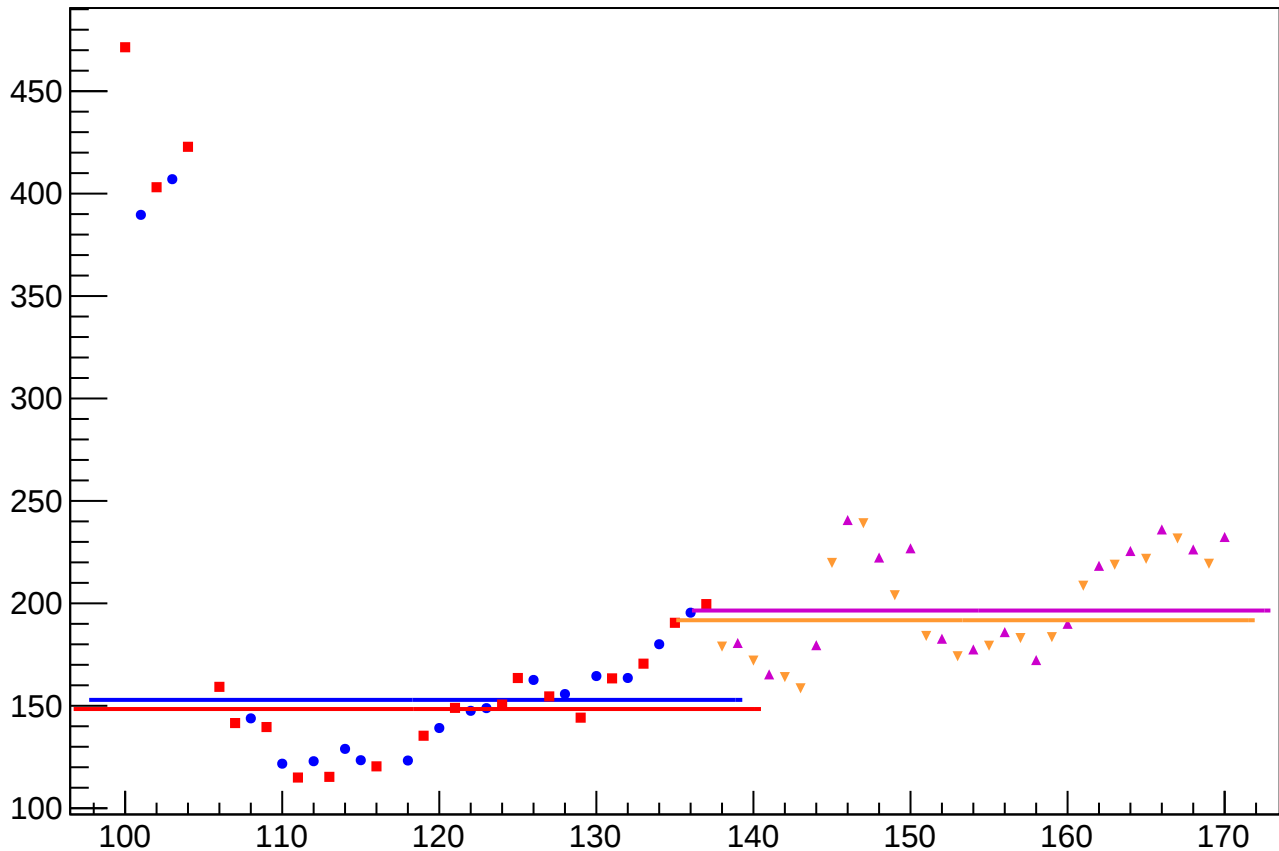
Left In: 150876.329 $\pm$ 0.056

χ^2 /NDF: 1895676084.9/15

All: 150848.336 $\pm$ 0.029

χ^2 /NDF: 110689509.5/16

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 191.754 $\pm$ 0.039 χ^2 /NDF:359150.2/16

Right Out: 148.418 $\pm$ 0.042 χ^2 /NDF: 1191577.6/18

Left In: 196.495 $\pm$ 0.040 χ^2 /NDF:389266.8/15

Left: 194.047 $\pm$ 0.028 χ^2 /NDF: 755711.7/32

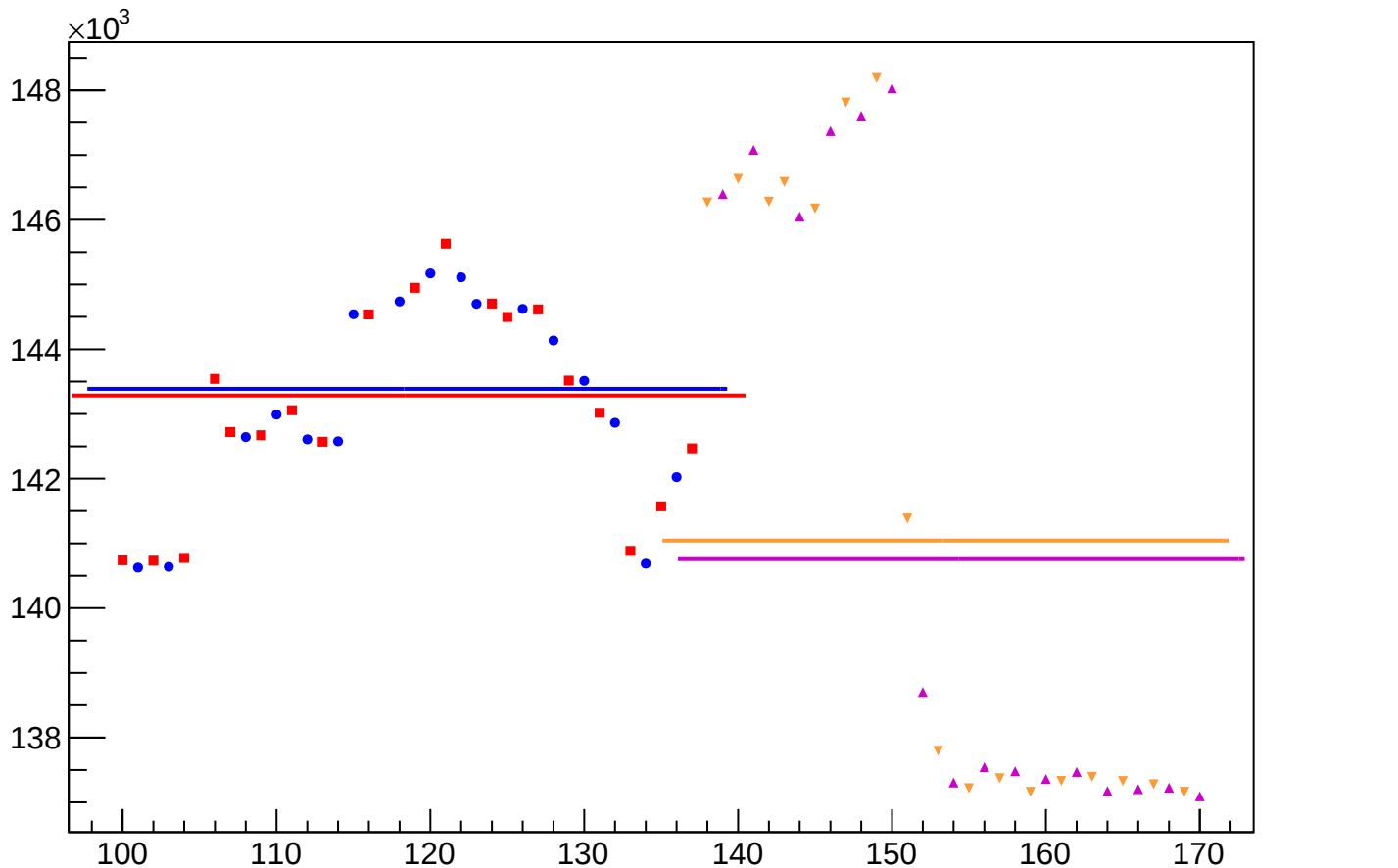
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 177.074 $\pm$ 0.030 χ^2 /NDF:2075635.1/32

Out: 172.016 $\pm$ 0.028 χ^2 /NDF:2124751.7/35

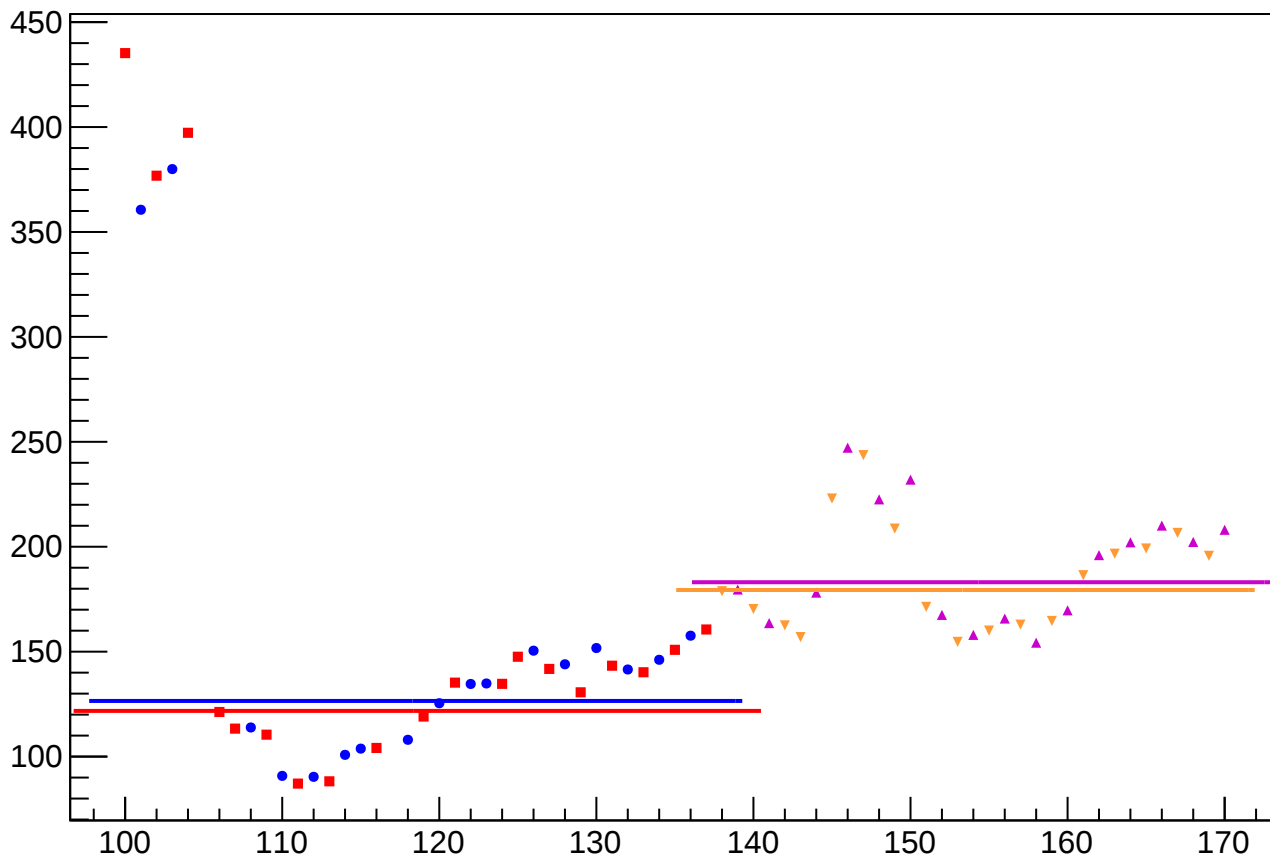
All: 174.439 $\pm$ 0.021 χ^2 /NDF: 4215487.1/68

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 ± 0.053	$\chi^2/\text{NDF}: 521299875.7/16$	Left: 140904.902 ± 0.037	$\chi^2/\text{NDF}: 14963052096.1$
Left Out: 141044.409 ± 0.051	$\chi^2/\text{NDF}: 7592984833.4/16$	Right: 143332.291 ± 0.036	$\chi^2/\text{NDF}: 1131952524.8$
Right Out: 143284.757 ± 0.049	$\chi^2/\text{NDF}: 608634820.1/18$	In: 142071.197 ± 0.037	$\chi^2/\text{NDF}: 9121124550.1/32$
Left In: 140756.890 ± 0.053	$\chi^2/\text{NDF}: 7354739623.3/15$	Out: 142210.483 ± 0.035	$\chi^2/\text{NDF}: 9199906271.8/32$
		All: 142144.376 ± 0.026	$\chi^2/\text{NDF}: 183283686$

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: 183.089 $\pm$ 0.037 χ^2 /NDF: 468567.8/15

Left: 181.189 $\pm$ 0.026 χ^2 /NDF: 869227.1/32

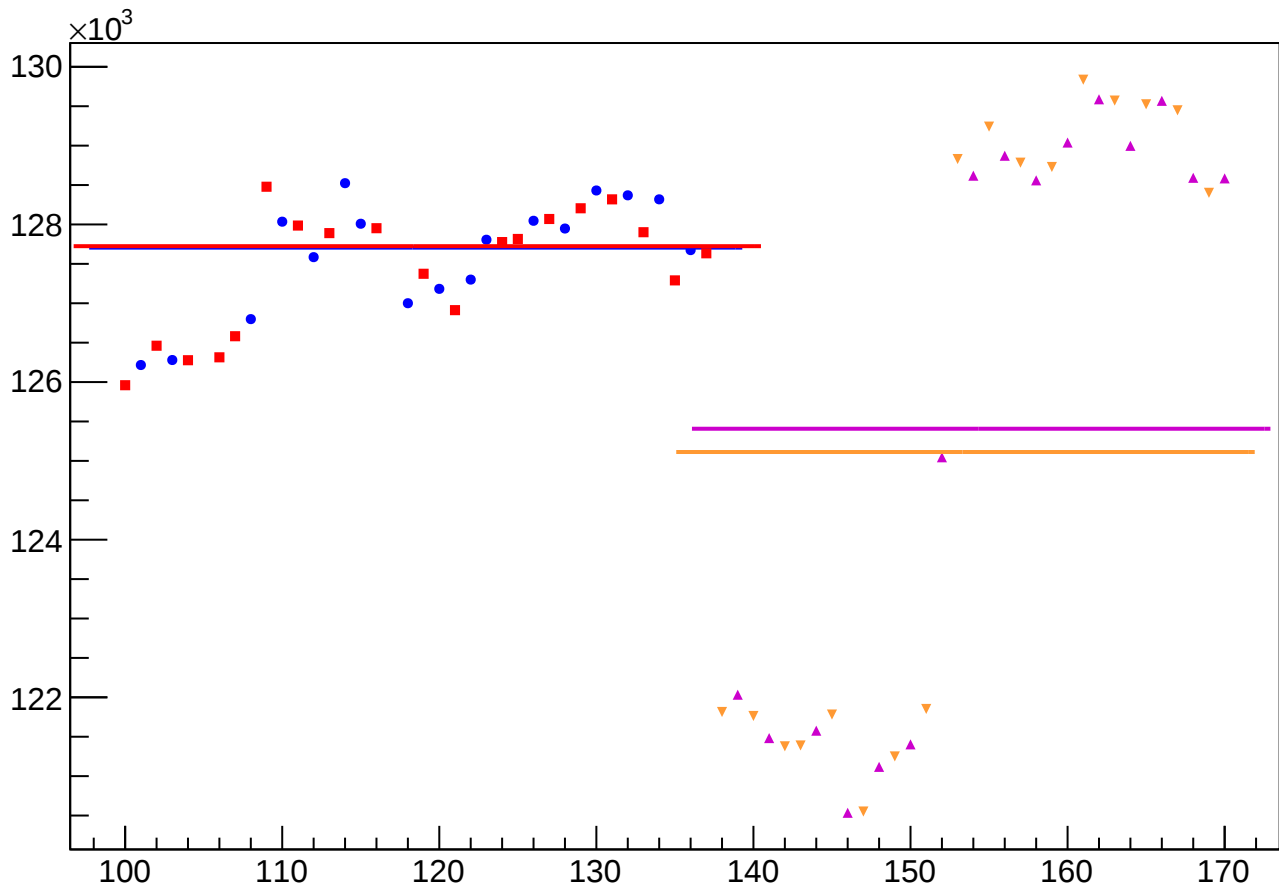
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 154.819 $\pm$ 0.026 χ^2 /NDF: 3062373.3/32

Out: 149.405 $\pm$ 0.025 χ^2 /NDF: 3180428.3/35

All: 151.974 $\pm$ 0.018 χ^2 /NDF: 6264973.5/68

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194+/-0.058

χ^2/NDF : 97860521.1/16

Left Out: 125112.734+/-0.050

χ^2/NDF : 5719682949.5/16

Right Out: 127724.256+/-0.055

χ^2/NDF : 112614317.2/18

Left In: 125407.854+/-0.050

χ^2/NDF : 5134070298.8/15

Left: 125261.389+/-0.035

χ^2/NDF : 10871229368.1

Right: 127715.791+/-0.040

χ^2/NDF : 210526259.6/3

In: 126380.540+/-0.038

χ^2/NDF : 6135791071.4/32

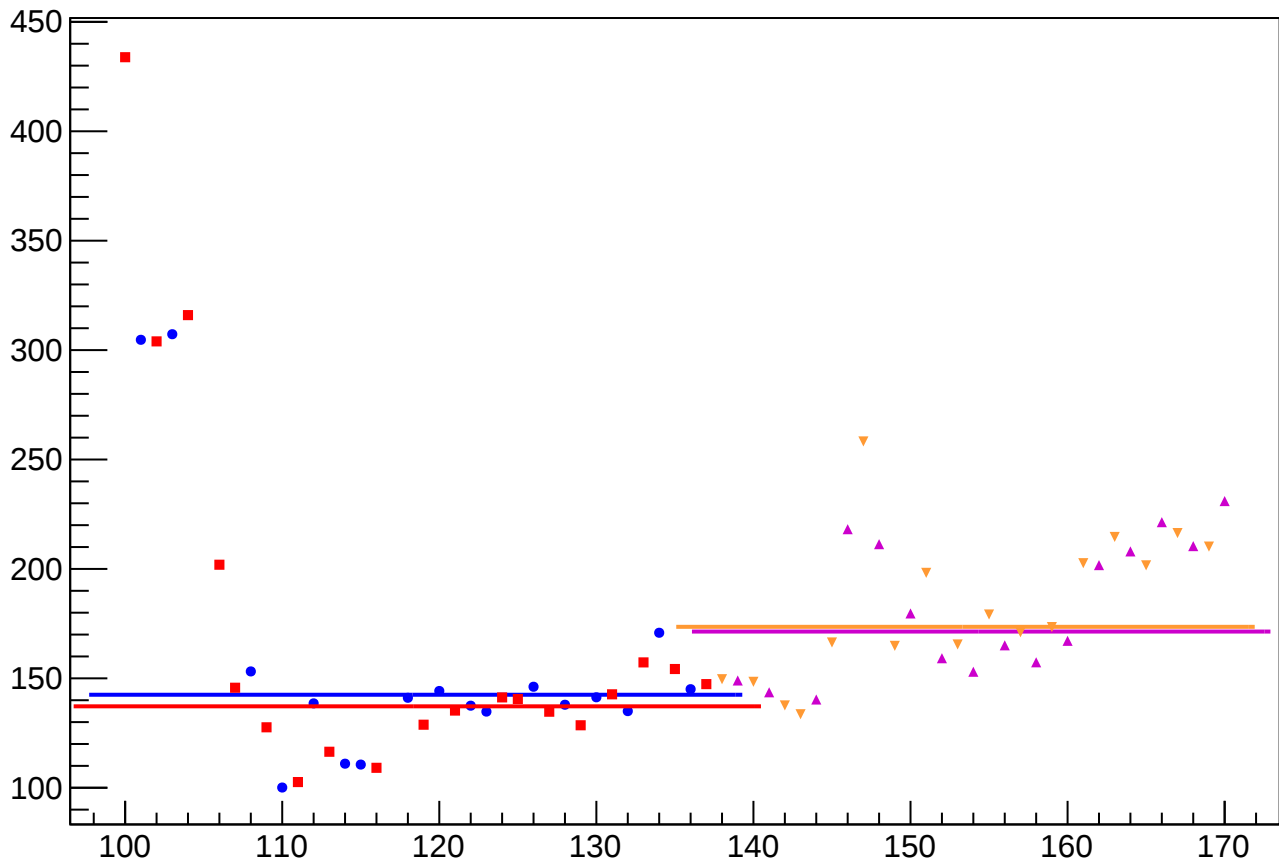
Out: 126308.280+/-0.037

χ^2/NDF : 7076030307.9/3

All: 126343.561+/-0.026

χ^2/NDF : 13213694

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 ± 0.041 $\chi^2/\text{NDF}: 836263.7/16$

Left Out: 173.545 ± 0.035 $\chi^2/\text{NDF}: 670441.6/16$

Right Out: 137.211 ± 0.039 $\chi^2/\text{NDF}: 957317.1/18$

Left In: 171.378 ± 0.035 $\chi^2/\text{NDF}: 641798.2/15$

Left: 172.453 ± 0.025 $\chi^2/\text{NDF}: 1314123.5/32$

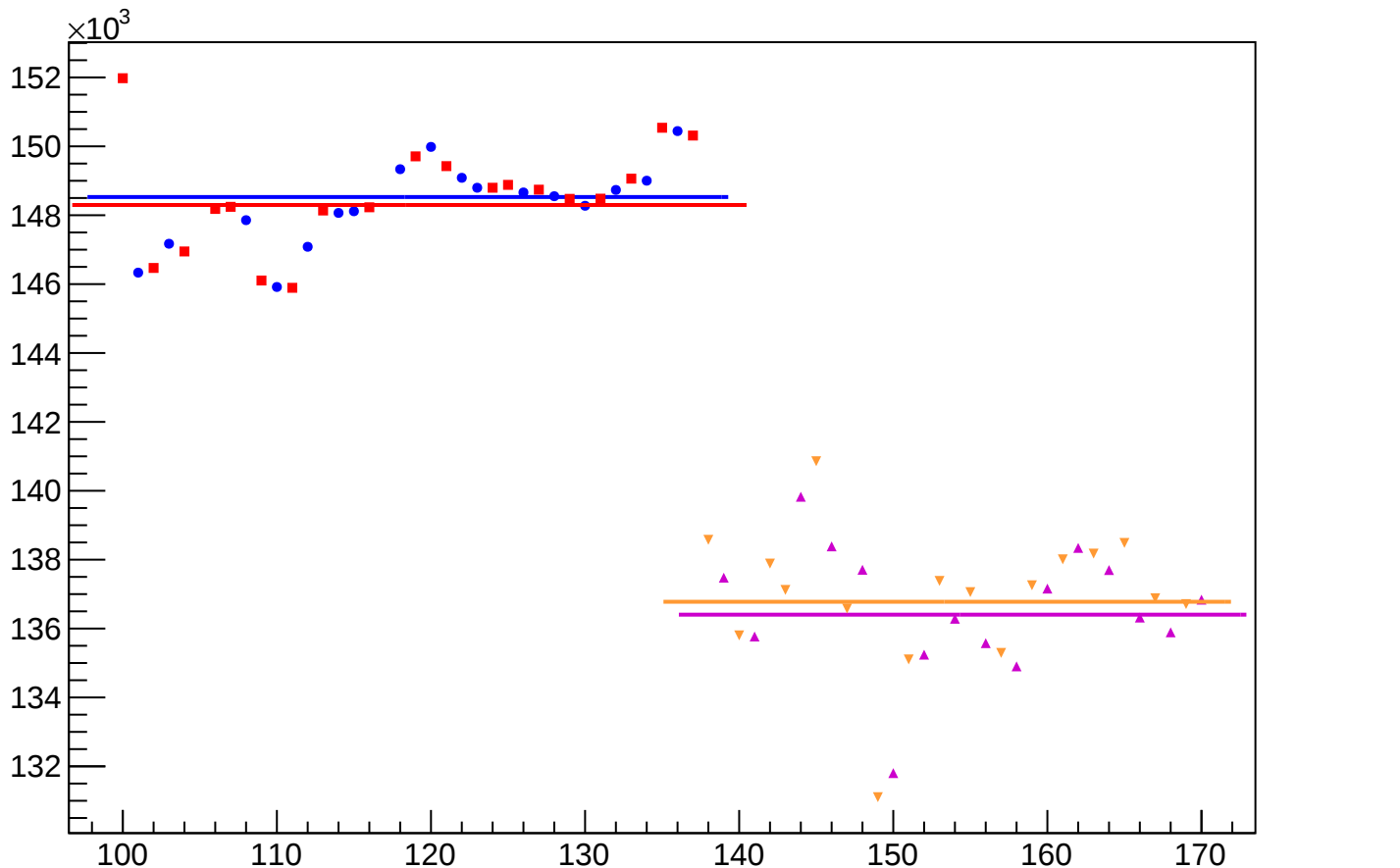
Right: 139.691 ± 0.028 $\chi^2/\text{NDF}: 1802403.2/35$

In: 159.157 ± 0.027 $\chi^2/\text{NDF}: 1763421.3/32$

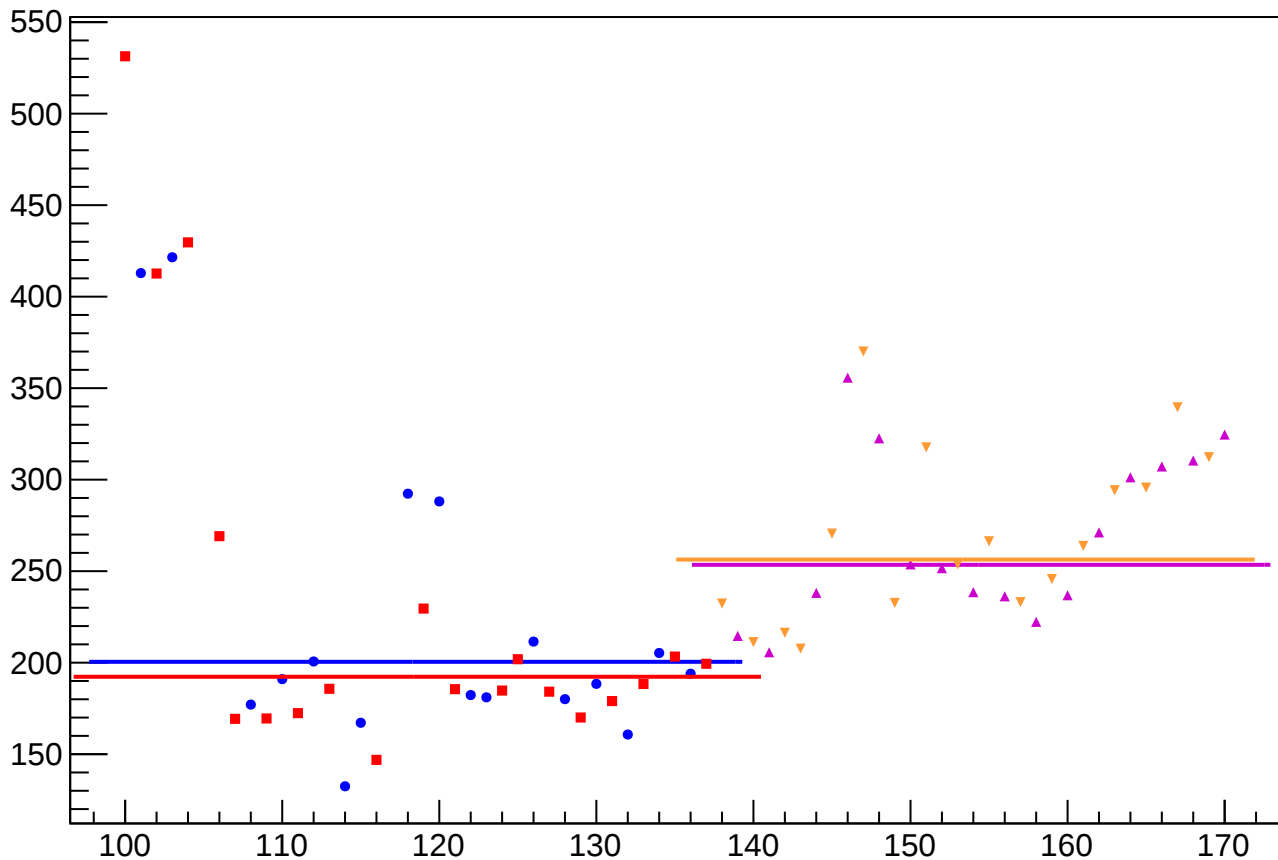
Out: 156.911 ± 0.026 $\chi^2/\text{NDF}: 2109235.8/35$

All: 158.008 ± 0.019 $\chi^2/\text{NDF}: 3876275.4/68$

yield_bpm0l02WS_mean vs Slug, Sign Corrected



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: 253.478 $\pm$ 0.052 χ^2 /NDF: 596472.7/15

Left: 254.909 $\pm$ 0.037 χ^2 /NDF: 1218108.7/32

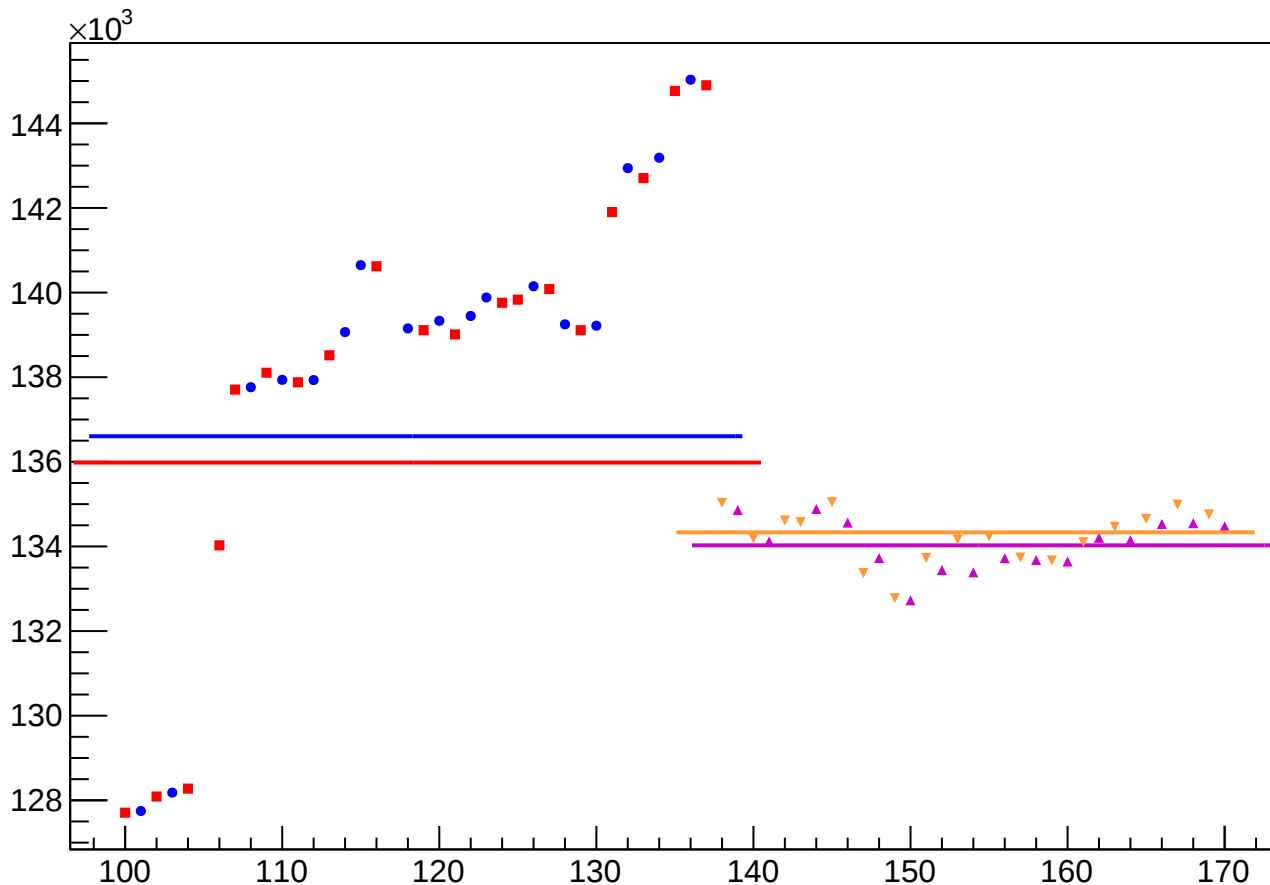
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 229.979 $\pm$ 0.039 χ^2 /NDF: 1997431.3/32

Out: 225.521 $\pm$ 0.037 χ^2 /NDF: 2193404.1/35

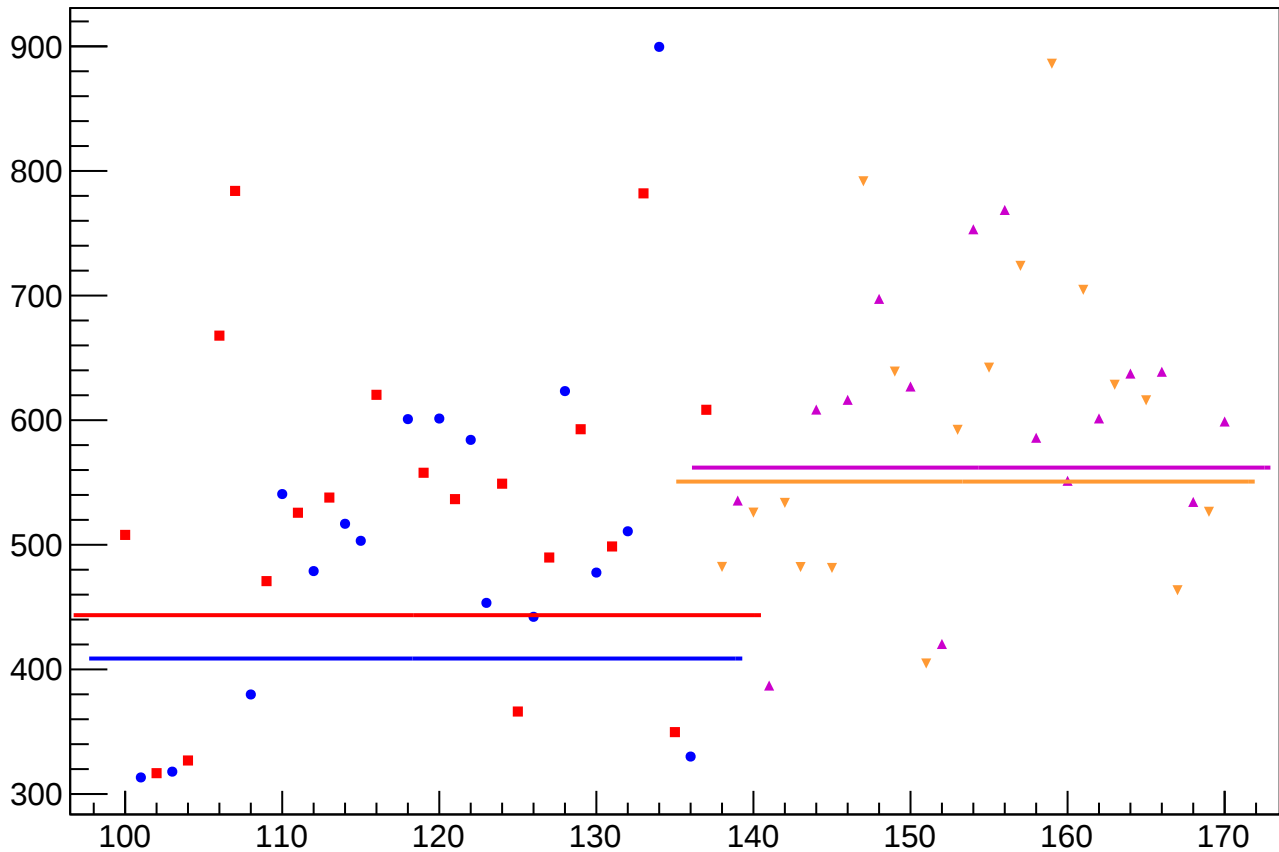
All: 227.683 $\pm$ 0.027 χ^2 /NDF: 4197692.1/68

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134186.648 $\pm$ 0.120	χ^2 /NDF: 25781296.0/32
Left Out: 134333.488 $\pm$ 0.166	χ^2 /NDF: 13334401.5/16	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/32
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135335.166 $\pm$ 0.122	χ^2 /NDF: 1616554922.1/32
Left In: 134025.764 $\pm$ 0.174	χ^2 /NDF: 10813816.1/15	Out: 135081.107 $\pm$ 0.123	χ^2 /NDF: 1140330542.0/32
		All: 135209.000 $\pm$ 0.087	χ^2 /NDF: 275903336.0/64

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: 561.942 $\pm$ 0.123 χ^2 /NDF:746655.9/15

Left: 556.079 $\pm$ 0.085 χ^2 /NDF: 1633745.0/32

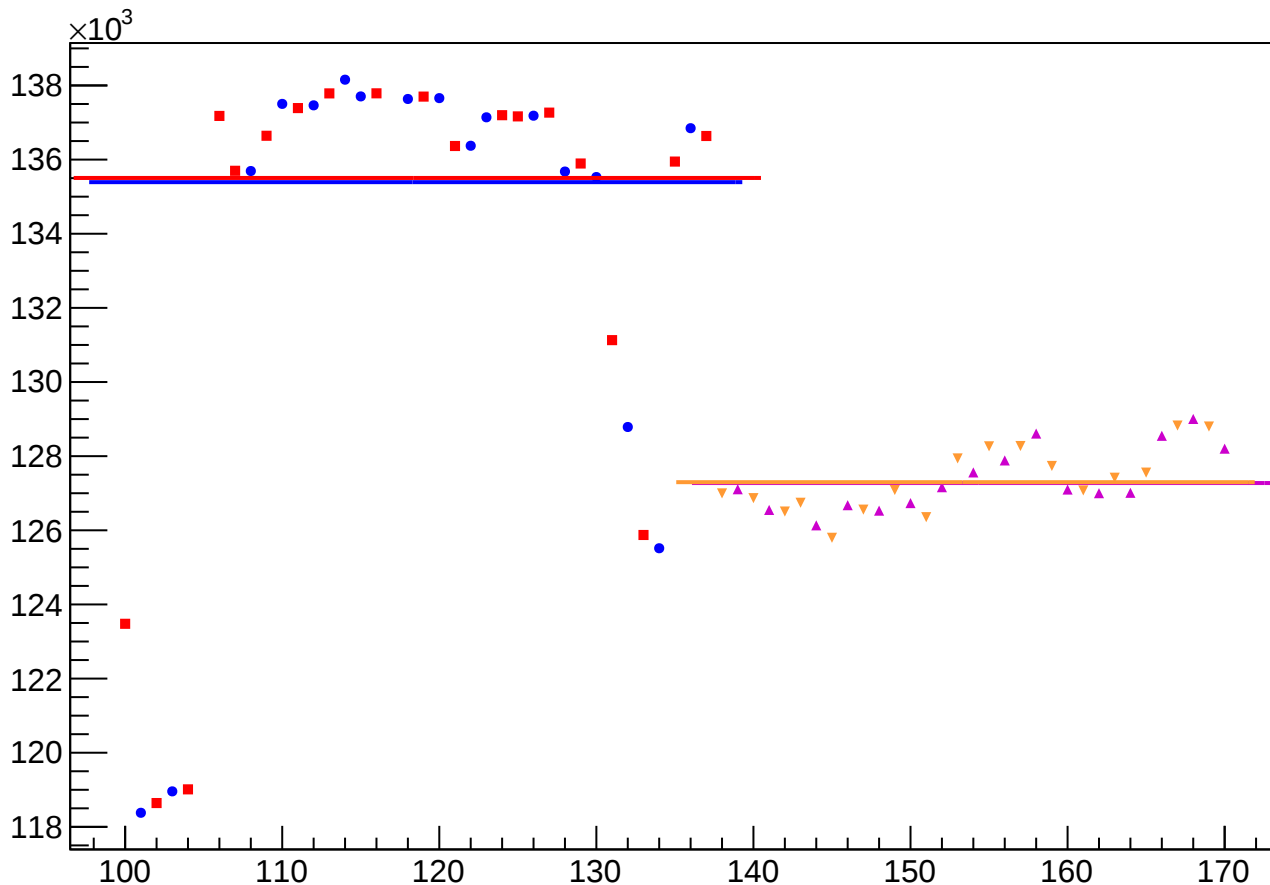
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 484.149 $\pm$ 0.086 χ^2 /NDF:2356224.9/32

Out: 502.133 $\pm$ 0.087 χ^2 /NDF:2176808.3/35

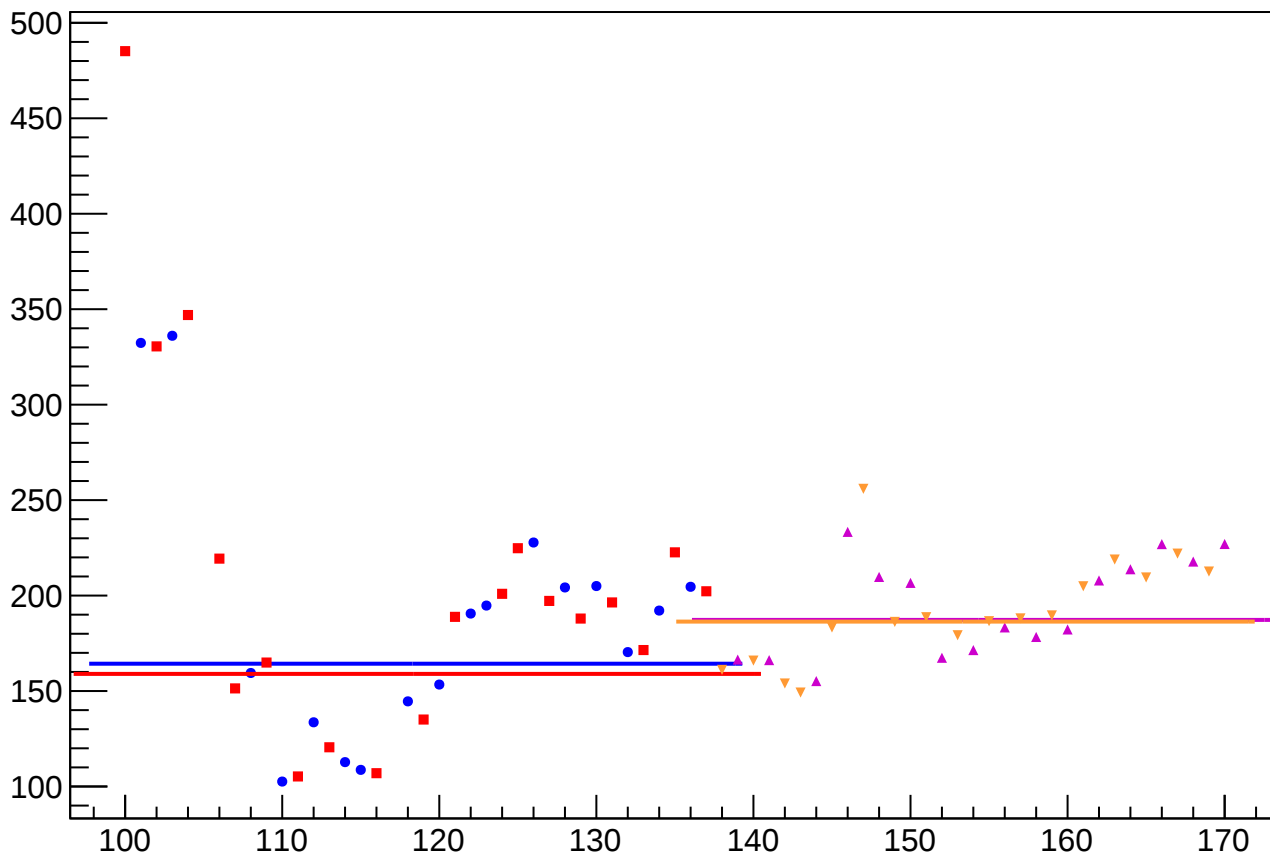
All: 493.080 $\pm$ 0.061 χ^2 /NDF: 4554558.4/68

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068 χ^2/NDF : 4580024611.0/16
 Left Out: 127298.335 $\pm$ 0.053 χ^2/NDF : 238642280.9/16
 Right Out: 135504.836 $\pm$ 0.064 χ^2/NDF : 4730667469.8/18
 Left In: 127274.981 $\pm$ 0.054 χ^2/NDF : 225927406.2/15
 All: 130517.851 $\pm$ 0.029 χ^2/NDF : 281361304

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 186.371+/-0.038 χ^2/NDF : 417701.7/16

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 187.254+/-0.038 χ^2/NDF : 404034.8/15

Left: 186.808+/-0.027 χ^2/NDF : 822008.0/32

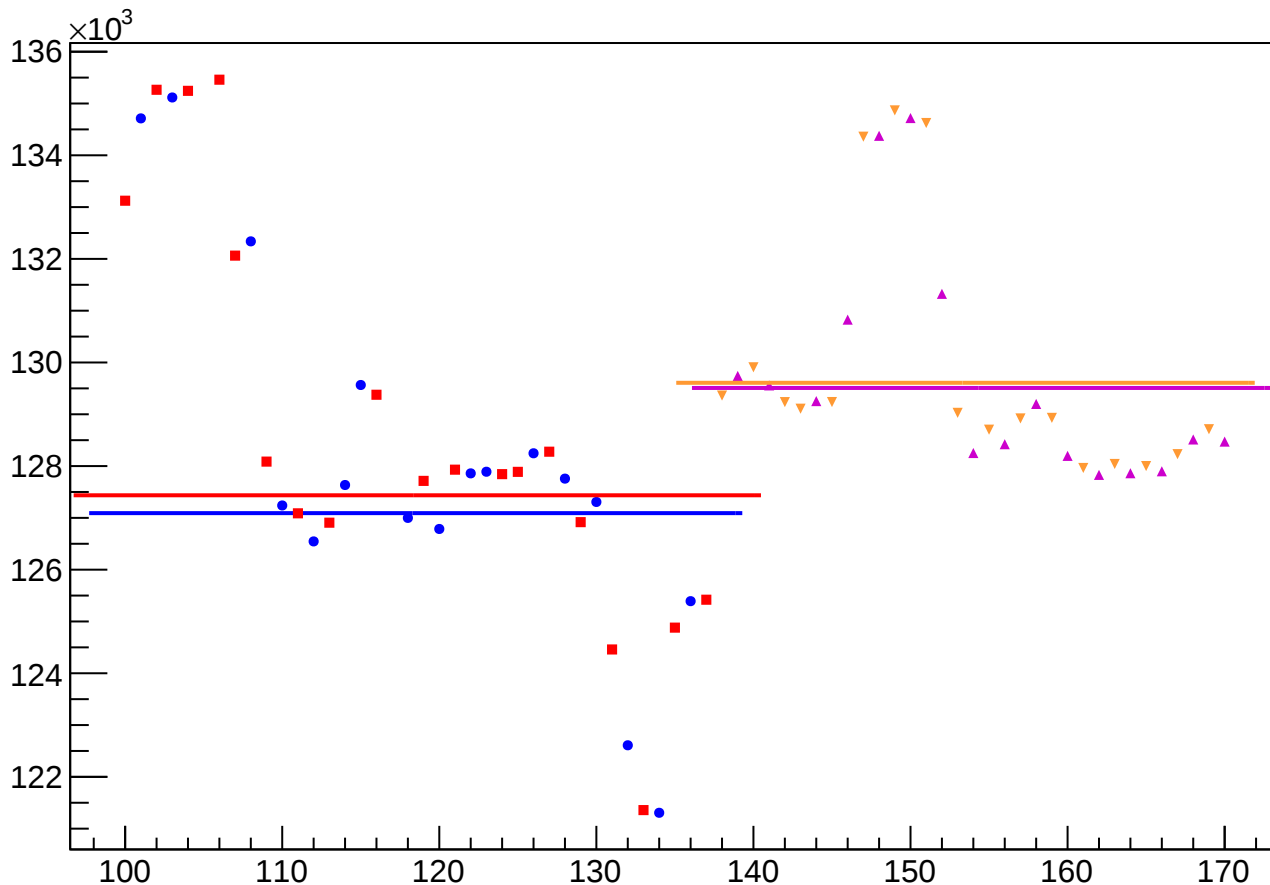
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 178.440+/-0.030 χ^2/NDF : 1773652.0/32

Out: 175.232+/-0.029 χ^2/NDF : 2016544.9/35

All: 176.788+/-0.021 χ^2/NDF : 3796119.5/68

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066

χ^2 /NDF: 1717208780.6/16

Left: 129558.508 $\pm$ 0.038

χ^2 /NDF: 2447816846.0/3

Left Out: 129607.986 $\pm$ 0.054

χ^2 /NDF: 1335933502.2/16

Right: 127276.609 $\pm$ 0.045

χ^2 /NDF: 3810794624.3/3

Right Out: 127436.101 $\pm$ 0.062

χ^2 /NDF: 2079075713.9/18

In: 128544.249 $\pm$ 0.042

χ^2 /NDF: 3625981018.4/32

Out: 128672.254 $\pm$ 0.040

χ^2 /NDF: 4123813529.8/3

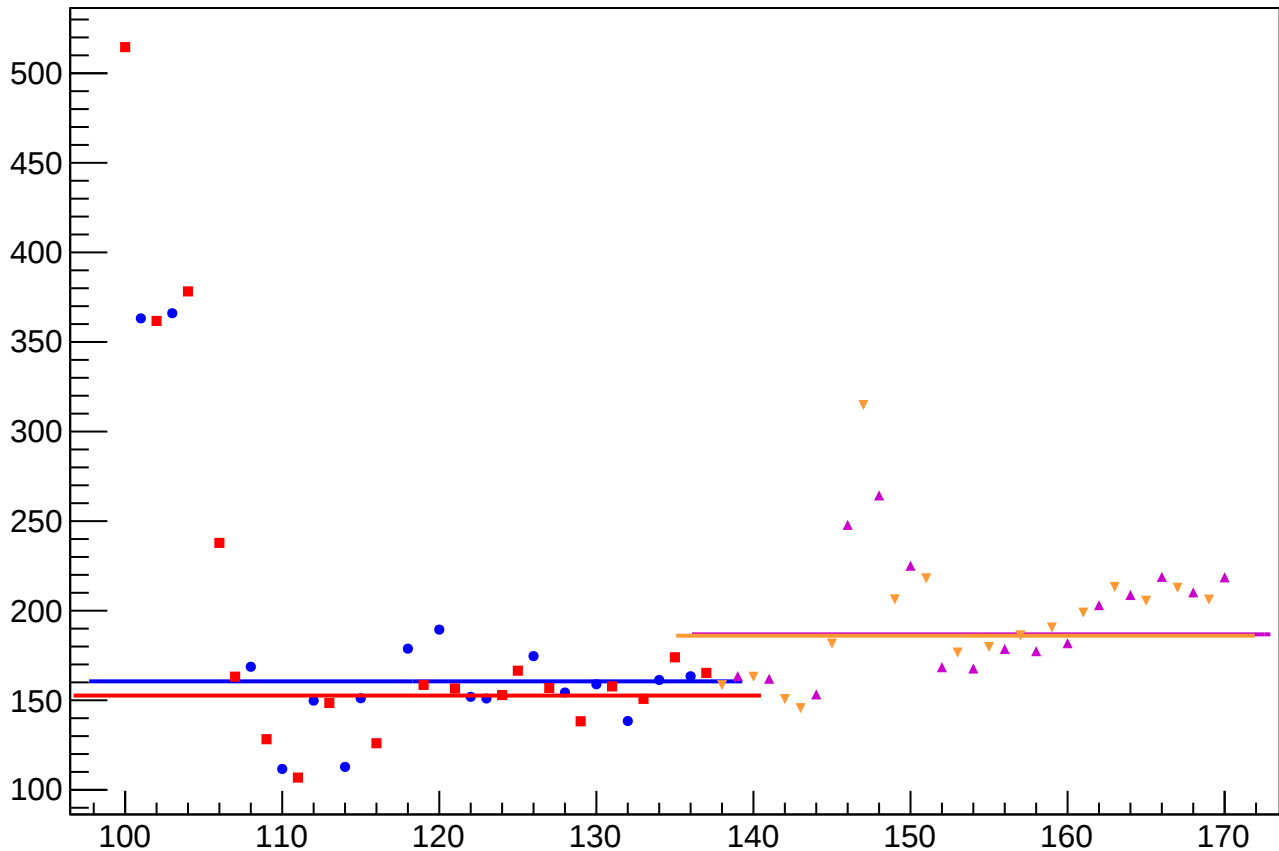
Left In: 129508.173 $\pm$ 0.054

χ^2 /NDF: 1110160945.5/15

All: 128610.549 $\pm$ 0.029

χ^2 /NDF: 775463449.0/16

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 186.045 $\pm$ 0.038 χ^2 /NDF: 614224.1/16

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 186.800 $\pm$ 0.038 χ^2 /NDF: 574764.8/15

Left: 186.419 $\pm$ 0.027 χ^2 /NDF: 1189185.9/32

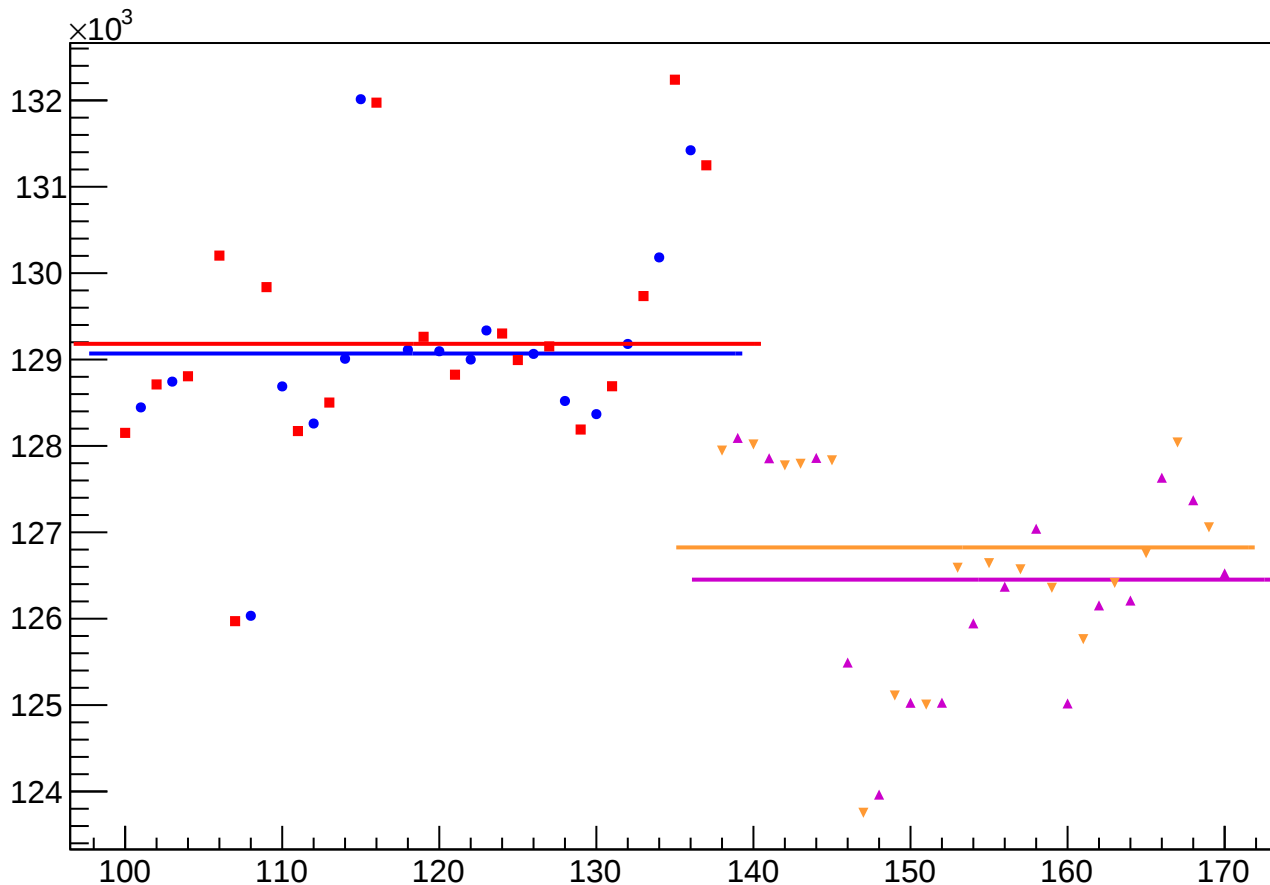
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 176.336 $\pm$ 0.030 χ^2 /NDF: 1705759.8/32

Out: 171.648 $\pm$ 0.029 χ^2 /NDF: 2036315.3/35

All: 173.908 $\pm$ 0.021 χ^2 /NDF: 3755055.9/68

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2 /NDF: 476692316.5/16

Left Out: 126825.133 $\pm$ 0.052

χ^2 /NDF: 462212109.5/16

Right Out: 129181.887 $\pm$ 0.056

χ^2 /NDF: 625597399.6/18

Left In: 126452.111 $\pm$ 0.052

χ^2 /NDF: 542416030.1/15

Left: 126640.886 $\pm$ 0.037

χ^2 /NDF: 1030335568.7/3

Right: 129129.710 $\pm$ 0.041

χ^2 /NDF: 1104150743.5/3

In: 127579.531 $\pm$ 0.039

χ^2 /NDF: 2096469932.9/32

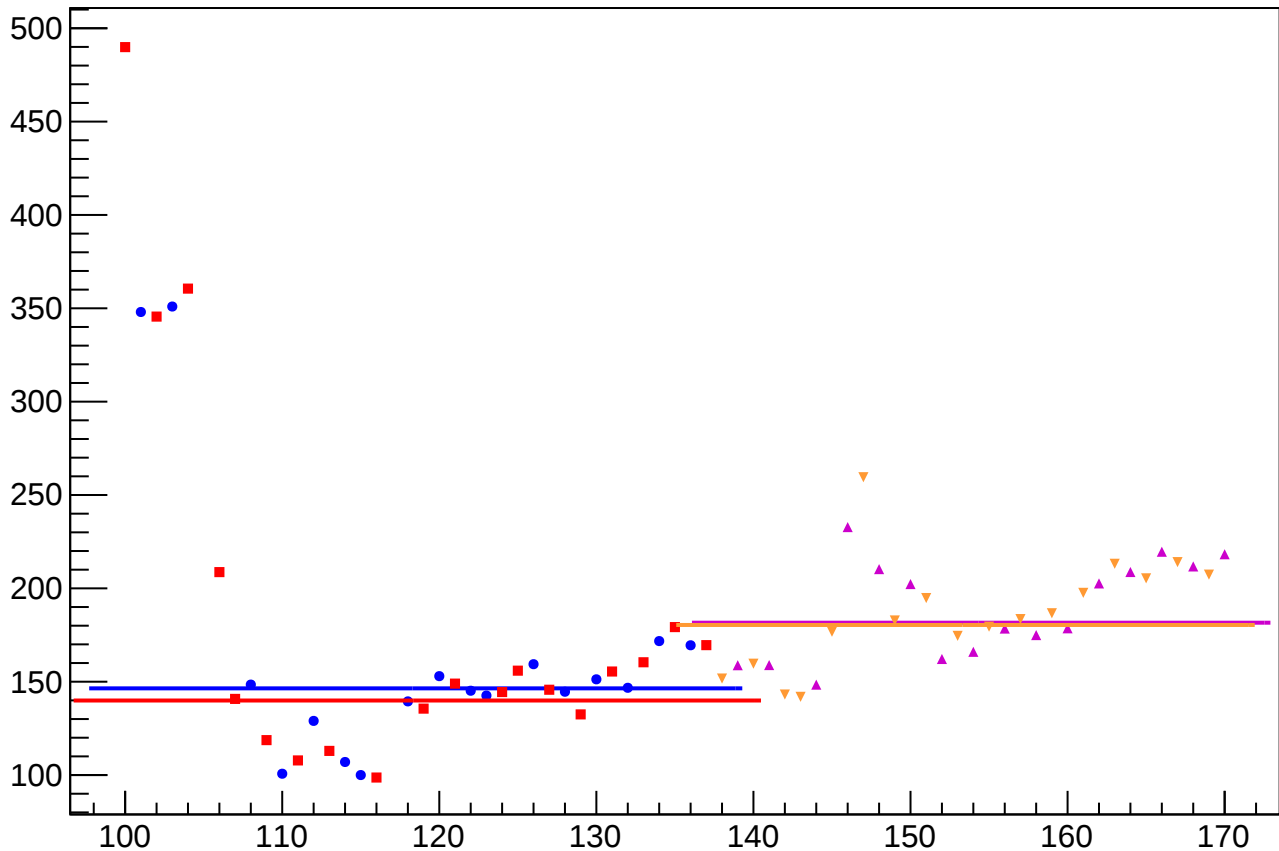
Out: 127907.781 $\pm$ 0.038

χ^2 /NDF: 2042201133.2/3

All: 127749.886 $\pm$ 0.027

χ^2 /NDF: 417453097.7/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 180.389 $\pm$ 0.037 χ^2 /NDF: 515998.3/16

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 181.605 $\pm$ 0.037 χ^2 /NDF: 457047.3/15

Left: 180.990 $\pm$ 0.026 χ^2 /NDF: 973592.0/32

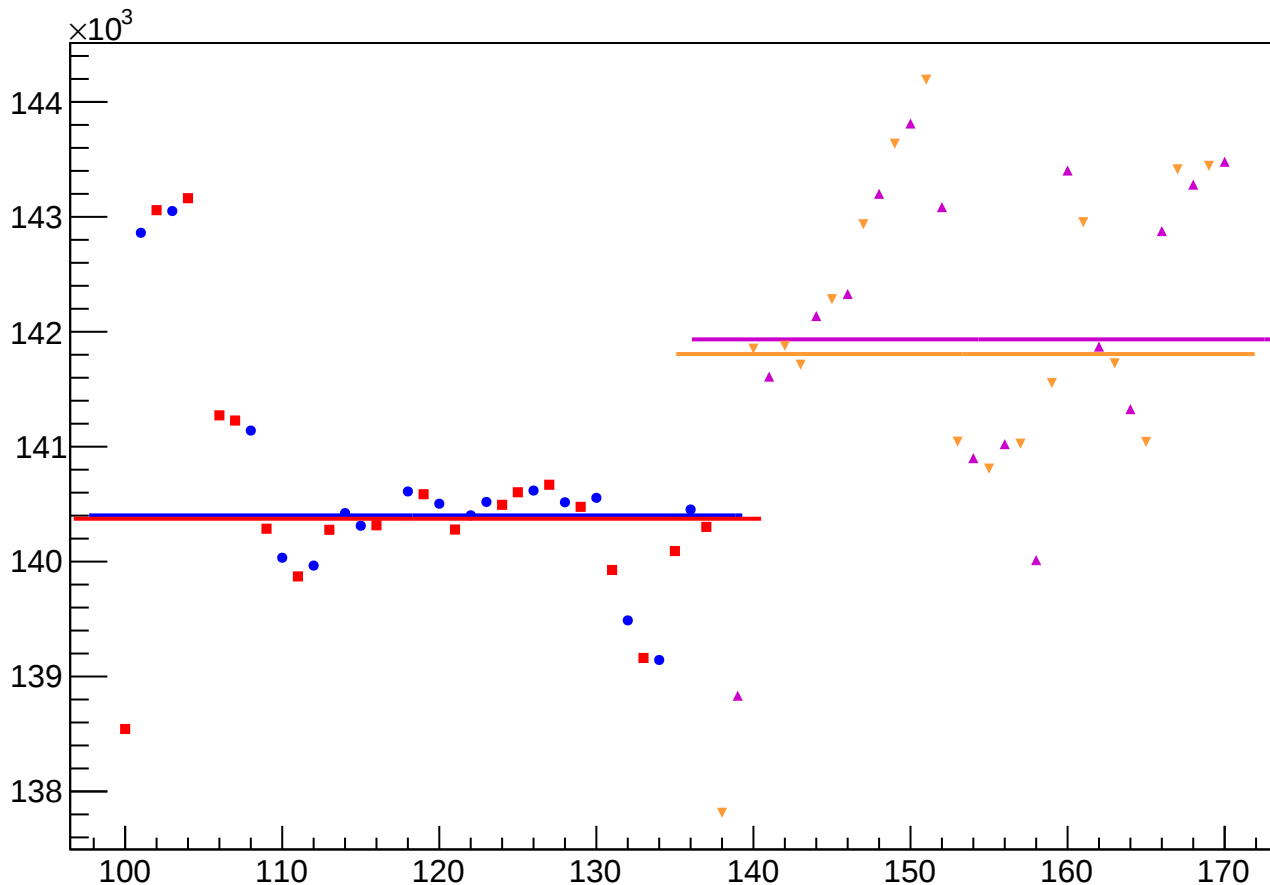
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 166.458 $\pm$ 0.028 χ^2 /NDF: 1910781.0/32

Out: 161.803 $\pm$ 0.027 χ^2 /NDF: 2282144.0/35

All: 164.042 $\pm$ 0.019 χ^2 /NDF: 4207350.3/68

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 141869.541 $\pm$ 0.042

χ^2 /NDF: 1210071218.3/3

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

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

In: 141219.200 $\pm$ 0.044

χ^2 /NDF: 929784472.4/32

Out: 141090.953 $\pm$ 0.042

χ^2 /NDF: 1055413783.8/3

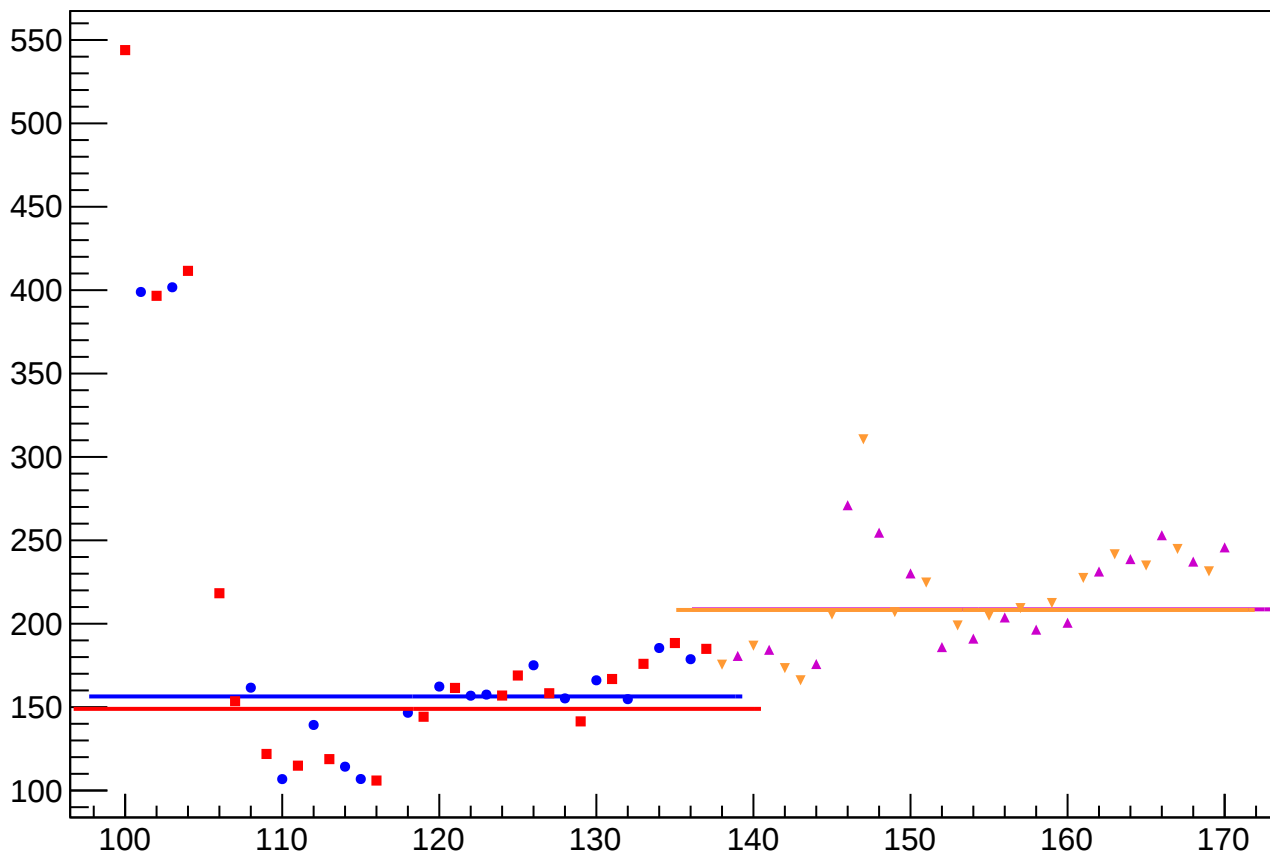
Left In: 141933.755 $\pm$ 0.060

χ^2 /NDF: 539409670.7/15

All: 141152.600 $\pm$ 0.030

χ^2 /NDF: 198962014

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: 208.620 $\pm$ 0.043 χ^2 /NDF: 442059.0/15

Left: 208.437 $\pm$ 0.030 χ^2 /NDF: 913723.5/32

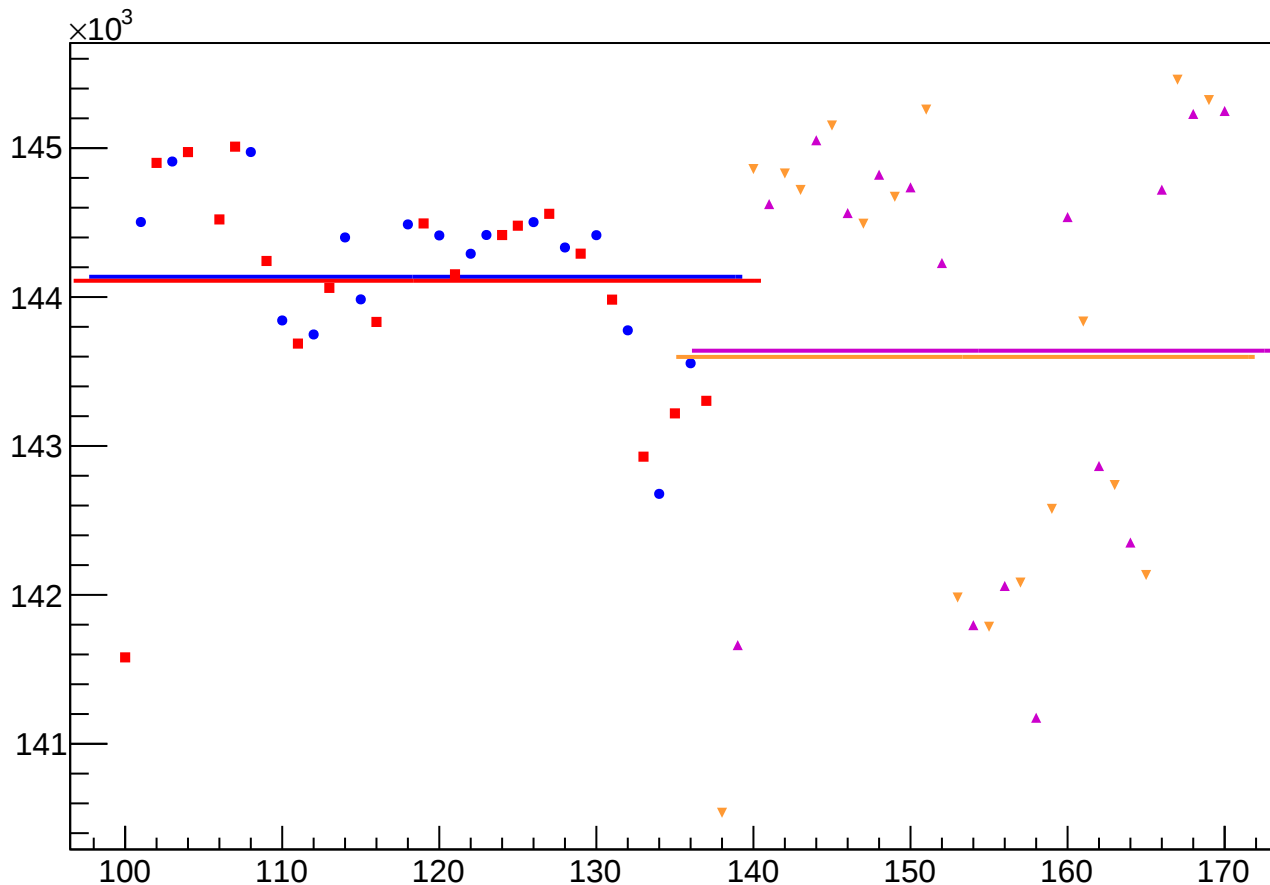
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 184.257 $\pm$ 0.031 χ^2 /NDF: 2299741.0/32

Out: 178.654 $\pm$ 0.030 χ^2 /NDF: 2762885.6/35

All: 181.347 $\pm$ 0.022 χ^2 /NDF: 5079501.6/68

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143618.584 $\pm$ 0.042

χ^2 /NDF: 1292670984.4/3

Left Out: 143597.925 $\pm$ 0.059

χ^2 /NDF: 704600580.9/16

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

In: 143861.842 $\pm$ 0.045

χ^2 /NDF: 665433323.1/32

Out: 143843.161 $\pm$ 0.043

χ^2 /NDF: 805439356.4/35

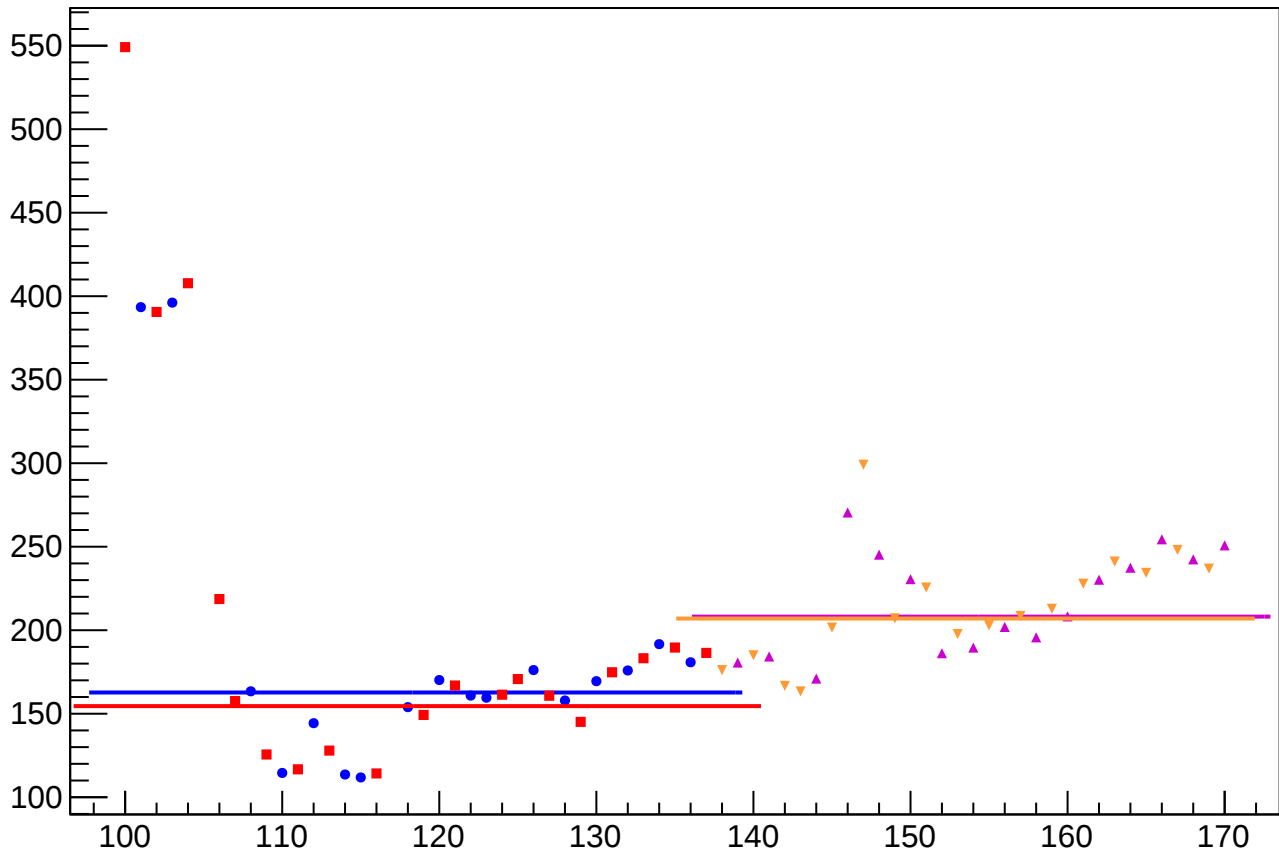
Left In: 143639.739 $\pm$ 0.060

χ^2 /NDF: 587825381.9/15

All: 143852.112 $\pm$ 0.031

χ^2 /NDF: 147096379

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: 208.153 $\pm$ 0.042 χ^2 /NDF:465325.8/15

Left: 207.569 $\pm$ 0.030 χ^2 /NDF: 961489.7/32

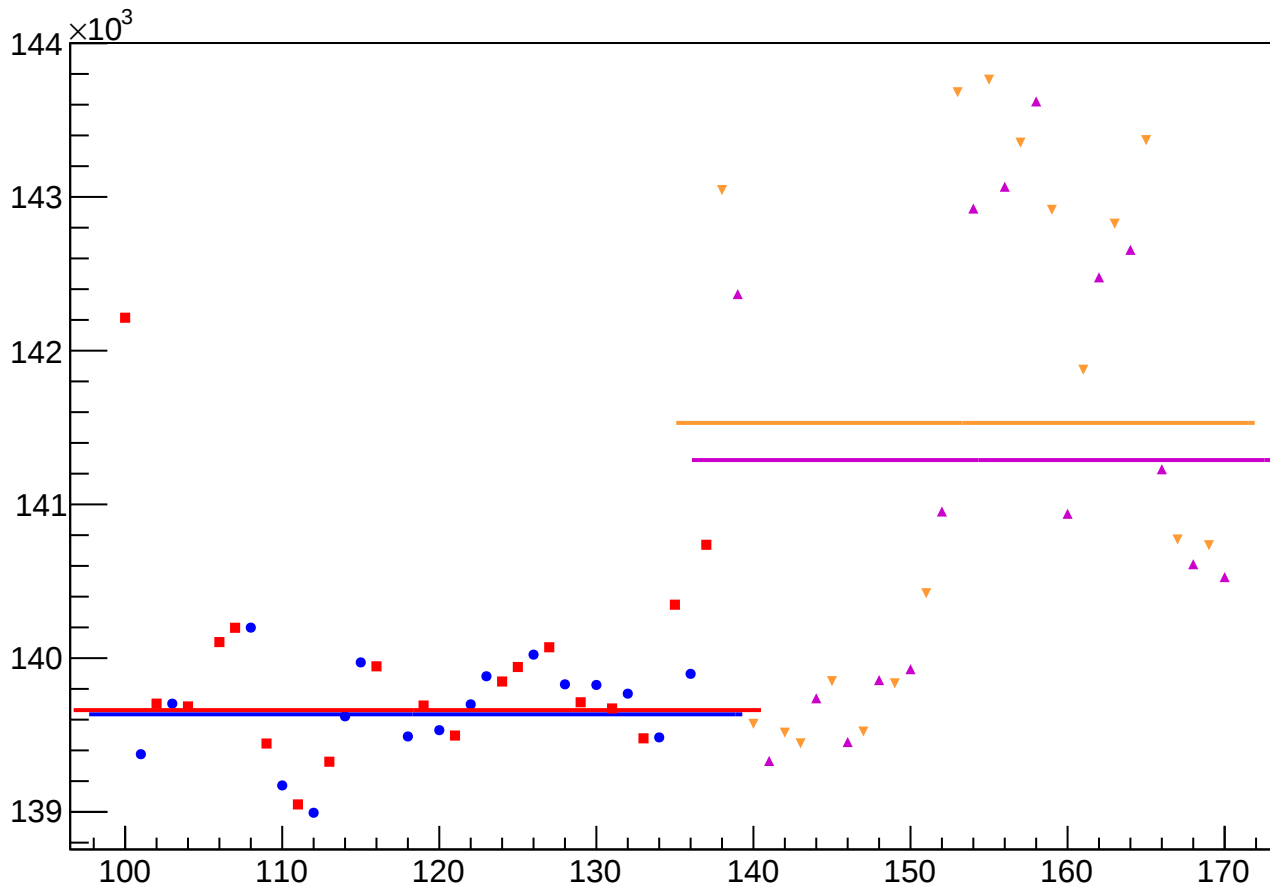
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 187.821 $\pm$ 0.032 χ^2 /NDF:2043607.8/32

Out: 181.851 $\pm$ 0.030 χ^2 /NDF:2461595.0/35

All: 184.712 $\pm$ 0.022 χ^2 /NDF: 4523818.1/68

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068

χ^2/NDF : 24844912.0/16

Left: 141409.329+/-0.044

χ^2/NDF : 1252045597.7/3

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: 140536.392+/-0.046

χ^2/NDF : 874986292.8/32

Out: 140612.999+/-0.044

χ^2/NDF : 1204416076.8/3

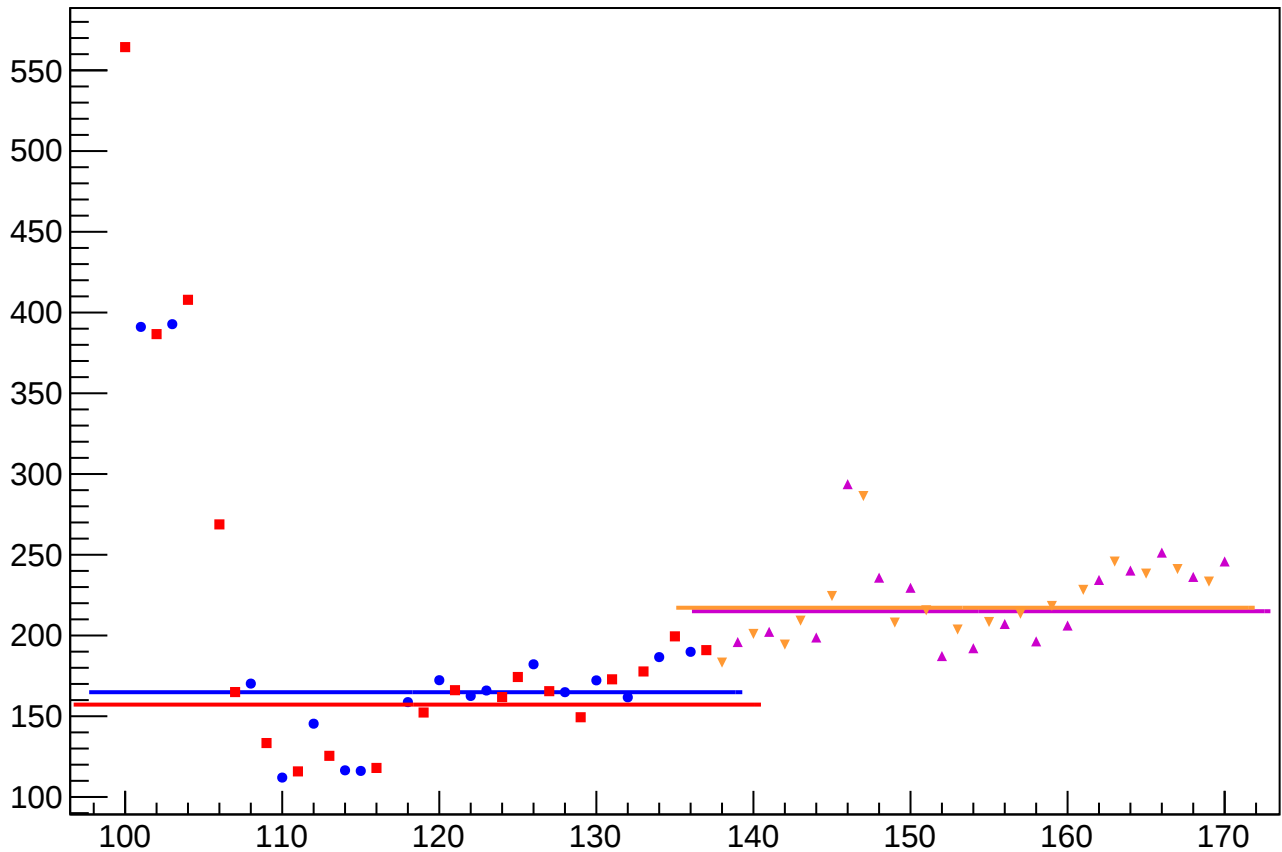
Left In: 141288.496+/-0.062

χ^2/NDF : 525514040.6/15

All: 140576.006+/-0.032

χ^2/NDF : 208085506.0/100

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: 215.035 $\pm$ 0.044 χ^2 /NDF: 323699.3/15

Left: 216.117 $\pm$ 0.031 χ^2 /NDF: 558595.1/32

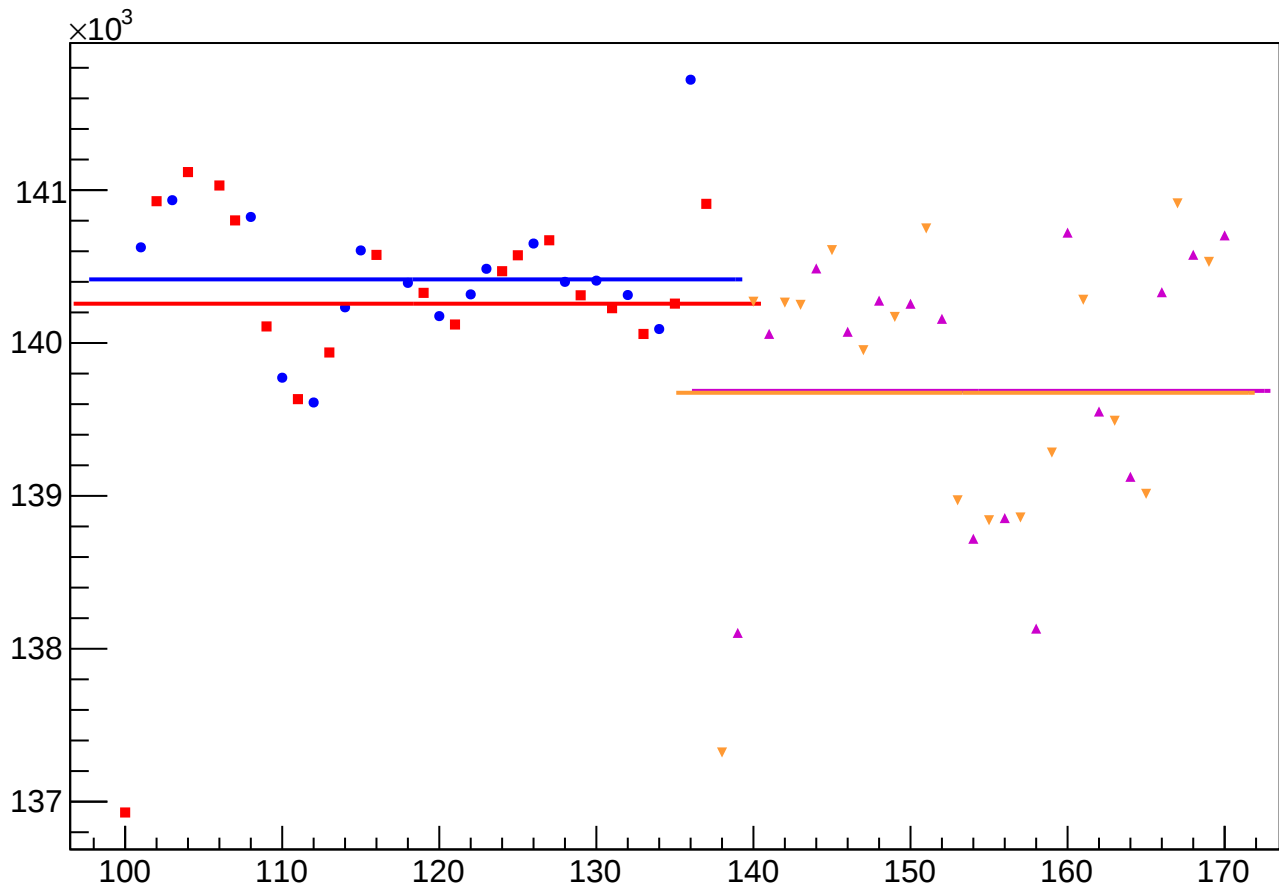
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 192.228 $\pm$ 0.032 χ^2 /NDF: 1987018.7/32

Out: 187.746 $\pm$ 0.031 χ^2 /NDF: 2400820.8/35

All: 189.910 $\pm$ 0.022 χ^2 /NDF: 4397783.6/68

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: 139686.861 ± 0.059 $\chi^2/\text{NDF}: 237472891.6/15$

Left: 139680.567 ± 0.041 $\chi^2/\text{NDF}: 517602641.3/32$

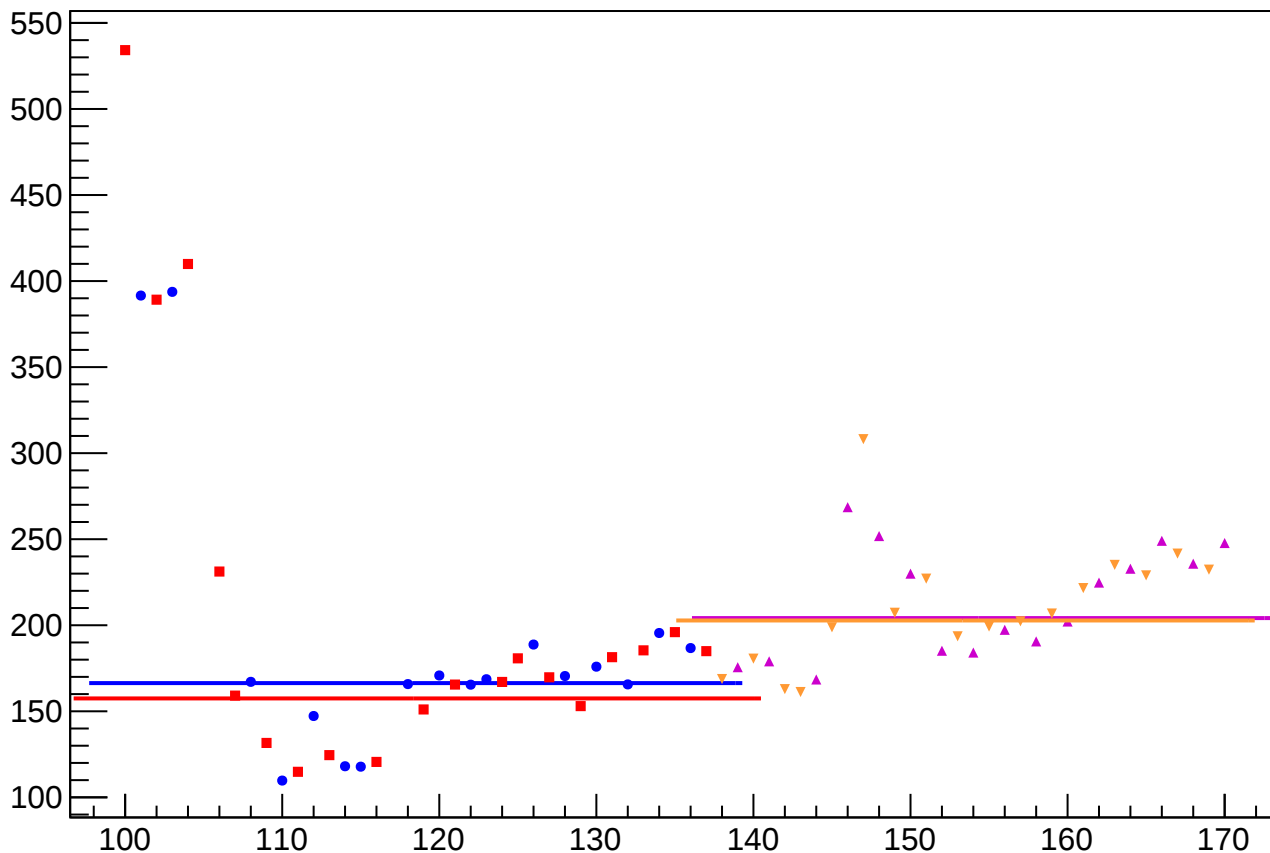
Right: 140330.188 ± 0.046 $\chi^2/\text{NDF}: 110959487.0/3$

In: 139997.529 ± 0.045 $\chi^2/\text{NDF}: 372693280.2/32$

Out: 139941.854 ± 0.043 $\chi^2/\text{NDF}: 364215568.6/35$

All: 139968.507 ± 0.031 $\chi^2/\text{NDF}: 737719638$

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: 204.162 $\pm$ 0.042 χ^2/NDF : 502580.6/15

Left: 203.461 $\pm$ 0.029 χ^2/NDF : 1045275.2/32

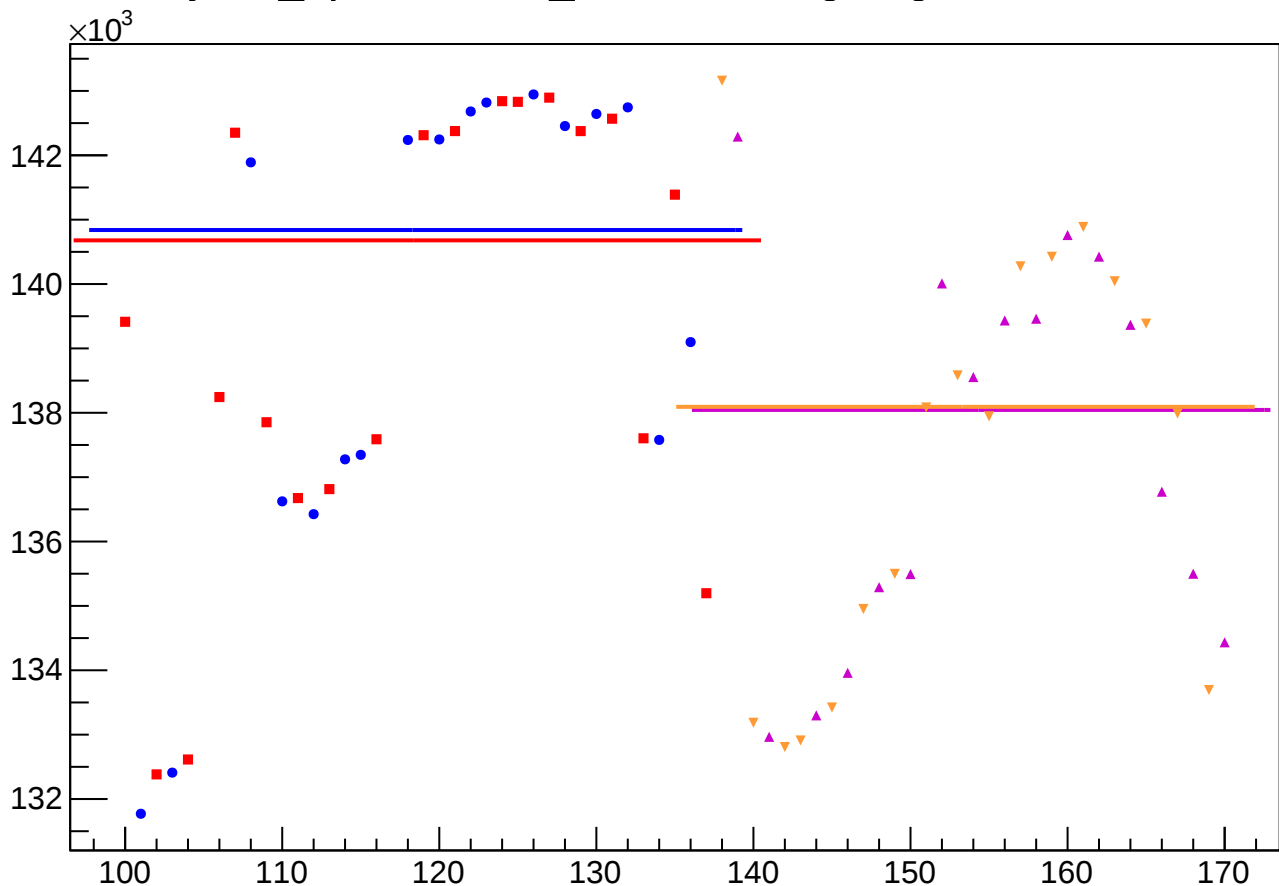
Right: 161.576 $\pm$ 0.033 χ^2/NDF : 2329186.5/35

In: 188.068 $\pm$ 0.032 χ^2/NDF : 1933702.2/32

Out: 181.982 $\pm$ 0.030 χ^2/NDF : 2328951.2/35

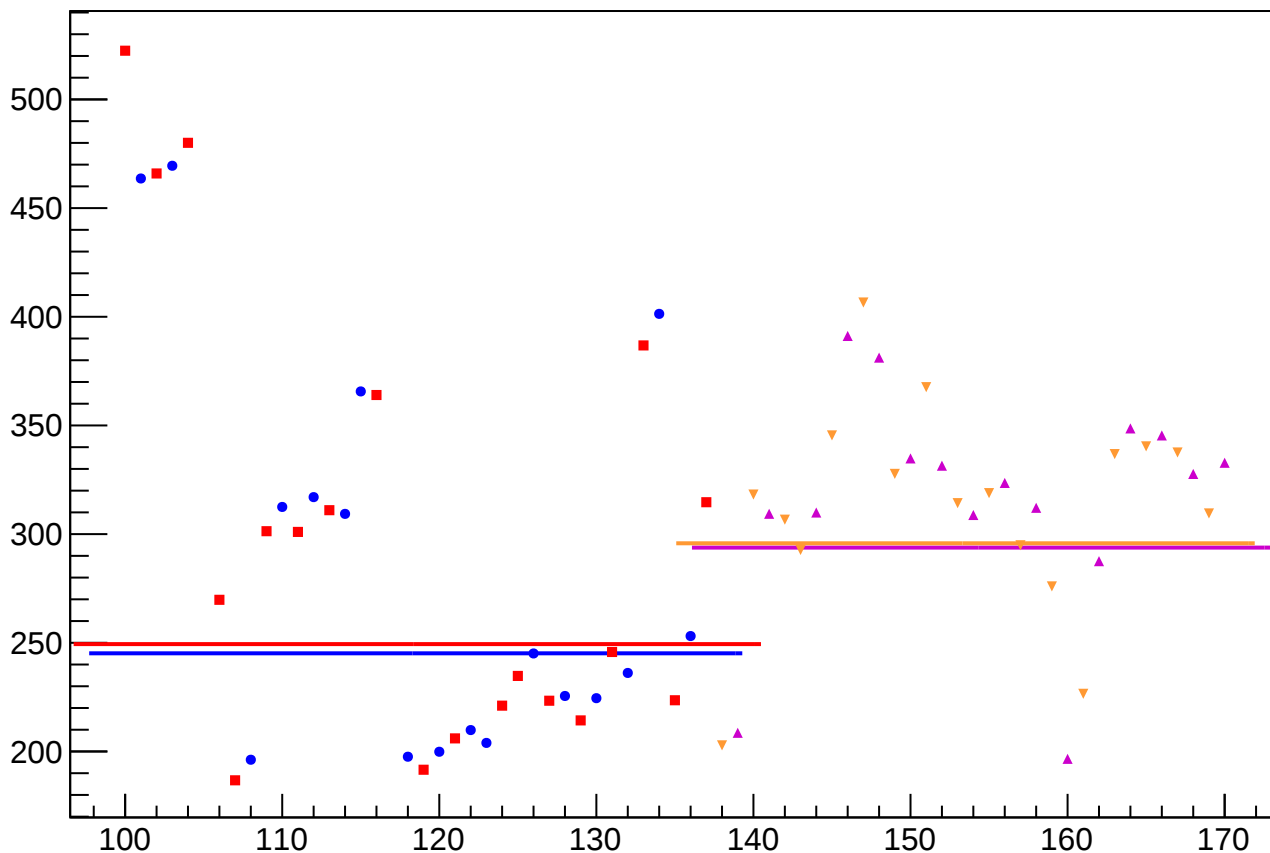
All: 184.896 $\pm$ 0.022 χ^2/NDF : 4282030.8/68

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2 /NDF: 822682996.3/16	Left: 138068.519 $\pm$ 0.061	χ^2 /NDF: 2835912349.4/3
Left Out: 138092.429 $\pm$ 0.086	χ^2 /NDF: 1563791113.3/16	Right: 140758.088 $\pm$ 0.070	χ^2 /NDF: 1664679717.2/
Right Out: 140678.513 $\pm$ 0.099	χ^2 /NDF: 840695274.4/18	In: 139234.402 $\pm$ 0.065	χ^2 /NDF: 2543022684.4/32
Left In: 138044.398 $\pm$ 0.086	χ^2 /NDF: 1271965035.8/15	Out: 139199.575 $\pm$ 0.065	χ^2 /NDF: 2793926767.8/3
		All: 139216.876 $\pm$ 0.046	χ^2 /NDF: 533709276

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: 293.798 $\pm$ 0.061 χ^2/NDF : 946059.2/15

Left: 294.793 $\pm$ 0.043 χ^2/NDF : 1707370.2/32

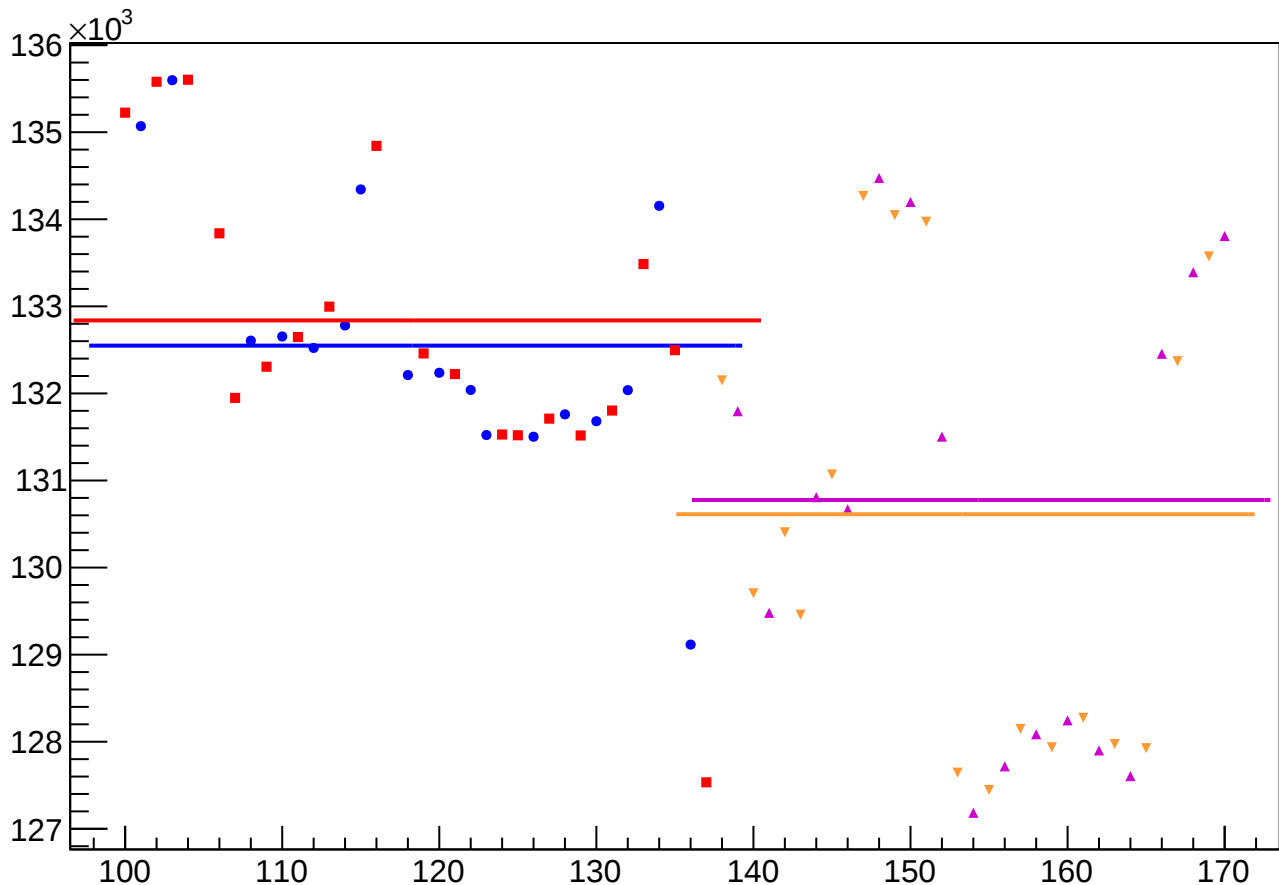
Right: 247.297 $\pm$ 0.050 χ^2/NDF : 1881034.9/35

In: 273.087 $\pm$ 0.046 χ^2/NDF : 2087169.3/32

Out: 275.923 $\pm$ 0.046 χ^2/NDF : 2021070.9/35

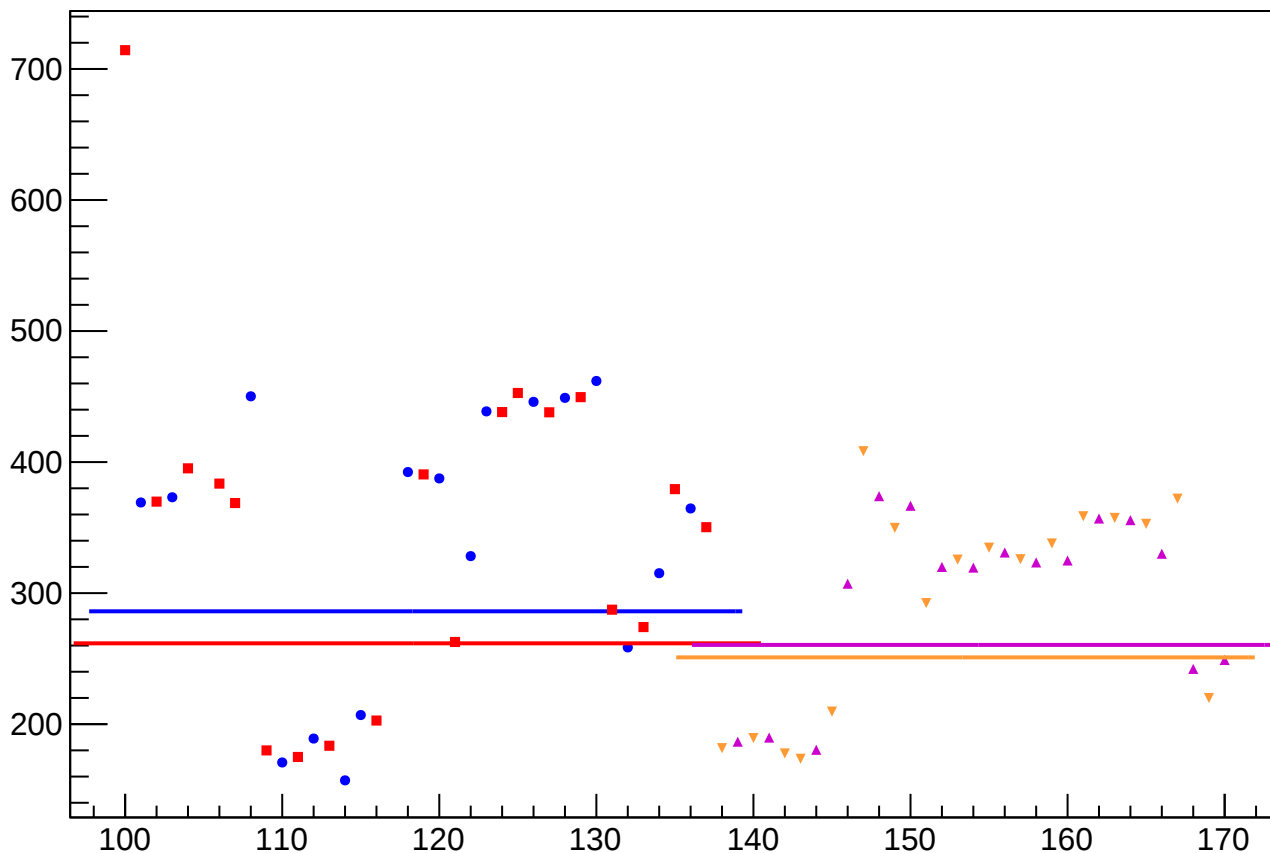
All: 274.514 $\pm$ 0.033 χ^2/NDF : 4110140.1/68

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119	χ^2/NDF : 161115079.9/16	Left: 130691.562 $\pm$ 0.054	χ^2/NDF : 1646615273.9/3
Left Out: 130612.494 $\pm$ 0.075	χ^2/NDF : 834146106.7/16	Right: 132709.226 $\pm$ 0.080	χ^2/NDF : 313982981.1/3
Right Out: 132838.294 $\pm$ 0.107	χ^2/NDF : 149611447.6/18	In: 131299.909 $\pm$ 0.065	χ^2/NDF : 1126636345.6/32
Left In: 130776.246 $\pm$ 0.077	χ^2/NDF : 810148054.5/15	Out: 131340.761 $\pm$ 0.061	χ^2/NDF : 1274348028.7/3
		All: 131321.506 $\pm$ 0.045	χ^2/NDF : 240119396

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 250.967 $\pm$ 0.053 χ^2 /NDF:2130811.4/16

Right Out: 261.686 $\pm$ 0.076 χ^2 /NDF: 1623174.1/18

Left In: 260.477 $\pm$ 0.055 χ^2 /NDF:1647867.1/15

Left: 255.559 $\pm$ 0.038 χ^2 /NDF: 3794335.1/32

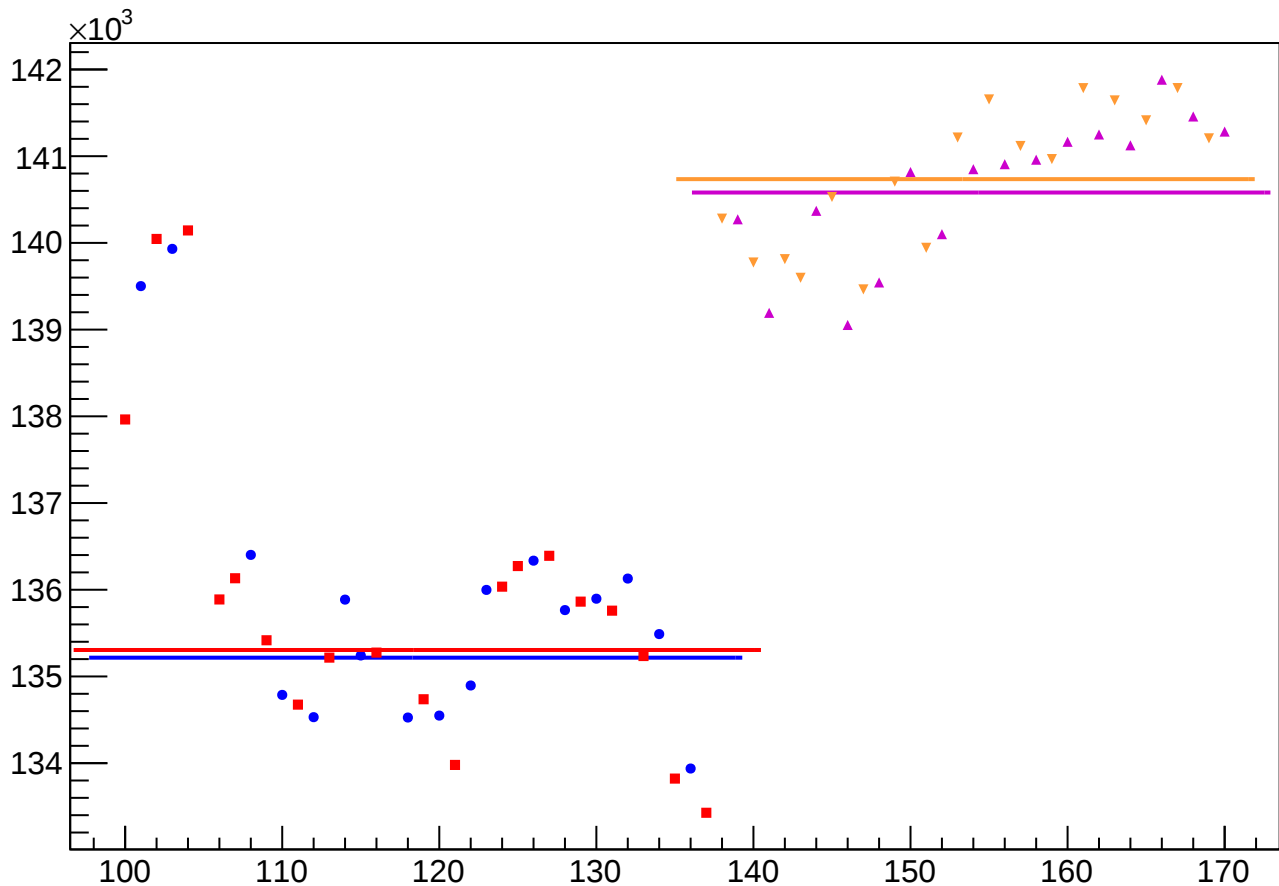
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 268.053 $\pm$ 0.046 χ^2 /NDF:3238173.7/32

Out: 254.474 $\pm$ 0.043 χ^2 /NDF:3767465.0/35

All: 260.874 $\pm$ 0.031 χ^2 /NDF: 7051949.7/68

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: 140580.881 $\pm$ 0.056 χ^2/NDF : 172299271.5/15

Left: 140660.964 $\pm$ 0.039 χ^2/NDF : 374187551.5/32

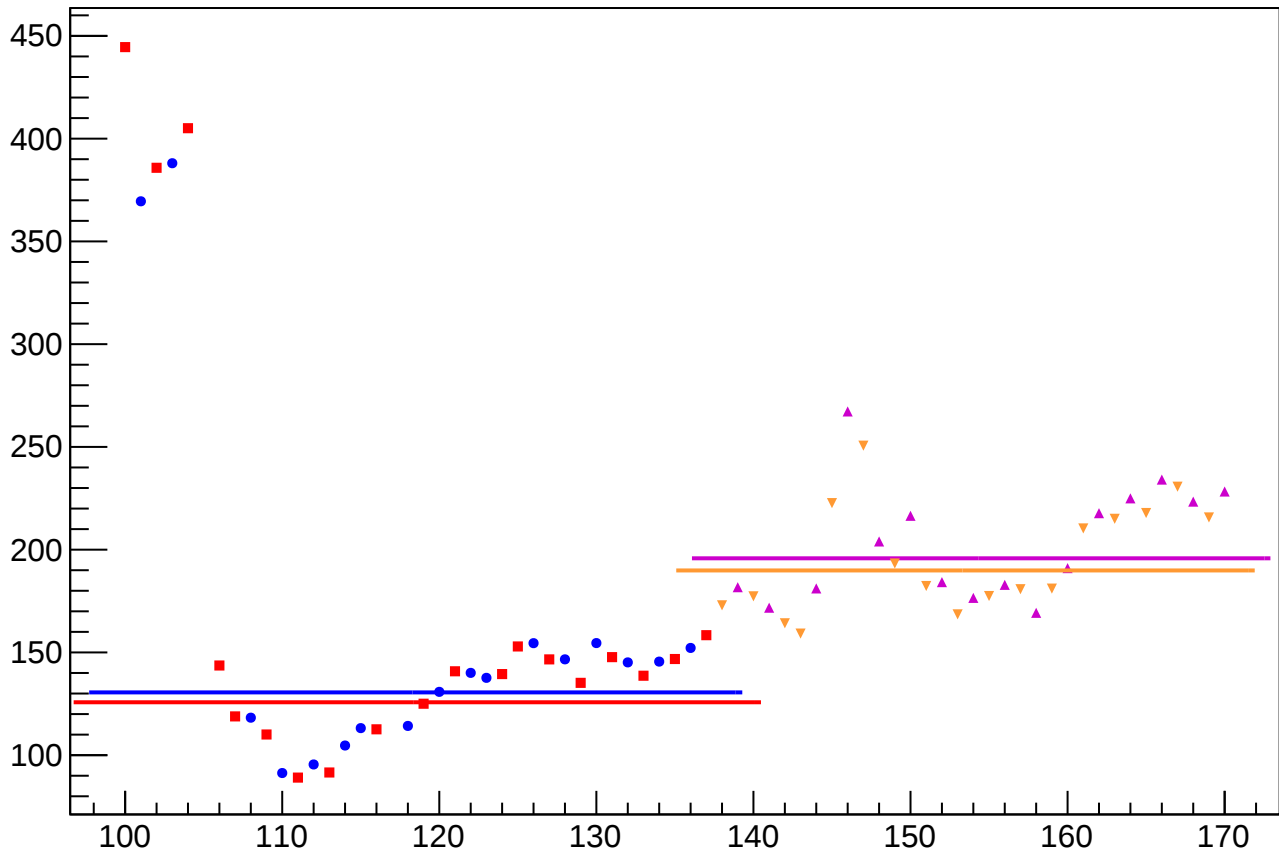
Right: 135263.557 $\pm$ 0.037 χ^2/NDF : 730392205.8/32

In: 137797.481 $\pm$ 0.039 χ^2/NDF : 5229479143.6/32

Out: 137853.154 $\pm$ 0.037 χ^2/NDF : 5845828268.2/32

All: 137826.698 $\pm$ 0.027 χ^2/NDF : 110763684.0/64

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 ± 0.038 χ^2/NDF : 1373104.9/16

Left Out: 189.891 ± 0.038 χ^2/NDF : 378336.9/16

Right Out: 125.746 ± 0.036 χ^2/NDF : 1440002.5/18

Left In: 195.797 ± 0.040 χ^2/NDF : 371856.8/15

Left: 192.735 ± 0.028 χ^2/NDF : 761548.0/32

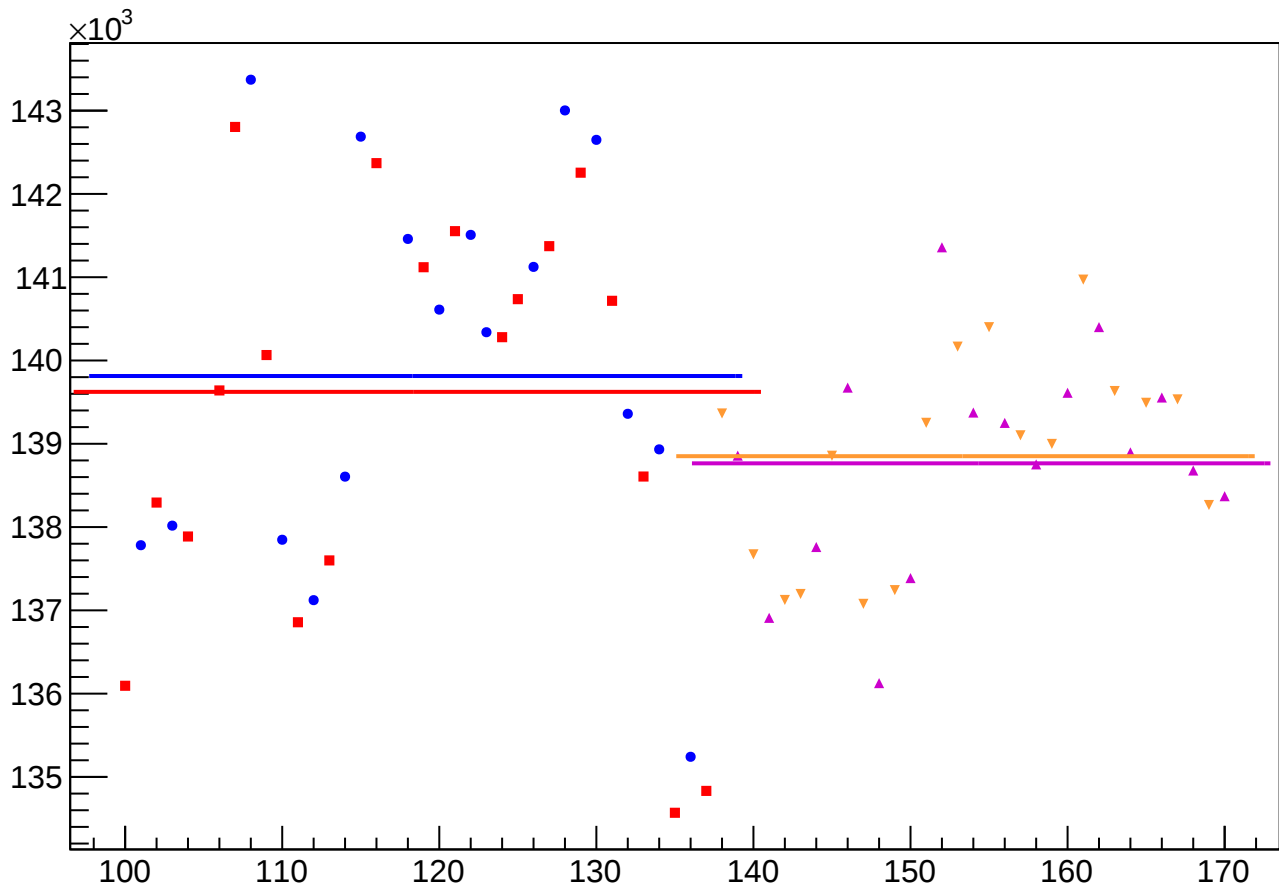
Right: 128.002 ± 0.026 χ^2/NDF : 2821400.9/35

In: 161.943 ± 0.028 χ^2/NDF : 3131389.0/32

Out: 155.845 ± 0.026 χ^2/NDF : 3294739.0/35

All: 158.743 ± 0.019 χ^2/NDF : 6451588.3/68

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2/NDF : 1689865533.6/16

Left: 138808.914 $\pm$ 0.040

χ^2/NDF : 974217721.1/32

Right: 139713.961 $\pm$ 0.043

χ^2/NDF : 3200544274.5/16

Left Out: 138851.065 $\pm$ 0.056

χ^2/NDF : 446500998.3/16

In: 139245.473 $\pm$ 0.042

χ^2/NDF : 2371794493.1/32

Right Out: 139623.387 $\pm$ 0.059

χ^2/NDF : 1505731109.1/18

Out: 139216.096 $\pm$ 0.041

χ^2/NDF : 2042537340.7/3

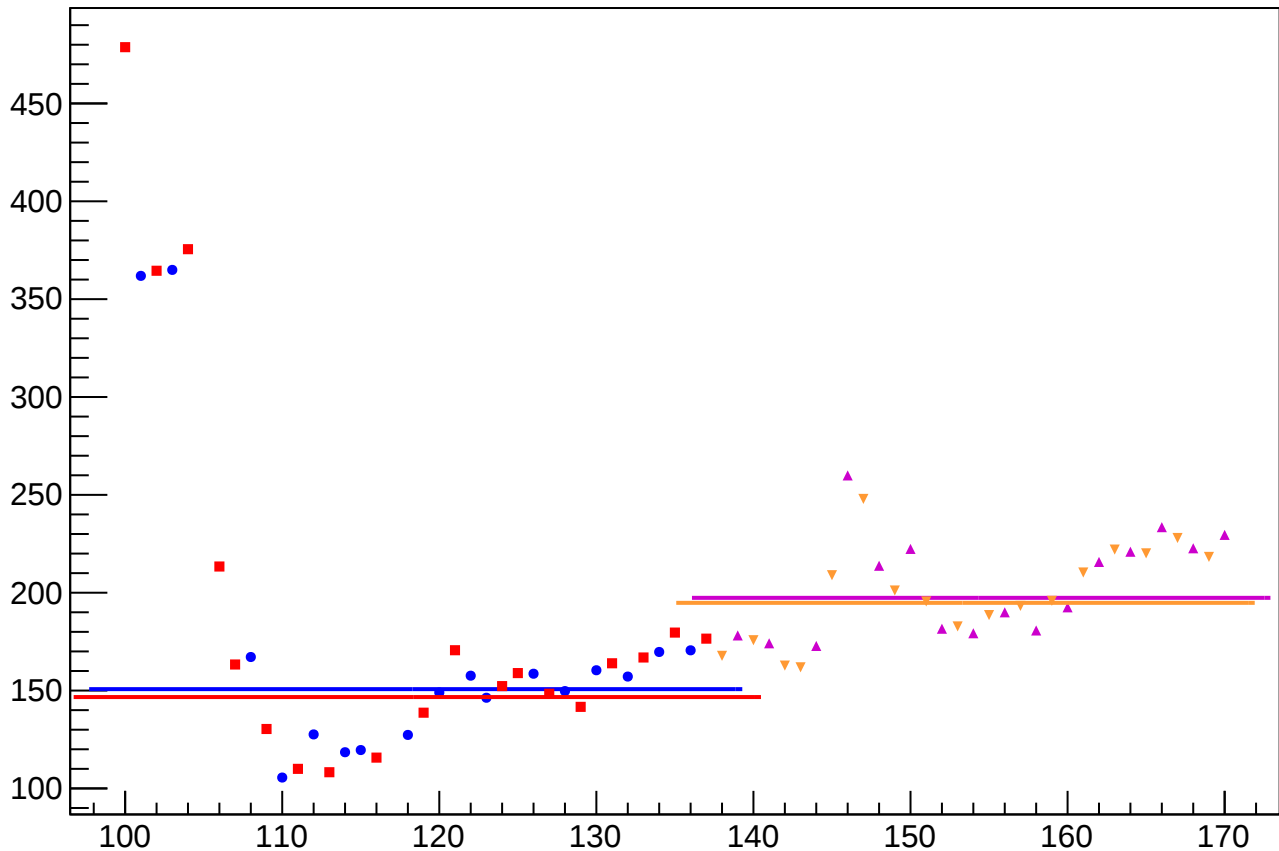
Left In: 138765.149 $\pm$ 0.057

χ^2/NDF : 526556698.0/15

All: 139230.309 $\pm$ 0.029

χ^2/NDF : 441458543.1/16

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733+/-0.044 χ^2/NDF : 1050071.6/16

Left Out: 194.827+/-0.040 χ^2/NDF :324831.3/16

Right Out: 146.686+/-0.042 χ^2/NDF : 1203106.6/18

Left In: 197.383+/-0.040 χ^2/NDF :346825.8/15

Left: 196.081+/-0.028 χ^2/NDF : 673710.8/32

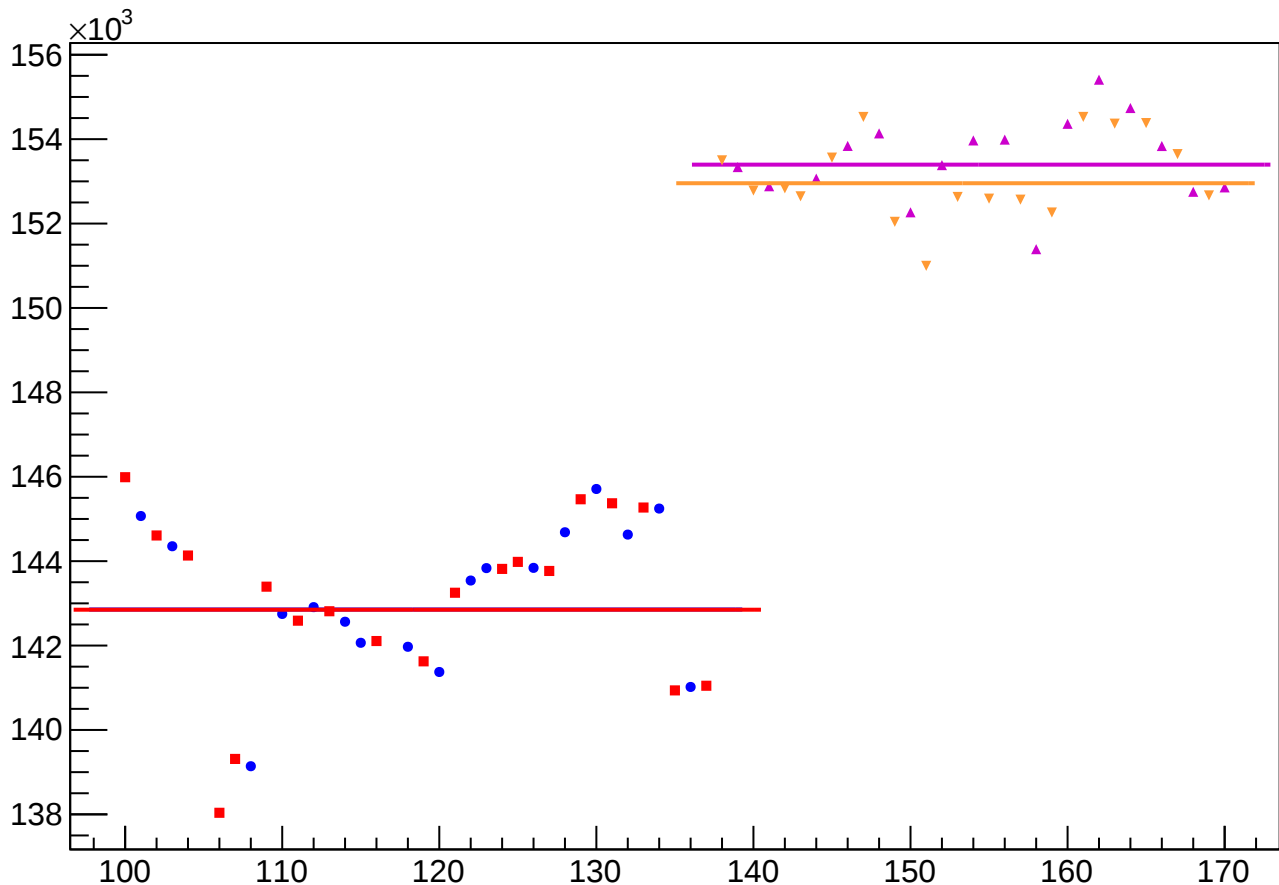
Right: 148.612+/-0.030 χ^2/NDF : 2257655.3/35

In: 176.013+/-0.030 χ^2/NDF :2012010.9/32

Out: 172.073+/-0.029 χ^2/NDF :2229678.8/35

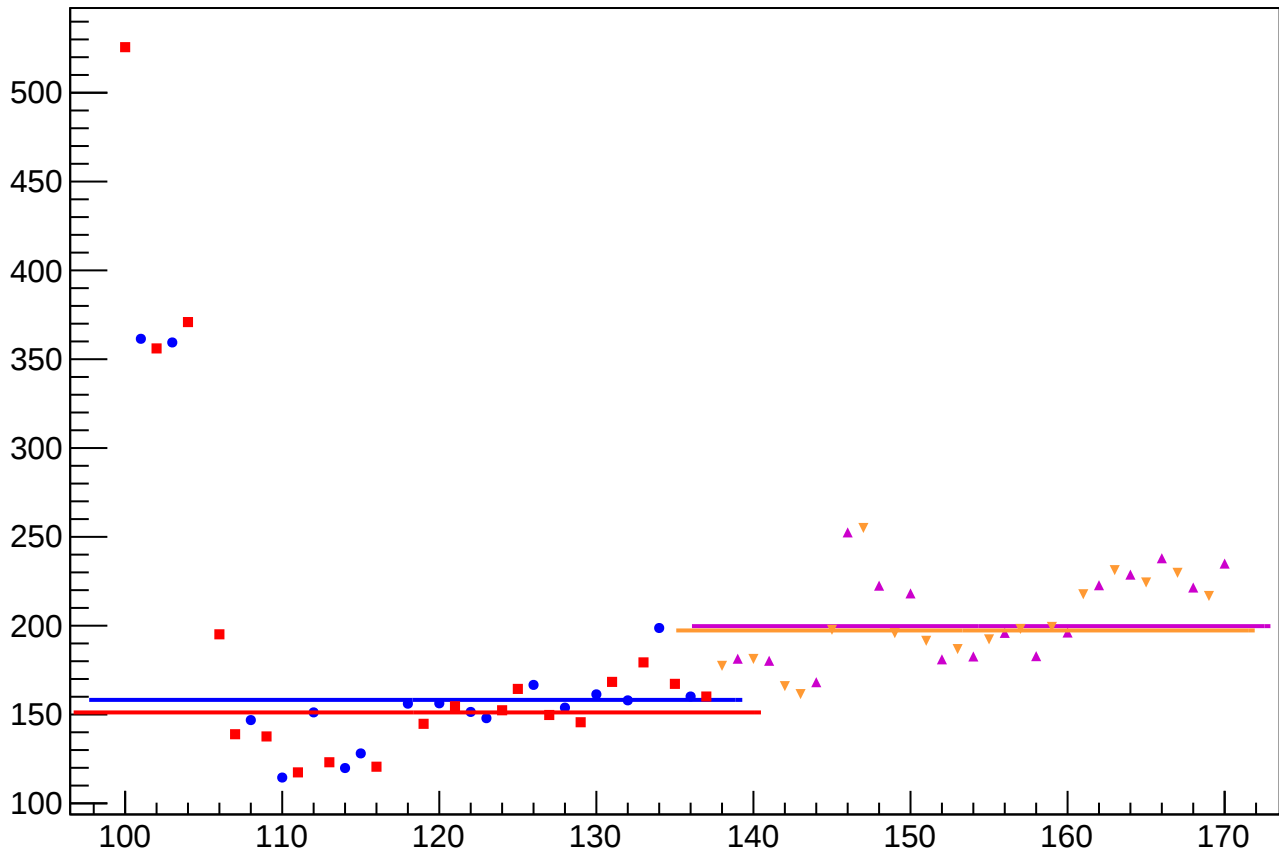
All: 173.979+/-0.021 χ^2/NDF : 4250810.4/68

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153171.906 $\pm$ 0.040	χ^2 /NDF: 560738775.0/32
Left Out: 152955.679 $\pm$ 0.057	χ^2 /NDF: 260583721.4/16	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/32
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 148736.659 $\pm$ 0.043	χ^2 /NDF: 15841684294.3/32
Left In: 153396.226 $\pm$ 0.058	χ^2 /NDF: 270317364.7/15	Out: 148238.745 $\pm$ 0.041	χ^2 /NDF: 16042572736.1/32
		All: 148477.491 $\pm$ 0.030	χ^2 /NDF: 319540812.0/64

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: 199.749+/-0.041 χ^2/NDF : 349919.9/15

Left: 198.512+/-0.029 χ^2/NDF : 666938.4/32

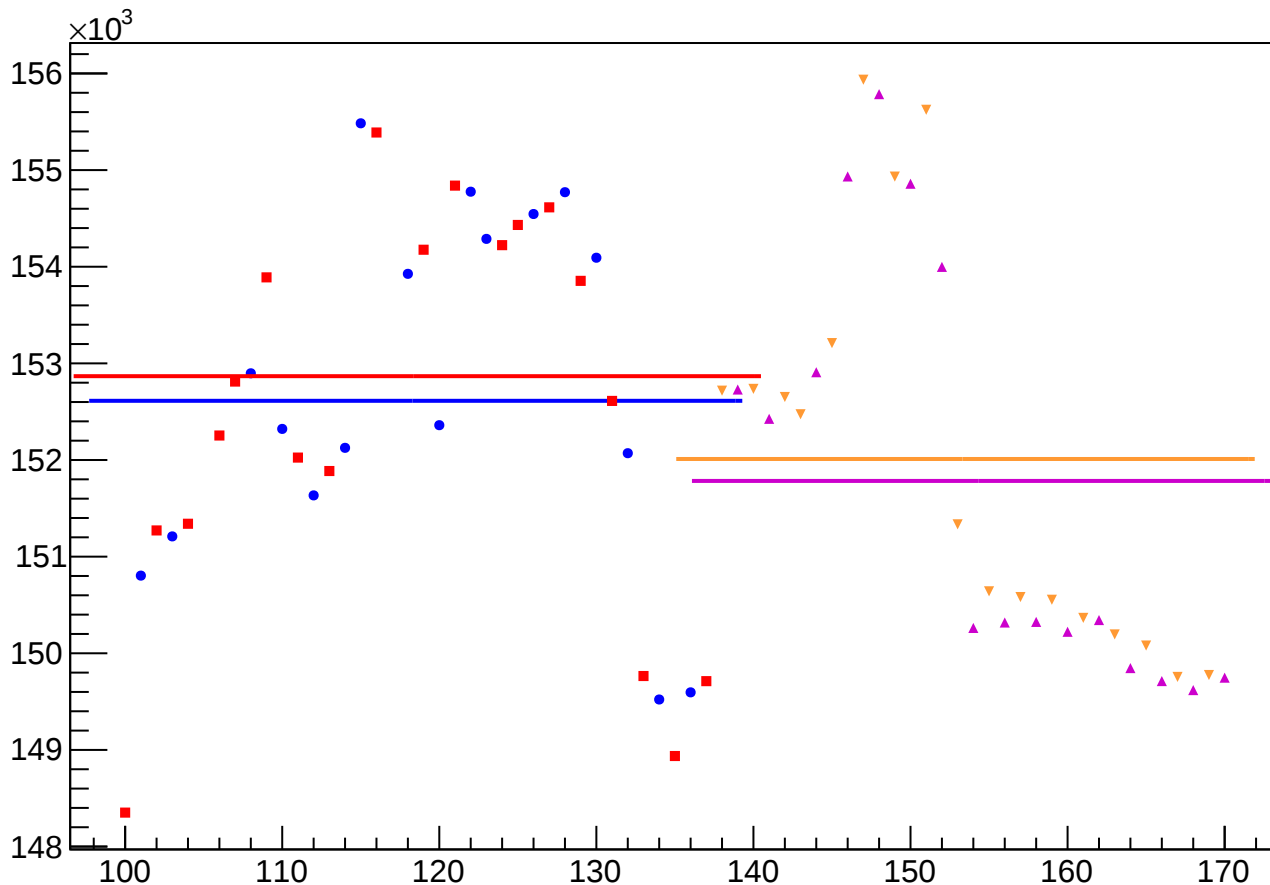
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 181.399+/-0.030 χ^2/NDF : 1693470.7/32

Out: 175.782+/-0.029 χ^2/NDF : 1941101.8/35

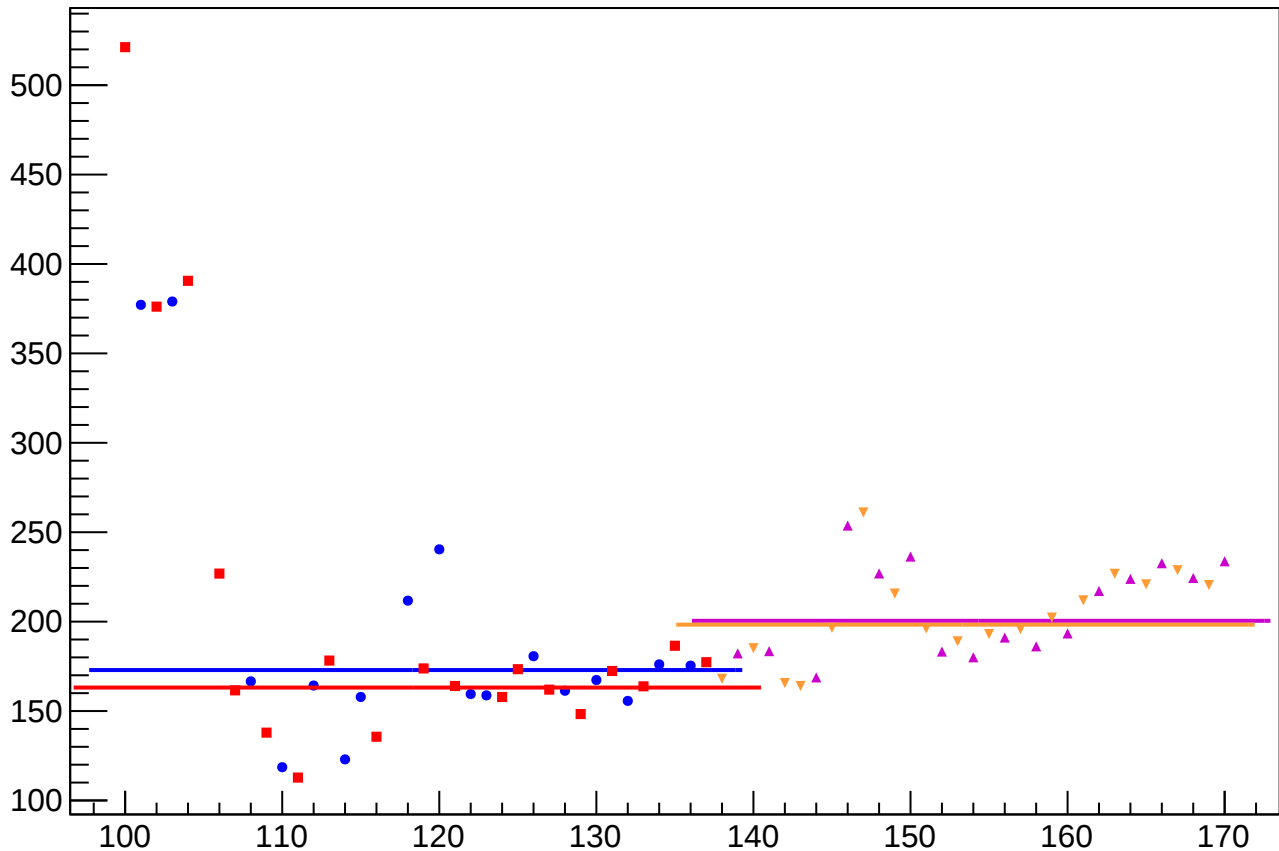
All: 178.475+/-0.021 χ^2/NDF : 3652343.7/68

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2/NDF : 621416187.4/16	Left: 151899.155 $\pm$ 0.040	χ^2/NDF : 2245580632.0/3
Left Out: 152010.597 $\pm$ 0.057	χ^2/NDF : 1082282977.5/16	Right: 152750.957 $\pm$ 0.049	χ^2/NDF : 1347263895.4/3
Right Out: 152867.453 $\pm$ 0.066	χ^2/NDF : 719075986.4/18	In: 152106.320 $\pm$ 0.045	χ^2/NDF : 1857400961.6/32
Left In: 151783.516 $\pm$ 0.058	χ^2/NDF : 1155389720.9/15	Out: 152372.119 $\pm$ 0.043	χ^2/NDF : 1898159113.7/3
		All: 152245.313 $\pm$ 0.031	χ^2/NDF : 377377959

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: 200.464+/-0.041 χ^2/NDF : 361636.2/15

Left: 199.368+/-0.029 χ^2/NDF : 697844.9/32

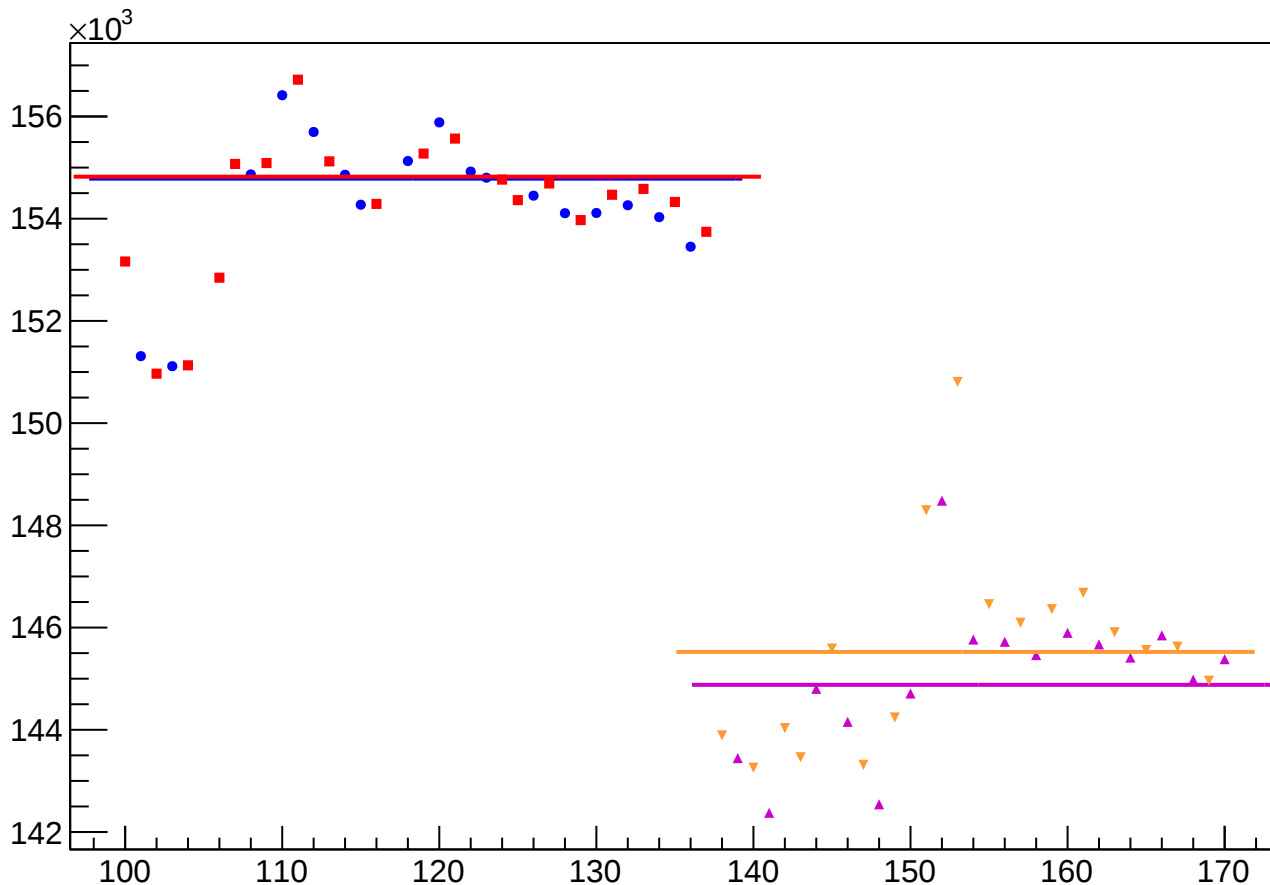
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 189.740+/-0.032 χ^2/NDF : 1481498.7/32

Out: 183.471+/-0.030 χ^2/NDF : 1694747.0/35

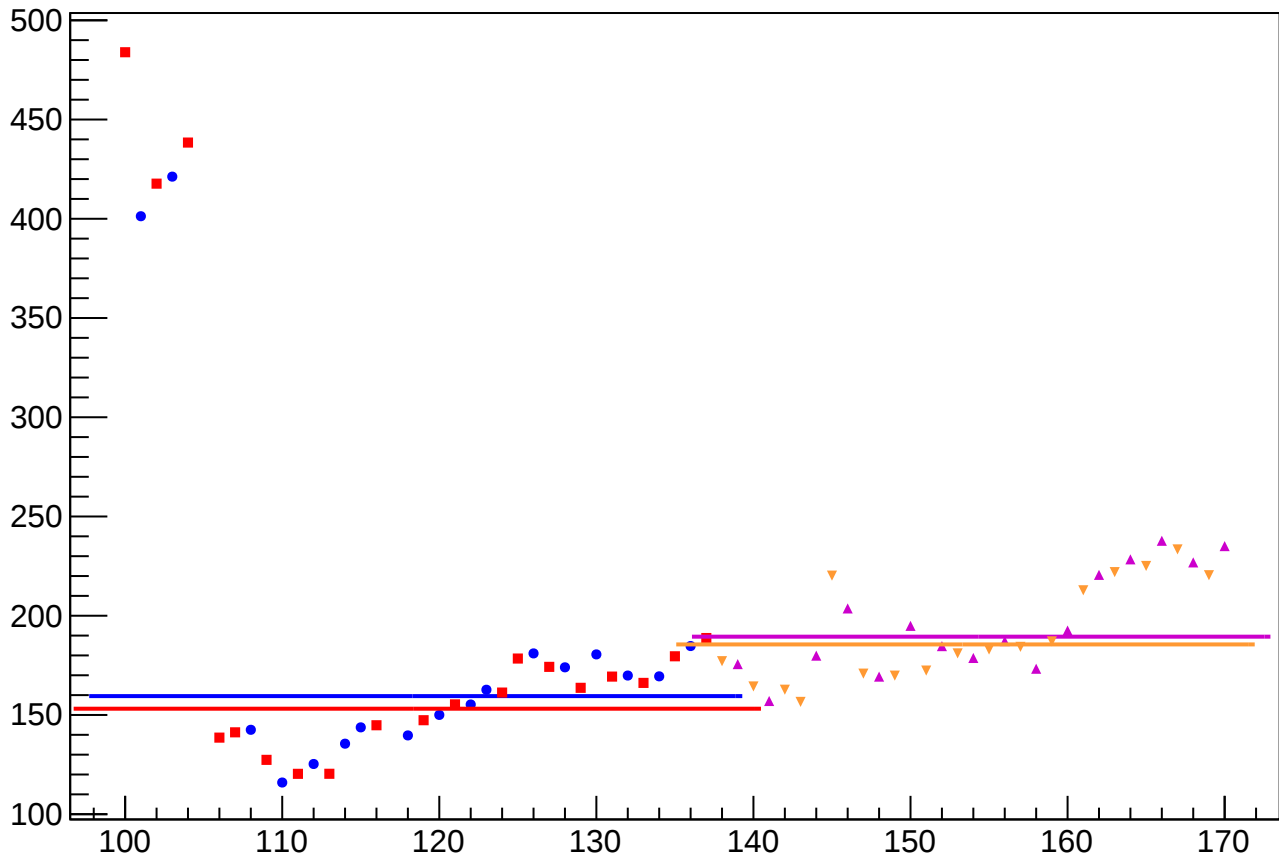
All: 186.462+/-0.022 χ^2/NDF : 3196517.9/68

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145210.549 $\pm$ 0.038	χ^2 /NDF: 2385591767.1/3
Left Out: 145523.919 $\pm$ 0.053	χ^2 /NDF: 1487155573.9/16	Right: 154804.381 $\pm$ 0.045	χ^2 /NDF: 559614489.4/3
Right Out: 154822.113 $\pm$ 0.061	χ^2 /NDF: 293850525.9/18	In: 148925.217 $\pm$ 0.042	χ^2 /NDF: 14671613401.7/3
Left In: 144879.711 $\pm$ 0.054	χ^2 /NDF: 826202318.5/15	Out: 149520.509 $\pm$ 0.040	χ^2 /NDF: 15077755616.1
		All: 149236.399 $\pm$ 0.029	χ^2 /NDF: 298555054

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: 189.450 $\pm$ 0.038 χ^2 /NDF: 352248.2/15

Left: 187.442 $\pm$ 0.027 χ^2 /NDF: 727985.9/32

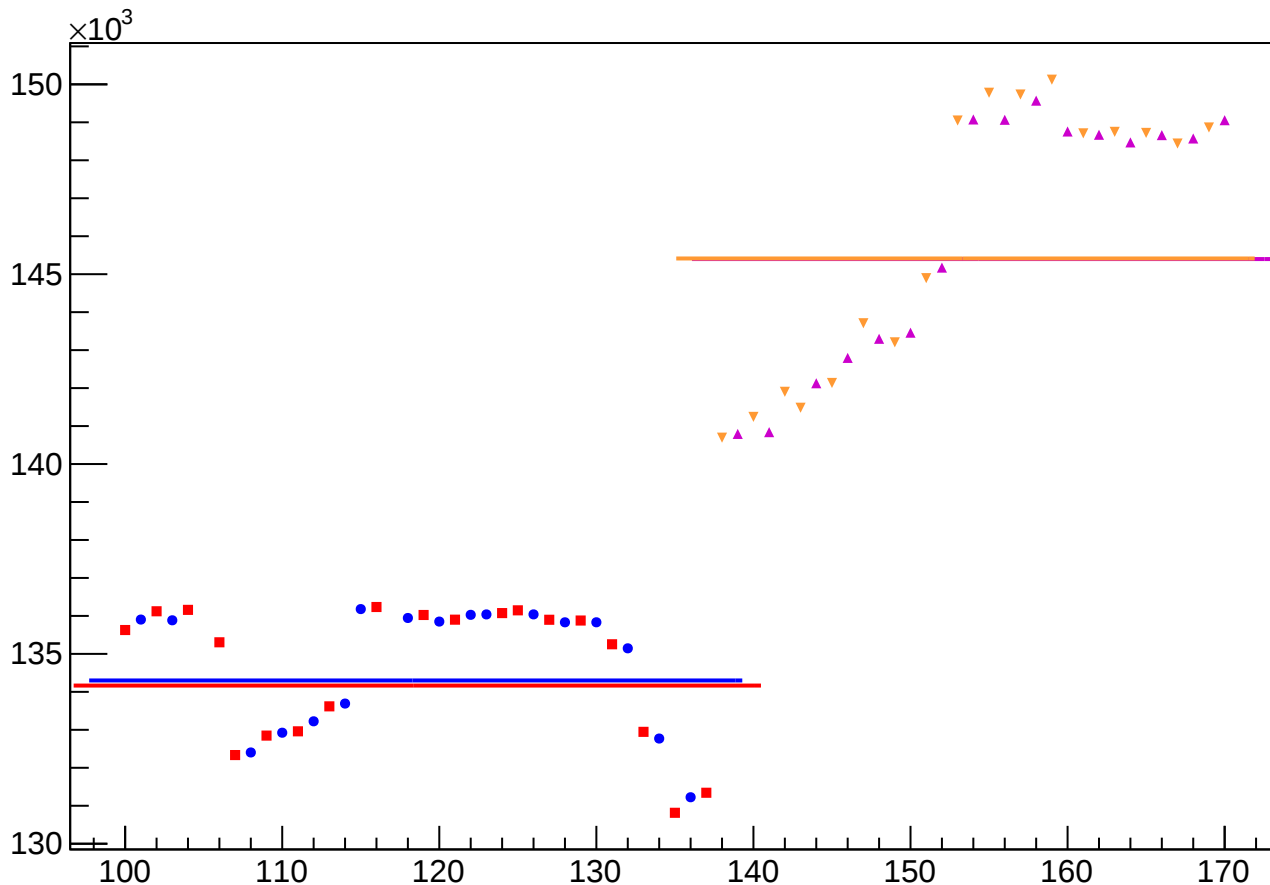
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 177.218 $\pm$ 0.030 χ^2 /NDF: 1732380.3/32

Out: 171.620 $\pm$ 0.028 χ^2 /NDF: 1866808.9/35

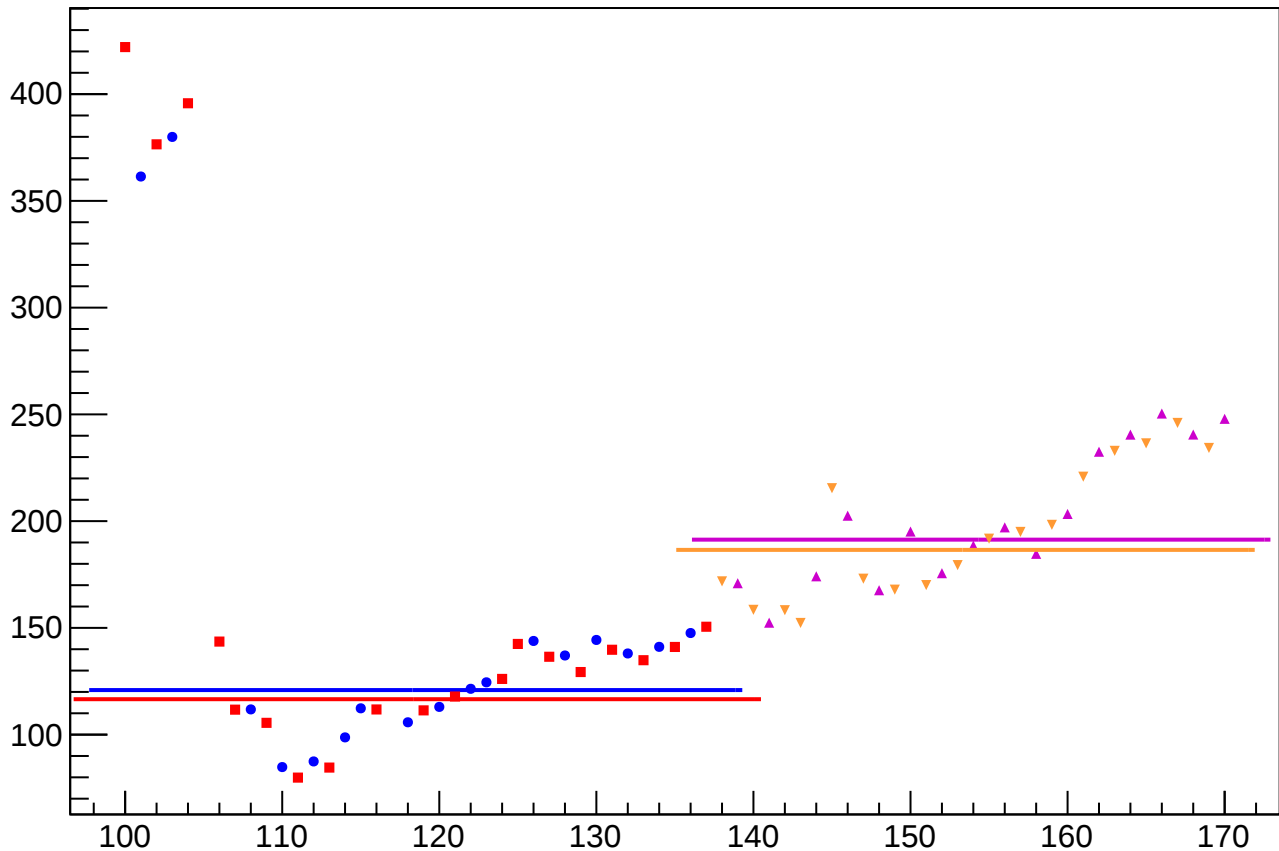
All: 174.292 $\pm$ 0.020 χ^2 /NDF: 3617959.3/68

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145406.399 $\pm$ 0.038	χ^2 /NDF: 8145352902.1/3
Left Out: 145413.741 $\pm$ 0.053	χ^2 /NDF: 4398483263.9/16	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/3
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 139351.144 $\pm$ 0.037	χ^2 /NDF: 27016634099.3/3
Left In: 145398.573 $\pm$ 0.055	χ^2 /NDF: 3746830517.9/15	Out: 139126.738 $\pm$ 0.035	χ^2 /NDF: 30454238973.7/3
		All: 139233.601 $\pm$ 0.026	χ^2 /NDF: 57489974

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: 191.327 $\pm$ 0.039 χ^2 /NDF: 513557.2/15

Left: 188.854 $\pm$ 0.027 χ^2 /NDF: 1061558.6/32

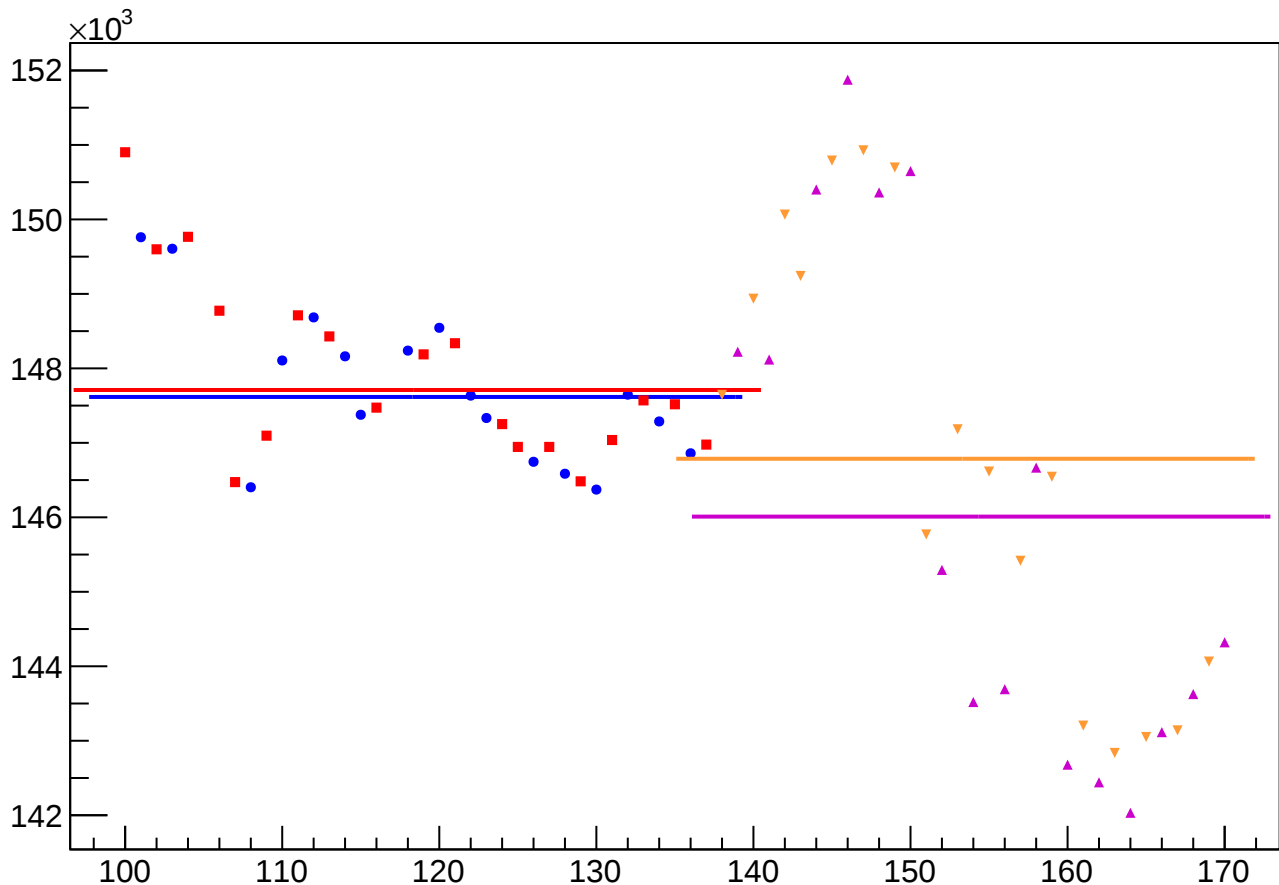
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 152.937 $\pm$ 0.026 χ^2 /NDF: 3760100.8/32

Out: 147.442 $\pm$ 0.025 χ^2 /NDF: 4002550.9/35

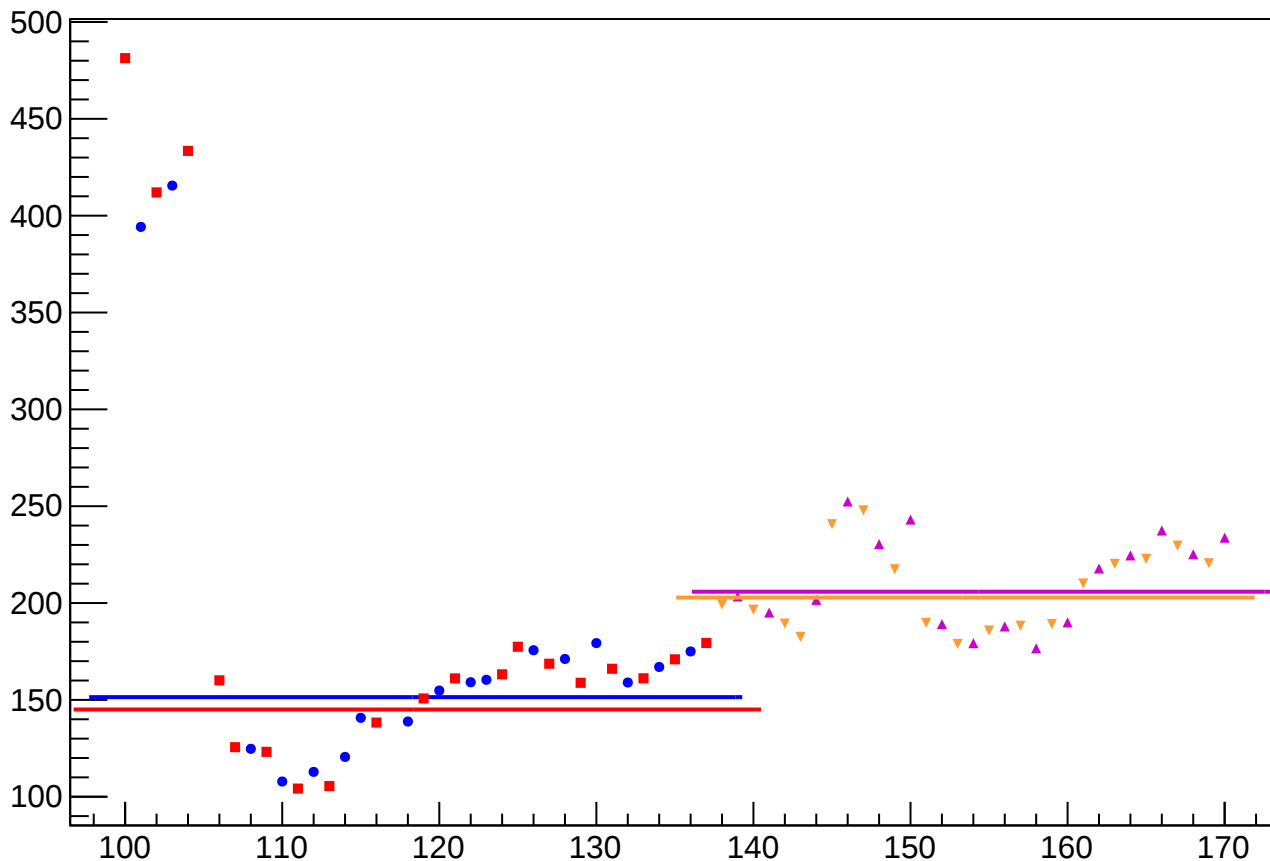
All: 150.059 $\pm$ 0.018 χ^2 /NDF: 7785561.8/68

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 146406.571+/-0.041	χ^2/NDF : 4884461698.0/3
Left Out: 146786.338+/-0.058	χ^2/NDF : 2048675769.5/16	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146766.924+/-0.043	χ^2/NDF : 3295939655.4/32
Left In: 146009.611+/-0.059	χ^2/NDF : 2747226840.0/15	Out: 147243.155+/-0.041	χ^2/NDF : 2379223033.3/3
		All: 147015.677+/-0.030	χ^2/NDF : 573953118

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: 205.857+/-0.042 χ^2/NDF : 303567.6/15

Left: 204.320+/-0.029 χ^2/NDF : 542826.6/32

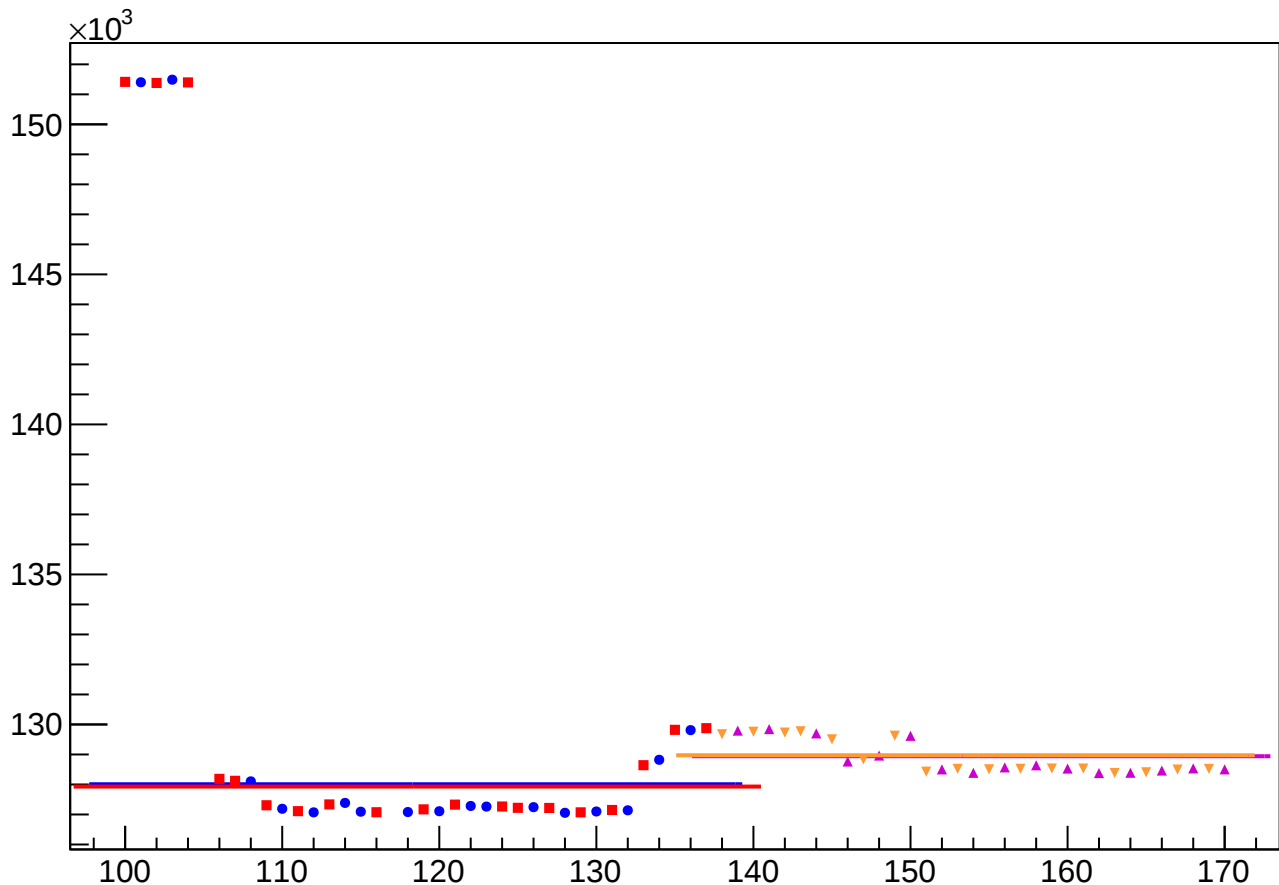
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 180.198+/-0.030 χ^2/NDF : 2363756.9/32

Out: 174.249+/-0.029 χ^2/NDF : 2605305.3/35

All: 177.091+/-0.021 χ^2/NDF : 4989148.2/68

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054

χ^2/NDF : 4319785674.5/16

Left Out: 128973.618 $\pm$ 0.052

χ^2/NDF : 121458777.2/16

Right Out: 127930.136 $\pm$ 0.050

χ^2/NDF : 3768176193.0/18

Left In: 128941.665 $\pm$ 0.054

χ^2/NDF : 109379717.0/15

Left: 128958.157 $\pm$ 0.037

χ^2/NDF : 231022063.7/32

Right: 127965.988 $\pm$ 0.037

χ^2/NDF : 8089052681.4/32

In: 128479.231 $\pm$ 0.038

χ^2/NDF : 4579663810.9/32

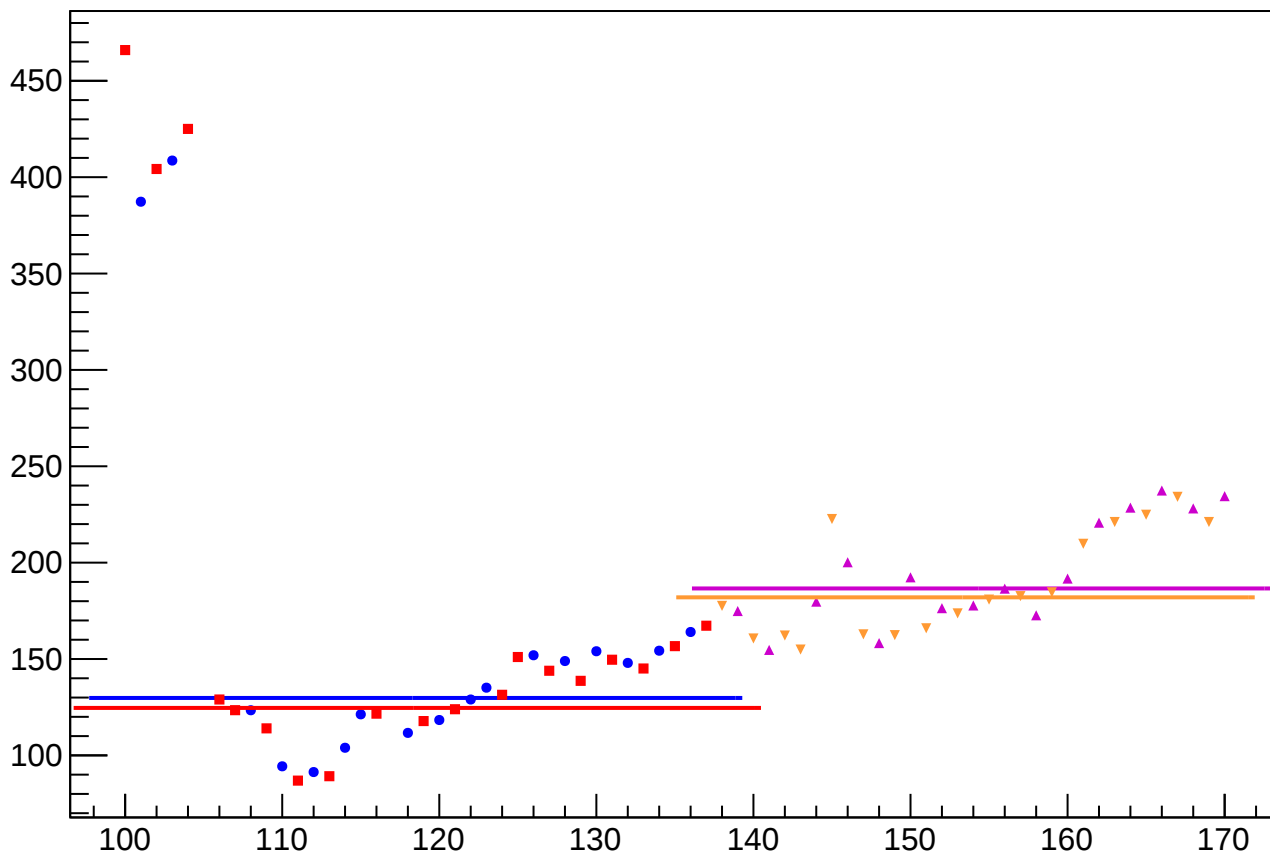
Out: 128436.616 $\pm$ 0.036

χ^2/NDF : 4097848962.5/32

All: 128456.813 $\pm$ 0.026

χ^2/NDF : 867817167.0/64

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 181.997 $\pm$ 0.037 χ^2 /NDF: 438449.6/16

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 186.610 $\pm$ 0.038 χ^2 /NDF: 408045.7/15

Left: 184.229 $\pm$ 0.026 χ^2 /NDF: 854149.5/32

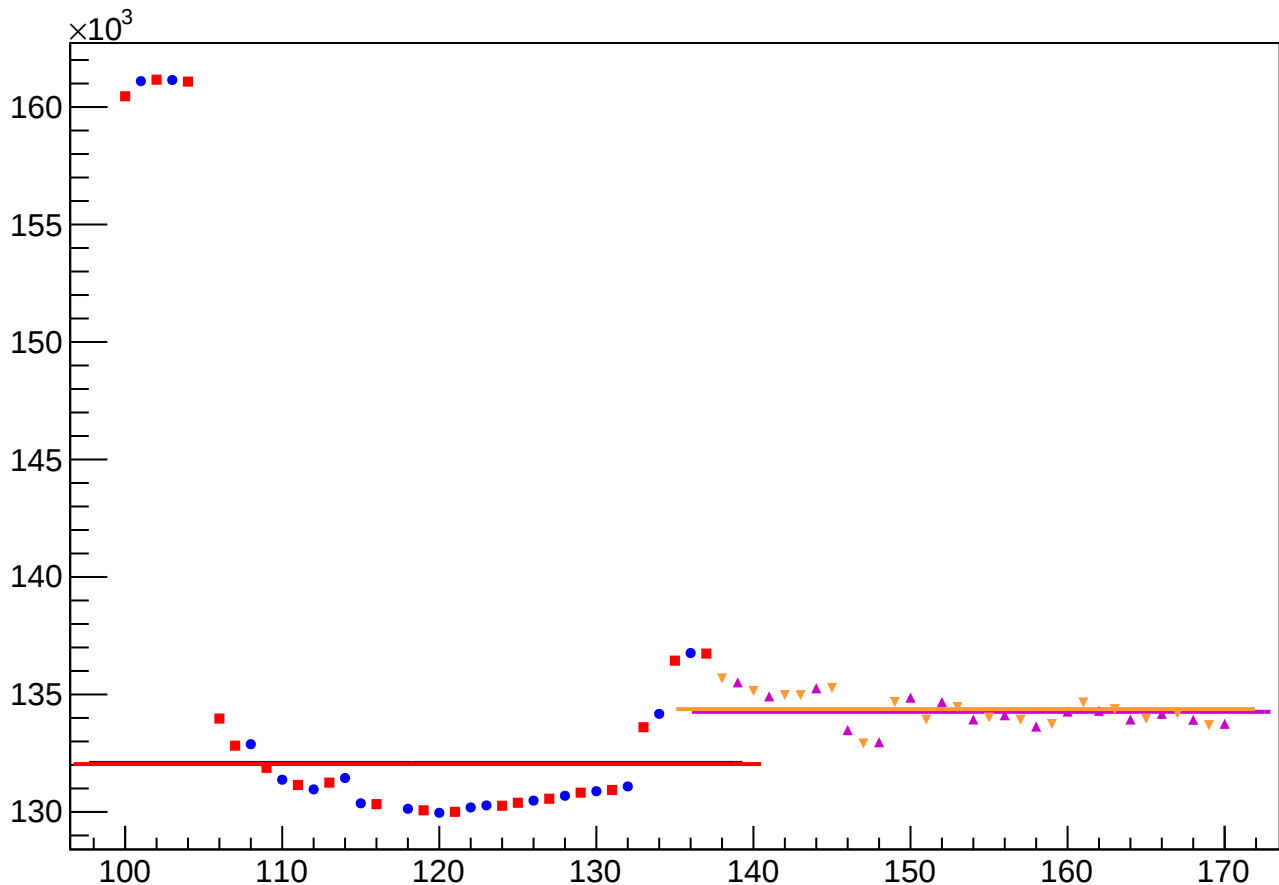
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 158.490 $\pm$ 0.027 χ^2 /NDF: 3006367.3/32

Out: 152.472 $\pm$ 0.026 χ^2 /NDF: 3229123.2/35

All: 155.324 $\pm$ 0.019 χ^2 /NDF: 6261775.1/68

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2 /NDF: 6733230928.7/16

Left Out: 134376.498 $\pm$ 0.054

χ^2 /NDF: 170839996.9/16

Right Out: 132037.539 $\pm$ 0.053

χ^2 /NDF: 5882115872.9/18

Left In: 134262.672 $\pm$ 0.055

χ^2 /NDF: 162943811.5/15

Left: 134321.300 $\pm$ 0.039

χ^2 /NDF: 335961947.4/32

Right: 132060.364 $\pm$ 0.038

χ^2 /NDF: 12615754245.0/32

In: 133197.556 $\pm$ 0.040

χ^2 /NDF: 7652609369.7/32

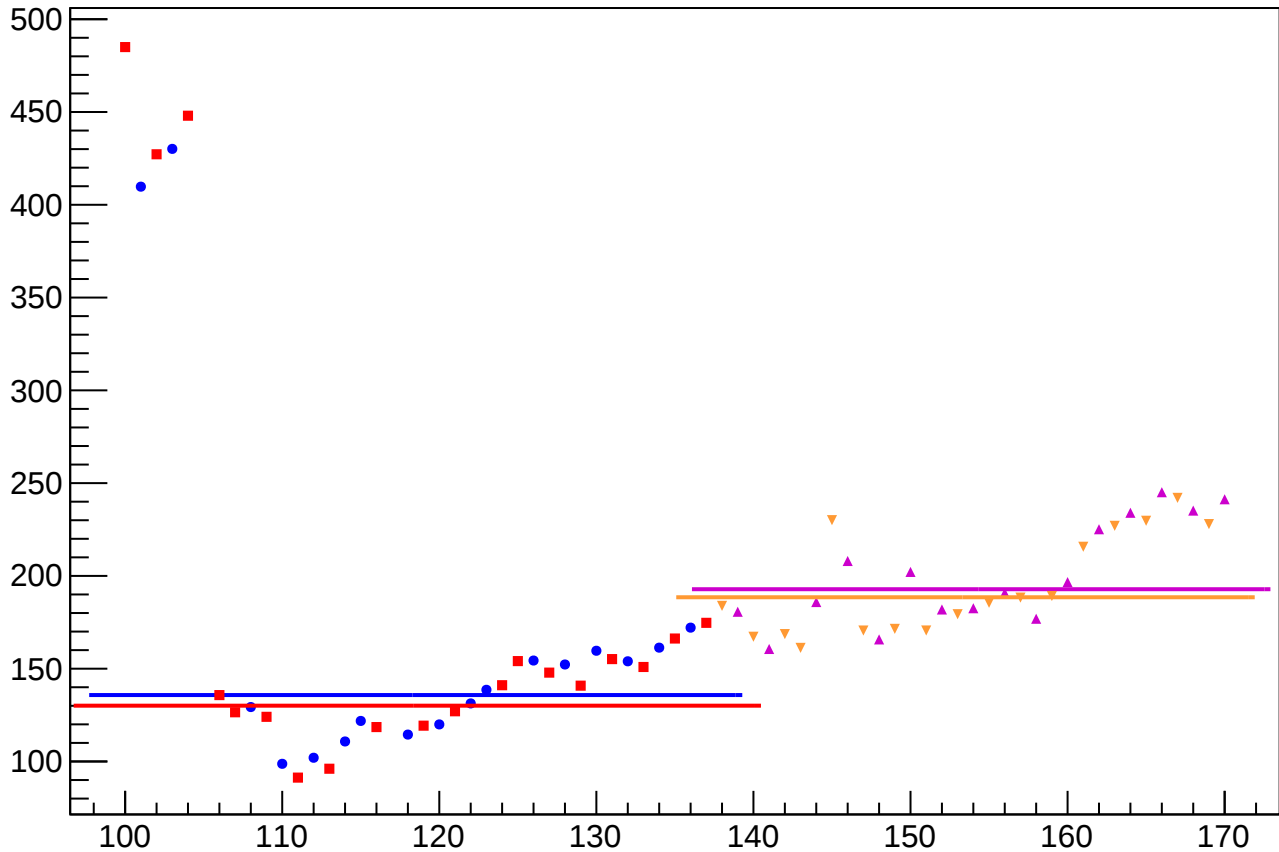
Out: 133181.077 $\pm$ 0.038

χ^2 /NDF: 7022271636.6/32

All: 133188.891 $\pm$ 0.027

χ^2 /NDF: 146749723.0/32

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: 192.830 $\pm$ 0.039 χ^2 /NDF: 390476.9/15

Left: 190.596 $\pm$ 0.027 χ^2 /NDF: 805354.7/32

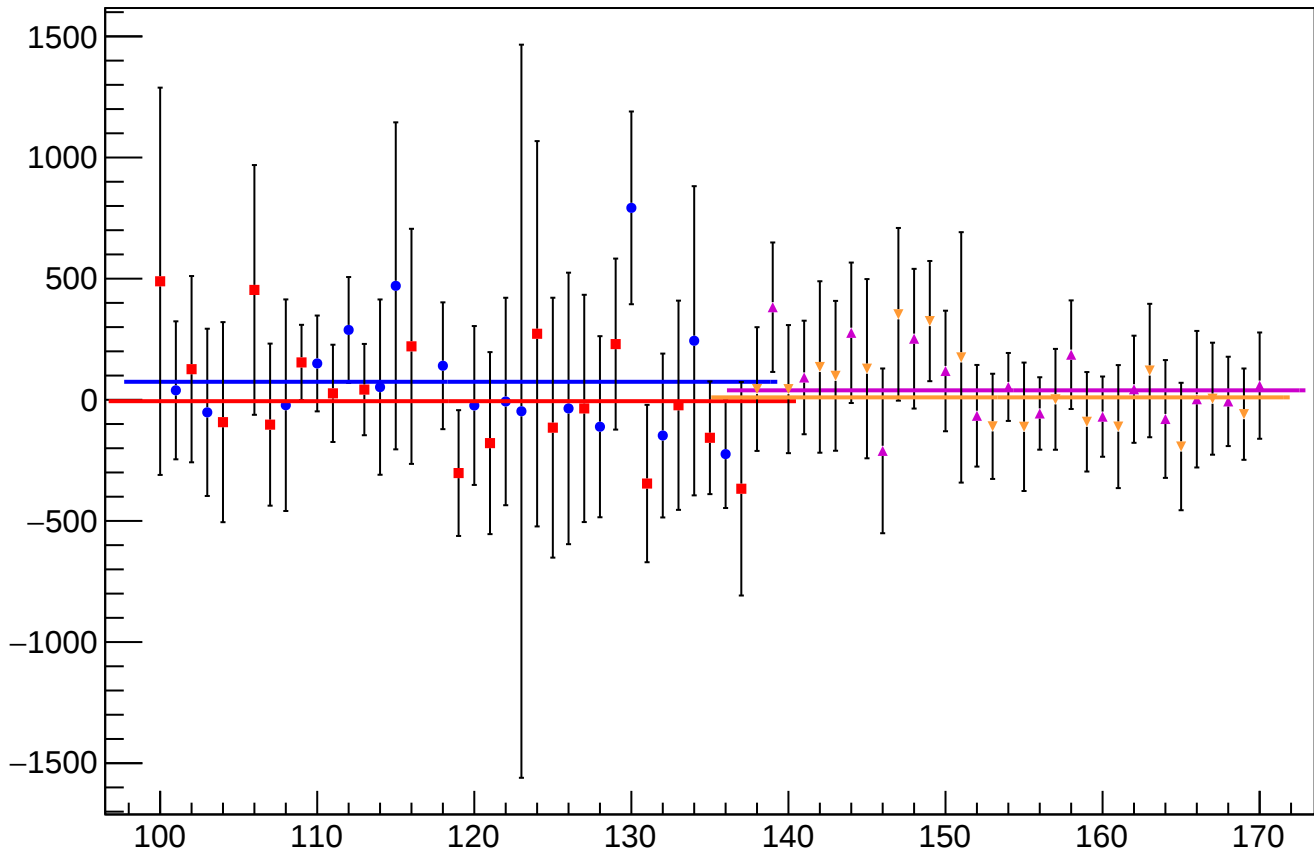
Right: 132.723 $\pm$ 0.027 χ^2 /NDF: 2956918.0/35

In: 164.911 $\pm$ 0.028 χ^2 /NDF: 2871814.2/32

Out: 158.633 $\pm$ 0.027 χ^2 /NDF: 3122078.9/35

All: 161.610 $\pm$ 0.019 χ^2 /NDF: 6020398.4/68

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2 /NDF: 7.7/16

Left Out: 10.023 $\pm$ 62.558 χ^2 /NDF:4.9/16

Right Out: -5.739 $\pm$ 70.069 χ^2 /NDF: 7.1/18

Left In: 39.052 $\pm$ 53.018 χ^2 /NDF:5.4/15

Left: 26.917 $\pm$ 40.447 χ^2 /NDF: 10.4/32

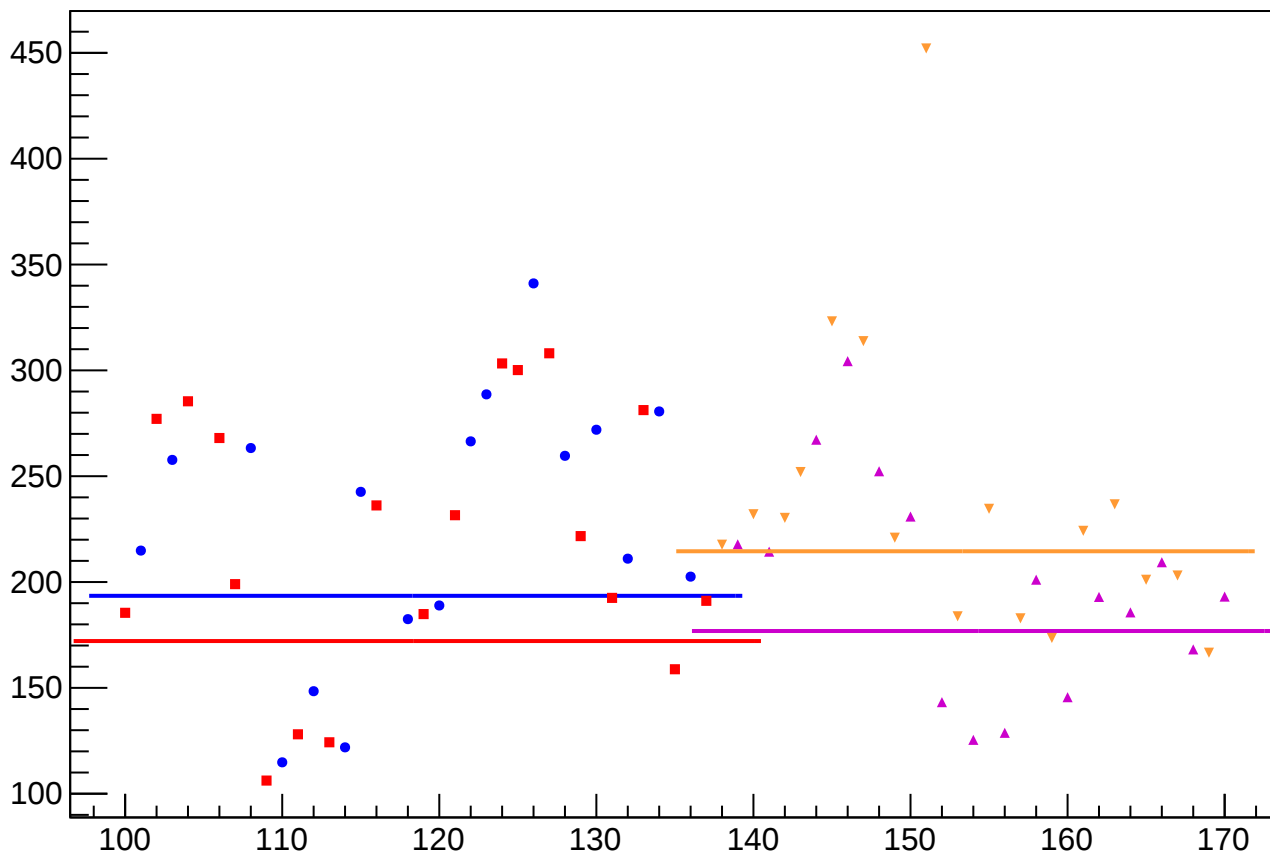
Right: 29.490 $\pm$ 52.426 χ^2 /NDF: 15.4/35

In: 49.993 $\pm$ 44.026 χ^2 /NDF:13.2/32

Out: 3.032 $\pm$ 46.666 χ^2 /NDF:12.0/35

All: 27.878 $\pm$ 32.024 χ^2 /NDF: 25.8/68

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 214.538+/-0.044 χ^2/NDF : 1126484.8/16

Right Out: 172.122+/-0.050 χ^2/NDF : 1579840.2/18

Left In: 176.862+/-0.037 χ^2/NDF : 1482288.4/15

Left: 192.611+/-0.029 χ^2/NDF : 3030966.5/32

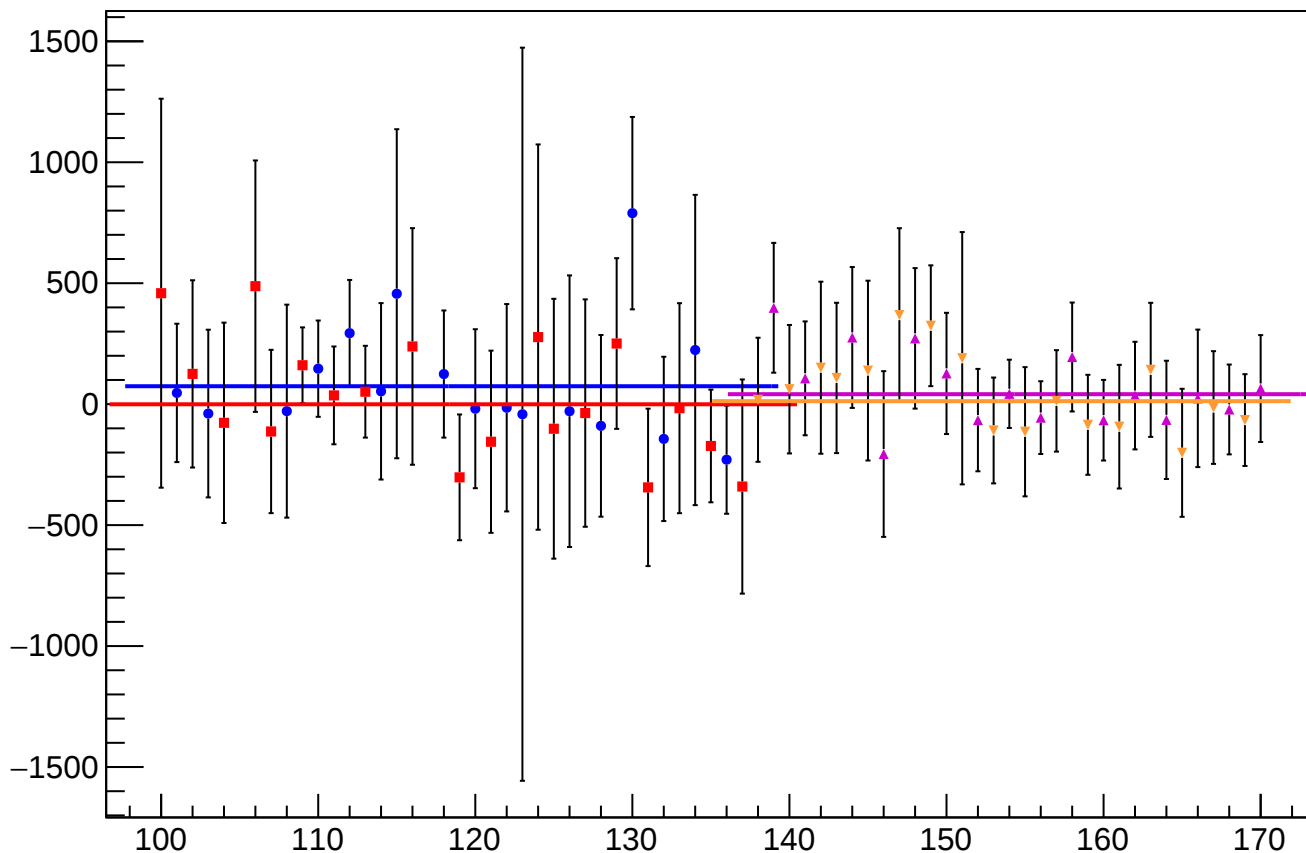
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 182.023+/-0.031 χ^2/NDF : 2560542.4/32

Out: 195.724+/-0.033 χ^2/NDF : 3114135.1/35

All: 188.475+/-0.023 χ^2/NDF : 5765897.1/68

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: 41.234 $\pm$ 53.351 χ^2/NDF : 5.6/15

Left: 29.187 $\pm$ 40.705 χ^2/NDF : 10.8/32

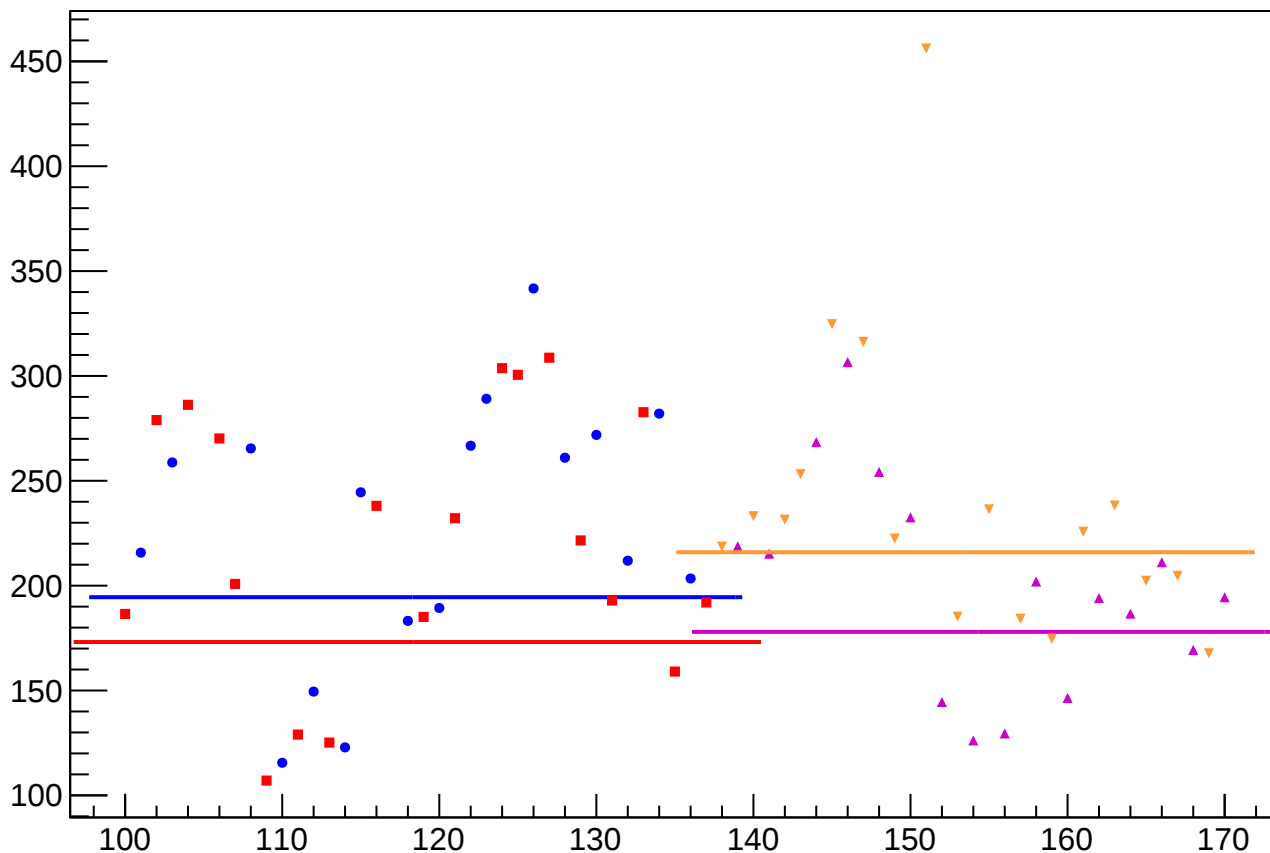
Right: 32.349 $\pm$ 52.693 χ^2/NDF : 15.4/35

In: 51.455 $\pm$ 44.283 χ^2/NDF : 13.3/32

Out: 6.673 $\pm$ 46.944 χ^2/NDF : 12.4/35

All: 30.369 $\pm$ 32.213 χ^2/NDF : 26.2/68

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2 /NDF: 1008514.7/16

Left Out: 215.938 $\pm$ 0.045 χ^2 /NDF:1125455.8/16

Right Out: 173.111 $\pm$ 0.050 χ^2 /NDF: 1567374.3/18

Left In: 177.967 $\pm$ 0.038 χ^2 /NDF:1481039.2/15

Left: 193.834 $\pm$ 0.029 χ^2 /NDF: 3029874.6/32

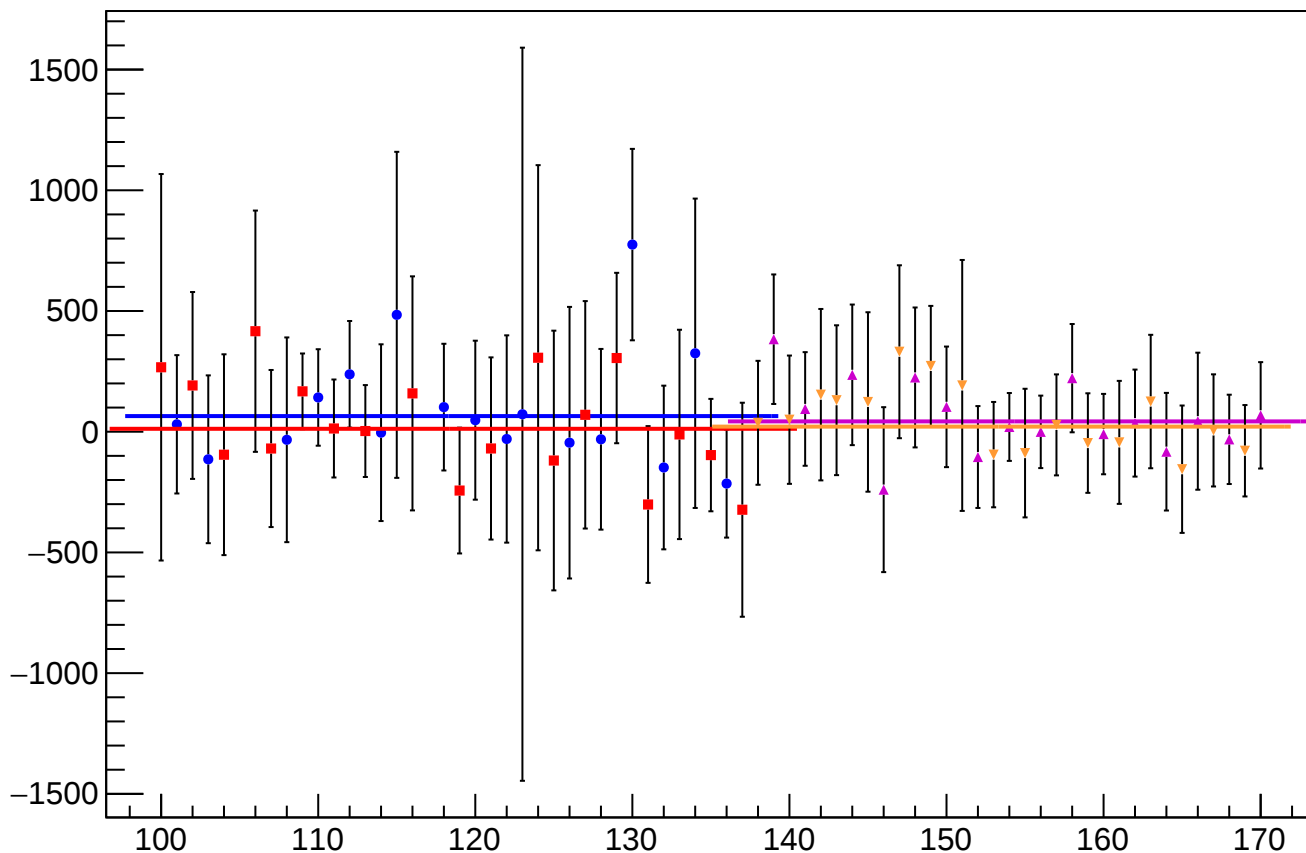
Right: 182.529 $\pm$ 0.037 χ^2 /NDF: 2657073.5/35

In: 183.108 $\pm$ 0.031 χ^2 /NDF:2549269.7/32

Out: 196.915 $\pm$ 0.033 χ^2 /NDF:3103789.2/35

All: 189.609 $\pm$ 0.023 χ^2 /NDF: 5744610.0/68

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 ± 79.399 χ^2/NDF : 7.0/16

Left Out: 21.115 ± 62.822 χ^2/NDF : 3.7/16

Right Out: 12.094 ± 70.361 χ^2/NDF : 5.8/18

Left In: 42.749 ± 53.213 χ^2/NDF : 5.0/15

Left: 33.711 ± 40.604 χ^2/NDF : 8.8/32

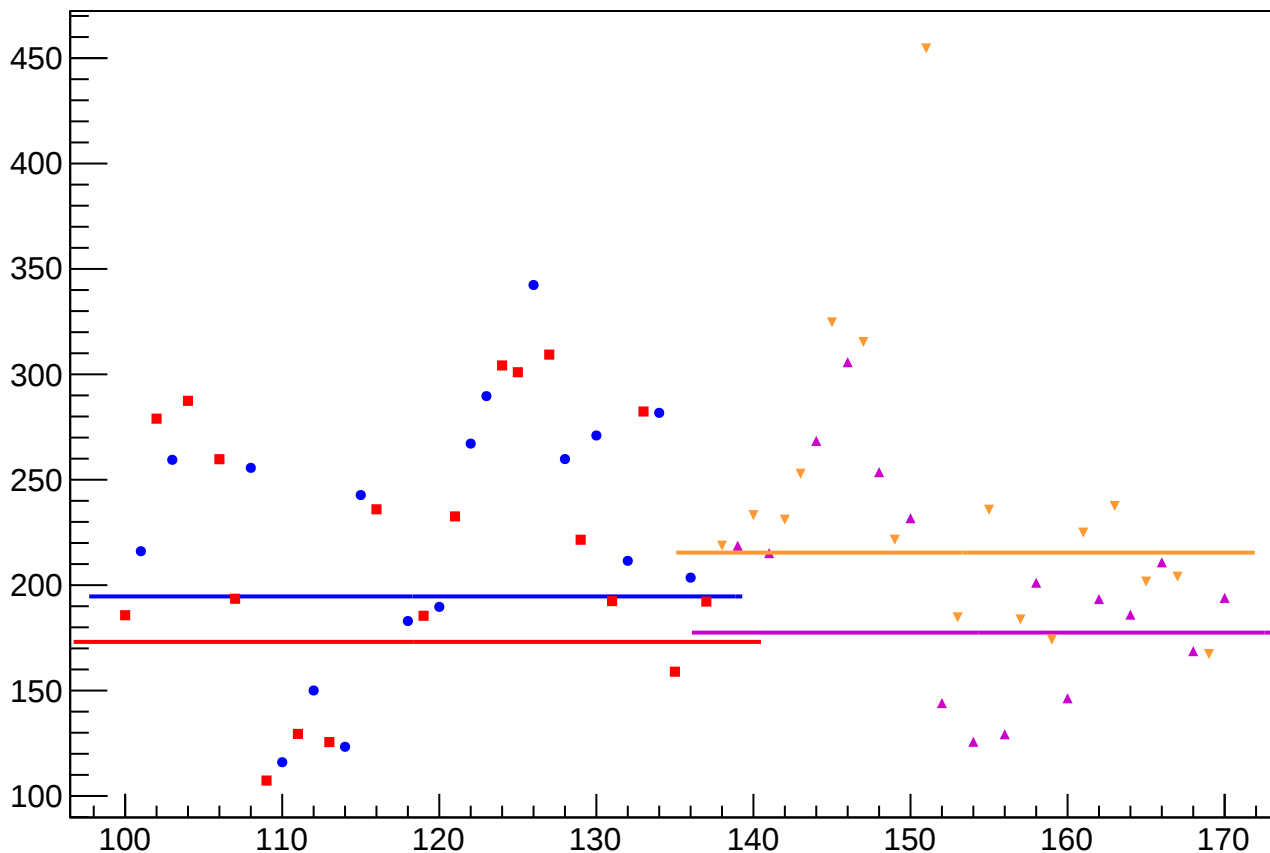
Right: 35.248 ± 52.659 χ^2/NDF : 13.1/35

In: 49.563 ± 44.204 χ^2/NDF : 12.1/32

Out: 17.113 ± 46.861 χ^2/NDF : 9.6/35

All: 34.284 ± 32.155 χ^2/NDF : 21.9/68

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 215.429 $\pm$ 0.044 χ^2 /NDF: 1127558.1/16

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 177.496 $\pm$ 0.038 χ^2 /NDF: 1484737.7/15

Left: 193.343 $\pm$ 0.029 χ^2 /NDF: 3036874.9/32

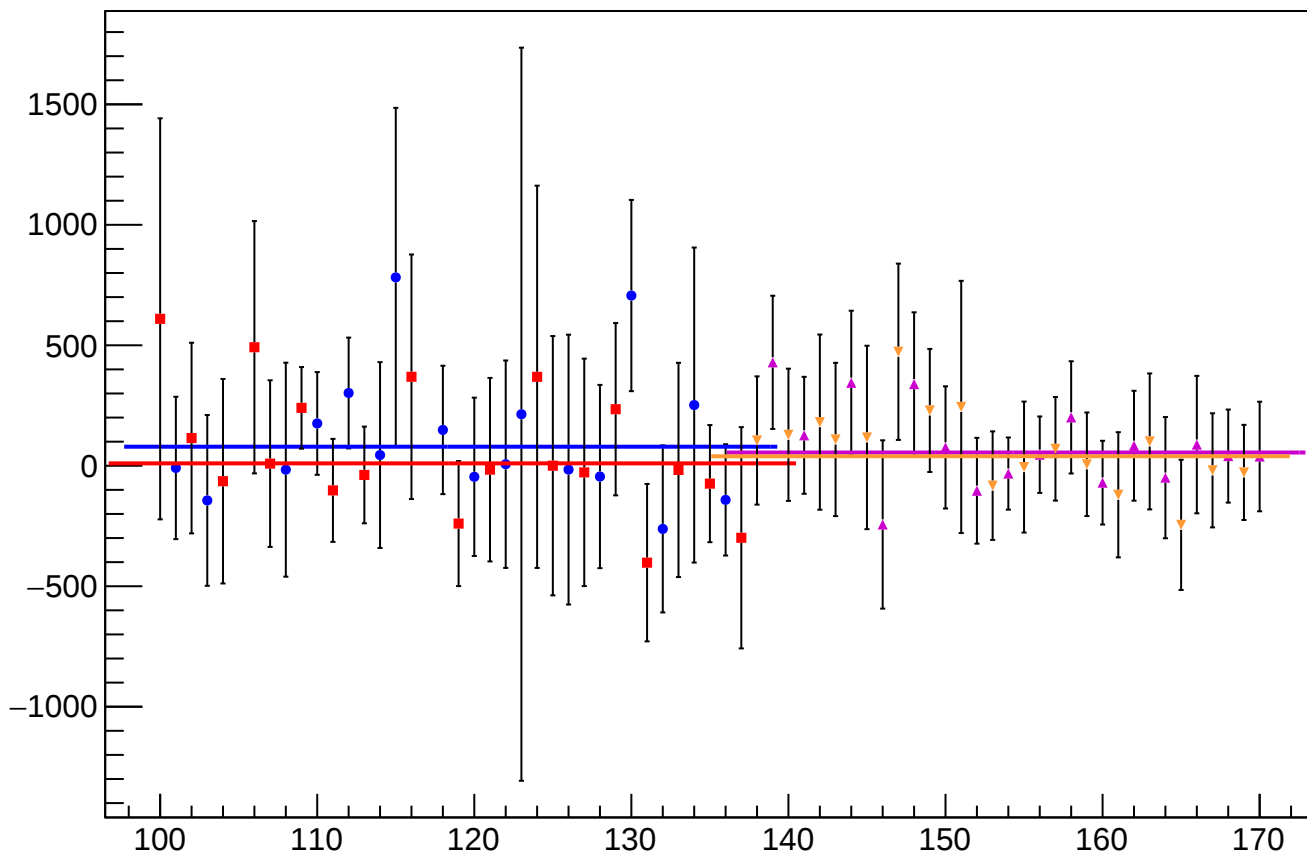
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 182.813 $\pm$ 0.031 χ^2 /NDF: 2535970.1/32

Out: 196.648 $\pm$ 0.033 χ^2 /NDF: 3075082.5/35

All: 189.327 $\pm$ 0.023 χ^2 /NDF: 5703295.7/68

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: 55.040 $\pm$ 55.355 χ^2 /NDF:6.5/15

Left: 48.436 $\pm$ 42.048 χ^2 /NDF: 11.1/32

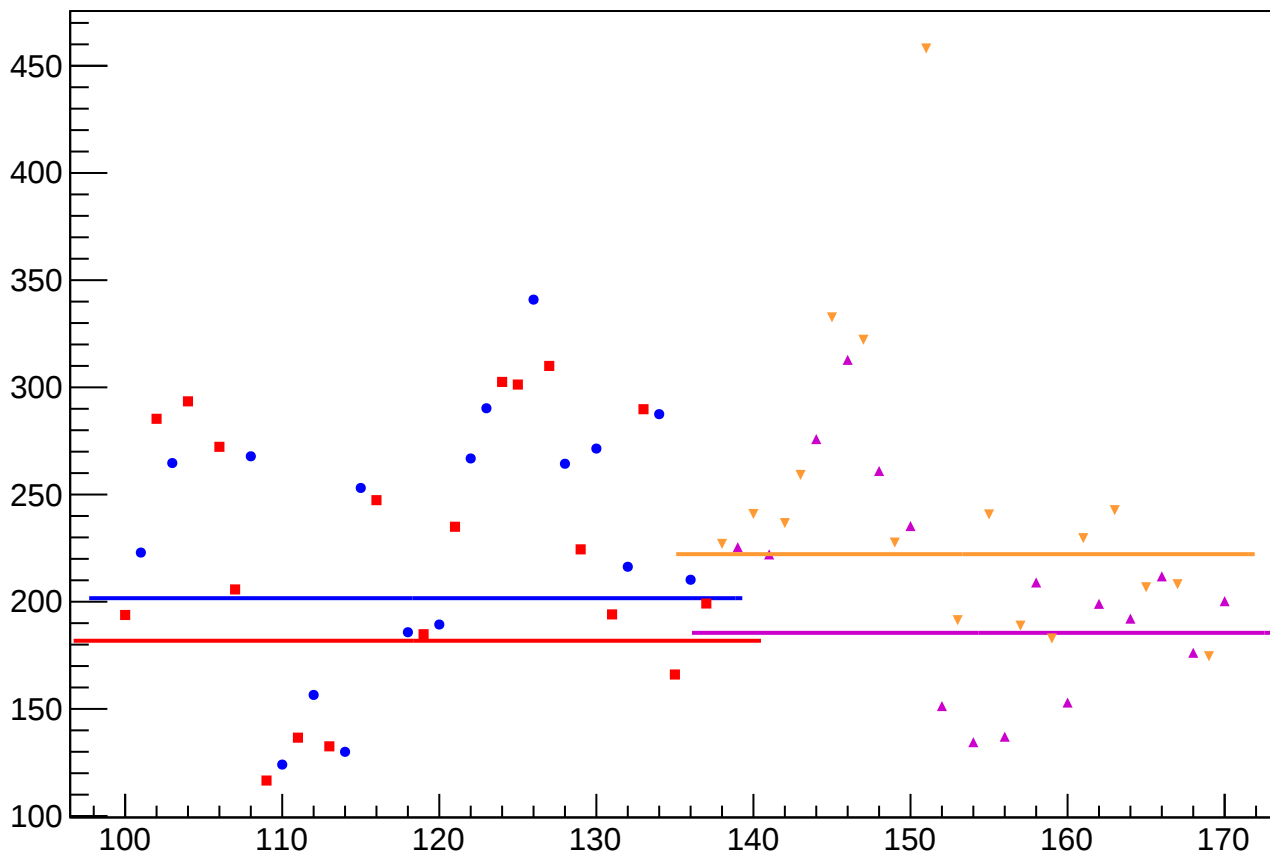
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 62.597 $\pm$ 45.858 χ^2 /NDF:14.1/32

Out: 26.546 $\pm$ 48.488 χ^2 /NDF:12.5/35

All: 45.576 $\pm$ 33.317 χ^2 /NDF: 26.9/68

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: 185.488 ± 0.039 χ^2/NDF : 1337250.8/15

Left: 201.013 ± 0.030 χ^2/NDF : 2778177.4/32

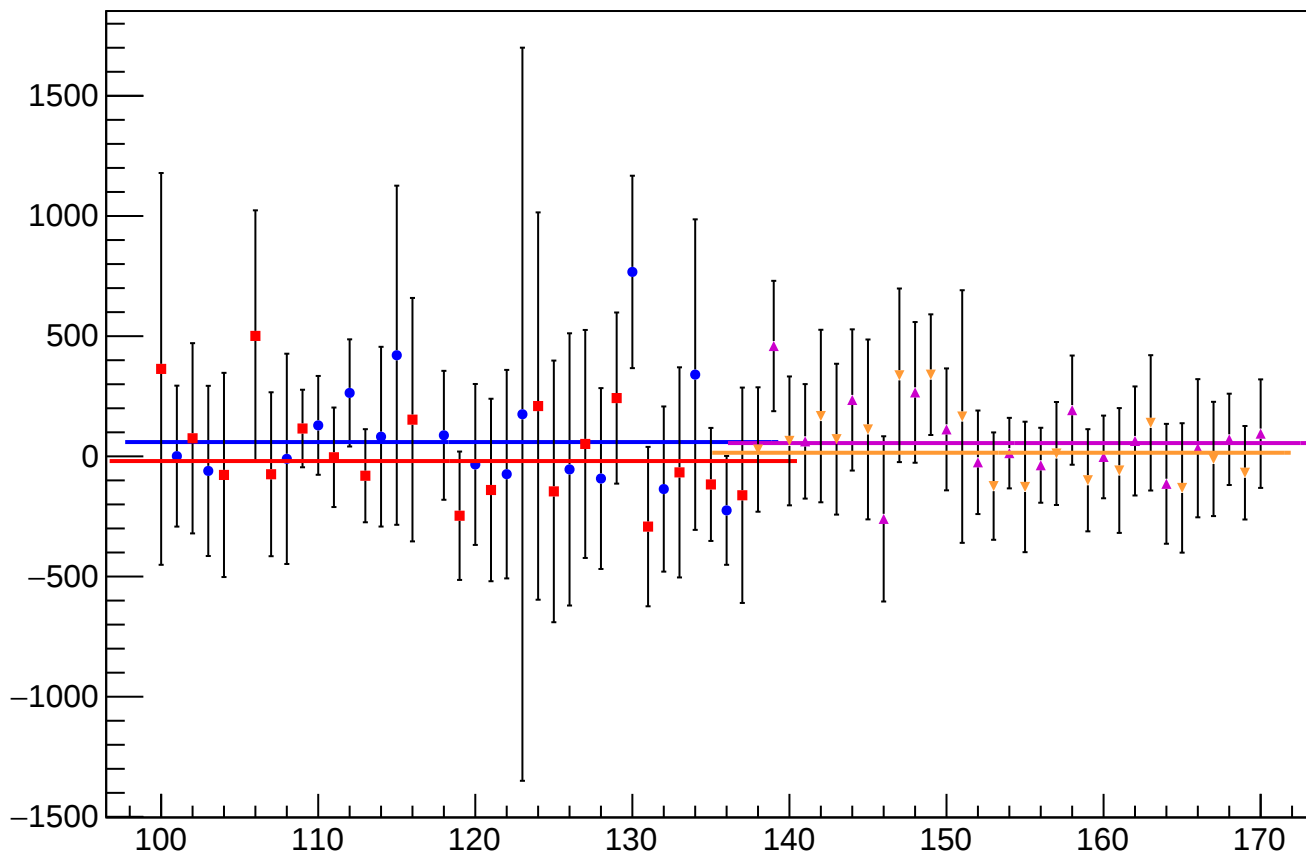
Right: 190.633 ± 0.039 χ^2/NDF : 2325921.8/35

In: 190.559 ± 0.032 χ^2/NDF : 2273944.4/32

Out: 204.519 ± 0.034 χ^2/NDF : 2788008.0/35

All: 197.150 ± 0.024 χ^2/NDF : 5149455.3/68

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: 55.288 $\pm$ 54.575 χ^2 /NDF:5.6/15

Left: 38.334 $\pm$ 41.533 χ^2 /NDF: 10.4/32

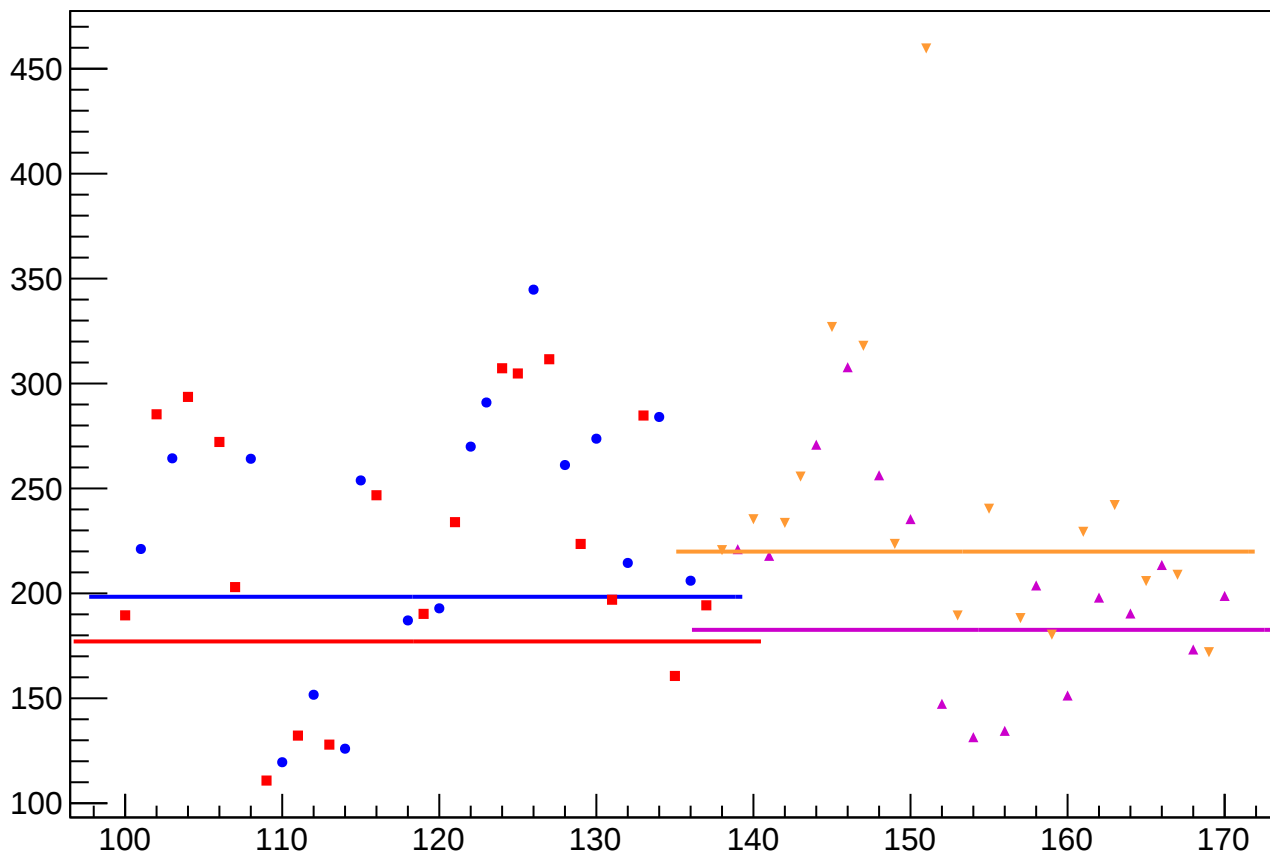
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 56.606 $\pm$ 45.227 χ^2 /NDF:12.6/32

Out: -0.281 $\pm$ 47.804 χ^2 /NDF:9.4/35

All: 29.737 $\pm$ 32.853 χ^2 /NDF: 22.8/68

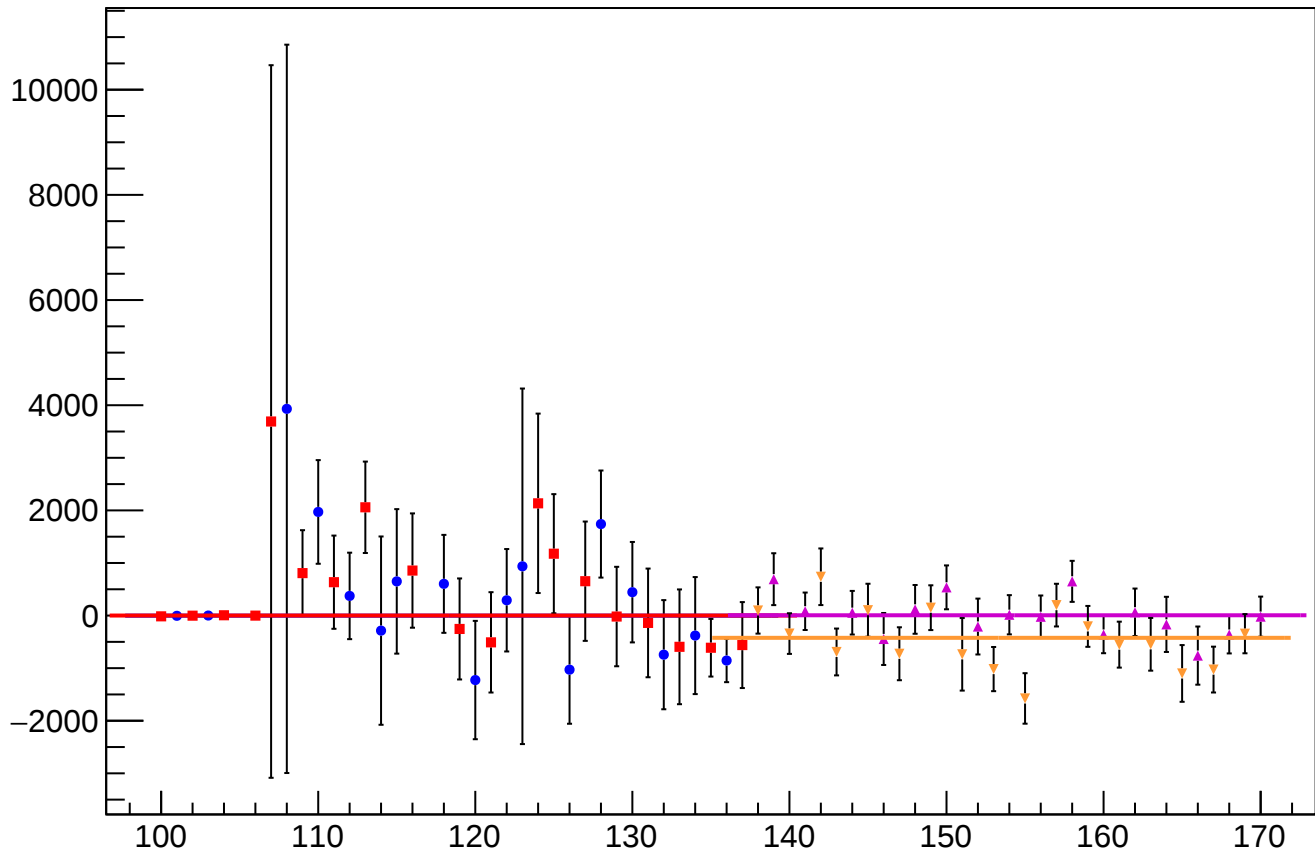
asym_bcm_dg_ds_rms vs Slug, Sign Corrected



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: 182.623 $\pm$ 0.039 χ^2 /NDF:1362626.5/15

Left: 198.315 $\pm$ 0.029 χ^2 /NDF: 2826749.9/32
 Right: 186.495 $\pm$ 0.038 χ^2 /NDF: 2565896.1/35
 In: 187.558 $\pm$ 0.032 χ^2 /NDF:2378512.9/32
 Out: 200.966 $\pm$ 0.034 χ^2 /NDF:2991738.4/35
 All: 193.891 $\pm$ 0.023 χ^2 /NDF: 5453277.0/68

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: 5.676 ± 105.322 χ^2/NDF : 11.6/15

Left: -200.784 ± 75.847 χ^2/NDF : 43.6/32

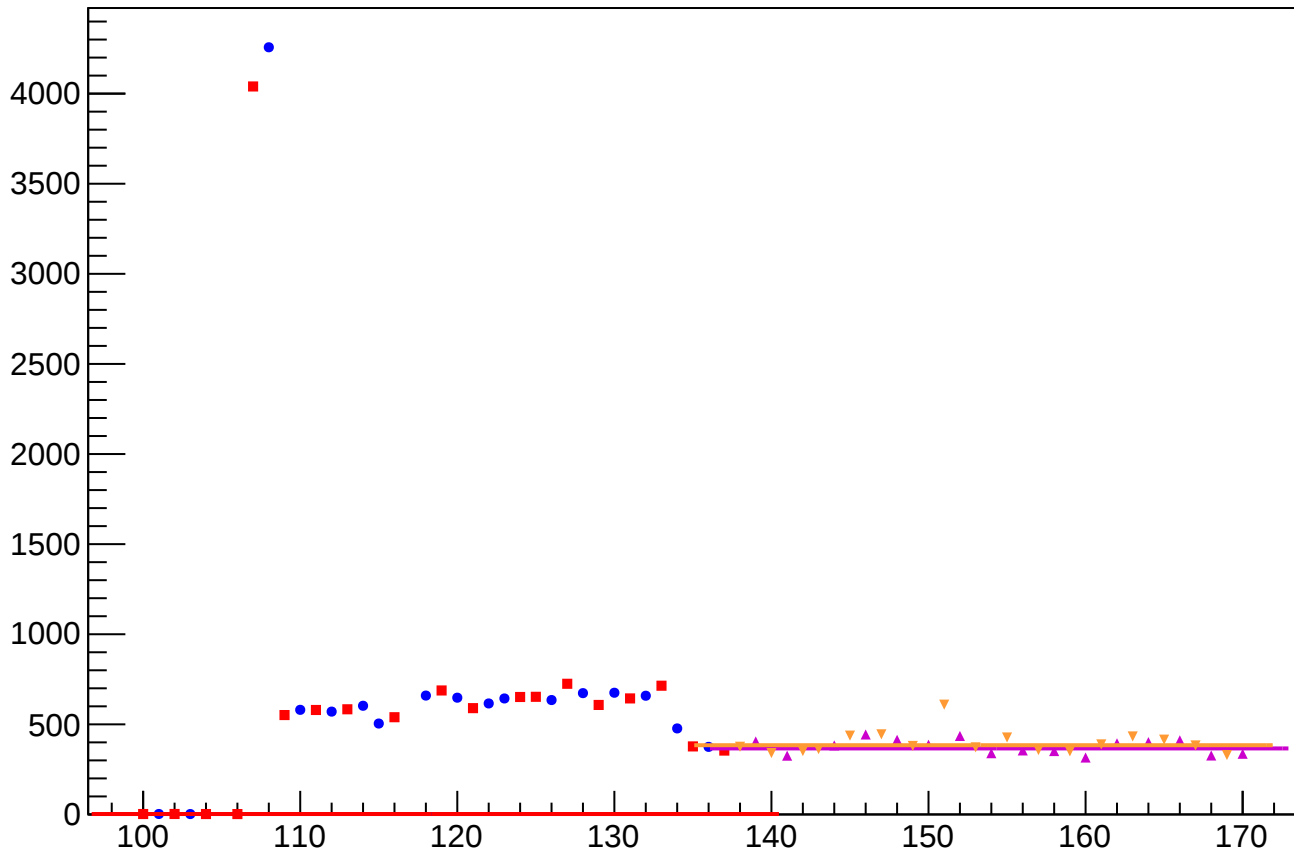
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.526 ± 2.251 χ^2/NDF : 28.5/32

Out: 0.569 ± 2.111 χ^2/NDF : 58.4/35

All: -0.412 ± 1.540 χ^2/NDF : 87.4/68

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: 366.347+/-0.074 χ^2/NDF : 270836.7/15

Left: 374.959+/-0.054 χ^2/NDF : 710478.7/32

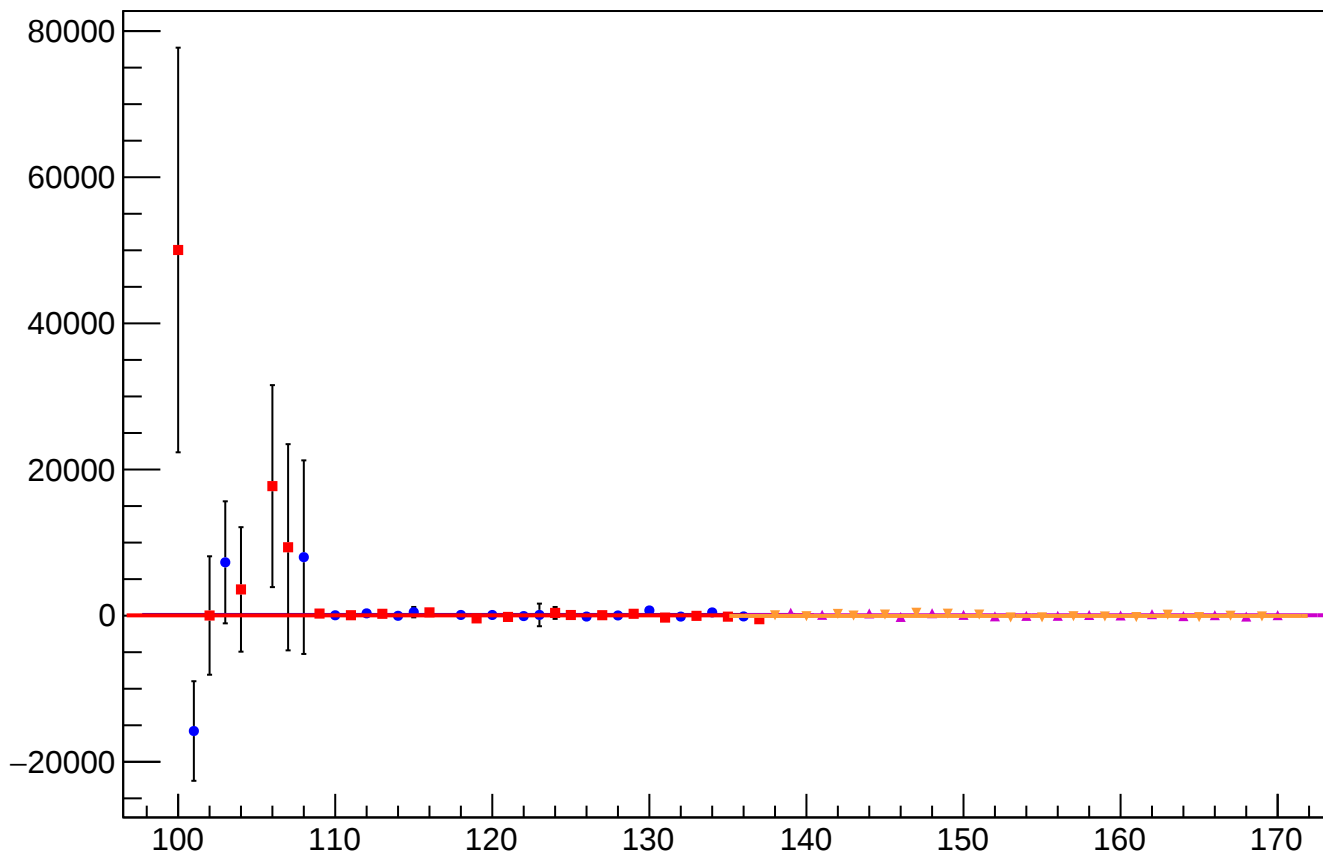
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.623+/-0.002 χ^2/NDF : 34981910.3/32

Out: 2.579+/-0.001 χ^2/NDF : 35946188.8/35

All: 2.600+/-0.001 χ^2/NDF : 70928501.8/68

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -34.316+/-66.587 χ^2/NDF : 6.1/16

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 56.796+/-57.911 χ^2/NDF : 6.0/15

Left: 17.559+/-43.697 χ^2/NDF : 13.1/32

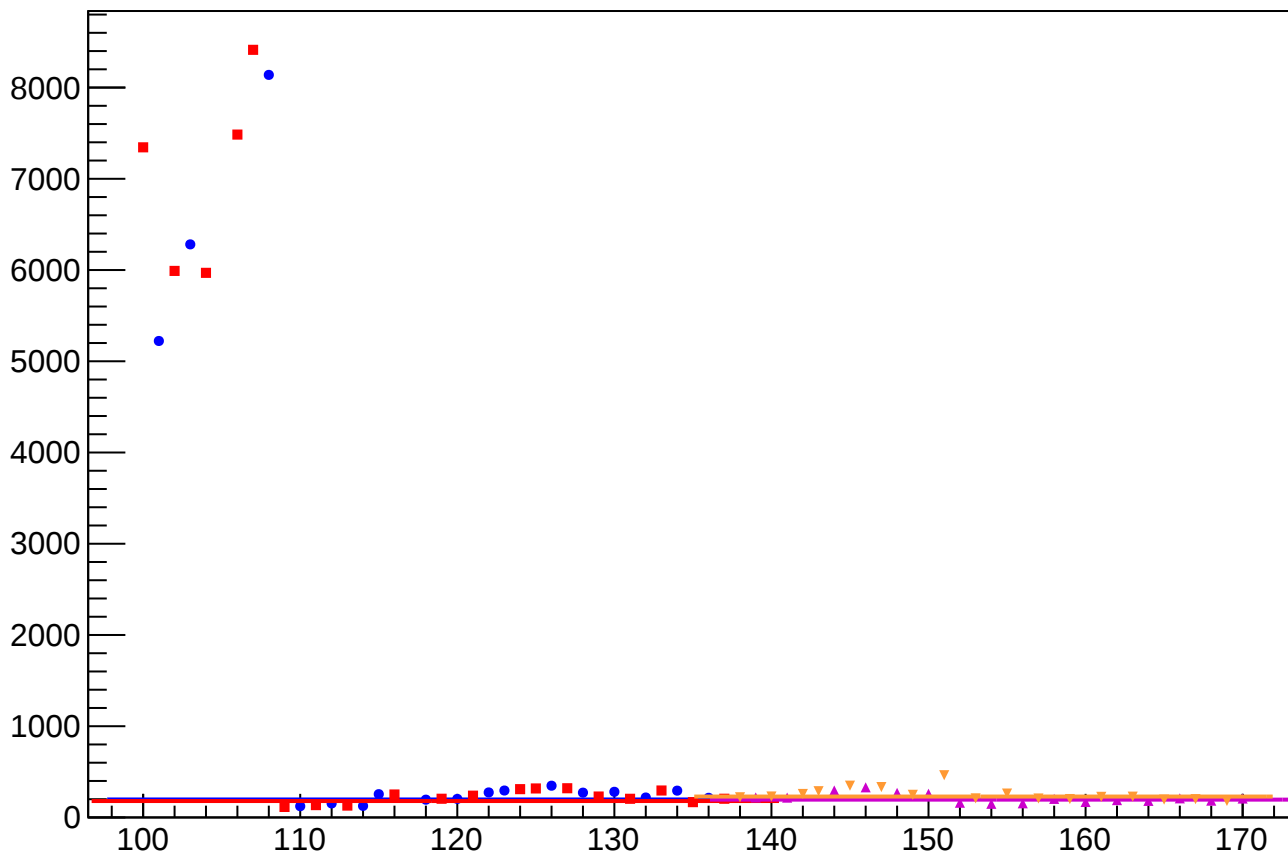
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 68.885+/-48.835 χ^2/NDF : 18.0/32

Out: -4.963+/-52.299 χ^2/NDF : 20.5/35

All: 34.487+/-35.693 χ^2/NDF : 39.5/68

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: 195.355+/-0.041 χ^2/NDF : 1074293.6/15

Left: 209.918+/-0.031 χ^2/NDF : 2425938.7/32

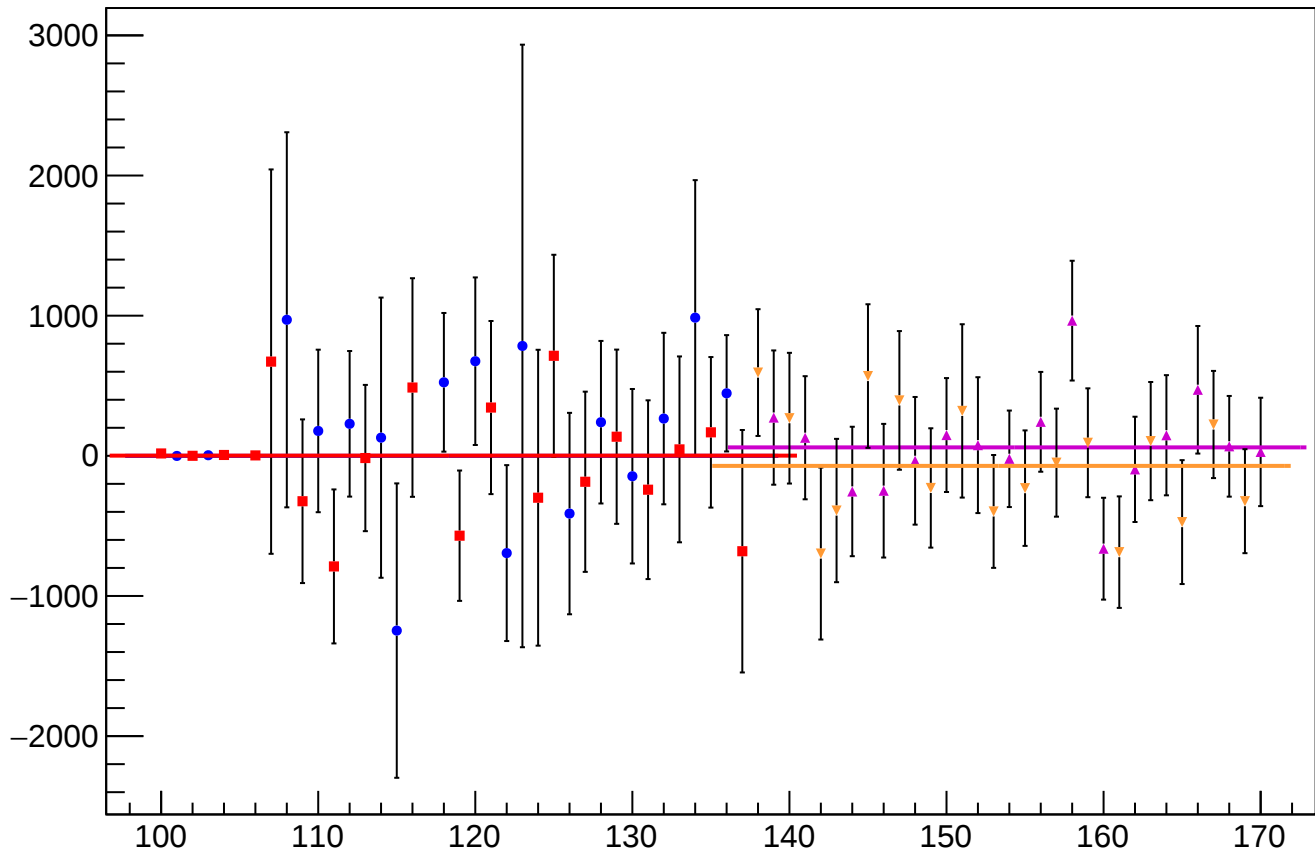
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 195.855+/-0.035 χ^2/NDF : 4768423.3/32

Out: 210.314+/-0.037 χ^2/NDF : 5797823.4/35

All: 202.590+/-0.025 χ^2/NDF : 10647904.5/68

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -71.808 ± 106.253 χ^2/NDF : 12.6/16

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 60.238 ± 102.639 χ^2/NDF : 11.0/15

Left: -3.501 ± 73.821 χ^2/NDF : 24.3/32

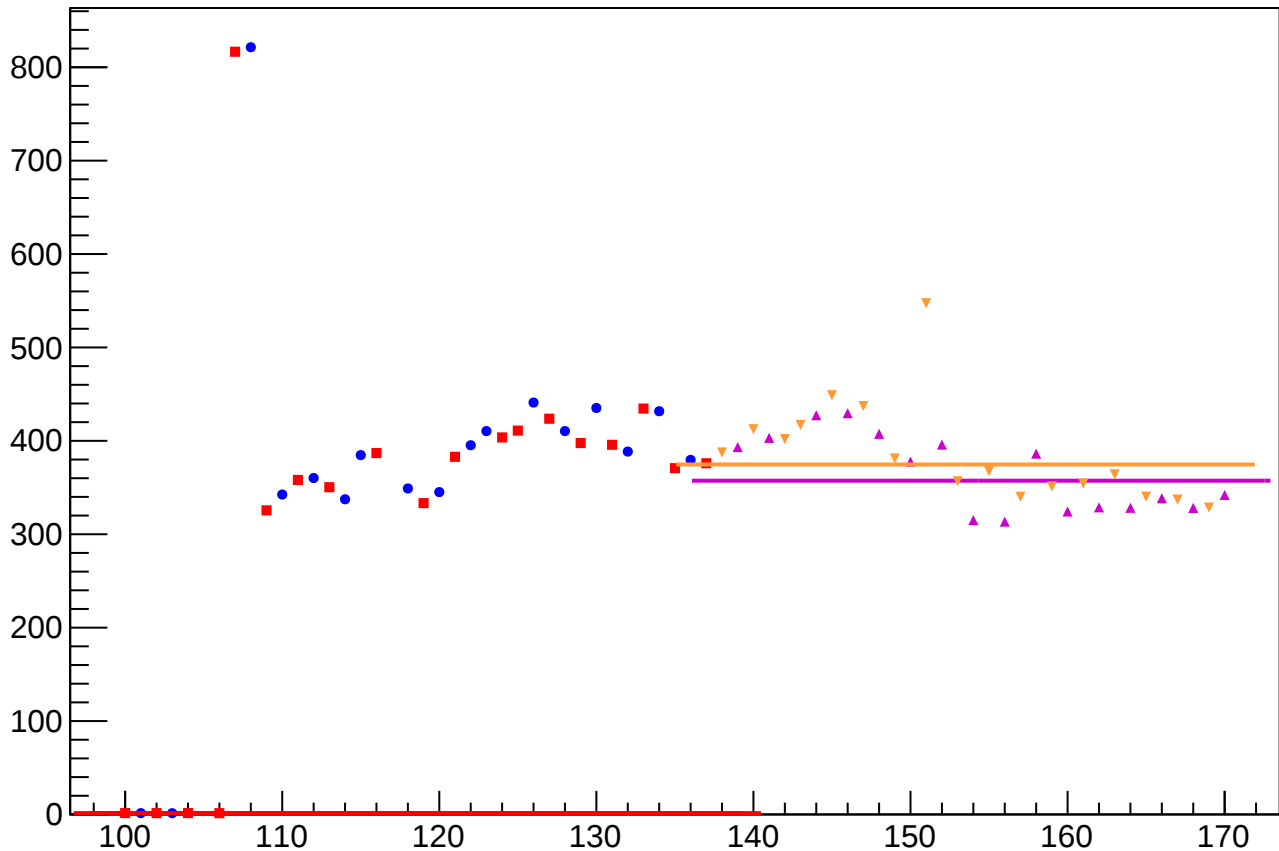
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.121 ± 1.736 χ^2/NDF : 21.1/32

Out: 1.306 ± 1.622 χ^2/NDF : 22.6/35

All: 0.641 ± 1.185 χ^2/NDF : 44.1/68

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: 357.334+/-0.073 χ^2/NDF : 293454.8/15

Left: 365.707+/-0.052 χ^2/NDF : 680247.6/32

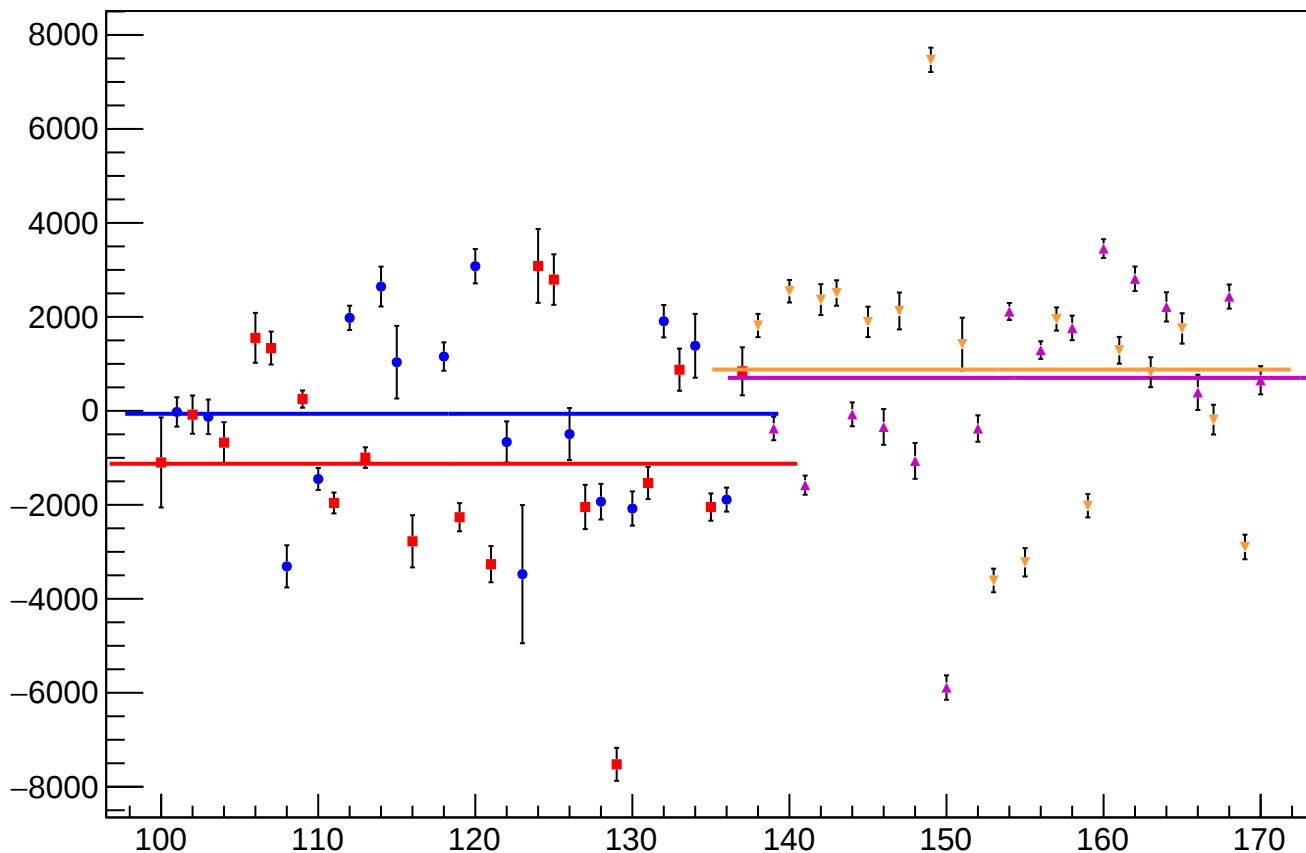
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.555+/-0.001 χ^2/NDF : 35289249.4/32

Out: 1.538+/-0.001 χ^2/NDF : 35911702.9/35

All: 1.546+/-0.001 χ^2/NDF : 71201050.0/68

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: 701.661+/-62.716 χ^2/NDF :1255.6/15

Left: 781.191+/-46.579 χ^2/NDF : 2936.7/32

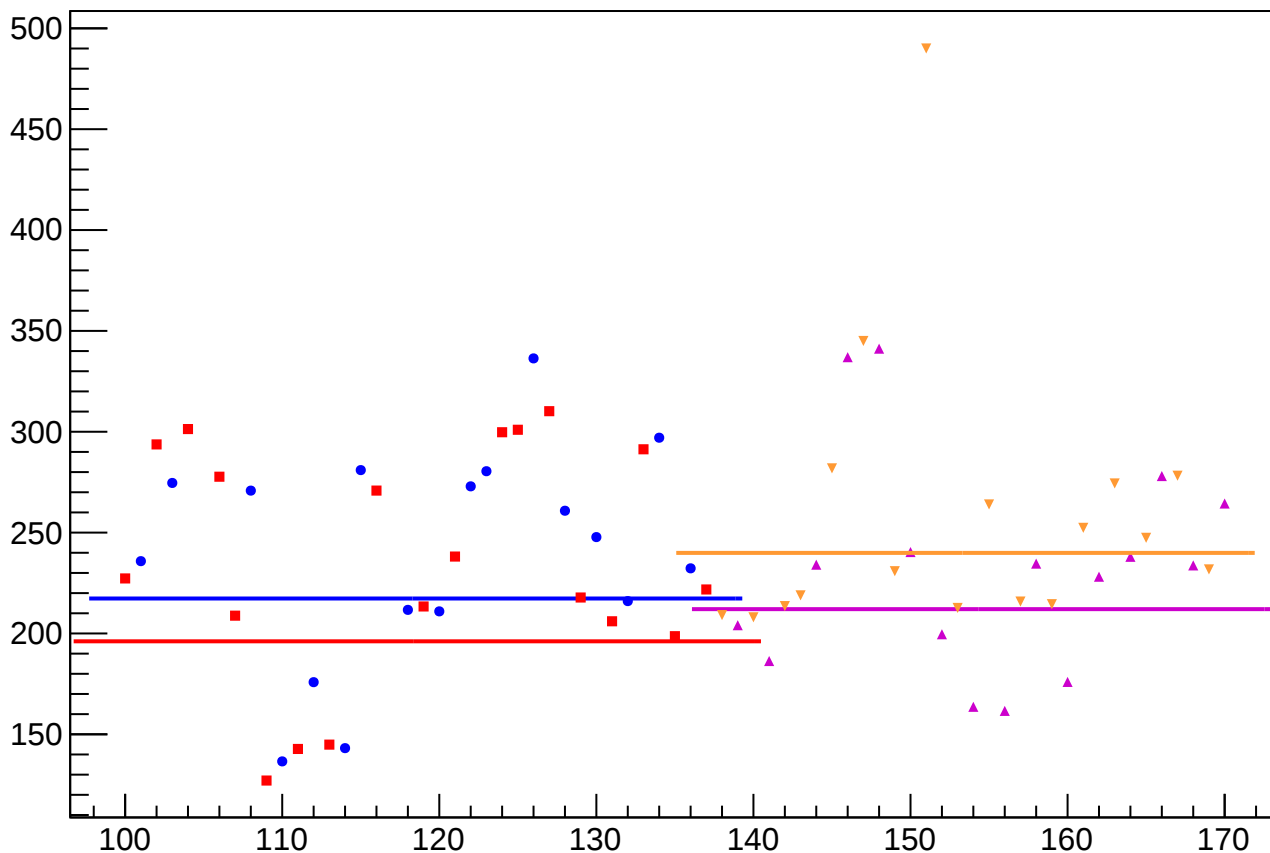
Right: -651.694+/-58.355 χ^2/NDF : 1187.1/35

In: 442.134+/-50.959 χ^2/NDF :1739.9/32

Out: -4.273+/-52.024 χ^2/NDF :2714.7/35

All: 223.545+/-36.404 χ^2/NDF : 4492.1/68

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 239.942+/-0.049 χ^2/NDF :804125.8/16

Right Out: 196.105+/-0.055 χ^2/NDF : 1190733.6/18

Left In: 212.055+/-0.044 χ^2/NDF :1049597.1/15

Left: 224.559+/-0.033 χ^2/NDF : 2031041.4/32

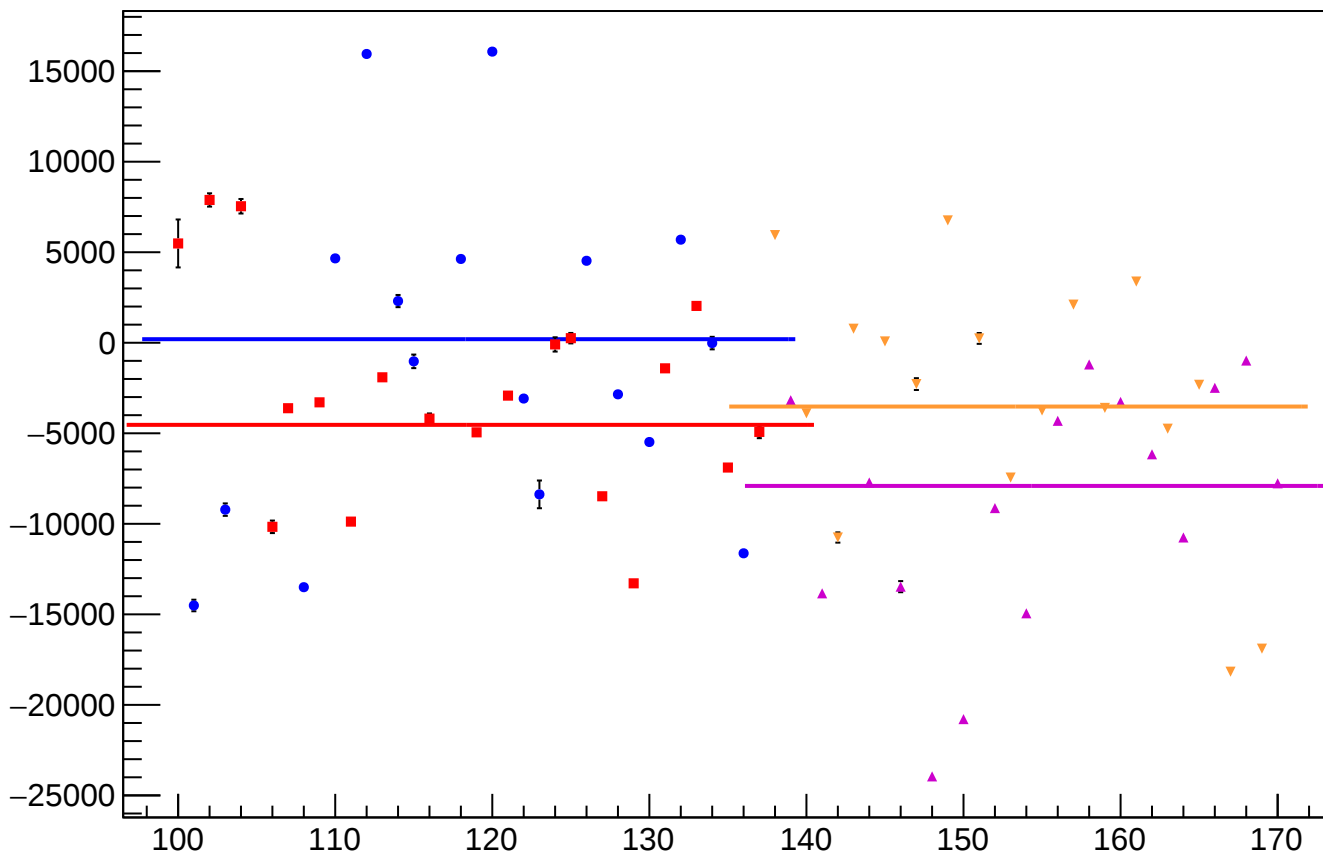
Right: 205.562+/-0.041 χ^2/NDF : 1908816.5/35

In: 213.847+/-0.036 χ^2/NDF :1707127.6/32

Out: 220.625+/-0.037 χ^2/NDF :2344874.5/35

All: 217.166+/-0.026 χ^2/NDF : 4069326.3/68

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: -7906.804 $\pm$ 49.419 χ^2/NDF :16463.0/15

Left: -5678.029 $\pm$ 34.650 χ^2/NDF : 40265.5/32

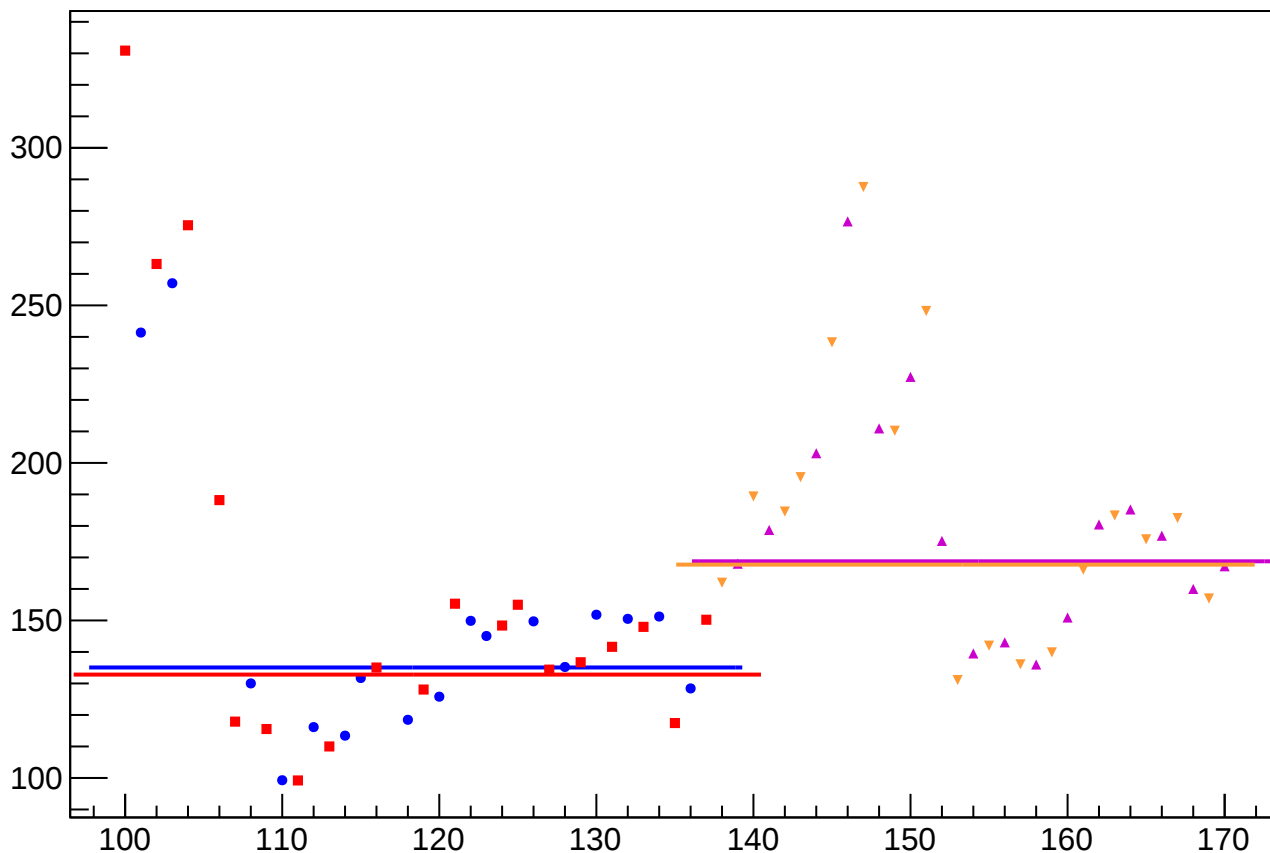
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4272.101 $\pm$ 36.699 χ^2/NDF :59182.0/32

Out: -3989.897 $\pm$ 35.651 χ^2/NDF :27478.9/35

All: -4126.910 $\pm$ 25.572 χ^2/NDF : 86691.4/68

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: 168.771 $\pm$ 0.035 χ^2 /NDF: 736859.9/15

Left: 168.237 $\pm$ 0.025 χ^2 /NDF: 1758096.1/32

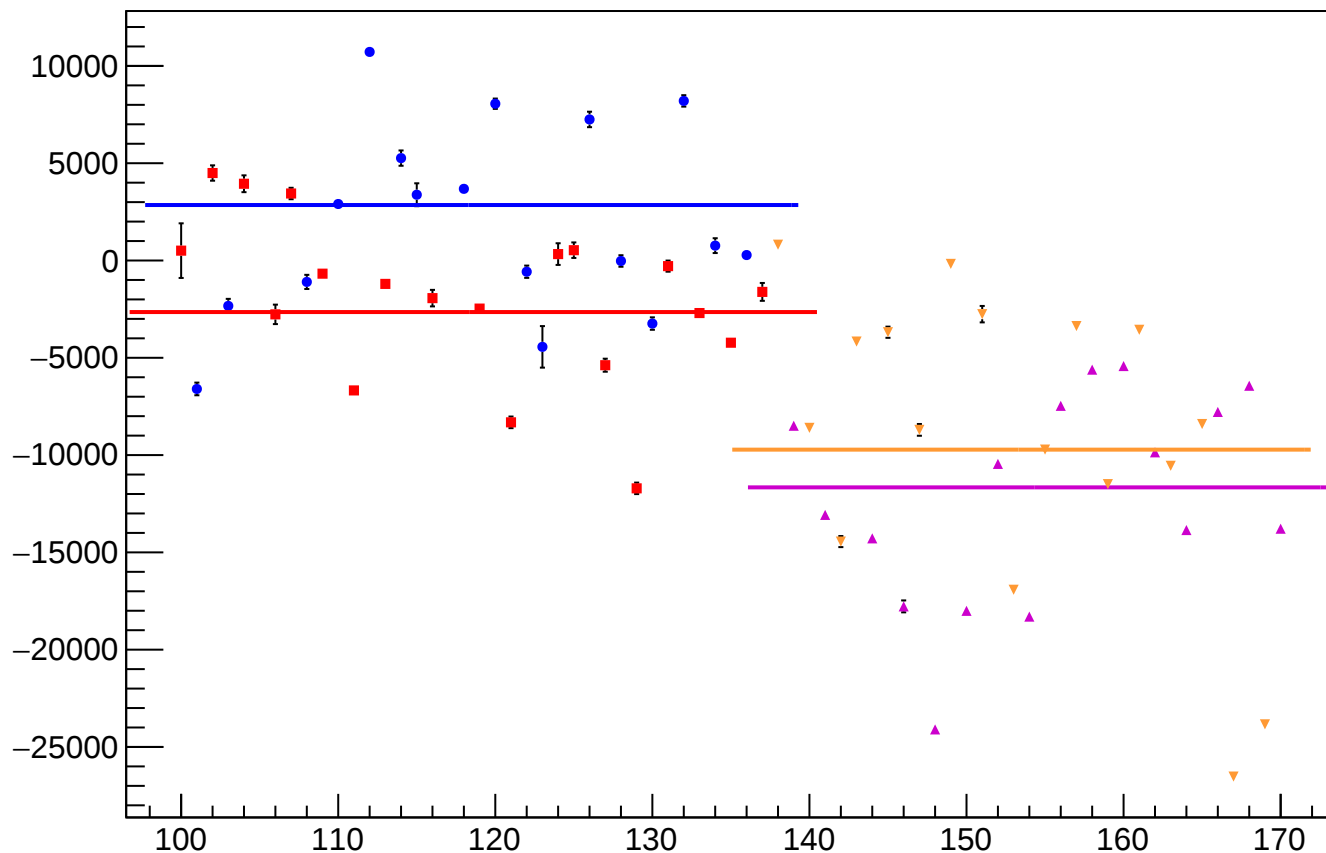
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.656 $\pm$ 0.026 χ^2 /NDF: 1812683.0/32

Out: 151.602 $\pm$ 0.025 χ^2 /NDF: 2328451.7/35

All: 152.599 $\pm$ 0.018 χ^2 /NDF: 4144359.8/68

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 ± 70.753 $\chi^2/\text{NDF}: 4178.1/16$

Left Out: -9720.201 ± 55.084 $\chi^2/\text{NDF}: 20854.8/16$

Right Out: -2649.142 ± 65.731 $\chi^2/\text{NDF}: 3175.7/18$

Left In: -11659.292 ± 50.229 $\chi^2/\text{NDF}: 10588.8/15$

Left: -10778.953 ± 37.115 $\chi^2/\text{NDF}: 32120.2/32$

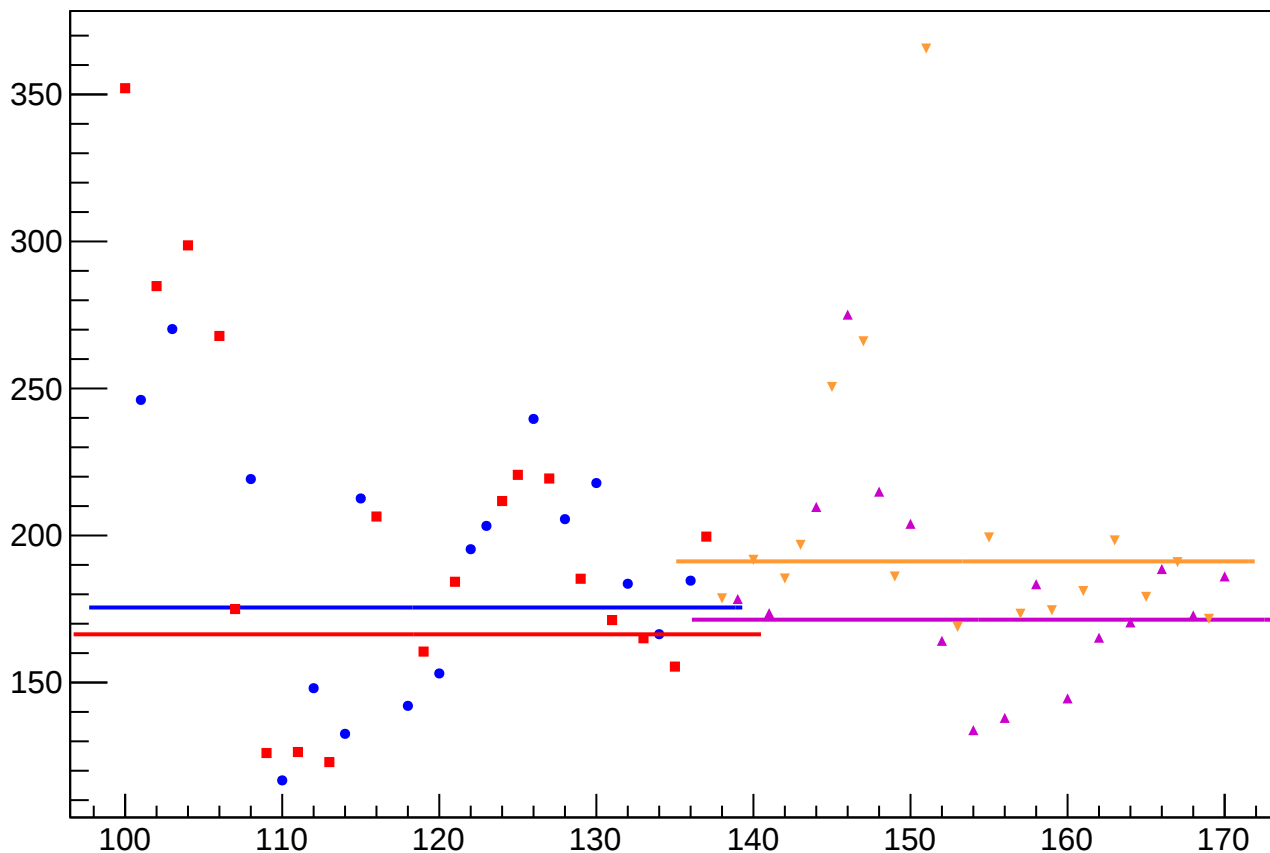
Right: -100.998 ± 48.156 $\chi^2/\text{NDF}: 10597.9/35$

In: -6796.806 ± 40.957 $\chi^2/\text{NDF}: 42733.8/32$

Out: -6803.014 ± 42.219 $\chi^2/\text{NDF}: 30828.7/35$

All: -6799.816 ± 29.397 $\chi^2/\text{NDF}: 73562.6/68$

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 191.200 $\pm$ 0.039 χ^2 /NDF: 650099.6/16

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 171.369 $\pm$ 0.036 χ^2 /NDF: 696910.5/15

Left: 180.372 $\pm$ 0.026 χ^2 /NDF: 1488543.1/32

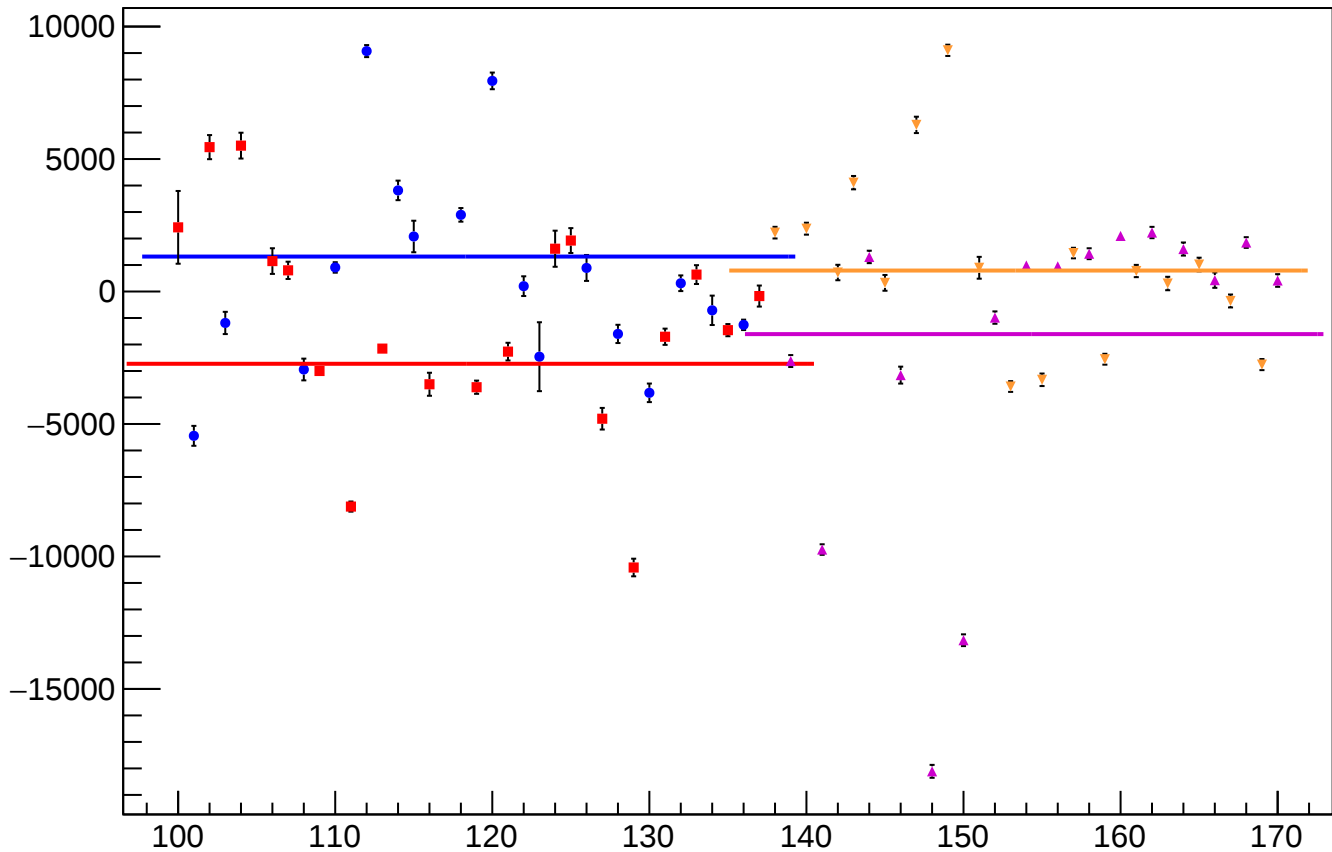
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 172.758 $\pm$ 0.029 χ^2 /NDF: 1391116.5/32

Out: 180.966 $\pm$ 0.030 χ^2 /NDF: 1746981.7/35

All: 176.738 $\pm$ 0.021 χ^2 /NDF: 3177037.2/68

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 $\pm$ 77.146 χ^2/NDF : 2667.0/16

Left Out: 791.421 $\pm$ 58.011 χ^2/NDF :3465.2/16

Right Out: -2727.798 $\pm$ 70.029 χ^2/NDF : 2495.9/18

Left In: -1608.050 $\pm$ 52.747 χ^2/NDF :11286.8/15

Left: -522.094 $\pm$ 39.026 χ^2/NDF : 15688.6/32

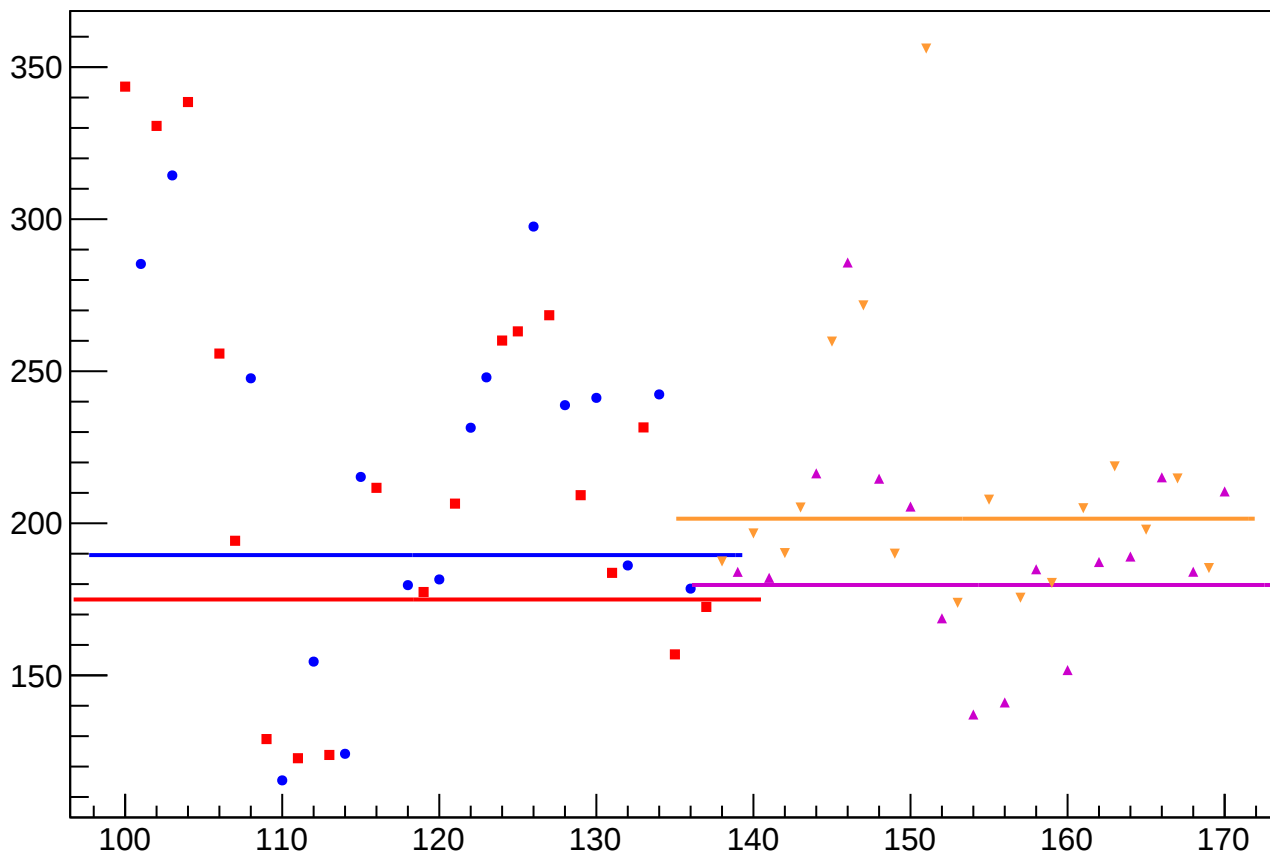
Right: -899.614 $\pm$ 51.852 χ^2/NDF : 6671.5/35

In: -675.591 $\pm$ 43.542 χ^2/NDF :14934.8/32

Out: -640.745 $\pm$ 44.674 χ^2/NDF :7458.8/35

All: -658.615 $\pm$ 31.181 χ^2/NDF : 22393.9/68

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 201.512+/-0.041 χ^2/NDF : 600944.7/16

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 179.714+/-0.037 χ^2/NDF : 737321.8/15

Left: 189.579+/-0.028 χ^2/NDF : 1492850.2/32

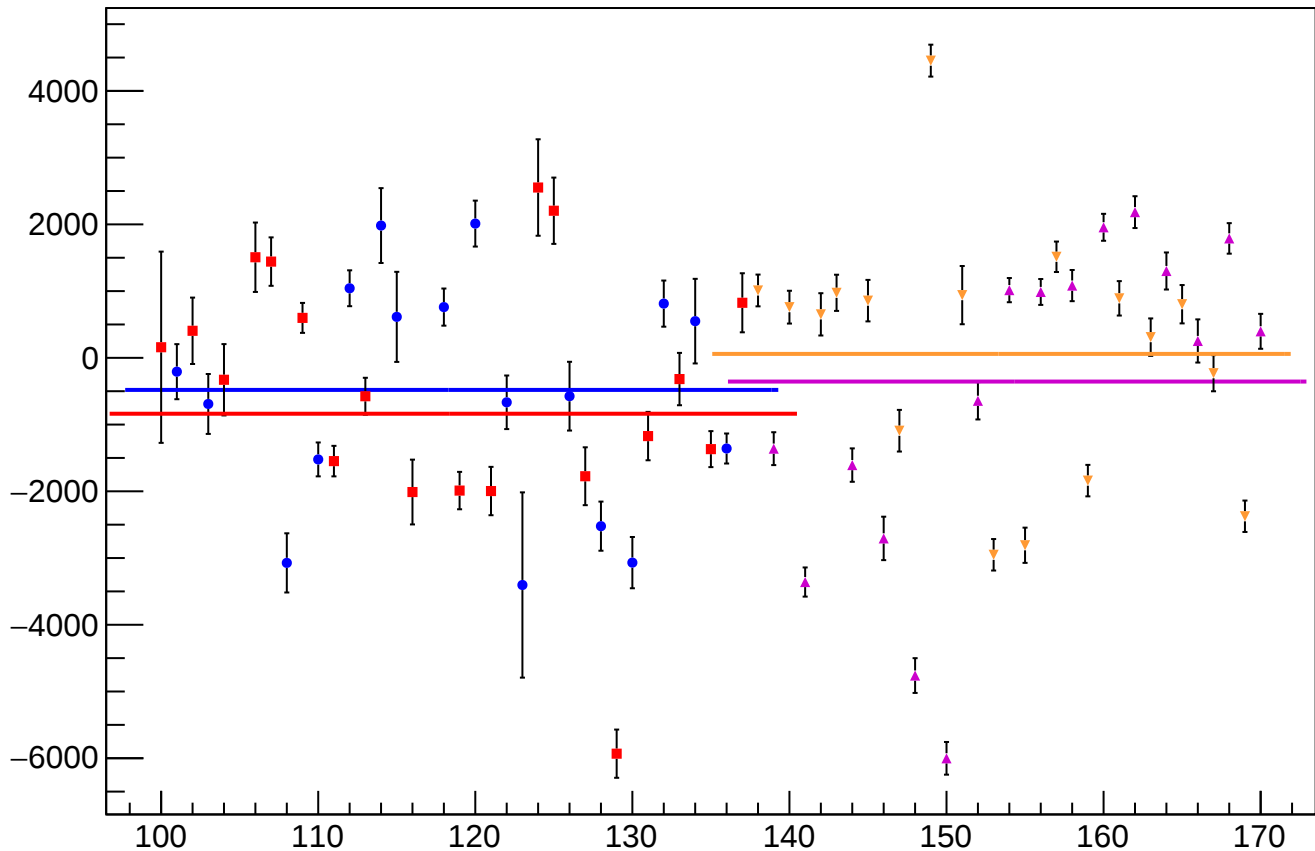
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 182.845+/-0.031 χ^2/NDF : 1740197.8/32

Out: 190.700+/-0.032 χ^2/NDF : 2068768.2/35

All: 186.672+/-0.022 χ^2/NDF : 3840669.1/68

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: -355.426 $\pm$ 59.689 χ^2/NDF : 1623.9/15

Left: -163.496 $\pm$ 43.736 χ^2/NDF : 2558.9/32

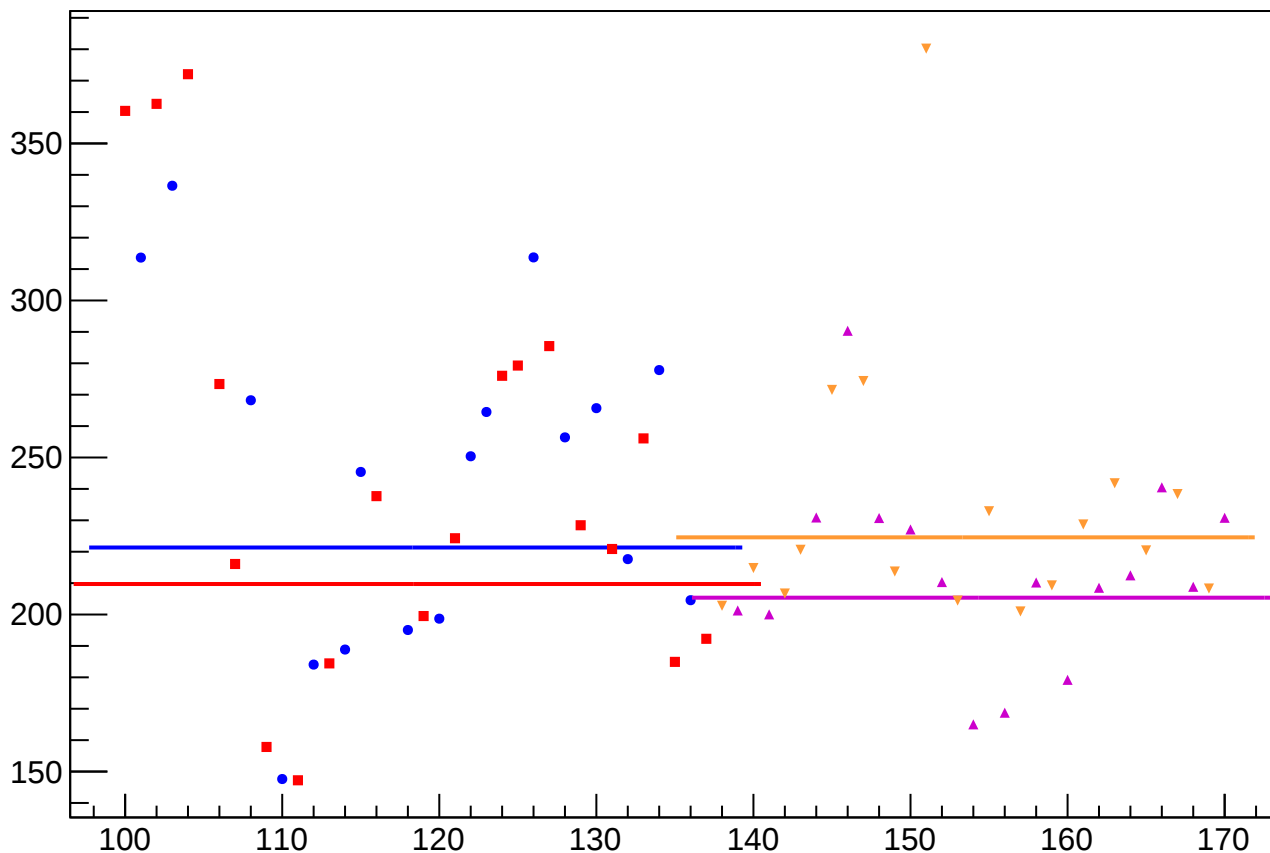
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -394.471 $\pm$ 49.510 χ^2/NDF : 1916.0/32

Out: -280.862 $\pm$ 50.640 χ^2/NDF : 1421.7/35

All: -338.948 $\pm$ 35.402 χ^2/NDF : 3340.3/68

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: 205.363+/-0.042 χ^2/NDF : 443560.5/15

Left: 214.261+/-0.031 χ^2/NDF : 990815.0/32

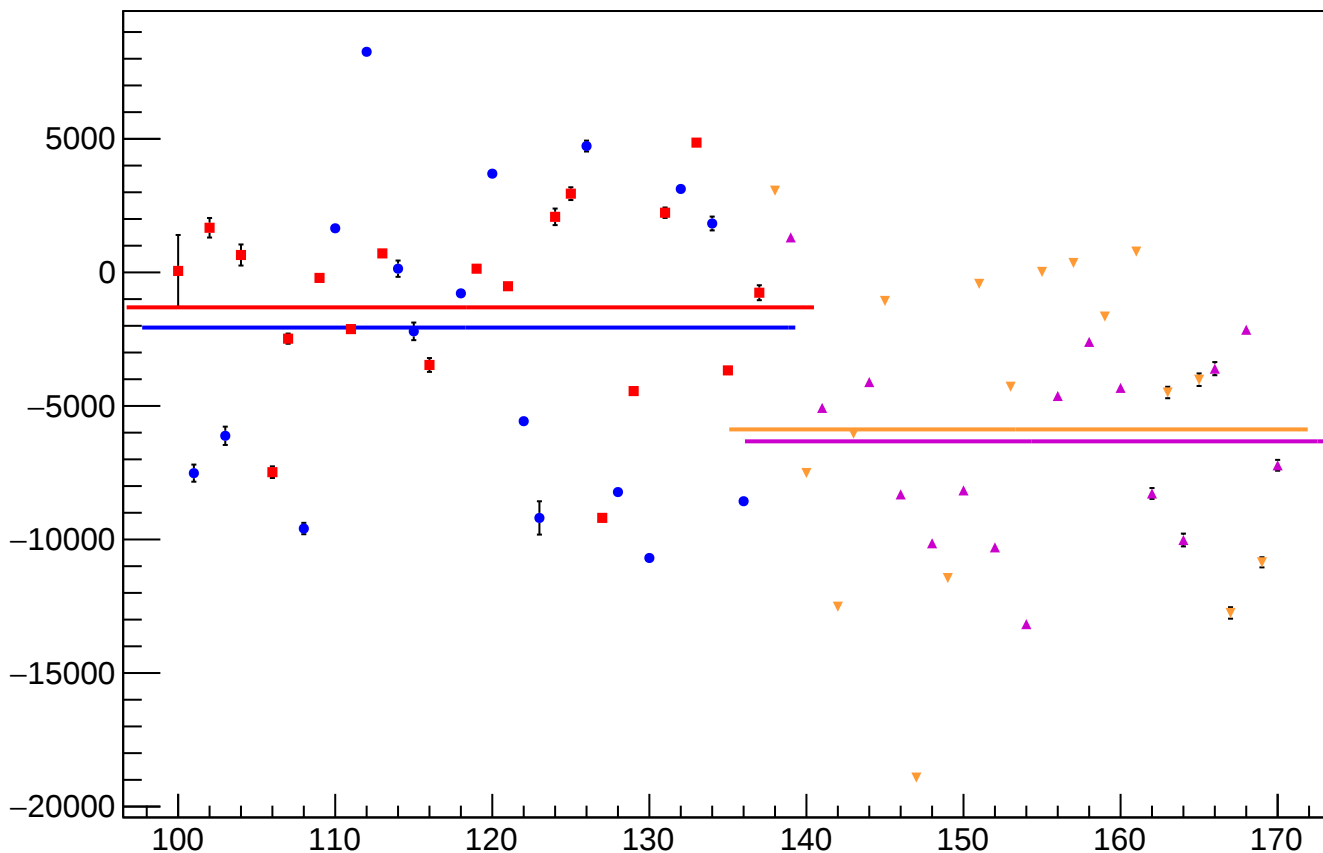
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 210.348+/-0.035 χ^2/NDF : 1133965.8/32

Out: 218.942+/-0.036 χ^2/NDF : 1375743.3/35

All: 214.548+/-0.025 χ^2/NDF : 2539159.2/68

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: -6325.366 $\pm$ 37.434 χ^2/NDF : 9649.1/15

Left: -6097.561 $\pm$ 26.202 χ^2/NDF : 39749.3/32

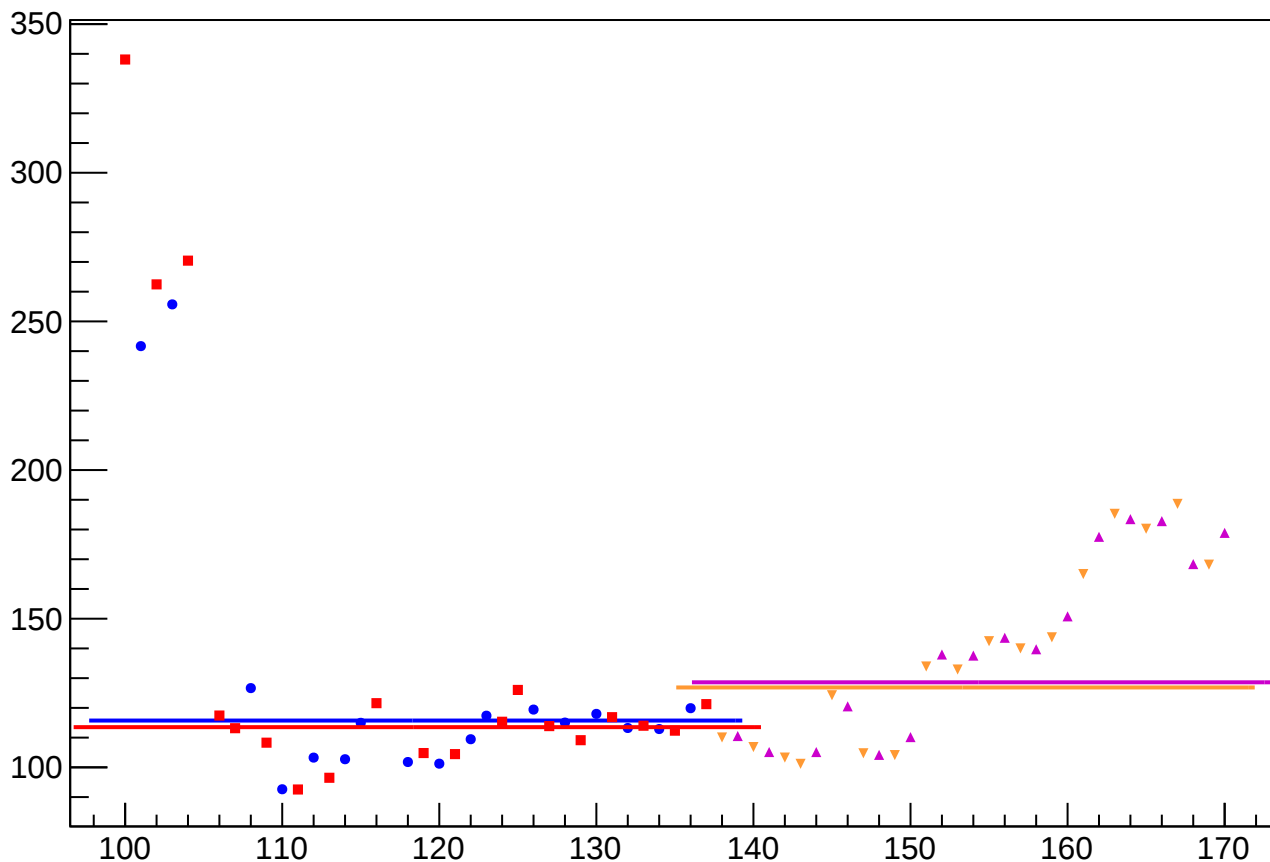
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4685.603 $\pm$ 29.359 χ^2/NDF : 31167.5/32

Out: -4053.901 $\pm$ 28.436 χ^2/NDF : 42117.7/35

All: -4359.666 $\pm$ 20.426 χ^2/NDF : 73524.1/68

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: 128.604+/-0.026 χ^2/NDF : 950273.2/15

Left: 127.721+/-0.019 χ^2/NDF : 1968051.3/32

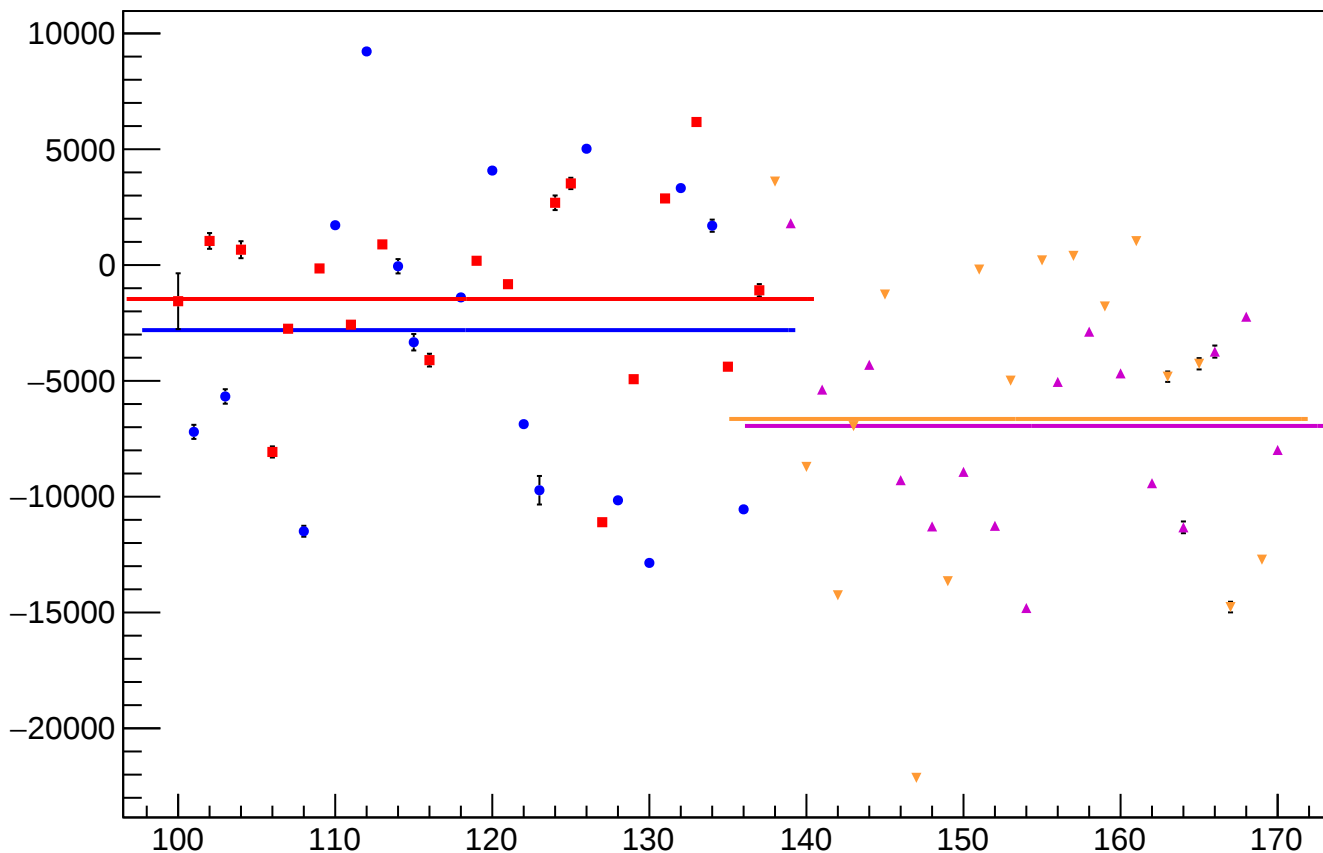
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 123.653+/-0.021 χ^2/NDF : 1785197.0/32

Out: 121.540+/-0.020 χ^2/NDF : 1918004.3/35

All: 122.563+/-0.014 χ^2/NDF : 3708547.1/68

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: -6945.493+/-39.759 χ^2/NDF : 11373.1/15

Left: -6791.668+/-27.824 χ^2/NDF : 47773.2/32

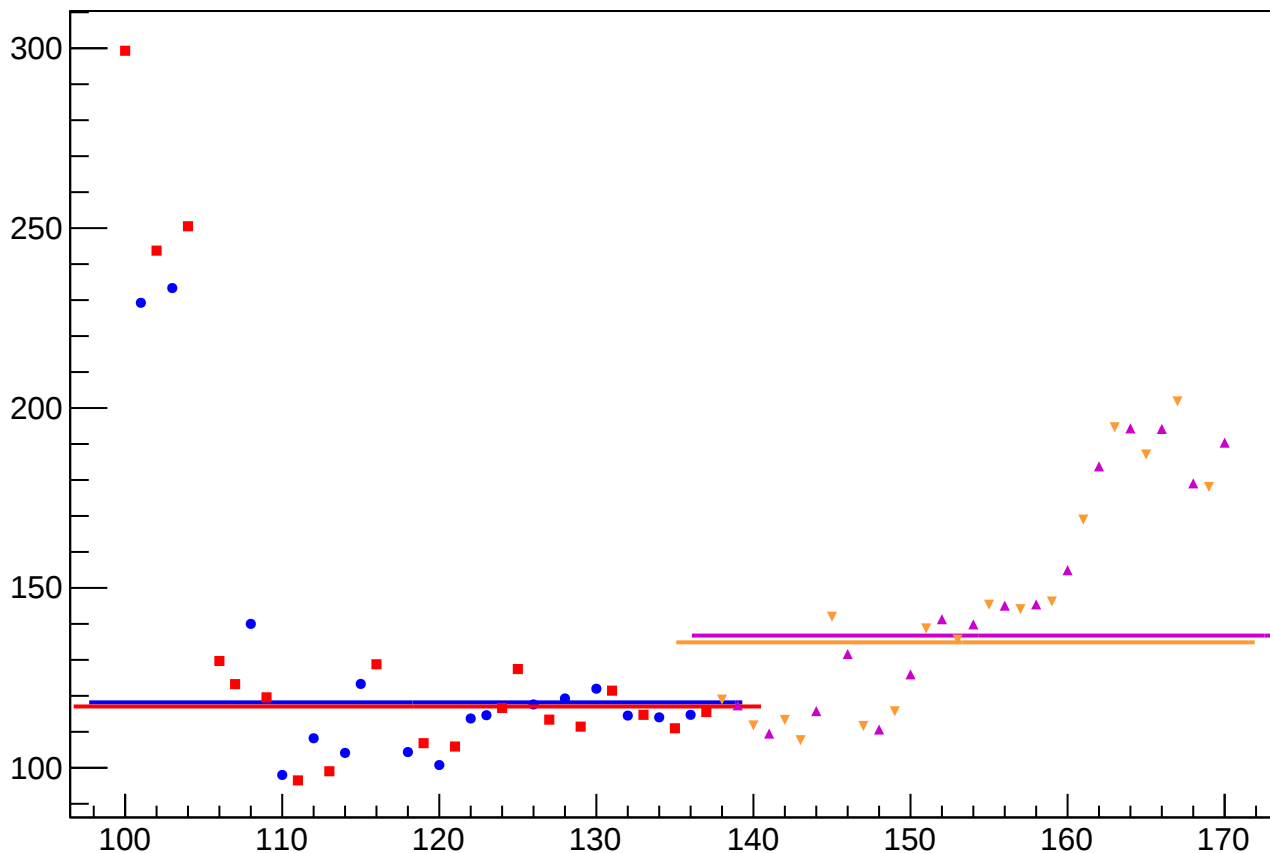
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5274.095+/-30.693 χ^2/NDF : 37009.7/32

Out: -4502.798+/-29.832 χ^2/NDF : 51684.4/35

All: -4877.474+/-21.392 χ^2/NDF : 89018.8/68

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2/NDF : 636252.0/16

Left Out: 134.872 $\pm$ 0.028 χ^2/NDF : 897615.7/16

Right Out: 117.046 $\pm$ 0.033 χ^2/NDF : 690635.5/18

Left In: 136.752 $\pm$ 0.028 χ^2/NDF : 843803.4/15

Left: 135.793 $\pm$ 0.020 χ^2/NDF : 1743699.5/32

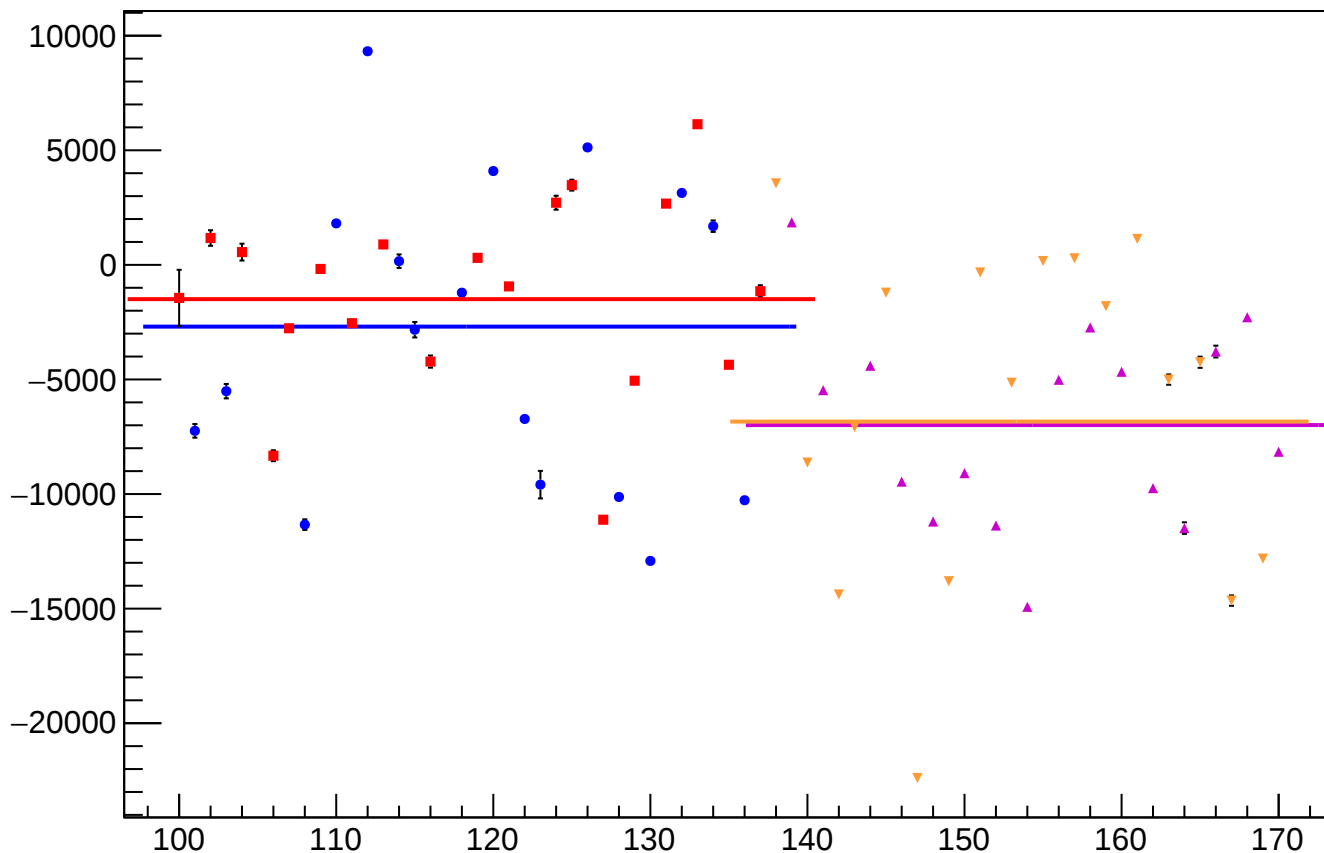
Right: 117.594 $\pm$ 0.024 χ^2/NDF : 1327469.8/35

In: 129.251 $\pm$ 0.022 χ^2/NDF : 1656221.4/32

Out: 127.502 $\pm$ 0.021 χ^2/NDF : 1761448.2/35

All: 128.351 $\pm$ 0.015 χ^2/NDF : 3421008.7/68

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: -6990.293+/-38.733 χ^2/NDF : 12241.7/15

Left: -6912.802+/-27.134 χ^2/NDF : 51744.9/32

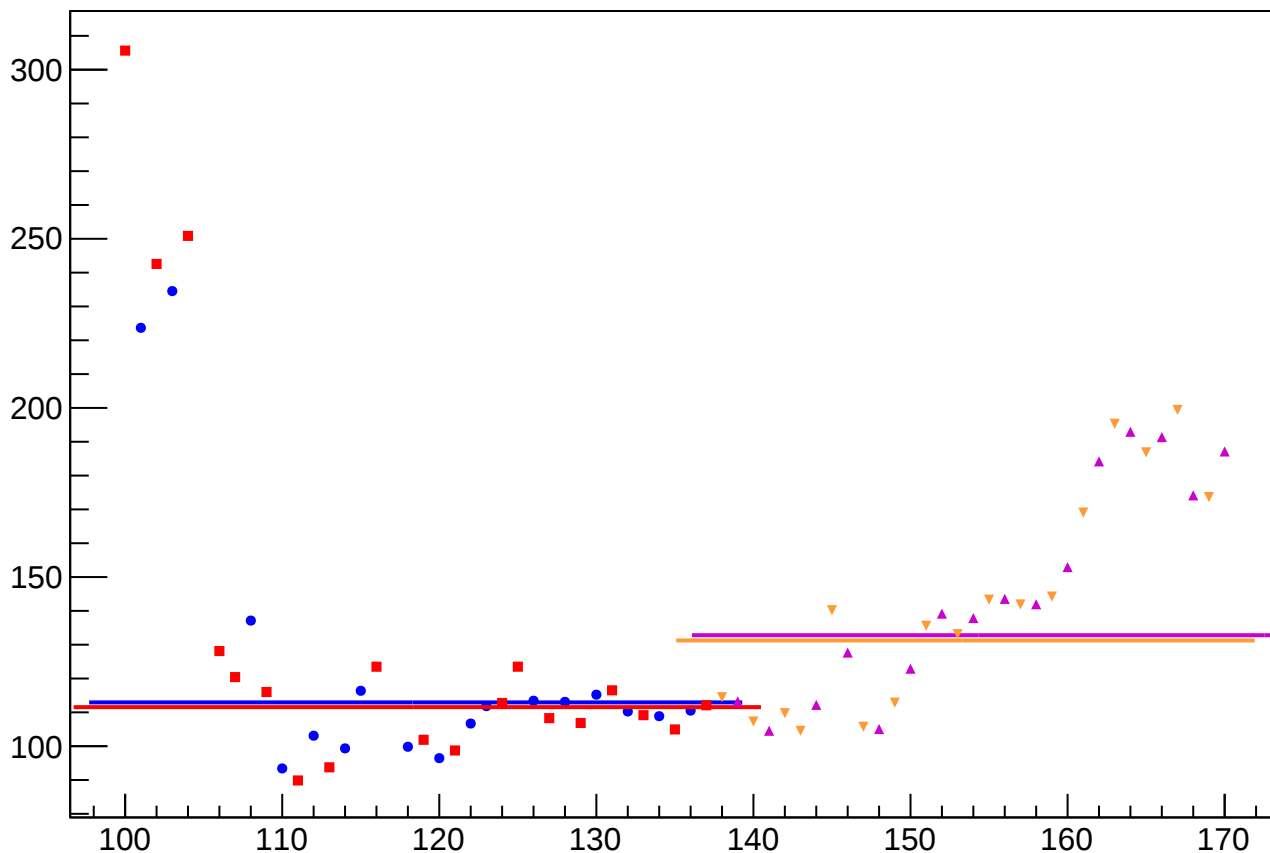
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5223.706+/-29.721 χ^2/NDF : 40160.8/32

Out: -4580.293+/-28.893 χ^2/NDF : 56554.8/35

All: -4892.922+/-20.717 χ^2/NDF : 96956.5/68

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940+/-0.033 χ^2/NDF : 680283.1/16

Left Out: 131.252+/-0.027 χ^2/NDF :1006651.1/16

Right Out: 111.544+/-0.031 χ^2/NDF : 765502.6/18

Left In: 132.806+/-0.027 χ^2/NDF :944499.9/15

Left: 132.015+/-0.019 χ^2/NDF : 1952790.9/32

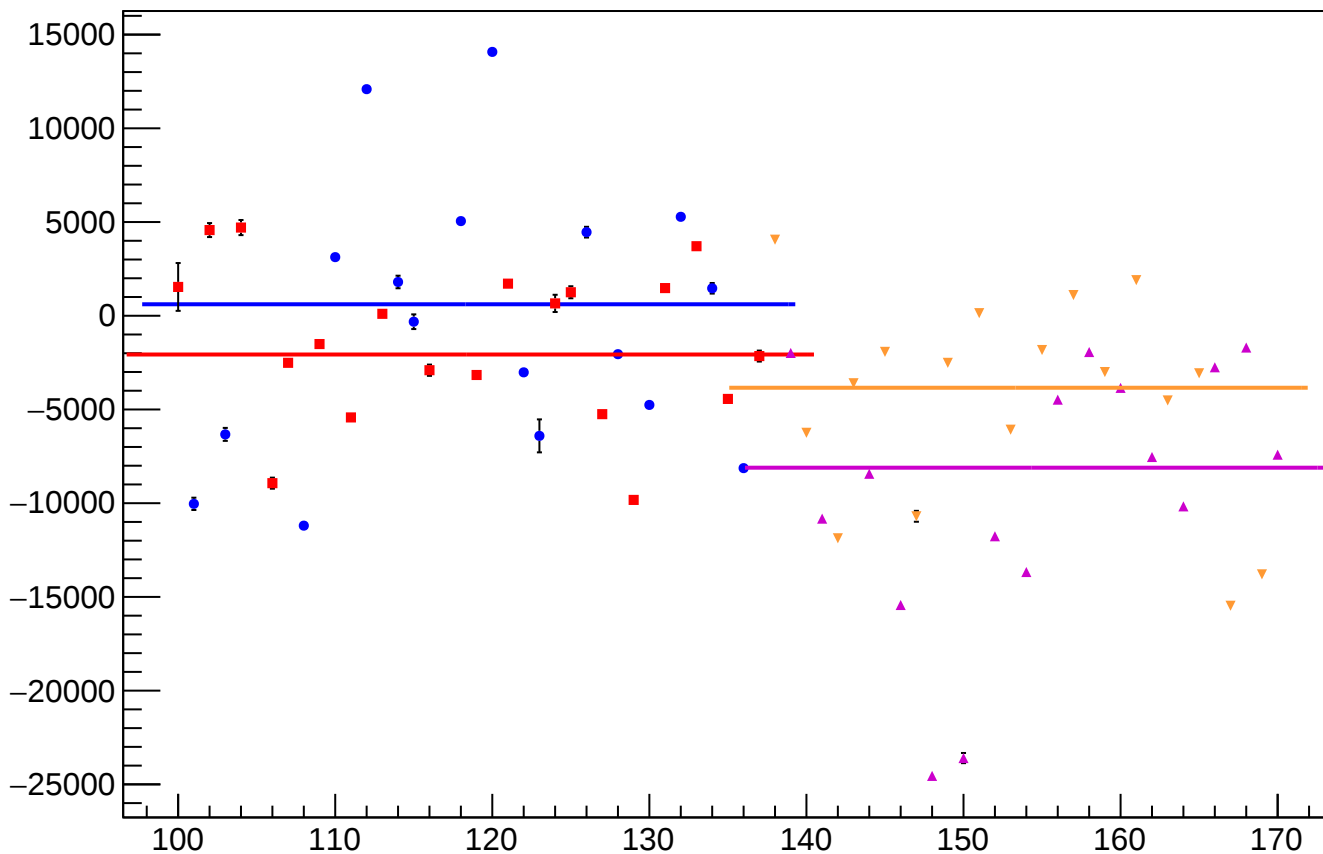
Right: 112.213+/-0.023 χ^2/NDF : 1446732.2/35

In: 124.637+/-0.021 χ^2/NDF :1841136.6/32

Out: 122.923+/-0.020 χ^2/NDF :1999224.0/35

All: 123.756+/-0.015 χ^2/NDF : 3843782.2/68

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: -8106.176 ± 46.527 $\chi^2/\text{NDF}: 16011.8/15$

Left: -5897.474 ± 32.308 $\chi^2/\text{NDF}: 33923.7/32$

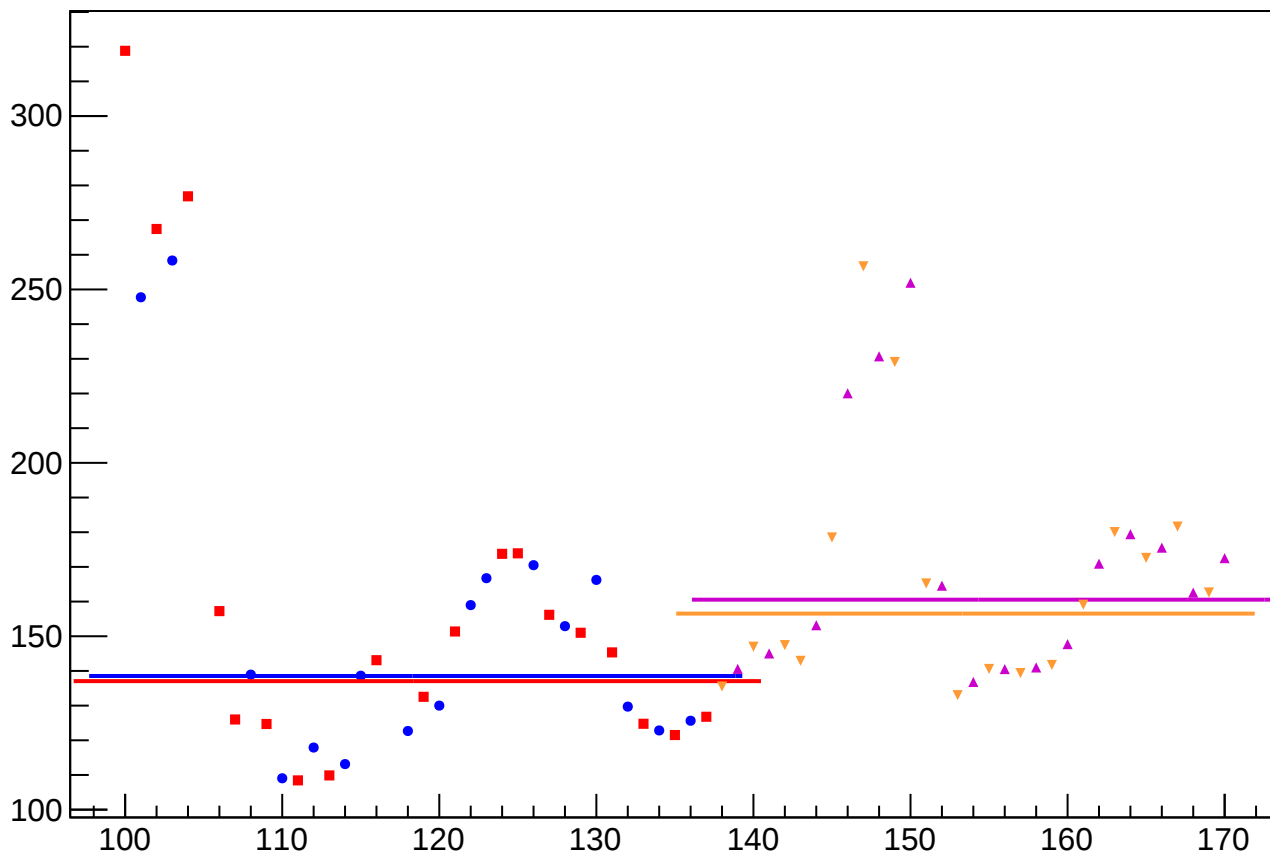
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4550.181 ± 35.803 $\chi^2/\text{NDF}: 48577.4/32$

Out: -3114.780 ± 34.506 $\chi^2/\text{NDF}: 18841.1/35$

All: -3806.004 ± 24.845 $\chi^2/\text{NDF}: 68251.8/68$

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: 160.549 $\pm$ 0.033 χ^2 /NDF: 697906.3/15

Left: 158.468 $\pm$ 0.023 χ^2 /NDF: 1364610.4/32

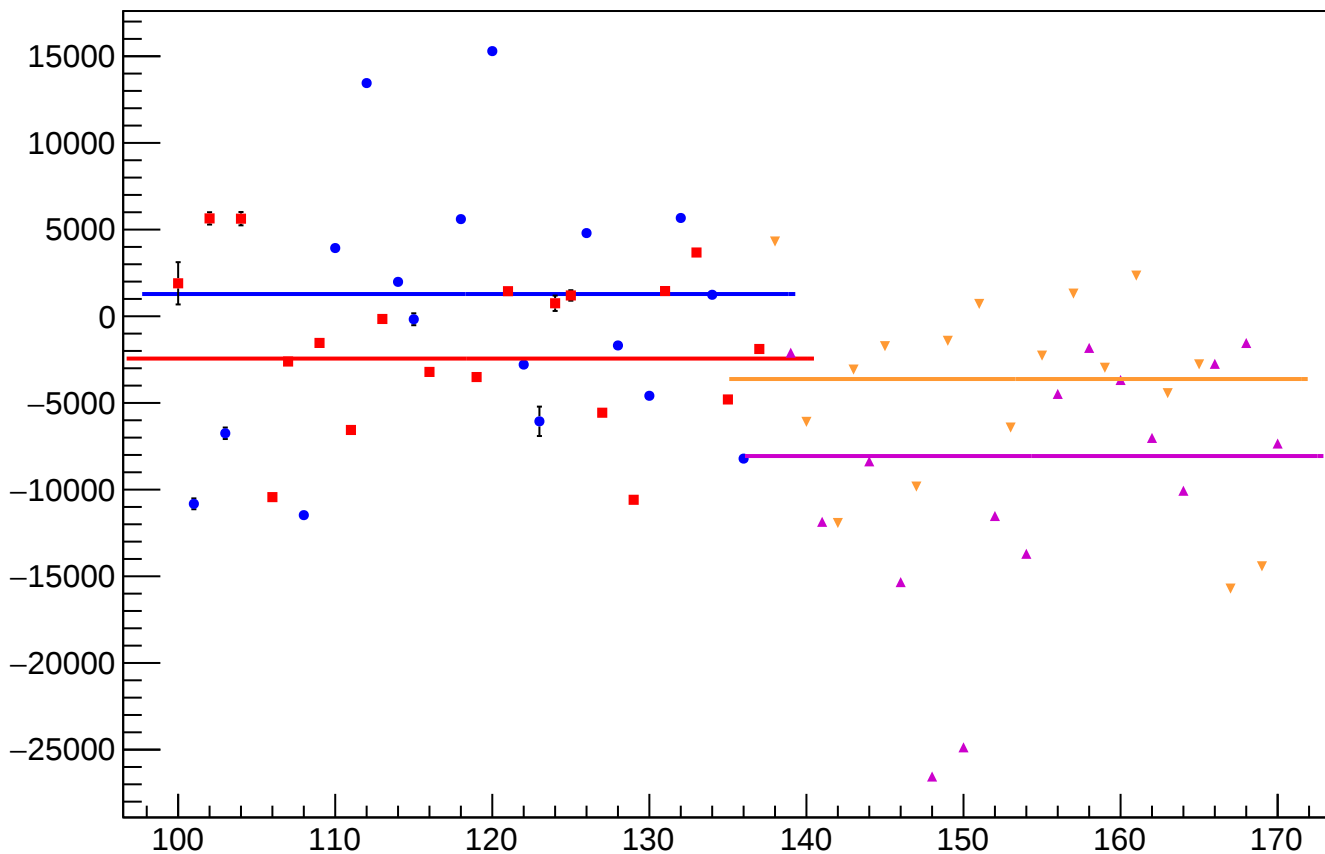
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 151.573 $\pm$ 0.025 χ^2 /NDF: 1549342.4/32

Out: 148.561 $\pm$ 0.024 χ^2 /NDF: 1568437.1/35

All: 150.011 $\pm$ 0.018 χ^2 /NDF: 3125120.6/68

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -3620.103+/-40.116 χ^2/NDF :17844.0/16

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -8062.798+/-41.750 χ^2/NDF :21113.5/15

Left: -5752.841+/-28.927 χ^2/NDF : 44845.3/32

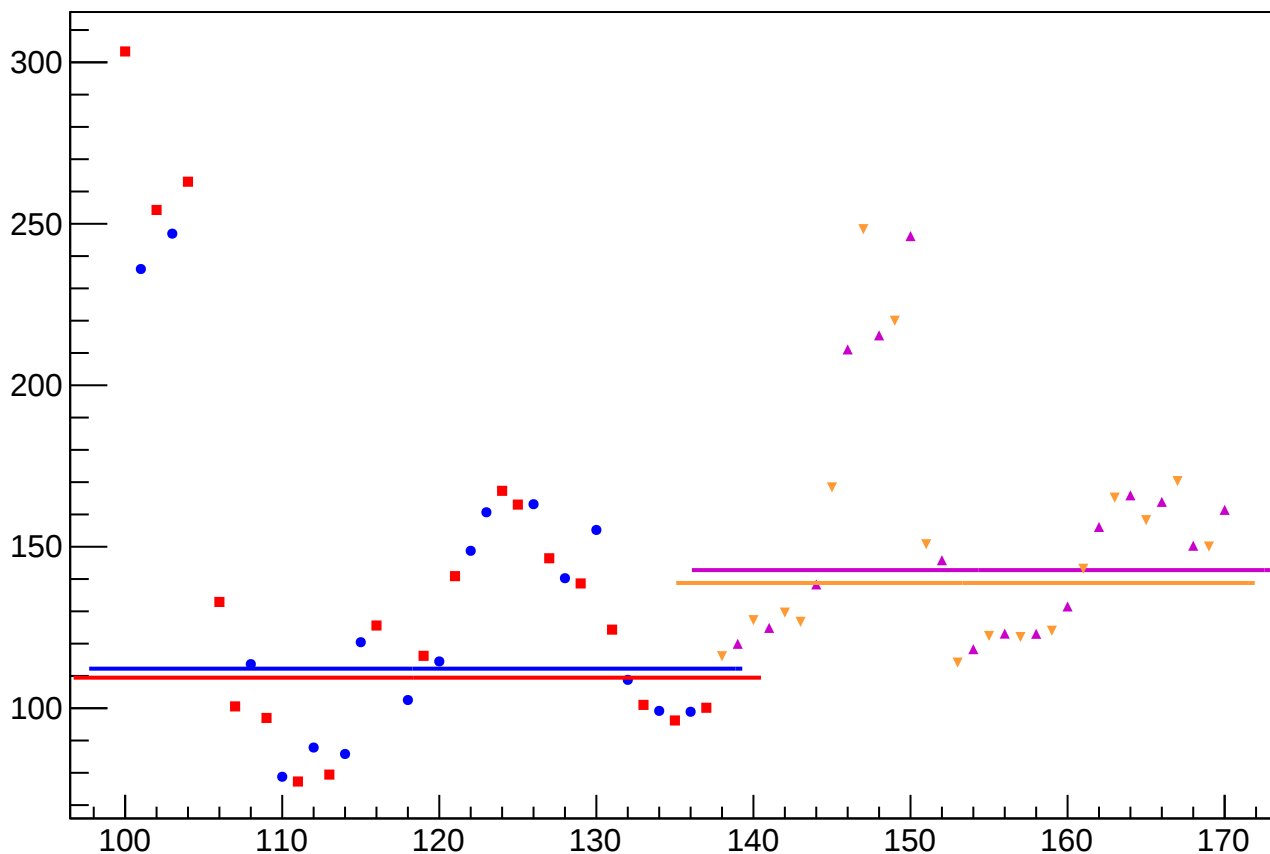
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3898.705+/-31.087 χ^2/NDF :73981.5/32

Out: -3088.328+/-29.732 χ^2/NDF :25911.4/35

All: -3475.464+/-21.487 χ^2/NDF : 100247.8/6

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: 142.769 $\pm$ 0.030 χ^2/NDF : 970640.5/15

Left: 140.696 $\pm$ 0.020 χ^2/NDF : 1911736.0/32

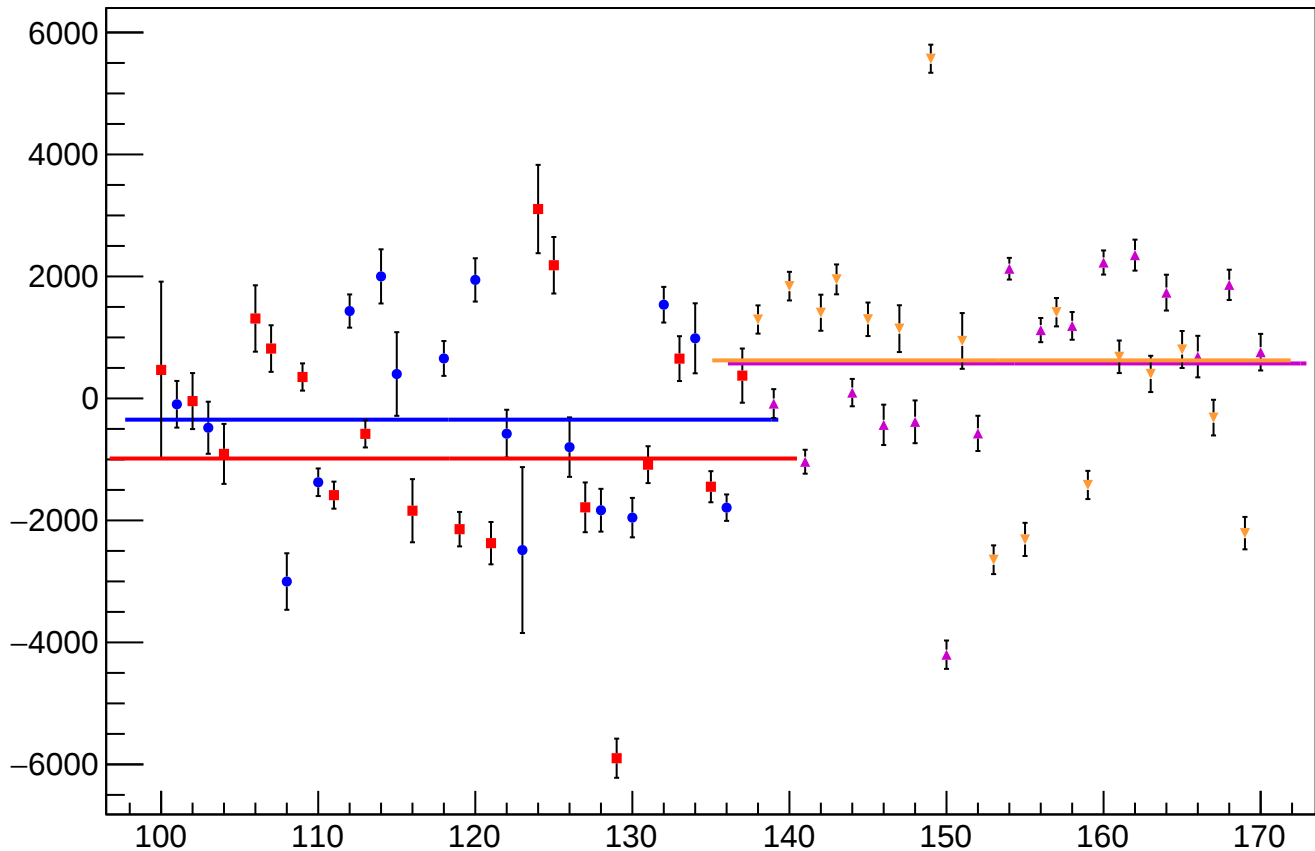
Right: 110.785 $\pm$ 0.023 χ^2/NDF : 2398941.6/35

In: 129.171 $\pm$ 0.022 χ^2/NDF : 2572325.7/32

Out: 125.567 $\pm$ 0.021 χ^2/NDF : 2682862.4/35

All: 127.289 $\pm$ 0.015 χ^2/NDF : 5269231.2/68

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 $\pm$ 83.826 χ^2/NDF : 317.3/16

Left Out: 623.708 $\pm$ 64.632 χ^2/NDF :1064.3/16

Right Out: -985.242 $\pm$ 77.683 χ^2/NDF : 476.6/18

Left In: 573.675 $\pm$ 60.144 χ^2/NDF :786.6/15

Left: 596.894 $\pm$ 44.029 χ^2/NDF : 1851.2/32

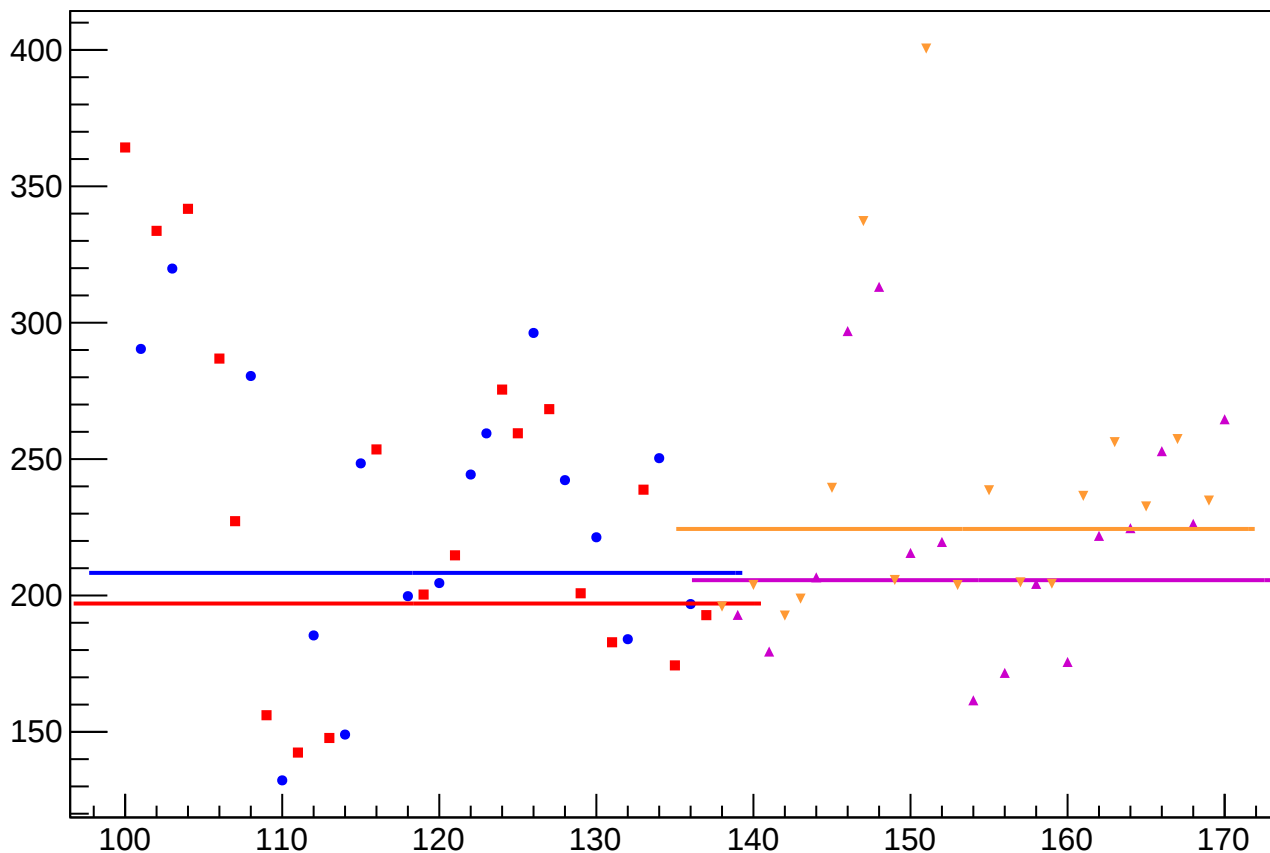
Right: -690.850 $\pm$ 56.978 χ^2/NDF : 824.9/35

In: 260.437 $\pm$ 48.867 χ^2/NDF :1183.7/32

Out: -34.448 $\pm$ 49.684 χ^2/NDF :1794.3/35

All: 115.440 $\pm$ 34.840 χ^2/NDF : 2995.9/68

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: 205.616+/-0.043 χ^2/NDF : 764004.1/15

Left: 214.331+/-0.031 χ^2/NDF : 1540962.0/32

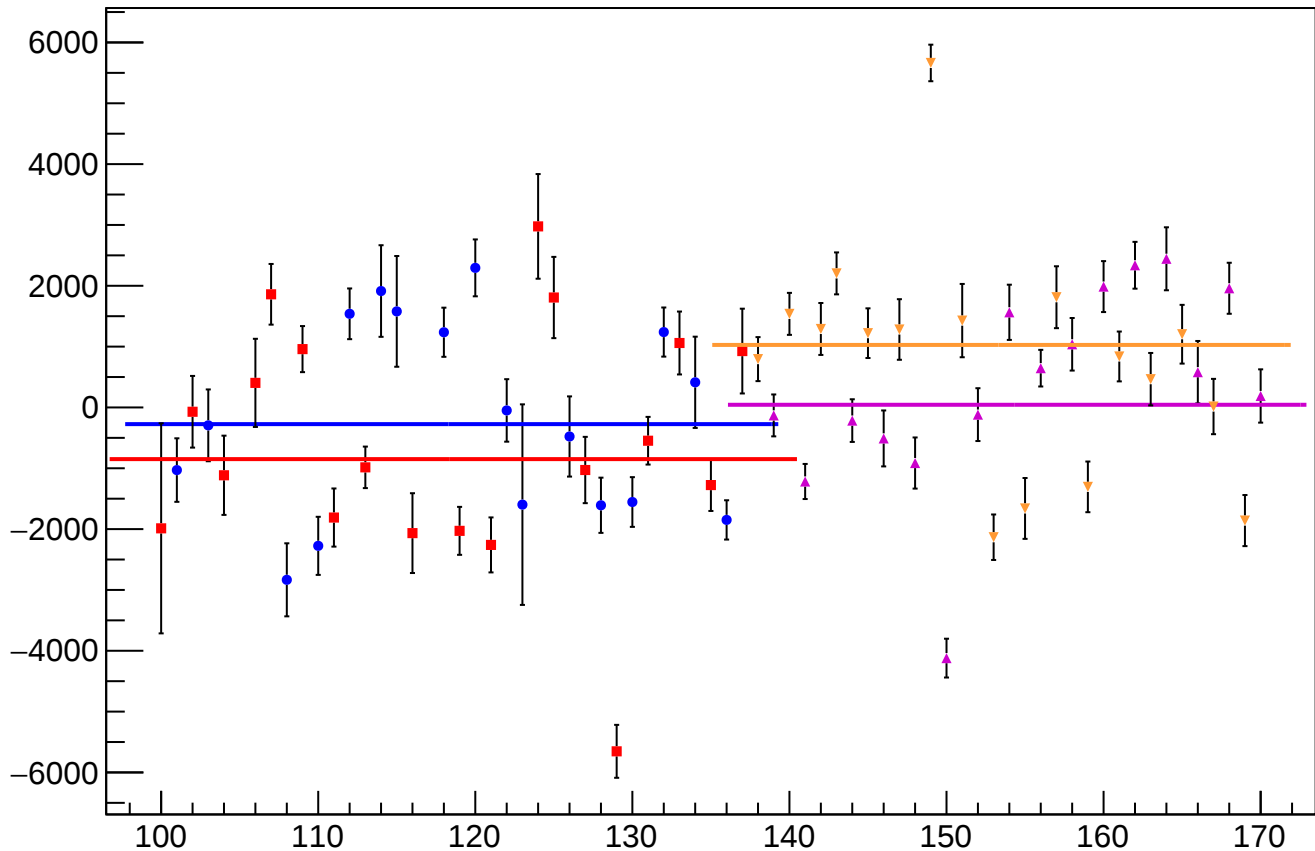
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 206.524+/-0.035 χ^2/NDF : 1463836.3/32

Out: 213.210+/-0.035 χ^2/NDF : 1759690.4/35

All: 209.811+/-0.025 χ^2/NDF : 3241934.7/68

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 χ^2/NDF : 171.6/16

Left Out: 1027.743 ± 99.645 χ^2/NDF : 441.9/16

Right Out: -849.413 ± 115.349 χ^2/NDF : 263.3/18

Left In: 43.821 ± 97.022 χ^2/NDF : 318.2/15

Left: 522.665 ± 69.514 χ^2/NDF : 810.2/32

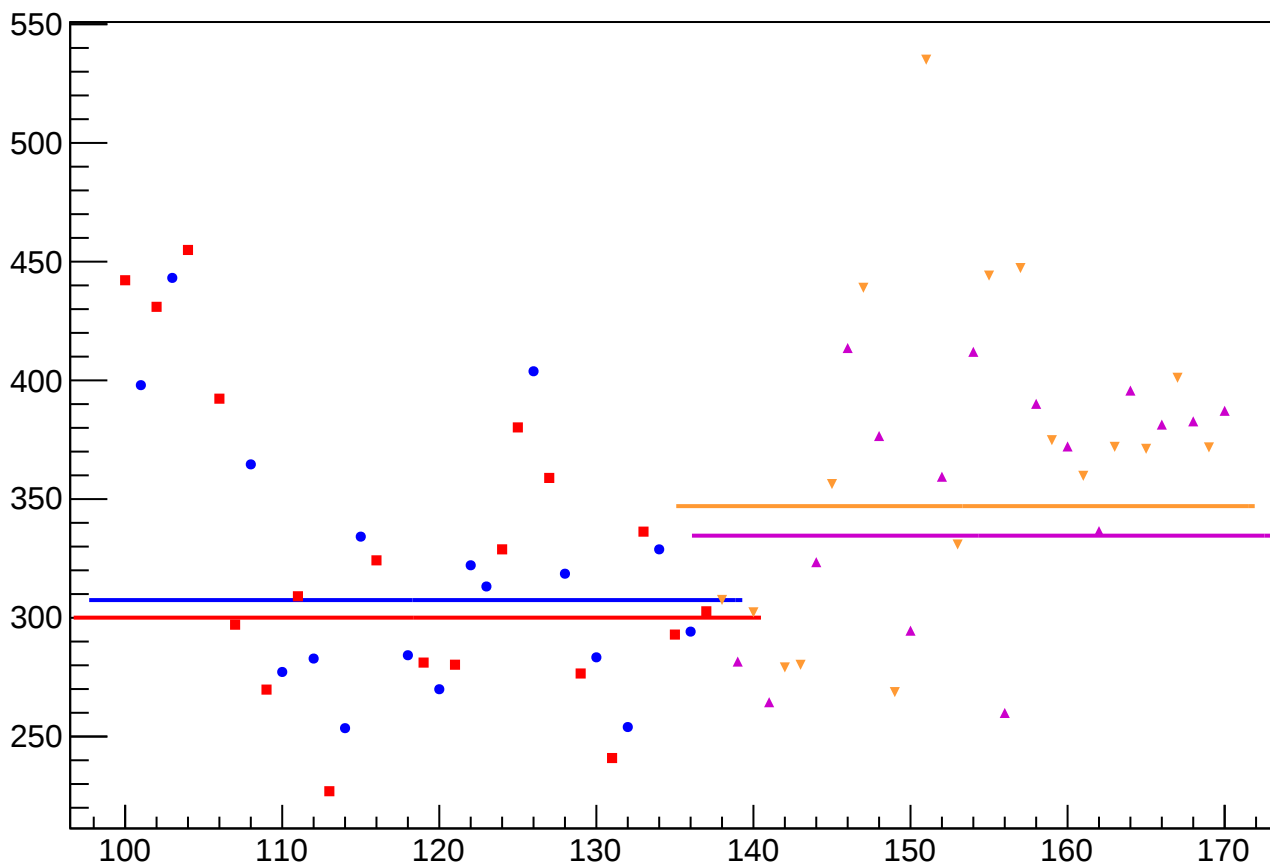
Right: -576.352 ± 83.597 χ^2/NDF : 446.6/35

In: -80.248 ± 75.773 χ^2/NDF : 494.0/32

Out: 225.554 ± 75.405 χ^2/NDF : 856.8/35

All: 73.398 ± 53.449 χ^2/NDF : 1359.0/68

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 347.037 $\pm$ 0.070 χ^2 /NDF: 797642.0/16

Right Out: 300.069 $\pm$ 0.082 χ^2 /NDF: 490398.9/18

Left In: 334.599 $\pm$ 0.069 χ^2 /NDF: 614814.5/15

Left: 340.652 $\pm$ 0.049 χ^2 /NDF: 1428451.3/32

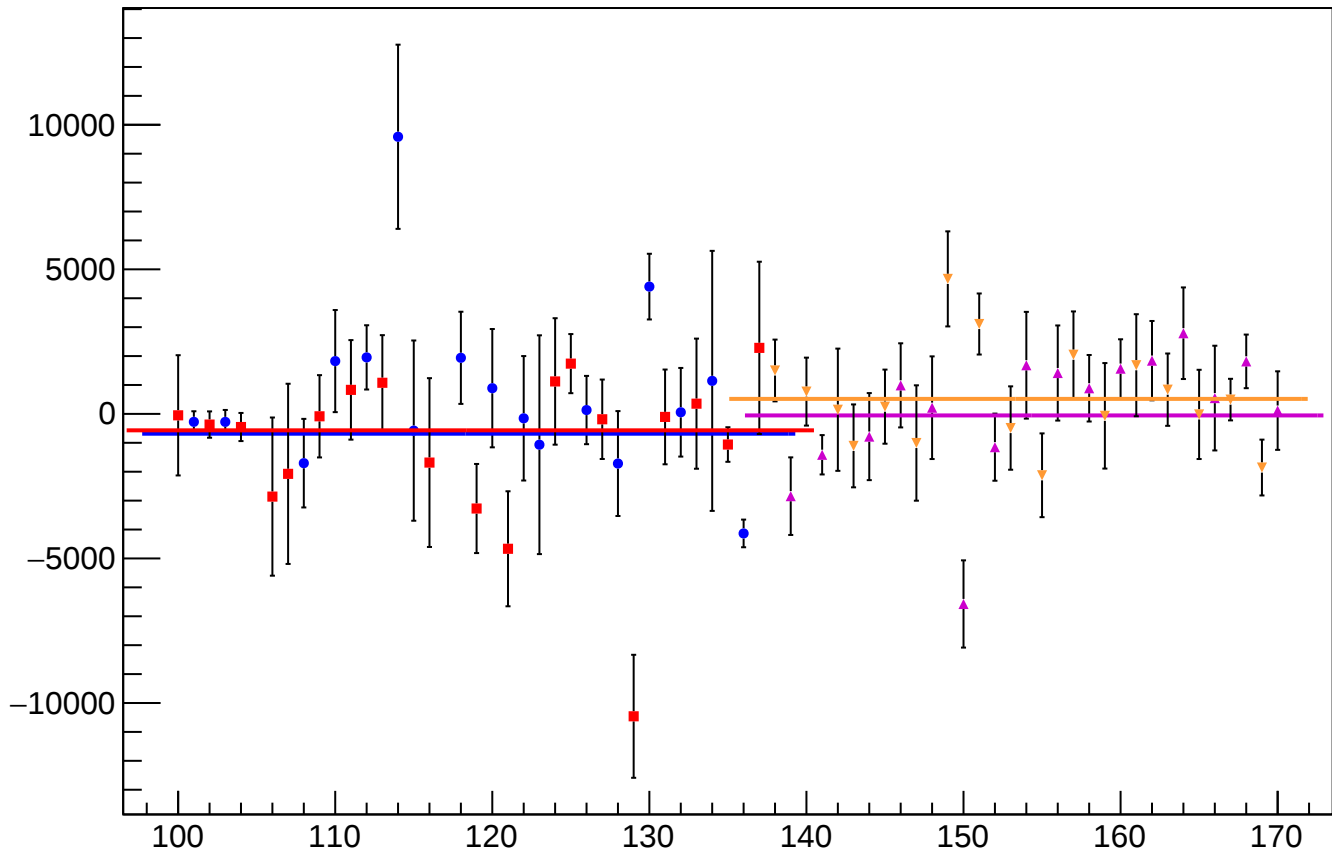
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 324.017 $\pm$ 0.054 χ^2 /NDF: 998915.7/32

Out: 326.966 $\pm$ 0.053 χ^2 /NDF: 1477925.8/35

All: 325.498 $\pm$ 0.038 χ^2 /NDF: 2478363.6/68

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056+/-210.341 χ^2/NDF : 97.4/16

Left Out: 518.831+/-308.210 χ^2/NDF :26.9/16

Right Out: -568.651+/-243.251 χ^2/NDF : 39.7/18

Left In: -53.059+/-309.293 χ^2/NDF :42.9/15

Left: 233.890+/-218.319 χ^2/NDF : 71.5/32

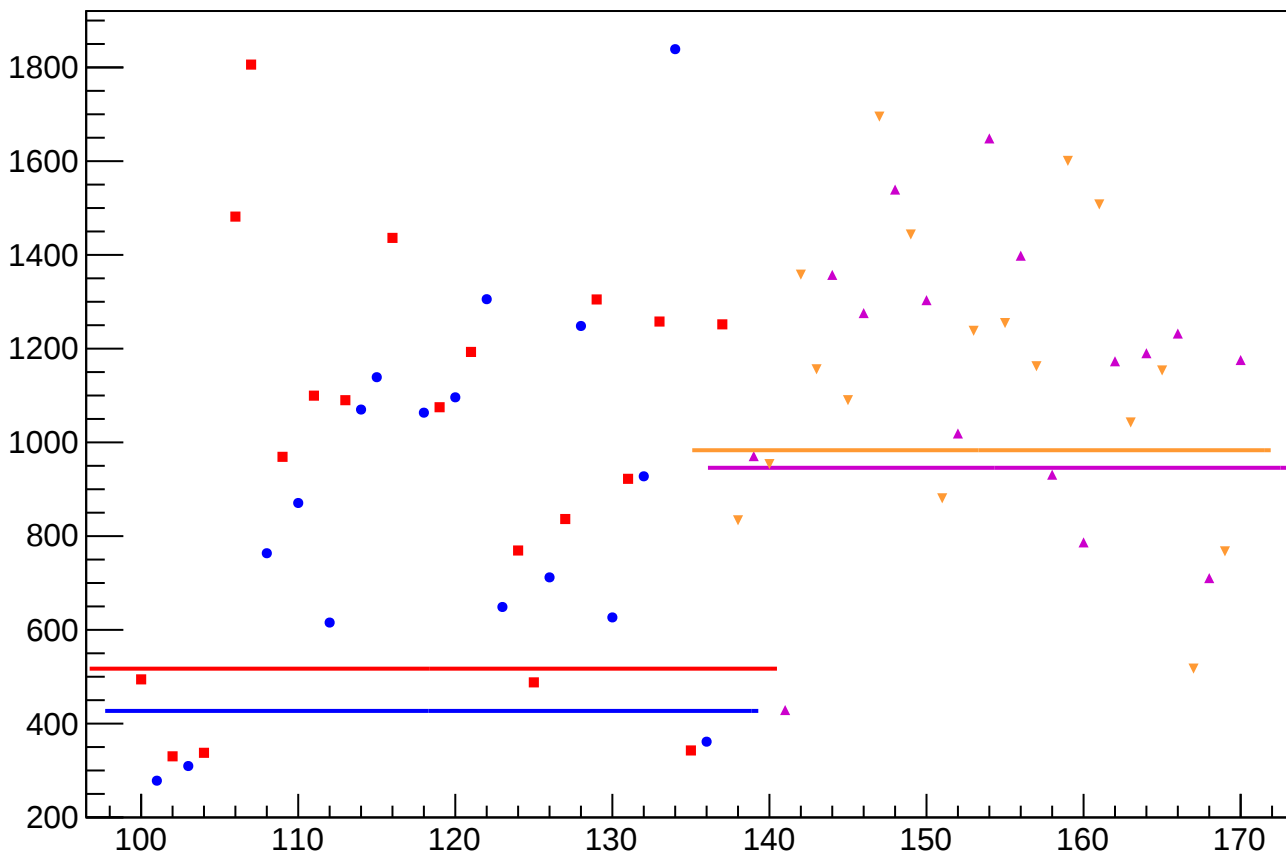
Right: -635.255+/-159.106 χ^2/NDF : 137.2/35

In: -485.195+/-173.931 χ^2/NDF :143.1/32

Out: -151.255+/-190.945 χ^2/NDF :74.2/35

All: -333.763+/-128.583 χ^2/NDF : 219.0/68

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: 945.775+/-0.219 χ^2/NDF : 2579837.9/15

Left: 964.582+/-0.154 χ^2/NDF : 4705776.5/32

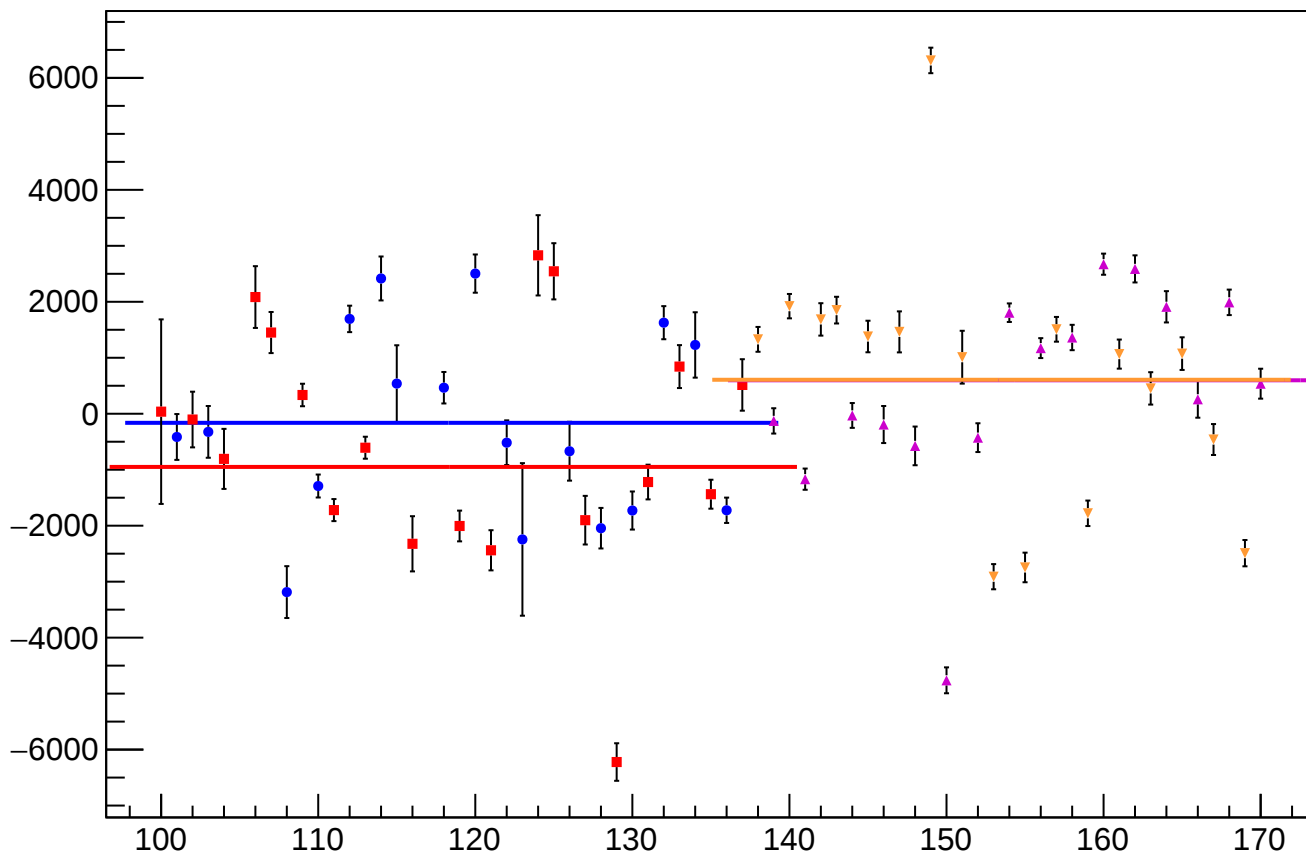
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 591.110+/-0.123 χ^2/NDF : 9291618.5/32

Out: 696.102+/-0.135 χ^2/NDF : 8533782.3/35

All: 638.721+/-0.091 χ^2/NDF : 18155879.3/68

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: 597.585±/57.087 χ^2/NDF :998.5/15

Left: 601.858±/42.067 χ^2/NDF : 2453.2/32

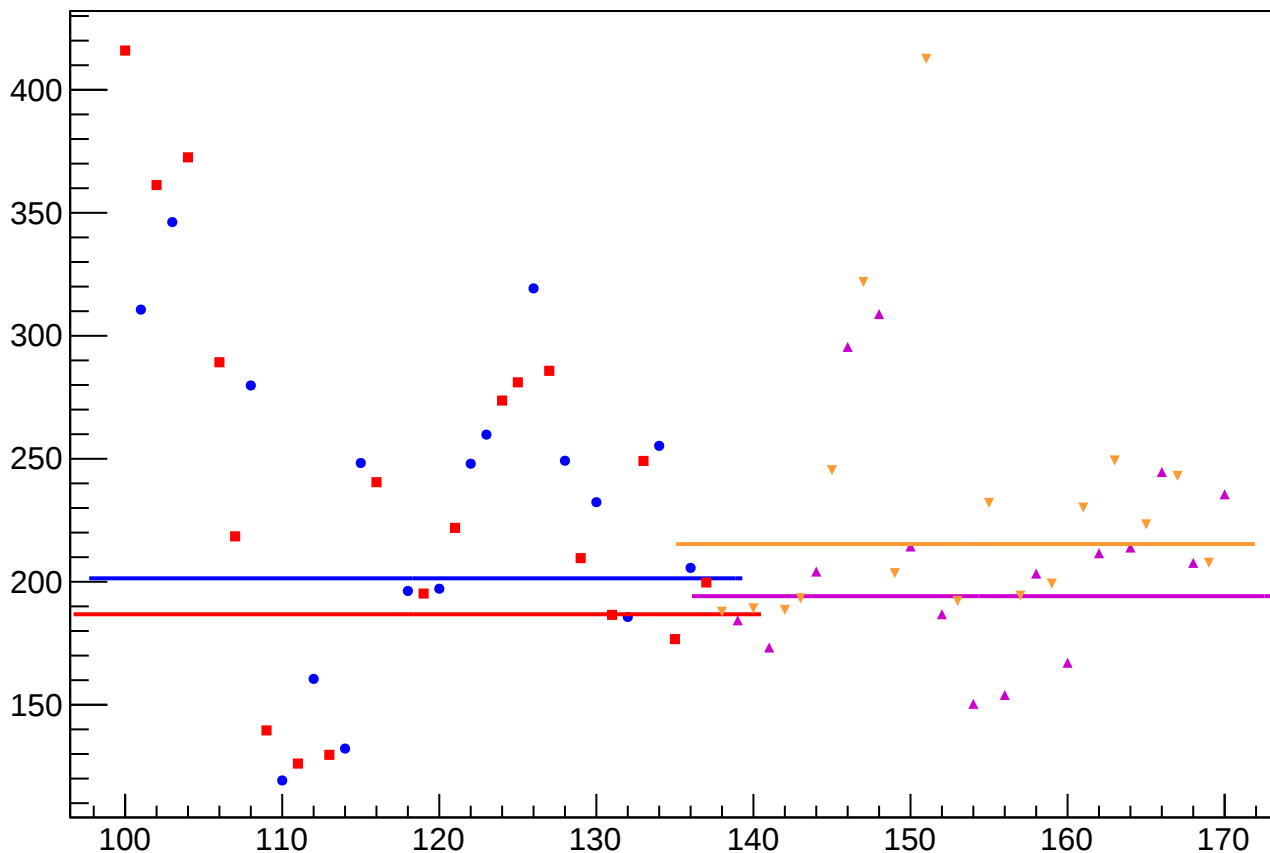
Right: -592.238±/55.504 χ^2/NDF : 977.3/35

In: 350.931±/46.916 χ^2/NDF :1443.6/32

Out: -26.568±/47.925 χ^2/NDF :2249.2/35

All: 166.194±/33.526 χ^2/NDF : 3724.5/68

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: 194.156+/-0.040 χ^2/NDF : 864948.9/15

Left: 203.837+/-0.030 χ^2/NDF : 1746208.5/32

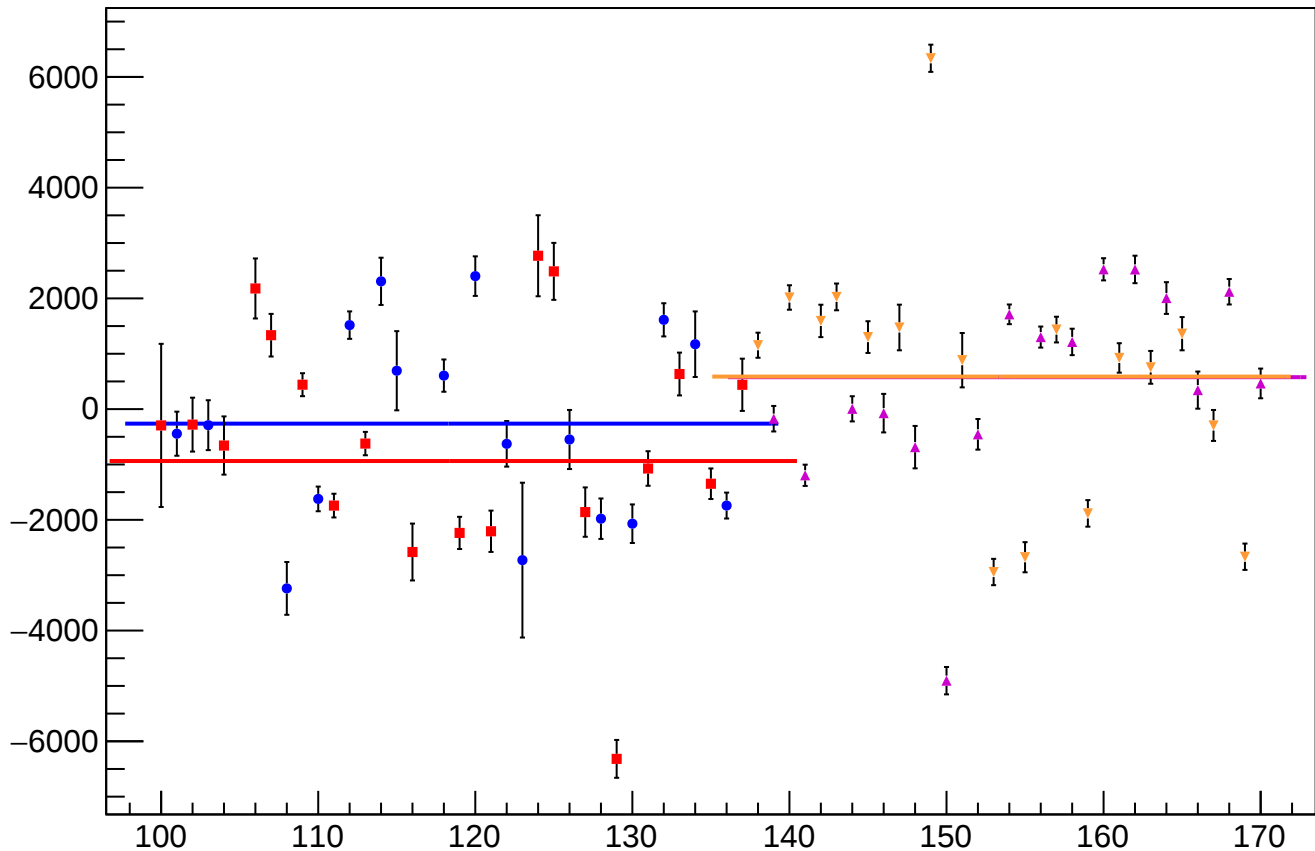
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 196.510+/-0.033 χ^2/NDF : 1931451.8/32

Out: 203.727+/-0.034 χ^2/NDF : 2319757.6/35

All: 200.042+/-0.024 χ^2/NDF : 4274372.3/68

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: 576.719+/-59.594 χ^2/NDF :910.4/15

Left: 581.617+/-43.714 χ^2/NDF : 2254.2/32

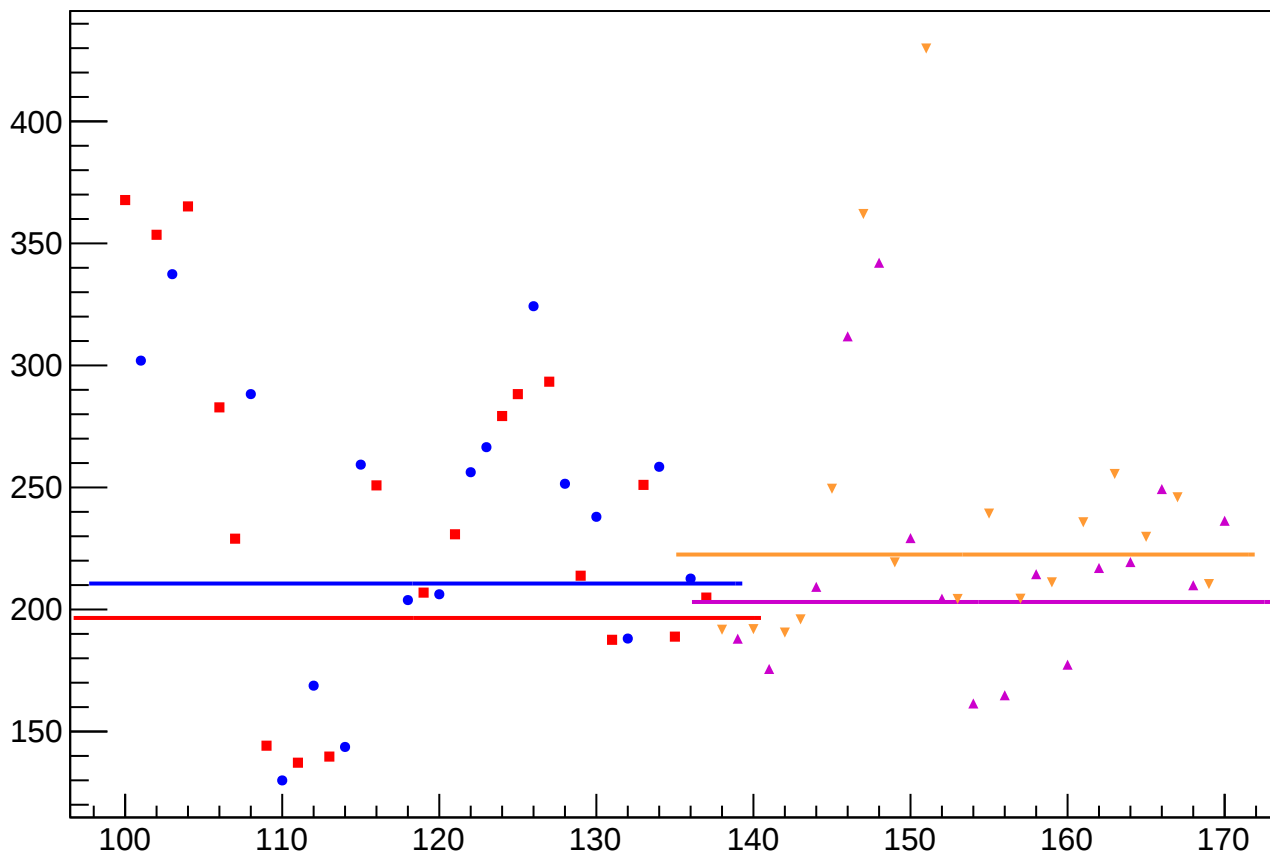
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 302.092+/-48.877 χ^2/NDF :1344.0/32

Out: -25.843+/-49.735 χ^2/NDF :2091.8/35

All: 140.975+/-34.861 χ^2/NDF : 3457.9/68

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: 203.077+/-0.042 χ^2/NDF :843196.1/15

Left: 212.058+/-0.031 χ^2/NDF : 1754323.7/32

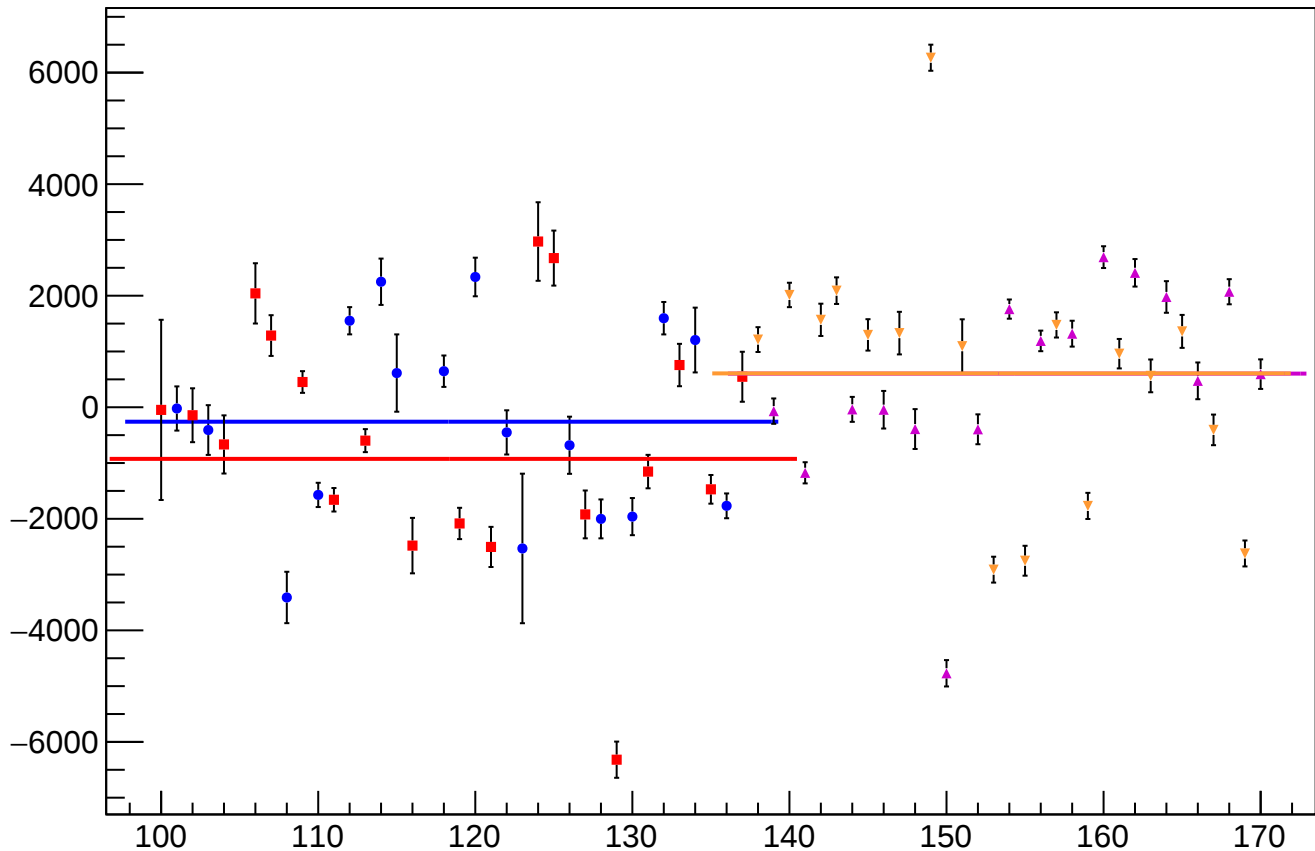
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 205.551+/-0.035 χ^2/NDF :1729503.2/32

Out: 212.068+/-0.035 χ^2/NDF :2149205.2/35

All: 208.753+/-0.025 χ^2/NDF : 3896177.5/68

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139 $\pm$ 82.802 χ^2/NDF : 391.2/16

Left Out: 606.993 $\pm$ 62.987 χ^2/NDF :1413.4/16

Right Out: -925.534 $\pm$ 75.503 χ^2/NDF : 581.9/18

Left In: 603.151 $\pm$ 58.171 χ^2/NDF :945.5/15

Left: 604.919 $\pm$ 42.735 χ^2/NDF : 2358.9/32

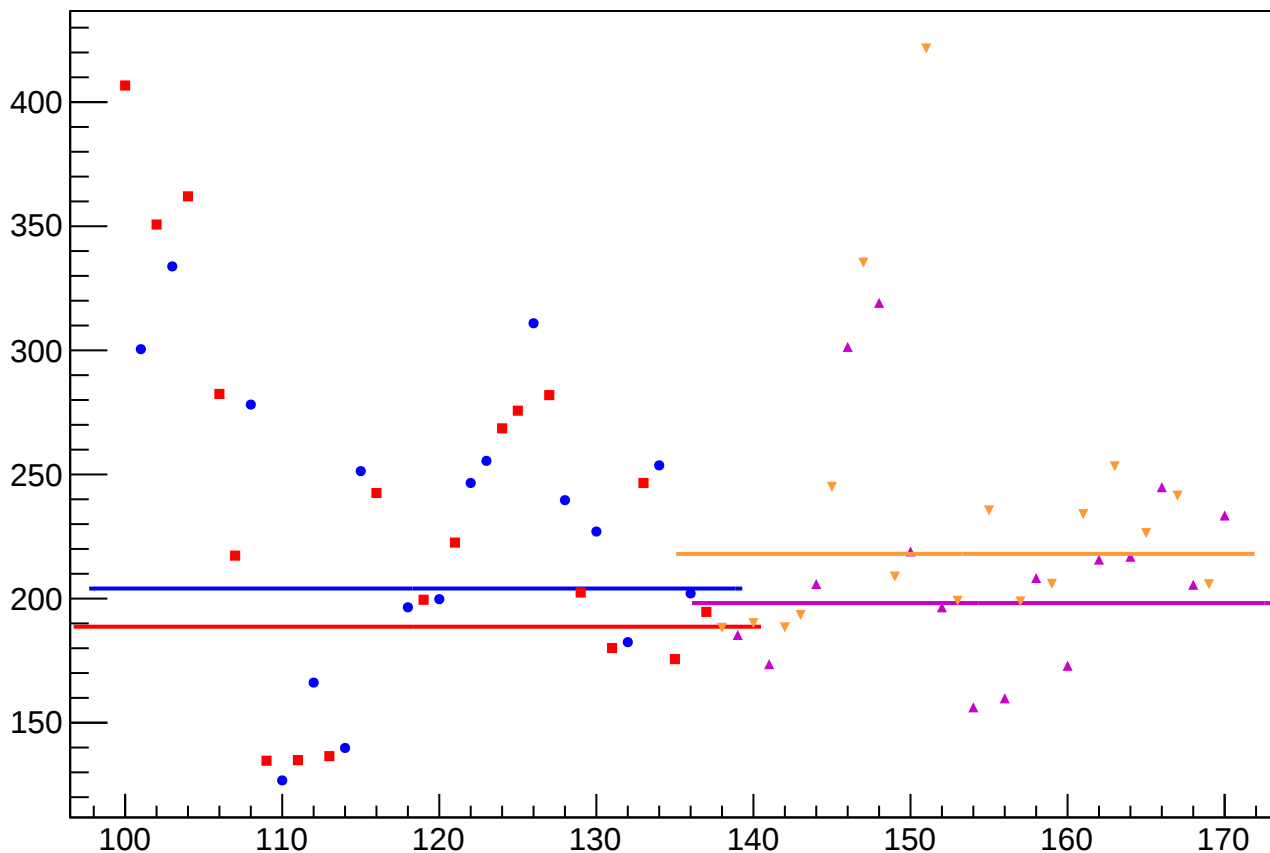
Right: -622.995 $\pm$ 55.791 χ^2/NDF : 1008.5/35

In: 318.201 $\pm$ 47.599 χ^2/NDF :1409.4/32

Out: -21.889 $\pm$ 48.367 χ^2/NDF :2238.2/35

All: 150.877 $\pm$ 33.926 χ^2/NDF : 3672.6/68

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051 $\pm$ 0.059 χ^2 /NDF: 868423.0/16

Left Out: 218.008 $\pm$ 0.045 χ^2 /NDF: 777211.1/16

Right Out: 188.681 $\pm$ 0.053 χ^2 /NDF: 1251107.4/18

Left In: 198.212 $\pm$ 0.041 χ^2 /NDF: 813960.9/15

Left: 207.325 $\pm$ 0.030 χ^2 /NDF: 1697788.8/32

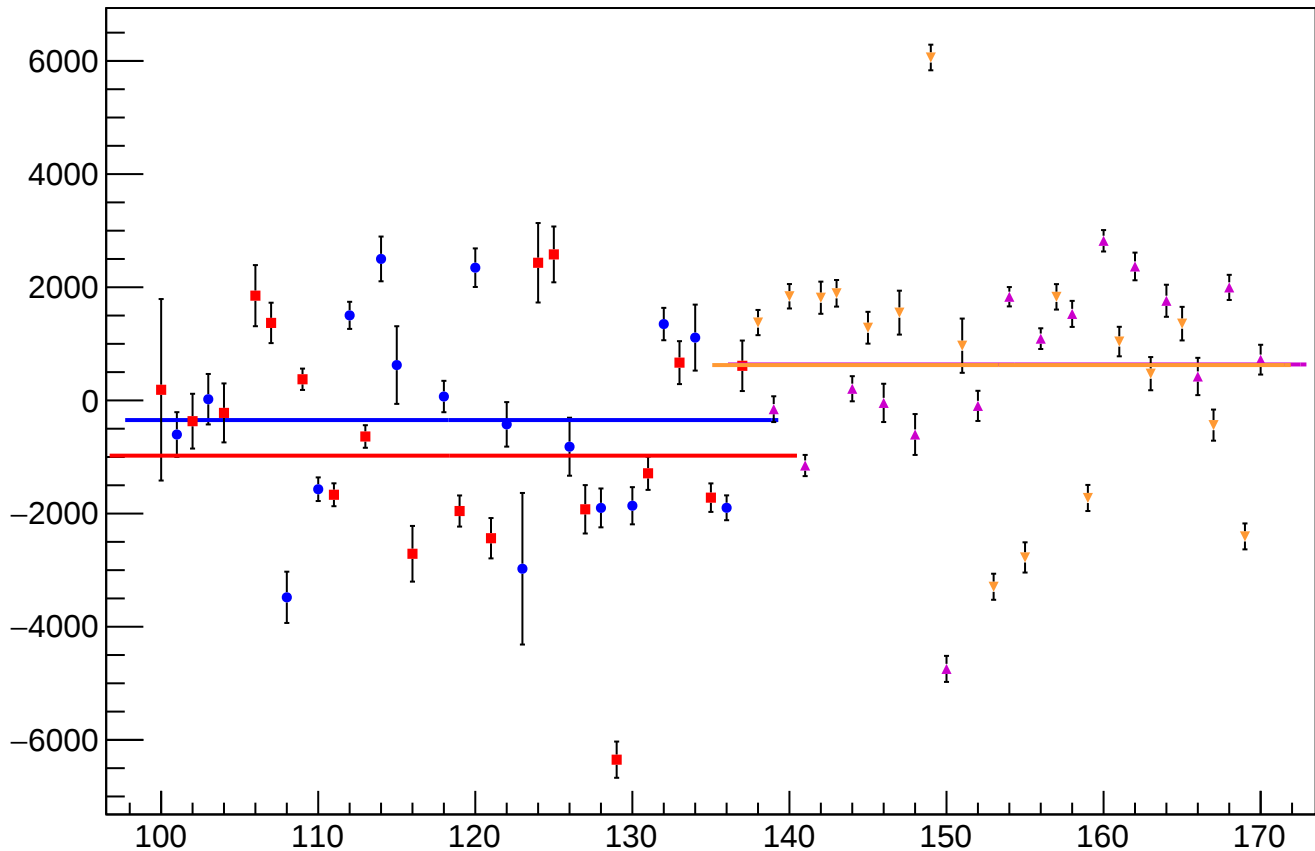
Right: 195.659 $\pm$ 0.039 χ^2 /NDF: 2157160.3/35

In: 200.142 $\pm$ 0.034 χ^2 /NDF: 1689043.1/32

Out: 205.973 $\pm$ 0.034 χ^2 /NDF: 2206245.3/35

All: 203.011 $\pm$ 0.024 χ^2 /NDF: 3910058.8/68

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: 635.491+/-57.608 χ^2/NDF :984.5/15

Left: 630.565+/-42.340 χ^2/NDF : 2444.0/32

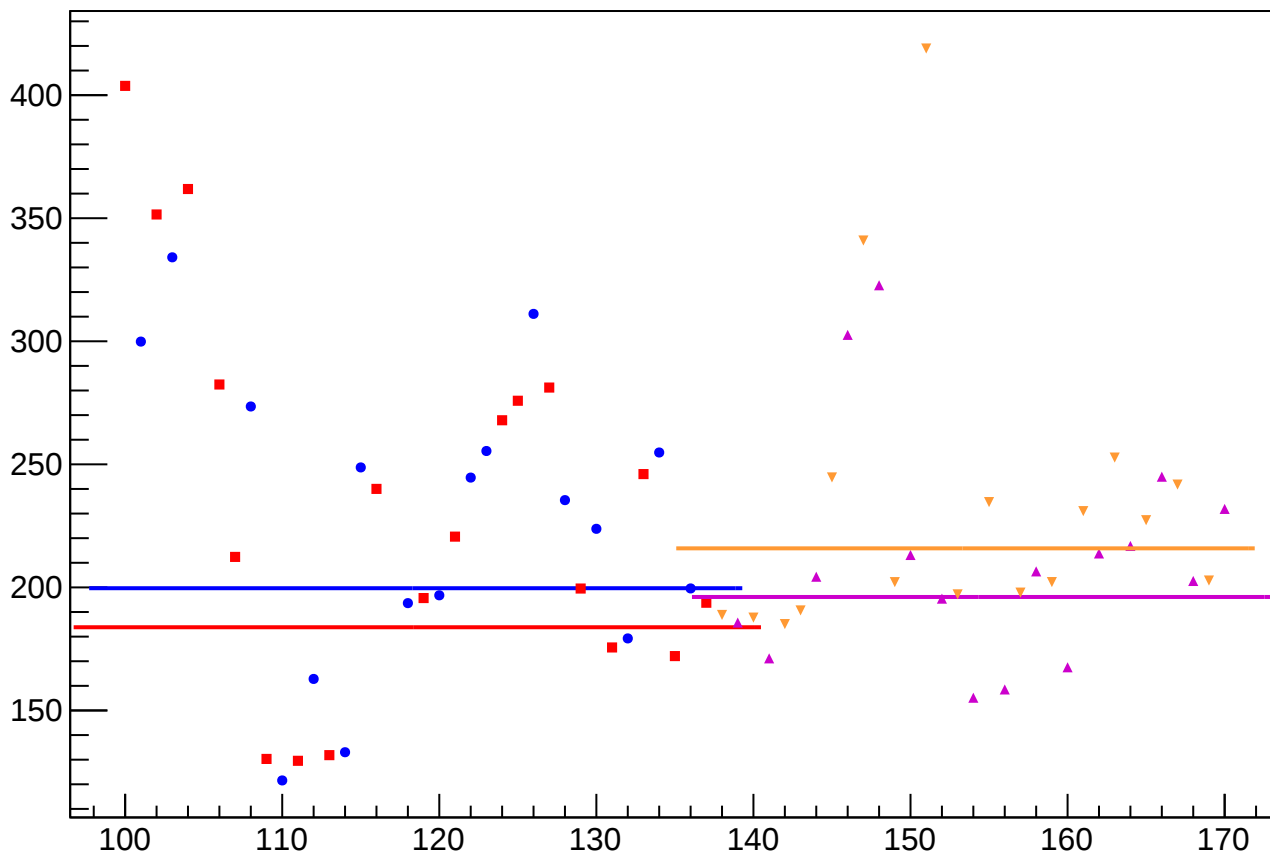
Right: -691.802+/-54.685 χ^2/NDF : 1017.5/35

In: 307.094+/-47.007 χ^2/NDF :1480.9/32

Out: -42.231+/-47.691 χ^2/NDF :2319.0/35

All: 134.955+/-33.479 χ^2/NDF : 3827.1/68

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669+/-0.058 χ^2/NDF : 943155.1/16

Left Out: 215.867+/-0.044 χ^2/NDF : 813374.9/16

Right Out: 183.808+/-0.052 χ^2/NDF : 1349625.1/18

Left In: 196.110+/-0.041 χ^2/NDF : 849590.6/15

Left: 205.194+/-0.030 χ^2/NDF : 1771131.2/32

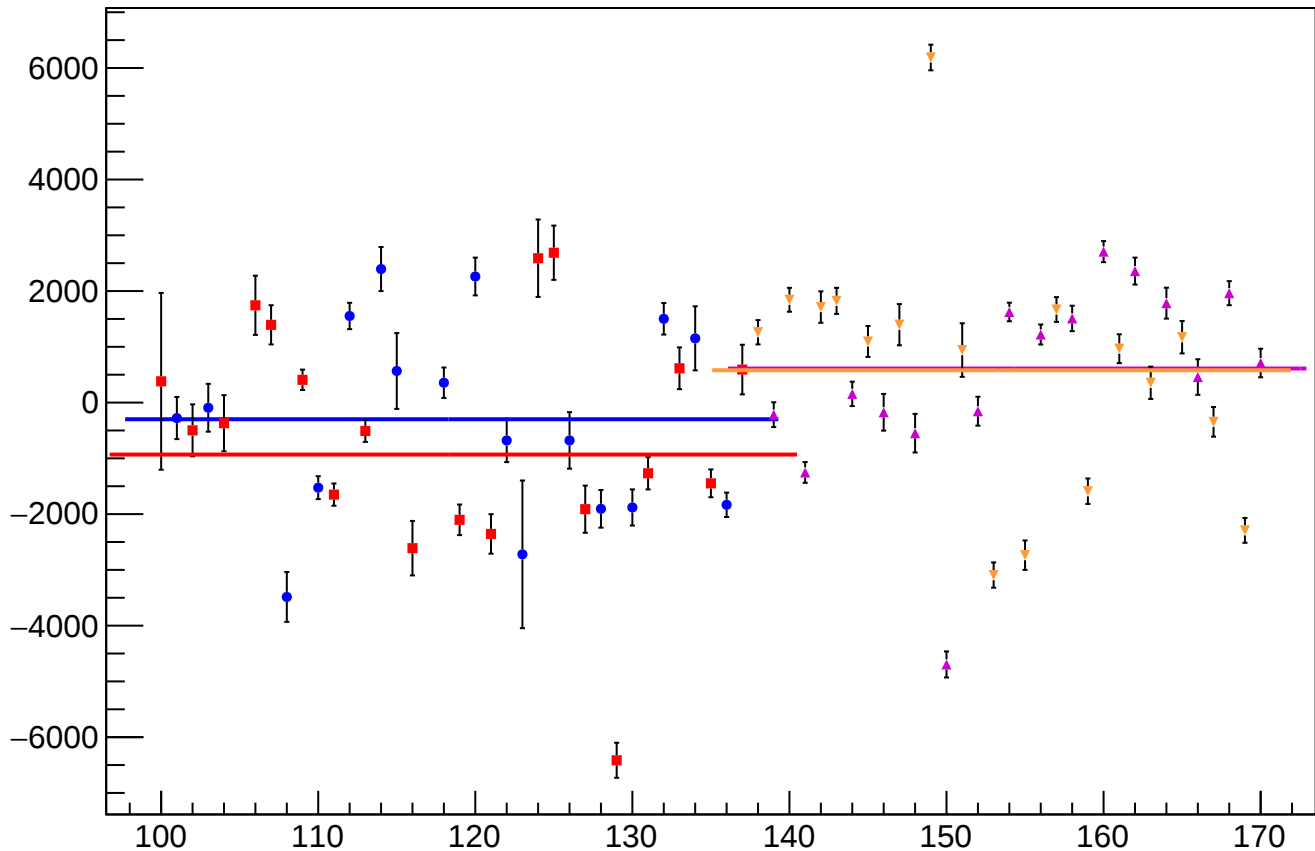
Right: 190.981+/-0.039 χ^2/NDF : 2334457.4/35

In: 197.299+/-0.033 χ^2/NDF : 1795297.4/32

Out: 202.511+/-0.034 χ^2/NDF : 2382641.8/35

All: 199.867+/-0.024 χ^2/NDF : 4190054.5/68

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: 610.666 ± 56.641 $\chi^2/\text{NDF}: 956.7/15$

Left: 596.599 ± 41.703 $\chi^2/\text{NDF}: 2368.4/32$

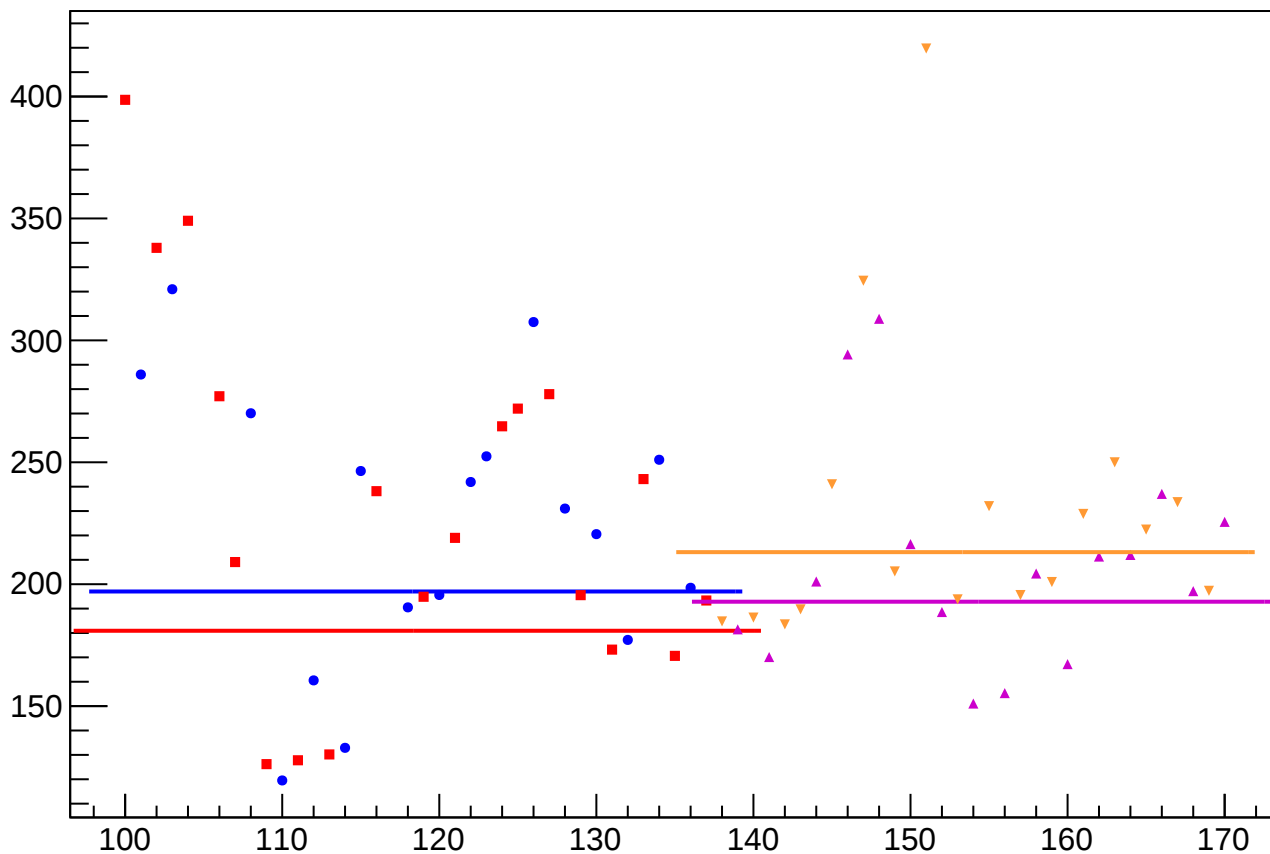
Right: -646.004 ± 53.873 $\chi^2/\text{NDF}: 1055.6/35$

In: 307.755 ± 46.259 $\chi^2/\text{NDF}: 1449.2/32$

Out: -51.650 ± 47.023 $\chi^2/\text{NDF}: 2277.7/35$

All: 130.998 ± 32.977 $\chi^2/\text{NDF}: 3756.6/68$

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: 192.821+/-0.040 χ^2/NDF : 821678.1/15

Left: 202.130+/-0.029 χ^2/NDF : 1728008.3/32

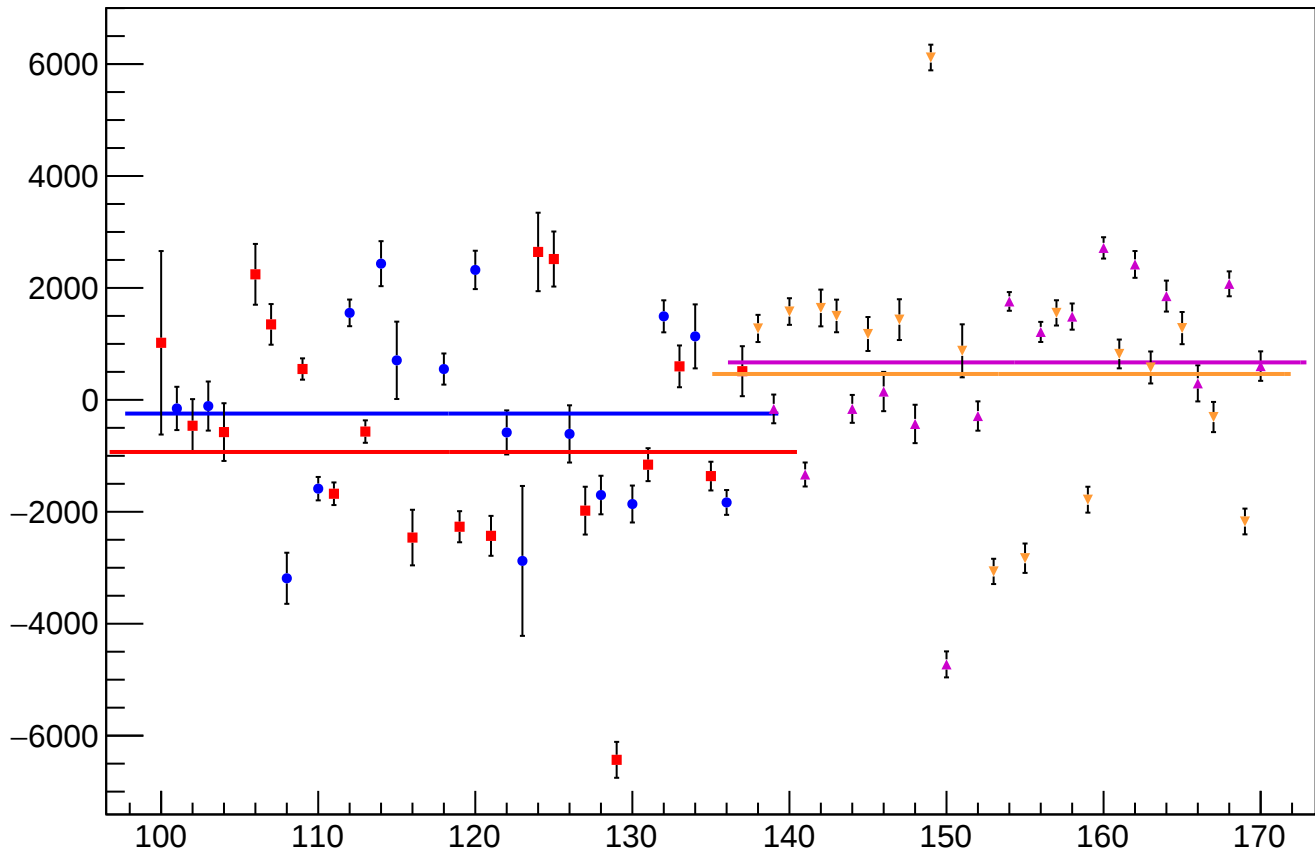
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 194.217+/-0.033 χ^2/NDF : 1737249.5/32

Out: 199.679+/-0.033 χ^2/NDF : 2362784.5/35

All: 196.903+/-0.023 χ^2/NDF : 4113745.2/68

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: 669.416+/-58.712 χ^2/NDF :966.0/15

Left: 575.329+/-43.350 χ^2/NDF : 2319.9/32

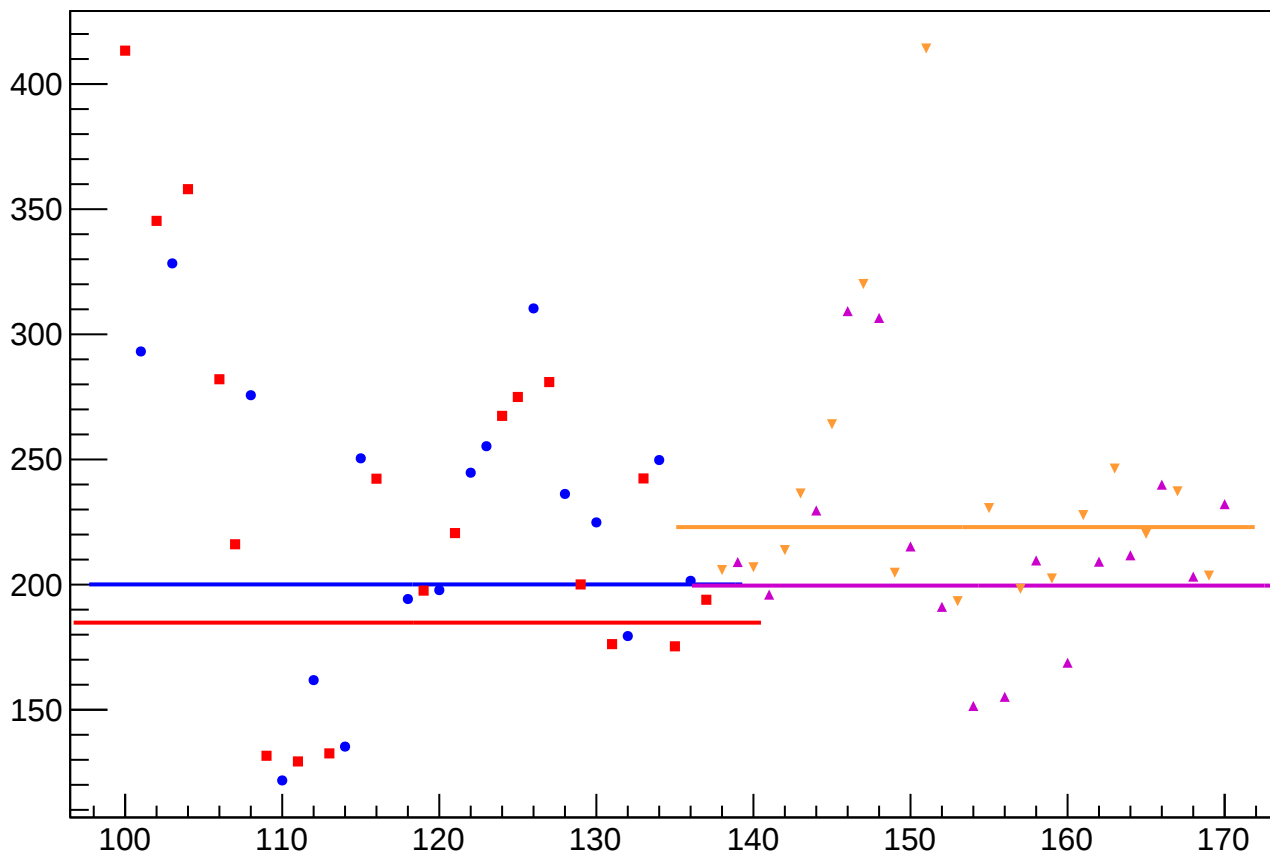
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 356.493+/-47.617 χ^2/NDF :1440.4/32

Out: -134.950+/-48.585 χ^2/NDF :2159.5/35

All: 115.717+/-34.007 χ^2/NDF : 3652.1/68

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 222.980 $\pm$ 0.045 χ^2 /NDF: 651937.2/16

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 199.606 $\pm$ 0.042 χ^2 /NDF: 846782.7/15

Left: 210.237 $\pm$ 0.031 χ^2 /NDF: 1642895.9/32

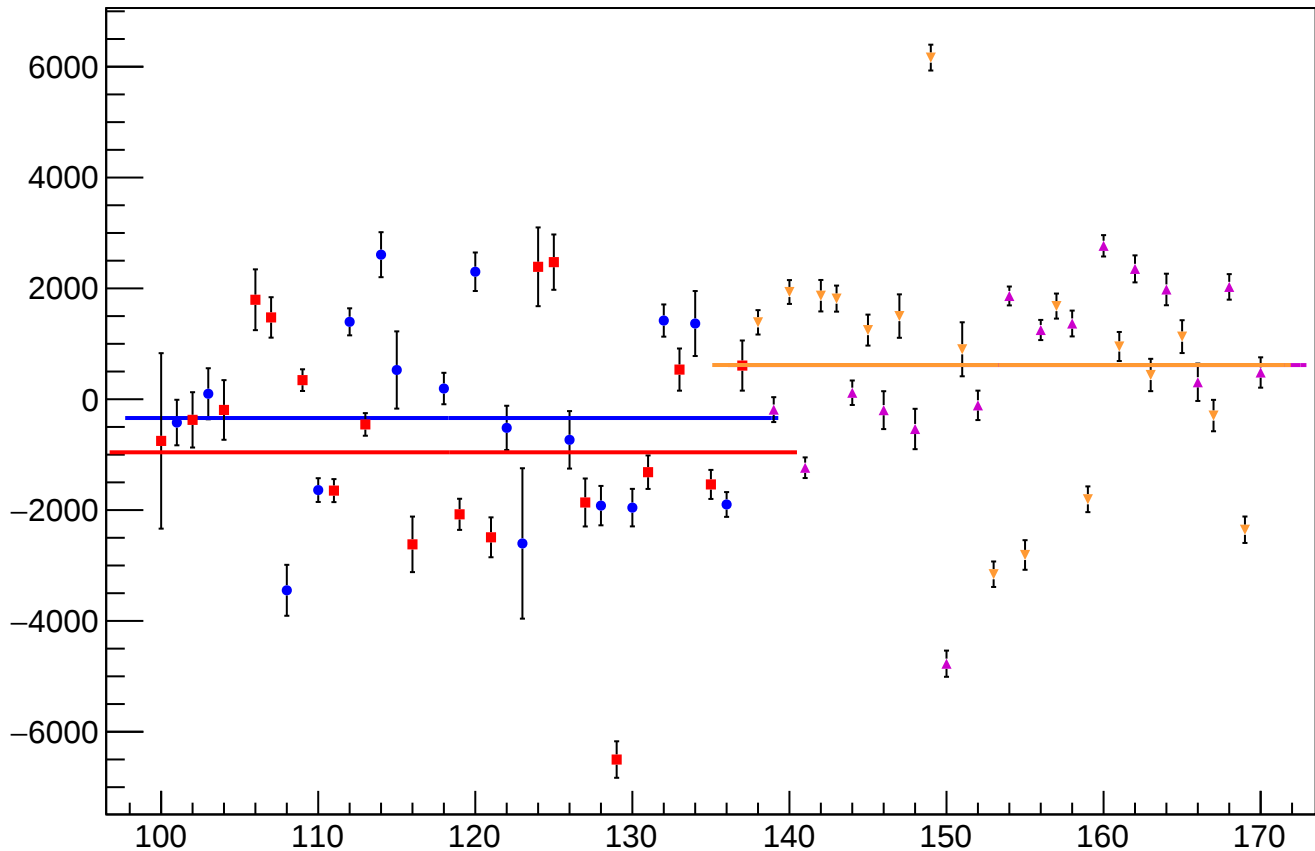
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 199.768 $\pm$ 0.034 χ^2 /NDF: 1765136.2/32

Out: 206.616 $\pm$ 0.034 χ^2 /NDF: 2272577.0/35

All: 203.123 $\pm$ 0.024 χ^2 /NDF: 4057982.2/68

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 ± 83.123 $\chi^2/\text{NDF}: 389.5/16$

Left Out: 617.443 ± 62.815 $\chi^2/\text{NDF}: 1406.7/16$

Right Out: -957.615 ± 75.749 $\chi^2/\text{NDF}: 570.3/18$

Left In: 616.530 ± 57.979 $\chi^2/\text{NDF}: 972.5/15$

Left: 616.950 ± 42.605 $\chi^2/\text{NDF}: 2379.2/32$

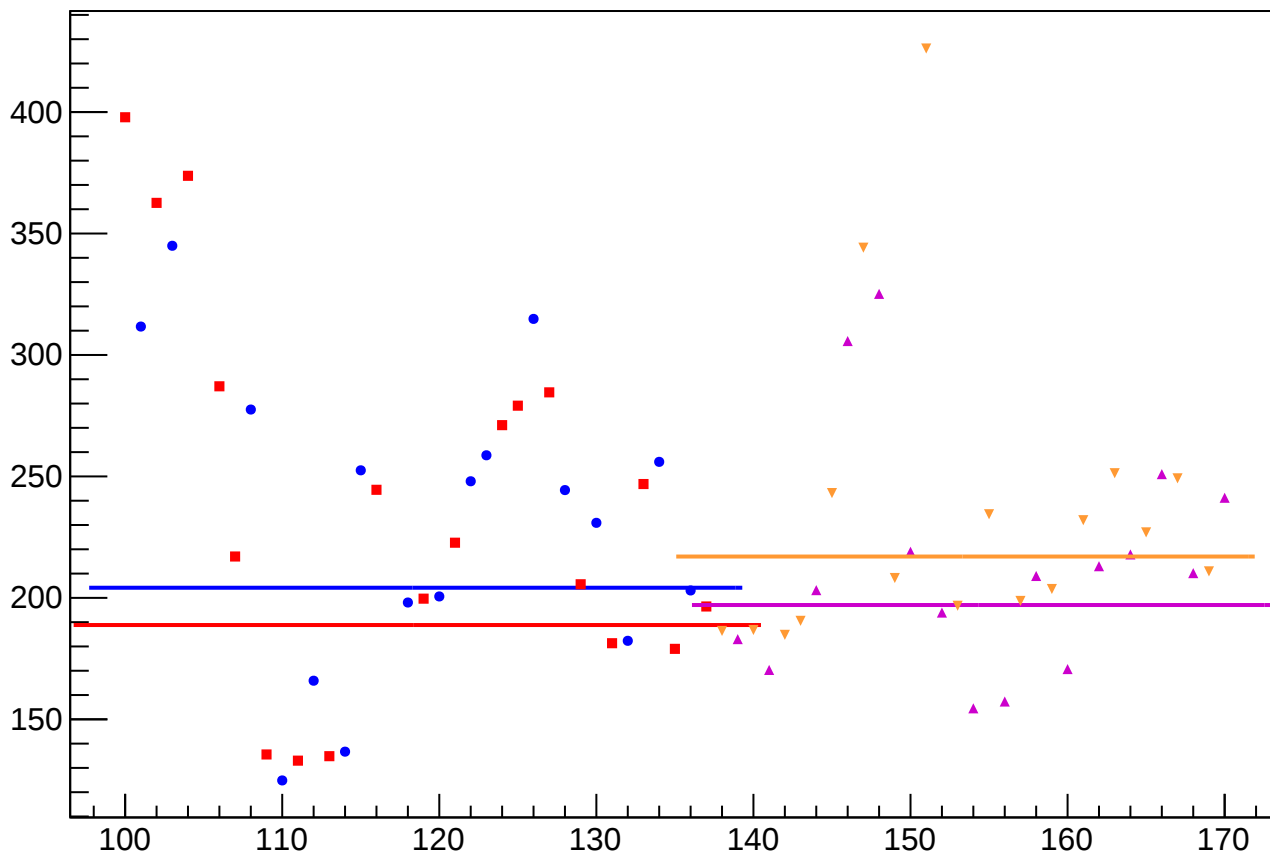
Right: -676.943 ± 55.988 $\chi^2/\text{NDF}: 990.0/35$

In: 303.809 ± 47.554 $\chi^2/\text{NDF}: 1450.8/32$

Out: -24.343 ± 48.353 $\chi^2/\text{NDF}: 2233.2/35$

All: 142.468 ± 33.905 $\chi^2/\text{NDF}: 3707.5/68$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 $\pm$ 0.059 χ^2 /NDF: 947438.5/16

Left Out: 217.020 $\pm$ 0.044 χ^2 /NDF:836044.8/16

Right Out: 188.821 $\pm$ 0.054 χ^2 /NDF: 1314891.2/18

Left In: 197.060 $\pm$ 0.041 χ^2 /NDF:909173.7/15

Left: 206.242 $\pm$ 0.030 χ^2 /NDF: 1854253.0/32

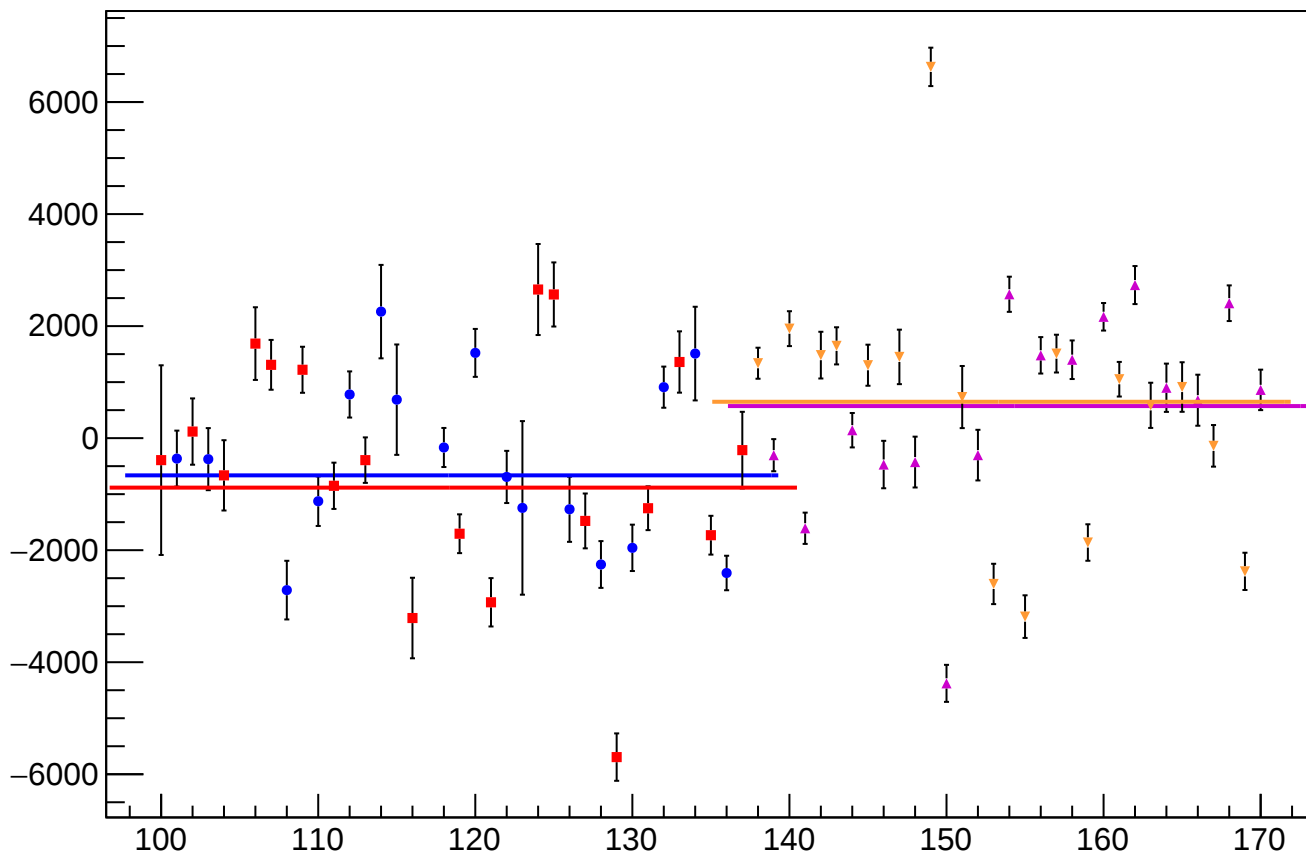
Right: 195.787 $\pm$ 0.040 χ^2 /NDF: 2299610.3/35

In: 199.389 $\pm$ 0.034 χ^2 /NDF:1866469.1/32

Out: 205.530 $\pm$ 0.034 χ^2 /NDF:2315164.8/35

All: 202.408 $\pm$ 0.024 χ^2 /NDF: 4198031.0/68

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 $\pm$ 113.949 χ^2/NDF : 154.3/16

Left Out: 649.462 $\pm$ 86.881 χ^2/NDF : 685.4/16

Right Out: -883.255 $\pm$ 110.875 χ^2/NDF : 320.1/18

Left In: 572.581 $\pm$ 84.197 χ^2/NDF : 482.4/15

Left: 609.815 $\pm$ 60.463 χ^2/NDF : 1168.2/32

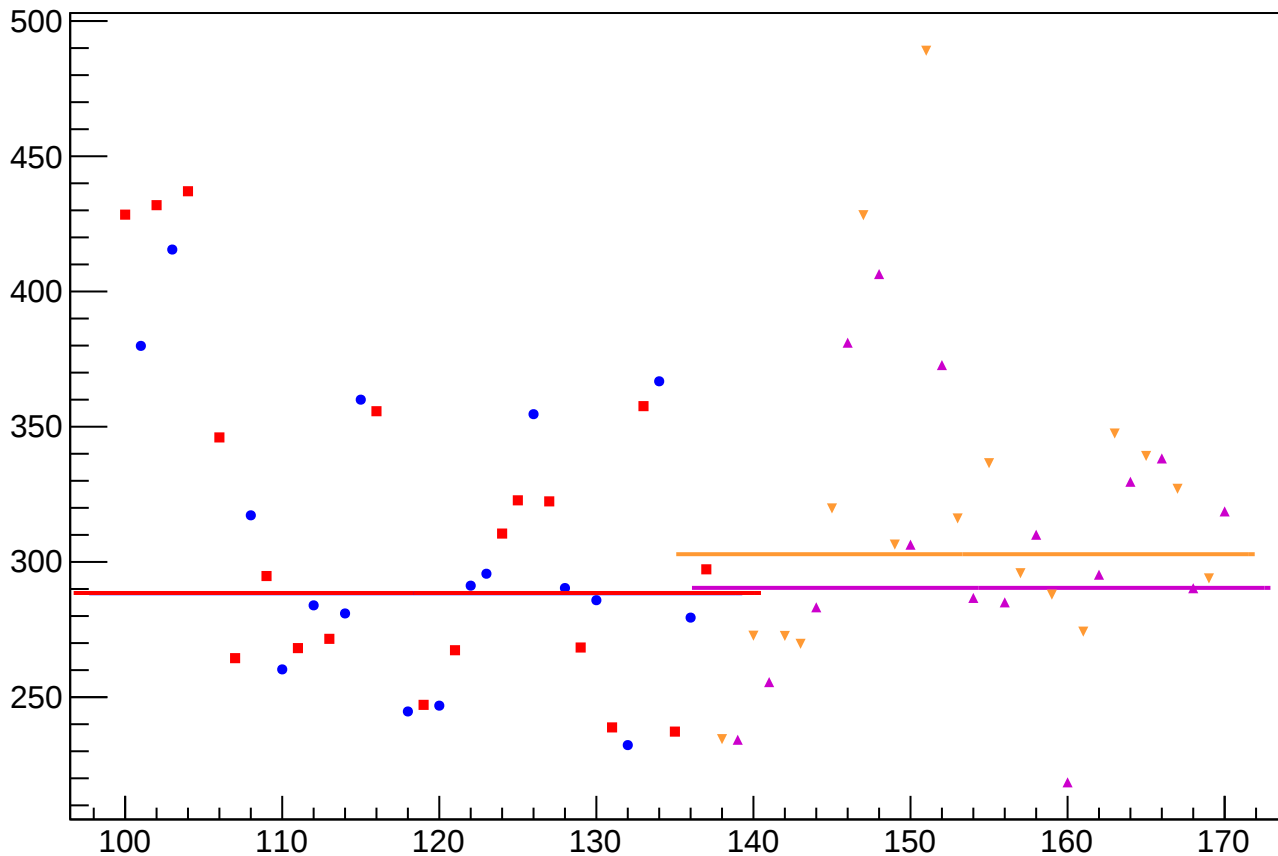
Right: -776.811 $\pm$ 79.465 χ^2/NDF : 476.3/35

In: 135.736 $\pm$ 67.716 χ^2/NDF : 713.0/32

Out: 66.366 $\pm$ 68.387 χ^2/NDF : 1123.9/35

All: 101.393 $\pm$ 48.118 χ^2/NDF : 1837.4/68

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 $\pm$ 0.081 χ^2 /NDF: 339820.0/16

Left Out: 302.864 $\pm$ 0.061 χ^2 /NDF: 622275.4/16

Right Out: 288.522 $\pm$ 0.078 χ^2 /NDF: 455410.1/18

Left In: 290.415 $\pm$ 0.060 χ^2 /NDF: 632246.3/15

Left: 296.444 $\pm$ 0.043 χ^2 /NDF: 1275695.4/32

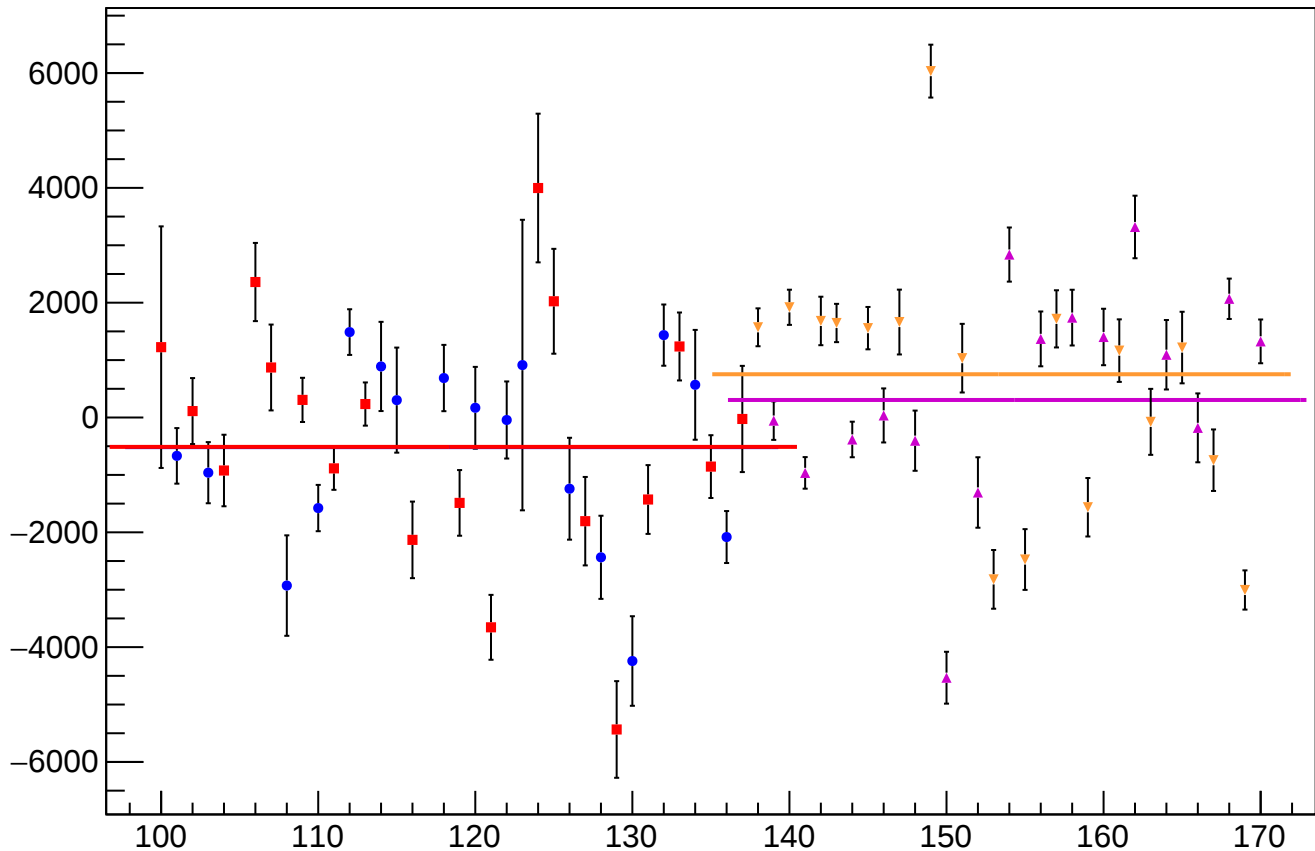
Right: 288.476 $\pm$ 0.056 χ^2 /NDF: 795230.9/35

In: 289.714 $\pm$ 0.048 χ^2 /NDF: 972459.8/32

Out: 297.408 $\pm$ 0.048 χ^2 /NDF: 1098418.8/35

All: 293.523 $\pm$ 0.034 χ^2 /NDF: 2083661.7/68

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 $\pm$ 147.326 χ^2/NDF : 108.0/16

Left Out: 753.465 $\pm$ 106.166 χ^2/NDF : 414.1/16

Right Out: -511.851 $\pm$ 135.798 χ^2/NDF : 141.3/18

Left In: 305.311 $\pm$ 105.797 χ^2/NDF : 264.0/15

Left: 528.608 $\pm$ 74.940 χ^2/NDF : 686.9/32

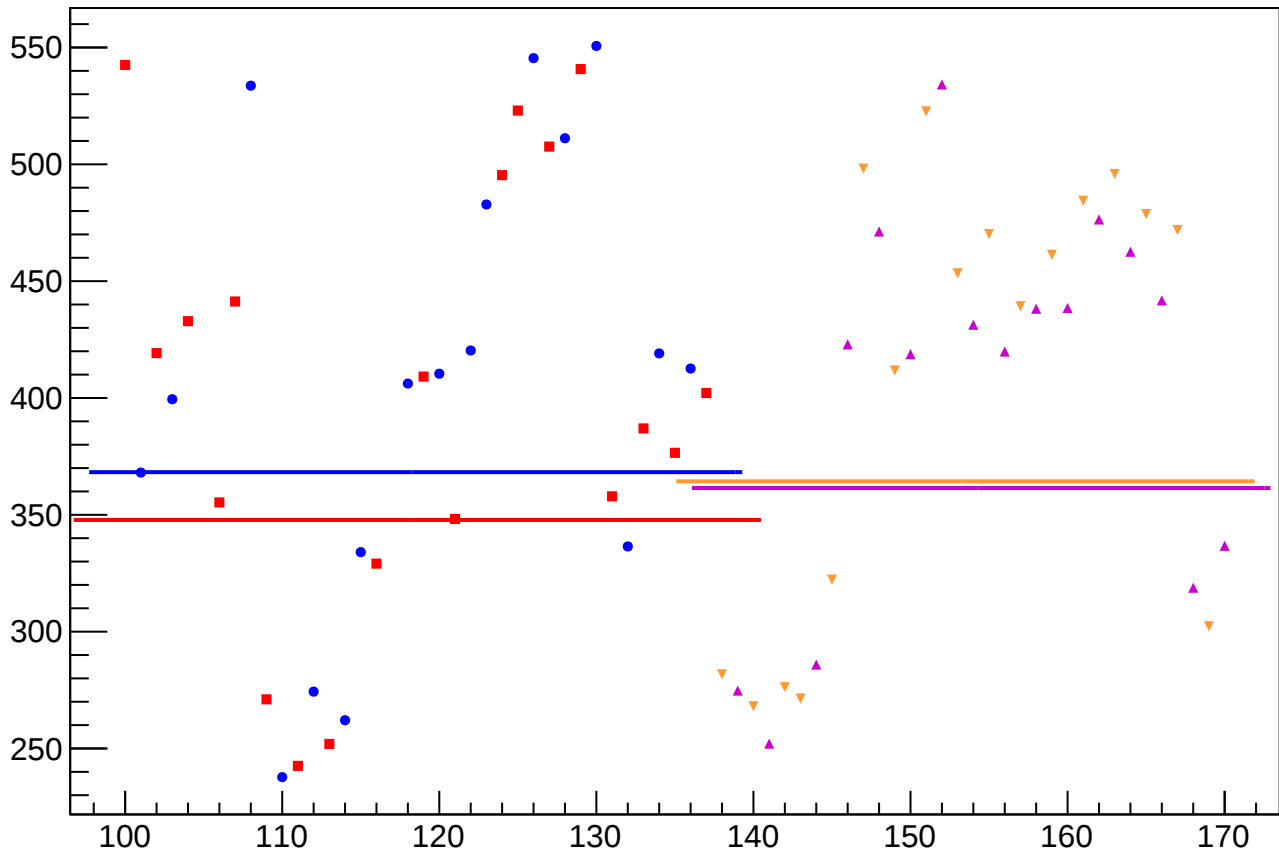
Right: -513.708 $\pm$ 99.851 χ^2/NDF : 249.3/35

In: 25.911 $\pm$ 85.935 χ^2/NDF : 392.5/32

Out: 273.478 $\pm$ 83.639 χ^2/NDF : 609.2/35

All: 153.045 $\pm$ 59.937 χ^2/NDF : 1005.9/68

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 364.328+/-0.075 χ^2/NDF :1538839.8/16

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 361.468+/-0.075 χ^2/NDF :1272707.1/15

Left: 362.893+/-0.053 χ^2/NDF : 2812275.0/32

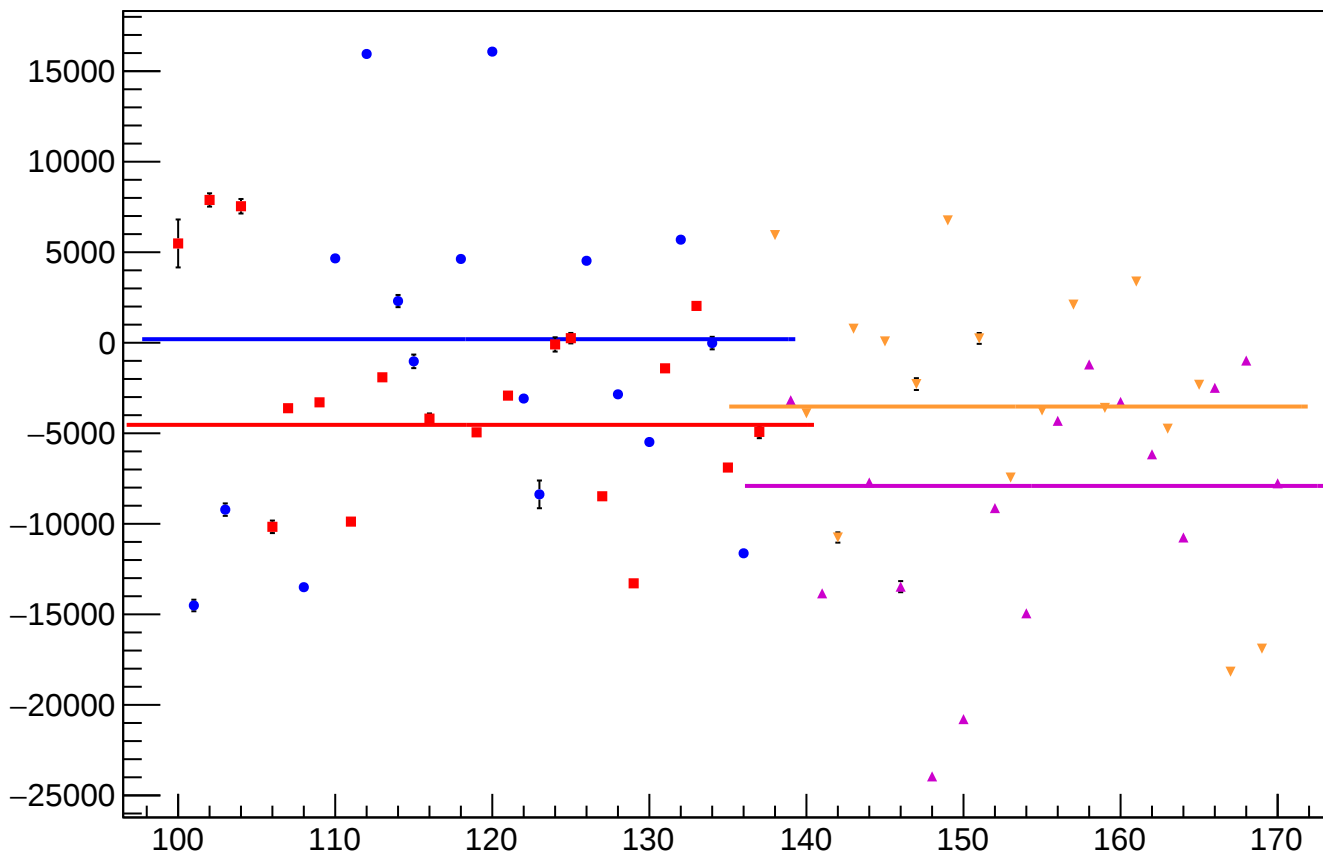
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 363.780+/-0.061 χ^2/NDF :2045631.6/32

Out: 358.059+/-0.059 χ^2/NDF :2379085.2/35

All: 360.842+/-0.042 χ^2/NDF : 4429269.3/68

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: -7906.804+/-49.419 χ^2/NDF :16463.0/15

Left: -5678.029+/-34.650 χ^2/NDF : 40265.5/32

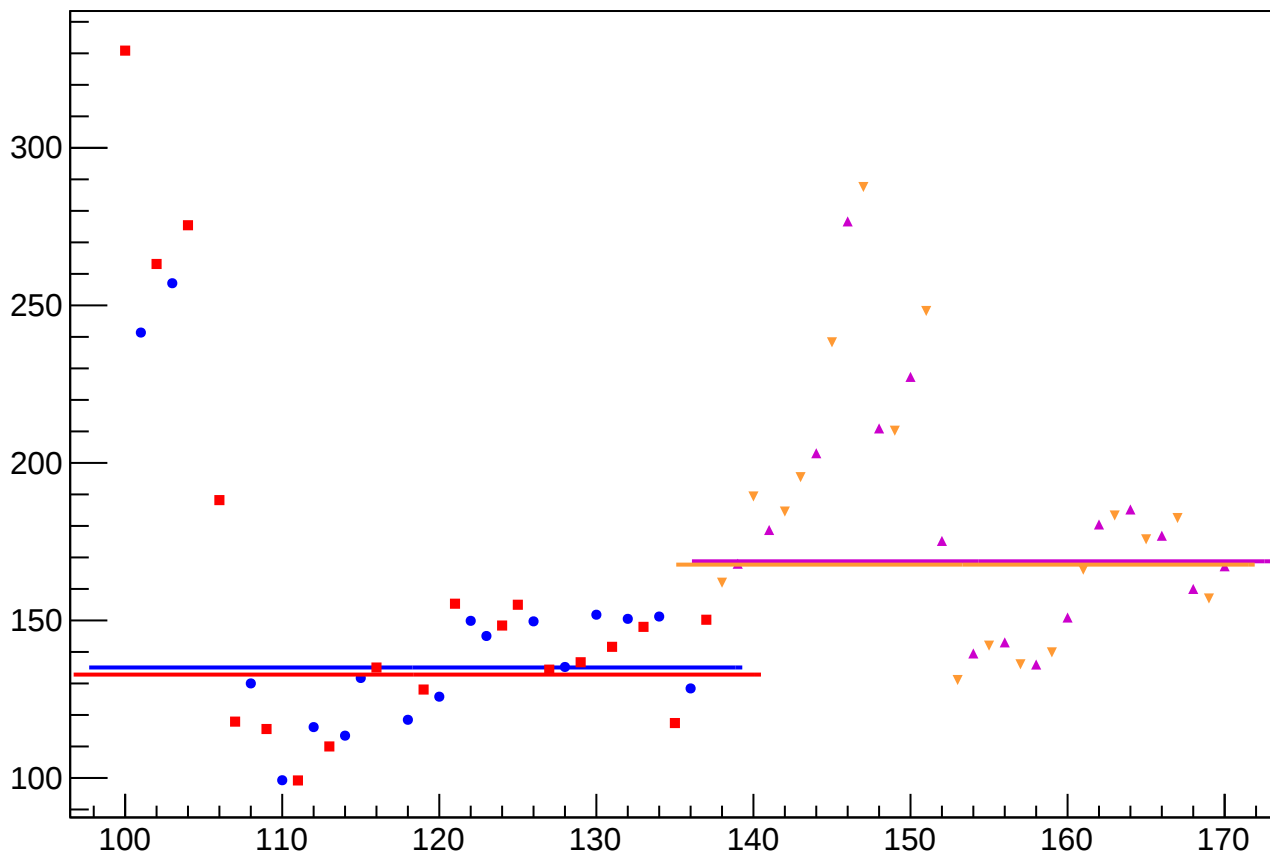
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4272.101+/-36.699 χ^2/NDF :59182.0/32

Out: -3989.897+/-35.651 χ^2/NDF :27478.9/35

All: -4126.910+/-25.572 χ^2/NDF : 86691.4/68

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: 168.771 $\pm$ 0.035 χ^2 /NDF:736859.9/15

Left: 168.237 $\pm$ 0.025 χ^2 /NDF: 1758096.1/32

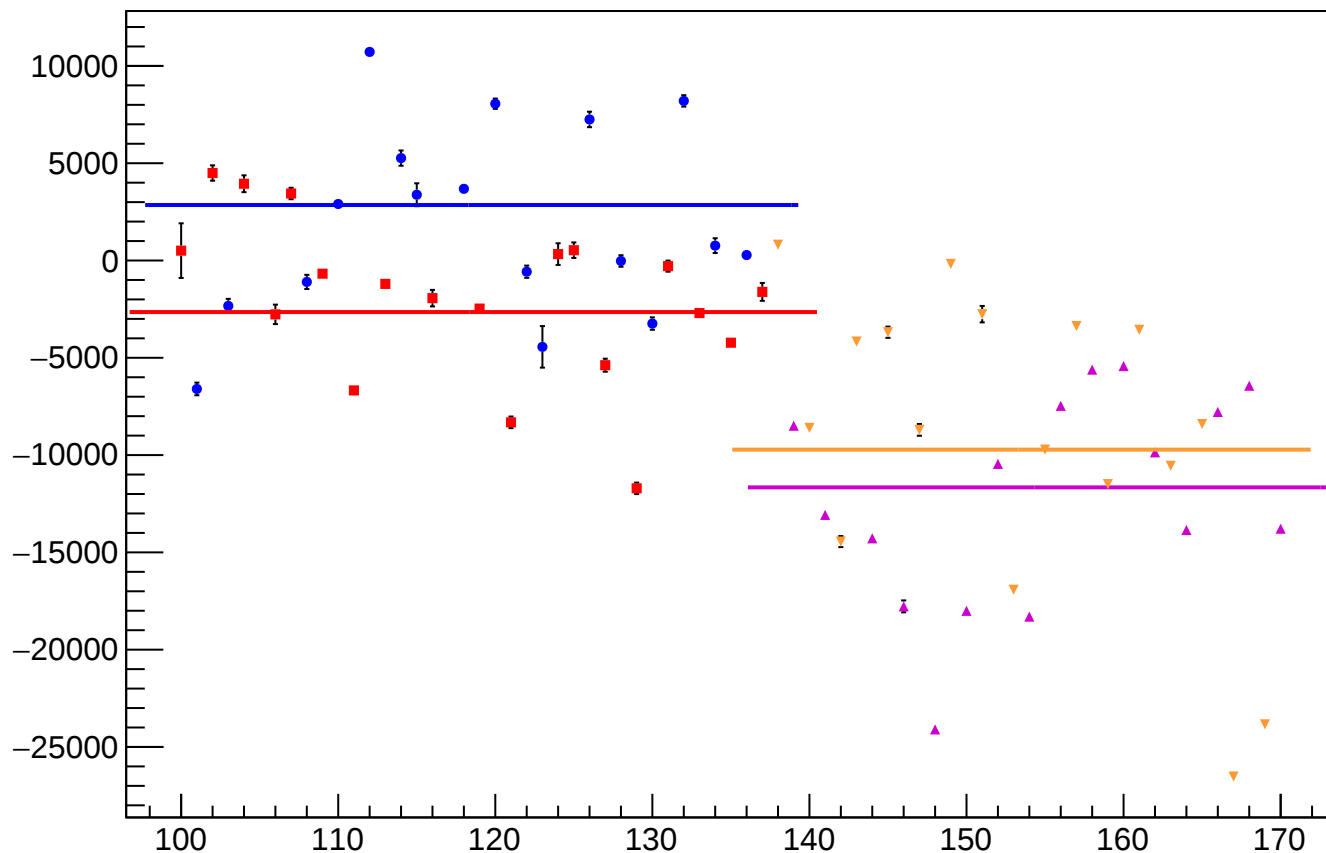
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 153.656 $\pm$ 0.026 χ^2 /NDF:1812683.0/32

Out: 151.602 $\pm$ 0.025 χ^2 /NDF:2328451.7/35

All: 152.599 $\pm$ 0.018 χ^2 /NDF: 4144359.8/68

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: -11659.292 $\pm$ 50.229 χ^2 /NDF:10588.8/15

Left: -10778.953 $\pm$ 37.115 χ^2 /NDF: 32120.2/32

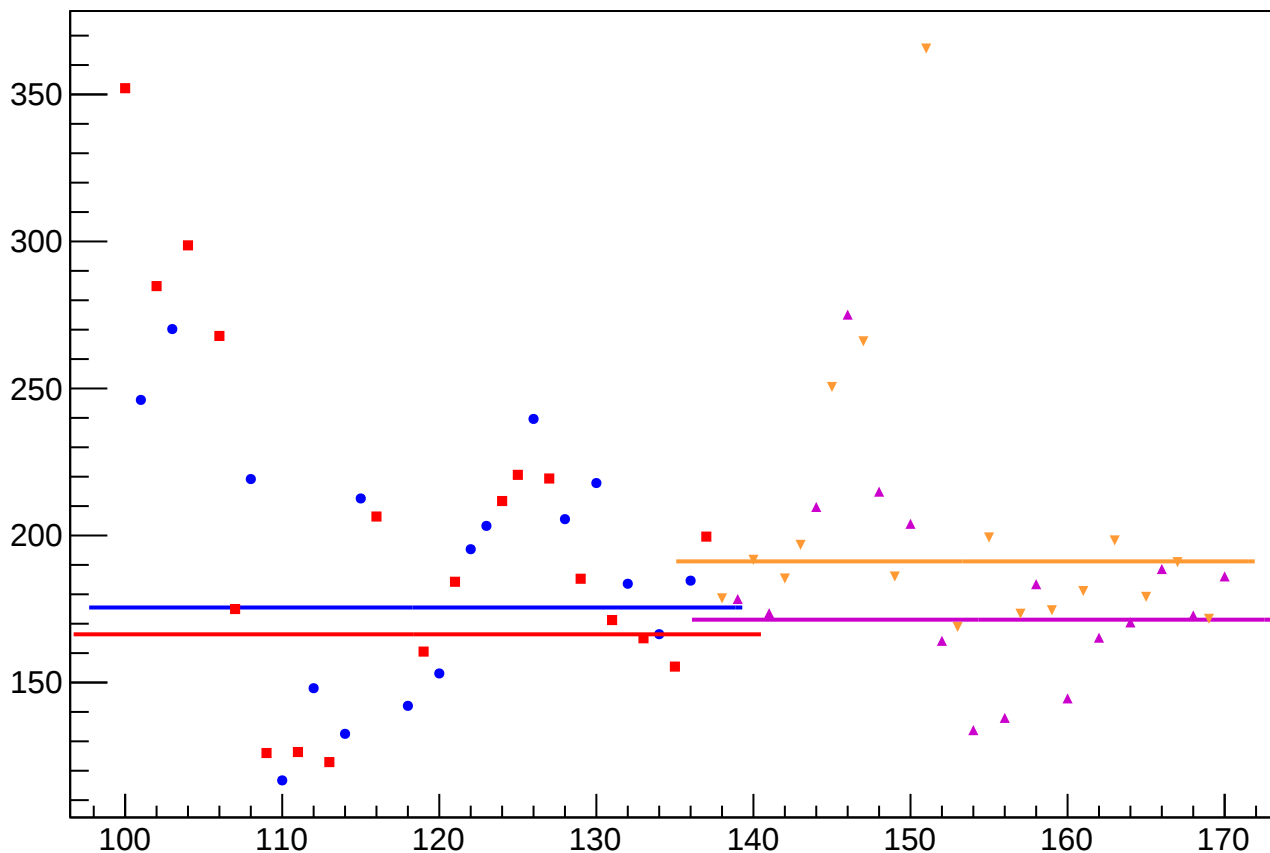
Right: -100.998 $\pm$ 48.156 χ^2 /NDF: 10597.9/35

In: -6796.806 $\pm$ 40.957 χ^2 /NDF:42733.8/32

Out: -6803.014 $\pm$ 42.219 χ^2 /NDF:30828.7/35

All: -6799.816 $\pm$ 29.397 χ^2 /NDF: 73562.6/68

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 191.200 $\pm$ 0.039 χ^2 /NDF: 650099.6/16

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 171.369 $\pm$ 0.036 χ^2 /NDF: 696910.5/15

Left: 180.372 $\pm$ 0.026 χ^2 /NDF: 1488543.1/32

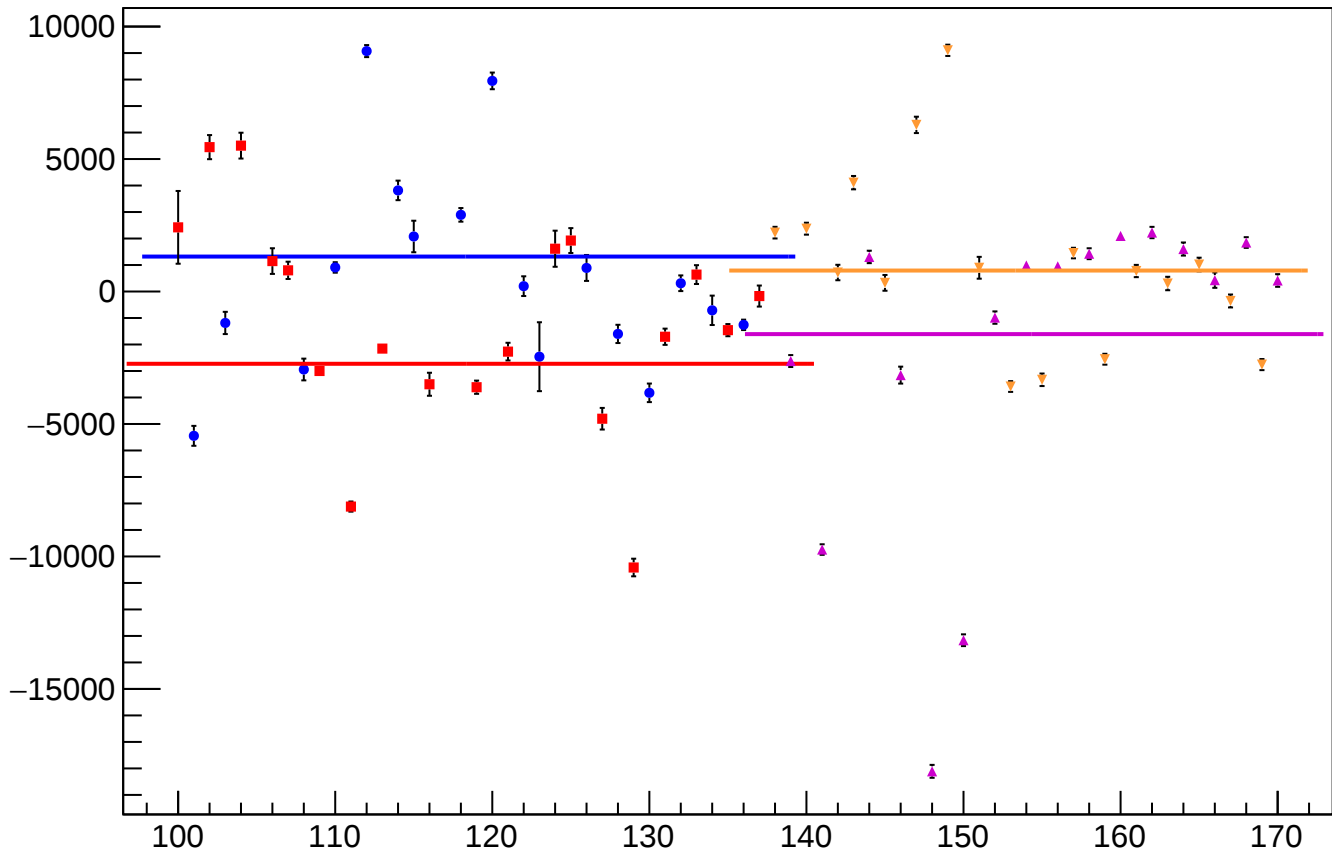
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 172.758 $\pm$ 0.029 χ^2 /NDF: 1391116.5/32

Out: 180.966 $\pm$ 0.030 χ^2 /NDF: 1746981.7/35

All: 176.738 $\pm$ 0.021 χ^2 /NDF: 3177037.2/68

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: -1608.050+/-52.747 χ^2/NDF :11286.8/15

Left: -522.094+/-39.026 χ^2/NDF : 15688.6/32

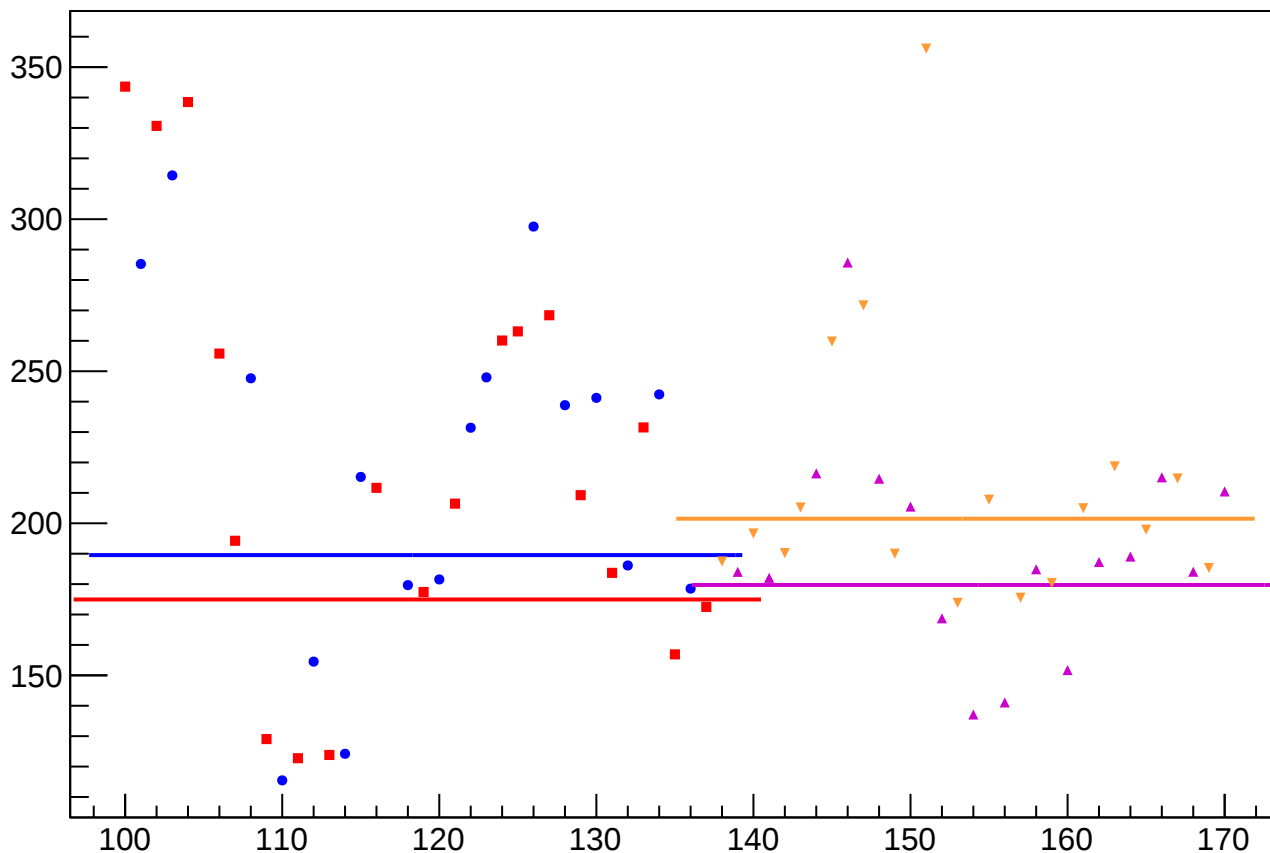
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -675.591+/-43.542 χ^2/NDF :14934.8/32

Out: -640.745+/-44.674 χ^2/NDF :7458.8/35

All: -658.615+/-31.181 χ^2/NDF : 22393.9/68

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 201.512+/-0.041 χ^2/NDF : 600944.7/16

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 179.714+/-0.037 χ^2/NDF : 737321.8/15

Left: 189.579+/-0.028 χ^2/NDF : 1492850.2/32

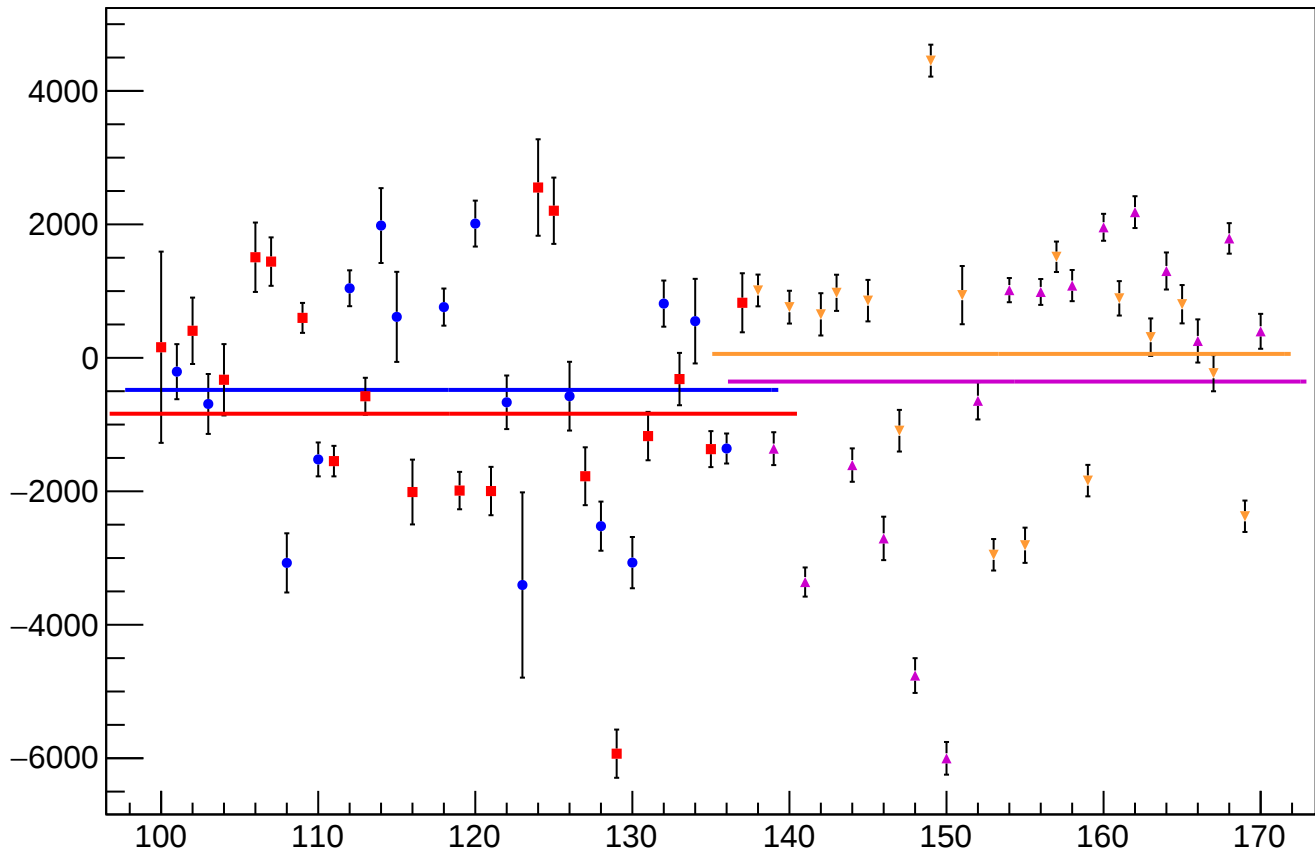
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 182.845+/-0.031 χ^2/NDF : 1740197.8/32

Out: 190.700+/-0.032 χ^2/NDF : 2068768.2/35

All: 186.672+/-0.022 χ^2/NDF : 3840669.1/68

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: -355.426 $\pm$ 59.689 χ^2/NDF : 1623.9/15

Left: -163.496 $\pm$ 43.736 χ^2/NDF : 2558.9/32

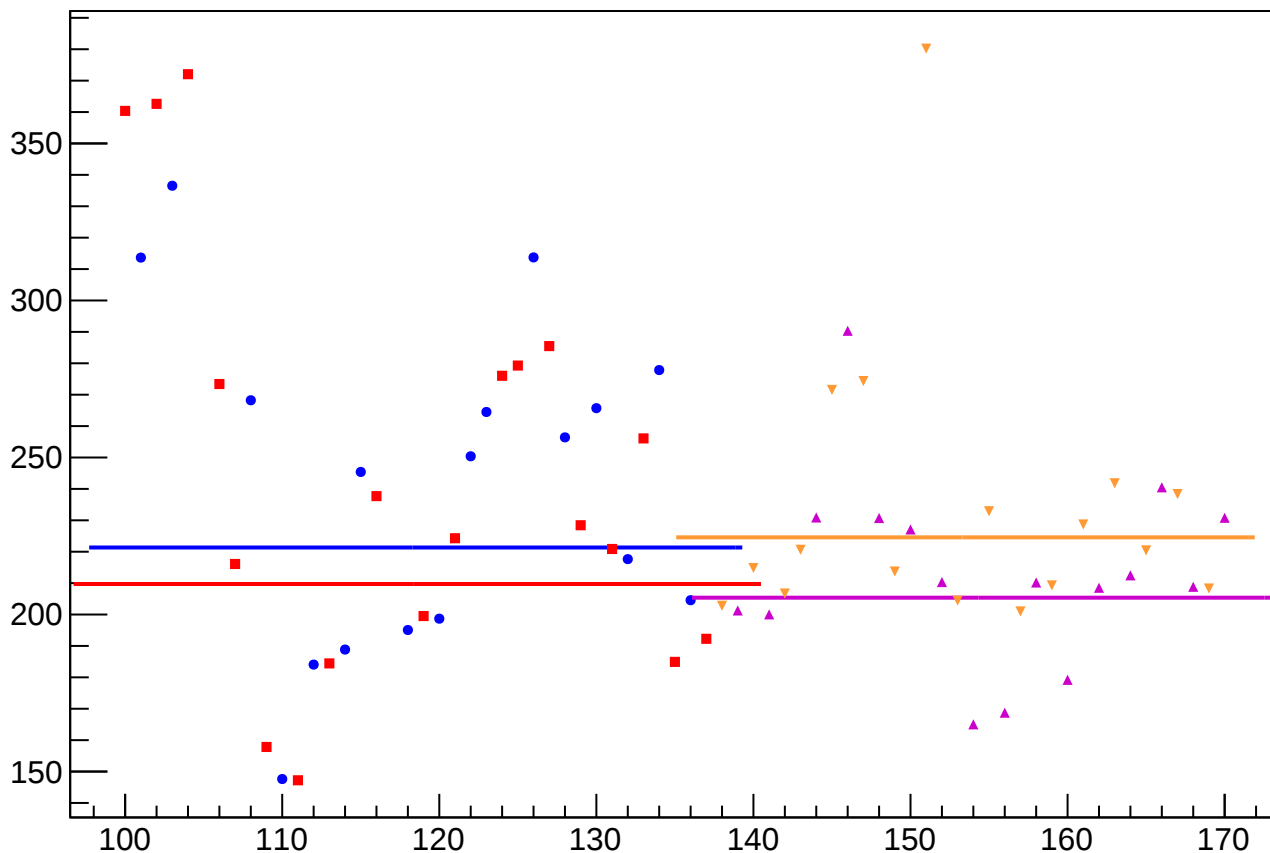
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -394.471 $\pm$ 49.510 χ^2/NDF : 1916.0/32

Out: -280.862 $\pm$ 50.640 χ^2/NDF : 1421.7/35

All: -338.948 $\pm$ 35.402 χ^2/NDF : 3340.3/68

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: 205.363 $\pm$ 0.042 χ^2 /NDF: 443560.5/15

Left: 214.261 $\pm$ 0.031 χ^2 /NDF: 990815.0/32

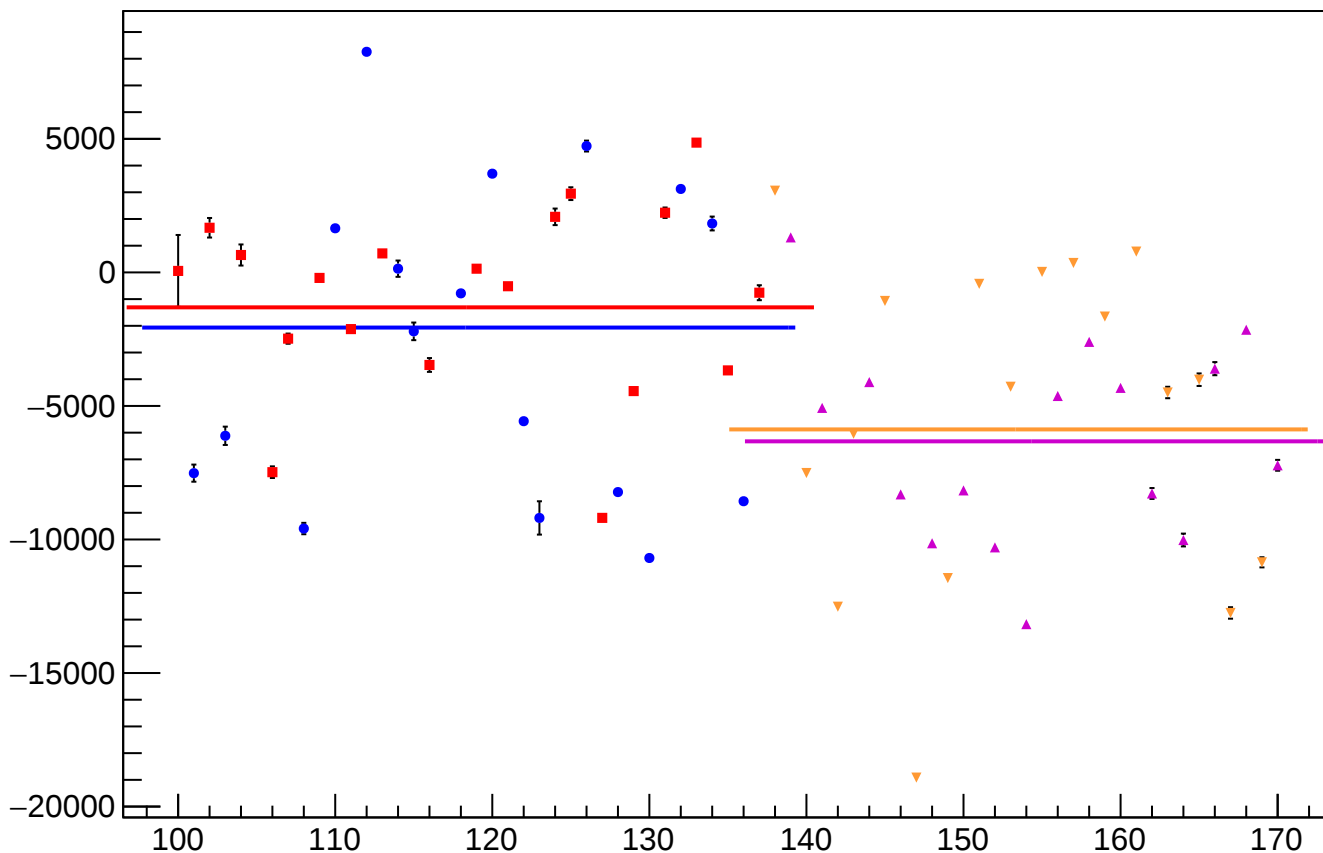
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 210.348 $\pm$ 0.035 χ^2 /NDF: 1133965.8/32

Out: 218.942 $\pm$ 0.036 χ^2 /NDF: 1375743.3/35

All: 214.548 $\pm$ 0.025 χ^2 /NDF: 2539159.2/68

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: -6325.366 $\pm$ 37.434 χ^2/NDF :9649.1/15

Left: -6097.561 $\pm$ 26.202 χ^2/NDF : 39749.3/32

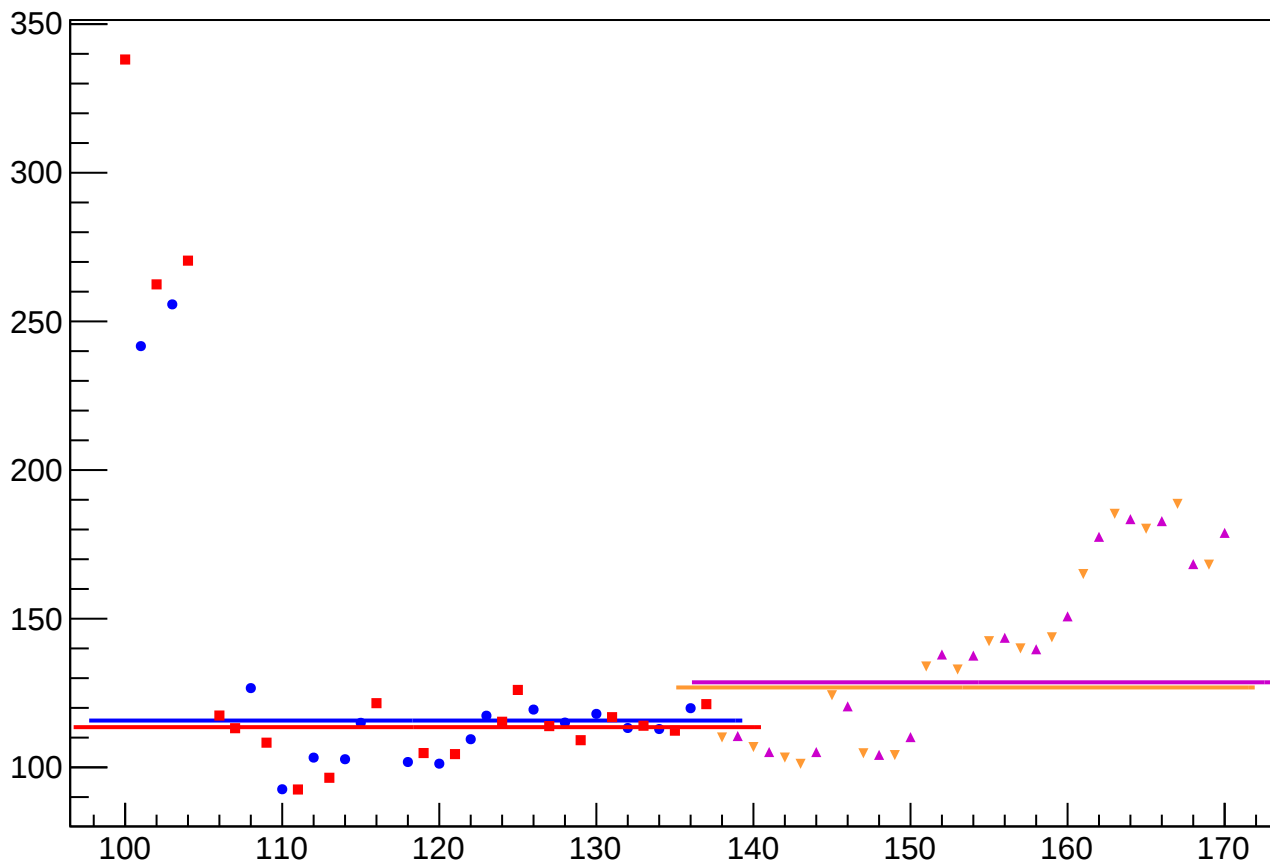
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4685.603 $\pm$ 29.359 χ^2/NDF :31167.5/32

Out: -4053.901 $\pm$ 28.436 χ^2/NDF :42117.7/35

All: -4359.666 $\pm$ 20.426 χ^2/NDF : 73524.1/68

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: 128.604+/-0.026 χ^2/NDF : 950273.2/15

Left: 127.721+/-0.019 χ^2/NDF : 1968051.3/32

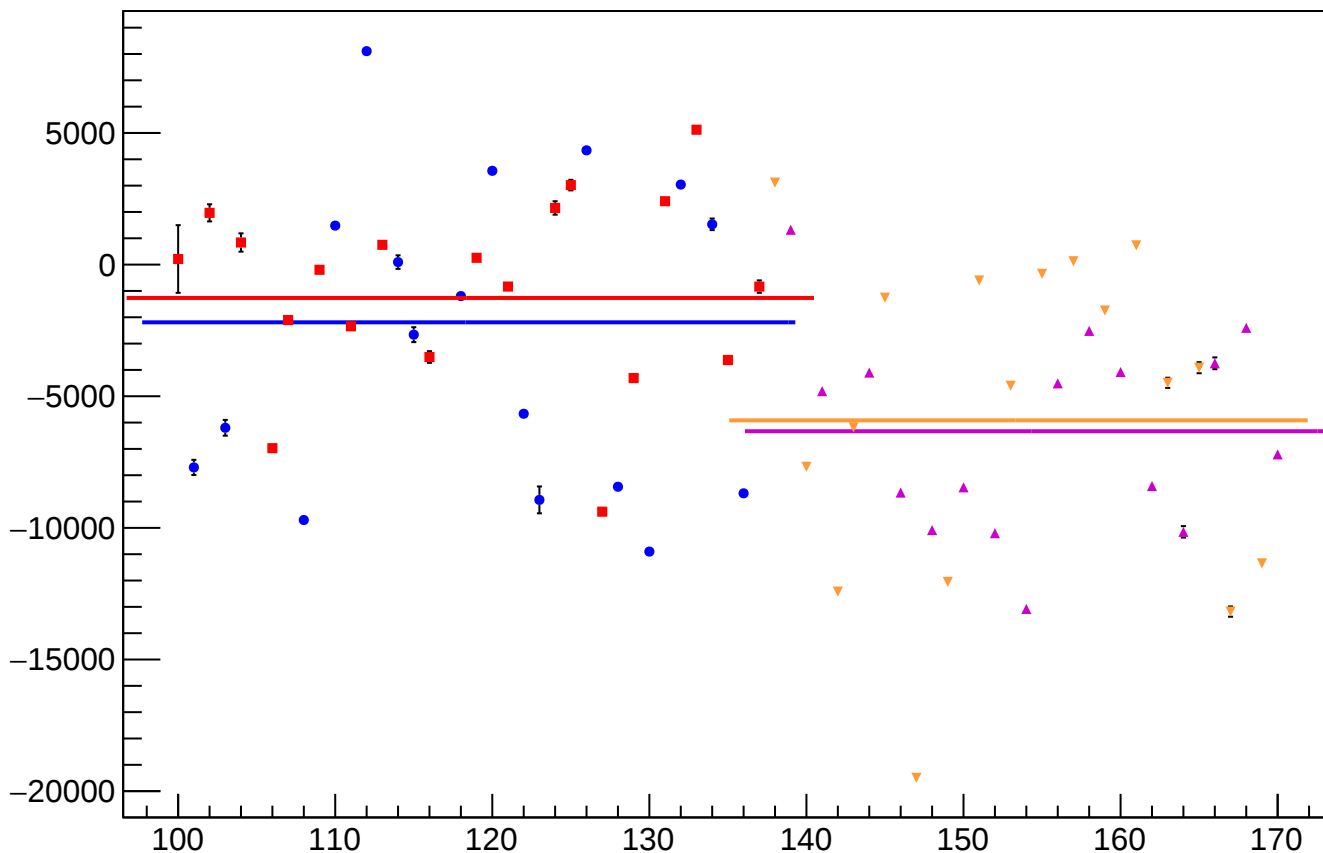
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 123.653+/-0.021 χ^2/NDF : 1785197.0/32

Out: 121.540+/-0.020 χ^2/NDF : 1918004.3/35

All: 122.563+/-0.014 χ^2/NDF : 3708547.1/68

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: -6328.793+/-34.253 χ^2/NDF : 11942.4/15

Left: -6115.650+/-23.836 χ^2/NDF : 48848.3/32

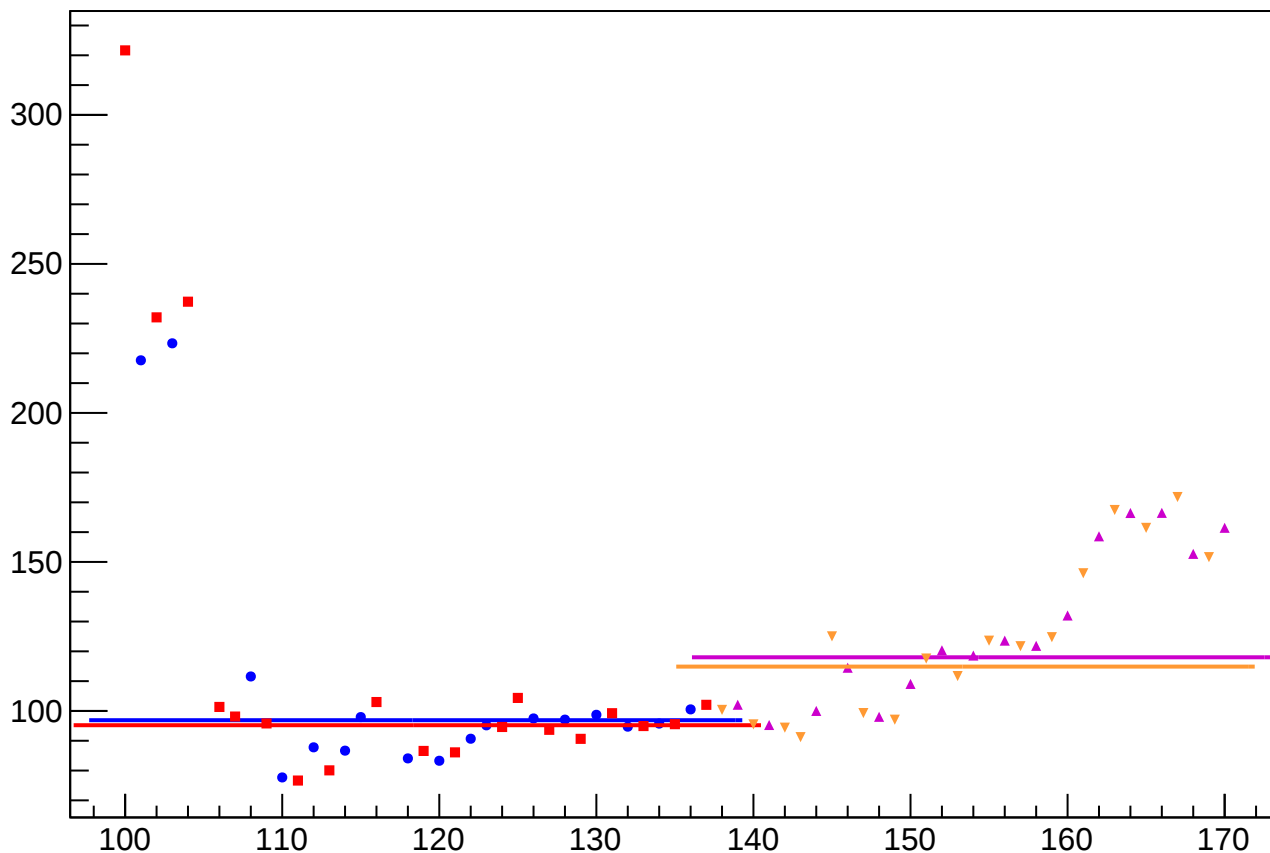
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4576.002+/-26.002 χ^2/NDF : 40935.7/32

Out: -3906.289+/-25.012 χ^2/NDF : 53860.3/35

All: -4228.160+/-18.026 χ^2/NDF : 95140.6/68

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894 ± 0.028 $\chi^2/\text{NDF}: 817229.9/16$

Left Out: 114.881 ± 0.023 $\chi^2/\text{NDF}: 919953.3/16$

Right Out: 95.213 ± 0.027 $\chi^2/\text{NDF}: 859809.7/18$

Left In: 118.006 ± 0.024 $\chi^2/\text{NDF}: 770407.2/15$

Left: 116.394 ± 0.017 $\chi^2/\text{NDF}: 1698945.8/32$

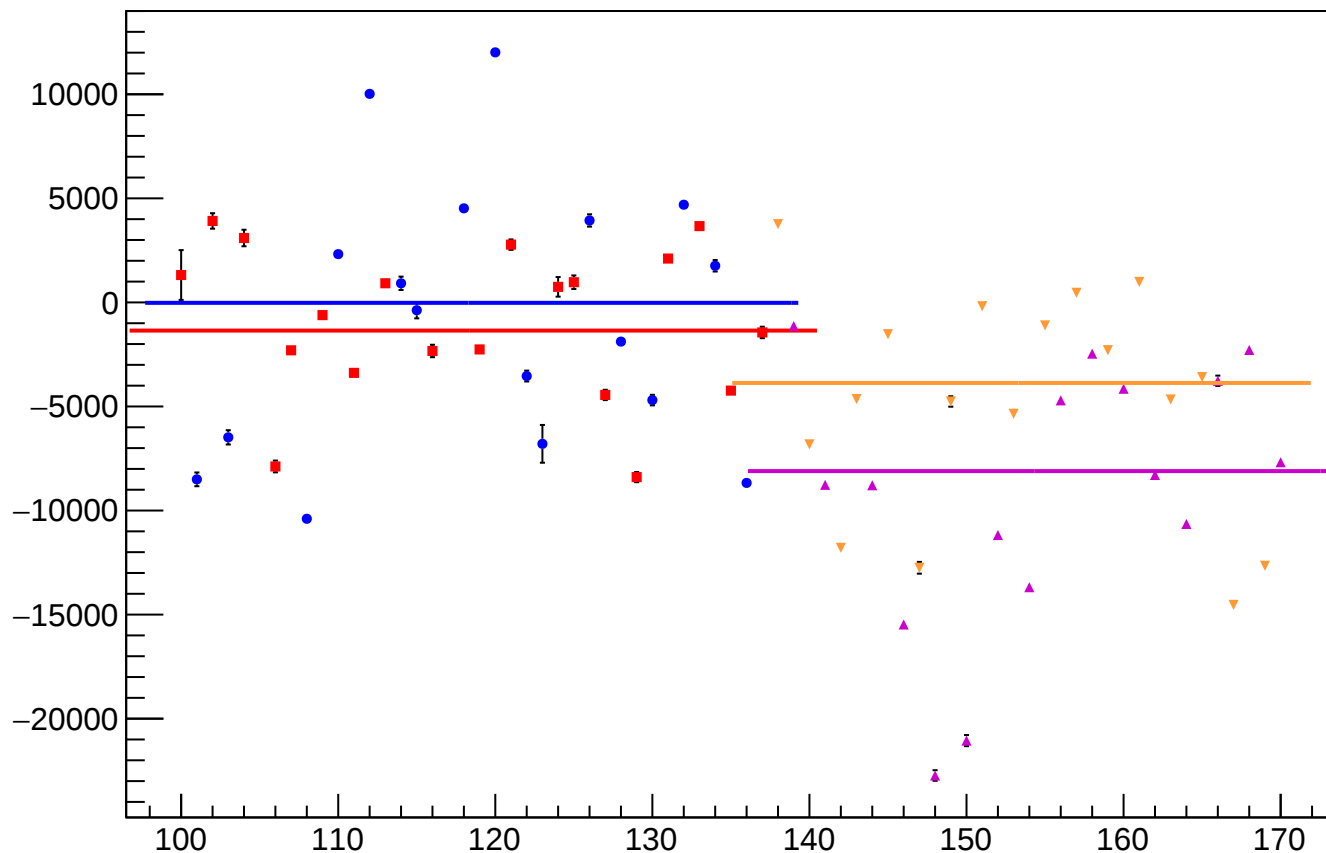
Right: 96.013 ± 0.019 $\chi^2/\text{NDF}: 1678895.4/35$

In: 109.060 ± 0.018 $\chi^2/\text{NDF}: 1909591.5/32$

Out: 106.381 ± 0.018 $\chi^2/\text{NDF}: 2083207.9/35$

All: 107.669 ± 0.013 $\chi^2/\text{NDF}: 4003820.8/68$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -3869.232 ± 45.729 $\chi^2/\text{NDF}: 11656.4/16$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -8104.825 ± 47.548 $\chi^2/\text{NDF}: 13434.0/15$

Left: -5904.477 ± 32.960 $\chi^2/\text{NDF}: 29212.7/32$

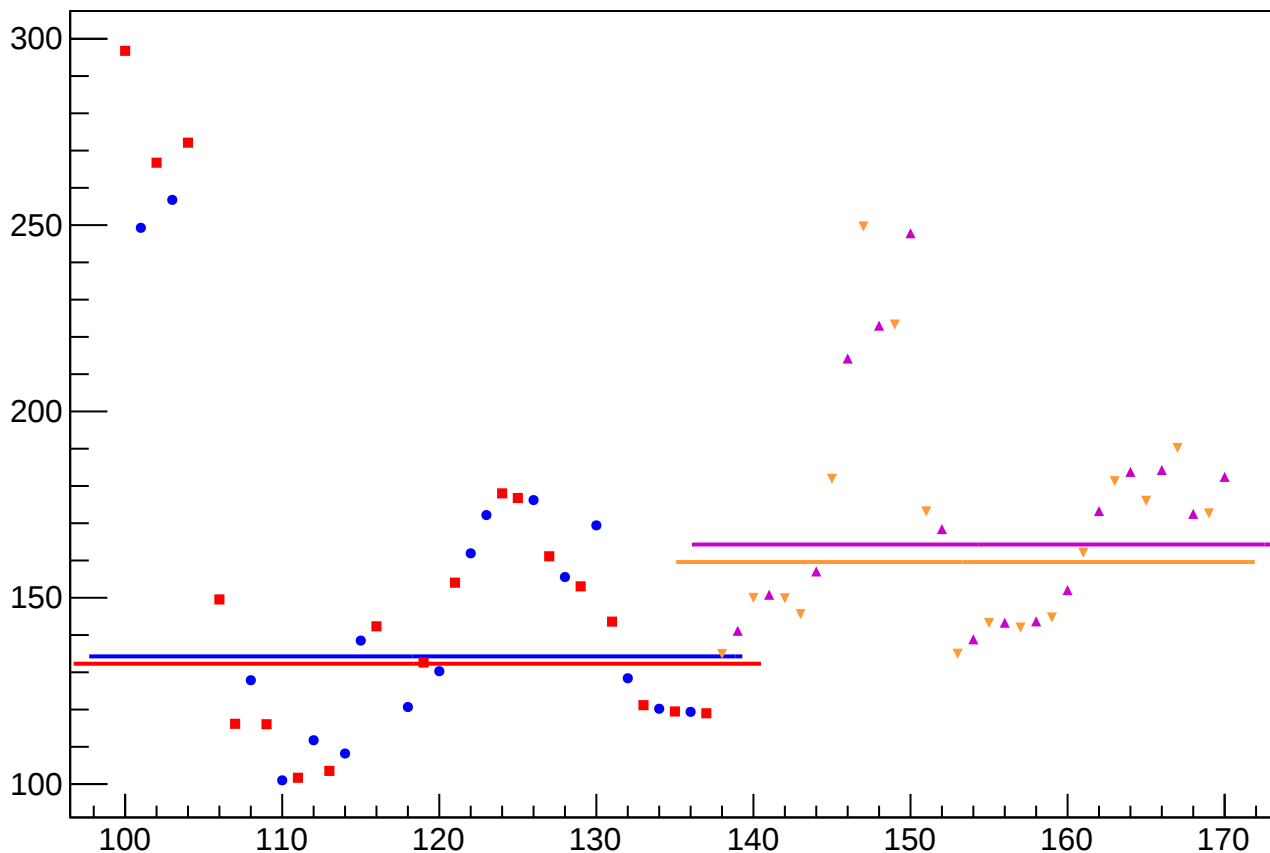
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4621.084 ± 35.870 $\chi^2/\text{NDF}: 42253.2/32$

Out: -2780.797 ± 34.445 $\chi^2/\text{NDF}: 16803.1/35$

All: -3663.662 ± 24.844 $\chi^2/\text{NDF}: 60425.7/68$

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: 164.290 $\pm$ 0.034 χ^2 /NDF: 625546.3/15

Left: 161.845 $\pm$ 0.023 χ^2 /NDF: 1265773.8/32

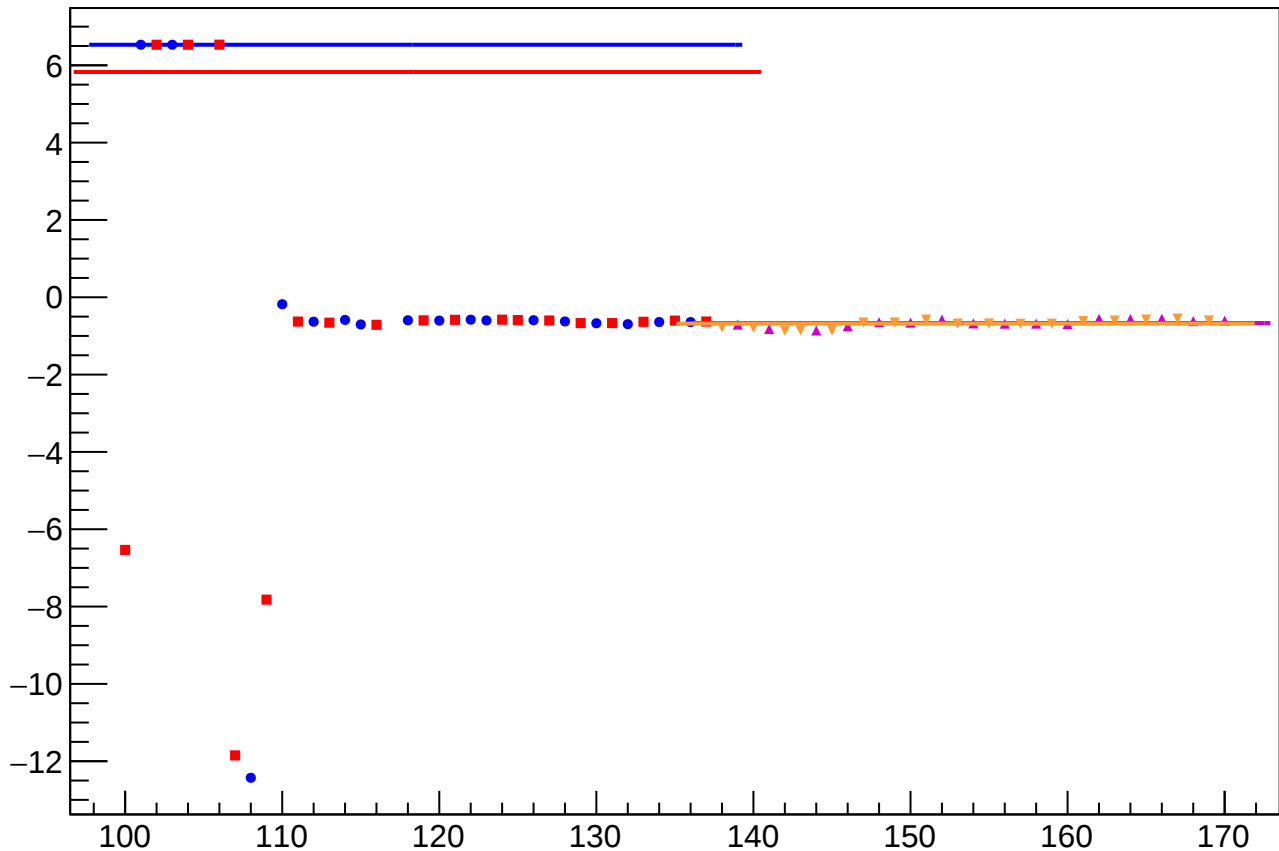
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 151.354 $\pm$ 0.025 χ^2 /NDF: 1757788.9/32

Out: 147.780 $\pm$ 0.024 χ^2 /NDF: 1807905.8/35

All: 149.495 $\pm$ 0.018 χ^2 /NDF: 3576020.7/68

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: -0.667+/-0.000 χ^2/NDF : 96436711.4/15

Left: -0.674+/-0.000 χ^2/NDF : 223968841.8/32

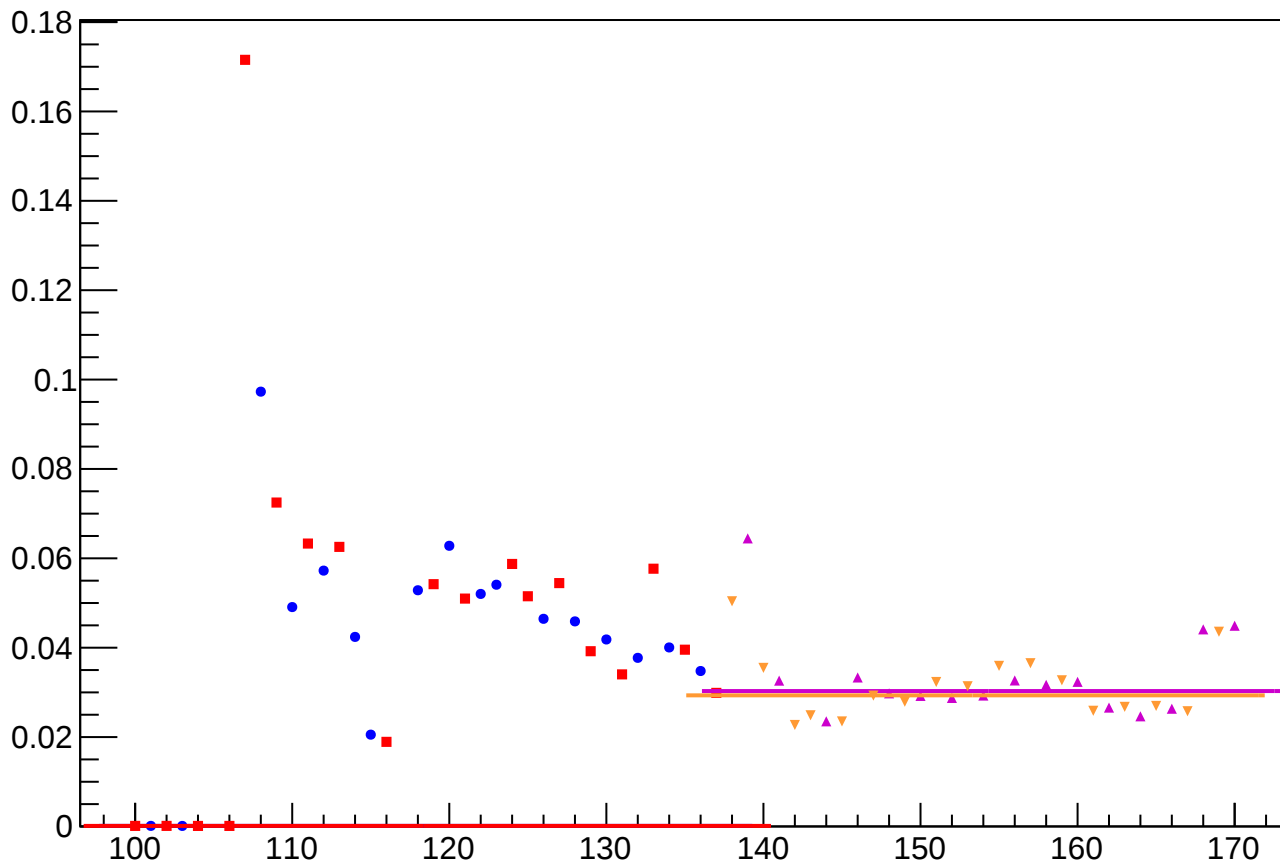
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/32

In: 6.531+/-0.000 χ^2/NDF : 683951625235.9/32

Out: 5.827+/-0.000 χ^2/NDF : 756438960114579.5/32

All: 6.154+/-0.000 χ^2/NDF : 77712003036857

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 : 883106.4/15

Left: 0.030+/-0.000 χ^2/NDF : 1620468.2/32

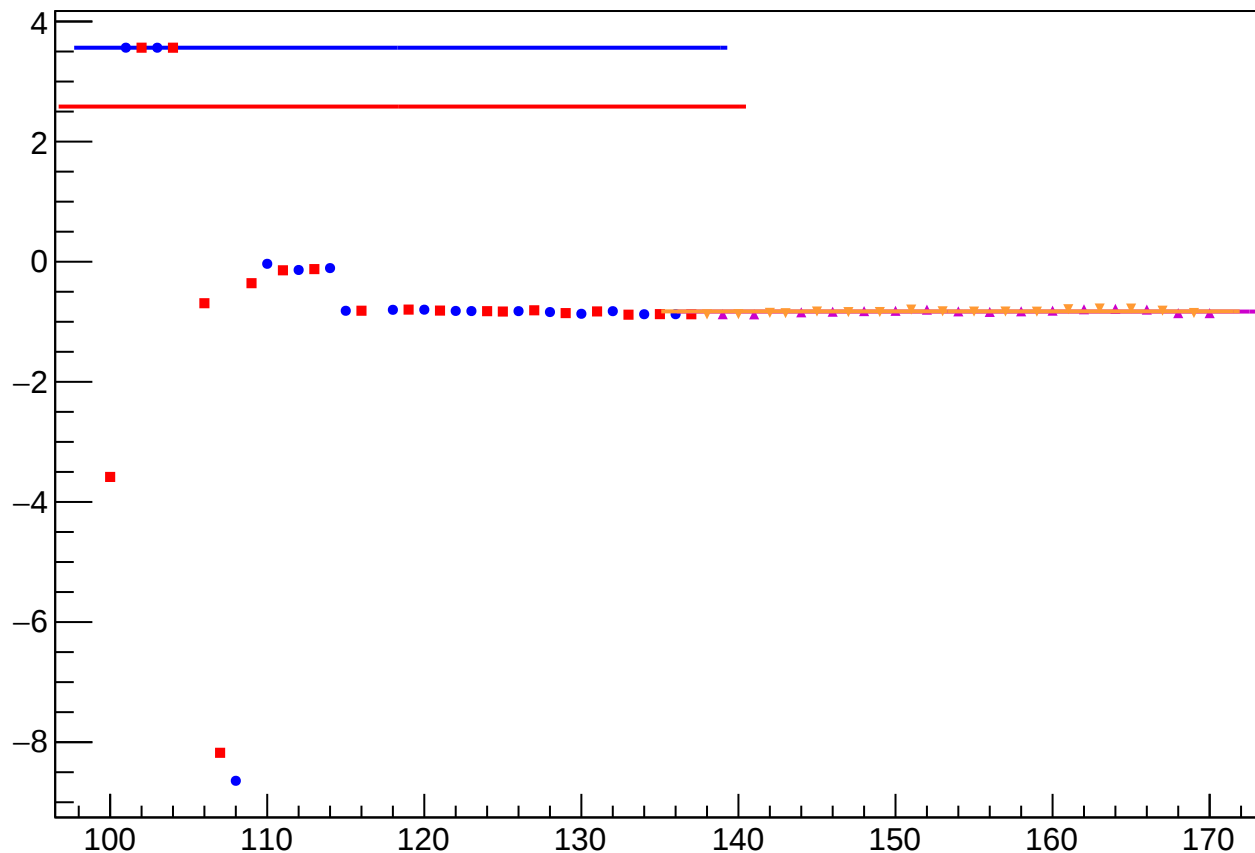
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 29449099.6/32

Out: 0.000+/-0.000 χ^2/NDF : 29850777.7/35

All: 0.000+/-0.000 χ^2/NDF : 59300252.6/68

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: -0.830+/-0.000 χ^2/NDF : 116594977.6/15

Left: -0.828+/-0.000 χ^2/NDF : 247735487.1/32

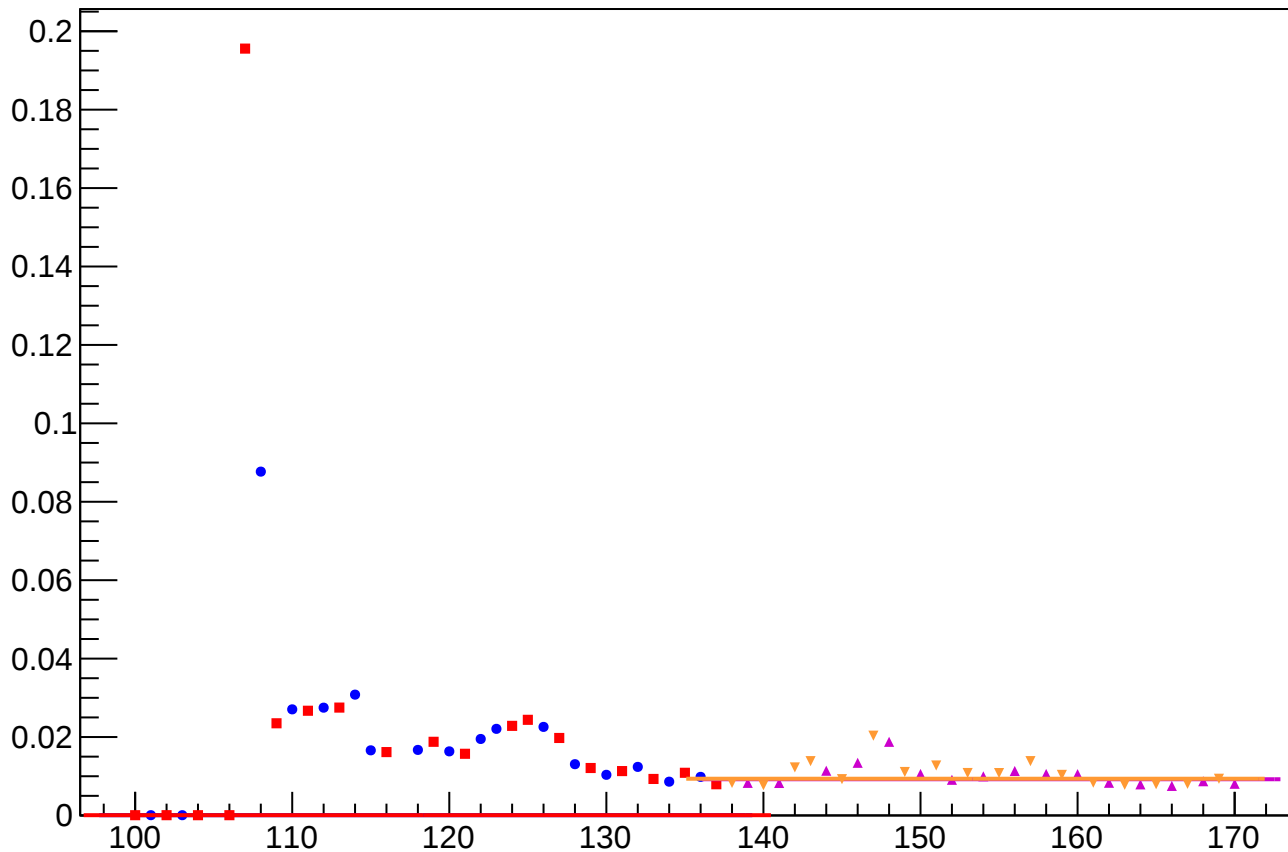
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 2760738599213.3/32

Out: 2.582+/-0.000 χ^2/NDF : 1254838453113636.0

All: 3.039+/-0.000 χ^2/NDF : 13857422278618

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 : 790680.6/15

Left: 0.009 +/- 0.000 χ^2/NDF : 1852400.0/32

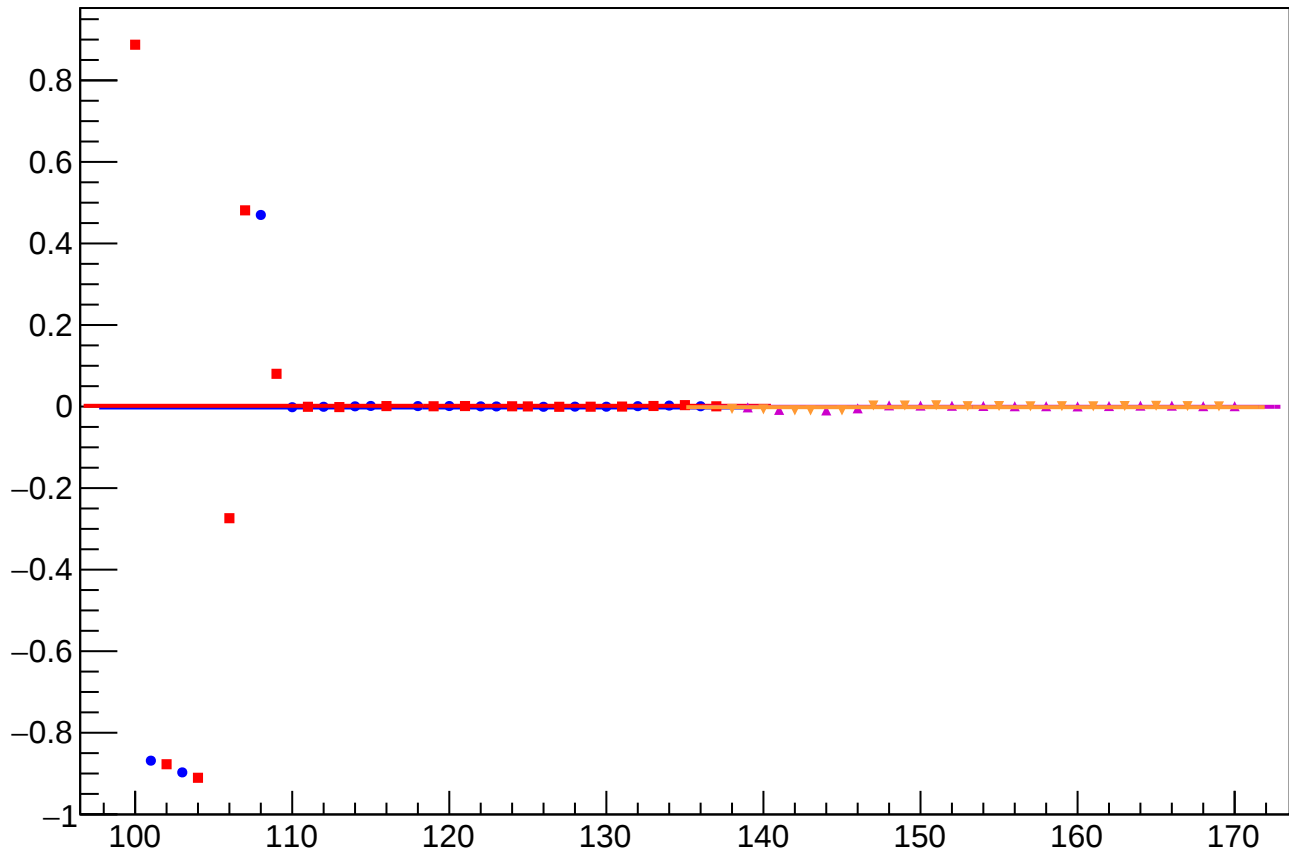
Right: 0.000 +/- 0.000 χ^2/NDF : 19728618.4/35

In: 0.000 +/- 0.000 χ^2/NDF : 30425825.2/32

Out: 0.000 +/- 0.000 χ^2/NDF : 30754125.0/35

All: 0.000 +/- 0.000 χ^2/NDF : 61180651.4/68

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 : 67344567.4/15

Left: -0.001+/-0.000 χ^2/NDF : 162235497.6/32

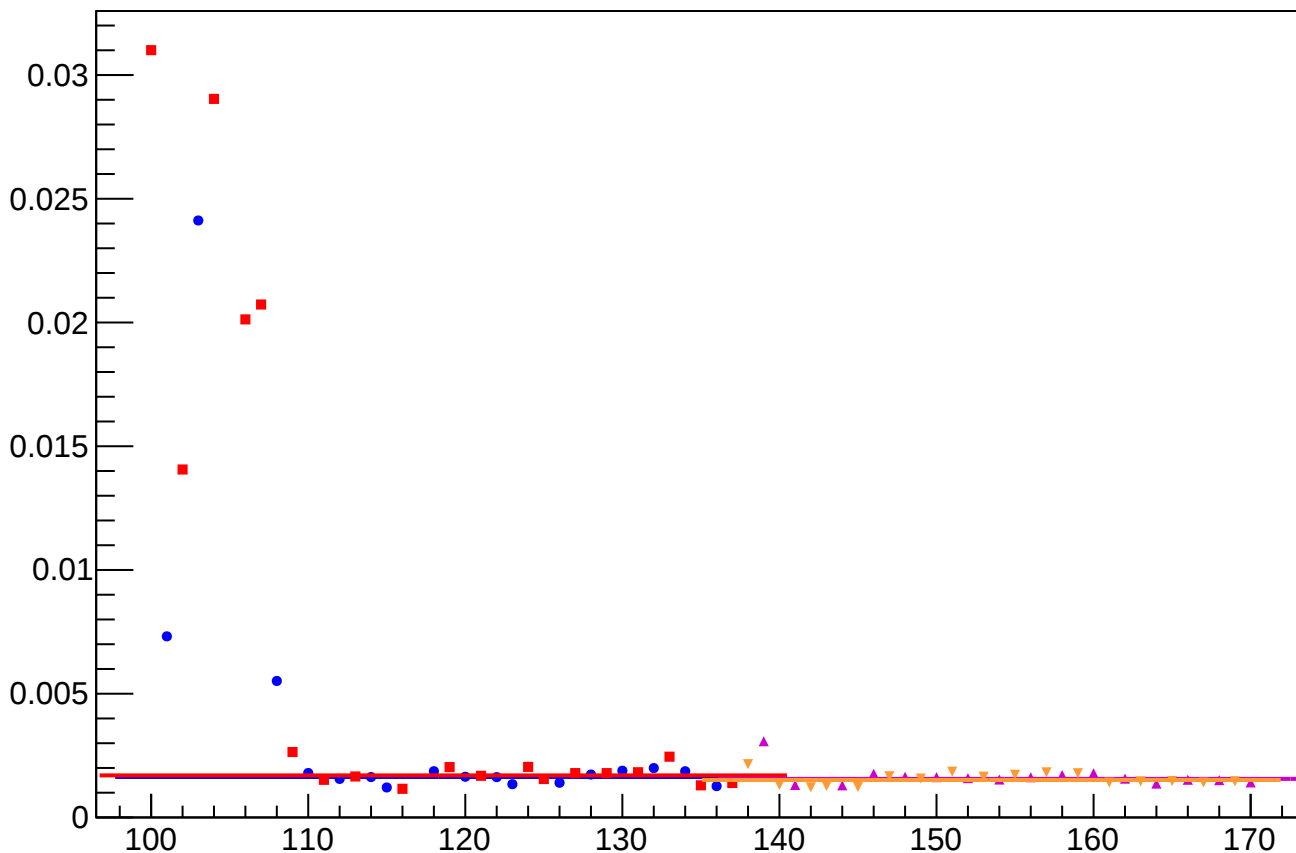
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9866218505.0/32

Out: -0.001+/-0.000 χ^2/NDF : 3147410061.6/35

All: -0.001+/-0.000 χ^2/NDF : 13014165147.9/70

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF: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:515618.8/15

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 954173.6/32

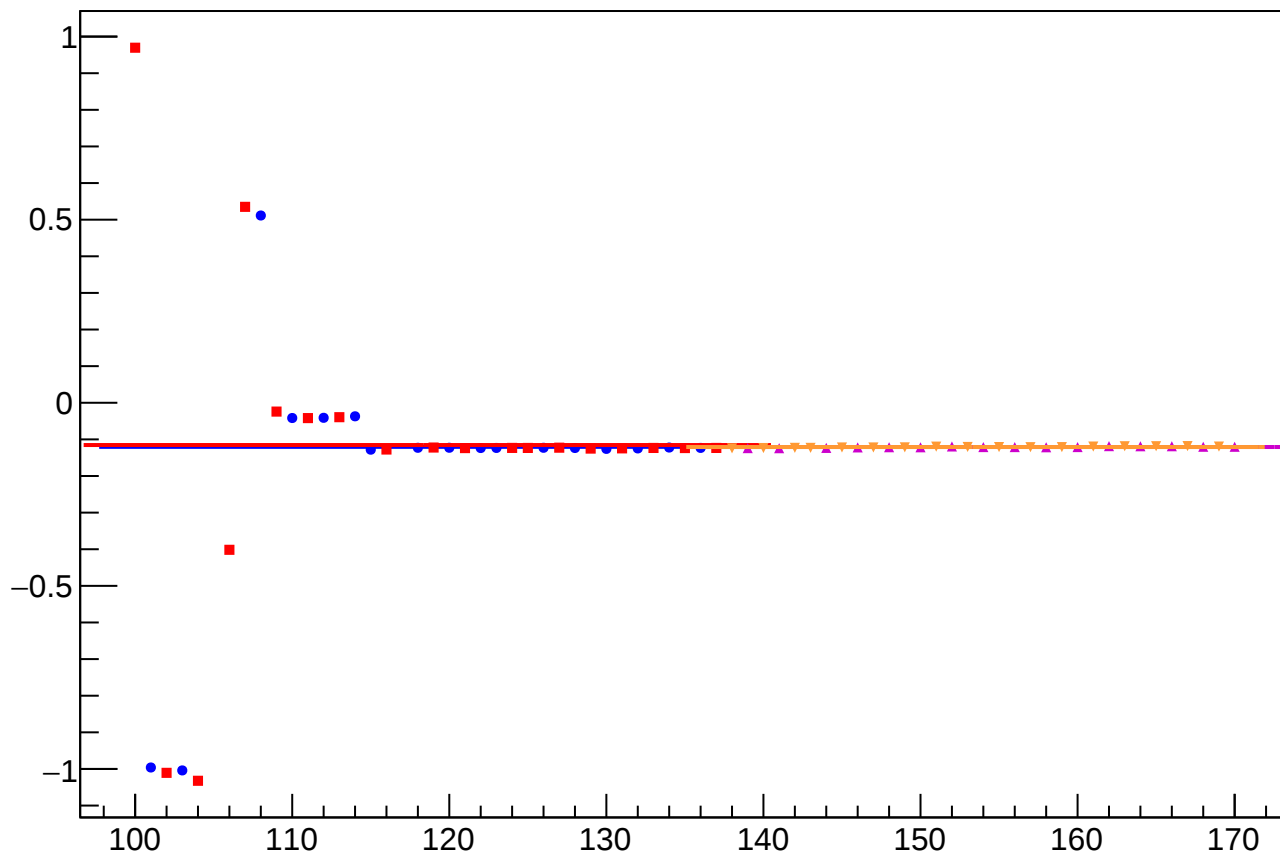
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2449137.6/32

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3534259.7/35

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5985562.5/68

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 : 28038152.2/15

Left: -0.121+/-0.000 χ^2/NDF : 60002191.9/32

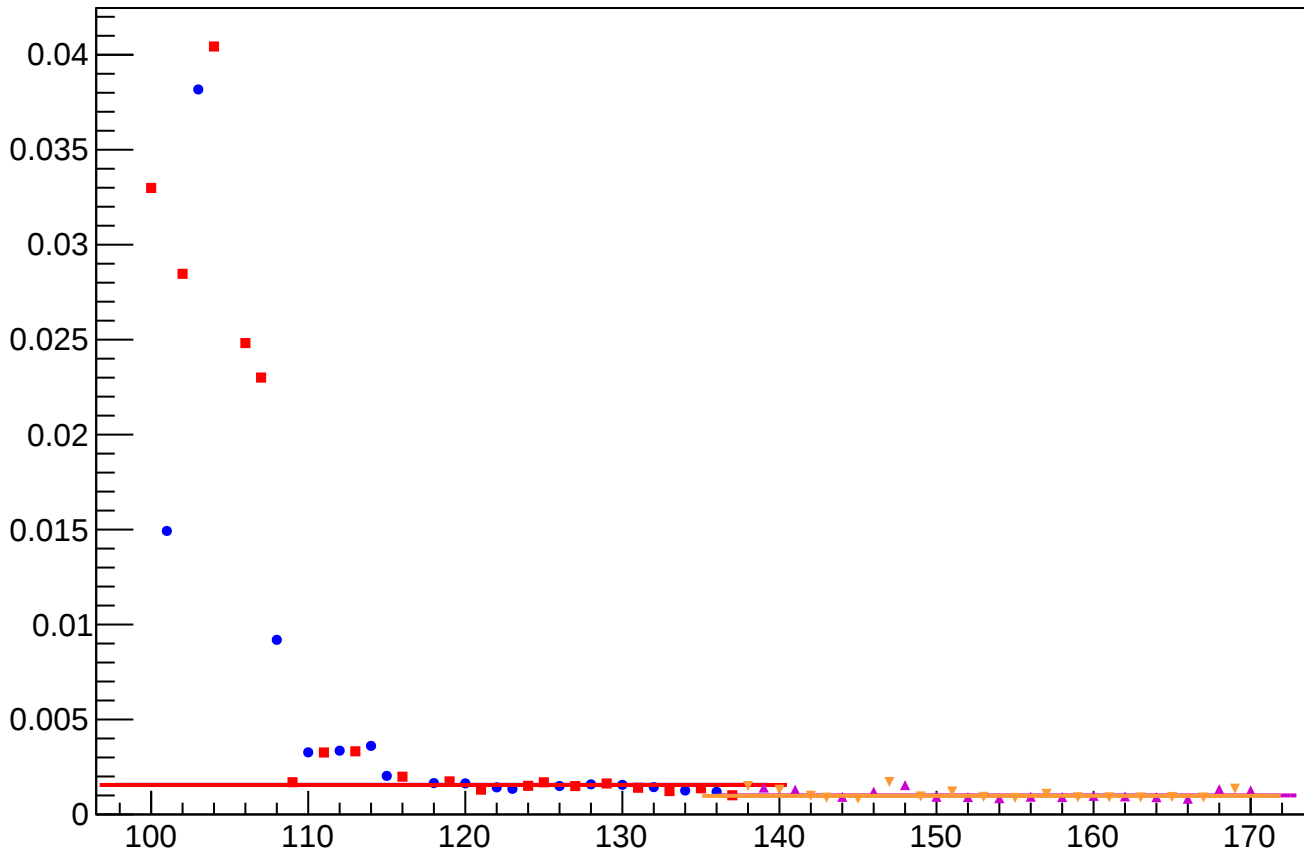
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960715730.0/32

Out: -0.120+/-0.000 χ^2/NDF : 2537052523.4/35

All: -0.120+/-0.000 χ^2/NDF : 6500647710.9/6

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 :733544.8/15

Left: 0.001+/-0.000 χ^2/NDF : 1580740.0/32

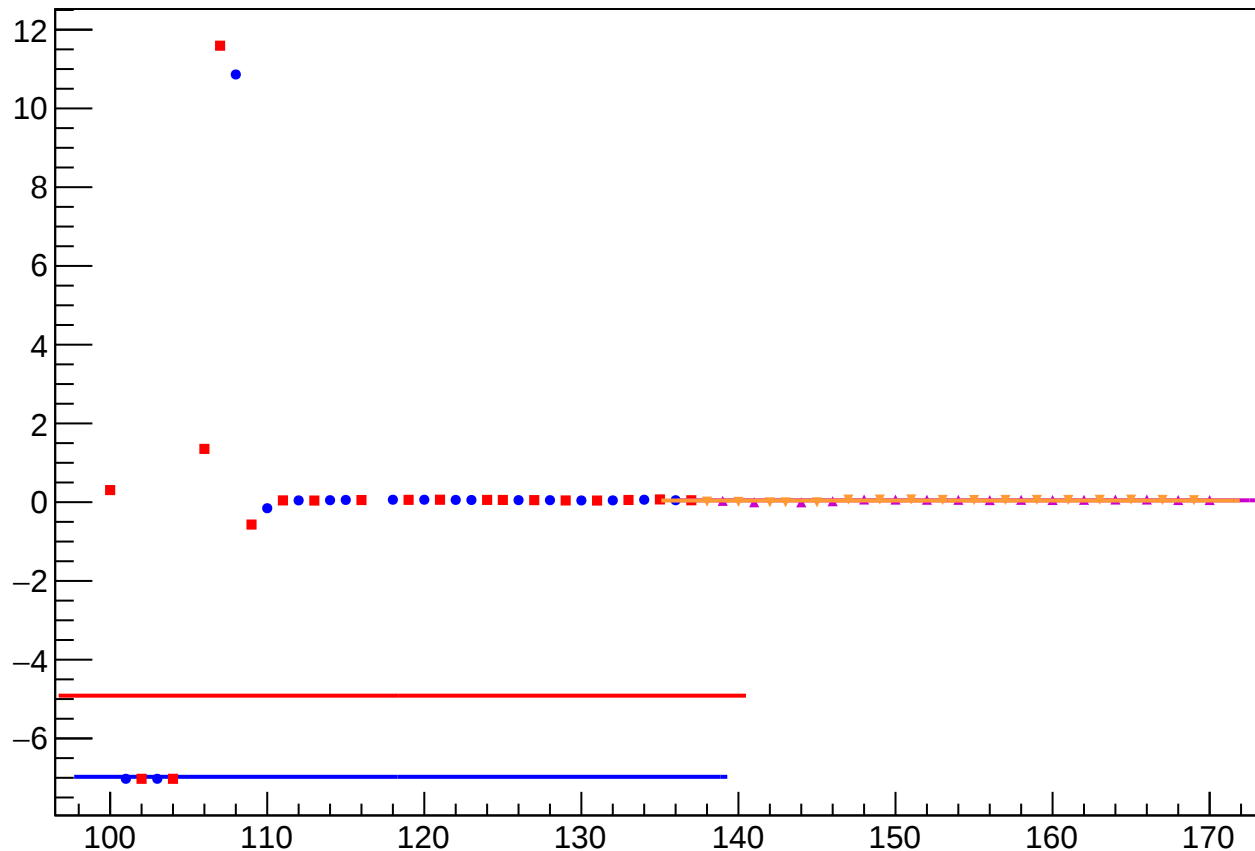
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF :4642147.7/32

Out: 0.001+/-0.000 χ^2/NDF :5453238.8/35

All: 0.001+/-0.000 χ^2/NDF : 10103474.4/68

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16

Left Out: 0.042+/-0.000 χ^2/NDF : 94350398.3/16

Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18

Left In: 0.047+/-0.000 χ^2/NDF : 74616088.3/15

Left: 0.044+/-0.000 χ^2/NDF : 170562768.6/32

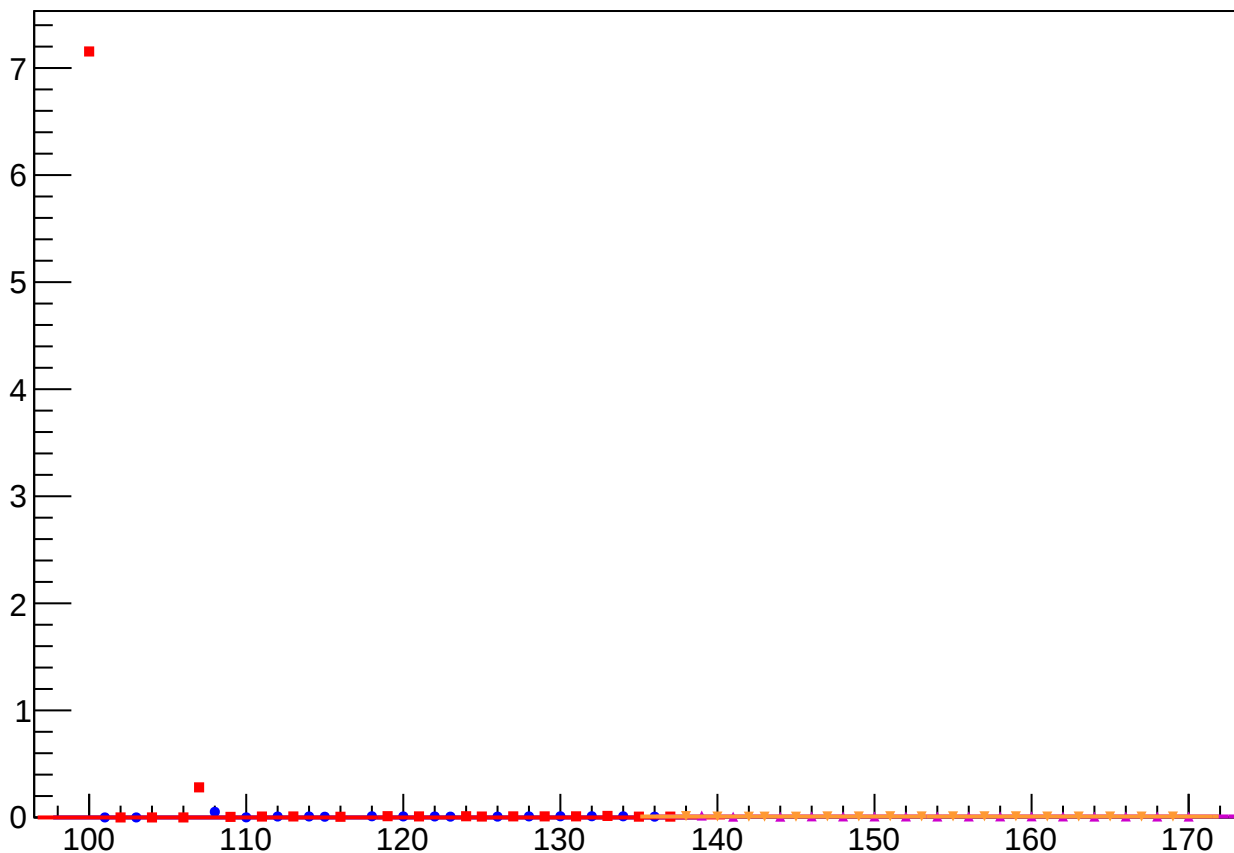
Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9

In: -6.942+/-0.000 χ^2/NDF : 14613590263828.7/32

Out: -4.891+/-0.000 χ^2/NDF : 368453725928314.9

All: -5.872+/-0.000 χ^2/NDF : 4389624266738

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 :508273.4/15

Left: 0.009+/-0.000 χ^2/NDF : 940154.8/32

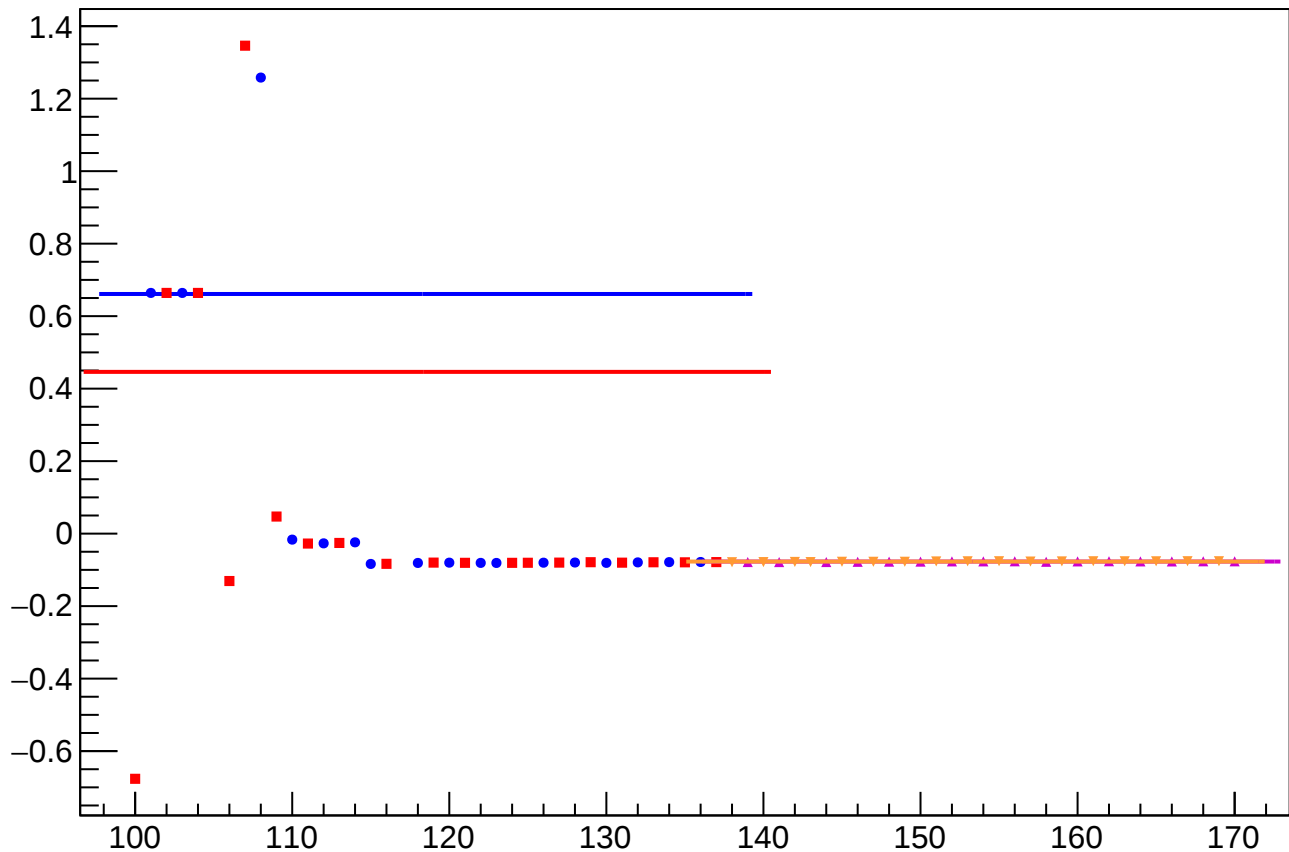
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF :28122863.5/32

Out: 0.000+/-0.000 χ^2/NDF :28539167.2/35

All: 0.000+/-0.000 χ^2/NDF : 56662900.1/68

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 55364865.8/32

Left Out: -0.077+/-0.000

χ^2/NDF : 32189929.1/16

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9/32

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.651+/-0.000

χ^2/NDF : 25543193910129.0/32

Out: 0.439+/-0.000

χ^2/NDF : 415536754628957.1/32

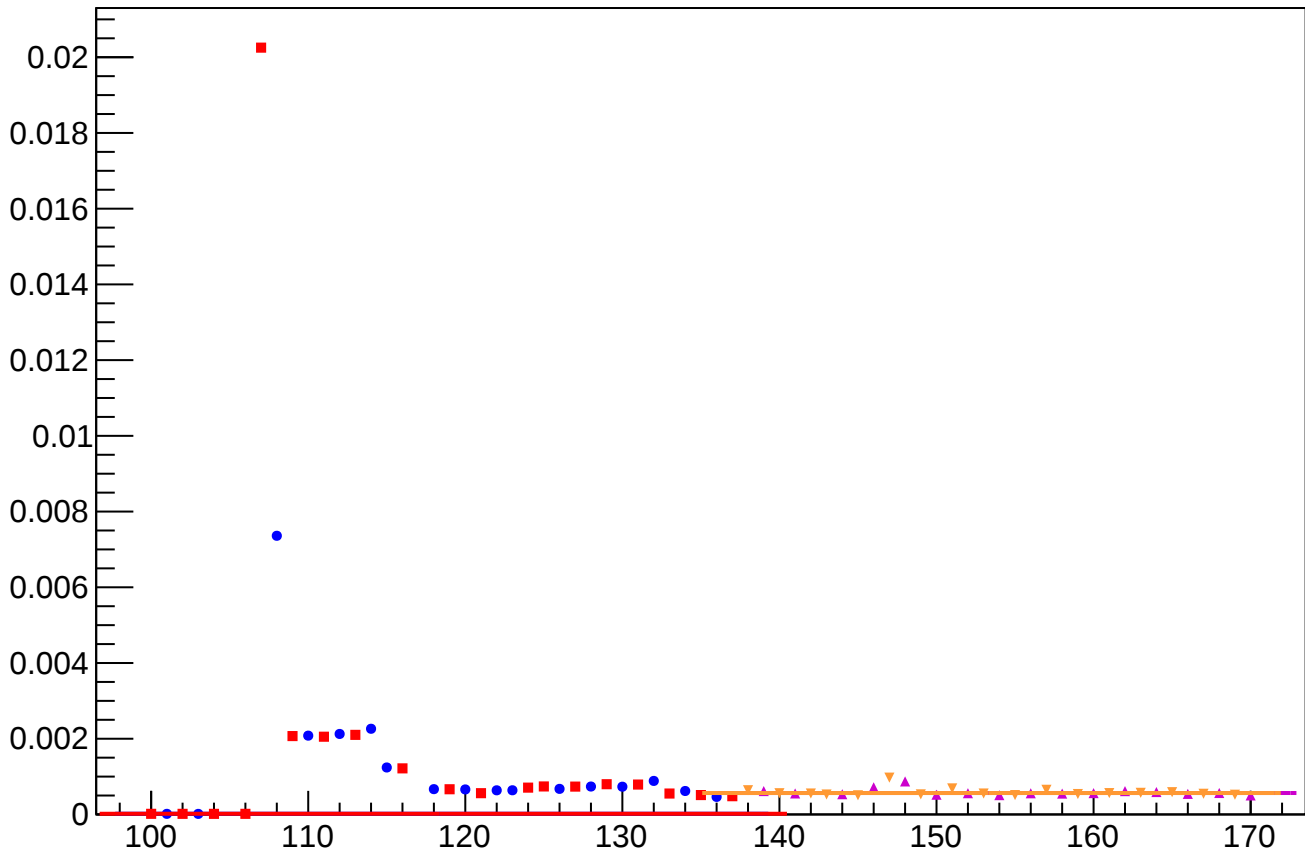
Left In: -0.077+/-0.000

χ^2/NDF : 23173948.5/15

All: 0.540+/-0.000

χ^2/NDF : 50275610758375.0/64

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 : 343184.7/15

Left: 0.001+/-0.000 χ^2/NDF : 766584.5/32

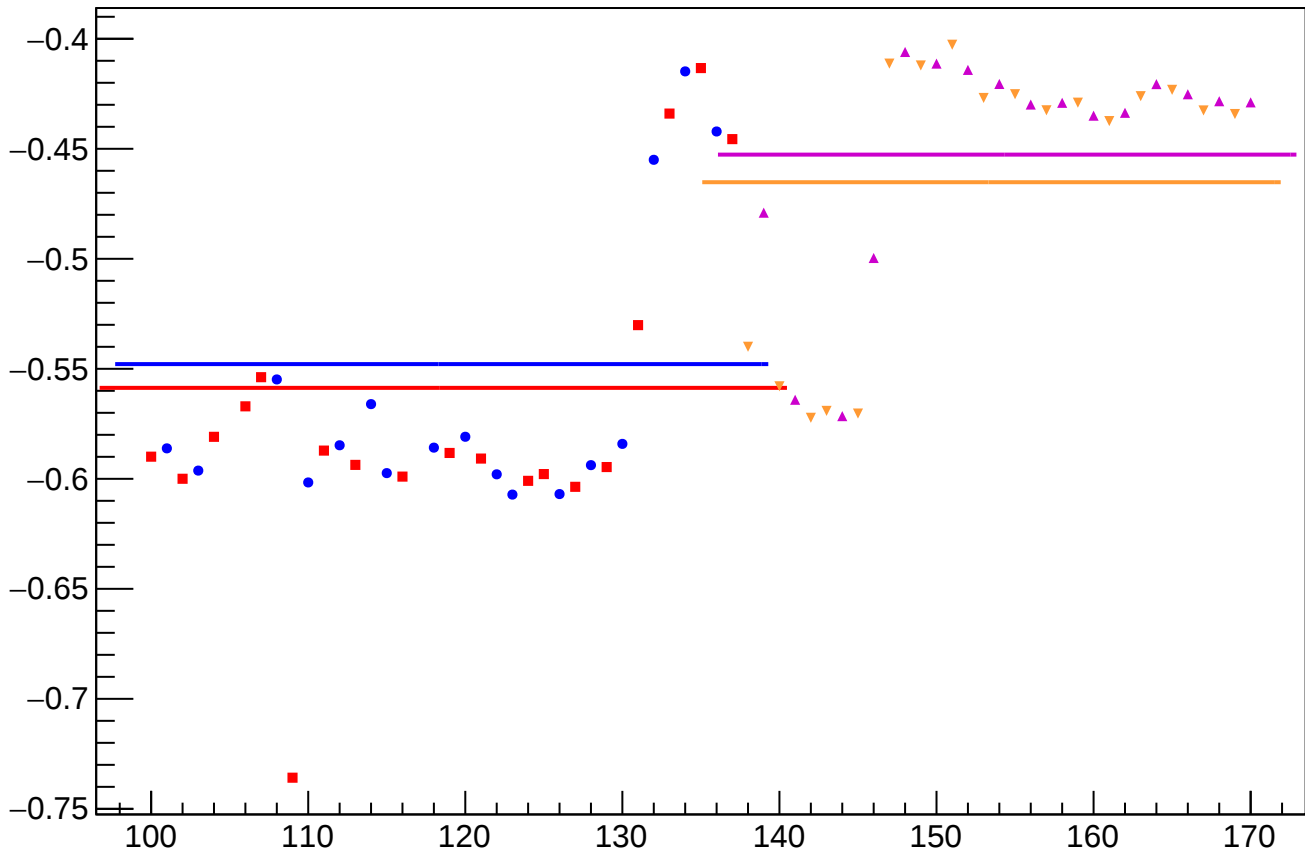
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 32229243.9/32

Out: 0.000+/-0.000 χ^2/NDF : 32065053.2/35

All: 0.000+/-0.000 χ^2/NDF : 64295493.5/68

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: -0.453+/-0.000 χ^2/NDF : 75090848.0/15

Left: -0.459+/-0.000 χ^2/NDF : 180941505.5/32

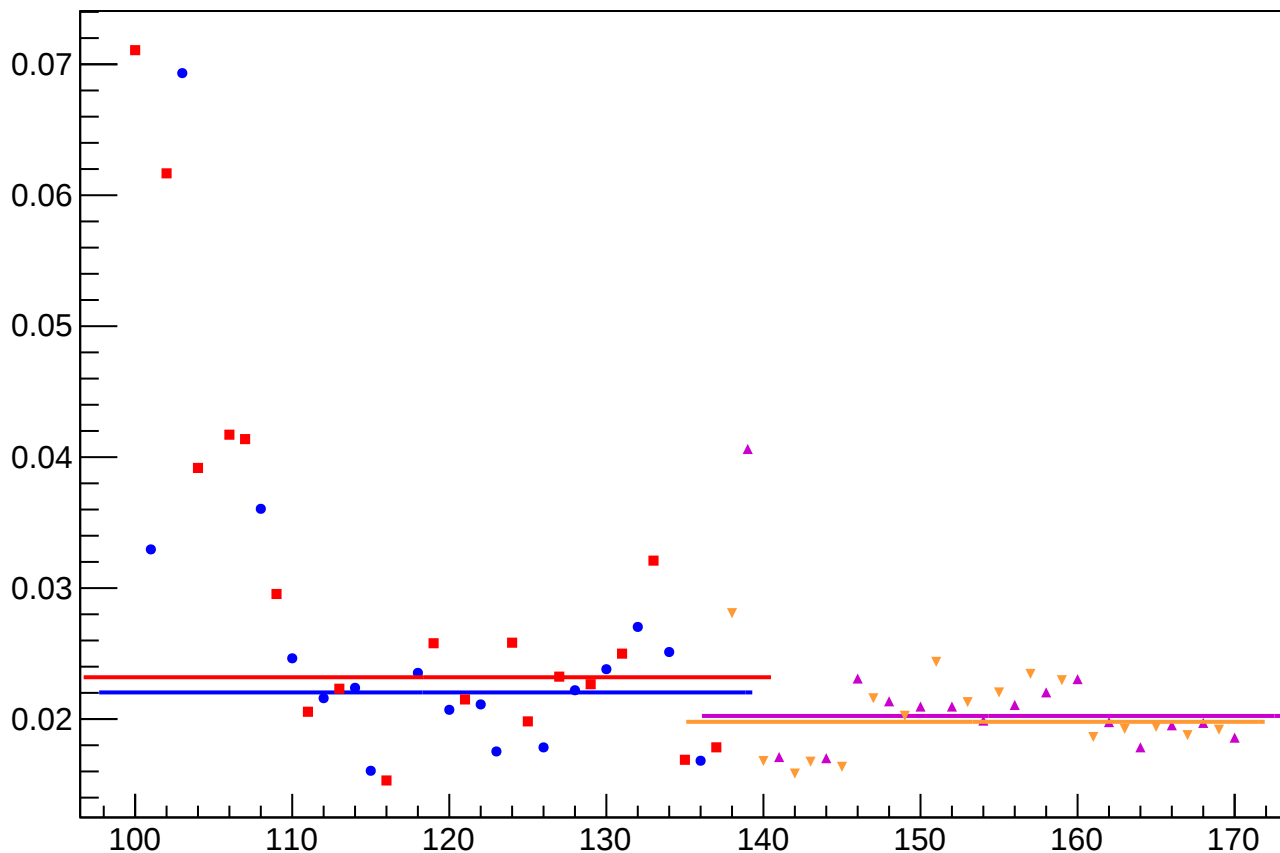
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.481+/-0.000 χ^2/NDF : 190343165.5/32

Out: -0.491+/-0.000 χ^2/NDF : 232066539.1/35

All: -0.486+/-0.000 χ^2/NDF : 424151662.5/68

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 : 513991.3/15

Left: 0.020+/-0.000 χ^2/NDF : 917956.3/32

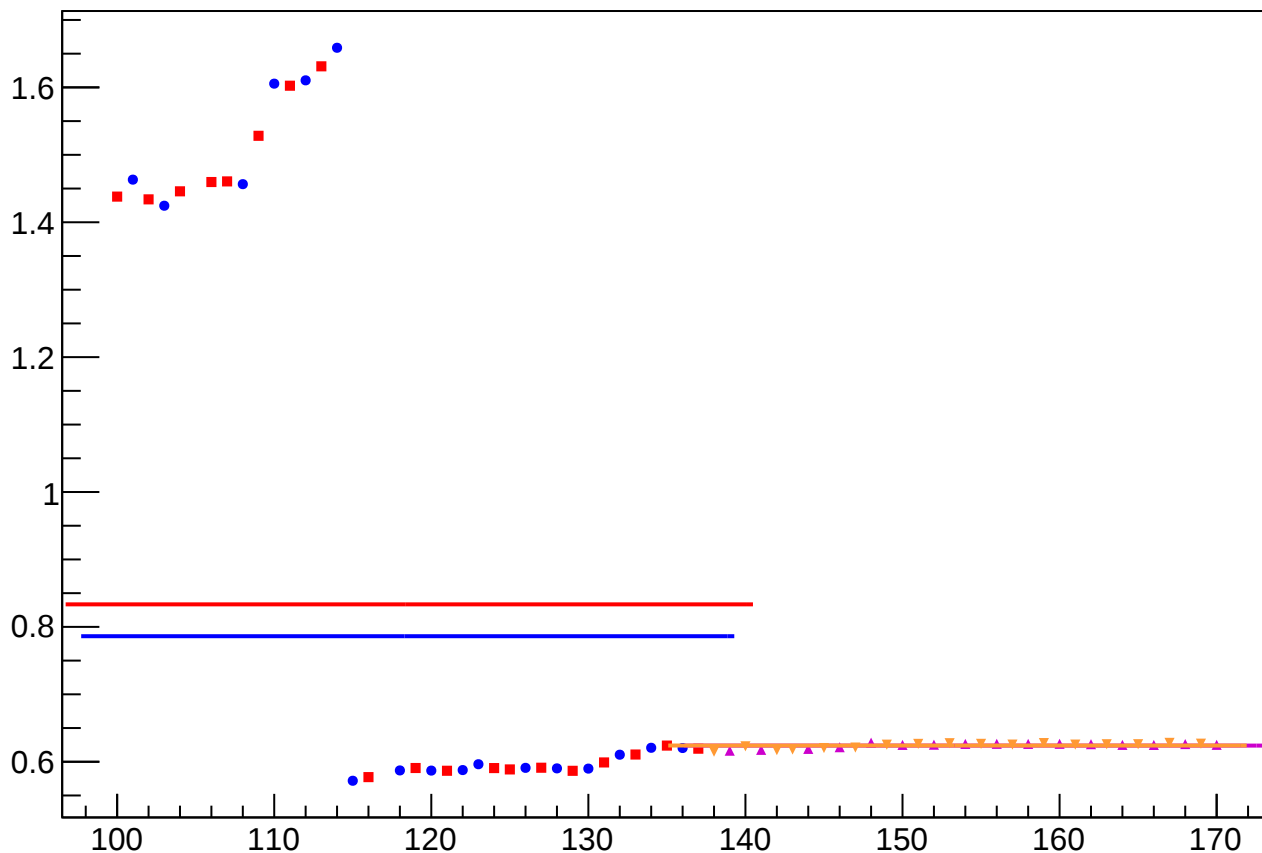
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1520381.1/32

Out: 0.021+/-0.000 χ^2/NDF : 1721680.6/35

All: 0.021+/-0.000 χ^2/NDF : 3242118.5/68

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 0.000 χ^2 /NDF: 3590113316.1/16

Left Out: 0.624 $\pm$ 0.000 χ^2 /NDF:1185978.1/16

Right Out: 0.833 $\pm$ 0.000 χ^2 /NDF: 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2 /NDF:926642.2/15

Left: 0.624 $\pm$ 0.000 χ^2 /NDF: 2113152.5/32

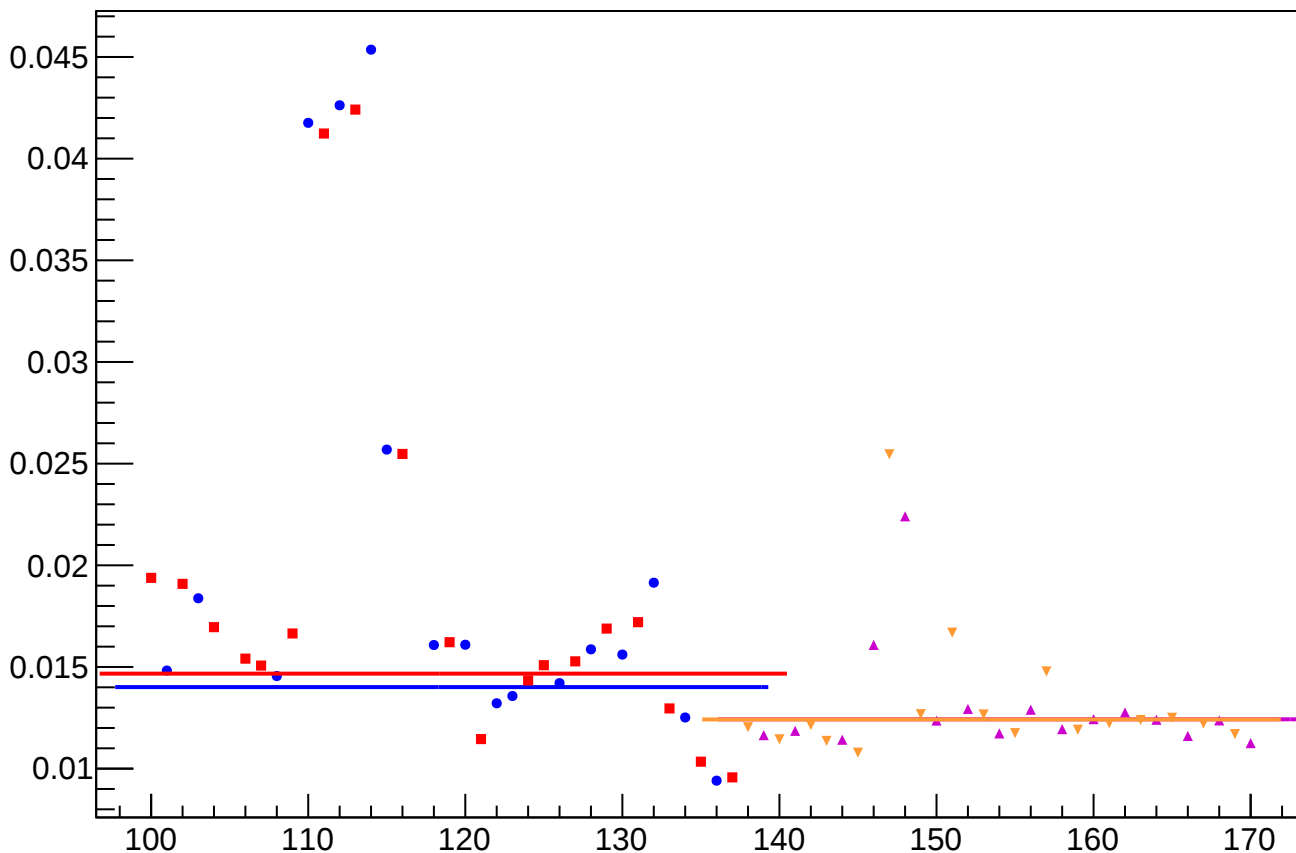
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.668 $\pm$ 0.000 χ^2 /NDF:4144740533.1/32

Out: 0.679 $\pm$ 0.000 χ^2 /NDF:5058435203.3/35

All: 0.674 $\pm$ 0.000 χ^2 /NDF: 9209852107.5/68

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: 0.012+/-0.000 χ^2/NDF :435744.8/15

Left: 0.012+/-0.000 χ^2/NDF : 1031281.9/32

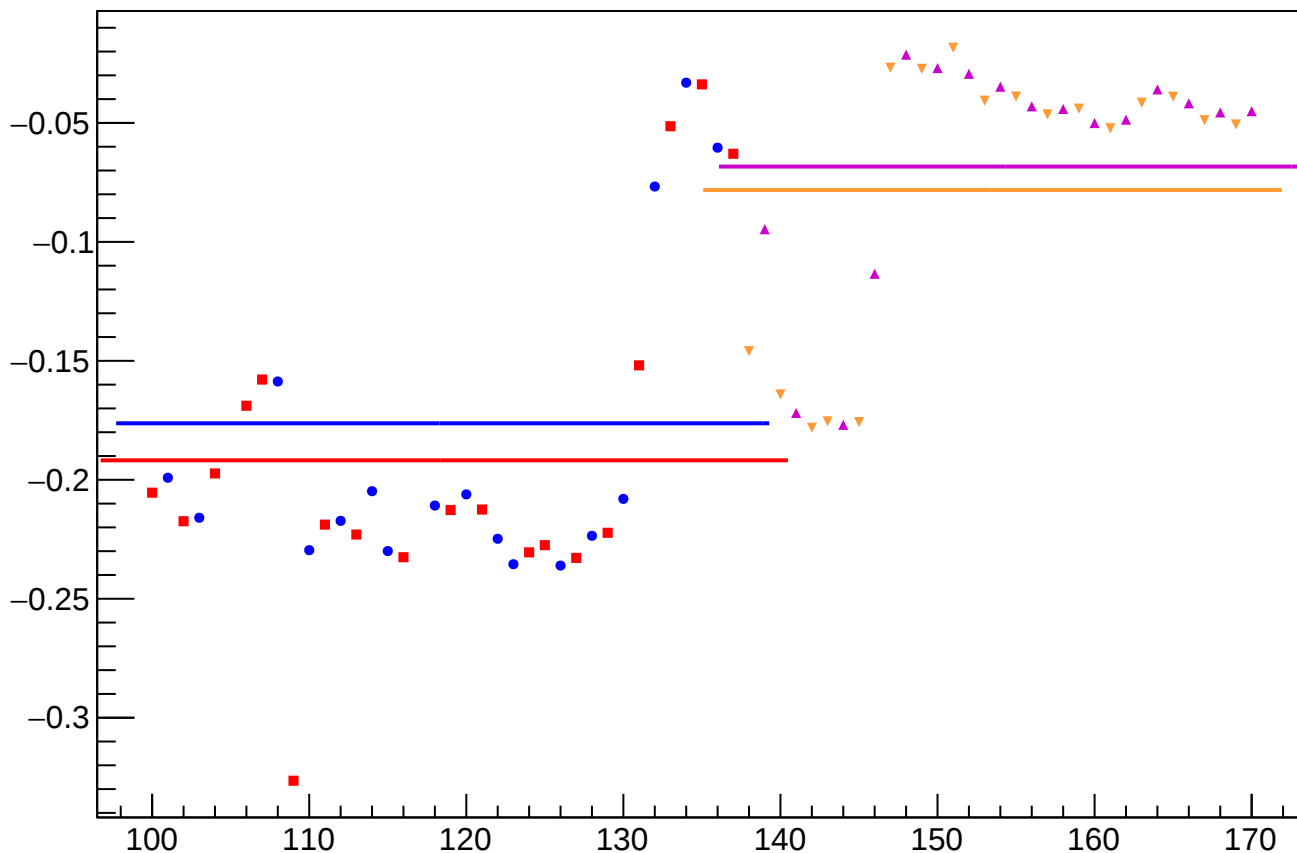
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1946200.9/32

Out: 0.013+/-0.000 χ^2/NDF :2067696.2/35

All: 0.013+/-0.000 χ^2/NDF : 4016476.9/68

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: -0.068+/-0.000 χ^2/NDF : 75467537.5/15

Left: -0.073+/-0.000 χ^2/NDF : 175818898.8/32

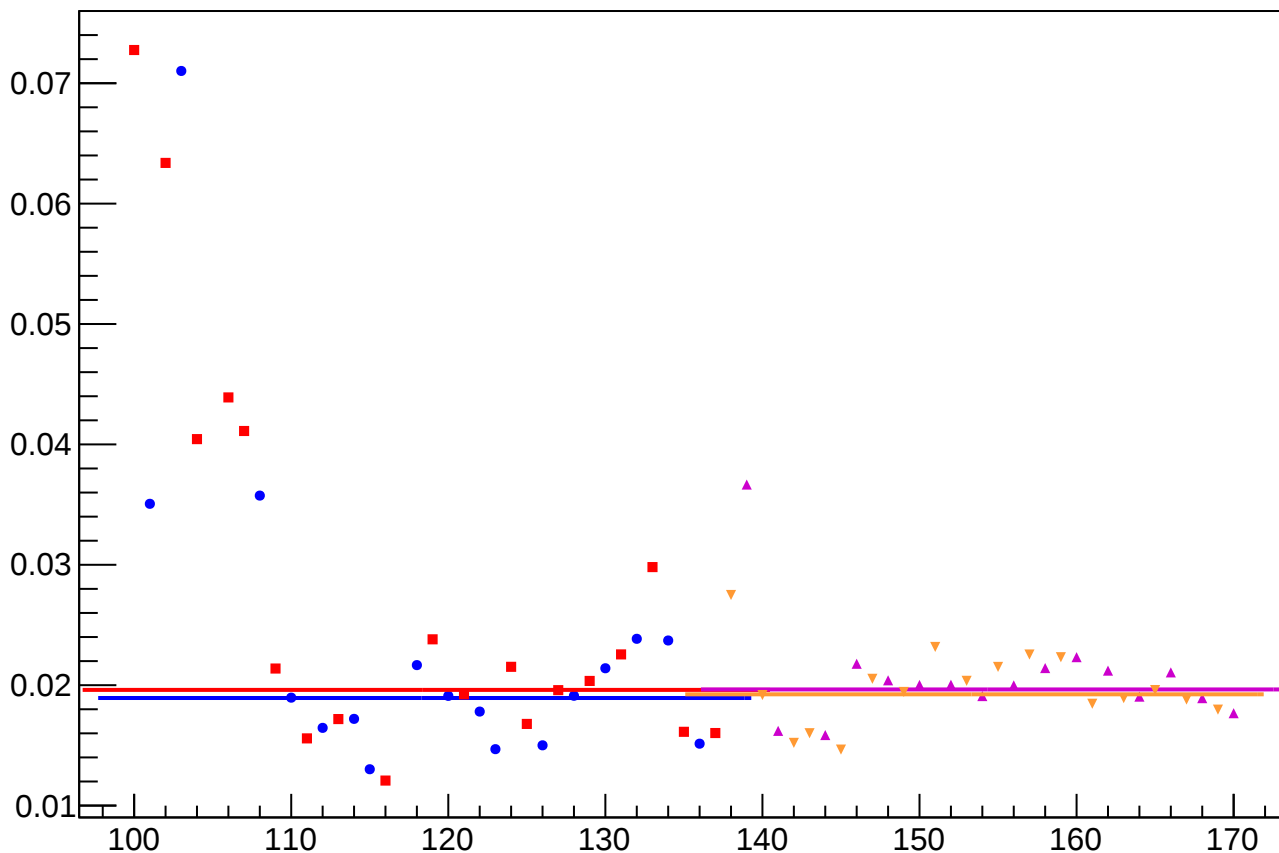
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.106+/-0.000 χ^2/NDF : 251759589.9/32

Out: -0.116+/-0.000 χ^2/NDF : 299844612.7/35

All: -0.111+/-0.000 χ^2/NDF : 553539078.1/68

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 :493887.3/15

Left: 0.019+/-0.000 χ^2/NDF : 923959.1/32

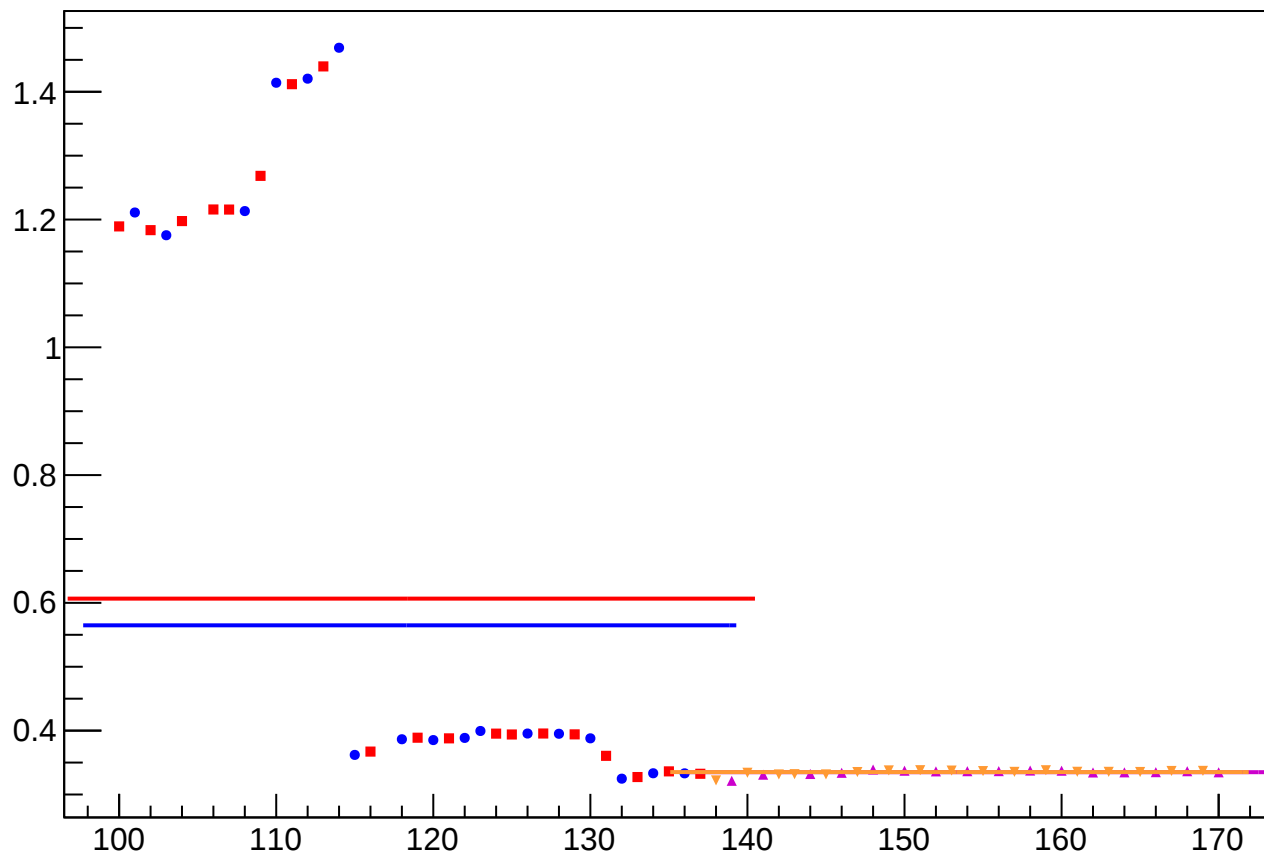
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF :1708977.5/32

Out: 0.019+/-0.000 χ^2/NDF :1885767.9/35

All: 0.019+/-0.000 χ^2/NDF : 3594801.4/68

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 : 1171375.2/15

Left: 0.335+/-0.000 χ^2/NDF : 2296692.5/32

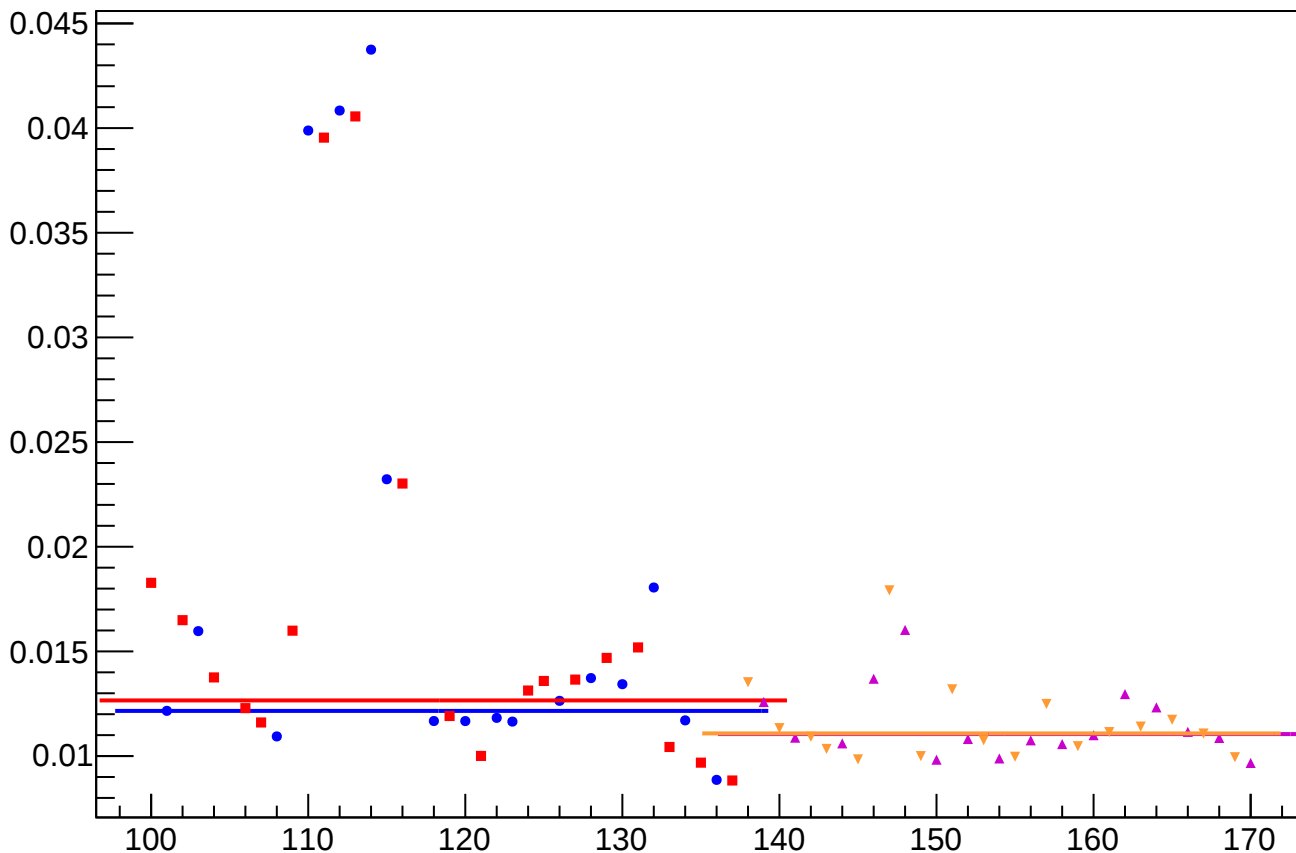
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.400+/-0.000 χ^2/NDF : 6484057046.7/32

Out: 0.409+/-0.000 χ^2/NDF : 7483938663.0/35

All: 0.405+/-0.000 χ^2/NDF : 13973915827.0/66

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:357214.1/15

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 777855.8/32

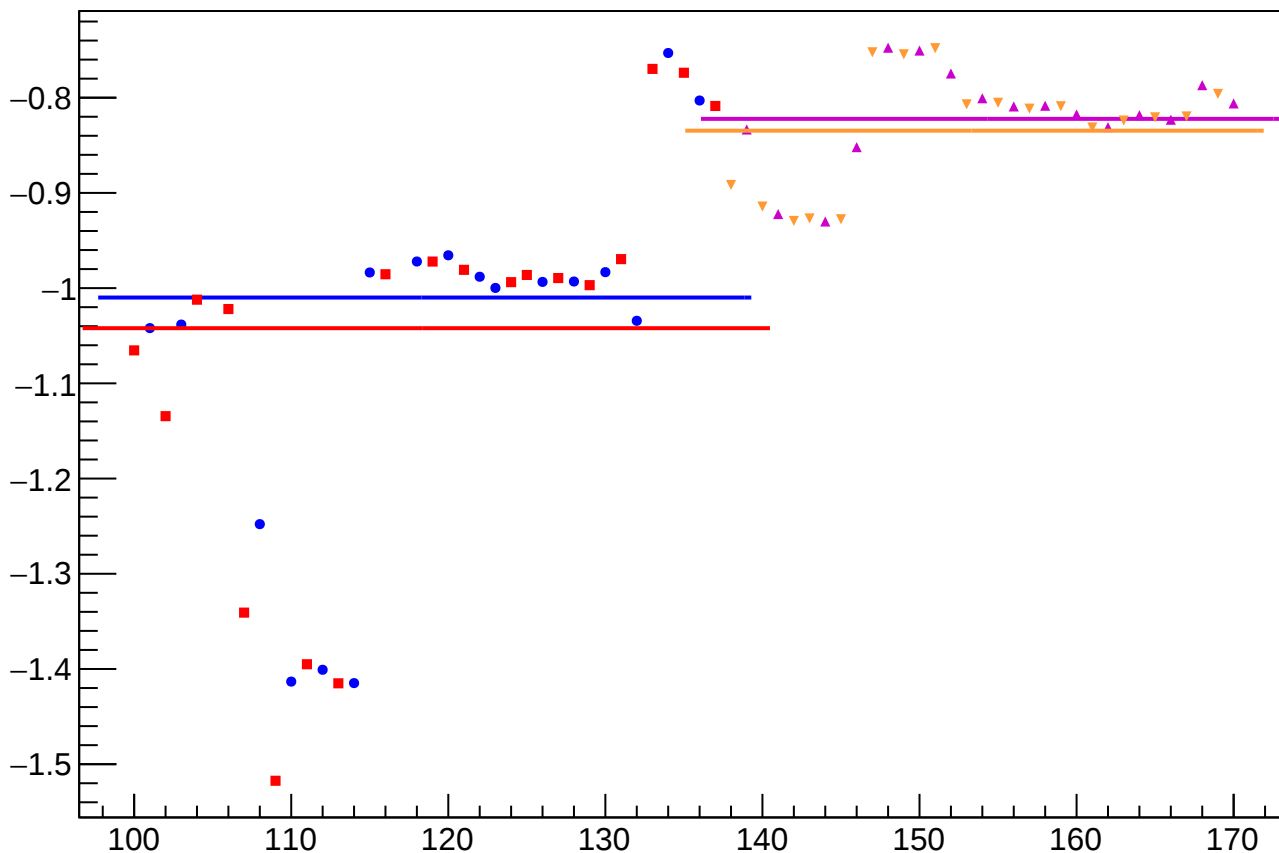
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1734436.3/32

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1823738.0/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3561217.8/68

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: -0.822 ± 0.000 χ^2/NDF : 73585636.3/15

Left: -0.829 ± 0.000 χ^2/NDF : 172134079.3/32

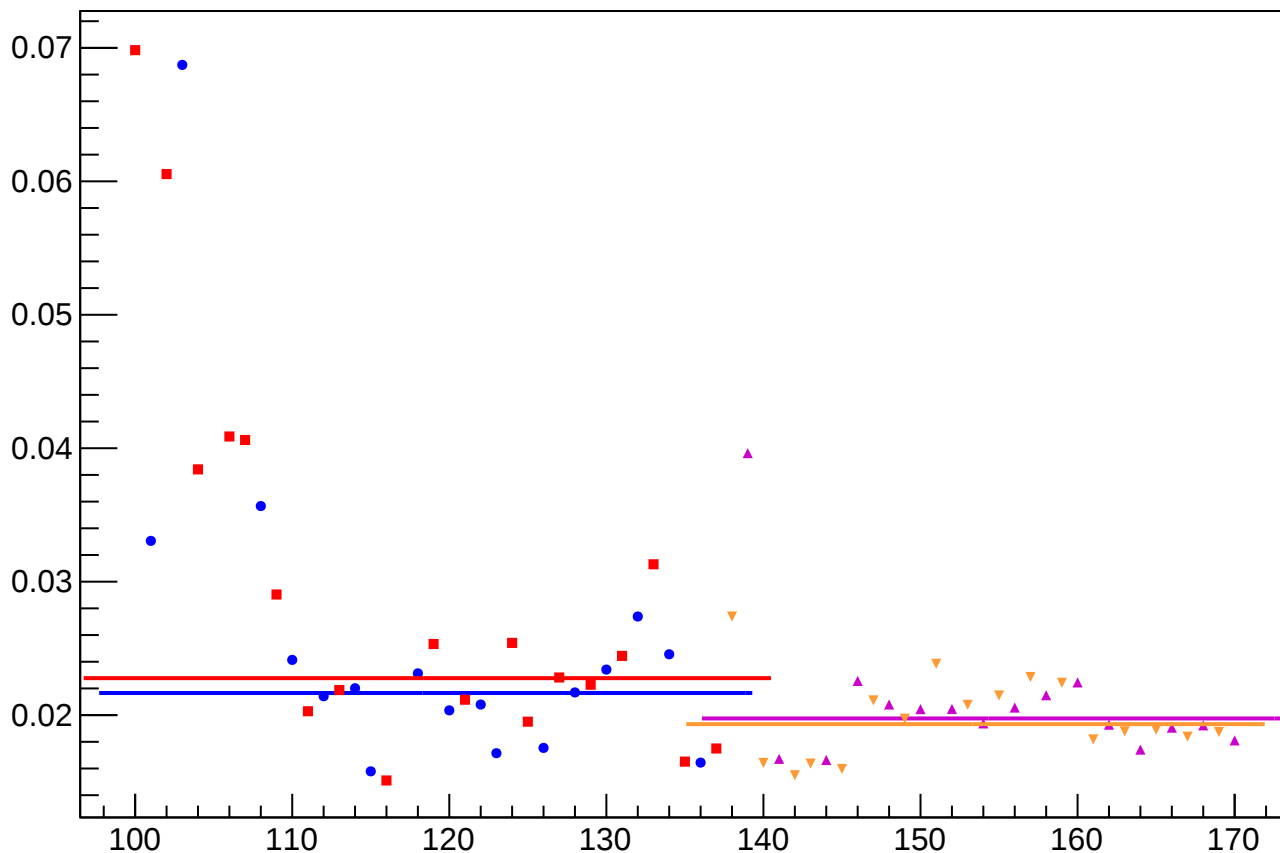
Right: -1.026 ± 0.000 χ^2/NDF : 923225272.3/35

In: -0.878 ± 0.000 χ^2/NDF : 730087283.5/32

Out: -0.892 ± 0.000 χ^2/NDF : 946524950.7/35

All: -0.885 ± 0.000 χ^2/NDF : 1680135844.9/6

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 : 511340.7/15

Left: 0.020+/-0.000 χ^2/NDF : 912733.9/32

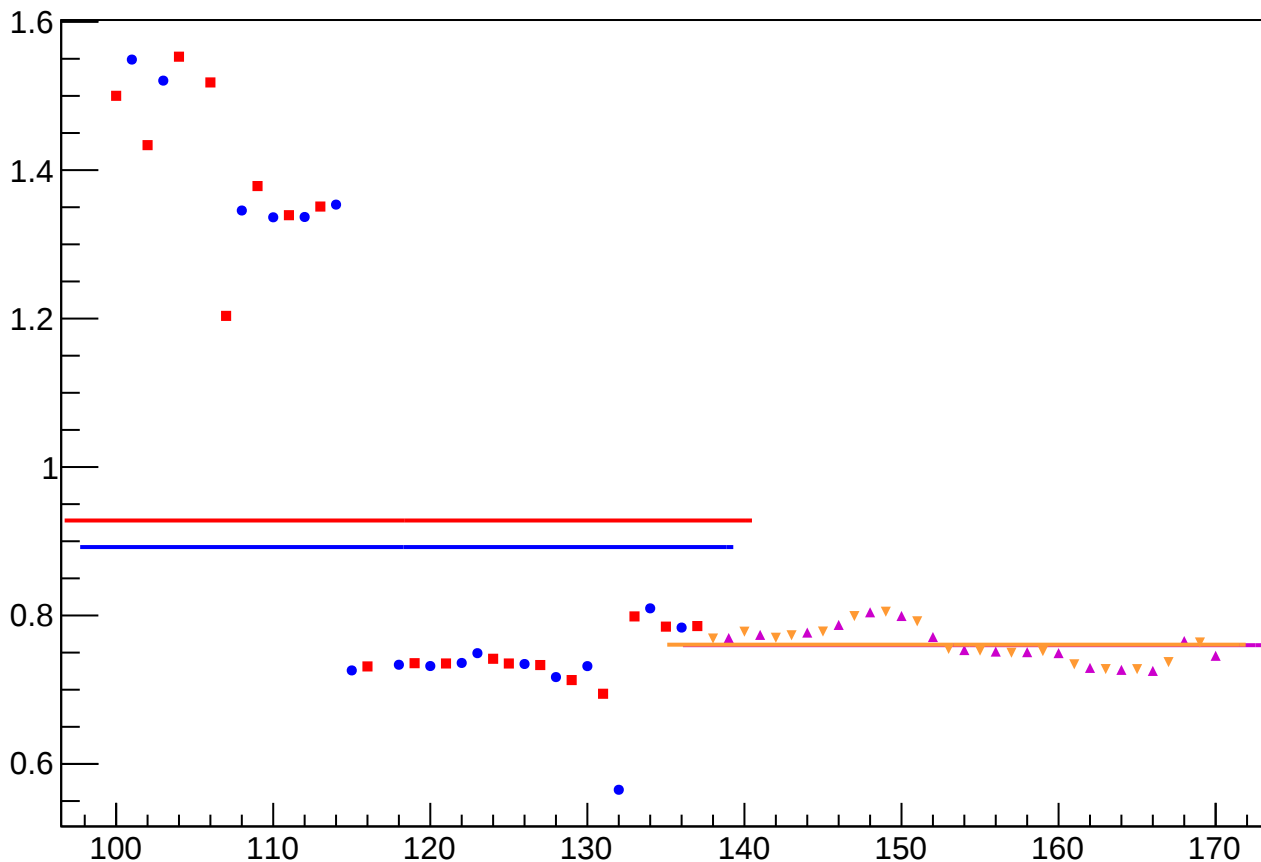
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1550428.4/32

Out: 0.020+/-0.000 χ^2/NDF : 1725872.1/35

All: 0.020+/-0.000 χ^2/NDF : 3276370.2/68

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: 0.760 $\pm$ 0.000 χ^2/NDF :33914655.5/15

Left: 0.760 $\pm$ 0.000 χ^2/NDF : 70014198.3/32

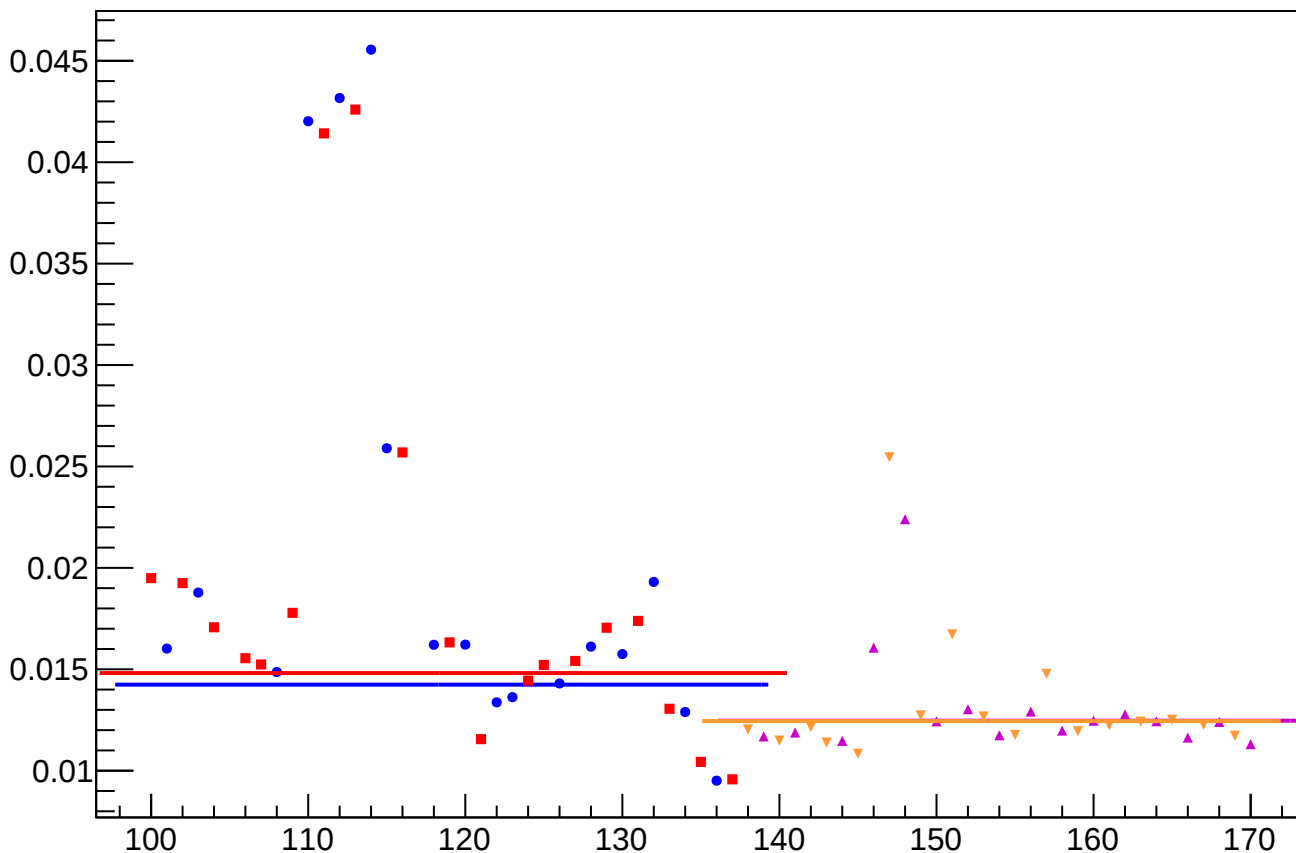
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.795 $\pm$ 0.000 χ^2/NDF :2804619065.1/32

Out: 0.804 $\pm$ 0.000 χ^2/NDF :3038360508.9/35

All: 0.800 $\pm$ 0.000 χ^2/NDF : 5847311718.6/68

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: 0.012+/-0.000 χ^2/NDF : 431024.1/15

Left: 0.012+/-0.000 χ^2/NDF : 1021997.6/32

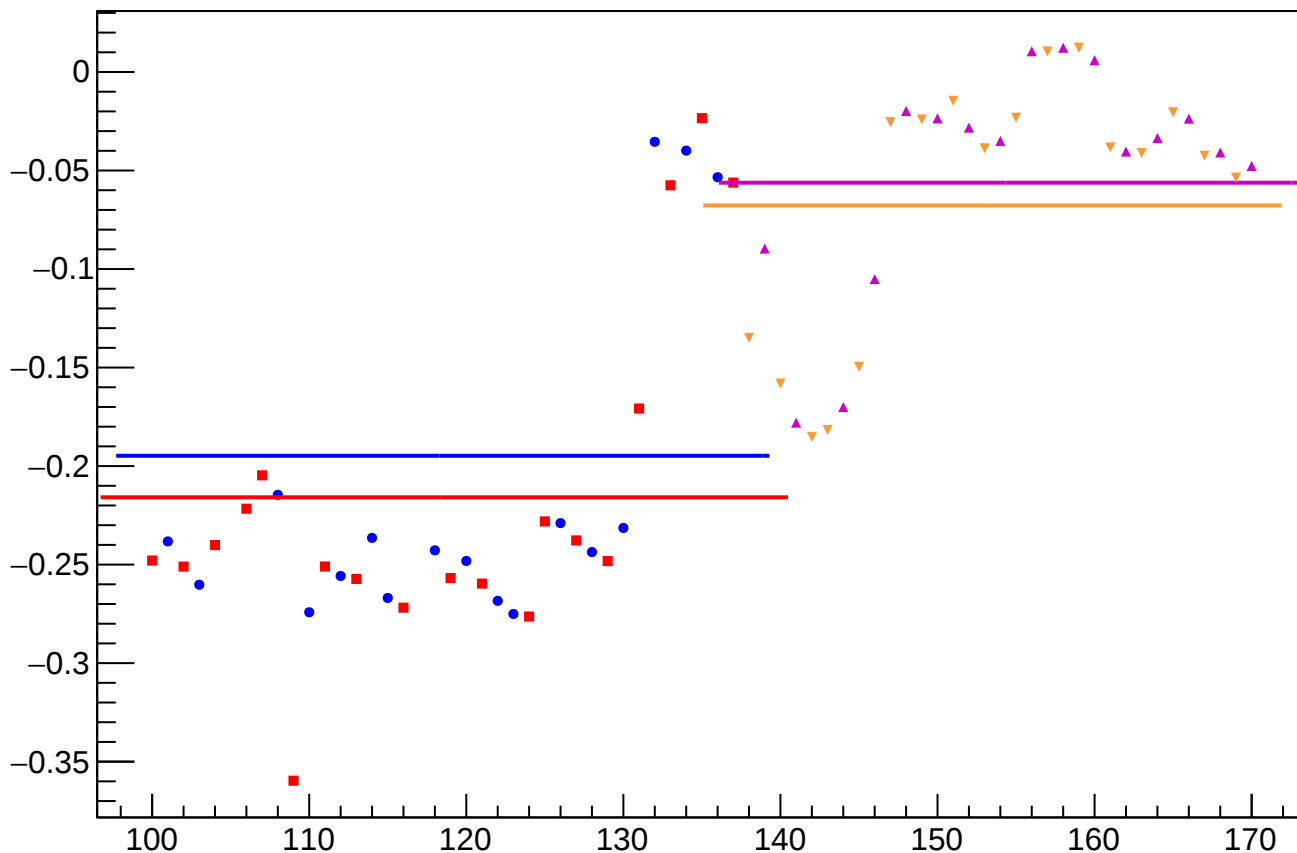
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF : 1975755.9/32

Out: 0.013+/-0.000 χ^2/NDF : 2091444.3/35

All: 0.013+/-0.000 χ^2/NDF : 4068816.3/68

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: -0.056+/-0.000 χ^2/NDF : 97397026.3/15

Left: -0.062+/-0.000 χ^2/NDF : 214045152.1/32

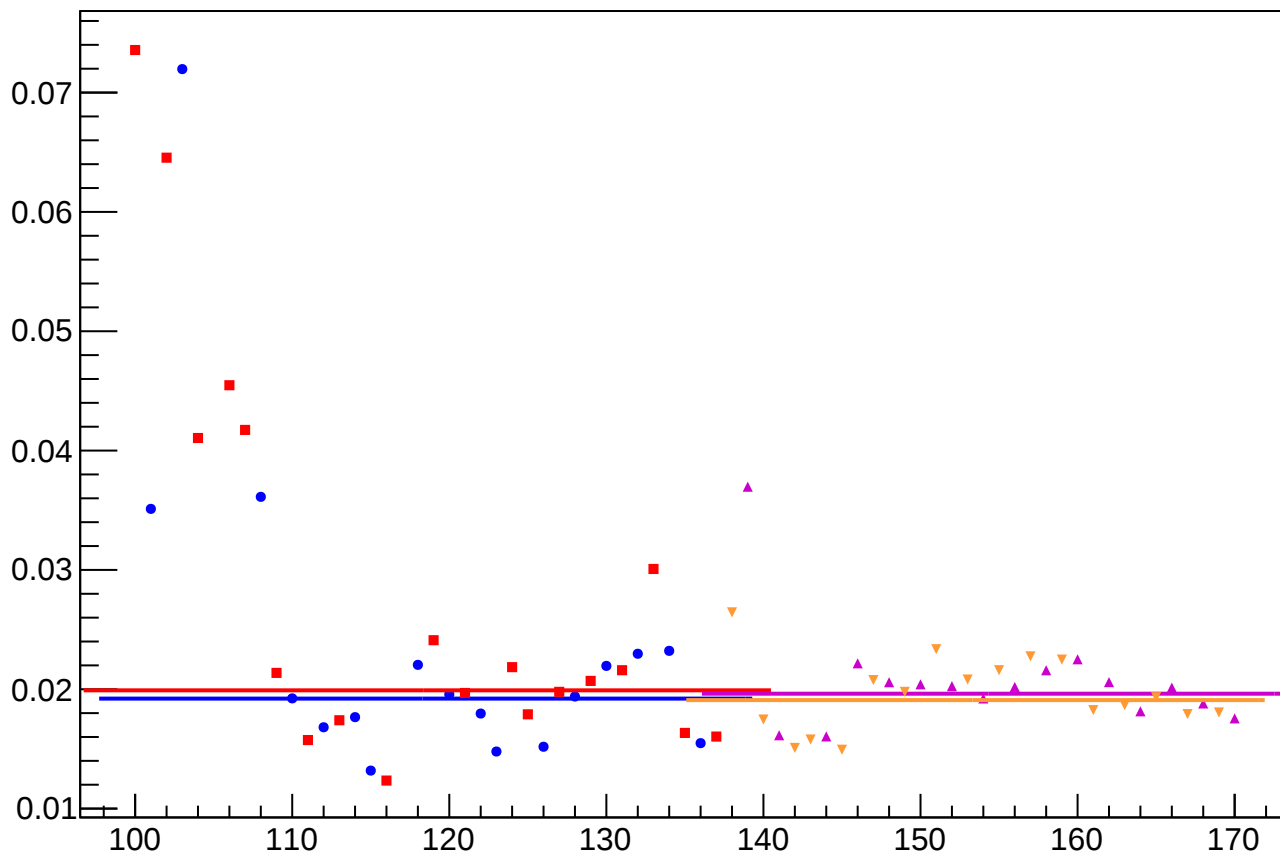
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.104+/-0.000 χ^2/NDF : 377686766.1/32

Out: -0.115+/-0.000 χ^2/NDF : 421989979.5/35

All: -0.109+/-0.000 χ^2/NDF : 802354352.4/68

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 :504910.3/15

Left: 0.019+/-0.000 χ^2/NDF : 944383.4/32

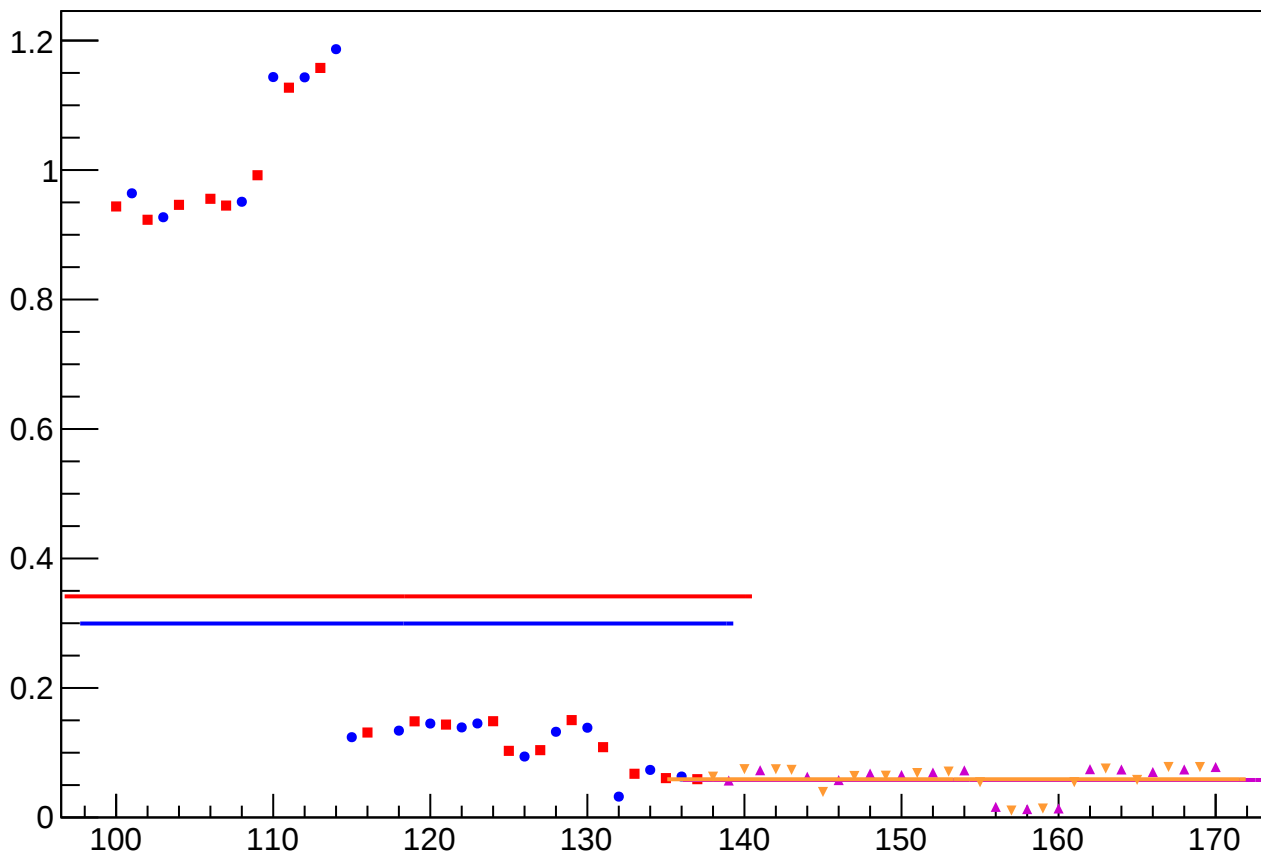
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF :1685017.9/32

Out: 0.019+/-0.000 χ^2/NDF :1890581.4/35

All: 0.019+/-0.000 χ^2/NDF : 3576332.8/68

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300 $\pm$ 0.000 χ^2 /NDF: 5165052137.6/16

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 43391245.8/16

Right Out: 0.341 $\pm$ 0.000 χ^2 /NDF: 5450600455.1/18

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF: 54810494.8/15

Left: 0.058 $\pm$ 0.000 χ^2 /NDF: 98264150.4/32

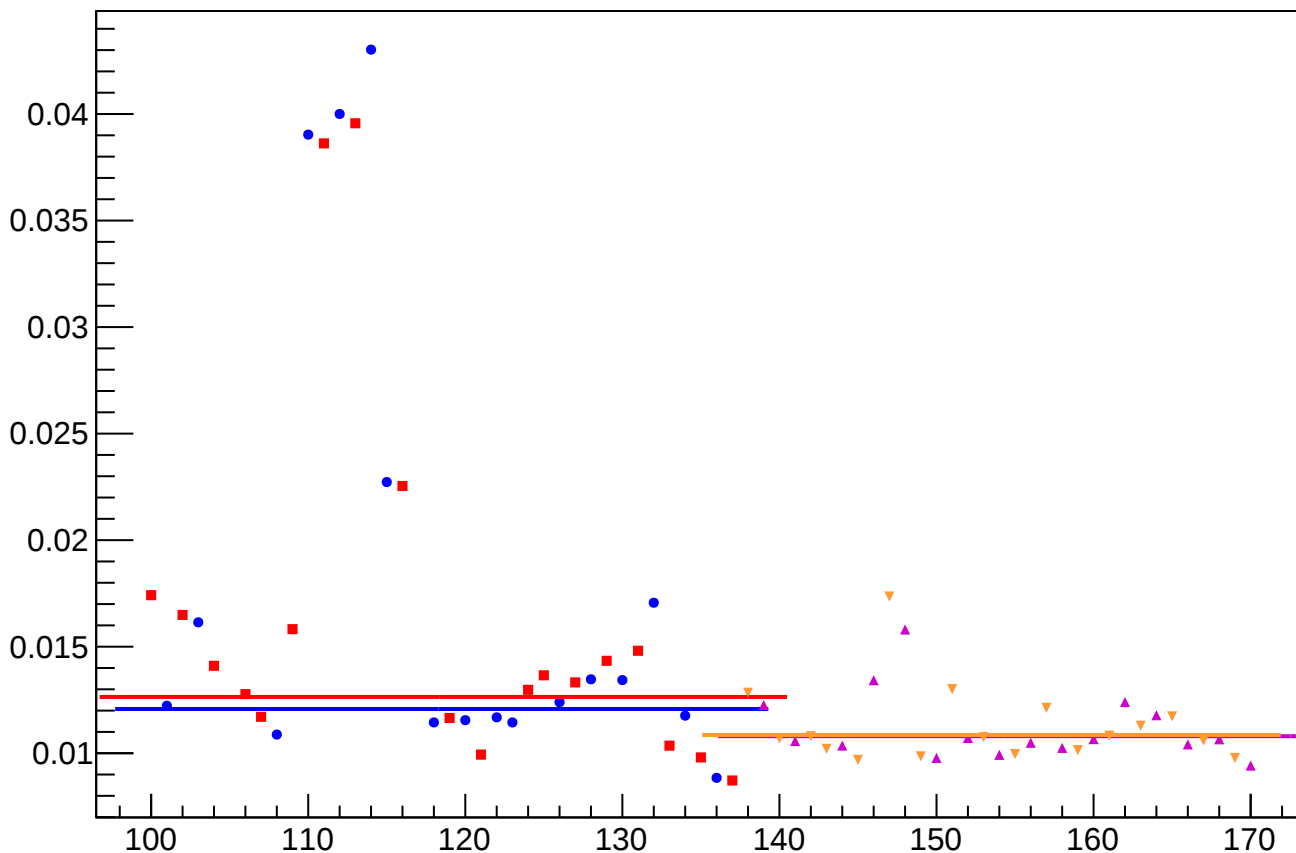
Right: 0.320 $\pm$ 0.000 χ^2 /NDF: 10648917928.5/35

In: 0.125 $\pm$ 0.000 χ^2 /NDF: 6862024418.3/32

Out: 0.134 $\pm$ 0.000 χ^2 /NDF: 7654761179.3/35

All: 0.129 $\pm$ 0.000 χ^2 /NDF: 14522728094.7/68

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: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:339180.2/15

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 731606.7/32

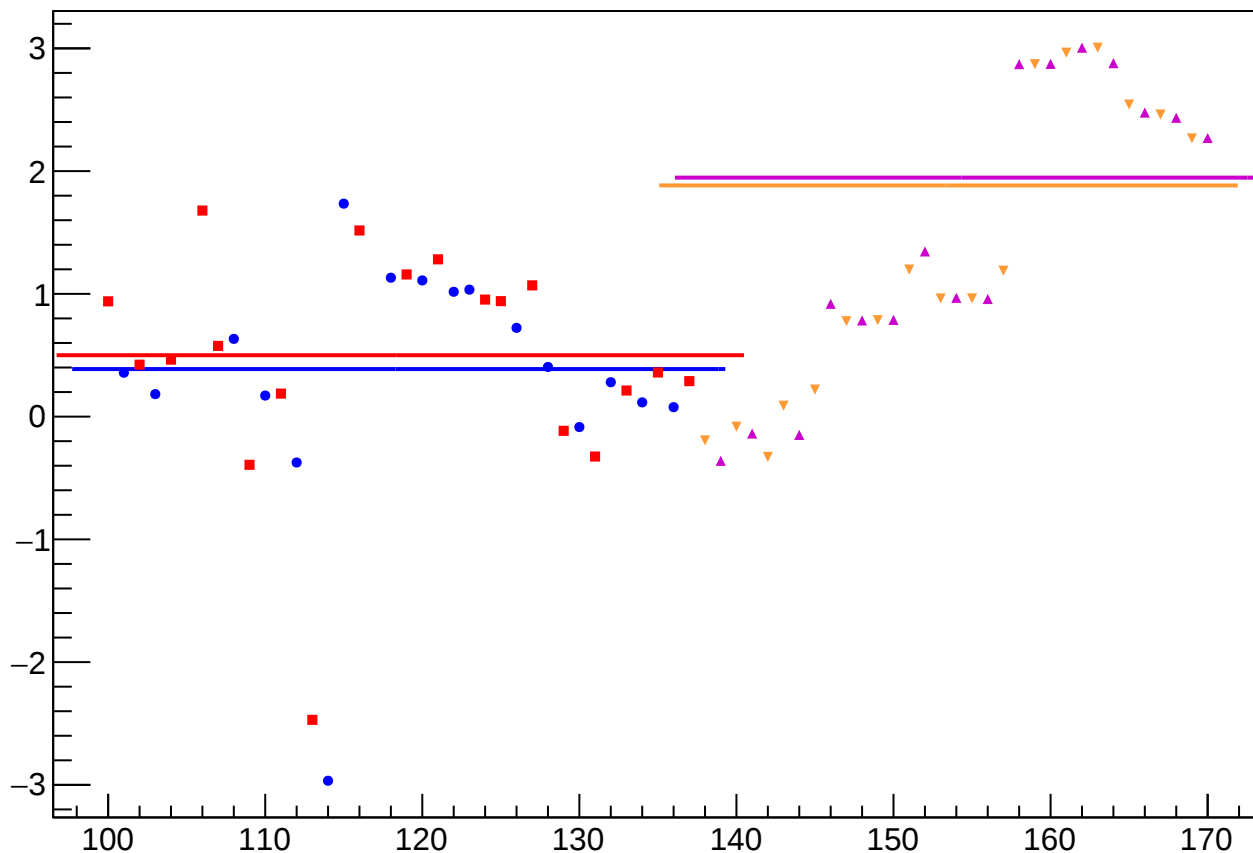
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1712883.7/32

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1802264.3/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3519591.4/68

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2 /NDF: 247912593.5/16

Left Out: 1.883 $\pm$ 0.000 χ^2 /NDF: 26442569669.5/16

Right Out: 0.500 $\pm$ 0.000 χ^2 /NDF: 983360928.1/18

Left In: 1.947 $\pm$ 0.000 χ^2 /NDF: 28097187111.8/15

Left: 1.917 $\pm$ 0.000 χ^2 /NDF: 54604923141.2/32

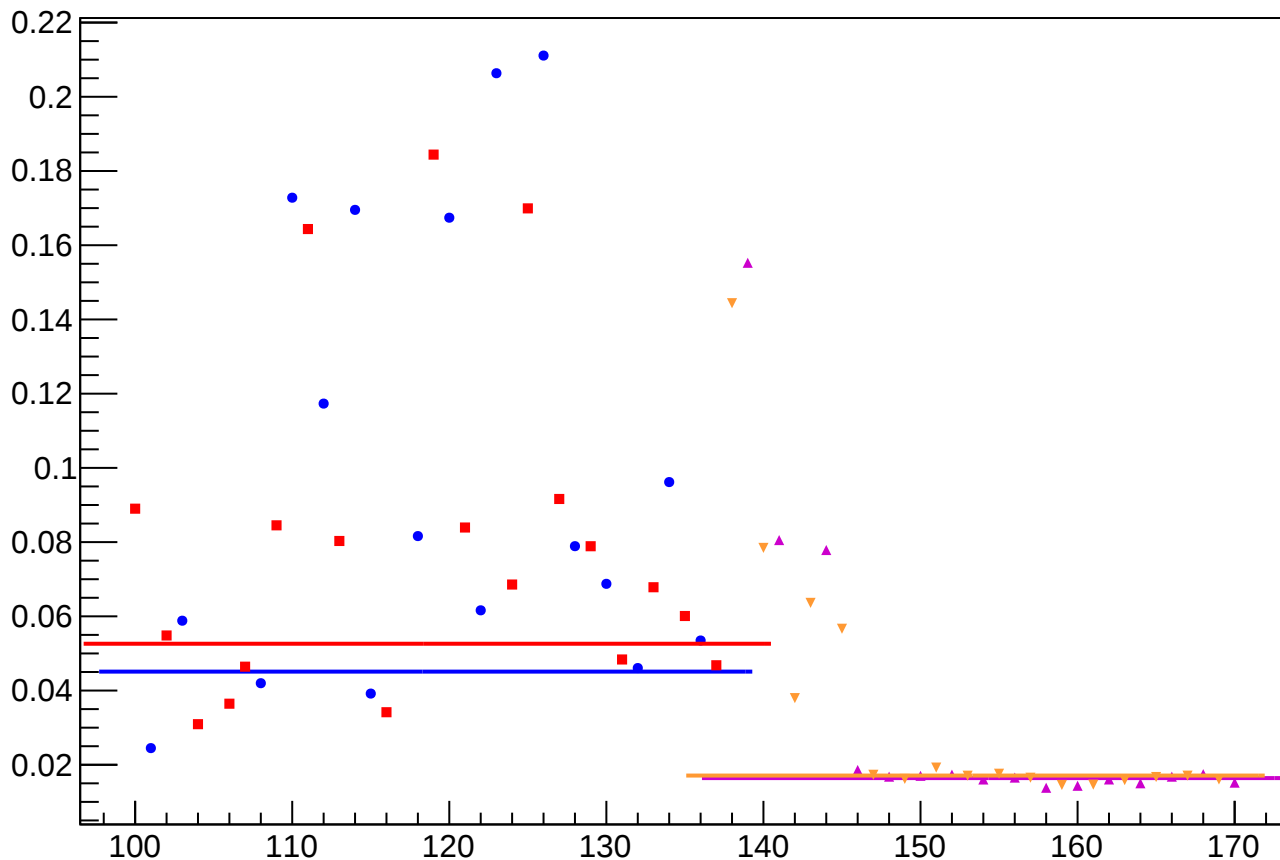
Right: 0.439 $\pm$ 0.000 χ^2 /NDF: 1241544973.3/35

In: 1.871 $\pm$ 0.000 χ^2 /NDF: 32390425724.4/32

Out: 1.820 $\pm$ 0.000 χ^2 /NDF: 30149964106.2/35

All: 1.846 $\pm$ 0.000 χ^2 /NDF: 62584547479.3/66

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: 0.016+/-0.000 χ^2/NDF : 2350037.4/15

Left: 0.017+/-0.000 χ^2/NDF : 5101352.9/32

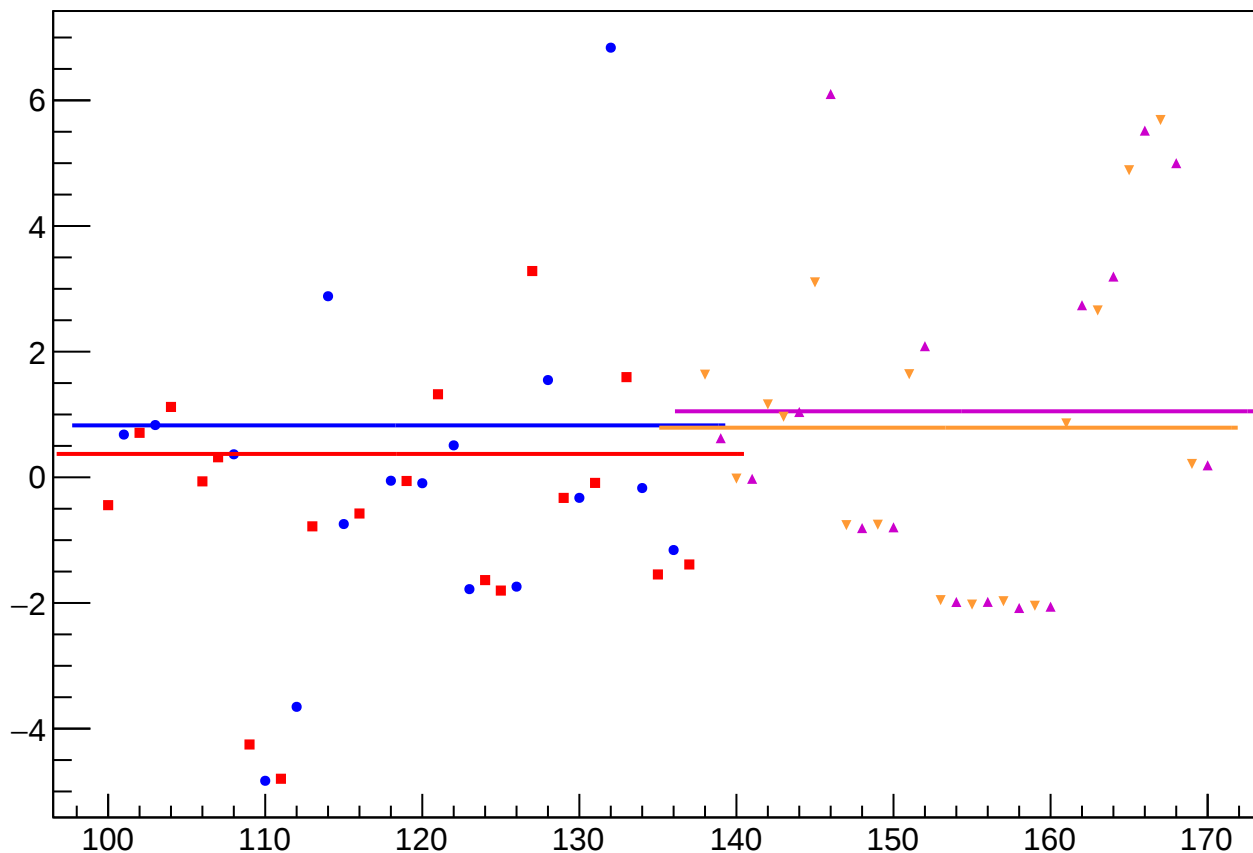
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7935034.9/32

Out: 0.019+/-0.000 χ^2/NDF : 8519801.4/35

All: 0.018+/-0.000 χ^2/NDF : 16483470.8/68

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.926+/-0.000 χ^2/NDF : 843876402977.1/32

Right: 0.613+/-0.000 χ^2/NDF : 16291516809.6/35

Left Out: 0.790+/-0.000

χ^2/NDF : 363188765618.4/16

In: 1.036+/-0.000 χ^2/NDF : 490028969119.2/32

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

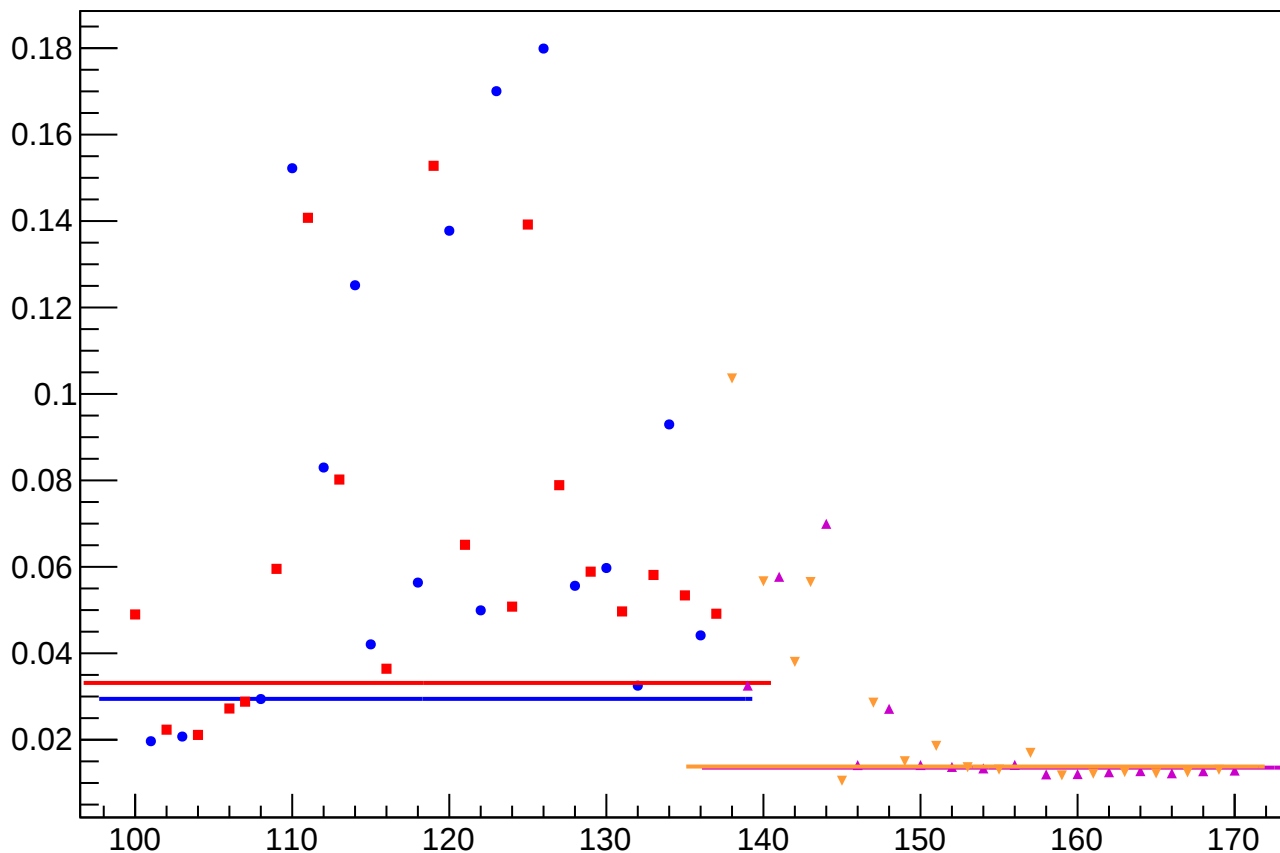
Out: 0.763+/-0.000 χ^2/NDF : 368732196240.6/35

Left In: 1.051+/-0.000

χ^2/NDF : 478907861431.4/15

All: 0.905+/-0.000 χ^2/NDF : 860847634131.2

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 :1874537.1/15

Left: 0.014+/-0.000 χ^2/NDF : 4720017.2/32

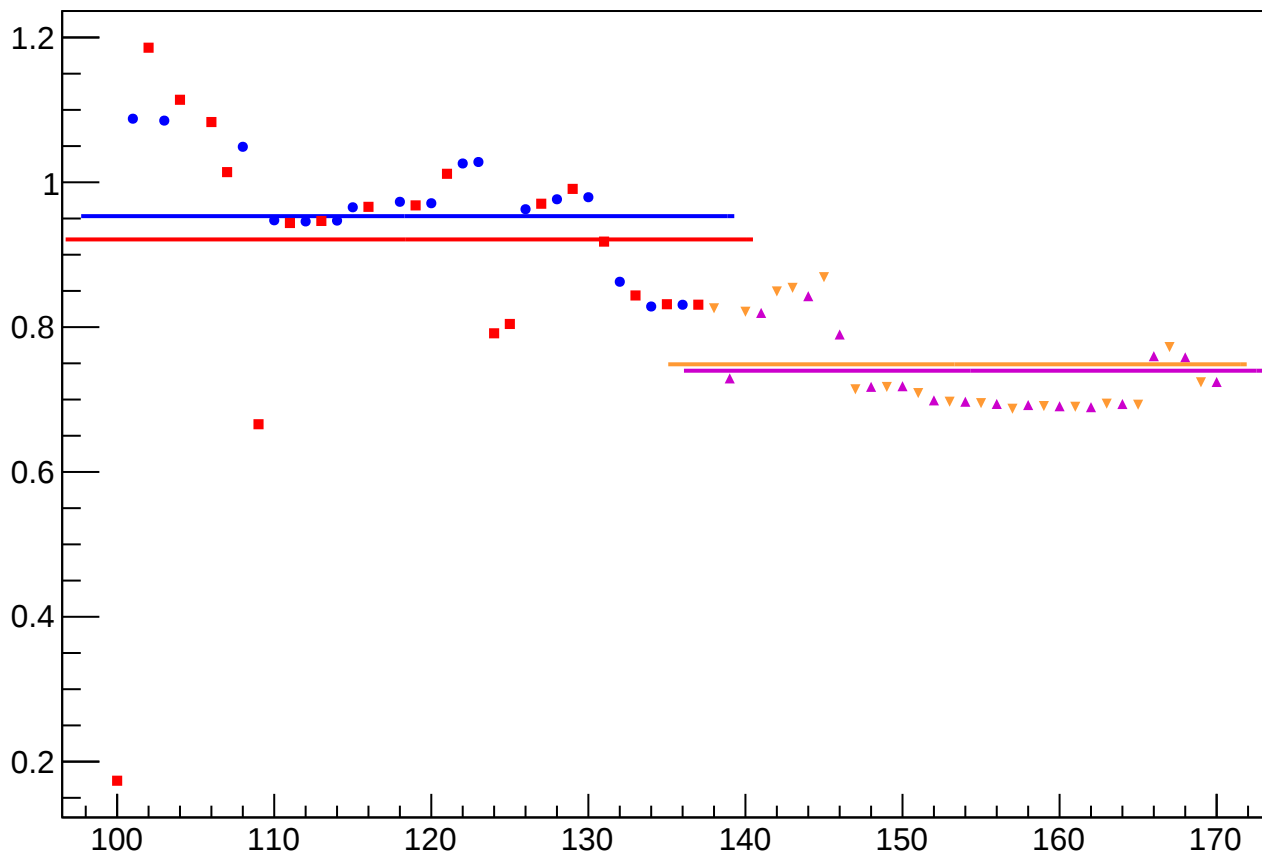
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6785866.0/32

Out: 0.015+/-0.000 χ^2/NDF :8386333.7/35

All: 0.015+/-0.000 χ^2/NDF : 15183078.2/68

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: 0.740+/-0.000 χ^2/NDF :157708395.9/15

Left: 0.744+/-0.000 χ^2/NDF : 422181168.6/32

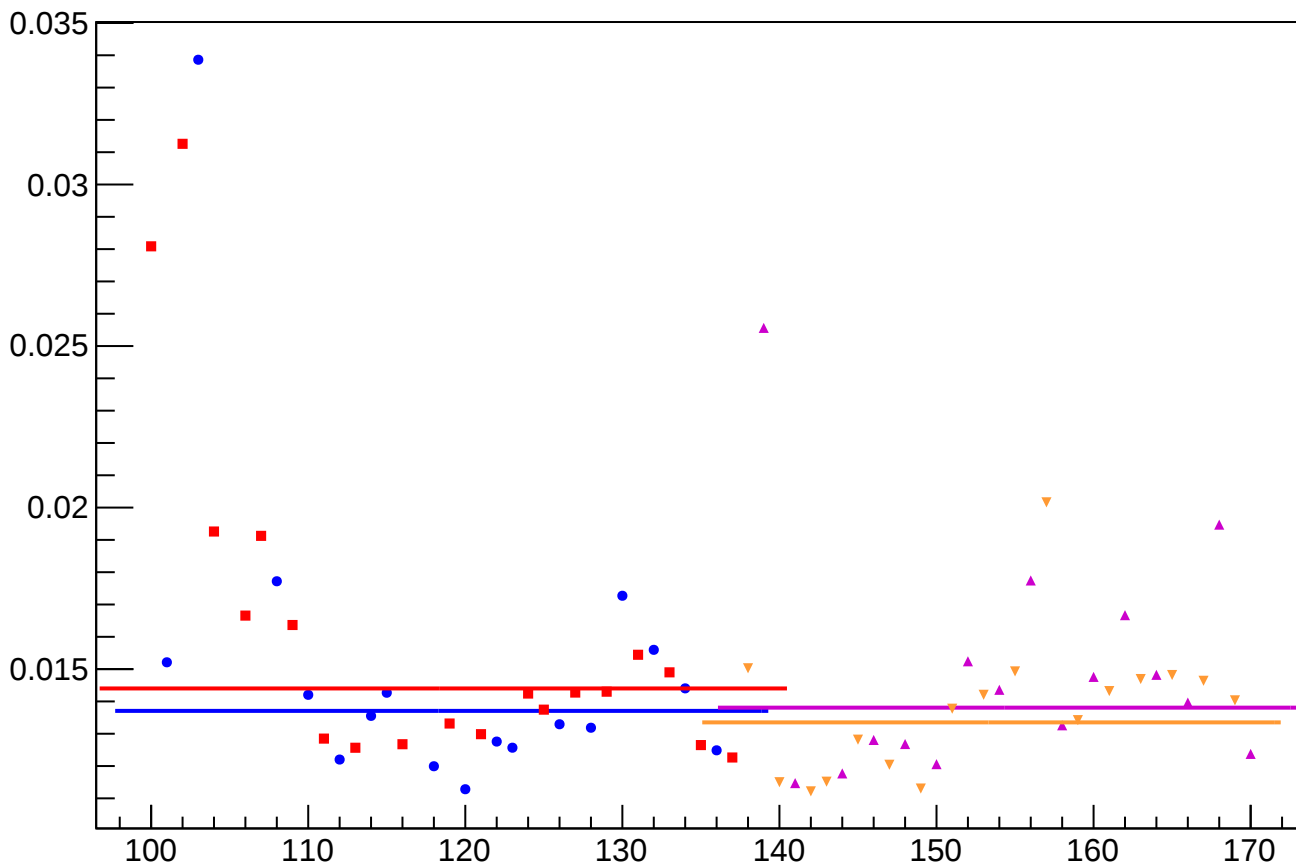
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.814+/-0.000 χ^2/NDF :1250135219.9/32

Out: 0.804+/-0.000 χ^2/NDF :1227021013.8/35

All: 0.809+/-0.000 χ^2/NDF : 2481716313.3/68

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013 $\pm$ 0.000 χ^2/NDF : 369989.9/16

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 501768.8/18

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 724378.2/15

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1106727.2/32

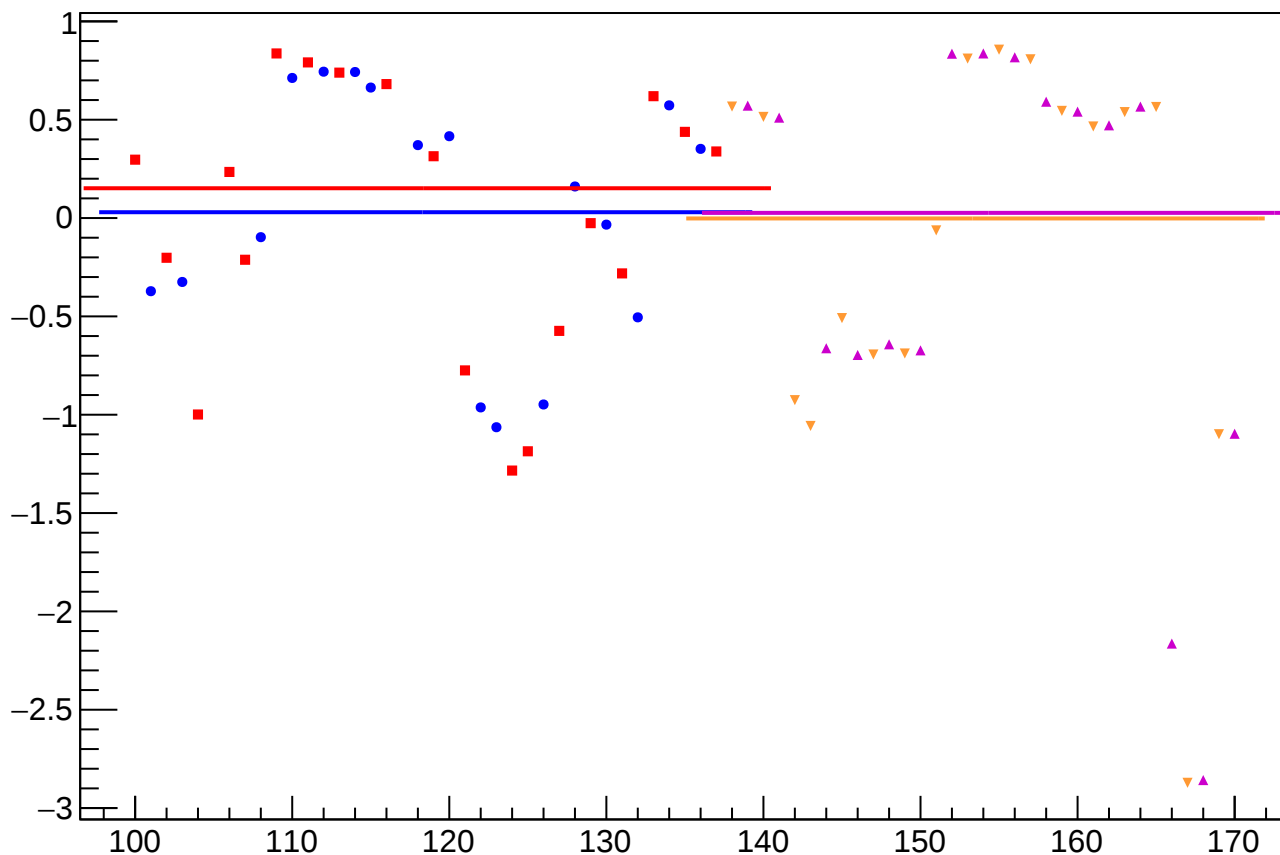
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 1062610.4/35

In: 0.014 $\pm$ 0.000 χ^2/NDF : 1271098.0/32

Out: 0.014 $\pm$ 0.000 χ^2/NDF : 915588.8/35

All: 0.014 $\pm$ 0.000 χ^2/NDF : 2187283.0/68

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: 0.026+/-0.000 χ^2/NDF : 77712644839.7/15

Left: 0.012+/-0.000 χ^2/NDF : 145426246802.6/32

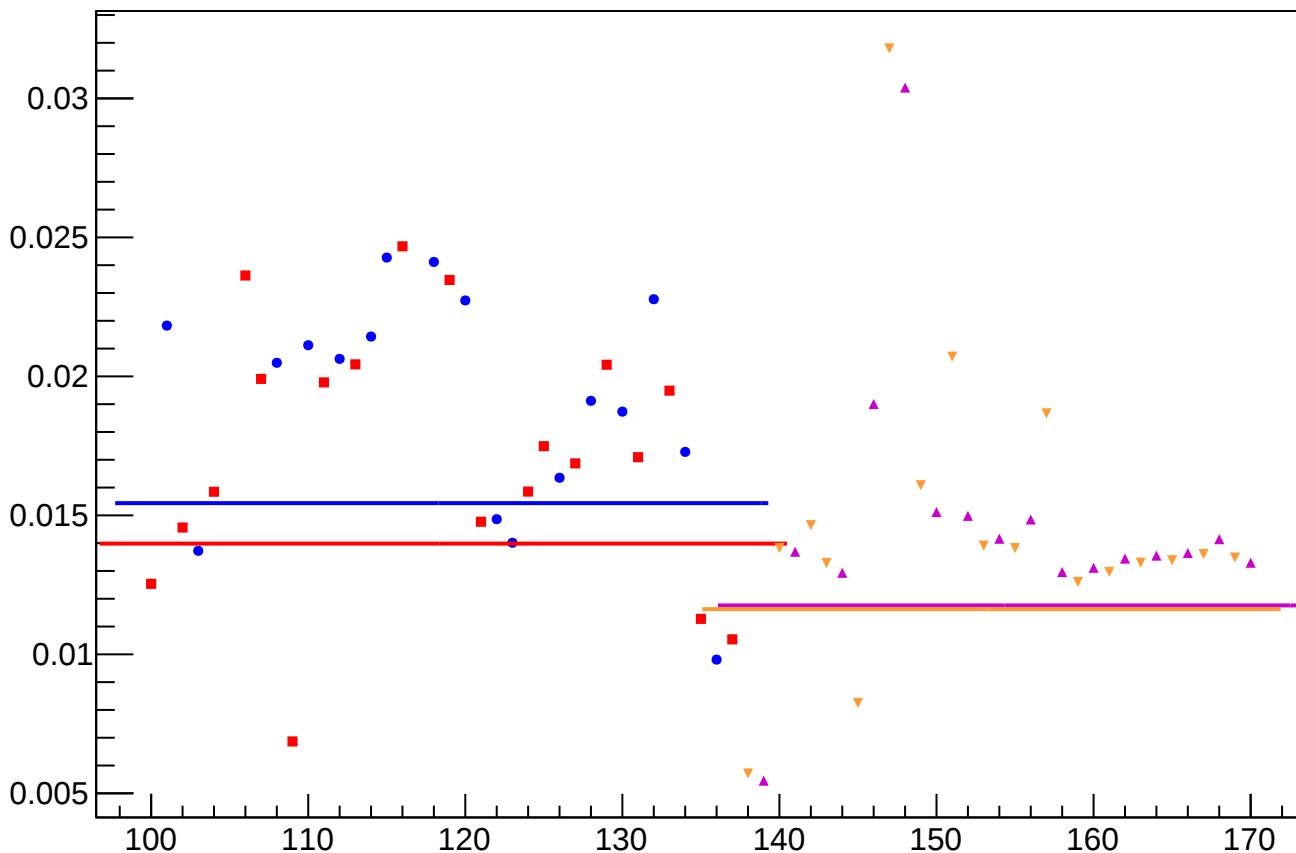
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.027+/-0.000 χ^2/NDF : 84007665741.3/32

Out: 0.039+/-0.000 χ^2/NDF : 80837431541.6/35

All: 0.033+/-0.000 χ^2/NDF : 164852834442.8

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 : 2938870.1/15

Left: 0.012+/-0.000 χ^2/NDF : 5910801.3/32

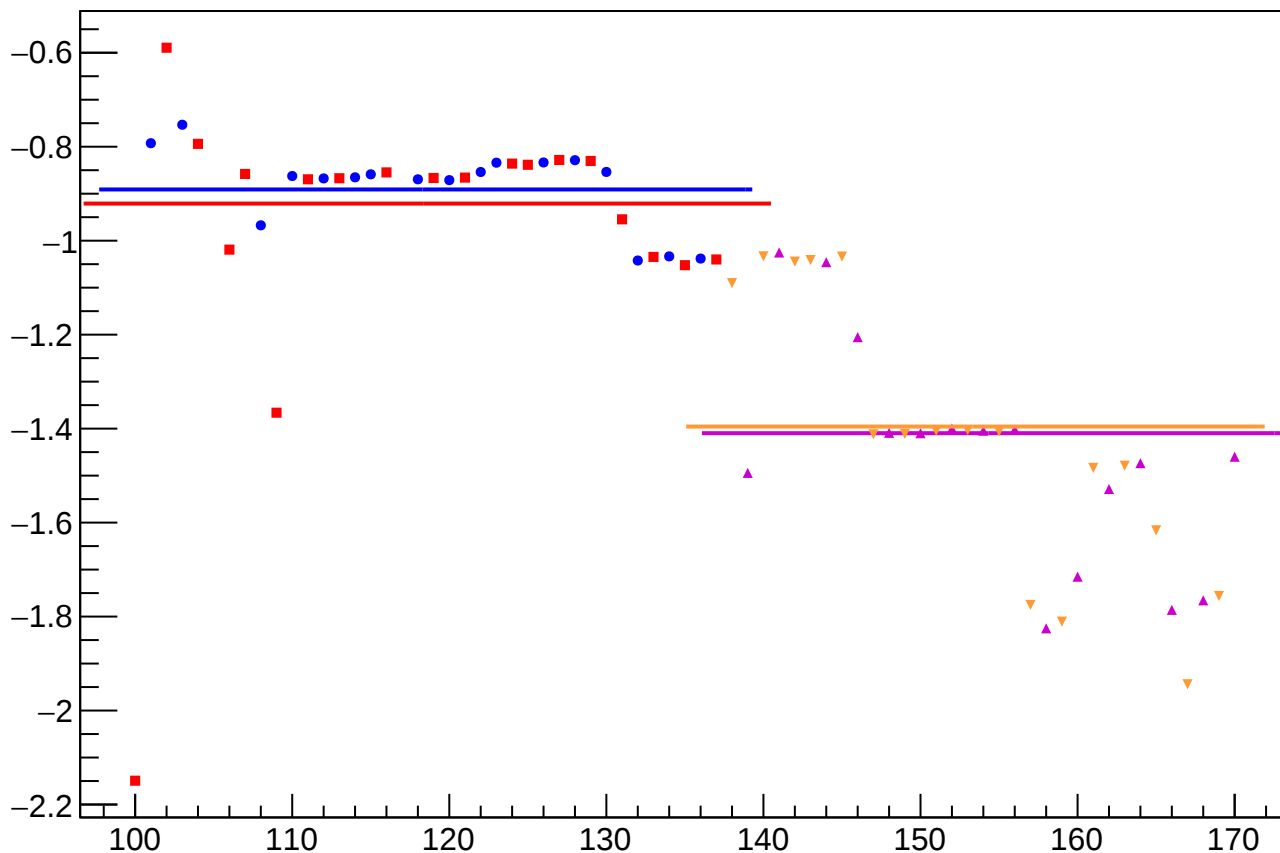
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4590099.5/32

Out: 0.012+/-0.000 χ^2/NDF : 4763797.6/35

All: 0.012+/-0.000 χ^2/NDF : 9368319.5/68

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.396 ± 0.000 $\chi^2/\text{NDF}: 715166178.6/16$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.410 ± 0.000 $\chi^2/\text{NDF}: 511069871.0/15$

Left: -1.402 ± 0.000 $\chi^2/\text{NDF}: 1227122453.0/32$

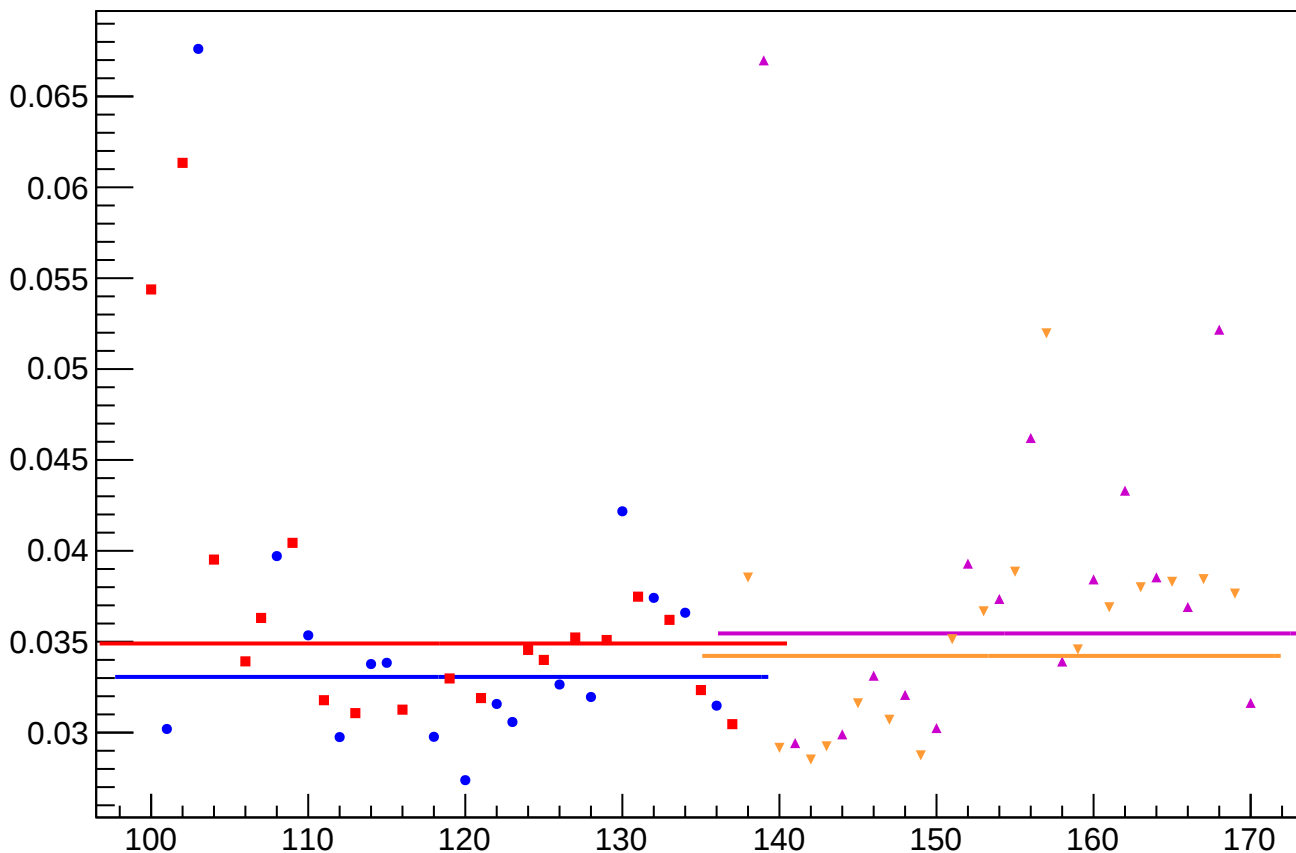
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.211 ± 0.000 $\chi^2/\text{NDF}: 1441234821.8/32$

Out: -1.228 ± 0.000 $\chi^2/\text{NDF}: 1582547019.1/35$

All: -1.219 ± 0.000 $\chi^2/\text{NDF}: 3025916013.4/6$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2/NDF : 409286.7/16

Left Out: 0.034 $\pm$ 0.000 χ^2/NDF : 418954.8/16

Right Out: 0.035 $\pm$ 0.000 χ^2/NDF : 274270.8/18

Left In: 0.035 $\pm$ 0.000 χ^2/NDF : 808740.5/15

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1241341.6/32

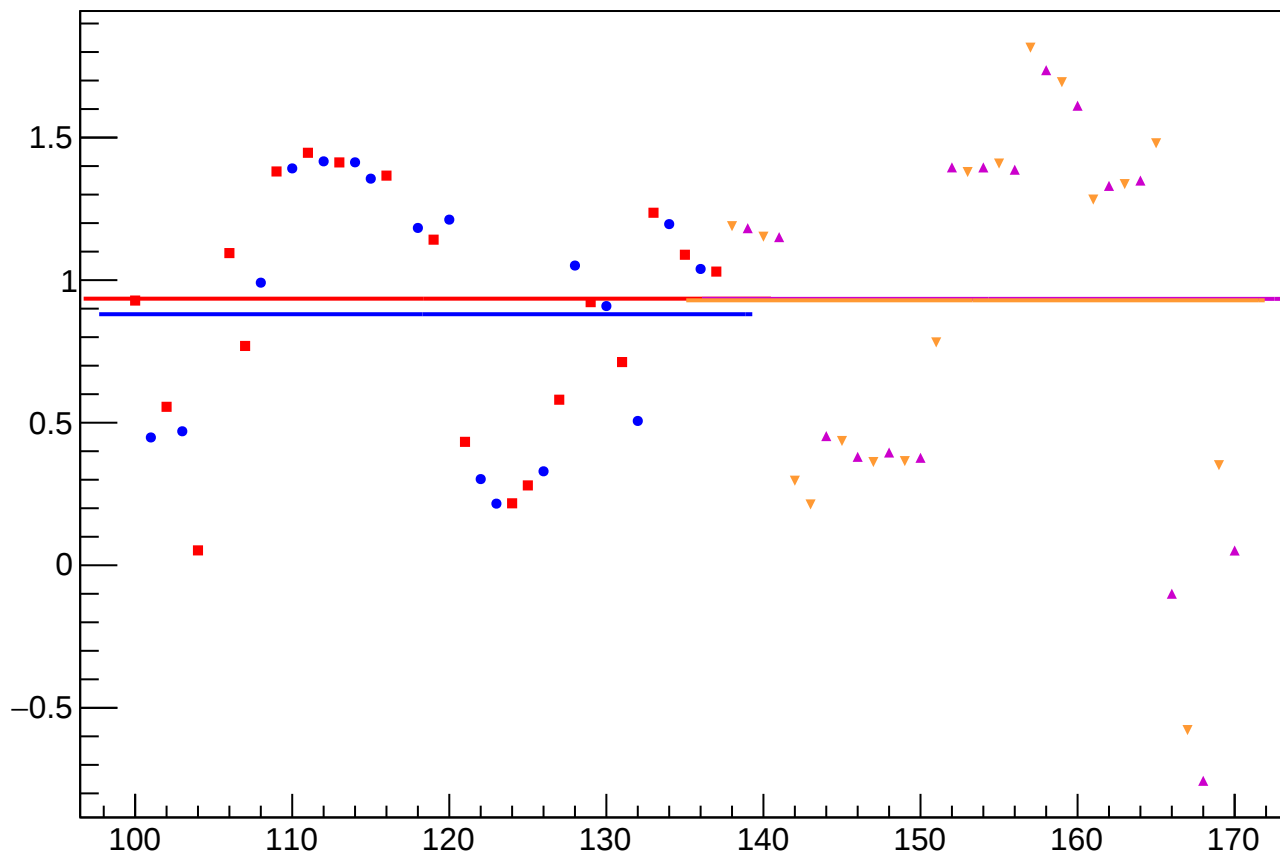
Right: 0.034 $\pm$ 0.000 χ^2/NDF : 701180.7/35

In: 0.035 $\pm$ 0.000 χ^2/NDF : 1255938.7/32

Out: 0.034 $\pm$ 0.000 χ^2/NDF : 696273.2/35

All: 0.034 $\pm$ 0.000 χ^2/NDF : 1952295.2/68

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: 0.934 $\pm$ 0.000 χ^2/NDF : 65037036554.1/15

Left: 0.932 $\pm$ 0.000 χ^2/NDF : 121428951559.4/32

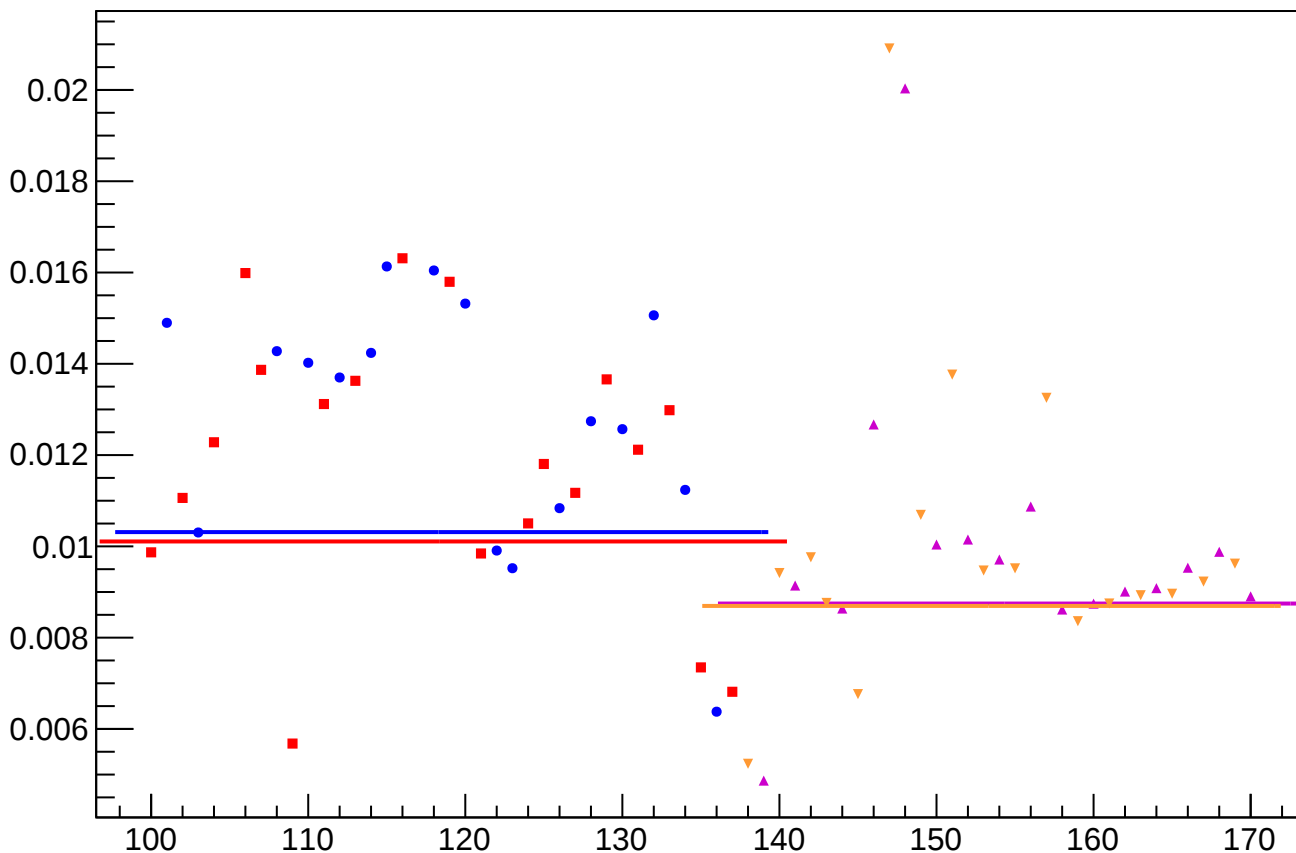
Right: 0.909 $\pm$ 0.000 χ^2/NDF : 16315238009.2/35

In: 0.920 $\pm$ 0.000 χ^2/NDF : 71549299100.1/32

Out: 0.931 $\pm$ 0.000 χ^2/NDF : 66224932814.7/35

All: 0.926 $\pm$ 0.000 χ^2/NDF : 137786123177.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF :1678642.0/16

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1592384.6/15

Left: 0.009+/-0.000 χ^2/NDF : 3271425.8/32

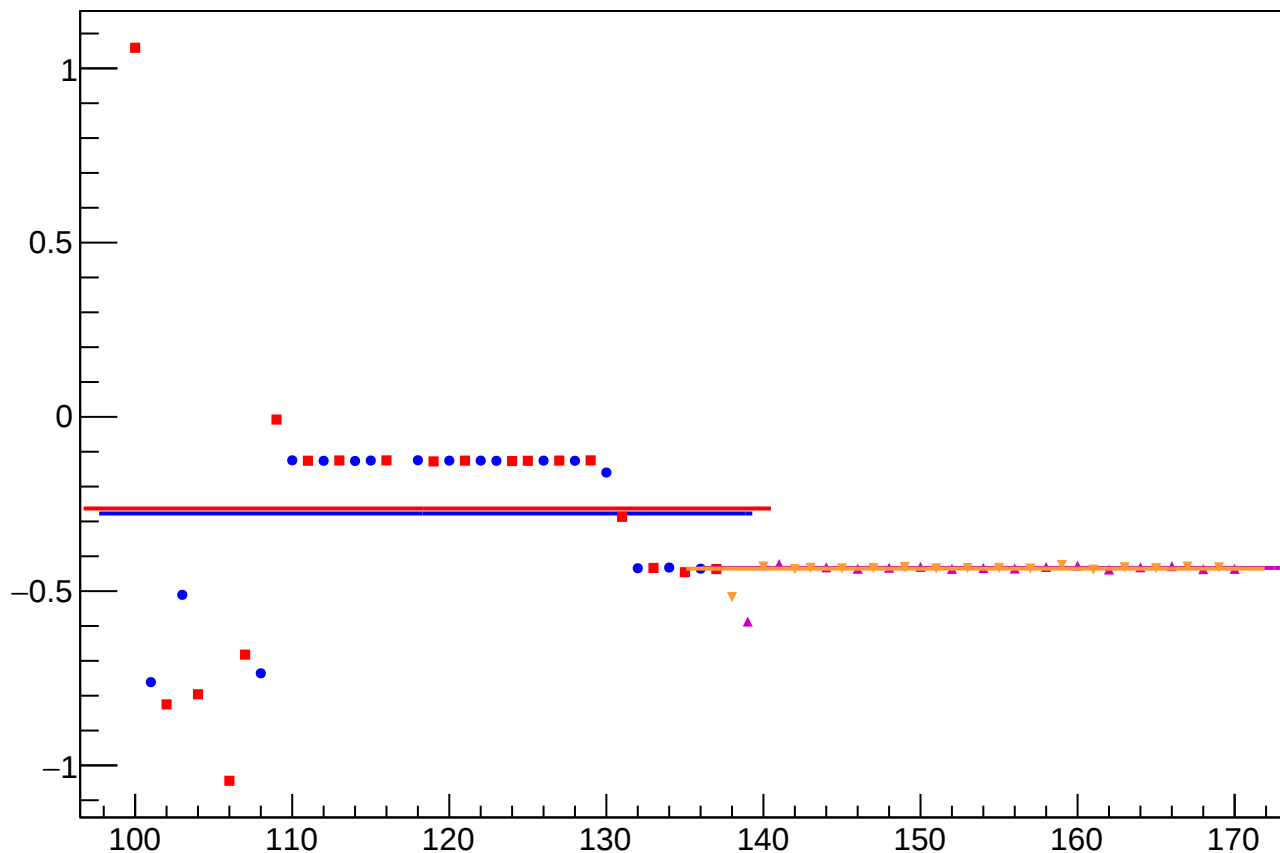
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3013207.9/32

Out: 0.009+/-0.000 χ^2/NDF :3021757.1/35

All: 0.009+/-0.000 χ^2/NDF : 6036135.4/68

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: 23627998.8/15

Left: -0.434+/-0.000 χ^2 /NDF: 49829040.0/32

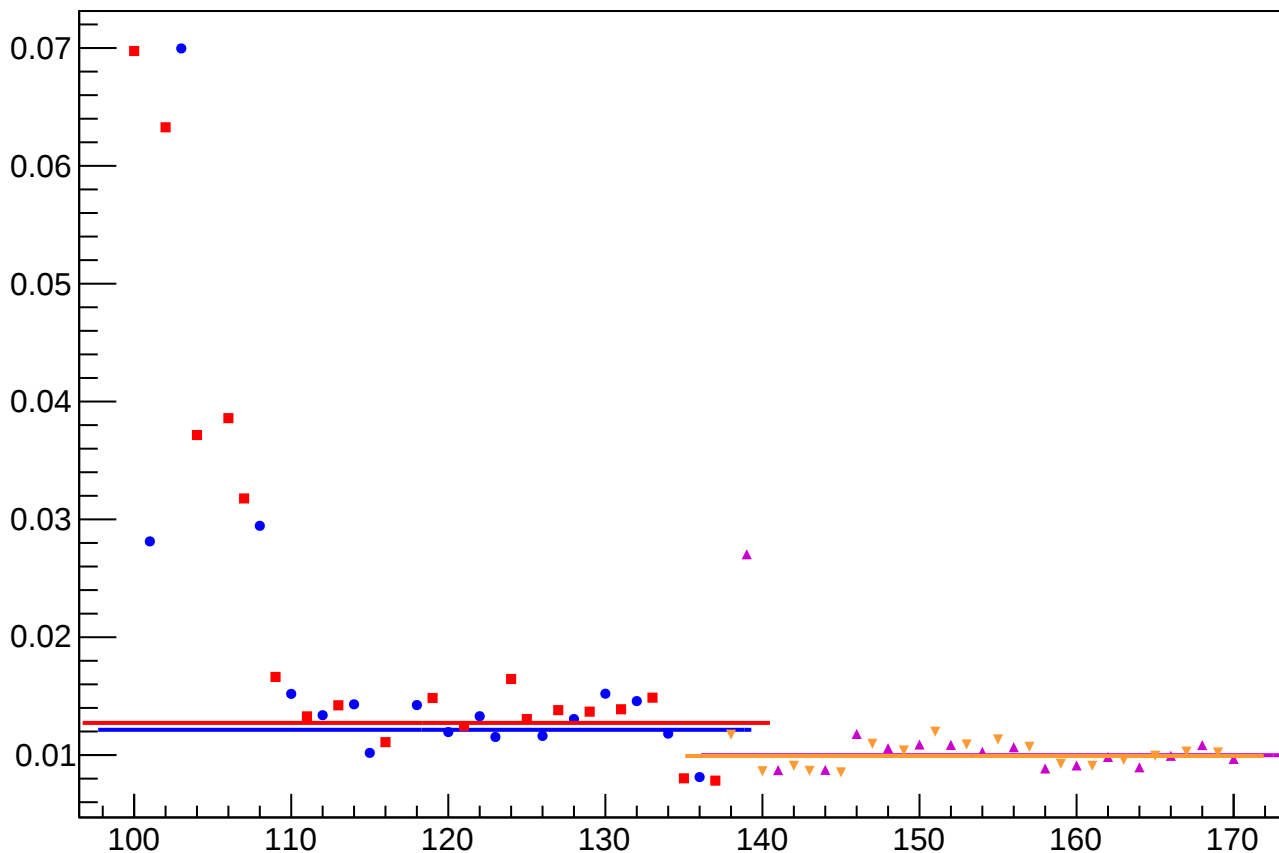
Right: -0.270+/-0.000 χ^2 /NDF: 1952121842.2/35

In: -0.397+/-0.000 χ^2 /NDF: 1561303979.4/32

Out: -0.398+/-0.000 χ^2 /NDF: 1731169478.3/35

All: -0.397+/-0.000 χ^2 /NDF: 3292570203.9/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1727494.7/16

Left Out: 0.010+/-0.000 χ^2/NDF :227553.2/16

Right Out: 0.013+/-0.000 χ^2/NDF : 1969165.0/18

Left In: 0.010+/-0.000 χ^2/NDF :704932.7/15

Left: 0.010+/-0.000 χ^2/NDF : 932974.2/32

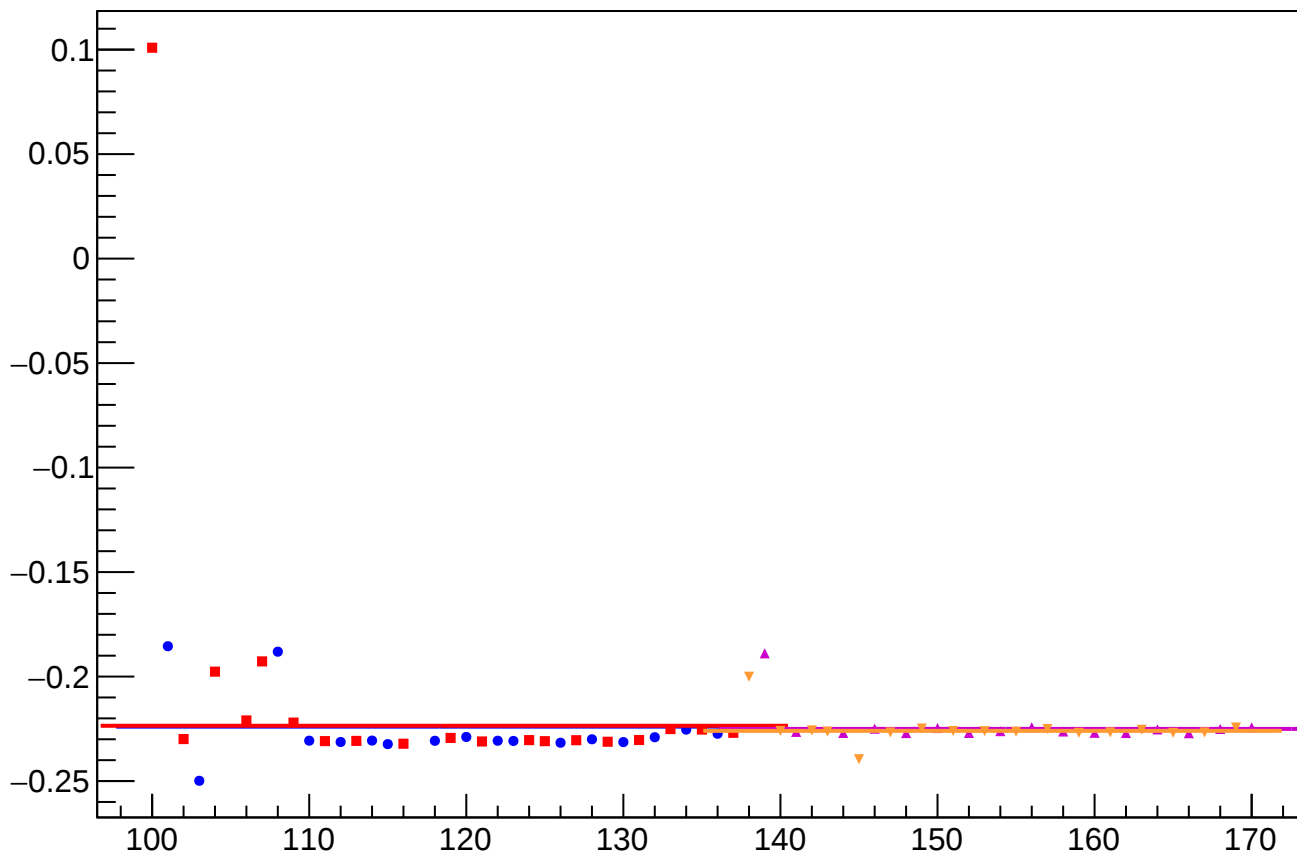
Right: 0.012+/-0.000 χ^2/NDF : 3707277.9/35

In: 0.010+/-0.000 χ^2/NDF :2659418.4/32

Out: 0.011+/-0.000 χ^2/NDF :2565692.1/35

All: 0.011+/-0.000 χ^2/NDF : 5225298.6/68

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 : 14355941.3/15

Left: -0.226+/-0.000 χ^2/NDF : 35237809.0/32

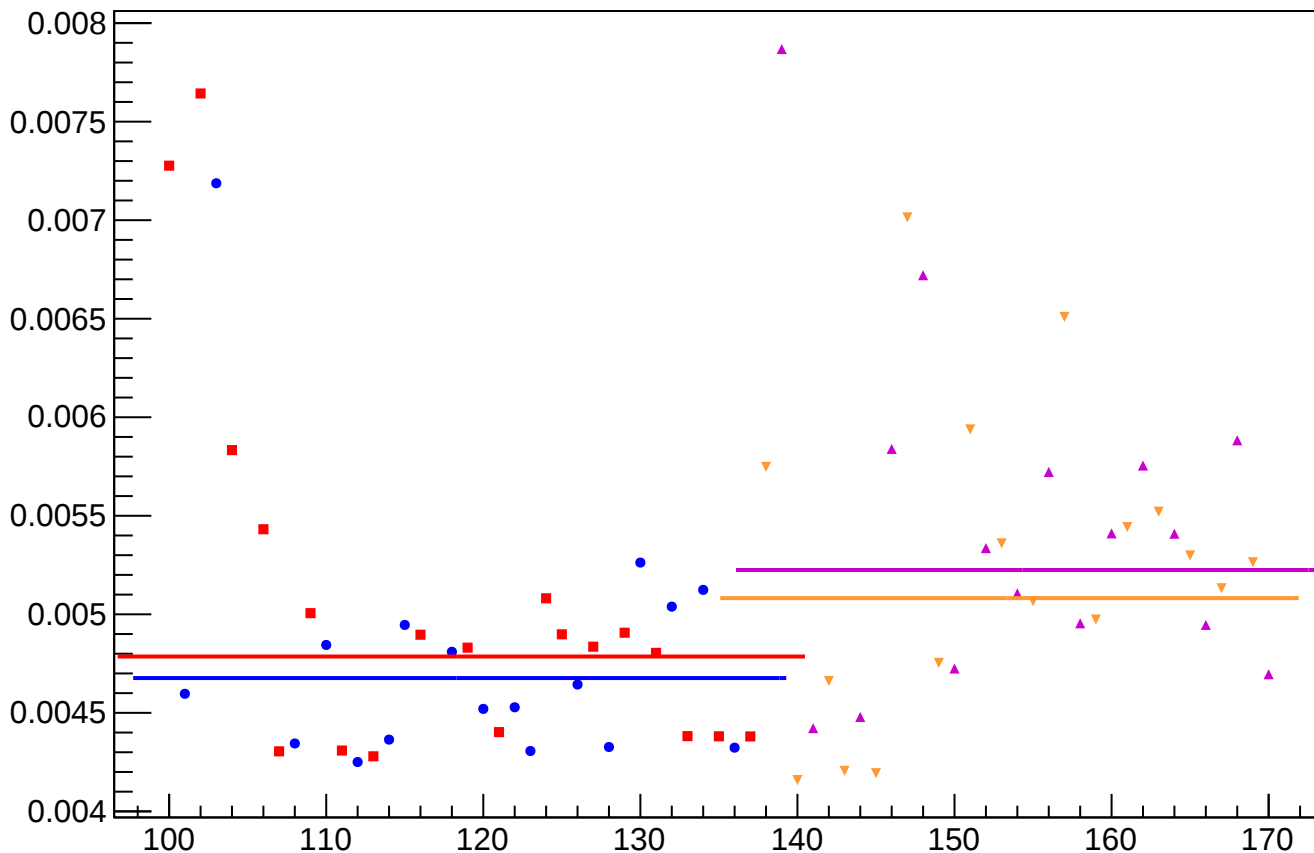
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89259028.5/32

Out: -0.225+/-0.000 χ^2/NDF : 189834055.9/35

All: -0.225+/-0.000 χ^2/NDF : 279163657.8/68

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 : 425722.6/15

Left: 0.005+/-0.000 χ^2/NDF : 884354.1/32

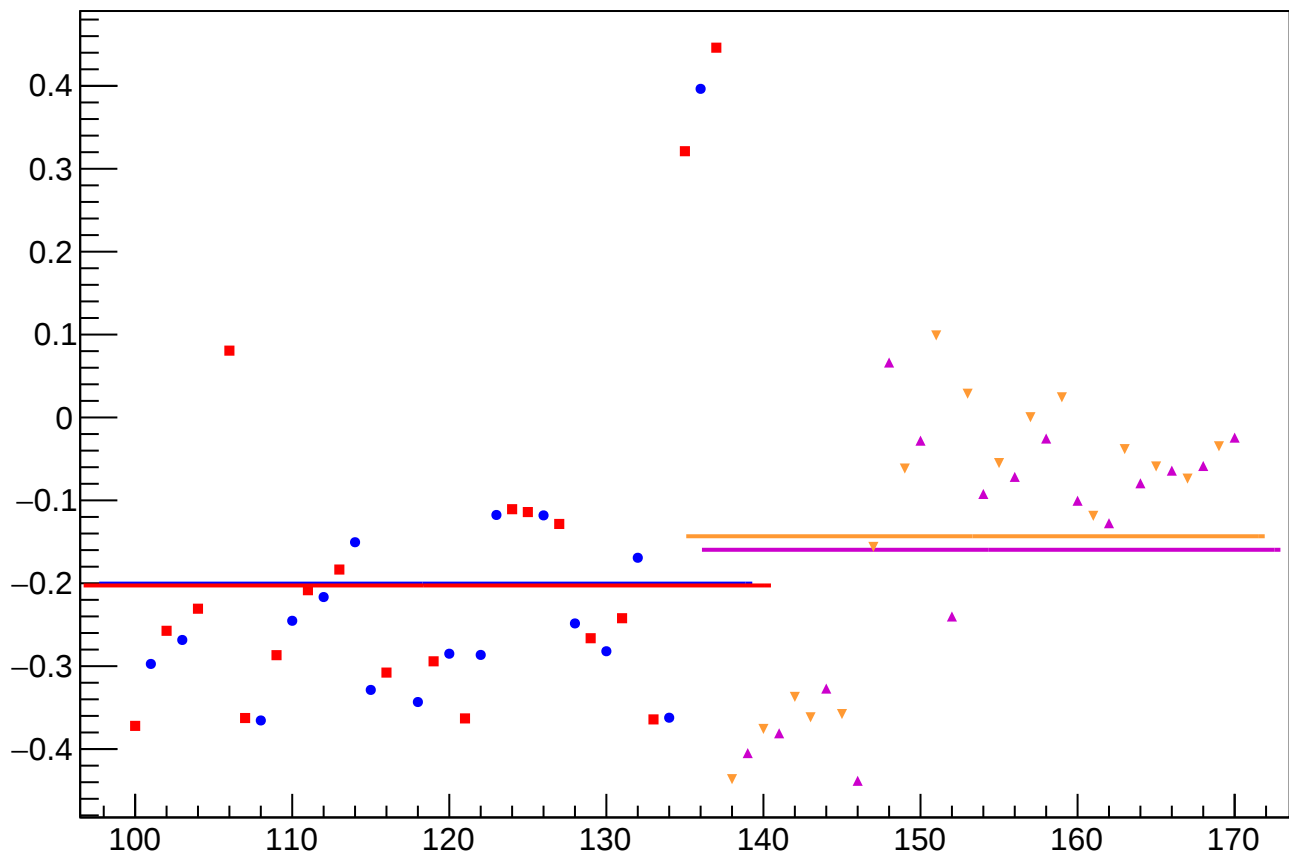
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 707848.9/32

Out: 0.005+/-0.000 χ^2/NDF : 728240.4/35

All: 0.005+/-0.000 χ^2/NDF : 1437245.1/68

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.143 ± 0.000 χ^2/NDF : 11496164916.3/16

Right Out: -0.203 ± 0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.160 ± 0.000 χ^2/NDF : 8759940021.3/15

Left: -0.151 ± 0.000 χ^2/NDF : 20309061343.5/32

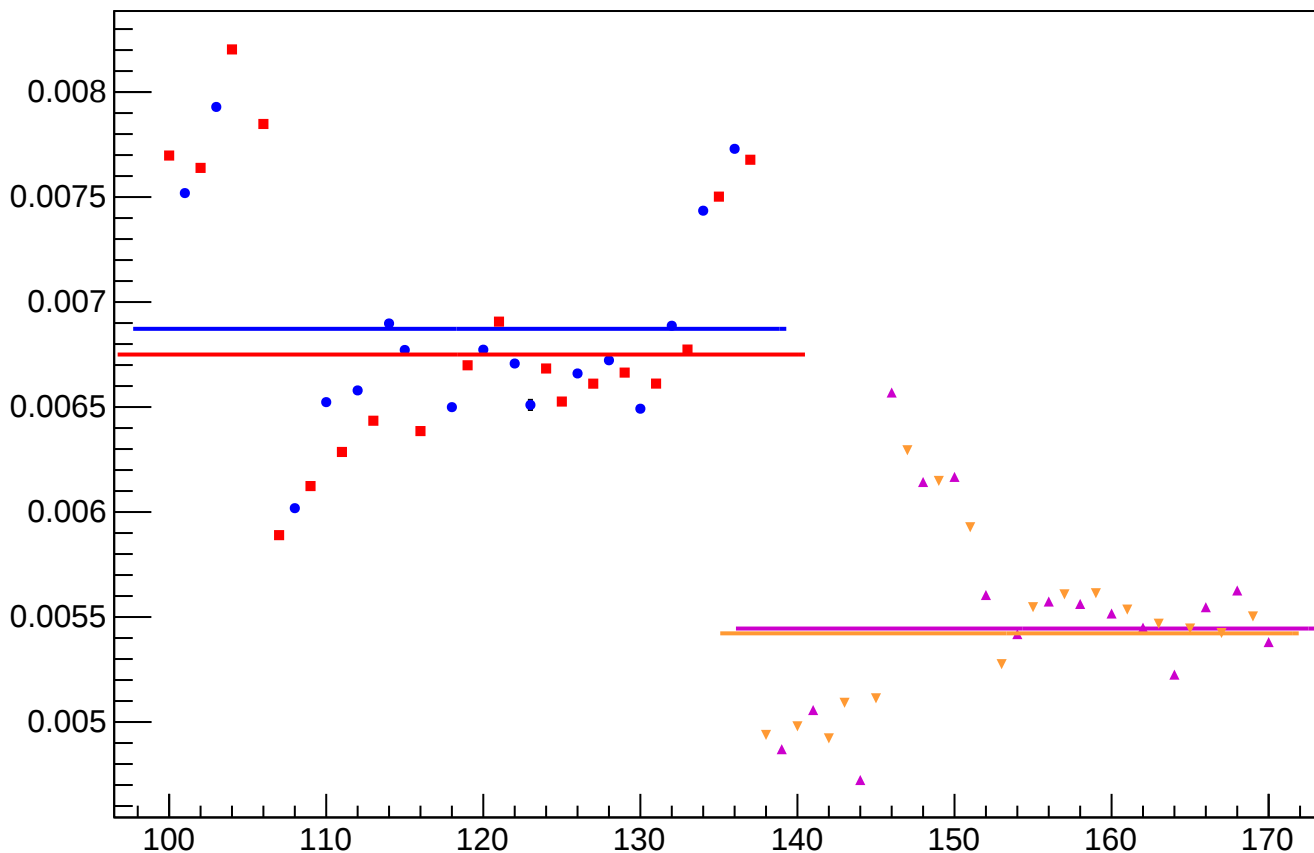
Right: -0.202 ± 0.000 χ^2/NDF : 11002181720.9/35

In: -0.170 ± 0.000 χ^2/NDF : 14904506482.8/32

Out: -0.159 ± 0.000 χ^2/NDF : 16911326505.1/35

All: -0.165 ± 0.000 χ^2/NDF : 31847656606.1/70

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78611.6/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:105925.9/16

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 105124.4/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:148200.1/15

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 254335.4/32

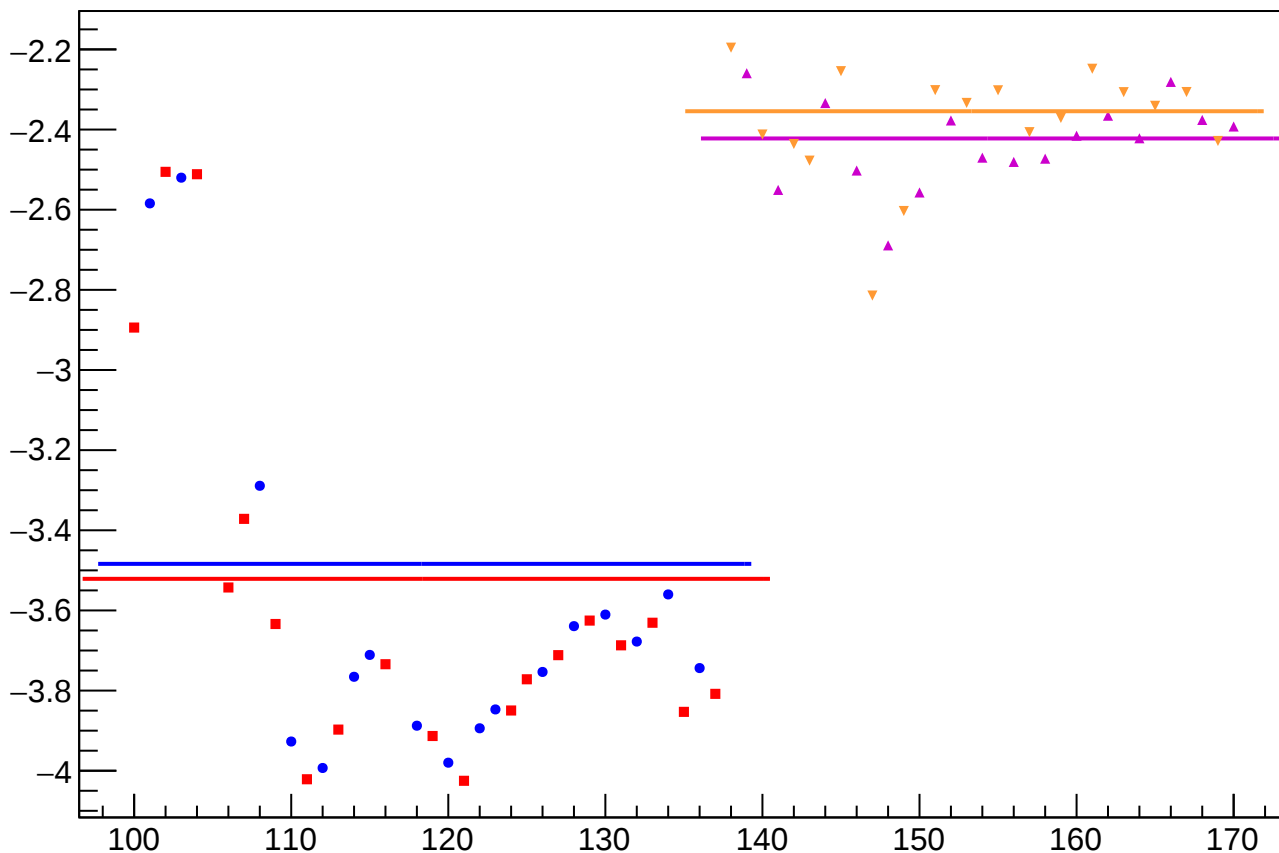
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 185903.4/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:644888.7/32

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:598260.6/35

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1243800.0/68

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: -2.422+/-0.000 χ^2/NDF : 1135964396.7/15

Left: -2.388+/-0.000 χ^2/NDF : 3223757887.8/32

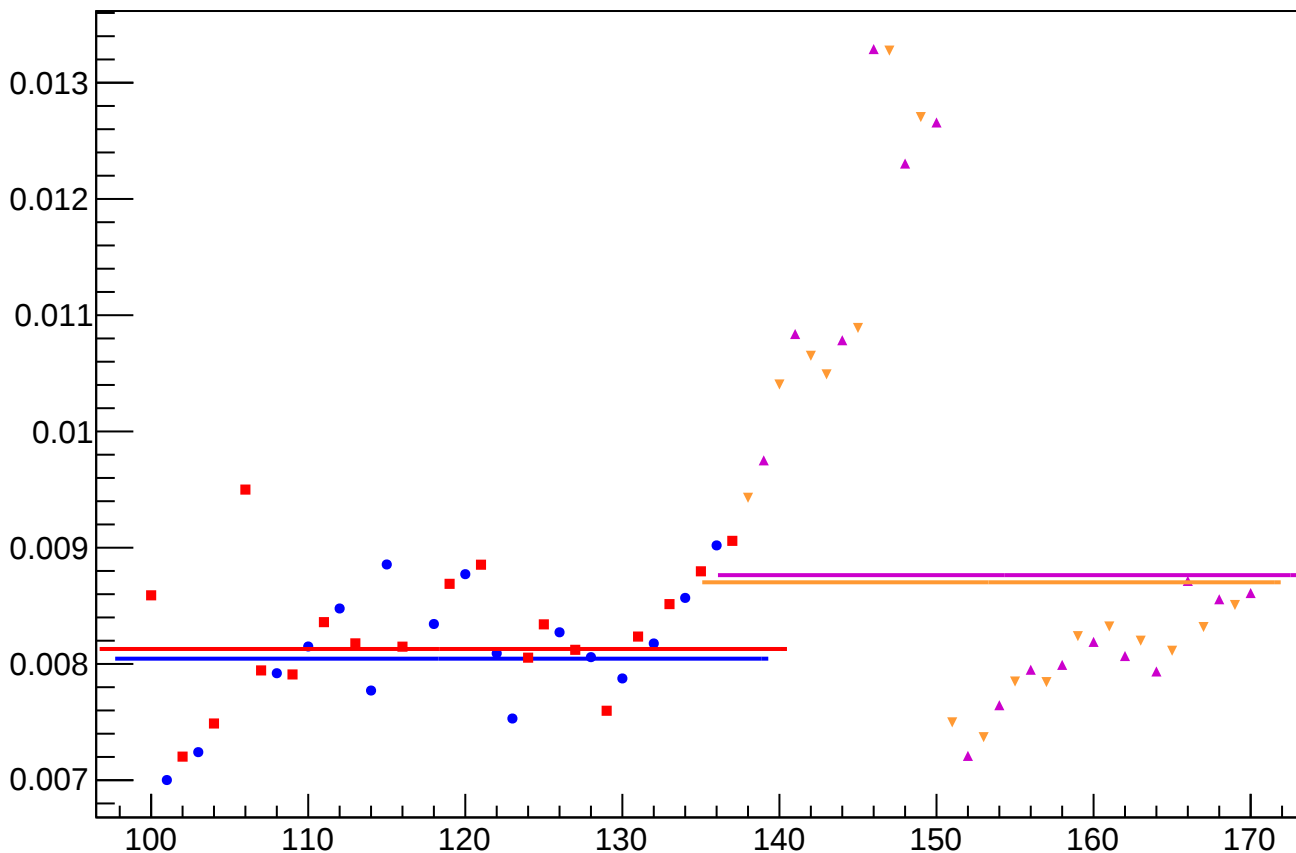
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.850+/-0.000 χ^2/NDF : 95979554154.0/32

Out: -2.822+/-0.000 χ^2/NDF : 111857578787.6/35

All: -2.836+/-0.000 χ^2/NDF : 207935445332.7

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 : 700465.3/15

Left: 0.009+/-0.000 χ^2/NDF : 1295025.3/32

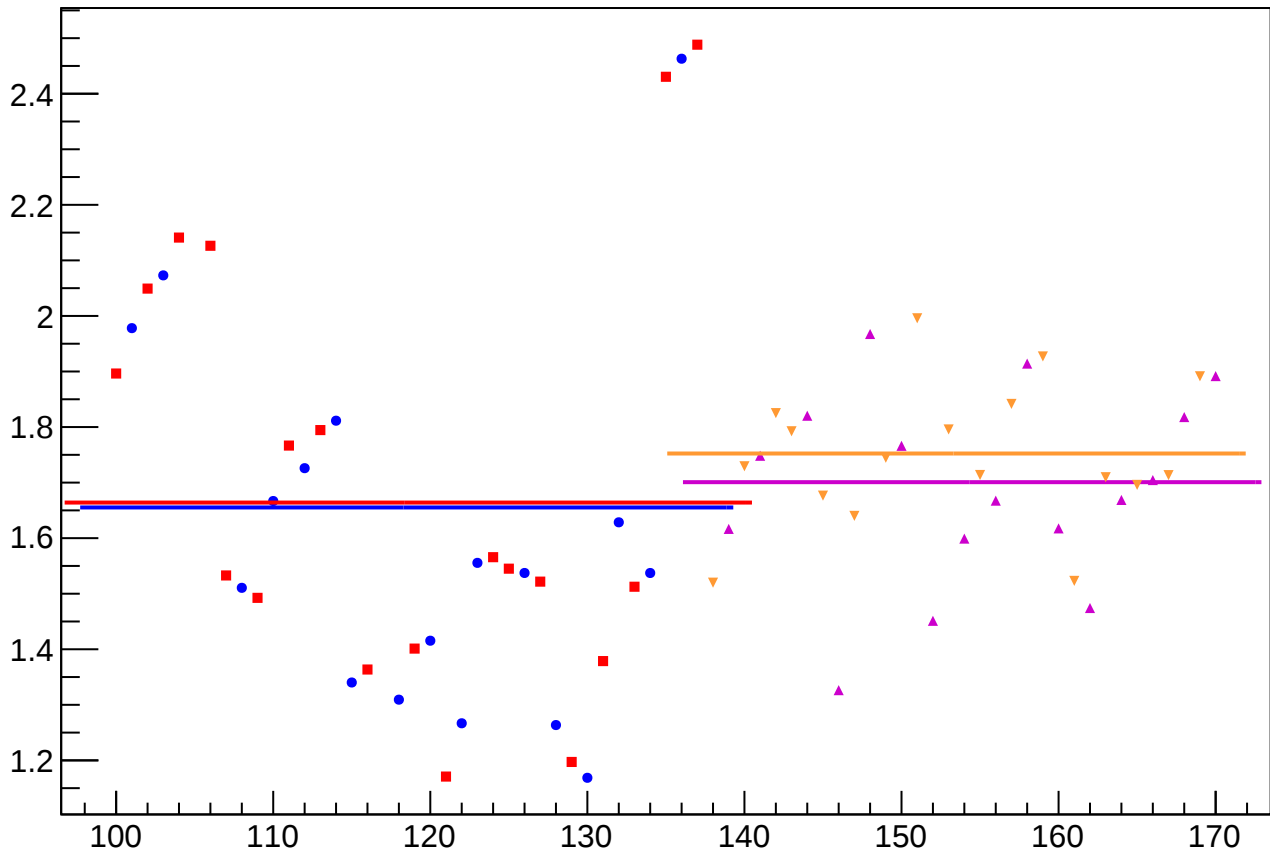
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 834458.5/32

Out: 0.008+/-0.000 χ^2/NDF : 691889.0/35

All: 0.008+/-0.000 χ^2/NDF : 1526348.5/68

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.752+/-0.000 χ^2/NDF :1680088956.4/16

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.701+/-0.000 χ^2/NDF :2705957063.5/15

Left: 1.727+/-0.000 χ^2/NDF : 4524643026.8/32

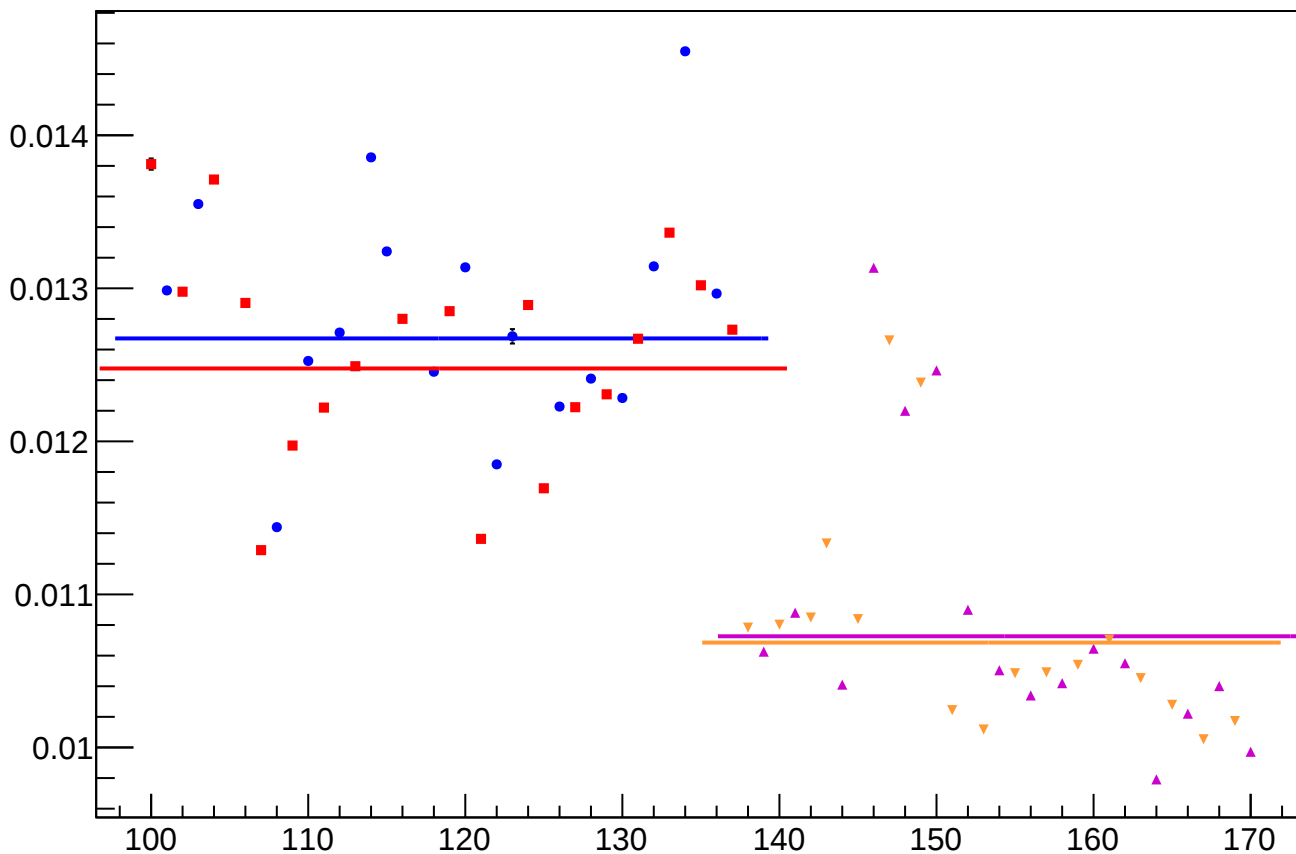
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.688+/-0.000 χ^2/NDF :9243027945.8/32

Out: 1.726+/-0.000 χ^2/NDF :7867404269.7/35

All: 1.707+/-0.000 χ^2/NDF : 17218914846.4/66

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 : 129408.8/15

Left: 0.011+/-0.000 χ^2/NDF : 218842.6/32

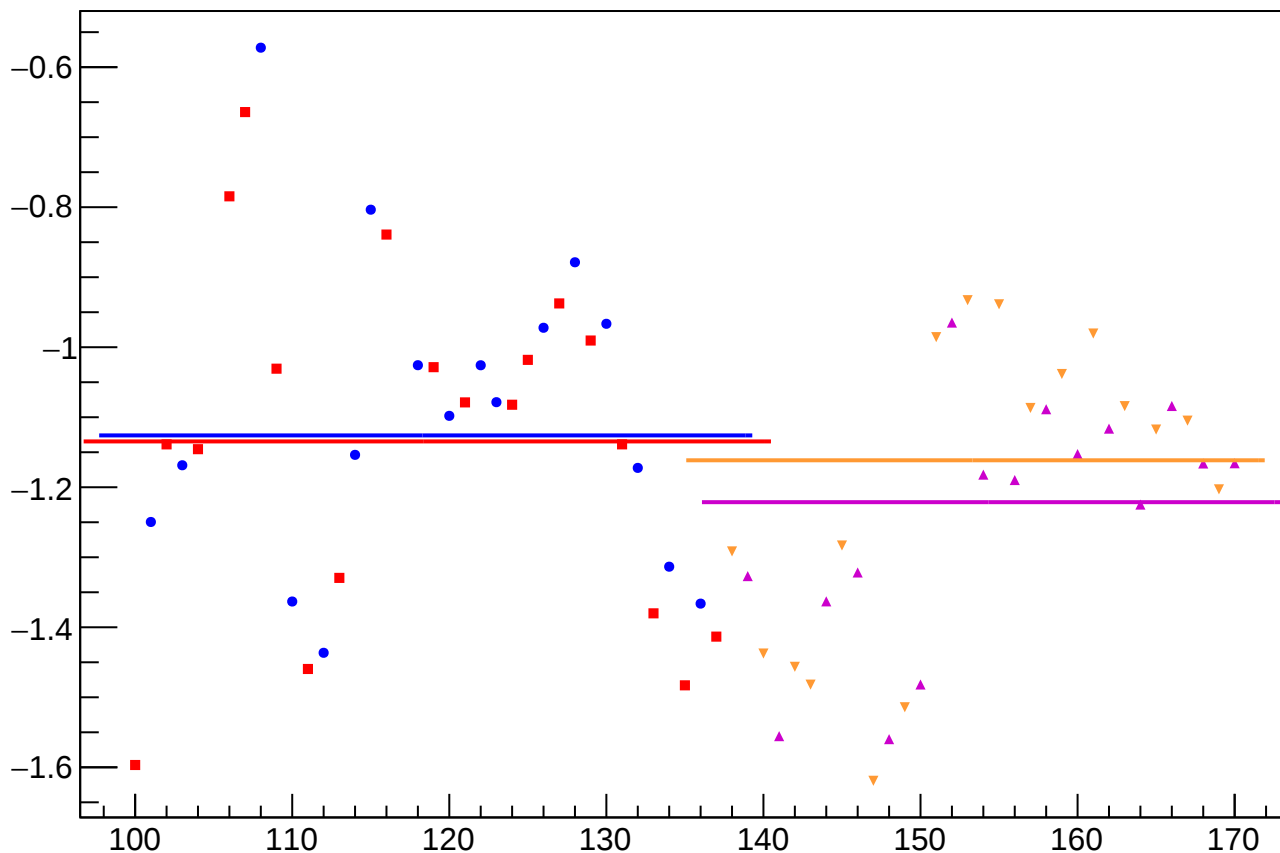
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF : 382602.9/32

Out: 0.011+/-0.000 χ^2/NDF : 328384.8/35

All: 0.011+/-0.000 χ^2/NDF : 711621.2/68

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: -1.221+/-0.000

χ^2/NDF : 4502497015.2/15

Left: -1.191+/-0.000

χ^2/NDF : 11935964713.0/32

Right: -1.130+/-0.000

χ^2/NDF : 7255318739.1/35

In: -1.191+/-0.000

χ^2/NDF : 8585650065.1/32

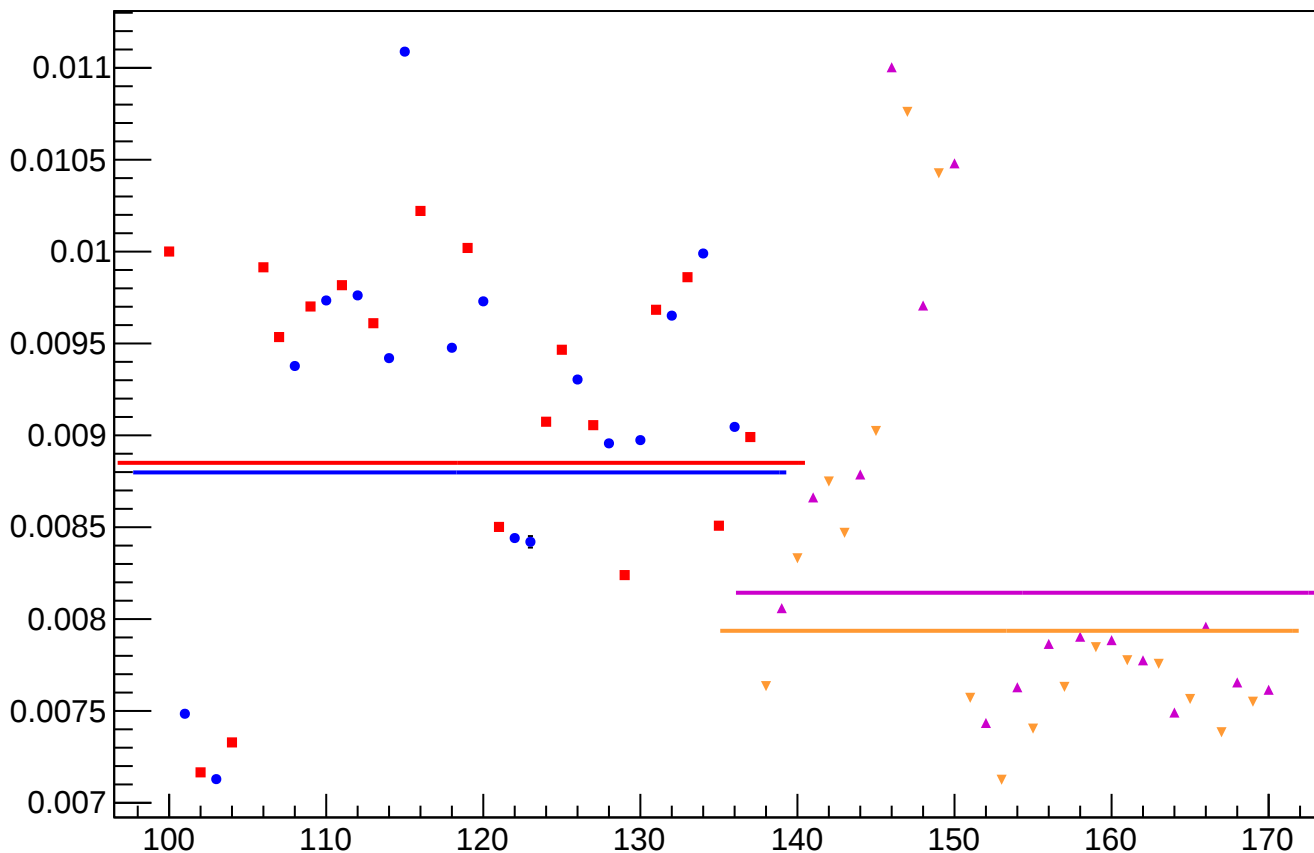
Out: -1.153+/-0.000

χ^2/NDF : 10833166141.5/35

All: -1.171+/-0.000

χ^2/NDF : 19604625928.3/70

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 :259126.0/15

Left: 0.008+/-0.000 χ^2/NDF : 515290.0/32

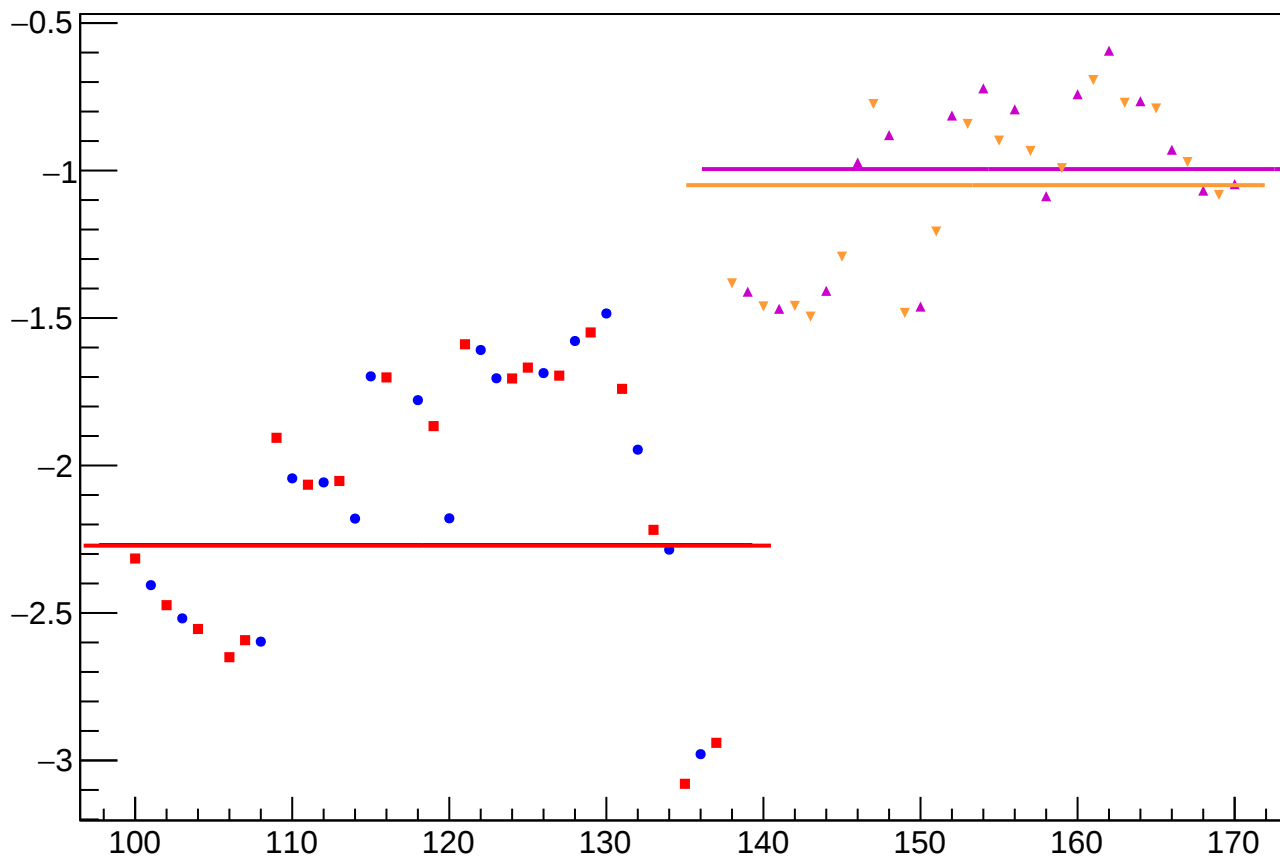
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :458664.0/32

Out: 0.008+/-0.000 χ^2/NDF :519206.2/35

All: 0.008+/-0.000 χ^2/NDF : 982290.7/68

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: -0.995+/-0.000 χ^2/NDF : 18012412919.1/15

Left: -1.022+/-0.000 χ^2/NDF : 35957129076.8/32

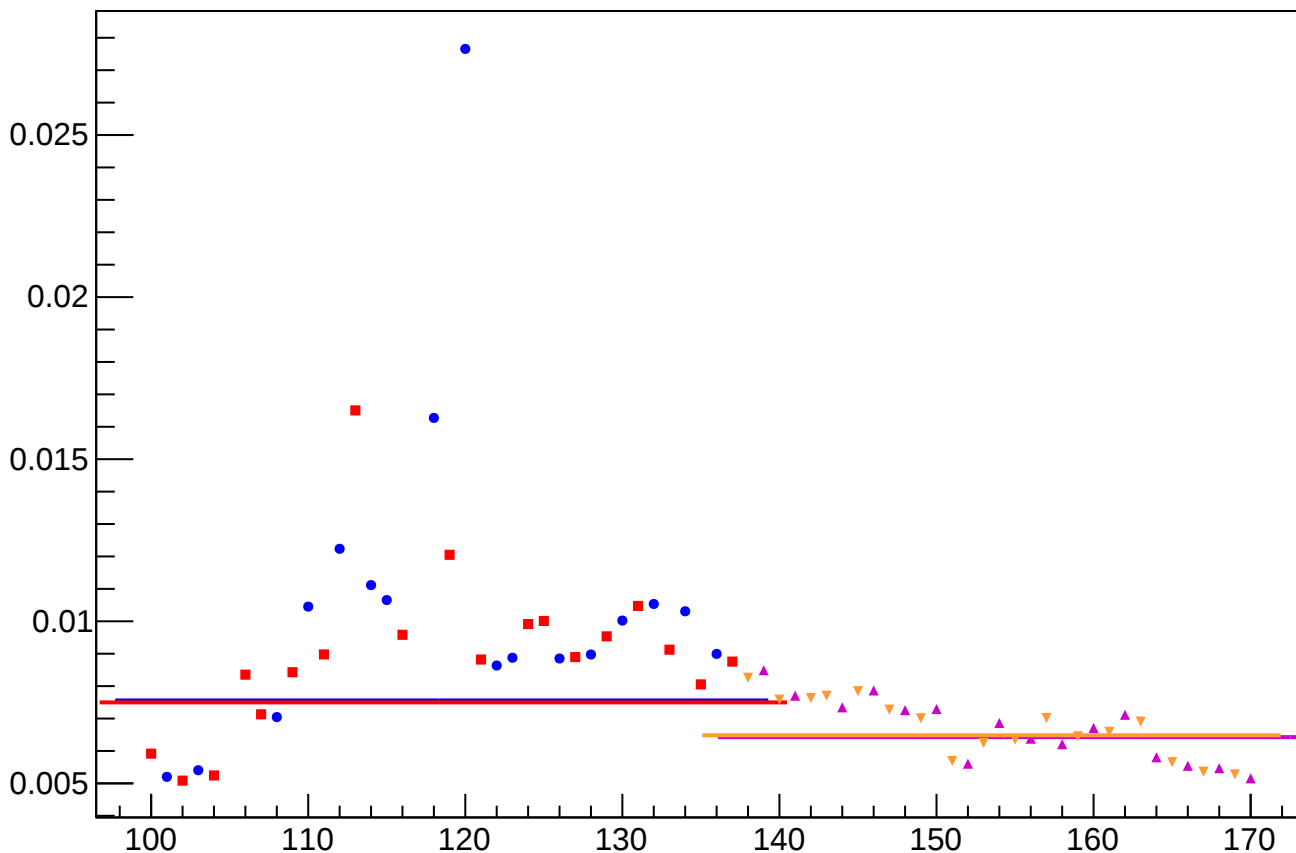
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.304+/-0.000 χ^2/NDF : 143881920831.0/32

Out: -1.378+/-0.000 χ^2/NDF : 145299033214.4/35

All: -1.341+/-0.000 χ^2/NDF : 290194070974.8

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: 0.006+/-0.000 χ^2/NDF : 475255.3/15

Left: 0.006+/-0.000 χ^2/NDF : 895285.0/32

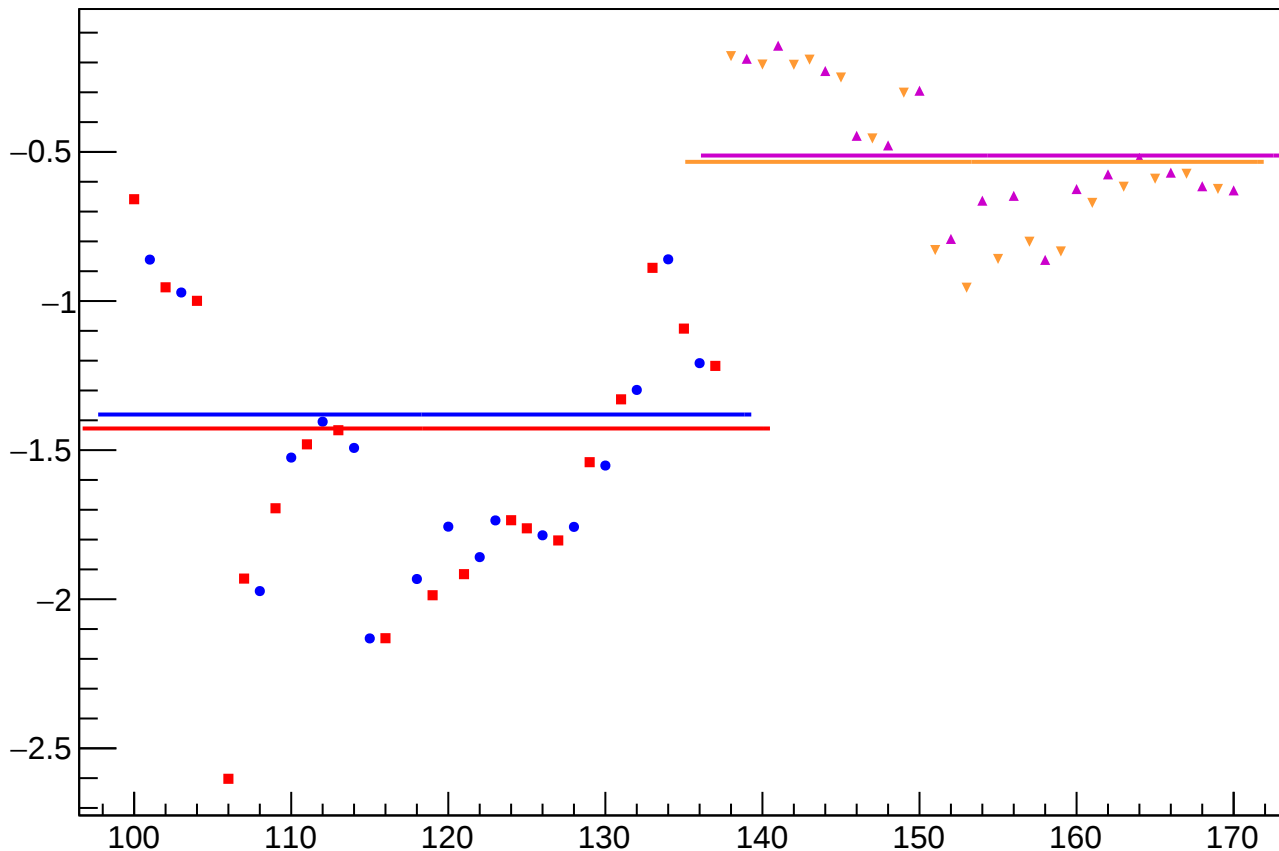
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF : 1867082.3/32

Out: 0.007+/-0.000 χ^2/NDF : 1503210.6/35

All: 0.007+/-0.000 χ^2/NDF : 3371414.5/68

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.533+/-0.000 χ^2/NDF : 45009781569.2/16

Right Out: -1.427+/-0.000 χ^2/NDF : 29616178528.0/18

Left In: -0.512+/-0.000 χ^2/NDF : 29520335238.2/15

Left: -0.523+/-0.000 χ^2/NDF : 74679120167.1/32

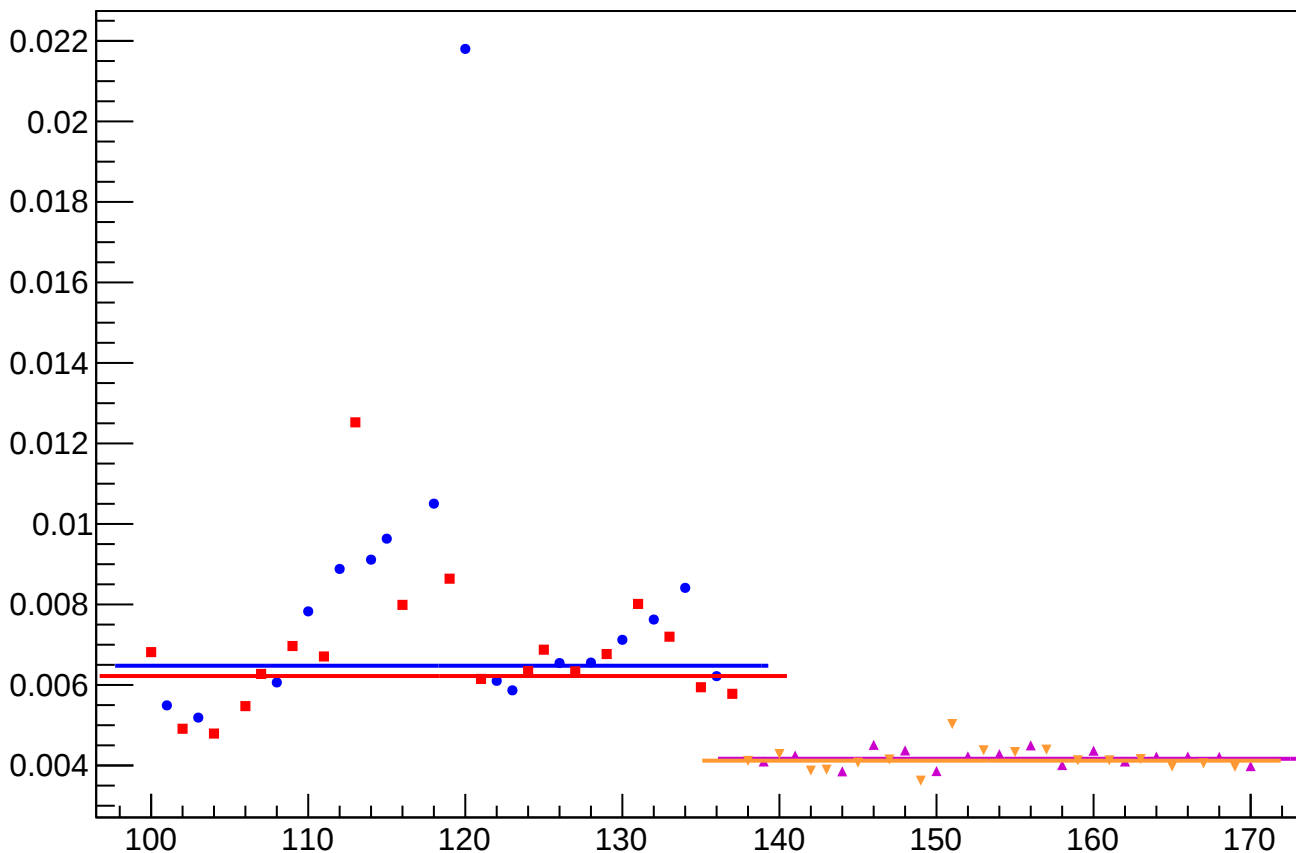
Right: -1.406+/-0.000 χ^2/NDF : 49770978716.8/35

In: -0.656+/-0.000 χ^2/NDF : 131260088438.3/32

Out: -0.698+/-0.000 χ^2/NDF : 173762780597.9/35

All: -0.677+/-0.000 χ^2/NDF : 305732349787.7

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF : 92356.3/16

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 50371.8/15

Left: 0.004+/-0.000 χ^2/NDF : 144177.9/32

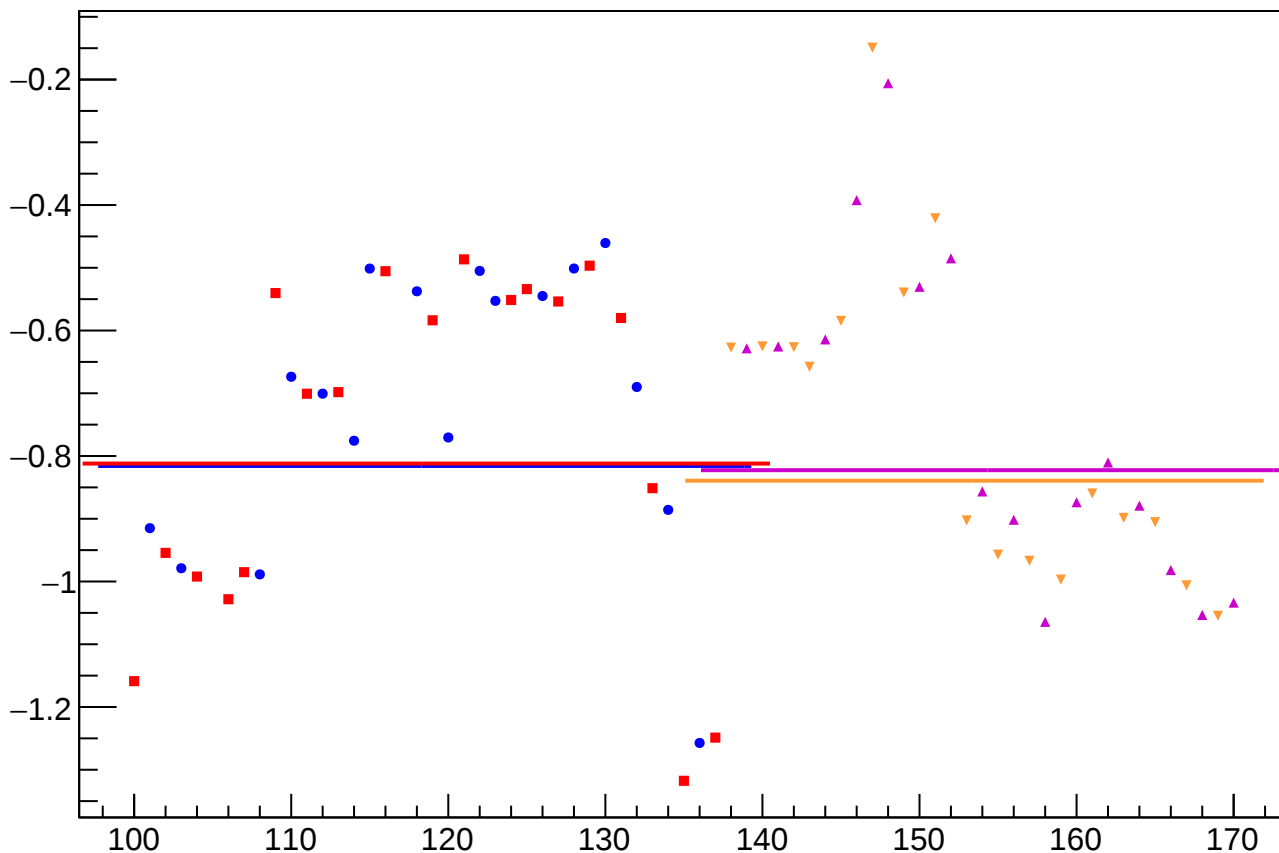
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.005+/-0.000 χ^2/NDF : 1780690.5/32

Out: 0.005+/-0.000 χ^2/NDF : 1611681.6/35

All: 0.005+/-0.000 χ^2/NDF : 3393814.5/68

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.839 ± 0.000 $\chi^2/\text{NDF}: 33355404049.0/16$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.823 ± 0.000 $\chi^2/\text{NDF}: 38177927210.0/15$

Left: -0.831 ± 0.000 $\chi^2/\text{NDF}: 71636303192.2/32$

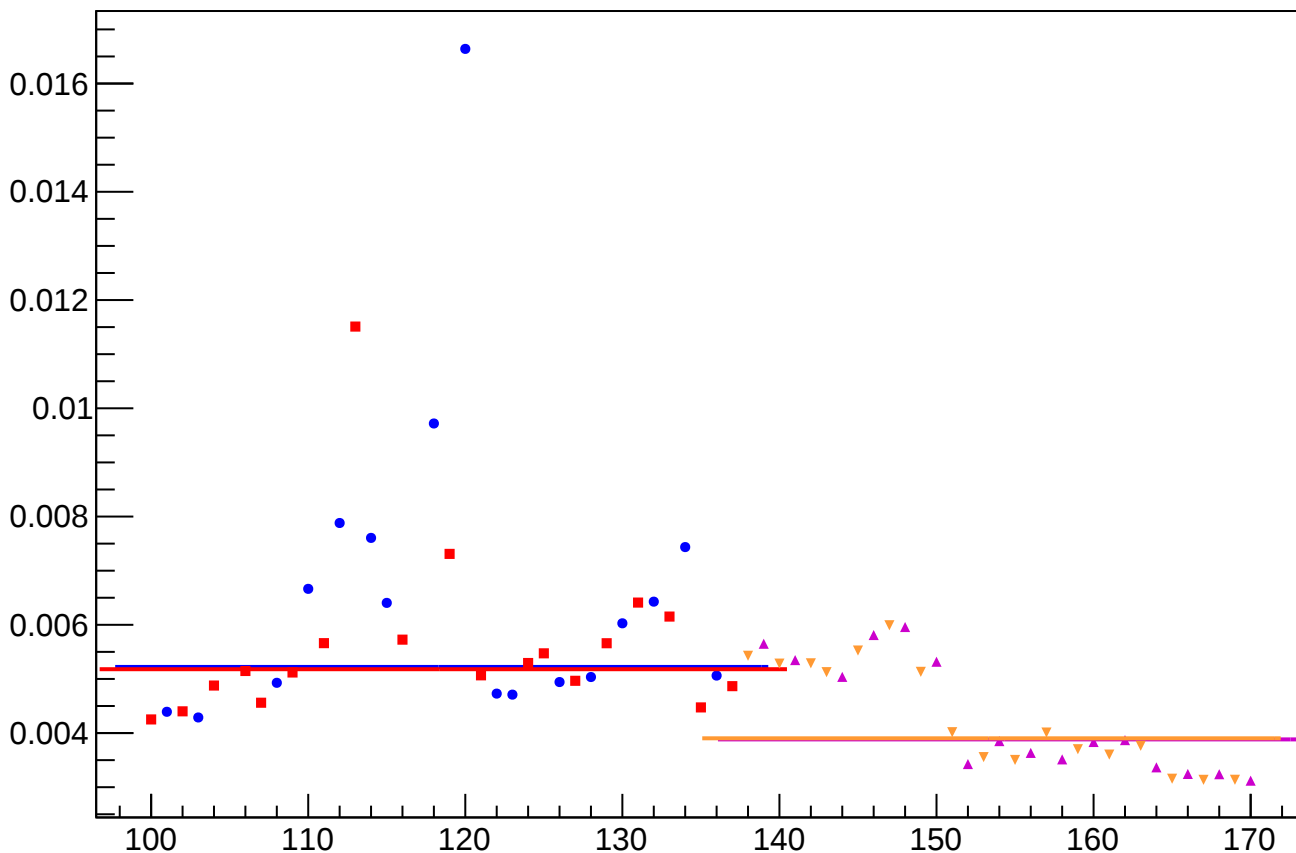
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.821 ± 0.000 $\chi^2/\text{NDF}: 52357942072.5/32$

Out: -0.833 ± 0.000 $\chi^2/\text{NDF}: 50297904306.0/35$

All: -0.827 ± 0.000 $\chi^2/\text{NDF}: 102721685374.0$

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF : 998541.1/16

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF : 1056040.5/15

Left: 0.004+/-0.000 χ^2/NDF : 2054878.9/32

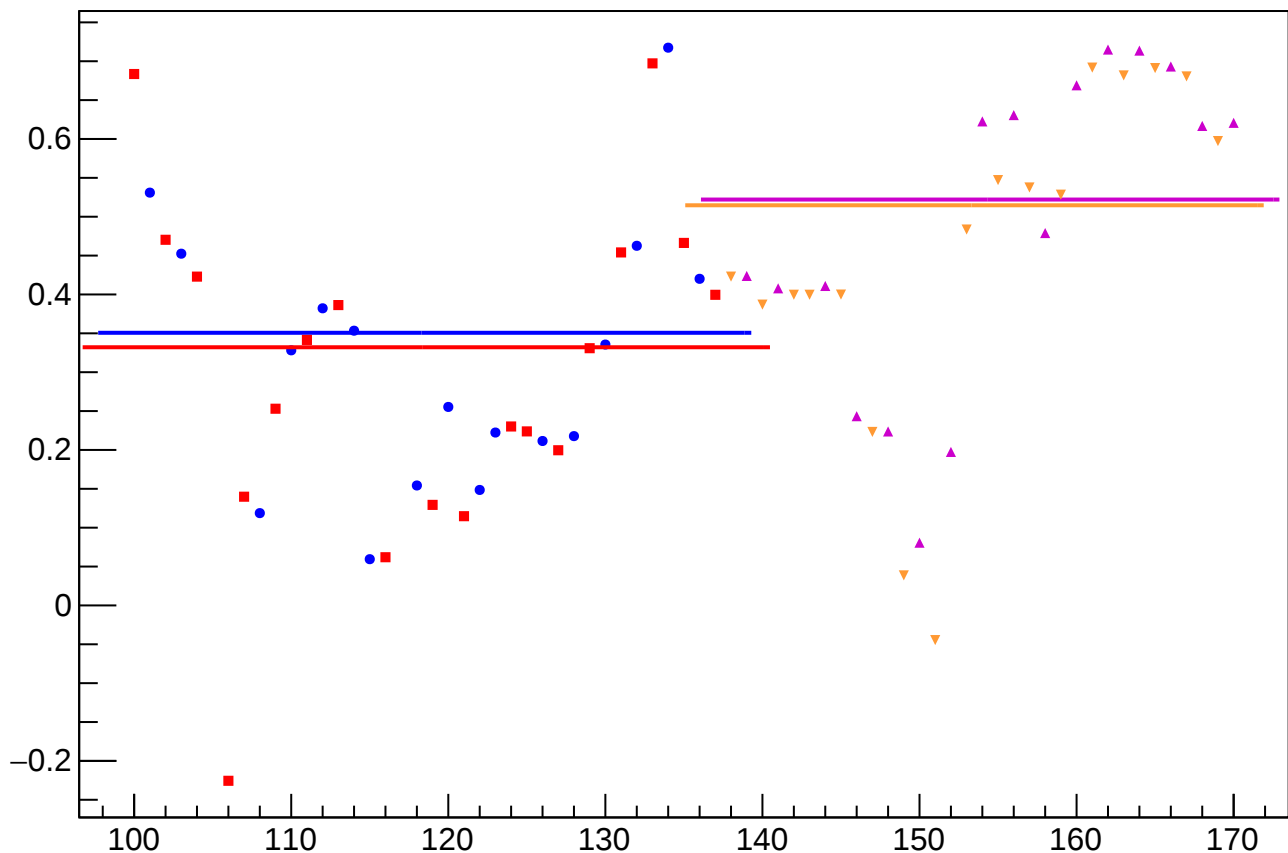
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF : 2275388.8/32

Out: 0.004+/-0.000 χ^2/NDF : 1915826.8/35

All: 0.004+/-0.000 χ^2/NDF : 4192461.0/68

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.518+/-0.000

χ^2/NDF : 73152157143.7/32

Left Out: 0.515+/-0.000

χ^2/NDF : 37901127668.0/16

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.479+/-0.000

χ^2/NDF : 50244840153.8/32

Out: 0.466+/-0.000

χ^2/NDF : 59278639114.3/35

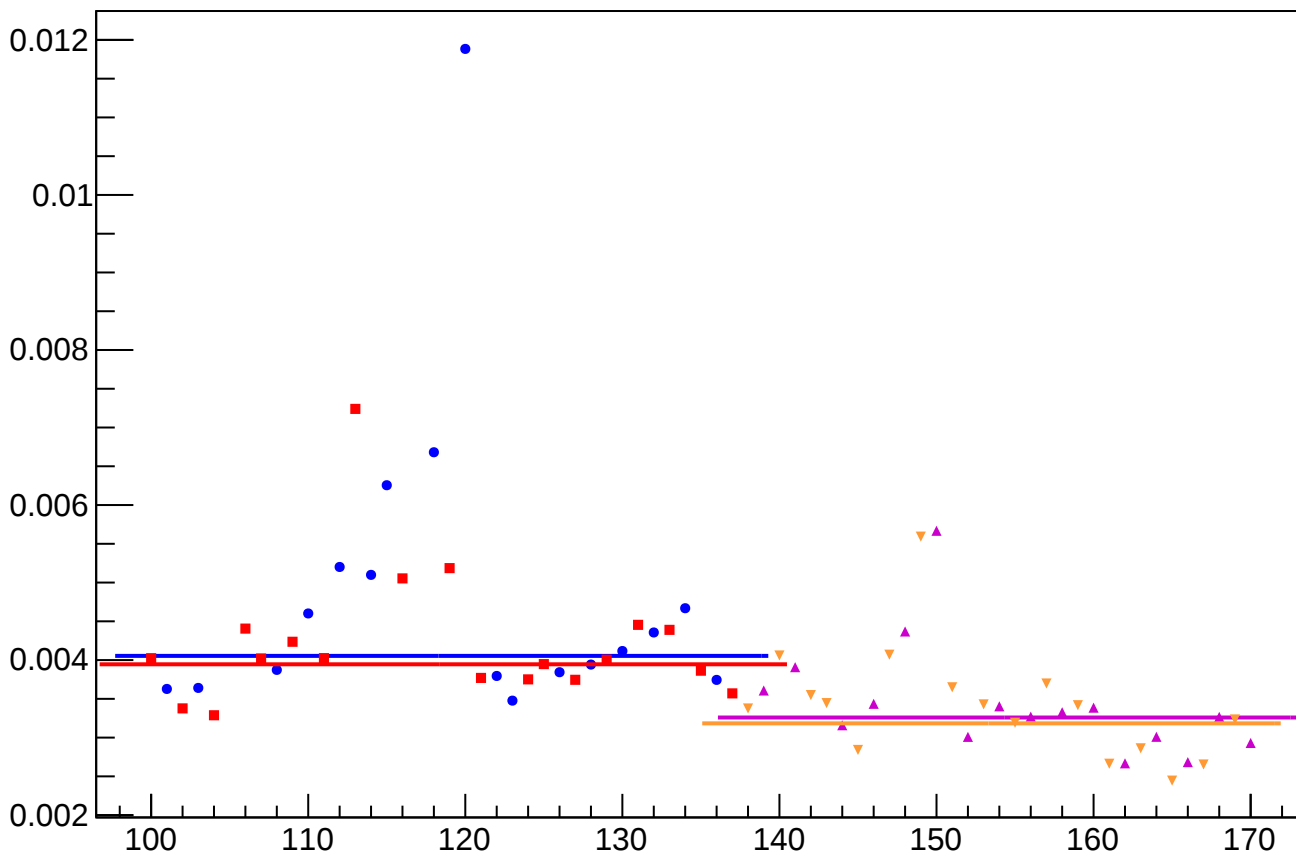
Left In: 0.522+/-0.000

χ^2/NDF : 35222607743.8/15

All: 0.472+/-0.000

χ^2/NDF : 109648257823.6

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 455318.3/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 708544.2/16

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 260968.0/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 577723.9/15

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 1292210.0/32

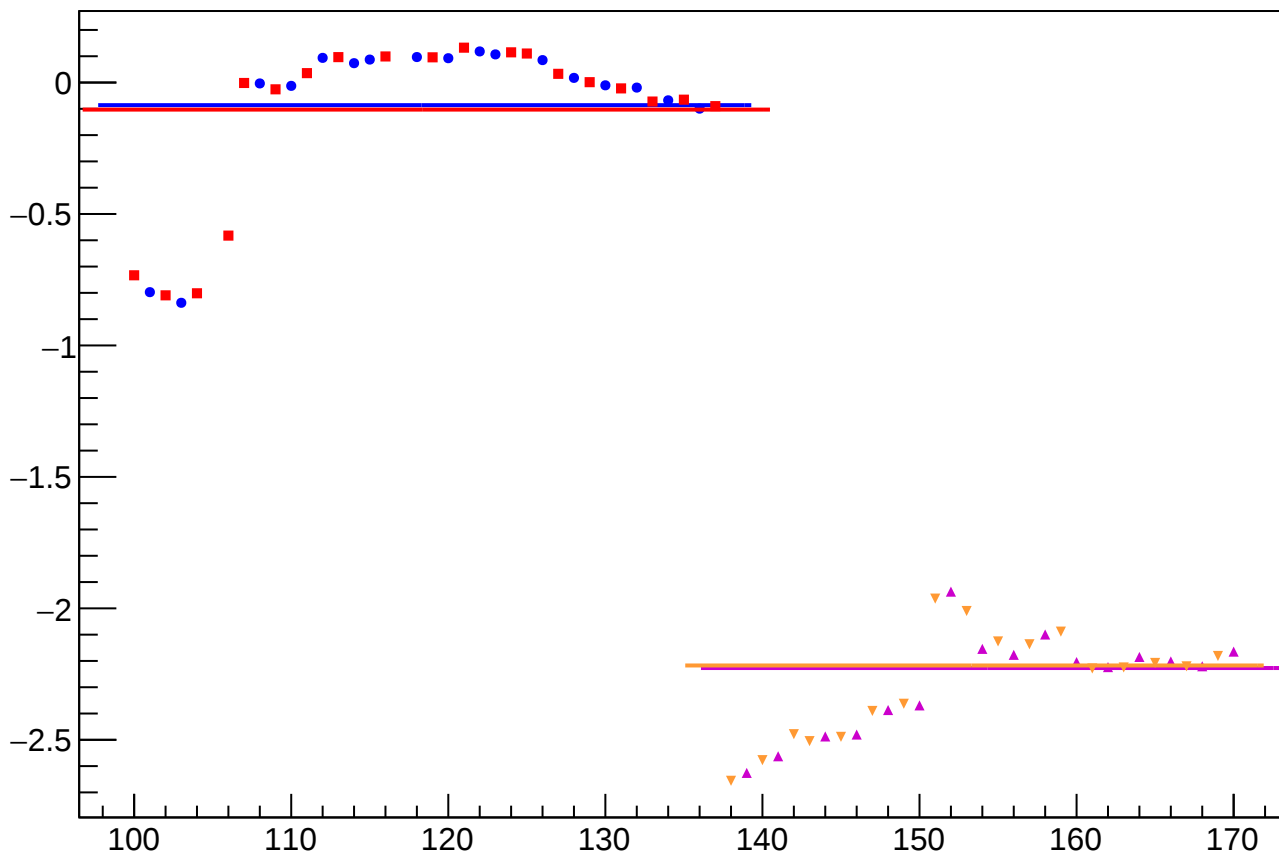
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 720633.0/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1360696.2/32

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 1303008.2/35

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2670829.6/68

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: -2.227+/-0.000 χ^2/NDF : 2726616619.5/15

Left: -2.222+/-0.000 χ^2/NDF : 6157637353.2/32

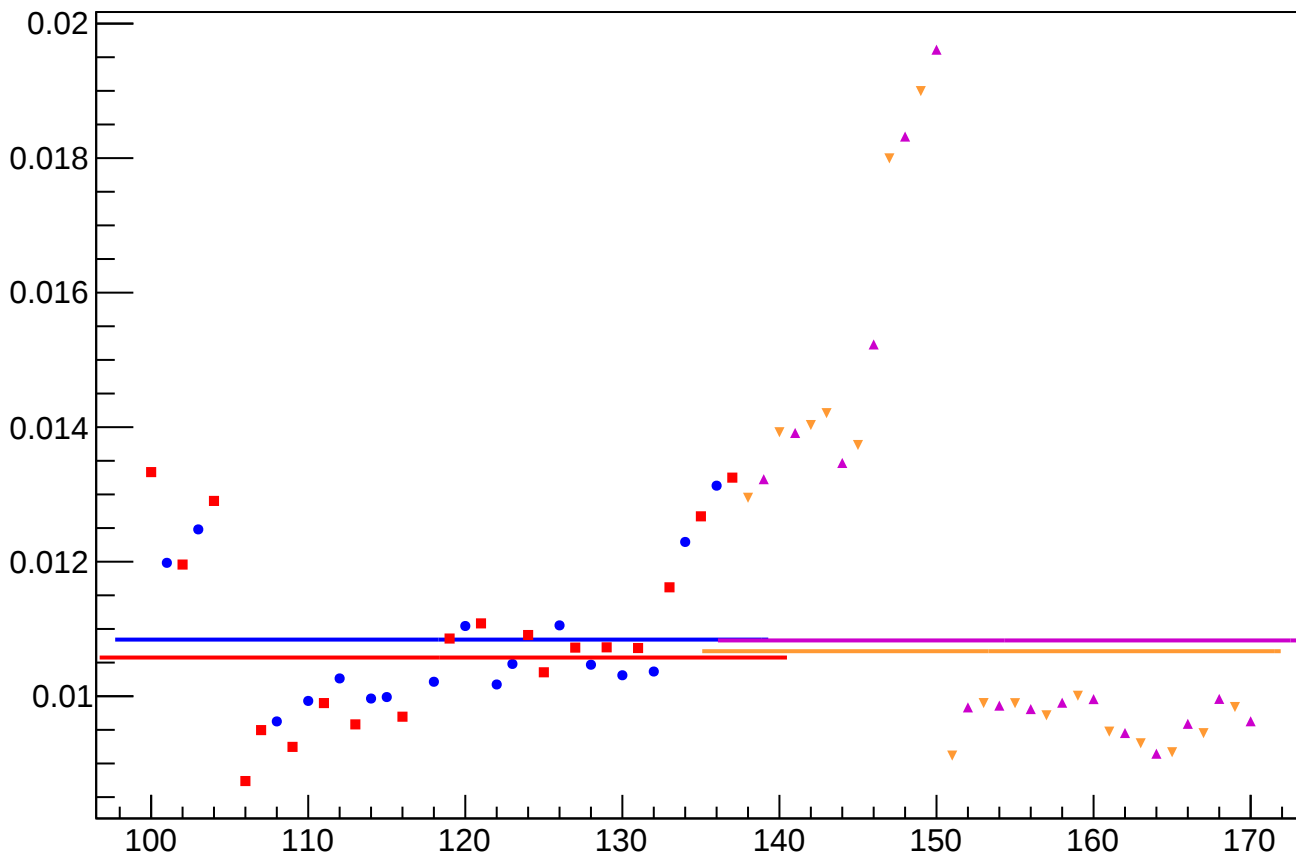
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.458+/-0.000 χ^2/NDF : 173625706052.4/32

Out: -1.429+/-0.000 χ^2/NDF : 184834971612.7/35

All: -1.443+/-0.000 χ^2/NDF : 358529463843.9

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :1115470.9/16

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF :1145388.0/15

Left: 0.011+/-0.000 χ^2/NDF : 2263502.9/32

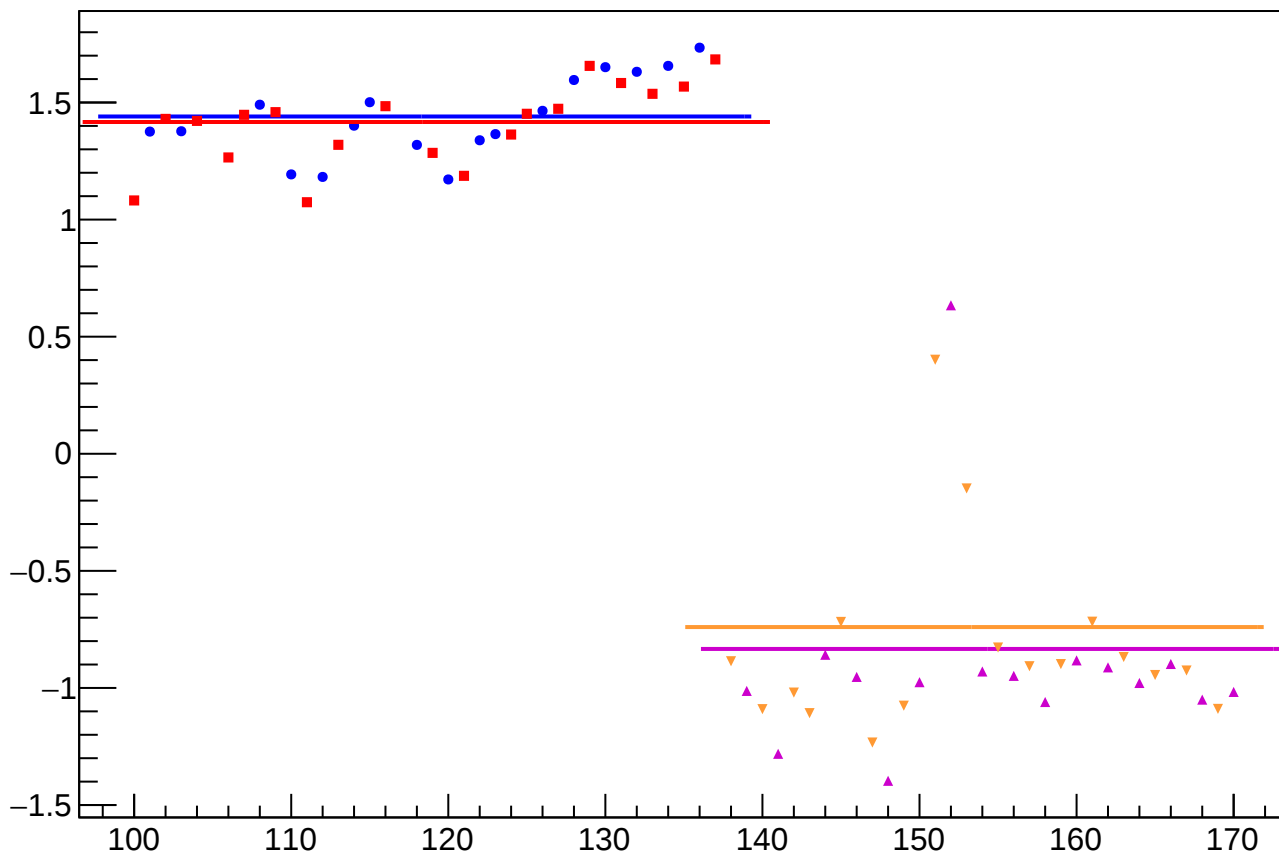
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1269659.6/32

Out: 0.011+/-0.000 χ^2/NDF :1295134.1/35

All: 0.011+/-0.000 χ^2/NDF : 2571274.2/68

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: -0.833 $\pm$ 0.000 χ^2 /NDF: 40736691019.4/15

Left: -0.786 $\pm$ 0.000 χ^2 /NDF: 73959445937.9/32

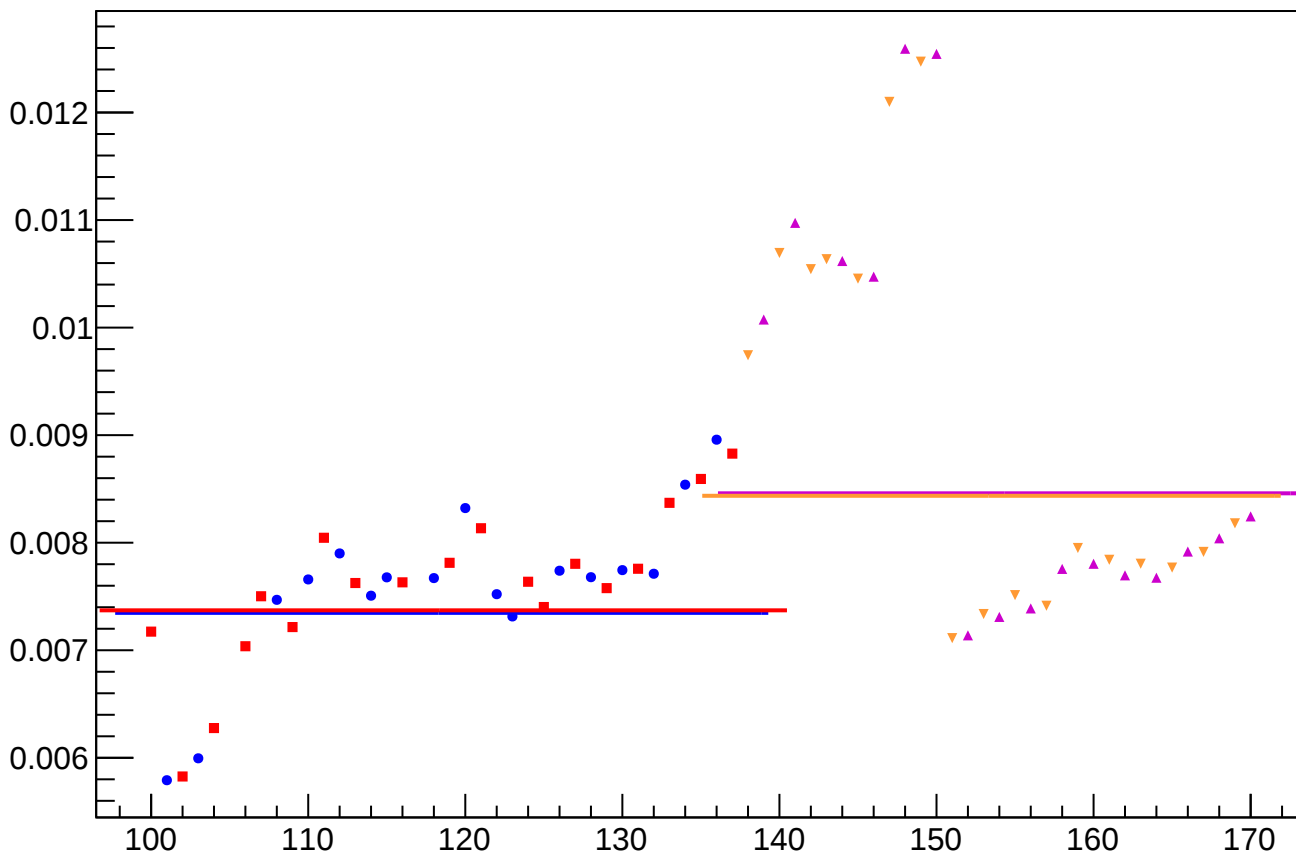
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.124 $\pm$ 0.000 χ^2 /NDF: 409500287398.3/32

Out: 0.186 $\pm$ 0.000 χ^2 /NDF: 377859009713.1/35

All: 0.156 $\pm$ 0.000 χ^2 /NDF: 787936354603.9

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 : 802982.2/15

Left: 0.008+/-0.000 χ^2/NDF : 1543631.7/32

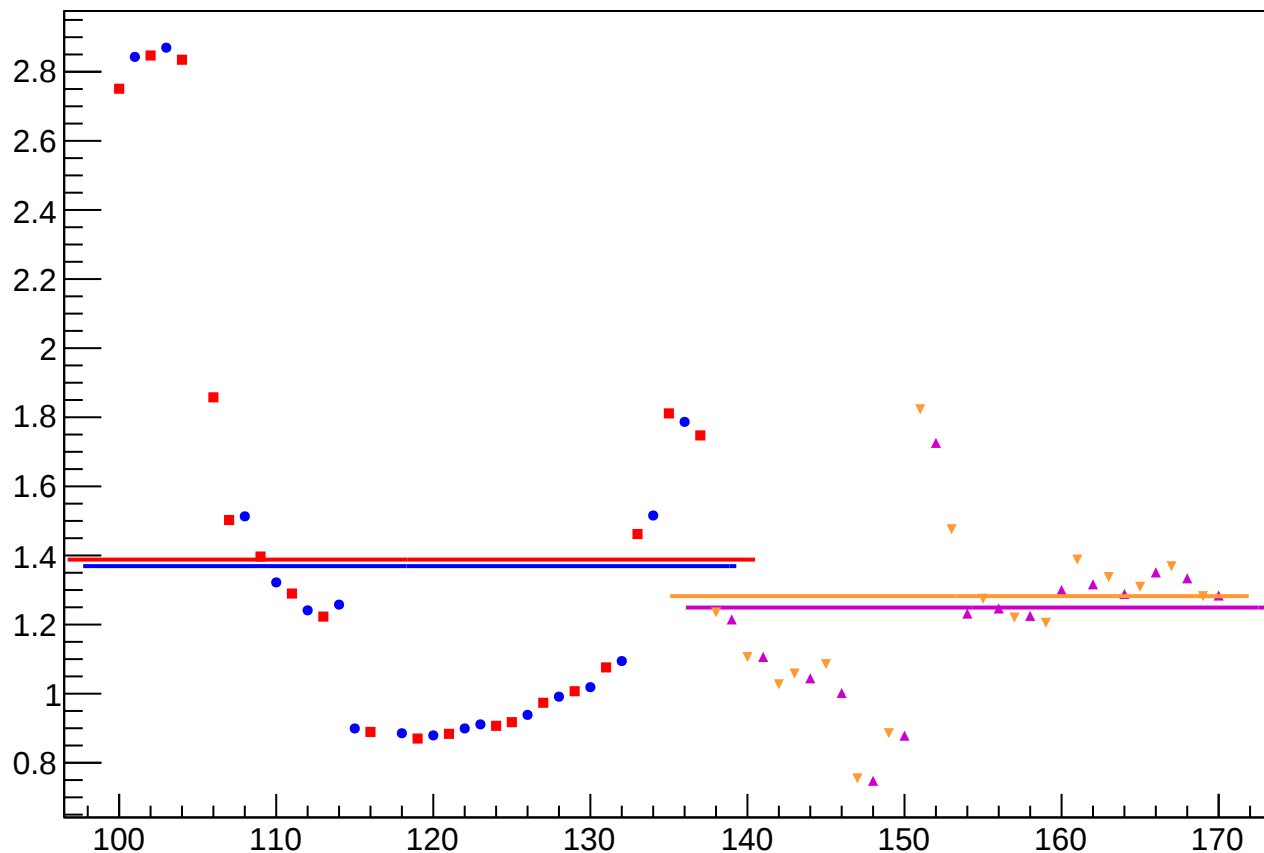
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1205712.0/32

Out: 0.008+/-0.000 χ^2/NDF : 1080385.6/35

All: 0.008+/-0.000 χ^2/NDF : 2286143.7/68

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.282+/-0.000 χ^2/NDF : 9115161837.4/16

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.249+/-0.000 χ^2/NDF : 7248145750.0/15

Left: 1.266+/-0.000 χ^2/NDF : 16459863000.4/32

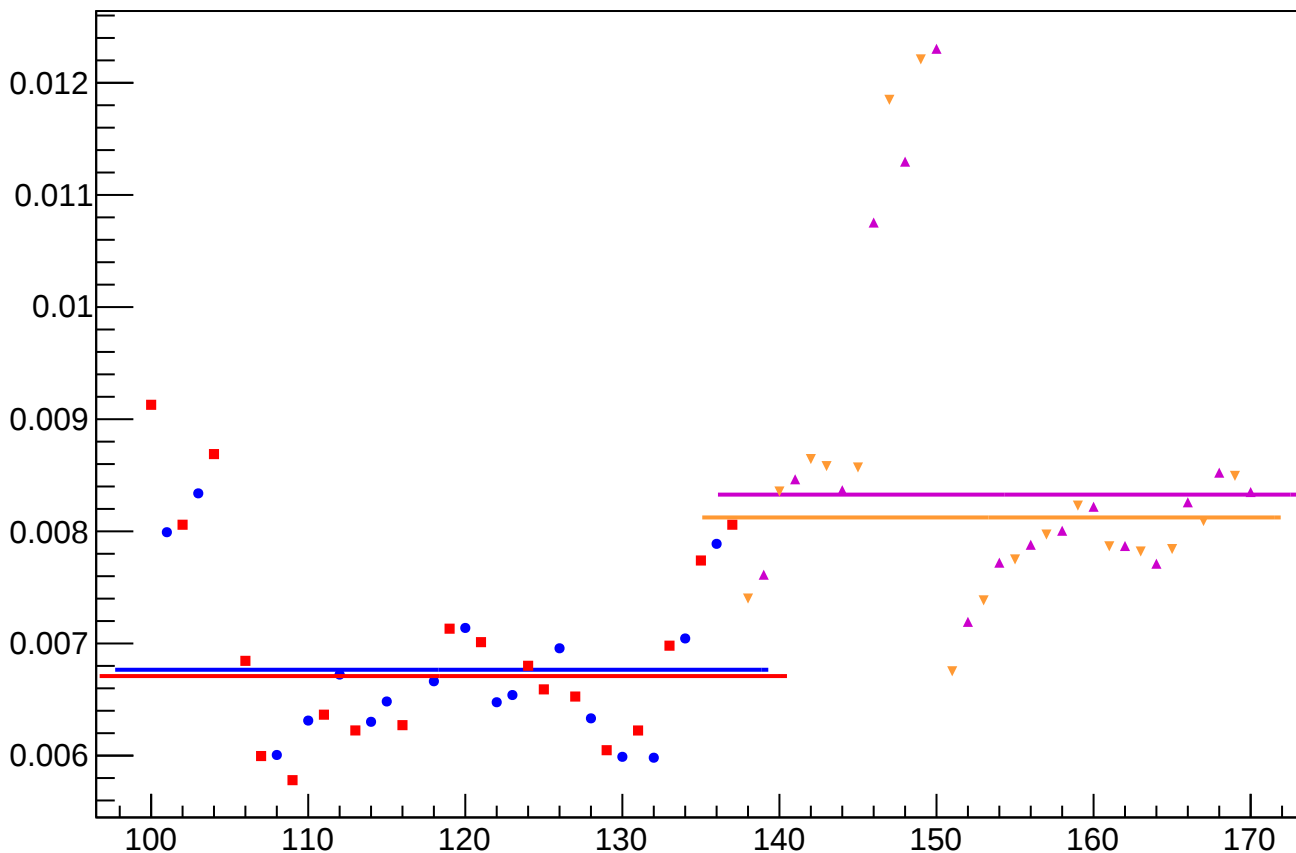
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.304+/-0.000 χ^2/NDF : 62583445318.9/32

Out: 1.331+/-0.000 χ^2/NDF : 59954175464.0/35

All: 1.318+/-0.000 χ^2/NDF : 122656663008.1

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 414279.0/16

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 428910.0/15

Left: 0.008+/-0.000 χ^2/NDF : 850535.7/32

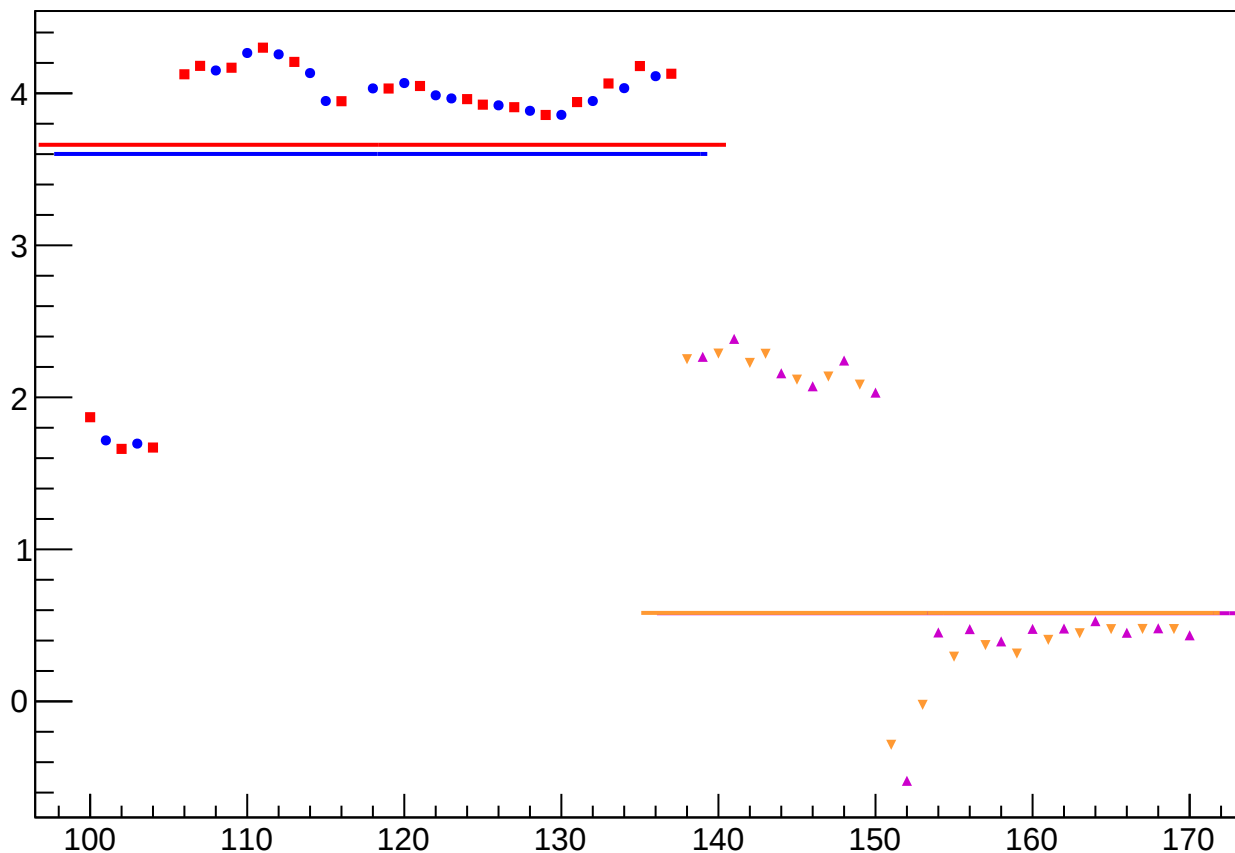
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 971853.0/32

Out: 0.007+/-0.000 χ^2/NDF : 938044.5/35

All: 0.008+/-0.000 χ^2/NDF : 1916507.5/68

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: 0.580+/-0.000 χ^2/NDF : 254551406477.2/15

Left: 0.581+/-0.000 χ^2/NDF : 512087317395.0/32

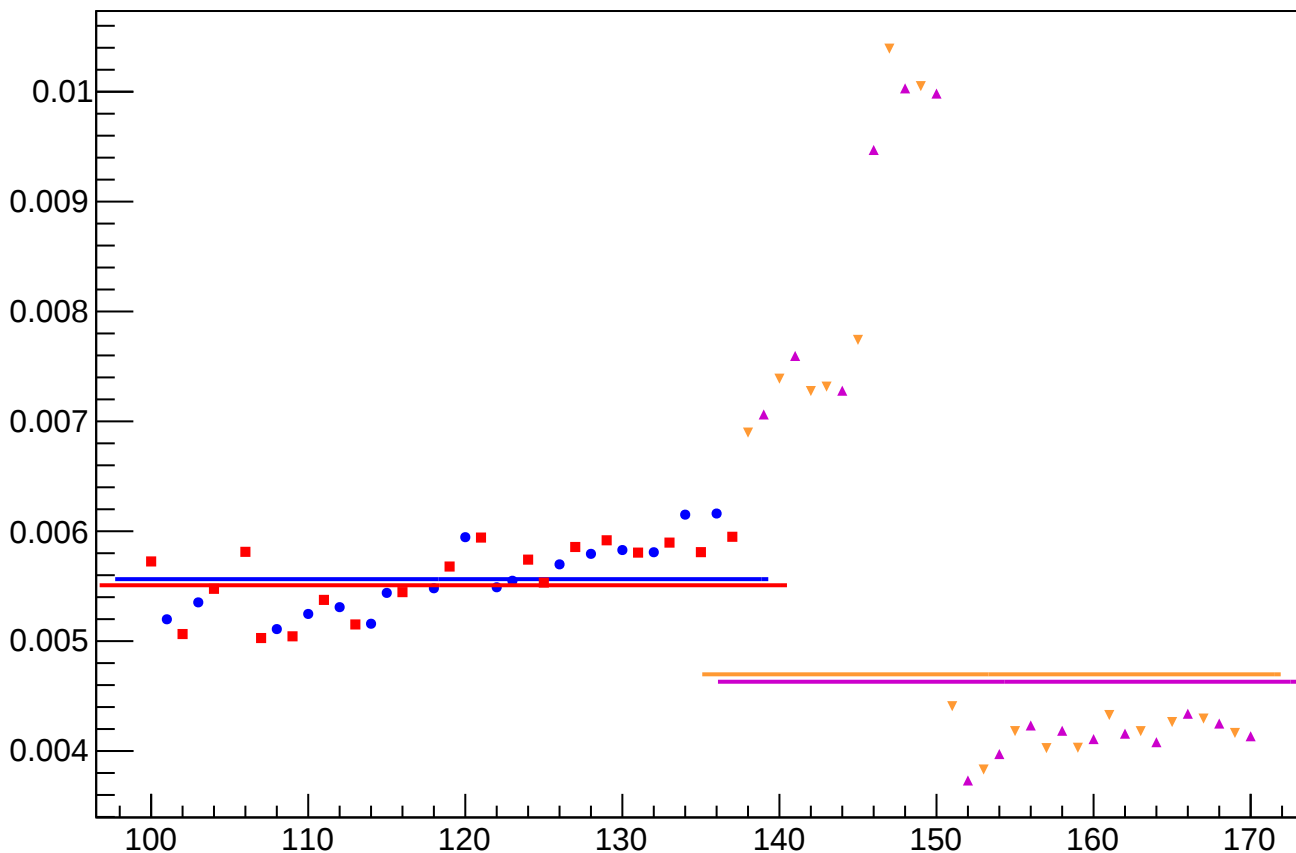
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.479+/-0.000 χ^2/NDF : 1825125670667.8/32

Out: 1.546+/-0.000 χ^2/NDF : 1943232275274.5/35

All: 1.513+/-0.000 χ^2/NDF : 3770031832868.

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 :2144964.7/15

Left: 0.005+/-0.000 χ^2/NDF : 4090730.1/32

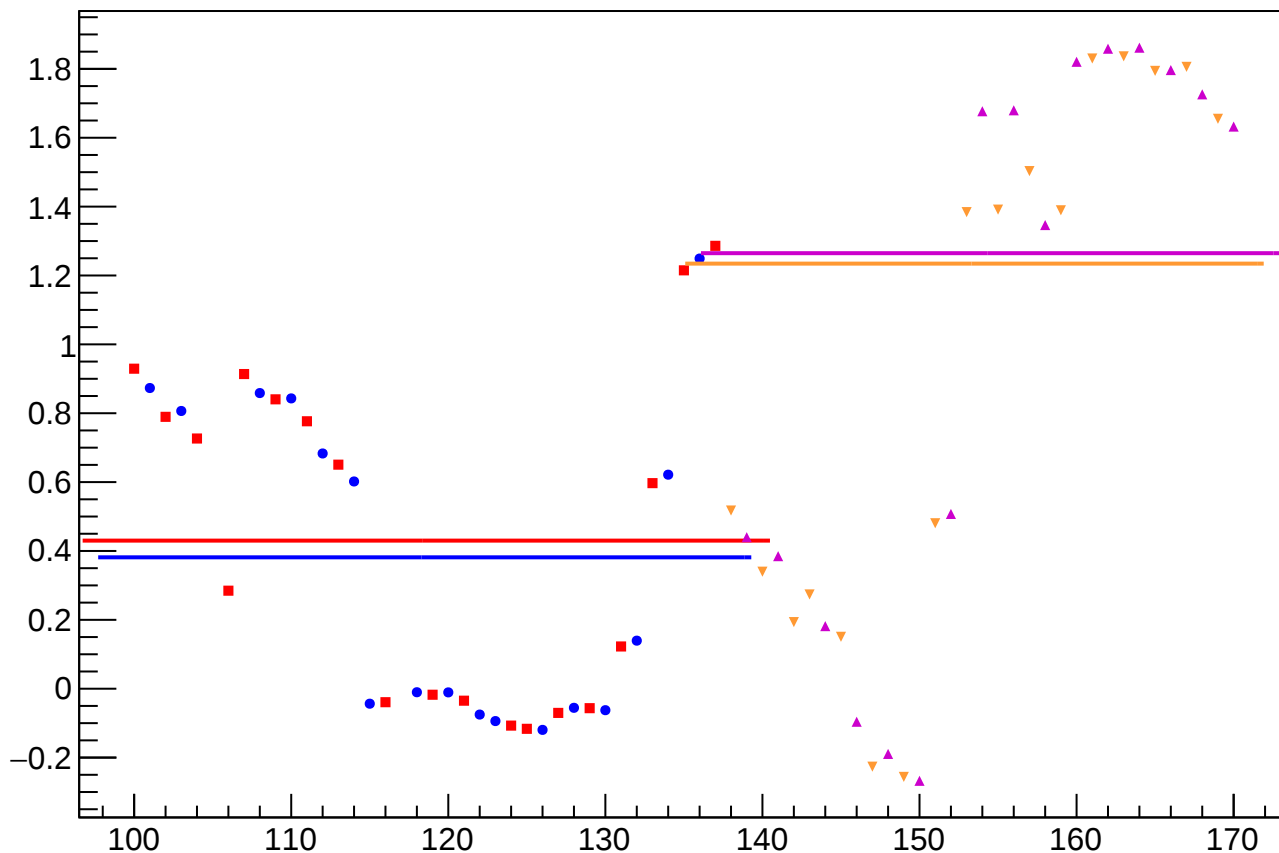
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2457028.1/32

Out: 0.005+/-0.000 χ^2/NDF :2202994.2/35

All: 0.005+/-0.000 χ^2/NDF : 4661410.0/68

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: 1.265 $\pm$ 0.000 χ^2/NDF :44941153161.6/15

Left: 1.250 $\pm$ 0.000 χ^2/NDF : 84321206076.9/32

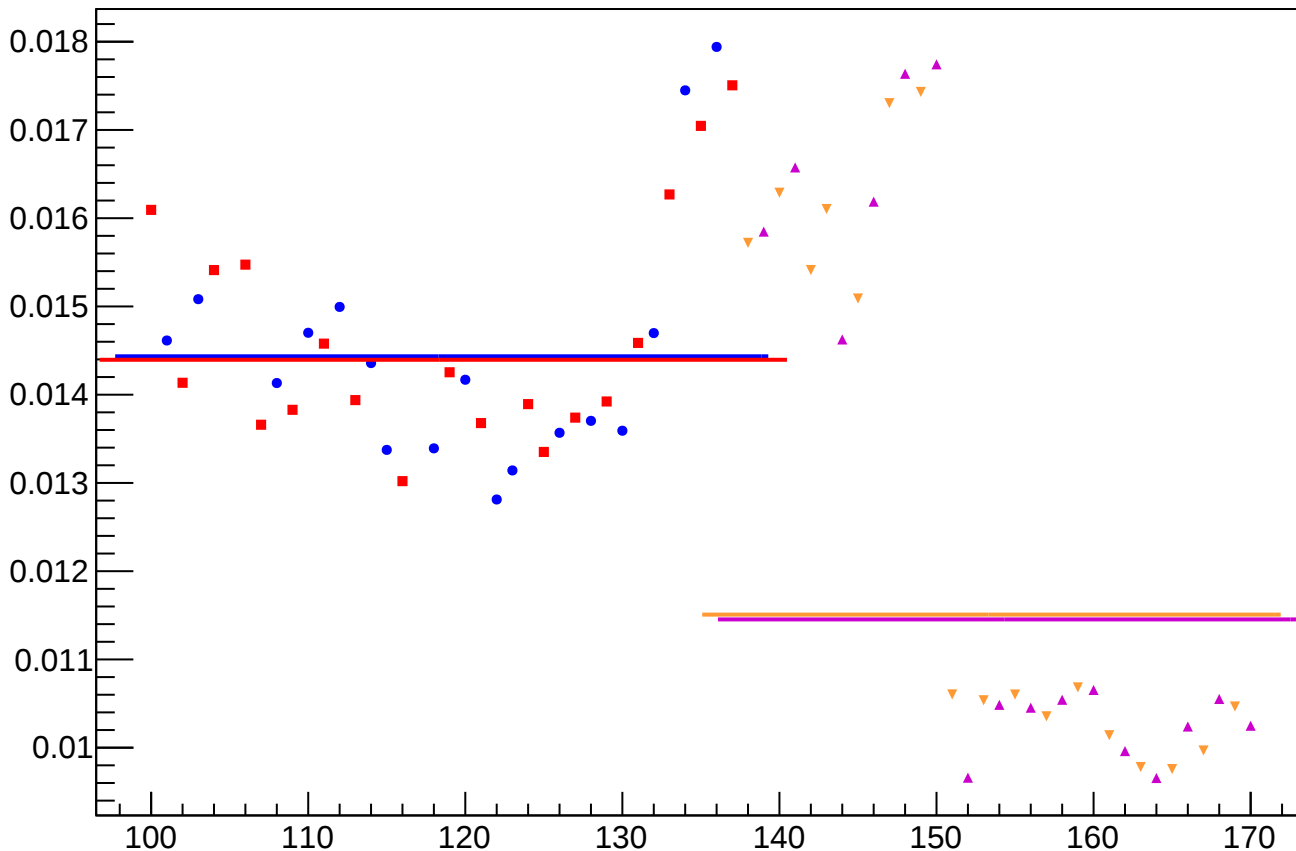
Right: 0.406 $\pm$ 0.000 χ^2/NDF : 13839390791.2/35

In: 1.034 $\pm$ 0.000 χ^2/NDF :70384893984.7/32

Out: 1.017 $\pm$ 0.000 χ^2/NDF :61822205541.1/35

All: 1.025 $\pm$ 0.000 χ^2/NDF : 132225763536.4

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: 0.011+/-0.000 χ^2/NDF :1118918.9/15

Left: 0.011+/-0.000 χ^2/NDF : 2189634.9/32

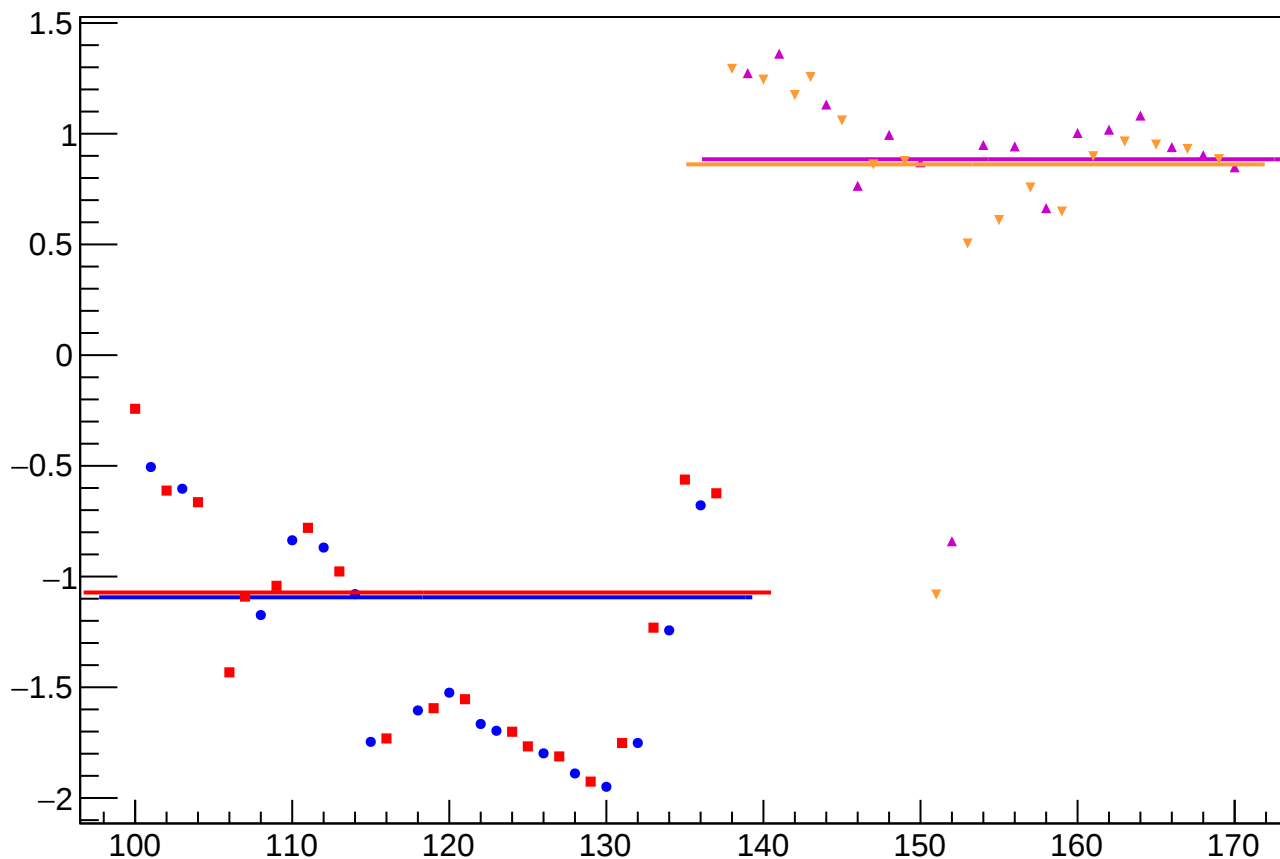
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1646639.3/32

Out: 0.012+/-0.000 χ^2/NDF :1552439.5/35

All: 0.012+/-0.000 χ^2/NDF : 3199486.5/68

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: 0.885 ± 0.000 $\chi^2/\text{NDF}: 145801423883.0/15$

Left: 0.873 ± 0.000 $\chi^2/\text{NDF}: 270818134614.0/32$

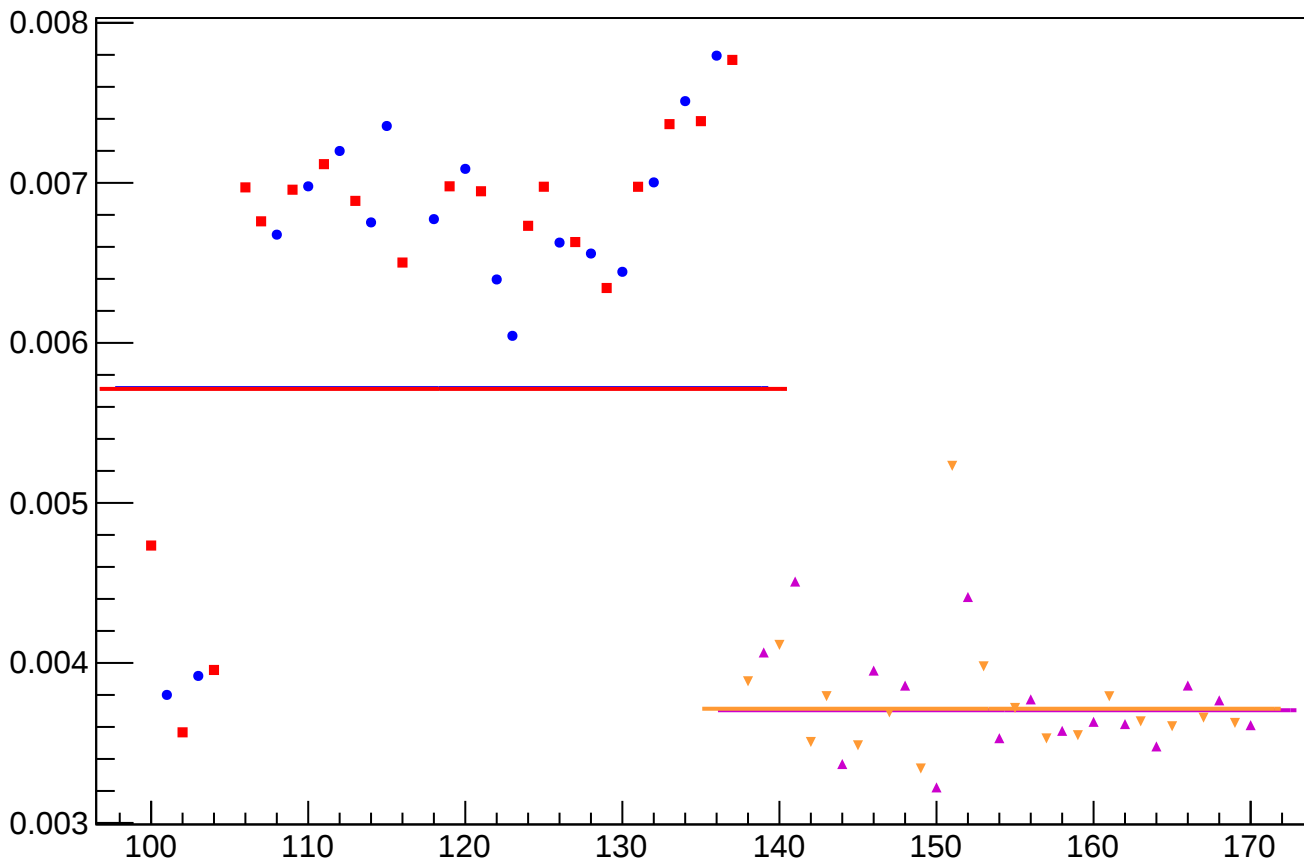
Right: -1.083 ± 0.000 $\chi^2/\text{NDF}: 102900070258.1/35$

In: 0.525 ± 0.000 $\chi^2/\text{NDF}: 783283883367.0/32$

Out: 0.501 ± 0.000 $\chi^2/\text{NDF}: 746022873744.8/35$

All: 0.513 ± 0.000 $\chi^2/\text{NDF}: 1529586409764.0/70$

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 :171823.9/15

Left: 0.004+/-0.000 χ^2/NDF : 334135.9/32

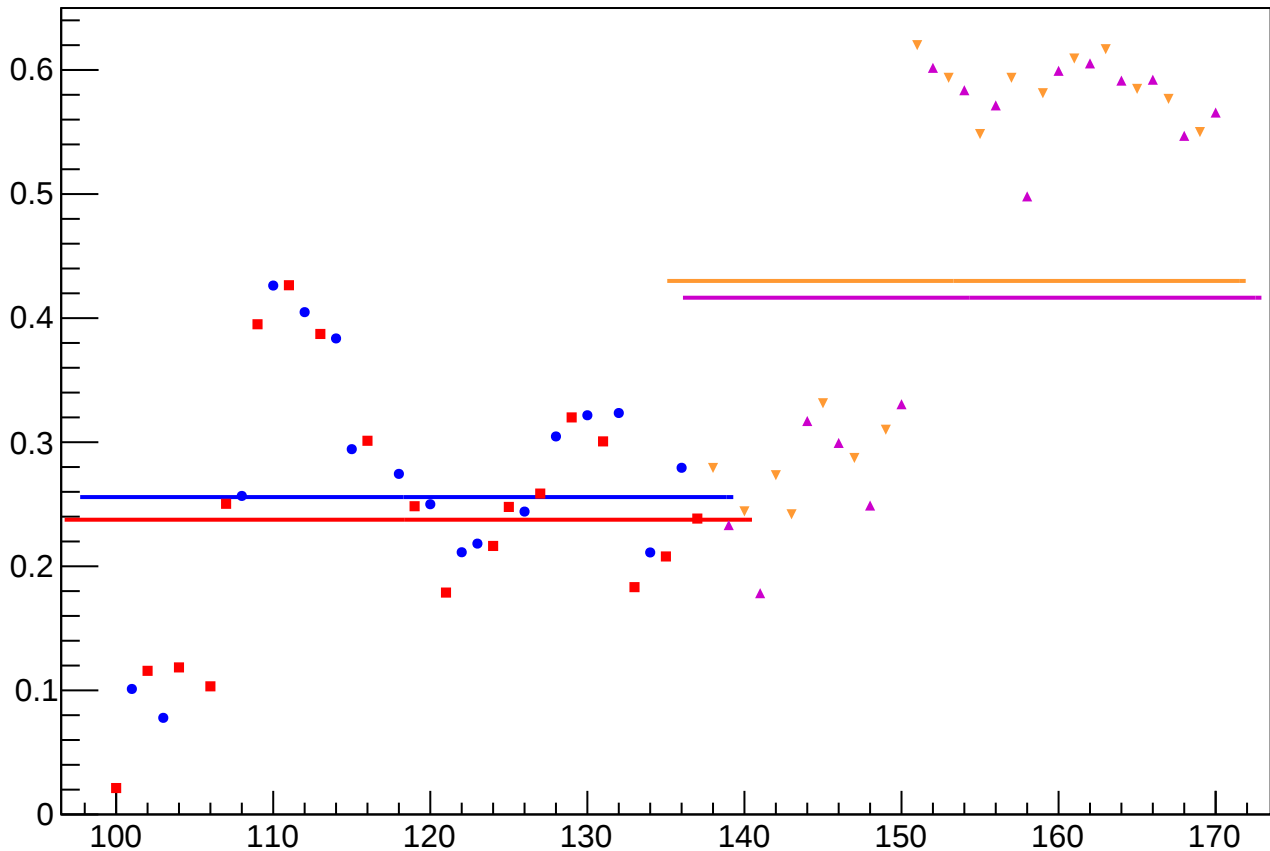
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2213939.3/32

Out: 0.004+/-0.000 χ^2/NDF :2313550.9/35

All: 0.004+/-0.000 χ^2/NDF : 4527741.4/68

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: 0.416+/-0.000 χ^2/NDF : 80224182862.2/15

Left: 0.423+/-0.000 χ^2/NDF : 163164261033.0/32

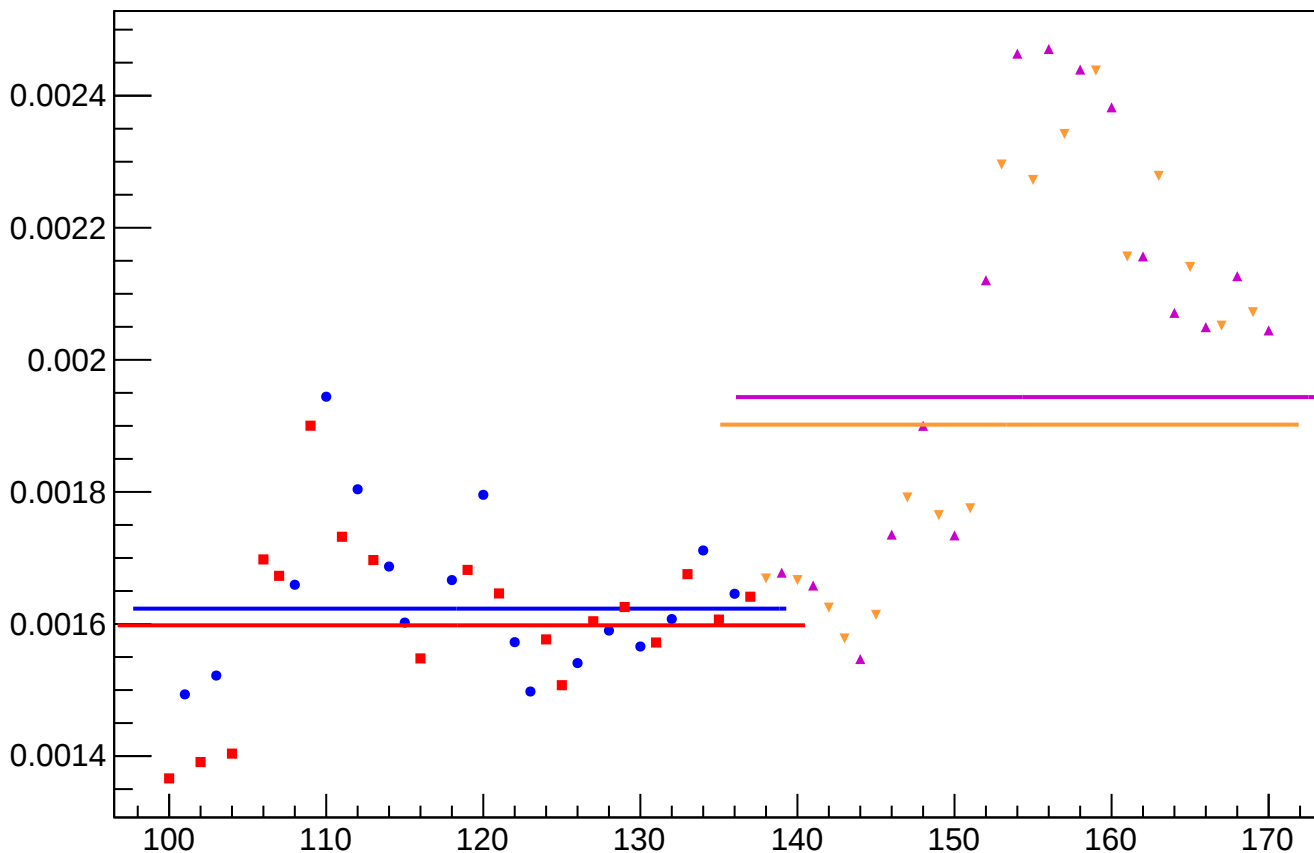
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.346+/-0.000 χ^2/NDF : 137219186001.2/32

Out: 0.344+/-0.000 χ^2/NDF : 164653896597.7/35

All: 0.345+/-0.000 χ^2/NDF : 301886694045.0

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 : 557404.7/15

Left: 0.002+/-0.000 χ^2/NDF : 1092374.1/32

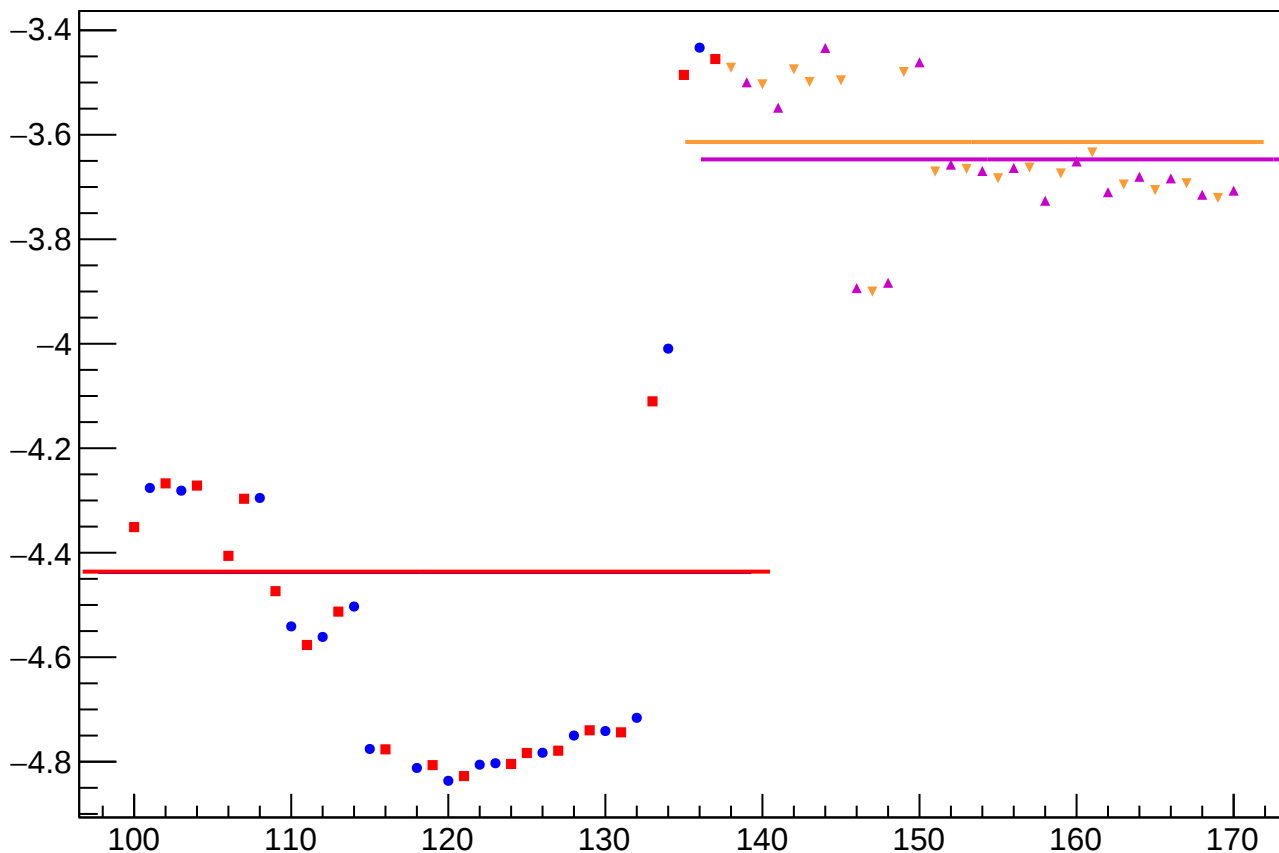
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 893121.6/32

Out: 0.002+/-0.000 χ^2/NDF : 898997.1/35

All: 0.002+/-0.000 χ^2/NDF : 1800330.2/68

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: -3.647 $\pm$ 0.000 χ^2 /NDF: 44782213007.4/15

Left: -3.630 $\pm$ 0.000 χ^2 /NDF: 82368098717.2/32

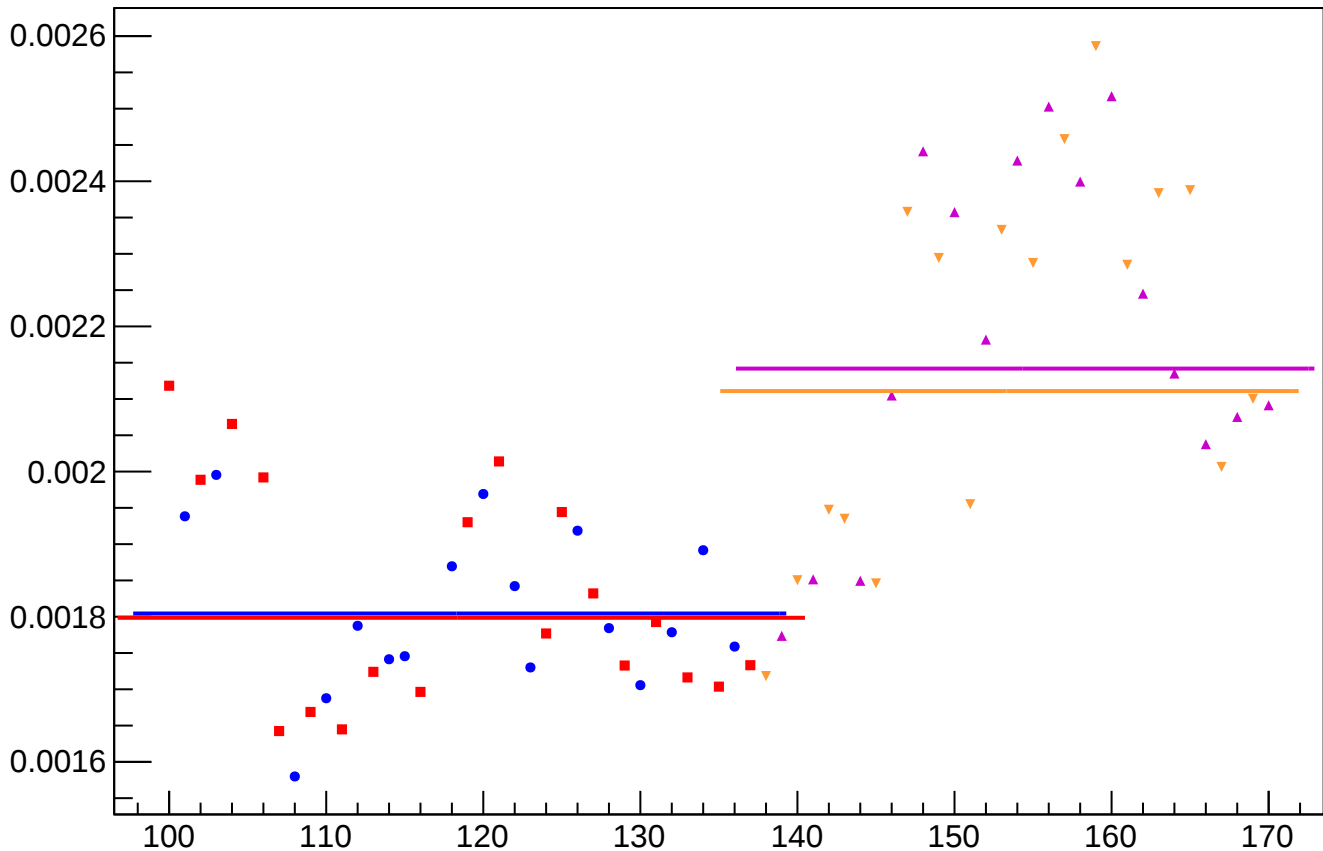
Right: -4.437 $\pm$ 0.000 χ^2 /NDF: 717996921060.6/35

In: -3.988 $\pm$ 0.000 χ^2 /NDF: 1146800224201.4/32

Out: -3.973 $\pm$ 0.000 χ^2 /NDF: 1169736054153.9/35

All: -3.980 $\pm$ 0.000 χ^2 /NDF: 2317025738102

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 :296276.2/15

Left: 0.002+/-0.000 χ^2/NDF : 641576.3/32

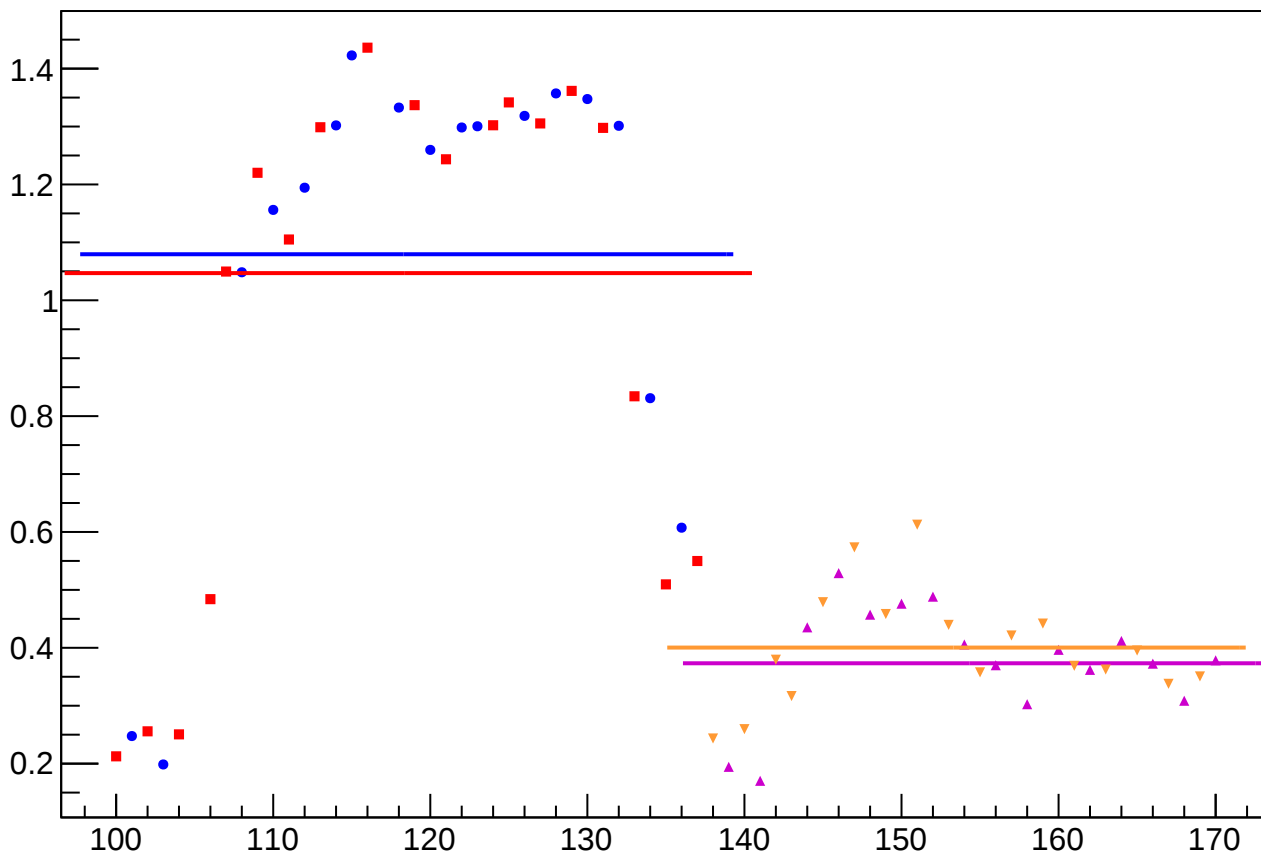
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :604269.9/32

Out: 0.002+/-0.000 χ^2/NDF :657076.0/35

All: 0.002+/-0.000 χ^2/NDF : 1263649.0/68

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:1087979538.9/15

Left: 0.387 $\pm$ 0.000 χ^2 /NDF: 2425933528.5/32

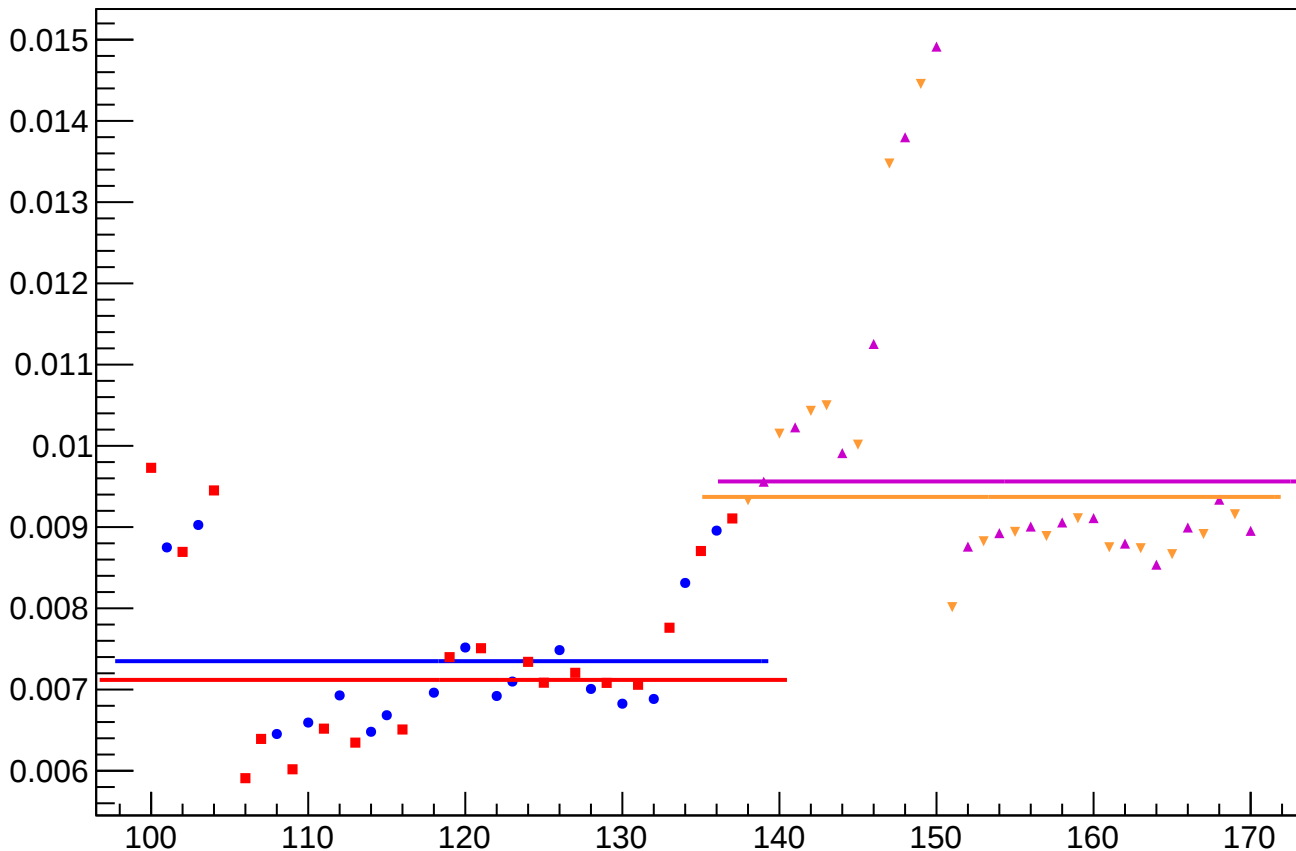
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.712 $\pm$ 0.000 χ^2 /NDF:50397637306.6/32

Out: 0.720 $\pm$ 0.000 χ^2 /NDF:50053068807.5/35

All: 0.716 $\pm$ 0.000 χ^2 /NDF: 100460372064.7

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 : 496603.9/15

Left: 0.009+/-0.000 χ^2/NDF : 972631.0/32

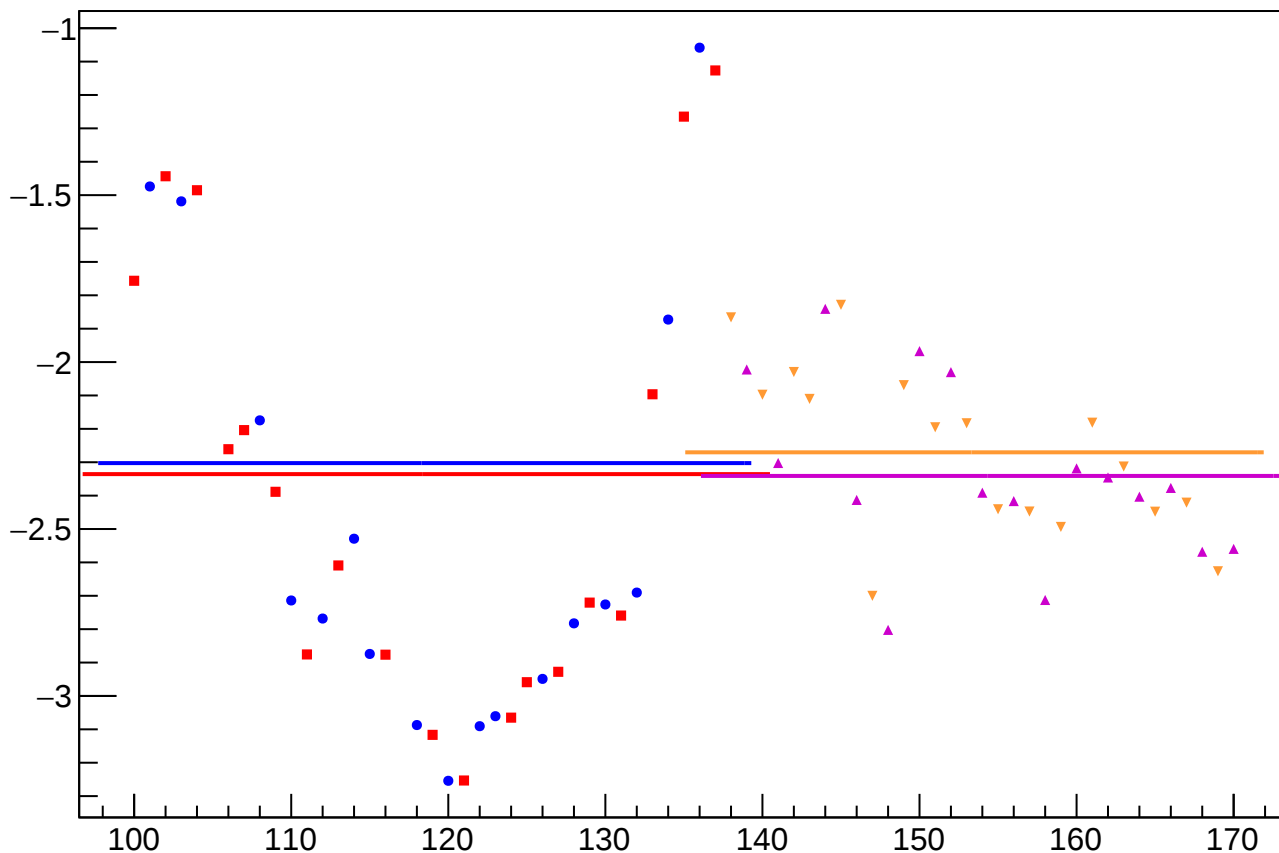
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1301128.3/32

Out: 0.008+/-0.000 χ^2/NDF : 1436214.5/35

All: 0.008+/-0.000 χ^2/NDF : 2753275.7/68

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: -2.341+/-0.000 χ^2/NDF : 9826755733.7/15

Left: -2.305+/-0.000 χ^2/NDF : 19384659230.2/32

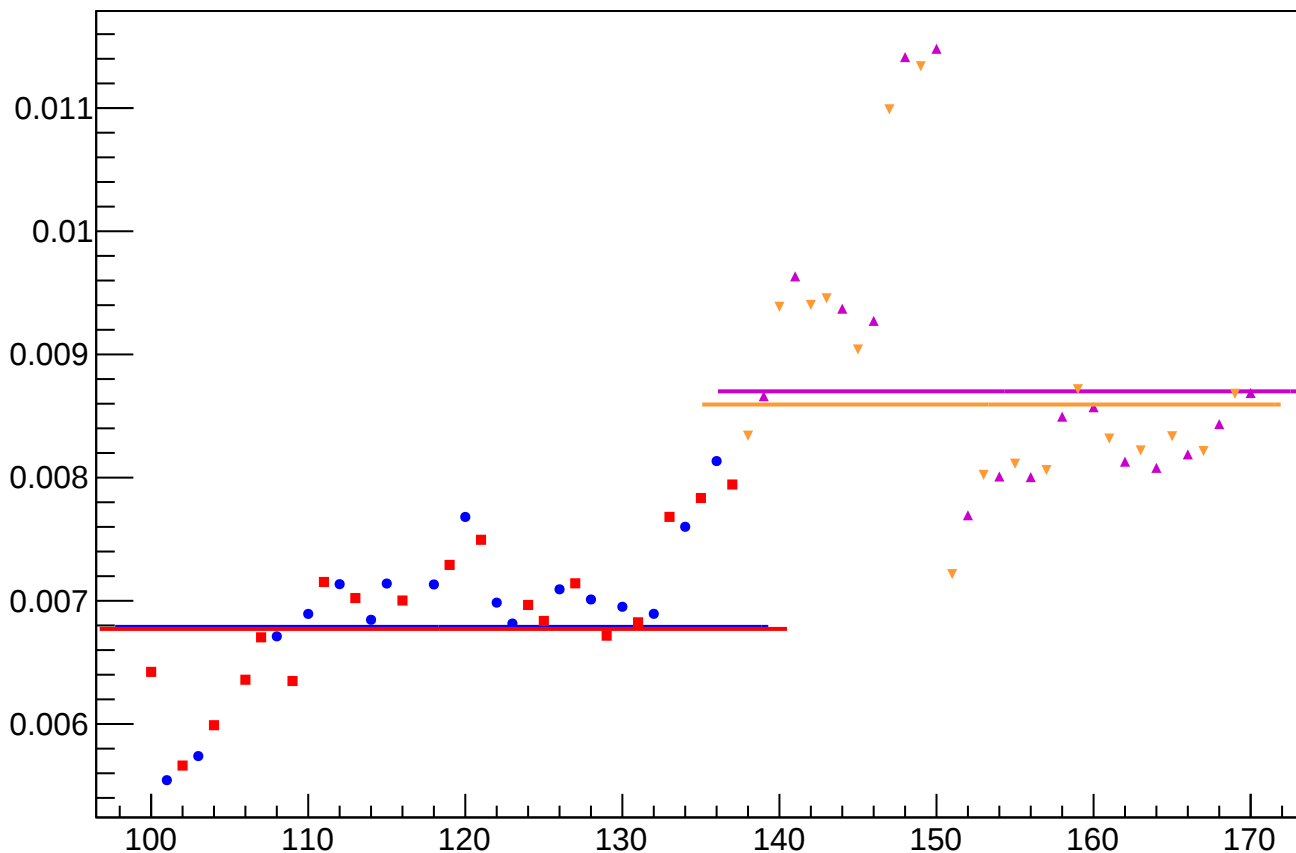
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.323+/-0.000 χ^2/NDF : 83695416282.9/32

Out: -2.301+/-0.000 χ^2/NDF : 73986316901.8/35

All: -2.312+/-0.000 χ^2/NDF : 157754483862.9

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 289813.5/16

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 297035.9/15

Left: 0.009+/-0.000 χ^2/NDF : 588742.5/32

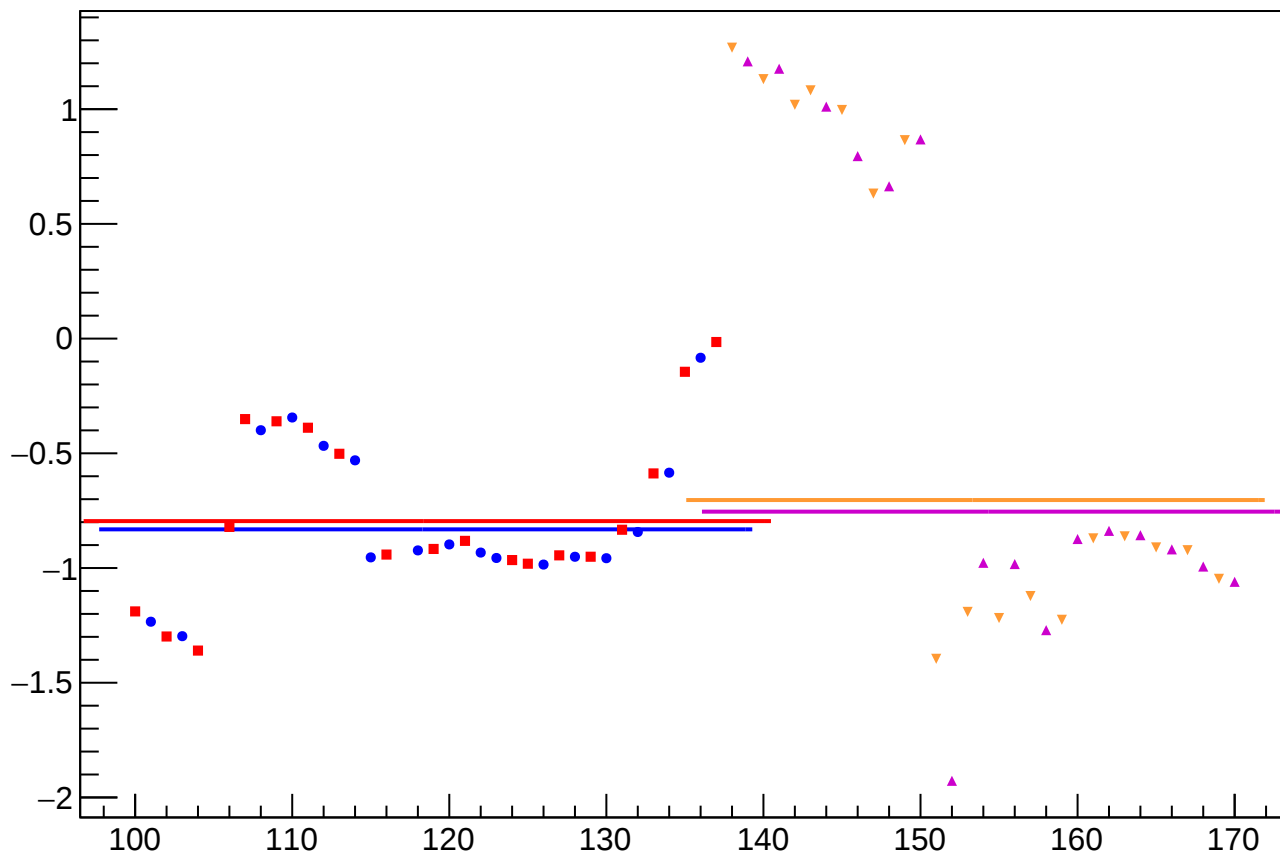
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1020491.8/32

Out: 0.008+/-0.000 χ^2/NDF : 947493.9/35

All: 0.008+/-0.000 χ^2/NDF : 1969828.9/68

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000 χ^2/NDF : 6692170860.9/16

Left Out: -0.704+/-0.000 χ^2/NDF : 113999899504.2/16

Right Out: -0.796+/-0.000 χ^2/NDF : 7821744046.6/18

Left In: -0.754+/-0.000 χ^2/NDF : 121406288168.4/15

Left: -0.729+/-0.000 χ^2/NDF : 235628468007.3/32

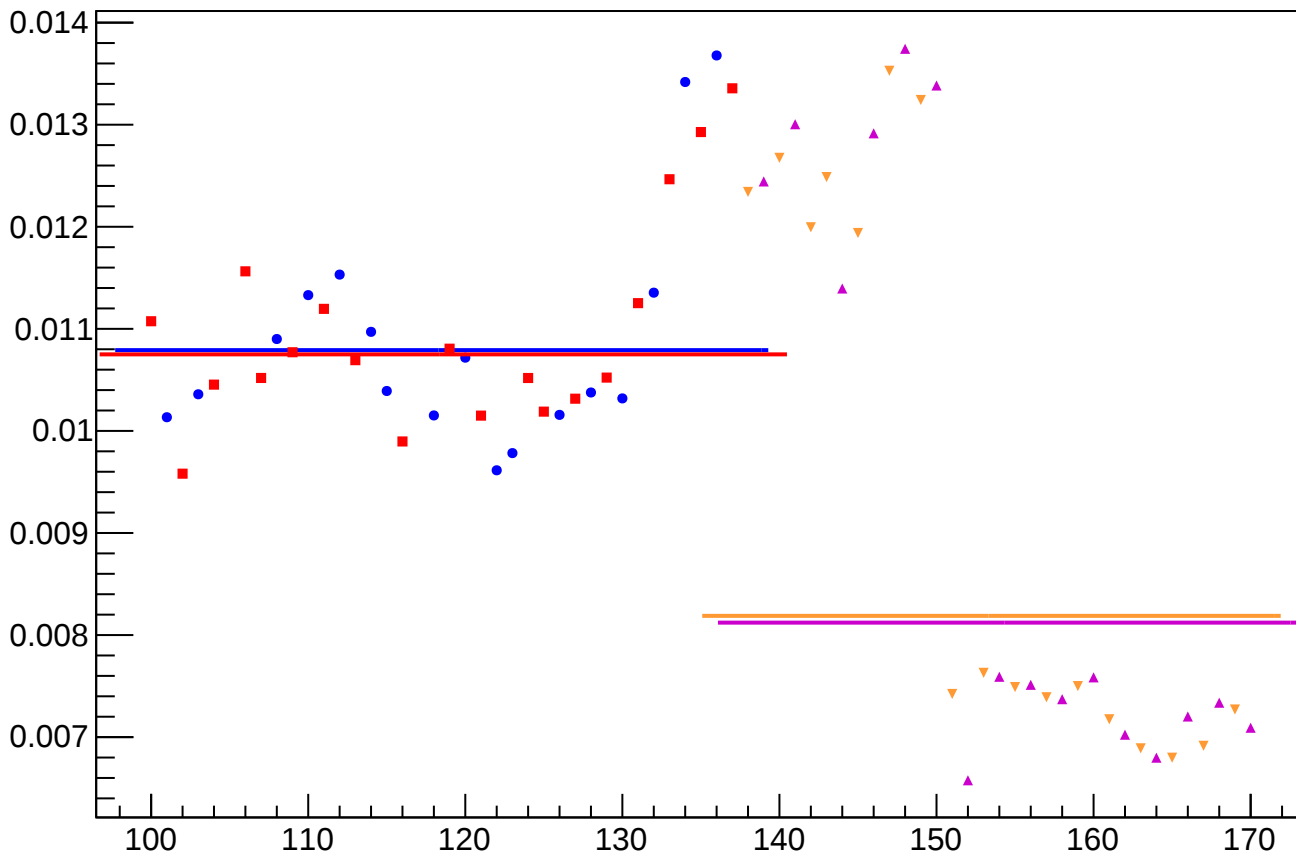
Right: -0.813+/-0.000 χ^2/NDF : 14551426152.3/35

In: -0.773+/-0.000 χ^2/NDF : 128352142138.8/32

Out: -0.727+/-0.000 χ^2/NDF : 122195918223.7/35

All: -0.750+/-0.000 χ^2/NDF : 250793495261.1

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 :1553742.8/15

Left: 0.008+/-0.000 χ^2/NDF : 3044394.1/32

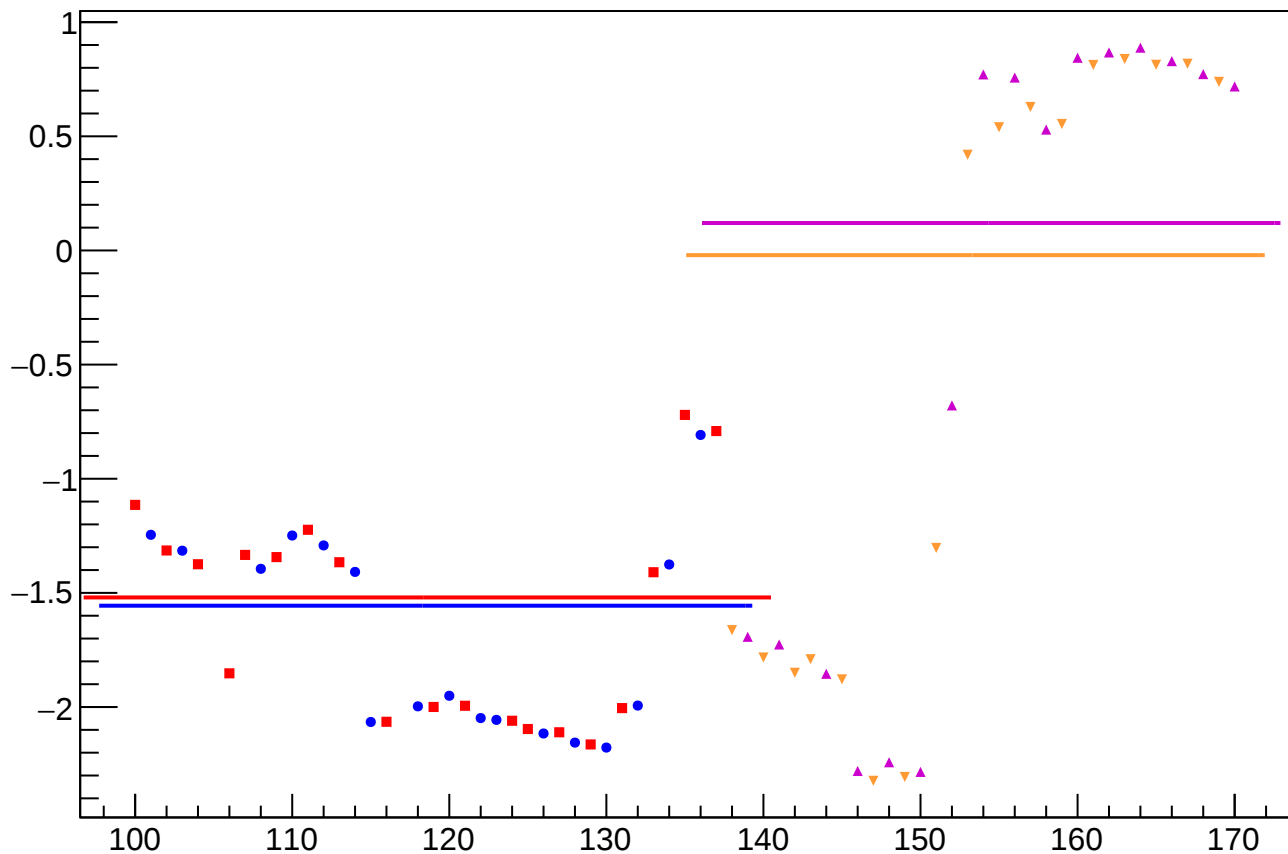
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2286685.1/32

Out: 0.009+/-0.000 χ^2/NDF :2162972.0/35

All: 0.009+/-0.000 χ^2/NDF : 4450707.9/68

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: 0.120+/-0.000 χ^2/NDF : 2036536729356.3/15

Left: 0.050+/-0.000 χ^2/NDF : 4204741369119.2/32

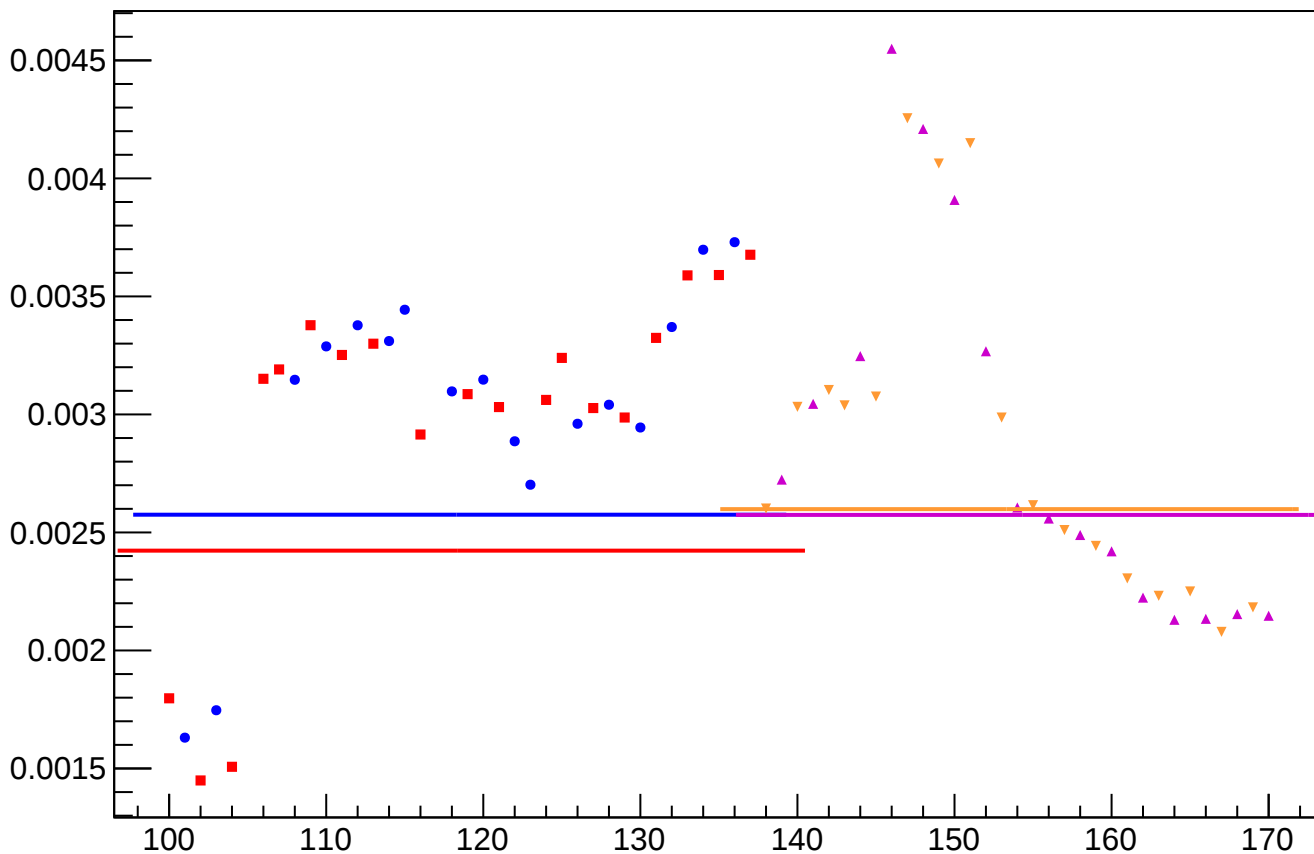
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.461+/-0.000 χ^2/NDF : 3758569961306.6/32

Out: -0.582+/-0.000 χ^2/NDF : 3648697033015.5/35

All: -0.523+/-0.000 χ^2/NDF : 7425878020099

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 : 973210.2/15

Left: 0.003+/-0.000 χ^2/NDF : 1849106.6/32

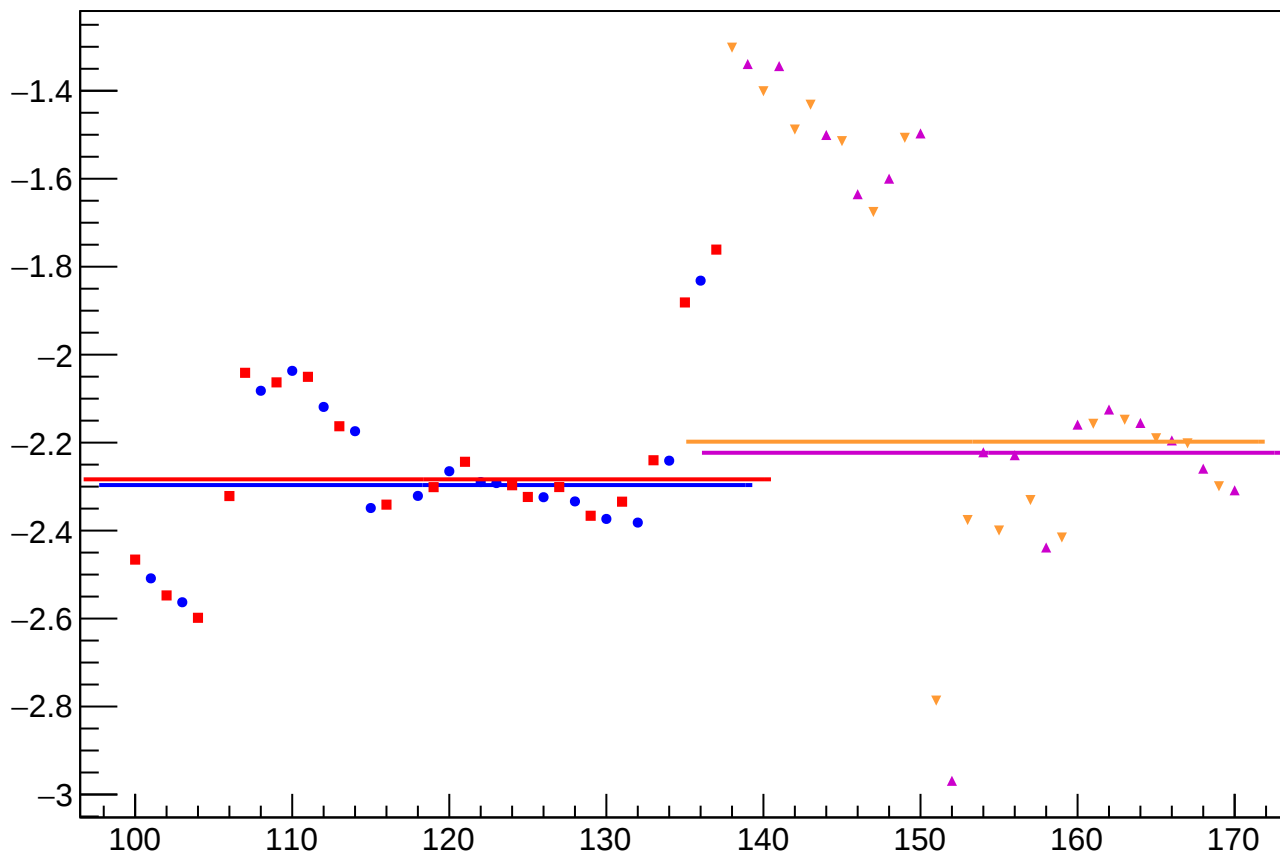
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF : 1987044.9/32

Out: 0.003+/-0.000 χ^2/NDF : 2402420.3/35

All: 0.003+/-0.000 χ^2/NDF : 4393854.7/68

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5782980938.4/16

Left: -2.211+/-0.000

χ^2/NDF : 118326427845.6/32

Left Out: -2.198+/-0.000

χ^2/NDF : 51486982677.7/16

Right: -2.290+/-0.000

χ^2/NDF : 12344935761.7/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6548716896.9/18

In: -2.241+/-0.000

χ^2/NDF : 73091609260.0/32

Out: -2.220+/-0.000

χ^2/NDF : 58903392067.2/35

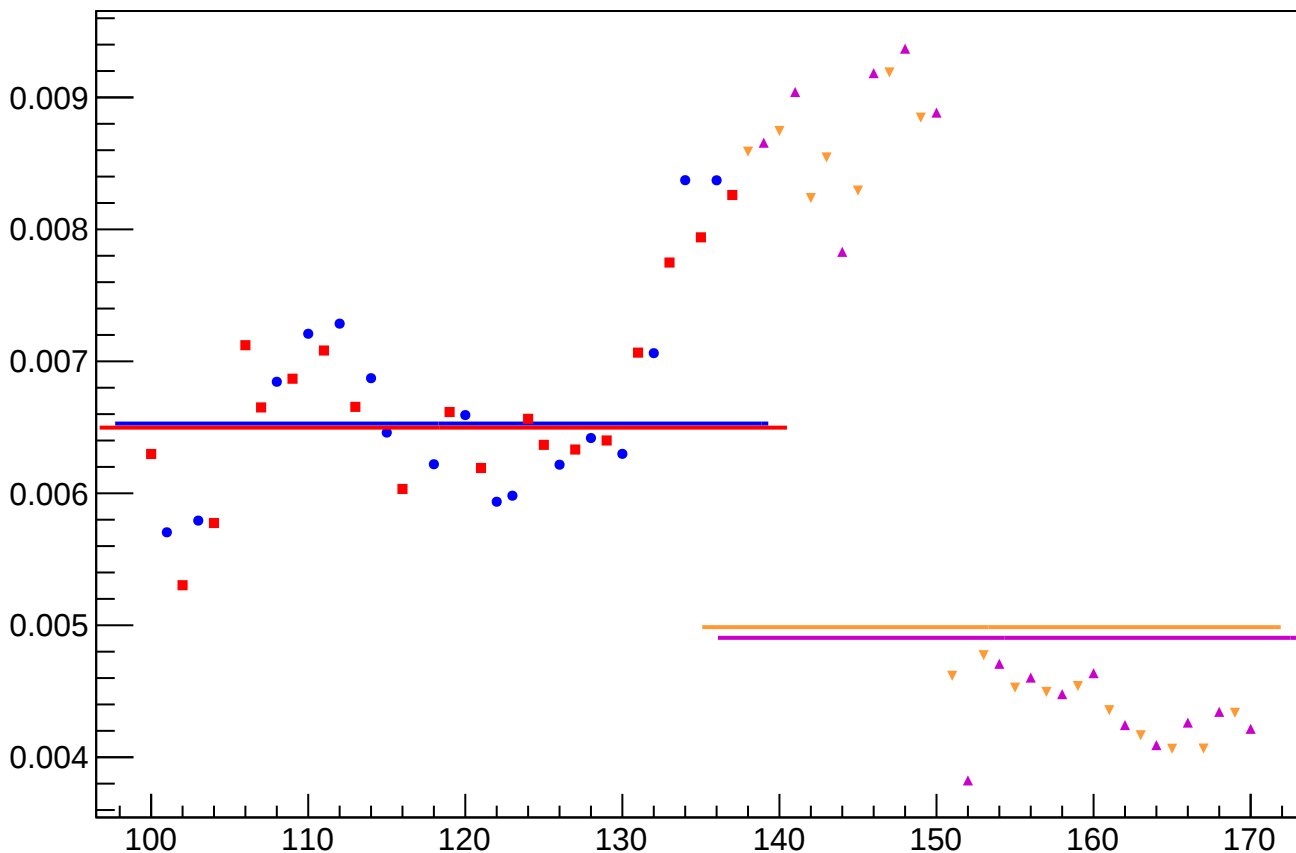
Left In: -2.223+/-0.000

χ^2/NDF : 66695344128.3/15

All: -2.231+/-0.000

χ^2/NDF : 132129516698.7

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 :2145282.7/15

Left: 0.005+/-0.000 χ^2/NDF : 4189283.7/32

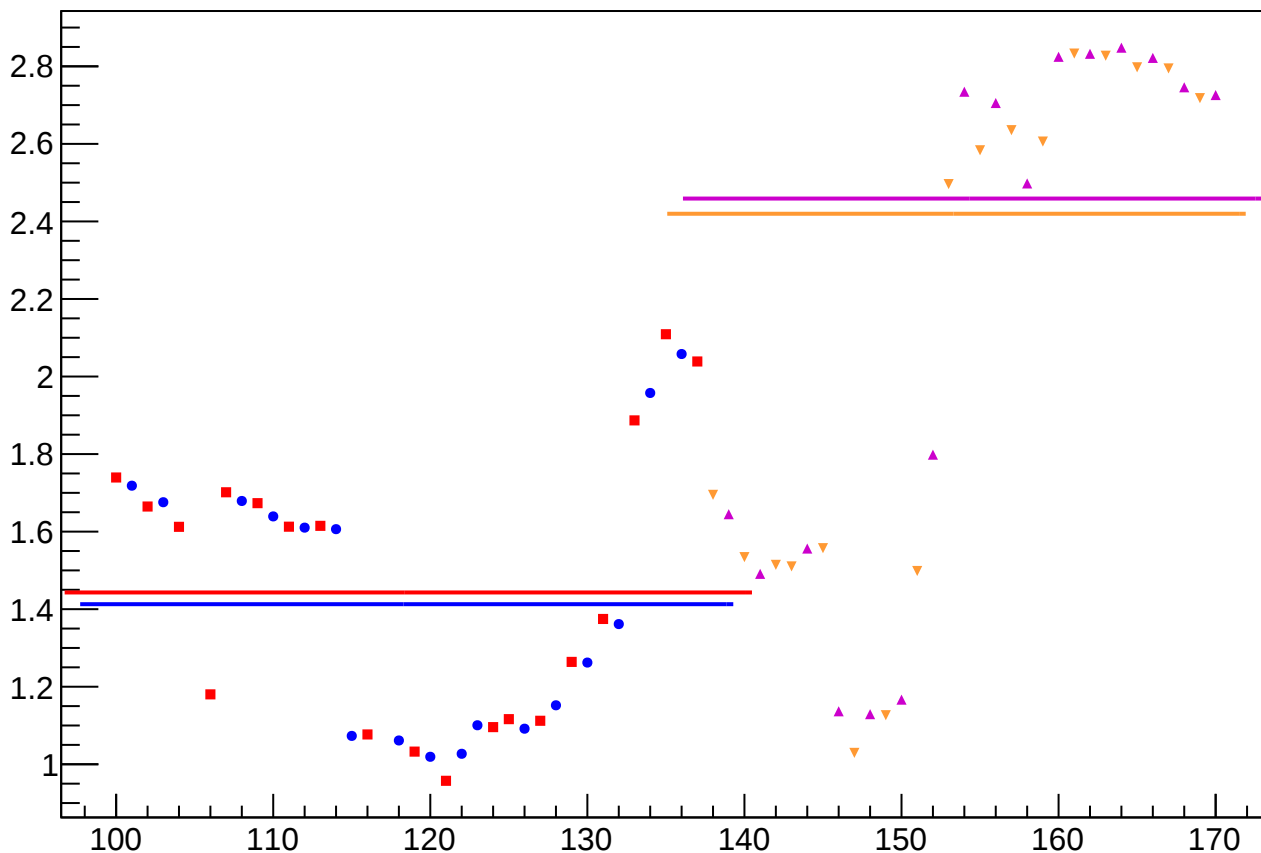
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :2921905.1/32

Out: 0.005+/-0.000 χ^2/NDF :2746340.2/35

All: 0.005+/-0.000 χ^2/NDF : 5671536.1/68

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: 2.459+/-0.000 χ^2/NDF : 230753557951.5/15

Left: 2.439+/-0.000 χ^2/NDF : 461144544992.6/32

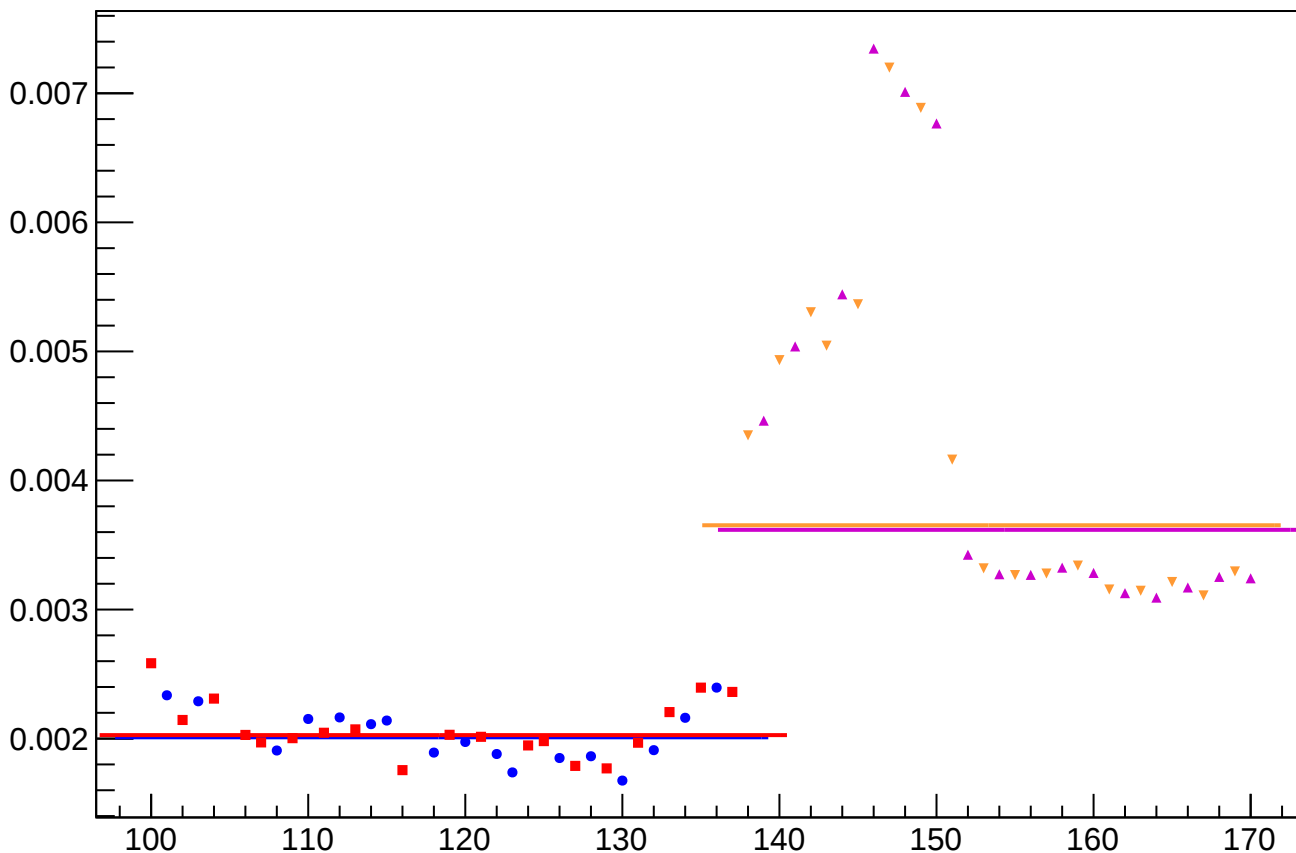
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.782+/-0.000 χ^2/NDF : 992730197412.1/32

Out: 1.781+/-0.000 χ^2/NDF : 923950454324.5/35

All: 1.781+/-0.000 χ^2/NDF : 1916681394003.

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 :1465791.5/15

Left: 0.004+/-0.000 χ^2/NDF : 2741289.1/32

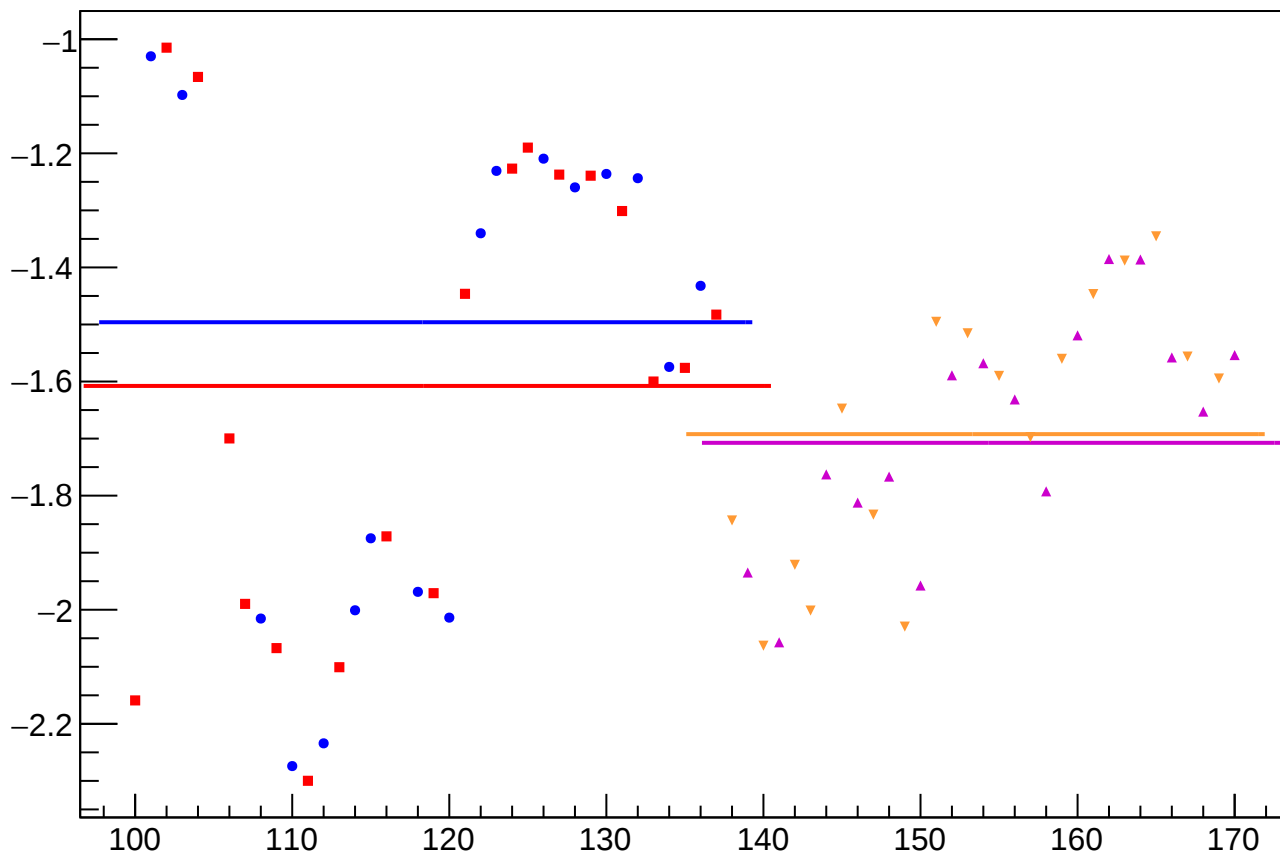
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4401764.7/32

Out: 0.003+/-0.000 χ^2/NDF :4265725.8/35

All: 0.003+/-0.000 χ^2/NDF : 8667868.7/68

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: -1.707+/-0.000 χ^2/NDF : 11240422481.5/15

Left: -1.700+/-0.000 χ^2/NDF : 26949794327.6/32

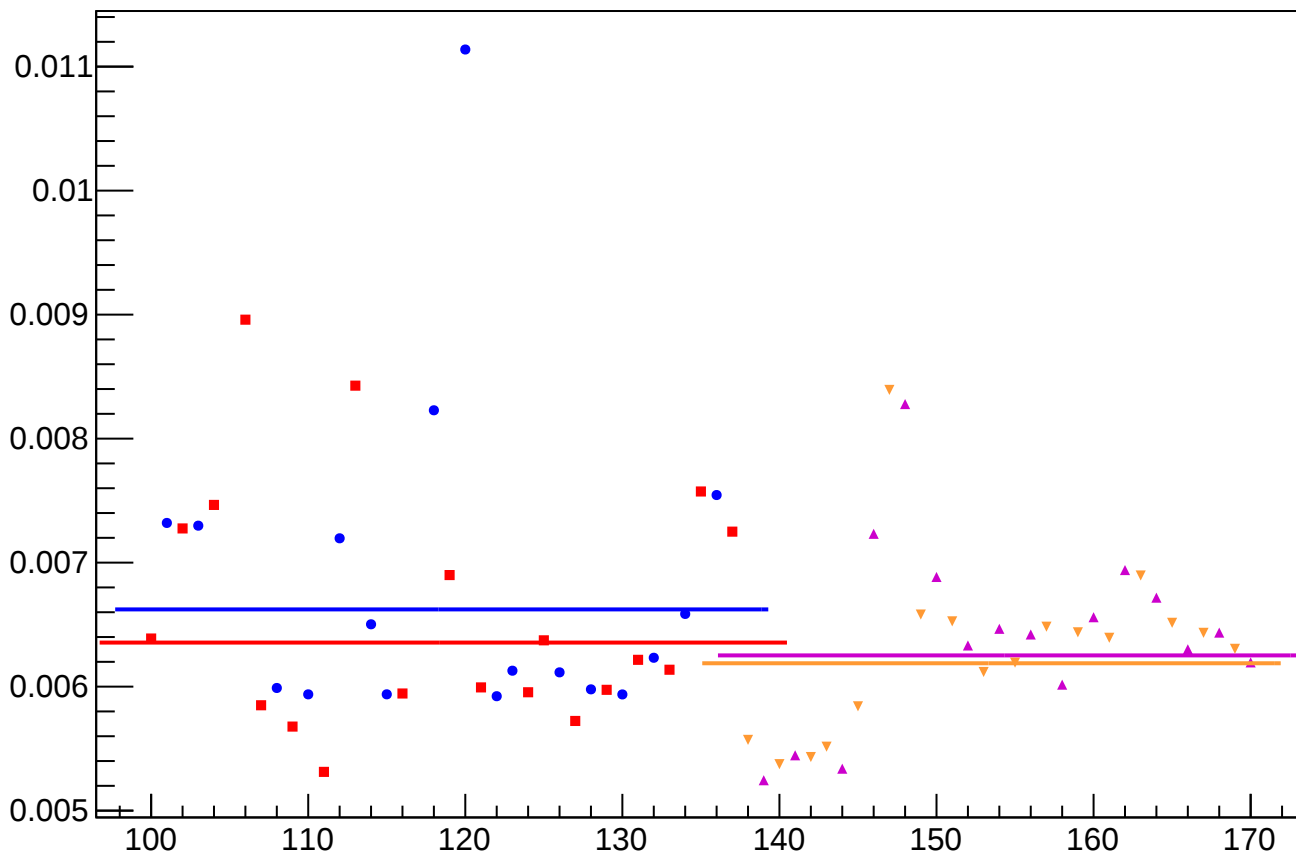
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.640+/-0.000 χ^2/NDF : 38000413302.5/32

Out: -1.663+/-0.000 χ^2/NDF : 44274740569.5/35

All: -1.652+/-0.000 χ^2/NDF : 82393554471.7/70

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :226434.4/16

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :288417.0/15

Left: 0.006+/-0.000 χ^2/NDF : 516077.0/32

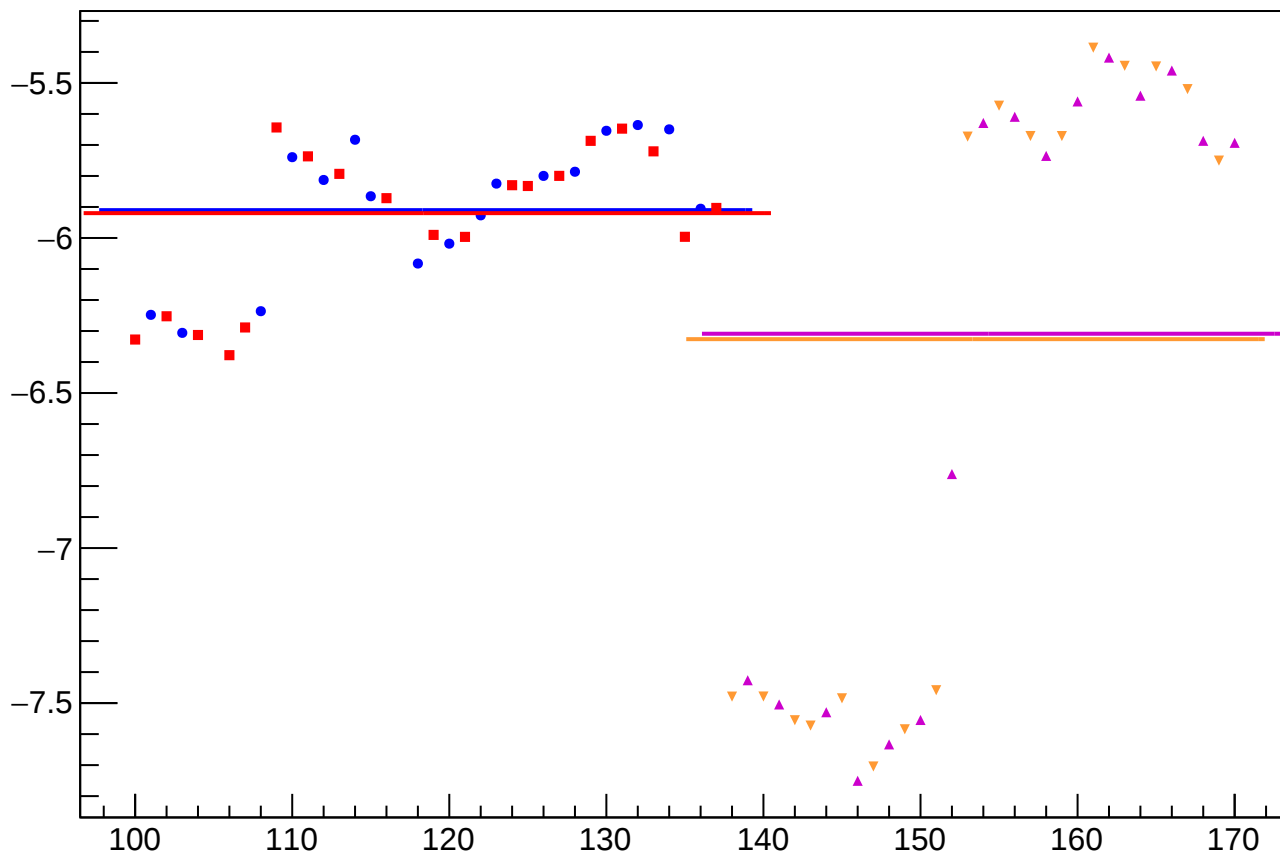
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :547124.6/32

Out: 0.006+/-0.000 χ^2/NDF :460254.3/35

All: 0.006+/-0.000 χ^2/NDF : 1014350.6/68

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: -6.309+/-0.000 χ^2/NDF : 138469915116.6/15

Left: -6.318+/-0.000 χ^2/NDF : 301516612530.0/32

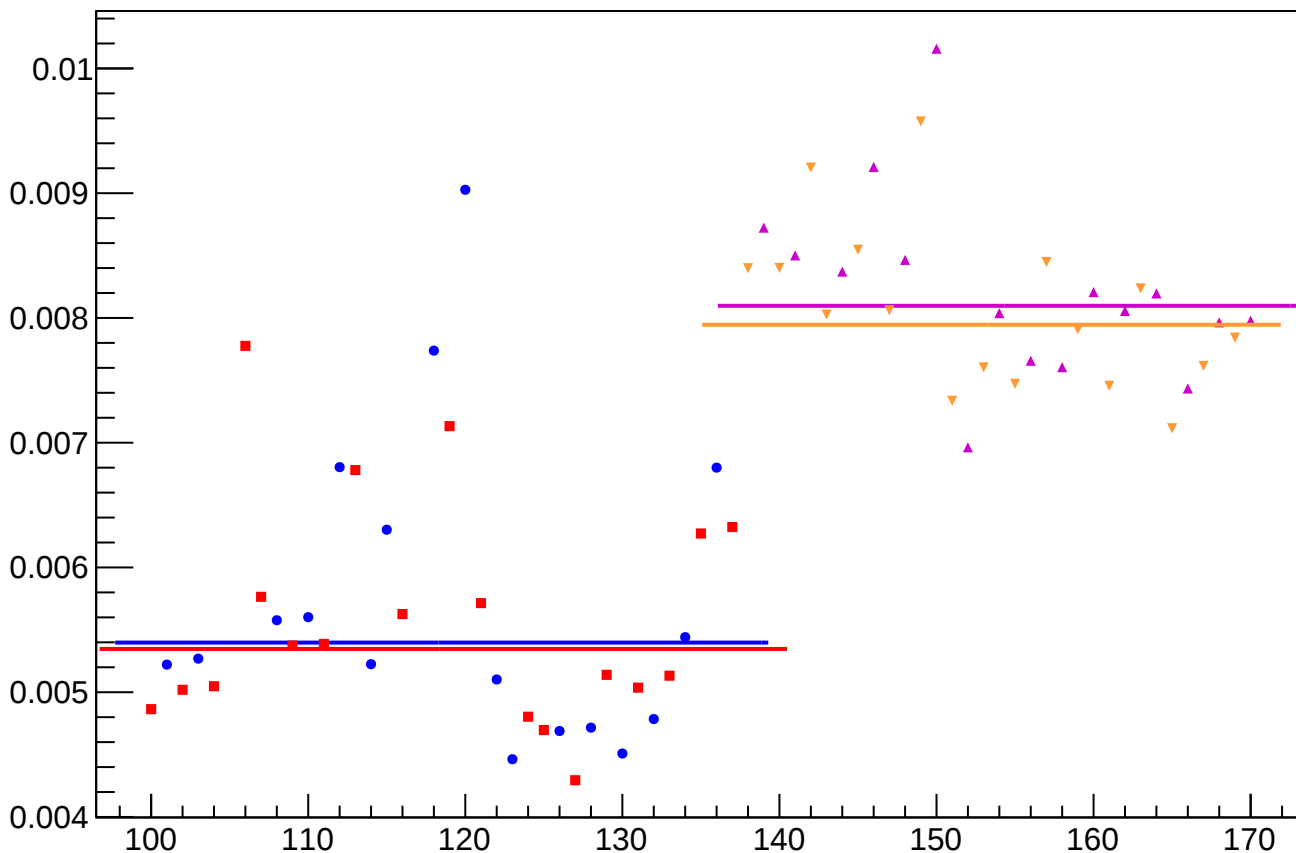
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.092+/-0.000 χ^2/NDF : 164330447162.1/32

Out: -6.099+/-0.000 χ^2/NDF : 192052443854.3/35

All: -6.096+/-0.000 χ^2/NDF : 356393051378.2

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 :151912.0/15

Left: 0.008+/-0.000 χ^2/NDF : 271633.5/32

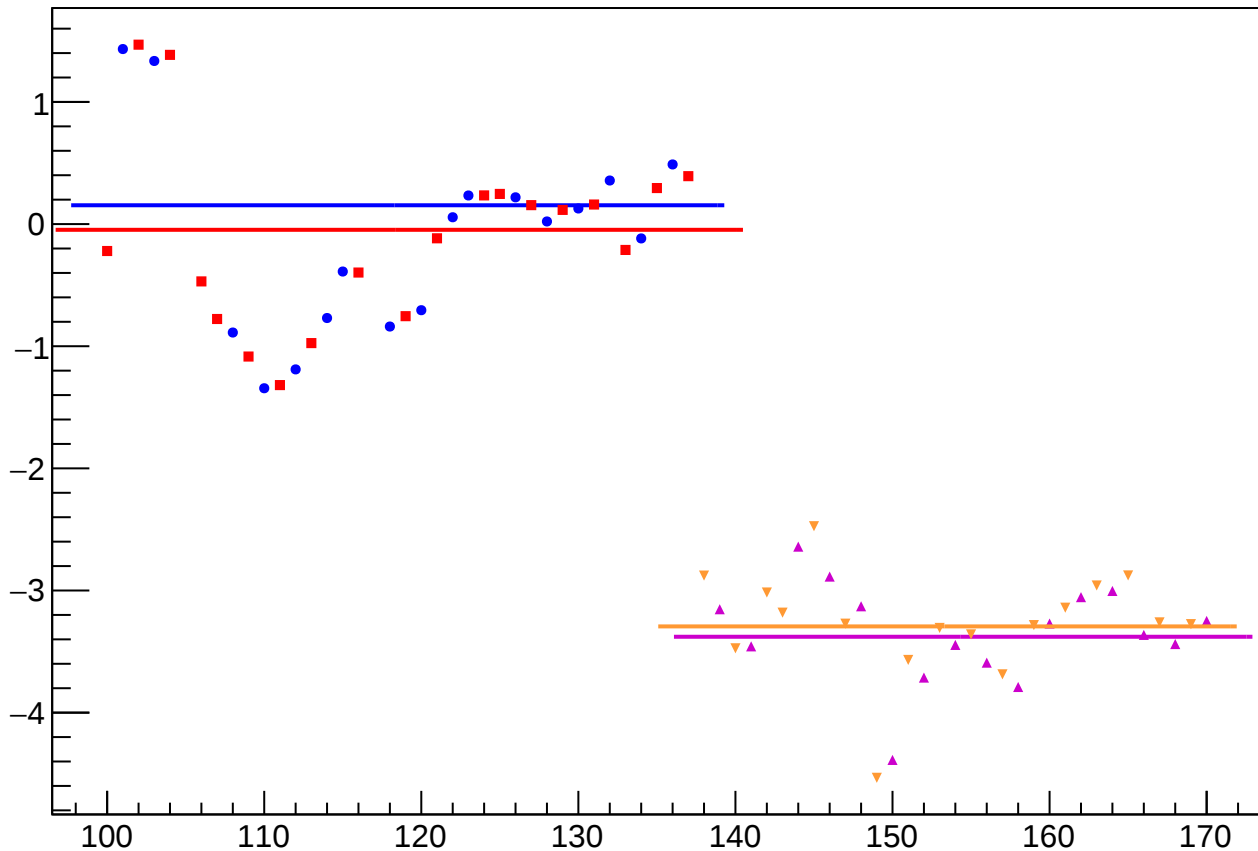
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1872510.4/32

Out: 0.006+/-0.000 χ^2/NDF :1693728.9/35

All: 0.007+/-0.000 χ^2/NDF : 3573278.6/68

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: -3.379+/-0.000 χ^2/NDF : 6924468619.6/15

Left: -3.336+/-0.000 χ^2/NDF : 15027058009.8/32

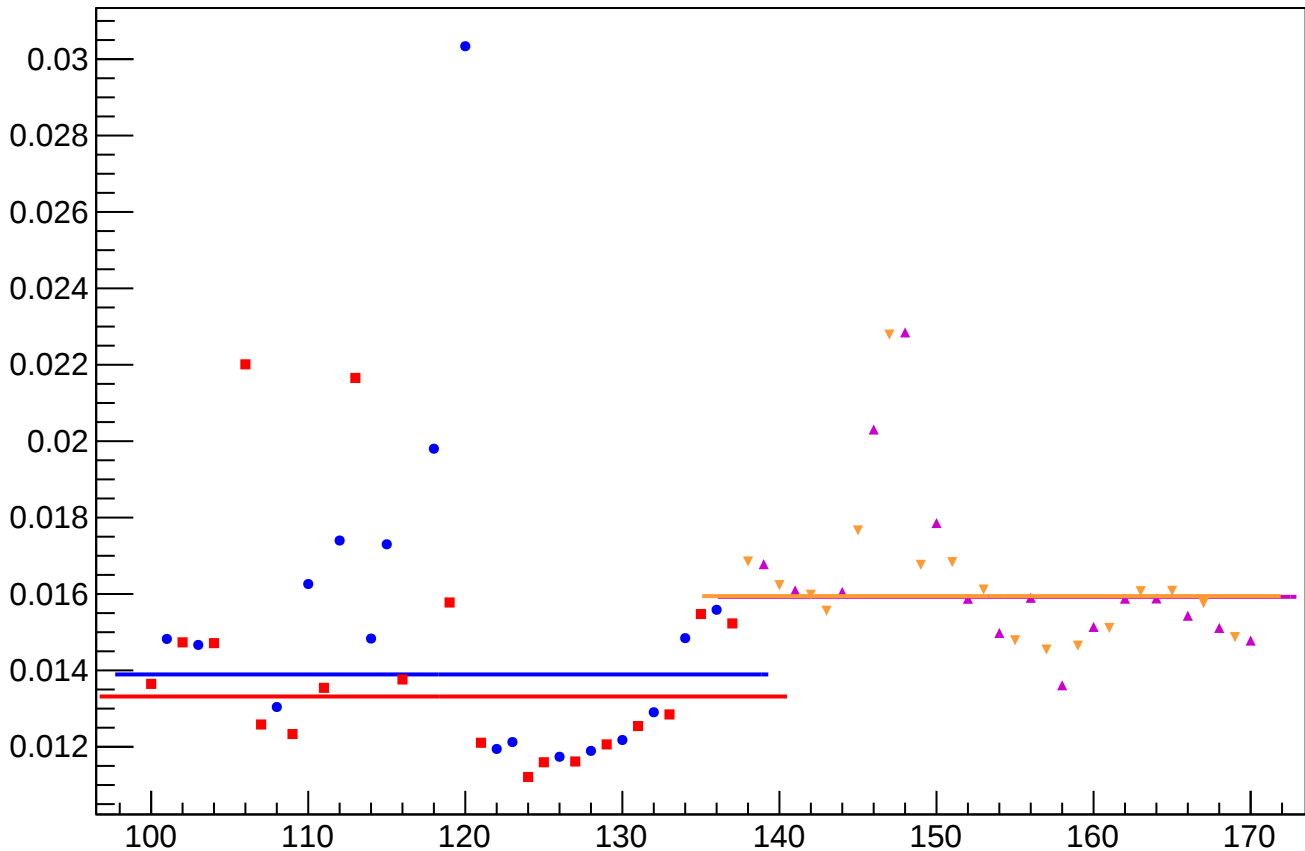
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.976+/-0.000 χ^2/NDF : 254734345326.8/32

Out: -1.883+/-0.000 χ^2/NDF : 246322155118.4/35

All: -1.928+/-0.000 χ^2/NDF : 501404732000.9

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 :293630.9/15

Left: 0.016+/-0.000 χ^2/NDF : 496947.4/32

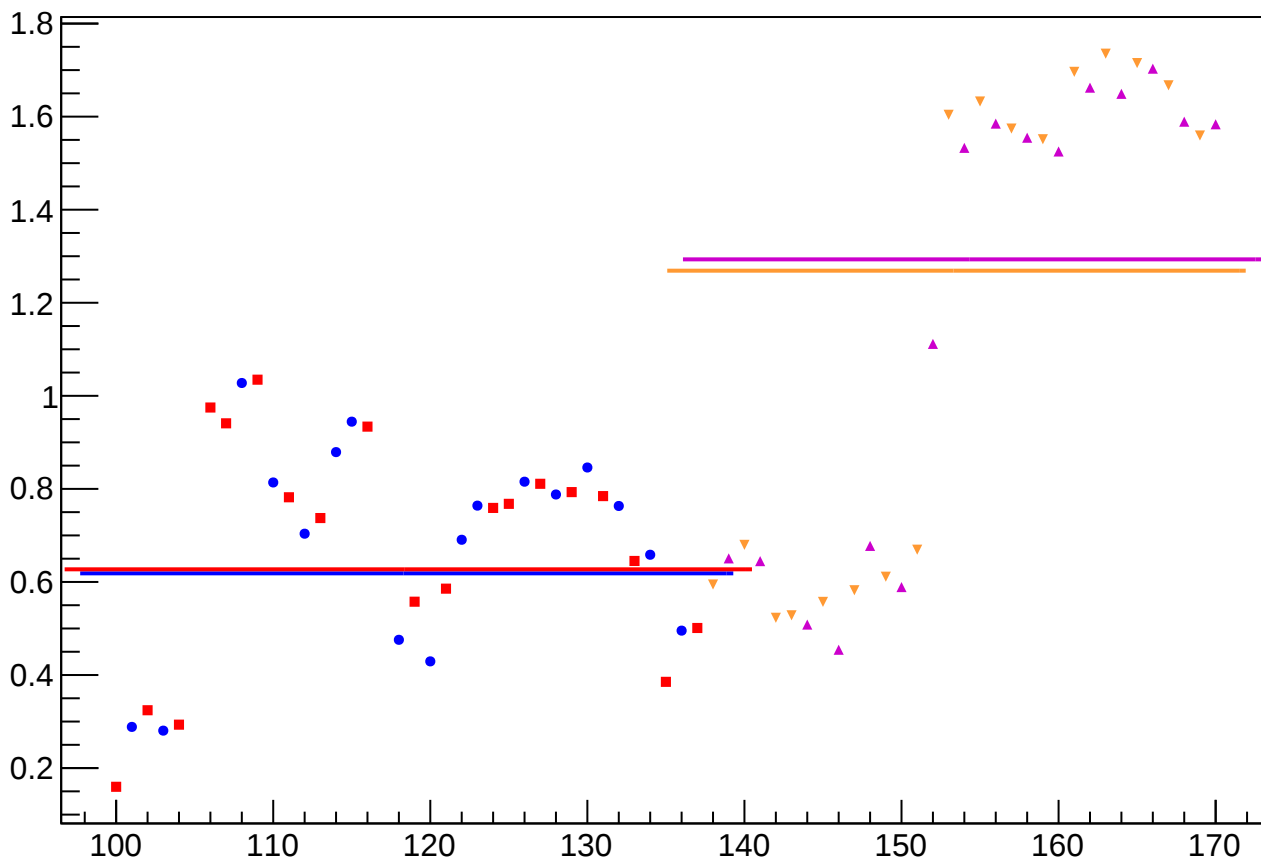
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :846847.1/32

Out: 0.015+/-0.000 χ^2/NDF :778849.7/35

All: 0.015+/-0.000 χ^2/NDF : 1633781.2/68

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: 1.293+/-0.000 χ^2/NDF : 56855150503.3/15

Left: 1.282+/-0.000 χ^2/NDF : 122337669068.0/32

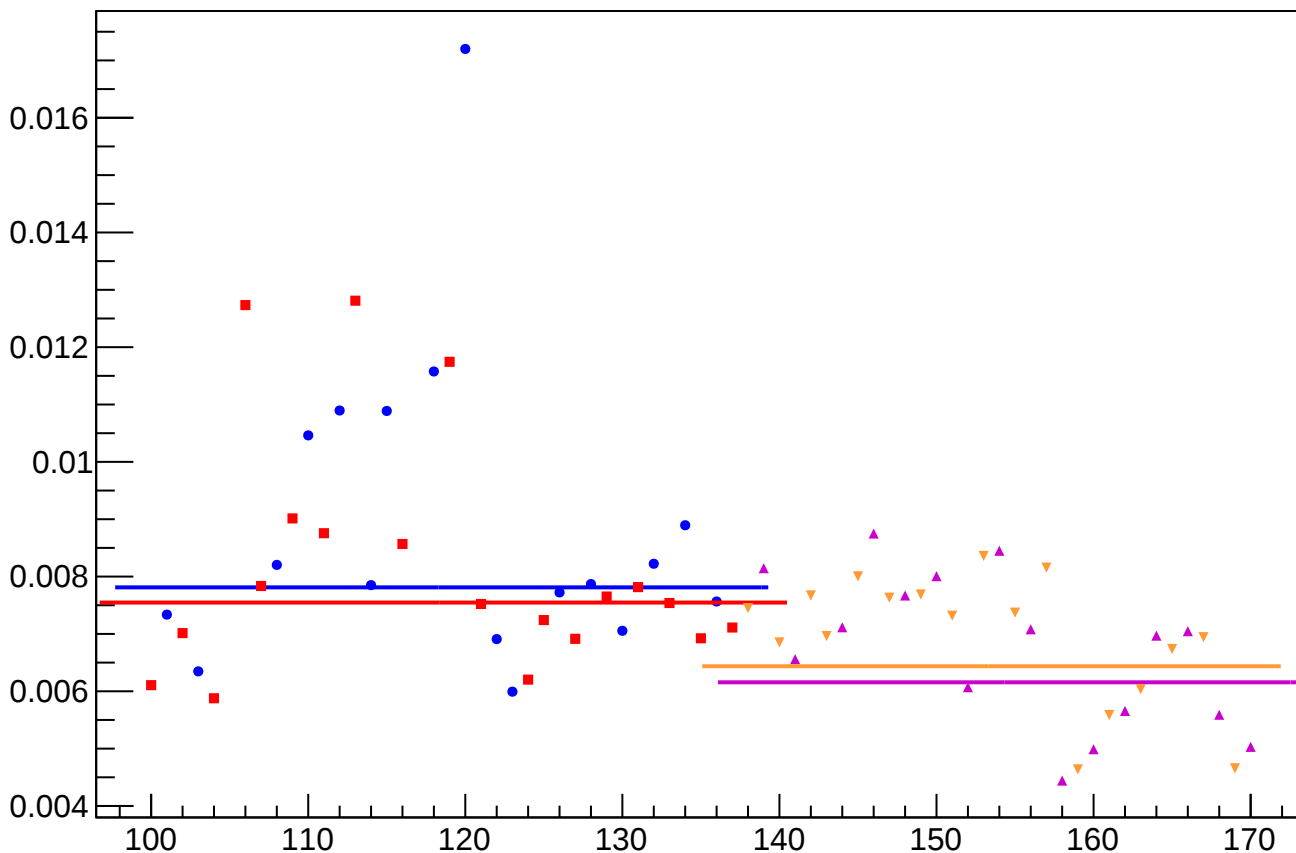
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.129+/-0.000 χ^2/NDF : 95120090247.1/32

Out: 1.085+/-0.000 χ^2/NDF : 103700653783.8/35

All: 1.108+/-0.000 χ^2/NDF : 199191088478.8

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 :971528.4/15

Left: 0.006+/-0.000 χ^2/NDF : 1871444.2/32

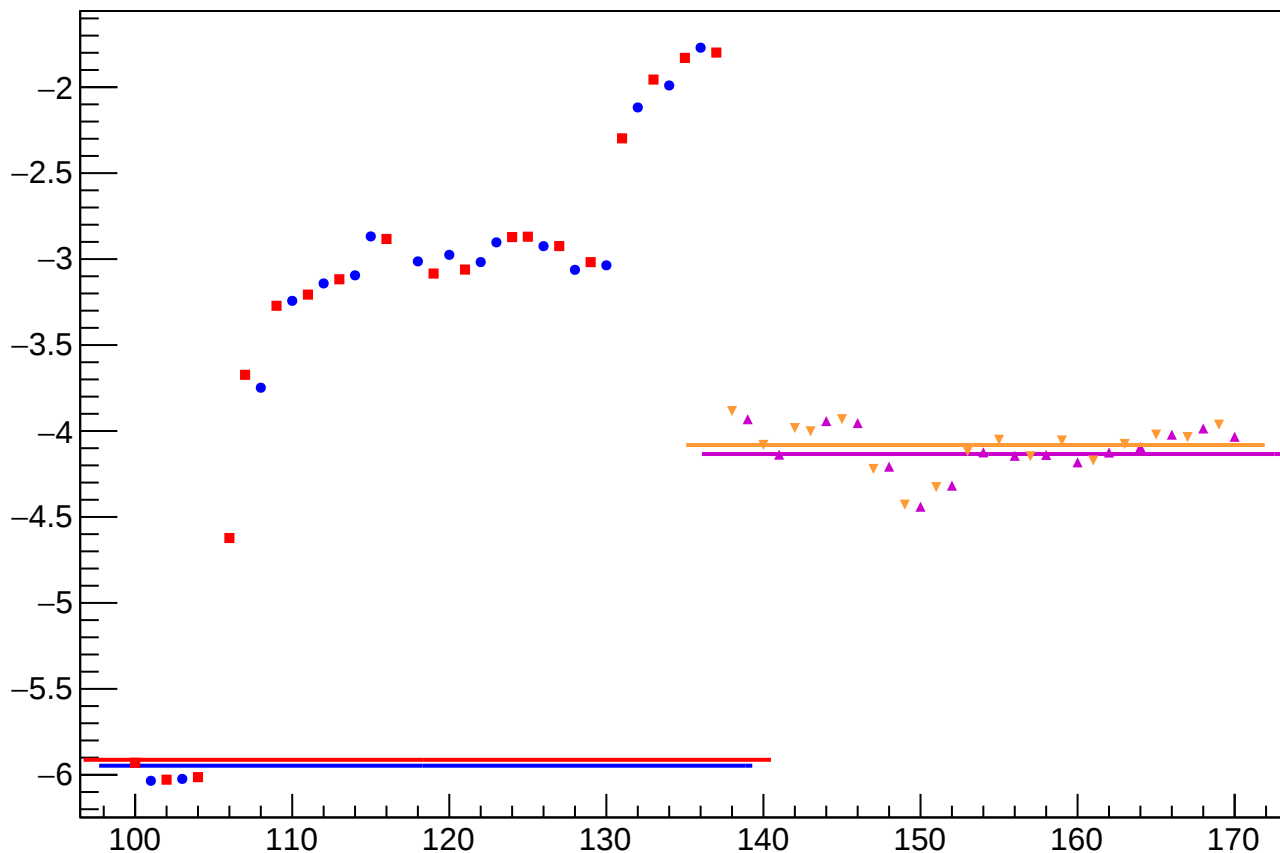
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF :1833850.0/32

Out: 0.007+/-0.000 χ^2/NDF :1511191.6/35

All: 0.007+/-0.000 χ^2/NDF : 3359679.3/68

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: -4.134+/-0.000 χ^2/NDF : 25035001.6/15

Left: -4.109+/-0.000 χ^2/NDF : 61447945.2/32

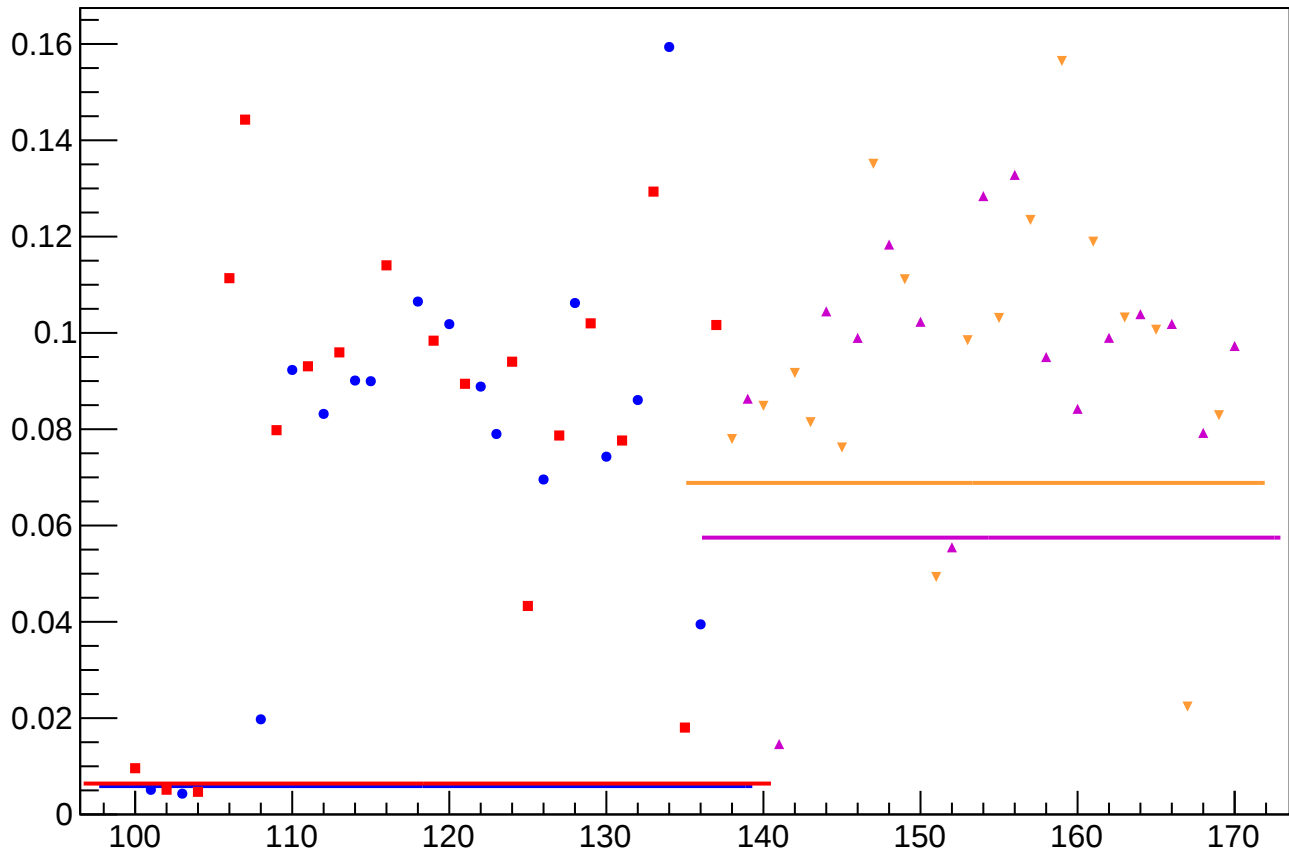
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.874+/-0.000 χ^2/NDF : 19456864399.0/32

Out: -5.831+/-0.000 χ^2/NDF : 20337216575.7/35

All: -5.855+/-0.000 χ^2/NDF : 39834636132.4/70

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: 0.057+/-0.000 χ^2/NDF : 6707706.9/15

Left: 0.063+/-0.000 χ^2/NDF : 11441725.2/32

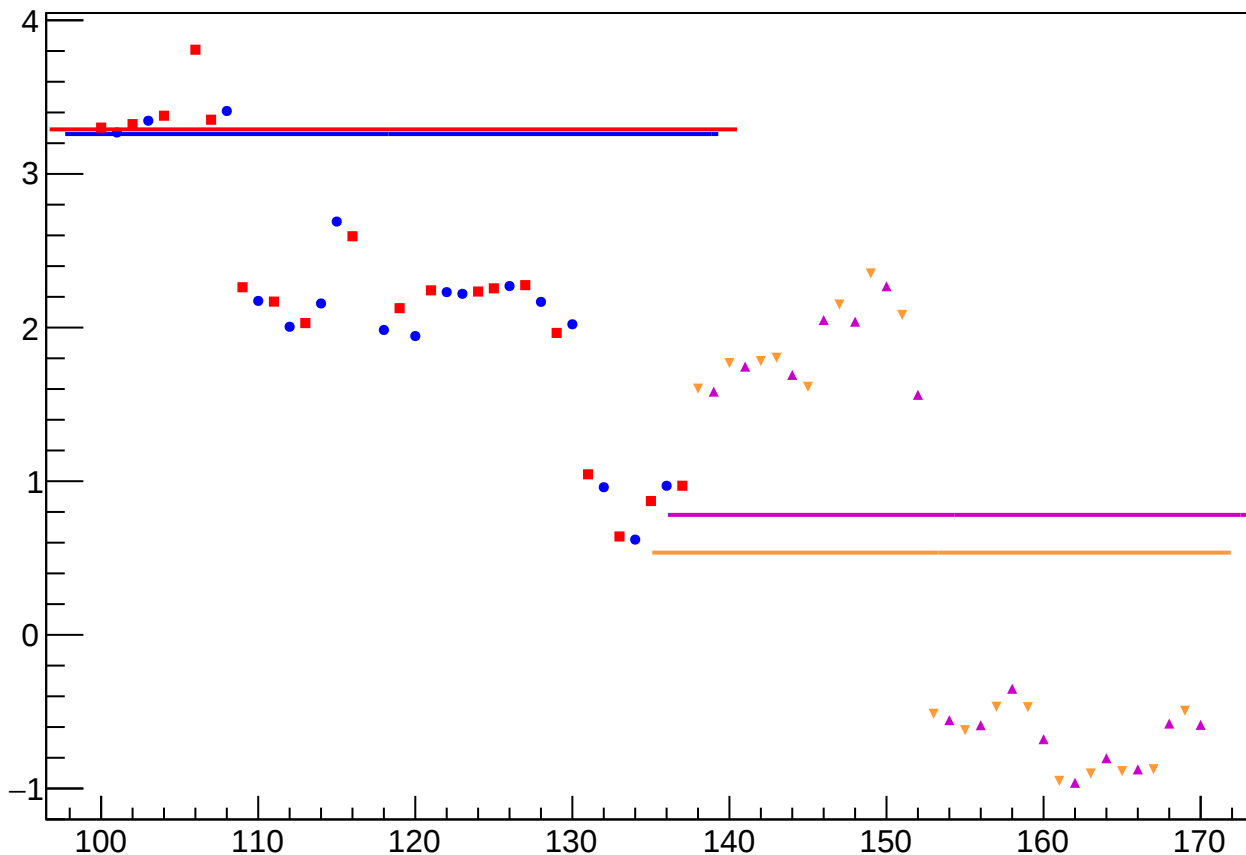
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 24791646.8/32

Out: 0.009+/-0.000 χ^2/NDF : 26207983.3/35

All: 0.009+/-0.000 χ^2/NDF : 51065680.5/68

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: 0.781+/-0.000 χ^2/NDF : 2004018343.1/15

Left: 0.653+/-0.000 χ^2/NDF : 4691852819.6/32

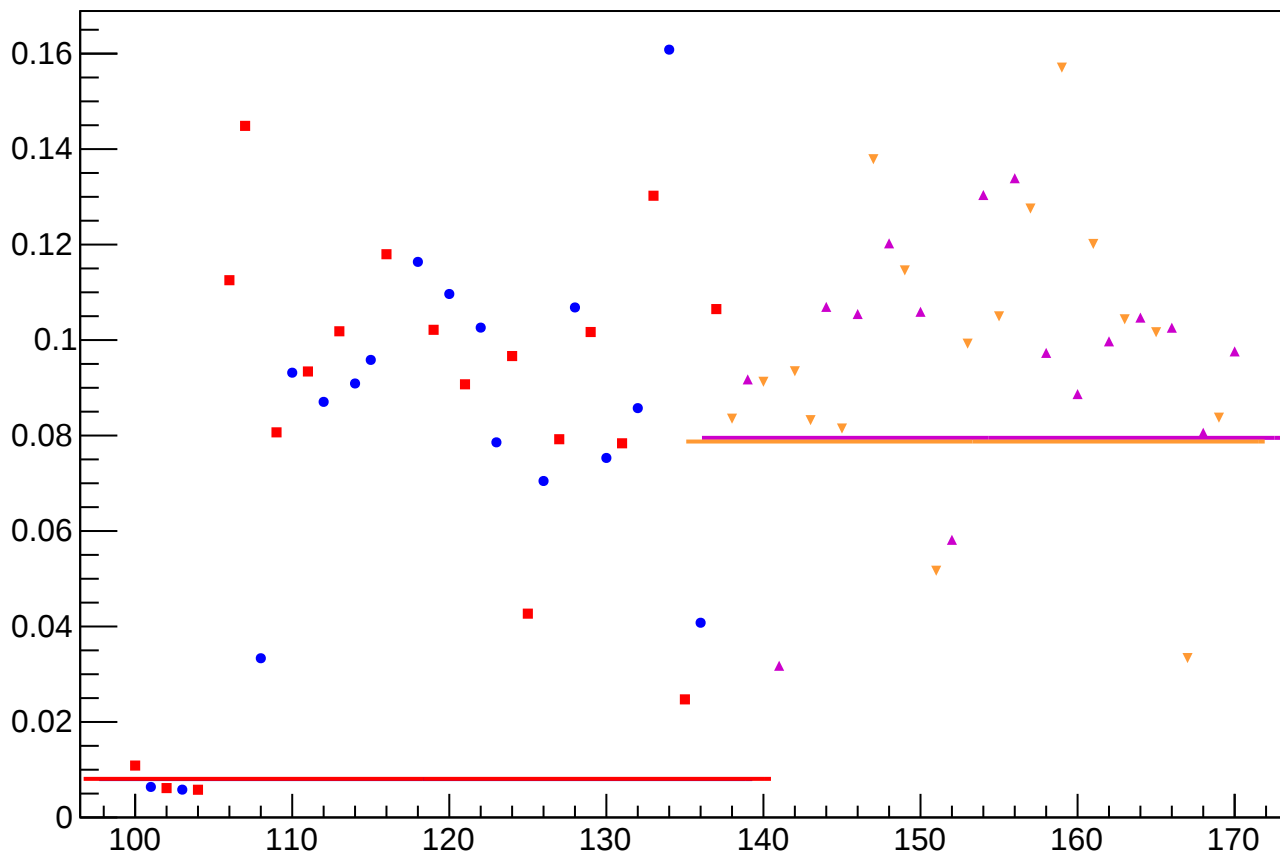
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.146+/-0.000 χ^2/NDF : 12985409146.2/32

Out: 3.143+/-0.000 χ^2/NDF : 16649618453.2/35

All: 3.145+/-0.000 χ^2/NDF : 29635231850.2/67

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.079+/-0.000 χ^2/NDF : 2967024.7/16

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.080+/-0.000 χ^2/NDF : 2800827.4/15

Left: 0.079+/-0.000 χ^2/NDF : 5768702.5/32

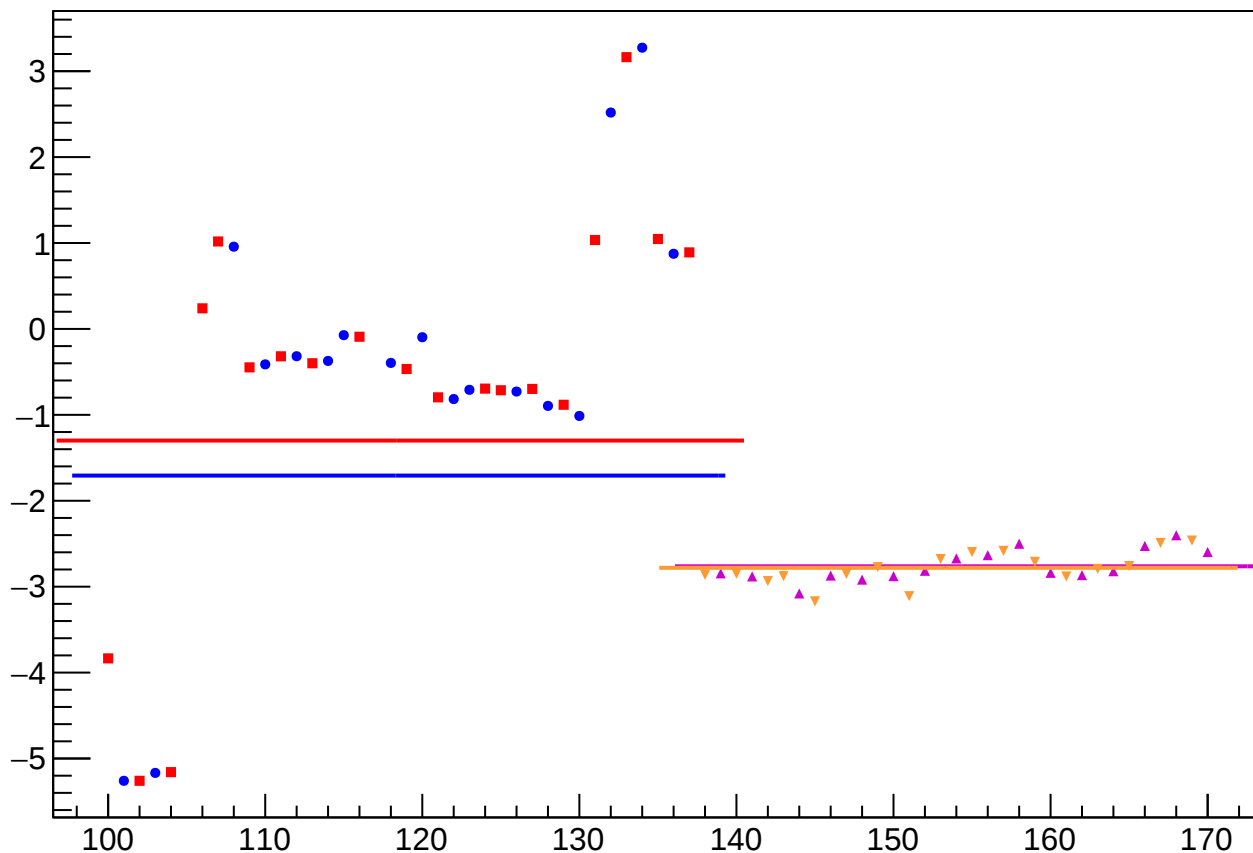
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF : 23947735.1/32

Out: 0.012+/-0.000 χ^2/NDF : 25412573.3/35

All: 0.012+/-0.000 χ^2/NDF : 49369499.5/68

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000

χ^2/NDF : 166125579390.4/16

Left: -2.772+/-0.000

χ^2/NDF : 13818558914.2/32

Left Out: -2.780+/-0.000

χ^2/NDF : 7263160098.9/16

Right: -1.489+/-0.000

χ^2/NDF : 346196986988.8/35

Right Out: -1.299+/-0.000

χ^2/NDF : 178036726841.2/18

In: -2.652+/-0.000

χ^2/NDF : 195503157935.5/32

Out: -2.608+/-0.000

χ^2/NDF : 236339270126.8/35

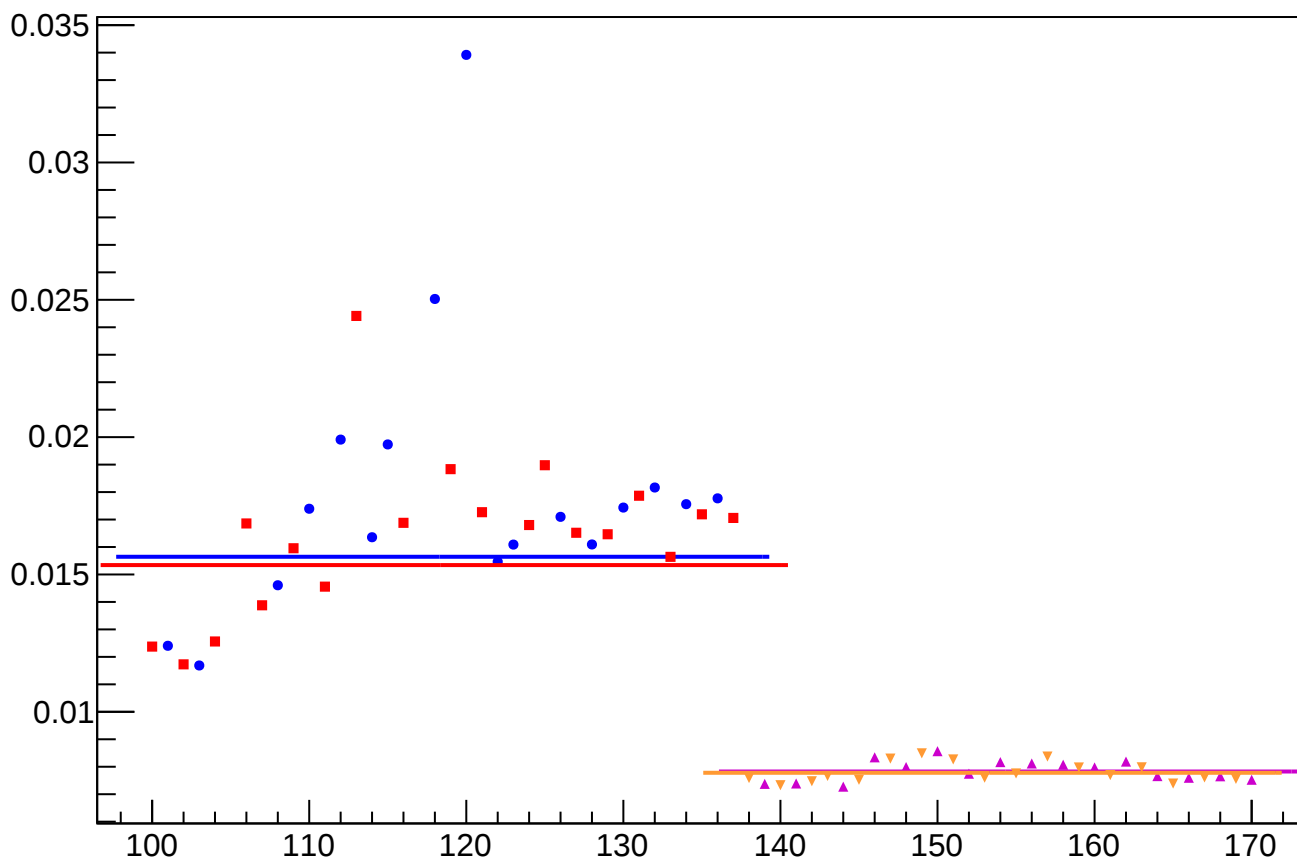
Left In: -2.763+/-0.000

χ^2/NDF : 6524643380.7/15

All: -2.630+/-0.000

χ^2/NDF : 432056747927.6

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 46937.3/16

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 53577.0/15

Left: 0.008+/-0.000 χ^2/NDF : 100936.7/32

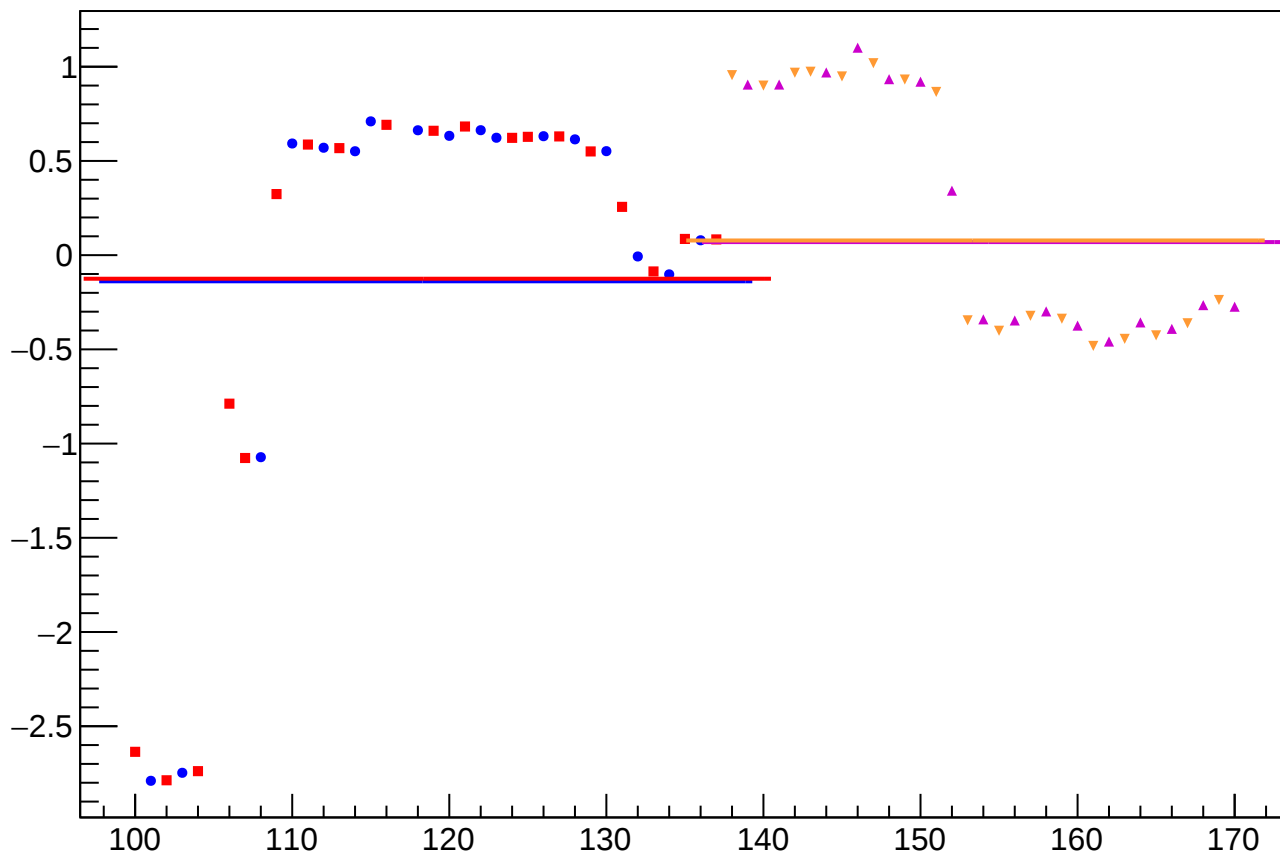
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3137729.1/32

Out: 0.009+/-0.000 χ^2/NDF : 3061515.2/35

All: 0.009+/-0.000 χ^2/NDF : 6199284.1/68

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: 0.074+/-0.000 χ^2/NDF : 226002964867.4/32

Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

Left Out: 0.078+/-0.000

χ^2/NDF : 122637521257.8/16

In: -0.060+/-0.000 χ^2/NDF : 826774239983.2/32

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

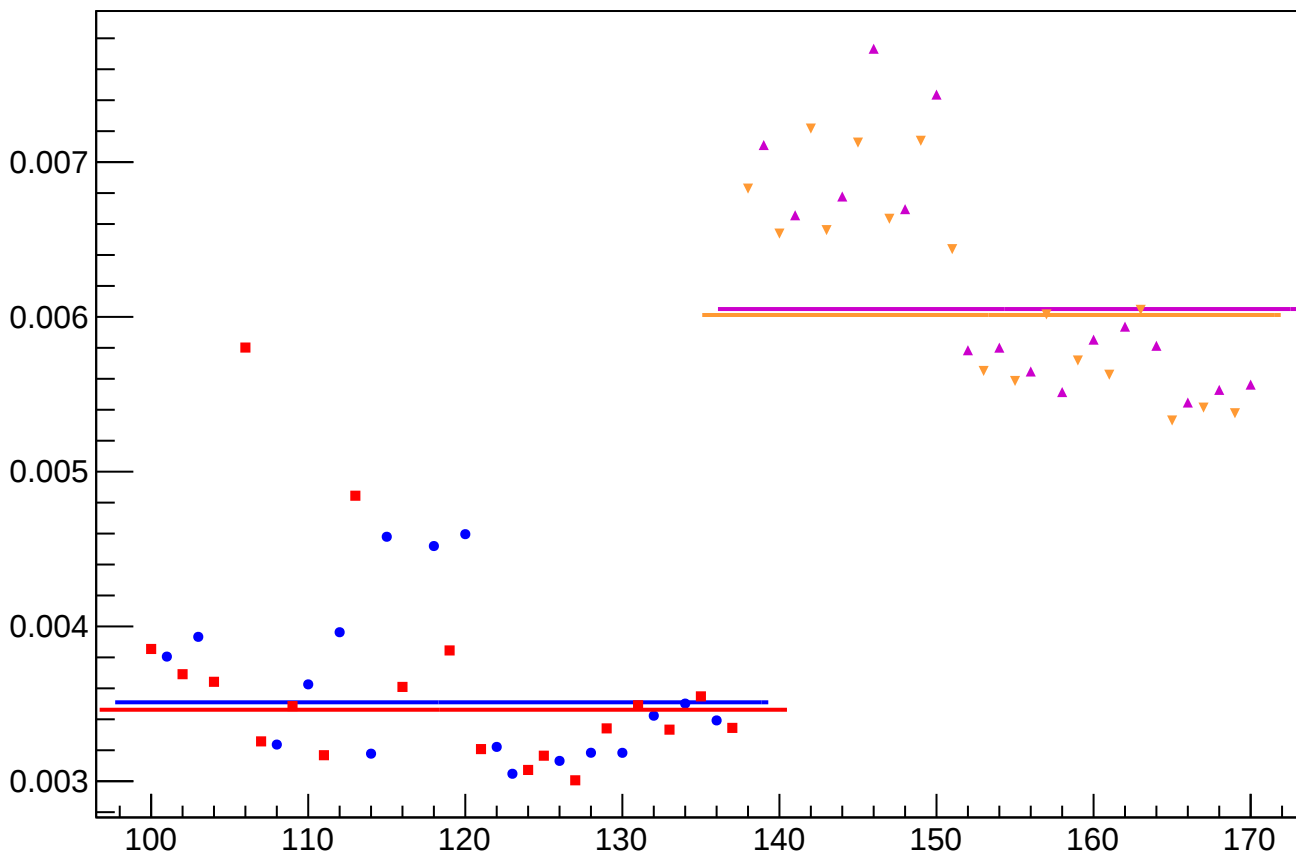
Out: -0.052+/-0.000 χ^2/NDF : 892430459713.3/35

Left In: 0.069+/-0.000

χ^2/NDF : 103354127967.1/15

All: -0.056+/-0.000 χ^2/NDF : 1719231983143

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 :255185.5/15

Left: 0.006+/-0.000 χ^2/NDF : 479859.8/32

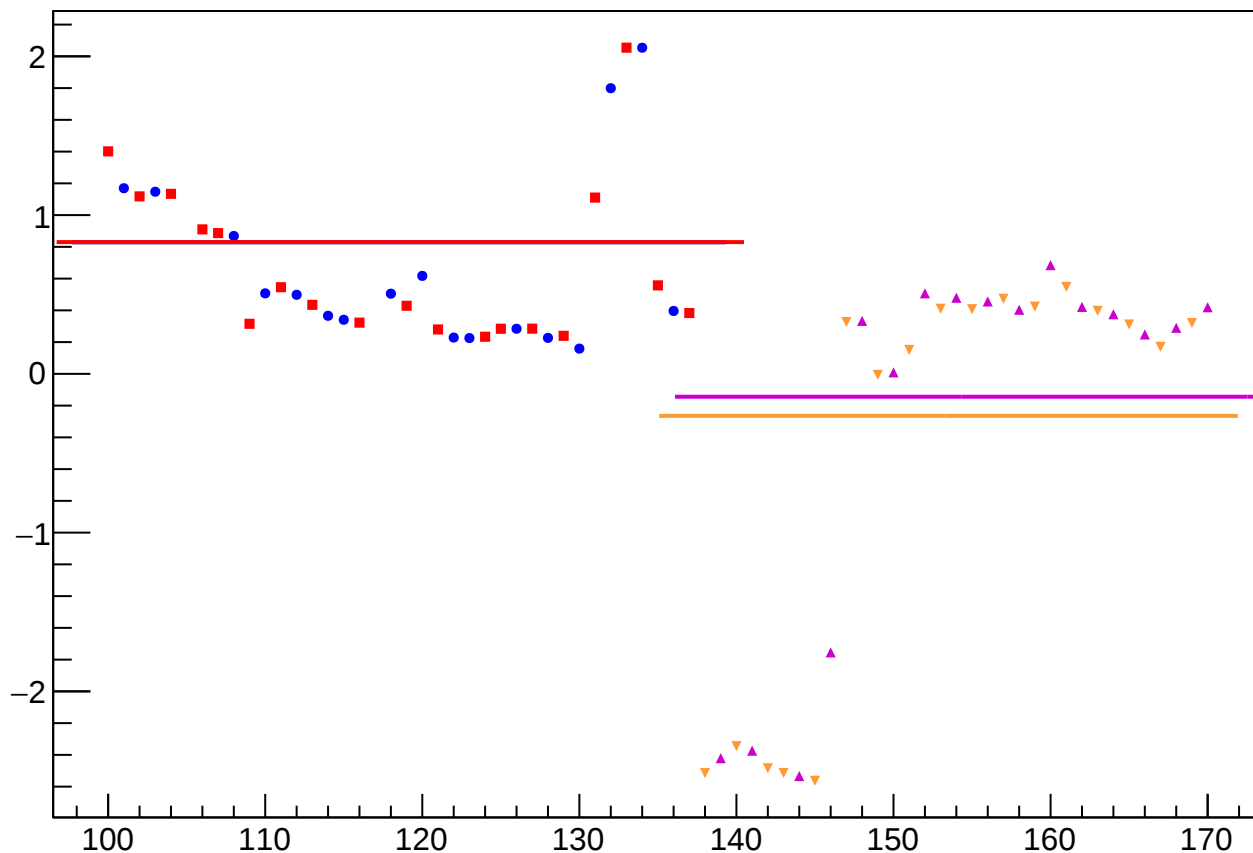
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2922606.5/32

Out: 0.004+/-0.000 χ^2/NDF :3059797.3/35

All: 0.004+/-0.000 χ^2/NDF : 5989353.8/68

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: -0.144+/-0.000 χ^2/NDF : 399422847239.3/15

Left: -0.205+/-0.000 χ^2/NDF : 860262064079.7/32

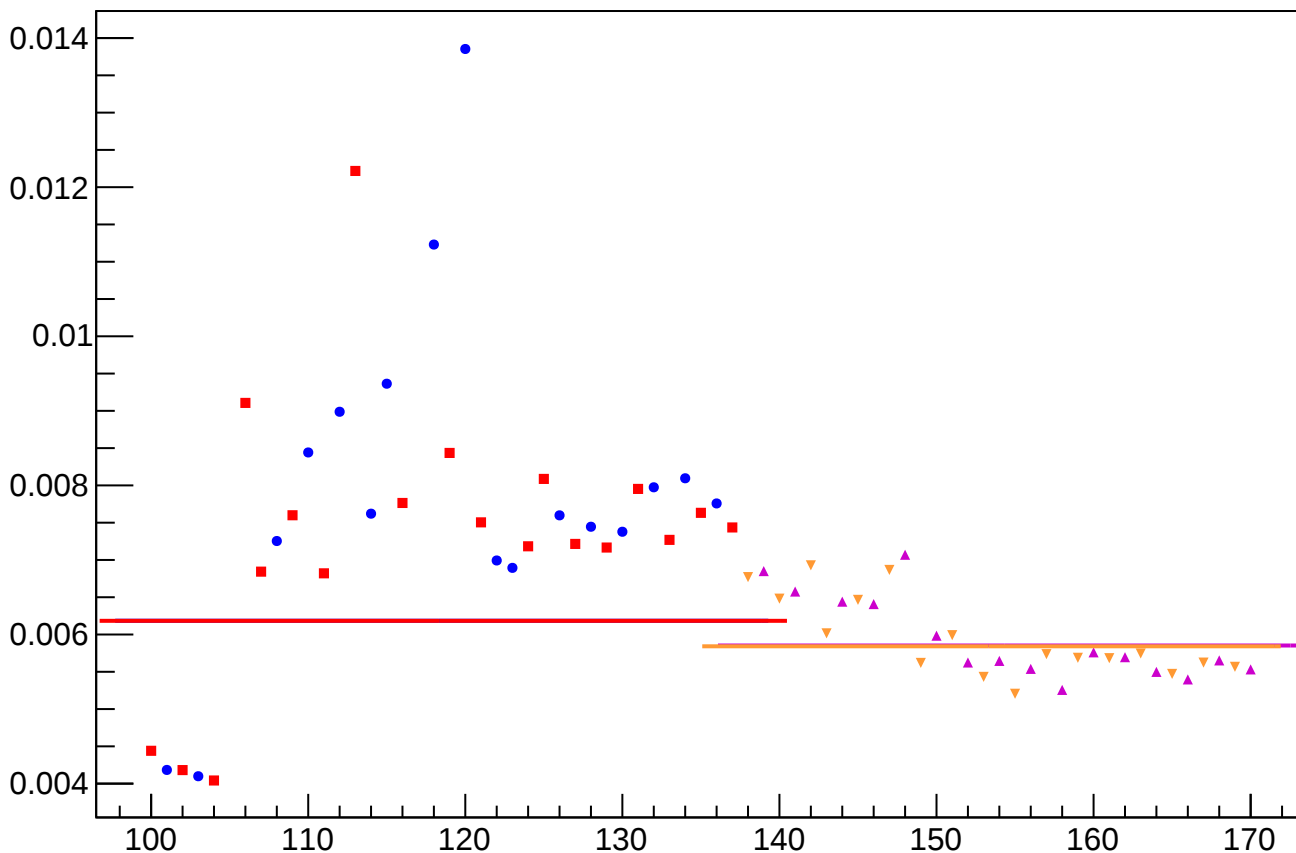
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.138+/-0.000 χ^2/NDF : 524573010475.3/32

Out: 0.071+/-0.000 χ^2/NDF : 617804354802.3/35

All: 0.104+/-0.000 χ^2/NDF : 1143459966849.0

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 :165976.4/15

Left: 0.006+/-0.000 χ^2/NDF : 318601.2/32

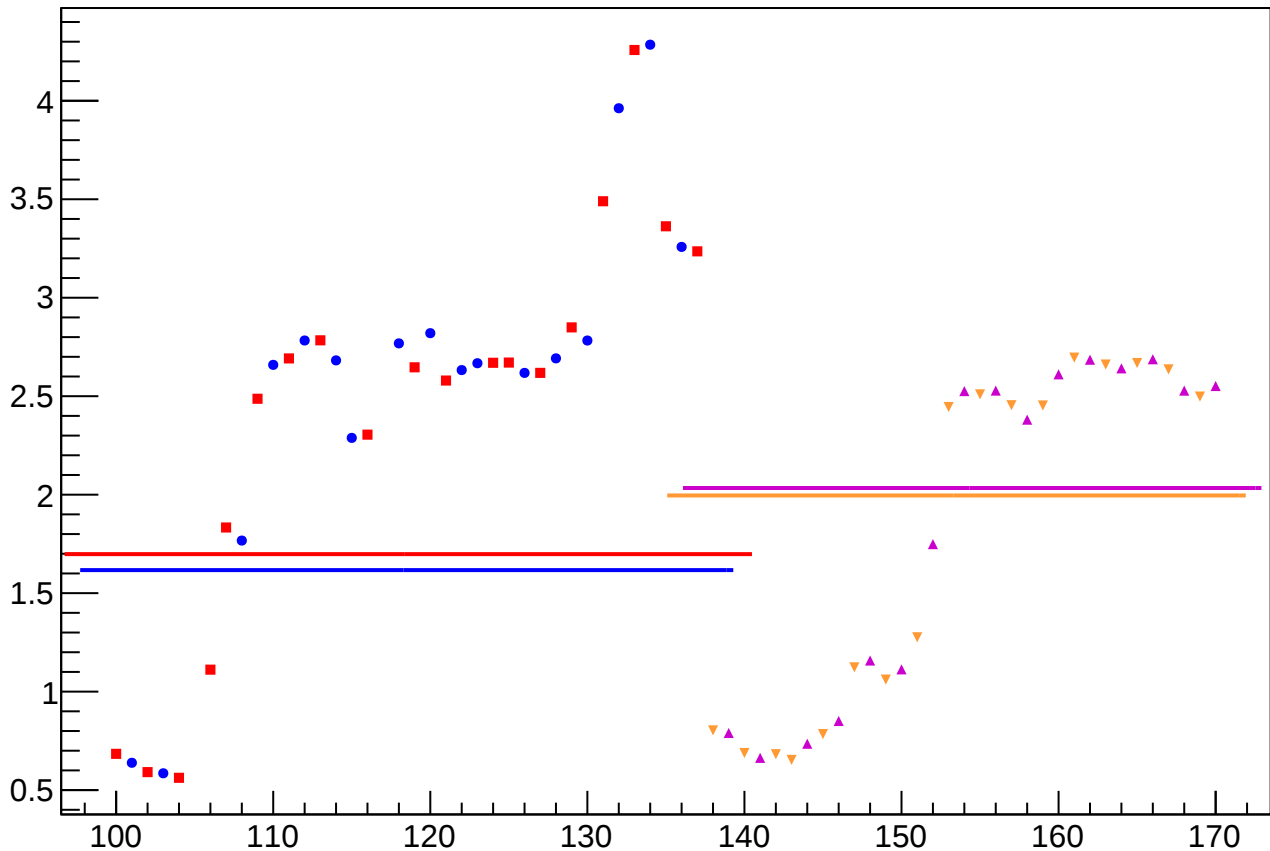
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1416720.0/32

Out: 0.006+/-0.000 χ^2/NDF :1204011.0/35

All: 0.006+/-0.000 χ^2/NDF : 2620733.2/68

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.996+/-0.000 χ^2/NDF : 252216718219.2/16

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.034+/-0.000 χ^2/NDF : 220621441532.6/15

Left: 2.015+/-0.000 χ^2/NDF : 473116923292.9/32

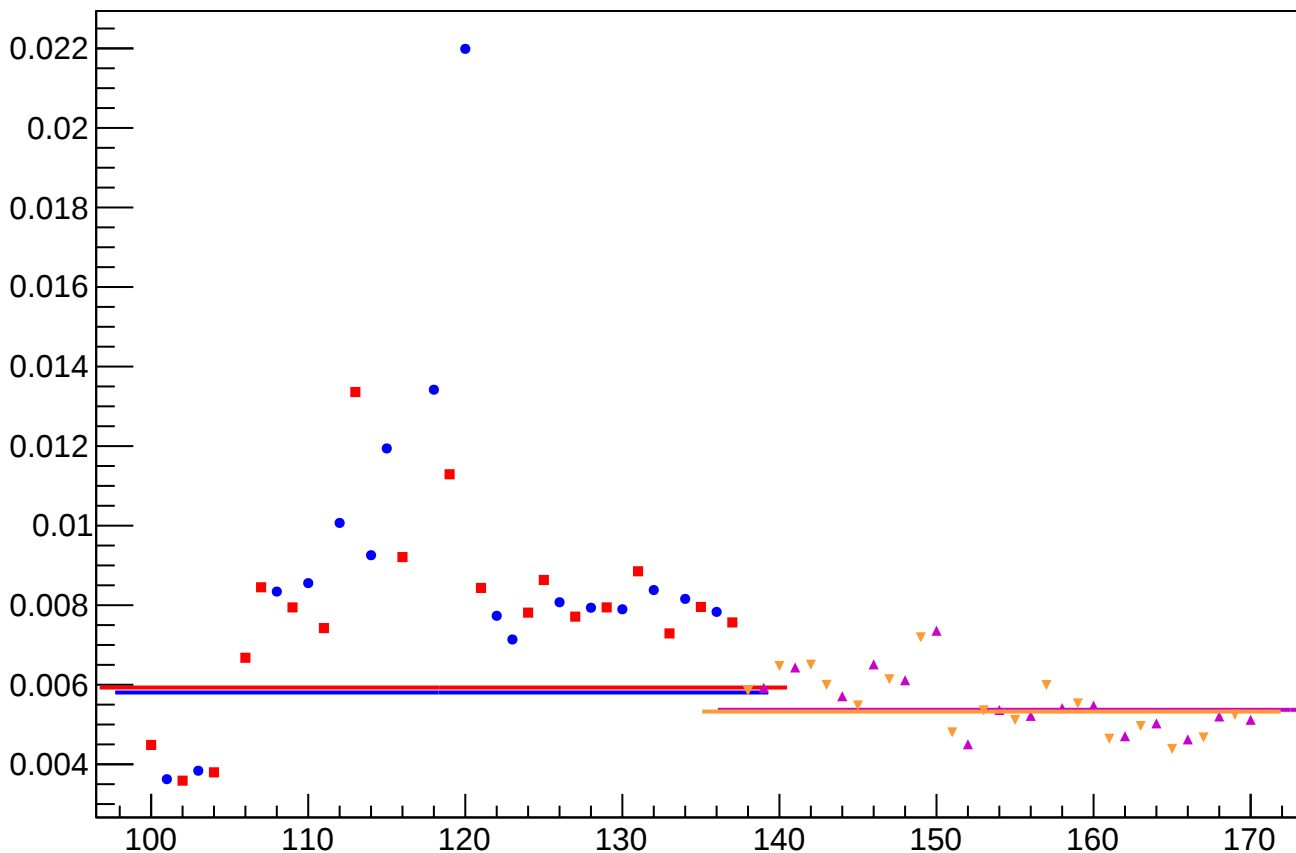
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 1.921+/-0.000 χ^2/NDF : 441664252082.5/32

Out: 1.913+/-0.000 χ^2/NDF : 489351924479.0/35

All: 1.917+/-0.000 χ^2/NDF : 931035834480.9

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 361445.7/16

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 346391.4/15

Left: 0.005+/-0.000 χ^2/NDF : 708589.2/32

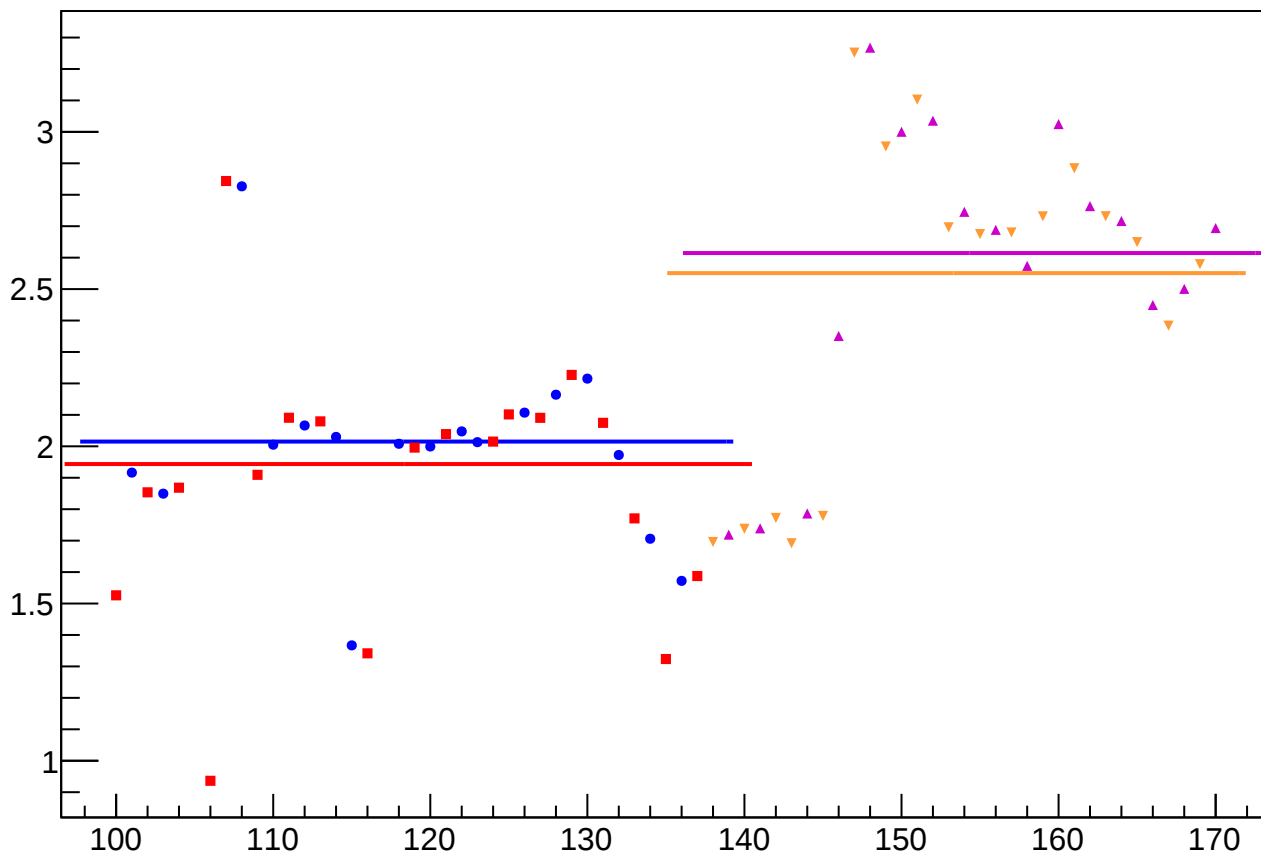
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF : 2303952.3/32

Out: 0.005+/-0.000 χ^2/NDF : 2127010.0/35

All: 0.005+/-0.000 χ^2/NDF : 4430992.8/68

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: 2.615+/-0.000 χ^2/NDF : 41212045204.2/15

Left: 2.583+/-0.000 χ^2/NDF : 90208600771.3/32

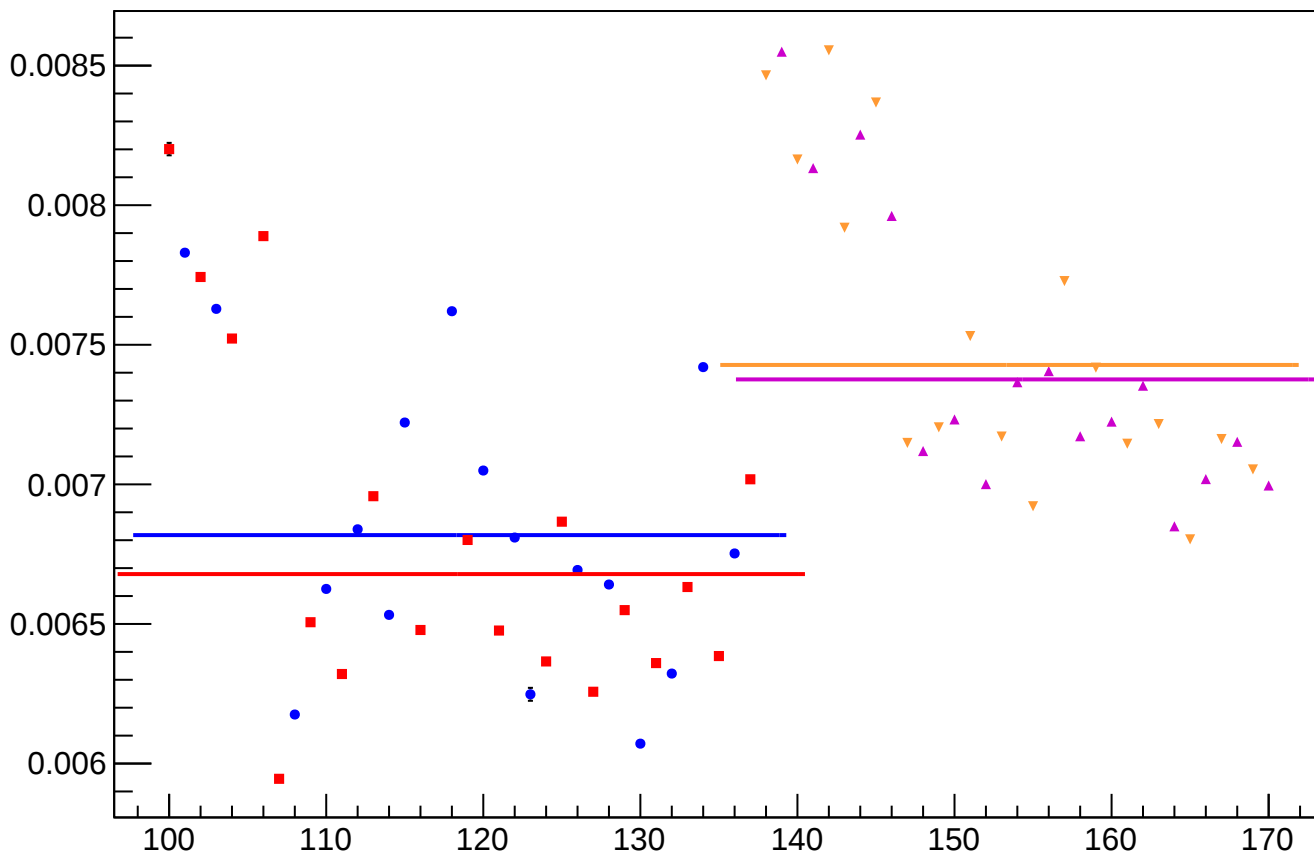
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.384+/-0.000 χ^2/NDF : 83710802916.1/32

Out: 2.300+/-0.000 χ^2/NDF : 102929167671.9/35

All: 2.341+/-0.000 χ^2/NDF : 187914055549.2

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 :90304.1/15

Left: 0.007+/-0.000 χ^2/NDF : 196208.7/32

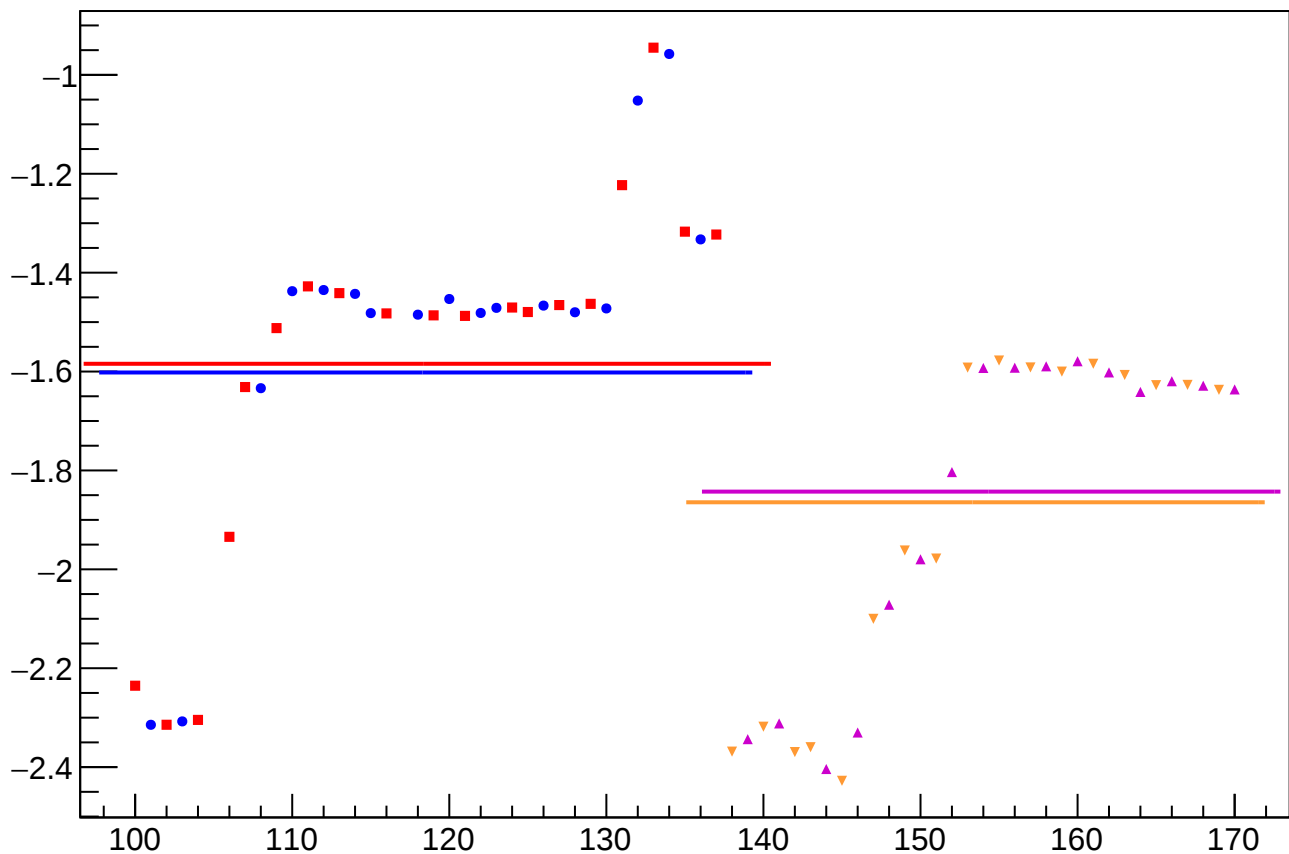
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :218494.0/32

Out: 0.007+/-0.000 χ^2/NDF :281332.2/35

All: 0.007+/-0.000 χ^2/NDF : 500491.9/68

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: -1.843+/-0.000 χ^2/NDF : 146686004682.4/15

Left: -1.854+/-0.000 χ^2/NDF : 308548599424.1/32

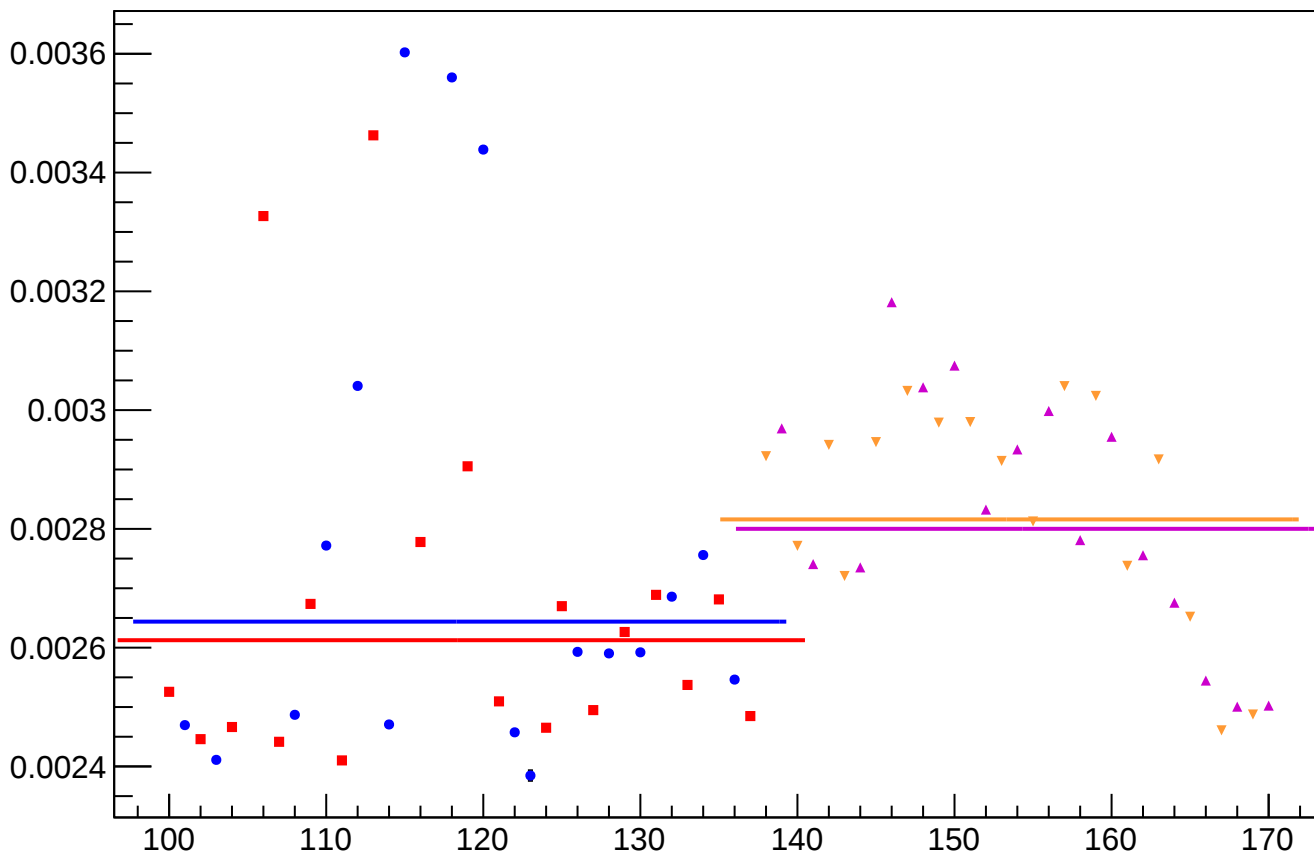
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.753+/-0.000 χ^2/NDF : 319603602196.1/32

Out: -1.754+/-0.000 χ^2/NDF : 351550543215.7/35

All: -1.753+/-0.000 χ^2/NDF : 671155023246.5

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :107606.9/16

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :122226.0/15

Left: 0.003+/-0.000 χ^2/NDF : 230212.0/32

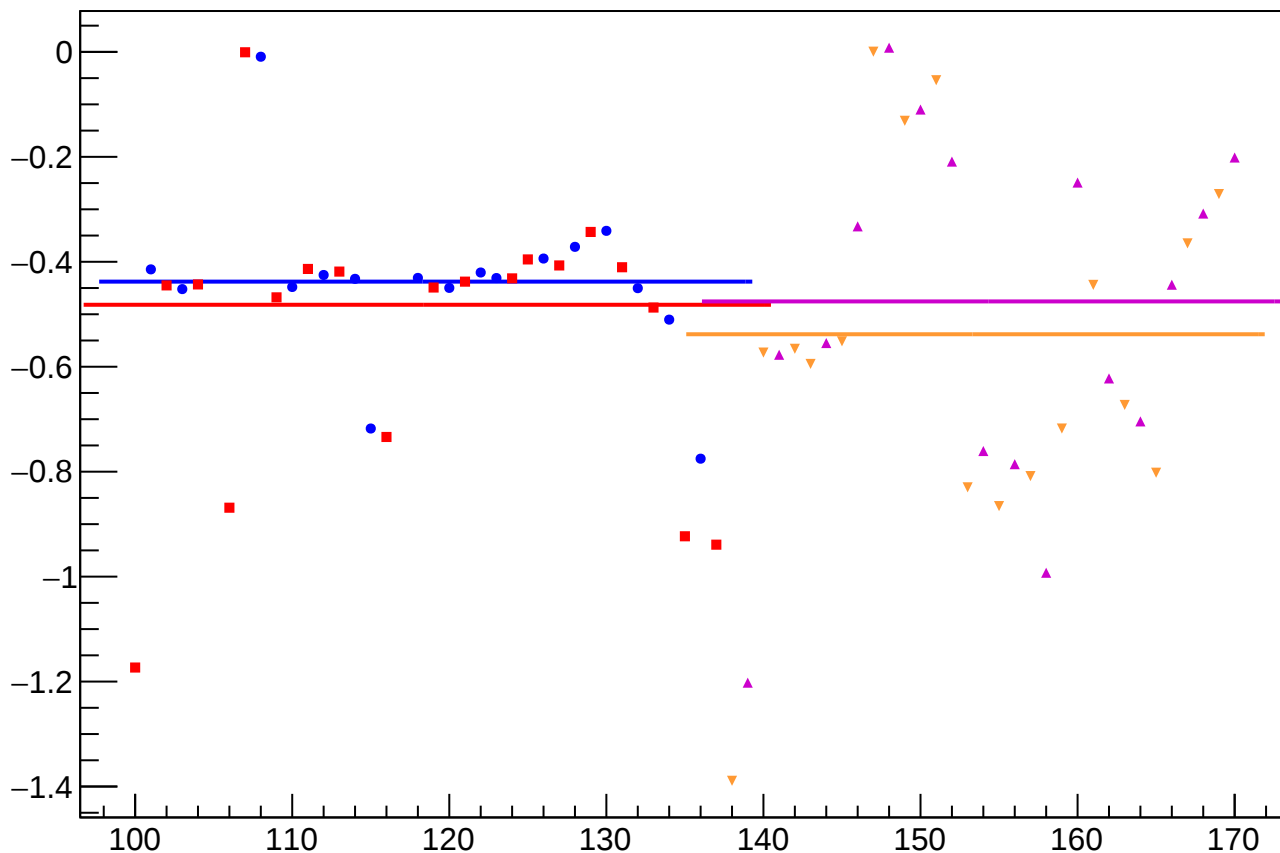
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :301134.6/32

Out: 0.003+/-0.000 χ^2/NDF :261908.0/35

All: 0.003+/-0.000 χ^2/NDF : 563135.2/68

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 $\pm$ 0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.538 $\pm$ 0.000 χ^2/NDF : 8416728062.5/16

Right Out: -0.482 $\pm$ 0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.476 $\pm$ 0.000 χ^2/NDF : 7785569470.1/15

Left: -0.507 $\pm$ 0.000 χ^2/NDF : 16352527477.9/32

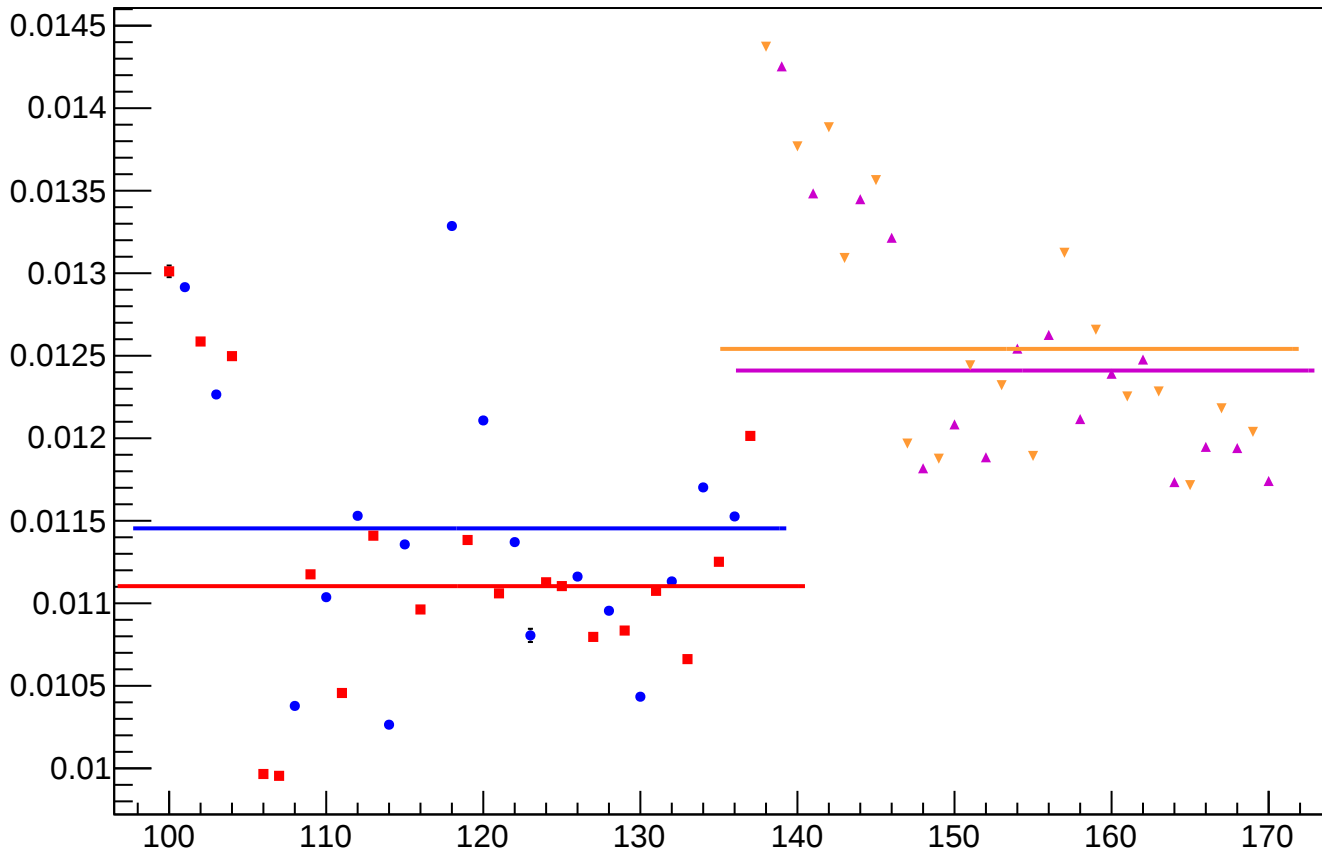
Right: -0.461 $\pm$ 0.000 χ^2/NDF : 4208237576.2/35

In: -0.461 $\pm$ 0.000 χ^2/NDF : 9290875516.0/32

Out: -0.514 $\pm$ 0.000 χ^2/NDF : 11213607506.8/35

All: -0.488 $\pm$ 0.000 χ^2/NDF : 20689391700.5/35

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 : 69829.8/15

Left: 0.012+/-0.000 χ^2/NDF : 149921.1/32

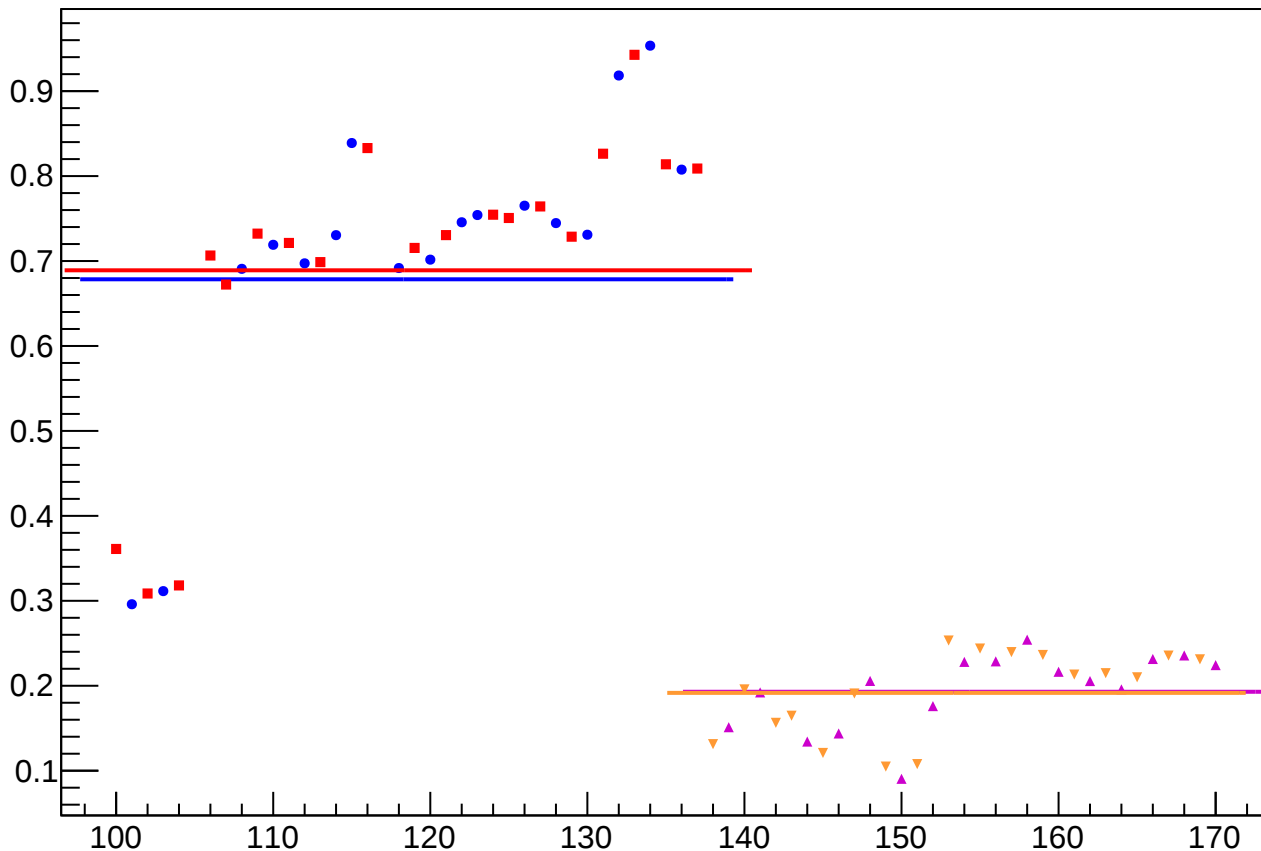
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 189569.4/32

Out: 0.012+/-0.000 χ^2/NDF : 268719.0/35

All: 0.012+/-0.000 χ^2/NDF : 459741.2/68

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38506442638.3/16

Left Out: 0.192 $\pm$ 0.000 χ^2 /NDF: 6244105495.5/16

Right Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 35358596931.1/18

Left In: 0.193 $\pm$ 0.000 χ^2 /NDF: 5095897407.0/15

Left: 0.192 $\pm$ 0.000 χ^2 /NDF: 11342188454.7/32

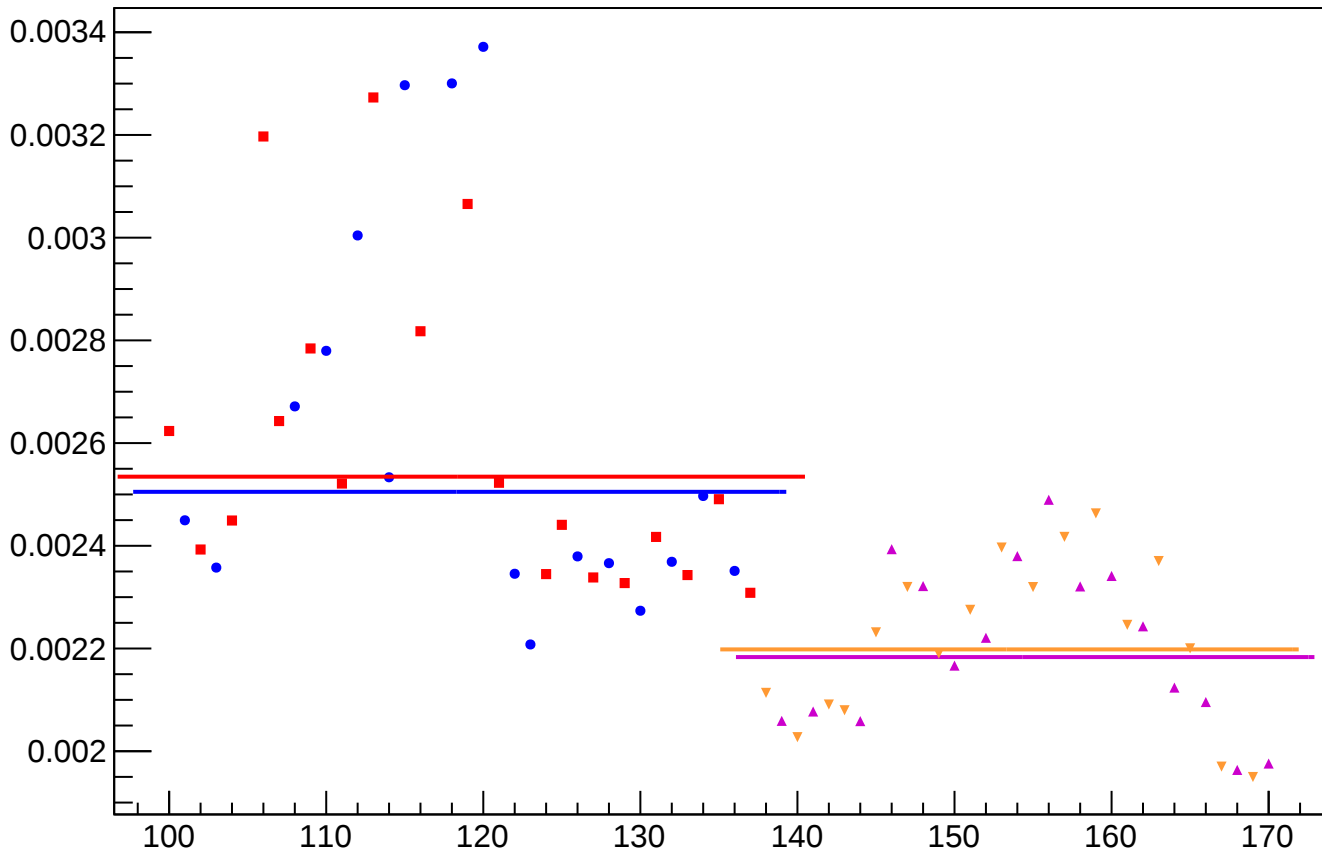
Right: 0.684 $\pm$ 0.000 χ^2 /NDF: 73922739006.0/35

In: 0.330 $\pm$ 0.000 χ^2 /NDF: 215370981538.5/32

Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 225384366291.3/35

All: 0.332 $\pm$ 0.000 χ^2 /NDF: 440797877082.7

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 :123920.0/15

Left: 0.002+/-0.000 χ^2/NDF : 252404.3/32

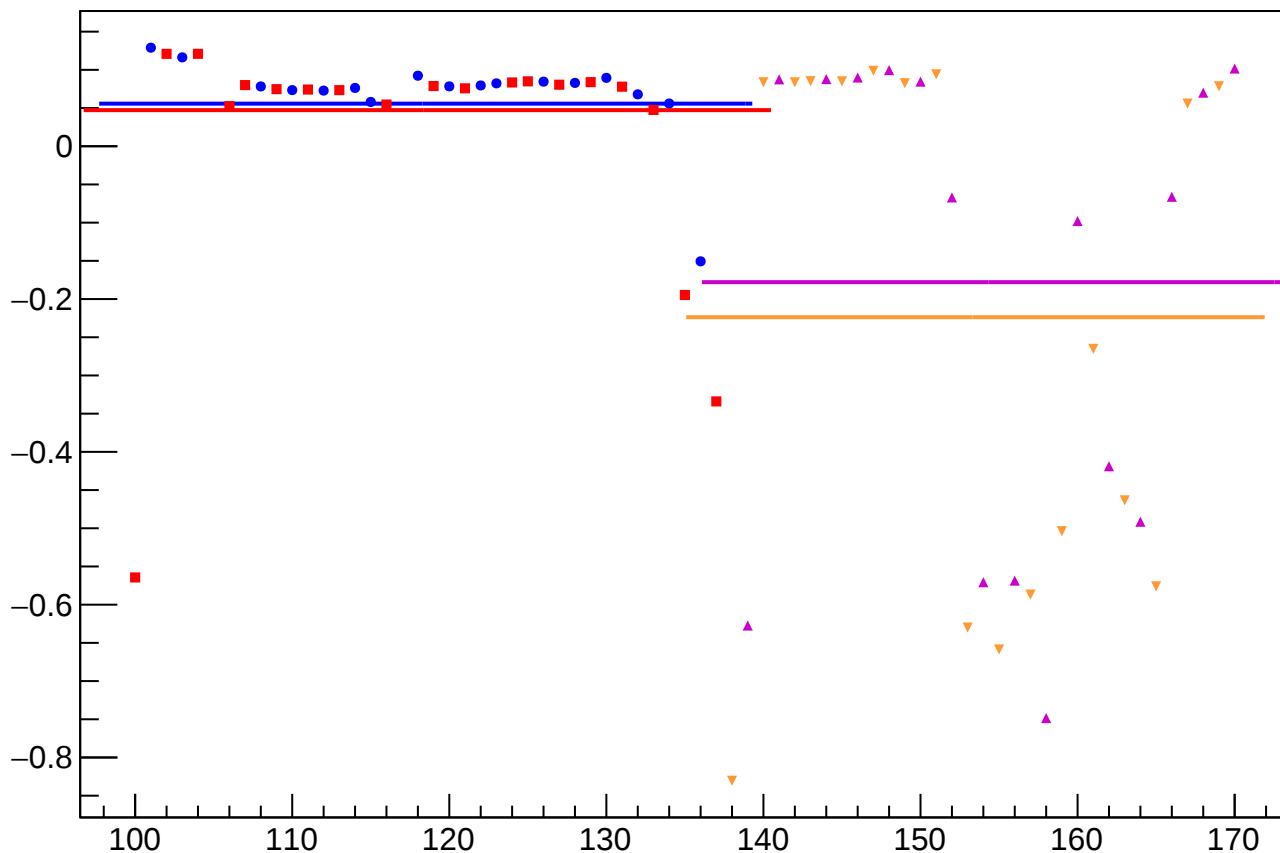
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :450312.2/32

Out: 0.002+/-0.000 χ^2/NDF :427552.8/35

All: 0.002+/-0.000 χ^2/NDF : 879448.7/68

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000

χ^2 /NDF: 423003688.1/16

Left: -0.201 $\pm$ 0.000

χ^2 /NDF: 19446781568.4/32

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: -0.080 $\pm$ 0.000

χ^2 /NDF: 11487419959.4/32

Out: -0.101 $\pm$ 0.000

χ^2 /NDF: 14357162239.5/35

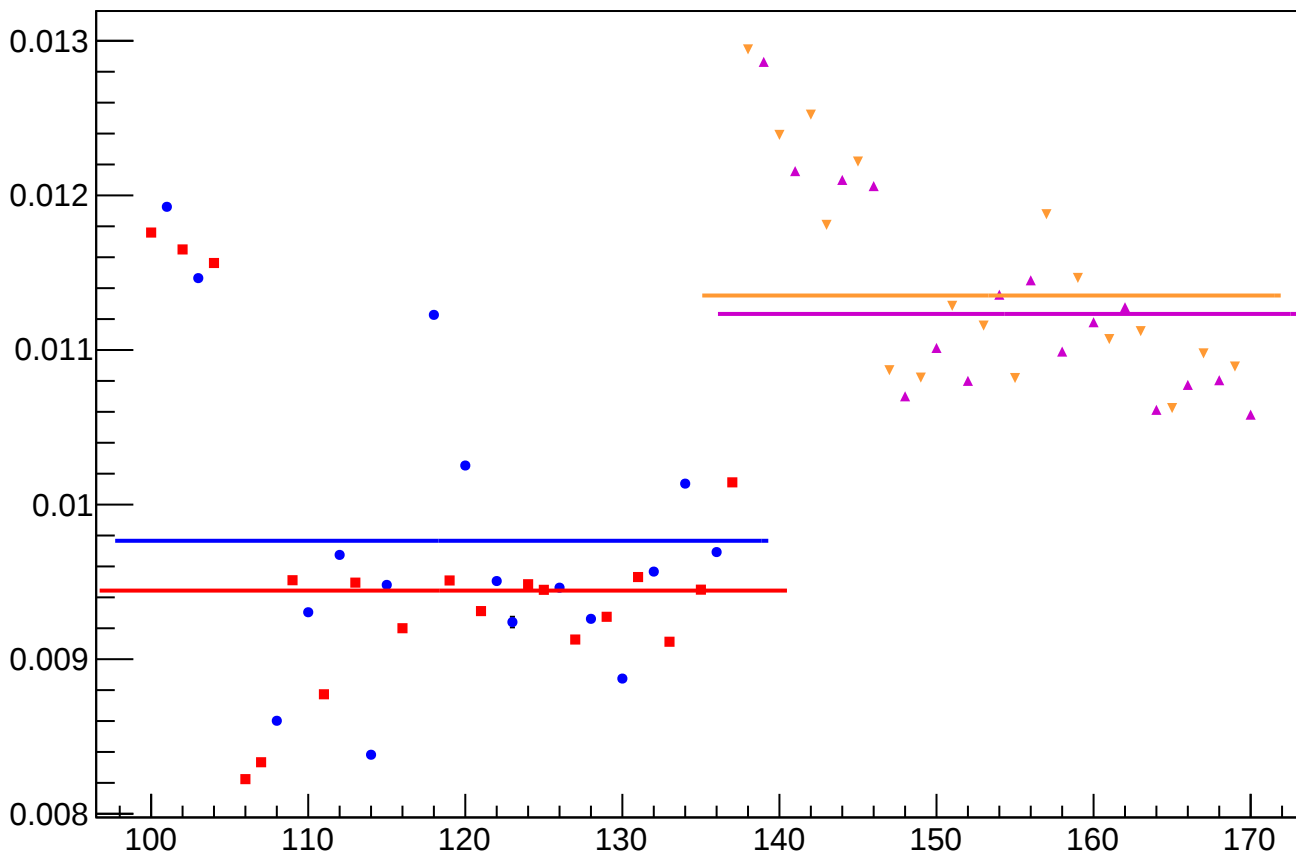
Left In: -0.178 $\pm$ 0.000

χ^2 /NDF: 8918071569.5/15

All: -0.091 $\pm$ 0.000

χ^2 /NDF: 25879600530.4/16

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 : 68357.4/15

Left: 0.011+/-0.000 χ^2/NDF : 141748.8/32

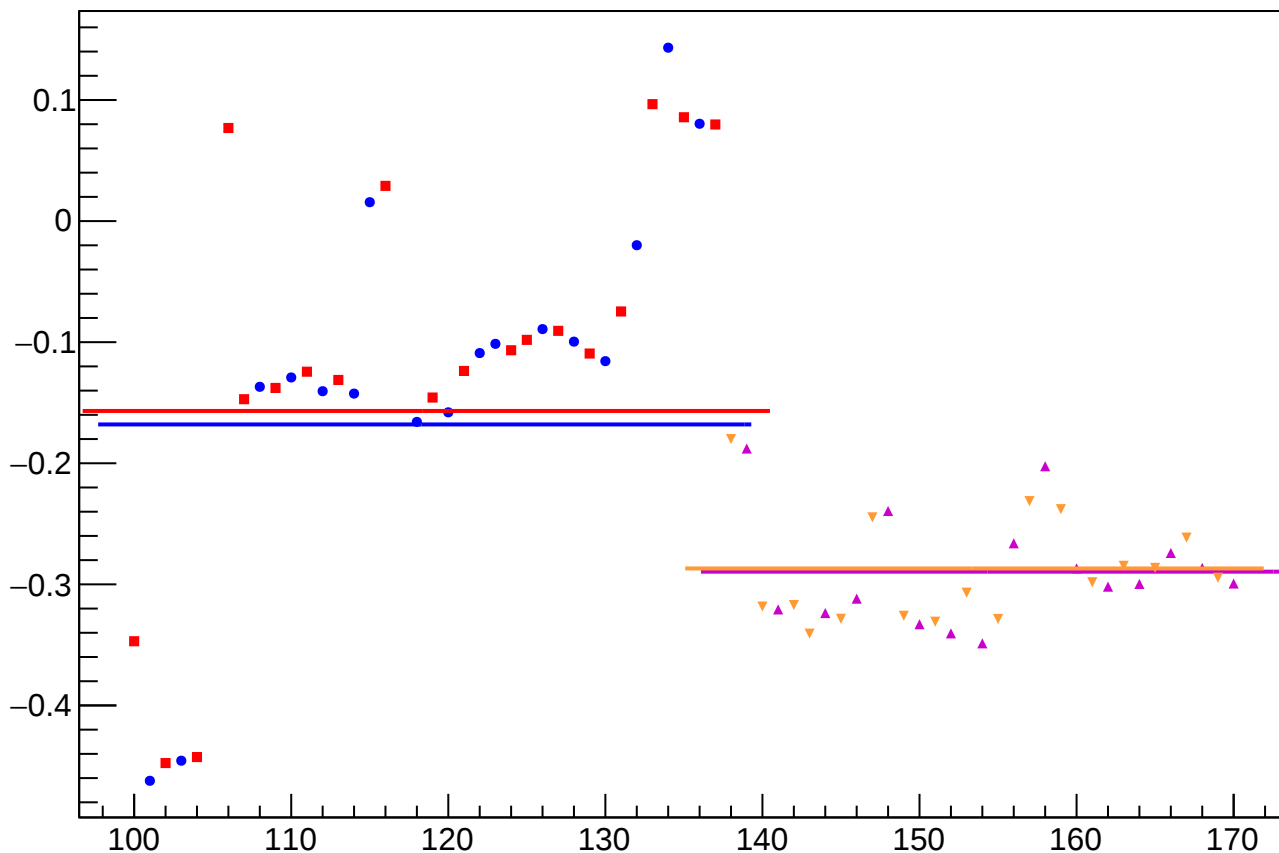
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 354310.5/32

Out: 0.010+/-0.000 χ^2/NDF : 491070.6/35

All: 0.011+/-0.000 χ^2/NDF : 848342.6/68

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168 ± 0.000 $\chi^2/\text{NDF}: 12331812610.6/16$

Left Out: -0.287 ± 0.000 $\chi^2/\text{NDF}: 2775167252.2/16$

Right Out: -0.157 ± 0.000 $\chi^2/\text{NDF}: 11026962470.3/18$

Left In: -0.290 ± 0.000 $\chi^2/\text{NDF}: 3093567557.8/15$

Left: -0.288 ± 0.000 $\chi^2/\text{NDF}: 5874214697.5/32$

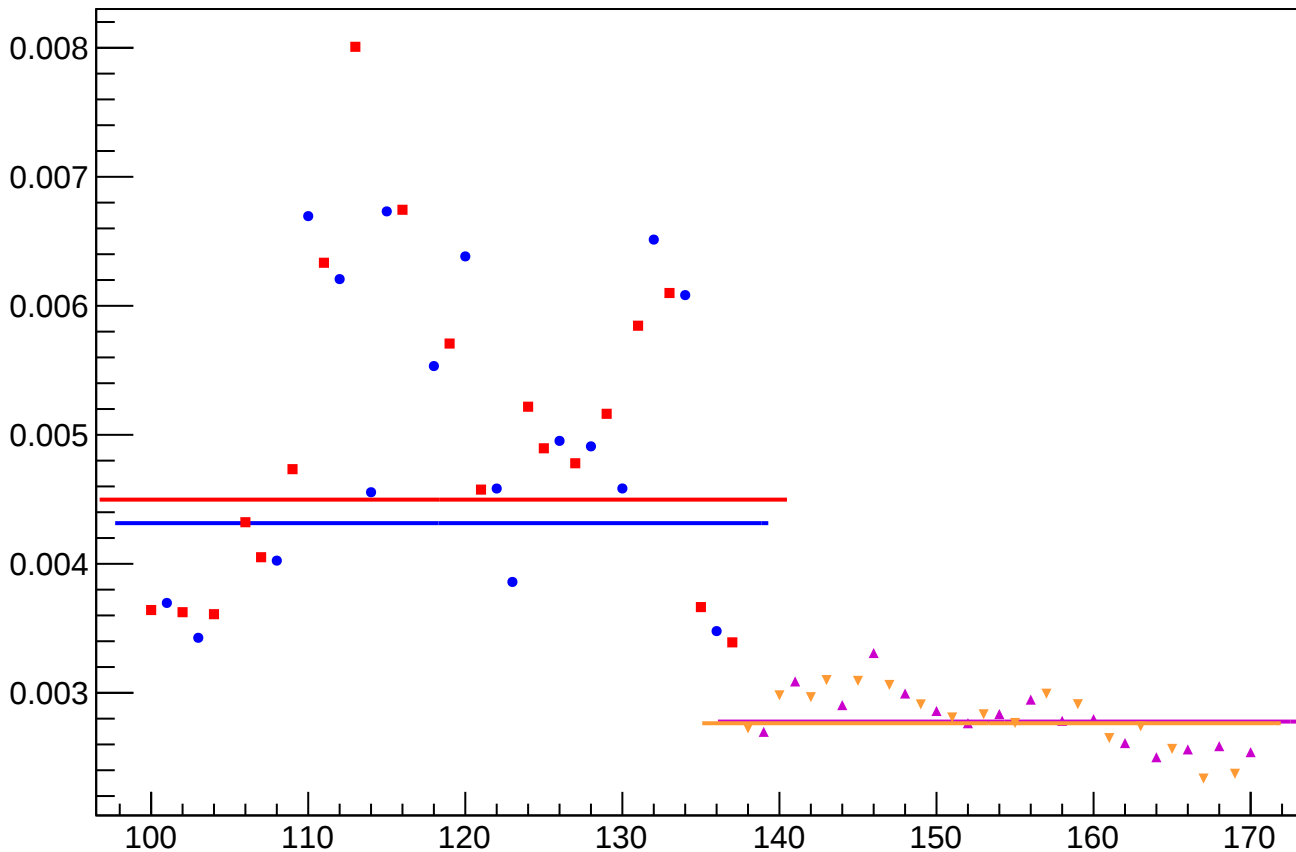
Right: -0.162 ± 0.000 $\chi^2/\text{NDF}: 23377980189.6/35$

In: -0.269 ± 0.000 $\chi^2/\text{NDF}: 19259834794.0/32$

Out: -0.266 ± 0.000 $\chi^2/\text{NDF}: 18154956486.5/35$

All: -0.267 ± 0.000 $\chi^2/\text{NDF}: 37425745838.2/70$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :178272.9/16

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :121717.6/15

Left: 0.003+/-0.000 χ^2/NDF : 300253.7/32

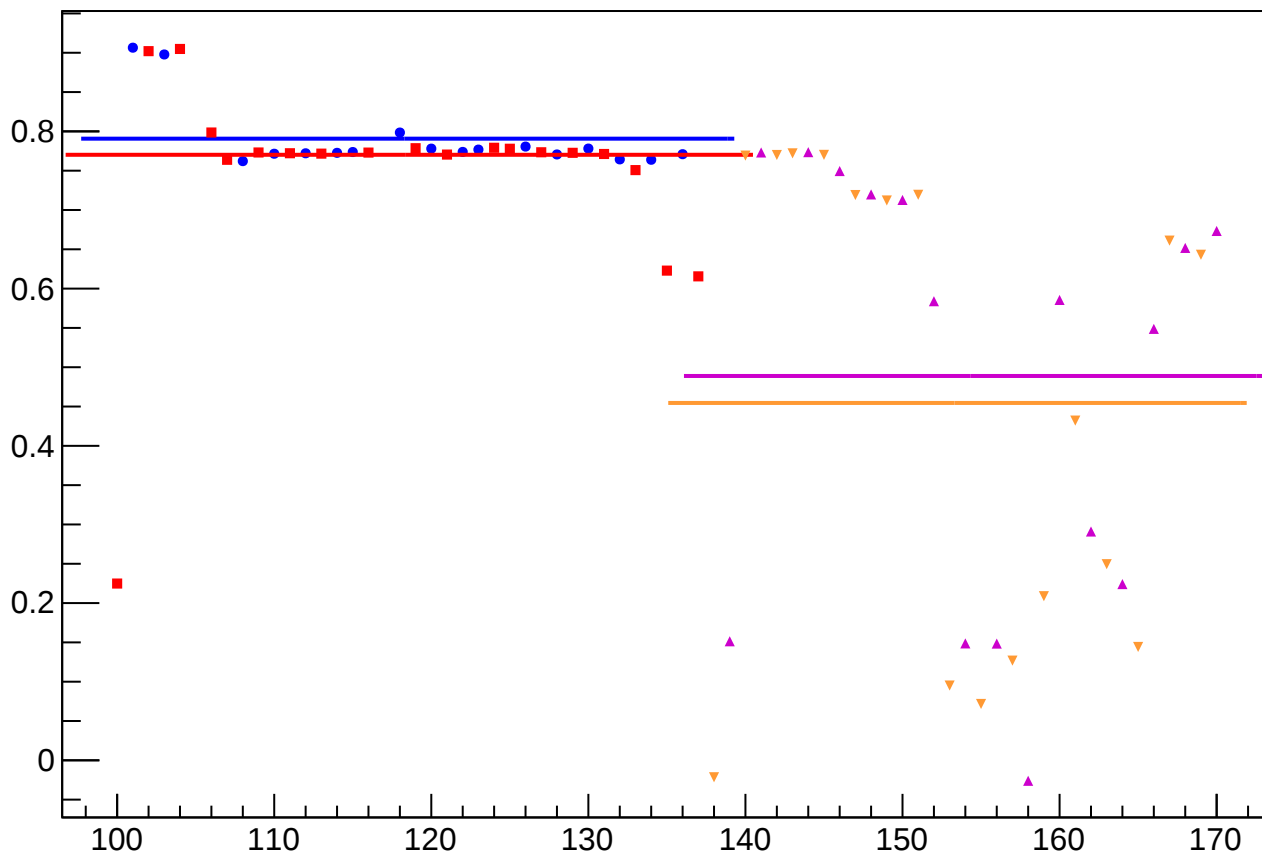
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :1968542.9/32

Out: 0.003+/-0.000 χ^2/NDF :2373875.1/35

All: 0.003+/-0.000 χ^2/NDF : 4342649.8/68

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.455 $\pm$ 0.000 χ^2 /NDF: 8242788706.3/16

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF: 7053628101.7/15

Left: 0.472 $\pm$ 0.000 χ^2 /NDF: 15354561212.1/32

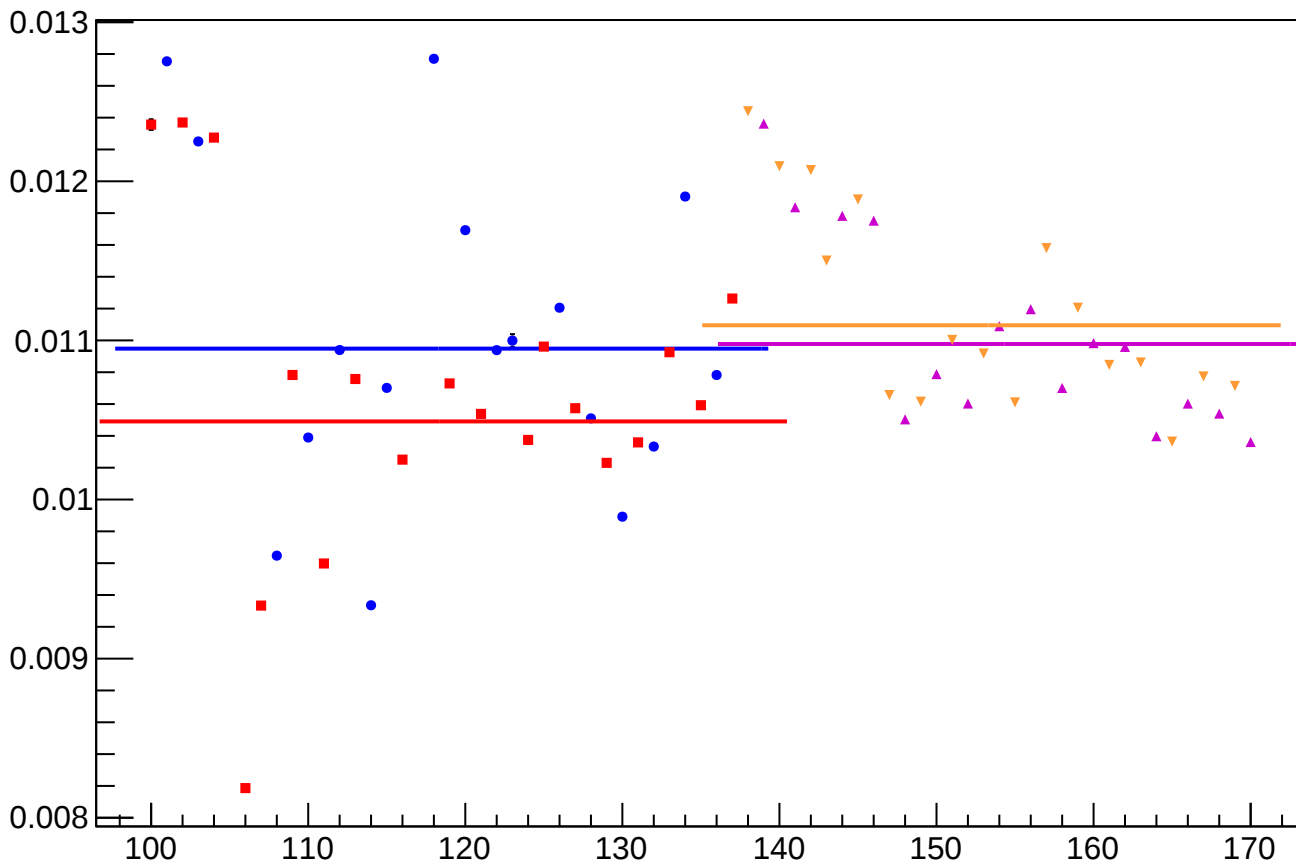
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.595 $\pm$ 0.000 χ^2 /NDF: 10337340683.3/32

Out: 0.577 $\pm$ 0.000 χ^2 /NDF: 12433202991.9/35

All: 0.586 $\pm$ 0.000 χ^2 /NDF: 22794591466.6/68

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 : 59779.6/15

Left: 0.011+/-0.000 χ^2/NDF : 123003.7/32

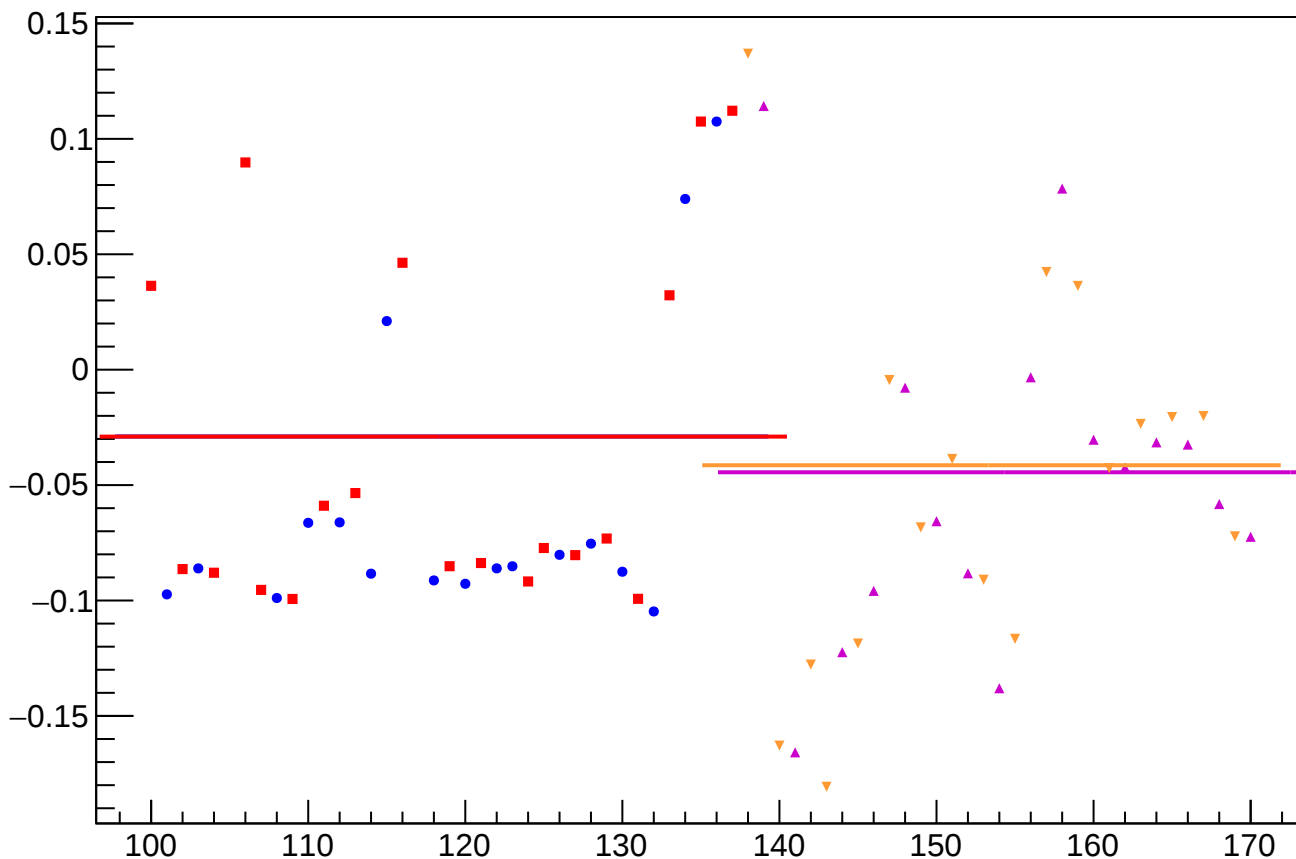
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 158390.1/32

Out: 0.011+/-0.000 χ^2/NDF : 209242.9/35

All: 0.011+/-0.000 χ^2/NDF : 369439.1/68

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.043+/-0.000

χ^2/NDF : 12810290687.9/32

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: -0.041+/-0.000

χ^2/NDF : 8453558473.6/32

Out: -0.039+/-0.000

χ^2/NDF : 9005935911.1/35

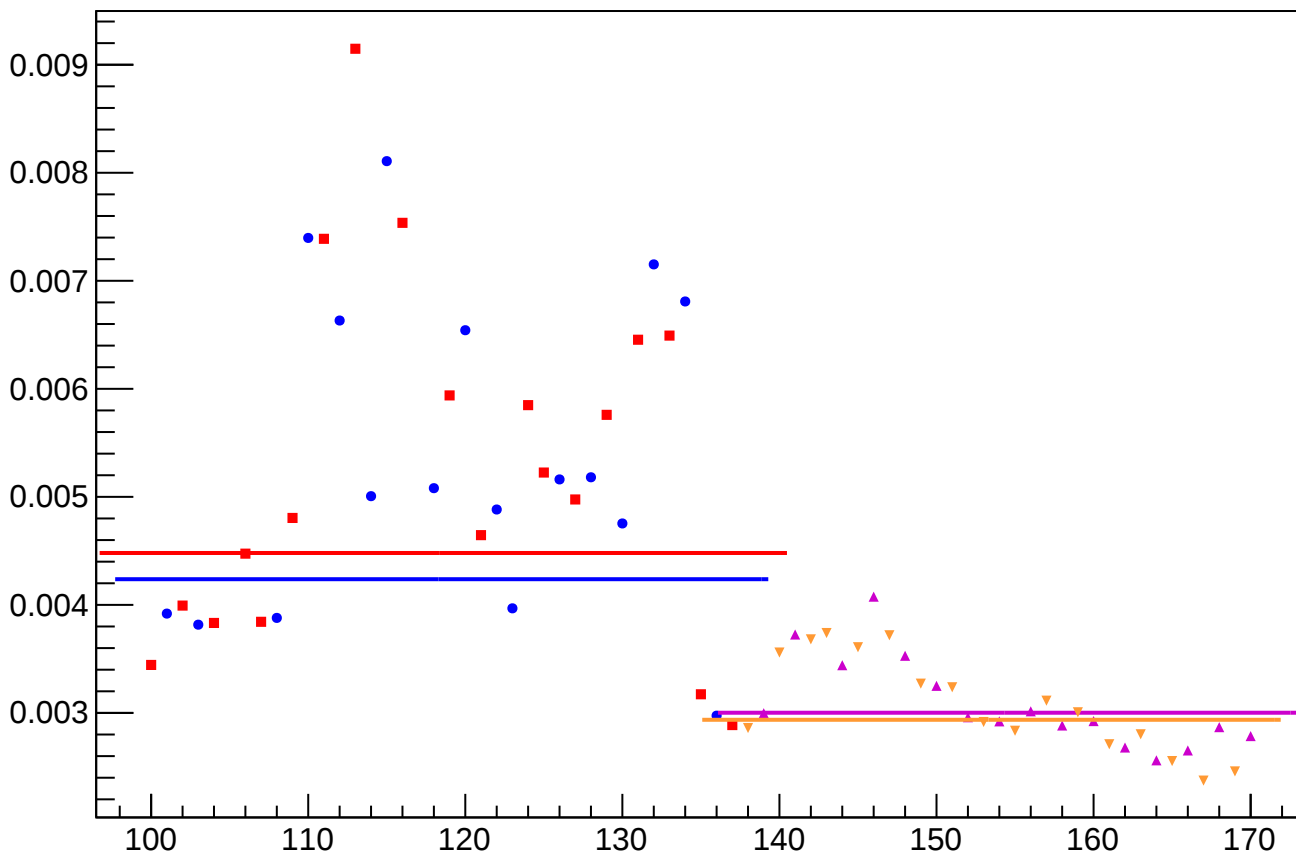
Left In: -0.044+/-0.000

χ^2/NDF : 5948444684.8/15

All: -0.040+/-0.000

χ^2/NDF : 17463632163.4/170

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 881584.1/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:459681.4/16

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 984186.1/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:308884.1/15

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 774176.0/32

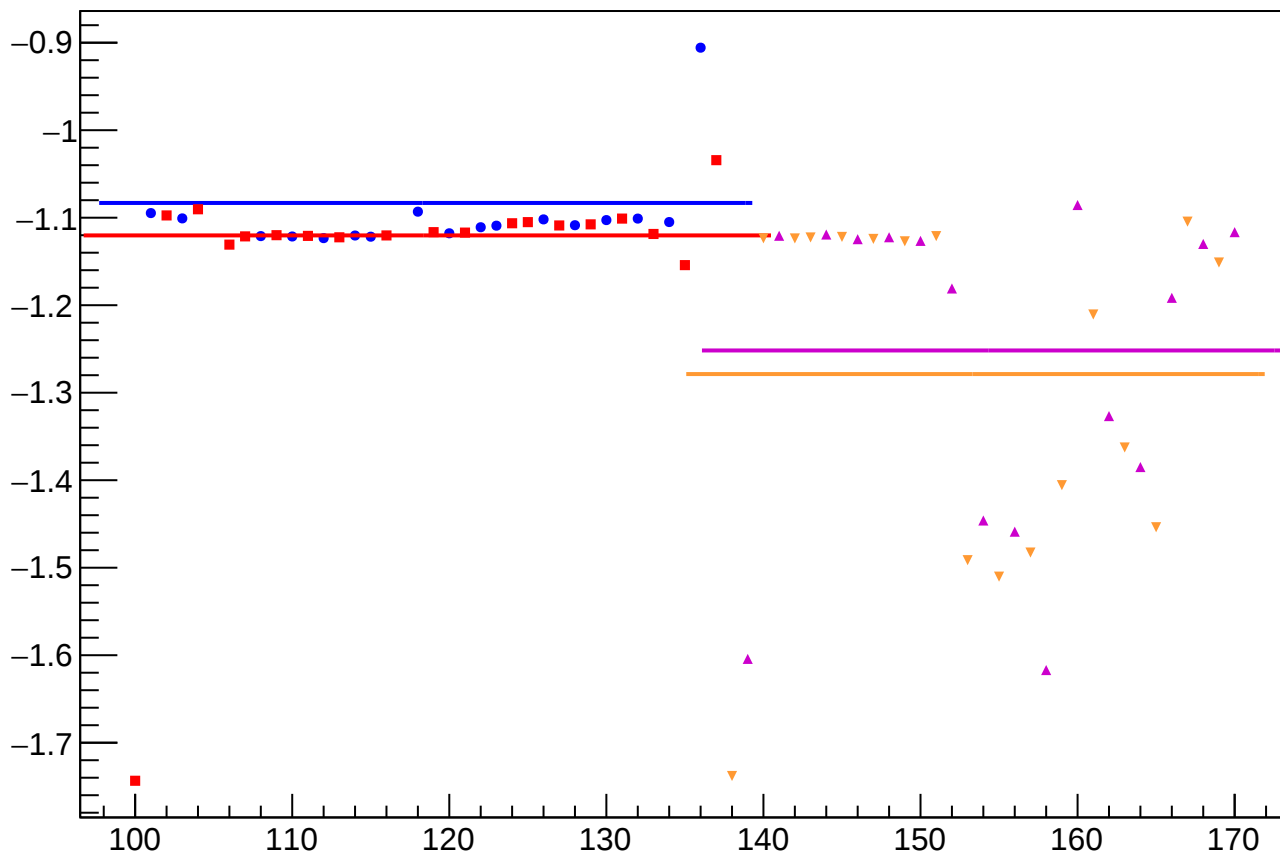
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1883305.7/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:1942375.2/32

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:2586002.6/35

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4529766.7/68

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: -1.252+/-0.000 χ^2/NDF : 3824513487.3/15

Left: -1.265+/-0.000 χ^2/NDF : 8055354468.3/32

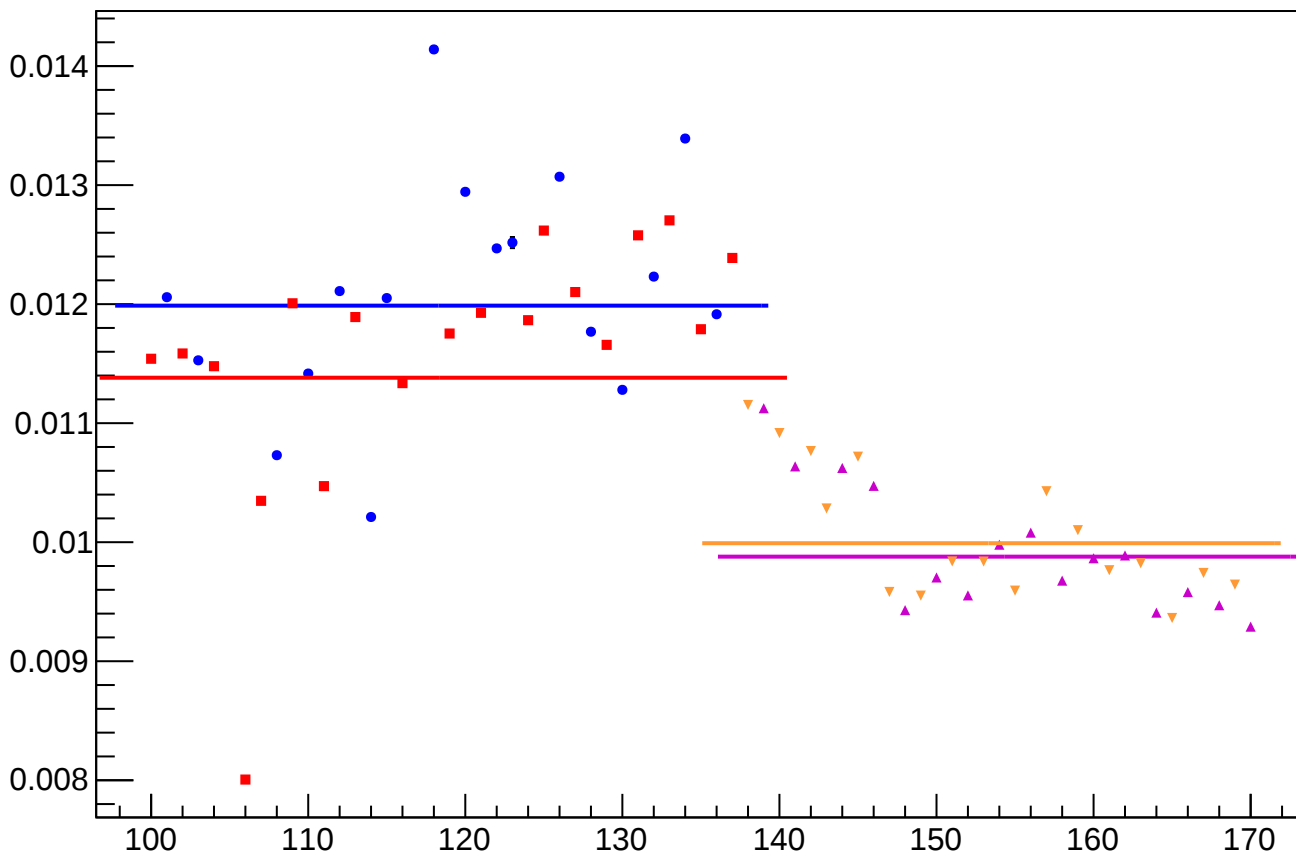
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.207+/-0.000 χ^2/NDF : 4960826629.5/32

Out: -1.231+/-0.000 χ^2/NDF : 5332497222.9/35

All: -1.219+/-0.000 χ^2/NDF : 10342707919.6/67

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:58406.1/15

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 119154.4/32

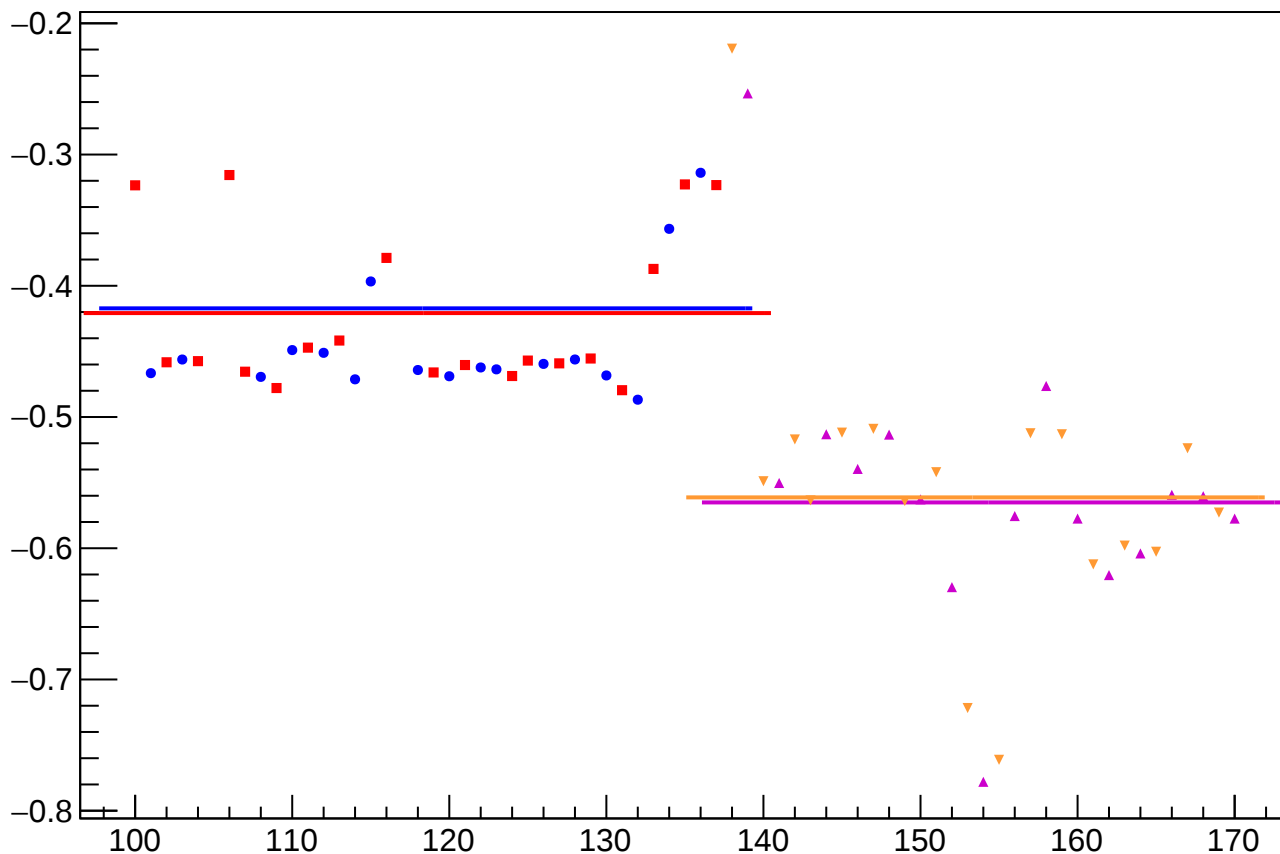
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:410908.0/32

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:356230.3/35

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 767284.1/68

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: -0.565+/-0.000 χ^2/NDF : 10421458859.0/15

Left: -0.563+/-0.000 χ^2/NDF : 23679453614.9/32

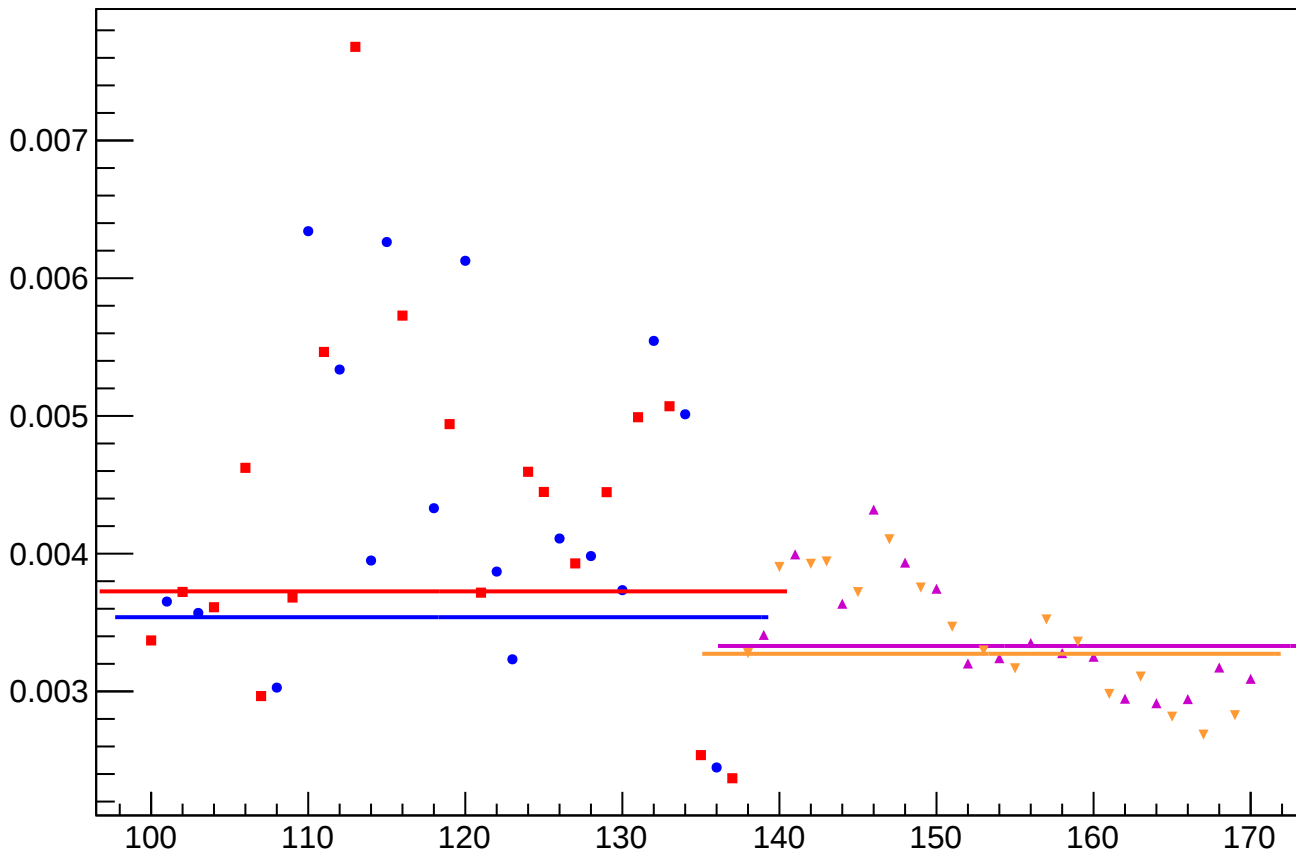
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.521+/-0.000 χ^2/NDF : 19163053384.1/32

Out: -0.522+/-0.000 χ^2/NDF : 20895404075.3/35

All: -0.522+/-0.000 χ^2/NDF : 40058667348.8/70

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 : 261710.3/15

Left: 0.003+/-0.000 χ^2/NDF : 634945.7/32

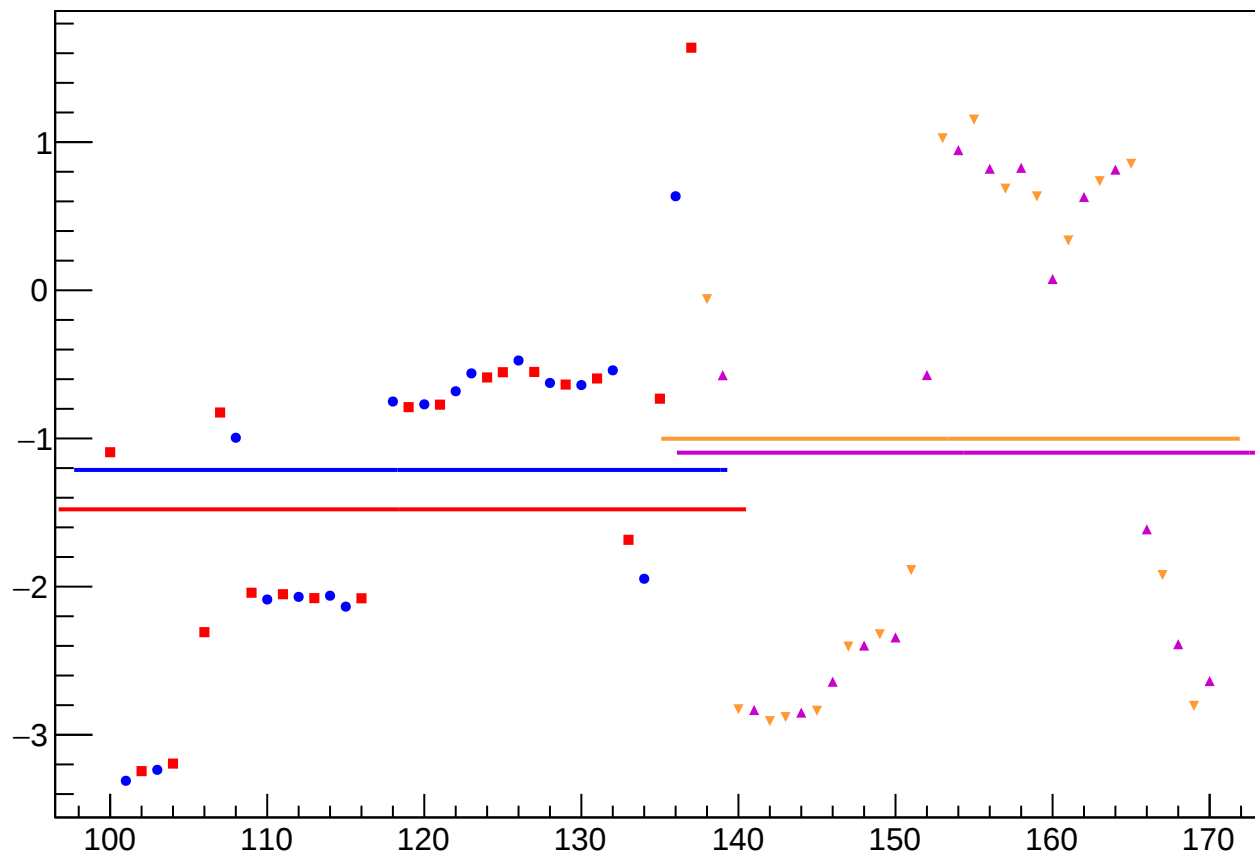
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1124620.7/32

Out: 0.003+/-0.000 χ^2/NDF : 1393200.4/35

All: 0.003+/-0.000 χ^2/NDF : 2517921.5/68

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.002+/-0.000 χ^2/NDF : 5801021096.9/16

Right Out: -1.478+/-0.000 χ^2/NDF : 1578264383.8/18

Left In: -1.096+/-0.000 χ^2/NDF : 4917540264.4/15

Left: -1.048+/-0.000 χ^2/NDF : 10728165096.5/32

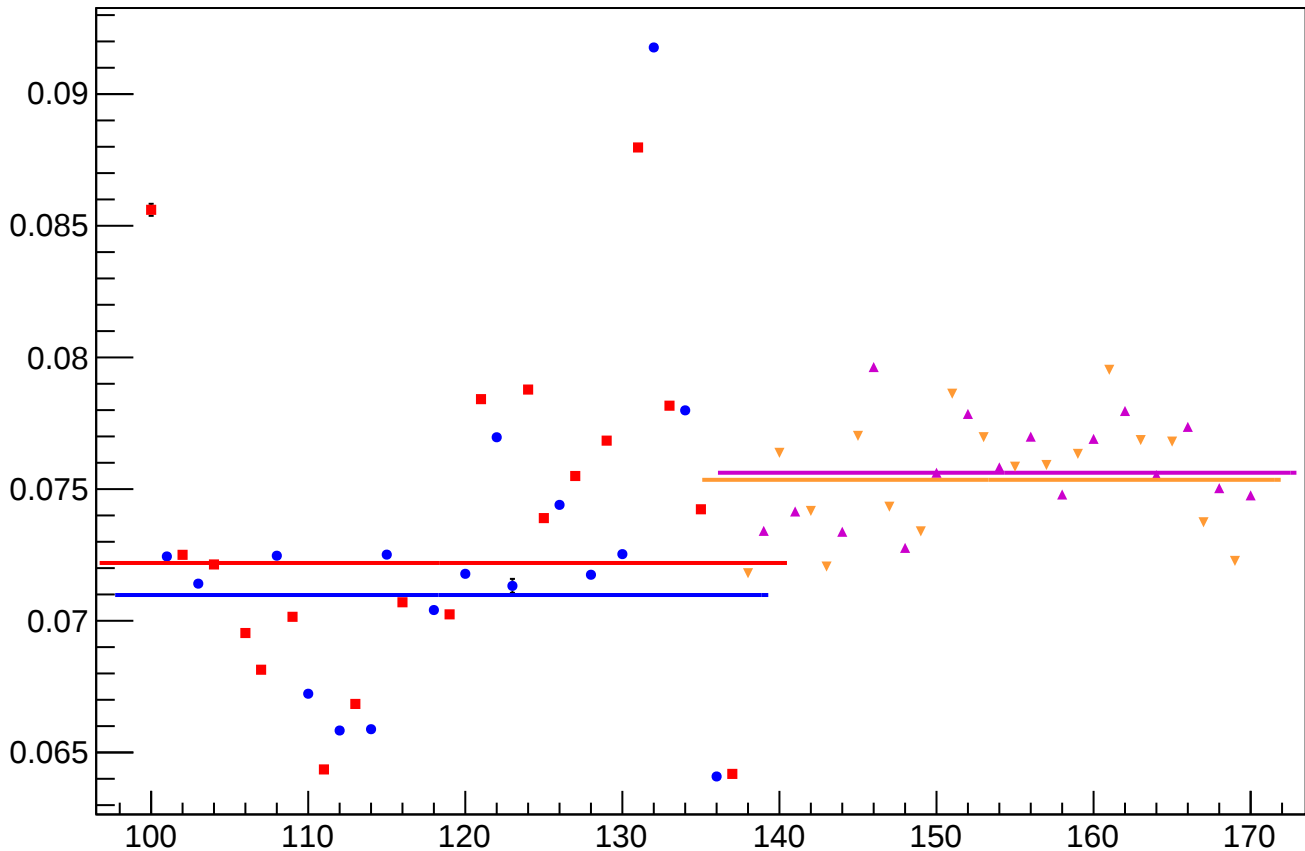
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -1.140+/-0.000 χ^2/NDF : 6921366609.4/32

Out: -1.182+/-0.000 χ^2/NDF : 7567781220.1/35

All: -1.161+/-0.000 χ^2/NDF : 14492215815.8

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 : 14300.7/15

Left: 0.075+/-0.000 χ^2/NDF : 36057.8/32

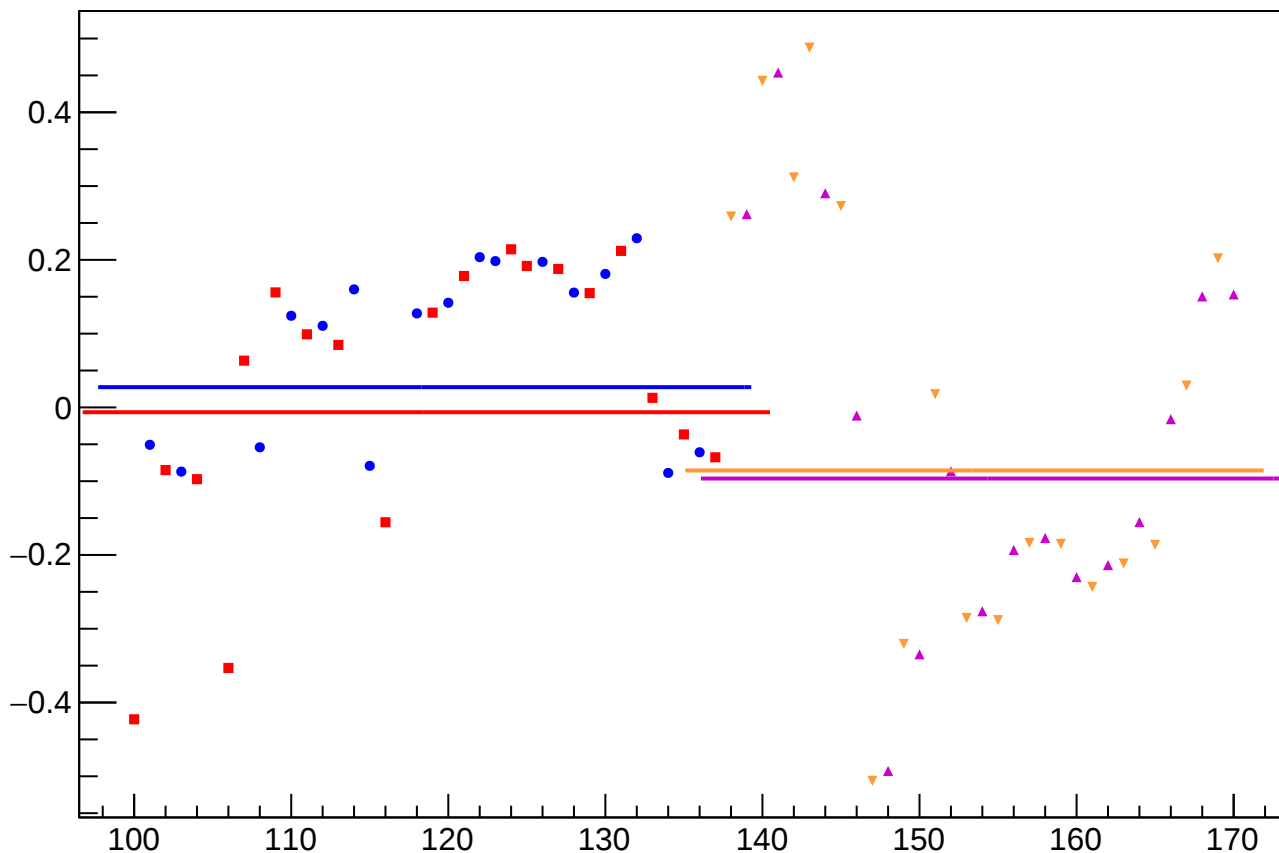
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 126817.4/32

Out: 0.074+/-0.000 χ^2/NDF : 111384.3/35

All: 0.074+/-0.000 χ^2/NDF : 238508.6/68

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.091+/-0.000

χ^2/NDF : 29003724022.5/32

Left Out: -0.085+/-0.000

χ^2/NDF : 16424090673.9/16

Right: 0.010+/-0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000

χ^2/NDF : 1199278894.0/18

In: -0.079+/-0.000

χ^2/NDF : 13702593246.1/32

Left In: -0.096+/-0.000

χ^2/NDF : 12563347903.0/15

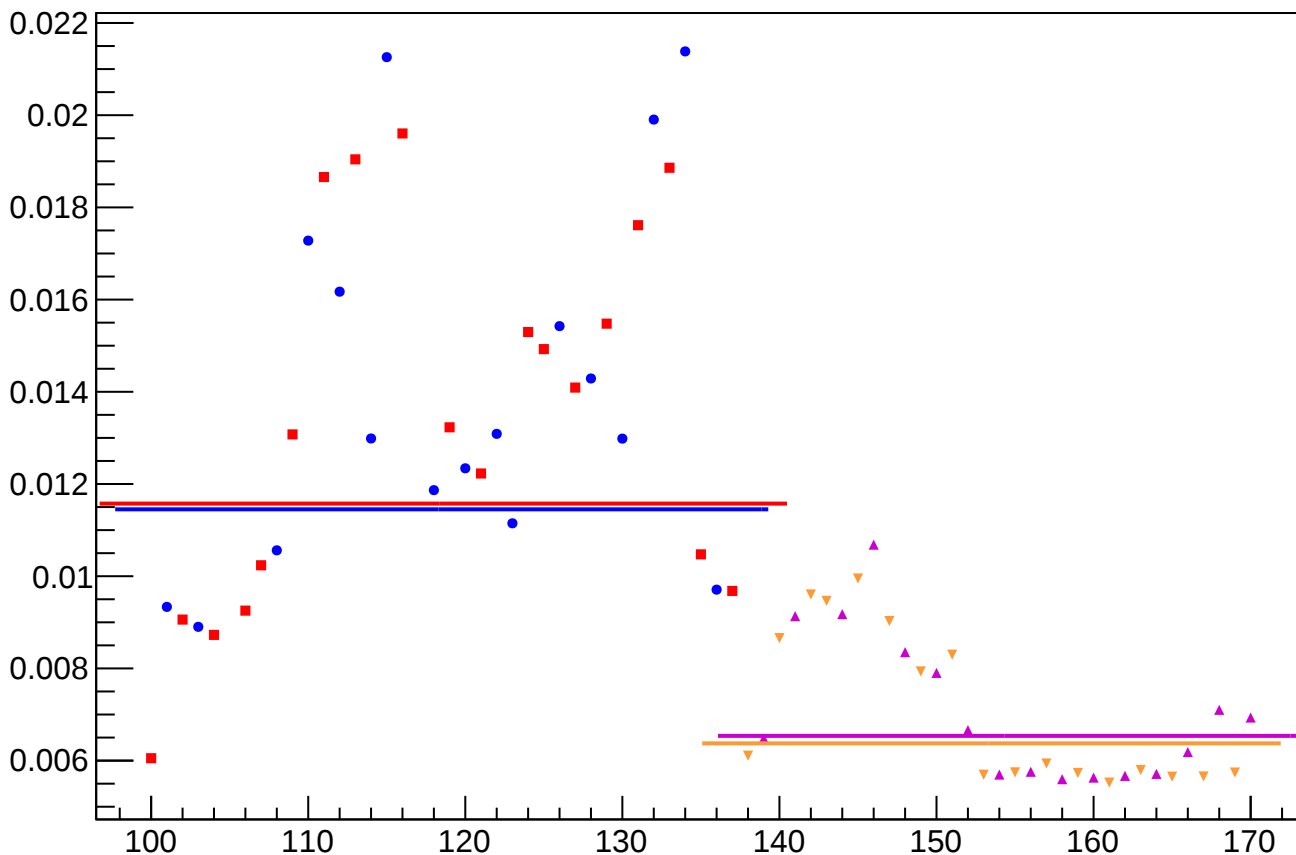
Out: -0.075+/-0.000

χ^2/NDF : 17862176449.6/35

All: -0.077+/-0.000

χ^2/NDF : 31567350852.7/168

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 : 796970.1/15

Left: 0.006+/-0.000 χ^2/NDF : 1730197.0/32

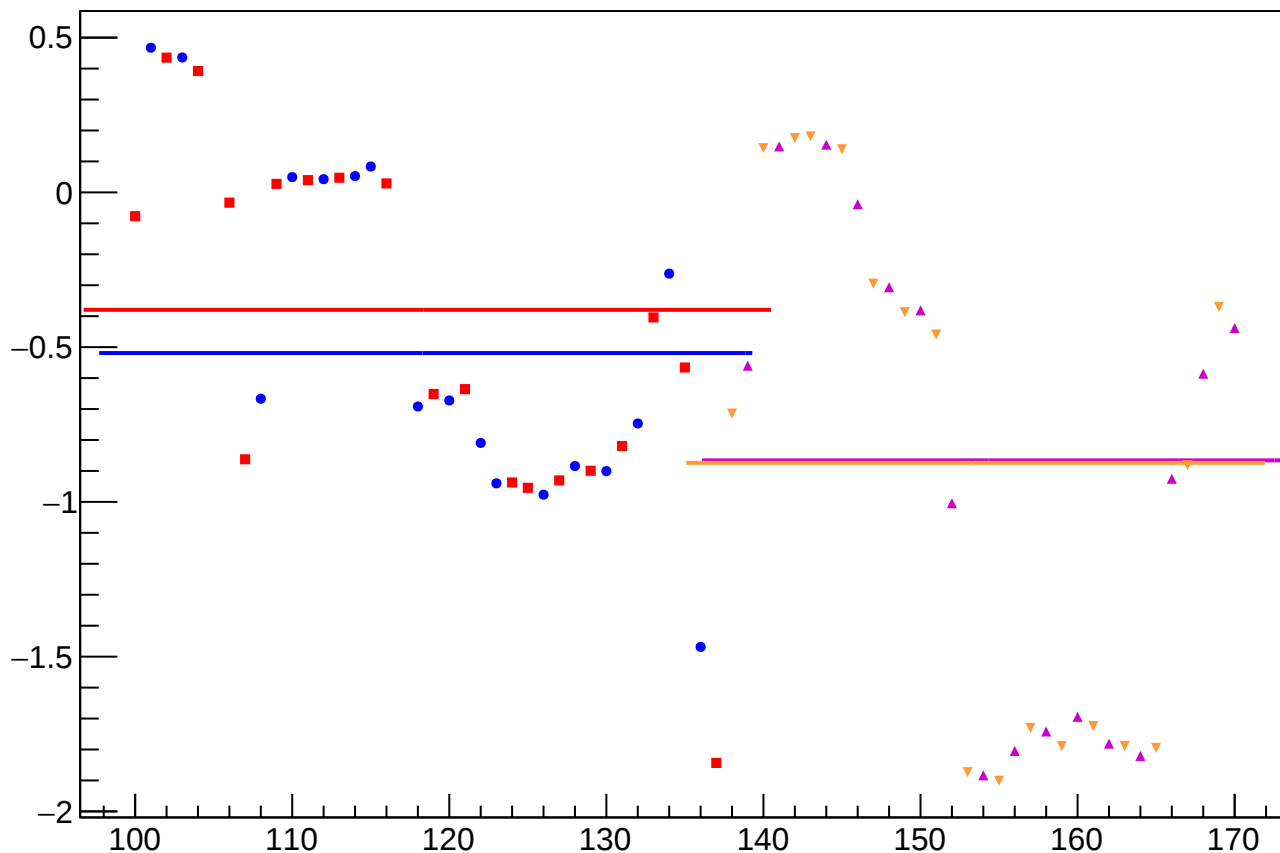
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF : 3293018.1/32

Out: 0.007+/-0.000 χ^2/NDF : 3994238.3/35

All: 0.007+/-0.000 χ^2/NDF : 7294941.6/68

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: -0.866 ± 0.000 χ^2/NDF : 885421284.6/15

Left: -0.870 ± 0.000 χ^2/NDF : 1924111872.8/32

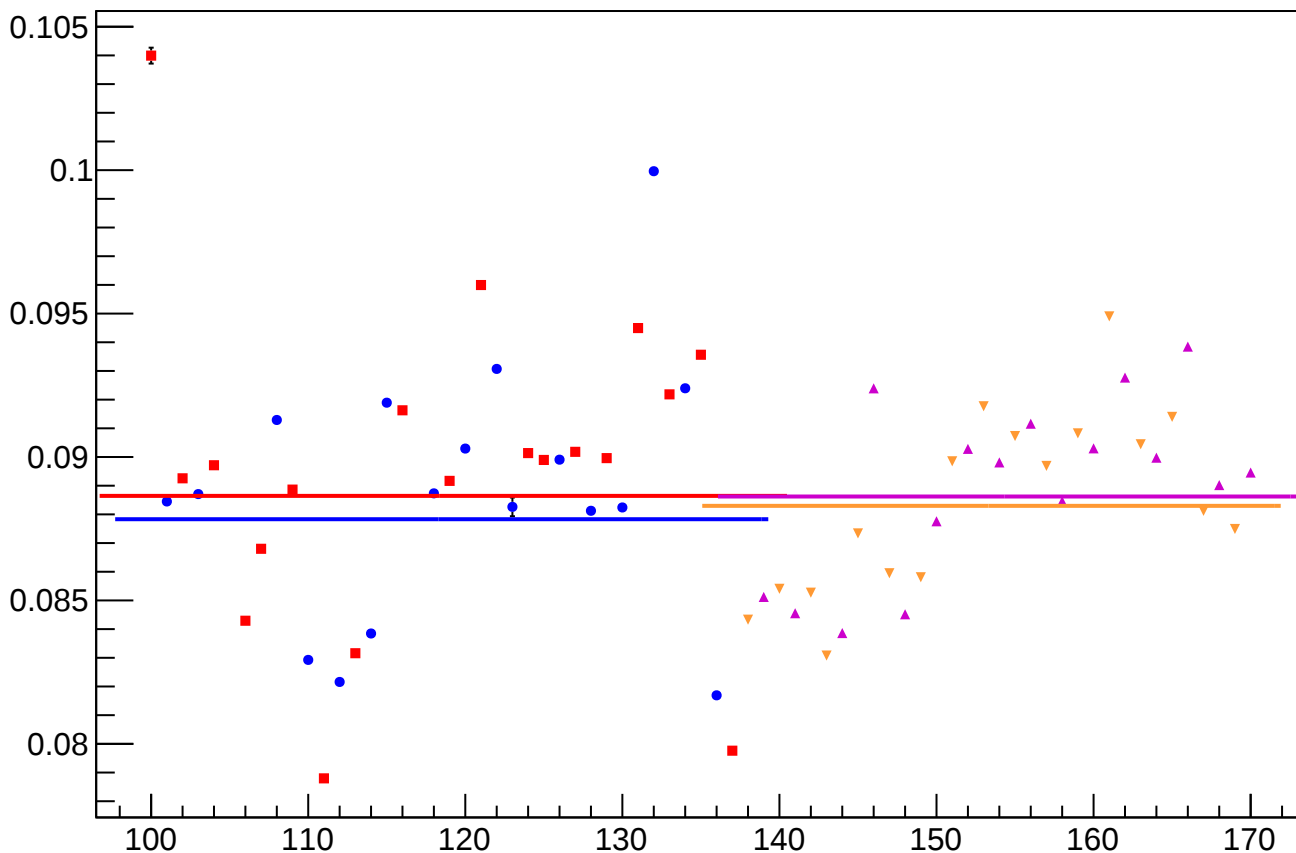
Right: -0.448 ± 0.000 χ^2/NDF : 616632603.2/35

In: -0.743 ± 0.000 χ^2/NDF : 1292016891.6/32

Out: -0.697 ± 0.000 χ^2/NDF : 1448762470.8/35

All: -0.719 ± 0.000 χ^2/NDF : 2743427682.9/6

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 : 27699.8/15

Left: 0.088+/-0.000 χ^2/NDF : 57384.4/32

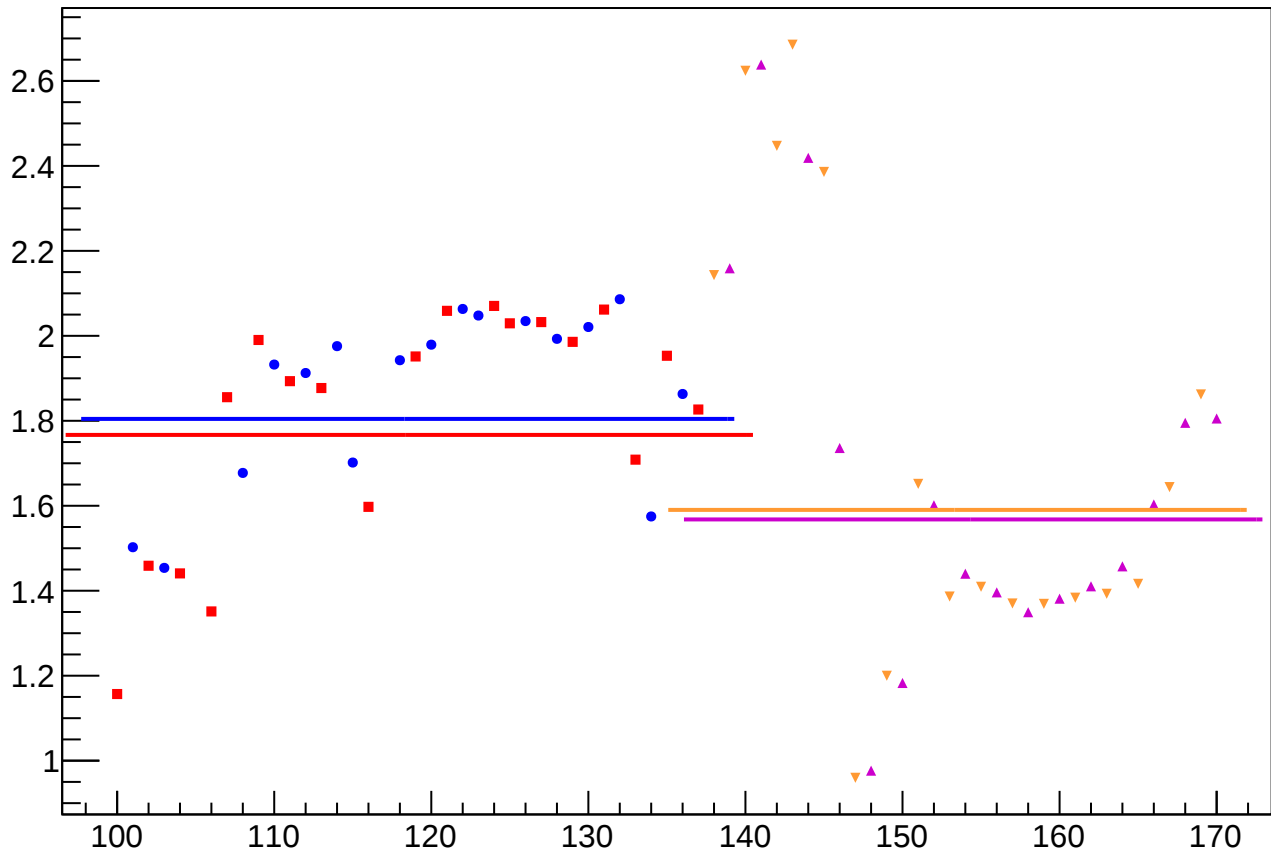
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 63355.2/32

Out: 0.088+/-0.000 χ^2/NDF : 69378.1/35

All: 0.088+/-0.000 χ^2/NDF : 132749.0/68

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: 1.568 $\pm$ 0.000 χ^2 /NDF: 18931248179.6/15

Left: 1.579 $\pm$ 0.000 χ^2 /NDF: 43289371438.4/32

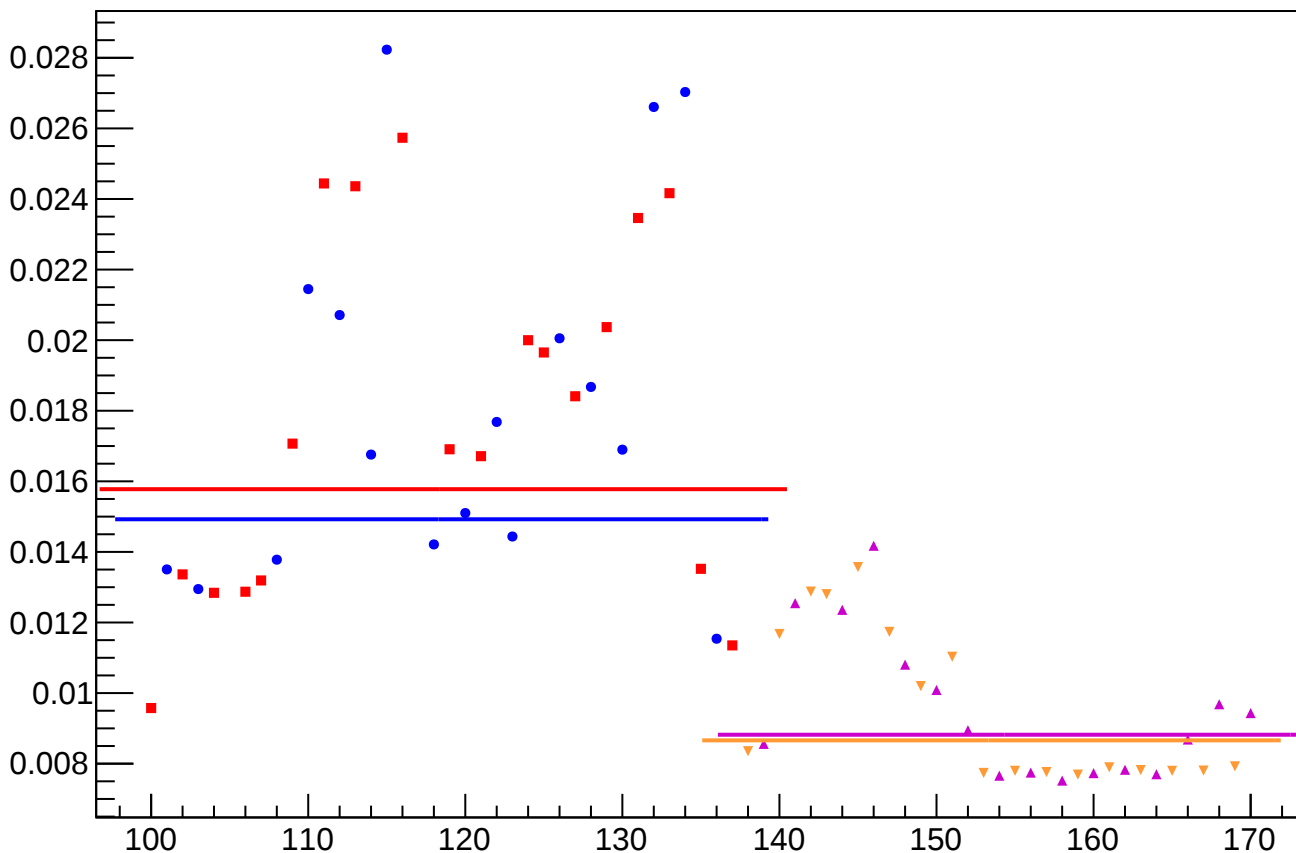
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.603 $\pm$ 0.000 χ^2 /NDF: 21318407898.4/32

Out: 1.614 $\pm$ 0.000 χ^2 /NDF: 26682545961.4/35

All: 1.609 $\pm$ 0.000 χ^2 /NDF: 48011551159.8/66

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 : 745066.0/15

Left: 0.009+/-0.000 χ^2/NDF : 1591607.4/32

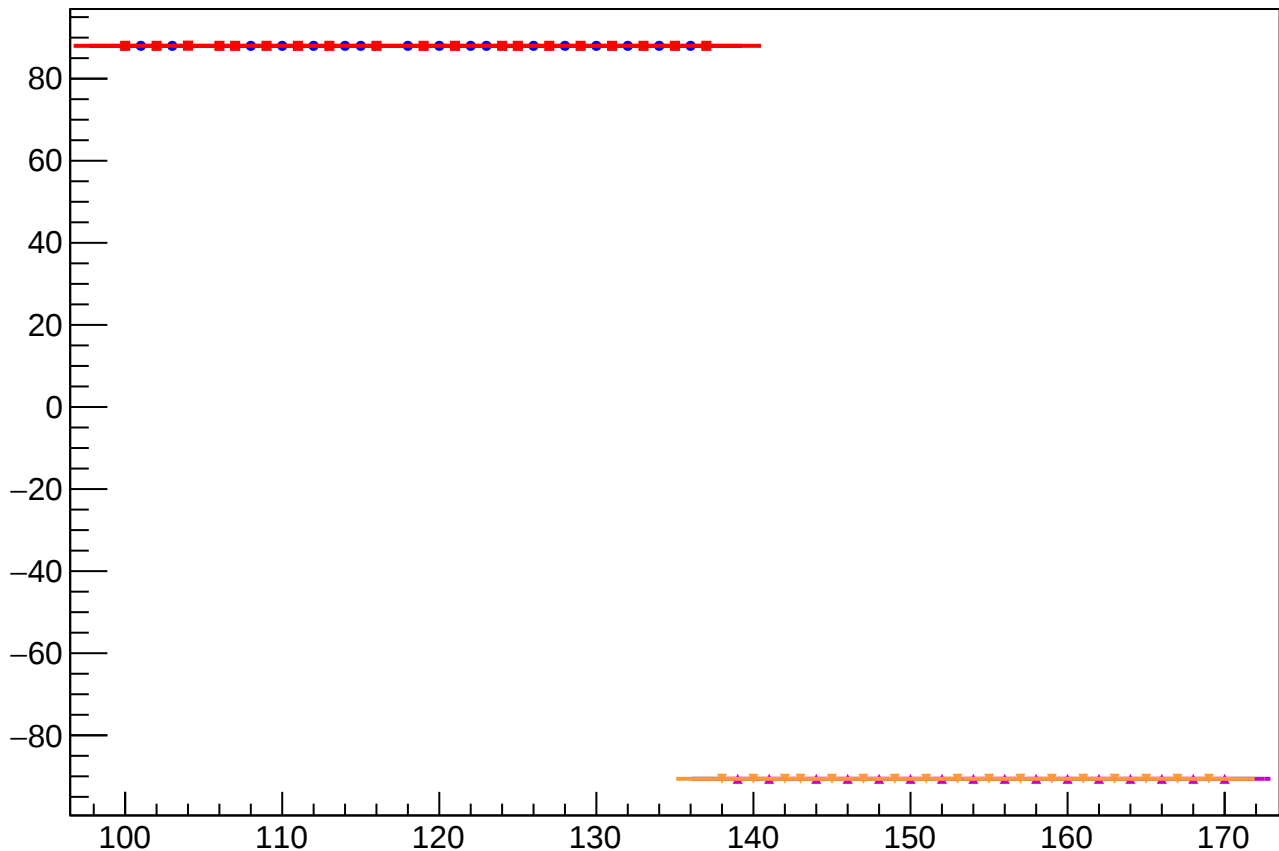
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3026637.4/32

Out: 0.010+/-0.000 χ^2/NDF : 3753521.7/35

All: 0.010+/-0.000 χ^2/NDF : 6782345.0/68

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 : 5682423.8/15

Left: -90.599+/-0.000 χ^2/NDF : 10327438.8/32

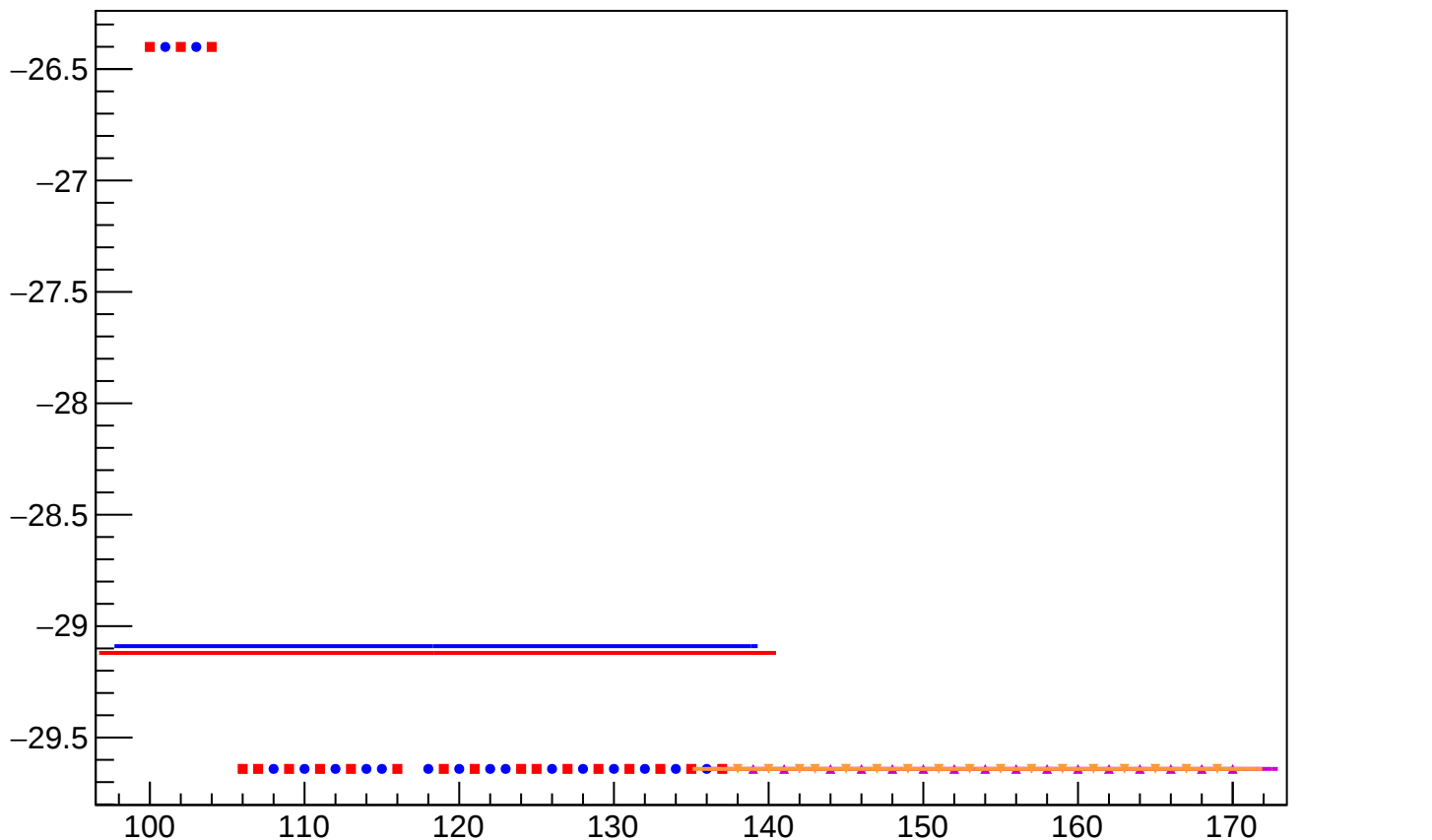
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -27.999+/-0.000 χ^2/NDF : 14377989359919172

Out: -27.201+/-0.000 χ^2/NDF : 1485582895940369

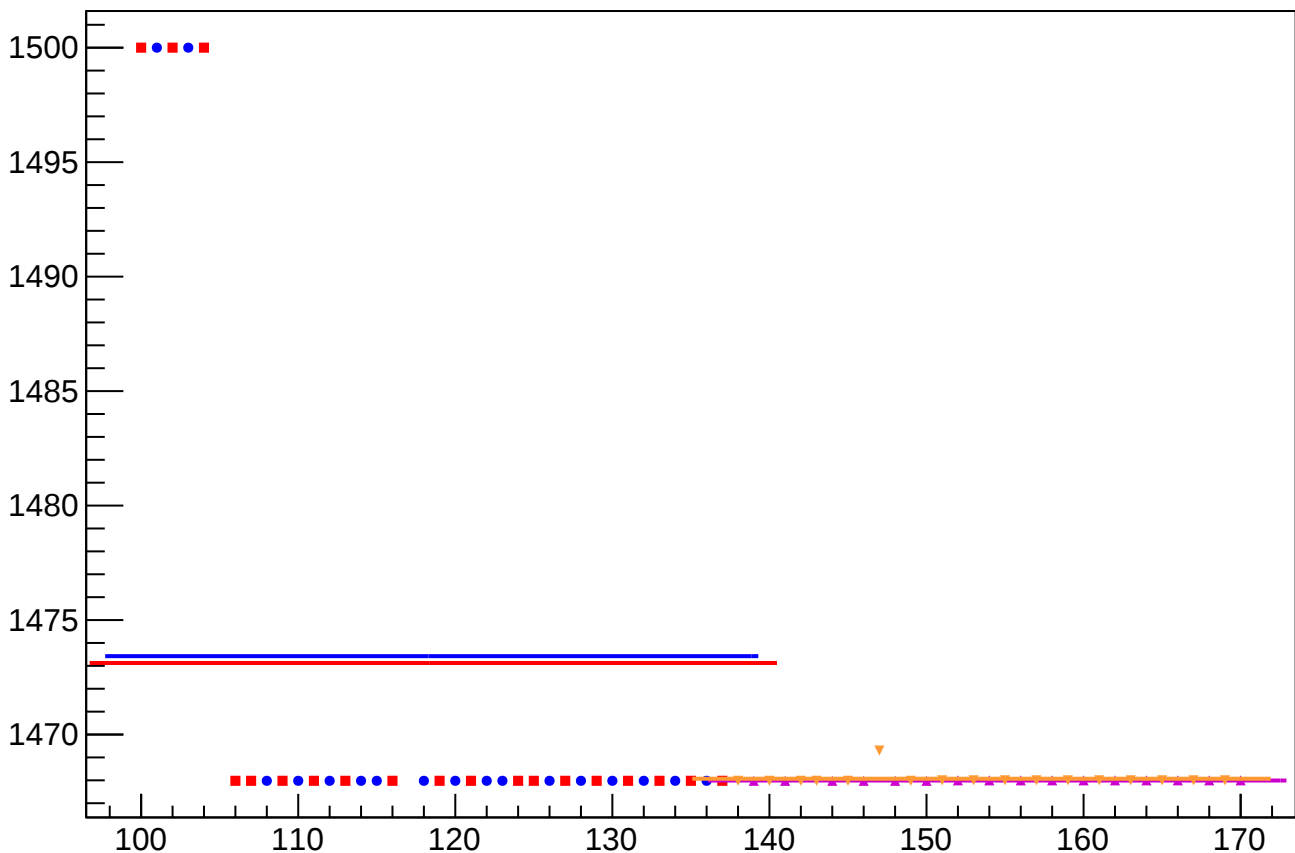
All: -27.595+/-0.000 χ^2/NDF : 292344567012

epics_HWienAngles_mean vs Slug, Sign Corrected



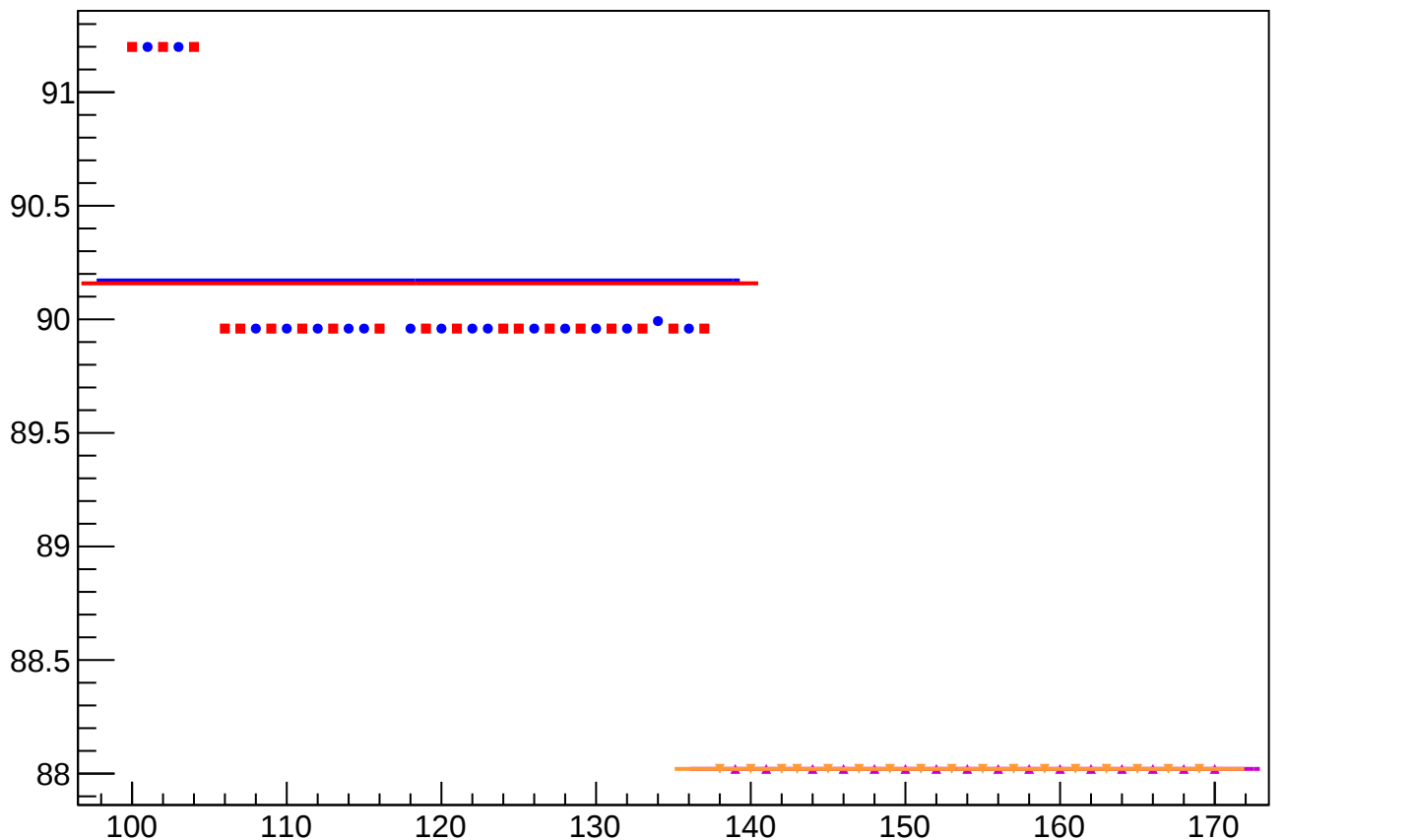
Right In: -29.090+/-0.000	χ^2/NDF : 1028099246109521929793835198578688.0/16	Left: -29.641+/-0.000	χ^2/NDF : 361676.9/32
Left Out: -29.641+/-0.000	χ^2/NDF : 221348.1/16	Right: -29.105+/-0.000	χ^2/NDF : 205050154576273.0
Right Out: -29.120+/-0.000	χ^2/NDF : 1022076578393359839206130891882496.0/18	In: -29.448+/-0.000	χ^2/NDF : 11648942836363510
Left In: -29.641+/-0.000	χ^2/NDF : 140328.9/15	Out: -29.456+/-0.000	χ^2/NDF : 1148274350442456
		All: -29.452+/-0.000	χ^2/NDF : 231323795515

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000	χ^2/NDF : 100421295828245505125784497044848640.0/16	Left: 1468.031+/-0.000	χ^2/NDF : 130007259023861
Left Out: 1468.070+/-0.000	χ^2/NDF : 125879565145714116034648365596672.0/16	Right: 1473.271+/-0.000	χ^2/NDF : 20028613298037
Right Out: 1473.124+/-0.000	χ^2/NDF : 99833021788859785886082809393577984.0/18	In: 1469.896+/-0.000	χ^2/NDF : 1137232450078237
Left In: 1467.992+/-0.000	χ^2/NDF : 122328149272076613380648992768.0/15	Out: 1469.864+/-0.000	χ^2/NDF : 111854484201187
	All: 1469.880+/-0.000	χ^2/NDF : 22557872779	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 4510719.3/16

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5267823.8/15

Left: 88.021+/-0.000 χ^2/NDF : 9670298.7/32

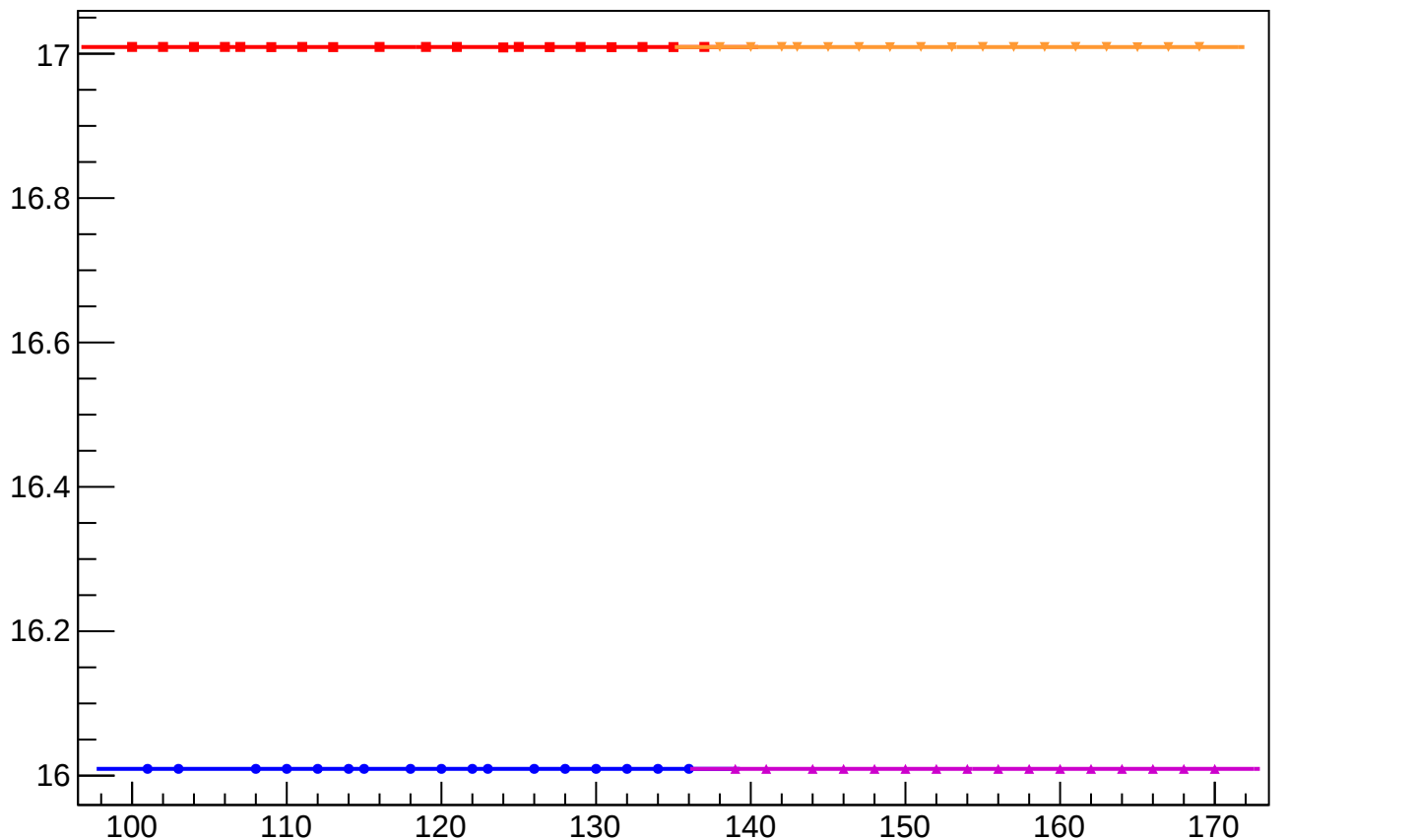
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.774+/-0.000 χ^2/NDF : 223473905127549913

Out: 88.780+/-0.000 χ^2/NDF : 22781460590225913

All: 88.777+/-0.000 χ^2/NDF : 4512911364977

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 19455043727541373398679552.0/16

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 125589913746343058210816.0/15

Left: 16.513 $\pm$ 0.000 χ^2 /NDF: 60031045814085483

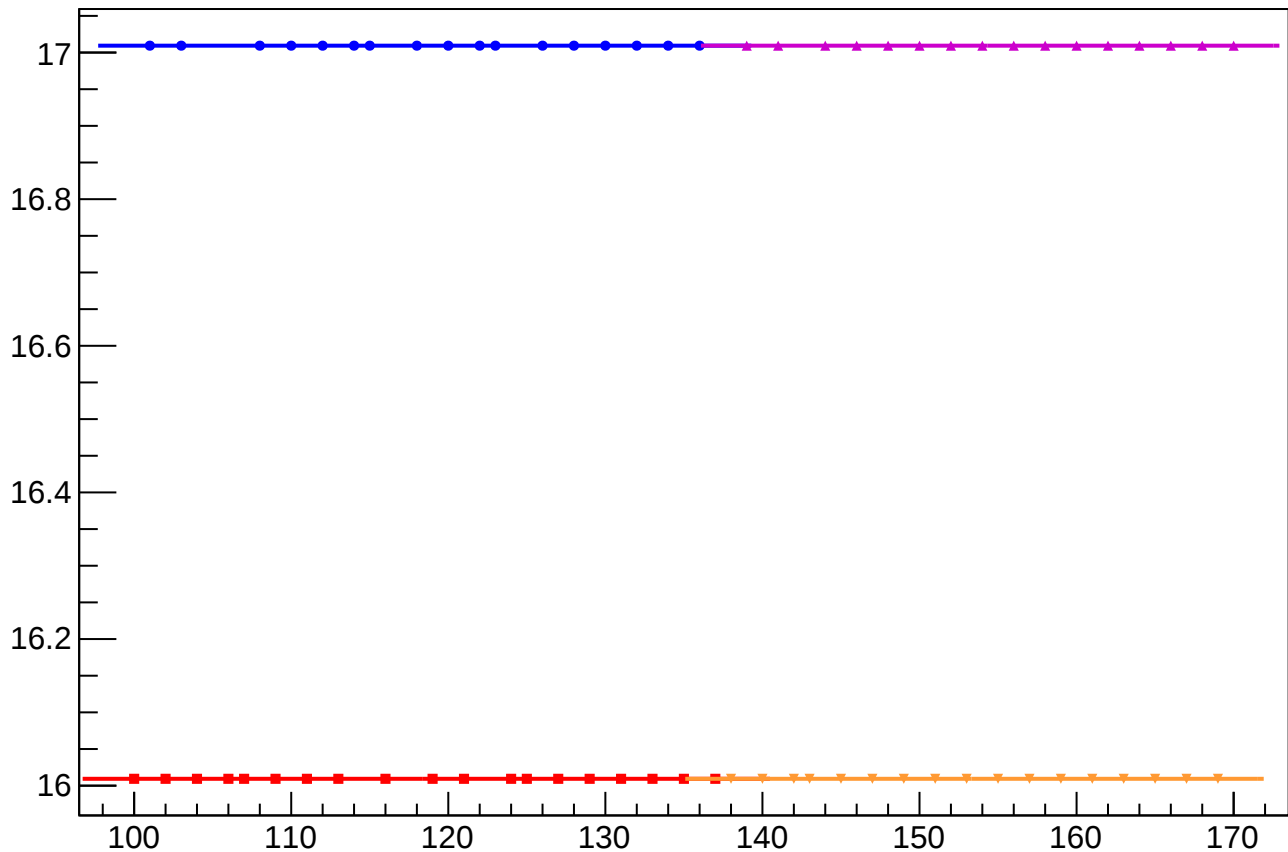
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 128511197073545805

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 32928577369331928

All: 16.510 $\pm$ 0.000 χ^2 /NDF: 9292727997539

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 53857.1/16

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 112849507787674541359104.0/15

Left: 16.502 $\pm$ 0.000 χ^2 /NDF: 64235636198443333

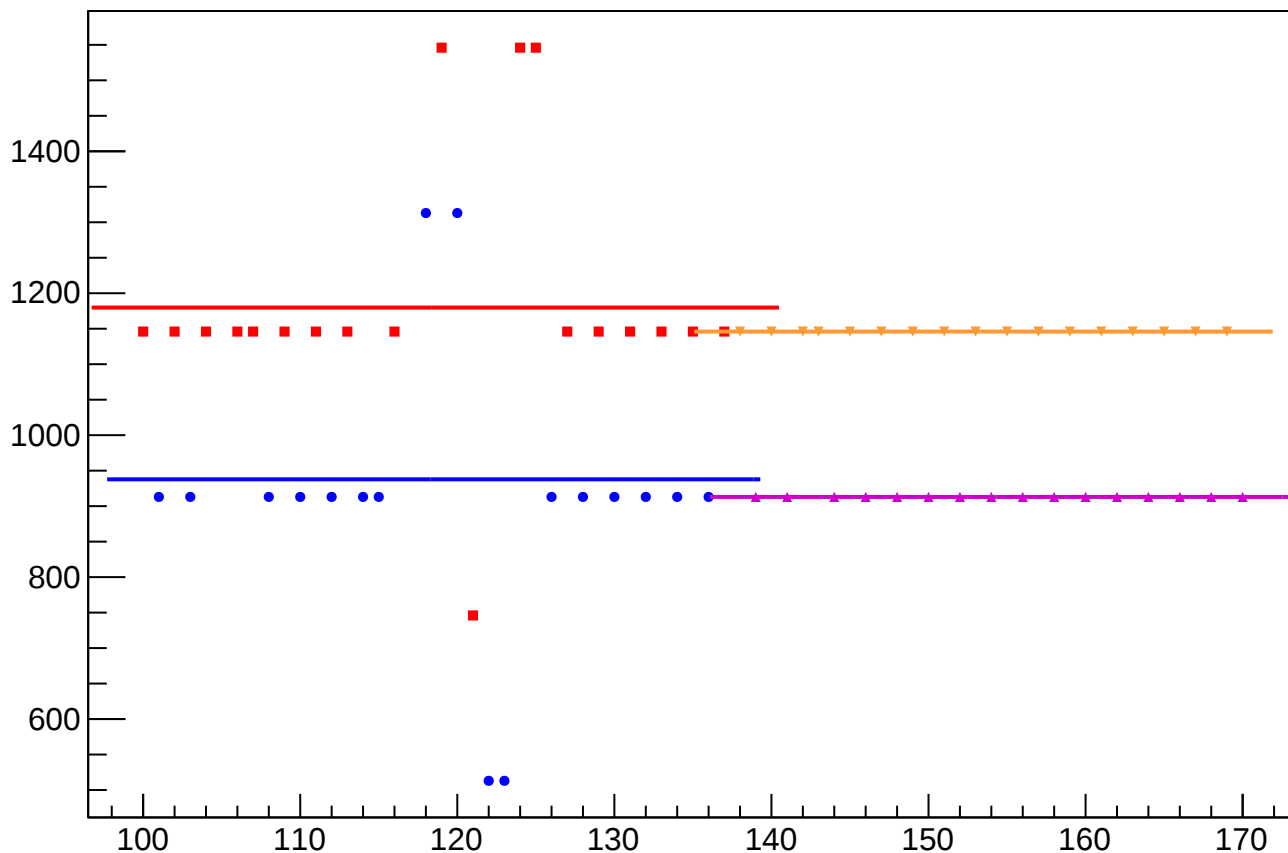
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 115498113459710230

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 284292.8/35

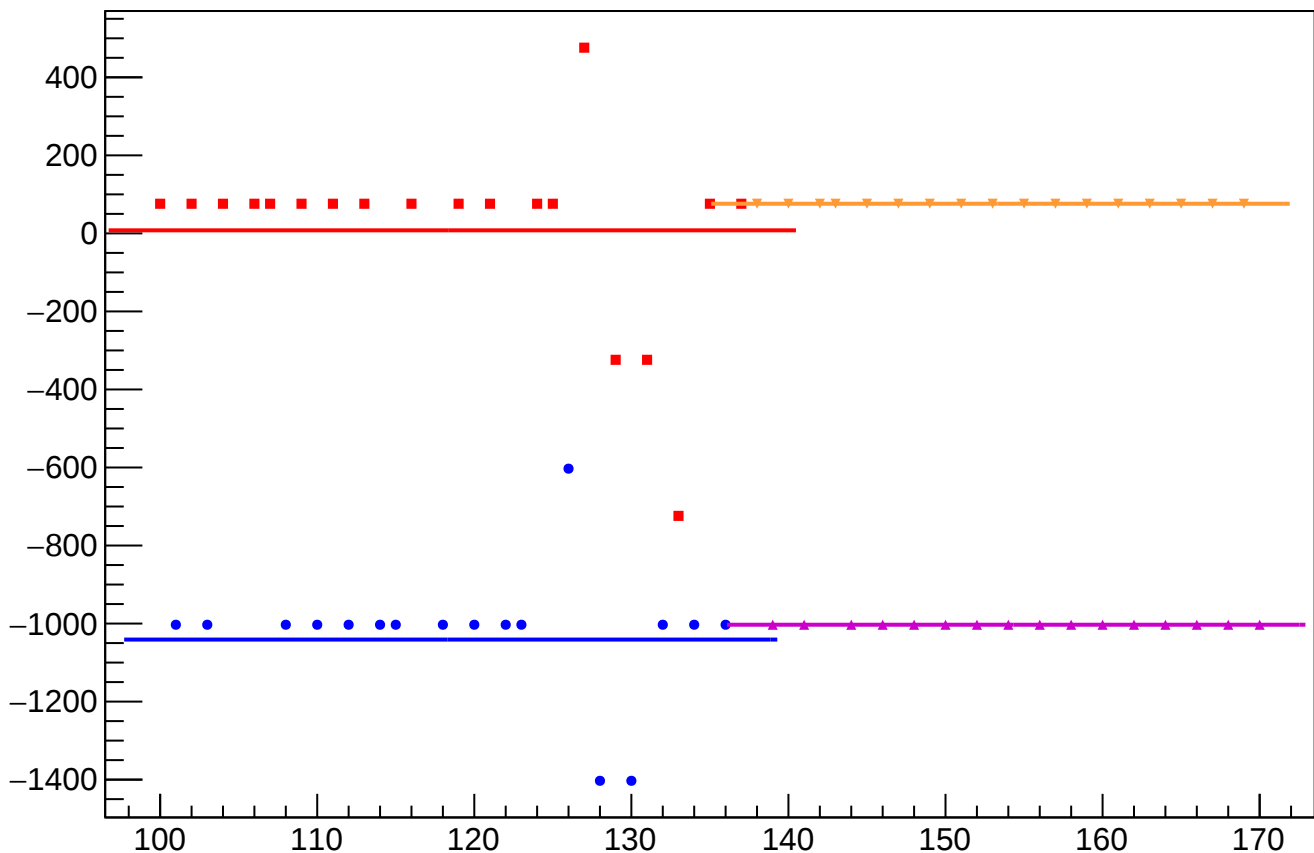
All: 16.498 $\pm$ 0.000 χ^2 /NDF: 9862222907818

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1030.669+/-0.000 χ^2/NDF : 352621879140318
 Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 4448656479097216627457916928.0/16
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 18081834853671114735039283200.0/15
 All: 1041.434+/-0.000 χ^2/NDF : 99114781405

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 : 1968619270201557585938612224.0/15
 All: -475.066+/-0.000 χ^2/NDF : 12140559996