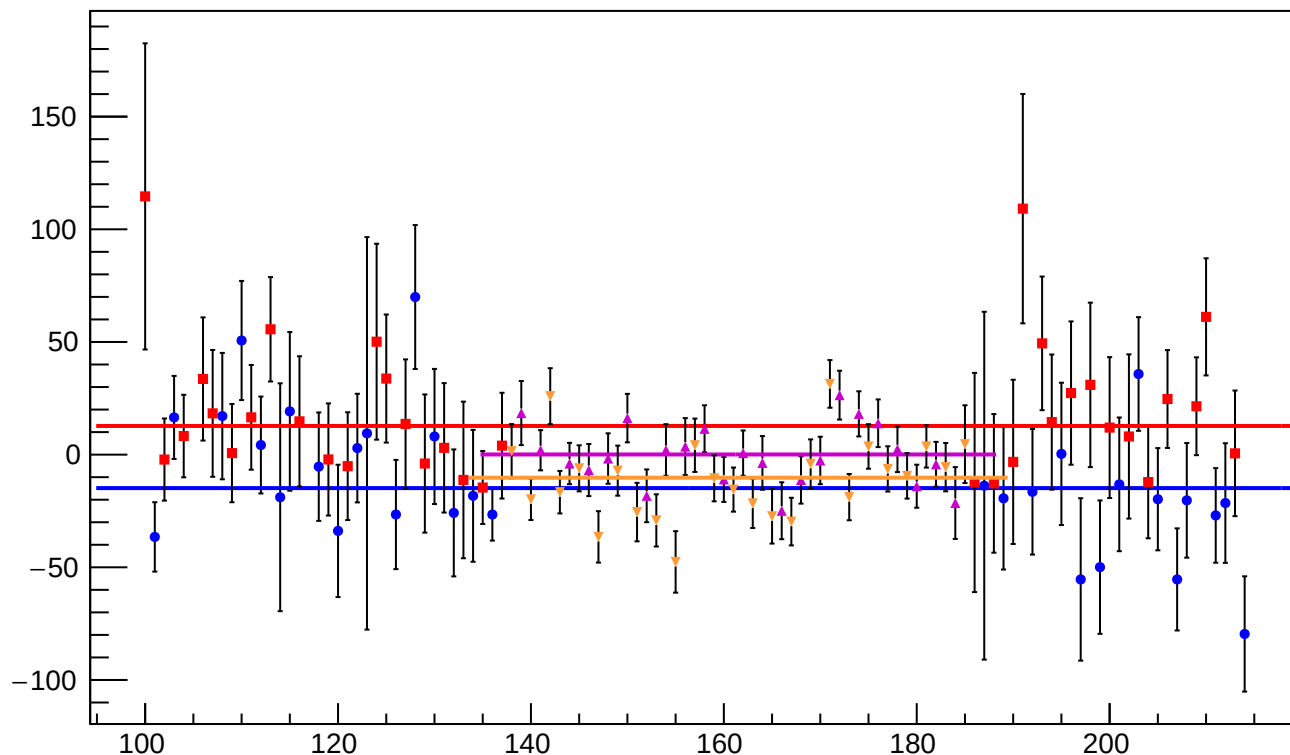


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -14.847 ± 4.454

$\chi^2/\text{NDF}: 41.4/30$

Left Out: -10.238 ± 2.170

$\chi^2/\text{NDF}: 58.1/24$

Right Out: 12.736 ± 4.569

$\chi^2/\text{NDF}: 25.3/33$

Left In: 0.080 ± 2.251

$\chi^2/\text{NDF}: 29.9/22$

Left: -5.266 ± 1.562

$\chi^2/\text{NDF}: 98.9/47$

Right: -1.405 ± 3.189

$\chi^2/\text{NDF}: 85.3/64$

In: -2.956 ± 2.009

$\chi^2/\text{NDF}: 80.2/53$

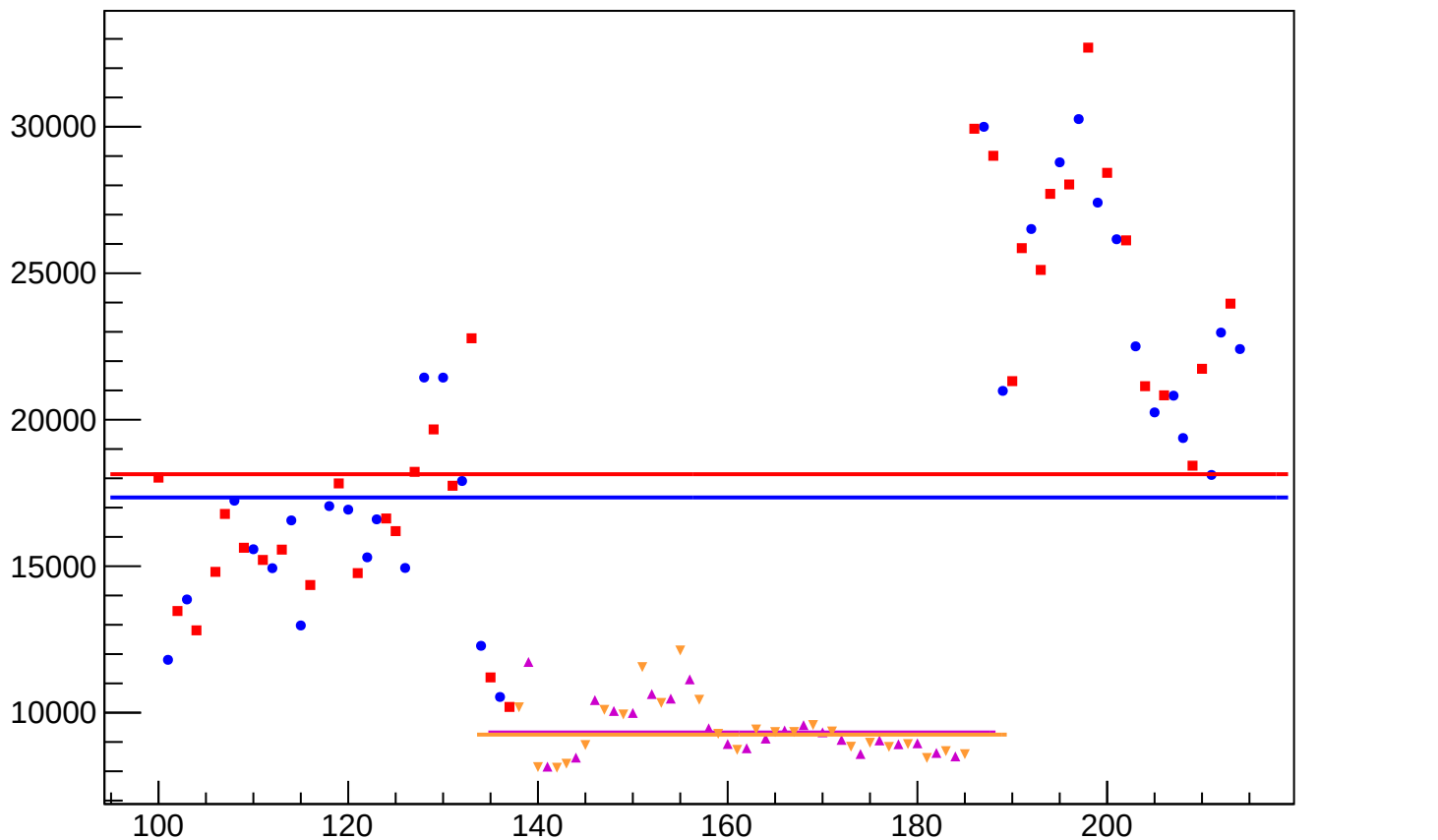
Out: -6.008 ± 1.960

$\chi^2/\text{NDF}: 104.1/58$

All: -4.519 ± 1.403

$\chi^2/\text{NDF}: 185.4/112$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17346.456 ± 3.150 $\chi^2/\text{NDF}: 2826467.8/30$

Left Out: 9251.811 ± 1.535 $\chi^2/\text{NDF}: 332323.3/24$

Right Out: 18140.379 ± 3.230 $\chi^2/\text{NDF}: 2894505.1/33$

Left In: 9323.983 ± 1.591 $\chi^2/\text{NDF}: 275717.0/22$

Left: 9286.587 ± 1.105 $\chi^2/\text{NDF}: 609106.1/47$

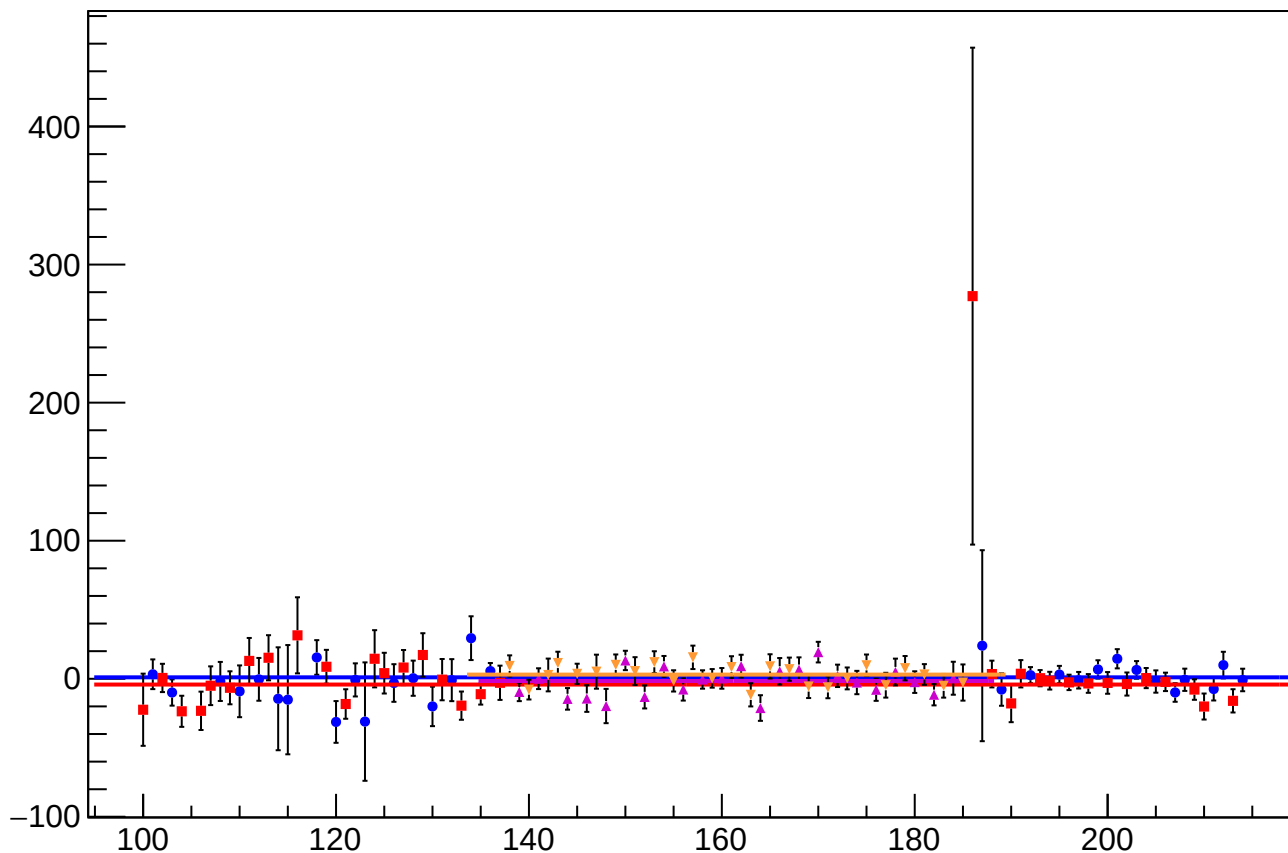
Right: 17733.359 ± 2.255 $\chi^2/\text{NDF}: 5751938.0/64$

In: 10955.531 ± 1.420 $\chi^2/\text{NDF}: 8270685.1/53$

Out: 10888.337 ± 1.386 $\chi^2/\text{NDF}: 9403731.6/58$

All: 10921.115 ± 0.992 $\chi^2/\text{NDF}: 17675563.1$

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.054 ± 1.674 χ^2/NDF : 25.6/30

Left Out: 3.027 ± 1.661 χ^2/NDF : 18.6/24

Right Out: -4.176 ± 1.657 χ^2/NDF : 30.8/33

Left In: -1.588 ± 1.703 χ^2/NDF : 35.5/22

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

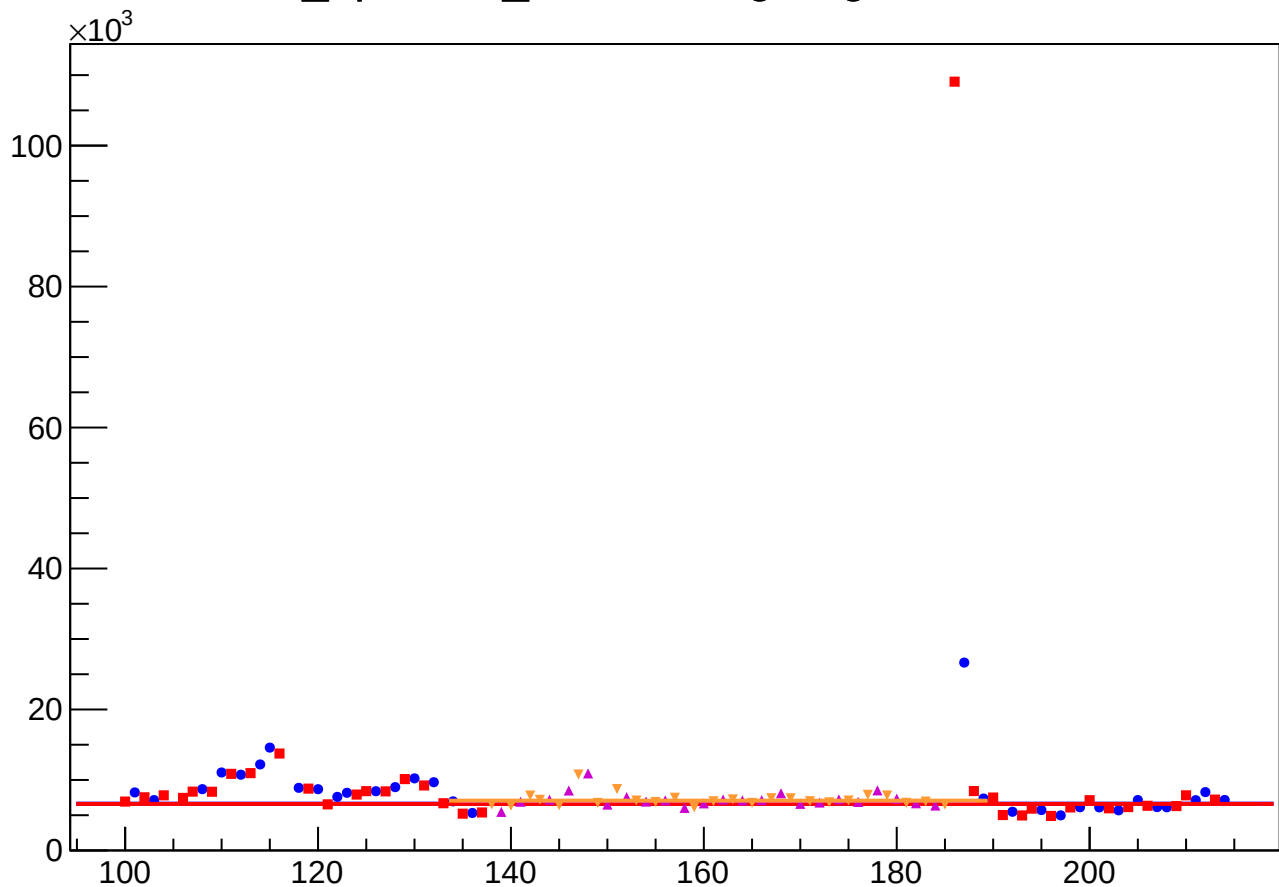
Right: -1.588 ± 1.178 χ^2/NDF : 61.4/64

In: -0.245 ± 1.194 χ^2/NDF : 62.3/53

Out: -0.583 ± 1.173 χ^2/NDF : 58.8/58

All: -0.417 ± 0.837 χ^2/NDF : 121.2/112

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6636.451 $\pm$ 1.184 χ^2/NDF : 1611125.3/30

Left Out: 7064.457 $\pm$ 1.174 χ^2/NDF : 386814.9/24

Right Out: 6604.575 $\pm$ 1.172 χ^2/NDF : 2151264.8/33

Left In: 7014.572 $\pm$ 1.204 χ^2/NDF : 525313.7/22

Left: 7040.137 $\pm$ 0.841 χ^2/NDF : 913008.5/47

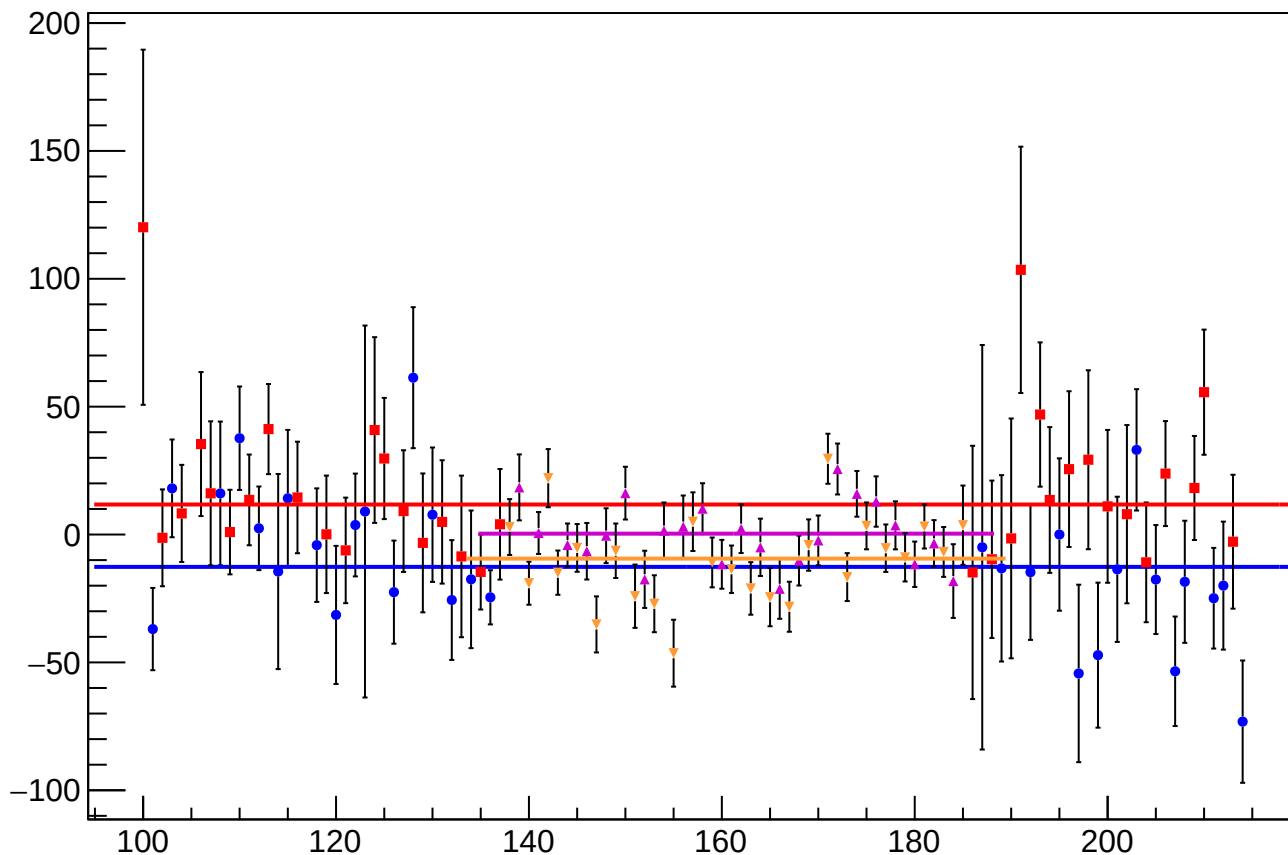
Right: 6620.346 $\pm$ 0.833 χ^2/NDF : 3762756.3/64

In: 6822.357 $\pm$ 0.844 χ^2/NDF : 2186584.6/53

Out: 6834.017 $\pm$ 0.829 χ^2/NDF : 2614942.4/58

All: 6828.290 $\pm$ 0.592 χ^2/NDF : 4801624.1/111

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -12.650 ± 4.077 χ^2/NDF : 42.5/30

Left Out: -9.411 ± 2.021 χ^2/NDF : 58.8/24

Right Out: 11.735 ± 4.142 χ^2/NDF : 24.8/33

Left In: 0.344 ± 2.100 χ^2/NDF : 29.9/22

Left: -4.722 ± 1.456 χ^2/NDF : 99.9/47

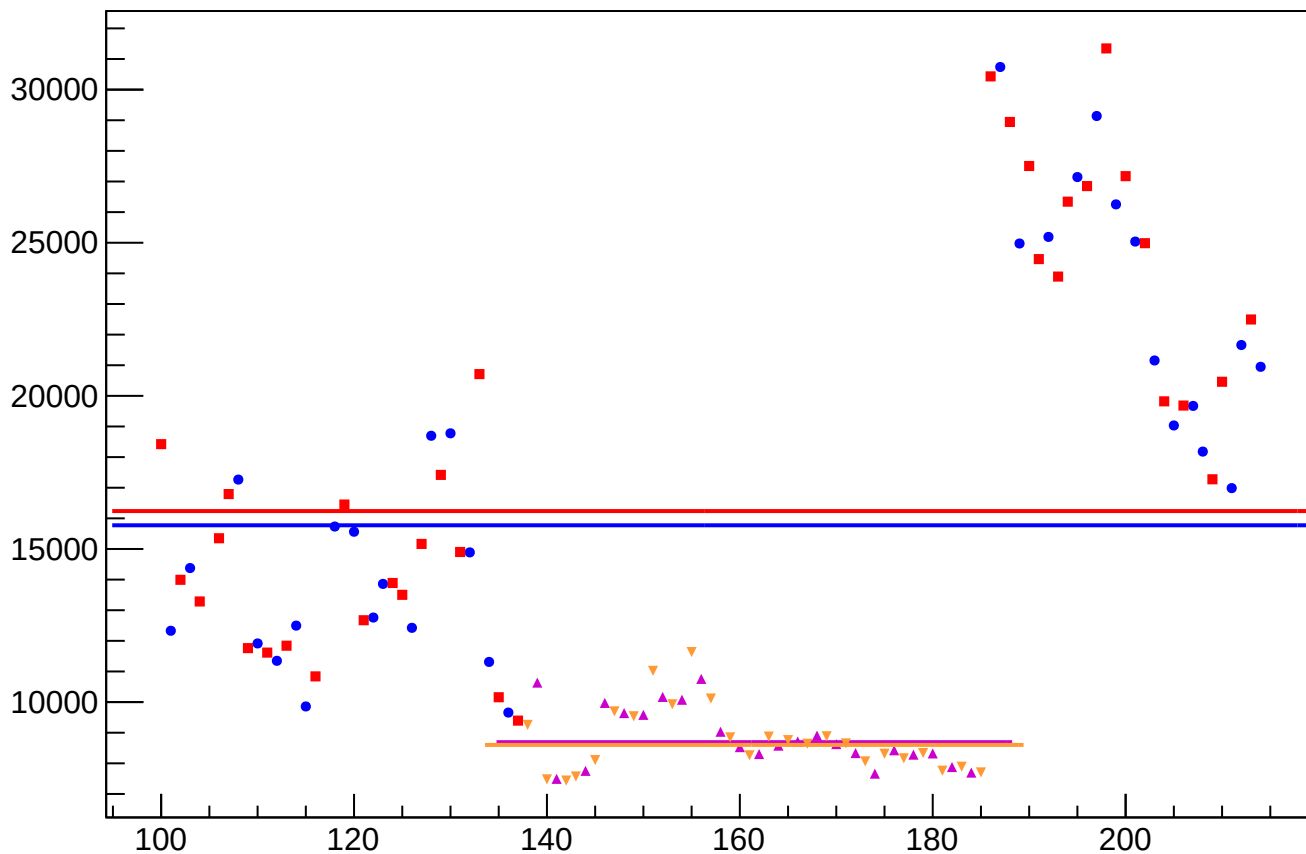
Right: -0.653 ± 2.906 χ^2/NDF : 84.8/64

In: -2.382 ± 1.867 χ^2/NDF : 80.4/53

Out: -5.345 ± 1.816 χ^2/NDF : 104.6/58

All: -3.905 ± 1.302 χ^2/NDF : 186.3/112

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15773.522 $\pm$ 2.883 χ^2/NDF : 3289720.2/30

Left Out: 8602.220 $\pm$ 1.429 χ^2/NDF : 438805.2/24

Right Out: 16238.147 $\pm$ 2.929 χ^2/NDF : 3672843.2/33

Left In: 8691.203 $\pm$ 1.485 χ^2/NDF : 365254.6/22

Left: 8644.996 $\pm$ 1.030 χ^2/NDF : 805923.5/47

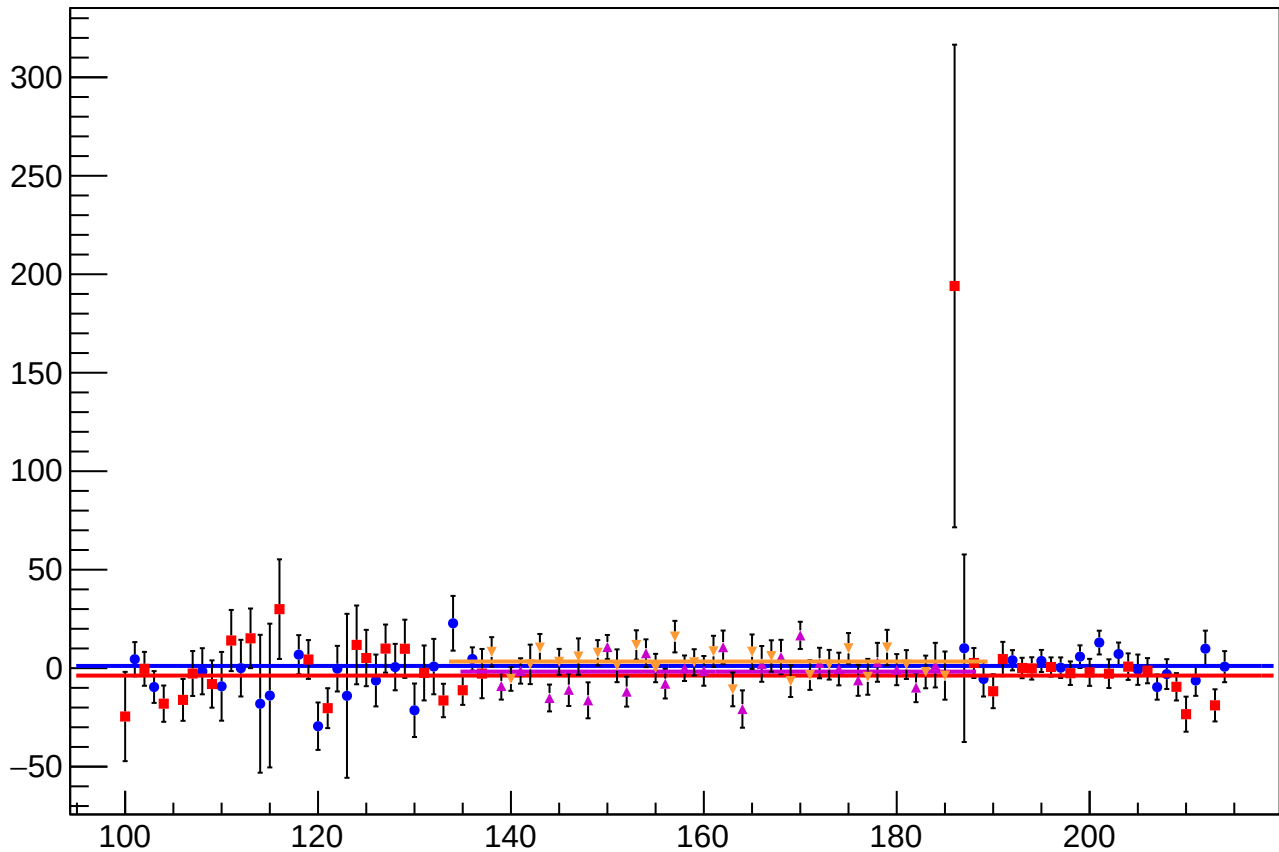
Right: 16002.121 $\pm$ 2.055 χ^2/NDF : 6975345.8/64

In: 10177.016 $\pm$ 1.320 χ^2/NDF : 8425058.0/53

Out: 10070.386 $\pm$ 1.284 χ^2/NDF : 9601200.5/58

All: 10122.229 $\pm$ 0.921 χ^2/NDF : 18029609.7/117

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.135 ± 1.511 χ^2/NDF : 27.3/30

Left Out: 3.374 ± 1.552 χ^2/NDF : 17.2/24

Right Out: -3.764 ± 1.474 χ^2/NDF : 35.8/33

Left In: -1.756 ± 1.607 χ^2/NDF : 33.5/22

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

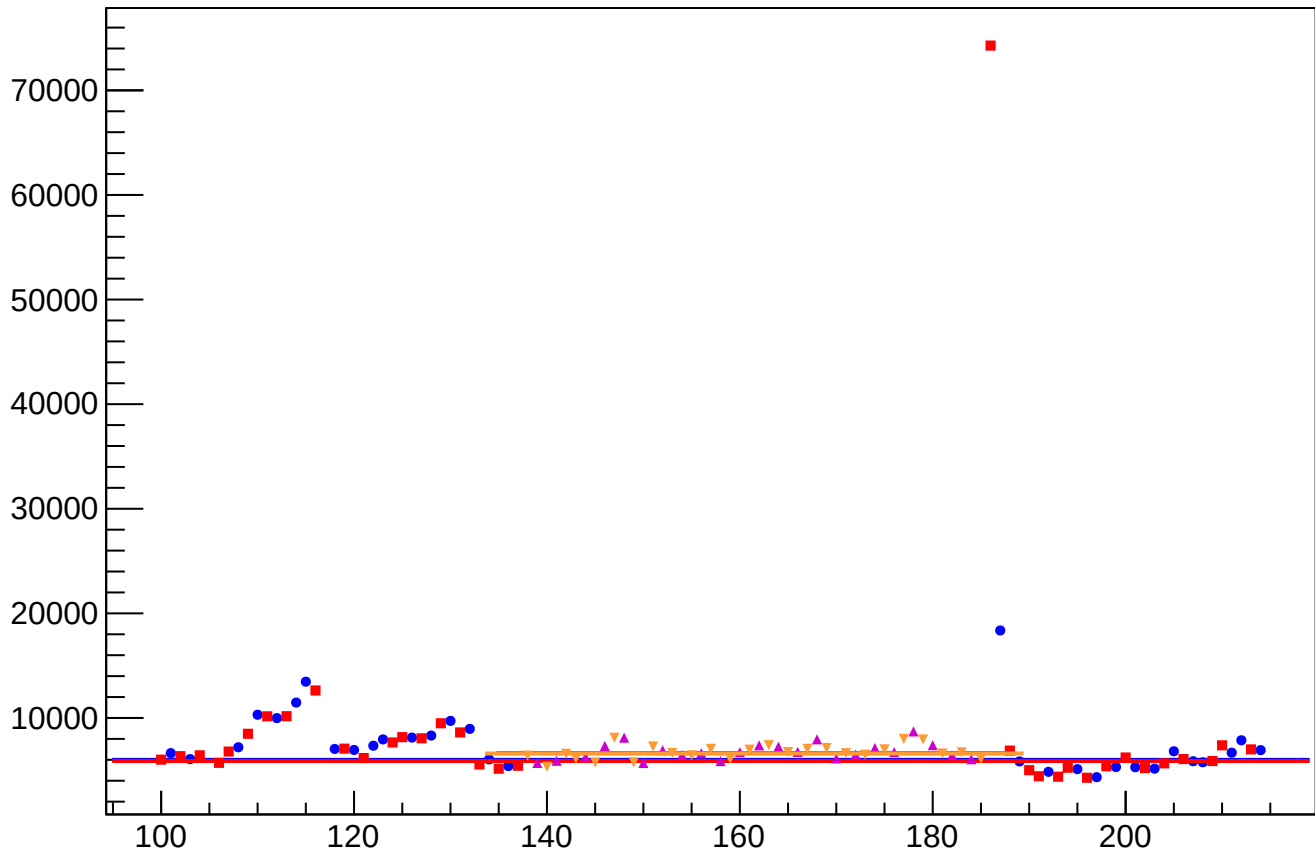
Right: -1.375 ± 1.055 χ^2/NDF : 68.5/64

In: -0.222 ± 1.101 χ^2/NDF : 62.6/53

Out: -0.378 ± 1.069 χ^2/NDF : 64.1/58

All: -0.302 ± 0.767 χ^2/NDF : 126.7/112

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5993.914+/-1.068 χ^2/NDF : 1632069.3/30

Left Out: 6603.953+/-1.097 χ^2/NDF : 395247.5/24

Right Out: 5888.649+/-1.042 χ^2/NDF : 2232452.4/33

Left In: 6637.155+/-1.136 χ^2/NDF : 415547.5/22

Left: 6619.974+/-0.789 χ^2/NDF : 811236.9/47

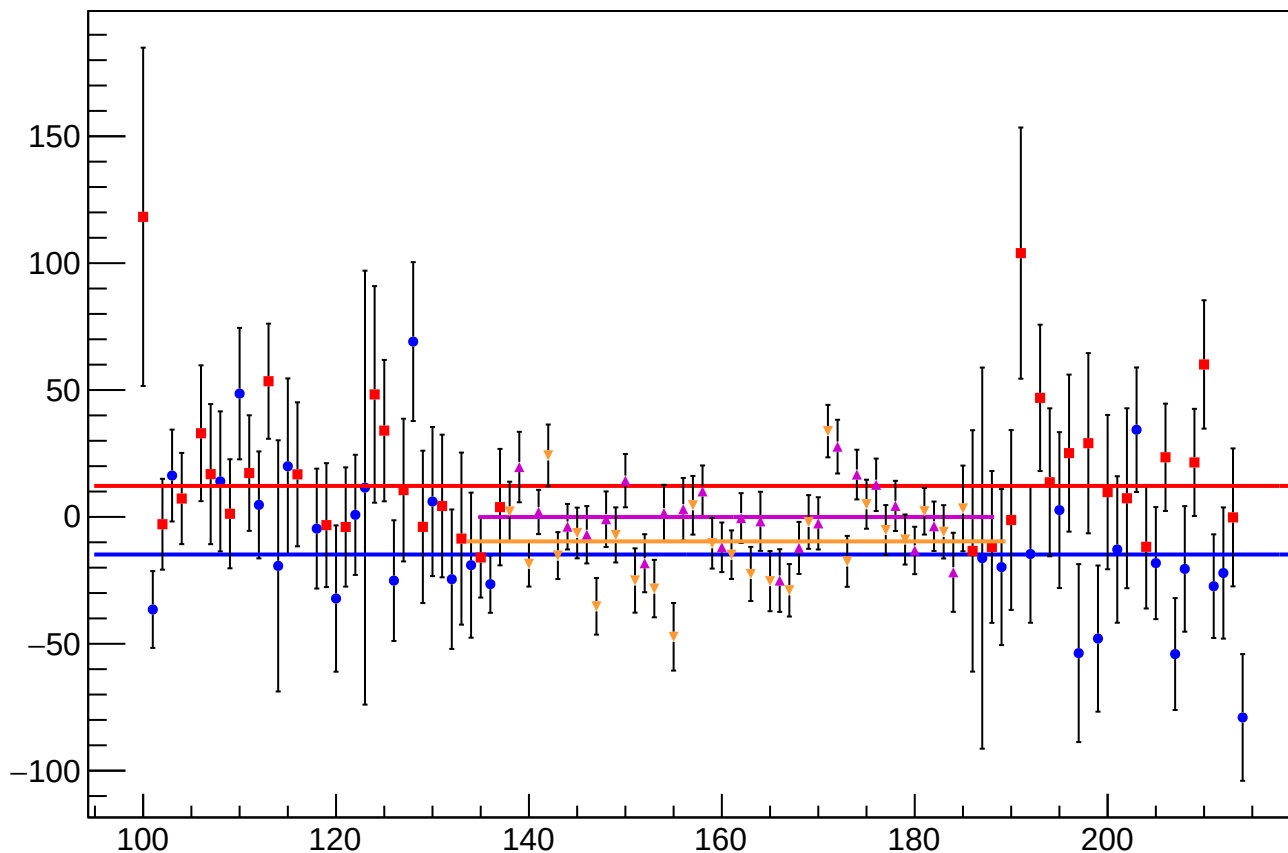
Right: 5939.977+/-0.746 χ^2/NDF : 3869495.0/64

In: 6295.761+/-0.778 χ^2/NDF : 2217687.6/53

Out: 6227.932+/-0.756 χ^2/NDF : 2851088.2/58

All: 6260.843+/-0.542 χ^2/NDF : 5072684.5/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -14.816 ± 4.354 $\chi^2/\text{NDF}: 41.4/30$

Left Out: -9.640 ± 2.122 $\chi^2/\text{NDF}: 59.9/24$

Right Out: 12.214 ± 4.467 $\chi^2/\text{NDF}: 25.5/33$

Left In: -0.042 ± 2.200 $\chi^2/\text{NDF}: 30.8/22$

Left: -5.015 ± 1.527 $\chi^2/\text{NDF}: 100.5/47$

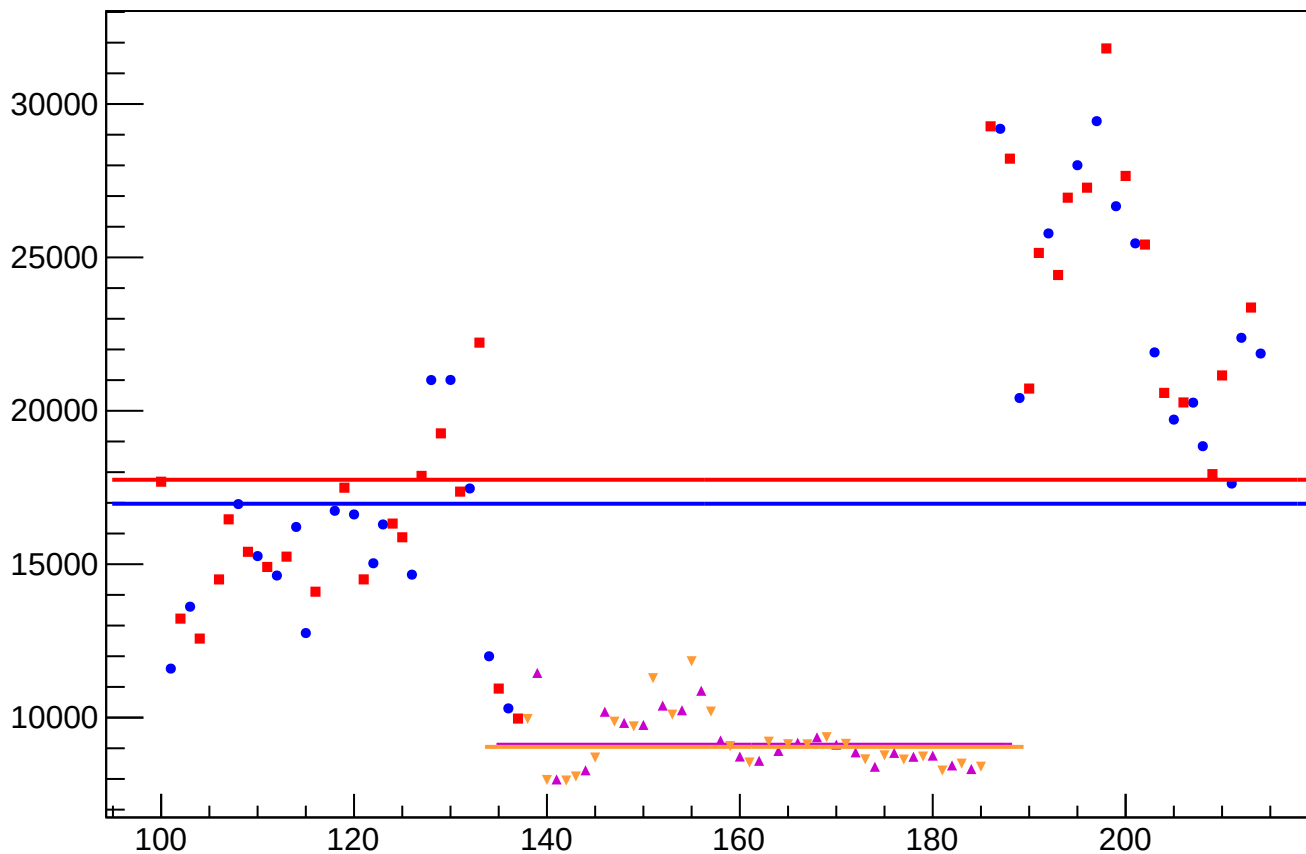
Right: -1.646 ± 3.118 $\chi^2/\text{NDF}: 85.6/64$

In: -3.047 ± 1.964 $\chi^2/\text{NDF}: 81.3/53$

Out: -5.617 ± 1.917 $\chi^2/\text{NDF}: 104.9/58$

All: -4.363 ± 1.372 $\chi^2/\text{NDF}: 187.1/112$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16970.695 $\pm$ 3.079 χ^2 /NDF: 2781198.3/30

Left Out: 9045.871 $\pm$ 1.500 χ^2 /NDF: 328508.5/24

Right Out: 17752.563 $\pm$ 3.159 χ^2 /NDF: 2843327.8/33

Left In: 9115.817 $\pm$ 1.556 χ^2 /NDF: 272471.8/22

Left: 9079.576 $\pm$ 1.080 χ^2 /NDF: 602027.6/47

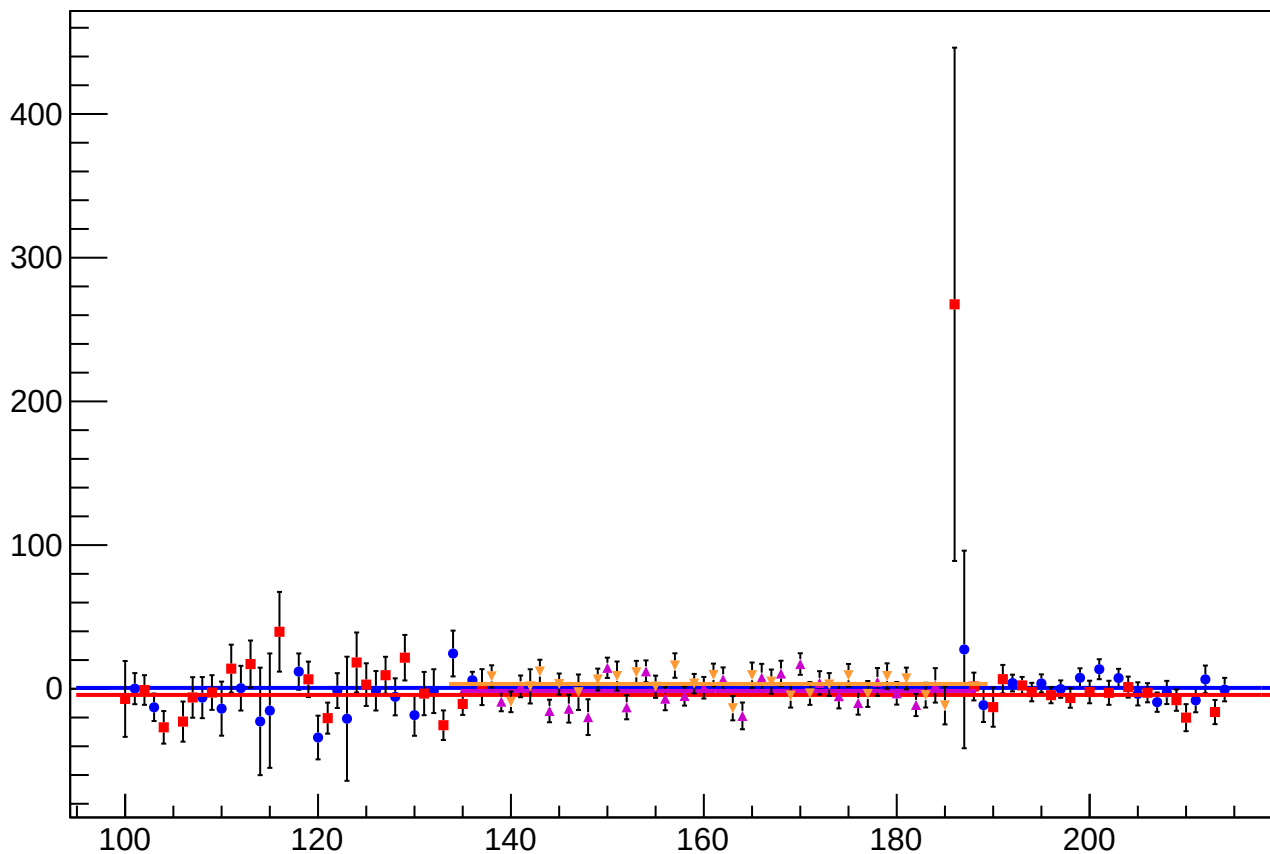
Right: 17351.636 $\pm$ 2.205 χ^2 /NDF: 5655942.5/64

In: 10713.286 $\pm$ 1.389 χ^2 /NDF: 8238093.8/53

Out: 10648.455 $\pm$ 1.355 χ^2 /NDF: 9370816.9/58

All: 10680.083 $\pm$ 0.970 χ^2 /NDF: 17610027.1

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.627 ± 1.679 $\chi^2/\text{NDF}: 26.3/30$

Left Out: 3.387 ± 1.668 $\chi^2/\text{NDF}: 19.4/24$

Right Out: -4.262 ± 1.663 $\chi^2/\text{NDF}: 36.1/33$

Left In: -1.479 ± 1.710 $\chi^2/\text{NDF}: 36.7/22$

Left: 1.015 ± 1.194 $\chi^2/\text{NDF}: 60.3/47$

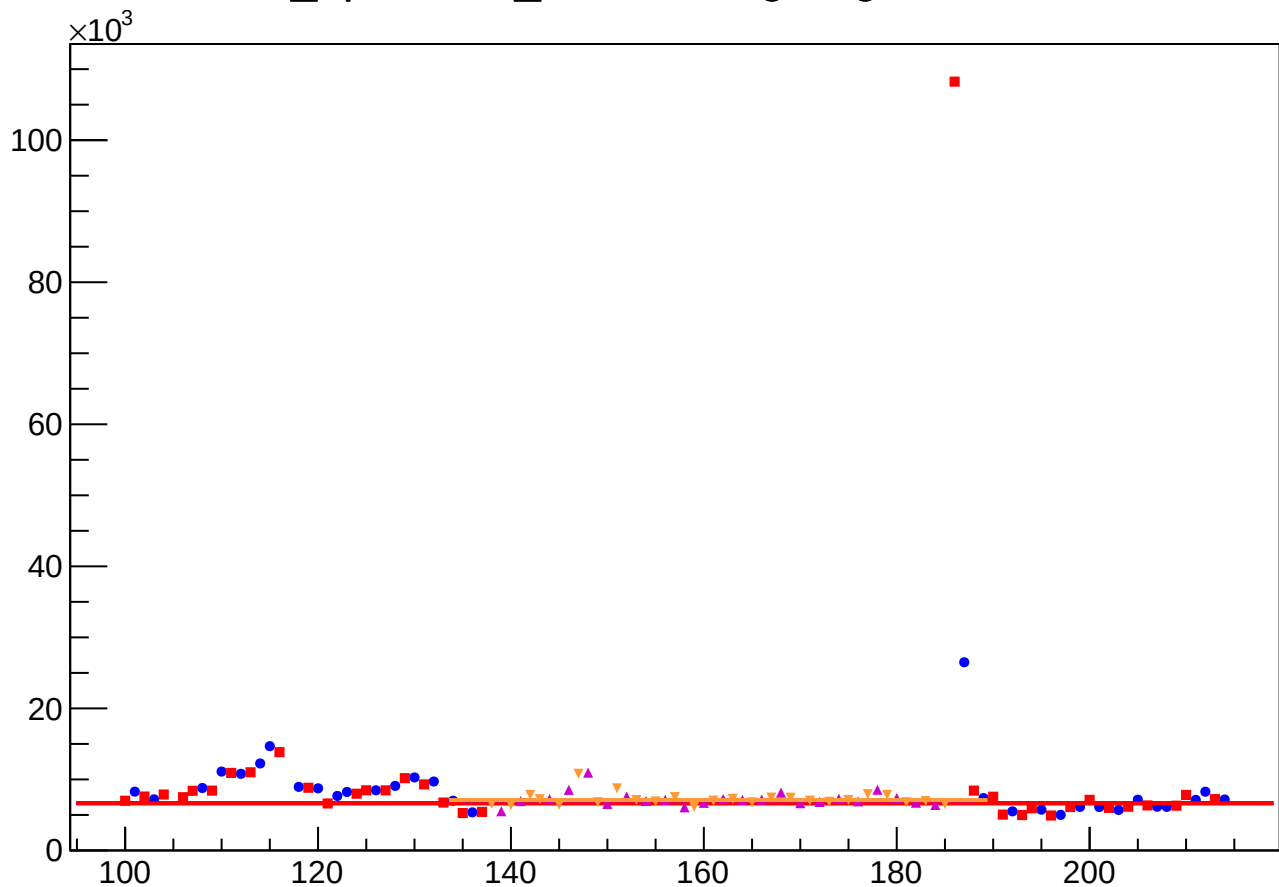
Right: -1.842 ± 1.182 $\chi^2/\text{NDF}: 66.7/64$

In: -0.407 ± 1.198 $\chi^2/\text{NDF}: 63.8/53$

Out: -0.449 ± 1.178 $\chi^2/\text{NDF}: 66.1/58$

All: -0.428 ± 0.840 $\chi^2/\text{NDF}: 129.9/112$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6656.796 $\pm$ 1.188 χ^2/NDF : 1617490.0/30

Left Out: 7096.350 $\pm$ 1.179 χ^2/NDF : 381942.1/24

Right Out: 6629.228 $\pm$ 1.176 χ^2/NDF : 2154695.4/33

Left In: 7047.269 $\pm$ 1.209 χ^2/NDF : 517433.5/22

Left: 7072.425 $\pm$ 0.844 χ^2/NDF : 900219.9/47

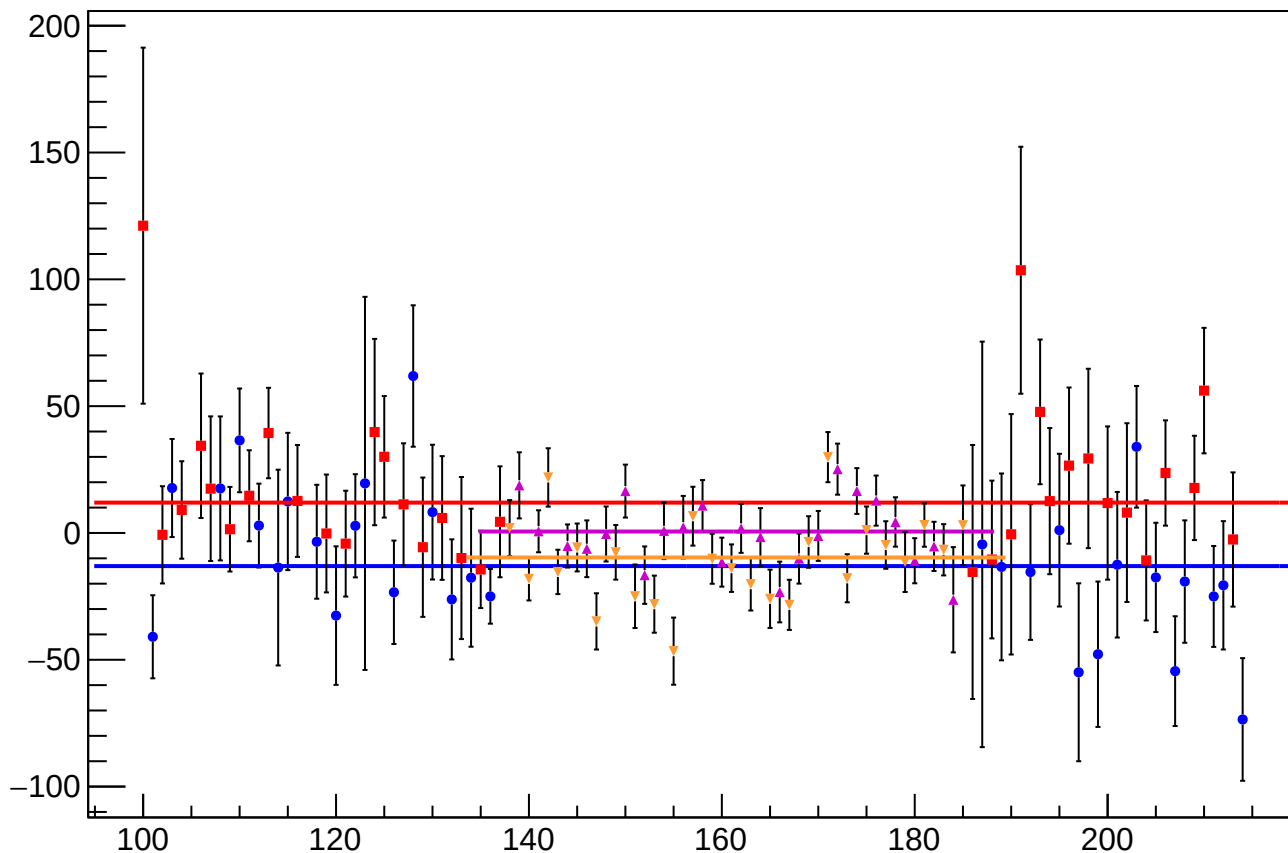
Right: 6642.875 $\pm$ 0.836 χ^2/NDF : 3772457.5/64

In: 6848.489 $\pm$ 0.847 χ^2/NDF : 2187998.1/53

Out: 6862.098 $\pm$ 0.833 χ^2/NDF : 2615312.4/58

All: 6855.412 $\pm$ 0.594 χ^2/NDF : 4803441.7/11

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -13.062 ± 4.128 $\chi^2/\text{NDF}: 42.9/30$

Left Out: -9.670 ± 2.061 $\chi^2/\text{NDF}: 57.9/24$

Right Out: 11.972 ± 4.197 $\chi^2/\text{NDF}: 23.7/33$

Left In: 0.564 ± 2.144 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.755 ± 1.486 $\chi^2/\text{NDF}: 99.5/47$

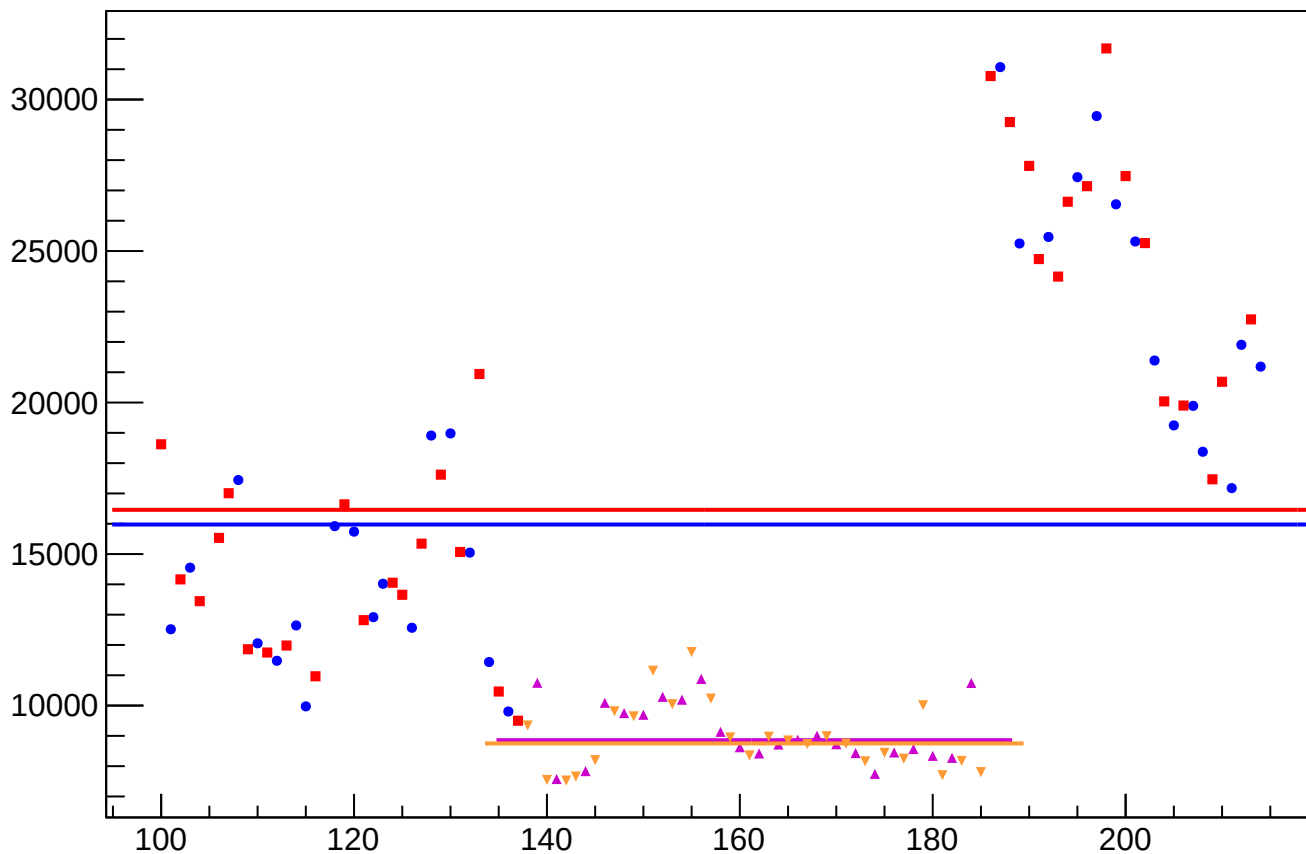
Right: -0.753 ± 2.943 $\chi^2/\text{NDF}: 84.7/64$

In: -2.330 ± 1.902 $\chi^2/\text{NDF}: 81.3/53$

Out: -5.467 ± 1.850 $\chi^2/\text{NDF}: 103.0/58$

All: -3.943 ± 1.326 $\chi^2/\text{NDF}: 185.7/112$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15975.034+/-2.919 χ^2/NDF : 3266533.6/30

Left Out: 8750.420+/-1.457 χ^2/NDF : 463880.1/24

Right Out: 16459.344+/-2.968 χ^2/NDF : 3634504.1/33

Left In: 8857.329+/-1.516 χ^2/NDF : 361778.8/22

Left: 8801.764+/-1.050 χ^2/NDF : 828244.3/47

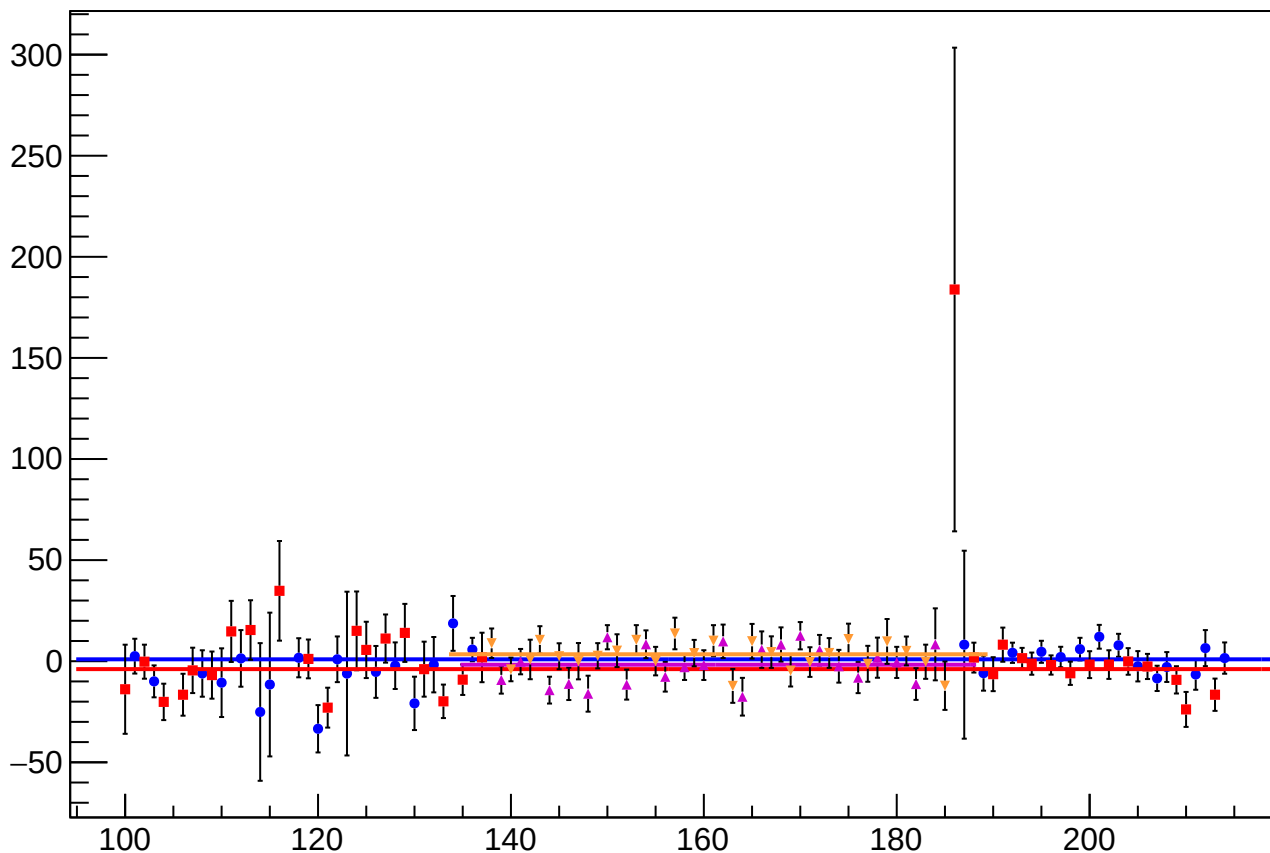
Right: 16213.175+/-2.081 χ^2/NDF : 6914574.3/64

In: 10369.109+/-1.345 χ^2/NDF : 8311516.3/53

Out: 10247.774+/-1.308 χ^2/NDF : 9535249.5/58

All: 10306.737+/-0.938 χ^2/NDF : 17850947.9

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.936 ± 1.474 $\chi^2/\text{NDF}: 29.2/30$

Left Out: 3.433 ± 1.526 $\chi^2/\text{NDF}: 16.2/24$

Right Out: -3.910 ± 1.437 $\chi^2/\text{NDF}: 39.8/33$

Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.949 ± 1.099 $\chi^2/\text{NDF}: 55.3/47$

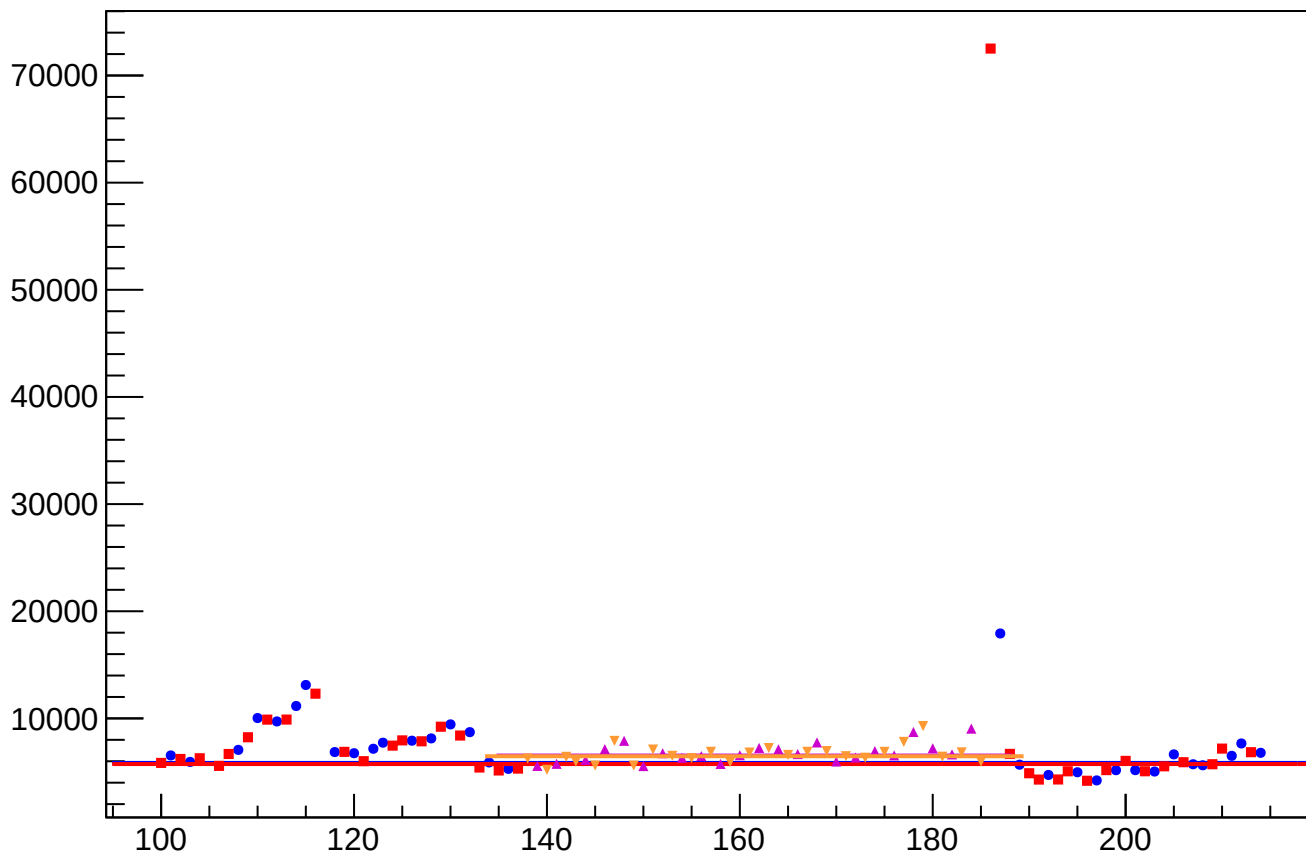
Right: -1.548 ± 1.029 $\chi^2/\text{NDF}: 74.6/64$

In: -0.302 ± 1.080 $\chi^2/\text{NDF}: 64.3/53$

Out: -0.458 ± 1.046 $\chi^2/\text{NDF}: 68.3/58$

All: -0.382 ± 0.751 $\chi^2/\text{NDF}: 132.6/112$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5844.605 $\pm$ 1.042 χ^2 /NDF: 1639121.4/30

Left Out: 6468.872 $\pm$ 1.079 χ^2 /NDF: 487187.3/24

Right Out: 5738.923 $\pm$ 1.016 χ^2 /NDF: 2223839.0/33

Left In: 6530.954 $\pm$ 1.121 χ^2 /NDF: 464668.6/22

Left: 6498.713 $\pm$ 0.777 χ^2 /NDF: 953447.7/47

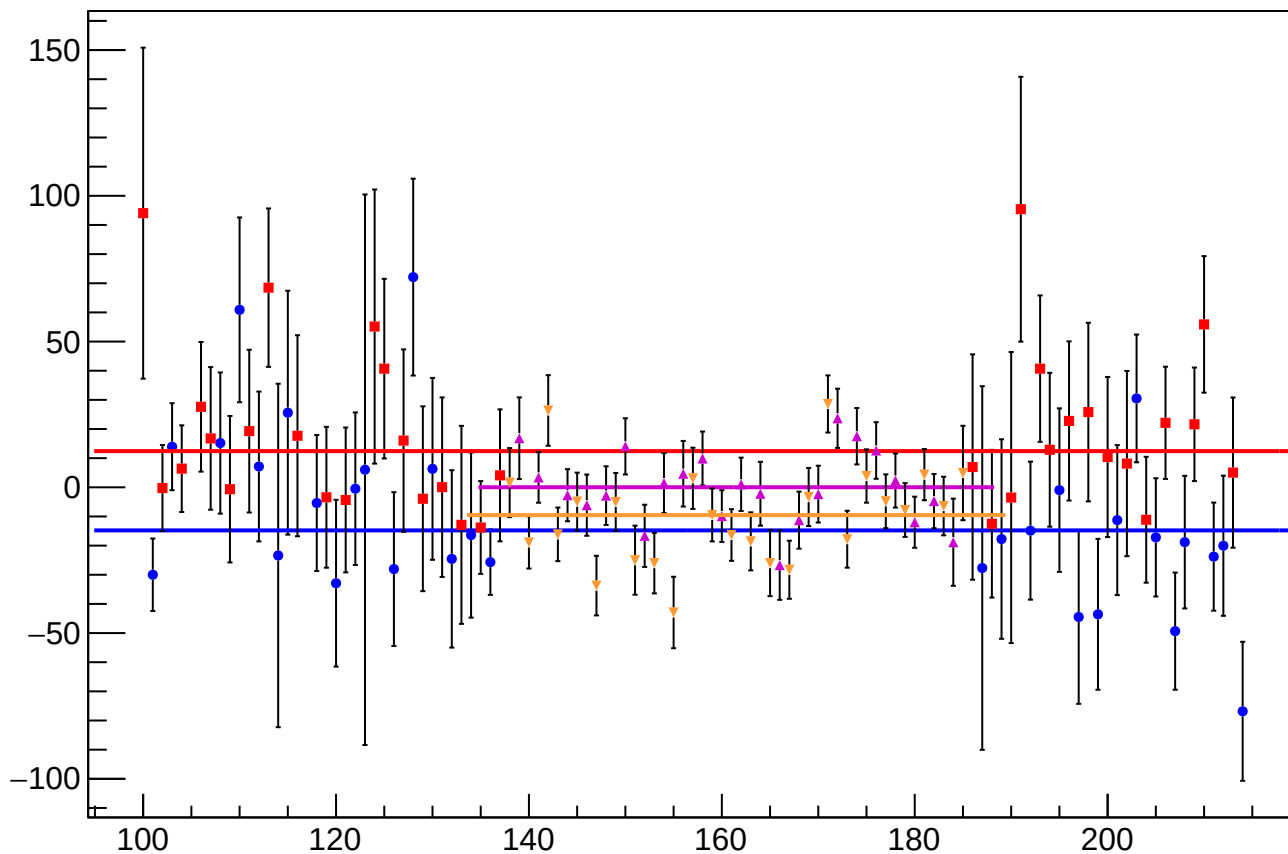
Right: 5790.422 $\pm$ 0.728 χ^2 /NDF: 3868231.3/64

In: 6162.732 $\pm$ 0.763 χ^2 /NDF: 2304777.9/53

Out: 6082.084 $\pm$ 0.740 χ^2 /NDF: 2953623.3/58

All: 6121.134 $\pm$ 0.531 χ^2 /NDF: 5264157.3/111

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -14.779 ± 4.156 χ^2/NDF : 40.3/30

Left Out: -9.528 ± 2.015 χ^2/NDF : 59.6/24

Right Out: 12.422 ± 4.282 χ^2/NDF : 25.7/33

Left In: 0.027 ± 2.080 χ^2/NDF : 29.9/22

Left: -4.902 ± 1.447 χ^2/NDF : 100.3/47

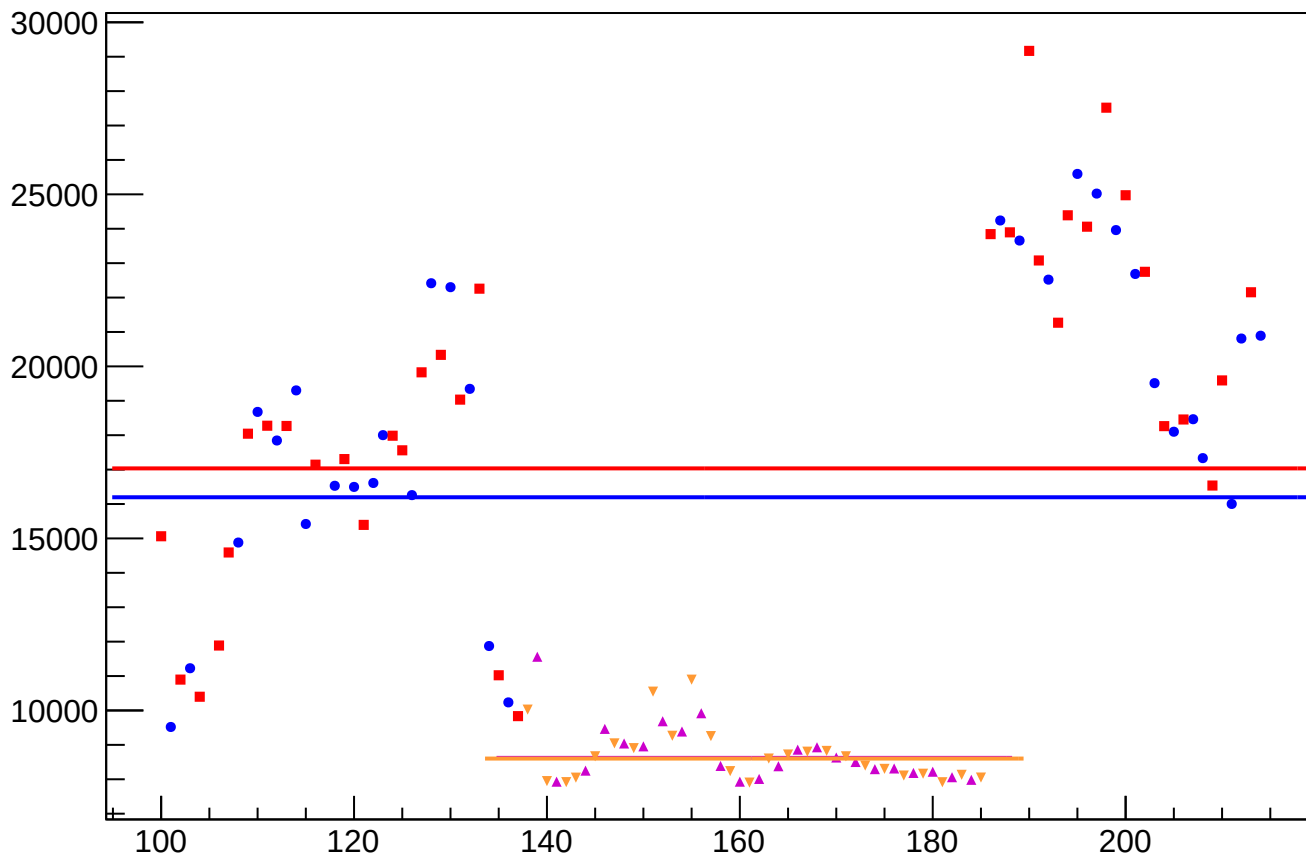
Right: -1.586 ± 2.982 χ^2/NDF : 86.8/64

In: -2.939 ± 1.860 χ^2/NDF : 80.3/53

Out: -5.549 ± 1.823 χ^2/NDF : 106.8/58

All: -4.270 ± 1.302 χ^2/NDF : 188.1/112

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16196.134 $\pm$ 2.939 χ^2 /NDF: 2833917.3/30

Left Out: 8601.926 $\pm$ 1.425 χ^2 /NDF:248903.5/24

Right Out: 17035.156 $\pm$ 3.028 χ^2 /NDF: 2771620.9/33

Left In: 8621.975 $\pm$ 1.471 χ^2 /NDF:230824.4/22

Left: 8611.634 $\pm$ 1.023 χ^2 /NDF: 479823.8/47

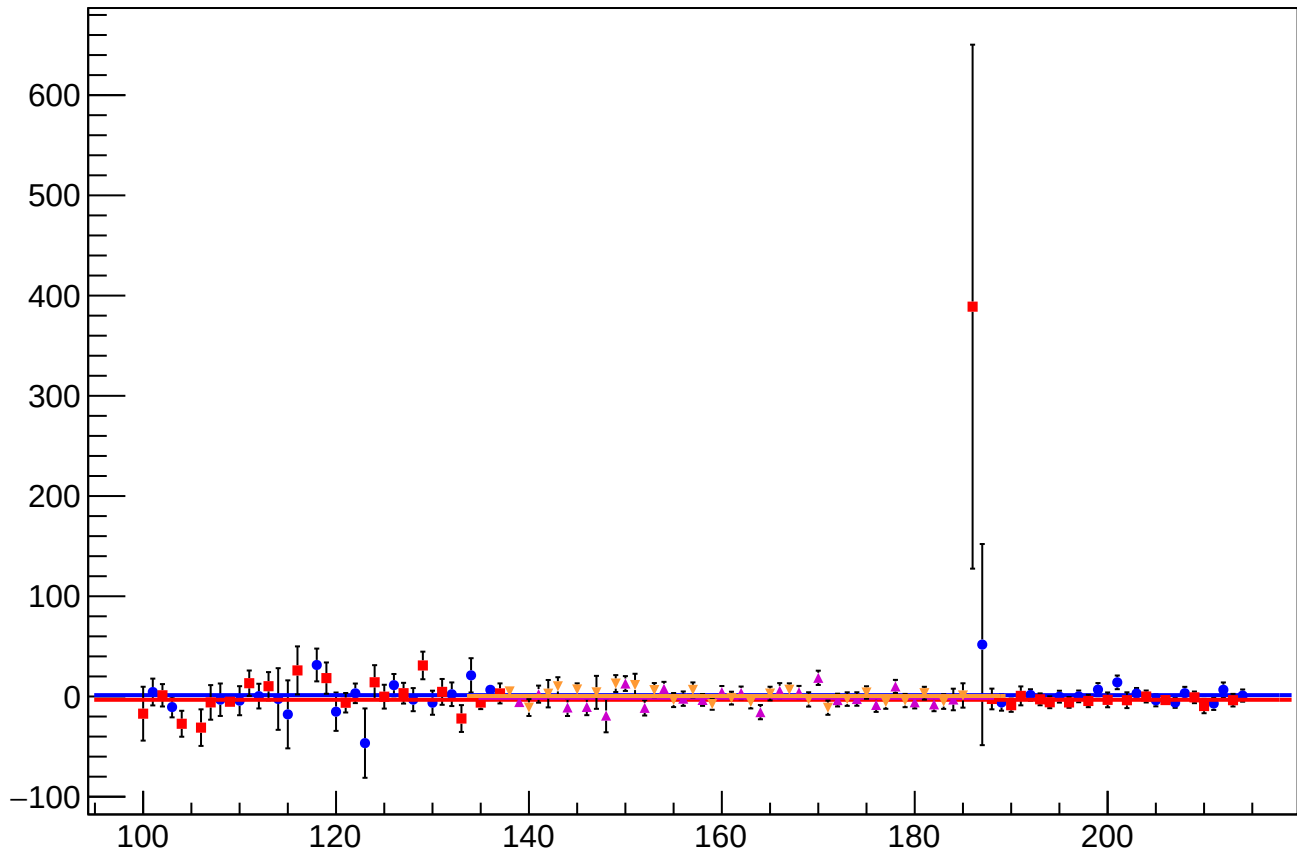
Right: 16603.081 $\pm$ 2.109 χ^2 /NDF: 5645074.1/64

In: 10138.971 $\pm$ 1.315 χ^2 /NDF:8377050.6/53

Out: 10130.890 $\pm$ 1.289 χ^2 /NDF:9370484.9/58

All: 10134.850 $\pm$ 0.921 χ^2 /NDF: 17747554.8/111

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.350 ± 1.455 $\chi^2/\text{NDF}: 22.7/30$

Left Out: 0.481 ± 1.419 $\chi^2/\text{NDF}: 19.6/24$

Right Out: -3.291 ± 1.407 $\chi^2/\text{NDF}: 27.9/33$

Left In: -1.298 ± 1.406 $\chi^2/\text{NDF}: 33.0/22$

Left: -0.417 ± 0.999 $\chi^2/\text{NDF}: 53.4/47$

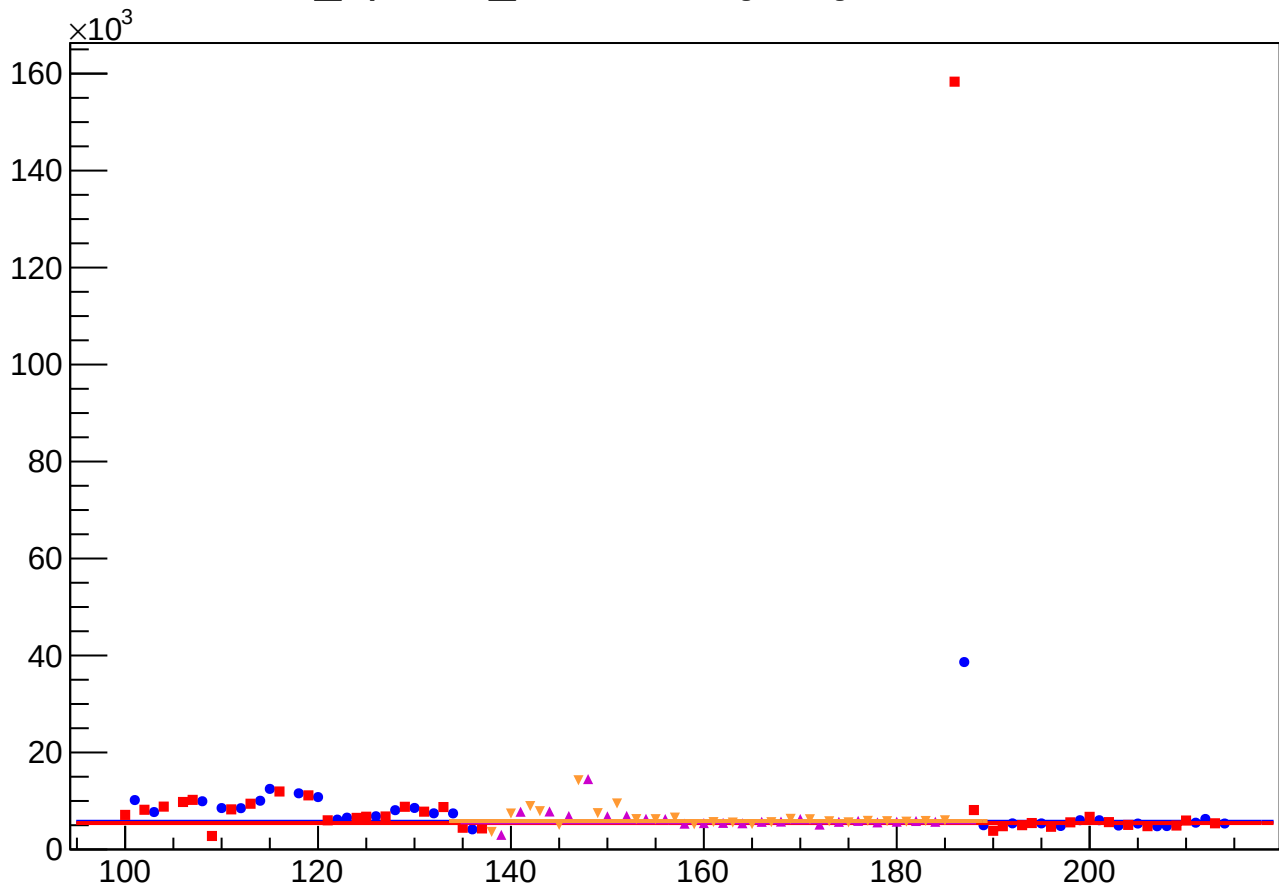
Right: -1.049 ± 1.011 $\chi^2/\text{NDF}: 55.9/64$

In: -0.019 ± 1.011 $\chi^2/\text{NDF}: 57.4/53$

Out: -1.422 ± 0.999 $\chi^2/\text{NDF}: 51.0/58$

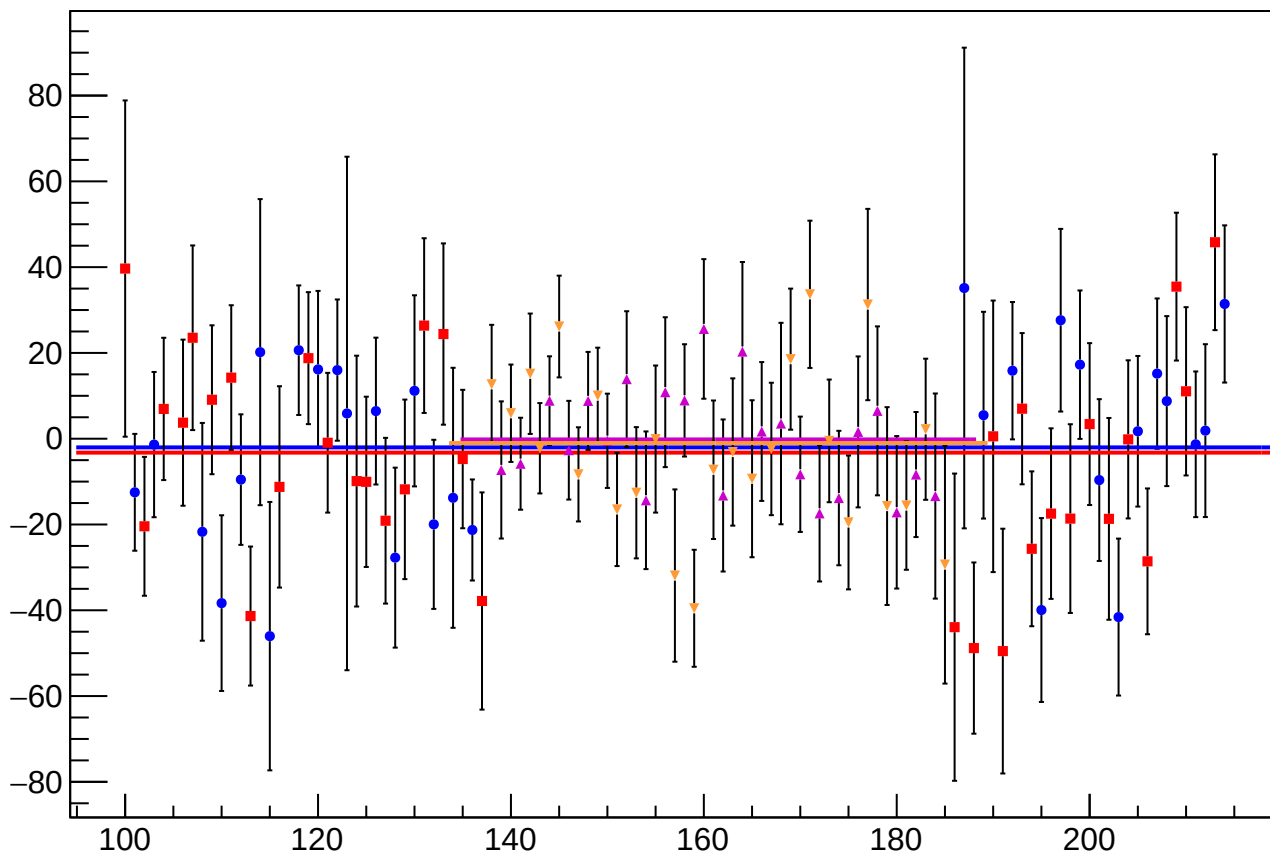
All: -0.729 ± 0.711 $\chi^2/\text{NDF}: 109.5/112$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5709.052 $\pm$ 1.029	χ^2/NDF : 2130880.2/30	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5571.782 $\pm$ 0.715	χ^2/NDF : 5624732.5/64
Right Out: 5443.458 $\pm$ 0.995	χ^2/NDF : 3459402.6/33	In: 5651.059 $\pm$ 0.715	χ^2/NDF : 4226777.1/53
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5649.201 $\pm$ 0.706	χ^2/NDF : 5237089.5/58
		All: 5650.119 $\pm$ 0.503	χ^2/NDF : 9463870.0/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -2.025 ± 3.405 χ^2/NDF : 34.8/30

Left Out: -1.007 ± 2.942 χ^2/NDF : 33.5/24

Right Out: -3.242 ± 3.374 χ^2/NDF : 46.5/33

Left In: -0.172 ± 3.067 χ^2/NDF : 12.4/22

Left: -0.607 ± 2.123 χ^2/NDF : 45.9/47

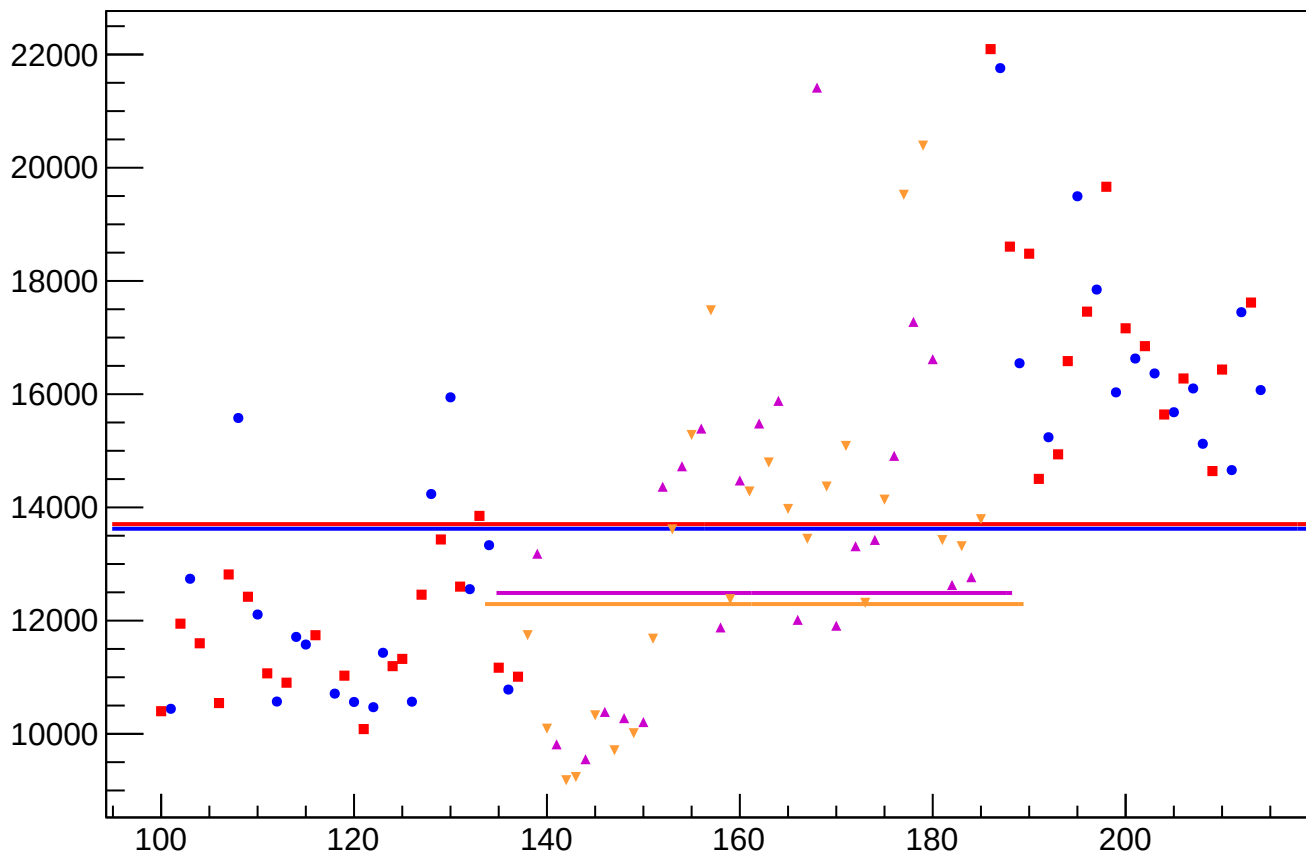
Right: -2.639 ± 2.397 χ^2/NDF : 81.3/64

In: -1.002 ± 2.279 χ^2/NDF : 47.3/53

Out: -1.972 ± 2.217 χ^2/NDF : 80.2/58

All: -1.501 ± 1.589 χ^2/NDF : 127.6/112

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13623.242+/-2.408

χ^2/NDF : 1297268.6/30

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right: 13664.448+/-1.695

χ^2/NDF : 2691933.8/64

Right Out: 13704.910+/-2.386

χ^2/NDF : 1394084.6/33

In: 12997.015+/-1.611

χ^2/NDF : 2774309.8/53

Out: 12902.497+/-1.568

χ^2/NDF : 3095736.6/58

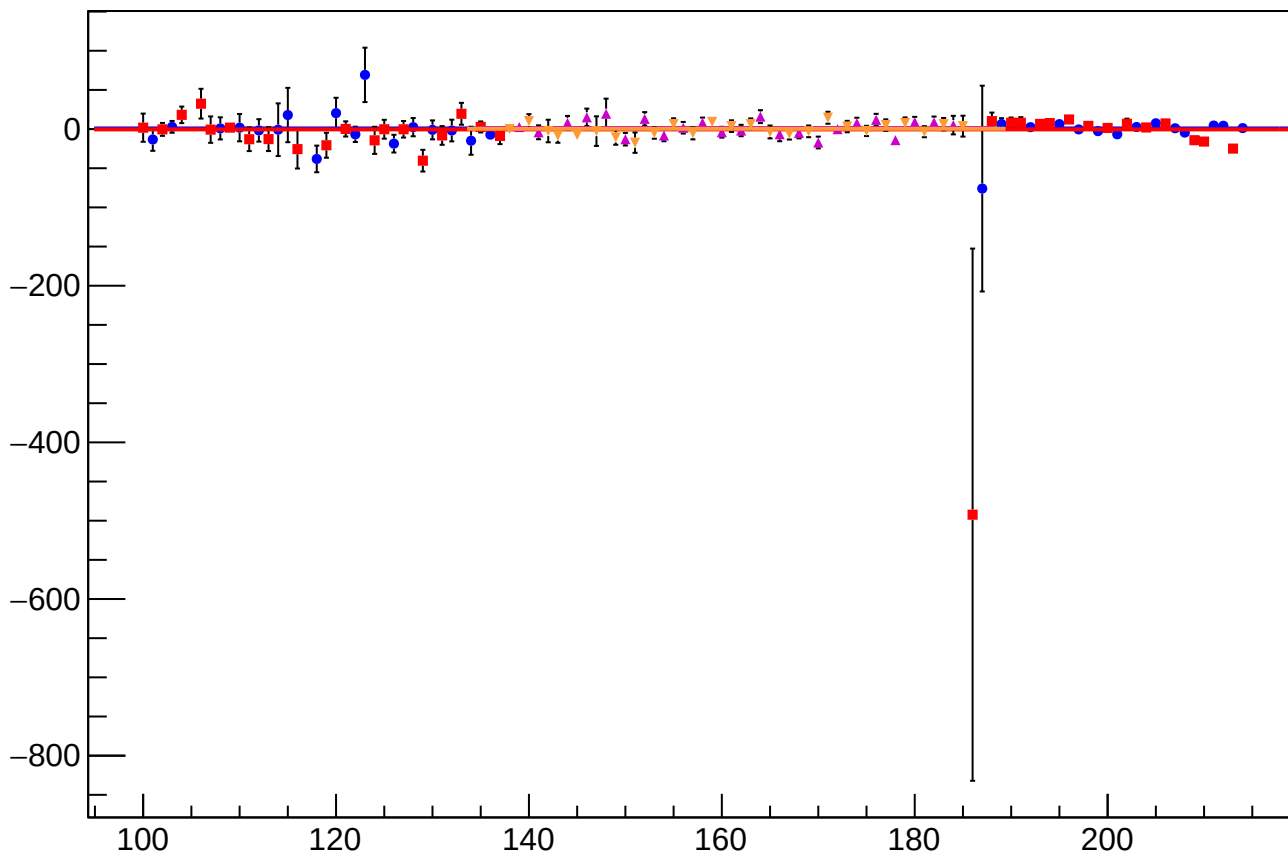
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12948.459+/-1.124

χ^2/NDF : 5871813.8/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.779 ± 1.190 $\chi^2/\text{NDF}: 28.8/30$

Left Out: 0.410 ± 1.435 $\chi^2/\text{NDF}: 19.3/24$

Right Out: -0.422 ± 1.198 $\chi^2/\text{NDF}: 90.2/33$

Left In: 1.278 ± 1.386 $\chi^2/\text{NDF}: 34.0/22$

Left: 0.859 ± 0.997 $\chi^2/\text{NDF}: 53.5/47$

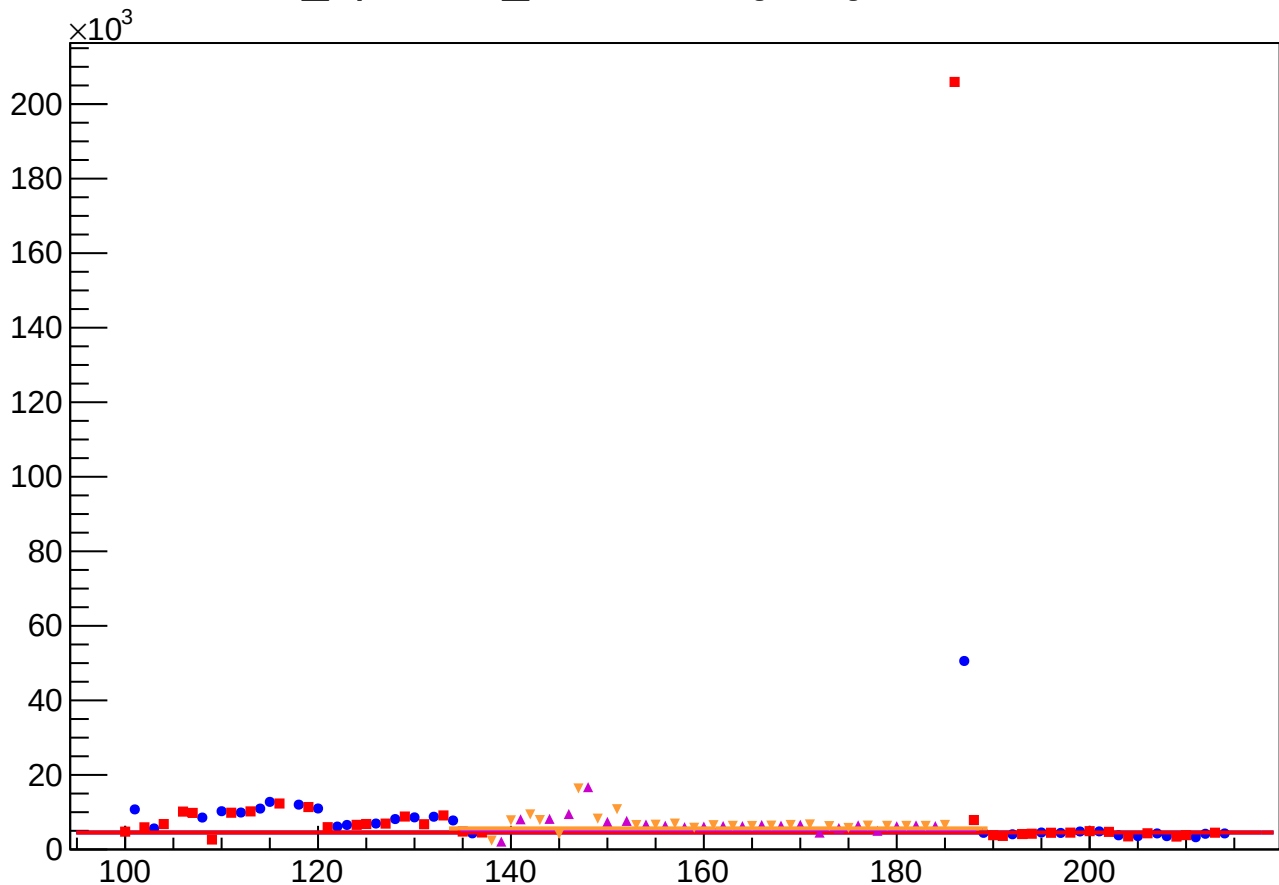
Right: 0.183 ± 0.844 $\chi^2/\text{NDF}: 119.5/64$

In: 0.991 ± 0.903 $\chi^2/\text{NDF}: 62.8/53$

Out: -0.080 ± 0.920 $\chi^2/\text{NDF}: 109.7/58$

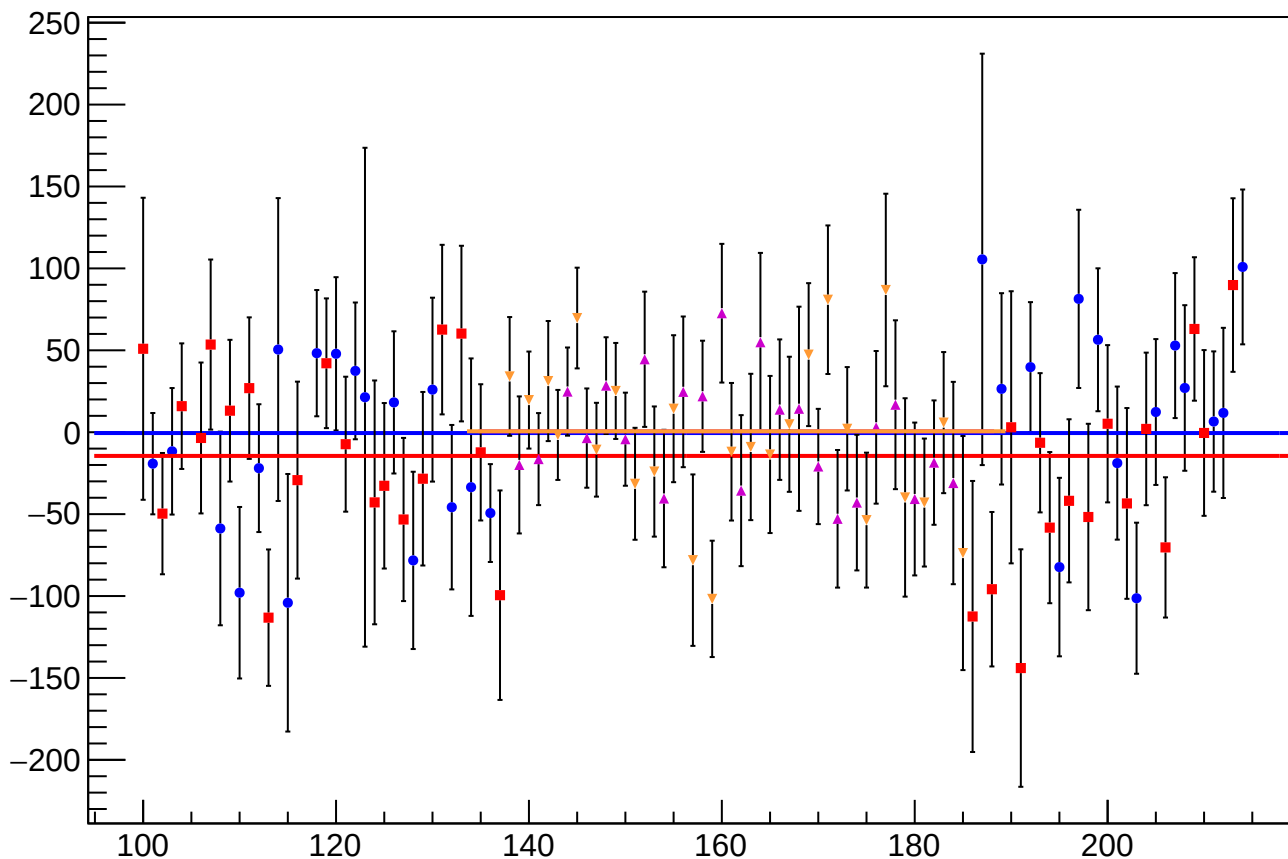
All: 0.465 ± 0.644 $\chi^2/\text{NDF}: 173.3/112$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4554.507 $\pm$ 0.841	χ^2/NDF : 3465094.5/30	Left: 5409.966 $\pm$ 0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639 $\pm$ 1.014	χ^2/NDF : 4124124.3/24	Right: 4555.618 $\pm$ 0.597	χ^2/NDF : 7419436.6/64
Right Out: 4556.745 $\pm$ 0.847	χ^2/NDF : 3954338.6/33	In: 4820.213 $\pm$ 0.638	χ^2/NDF : 9050303.0/53
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5008.296 $\pm$ 0.650	χ^2/NDF : 8769757.5/58
		All: 4912.502 $\pm$ 0.456	χ^2/NDF : 17862670.5/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.502 ± 8.509 χ^2/NDF : 36.5/30

Left Out: 0.580 ± 7.691 χ^2/NDF : 31.0/24

Right Out: -14.464 ± 8.431 χ^2/NDF : 38.4/33

Left In: 0.565 ± 8.015 χ^2/NDF : 14.3/22

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

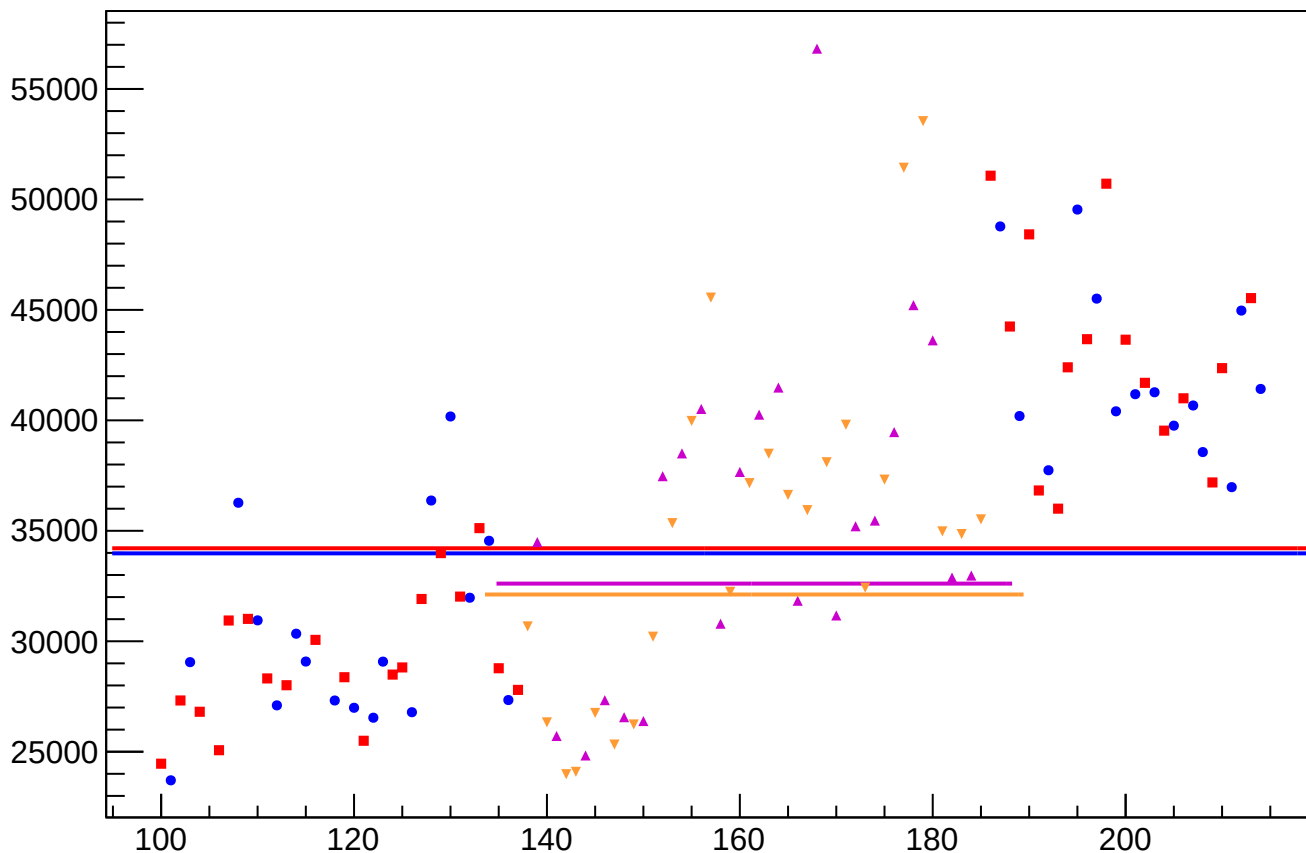
Right: -7.548 ± 5.989 χ^2/NDF : 76.3/64

In: 0.063 ± 5.834 χ^2/NDF : 50.8/53

Out: -6.253 ± 5.682 χ^2/NDF : 71.1/58

All: -3.179 ± 4.070 χ^2/NDF : 122.5/112

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33979.051+/-6.017

χ^2/NDF : 1398656.3/30

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right: 34095.163+/-4.235

χ^2/NDF : 2866055.1/64

Right Out: 34209.146+/-5.961

χ^2/NDF : 1466660.8/33

In: 33253.637+/-4.125

χ^2/NDF : 2824562.3/53

Out: 33067.319+/-4.018

χ^2/NDF : 3070613.6/58

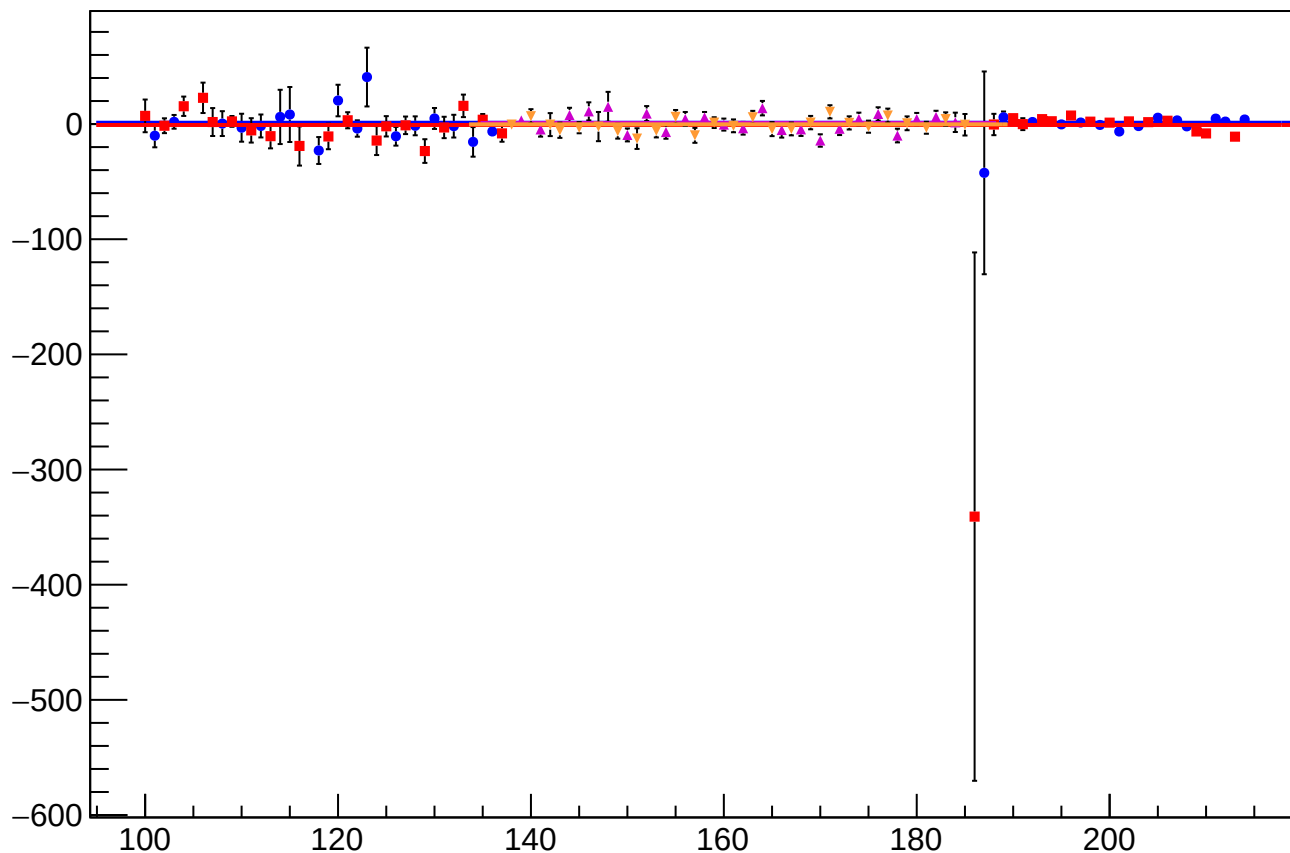
Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

All: 33158.013+/-2.878

χ^2/NDF : 5896222.8/100

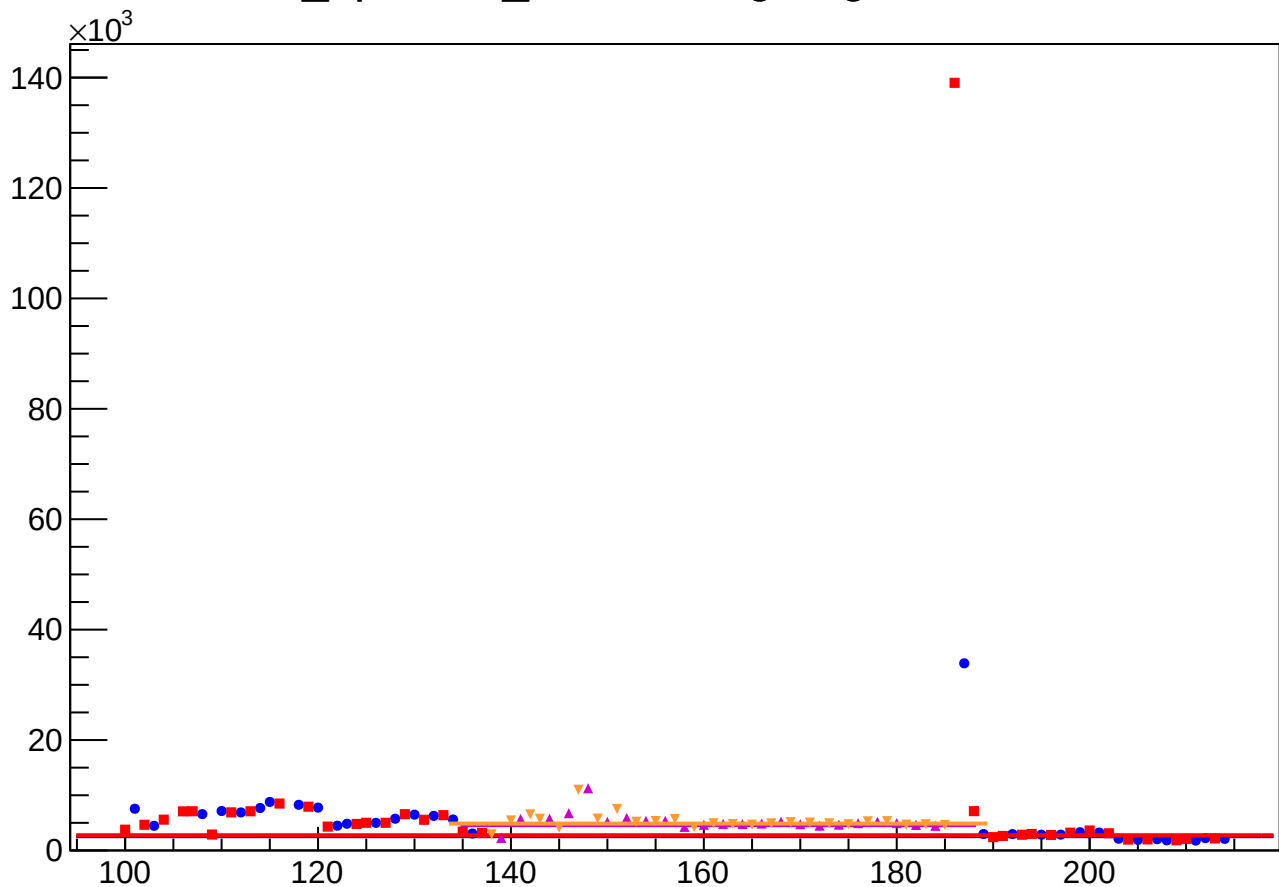
diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.144 ± 0.699 $\chi^2/\text{NDF}: 38.6/30$
 Left Out: -0.255 ± 1.173 $\chi^2/\text{NDF}: 18.0/24$
 Right Out: -0.798 ± 0.745 $\chi^2/\text{NDF}: 73.3/33$
 Left In: 0.925 ± 1.154 $\chi^2/\text{NDF}: 36.1/22$

Left: 0.345 ± 0.822 $\chi^2/\text{NDF}: 54.7/47$
 Right: 0.234 ± 0.510 $\chi^2/\text{NDF}: 115.5/64$
 In: 1.085 ± 0.598 $\chi^2/\text{NDF}: 74.8/53$
 Out: -0.642 ± 0.629 $\chi^2/\text{NDF}: 91.5/58$
 All: 0.265 ± 0.433 $\chi^2/\text{NDF}: 170.2/112$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2583.775 $\pm$ 0.494 χ^2/NDF : 5497134.9/30

Left Out: 4866.528 $\pm$ 0.829 χ^2/NDF : 1511486.2/24

Right Out: 2759.796 $\pm$ 0.527 χ^2/NDF : 5825333.9/33

Left In: 4582.193 $\pm$ 0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017 $\pm$ 0.582 χ^2/NDF : 4049906.1/47

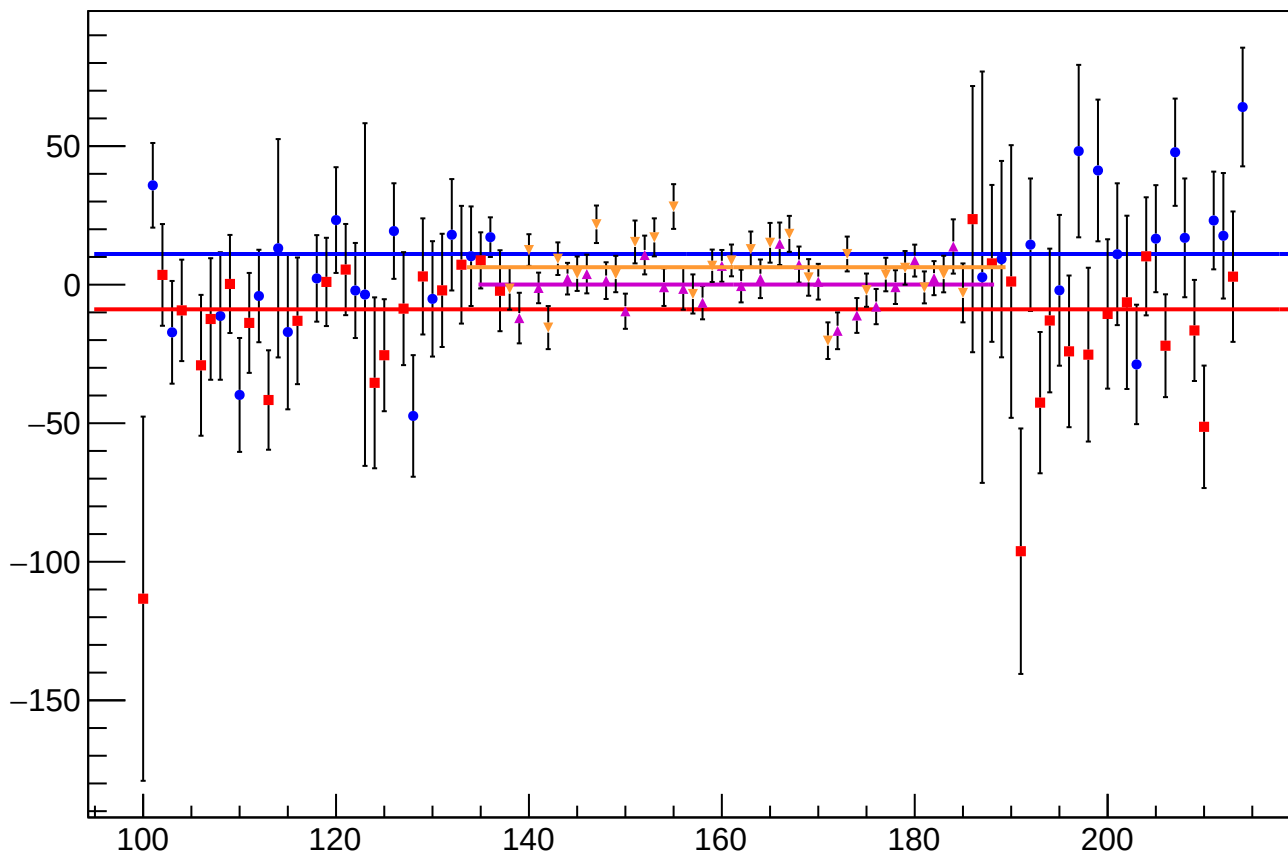
Right: 2666.213 $\pm$ 0.360 χ^2/NDF : 11381867.7/64

In: 3120.380 $\pm$ 0.423 χ^2/NDF : 12365396.2/53

Out: 3365.144 $\pm$ 0.445 χ^2/NDF : 11935443.8/58

All: 3236.604 $\pm$ 0.306 χ^2/NDF : 24460030.9/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 11.070 $\pm$ 3.420 χ^2/NDF : 41.0/30

Left Out: 6.302 $\pm$ 1.313 χ^2/NDF : 56.7/24

Right Out: -8.896 $\pm$ 3.573 χ^2/NDF : 26.7/33

Left In: 0.044 $\pm$ 1.358 χ^2/NDF : 30.0/22

Left: 3.279 $\pm$ 0.944 χ^2/NDF : 97.7/47

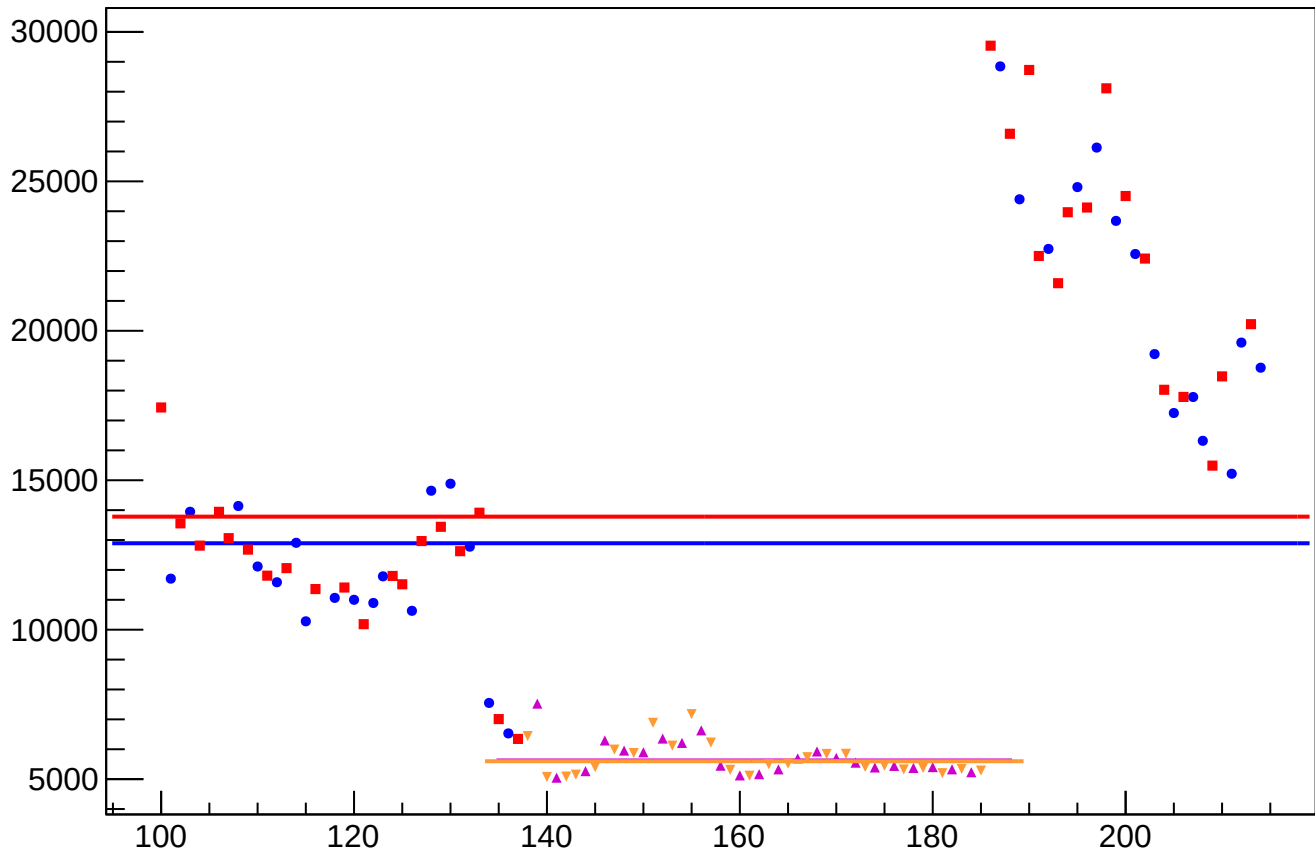
Right: 1.525 $\pm$ 2.471 χ^2/NDF : 83.9/64

In: 1.545 $\pm$ 1.262 χ^2/NDF : 80.0/53

Out: 4.495 $\pm$ 1.232 χ^2/NDF : 99.3/58

All: 3.056 $\pm$ 0.882 χ^2/NDF : 182.1/112

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12891.694 $\pm$ 2.418 χ^2 /NDF: 4797814.8/30

Left Out: 5598.786 $\pm$ 0.928 χ^2 /NDF:283253.4/24

Right Out: 13782.439 $\pm$ 2.527 χ^2 /NDF: 4669279.9/33

Left In: 5625.163 $\pm$ 0.960 χ^2 /NDF:272563.5/22

Left: 5611.528 $\pm$ 0.667 χ^2 /NDF: 556207.1/47

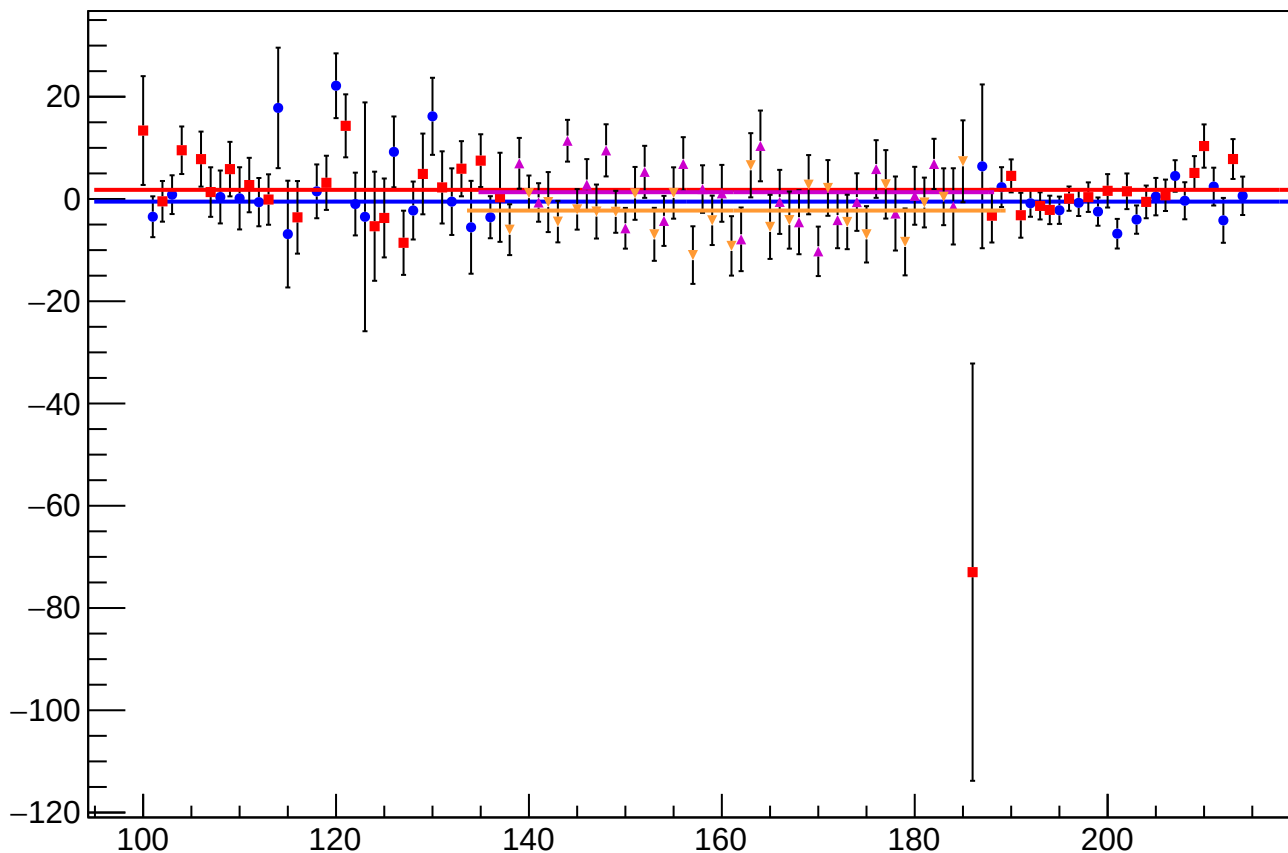
Right: 13317.540 $\pm$ 1.747 χ^2 /NDF: 9531958.2/64

In: 6614.528 $\pm$ 0.892 χ^2 /NDF:12870220.5/53

Out: 6571.696 $\pm$ 0.871 χ^2 /NDF:14195593.9/58

All: 6592.599 $\pm$ 0.623 χ^2 /NDF: 27066994.0/117

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.514 ± 0.735 χ^2/NDF : 36.4/30

Left Out: -2.262 ± 1.030 χ^2/NDF : 15.5/24

Right Out: 1.788 ± 0.724 χ^2/NDF : 35.3/33

Left In: 1.328 ± 1.082 χ^2/NDF : 30.6/22

Left: -0.555 ± 0.746 χ^2/NDF : 51.9/47

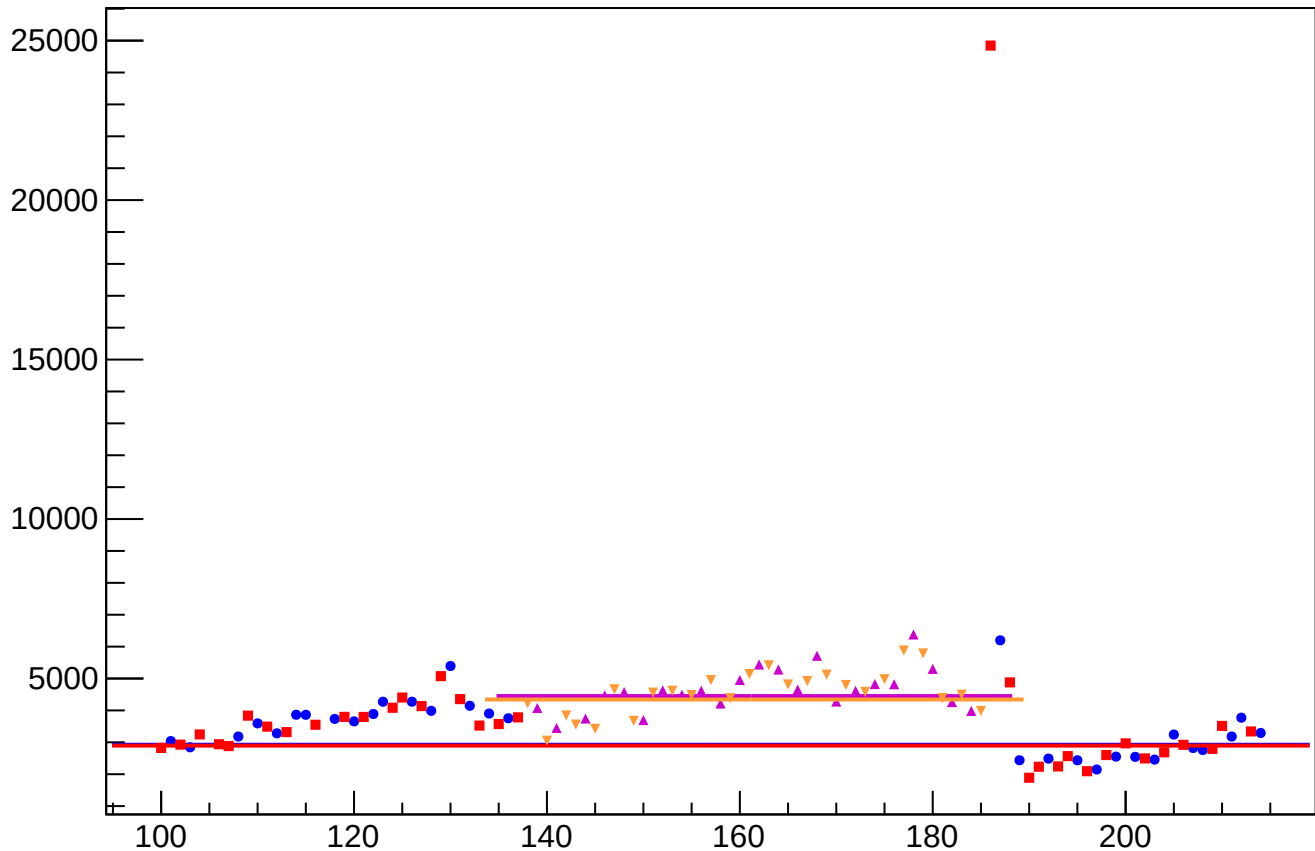
Right: 0.655 ± 0.516 χ^2/NDF : 76.7/64

In: 0.068 ± 0.608 χ^2/NDF : 69.0/53

Out: 0.449 ± 0.592 χ^2/NDF : 61.2/58

All: 0.263 ± 0.424 χ^2/NDF : 130.4/112

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2923.194+/-0.520 χ^2/NDF : 1408517.9/30

Left Out: 4342.635+/-0.728 χ^2/NDF : 993035.5/24

Right Out: 2896.641+/-0.512 χ^2/NDF : 2338181.1/33

Left In: 4450.007+/-0.765 χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528 χ^2/NDF : 1696596.0/47

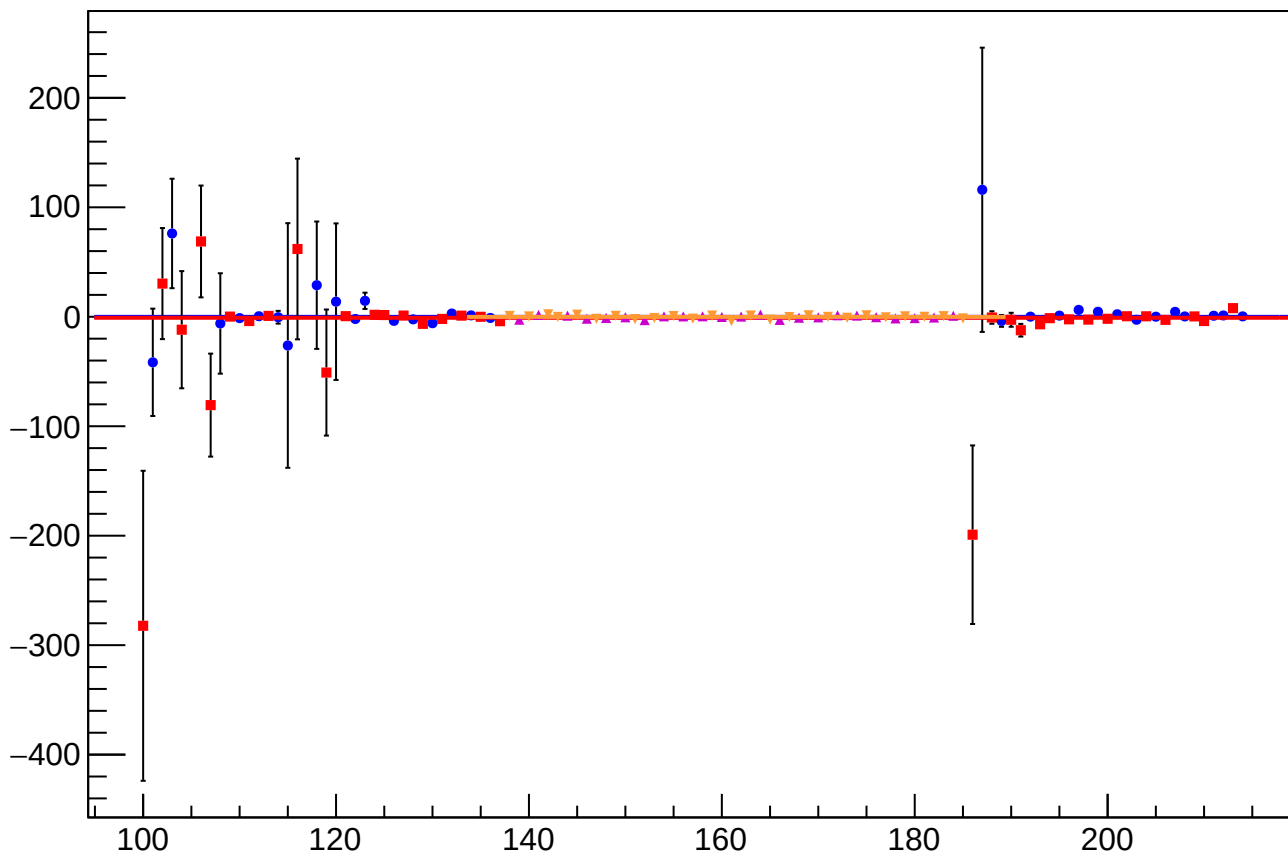
Right: 2909.714+/-0.365 χ^2/NDF : 3748022.8/64

In: 3405.605+/-0.430 χ^2/NDF : 4825840.0/53

Out: 3374.893+/-0.419 χ^2/NDF : 5968519.5/58

All: 3389.846+/-0.300 χ^2/NDF : 10796976.2/113

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.089 ± 0.538 $\chi^2/\text{NDF}: 32.2/30$

Left Out: -0.092 ± 0.249 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -0.915 ± 0.543 $\chi^2/\text{NDF}: 47.6/33$

Left In: -0.259 ± 0.257 $\chi^2/\text{NDF}: 27.2/22$

Left: -0.173 ± 0.179 $\chi^2/\text{NDF}: 61.9/47$

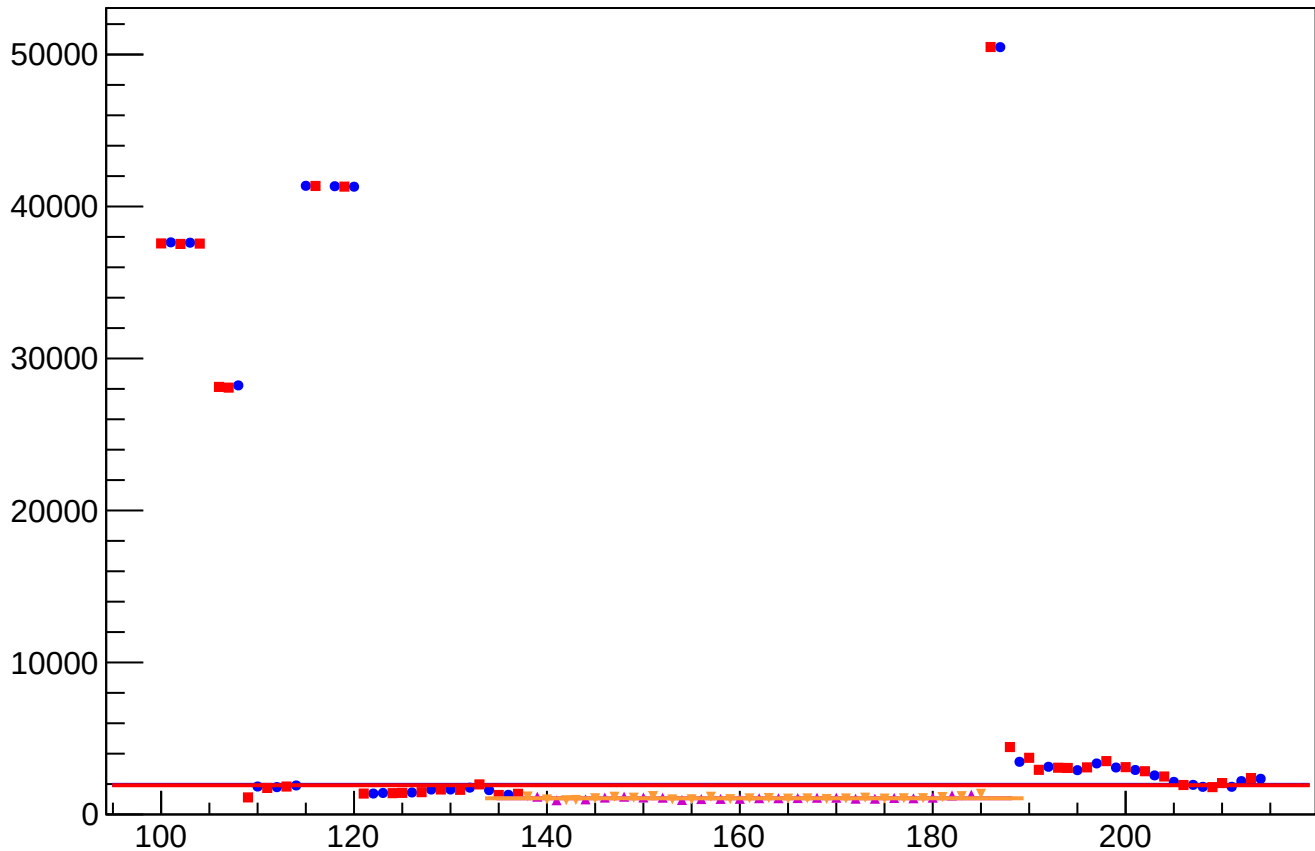
Right: -0.498 ± 0.382 $\chi^2/\text{NDF}: 80.9/64$

In: -0.228 ± 0.232 $\chi^2/\text{NDF}: 59.5/53$

Out: -0.235 ± 0.226 $\chi^2/\text{NDF}: 83.9/58$

All: -0.231 ± 0.162 $\chi^2/\text{NDF}: 143.4/112$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1947.407 ± 0.381 χ^2/NDF : 6998519.4/30

Left Out: 1064.701 ± 0.176 χ^2/NDF : 186511.5/24

Right Out: 1921.853 ± 0.384 χ^2/NDF : 8414511.1/33

Left In: 1066.255 ± 0.182 χ^2/NDF : 164232.1/22

Left: 1065.454 ± 0.126 χ^2/NDF : 350781.3/47

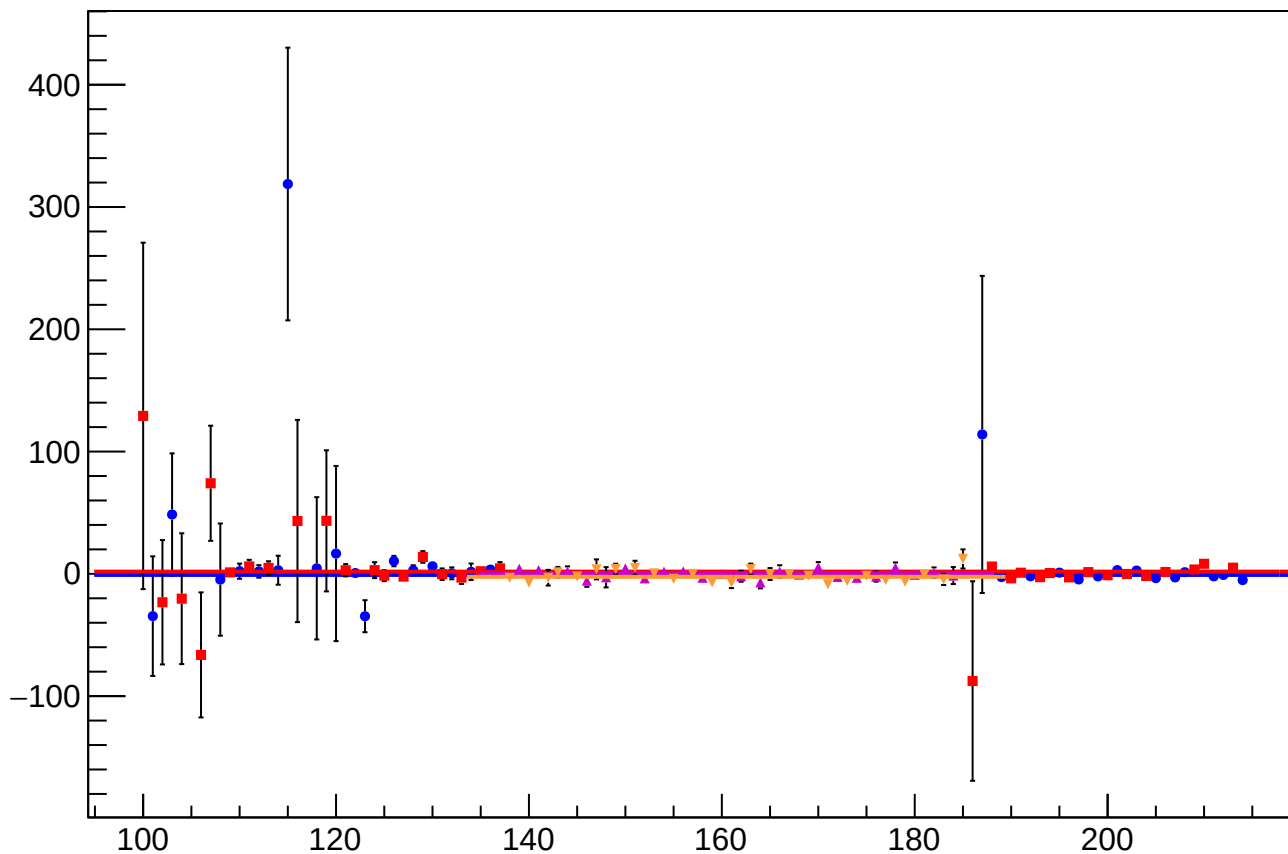
Right: 1934.744 ± 0.270 χ^2/NDF : 15415264.8/64

In: 1229.827 ± 0.164 χ^2/NDF : 11528339.6/53

Out: 1213.652 ± 0.160 χ^2/NDF : 12718011.5/58

All: 1221.545 ± 0.115 χ^2/NDF : 24251333.4/115

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -0.872 ± 0.469 $\chi^2/\text{NDF}: 58.0/30$

Left Out: -2.422 ± 0.811 $\chi^2/\text{NDF}: 21.2/24$

Right Out: 1.827 ± 0.500 $\chi^2/\text{NDF}: 57.4/33$

Left In: 0.468 ± 0.843 $\chi^2/\text{NDF}: 15.5/22$

Left: -1.033 ± 0.584 $\chi^2/\text{NDF}: 42.8/47$

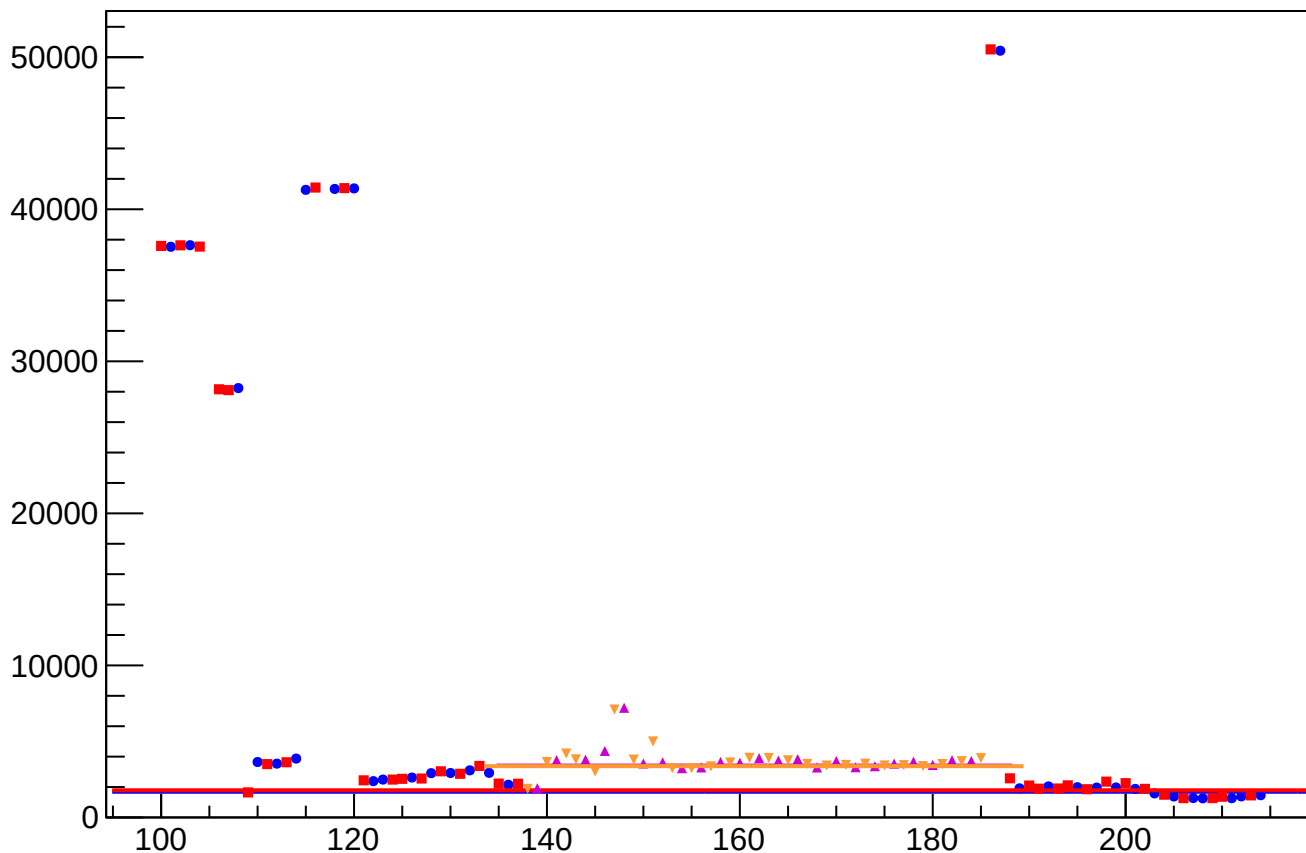
Right: 0.392 ± 0.342 $\chi^2/\text{NDF}: 130.9/64$

In: -0.555 ± 0.410 $\chi^2/\text{NDF}: 75.4/53$

Out: 0.657 ± 0.425 $\chi^2/\text{NDF}: 98.5/58$

All: 0.029 ± 0.295 $\chi^2/\text{NDF}: 178.2/112$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1690.385 $\pm$ 0.332 χ^2 /NDF: 7076948.9/30

Left Out: 3372.958 $\pm$ 0.573 χ^2 /NDF:1656864.7/24

Right Out: 1787.180 $\pm$ 0.353 χ^2 /NDF: 7540053.6/33

Left In: 3411.924 $\pm$ 0.596 χ^2 /NDF:1434523.7/22

Left: 3391.680 $\pm$ 0.413 χ^2 /NDF: 3093609.1/47

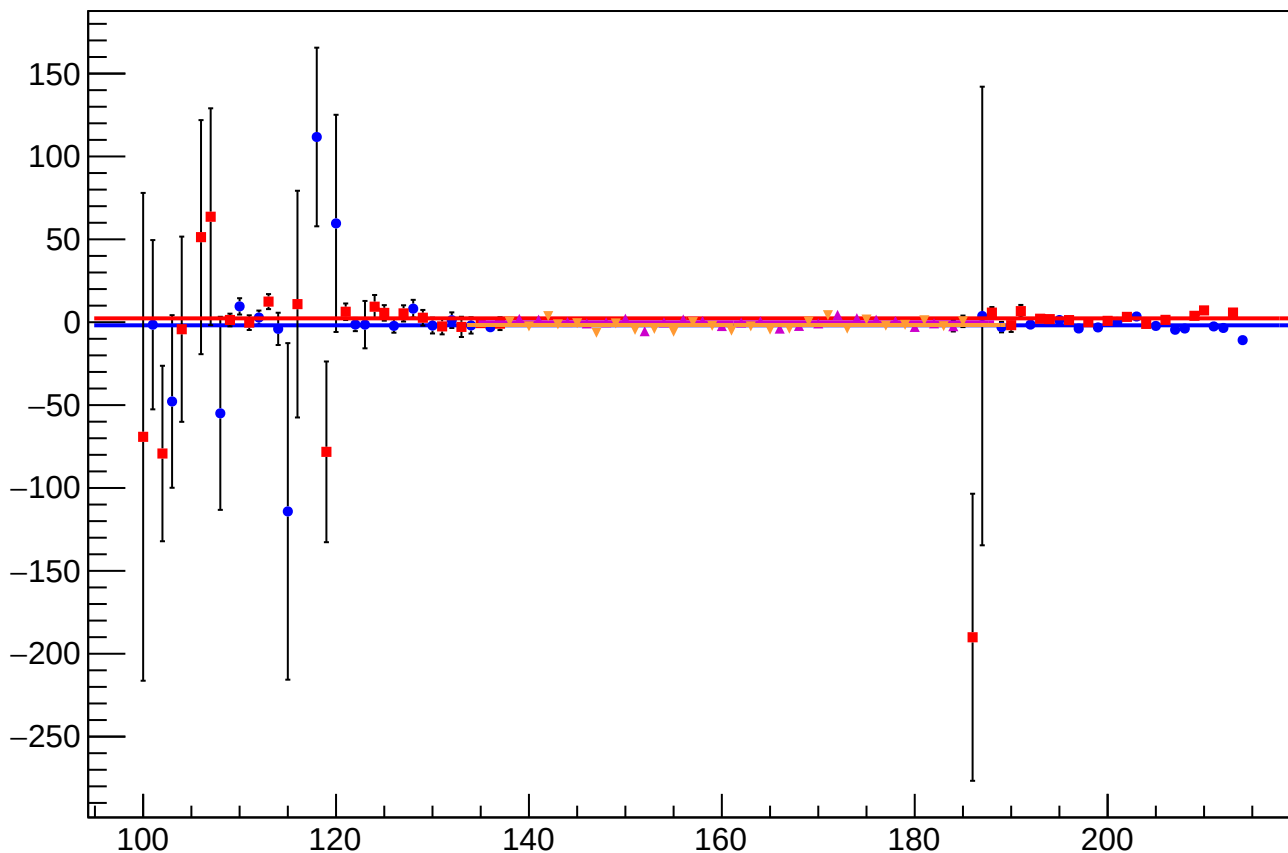
Right: 1735.732 $\pm$ 0.242 χ^2 /NDF: 14656899.4/64

In: 2097.505 $\pm$ 0.290 χ^2 /NDF:14882021.8/53

Out: 2223.832 $\pm$ 0.301 χ^2 /NDF:14744294.1/58

All: 2158.333 $\pm$ 0.209 χ^2 /NDF: 29717794.5/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.865 ± 0.585 χ^2/NDF : 39.4/30

Left Out: -1.672 ± 0.388 χ^2/NDF : 45.7/24

Right Out: 2.328 ± 0.598 χ^2/NDF : 34.9/33

Left In: -0.072 ± 0.401 χ^2/NDF : 28.2/22

Left: -0.898 ± 0.279 χ^2/NDF : 82.1/47

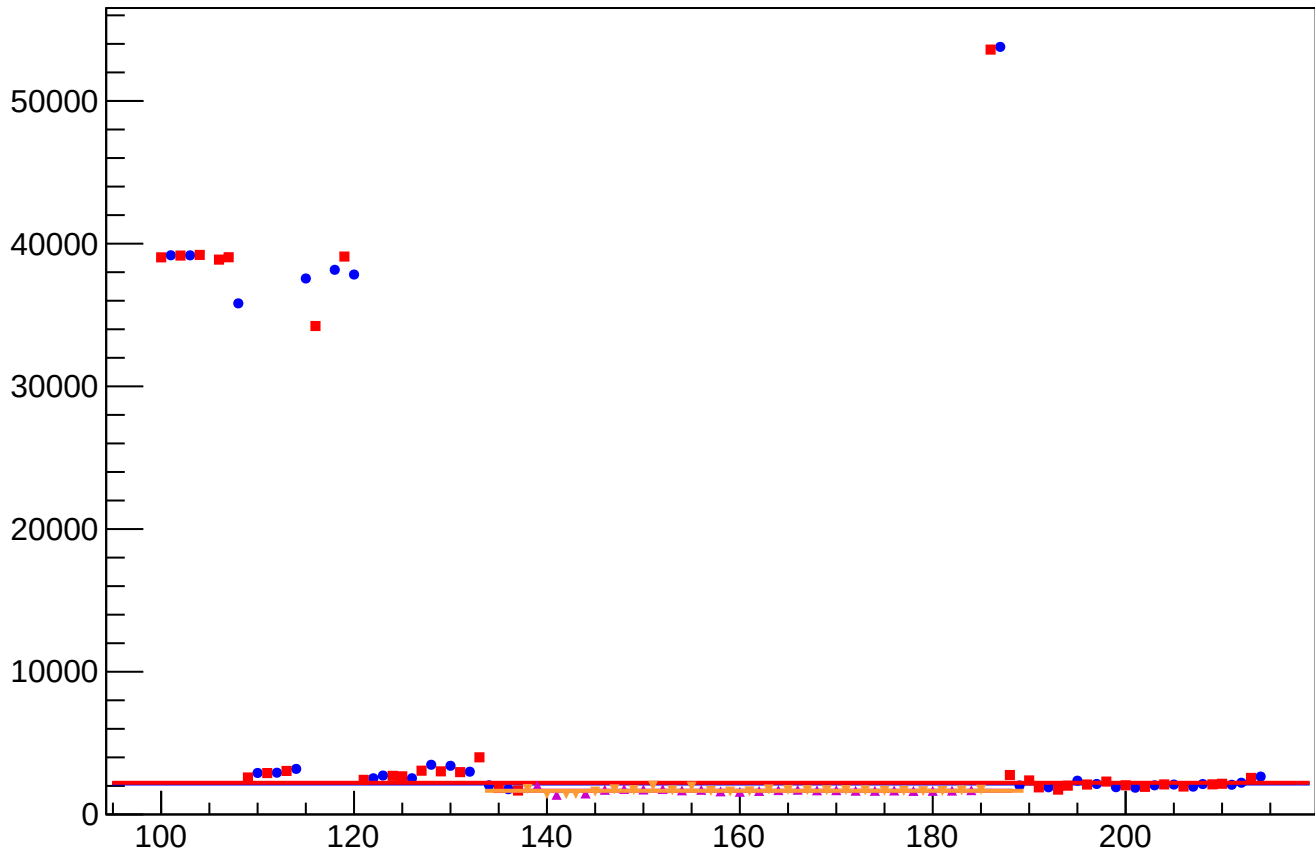
Right: 0.182 ± 0.418 χ^2/NDF : 99.4/64

In: -0.646 ± 0.331 χ^2/NDF : 74.0/53

Out: -0.488 ± 0.326 χ^2/NDF : 112.0/58

All: -0.566 ± 0.232 χ^2/NDF : 186.1/112

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2167.179+/-0.413 χ^2/NDF : 5515706.1/30

Left Out: 1657.770+/-0.274 χ^2/NDF : 223465.3/24

Right Out: 2218.675+/-0.423 χ^2/NDF : 6094244.7/33

Left In: 1663.620+/-0.284 χ^2/NDF : 178858.2/22

Left: 1660.599+/-0.197 χ^2/NDF : 402543.2/47

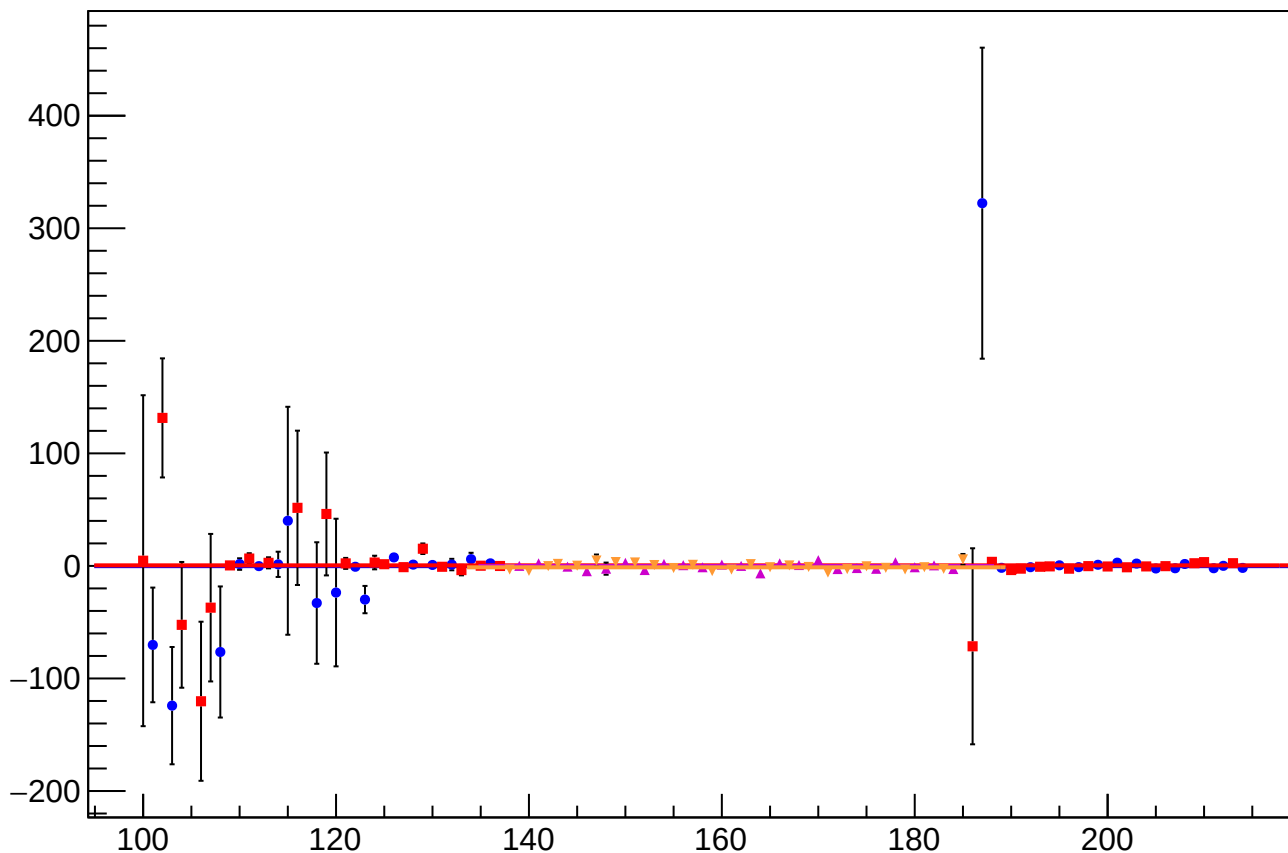
Right: 2192.324+/-0.296 χ^2/NDF : 11617529.8/64

In: 1824.786+/-0.234 χ^2/NDF : 6703716.5/53

Out: 1823.827+/-0.230 χ^2/NDF : 7554642.2/58

All: 1824.299+/-0.164 χ^2/NDF : 14258367.2/112

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.222 ± 0.405 $\chi^2/\text{NDF}: 45.0/30$

Left Out: -1.251 ± 0.535 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 0.517 ± 0.425 $\chi^2/\text{NDF}: 43.0/33$

Left In: -0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

Left: -0.681 ± 0.380 $\chi^2/\text{NDF}: 43.3/47$

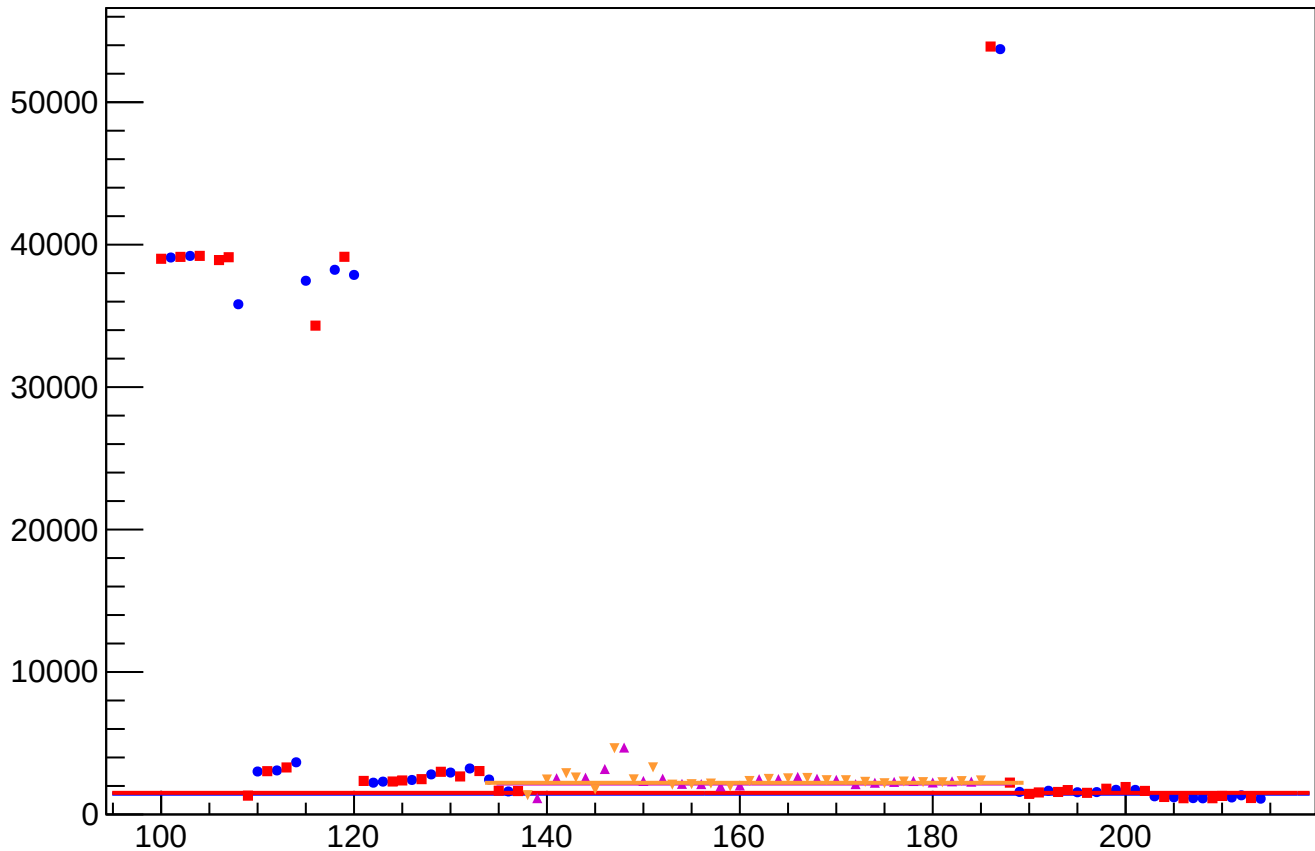
Right: 0.129 ± 0.293 $\chi^2/\text{NDF}: 89.5/64$

In: -0.178 ± 0.324 $\chi^2/\text{NDF}: 64.3/53$

Out: -0.167 ± 0.333 $\chi^2/\text{NDF}: 71.4/58$

All: -0.172 ± 0.232 $\chi^2/\text{NDF}: 135.7/112$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1455.736 $\pm$ 0.286 χ^2 /NDF: 7171148.9/30

Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF: 1422440.9/24

Right Out: 1516.763 $\pm$ 0.300 χ^2 /NDF: 7638216.3/33

Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF: 1974869.8/22

Left: 2196.064 $\pm$ 0.269 χ^2 /NDF: 3406878.6/47

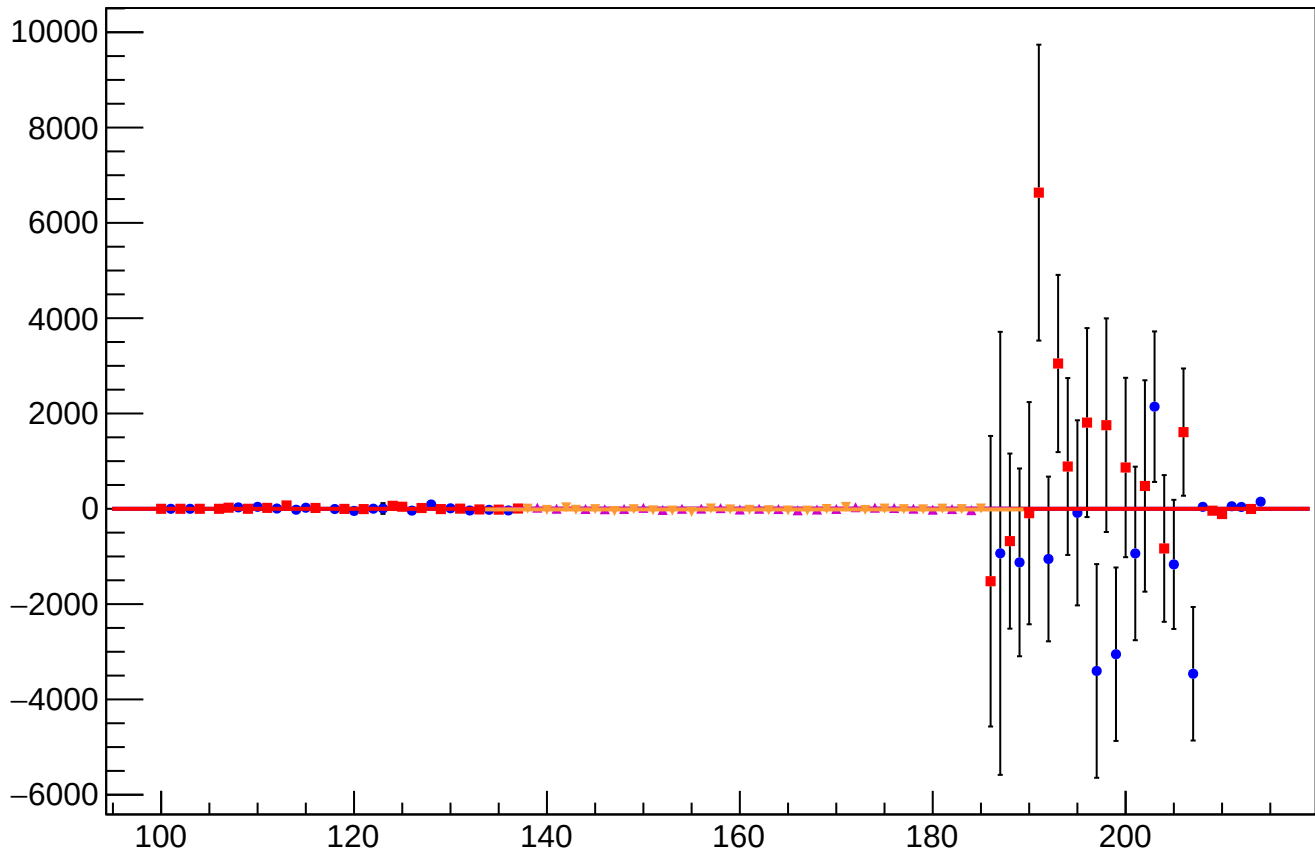
Right: 1484.771 $\pm$ 0.207 χ^2 /NDF: 14830999.3/64

In: 1711.712 $\pm$ 0.229 χ^2 /NDF: 11376582.2/53

Out: 1789.499 $\pm$ 0.235 χ^2 /NDF: 11192278.4/58

All: 1749.589 $\pm$ 0.164 χ^2 /NDF: 22624950.6/115

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 43.8/30

Left Out: -13.484+/-2.800 χ^2/NDF : 58.7/24

Right Out: -0.003+/-0.016 χ^2/NDF : 33.2/33

Left In: 0.459+/-2.917 χ^2/NDF : 29.0/22

Left: -6.796+/-2.020 χ^2/NDF : 99.5/47

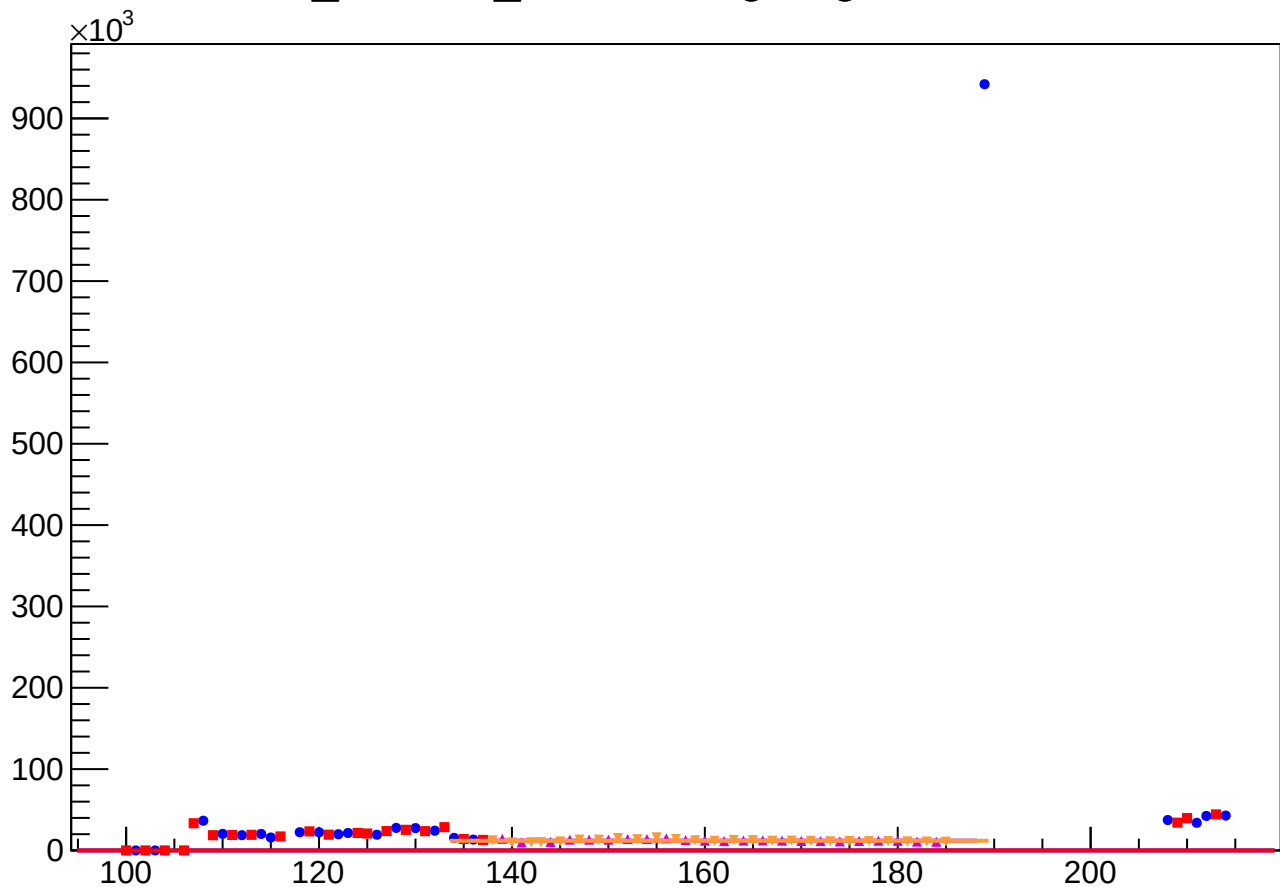
Right: 0.004+/-0.012 χ^2/NDF : 77.5/64

In: 0.013+/-0.017 χ^2/NDF : 72.8/53

Out: -0.004+/-0.016 χ^2/NDF : 115.0/58

All: 0.004+/-0.012 χ^2/NDF : 188.4/112

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.663+/-0.012 χ^2/NDF : 16803711.1/21

Left Out: 11910.325+/-1.980 χ^2/NDF : 476504.3/24

Right Out: 18.325+/-0.011 χ^2/NDF : 15377929.3/21

Left In: 12064.761+/-2.062 χ^2/NDF : 368452.5/22

Left: 11984.403+/-1.428 χ^2/NDF : 847874.4/47

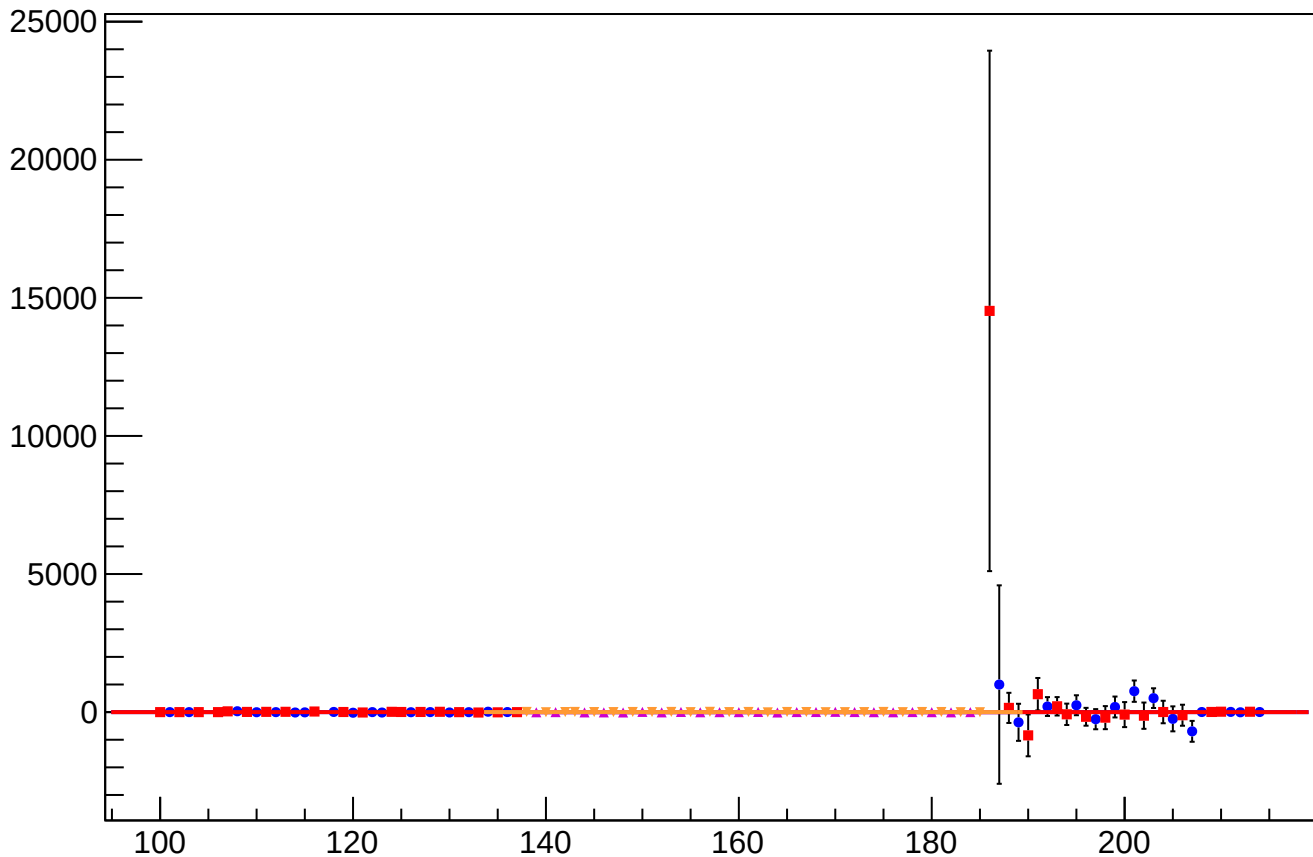
Right: 18.482+/-0.008 χ^2/NDF : 32182048.9/43

In: 19.089+/-0.012 χ^2/NDF : 51285905.4/44

Out: 18.717+/-0.011 χ^2/NDF : 51919688.5/46

All: 18.889+/-0.008 χ^2/NDF : 103206088.0/91

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/30

Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF:18.4/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 33.2/33

Left In: -0.939 $\pm$ 1.049 χ^2 /NDF:35.6/22

Left: 0.388 $\pm$ 0.732 χ^2 /NDF: 57.1/47

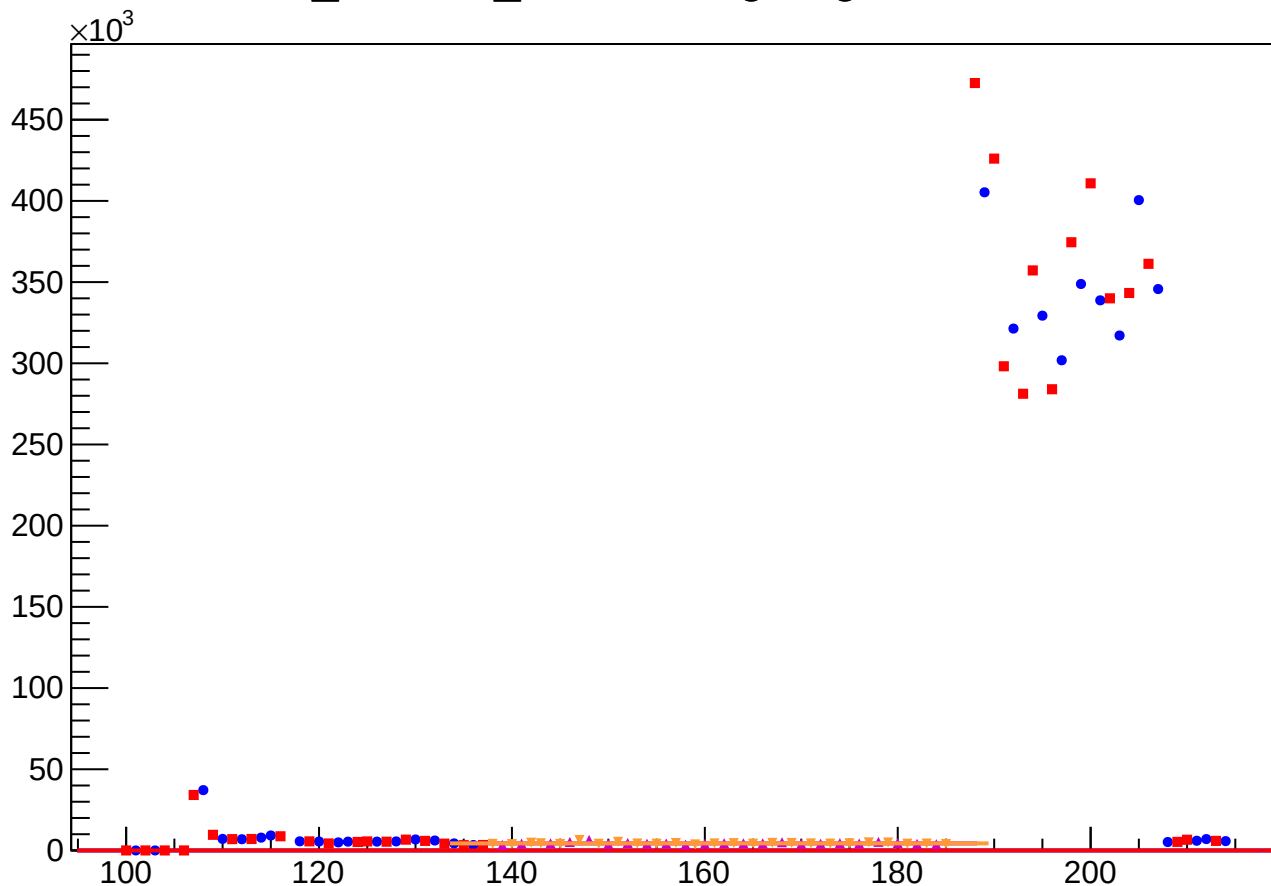
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 61.2/64

In: 0.001 $\pm$ 0.009 χ^2 /NDF:63.1/53

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:54.2/58

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 118.6/112

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.980 $\pm$ 0.007 χ^2 /NDF: 30266932.2/29

Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24

Right Out: 9.883 $\pm$ 0.006 χ^2 /NDF: 30164910.9/32

Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47

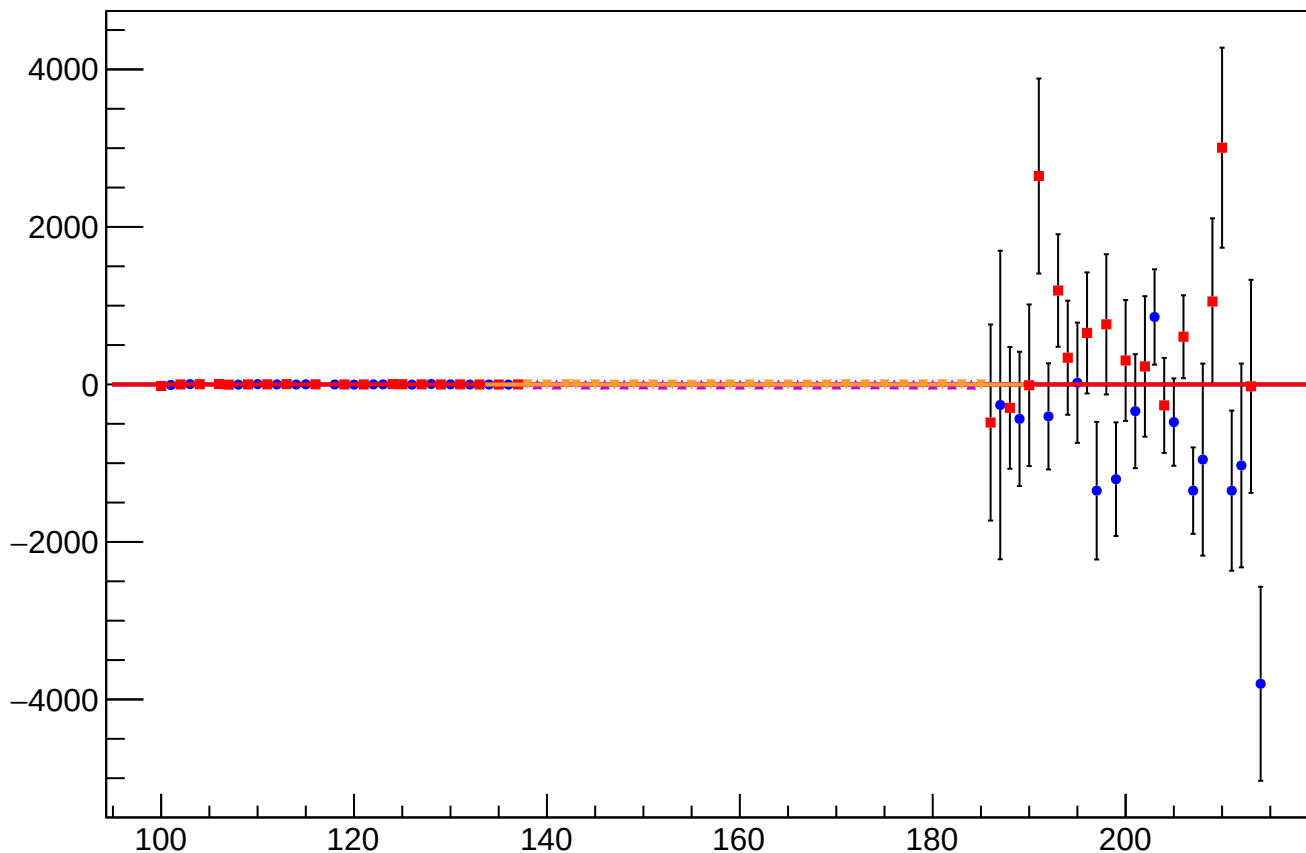
Right: 9.929 $\pm$ 0.004 χ^2 /NDF: 60431962.6/62

In: 10.312 $\pm$ 0.007 χ^2 /NDF:64598026.9/52

Out: 10.194 $\pm$ 0.006 χ^2 /NDF:66593608.4/57

All: 10.249 $\pm$ 0.004 χ^2 /NDF: 131191812.5/111

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.717 ± 0.483 $\chi^2/\text{NDF}: 50.0/30$

Left Out: -0.775 ± 0.165 $\chi^2/\text{NDF}: 58.5/24$

Right Out: 0.641 ± 0.501 $\chi^2/\text{NDF}: 30.7/33$

Left In: 0.018 ± 0.171 $\chi^2/\text{NDF}: 29.4/22$

Left: -0.393 ± 0.119 $\chi^2/\text{NDF}: 99.1/47$

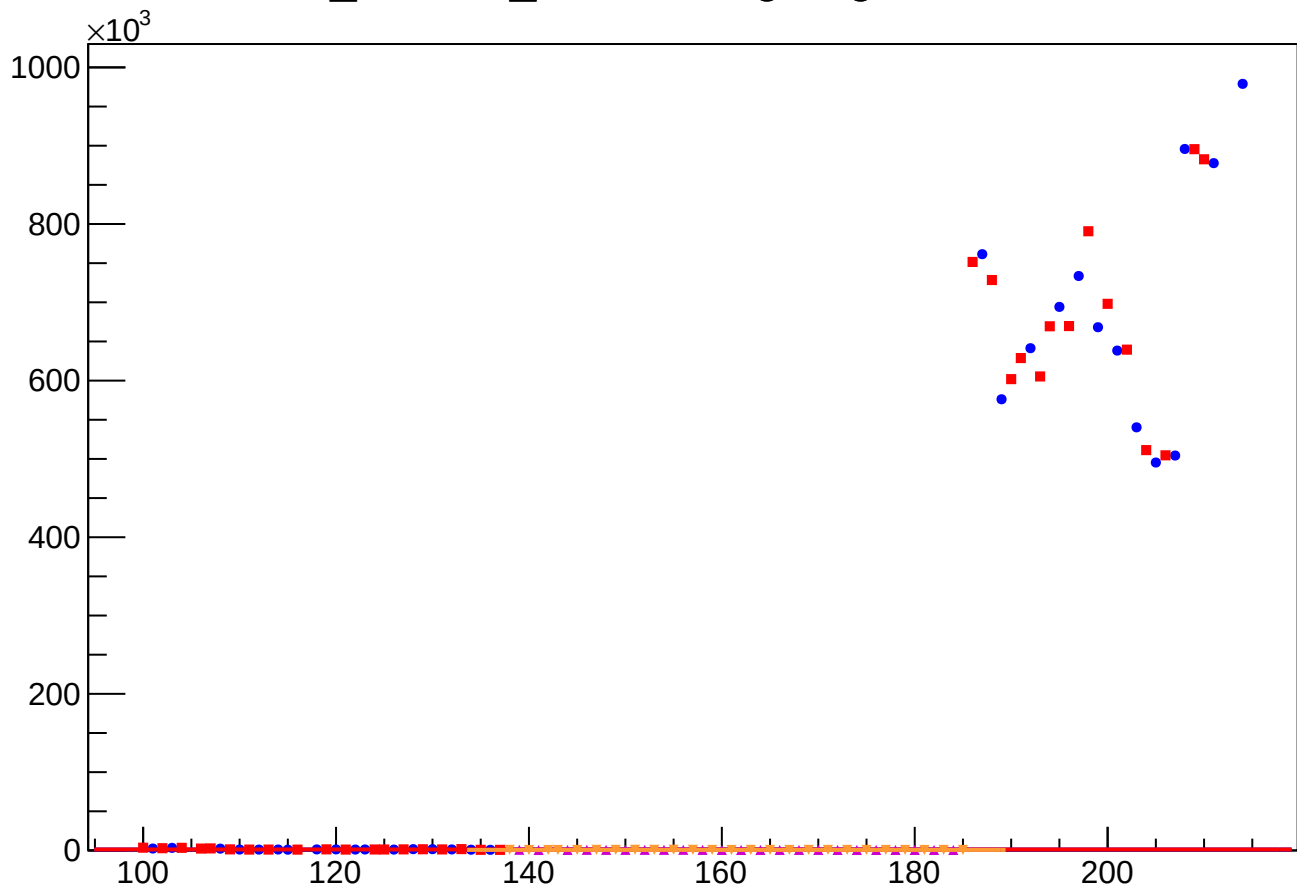
Right: -0.063 ± 0.348 $\chi^2/\text{NDF}: 84.5/64$

In: -0.063 ± 0.161 $\chi^2/\text{NDF}: 81.5/53$

Out: -0.637 ± 0.156 $\chi^2/\text{NDF}: 96.4/58$

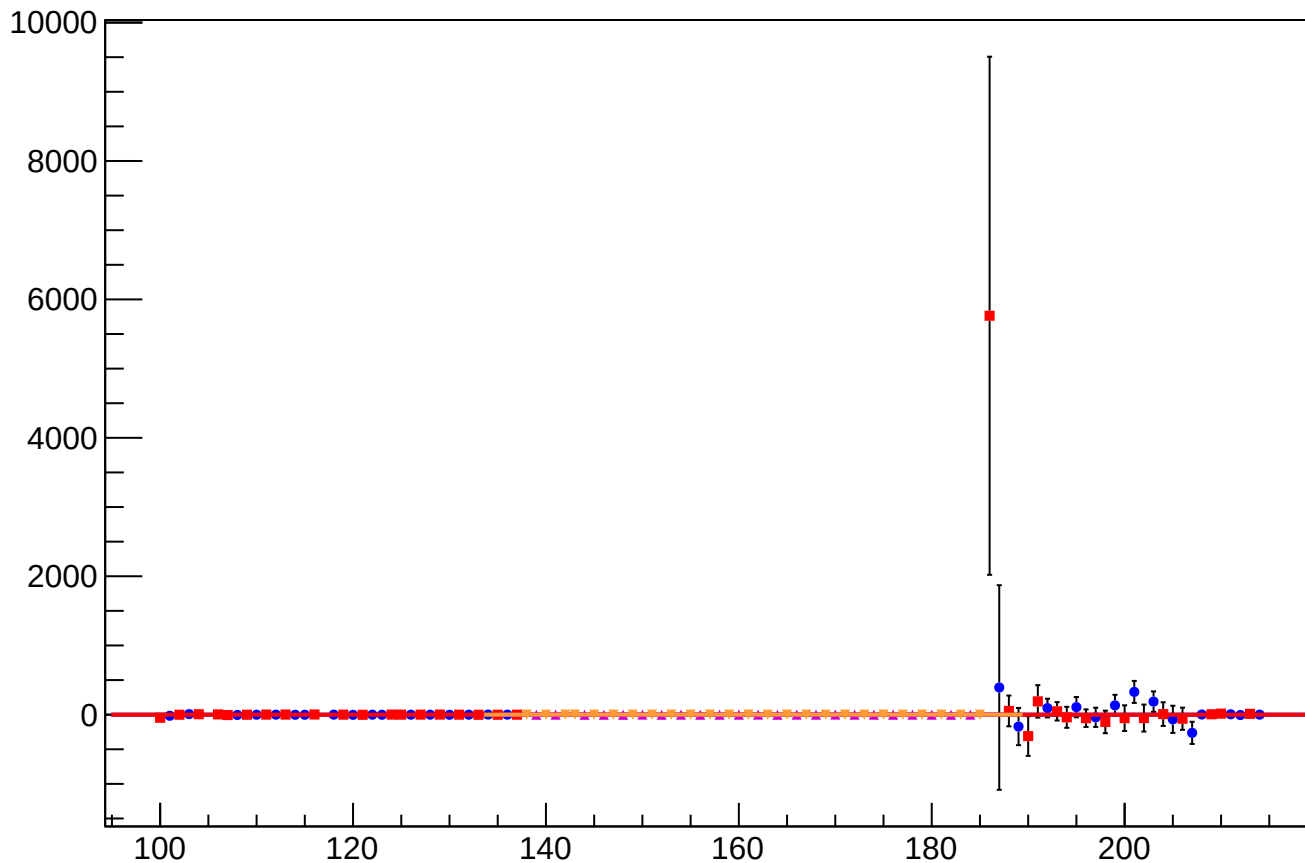
All: -0.359 ± 0.112 $\chi^2/\text{NDF}: 184.5/112$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.222+/-0.342 χ^2/NDF : 18435109.0/29
 Left: 703.867+/-0.084 χ^2/NDF : 726141.0/47
 Left Out: 700.984+/-0.116 χ^2/NDF : 392855.4/24
 Right: 1209.229+/-0.246 χ^2/NDF : 37448083.5/62
 Right Out: 1251.257+/-0.355 χ^2/NDF : 18985888.9/32
 In: 758.427+/-0.114 χ^2/NDF : 20401736.3/52
 Left In: 706.971+/-0.121 χ^2/NDF : 332011.4/22
 Out: 754.488+/-0.111 χ^2/NDF : 21552750.8/57
 All: 756.400+/-0.079 χ^2/NDF : 41955103.1/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.046 ± 0.268 χ^2/NDF : 32.1/30

Left Out: 0.233 ± 0.123 χ^2/NDF : 18.0/24

Right Out: -0.214 ± 0.264 χ^2/NDF : 37.1/33

Left In: -0.126 ± 0.126 χ^2/NDF : 35.0/22

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

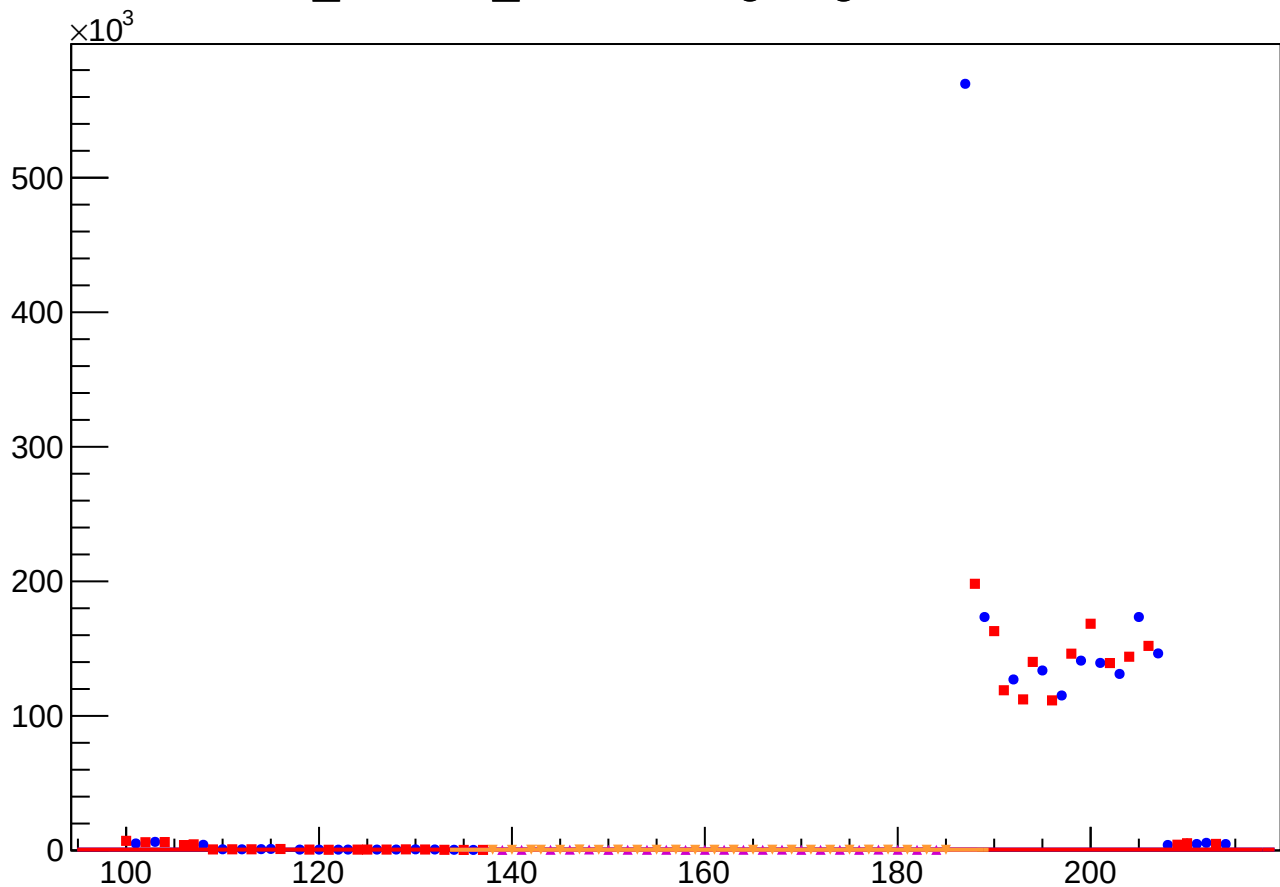
Right: -0.131 ± 0.188 χ^2/NDF : 69.3/64

In: -0.111 ± 0.114 χ^2/NDF : 67.1/53

Out: 0.154 ± 0.111 χ^2/NDF : 57.4/58

All: 0.025 ± 0.080 χ^2/NDF : 127.3/112

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 649.643 $\pm$ 0.189 χ^2/NDF : 21268976.3/30

Left Out: 522.220 $\pm$ 0.087 χ^2/NDF : 330405.3/24

Right Out: 629.609 $\pm$ 0.186 χ^2/NDF : 21588201.2/32

Left In: 520.700 $\pm$ 0.089 χ^2/NDF : 427720.5/22

Left: 521.481 $\pm$ 0.062 χ^2/NDF : 758275.0/47

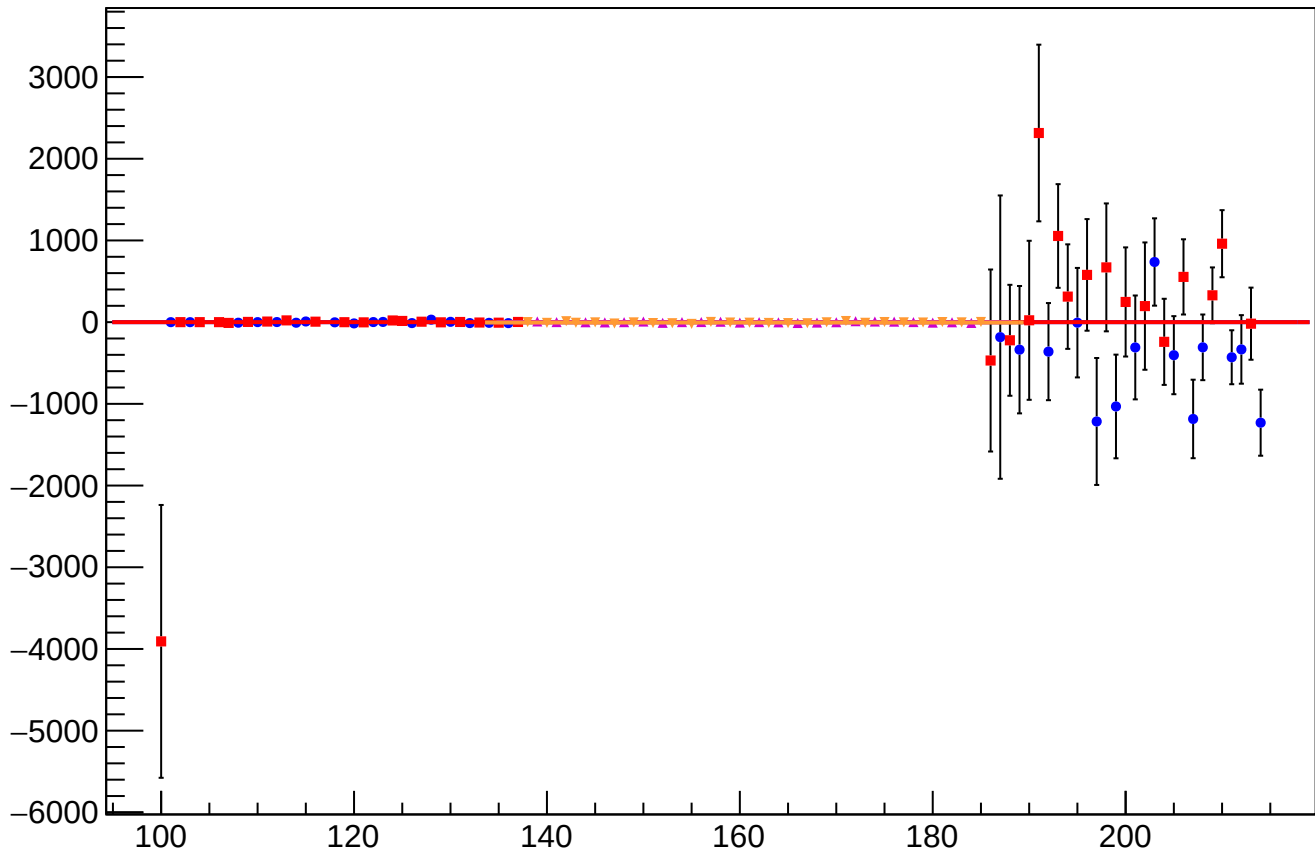
Right: 639.466 $\pm$ 0.133 χ^2/NDF : 42862863.6/63

In: 544.115 $\pm$ 0.081 χ^2/NDF : 22076169.6/53

Out: 541.326 $\pm$ 0.079 χ^2/NDF : 22191601.3/57

All: 542.684 $\pm$ 0.056 χ^2/NDF : 44268383.6/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 42.7/30

Left Out: -4.480 $\pm$ 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 35.0/33

Left In: 0.183 $\pm$ 0.994 χ^2/NDF : 29.5/22

Left: -2.236 $\pm$ 0.689 χ^2/NDF : 99.3/47

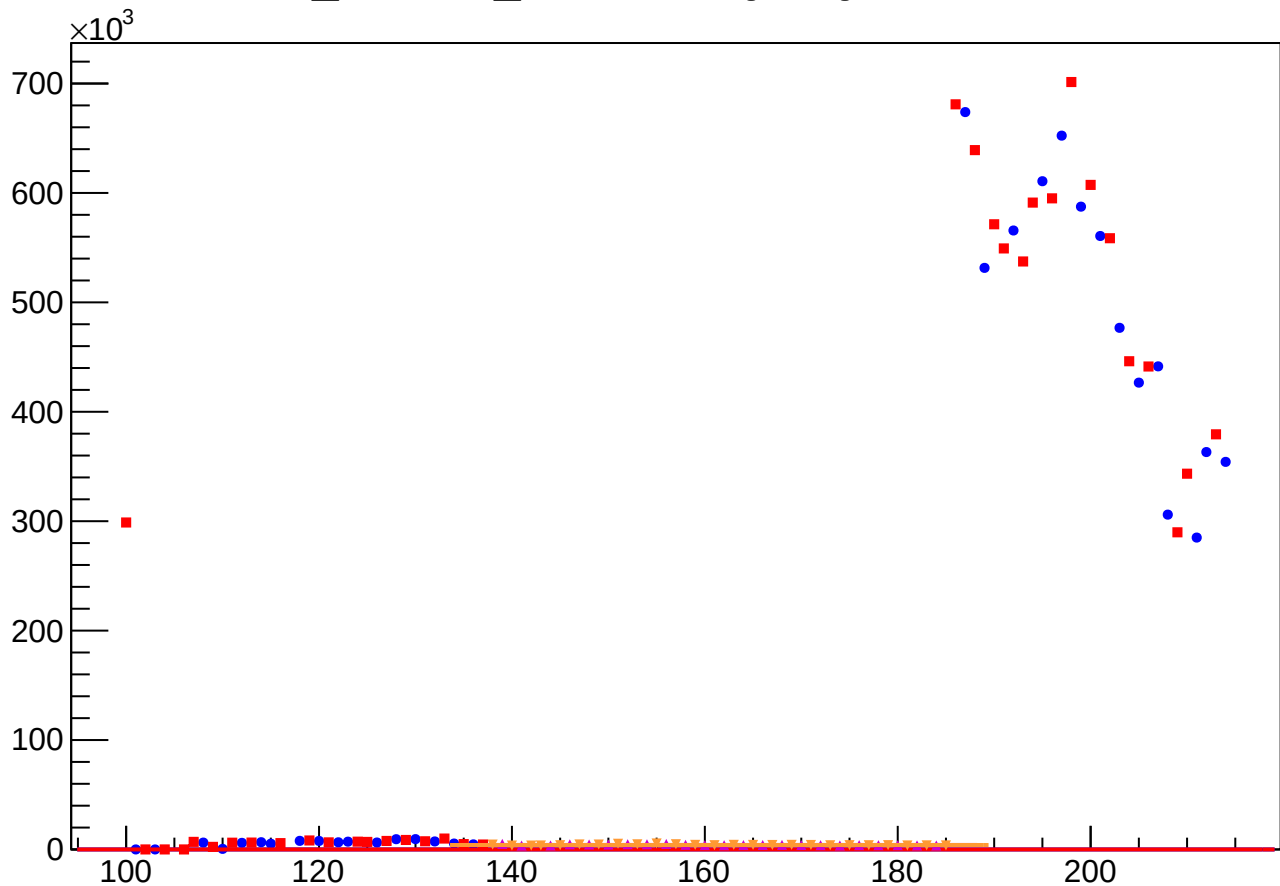
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 80.6/64

In: -0.022 $\pm$ 0.021 χ^2/NDF : 72.3/53

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 115.6/58

All: 0.003 $\pm$ 0.014 χ^2/NDF : 190.5/112

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.349+/-0.015 χ^2/NDF : 30400546.3/30

Left Out: 4075.147+/-0.677 χ^2/NDF : 417511.0/24

Right Out: 17.276+/-0.014 χ^2/NDF : 31008993.5/33

Left In: 4113.993+/-0.703 χ^2/NDF : 349160.6/22

Left: 4093.835+/-0.488 χ^2/NDF : 768256.5/47

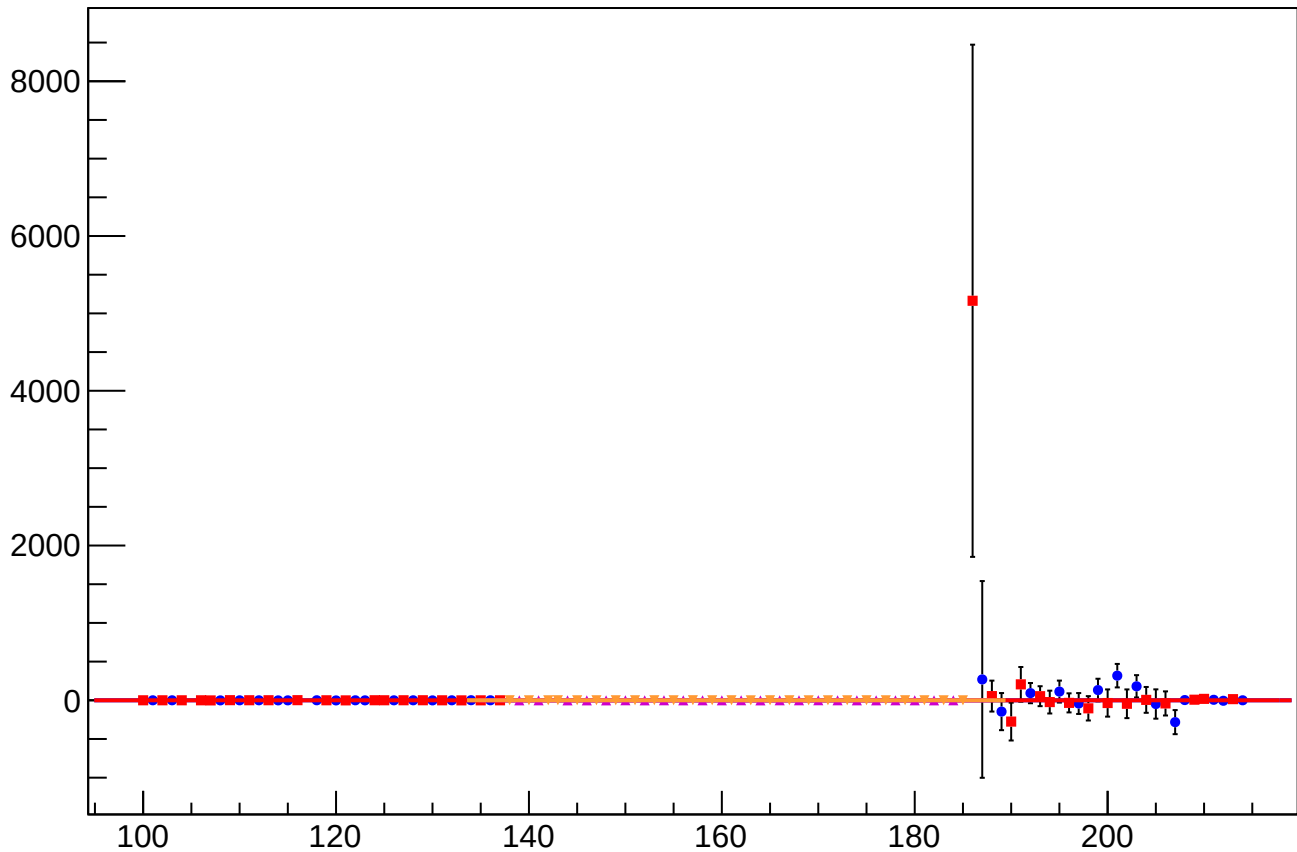
Right: 17.310+/-0.010 χ^2/NDF : 61409552.9/64

In: 19.141+/-0.015 χ^2/NDF : 64702924.1/53

Out: 19.007+/-0.014 χ^2/NDF : 67361908.9/58

All: 19.071+/-0.010 χ^2/NDF : 132064876.3/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 27.2/30$

Left Out: 0.148 ± 0.076 $\chi^2/\text{NDF}: 17.3/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 35.7/33$

Left In: -0.080 ± 0.079 $\chi^2/\text{NDF}: 34.6/22$

Left: 0.038 ± 0.055 $\chi^2/\text{NDF}: 56.3/47$

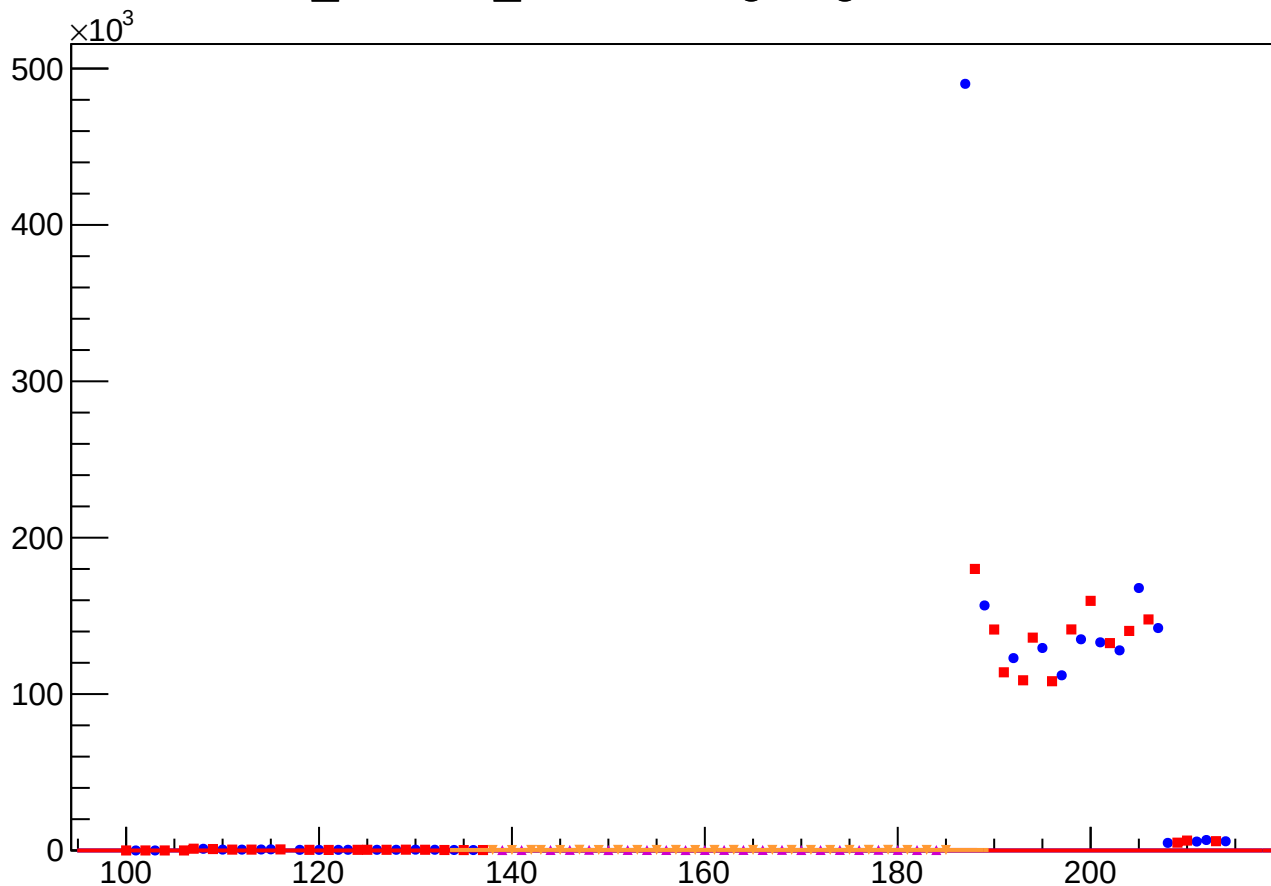
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 63.1/64$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 62.9/53$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 56.9/58$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 119.8/112$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.701 $\pm$ 0.001 χ^2 /NDF: 30667076.9/30

Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24

Right Out: 1.730 $\pm$ 0.001 χ^2 /NDF: 29949251.2/32

Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47

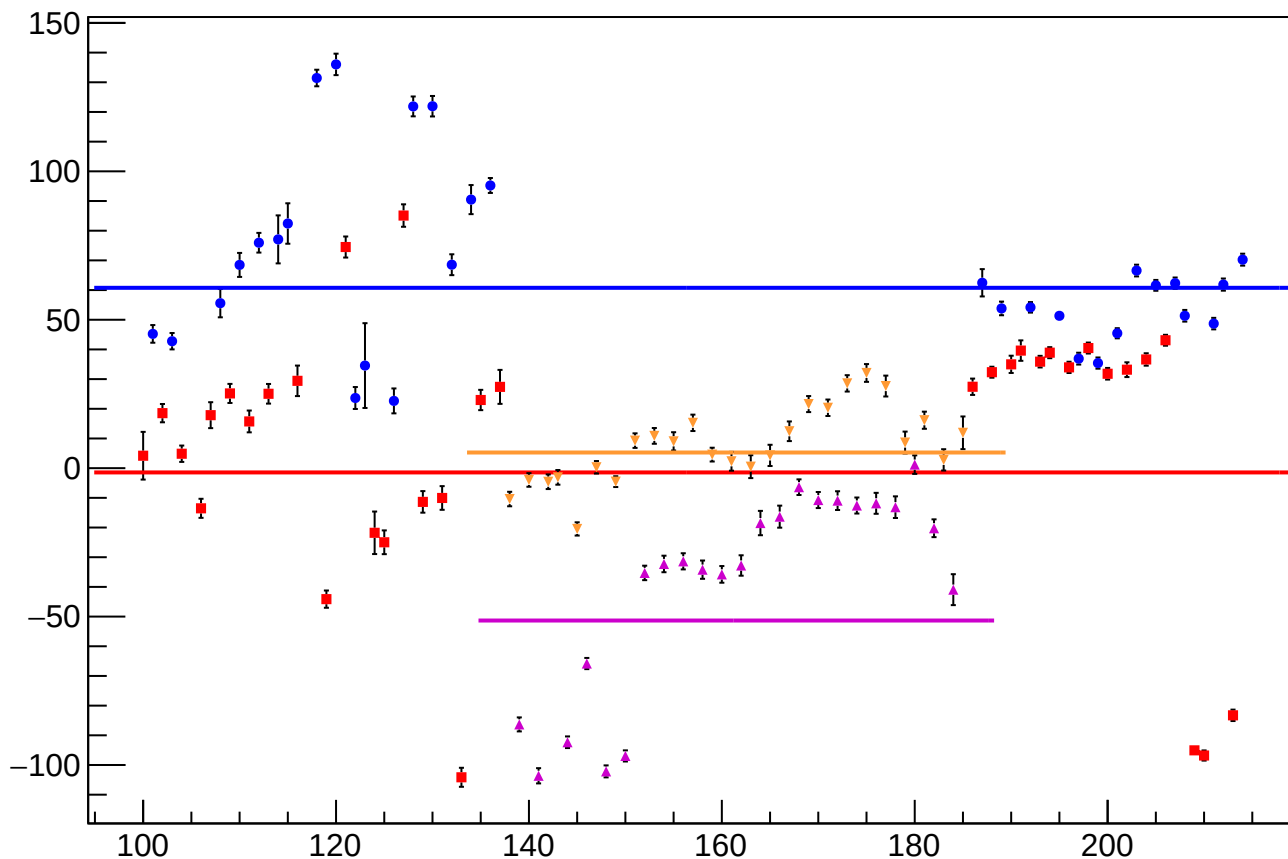
Right: 1.716 $\pm$ 0.001 χ^2 /NDF: 60616536.2/63

In: 1.915 $\pm$ 0.001 χ^2 /NDF:64808774.0/53

Out: 1.938 $\pm$ 0.001 χ^2 /NDF:66156427.7/57

All: 1.927 $\pm$ 0.001 χ^2 /NDF: 130965340.8/111

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 60.760 ± 0.452 $\chi^2/\text{NDF}: 2801.0/30$

Left Out: 5.276 ± 0.544 $\chi^2/\text{NDF}: 556.2/24$

Right Out: -1.437 ± 0.435 $\chi^2/\text{NDF}: 16407.2/33$

Left In: -51.328 ± 0.558 $\chi^2/\text{NDF}: 4257.8/22$

Left: -22.298 ± 0.390 $\chi^2/\text{NDF}: 10084.6/47$

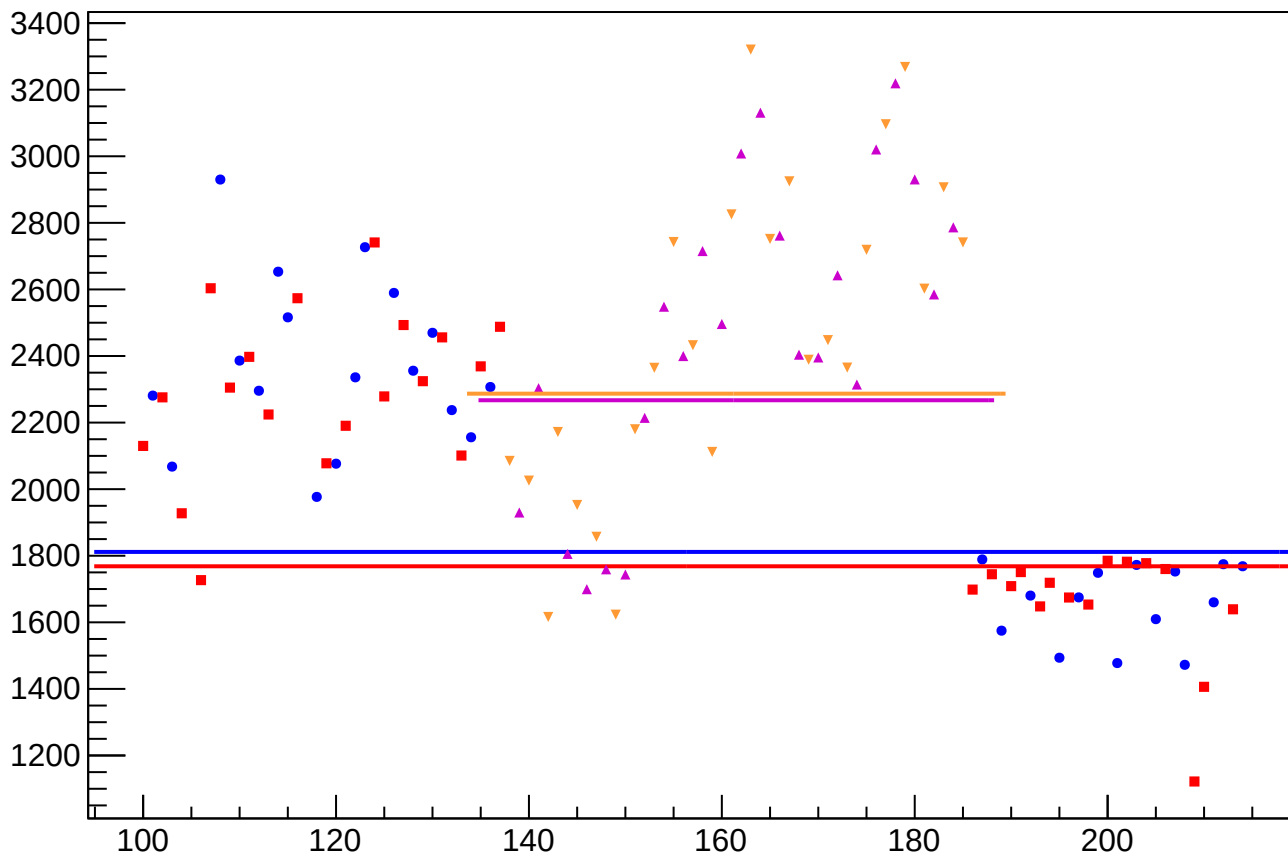
Right: 28.488 ± 0.313 $\chi^2/\text{NDF}: 29046.1/64$

In: 16.421 ± 0.351 $\chi^2/\text{NDF}: 31417.0/53$

Out: 1.180 ± 0.340 $\chi^2/\text{NDF}: 17056.3/58$

All: 8.549 ± 0.244 $\chi^2/\text{NDF}: 49446.2/112$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1811.505 $\pm$ 0.319

χ^2/NDF : 973946.0/30

Left: 2277.239 $\pm$ 0.276 χ^2/NDF : 2675141.7/47

Right: 1789.104 $\pm$ 0.222 χ^2/NDF : 2340640.1/64

Left Out: 2286.871 $\pm$ 0.385

χ^2/NDF : 1360490.8/24

In: 1991.724 $\pm$ 0.248 χ^2/NDF : 3092151.5/53

Right Out: 1768.332 $\pm$ 0.308

χ^2/NDF : 1357214.2/33

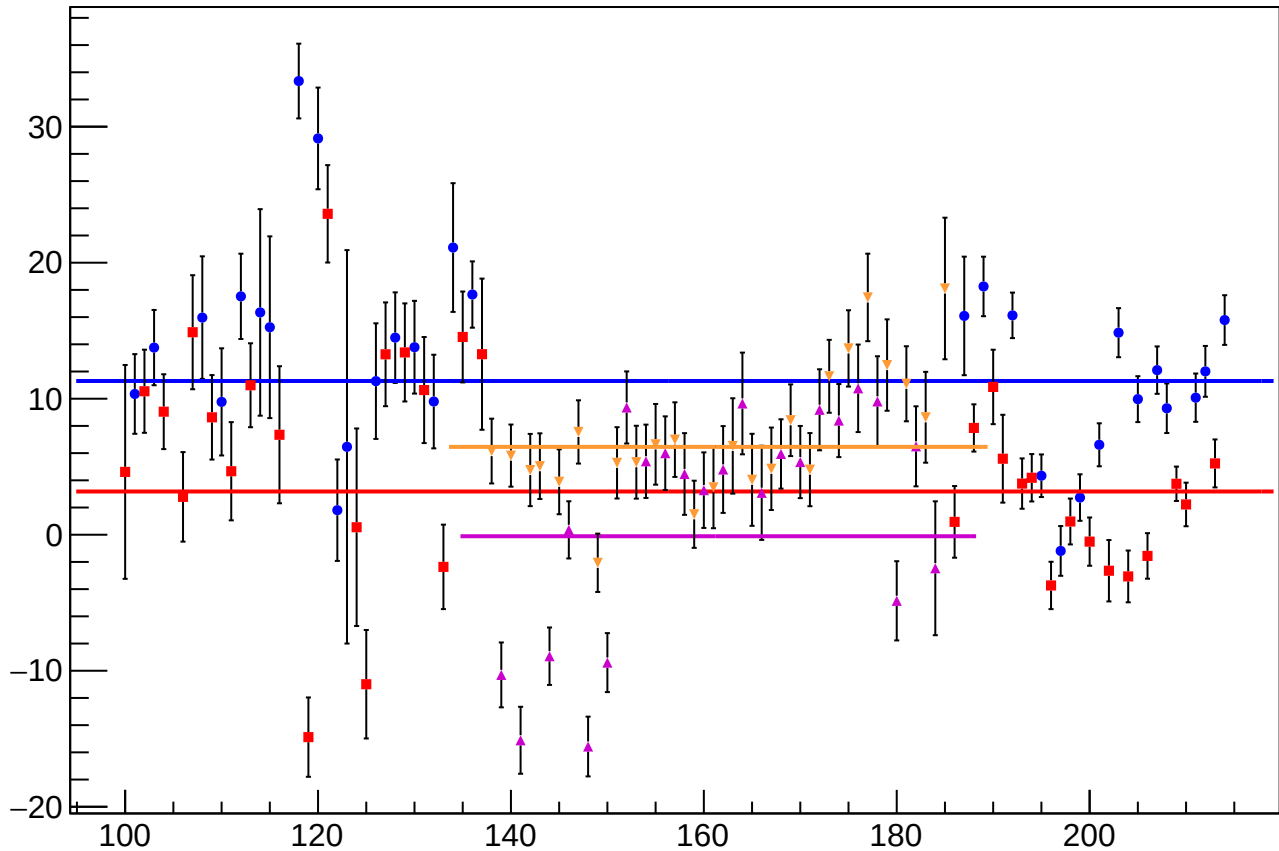
Out: 1970.478 $\pm$ 0.240 χ^2/NDF : 3825758.9/58

Left In: 2267.097 $\pm$ 0.395

χ^2/NDF : 1313364.4/22

All: 1980.750 $\pm$ 0.173 χ^2/NDF : 6921691.7/11

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.304 ± 0.424 $\chi^2/\text{NDF}: 245.9/30$

Left Out: 6.458 ± 0.548 $\chi^2/\text{NDF}: 58.7/24$

Right Out: 3.179 ± 0.410 $\chi^2/\text{NDF}: 214.9/33$

Left In: -0.110 ± 0.565 $\chi^2/\text{NDF}: 234.6/22$

Left: 3.278 ± 0.393 $\chi^2/\text{NDF}: 363.0/47$

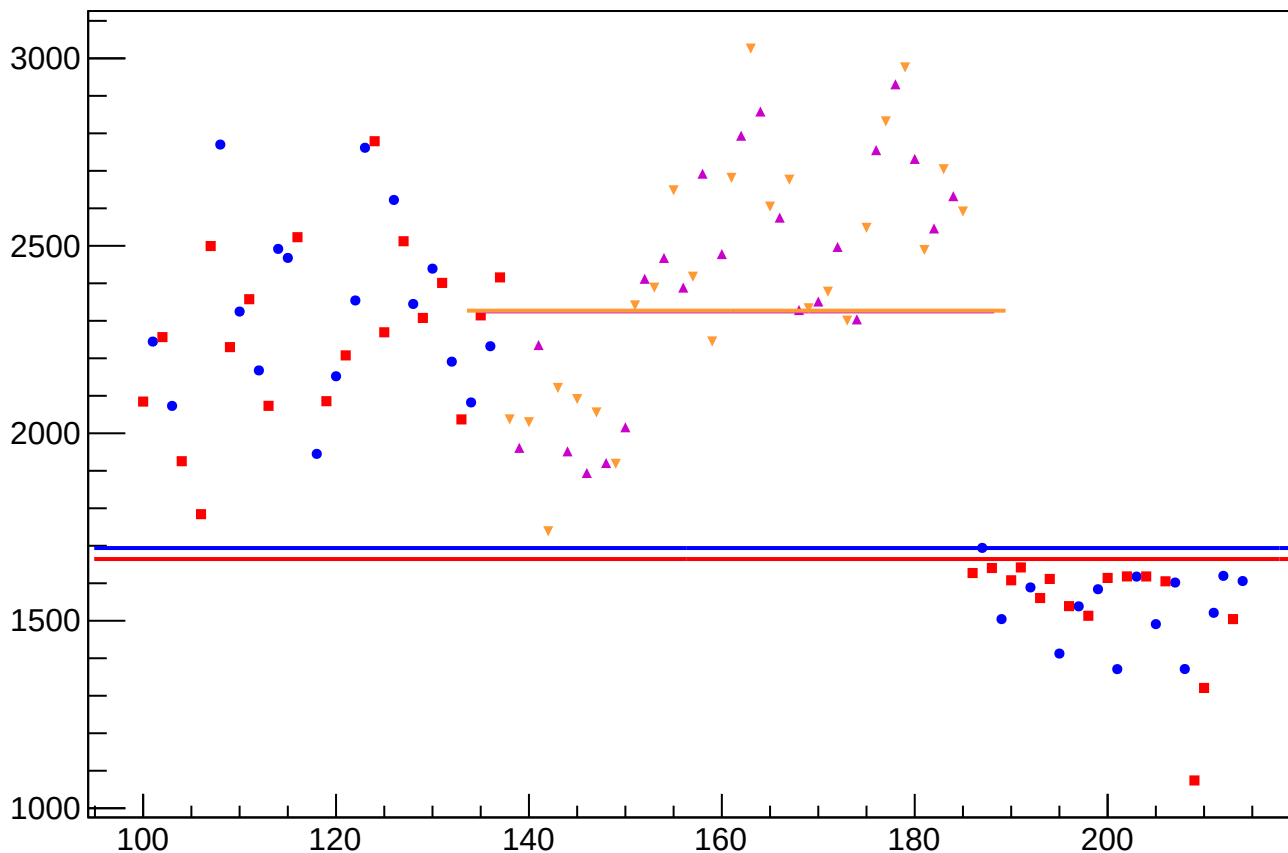
Right: 7.113 ± 0.295 $\chi^2/\text{NDF}: 650.5/64$

In: 7.198 ± 0.339 $\chi^2/\text{NDF}: 741.6/53$

Out: 4.359 ± 0.328 $\chi^2/\text{NDF}: 296.6/58$

All: 5.733 ± 0.236 $\chi^2/\text{NDF}: 1074.4/112$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1693.948 $\pm$ 0.300

χ^2/NDF : 1230099.6/30

Left Out: 2327.044 $\pm$ 0.387

χ^2/NDF : 646706.7/24

Right Out: 1664.642 $\pm$ 0.290

χ^2/NDF : 1557281.2/33

Left In: 2325.175 $\pm$ 0.400

χ^2/NDF : 610729.2/22

Left: 2326.139 $\pm$ 0.278

χ^2/NDF : 1257447.2/47

Right: 1678.830 $\pm$ 0.208

χ^2/NDF : 2792318.5/64

In: 1921.021 $\pm$ 0.240

χ^2/NDF : 3438273.6/53

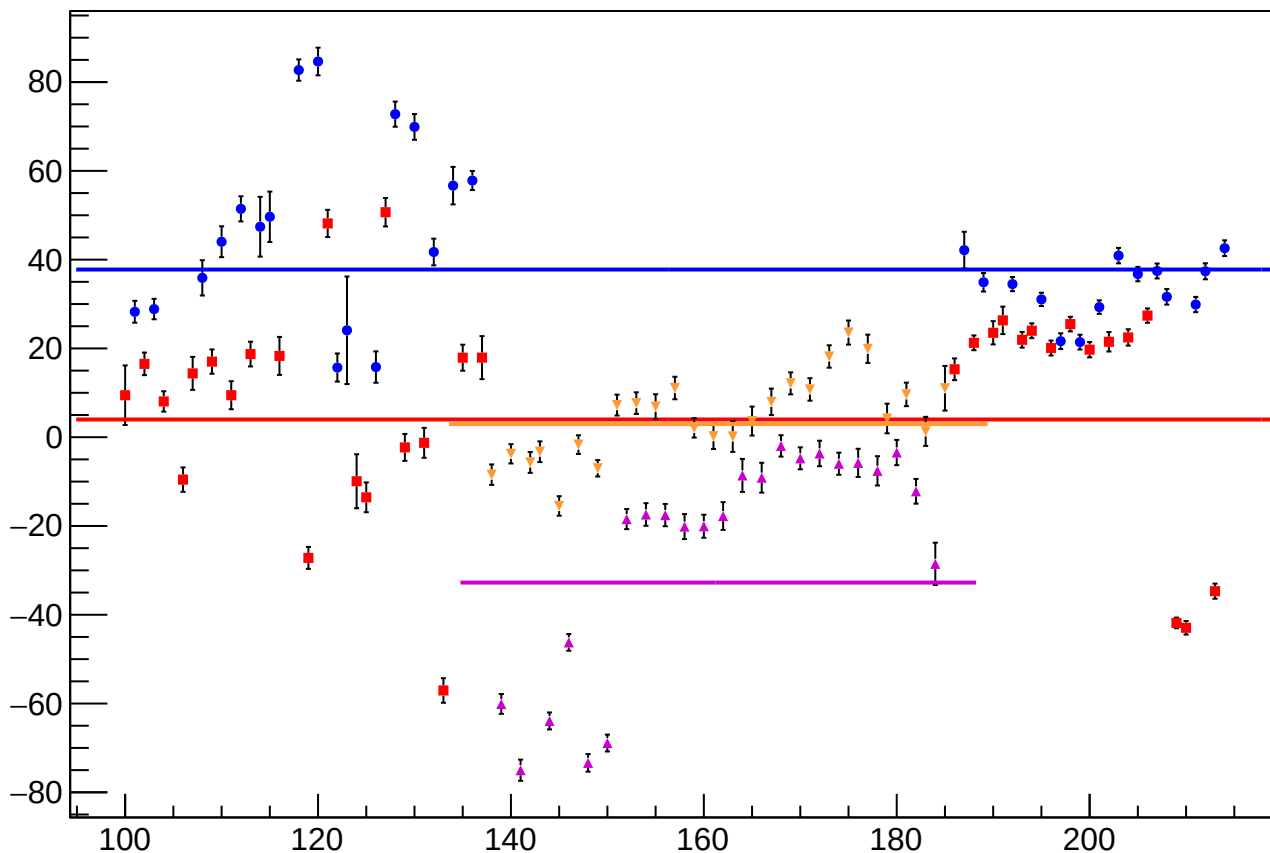
Out: 1902.907 $\pm$ 0.232

χ^2/NDF : 4078098.6/58

All: 1911.677 $\pm$ 0.167

χ^2/NDF : 7519318.3/11

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 37.773+/-0.397 χ^2/NDF : 1392.8/30

Left Out: 2.952+/-0.512 χ^2/NDF :337.8/24

Right Out: 3.992+/-0.383 χ^2/NDF : 5376.2/33

Left In: -32.745+/-0.526 χ^2/NDF :2632.5/22

Left: -14.409+/-0.367 χ^2/NDF : 5335.1/47

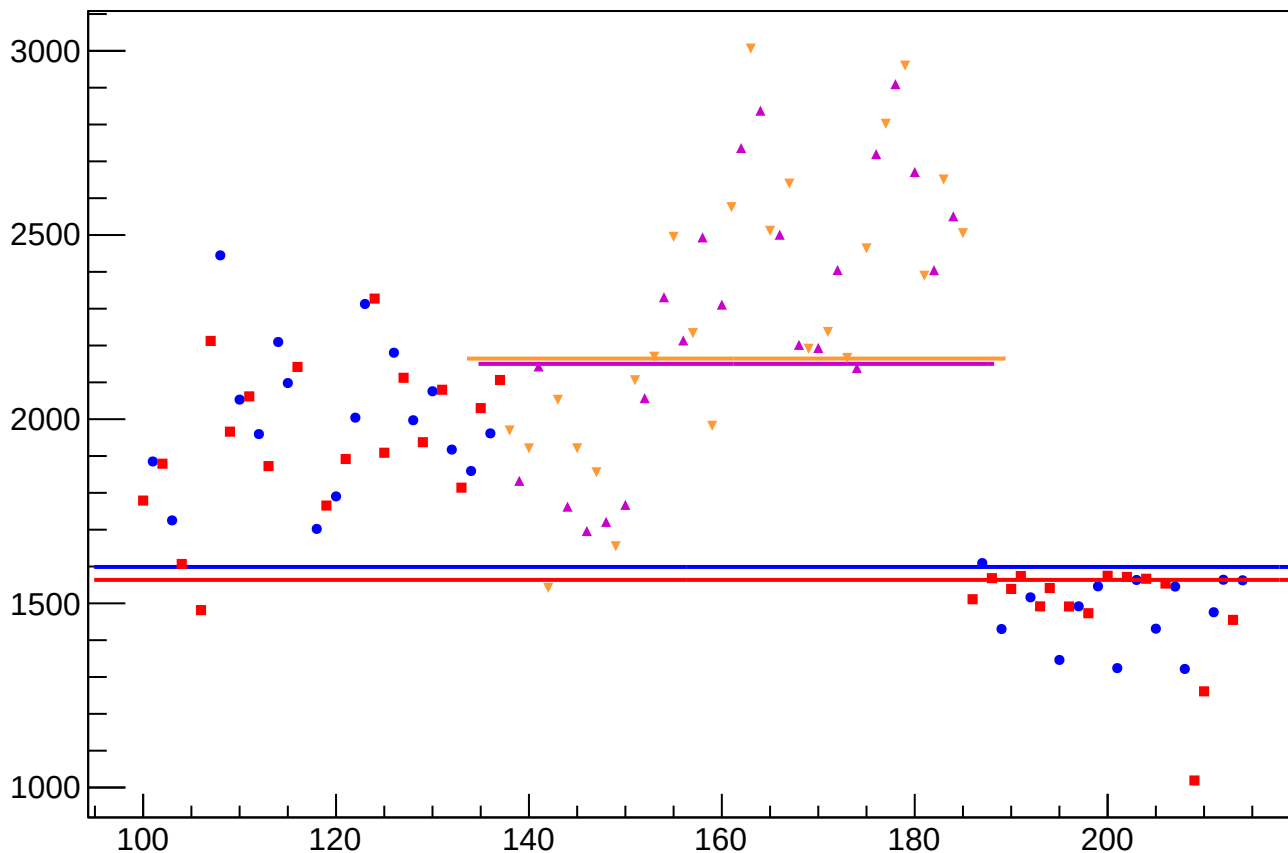
Right: 20.274+/-0.276 χ^2/NDF : 10520.9/64

In: 12.193+/-0.317 χ^2/NDF :15473.8/53

Out: 3.619+/-0.307 χ^2/NDF :5716.6/58

All: 7.765+/-0.220 χ^2/NDF : 21568.6/112

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1598.804 ± 0.281 $\chi^2/\text{NDF}: 742945.9/30$

Left Out: 2164.573 ± 0.362 $\chi^2/\text{NDF}: 965603.5/24$

Right Out: 1563.701 ± 0.271 $\chi^2/\text{NDF}: 1080834.6/33$

Left In: 2150.190 ± 0.372 $\chi^2/\text{NDF}: 911849.7/22$

Left: 2157.578 ± 0.259 $\chi^2/\text{NDF}: 1878220.9/47$

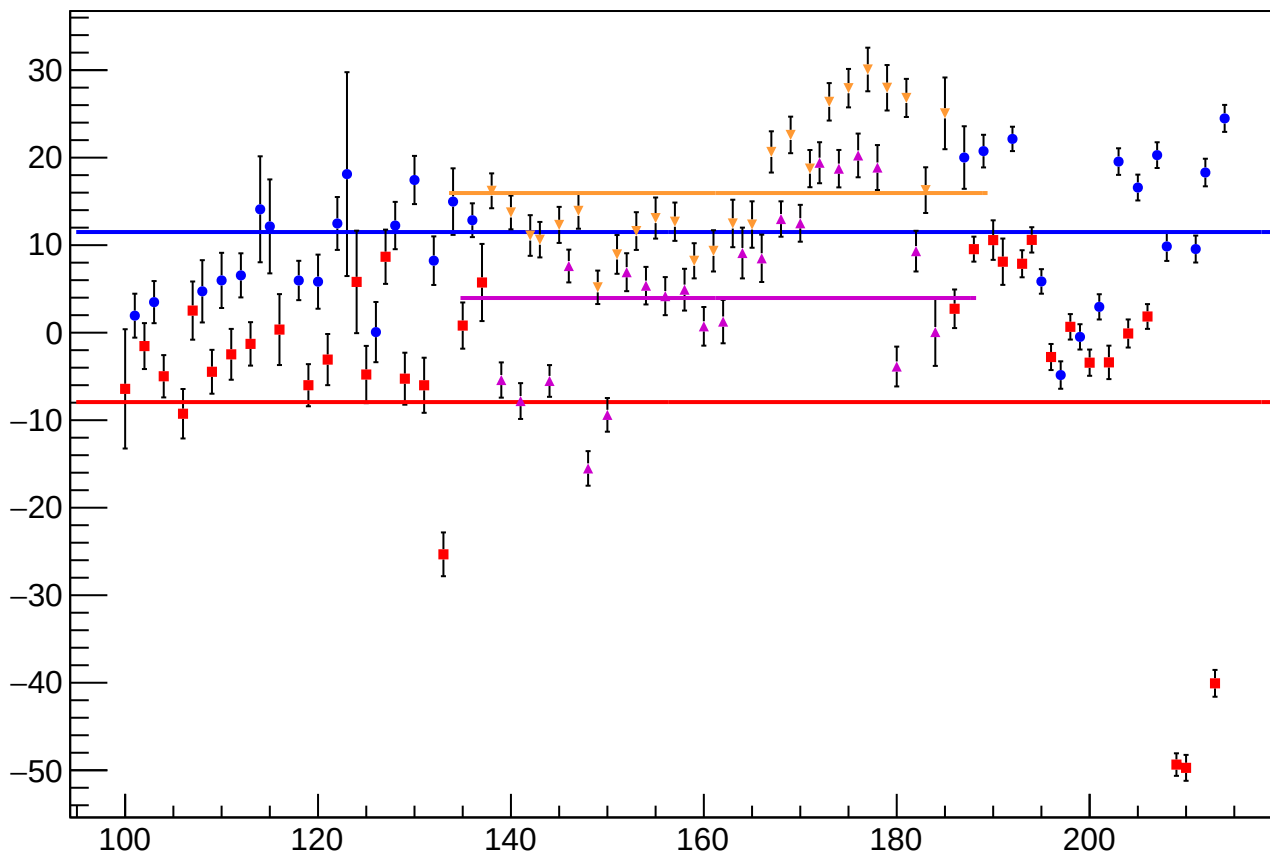
Right: 1580.620 ± 0.195 $\chi^2/\text{NDF}: 1831882.8/64$

In: 1798.815 ± 0.224 $\chi^2/\text{NDF}: 3054655.7/53$

Out: 1779.249 ± 0.217 $\chi^2/\text{NDF}: 3813392.7/58$

All: 1788.710 ± 0.156 $\chi^2/\text{NDF}: 6871986.6/111$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 11.500 $\pm$ 0.361 χ^2 /NDF: 549.5/30

Left Out: 15.956 $\pm$ 0.447 χ^2 /NDF:245.2/24

Right Out: -7.930 $\pm$ 0.352 χ^2 /NDF: 3091.7/33

Left In: 3.960 $\pm$ 0.463 χ^2 /NDF:464.9/22

Left: 10.161 $\pm$ 0.322 χ^2 /NDF: 1057.3/47

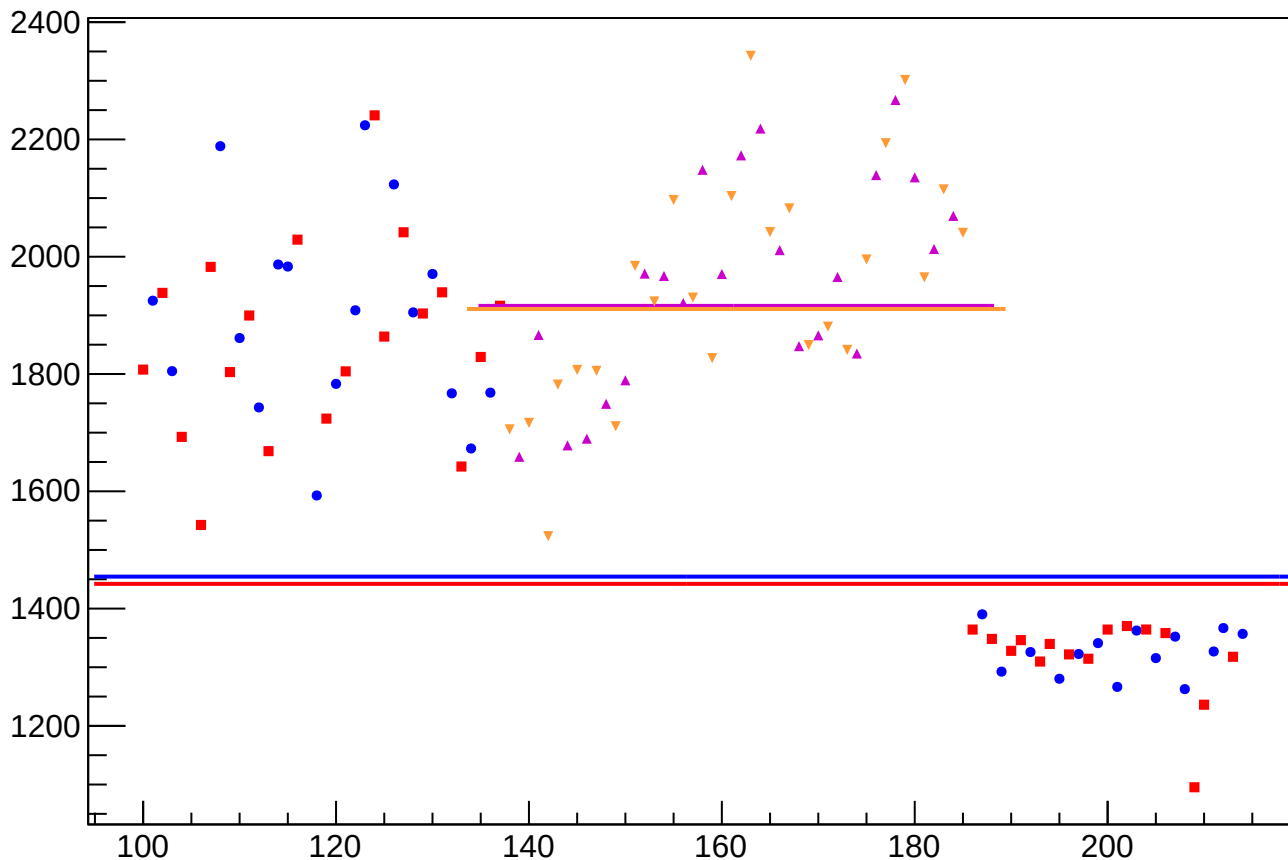
Right: 1.542 $\pm$ 0.252 χ^2 /NDF: 5128.7/64

In: 8.651 $\pm$ 0.284 χ^2 /NDF:1179.5/53

Out: 1.194 $\pm$ 0.277 χ^2 /NDF:5098.4/58

All: 4.817 $\pm$ 0.198 χ^2 /NDF: 6631.3/112

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1454.526 $\pm$ 0.255 χ^2 /NDF: 875866.4/30

Left Out: 1910.859 $\pm$ 0.316 χ^2 /NDF:328970.6/24

Right Out: 1442.173 $\pm$ 0.249 χ^2 /NDF: 973059.8/33

Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF:274285.3/22

Left: 1913.419 $\pm$ 0.227 χ^2 /NDF: 603391.5/47

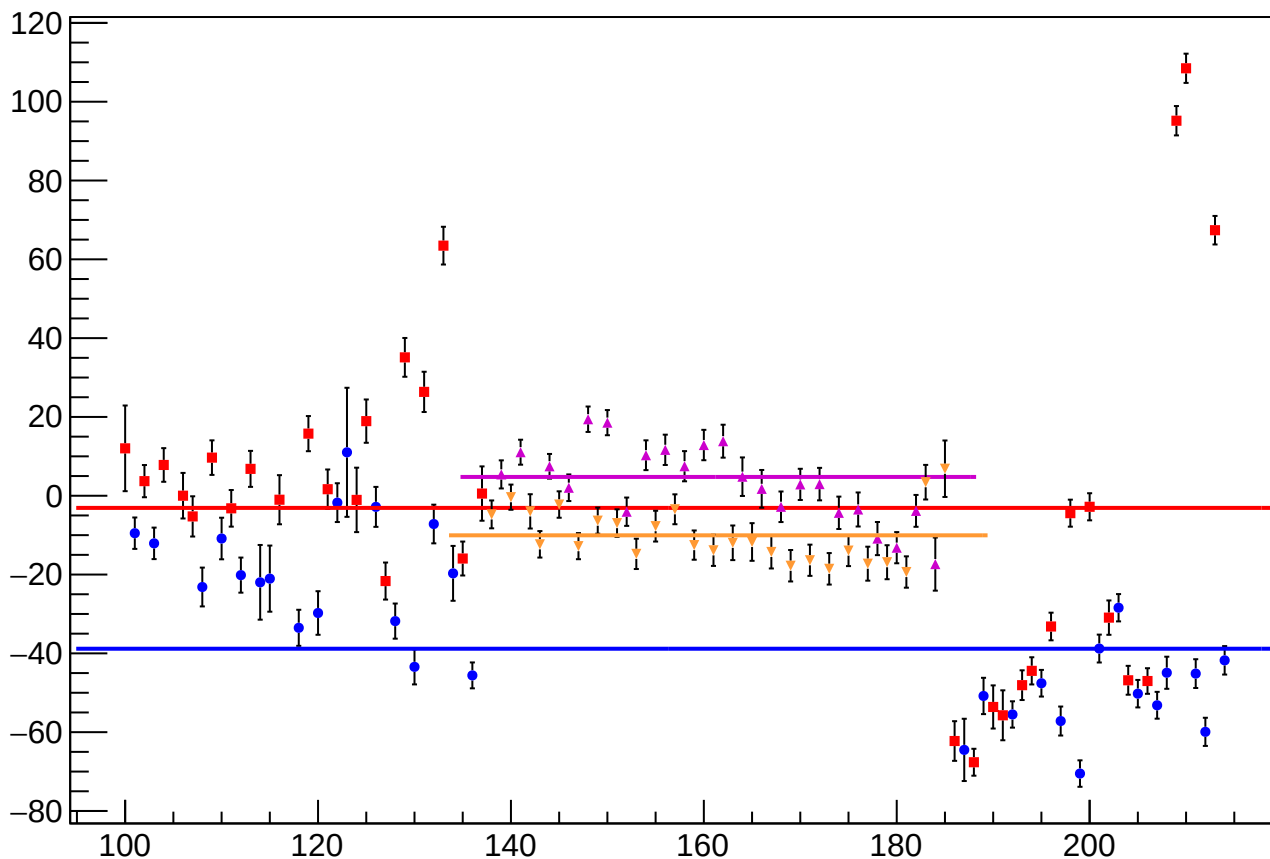
Right: 1448.195 $\pm$ 0.178 χ^2 /NDF: 1850128.6/64

In: 1628.936 $\pm$ 0.201 χ^2 /NDF:2388113.8/53

Out: 1621.207 $\pm$ 0.196 χ^2 /NDF:2658417.7/58

All: 1624.962 $\pm$ 0.140 χ^2 /NDF: 5047290.6/111

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.825 ± 0.762 χ^2/NDF : 580.8/30

Left Out: -10.042 ± 0.776 χ^2/NDF : 67.1/24

Right Out: -3.083 ± 0.750 χ^2/NDF : 3726.8/33

Left In: 4.774 ± 0.800 χ^2/NDF : 128.5/22

Left: -2.861 ± 0.557 χ^2/NDF : 372.2/47

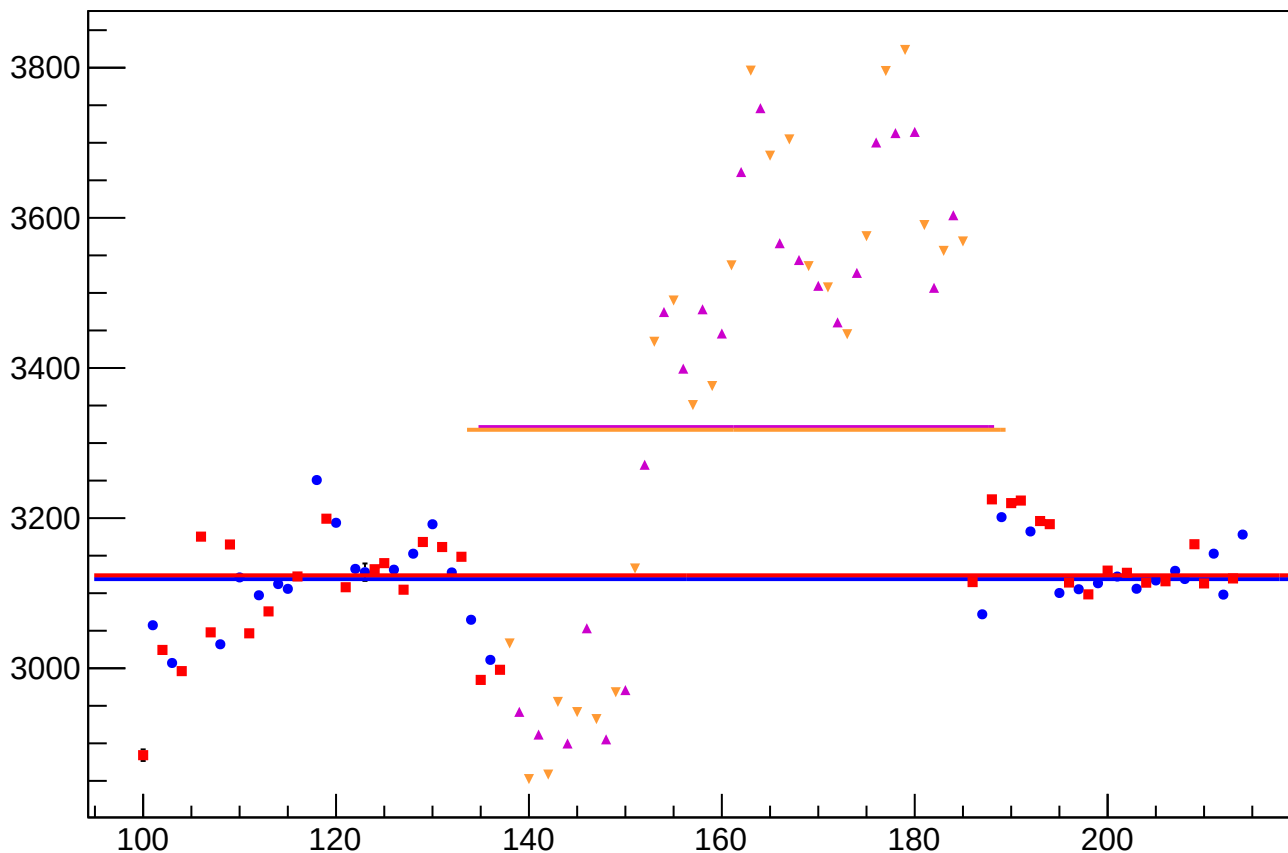
Right: -20.677 ± 0.535 χ^2/NDF : 5425.1/64

In: -18.102 ± 0.552 χ^2/NDF : 2265.9/53

Out: -6.443 ± 0.539 χ^2/NDF : 3835.5/58

All: -12.140 ± 0.386 χ^2/NDF : 6329.6/112

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3118.783 $\pm$ 0.539 χ^2 /NDF: 10052.5/30

Left Out: 3317.699 $\pm$ 0.549 χ^2 /NDF:336877.2/24

Right Out: 3123.817 $\pm$ 0.530 χ^2 /NDF: 14038.2/33

Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF:284334.2/22

Left: 3319.432 $\pm$ 0.394 χ^2 /NDF: 621232.0/47

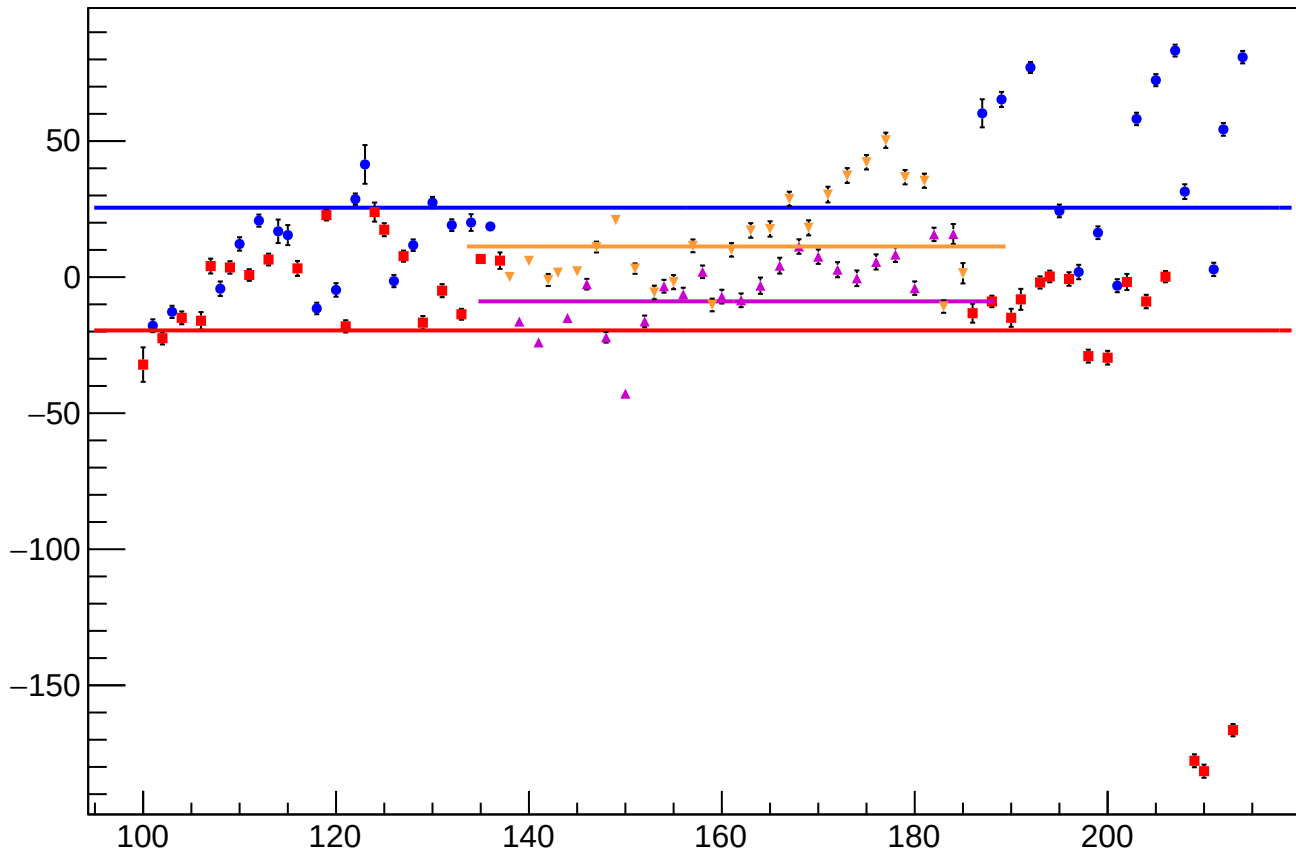
Right: 3121.339 $\pm$ 0.378 χ^2 /NDF: 24135.0/64

In: 3215.029 $\pm$ 0.390 χ^2 /NDF:361538.5/53

Out: 3217.434 $\pm$ 0.381 χ^2 /NDF:415423.0/58

All: 3216.259 $\pm$ 0.273 χ^2 /NDF: 776980.9/112

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 25.515 ± 0.424 χ^2/NDF : 4809.0/30

Left Out: 11.268 ± 0.454 χ^2/NDF : 1141.8/24

Right Out: -19.584 ± 0.417 χ^2/NDF : 15369.0/33

Left In: -8.905 ± 0.478 χ^2/NDF : 936.3/22

Left: 1.682 ± 0.329 χ^2/NDF : 3014.7/47

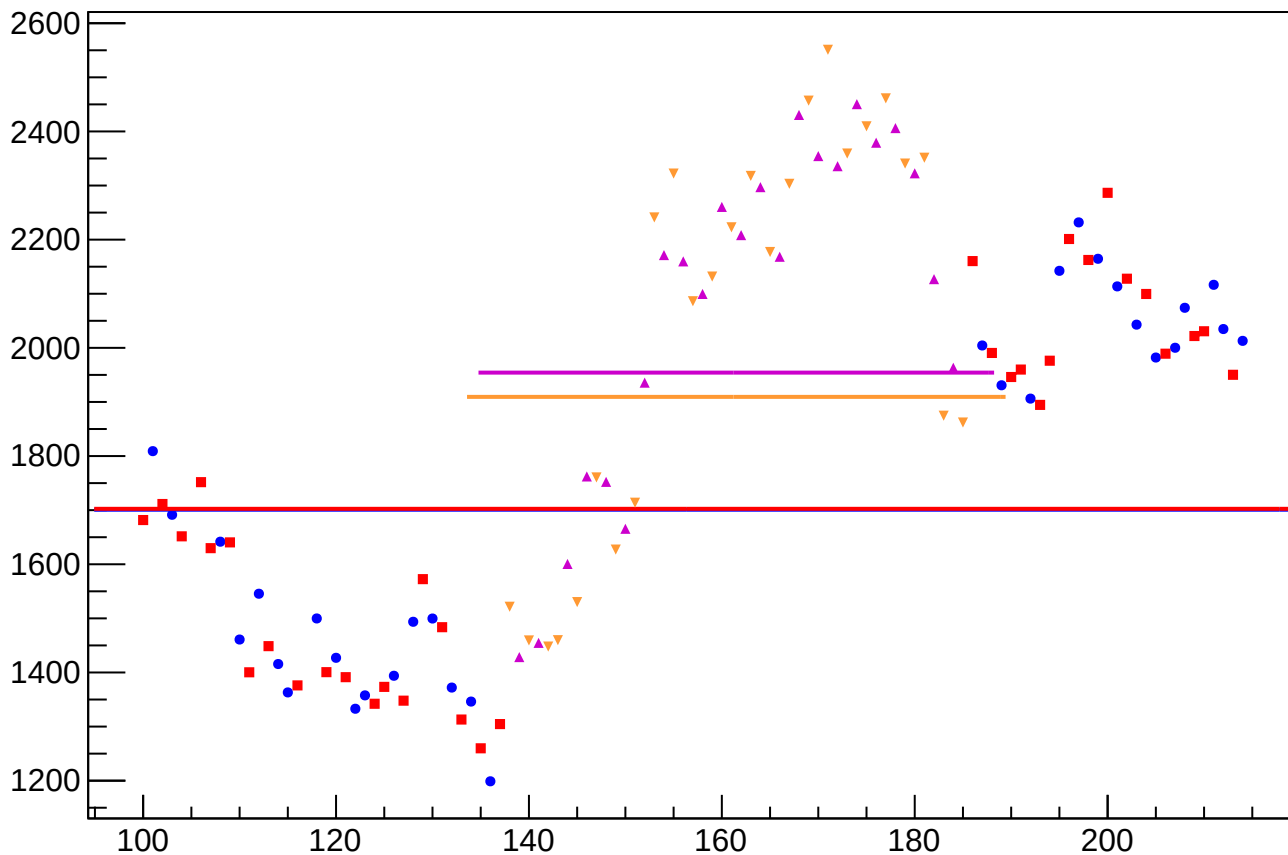
Right: 2.571 ± 0.297 χ^2/NDF : 25934.1/64

In: 10.342 ± 0.317 χ^2/NDF : 8650.5/53

Out: -5.492 ± 0.307 χ^2/NDF : 19015.5/58

All: 2.172 ± 0.221 χ^2/NDF : 28952.8/112

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1700.863 $\pm$ 0.300 χ^2 /NDF: 1226194.8/30

Left Out: 1909.387 $\pm$ 0.321 χ^2 /NDF:1398498.0/24

Right Out: 1702.492 $\pm$ 0.295 χ^2 /NDF: 1183216.8/33

Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

Left: 1930.697 $\pm$ 0.233 χ^2 /NDF: 2452584.2/47

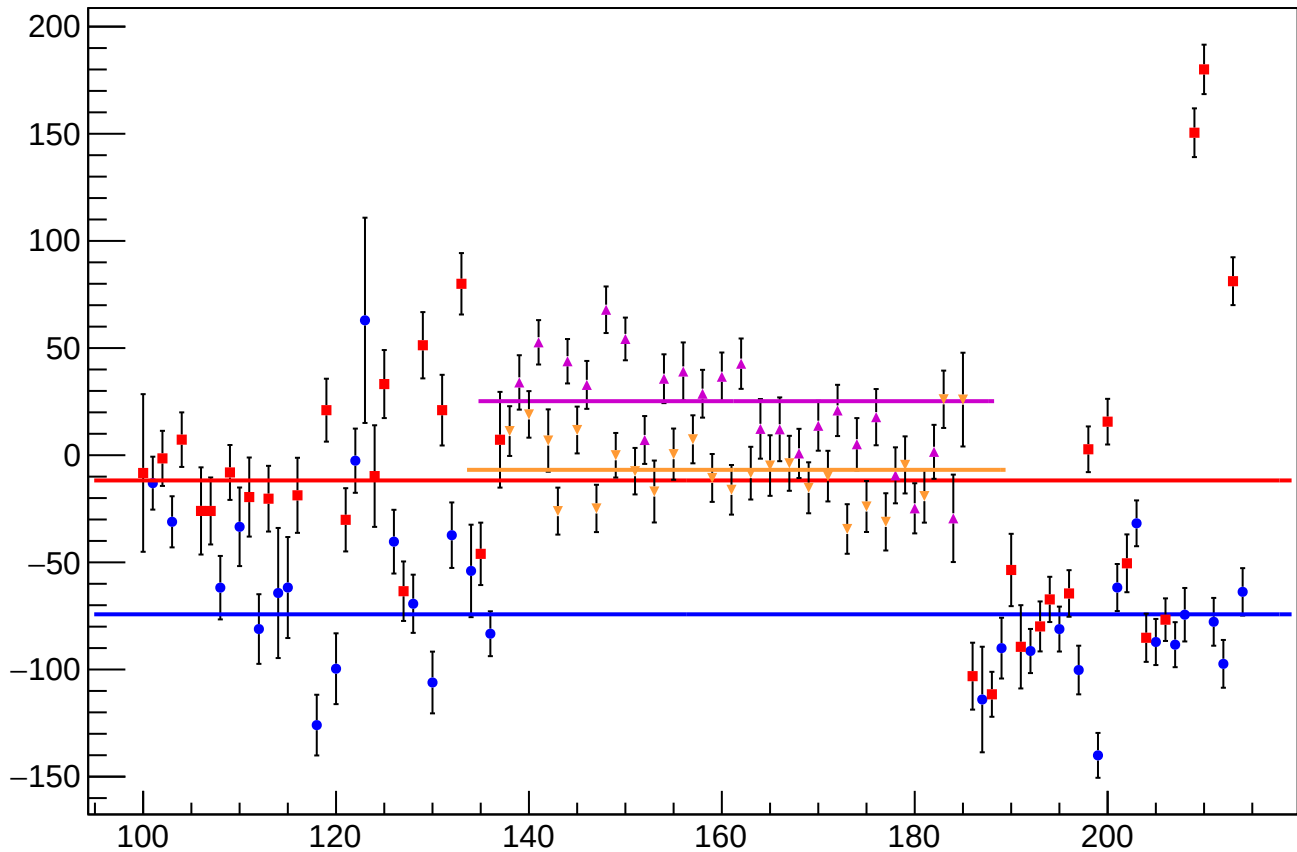
Right: 1701.692 $\pm$ 0.210 χ^2 /NDF: 2409426.6/64

In: 1812.558 $\pm$ 0.224 χ^2 /NDF:2585874.5/53

Out: 1796.995 $\pm$ 0.217 χ^2 /NDF:2806988.7/58

All: 1804.528 $\pm$ 0.156 χ^2 /NDF: 5395349.9/11

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -74.246 ± 2.363 χ^2/NDF : 185.8/30

Left Out: -6.825 ± 2.423 χ^2/NDF : 42.3/24

Right Out: -11.773 ± 2.330 χ^2/NDF : 984.9/33

Left In: 25.215 ± 2.487 χ^2/NDF : 89.3/22

Left: 8.777 ± 1.735 χ^2/NDF : 216.8/47

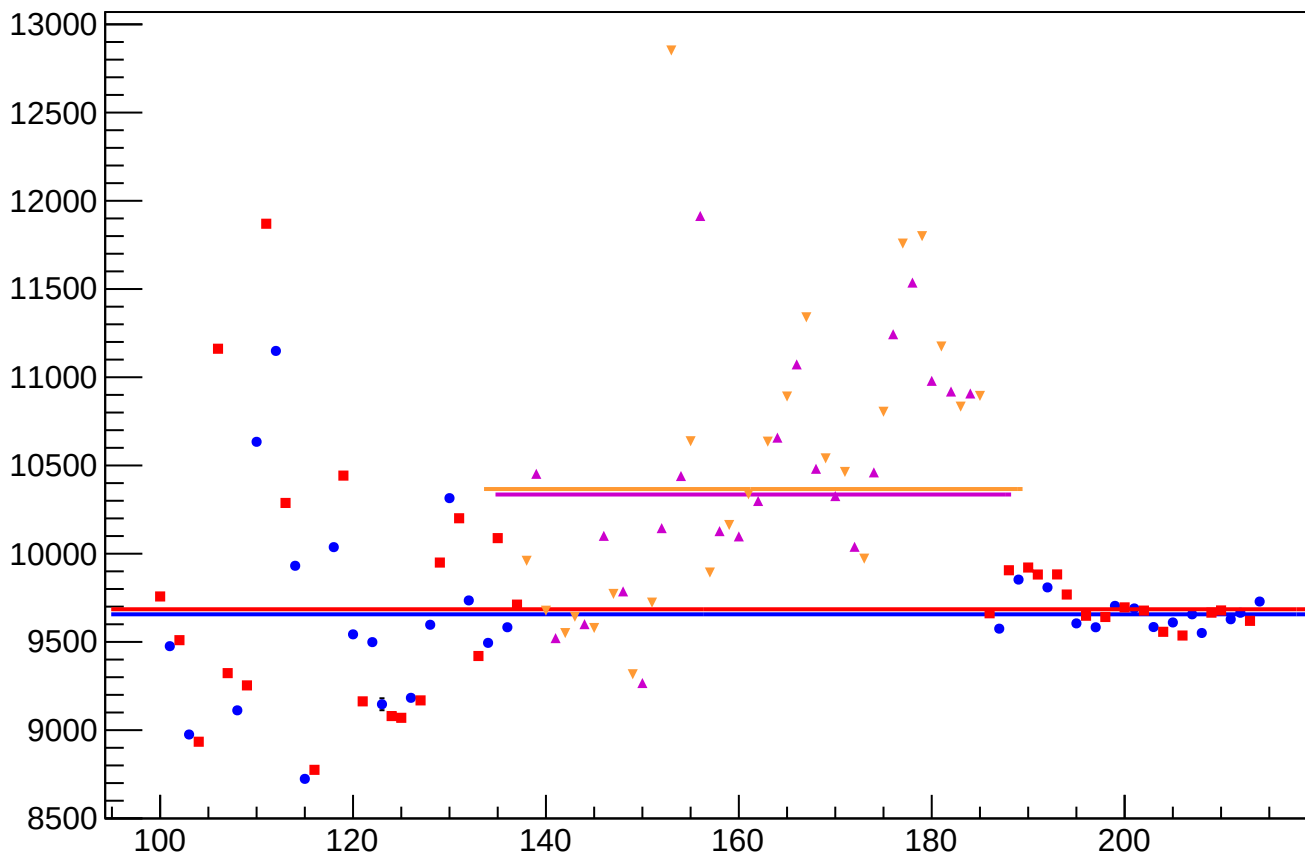
Right: -42.577 ± 1.659 χ^2/NDF : 1525.1/64

In: -27.054 ± 1.713 χ^2/NDF : 1115.8/53

Out: -9.395 ± 1.679 χ^2/NDF : 1029.4/58

All: -18.050 ± 1.199 χ^2/NDF : 2199.4/112

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9656.452 $\pm$ 1.671 χ^2 /NDF: 45418.9/30

Left Out: 10366.534 $\pm$ 1.713 χ^2 /NDF: 211402.8/24

Right Out: 9685.110 $\pm$ 1.648 χ^2 /NDF: 80423.2/33

Left In: 10335.399 $\pm$ 1.758 χ^2 /NDF: 127173.0/22

Left: 10351.373 $\pm$ 1.227 χ^2 /NDF: 338736.7/47

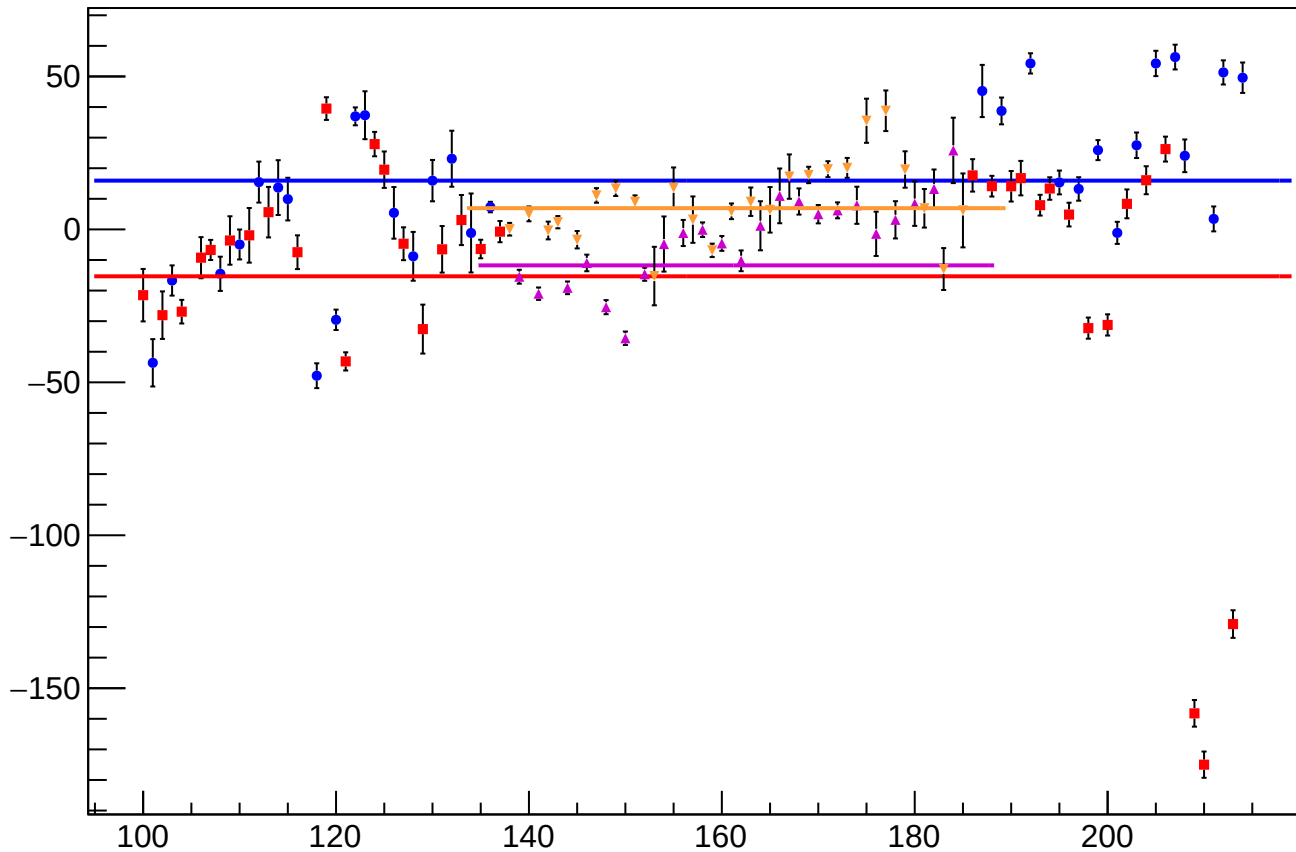
Right: 9670.979 $\pm$ 1.173 χ^2 /NDF: 125991.3/64

In: 9978.599 $\pm$ 1.211 χ^2 /NDF: 250949.3/53

Out: 10012.597 $\pm$ 1.188 χ^2 /NDF: 374018.6/58

All: 9995.933 $\pm$ 0.848 χ^2 /NDF: 625369.6/112

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 15.945 ± 0.763 $\chi^2/\text{NDF}: 1218.2/30$

Left Out: 6.939 ± 0.639 $\chi^2/\text{NDF}: 203.8/24$

Right Out: -15.335 ± 0.759 $\chi^2/\text{NDF}: 4166.7/33$

Left In: -11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

Left: -2.274 ± 0.455 $\chi^2/\text{NDF}: 1021.3/47$

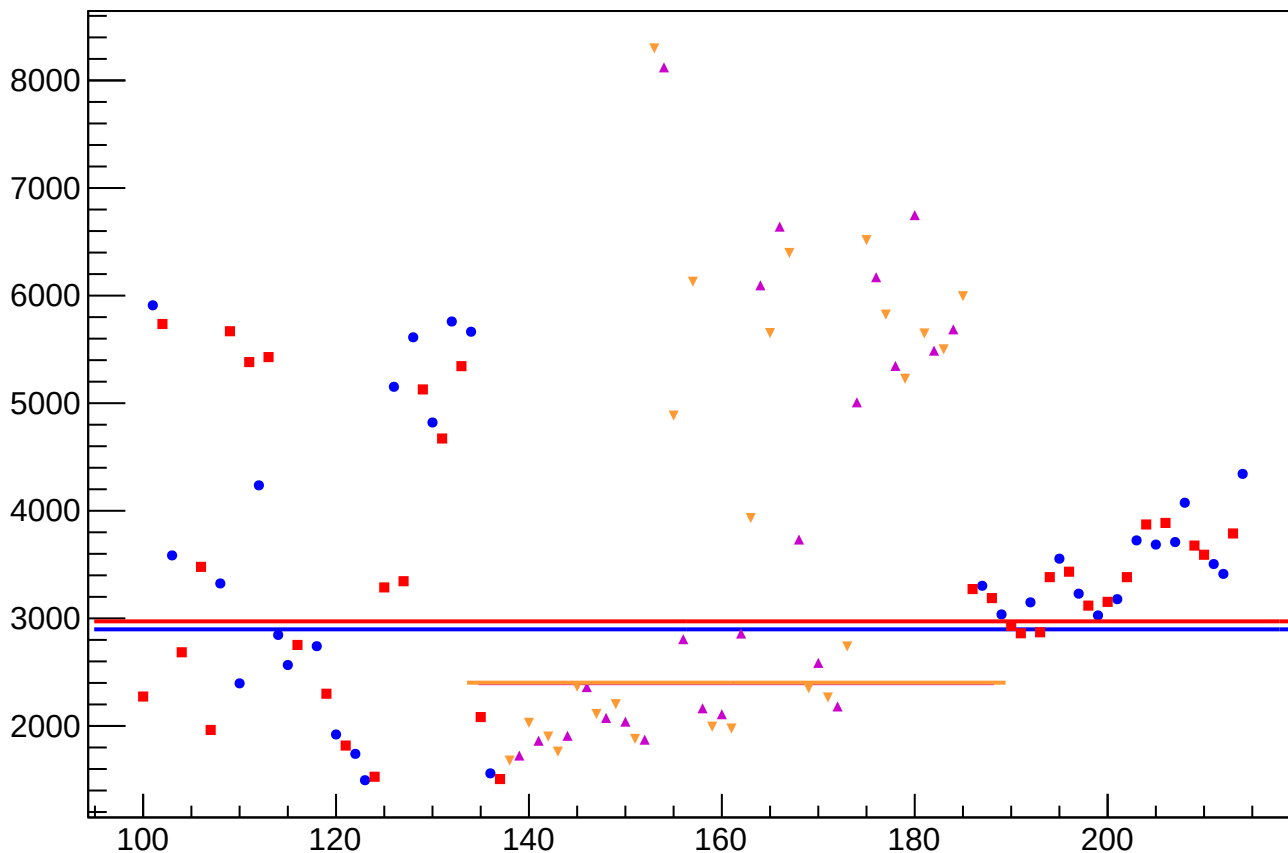
Right: 0.212 ± 0.538 $\chi^2/\text{NDF}: 6229.3/64$

In: -0.154 ± 0.494 $\chi^2/\text{NDF}: 2378.7/53$

Out: -2.297 ± 0.489 $\chi^2/\text{NDF}: 4874.8/58$

All: -1.238 ± 0.347 $\chi^2/\text{NDF}: 7263.0/112$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2898.039 ± 0.540 $\chi^2/\text{NDF}: 3725095.2/30$

Left Out: 2402.359 ± 0.452 $\chi^2/\text{NDF}: 6345982.8/24$

Right Out: 2972.378 ± 0.537 $\chi^2/\text{NDF}: 3052955.4/33$

Left In: 2397.701 ± 0.458 $\chi^2/\text{NDF}: 5398920.1/22$

Left: 2400.065 ± 0.322 $\chi^2/\text{NDF}: 11744955.3/47$

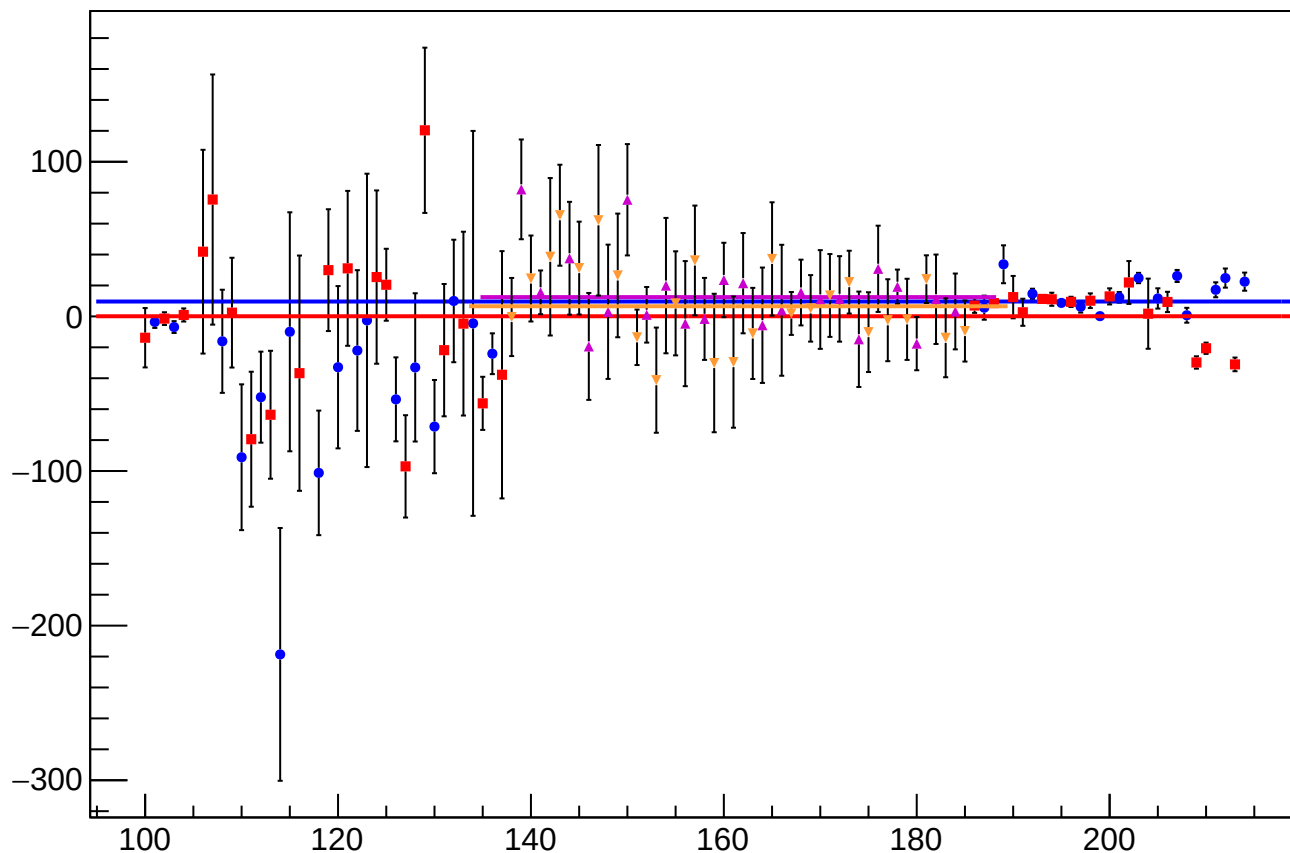
Right: 2935.428 ± 0.381 $\chi^2/\text{NDF}: 6787588.4/64$

In: 2607.358 ± 0.349 $\chi^2/\text{NDF}: 9623106.9/53$

Out: 2638.716 ± 0.346 $\chi^2/\text{NDF}: 10059366.9/58$

All: 2623.212 ± 0.246 $\chi^2/\text{NDF}: 19686545.4/112$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 9.622 $\pm$ 1.031 χ^2 /NDF: 149.0/30

Left Out: 6.560 $\pm$ 5.077 χ^2 /NDF:16.8/24

Right Out: 0.090 $\pm$ 1.076 χ^2 /NDF: 227.5/33

Left In: 12.469 $\pm$ 5.025 χ^2 /NDF:15.4/22

Left: 9.545 $\pm$ 3.572 χ^2 /NDF: 32.8/47

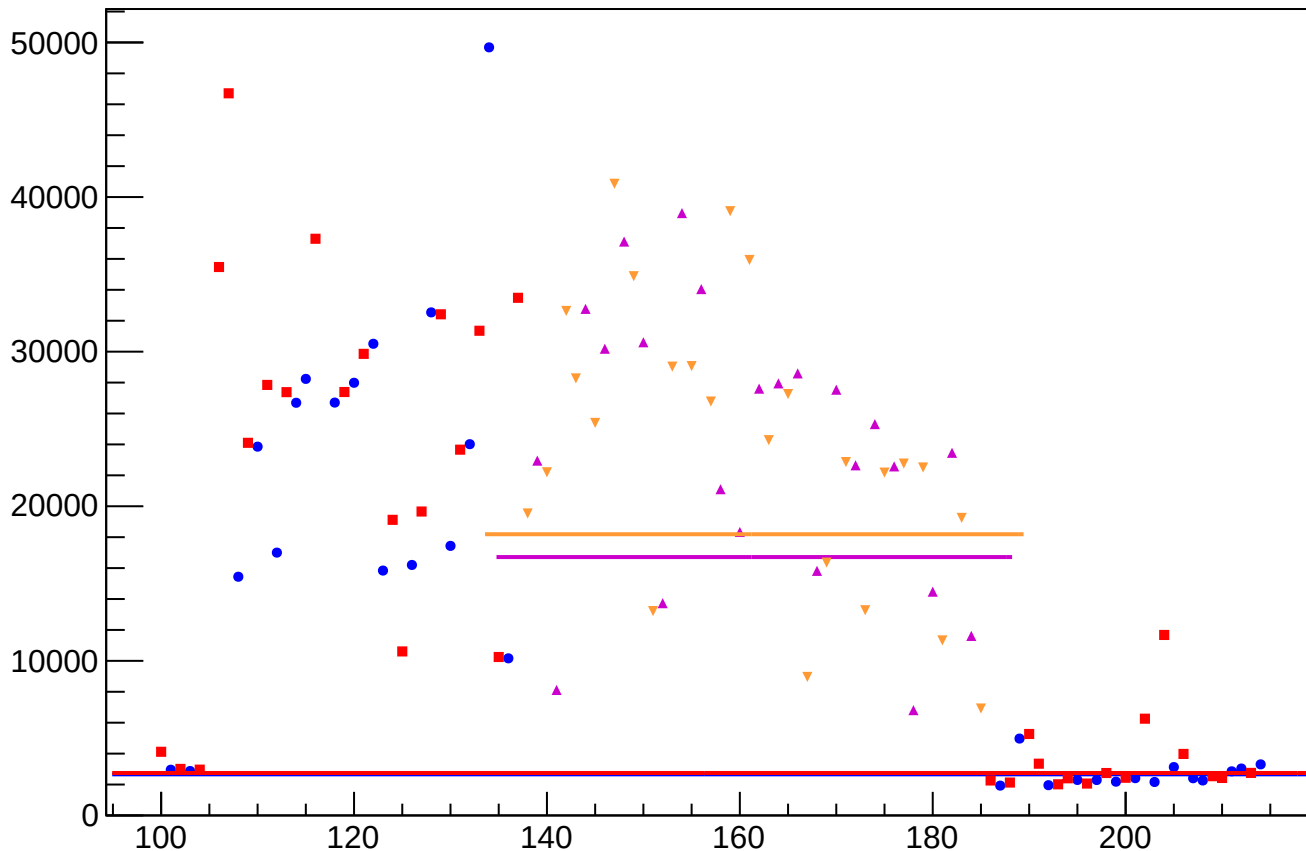
Right: 5.059 $\pm$ 0.744 χ^2 /NDF: 417.4/64

In: 9.737 $\pm$ 1.010 χ^2 /NDF:164.7/53

Out: 0.368 $\pm$ 1.052 χ^2 /NDF:245.8/58

All: 5.245 $\pm$ 0.729 χ^2 /NDF: 451.8/112

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2659.686 $\pm$ 0.729 χ^2/NDF : 7035817.6/30

Left Out: 18190.387 $\pm$ 3.590 χ^2/NDF :5261328.5/24

Right Out: 2746.995 $\pm$ 0.761 χ^2/NDF : 9079684.0/33

Left In: 16713.653 $\pm$ 3.553 χ^2/NDF :6194178.8/22

Left: 17444.397 $\pm$ 2.526 χ^2/NDF : 11540970.2/47

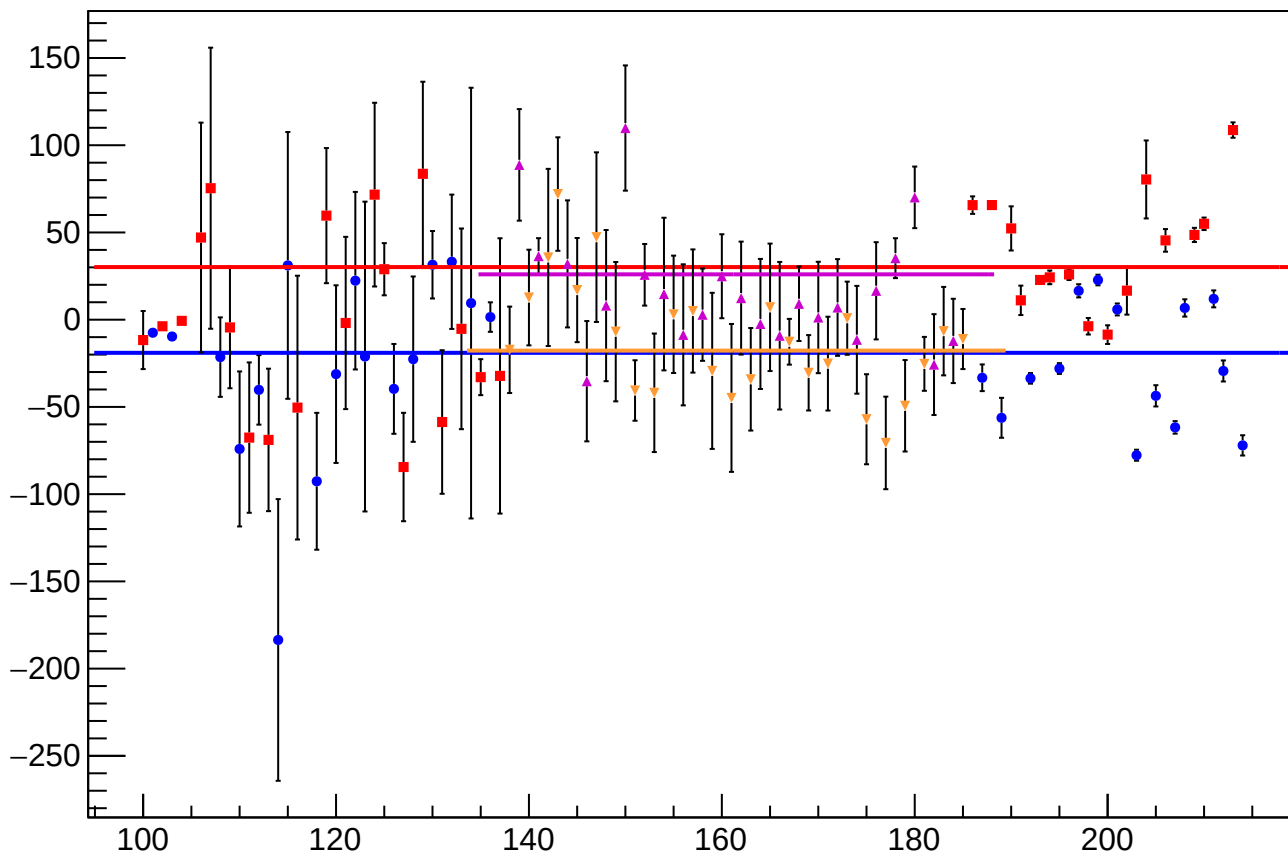
Right: 2701.484 $\pm$ 0.526 χ^2/NDF : 16122368.4/64

In: 3227.312 $\pm$ 0.714 χ^2/NDF :28240763.0/53

Out: 3410.473 $\pm$ 0.744 χ^2/NDF :32048493.4/58

All: 3315.121 $\pm$ 0.515 χ^2/NDF : 60320793.2/100

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -18.991 ± 0.927 $\chi^2/\text{NDF}: 1090.6/30$

Left Out: -17.717 ± 4.974 $\chi^2/\text{NDF}: 27.2/24$

Right Out: 30.157 ± 0.970 $\chi^2/\text{NDF}: 1083.7/33$

Left In: 25.991 ± 4.789 $\chi^2/\text{NDF}: 32.6/22$

Left: 4.967 ± 3.450 $\chi^2/\text{NDF}: 99.8/47$

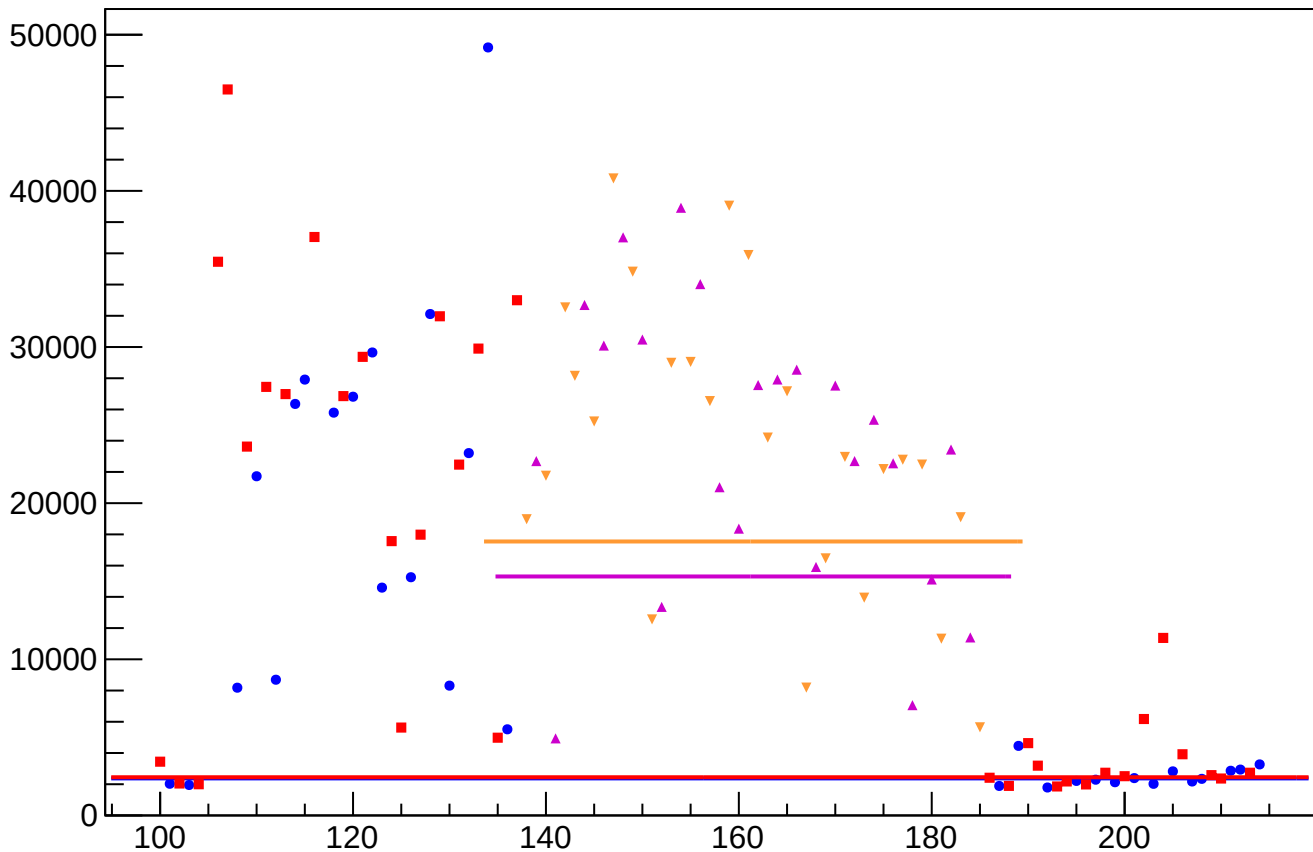
Right: 4.473 ± 0.670 $\chi^2/\text{NDF}: 3516.4/64$

In: -17.367 ± 0.910 $\chi^2/\text{NDF}: 1208.3/53$

Out: 28.404 ± 0.952 $\chi^2/\text{NDF}: 1200.1/58$

All: 4.491 ± 0.658 $\chi^2/\text{NDF}: 3616.2/112$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2373.500 ± 0.655

$\chi^2/\text{NDF}: 5905122.1/30$

Left: 16383.216 ± 2.439 $\chi^2/\text{NDF}: 13834445.4/47$

Right: 2408.149 ± 0.474 $\chi^2/\text{NDF}: 14670691.8/64$

Left Out: 17546.173 ± 3.517

$\chi^2/\text{NDF}: 5902620.4/24$

In: 2840.543 ± 0.644 $\chi^2/\text{NDF}: 27683714.1/53$

Right Out: 2446.077 ± 0.686

$\chi^2/\text{NDF}: 8759716.6/33$

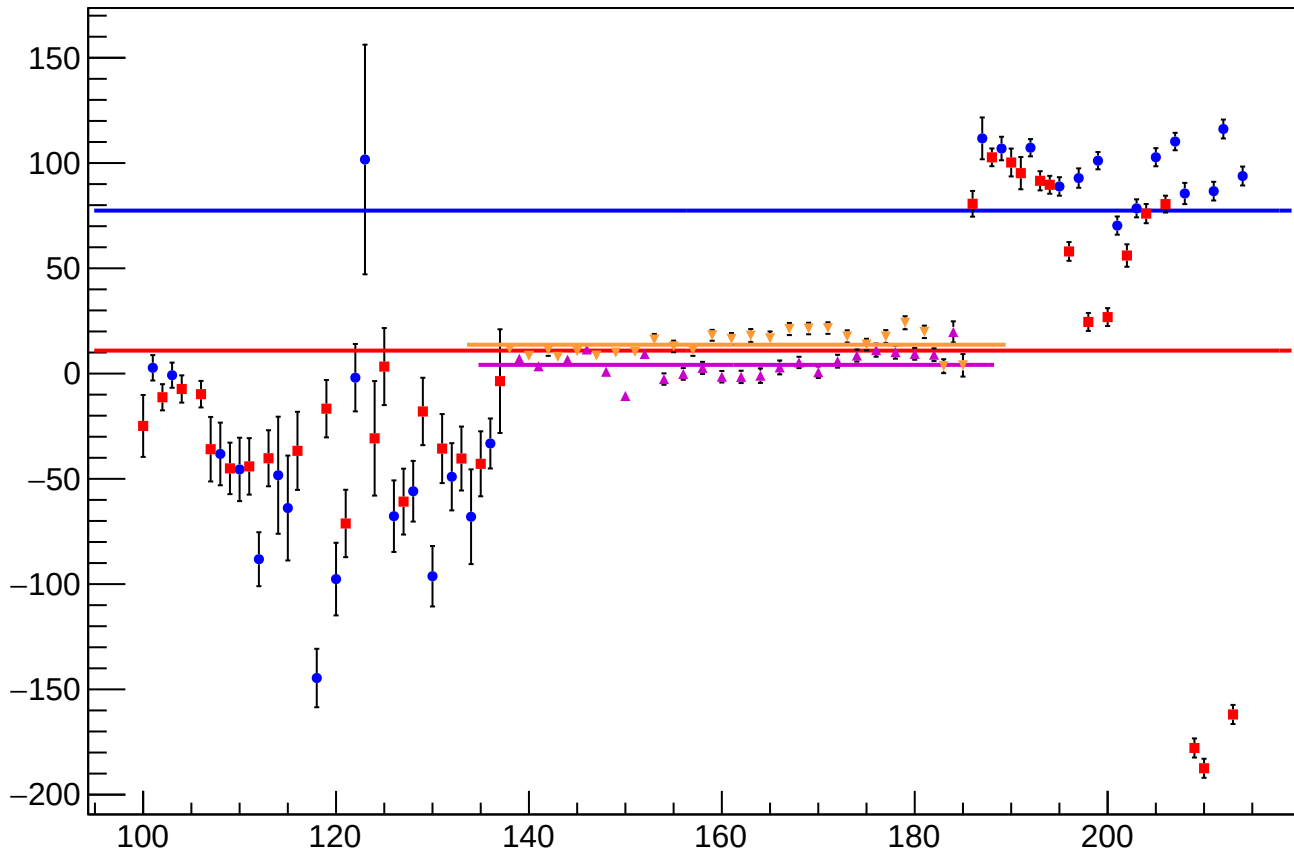
Out: 2999.079 ± 0.673 $\chi^2/\text{NDF}: 32417904.9/58$

Left In: 15305.311 ± 3.386

$\chi^2/\text{NDF}: 7721177.0/22$

All: 2916.251 ± 0.465 $\chi^2/\text{NDF}: 60130601.1/13$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 77.412 $\pm$ 1.131 χ^2/NDF : 1890.0/30

Left Out: 13.710 $\pm$ 0.535 χ^2/NDF :89.9/24

Right Out: 10.916 $\pm$ 1.105 χ^2/NDF : 7572.6/33

Left In: 4.141 $\pm$ 0.555 χ^2/NDF :111.7/22

Left: 9.097 $\pm$ 0.385 χ^2/NDF : 355.6/47

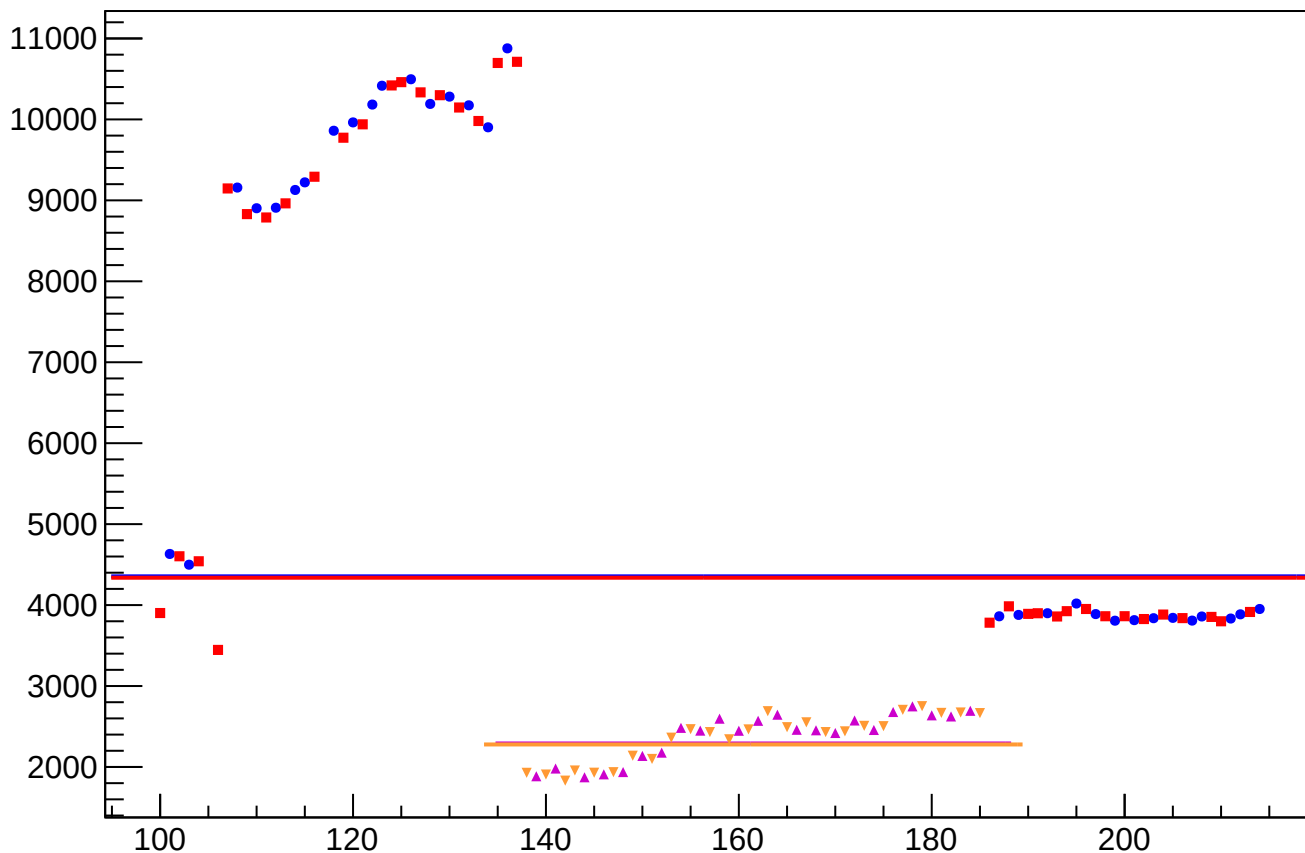
Right: 43.407 $\pm$ 0.790 χ^2/NDF : 11231.7/64

In: 18.362 $\pm$ 0.498 χ^2/NDF :5386.9/53

Out: 13.179 $\pm$ 0.482 χ^2/NDF :7667.6/58

All: 15.684 $\pm$ 0.346 χ^2/NDF : 13110.5/112

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4355.080+/-0.799 χ^2/NDF : 3841414.8/30

Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24

Right Out: 4338.046+/-0.781 χ^2/NDF : 3867491.6/33

Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

Left: 2284.067+/-0.272 χ^2/NDF : 1197894.4/47

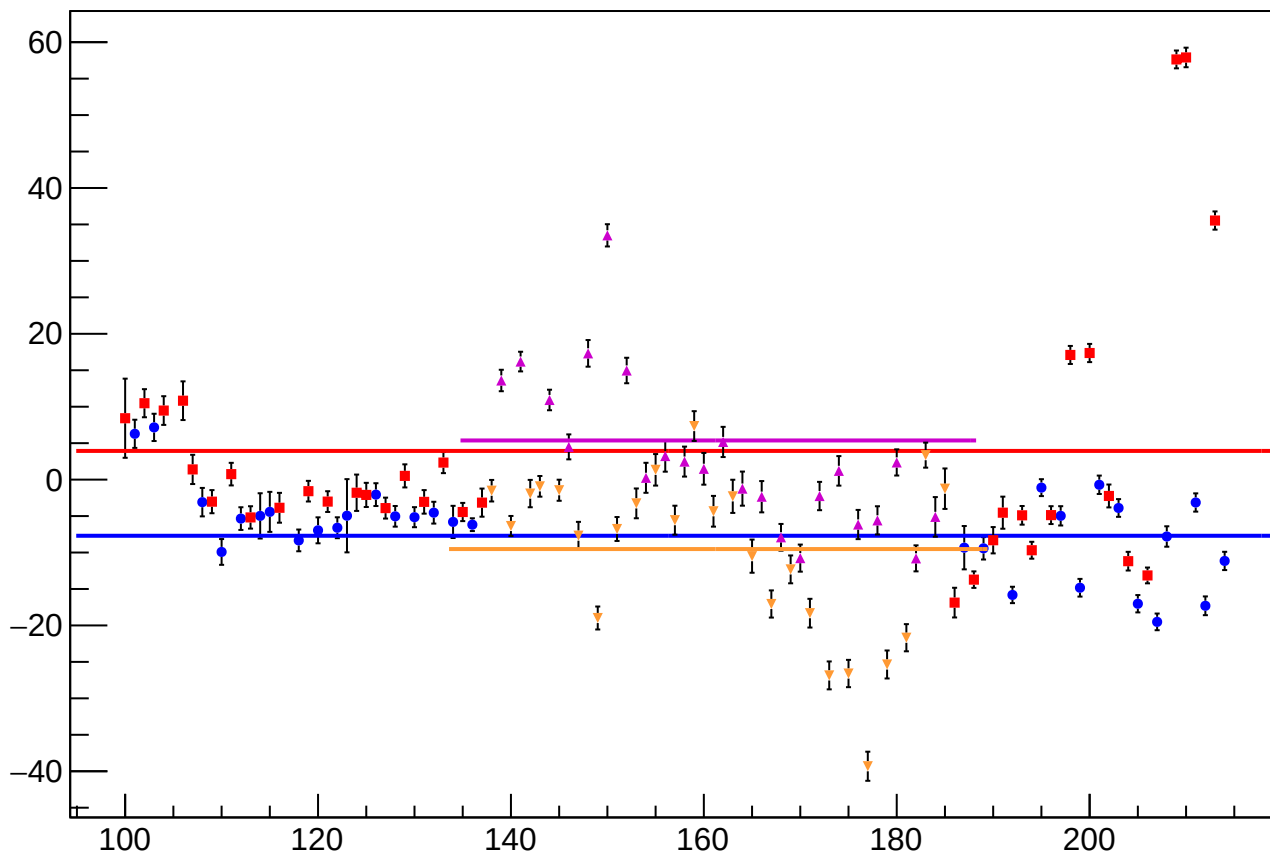
Right: 4346.369+/-0.559 χ^2/NDF : 7709138.6/64

In: 2691.177+/-0.352 χ^2/NDF : 9807352.6/53

Out: 2669.556+/-0.341 χ^2/NDF : 10103643.9/58

All: 2680.006+/-0.245 χ^2/NDF : 19912943.9/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -7.701 ± 0.259 $\chi^2/\text{NDF}: 567.3/30$

Left Out: -9.524 ± 0.365 $\chi^2/\text{NDF}: 884.1/24$

Right Out: 3.936 ± 0.257 $\chi^2/\text{NDF}: 5734.9/33$

Left In: 5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

Left: -2.437 ± 0.264 $\chi^2/\text{NDF}: 2547.3/47$

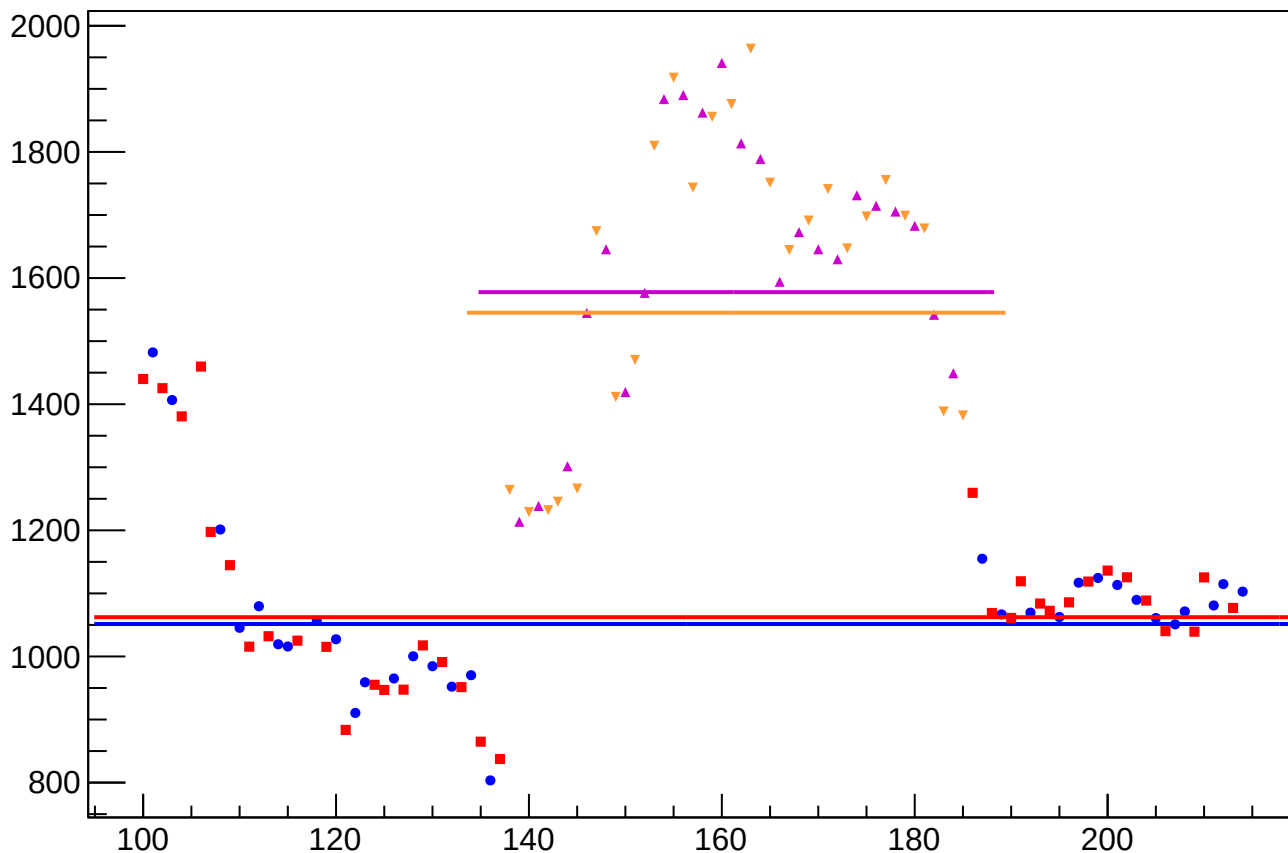
Right: -1.839 ± 0.182 $\chi^2/\text{NDF}: 7322.4/64$

In: -3.606 ± 0.214 $\chi^2/\text{NDF}: 2237.7/53$

Out: -0.521 ± 0.210 $\chi^2/\text{NDF}: 7529.8/58$

All: -2.032 ± 0.150 $\chi^2/\text{NDF}: 9873.2/112$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1051.459 $\pm$ 0.183 χ^2/NDF : 421671.1/30

Left Out: 1545.053 $\pm$ 0.258 χ^2/NDF : 842722.3/24

Right Out: 1062.247 $\pm$ 0.181 χ^2/NDF : 393148.0/33

Left In: 1577.685 $\pm$ 0.271 χ^2/NDF : 625406.2/22

Left: 1560.578 $\pm$ 0.187 χ^2/NDF : 1475743.3/47

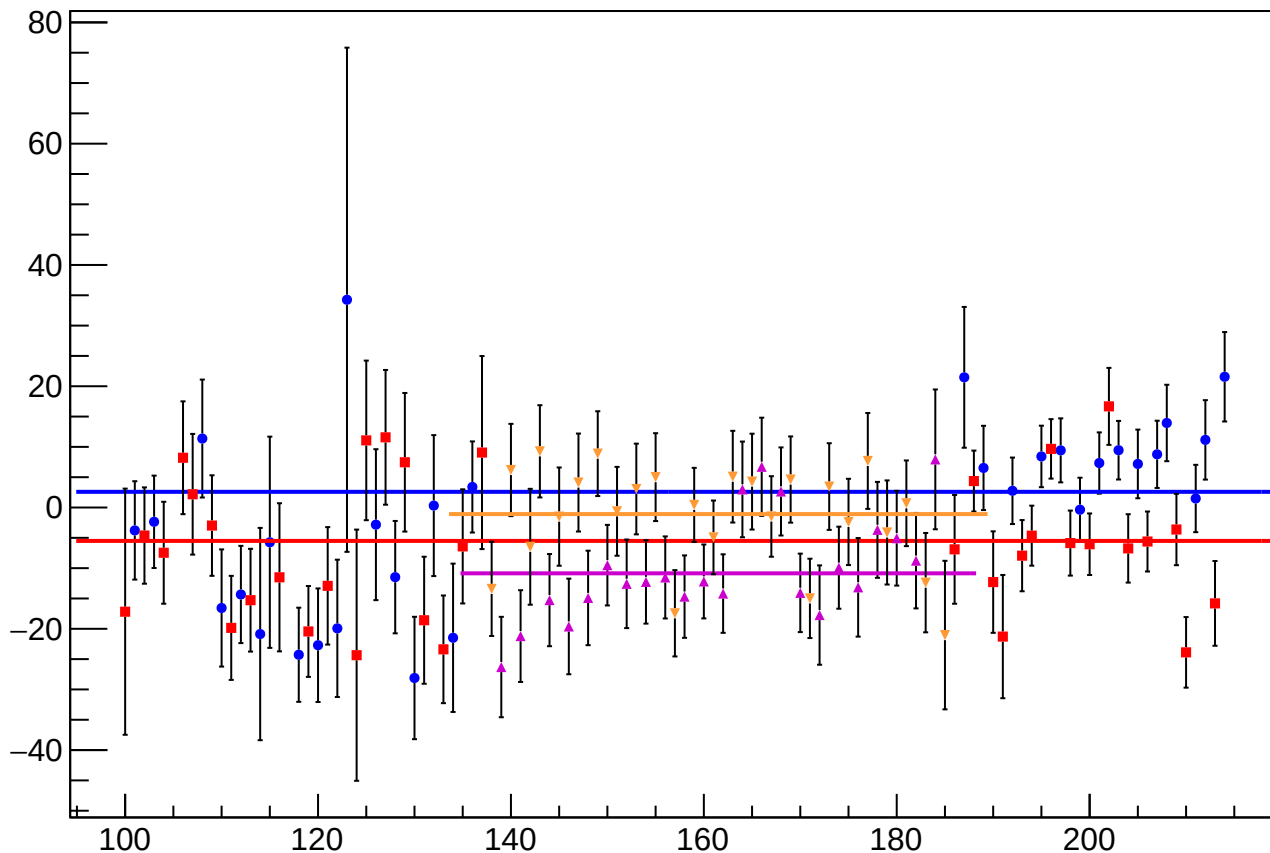
Right: 1056.894 $\pm$ 0.129 χ^2/NDF : 816572.9/64

In: 1216.279 $\pm$ 0.152 χ^2/NDF : 3641392.8/53

Out: 1222.104 $\pm$ 0.148 χ^2/NDF : 3579478.8/58

All: 1219.252 $\pm$ 0.106 χ^2/NDF : 7221626.0/11

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 2.589 $\pm$ 1.303 χ^2/NDF : 74.4/30

Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24

Right Out: -5.506 $\pm$ 1.261 χ^2/NDF : 66.0/33

Left In: -10.851 $\pm$ 1.542 χ^2/NDF : 24.4/22

Left: -5.792 $\pm$ 1.070 χ^2/NDF : 72.7/47

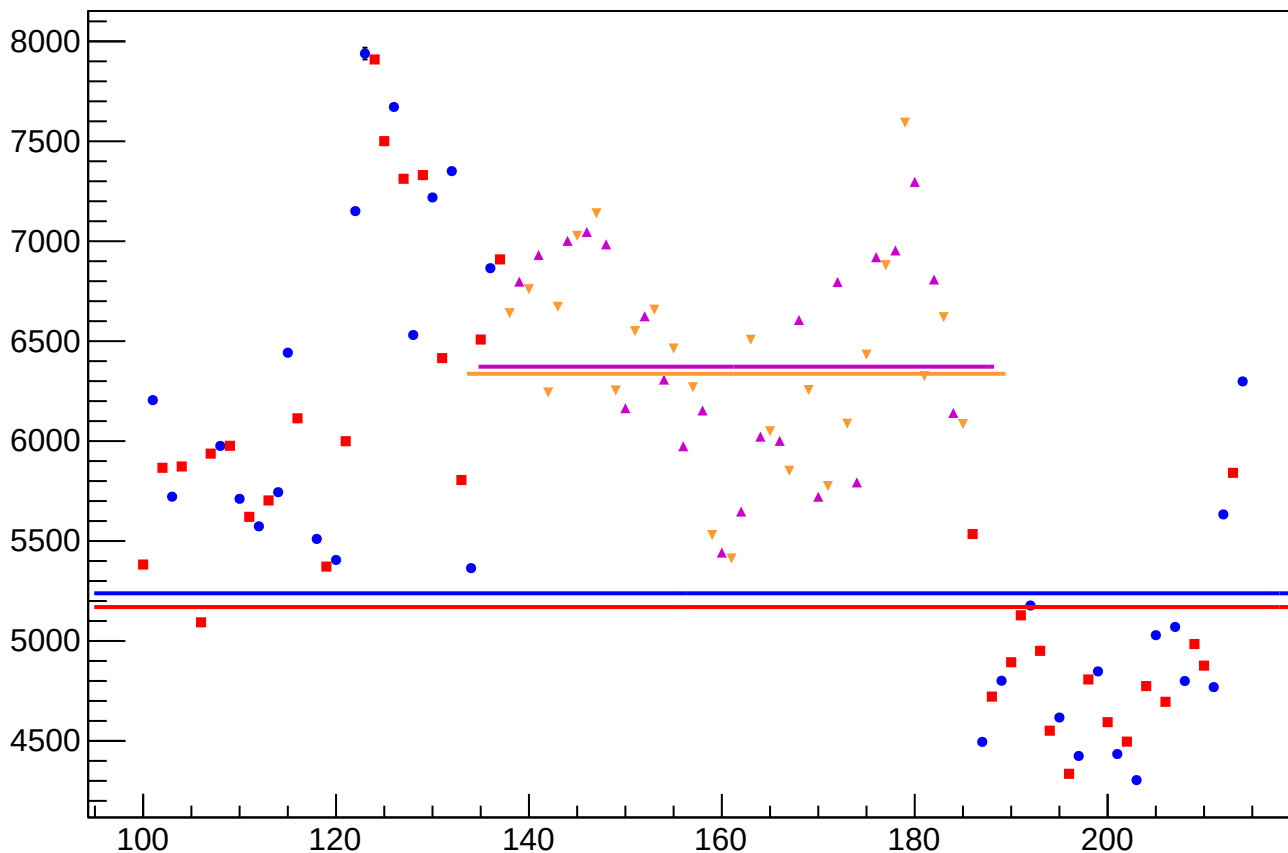
Right: -1.592 $\pm$ 0.906 χ^2/NDF : 160.4/64

In: -3.011 $\pm$ 0.995 χ^2/NDF : 143.2/53

Out: -3.657 $\pm$ 0.962 χ^2/NDF : 98.6/58

All: -3.345 $\pm$ 0.691 χ^2/NDF : 242.0/112

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5238.481+/-0.921 χ^2/NDF : 795997.5/30

Left Out: 6336.876+/-1.052 χ^2/NDF : 222912.5/24

Right Out: 5169.736+/-0.891 χ^2/NDF : 673196.7/33

Left In: 6372.349+/-1.090 χ^2/NDF : 247257.0/22

Left: 6353.974+/-0.757 χ^2/NDF : 470718.0/47

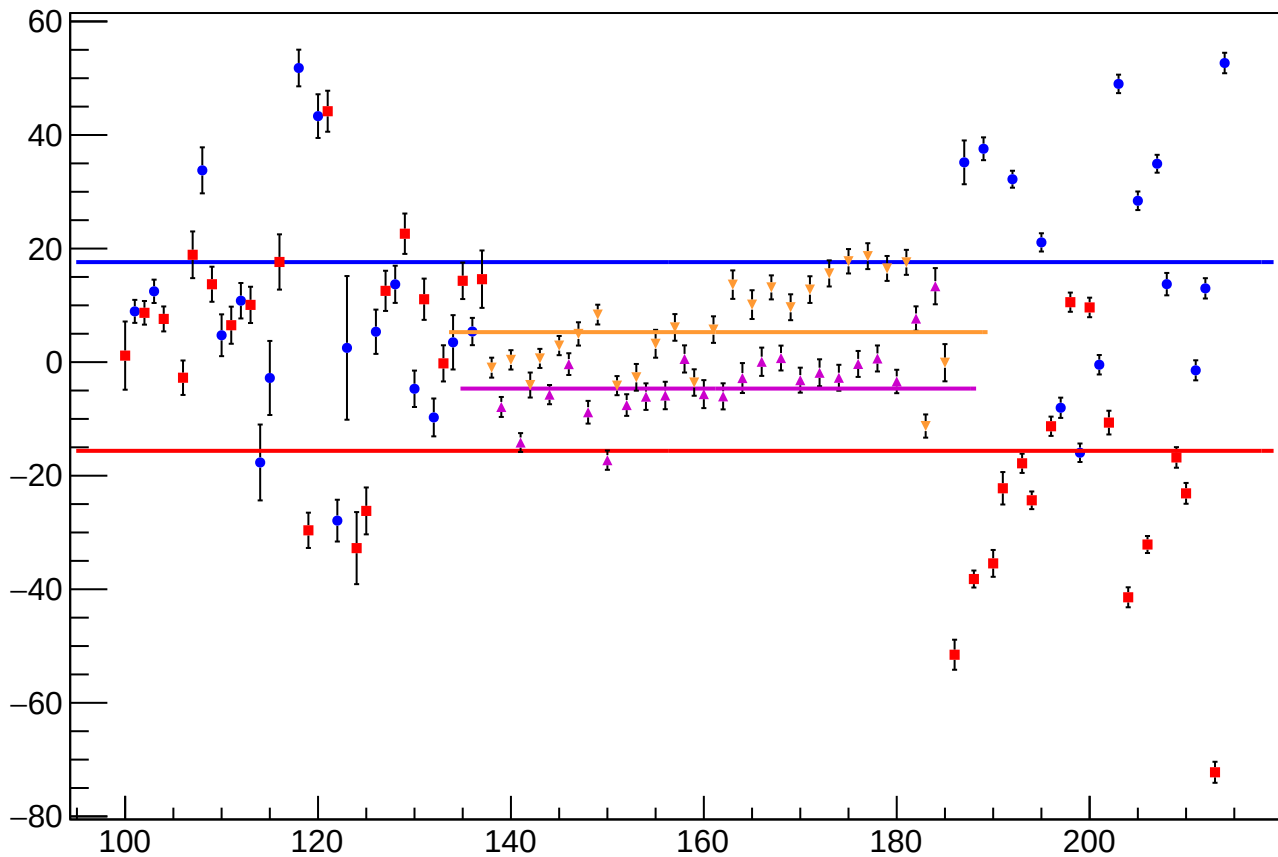
Right: 5202.972+/-0.641 χ^2/NDF : 1472070.1/64

In: 5710.916+/-0.704 χ^2/NDF : 1674379.3/53

Out: 5657.686+/-0.680 χ^2/NDF : 1612967.2/58

All: 5683.389+/-0.489 χ^2/NDF : 3290305.9/11

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 17.616 ± 0.405 χ^2/NDF : 2574.0/30

Left Out: 5.284 ± 0.421 χ^2/NDF : 366.1/24

Right Out: -15.622 ± 0.399 χ^2/NDF : 3555.1/33

Left In: -4.657 ± 0.443 χ^2/NDF : 196.5/22

Left: 0.574 ± 0.305 χ^2/NDF : 827.2/47

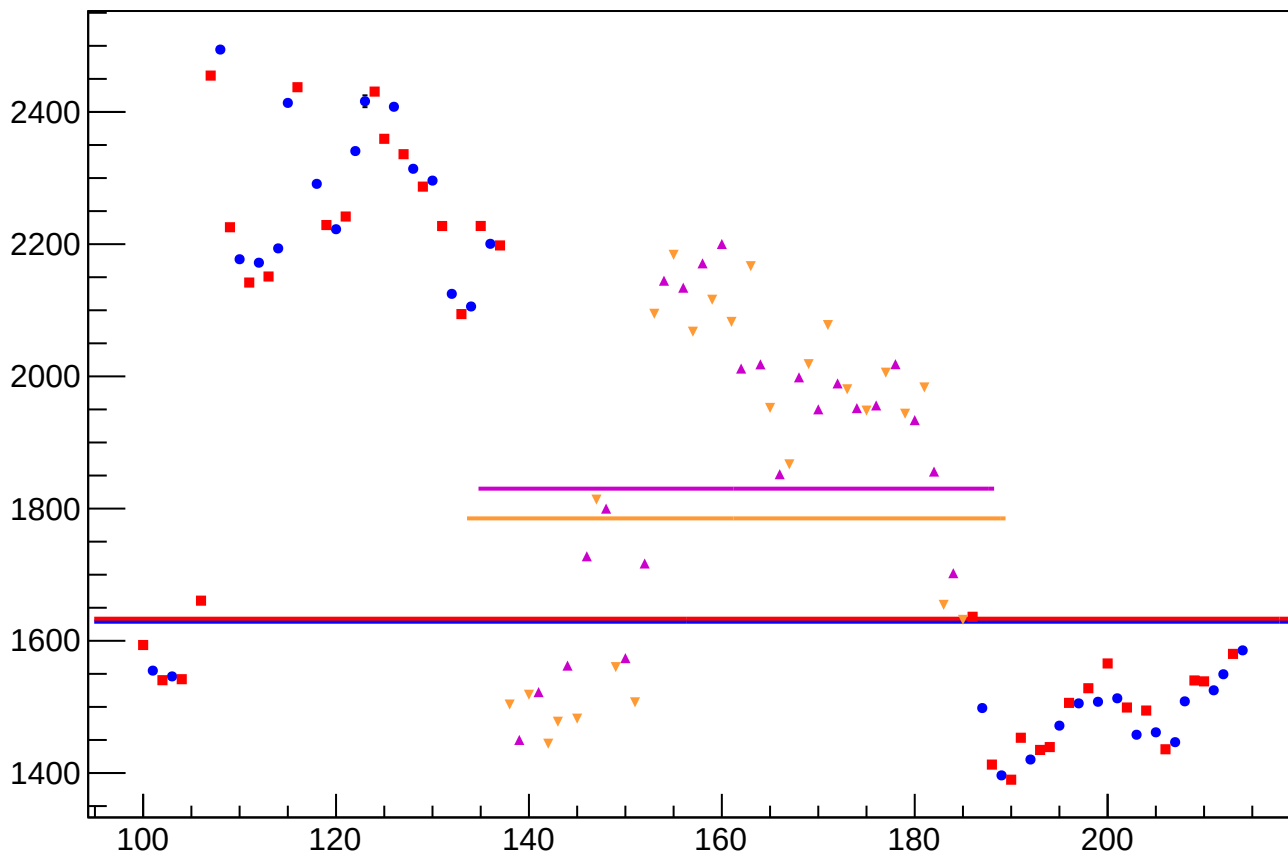
Right: 0.761 ± 0.284 χ^2/NDF : 9550.5/64

In: 7.493 ± 0.299 χ^2/NDF : 4147.4/53

Out: -5.723 ± 0.289 χ^2/NDF : 5221.4/58

All: 0.674 ± 0.208 χ^2/NDF : 10377.9/112

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1628.888 ± 0.286 $\chi^2/\text{NDF}: 1097432.0/30$

Left Out: 1785.179 ± 0.297 $\chi^2/\text{NDF}: 750628.1/24$

Right Out: 1633.454 ± 0.282 $\chi^2/\text{NDF}: 1096595.1/33$

Left In: 1830.160 ± 0.313 $\chi^2/\text{NDF}: 508391.9/22$

Left: 1806.491 ± 0.216 $\chi^2/\text{NDF}: 1269853.4/47$

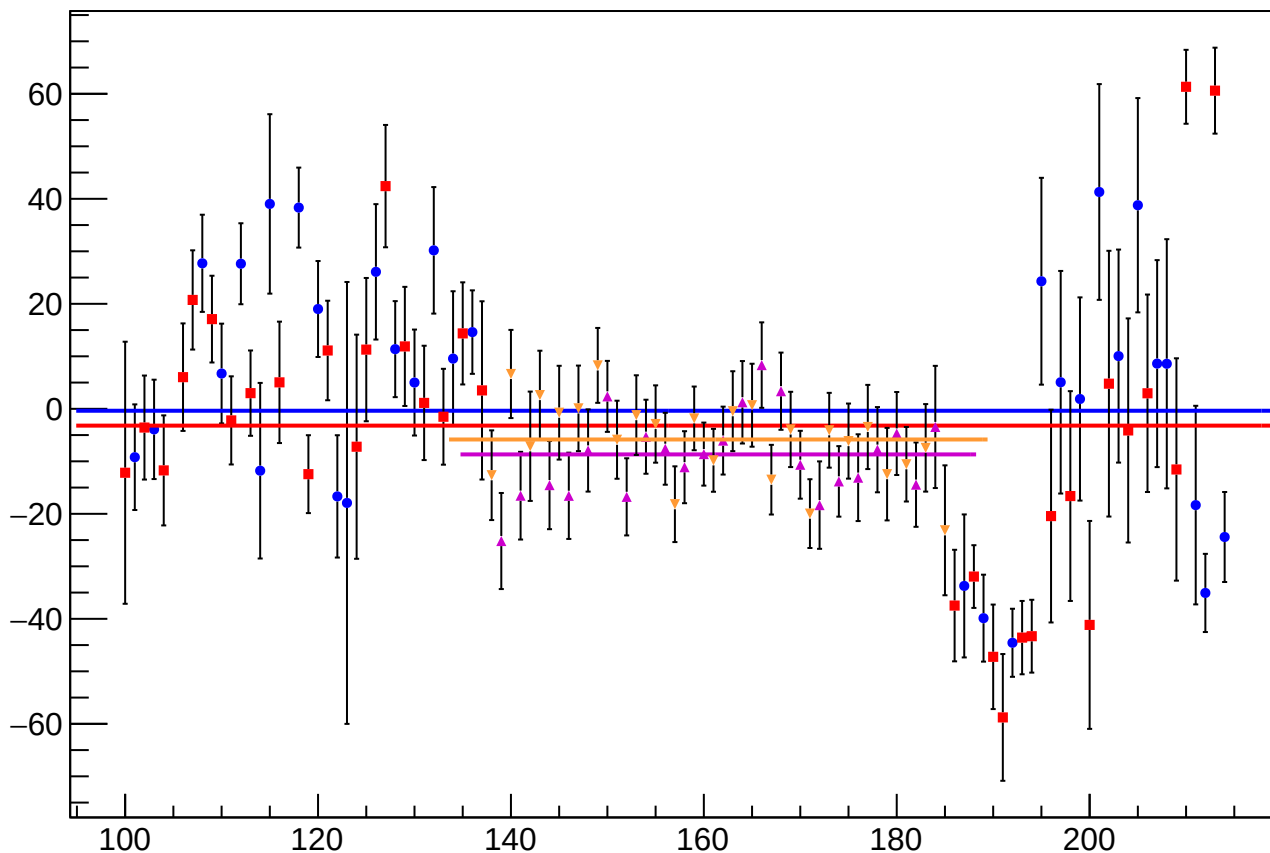
Right: 1631.204 ± 0.201 $\chi^2/\text{NDF}: 2194156.2/64$

In: 1720.358 ± 0.211 $\chi^2/\text{NDF}: 1830707.3/53$

Out: 1705.294 ± 0.205 $\chi^2/\text{NDF}: 1984198.3/58$

All: 1712.585 ± 0.147 $\chi^2/\text{NDF}: 3817527.3/111$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -0.367 ± 1.967 χ^2/NDF : 194.6/30

Left Out: -5.840 ± 1.518 χ^2/NDF : 23.3/24

Right Out: -3.200 ± 1.751 χ^2/NDF : 332.1/33

Left In: -8.683 ± 1.571 χ^2/NDF : 21.9/22

Left: -7.214 ± 1.092 χ^2/NDF : 47.0/47

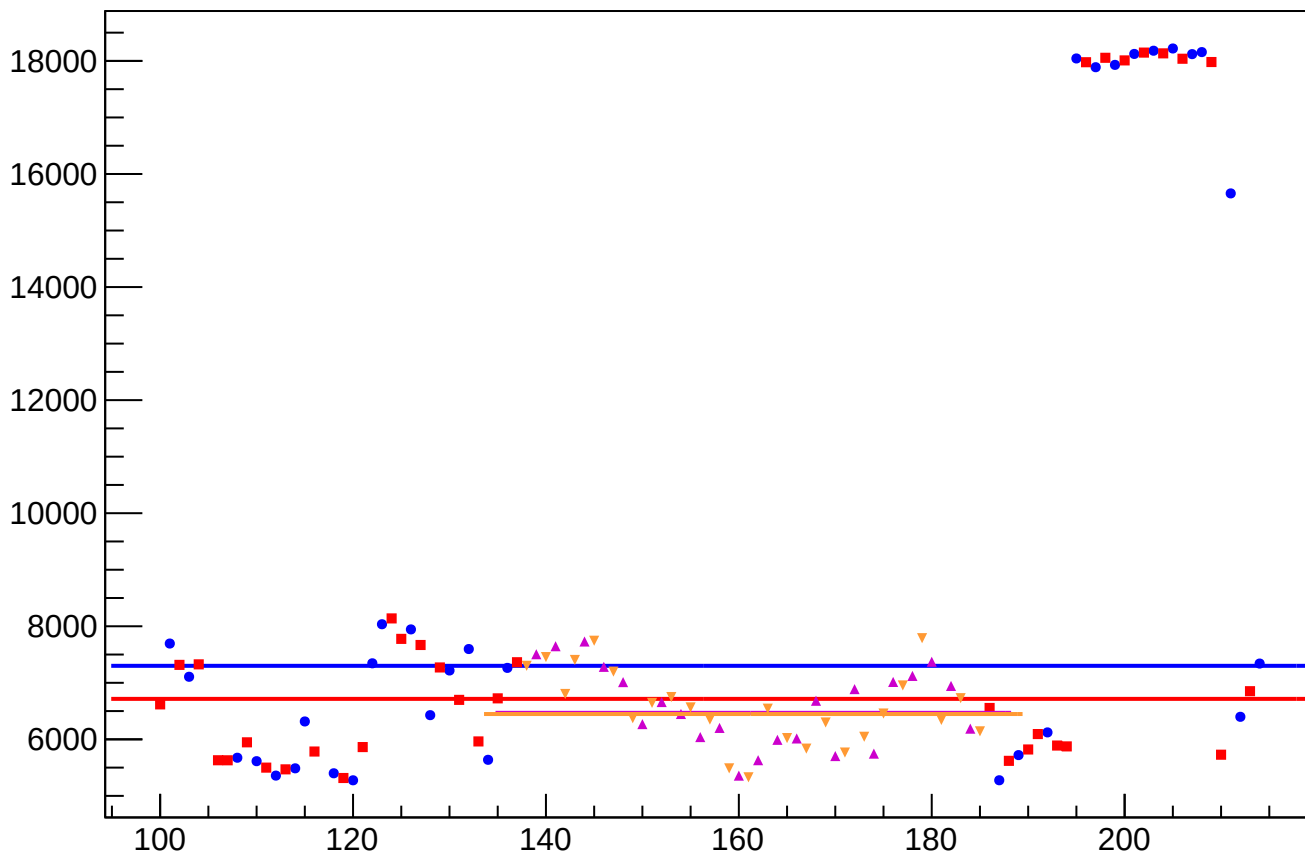
Right: -1.947 ± 1.308 χ^2/NDF : 527.8/64

In: -5.444 ± 1.227 χ^2/NDF : 227.4/53

Out: -4.707 ± 1.147 χ^2/NDF : 356.7/58

All: -5.051 ± 0.838 χ^2/NDF : 584.3/112

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7300.432 $\pm$ 1.391 χ^2 /NDF: 5590884.0/30

Left Out: 6447.712 $\pm$ 1.074 χ^2 /NDF: 371671.1/24

Right Out: 6715.758 $\pm$ 1.238 χ^2 /NDF: 4696207.3/33

Left In: 6468.902 $\pm$ 1.111 χ^2 /NDF: 383325.4/22

Left: 6457.948 $\pm$ 0.772 χ^2 /NDF: 755184.7/47

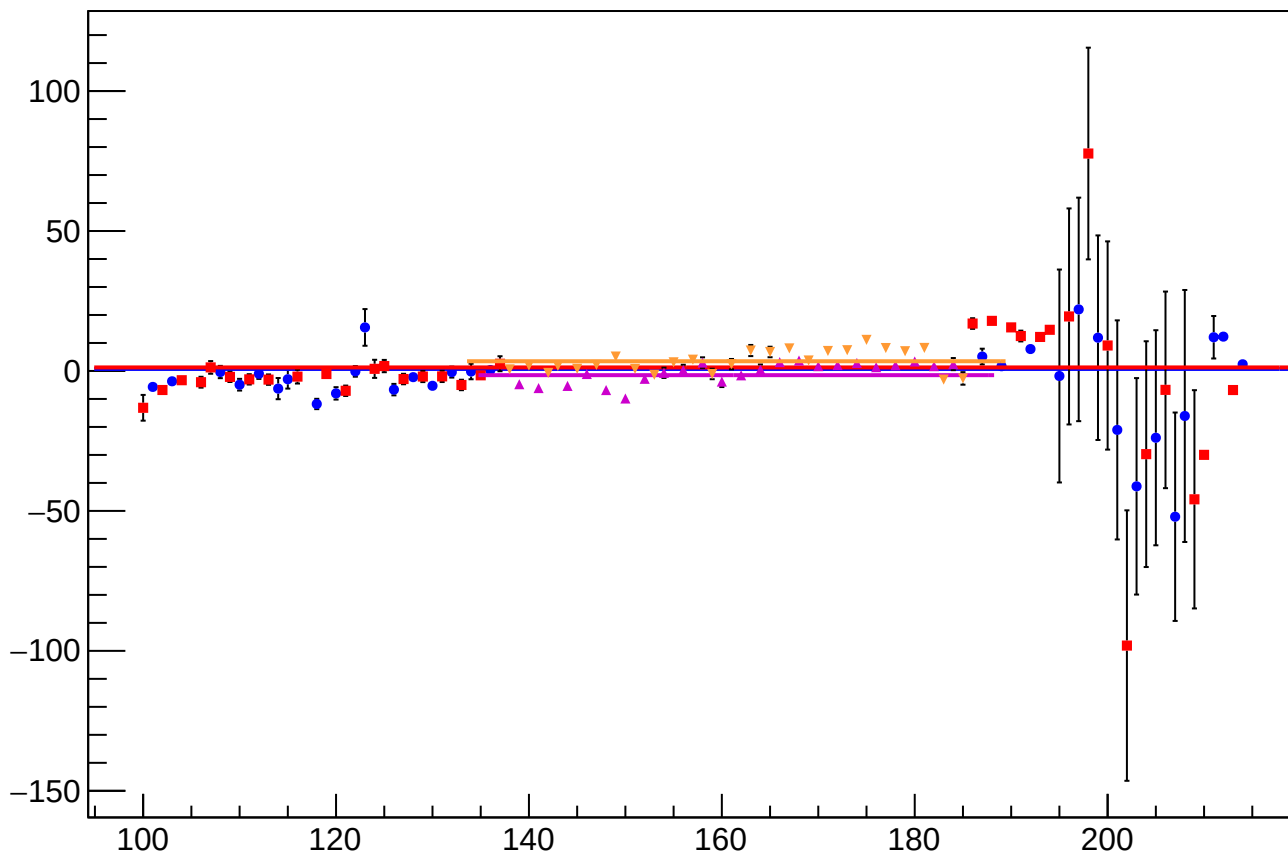
Right: 6974.321 $\pm$ 0.925 χ^2 /NDF: 10385695.7/64

In: 6792.730 $\pm$ 0.868 χ^2 /NDF: 6192534.9/53

Out: 6562.746 $\pm$ 0.811 χ^2 /NDF: 5094630.2/58

All: 6669.989 $\pm$ 0.593 χ^2 /NDF: 11324650.8/113

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 0.724 ± 0.362 χ^2/NDF : 292.4/30

Left Out: 3.470 ± 0.276 χ^2/NDF : 176.0/24

Right Out: 1.261 ± 0.328 χ^2/NDF : 1362.3/33

Left In: -1.502 ± 0.291 χ^2/NDF : 202.7/22

Left: 1.109 ± 0.200 χ^2/NDF : 532.4/47

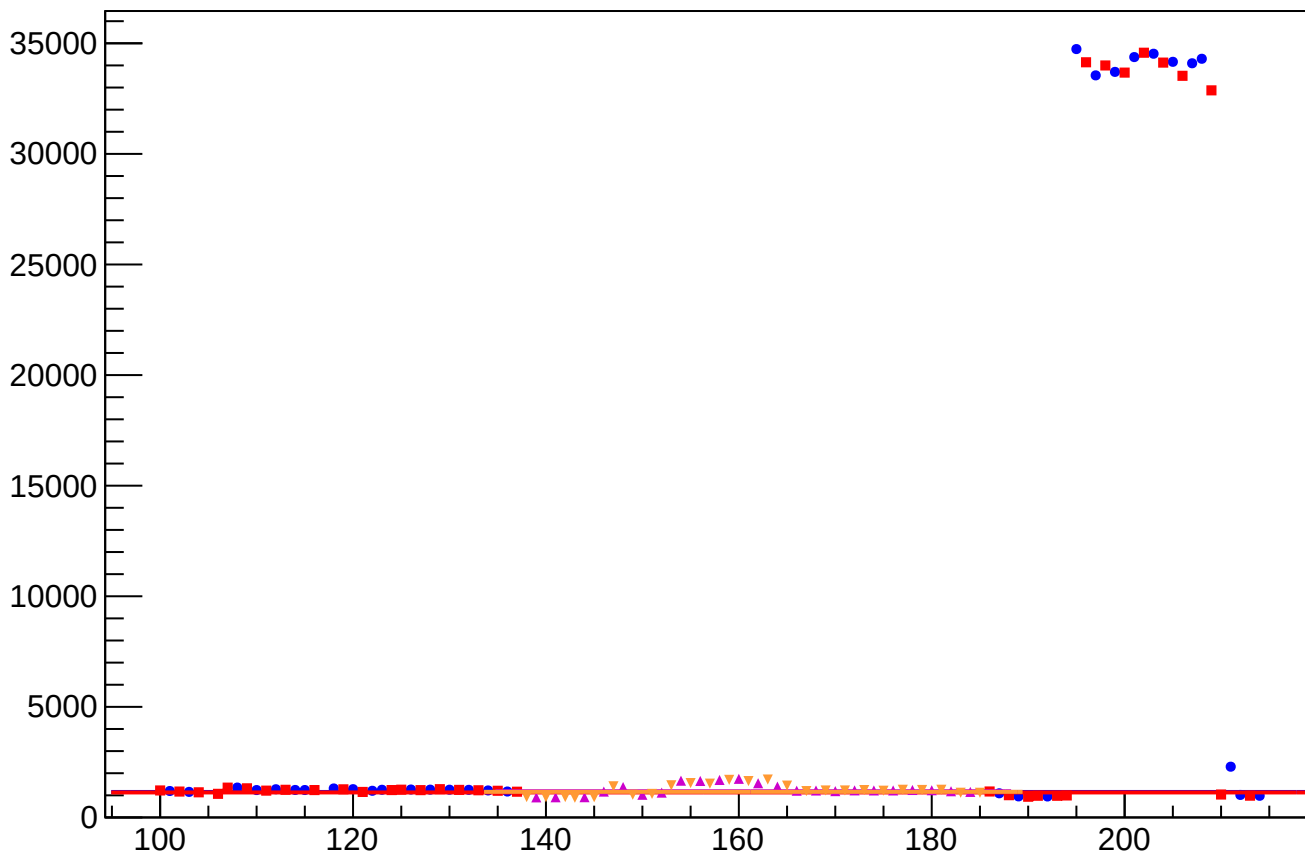
Right: 1.019 ± 0.243 χ^2/NDF : 1655.9/64

In: -0.630 ± 0.227 χ^2/NDF : 518.1/53

Out: 2.553 ± 0.211 χ^2/NDF : 1564.8/58

All: 1.073 ± 0.155 χ^2/NDF : 2188.4/112

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1152.211 $\pm$ 0.256

χ^2/NDF : 11851099.5/30

Left: 1171.274 $\pm$ 0.142

χ^2/NDF : 2609306.9/47

Left Out: 1158.894 $\pm$ 0.195

χ^2/NDF : 1410423.6/24

Right: 1140.379 $\pm$ 0.172

χ^2/NDF : 21968694.8/64

Right Out: 1130.673 $\pm$ 0.232

χ^2/NDF : 10113709.2/33

In: 1172.134 $\pm$ 0.160

χ^2/NDF : 13051483.1/53

Out: 1147.177 $\pm$ 0.149

χ^2/NDF : 11532790.9/58

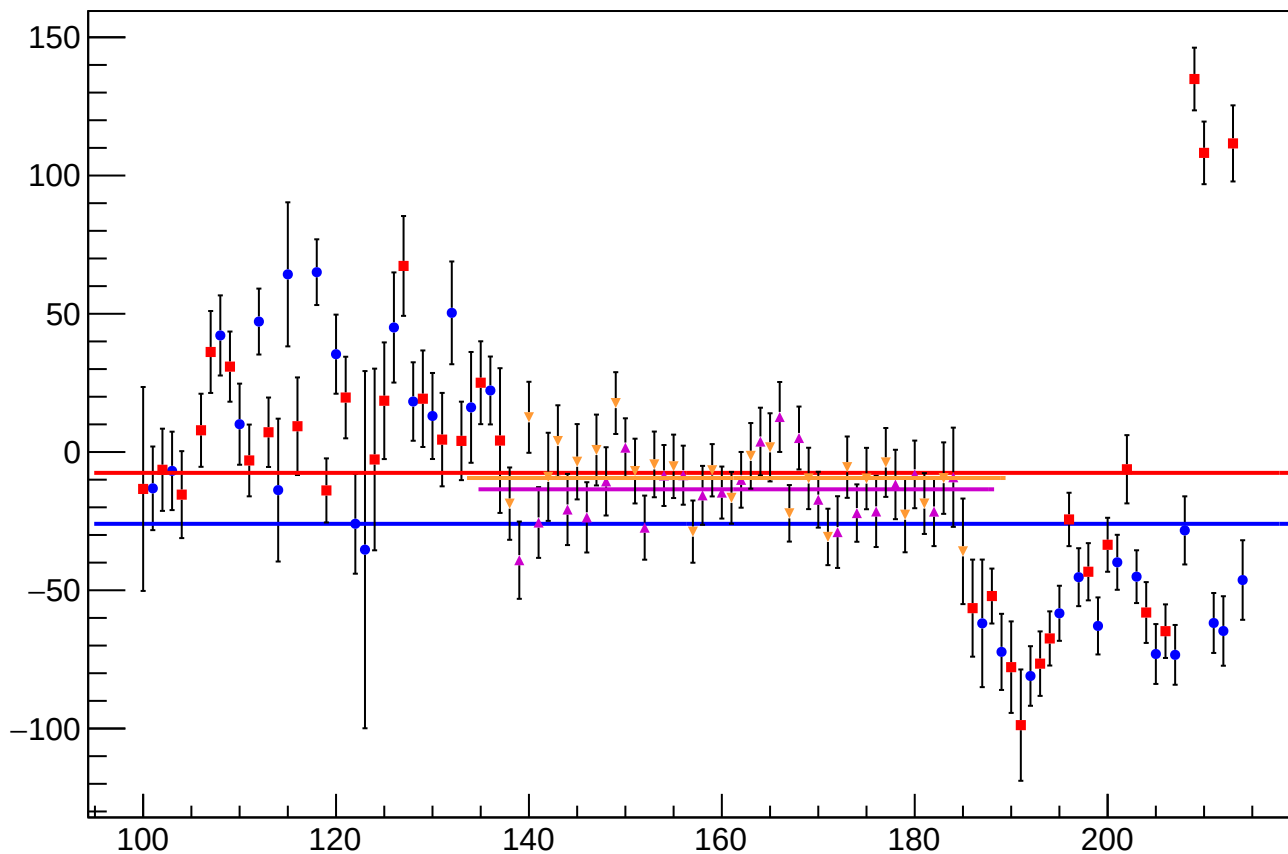
Left In: 1184.966 $\pm$ 0.206

χ^2/NDF : 1190431.5/22

All: 1158.784 $\pm$ 0.109

χ^2/NDF : 24597243.1/13

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -25.968 ± 2.381 χ^2/NDF : 356.2/30

Left Out: -9.398 ± 2.358 χ^2/NDF : 26.3/24

Right Out: -7.538 ± 2.286 χ^2/NDF : 607.0/33

Left In: -13.485 ± 2.443 χ^2/NDF : 21.6/22

Left: -11.369 ± 1.697 χ^2/NDF : 49.3/47

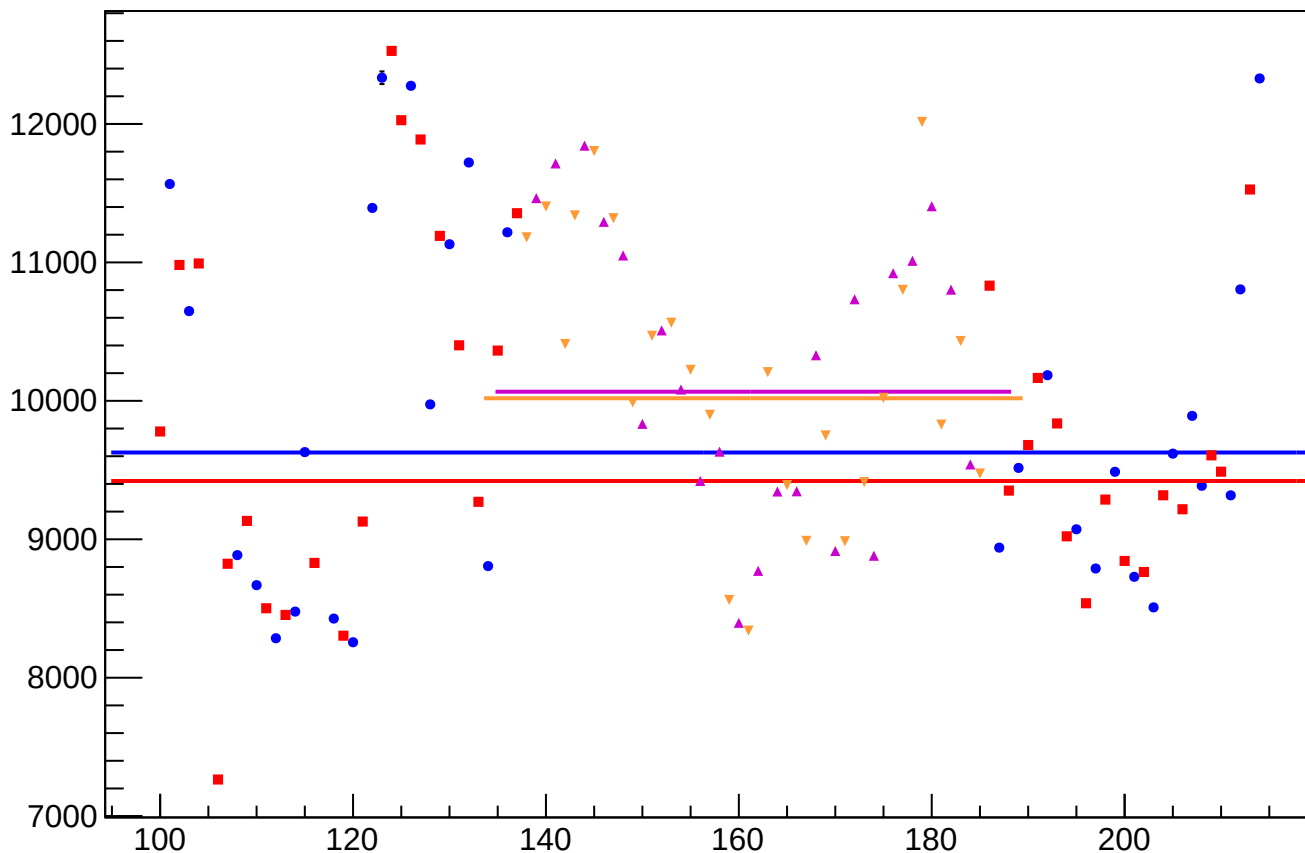
Right: -16.379 ± 1.649 χ^2/NDF : 994.4/64

In: -19.888 ± 1.705 χ^2/NDF : 391.1/53

Out: -8.438 ± 1.641 χ^2/NDF : 633.6/58

All: -13.946 ± 1.182 χ^2/NDF : 1048.1/112

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9626.886 ± 1.683 $\chi^2/\text{NDF}: 427389.4/30$

Left Out: 10018.563 ± 1.668 $\chi^2/\text{NDF}: 344534.6/24$

Right Out: 9420.983 ± 1.616 $\chi^2/\text{NDF}: 375675.6/33$

Left In: 10065.909 ± 1.727 $\chi^2/\text{NDF}: 357868.9/22$

Left: 10041.404 ± 1.200 $\chi^2/\text{NDF}: 702792.3/47$

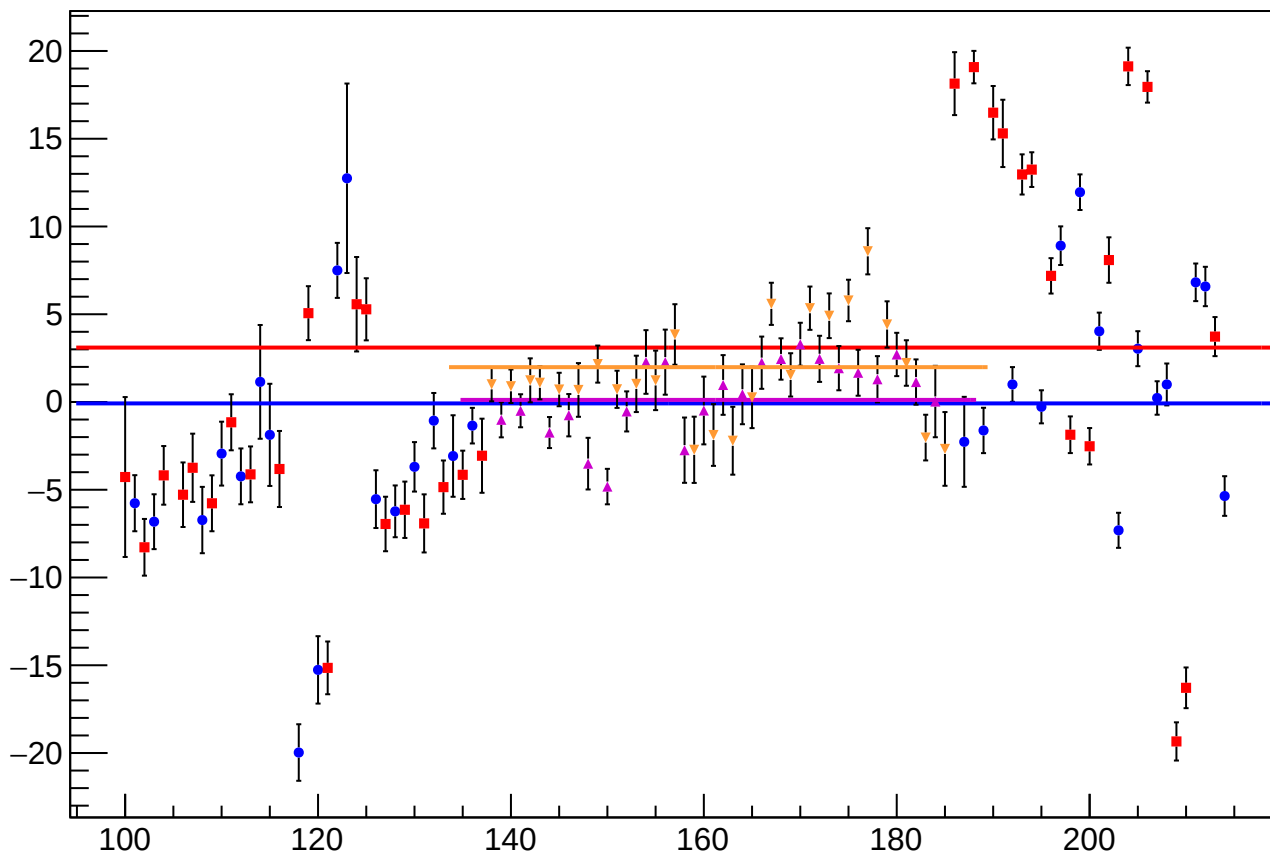
Right: 9519.752 ± 1.166 $\chi^2/\text{NDF}: 810849.9/64$

In: 9840.733 ± 1.206 $\chi^2/\text{NDF}: 818391.0/53$

Out: 9710.417 ± 1.161 $\chi^2/\text{NDF}: 786419.3/58$

All: 9773.102 ± 0.836 $\chi^2/\text{NDF}: 1610874.4/11$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.237 χ^2/NDF : 723.5/30

Left Out: 1.985 ± 0.255 χ^2/NDF : 101.2/24

Right Out: 3.101 ± 0.233 χ^2/NDF : 2456.3/33

Left In: 0.120 ± 0.269 χ^2/NDF : 67.6/22

Left: 1.102 ± 0.185 χ^2/NDF : 194.2/47

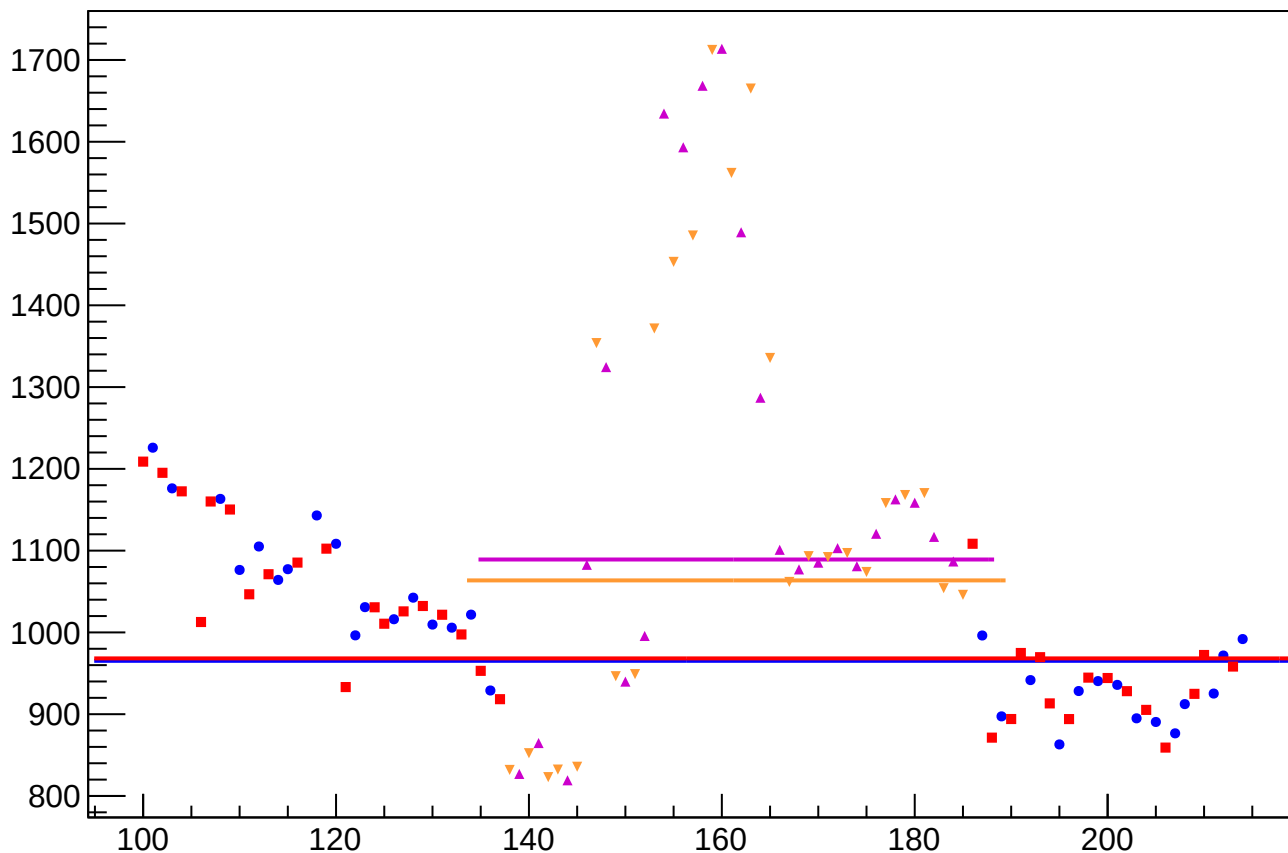
Right: 1.533 ± 0.166 χ^2/NDF : 3271.3/64

In: 0.007 ± 0.178 χ^2/NDF : 791.4/53

Out: 2.591 ± 0.172 χ^2/NDF : 2568.0/58

All: 1.340 ± 0.124 χ^2/NDF : 3468.5/112

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 965.282 ± 0.167 χ^2/NDF : 272173.5/30

Left Out: 1063.600 ± 0.180 χ^2/NDF : 1617376.3/24

Right Out: 968.218 ± 0.165 χ^2/NDF : 269475.7/33

Left In: 1089.154 ± 0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700 ± 0.131 χ^2/NDF : 3057378.7/47

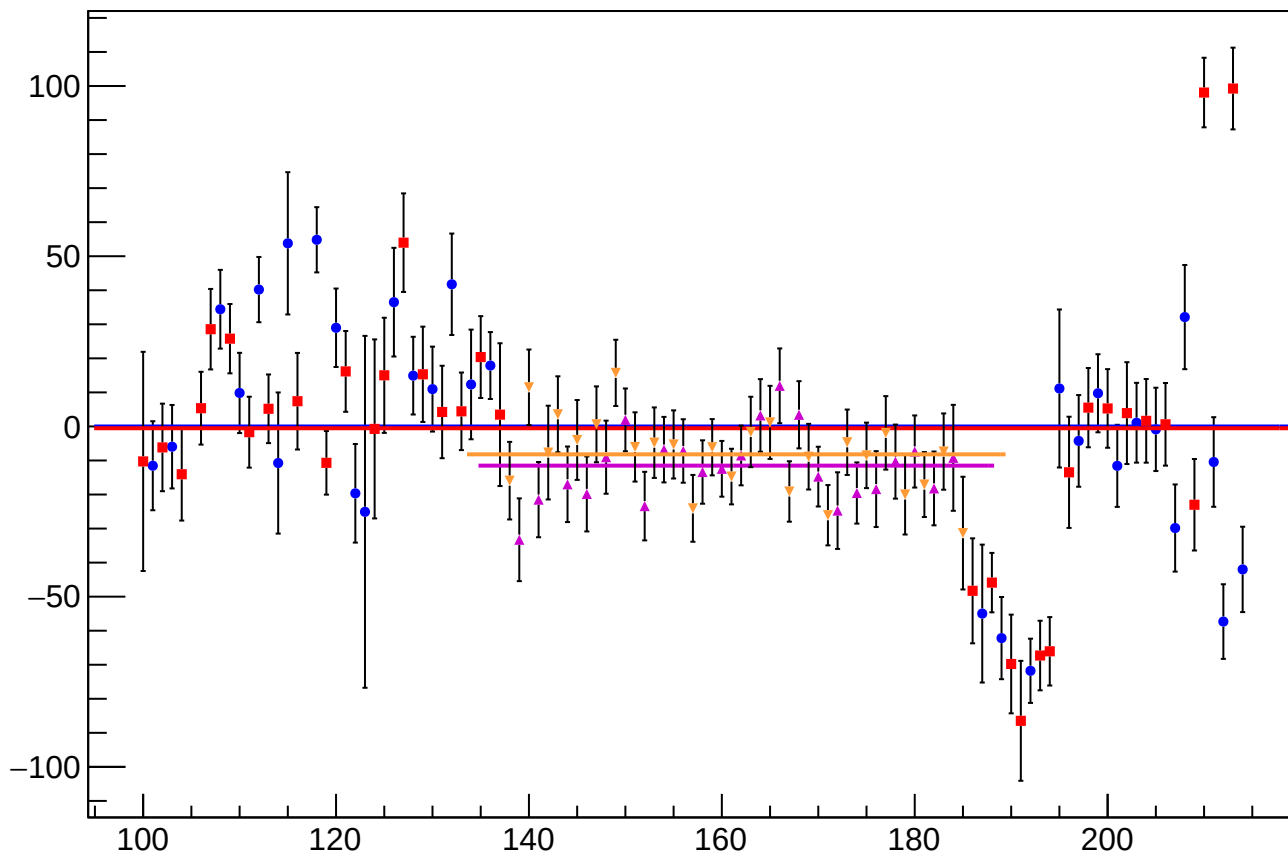
Right: 966.771 ± 0.118 χ^2/NDF : 541805.1/64

In: 1019.444 ± 0.126 χ^2/NDF : 1941868.1/53

Out: 1011.753 ± 0.122 χ^2/NDF : 2039182.4/58

All: 1015.477 ± 0.087 χ^2/NDF : 3982983.6/11

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -0.016 ± 2.293 $\chi^2/\text{NDF}: 238.5/30$

Left Out: -8.195 ± 2.049 $\chi^2/\text{NDF}: 26.2/24$

Right Out: -0.532 ± 2.127 $\chi^2/\text{NDF}: 372.6/33$

Left In: -11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

Left: -9.796 ± 1.474 $\chi^2/\text{NDF}: 48.5/47$

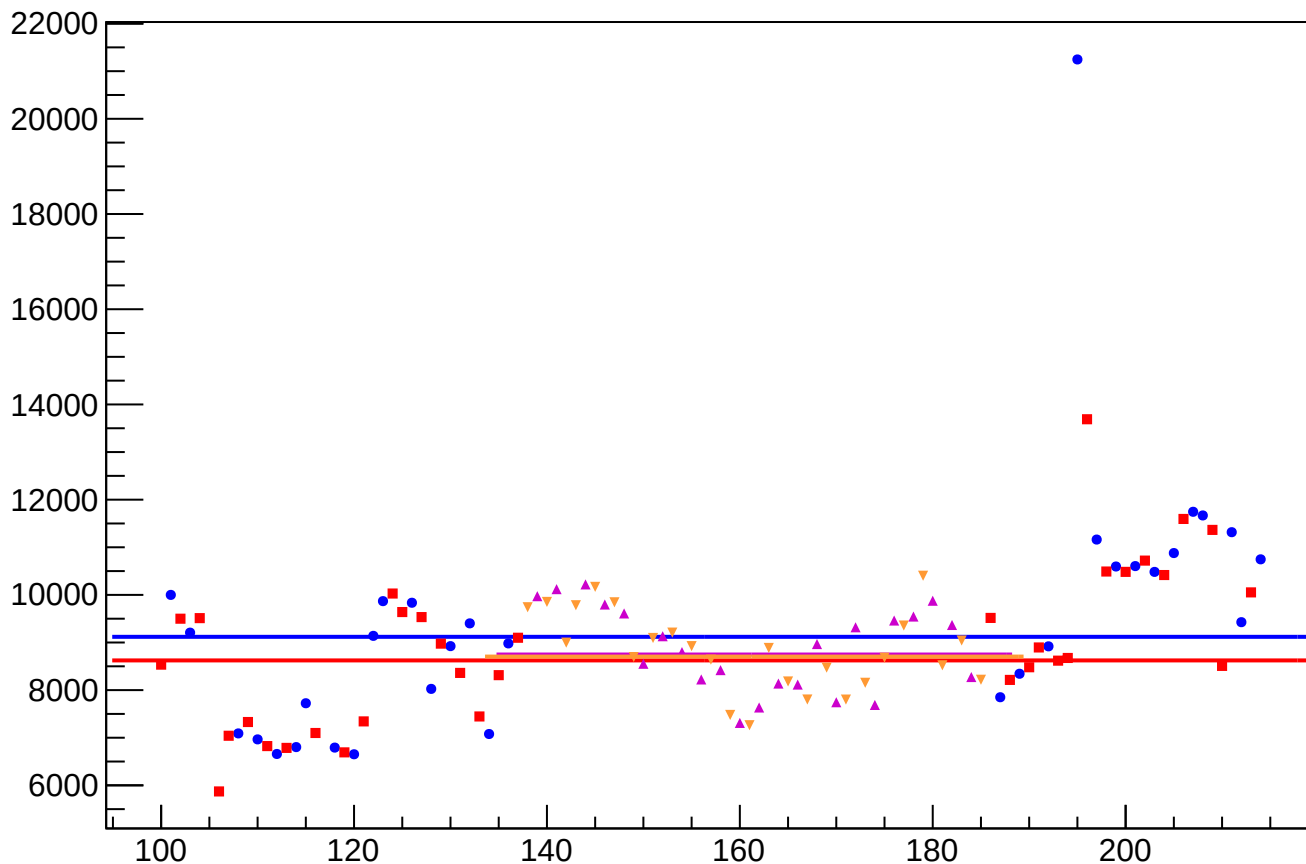
Right: -0.293 ± 1.559 $\chi^2/\text{NDF}: 611.1/64$

In: -6.210 ± 1.558 $\chi^2/\text{NDF}: 273.0/53$

Out: -4.507 ± 1.475 $\chi^2/\text{NDF}: 405.5/58$

All: -5.312 ± 1.071 $\chi^2/\text{NDF}: 679.1/112$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9119.294 ± 1.622 $\chi^2/\text{NDF}: 1541194.8/30$

Left Out: 8704.193 ± 1.449 $\chi^2/\text{NDF}: 332364.3/24$

Right Out: 8623.696 ± 1.504 $\chi^2/\text{NDF}: 1144277.5/33$

Left In: 8747.415 ± 1.501 $\chi^2/\text{NDF}: 347110.4/22$

Left: 8725.041 ± 1.042 $\chi^2/\text{NDF}: 679904.0/47$

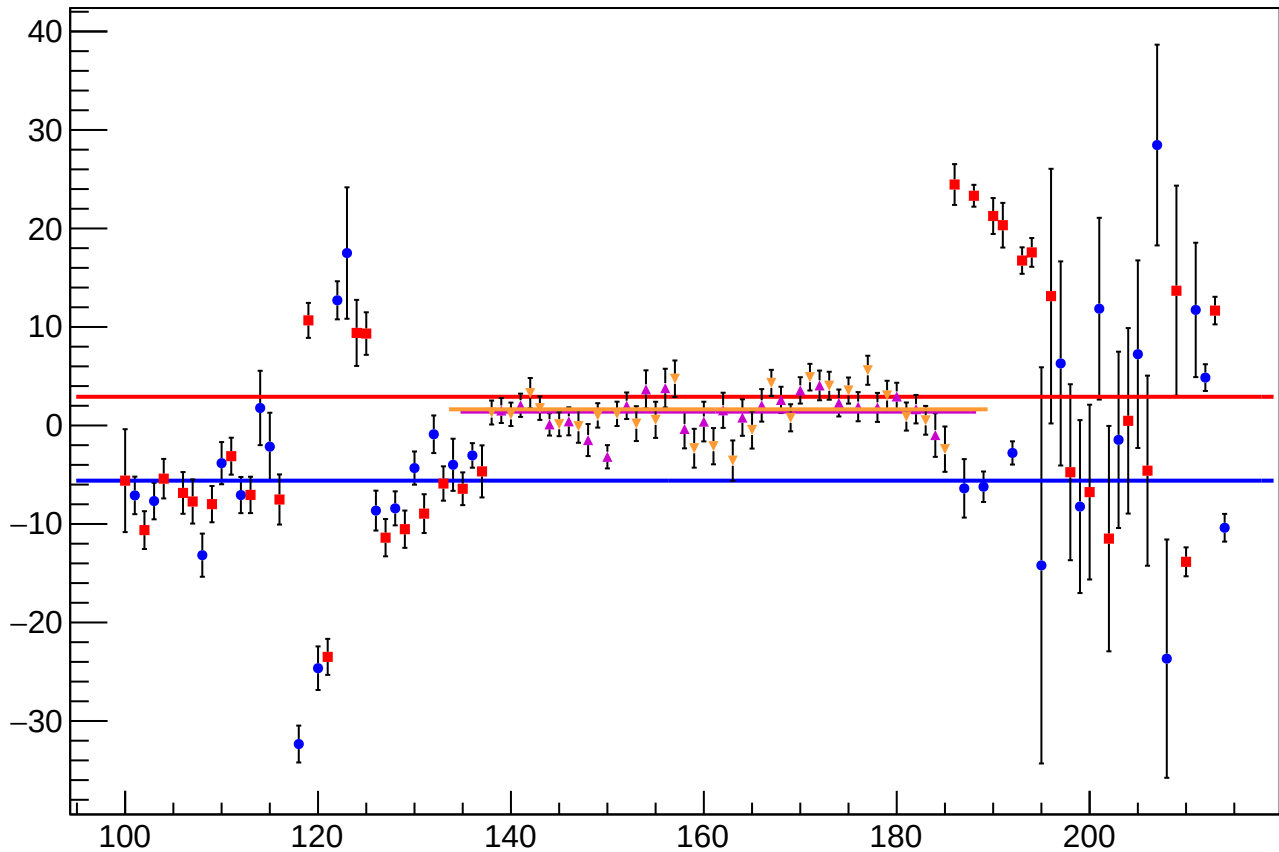
Right: 8852.871 ± 1.103 $\chi^2/\text{NDF}: 2735689.4/64$

In: 8918.988 ± 1.101 $\chi^2/\text{NDF}: 1916635.1/53$

Out: 8665.452 ± 1.043 $\chi^2/\text{NDF}: 1478127.8/58$

All: 8785.359 ± 0.757 $\chi^2/\text{NDF}: 3422691.3/11$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -5.602 $\pm$ 0.389 χ^2/NDF : 519.9/30

Left Out: 1.639 $\pm$ 0.294 χ^2/NDF :51.3/24

Right Out: 2.913 $\pm$ 0.350 χ^2/NDF : 1642.6/33

Left In: 1.404 $\pm$ 0.309 χ^2/NDF :34.1/22

Left: 1.528 $\pm$ 0.213 χ^2/NDF : 85.8/47

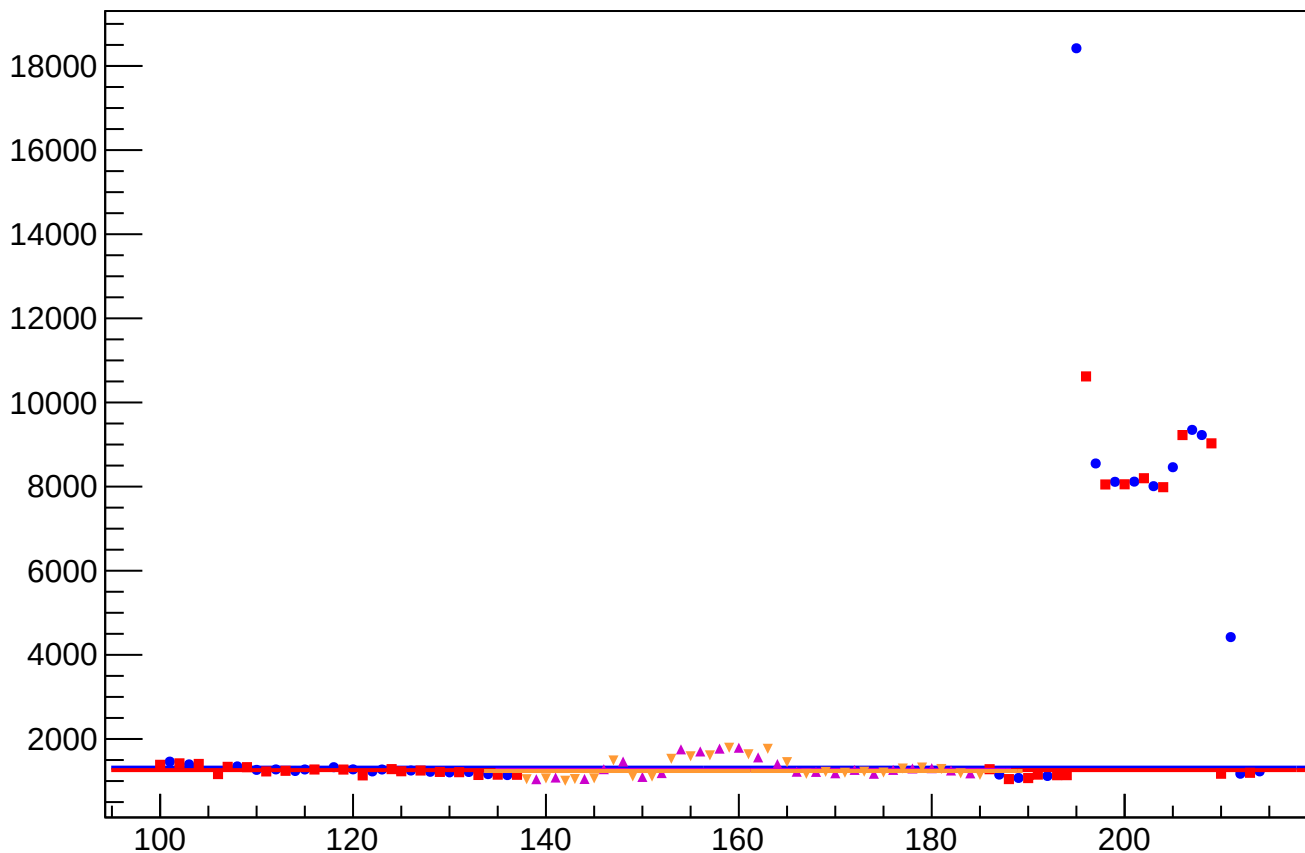
Right: -0.893 $\pm$ 0.260 χ^2/NDF : 2427.7/64

In: -1.308 $\pm$ 0.242 χ^2/NDF :753.0/53

Out: 2.166 $\pm$ 0.225 χ^2/NDF :1701.7/58

All: 0.556 $\pm$ 0.165 χ^2/NDF : 2565.4/112

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1318.986+/-0.275 χ^2/NDF : 9695695.9/30

Left Out: 1238.437+/-0.208 χ^2/NDF : 965173.0/24

Right Out: 1259.864+/-0.247 χ^2/NDF : 7767939.5/33

Left In: 1265.673+/-0.218 χ^2/NDF : 845157.0/22

Left: 1251.361+/-0.151 χ^2/NDF : 1818496.6/47

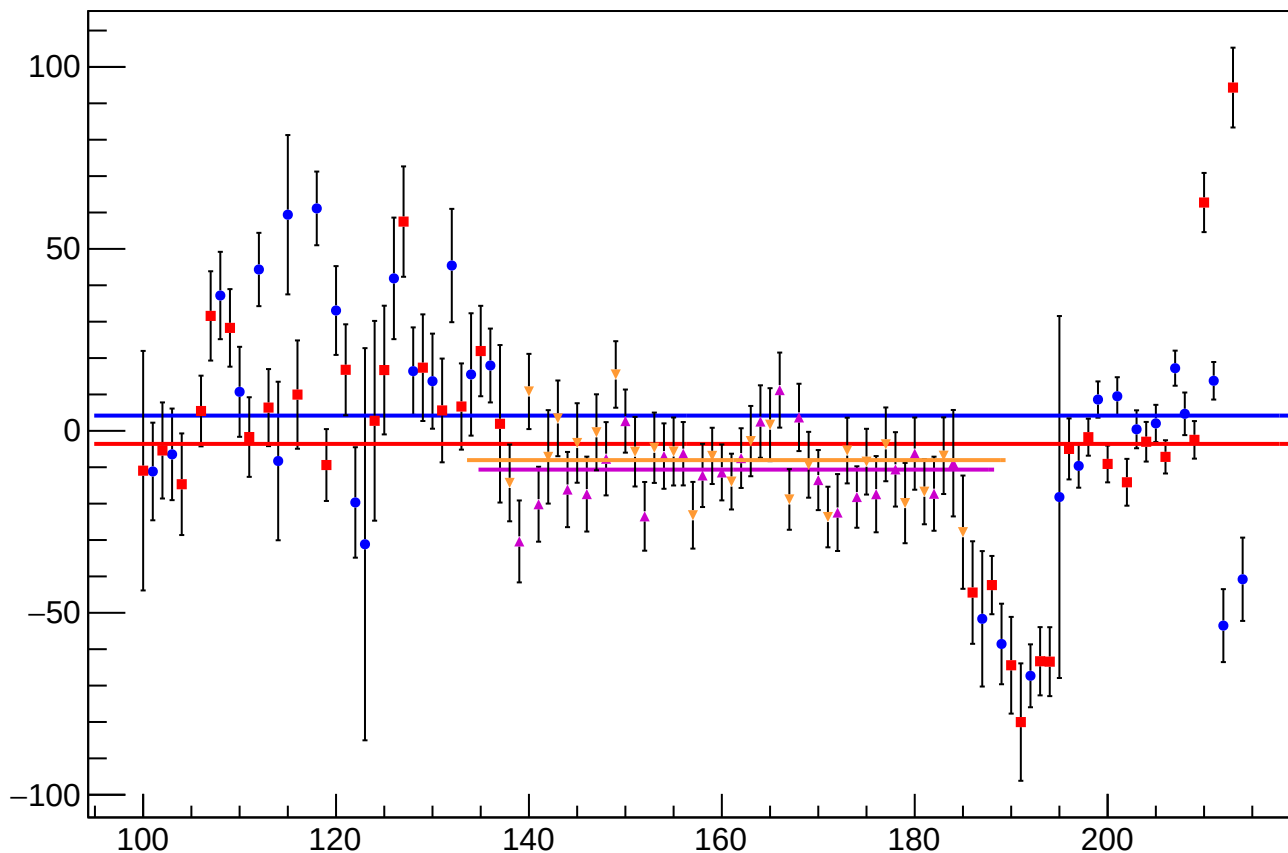
Right: 1286.291+/-0.184 χ^2/NDF : 17489207.4/64

In: 1286.309+/-0.171 χ^2/NDF : 10563899.6/53

Out: 1247.300+/-0.159 χ^2/NDF : 8737518.7/58

All: 1265.379+/-0.116 χ^2/NDF : 19329322.9/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 4.192 ± 1.531 $\chi^2/\text{NDF}: 265.5/30$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -3.586 ± 1.540 $\chi^2/\text{NDF}: 355.3/33$

Left In: -10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

Left: -9.301 ± 1.380 $\chi^2/\text{NDF}: 48.6/47$

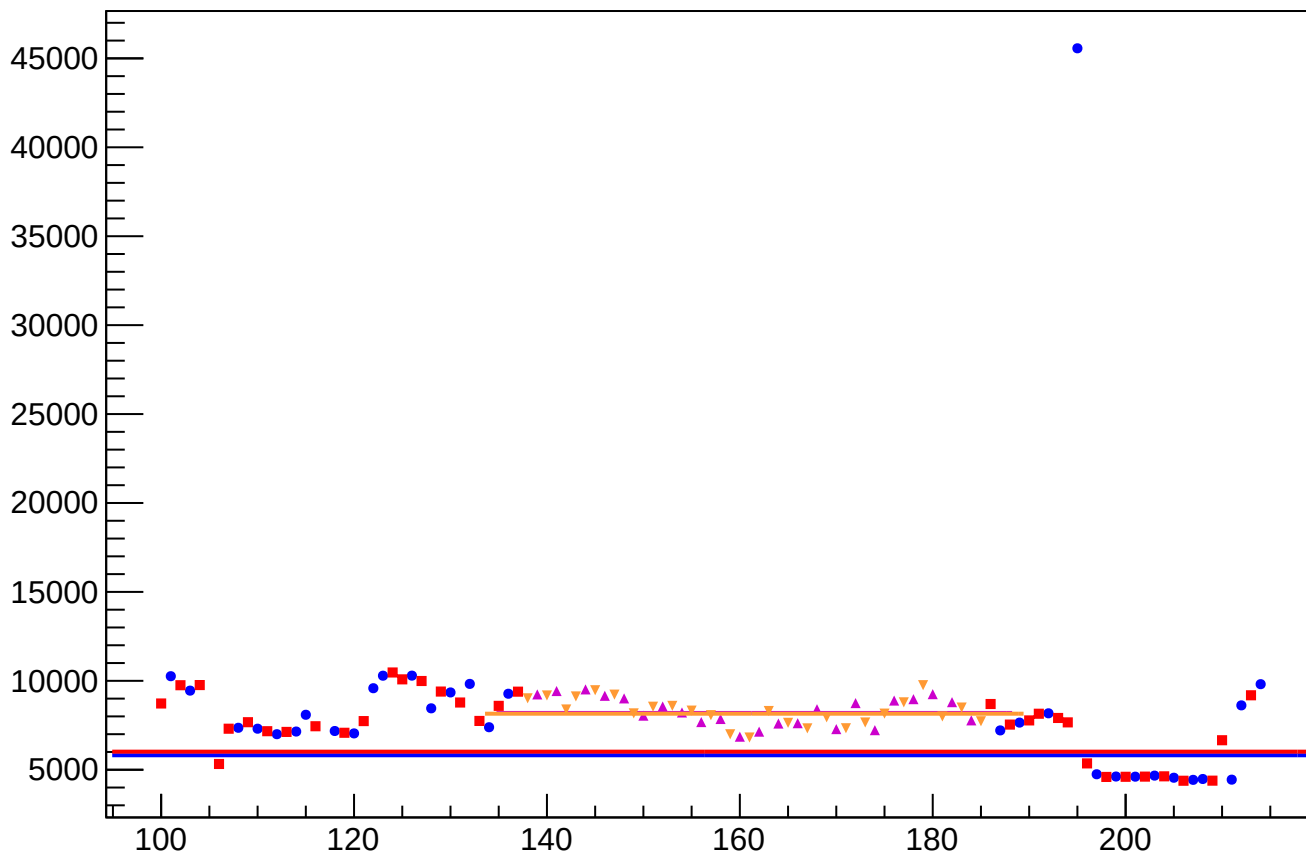
Right: 0.325 ± 1.086 $\chi^2/\text{NDF}: 633.6/64$

In: -1.336 ± 1.213 $\chi^2/\text{NDF}: 321.9/53$

Out: -5.332 ± 1.201 $\chi^2/\text{NDF}: 384.9/58$

All: -3.354 ± 0.853 $\chi^2/\text{NDF}: 712.3/112$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5814.703+/-1.083 χ^2/NDF : 4276457.1/30

Left Out: 8151.489+/-1.356 χ^2/NDF : 321803.3/24

Right Out: 6017.637+/-1.089 χ^2/NDF : 2717282.9/33

Left In: 8193.636+/-1.405 χ^2/NDF : 338377.6/22

Left: 8171.814+/-0.976 χ^2/NDF : 660646.6/47

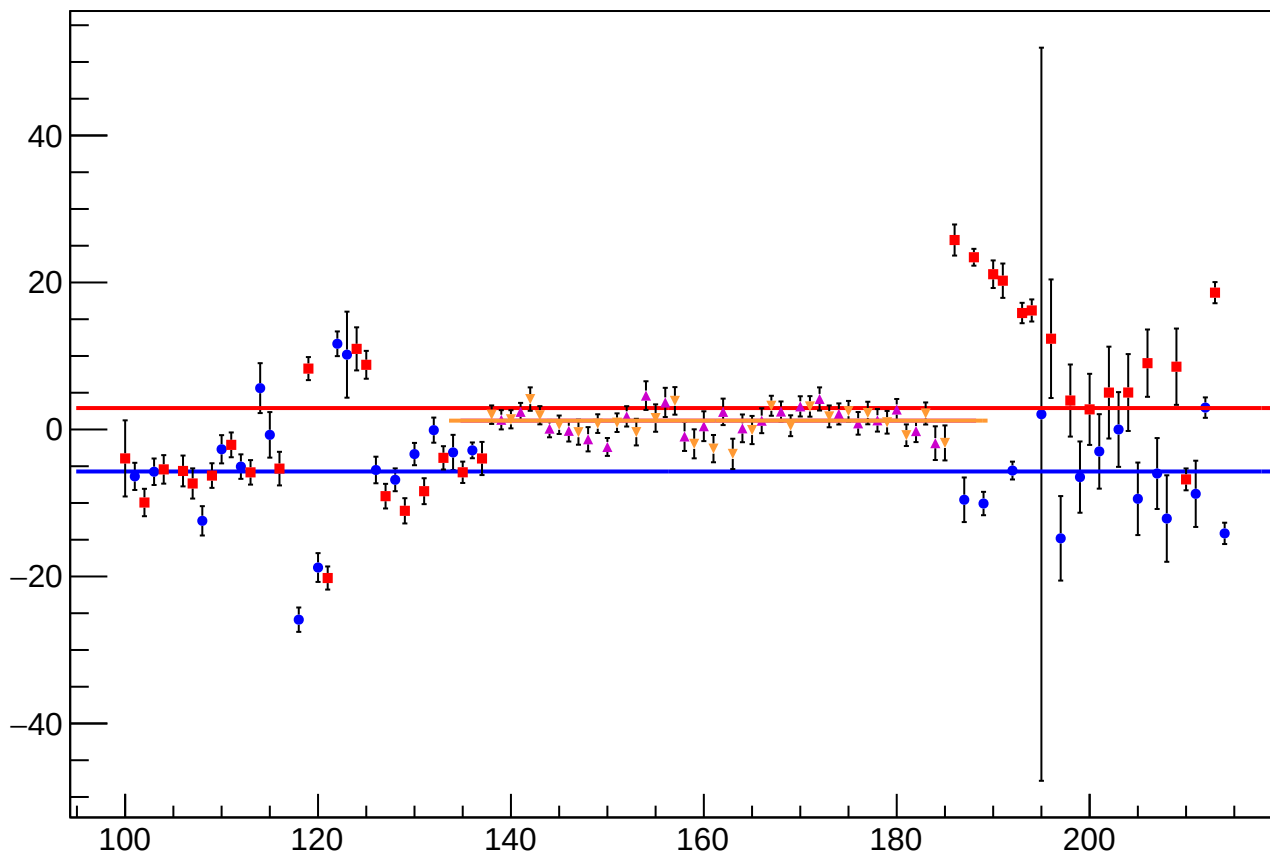
Right: 5915.601+/-0.768 χ^2/NDF : 7011211.2/64

In: 6700.581+/-0.858 χ^2/NDF : 6413057.8/53

Out: 6853.716+/-0.849 χ^2/NDF : 4544399.1/58

All: 6777.923+/-0.603 χ^2/NDF : 10973559.0/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.715±/0.360 χ^2/NDF : 444.9/30

Left Out: 1.203±/0.302 χ^2/NDF :29.9/24

Right Out: 2.914±/0.330 χ^2/NDF : 1574.7/33

Left In: 1.198±/0.318 χ^2/NDF :31.2/22

Left: 1.201±/0.219 χ^2/NDF : 61.1/47

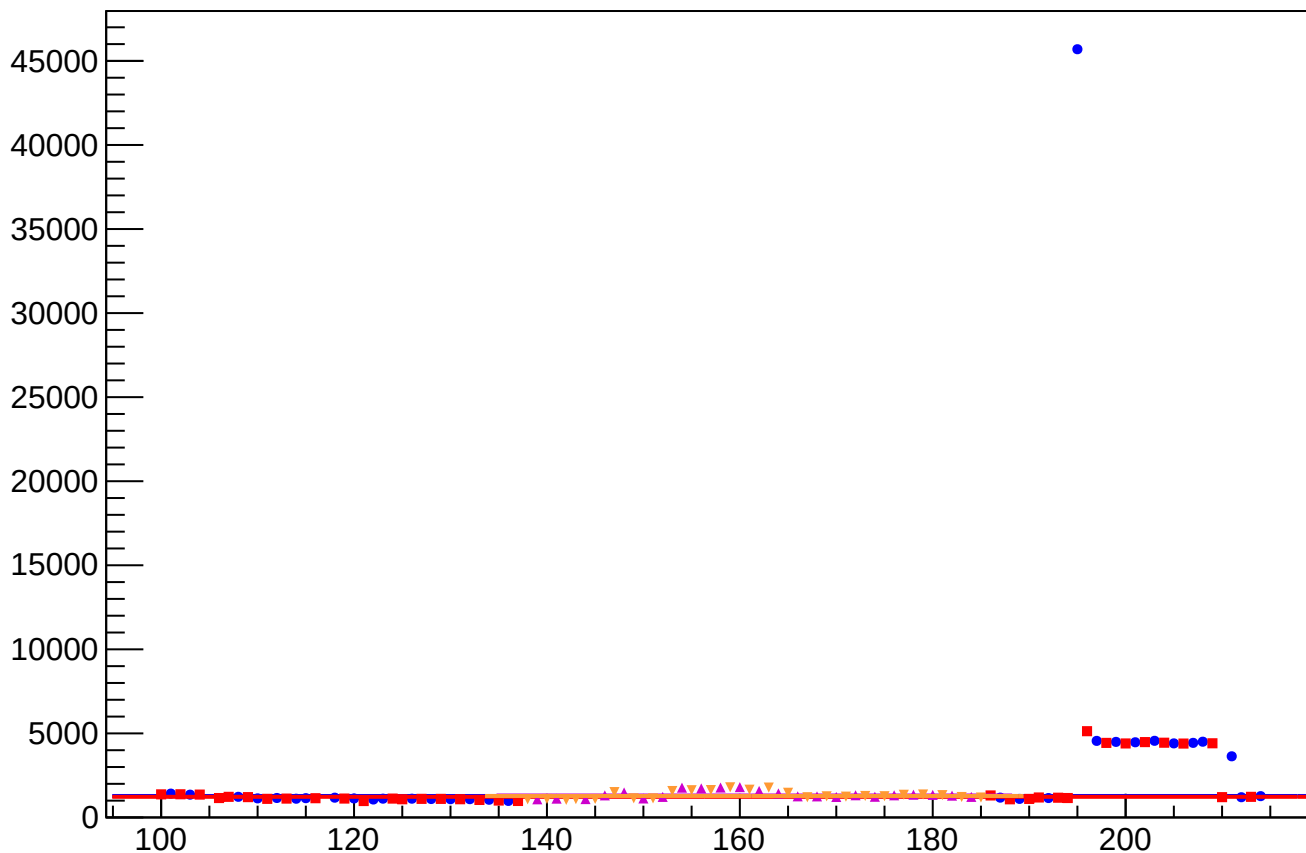
Right: -1.020±/0.243 χ^2/NDF : 2331.9/64

In: -1.832±/0.238 χ^2/NDF :682.9/53

Out: 1.985±/0.223 χ^2/NDF :1619.3/58

All: 0.205±/0.163 χ^2/NDF : 2439.0/112

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1277.093 $\pm$ 0.255 χ^2 /NDF: 7972626.2/30

Left Out: 1277.916 $\pm$ 0.214 χ^2 /NDF: 878127.9/24

Right Out: 1227.876 $\pm$ 0.233 χ^2 /NDF: 5501145.5/33

Left In: 1305.541 $\pm$ 0.225 χ^2 /NDF: 760450.8/22

Left: 1291.030 $\pm$ 0.155 χ^2 /NDF: 1646499.4/47

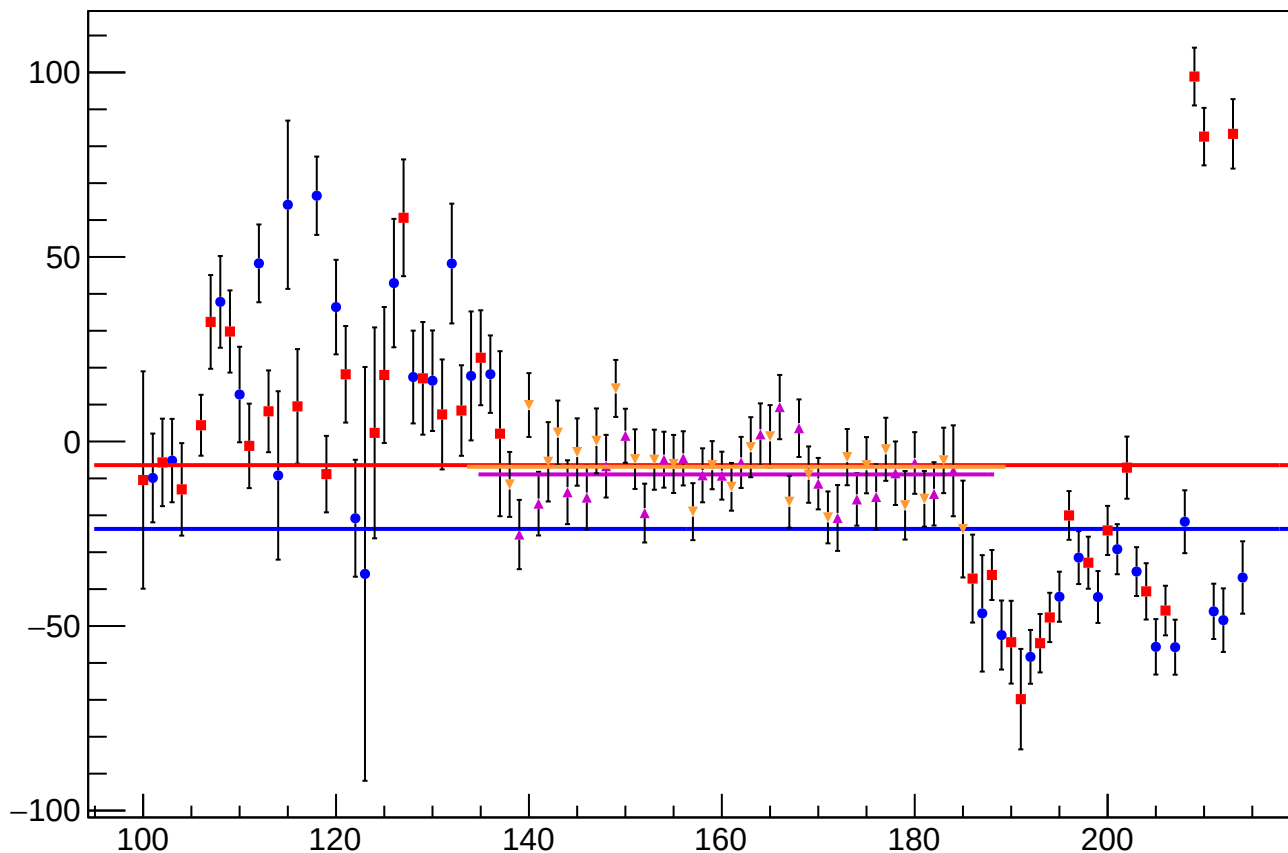
Right: 1250.313 $\pm$ 0.172 χ^2 /NDF: 13494097.0/64

In: 1293.071 $\pm$ 0.169 χ^2 /NDF: 8740086.1/53

Out: 1255.045 $\pm$ 0.158 χ^2 /NDF: 6404297.3/58

All: 1272.775 $\pm$ 0.115 χ^2 /NDF: 15171535.2/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -23.690 ± 1.762 $\chi^2/\text{NDF}: 376.9/30$

Left Out: -6.854 ± 1.616 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -6.408 ± 1.681 $\chi^2/\text{NDF}: 681.9/33$

Left In: -8.923 ± 1.674 $\chi^2/\text{NDF}: 21.8/22$

Left: -7.852 ± 1.163 $\chi^2/\text{NDF}: 51.3/47$

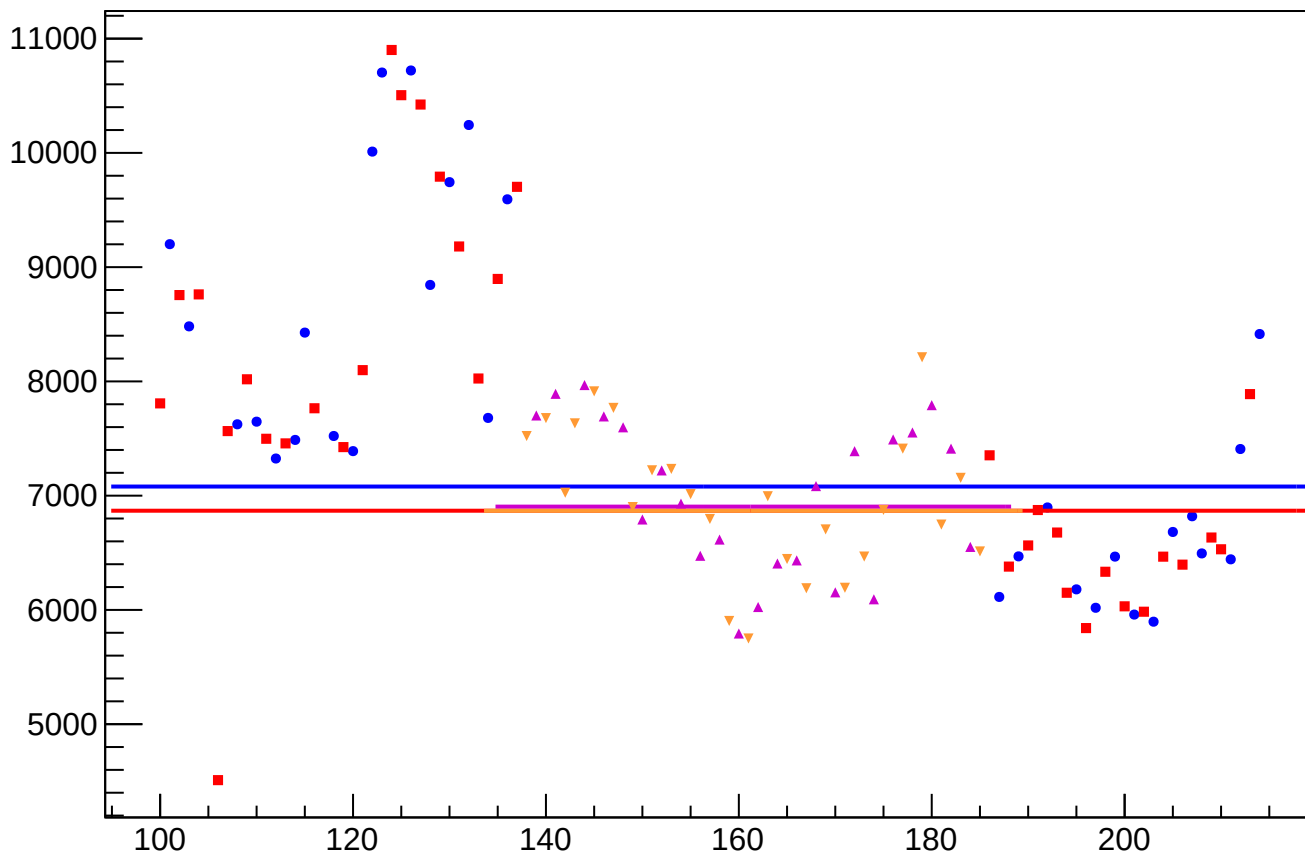
Right: -14.638 ± 1.216 $\chi^2/\text{NDF}: 1109.2/64$

In: -15.928 ± 1.214 $\chi^2/\text{NDF}: 435.7/53$

Out: -6.640 ± 1.165 $\chi^2/\text{NDF}: 710.6/58$

All: -11.092 ± 0.840 $\chi^2/\text{NDF}: 1176.8/112$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7079.834 $\pm$ 1.246 χ^2 /NDF: 889603.3/30

Left Out: 6867.371 $\pm$ 1.142 χ^2 /NDF:306895.0/24

Right Out: 6868.254 $\pm$ 1.188 χ^2 /NDF: 968536.7/33

Left In: 6904.117 $\pm$ 1.184 χ^2 /NDF:325912.6/22

Left: 6885.088 $\pm$ 0.822 χ^2 /NDF: 633306.5/47

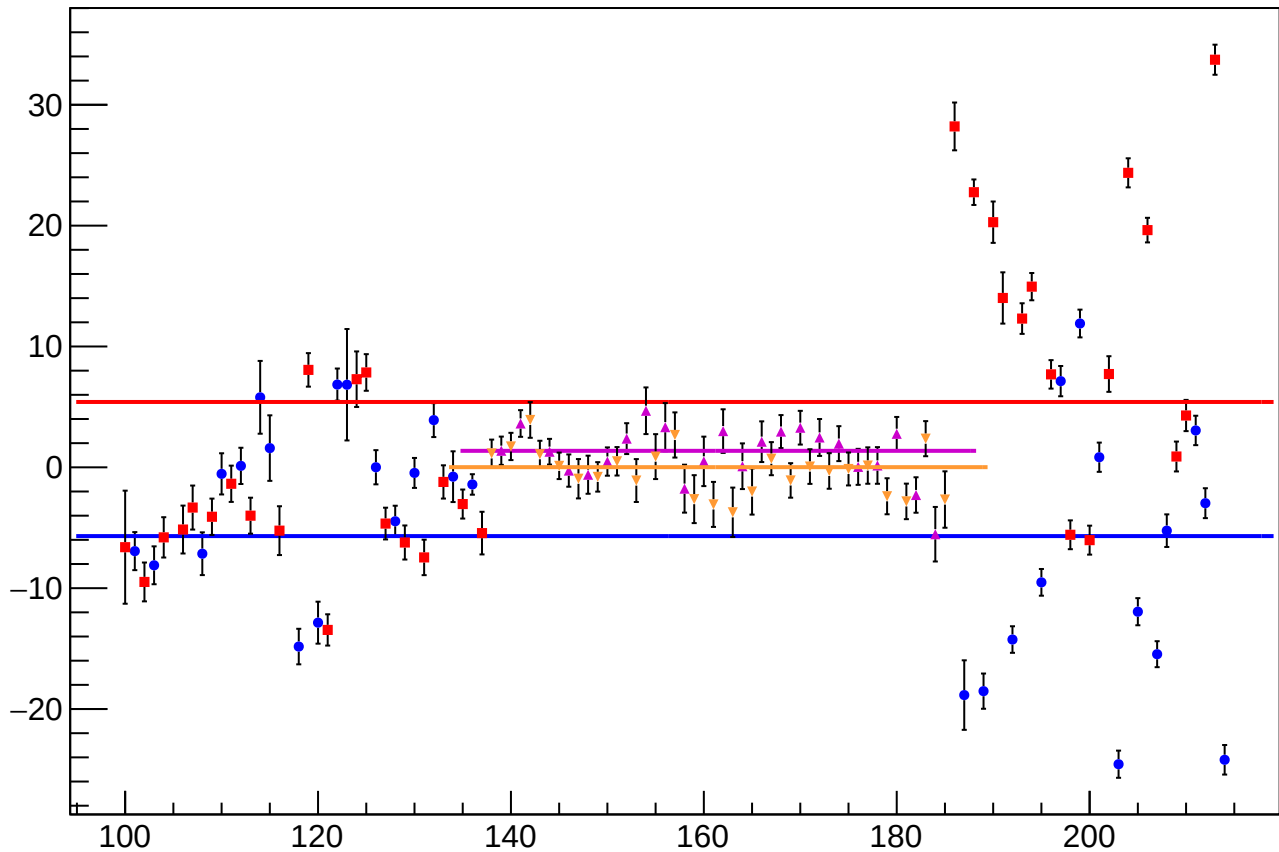
Right: 6969.018 $\pm$ 0.860 χ^2 /NDF: 1873238.6/64

In: 6987.479 $\pm$ 0.858 χ^2 /NDF:1225966.3/53

Out: 6867.795 $\pm$ 0.824 χ^2 /NDF:1275432.0/58

All: 6925.163 $\pm$ 0.594 χ^2 /NDF: 2511522.1/111

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -5.690 ± 0.244 $\chi^2/\text{NDF}: 1534.9/30$

Left Out: 0.014 ± 0.290 $\chi^2/\text{NDF}: 35.0/24$

Right Out: 5.409 ± 0.242 $\chi^2/\text{NDF}: 2604.0/33$

Left In: 1.365 ± 0.306 $\chi^2/\text{NDF}: 38.5/22$

Left: 0.654 ± 0.210 $\chi^2/\text{NDF}: 83.8/47$

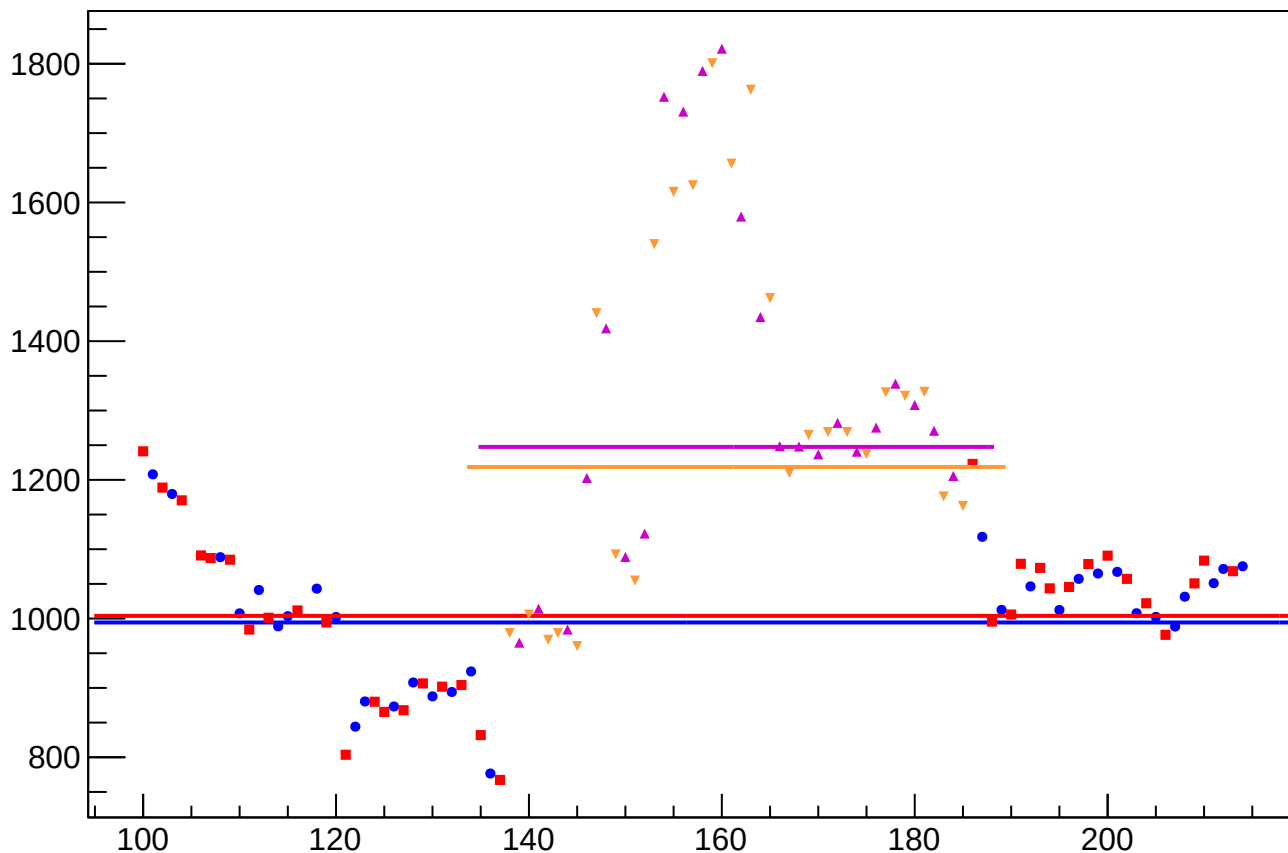
Right: -0.099 ± 0.172 $\chi^2/\text{NDF}: 5179.5/64$

In: -2.939 ± 0.191 $\chi^2/\text{NDF}: 1898.8/53$

Out: 3.189 ± 0.186 $\chi^2/\text{NDF}: 2842.8/58$

All: 0.203 ± 0.133 $\chi^2/\text{NDF}: 5271.0/112$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 994.361 ± 0.173 $\chi^2/\text{NDF}: 336340.4/30$

Left Out: 1218.543 ± 0.205 $\chi^2/\text{NDF}: 1265847.5/24$

Right Out: 1003.885 ± 0.171 $\chi^2/\text{NDF}: 341275.7/33$

Left In: 1247.538 ± 0.216 $\chi^2/\text{NDF}: 1073390.3/22$

Left: 1232.283 ± 0.149 $\chi^2/\text{NDF}: 2348717.2/47$

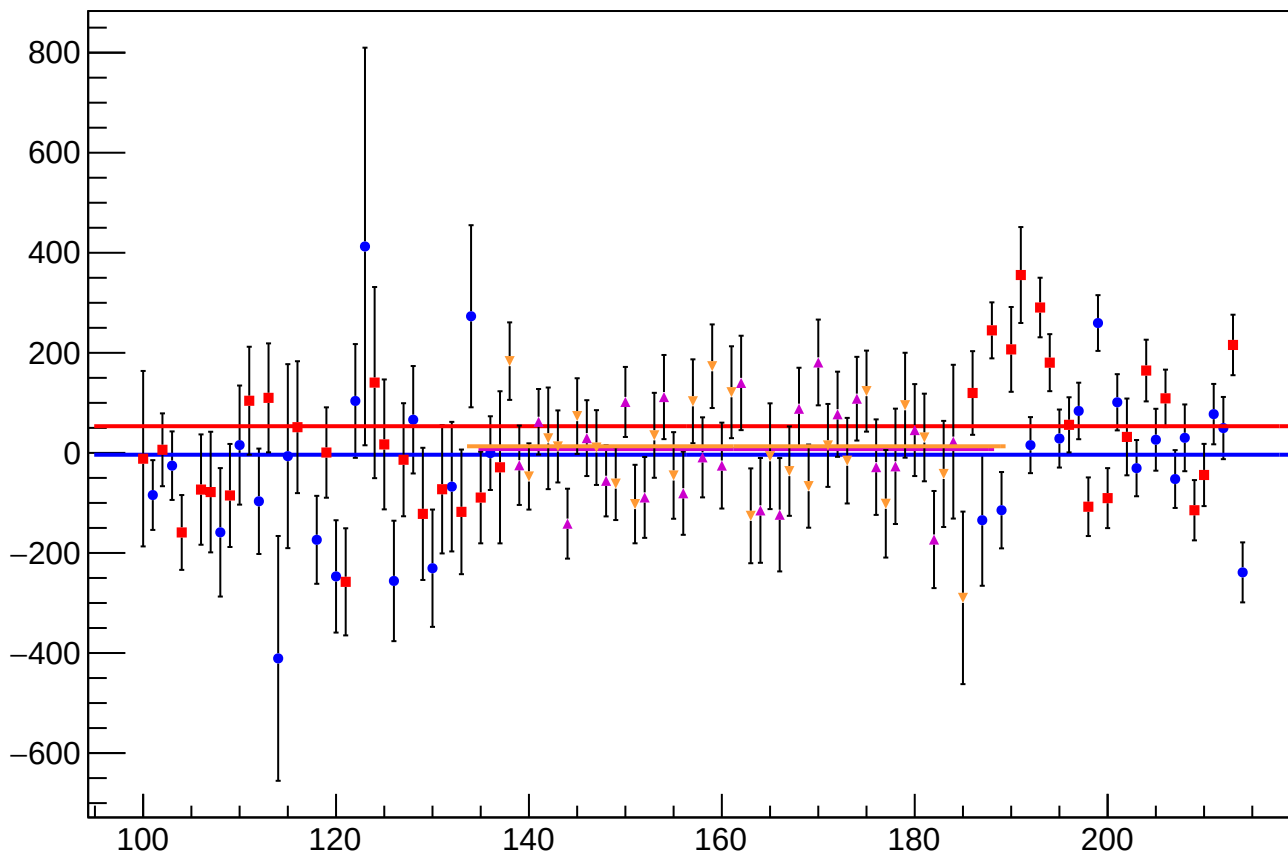
Right: 999.158 ± 0.122 $\chi^2/\text{NDF}: 679148.6/64$

In: 1093.060 ± 0.135 $\chi^2/\text{NDF}: 2247840.1/53$

Out: 1092.192 ± 0.131 $\chi^2/\text{NDF}: 2252459.1/58$

All: 1092.615 ± 0.094 $\chi^2/\text{NDF}: 4500320.5/111$

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -3.675 $\pm$ 13.877 χ^2/NDF : 79.1/30

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF : 26.8/24

Right Out: 53.343 $\pm$ 13.688 χ^2/NDF : 111.6/33

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

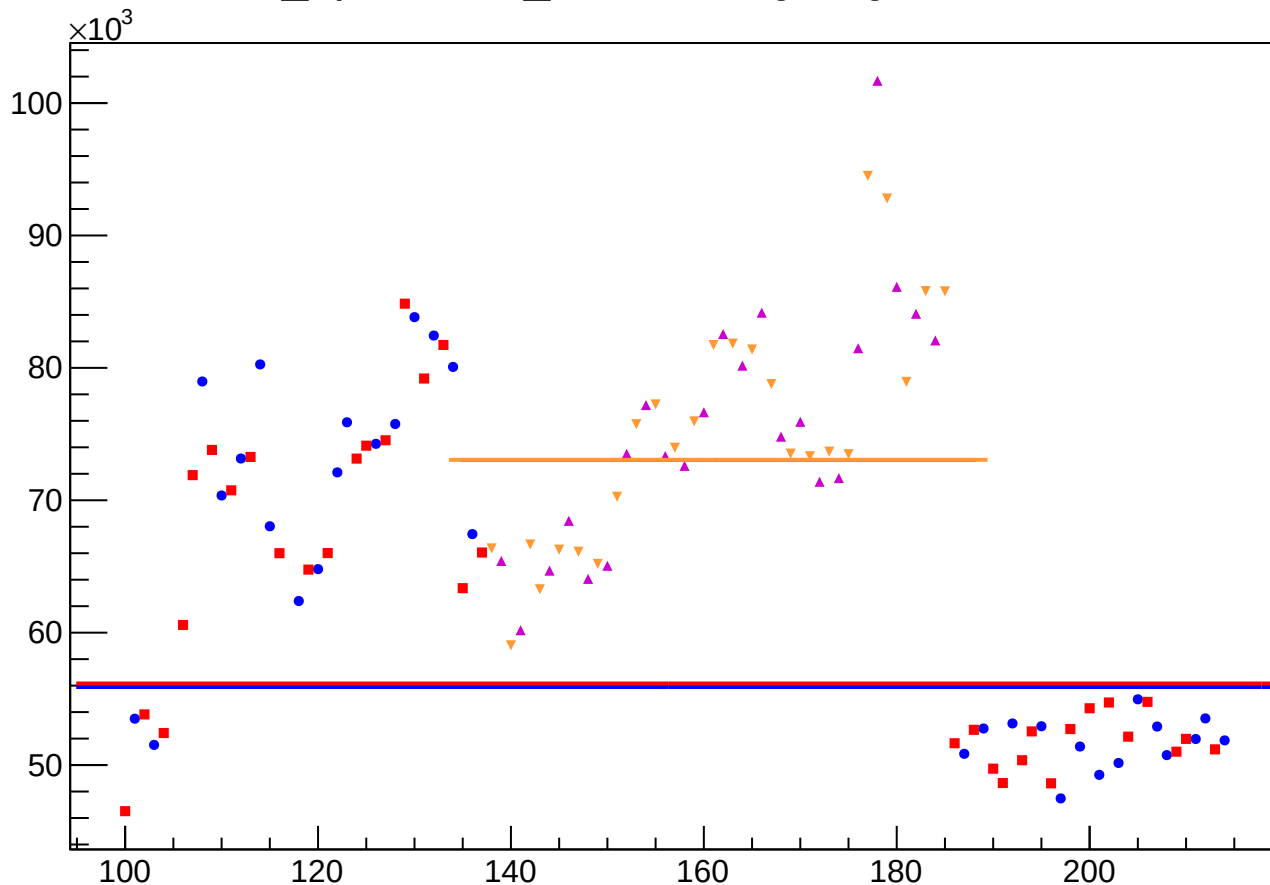
Right: 25.224 $\pm$ 9.745 χ^2/NDF : 199.3/64

In: 0.633 $\pm$ 10.914 χ^2/NDF : 107.5/53

Out: 37.719 $\pm$ 10.698 χ^2/NDF : 141.8/58

All: 19.548 $\pm$ 7.640 χ^2/NDF : 255.1/112

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 55897.431 $\pm$ 9.813 χ^2/NDF : 813898.4/30

Left Out: 73054.401 $\pm$ 12.124 χ^2/NDF : 473050.9/24

Right Out: 56159.936 $\pm$ 9.679 χ^2/NDF : 770527.2/33

Left In: 73045.500 $\pm$ 12.496 χ^2/NDF : 463525.5/22

Left: 73050.085 $\pm$ 8.701 χ^2/NDF : 936576.6/47

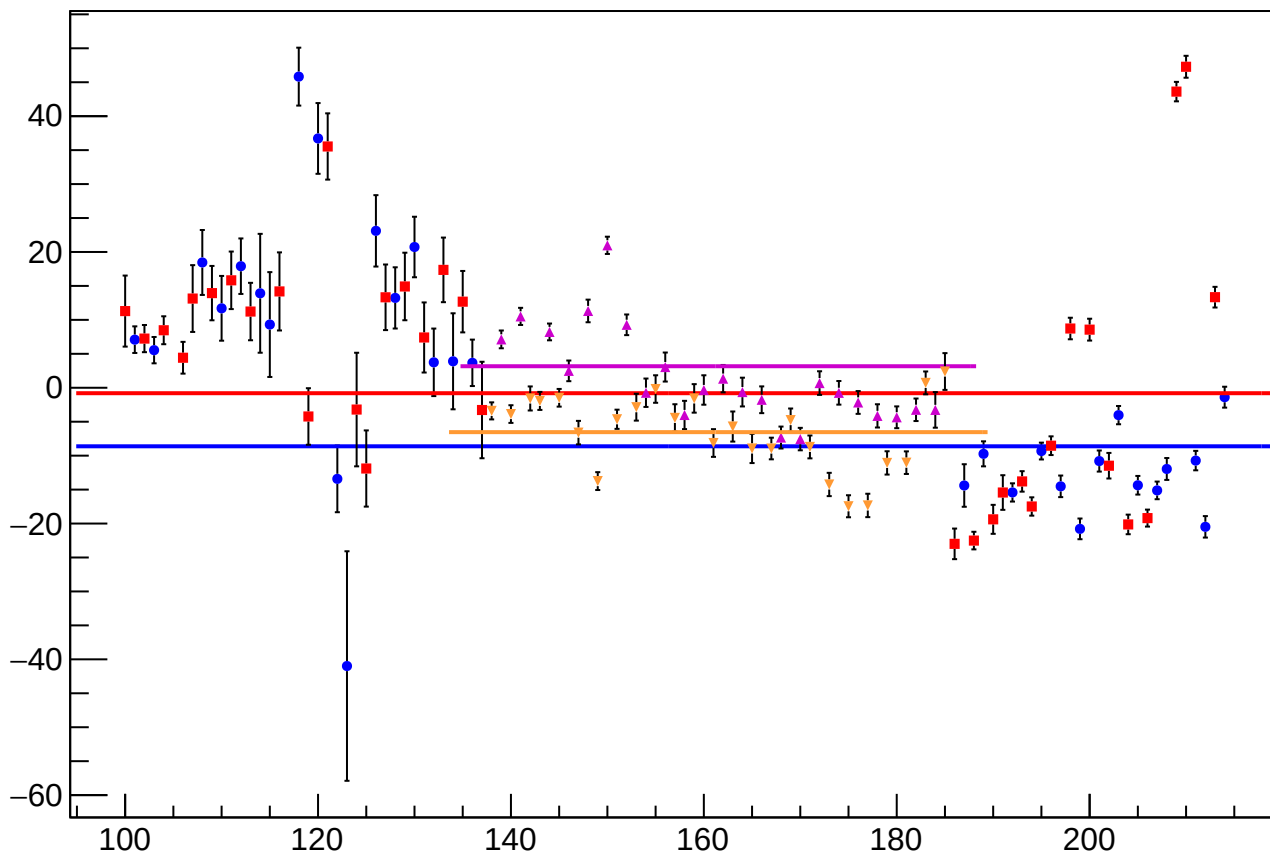
Right: 56030.478 $\pm$ 6.891 χ^2/NDF : 1584788.4/64

In: 62438.331 $\pm$ 7.717 χ^2/NDF : 2442335.9/53

Out: 62736.227 $\pm$ 7.564 χ^2/NDF : 2429466.8/58

All: 62590.263 $\pm$ 5.402 χ^2/NDF : 4872562.6/111

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.622 ± 0.369 $\chi^2/\text{NDF}: 838.6/30$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -0.802 ± 0.365 $\chi^2/\text{NDF}: 3380.6/33$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$

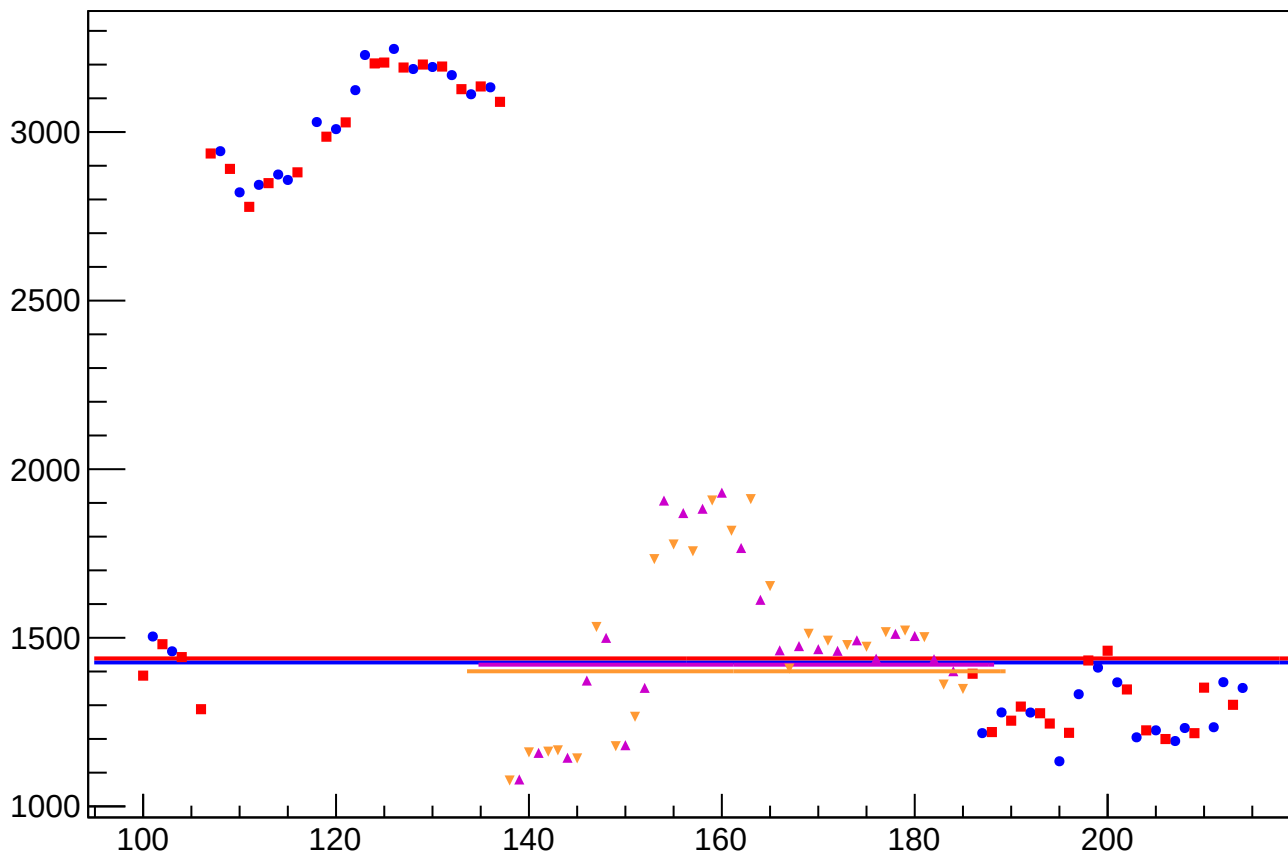
Right: -4.669 ± 0.260 $\chi^2/\text{NDF}: 4446.0/64$

In: -2.351 ± 0.253 $\chi^2/\text{NDF}: 1868.4/53$

Out: -3.943 ± 0.246 $\chi^2/\text{NDF}: 3768.4/58$

All: -3.170 ± 0.176 $\chi^2/\text{NDF}: 5657.3/112$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1426.888 $\pm$ 0.261 χ^2 /NDF: 3585195.6/30

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF:1037921.6/24

Right Out: 1438.844 $\pm$ 0.258 χ^2 /NDF: 3553953.0/33

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF:905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

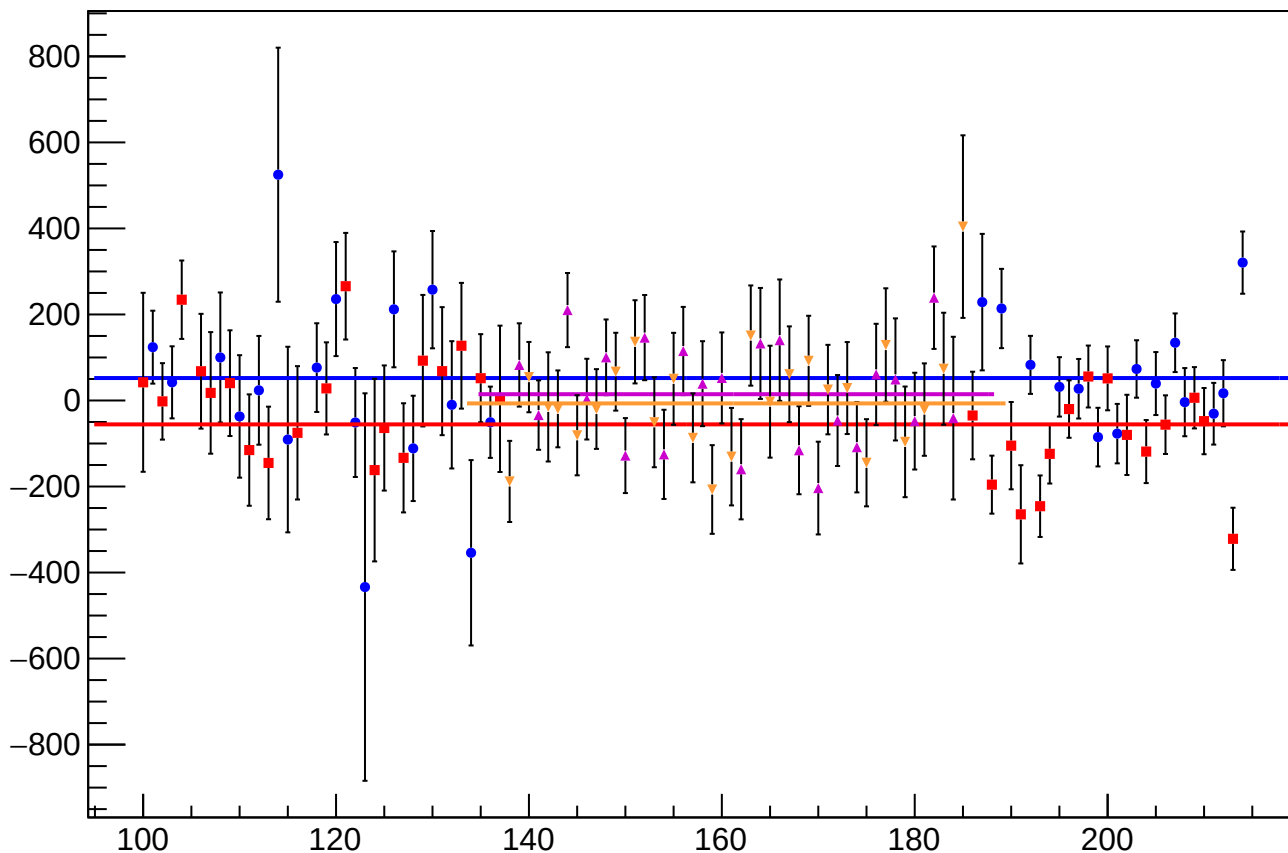
Right: 1432.932 $\pm$ 0.184 χ^2 /NDF: 7140208.8/64

In: 1423.376 $\pm$ 0.179 χ^2 /NDF:4490722.0/53

Out: 1417.916 $\pm$ 0.174 χ^2 /NDF:4603867.6/58

All: 1420.569 $\pm$ 0.125 χ^2 /NDF: 9095069.8/11

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 52.171 $\pm$ 16.584 χ^2 /NDF: 48.5/30

Left Out: -6.789 $\pm$ 21.213 χ^2 /NDF:24.7/24

Right Out: -55.533 $\pm$ 16.399 χ^2 /NDF: 61.4/33

Left In: 14.611 $\pm$ 21.846 χ^2 /NDF:29.8/22

Left: 3.596 $\pm$ 15.219 χ^2 /NDF: 55.0/47

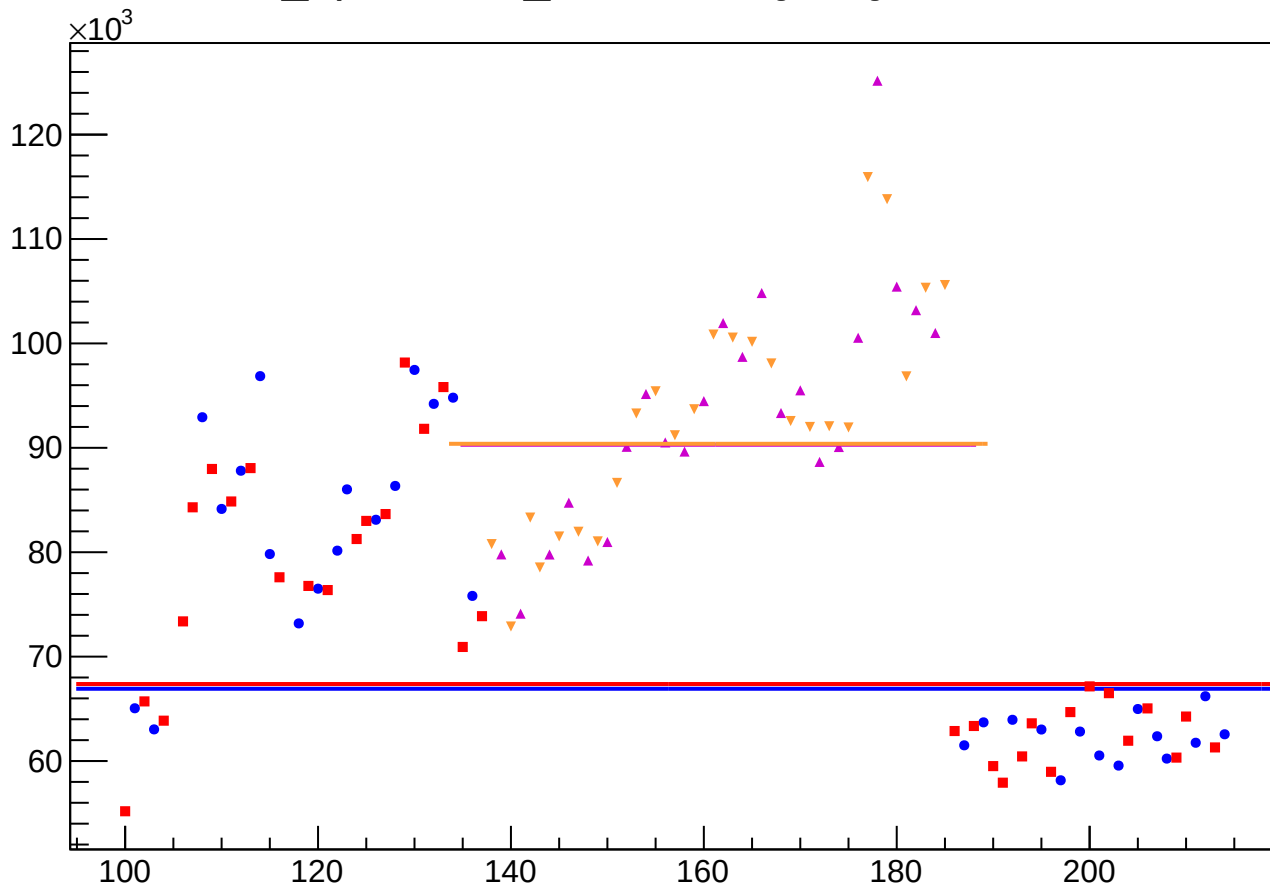
Right: -2.285 $\pm$ 11.661 χ^2 /NDF: 131.2/64

In: 38.439 $\pm$ 13.209 χ^2 /NDF:80.2/53

Out: -37.299 $\pm$ 12.974 χ^2 /NDF:89.4/58

All: -0.110 $\pm$ 9.256 χ^2 /NDF: 186.3/112

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 66921.288 ± 11.727 $\chi^2/\text{NDF}: 661555.4/30$

Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$

Right Out: 67375.354 ± 11.596 $\chi^2/\text{NDF}: 647684.2/33$

Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761 $\chi^2/\text{NDF}: 923003.7/47$

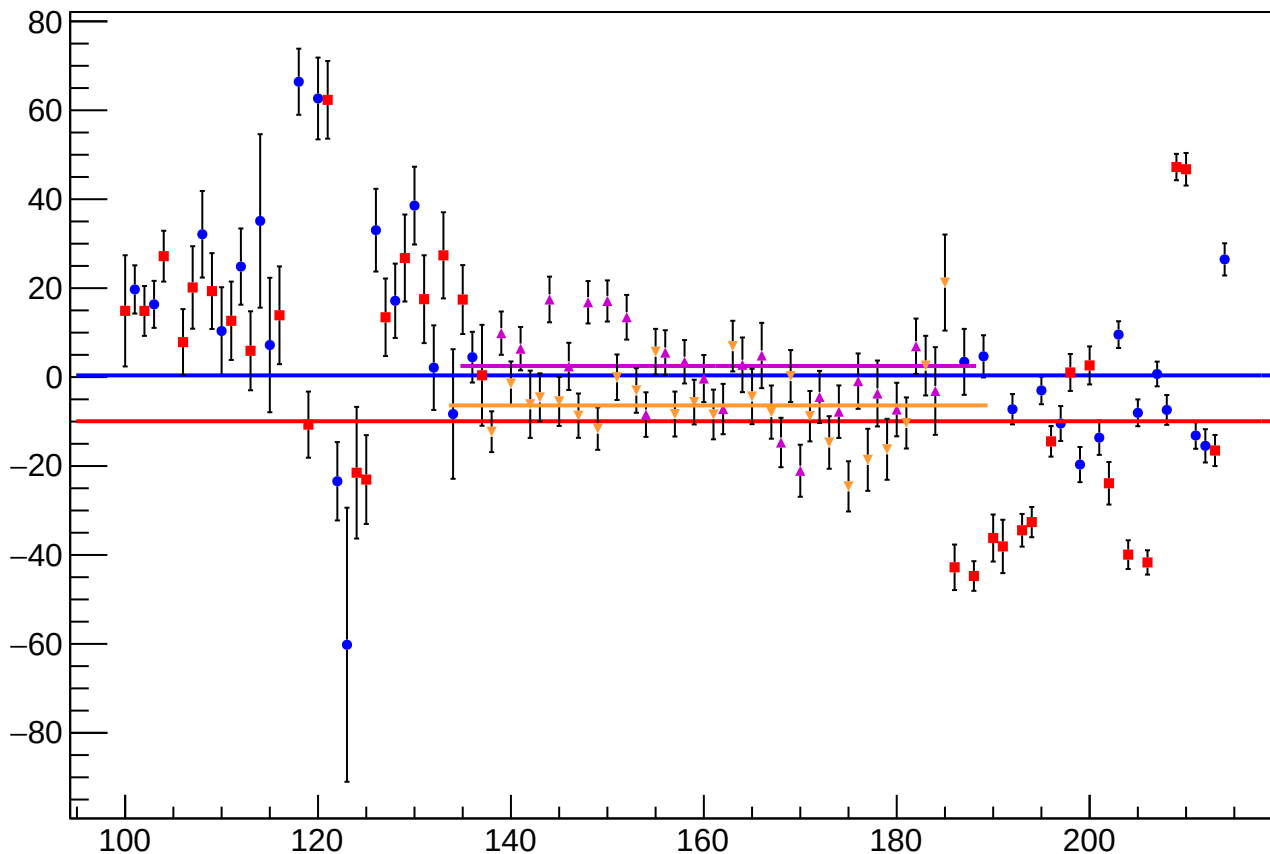
Right: 67150.870 ± 8.245 $\chi^2/\text{NDF}: 1309997.7/64$

In: 75466.092 ± 9.340 $\chi^2/\text{NDF}: 2575173.8/53$

Out: 75982.434 ± 9.174 $\chi^2/\text{NDF}: 2582198.0/58$

All: 75728.897 ± 6.545 $\chi^2/\text{NDF}: 5158927.2/113$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.384 ± 0.849 χ^2/NDF : 383.6/30

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: -9.927 ± 0.859 χ^2/NDF : 1383.2/33

Left In: 2.501 ± 1.156 χ^2/NDF : 78.4/22

Left: -2.059 ± 0.806 χ^2/NDF : 154.1/47

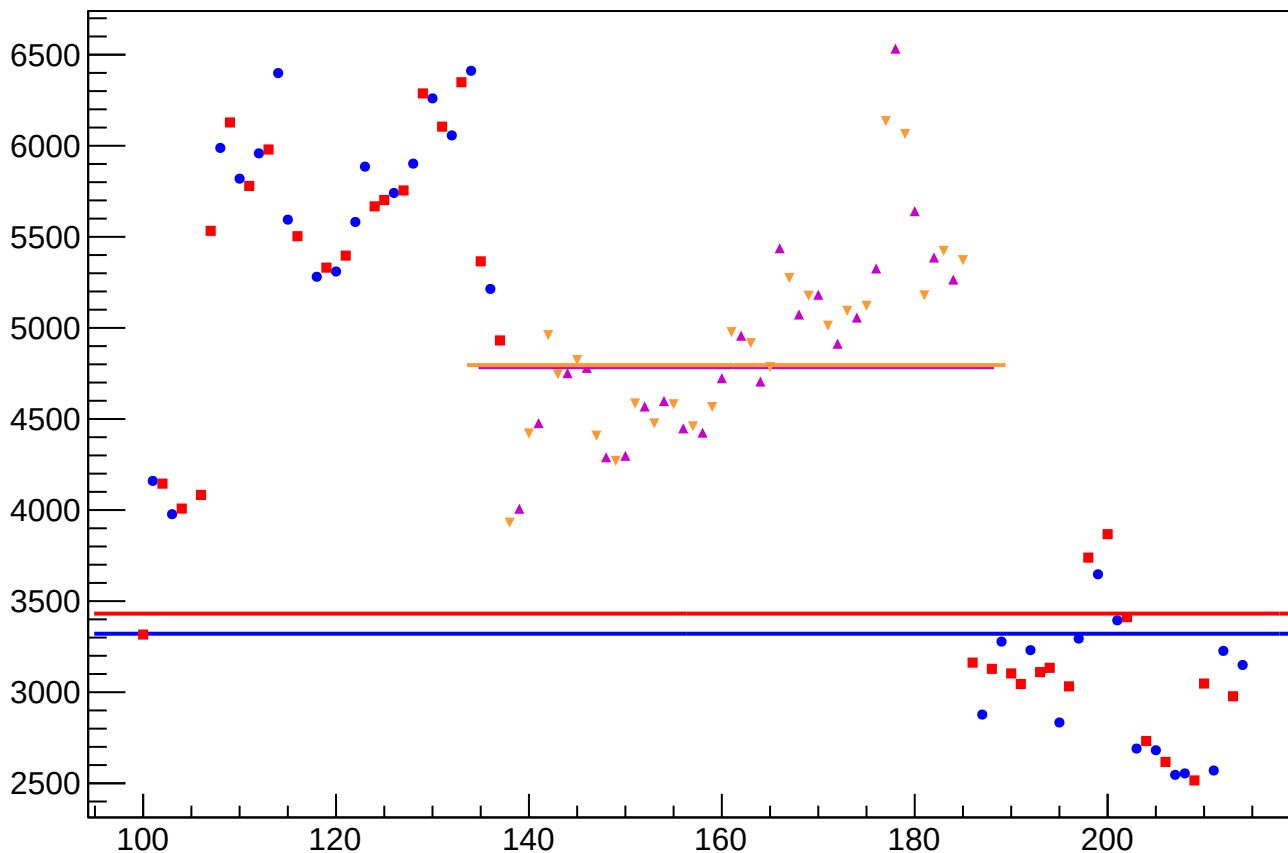
Right: -4.708 ± 0.604 χ^2/NDF : 1839.7/64

In: 1.125 ± 0.684 χ^2/NDF : 464.2/53

Out: -8.615 ± 0.683 χ^2/NDF : 1434.9/58

All: -3.755 ± 0.483 χ^2/NDF : 2000.7/112

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3321.069 ± 0.600 $\chi^2/\text{NDF}: 2690688.1/30$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3431.606 ± 0.608 $\chi^2/\text{NDF}: 2574535.6/33$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

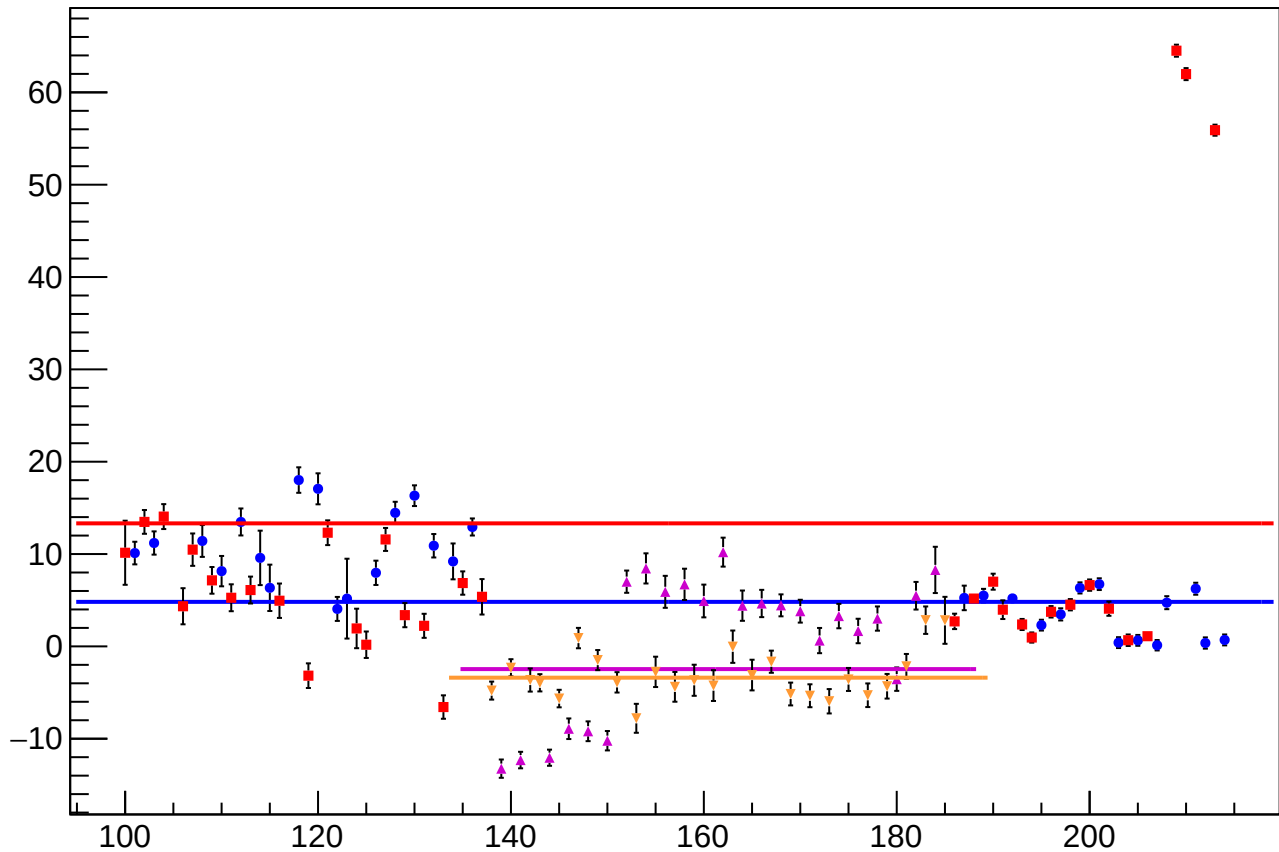
Right: 3375.652 ± 0.427 $\chi^2/\text{NDF}: 5281973.5/64$

In: 3833.692 ± 0.484 $\chi^2/\text{NDF}: 5130726.0/53$

Out: 3934.957 ± 0.483 $\chi^2/\text{NDF}: 4795463.1/58$

All: 3884.435 ± 0.342 $\chi^2/\text{NDF}: 9948145.7/11$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 4.821 ± 0.151 $\chi^2/\text{NDF}: 847.8/30$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 13.323 ± 0.149 $\chi^2/\text{NDF}: 20616.4/33$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

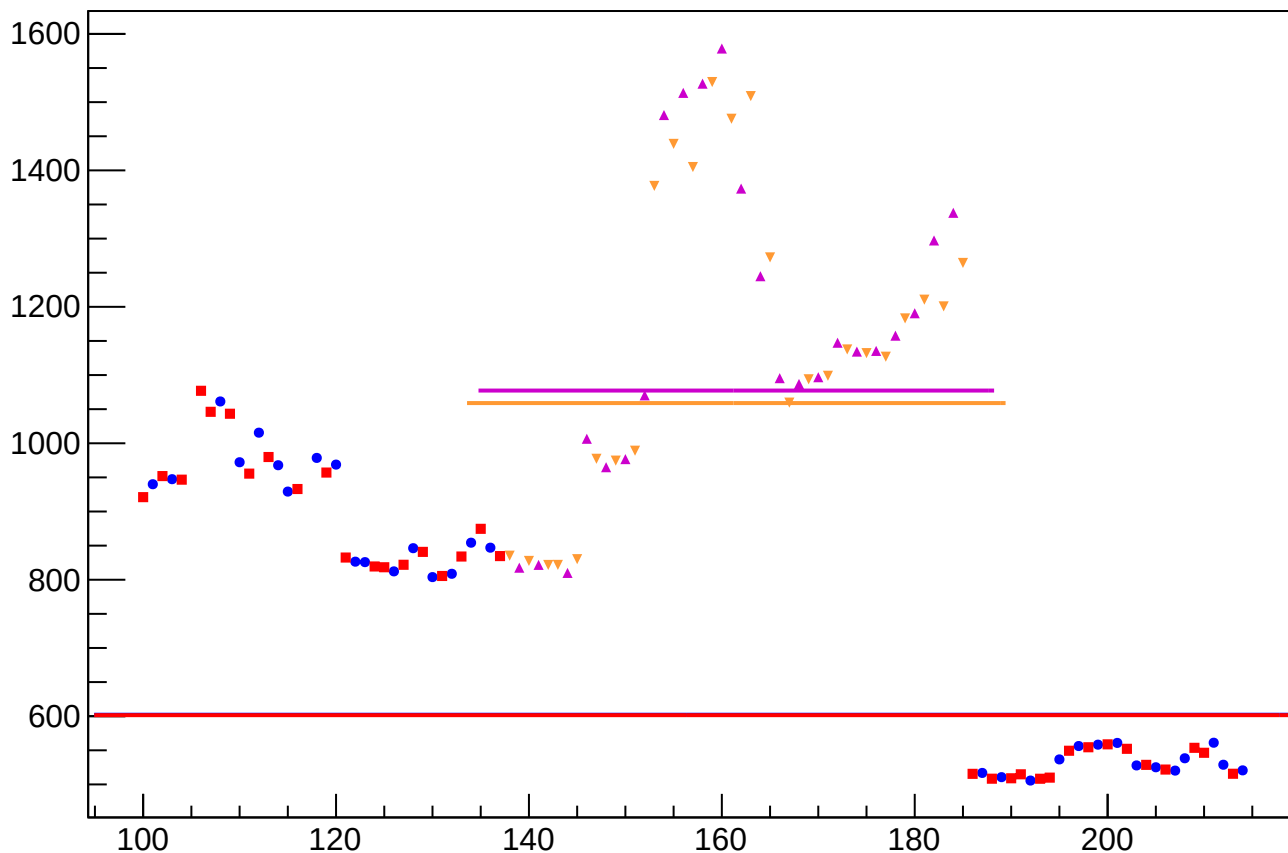
Right: 9.139 ± 0.106 $\chi^2/\text{NDF}: 23066.4/64$

In: 3.023 ± 0.131 $\chi^2/\text{NDF}: 2347.0/53$

Out: 9.000 ± 0.128 $\chi^2/\text{NDF}: 23948.3/58$

All: 6.082 ± 0.092 $\chi^2/\text{NDF}: 27355.0/112$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 602.128+/-0.107 χ^2/NDF : 1863180.5/30

Left Out: 1058.941+/-0.178 χ^2/NDF :1403222.2/24

Right Out: 601.515+/-0.105 χ^2/NDF : 2085760.4/33

Left In: 1077.284+/-0.187 χ^2/NDF :1280349.9/22

Left: 1067.683+/-0.129 χ^2/NDF : 2688612.0/47

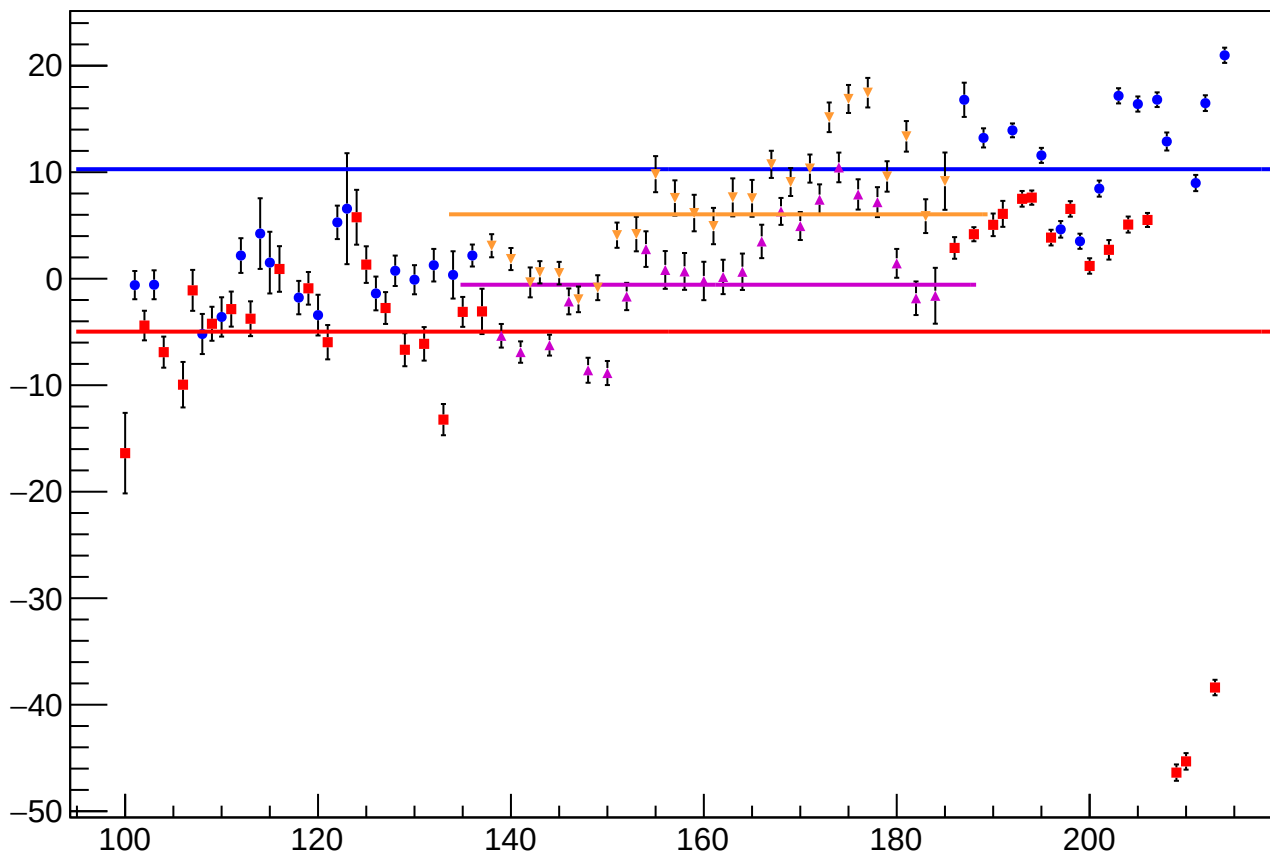
Right: 601.817+/-0.075 χ^2/NDF : 3948957.5/64

In: 719.459+/-0.093 χ^2/NDF :8009045.3/53

Out: 719.828+/-0.091 χ^2/NDF :8364481.8/58

All: 719.648+/-0.065 χ^2/NDF : 16373535.2/111

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 10.282 $\pm$ 0.180 χ^2/NDF : 1459.5/30

Left Out: 6.045 $\pm$ 0.272 χ^2/NDF :430.8/24

Right Out: -4.969 $\pm$ 0.178 χ^2/NDF : 9854.6/33

Left In: -0.566 $\pm$ 0.284 χ^2/NDF :417.0/22

Left: 2.888 $\pm$ 0.196 χ^2/NDF : 1130.7/47

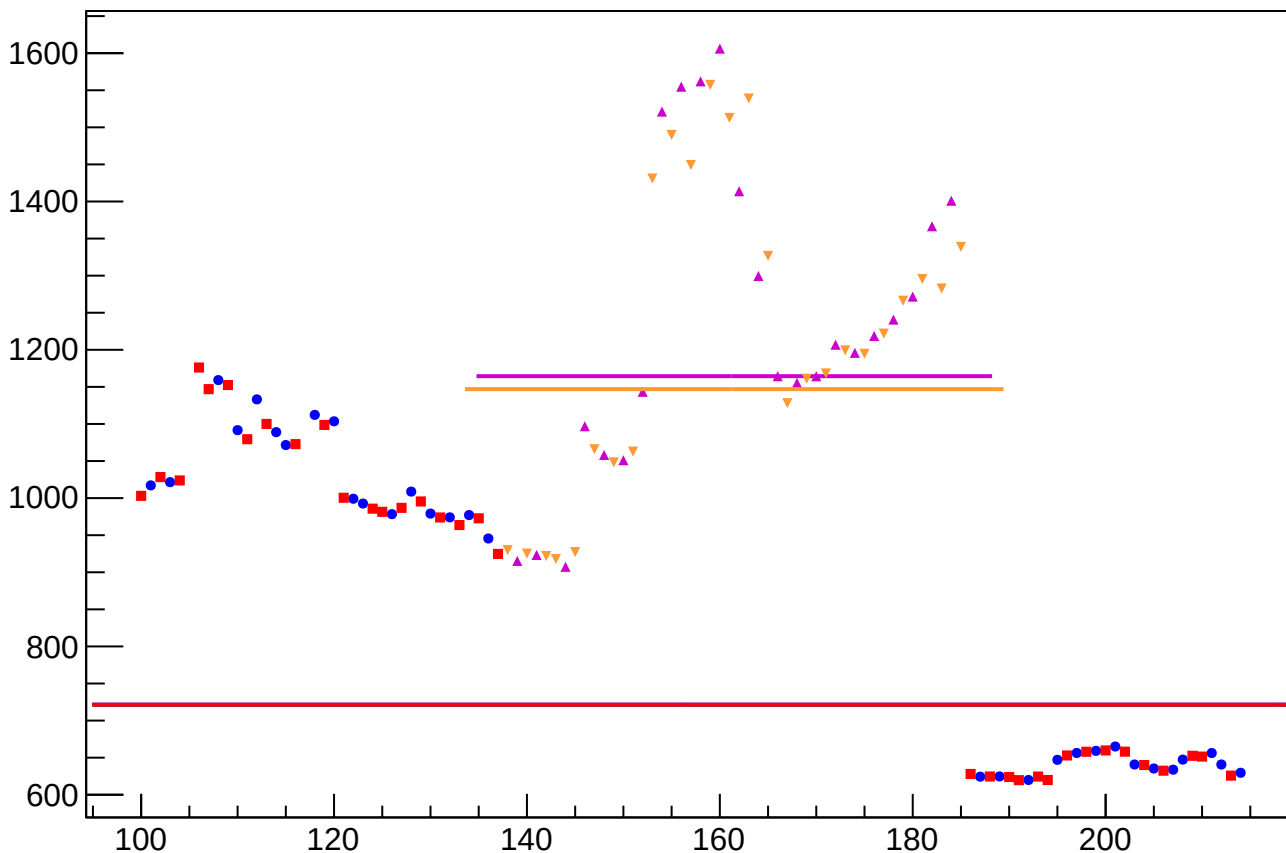
Right: 2.537 $\pm$ 0.127 χ^2/NDF : 14940.3/64

In: 7.163 $\pm$ 0.152 χ^2/NDF :2915.1/53

Out: -1.669 $\pm$ 0.149 χ^2/NDF :11436.7/58

All: 2.640 $\pm$ 0.106 χ^2/NDF : 16073.2/112

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 721.443 $\pm$ 0.128 χ^2 /NDF: 1534366.1/30

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 721.408 $\pm$ 0.126 χ^2 /NDF: 1701195.4/33

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

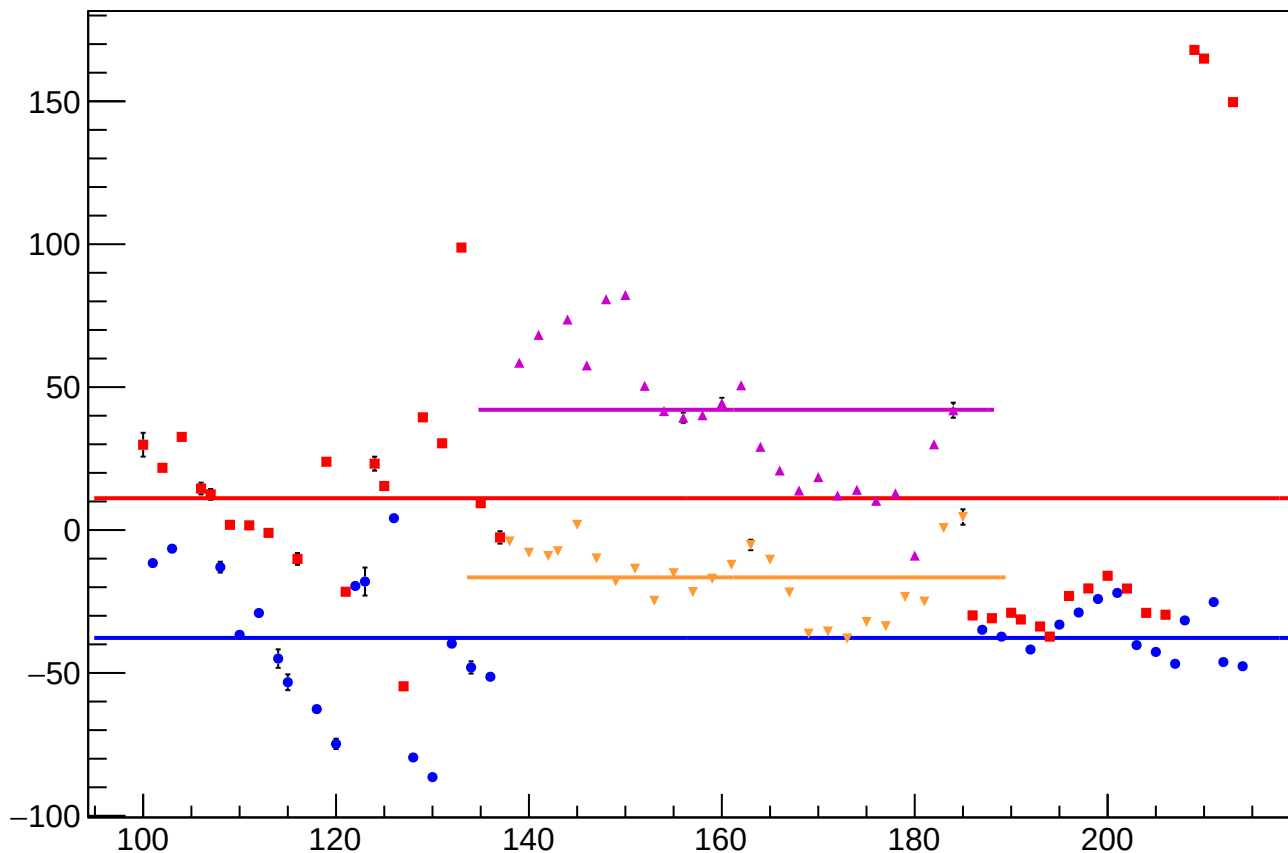
Right: 721.425 $\pm$ 0.090 χ^2 /NDF: 3235561.5/64

In: 848.798 $\pm$ 0.108 χ^2 /NDF:5942630.0/53

Out: 848.907 $\pm$ 0.105 χ^2 /NDF:6184015.6/58

All: 848.854 $\pm$ 0.075 χ^2 /NDF: 12126646.0/111

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.742 ± 0.178 $\chi^2/\text{NDF}: 7132.0/30$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 11.134 ± 0.175 $\chi^2/\text{NDF}: 155352.7/33$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

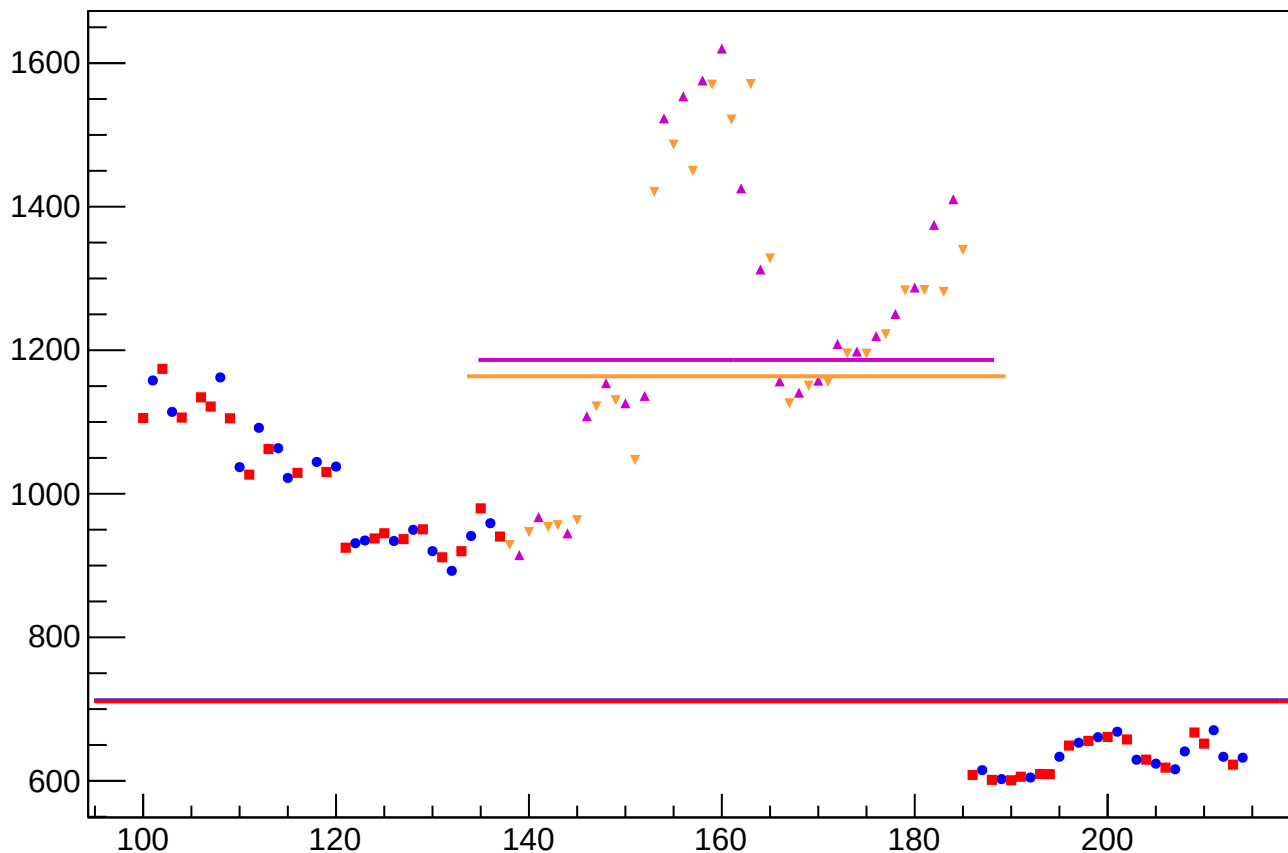
Right: -12.882 ± 0.125 $\chi^2/\text{NDF}: 200788.5/64$

In: -15.781 ± 0.152 $\chi^2/\text{NDF}: 70722.7/53$

Out: 3.157 ± 0.148 $\chi^2/\text{NDF}: 164494.9/58$

All: -6.064 ± 0.106 $\chi^2/\text{NDF}: 243220.7/112$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 712.173+/-0.126 χ^2/NDF : 1531037.5/30

Left Out: 1163.691+/-0.195 χ^2/NDF : 936079.1/24

Right Out: 710.994+/-0.124 χ^2/NDF : 1693760.4/33

Left In: 1186.476+/-0.204 χ^2/NDF : 833420.3/22

Left: 1174.525+/-0.141 χ^2/NDF : 1776015.7/47

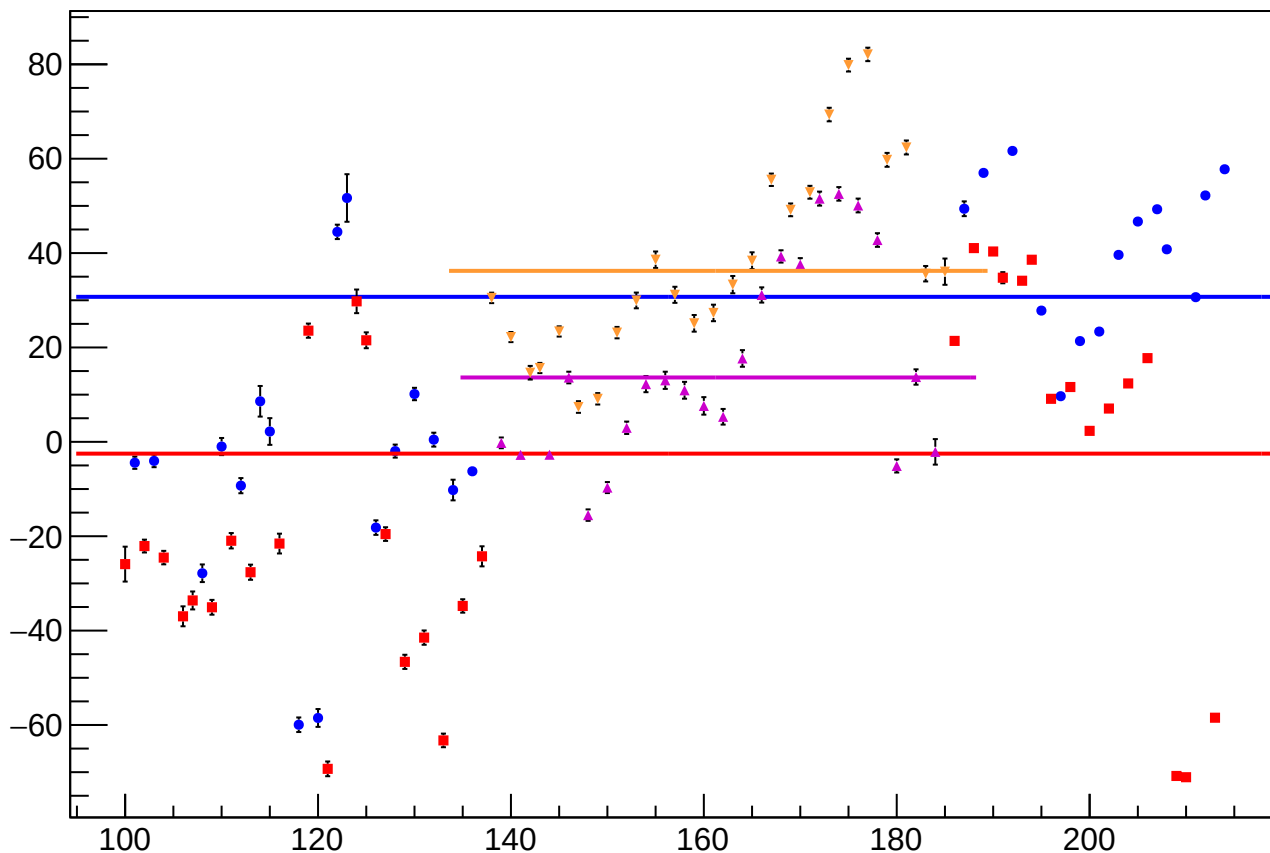
Right: 711.573+/-0.088 χ^2/NDF : 3224842.5/64

In: 842.670+/-0.107 χ^2/NDF : 6266813.5/53

Out: 841.363+/-0.104 χ^2/NDF : 6481504.2/58

All: 841.999+/-0.075 χ^2/NDF : 12748393.9/111

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 30.728 $\pm$ 0.176 χ^2 /NDF: 21630.2/30

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF: 5794.2/24

Right Out: -2.498 $\pm$ 0.173 χ^2 /NDF: 48029.4/33

Left In: 13.640 $\pm$ 0.293 χ^2 /NDF: 5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2 /NDF: 14084.0/47

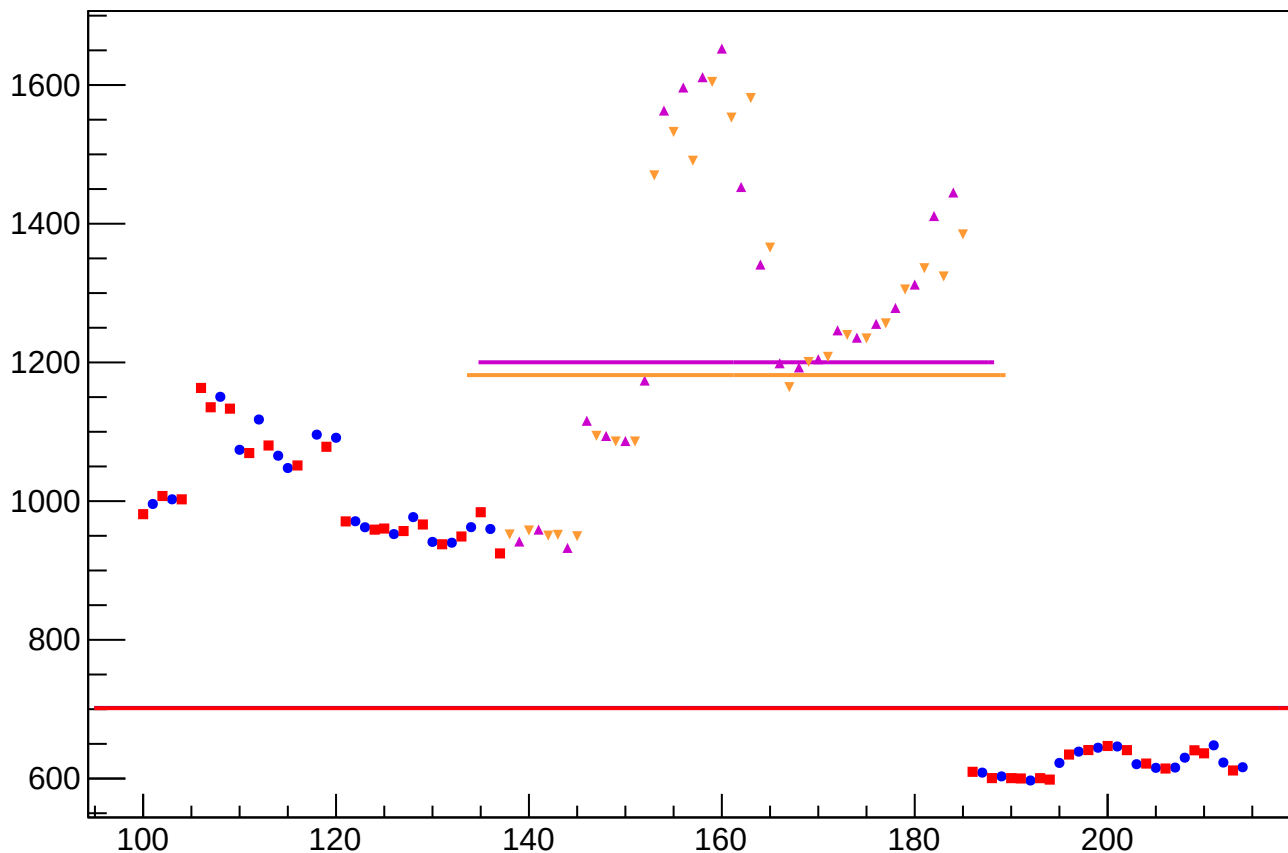
Right: 13.850 $\pm$ 0.123 χ^2 /NDF: 87824.7/64

In: 26.203 $\pm$ 0.151 χ^2 /NDF: 29312.4/53

Out: 8.203 $\pm$ 0.147 χ^2 /NDF: 67684.6/58

All: 16.989 $\pm$ 0.105 χ^2 /NDF: 104305.0/112

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 701.811 $\pm$ 0.124 χ^2 /NDF: 1601211.0/30

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 701.498 $\pm$ 0.122 χ^2 /NDF: 1773993.2/33

Left In: 1200.198 $\pm$ 0.207 χ^2 /NDF:938224.7/22

Left: 1190.549 $\pm$ 0.143 χ^2 /NDF: 1985902.3/47

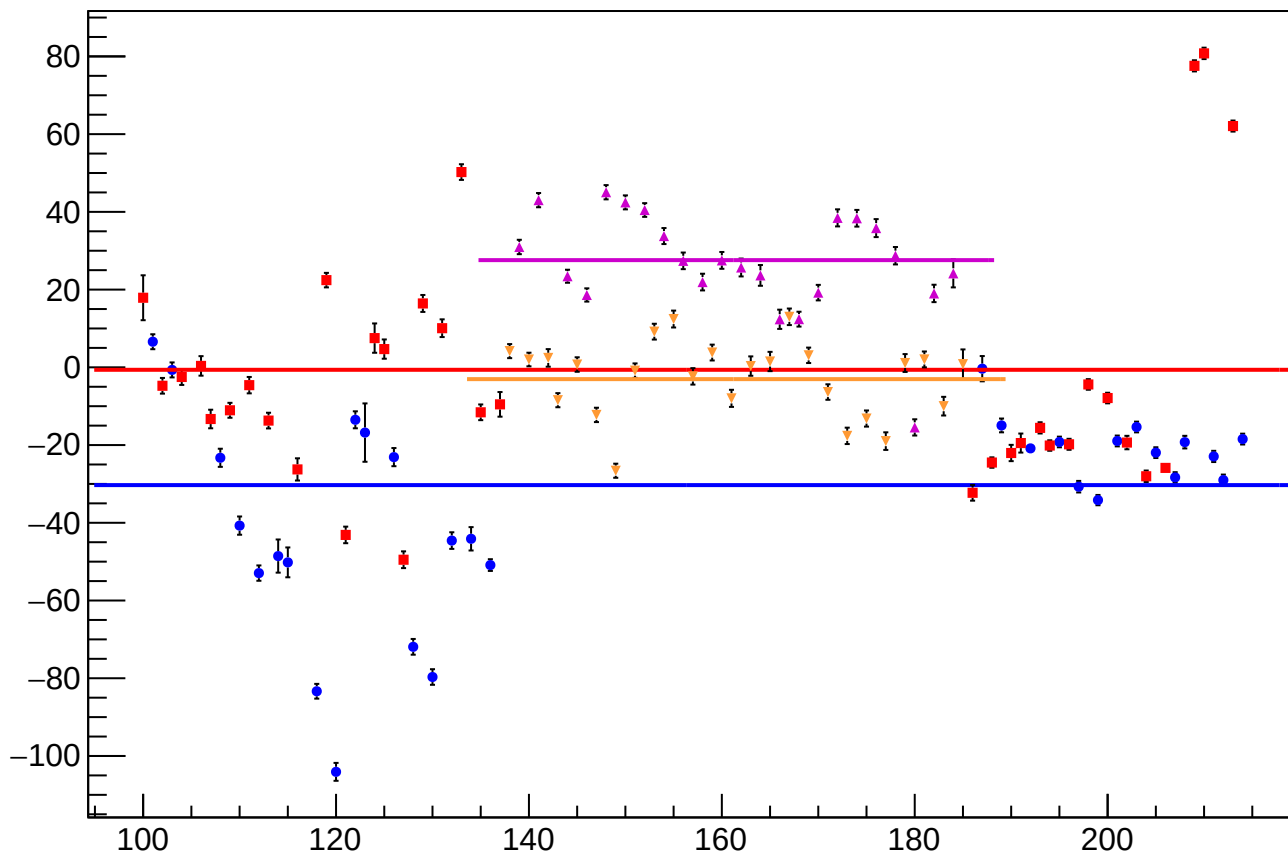
Right: 701.652 $\pm$ 0.087 χ^2 /NDF: 3375207.4/64

In: 833.766 $\pm$ 0.107 χ^2 /NDF:6800016.2/53

Out: 834.176 $\pm$ 0.104 χ^2 /NDF:7079224.7/58

All: 833.976 $\pm$ 0.074 χ^2 /NDF: 13879248.5/111

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -30.303 ± 0.317 $\chi^2/\text{NDF}: 4621.0/30$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -0.634 ± 0.312 $\chi^2/\text{NDF}: 12119.9/33$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

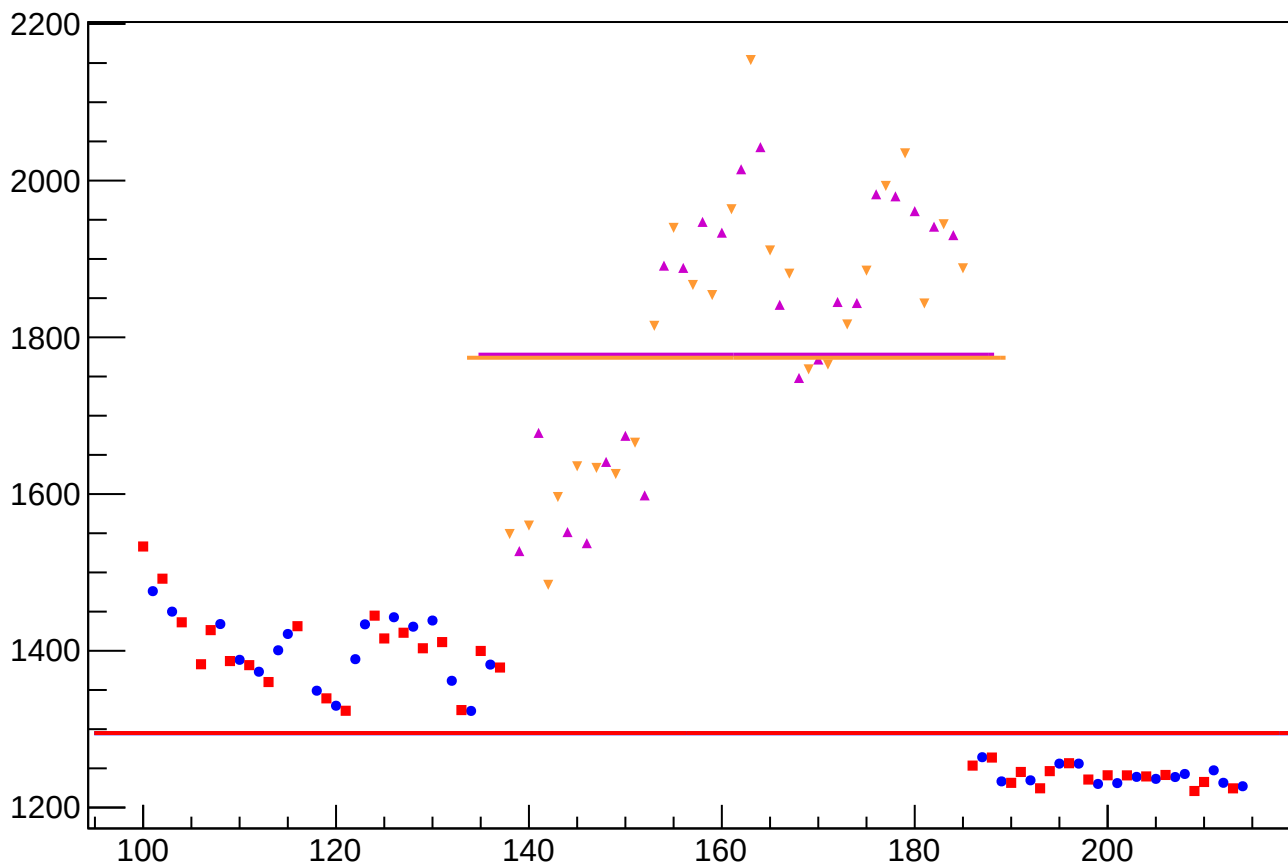
Right: -15.222 ± 0.222 $\chi^2/\text{NDF}: 21197.3/64$

In: -9.872 ± 0.255 $\chi^2/\text{NDF}: 17360.2/53$

Out: -1.500 ± 0.249 $\chi^2/\text{NDF}: 12696.9/58$

All: -5.592 ± 0.178 $\chi^2/\text{NDF}: 30608.6/112$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1294.765+/-0.224 χ^2/NDF : 132182.1/30

Left Out: 1773.965+/-0.294 χ^2/NDF : 313031.1/24

Right Out: 1295.056+/-0.220 χ^2/NDF : 131186.7/33

Left In: 1777.884+/-0.303 χ^2/NDF : 299514.0/22

Left: 1775.860+/-0.211 χ^2/NDF : 612631.3/47

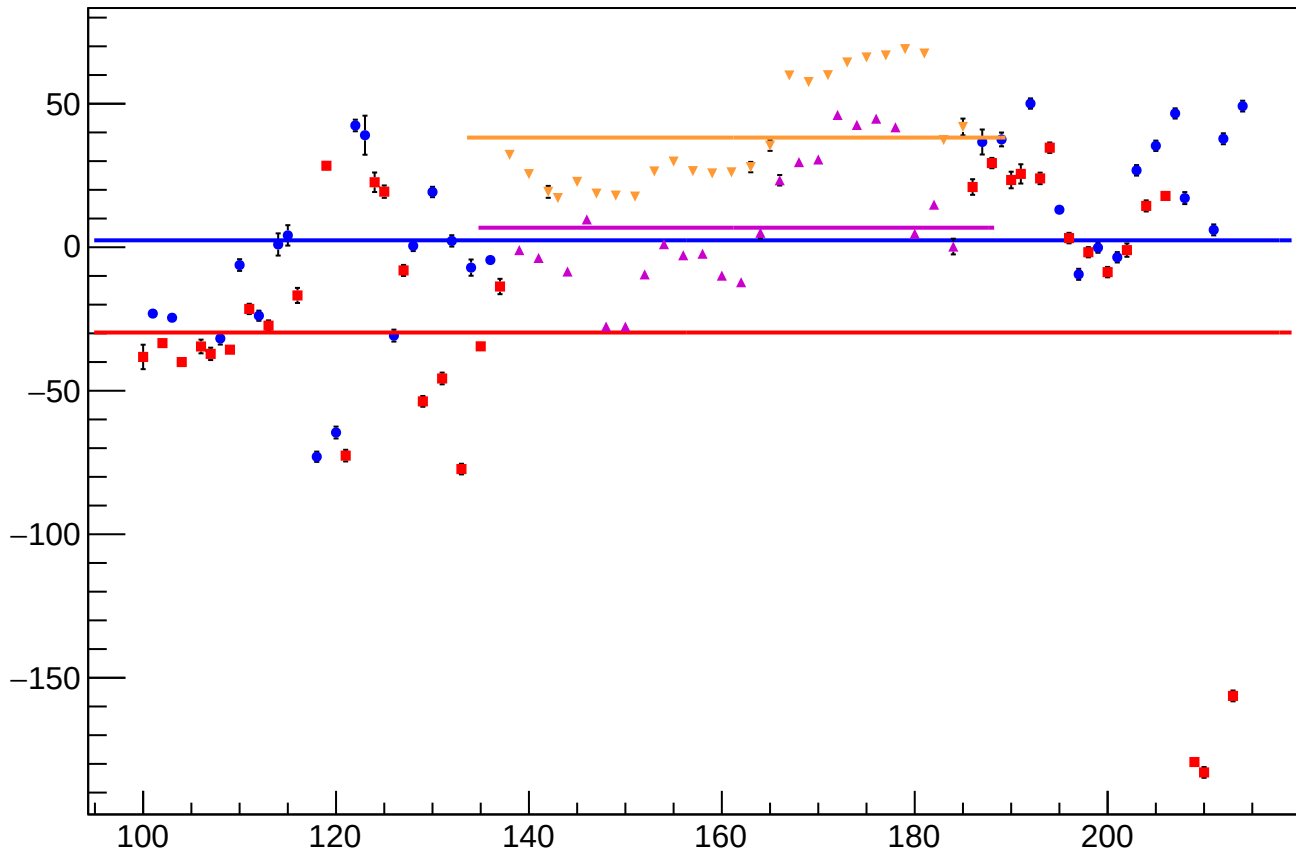
Right: 1294.913+/-0.157 χ^2/NDF : 263369.6/64

In: 1465.286+/-0.180 χ^2/NDF : 2072685.8/53

Out: 1467.694+/-0.176 χ^2/NDF : 2146834.0/58

All: 1466.517+/-0.126 χ^2/NDF : 4219611.0/111

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 2.410 ± 0.349 χ^2/NDF : 7965.7/30

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -29.710 ± 0.341 χ^2/NDF : 28384.5/33

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

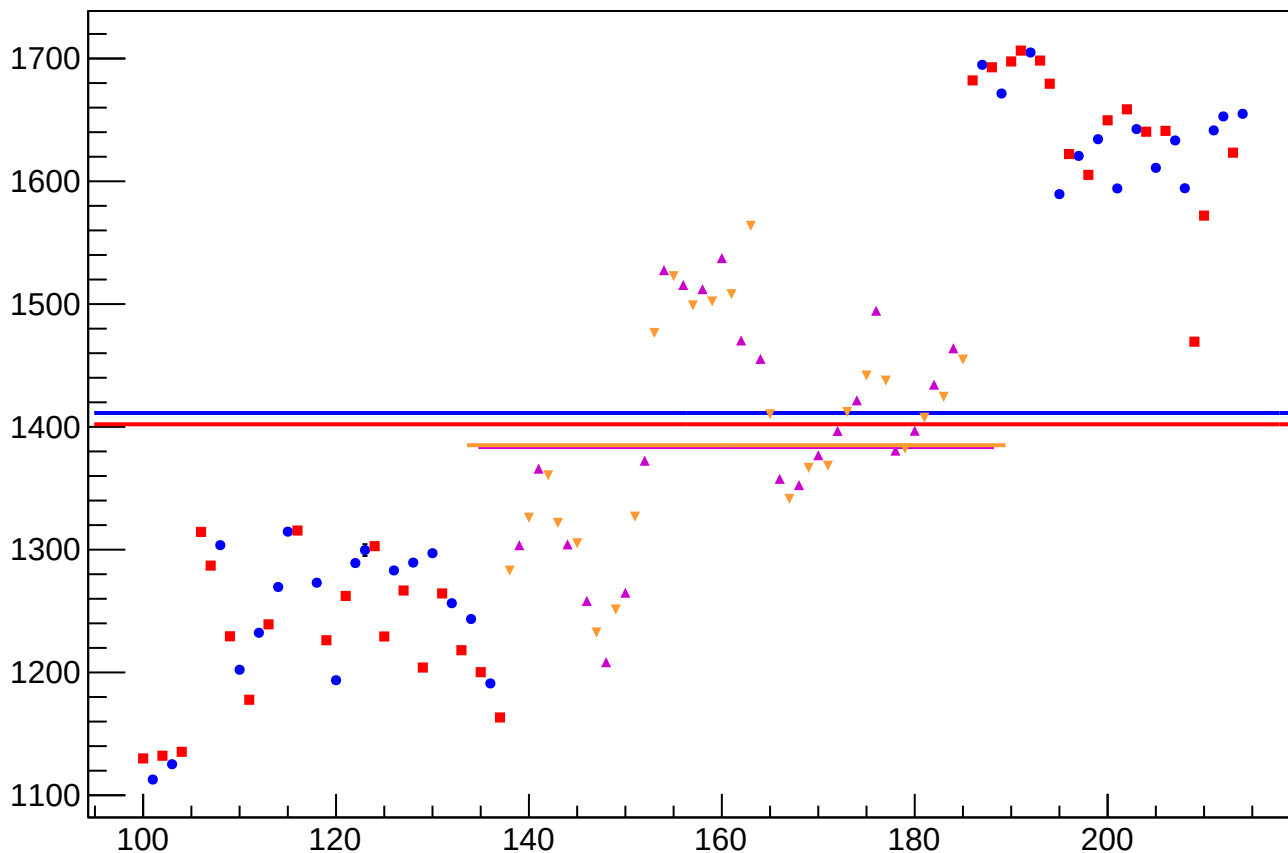
Right: -14.023 ± 0.244 χ^2/NDF : 40691.9/64

In: 4.710 ± 0.241 χ^2/NDF : 12543.4/53

Out: 6.015 ± 0.235 χ^2/NDF : 52806.2/58

All: 5.380 ± 0.168 χ^2/NDF : 65364.7/112

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1411.313 ± 0.247 $\chi^2/\text{NDF}: 732703.9/30$

Left Out: 1385.063 ± 0.229 $\chi^2/\text{NDF}: 146001.5/24$

Right Out: 1402.115 ± 0.241 $\chi^2/\text{NDF}: 787061.6/33$

Left In: 1383.558 ± 0.235 $\chi^2/\text{NDF}: 154696.0/22$

Left: 1384.333 ± 0.164 $\chi^2/\text{NDF}: 300718.5/47$

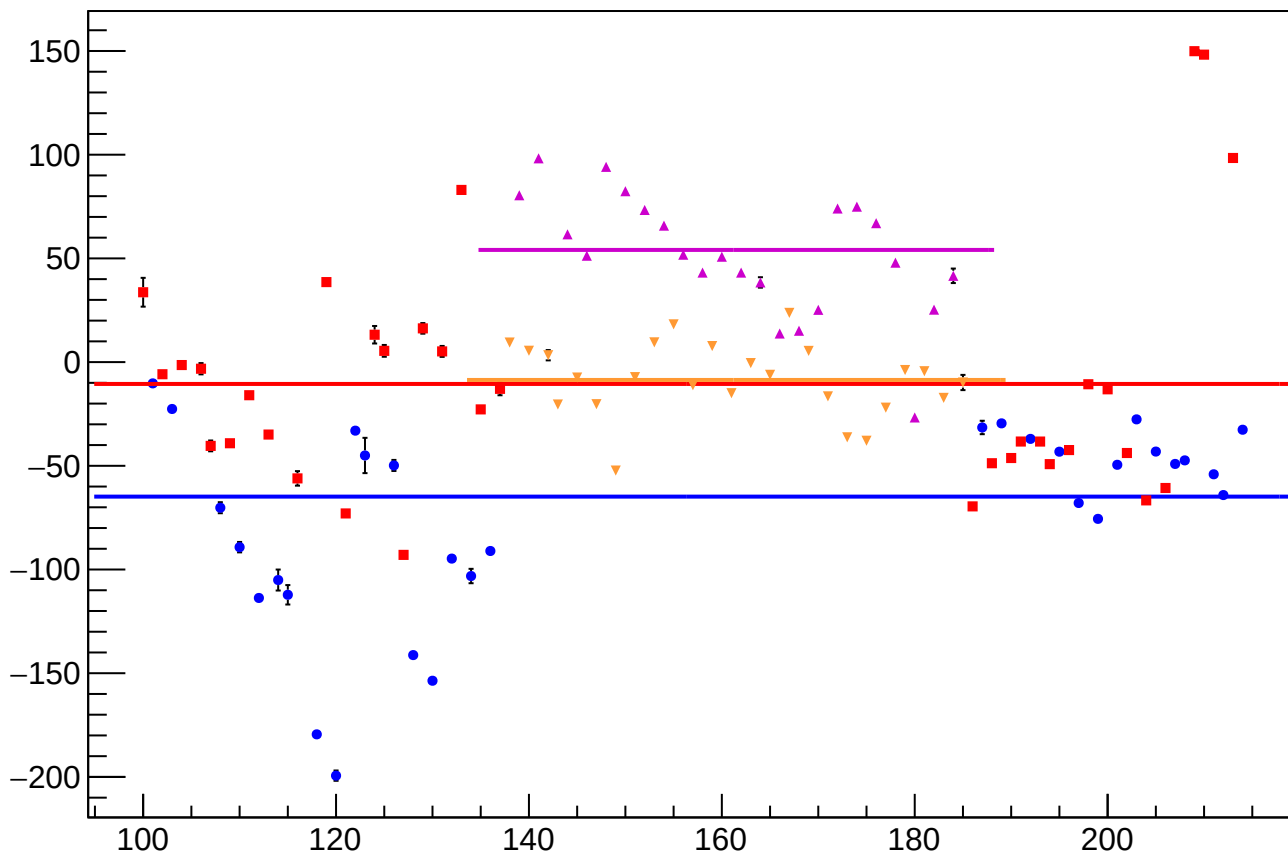
Right: 1406.607 ± 0.172 $\chi^2/\text{NDF}: 1520477.6/64$

In: 1396.797 ± 0.170 $\chi^2/\text{NDF}: 894028.2/53$

Out: 1393.145 ± 0.166 $\chi^2/\text{NDF}: 935698.8/58$

All: 1394.923 ± 0.119 $\chi^2/\text{NDF}: 1829963.0/111$

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -64.852 ± 0.356 χ^2/NDF : 13518.2/30

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -10.531 ± 0.346 χ^2/NDF : 32719.2/33

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

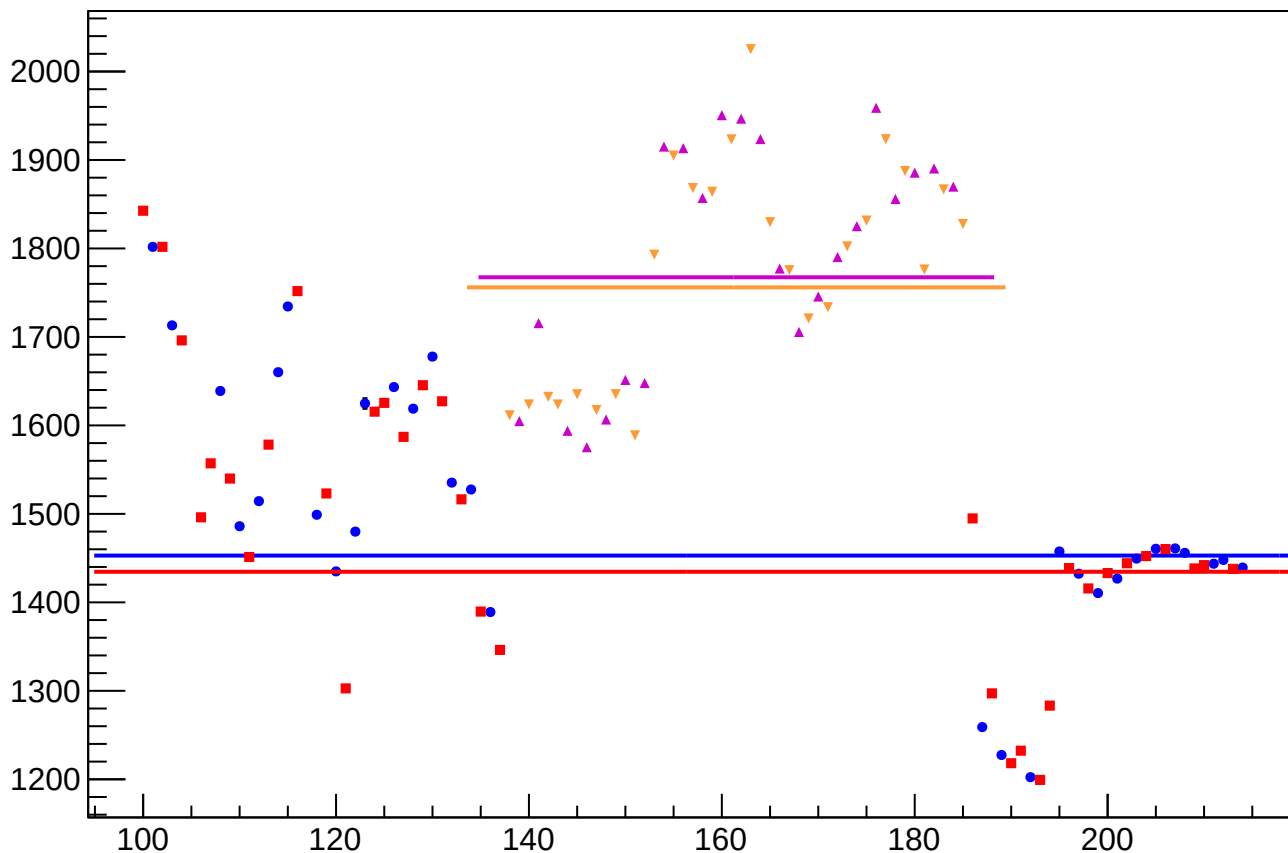
Right: -36.900 ± 0.248 χ^2/NDF : 58197.1/64

In: -15.845 ± 0.273 χ^2/NDF : 64152.7/53

Out: -9.731 ± 0.265 χ^2/NDF : 34662.7/58

All: -12.689 ± 0.190 χ^2/NDF : 99073.8/112

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1452.867 ± 0.252 $\chi^2/\text{NDF}: 261817.0/30$

Left Out: 1756.034 ± 0.290 $\chi^2/\text{NDF}: 175762.3/24$

Right Out: 1434.560 ± 0.245 $\chi^2/\text{NDF}: 308801.1/33$

Left In: 1767.410 ± 0.301 $\chi^2/\text{NDF}: 187958.2/22$

Left: 1761.512 ± 0.209 $\chi^2/\text{NDF}: 364461.2/47$

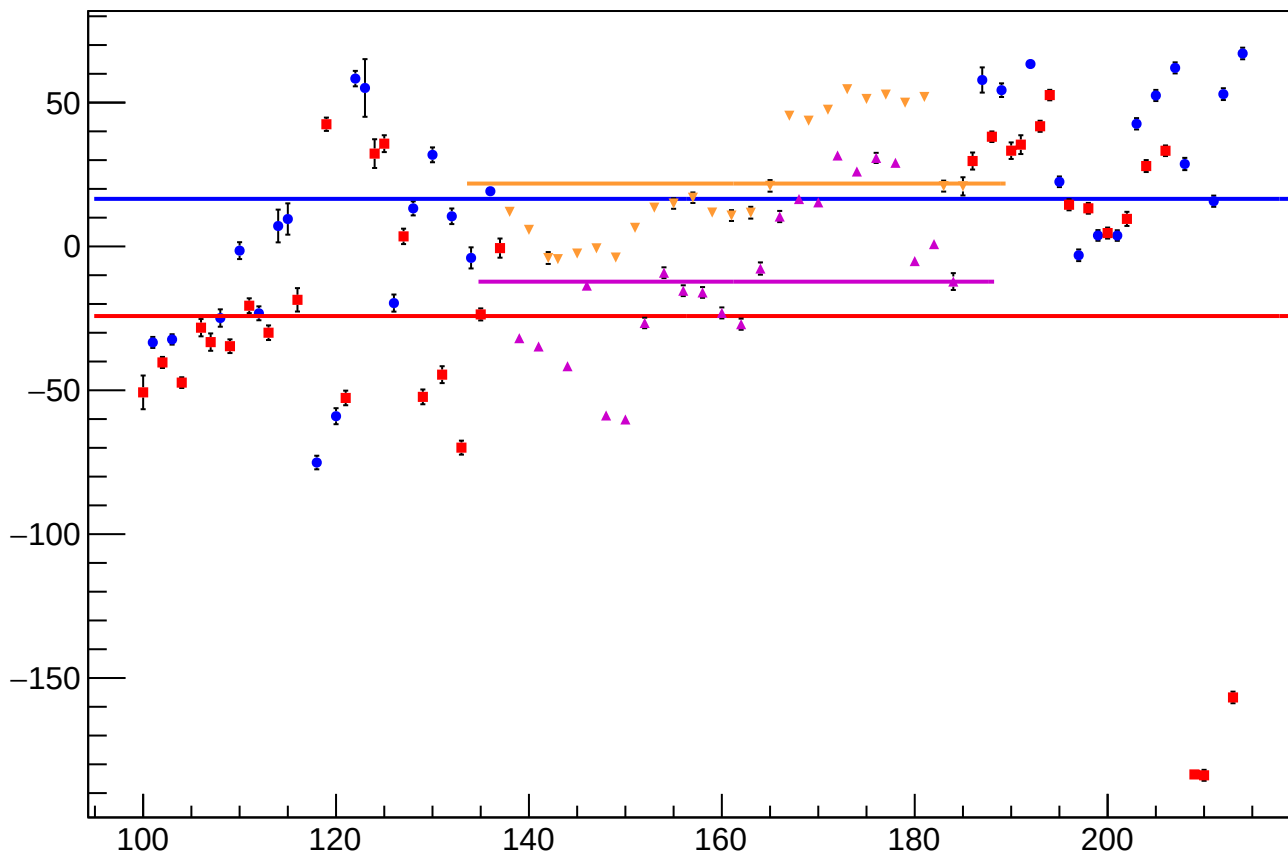
Right: 1443.447 ± 0.176 $\chi^2/\text{NDF}: 573334.6/64$

In: 1582.468 ± 0.193 $\chi^2/\text{NDF}: 1091968.2/53$

Out: 1568.227 ± 0.187 $\chi^2/\text{NDF}: 1202116.1/58$

All: 1575.117 ± 0.134 $\chi^2/\text{NDF}: 2296889.3/111$

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 16.534+/-0.409 χ^2/NDF : 7966.0/30

Left Out: 21.856+/-0.335 χ^2/NDF : 4110.5/24

Right Out: -24.193+/-0.397 χ^2/NDF : 31157.7/33

Left In: -12.246+/-0.347 χ^2/NDF : 6781.6/22

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

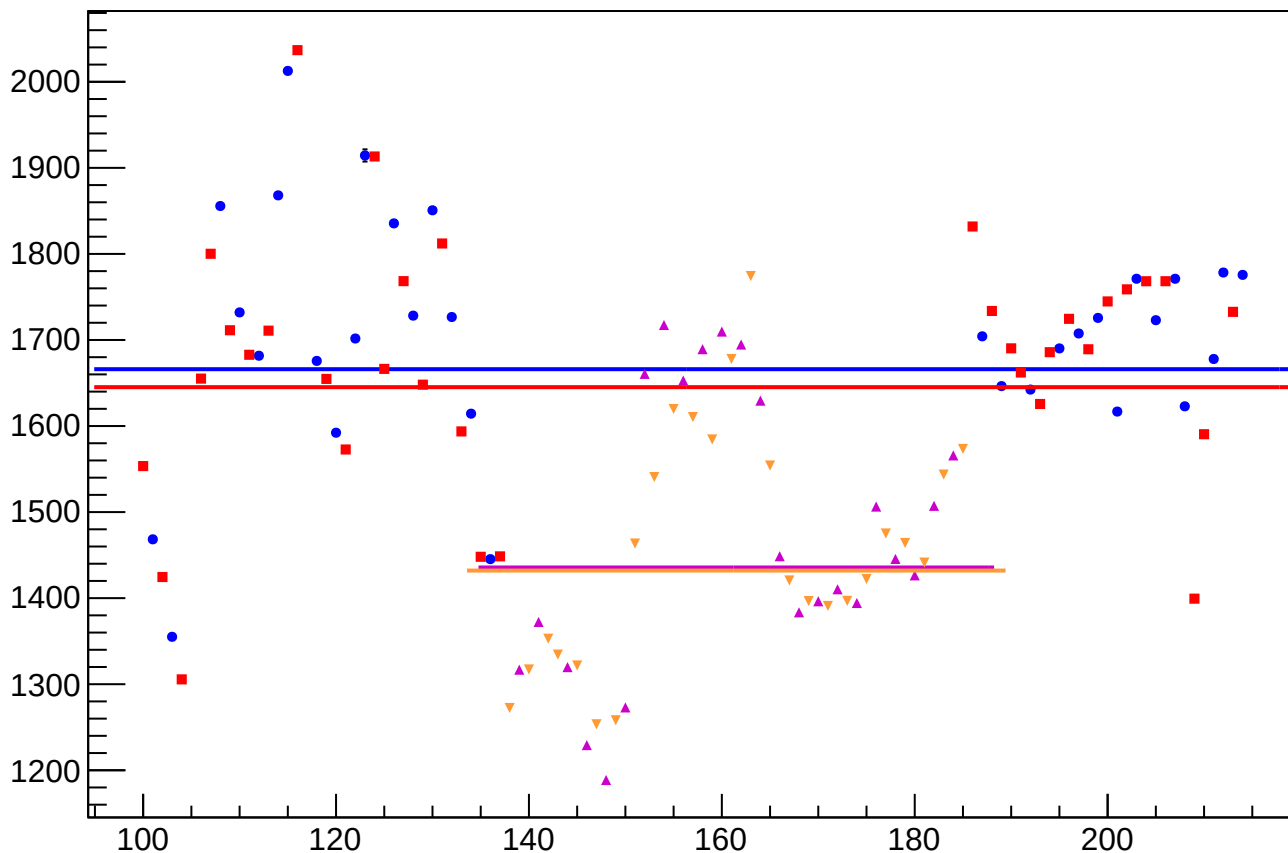
Right: -4.423+/-0.285 χ^2/NDF : 44233.1/64

In: -0.189+/-0.265 χ^2/NDF : 17628.7/53

Out: 2.681+/-0.256 χ^2/NDF : 43121.1/58

All: 1.292+/-0.184 χ^2/NDF : 60810.5/112

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1666.053 $\pm$ 0.289 χ^2 /NDF: 193579.3/30

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1645.172 $\pm$ 0.281 χ^2 /NDF: 258707.7/33

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

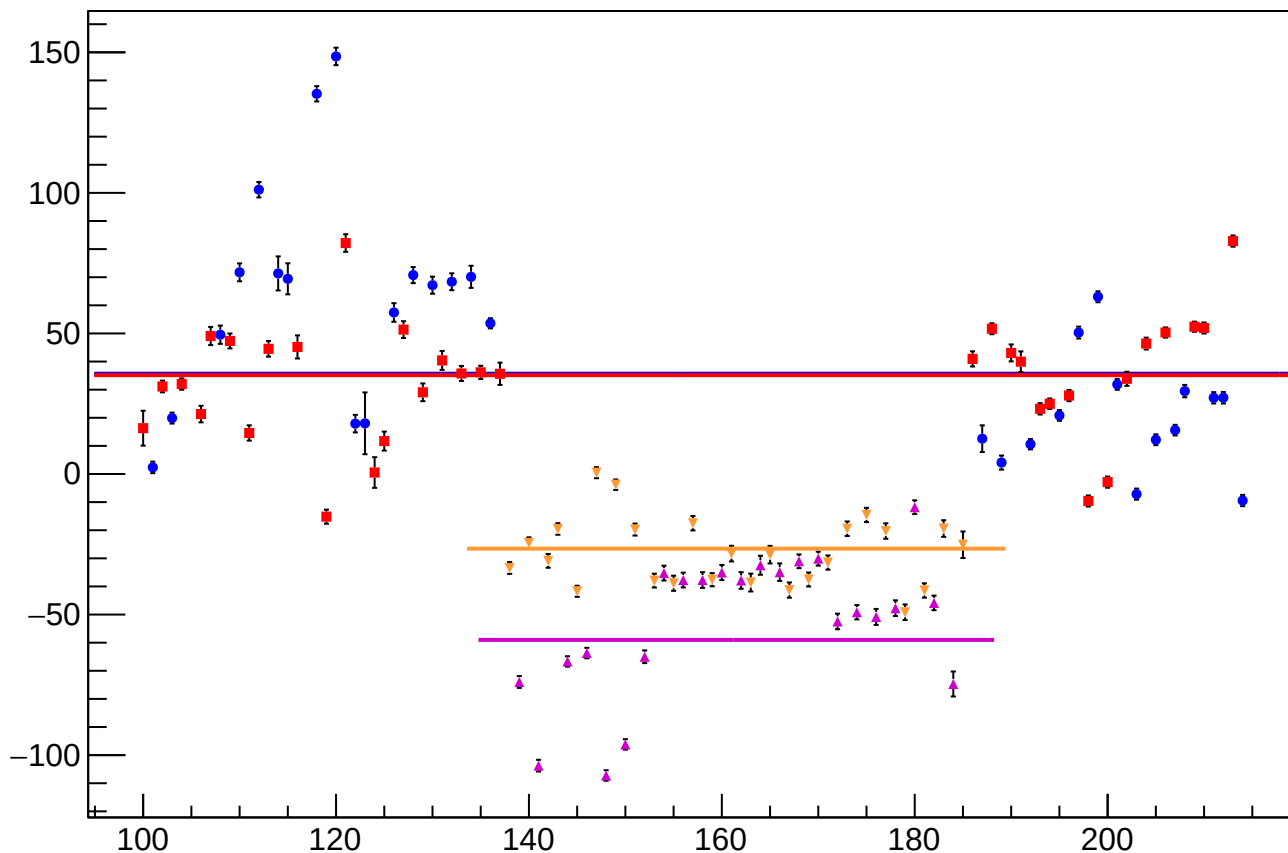
Right: 1655.308 $\pm$ 0.201 χ^2 /NDF: 454973.2/64

In: 1532.174 $\pm$ 0.187 χ^2 /NDF: 983724.3/53

Out: 1520.800 $\pm$ 0.181 χ^2 /NDF: 892460.2/58

All: 1526.304 $\pm$ 0.130 χ^2 /NDF: 1878092.4/111

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 35.678+/-0.434 χ^2/NDF : 6368.5/30

Left Out: -26.554+/-0.488 χ^2/NDF : 717.5/24

Right Out: 35.158+/-0.422 χ^2/NDF : 2780.5/33

Left In: -59.014+/-0.506 χ^2/NDF : 2783.8/22

Left: -42.178+/-0.351 χ^2/NDF : 5632.2/47

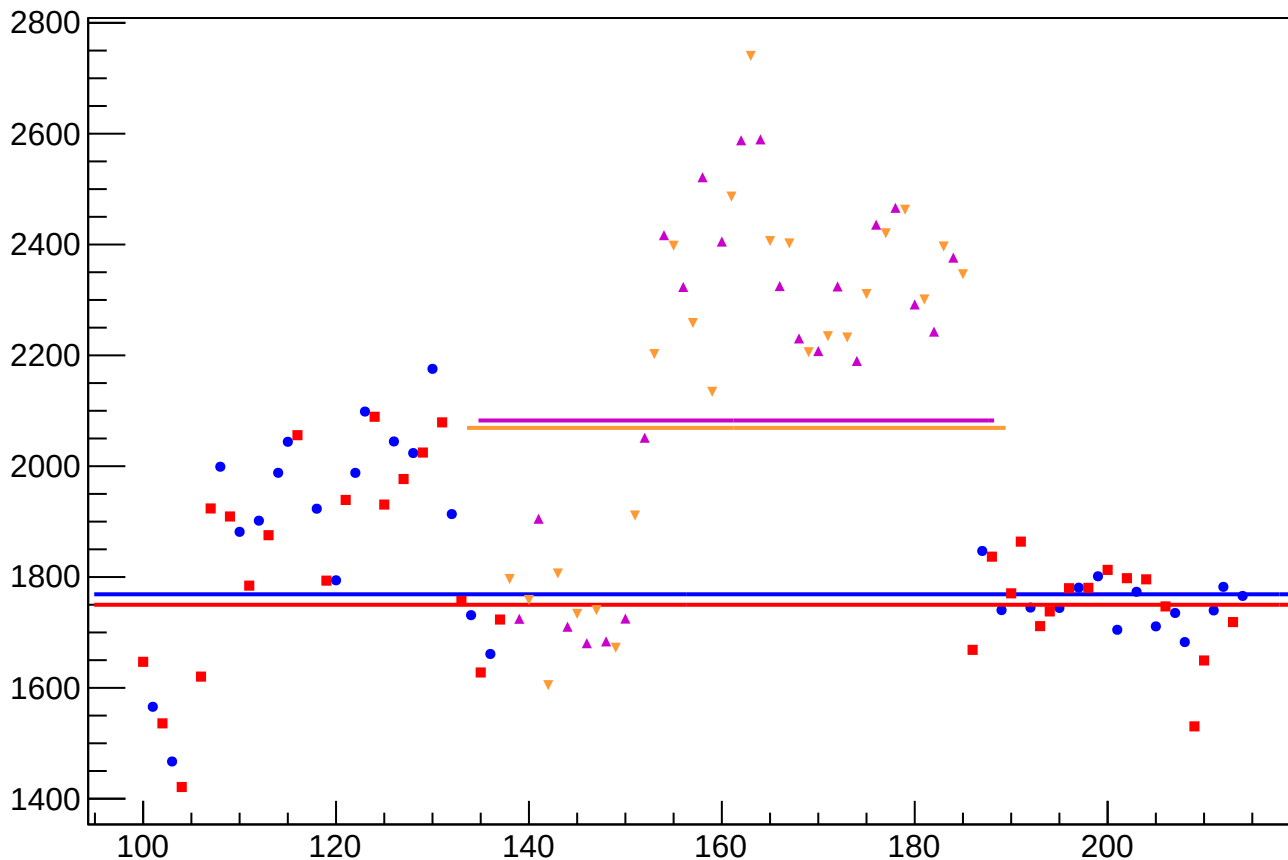
Right: 35.410+/-0.302 χ^2/NDF : 9149.7/64

In: -4.394+/-0.329 χ^2/NDF : 29319.0/53

Out: 8.754+/-0.319 χ^2/NDF : 12652.7/58

All: 2.389+/-0.229 χ^2/NDF : 42793.5/112

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1768.879 ± 0.307 $\chi^2/\text{NDF}: 198334.3/30$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1749.959 ± 0.298 $\chi^2/\text{NDF}: 228094.3/33$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

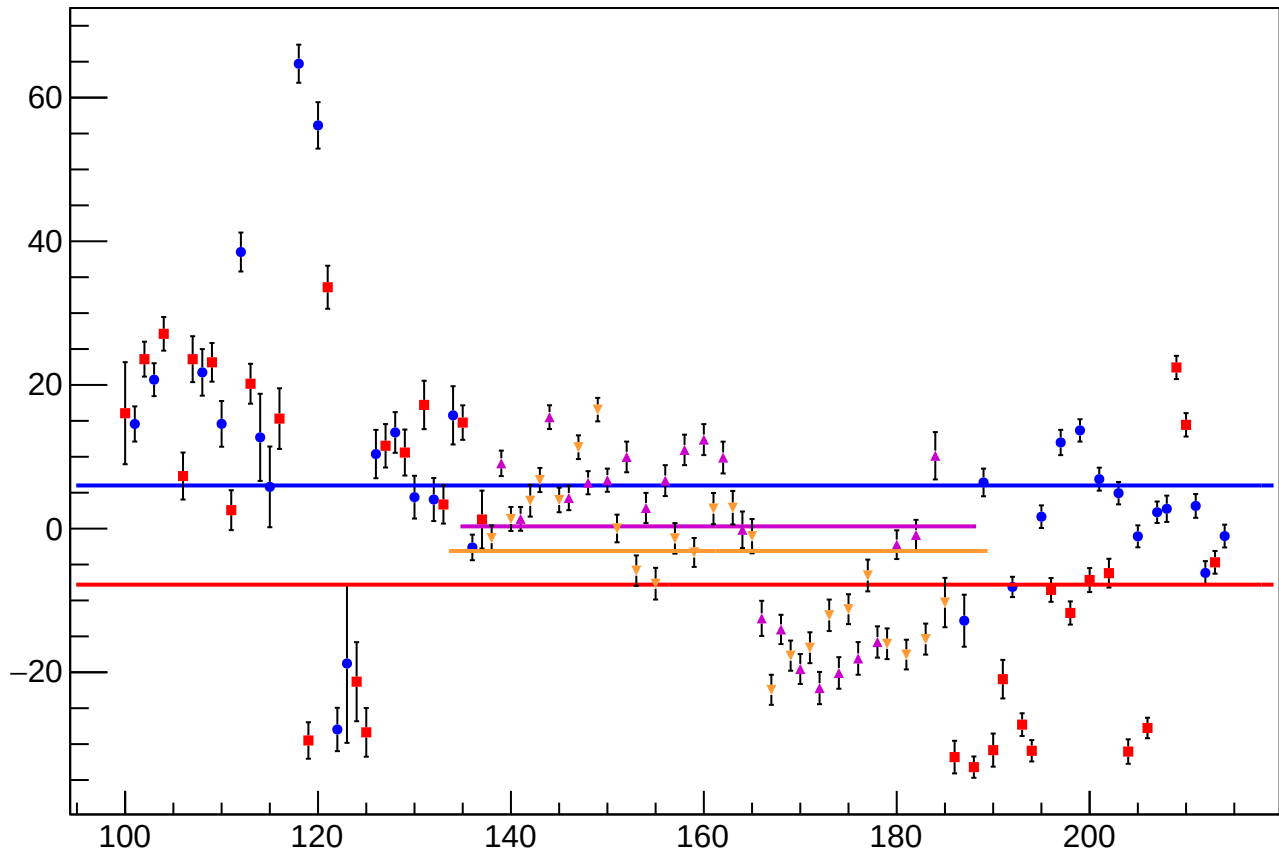
Right: 1759.156 ± 0.214 $\chi^2/\text{NDF}: 428384.0/64$

In: 1901.596 ± 0.233 $\chi^2/\text{NDF}: 1426071.2/53$

Out: 1886.526 ± 0.226 $\chi^2/\text{NDF}: 1516946.0/58$

All: 1893.821 ± 0.162 $\chi^2/\text{NDF}: 2945176.5/111$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 6.008 $\pm$ 0.378 χ^2/NDF : 1409.7/30

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF : 643.7/24

Right Out: -7.801 $\pm$ 0.371 χ^2/NDF : 3193.4/33

Left In: 0.312 $\pm$ 0.421 χ^2/NDF : 736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

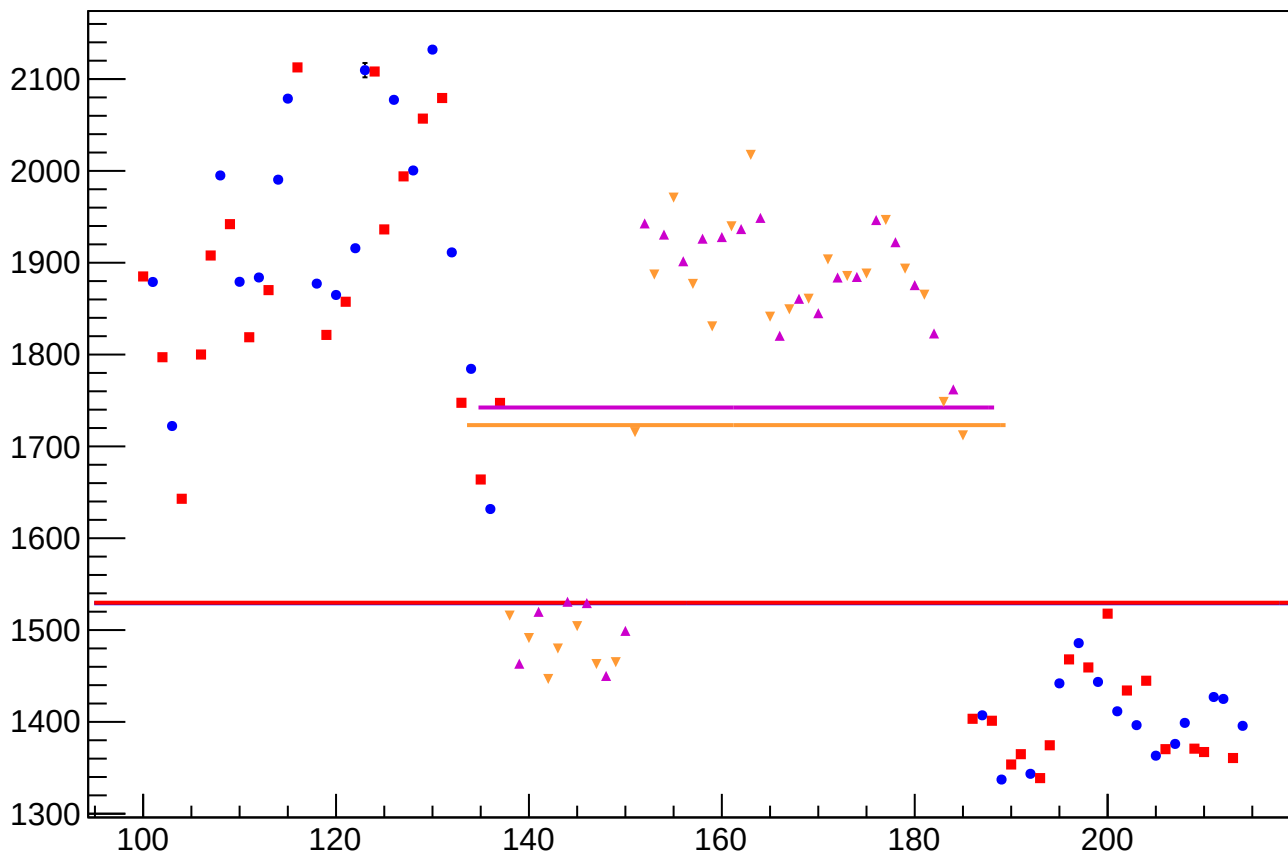
Right: -1.015 $\pm$ 0.265 χ^2/NDF : 5282.7/64

In: 3.468 $\pm$ 0.281 χ^2/NDF : 2247.6/53

Out: -5.655 $\pm$ 0.273 χ^2/NDF : 3910.1/58

All: -1.221 $\pm$ 0.196 χ^2/NDF : 6698.7/112

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1529.190+/-0.267 χ^2/NDF : 697198.2/30

Left Out: 1723.168+/-0.286 χ^2/NDF : 477441.1/24

Right Out: 1529.777+/-0.263 χ^2/NDF : 688249.2/33

Left In: 1742.354+/-0.298 χ^2/NDF : 435841.5/22

Left: 1732.370+/-0.206 χ^2/NDF : 915443.3/47

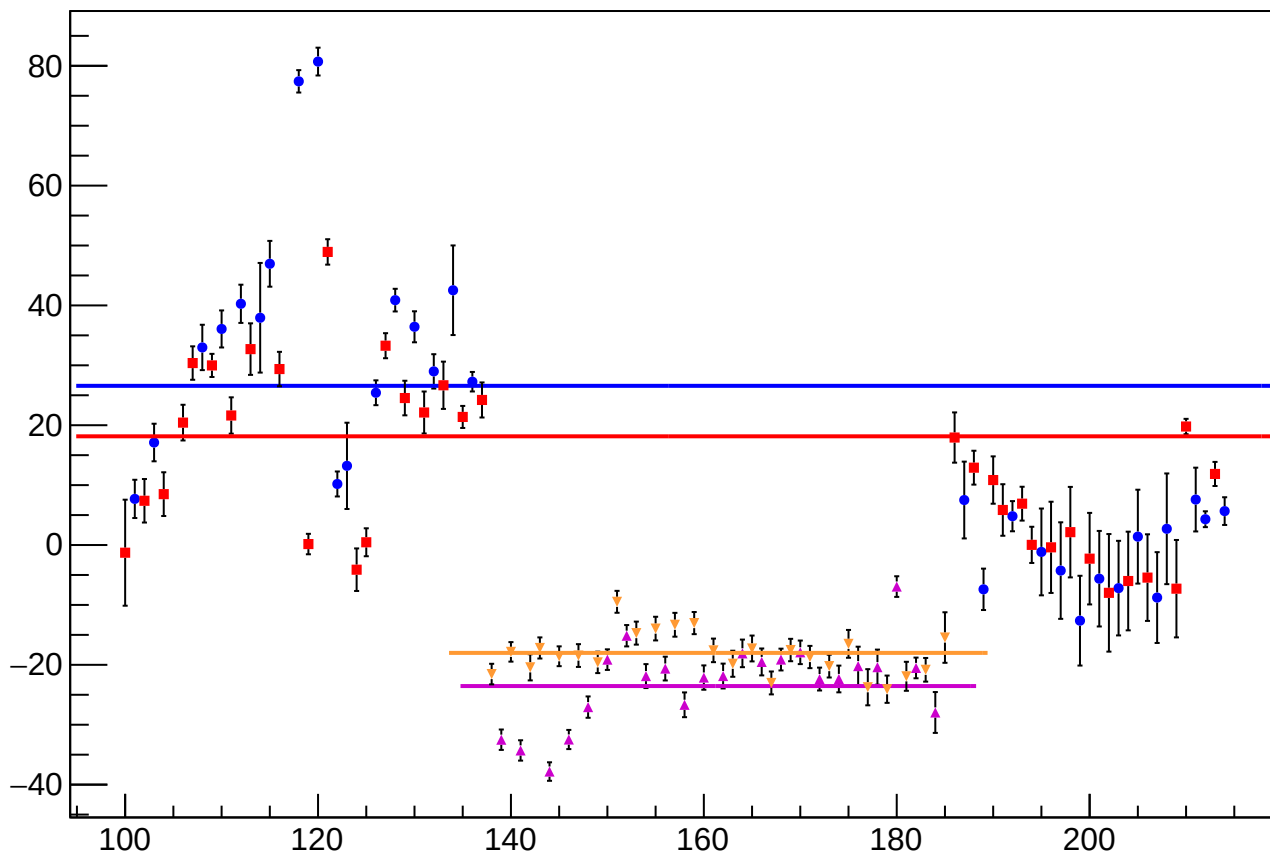
Right: 1529.488+/-0.187 χ^2/NDF : 1385449.9/64

In: 1624.240+/-0.199 χ^2/NDF : 1417038.1/53

Out: 1618.276+/-0.193 χ^2/NDF : 1413964.5/58

All: 1621.175+/-0.139 χ^2/NDF : 2831465.0/111

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 26.576 ± 0.524 χ^2/NDF : 2217.8/30

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 18.148 ± 0.488 χ^2/NDF : 726.6/33

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

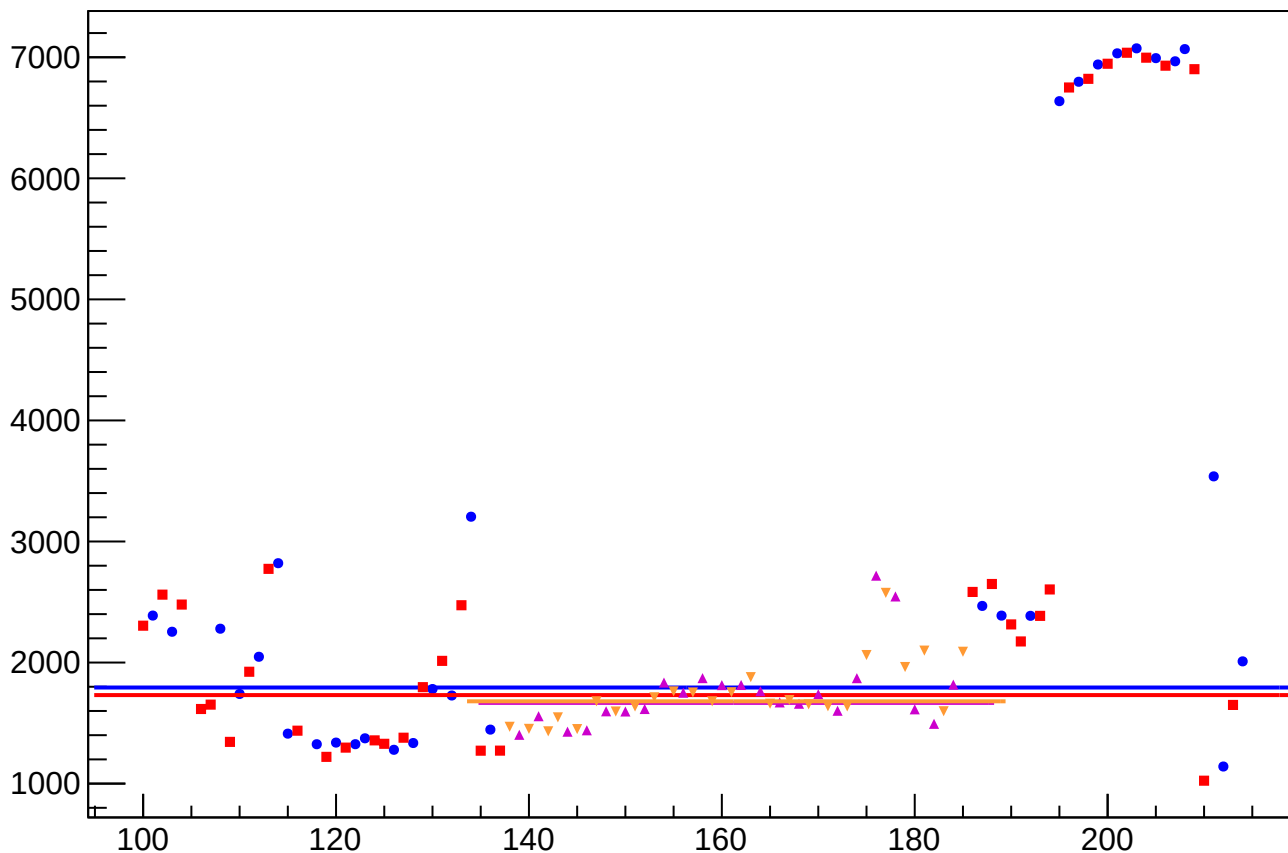
Right: 22.062 ± 0.357 χ^2/NDF : 3083.0/64

In: -4.770 ± 0.321 χ^2/NDF : 8282.9/53

Out: -3.628 ± 0.308 χ^2/NDF : 4104.2/58

All: -4.175 ± 0.222 χ^2/NDF : 12393.7/112

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1793.779 $\pm$ 0.371 χ^2 /NDF: 8656485.5/30

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1731.203 $\pm$ 0.345 χ^2 /NDF: 8288213.0/33

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

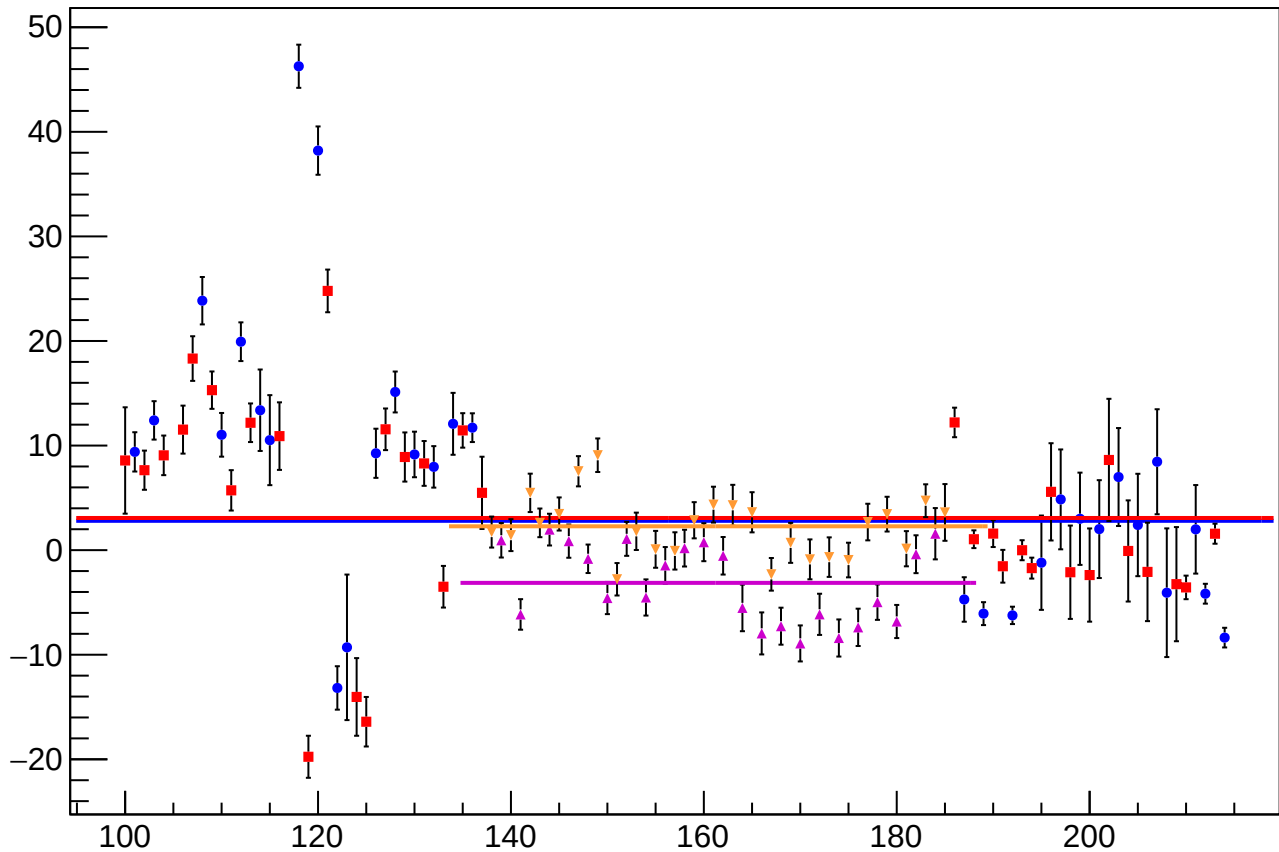
Right: 1760.268 $\pm$ 0.253 χ^2 /NDF: 16959963.6/64

In: 1714.377 $\pm$ 0.227 χ^2 /NDF: 9380861.3/53

Out: 1700.253 $\pm$ 0.218 χ^2 /NDF: 8824357.4/58

All: 1707.024 $\pm$ 0.157 χ^2 /NDF: 18207236.9/111

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 2.805 $\pm$ 0.337 χ^2/NDF : 1488.7/30

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.076 $\pm$ 0.298 χ^2/NDF : 694.3/33

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

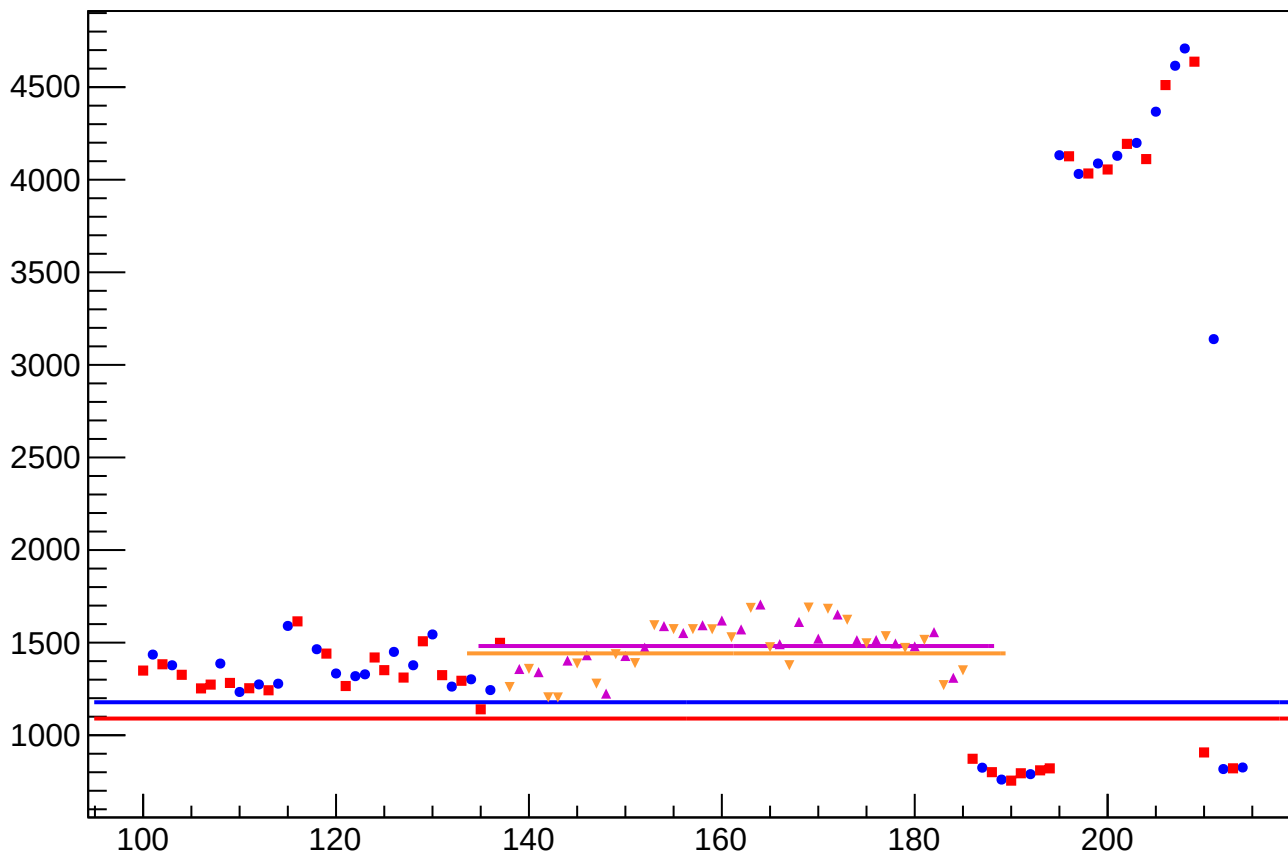
Right: 2.957 $\pm$ 0.223 χ^2/NDF : 2183.3/64

In: 0.011 $\pm$ 0.245 χ^2/NDF : 1737.7/53

Out: 2.728 $\pm$ 0.224 χ^2/NDF : 773.0/58

All: 1.495 $\pm$ 0.165 χ^2/NDF : 2577.6/112

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1178.083 $\pm$ 0.239 χ^2/NDF : 8575302.5/30

Left Out: 1441.951 $\pm$ 0.239 χ^2/NDF : 370617.4/24

Right Out: 1090.018 $\pm$ 0.211 χ^2/NDF : 7360506.9/33

Left In: 1481.695 $\pm$ 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2/NDF : 592125.7/47

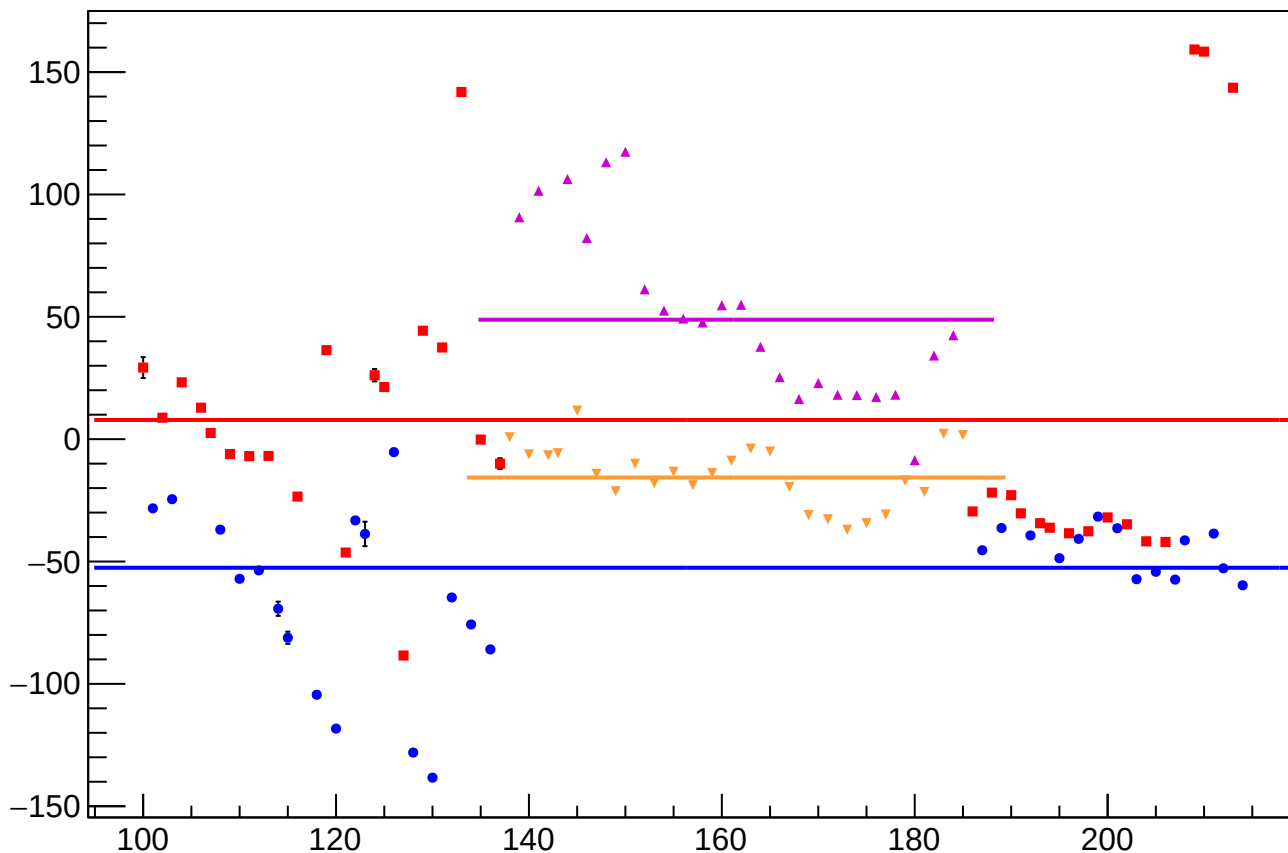
Right: 1128.633 $\pm$ 0.158 χ^2/NDF : 16012325.4/64

In: 1321.050 $\pm$ 0.174 χ^2/NDF : 9546437.2/53

Out: 1243.896 $\pm$ 0.158 χ^2/NDF : 8949601.7/58

All: 1278.902 $\pm$ 0.117 χ^2/NDF : 18604023.7/115

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.546 ± 0.176 $\chi^2/\text{NDF}: 17735.3/30$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: 7.847 ± 0.174 $\chi^2/\text{NDF}: 171886.8/33$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

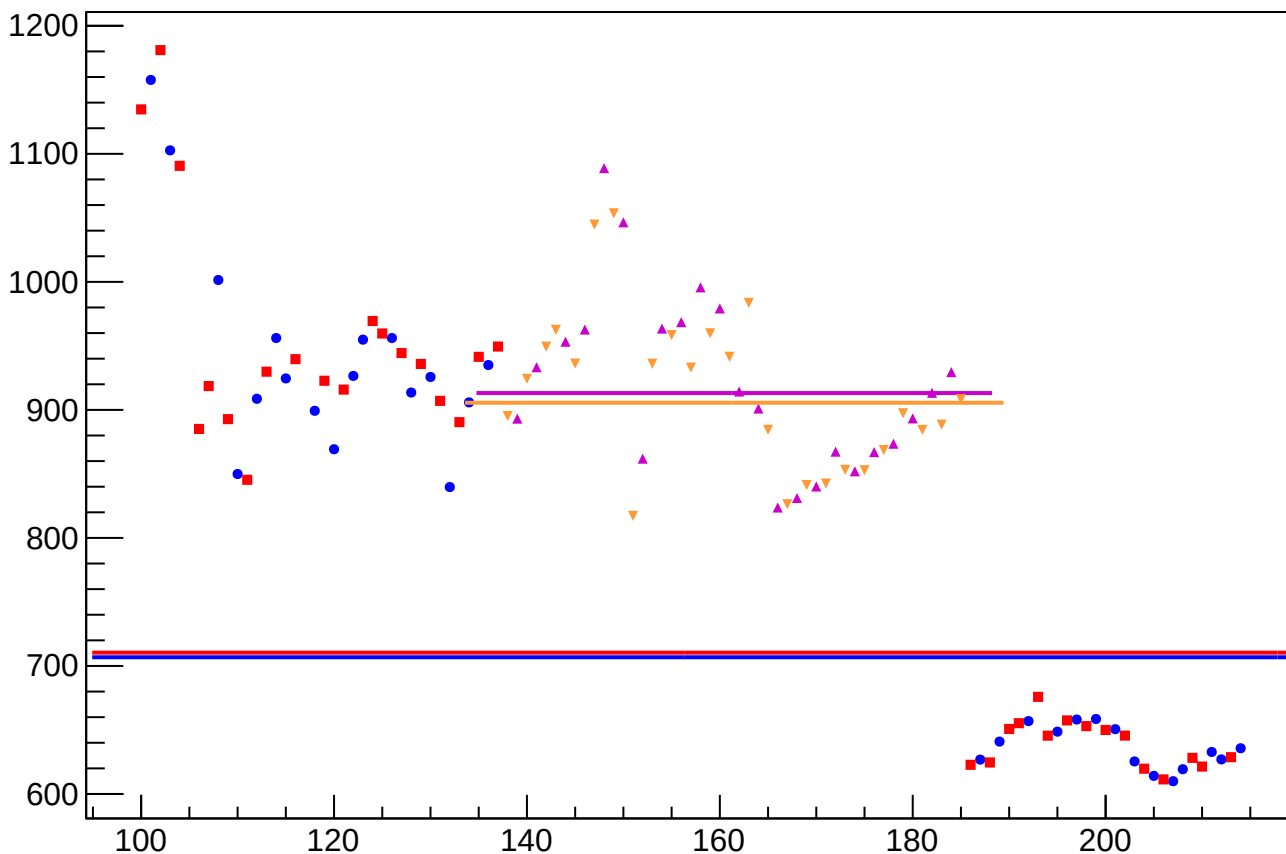
Right: -21.988 ± 0.124 $\chi^2/\text{NDF}: 249369.5/64$

In: -13.032 ± 0.137 $\chi^2/\text{NDF}: 172658.4/53$

Out: -1.621 ± 0.134 $\chi^2/\text{NDF}: 182786.8/58$

All: -7.197 ± 0.096 $\chi^2/\text{NDF}: 358977.7/112$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 706.782 ± 0.124 $\chi^2/\text{NDF}: 1167571.0/30$

Left Out: 905.578 ± 0.150 $\chi^2/\text{NDF}: 162073.5/24$

Right Out: 710.395 ± 0.123 $\chi^2/\text{NDF}: 1216138.7/33$

Left In: 913.165 ± 0.155 $\chi^2/\text{NDF}: 174438.8/22$

Left: 909.225 ± 0.108 $\chi^2/\text{NDF}: 337749.0/47$

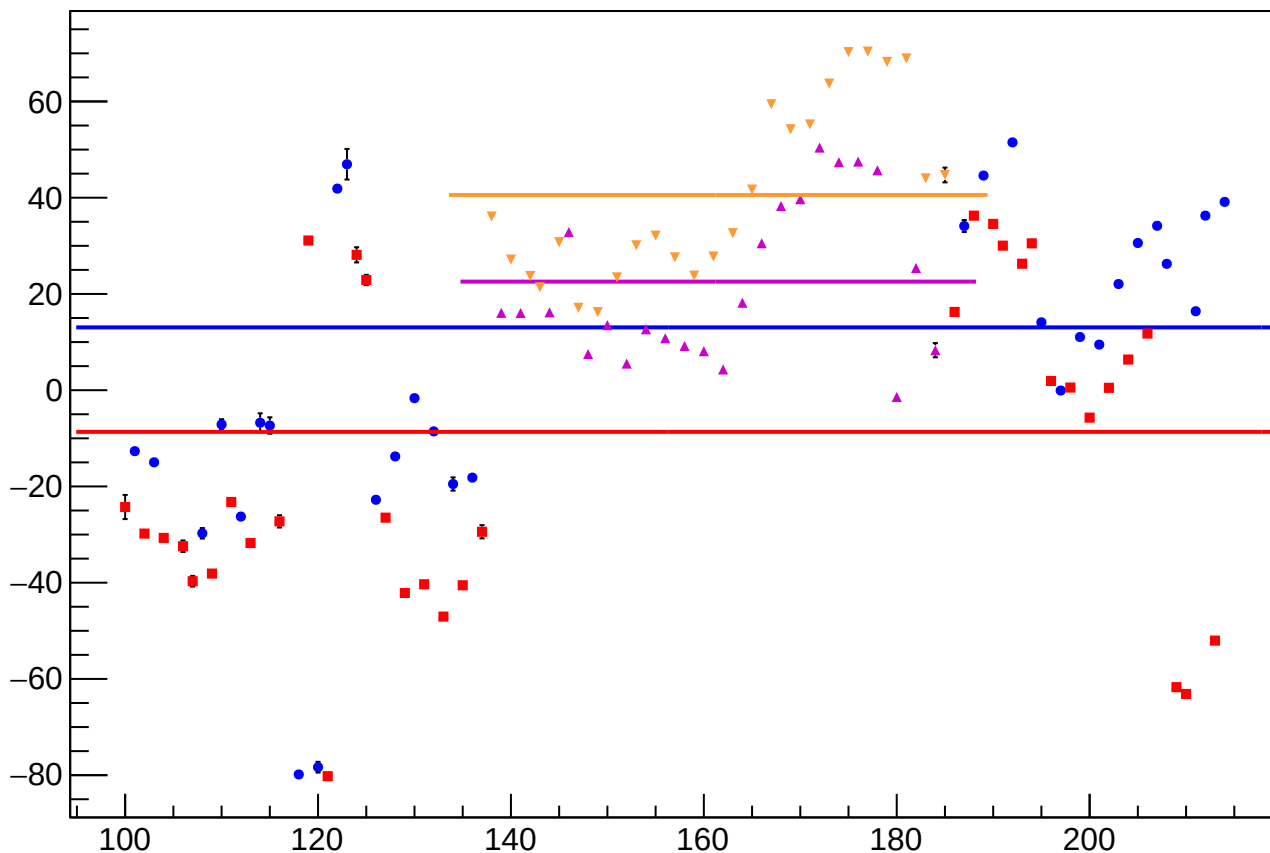
Right: 708.610 ± 0.087 $\chi^2/\text{NDF}: 2384137.4/64$

In: 787.240 ± 0.097 $\chi^2/\text{NDF}: 2417157.7/53$

Out: 788.988 ± 0.095 $\chi^2/\text{NDF}: 2395530.7/58$

All: 788.134 ± 0.068 $\chi^2/\text{NDF}: 4812854.2/112$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 13.055+/-0.131 χ^2/NDF : 46061.4/30

Left Out: 40.573+/-0.168 χ^2/NDF :12079.0/24

Right Out: -8.660+/-0.128 χ^2/NDF : 68136.5/33

Left In: 22.565+/-0.175 χ^2/NDF :8167.7/22

Left: 31.959+/-0.121 χ^2/NDF : 25752.7/47

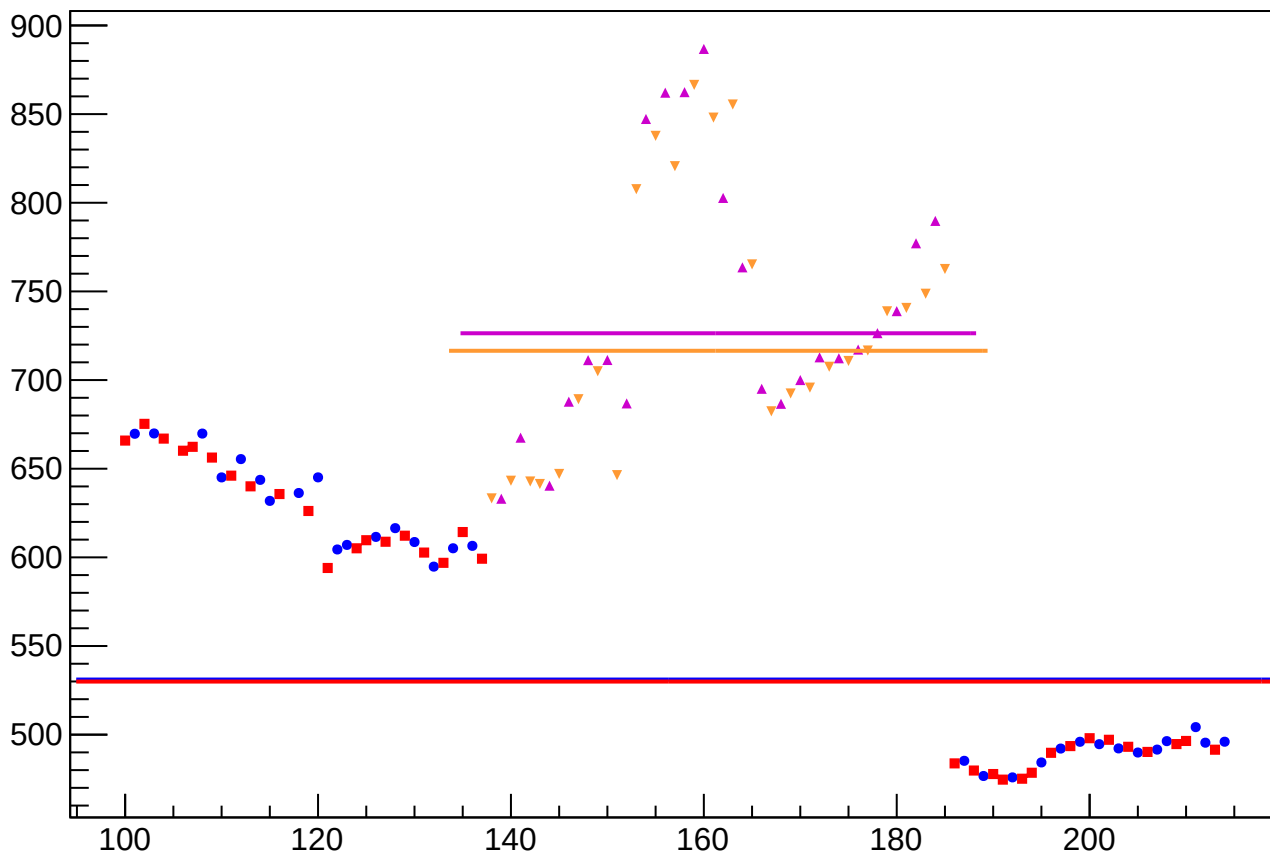
Right: 1.991+/-0.092 χ^2/NDF : 128266.5/64

In: 16.453+/-0.105 χ^2/NDF :56121.0/53

Out: 9.484+/-0.102 χ^2/NDF :134549.0/58

All: 12.872+/-0.073 χ^2/NDF : 192943.6/112

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 531.086 $\pm$ 0.092 χ^2 /NDF: 492377.2/30

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24

Right Out: 529.946 $\pm$ 0.091 χ^2 /NDF: 535545.4/33

Left In: 726.390 $\pm$ 0.124 χ^2 /NDF: 289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47

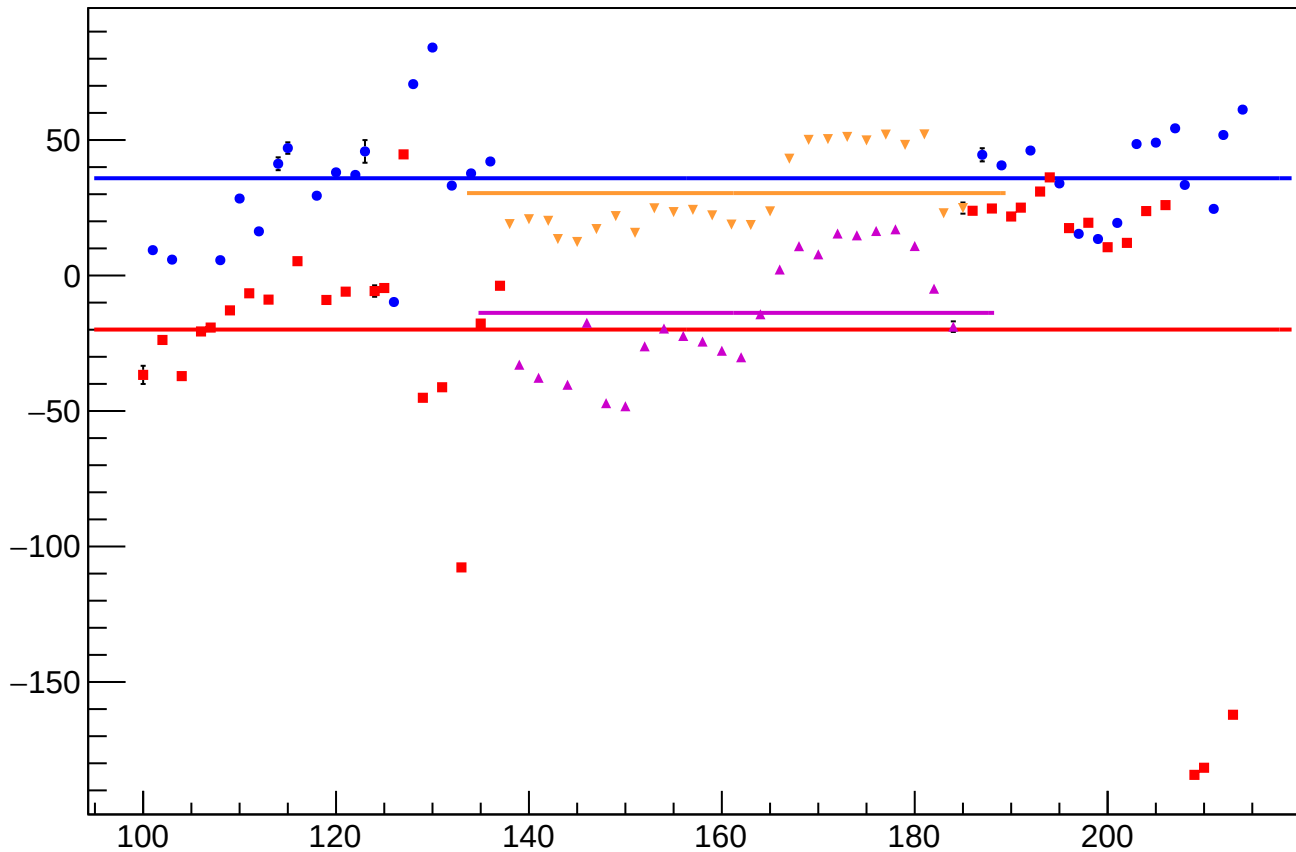
Right: 530.505 $\pm$ 0.065 χ^2 /NDF: 1028000.1/64

In: 600.861 $\pm$ 0.074 χ^2 /NDF: 2378086.4/53

Out: 598.705 $\pm$ 0.072 χ^2 /NDF: 2438793.2/58

All: 599.753 $\pm$ 0.052 χ^2 /NDF: 4817314.9/112

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 35.895 $\pm$ 0.211 χ^2 /NDF: 9167.9/30

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF:3808.0/24

Right Out: -19.945 $\pm$ 0.207 χ^2 /NDF: 89192.8/33

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF:7979.7/22

Left: 9.082 $\pm$ 0.171 χ^2 /NDF: 28511.9/47

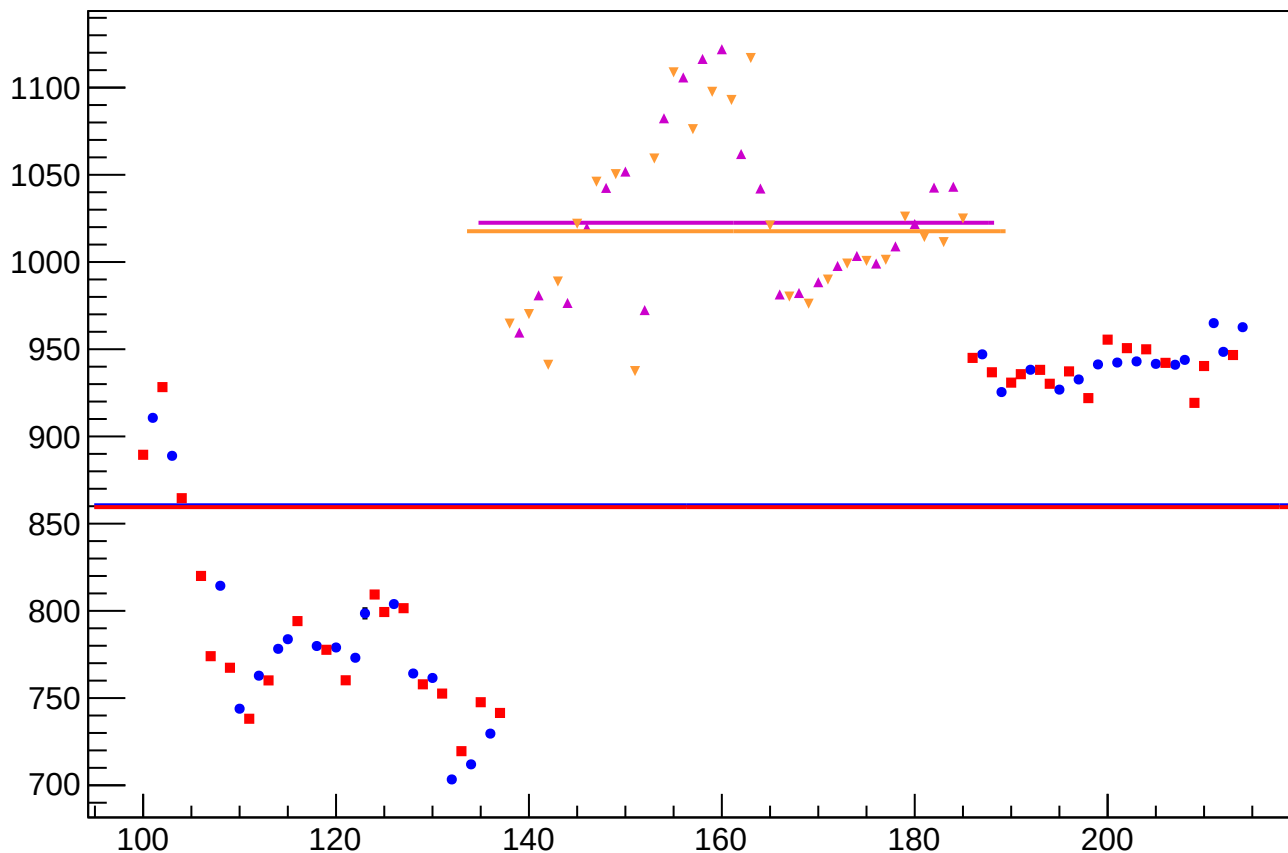
Right: 7.442 $\pm$ 0.148 χ^2 /NDF: 133908.6/64

In: 14.772 $\pm$ 0.160 χ^2 /NDF:40626.6/53

Out: 1.853 $\pm$ 0.156 χ^2 /NDF:118514.1/58

All: 8.145 $\pm$ 0.112 χ^2 /NDF: 162473.1/112

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 860.534 ± 0.149 $\chi^2/\text{NDF}: 377271.6/30$

Left Out: 1017.653 ± 0.168 $\chi^2/\text{NDF}: 83612.5/24$

Right Out: 859.465 ± 0.147 $\chi^2/\text{NDF}: 348269.7/33$

Left In: 1022.511 ± 0.174 $\chi^2/\text{NDF}: 69635.5/22$

Left: 1019.997 ± 0.121 $\chi^2/\text{NDF}: 153652.2/47$

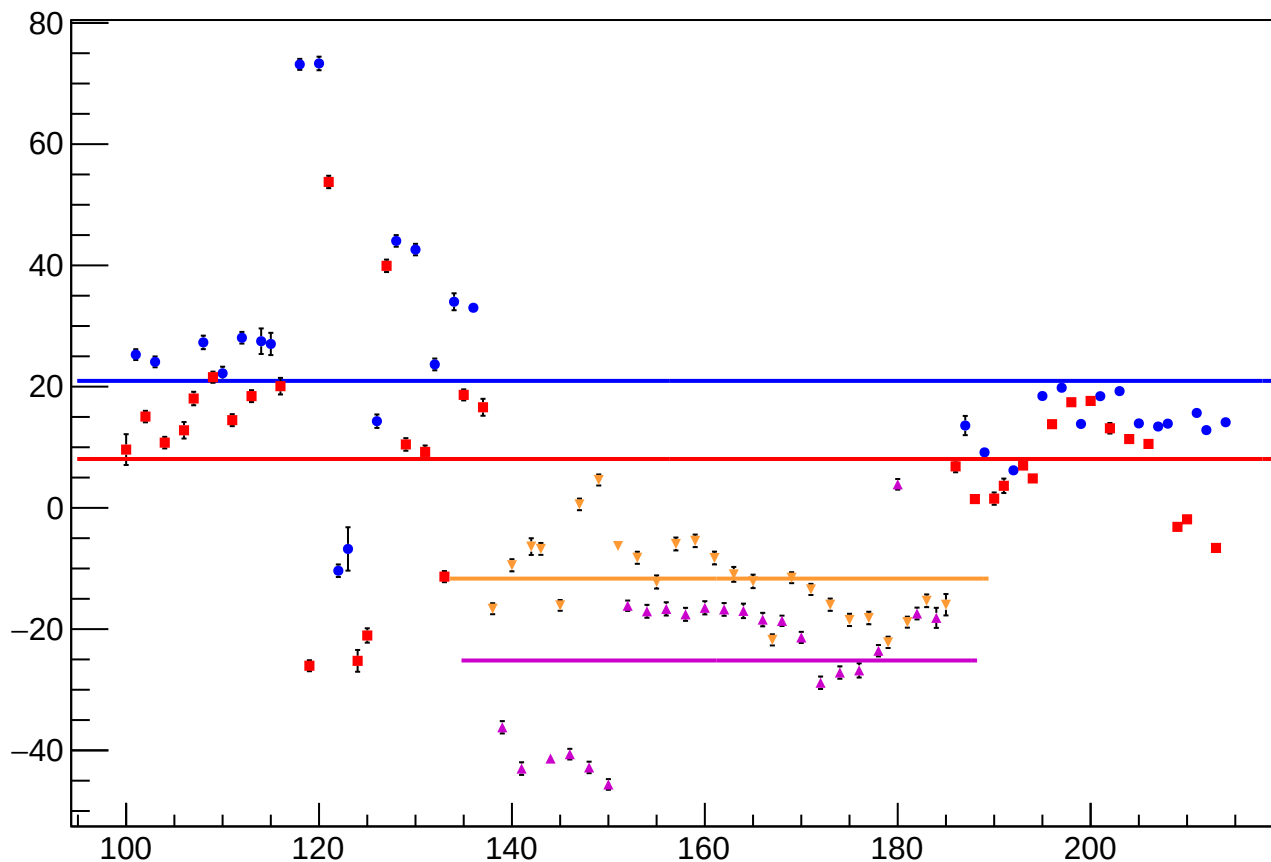
Right: 859.989 ± 0.105 $\chi^2/\text{NDF}: 725567.4/64$

In: 929.401 ± 0.113 $\chi^2/\text{NDF}: 946041.8/53$

Out: 927.943 ± 0.110 $\chi^2/\text{NDF}: 935481.1/58$

All: 928.653 ± 0.079 $\chi^2/\text{NDF}: 1881607.7/112$

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.950+/-0.150 χ^2/NDF : 9740.3/30

Left Out: -11.664+/-0.200 χ^2/NDF : 1147.4/24

Right Out: 8.066+/-0.147 χ^2/NDF : 8432.2/33

Left In: -25.174+/-0.207 χ^2/NDF : 3747.1/22

Left: -18.184+/-0.144 χ^2/NDF : 7090.4/47

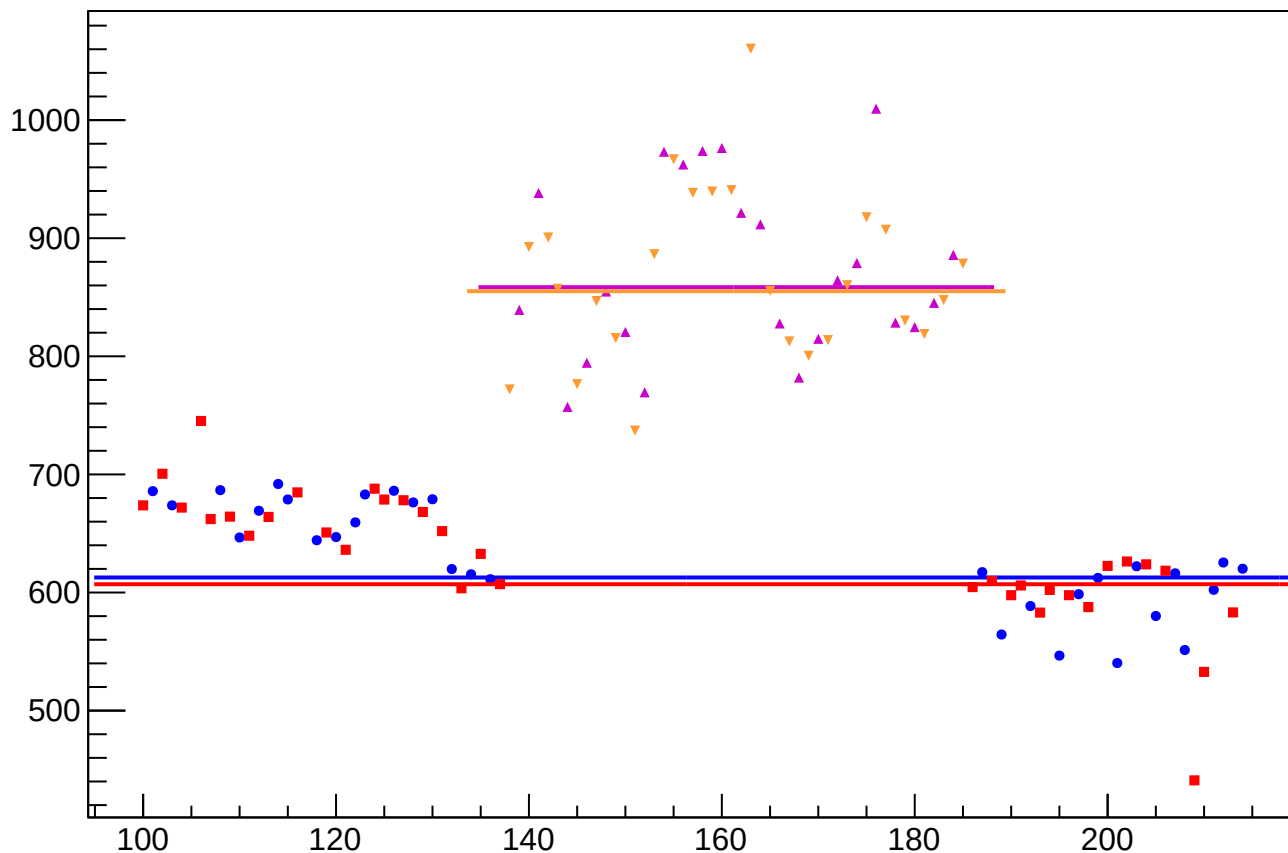
Right: 14.346+/-0.105 χ^2/NDF : 21929.9/64

In: 5.041+/-0.122 χ^2/NDF : 45893.9/53

Out: 1.174+/-0.118 χ^2/NDF : 15893.8/58

All: 3.053+/-0.085 χ^2/NDF : 62306.2/112

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.718 ± 0.106 $\chi^2/\text{NDF}: 165131.1/30$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 607.011 ± 0.104 $\chi^2/\text{NDF}: 362021.5/33$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

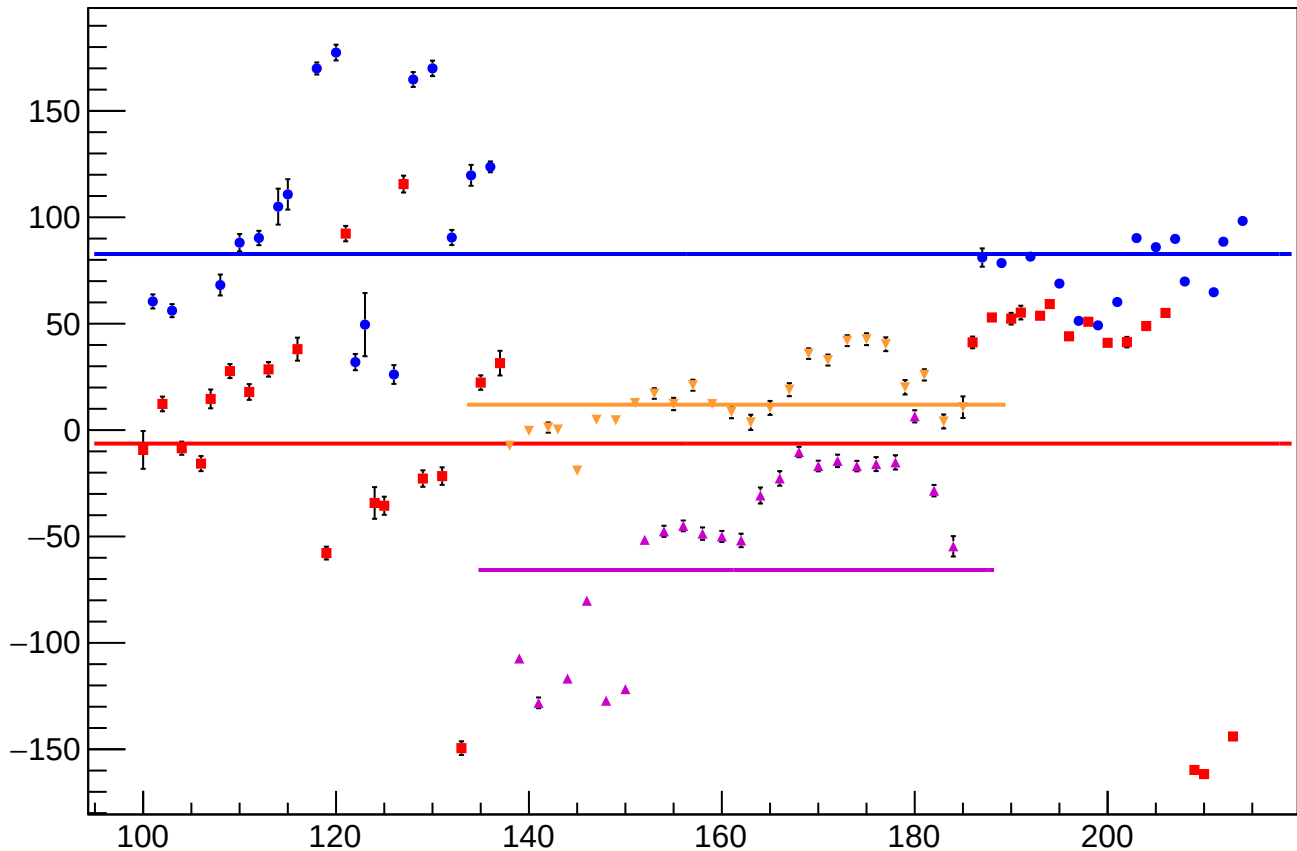
Right: 609.793 ± 0.074 $\chi^2/\text{NDF}: 528627.3/64$

In: 697.512 ± 0.086 $\chi^2/\text{NDF}: 2245540.4/53$

Out: 693.683 ± 0.084 $\chi^2/\text{NDF}: 2593037.4/58$

All: 695.543 ± 0.060 $\chi^2/\text{NDF}: 4839594.7/112$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.744 ± 0.453 $\chi^2/\text{NDF}: 4597.4/30$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: -6.344 ± 0.437 $\chi^2/\text{NDF}: 38944.8/33$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

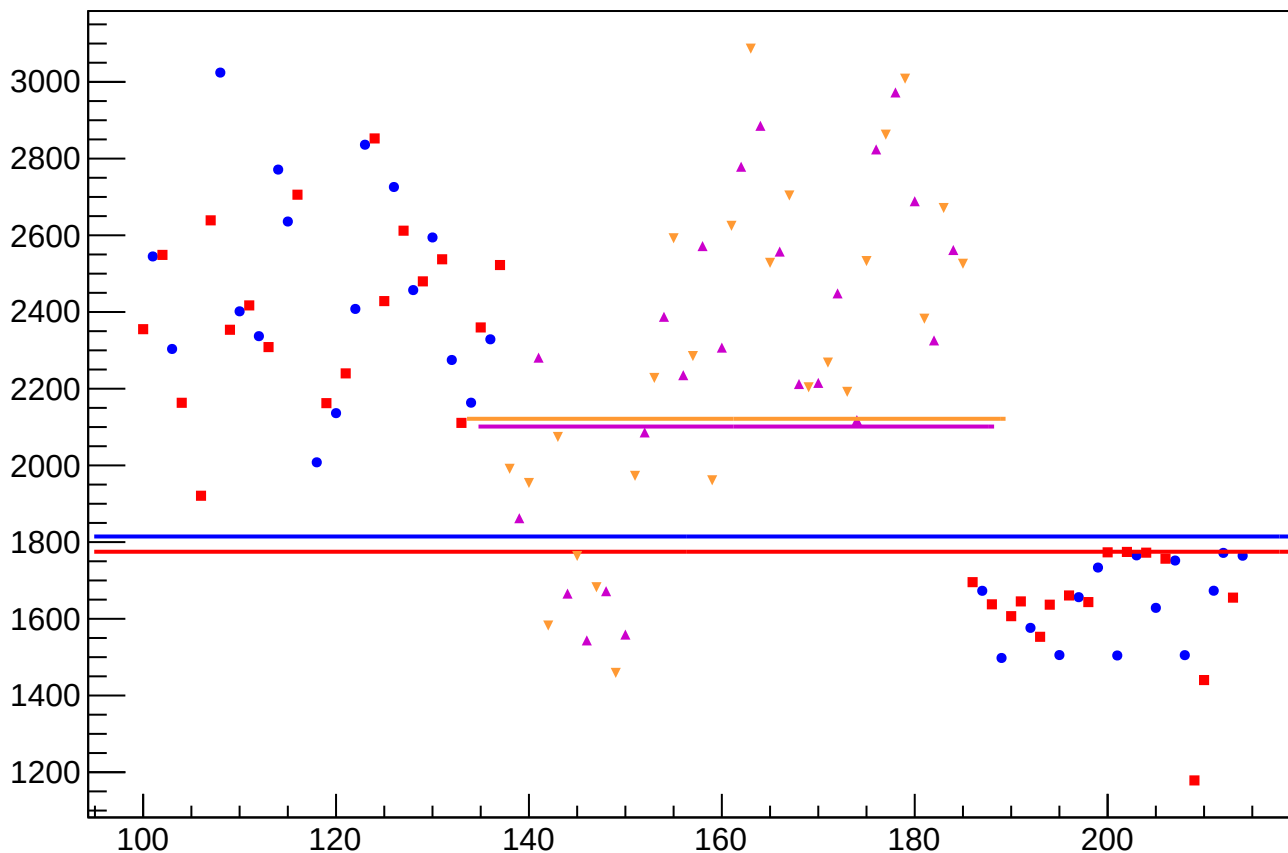
Right: 36.554 ± 0.315 $\chi^2/\text{NDF}: 63551.2/64$

In: 18.267 ± 0.341 $\chi^2/\text{NDF}: 58488.5/53$

Out: 1.479 ± 0.331 $\chi^2/\text{NDF}: 40670.3/58$

All: 9.609 ± 0.237 $\chi^2/\text{NDF}: 100407.9/112$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1814.638 ± 0.321 $\chi^2/\text{NDF}: 1181393.5/30$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1774.885 ± 0.309 $\chi^2/\text{NDF}: 1477433.2/33$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

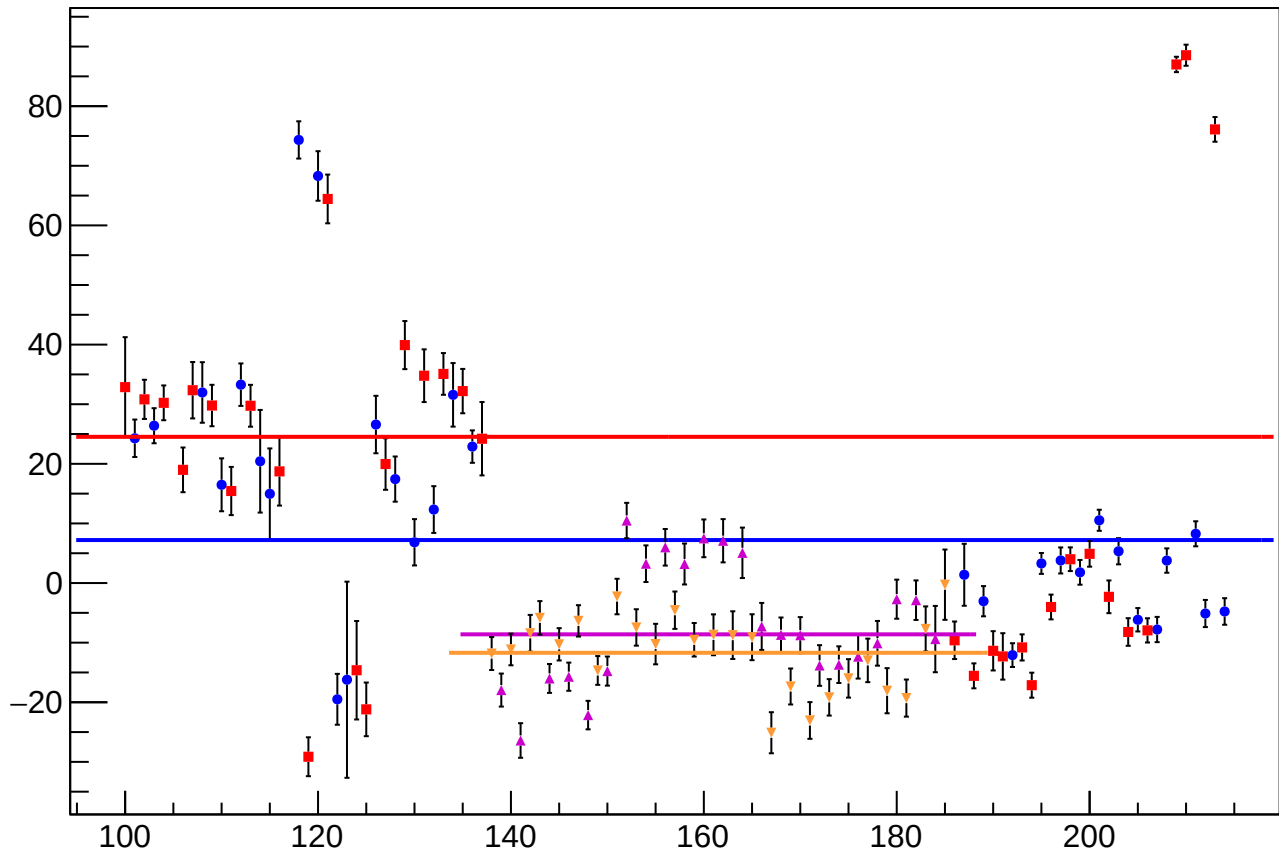
Right: 1794.027 ± 0.223 $\chi^2/\text{NDF}: 2666794.8/64$

In: 1939.117 ± 0.241 $\chi^2/\text{NDF}: 2888956.9/53$

Out: 1923.235 ± 0.234 $\chi^2/\text{NDF}: 3403827.1/58$

All: 1930.927 ± 0.168 $\chi^2/\text{NDF}: 6295019.7/111$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 7.212 $\pm$ 0.492 χ^2/NDF : 1242.2/30

Left Out: -11.700 $\pm$ 0.625 χ^2/NDF : 85.0/24

Right Out: 24.530 $\pm$ 0.472 χ^2/NDF : 7105.2/33

Left In: -8.606 $\pm$ 0.642 χ^2/NDF : 264.2/22

Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47

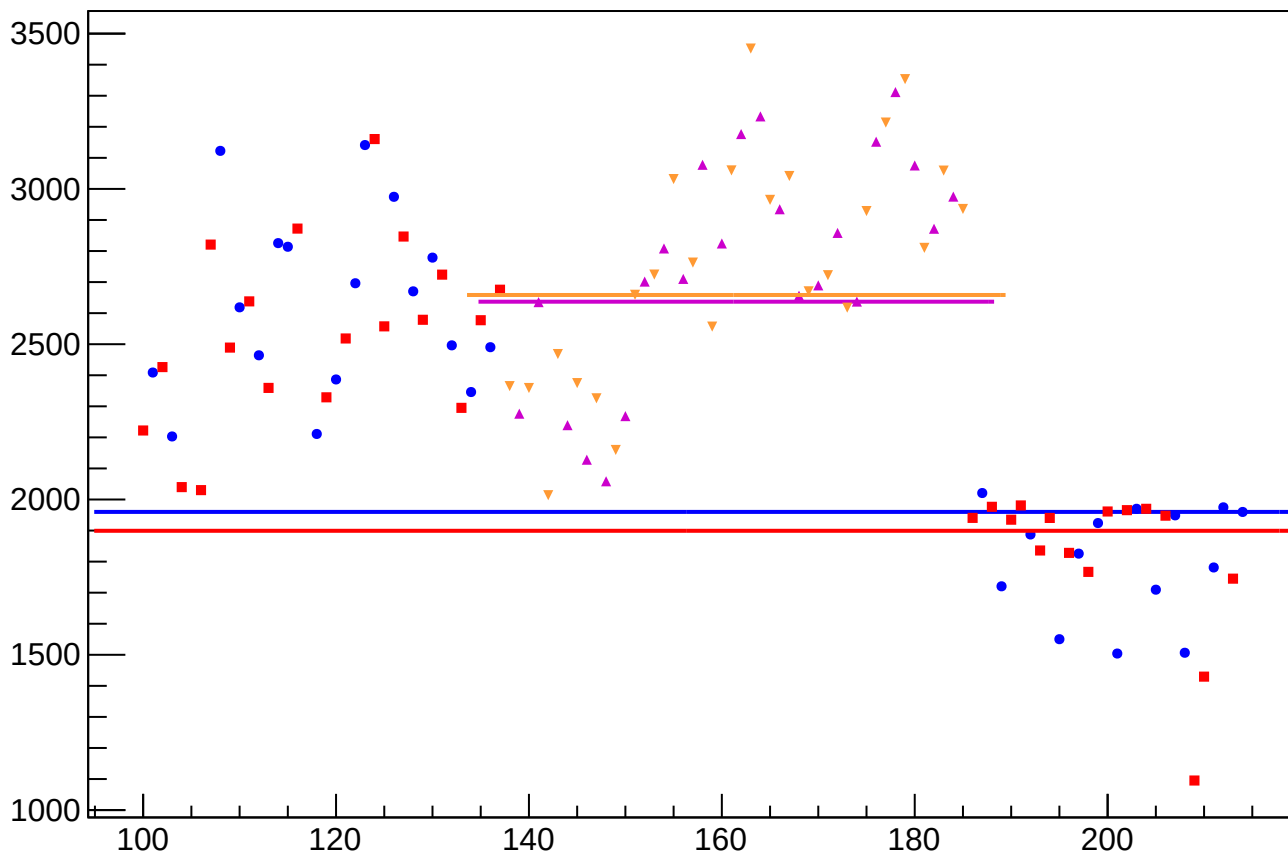
Right: 16.241 $\pm$ 0.340 χ^2/NDF : 8993.1/64

In: 1.357 $\pm$ 0.391 χ^2/NDF : 1888.8/53

Out: 11.401 $\pm$ 0.377 χ^2/NDF : 9329.7/58

All: 6.563 $\pm$ 0.271 χ^2/NDF : 11561.4/112

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1960.074 ± 0.348 $\chi^2/\text{NDF}: 1181136.5/30$

Left Out: 2658.486 ± 0.442 $\chi^2/\text{NDF}: 618133.8/24$

Right Out: 1899.269 ± 0.333 $\chi^2/\text{NDF}: 1823863.4/33$

Left In: 2636.885 ± 0.454 $\chi^2/\text{NDF}: 652894.5/22$

Left: 2647.967 ± 0.317 $\chi^2/\text{NDF}: 1272190.1/47$

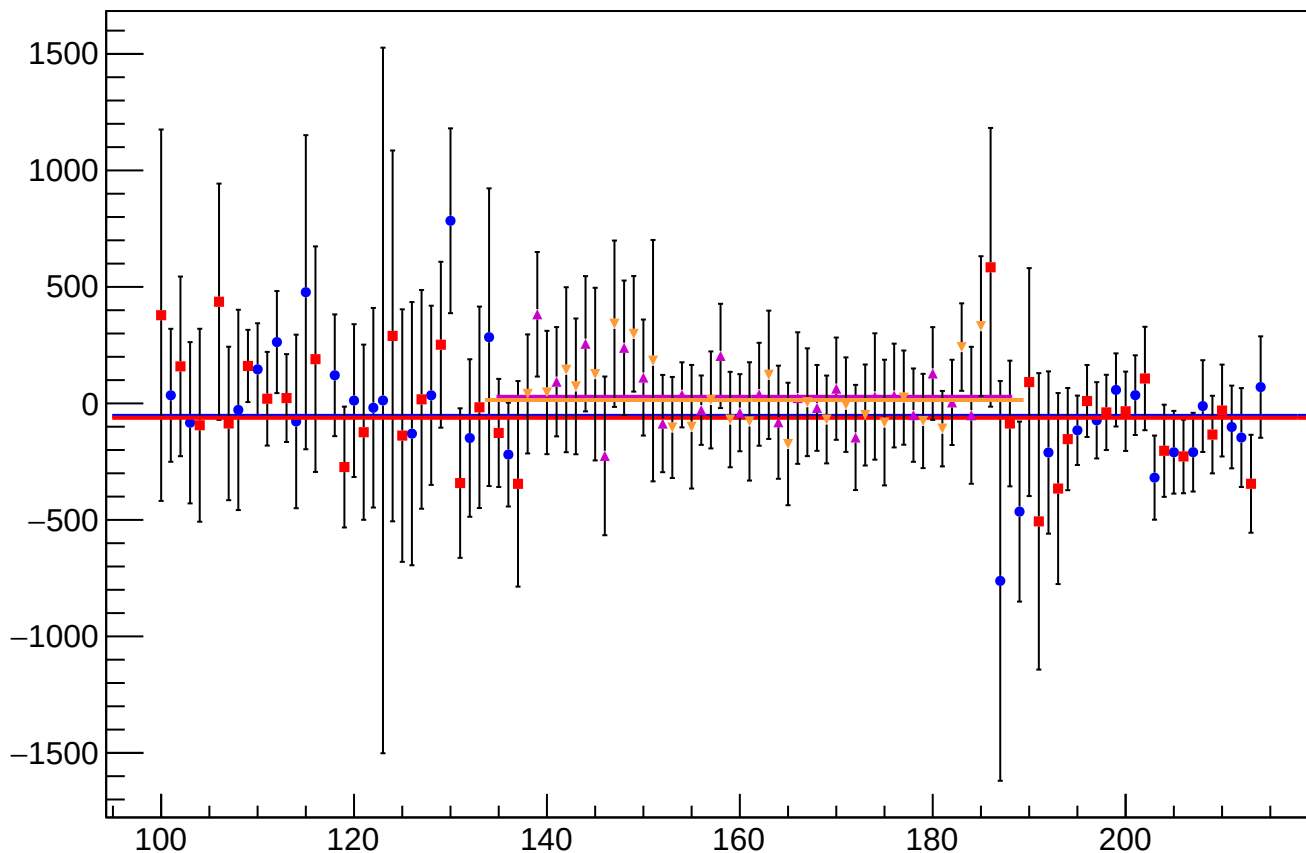
Right: 1928.373 ± 0.241 $\chi^2/\text{NDF}: 3020920.2/64$

In: 2210.592 ± 0.276 $\chi^2/\text{NDF}: 3234373.8/53$

Out: 2174.392 ± 0.266 $\chi^2/\text{NDF}: 4321096.7/11$

All: 2191.829 ± 0.192 $\chi^2/\text{NDF}: 7564376.7/11$

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.486 ± 43.400 $\chi^2/\text{NDF}: 17.2/30$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -61.770 ± 43.071 $\chi^2/\text{NDF}: 14.2/33$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

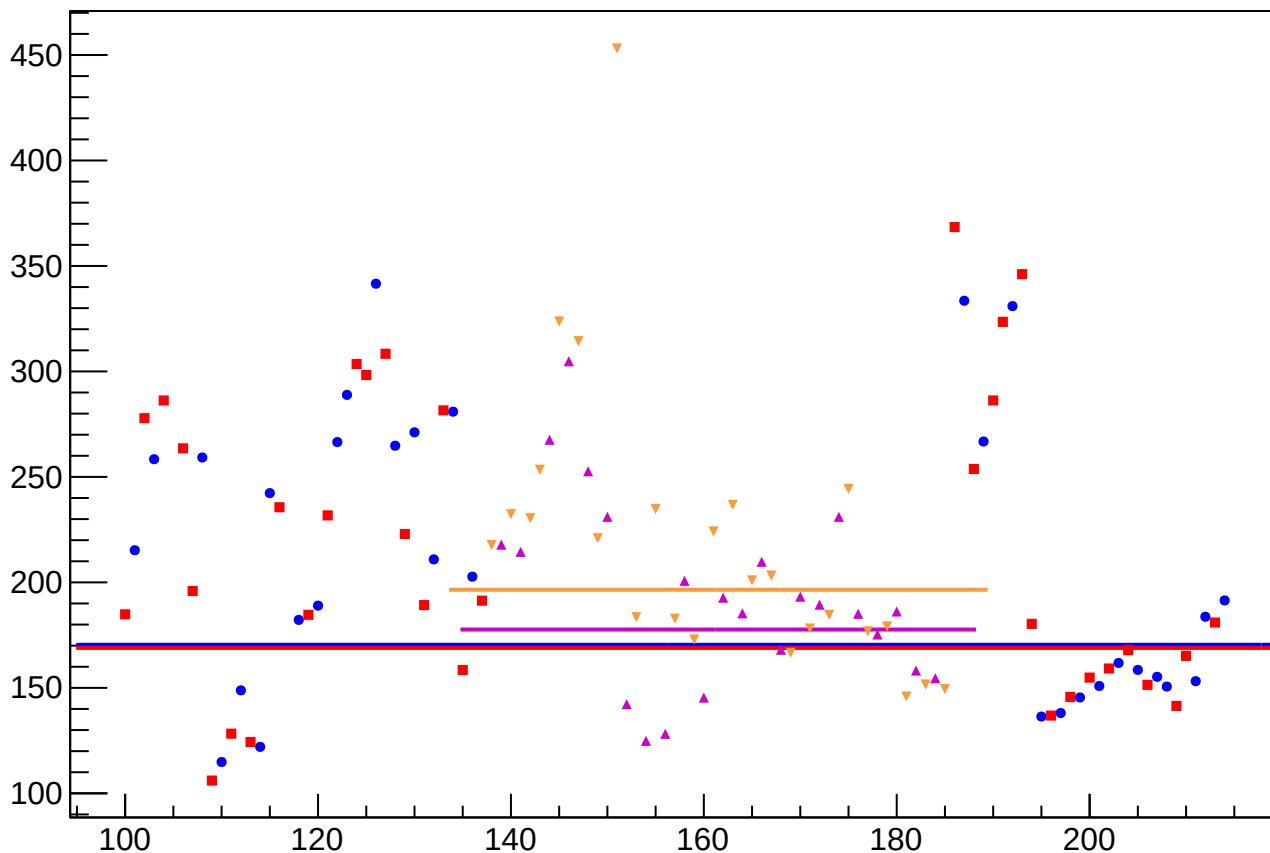
Right: -57.659 ± 30.571 $\chi^2/\text{NDF}: 31.4/64$

In: -13.739 ± 31.117 $\chi^2/\text{NDF}: 25.2/53$

Out: -27.369 ± 31.916 $\chi^2/\text{NDF}: 23.4/58$

All: -20.381 ± 22.280 $\chi^2/\text{NDF}: 48.7/112$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.404 $\pm$ 0.031 χ^2 /NDF: 2160495.0/30

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 168.930 $\pm$ 0.030 χ^2 /NDF: 2838483.8/33

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

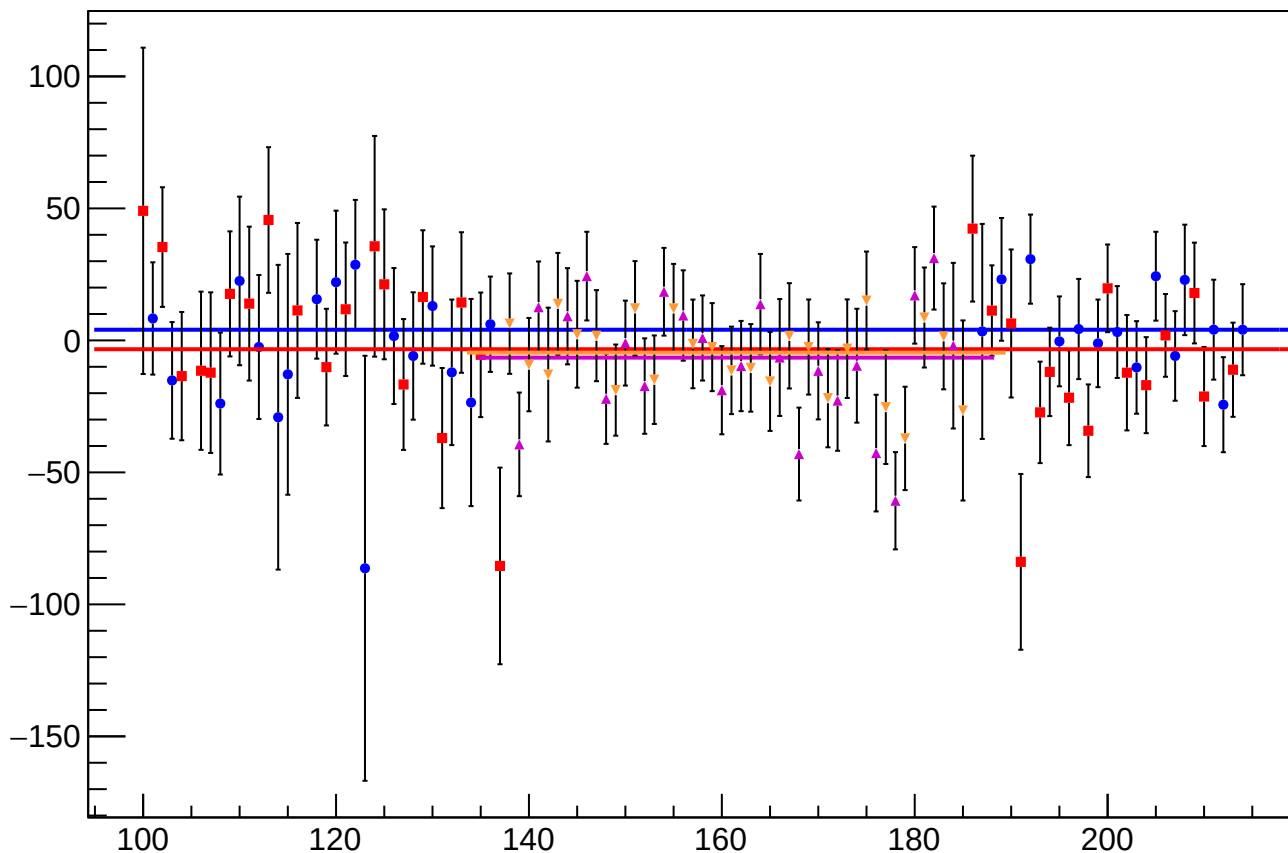
Right: 169.661 $\pm$ 0.022 χ^2 /NDF: 5000140.3/64

In: 173.922 $\pm$ 0.022 χ^2 /NDF:3818201.4/53

Out: 181.368 $\pm$ 0.023 χ^2 /NDF:4997872.7/58

All: 177.551 $\pm$ 0.016 χ^2 /NDF: 8871895.0/112

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.037 ± 3.922 $\chi^2/\text{NDF}: 16.0/30$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -3.351 ± 3.884 $\chi^2/\text{NDF}: 38.8/33$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

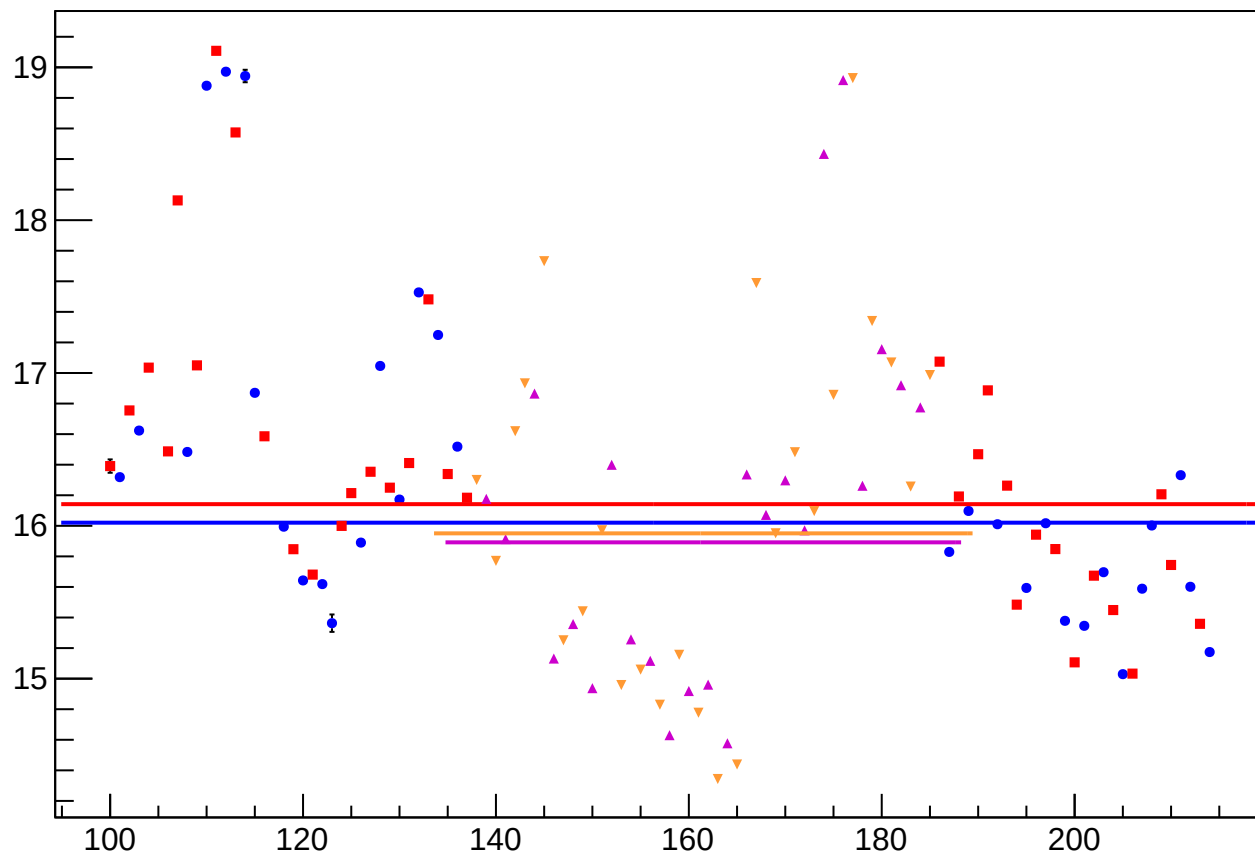
Right: 0.308 ± 2.760 $\chi^2/\text{NDF}: 56.6/64$

In: -1.373 ± 2.739 $\chi^2/\text{NDF}: 56.1/53$

Out: -4.025 ± 2.690 $\chi^2/\text{NDF}: 50.9/58$

All: -2.723 ± 1.919 $\chi^2/\text{NDF}: 107.5/112$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.021 $\pm$ 0.003 χ^2 /NDF: 84693.0/30

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.142 $\pm$ 0.003 χ^2 /NDF: 93124.8/33

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2 /NDF: 320794.5/47

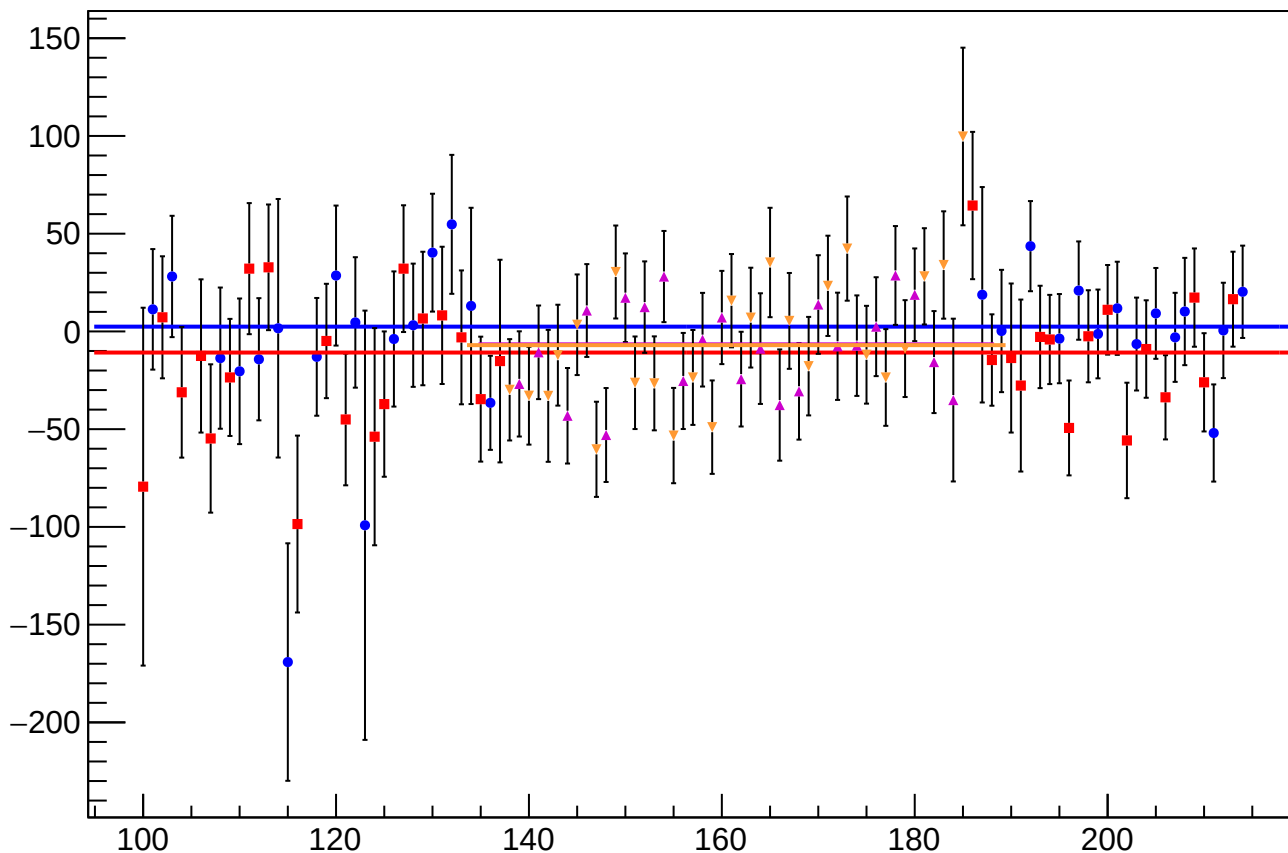
Right: 16.082 $\pm$ 0.002 χ^2 /NDF: 178781.9/64

In: 15.955 $\pm$ 0.002 χ^2 /NDF:232889.4/53

Out: 16.042 $\pm$ 0.002 χ^2 /NDF:269101.8/58

All: 15.999 $\pm$ 0.001 χ^2 /NDF: 503034.2/112

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.446 ± 5.254 $\chi^2/\text{NDF}: 27.5/30$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.806 ± 5.194 $\chi^2/\text{NDF}: 29.4/33$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

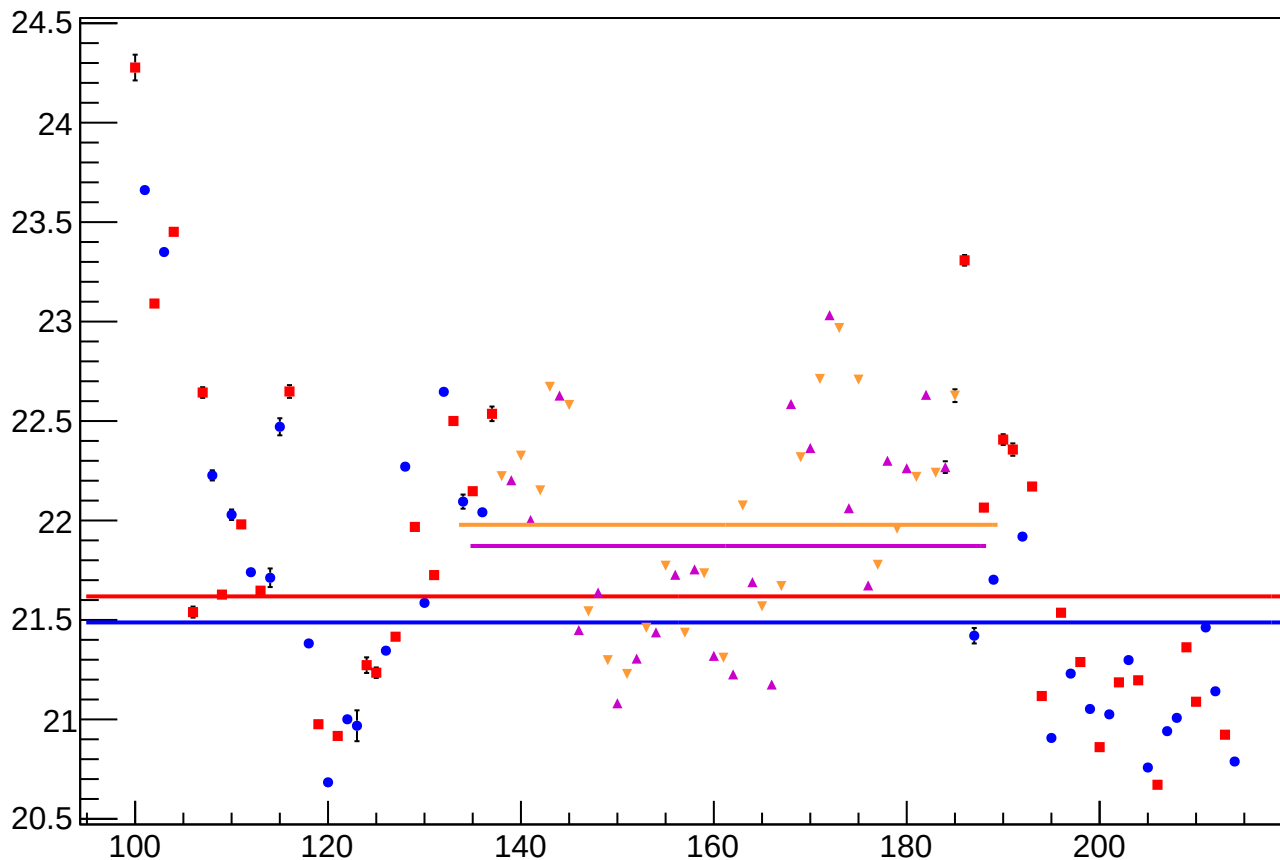
Right: -4.255 ± 3.694 $\chi^2/\text{NDF}: 60.1/64$

In: -2.085 ± 3.714 $\chi^2/\text{NDF}: 48.1/53$

Out: -8.885 ± 3.647 $\chi^2/\text{NDF}: 67.1/58$

All: -5.547 ± 2.602 $\chi^2/\text{NDF}: 116.9/112$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.487 ± 0.004 $\chi^2/\text{NDF}: 35160.0/30$

Left Out: 21.978 ± 0.004 $\chi^2/\text{NDF}: 19430.2/24$

Right Out: 21.618 ± 0.004 $\chi^2/\text{NDF}: 38047.0/33$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.926 ± 0.003 $\chi^2/\text{NDF}: 40377.5/47$

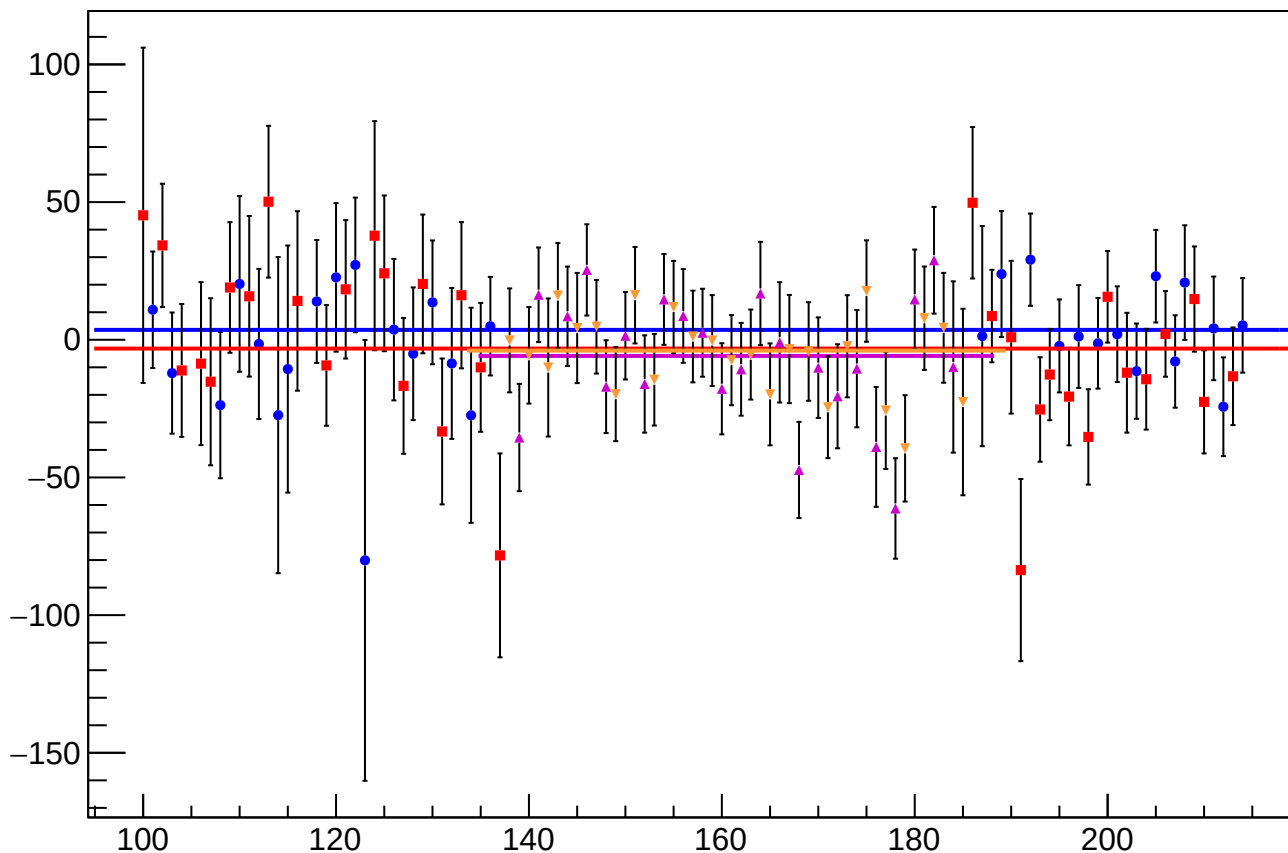
Right: 21.554 ± 0.003 $\chi^2/\text{NDF}: 73835.2/64$

In: 21.680 ± 0.003 $\chi^2/\text{NDF}: 61038.4/53$

Out: 21.801 ± 0.003 $\chi^2/\text{NDF}: 62347.9/58$

All: 21.741 ± 0.002 $\chi^2/\text{NDF}: 124471.2/112$

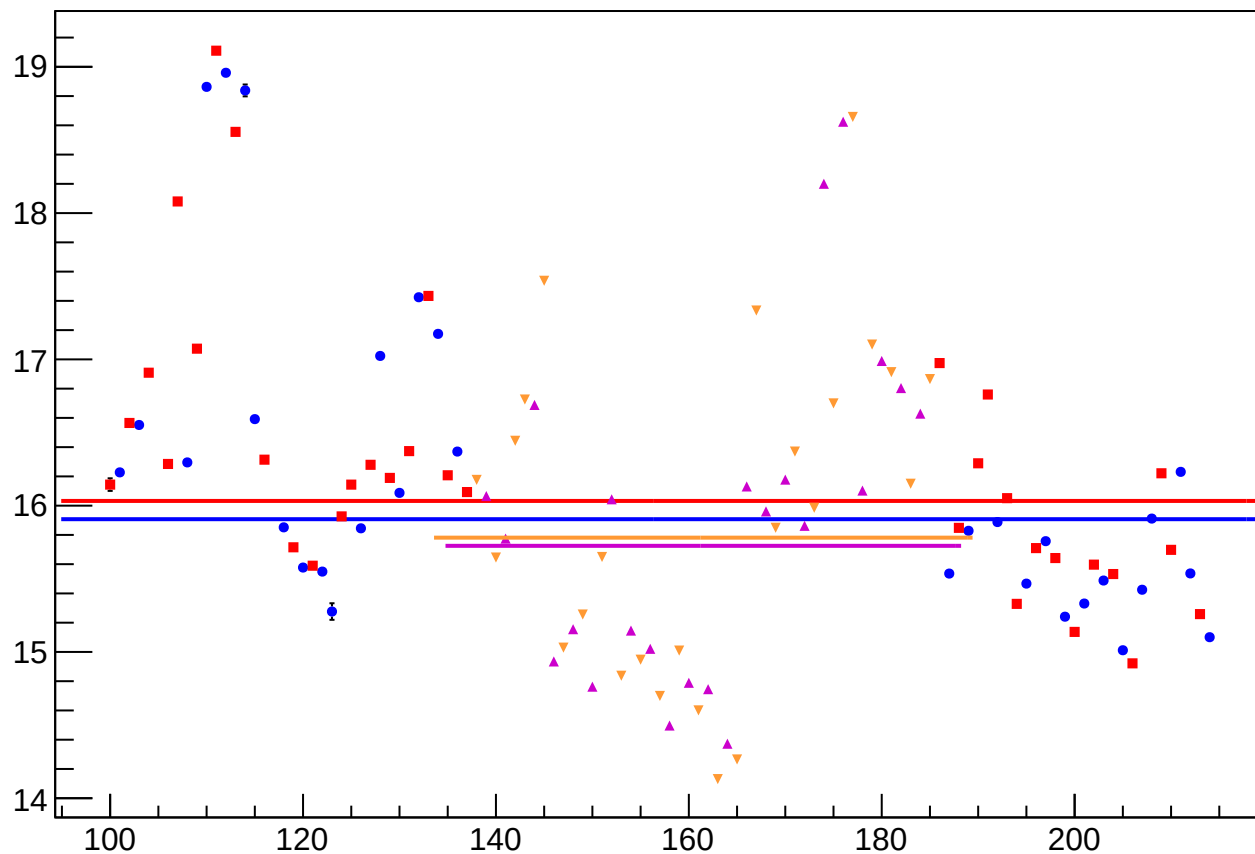
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.594 ± 3.894 $\chi^2/\text{NDF}: 15.3/30$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -3.196 ± 3.858 $\chi^2/\text{NDF}: 39.4/33$
 Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$
 Right: 0.167 ± 2.741 $\chi^2/\text{NDF}: 56.2/64$
 In: -1.266 ± 2.715 $\chi^2/\text{NDF}: 54.5/53$
 Out: -3.578 ± 2.666 $\chi^2/\text{NDF}: 53.4/58$
 All: -2.443 ± 1.902 $\chi^2/\text{NDF}: 108.3/112$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.907 $\pm$ 0.003 χ^2/NDF : 86919.3/30

Left Out: 15.781 $\pm$ 0.003 χ^2/NDF :172894.3/24

Right Out: 16.032 $\pm$ 0.003 χ^2/NDF : 95405.6/33

Left In: 15.725 $\pm$ 0.003 χ^2/NDF :145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2/NDF : 318948.8/47

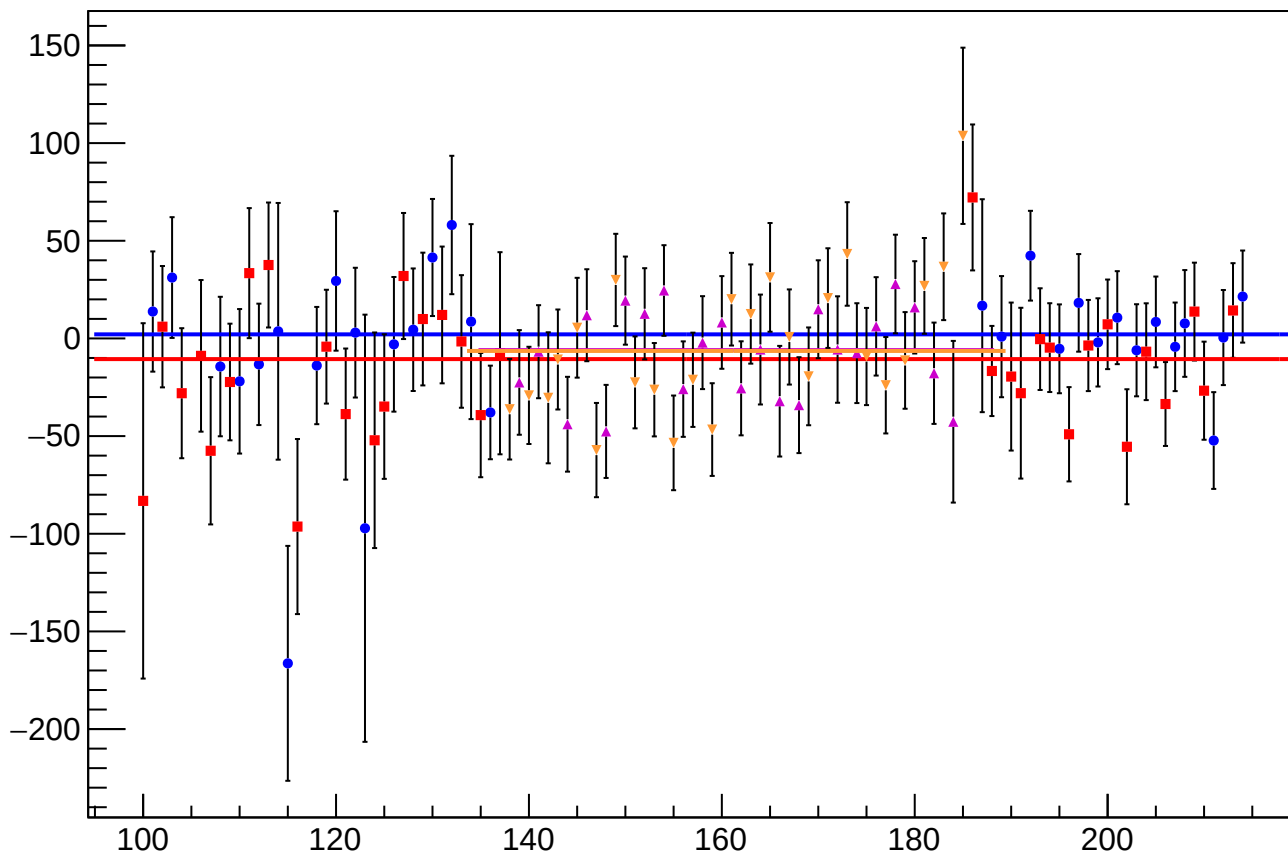
Right: 15.970 $\pm$ 0.002 χ^2/NDF : 183361.5/64

In: 15.814 $\pm$ 0.002 χ^2/NDF :234996.9/53

Out: 15.901 $\pm$ 0.002 χ^2/NDF :272722.2/58

All: 15.858 $\pm$ 0.001 χ^2/NDF : 508770.4/112

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.087 ± 5.231 $\chi^2/\text{NDF}: 28.1/30$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.580 ± 5.169 $\chi^2/\text{NDF}: 30.3/33$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

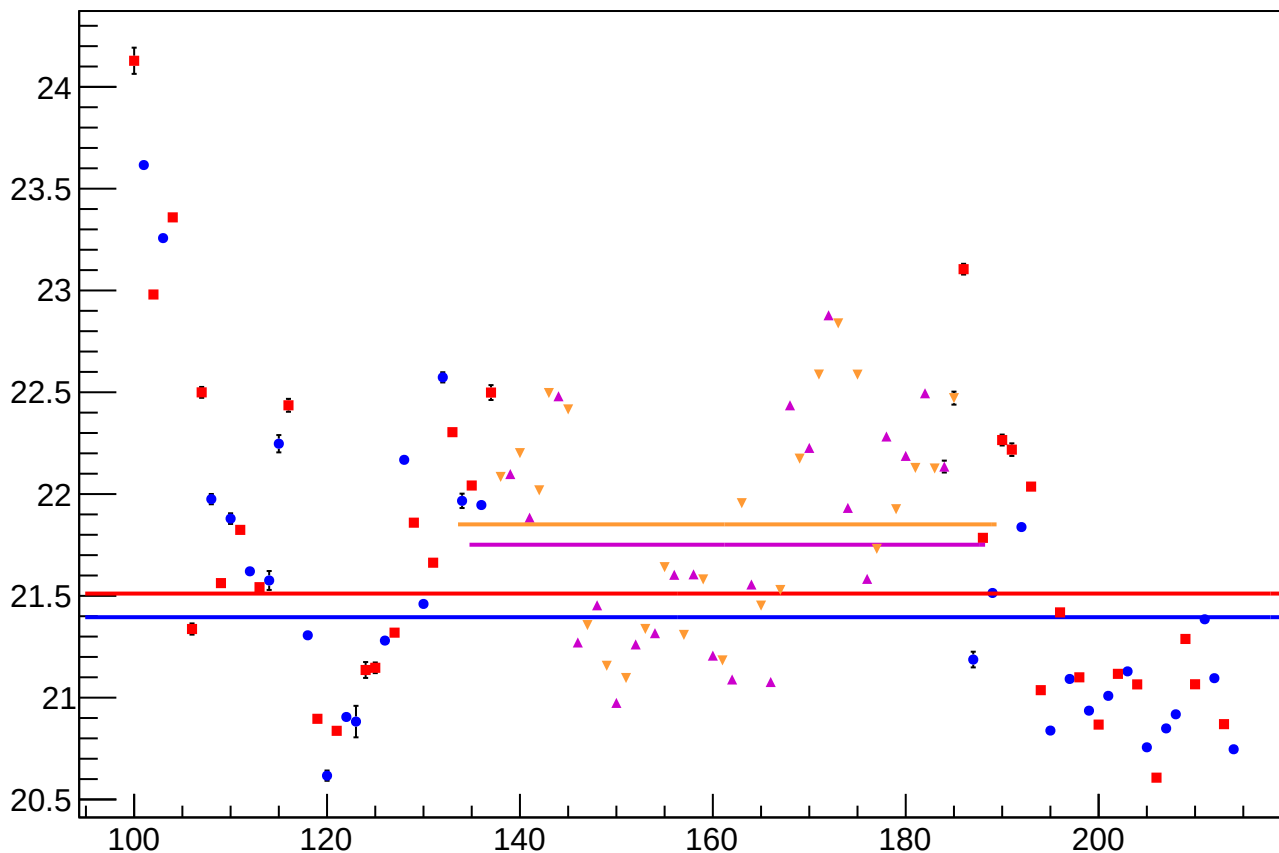
Right: -4.323 ± 3.677 $\chi^2/\text{NDF}: 61.4/64$

In: -1.952 ± 3.696 $\chi^2/\text{NDF}: 47.9/53$

Out: -8.461 ± 3.627 $\chi^2/\text{NDF}: 68.0/58$

All: -5.268 ± 2.589 $\chi^2/\text{NDF}: 117.5/112$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.395 ± 0.004 $\chi^2/\text{NDF}: 34293.7/30$

Left Out: 21.851 ± 0.004 $\chi^2/\text{NDF}: 19631.8/24$

Right Out: 21.511 ± 0.004 $\chi^2/\text{NDF}: 35308.4/33$

Left In: 21.751 ± 0.004 $\chi^2/\text{NDF}: 20516.3/22$

Left: 21.802 ± 0.003 $\chi^2/\text{NDF}: 40523.6/47$

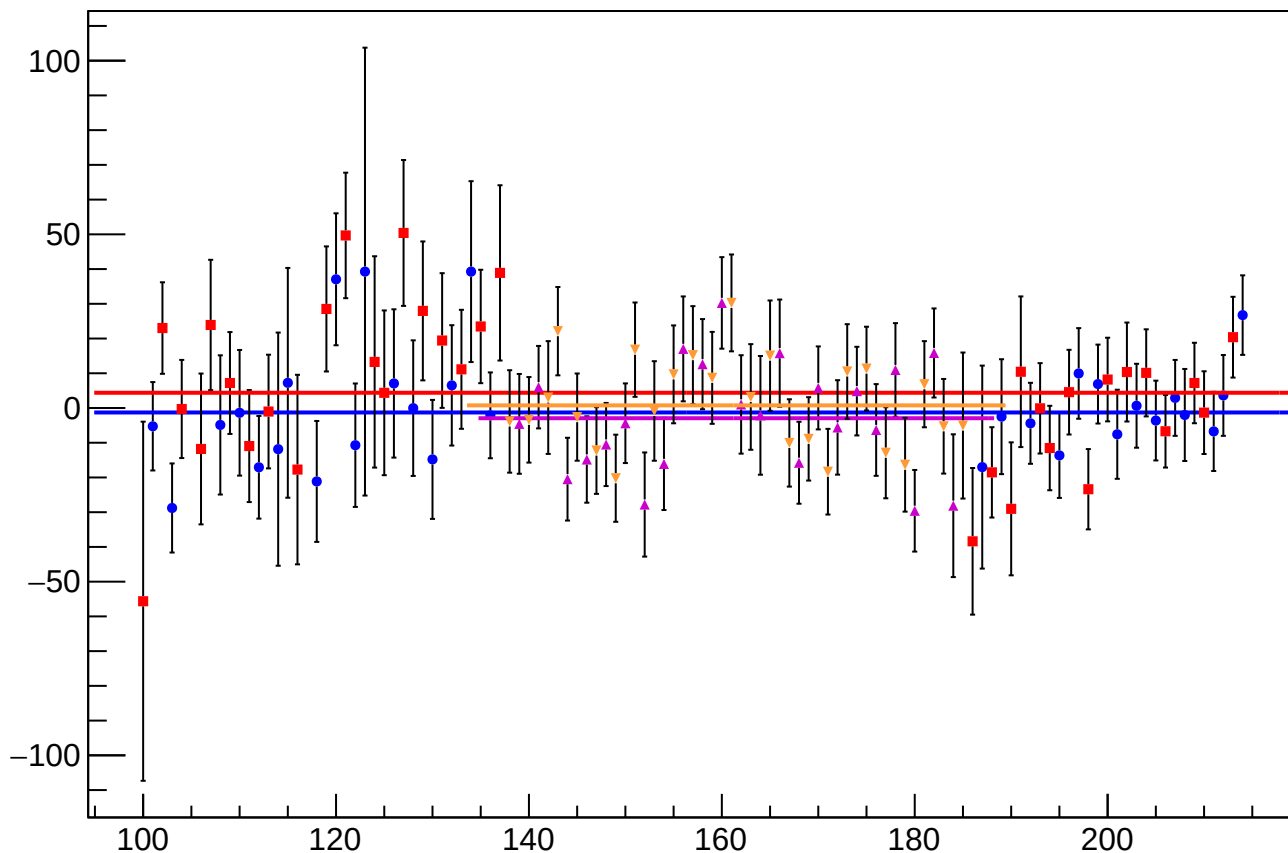
Right: 21.454 ± 0.003 $\chi^2/\text{NDF}: 70100.0/64$

In: 21.574 ± 0.003 $\chi^2/\text{NDF}: 59447.9/53$

Out: 21.684 ± 0.003 $\chi^2/\text{NDF}: 59329.3/58$

All: 21.630 ± 0.002 $\chi^2/\text{NDF}: 119683.4/112$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.289 ± 2.644 χ^2/NDF : 25.0/30

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 4.391 ± 2.635 χ^2/NDF : 46.9/33

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

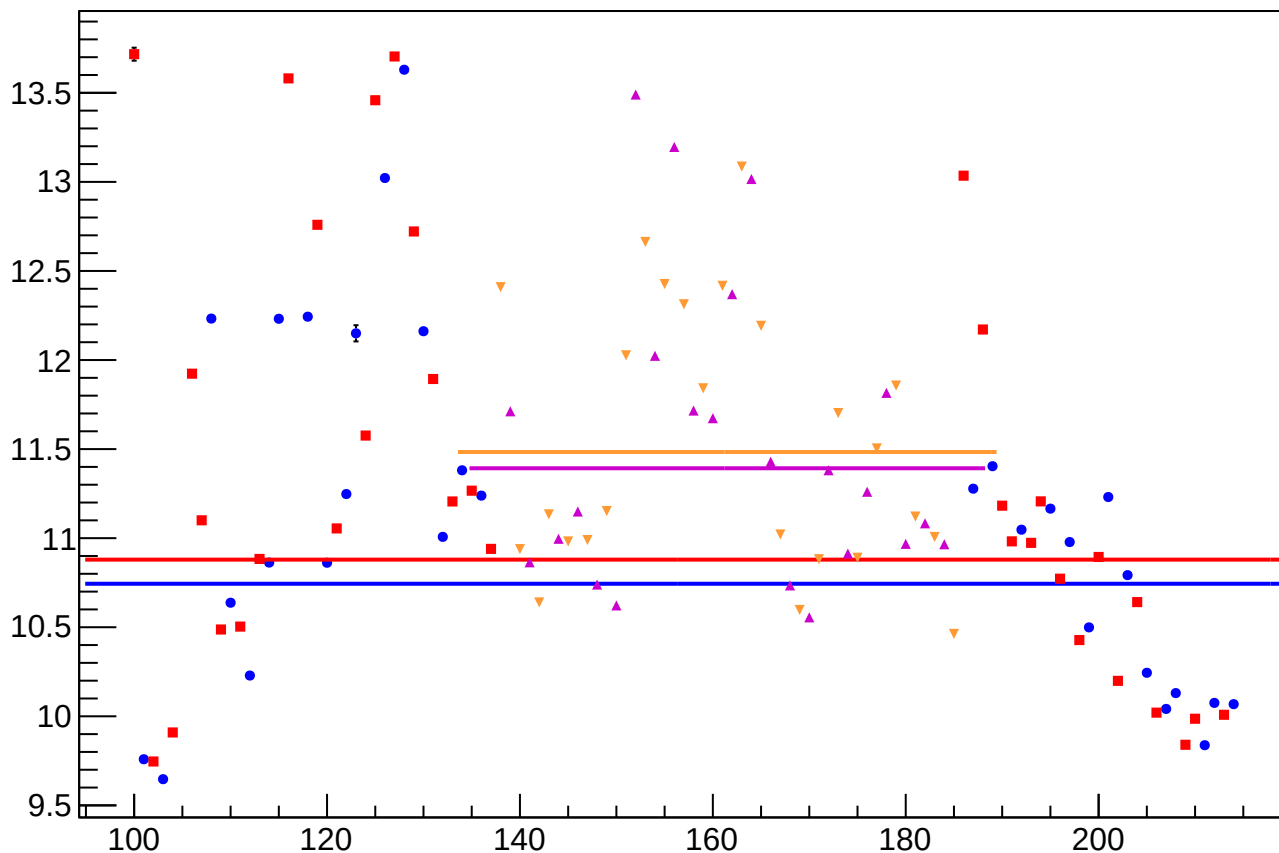
Right: 1.561 ± 1.867 χ^2/NDF : 74.2/64

In: -2.082 ± 1.909 χ^2/NDF : 56.1/53

Out: 2.618 ± 1.885 χ^2/NDF : 71.6/58

All: 0.297 ± 1.341 χ^2/NDF : 130.8/112

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.744+/-0.002 χ^2/NDF : 201361.8/30

Left Out: 11.484+/-0.002 χ^2/NDF :129805.4/24

Right Out: 10.880+/-0.002 χ^2/NDF : 267701.1/33

Left In: 11.392+/-0.002 χ^2/NDF :150493.3/22

Left: 11.439+/-0.001 χ^2/NDF : 281419.2/47

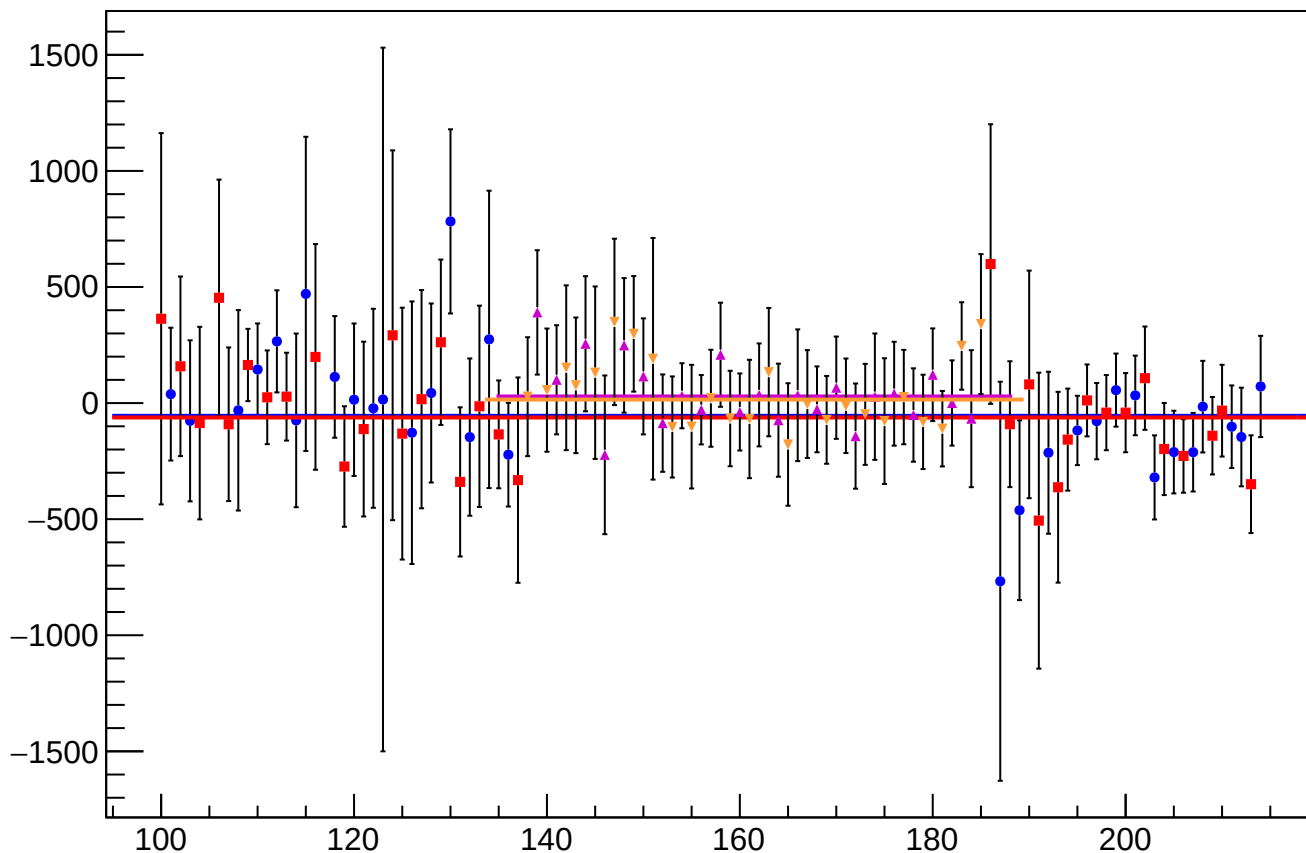
Right: 10.812+/-0.001 χ^2/NDF : 471697.4/64

In: 11.055+/-0.001 χ^2/NDF :409451.9/53

Out: 11.174+/-0.001 χ^2/NDF :448822.3/58

All: 11.115+/-0.001 χ^2/NDF : 862267.0/112

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.942 ± 43.504 χ^2/NDF : 17.1/30

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -62.126 ± 43.184 χ^2/NDF : 14.4/33

Left In: 28.500 ± 44.797 χ^2/NDF : 6.4/22

Left: 22.235 ± 32.656 χ^2/NDF : 14.4/47

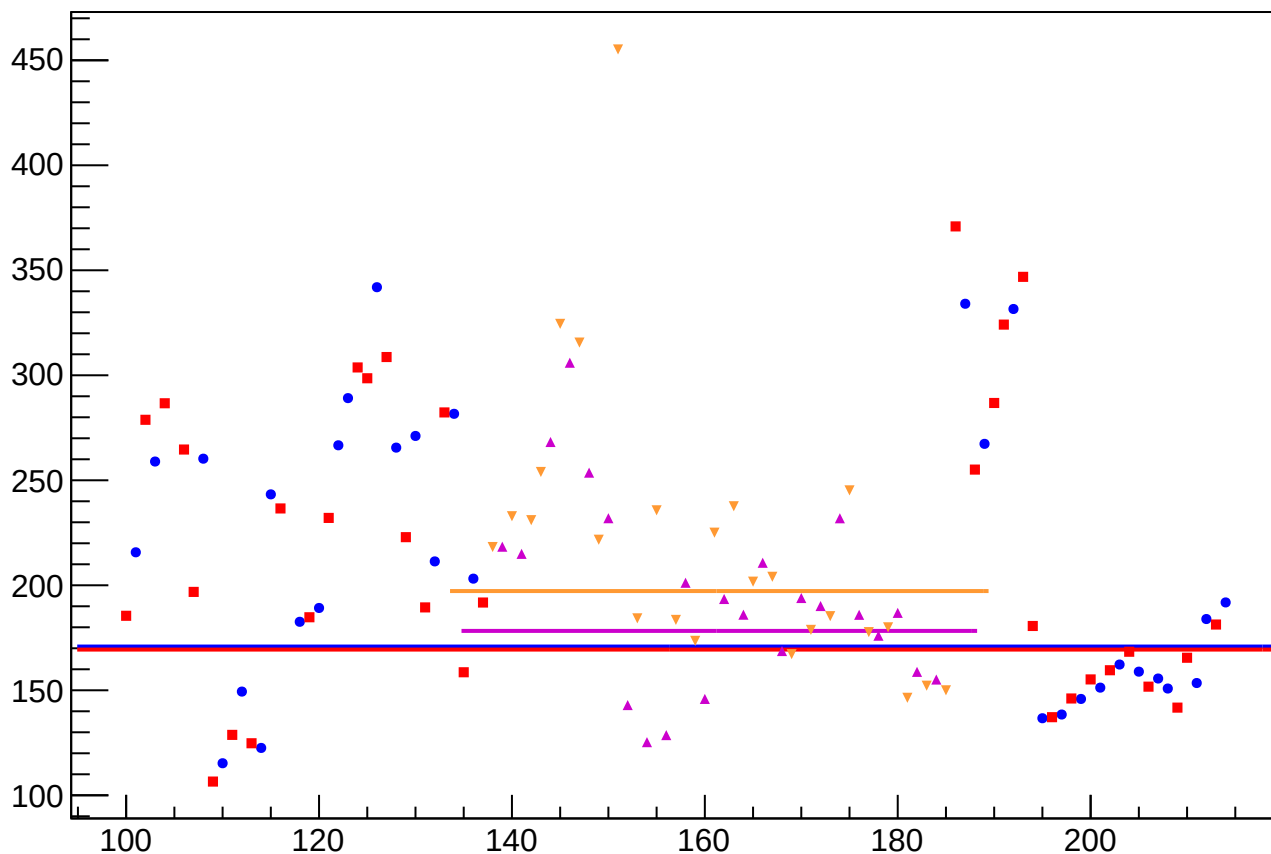
Right: -58.561 ± 30.648 χ^2/NDF : 31.6/64

In: -14.442 ± 31.209 χ^2/NDF : 25.3/53

Out: -27.331 ± 32.015 χ^2/NDF : 23.9/58

All: -20.722 ± 22.348 χ^2/NDF : 49.3/112

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.827+/-0.031 χ^2/NDF : 2155603.1/30

Left Out: 197.249+/-0.034 χ^2/NDF : 1786808.1/24

Right Out: 169.380+/-0.031 χ^2/NDF : 2835072.6/33

Left In: 178.277+/-0.032 χ^2/NDF : 1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

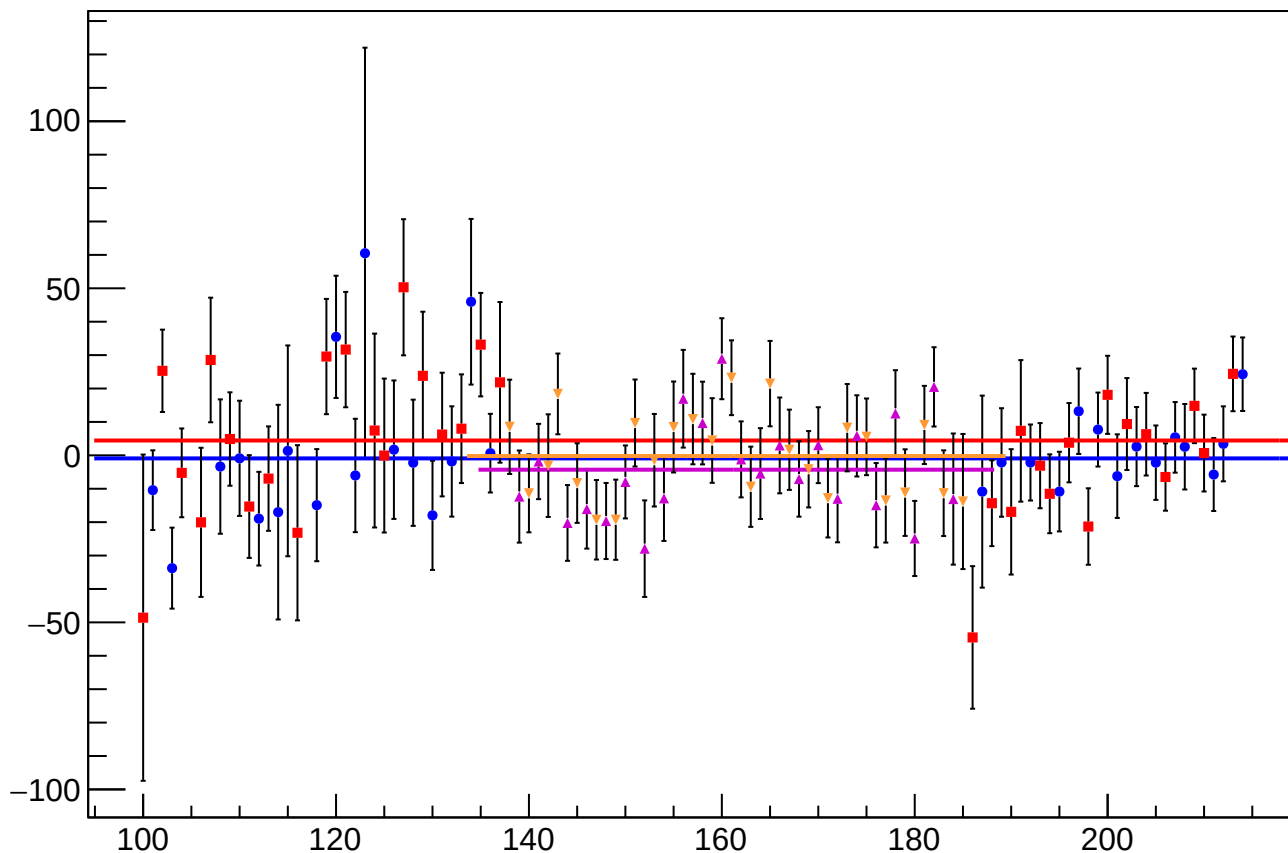
Right: 170.098+/-0.022 χ^2/NDF : 4991789.7/64

In: 174.443+/-0.022 χ^2/NDF : 3812985.7/53

Out: 181.932+/-0.023 χ^2/NDF : 4997031.0/58

All: 178.092+/-0.016 χ^2/NDF : 8866130.8/112

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.917 ± 2.551 χ^2/NDF : 29.3/30

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 4.442 ± 2.549 χ^2/NDF : 50.7/33

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

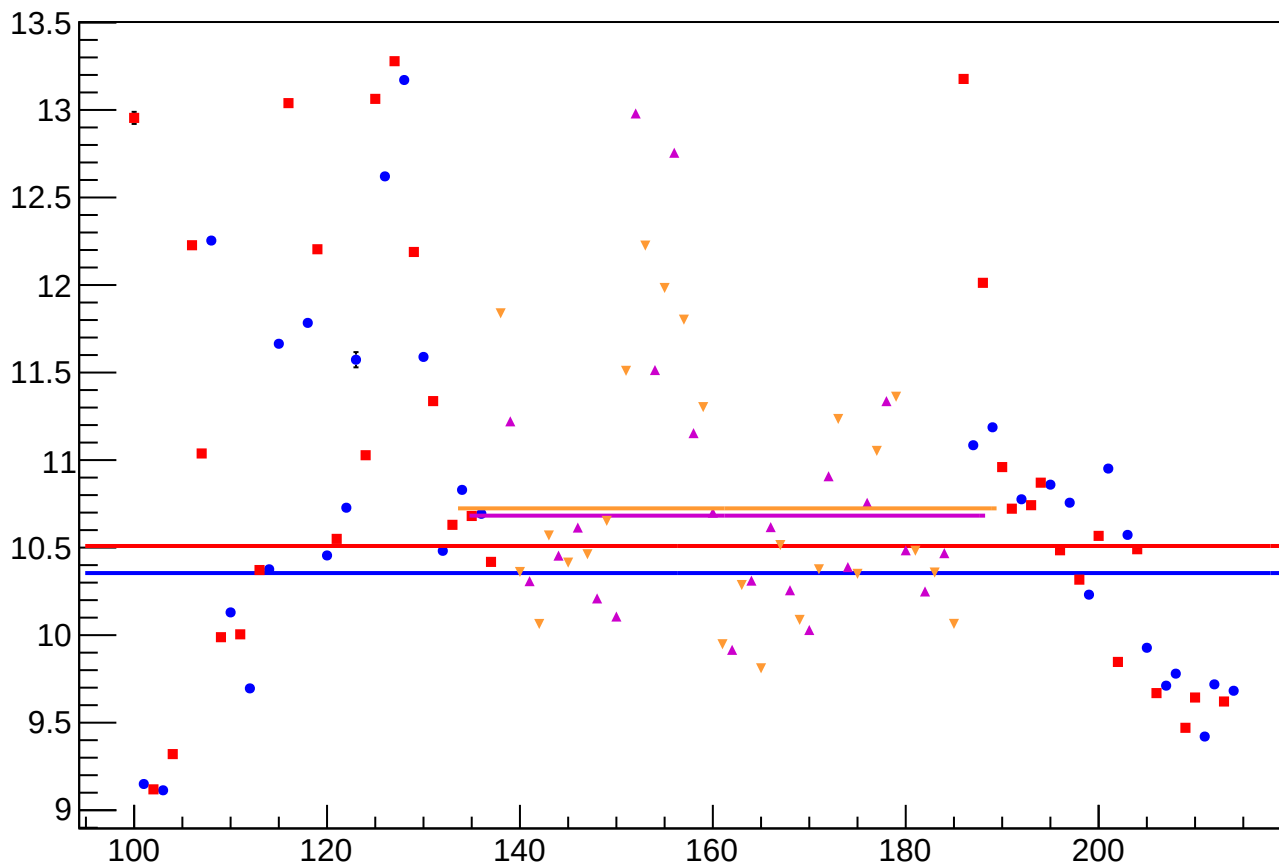
Right: 1.765 ± 1.803 χ^2/NDF : 82.2/64

In: -2.582 ± 1.817 χ^2/NDF : 61.7/53

Out: 2.092 ± 1.793 χ^2/NDF : 76.9/58

All: -0.214 ± 1.276 χ^2/NDF : 142.0/112

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.355+/-0.002 χ^2/NDF : 229254.1/30

Left Out: 10.724+/-0.002 χ^2/NDF : 132558.9/24

Right Out: 10.509+/-0.002 χ^2/NDF : 307789.8/33

Left In: 10.683+/-0.002 χ^2/NDF : 147835.6/22

Left: 10.704+/-0.001 χ^2/NDF : 280658.8/47

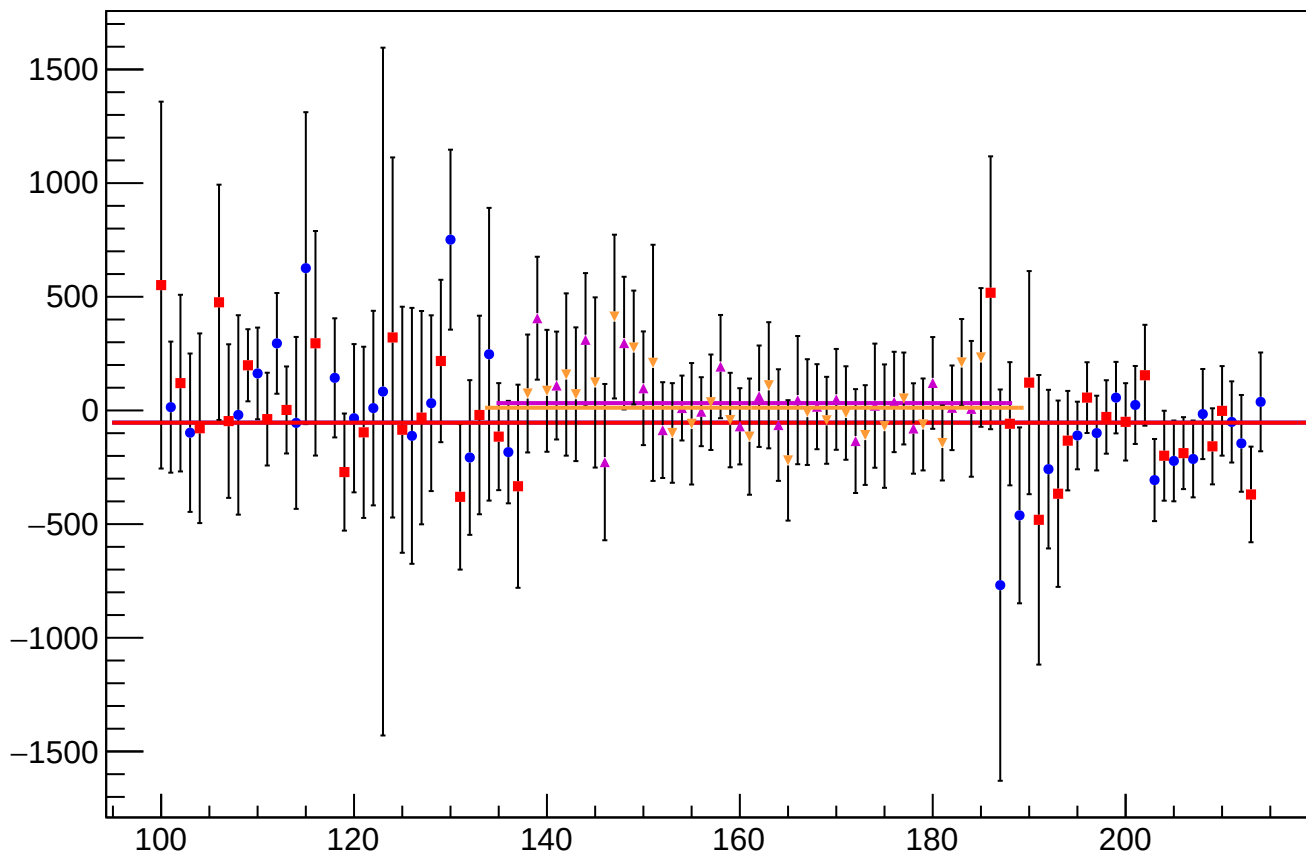
Right: 10.432+/-0.001 χ^2/NDF : 540722.6/64

In: 10.516+/-0.001 χ^2/NDF : 393375.6/53

Out: 10.618+/-0.001 χ^2/NDF : 447528.2/58

All: 10.568+/-0.001 χ^2/NDF : 844071.8/112

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.431 ± 43.573 $\chi^2/\text{NDF}: 17.4/30$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -53.848 ± 43.313 $\chi^2/\text{NDF}: 15.5/33$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

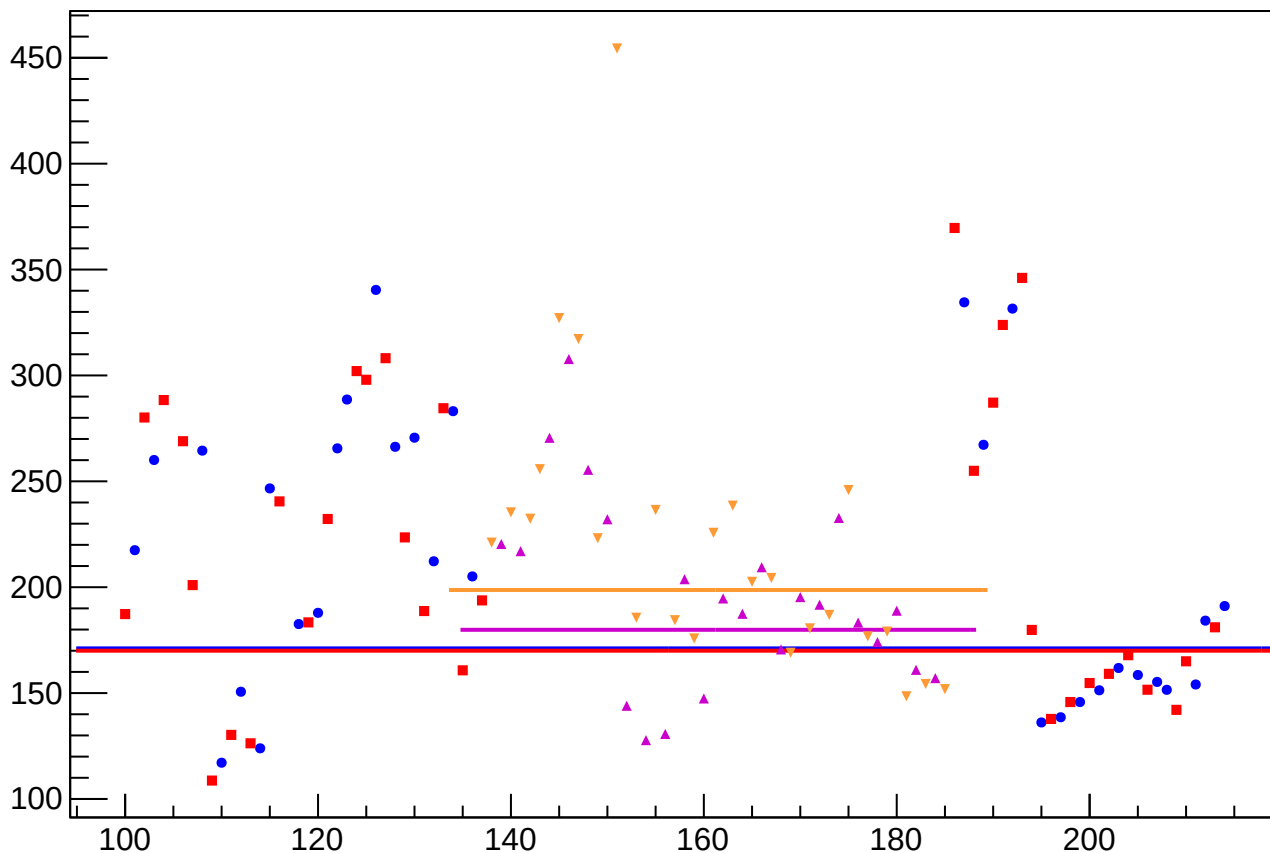
Right: -53.641 ± 30.718 $\chi^2/\text{NDF}: 33.0/64$

In: -12.038 ± 31.355 $\chi^2/\text{NDF}: 26.2/53$

Out: -24.359 ± 32.163 $\chi^2/\text{NDF}: 24.2/58$

All: -18.042 ± 22.452 $\chi^2/\text{NDF}: 50.5/112$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.106 $\pm$ 0.031 χ^2 /NDF: 2152002.4/30

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 170.023 $\pm$ 0.031 χ^2 /NDF: 2794196.9/33

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

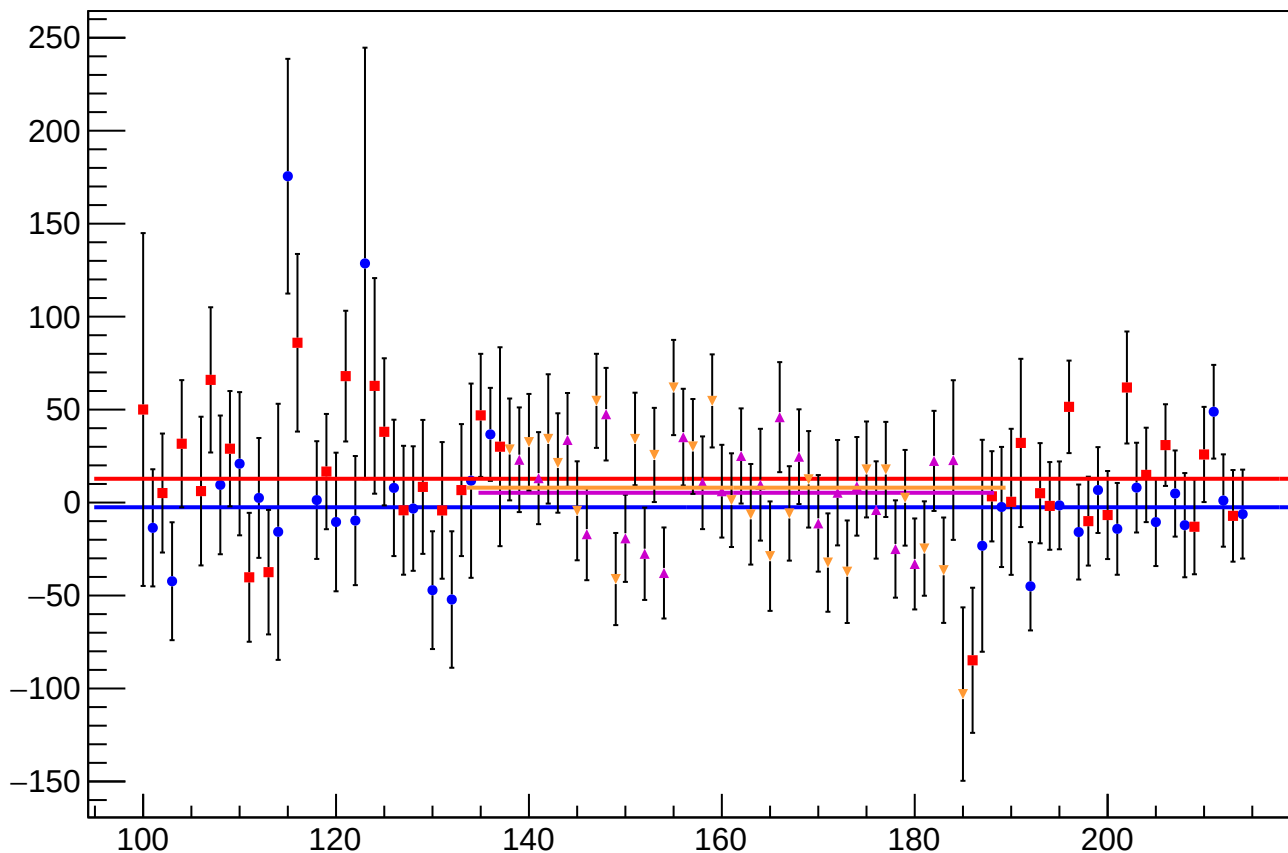
Right: 170.562 $\pm$ 0.022 χ^2 /NDF: 4946820.9/64

In: 175.340 $\pm$ 0.022 χ^2 /NDF:3771793.7/53

Out: 182.885 $\pm$ 0.023 χ^2 /NDF:4946640.8/58

All: 179.016 $\pm$ 0.016 χ^2 /NDF: 8774860.4/112

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.525 ± 5.404 χ^2/NDF : 26.7/30

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 12.797 ± 5.356 χ^2/NDF : 31.3/33

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

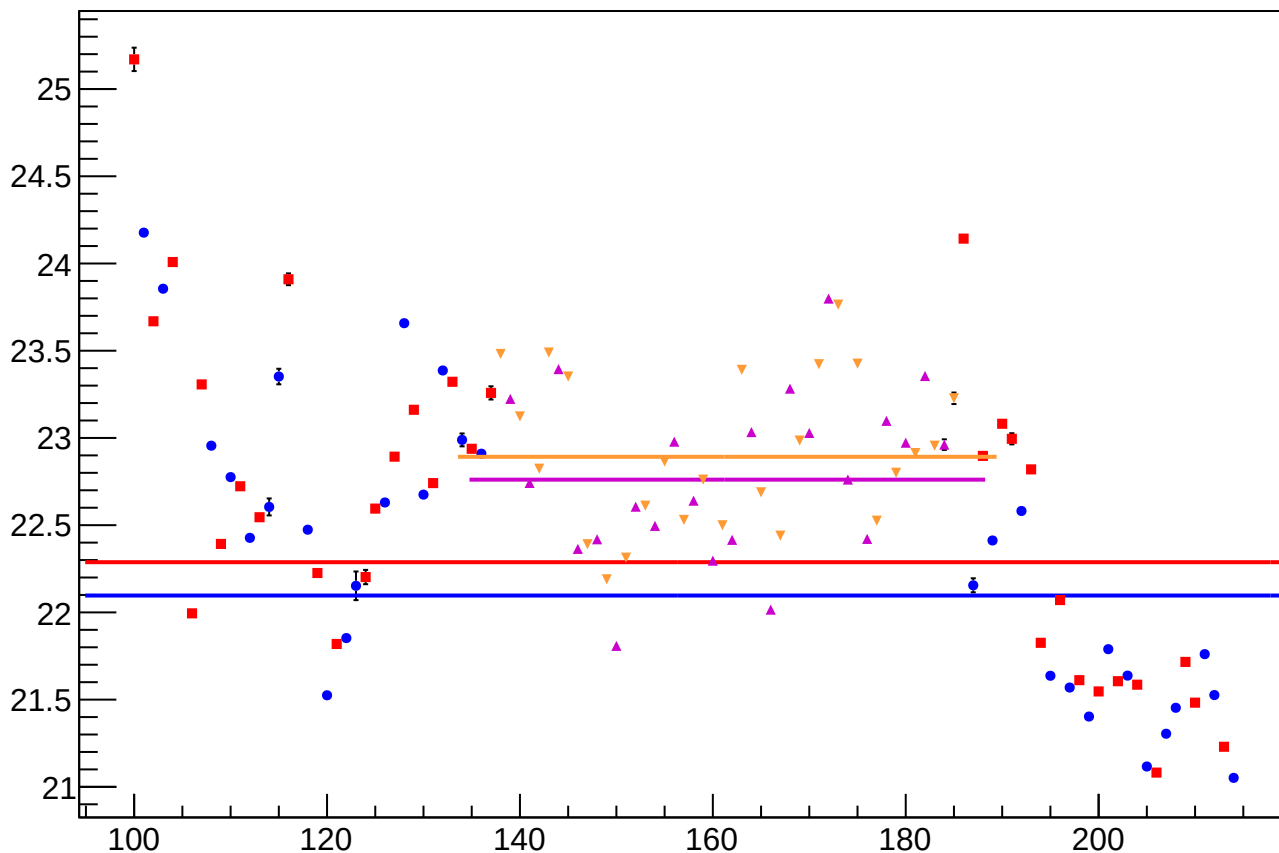
Right: 5.204 ± 3.804 χ^2/NDF : 62.1/64

In: 1.324 ± 3.842 χ^2/NDF : 48.5/53

Out: 10.390 ± 3.780 χ^2/NDF : 69.2/58

All: 5.932 ± 2.695 χ^2/NDF : 120.5/112

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.097 $\pm$ 0.004 χ^2 /NDF: 46657.5/30

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.288 $\pm$ 0.004 χ^2 /NDF: 48156.2/33

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

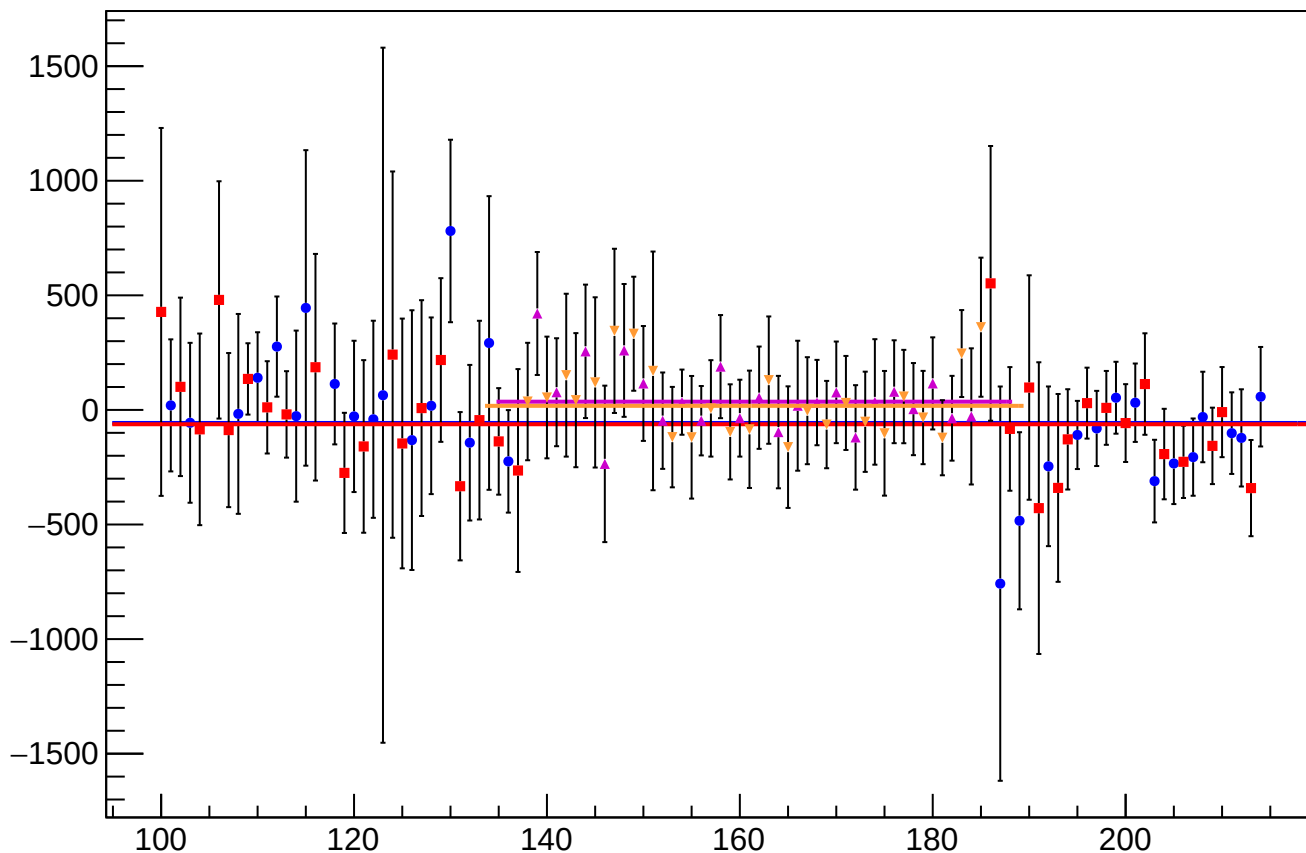
Right: 22.193 $\pm$ 0.003 χ^2 /NDF: 96075.5/64

In: 22.425 $\pm$ 0.003 χ^2 /NDF:76147.7/53

Out: 22.591 $\pm$ 0.003 χ^2 /NDF:73925.2/58

All: 22.509 $\pm$ 0.002 χ^2 /NDF: 151970.7/112

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.955 $\pm$ 43.450 χ^2 /NDF: 17.1/30

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -62.525 $\pm$ 43.130 χ^2 /NDF: 13.1/33

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

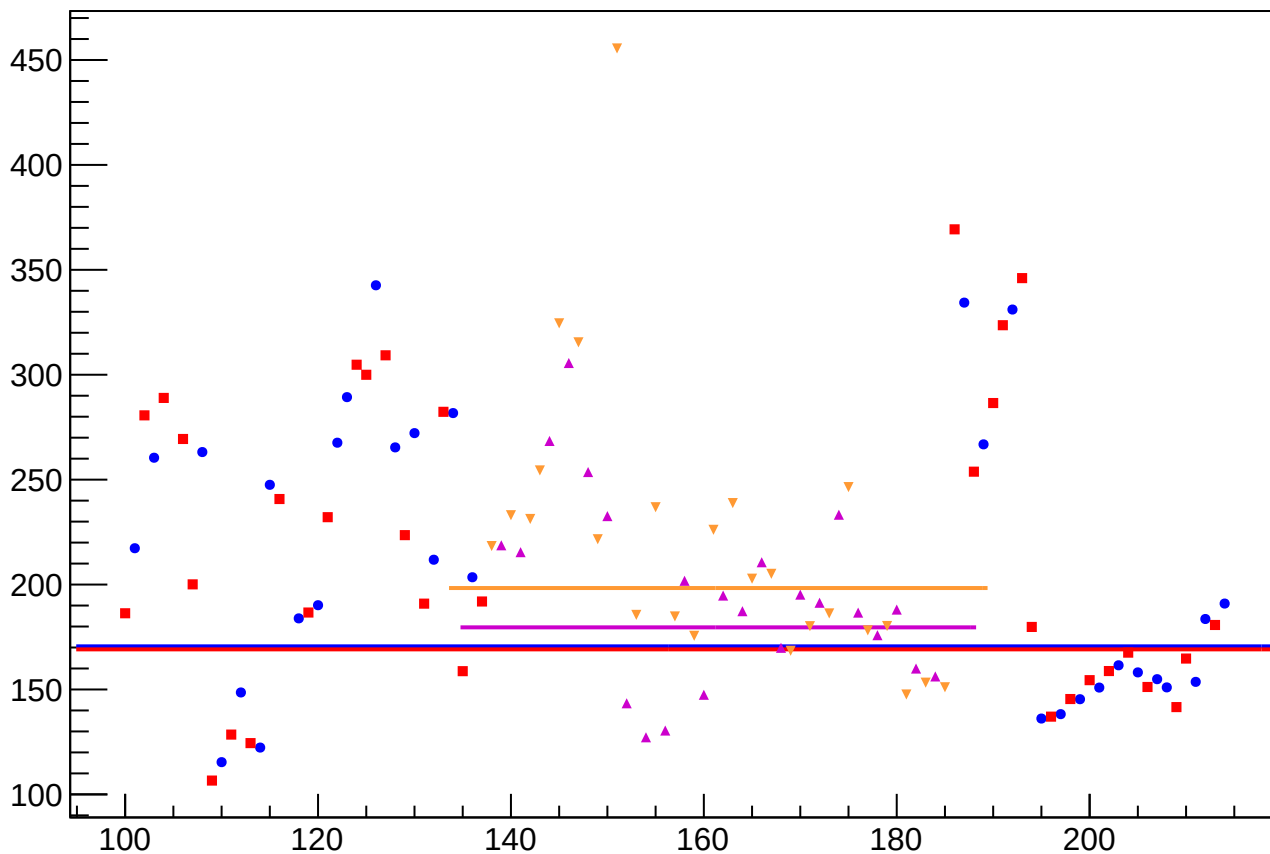
Right: -59.761 $\pm$ 30.610 χ^2 /NDF: 30.2/64

In: -12.254 $\pm$ 31.287 χ^2 /NDF:25.6/53

Out: -26.605 $\pm$ 32.064 χ^2 /NDF:23.2/58

All: -19.253 $\pm$ 22.393 χ^2 /NDF: 48.9/112

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.549 $\pm$ 0.031 χ^2 /NDF: 2182734.3/30

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 169.113 $\pm$ 0.030 χ^2 /NDF: 2862288.6/33

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

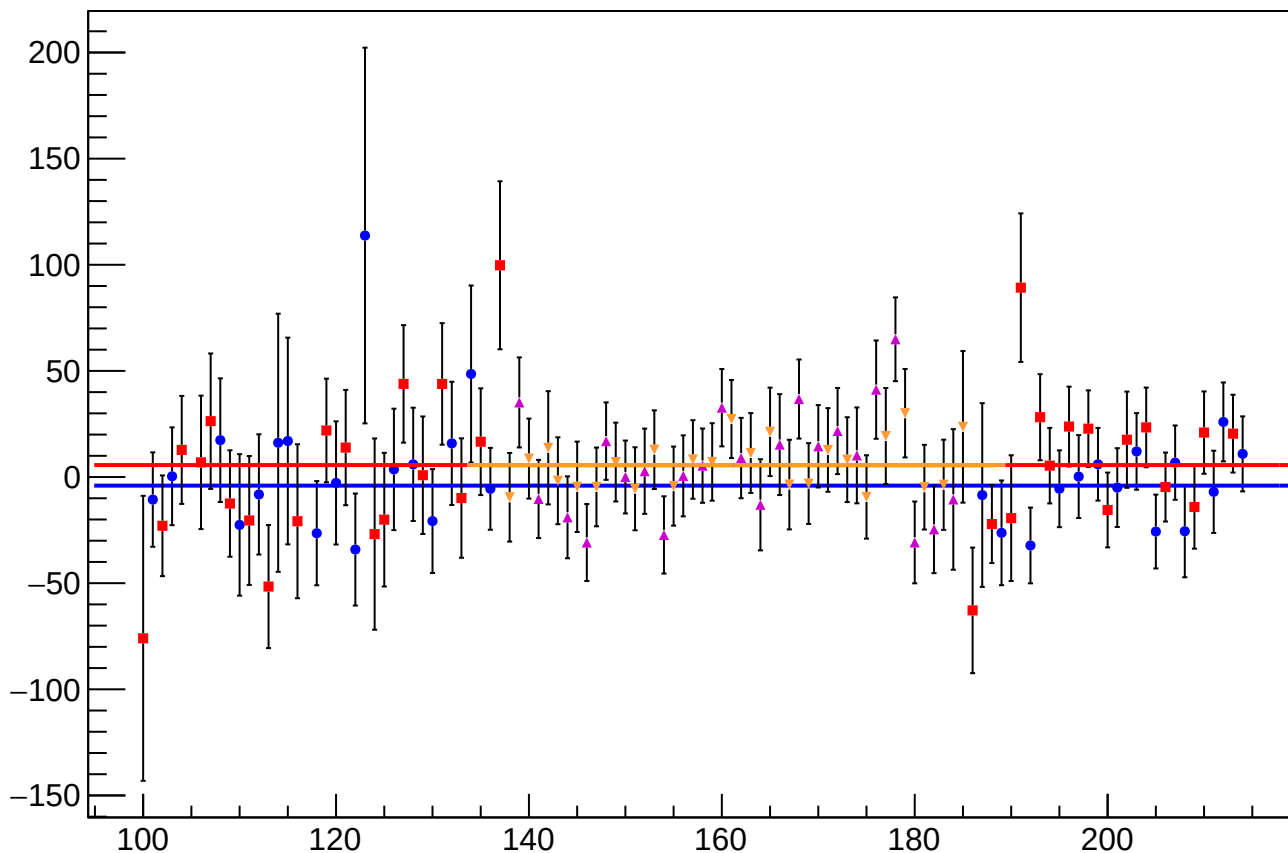
Right: 169.826 $\pm$ 0.022 χ^2 /NDF: 5046122.5/64

In: 174.909 $\pm$ 0.022 χ^2 /NDF:3800314.5/53

Out: 182.188 $\pm$ 0.023 χ^2 /NDF:5030660.1/58

All: 178.460 $\pm$ 0.016 χ^2 /NDF: 8883774.7/112

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.047 ± 4.119 χ^2/NDF : 18.7/30

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 5.645 ± 4.096 χ^2/NDF : 43.2/33

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

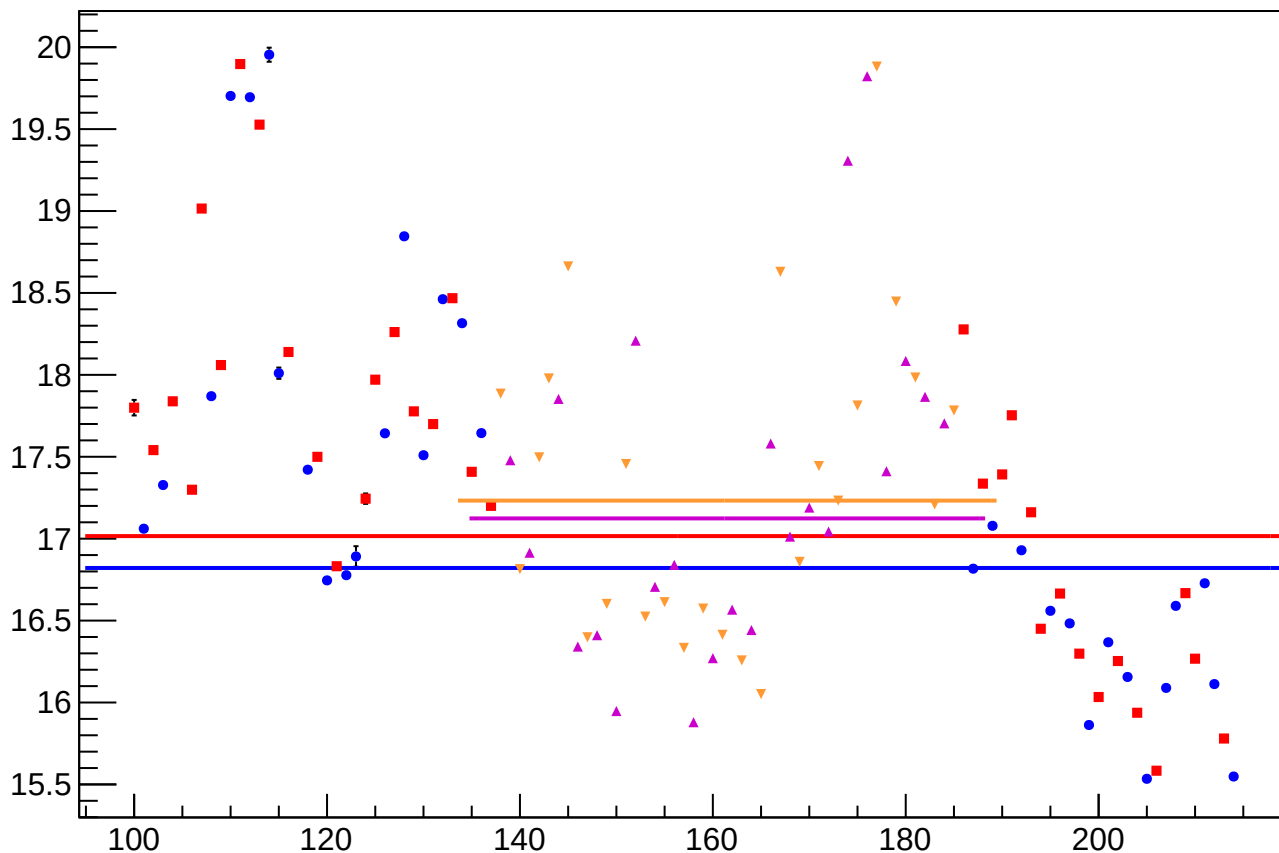
Right: 0.826 ± 2.905 χ^2/NDF : 64.7/64

In: 0.772 ± 2.914 χ^2/NDF : 57.9/53

Out: 5.663 ± 2.870 χ^2/NDF : 50.9/58

All: 3.254 ± 2.045 χ^2/NDF : 110.2/112

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.821 ± 0.003 $\chi^2/\text{NDF}: 113896.4/30$

Left Out: 17.232 ± 0.003 $\chi^2/\text{NDF}: 98701.0/24$

Right Out: 17.016 ± 0.003 $\chi^2/\text{NDF}: 119848.5/33$

Left In: 17.124 ± 0.003 $\chi^2/\text{NDF}: 100747.0/22$

Left: 17.179 ± 0.002 $\chi^2/\text{NDF}: 200160.6/47$

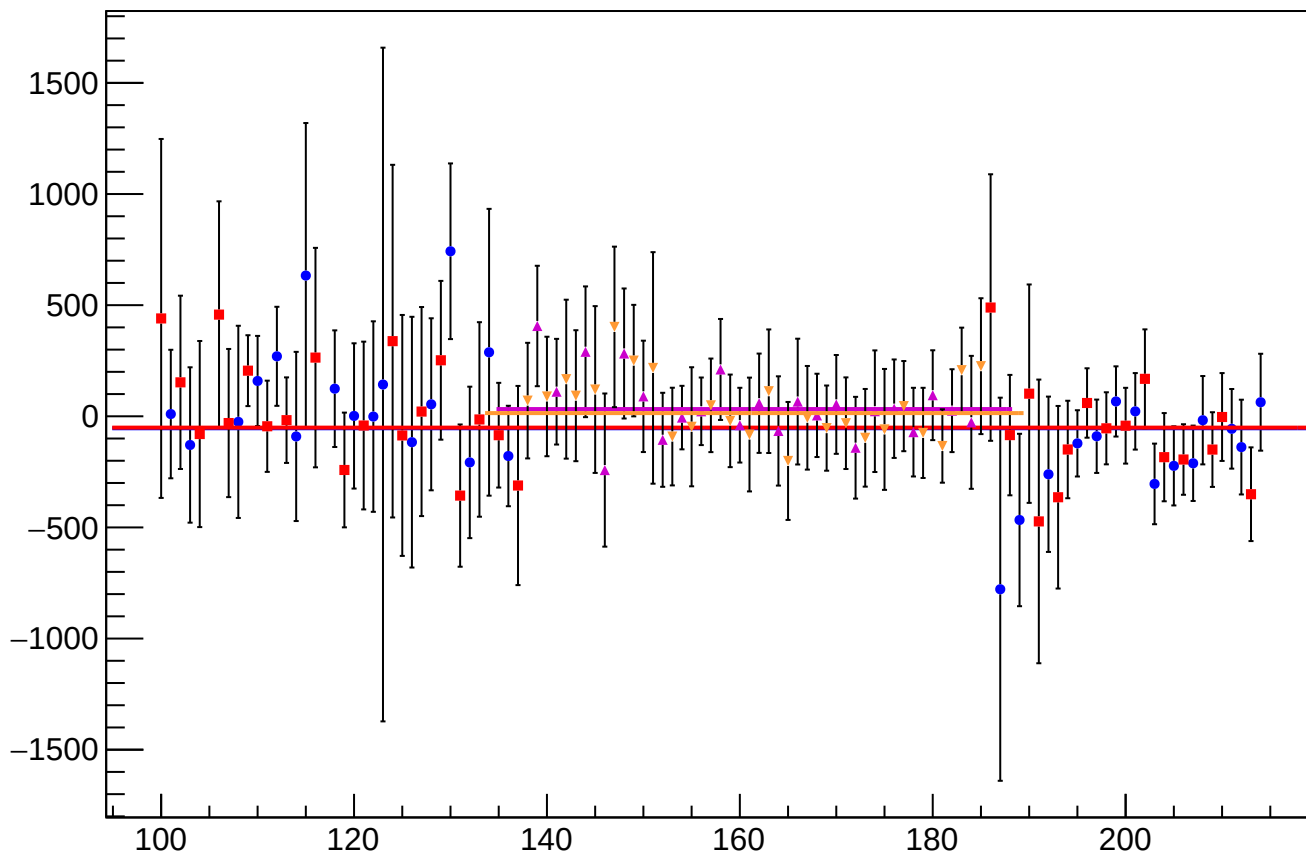
Right: 16.919 ± 0.002 $\chi^2/\text{NDF}: 235987.6/64$

In: 16.972 ± 0.002 $\chi^2/\text{NDF}: 220031.8/53$

Out: 17.126 ± 0.002 $\chi^2/\text{NDF}: 221396.9/58$

All: 17.050 ± 0.001 $\chi^2/\text{NDF}: 444250.7/112$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.871 ± 43.703 χ^2/NDF : 17.2/30

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -50.974 ± 43.427 χ^2/NDF : 14.8/33

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

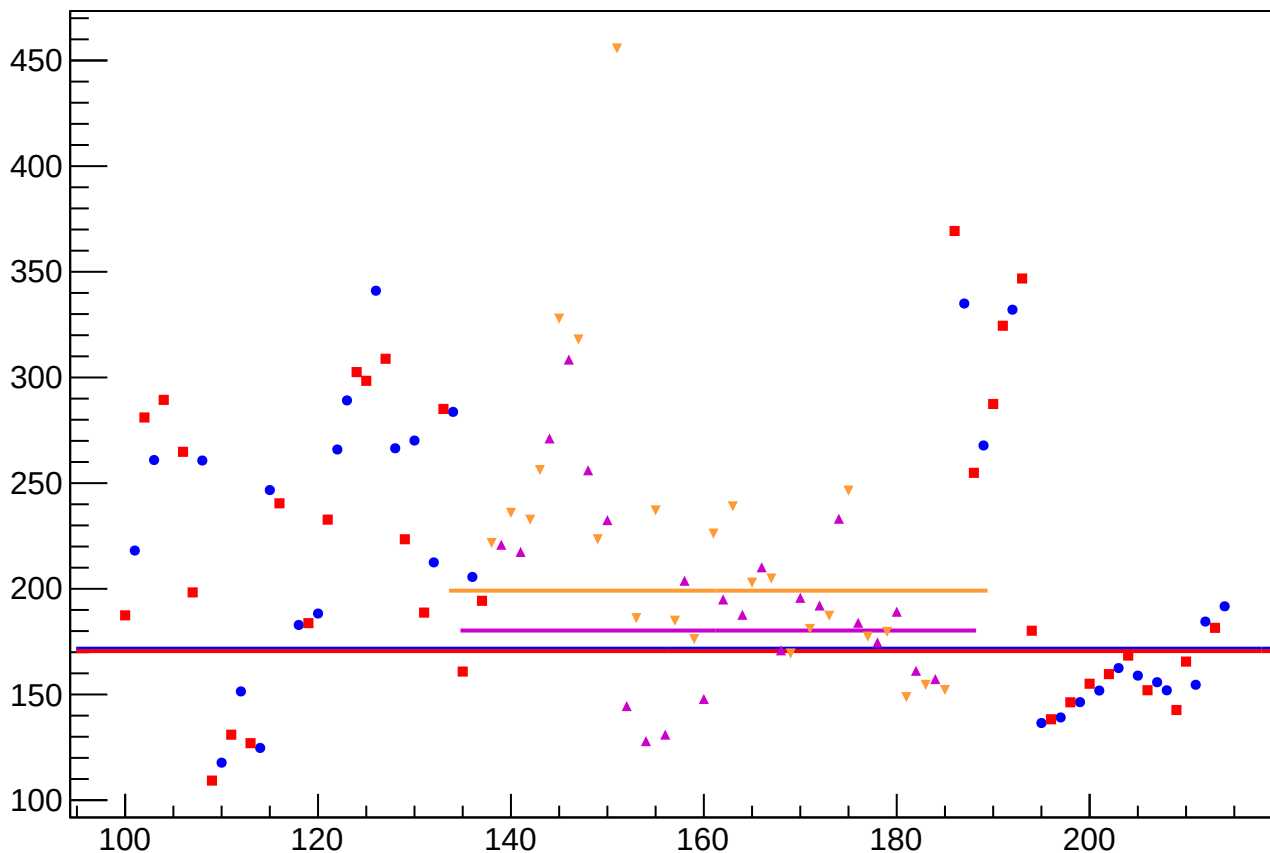
Right: -52.413 ± 30.805 χ^2/NDF : 32.0/64

In: -12.151 ± 31.435 χ^2/NDF : 25.8/53

Out: -21.653 ± 32.242 χ^2/NDF : 22.7/58

All: -16.781 ± 22.508 χ^2/NDF : 48.6/112

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.665 $\pm$ 0.031 χ^2 /NDF: 2133720.5/30

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 170.537 $\pm$ 0.031 χ^2 /NDF: 2769515.6/33

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

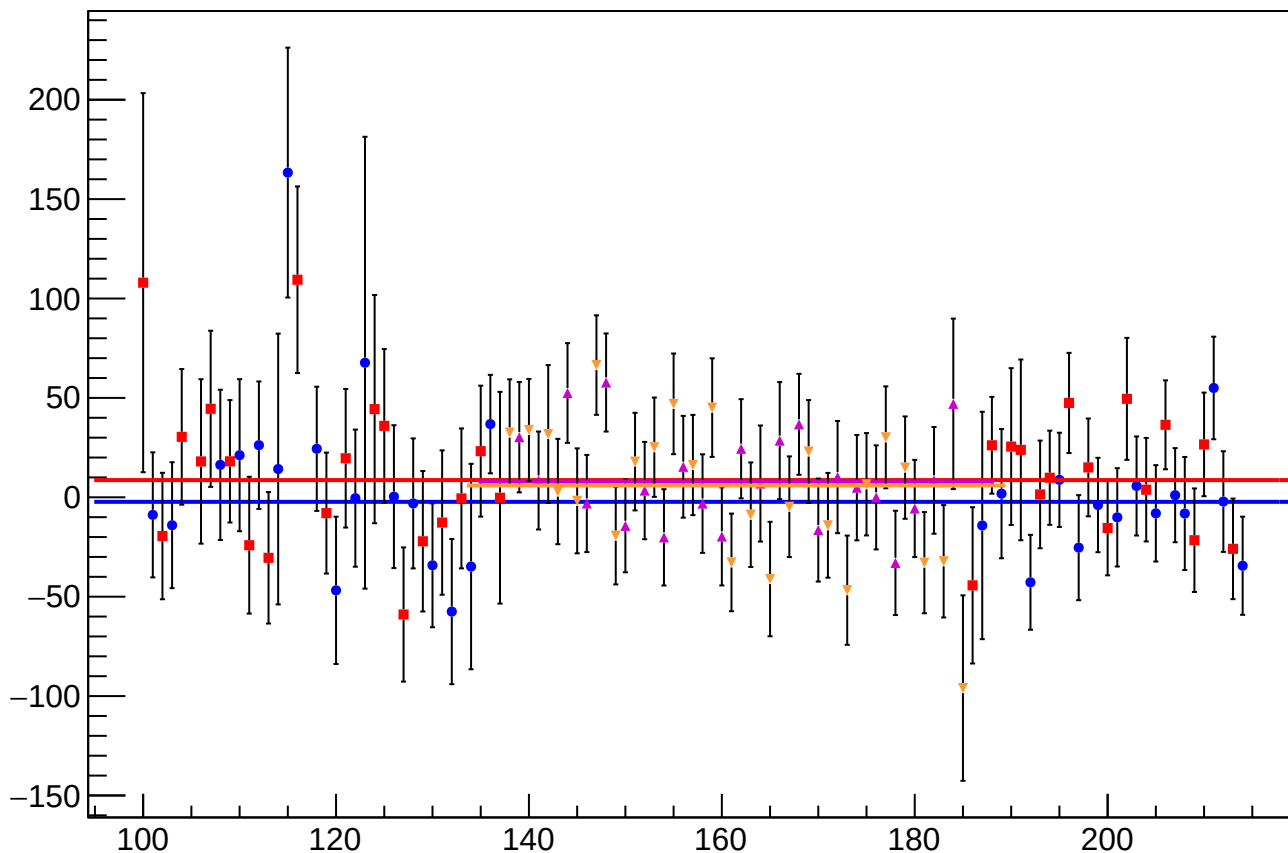
Right: 171.097 $\pm$ 0.022 χ^2 /NDF: 4903906.8/64

In: 175.811 $\pm$ 0.022 χ^2 /NDF:3751579.0/53

Out: 183.371 $\pm$ 0.023 χ^2 /NDF:4919076.9/58

All: 179.495 $\pm$ 0.016 χ^2 /NDF: 8727024.1/112

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.282 ± 5.450 $\chi^2/\text{NDF}: 28.2/30$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 8.660 ± 5.384 $\chi^2/\text{NDF}: 30.1/33$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

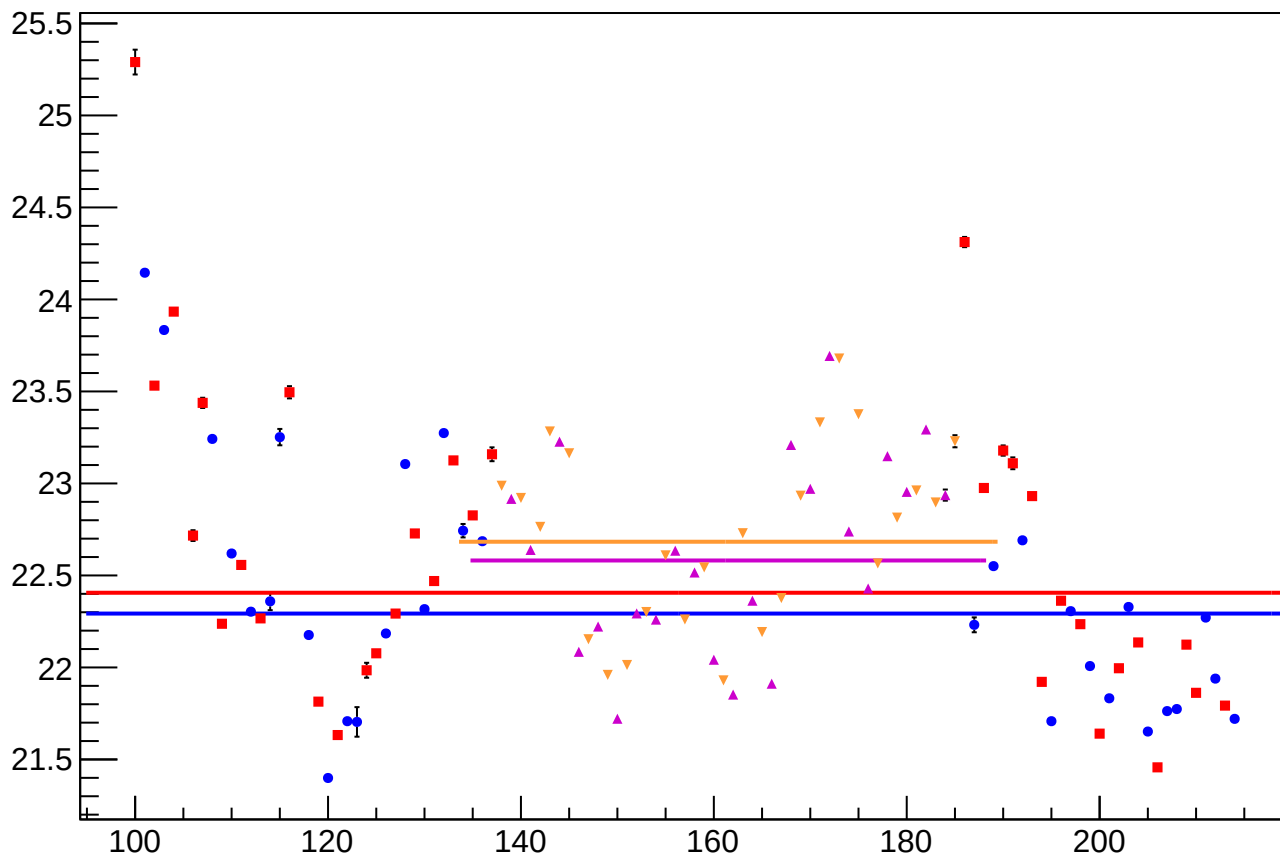
Right: 3.256 ± 3.830 $\chi^2/\text{NDF}: 60.4/64$

In: 2.844 ± 3.844 $\chi^2/\text{NDF}: 48.7/53$

Out: 7.273 ± 3.771 $\chi^2/\text{NDF}: 66.3/58$

All: 5.101 ± 2.692 $\chi^2/\text{NDF}: 115.7/112$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.293+/-0.004 χ^2/NDF : 26136.2/30

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.406+/-0.004 χ^2/NDF : 32065.7/33

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

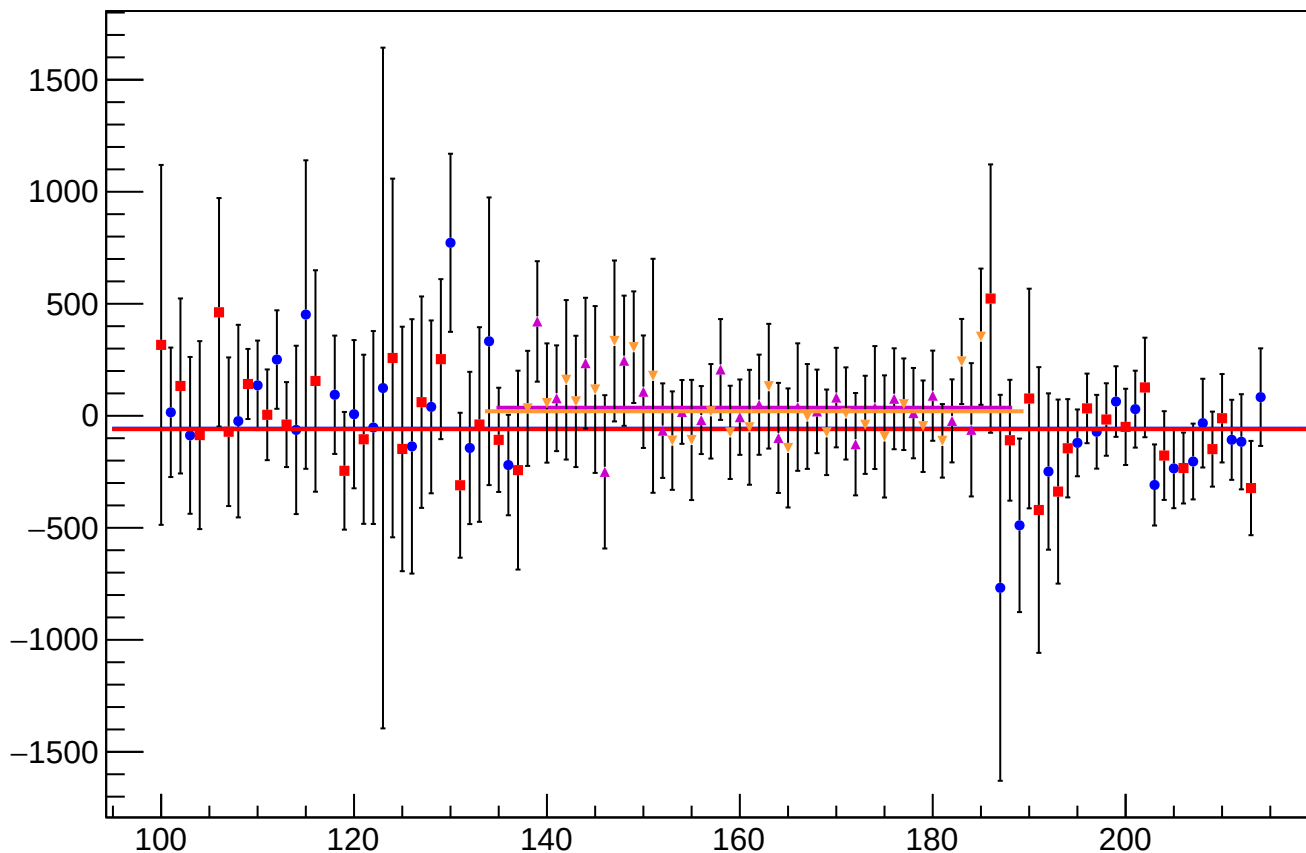
Right: 22.350+/-0.003 χ^2/NDF : 58638.1/64

In: 22.438+/-0.003 χ^2/NDF :46857.3/53

Out: 22.547+/-0.003 χ^2/NDF :51086.9/58

All: 22.494+/-0.002 χ^2/NDF : 98768.2/112

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.470 ± 43.581 χ^2/NDF : 16.8/30

Left Out: 20.306 ± 48.049 χ^2/NDF : 7.7/24

Right Out: -59.705 ± 43.245 χ^2/NDF : 12.4/33

Left In: 35.996 ± 45.180 χ^2/NDF : 6.1/22

Left: 28.633 ± 32.915 χ^2/NDF : 13.8/47

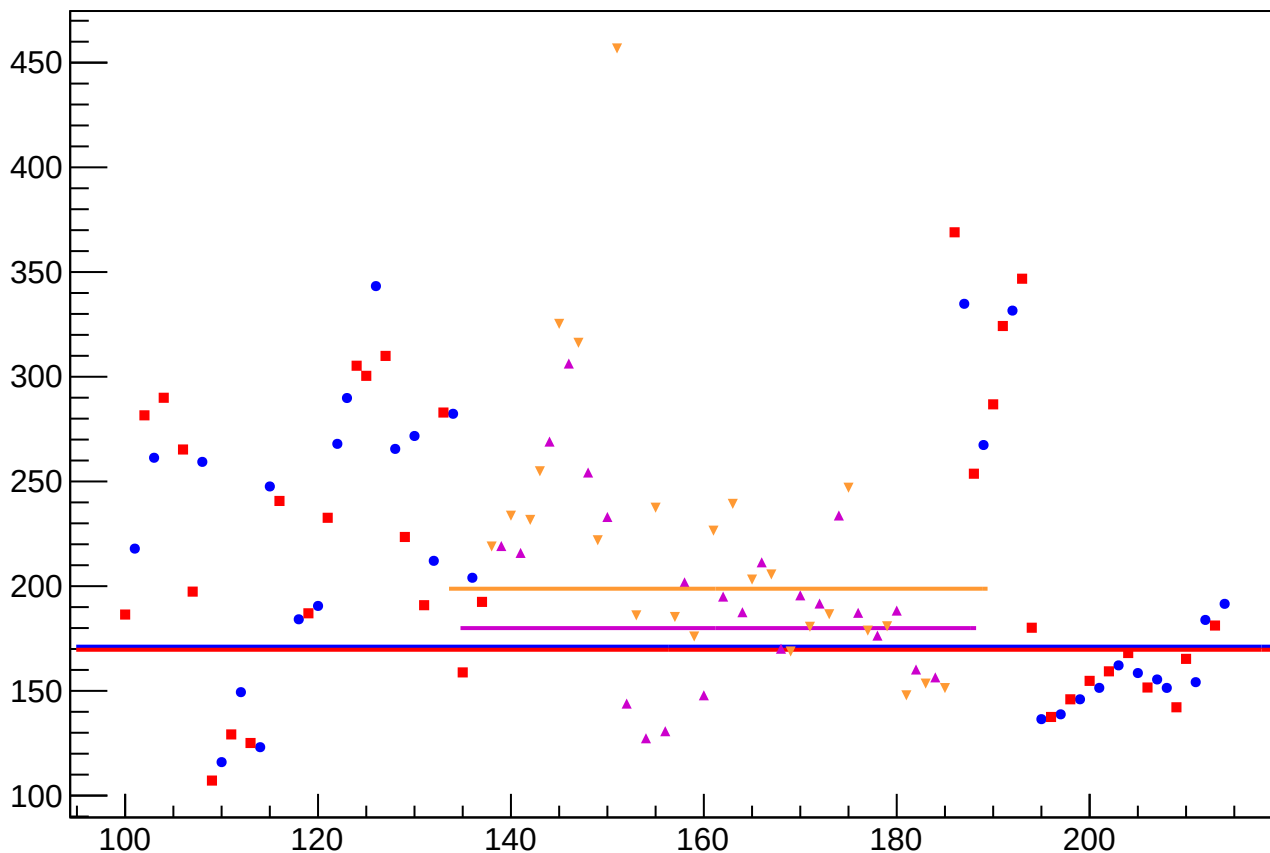
Right: -58.596 ± 30.697 χ^2/NDF : 29.2/64

In: -12.420 ± 31.366 χ^2/NDF : 25.1/53

Out: -23.898 ± 32.143 χ^2/NDF : 21.6/58

All: -18.019 ± 22.449 χ^2/NDF : 46.8/112

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.112 $\pm$ 0.031 χ^2 /NDF: 2163861.8/30

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 169.633 $\pm$ 0.031 χ^2 /NDF: 2836704.8/33

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

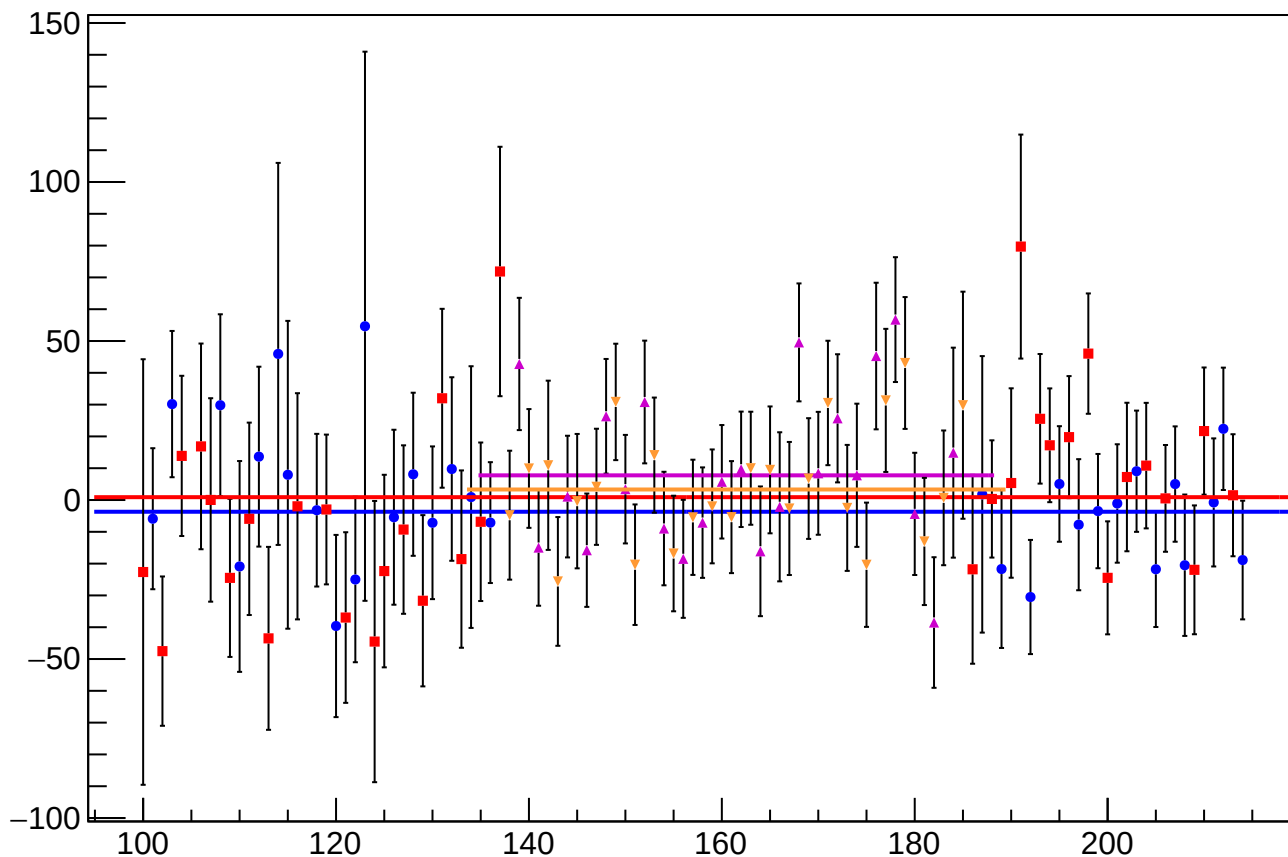
Right: 170.367 $\pm$ 0.022 χ^2 /NDF: 5001727.3/64

In: 175.383 $\pm$ 0.022 χ^2 /NDF:3779595.4/53

Out: 182.679 $\pm$ 0.023 χ^2 /NDF:5001903.7/58

All: 178.942 $\pm$ 0.016 χ^2 /NDF: 8834286.3/112

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.690 ± 4.181 $\chi^2/\text{NDF}: 16.0/30$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.893 ± 4.135 $\chi^2/\text{NDF}: 38.0/33$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

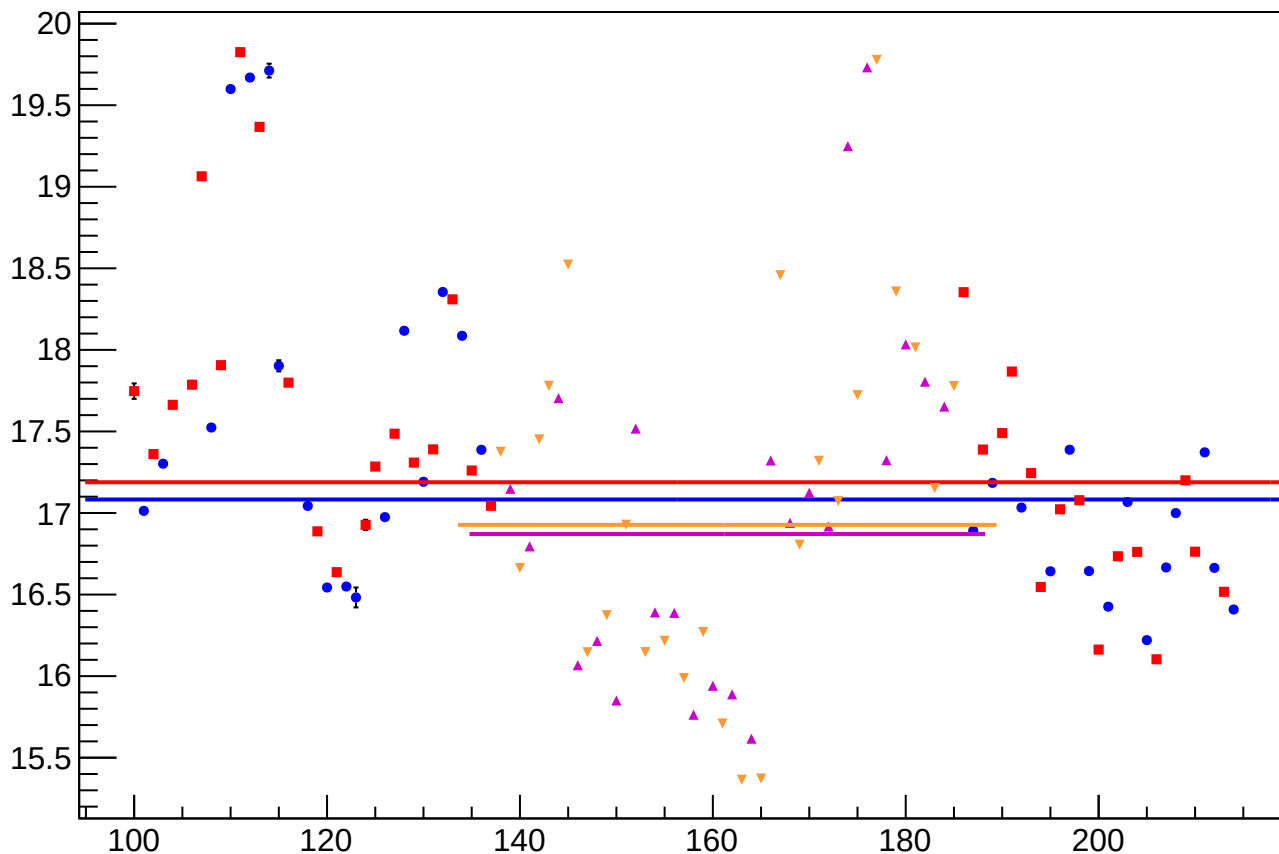
Right: -1.373 ± 2.940 $\chi^2/\text{NDF}: 54.6/64$

In: 2.200 ± 2.913 $\chi^2/\text{NDF}: 54.1/53$

Out: 2.154 ± 2.858 $\chi^2/\text{NDF}: 56.9/58$

All: 2.176 ± 2.040 $\chi^2/\text{NDF}: 111.0/112$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.083 $\pm$ 0.003 χ^2 /NDF: 58846.1/30

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.189 $\pm$ 0.003 χ^2 /NDF: 69514.2/33

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

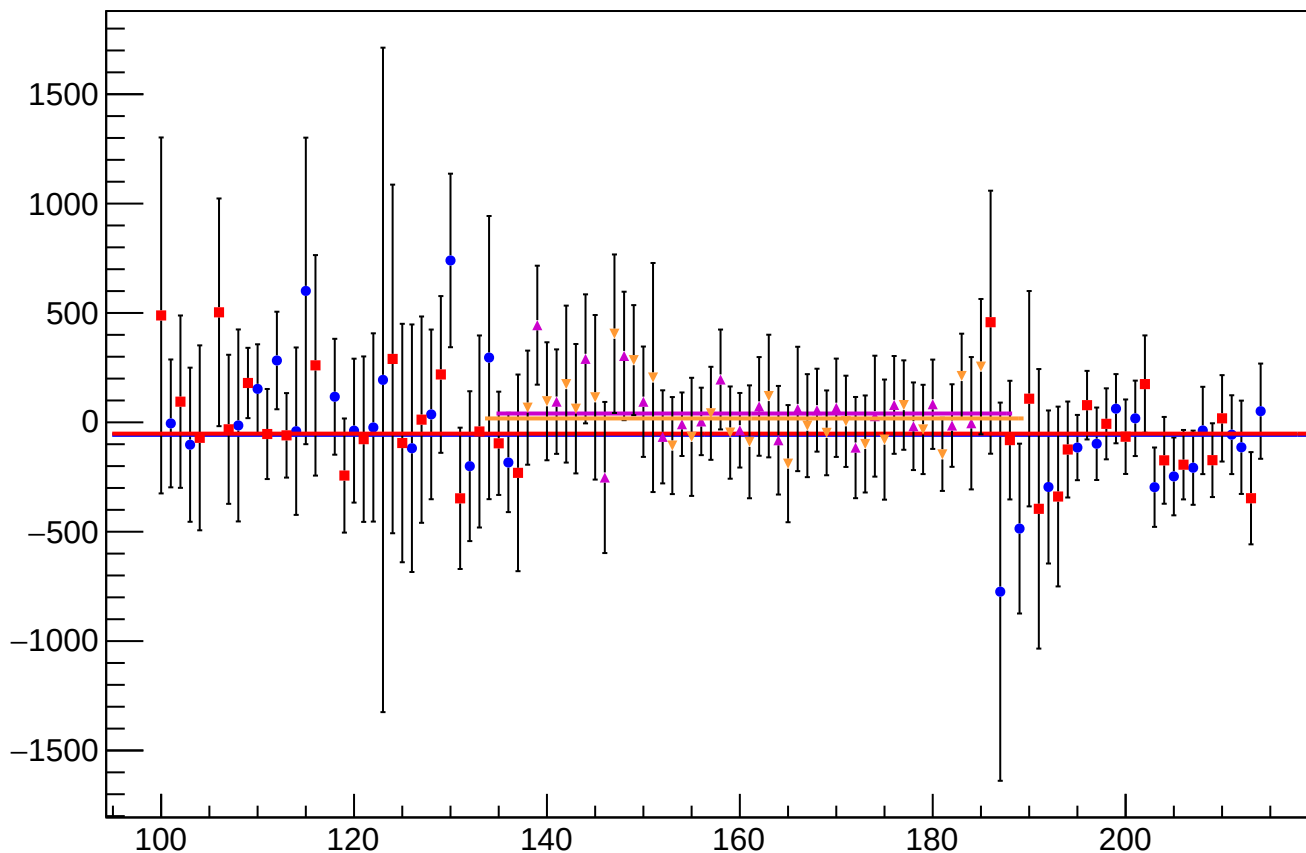
Right: 17.136 $\pm$ 0.002 χ^2 /NDF: 129006.9/64

In: 16.974 $\pm$ 0.002 χ^2 /NDF:179475.5/53

Out: 17.052 $\pm$ 0.002 χ^2 /NDF:212219.3/58

All: 17.014 $\pm$ 0.001 χ^2 /NDF: 392427.3/112

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.227 ± 43.824 $\chi^2/\text{NDF}: 17.0/30$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -51.639 ± 43.565 $\chi^2/\text{NDF}: 13.8/33$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

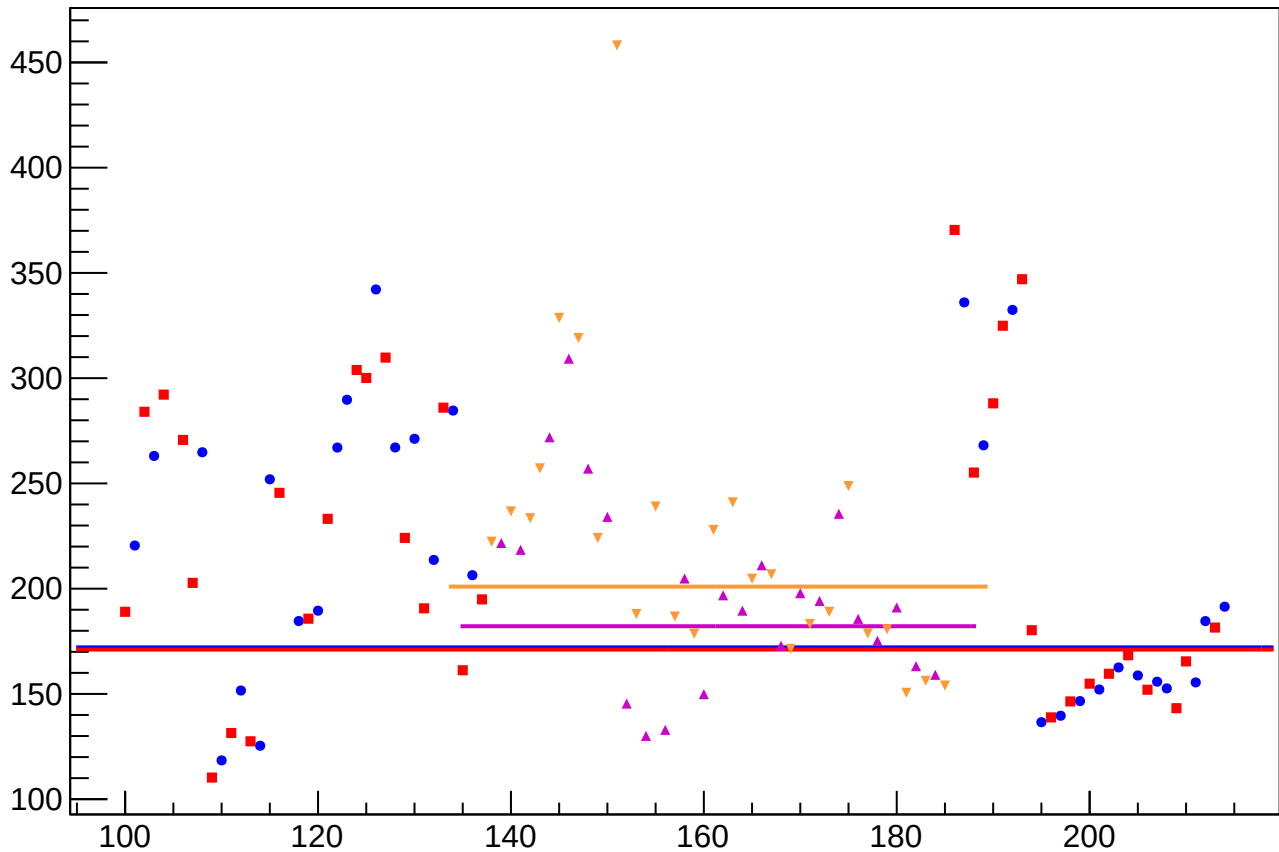
Right: -54.417 ± 30.896 $\chi^2/\text{NDF}: 30.9/64$

In: -10.469 ± 31.627 $\chi^2/\text{NDF}: 26.0/53$

Out: -20.652 ± 32.424 $\chi^2/\text{NDF}: 22.4/58$

All: -15.434 ± 22.640 $\chi^2/\text{NDF}: 48.5/112$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.113 $\pm$ 0.031 χ^2 /NDF: 2146719.3/30

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF: 1727291.4/24

Right Out: 171.079 $\pm$ 0.031 χ^2 /NDF: 2779746.7/33

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF: 1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

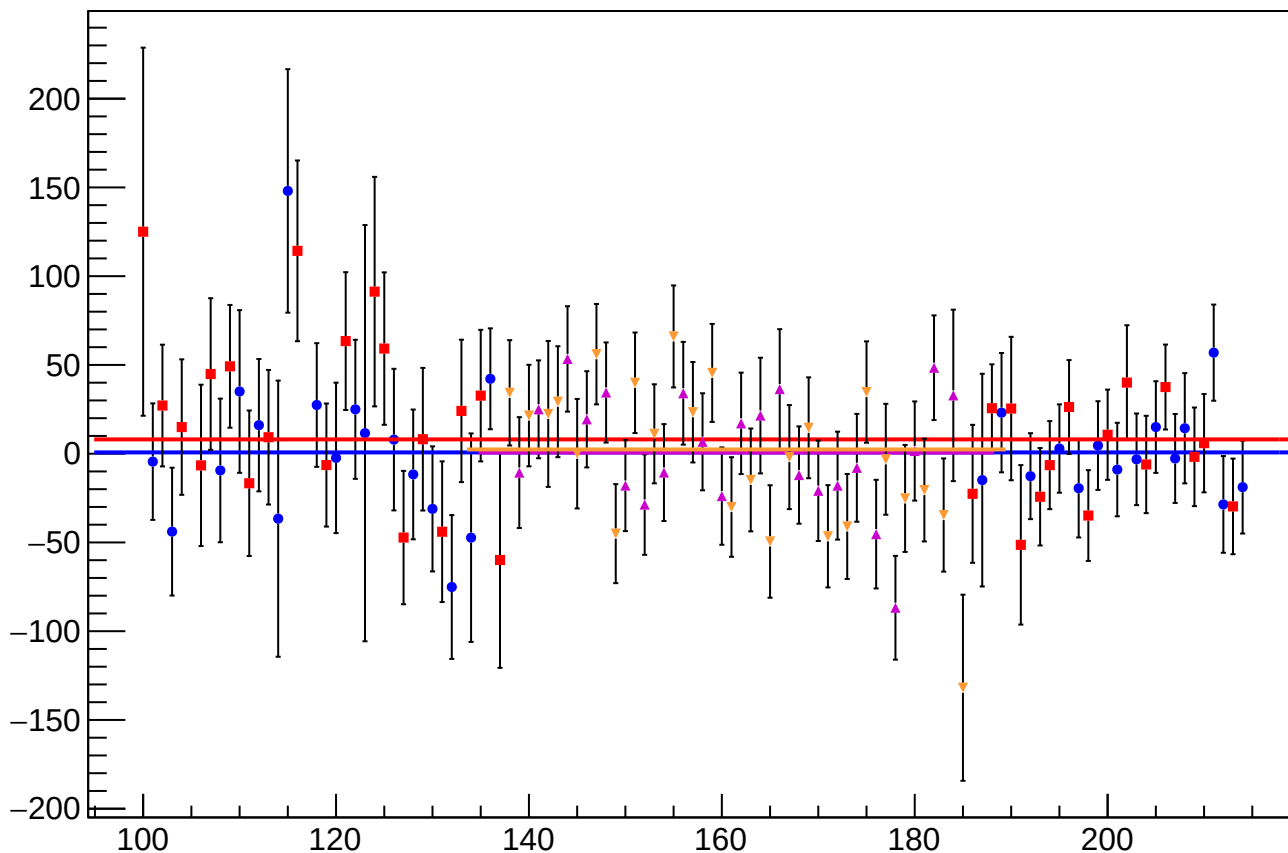
Right: 171.593 $\pm$ 0.022 χ^2 /NDF: 4927026.1/64

In: 176.927 $\pm$ 0.022 χ^2 /NDF: 3732991.9/53

Out: 184.419 $\pm$ 0.023 χ^2 /NDF: 4927449.4/58

All: 180.580 $\pm$ 0.016 χ^2 /NDF: 8715172.7/112

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.716+/-5.878 χ^2/NDF : 23.5/30

Left Out: 2.390+/-5.980 χ^2/NDF :39.1/24

Right Out: 8.051+/-5.781 χ^2/NDF : 32.6/33

Left In: 0.641+/-6.091 χ^2/NDF :27.3/22

Left: 1.531+/-4.267 χ^2/NDF : 66.5/47

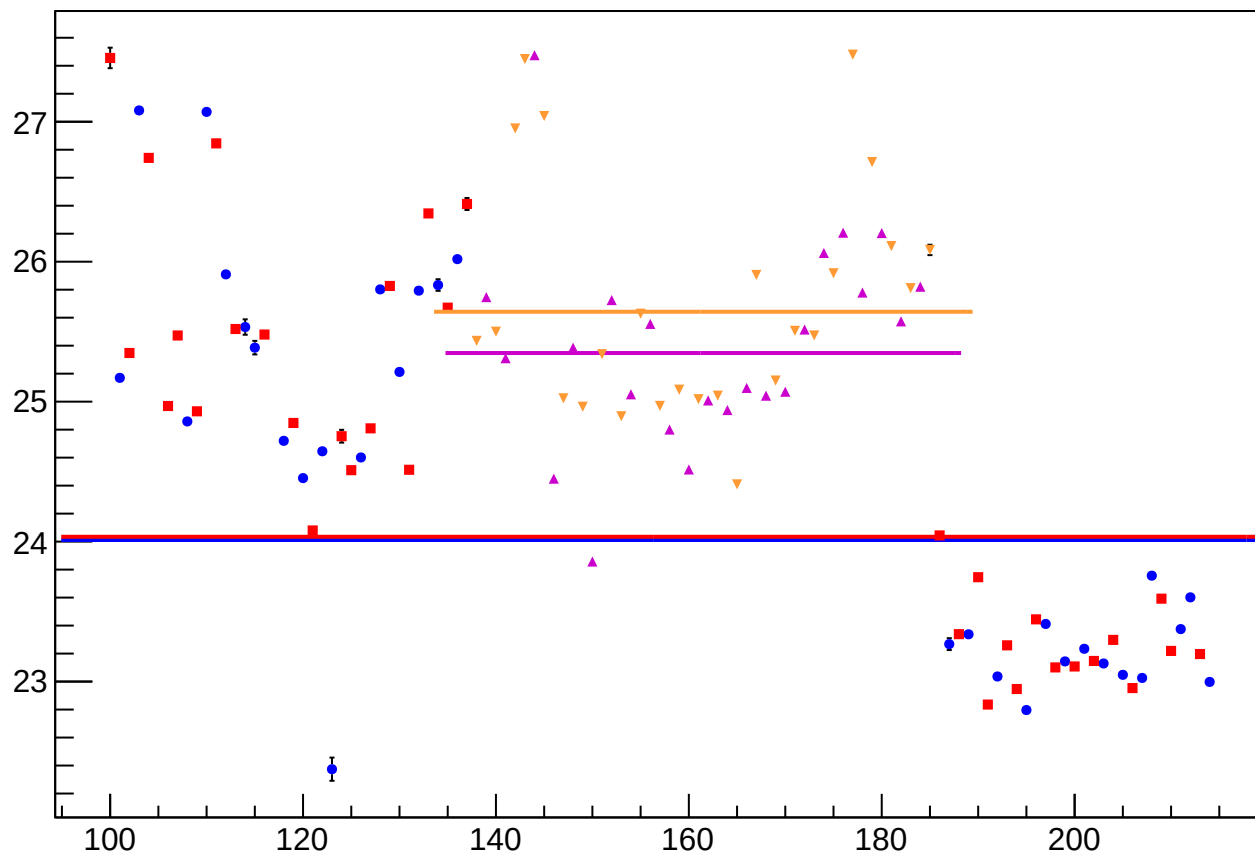
Right: 4.444+/-4.121 χ^2/NDF : 56.9/64

In: 0.680+/-4.230 χ^2/NDF :50.8/53

Out: 5.316+/-4.156 χ^2/NDF :72.2/58

All: 3.039+/-2.964 χ^2/NDF : 123.6/112

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.011 $\pm$ 0.004 χ^2 /NDF: 85980.8/30

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.035 $\pm$ 0.004 χ^2 /NDF: 80135.7/33

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

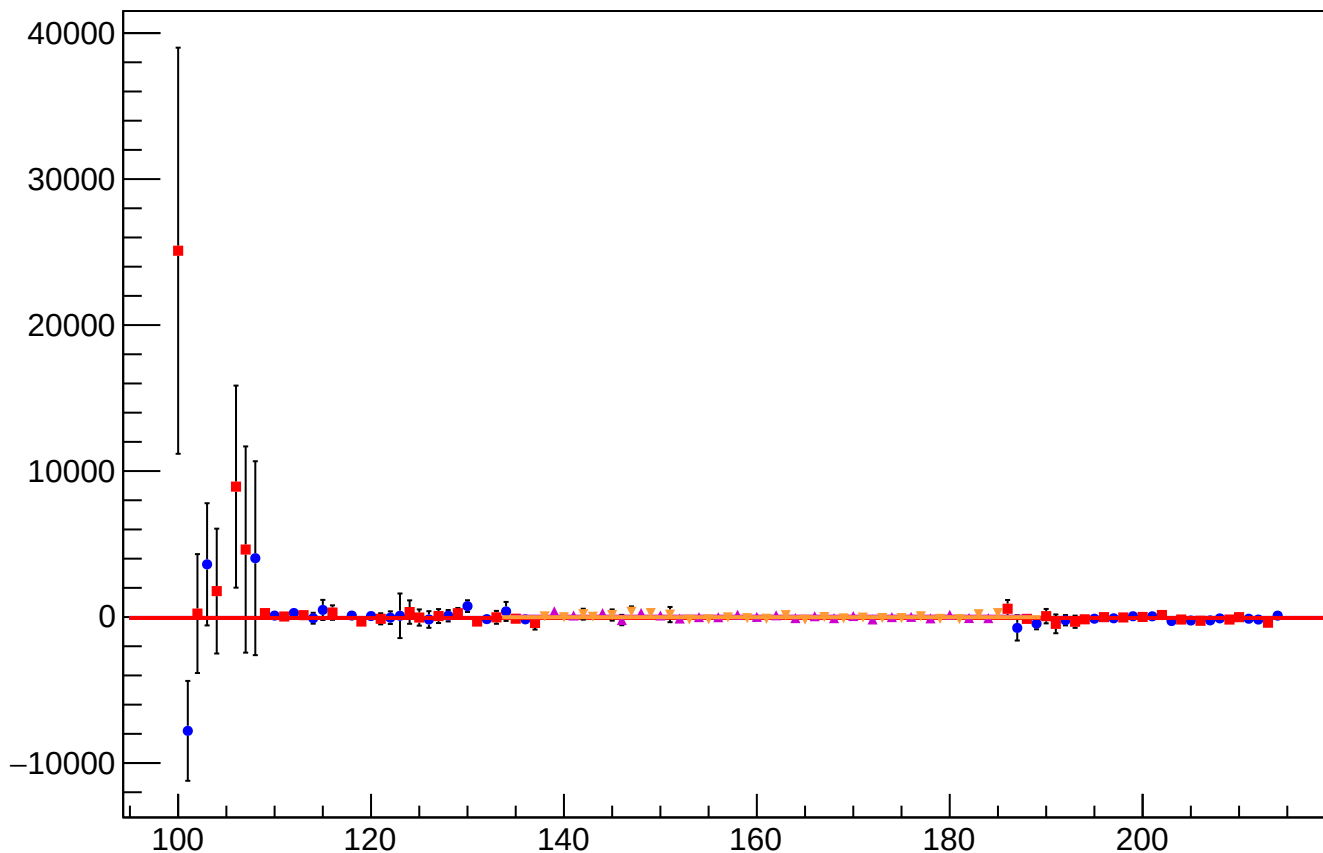
Right: 24.023 $\pm$ 0.003 χ^2 /NDF: 166132.2/64

In: 24.656 $\pm$ 0.003 χ^2 /NDF:165187.9/53

Out: 24.811 $\pm$ 0.003 χ^2 /NDF:189668.8/58

All: 24.735 $\pm$ 0.002 χ^2 /NDF: 356233.7/112

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.818 ± 45.750 χ^2/NDF : 22.3/30

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: -62.231 ± 46.200 χ^2/NDF : 20.6/33

Left In: 27.098 ± 45.999 χ^2/NDF : 7.2/22

Left: 8.758 ± 33.298 χ^2/NDF : 15.5/47

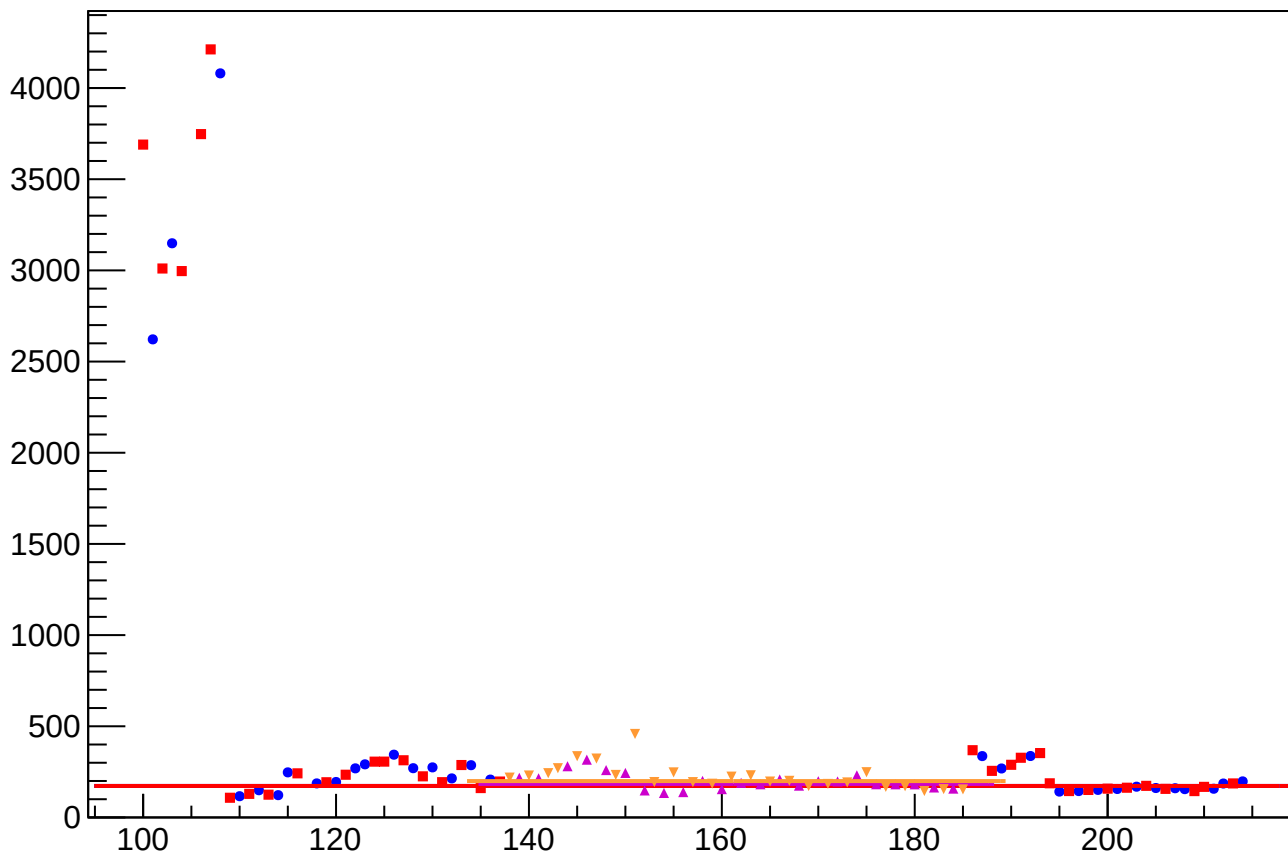
Right: -60.508 ± 32.508 χ^2/NDF : 42.9/64

In: -16.093 ± 32.438 χ^2/NDF : 31.2/53

Out: -37.940 ± 33.374 χ^2/NDF : 29.2/58

All: -26.706 ± 23.261 χ^2/NDF : 60.6/112

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.790 $\pm$ 0.032 χ^2 /NDF: 4551852.4/30

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 172.719 $\pm$ 0.033 χ^2 /NDF: 5402238.0/33

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

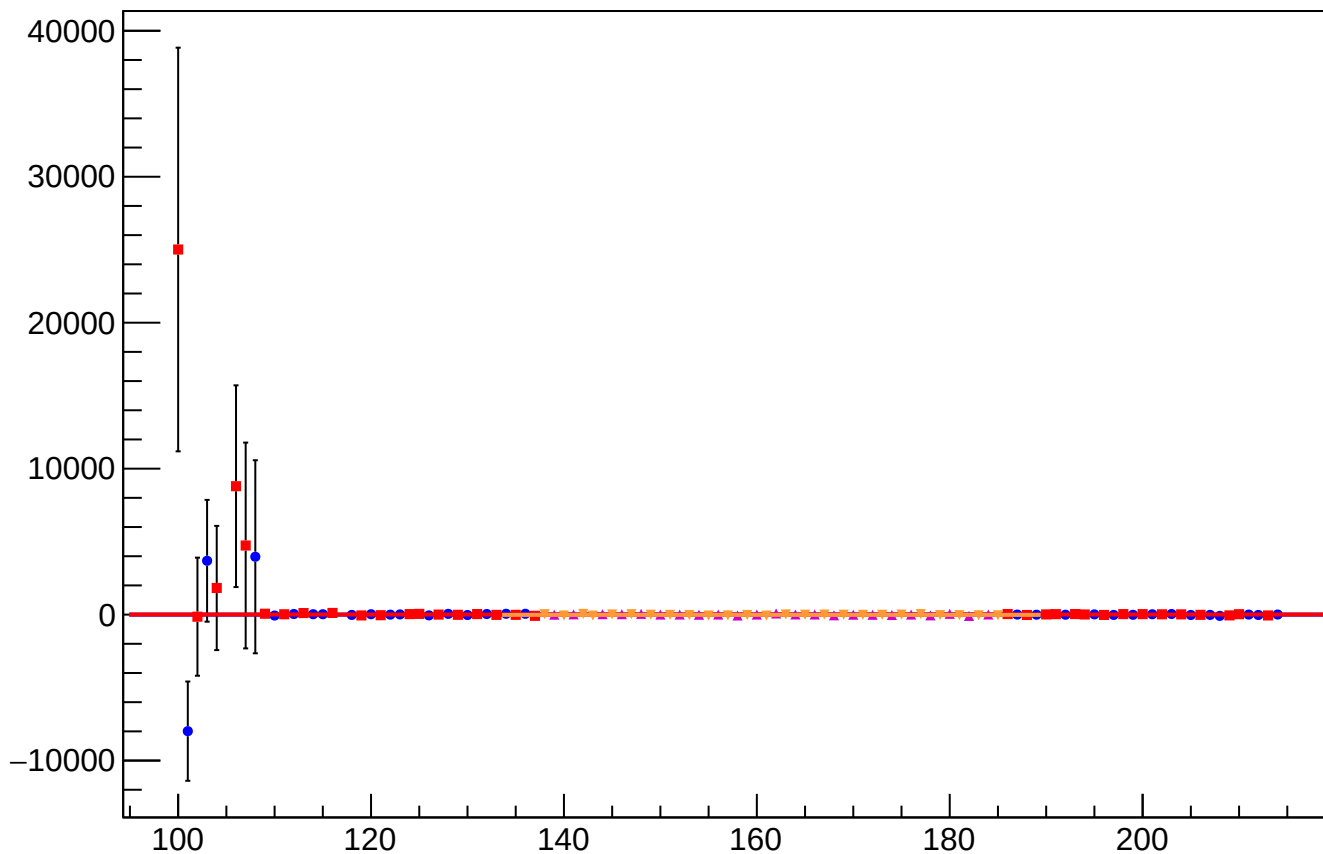
Right: 172.755 $\pm$ 0.023 χ^2 /NDF: 9954092.8/64

In: 178.268 $\pm$ 0.023 χ^2 /NDF:6022374.1/53

Out: 185.495 $\pm$ 0.024 χ^2 /NDF:7599956.1/58

All: 181.779 $\pm$ 0.016 χ^2 /NDF: 13670563.4/11

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.297 ± 7.044 χ^2/NDF : 30.1/30

Left Out: -18.118 ± 6.704 χ^2/NDF : 21.7/24

Right Out: 5.536 ± 7.033 χ^2/NDF : 38.1/33

Left In: 1.267 ± 6.908 χ^2/NDF : 32.0/22

Left: -8.716 ± 4.811 χ^2/NDF : 57.8/47

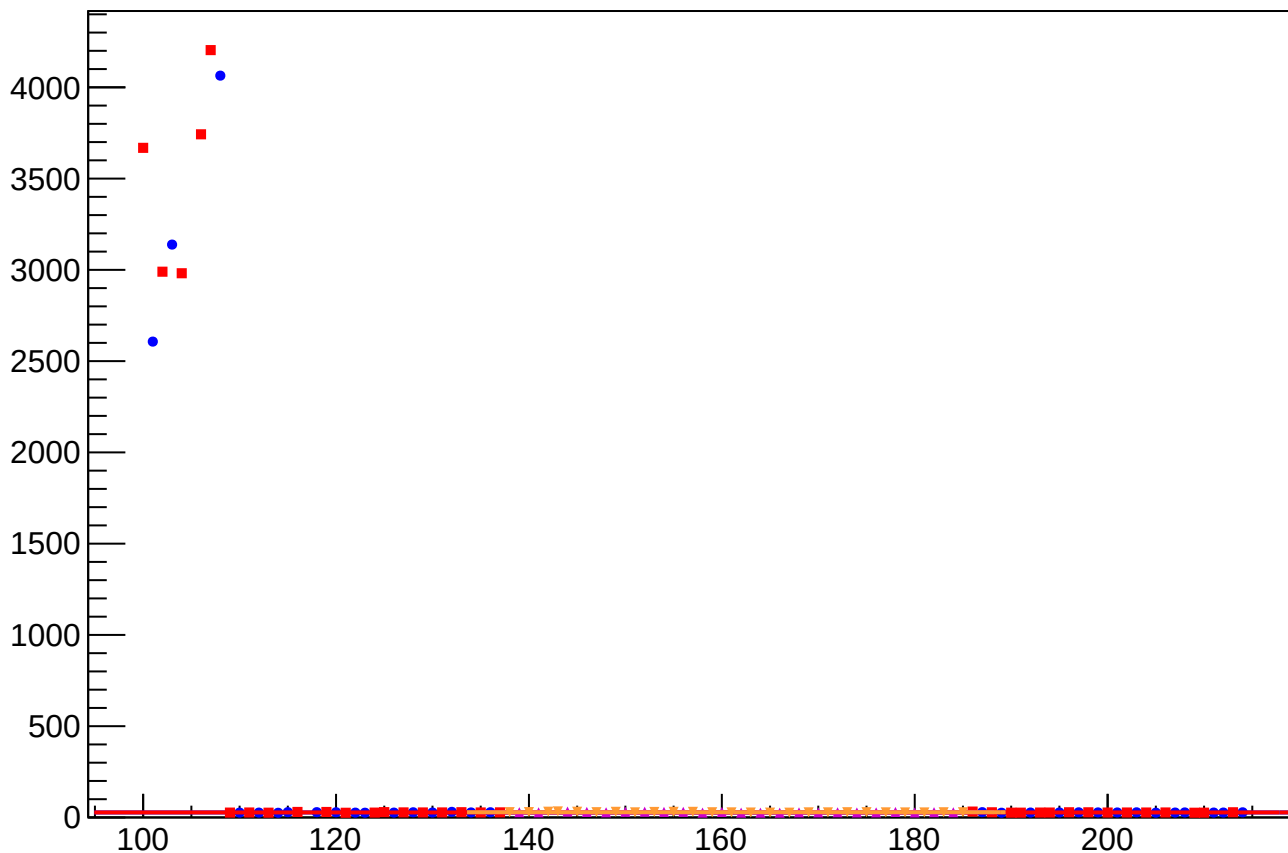
Right: 2.125 ± 4.977 χ^2/NDF : 68.7/64

In: 0.010 ± 4.932 χ^2/NDF : 62.2/53

Out: -6.857 ± 4.852 χ^2/NDF : 65.8/58

All: -3.479 ± 3.459 χ^2/NDF : 129.0/112

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.467 $\pm$ 0.005 χ^2 /NDF: 3042959.2/30

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.471 $\pm$ 0.005 χ^2 /NDF: 3513783.2/33

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

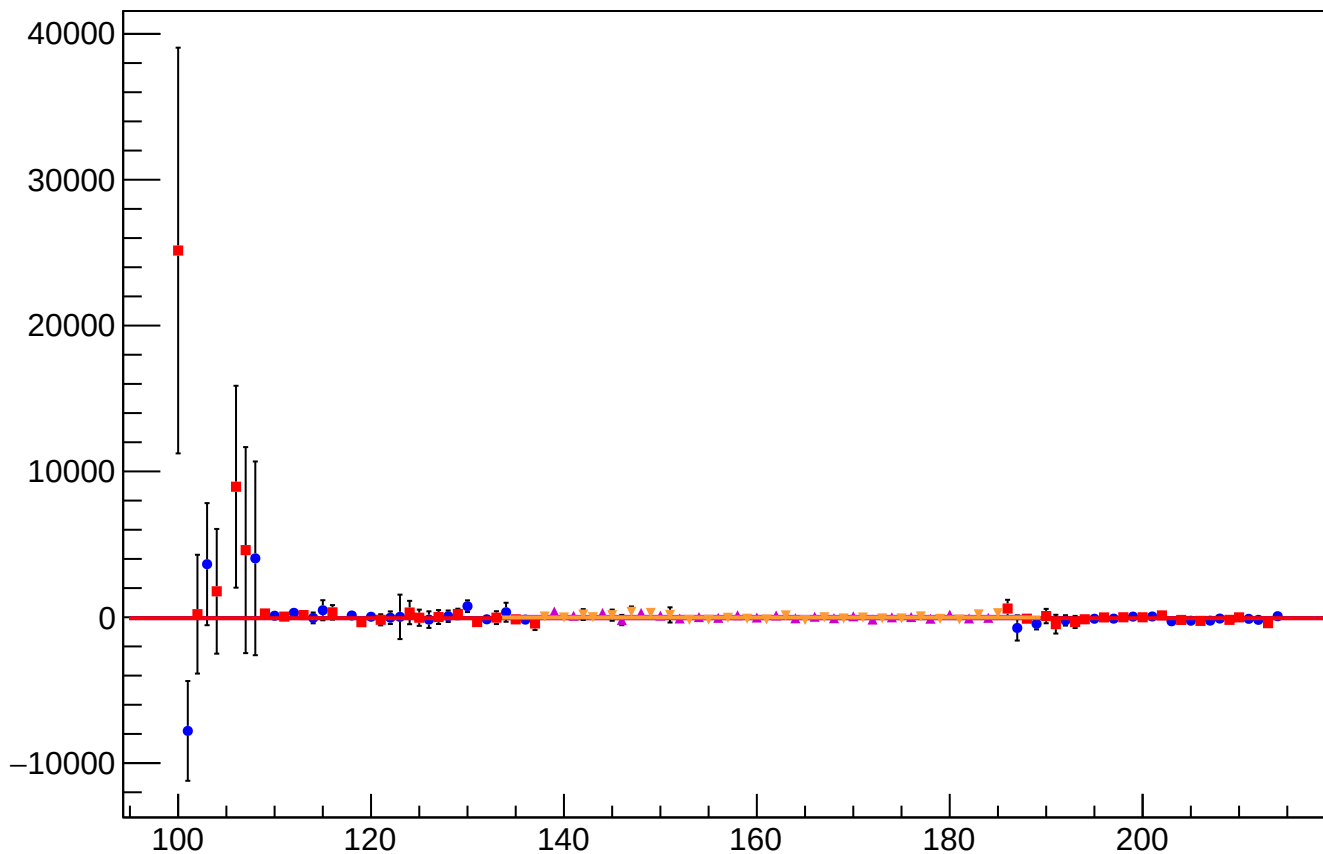
Right: 27.469 $\pm$ 0.004 χ^2 /NDF: 6556742.7/64

In: 28.084 $\pm$ 0.003 χ^2 /NDF: 3196819.9/53

Out: 28.112 $\pm$ 0.003 χ^2 /NDF: 3655926.9/58

All: 28.098 $\pm$ 0.002 χ^2 /NDF: 6852778.8/112

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.698+/-45.611 χ^2/NDF : 22.5/30

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: -64.714+/-46.066 χ^2/NDF : 21.5/33

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

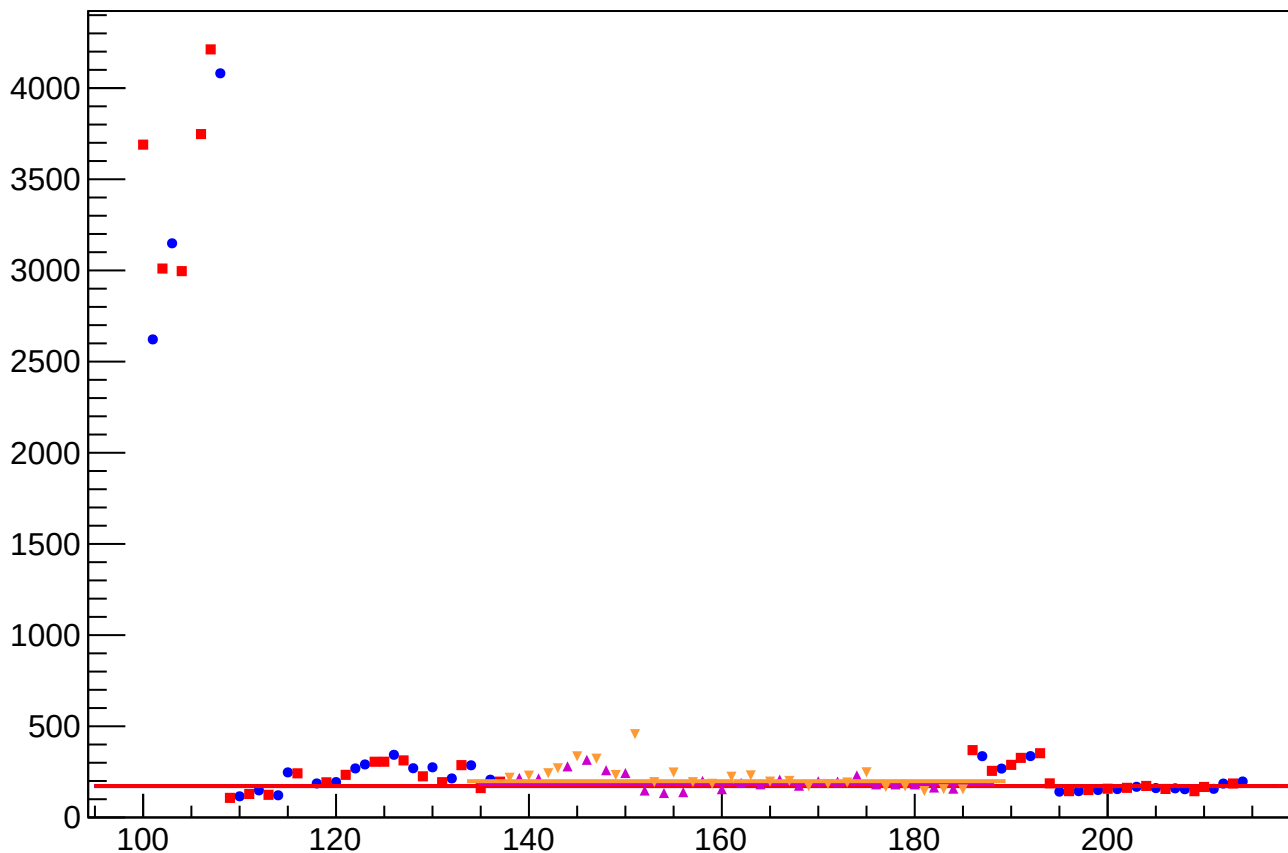
Right: -61.676+/-32.412 χ^2/NDF : 44.0/64

In: -15.984+/-32.356 χ^2/NDF : 31.7/53

Out: -40.422+/-33.288 χ^2/NDF : 30.9/58

All: -27.856+/-23.202 χ^2/NDF : 62.9/112

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.225 $\pm$ 0.032 χ^2 /NDF: 4565266.9/30

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 172.167 $\pm$ 0.033 χ^2 /NDF: 5420056.4/33

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

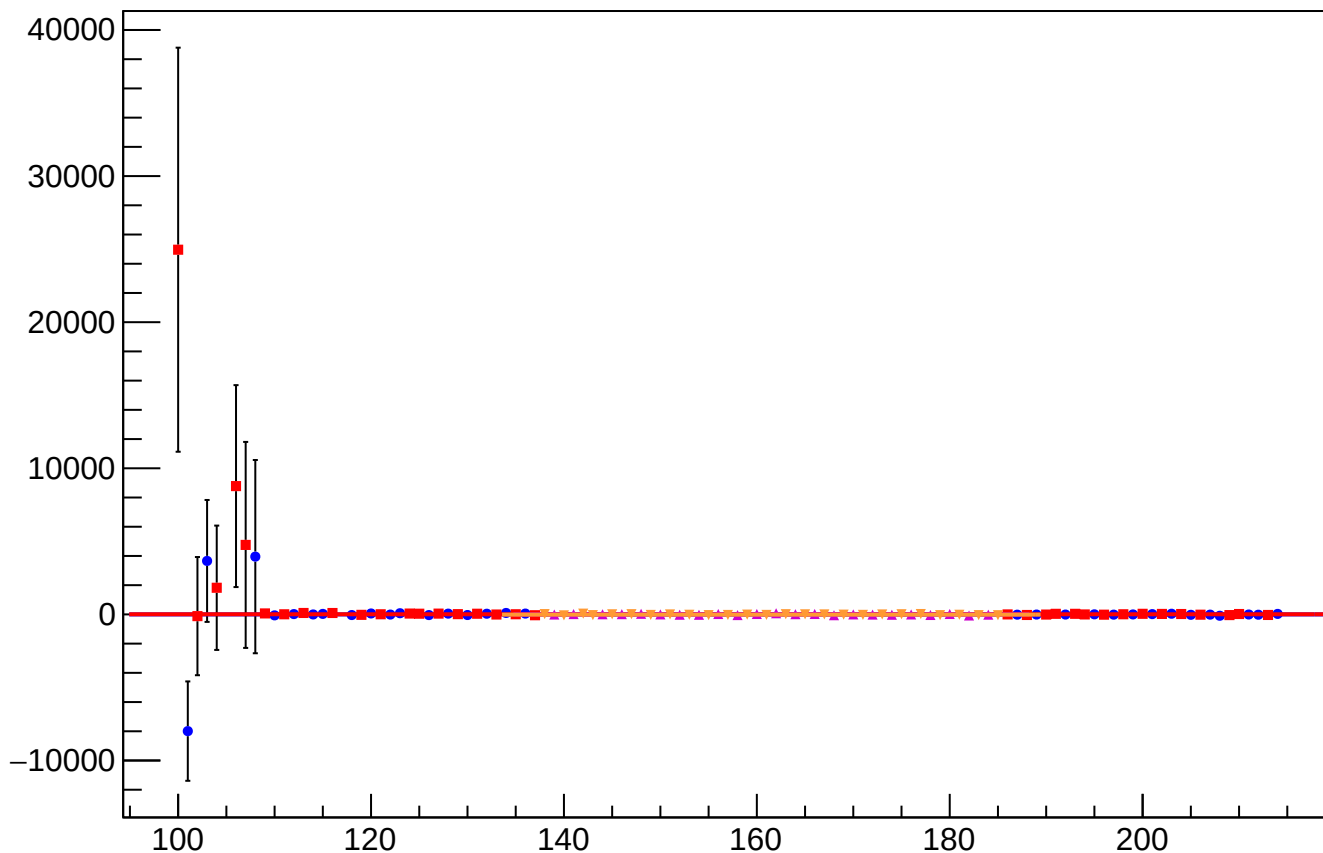
Right: 172.196 $\pm$ 0.023 χ^2 /NDF: 9985324.9/64

In: 177.797 $\pm$ 0.023 χ^2 /NDF:6037694.4/53

Out: 184.987 $\pm$ 0.024 χ^2 /NDF:7621850.3/58

All: 181.290 $\pm$ 0.016 χ^2 /NDF: 13707529.1/11

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.500 ± 7.009 χ^2/NDF : 35.8/30

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: 9.140 ± 7.010 χ^2/NDF : 32.7/33

Left In: -0.498 ± 6.937 χ^2/NDF : 26.1/22

Left: -8.392 ± 4.831 χ^2/NDF : 45.1/47

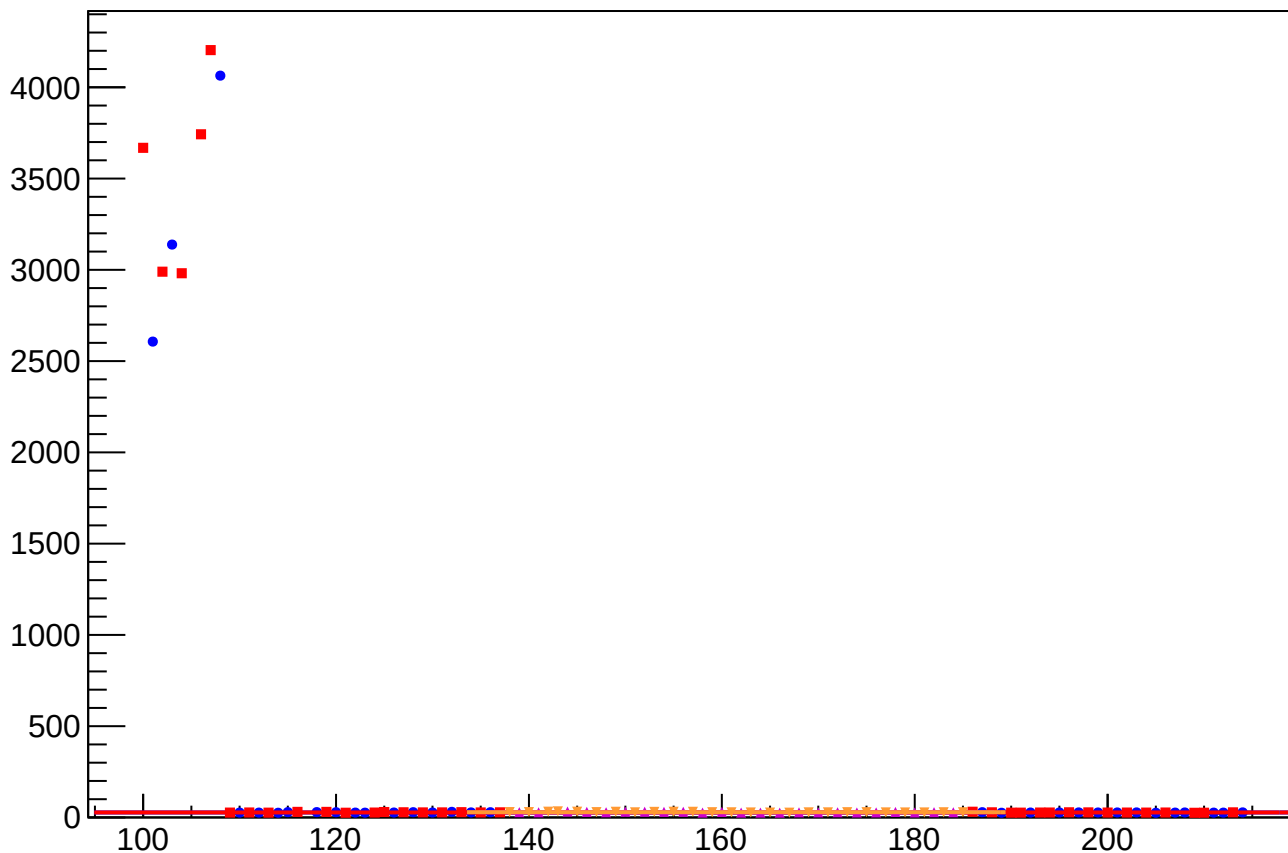
Right: 3.819 ± 4.957 χ^2/NDF : 69.6/64

In: -0.994 ± 4.930 χ^2/NDF : 62.0/53

Out: -3.848 ± 4.856 χ^2/NDF : 55.8/58

All: -2.442 ± 3.460 χ^2/NDF : 117.9/112

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.324+/-0.005 χ^2/NDF : 3050290.4/30

Left Out: 28.814+/-0.005 χ^2/NDF :122153.6/24

Right Out: 27.381+/-0.005 χ^2/NDF : 3517364.9/33

Left In: 28.797+/-0.005 χ^2/NDF :128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

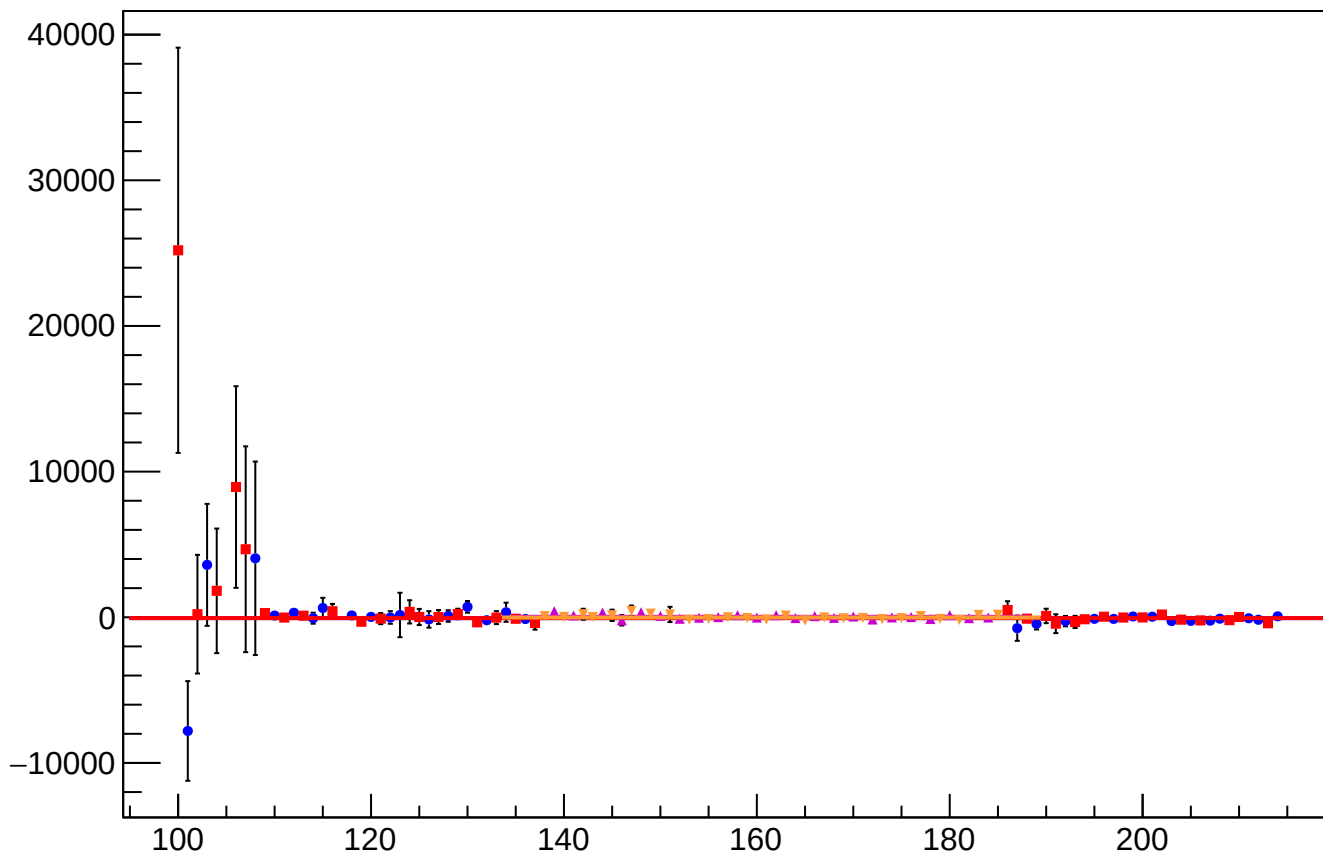
Right: 27.353+/-0.004 χ^2/NDF : 6567721.1/64

In: 28.068+/-0.003 χ^2/NDF :3223199.3/53

Out: 28.127+/-0.003 χ^2/NDF :3682998.5/58

All: 28.098+/-0.002 χ^2/NDF : 6906339.3/112

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.619 ± 45.918 χ^2/NDF : 22.6/30

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: -57.336 ± 46.398 χ^2/NDF : 21.0/33

Left In: 31.477 ± 46.483 χ^2/NDF : 7.8/22

Left: 9.830 ± 33.637 χ^2/NDF : 16.4/47

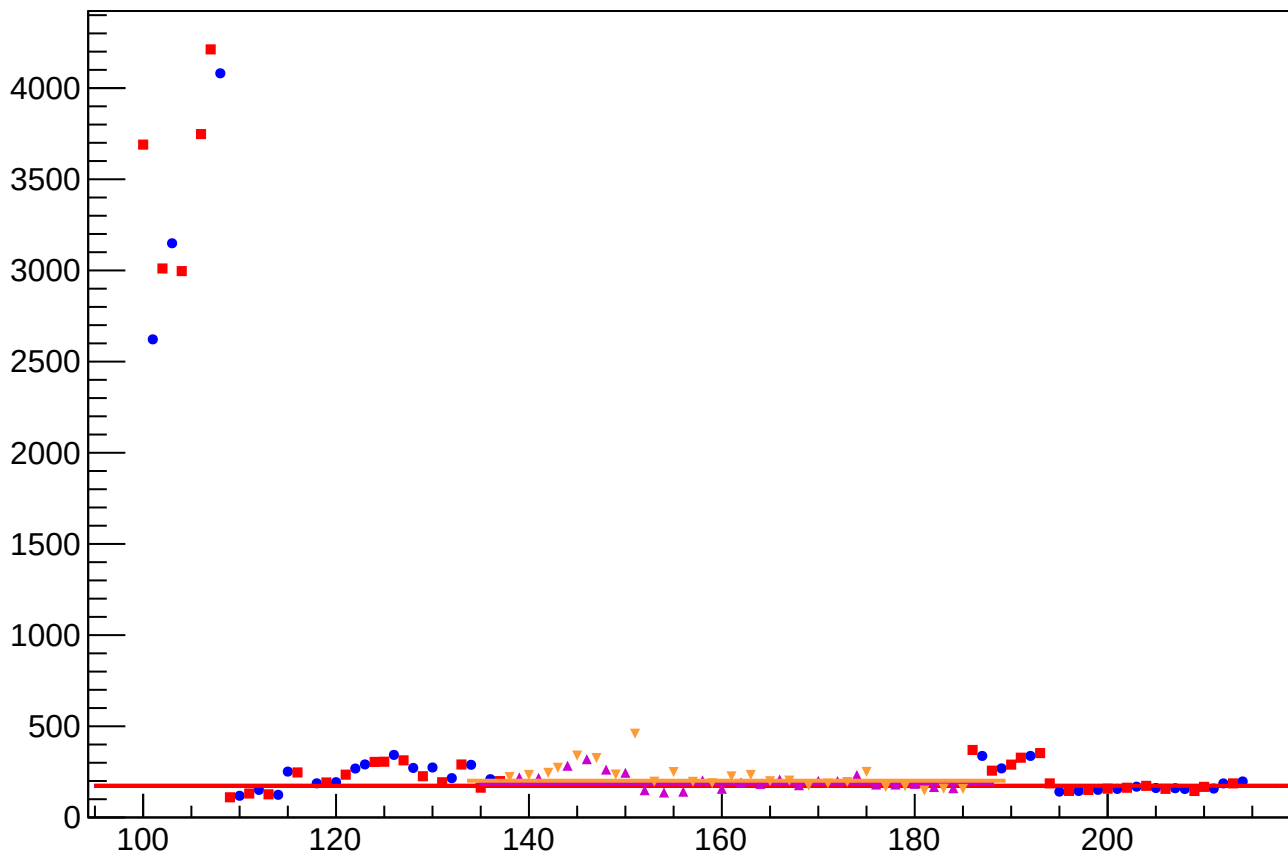
Right: -57.479 ± 32.637 χ^2/NDF : 43.6/64

In: -13.616 ± 32.667 χ^2/NDF : 32.3/53

Out: -36.716 ± 33.604 χ^2/NDF : 29.6/58

All: -24.839 ± 23.423 χ^2/NDF : 62.1/112

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.481+/-0.032 χ^2/NDF : 4531142.9/30

Left Out: 201.503+/-0.034 χ^2/NDF :1854905.1/24

Right Out: 173.608+/-0.033 χ^2/NDF : 5360354.9/33

Left In: 185.878+/-0.033 χ^2/NDF :1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

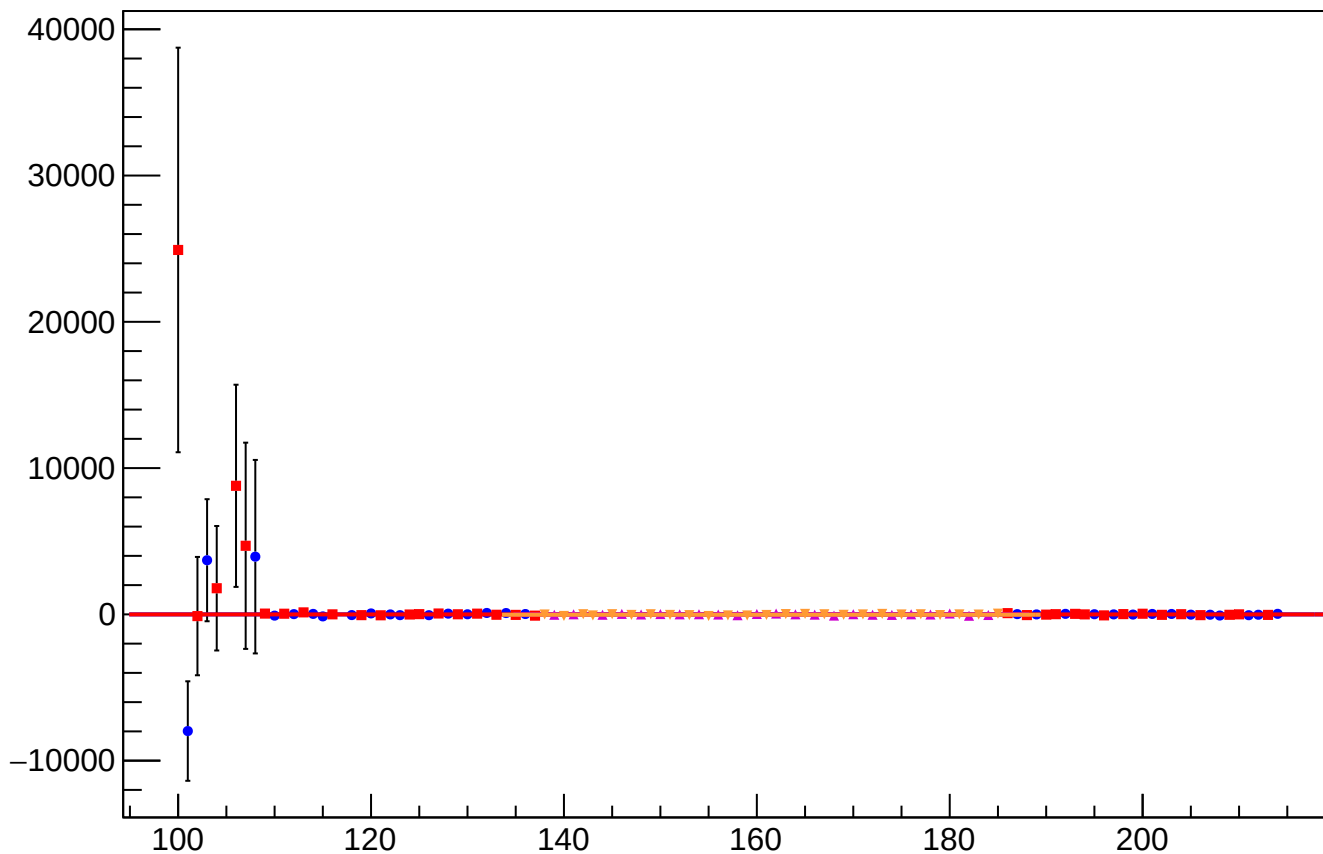
Right: 173.544+/-0.023 χ^2/NDF : 9891505.4/64

In: 179.604+/-0.023 χ^2/NDF :5984025.9/53

Out: 186.871+/-0.024 χ^2/NDF :7558956.7/58

All: 183.134+/-0.017 χ^2/NDF : 13591067.1/11

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.783 ± 8.556 χ^2/NDF : 30.4/30

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: -2.417 ± 8.556 χ^2/NDF : 35.6/33

Left In: -5.924 ± 8.340 χ^2/NDF : 21.0/22

Left: -15.326 ± 5.802 χ^2/NDF : 48.4/47

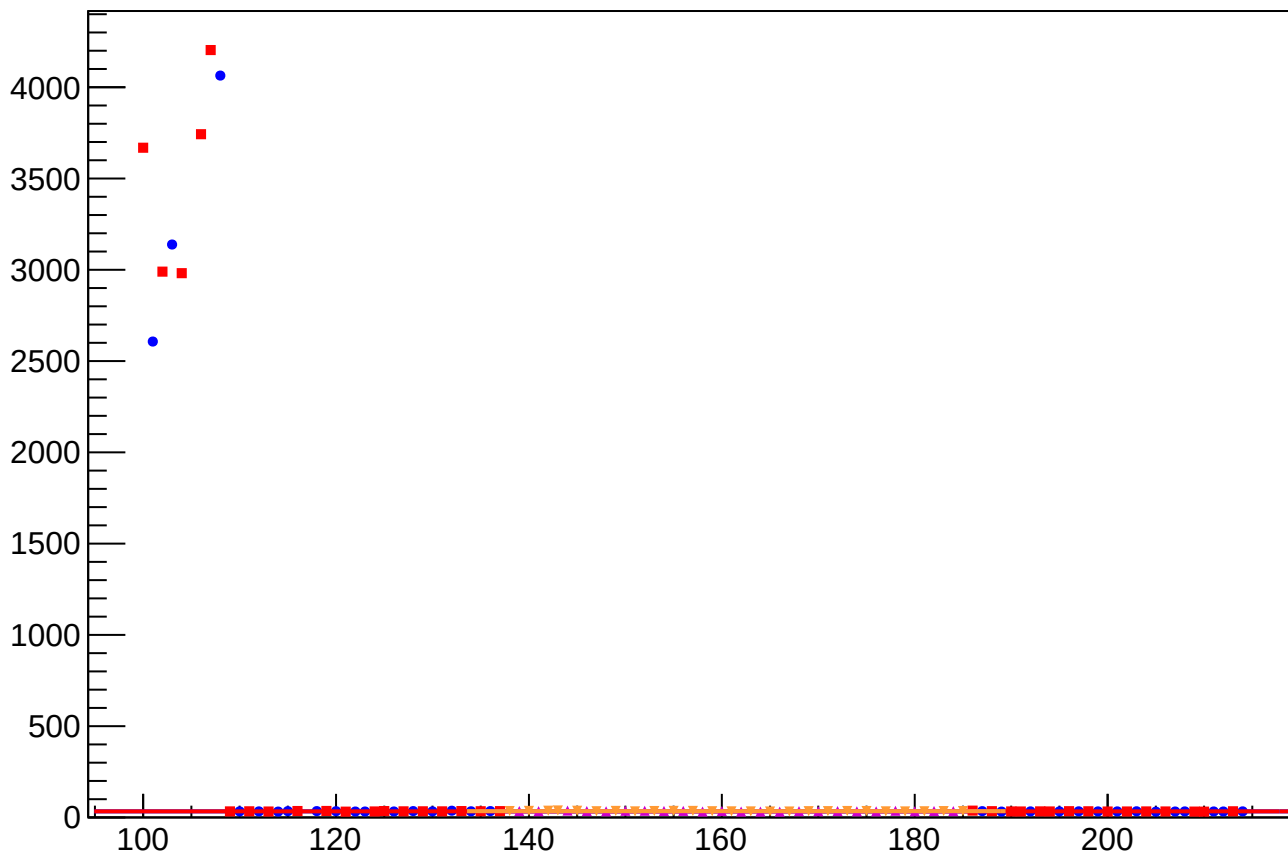
Right: -1.600 ± 6.050 χ^2/NDF : 66.0/64

In: -3.420 ± 5.972 χ^2/NDF : 51.5/53

Out: -13.907 ± 5.873 χ^2/NDF : 63.9/58

All: -8.751 ± 4.188 χ^2/NDF : 117.0/112

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.380 $\pm$ 0.006 χ^2 /NDF: 3020187.4/30

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.467 $\pm$ 0.006 χ^2 /NDF: 3474183.2/33

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47

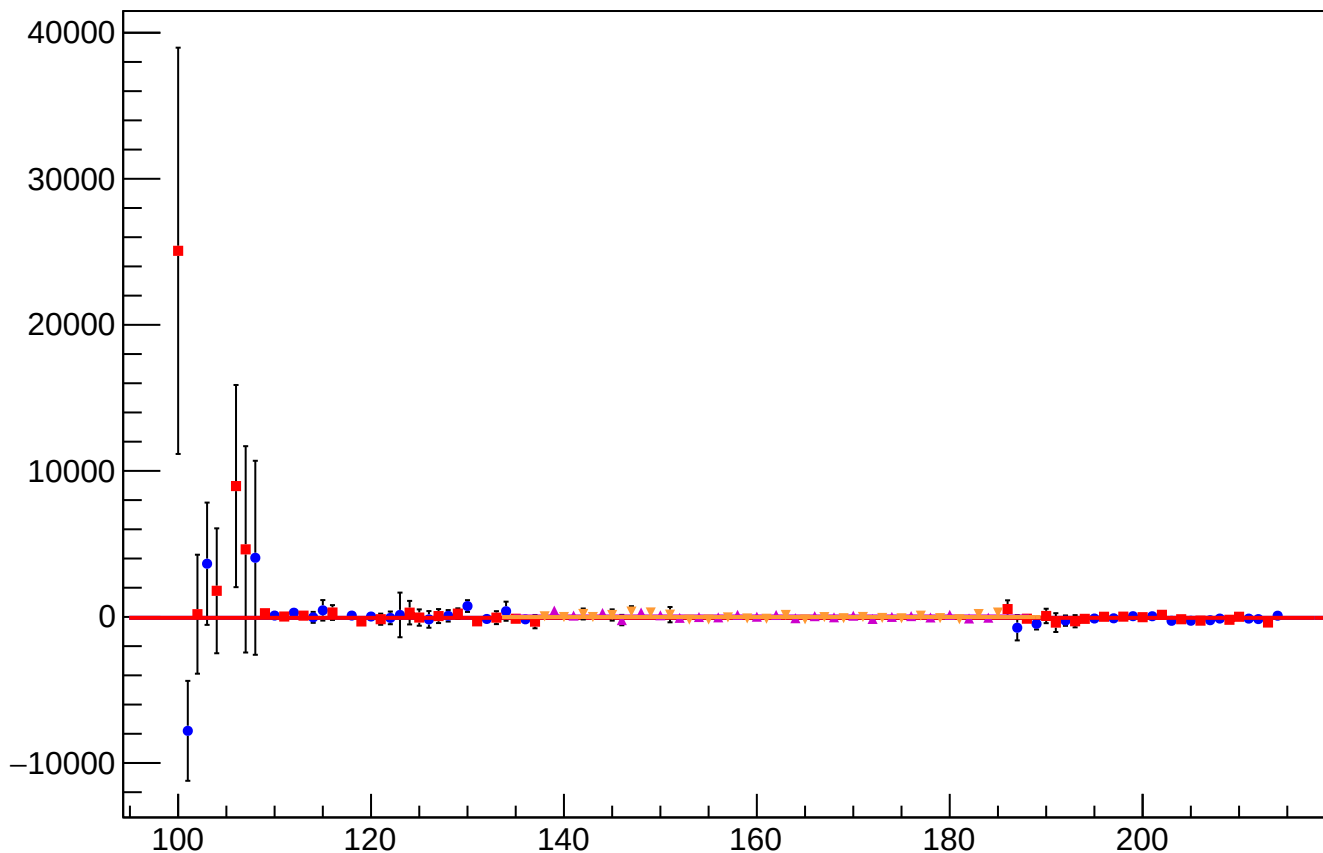
Right: 33.423 $\pm$ 0.004 χ^2 /NDF: 6494473.6/64

In: 34.048 $\pm$ 0.004 χ^2 /NDF: 3103764.3/53

Out: 34.075 $\pm$ 0.004 χ^2 /NDF: 3551182.7/58

All: 34.062 $\pm$ 0.003 χ^2 /NDF: 6654969.0/112

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.526 ± 45.786 $\chi^2/\text{NDF}: 22.3/30$

Left Out: -7.558 ± 48.662 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -61.649 ± 46.228 $\chi^2/\text{NDF}: 19.4/33$

Left In: 34.977 ± 46.421 $\chi^2/\text{NDF}: 7.1/22$

Left: 14.712 ± 33.589 $\chi^2/\text{NDF}: 16.3/47$

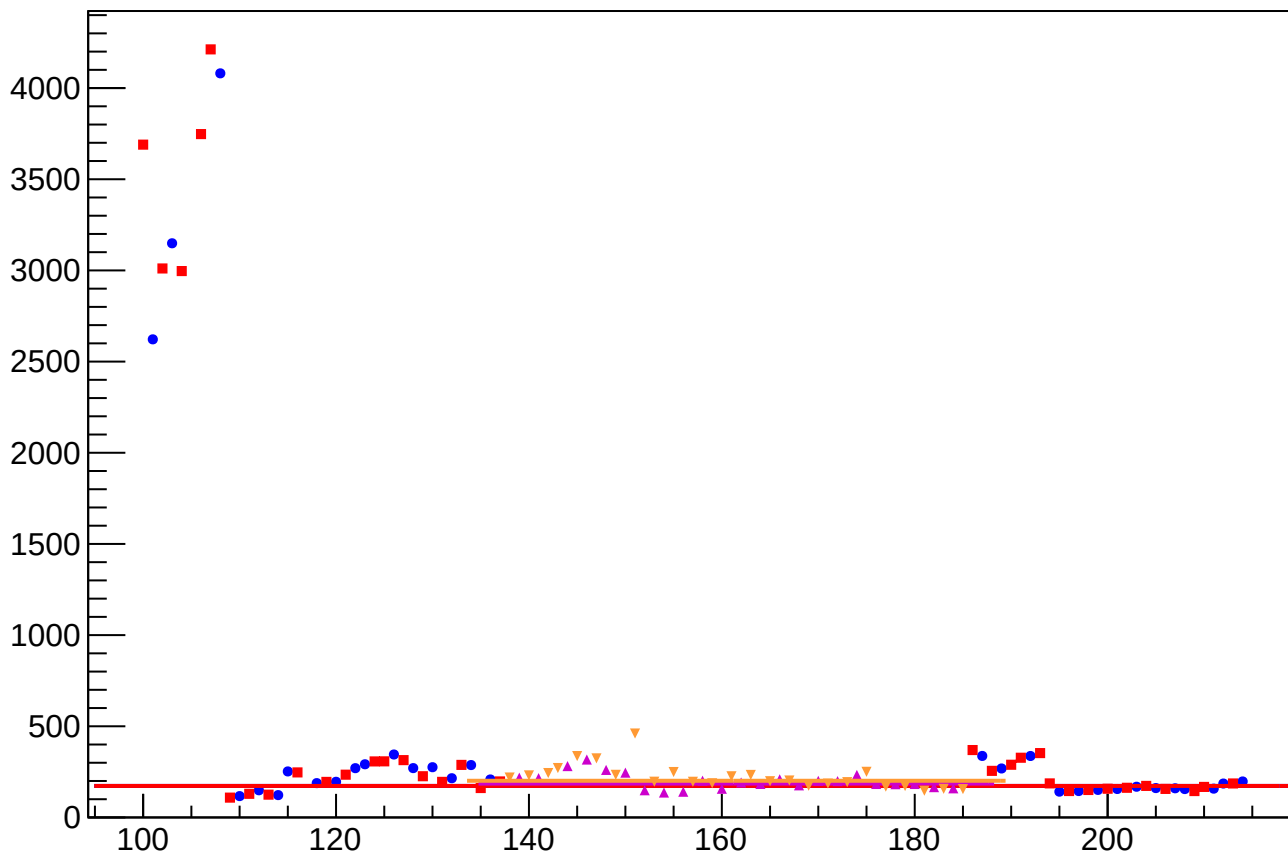
Right: -62.092 ± 32.531 $\chi^2/\text{NDF}: 41.7/64$

In: -14.445 ± 32.598 $\chi^2/\text{NDF}: 31.6/53$

Out: -35.990 ± 33.516 $\chi^2/\text{NDF}: 28.8/58$

All: -24.919 ± 23.368 $\chi^2/\text{NDF}: 60.7/112$

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.905+/-0.032 χ^2/NDF : 4560485.7/30

Left Out: 201.198+/-0.034 χ^2/NDF :1848437.4/24

Right Out: 172.817+/-0.033 χ^2/NDF : 5408420.5/33

Left In: 185.627+/-0.033 χ^2/NDF :1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

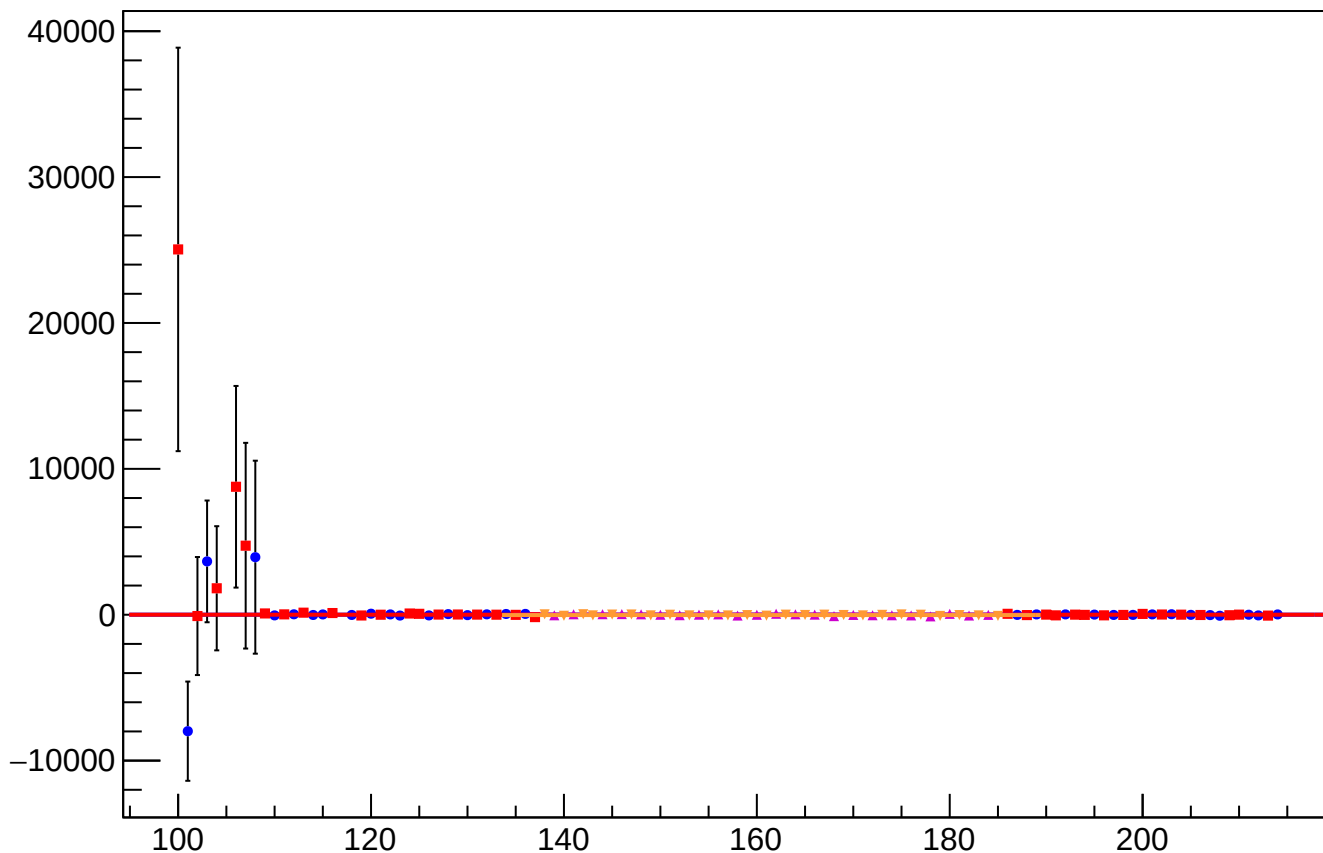
Right: 172.861+/-0.023 χ^2/NDF : 9968909.8/64

In: 179.179+/-0.023 χ^2/NDF :6008047.8/53

Out: 186.280+/-0.024 χ^2/NDF :7614458.6/58

All: 182.631+/-0.017 χ^2/NDF : 13668650.0/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.000 ± 7.743 χ^2/NDF : 24.3/30

Left Out: -23.320 ± 7.352 χ^2/NDF : 18.3/24

Right Out: 2.241 ± 7.745 χ^2/NDF : 41.5/33

Left In: -6.386 ± 7.577 χ^2/NDF : 38.7/22

Left: -15.108 ± 5.276 χ^2/NDF : 59.6/47

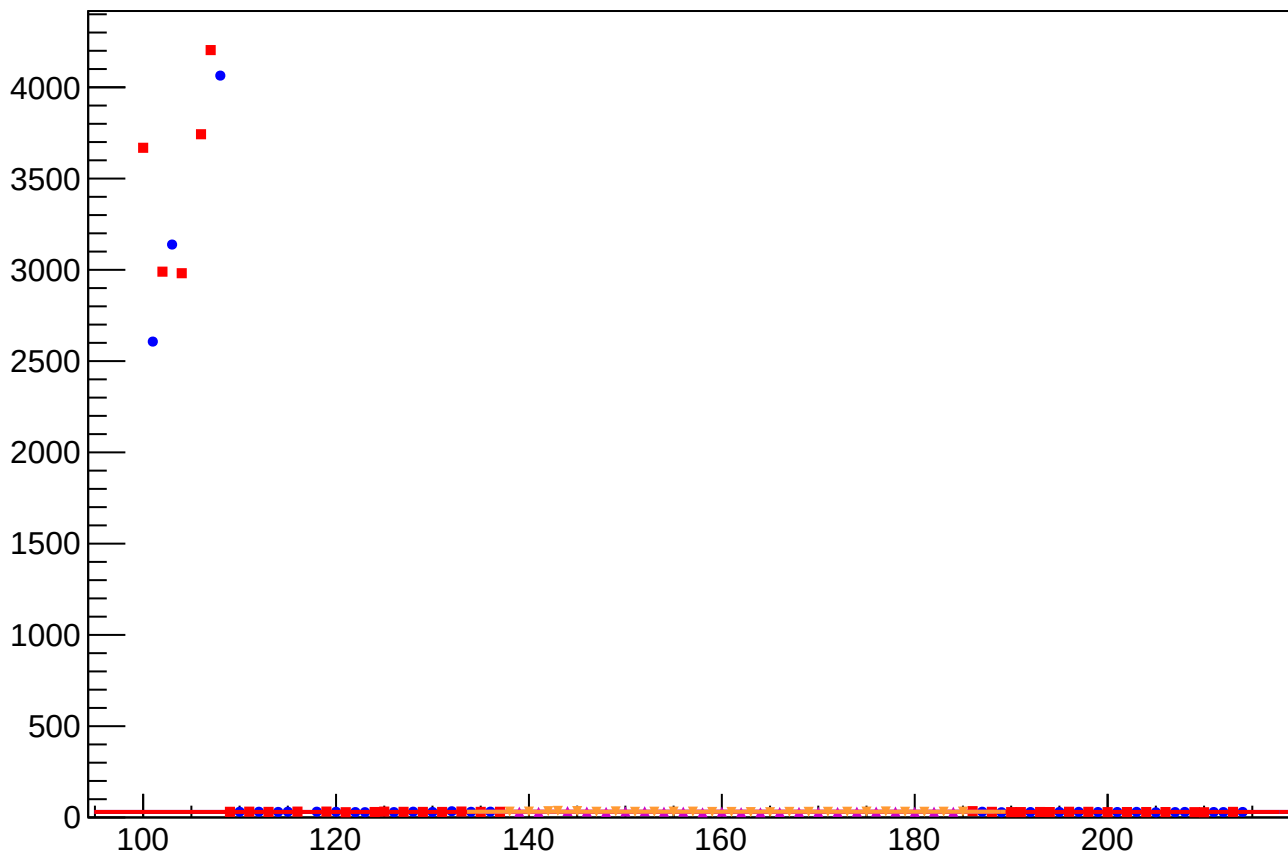
Right: 2.620 ± 5.476 χ^2/NDF : 65.8/64

In: -1.795 ± 5.416 χ^2/NDF : 63.8/53

Out: -11.204 ± 5.332 χ^2/NDF : 65.5/58

All: -6.573 ± 3.799 χ^2/NDF : 130.9/112

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.198 $\pm$ 0.005 χ^2 /NDF: 3038428.2/30

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.268 $\pm$ 0.005 χ^2 /NDF: 3492211.6/33

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF:87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

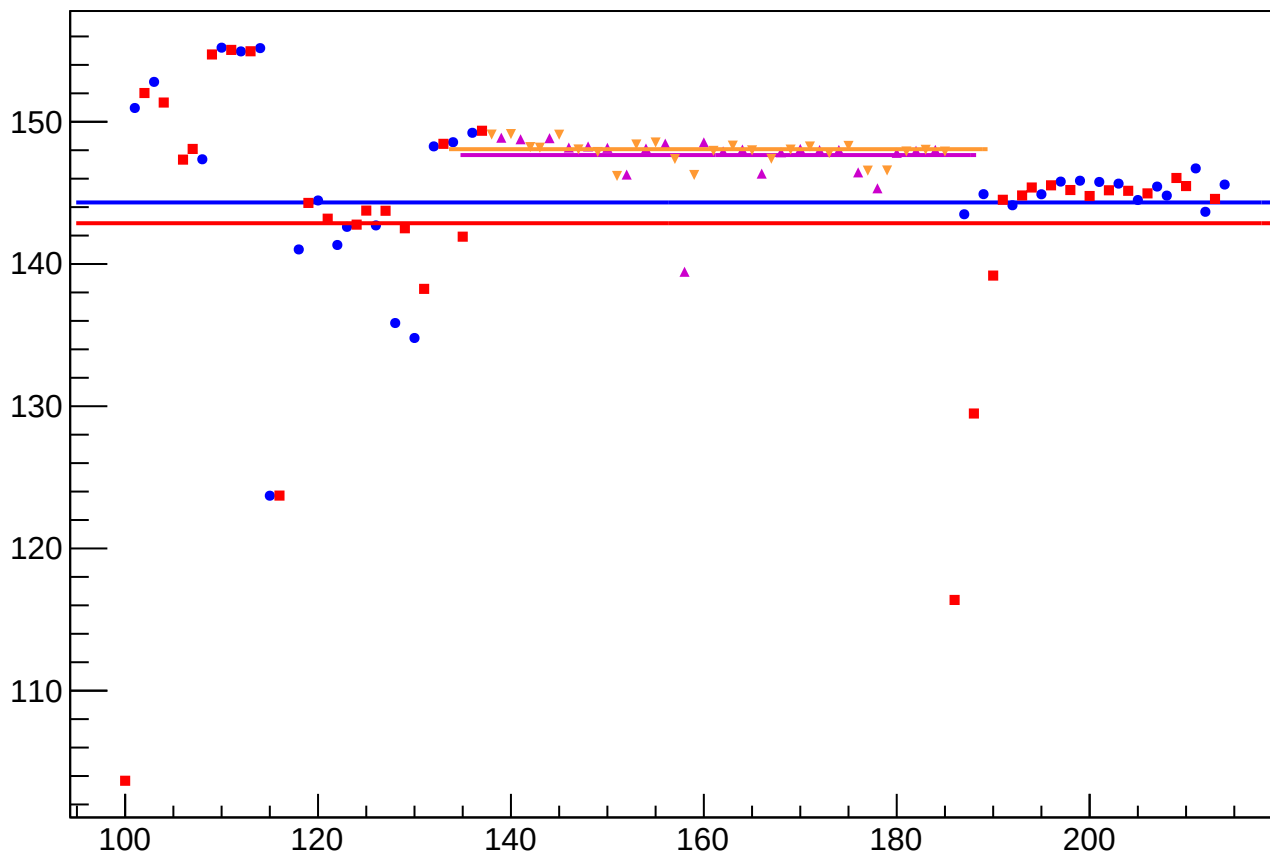
Right: 30.233 $\pm$ 0.004 χ^2 /NDF: 6530721.4/64

In: 30.851 $\pm$ 0.004 χ^2 /NDF:3154027.6/53

Out: 30.910 $\pm$ 0.004 χ^2 /NDF:3600275.1/58

All: 30.881 $\pm$ 0.003 χ^2 /NDF: 6754424.6/112

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.328+/-0.000 χ^2/NDF : 3504179971.4/30

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.868+/-0.000 χ^2/NDF : 7450633308.5/33

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

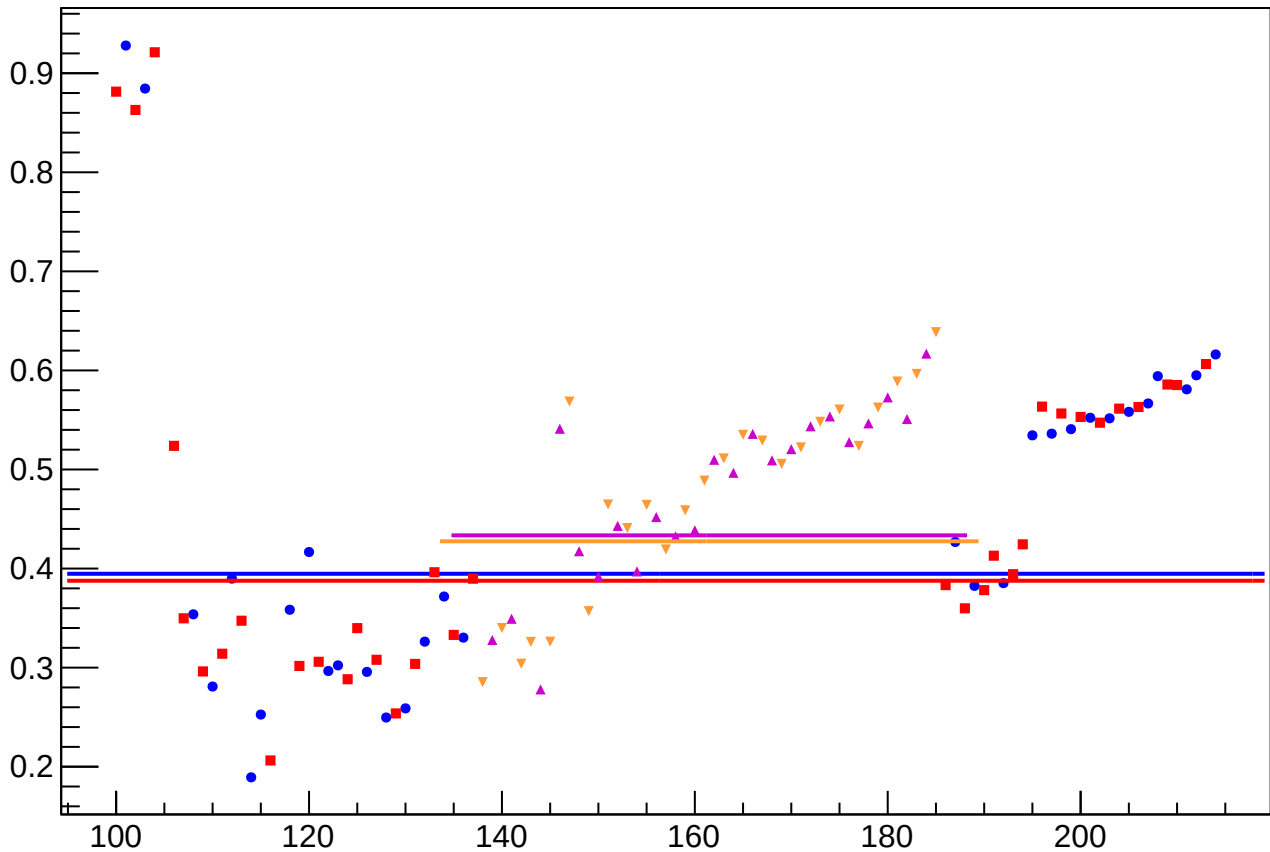
Right: 143.567+/-0.000 χ^2/NDF : 11055786665.4/64

In: 145.948+/-0.000 χ^2/NDF : 4338108297.3/53

Out: 145.386+/-0.000 χ^2/NDF : 8812194456.1/58

All: 145.655+/-0.000 χ^2/NDF : 13179283850.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 3428959.3/30

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 3075457.2/33

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

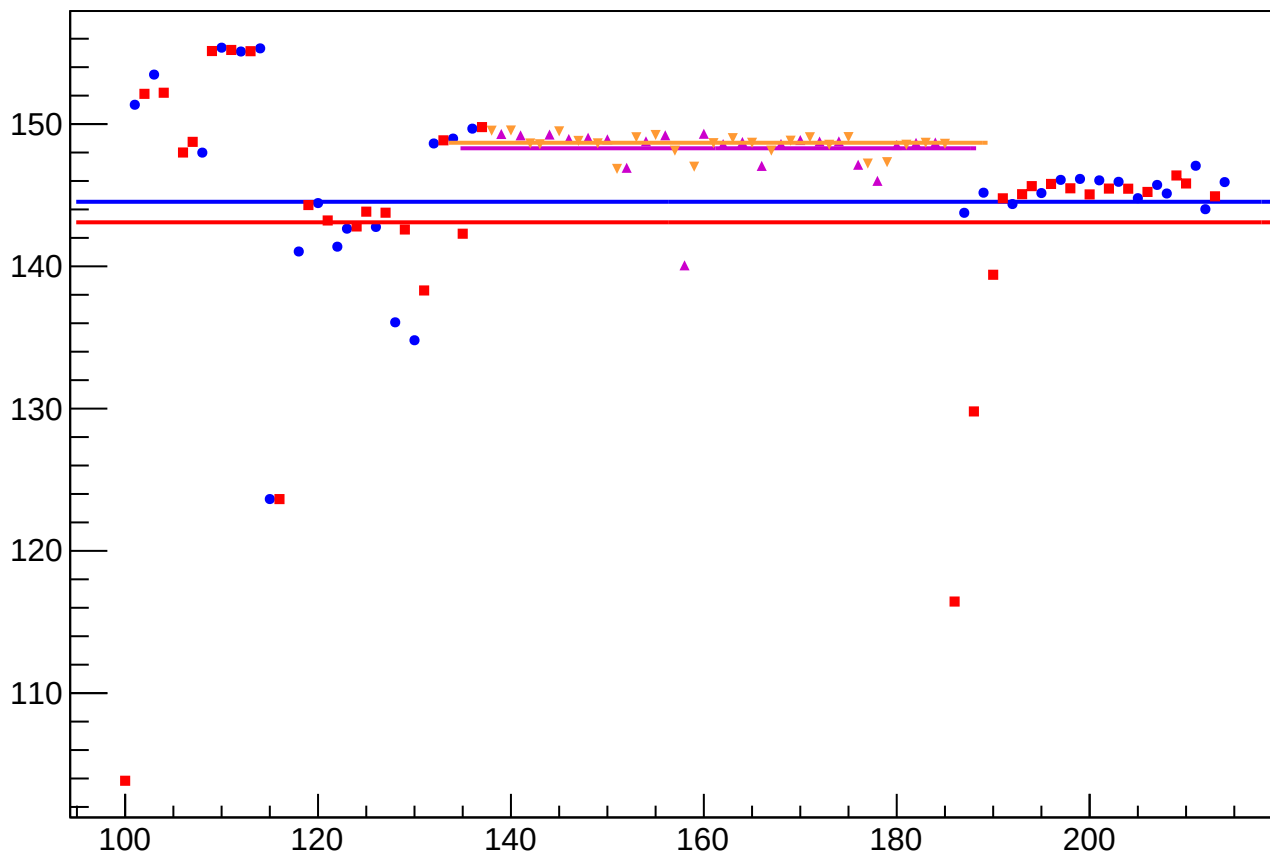
Right: 0.391 $\pm$ 0.000 χ^2 /NDF: 6509103.5/64

In: 0.414 $\pm$ 0.000 χ^2 /NDF:5040988.0/53

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:5119847.6/58

All: 0.410 $\pm$ 0.000 χ^2 /NDF: 10168881.6/112

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.538 $\pm$ 0.000 χ^2 /NDF: 3554701506.2/30

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.095 $\pm$ 0.000 χ^2 /NDF: 7402313816.5/33

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

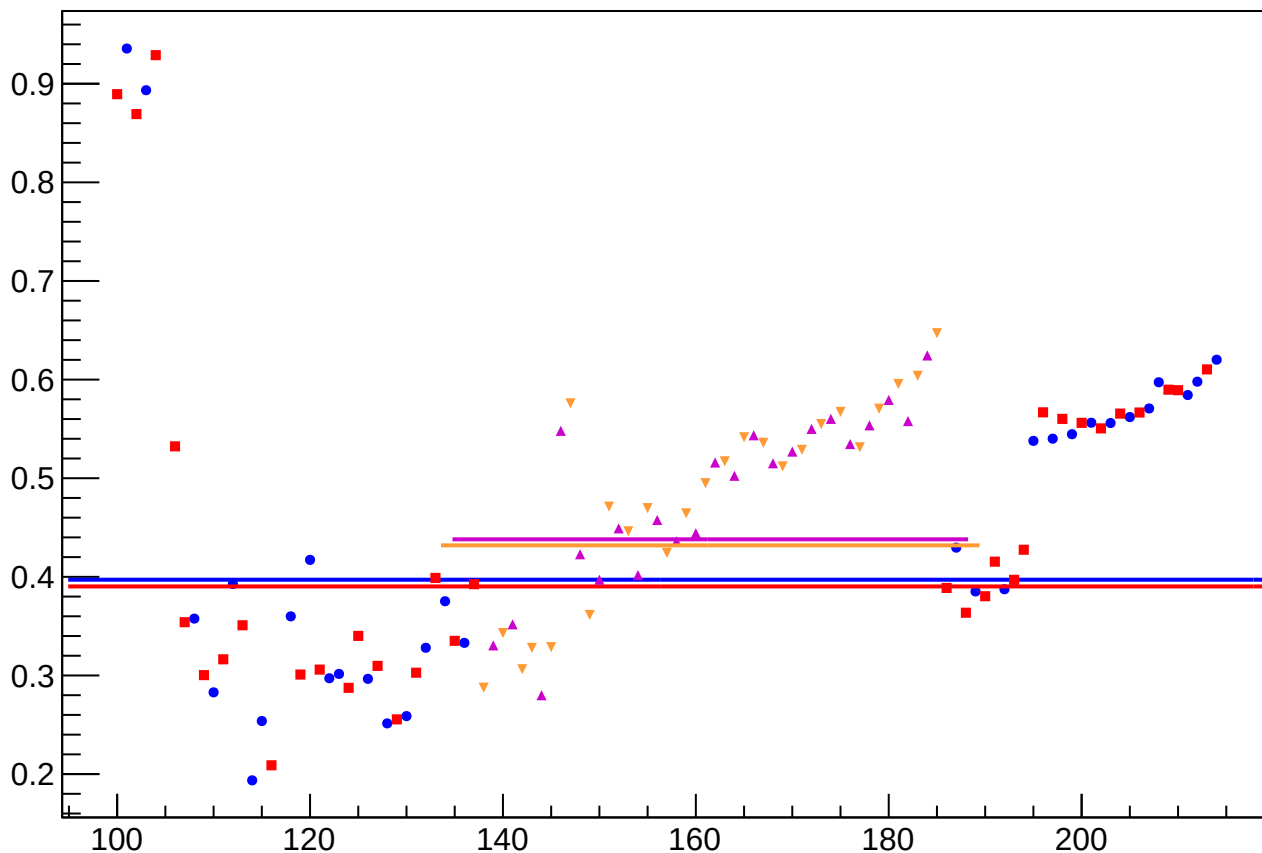
Right: 143.786 $\pm$ 0.000 χ^2 /NDF: 11054305184.9/64

In: 146.356 $\pm$ 0.000 χ^2 /NDF: 4500673924.1/53

Out: 145.789 $\pm$ 0.000 χ^2 /NDF: 8923784262.6/58

All: 146.061 $\pm$ 0.000 χ^2 /NDF: 13453542044.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.397 $\pm$ 0.000 χ^2/NDF : 3436202.1/30

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF : 1924979.0/24

Right Out: 0.390 $\pm$ 0.000 χ^2/NDF : 3079538.6/33

Left In: 0.438 $\pm$ 0.000 χ^2/NDF : 1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2/NDF : 3432903.3/47

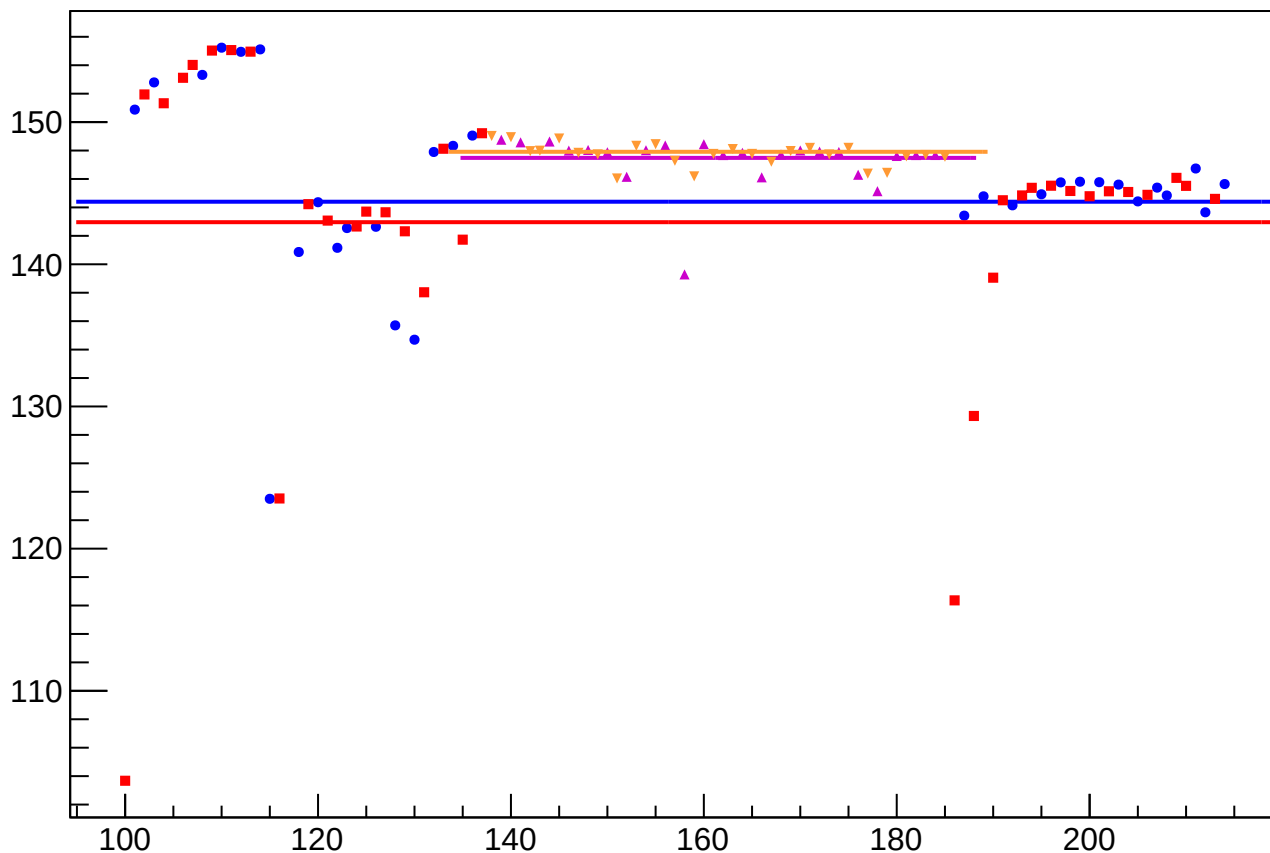
Right: 0.394 $\pm$ 0.000 χ^2/NDF : 6520090.7/64

In: 0.417 $\pm$ 0.000 χ^2/NDF : 5086432.3/53

Out: 0.410 $\pm$ 0.000 χ^2/NDF : 5167456.4/58

All: 0.413 $\pm$ 0.000 χ^2/NDF : 10261688.4/112

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.400 $\pm$ 0.000 χ^2 /NDF: 3709476229.8/30

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.961 $\pm$ 0.000 χ^2 /NDF: 7825139414.0/33

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

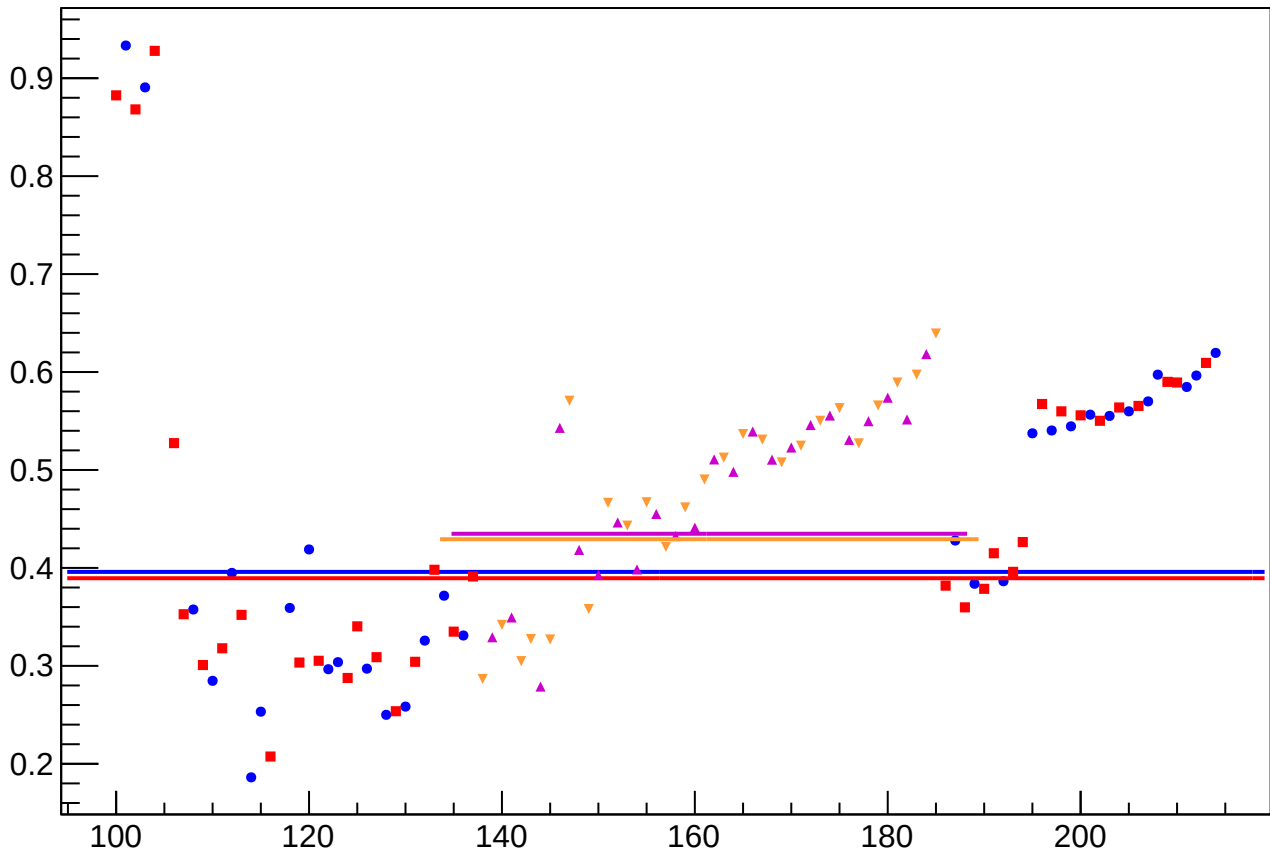
Right: 143.651 $\pm$ 0.000 χ^2 /NDF: 11631869093.3/64

In: 145.899 $\pm$ 0.000 χ^2 /NDF: 4468795162.8/53

Out: 145.357 $\pm$ 0.000 χ^2 /NDF: 9051503709.9/58

All: 145.617 $\pm$ 0.000 χ^2 /NDF: 13547126716.

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.396 $\pm$ 0.000 χ^2 /NDF: 3466614.3/30

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 3083336.0/33

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

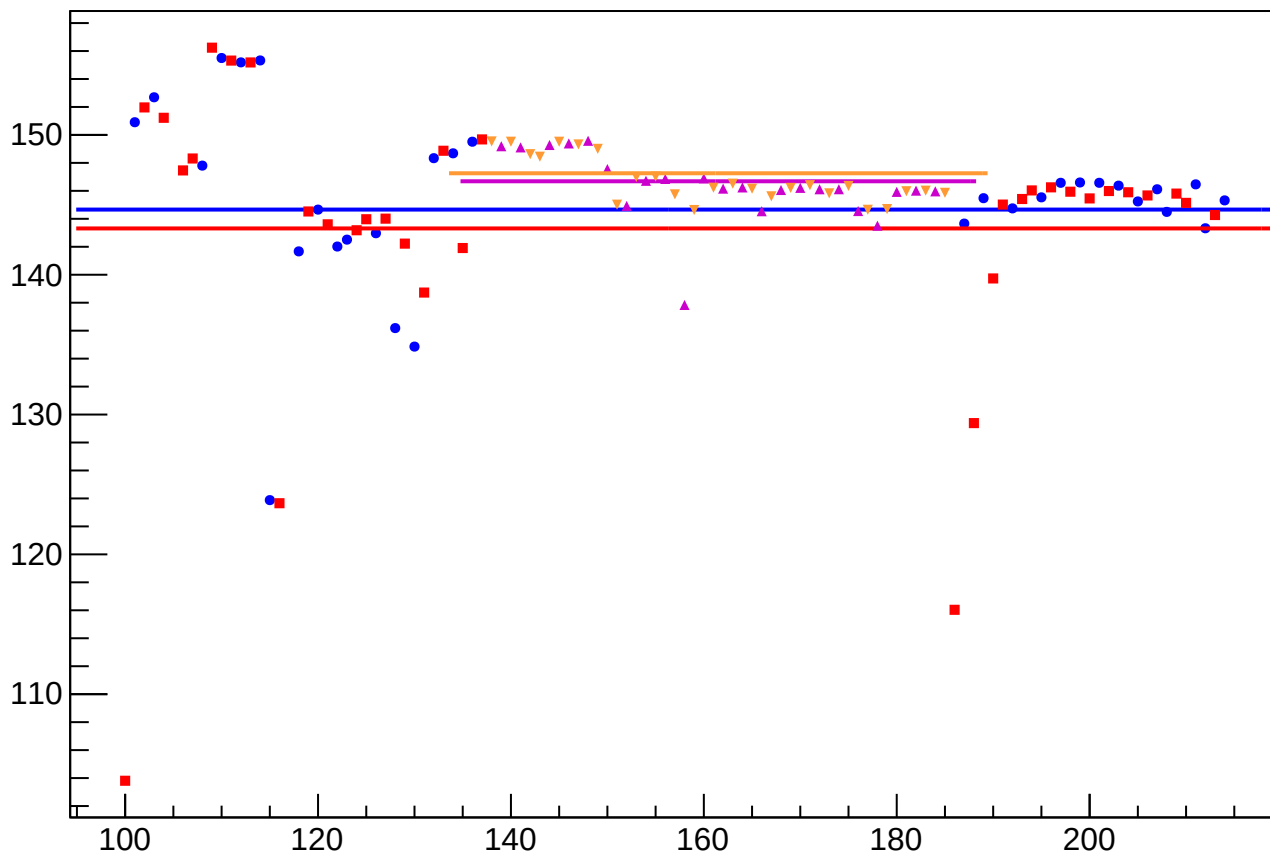
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 6553887.9/64

In: 0.415 $\pm$ 0.000 χ^2 /NDF:5085387.1/53

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:5125458.8/58

All: 0.412 $\pm$ 0.000 χ^2 /NDF: 10217694.3/112

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.661 $\pm$ 0.000 χ^2 /NDF: 3230285435.2/30

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.311 $\pm$ 0.000 χ^2 /NDF: 7143733487.8/33

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

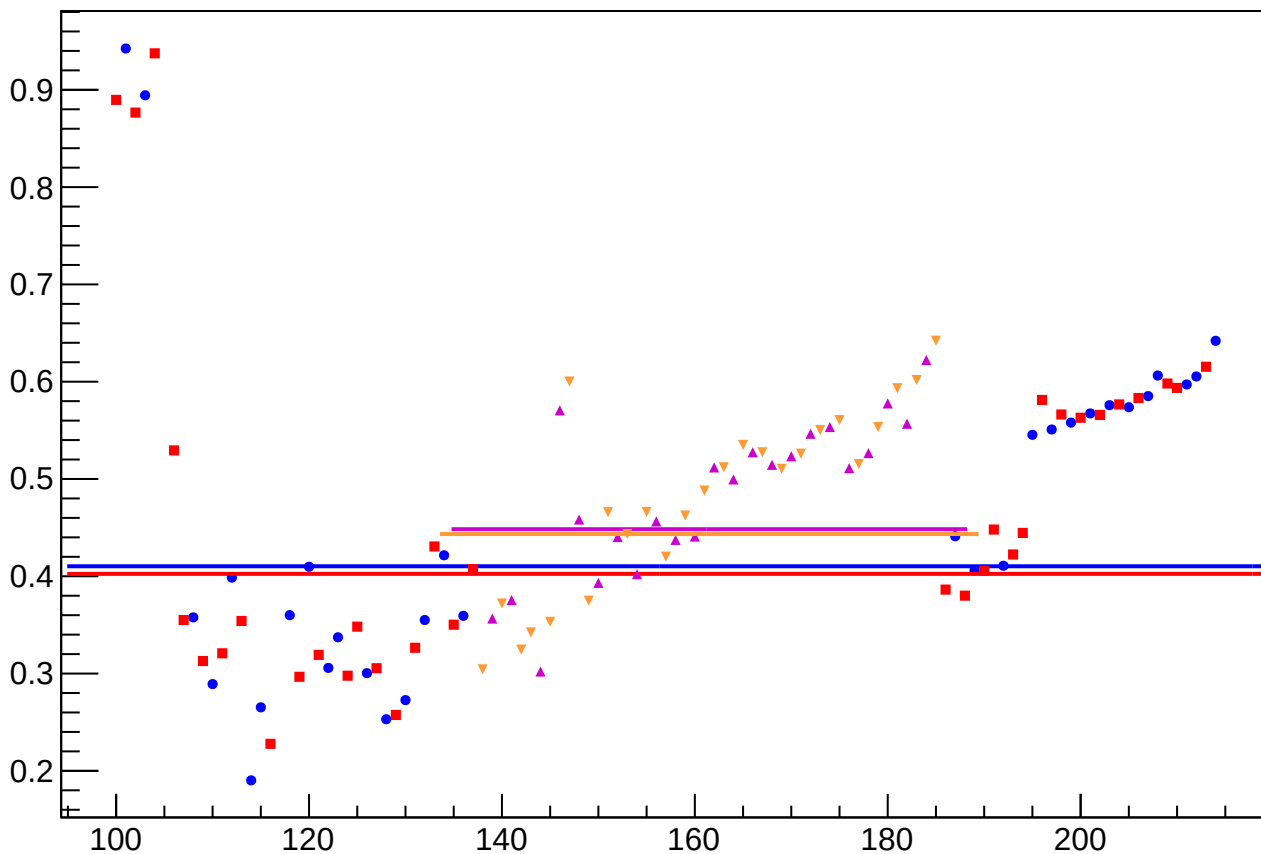
Right: 143.957 $\pm$ 0.000 χ^2 /NDF: 10453832481.4/64

In: 145.655 $\pm$ 0.000 χ^2 /NDF: 3954184421.4/53

Out: 145.232 $\pm$ 0.000 χ^2 /NDF: 8100436052.8/58

All: 145.435 $\pm$ 0.000 χ^2 /NDF: 12069989180.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.410 $\pm$ 0.000 χ^2/NDF : 3360509.1/30

Left Out: 0.443 $\pm$ 0.000 χ^2/NDF :1480479.3/24

Right Out: 0.402 $\pm$ 0.000 χ^2/NDF : 2975695.8/33

Left In: 0.448 $\pm$ 0.000 χ^2/NDF :1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2/NDF : 2602838.0/47

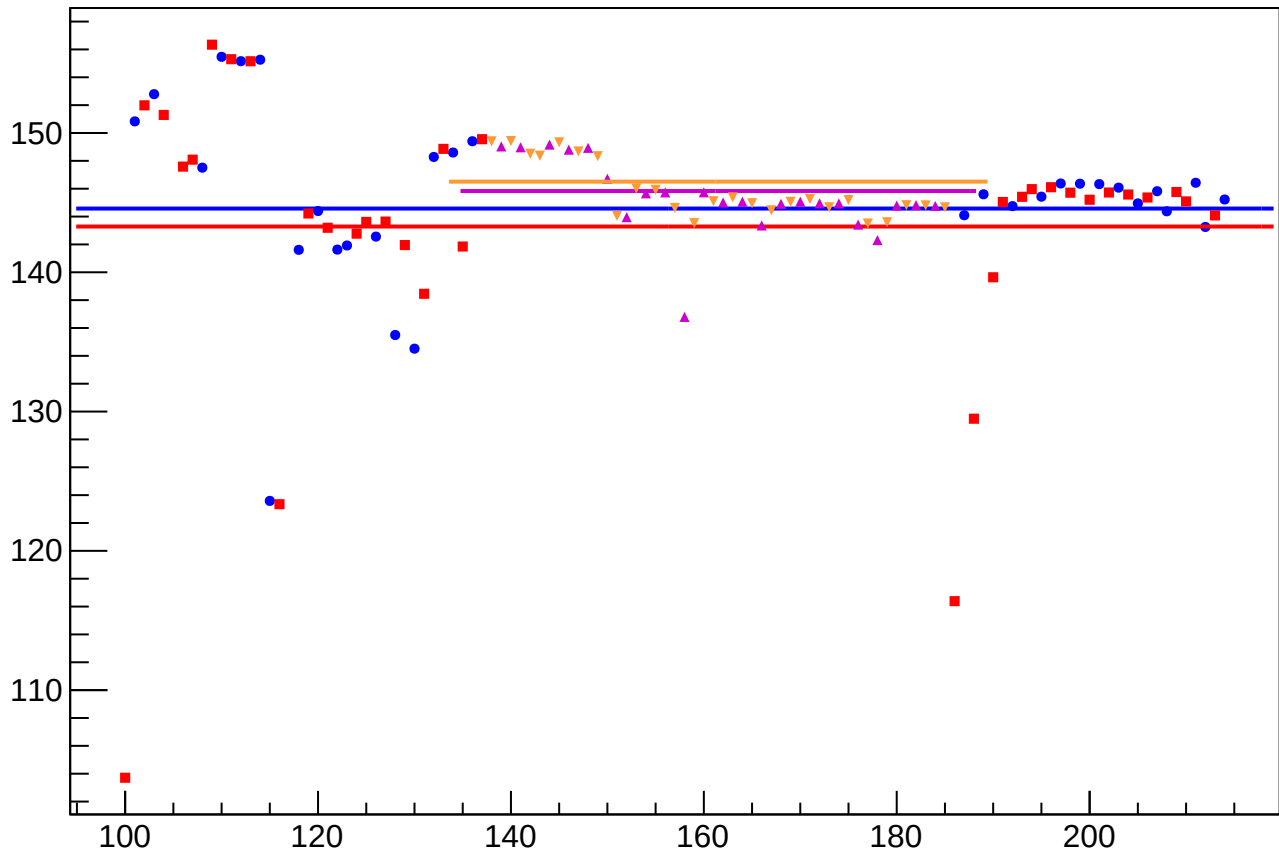
Right: 0.406 $\pm$ 0.000 χ^2/NDF : 6341548.9/64

In: 0.429 $\pm$ 0.000 χ^2/NDF :4600494.3/53

Out: 0.422 $\pm$ 0.000 χ^2/NDF :4605489.6/58

All: 0.426 $\pm$ 0.000 χ^2/NDF : 9213488.7/112

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.575+/-0.000 χ^2/NDF : 3340106300.9/30

Left Out: 146.508+/-0.000 χ^2/NDF : 401248837.9/24

Right Out: 143.285+/-0.000 χ^2/NDF : 7096224142.5/33

Left In: 145.834+/-0.000 χ^2/NDF : 690172810.0/22

Left: 146.184+/-0.000 χ^2/NDF : 1110403123.5/47

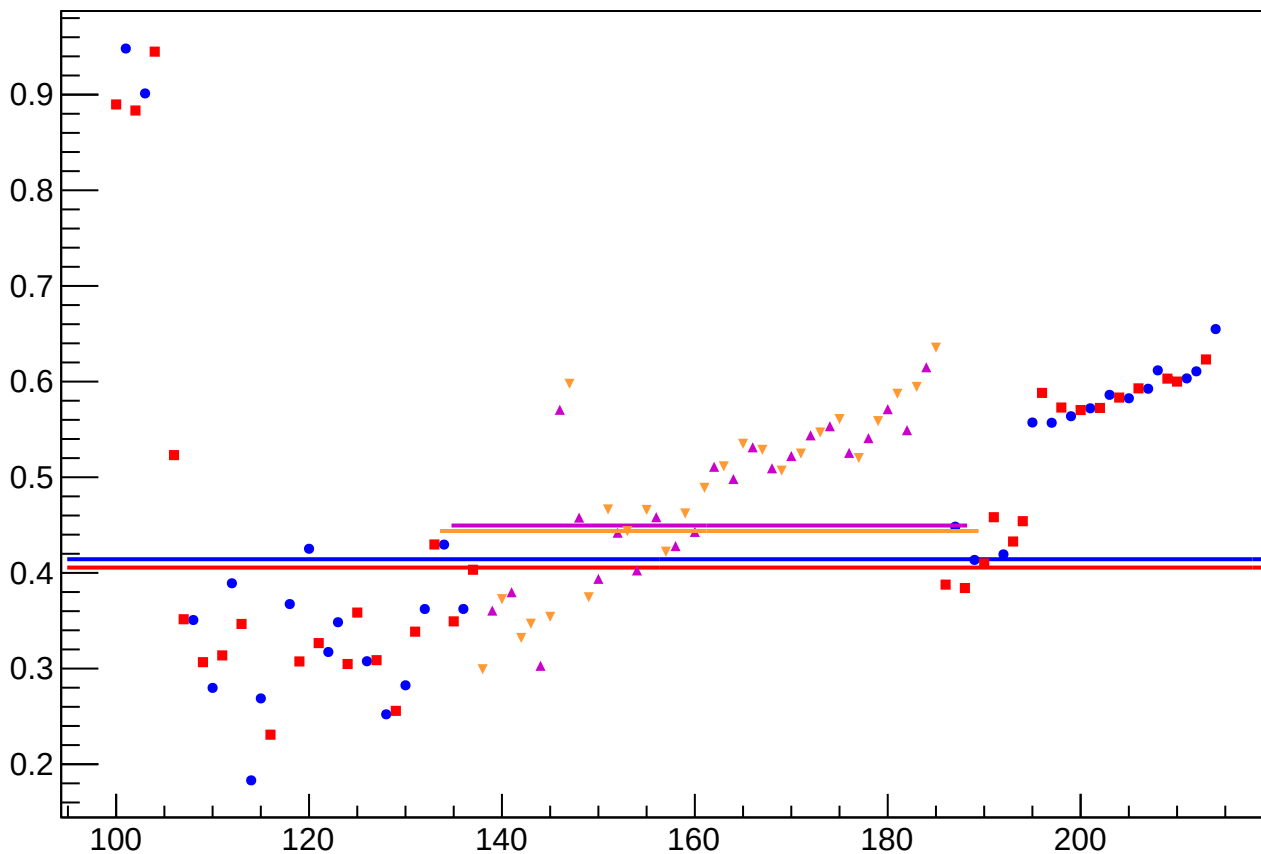
Right: 143.900+/-0.000 χ^2/NDF : 10507788402.5/64

In: 145.199+/-0.000 χ^2/NDF : 4094752223.8/53

Out: 144.867+/-0.000 χ^2/NDF : 7956397859.7/58

All: 145.026+/-0.000 χ^2/NDF : 12060514078.0/114

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.414 $\pm$ 0.000 χ^2 /NDF: 3415551.2/30

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.406 $\pm$ 0.000 χ^2 /NDF: 3013430.7/33

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

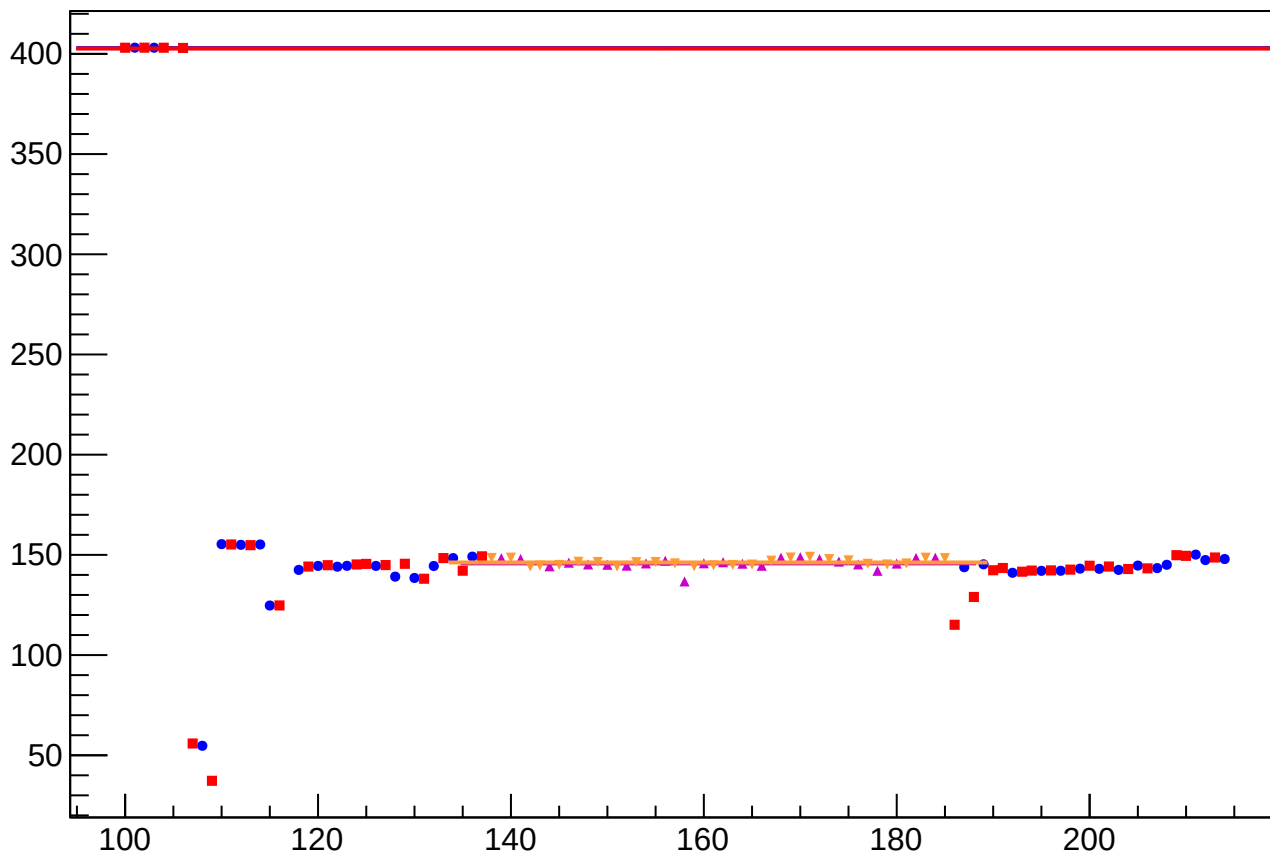
Right: 0.410 $\pm$ 0.000 χ^2 /NDF: 6435522.7/64

In: 0.432 $\pm$ 0.000 χ^2 /NDF:4609238.8/53

Out: 0.424 $\pm$ 0.000 χ^2 /NDF:4602861.2/58

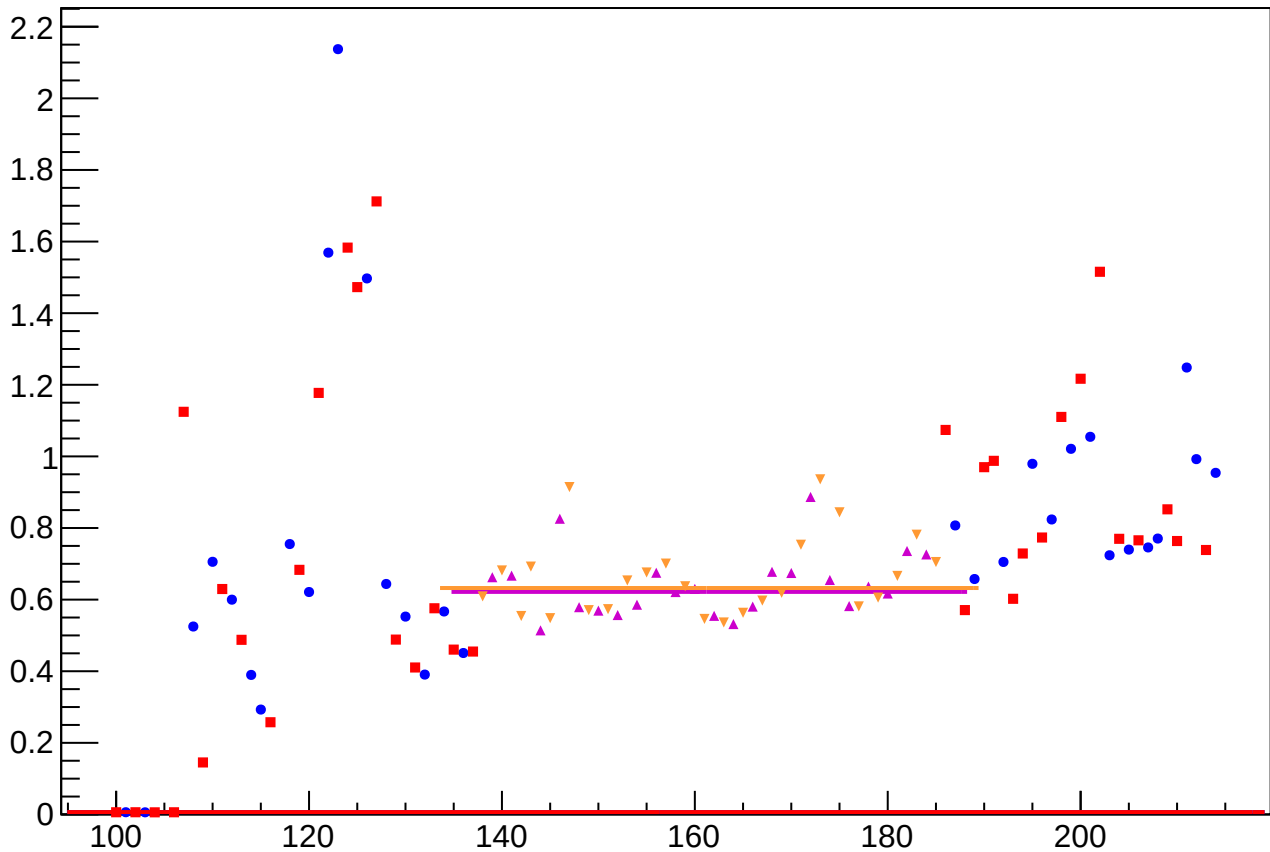
All: 0.428 $\pm$ 0.000 χ^2 /NDF: 9221456.6/112

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.863 $\pm$ 0.000 χ^2 /NDF: 1860003320131.7/30
 Left Out: 146.216 $\pm$ 0.000 χ^2 /NDF: 86042286.3/24
 Right Out: 402.694 $\pm$ 0.000 χ^2 /NDF: 4066066385367.7/33
 Left In: 145.755 $\pm$ 0.000 χ^2 /NDF: 206171532.0/22
 Left: 145.987 $\pm$ 0.000 χ^2 /NDF: 295994641.0/47
 Right: 402.773 $\pm$ 0.000 χ^2 /NDF: 5926538837933.4/47
 In: 402.572 $\pm$ 0.000 χ^2 /NDF: 4190559082213.4/53
 Out: 402.434 $\pm$ 0.000 χ^2 /NDF: 6422843298512.0/53
 All: 402.499 $\pm$ 0.000 χ^2 /NDF: 106137178356.0/106

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 24908258.3/30

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 26285318.2/33

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

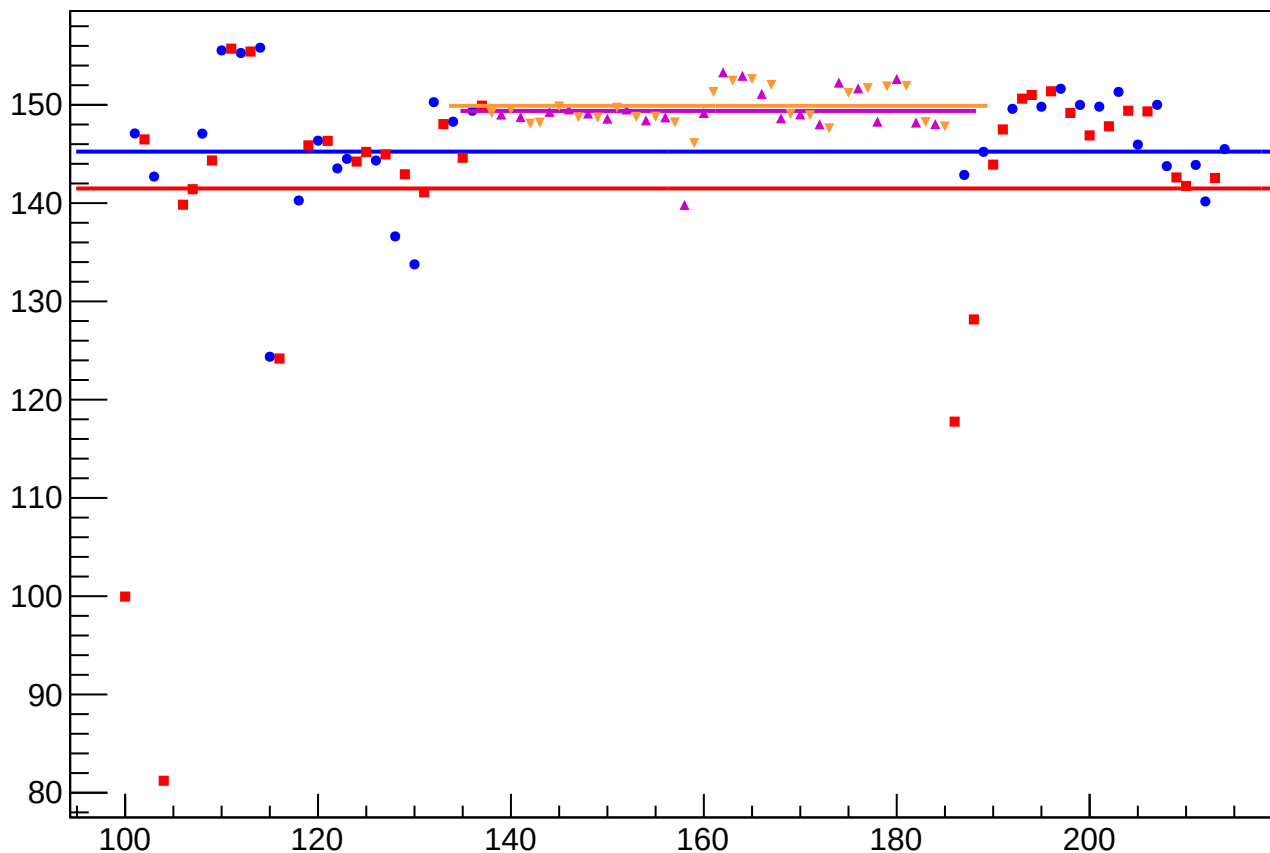
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 51193578.6/64

In: 0.007 $\pm$ 0.000 χ^2 /NDF:51972106.6/53

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:54957924.2/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 106930184.7/112

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.241 $\pm$ 0.000 χ^2 /NDF: 1359796630.3/30

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 141.490 $\pm$ 0.000 χ^2 /NDF: 3251361999.8/33

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

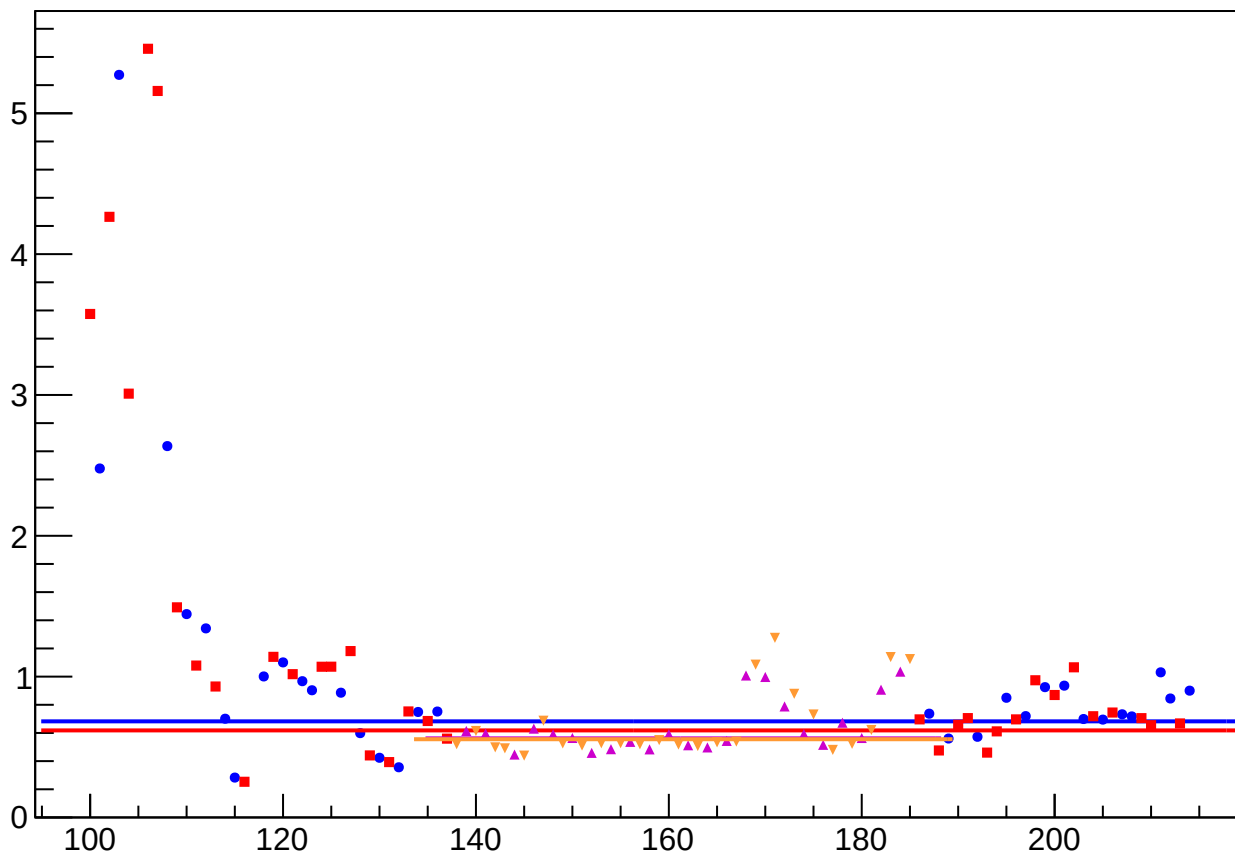
Right: 143.163 $\pm$ 0.000 χ^2 /NDF: 4804998275.8/64

In: 147.954 $\pm$ 0.000 χ^2 /NDF: 2073990926.8/53

Out: 146.718 $\pm$ 0.000 χ^2 /NDF: 4772185757.0/58

All: 147.298 $\pm$ 0.000 χ^2 /NDF: 6904706702.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.682 ± 0.000 χ^2/NDF : 4307220.5/30

Left Out: 0.555 ± 0.000 χ^2/NDF : 1773688.1/24

Right Out: 0.618 ± 0.000 χ^2/NDF : 5581444.6/33

Left In: 0.562 ± 0.000 χ^2/NDF : 1305573.4/22

Left: 0.559 ± 0.000 χ^2/NDF : 3081194.0/47

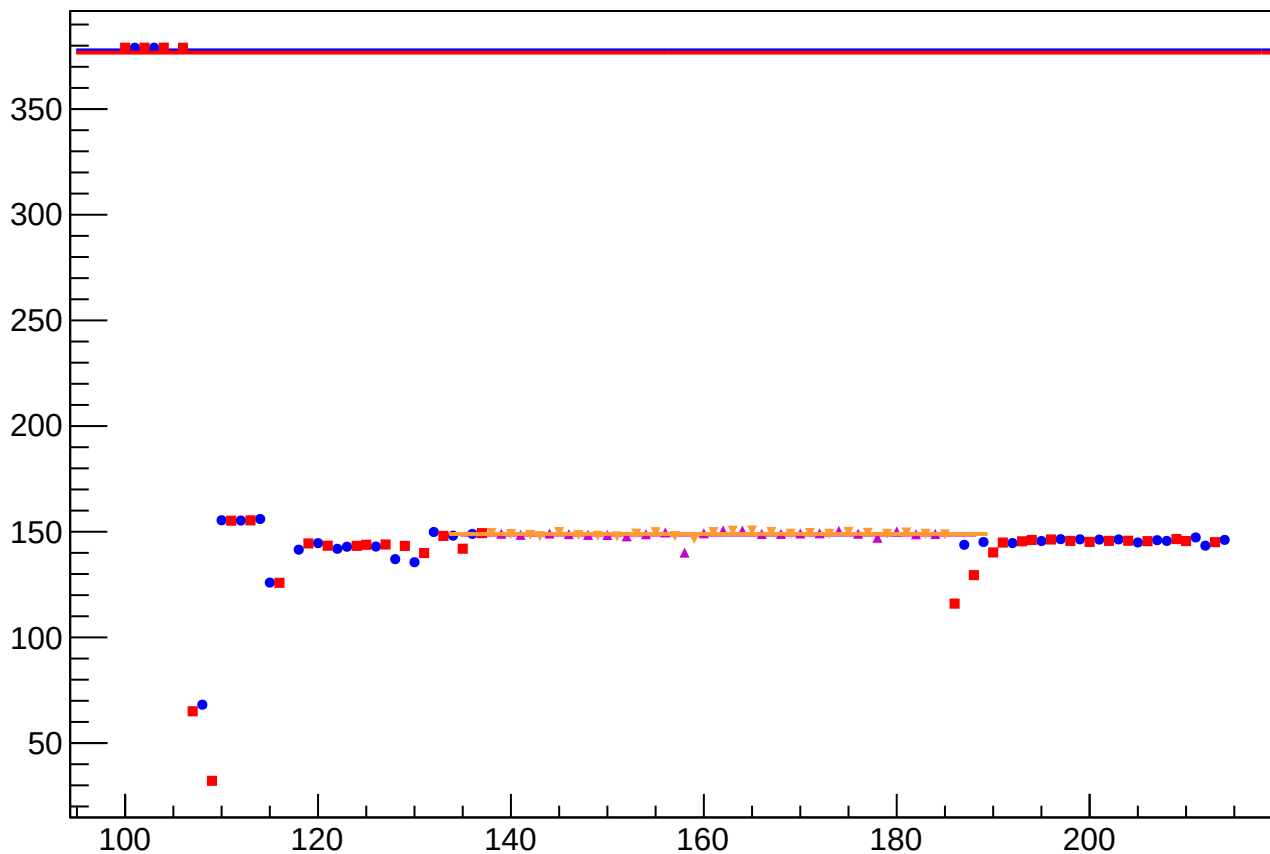
Right: 0.647 ± 0.000 χ^2/NDF : 10002647.3/64

In: 0.603 ± 0.000 χ^2/NDF : 6087452.7/53

Out: 0.579 ± 0.000 χ^2/NDF : 7505768.0/58

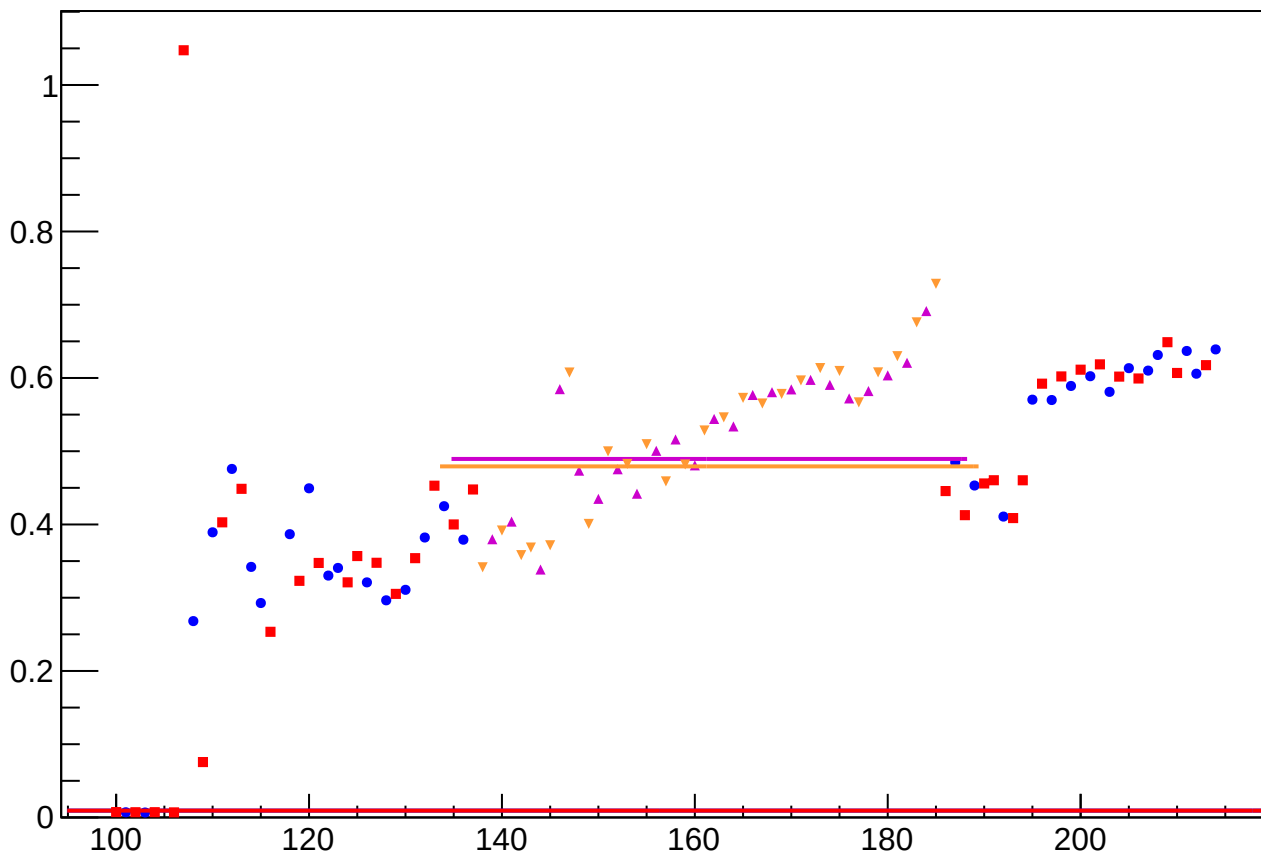
All: 0.591 ± 0.000 χ^2/NDF : 13638021.2/112

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.756+/-0.000	χ^2/NDF : 4140022543180.5/30	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.215+/-0.000	χ^2/NDF : 14389128217325.9
Right Out: 376.741+/-0.000	χ^2/NDF : 10241789201187.7/33	In: 376.588+/-0.000	χ^2/NDF : 7711361396056.1/53
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.629+/-0.000	χ^2/NDF : 14099341509029.9
		All: 376.077+/-0.000	χ^2/NDF : 218172769384.9

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 28531590.3/30

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 28685781.0/33

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2600075.4/47

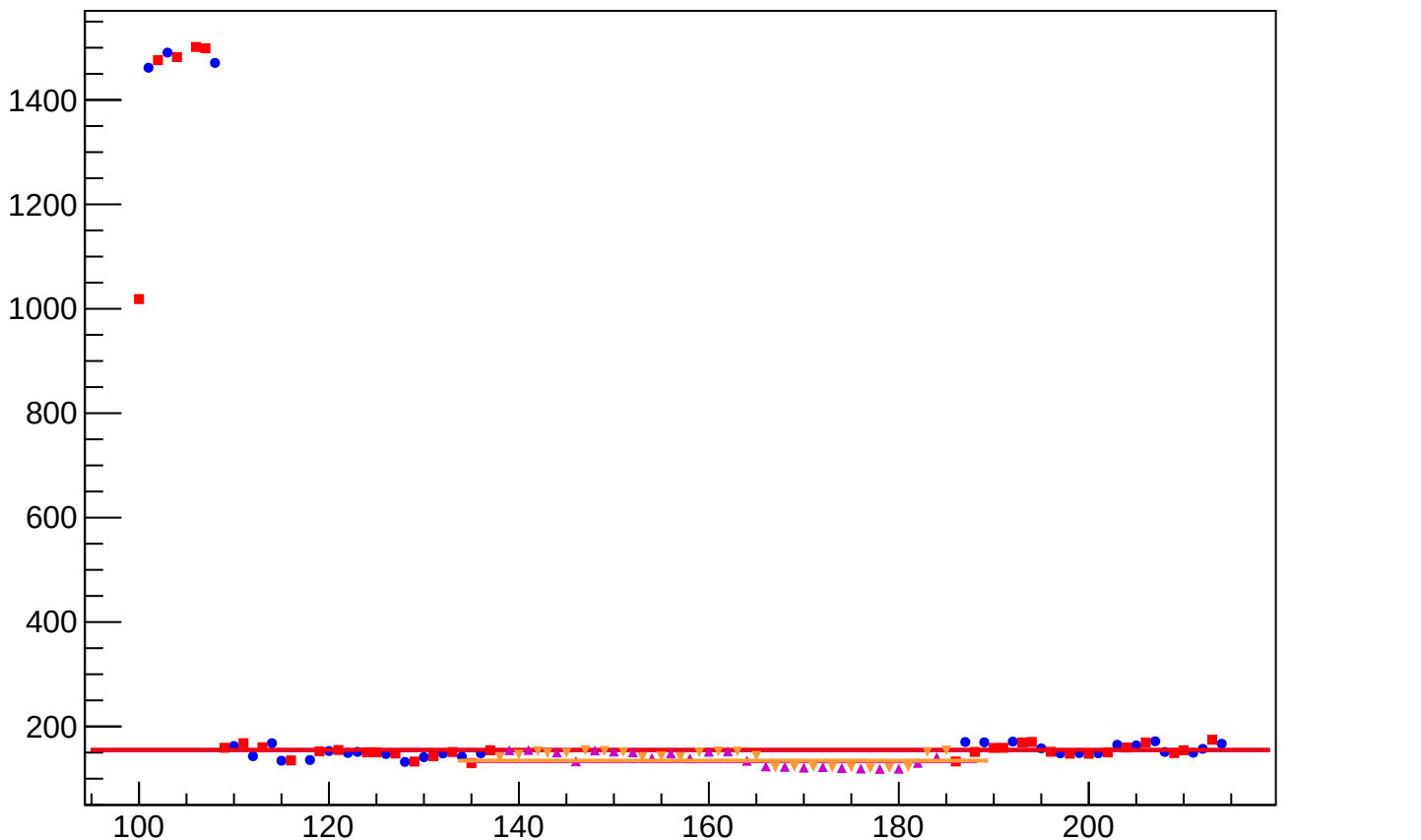
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 57217389.0/64

In: 0.012 $\pm$ 0.000 χ^2 /NDF:60976199.3/53

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:63039910.6/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 124016611.3/112

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.920+/-0.000 χ^2/NDF : 26055166418.9/30

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 155.075+/-0.000 χ^2/NDF : 35199601014.2/33

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

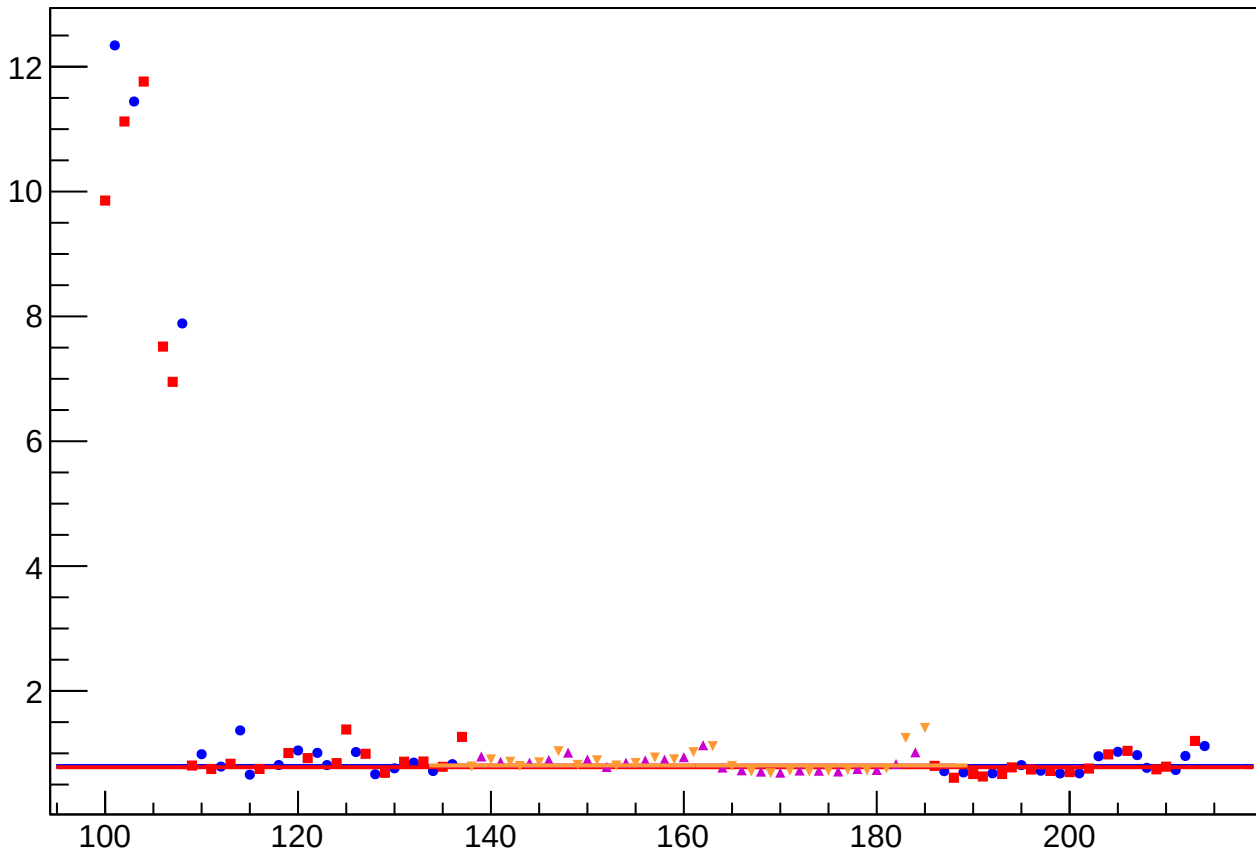
Right: 155.001+/-0.000 χ^2/NDF : 61255009575.9/64

In: 143.248+/-0.000 χ^2/NDF : 35223312879.4/53

Out: 144.173+/-0.000 χ^2/NDF : 44257232076.6/58

All: 143.724+/-0.000 χ^2/NDF : 79499034946.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.798 $\pm$ 0.000 χ^2 /NDF: 3156562.9/30

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF: 690578.5/24

Right Out: 0.778 $\pm$ 0.000 χ^2 /NDF: 3445620.8/33

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF: 480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

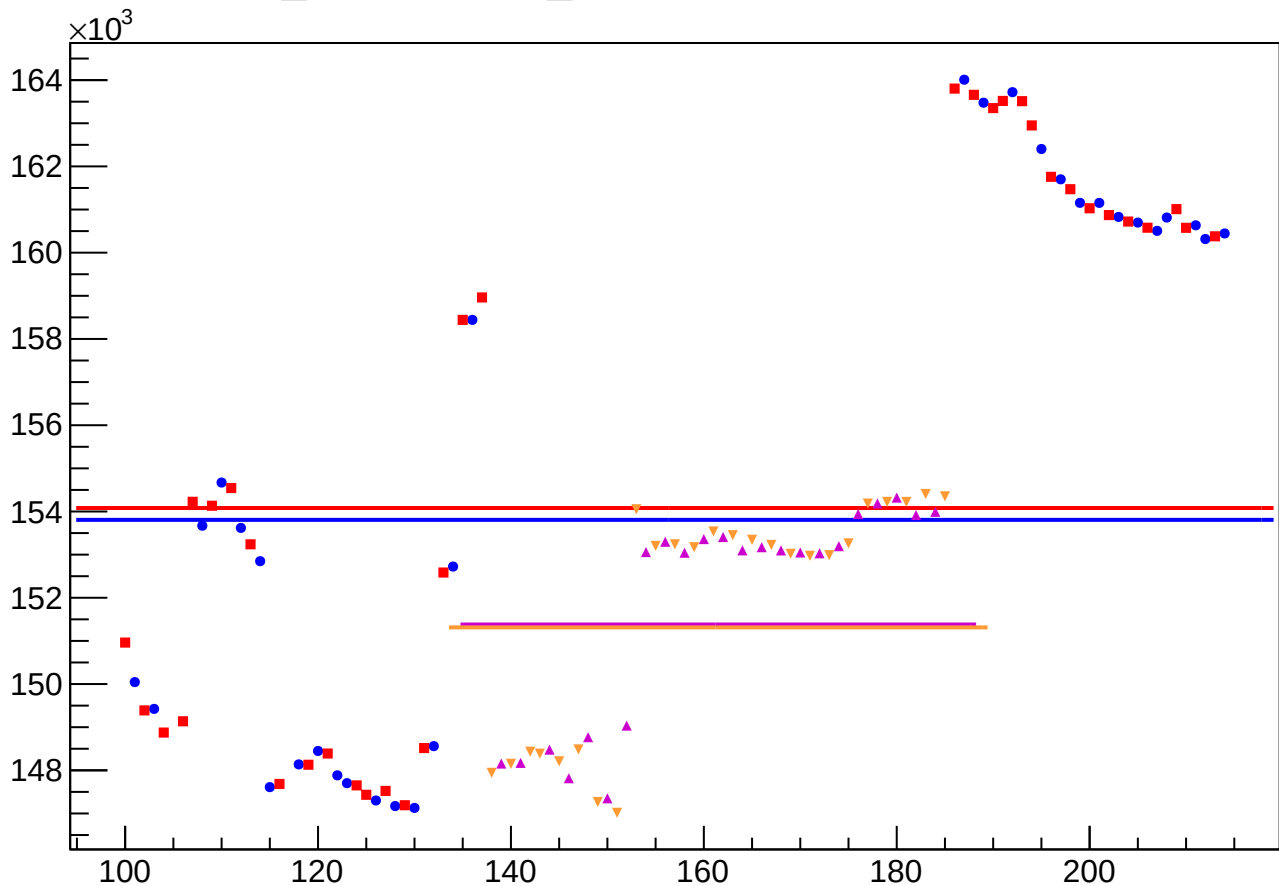
Right: 0.787 $\pm$ 0.000 χ^2 /NDF: 6609942.6/64

In: 0.801 $\pm$ 0.000 χ^2 /NDF: 3638162.6/53

Out: 0.793 $\pm$ 0.000 χ^2 /NDF: 4153905.3/58

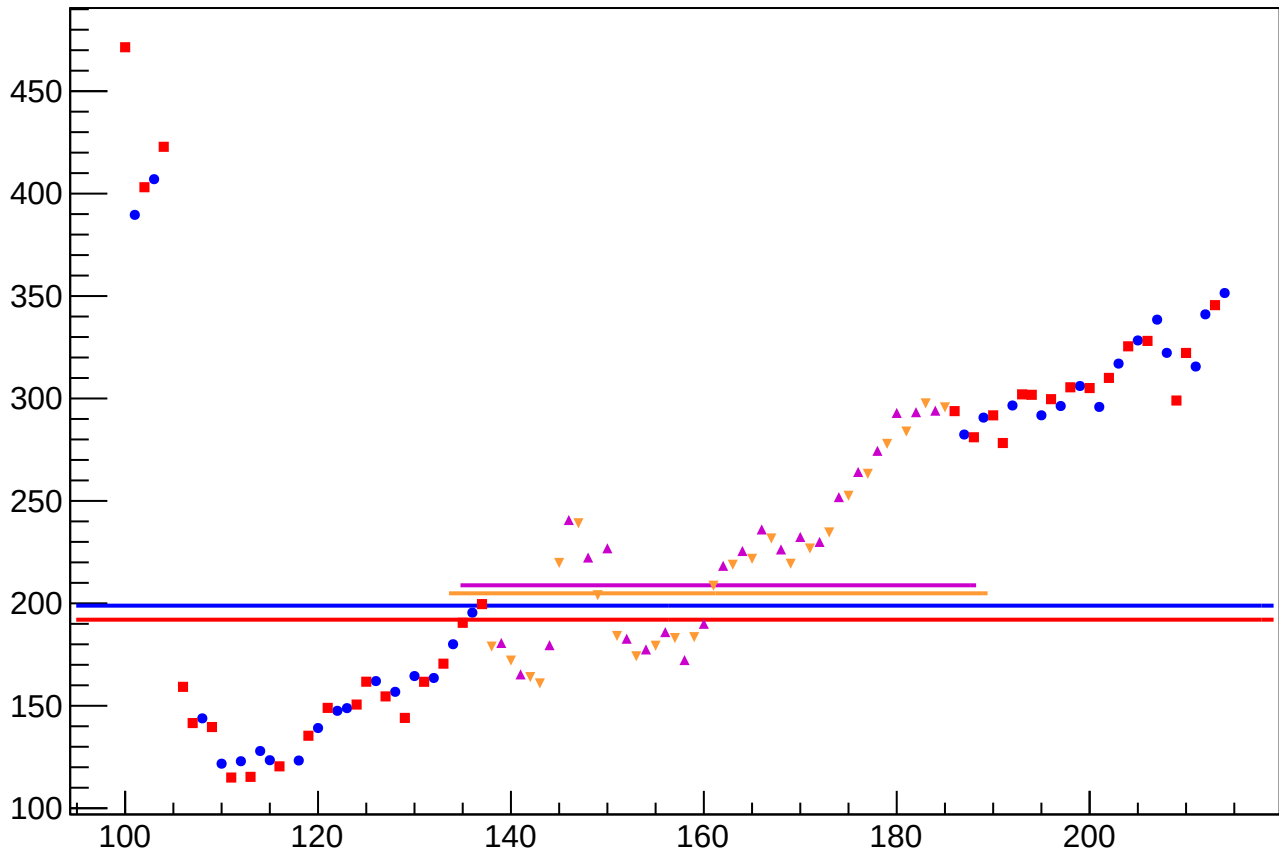
All: 0.797 $\pm$ 0.000 χ^2 /NDF: 7795245.3/112

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153805.963 $\pm$ 0.053	χ^2/NDF : 11918368031.0/30	Left: 151345.082 $\pm$ 0.035	χ^2/NDF : 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2/NDF : 3153768134.8/24	Right: 153949.984 $\pm$ 0.037	χ^2/NDF : 24472191304.7
Right Out: 154081.066 $\pm$ 0.051	χ^2/NDF : 12539831057.2/33	In: 152546.096 $\pm$ 0.037	χ^2/NDF : 15361534238.8/5
Left In: 151380.236 $\pm$ 0.051	χ^2/NDF : 2363895785.3/22	Out: 152639.249 $\pm$ 0.035	χ^2/NDF : 17242023330.3
		All: 152594.938 $\pm$ 0.025	χ^2/NDF : 326069006

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 198.877 $\pm$ 0.038 χ^2 /NDF: 4906760.6/30

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 192.028 $\pm$ 0.036 χ^2 /NDF: 5128143.7/33

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF: 1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2 /NDF: 2064453.9/47

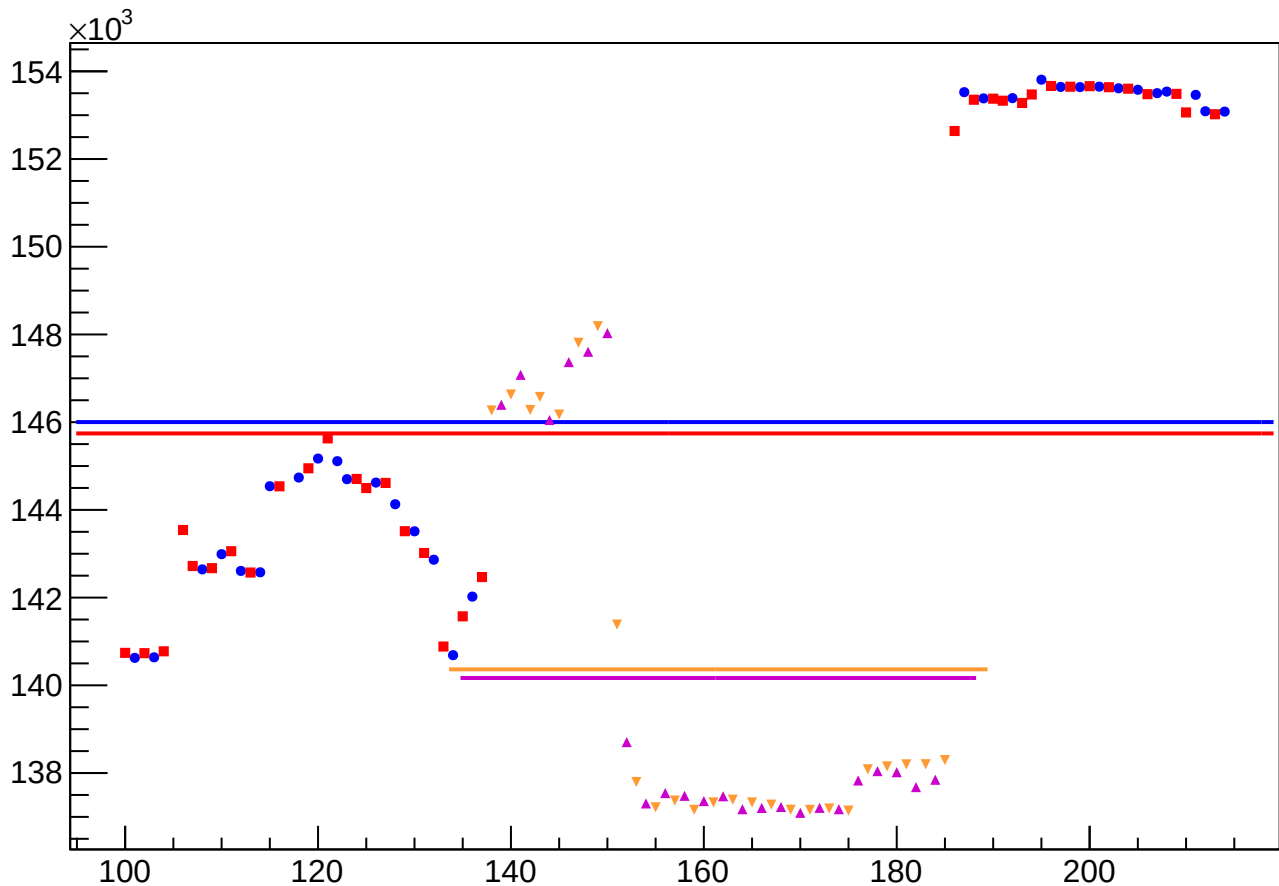
Right: 195.292 $\pm$ 0.026 χ^2 /NDF: 10052246.3/64

In: 204.037 $\pm$ 0.026 χ^2 /NDF: 5944912.0/53

Out: 198.733 $\pm$ 0.025 χ^2 /NDF: 6251496.2/58

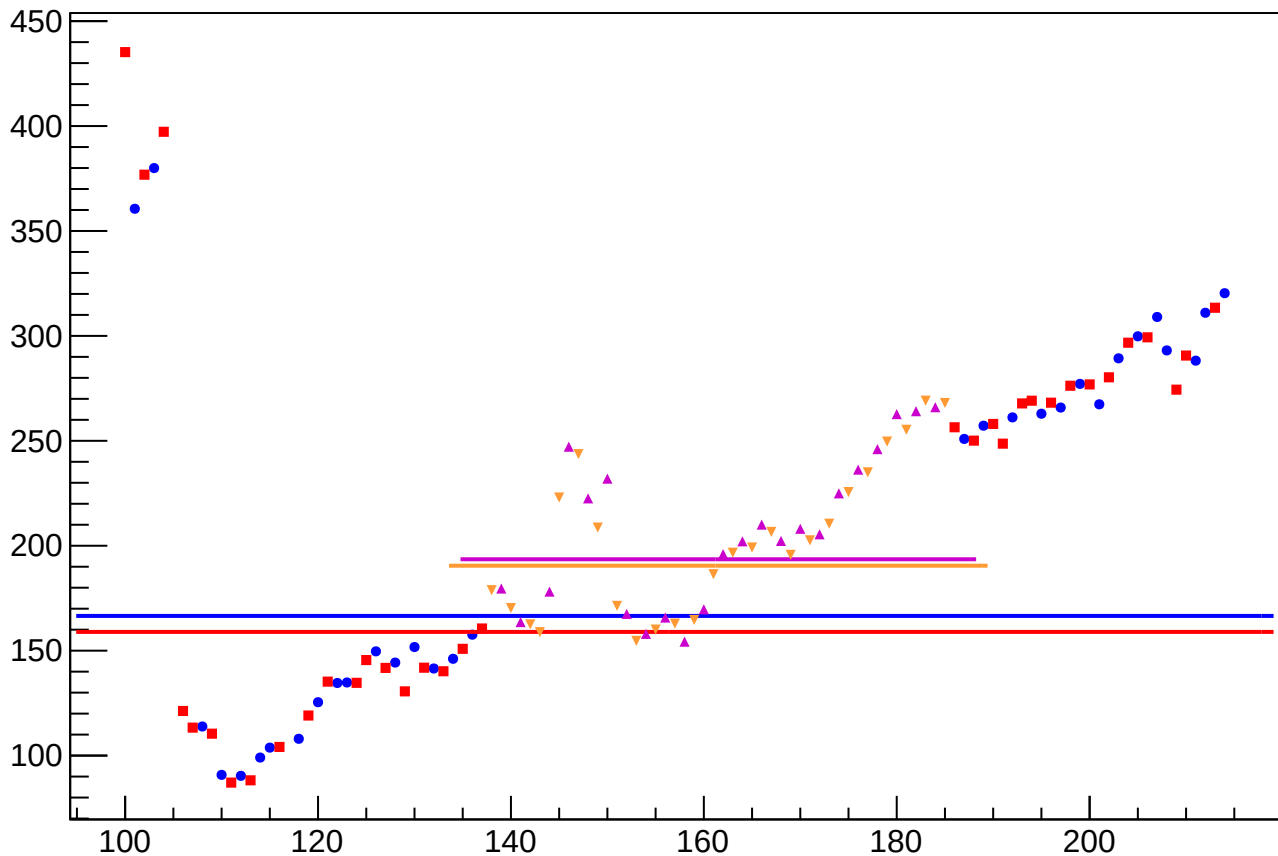
All: 201.256 $\pm$ 0.018 χ^2 /NDF: 12218084.0/11

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146002.341 $\pm$ 0.045	χ^2 /NDF: 10032236766.4/30	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 145864.889 $\pm$ 0.031	χ^2 /NDF: 20993863427.8
Right Out: 145743.443 $\pm$ 0.043	χ^2 /NDF: 10944410724.2/33	In: 143209.252 $\pm$ 0.033	χ^2 /NDF: 25945782785.4/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143205.643 $\pm$ 0.031	χ^2 /NDF: 27095955160.7/1
		All: 143207.348 $\pm$ 0.023	χ^2 /NDF: 530417443

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 166.559 $\pm$ 0.032 χ^2/NDF : 6015671.6/30

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF : 950233.2/24

Right Out: 158.936 $\pm$ 0.030 χ^2/NDF : 6291419.7/33

Left In: 193.558 $\pm$ 0.034 χ^2/NDF : 963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2/NDF : 1918302.4/47

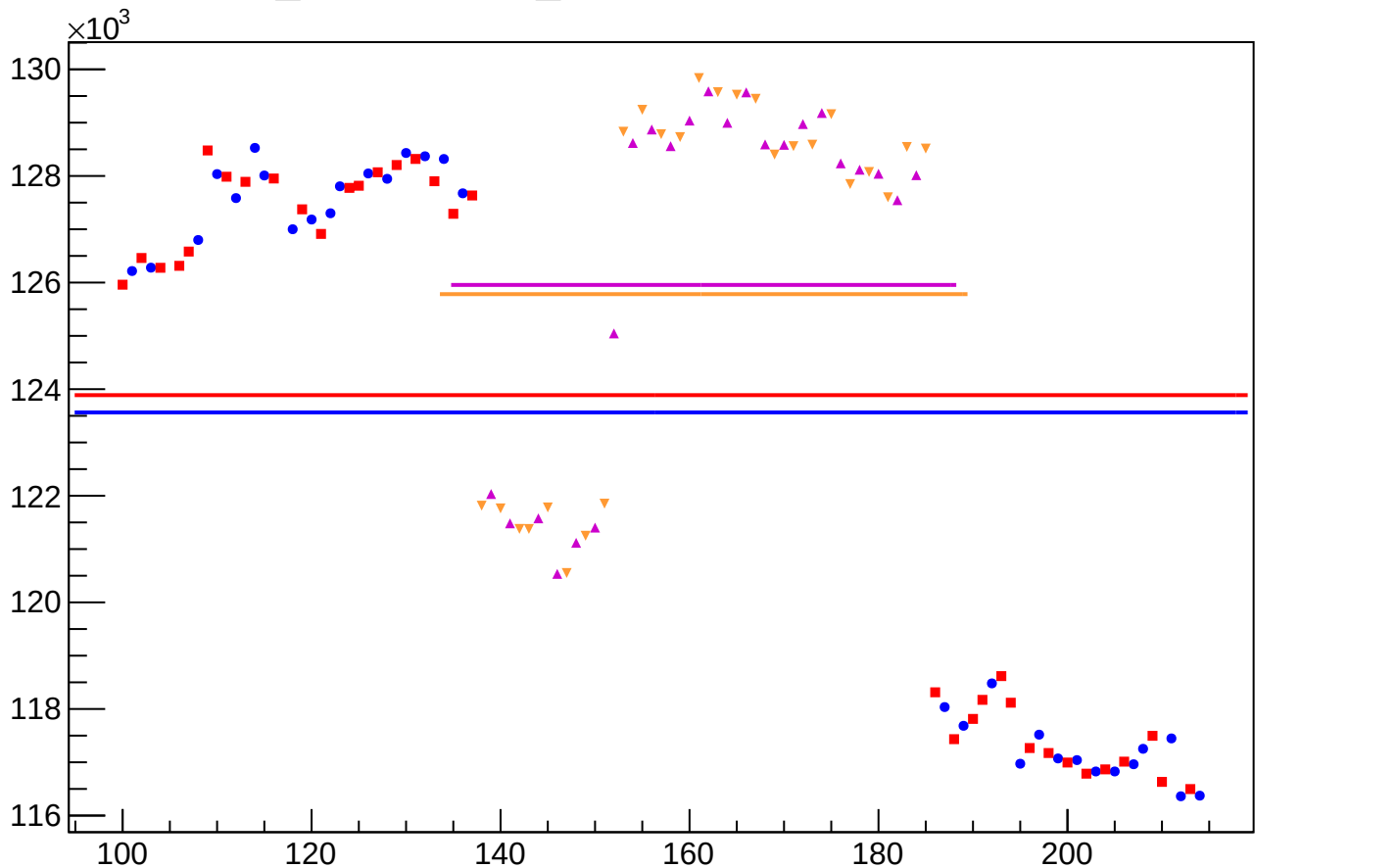
Right: 162.512 $\pm$ 0.022 χ^2/NDF : 12336945.7/64

In: 179.482 $\pm$ 0.023 χ^2/NDF : 7316942.7/53

Out: 173.821 $\pm$ 0.022 χ^2/NDF : 7755947.8/58

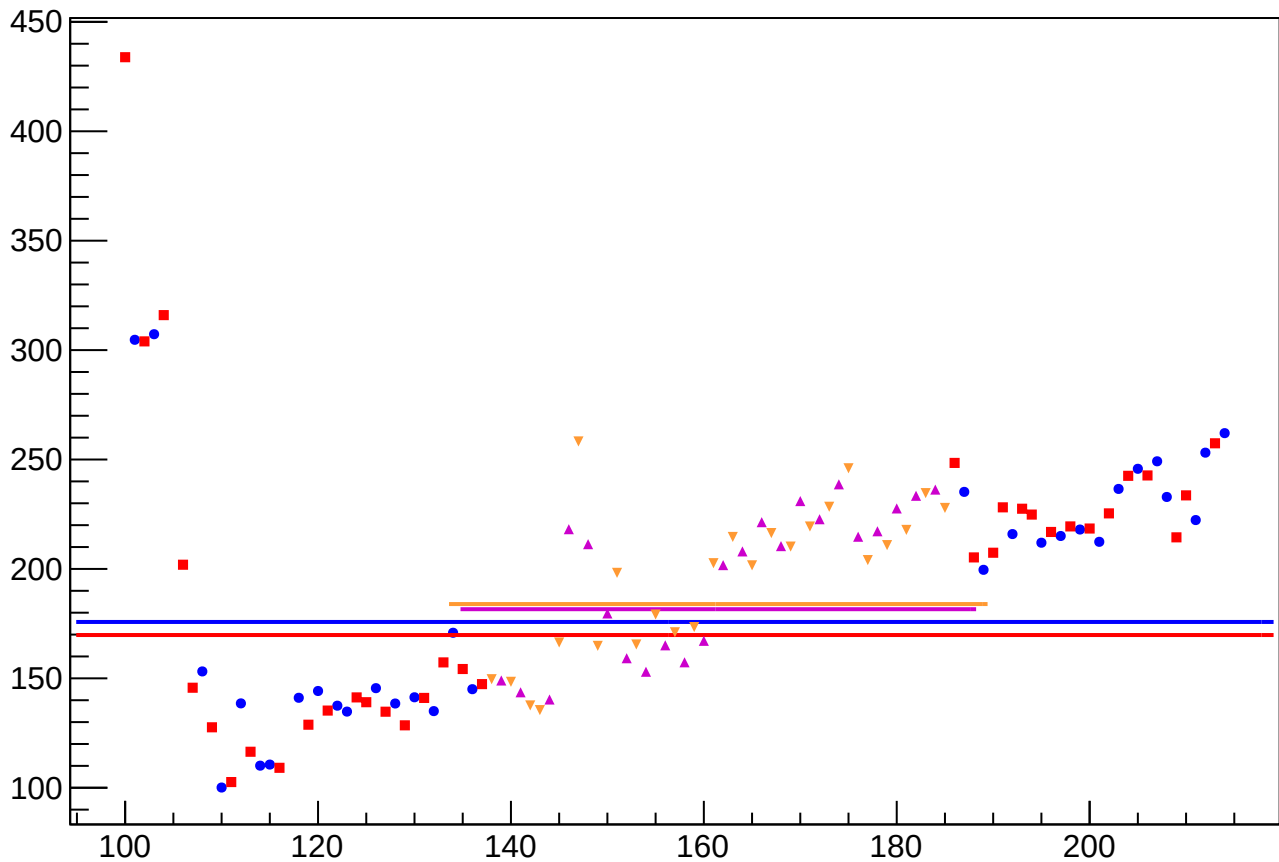
All: 176.495 $\pm$ 0.016 χ^2/NDF : 15104275.3/11

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123563.636 $\pm$ 0.045	χ^2/NDF : 13006883344.3/30	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 123733.028 $\pm$ 0.031	χ^2/NDF : 26575316227.6/24
Right Out: 123887.901 $\pm$ 0.043	χ^2/NDF : 13541637009.1/33	In: 124772.113 $\pm$ 0.032	χ^2/NDF : 20221145120.7/5
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 124819.883 $\pm$ 0.031	χ^2/NDF : 21213674659.4/24
		All: 124796.749 $\pm$ 0.022	χ^2/NDF : 414359803.1/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 175.767 $\pm$ 0.032 χ^2 /NDF: 2607801.4/30

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 169.794 $\pm$ 0.031 χ^2 /NDF: 2981884.4/33

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

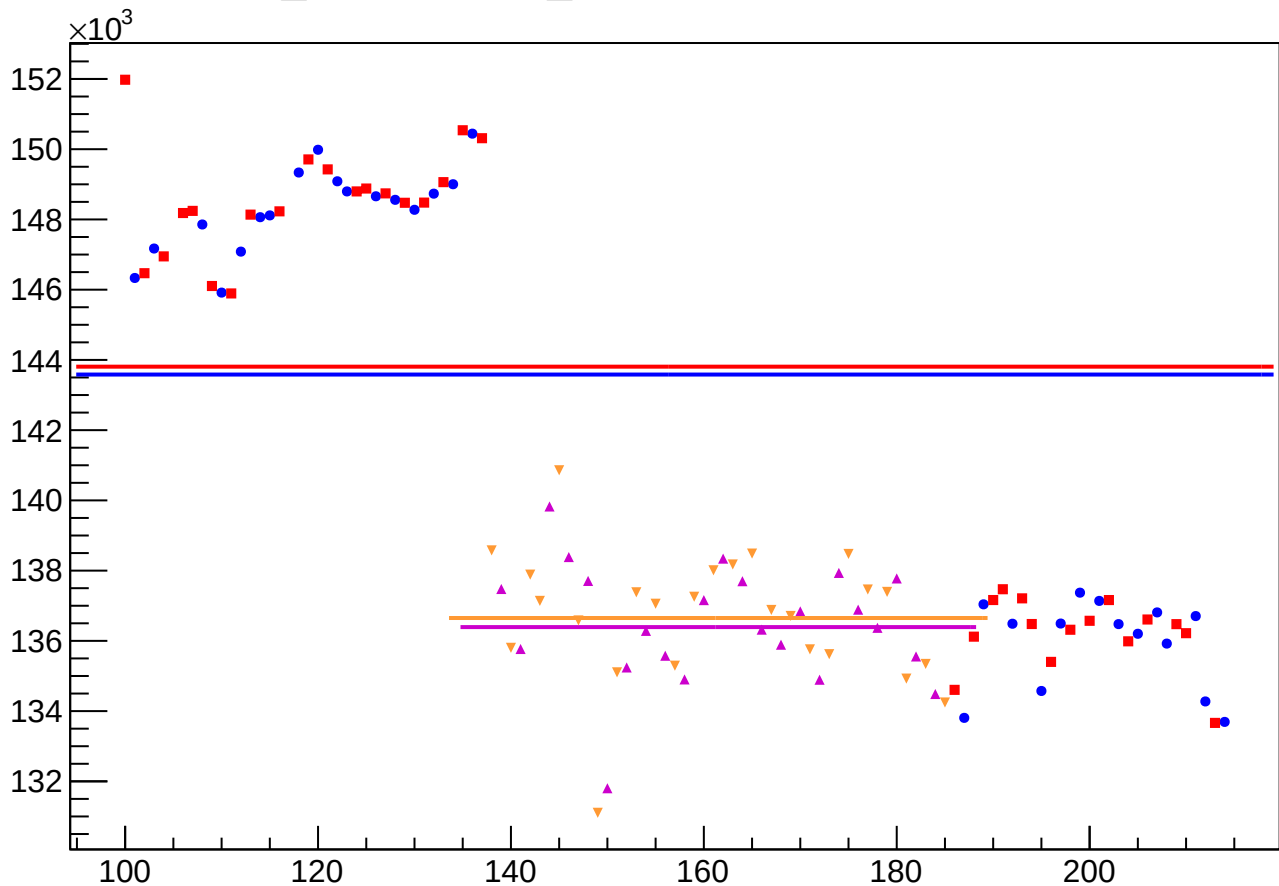
Right: 172.647 $\pm$ 0.022 χ^2 /NDF: 5607872.3/64

In: 178.712 $\pm$ 0.023 χ^2 /NDF: 3728071.0/53

Out: 176.755 $\pm$ 0.022 χ^2 /NDF: 4210213.0/58

All: 177.703 $\pm$ 0.016 χ^2 /NDF: 7942179.1/112

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143583.311 $\pm$ 0.064

χ^2 /NDF: 9429693435.7/30

Left: 136524.219 $\pm$ 0.046

χ^2 /NDF: 1640486942.5/4

Right: 143701.338 $\pm$ 0.044

χ^2 /NDF: 19120165700.0

Left Out: 136650.935 $\pm$ 0.065

χ^2 /NDF: 930649595.5/24

Right Out: 143807.810 $\pm$ 0.061

χ^2 /NDF: 9683974740.2/33

In: 140104.477 $\pm$ 0.046

χ^2 /NDF: 16266262108.7/5

Out: 140456.110 $\pm$ 0.044

χ^2 /NDF: 17135194037.9

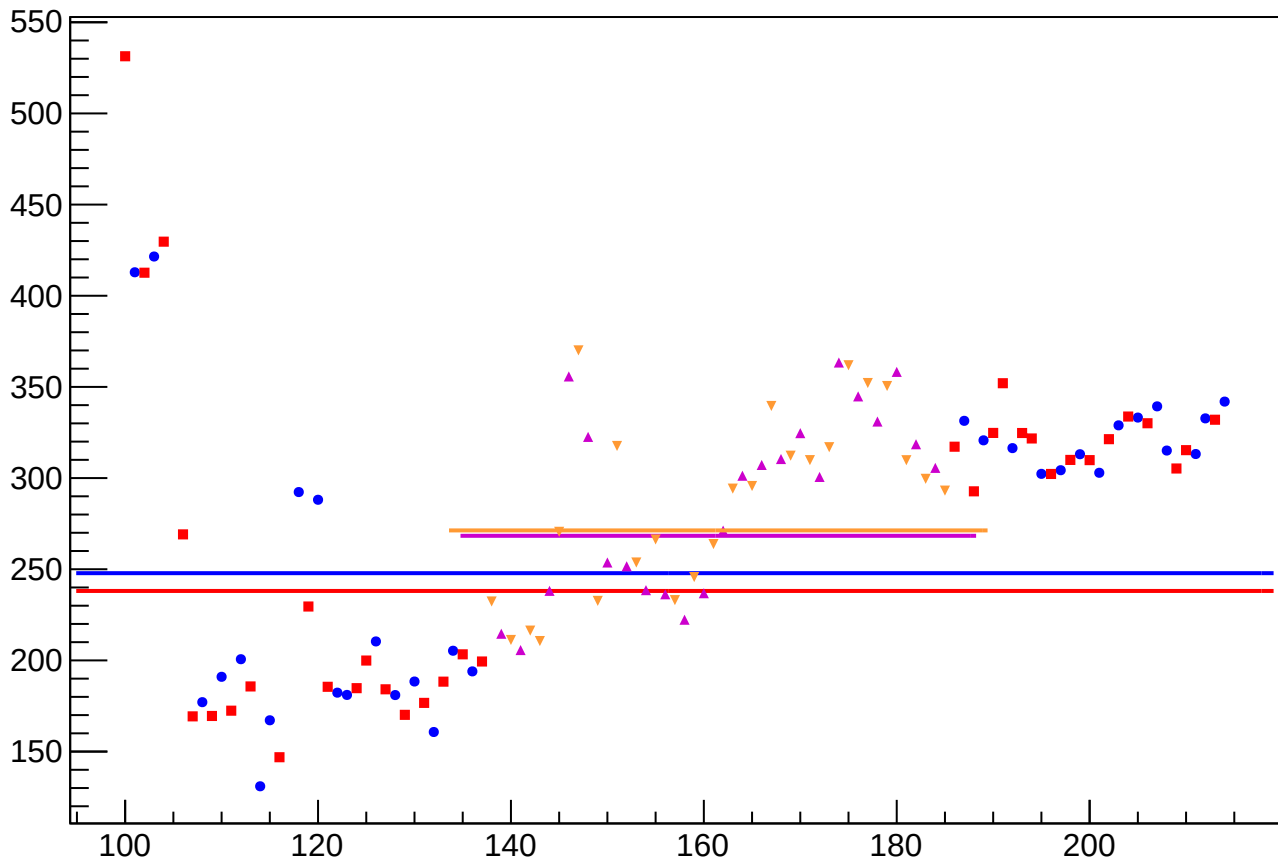
Left In: 136392.188 $\pm$ 0.066

χ^2 /NDF: 701986841.4/22

All: 140286.755 $\pm$ 0.032

χ^2 /NDF: 334319023

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 247.842 $\pm$ 0.045 χ^2 /NDF: 2629892.9/30

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 238.091 $\pm$ 0.043 χ^2 /NDF: 2840015.0/33

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

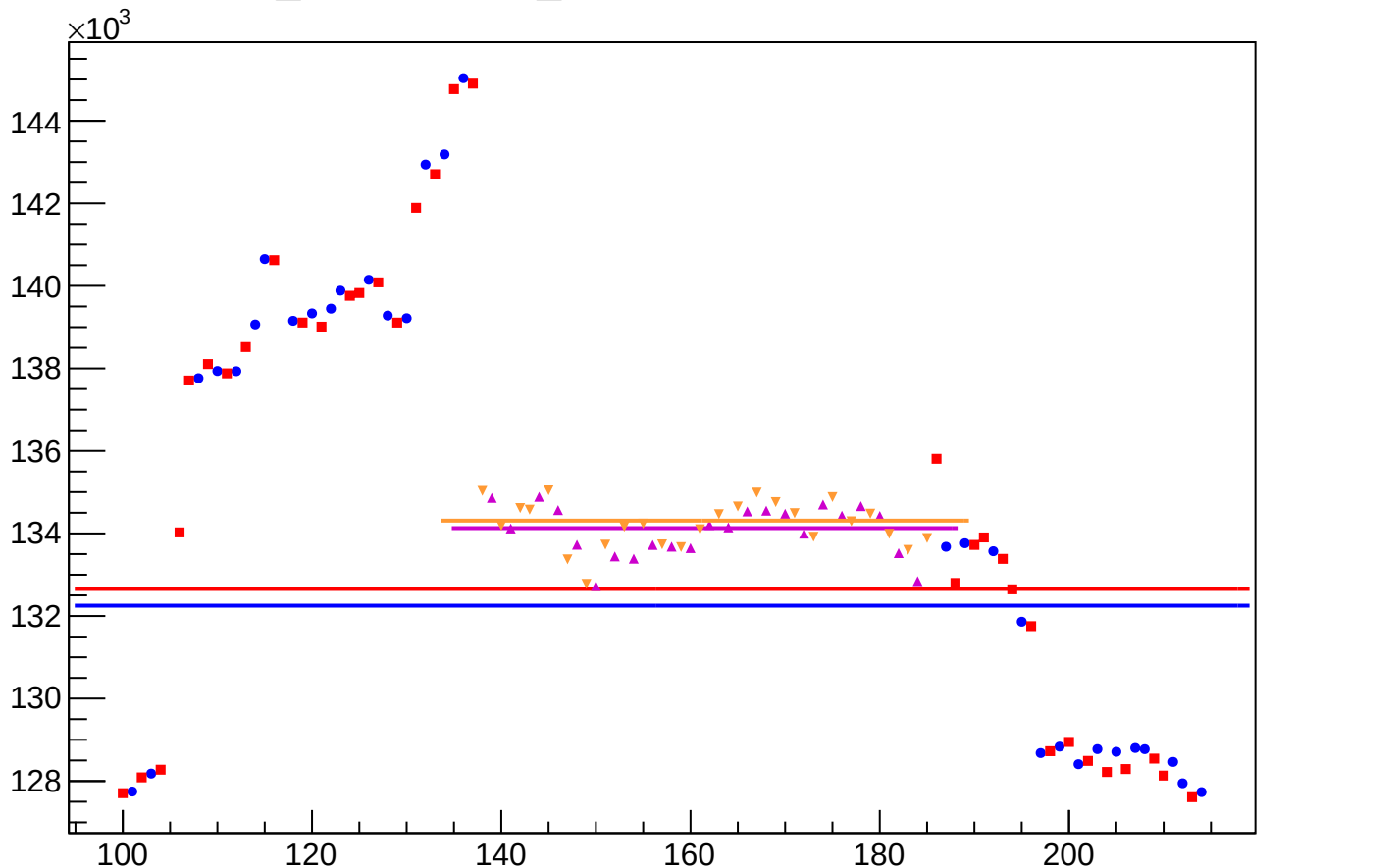
Right: 242.715 $\pm$ 0.031 χ^2 /NDF: 5494427.1/64

In: 257.760 $\pm$ 0.032 χ^2 /NDF:3806977.1/53

Out: 253.641 $\pm$ 0.031 χ^2 /NDF:4185214.7/58

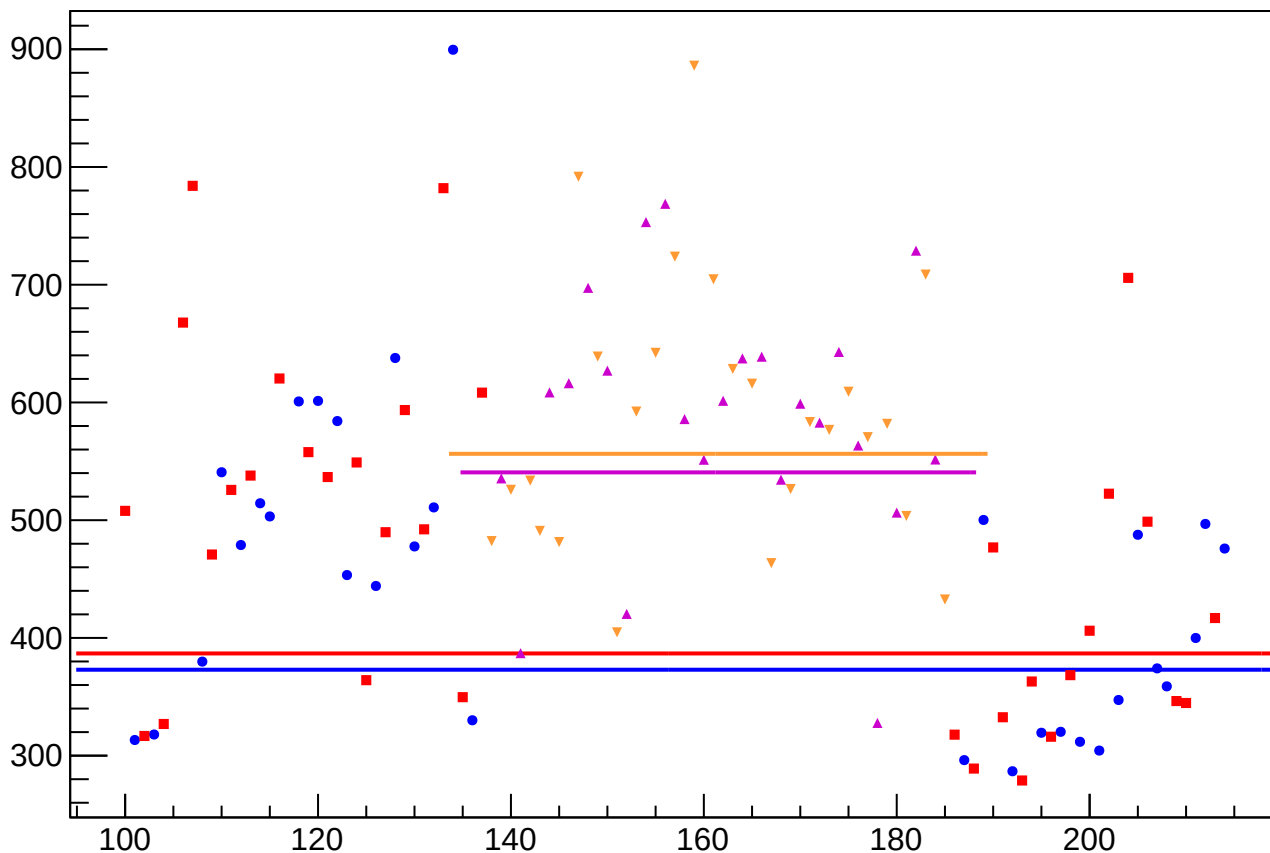
All: 255.625 $\pm$ 0.023 χ^2 /NDF: 8000548.0/112

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132250.539 $\pm$ 0.103	χ^2/NDF : 2738307294.8/30	Left: 134221.438 $\pm$ 0.099	χ^2/NDF : 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2/NDF : 15518632.9/24	Right: 132446.228 $\pm$ 0.074	χ^2/NDF : 4684586245.3/5
Right Out: 132655.367 $\pm$ 0.107	χ^2/NDF : 1938858065.9/33	In: 132900.574 $\pm$ 0.084	χ^2/NDF : 2868172471.1/53
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 133272.244 $\pm$ 0.085	χ^2/NDF : 2043854339.3/5
		All: 133084.087 $\pm$ 0.059	χ^2/NDF : 492179908.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 372.997 ± 0.073 $\chi^2/\text{NDF}: 1484764.9/30$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 386.812 ± 0.076 $\chi^2/\text{NDF}: 1940835.4/33$

Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

Left: 548.687 ± 0.070 $\chi^2/\text{NDF}: 2423723.9/47$

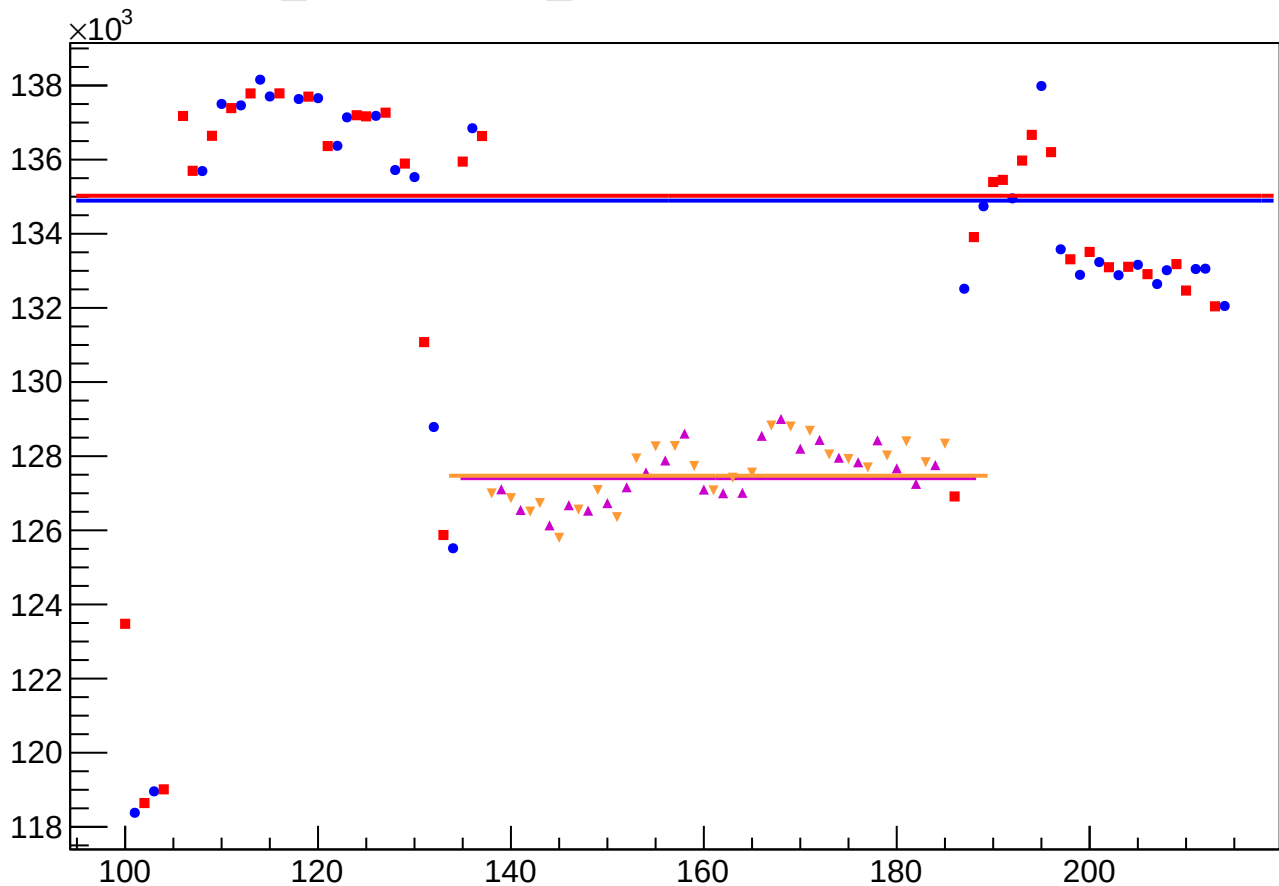
Right: 379.675 ± 0.053 $\chi^2/\text{NDF}: 3442884.5/64$

In: 431.023 ± 0.059 $\chi^2/\text{NDF}: 4715887.2/53$

Out: 450.021 ± 0.060 $\chi^2/\text{NDF}: 4821807.0/58$

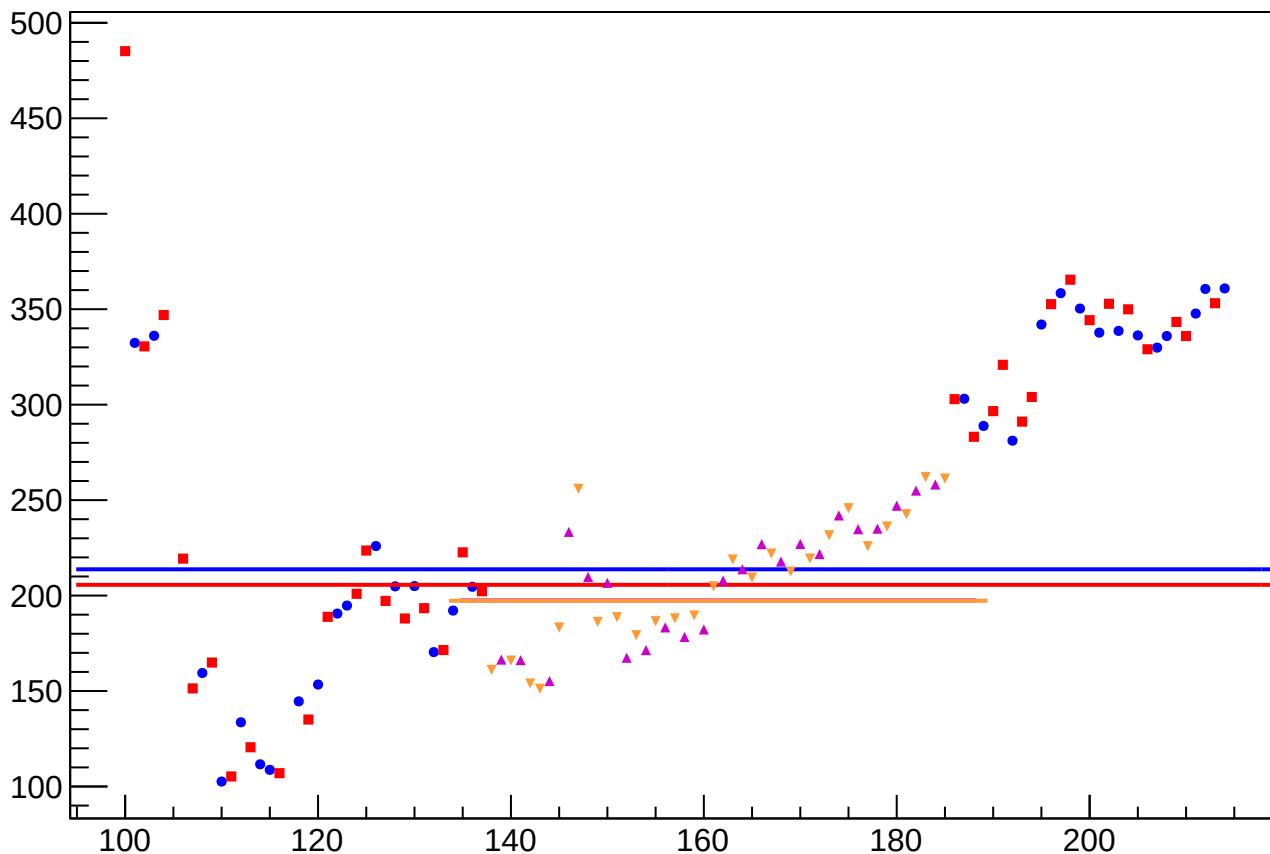
All: 440.404 ± 0.042 $\chi^2/\text{NDF}: 9588757.6/112$

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134894.322 $\pm$ 0.057	χ^2 /NDF: 4956294630.6/30	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 134963.297 $\pm$ 0.040	χ^2 /NDF: 10290802564.1
Right Out: 135025.730 $\pm$ 0.055	χ^2 /NDF: 5331757099.7/33	In: 130515.406 $\pm$ 0.037	χ^2 /NDF: 15176861224.6/5
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130675.157 $\pm$ 0.036	χ^2 /NDF: 16653605015.5
		All: 130598.418 $\pm$ 0.026	χ^2 /NDF: 318401606

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 213.758 $\pm$ 0.041 χ^2 /NDF: 4906616.1/30

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 205.632 $\pm$ 0.039 χ^2 /NDF: 5281832.3/33

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

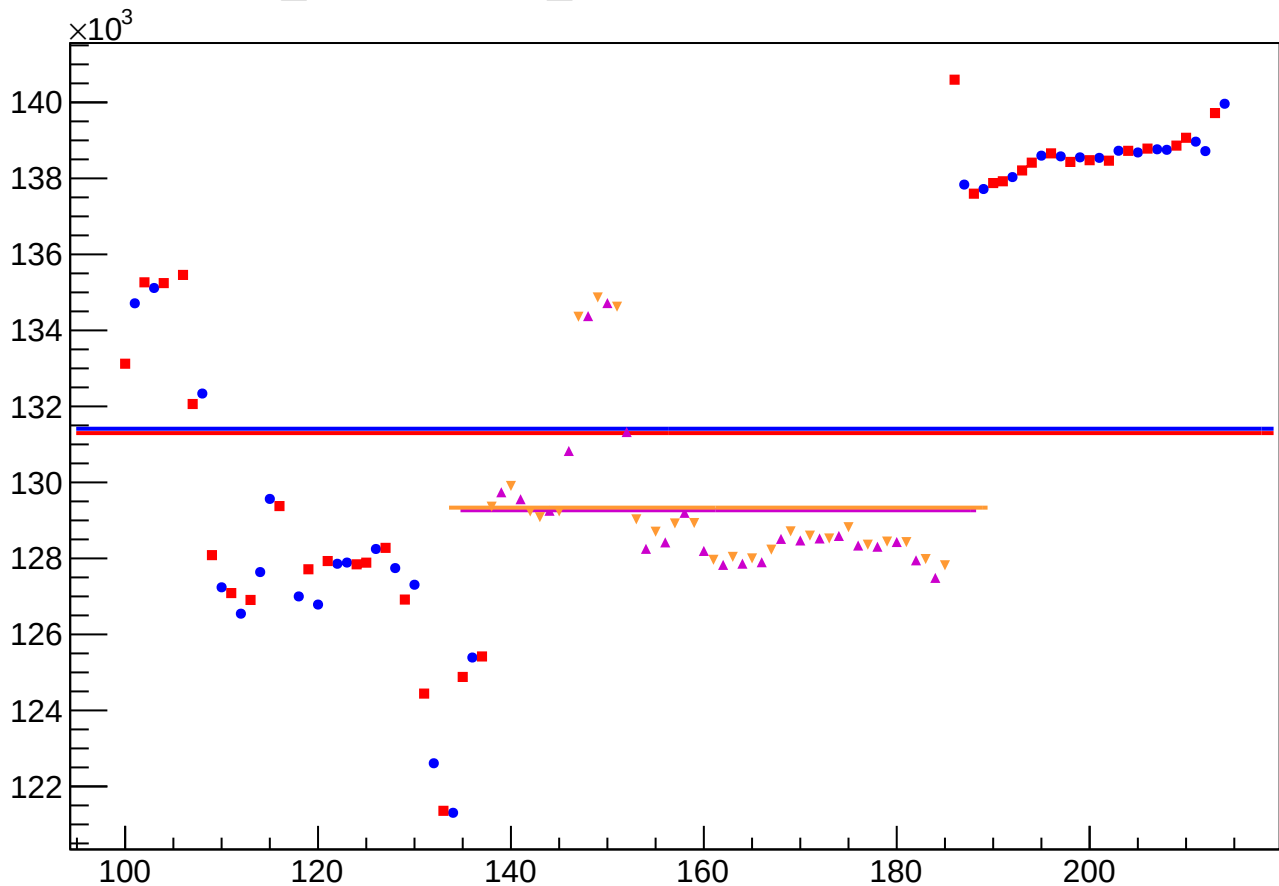
Right: 209.493 $\pm$ 0.028 χ^2 /NDF: 10209489.8/64

In: 204.233 $\pm$ 0.026 χ^2 /NDF: 5792363.8/53

Out: 200.827 $\pm$ 0.025 χ^2 /NDF: 6160738.2/58

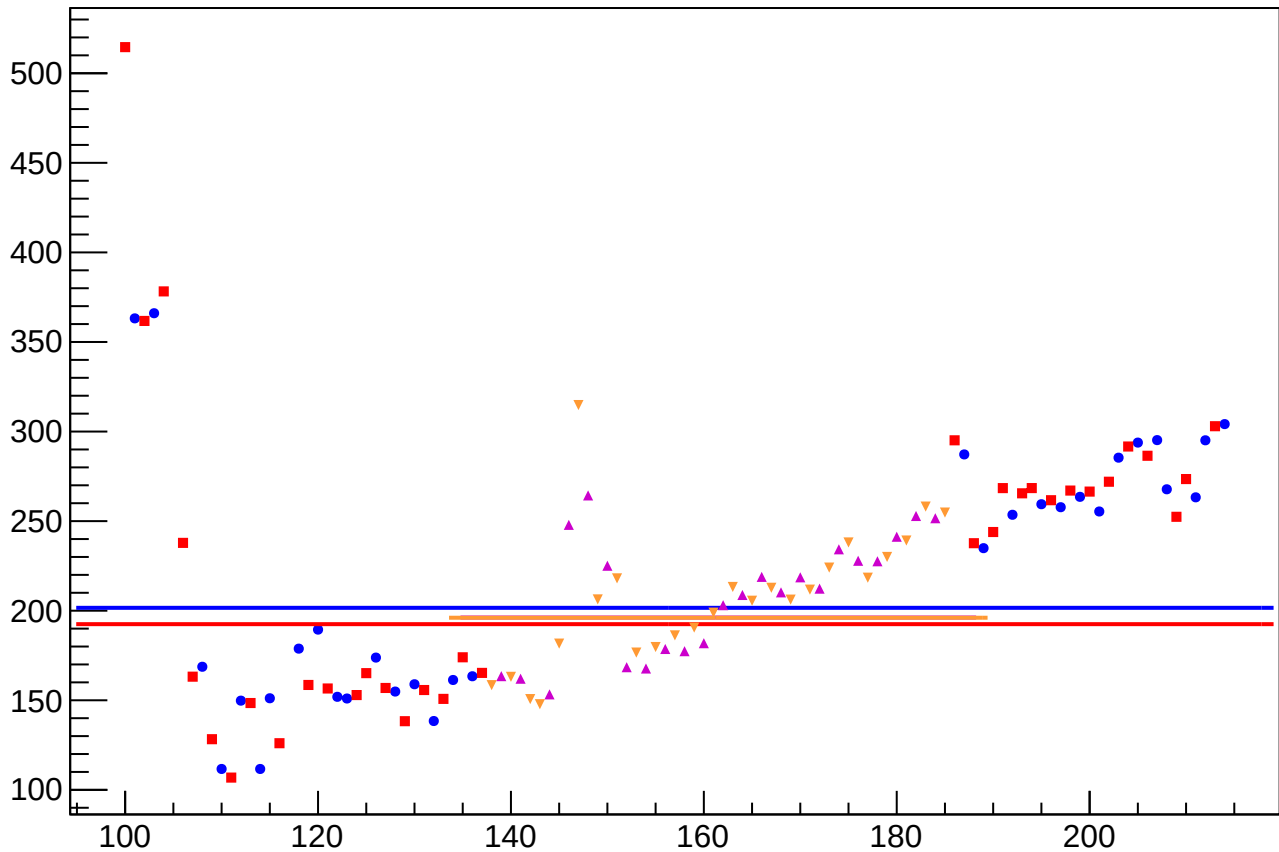
All: 202.463 $\pm$ 0.018 χ^2 /NDF: 11961917.3/11

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131412.434 $\pm$ 0.053	χ^2 /NDF: 13041039723.1/30	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 131351.829 $\pm$ 0.036	χ^2 /NDF: 26532726665.9
Right Out: 131297.428 $\pm$ 0.050	χ^2 /NDF: 13489160146.0/33	In: 130246.806 $\pm$ 0.035	χ^2 /NDF: 15161452136.1/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130255.100 $\pm$ 0.034	χ^2 /NDF: 15765819360.8
		All: 130251.123 $\pm$ 0.025	χ^2 /NDF: 309272999

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 201.612 $\pm$ 0.037 χ^2 /NDF: 3075921.4/30

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 192.490 $\pm$ 0.035 χ^2 /NDF: 3608676.5/33

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

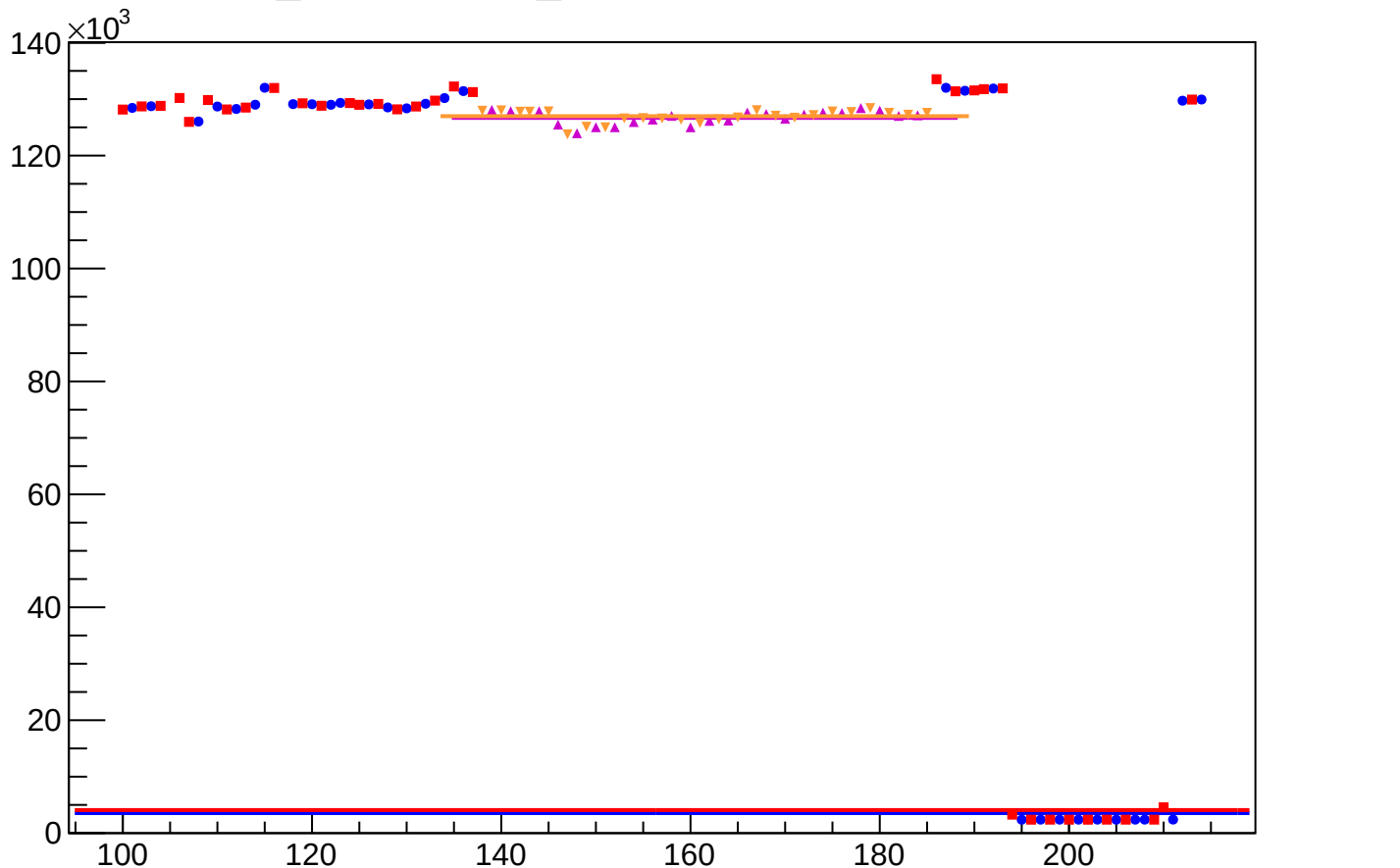
Right: 196.805 $\pm$ 0.026 χ^2 /NDF: 6716394.4/64

In: 198.664 $\pm$ 0.025 χ^2 /NDF: 3985576.2/53

Out: 194.396 $\pm$ 0.024 χ^2 /NDF: 4589912.6/58

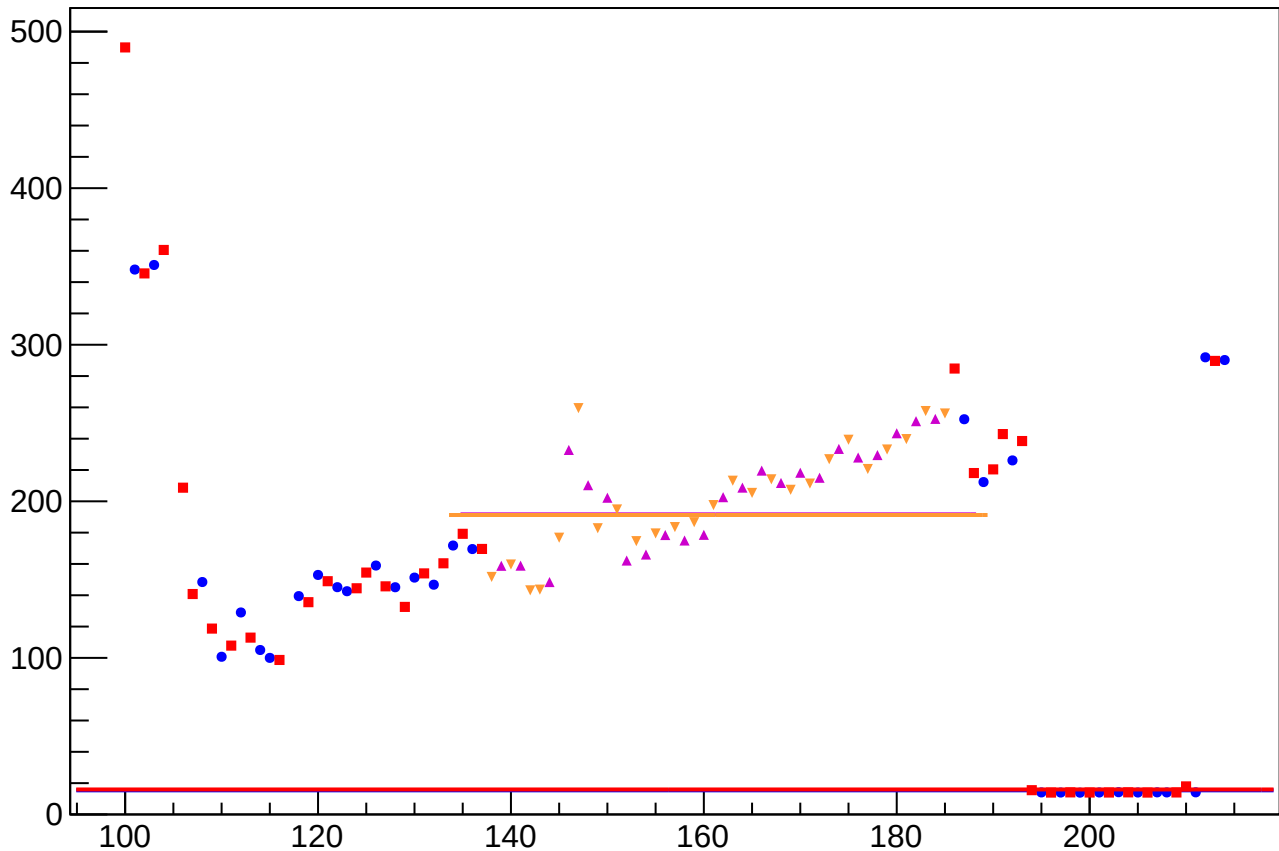
All: 196.442 $\pm$ 0.017 χ^2 /NDF: 8590543.3/112

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3550.673 $\pm$ 0.005 χ^2 /NDF: 5169445575783.6/30
 Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24
 Right Out: 4090.592 $\pm$ 0.006 χ^2 /NDF: 5949609375147.4/33
 Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22
 Left: 126836.943 $\pm$ 0.033 χ^2 /NDF: 1211882944.2/4
 Right: 3794.773 $\pm$ 0.004 χ^2 /NDF: 11123725411979
 In: 5104.242 $\pm$ 0.005 χ^2 /NDF: 11949093704802.5
 Out: 6085.633 $\pm$ 0.006 χ^2 /NDF: 13119466071386.
 All: 5548.826 $\pm$ 0.004 χ^2 /NDF: 25084219137

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.406 $\pm$ 0.004 χ^2 /NDF: 15975014.0/30

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 15.959 $\pm$ 0.004 χ^2 /NDF: 16898982.6/33

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

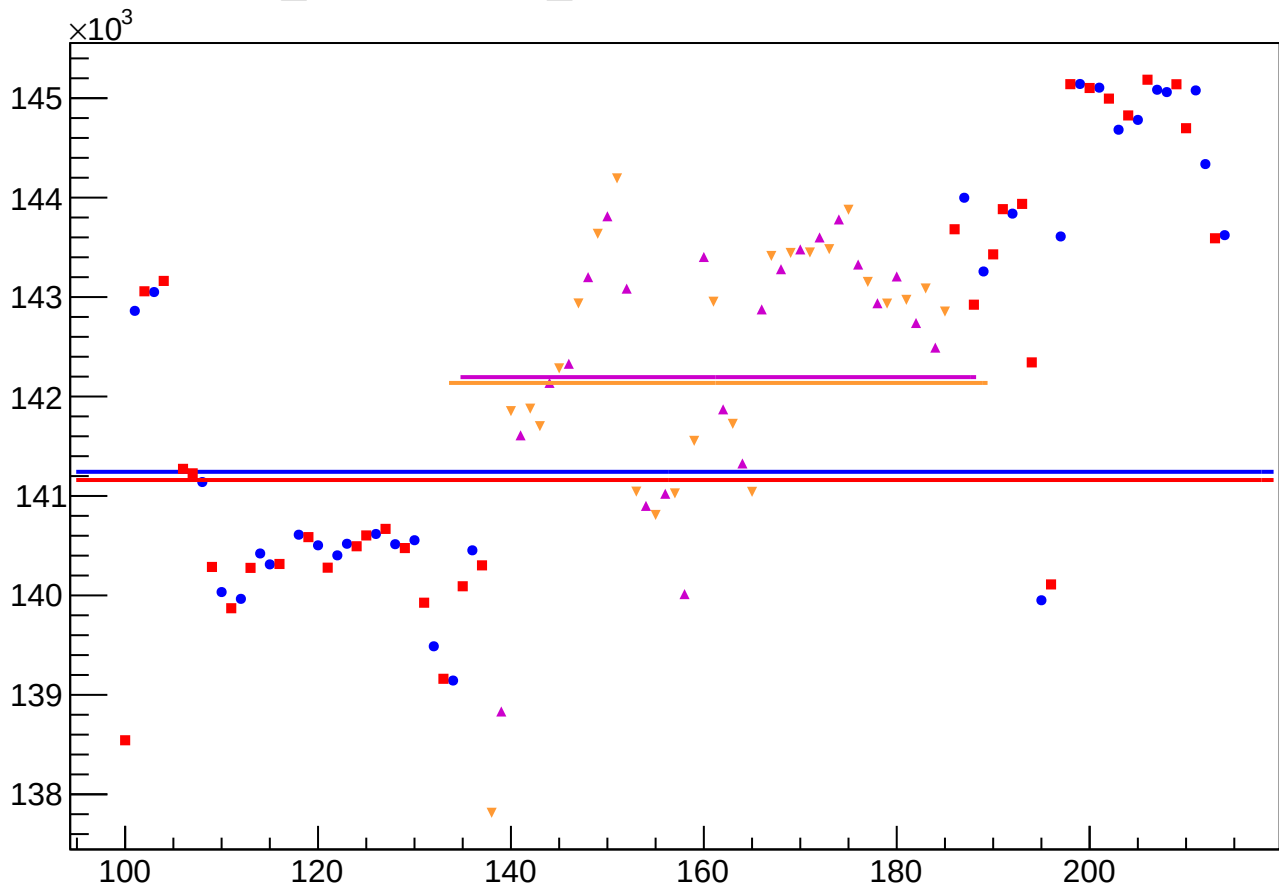
Right: 15.656 $\pm$ 0.003 χ^2 /NDF: 32883779.8/64

In: 17.630 $\pm$ 0.004 χ^2 /NDF: 44626450.0/53

Out: 18.804 $\pm$ 0.004 χ^2 /NDF: 47069426.4/58

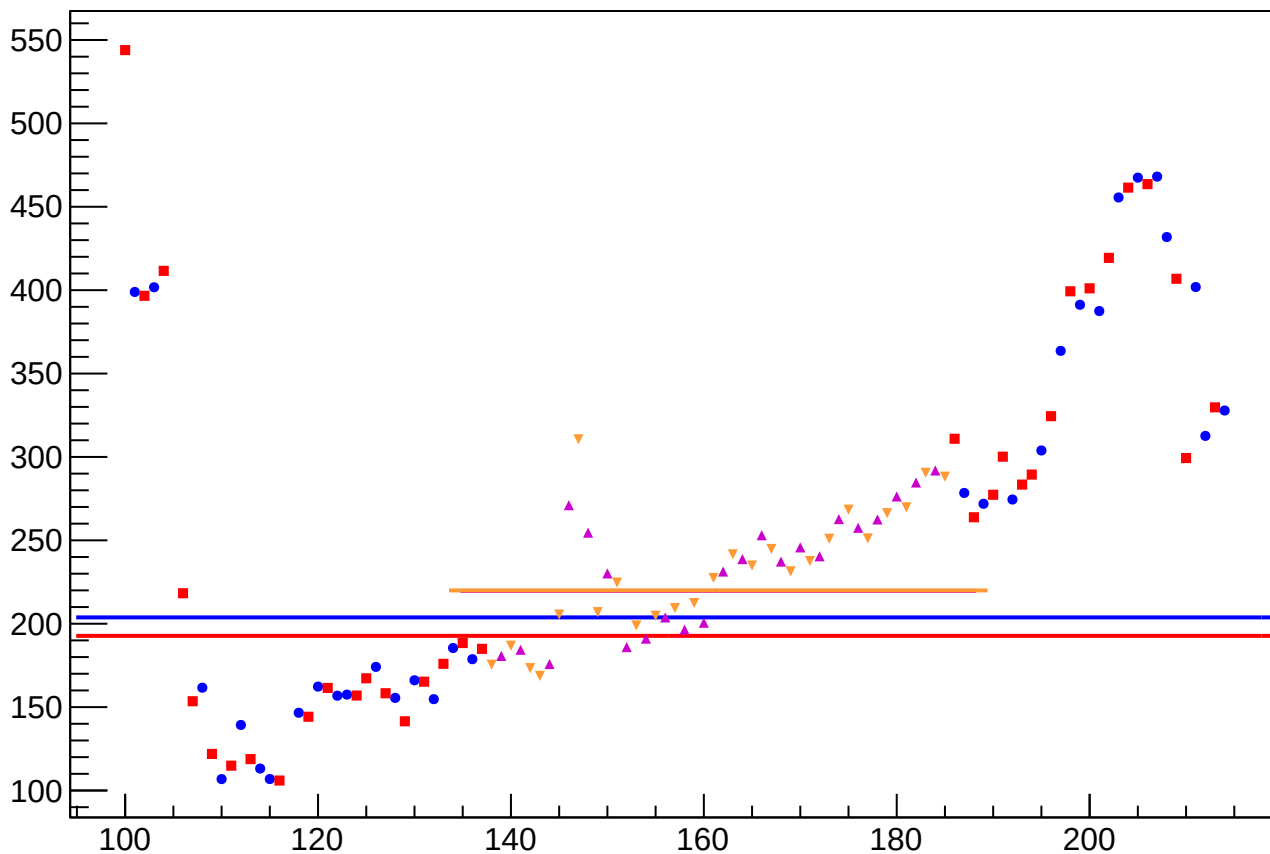
All: 18.162 $\pm$ 0.003 χ^2 /NDF: 91740724.0/112

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141242.844+/-0.056	χ^2/NDF : 959021277.4/30	Left: 142164.953+/-0.038	χ^2/NDF : 1460209902.9/4
Left Out: 142136.579+/-0.052	χ^2/NDF : 815573343.0/24	Right: 141198.686+/-0.038	χ^2/NDF : 1949468089.8/4
Right Out: 141160.341+/-0.052	χ^2/NDF : 989282746.9/33	In: 141736.969+/-0.039	χ^2/NDF : 1753386920.5/53
Left In: 142195.020+/-0.054	χ^2/NDF : 644030906.9/22	Out: 141646.650+/-0.037	χ^2/NDF : 1979544790.7/5
		All: 141689.580+/-0.027	χ^2/NDF : 373577463.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 203.790 $\pm$ 0.040 χ^2 /NDF: 6233296.5/30

Left Out: 219.969 $\pm$ 0.037 χ^2 /NDF: 866616.3/24

Right Out: 192.723 $\pm$ 0.037 χ^2 /NDF: 6442104.1/33

Left In: 219.685 $\pm$ 0.038 χ^2 /NDF: 812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2 /NDF: 1679390.1/47

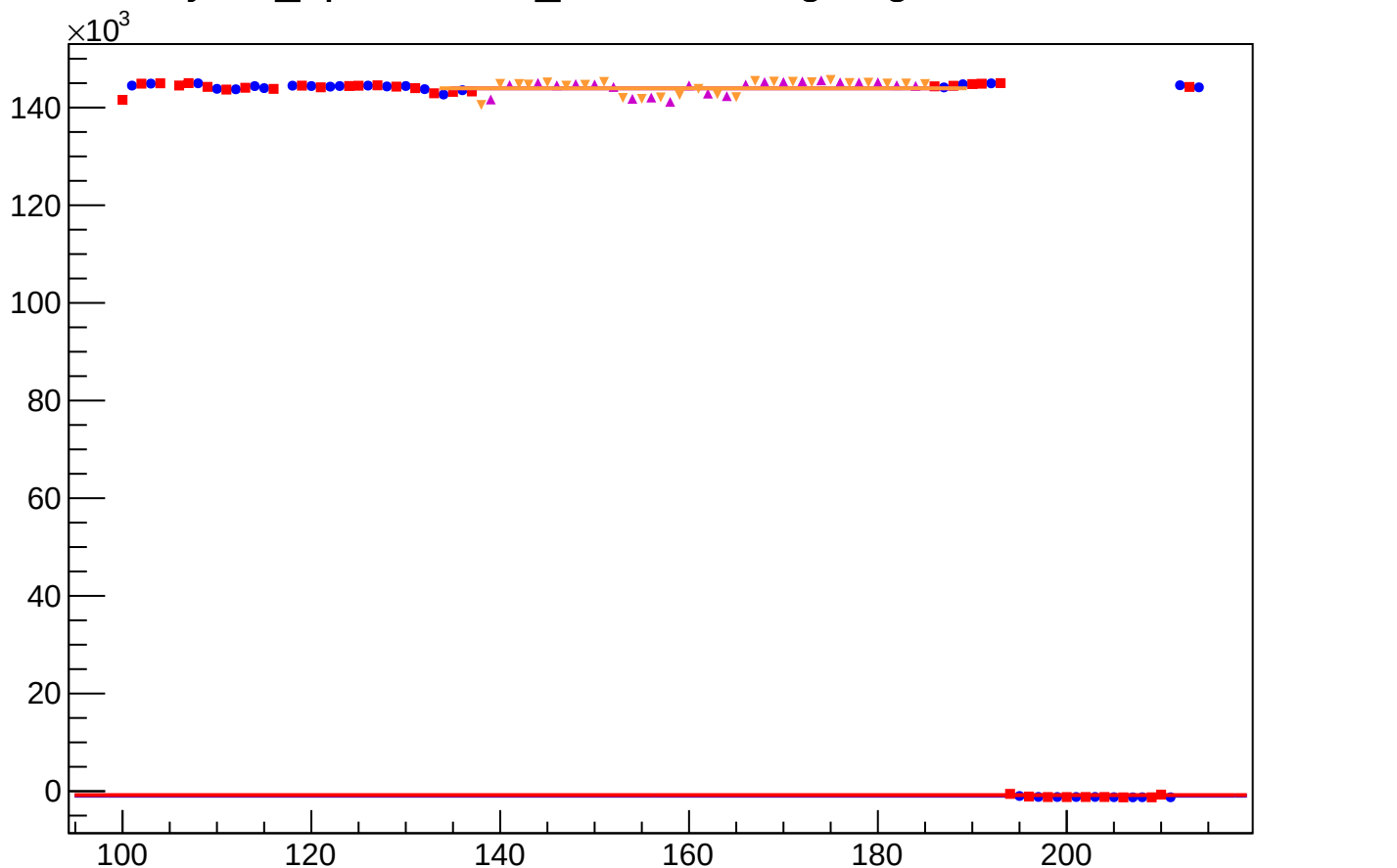
Right: 197.867 $\pm$ 0.027 χ^2 /NDF: 12717296.0/64

In: 212.038 $\pm$ 0.027 χ^2 /NDF: 7129821.4/53

Out: 206.295 $\pm$ 0.026 χ^2 /NDF: 7580865.7/58

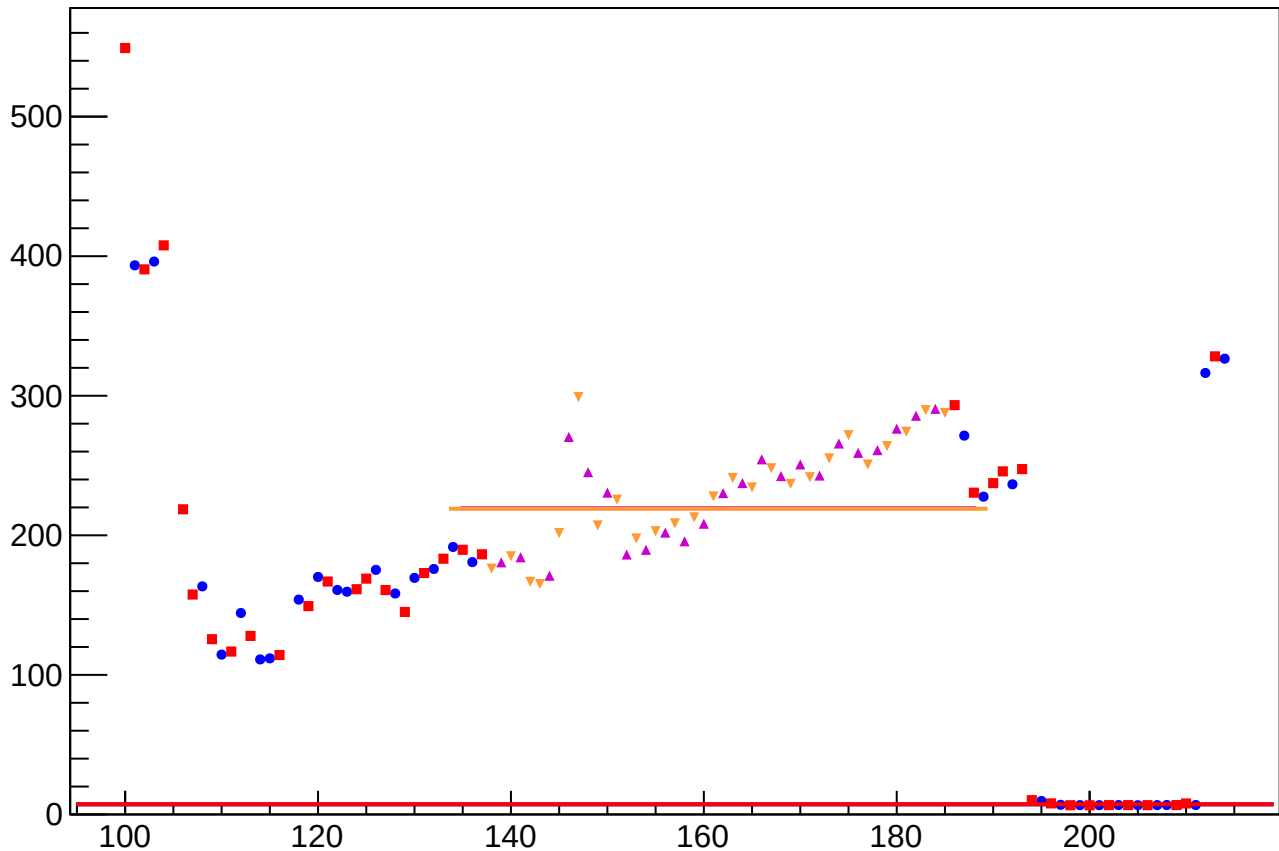
All: 209.025 $\pm$ 0.019 χ^2 /NDF: 14733676.1/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -926.105 ± 0.003 $\chi^2/\text{NDF}: 5603813233521.2/30$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -800.010 ± 0.003 $\chi^2/\text{NDF}: 6545442711476.7/33$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/30$
 Right: -868.936 ± 0.002 $\chi^2/\text{NDF}: 12150293499205.2/24$
 In: -579.735 ± 0.003 $\chi^2/\text{NDF}: 12826479183925.5/33$
 Out: -355.289 ± 0.003 $\chi^2/\text{NDF}: 14231212974702.9/33$
 All: -477.938 ± 0.002 $\chi^2/\text{NDF}: 27060988557.2/114$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.223+/-0.002 χ^2/NDF : 17776338.4/30

Left Out: 219.050+/-0.037 χ^2/NDF :934417.6/24

Right Out: 7.321+/-0.002 χ^2/NDF : 18867640.7/33

Left In: 219.426+/-0.038 χ^2/NDF :850089.5/22

Left: 219.232+/-0.026 χ^2/NDF : 1784557.4/47

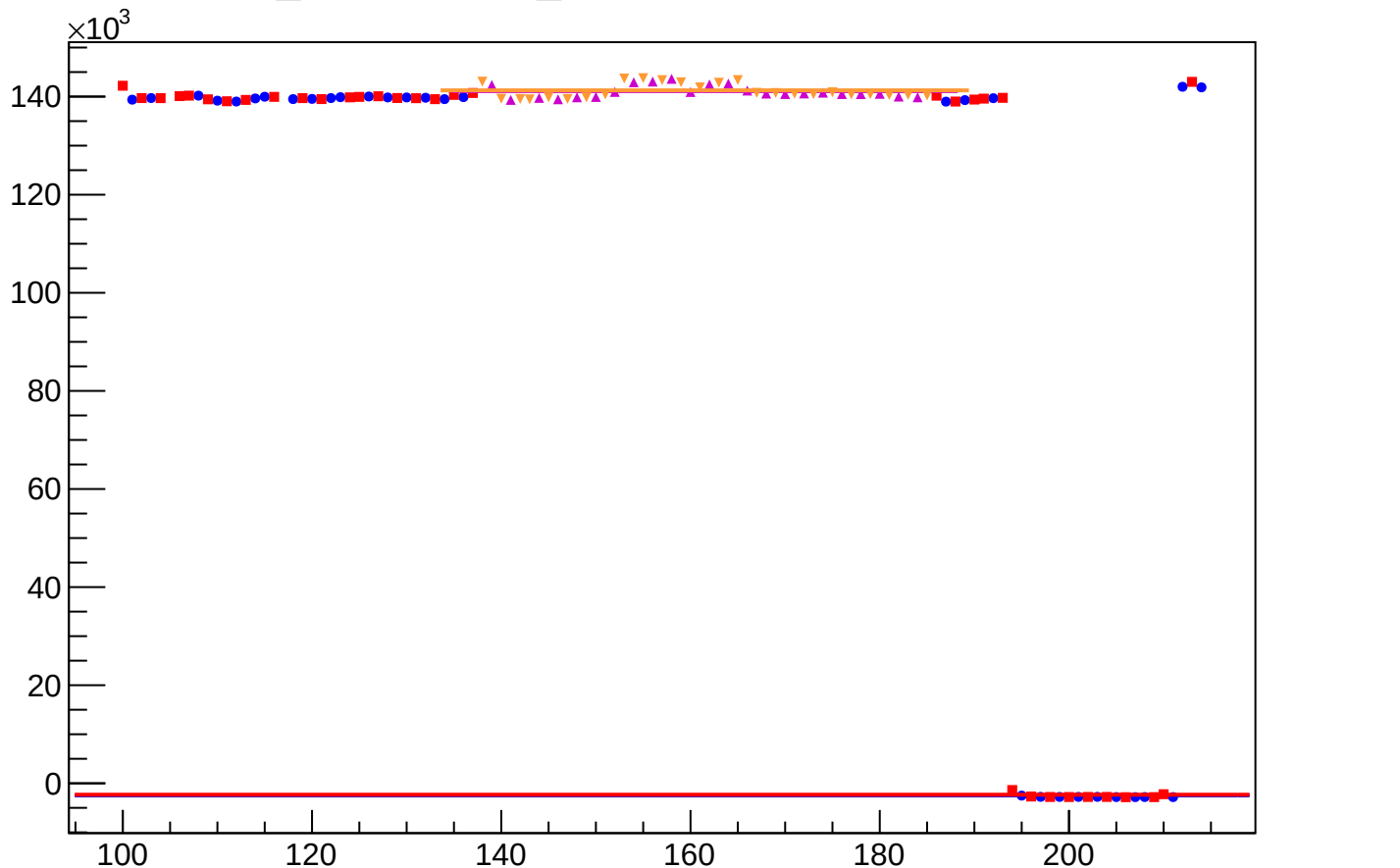
Right: 7.268+/-0.001 χ^2/NDF : 36645217.2/64

In: 7.731+/-0.002 χ^2/NDF :49619269.8/53

Out: 7.971+/-0.002 χ^2/NDF :52686004.4/58

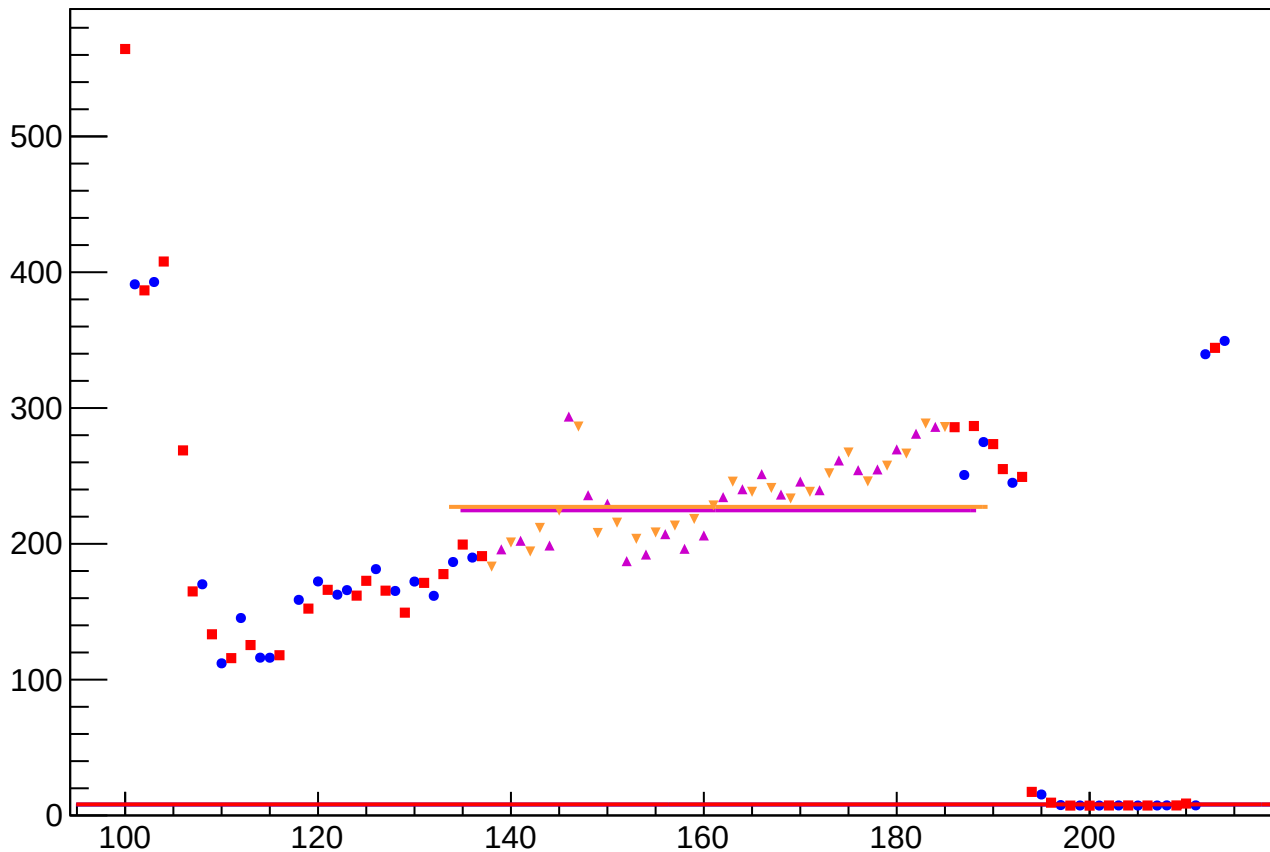
All: 7.840+/-0.001 χ^2/NDF : 102312845.3/112

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2466.060 $\pm$ 0.003	χ^2 /NDF: 5127853590254.5/30	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2403.144 $\pm$ 0.002	χ^2 /NDF: 1105037114699
Right Out: -2327.246 $\pm$ 0.003	χ^2 /NDF: 5921513755819.4/33	In: -2052.988 $\pm$ 0.003	χ^2 /NDF: 11945345410772.3
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1806.477 $\pm$ 0.003	χ^2 /NDF: 13047147470074
		All: -1941.213 $\pm$ 0.002	χ^2 /NDF: 2499566891

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.018 $\pm$ 0.002 χ^2 /NDF: 17914755.5/30

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF:484955.3/24

Right Out: 8.144 $\pm$ 0.002 χ^2 /NDF: 18904667.9/33

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF:578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

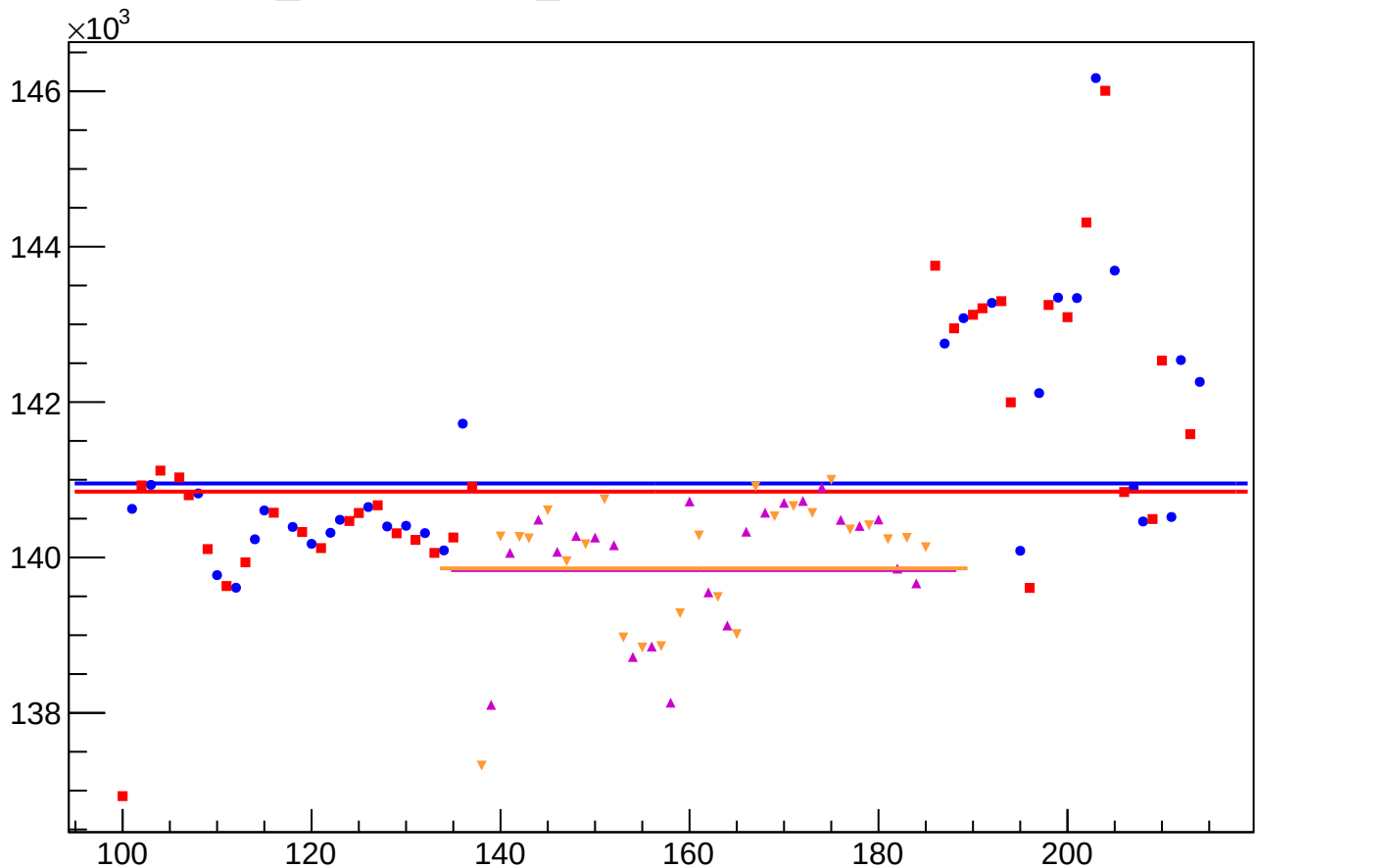
Right: 8.075 $\pm$ 0.002 χ^2 /NDF: 36821096.2/64

In: 8.641 $\pm$ 0.002 χ^2 /NDF:49537971.4/53

Out: 8.939 $\pm$ 0.002 χ^2 /NDF:52557995.7/58

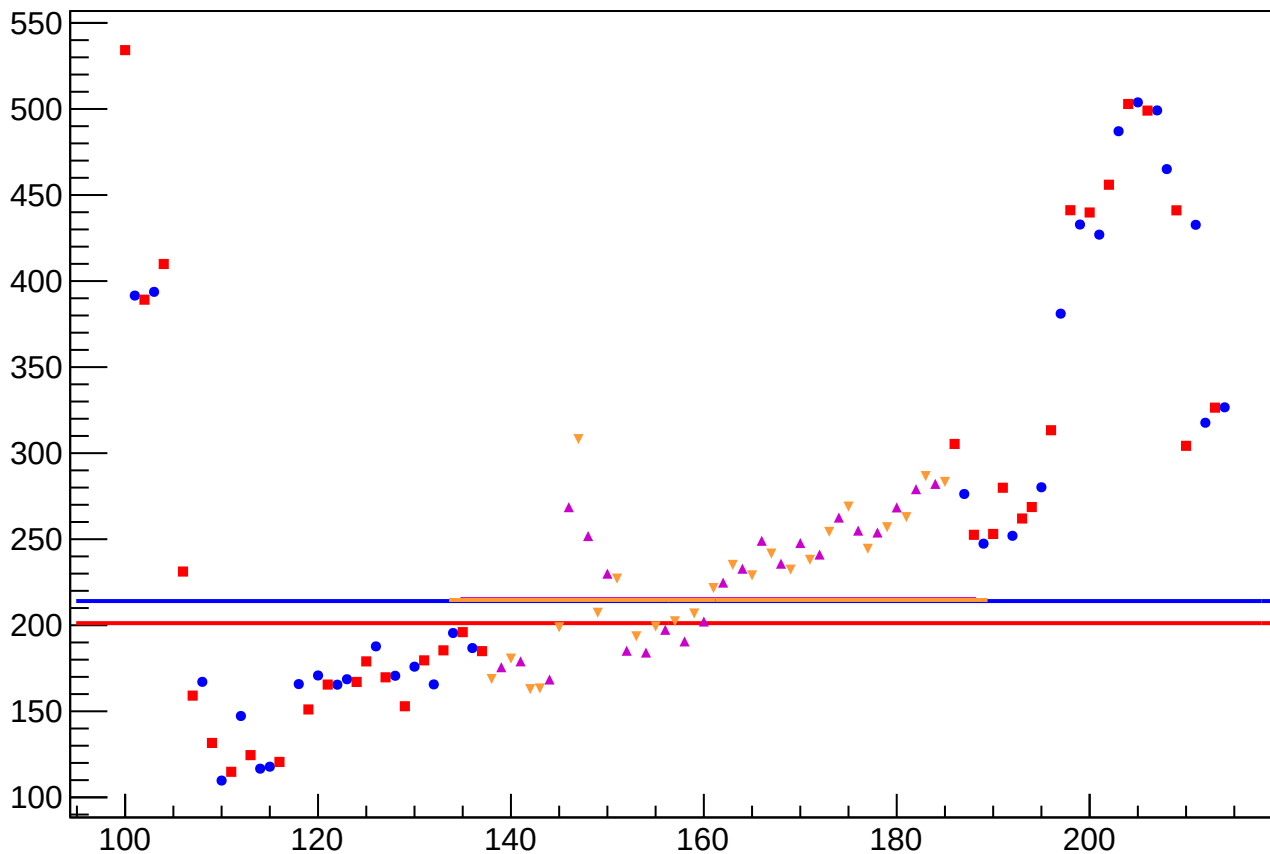
All: 8.776 $\pm$ 0.002 χ^2 /NDF: 102105244.2/112

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140952.565 $\pm$ 0.059	χ^2 /NDF: 461115131.9/30	Left: 139849.553 $\pm$ 0.037	χ^2 /NDF: 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 140896.027 $\pm$ 0.040	χ^2 /NDF: 992507910.6/6
Right Out: 140847.722 $\pm$ 0.054	χ^2 /NDF: 529662694.7/33	In: 140338.417 $\pm$ 0.039	χ^2 /NDF: 940344040.2/53
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140325.489 $\pm$ 0.037	χ^2 /NDF: 1036047472.5/5
		All: 140331.605 $\pm$ 0.027	χ^2 /NDF: 197644883.1/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 214.061 $\pm$ 0.041 χ^2 /NDF: 5926750.6/30

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 201.224 $\pm$ 0.038 χ^2 /NDF: 6043330.1/33

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2 /NDF: 1863154.2/47

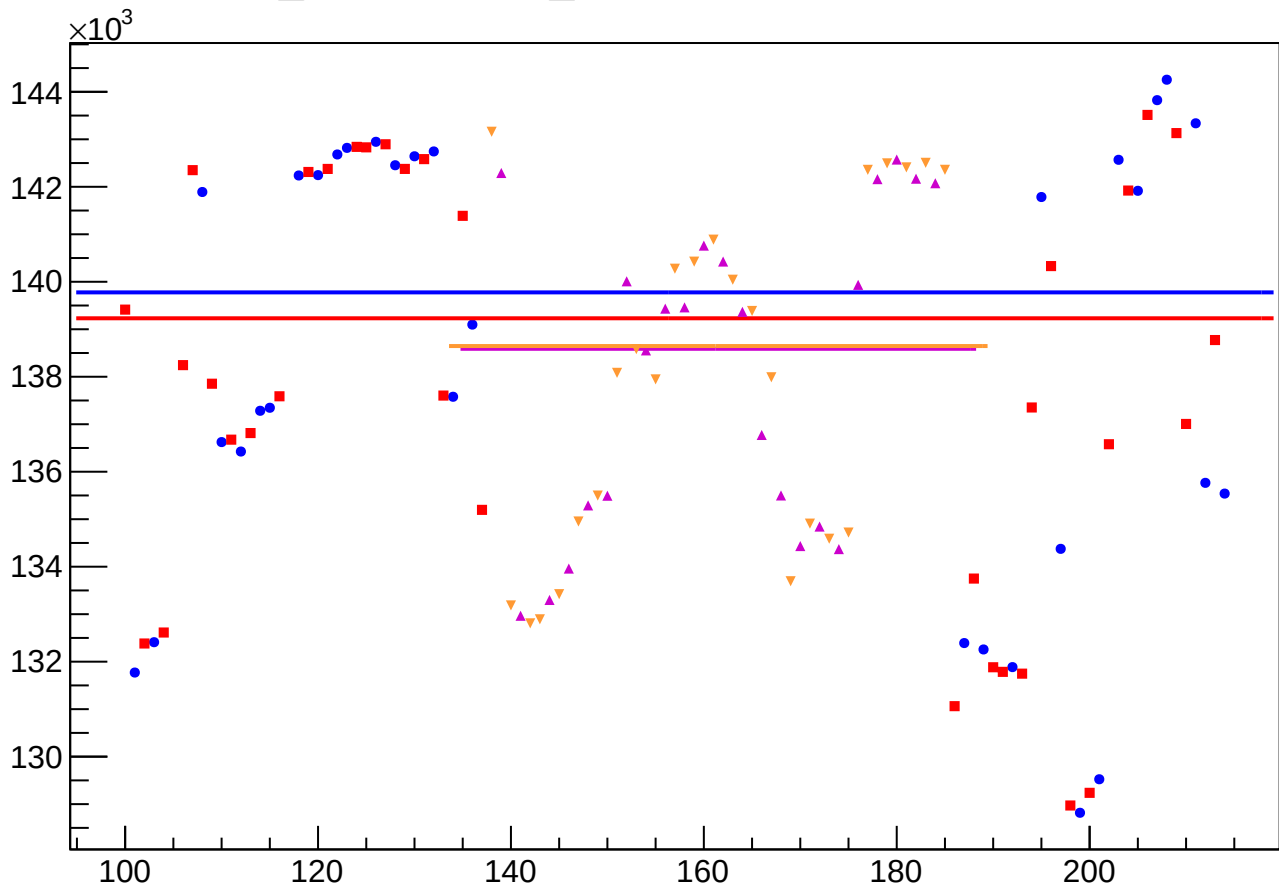
Right: 207.138 $\pm$ 0.028 χ^2 /NDF: 12021957.7/64

In: 214.701 $\pm$ 0.028 χ^2 /NDF: 6809129.2/53

Out: 208.343 $\pm$ 0.026 χ^2 /NDF: 7089949.7/58

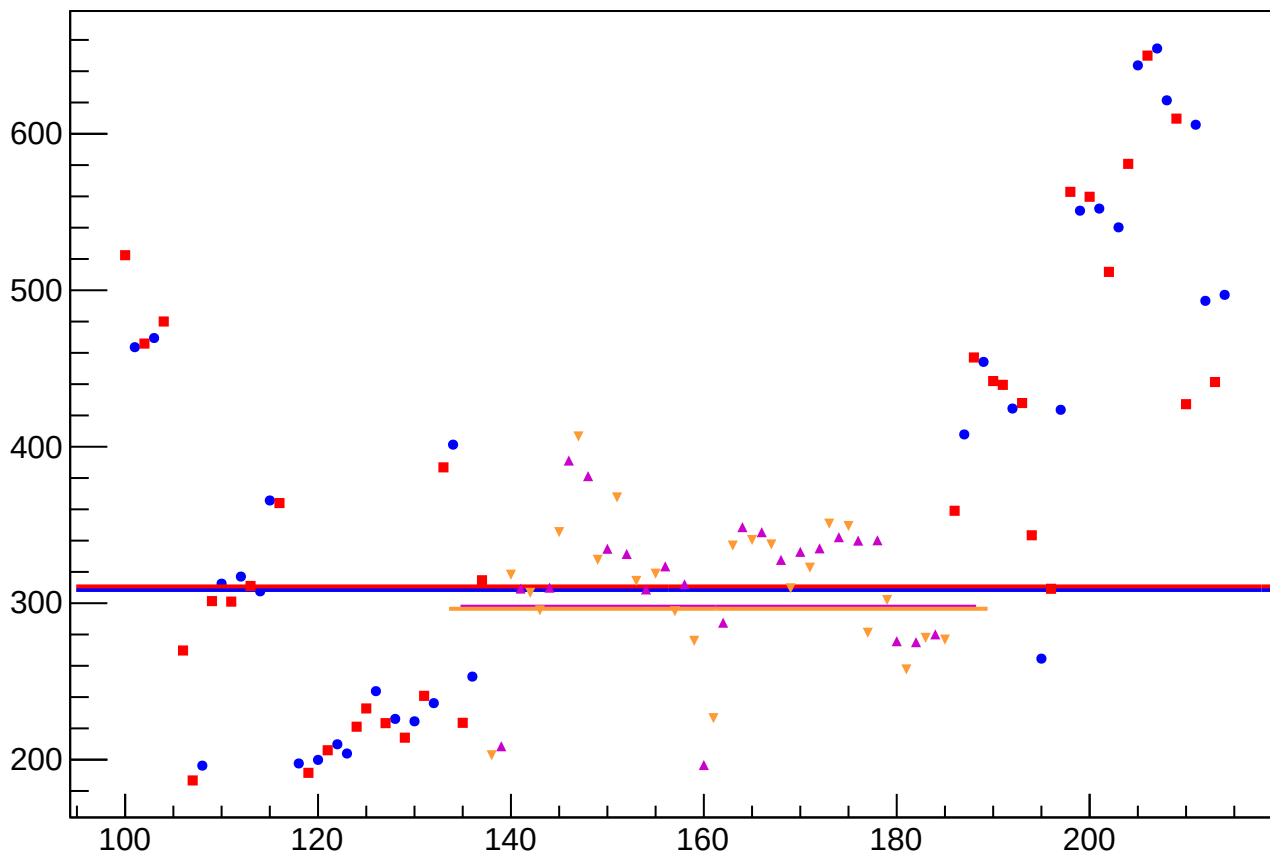
All: 211.351 $\pm$ 0.019 χ^2 /NDF: 13926795.7/11

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139776.459+/-0.083	$\chi^2/\text{NDF}: 2387176183.1/30$	Left: 138618.660+/-0.051	$\chi^2/\text{NDF}: 4497021019.3/4$
Left Out: 138646.366+/-0.071	$\chi^2/\text{NDF}: 2548637600.4/24$	Right: 139498.094+/-0.058	$\chi^2/\text{NDF}: 4845280194.2/4$
Right Out: 139230.972+/-0.082	$\chi^2/\text{NDF}: 2436174988.8/33$	In: 139110.544+/-0.055	$\chi^2/\text{NDF}: 4449467106.6/53$
Left In: 138588.711+/-0.074	$\chi^2/\text{NDF}: 1948065195.1/22$	Out: 138897.950+/-0.053	$\chi^2/\text{NDF}: 5014112274.5/53$
		All: 139000.957+/-0.038	$\chi^2/\text{NDF}: 947123757.1/100$

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 308.475+/-0.059 χ^2/NDF : 4941381.2/30

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 310.714+/-0.058 χ^2/NDF : 4389447.8/33

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

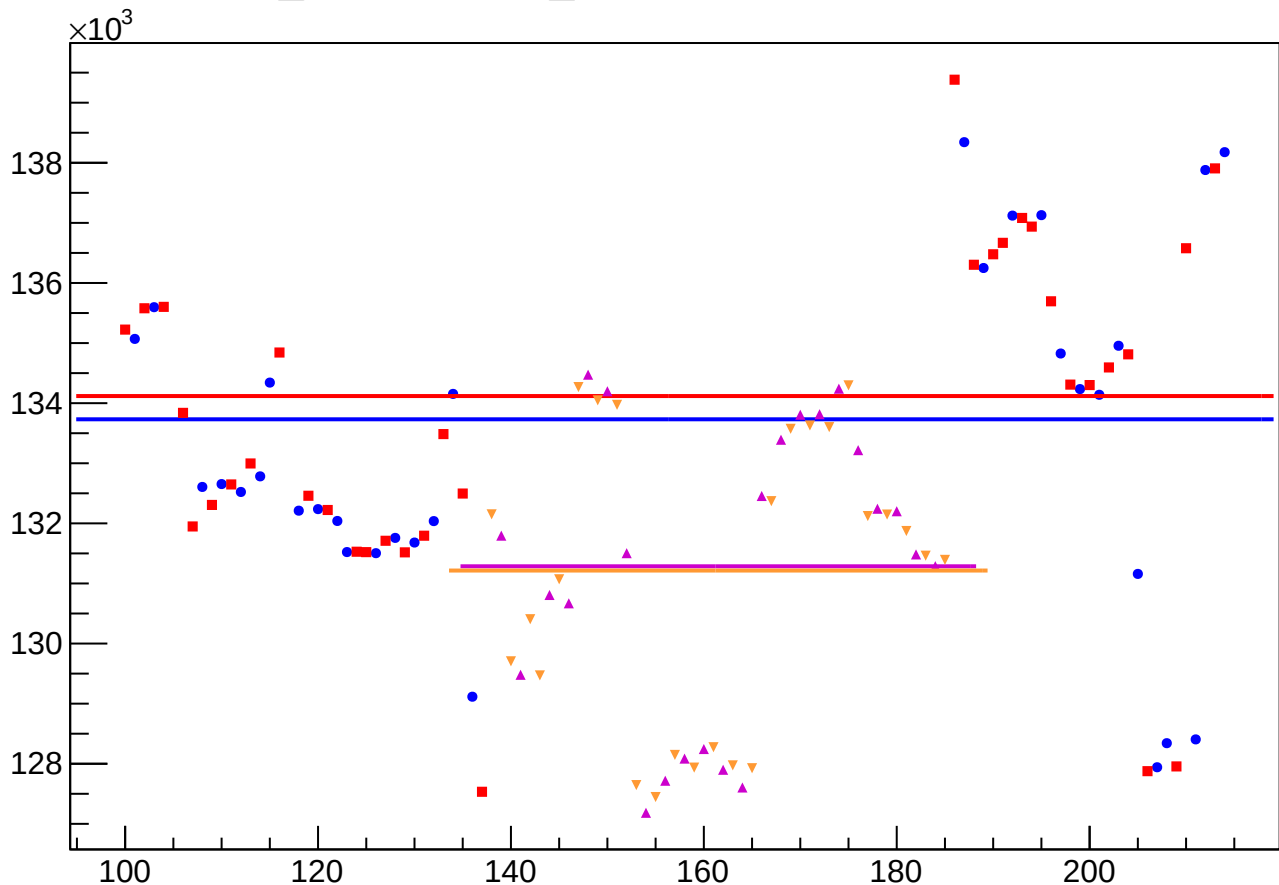
Right: 309.618+/-0.041 χ^2/NDF : 9331567.8/64

In: 302.476+/-0.039 χ^2/NDF : 6021414.3/53

Out: 302.597+/-0.038 χ^2/NDF : 5317843.1/58

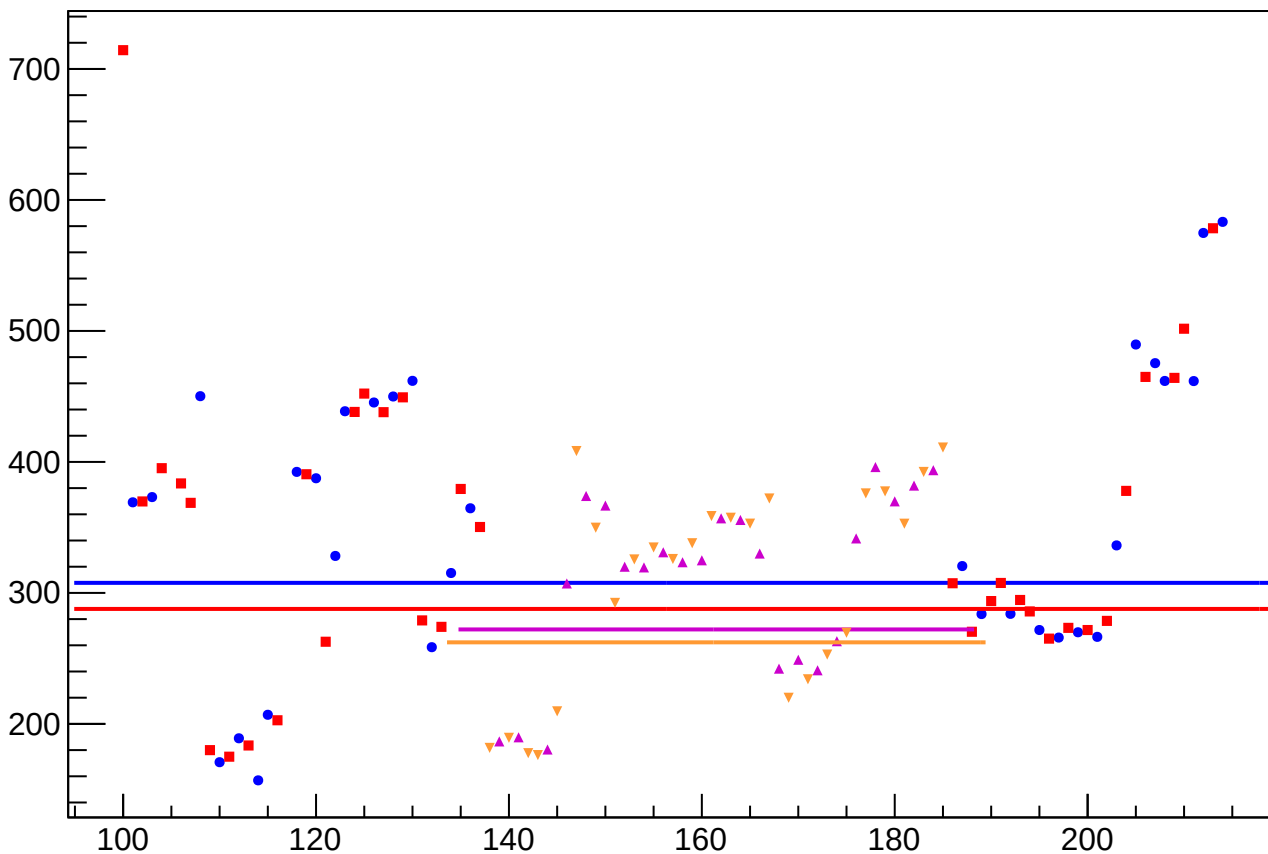
All: 302.538+/-0.027 χ^2/NDF : 11339262.3/113

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133731.705+/-0.080	χ^2/NDF : 1019165147.2/30	Left: 131248.166+/-0.047	χ^2/NDF : 2230223308.9/4
Left Out: 131214.985+/-0.064	χ^2/NDF : 1173424494.6/24	Right: 133941.098+/-0.054	χ^2/NDF : 2056980440.2/4
Right Out: 134118.493+/-0.074	χ^2/NDF : 1025121149.8/33	In: 132319.341+/-0.052	χ^2/NDF : 2616879240.2/53
Left In: 131285.623+/-0.068	χ^2/NDF : 1056232192.1/22	Out: 132473.718+/-0.048	χ^2/NDF : 3082072196.9/5
		All: 132401.936+/-0.035	χ^2/NDF : 570368053.1/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 307.680 $\pm$ 0.056 χ^2 /NDF: 3126114.4/30

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 287.772 $\pm$ 0.052 χ^2 /NDF: 2941402.7/33

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

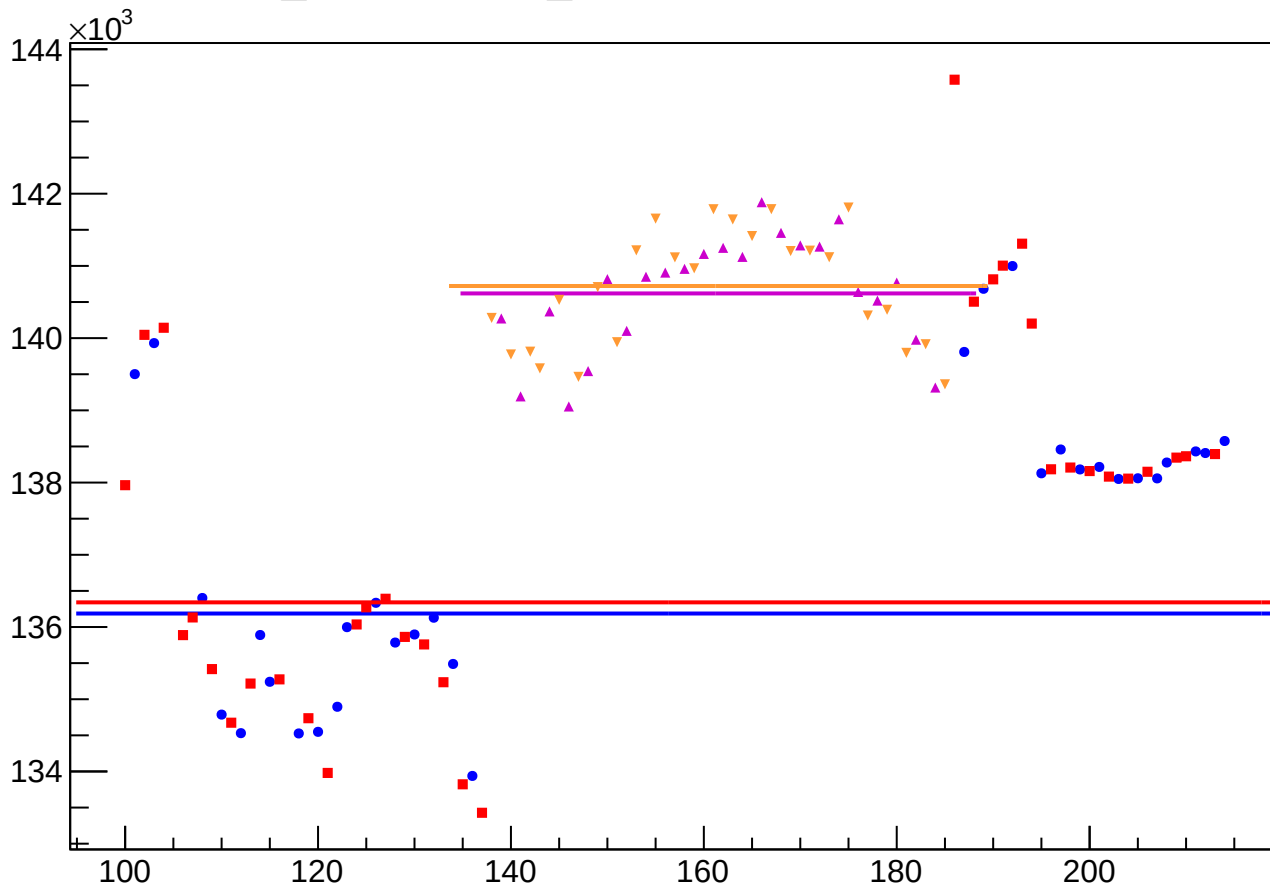
Right: 296.902 $\pm$ 0.038 χ^2 /NDF: 6134772.0/64

In: 287.145 $\pm$ 0.037 χ^2 /NDF: 5576977.4/53

Out: 273.320 $\pm$ 0.034 χ^2 /NDF: 5896001.5/58

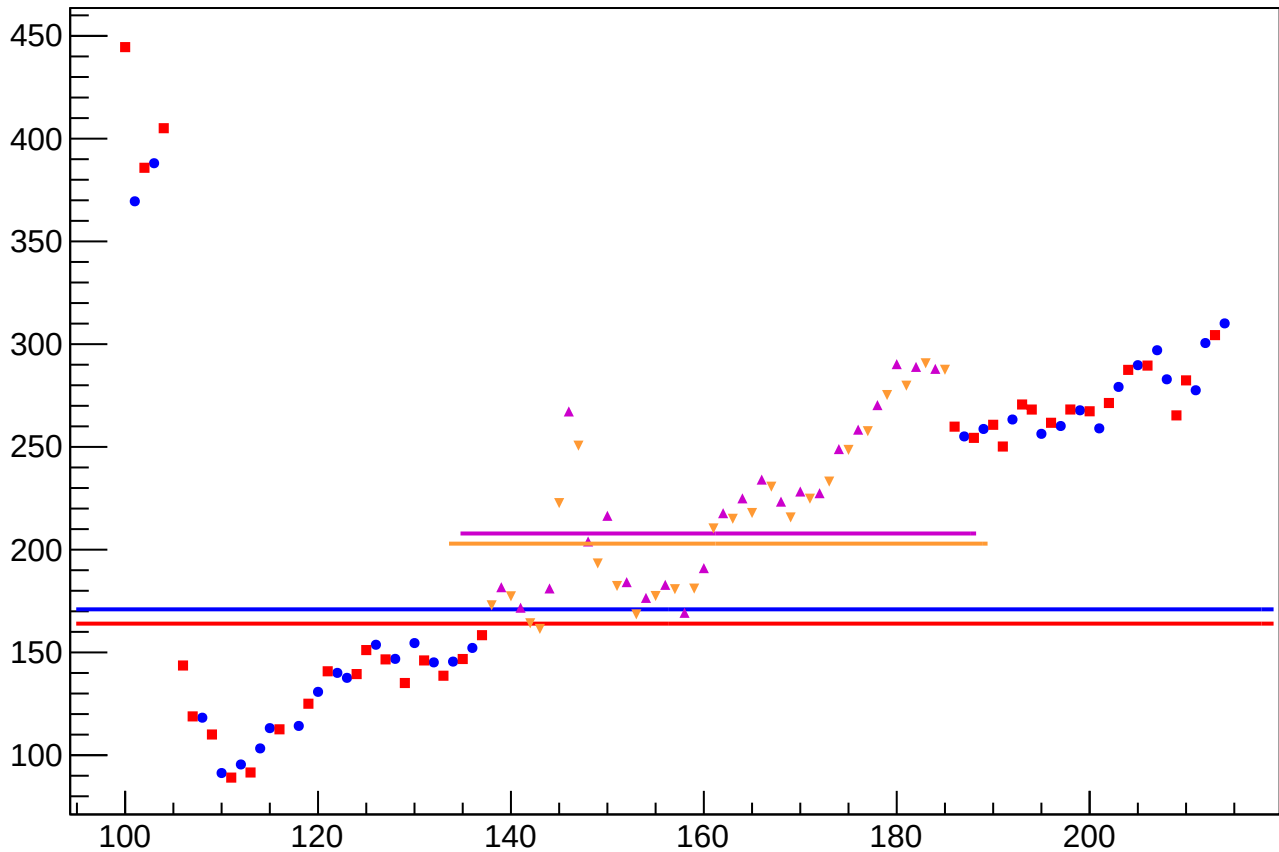
All: 279.748 $\pm$ 0.025 χ^2 /NDF: 11548827.8/11

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136186.814 $\pm$ 0.046	χ^2 /NDF: 1631347069.1/30	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 136267.999 $\pm$ 0.032	χ^2 /NDF: 3848192398.7/
Right Out: 136341.334 $\pm$ 0.044	χ^2 /NDF: 2210961878.6/33	In: 138179.765 $\pm$ 0.034	χ^2 /NDF: 5974455805.1/53
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138317.563 $\pm$ 0.033	χ^2 /NDF: 6952869481.6/5
		All: 138252.257 $\pm$ 0.024	χ^2 /NDF: 129358380

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 170.965 $\pm$ 0.033 χ^2 /NDF: 5394630.5/30

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 164.011 $\pm$ 0.031 χ^2 /NDF: 5756018.6/33

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

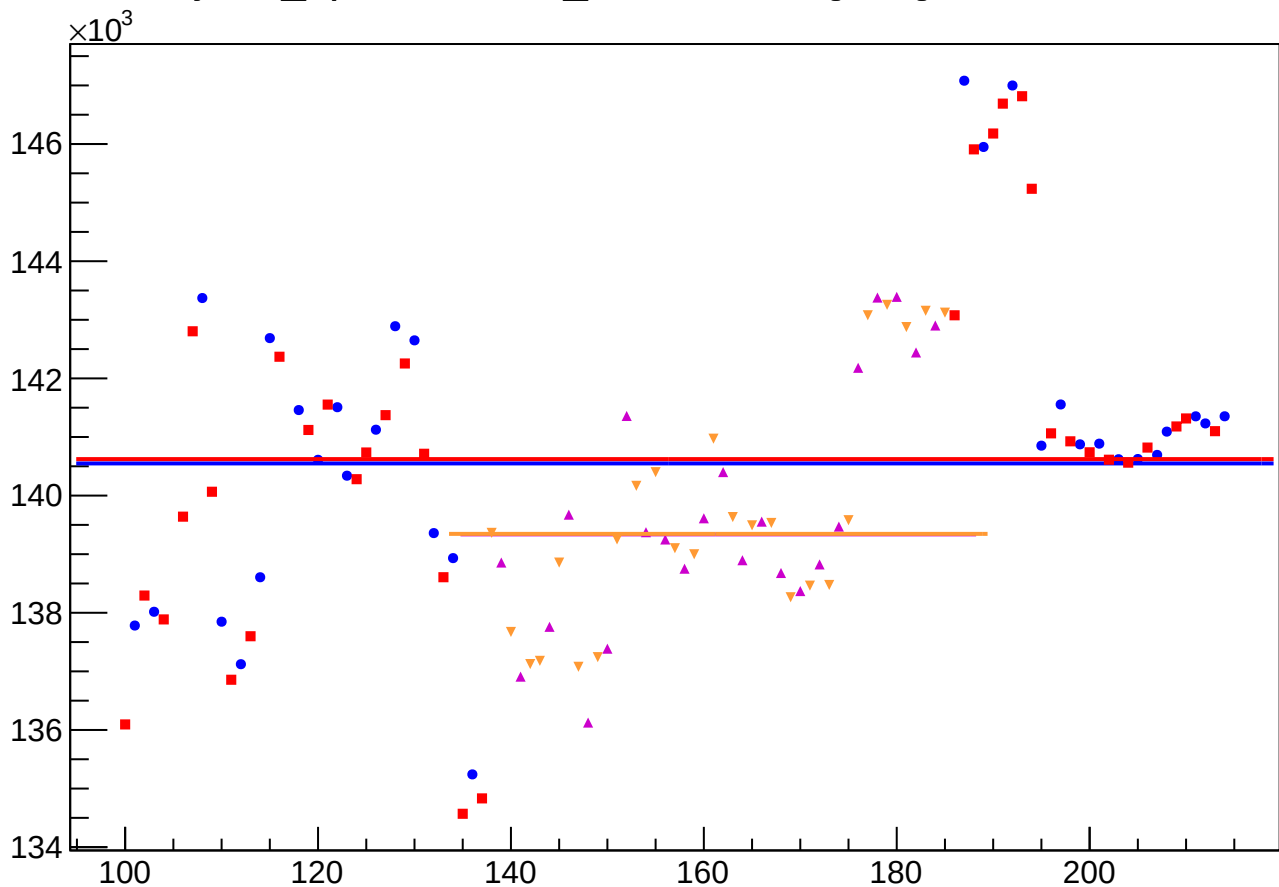
Right: 167.312 $\pm$ 0.022 χ^2 /NDF: 11174478.6/64

In: 187.560 $\pm$ 0.024 χ^2 /NDF:6918328.3/53

Out: 181.571 $\pm$ 0.023 χ^2 /NDF:7518020.2/58

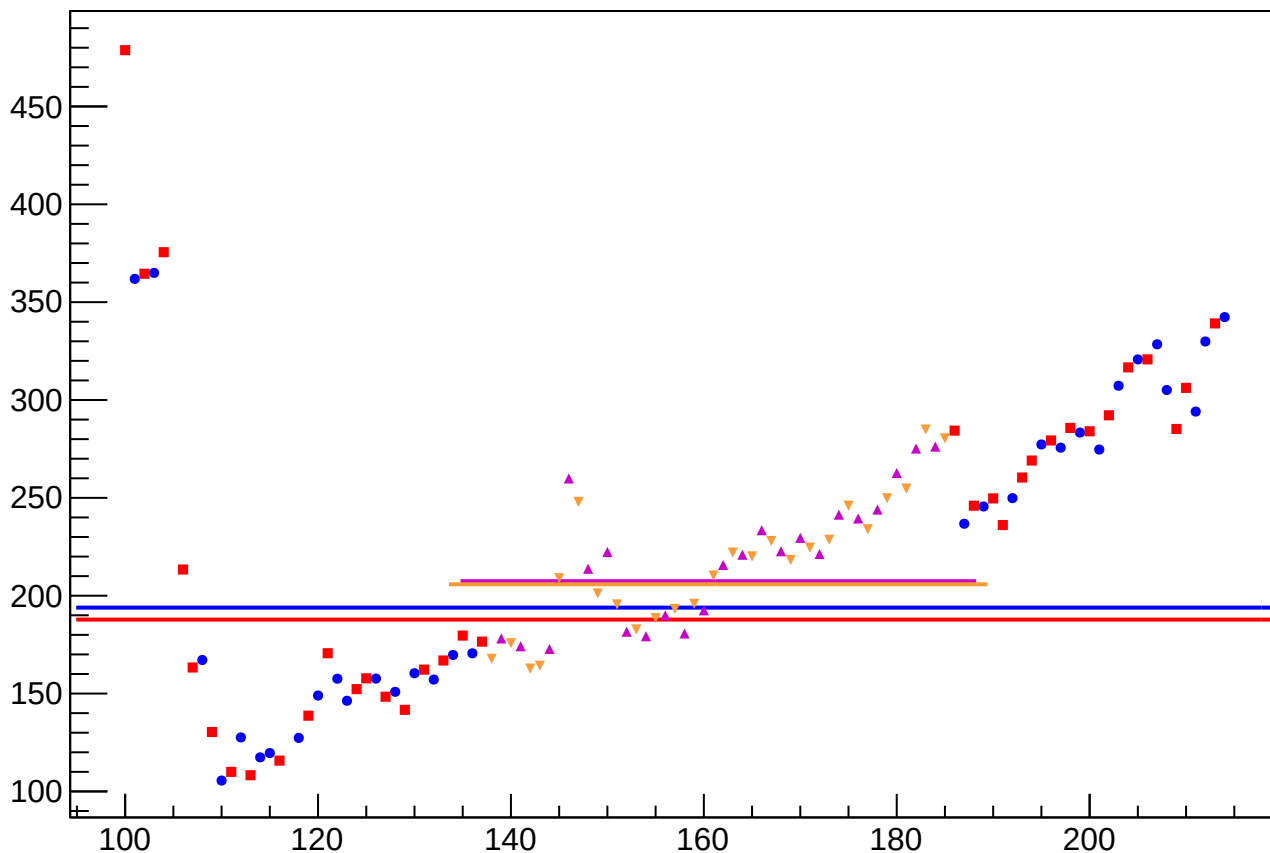
All: 184.409 $\pm$ 0.017 χ^2 /NDF: 14468510.0/11

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140548.905 $\pm$ 0.051	χ^2 /NDF: 2787330969.3/30	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140587.404 $\pm$ 0.036	χ^2 /NDF: 6008283529.6/
Right Out: 140622.672 $\pm$ 0.049	χ^2 /NDF: 3219879473.1/33	In: 139936.220 $\pm$ 0.036	χ^2 /NDF: 4360695741.1/5
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139981.094 $\pm$ 0.035	χ^2 /NDF: 4828747074.9/5
		All: 139959.569 $\pm$ 0.025	χ^2 /NDF: 919024410

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 193.923+/-0.036 χ^2/NDF : 4350902.8/30

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 187.813+/-0.035 χ^2/NDF : 4581822.6/33

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

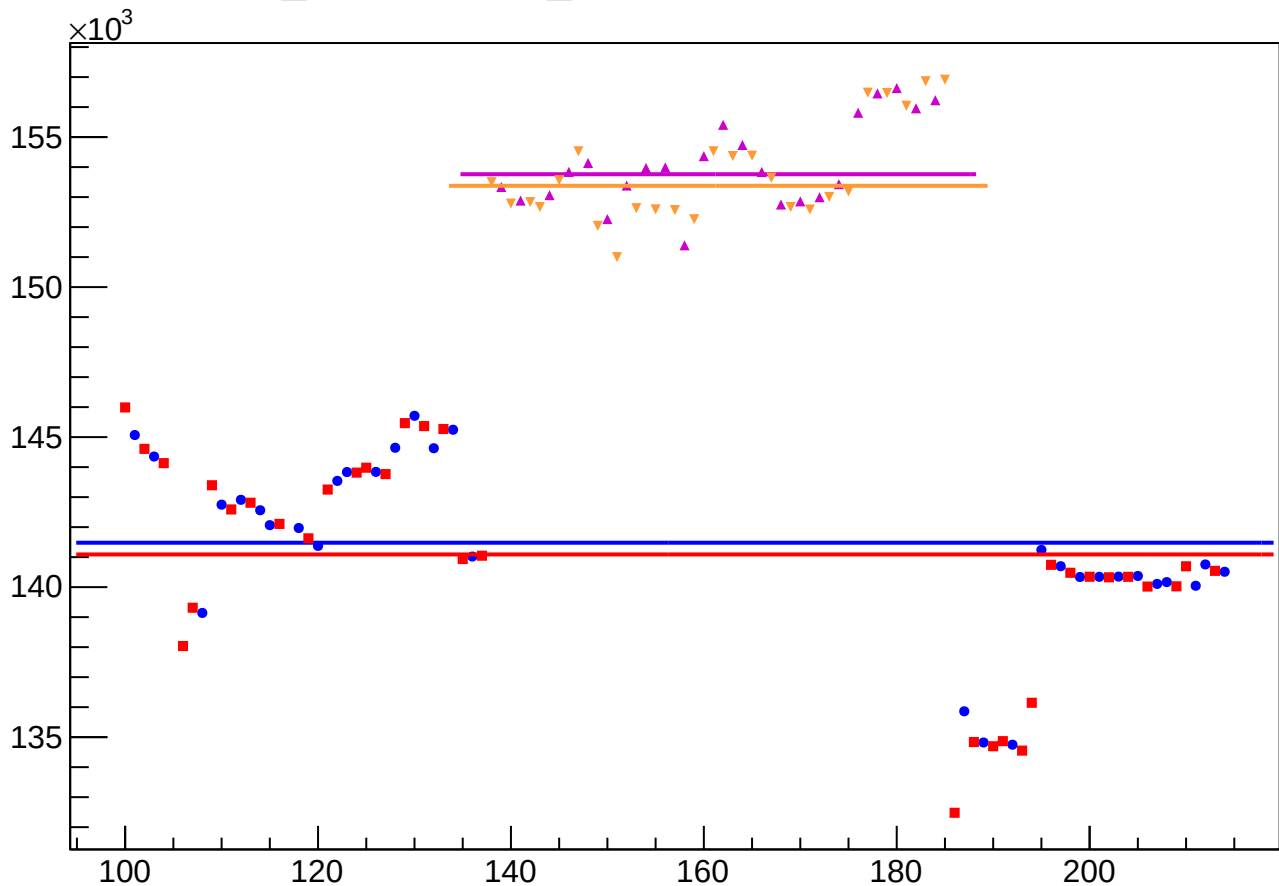
Right: 190.734+/-0.025 χ^2/NDF : 8947448.2/64

In: 200.749+/-0.026 χ^2/NDF : 5122469.6/53

Out: 196.873+/-0.025 χ^2/NDF : 5455169.1/58

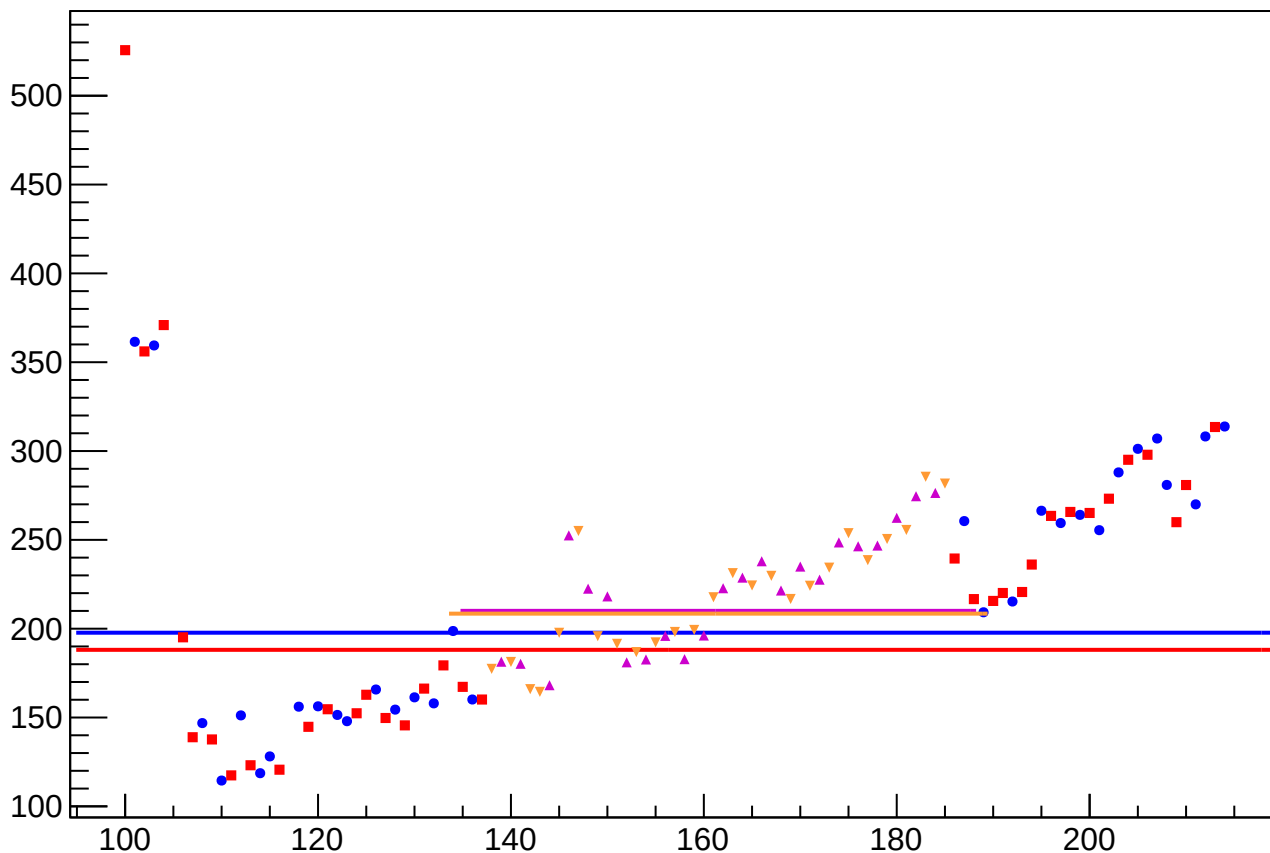
All: 198.732+/-0.018 χ^2/NDF : 10589597.5/112

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141480.541 $\pm$ 0.051	χ^2/NDF : 2742918412.2/30	Left: 153562.262 $\pm$ 0.036	χ^2/NDF : 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2/NDF : 803848095.1/24	Right: 141272.713 $\pm$ 0.035	χ^2/NDF : 7220179398.8/
Right Out: 141089.196 $\pm$ 0.048	χ^2/NDF : 4446543845.8/33	In: 147622.692 $\pm$ 0.036	χ^2/NDF : 31868639691.3/5
Left In: 153762.419 $\pm$ 0.051	χ^2/NDF : 635075685.0/22	Out: 147084.561 $\pm$ 0.035	χ^2/NDF : 36758596319.9
		All: 147340.139 $\pm$ 0.025	χ^2/NDF : 687421097

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 197.737 $\pm$ 0.036 χ^2 /NDF: 3200061.4/30

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 188.099 $\pm$ 0.034 χ^2 /NDF: 3376559.8/33

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

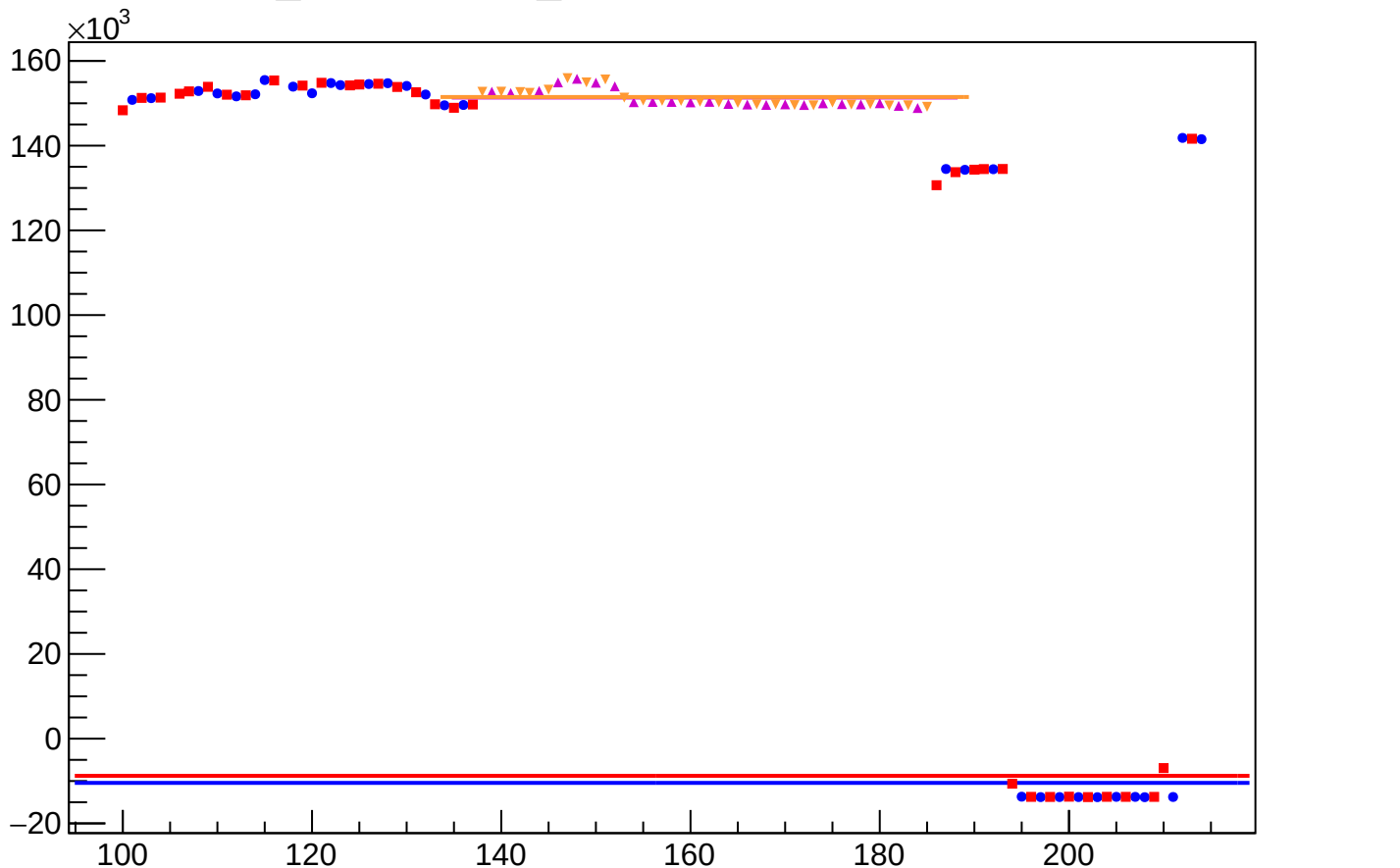
Right: 192.619 $\pm$ 0.025 χ^2 /NDF: 6613882.3/64

In: 203.889 $\pm$ 0.026 χ^2 /NDF: 3959586.5/53

Out: 198.037 $\pm$ 0.024 χ^2 /NDF: 4270581.3/58

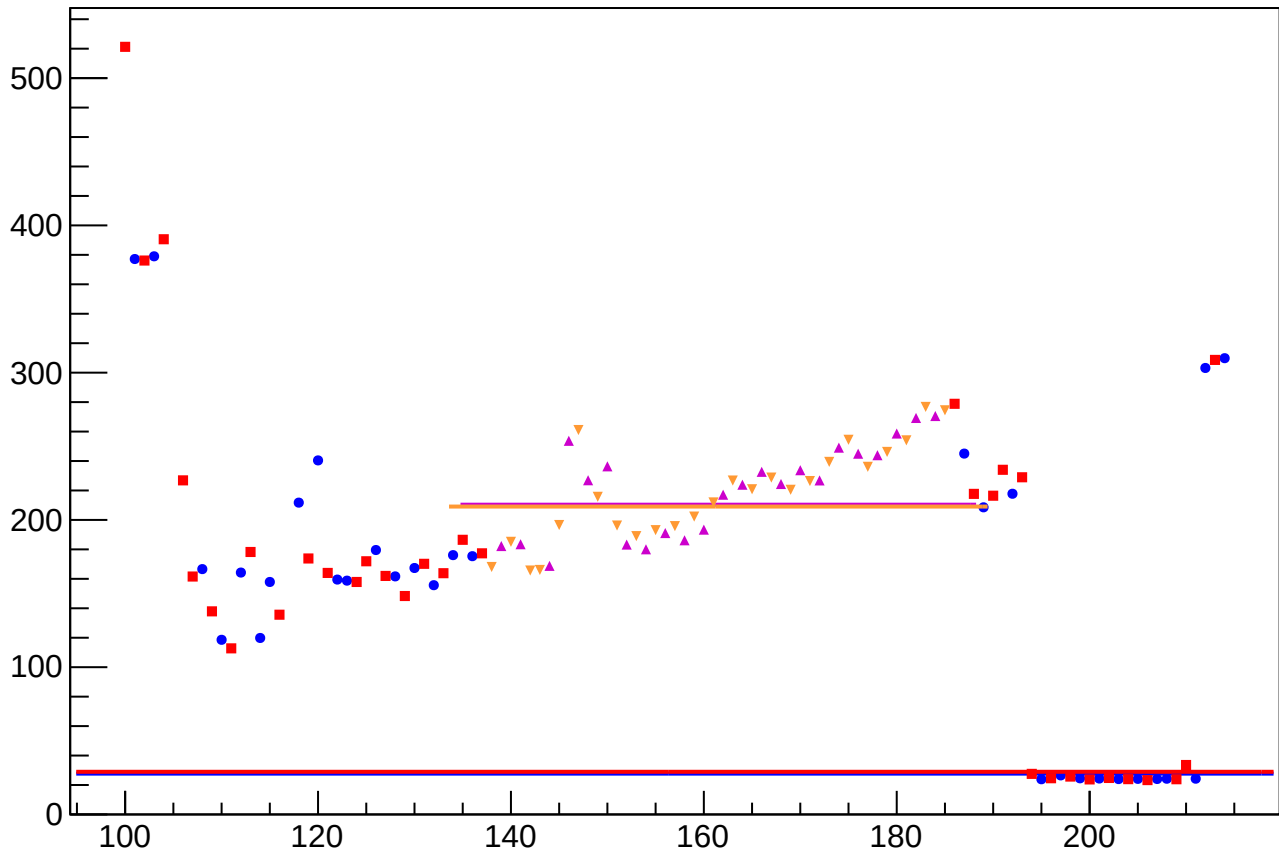
All: 200.816 $\pm$ 0.018 χ^2 /NDF: 8257338.2/112

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10439.536 $\pm$ 0.009	χ^2/NDF : 6267057423939.1/30	Left: 151425.512 $\pm$ 0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2/NDF : 1481910066.9/24	Right: -9676.082 $\pm$ 0.007	χ^2/NDF : 1362442228163
Right Out: -8768.053 $\pm$ 0.010	χ^2/NDF : 7342348480079.0/33	In: -5397.419 $\pm$ 0.009	χ^2/NDF : 15868644676702.3
Left In: 151363.165 $\pm$ 0.051	χ^2/NDF : 1421662089.0/22	Out: -2425.053 $\pm$ 0.010	χ^2/NDF : 17400644191529
		All: -4033.342 $\pm$ 0.007	χ^2/NDF : 3331853473

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.729+/-0.007 χ^2/NDF : 14062499.9/30

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 28.978+/-0.007 χ^2/NDF : 14752203.8/33

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

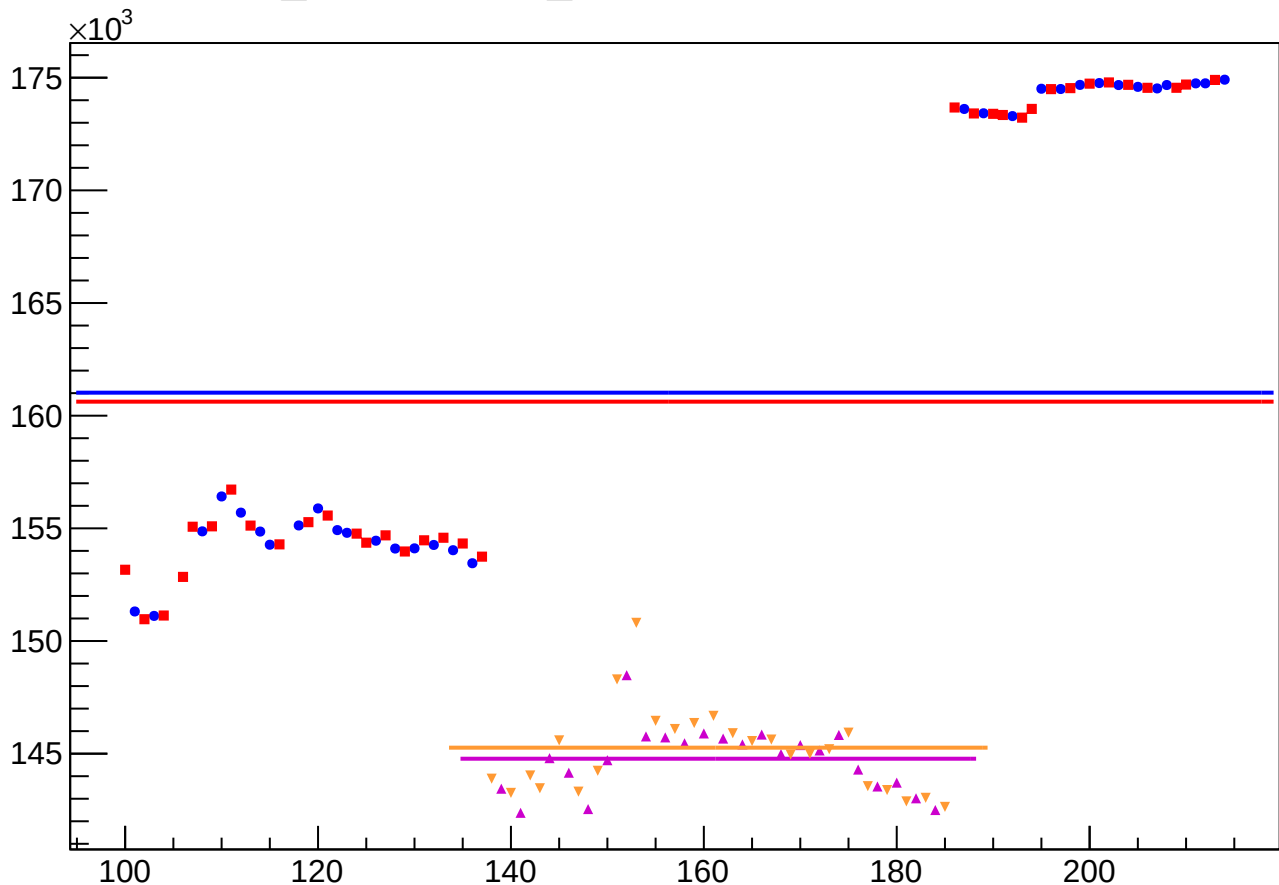
Right: 28.300+/-0.005 χ^2/NDF : 28831474.3/64

In: 33.420+/-0.006 χ^2/NDF : 39197798.1/53

Out: 36.107+/-0.007 χ^2/NDF : 40864504.6/58

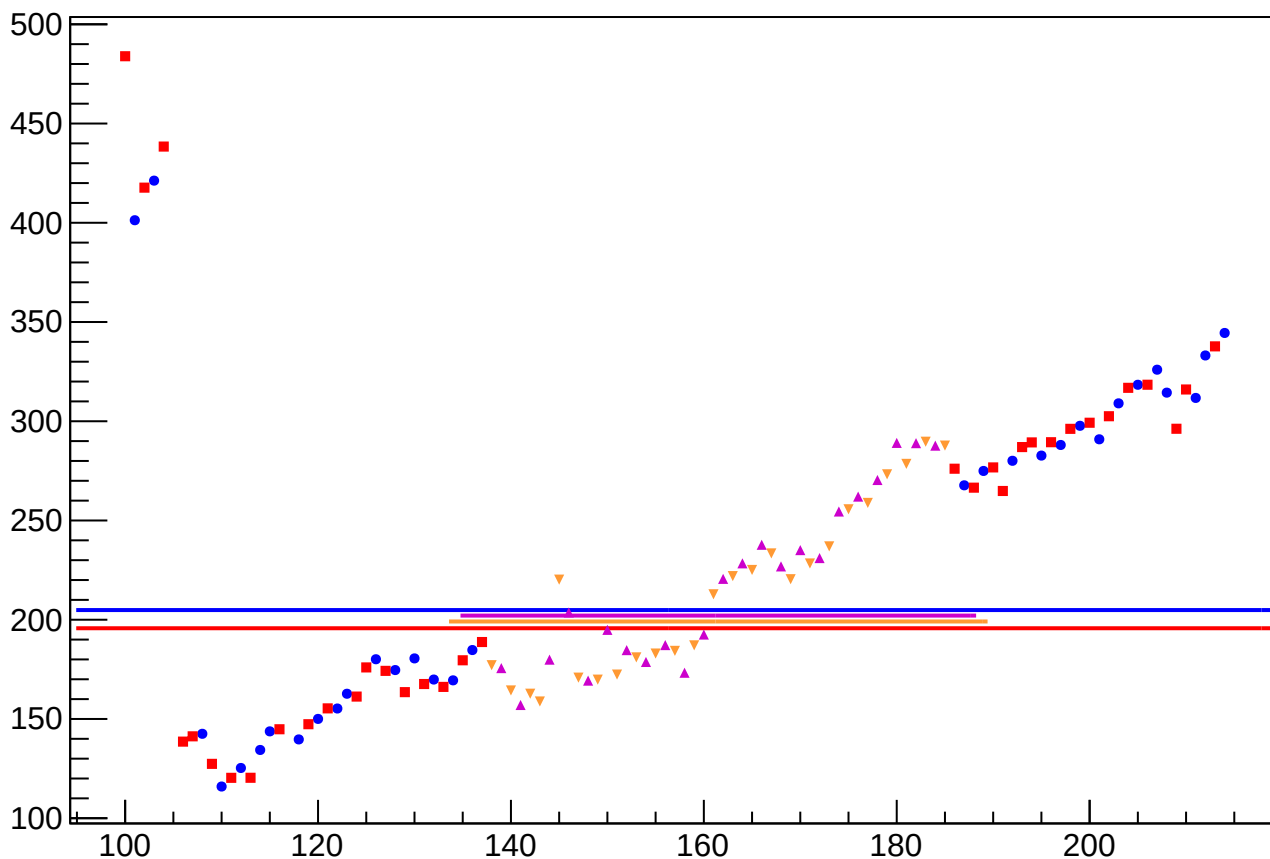
All: 34.653+/-0.005 χ^2/NDF : 80142784.5/112

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161021.626 $\pm$ 0.054	χ^2 /NDF: 28859890691.7/30	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/30
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 160810.196 $\pm$ 0.037	χ^2 /NDF: 59500155520.7/30
Right Out: 160622.430 $\pm$ 0.051	χ^2 /NDF: 30611410883.4/33	In: 152190.924 $\pm$ 0.037	χ^2 /NDF: 78821713021.5/30
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152387.281 $\pm$ 0.035	χ^2 /NDF: 81008295922.8/30
		All: 152294.148 $\pm$ 0.025	χ^2 /NDF: 159845190.0/30

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 204.871+/-0.038 χ^2/NDF : 4252924.6/30

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 195.707+/-0.036 χ^2/NDF : 4541813.9/33

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

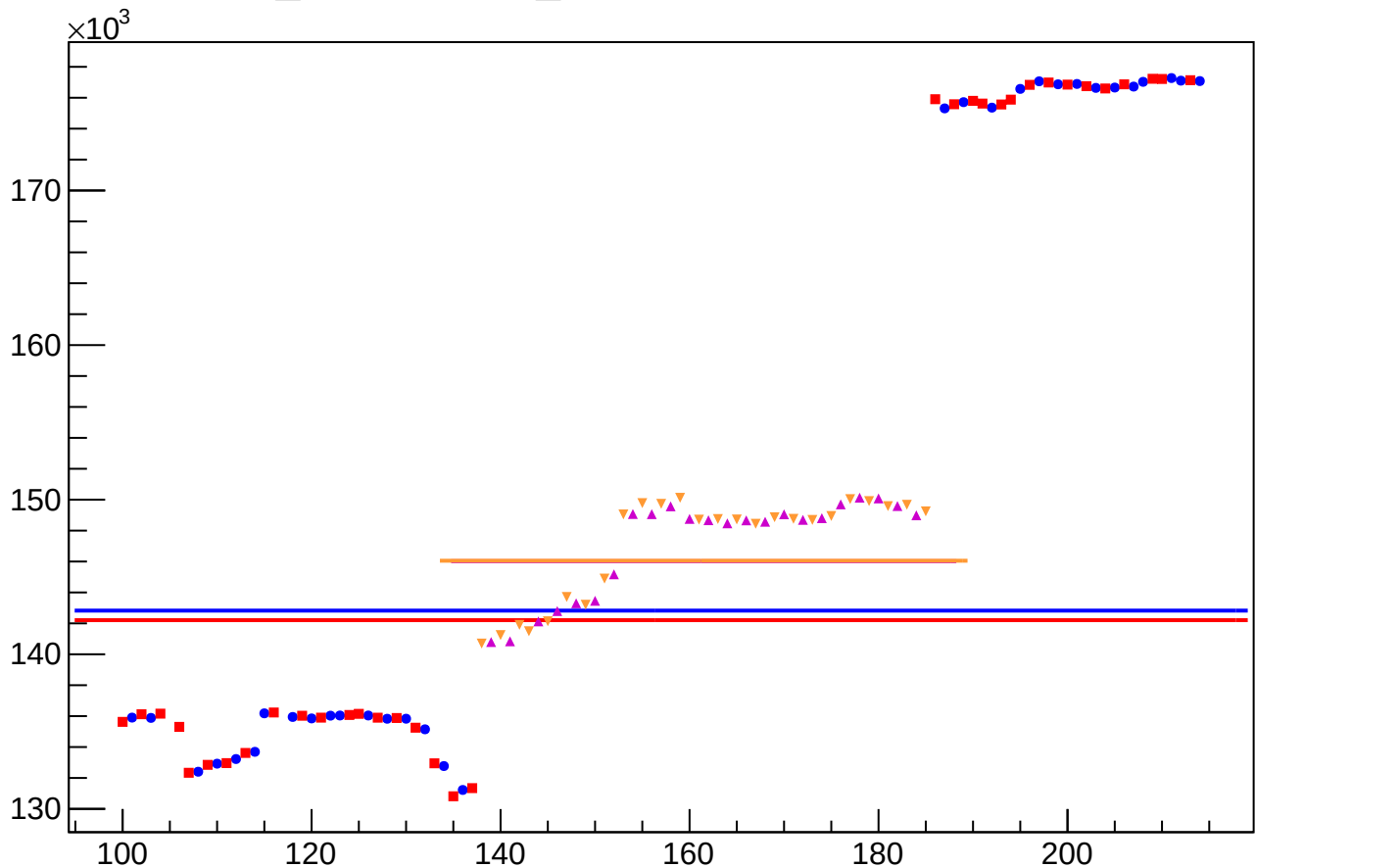
Right: 200.018+/-0.026 χ^2/NDF : 8825144.9/64

In: 203.359+/-0.026 χ^2/NDF : 5313631.2/53

Out: 197.537+/-0.025 χ^2/NDF : 5698847.6/58

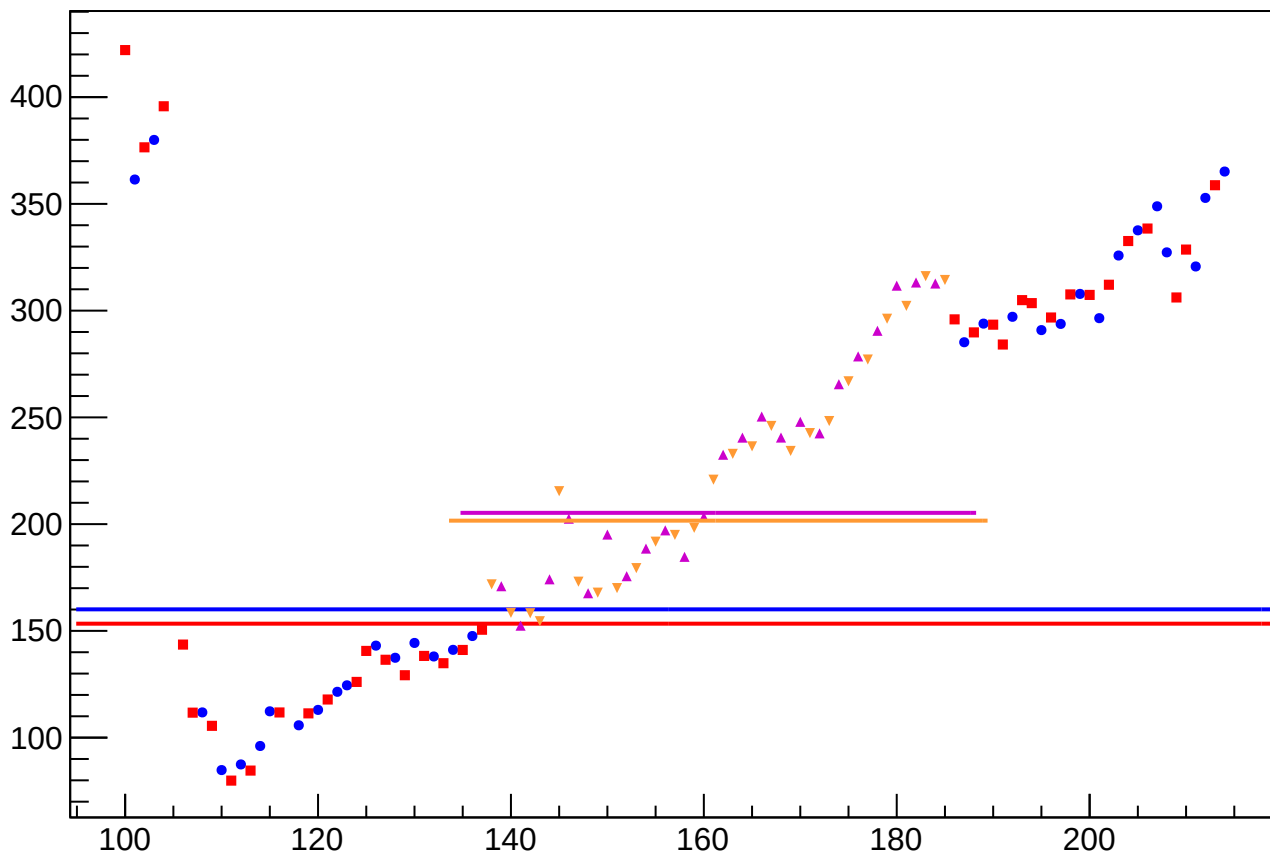
All: 200.298+/-0.018 χ^2/NDF : 11039178.7/11

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 142825.468 $\pm$ 0.045	χ^2/NDF : 143328920583.0/30	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 142499.186 $\pm$ 0.031	χ^2/NDF : 296122785382
Right Out: 142206.401 $\pm$ 0.043	χ^2/NDF : 152694275322.5/33	In: 144235.869 $\pm$ 0.034	χ^2/NDF : 150141787482.0
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 143891.454 $\pm$ 0.032	χ^2/NDF : 161657769771.
		All: 144054.849 $\pm$ 0.023	χ^2/NDF : 311854596

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 160.085+/-0.032 χ^2/NDF : 7625008.9/30

Left Out: 201.632+/-0.034 χ^2/NDF :1589564.0/24

Right Out: 153.373+/-0.030 χ^2/NDF : 7992519.2/33

Left In: 205.286+/-0.036 χ^2/NDF :1425292.7/22

Left: 203.372+/-0.025 χ^2/NDF : 3020309.5/47

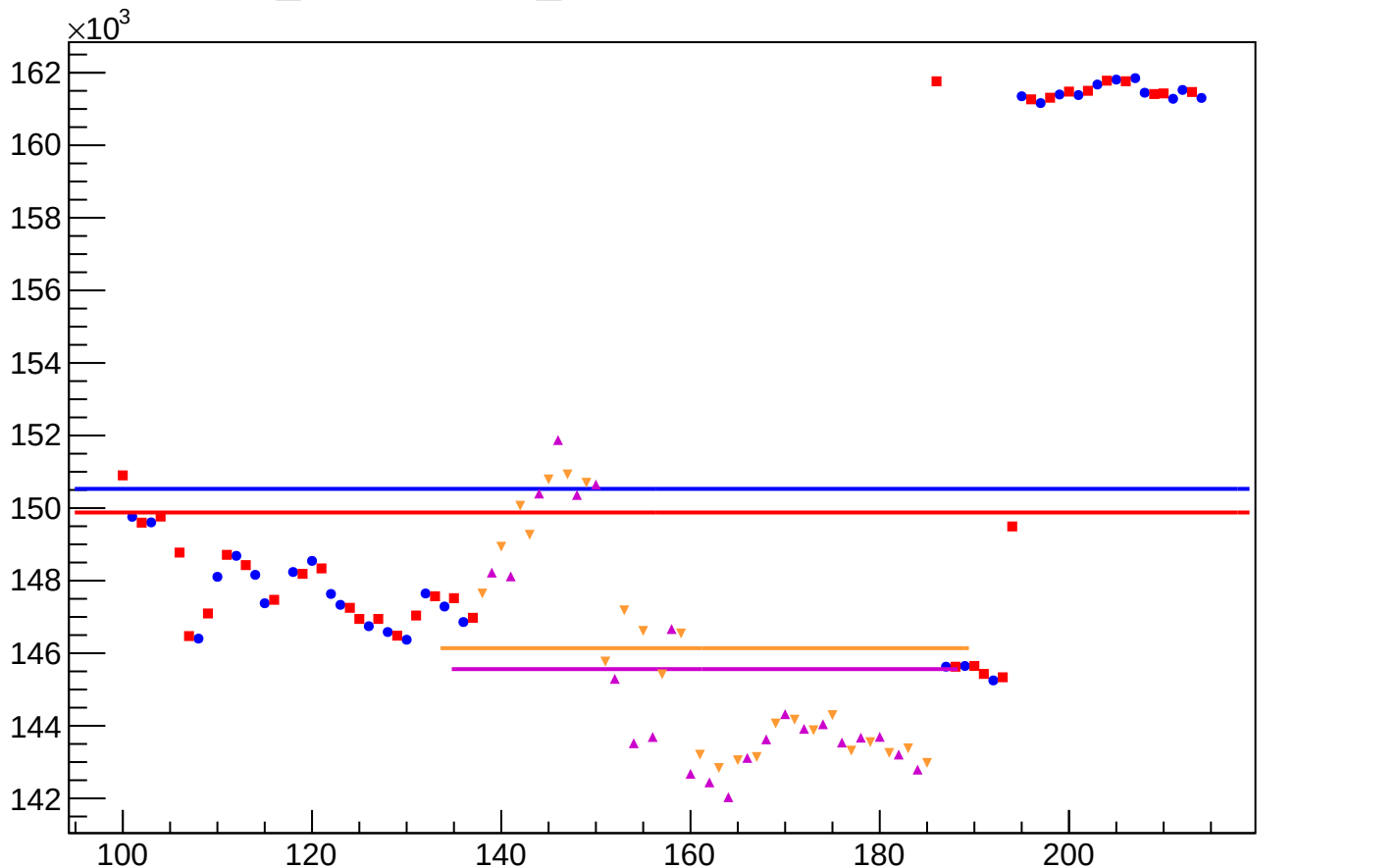
Right: 156.547+/-0.022 χ^2/NDF : 15640938.6/64

In: 180.041+/-0.024 χ^2/NDF :9939811.1/53

Out: 174.520+/-0.023 χ^2/NDF :10703532.3/58

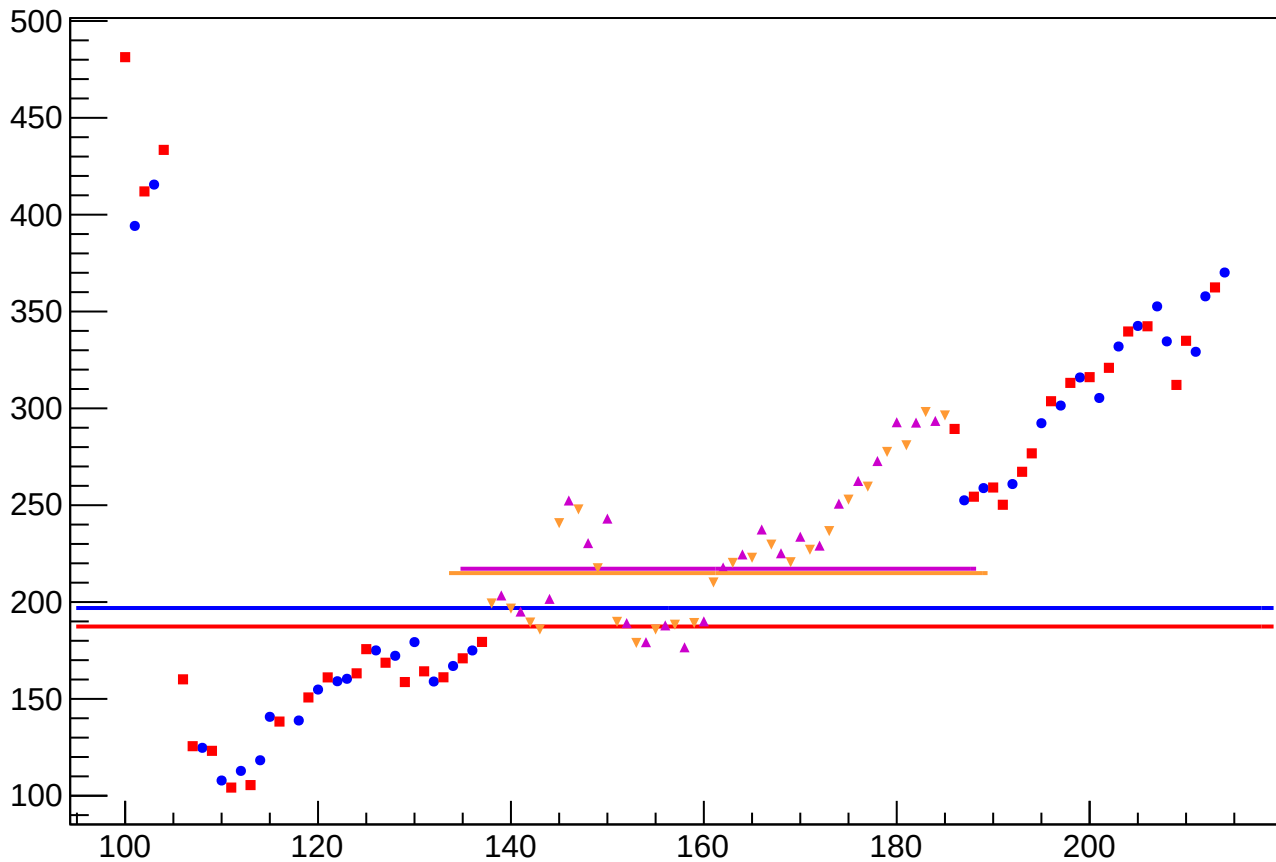
All: 177.140+/-0.016 χ^2/NDF : 20671628.9/11

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150529.832 $\pm$ 0.053	χ^2 /NDF: 12365214074.9/30	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 150183.932 $\pm$ 0.036	χ^2 /NDF: 23772974296.0/1
Right Out: 149879.342 $\pm$ 0.050	χ^2 /NDF: 11327491454.3/33	In: 148051.881 $\pm$ 0.037	χ^2 /NDF: 19811037255.1/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148054.795 $\pm$ 0.036	χ^2 /NDF: 16791557241.9/1
		All: 148053.415 $\pm$ 0.026	χ^2 /NDF: 366025976.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 196.924 $\pm$ 0.037 χ^2 /NDF: 5235865.8/30

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 187.368 $\pm$ 0.035 χ^2 /NDF: 5481134.2/33

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2 /NDF: 1495200.1/47

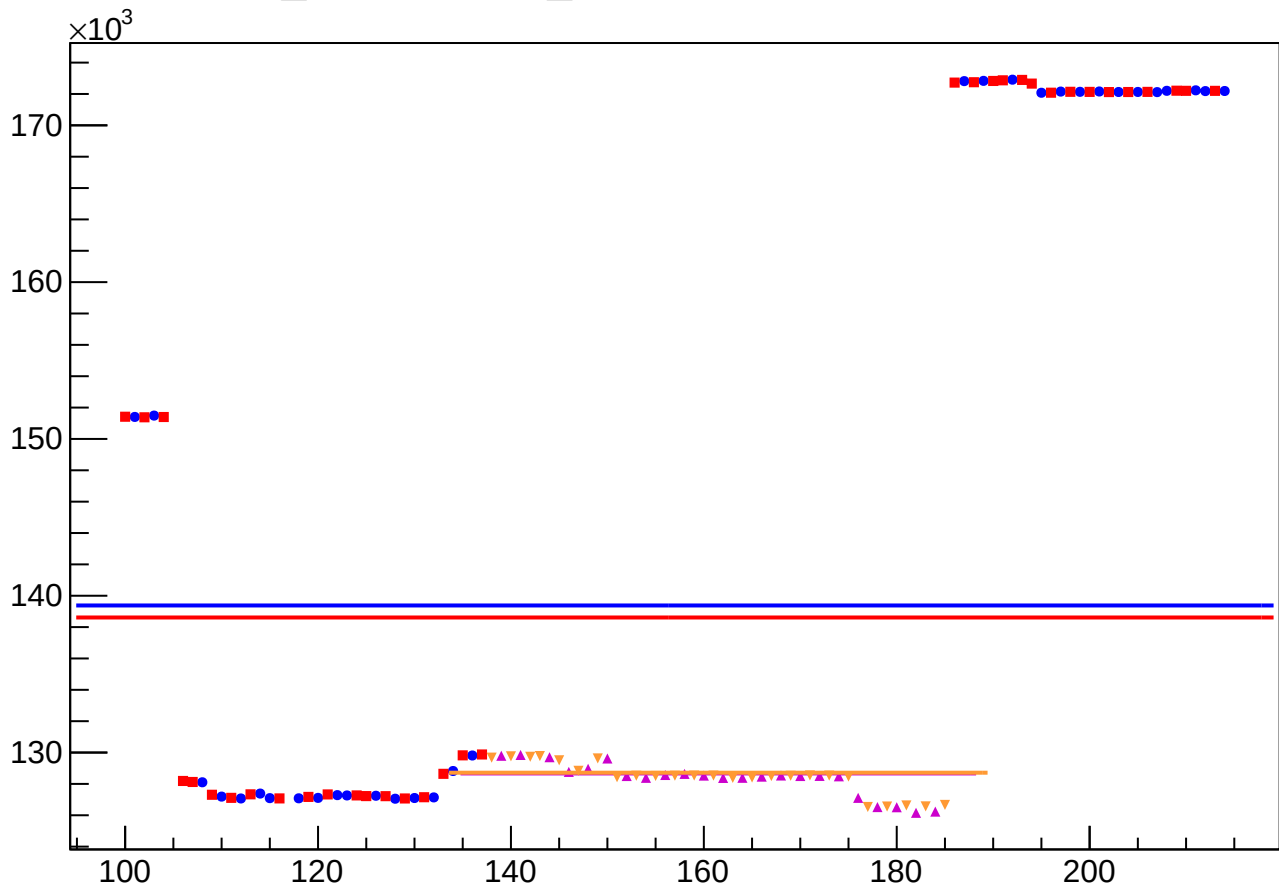
Right: 191.842 $\pm$ 0.026 χ^2 /NDF: 10751646.2/64

In: 207.040 $\pm$ 0.027 χ^2 /NDF: 6147036.6/53

Out: 200.821 $\pm$ 0.025 χ^2 /NDF: 6510259.5/58

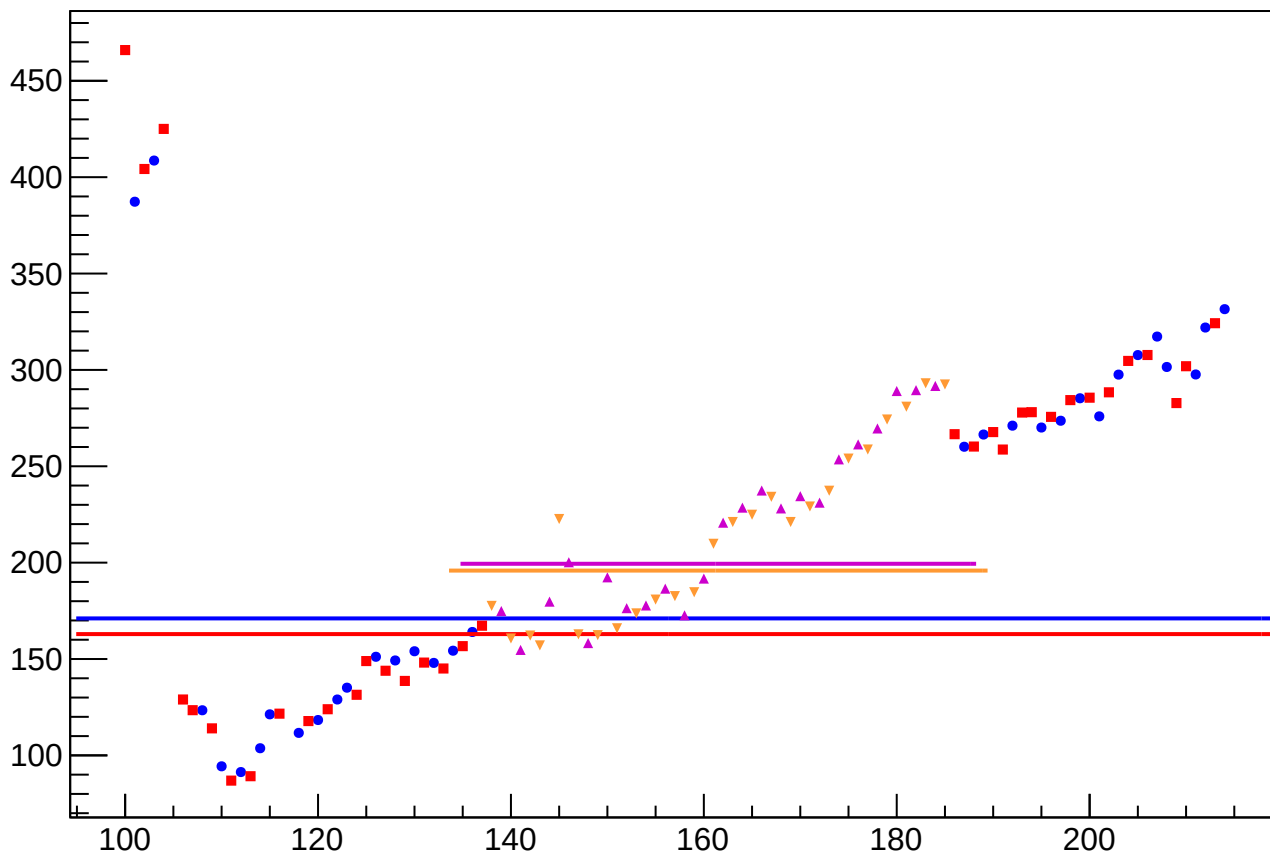
All: 203.767 $\pm$ 0.018 χ^2 /NDF: 12686276.4/11

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139379.694+/-0.047	χ^2/NDF : 175590108362.4/30	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 138972.514+/-0.032	χ^2/NDF : 366518663743
Right Out: 138612.911+/-0.044	χ^2/NDF : 190785621153.4/33	In: 134275.604+/-0.034	χ^2/NDF : 200955034034.1
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 133966.678+/-0.032	χ^2/NDF : 214973794241.1
		All: 134112.588+/-0.023	χ^2/NDF : 415972864

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 171.064+/-0.033 χ^2/NDF : 6100724.3/30

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 162.929+/-0.031 χ^2/NDF : 6445843.5/33

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

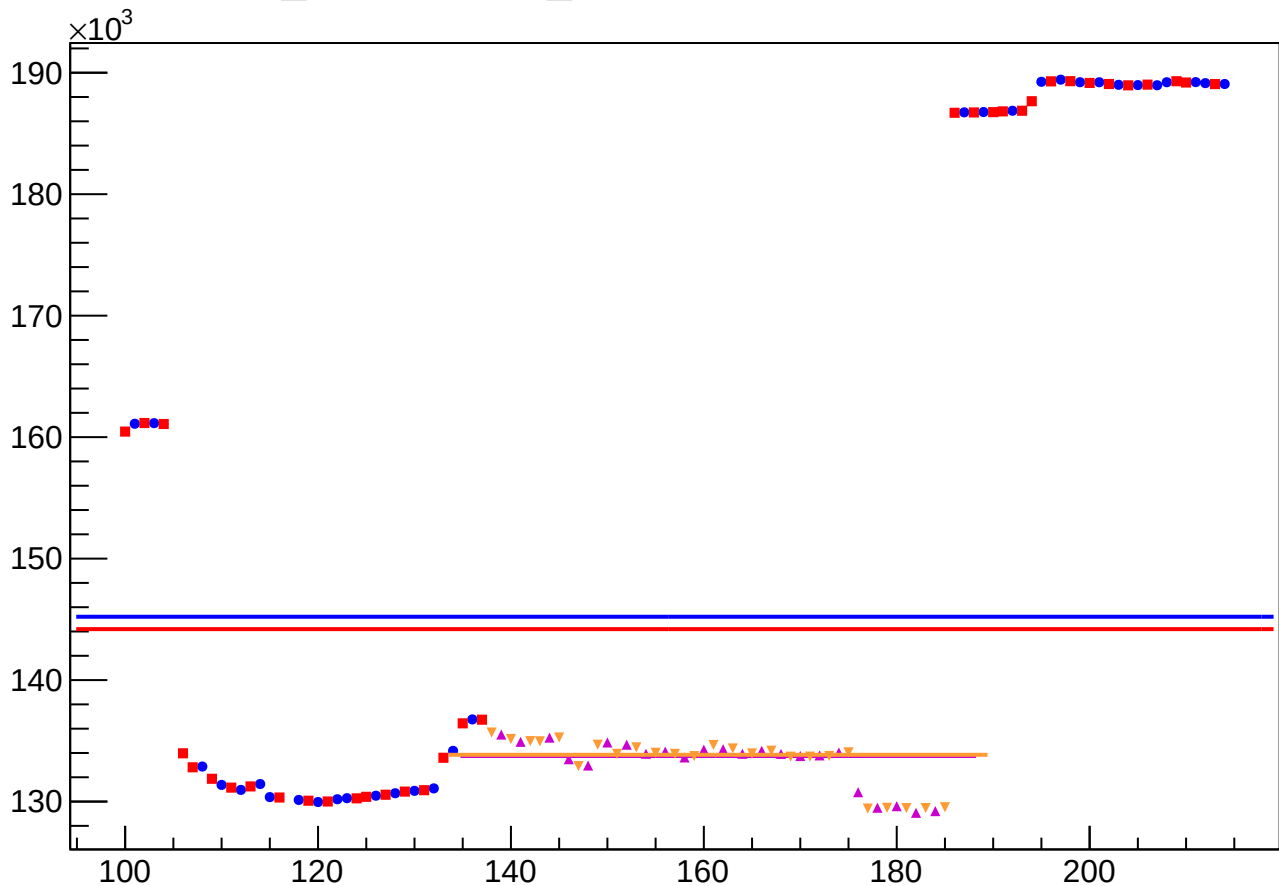
Right: 166.744+/-0.023 χ^2/NDF : 12578742.1/64

In: 184.571+/-0.024 χ^2/NDF :7617021.8/53

Out: 178.397+/-0.023 χ^2/NDF :8287653.4/58

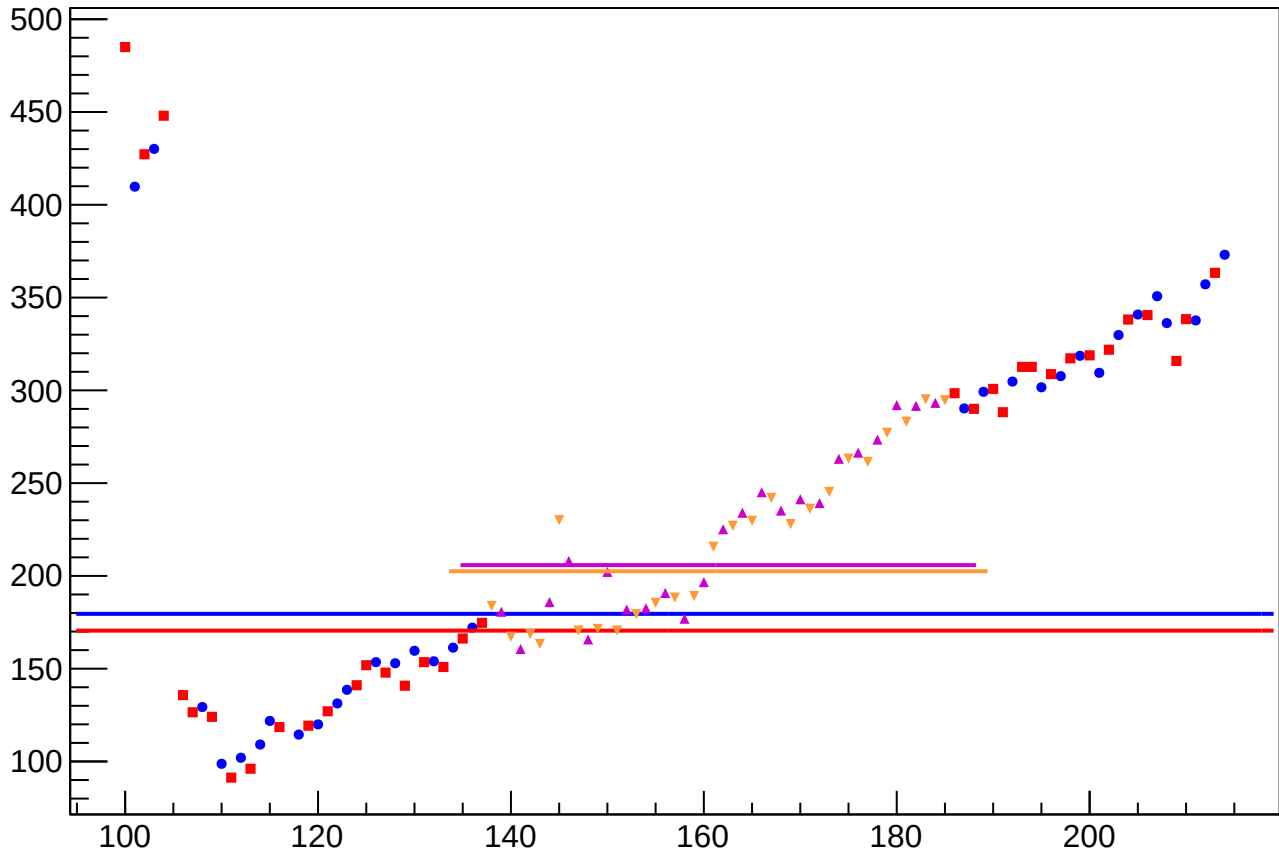
All: 181.313+/-0.016 χ^2/NDF : 15939850.6/11

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 145214.380+/-0.050 χ^2/NDF : 238818596863.4/30
 Left Out: 133850.586+/-0.048 χ^2/NDF : 1080107831.1/24
 Right Out: 144194.974+/-0.047 χ^2/NDF : 253957296400.0/33
 Left In: 133749.630+/-0.051 χ^2/NDF : 954069486.7/22
 Left: 133802.452+/-0.035 χ^2/NDF : 2036267179.3/4
 Right: 144671.836+/-0.034 χ^2/NDF : 493000508145
 In: 139584.187+/-0.035 χ^2/NDF : 265987320724.1
 Out: 139208.302+/-0.033 χ^2/NDF : 278872372808.
 All: 139385.780+/-0.024 χ^2/NDF : 544919208

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 179.552 $\pm$ 0.035 χ^2 /NDF: 6707755.0/30

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 170.510 $\pm$ 0.033 χ^2 /NDF: 7100442.0/33

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

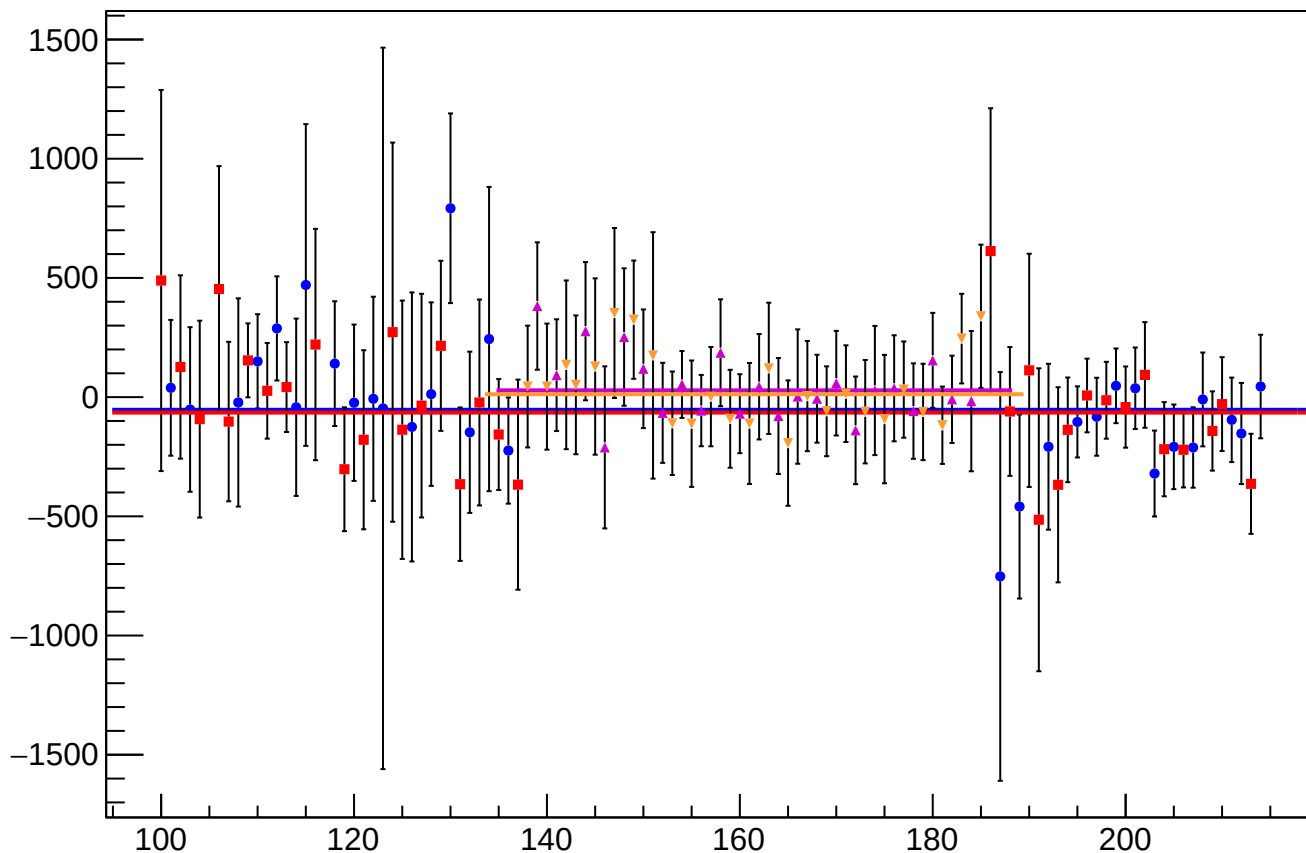
Right: 174.740 $\pm$ 0.024 χ^2 /NDF: 13843539.2/64

In: 192.446 $\pm$ 0.025 χ^2 /NDF:8077058.0/53

Out: 185.945 $\pm$ 0.024 χ^2 /NDF:8769094.2/58

All: 189.014 $\pm$ 0.017 χ^2 /NDF: 16881761.6/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -53.095 ± 43.363 $\chi^2/\text{NDF}: 17.4/30$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -64.854 ± 43.068 $\chi^2/\text{NDF}: 15.1/33$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

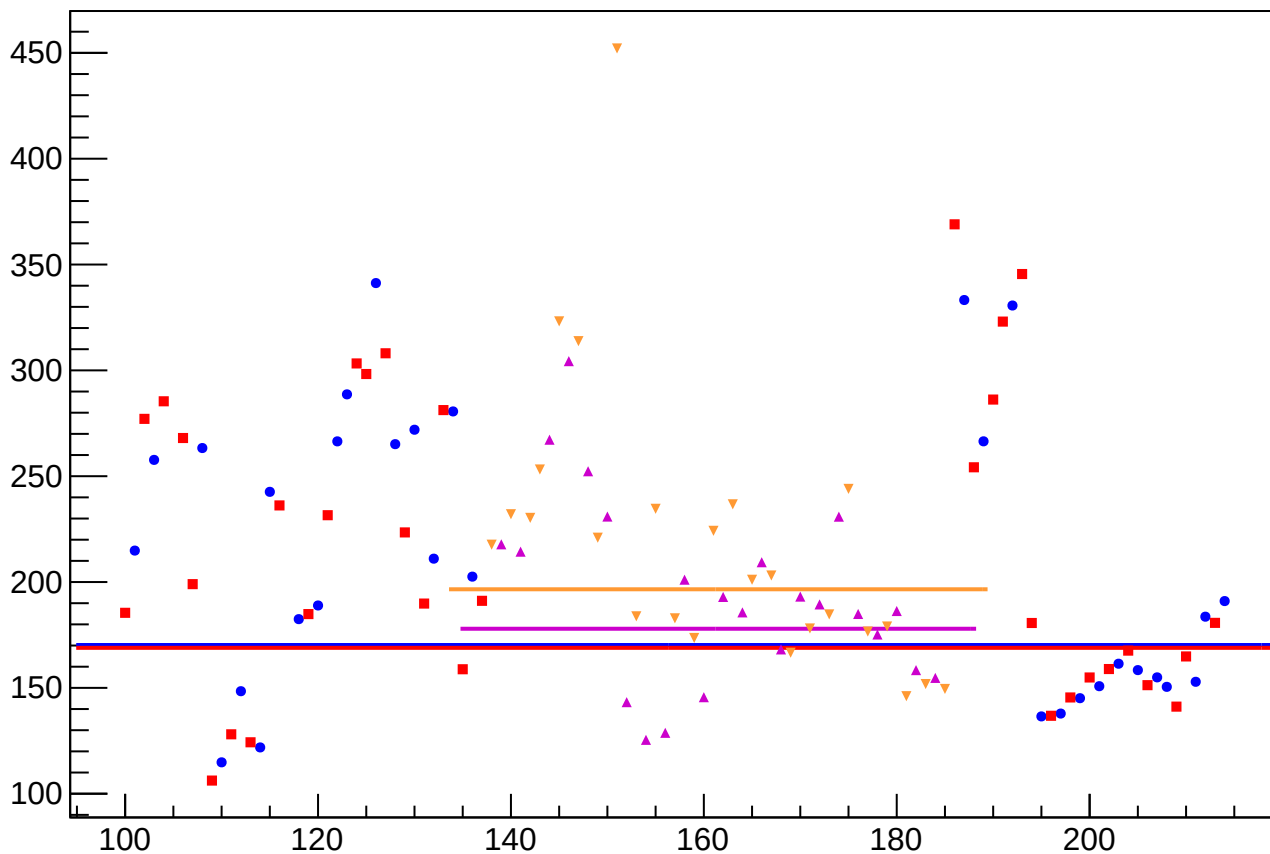
Right: -59.015 ± 30.558 $\chi^2/\text{NDF}: 32.6/64$

In: -13.549 ± 31.120 $\chi^2/\text{NDF}: 25.8/53$

Out: -30.122 ± 31.915 $\chi^2/\text{NDF}: 25.2/58$

All: -21.626 ± 22.281 $\chi^2/\text{NDF}: 51.1/112$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 170.244+/-0.031 χ^2/NDF : 2168763.2/30

Left Out: 196.576+/-0.034 χ^2/NDF :1778719.0/24

Right Out: 168.917+/-0.030 χ^2/NDF : 2845861.9/33

Left In: 177.933+/-0.032 χ^2/NDF :1605780.8/22

Left: 186.680+/-0.023 χ^2/NDF : 3547823.4/47

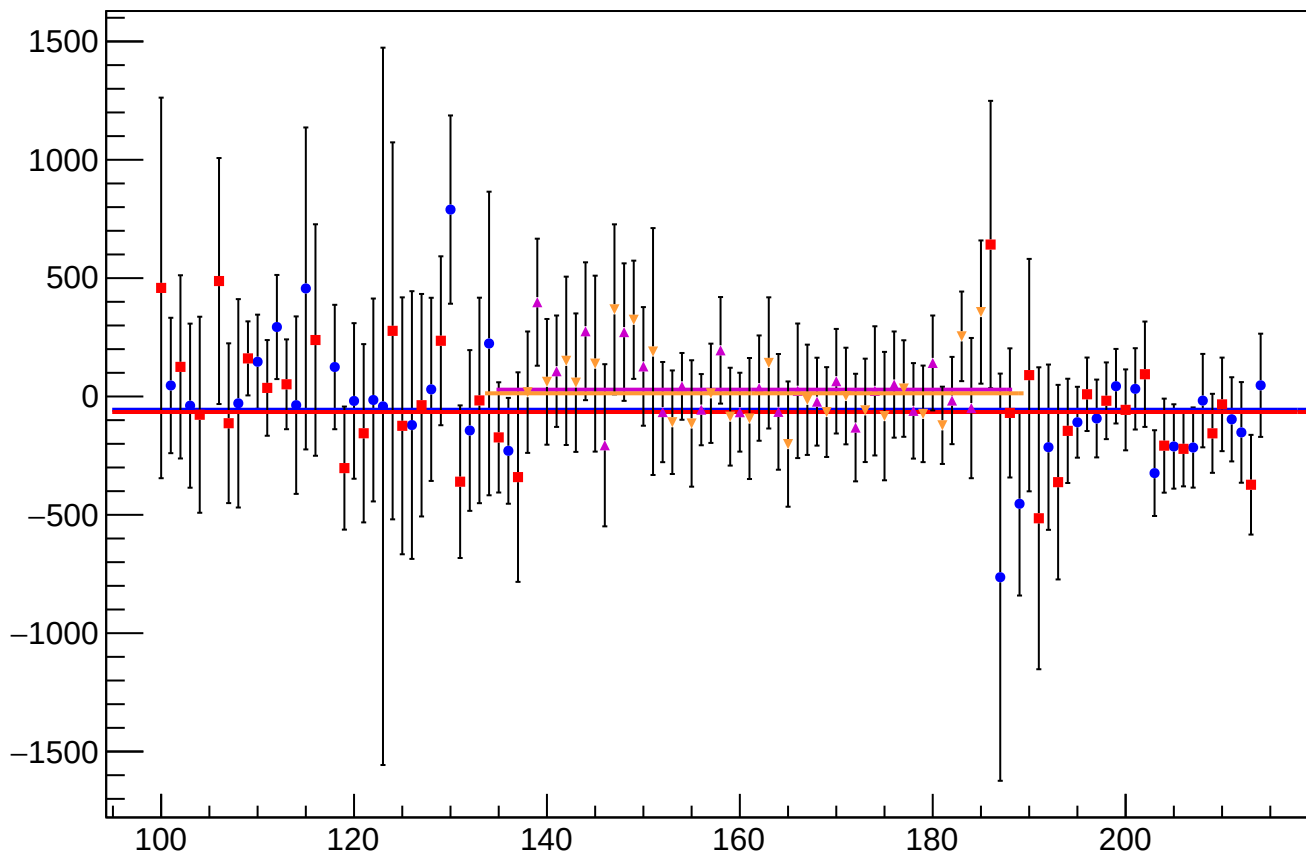
Right: 169.576+/-0.022 χ^2/NDF : 5015568.5/64

In: 173.973+/-0.022 χ^2/NDF :3805035.0/53

Out: 181.388+/-0.023 χ^2/NDF :4996487.8/58

All: 177.587+/-0.016 χ^2/NDF : 8856857.4/112

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -55.976 ± 43.559 χ^2/NDF : 17.3/30

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -65.579 ± 43.278 χ^2/NDF : 15.5/33

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

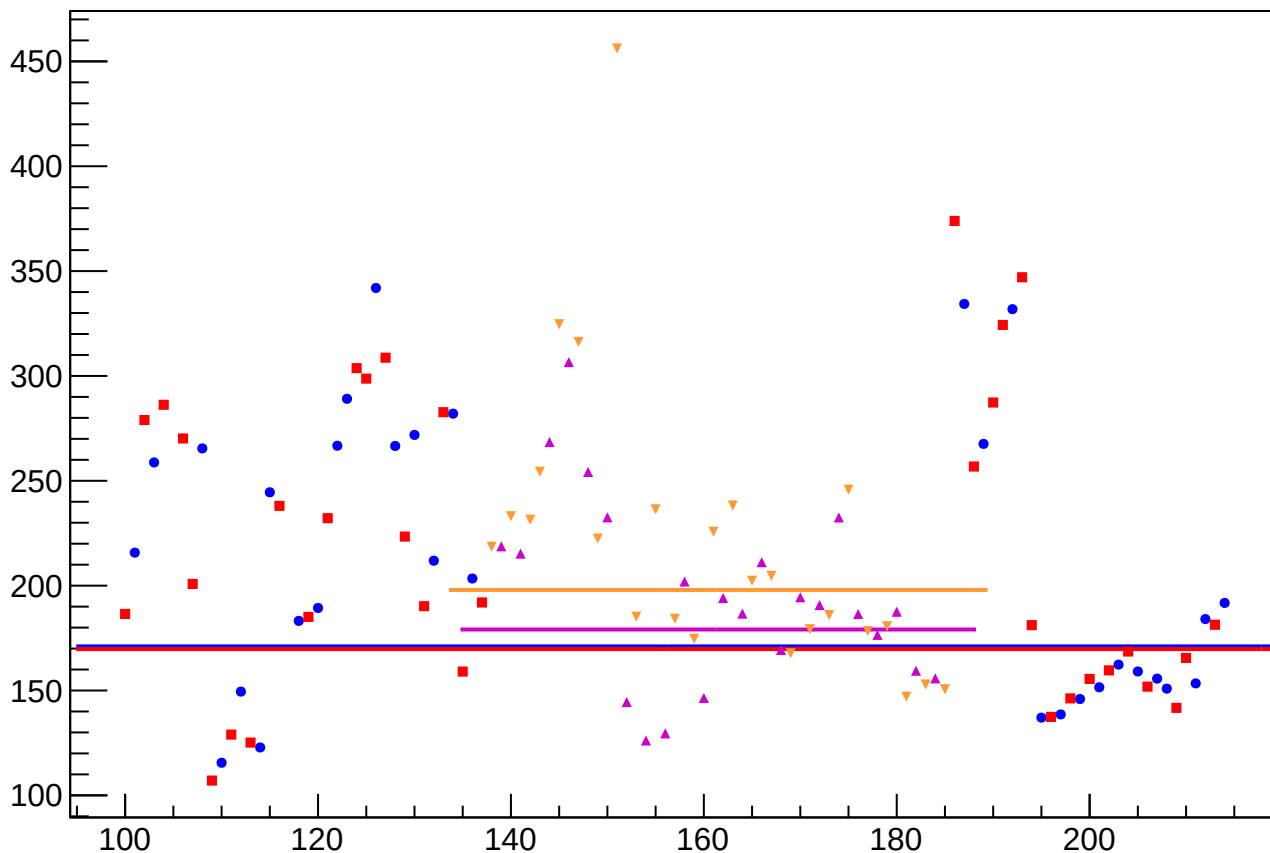
Right: -60.809 ± 30.701 χ^2/NDF : 32.9/64

In: -14.945 ± 31.291 χ^2/NDF : 26.0/53

Out: -30.055 ± 32.101 χ^2/NDF : 26.0/58

All: -22.307 ± 22.407 χ^2/NDF : 52.1/112

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 171.037 $\pm$ 0.031 χ^2 /NDF: 2160252.9/30

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 169.747 $\pm$ 0.031 χ^2 /NDF: 2841695.1/33

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

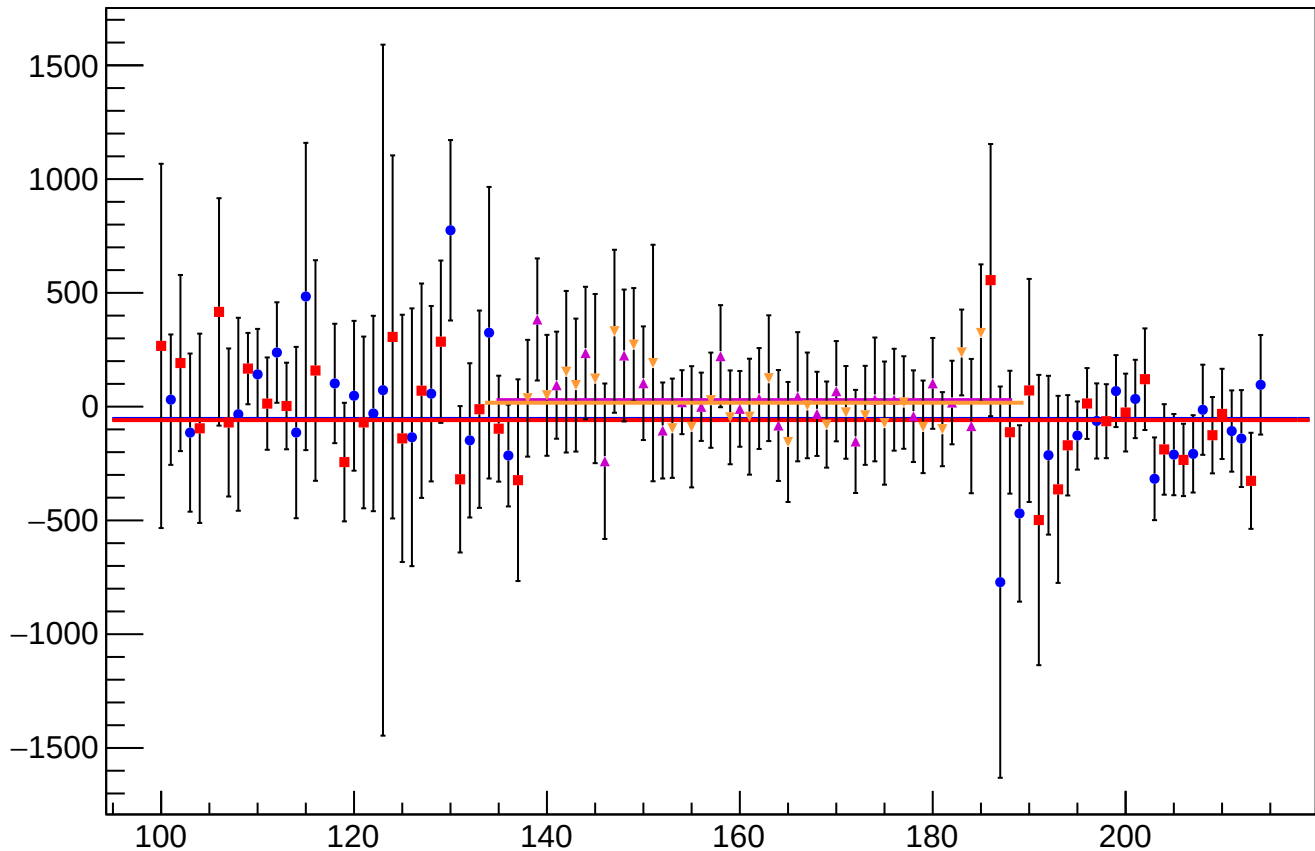
Right: 170.388 $\pm$ 0.022 χ^2 /NDF: 5002830.0/64

In: 174.934 $\pm$ 0.022 χ^2 /NDF:3798449.7/53

Out: 182.435 $\pm$ 0.023 χ^2 /NDF:4998355.2/58

All: 178.589 $\pm$ 0.016 χ^2 /NDF: 8852796.3/112

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -54.073 ± 43.645 $\chi^2/\text{NDF}: 17.0/30$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -59.157 ± 43.308 $\chi^2/\text{NDF}: 13.6/33$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

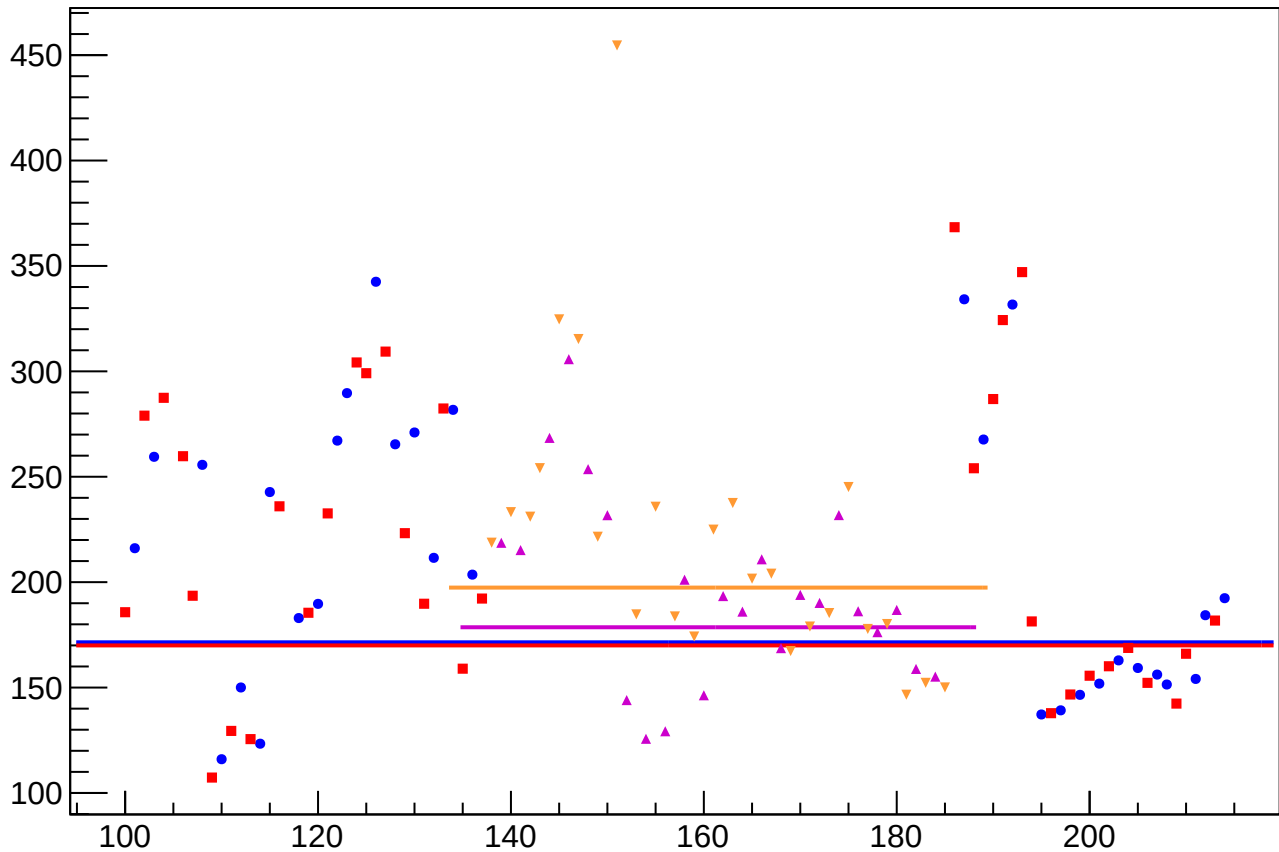
Right: -56.635 ± 30.742 $\chi^2/\text{NDF}: 30.5/64$

In: -13.844 ± 31.282 $\chi^2/\text{NDF}: 24.8/53$

Out: -24.711 ± 32.075 $\chi^2/\text{NDF}: 22.0/58$

All: -19.141 ± 22.395 $\chi^2/\text{NDF}: 47.0/112$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.461 $\pm$ 0.031 χ^2 /NDF: 2127789.2/30

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 169.994 $\pm$ 0.031 χ^2 /NDF: 2794142.1/33

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

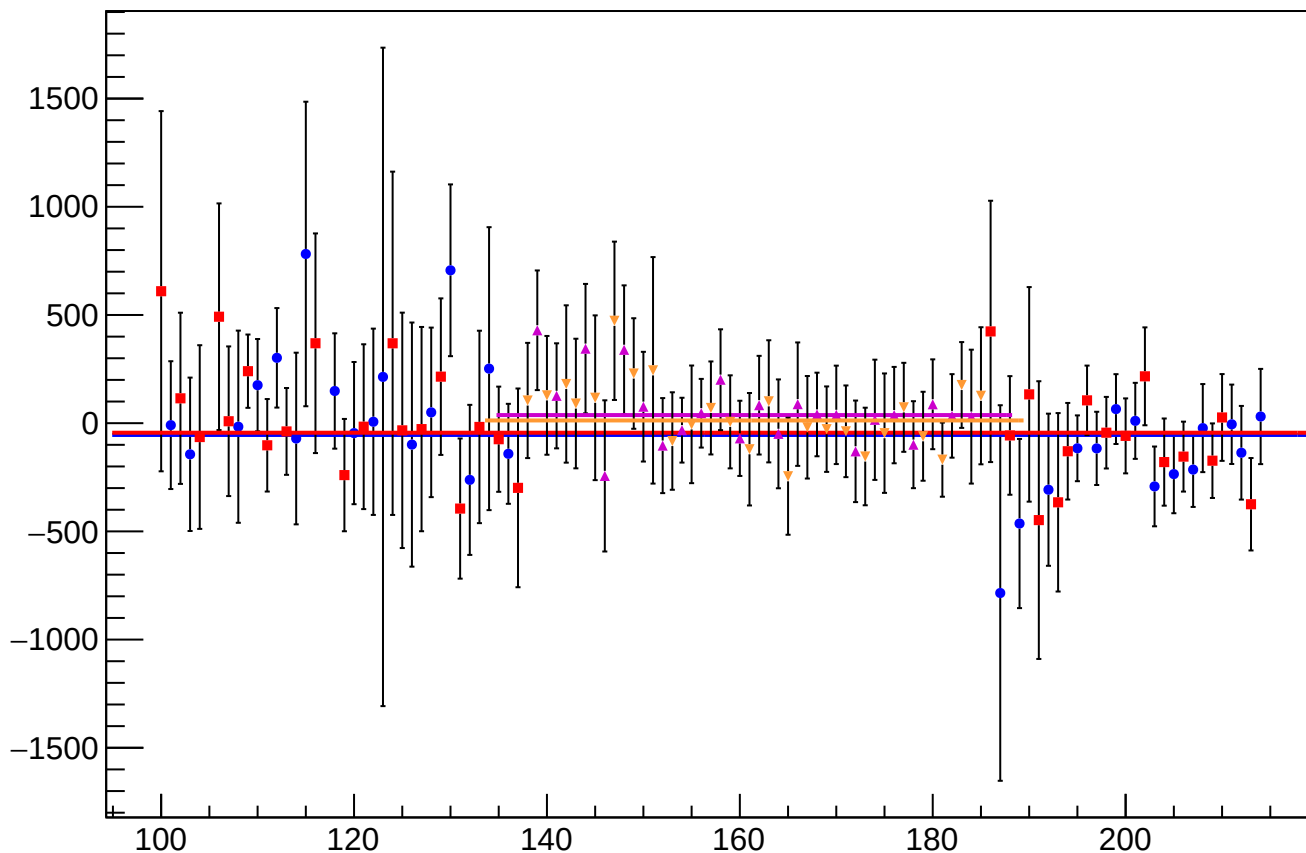
Right: 170.722 $\pm$ 0.022 χ^2 /NDF: 4923069.7/64

In: 174.933 $\pm$ 0.022 χ^2 /NDF:3762818.9/53

Out: 182.377 $\pm$ 0.023 χ^2 /NDF:4936556.1/58

All: 178.562 $\pm$ 0.016 χ^2 /NDF: 8754576.9/112

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -54.406 ± 44.595 $\chi^2/\text{NDF}: 17.4/30$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -44.115 ± 44.451 $\chi^2/\text{NDF}: 16.4/33$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

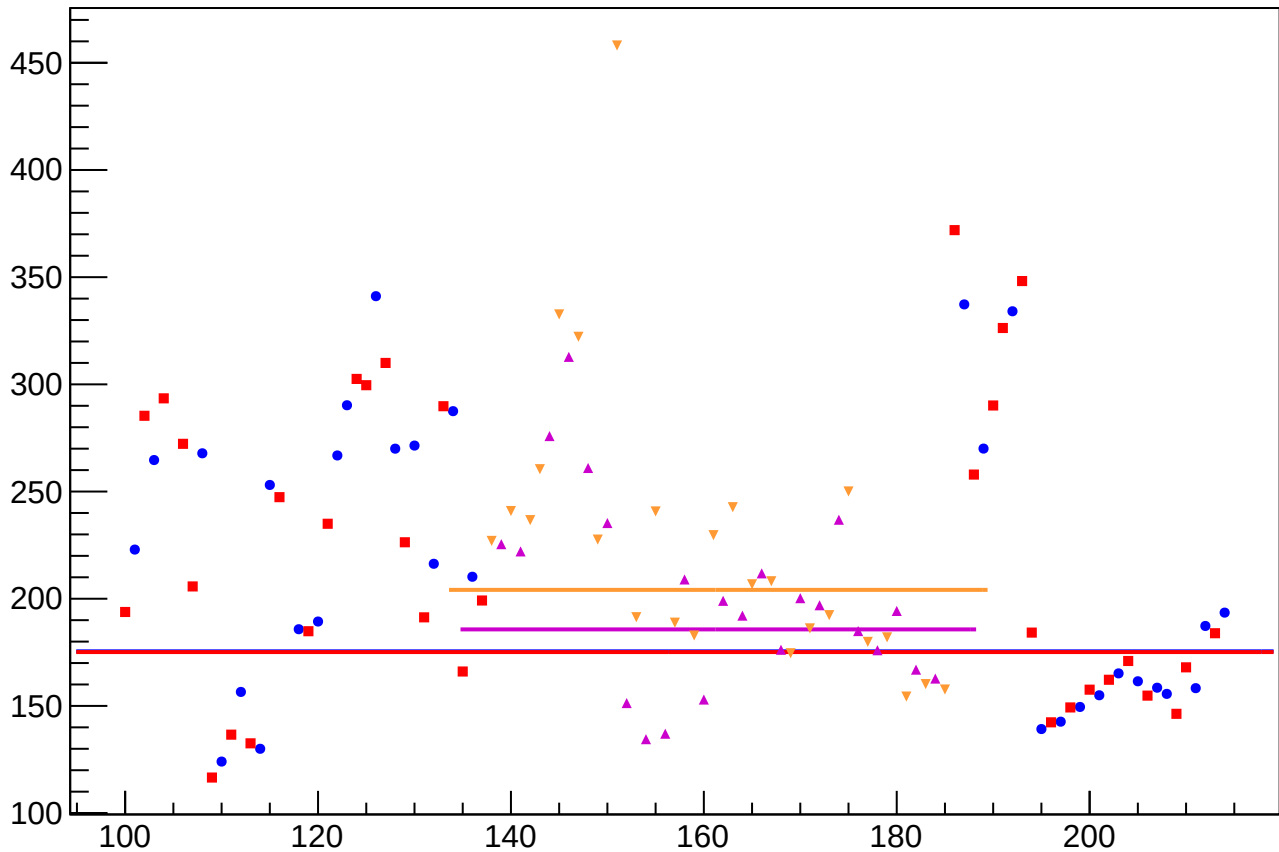
Right: -49.244 ± 31.482 $\chi^2/\text{NDF}: 33.8/64$

In: -10.372 ± 32.179 $\chi^2/\text{NDF}: 27.1/53$

Out: -18.636 ± 32.996 $\chi^2/\text{NDF}: 24.6/58$

All: -14.401 ± 23.037 $\chi^2/\text{NDF}: 51.7/112$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.455 ± 0.032 χ^2/NDF : 2046706.6/30

Left Out: 204.132 ± 0.035 χ^2/NDF : 1672287.6/24

Right Out: 175.122 ± 0.031 χ^2/NDF : 2611870.9/33

Left In: 185.694 ± 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 ± 0.024 χ^2/NDF : 3268347.9/47

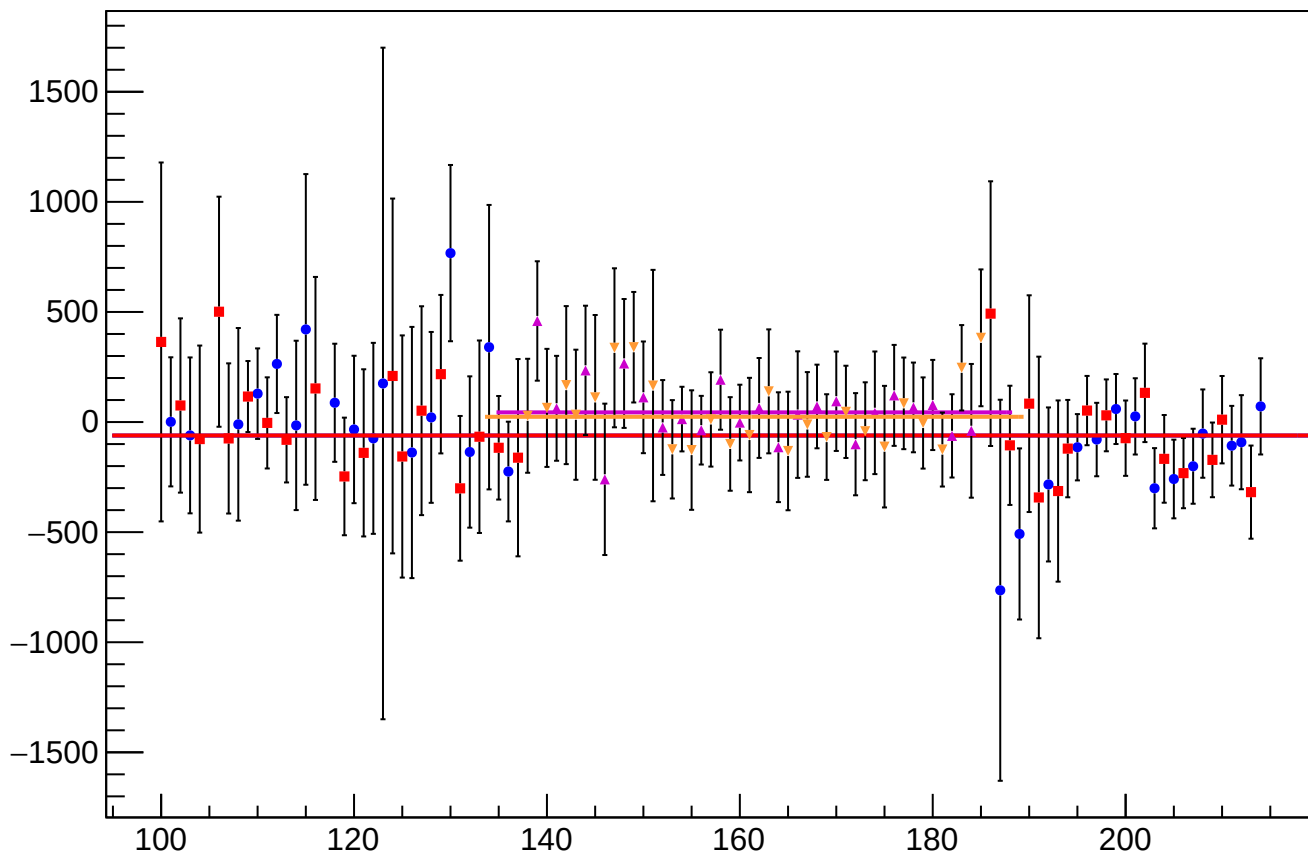
Right: 175.288 ± 0.022 χ^2/NDF : 4658633.4/64

In: 180.362 ± 0.023 χ^2/NDF : 3545008.9/53

Out: 188.147 ± 0.023 χ^2/NDF : 4666633.7/58

All: 184.157 ± 0.016 χ^2/NDF : 8268701.7/112

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -61.345 $\pm$ 44.041 χ^2 /NDF: 16.6/30

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -60.955 $\pm$ 43.767 χ^2 /NDF: 11.6/33

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

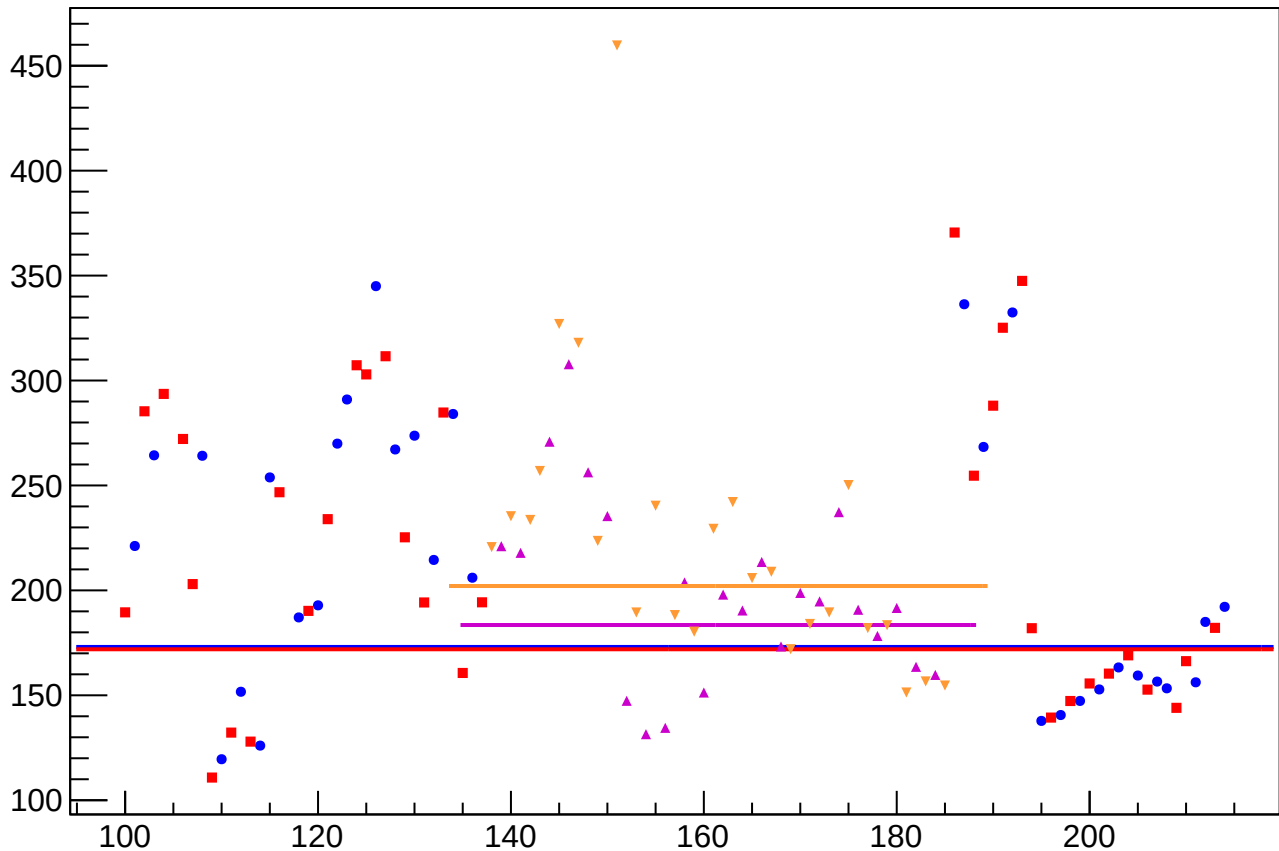
Right: -61.149 $\pm$ 31.044 χ^2 /NDF: 28.2/64

In: -10.952 $\pm$ 31.805 χ^2 /NDF:25.9/53

Out: -23.138 $\pm$ 32.577 χ^2 /NDF:21.8/58

All: -16.899 $\pm$ 22.758 χ^2 /NDF: 47.7/112

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 173.041 $\pm$ 0.031 χ^2 /NDF: 2130348.9/30

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 171.931 $\pm$ 0.031 χ^2 /NDF: 2772824.7/33

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

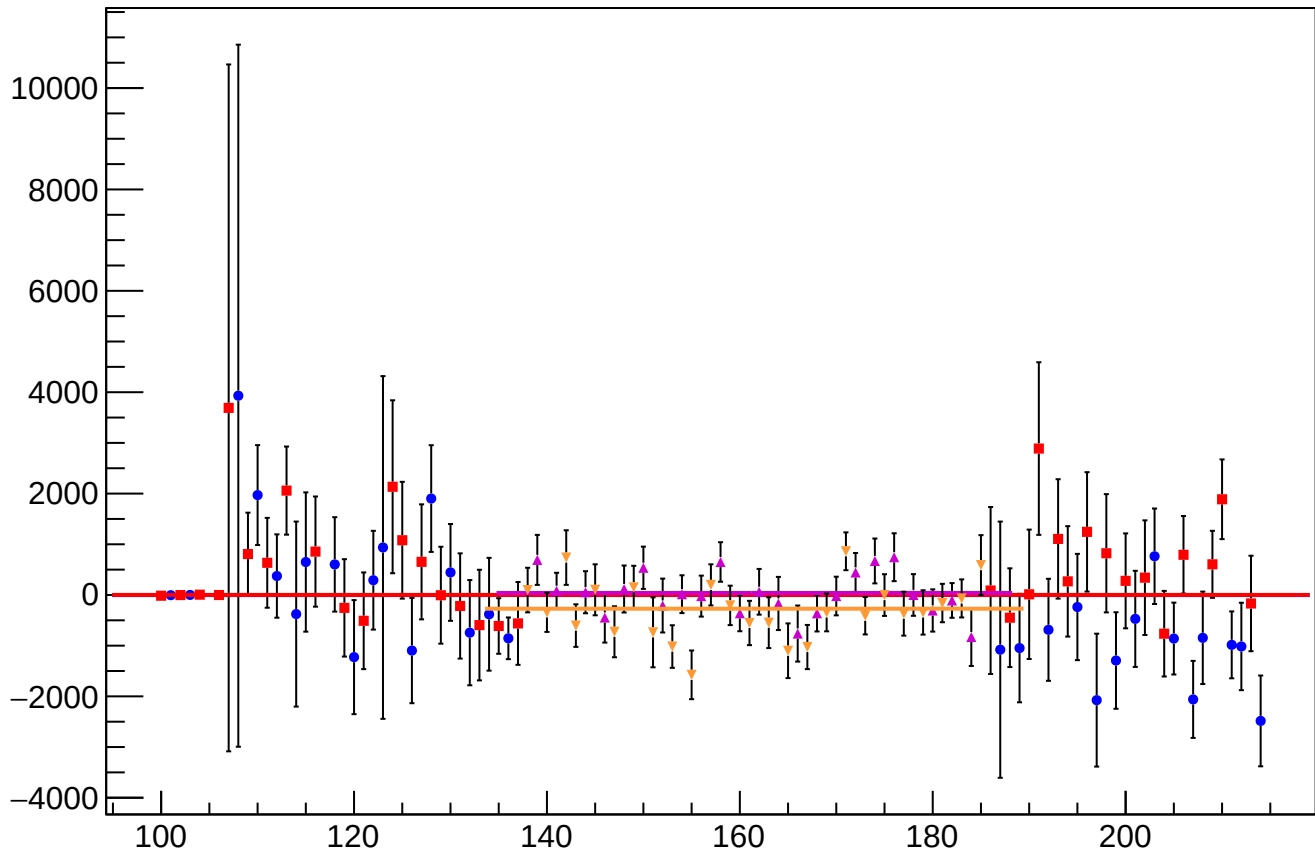
Right: 172.482 $\pm$ 0.022 χ^2 /NDF: 4903812.5/64

In: 178.044 $\pm$ 0.022 χ^2 /NDF:3667685.7/53

Out: 185.377 $\pm$ 0.023 χ^2 /NDF:4888865.9/58

All: 181.622 $\pm$ 0.016 χ^2 /NDF: 8608426.3/112

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.617 ± 2.251 χ^2/NDF : 45.3/30

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.762 ± 2.111 χ^2/NDF : 33.5/33

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

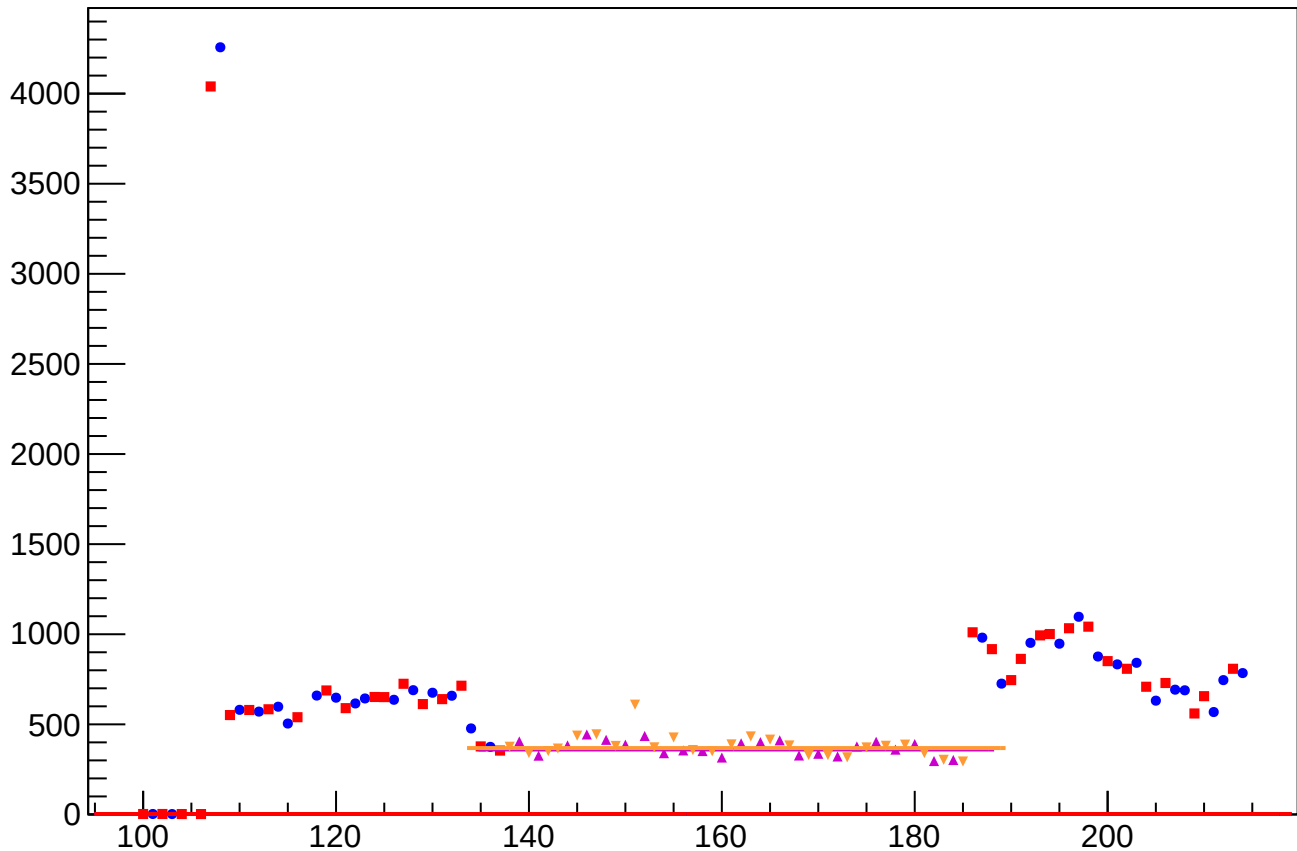
Right: -0.351 ± 1.540 χ^2/NDF : 79.4/64

In: -1.590 ± 2.251 χ^2/NDF : 65.8/53

Out: 0.602 ± 2.110 χ^2/NDF : 81.3/58

All: -0.424 ± 1.539 χ^2/NDF : 147.6/112

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.520+/-0.002 χ^2/NDF : 30466569.0/30

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.491+/-0.001 χ^2/NDF : 31159386.0/33

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

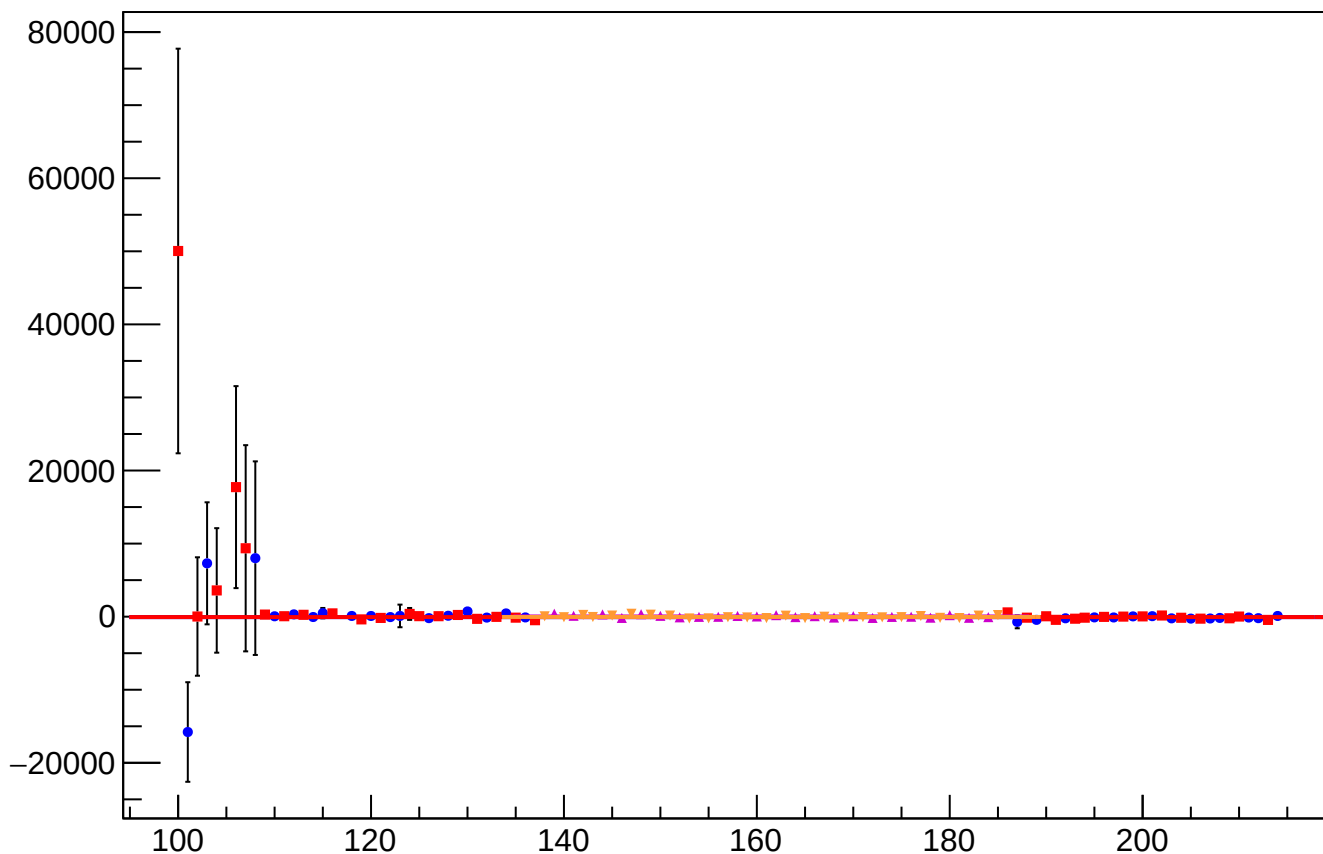
Right: 2.505+/-0.001 χ^2/NDF : 61626134.2/64

In: 2.756+/-0.002 χ^2/NDF : 64115934.7/53

Out: 2.707+/-0.001 χ^2/NDF : 67165372.7/58

All: 2.729+/-0.001 χ^2/NDF : 131281813.1/112

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -61.580 ± 47.966 $\chi^2/\text{NDF}: 21.9/30$

Left Out: -38.013 ± 49.628 $\chi^2/\text{NDF}: 9.3/24$

Right Out: -55.982 ± 48.417 $\chi^2/\text{NDF}: 24.1/33$

Left In: 28.205 ± 48.167 $\chi^2/\text{NDF}: 9.2/22$

Left: -3.915 ± 34.564 $\chi^2/\text{NDF}: 19.4/47$

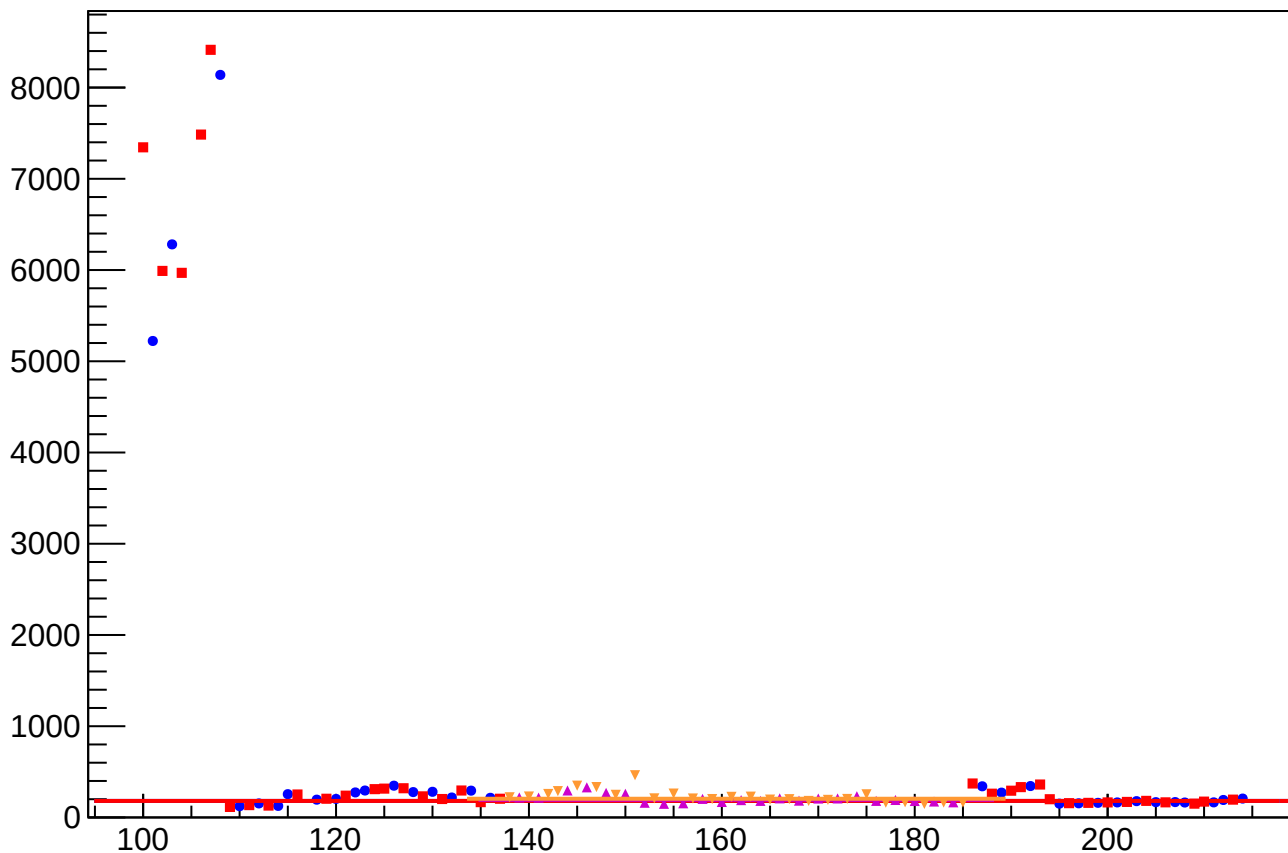
Right: -58.807 ± 34.075 $\chi^2/\text{NDF}: 46.0/64$

In: -16.876 ± 33.988 $\chi^2/\text{NDF}: 32.8/53$

Out: -47.220 ± 34.656 $\chi^2/\text{NDF}: 33.5/58$

All: -31.752 ± 24.266 $\chi^2/\text{NDF}: 66.7/112$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 181.157+/-0.034 χ^2/NDF : 4563296.5/30

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 181.063+/-0.034 χ^2/NDF : 5425244.1/33

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

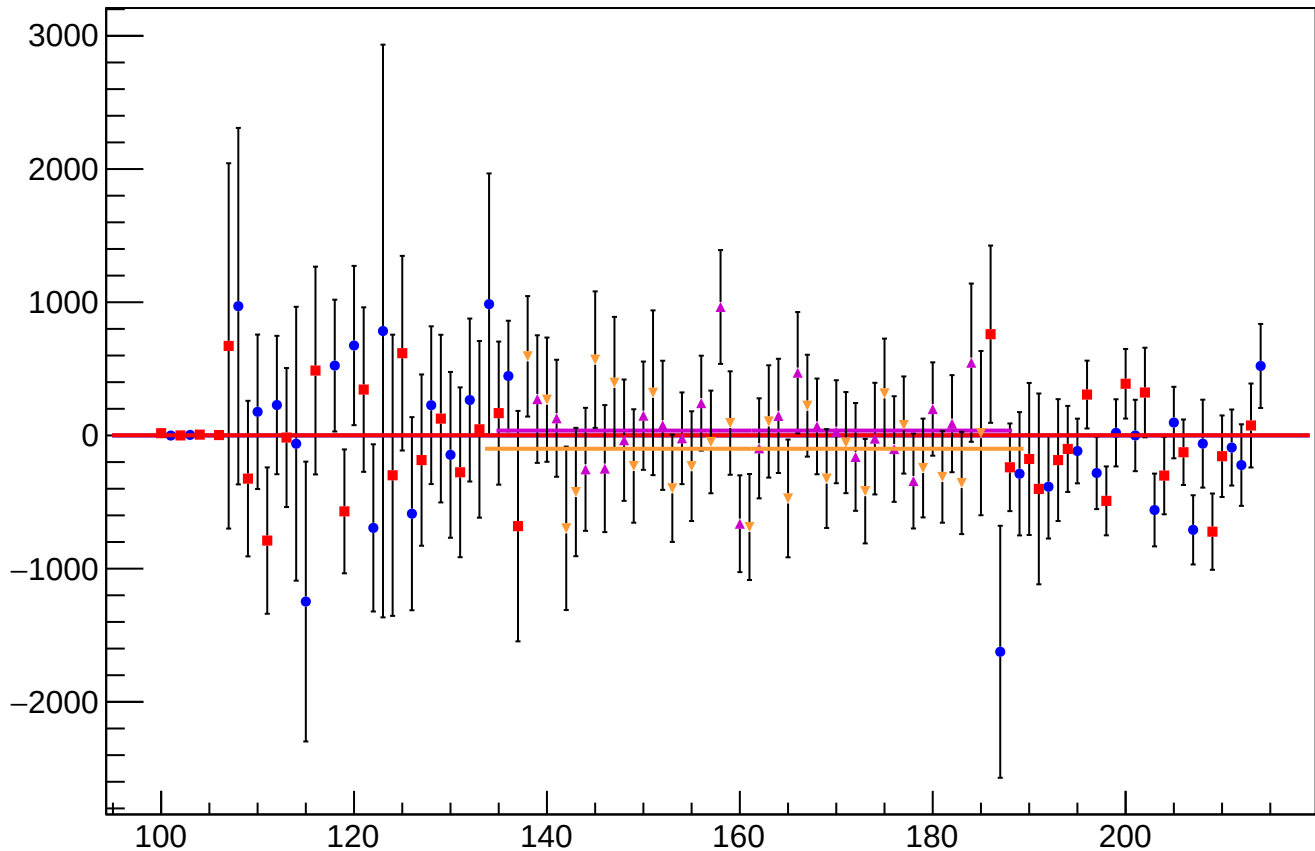
Right: 181.110+/-0.024 χ^2/NDF : 9988544.4/64

In: 187.255+/-0.024 χ^2/NDF :5800395.5/53

Out: 192.749+/-0.025 χ^2/NDF :7620214.8/58

All: 189.949+/-0.017 χ^2/NDF : 13446229.5/117

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.220 $\pm$ 1.736 χ^2/NDF : 30.8/30

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.287 $\pm$ 1.622 χ^2/NDF : 28.1/33

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

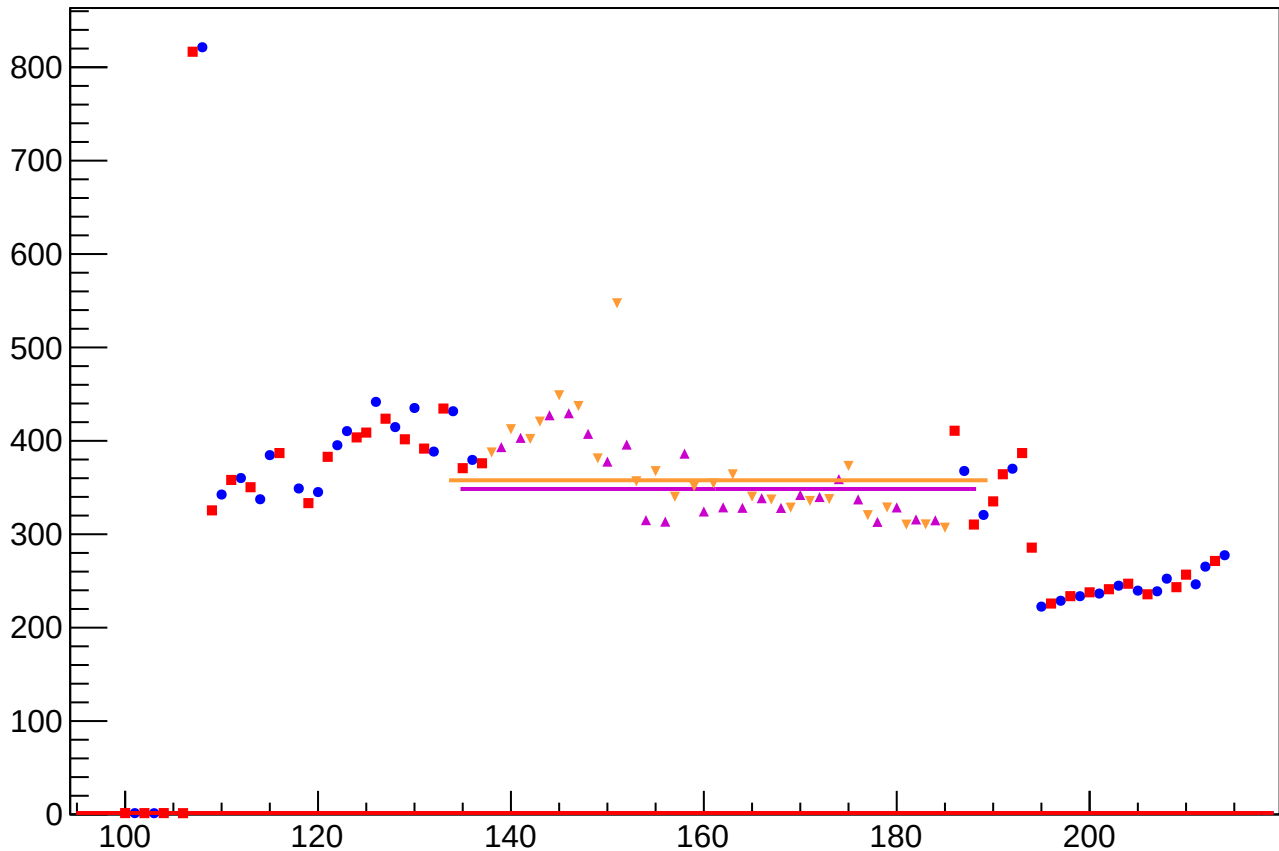
Right: 0.585 $\pm$ 1.185 χ^2/NDF : 59.3/64

In: -0.205 $\pm$ 1.736 χ^2/NDF :44.5/53

Out: 1.250 $\pm$ 1.622 χ^2/NDF :45.3/58

All: 0.572 $\pm$ 1.185 χ^2/NDF : 90.2/112

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.570+/-0.001 χ^2/NDF : 30733527.3/30

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.550+/-0.001 χ^2/NDF : 30866512.3/33

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

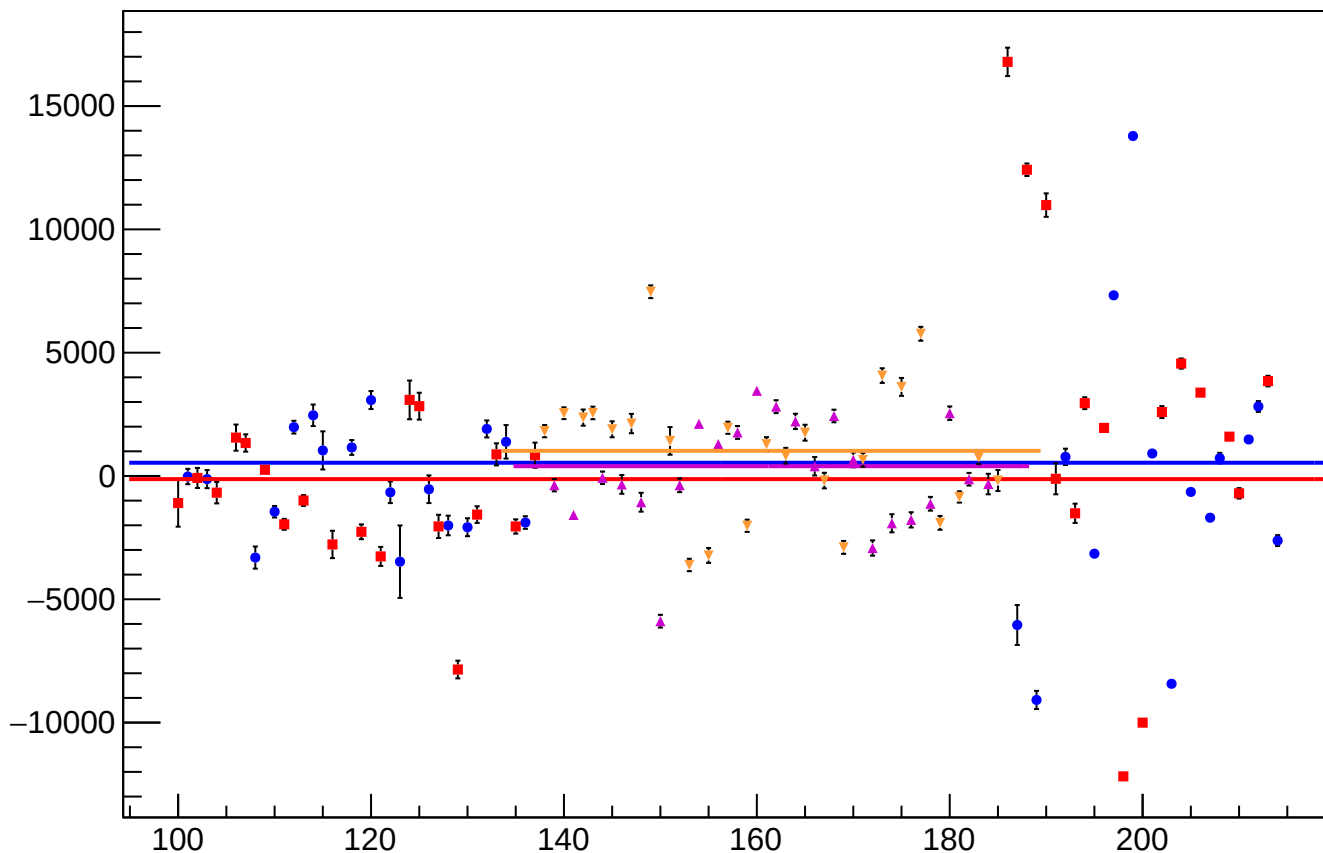
Right: 1.560+/-0.001 χ^2/NDF : 61600183.0/64

In: 1.716+/-0.001 χ^2/NDF : 64646596.4/53

Out: 1.683+/-0.001 χ^2/NDF : 67205872.0/58

All: 1.698+/-0.001 χ^2/NDF : 131852870.6/112

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 536.461+/-47.605 χ^2/NDF : 11157.9/30

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: -127.454+/-47.145 χ^2/NDF : 13691.2/33

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

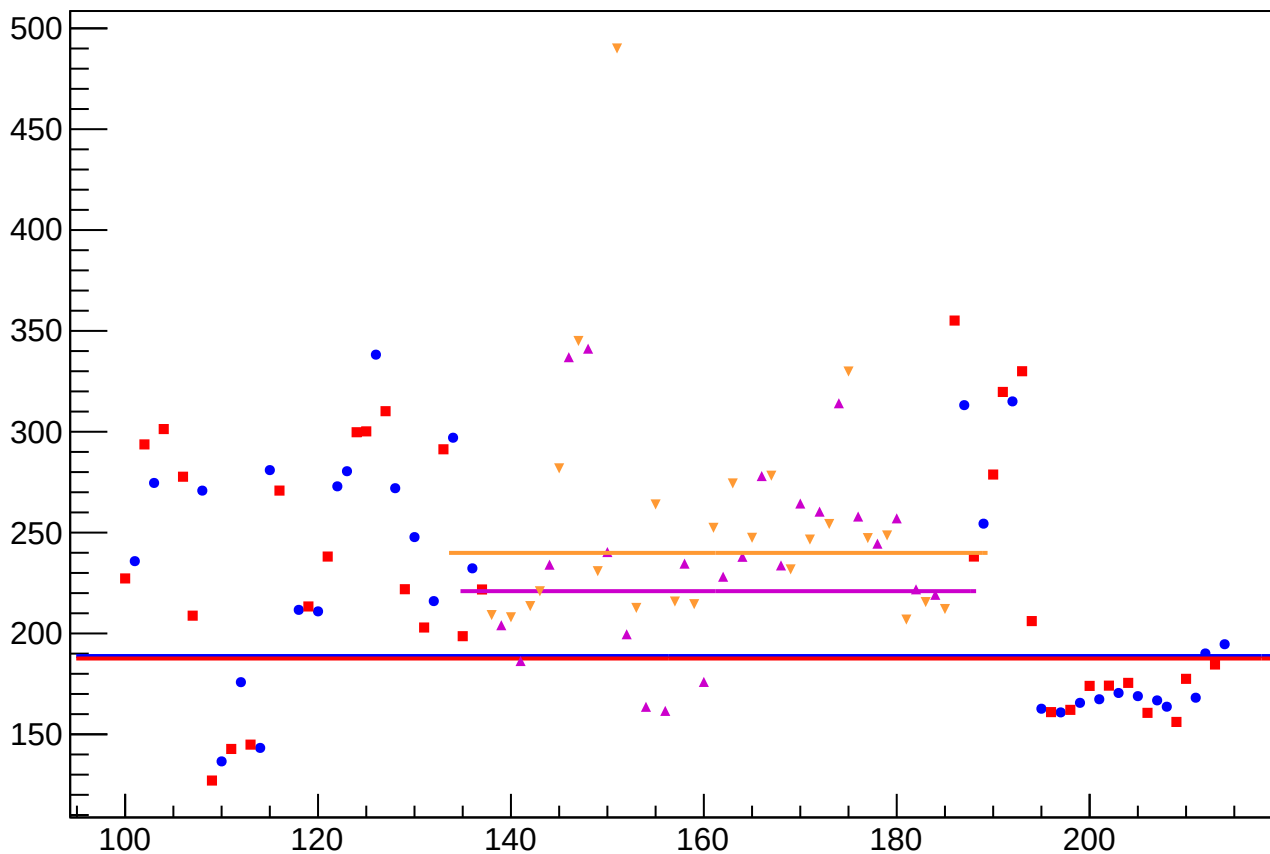
Right: 201.281+/-33.498 χ^2/NDF : 24947.4/64

In: 476.674+/-36.020 χ^2/NDF : 12742.6/53

Out: 334.359+/-36.432 χ^2/NDF : 16239.5/58

All: 406.327+/-25.615 χ^2/NDF : 28989.9/112

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.806 $\pm$ 0.034 χ^2 /NDF: 1547104.0/30

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 187.576 $\pm$ 0.033 χ^2 /NDF: 2121642.2/33

Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

Left: 230.067 $\pm$ 0.028 χ^2 /NDF: 2442154.9/47

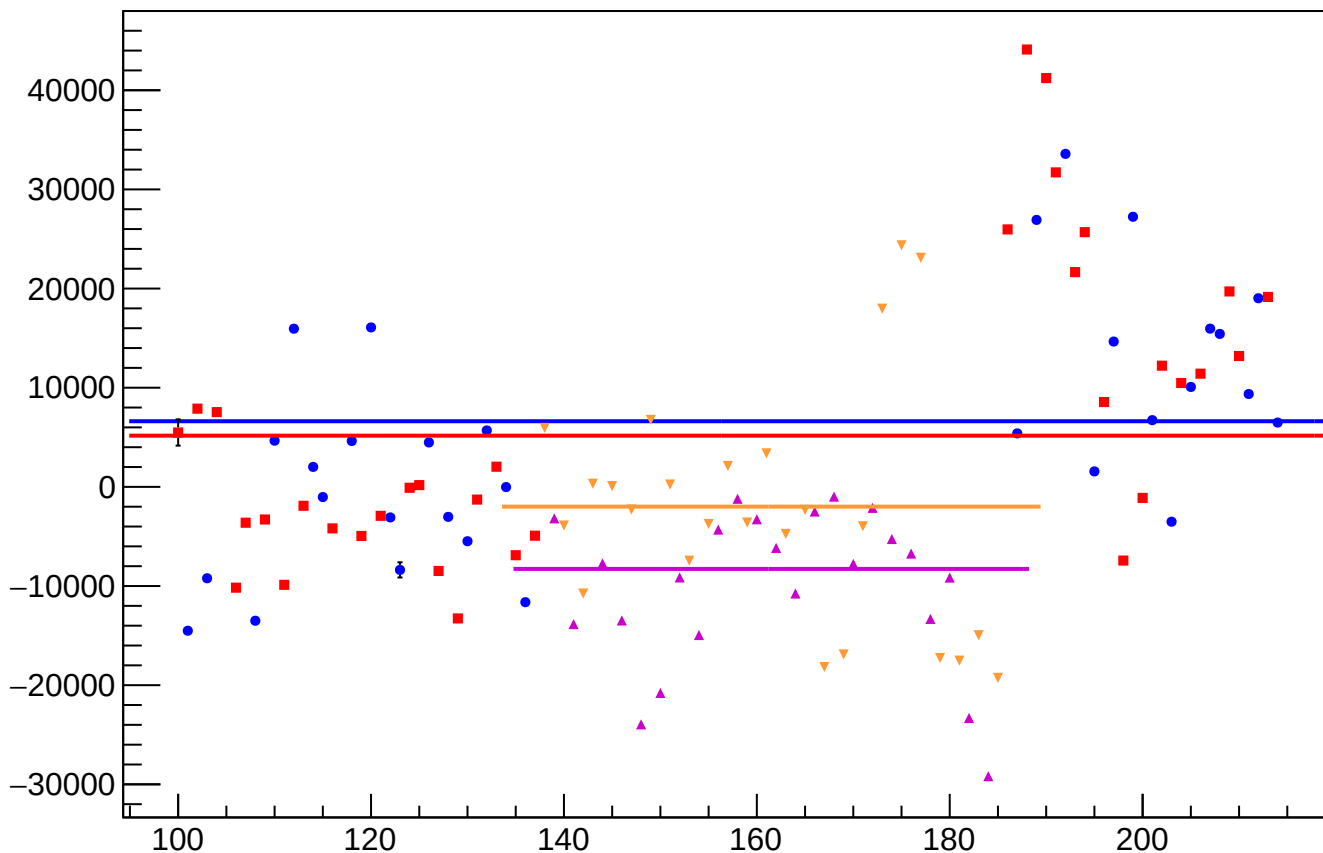
Right: 188.185 $\pm$ 0.024 χ^2 /NDF: 3669420.2/64

In: 202.557 $\pm$ 0.025 χ^2 /NDF:3265124.8/53

Out: 208.670 $\pm$ 0.026 χ^2 /NDF:4116375.4/58

All: 205.579 $\pm$ 0.018 χ^2 /NDF: 7409981.1/112

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6619.219+/-40.121 χ^2/NDF : 93695.3/30

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5164.569+/-38.756 χ^2/NDF : 144038.9/33

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

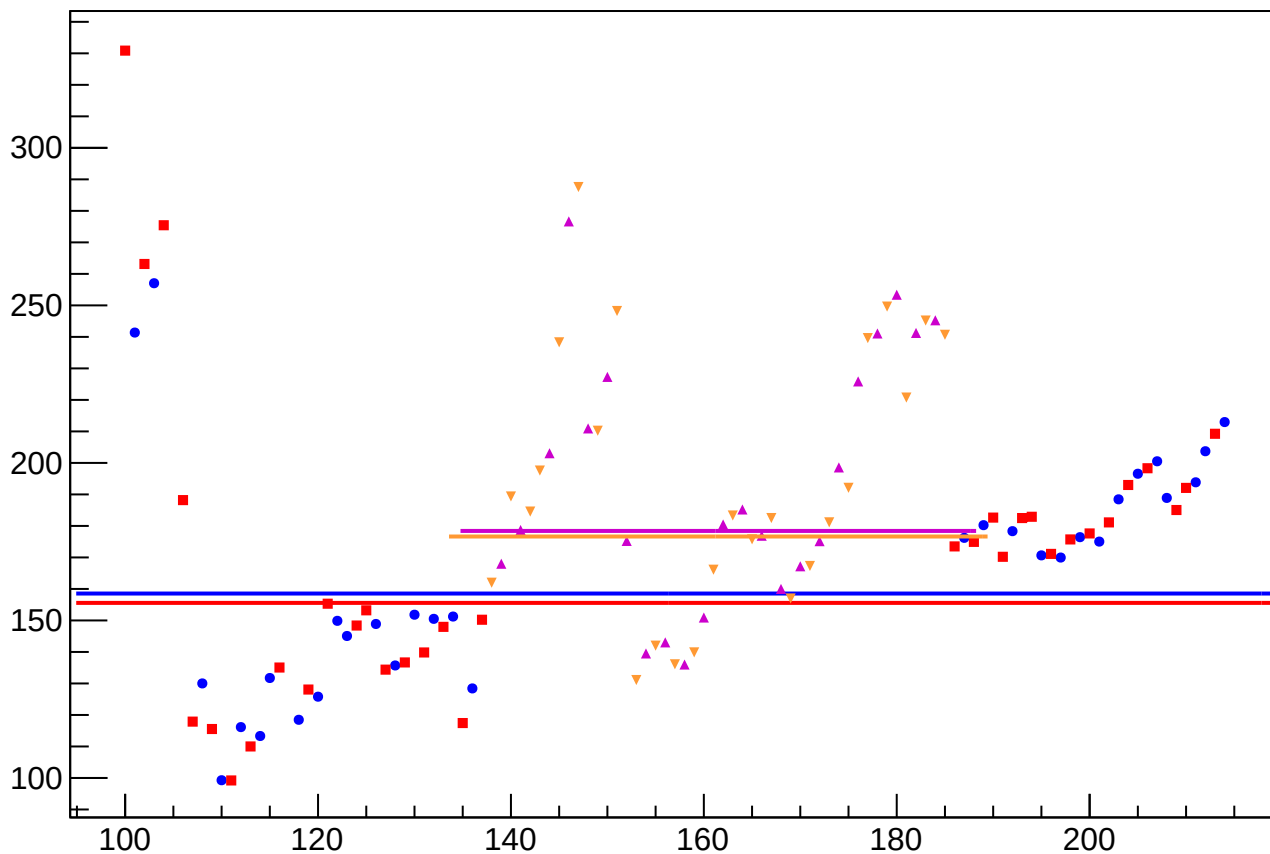
Right: 5866.727+/-27.875 χ^2/NDF : 238414.1/64

In: -91.395+/-29.738 χ^2/NDF : 178650.3/53

Out: 1909.320+/-28.614 χ^2/NDF : 223315.0/58

All: 947.474+/-20.619 χ^2/NDF : 404315.6/112

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 158.542 ± 0.028 χ^2/NDF : 1535456.2/30

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 155.571 ± 0.027 χ^2/NDF : 1731052.3/33

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

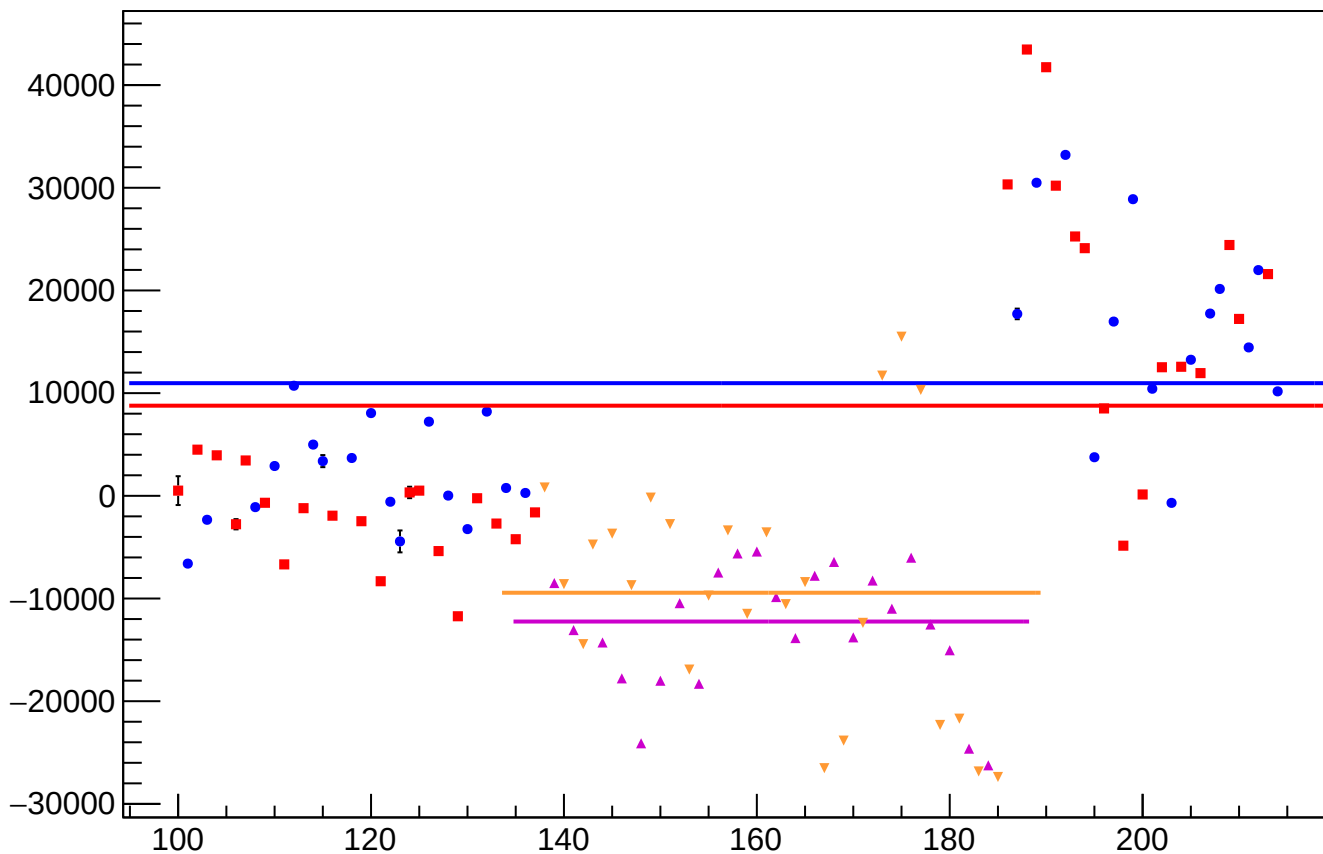
Right: 157.005 ± 0.020 χ^2/NDF : 3272179.1/64

In: 167.496 ± 0.021 χ^2/NDF : 3050270.7/53

Out: 165.155 ± 0.020 χ^2/NDF : 3550973.0/58

All: 166.281 ± 0.015 χ^2/NDF : 6607677.2/112

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10971.064+/-44.302

χ^2/NDF : 55139.6/30

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 8778.623+/-42.880

χ^2/NDF : 115696.0/33

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

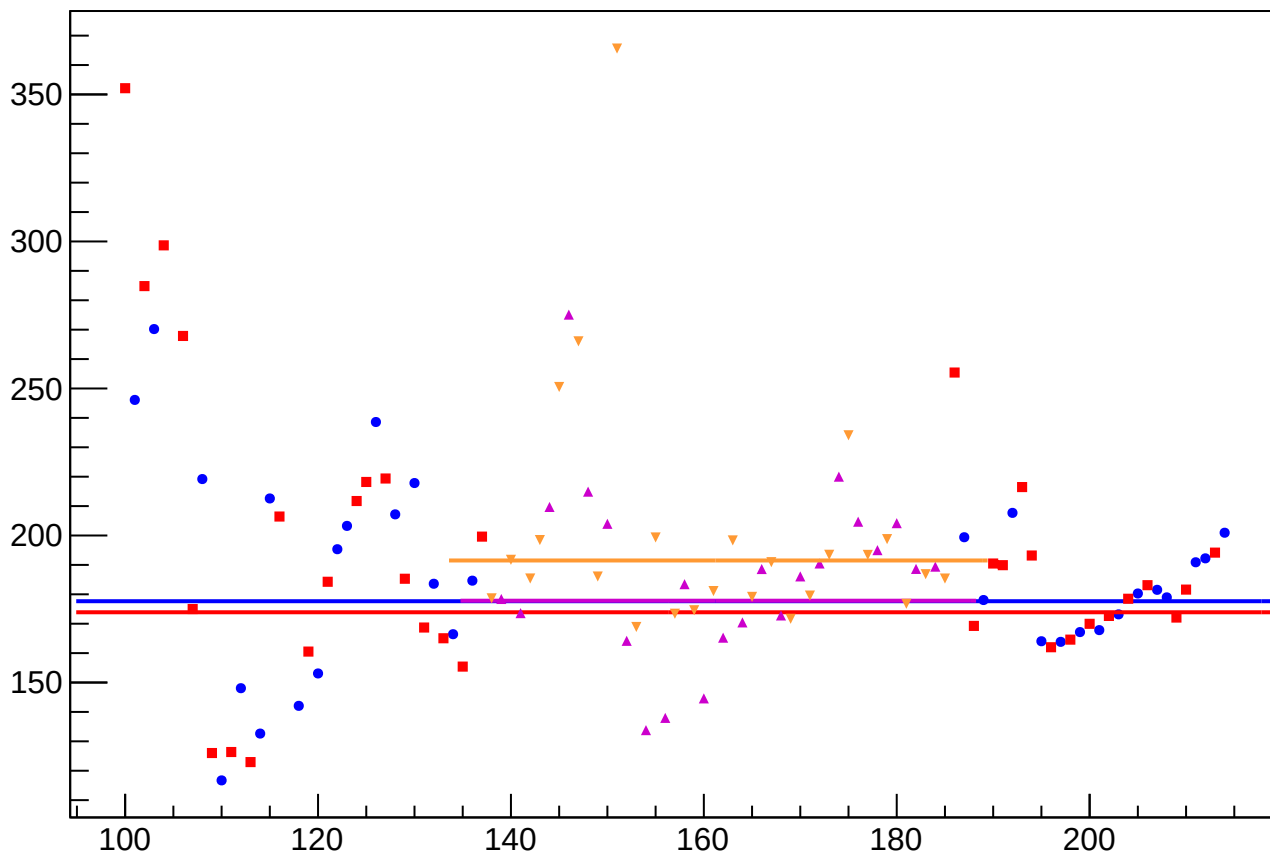
Right: 9839.084+/-30.811 χ^2/NDF : 172100.1/64

In: -729.760+/-31.199 χ^2/NDF : 210143.0/53

Out: 216.964+/-31.217 χ^2/NDF : 262736.7/58

All: -256.668+/-22.067 χ^2/NDF : 473339.9/11

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.652 ± 0.031 $\chi^2/\text{NDF}: 803427.1/30$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 173.891 ± 0.030 $\chi^2/\text{NDF}: 1151604.9/33$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

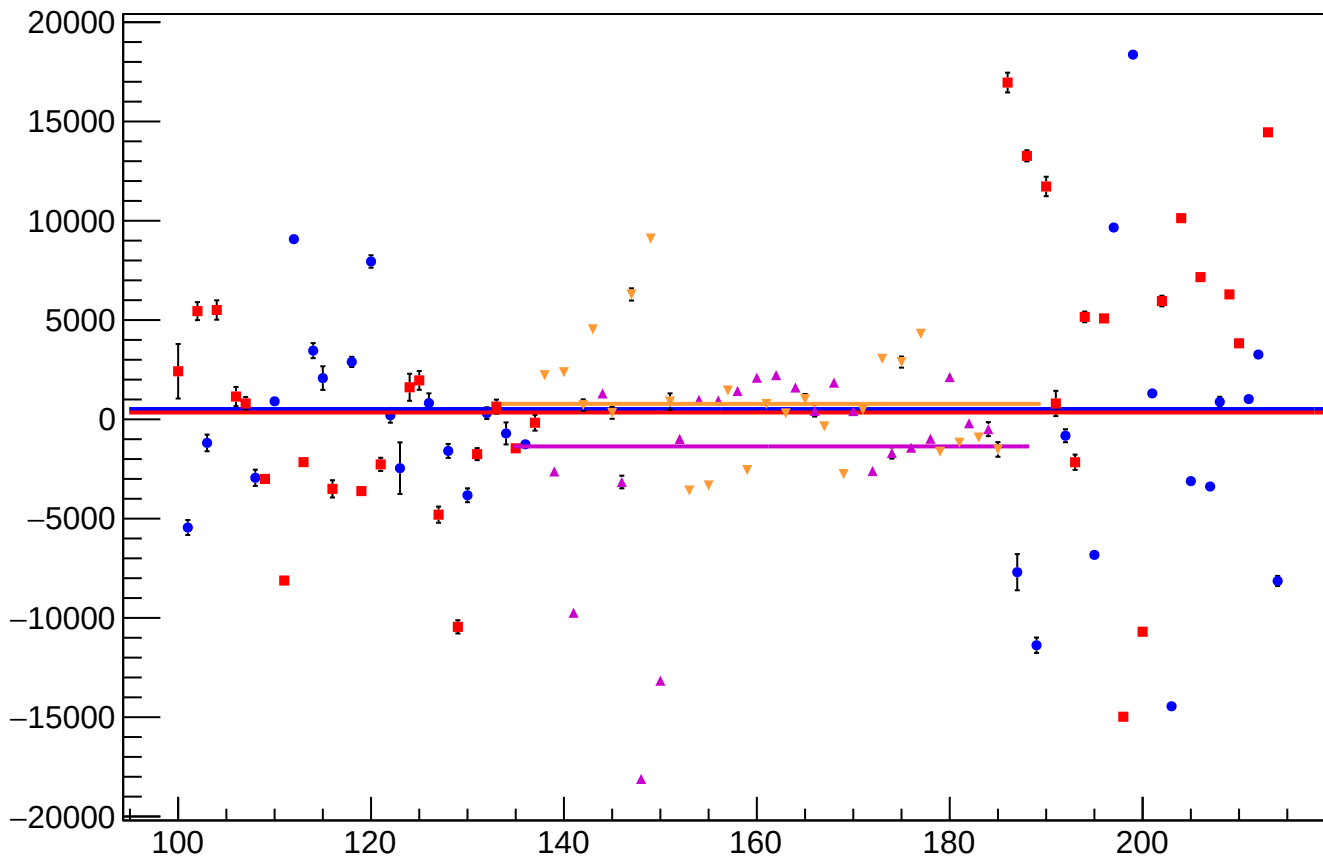
Right: 175.710 ± 0.022 $\chi^2/\text{NDF}: 1962476.5/64$

In: 177.738 ± 0.022 $\chi^2/\text{NDF}: 1665936.2/53$

Out: 182.170 ± 0.022 $\chi^2/\text{NDF}: 2037506.3/58$

All: 179.953 ± 0.016 $\chi^2/\text{NDF}: 3723617.8/112$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 519.012 $\pm$ 49.634 χ^2 /NDF: 21637.0/30

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: 345.795 $\pm$ 48.260 χ^2 /NDF: 24948.3/33

Left In: -1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2 /NDF: 16949.3/47

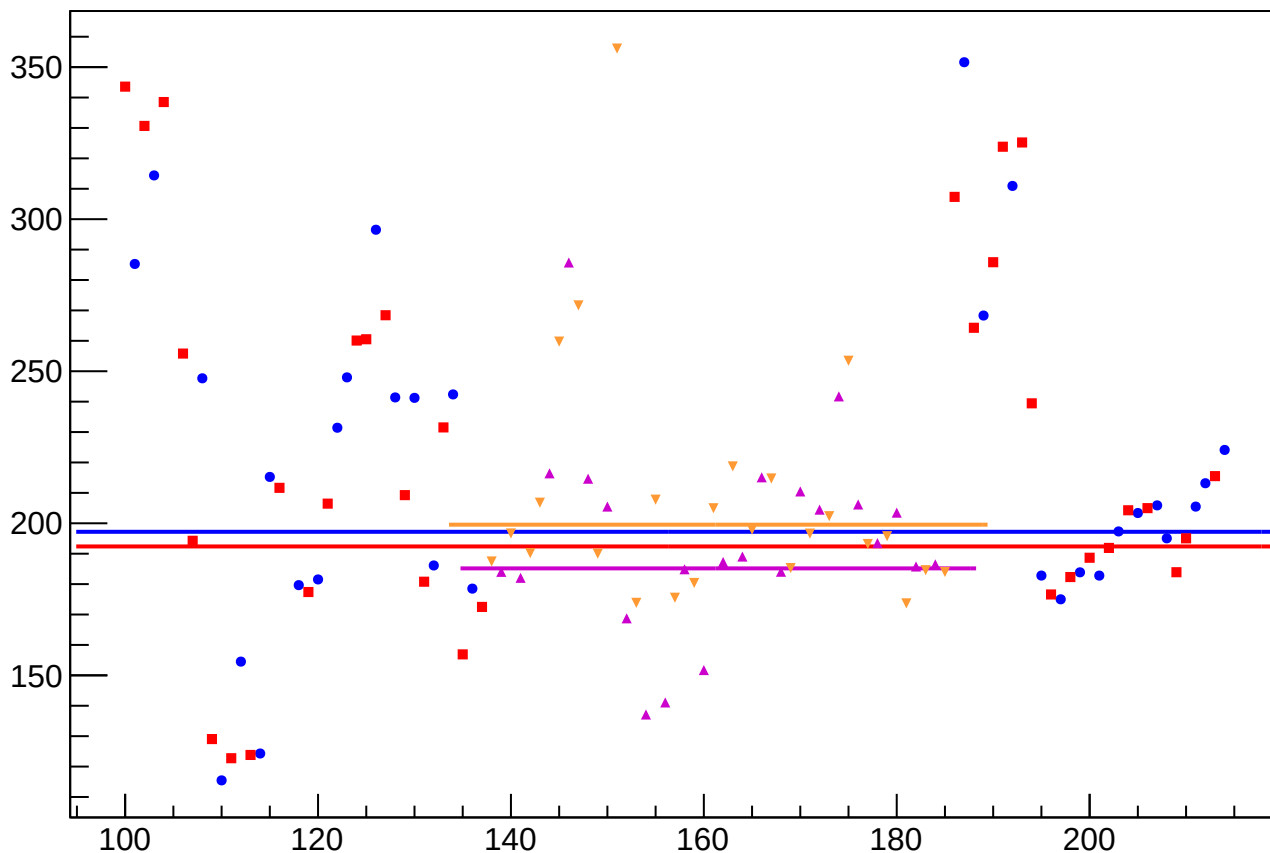
Right: 429.973 $\pm$ 34.600 χ^2 /NDF: 46591.6/64

In: -497.370 $\pm$ 33.662 χ^2 /NDF:34046.4/53

Out: 566.529 $\pm$ 33.838 χ^2 /NDF:29250.2/58

All: 31.813 $\pm$ 23.864 χ^2 /NDF: 63793.4/112

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 197.202 ± 0.035 $\chi^2/\text{NDF}: 1452299.9/30$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 192.384 ± 0.034 $\chi^2/\text{NDF}: 2162853.9/33$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

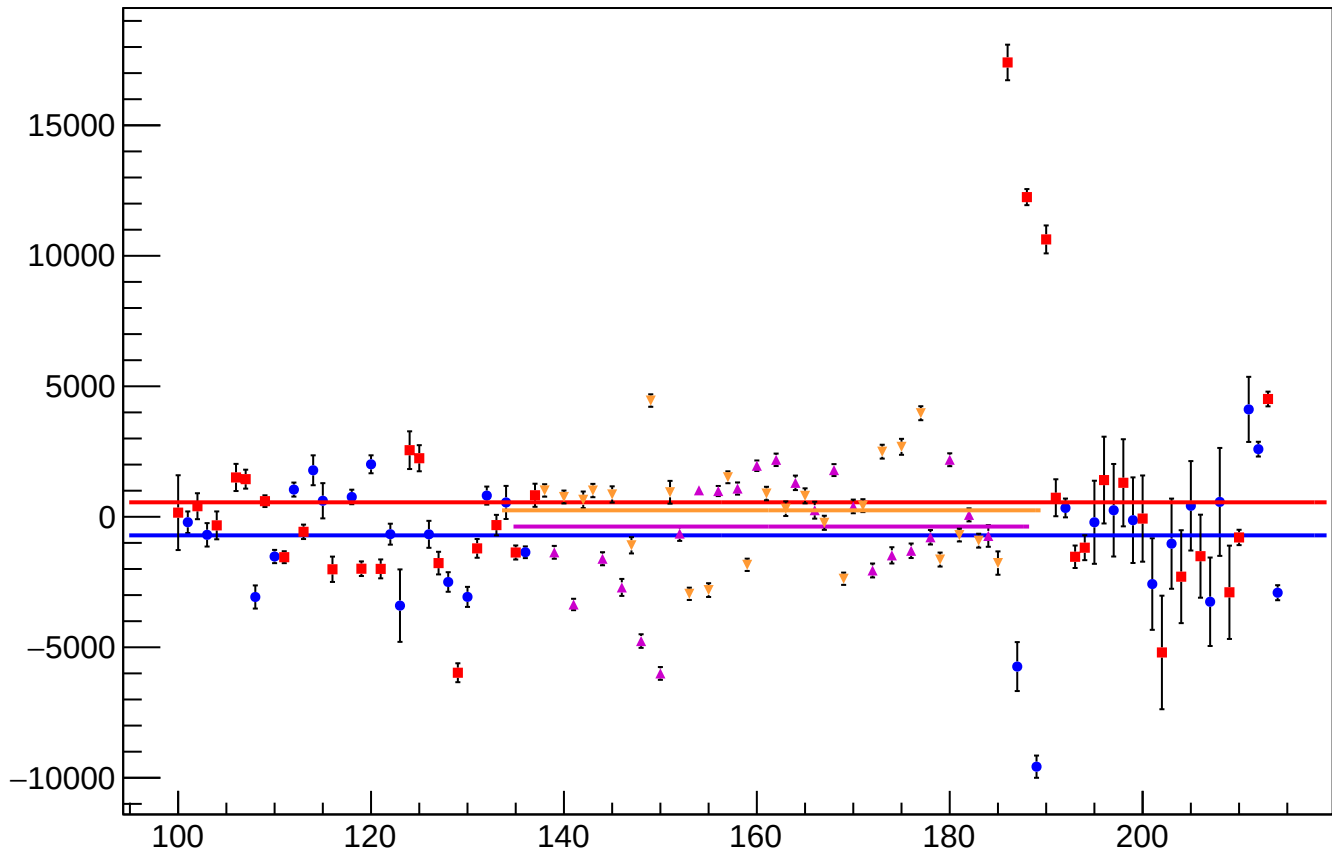
Right: 194.726 ± 0.024 $\chi^2/\text{NDF}: 3624841.5/64$

In: 190.705 ± 0.024 $\chi^2/\text{NDF}: 2398520.6/53$

Out: 196.026 ± 0.024 $\chi^2/\text{NDF}: 2914606.7/58$

All: 193.351 ± 0.017 $\chi^2/\text{NDF}: 5337982.2/112$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -711.376 ± 76.912 $\chi^2/\text{NDF}: 975.9/30$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 555.028 ± 70.319 $\chi^2/\text{NDF}: 3400.3/33$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

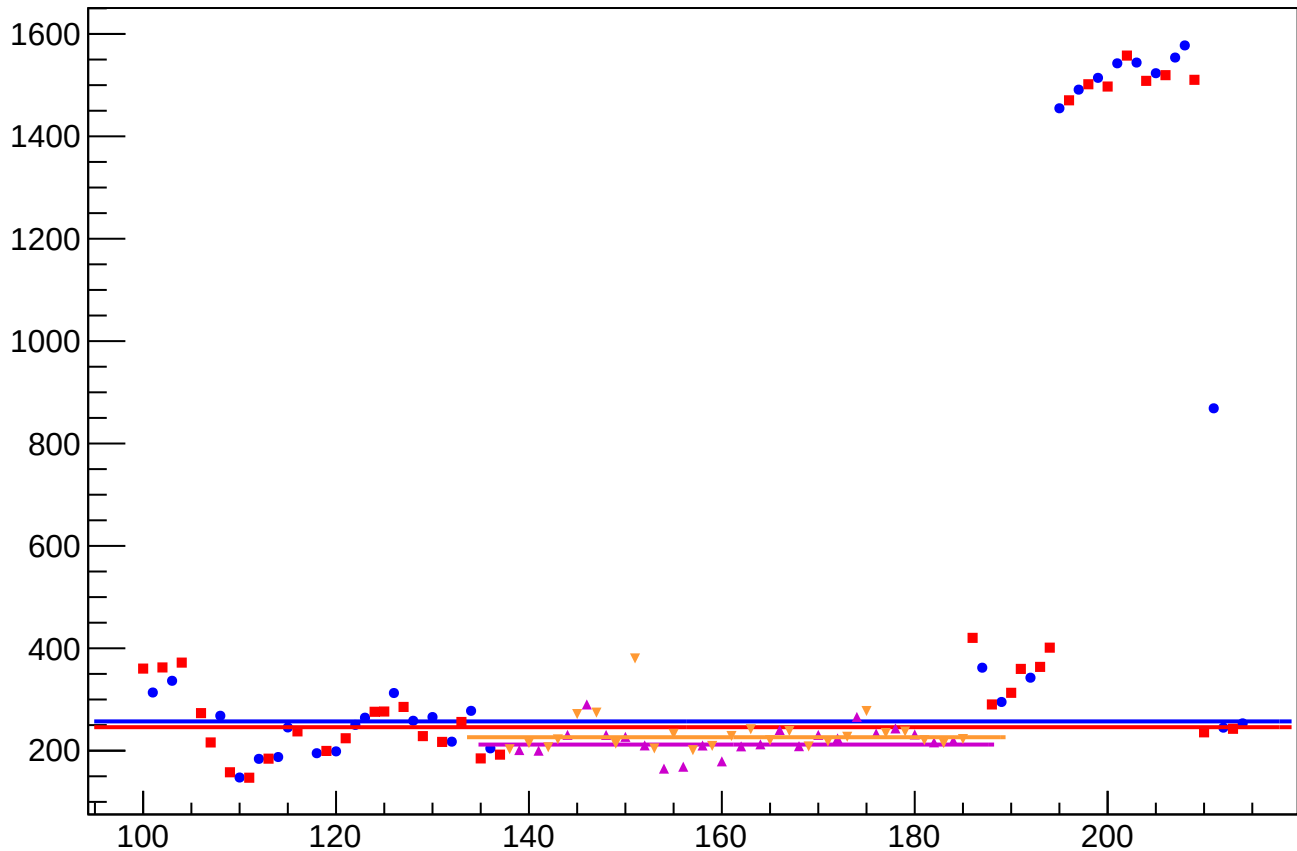
Right: -21.576 ± 51.897 $\chi^2/\text{NDF}: 4523.9/64$

In: -480.059 ± 43.106 $\chi^2/\text{NDF}: 2790.1/53$

Out: 360.612 ± 42.605 $\chi^2/\text{NDF}: 4767.5/58$

All: -54.814 ± 30.302 $\chi^2/\text{NDF}: 7750.0/112$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.226 ± 0.054 $\chi^2/\text{NDF}: 10146114.9/30$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 245.898 ± 0.050 $\chi^2/\text{NDF}: 9273307.6/33$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

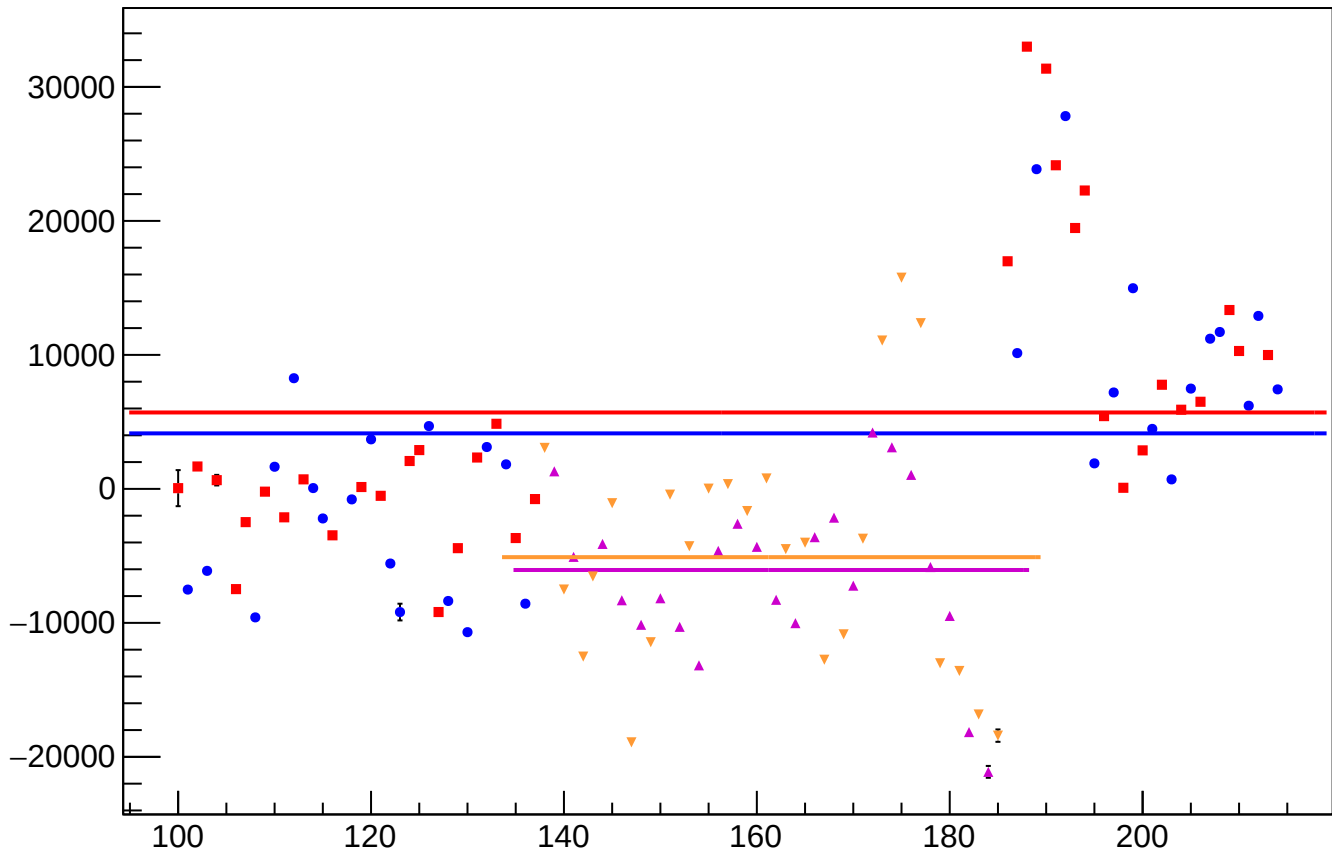
Right: 251.056 ± 0.037 $\chi^2/\text{NDF}: 19443051.7/64$

In: 226.186 ± 0.030 $\chi^2/\text{NDF}: 11205396.9/53$

Out: 233.508 ± 0.030 $\chi^2/\text{NDF}: 9892454.8/58$

All: 229.890 ± 0.021 $\chi^2/\text{NDF}: 21127047.3/111$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4142.773+/-34.109 χ^2/NDF : 79671.5/30

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5703.034+/-32.712 χ^2/NDF : 103898.9/33

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

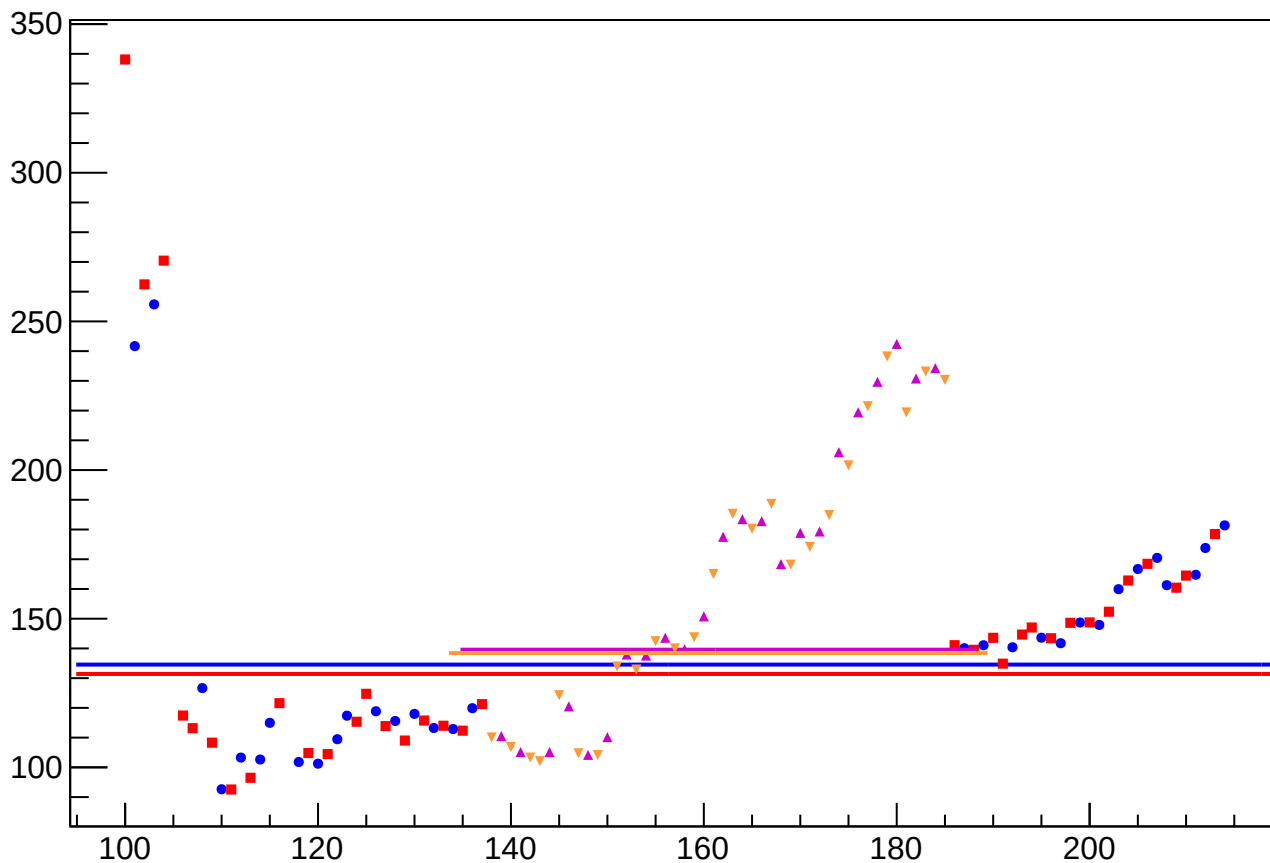
Right: 4955.518+/-23.609 χ^2/NDF : 184660.4/64

In: -824.251+/-24.427 χ^2/NDF : 140793.2/53

Out: 465.084+/-23.473 χ^2/NDF : 211152.6/58

All: -153.927+/-16.925 χ^2/NDF : 353394.2/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 134.564+/-0.024 χ^2/NDF : 1537585.4/30

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

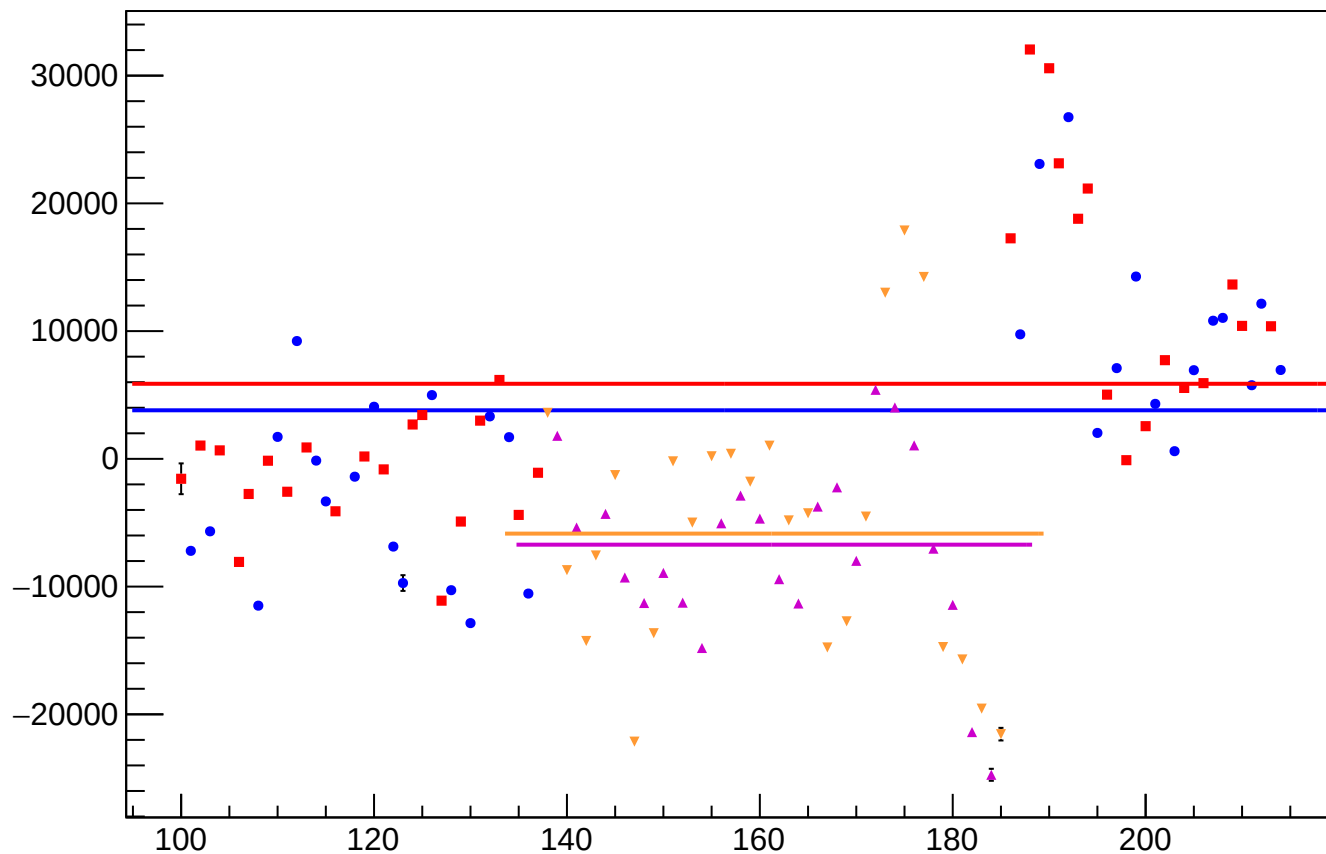
Right: 132.920+/-0.017 χ^2/NDF : 3132062.0/64

In: 137.006+/-0.017 χ^2/NDF :3972295.7/53

Out: 134.817+/-0.017 χ^2/NDF :4179773.7/58

All: 135.868+/-0.012 χ^2/NDF : 8160424.8/112

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3801.111+/-34.071 χ^2/NDF : 84761.6/30

Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24

Right Out: 5876.653+/-32.830 χ^2/NDF : 104675.2/33

Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850 χ^2/NDF : 84625.8/47

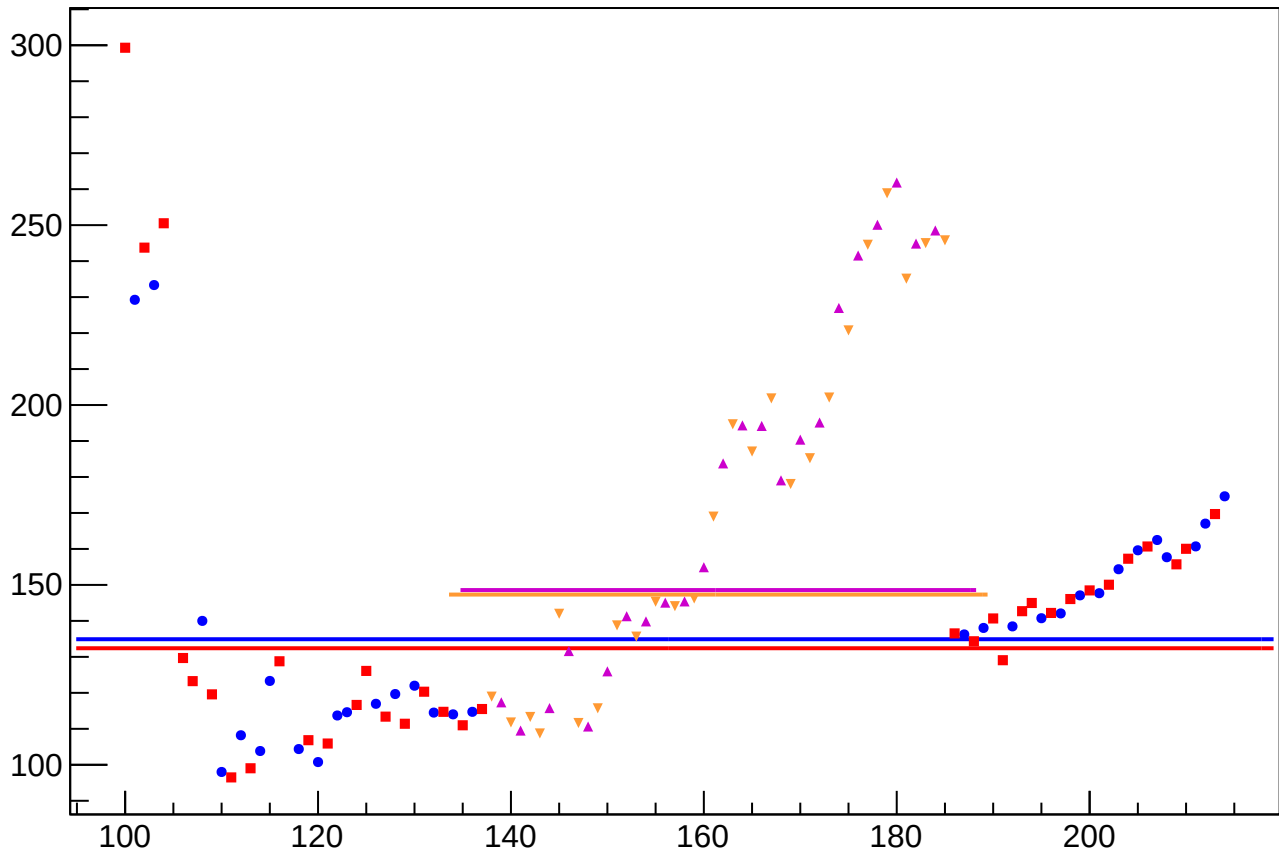
Right: 4877.361+/-23.641 χ^2/NDF : 191361.2/64

In: -987.090+/-25.148 χ^2/NDF : 149087.9/53

Out: 531.654+/-24.221 χ^2/NDF : 226253.5/58

All: -199.192+/-17.445 χ^2/NDF : 377233.5/111

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 134.905+/-0.024 χ^2/NDF : 1217371.0/30

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 132.398+/-0.023 χ^2/NDF : 1229295.8/33

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

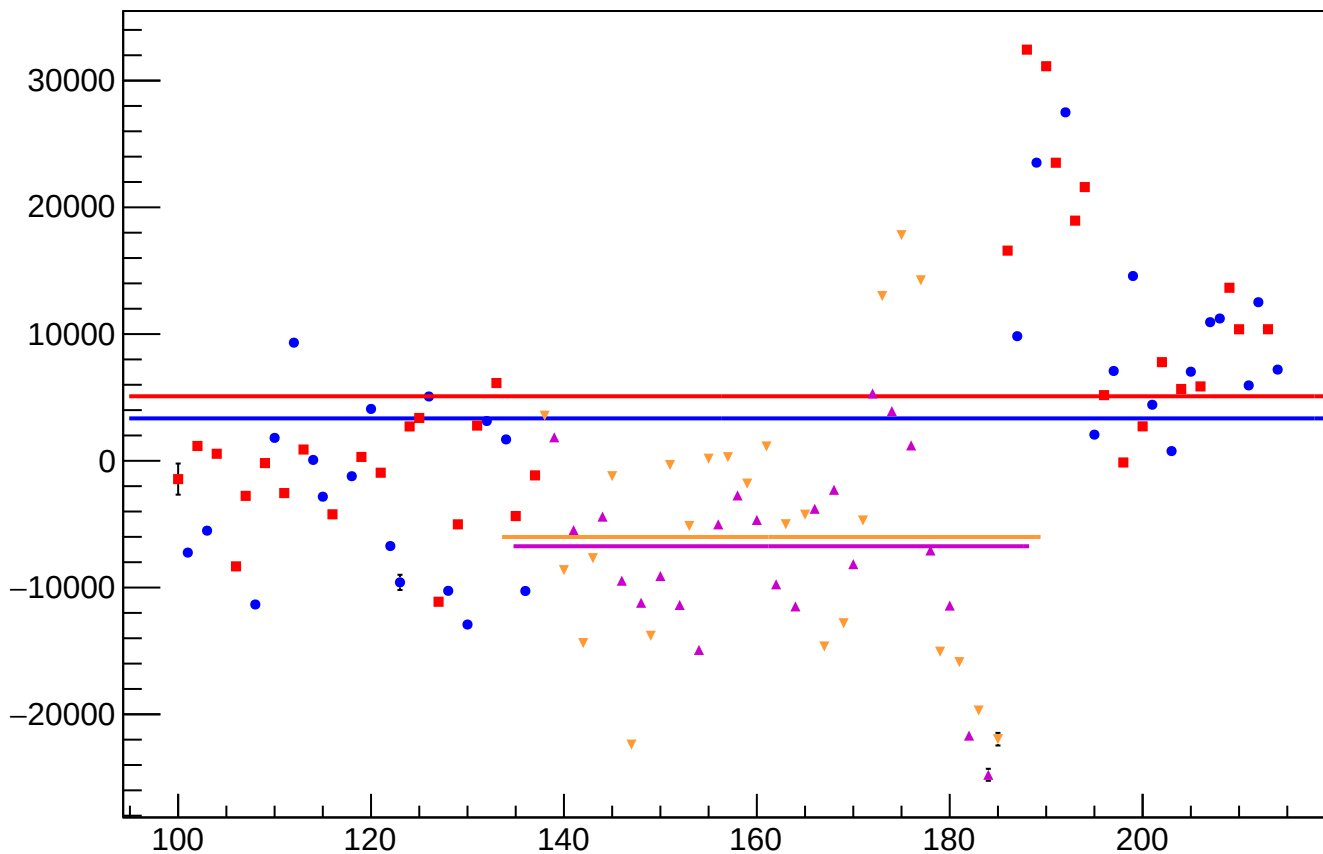
Right: 133.605+/-0.017 χ^2/NDF : 2452281.5/64

In: 141.124+/-0.018 χ^2/NDF : 3756966.6/53

Out: 139.197+/-0.017 χ^2/NDF : 3929191.6/58

All: 140.124+/-0.012 χ^2/NDF : 7692253.4/112

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3347.878+/-34.079 χ^2/NDF : 84557.2/30

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 5092.440+/-32.820 χ^2/NDF : 99776.9/33

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

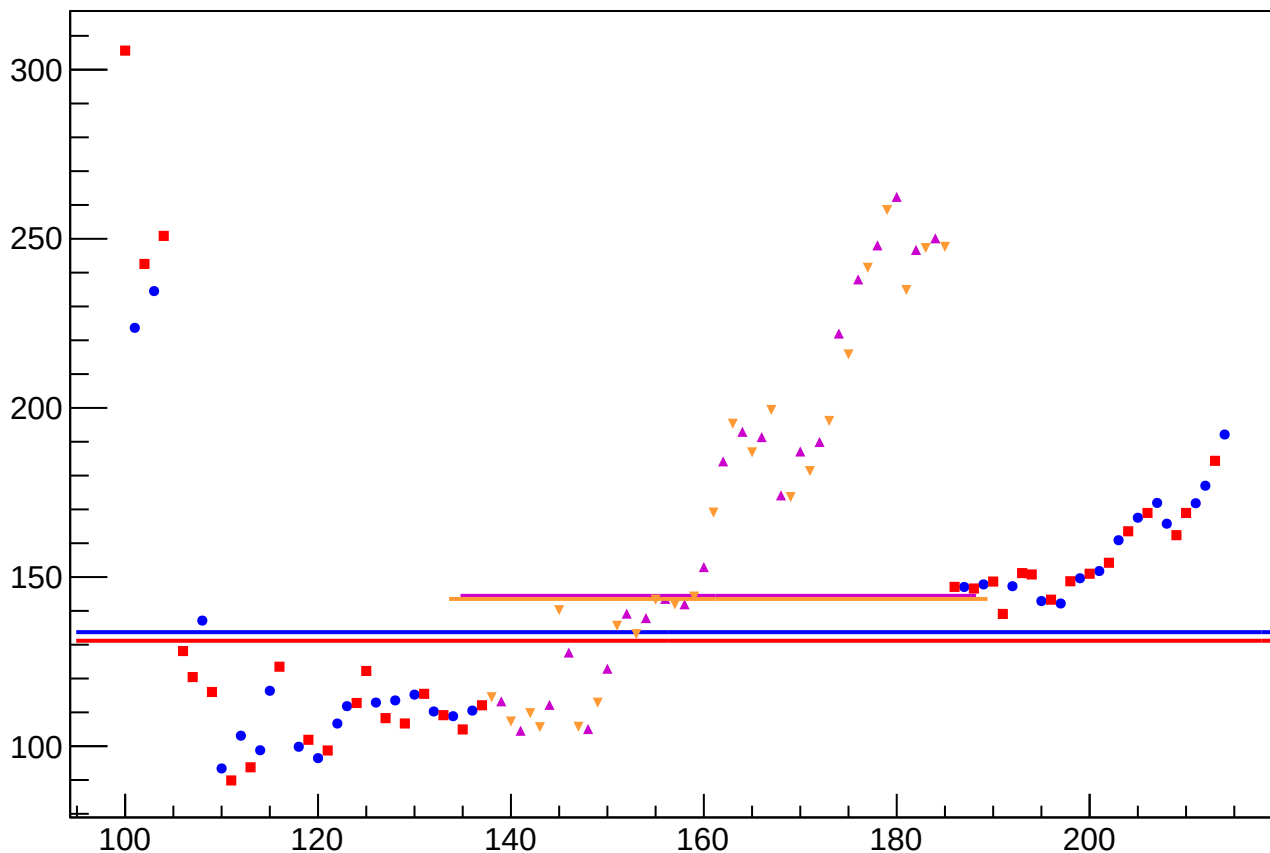
Right: 4252.989+/-23.640 χ^2/NDF : 185693.7/64

In: -1367.354+/-24.871 χ^2/NDF : 147589.0/53

Out: -89.163+/-23.967 χ^2/NDF : 221038.1/58

All: -704.607+/-17.258 χ^2/NDF : 369996.6/111

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 133.709+/-0.024 χ^2/NDF : 1703297.9/30

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 131.166+/-0.023 χ^2/NDF : 1731252.3/33

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

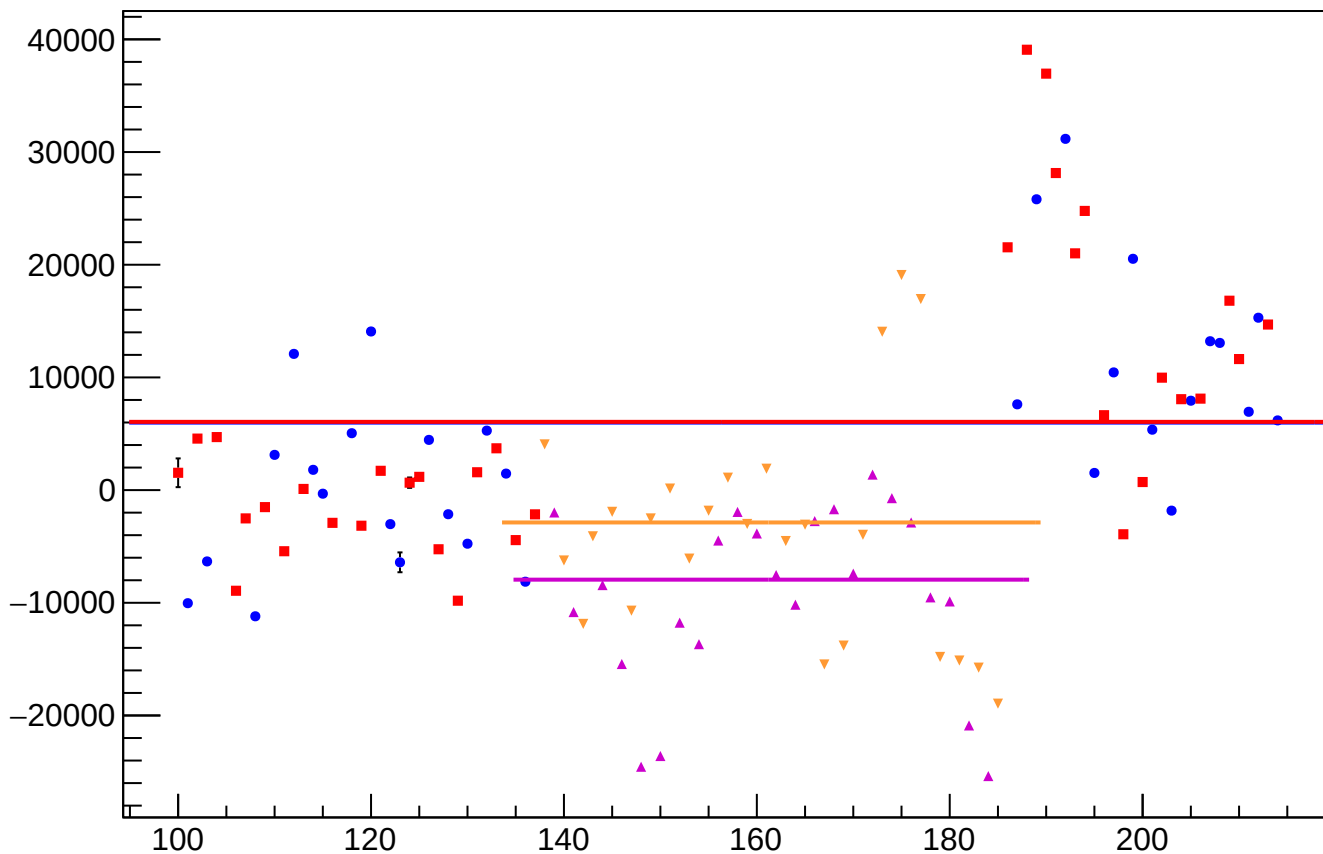
Right: 132.390+/-0.017 χ^2/NDF : 3440331.8/64

In: 138.725+/-0.018 χ^2/NDF : 4382897.8/53

Out: 136.936+/-0.017 χ^2/NDF : 4568541.7/58

All: 137.797+/-0.012 χ^2/NDF : 8956799.3/112

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5992.854+/-41.088 χ^2/NDF : 63479.1/30

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 6056.897+/-39.629 χ^2/NDF : 99863.5/33

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

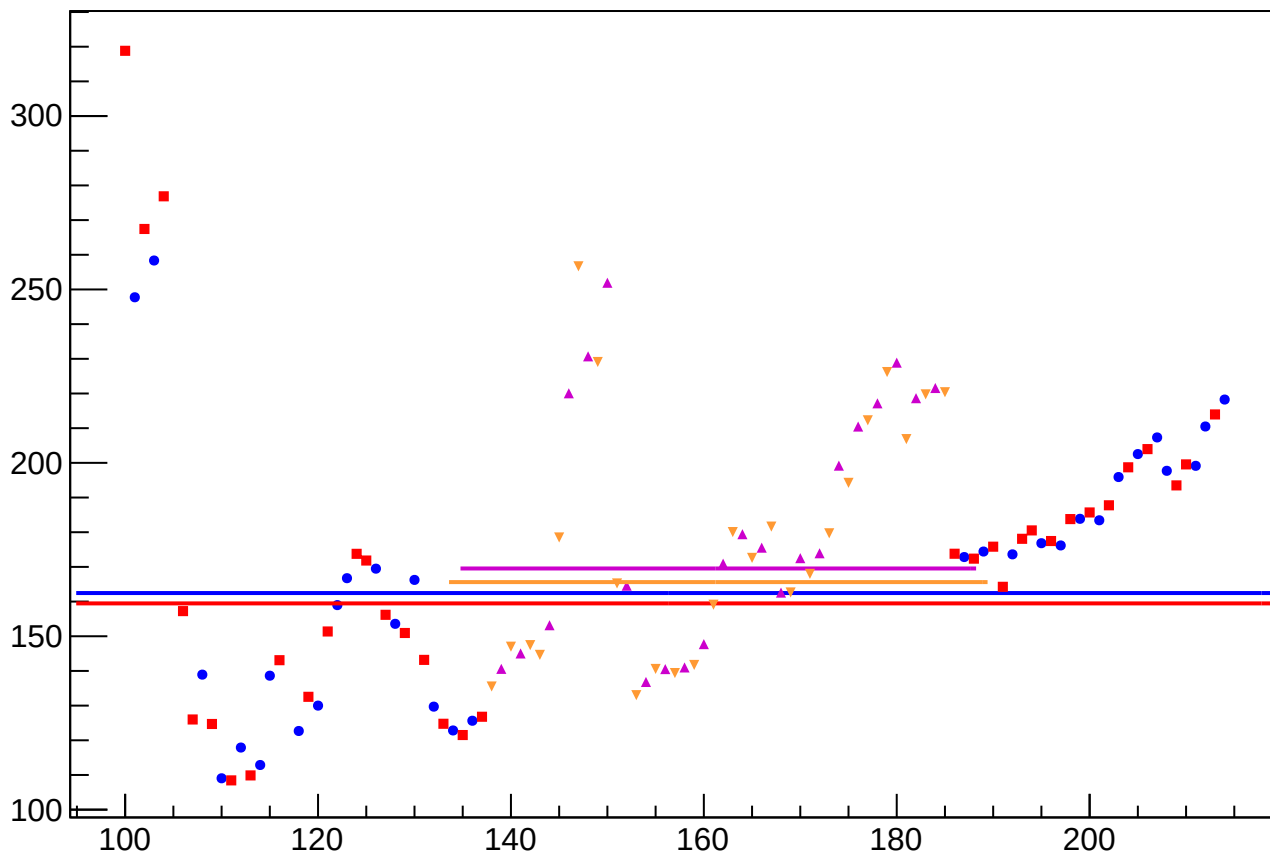
Right: 6026.033+/-28.524 χ^2/NDF : 163343.8/64

In: -869.845+/-29.277 χ^2/NDF : 144019.8/53

Out: 1576.606+/-27.970 χ^2/NDF : 171751.9/58

All: 409.187+/-20.224 χ^2/NDF : 319422.4/112

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 162.460+/-0.029 χ^2/NDF : 1560879.7/30

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 159.475+/-0.028 χ^2/NDF : 1603636.1/33

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

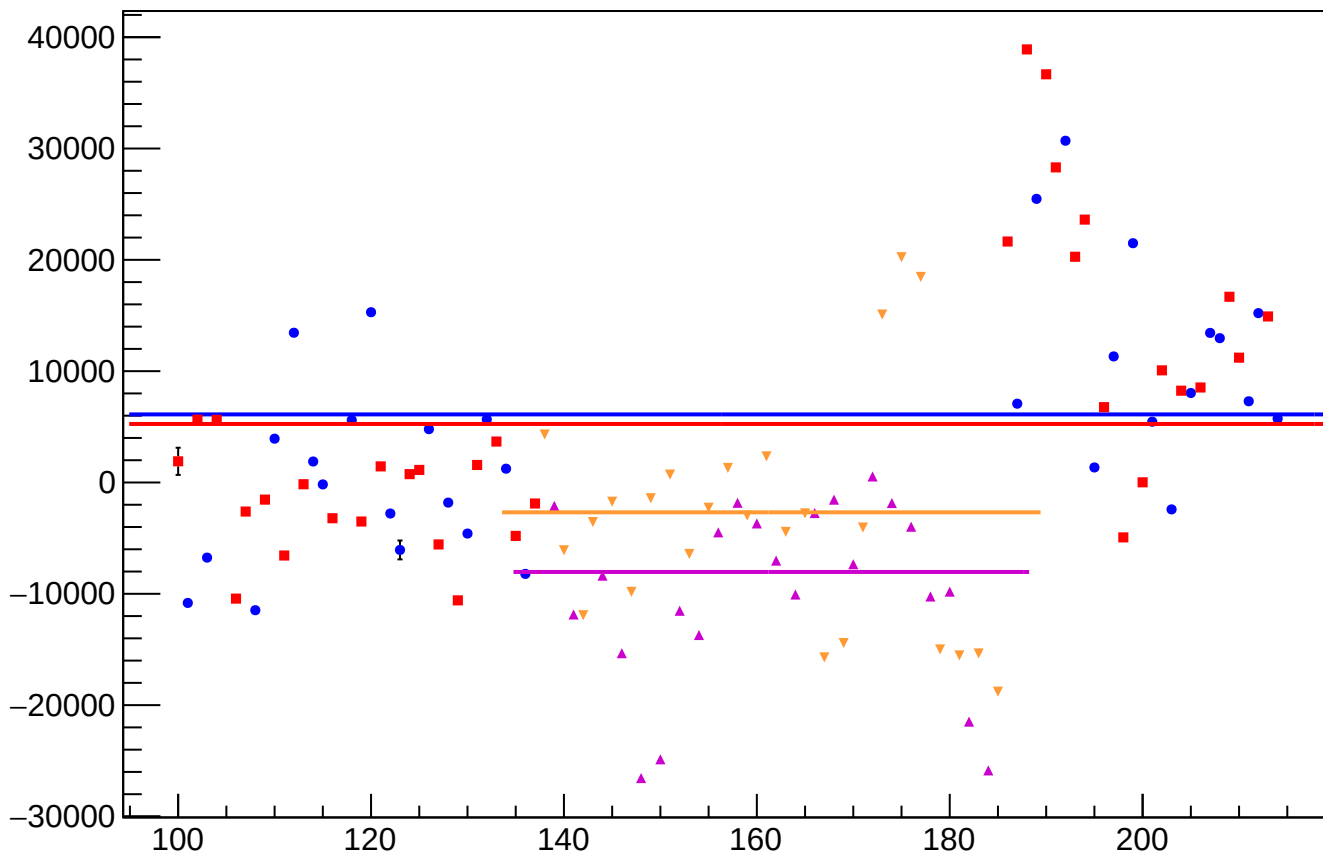
Right: 160.913+/-0.020 χ^2/NDF : 3169983.4/64

In: 165.946+/-0.021 χ^2/NDF :2749373.3/53

Out: 162.557+/-0.020 χ^2/NDF :2772522.0/58

All: 164.174+/-0.014 χ^2/NDF : 5535907.1/112

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6116.274+/-34.808

χ^2/NDF : 88924.3/30

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 5257.217+/-33.338

χ^2/NDF : 139706.5/33

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 5668.230+/-24.076

χ^2/NDF : 228948.5/64

In: -354.870+/-25.644

χ^2/NDF : 193779.7/53

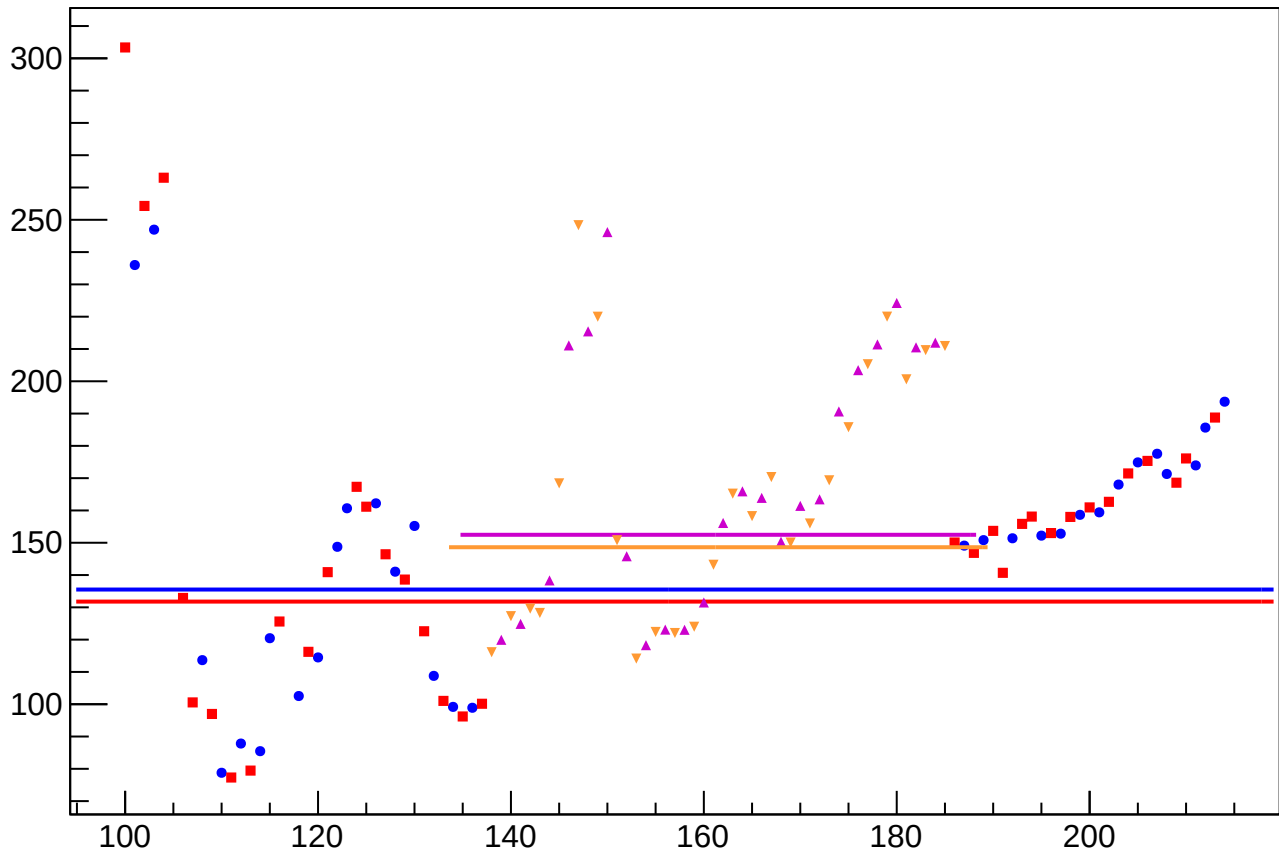
Out: 1566.862+/-24.386

χ^2/NDF : 222881.5/58

All: 654.282+/-17.671

χ^2/NDF : 419610.3/112

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 135.513 $\pm$ 0.025 χ^2 /NDF: 2370002.9/30

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF:1685424.1/24

Right Out: 131.780 $\pm$ 0.024 χ^2 /NDF: 2552244.7/33

Left In: 152.463 $\pm$ 0.027 χ^2 /NDF:1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2 /NDF: 3387867.0/47

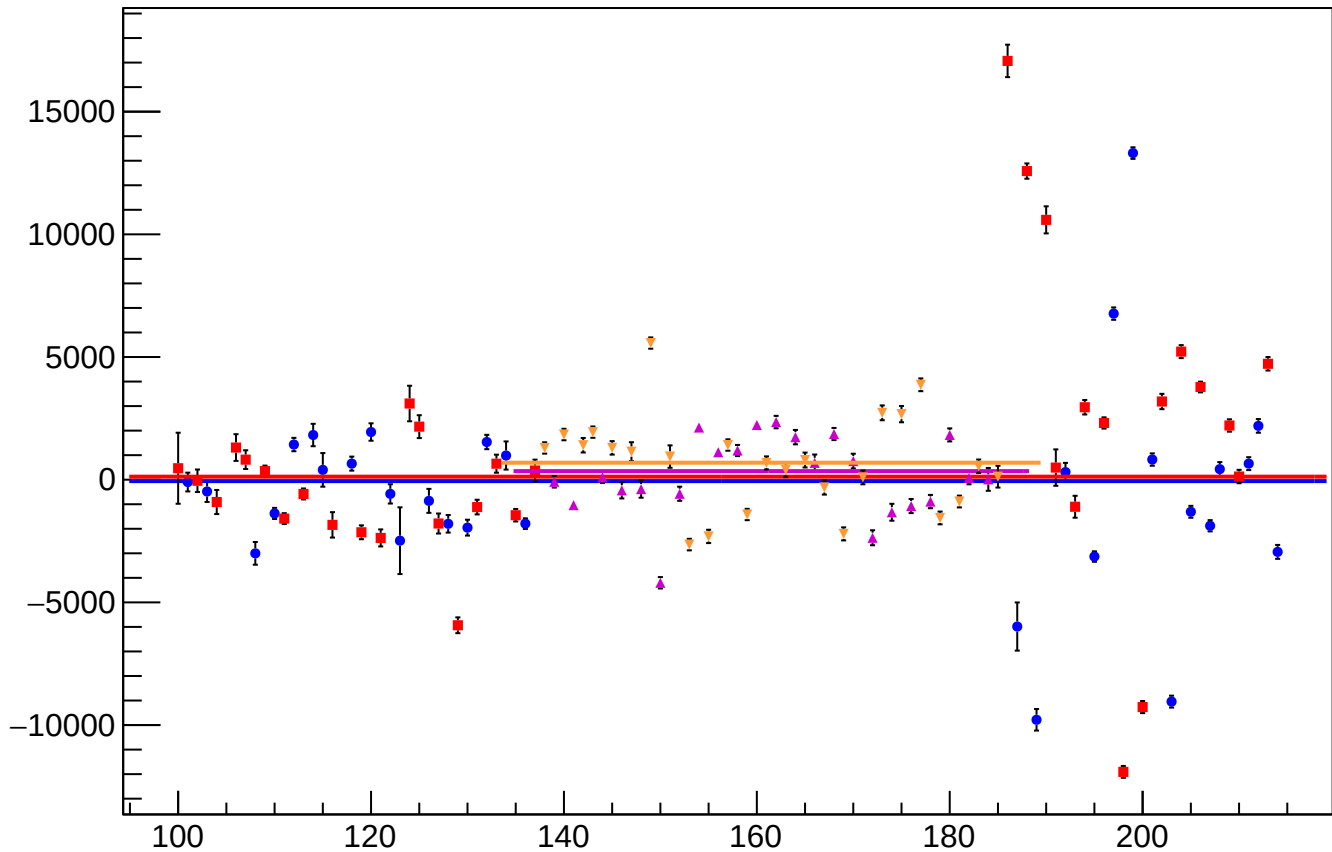
Right: 133.566 $\pm$ 0.017 χ^2 /NDF: 4934246.6/64

In: 143.263 $\pm$ 0.018 χ^2 /NDF:4278375.7/53

Out: 139.605 $\pm$ 0.017 χ^2 /NDF:4474674.7/58

All: 141.342 $\pm$ 0.012 χ^2 /NDF: 8774420.4/112

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -57.568 ± 54.952 χ^2/NDF : 6663.5/30

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: 123.535 ± 54.199 χ^2/NDF : 8508.3/33

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

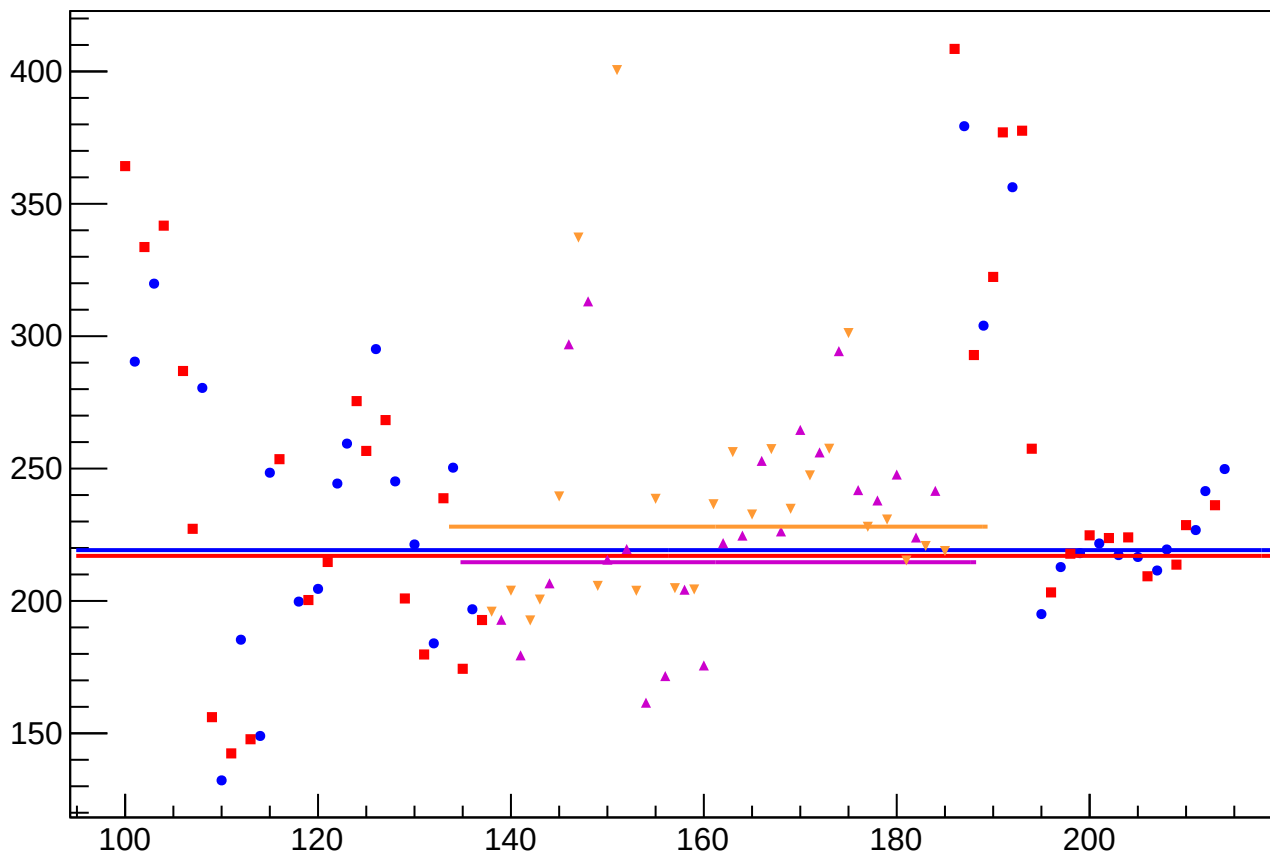
Right: 34.234 ± 38.588 χ^2/NDF : 15177.2/64

In: 153.029 ± 38.183 χ^2/NDF : 7672.8/53

Out: 407.717 ± 38.361 χ^2/NDF : 9985.4/58

All: 279.781 ± 27.062 χ^2/NDF : 17680.4/112

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.196 ± 0.039 $\chi^2/\text{NDF}: 1192702.8/30$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 217.026 ± 0.038 $\chi^2/\text{NDF}: 1837116.6/33$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

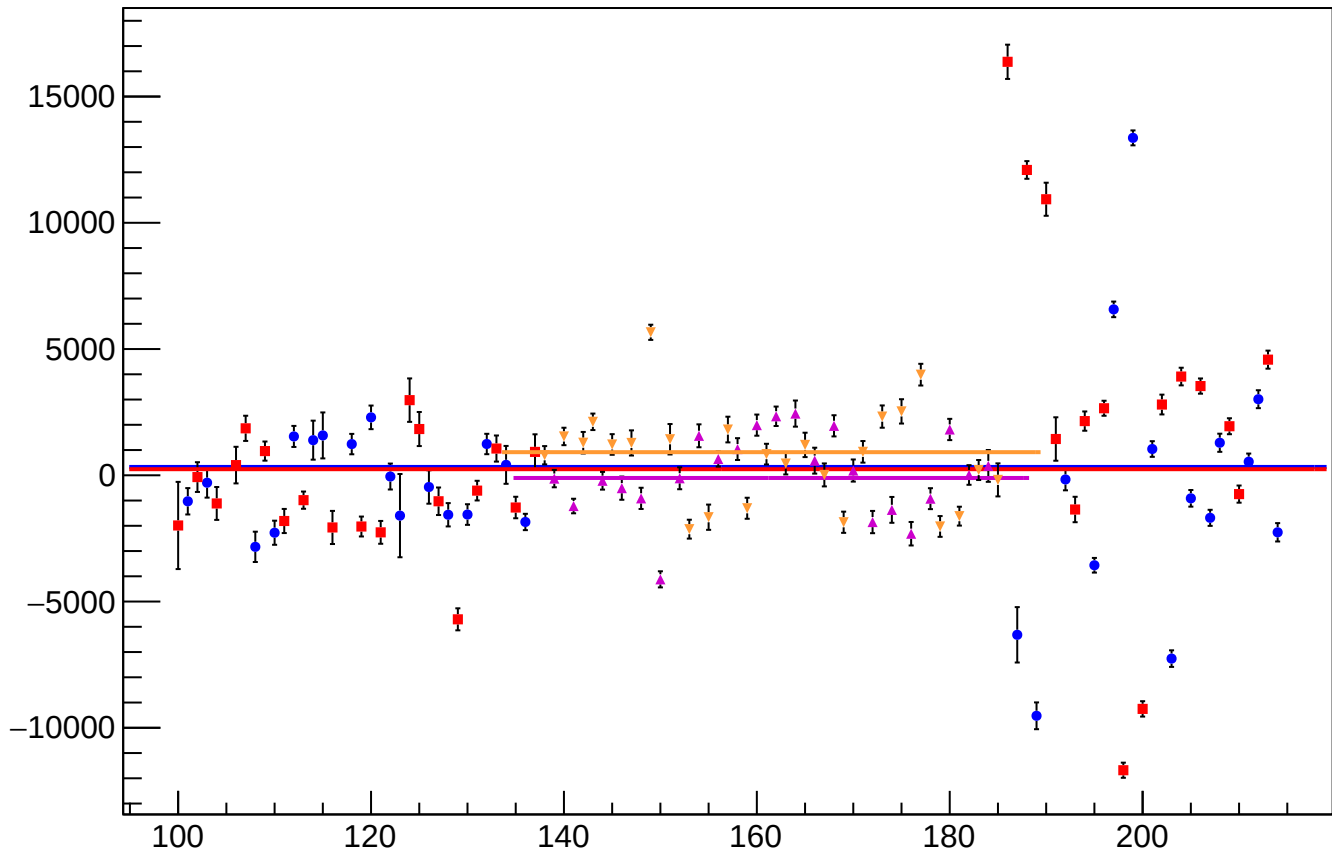
Right: 218.096 ± 0.027 $\chi^2/\text{NDF}: 3031400.4/64$

In: 216.833 ± 0.027 $\chi^2/\text{NDF}: 2225537.5/53$

Out: 222.533 ± 0.027 $\chi^2/\text{NDF}: 2704832.0/58$

All: 219.670 ± 0.019 $\chi^2/\text{NDF}: 4952549.0/112$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 330.952 ± 73.970 $\chi^2/\text{NDF}: 3813.3/30$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: 241.641 ± 73.442 $\chi^2/\text{NDF}: 5444.1/33$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

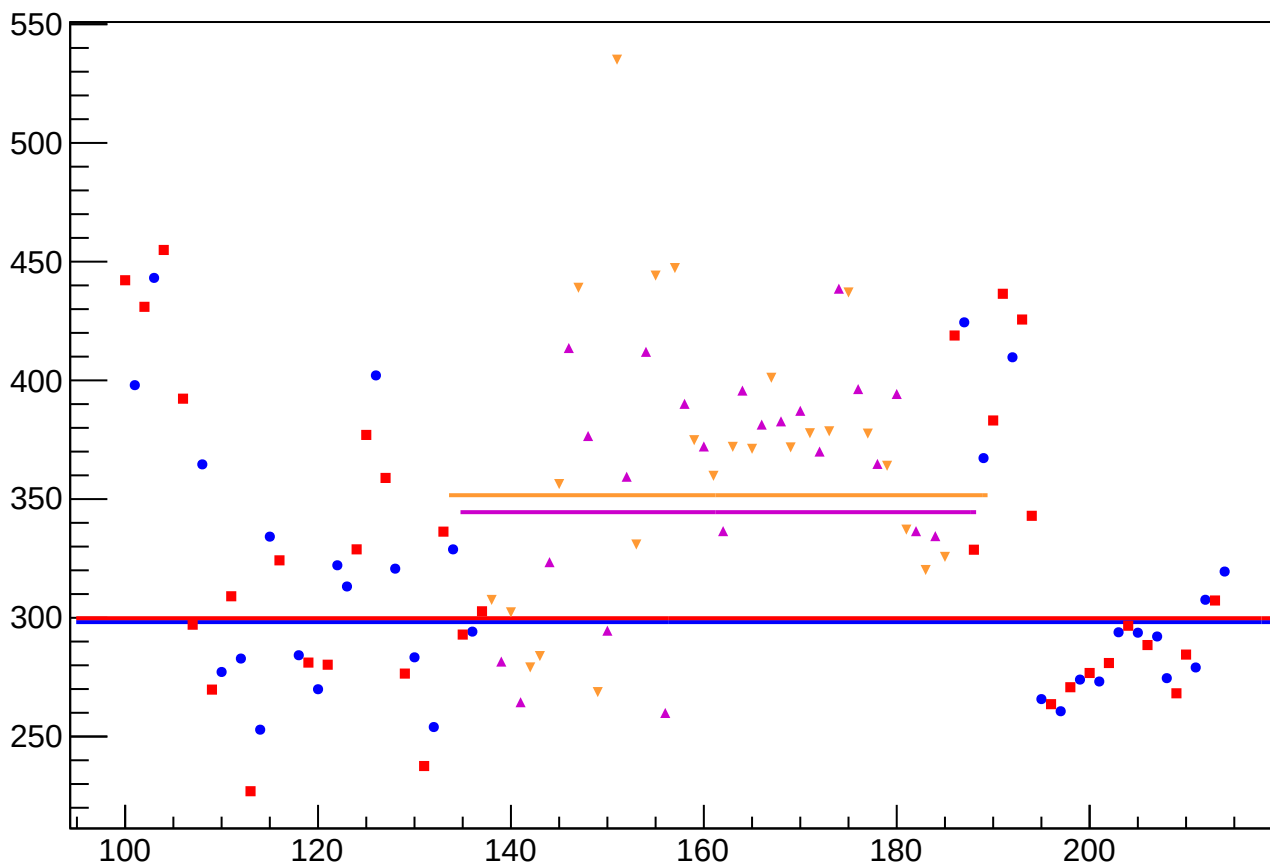
Right: 285.977 ± 52.117 $\chi^2/\text{NDF}: 9258.2/64$

In: 141.061 ± 55.627 $\chi^2/\text{NDF}: 4218.8/53$

Out: 536.171 ± 55.117 $\chi^2/\text{NDF}: 6099.2/58$

All: 340.434 ± 39.153 $\chi^2/\text{NDF}: 10343.5/112$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 298.193+/-0.052 χ^2/NDF : 633992.9/30

Left Out: 351.633+/-0.059 χ^2/NDF : 907849.3/24

Right Out: 299.829+/-0.052 χ^2/NDF : 894271.9/33

Left In: 344.491+/-0.060 χ^2/NDF : 768885.4/22

Left: 348.104+/-0.042 χ^2/NDF : 1683981.7/47

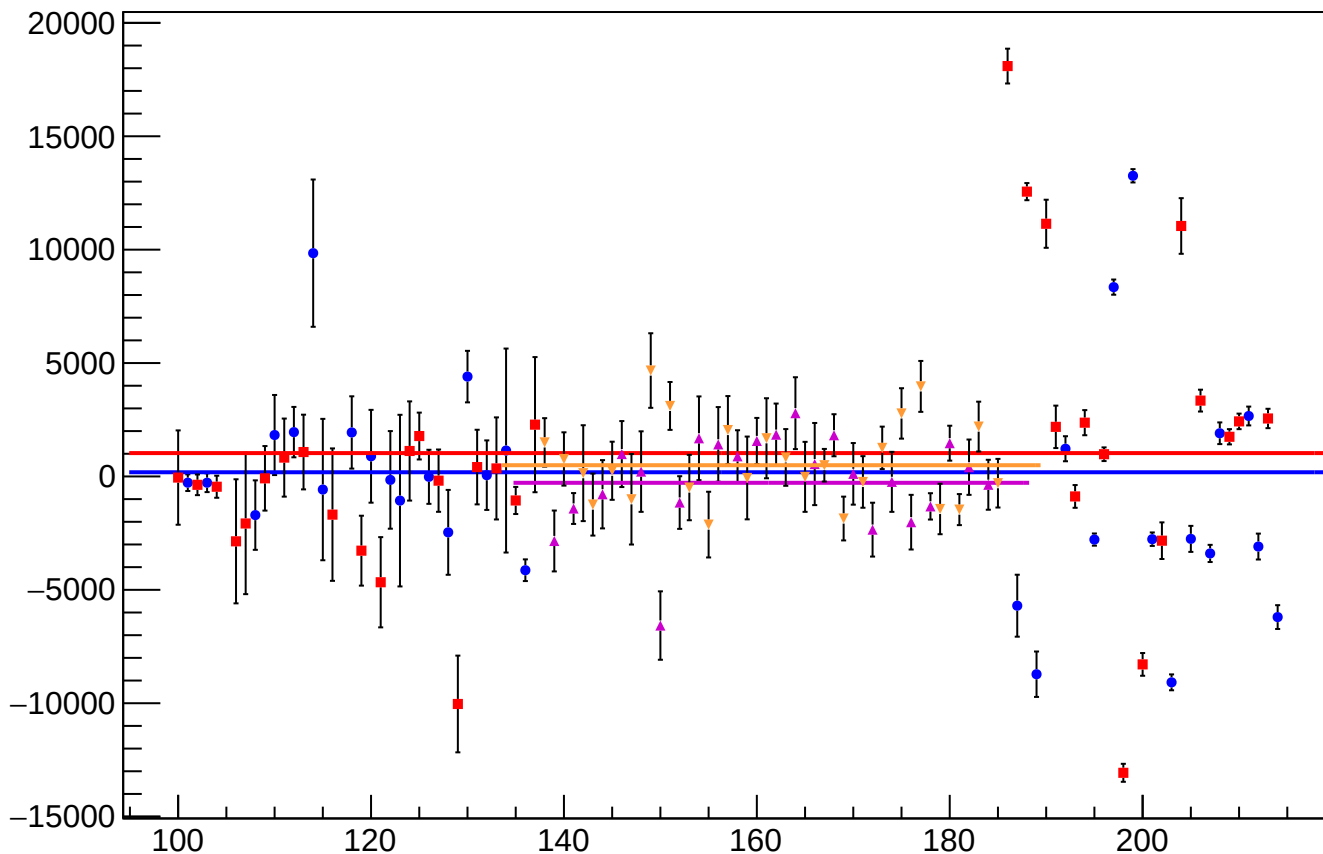
Right: 299.017+/-0.037 χ^2/NDF : 1528757.8/64

In: 318.308+/-0.039 χ^2/NDF : 1743285.3/53

Out: 322.456+/-0.039 χ^2/NDF : 2236745.9/58

All: 320.401+/-0.028 χ^2/NDF : 3985643.4/112

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 184.580 $\pm$ 96.158 χ^2 /NDF: 4054.0/30

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF:56.2/24

Right Out: 1029.800 $\pm$ 108.141 χ^2 /NDF: 3373.8/33

Left In: -280.692 $\pm$ 232.048 χ^2 /NDF:57.2/22

Left: 108.818 $\pm$ 163.732 χ^2 /NDF: 119.1/47

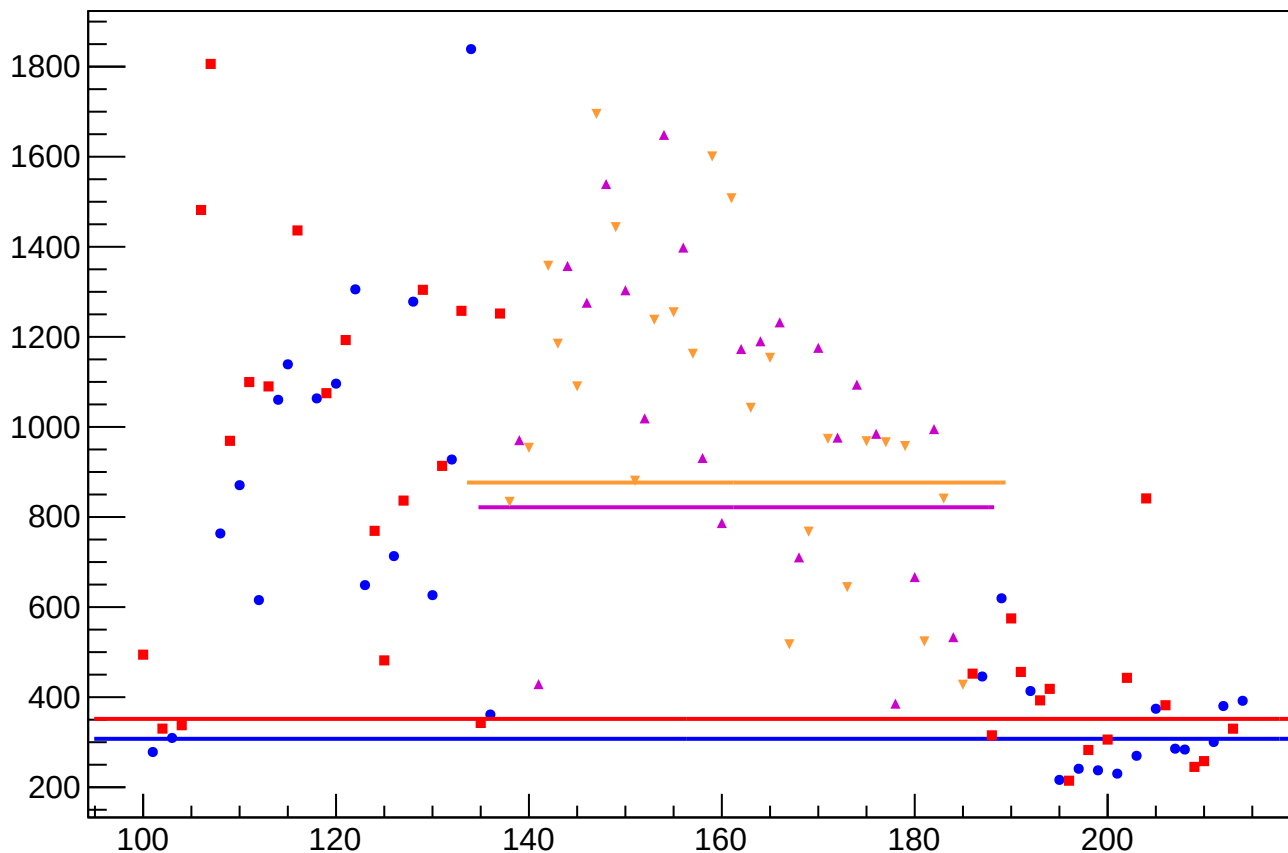
Right: 557.785 $\pm$ 71.858 χ^2 /NDF: 7462.0/64

In: 116.393 $\pm$ 88.833 χ^2 /NDF:4114.6/53

Out: 933.707 $\pm$ 97.944 χ^2 /NDF:3434.5/58

All: 485.274 $\pm$ 65.800 χ^2 /NDF: 7587.3/112

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 307.542 +/- 0.068 χ^2/NDF : 4496061.0/30

Left Out: 876.560 +/- 0.163 χ^2/NDF : 3434698.7/24

Right Out: 351.784 +/- 0.076 χ^2/NDF : 5922820.5/33

Left In: 821.657 +/- 0.164 χ^2/NDF : 4443094.2/22

Left: 849.226 +/- 0.116 χ^2/NDF : 7934012.4/47

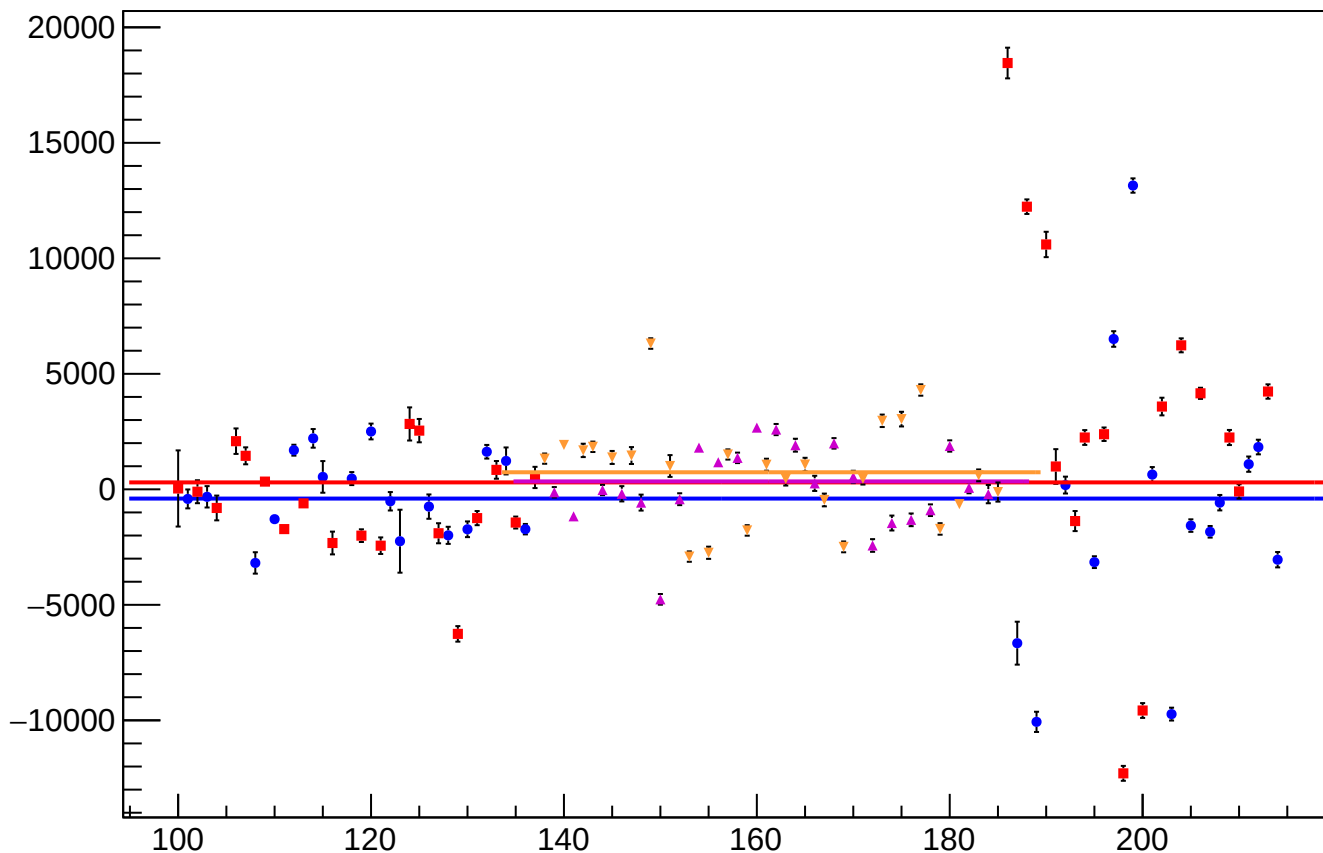
Right: 327.077 +/- 0.051 χ^2/NDF : 10605823.9/64

In: 382.886 +/- 0.063 χ^2/NDF : 17317820.8/53

Out: 446.079 +/- 0.069 χ^2/NDF : 17820361.1/58

All: 411.407 +/- 0.047 χ^2/NDF : 35594967.0/11

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -400.114 ± 59.340 $\chi^2/\text{NDF}: 4678.9/30$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 299.949 ± 57.189 $\chi^2/\text{NDF}: 6832.6/33$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

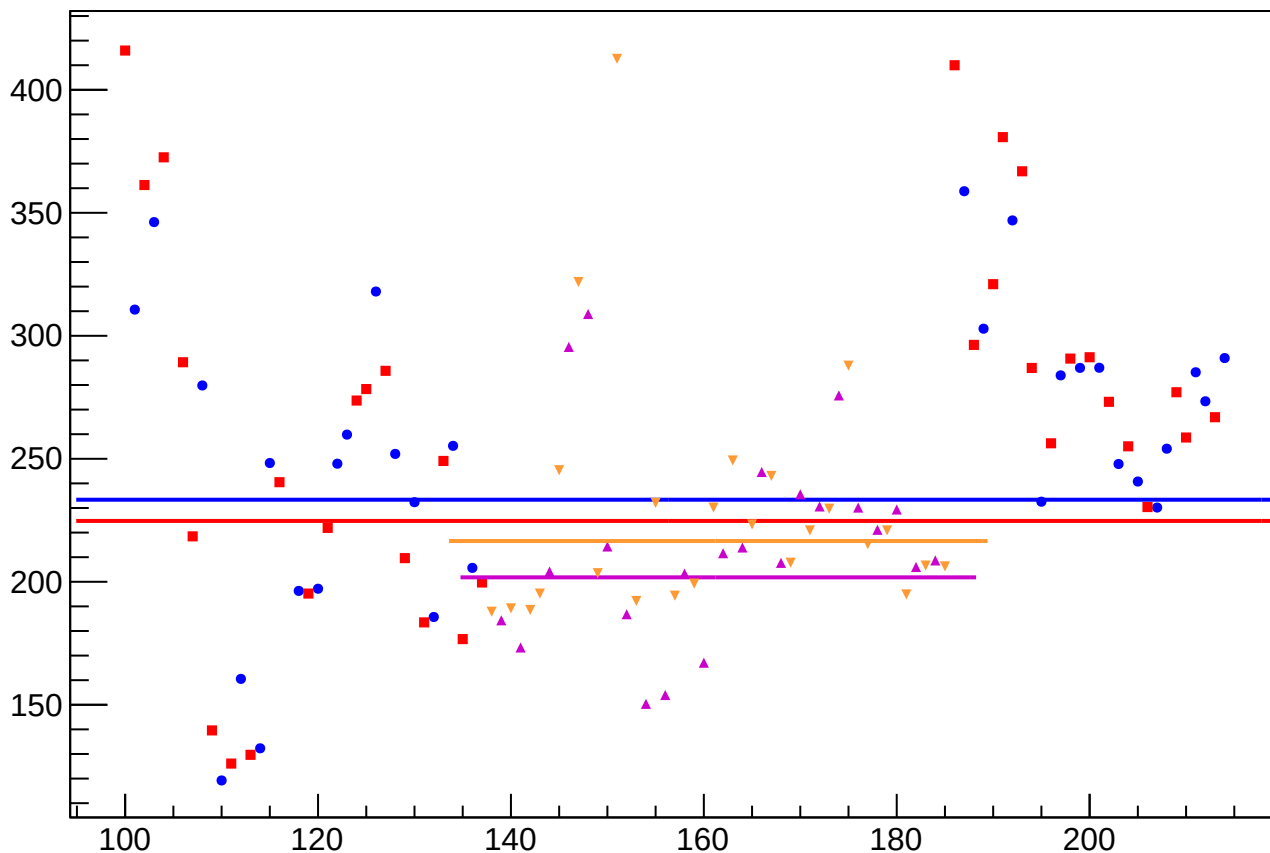
Right: -37.167 ± 41.178 $\chi^2/\text{NDF}: 11583.6/64$

In: 33.827 ± 38.256 $\chi^2/\text{NDF}: 6025.3/53$

Out: 541.681 ± 38.331 $\chi^2/\text{NDF}: 8800.2/58$

All: 287.258 ± 27.077 $\chi^2/\text{NDF}: 14913.5/112$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 233.364 ± 0.042 $\chi^2/\text{NDF}: 1943747.2/30$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 224.744 ± 0.040 $\chi^2/\text{NDF}: 2959645.6/33$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

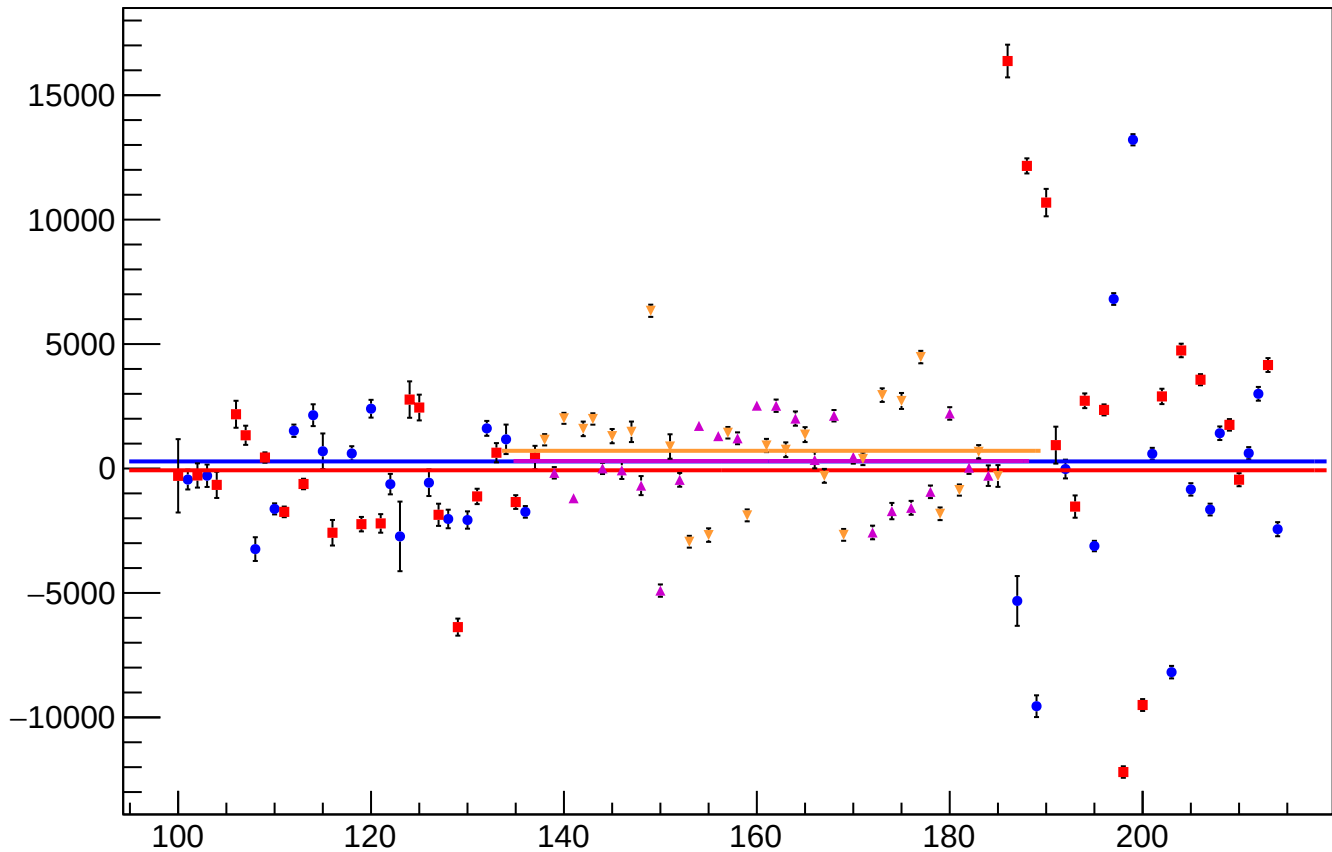
Right: 228.895 ± 0.029 $\chi^2/\text{NDF}: 4925272.7/64$

In: 214.922 ± 0.027 $\chi^2/\text{NDF}: 3361567.1/53$

Out: 220.244 ± 0.027 $\chi^2/\text{NDF}: 3868342.6/58$

All: 217.578 ± 0.019 $\chi^2/\text{NDF}: 7249226.9/112$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 284.888+/-54.822 χ^2/NDF : 6679.5/30

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -71.631+/-53.929 χ^2/NDF : 8769.0/33

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

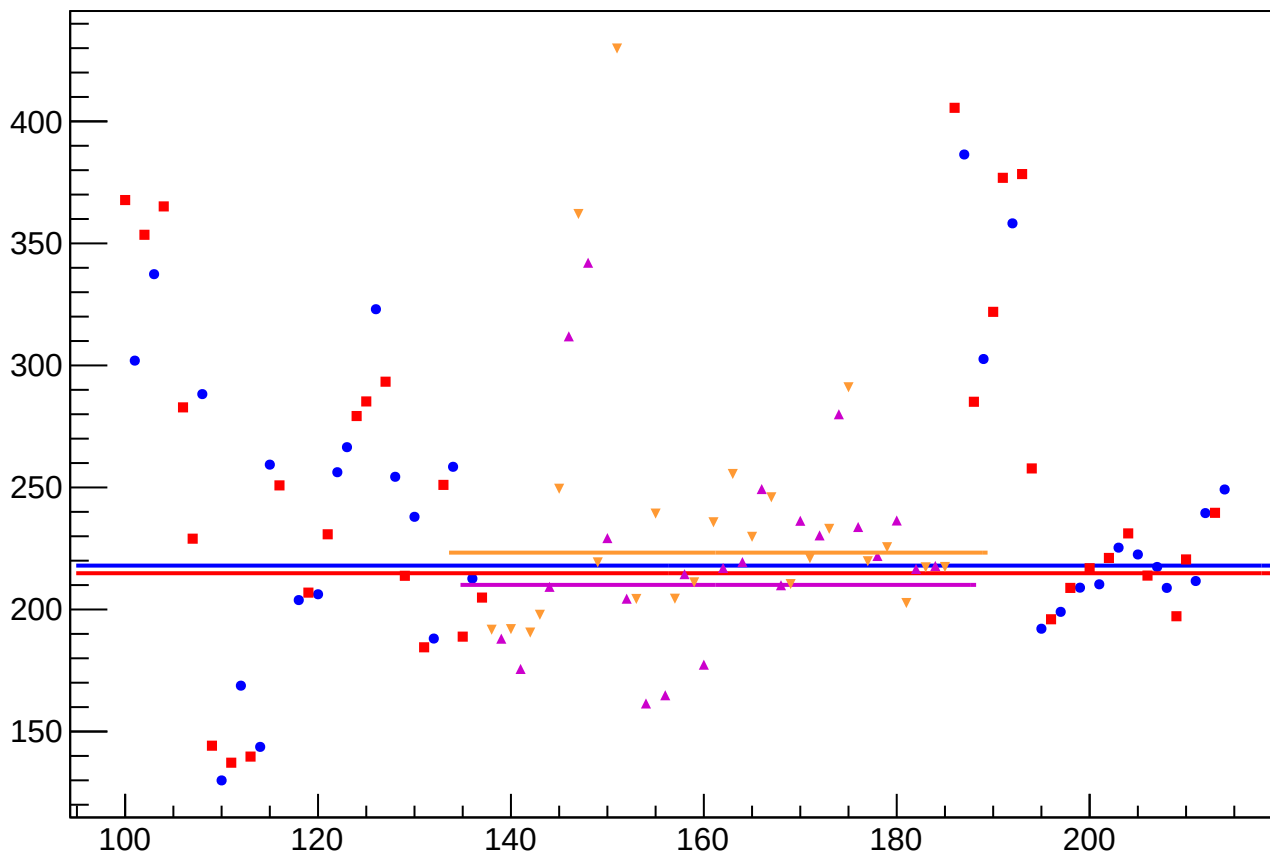
Right: 103.701+/-38.445 χ^2/NDF : 15470.0/64

In: 293.117+/-37.722 χ^2/NDF :7888.2/53

Out: 324.765+/-37.889 χ^2/NDF :10711.0/58

All: 308.871+/-26.732 χ^2/NDF : 18599.5/112

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 217.982 ± 0.039 $\chi^2/\text{NDF}: 1386737.8/30$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 214.858 ± 0.038 $\chi^2/\text{NDF}: 2121744.5/33$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

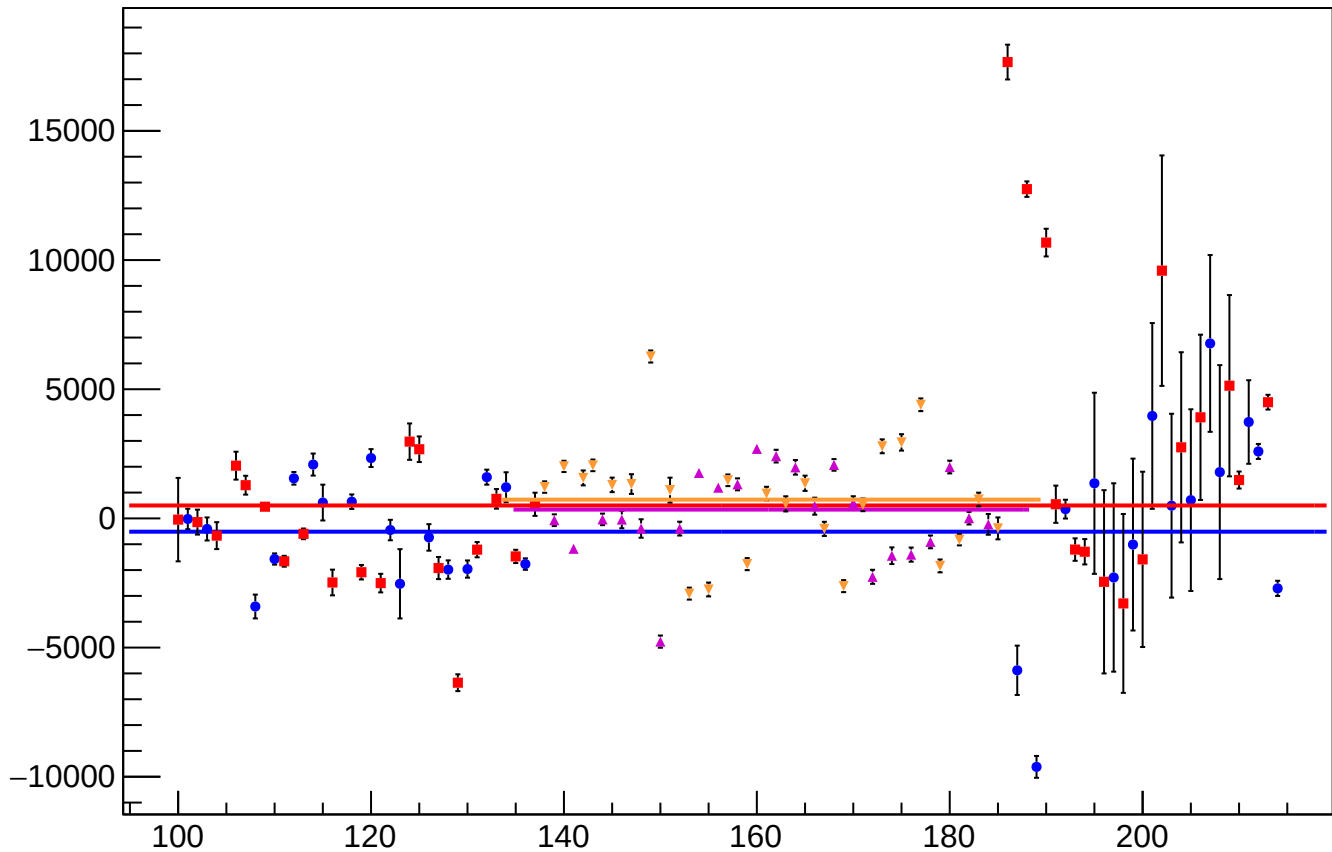
Right: 216.394 ± 0.027 $\chi^2/\text{NDF}: 3511784.3/64$

In: 213.821 ± 0.027 $\chi^2/\text{NDF}: 2423894.5/53$

Out: 219.131 ± 0.027 $\chi^2/\text{NDF}: 3069310.4/58$

All: 216.464 ± 0.019 $\chi^2/\text{NDF}: 5512929.3/112$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -514.353 ± 73.752 $\chi^2/\text{NDF}: 1076.7/30$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: 500.897 ± 66.560 $\chi^2/\text{NDF}: 3862.5/33$

Left In: 340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

Left: 528.110 ± 36.393 $\chi^2/\text{NDF}: 3142.6/47$

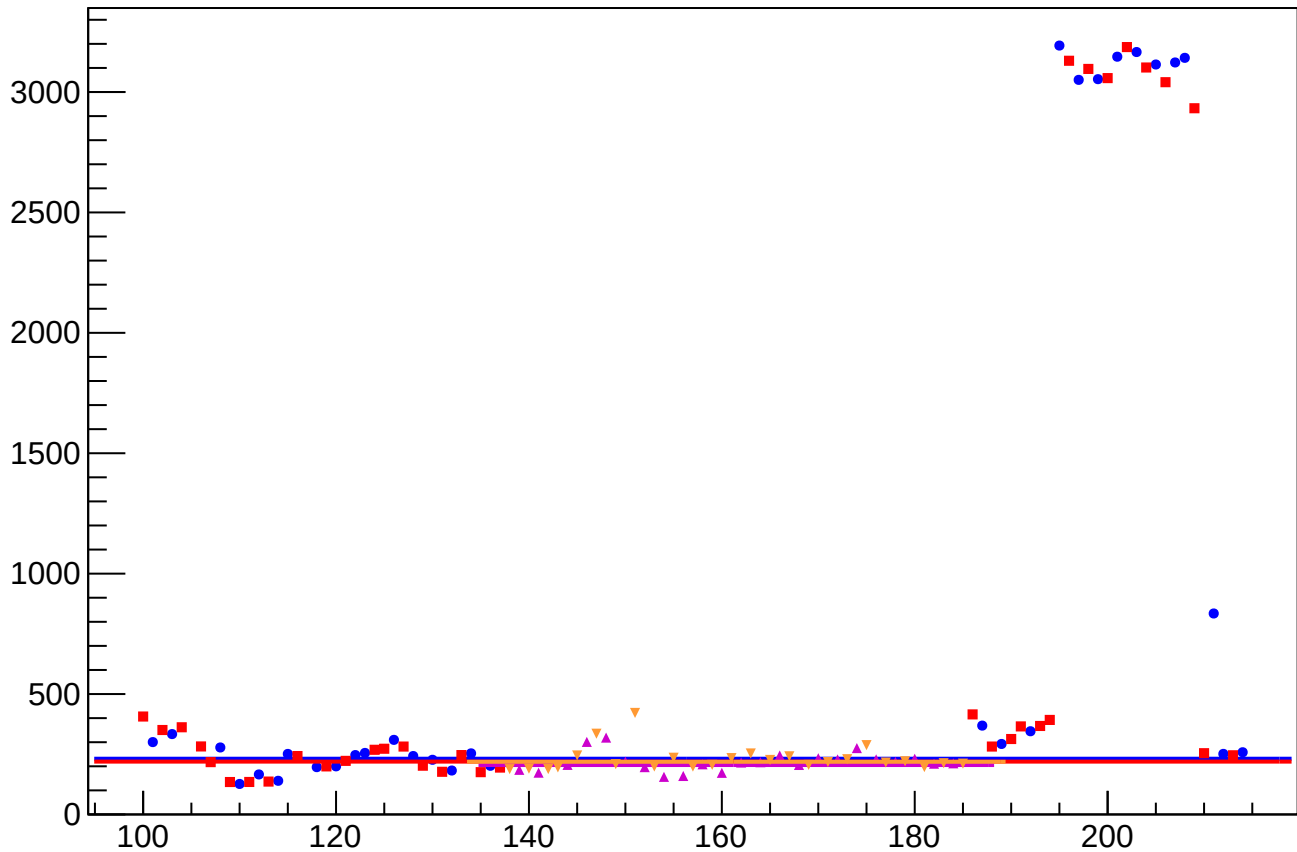
Right: 45.171 ± 49.413 $\chi^2/\text{NDF}: 5043.7/64$

In: 65.413 ± 41.837 $\chi^2/\text{NDF}: 2369.7/53$

Out: 640.277 ± 41.055 $\chi^2/\text{NDF}: 5782.3/58$

All: 358.272 ± 29.303 $\chi^2/\text{NDF}: 8248.2/112$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 231.434+/-0.052 χ^2/NDF : 12164814.3/30

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 219.455+/-0.047 χ^2/NDF : 11495508.0/33

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

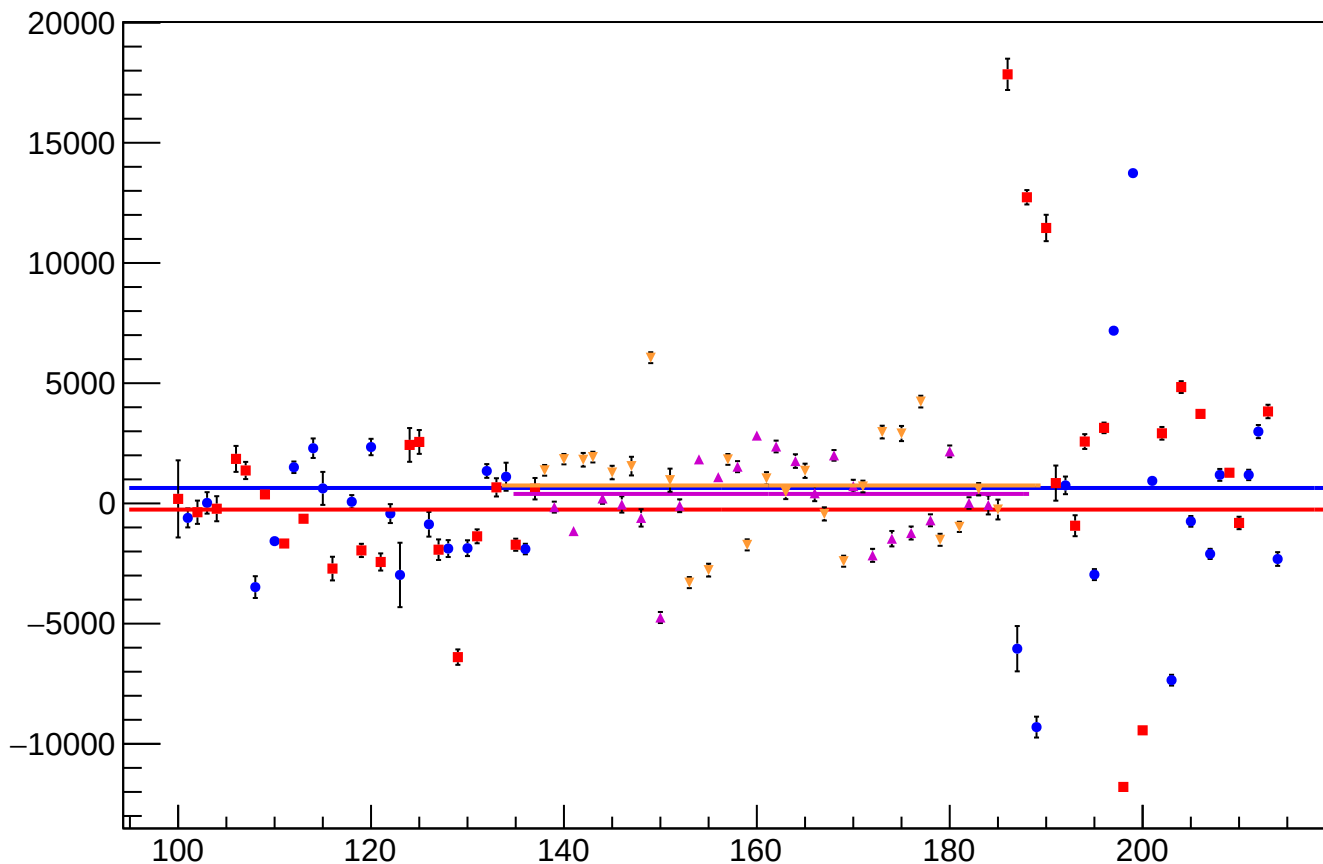
Right: 224.832+/-0.035 χ^2/NDF : 23689398.0/64

In: 213.675+/-0.030 χ^2/NDF : 13332958.6/53

Out: 219.030+/-0.029 χ^2/NDF : 12392554.4/58

All: 216.403+/-0.021 χ^2/NDF : 25742202.8/11

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 642.023+/-51.143 χ^2/NDF : 8639.9/30

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: -256.584+/-50.480 χ^2/NDF : 10591.2/33

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

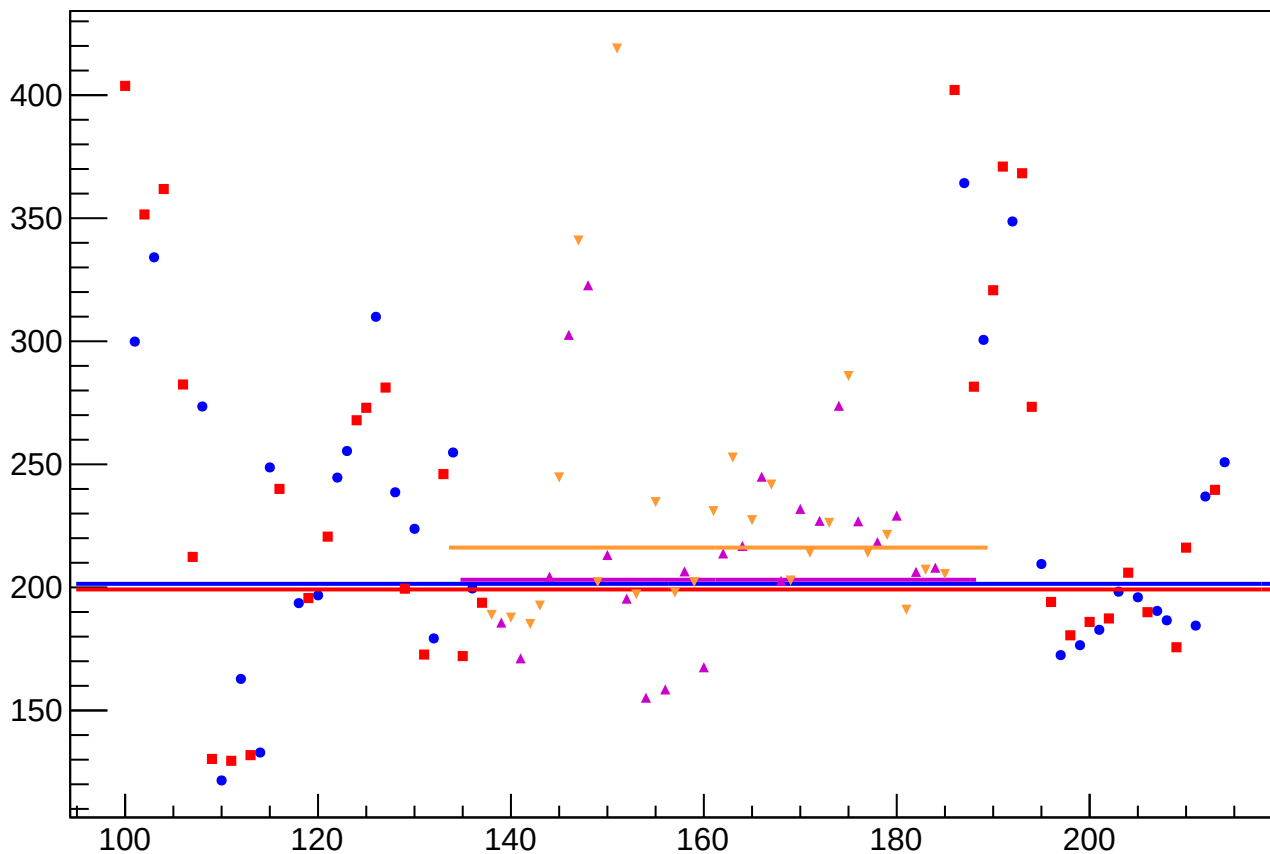
Right: 186.860+/-35.927 χ^2/NDF : 19387.5/64

In: 516.171+/-35.866 χ^2/NDF :9888.2/53

Out: 233.988+/-36.081 χ^2/NDF :12726.4/58

All: 375.926+/-25.437 χ^2/NDF : 22645.4/112

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 201.447+/-0.036 χ^2/NDF : 1638507.9/30

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 199.168+/-0.036 χ^2/NDF : 2517916.1/33

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

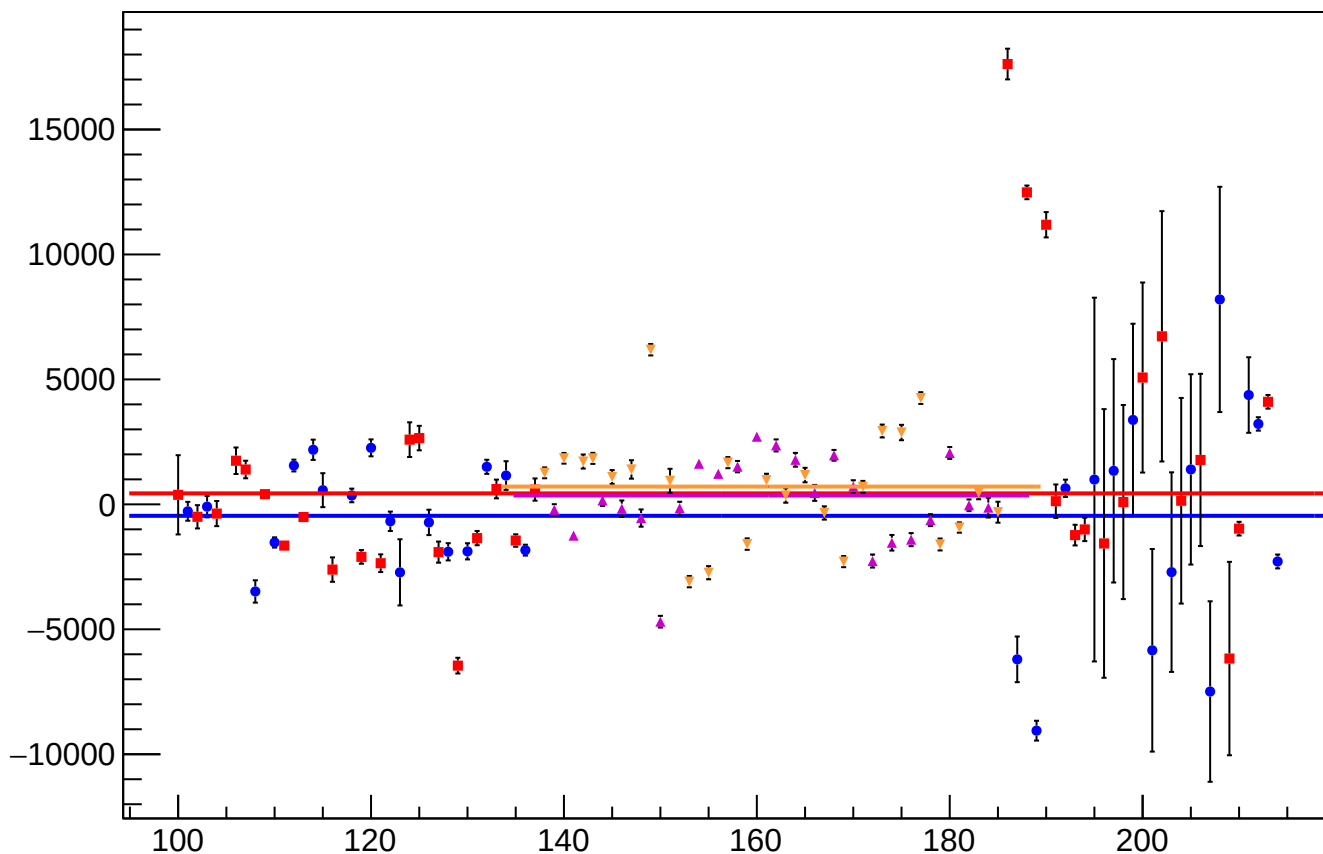
Right: 200.293+/-0.025 χ^2/NDF : 4158434.6/64

In: 202.287+/-0.025 χ^2/NDF : 2677584.3/53

Out: 207.488+/-0.026 χ^2/NDF : 3575035.0/58

All: 204.872+/-0.018 χ^2/NDF : 6273518.6/112

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -459.034+/-70.981 χ^2/NDF : 1171.2/30

Left Out: 710.238+/-50.750 χ^2/NDF :1932.3/24

Right Out: 439.254+/-63.402 χ^2/NDF : 4377.7/33

Left In: 352.432+/-49.316 χ^2/NDF :1233.1/22

Left: 526.207+/-35.368 χ^2/NDF : 3190.9/47

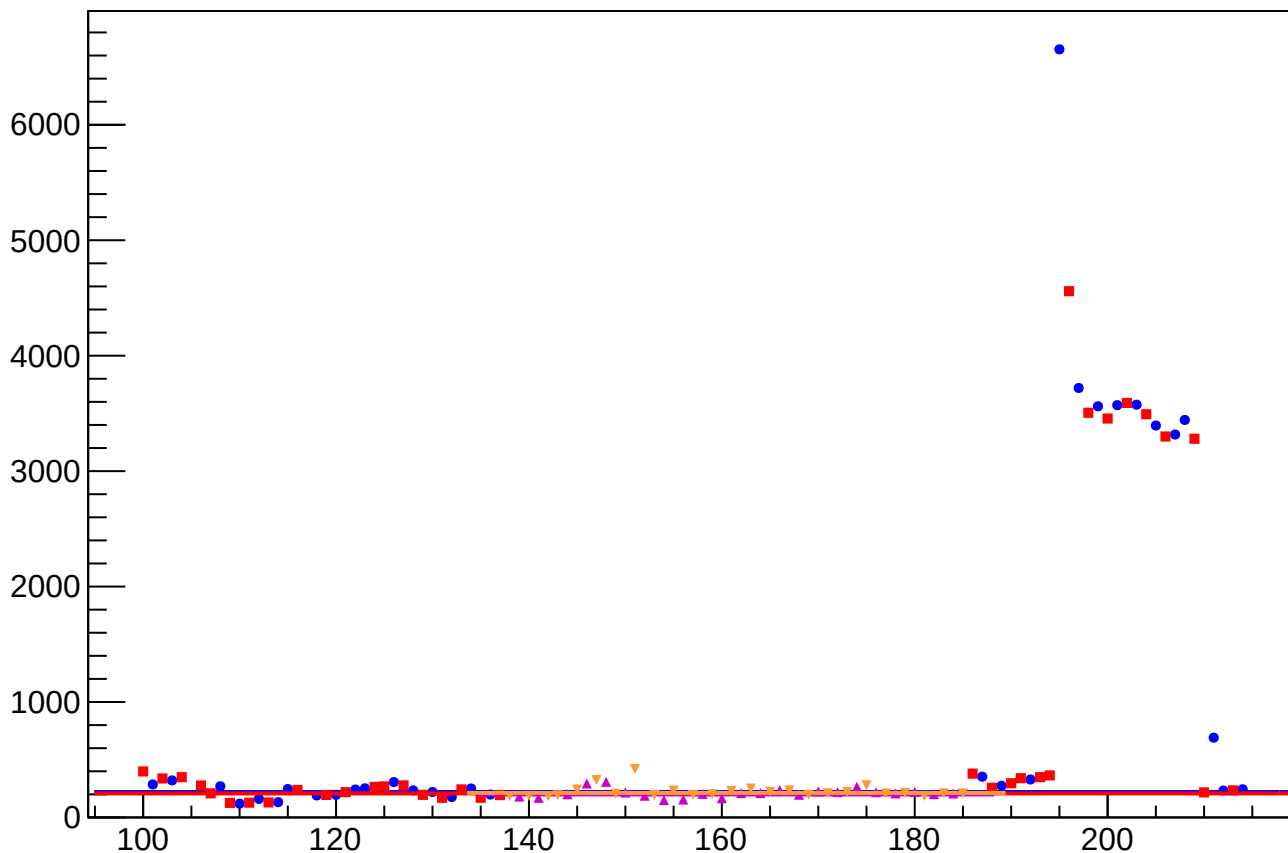
Right: 40.616+/-47.285 χ^2/NDF : 5638.0/64

In: 88.252+/-40.500 χ^2/NDF :2492.4/53

Out: 604.414+/-39.621 χ^2/NDF :6321.2/58

All: 352.001+/-28.322 χ^2/NDF : 8896.5/112

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 220.642 $\pm$ 0.050 χ^2 /NDF: 12521435.7/30

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 207.918 $\pm$ 0.045 χ^2 /NDF: 11730153.1/33

Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2 /NDF: 1975772.3/47

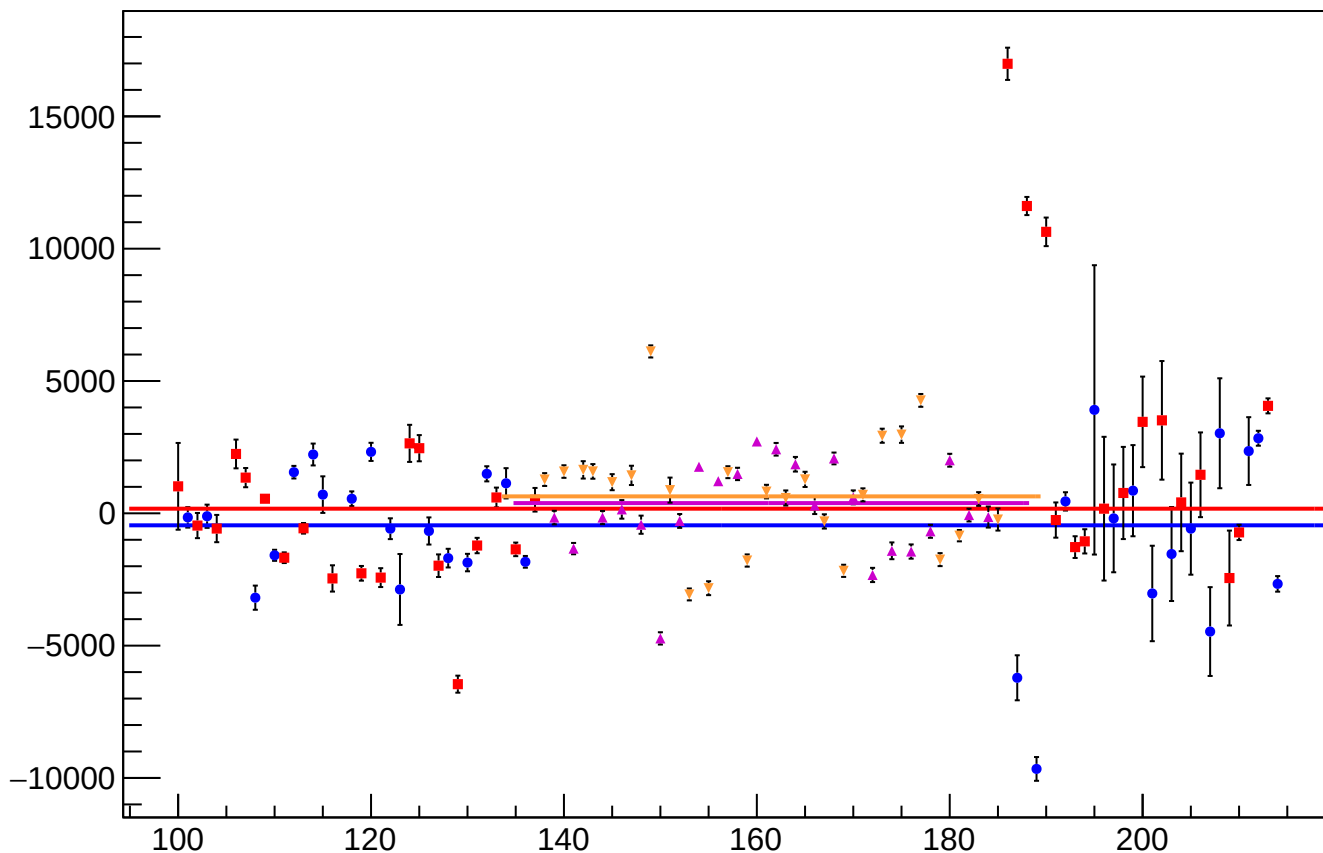
Right: 213.564 $\pm$ 0.033 χ^2 /NDF: 24287338.0/64

In: 206.142 $\pm$ 0.029 χ^2 /NDF: 13631122.4/53

Out: 210.844 $\pm$ 0.028 χ^2 /NDF: 12653368.0/58

All: 208.544 $\pm$ 0.020 χ^2 /NDF: 26298265.4/11

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -453.559 ± 72.208 $\chi^2/\text{NDF}: 1070.4/30$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 174.953 ± 65.119 $\chi^2/\text{NDF}: 3309.4/33$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

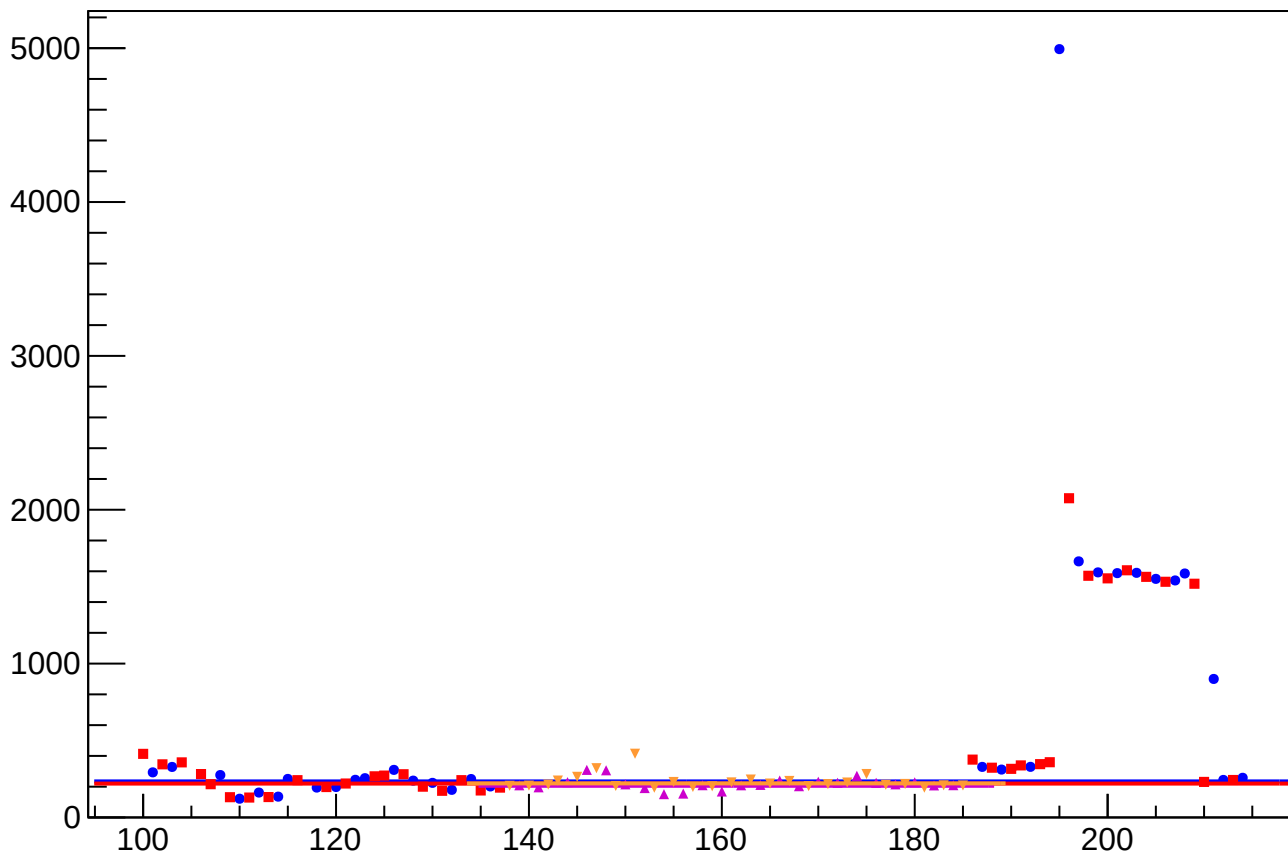
Right: -106.942 ± 48.358 $\chi^2/\text{NDF}: 4421.6/64$

In: 106.789 ± 41.654 $\chi^2/\text{NDF}: 2398.7/53$

Out: 455.917 ± 40.969 $\chi^2/\text{NDF}: 5199.5/58$

All: 284.245 ± 29.209 $\chi^2/\text{NDF}: 7633.9/112$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 234.330 $\pm$ 0.051 χ^2 /NDF: 11293137.8/30

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 220.098 $\pm$ 0.046 χ^2 /NDF: 10175624.4/33

Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

Left: 213.343 $\pm$ 0.026 χ^2 /NDF: 1863169.5/47

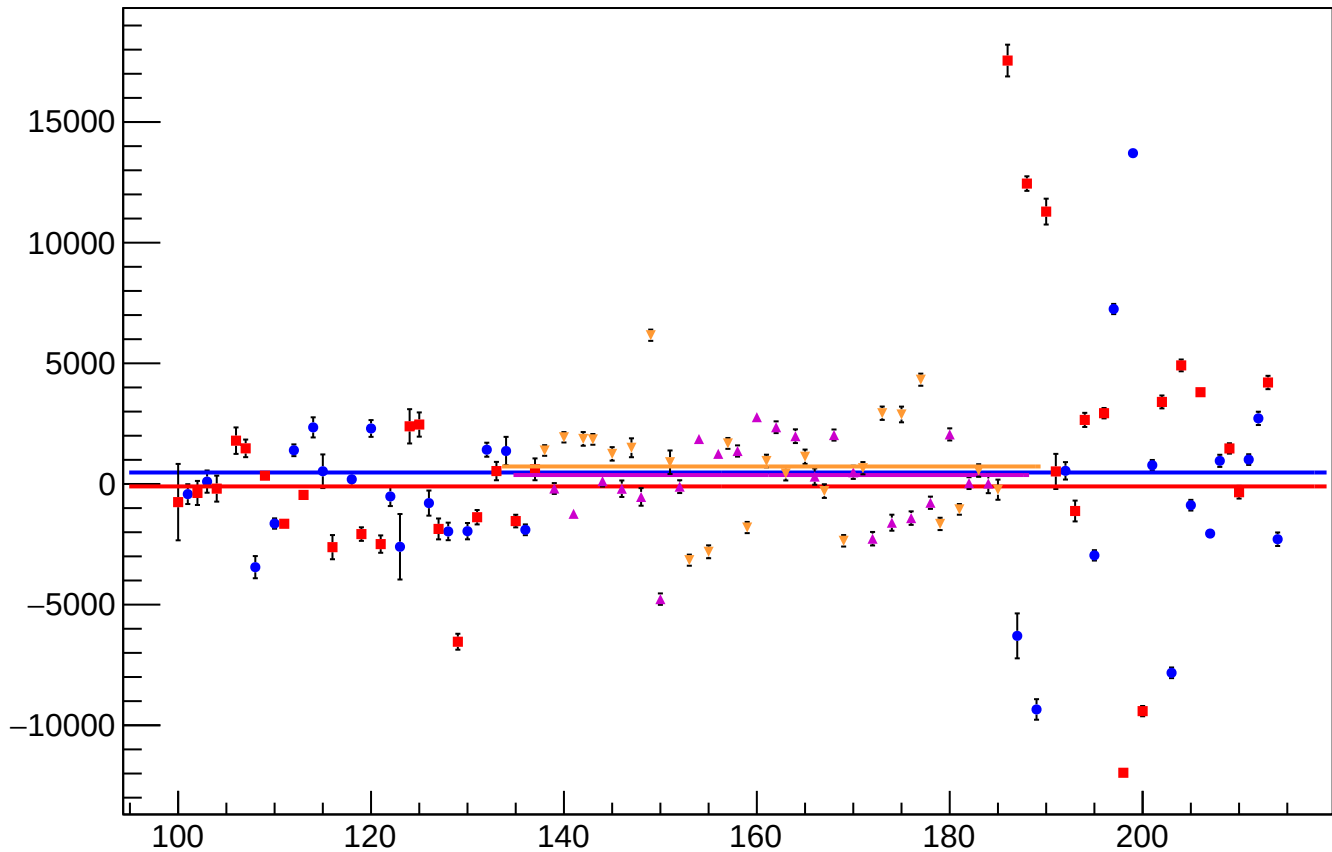
Right: 226.481 $\pm$ 0.034 χ^2 /NDF: 21511606.1/64

In: 215.296 $\pm$ 0.029 χ^2 /NDF: 12496314.6/53

Out: 220.884 $\pm$ 0.029 χ^2 /NDF: 10953939.5/58

All: 218.136 $\pm$ 0.021 χ^2 /NDF: 23468547.2/111

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 475.689+/-51.610 χ^2/NDF : 8610.2/30

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: -101.283+/-51.220 χ^2/NDF : 10296.7/33

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

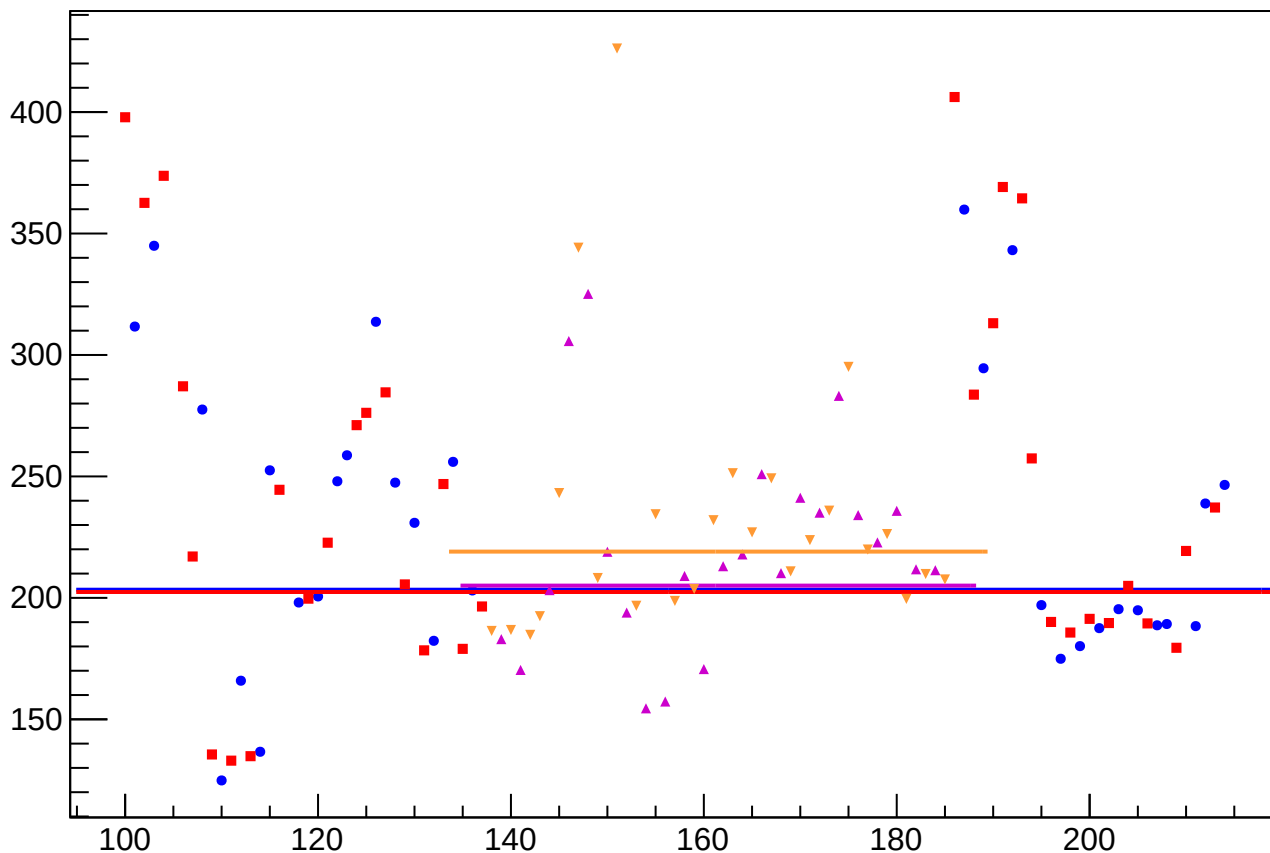
Right: 185.014+/-36.355 χ^2/NDF : 18969.9/64

In: 422.303+/-36.235 χ^2/NDF :9835.5/53

Out: 303.304+/-36.596 χ^2/NDF :12307.3/58

All: 363.395+/-25.749 χ^2/NDF : 22148.1/112

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 203.360 ± 0.036 $\chi^2/\text{NDF}: 1580945.4/30$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 202.425 ± 0.036 $\chi^2/\text{NDF}: 2358158.5/33$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

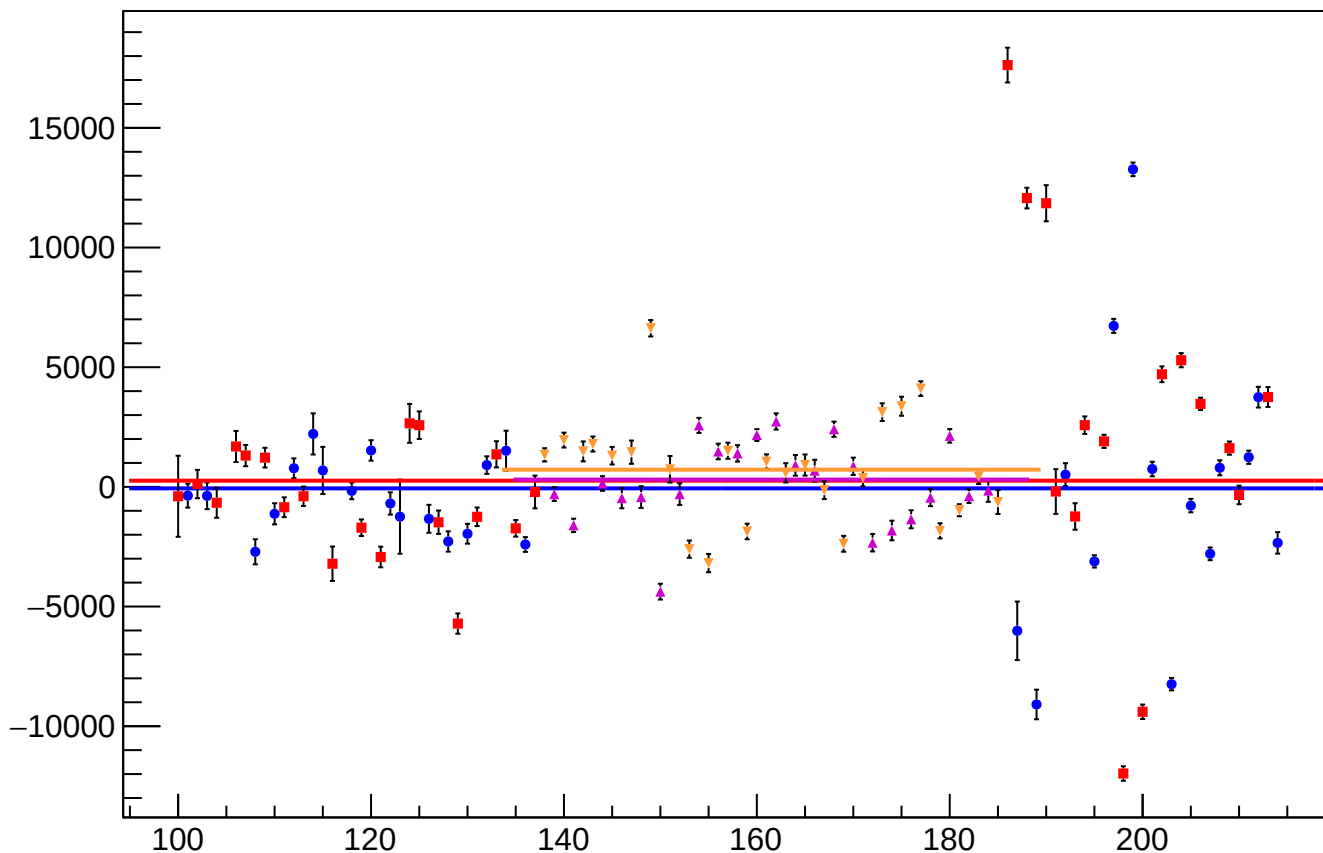
Right: 202.889 ± 0.026 $\chi^2/\text{NDF}: 3939434.7/64$

In: 204.215 ± 0.026 $\chi^2/\text{NDF}: 2726225.5/53$

Out: 210.562 ± 0.026 $\chi^2/\text{NDF}: 3436847.4/58$

All: 207.357 ± 0.018 $\chi^2/\text{NDF}: 6193450.3/112$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -62.572 ± 69.118 $\chi^2/\text{NDF}: 4528.5/30$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 258.394 ± 70.965 $\chi^2/\text{NDF}: 5427.0/33$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

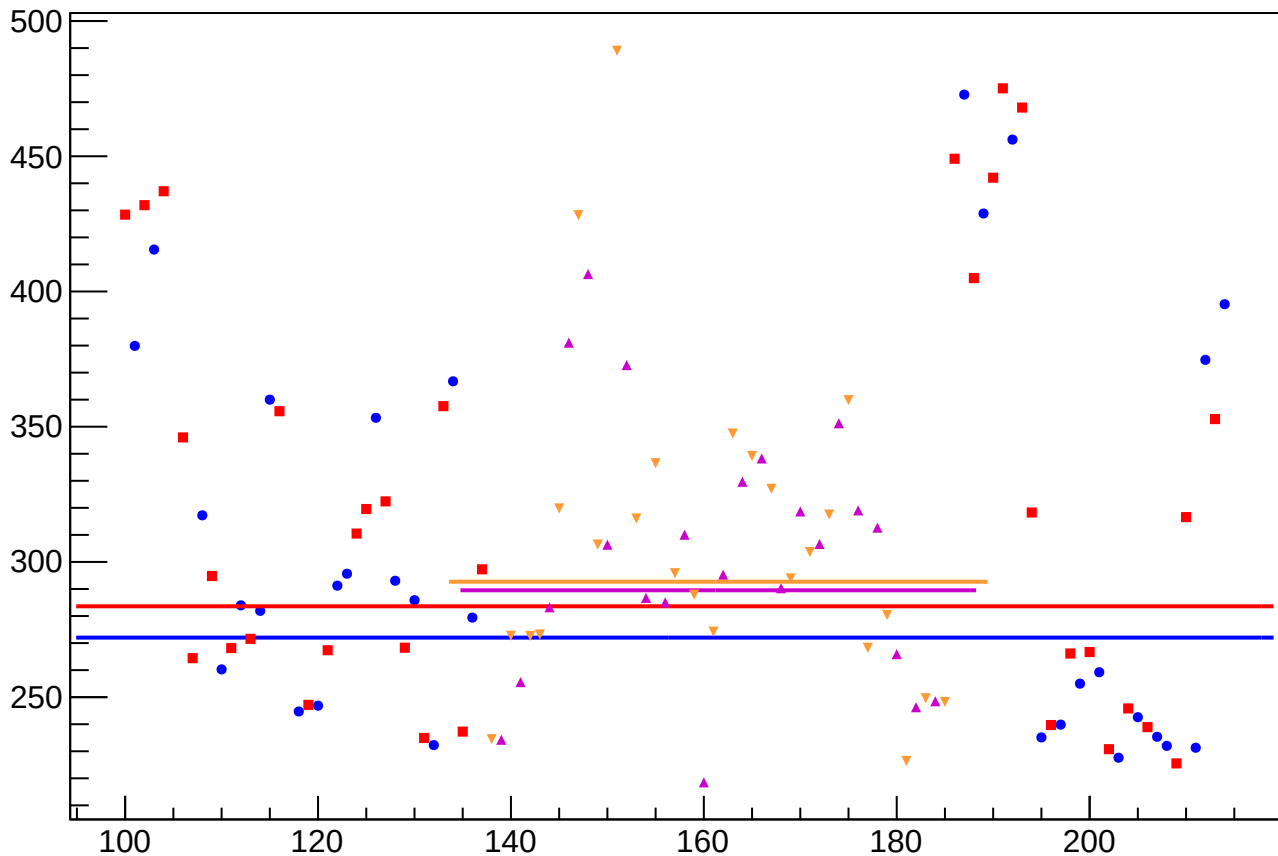
Right: 93.681 ± 49.514 $\chi^2/\text{NDF}: 9966.0/64$

In: 115.979 ± 49.511 $\chi^2/\text{NDF}: 5185.7/53$

Out: 493.017 ± 49.690 $\chi^2/\text{NDF}: 6467.0/58$

All: 303.818 ± 35.073 $\chi^2/\text{NDF}: 11681.6/112$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 272.027 ± 0.049 $\chi^2/\text{NDF}: 1390248.9/30$

Left Out: 292.686 ± 0.049 $\chi^2/\text{NDF}: 925193.6/24$

Right Out: 283.604 ± 0.050 $\chi^2/\text{NDF}: 1503641.8/33$

Left In: 289.522 ± 0.050 $\chi^2/\text{NDF}: 777901.0/22$

Left: 291.134 ± 0.035 $\chi^2/\text{NDF}: 1705121.5/47$

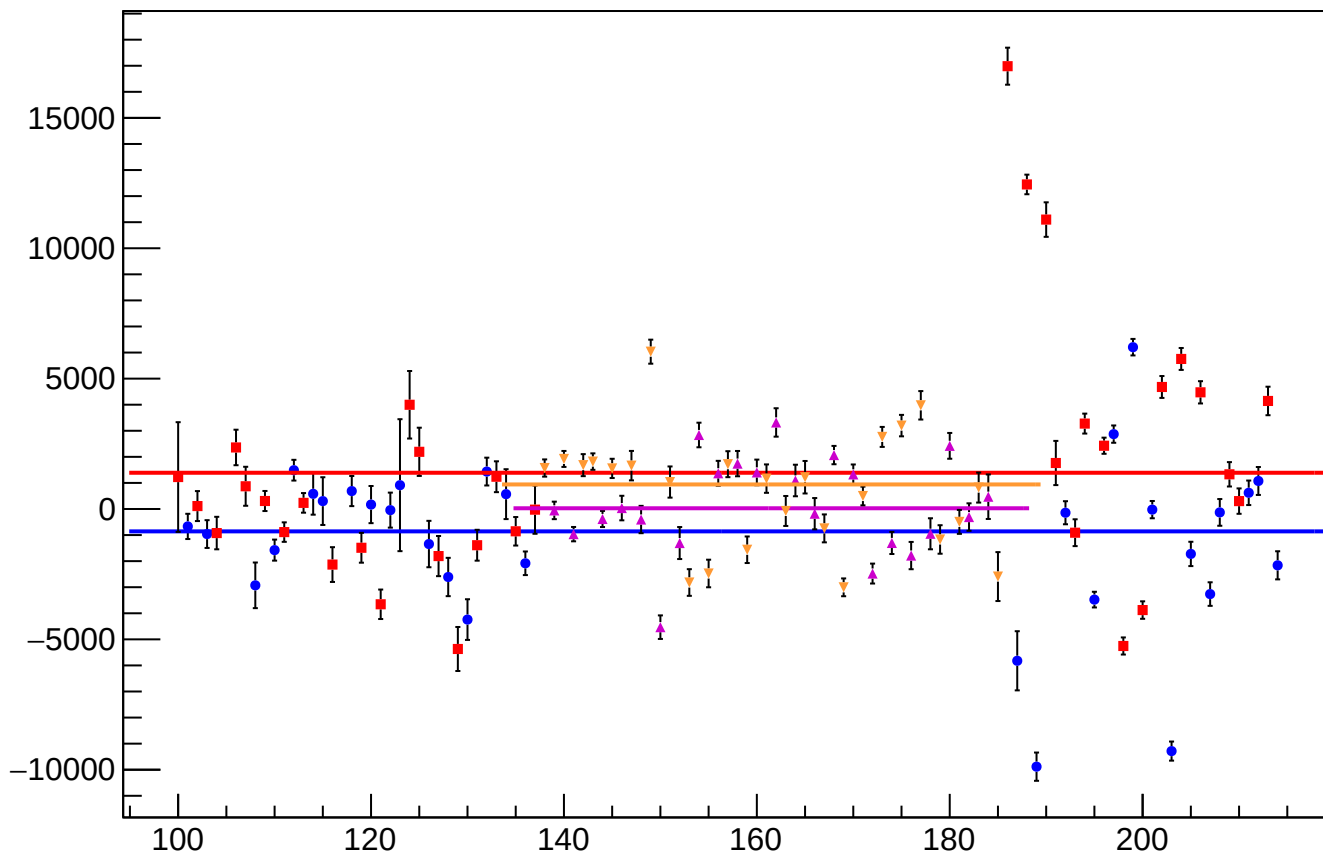
Right: 277.663 ± 0.035 $\chi^2/\text{NDF}: 2921207.8/64$

In: 280.544 ± 0.035 $\chi^2/\text{NDF}: 2230536.3/53$

Out: 288.233 ± 0.035 $\chi^2/\text{NDF}: 2445531.4/58$

All: 284.375 ± 0.025 $\chi^2/\text{NDF}: 4700095.7/112$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -858.380 ± 88.863 $\chi^2/\text{NDF}: 1709.8/30$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1389.640 ± 85.997 $\chi^2/\text{NDF}: 2864.2/33$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

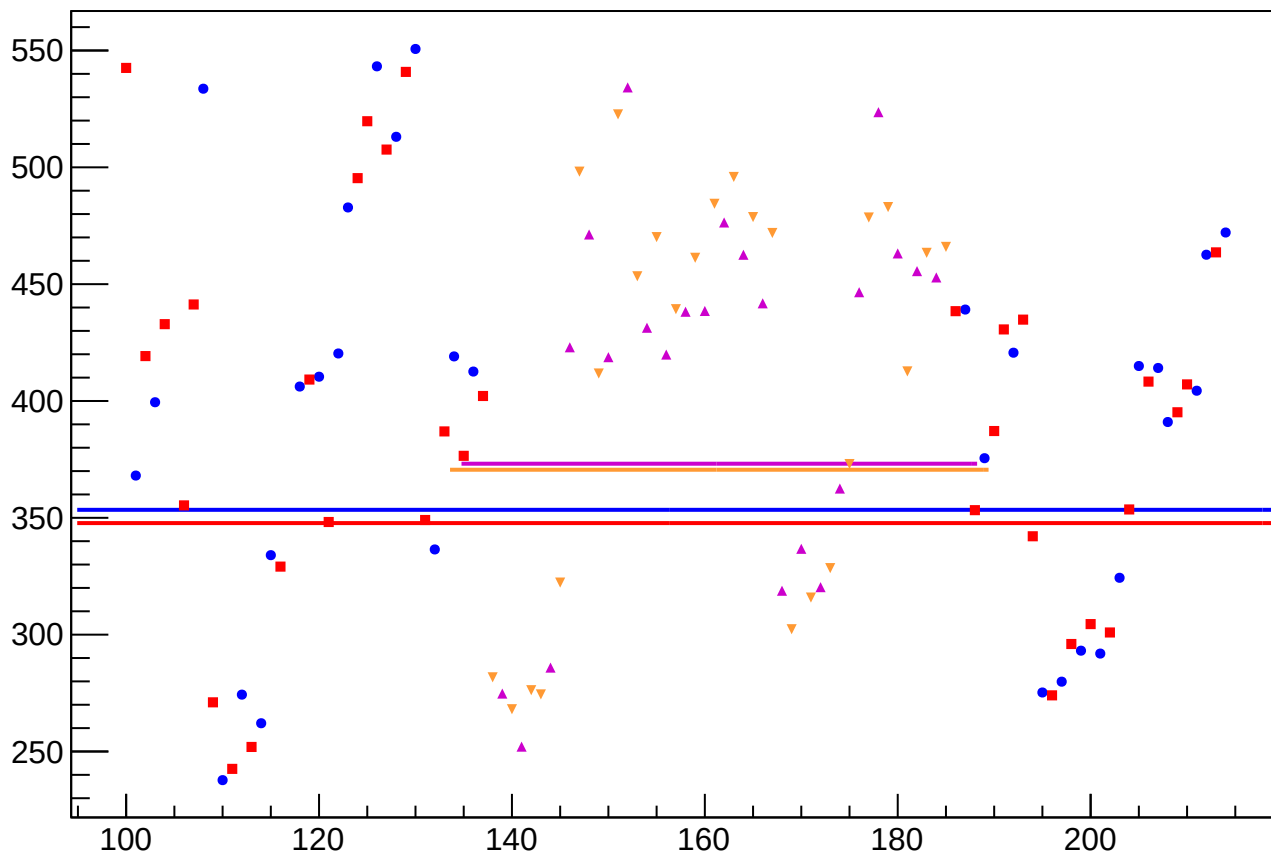
Right: 302.461 ± 61.797 $\chi^2/\text{NDF}: 4904.5/64$

In: -432.265 ± 64.026 $\chi^2/\text{NDF}: 2120.1/53$

Out: 1173.604 ± 61.883 $\chi^2/\text{NDF}: 3421.9/58$

All: 397.995 ± 44.497 $\chi^2/\text{NDF}: 5867.2/112$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 353.425+/-0.063 χ^2/NDF : 1519224.8/30

Left Out: 370.580+/-0.063 χ^2/NDF : 1878118.9/24

Right Out: 347.747+/-0.061 χ^2/NDF : 1335586.8/33

Left In: 373.161+/-0.065 χ^2/NDF : 1636244.2/22

Left: 371.824+/-0.045 χ^2/NDF : 3515172.3/47

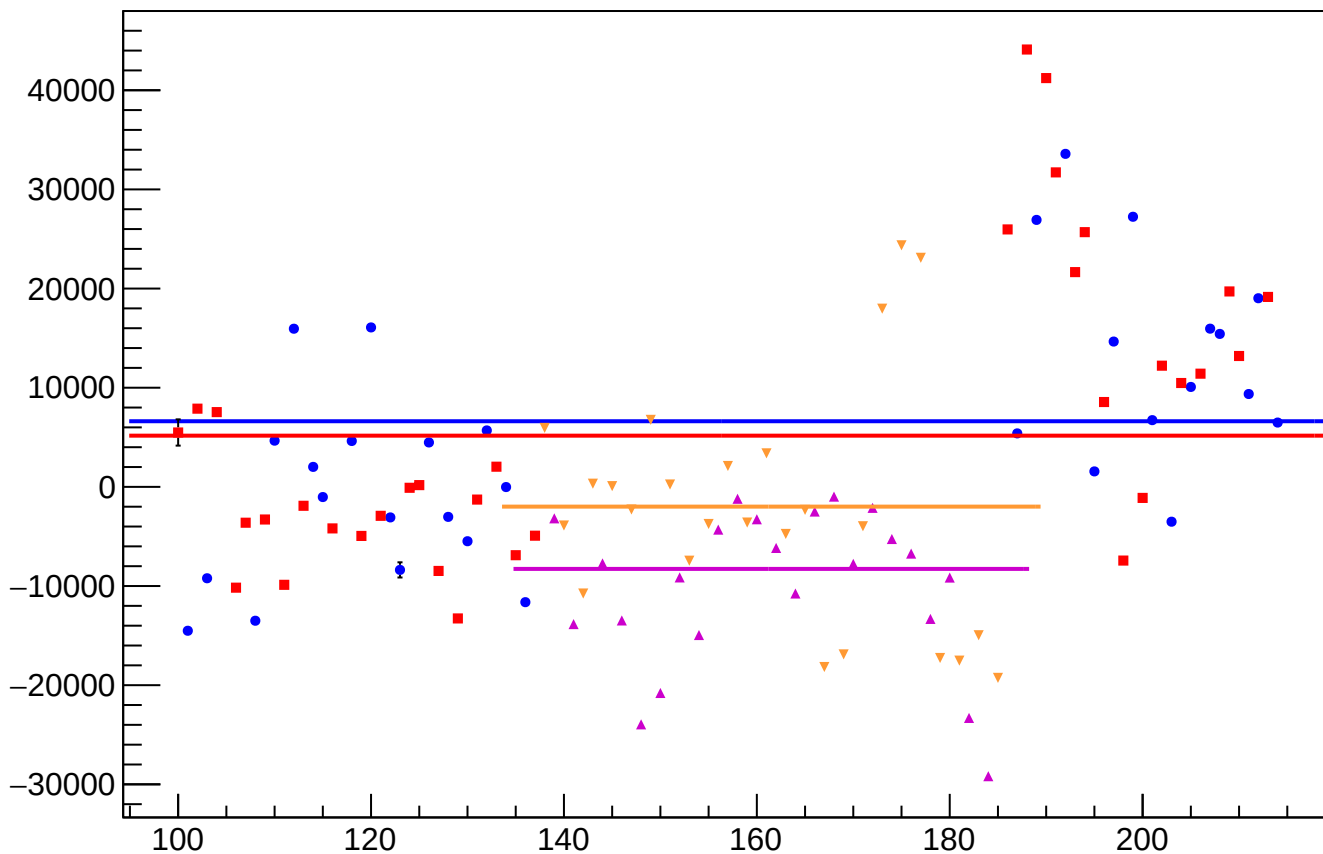
Right: 350.493+/-0.044 χ^2/NDF : 2859027.2/64

In: 362.915+/-0.045 χ^2/NDF : 3202908.0/53

Out: 358.757+/-0.044 χ^2/NDF : 3281683.7/58

All: 360.765+/-0.031 χ^2/NDF : 6488953.7/112

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6619.219 $\pm$ 40.121 χ^2/NDF : 93695.3/30

Left Out: -1991.788 $\pm$ 42.427 χ^2/NDF : 63766.6/24

Right Out: 5164.569 $\pm$ 38.756 χ^2/NDF : 144038.9/33

Left In: -8273.228 $\pm$ 44.301 χ^2/NDF : 22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2/NDF : 97123.2/47

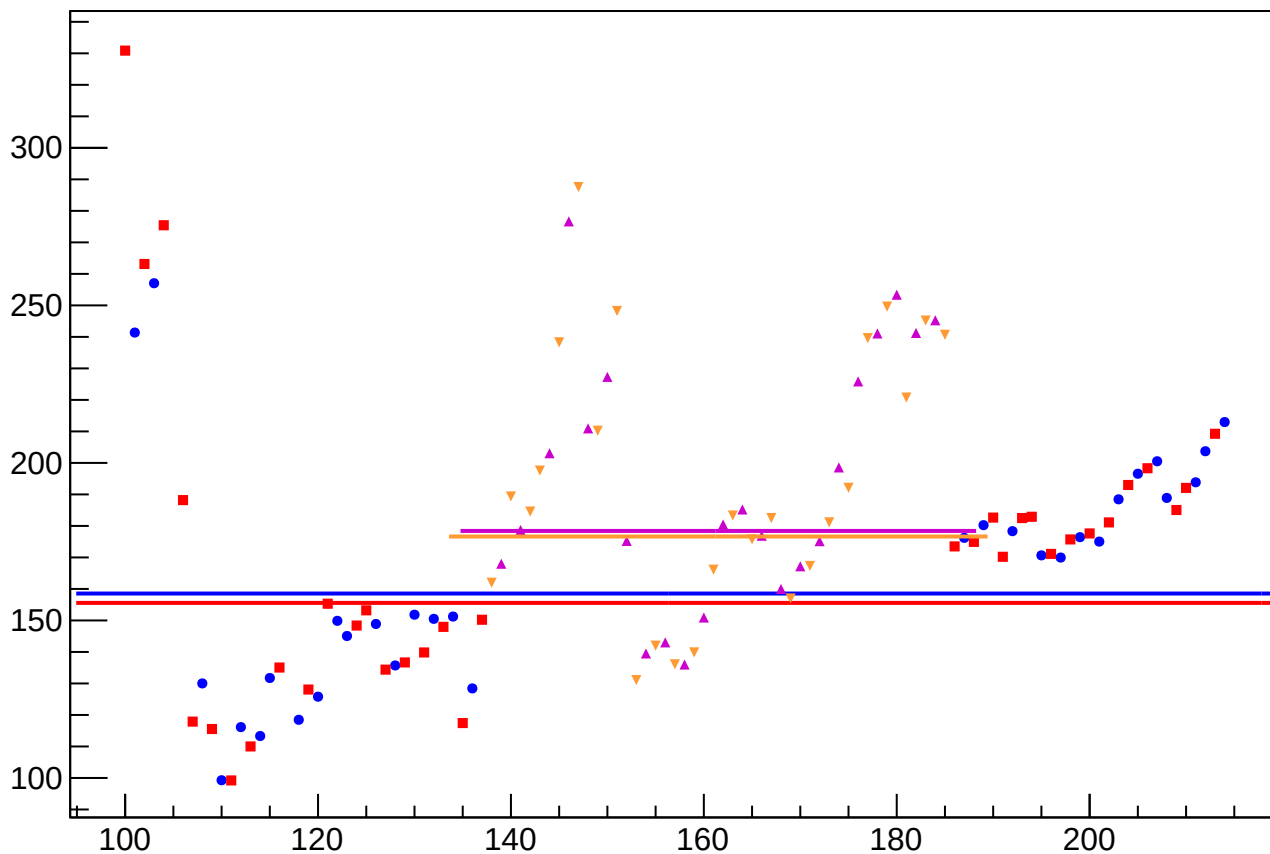
Right: 5866.727 $\pm$ 27.875 χ^2/NDF : 238414.1/64

In: -91.395 $\pm$ 29.738 χ^2/NDF : 178650.3/53

Out: 1909.320 $\pm$ 28.614 χ^2/NDF : 223315.0/58

All: 947.474 $\pm$ 20.619 χ^2/NDF : 404315.6/112

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 158.542 ± 0.028 χ^2/NDF : 1535456.2/30

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 155.571 ± 0.027 χ^2/NDF : 1731052.3/33

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

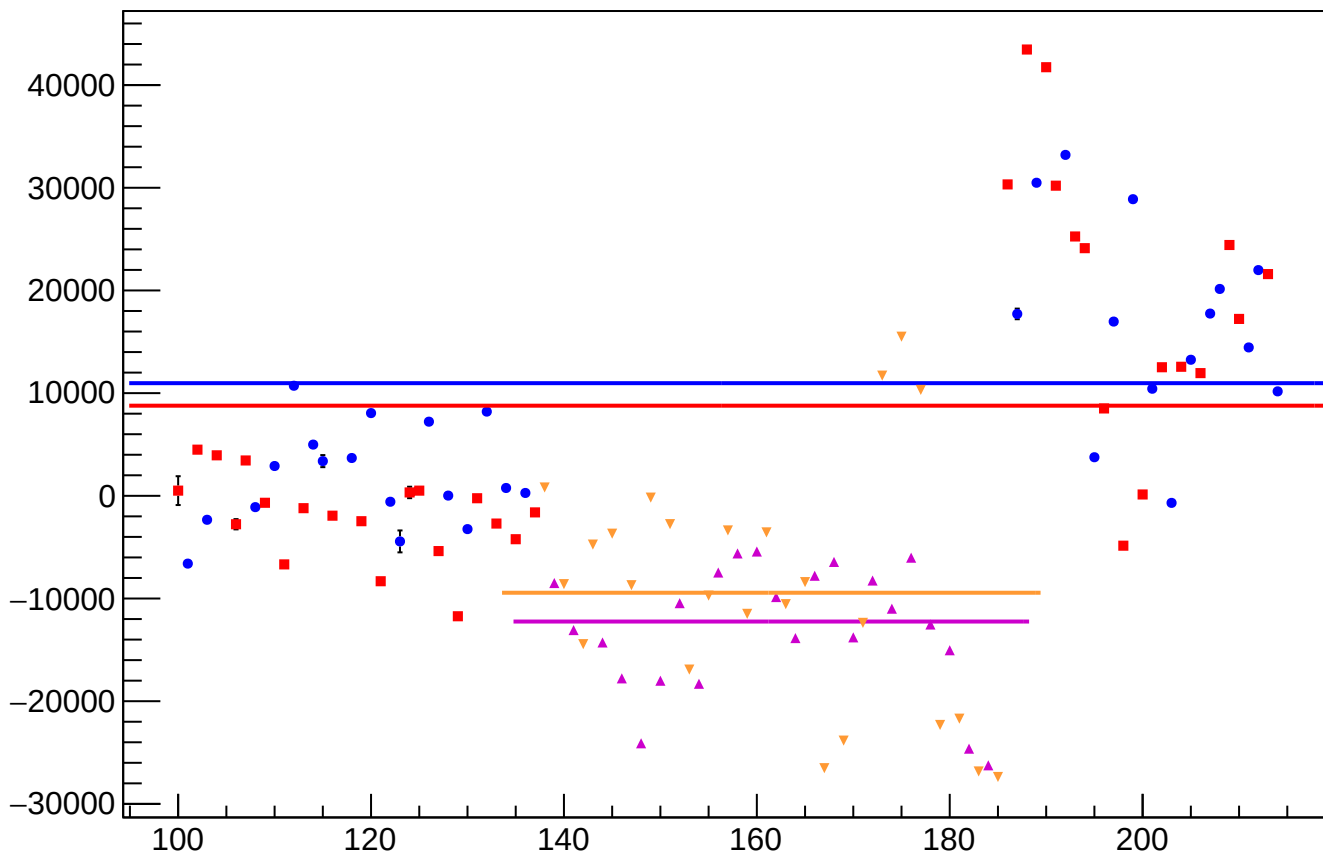
Right: 157.005 ± 0.020 χ^2/NDF : 3272179.1/64

In: 167.496 ± 0.021 χ^2/NDF : 3050270.7/53

Out: 165.155 ± 0.020 χ^2/NDF : 3550973.0/58

All: 166.281 ± 0.015 χ^2/NDF : 6607677.2/112

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10971.064+/-44.302

χ^2/NDF : 55139.6/30

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 8778.623+/-42.880

χ^2/NDF : 115696.0/33

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

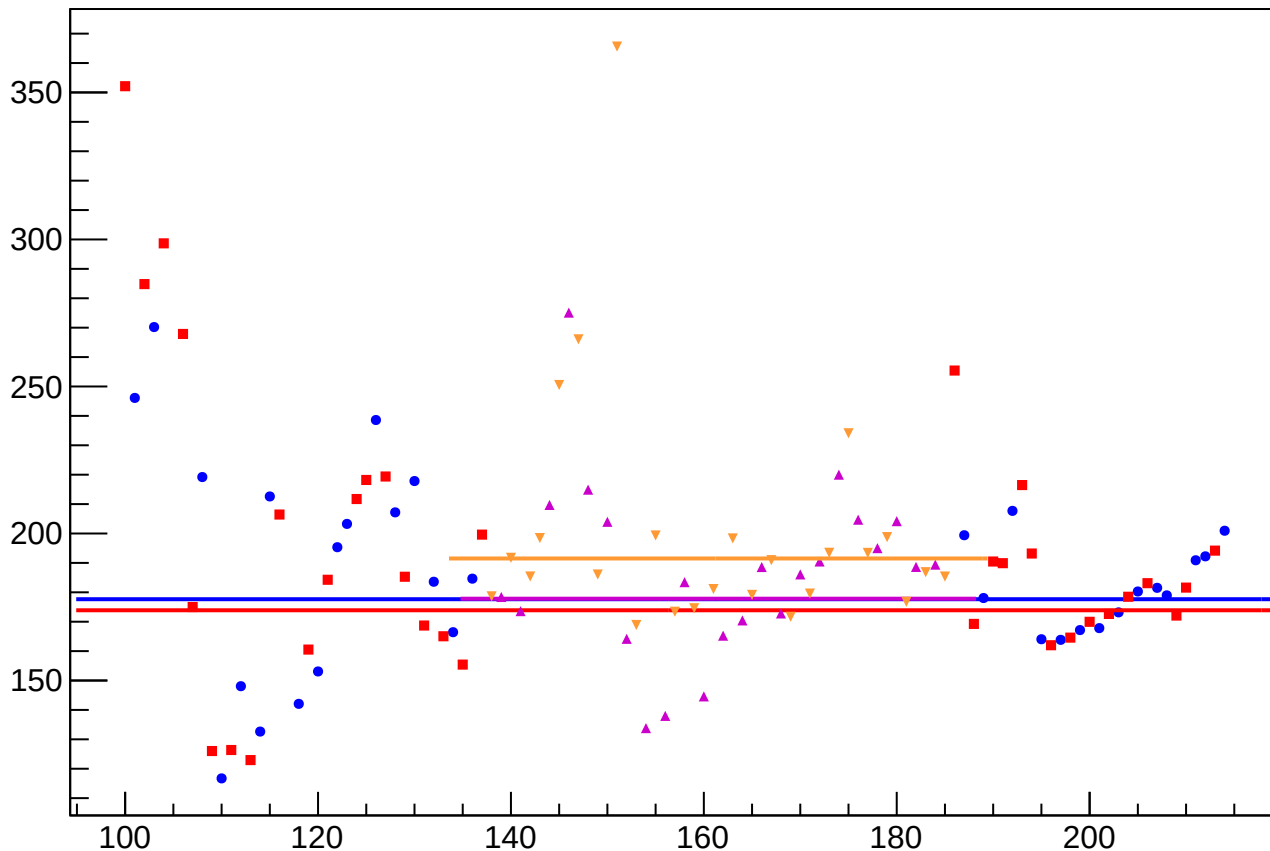
Right: 9839.084+/-30.811 χ^2/NDF : 172100.1/64

In: -729.760+/-31.199 χ^2/NDF : 210143.0/53

Out: 216.964+/-31.217 χ^2/NDF : 262736.7/58

All: -256.668+/-22.067 χ^2/NDF : 473339.9/11

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.652 ± 0.031 $\chi^2/\text{NDF}: 803427.1/30$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 173.891 ± 0.030 $\chi^2/\text{NDF}: 1151604.9/33$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

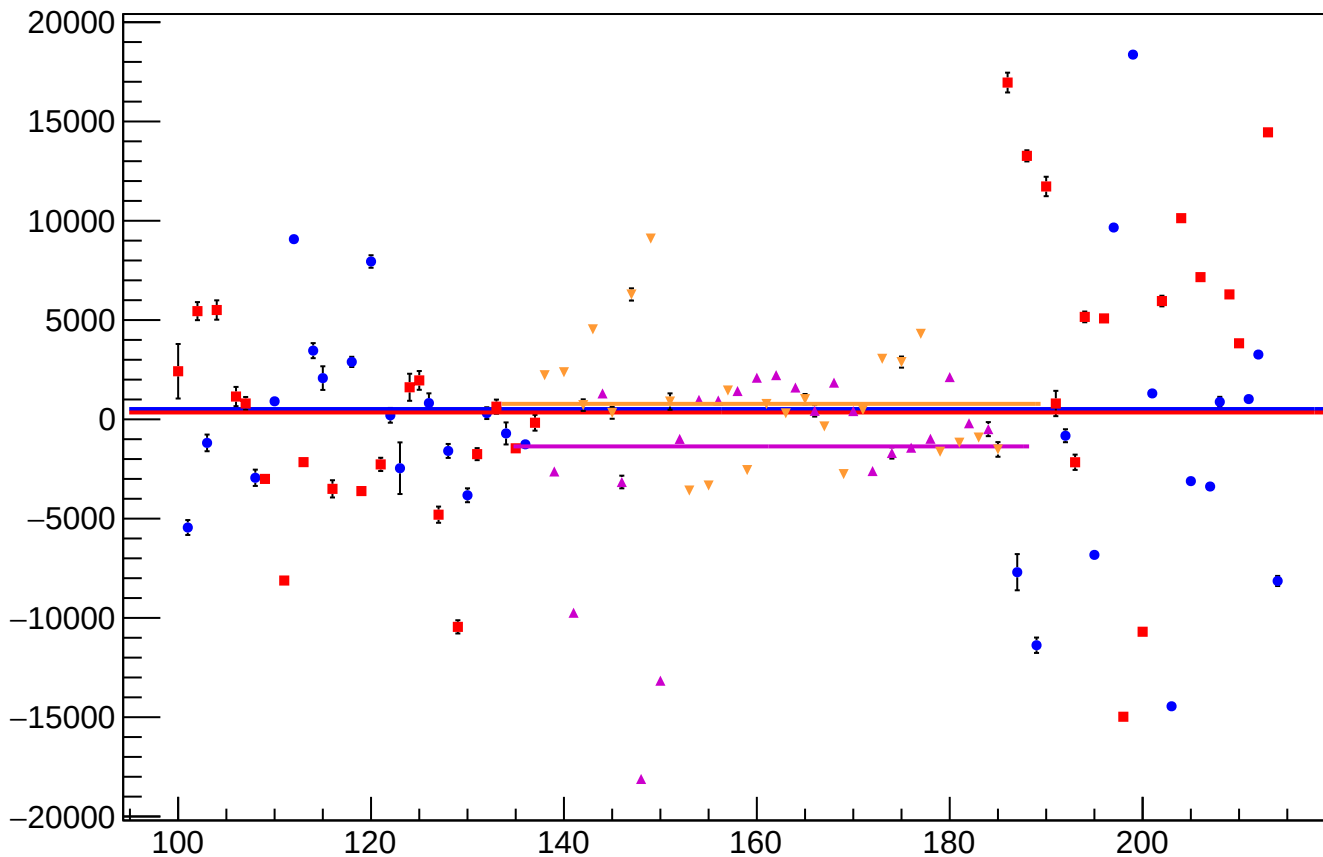
Right: 175.710 ± 0.022 $\chi^2/\text{NDF}: 1962476.5/64$

In: 177.738 ± 0.022 $\chi^2/\text{NDF}: 1665936.2/53$

Out: 182.170 ± 0.022 $\chi^2/\text{NDF}: 2037506.3/58$

All: 179.953 ± 0.016 $\chi^2/\text{NDF}: 3723617.8/112$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 519.012 $\pm$ 49.634 χ^2 /NDF: 21637.0/30

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: 345.795 $\pm$ 48.260 χ^2 /NDF: 24948.3/33

Left In: -1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2 /NDF: 16949.3/47

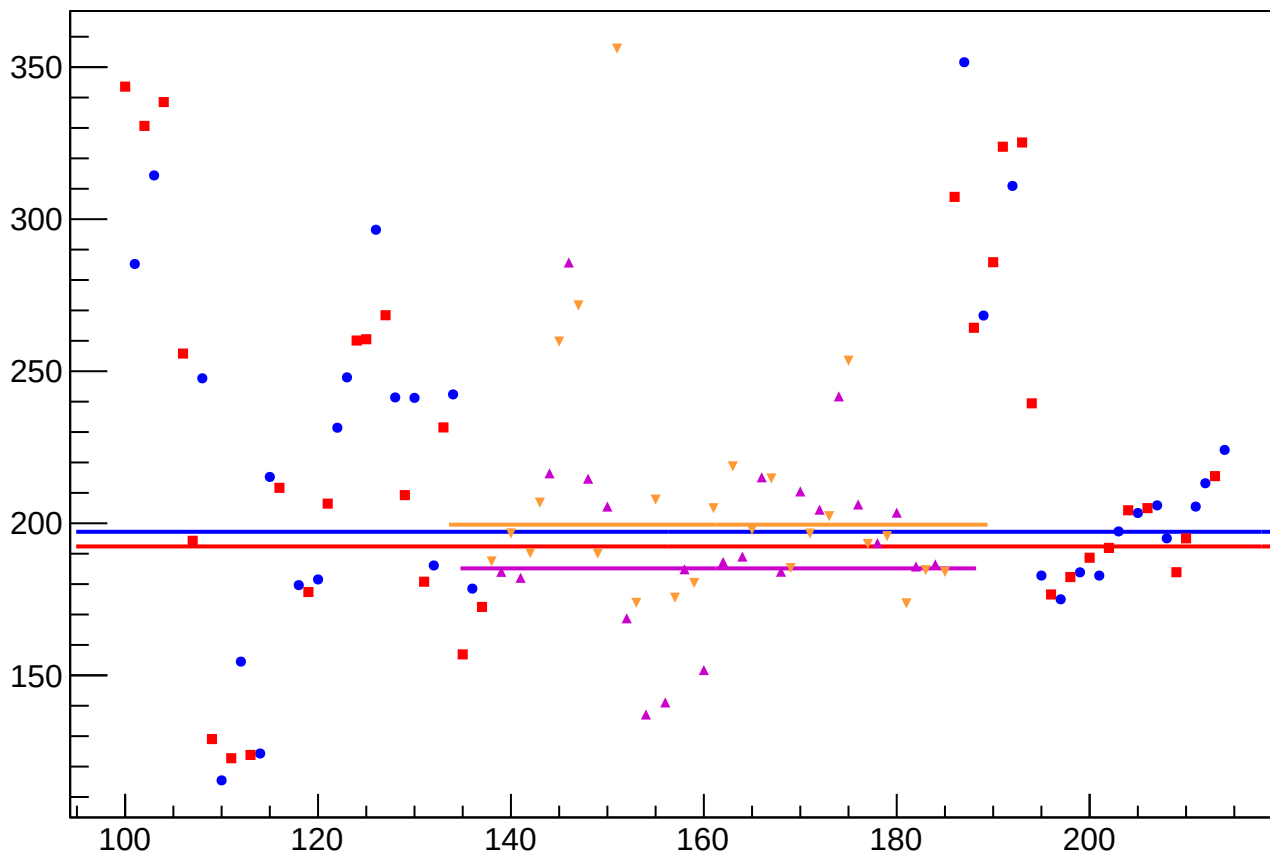
Right: 429.973 $\pm$ 34.600 χ^2 /NDF: 46591.6/64

In: -497.370 $\pm$ 33.662 χ^2 /NDF:34046.4/53

Out: 566.529 $\pm$ 33.838 χ^2 /NDF:29250.2/58

All: 31.813 $\pm$ 23.864 χ^2 /NDF: 63793.4/112

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 197.202 ± 0.035 χ^2/NDF : 1452299.9/30

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 192.384 ± 0.034 χ^2/NDF : 2162853.9/33

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

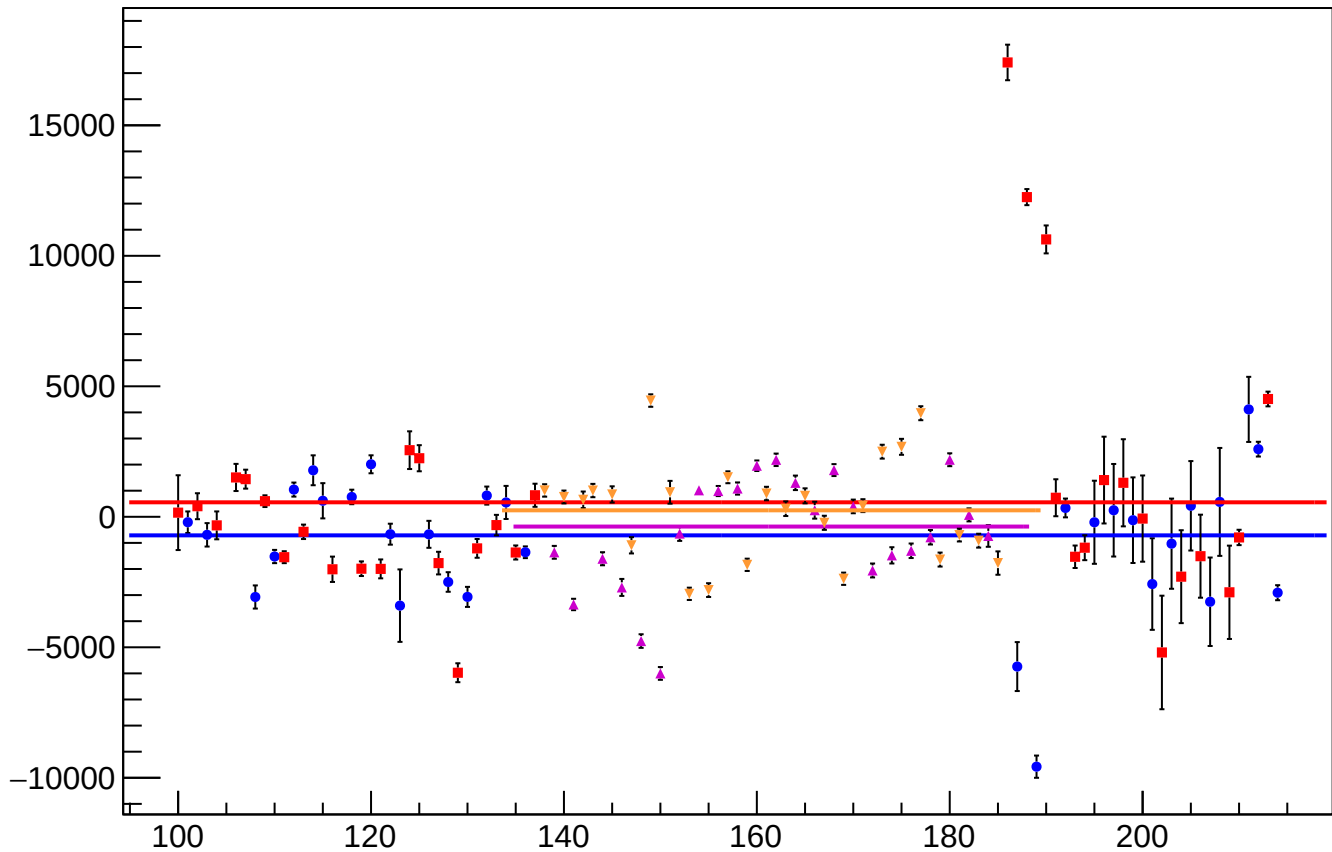
Right: 194.726 ± 0.024 χ^2/NDF : 3624841.5/64

In: 190.705 ± 0.024 χ^2/NDF : 2398520.6/53

Out: 196.026 ± 0.024 χ^2/NDF : 2914606.7/58

All: 193.351 ± 0.017 χ^2/NDF : 5337982.2/112

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -711.376 $\pm$ 76.912 χ^2/NDF : 975.9/30

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 555.028 $\pm$ 70.319 χ^2/NDF : 3400.3/33

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

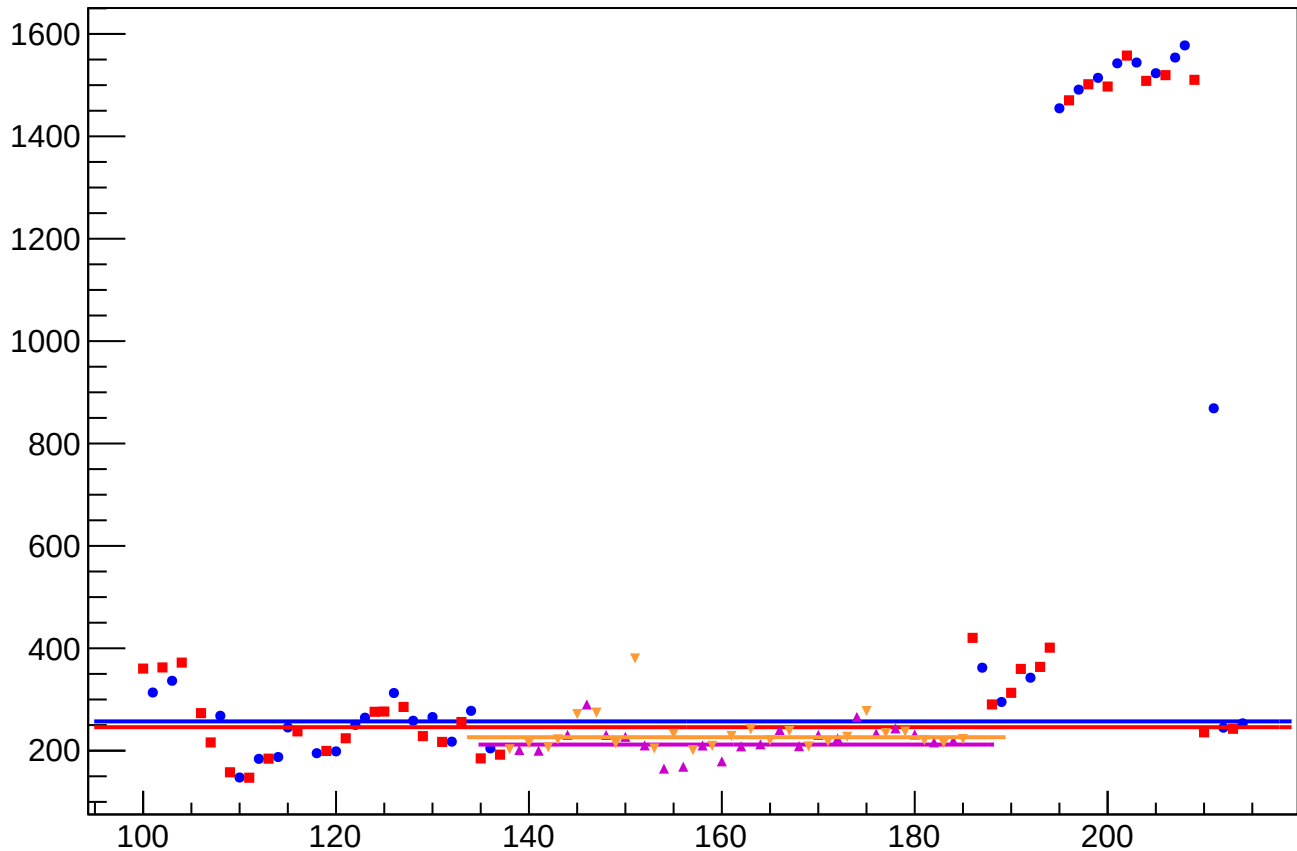
Right: -21.576 $\pm$ 51.897 χ^2/NDF : 4523.9/64

In: -480.059 $\pm$ 43.106 χ^2/NDF :2790.1/53

Out: 360.612 $\pm$ 42.605 χ^2/NDF :4767.5/58

All: -54.814 $\pm$ 30.302 χ^2/NDF : 7750.0/112

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.226+/-0.054 χ^2/NDF : 10146114.9/30

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 245.898+/-0.050 χ^2/NDF : 9273307.6/33

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

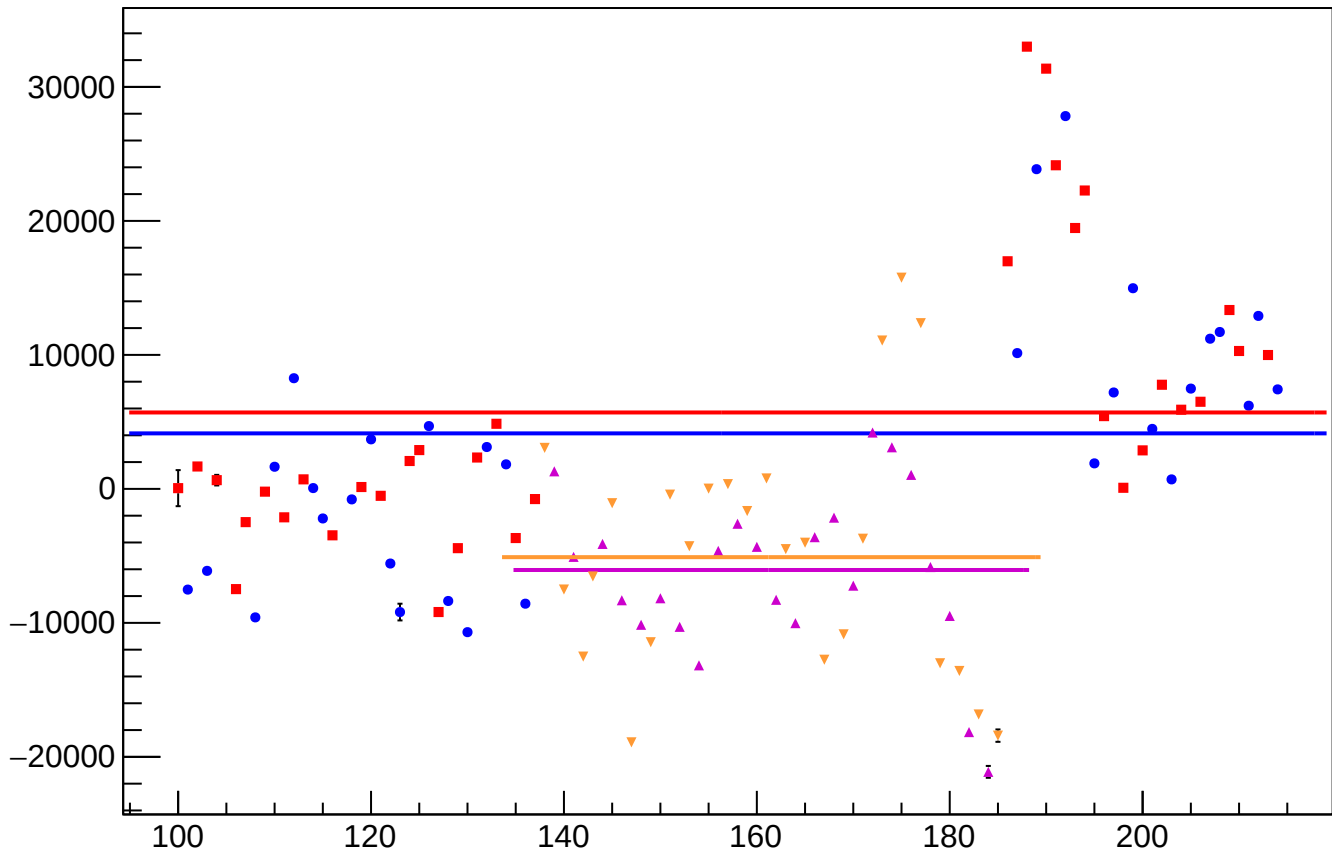
Right: 251.056+/-0.037 χ^2/NDF : 19443051.7/64

In: 226.186+/-0.030 χ^2/NDF : 11205396.9/53

Out: 233.508+/-0.030 χ^2/NDF : 9892454.8/58

All: 229.890+/-0.021 χ^2/NDF : 21127047.3/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4142.773 $\pm$ 34.109 χ^2/NDF : 79671.5/30

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF : 54395.4/24

Right Out: 5703.034 $\pm$ 32.712 χ^2/NDF : 103898.9/33

Left In: -6053.569 $\pm$ 34.998 χ^2/NDF : 17590.3/22

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

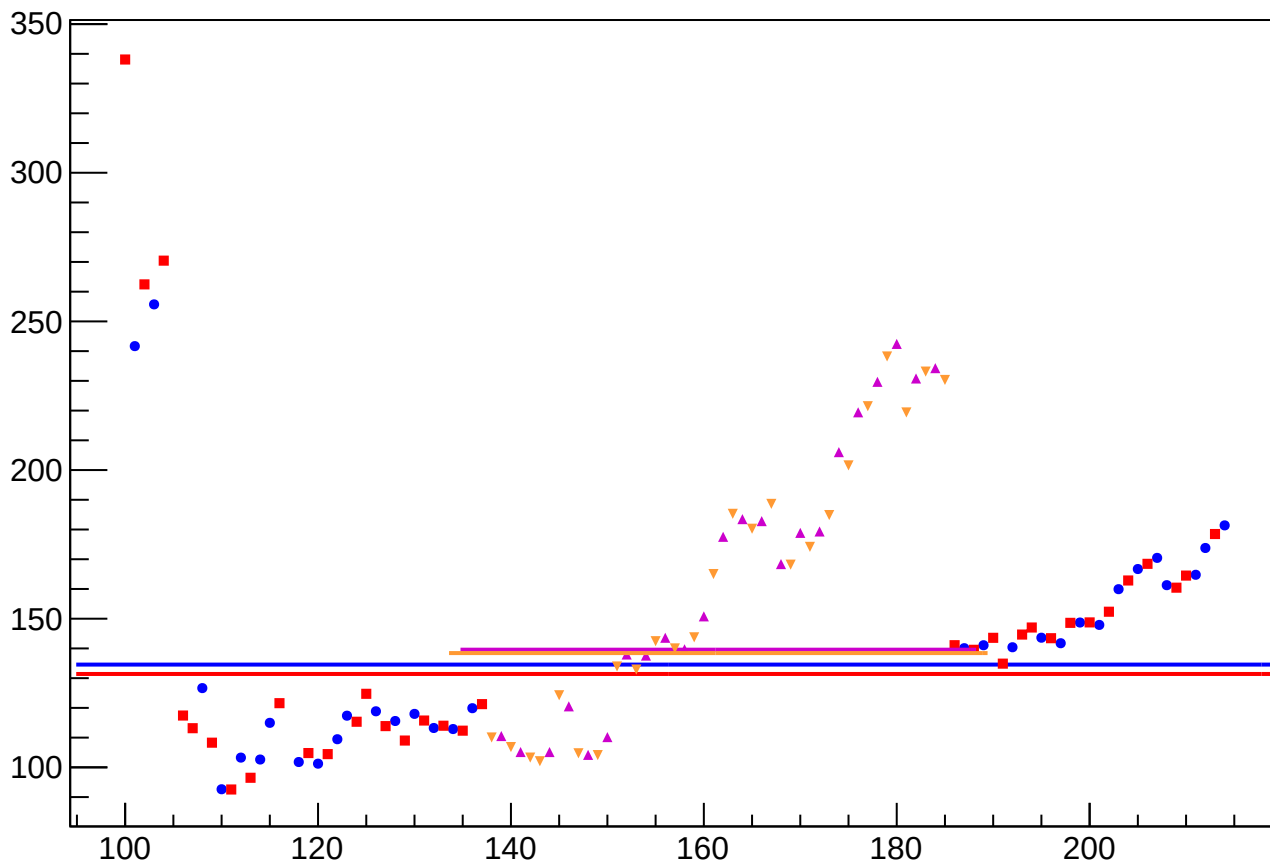
Right: 4955.518 $\pm$ 23.609 χ^2/NDF : 184660.4/64

In: -824.251 $\pm$ 24.427 χ^2/NDF : 140793.2/53

Out: 465.084 $\pm$ 23.473 χ^2/NDF : 211152.6/58

All: -153.927 $\pm$ 16.925 χ^2/NDF : 353394.2/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 134.564+/-0.024 χ^2/NDF : 1537585.4/30

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

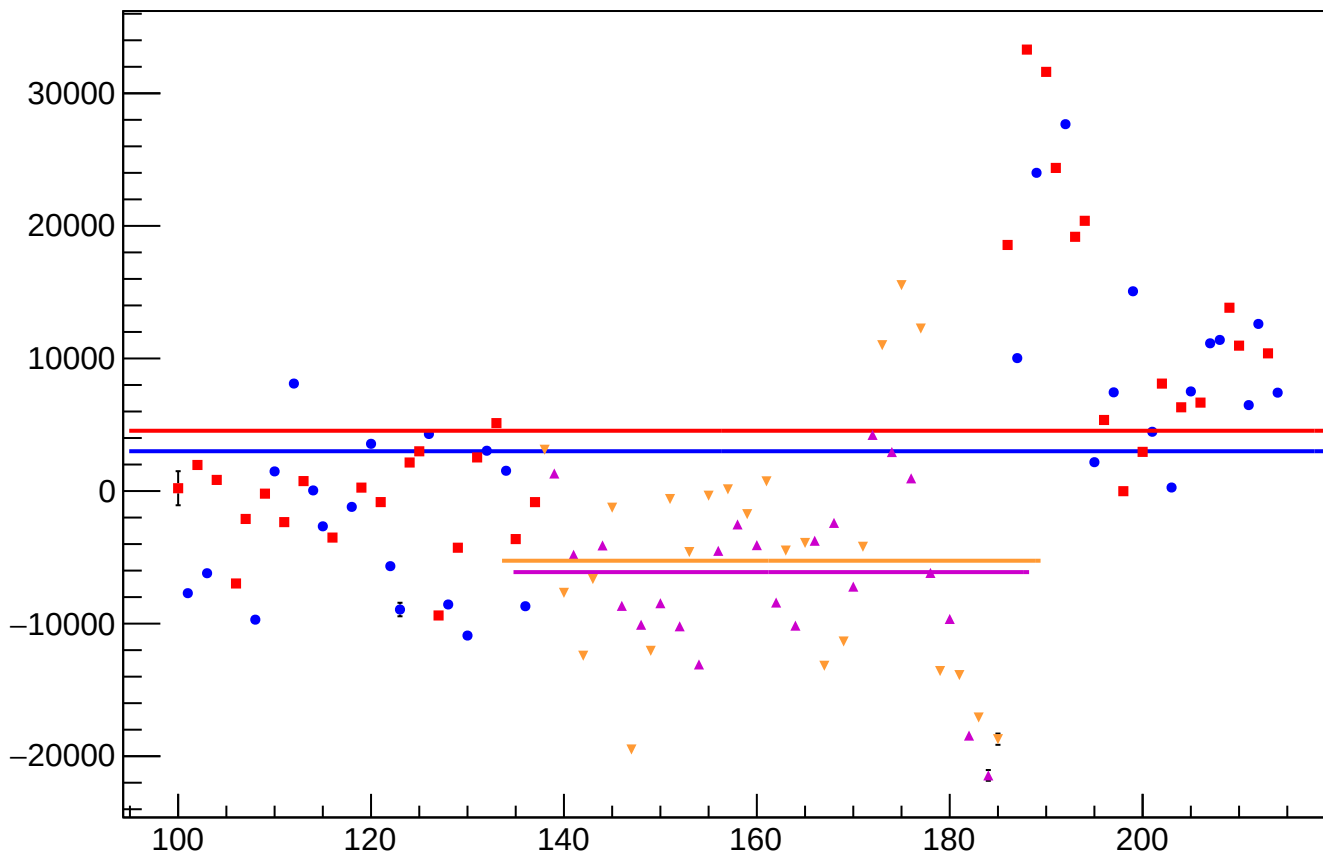
Right: 132.920+/-0.017 χ^2/NDF : 3132062.0/64

In: 137.006+/-0.017 χ^2/NDF :3972295.7/53

Out: 134.817+/-0.017 χ^2/NDF :4179773.7/58

All: 135.868+/-0.012 χ^2/NDF : 8160424.8/112

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3003.721+/-30.607

χ^2/NDF : 90255.5/30

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4547.836+/-29.462

χ^2/NDF : 113733.0/33

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3805.197+/-21.226

χ^2/NDF : 205309.6/64

In: -1334.941+/-22.160

χ^2/NDF : 153749.2/53

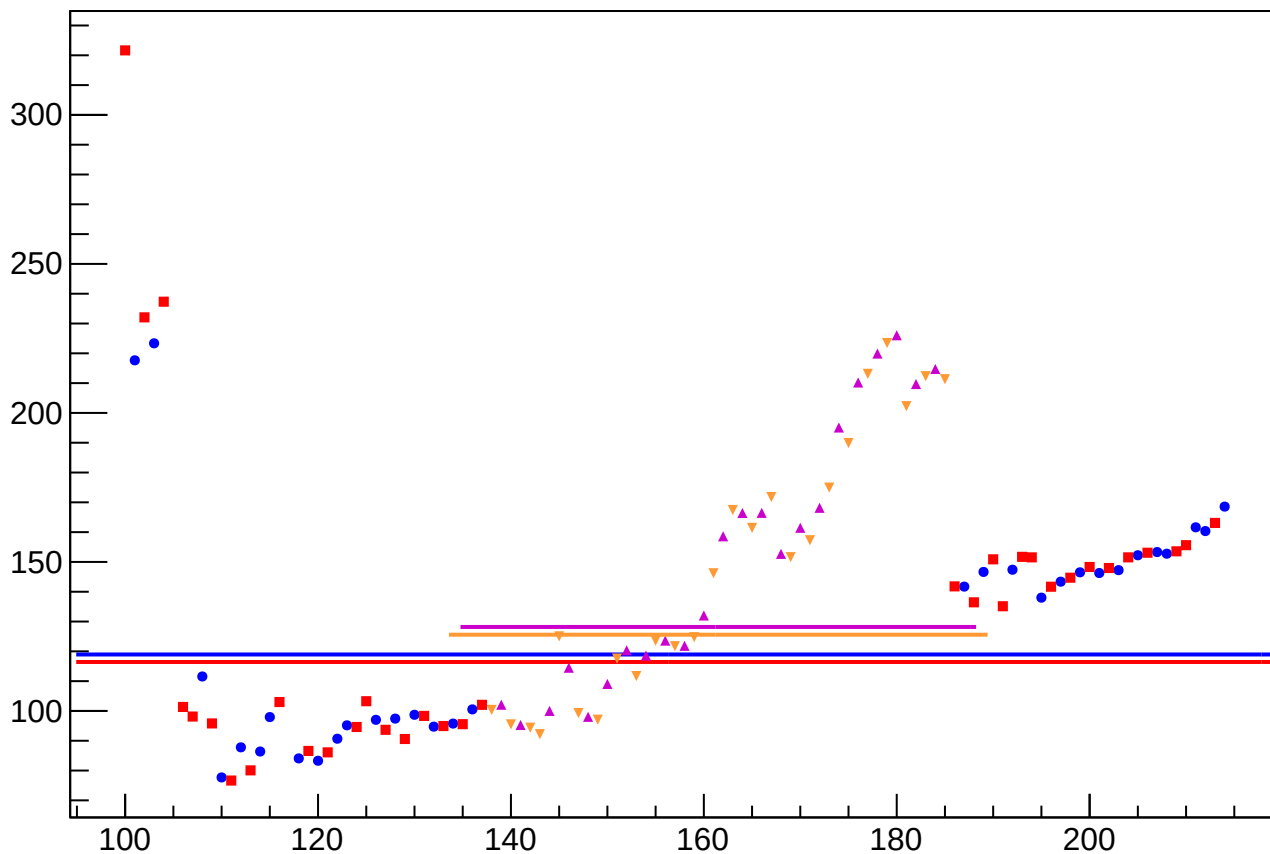
Out: -164.703+/-21.231

χ^2/NDF : 231282.4/58

All: -724.784+/-15.330

χ^2/NDF : 386485.6/111

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 118.948 $\pm$ 0.022 χ^2 /NDF: 2336441.8/30

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF: 2595752.6/24

Right Out: 116.437 $\pm$ 0.021 χ^2 /NDF: 2474336.2/33

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF: 2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

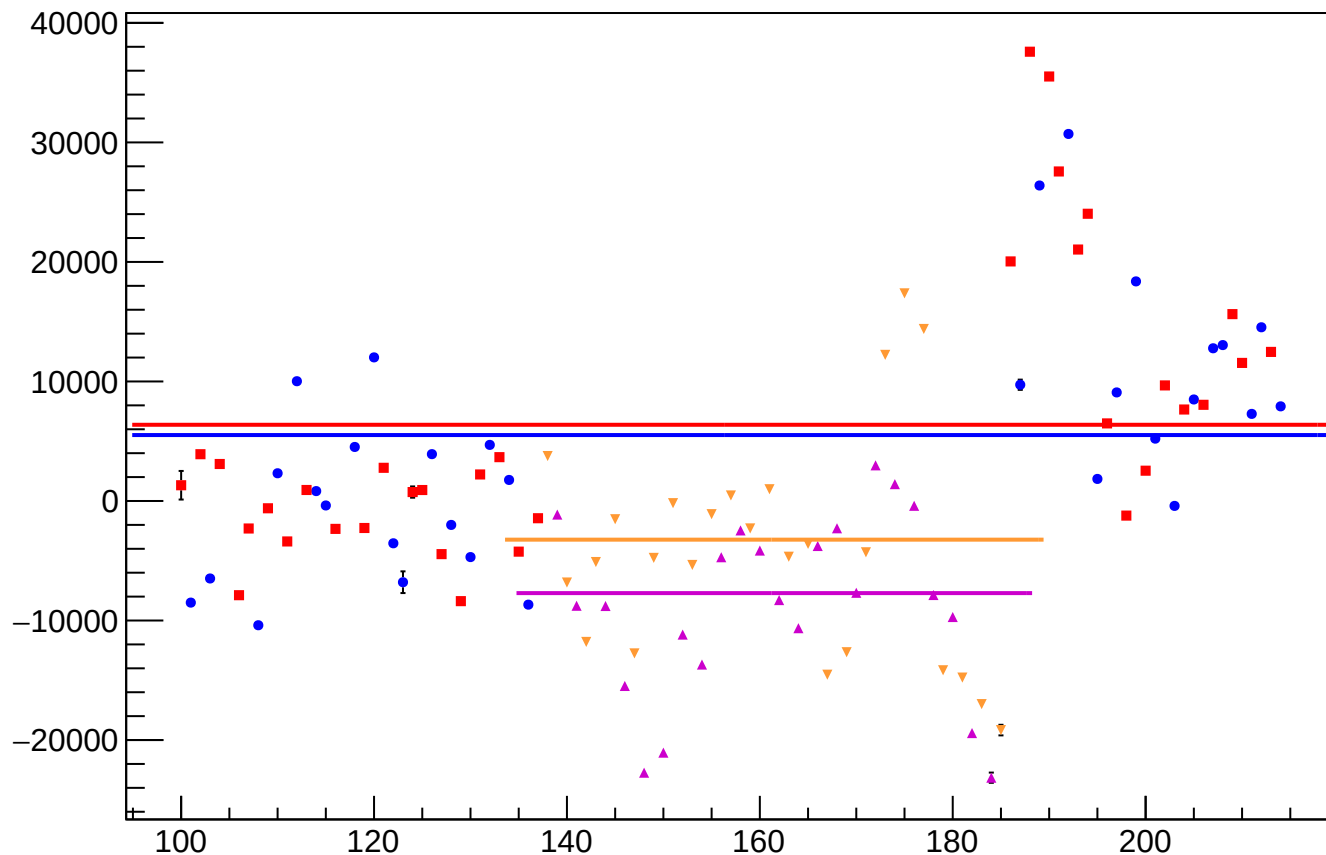
Right: 117.645 $\pm$ 0.015 χ^2 /NDF: 4817766.5/64

In: 123.342 $\pm$ 0.016 χ^2 /NDF: 4756063.0/53

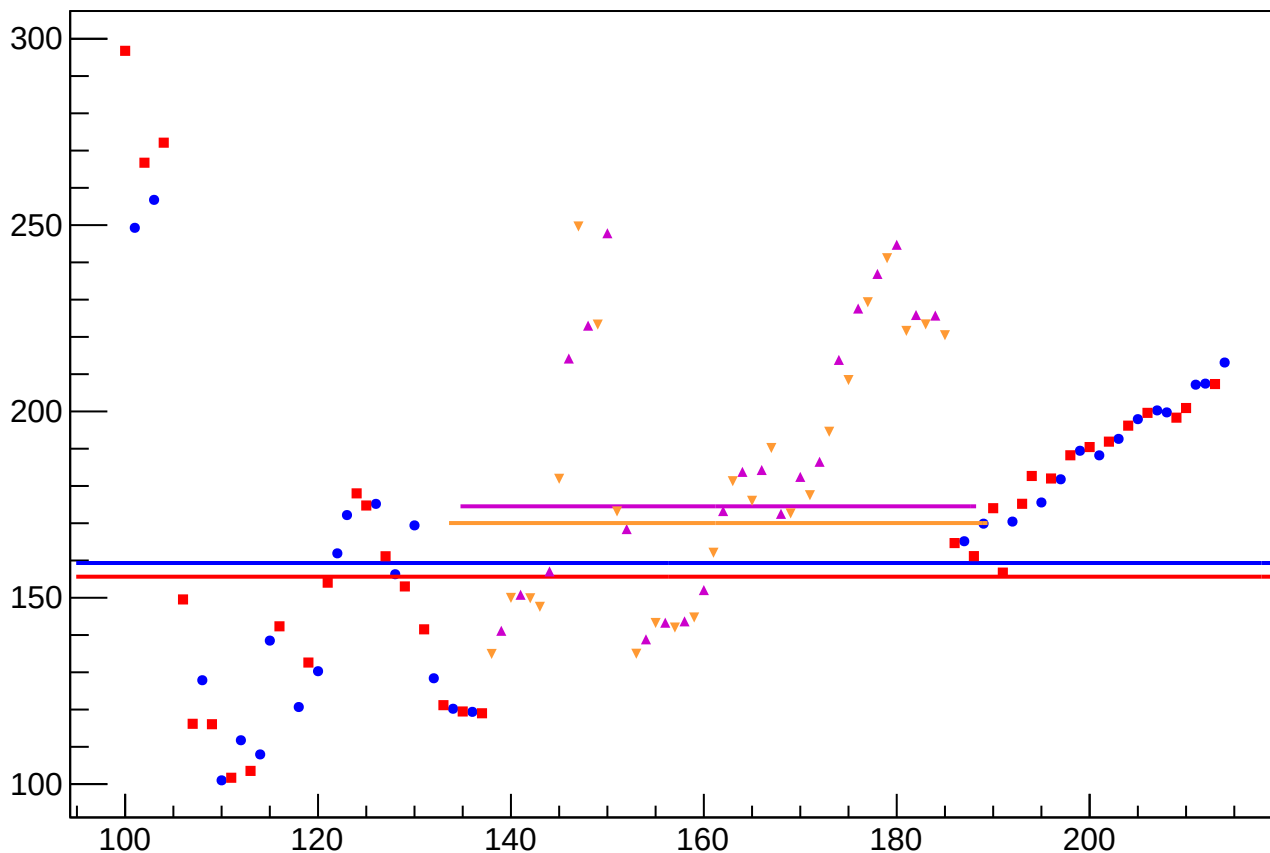
Out: 120.831 $\pm$ 0.015 χ^2 /NDF: 5162623.3/58

All: 122.033 $\pm$ 0.011 χ^2 /NDF: 9932083.7/112

asym_bpm1i06WS_mean vs Slug, Sign Corrected



asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 159.328 $\pm$ 0.029 χ^2 /NDF: 1819206.3/30

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 155.655 $\pm$ 0.027 χ^2 /NDF: 1888899.4/33

Left In: 174.539 $\pm$ 0.030 χ^2 /NDF:1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2 /NDF: 2462472.2/47

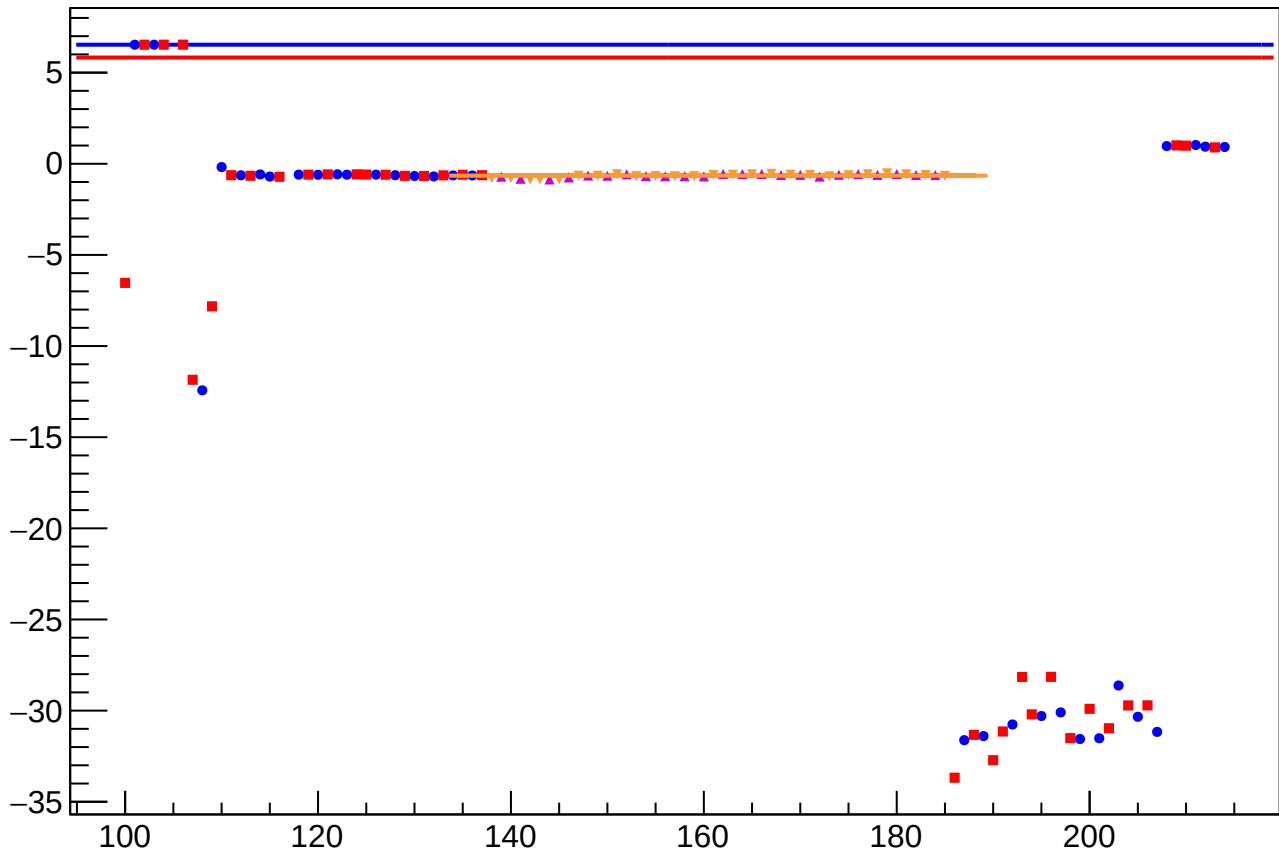
Right: 157.417 $\pm$ 0.020 χ^2 /NDF: 3716674.9/64

In: 166.475 $\pm$ 0.021 χ^2 /NDF:3162023.8/53

Out: 162.542 $\pm$ 0.020 χ^2 /NDF:3260997.1/58

All: 164.413 $\pm$ 0.014 χ^2 /NDF: 6441695.0/112

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 135451109721.3/30

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755951738191681.8/33

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

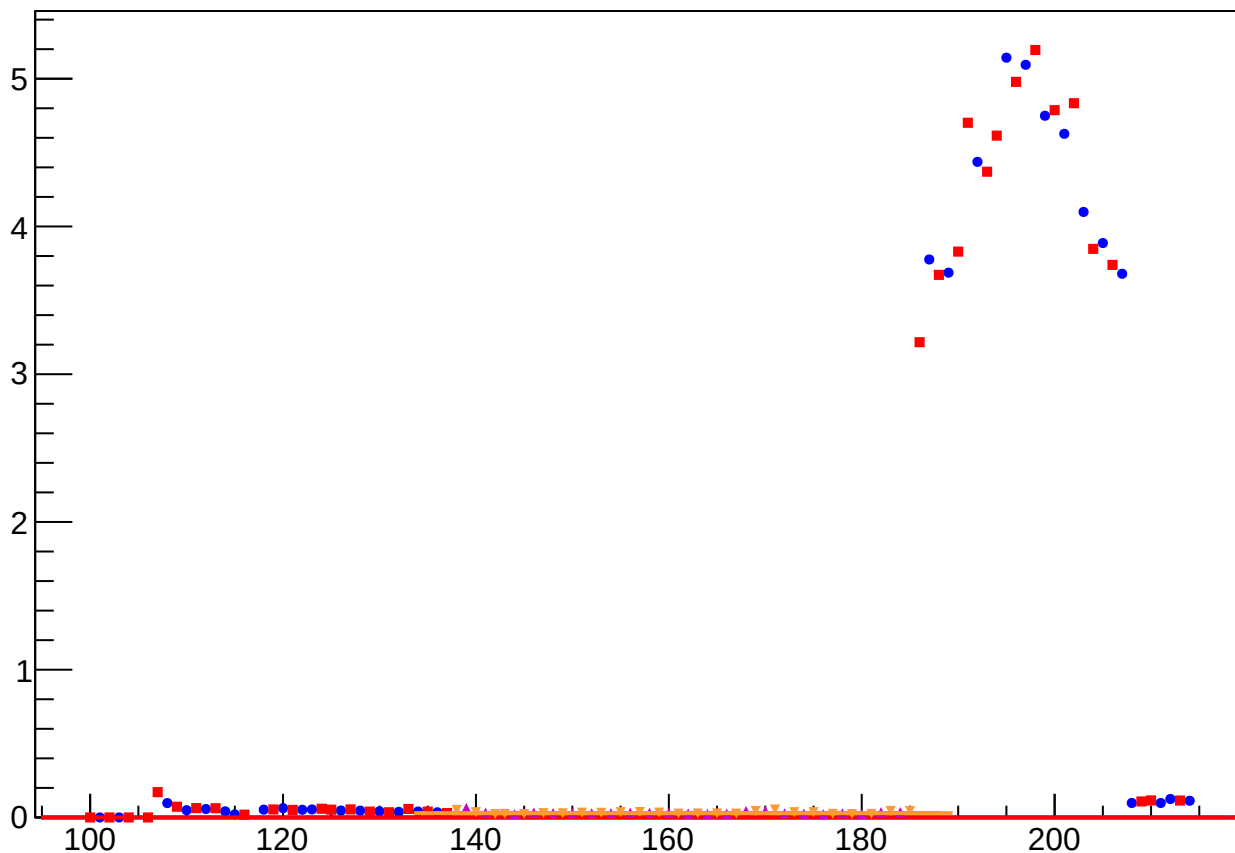
Right: 6.155+/-0.000 χ^2/NDF : 776089927714185.9/47

In: 6.530+/-0.000 χ^2/NDF : 960794445098.5/53

Out: 5.826+/-0.000 χ^2/NDF : 756660764836643.2/53

All: 6.153+/-0.000 χ^2/NDF : 77761329170749.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28438310.6/30

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29049862.2/33

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

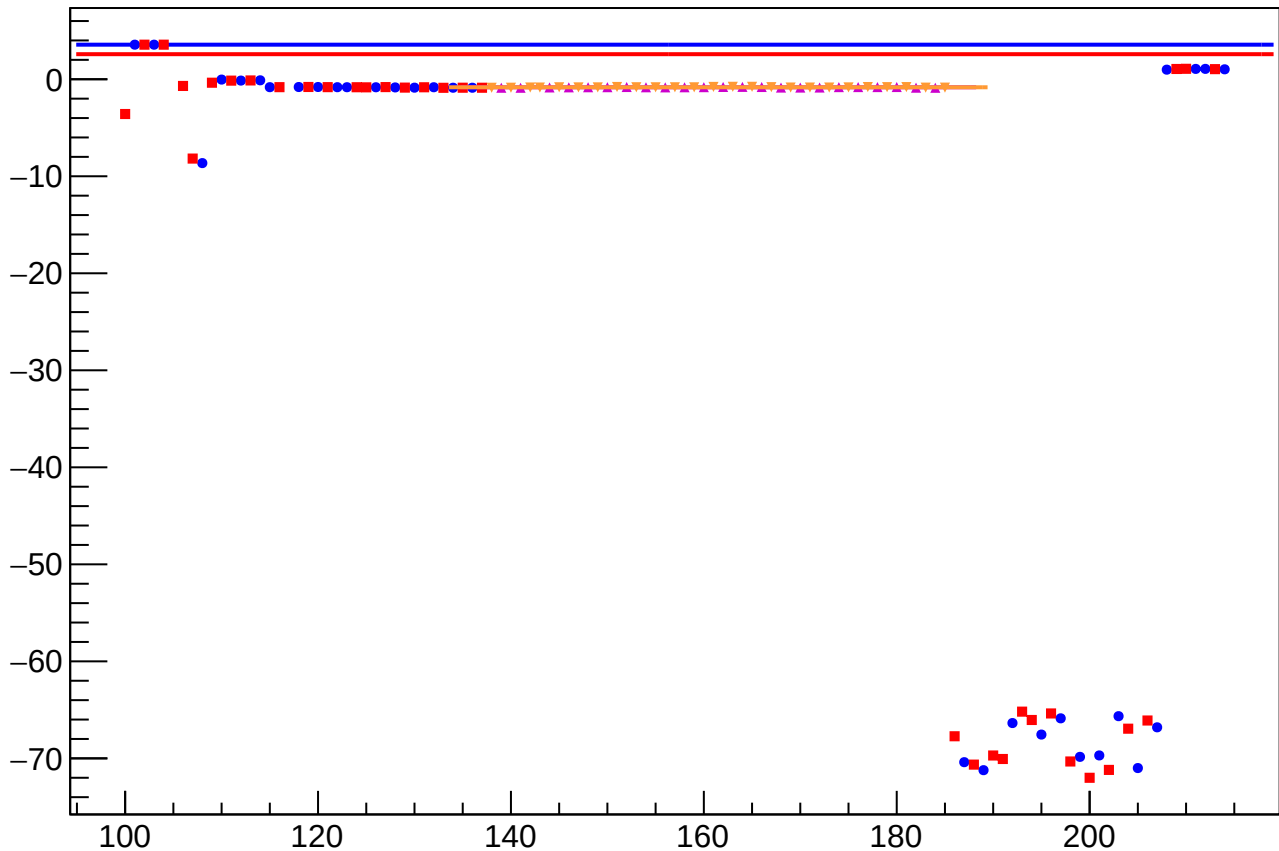
Right: 0.000+/-0.000 χ^2/NDF : 57488460.4/64

In: 0.000+/-0.000 χ^2/NDF :56399351.5/53

Out: 0.000+/-0.000 χ^2/NDF :58925110.4/58

All: 0.000+/-0.000 χ^2/NDF : 115324925.6/112

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 551945556001.5/30

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253549061871063.8/33

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

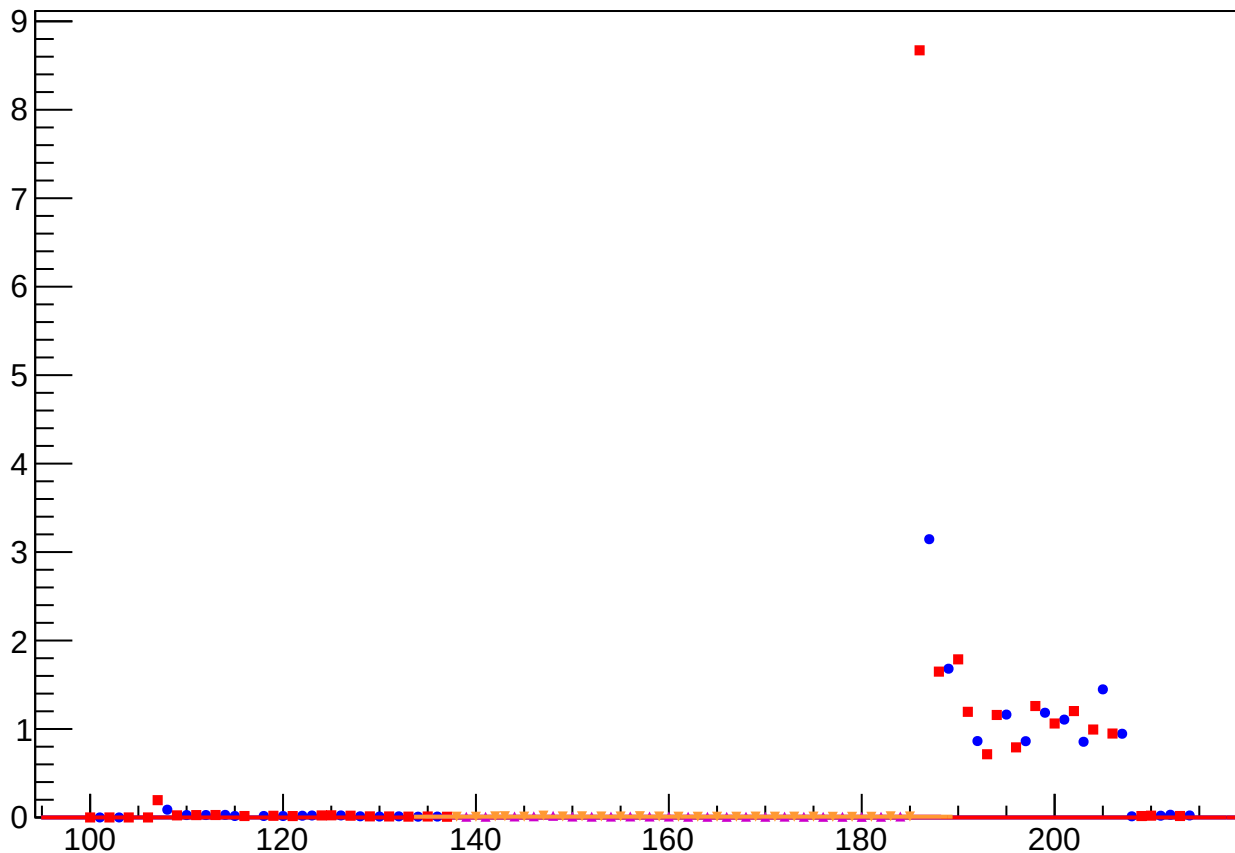
Right: 3.040+/-0.000 χ^2/NDF : 1382367779497848.0

In: 3.560+/-0.000 χ^2/NDF : 4197591035970.6/53

Out: 2.581+/-0.000 χ^2/NDF : 1255771347093987.8

All: 3.038+/-0.000 χ^2/NDF : 13880541104986.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26016033.8/30

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26942214.3/33

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

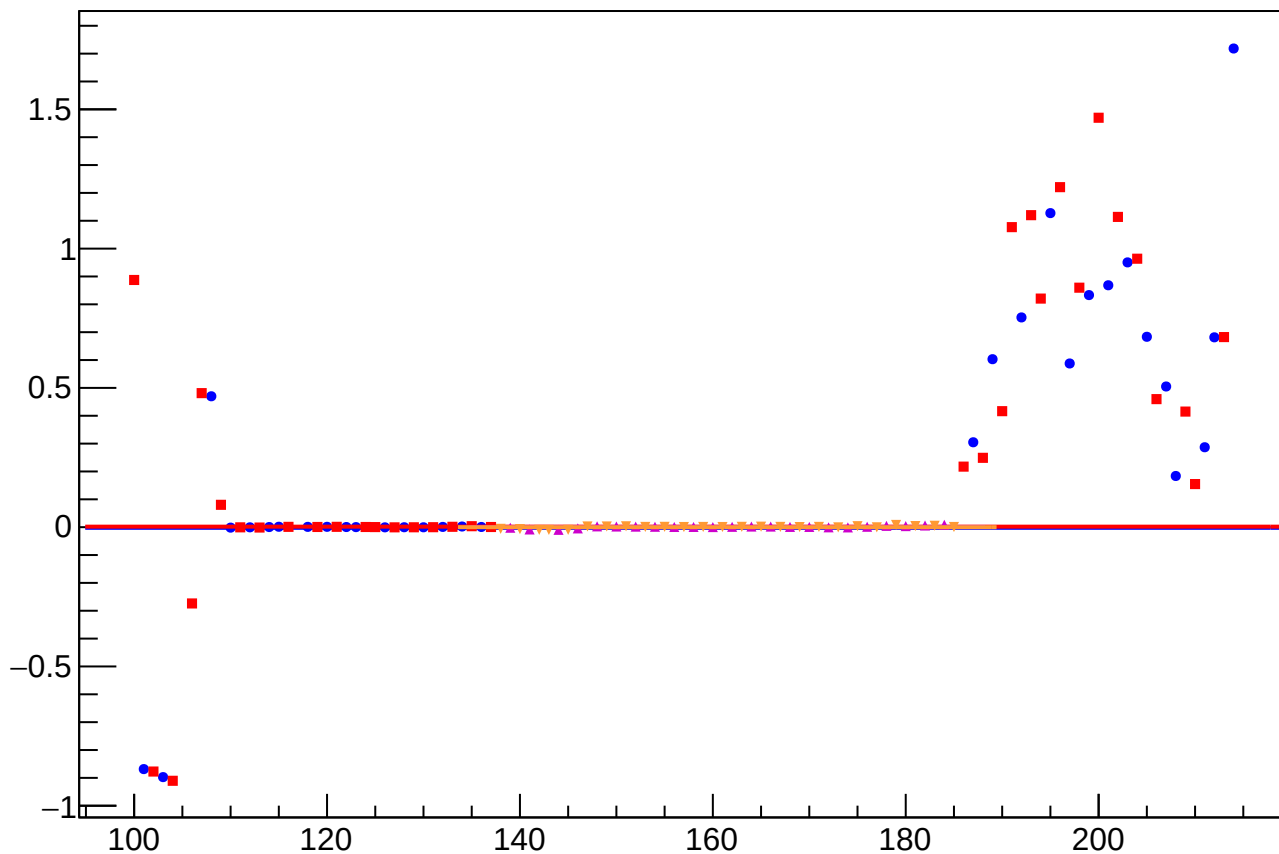
Right: 0.000+/-0.000 χ^2/NDF : 52958568.9/64

In: 0.000+/-0.000 χ^2/NDF :55549023.9/53

Out: 0.000+/-0.000 χ^2/NDF :58358141.4/58

All: 0.000+/-0.000 χ^2/NDF : 113907983.7/112

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9797494616.9/30

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right: -0.000+/-0.000 χ^2/NDF : 12855010153.4/64

Right Out: 0.002+/-0.000

χ^2/NDF : 3043746940.9/33

In: -0.000+/-0.000 χ^2/NDF : 9909943181.9/53

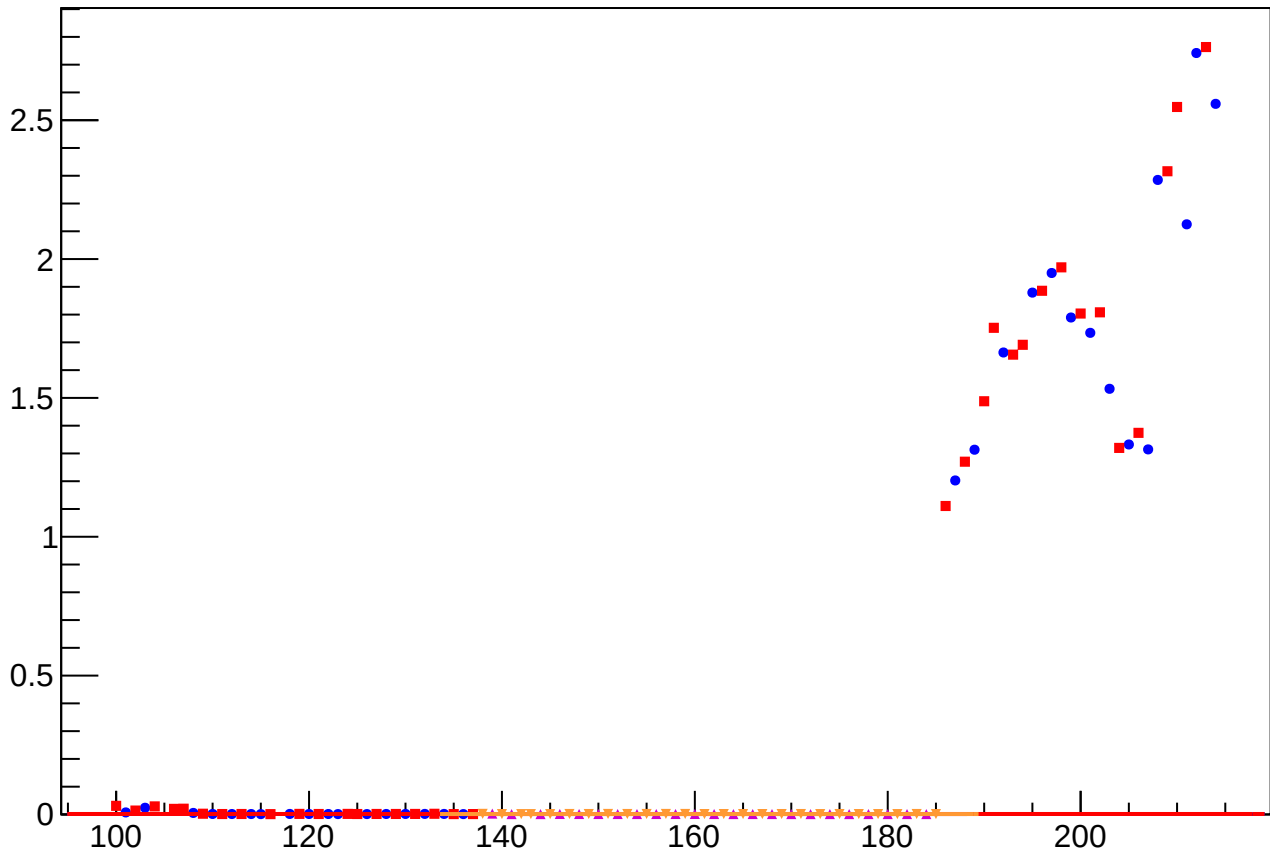
Out: 0.000+/-0.000 χ^2/NDF : 3199964213.7/58

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13110244363.7/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 21331128.7/30

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 22698185.4/33

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

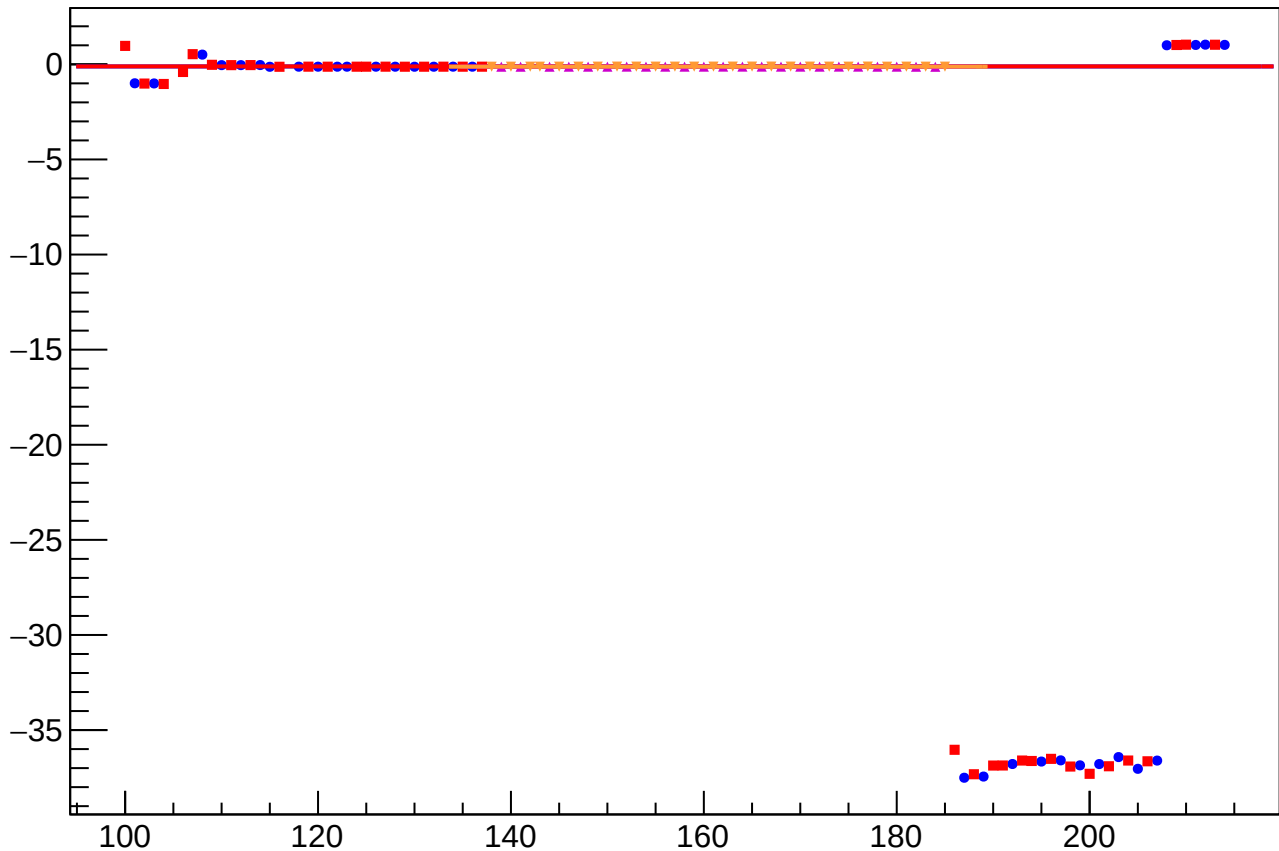
Right: 0.002+/-0.000 χ^2/NDF : 44037803.3/64

In: 0.002+/-0.000 χ^2/NDF :22009490.1/53

Out: 0.002+/-0.000 χ^2/NDF :23377880.0/58

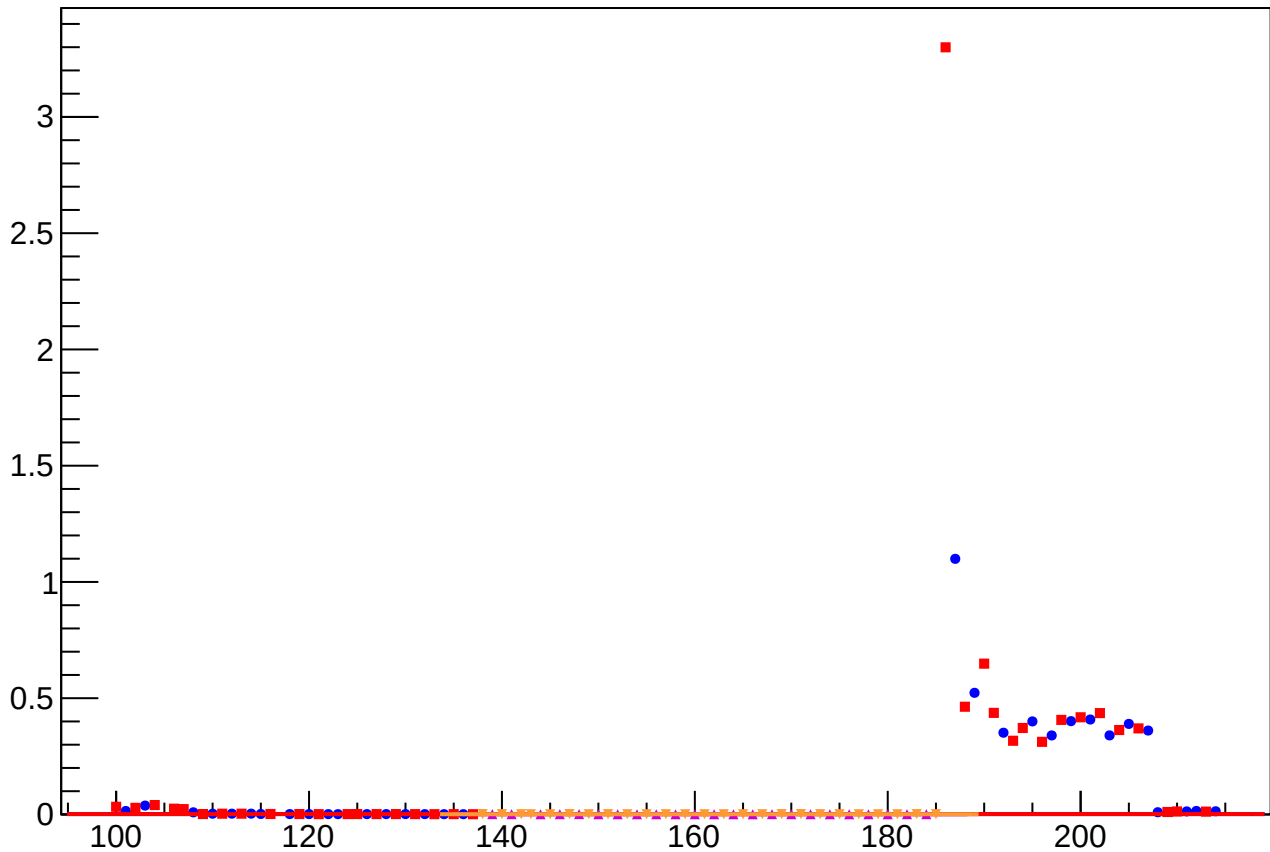
All: 0.002+/-0.000 χ^2/NDF : 45388289.7/112

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.111+/-0.000	χ^2/NDF : 87566062687.7/30	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.109+/-0.000	χ^2/NDF : 175349650887.3/64
Right Out: -0.107+/-0.000	χ^2/NDF : 87770981460.9/33	In: -0.120+/-0.000	χ^2/NDF : 87785544662.9/53
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.120+/-0.000	χ^2/NDF : 88151560104.2/58
		All: -0.120+/-0.000	χ^2/NDF : 175937272239.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 20284940.4/30

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21615882.4/33

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

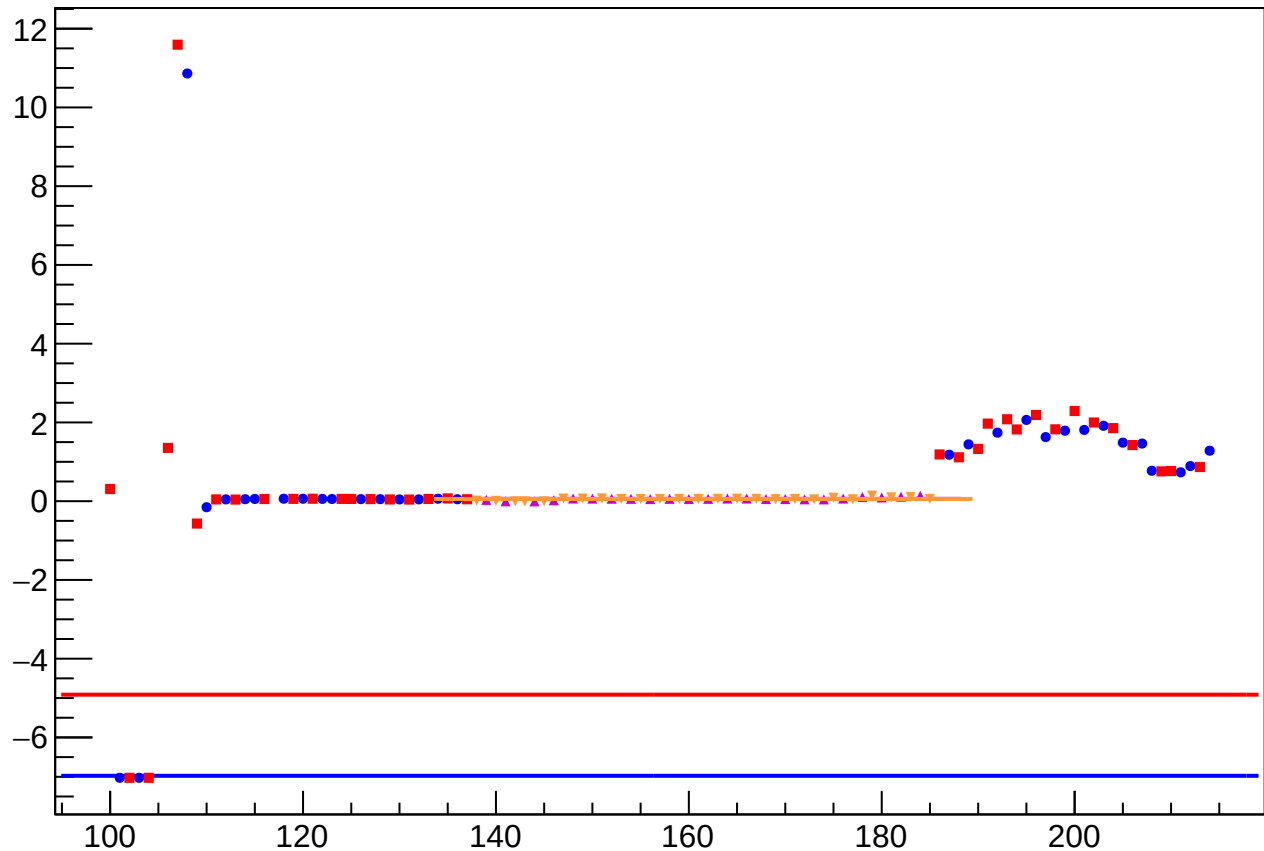
Right: 0.002+/-0.000 χ^2/NDF : 41901985.4/64

In: 0.001+/-0.000 χ^2/NDF :22863541.1/53

Out: 0.001+/-0.000 χ^2/NDF :24515216.2/58

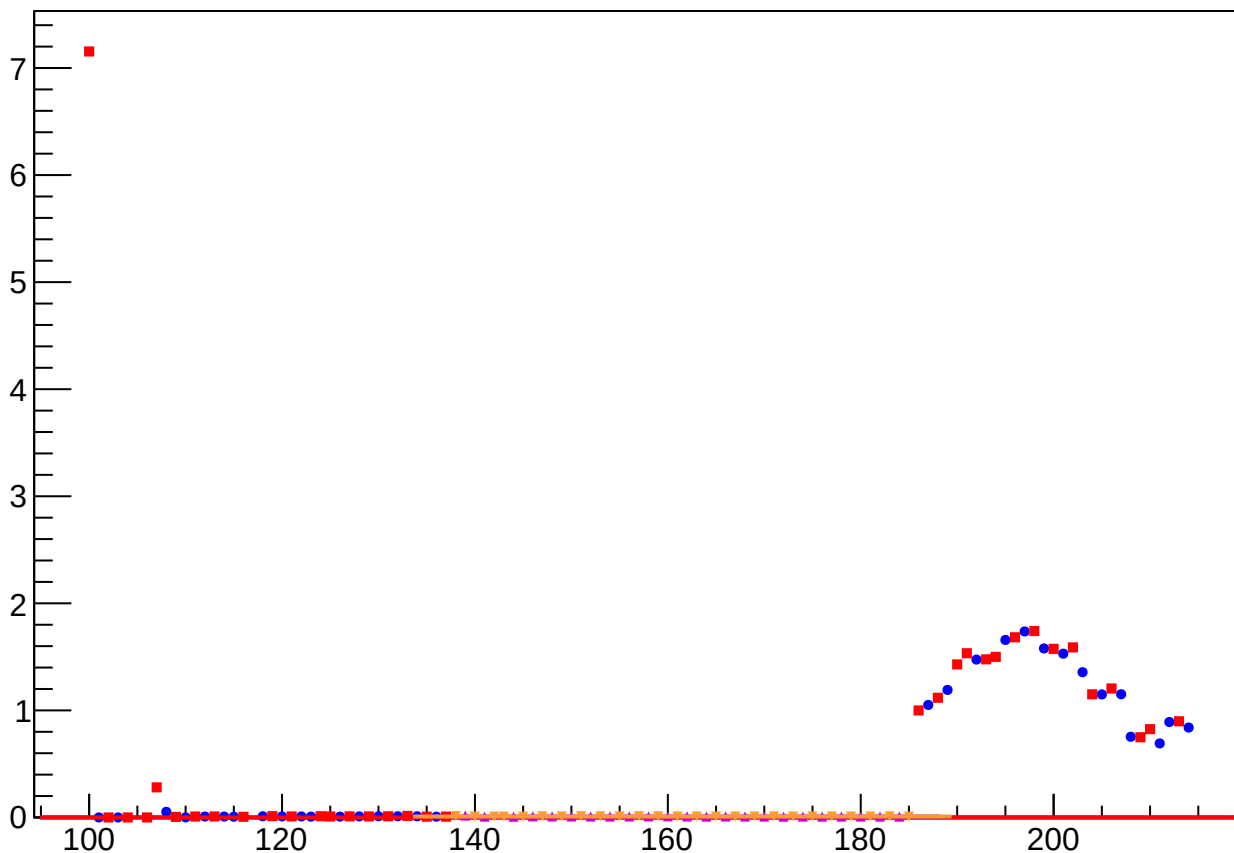
All: 0.001+/-0.000 χ^2/NDF : 47382461.0/112

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797909552683.7/30$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430334062882903.8$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352939436107.6/33$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553423448258.3/53$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165501025028.1/33$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435293481196$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27784794.1/30

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 28485107.5/33

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

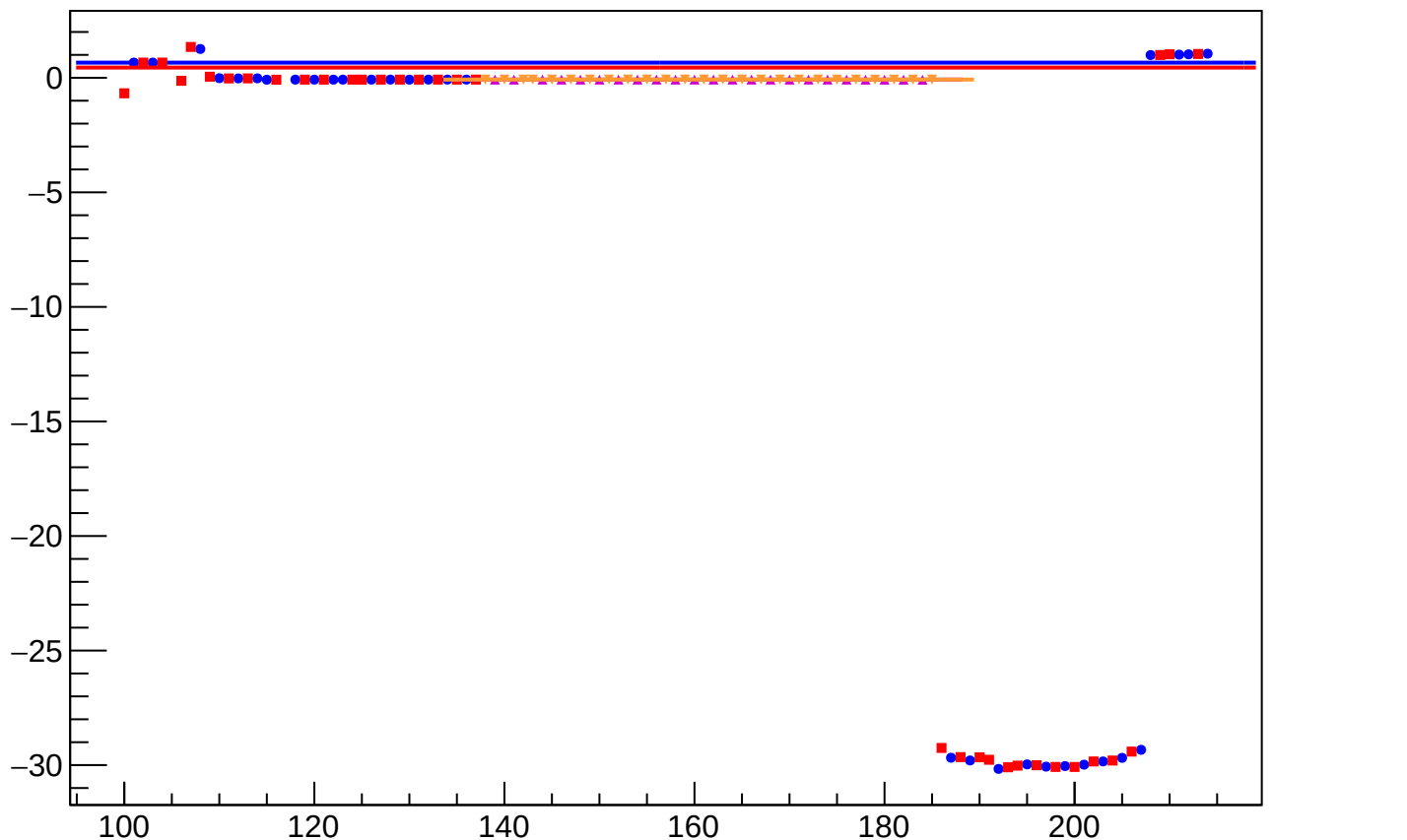
Right: 0.000+/-0.000 χ^2/NDF : 56270260.2/64

In: 0.000+/-0.000 χ^2/NDF :55201708.1/53

Out: 0.000+/-0.000 χ^2/NDF :57428450.3/58

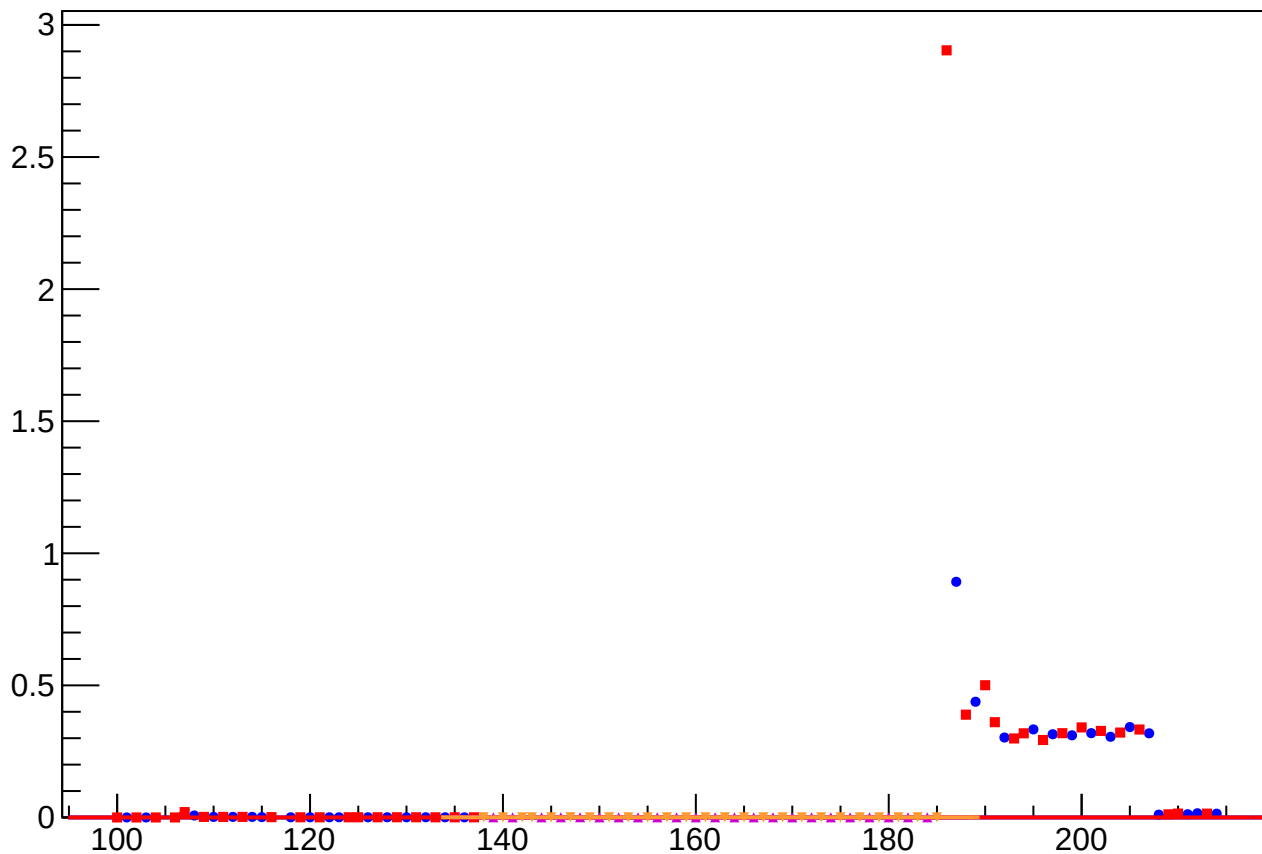
All: 0.000+/-0.000 χ^2/NDF : 112630635.5/112

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5721289585046.9/30	Left: -0.078+/-0.000	χ^2/NDF : 267206251.1/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156404795.7/24	Right: 0.549+/-0.000	χ^2/NDF : 474129100175104.5
Right Out: 0.446+/-0.000	χ^2/NDF : 405494269861149.1/33	In: 0.647+/-0.000	χ^2/NDF : 33762139754552.2/53
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420655482557735.9/5
		All: 0.537+/-0.000	χ^2/NDF : 51597380808403

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29159450.1/30

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29048800.9/33

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

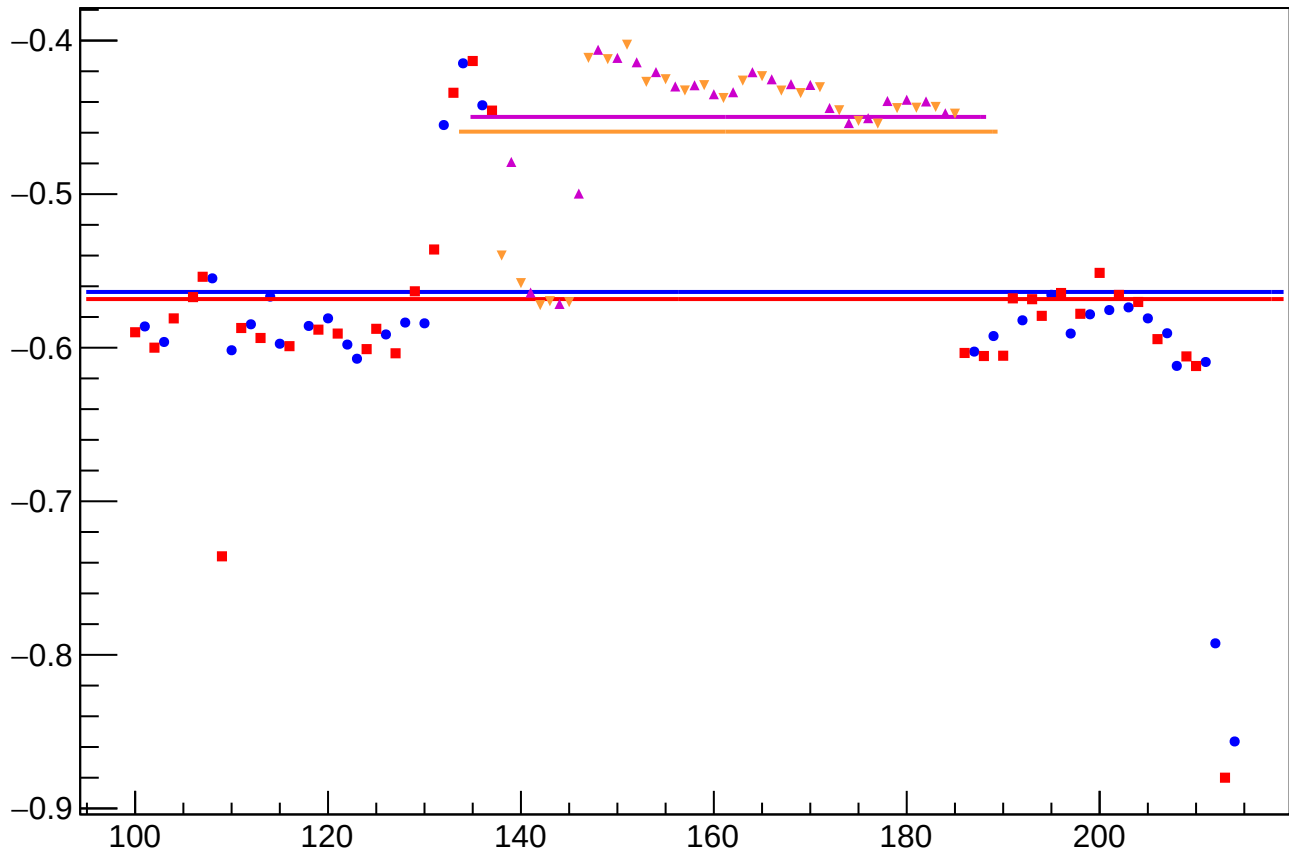
Right: 0.000+/-0.000 χ^2/NDF : 58208279.3/64

In: 0.000+/-0.000 χ^2/NDF : 59882737.5/53

Out: 0.000+/-0.000 χ^2/NDF : 61663444.2/58

All: 0.000+/-0.000 χ^2/NDF : 121546568.9/112

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.564 $\pm$ 0.000 χ^2 /NDF: 86024860.4/30

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113602161.0/24

Right Out: -0.568 $\pm$ 0.000 χ^2 /NDF: 88888204.3/33

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191493218.8/47

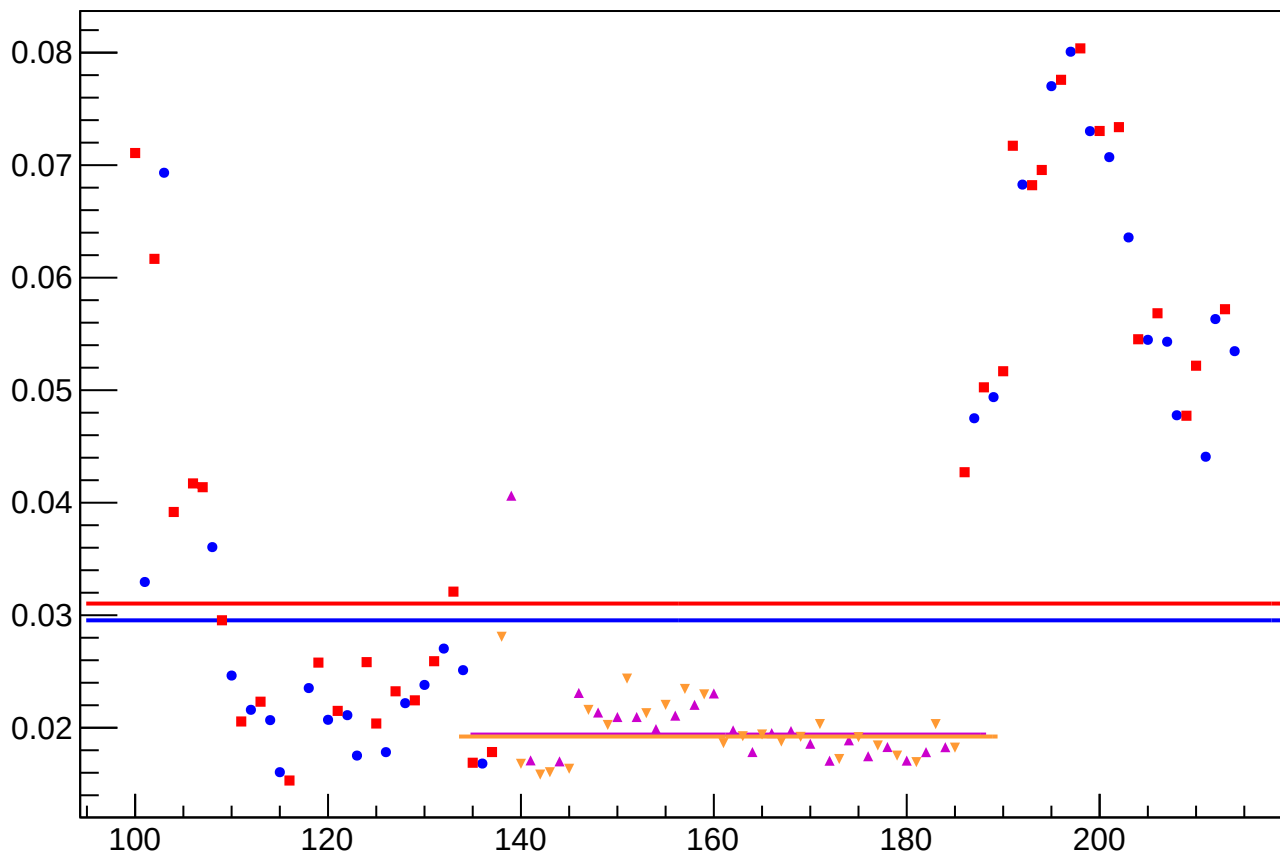
Right: -0.566 $\pm$ 0.000 χ^2 /NDF: 175052500.7/64

In: -0.480 $\pm$ 0.000 χ^2 /NDF: 289803209.9/53

Out: -0.485 $\pm$ 0.000 χ^2 /NDF: 316637957.5/58

All: -0.483 $\pm$ 0.000 χ^2 /NDF: 607209935.1/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7257593.7/30

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 501711.6/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7178050.8/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

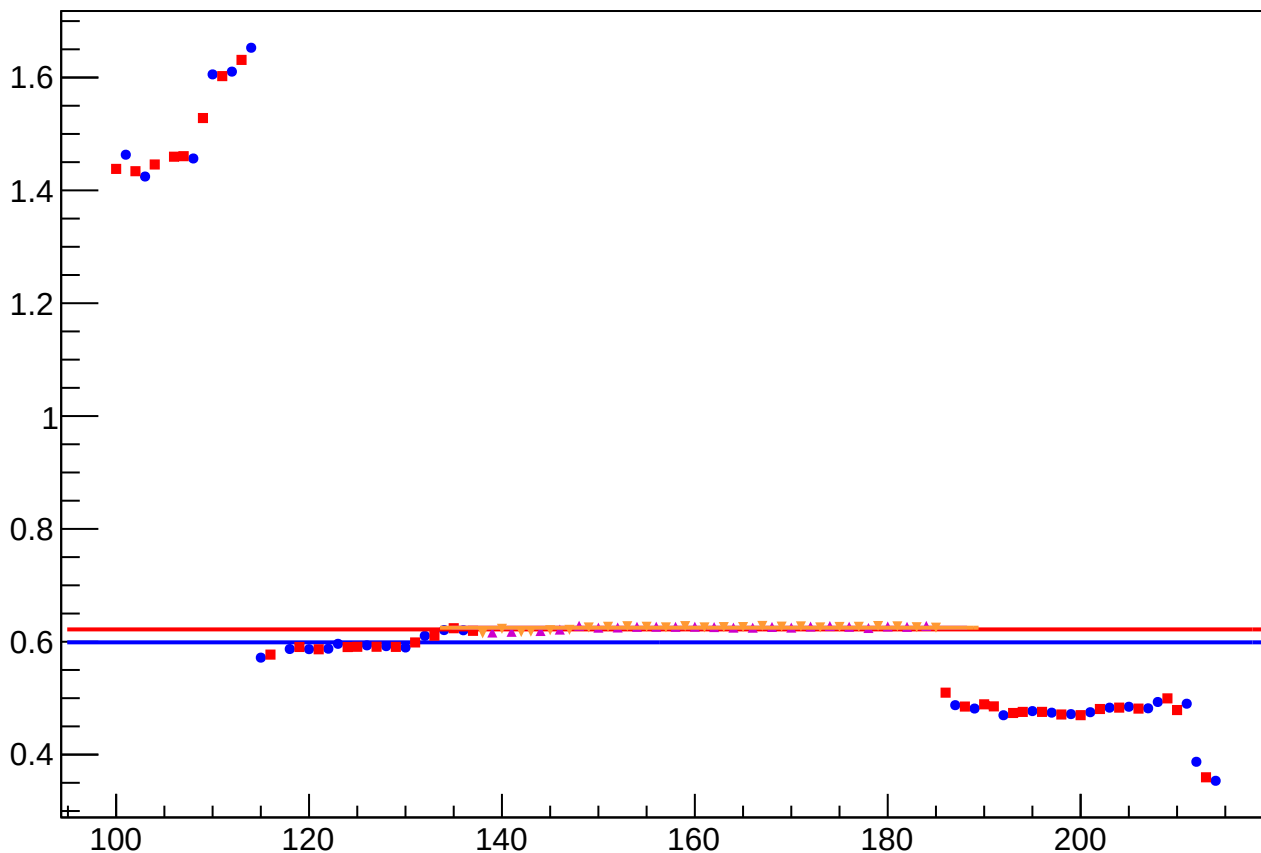
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14464519.7/64

In: 0.022 $\pm$ 0.000 χ^2 /NDF: 9909818.3/53

Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 10362541.9/58

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 20272436.8/112

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.599 $\pm$ 0.000 χ^2/NDF : 5360129060.8/30

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF : 1445169.1/24

Right Out: 0.622 $\pm$ 0.000 χ^2/NDF : 6321067552.2/33

Left In: 0.625 $\pm$ 0.000 χ^2/NDF : 1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2/NDF : 2589565.7/47

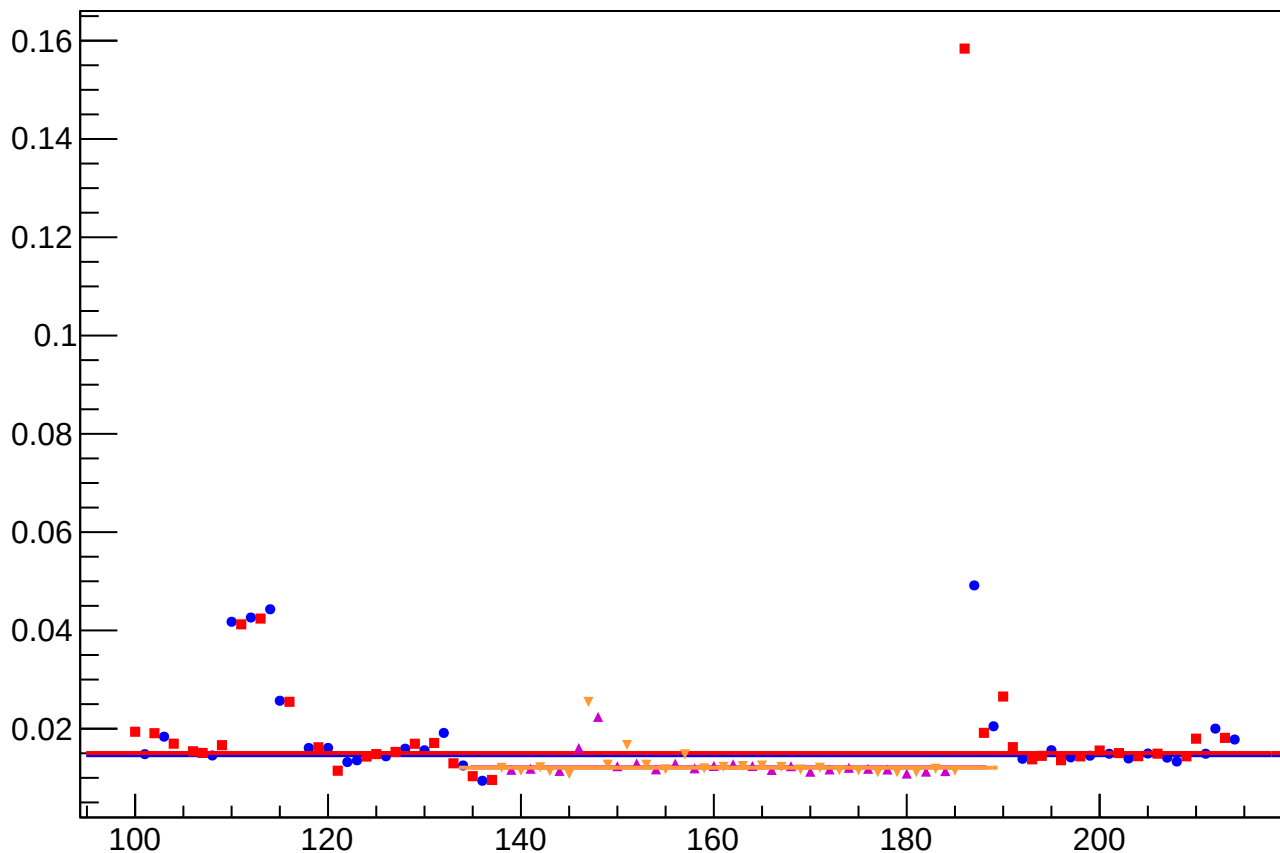
Right: 0.610 $\pm$ 0.000 χ^2/NDF : 11699322466.5/64

In: 0.615 $\pm$ 0.000 χ^2/NDF : 5390345961.0/53

Out: 0.624 $\pm$ 0.000 χ^2/NDF : 6322911610.0/58

All: 0.619 $\pm$ 0.000 χ^2/NDF : 11720659063.5/113

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1811262.2/30

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2162730.5/33

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

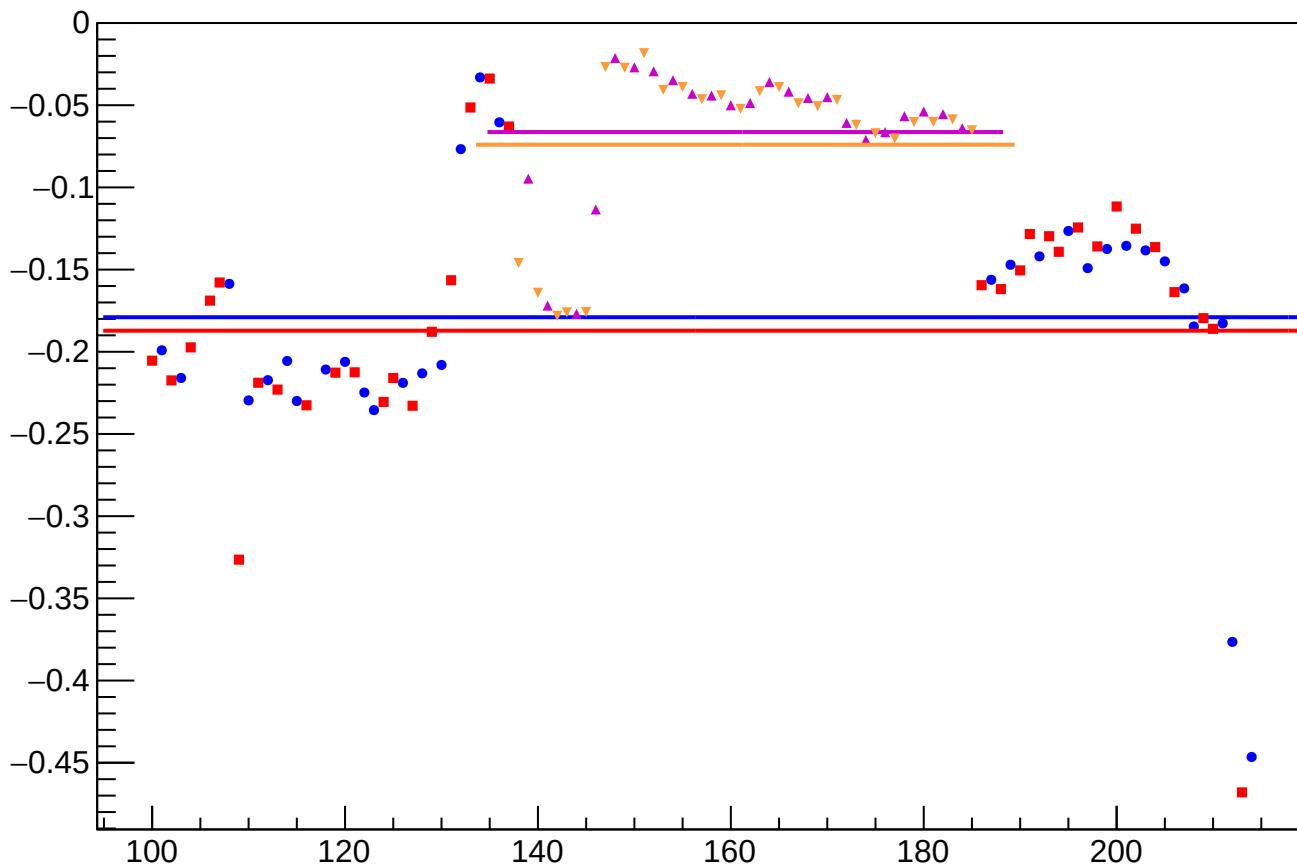
Right: 0.015+/-0.000 χ^2/NDF : 3987320.6/64

In: 0.013+/-0.000 χ^2/NDF : 2833265.5/53

Out: 0.013+/-0.000 χ^2/NDF : 3591781.7/58

All: 0.013+/-0.000 χ^2/NDF : 6425581.2/112

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.179+/-0.000 χ^2/NDF : 101163473.5/30

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.187+/-0.000 χ^2/NDF : 106646484.8/33

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

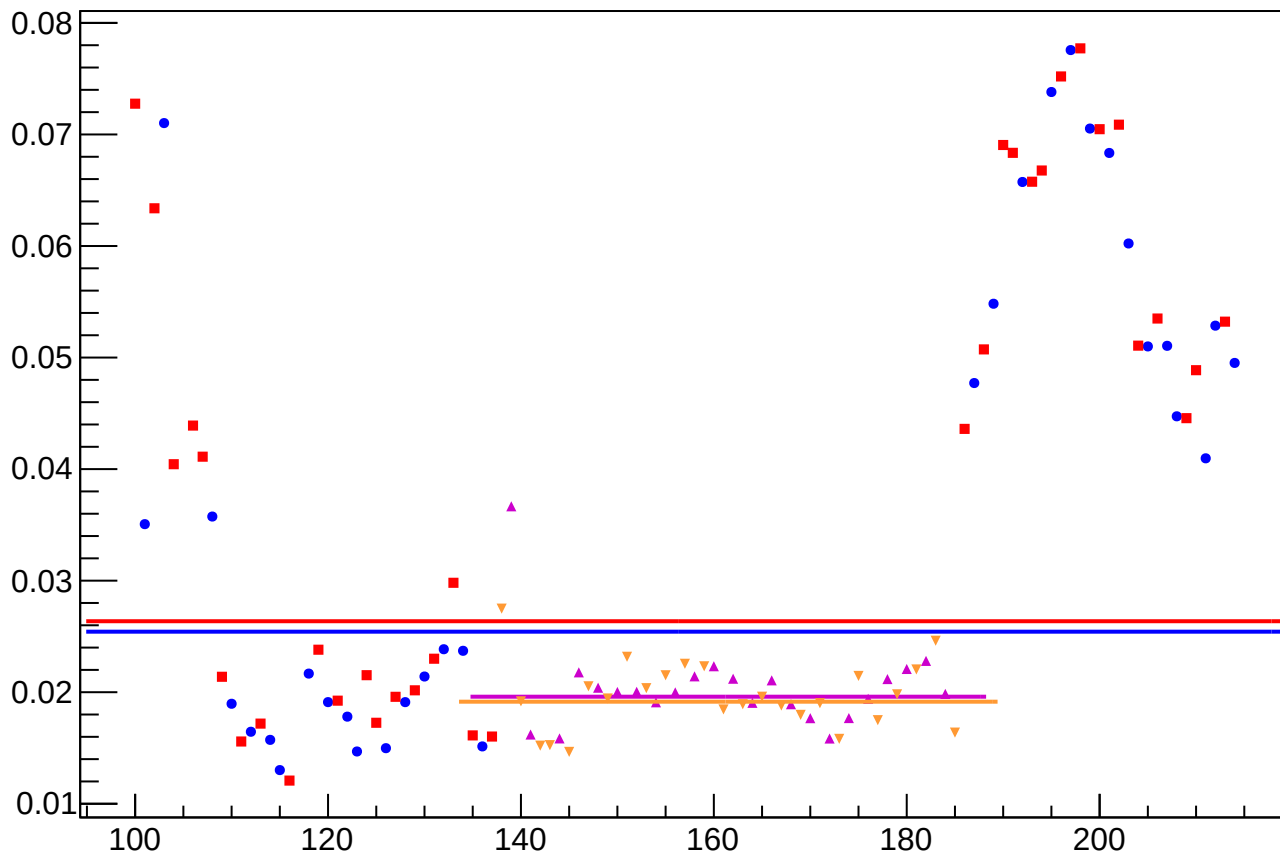
Right: -0.183+/-0.000 χ^2/NDF : 208372841.1/64

In: -0.102+/-0.000 χ^2/NDF : 326153721.3/53

Out: -0.106+/-0.000 χ^2/NDF : 364270480.3/58

All: -0.104+/-0.000 χ^2/NDF : 690955456.1/111

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 8493205.0/30

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8762430.9/33

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

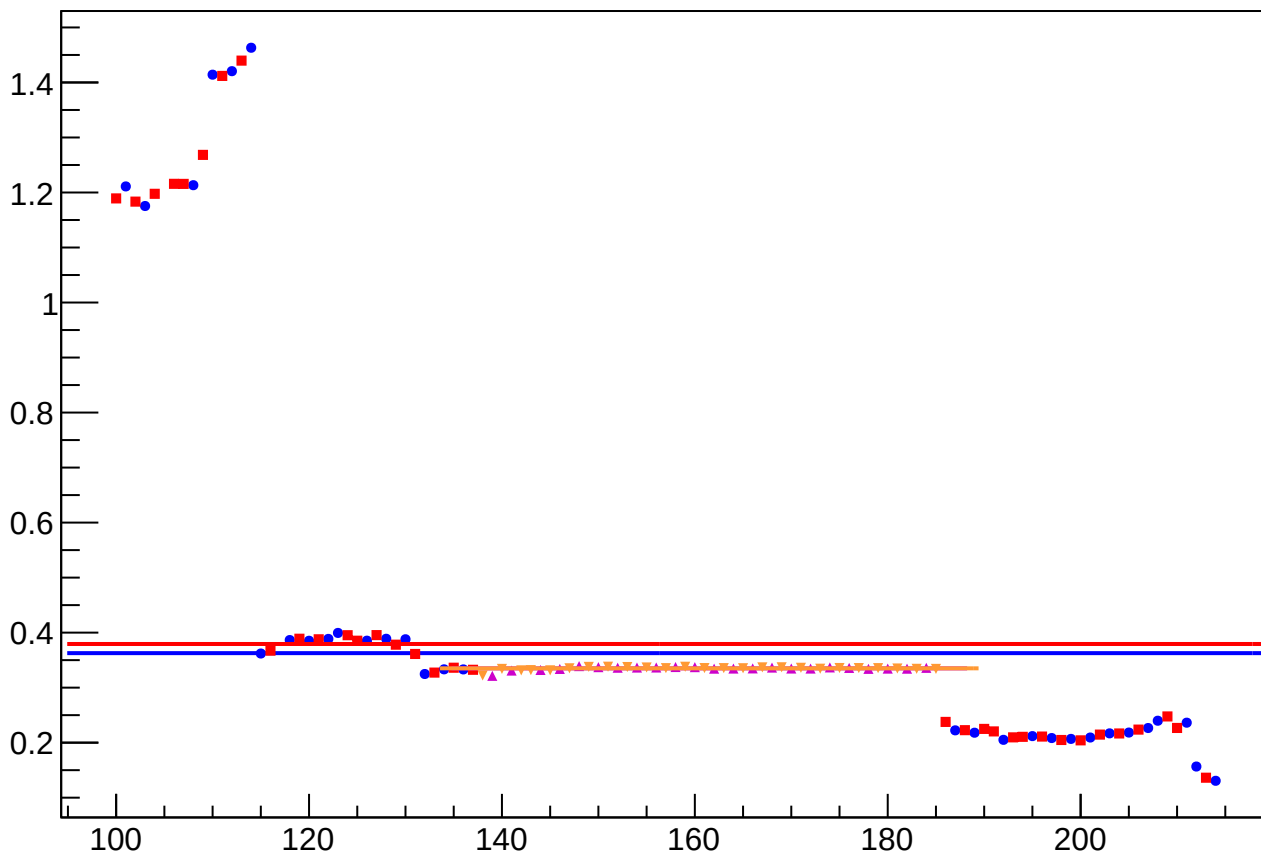
Right: 0.026+/-0.000 χ^2/NDF : 17270326.1/64

In: 0.021+/-0.000 χ^2/NDF : 9912842.6/53

Out: 0.021+/-0.000 χ^2/NDF : 10622449.2/58

All: 0.021+/-0.000 χ^2/NDF : 20538333.5/112

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.363+/-0.000 χ^2/NDF : 7799558997.4/30

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.379+/-0.000 χ^2/NDF : 8819507193.5/33

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

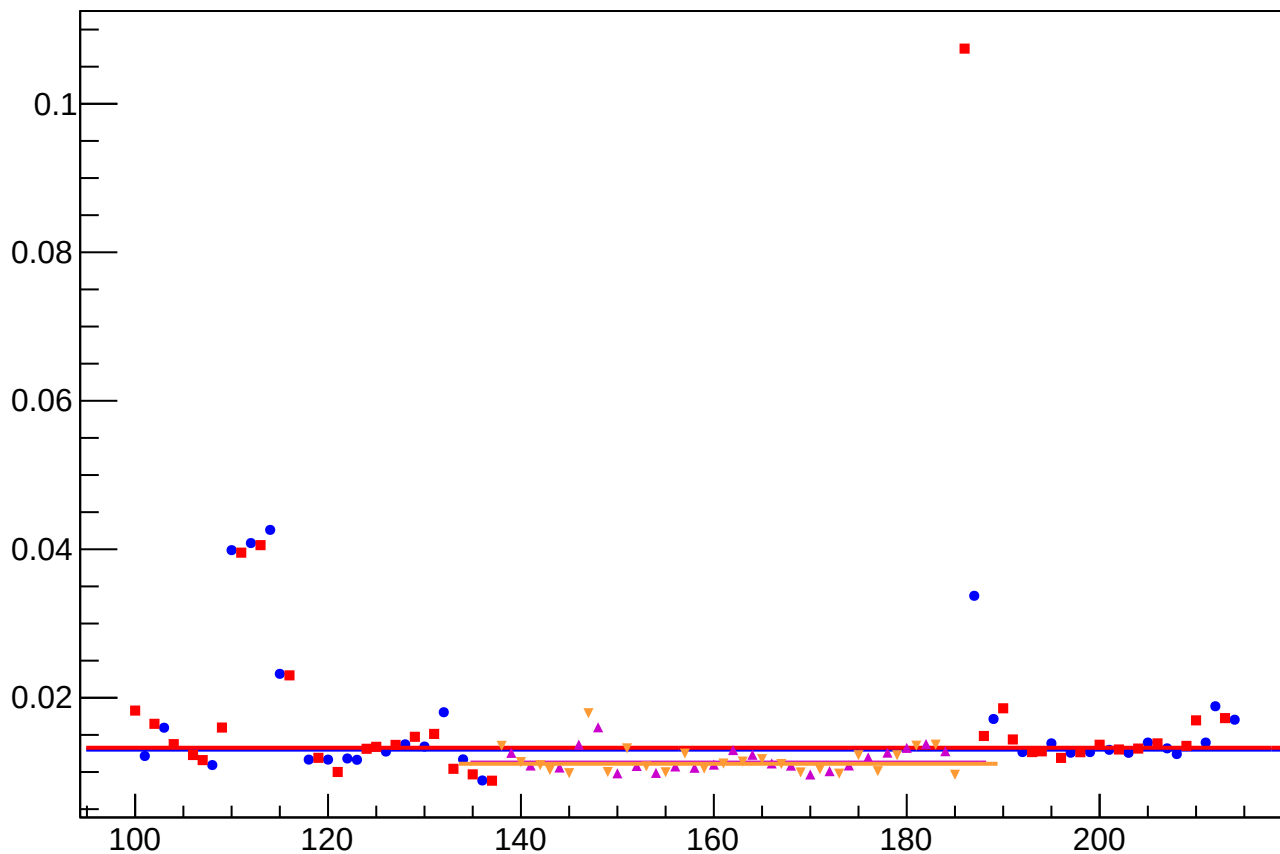
Right: 0.371+/-0.000 χ^2/NDF : 16631202385.2/64

In: 0.346+/-0.000 χ^2/NDF : 7841197635.4/53

Out: 0.352+/-0.000 χ^2/NDF : 8925891240.6/58

All: 0.349+/-0.000 χ^2/NDF : 16770643830.6/115

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1767883.1/30

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2094321.5/33

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

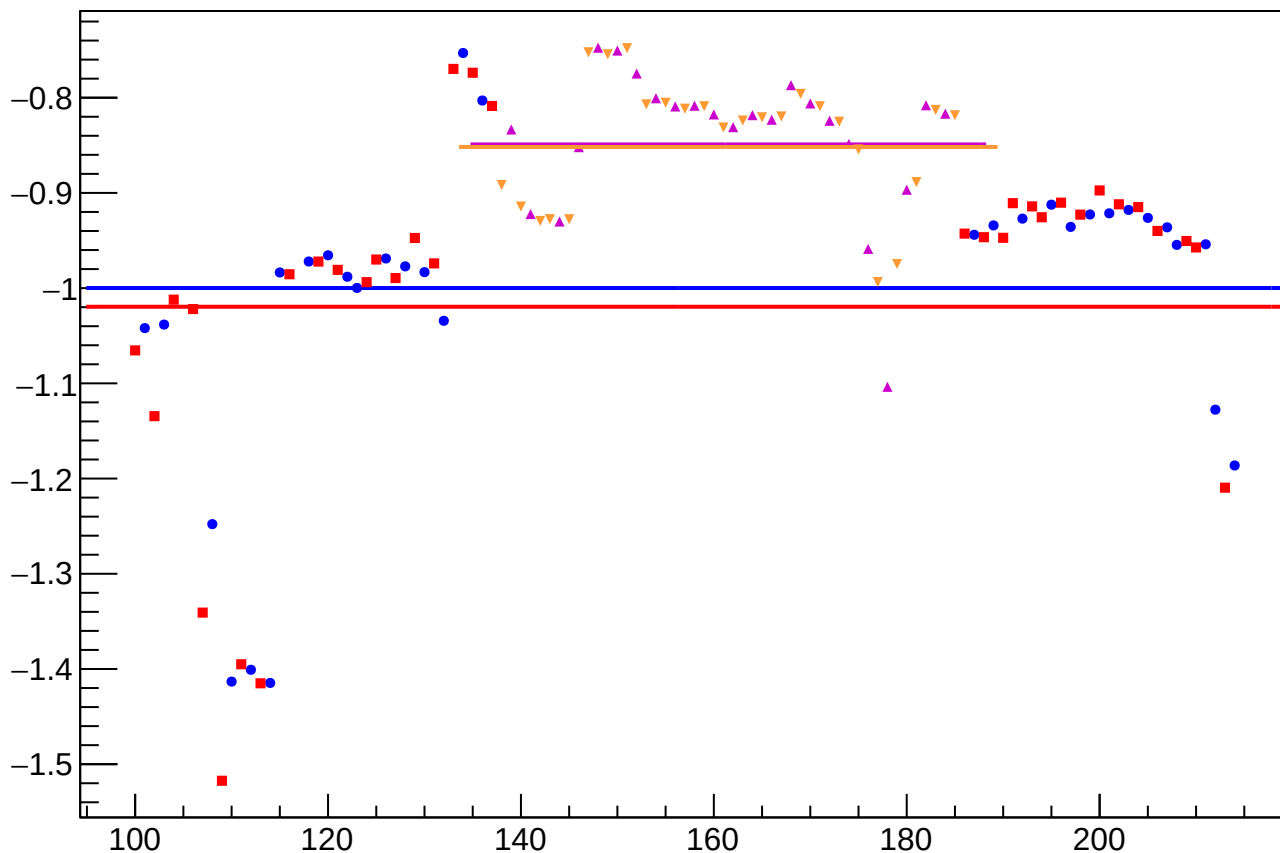
Right: 0.013+/-0.000 χ^2/NDF : 3867761.1/64

In: 0.012+/-0.000 χ^2/NDF : 2591458.5/53

Out: 0.012+/-0.000 χ^2/NDF : 3201969.1/58

All: 0.012+/-0.000 χ^2/NDF : 5793974.9/112

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.000+/-0.000 χ^2/NDF : 418631609.4/30

Left Out: -0.852+/-0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.020+/-0.000 χ^2/NDF : 568645599.1/33

Left In: -0.849+/-0.000 χ^2/NDF : 256391274.4/22

Left: -0.850+/-0.000 χ^2/NDF : 445636655.2/47

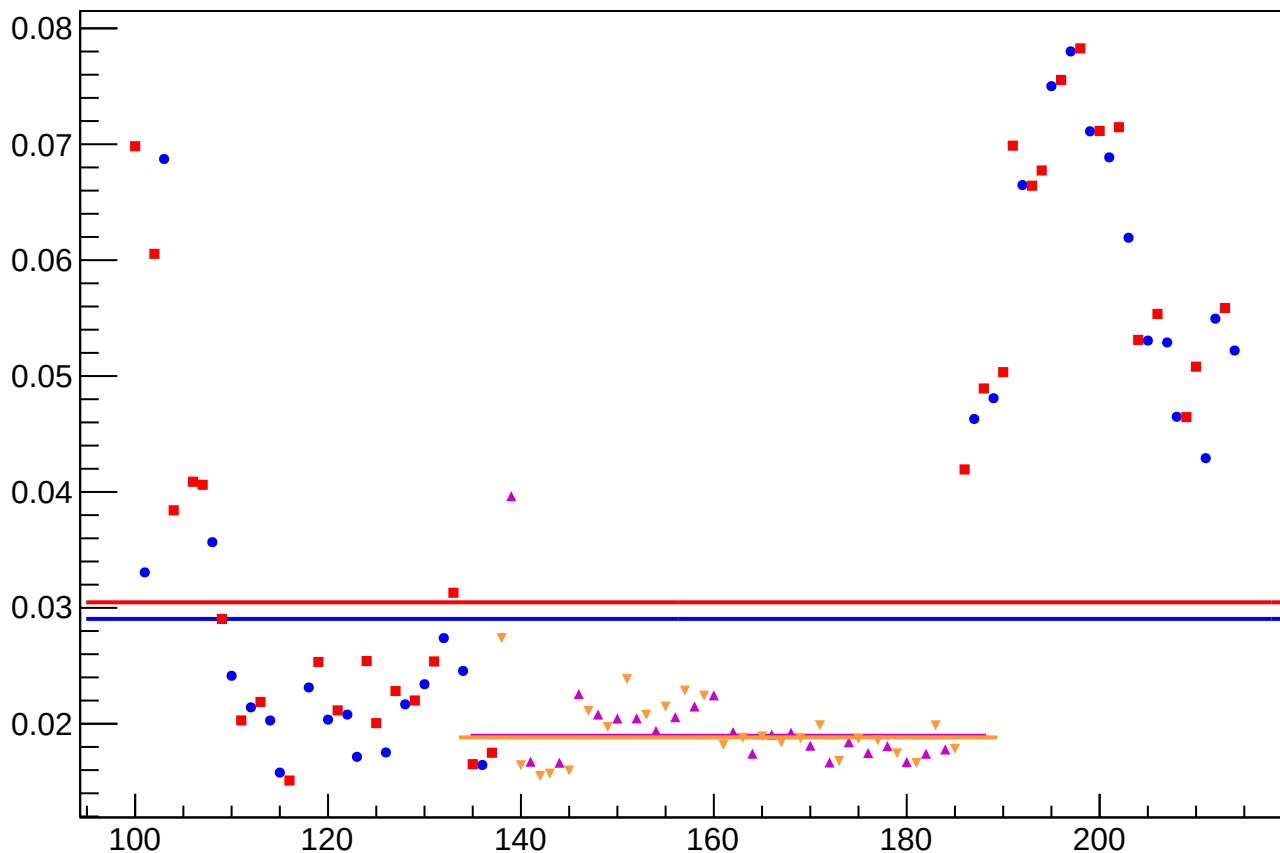
Right: -1.009+/-0.000 χ^2/NDF : 989888222.8/64

In: -0.889+/-0.000 χ^2/NDF : 907397597.7/53

Out: -0.892+/-0.000 χ^2/NDF : 1039014511.2/58

All: -0.890+/-0.000 χ^2/NDF : 1946652603.8/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 7197427.6/30

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.030+/-0.000 χ^2/NDF : 7099703.1/33

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

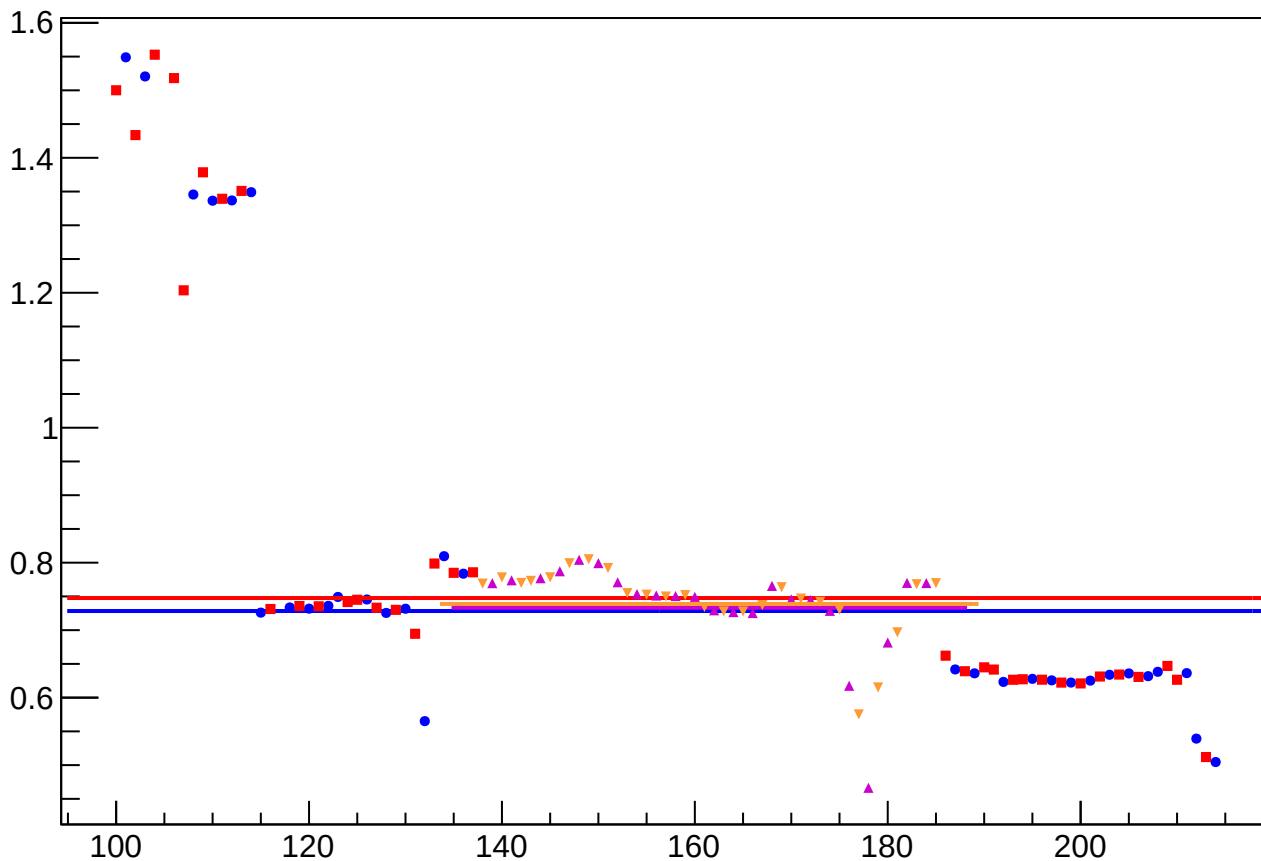
Right: 0.030+/-0.000 χ^2/NDF : 14324784.6/64

In: 0.022+/-0.000 χ^2/NDF : 9889025.5/53

Out: 0.022+/-0.000 χ^2/NDF : 10303654.8/58

All: 0.022+/-0.000 χ^2/NDF : 20192695.8/112

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.728 $\pm$ 0.000 χ^2/NDF : 3710864660.4/30

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF :333013236.5/24

Right Out: 0.748 $\pm$ 0.000 χ^2/NDF : 3969360937.7/33

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 904456968.5/47

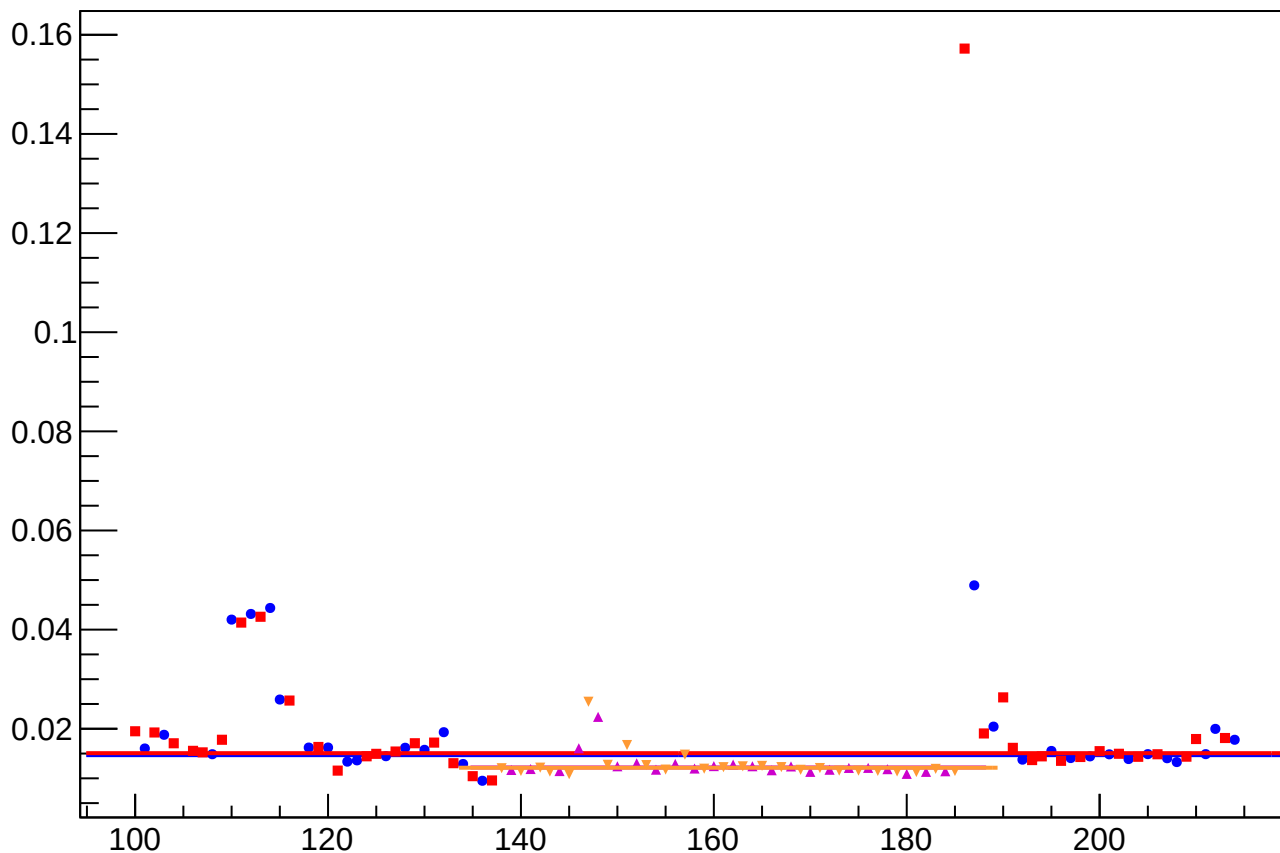
Right: 0.738 $\pm$ 0.000 χ^2/NDF : 7692924082.0/64

In: 0.731 $\pm$ 0.000 χ^2/NDF :4281488673.4/53

Out: 0.742 $\pm$ 0.000 χ^2/NDF :4305688625.2/58

All: 0.737 $\pm$ 0.000 χ^2/NDF : 8597630416.7/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1807026.1/30

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2164625.9/33

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

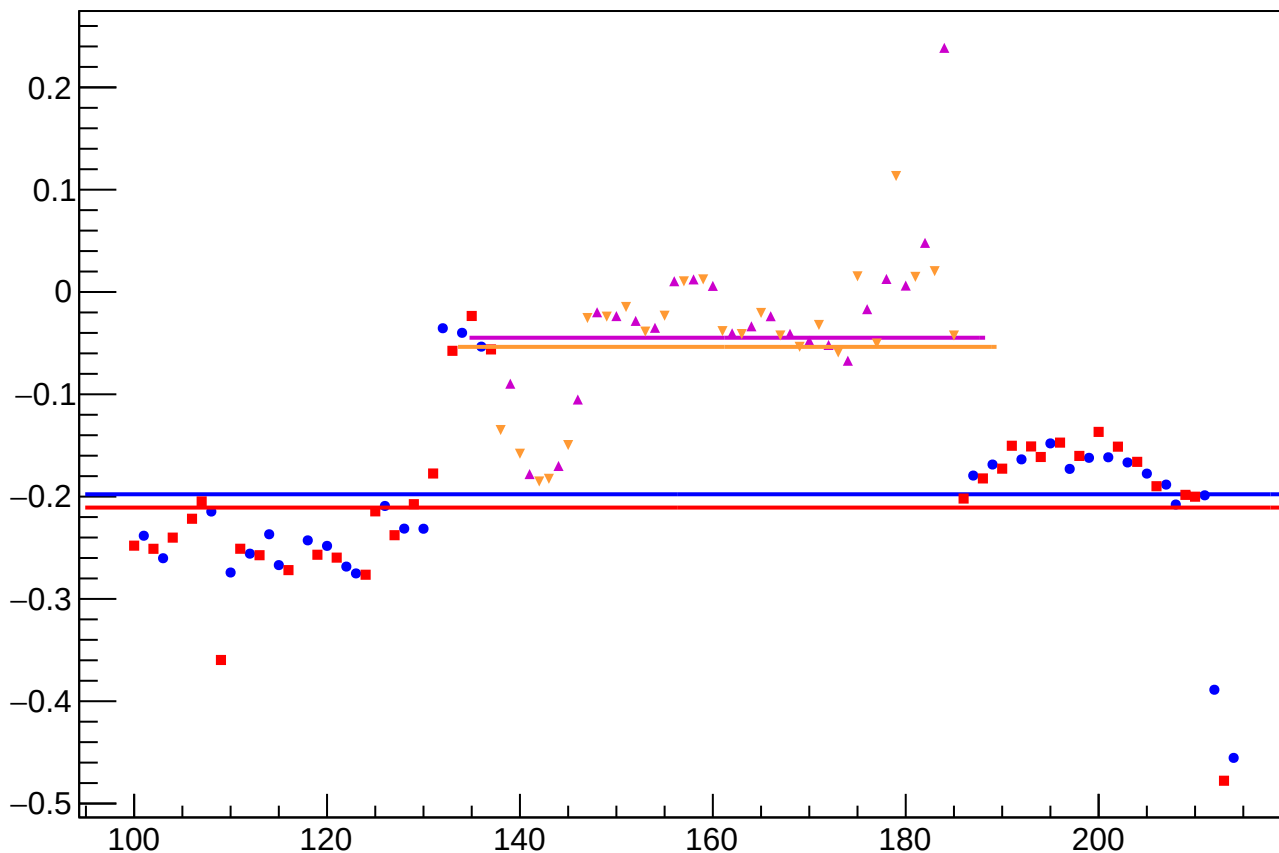
Right: 0.015+/-0.000 χ^2/NDF : 3982651.7/64

In: 0.013+/-0.000 χ^2/NDF : 2820565.0/53

Out: 0.013+/-0.000 χ^2/NDF : 3545961.0/58

All: 0.013+/-0.000 χ^2/NDF : 6367072.2/112

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.198 ± 0.000 $\chi^2/\text{NDF}: 136903487.8/30$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 132531792.0/33$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

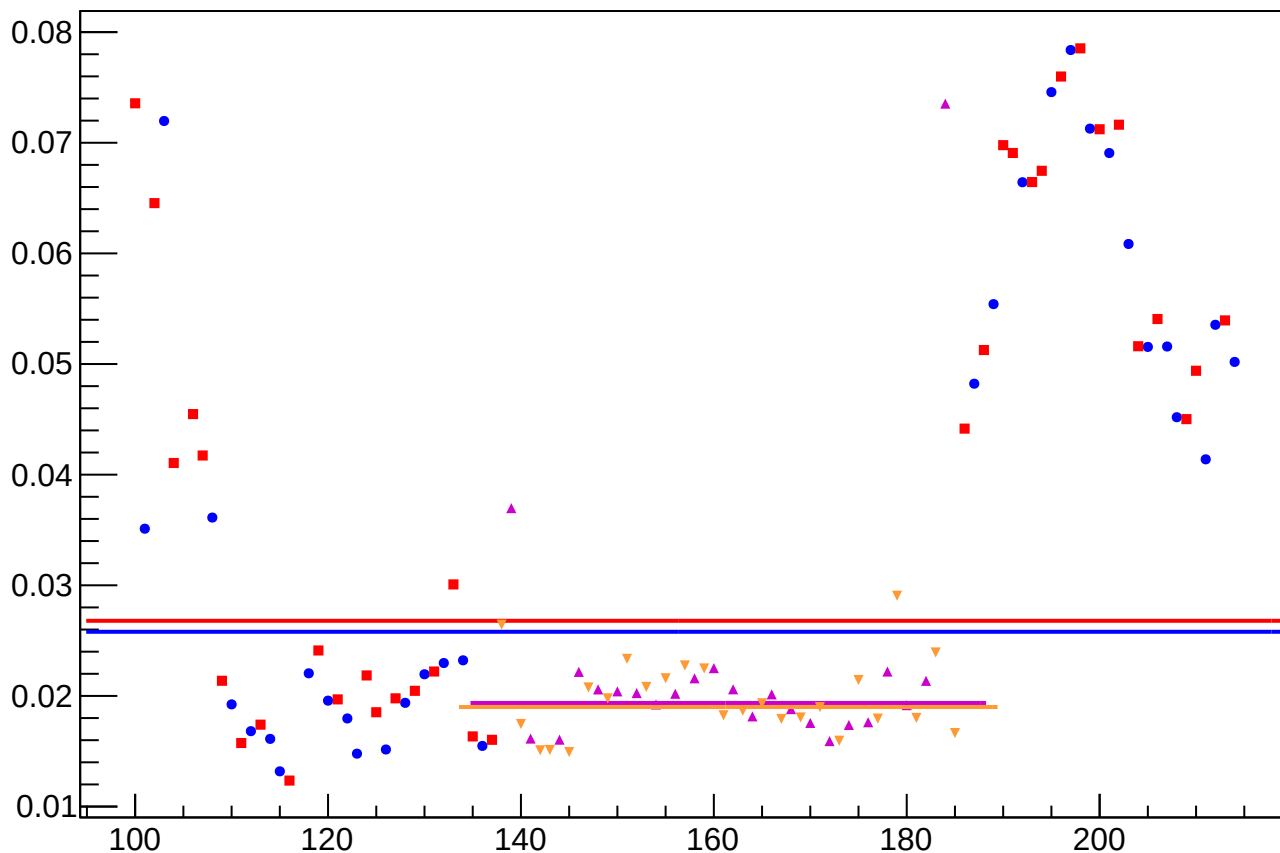
Right: -0.204 ± 0.000 $\chi^2/\text{NDF}: 270810349.9/64$

In: -0.092 ± 0.000 $\chi^2/\text{NDF}: 533033894.4/53$

Out: -0.098 ± 0.000 $\chi^2/\text{NDF}: 581734973.0/58$

All: -0.095 ± 0.000 $\chi^2/\text{NDF}: 1115629945.7/111$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.026+/-0.000 χ^2/NDF : 8430332.8/30

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.027+/-0.000 χ^2/NDF : 8705642.4/33

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

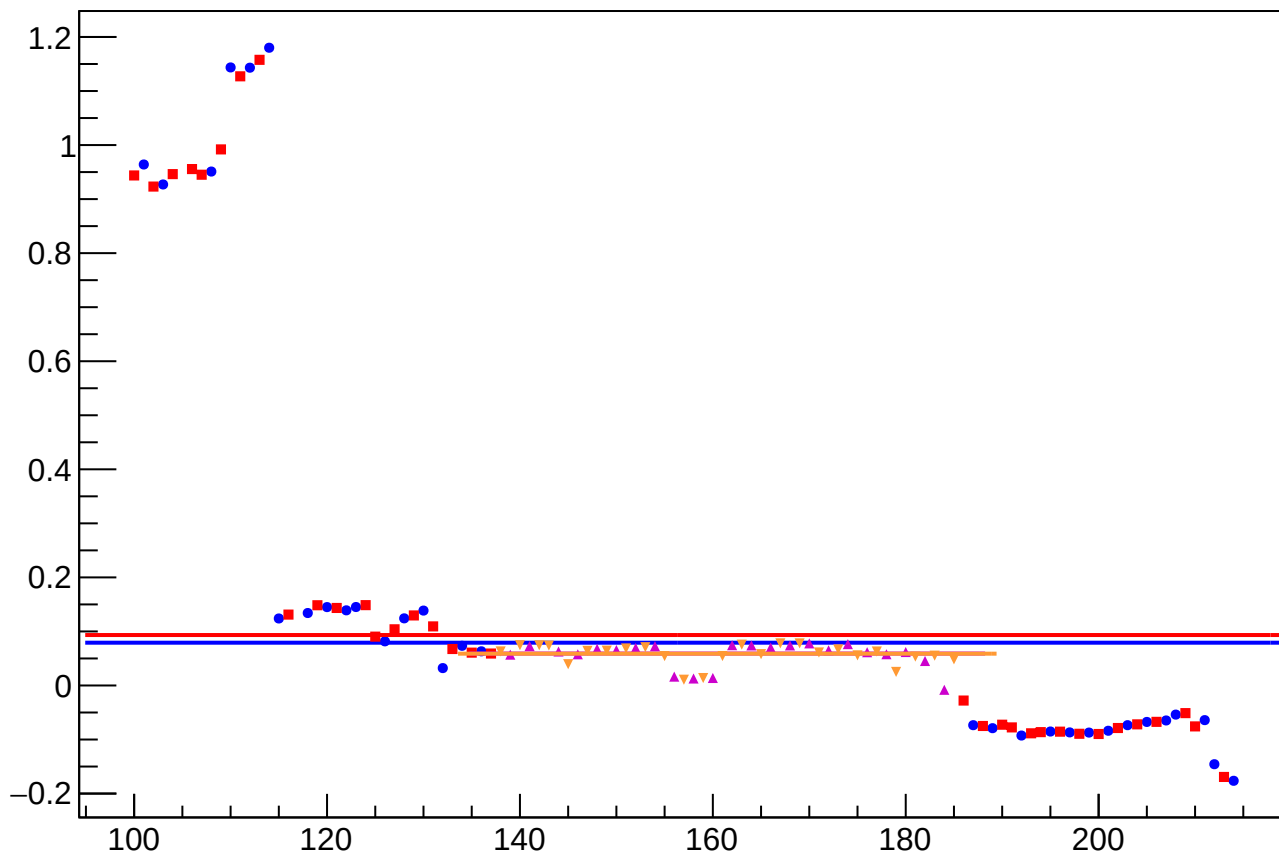
Right: 0.026+/-0.000 χ^2/NDF : 17152005.8/64

In: 0.021+/-0.000 χ^2/NDF : 10239674.9/53

Out: 0.021+/-0.000 χ^2/NDF : 10791909.6/58

All: 0.021+/-0.000 χ^2/NDF : 21033237.9/112

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.079+/-0.000 χ^2/NDF : 8485216066.9/30

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.093+/-0.000 χ^2/NDF : 9346745732.7/33

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

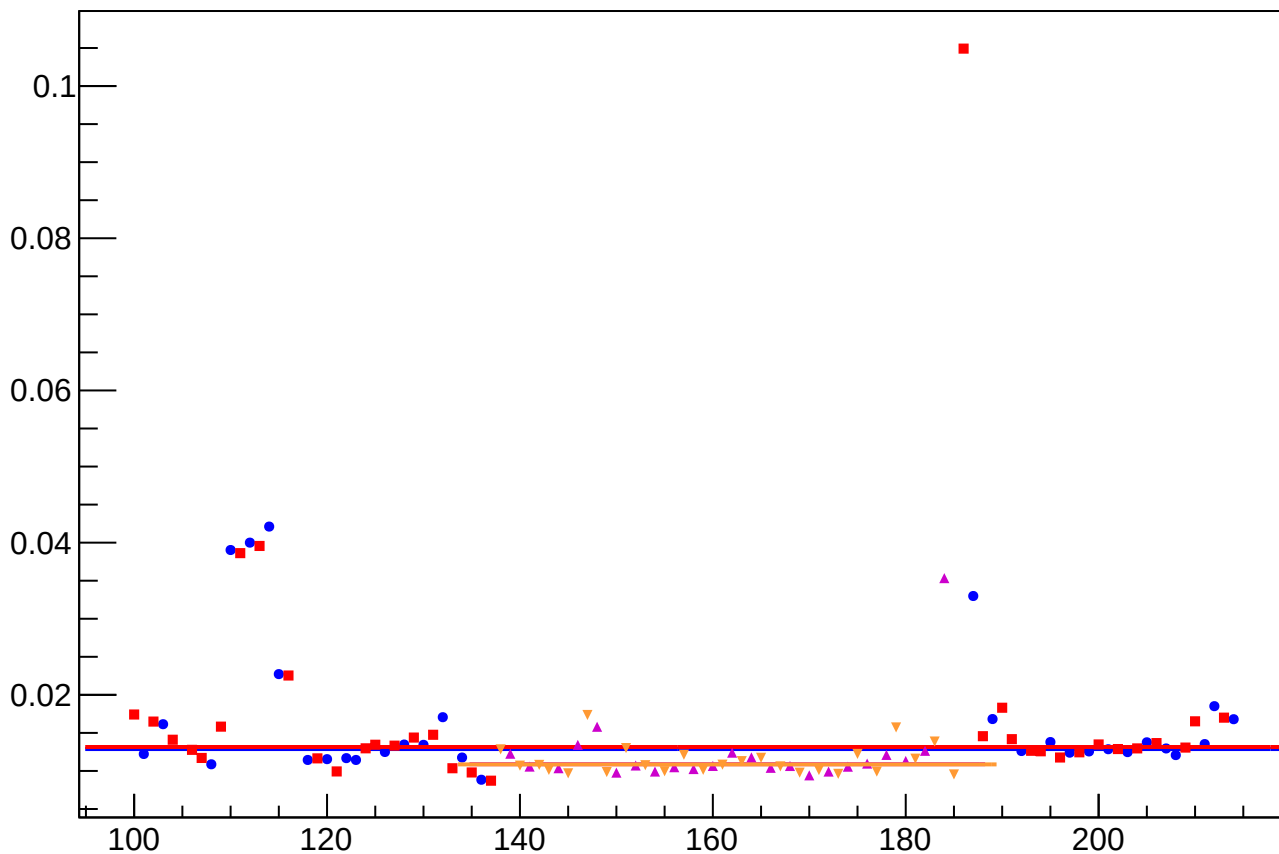
Right: 0.086+/-0.000 χ^2/NDF : 17840971617.2/64

In: 0.067+/-0.000 χ^2/NDF : 8565668272.0/53

Out: 0.072+/-0.000 χ^2/NDF : 9458723630.9/58

All: 0.070+/-0.000 χ^2/NDF : 18027084713.2/117

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1721911.7/30

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2036025.8/33

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

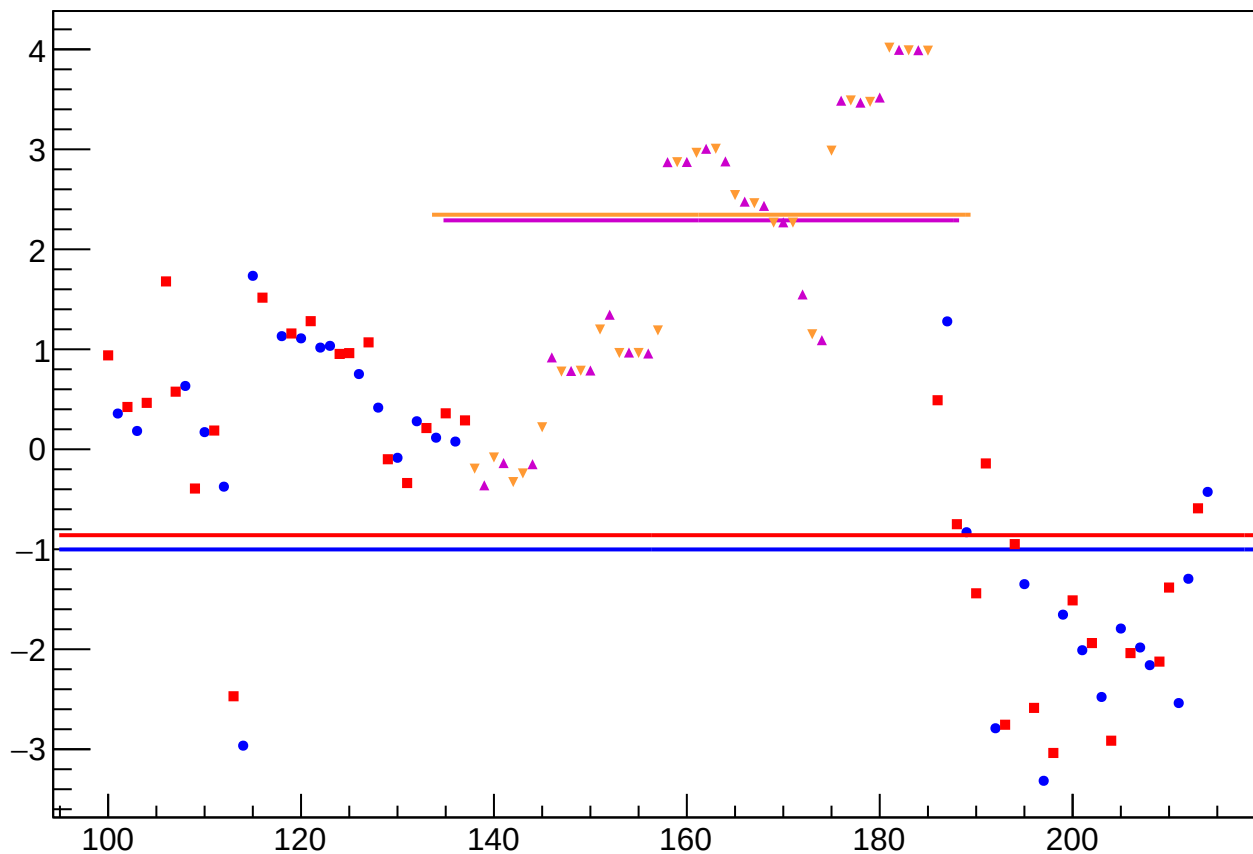
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3764307.3/64

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2681885.9/53

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3212336.7/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5894637.6/112

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.002 ± 0.000 $\chi^2/\text{NDF}: 7759525161.8/30$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.859 ± 0.000 $\chi^2/\text{NDF}: 8182386545.8/33$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

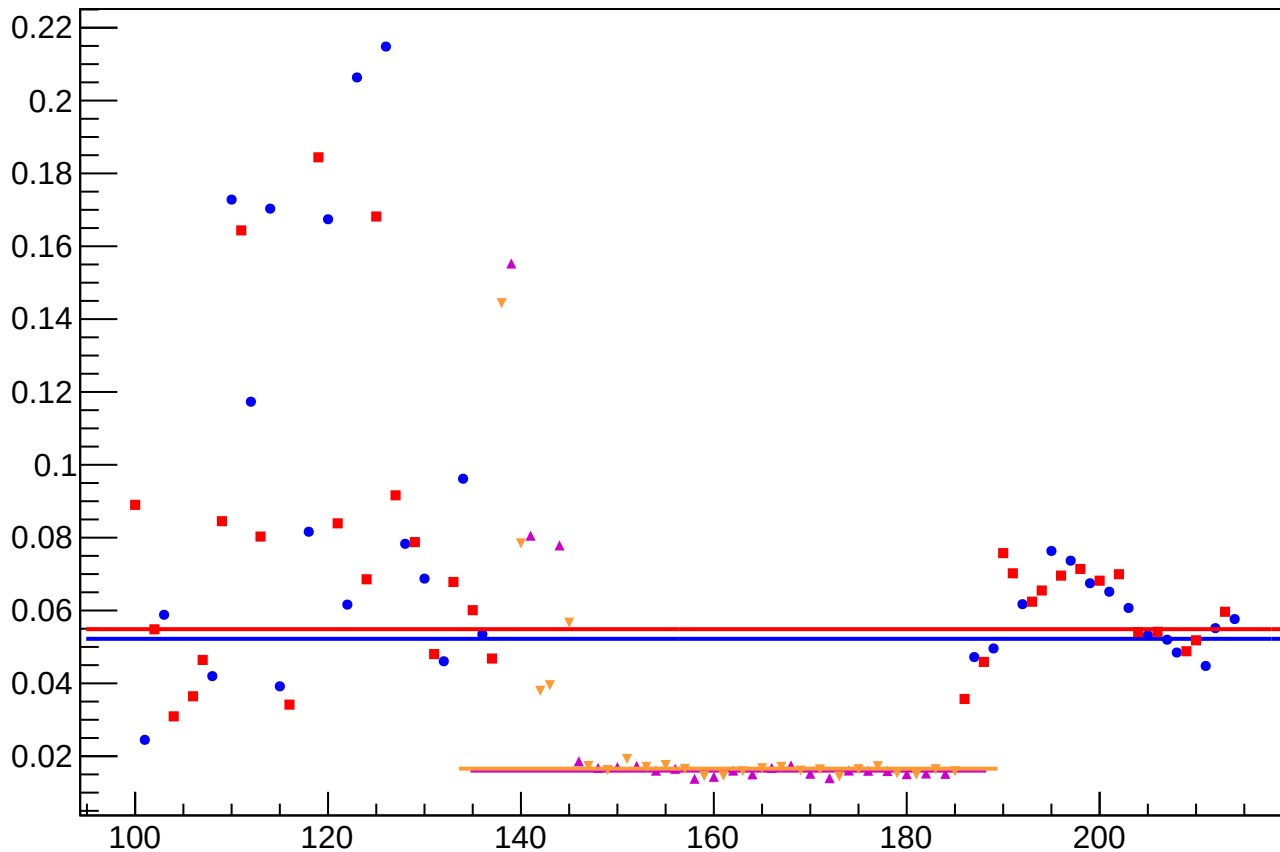
Right: -0.932 ± 0.000 $\chi^2/\text{NDF}: 15988040743.5/64$

In: 2.019 ± 0.000 $\chi^2/\text{NDF}: 114802701352.5/53$

Out: 2.089 ± 0.000 $\chi^2/\text{NDF}: 113670914089.9/58$

All: 2.053 ± 0.000 $\chi^2/\text{NDF}: 228609718781.8$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3564965.2/30

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2873225.3/33

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

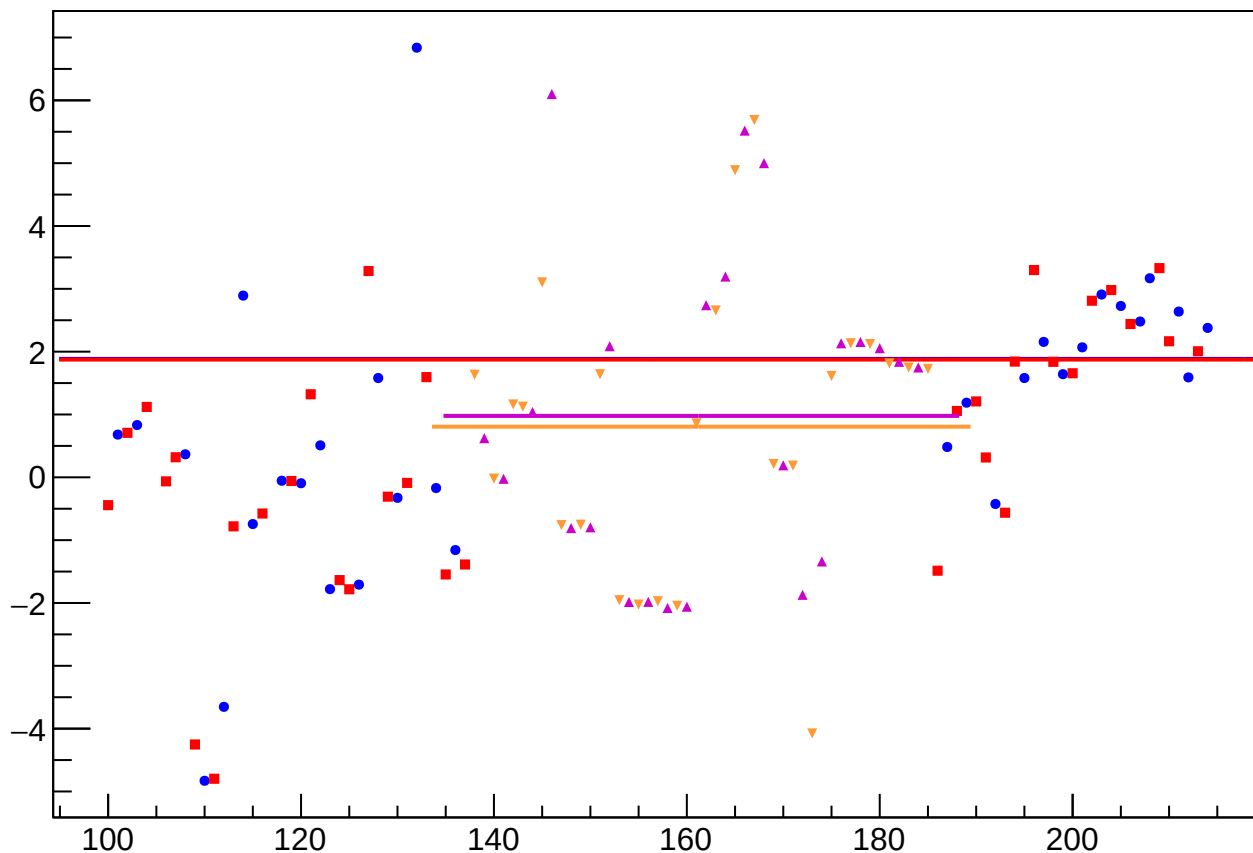
Right: 0.054+/-0.000 χ^2/NDF : 6470166.3/64

In: 0.019+/-0.000 χ^2/NDF : 17115368.9/53

Out: 0.020+/-0.000 χ^2/NDF : 17485233.5/58

All: 0.019+/-0.000 χ^2/NDF : 34623333.6/112

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.885+/-0.000

χ^2/NDF : 38996683499.0/30

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.880+/-0.000

χ^2/NDF : 78603844444.6/64

Right Out: 1.874+/-0.000

χ^2/NDF : 39605561258.6/33

In: 1.211+/-0.000

χ^2/NDF : 625252120339.3/53

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

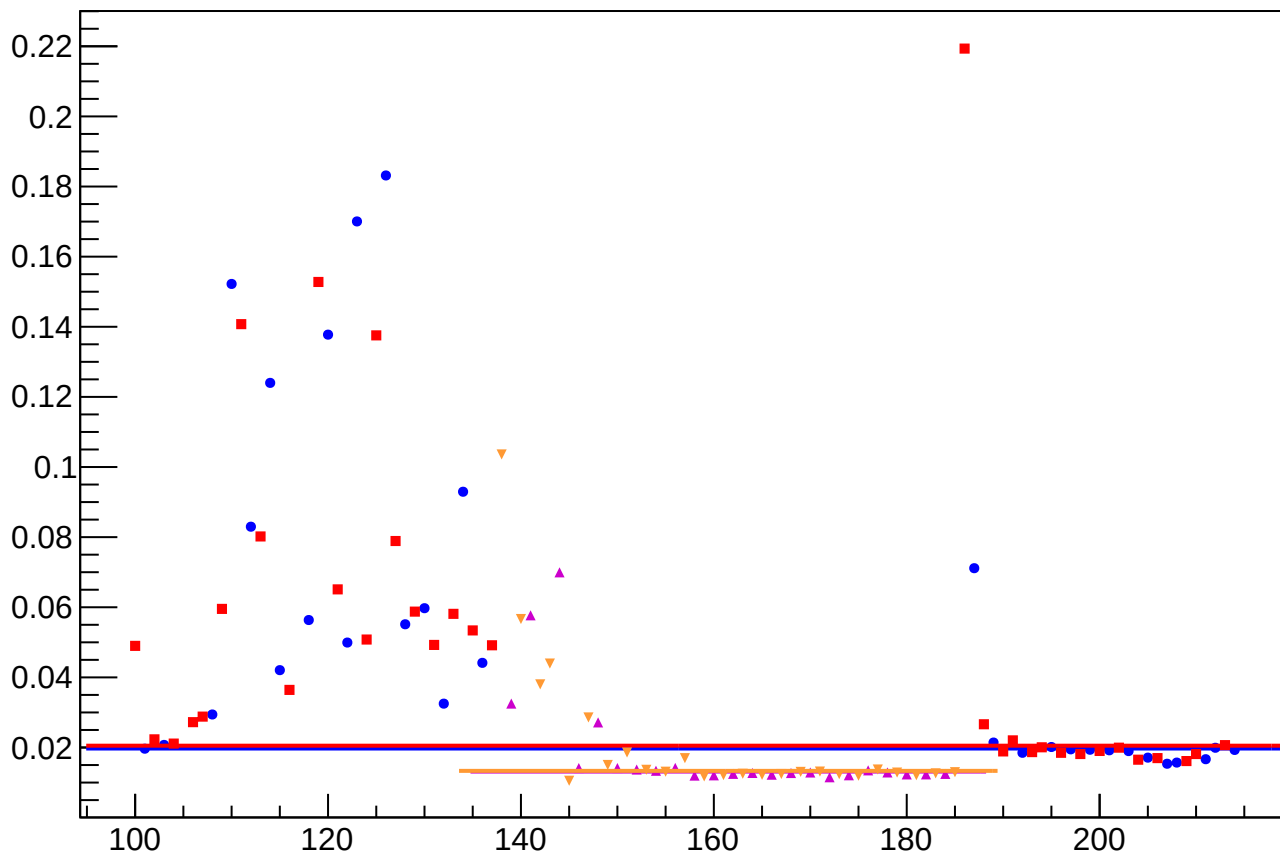
Out: 1.069+/-0.000

χ^2/NDF : 571029336274.6/58

All: 1.141+/-0.000

χ^2/NDF : 1197428143747.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4196812.9/30

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167049.8/33

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

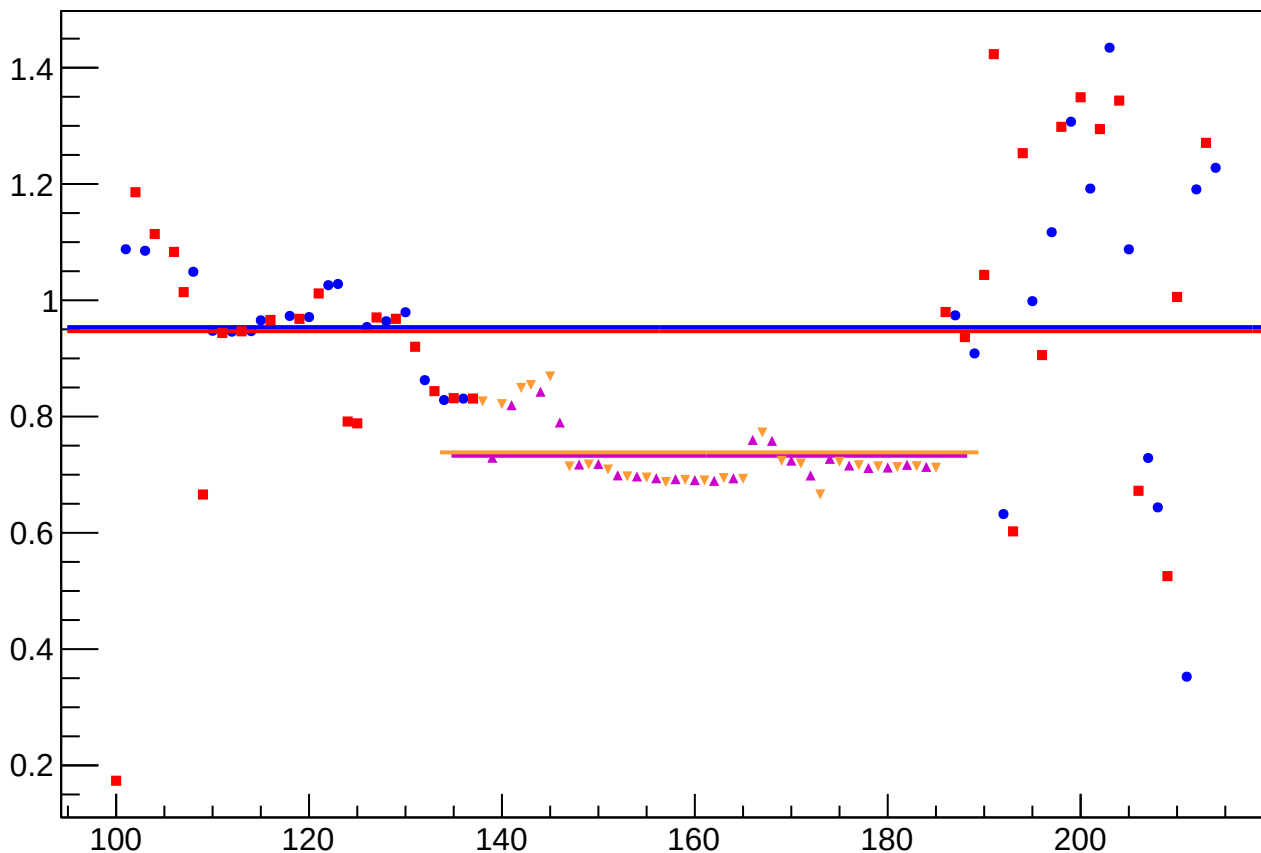
Right: 0.020+/-0.000 χ^2/NDF : 9382503.6/64

In: 0.015+/-0.000 χ^2/NDF :8037788.3/53

Out: 0.015+/-0.000 χ^2/NDF :10151096.0/58

All: 0.015+/-0.000 χ^2/NDF : 18197540.6/112

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 969114154.8/30

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.947+/-0.000 χ^2/NDF : 1201270257.7/33

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

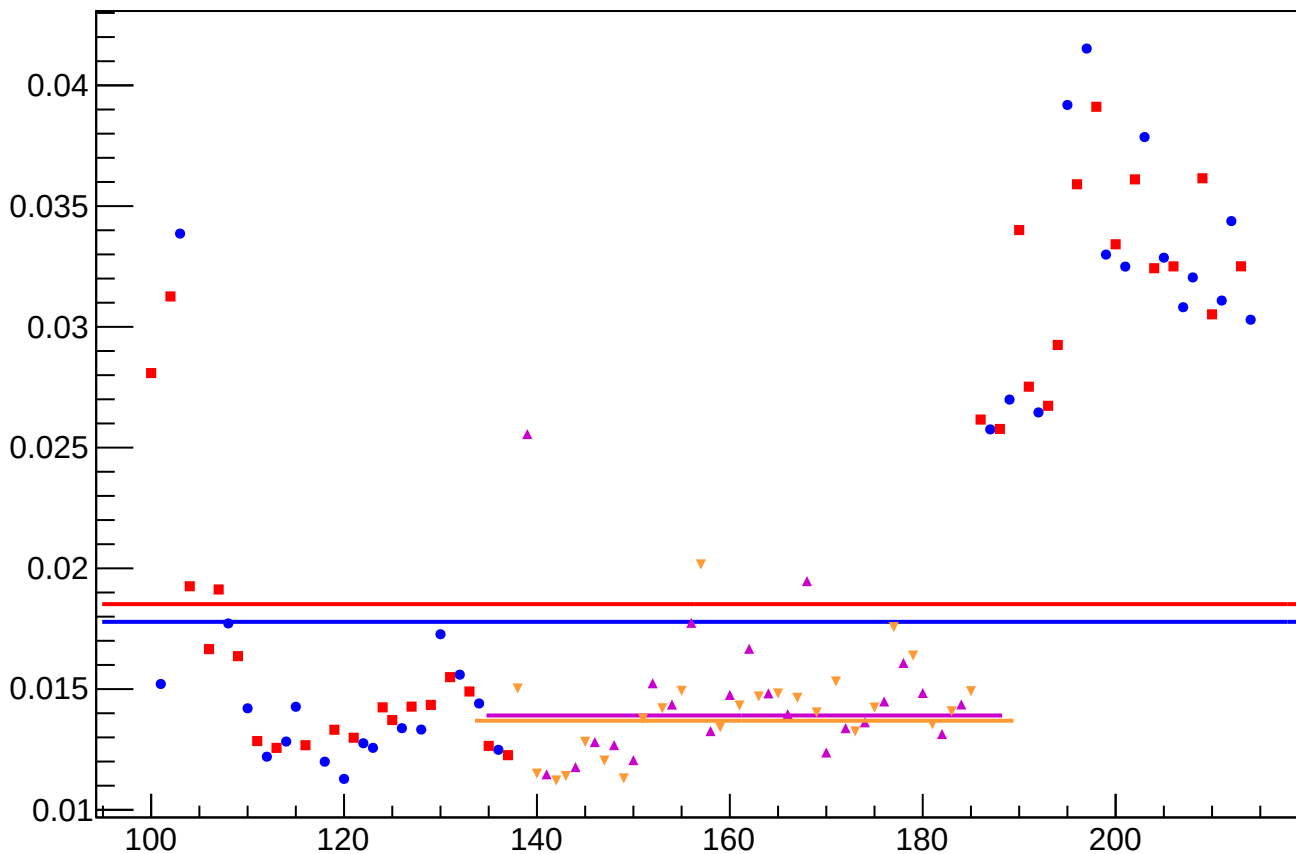
Right: 0.950+/-0.000 χ^2/NDF : 2171337368.2/64

In: 0.806+/-0.000 χ^2/NDF : 2438418045.7/53

Out: 0.803+/-0.000 χ^2/NDF : 2676663458.4/58

All: 0.805+/-0.000 χ^2/NDF : 5115615388.1/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 5398725.9/30

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:528480.6/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 4789479.3/33

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1300553.4/47

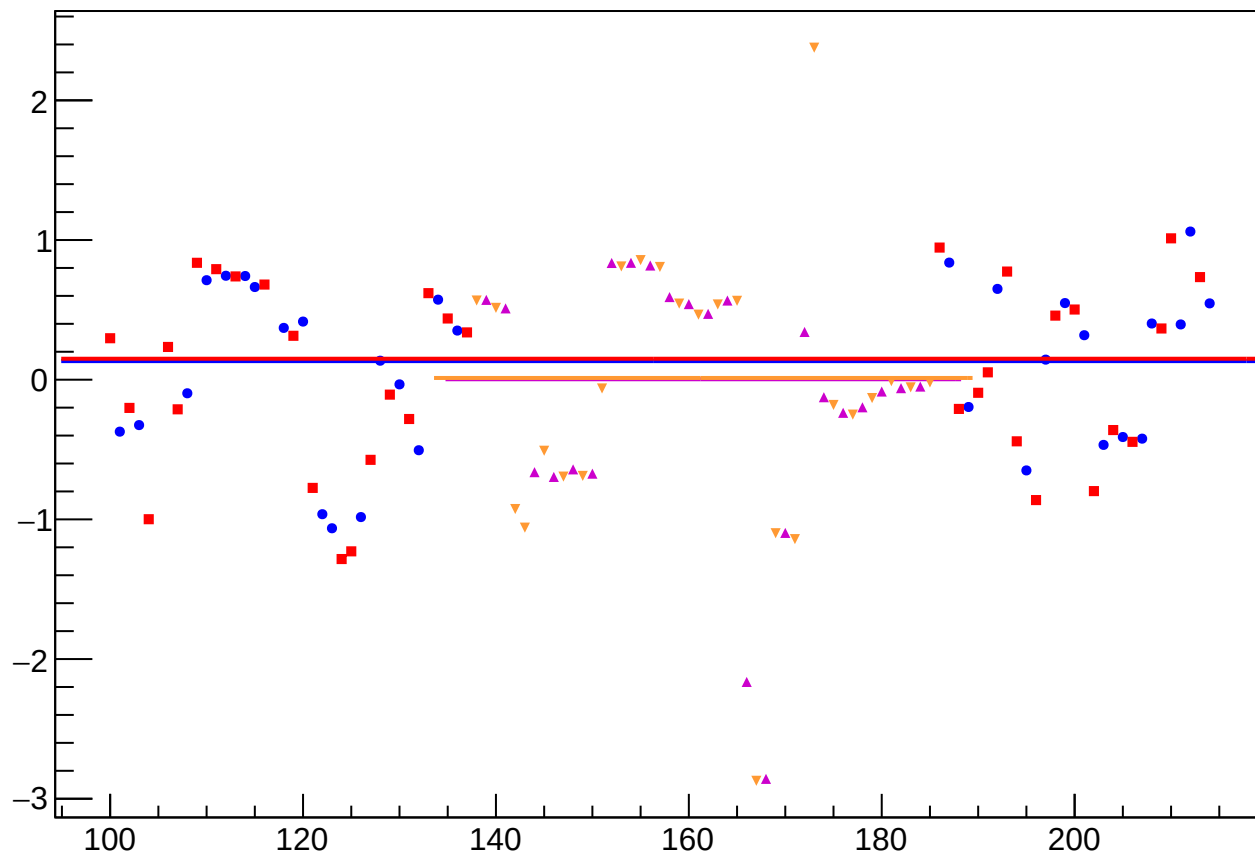
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 10209351.1/64

In: 0.015 $\pm$ 0.000 χ^2 /NDF:6964831.2/53

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:6567863.5/58

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 13532699.5/112

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.133+/-0.000 χ^2/NDF : 29674965046.0/30

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.150+/-0.000 χ^2/NDF : 40764385031.3/33

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

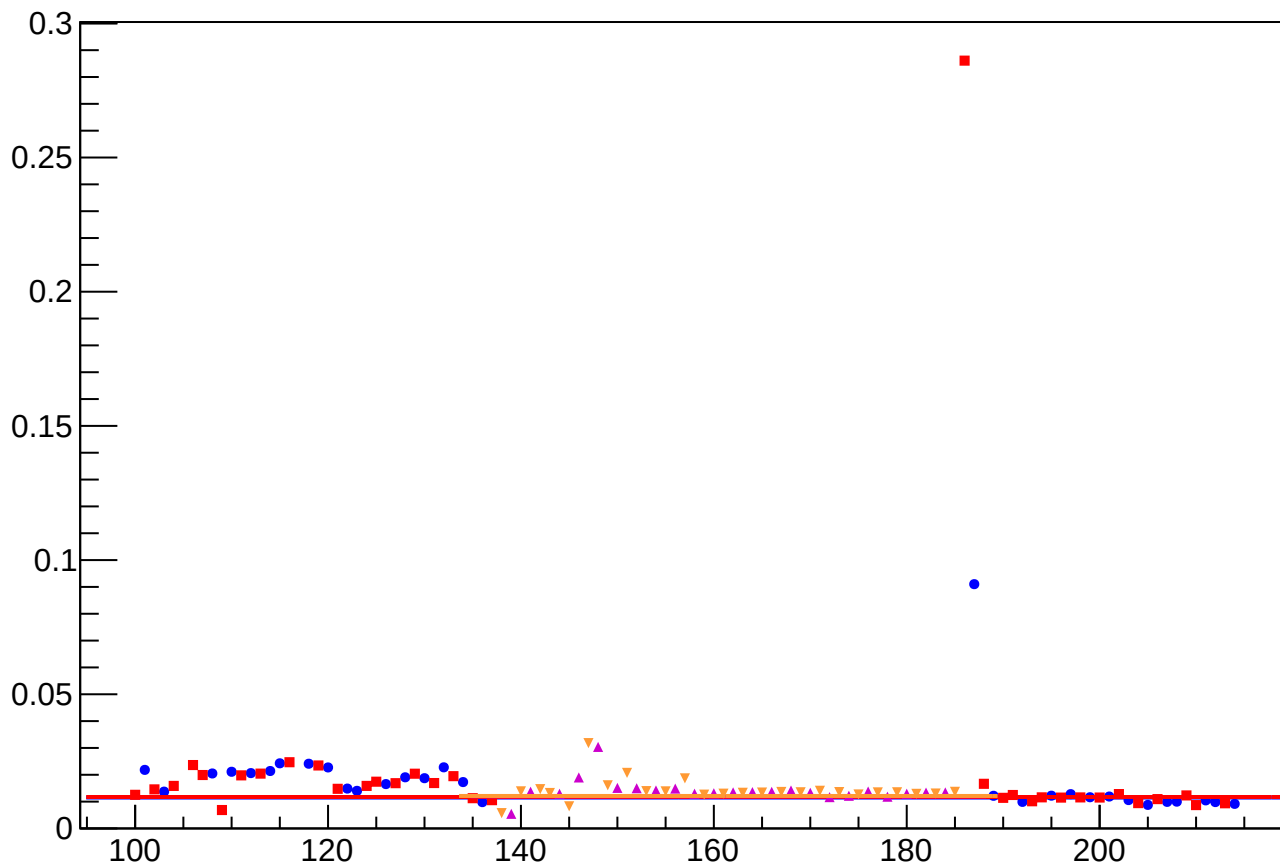
Right: 0.141+/-0.000 χ^2/NDF : 70454391020.8/64

In: 0.068+/-0.000 χ^2/NDF : 109382440179.8/53

Out: 0.079+/-0.000 χ^2/NDF : 138147705418.6/58

All: 0.073+/-0.000 χ^2/NDF : 247542416223.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2537422.6/30

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2968421.2/33

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

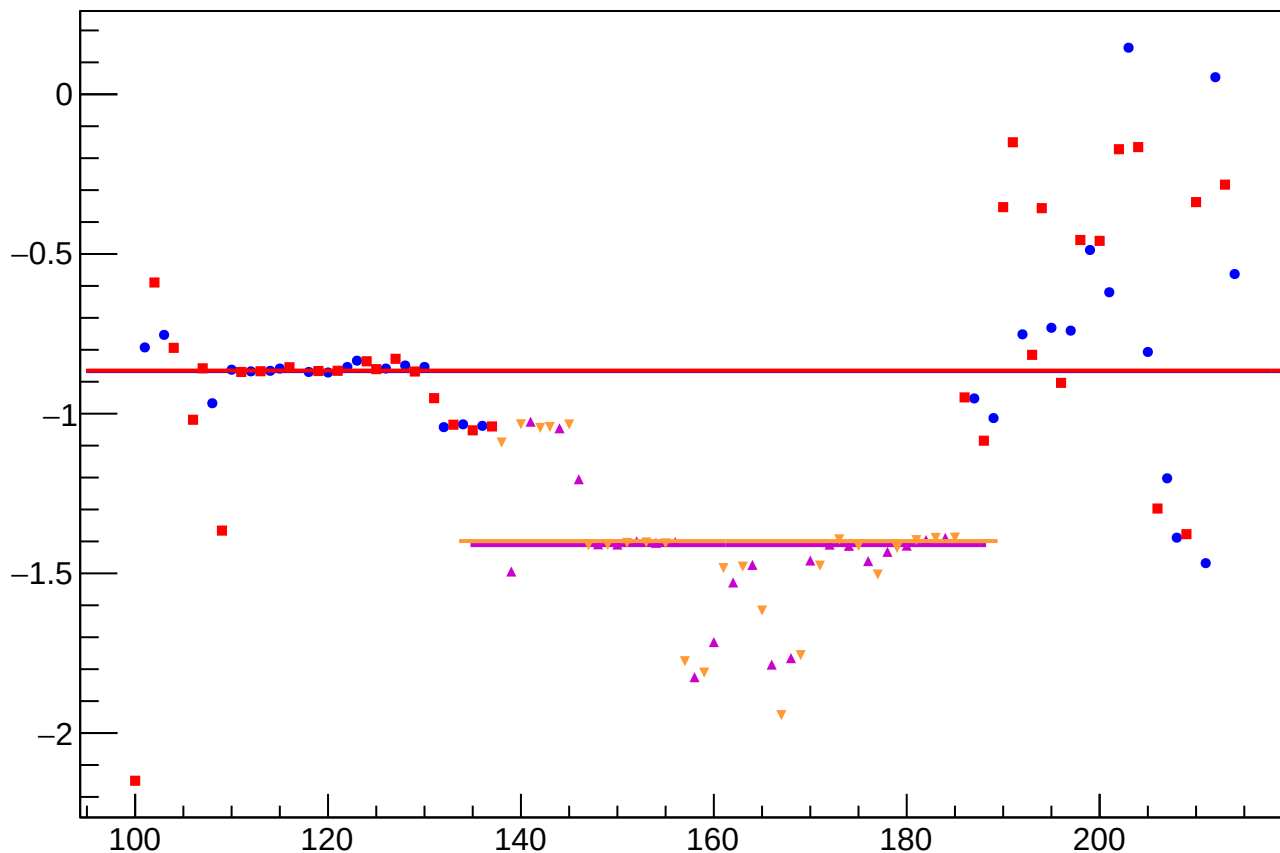
Right: 0.012+/-0.000 χ^2/NDF : 5509851.7/64

In: 0.012+/-0.000 χ^2/NDF :5564365.1/53

Out: 0.012+/-0.000 χ^2/NDF :6089328.7/58

All: 0.012+/-0.000 χ^2/NDF : 11659044.3/112

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.867 ± 0.000 $\chi^2/\text{NDF}: 350728616.1/30$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.865 ± 0.000 $\chi^2/\text{NDF}: 482626288.6/33$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

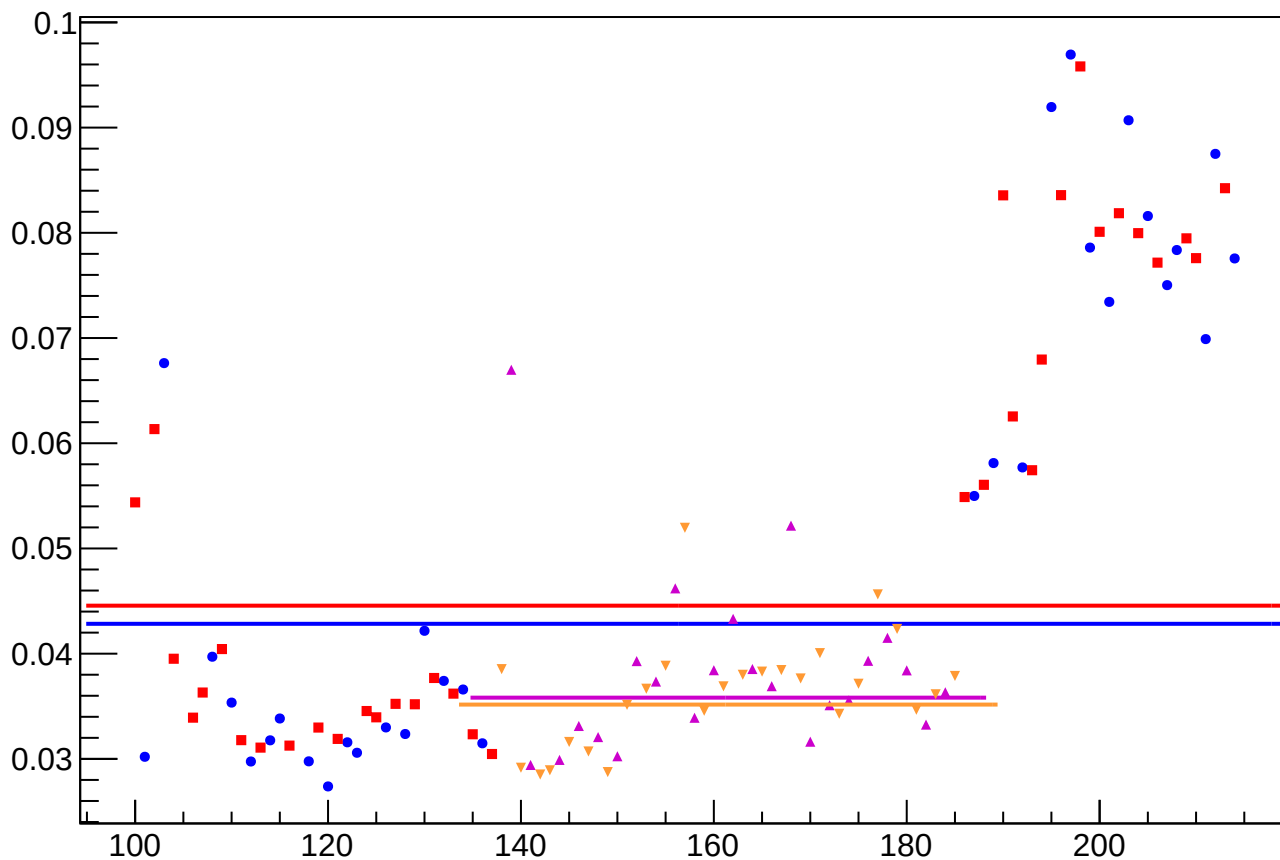
Right: -0.866 ± 0.000 $\chi^2/\text{NDF}: 833363940.8/64$

In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 2172262959.2/53$

Out: -1.214 ± 0.000 $\chi^2/\text{NDF}: 2497601905.6/58$

All: -1.212 ± 0.000 $\chi^2/\text{NDF}: 4670079967.5/111$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.000 χ^2 /NDF: 5180147.9/30

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.045 $\pm$ 0.000 χ^2 /NDF: 4353937.8/33

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

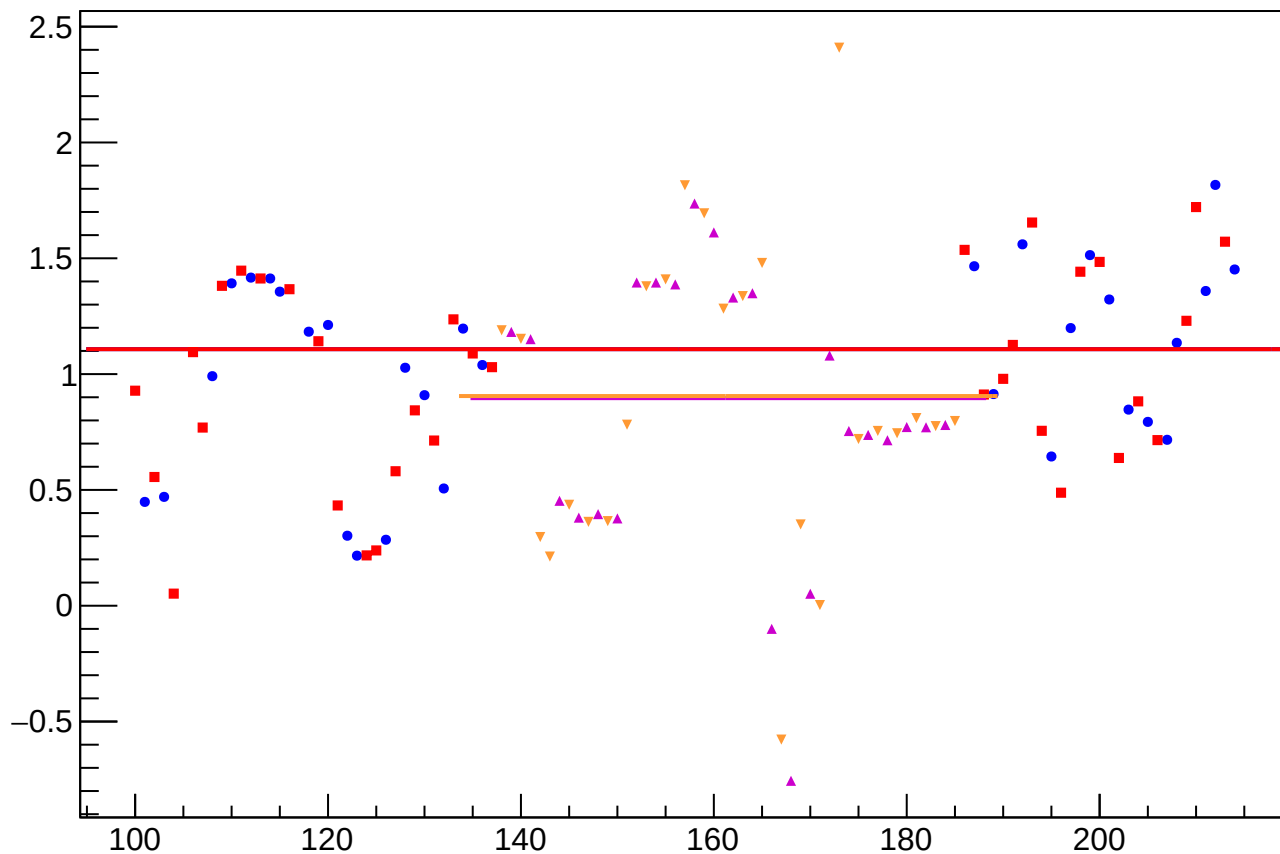
Right: 0.044 $\pm$ 0.000 χ^2 /NDF: 9554690.5/64

In: 0.038 $\pm$ 0.000 χ^2 /NDF:6478811.4/53

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:5741414.4/58

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 12220227.4/112

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.108+/-0.000

χ^2/NDF : 40088789941.1/30

Left: 0.901+/-0.000

χ^2/NDF : 150868618084.6/47

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

Right: 1.108+/-0.000

χ^2/NDF : 83736263495.8/64

Right Out: 1.108+/-0.000

χ^2/NDF : 43647471236.9/33

In: 1.019+/-0.000

χ^2/NDF : 112003653080.5/53

Out: 1.012+/-0.000

χ^2/NDF : 132633309111.7/58

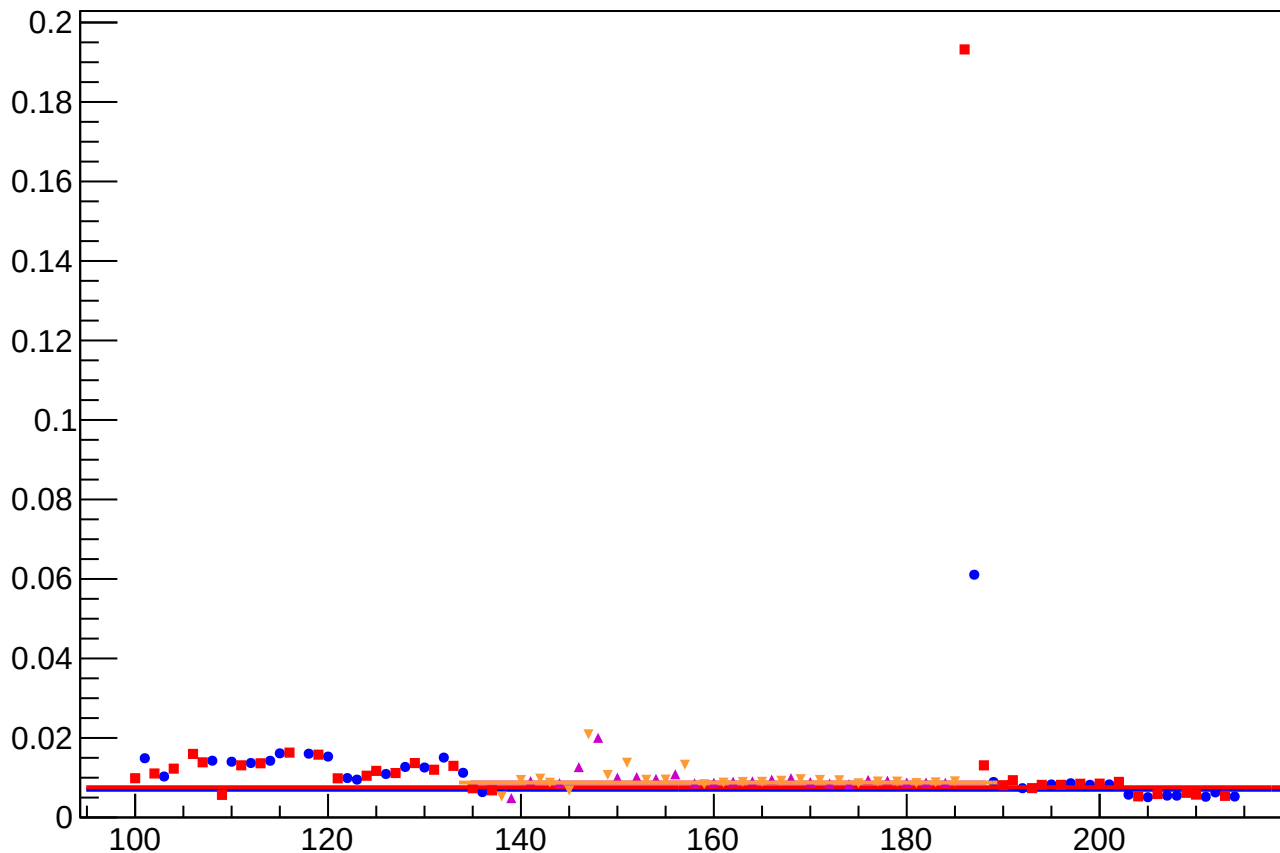
Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 1.016+/-0.000

χ^2/NDF : 244649066948.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3625793.3/30

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3680080.7/33

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

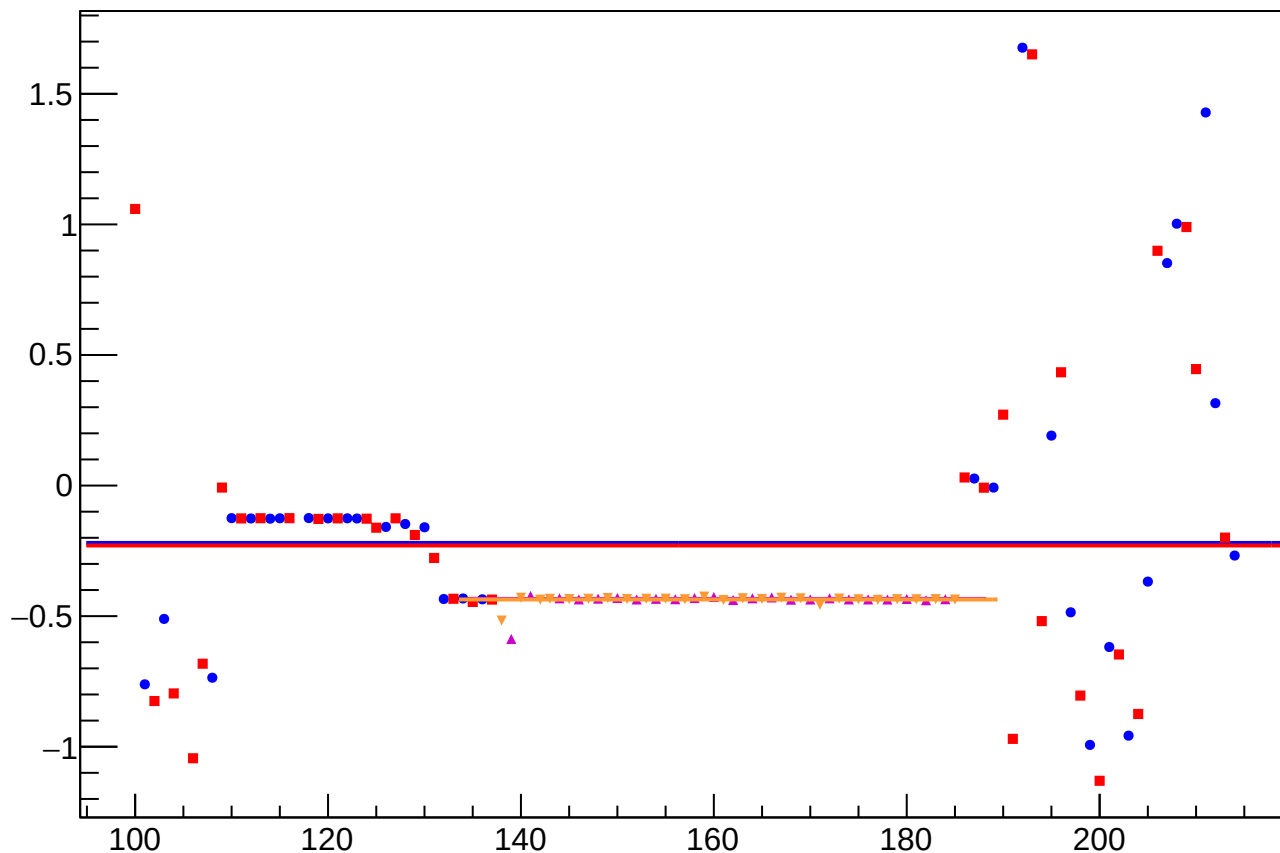
Right: 0.007+/-0.000 χ^2/NDF : 7410402.6/64

In: 0.008+/-0.000 χ^2/NDF :6007955.0/53

Out: 0.008+/-0.000 χ^2/NDF :5698049.9/58

All: 0.008+/-0.000 χ^2/NDF : 11794837.2/112

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.220+/-0.000 χ^2/NDF : 4755113035.2/30

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.229+/-0.000 χ^2/NDF : 3417363082.8/33

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

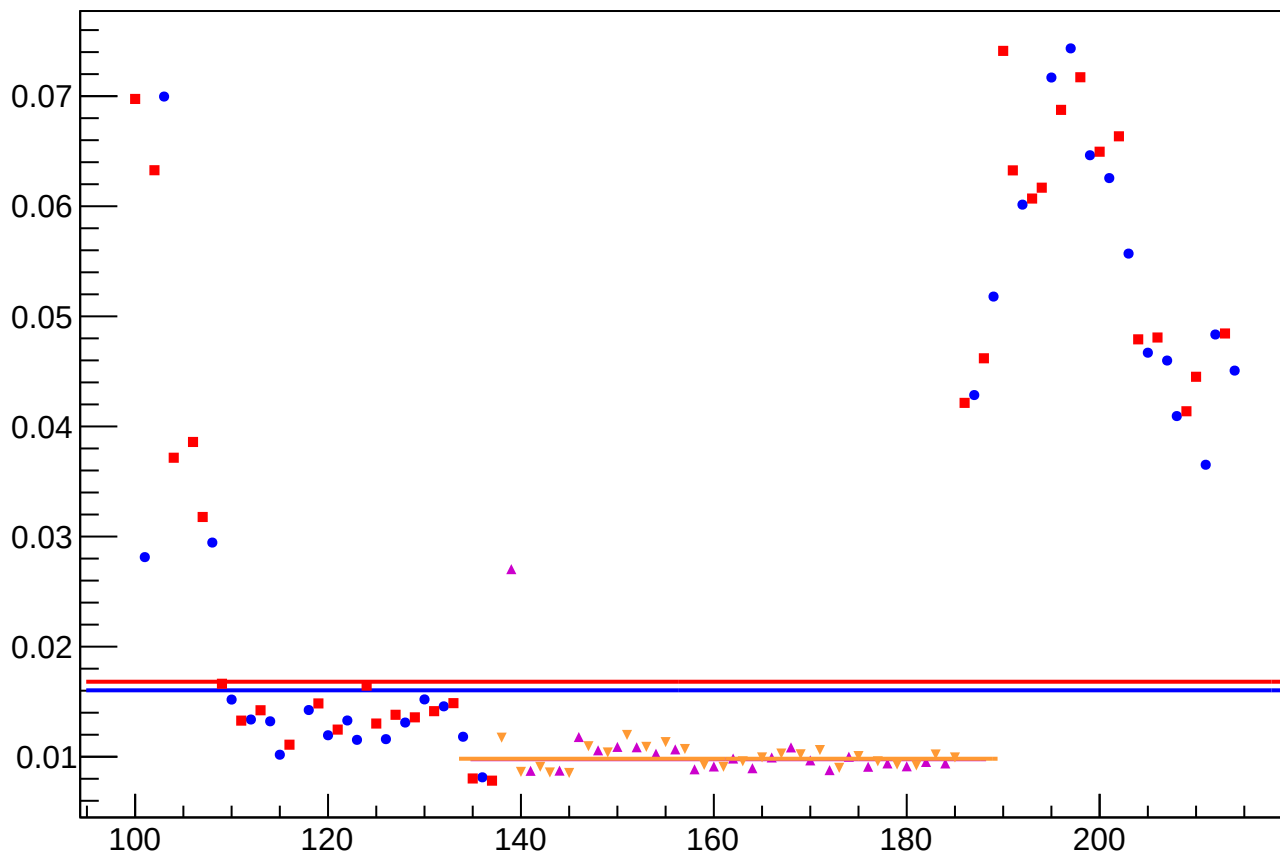
Right: -0.224+/-0.000 χ^2/NDF : 8174088049.1/64

In: -0.393+/-0.000 χ^2/NDF : 6106840918.1/53

Out: -0.401+/-0.000 χ^2/NDF : 4626006204.3/58

All: -0.397+/-0.000 χ^2/NDF : 10738411347.8/110

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 11971688.7/30

Left Out: 0.010+/-0.000 χ^2/NDF :269242.6/24

Right Out: 0.017+/-0.000 χ^2/NDF : 12266222.1/33

Left In: 0.010+/-0.000 χ^2/NDF :747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

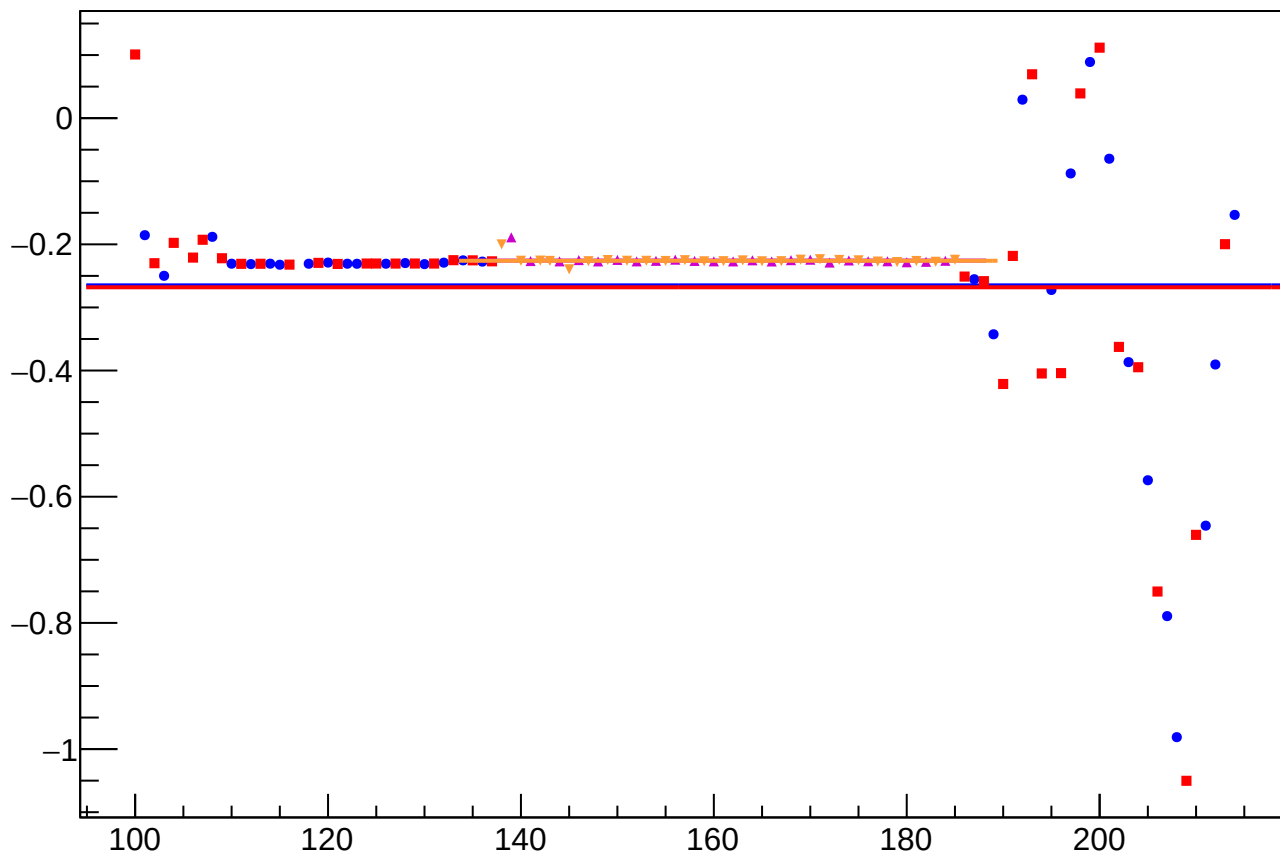
Right: 0.016+/-0.000 χ^2/NDF : 24258911.9/64

In: 0.011+/-0.000 χ^2/NDF :14982876.7/53

Out: 0.011+/-0.000 χ^2/NDF :15233984.6/58

All: 0.011+/-0.000 χ^2/NDF : 30217308.9/112

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.265+/-0.000 χ^2/NDF : 24972676531.2/30

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.268+/-0.000 χ^2/NDF : 25233911908.2/33

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

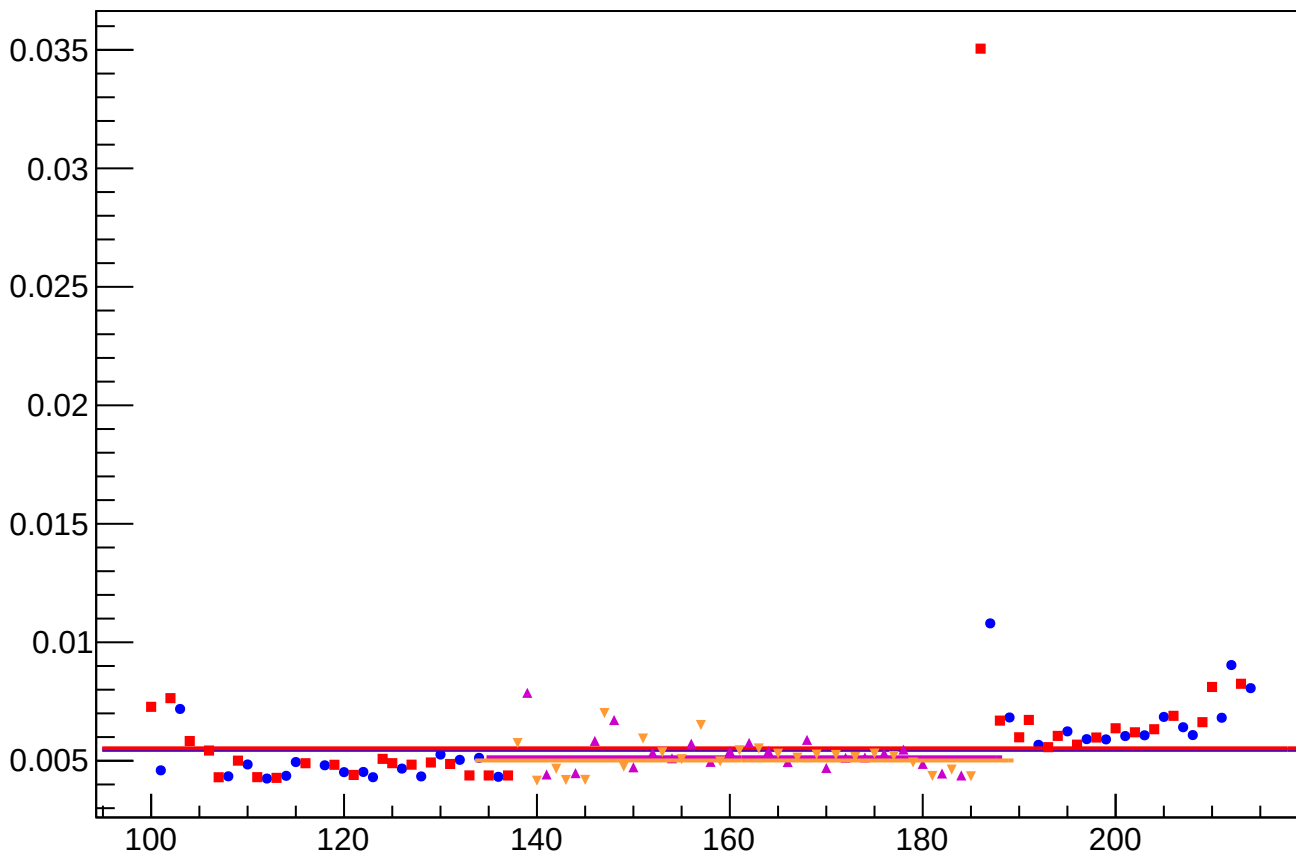
Right: -0.267+/-0.000 χ^2/NDF : 50208987849.7/64

In: -0.243+/-0.000 χ^2/NDF : 25414024795.3/53

Out: -0.244+/-0.000 χ^2/NDF : 25768738231.2/58

All: -0.244+/-0.000 χ^2/NDF : 51182897897.3/112

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1232696.2/30

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1607744.0/33

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

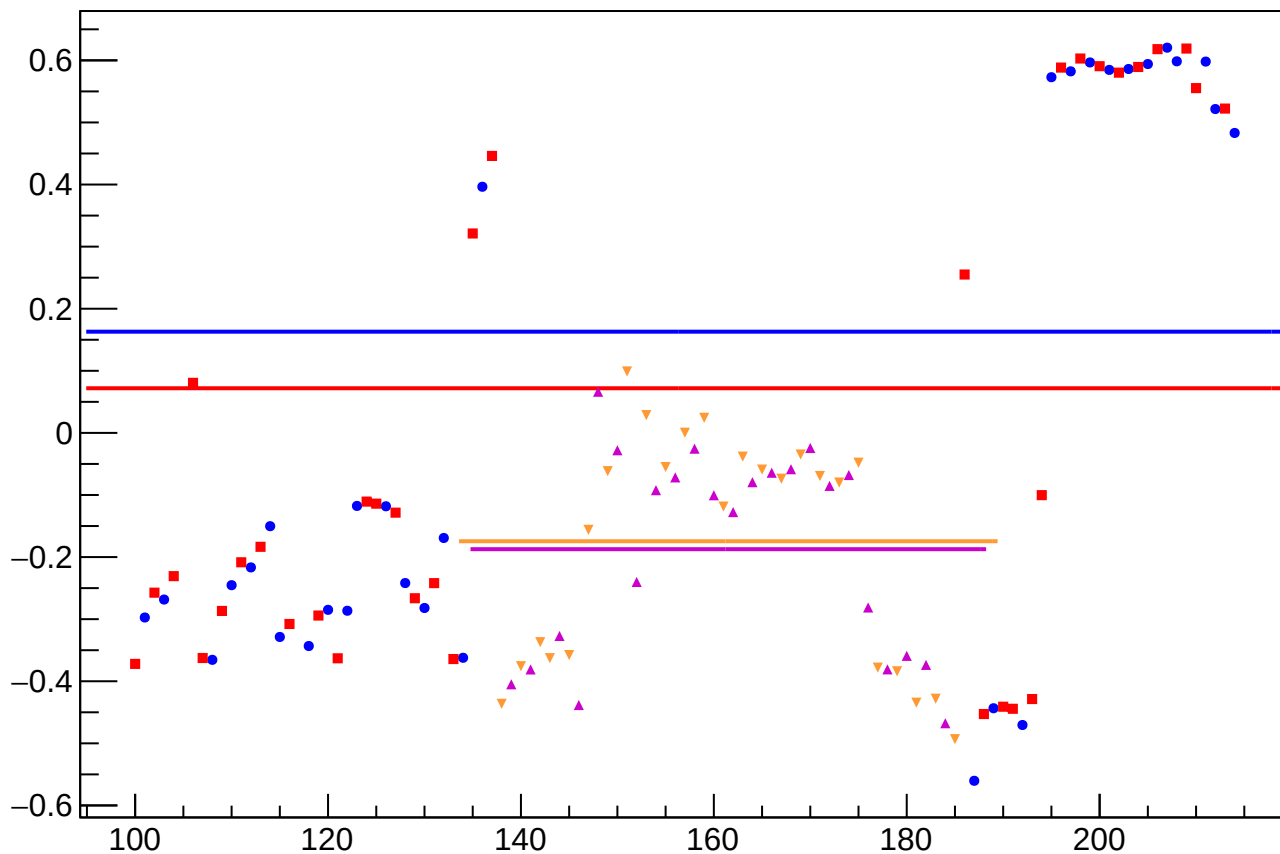
Right: 0.005+/-0.000 χ^2/NDF : 2842274.9/64

In: 0.005+/-0.000 χ^2/NDF : 1781550.0/53

Out: 0.005+/-0.000 χ^2/NDF : 2289917.7/58

All: 0.005+/-0.000 χ^2/NDF : 4075464.8/112

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.163+/-0.000

χ^2/NDF : 67449623080.5/30

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.116+/-0.000

χ^2/NDF : 135136880892.3/64

Right Out: 0.072+/-0.000

χ^2/NDF : 66224140462.2/33

In: -0.052+/-0.000

χ^2/NDF : 106195980352.9/53

Out: -0.080+/-0.000

χ^2/NDF : 97736153035.2/58

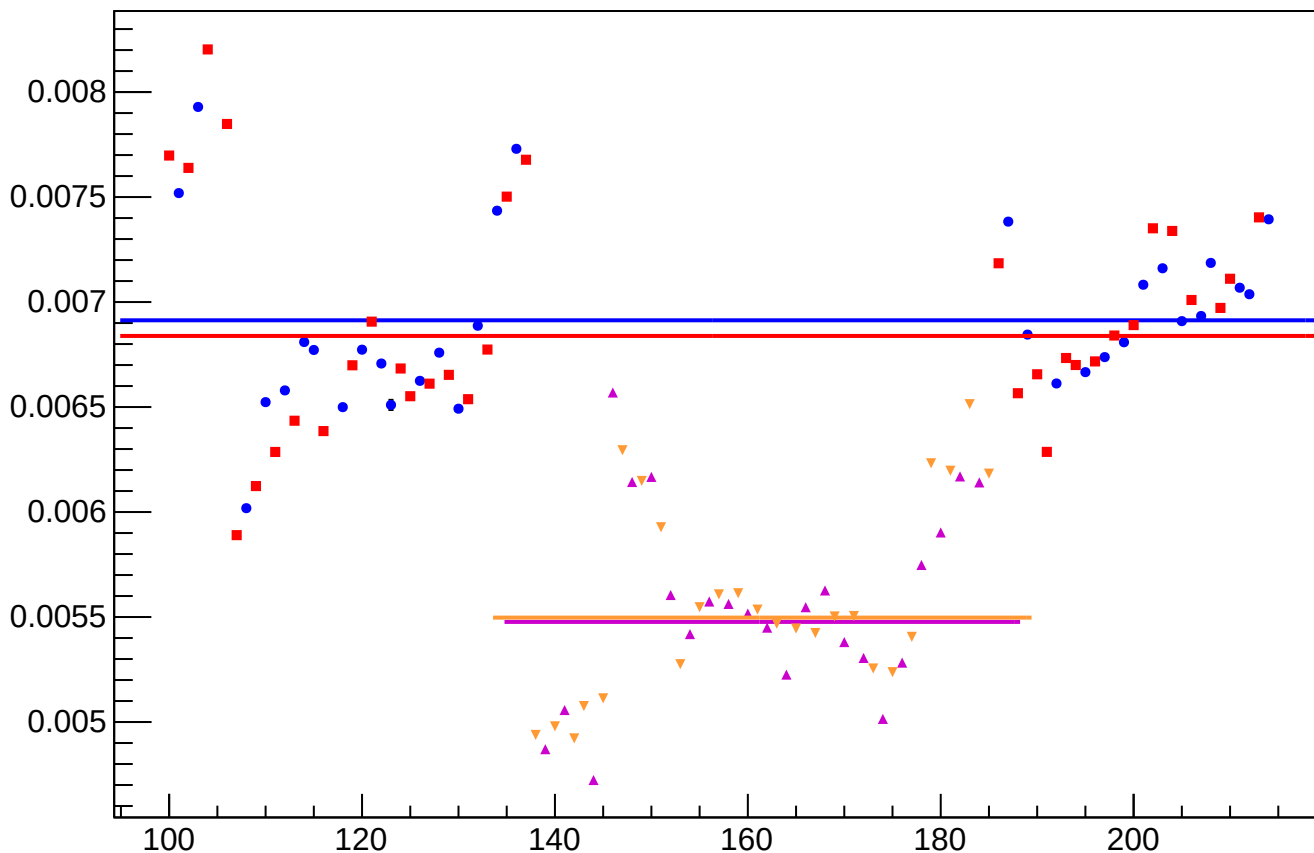
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.066+/-0.000

χ^2/NDF : 204284430812.7

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 99834.5/30

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 142070.0/33

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

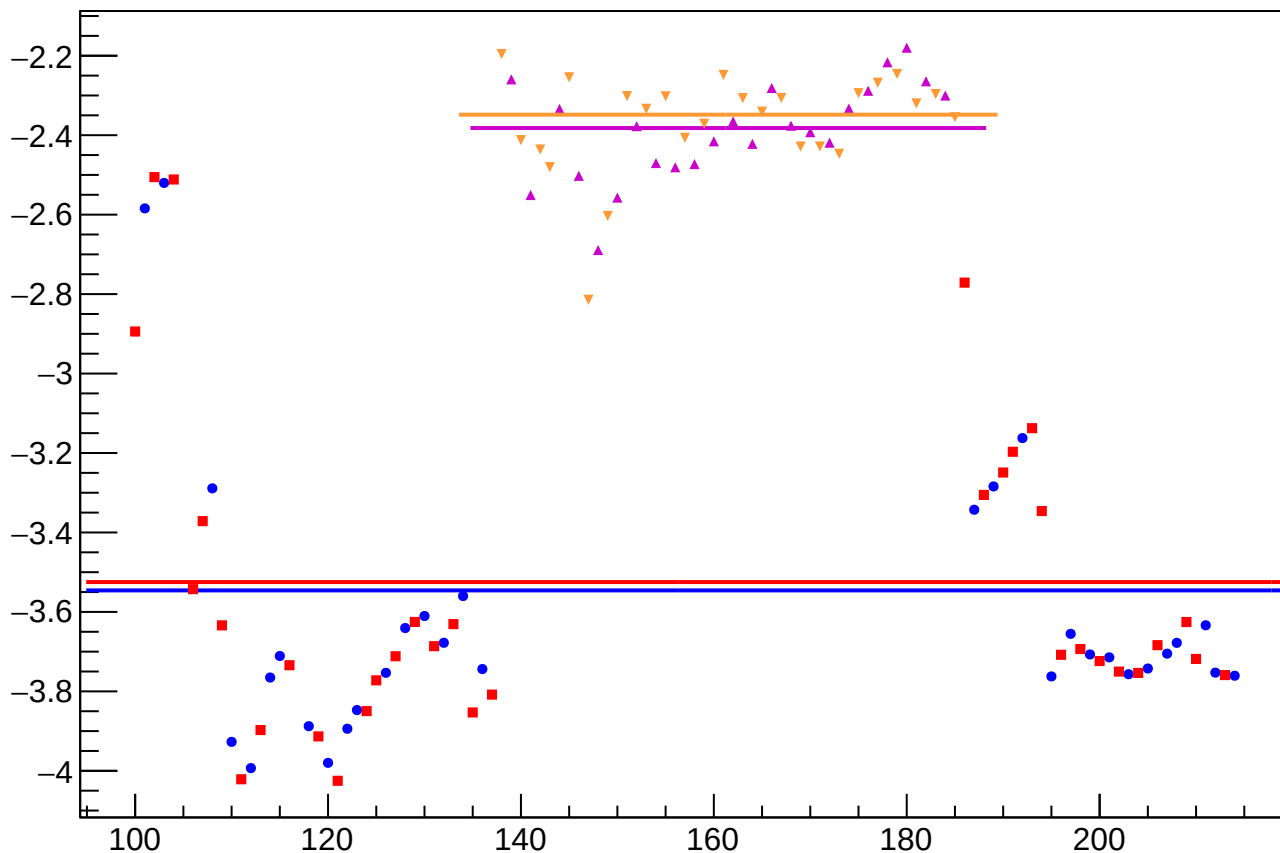
Right: 0.007+/-0.000 χ^2/NDF : 243858.0/64

In: 0.006+/-0.000 χ^2/NDF :1173893.8/53

Out: 0.006+/-0.000 χ^2/NDF :1140243.0/58

All: 0.006+/-0.000 χ^2/NDF : 2314447.2/112

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.546+/-0.000 χ^2/NDF : 30499870529.3/30

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.525+/-0.000 χ^2/NDF : 31318054954.9/33

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

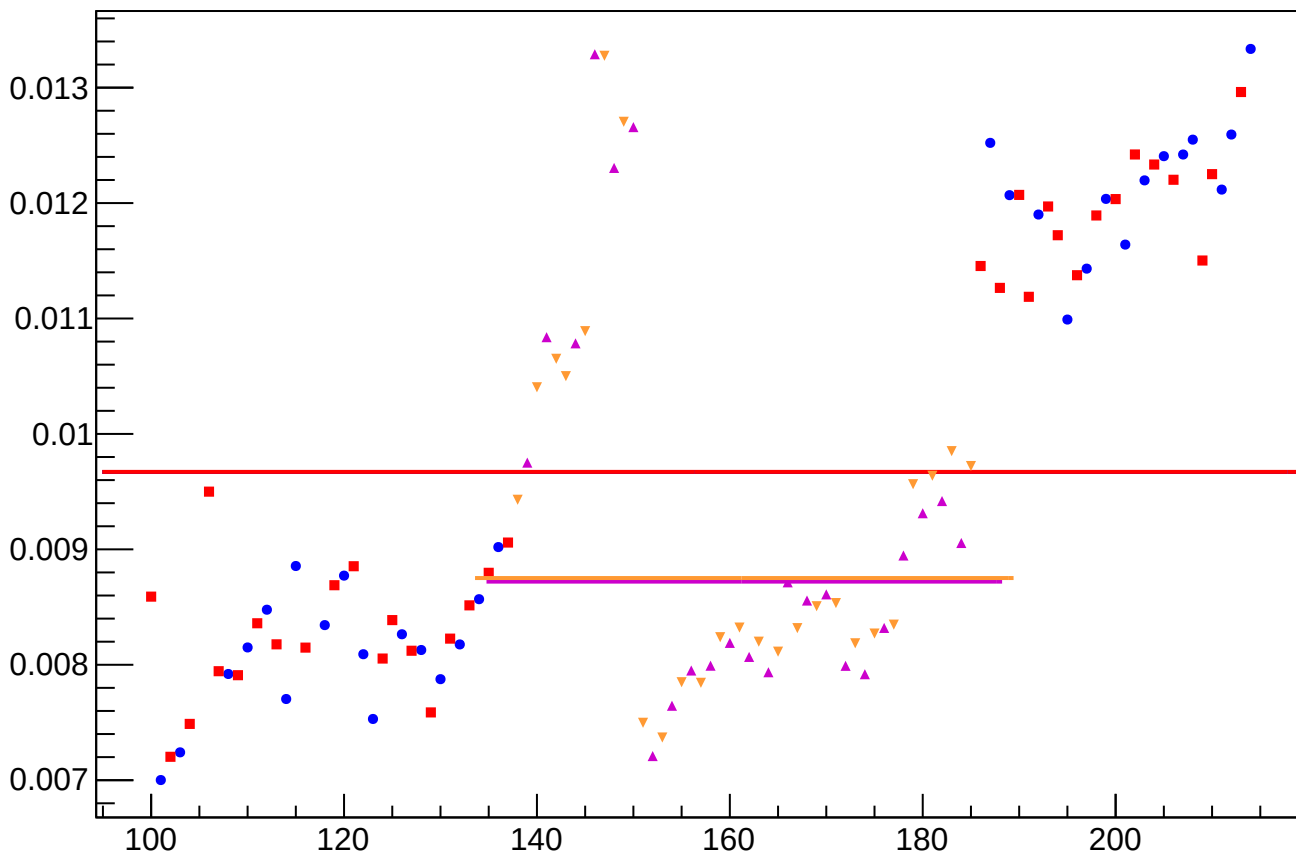
Right: -3.535+/-0.000 χ^2/NDF : 61855458052.9/64

In: -2.894+/-0.000 χ^2/NDF : 159967843232.0/53

Out: -2.860+/-0.000 χ^2/NDF : 168796876262.4/58

All: -2.876+/-0.000 χ^2/NDF : 328993023436.7

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1421832.5/30

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:663672.8/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1274912.0/33

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:747867.0/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 1411749.0/47

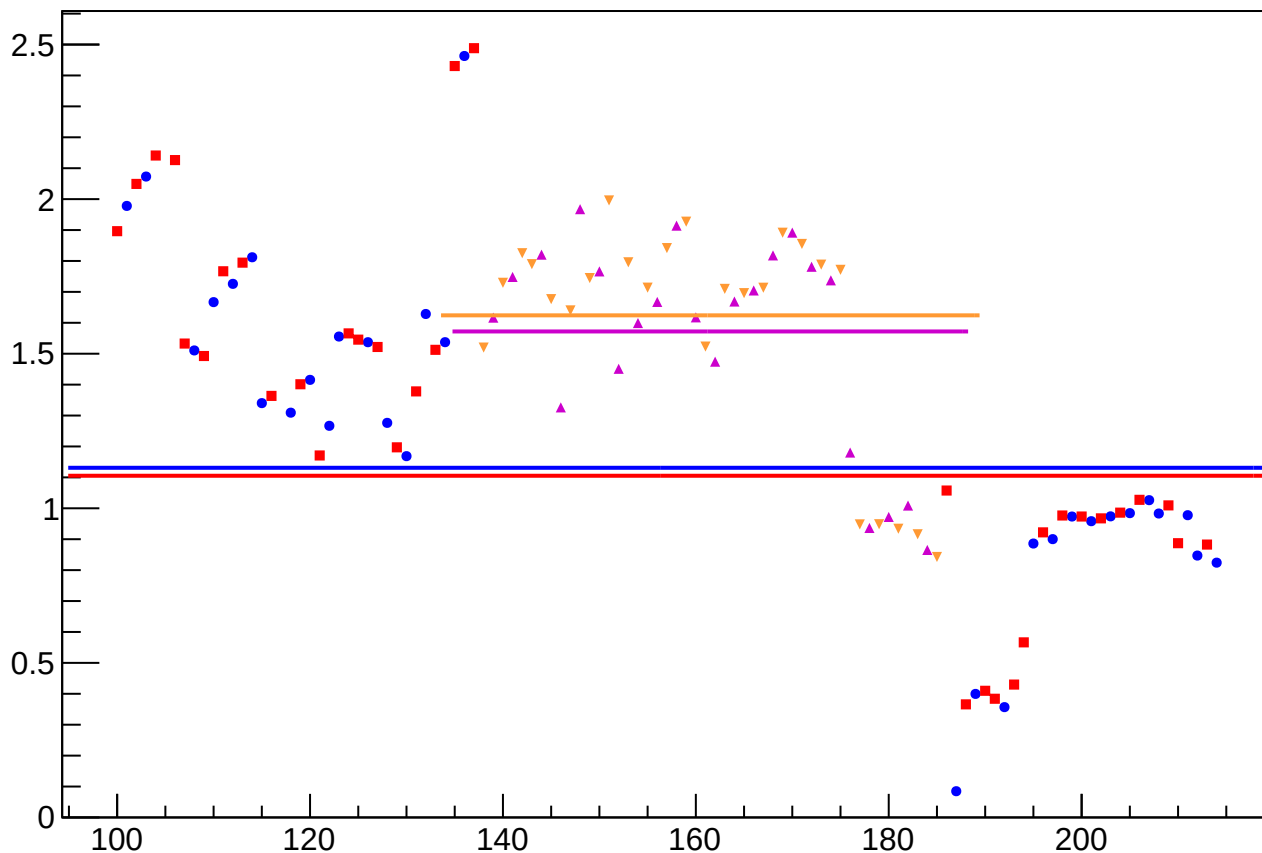
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2696744.7/64

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2338987.7/53

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2103981.5/58

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4443034.1/112

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.131+/-0.000 χ^2/NDF : 28595250629.2/30

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.105+/-0.000 χ^2/NDF : 33157275731.4/33

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

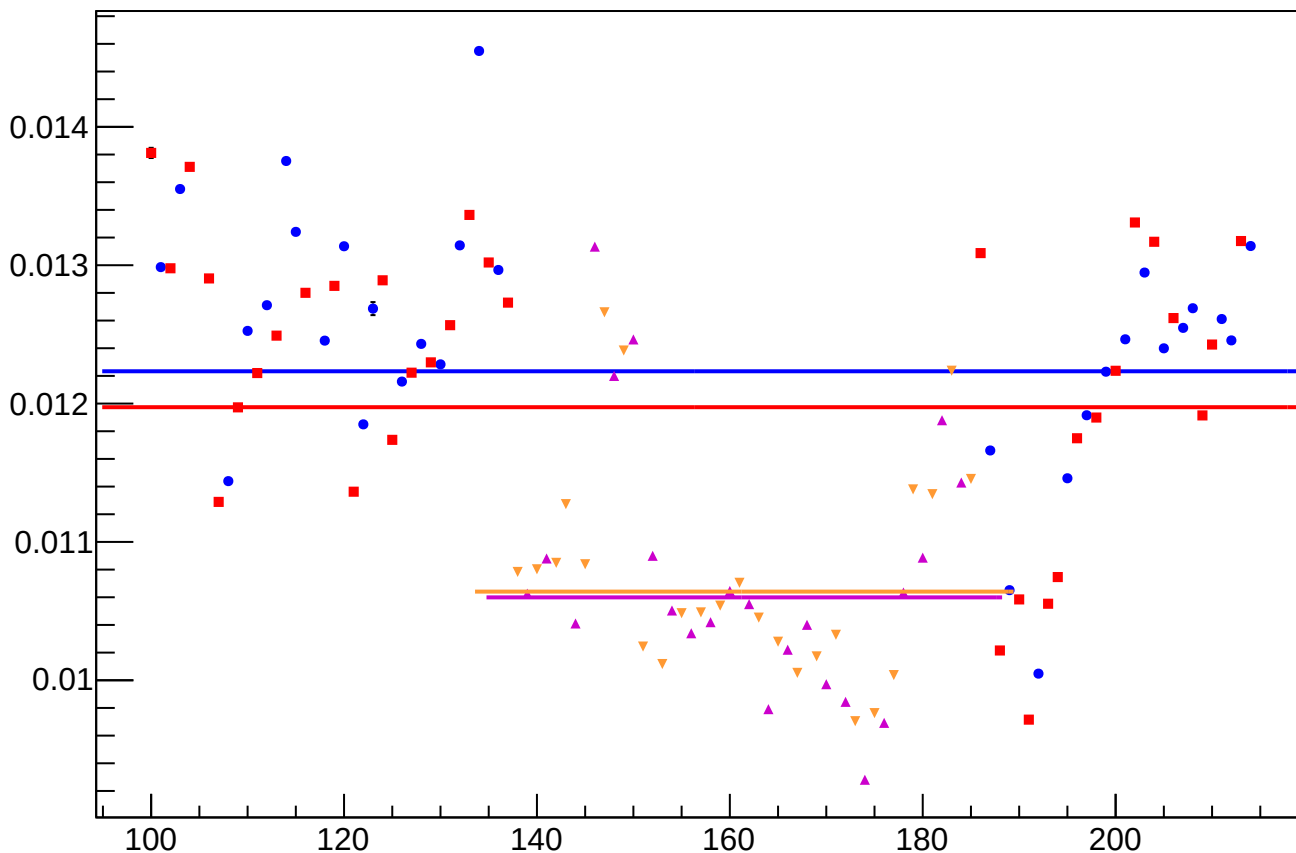
Right: 1.118+/-0.000 χ^2/NDF : 61789990237.2/64

In: 1.385+/-0.000 χ^2/NDF : 55027242435.8/53

Out: 1.402+/-0.000 χ^2/NDF : 67765248441.9/58

All: 1.394+/-0.000 χ^2/NDF : 122832333048.8

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 178978.7/30

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 245510.7/33

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

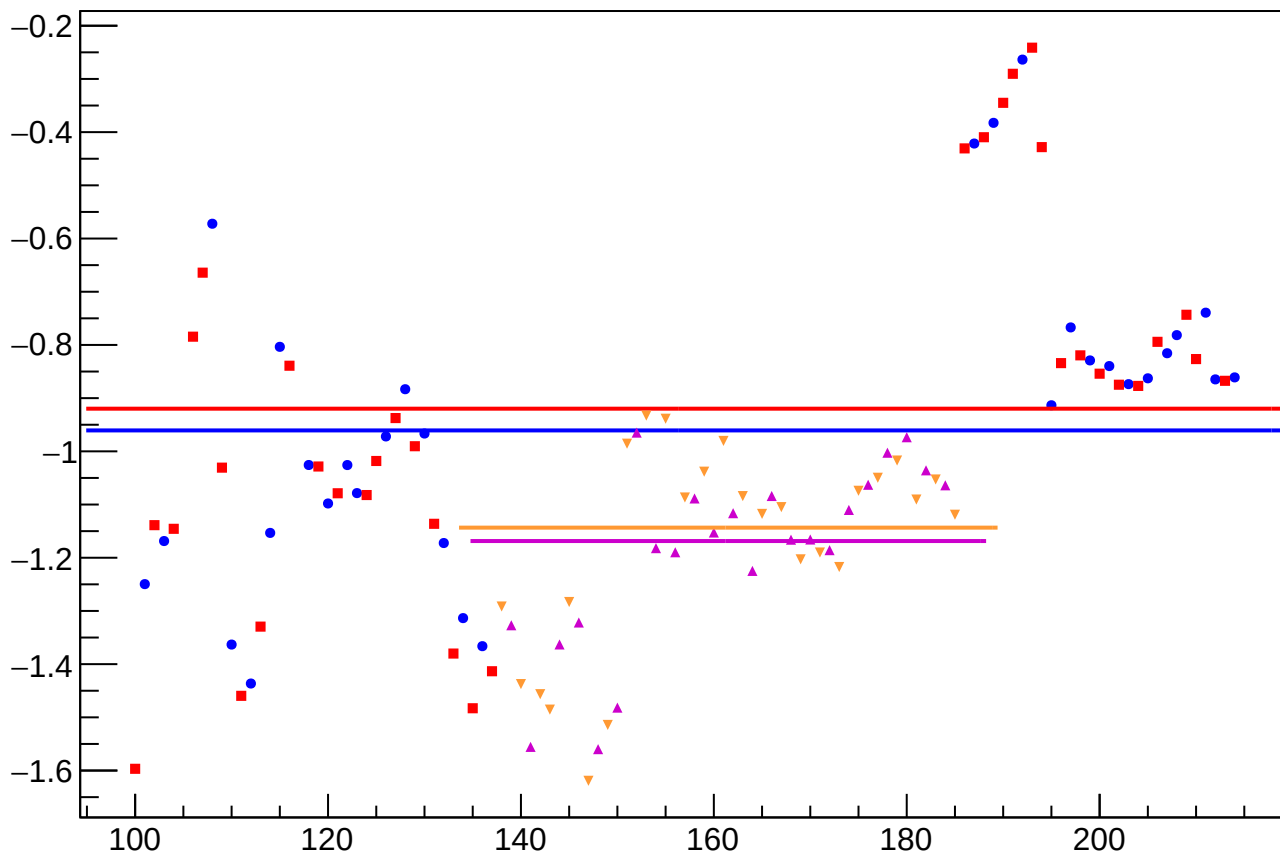
Right: 0.012+/-0.000 χ^2/NDF : 432094.3/64

In: 0.011+/-0.000 χ^2/NDF :718731.3/53

Out: 0.011+/-0.000 χ^2/NDF :642550.8/58

All: 0.011+/-0.000 χ^2/NDF : 1363059.8/112

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.961±/0.000 χ^2/NDF : 11469692074.2/30

Left Out: -1.143±/0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.920±/0.000 χ^2/NDF : 16091002804.6/33

Left In: -1.169±/0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156±/0.000 χ^2/NDF : 14424995220.9/47

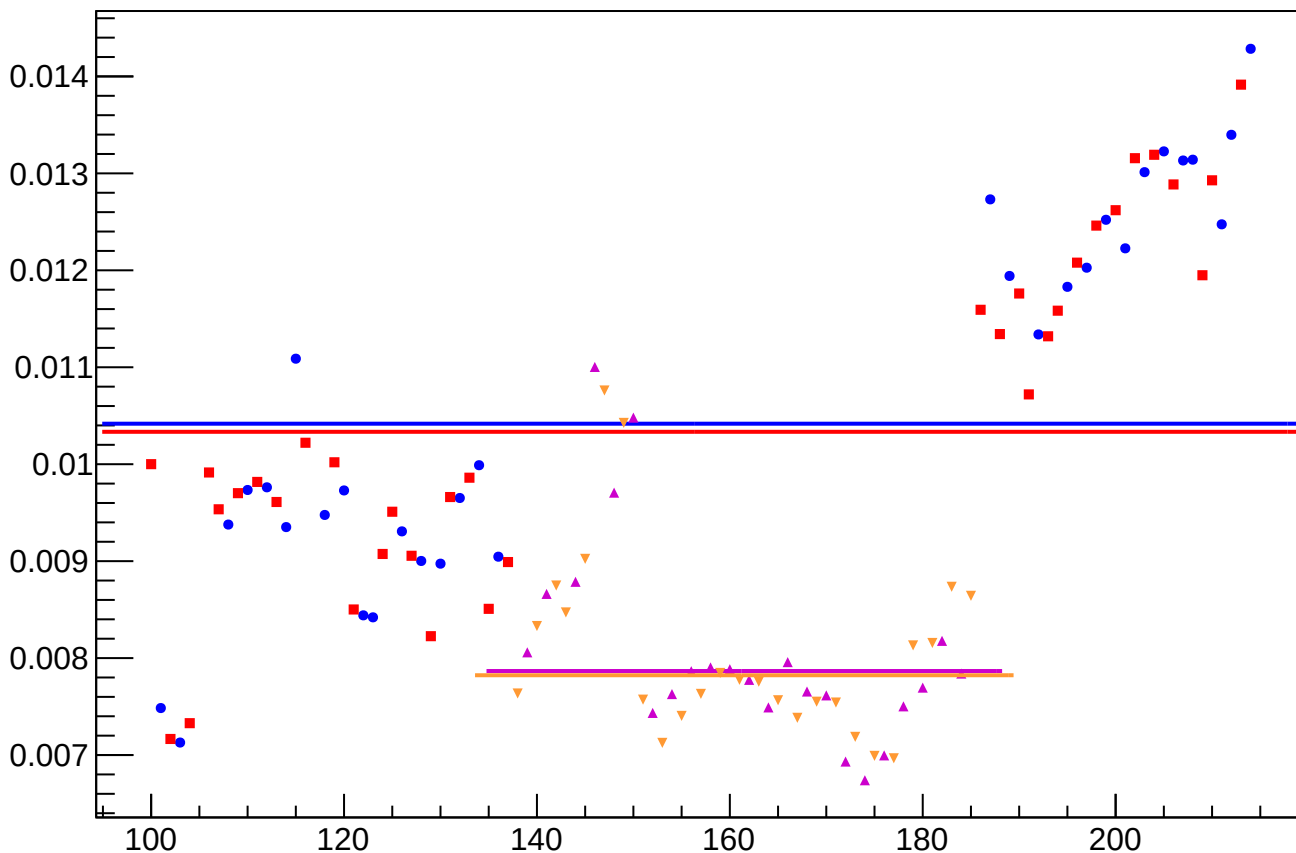
Right: -0.940±/0.000 χ^2/NDF : 27683603499.7/64

In: -1.095±/0.000 χ^2/NDF : 21847956868.8/53

Out: -1.065±/0.000 χ^2/NDF : 28965096287.5/58

All: -1.080±/0.000 χ^2/NDF : 50998080632.6/109

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1223368.0/30

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1100601.8/33

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

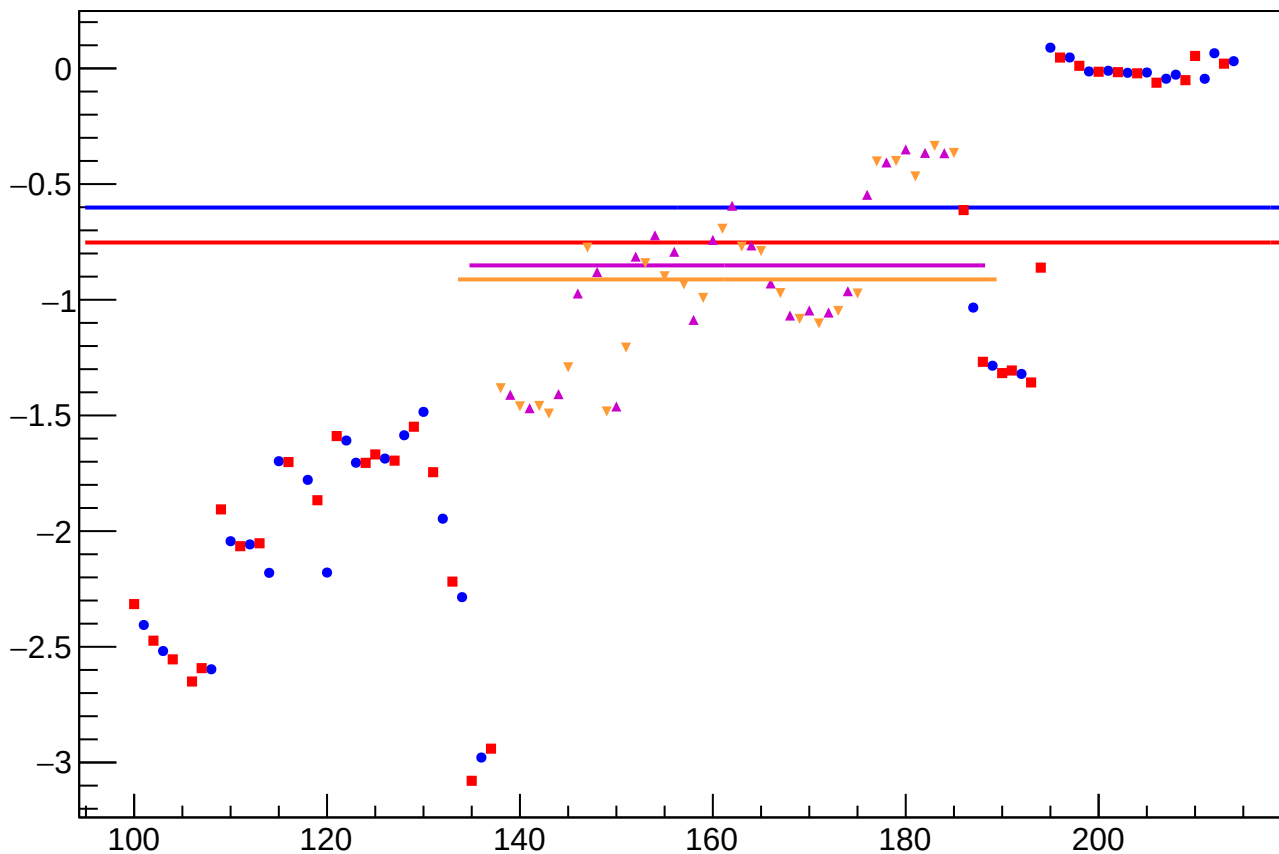
Right: 0.010+/-0.000 χ^2/NDF : 2324998.0/64

In: 0.009+/-0.000 χ^2/NDF : 2812215.1/53

Out: 0.009+/-0.000 χ^2/NDF : 2672636.3/58

All: 0.009+/-0.000 χ^2/NDF : 5486840.7/112

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.601 ± 0.000 $\chi^2/\text{NDF}: 397696911805.0/30$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -0.753 ± 0.000 $\chi^2/\text{NDF}: 420187253668.8/33$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

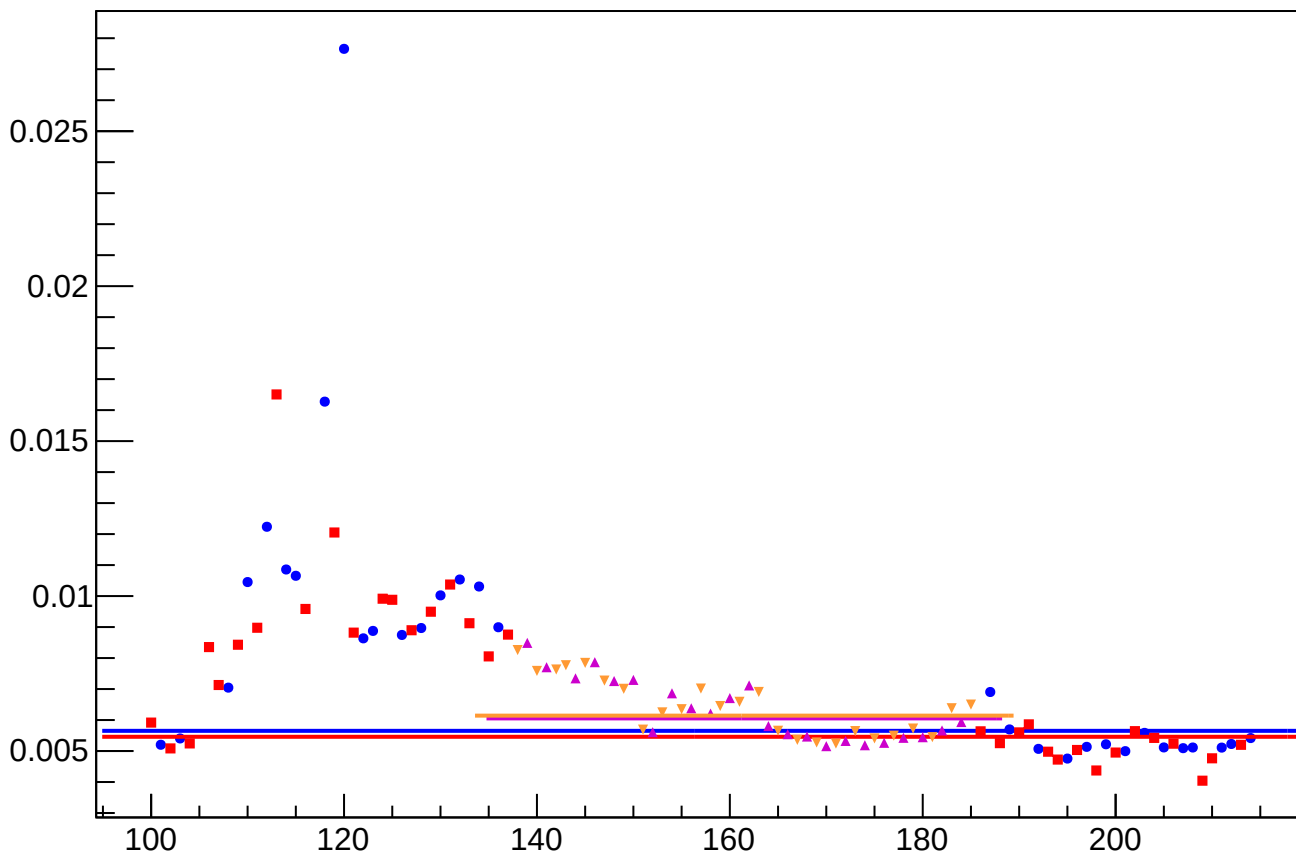
Right: -0.681 ± 0.000 $\chi^2/\text{NDF}: 823128878033.7/64$

In: -0.726 ± 0.000 $\chi^2/\text{NDF}: 457756823651.6/53$

Out: -0.829 ± 0.000 $\chi^2/\text{NDF}: 475133313098.4/58$

All: -0.779 ± 0.000 $\chi^2/\text{NDF}: 937632539531.9$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2059664.6/30

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2130057.0/33

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

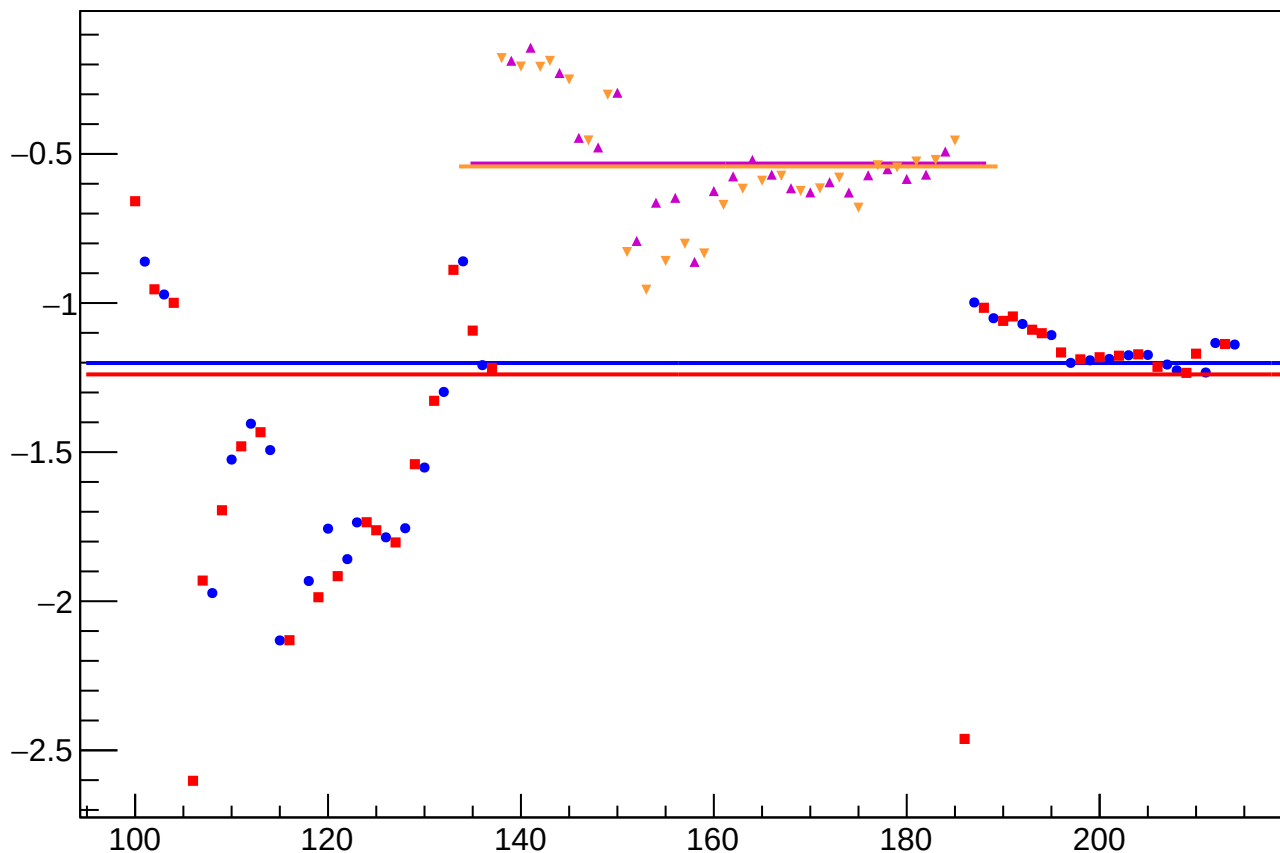
Right: 0.006+/-0.000 χ^2/NDF : 4206613.5/64

In: 0.006+/-0.000 χ^2/NDF :2827359.0/53

Out: 0.006+/-0.000 χ^2/NDF :2983984.6/58

All: 0.006+/-0.000 χ^2/NDF : 5815180.8/112

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.201+/-0.000 χ^2/NDF : 26731929603.7/30

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.239+/-0.000 χ^2/NDF : 79541584147.8/33

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

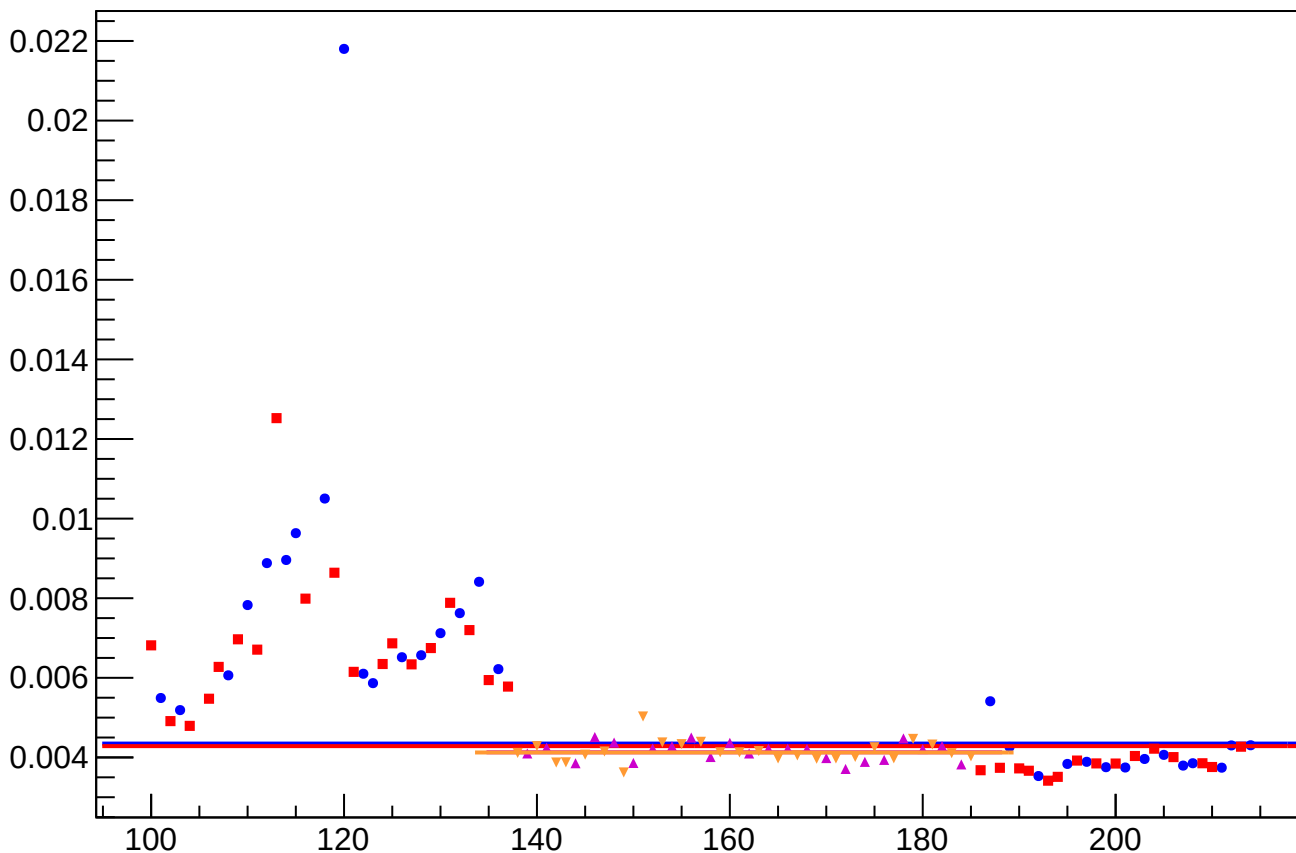
Right: -1.221+/-0.000 χ^2/NDF : 106828572899.4/64

In: -0.826+/-0.000 χ^2/NDF : 241600102081.1/53

Out: -0.850+/-0.000 χ^2/NDF : 339812604769.6/58

All: -0.838+/-0.000 χ^2/NDF : 581893462813.1

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2069804.5/30

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1889295.5/33

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

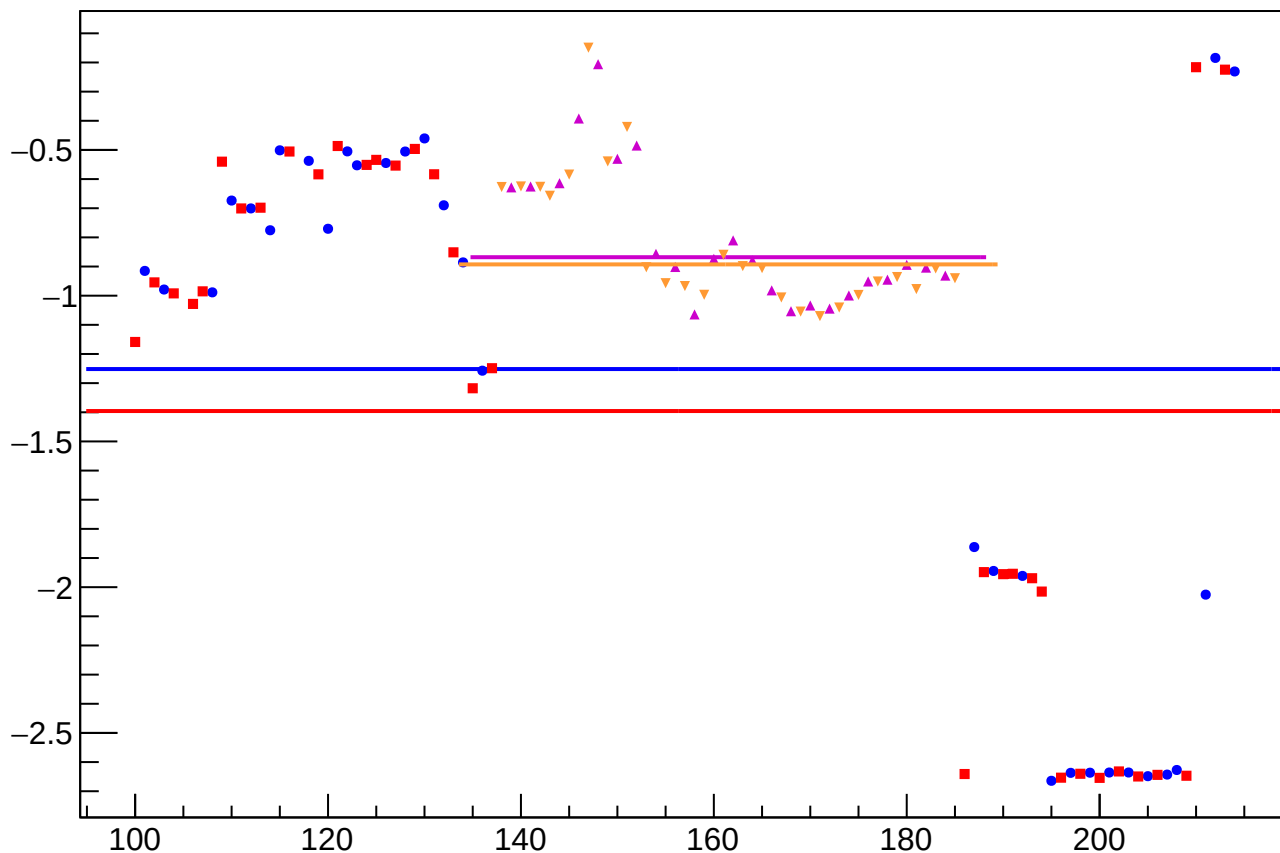
Right: 0.004+/-0.000 χ^2/NDF : 3962207.4/64

In: 0.004+/-0.000 χ^2/NDF :2202088.1/53

Out: 0.004+/-0.000 χ^2/NDF :2024590.0/58

All: 0.004+/-0.000 χ^2/NDF : 4228310.3/112

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.252+/-0.000

χ^2/NDF : 493796896760.0/30

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right: -1.333+/-0.000

χ^2/NDF : 1091665589469.1/6

Right Out: -1.396+/-0.000

χ^2/NDF : 590587816086.1/33

In: -1.006+/-0.000

χ^2/NDF : 596621859744.3/53

Out: -1.102+/-0.000

χ^2/NDF : 749796234479.0/58

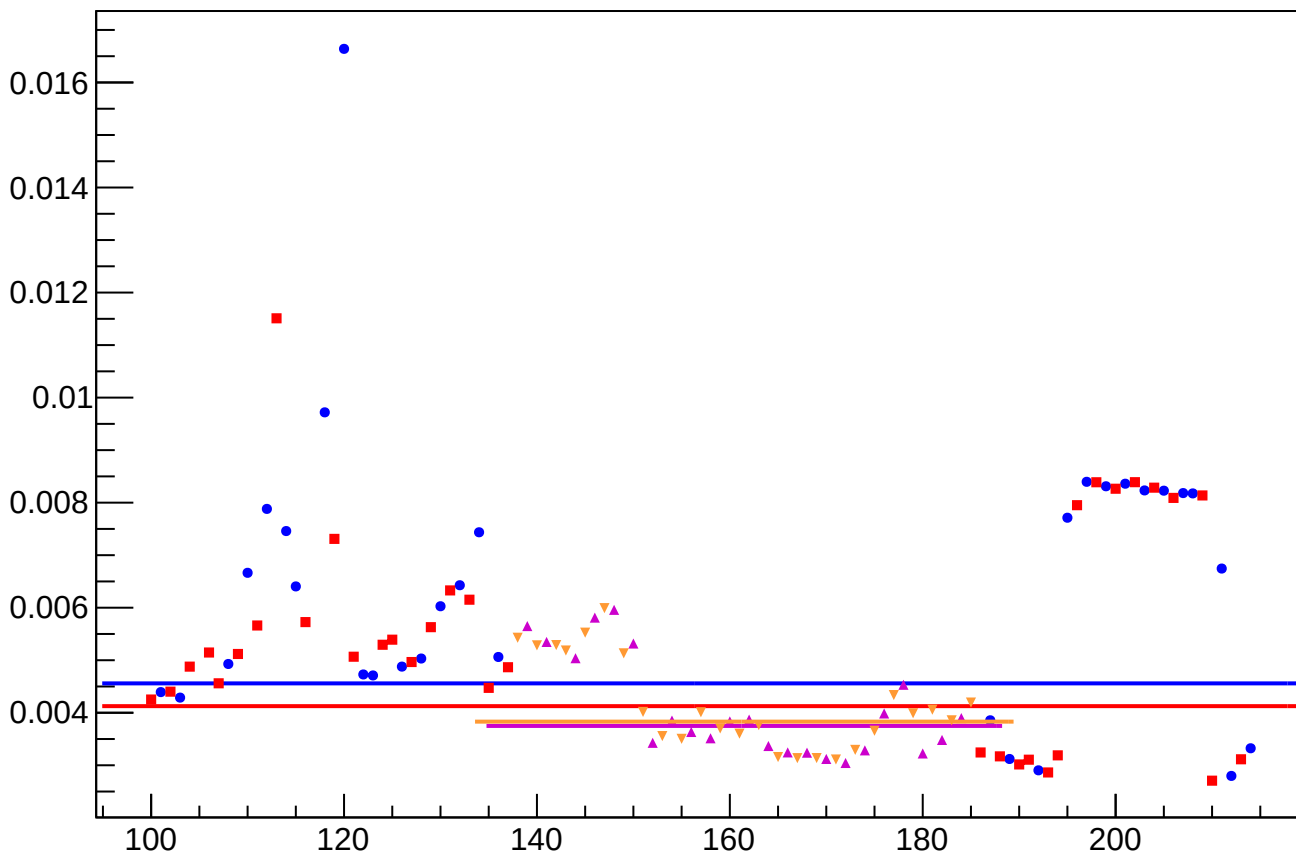
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.056+/-0.000

χ^2/NDF : 1354857968308

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 4971677.8/30

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4712771.9/33

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

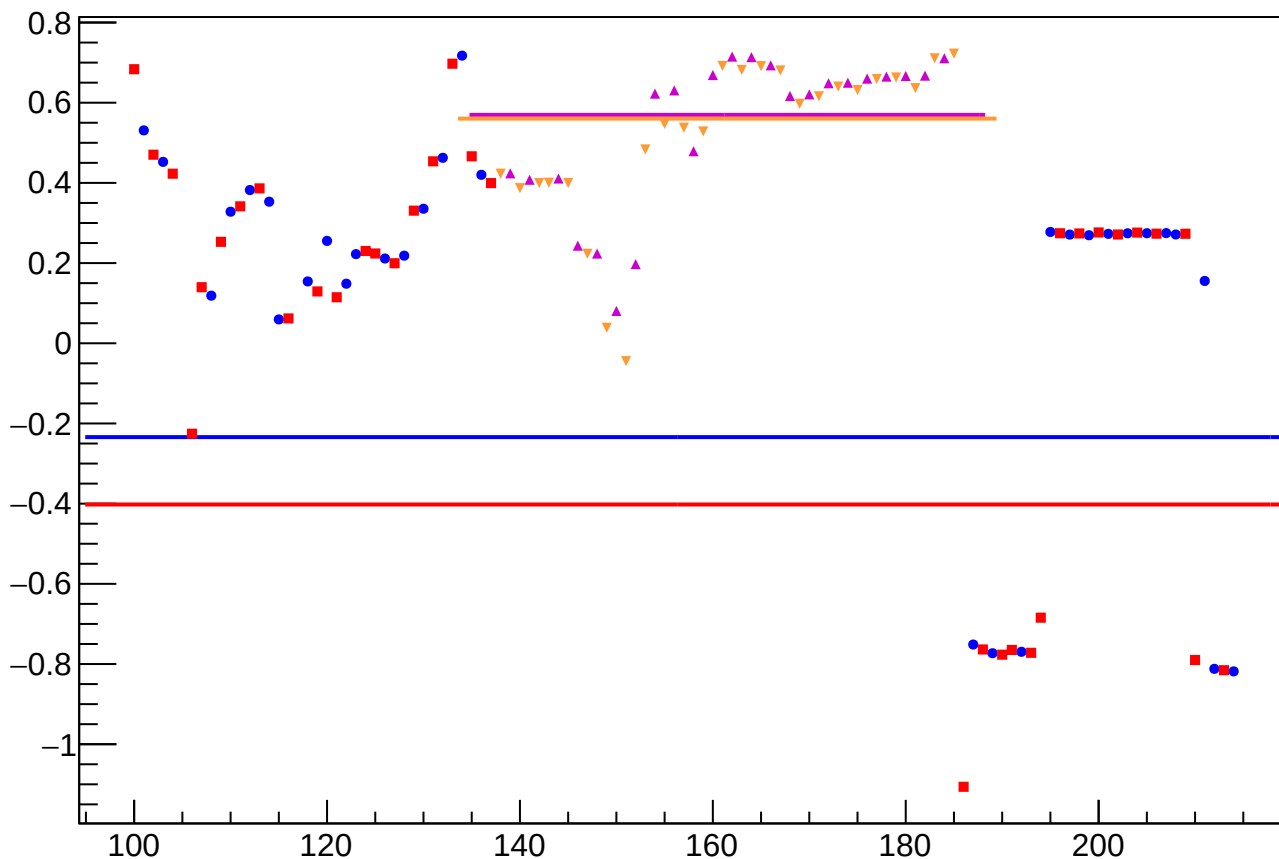
Right: 0.004+/-0.000 χ^2/NDF : 9816314.5/64

In: 0.004+/-0.000 χ^2/NDF :6785918.1/53

Out: 0.004+/-0.000 χ^2/NDF :5973937.7/58

All: 0.004+/-0.000 χ^2/NDF : 12773495.9/112

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.234+/-0.000 χ^2/NDF : 401945349561.1/30

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.402+/-0.000 χ^2/NDF : 515809360427.2/33

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

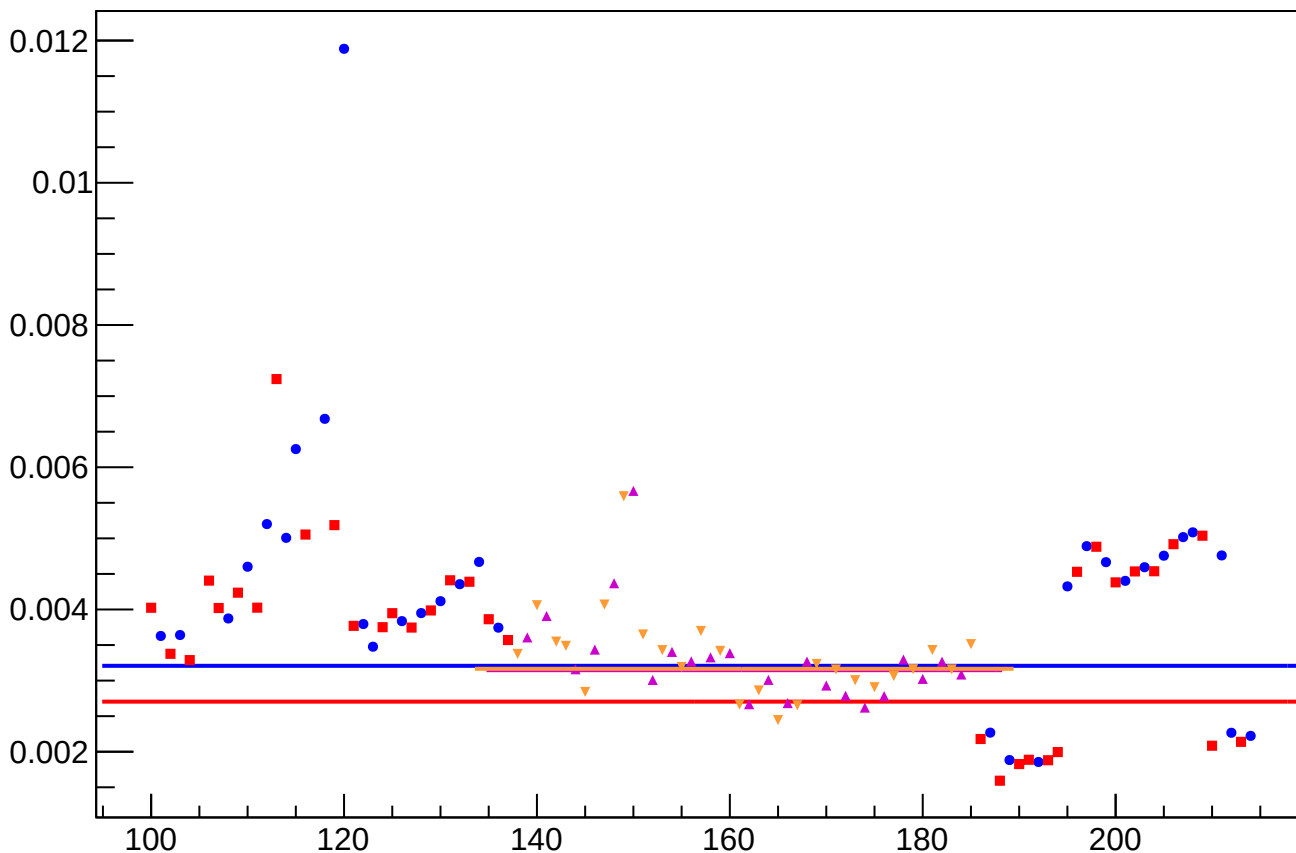
Right: -0.332+/-0.000 χ^2/NDF : 939184229832.5/64

In: 0.203+/-0.000 χ^2/NDF : 902630747986.9/53

Out: 0.052+/-0.000 χ^2/NDF : 1353376842537.3/58

All: 0.121+/-0.000 χ^2/NDF : 2291883597210.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4165048.8/30

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5024490.5/33

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

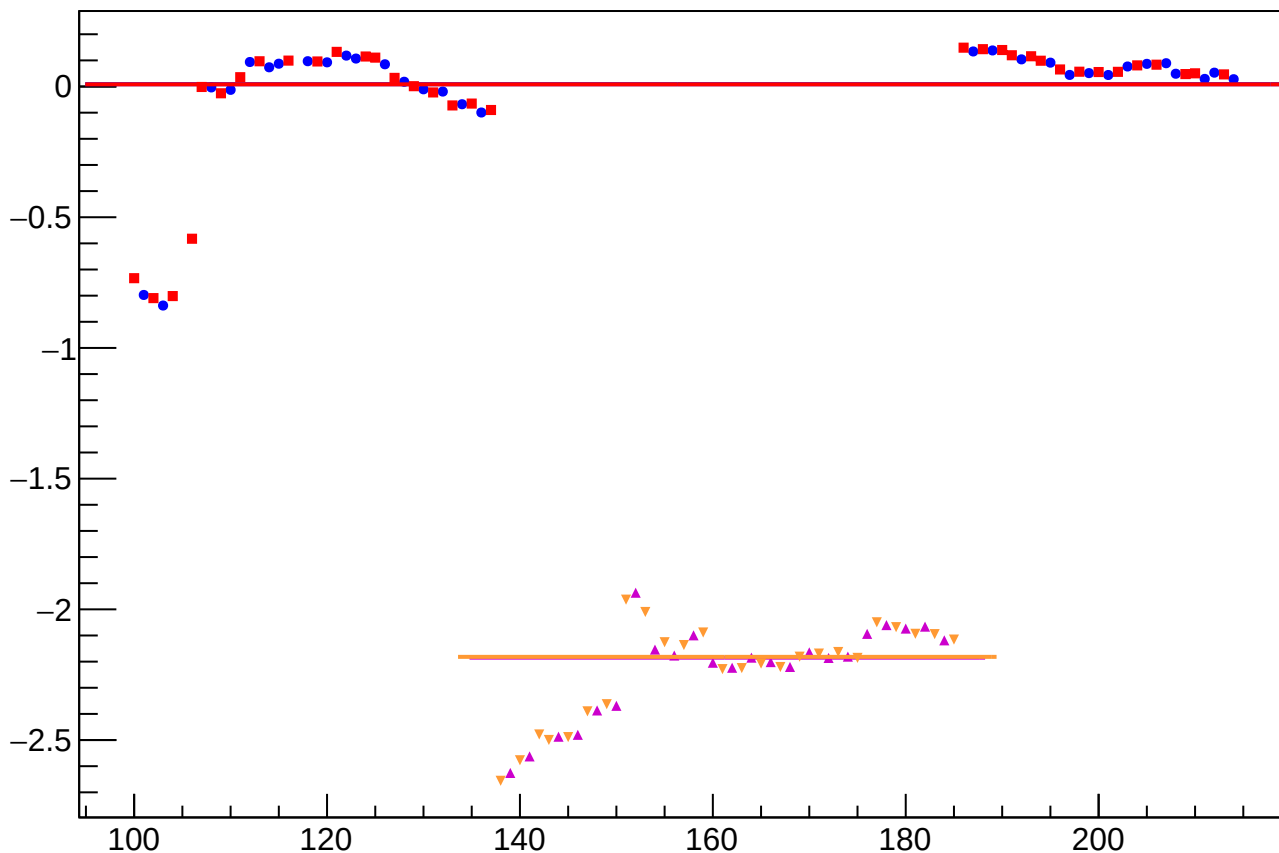
Right: 0.003+/-0.000 χ^2/NDF : 9574514.6/64

In: 0.003+/-0.000 χ^2/NDF : 4886831.2/53

Out: 0.003+/-0.000 χ^2/NDF : 6134265.9/58

All: 0.003+/-0.000 χ^2/NDF : 11219929.7/112

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 5912029434.8/30

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6983479600.3/33

Left In: -2.185 $\pm$ 0.000 χ^2 /NDF: 3372742534.3/22

Left: -2.183 $\pm$ 0.000 χ^2 /NDF: 7382310821.5/47

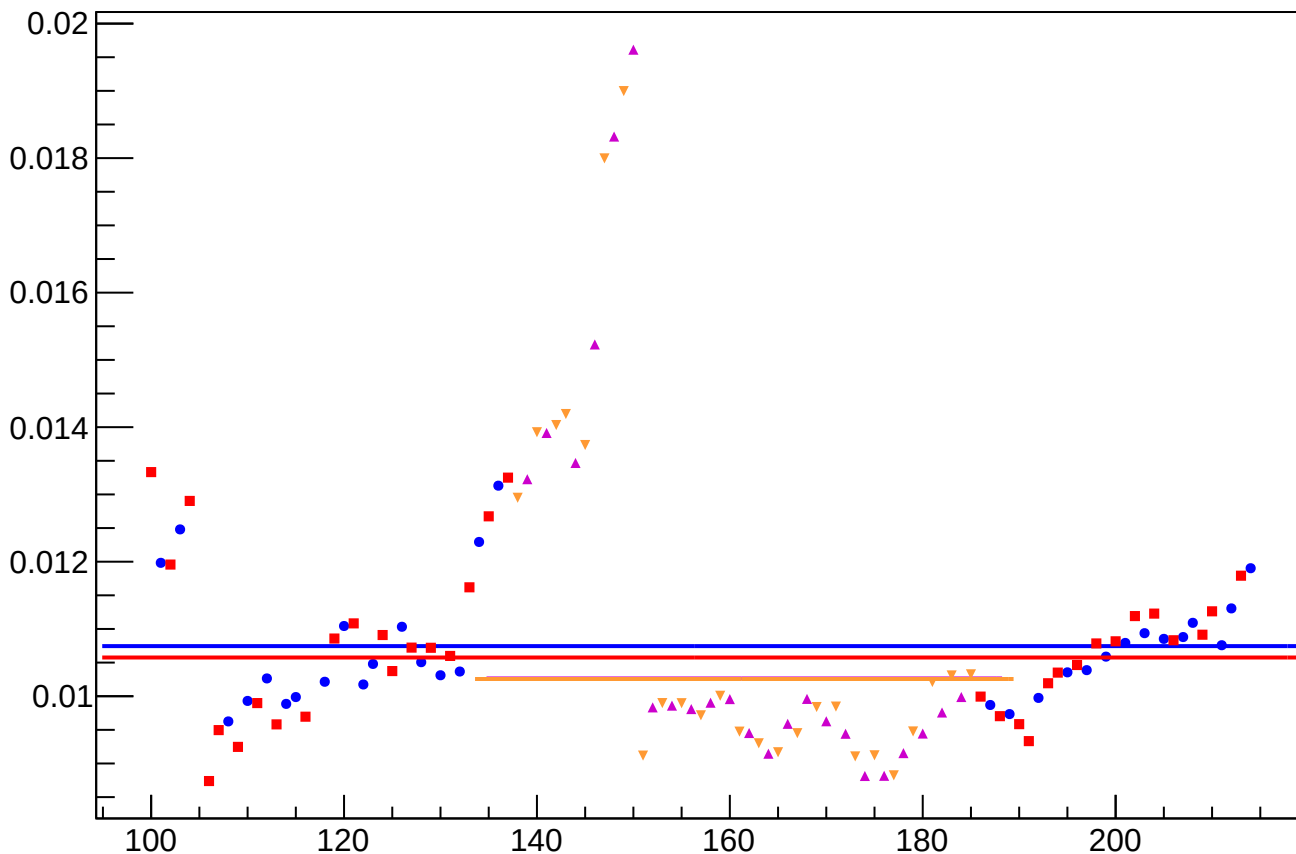
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 12895524244.2/64

In: -1.139 $\pm$ 0.000 χ^2 /NDF: 370256650129.1/53

Out: -1.139 $\pm$ 0.000 χ^2 /NDF: 394230886192.2/58

All: -1.139 $\pm$ 0.000 χ^2 /NDF: 764487584740.4

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 173228.1/30

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 247355.9/33

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

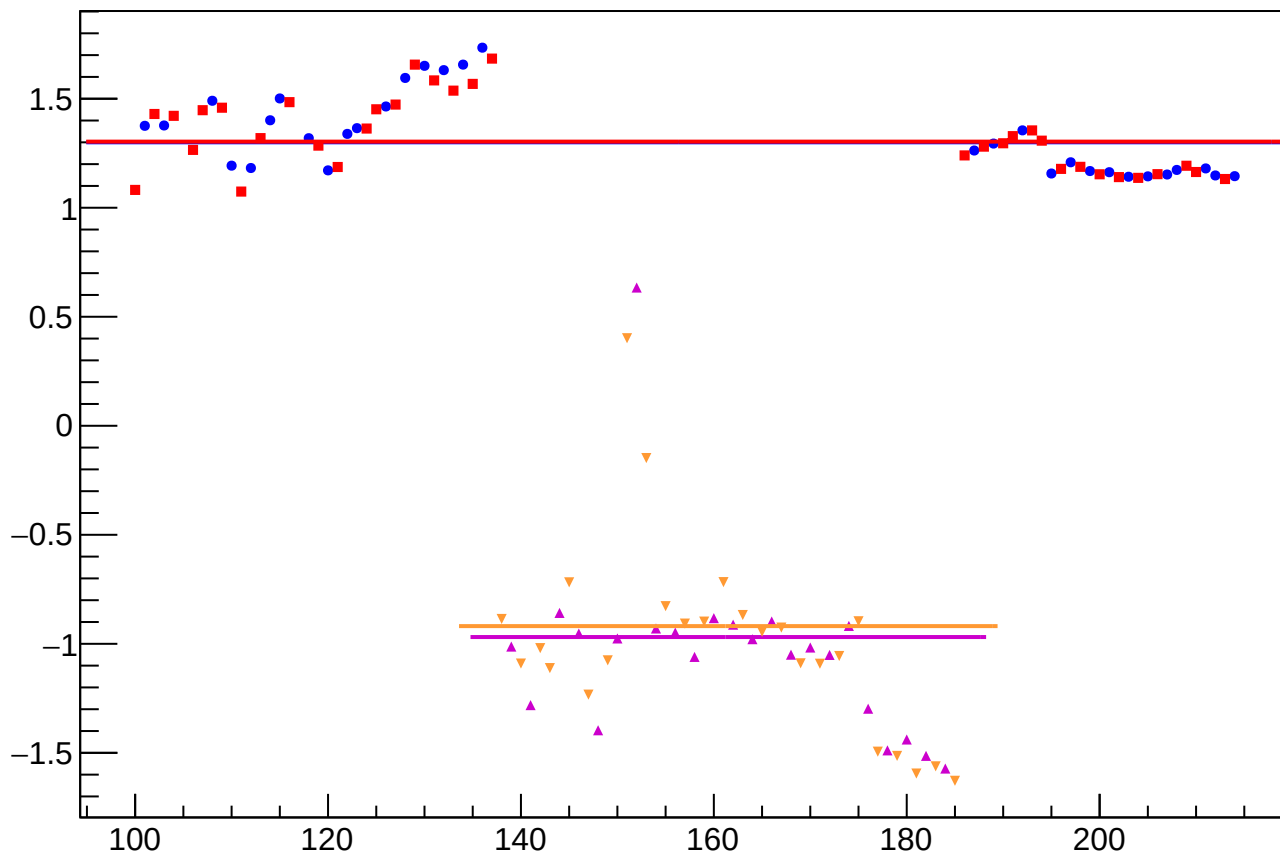
Right: 0.011+/-0.000 χ^2/NDF : 424824.5/64

In: 0.010+/-0.000 χ^2/NDF :1548141.3/53

Out: 0.010+/-0.000 χ^2/NDF :1534289.6/58

All: 0.010+/-0.000 χ^2/NDF : 3084684.3/112

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.300+/-0.000

χ^2/NDF : 8359263936.1/30

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.302+/-0.000

χ^2/NDF : 14863158907.3/64

Right Out: 1.303+/-0.000

χ^2/NDF : 6502505422.5/33

In: 0.249+/-0.000

χ^2/NDF : 725088976447.9/53

Out: 0.280+/-0.000

χ^2/NDF : 733487333208.2/58

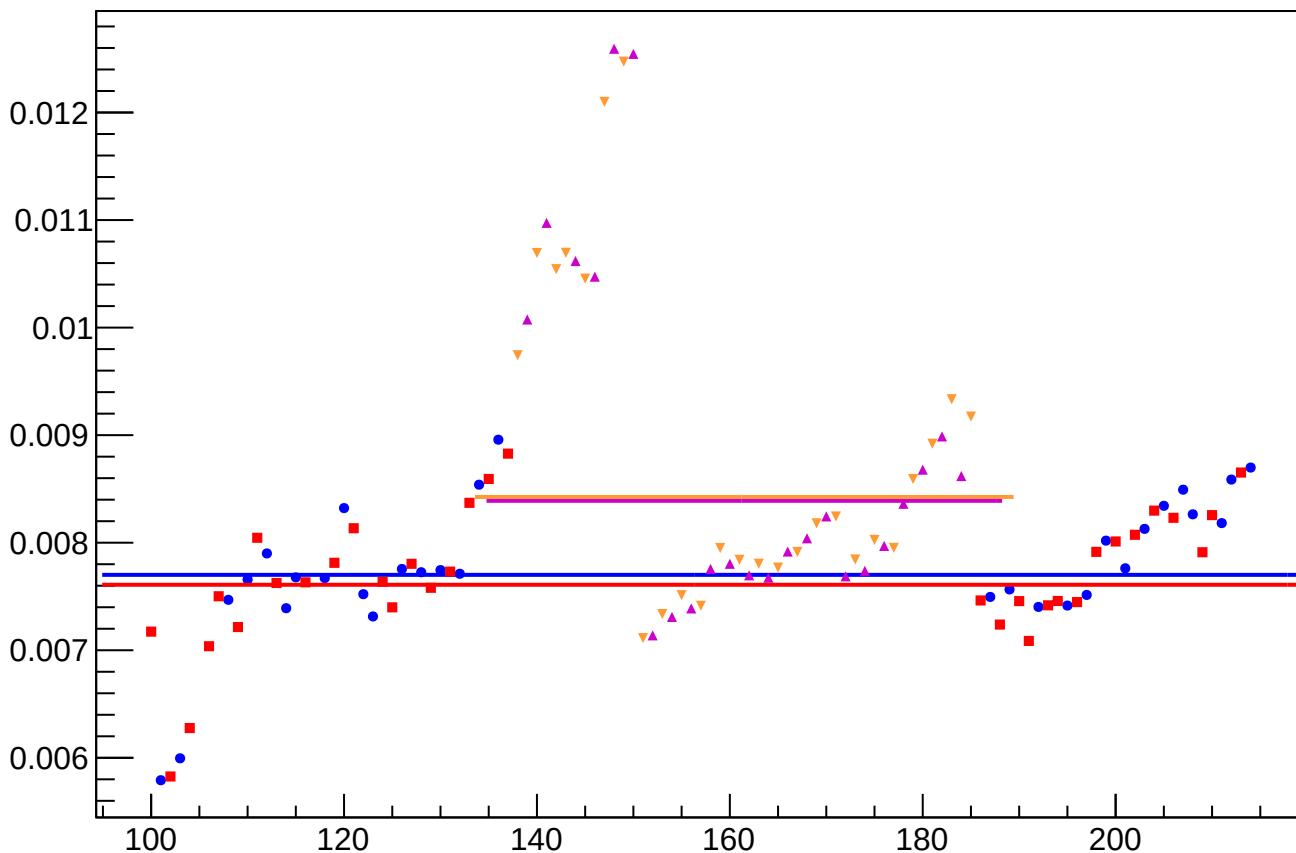
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.265+/-0.000

χ^2/NDF : 1458820926654.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 343548.8/30

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 260066.2/33

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

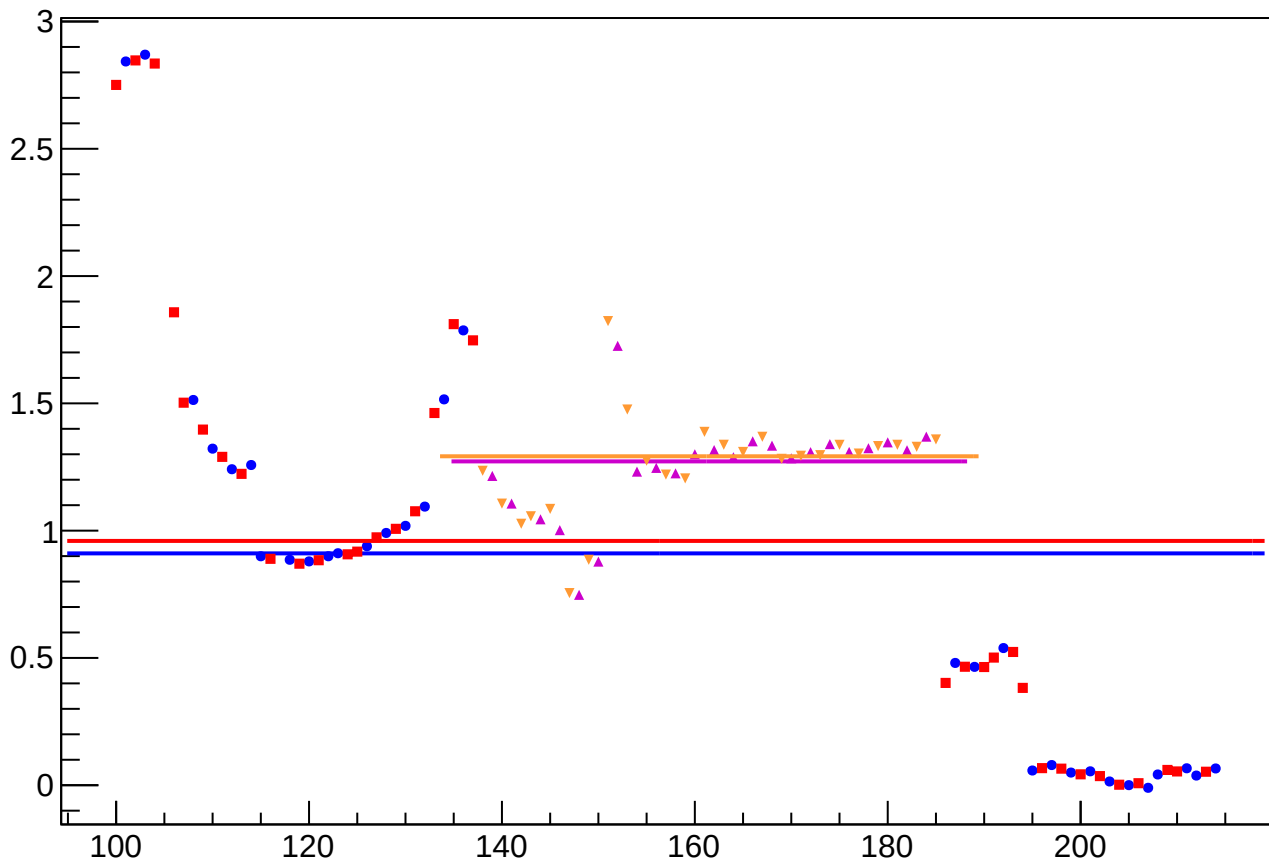
Right: 0.008+/-0.000 χ^2/NDF : 606048.0/64

In: 0.008+/-0.000 χ^2/NDF : 1305239.9/53

Out: 0.008+/-0.000 χ^2/NDF : 1233735.4/58

All: 0.008+/-0.000 χ^2/NDF : 2539620.3/112

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.911 $\pm$ 0.000 χ^2 /NDF: 139270499223.9/30

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 0.960 $\pm$ 0.000 χ^2 /NDF: 132467826342.6/33

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

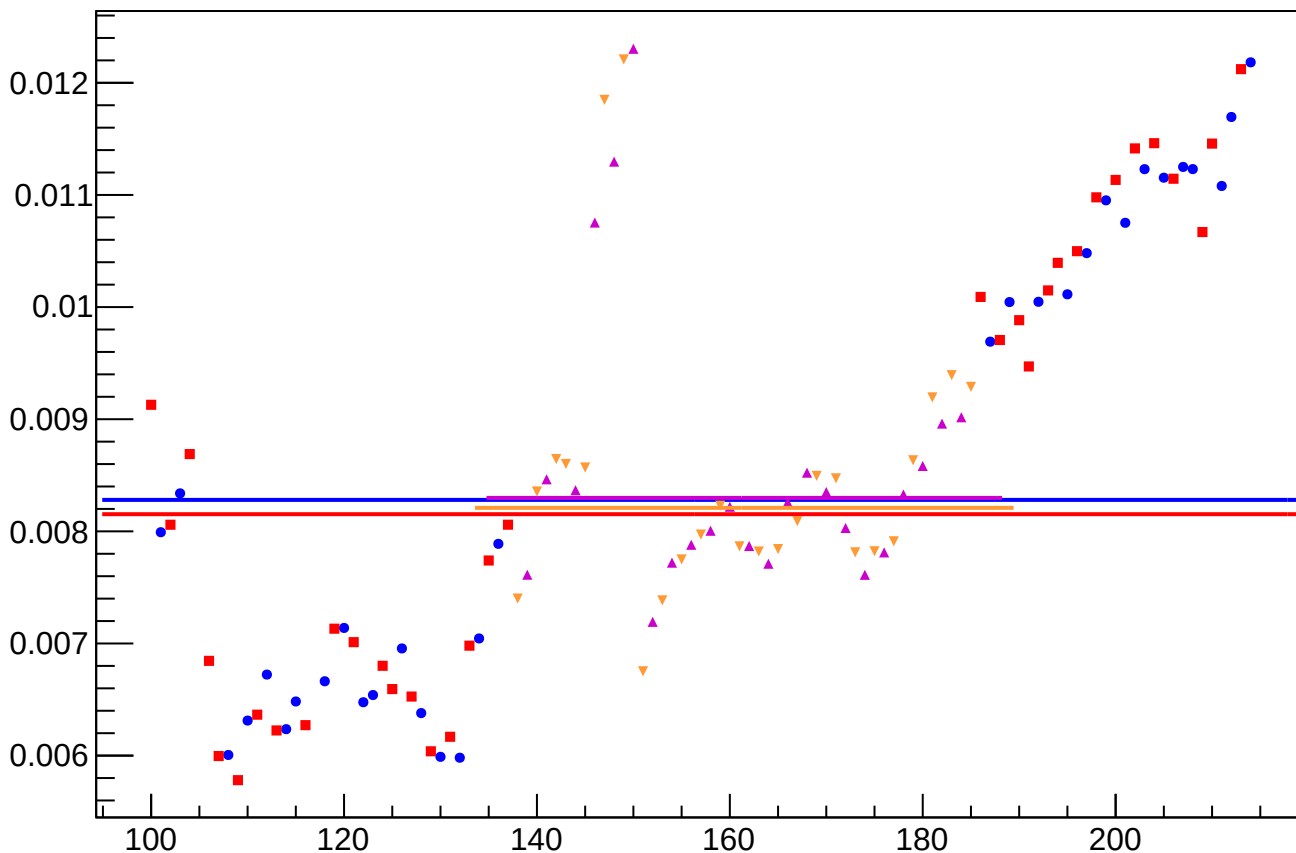
Right: 0.936 $\pm$ 0.000 χ^2 /NDF: 272020668398.5/64

In: 1.097 $\pm$ 0.000 χ^2 /NDF: 162224694984.2/53

Out: 1.132 $\pm$ 0.000 χ^2 /NDF: 155739752245.6/58

All: 1.115 $\pm$ 0.000 χ^2 /NDF: 318264729230.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1999643.2/30

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2068295.7/33

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

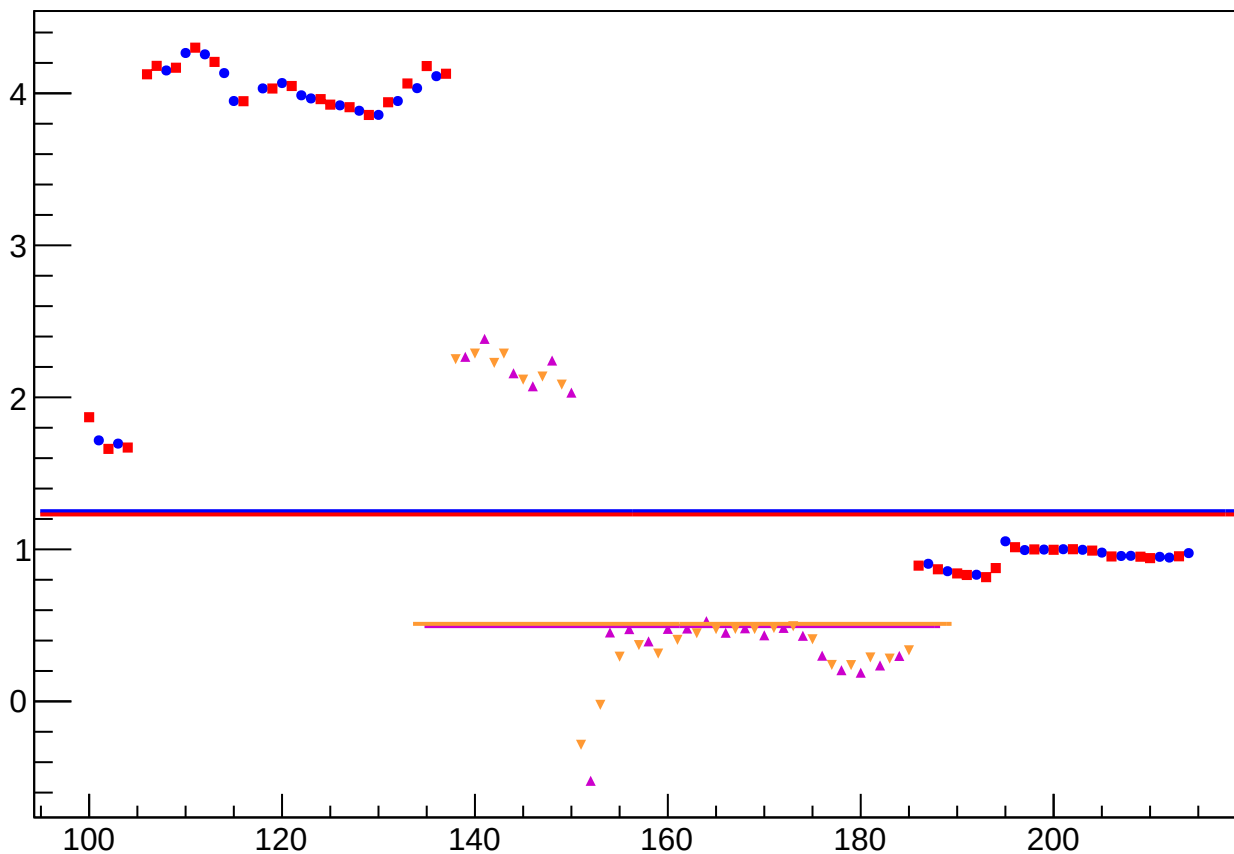
Right: 0.008+/-0.000 χ^2/NDF : 4071774.6/64

In: 0.008+/-0.000 χ^2/NDF : 2461740.3/53

Out: 0.008+/-0.000 χ^2/NDF : 2547973.6/58

All: 0.008+/-0.000 χ^2/NDF : 5015343.5/112

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.251+/-0.000 χ^2/NDF : 1525484429068.6/30

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.230+/-0.000 χ^2/NDF : 1716529455397.1/33

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

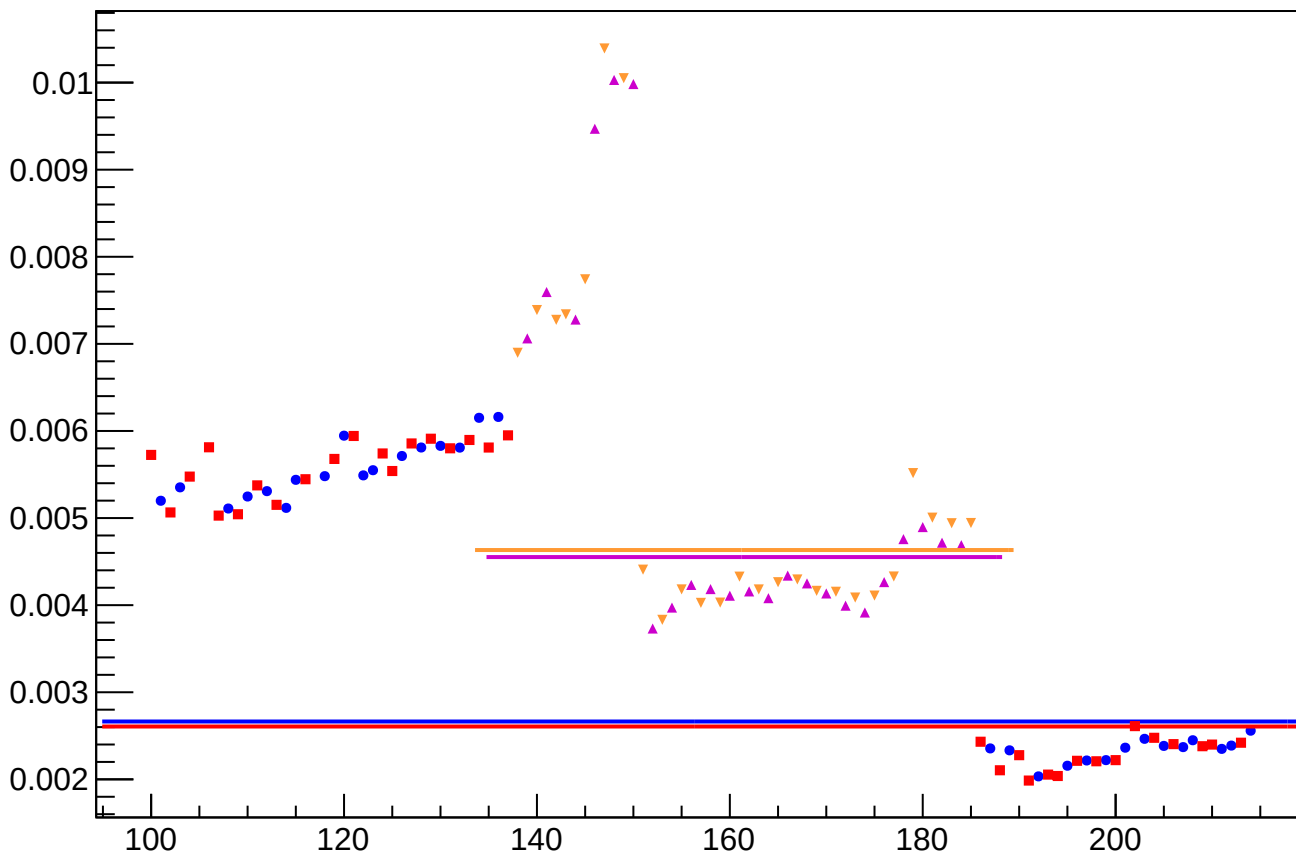
Right: 1.240+/-0.000 χ^2/NDF : 3242473995150.4/64

In: 1.040+/-0.000 χ^2/NDF : 2106561815072.1/53

Out: 1.035+/-0.000 χ^2/NDF : 2284698456078.5/58

All: 1.037+/-0.000 χ^2/NDF : 4391297296196.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4186124.9/30

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4474345.7/33

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

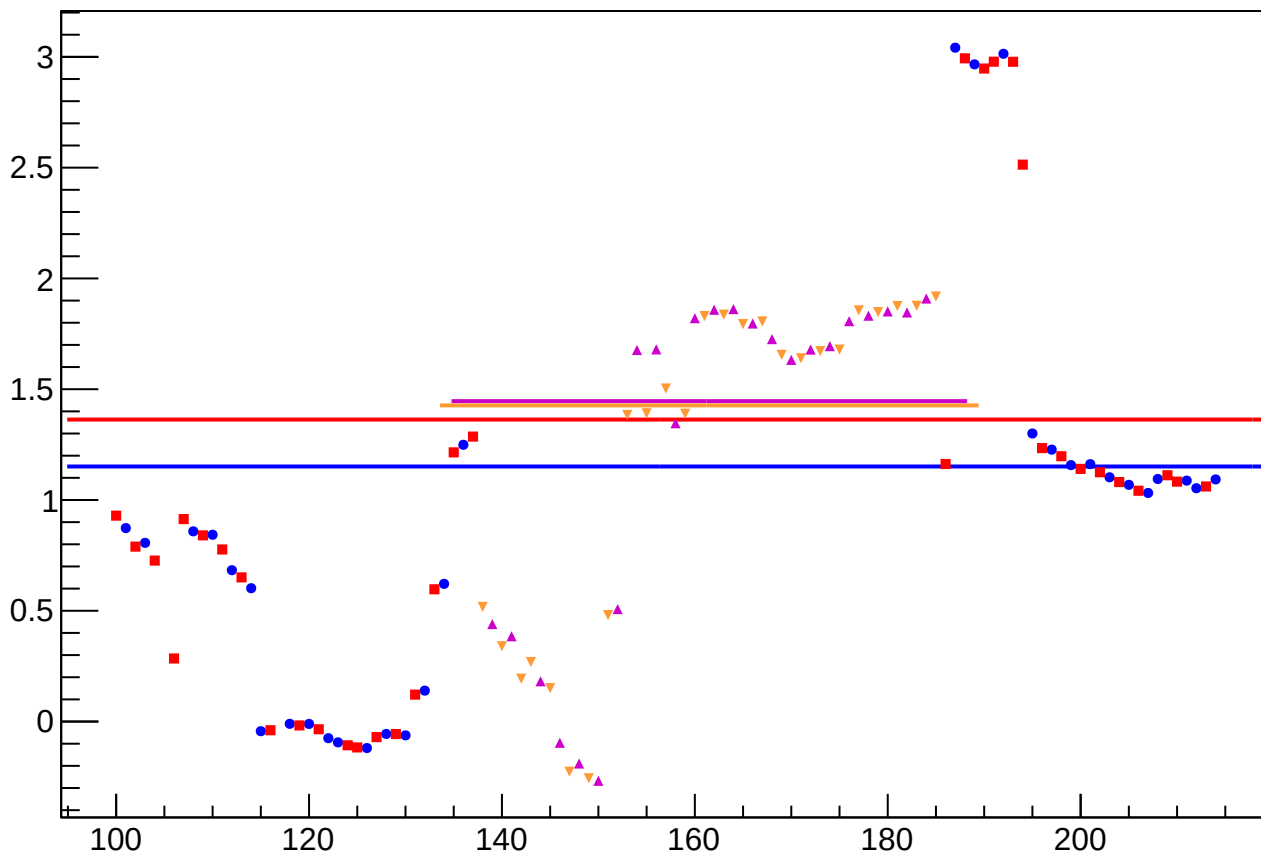
Right: 0.003+/-0.000 χ^2/NDF : 8667152.7/64

In: 0.003+/-0.000 χ^2/NDF :10317568.4/53

Out: 0.003+/-0.000 χ^2/NDF :11238253.6/58

All: 0.003+/-0.000 χ^2/NDF : 21559416.9/112

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.151+/-0.000 χ^2/NDF : 72875318151.8/30

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.363+/-0.000 χ^2/NDF : 101181373221.0/33

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

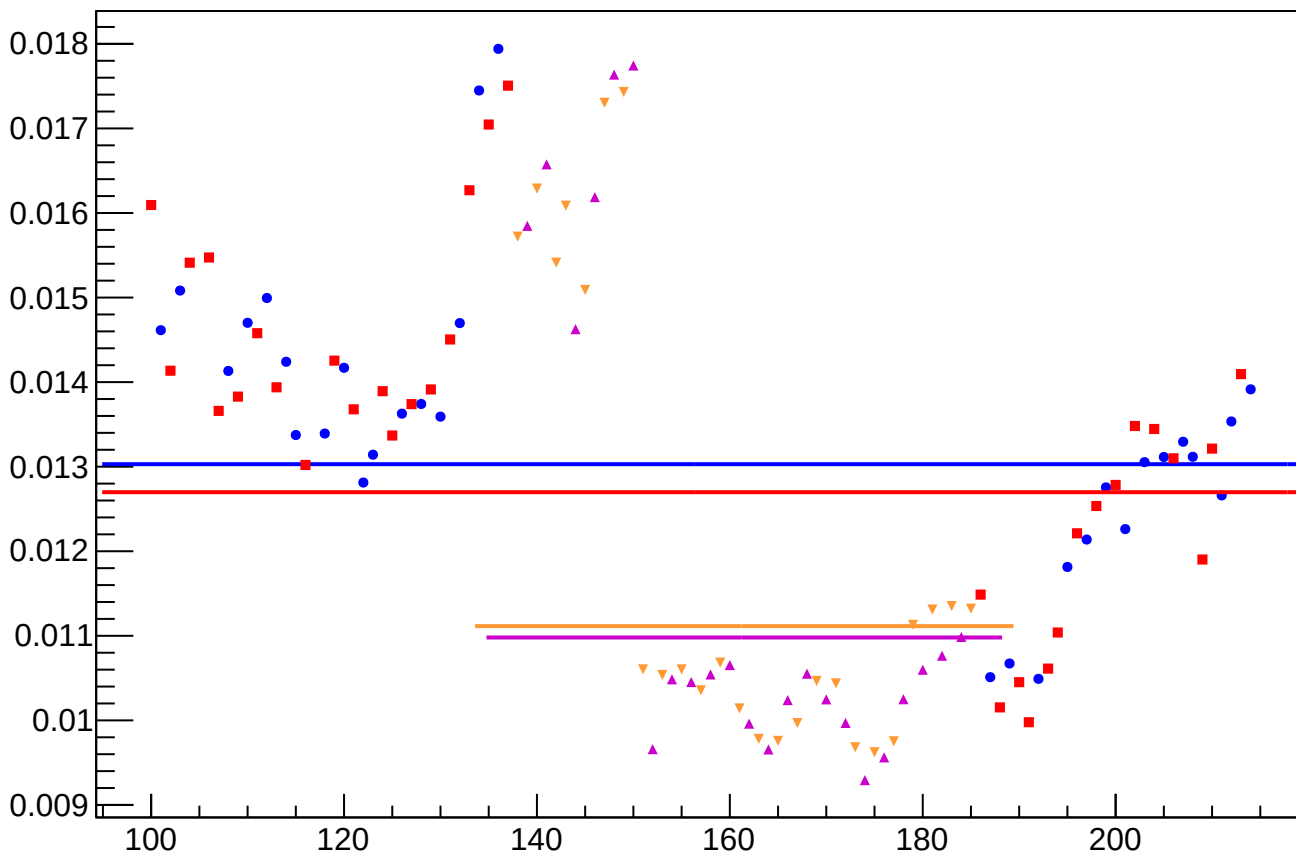
Right: 1.261+/-0.000 χ^2/NDF : 176295715929.1/64

In: 1.325+/-0.000 χ^2/NDF : 131549106181.2/53

Out: 1.400+/-0.000 χ^2/NDF : 151417609040.7/58

All: 1.363+/-0.000 χ^2/NDF : 283646996656.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 445962.3/30

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 583366.2/33

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

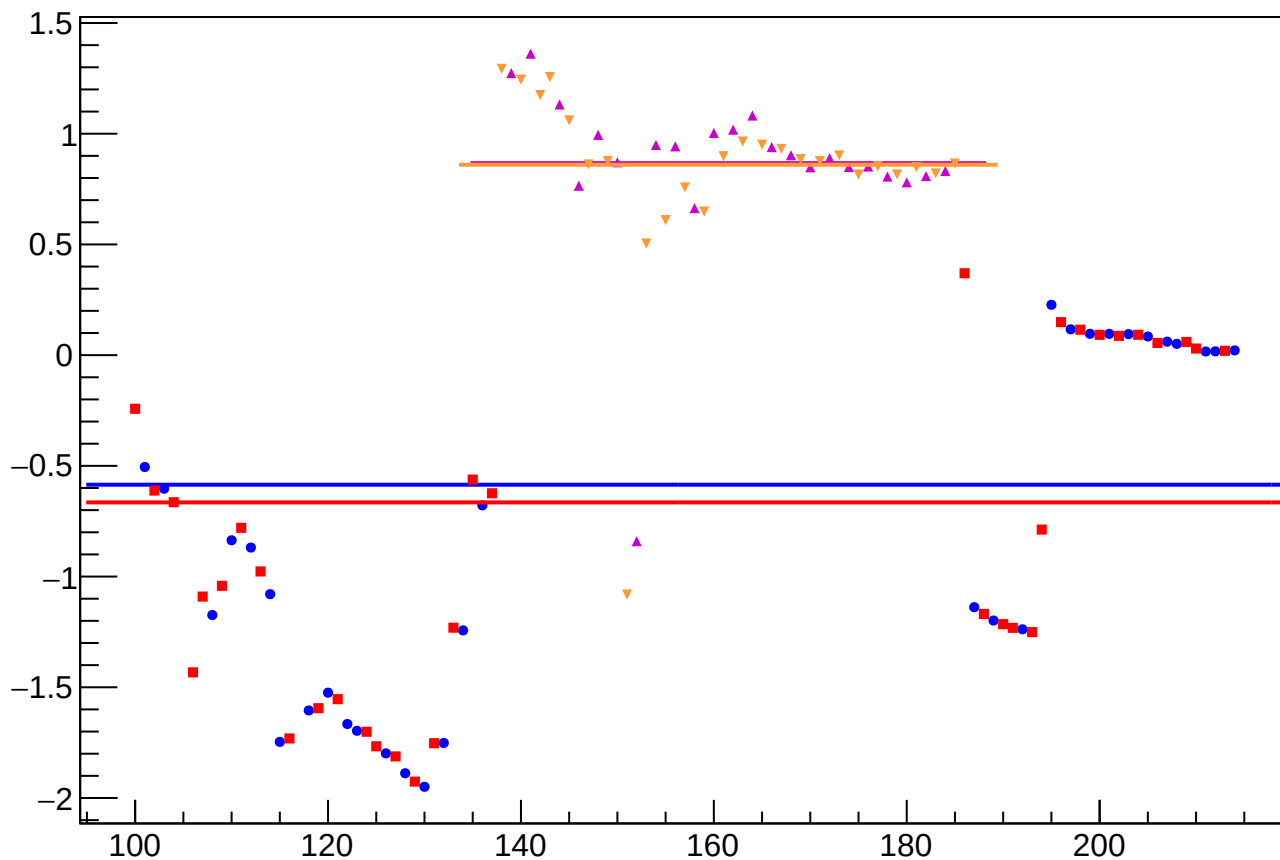
Right: 0.013+/-0.000 χ^2/NDF : 1040279.0/64

In: 0.012+/-0.000 χ^2/NDF :2185962.6/53

Out: 0.012+/-0.000 χ^2/NDF :2111600.9/58

All: 0.012+/-0.000 χ^2/NDF : 4297981.6/112

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.585+/-0.000 χ^2/NDF : 195243248649.7/30

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.665+/-0.000 χ^2/NDF : 180119658750.2/33

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

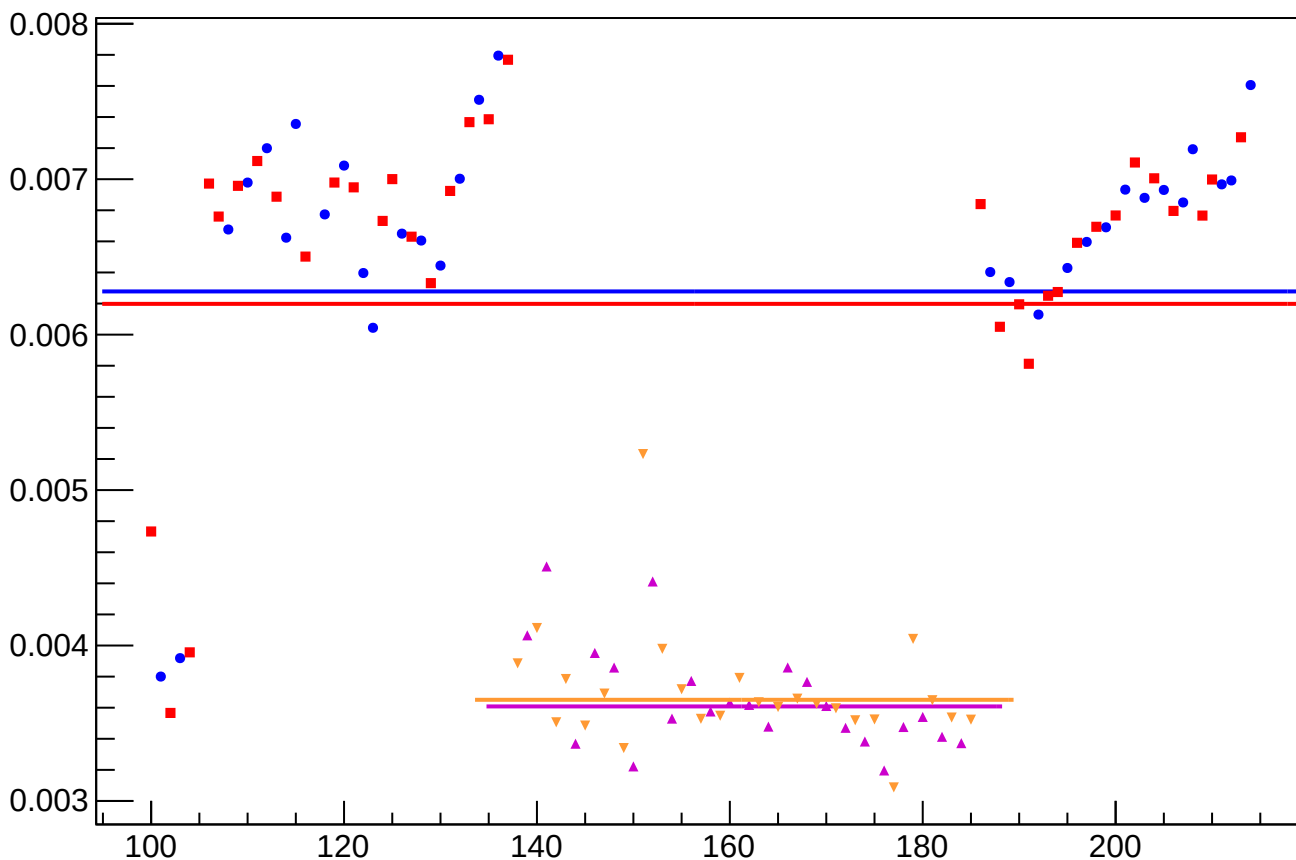
Right: -0.626+/-0.000 χ^2/NDF : 376645180890.8/64

In: 0.511+/-0.000 χ^2/NDF : 965757801341.2/53

Out: 0.482+/-0.000 χ^2/NDF : 1028981576823.7/58

All: 0.496+/-0.000 χ^2/NDF : 1995457574335.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1106766.9/30

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1153690.3/33

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

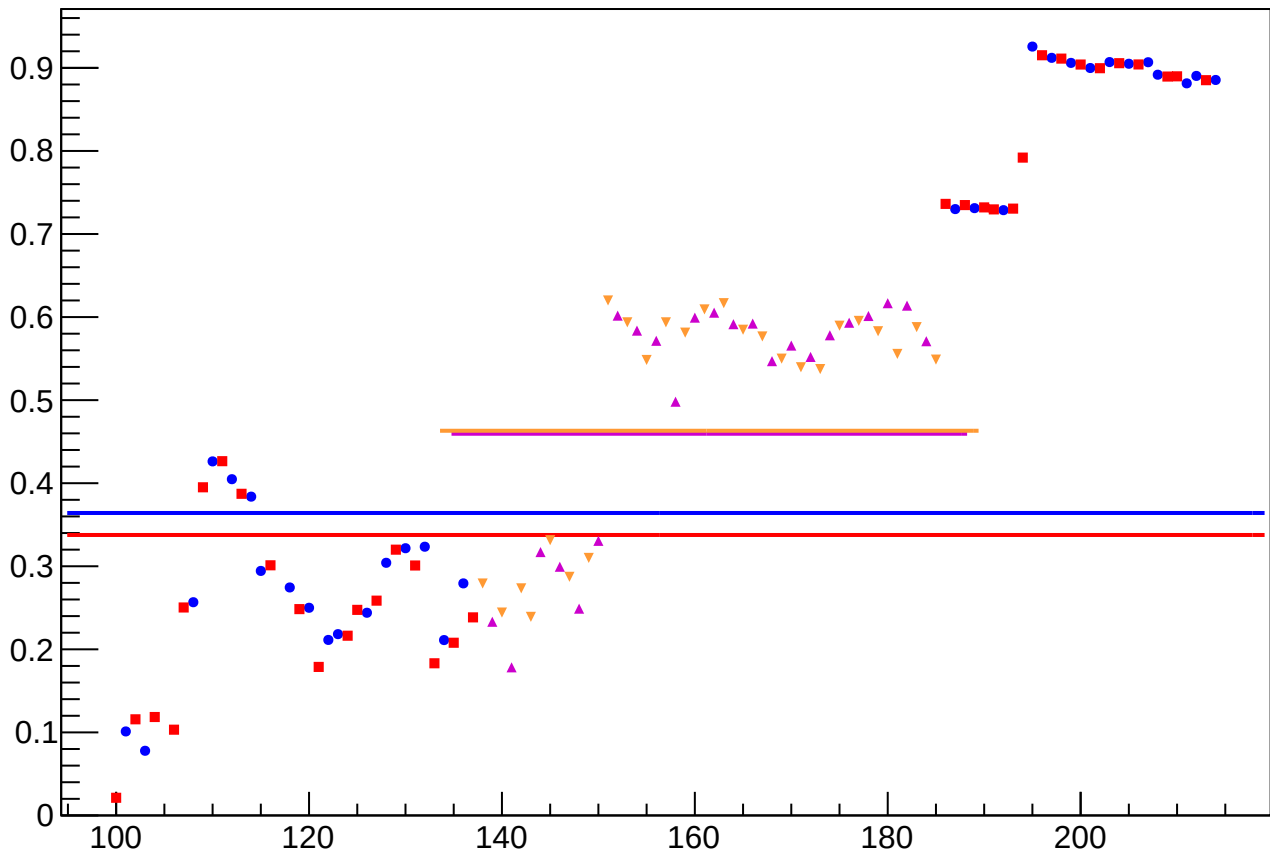
Right: 0.006+/-0.000 χ^2/NDF : 2263028.7/64

In: 0.004+/-0.000 χ^2/NDF :5548766.5/53

Out: 0.004+/-0.000 χ^2/NDF :5423155.9/58

All: 0.004+/-0.000 χ^2/NDF : 10972595.8/112

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.364+/-0.000 χ^2/NDF : 186501287595.0/30

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.338+/-0.000 χ^2/NDF : 193531029057.9/33

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

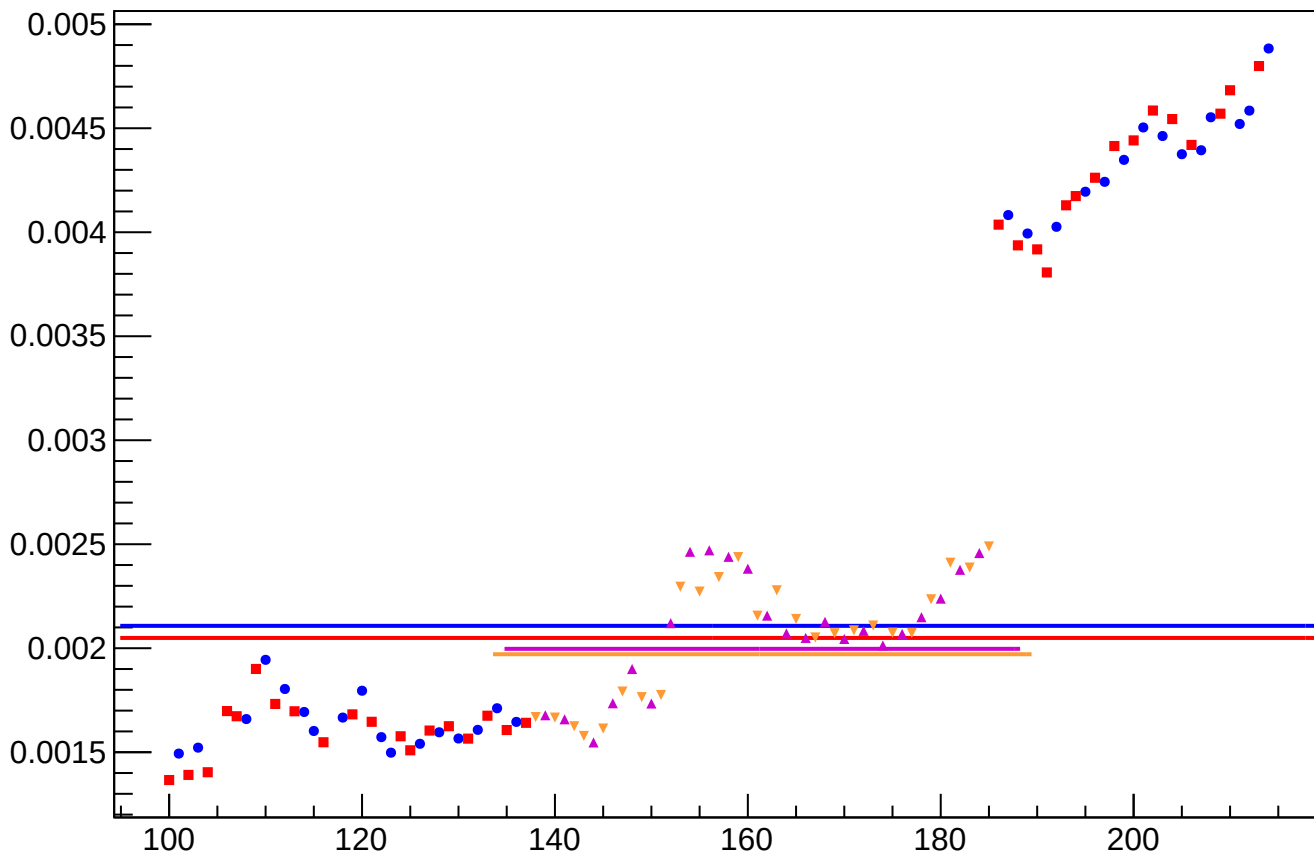
Right: 0.350+/-0.000 χ^2/NDF : 381119385955.9/64

In: 0.420+/-0.000 χ^2/NDF : 306861134422.8/53

Out: 0.411+/-0.000 χ^2/NDF : 326049703921.8/58

All: 0.415+/-0.000 χ^2/NDF : 633216947679.8

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 6561447.7/30

Left Out: 0.002+/-0.000 χ^2/NDF :730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6837828.4/33

Left In: 0.002+/-0.000 χ^2/NDF :666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

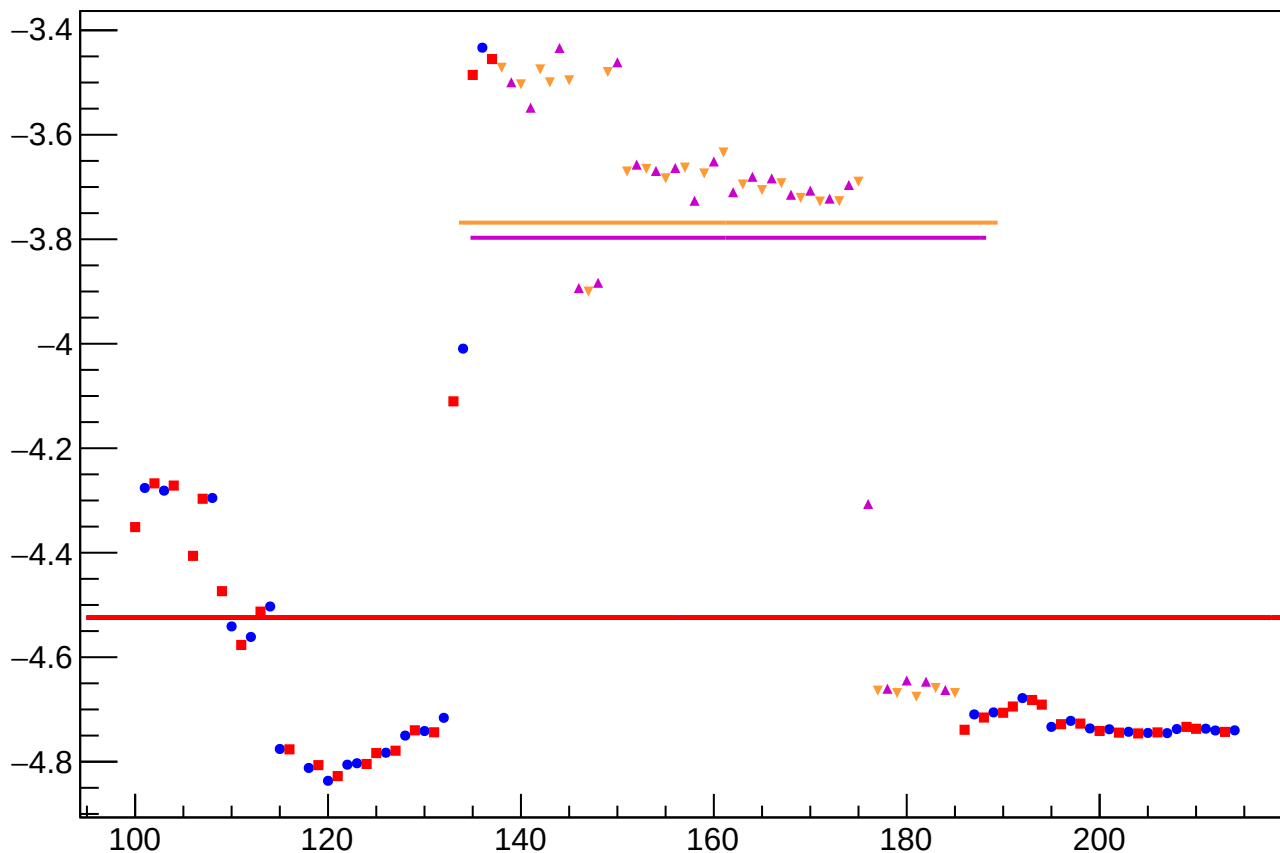
Right: 0.002+/-0.000 χ^2/NDF : 13409778.2/64

In: 0.002+/-0.000 χ^2/NDF :7270293.2/53

Out: 0.002+/-0.000 χ^2/NDF :7591430.5/58

All: 0.002+/-0.000 χ^2/NDF : 14873215.9/112

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.525+/-0.000 χ^2/NDF : 444409330806.3/30

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.523+/-0.000 χ^2/NDF : 378776501064.5/33

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

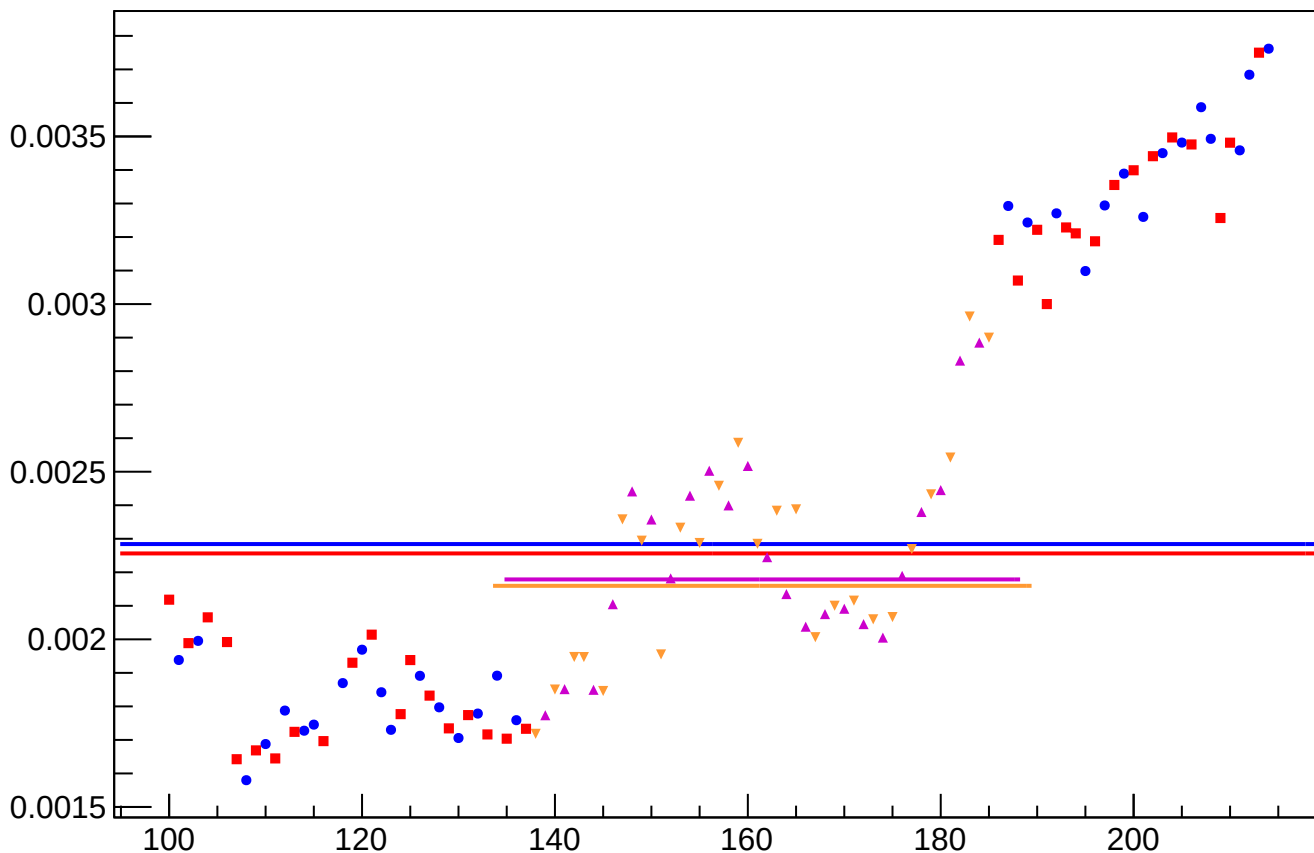
Right: -4.524+/-0.000 χ^2/NDF : 823189221317.7/64

In: -4.121+/-0.000 χ^2/NDF : 1725738743529.3/53

Out: -4.103+/-0.000 χ^2/NDF : 1859302920738.9/58

All: -4.112+/-0.000 χ^2/NDF : 3586110934401

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3160348.0/30

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3098988.7/33

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

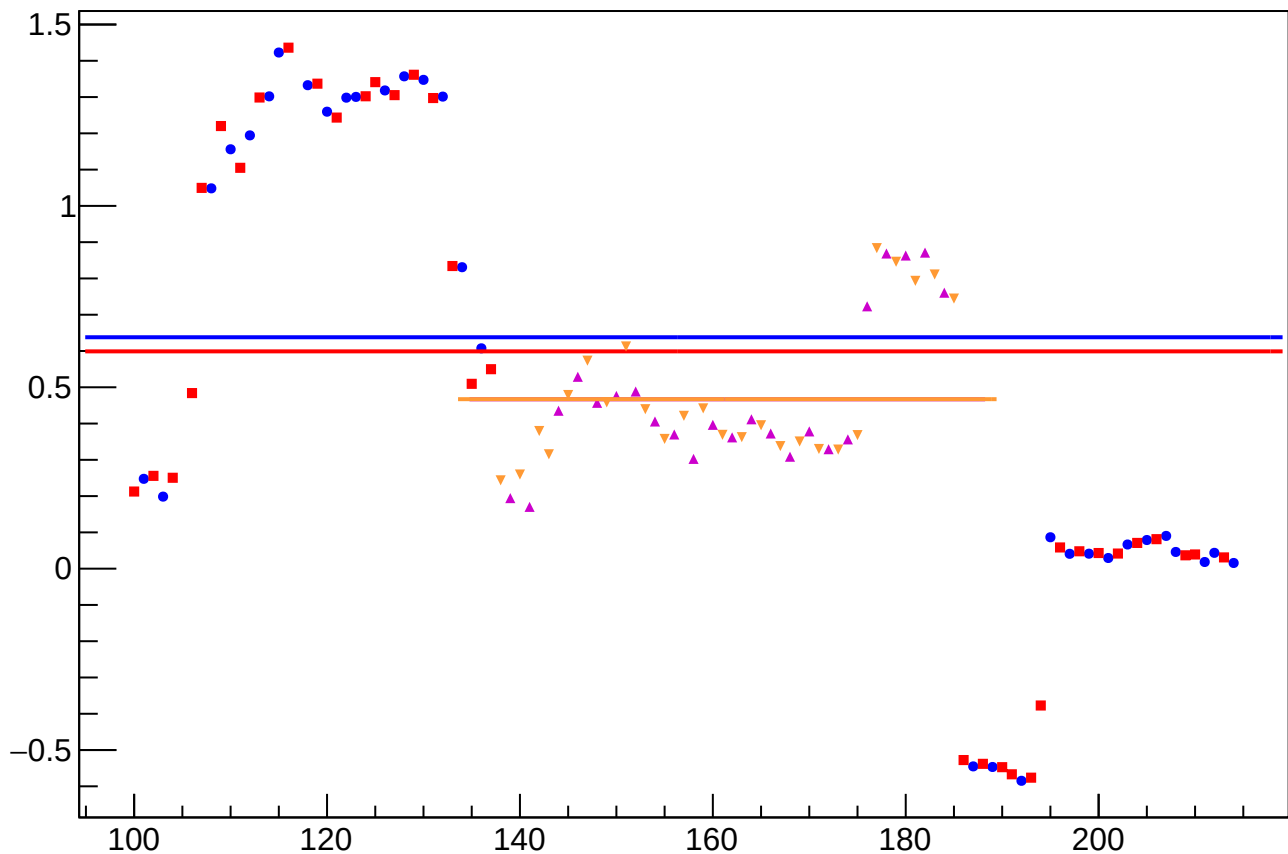
Right: 0.002+/-0.000 χ^2/NDF : 6261634.7/64

In: 0.002+/-0.000 χ^2/NDF :3658800.1/53

Out: 0.002+/-0.000 χ^2/NDF :3678390.6/58

All: 0.002+/-0.000 χ^2/NDF : 7340749.5/112

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.638 $\pm$ 0.000 χ^2 /NDF: 83405941364.1/30

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.599 $\pm$ 0.000 χ^2 /NDF: 100774787487.7/33

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

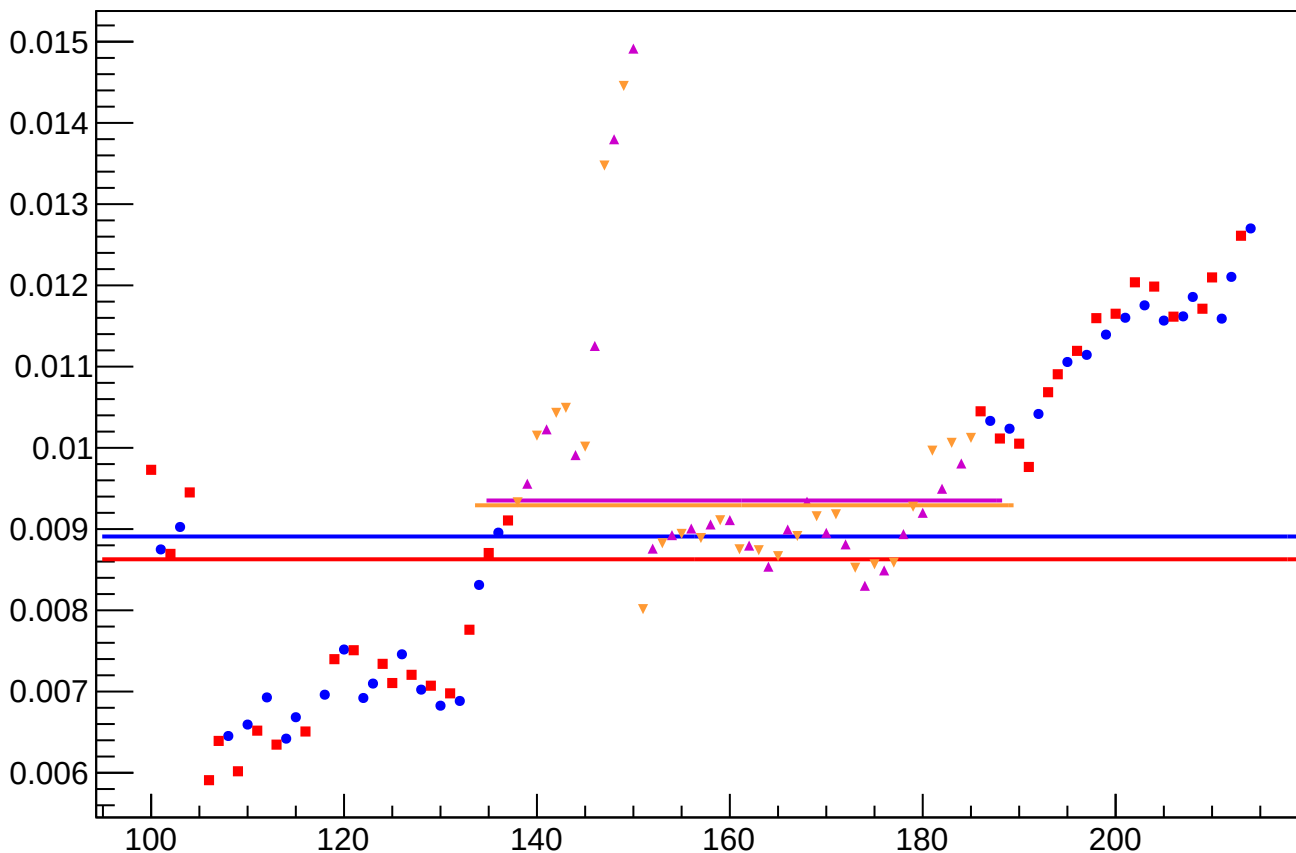
Right: 0.618 $\pm$ 0.000 χ^2 /NDF: 184337739833.1/64

In: 0.553 $\pm$ 0.000 χ^2 /NDF: 94316271878.4/53

Out: 0.534 $\pm$ 0.000 χ^2 /NDF: 109983515798.0/58

All: 0.543 $\pm$ 0.000 χ^2 /NDF: 204372948302.6

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1777697.2/30

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2068895.0/33

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

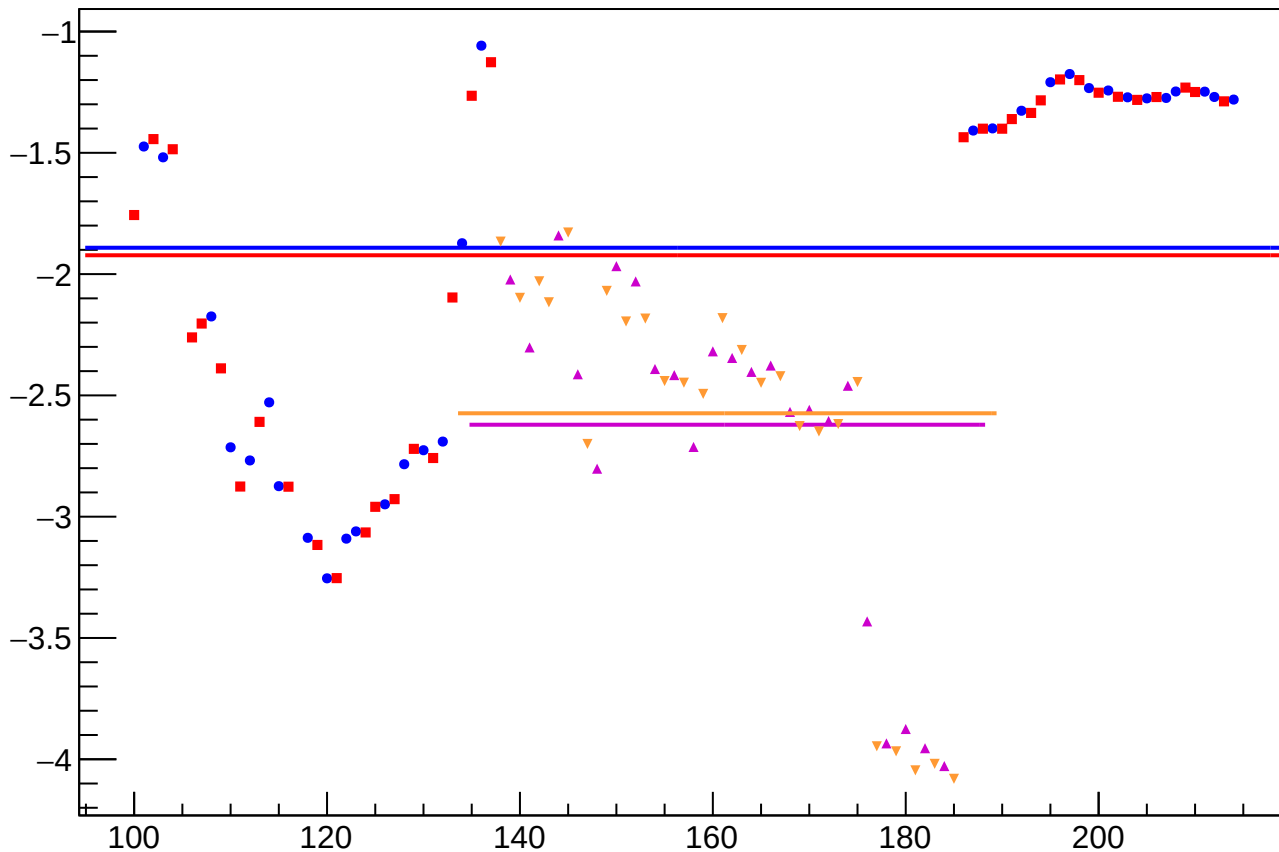
Right: 0.009+/-0.000 χ^2/NDF : 3862932.9/64

In: 0.009+/-0.000 χ^2/NDF :2373816.6/53

Out: 0.009+/-0.000 χ^2/NDF :2691268.6/58

All: 0.009+/-0.000 χ^2/NDF : 5077449.2/112

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.891 ± 0.000 $\chi^2/\text{NDF}: 134653334979.1/30$

Left Out: -2.574 ± 0.000 $\chi^2/\text{NDF}: 99176112704.9/24$

Right Out: -1.922 ± 0.000 $\chi^2/\text{NDF}: 130742222161.9/33$

Left In: -2.621 ± 0.000 $\chi^2/\text{NDF}: 80862402796.4/22$

Left: -2.597 ± 0.000 $\chi^2/\text{NDF}: 180296288698.4/47$

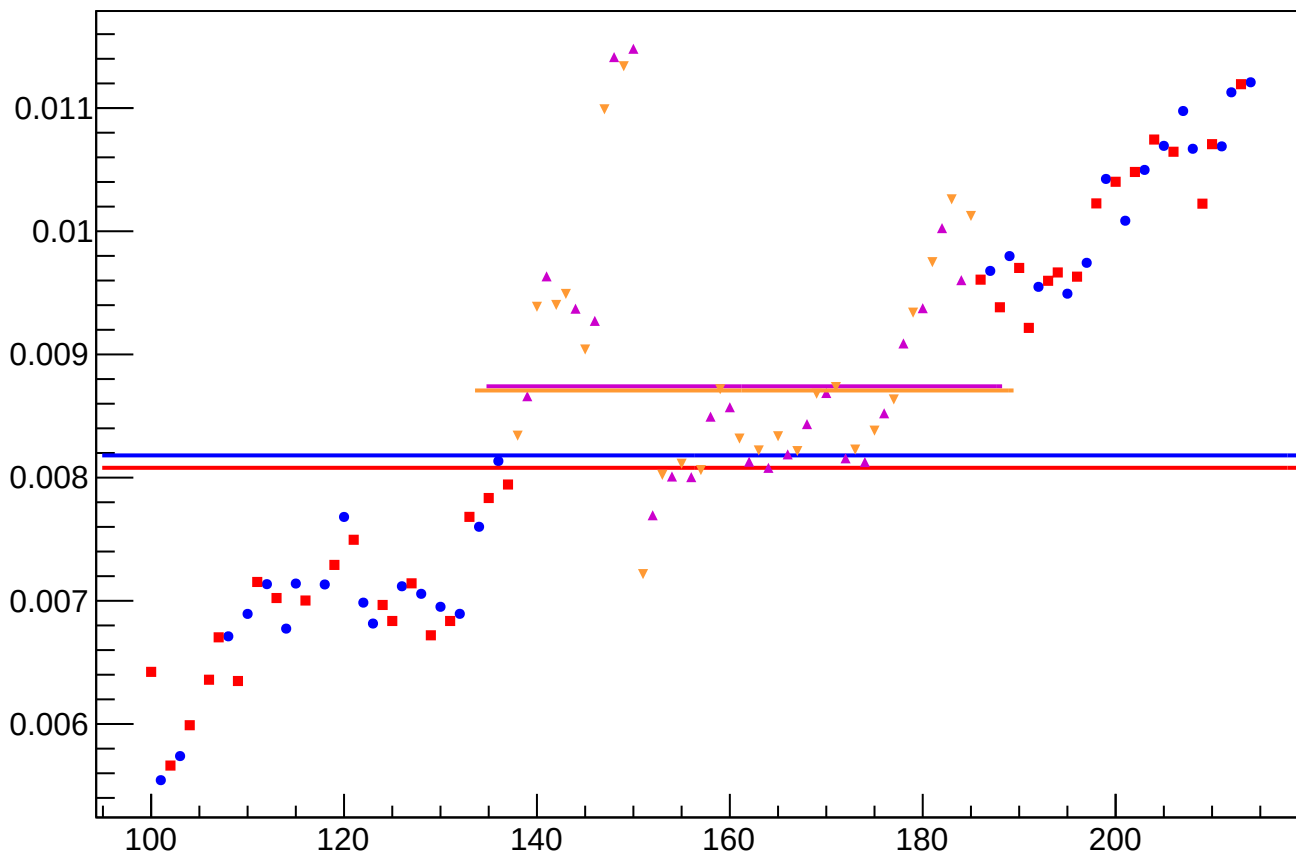
Right: -1.907 ± 0.000 $\chi^2/\text{NDF}: 265513583659.6/64$

In: -2.246 ± 0.000 $\chi^2/\text{NDF}: 276868269787.2/53$

Out: -2.239 ± 0.000 $\chi^2/\text{NDF}: 282121246758.0/58$

All: -2.242 ± 0.000 $\chi^2/\text{NDF}: 559000239628.2/112$

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1631636.1/30

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1516109.3/33

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

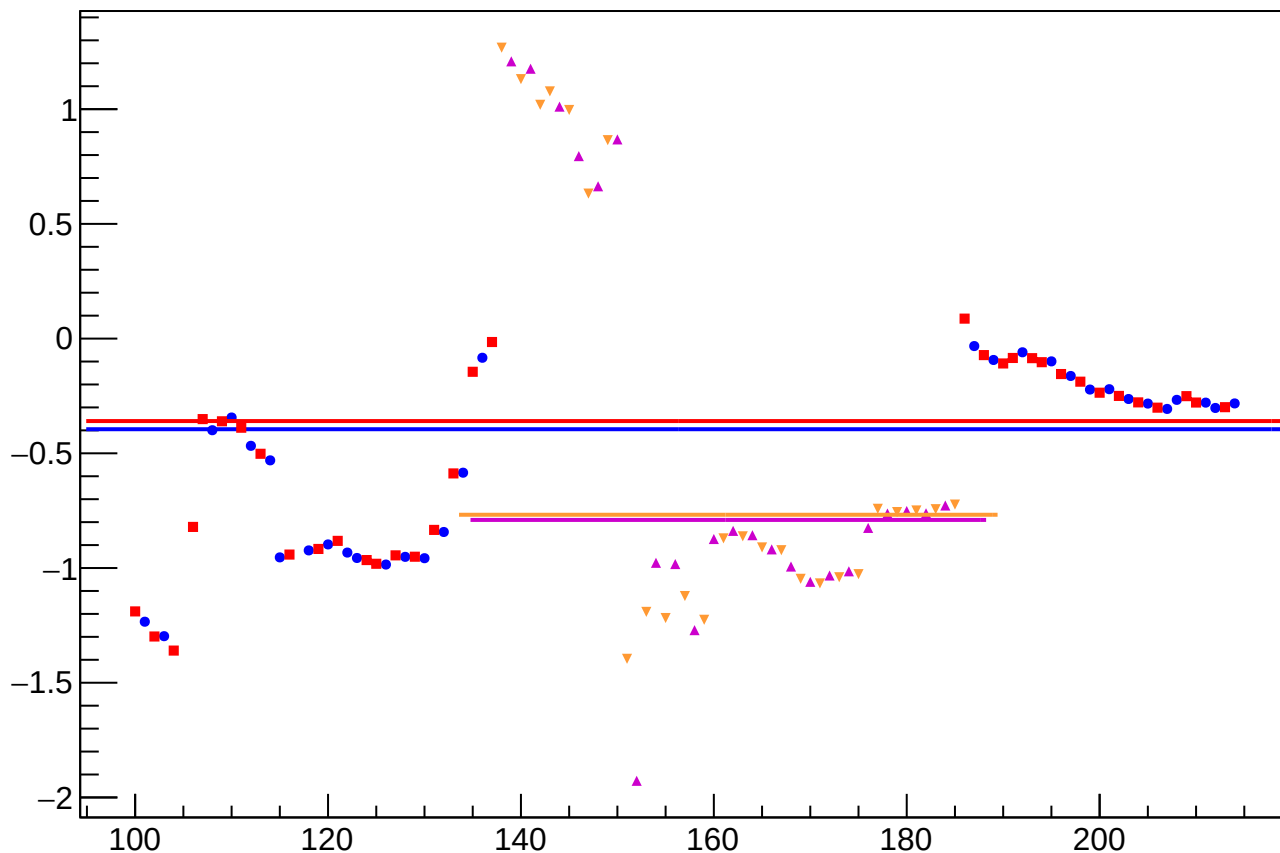
Right: 0.008+/-0.000 χ^2/NDF : 3150227.0/64

In: 0.008+/-0.000 χ^2/NDF : 2057889.5/53

Out: 0.008+/-0.000 χ^2/NDF : 1982455.0/58

All: 0.008+/-0.000 χ^2/NDF : 4042542.2/112

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.395+/-0.000 χ^2/NDF : 23000293551.7/30

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.359+/-0.000 χ^2/NDF : 25317389516.4/33

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

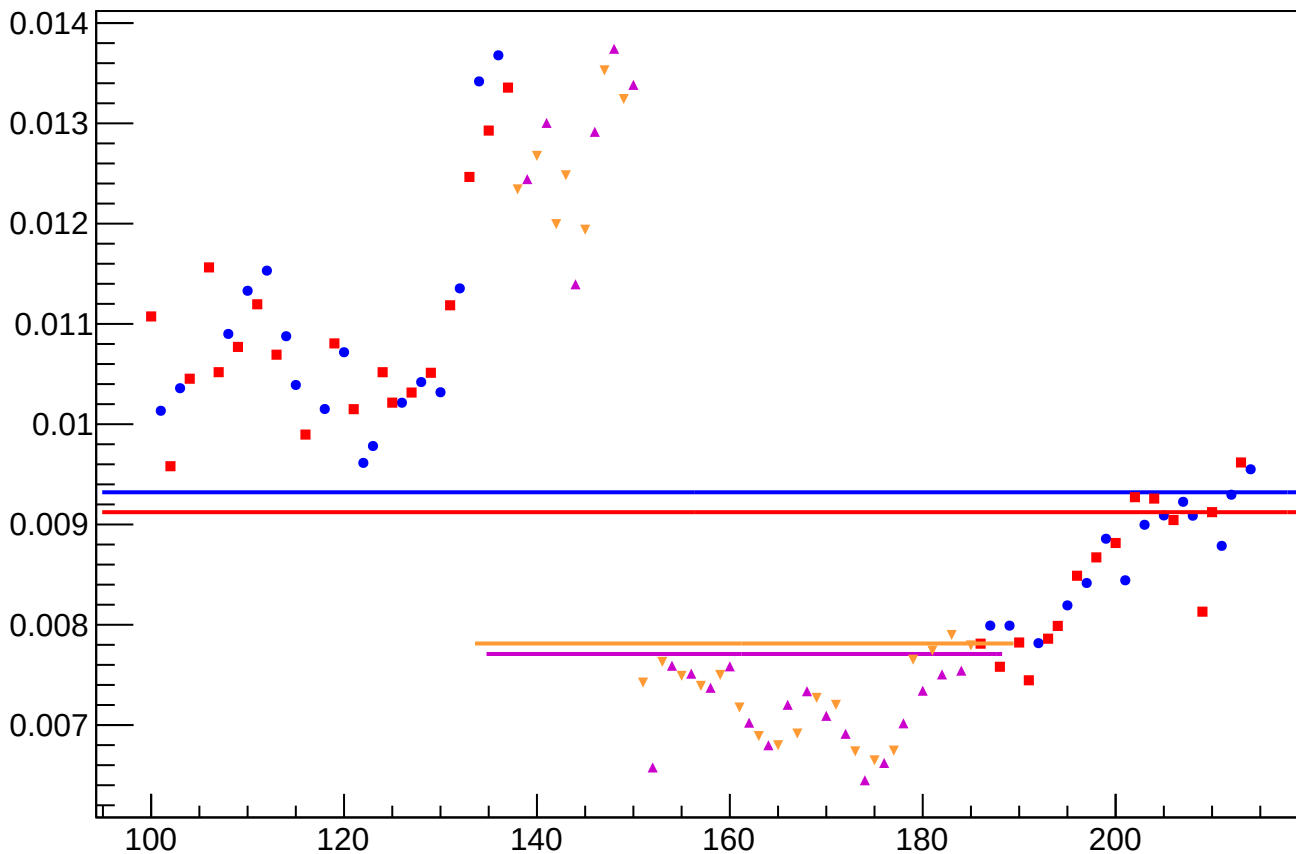
Right: -0.377+/-0.000 χ^2/NDF : 48439638260.8/64

In: -0.630+/-0.000 χ^2/NDF : 163739779630.6/53

Out: -0.598+/-0.000 χ^2/NDF : 165580231762.2/58

All: -0.614+/-0.000 χ^2/NDF : 329549214088.9

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 548479.4/30

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 654300.6/33

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

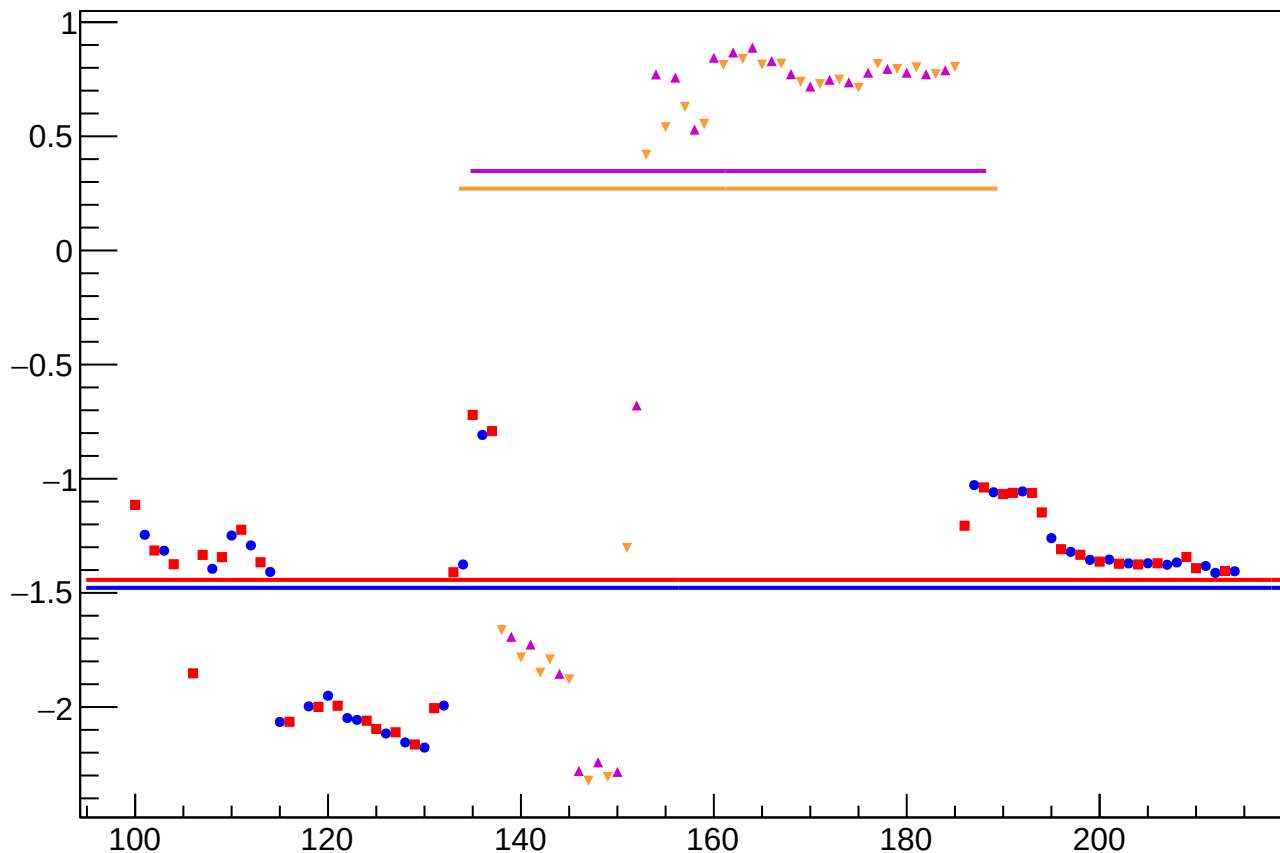
Right: 0.009+/-0.000 χ^2/NDF : 1210361.8/64

In: 0.008+/-0.000 χ^2/NDF :2870300.2/53

Out: 0.008+/-0.000 χ^2/NDF :2761108.7/58

All: 0.008+/-0.000 χ^2/NDF : 5631436.0/112

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.478+/-0.000 χ^2/NDF : 175121681146.6/30

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.443+/-0.000 χ^2/NDF : 164550282262.6/33

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

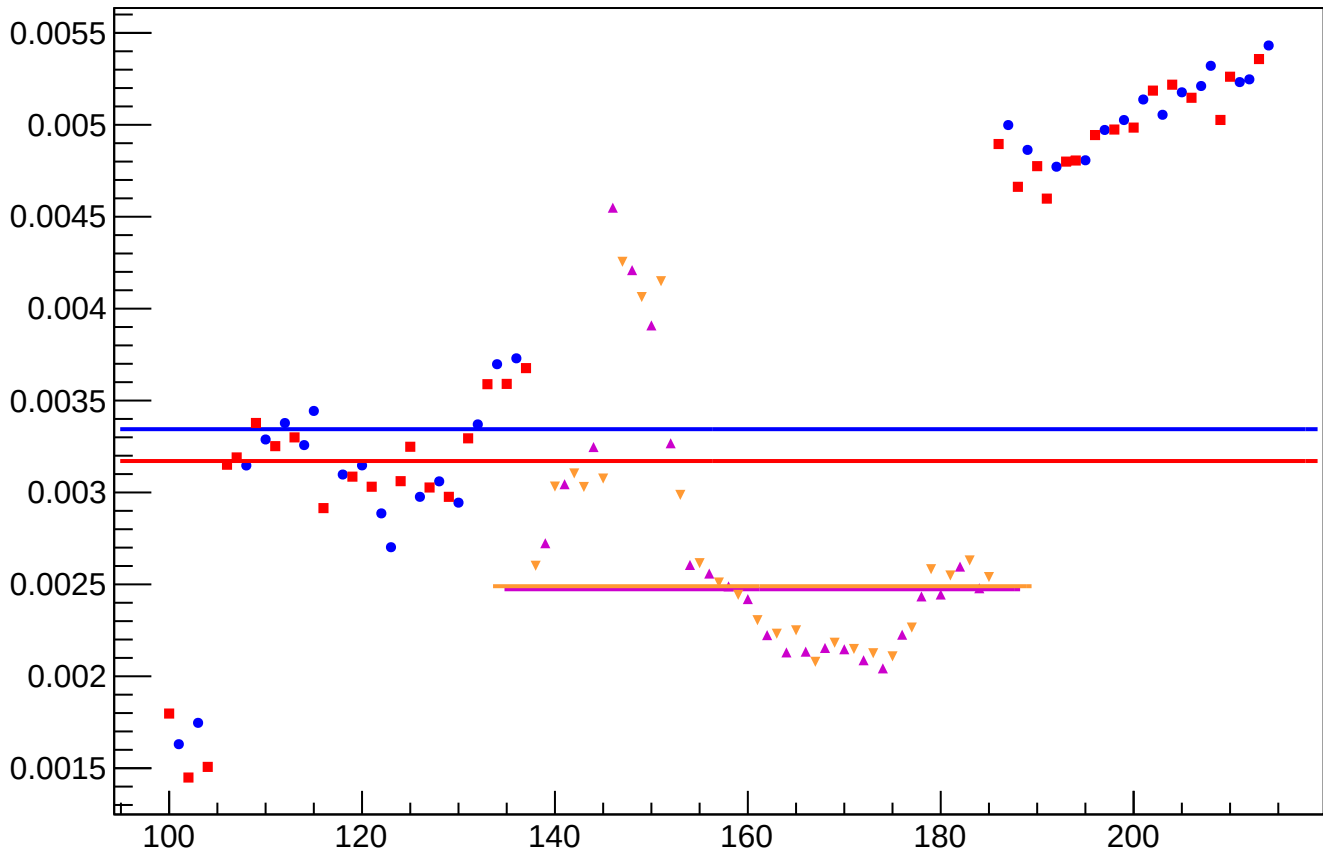
Right: -1.460+/-0.000 χ^2/NDF : 340454866168.1/64

In: -0.256+/-0.000 χ^2/NDF : 5187000877614.3/53

Out: -0.316+/-0.000 χ^2/NDF : 5385395593606.7/58

All: -0.287+/-0.000 χ^2/NDF : 1057934929574

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4317860.8/30

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5220375.6/33

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

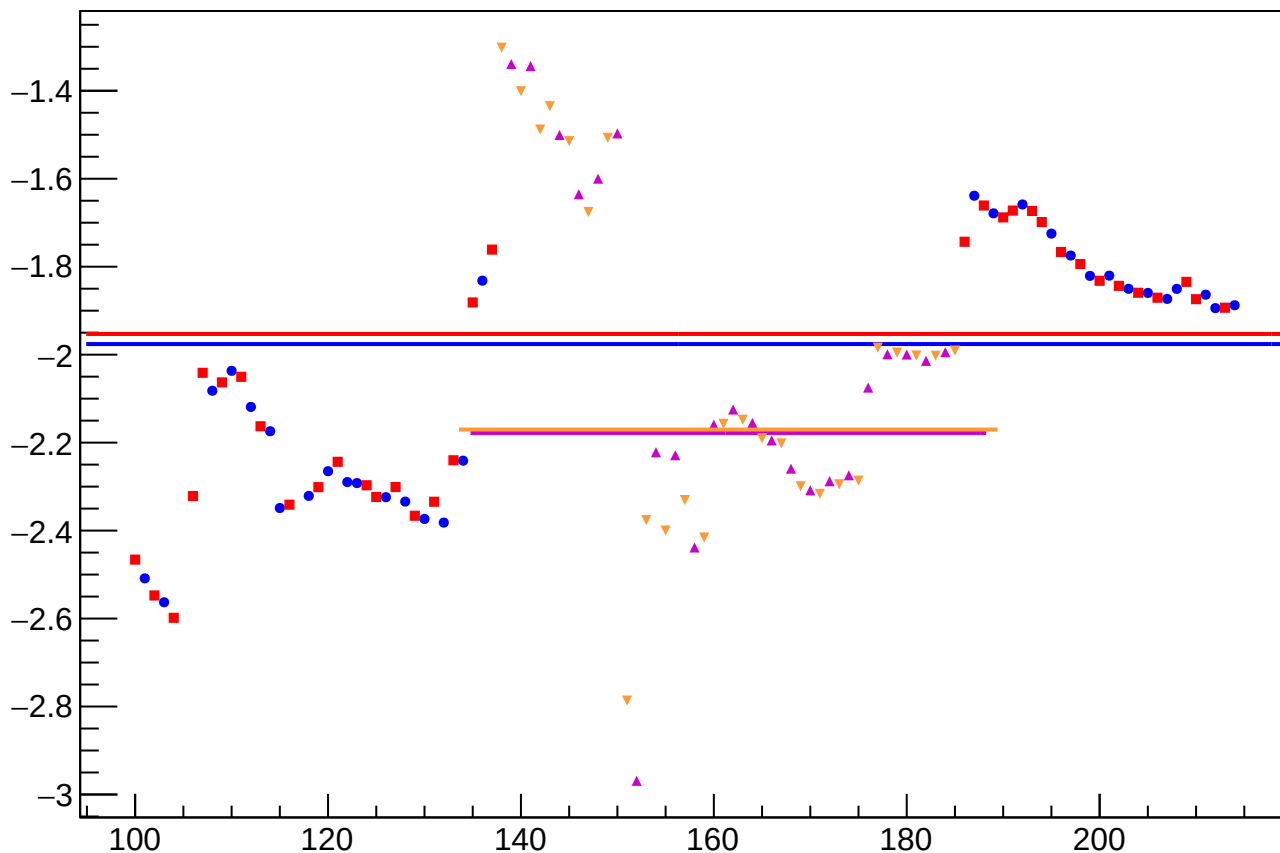
Right: 0.003+/-0.000 χ^2/NDF : 9577030.1/64

In: 0.003+/-0.000 χ^2/NDF :6698765.0/53

Out: 0.003+/-0.000 χ^2/NDF :7123553.6/58

All: 0.003+/-0.000 χ^2/NDF : 13827940.7/112

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.976+/-0.000 χ^2/NDF : 31445408350.2/30

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.953+/-0.000 χ^2/NDF : 35330349310.6/33

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

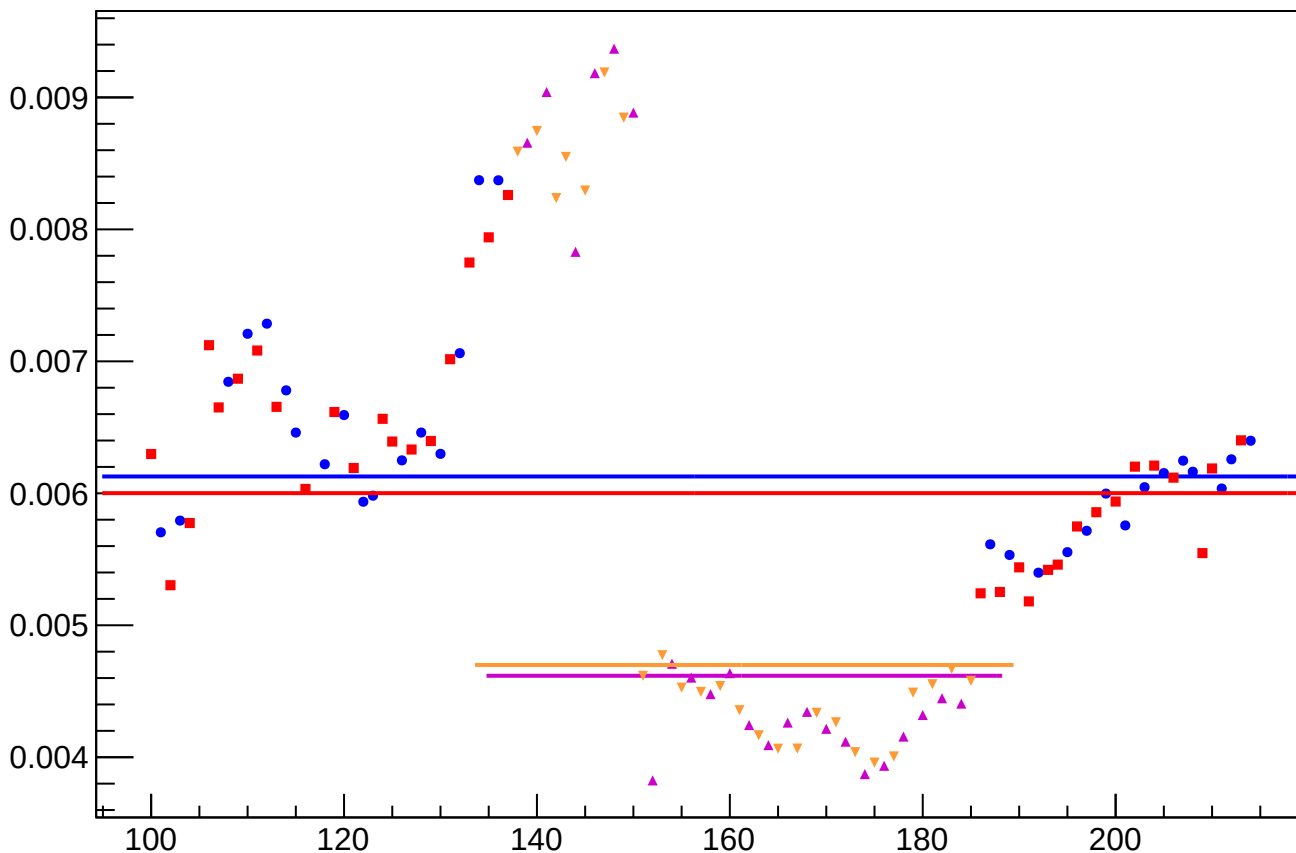
Right: -1.964+/-0.000 χ^2/NDF : 66892986225.4/64

In: -2.103+/-0.000 χ^2/NDF : 115937303555.9/53

Out: -2.088+/-0.000 χ^2/NDF : 108837617177.9/58

All: -2.095+/-0.000 χ^2/NDF : 224916793774.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 306681.3/30

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 370023.1/33

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

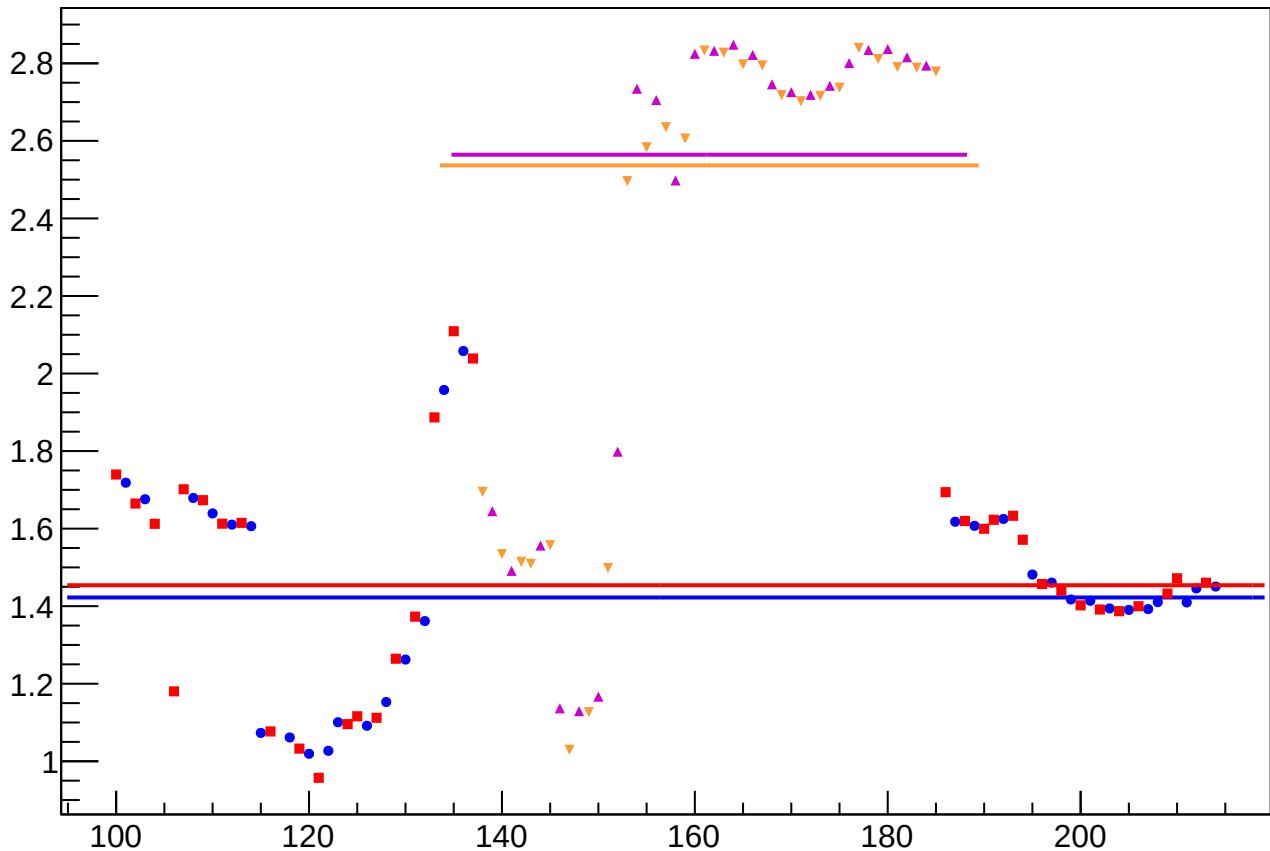
Right: 0.006+/-0.000 χ^2/NDF : 683829.7/64

In: 0.005+/-0.000 χ^2/NDF :3911751.4/53

Out: 0.005+/-0.000 χ^2/NDF :3662267.8/58

All: 0.005+/-0.000 χ^2/NDF : 7574352.5/112

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 174191333476.3/30

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177000558058.9/33

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

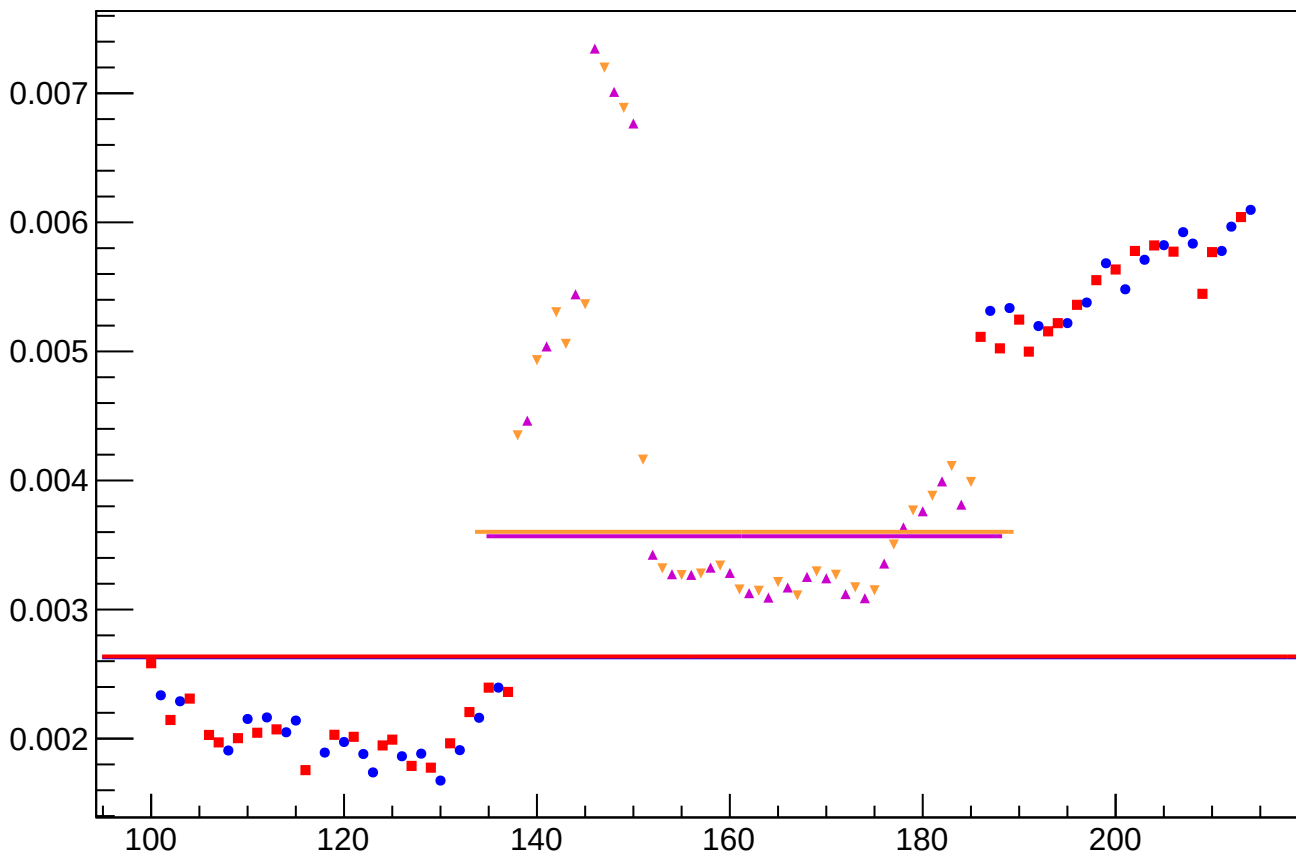
Right: 1.439+/-0.000 χ^2/NDF : 352127340171.5/64

In: 1.880+/-0.000 χ^2/NDF : 1392066683535.7/53

Out: 1.890+/-0.000 χ^2/NDF : 1348573178651.3/58

All: 1.885+/-0.000 χ^2/NDF : 2740786017539.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 6952474.2/30

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6729197.3/33

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

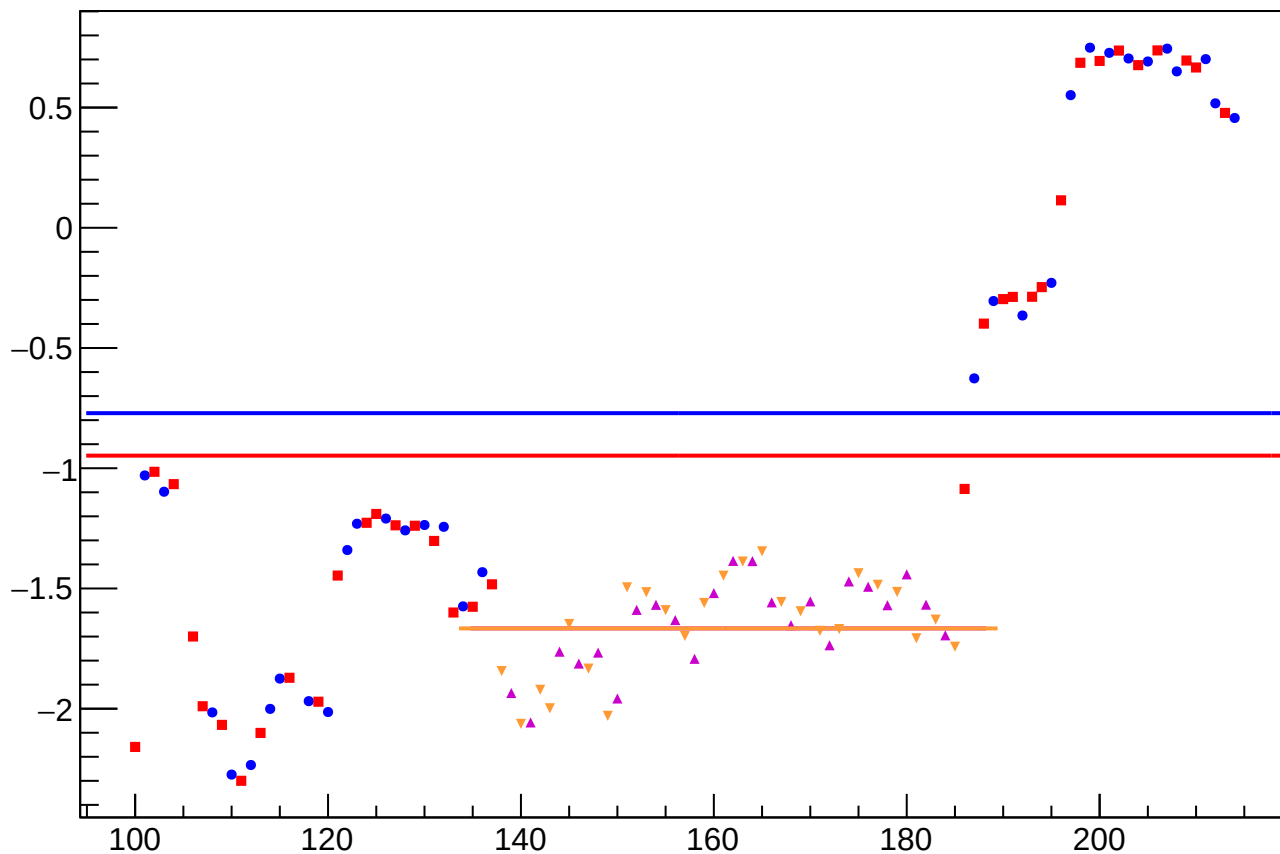
Right: 0.003+/-0.000 χ^2/NDF : 13681742.9/64

In: 0.003+/-0.000 χ^2/NDF :9806917.0/53

Out: 0.003+/-0.000 χ^2/NDF :9575415.6/58

All: 0.003+/-0.000 χ^2/NDF : 19383466.1/112

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.771 $\pm$ 0.000

χ^2/NDF : 229133219068.7/30

Left: -1.666 $\pm$ 0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666 $\pm$ 0.000

χ^2/NDF : 18325162131.2/24

Right: -0.865 $\pm$ 0.000

χ^2/NDF : 483399260269.8/64

Right Out: -0.948 $\pm$ 0.000

χ^2/NDF : 250548390922.0/33

In: -1.350 $\pm$ 0.000

χ^2/NDF : 359497556924.1/53

Out: -1.403 $\pm$ 0.000

χ^2/NDF : 352079616795.7/58

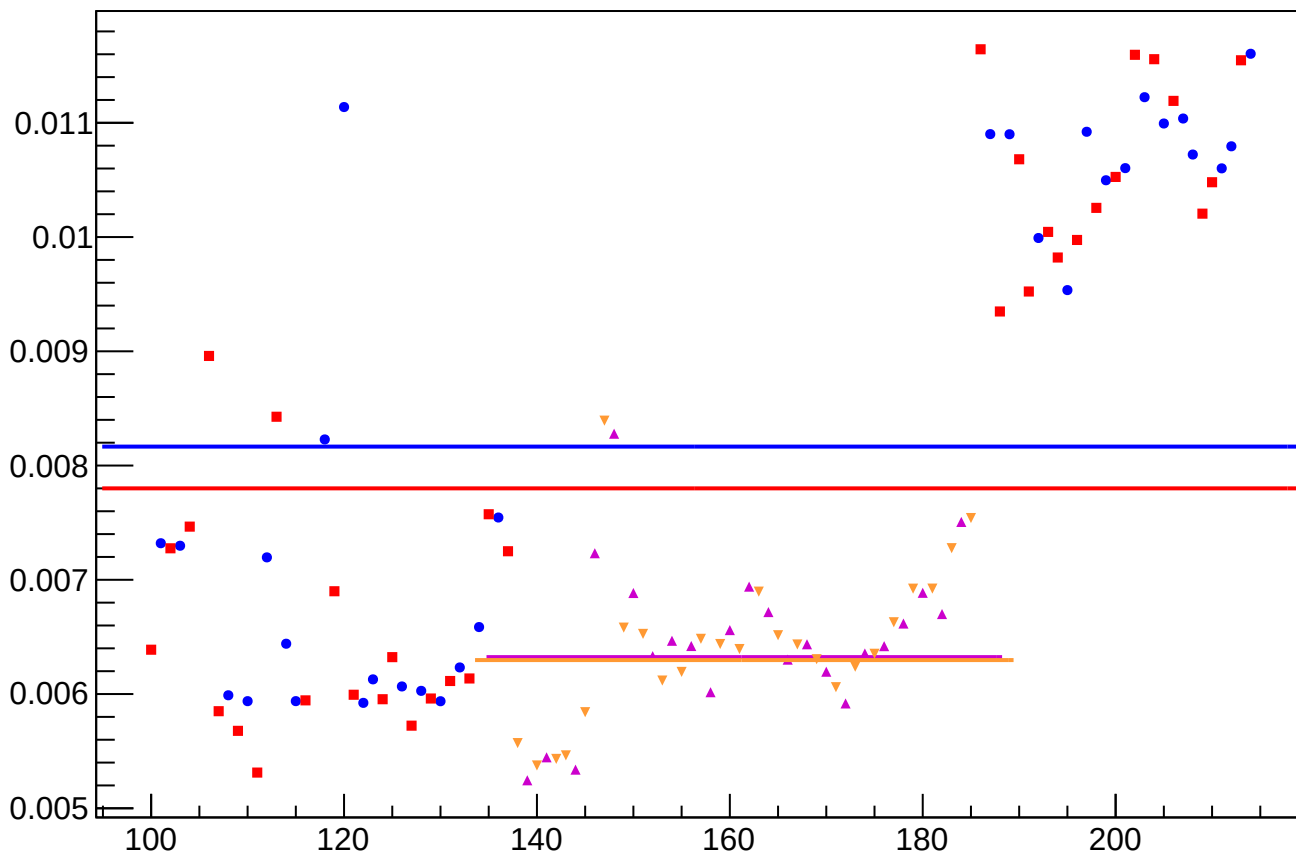
Left In: -1.666 $\pm$ 0.000

χ^2/NDF : 14292570816.9/22

All: -1.378 $\pm$ 0.000

χ^2/NDF : 712527484191.9

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1995524.2/30

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2254205.1/33

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

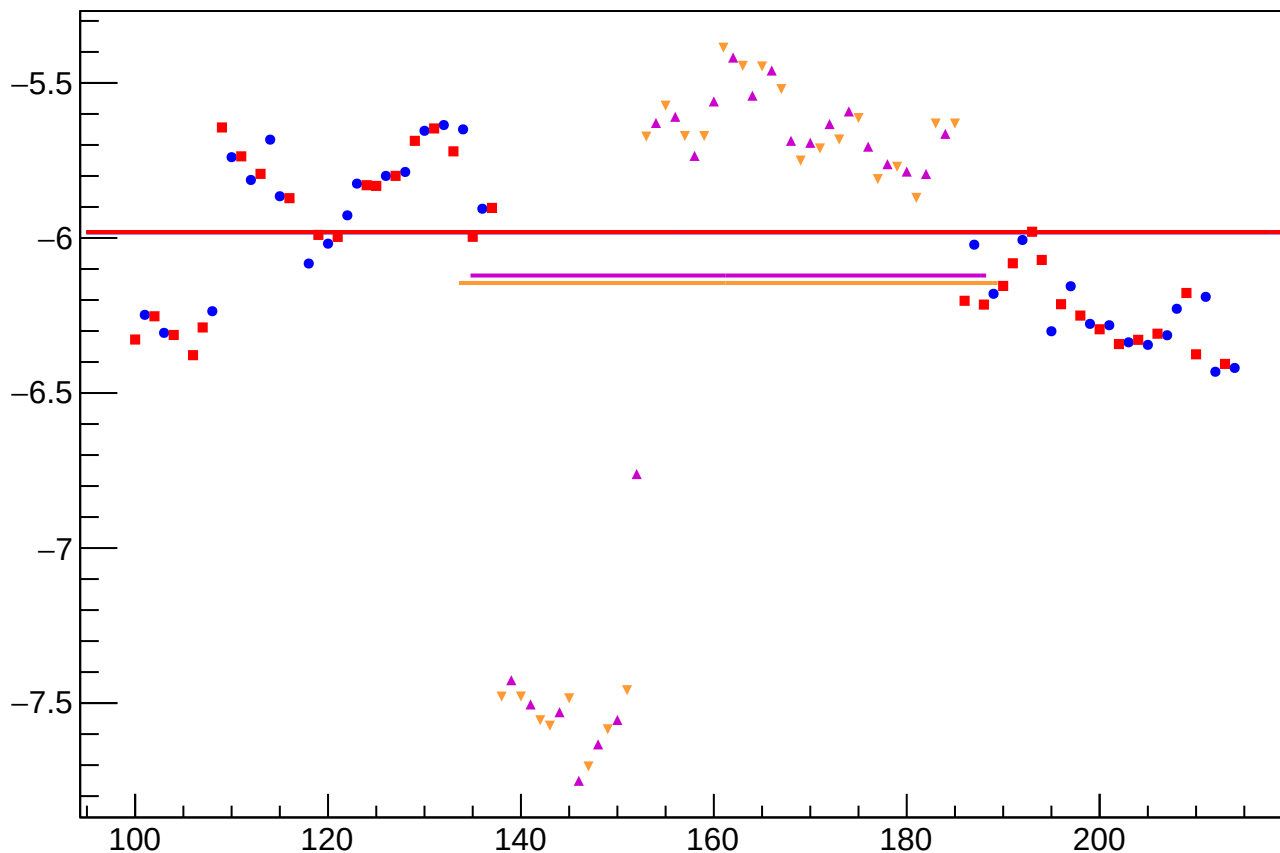
Right: 0.008+/-0.000 χ^2/NDF : 4281549.9/64

In: 0.007+/-0.000 χ^2/NDF :3309944.9/53

Out: 0.007+/-0.000 χ^2/NDF :3293178.5/58

All: 0.007+/-0.000 χ^2/NDF : 6613870.1/112

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.982+/-0.000 χ^2/NDF : 16831399164.2/30

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.981+/-0.000 χ^2/NDF : 17717423760.2/33

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

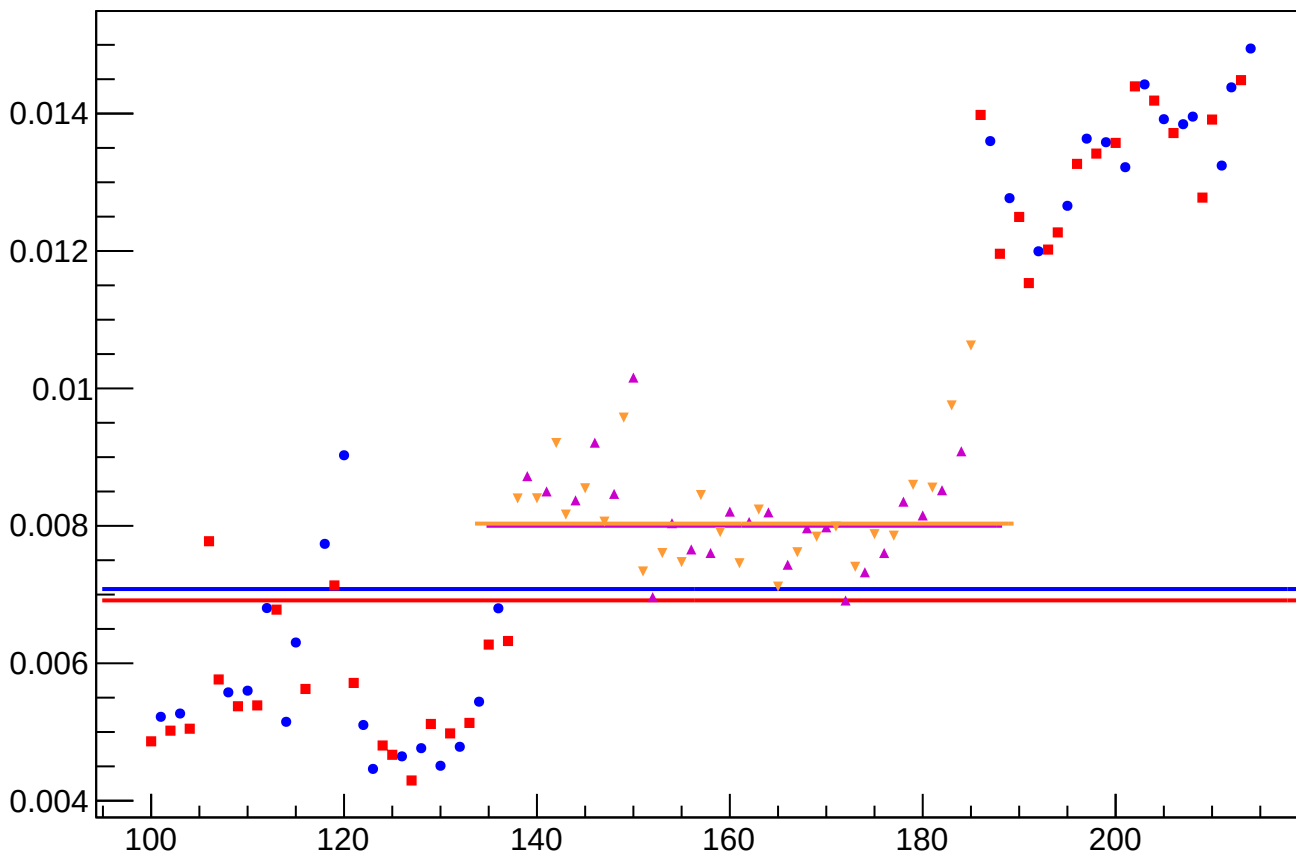
Right: -5.981+/-0.000 χ^2/NDF : 34549097438.5/64

In: -6.050+/-0.000 χ^2/NDF : 177567598672.0/53

Out: -6.059+/-0.000 χ^2/NDF : 206703483527.1/58

All: -6.055+/-0.000 χ^2/NDF : 384292406186.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5923905.1/30

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5796891.7/33

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

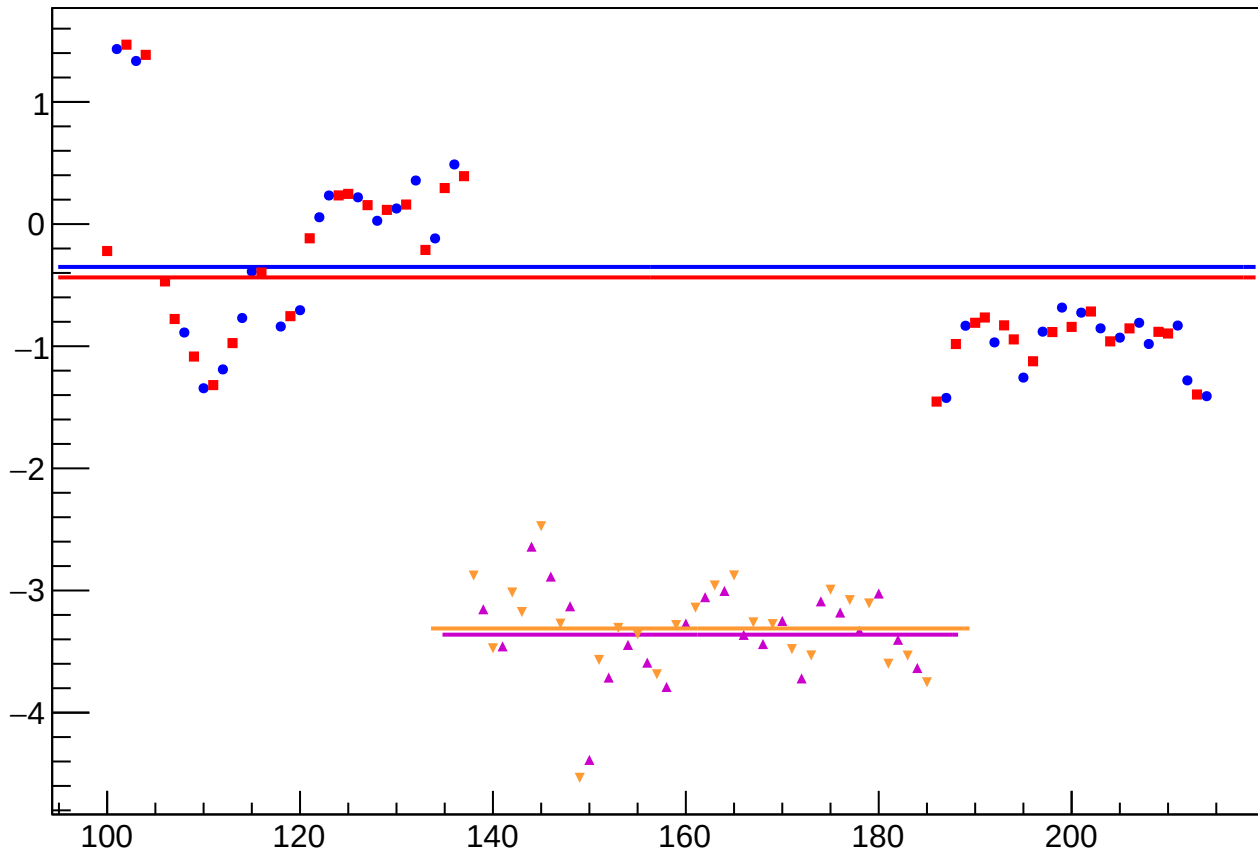
Right: 0.007+/-0.000 χ^2/NDF : 11728069.1/64

In: 0.008+/-0.000 χ^2/NDF :6357297.5/53

Out: 0.007+/-0.000 χ^2/NDF :6336890.5/58

All: 0.007+/-0.000 χ^2/NDF : 12697718.2/112

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.351 ± 0.000 $\chi^2/\text{NDF}: 35639864491.3/30$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.437 ± 0.000 $\chi^2/\text{NDF}: 34911855017.5/33$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

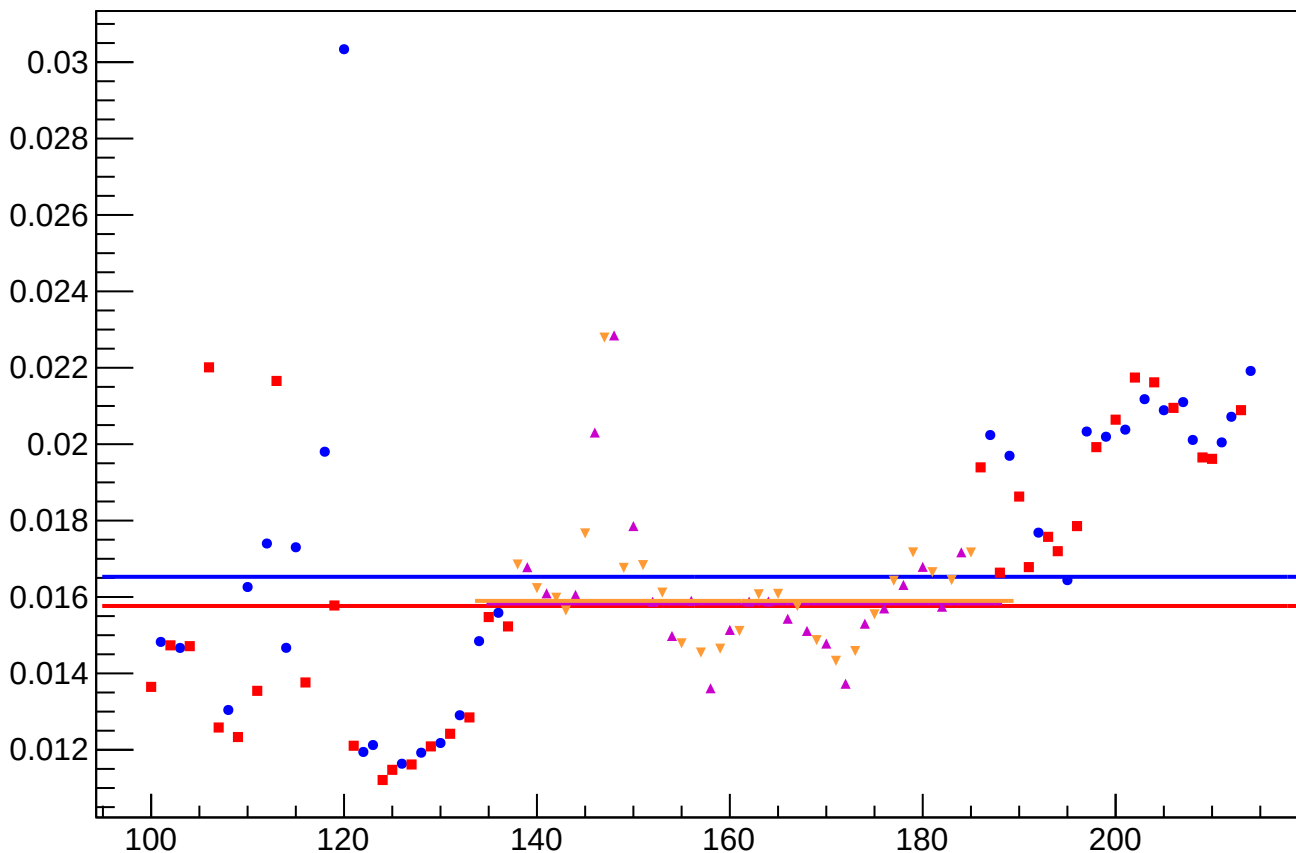
Right: -0.397 ± 0.000 $\chi^2/\text{NDF}: 70770185598.7/64$

In: -1.990 ± 0.000 $\chi^2/\text{NDF}: 317531197203.3/53$

Out: -1.941 ± 0.000 $\chi^2/\text{NDF}: 319609574441.2/58$

All: -1.964 ± 0.000 $\chi^2/\text{NDF}: 637290854200.5$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1480013.1/30

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1478469.8/33

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

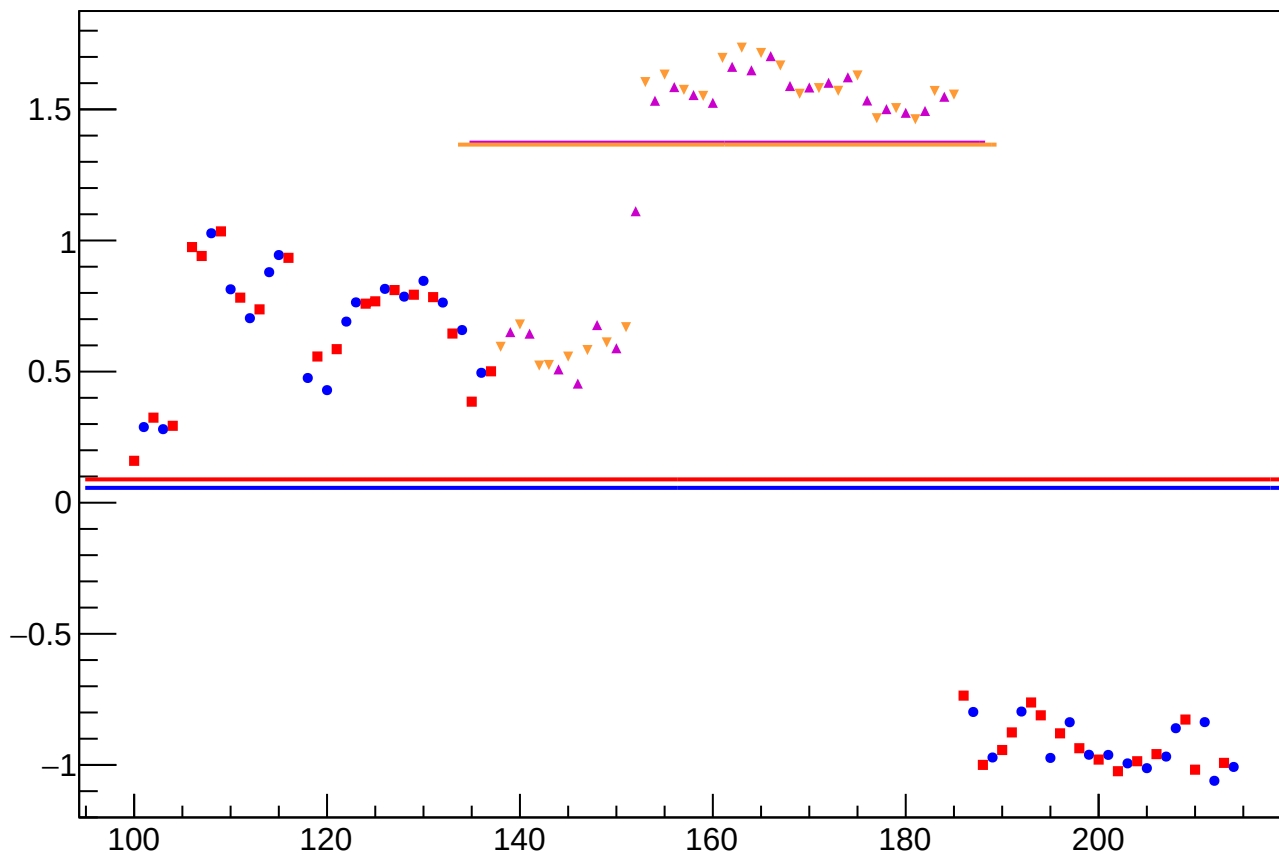
Right: 0.016+/-0.000 χ^2/NDF : 2993043.2/64

In: 0.016+/-0.000 χ^2/NDF :1848949.3/53

Out: 0.016+/-0.000 χ^2/NDF :1731570.4/58

All: 0.016+/-0.000 χ^2/NDF : 3593068.0/112

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.057+/-0.000

χ^2/NDF : 88411353635.6/30

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right Out: 0.089+/-0.000

χ^2/NDF : 96749521168.5/33

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.074+/-0.000

χ^2/NDF : 185243360104.6/64

In: 1.033+/-0.000

χ^2/NDF : 343240795015.2/53

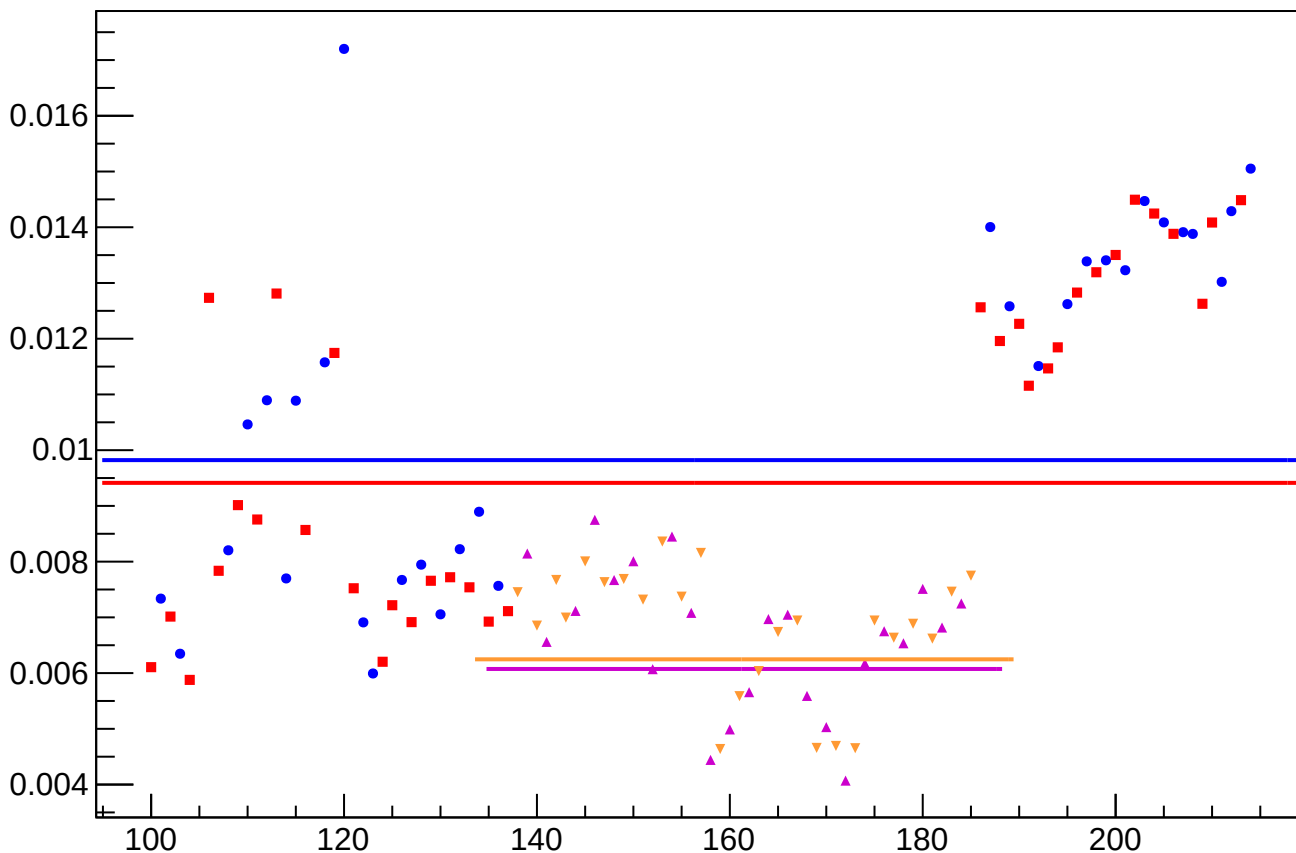
Out: 1.006+/-0.000

χ^2/NDF : 366993248785.5/58

All: 1.019+/-0.000

χ^2/NDF : 710446072560.7

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 2685305.5/30

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2741334.6/33

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

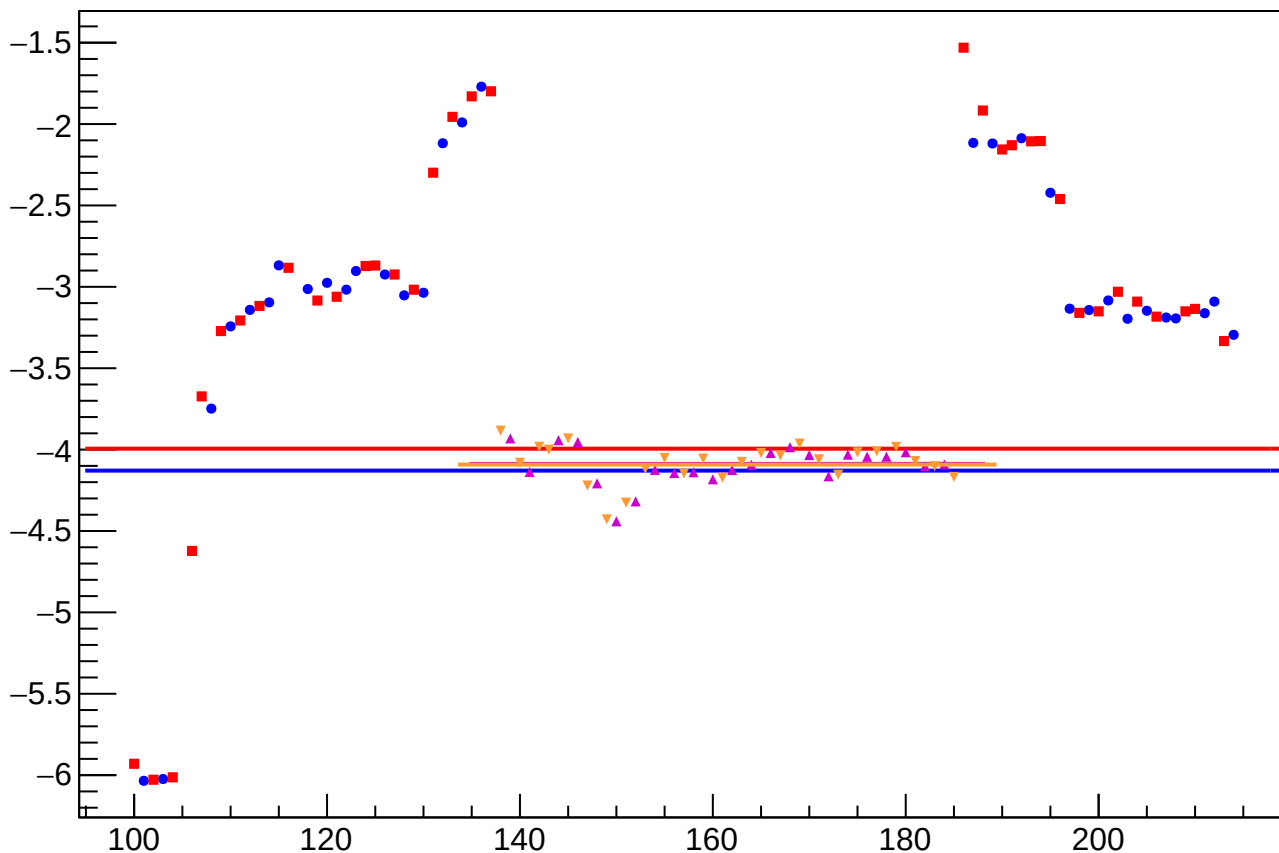
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 5452870.9/64

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7218899.9/53

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:6477567.3/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 13701889.9/112

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.129 ± 0.000 $\chi^2/\text{NDF}: 285520559198.0/30$

Left Out: -4.092 ± 0.000 $\chi^2/\text{NDF}: 39806766.7/24$

Right Out: -3.994 ± 0.000 $\chi^2/\text{NDF}: 275549758128.6/33$

Left In: -4.088 ± 0.000 $\chi^2/\text{NDF}: 34412880.7/22$

Left: -4.089 ± 0.000 $\chi^2/\text{NDF}: 74248792.8/47$

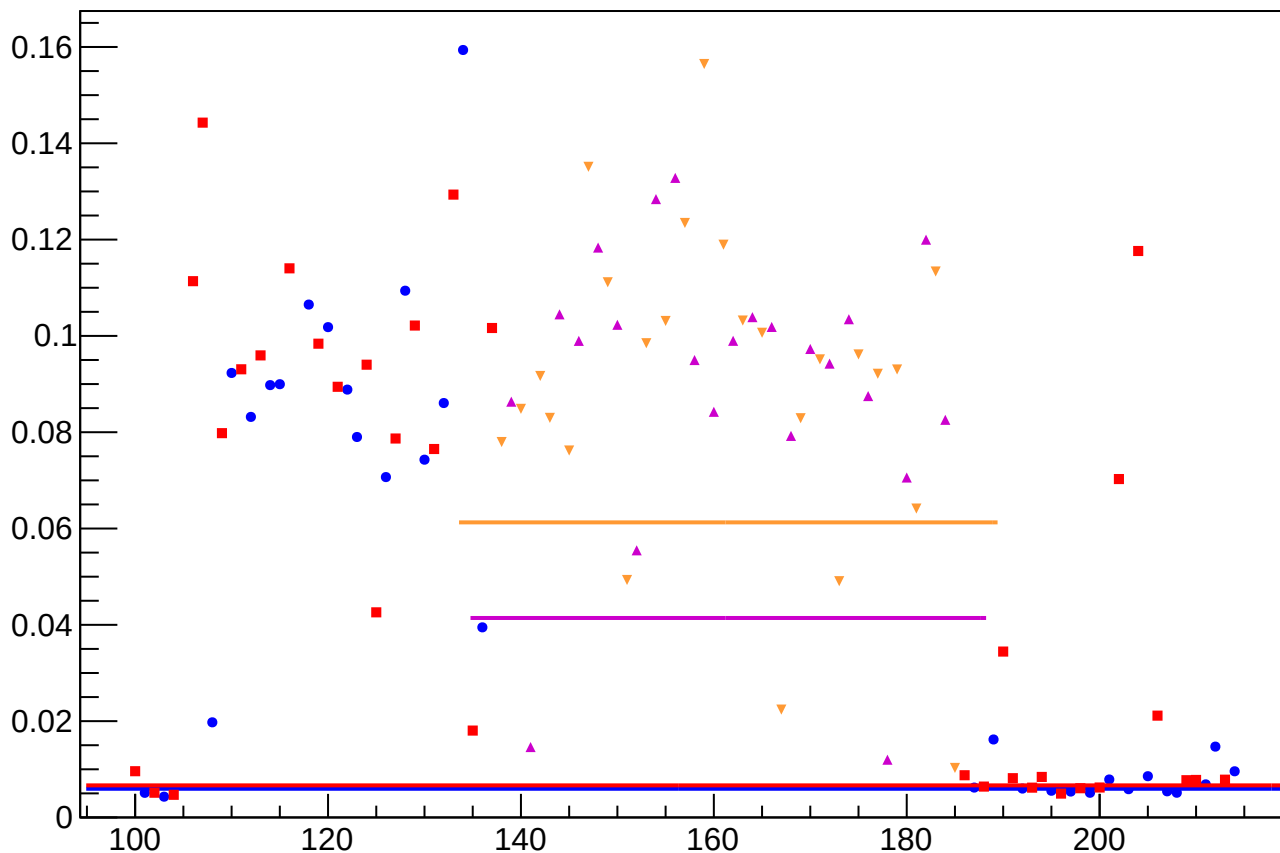
Right: -4.072 ± 0.000 $\chi^2/\text{NDF}: 561992613340.0/64$

In: -4.128 ± 0.000 $\chi^2/\text{NDF}: 285562015412.8/53$

Out: -3.997 ± 0.000 $\chi^2/\text{NDF}: 275616725384.8/58$

All: -4.072 ± 0.000 $\chi^2/\text{NDF}: 562069081047.1$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8234782.9/30

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10357194.1/33

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

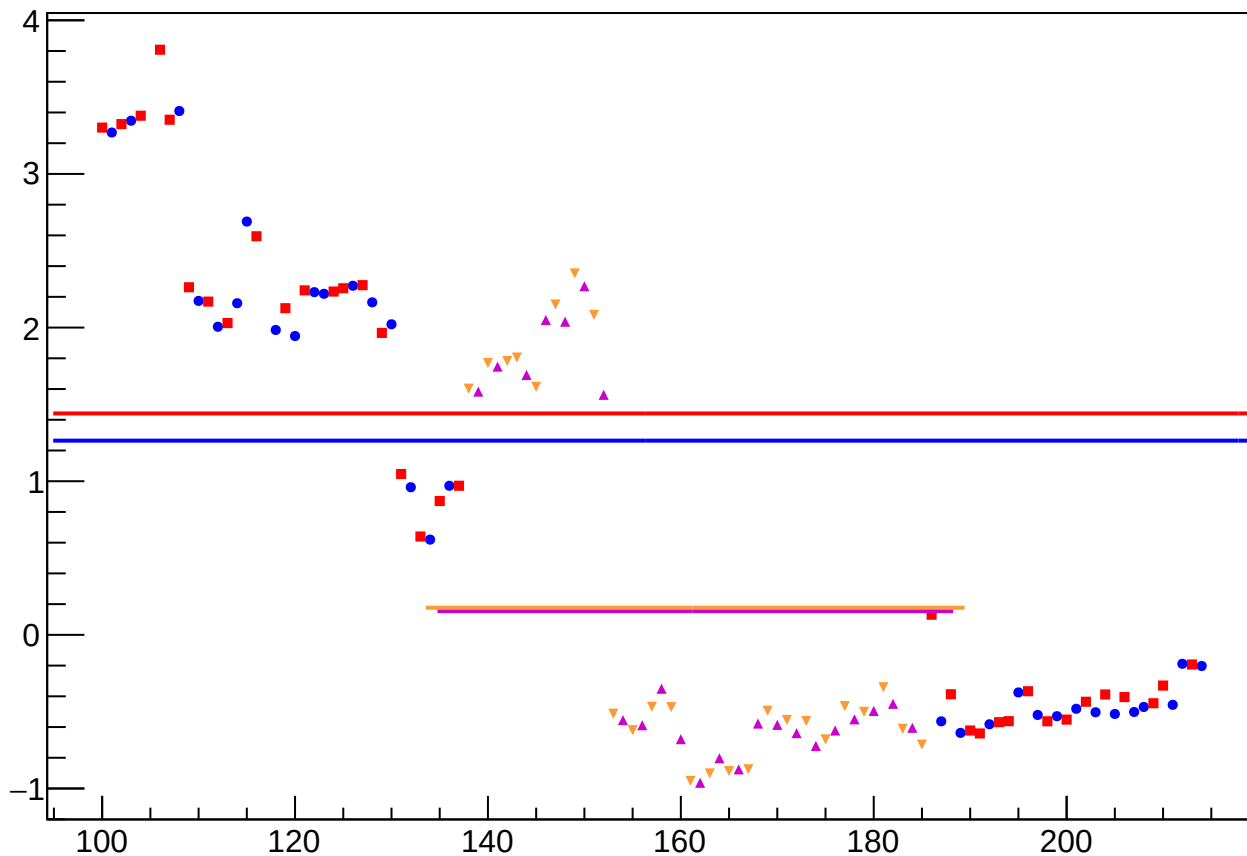
Right: 0.006+/-0.000 χ^2/NDF : 18642142.2/64

In: 0.007+/-0.000 χ^2/NDF :31715529.6/53

Out: 0.008+/-0.000 χ^2/NDF :35759157.4/58

All: 0.008+/-0.000 χ^2/NDF : 67635422.5/112

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.264 $\pm$ 0.000 χ^2 /NDF: 218459386326.1/30

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 1.441 $\pm$ 0.000 χ^2 /NDF: 185866200129.3/33

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000 χ^2 /NDF: 6439465655.5/47

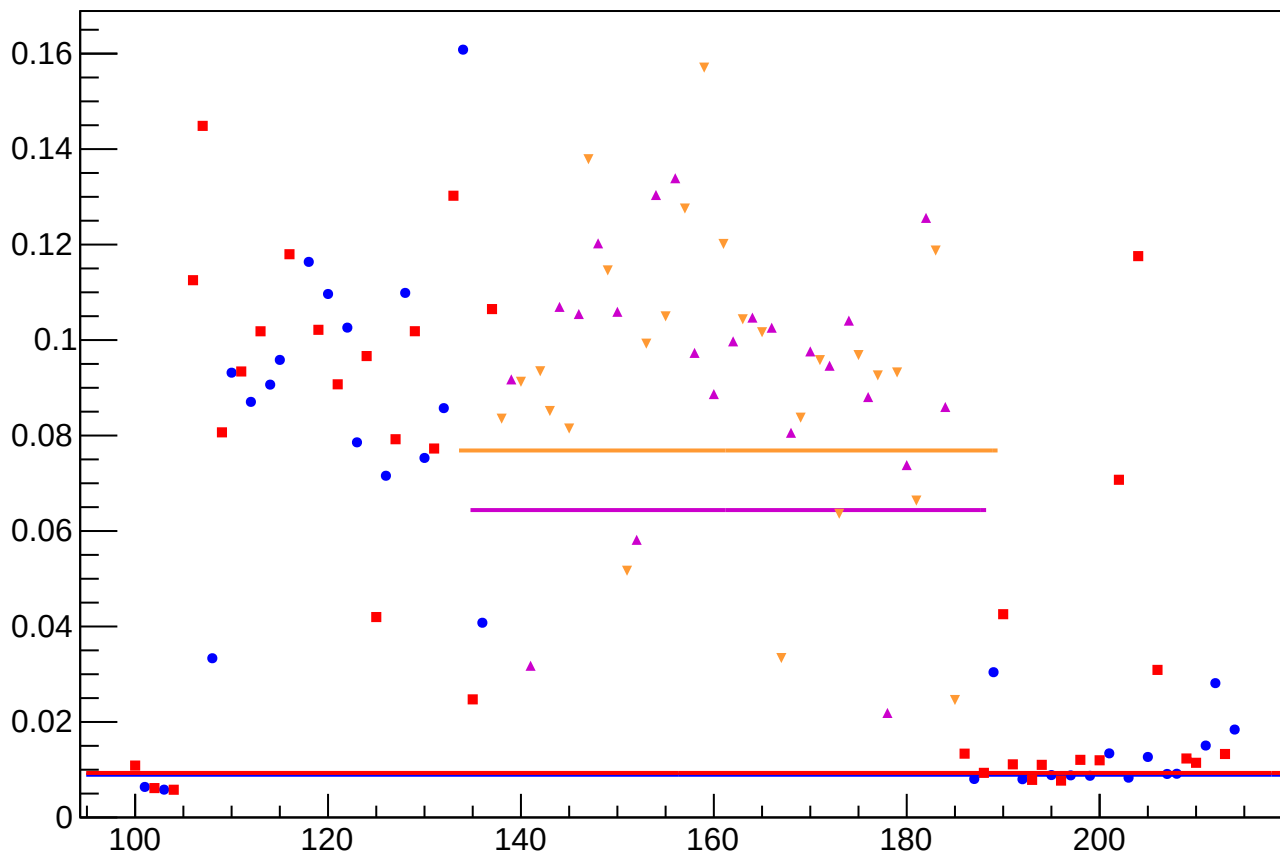
Right: 1.346 $\pm$ 0.000 χ^2 /NDF: 405213919854.4/64

In: 1.219 $\pm$ 0.000 χ^2 /NDF: 224671915545.2/53

Out: 1.389 $\pm$ 0.000 χ^2 /NDF: 192616900188.5/58

All: 1.298 $\pm$ 0.000 χ^2 /NDF: 418138317027.4

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8483260.8/30

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10383715.6/33

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

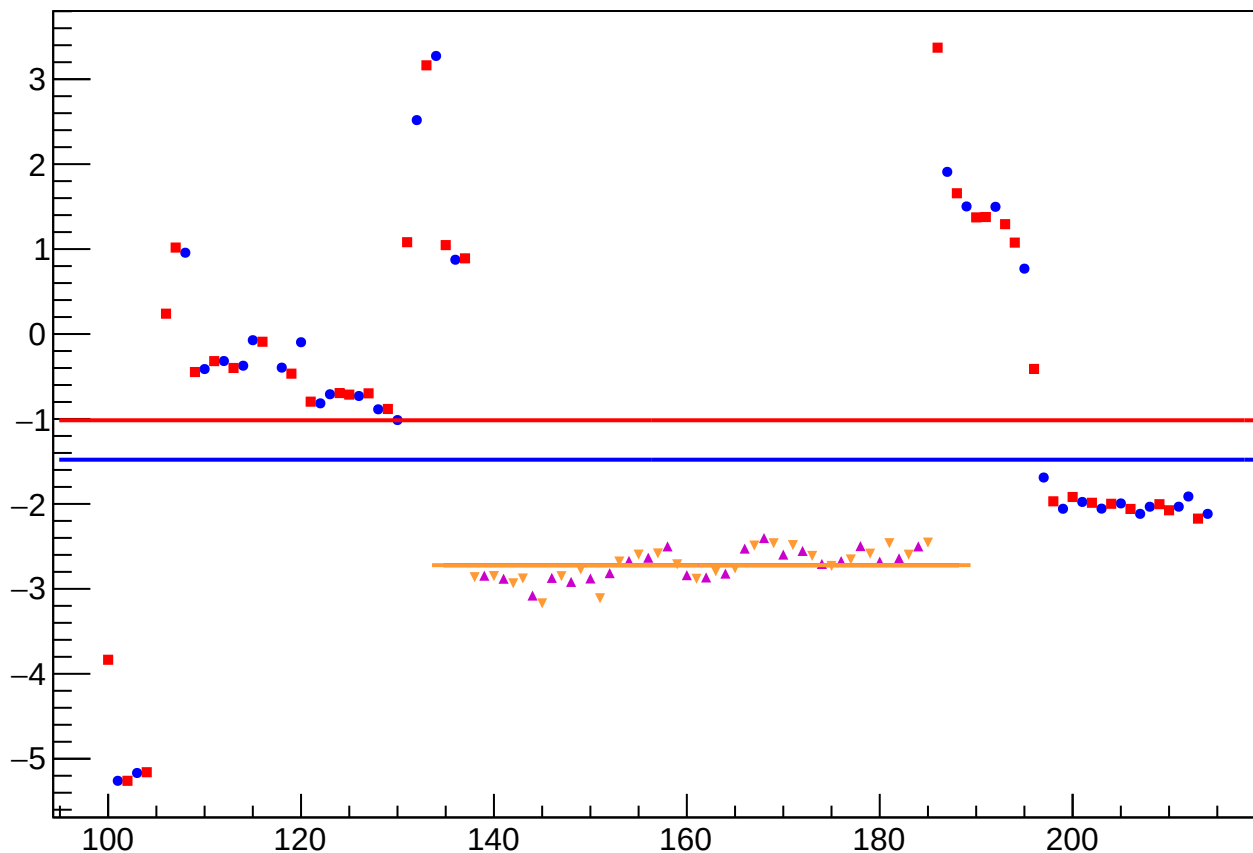
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 18875056.3/64

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30690301.6/53

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34433835.0/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65175462.4/112

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.479+/-0.000 χ^2/NDF : 207584022974.1/30

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.015+/-0.000 χ^2/NDF : 240855138227.2/33

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

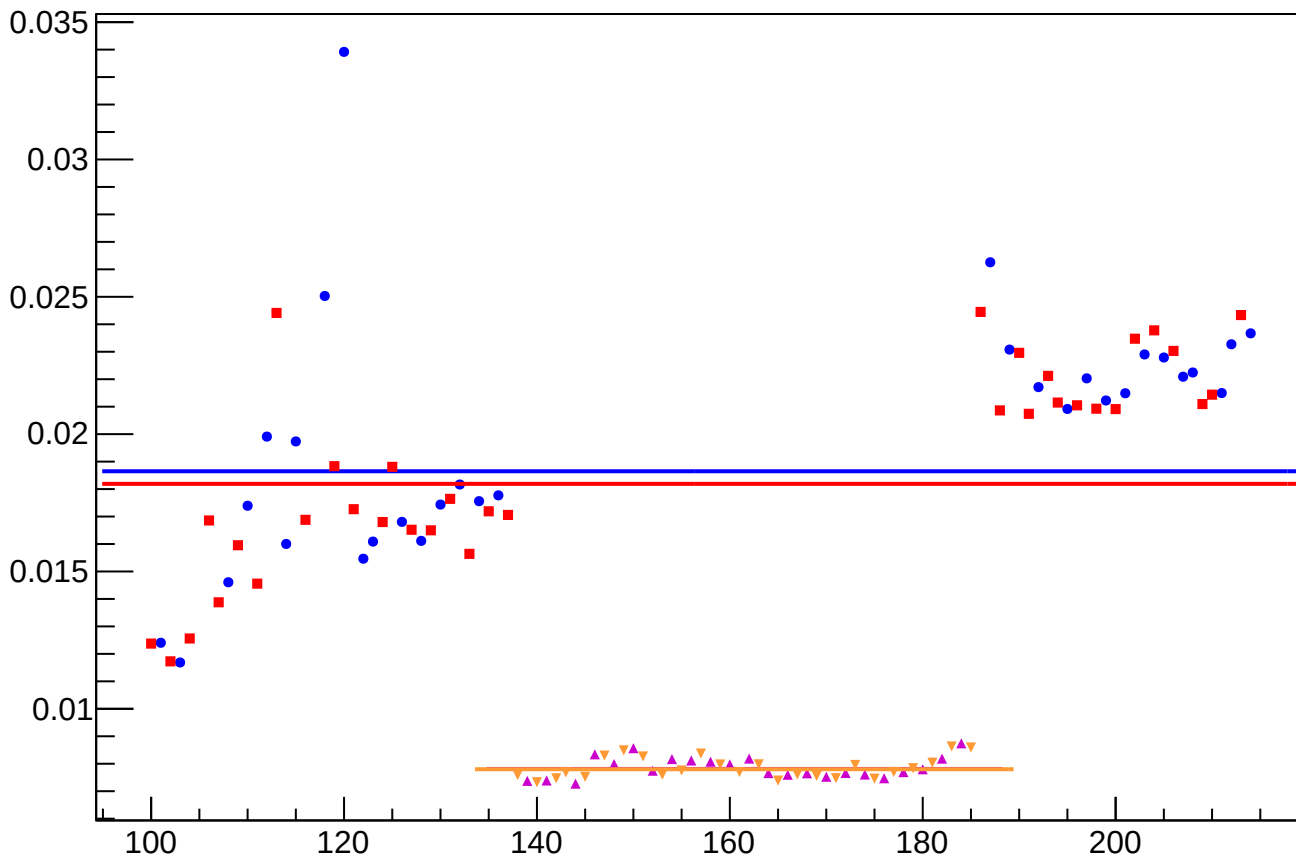
Right: -1.237+/-0.000 χ^2/NDF : 453245846918.0/64

In: -2.554+/-0.000 χ^2/NDF : 272716124103.7/53

Out: -2.485+/-0.000 χ^2/NDF : 368529913061.0/58

All: -2.519+/-0.000 χ^2/NDF : 642033475129.1

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1511768.6/30

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1395733.2/33

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

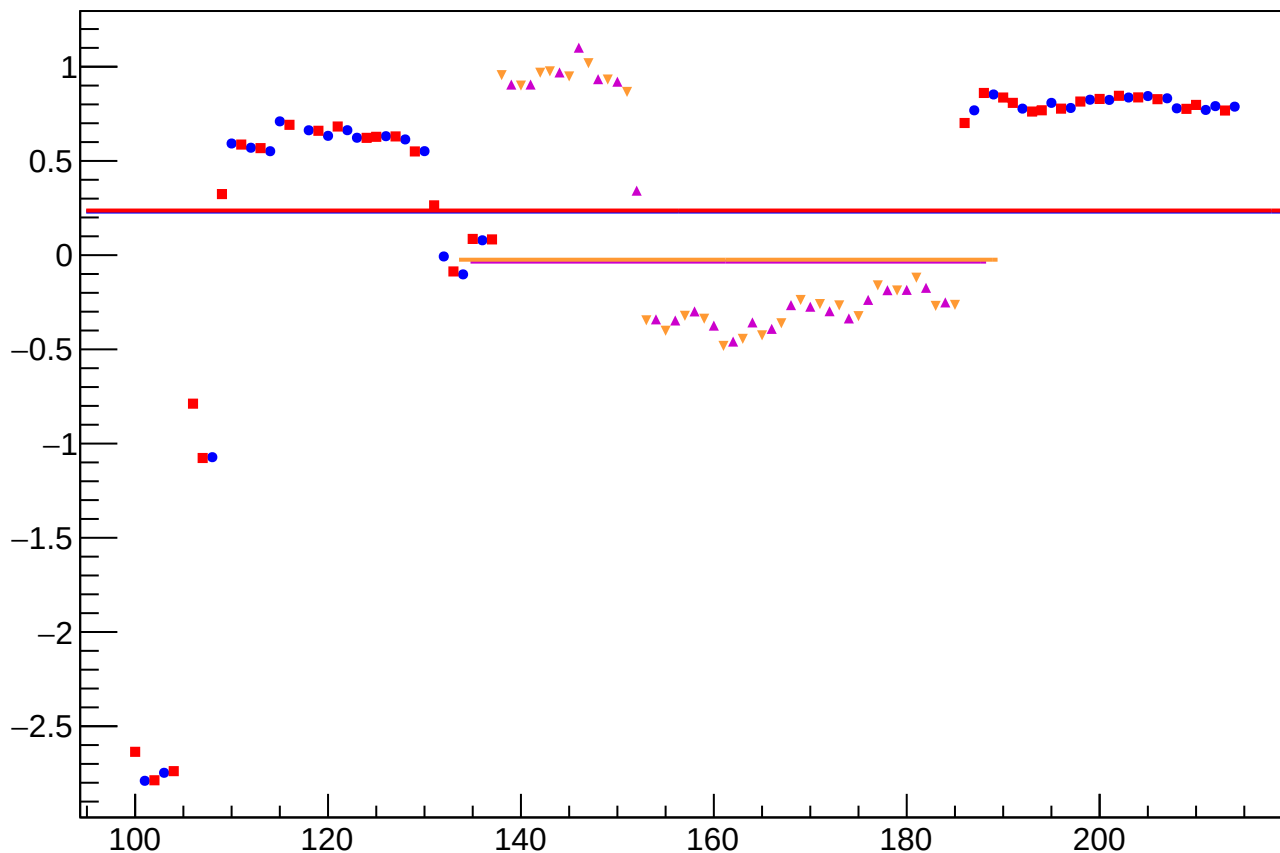
Right: 0.018+/-0.000 χ^2/NDF : 2916908.9/64

In: 0.009+/-0.000 χ^2/NDF : 10252153.1/53

Out: 0.009+/-0.000 χ^2/NDF : 10167466.4/58

All: 0.009+/-0.000 χ^2/NDF : 20419972.3/112

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.231+/-0.000

χ^2/NDF : 894642075941.8/30

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.234+/-0.000

χ^2/NDF : 1844552813310.0/64

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.137+/-0.000

χ^2/NDF : 1029715893092.4/53

Right Out: 0.237+/-0.000

χ^2/NDF : 949897077042.2/33

Out: 0.147+/-0.000

χ^2/NDF : 1106907492479.7/58

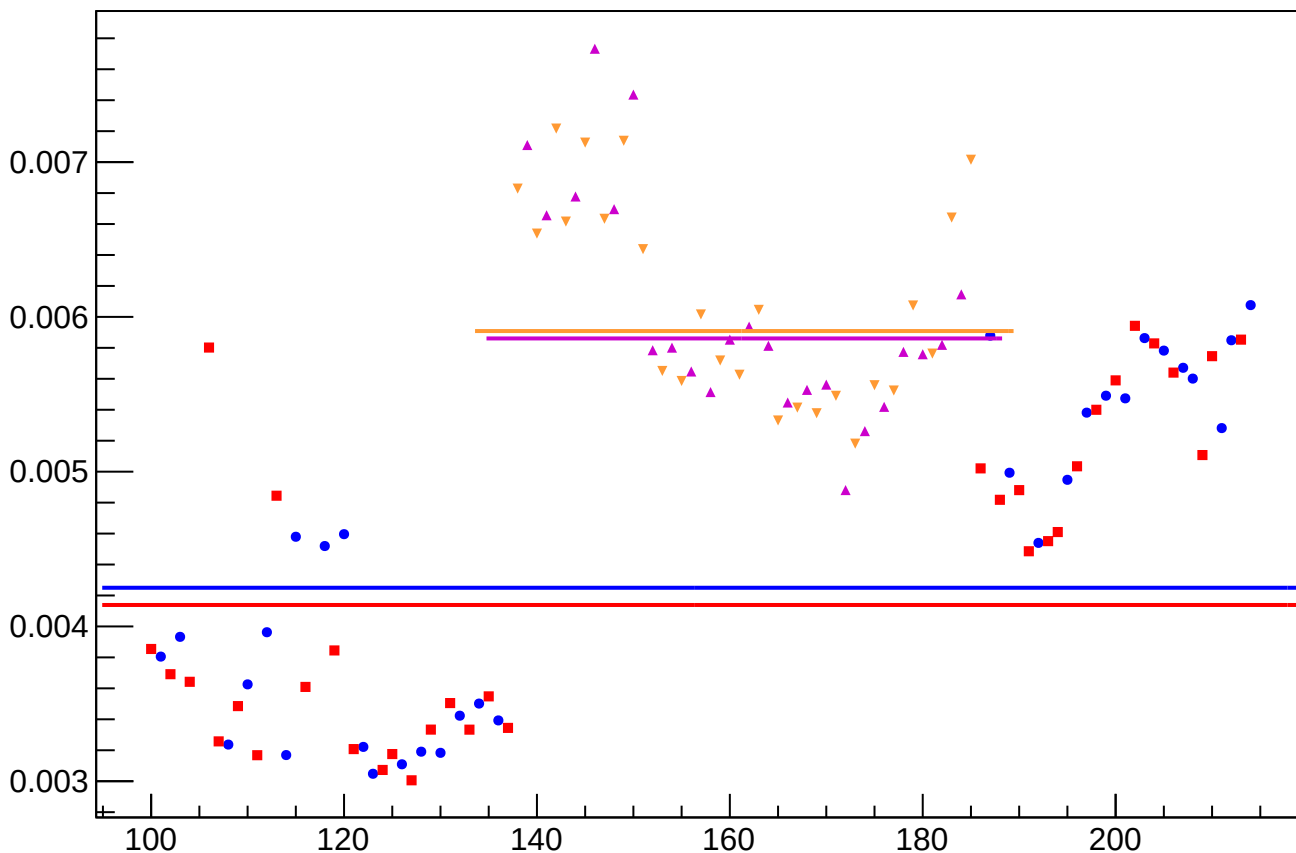
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.142+/-0.000

χ^2/NDF : 2136694659669.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1725749.2/30

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1676173.9/33

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

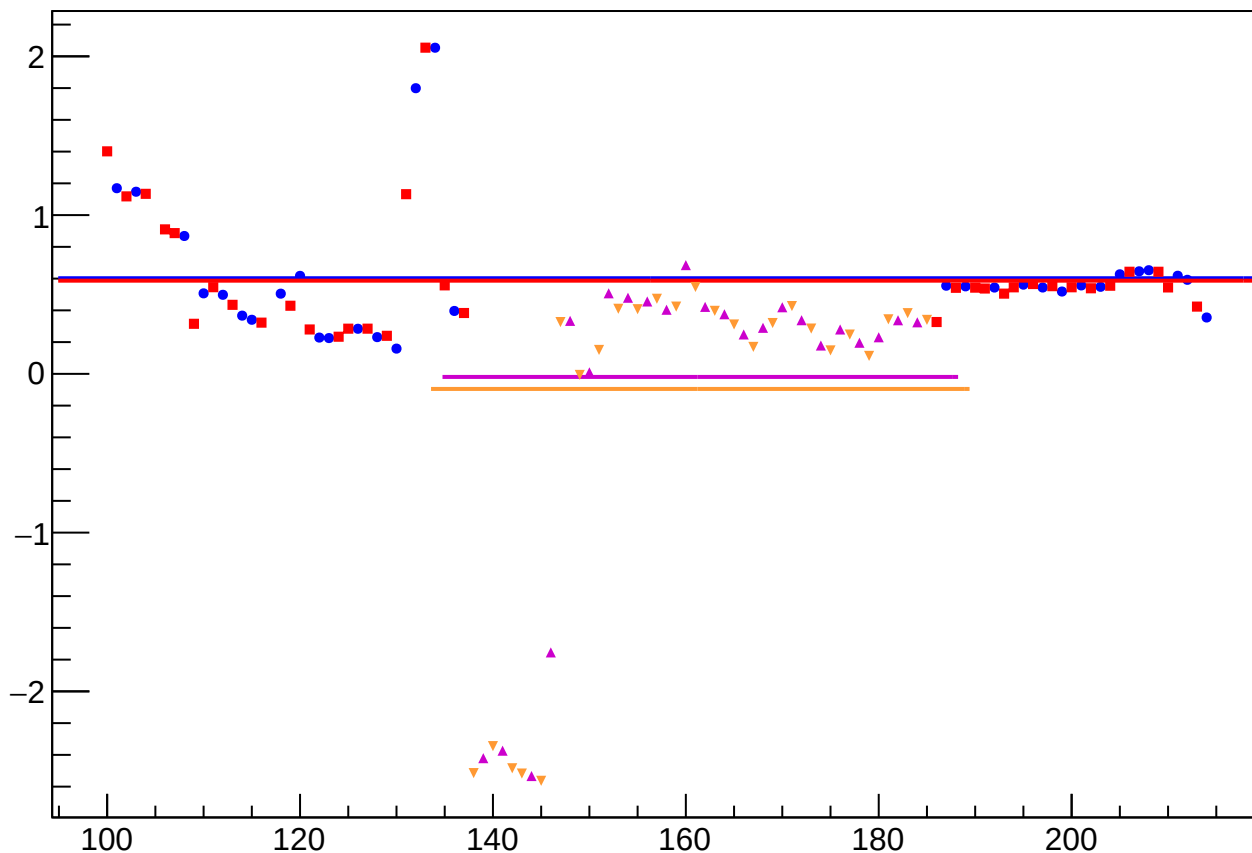
Right: 0.004+/-0.000 χ^2/NDF : 3412800.3/64

In: 0.005+/-0.000 χ^2/NDF :3645993.6/53

Out: 0.005+/-0.000 χ^2/NDF :3973363.6/58

All: 0.005+/-0.000 χ^2/NDF : 7627029.2/112

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.602+/-0.000 χ^2/NDF : 43565564909.0/30

Left Out: -0.095+/-0.000 χ^2/NDF : 505606573631.9/24

Right Out: 0.587+/-0.000 χ^2/NDF : 47631291176.9/33

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

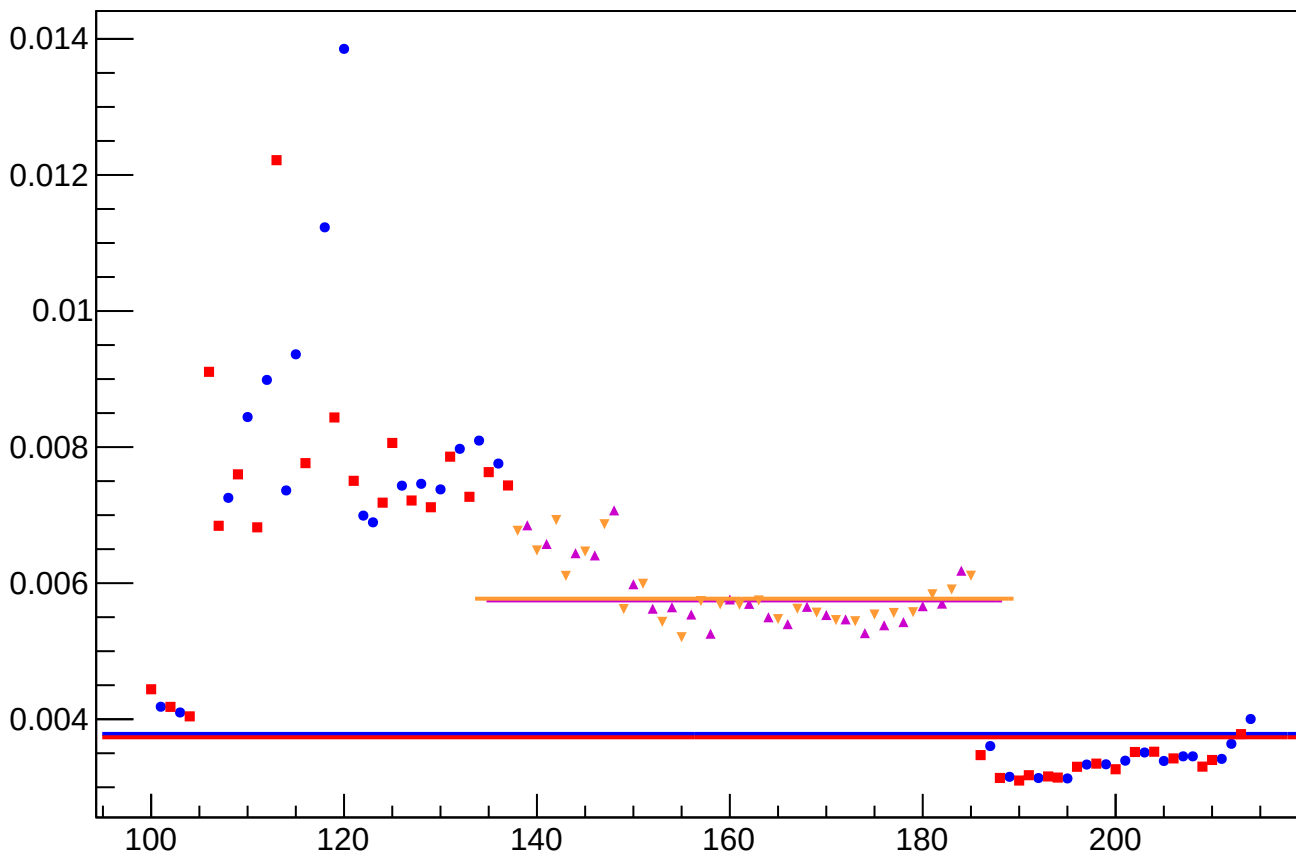
Right: 0.594+/-0.000 χ^2/NDF : 91314361189.4/64

In: 0.394+/-0.000 χ^2/NDF : 587325079562.8/53

Out: 0.362+/-0.000 χ^2/NDF : 713872192598.8/58

All: 0.377+/-0.000 χ^2/NDF : 1301946087588.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3150008.4/30

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3193455.4/33

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

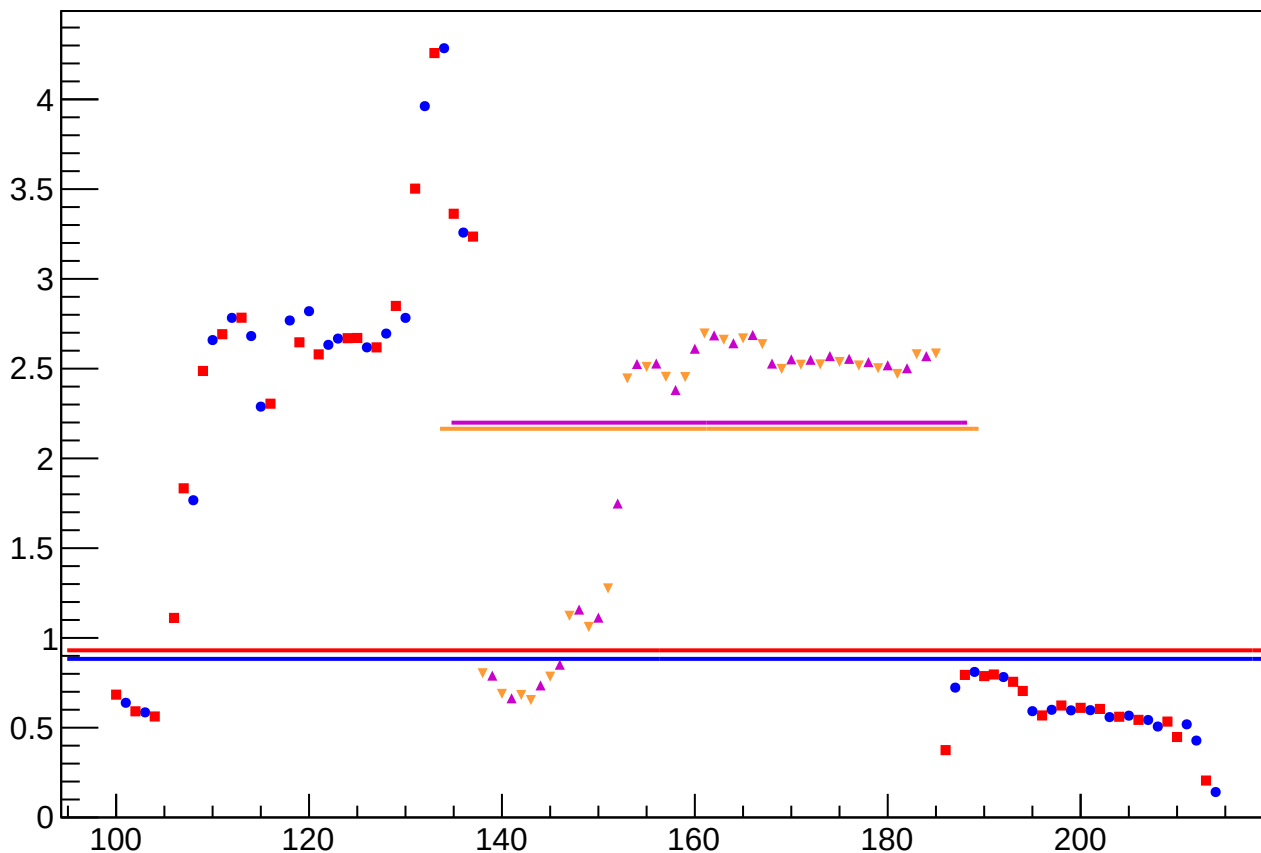
Right: 0.004+/-0.000 χ^2/NDF : 6345958.0/64

In: 0.004+/-0.000 χ^2/NDF :5878579.4/53

Out: 0.004+/-0.000 χ^2/NDF :6238946.7/58

All: 0.004+/-0.000 χ^2/NDF : 12119556.8/112

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.883 $\pm$ 0.000 χ^2 /NDF: 318837974513.4/30

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 363286686893.6/33

Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

Left: 2.182 $\pm$ 0.000 χ^2 /NDF: 546302258971.9/47

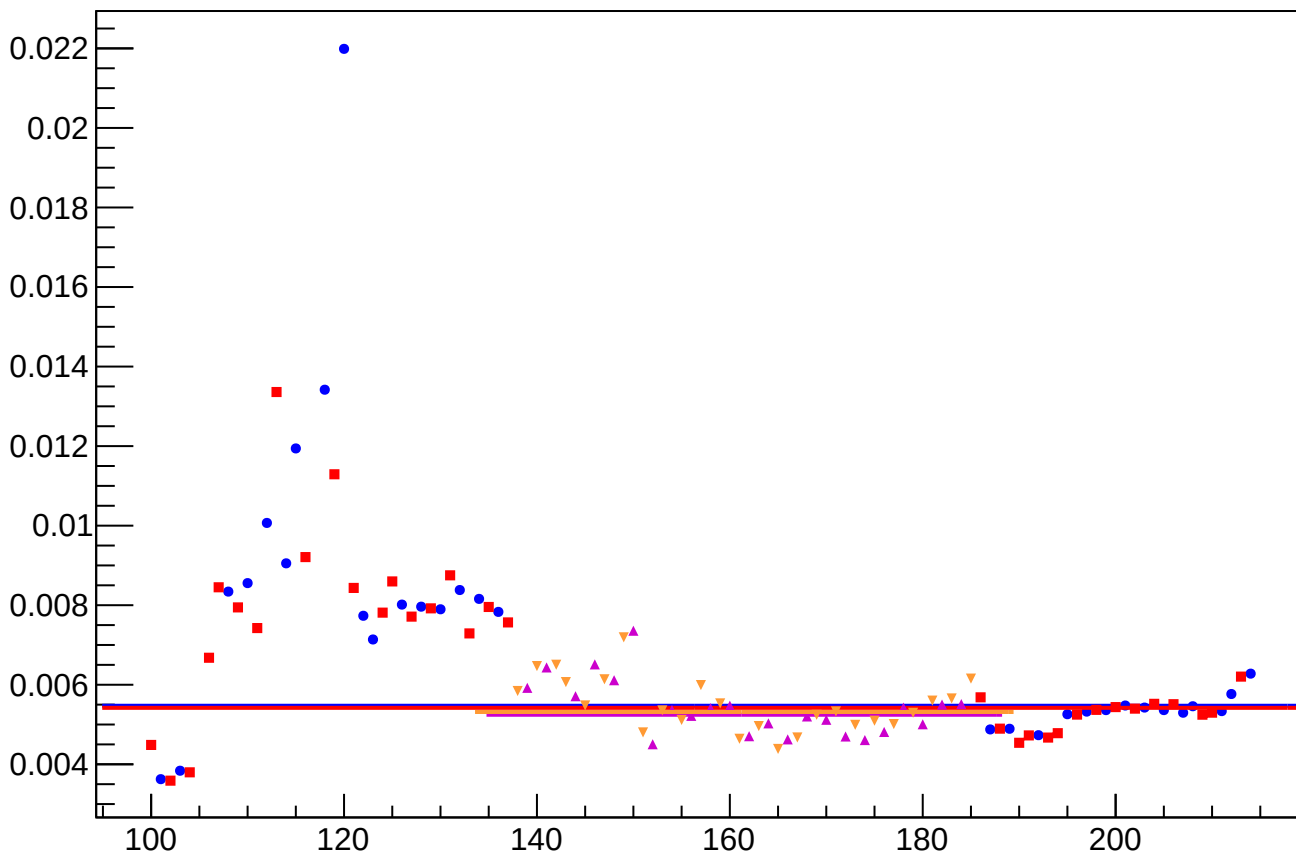
Right: 0.908 $\pm$ 0.000 χ^2 /NDF: 682688041883.6/64

In: 1.597 $\pm$ 0.000 χ^2 /NDF: 1025210135088.3/53

Out: 1.589 $\pm$ 0.000 χ^2 /NDF: 1073816268679.6/58

All: 1.593 $\pm$ 0.000 χ^2 /NDF: 2099066019494.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2037241.2/30

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1903128.6/33

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

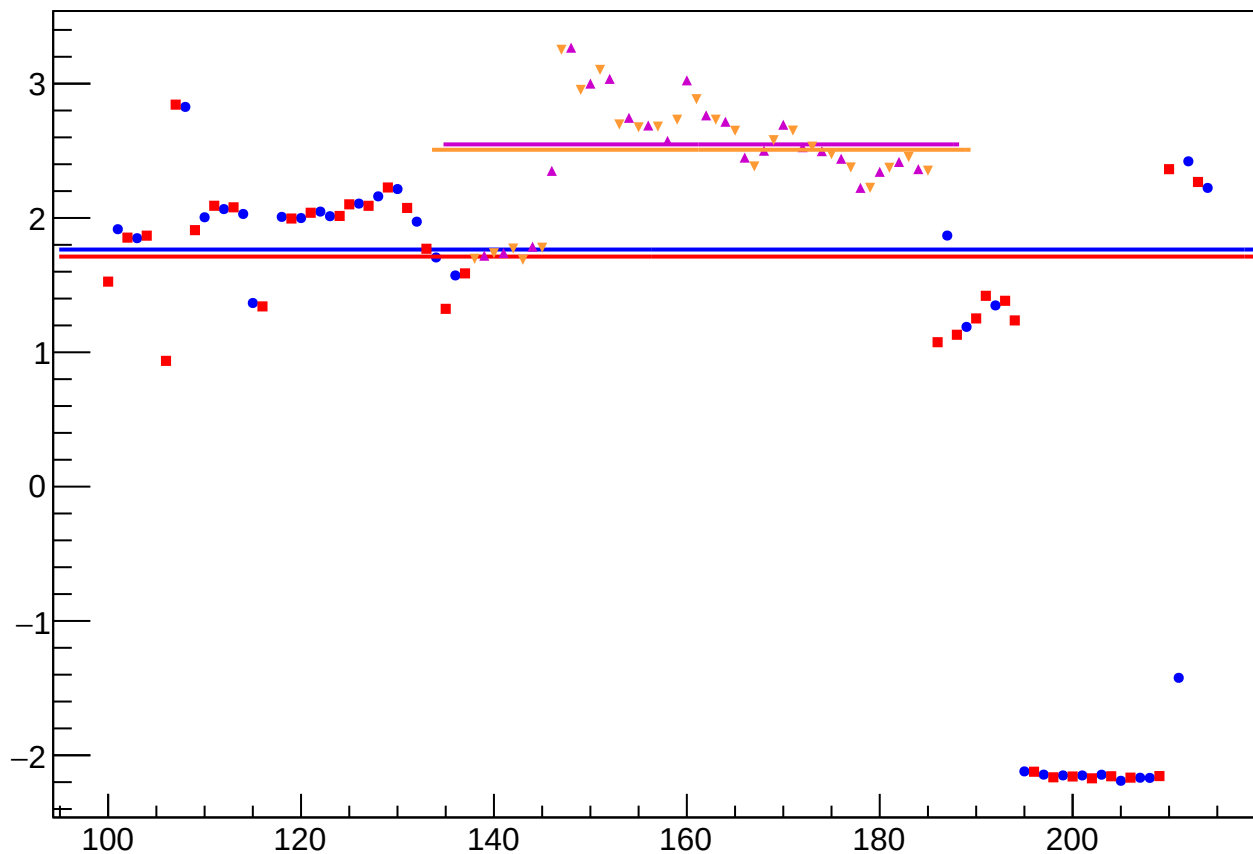
Right: 0.005+/-0.000 χ^2/NDF : 3941731.4/64

In: 0.005+/-0.000 χ^2/NDF :2489920.7/53

Out: 0.005+/-0.000 χ^2/NDF :2307894.3/58

All: 0.005+/-0.000 χ^2/NDF : 4798054.6/112

yield_bpm0l06X_mean vs Slug, Sign Corrected



Left: 2.527 $\pm$ 0.000 χ^2/NDF : 97963993742.3/47

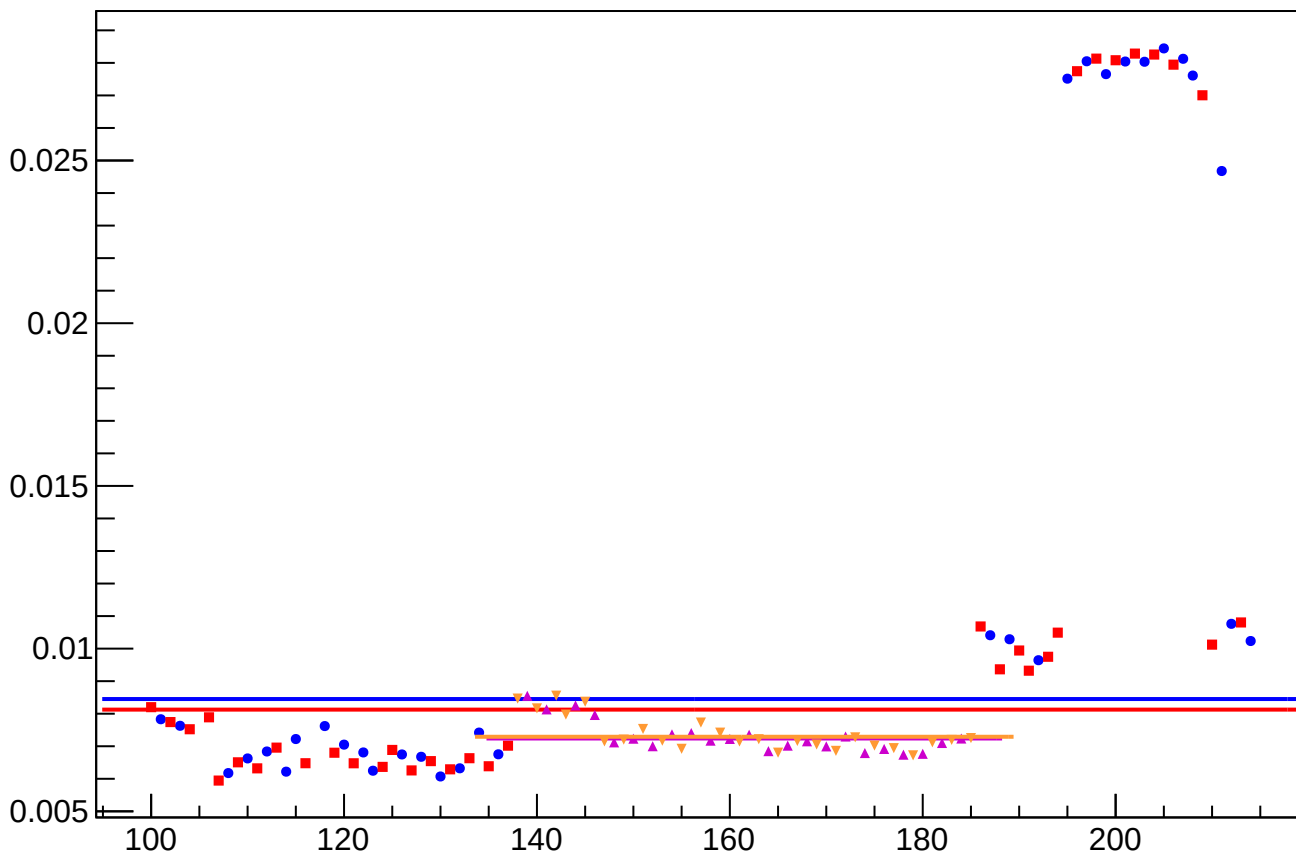
Right: 1.737 $\pm$ 0.000 χ^2/NDF : 305959895364.2/64

In: 2.270 $\pm$ 0.000 χ^2/NDF : 276041482363.9/53

Out: 2.203 $\pm$ 0.000 χ^2/NDF : 275729278018.0/58

All: 2.235 $\pm$ 0.000 χ^2/NDF : 552931338888.4

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7632771.6/30

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6397949.2/33

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

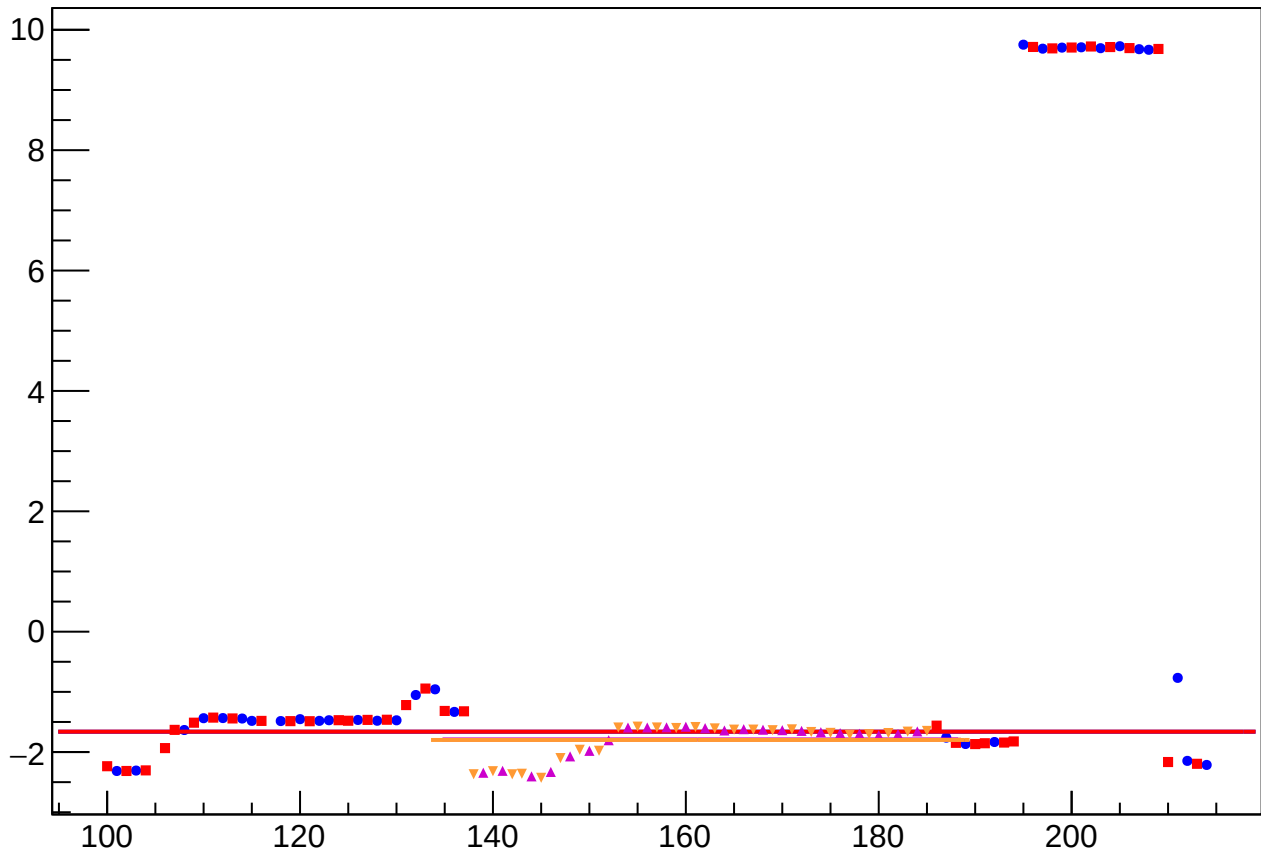
Right: 0.008+/-0.000 χ^2/NDF : 14050566.3/64

In: 0.008+/-0.000 χ^2/NDF :8088172.2/53

Out: 0.008+/-0.000 χ^2/NDF :6713843.1/58

All: 0.008+/-0.000 χ^2/NDF : 14803646.3/112

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.662+/-0.000 χ^2/NDF : 388029814908.4/30

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.661+/-0.000 χ^2/NDF : 365011907264.5/33

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

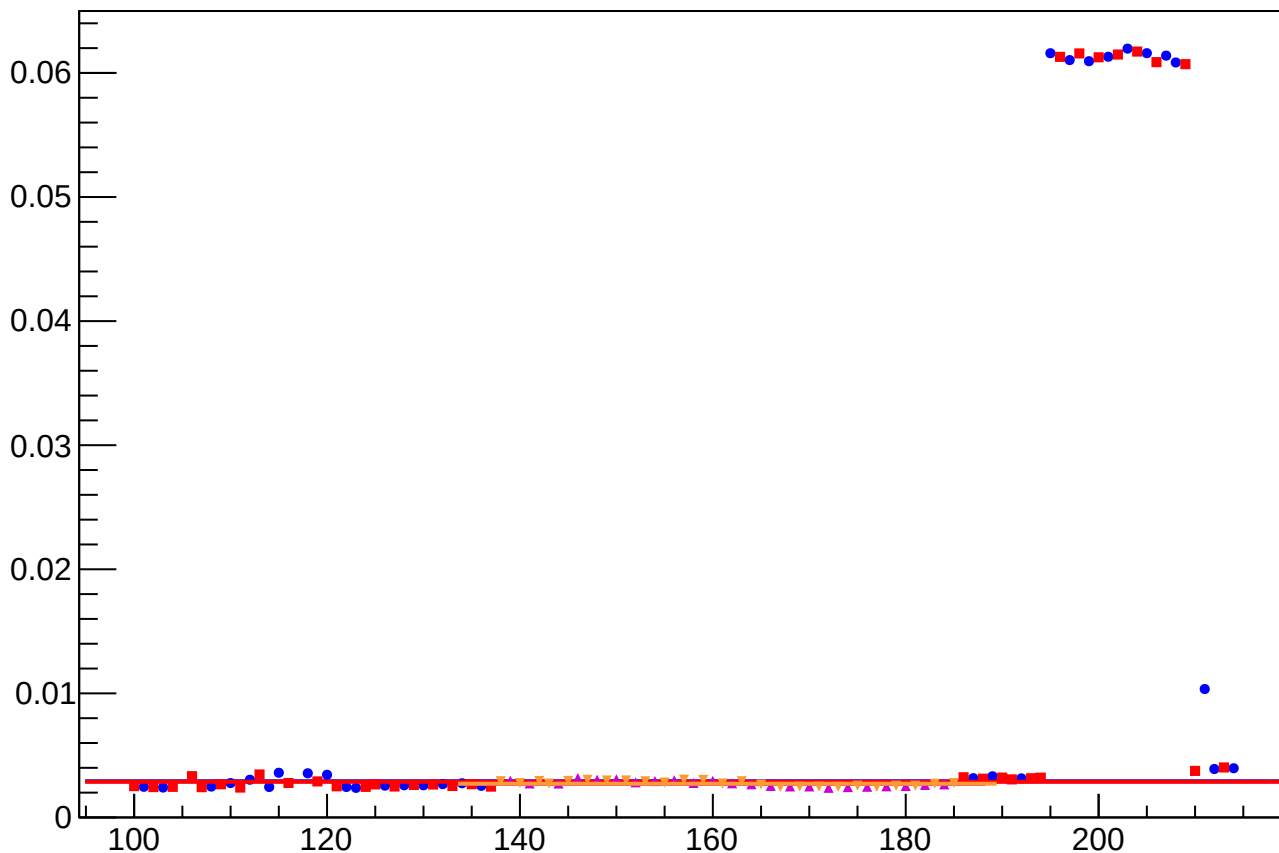
Right: -1.662+/-0.000 χ^2/NDF : 753042611855.7/64

In: -1.747+/-0.000 χ^2/NDF : 560111592265.8/53

Out: -1.748+/-0.000 χ^2/NDF : 566928920908.3/58

All: -1.748+/-0.000 χ^2/NDF : 1127041566735

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 11972198.4/30

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10117997.4/33

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

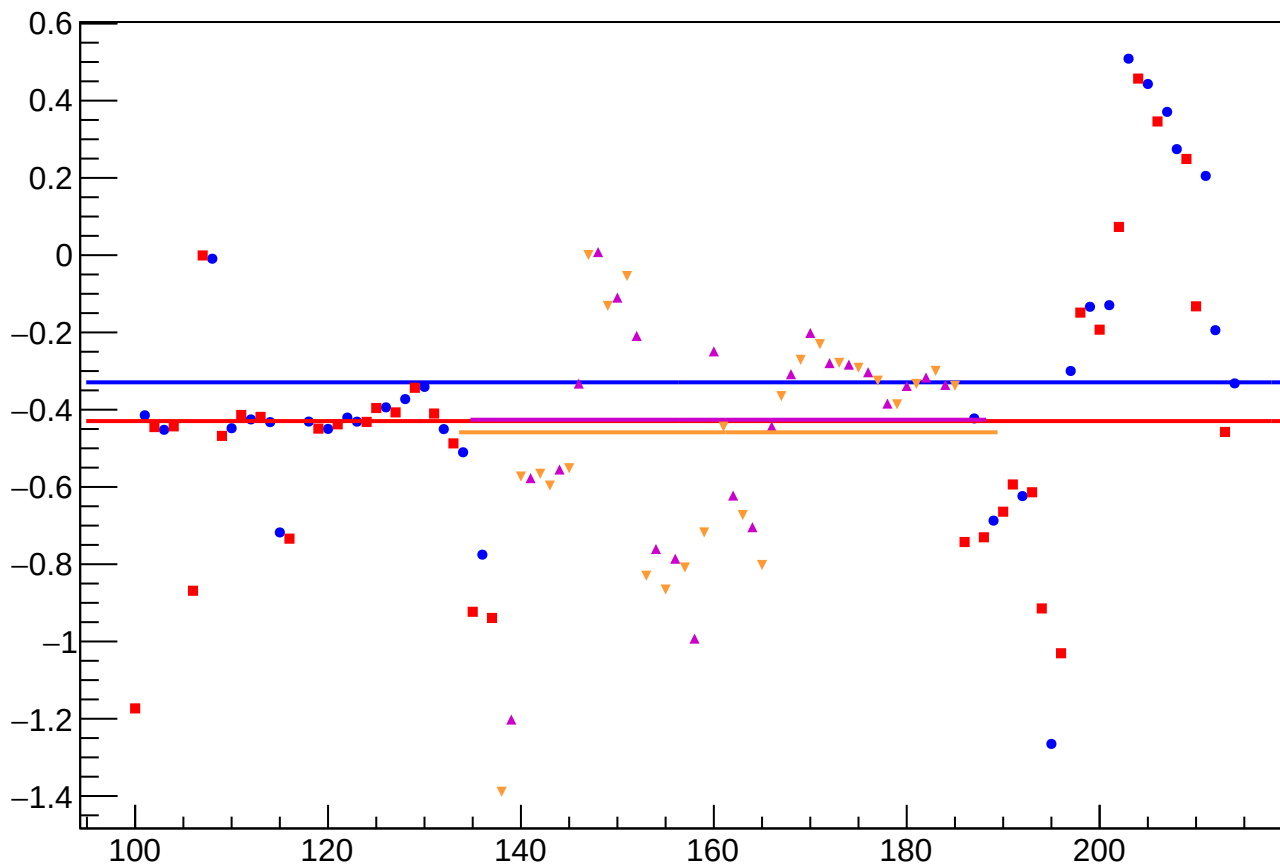
Right: 0.003+/-0.000 χ^2/NDF : 22092316.5/64

In: 0.003+/-0.000 χ^2/NDF :12263181.0/53

Out: 0.003+/-0.000 χ^2/NDF :10360711.3/58

All: 0.003+/-0.000 χ^2/NDF : 22623925.2/112

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.329 ± 0.000 $\chi^2/\text{NDF}: 10813834940.8/30$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.429 ± 0.000 $\chi^2/\text{NDF}: 10158243554.2/33$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

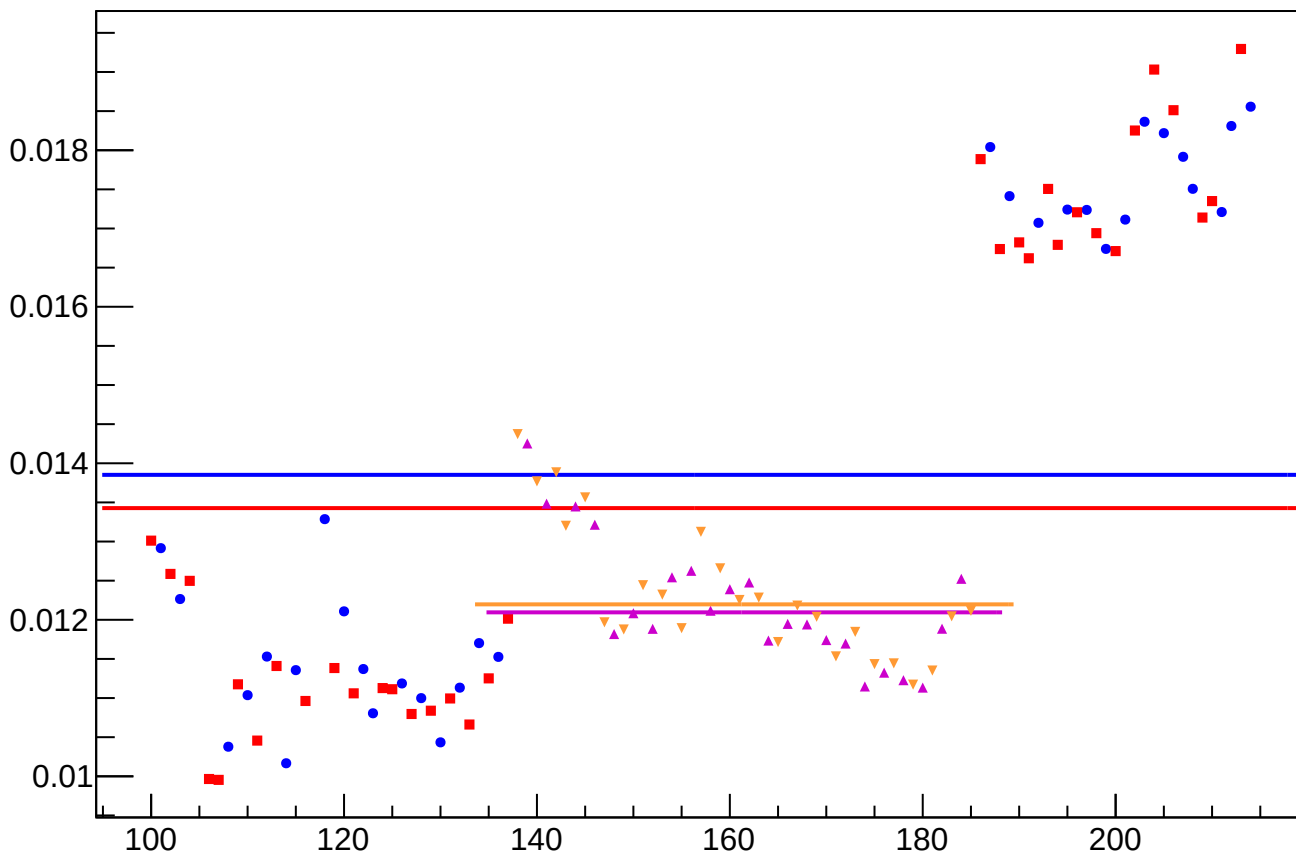
Right: -0.382 ± 0.000 $\chi^2/\text{NDF}: 21397322450.8/64$

In: -0.386 ± 0.000 $\chi^2/\text{NDF}: 19680188745.3/53$

Out: -0.446 ± 0.000 $\chi^2/\text{NDF}: 20117345563.7/58$

All: -0.417 ± 0.000 $\chi^2/\text{NDF}: 40162265794.4/111$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1520103.3/30

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1757165.4/33

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

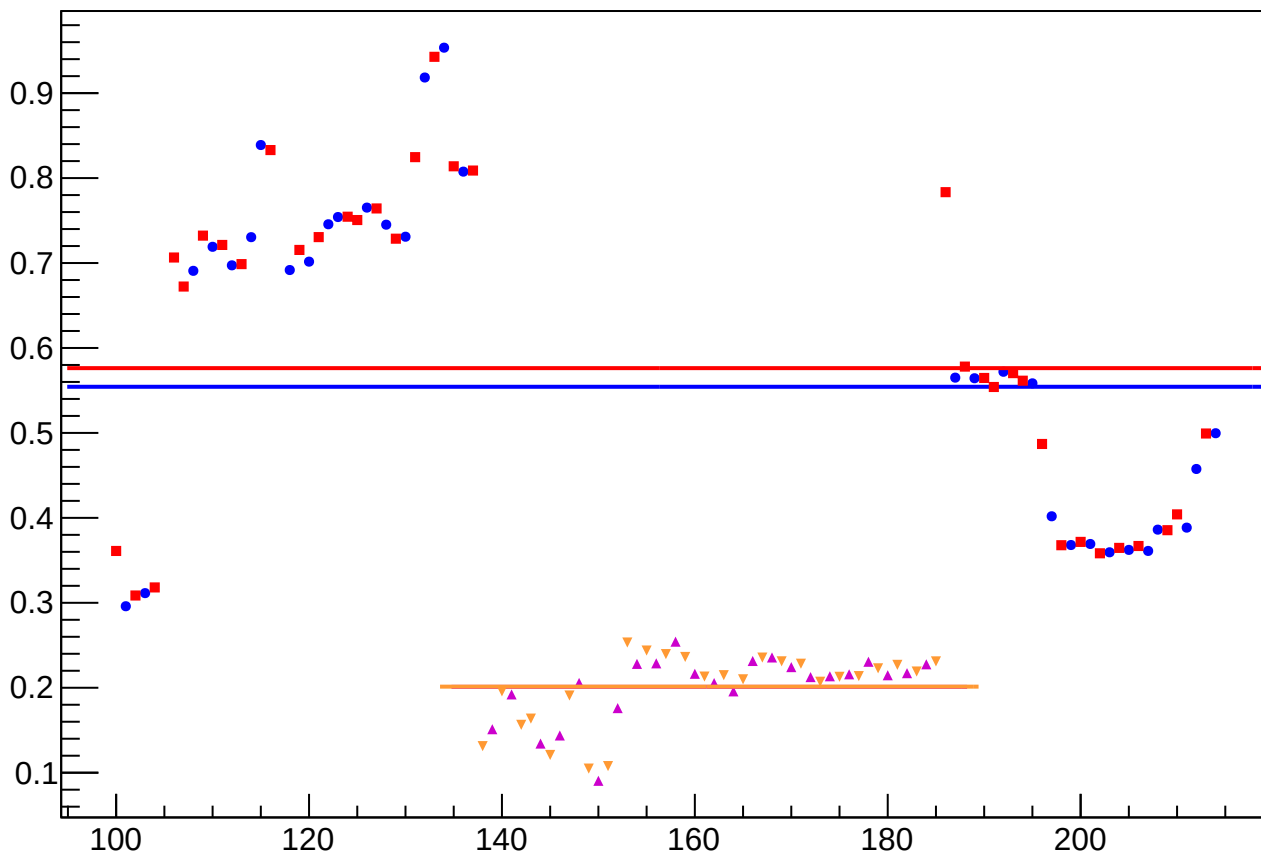
Right: 0.014+/-0.000 χ^2/NDF : 3292527.5/64

In: 0.013+/-0.000 χ^2/NDF :1938672.6/53

Out: 0.013+/-0.000 χ^2/NDF :2052167.6/58

All: 0.013+/-0.000 χ^2/NDF : 3992895.4/112

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.554+/-0.000 χ^2/NDF : 76285489391.0/30

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.576+/-0.000 χ^2/NDF : 73763444849.1/33

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

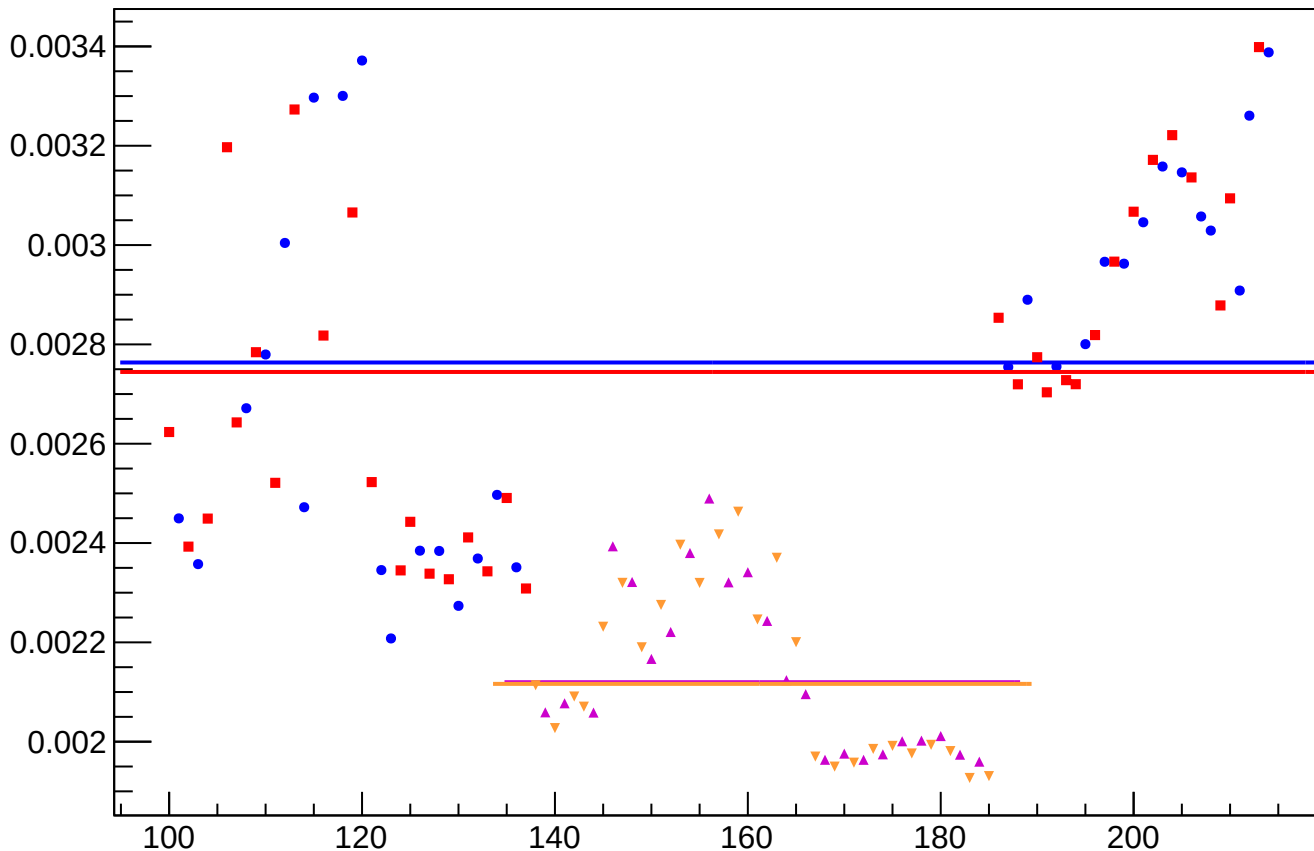
Right: 0.566+/-0.000 χ^2/NDF : 150563660292.8/64

In: 0.326+/-0.000 χ^2/NDF : 250560774518.6/53

Out: 0.333+/-0.000 χ^2/NDF : 280498404156.5/58

All: 0.330+/-0.000 χ^2/NDF : 531189279436.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 497069.8/30

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 401802.6/33

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

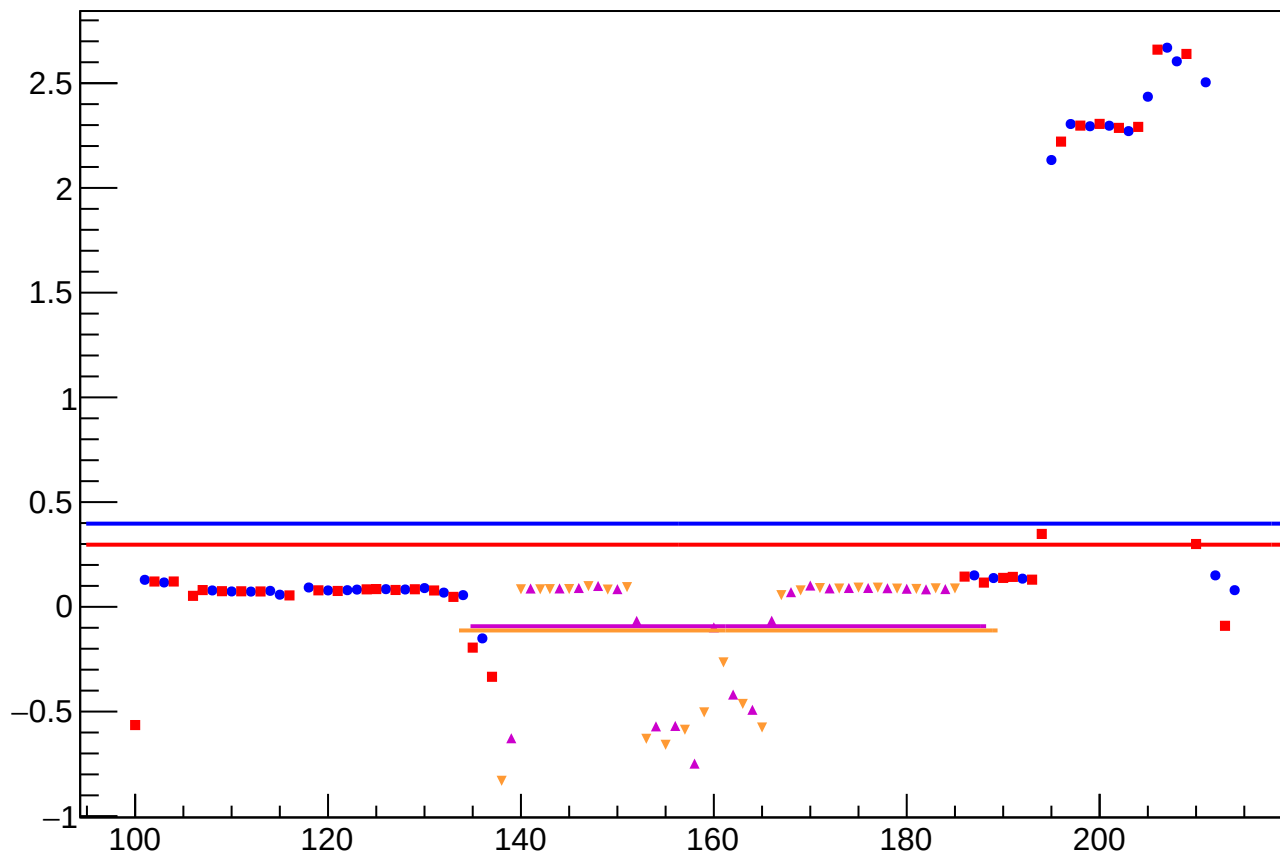
Right: 0.003+/-0.000 χ^2/NDF : 899650.6/64

In: 0.002+/-0.000 χ^2/NDF :1806004.5/53

Out: 0.002+/-0.000 χ^2/NDF :1746712.3/58

All: 0.002+/-0.000 χ^2/NDF : 3553491.5/112

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.397+/-0.000

χ^2/NDF : 61373487293.1/30

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.343+/-0.000

χ^2/NDF : 114056421765.0/64

Right Out: 0.297+/-0.000

χ^2/NDF : 52186722862.1/33

In: 0.102+/-0.000

χ^2/NDF : 85678519982.3/53

Out: 0.060+/-0.000

χ^2/NDF : 76105844002.7/58

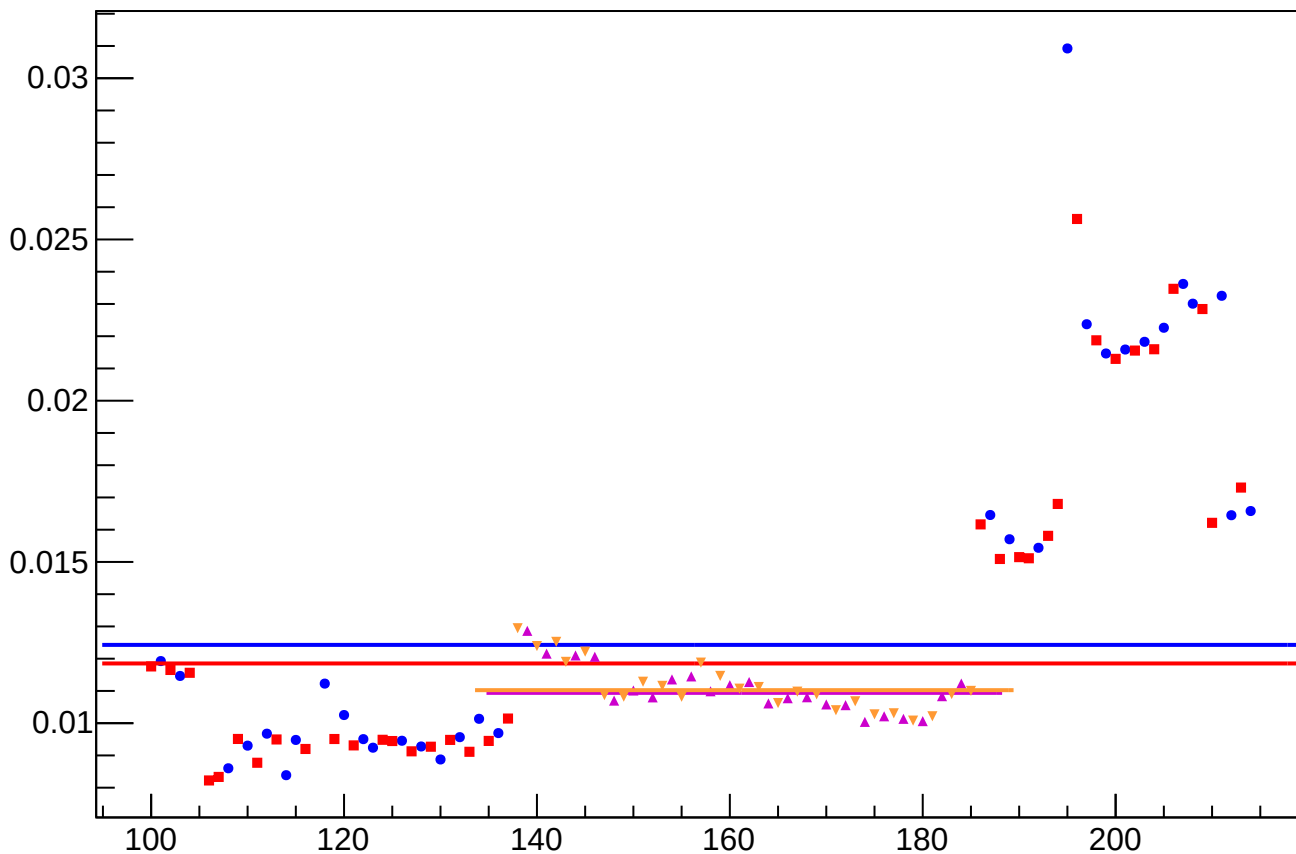
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.080+/-0.000

χ^2/NDF : 161998714634.5

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 4381755.2/30

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 4047817.5/33

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

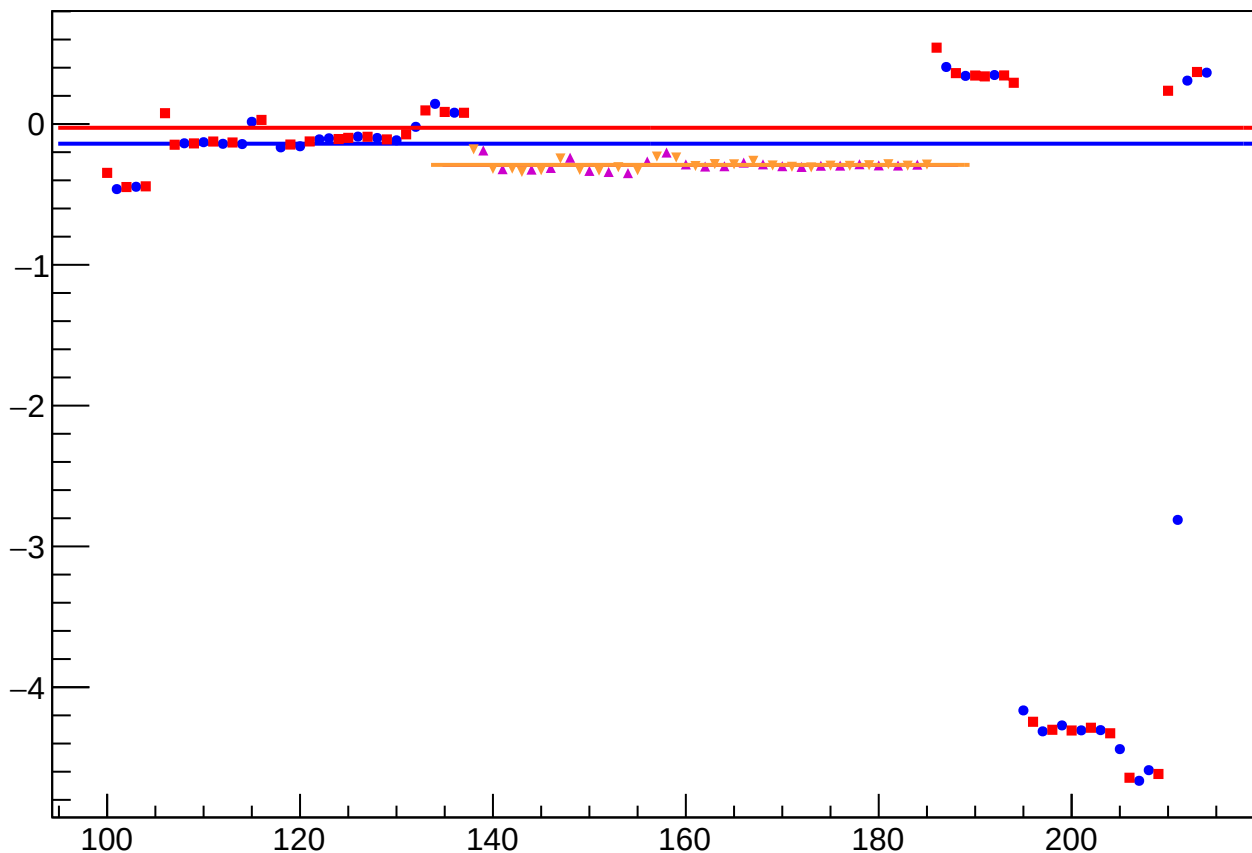
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 8462164.6/64

In: 0.012 $\pm$ 0.000 χ^2 /NDF:4754995.6/53

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:4273175.7/58

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 9034256.8/112

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.140 ± 0.000 $\chi^2/\text{NDF}: 379119890072.6/30$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 343495947414.5/33$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

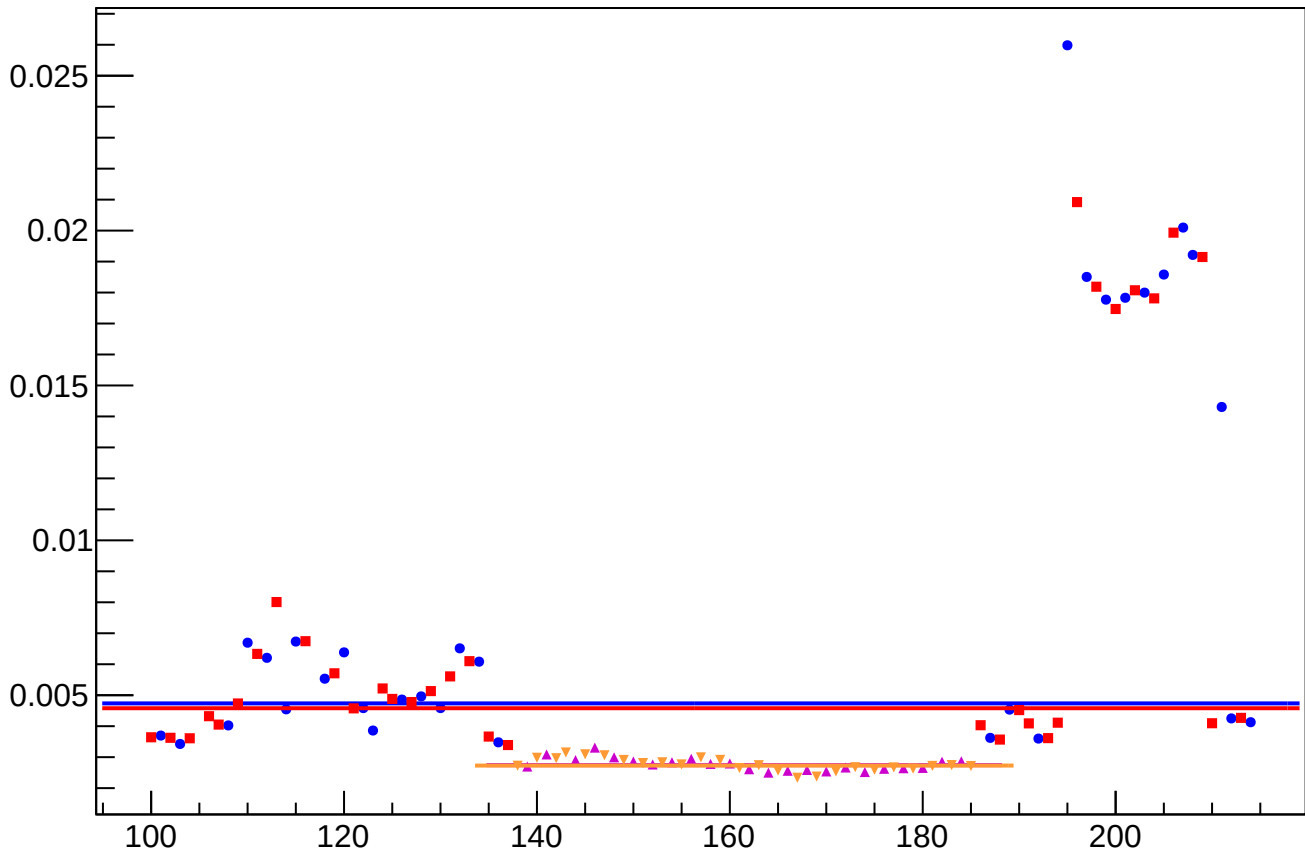
Right: -0.078 ± 0.000 $\chi^2/\text{NDF}: 726158926492.6/64$

In: -0.262 ± 0.000 $\chi^2/\text{NDF}: 391746556069.3/53$

Out: -0.236 ± 0.000 $\chi^2/\text{NDF}: 379864015049.3/58$

All: -0.249 ± 0.000 $\chi^2/\text{NDF}: 772573070103.2$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8546967.3/30

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6963815.3/33

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

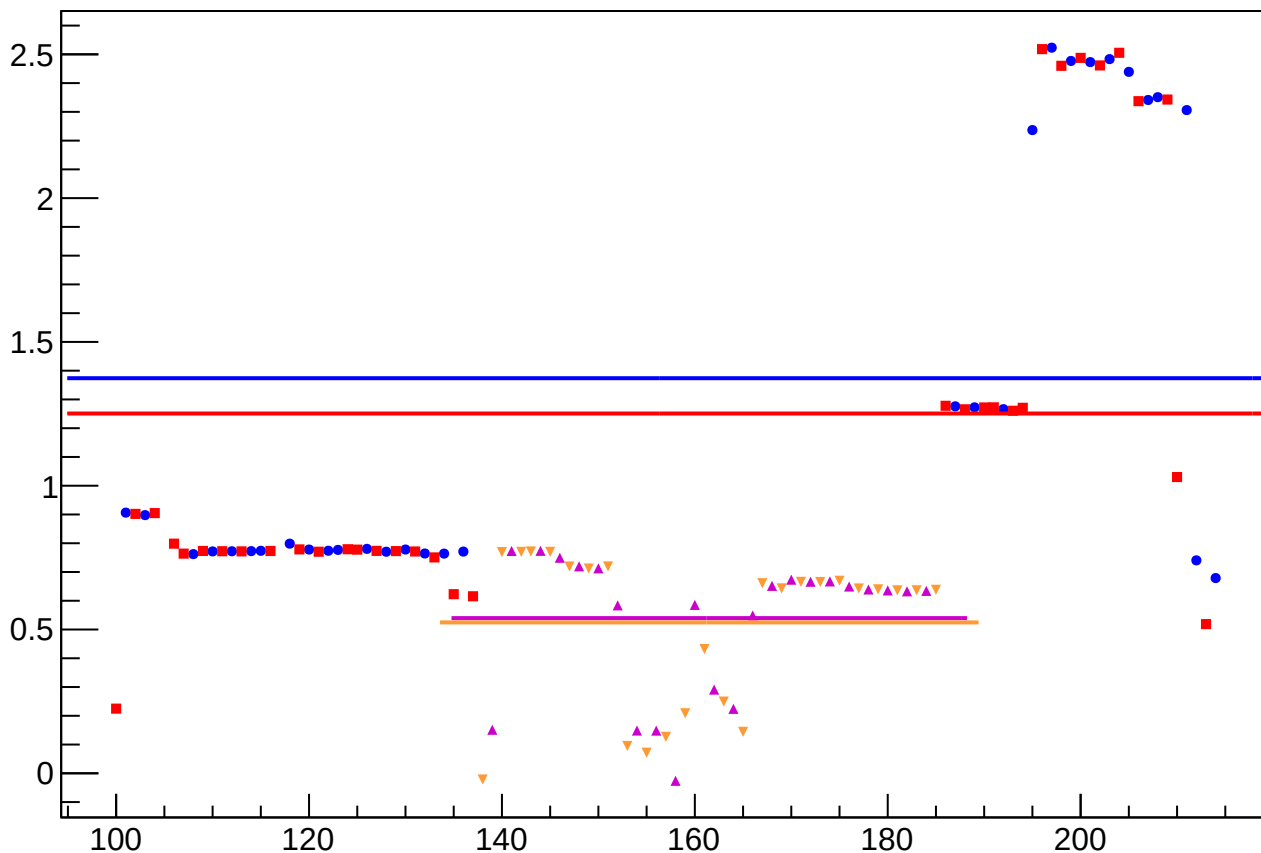
Right: 0.005+/-0.000 χ^2/NDF : 15524312.1/64

In: 0.003+/-0.000 χ^2/NDF :11994950.8/53

Out: 0.003+/-0.000 χ^2/NDF :10476325.1/58

All: 0.003+/-0.000 χ^2/NDF : 22471664.9/112

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.374+/-0.000 χ^2/NDF : 58809253057.4/30

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 1.251+/-0.000 χ^2/NDF : 54684177626.6/33

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

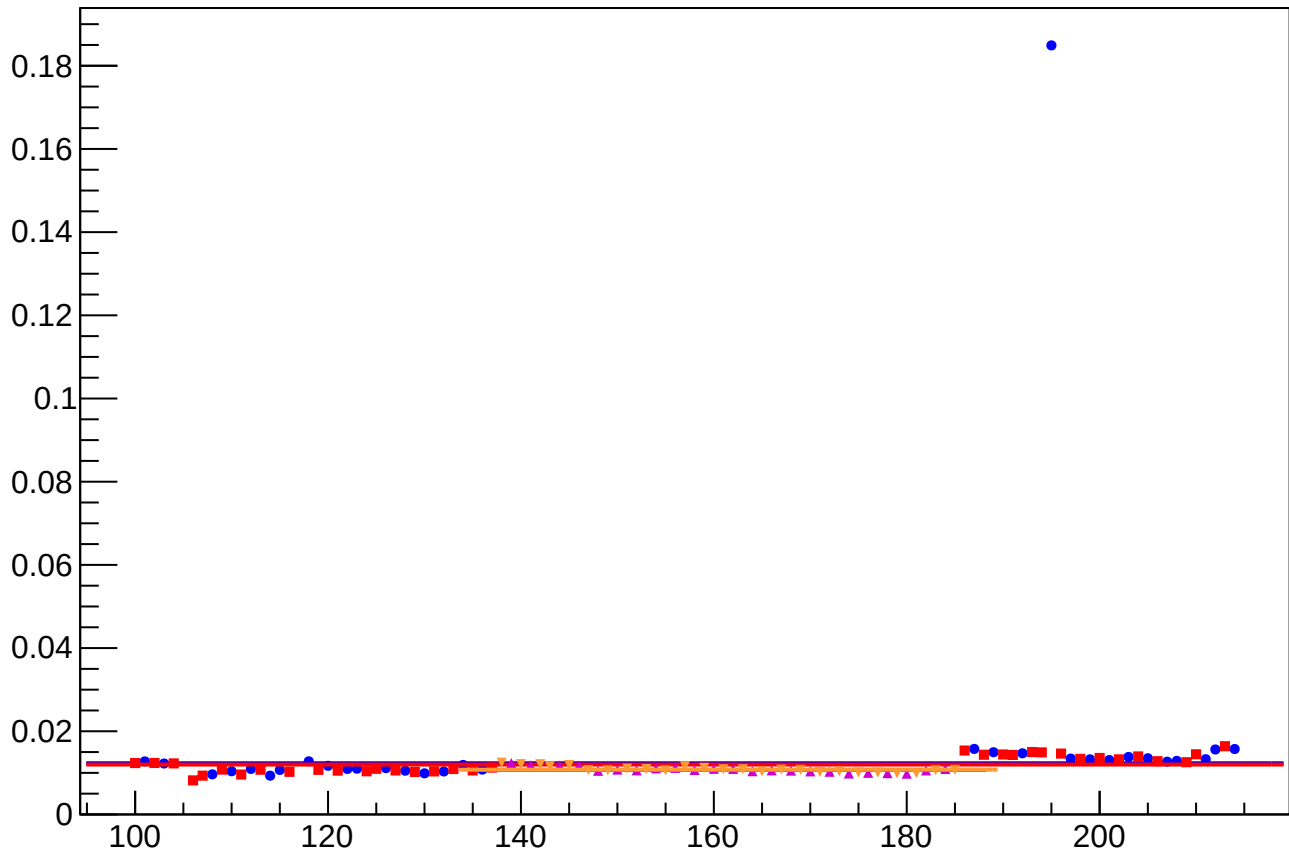
Right: 1.310+/-0.000 χ^2/NDF : 114286056547.1/64

In: 0.880+/-0.000 χ^2/NDF : 108094277343.2/53

Out: 0.829+/-0.000 χ^2/NDF : 98079043289.0/58

All: 0.854+/-0.000 χ^2/NDF : 206495573340.0

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2049842.6/30

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 871438.4/33

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

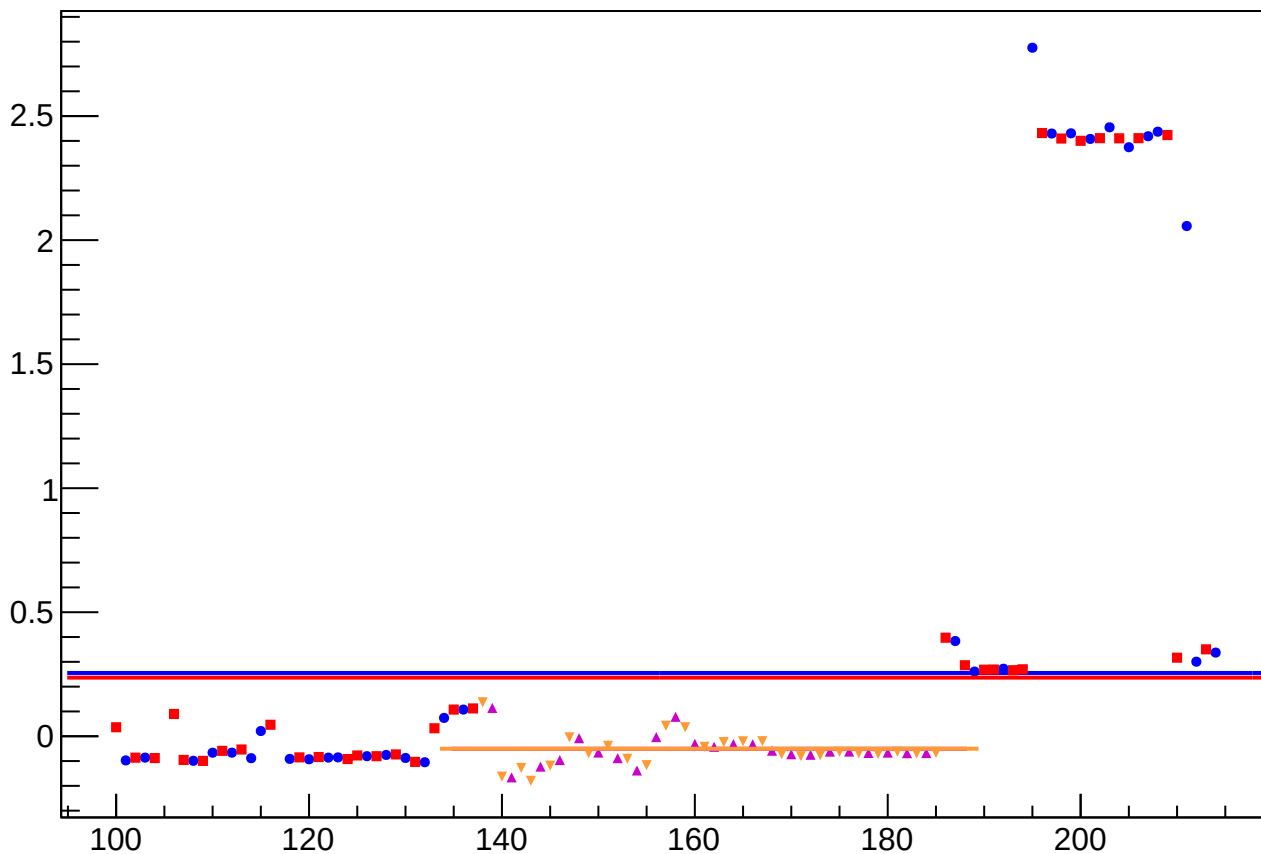
Right: 0.012+/-0.000 χ^2/NDF : 2931408.8/64

In: 0.011+/-0.000 χ^2/NDF :2480211.0/53

Out: 0.011+/-0.000 χ^2/NDF :1196282.4/58

All: 0.011+/-0.000 χ^2/NDF : 3677603.3/112

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.255+/-0.000 χ^2/NDF : 195781111196.0/30

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.236+/-0.000 χ^2/NDF : 160224040452.2/33

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

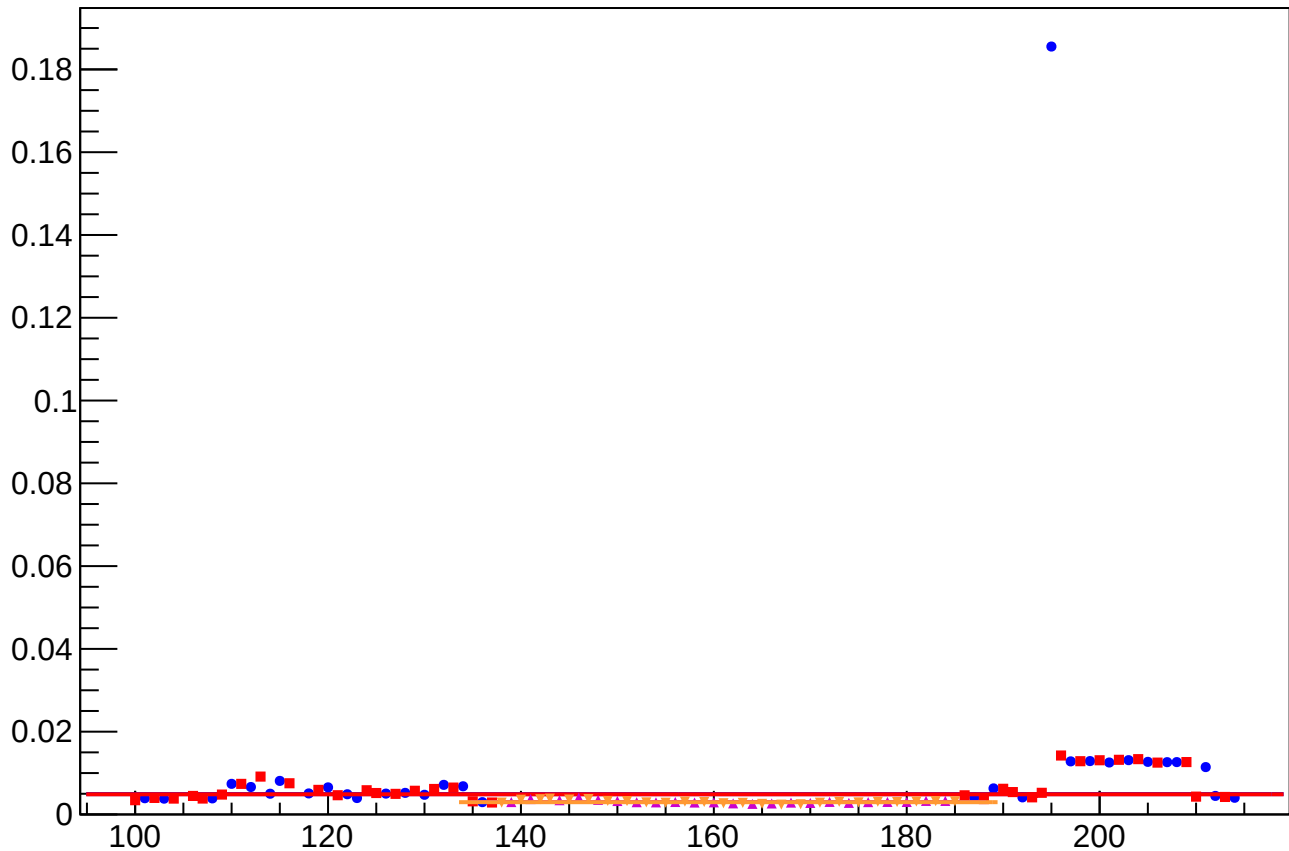
Right: 0.245+/-0.000 χ^2/NDF : 356095877967.7/64

In: 0.015+/-0.000 χ^2/NDF : 237807980076.2/53

Out: 0.012+/-0.000 χ^2/NDF : 202258555780.7/58

All: 0.014+/-0.000 χ^2/NDF : 440078708575.2

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7373715.5/30

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5155616.6/33

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

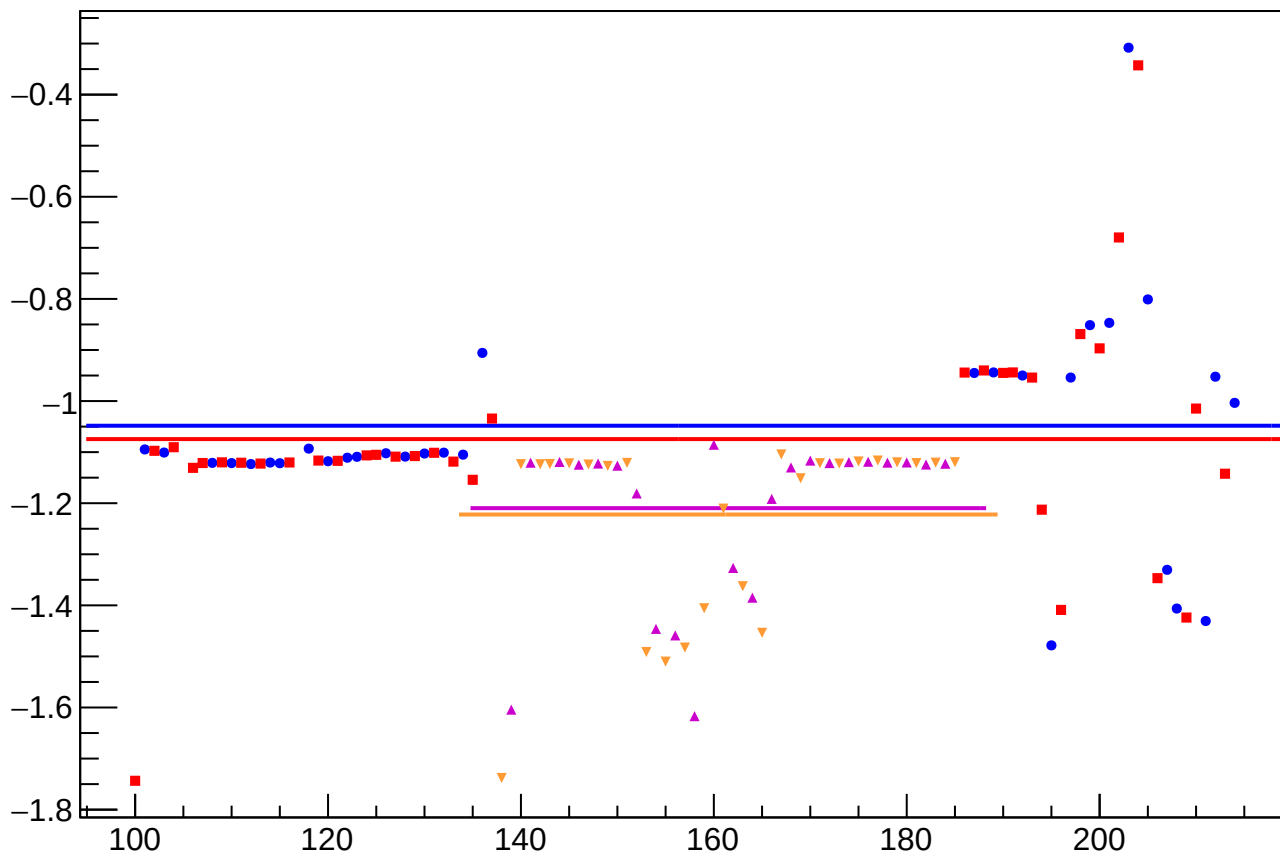
Right: 0.005+/-0.000 χ^2/NDF : 12530339.2/64

In: 0.003+/-0.000 χ^2/NDF : 10498284.1/53

Out: 0.003+/-0.000 χ^2/NDF : 8719711.2/58

All: 0.003+/-0.000 χ^2/NDF : 19221177.9/112

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.048+/-0.000 χ^2/NDF : 5641701954.2/30

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.074+/-0.000 χ^2/NDF : 4662734096.5/33

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

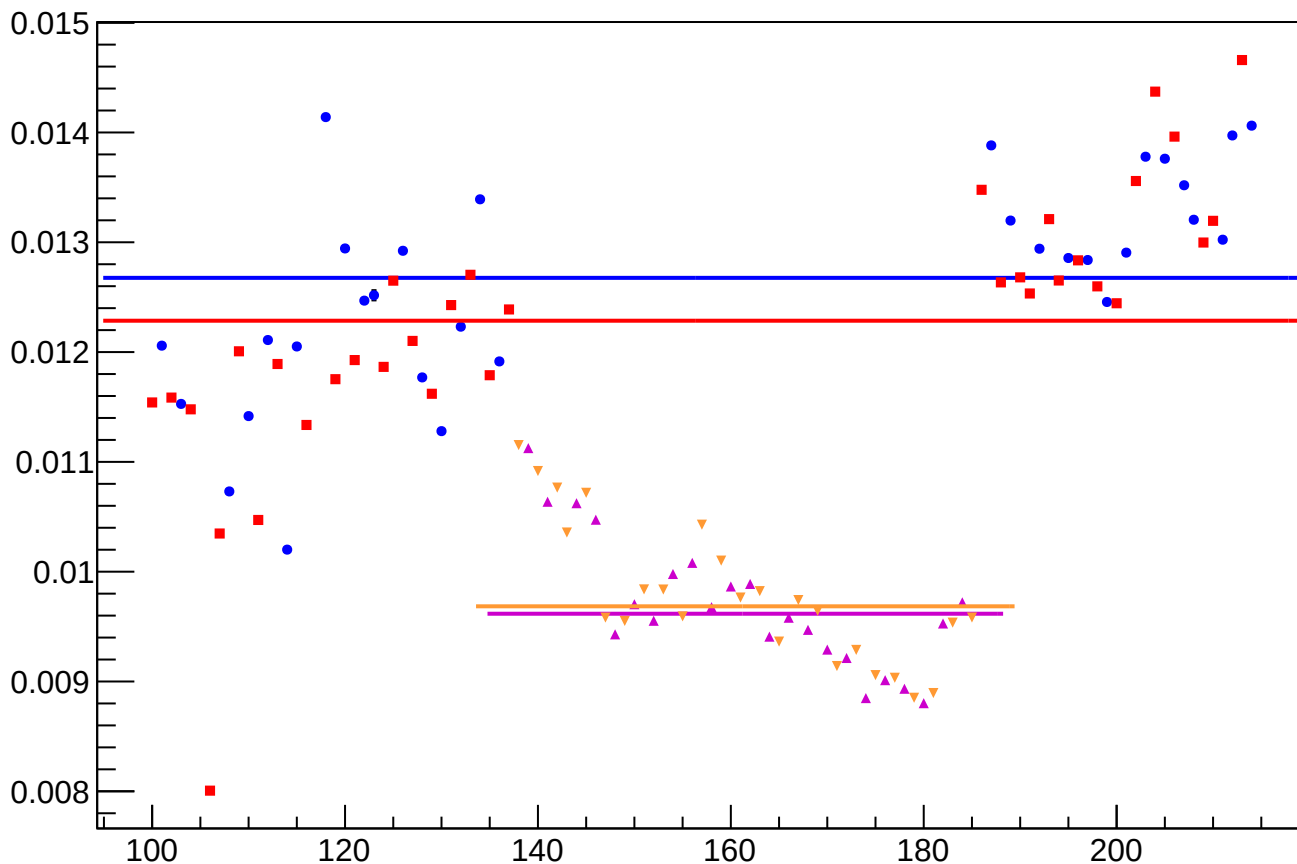
Right: -1.062+/-0.000 χ^2/NDF : 10340451073.4/64

In: -1.152+/-0.000 χ^2/NDF : 11827474207.9/53

Out: -1.168+/-0.000 χ^2/NDF : 11461339356.8/58

All: -1.160+/-0.000 χ^2/NDF : 23324481564.8/112

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 162916.0/30

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 370696.5/33

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 255532.7/47

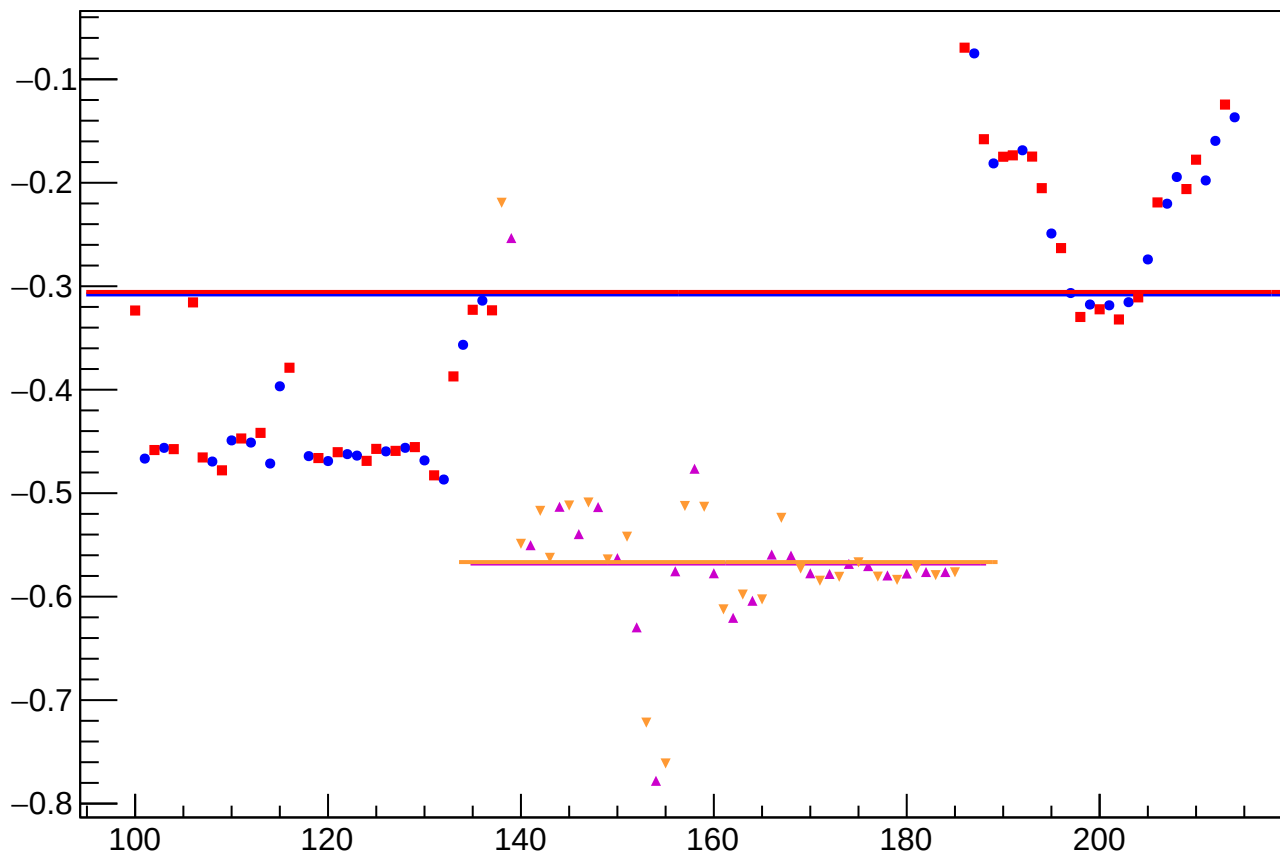
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 549630.6/64

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1492344.6/53

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1448404.4/58

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 2942027.6/112

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.308+/-0.000

χ^2/NDF : 13315894691.3/30

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.307+/-0.000

χ^2/NDF : 27646933258.2/64

Right Out: -0.305+/-0.000

χ^2/NDF : 14327710948.8/33

In: -0.454+/-0.000

χ^2/NDF : 67458612823.0/53

Out: -0.460+/-0.000

χ^2/NDF : 72248201705.8/58

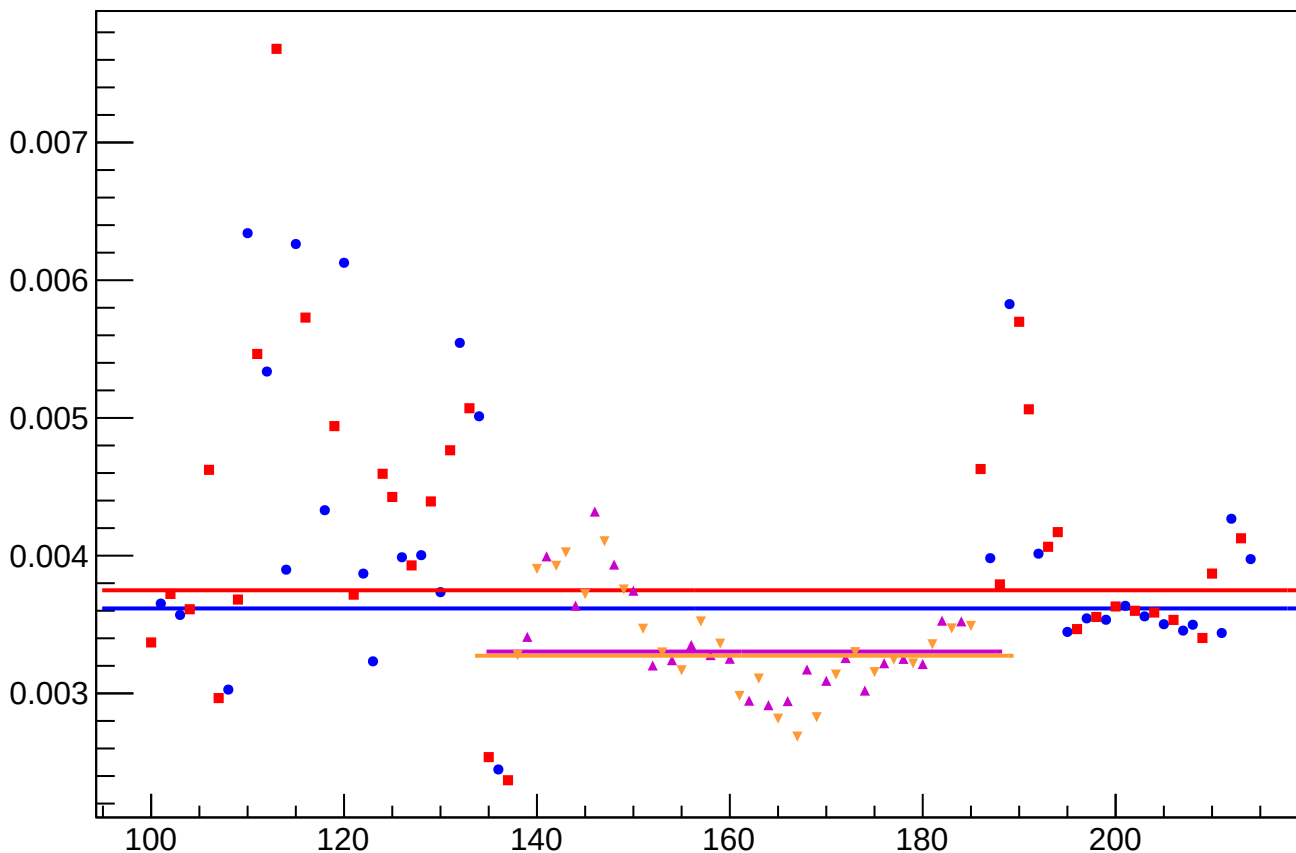
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.457+/-0.000

χ^2/NDF : 139749253993.7

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1048145.3/30

Left Out: 0.003+/-0.000 χ^2/NDF :394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1099126.3/33

Left In: 0.003+/-0.000 χ^2/NDF :286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

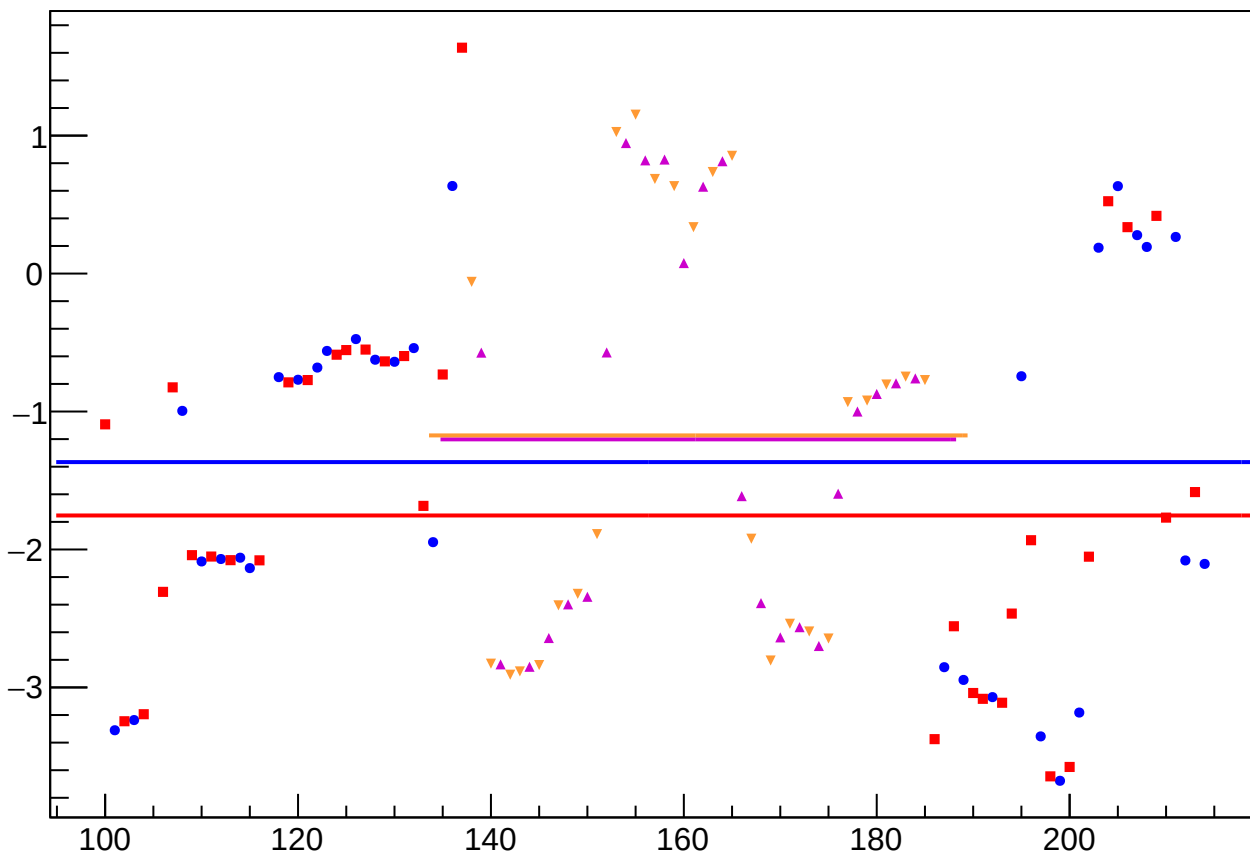
Right: 0.004+/-0.000 χ^2/NDF : 2166835.0/64

In: 0.003+/-0.000 χ^2/NDF :1460726.7/53

Out: 0.003+/-0.000 χ^2/NDF :1789070.4/58

All: 0.003+/-0.000 χ^2/NDF : 3251723.5/112

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.367+/-0.000 χ^2/NDF : 6223046787.6/30

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.754+/-0.000 χ^2/NDF : 5219550970.3/33

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

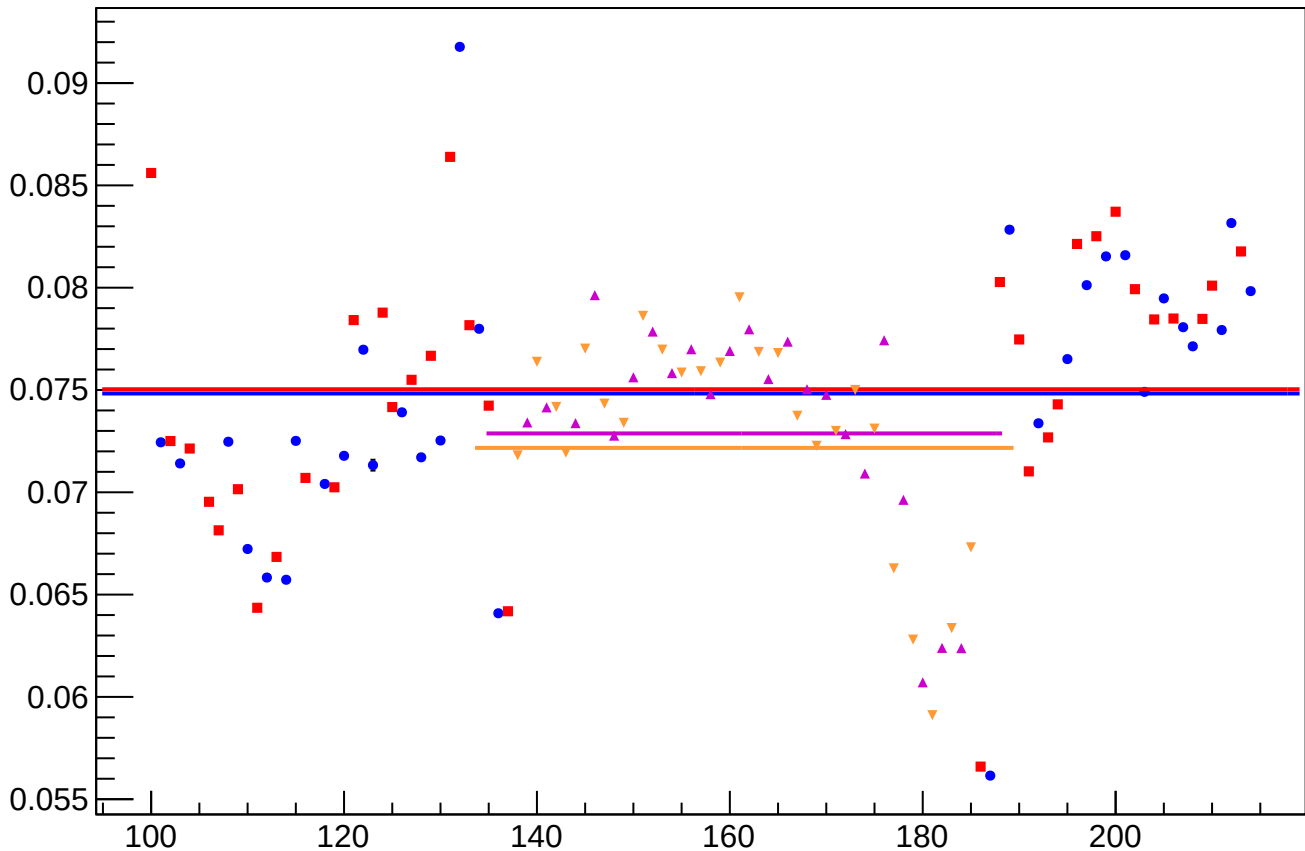
Right: -1.563+/-0.000 χ^2/NDF : 11664940123.8/64

In: -1.281+/-0.000 χ^2/NDF : 11871292599.6/53

Out: -1.443+/-0.000 χ^2/NDF : 12644985518.0/58

All: -1.364+/-0.000 χ^2/NDF : 24599630990.4/114

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.075+/-0.000 χ^2/NDF : 217772.9/30

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.075+/-0.000 χ^2/NDF : 251904.3/33

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

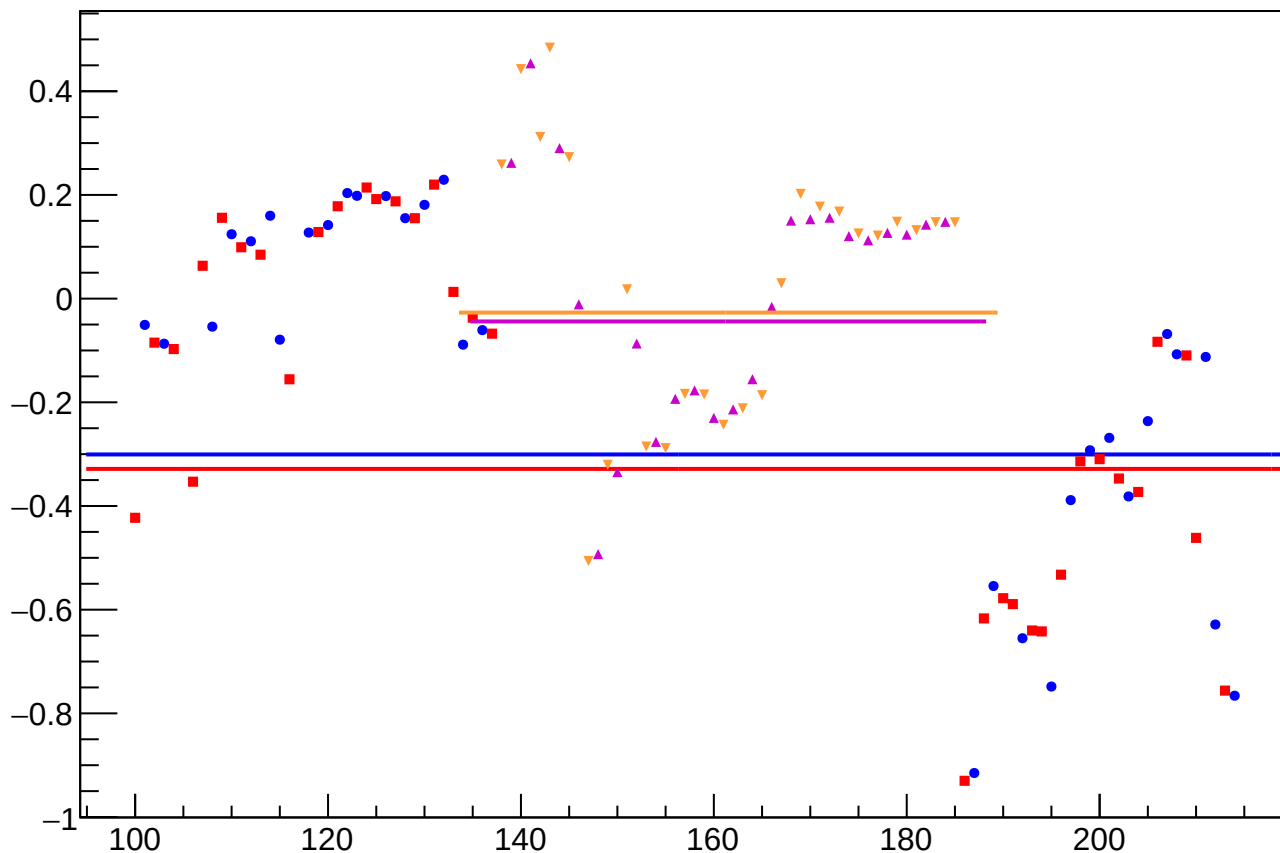
Right: 0.075+/-0.000 χ^2/NDF : 469804.8/64

In: 0.074+/-0.000 χ^2/NDF :412907.3/53

Out: 0.074+/-0.000 χ^2/NDF :500622.8/58

All: 0.074+/-0.000 χ^2/NDF : 914117.9/112

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.301+/-0.000 χ^2/NDF : 18345572095.5/30

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.328+/-0.000 χ^2/NDF : 15502810422.9/33

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

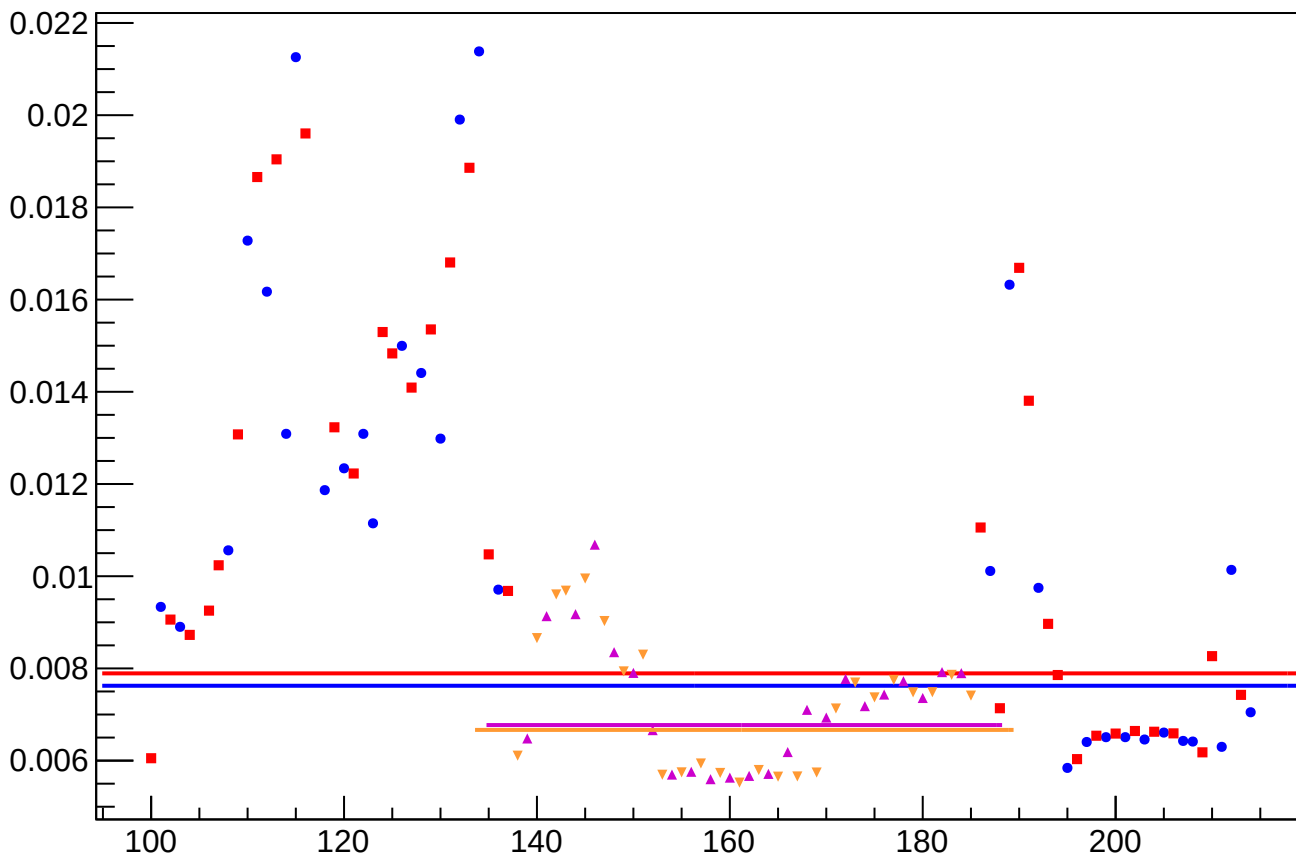
Right: -0.314+/-0.000 χ^2/NDF : 33940850423.6/64

In: -0.151+/-0.000 χ^2/NDF : 43512076239.9/53

Out: -0.141+/-0.000 χ^2/NDF : 48911530646.2/58

All: -0.146+/-0.000 χ^2/NDF : 92450860554.6/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2947051.9/30

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3079831.8/33

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

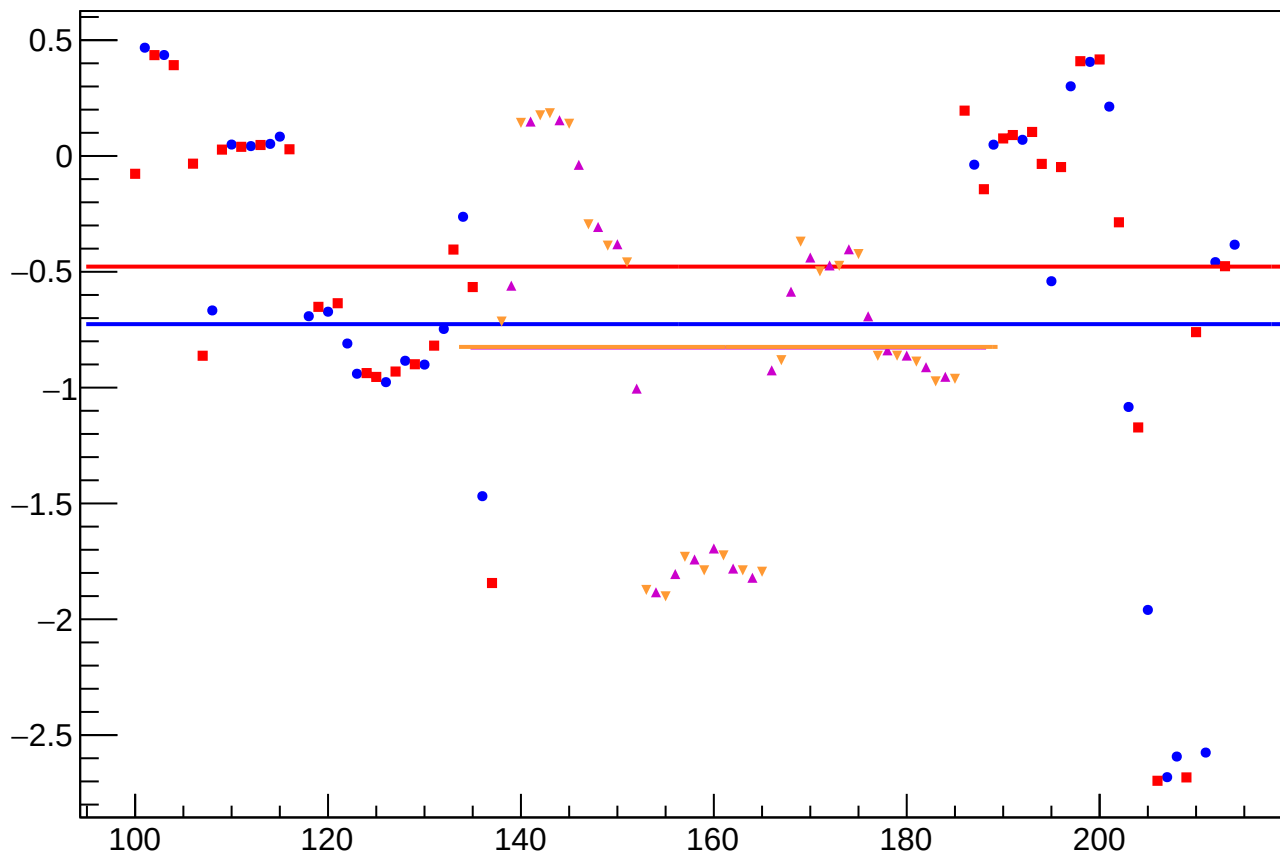
Right: 0.008+/-0.000 χ^2/NDF : 6044056.5/64

In: 0.007+/-0.000 χ^2/NDF :4089663.8/53

Out: 0.007+/-0.000 χ^2/NDF :4654656.9/58

All: 0.007+/-0.000 χ^2/NDF : 8744335.2/112

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.726 ± 0.000 $\chi^2/\text{NDF}: 1766734278.3/30$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.478 ± 0.000 $\chi^2/\text{NDF}: 1474547095.8/33$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

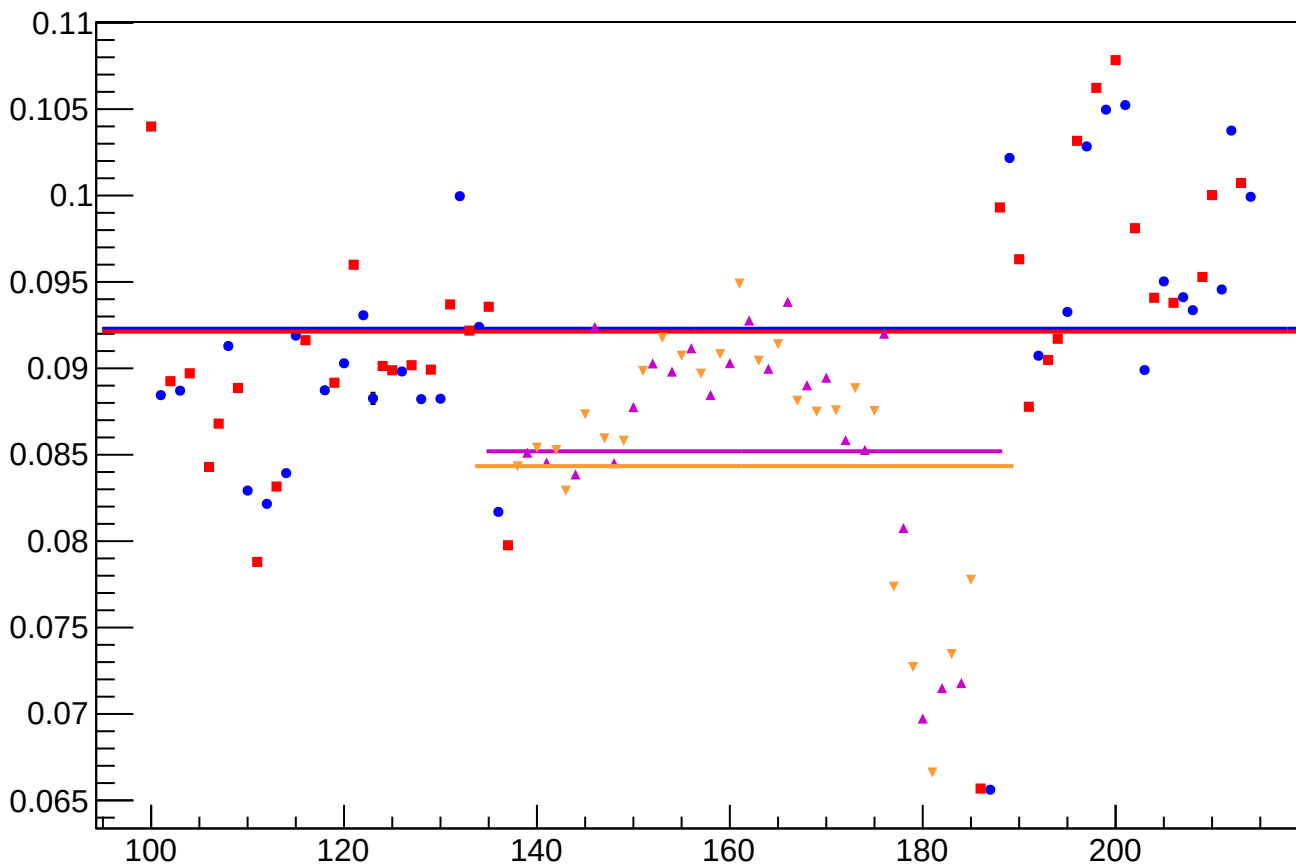
Right: -0.599 ± 0.000 $\chi^2/\text{NDF}: 3302305782.1/64$

In: -0.781 ± 0.000 $\chi^2/\text{NDF}: 2699246118.3/53$

Out: -0.671 ± 0.000 $\chi^2/\text{NDF}: 2713554817.5/58$

All: -0.725 ± 0.000 $\chi^2/\text{NDF}: 5439602149.0/1$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.092 $\pm$ 0.000 χ^2 /NDF: 222325.7/30

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 304878.8/33

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

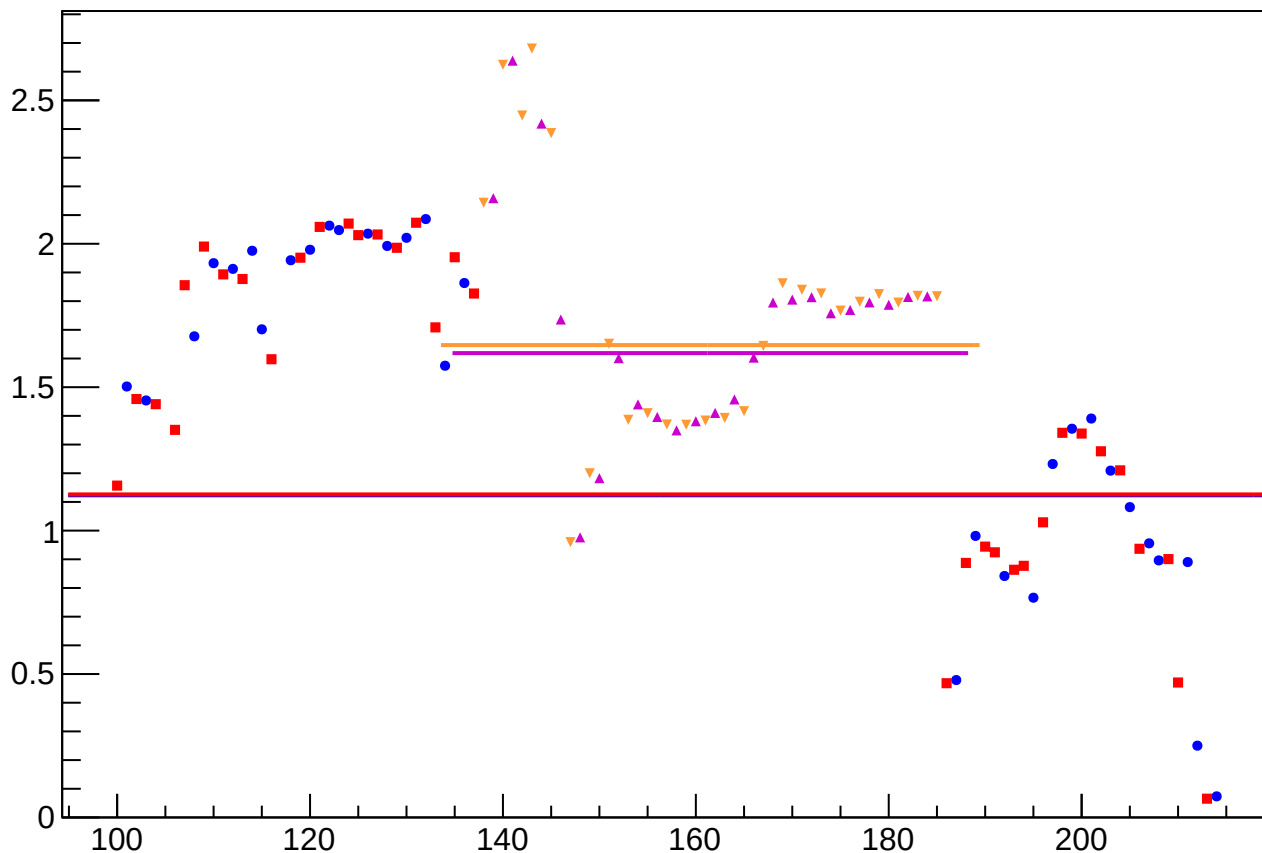
Right: 0.092 $\pm$ 0.000 χ^2 /NDF: 527259.3/64

In: 0.088 $\pm$ 0.000 χ^2 /NDF:567820.1/53

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:729715.4/58

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1299280.4/112

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.123+/-0.000 χ^2/NDF : 28176243518.4/30

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.126+/-0.000 χ^2/NDF : 24135203484.0/33

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

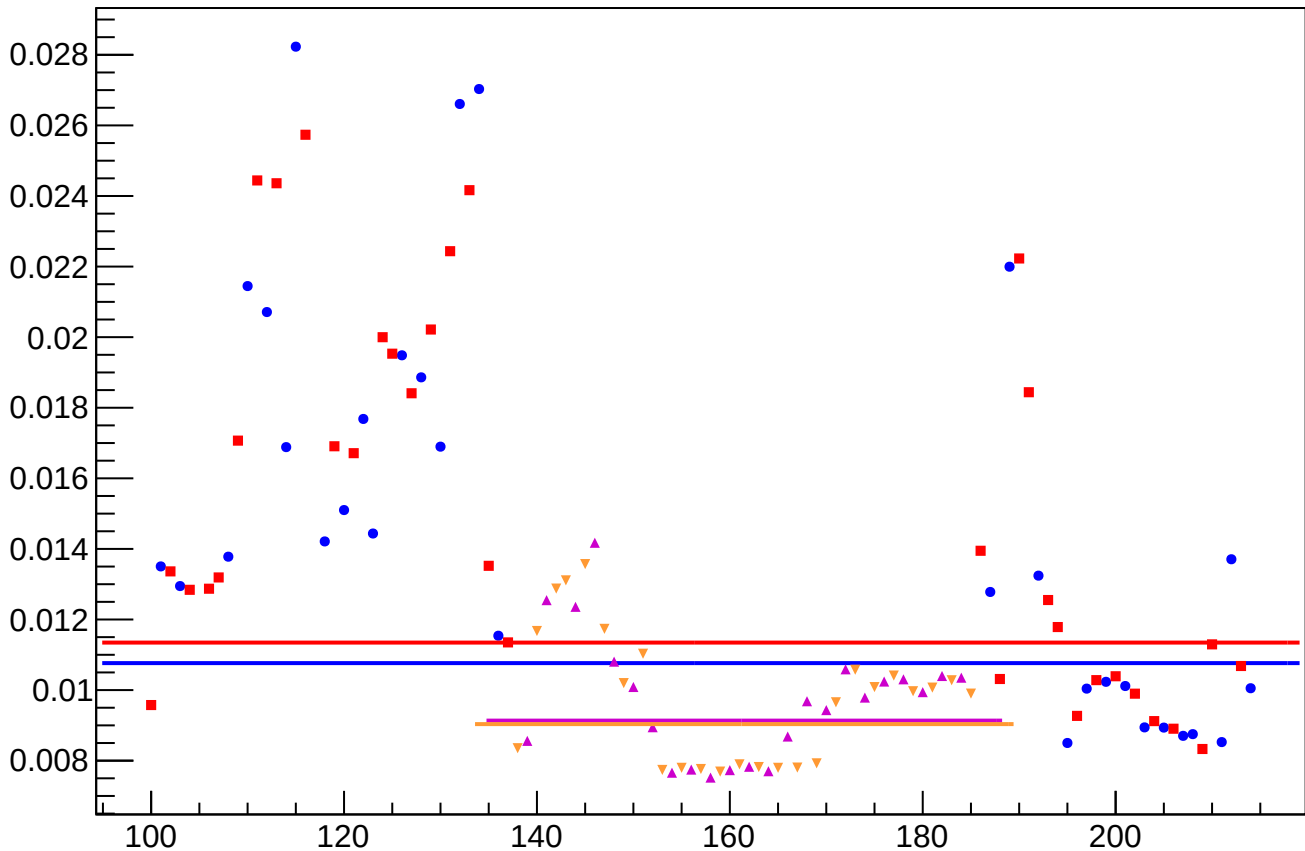
Right: 1.125+/-0.000 χ^2/NDF : 52311986517.9/64

In: 1.423+/-0.000 χ^2/NDF : 67420769314.3/53

Out: 1.462+/-0.000 χ^2/NDF : 70668204405.3/58

All: 1.443+/-0.000 χ^2/NDF : 138340769697.0

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2420295.1/30

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2529999.9/33

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

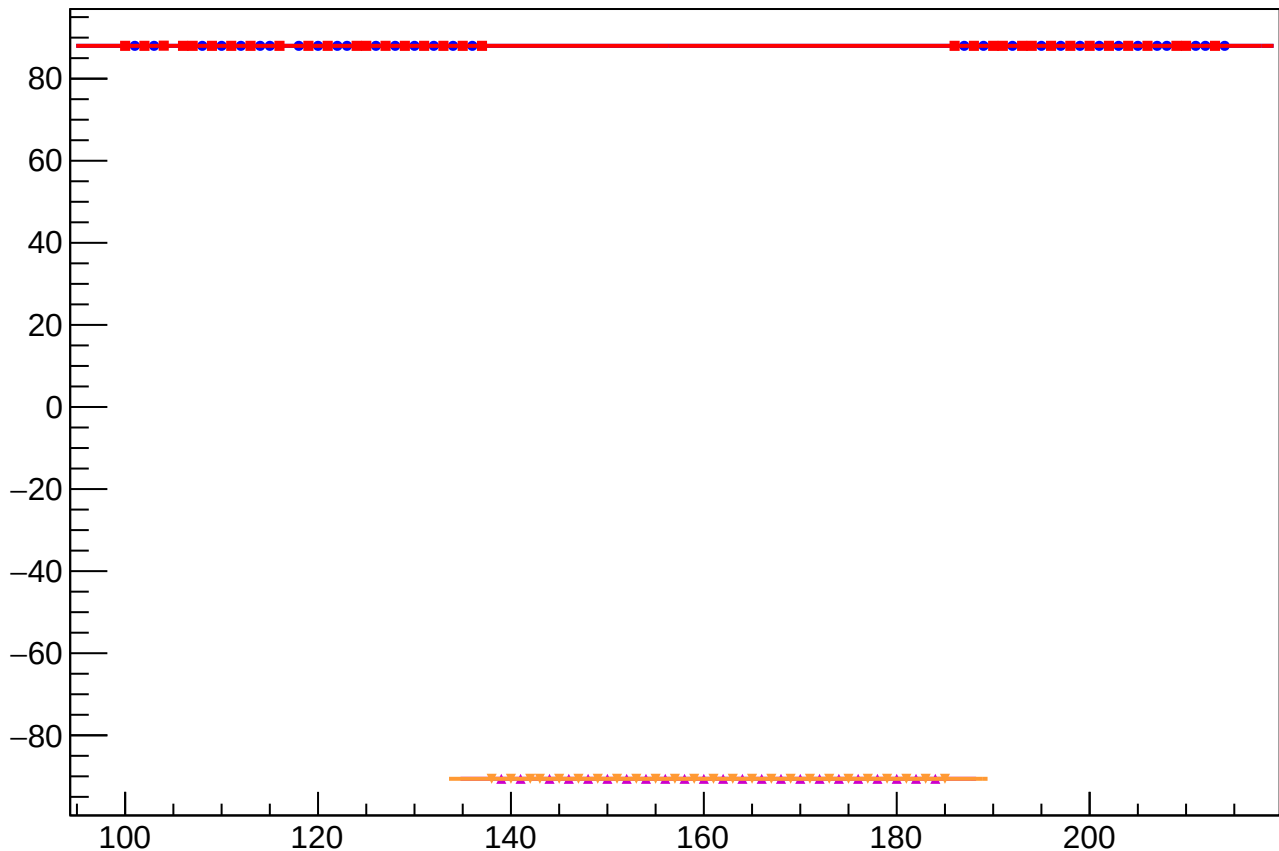
Right: 0.011+/-0.000 χ^2/NDF : 4990773.1/64

In: 0.010+/-0.000 χ^2/NDF :3701275.4/53

Out: 0.010+/-0.000 χ^2/NDF :4360452.0/58

All: 0.010+/-0.000 χ^2/NDF : 8063504.7/112

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3197650.8/30

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81039712137946389306203439104.0/33

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

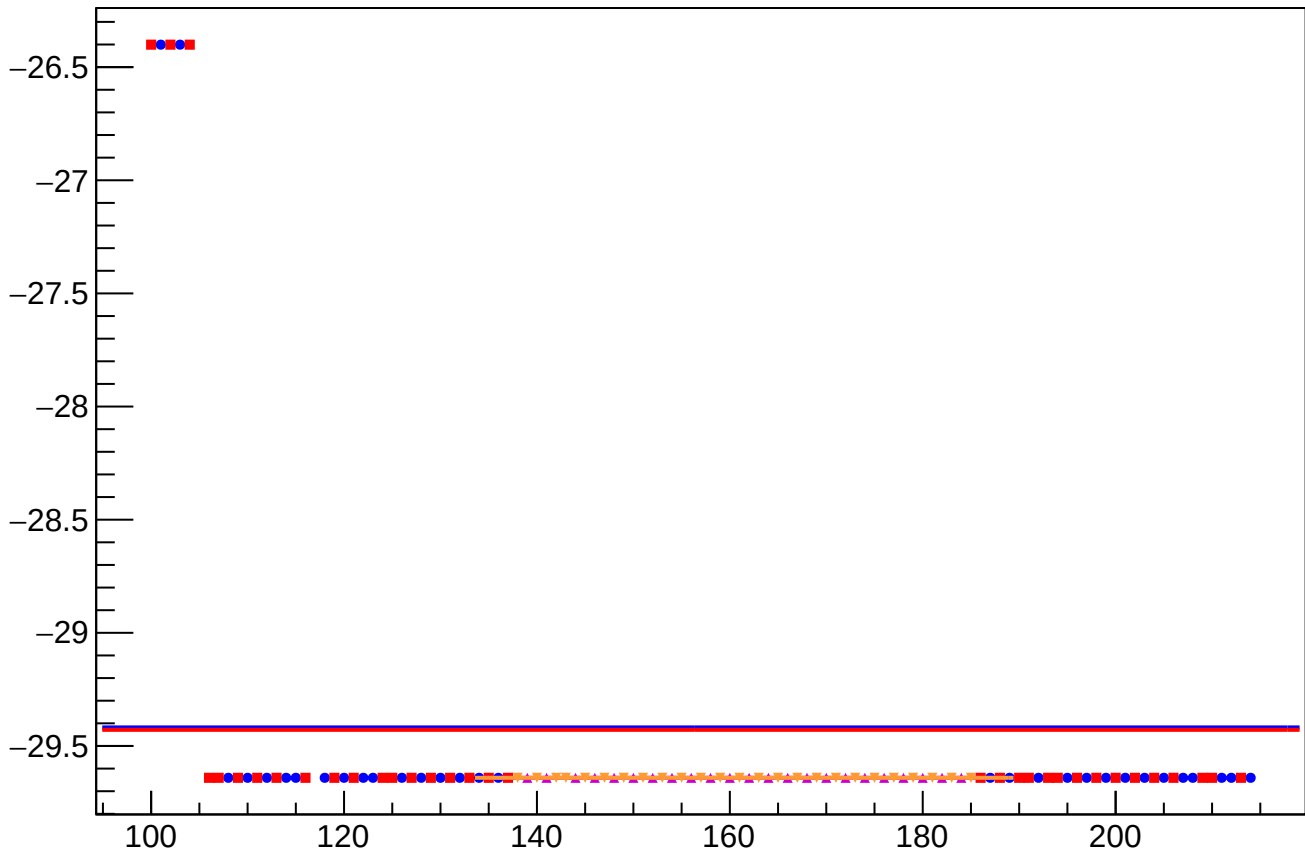
Right: 88.001+/-0.000 χ^2/NDF : 8222052149750477

In: -3.307+/-0.000 χ^2/NDF : 280002163355308580

Out: -4.504+/-0.000 χ^2/NDF : 29292777945303802

All: -3.919+/-0.000 χ^2/NDF : 5729556515982

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.418+/-0.000

χ^2/NDF : 1153586583110067263948033653473280.0/30

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.429+/-0.000

χ^2/NDF : 1138051151269020880481693009444864.0/33

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

Right: -29.423+/-0.000

χ^2/NDF : 229173737260742

In: -29.532+/-0.000

χ^2/NDF : 11971088915456708

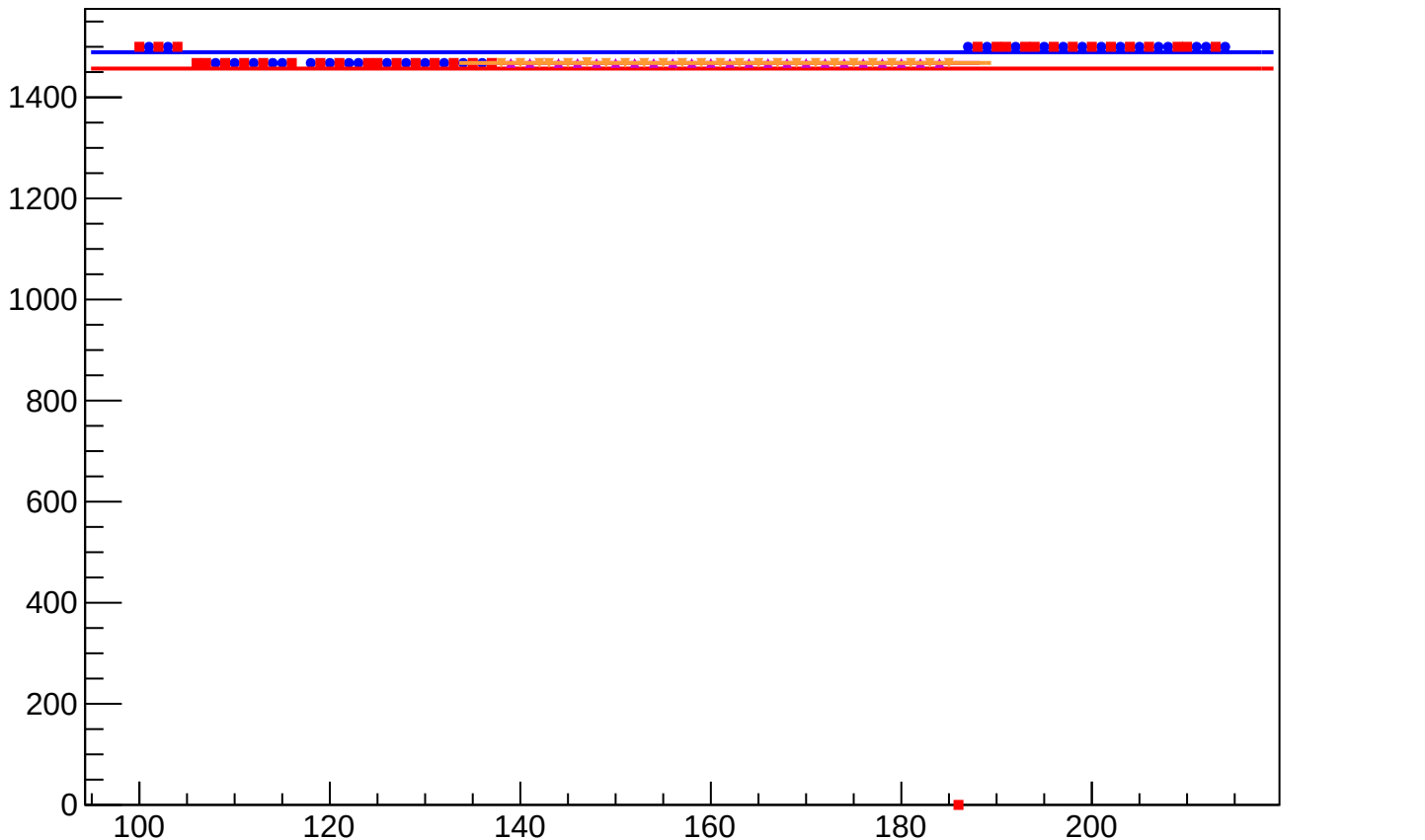
Out: -29.539+/-0.000

χ^2/NDF : 1179316024796057

All: -29.535+/-0.000

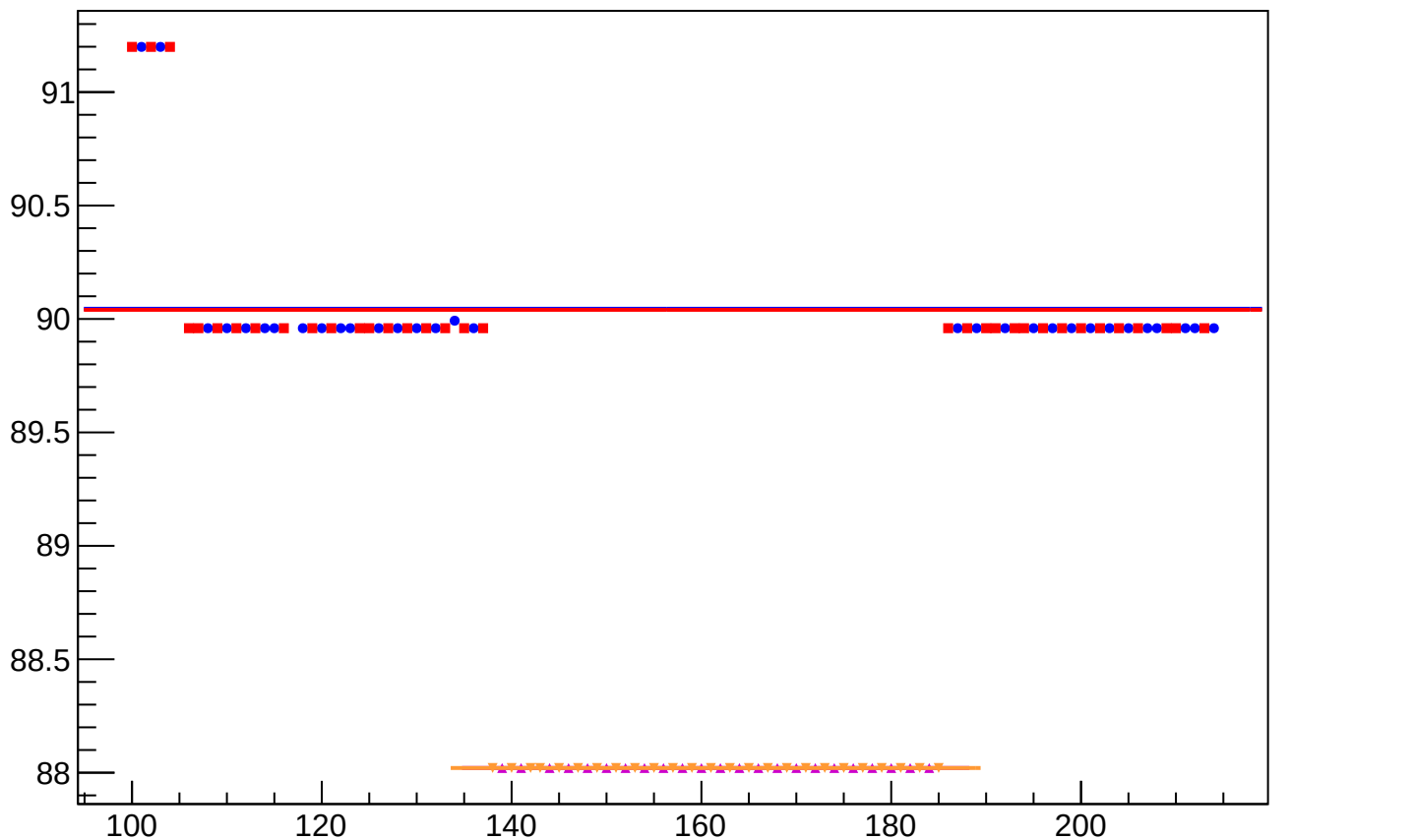
χ^2/NDF : 237650423429

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1489.315+/-0.000	χ^2/NDF : 391474570024815040171116006536642560.0/30	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1472.869+/-0.000	χ^2/NDF : 84136851744904
Right Out: 1456.943+/-0.000	χ^2/NDF : 82831314757245295880748752022951428096.0/33	In: 1478.415+/-0.000	χ^2/NDF : 7905141782448550
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1462.695+/-0.000	χ^2/NDF : 829446801964595
	All: 1470.374+/-0.000		χ^2/NDF : 84179194786

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.045+/-0.000

χ^2/NDF : 168872011295347805401142460940288.0/30

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.043+/-0.000 χ^2/NDF : 3355817763130251

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

In: 89.010+/-0.000 χ^2/NDF : 376563931047498720

Right Out: 90.040+/-0.000

χ^2/NDF : 166692143936874971510791865368576.0/33

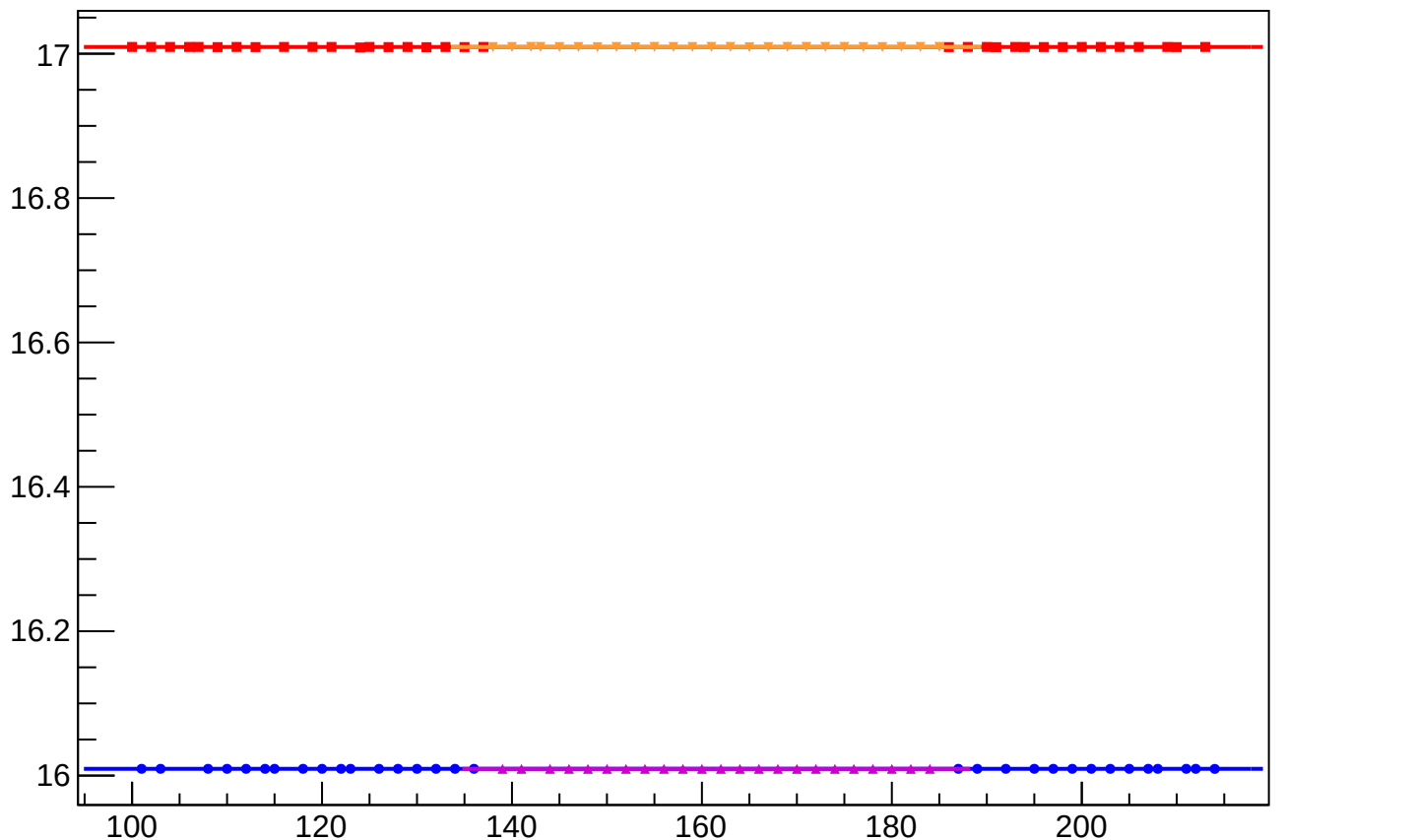
Out: 88.994+/-0.000 χ^2/NDF : 39127552478755231

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

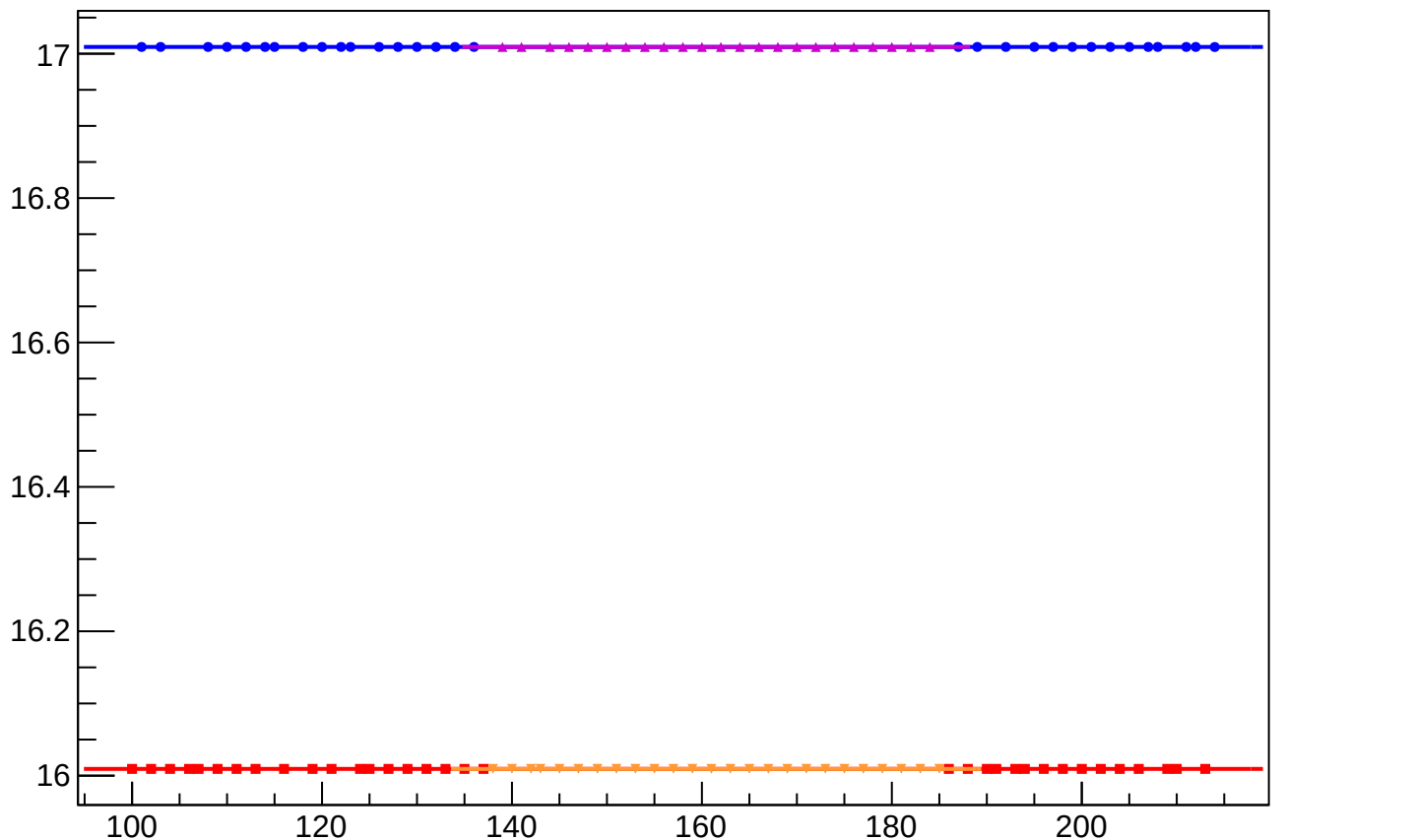
All: 89.002+/-0.000 χ^2/NDF : 7678839150636

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000	χ^2/NDF : 842231255044929934589952.0/30	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.512+/-0.000	χ^2/NDF : 8476042919676362
Right Out: 17.009+/-0.000	χ^2/NDF : 20535813240298827063230464.0/33	In: 16.009+/-0.000	χ^2/NDF : 988025122971839147
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 47868654961621131
		All: 16.518+/-0.000	χ^2/NDF : 1706397517628

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 842231255183295929909248.0/30

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Right: 16.498+/-0.000

χ^2/NDF : 8622635096440979

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

In: 17.009+/-0.000

χ^2/NDF : 976237386910795783

Right Out: 16.009+/-0.000

χ^2/NDF : 302644.9/33

Out: 16.009+/-0.000

χ^2/NDF : 563133.1/58

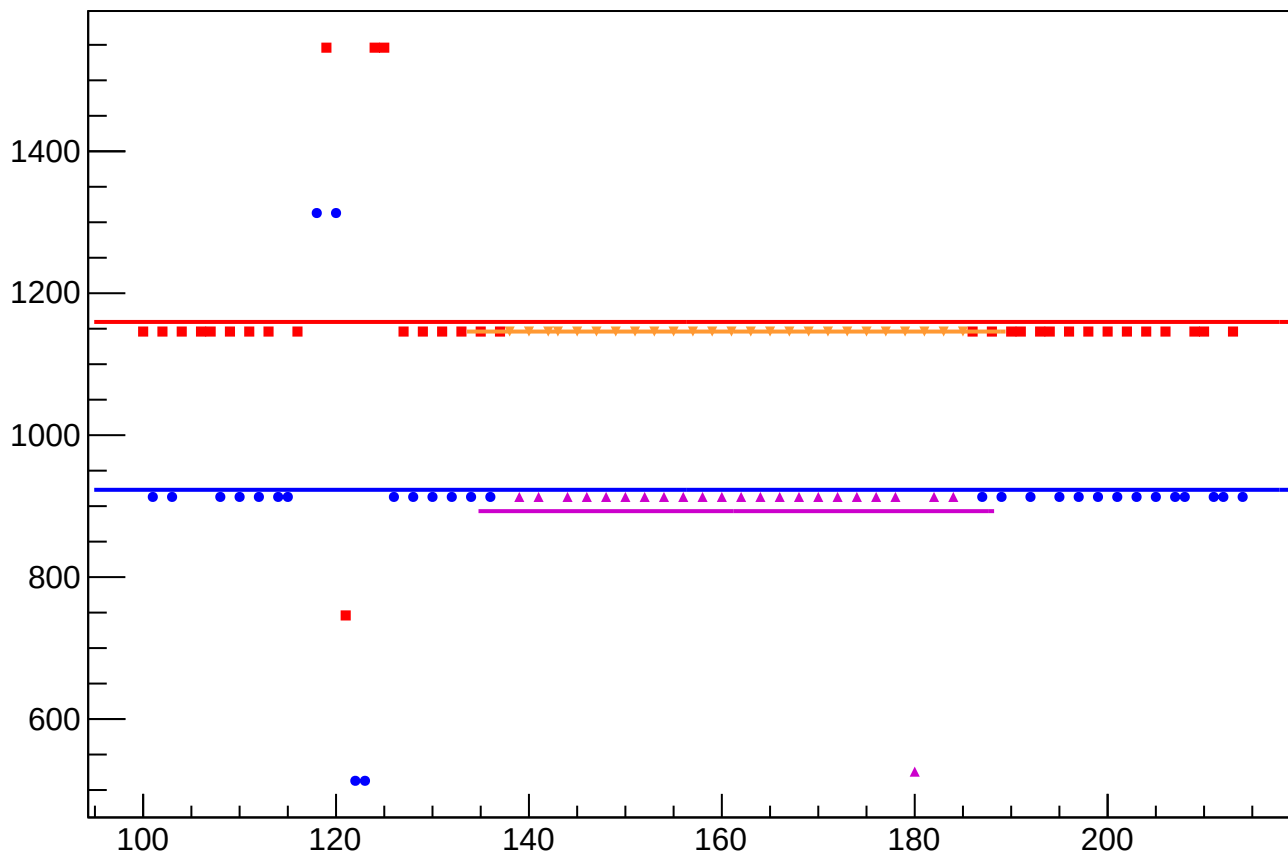
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.494+/-0.000

χ^2/NDF : 1769164116228

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 923.012 $\pm$ 0.000 χ^2 /NDF: 21109056988732852265725022533190680576.0/30

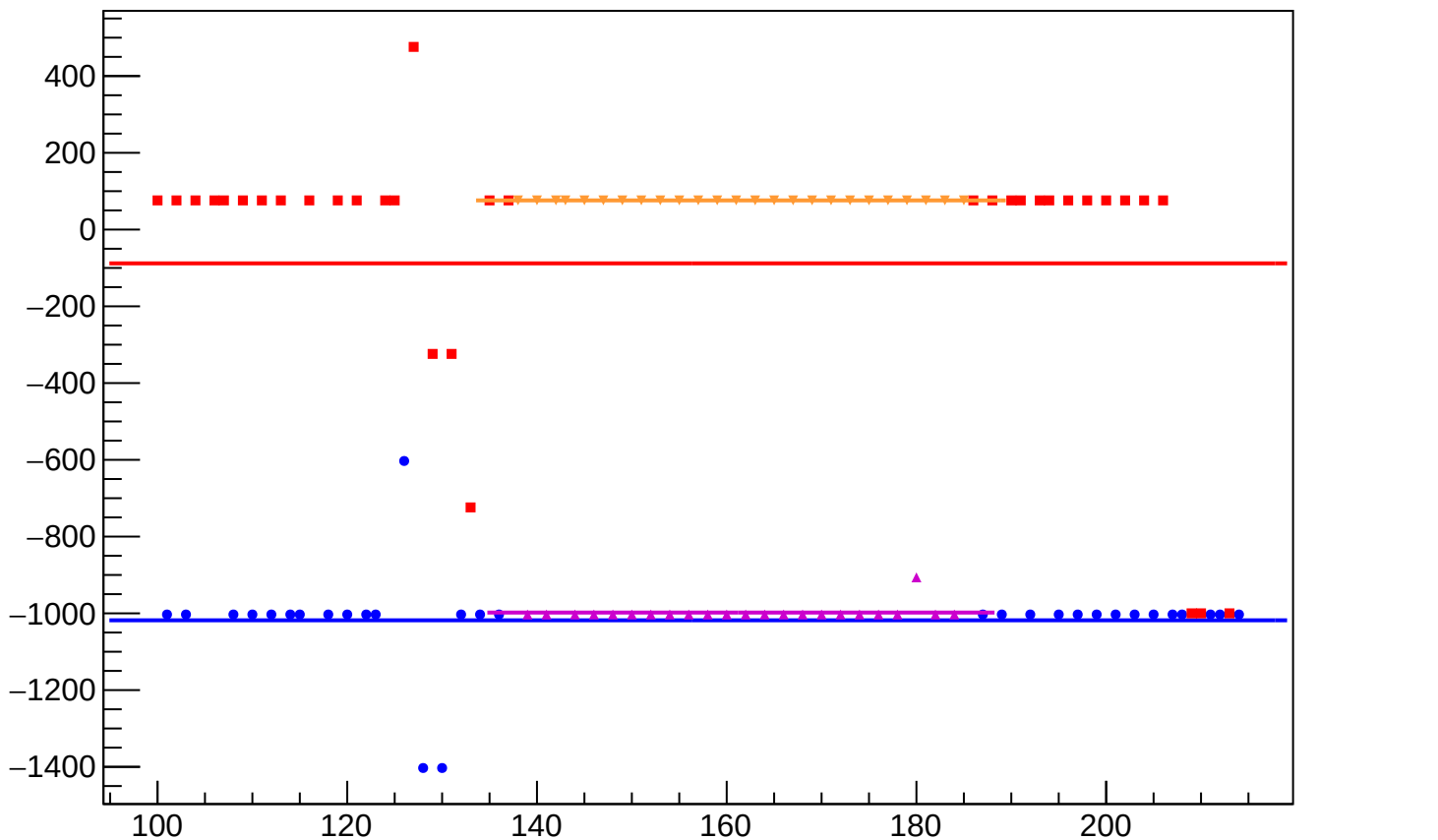
Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 8056834670270133849999540224.0/24

Right Out: 1159.546 $\pm$ 0.000 χ^2 /NDF: 21755852214984316784798186999210049536.0/33

Left In: 892.950 $\pm$ 0.000 χ^2 /NDF: 13213852485930520518972295012897783808.0/22

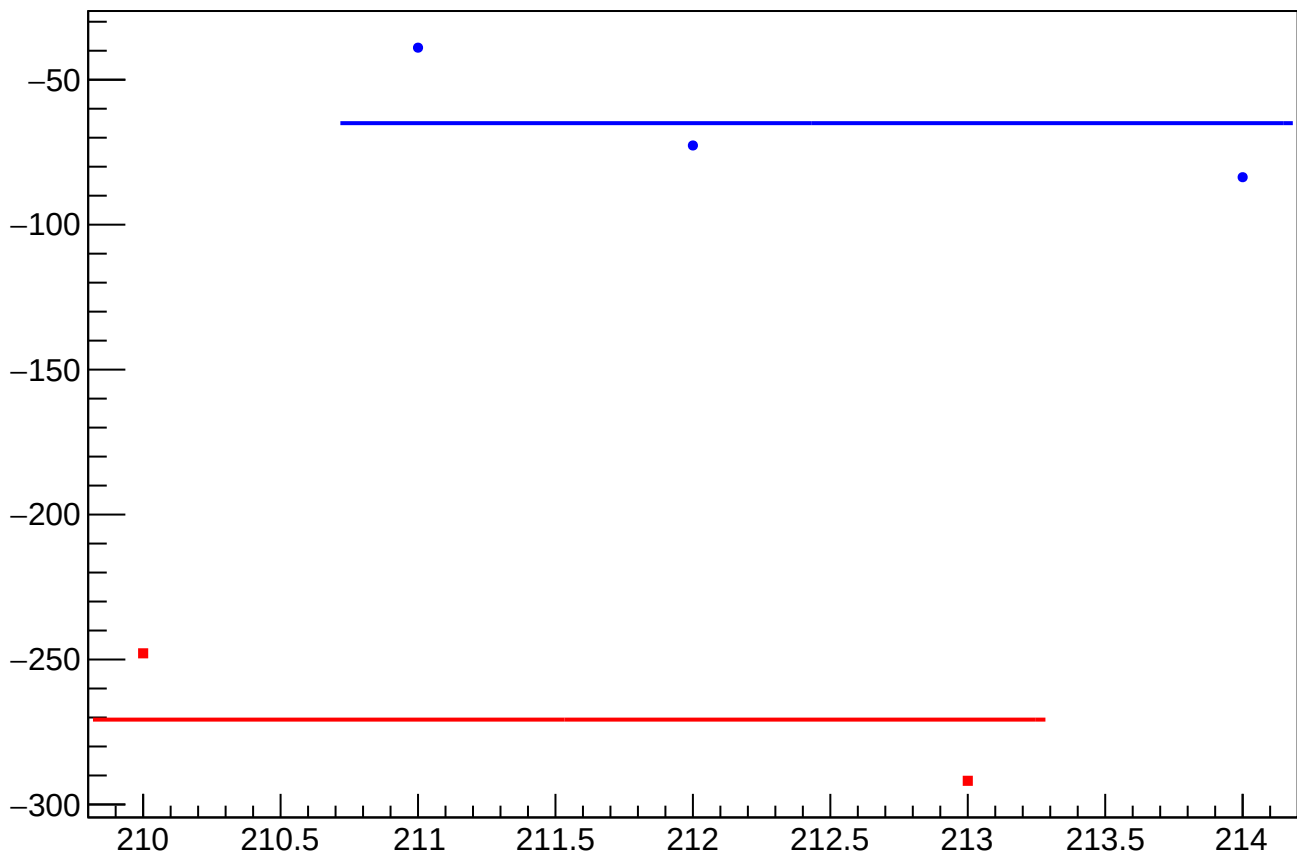
All: 1032.899 $\pm$ 0.000 χ^2 /NDF: 16479881164

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



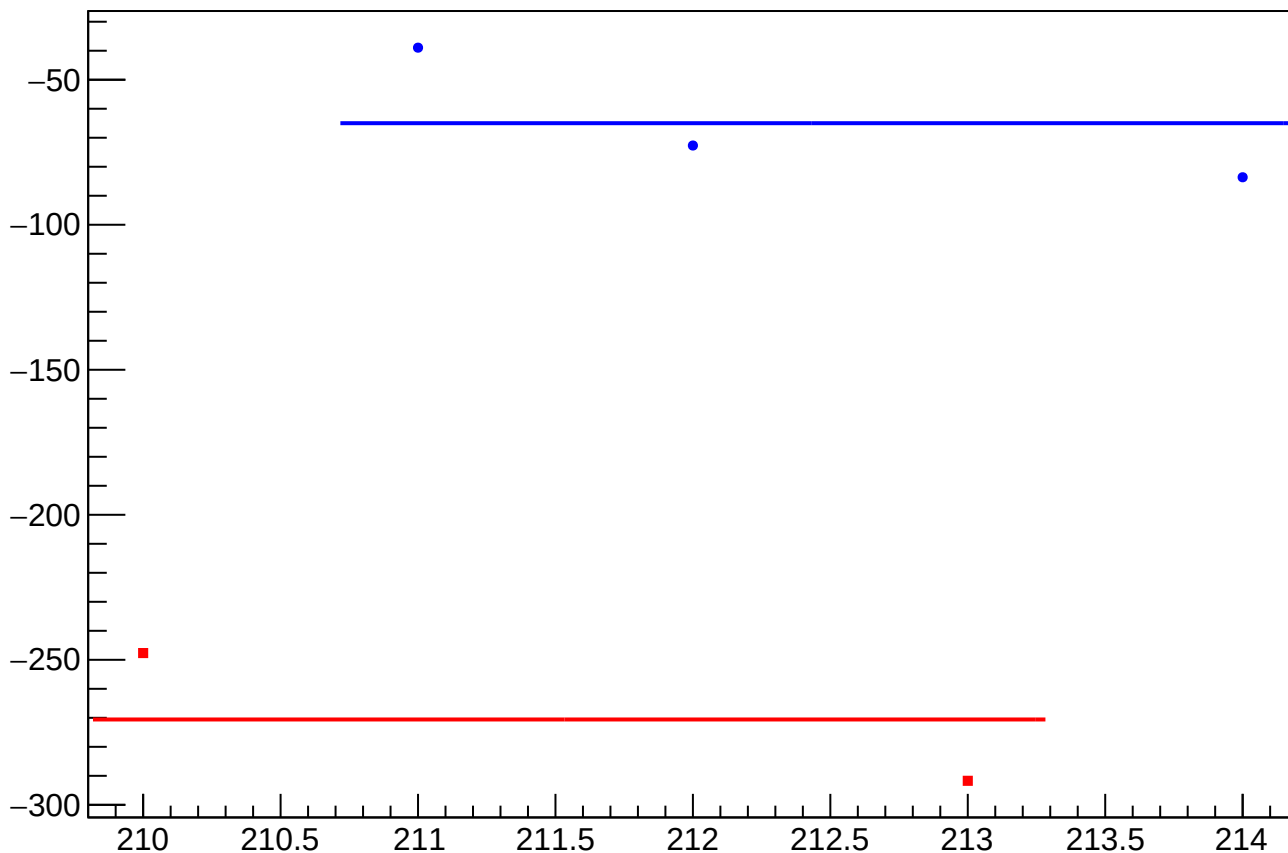
Left: -445.169+/-0.000 χ^2/NDF : 106713327806479
 Right In: -1018.131+/-0.000 χ^2/NDF : 22805976917836085468125181375682707456.0/30
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -88.061+/-0.000 χ^2/NDF : 259809232483906796704877021850469662720.0/33
 In: -1007.828+/-0.000 χ^2/NDF : 239883415325076
 Out: -3.081+/-0.000 χ^2/NDF : 28452995245512203
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -493.928+/-0.000 χ^2/NDF : 21224234038

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: -146.629+/-0.000 χ^2/NDF : 39856580123496
 Right In: -64.985+/-0.000 χ^2/NDF : 83351748488123261688819192042618880.0/2
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -64.985+/-0.000 χ^2/NDF : 83351748488123261
 Right Out: -270.729+/-0.000 χ^2/NDF : 72391751130083692399004283901575168.0/1
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -146.629+/-0.000 χ^2/NDF : 39856580123

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: -146.568+/-0.000 χ^2/NDF : 39801396093974
 Right In: -64.985+/-0.000 χ^2/NDF : 83351748488123261688819192042618880.0/2
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -270.574+/-0.000 χ^2/NDF : 72629179805941194116968620035670016.0/1
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -64.985+/-0.000 χ^2/NDF : 83351748488123261
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -146.568+/-0.000 χ^2/NDF : 39801396093