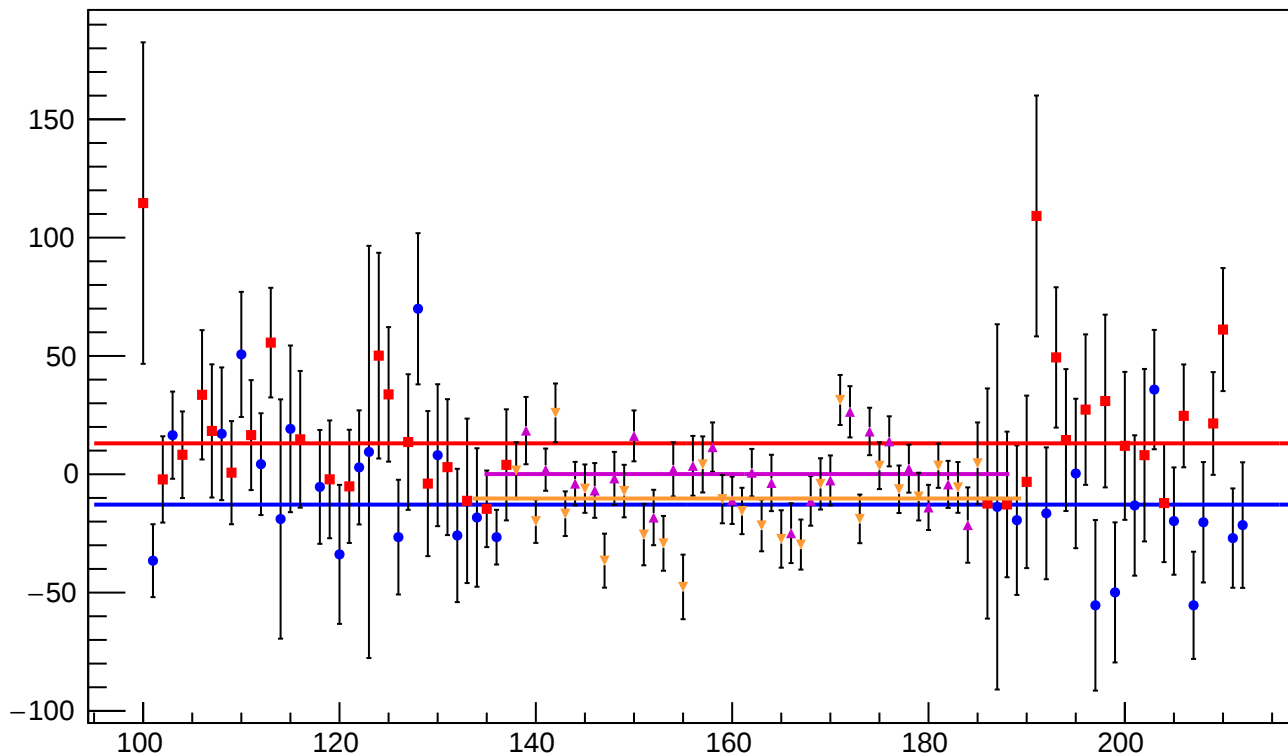


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -12.824 ± 4.523

$\chi^2/\text{NDF}: 34.7/29$

Left Out: -10.238 ± 2.170

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

Right Out: 13.071 ± 4.631

$\chi^2/\text{NDF}: 25.1/32$

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: -0.181 ± 3.236

$\chi^2/\text{NDF}: 75.9/62$

In: -2.480 ± 2.015

$\chi^2/\text{NDF}: 71.1/52$

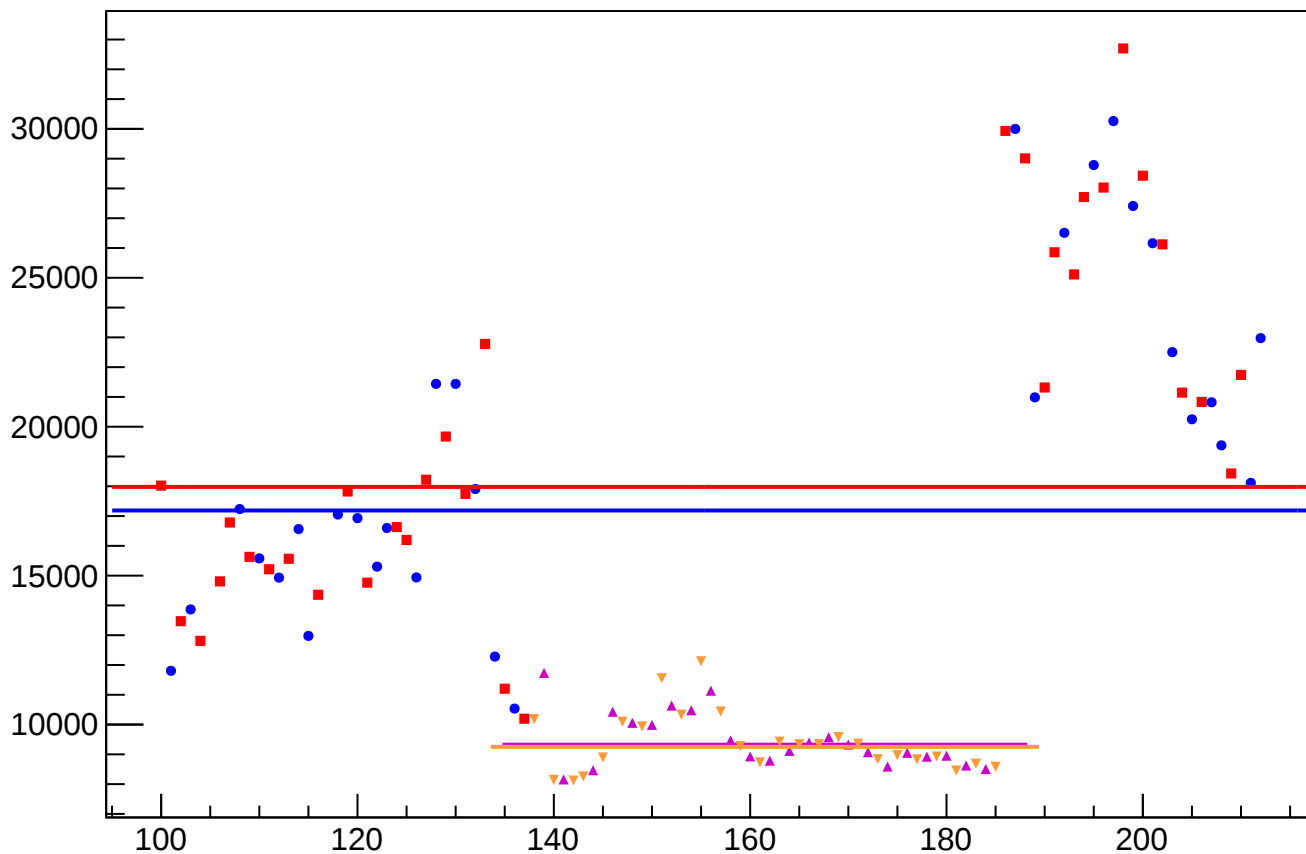
Out: -6.041 ± 1.965

$\chi^2/\text{NDF}: 104.0/57$

All: -4.305 ± 1.407

$\chi^2/\text{NDF}: 176.7/110$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17188.093+/-3.198 χ^2/NDF : 2745598.0/29

Left Out: 9251.811+/-1.535 χ^2/NDF : 332323.3/24

Right Out: 17979.706+/-3.275 χ^2/NDF : 2804864.6/32

Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

Left: 9286.587+/-1.105 χ^2/NDF : 609106.1/47

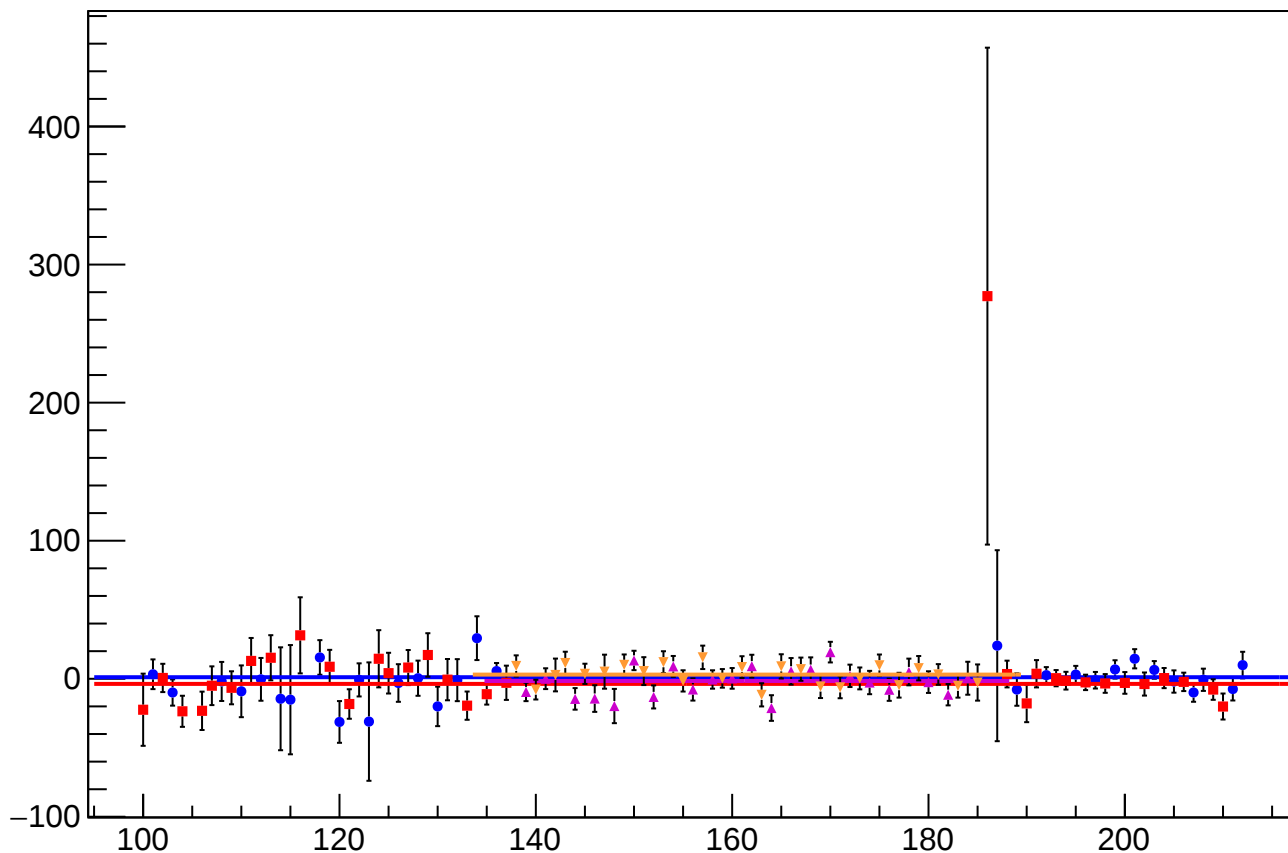
Right: 17574.574+/-2.288 χ^2/NDF : 5580369.0/62

In: 10884.462+/-1.425 χ^2/NDF : 7867098.1/52

Out: 10823.369+/-1.390 χ^2/NDF : 8961652.8/57

All: 10853.152+/-0.995 χ^2/NDF : 16829693.2

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.138 ± 1.711 $\chi^2/\text{NDF}: 25.5/29$

Left Out: 3.027 ± 1.661 $\chi^2/\text{NDF}: 18.6/24$

Right Out: -3.701 ± 1.690 $\chi^2/\text{NDF}: 28.8/32$

Left In: -1.588 ± 1.703 $\chi^2/\text{NDF}: 35.5/22$

Left: 0.777 ± 1.189 $\chi^2/\text{NDF}: 57.8/47$

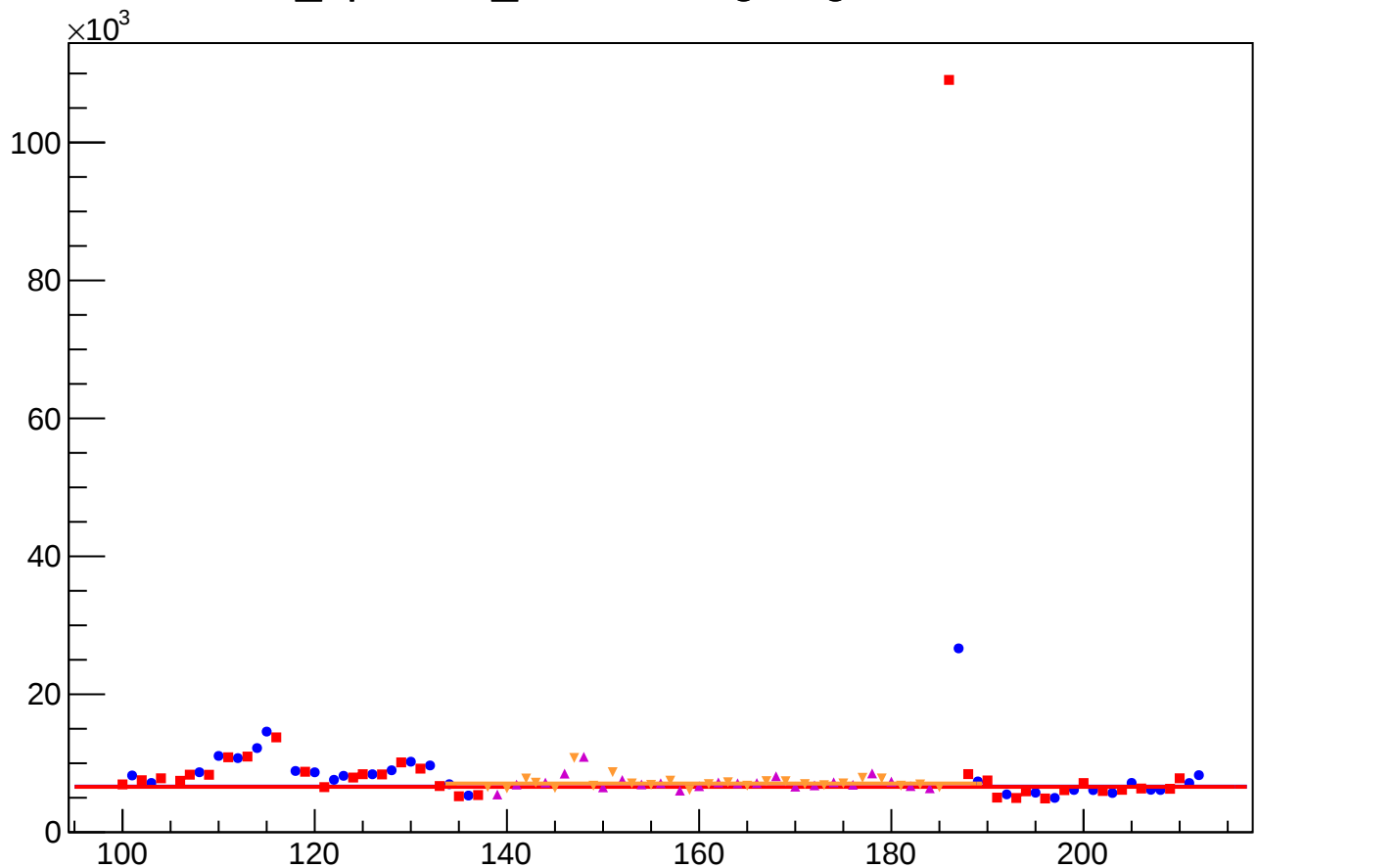
Right: -1.311 ± 1.202 $\chi^2/\text{NDF}: 58.4/62$

In: -0.232 ± 1.207 $\chi^2/\text{NDF}: 62.3/52$

Out: -0.278 ± 1.184 $\chi^2/\text{NDF}: 55.4/57$

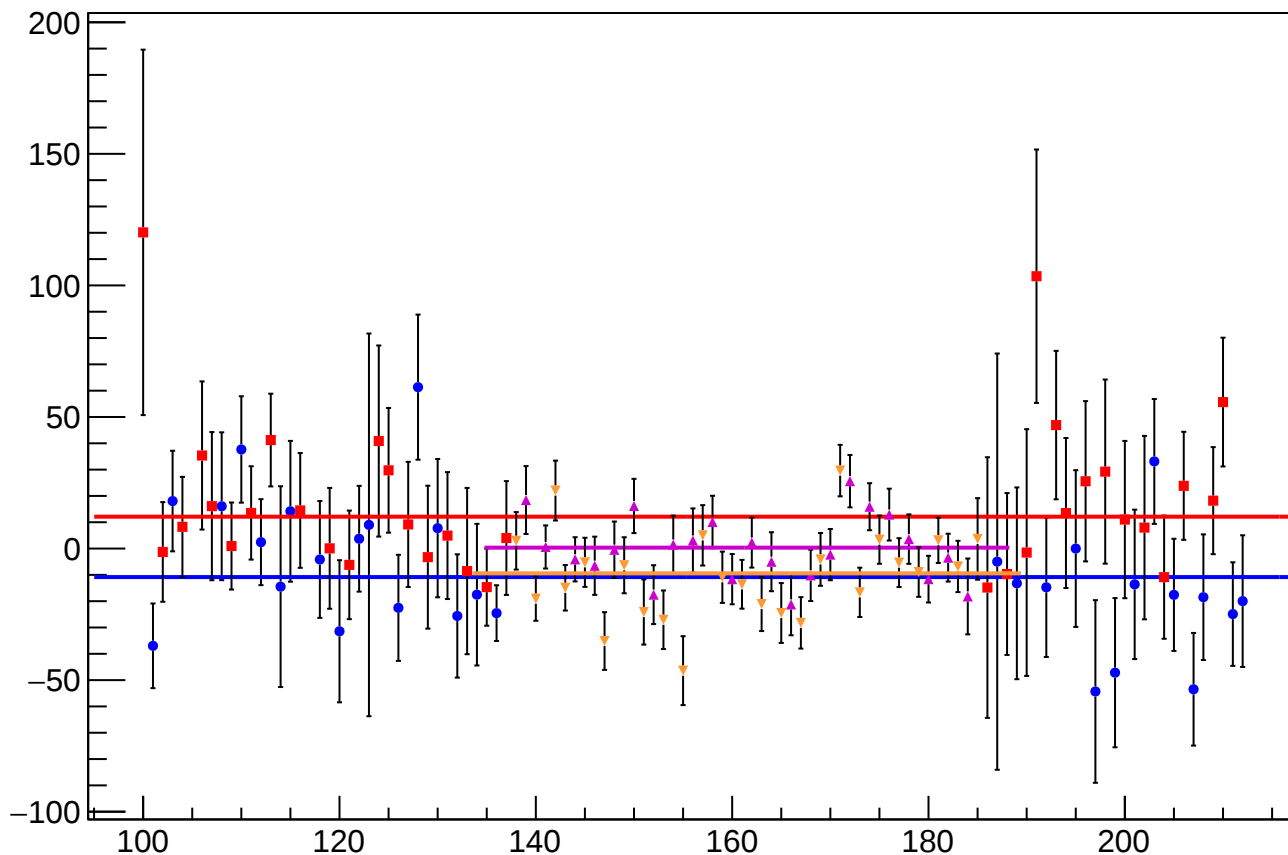
All: -0.255 ± 0.845 $\chi^2/\text{NDF}: 117.7/110$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6613.376+/-1.210	χ^2/NDF : 1602487.8/29	Left: 7040.137+/-0.841	χ^2/NDF : 913008.5/47
Left Out: 7064.457+/-1.174	χ^2/NDF : 386814.9/24	Right: 6596.437+/-0.850	χ^2/NDF : 3743134.0/62
Right Out: 6579.908+/-1.195	χ^2/NDF : 2140258.8/32	In: 6814.943+/-0.853	χ^2/NDF : 2183059.4/52
Left In: 7014.572+/-1.204	χ^2/NDF : 525313.7/22	Out: 6826.439+/-0.838	χ^2/NDF : 2610722.2/57
		All: 6820.798+/-0.598	χ^2/NDF : 4793874.1/11

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -10.839 ± 4.137 χ^2/NDF : 35.9/29

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

Right Out: 12.108 ± 4.195 χ^2/NDF : 24.4/32

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

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

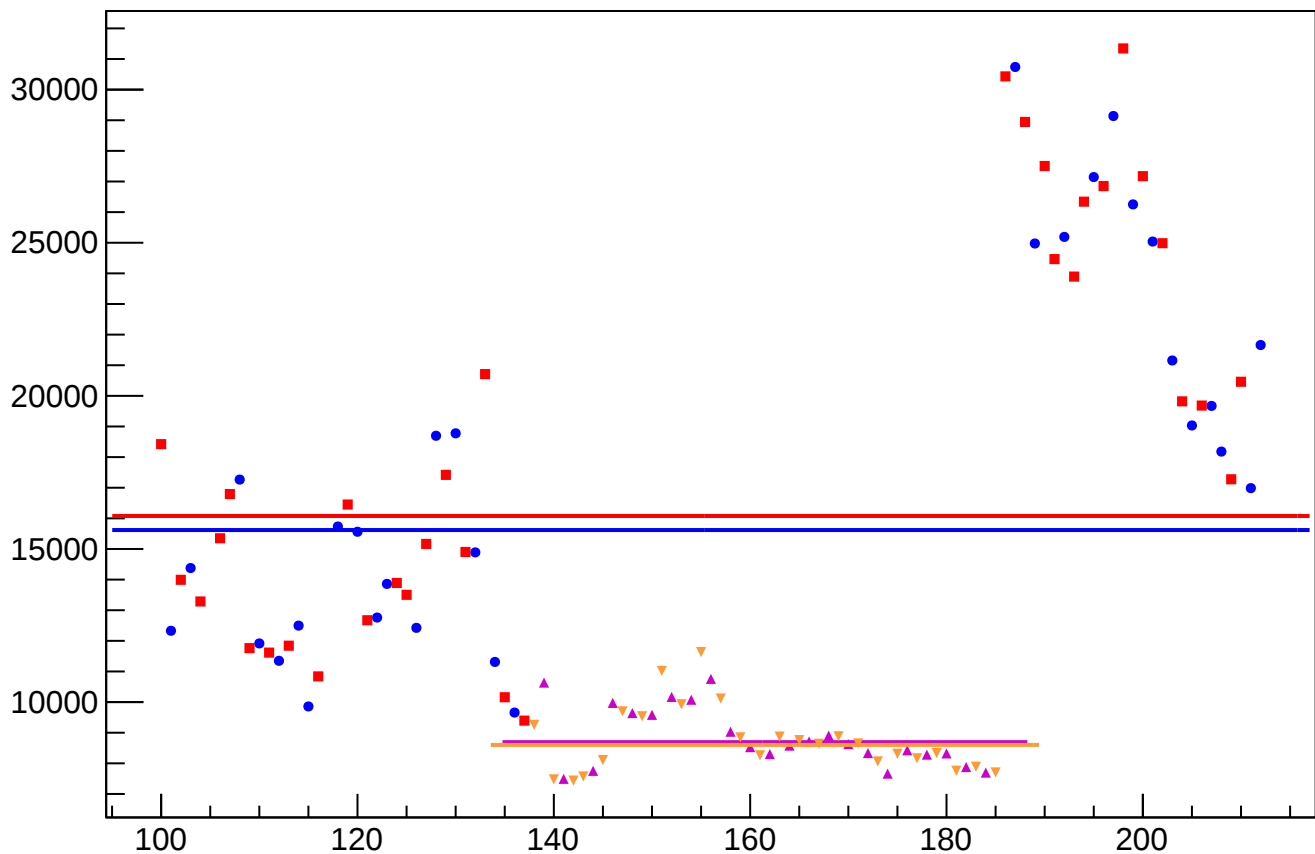
Right: 0.475 ± 2.946 χ^2/NDF : 75.5/62

In: -1.948 ± 1.873 χ^2/NDF : 71.6/52

Out: -5.358 ± 1.821 χ^2/NDF : 104.6/57

All: -3.701 ± 1.306 χ^2/NDF : 177.9/110

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15618.602 $\pm$ 2.925 χ^2 /NDF: 3193234.7/29

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

Right Out: 16077.399 $\pm$ 2.966 χ^2 /NDF: 3555622.0/32

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

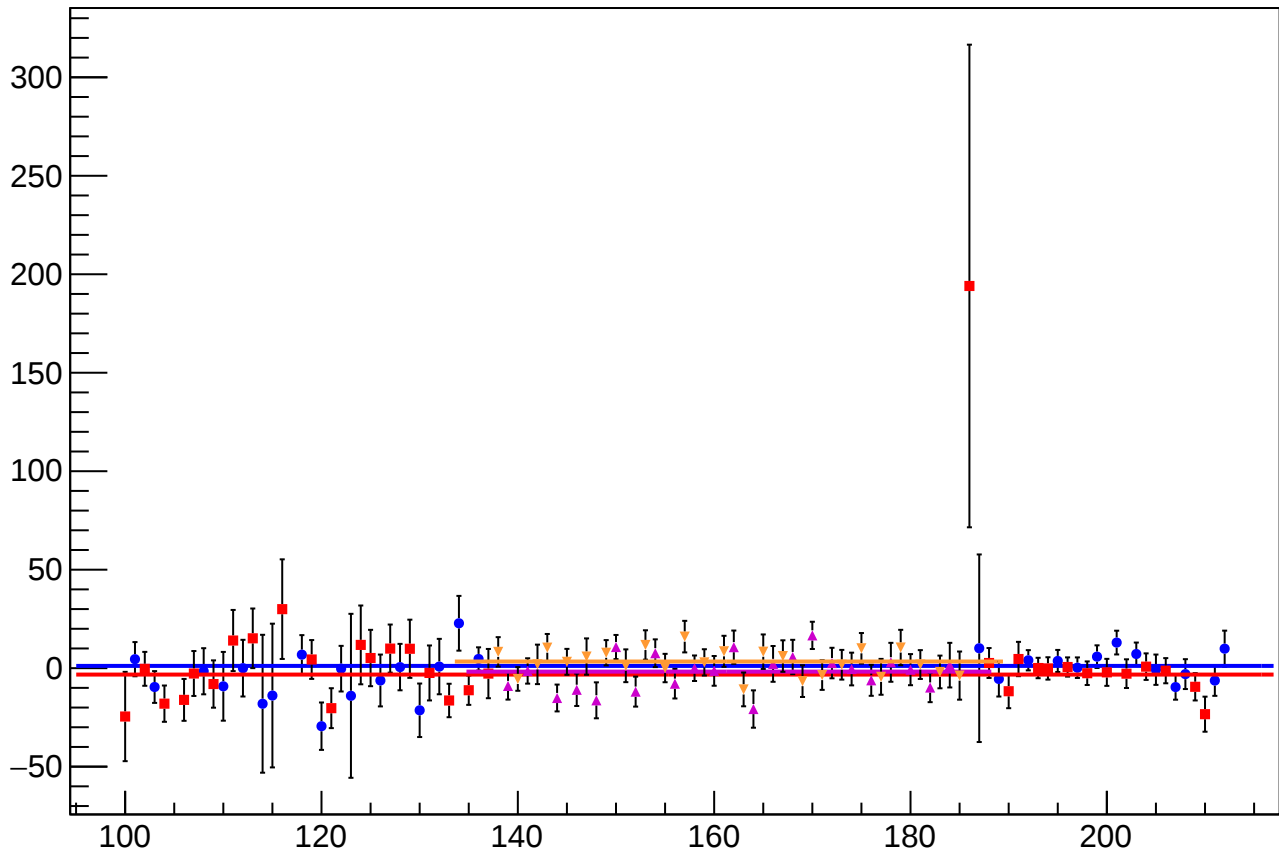
Right: 15844.807 $\pm$ 2.083 χ^2 /NDF: 6760983.5/62

In: 10110.931 $\pm$ 1.324 χ^2 /NDF:8016711.6/52

Out: 10010.257 $\pm$ 1.287 χ^2 /NDF:9148321.4/57

All: 10059.171 $\pm$ 0.923 χ^2 /NDF: 17168003.9

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.149 ± 1.540 χ^2/NDF : 27.3/29

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

Right Out: -3.254 ± 1.499 χ^2/NDF : 32.2/32

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

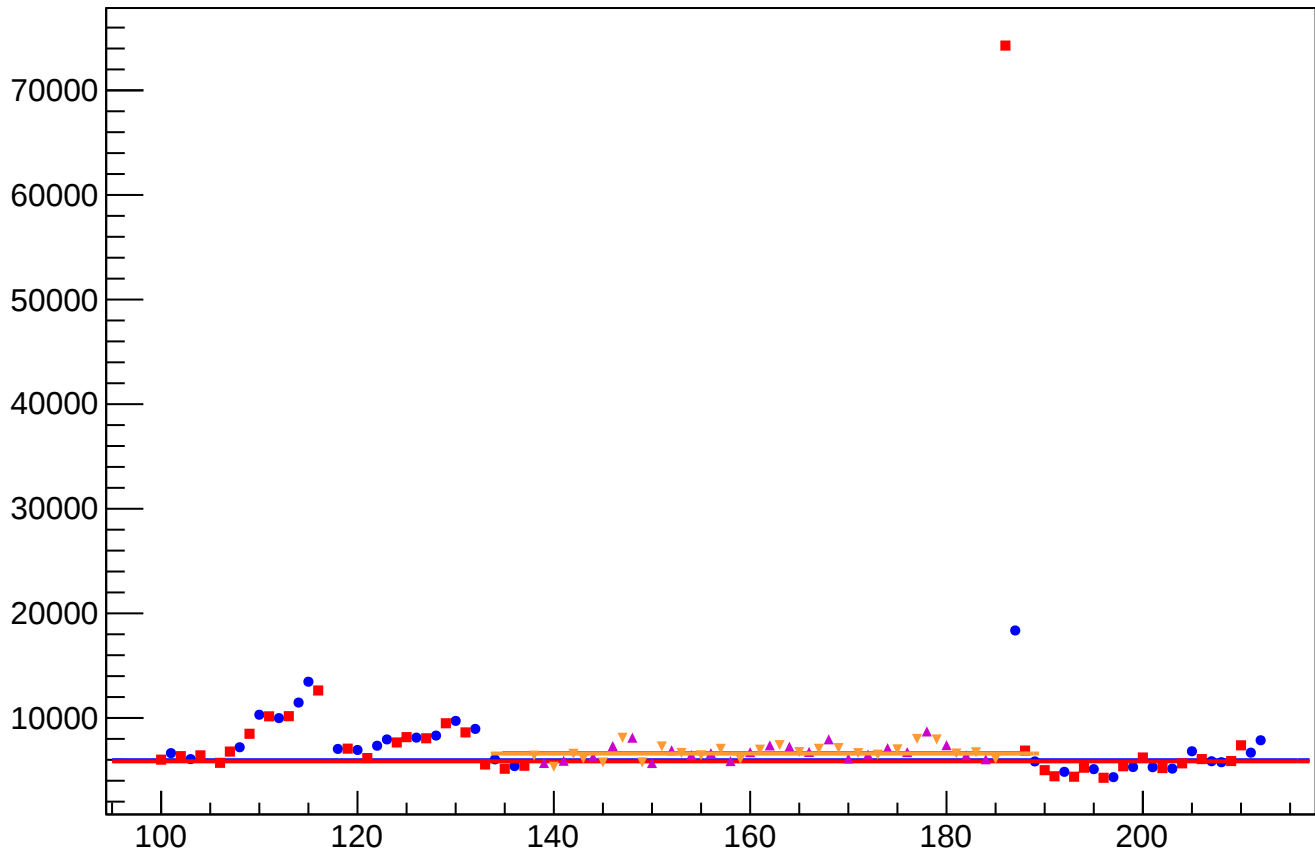
Right: -1.112 ± 1.074 χ^2/NDF : 63.7/62

In: -0.241 ± 1.112 χ^2/NDF : 62.6/52

Out: -0.055 ± 1.078 χ^2/NDF : 58.8/57

All: -0.145 ± 0.774 χ^2/NDF : 121.4/110

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5958.491+/-1.089 χ^2/NDF : 1603176.5/29

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

Right Out: 5851.273+/-1.060 χ^2/NDF : 2194328.4/32

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

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

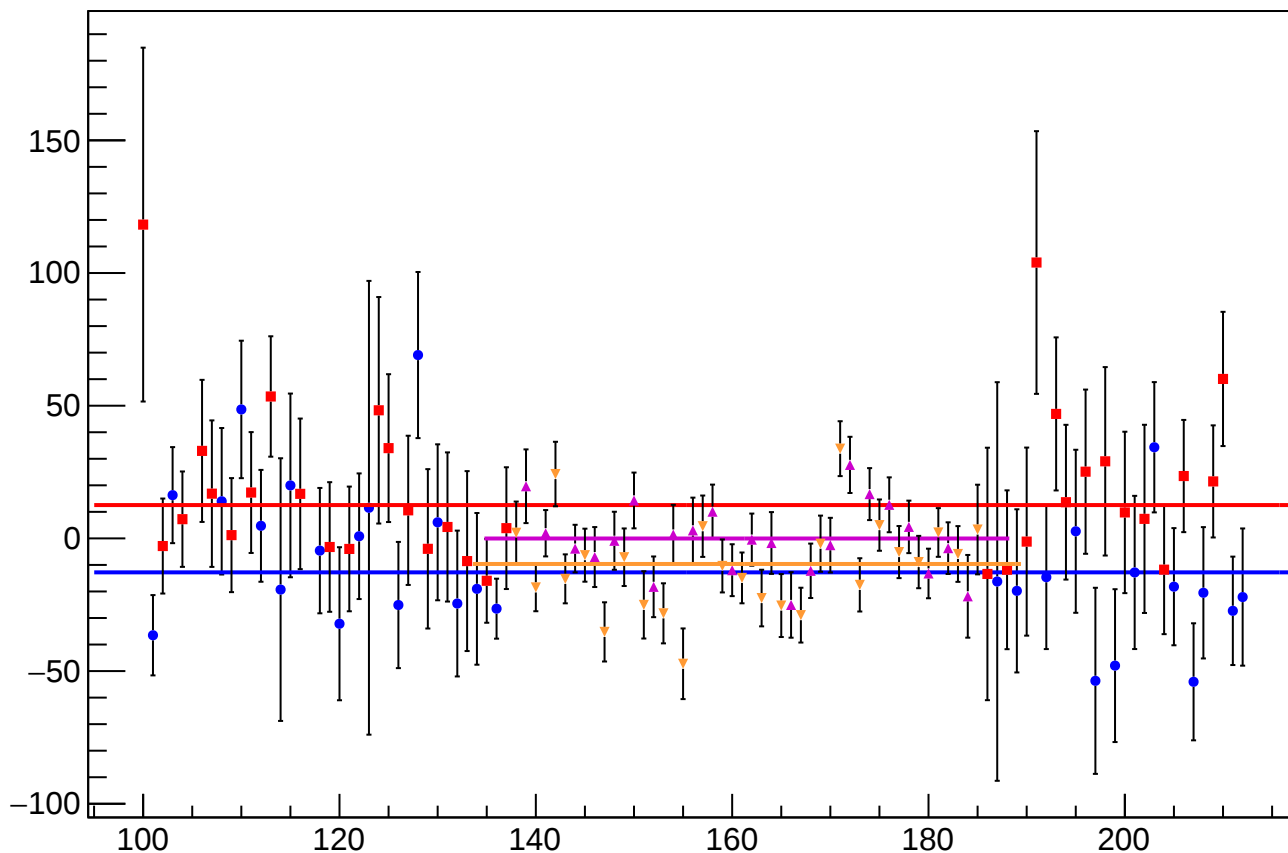
Right: 5903.441+/-0.759 χ^2/NDF : 3802485.4/62

In: 6283.277+/-0.786 χ^2/NDF : 2204722.1/52

Out: 6214.515+/-0.762 χ^2/NDF : 2833024.0/57

All: 6247.839+/-0.547 χ^2/NDF : 5041689.5/111

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -12.800 ± 4.422 $\chi^2/\text{NDF}: 34.5/29$

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

Right Out: 12.558 ± 4.529 $\chi^2/\text{NDF}: 25.3/32$

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

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

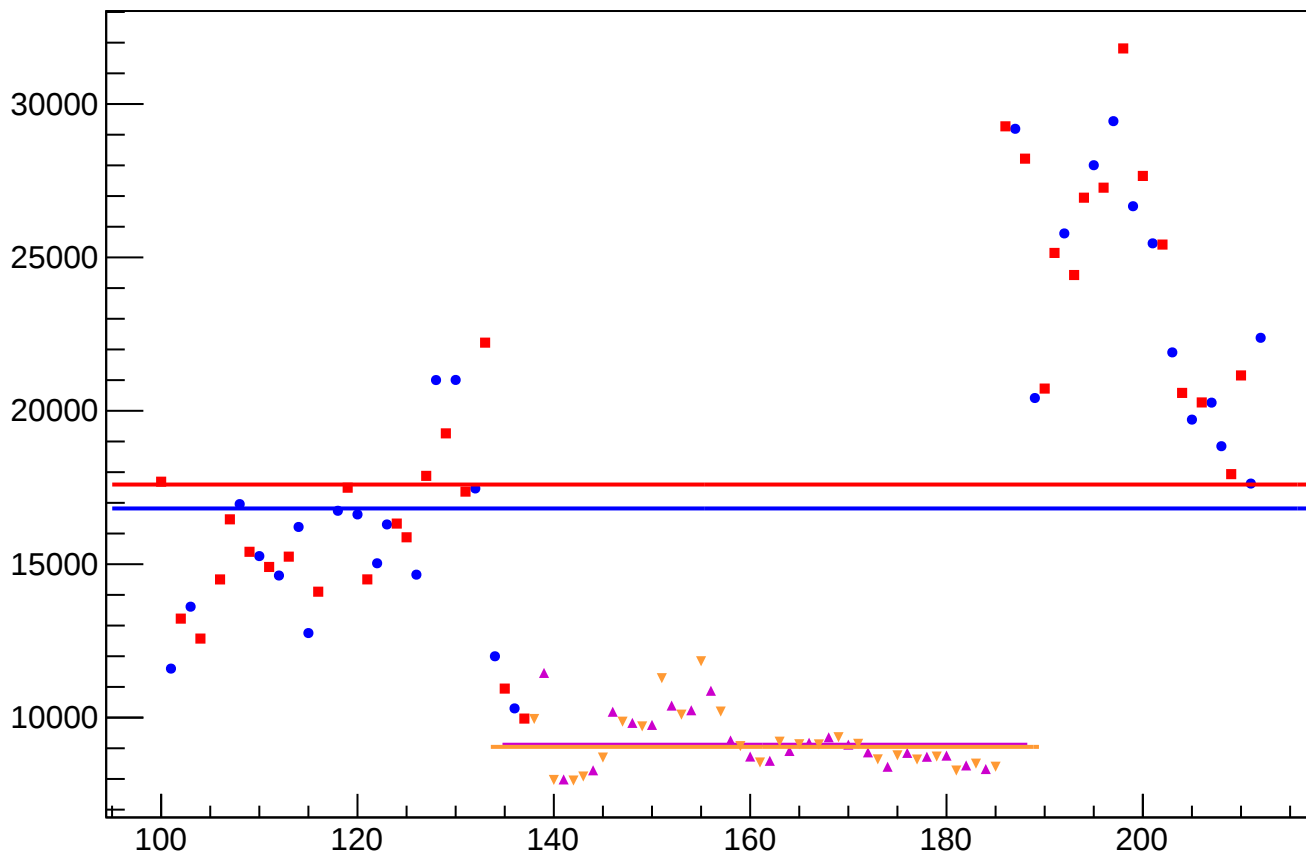
Right: -0.423 ± 3.164 $\chi^2/\text{NDF}: 75.9/62$

In: -2.573 ± 1.970 $\chi^2/\text{NDF}: 72.0/52$

Out: -5.645 ± 1.921 $\chi^2/\text{NDF}: 104.9/57$

All: -4.147 ± 1.375 $\chi^2/\text{NDF}: 178.1/110$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16816.995 $\pm$ 3.127 χ^2 /NDF: 2701824.7/29

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

Right Out: 17596.751 $\pm$ 3.202 χ^2 /NDF: 2755669.6/32

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

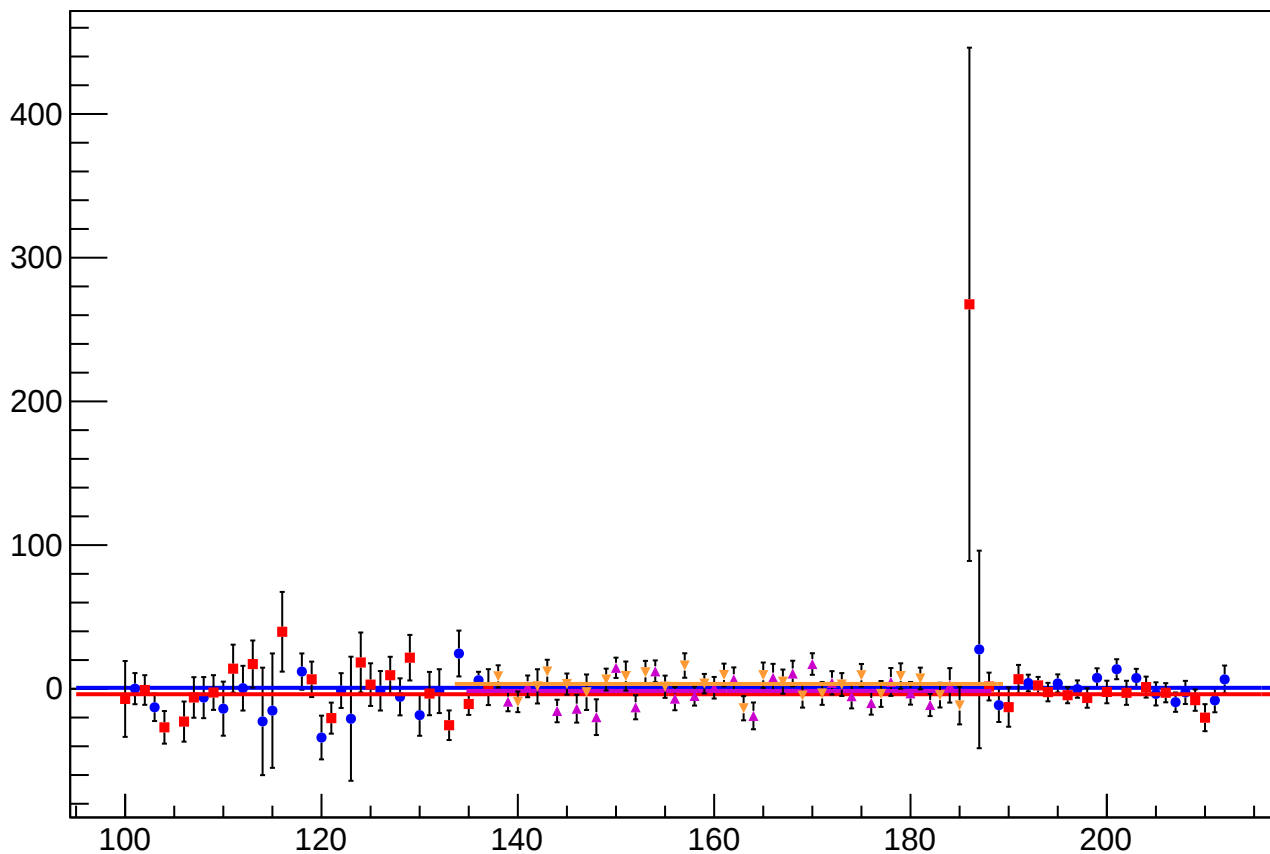
Right: 17197.595 $\pm$ 2.237 χ^2 /NDF: 5487845.1/62

In: 10643.814 $\pm$ 1.393 χ^2 /NDF: 7836220.7/52

Out: 10584.920 $\pm$ 1.359 χ^2 /NDF: 8930860.6/57

All: 10613.633 $\pm$ 0.973 χ^2 /NDF: 16767997.5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.679 ± 1.716 $\chi^2/\text{NDF}: 26.3/29$

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

Right Out: -3.780 ± 1.696 $\chi^2/\text{NDF}: 34.0/32$

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

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

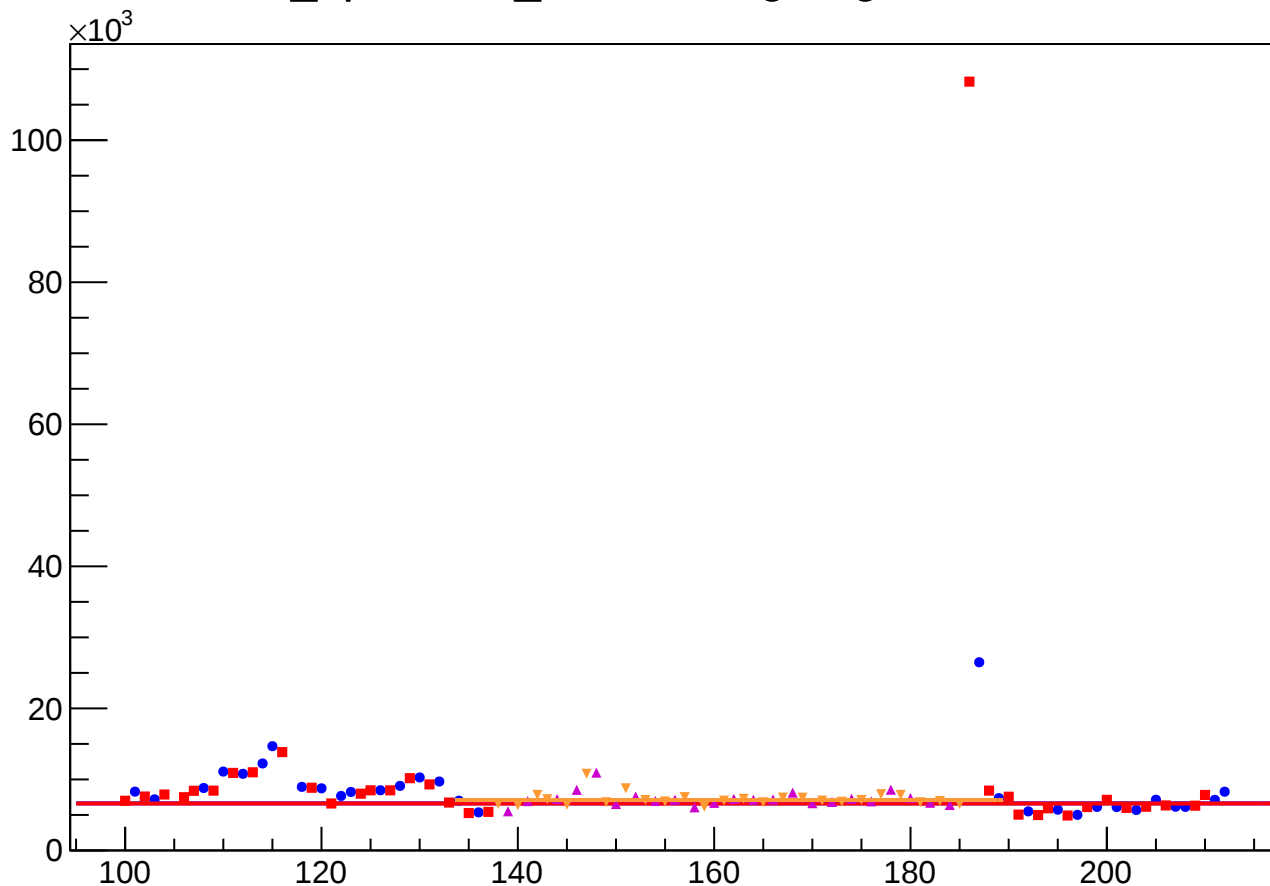
Right: -1.576 ± 1.206 $\chi^2/\text{NDF}: 63.8/62$

In: -0.404 ± 1.211 $\chi^2/\text{NDF}: 63.8/52$

Out: -0.136 ± 1.189 $\chi^2/\text{NDF}: 62.5/57$

All: -0.267 ± 0.849 $\chi^2/\text{NDF}: 126.4/110$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6634.017 $\pm$ 1.213 χ^2/NDF : 1609149.4/29

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

Right Out: 6605.030 $\pm$ 1.199 χ^2/NDF : 2144233.3/32

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

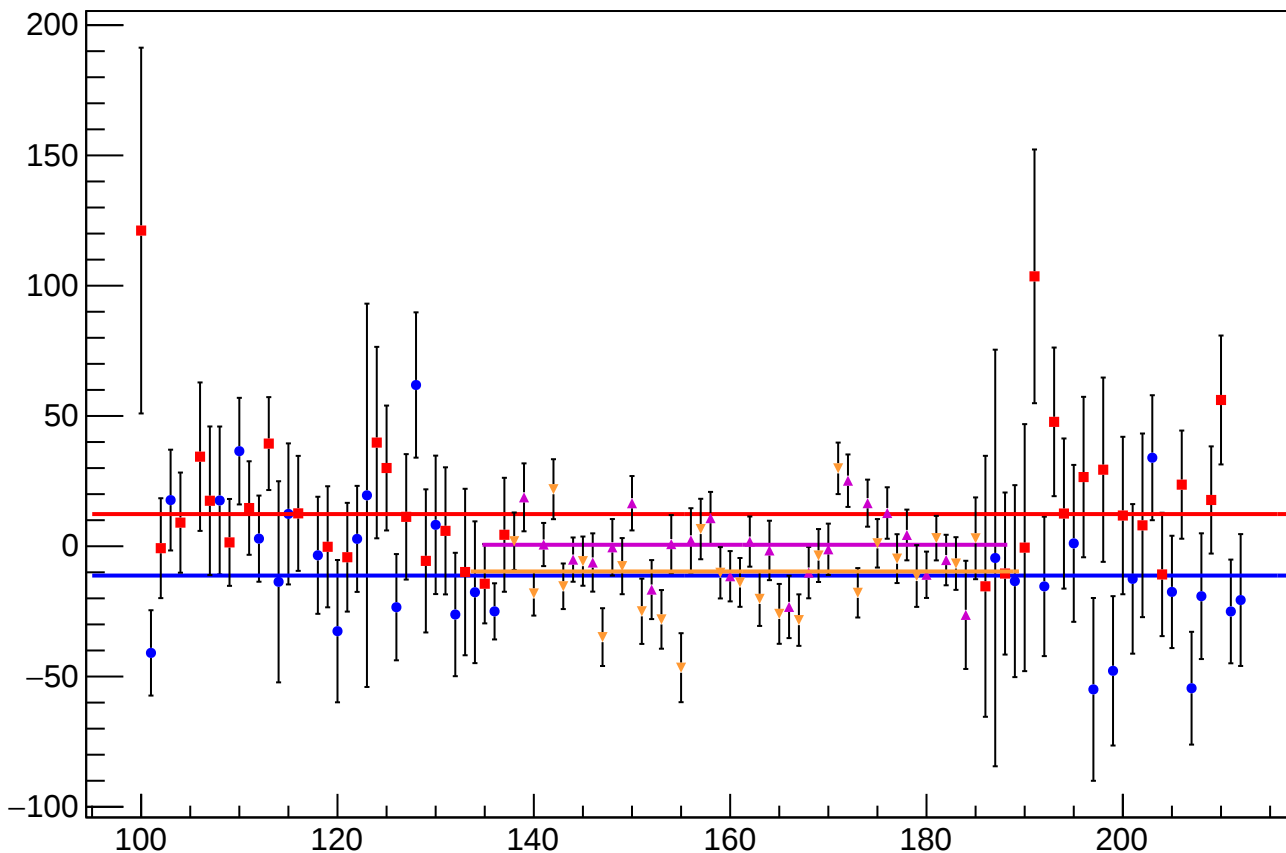
Right: 6619.355 $\pm$ 0.853 χ^2/NDF : 3753671.4/62

In: 6841.353 $\pm$ 0.857 χ^2/NDF : 2184770.4/52

Out: 6854.837 $\pm$ 0.841 χ^2/NDF : 2611490.9/57

All: 6848.219 $\pm$ 0.600 χ^2/NDF : 4796387.4/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -11.247 $\pm$ 4.189 χ^2/NDF : 36.5/29

Left Out: -9.670 $\pm$ 2.061 χ^2/NDF : 57.9/24

Right Out: 12.348 $\pm$ 4.251 χ^2/NDF : 23.4/32

Left In: 0.564 $\pm$ 2.144 χ^2/NDF : 29.7/22

Left: -4.755 $\pm$ 1.486 χ^2/NDF : 99.5/47

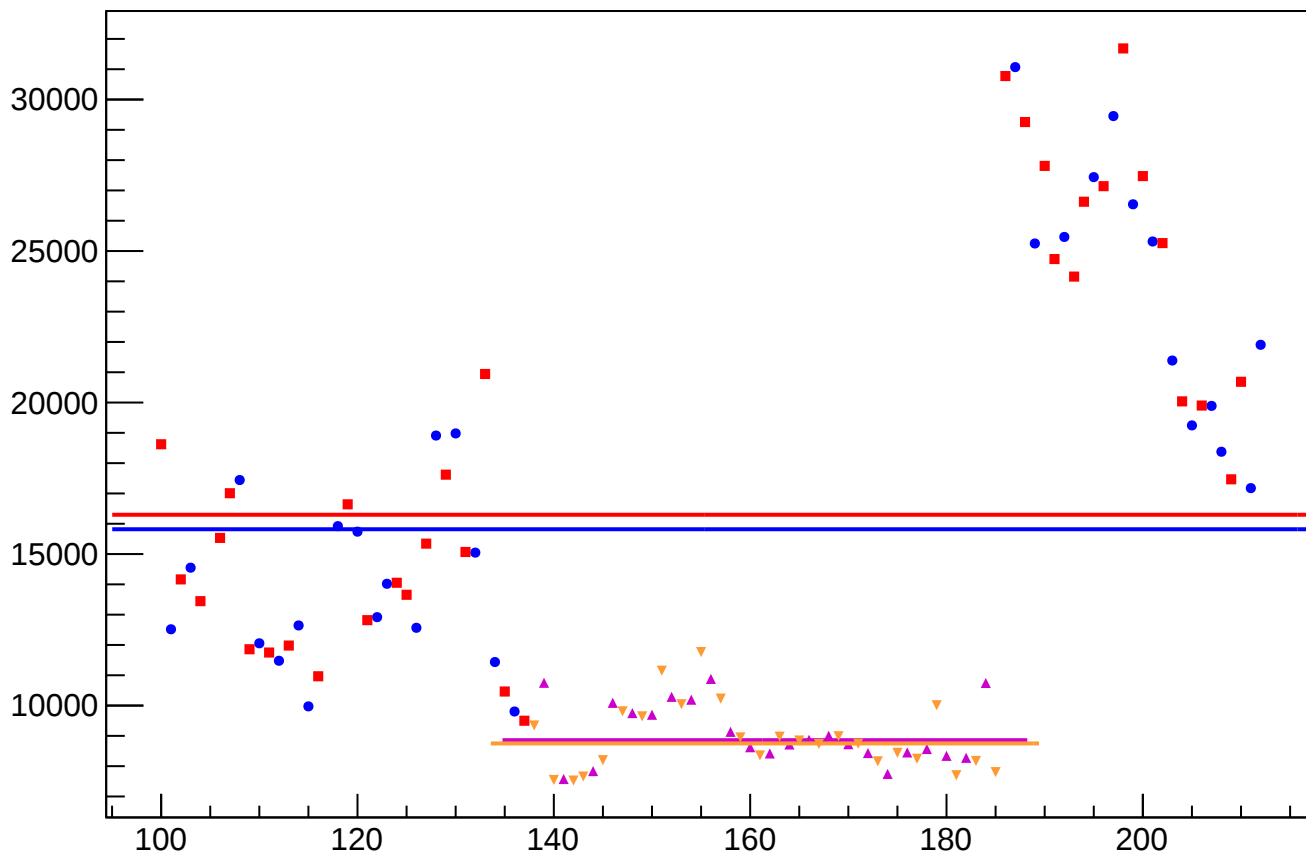
Right: 0.379 $\pm$ 2.984 χ^2/NDF : 75.5/62

In: -1.887 $\pm$ 1.908 χ^2/NDF : 72.5/52

Out: -5.481 $\pm$ 1.854 χ^2/NDF : 103.0/57

All: -3.735 $\pm$ 1.330 χ^2/NDF : 177.4/110

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15818.647 $\pm$ 2.962 χ^2 /NDF: 3170903.5/29

Left Out: 8750.420 $\pm$ 1.457 χ^2 /NDF: 463880.1/24

Right Out: 16297.168 $\pm$ 3.006 χ^2 /NDF: 3518769.4/32

Left In: 8857.329 $\pm$ 1.516 χ^2 /NDF: 361778.8/22

Left: 8801.764 $\pm$ 1.050 χ^2 /NDF: 828244.3/47

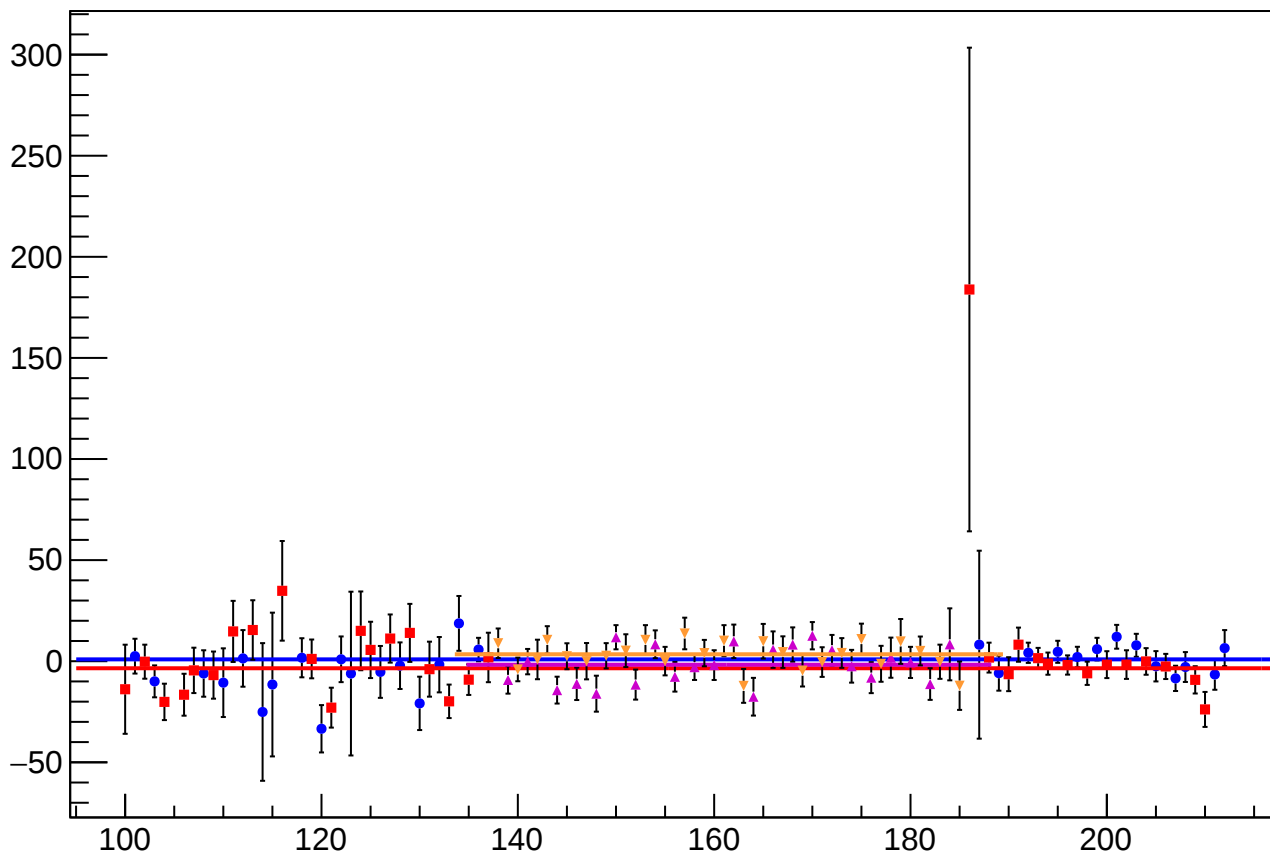
Right: 16054.431 $\pm$ 2.110 χ^2 /NDF: 6702529.5/62

In: 10301.746 $\pm$ 1.349 χ^2 /NDF: 7908893.8/52

Out: 10186.418 $\pm$ 1.311 χ^2 /NDF: 9087039.6/57

All: 10242.423 $\pm$ 0.940 χ^2 /NDF: 16999690.6

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.913 ± 1.502 χ^2/NDF : 29.2/29

Left Out: 3.433 ± 1.526 χ^2/NDF : 16.2/24

Right Out: -3.485 ± 1.461 χ^2/NDF : 37.2/32

Left In: -1.734 ± 1.586 χ^2/NDF : 33.6/22

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

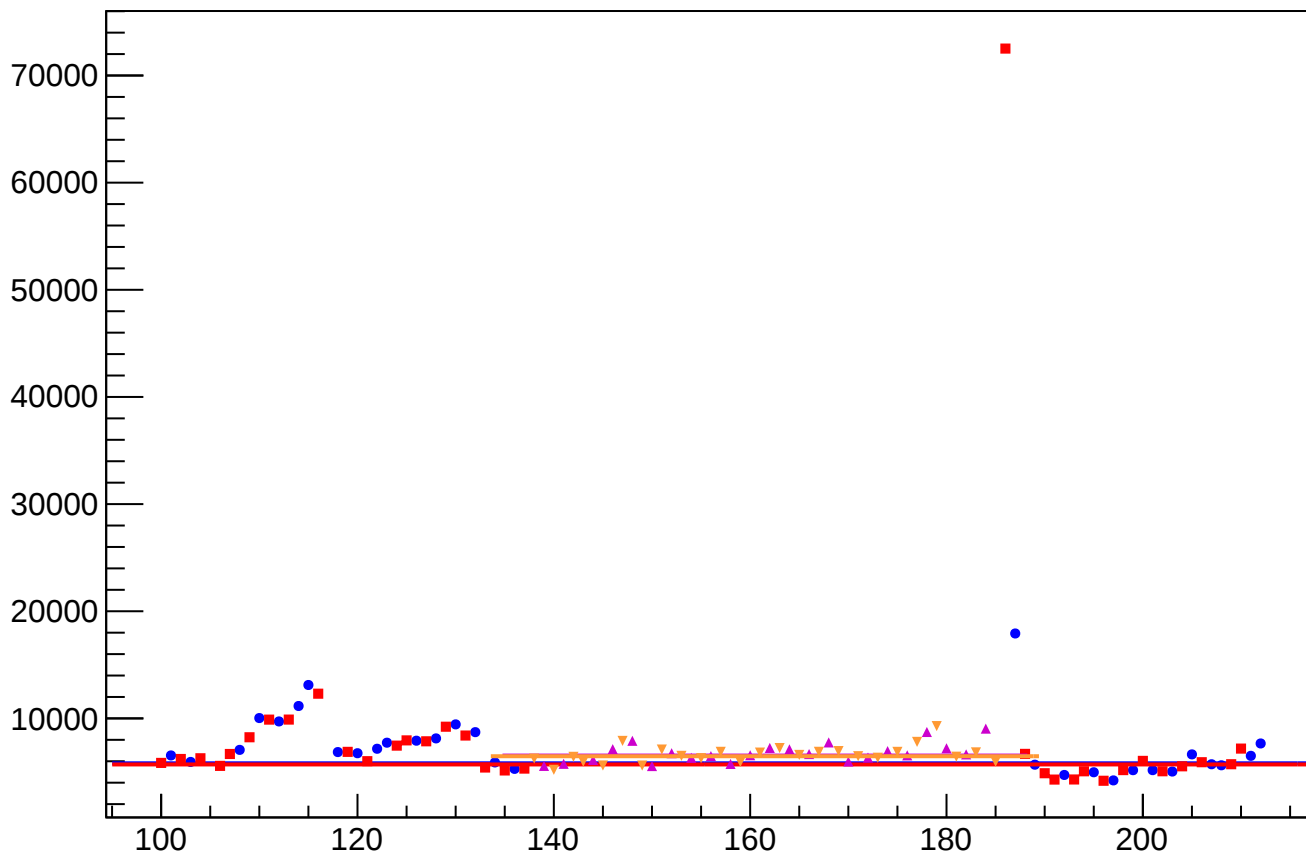
Right: -1.346 ± 1.047 χ^2/NDF : 70.8/62

In: -0.338 ± 1.090 χ^2/NDF : 64.3/52

Out: -0.176 ± 1.055 χ^2/NDF : 64.2/57

All: -0.255 ± 0.758 χ^2/NDF : 128.4/110

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5809.011+/-1.062

χ^2/NDF : 1608162.9/29

Left Out: 6468.872+/-1.079

χ^2/NDF : 487187.3/24

Right Out: 5701.825+/-1.033

χ^2/NDF : 2184060.5/32

Left In: 6530.954+/-1.121

χ^2/NDF : 464668.6/22

Left: 6498.713+/-0.777 χ^2/NDF : 953447.7/47

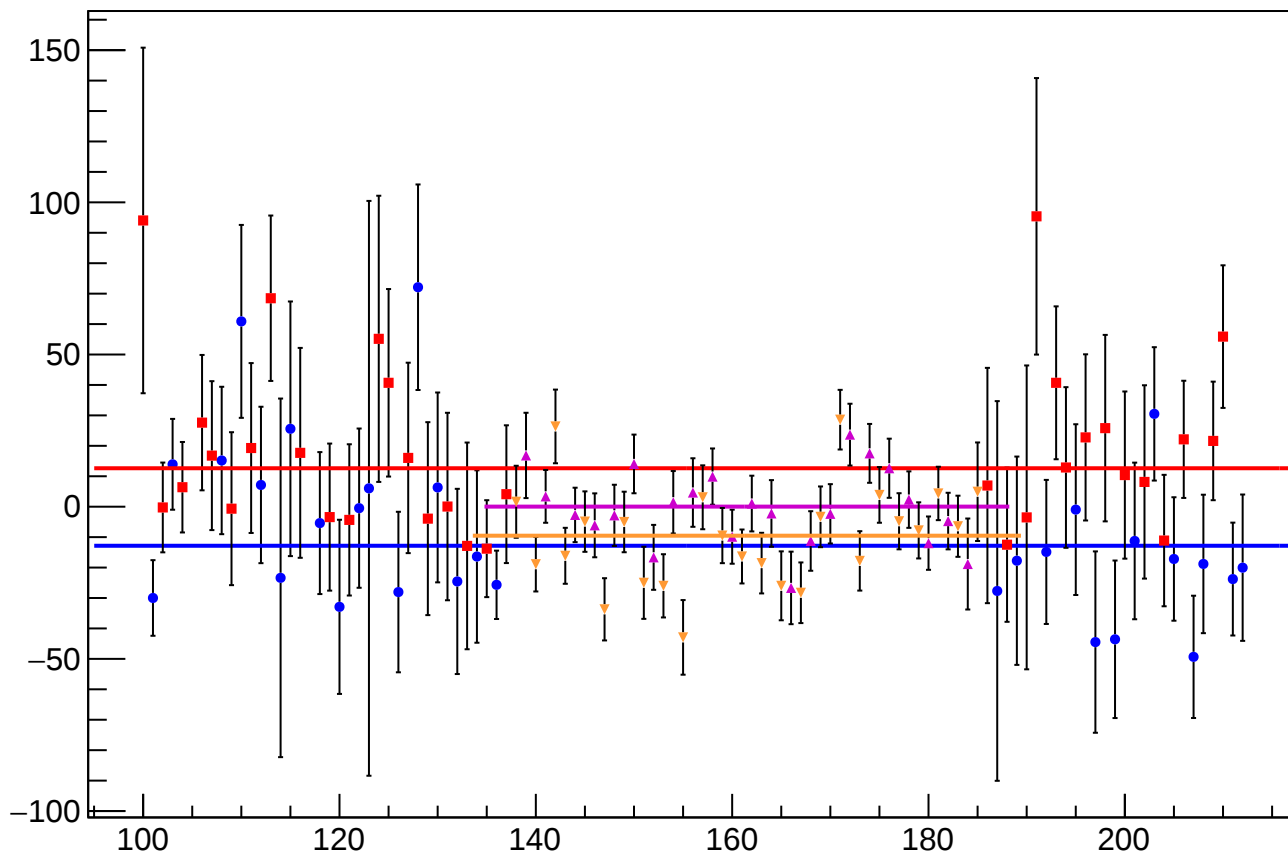
Right: 5753.949+/-0.740 χ^2/NDF : 3797459.0/62

In: 6150.283+/-0.771 χ^2/NDF : 2291390.4/52

Out: 6068.730+/-0.746 χ^2/NDF : 2934975.8/57

All: 6108.170+/-0.536 χ^2/NDF : 5232144.0/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.835 ± 4.221 χ^2/NDF : 33.3/29

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

Right Out: 12.631 ± 4.343 χ^2/NDF : 25.6/32

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

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

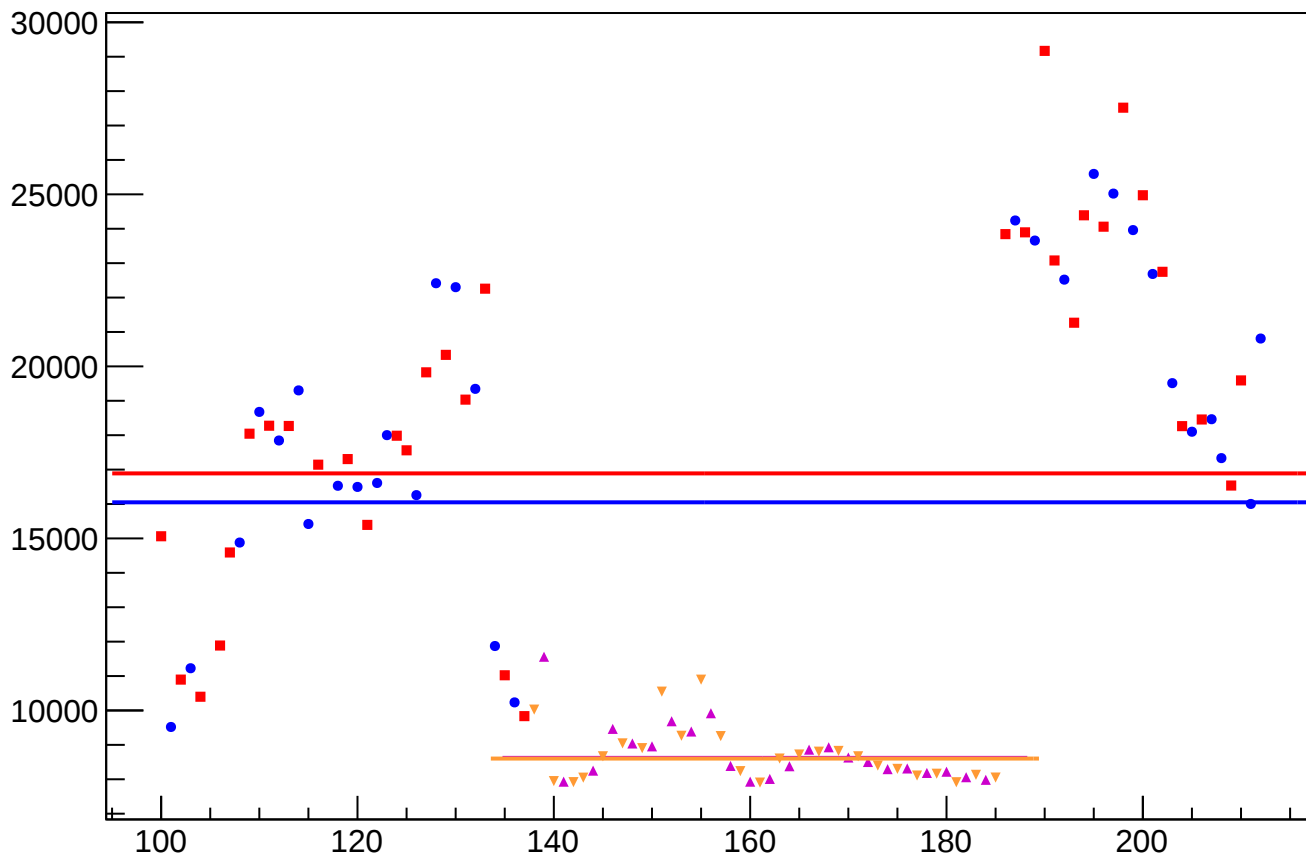
Right: -0.465 ± 3.027 χ^2/NDF : 76.6/62

In: -2.487 ± 1.866 χ^2/NDF : 70.6/52

Out: -5.602 ± 1.828 χ^2/NDF : 106.6/57

All: -4.076 ± 1.306 χ^2/NDF : 178.7/110

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16049.054 $\pm$ 2.984 χ^2 /NDF: 2753959.2/29

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

Right Out: 16889.779 $\pm$ 3.071 χ^2 /NDF: 2690463.9/32

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

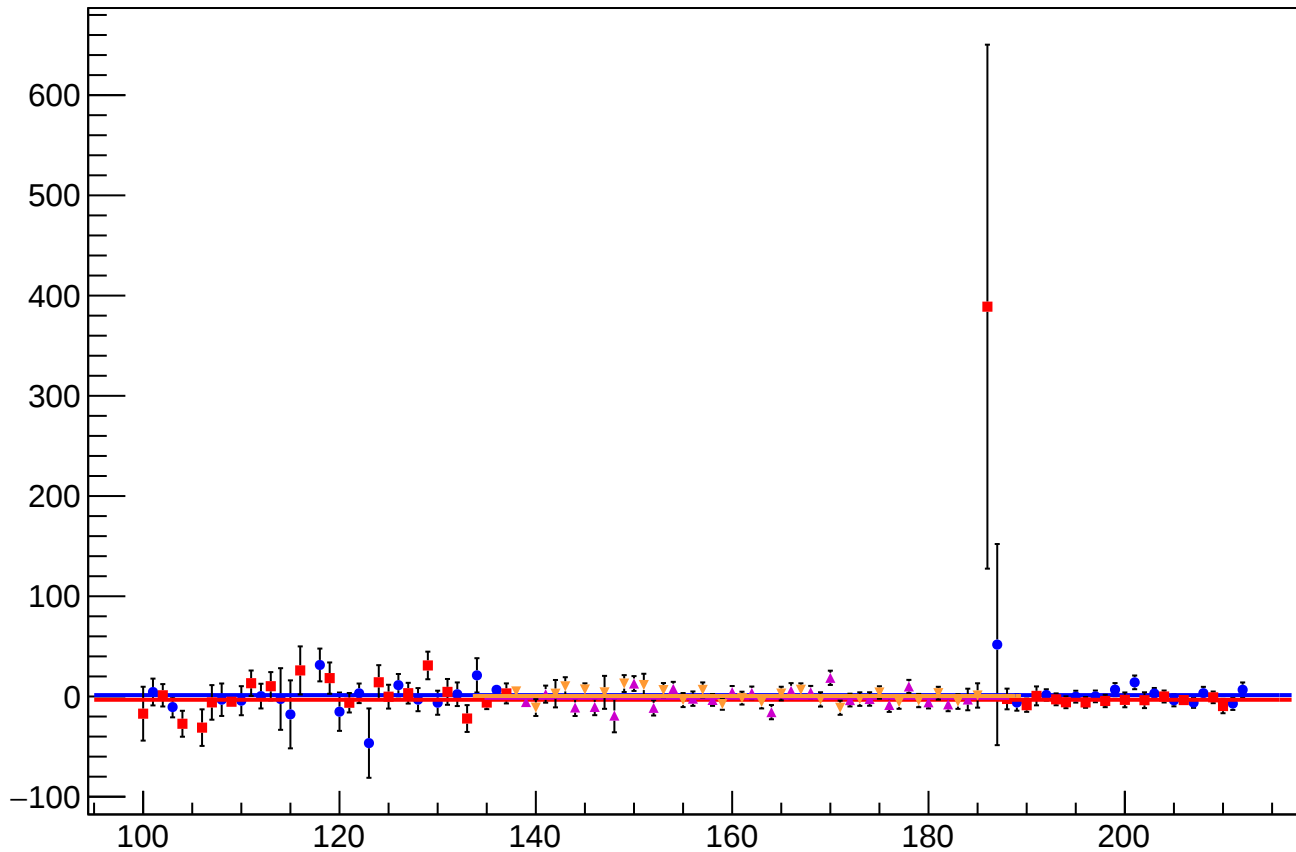
Right: 16457.424 $\pm$ 2.140 χ^2 /NDF: 5482970.1/62

In: 10073.156 $\pm$ 1.319 χ^2 /NDF: 7967936.9/52

Out: 10070.389 $\pm$ 1.293 χ^2 /NDF: 8932928.3/57

All: 10071.744 $\pm$ 0.923 χ^2 /NDF: 16900867.4

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.377 ± 1.498 $\chi^2/\text{NDF}: 22.7/29$

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

Right Out: -3.271 ± 1.443 $\chi^2/\text{NDF}: 27.9/32$

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

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

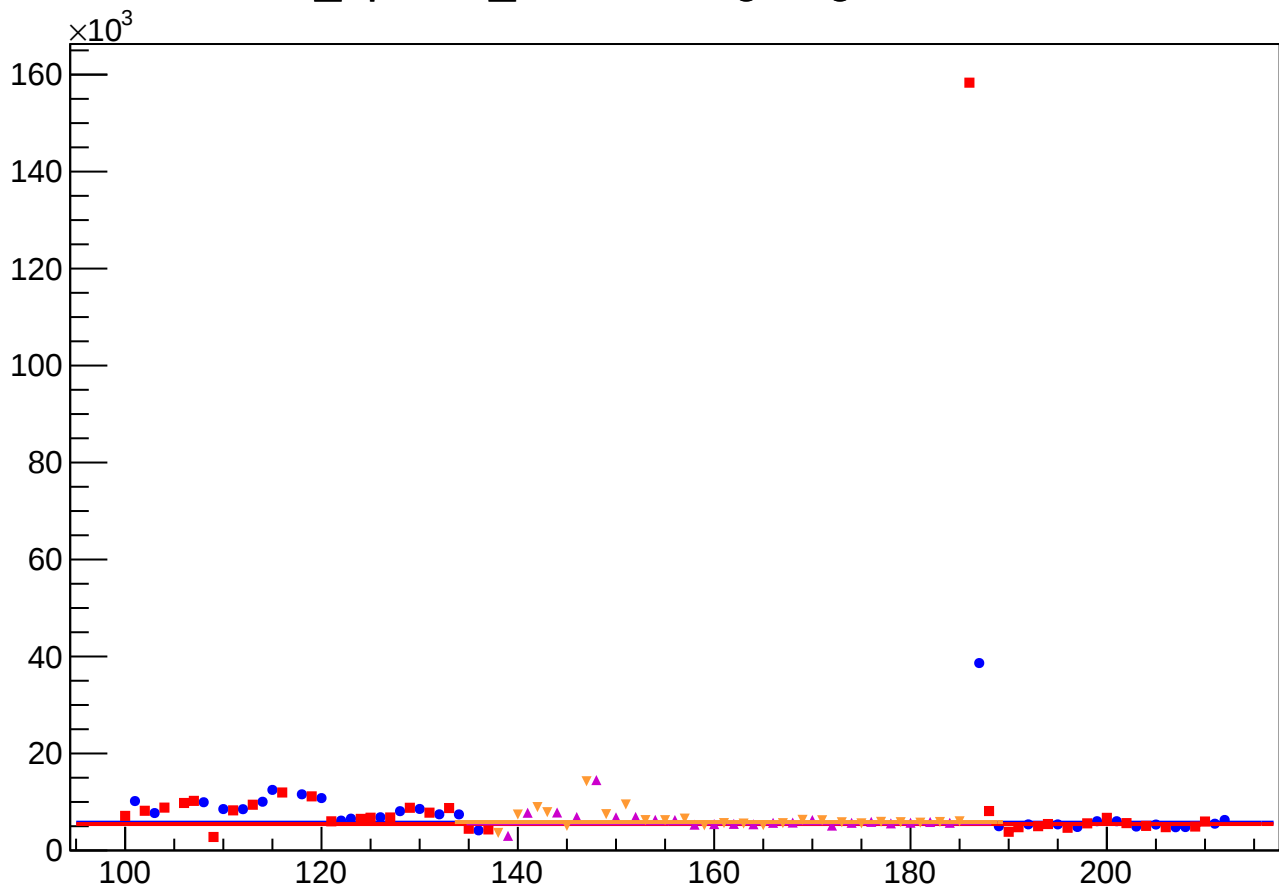
Right: -1.034 ± 1.039 $\chi^2/\text{NDF}: 55.6/62$

In: -0.045 ± 1.025 $\chi^2/\text{NDF}: 57.4/52$

Out: -1.364 ± 1.012 $\chi^2/\text{NDF}: 50.9/57$

All: -0.713 ± 0.720 $\chi^2/\text{NDF}: 109.2/110$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5730.720 $\pm$ 1.059 χ^2/NDF : 2123557.5/29

Left Out: 5858.642 $\pm$ 1.004 χ^2/NDF : 1691344.1/24

Right Out: 5446.077 $\pm$ 1.021 χ^2/NDF : 3459271.2/32

Left In: 5596.879 $\pm$ 0.994 χ^2/NDF : 2089750.1/22

Left: 5726.555 $\pm$ 0.706 χ^2/NDF : 3815425.5/47

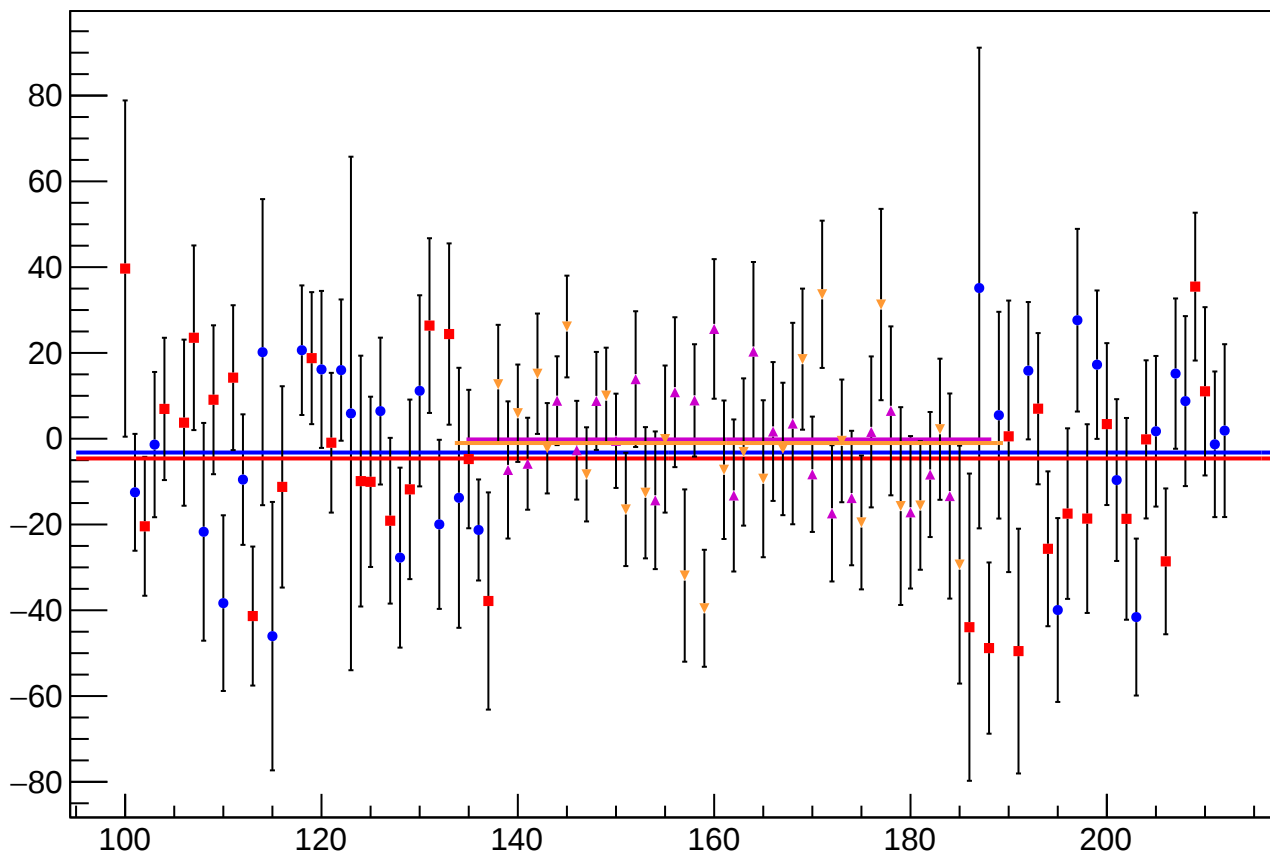
Right: 5583.073 $\pm$ 0.735 χ^2/NDF : 5620271.5/62

In: 5659.562 $\pm$ 0.725 χ^2/NDF : 4221792.7/52

Out: 5655.818 $\pm$ 0.716 χ^2/NDF : 5233702.6/57

All: 5657.665 $\pm$ 0.509 χ^2/NDF : 9455508.9/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.221 ± 3.465 χ^2/NDF : 31.3/29

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

Right Out: -4.608 ± 3.421 χ^2/NDF : 40.6/32

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

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

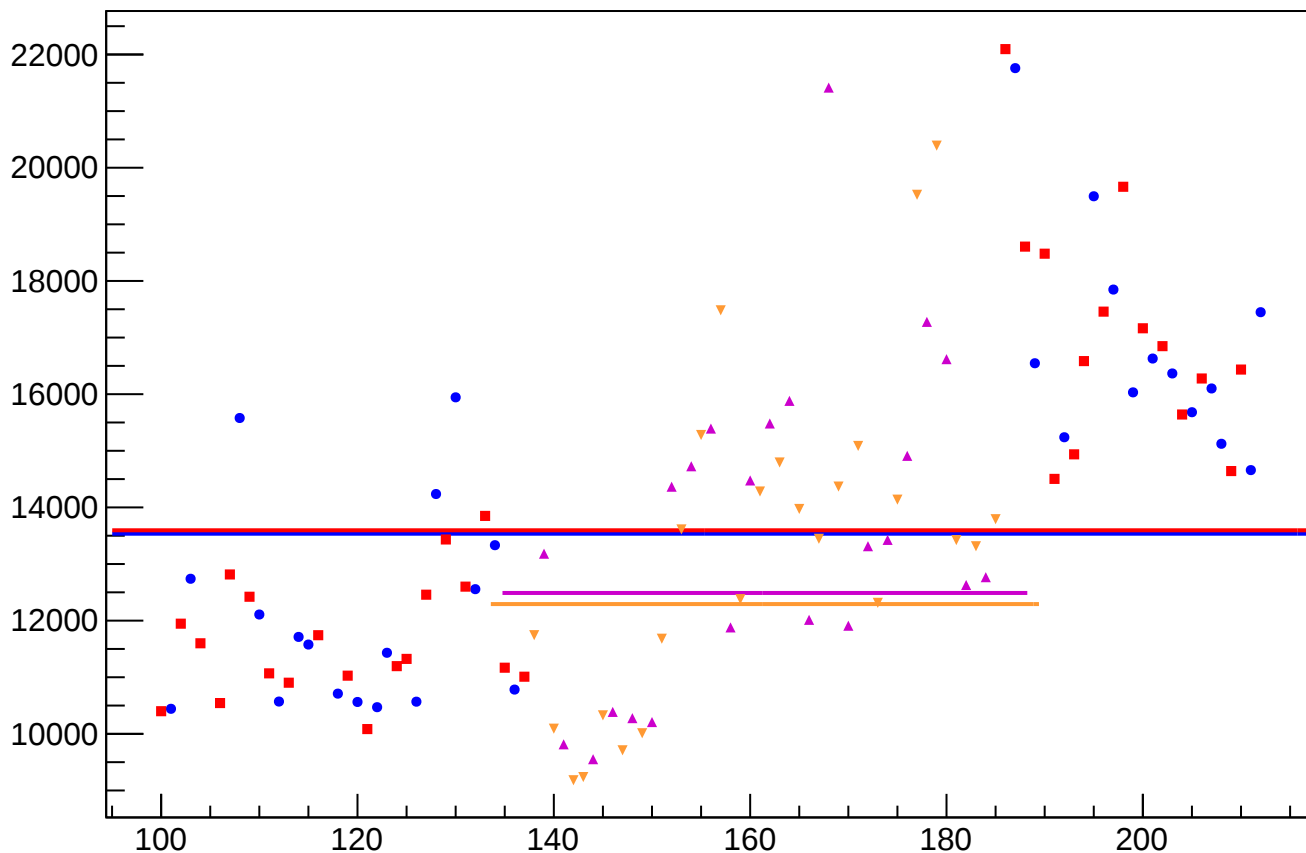
Right: -3.924 ± 2.434 χ^2/NDF : 72.0/62

In: -1.512 ± 2.297 χ^2/NDF : 44.1/52

Out: -2.538 ± 2.230 χ^2/NDF : 74.7/57

All: -2.040 ± 1.600 χ^2/NDF : 118.9/110

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13535.665 $\pm$ 2.450

χ^2 /NDF: 1260260.1/29

Left: 12386.599 $\pm$ 1.501

χ^2 /NDF: 2861298.1/47

Left Out: 12292.583 $\pm$ 2.080

χ^2 /NDF: 1502548.3/24

Right: 13566.153 $\pm$ 1.721

χ^2 /NDF: 2579674.3/62

Right Out: 13595.862 $\pm$ 2.419

χ^2 /NDF: 1319108.5/32

In: 12948.706 $\pm$ 1.624

χ^2 /NDF: 2717089.3/52

Out: 12846.633 $\pm$ 1.577

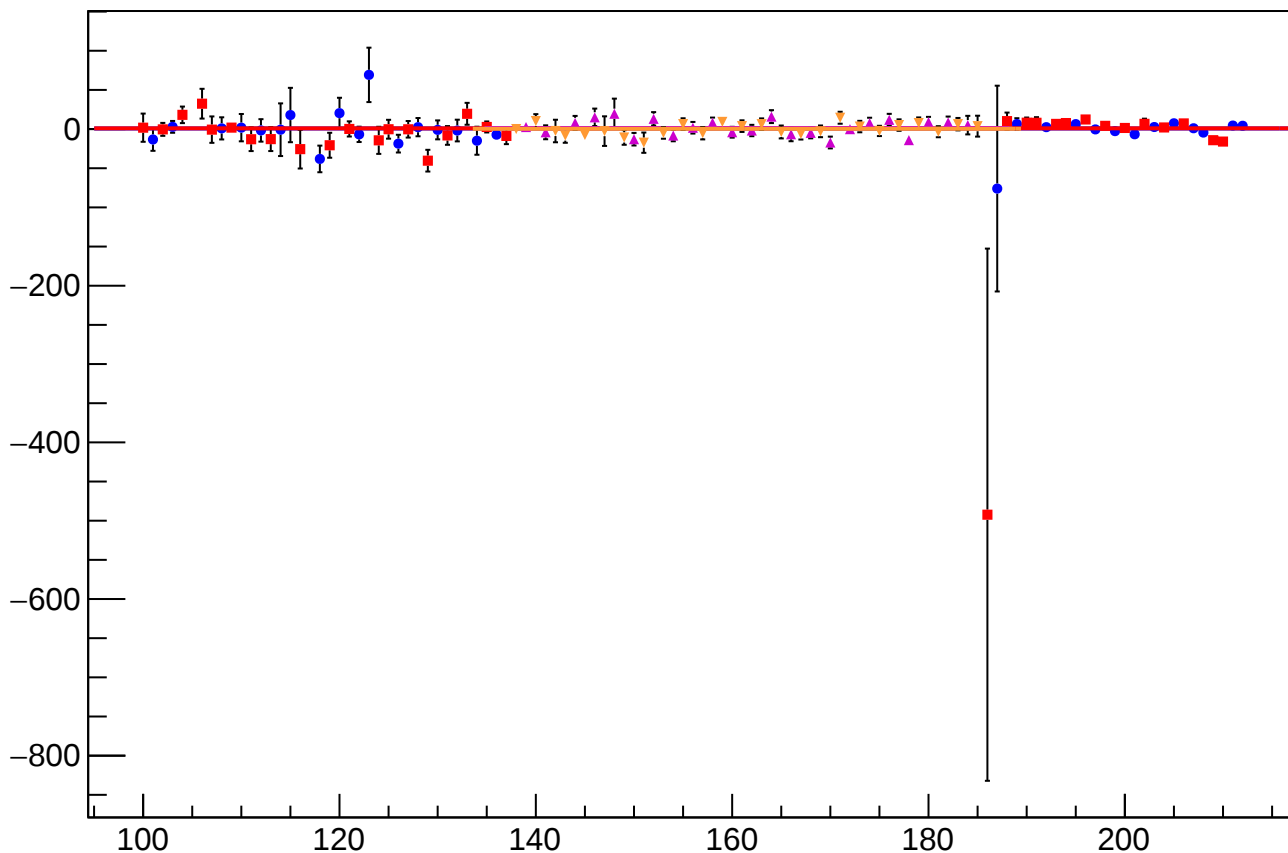
χ^2 /NDF: 2988558.9/57

Left In: 12488.821 $\pm$ 2.169

χ^2 /NDF: 1354485.4/22

All: 12896.172 $\pm$ 1.131 χ^2 /NDF: 5707681.3/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.750 ± 1.226 $\chi^2/\text{NDF}: 28.8/29$

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

Right Out: 0.938 ± 1.231 $\chi^2/\text{NDF}: 67.0/32$

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

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

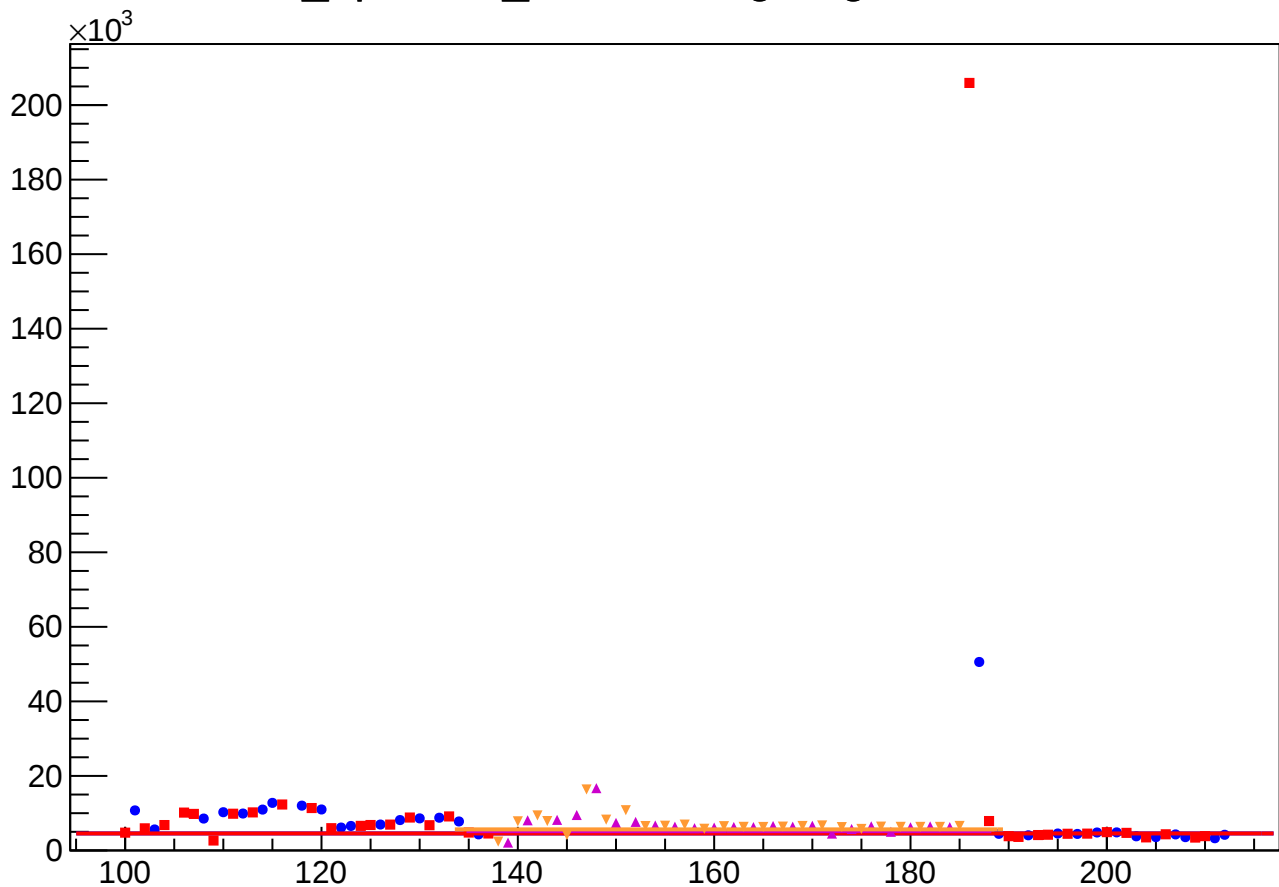
Right: 0.844 ± 0.869 $\chi^2/\text{NDF}: 95.8/62$

In: 0.982 ± 0.918 $\chi^2/\text{NDF}: 62.8/52$

Out: 0.714 ± 0.934 $\chi^2/\text{NDF}: 86.4/57$

All: 0.851 ± 0.655 $\chi^2/\text{NDF}: 149.3/110$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4570.399 $\pm$ 0.867 χ^2/NDF : 3459388.7/29

Left Out: 5655.639 $\pm$ 1.014 χ^2/NDF : 4124124.3/24

Right Out: 4560.235 $\pm$ 0.870 χ^2/NDF : 3954032.8/32

Left In: 5180.743 $\pm$ 0.980 χ^2/NDF : 5350053.6/22

Left: 5409.966 $\pm$ 0.705 χ^2/NDF : 9587556.1/47

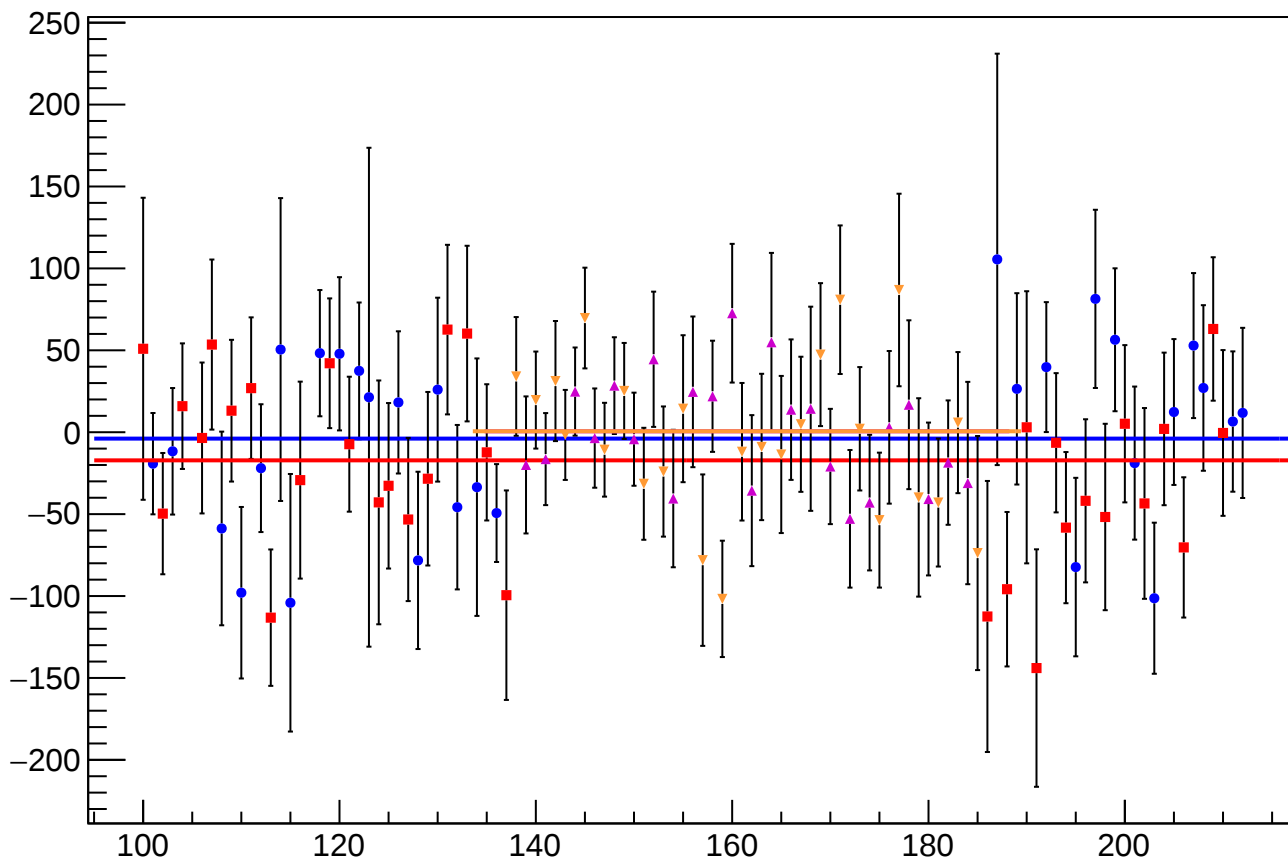
Right: 4565.336 $\pm$ 0.614 χ^2/NDF : 7413490.0/62

In: 4838.448 $\pm$ 0.649 χ^2/NDF : 9027037.5/52

Out: 5024.740 $\pm$ 0.661 χ^2/NDF : 8749751.6/57

All: 4929.998 $\pm$ 0.463 χ^2/NDF : 17817236.7/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -3.900 $\pm$ 8.651 χ^2/NDF : 31.8/29

Left Out: 0.580 $\pm$ 7.691 χ^2/NDF :31.0/24

Right Out: -17.175 $\pm$ 8.540 χ^2/NDF : 34.4/32

Left In: 0.565 $\pm$ 8.015 χ^2/NDF :14.3/22

Left: 0.572 $\pm$ 5.549 χ^2/NDF : 45.3/47

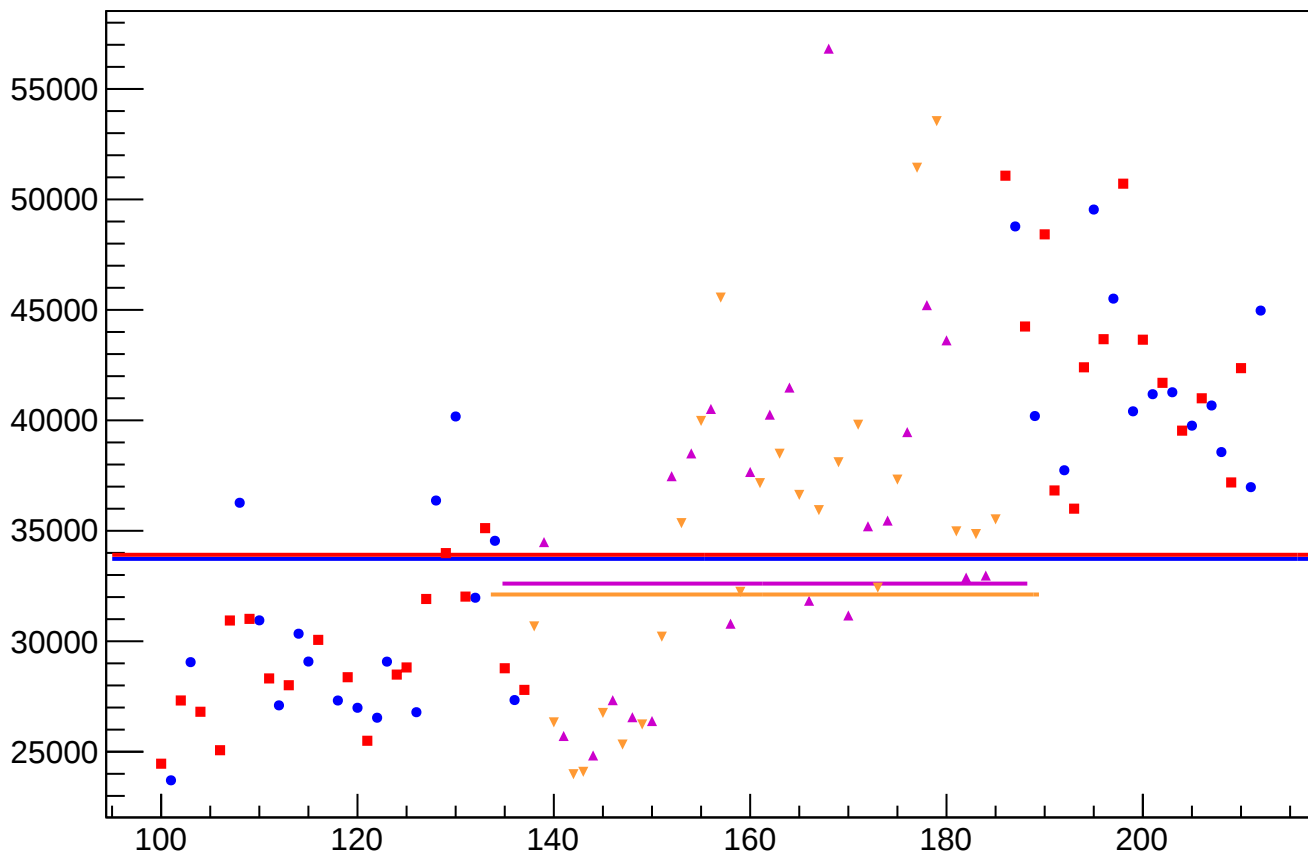
Right: -10.623 $\pm$ 6.077 χ^2/NDF : 67.4/62

In: -1.497 $\pm$ 5.879 χ^2/NDF :46.2/52

Out: -7.371 $\pm$ 5.715 χ^2/NDF :67.8/57

All: -4.518 $\pm$ 4.098 χ^2/NDF : 114.5/110

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33729.703+/-6.117

χ^2/NDF : 1347394.3/29

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right: 33823.492+/-4.297

χ^2/NDF : 2720758.6/62

Right Out: 33914.892+/-6.038

χ^2/NDF : 1372900.1/32

In: 33127.240+/-4.157

χ^2/NDF : 2763897.7/52

Out: 32922.255+/-4.041

χ^2/NDF : 2958580.4/57

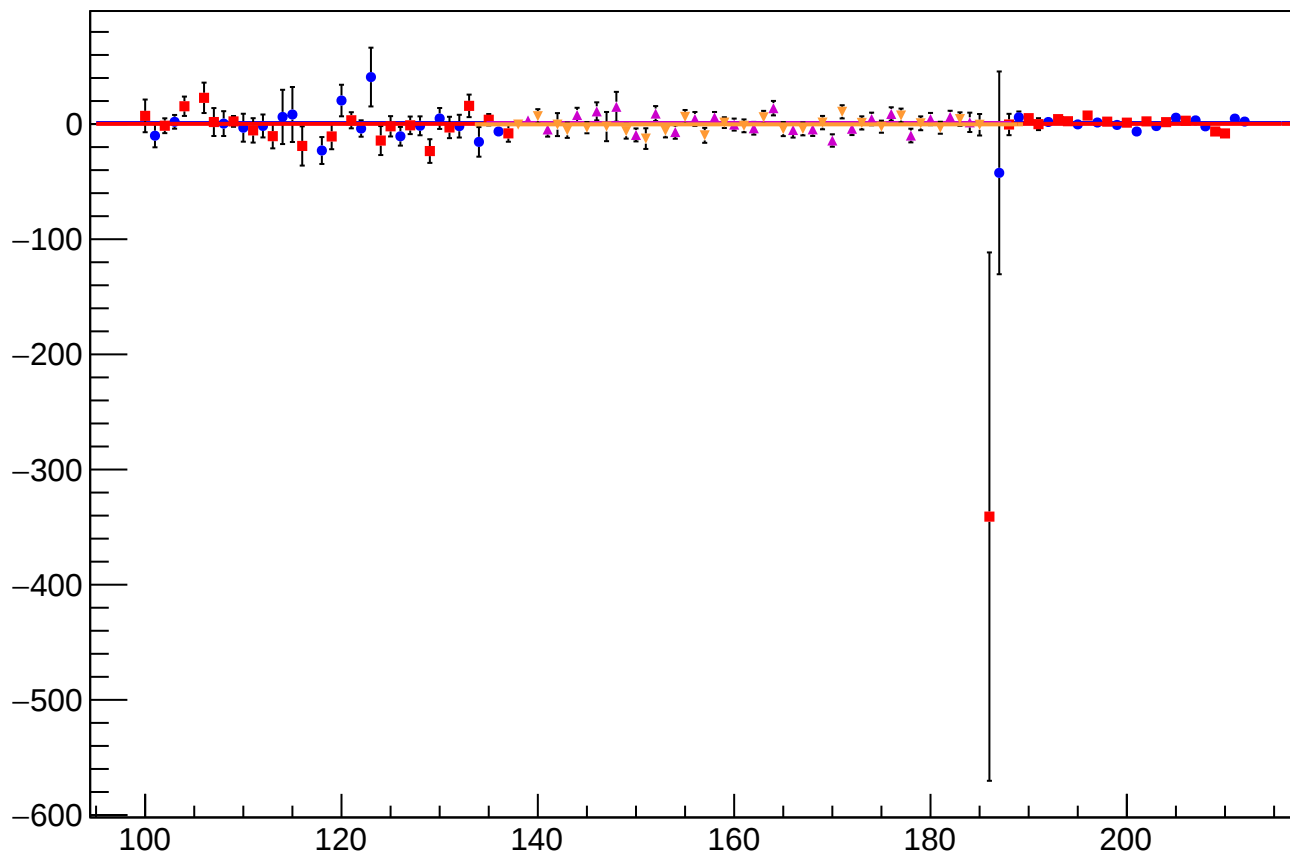
Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

All: 33021.841+/-2.898

χ^2/NDF : 5723728.2/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.878 ± 0.731 χ^2/NDF : 37.1/29

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: 0.171 ± 0.779 χ^2/NDF : 55.5/32

Left In: 0.925 ± 1.154 χ^2/NDF : 36.1/22

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

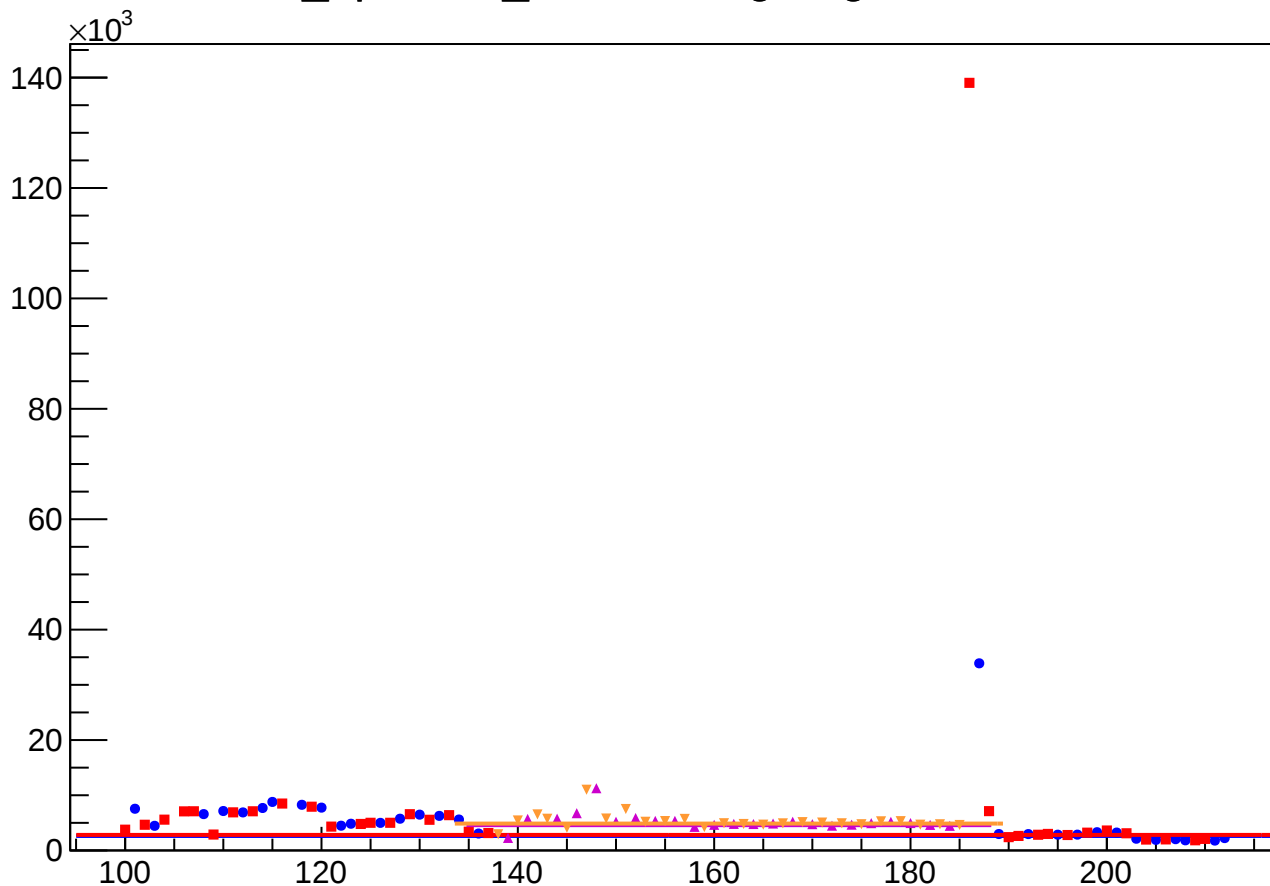
Right: 0.547 ± 0.533 χ^2/NDF : 93.0/62

In: 0.892 ± 0.618 χ^2/NDF : 73.2/52

Out: 0.040 ± 0.649 χ^2/NDF : 73.6/57

All: 0.487 ± 0.447 χ^2/NDF : 147.8/110

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2629.588+/-0.517 χ^2/NDF : 5405850.8/29

Left Out: 4866.528+/-0.829 χ^2/NDF : 1511486.2/24

Right Out: 2815.778+/-0.551 χ^2/NDF : 5706881.8/32

Left In: 4582.193+/-0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017+/-0.582 χ^2/NDF : 4049906.1/47

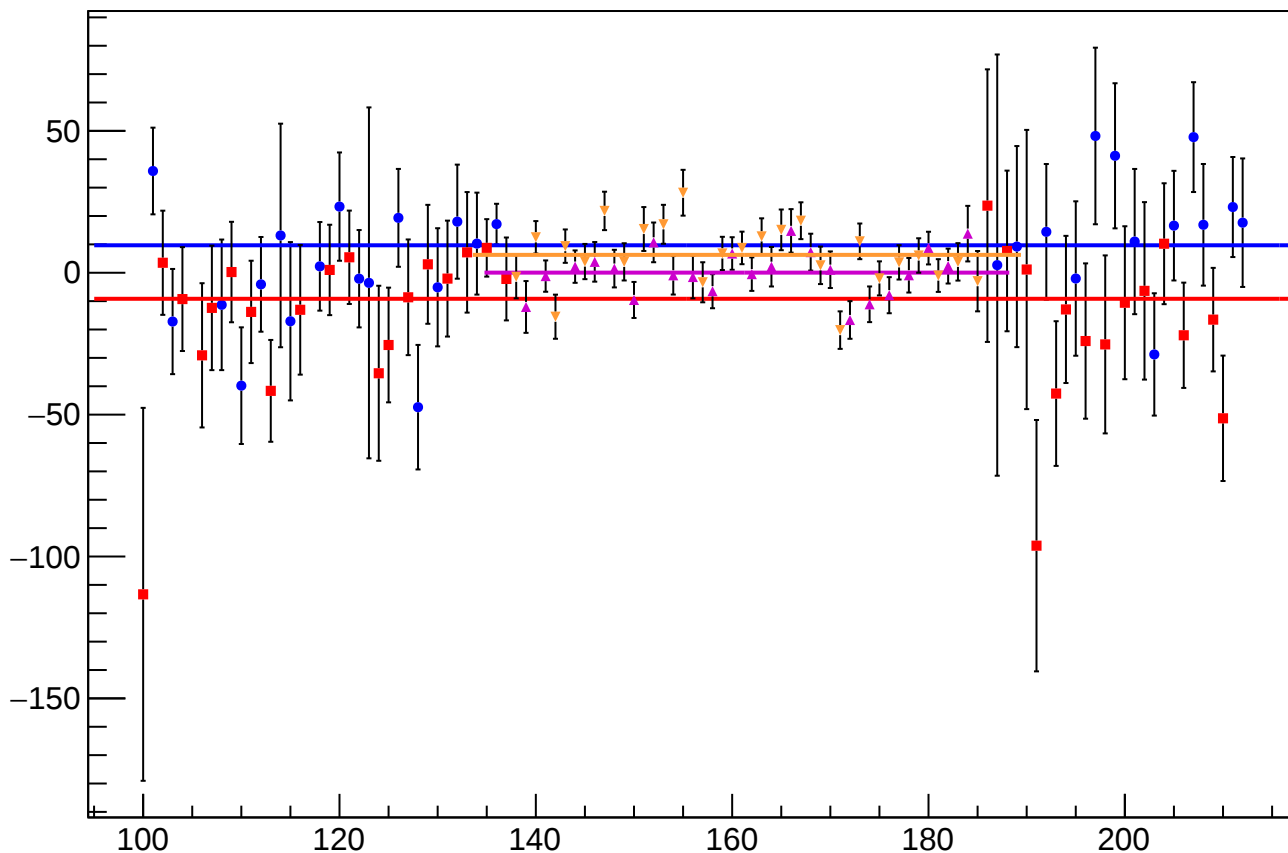
Right: 2716.734+/-0.377 χ^2/NDF : 11173437.4/62

In: 3189.098+/-0.437 χ^2/NDF : 11971864.4/52

Out: 3444.035+/-0.459 χ^2/NDF : 11459578.3/57

All: 3310.210+/-0.316 χ^2/NDF : 23593352.0/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 9.682 ± 3.464 χ^2/NDF : 34.7/29

Left Out: 6.302 ± 1.313 χ^2/NDF : 56.7/24

Right Out: -9.174 ± 3.615 χ^2/NDF : 26.4/32

Left In: 0.044 ± 1.358 χ^2/NDF : 30.0/22

Left: 3.279 ± 0.944 χ^2/NDF : 97.7/47

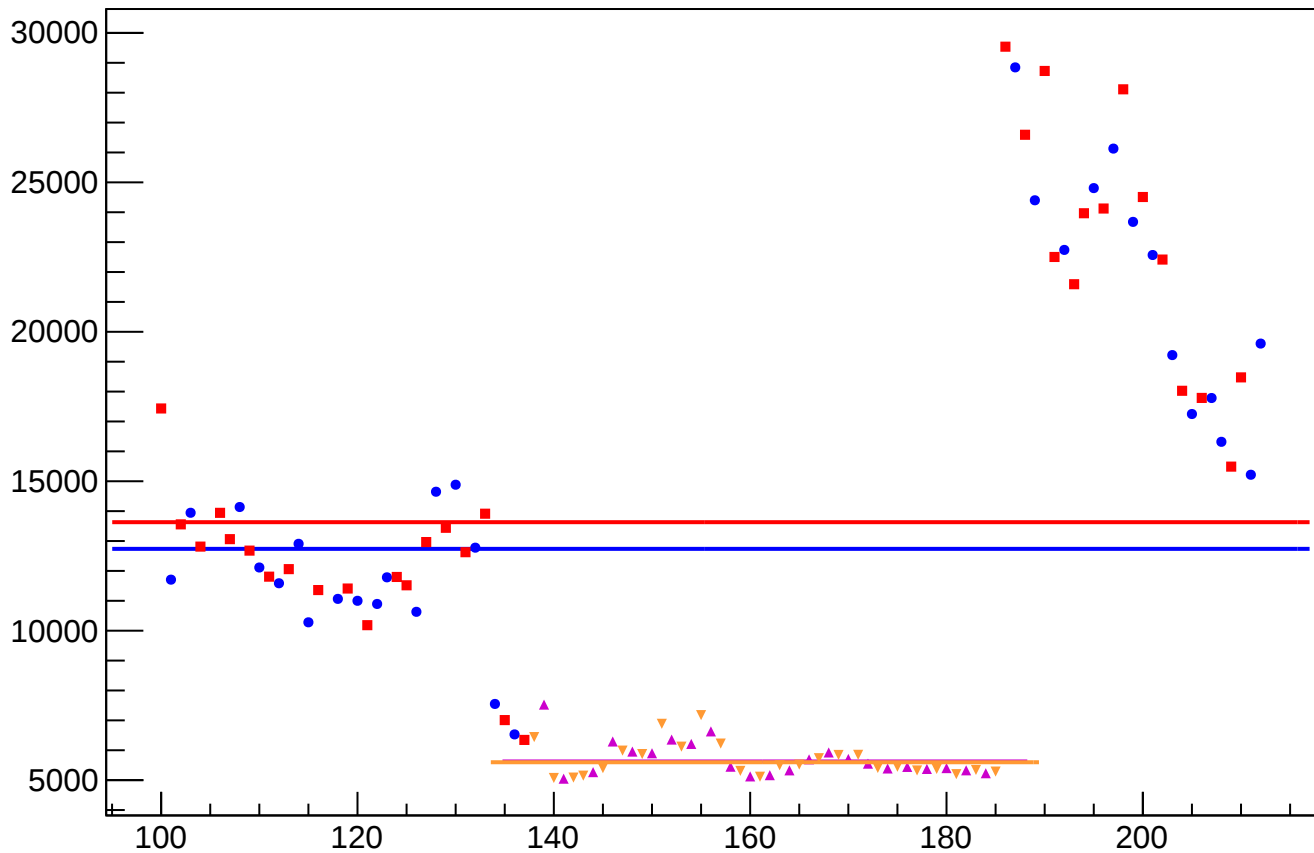
Right: 0.655 ± 2.501 χ^2/NDF : 75.3/62

In: 1.327 ± 1.264 χ^2/NDF : 71.4/52

Out: 4.500 ± 1.234 χ^2/NDF : 99.3/57

All: 2.952 ± 0.883 χ^2/NDF : 173.9/110

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12737.984 $\pm$ 2.450 χ^2/NDF : 4643423.4/29

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

Right Out: 13630.412 $\pm$ 2.556 χ^2/NDF : 4515938.9/32

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

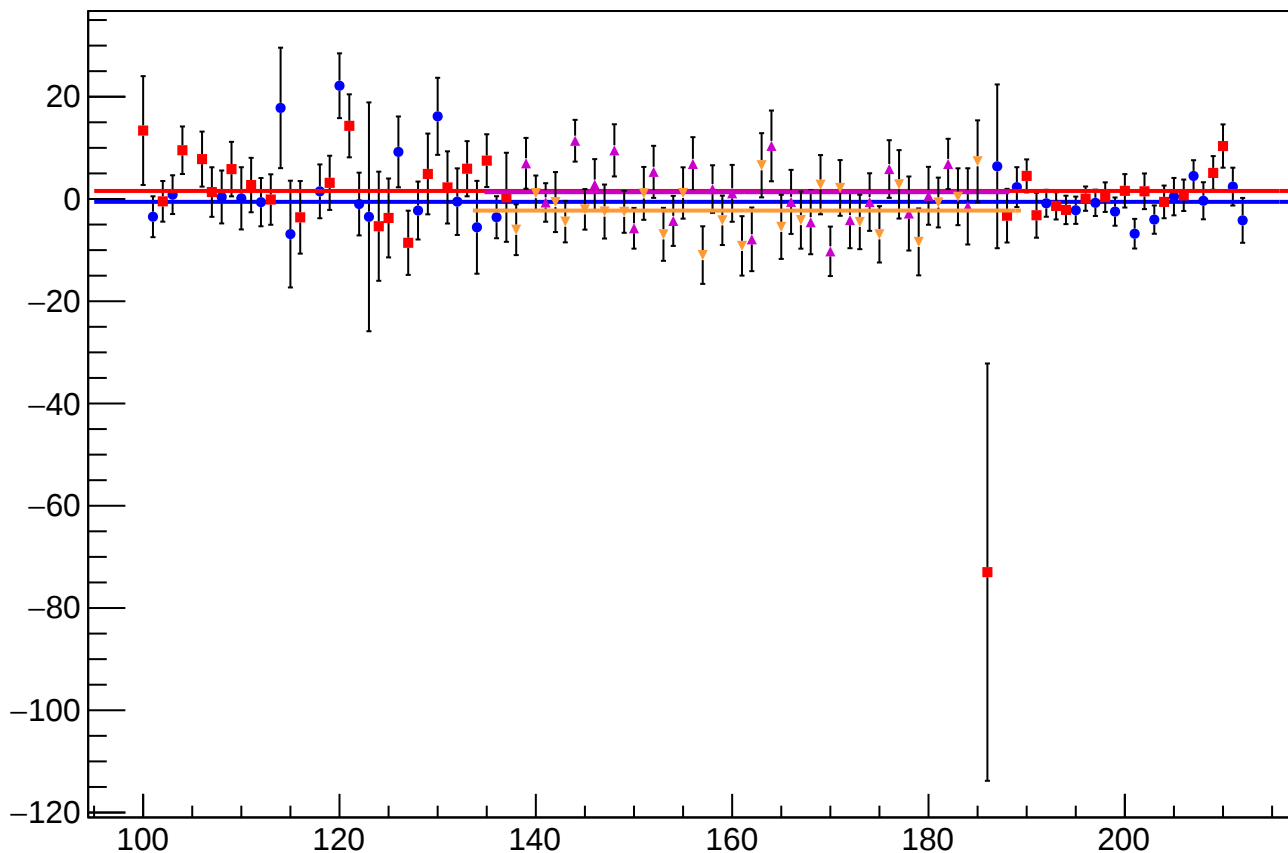
Right: 13165.191 $\pm$ 1.769 χ^2/NDF : 9222893.5/62

In: 6572.192 $\pm$ 0.894 χ^2/NDF : 12224133.0/52

Out: 6534.164 $\pm$ 0.872 χ^2/NDF : 13520605.3/57

All: 6552.716 $\pm$ 0.624 χ^2/NDF : 25745665.2/109

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.560 $\pm$ 0.750 χ^2/NDF : 36.3/29

Left Out: -2.262 $\pm$ 1.030 χ^2/NDF :15.5/24

Right Out: 1.573 $\pm$ 0.737 χ^2/NDF : 32.9/32

Left In: 1.328 $\pm$ 1.082 χ^2/NDF :30.6/22

Left: -0.555 $\pm$ 0.746 χ^2/NDF : 51.9/47

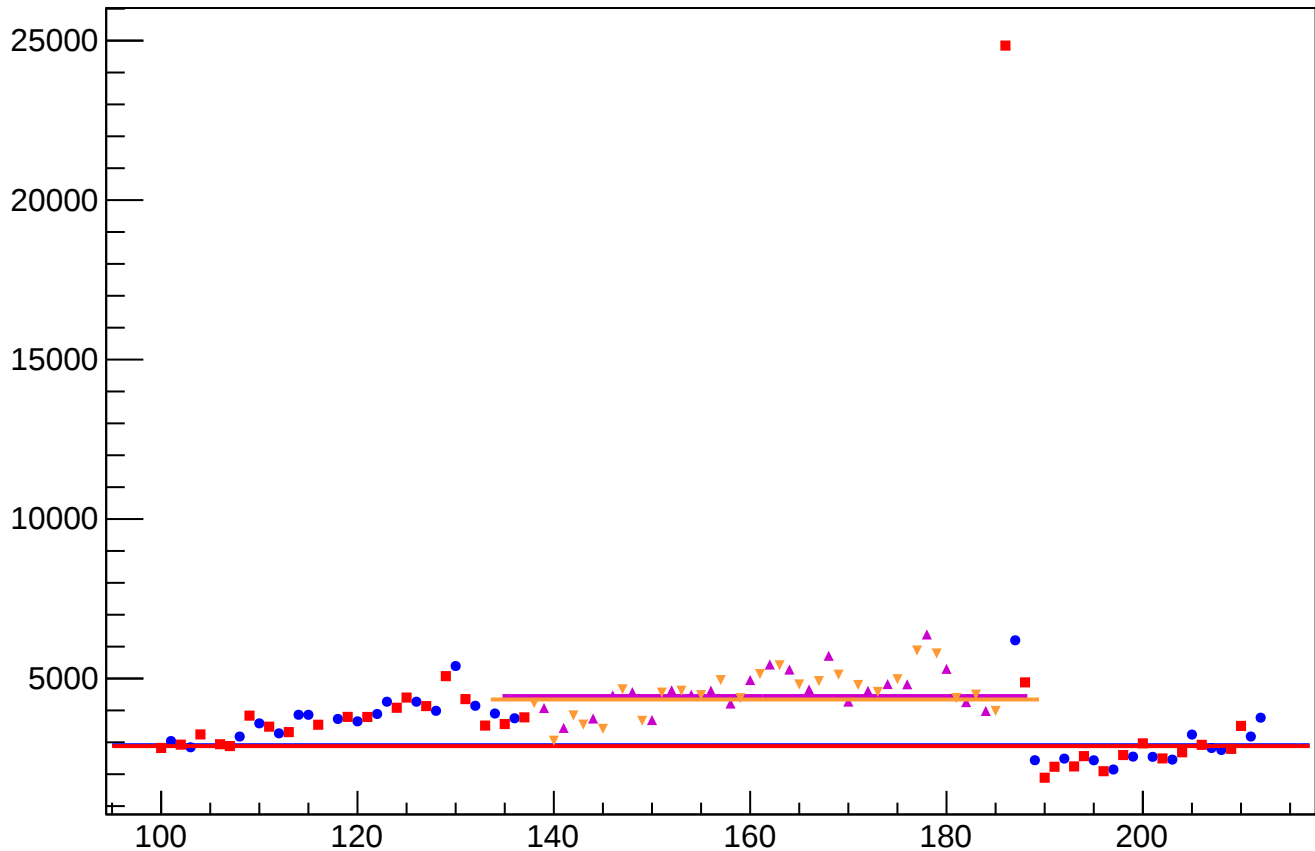
Right: 0.525 $\pm$ 0.526 χ^2/NDF : 73.3/62

In: 0.053 $\pm$ 0.616 χ^2/NDF :69.0/52

Out: 0.275 $\pm$ 0.599 χ^2/NDF :57.5/57

All: 0.167 $\pm$ 0.430 χ^2/NDF : 126.6/110

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2908.437+/-0.530 χ^2/NDF : 1388328.3/29

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

Right Out: 2880.769+/-0.521 χ^2/NDF : 2311305.6/32

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

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

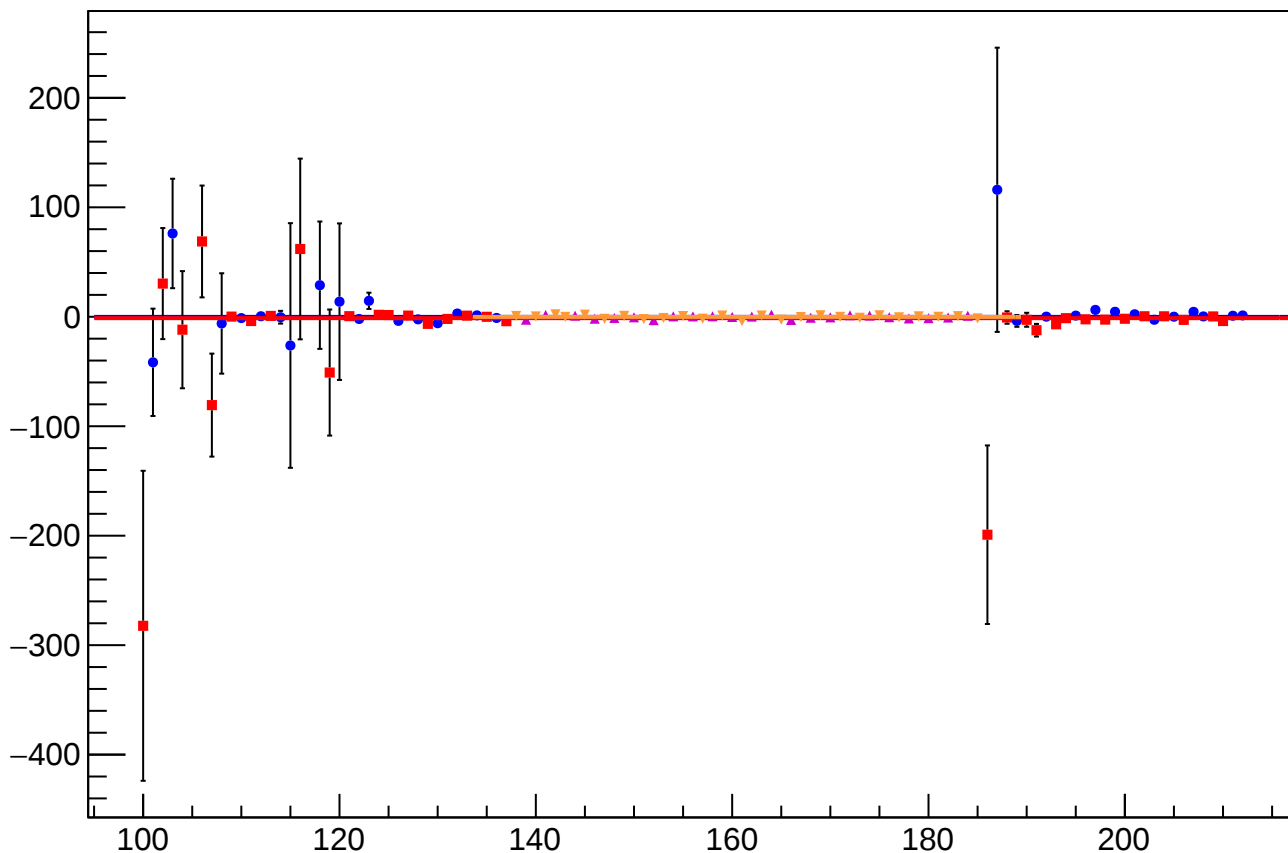
Right: 2894.364+/-0.372 χ^2/NDF : 3701018.8/62

In: 3408.636+/-0.436 χ^2/NDF : 4823996.4/52

Out: 3375.703+/-0.424 χ^2/NDF : 5968361.4/57

All: 3391.711+/-0.304 χ^2/NDF : 10795292.4/111

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.108 ± 0.550 χ^2/NDF : 32.2/29

Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24

Right Out: -1.263 ± 0.554 χ^2/NDF : 37.2/32

Left In: -0.259 ± 0.257 χ^2/NDF : 27.2/22

Left: -0.173 ± 0.179 χ^2/NDF : 61.9/47

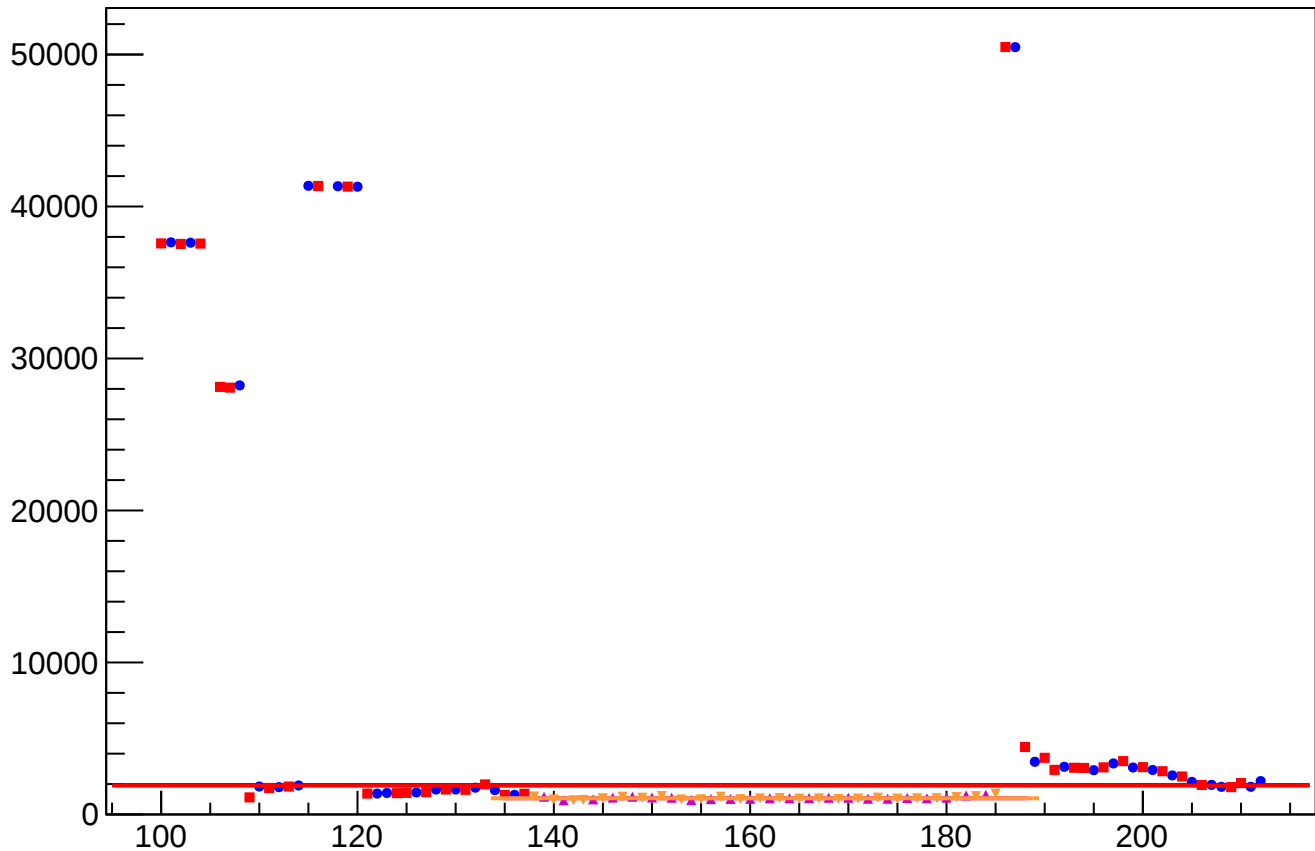
Right: -0.681 ± 0.390 χ^2/NDF : 71.5/62

In: -0.232 ± 0.233 χ^2/NDF : 59.4/52

Out: -0.289 ± 0.227 χ^2/NDF : 75.4/57

All: -0.261 ± 0.163 χ^2/NDF : 134.8/110

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1930.464+/-0.389 χ^2/NDF : 6951818.3/29

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

Right Out: 1903.036+/-0.392 χ^2/NDF : 8353769.7/32

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

Left: 1065.454+/-0.126 χ^2/NDF : 350781.3/47

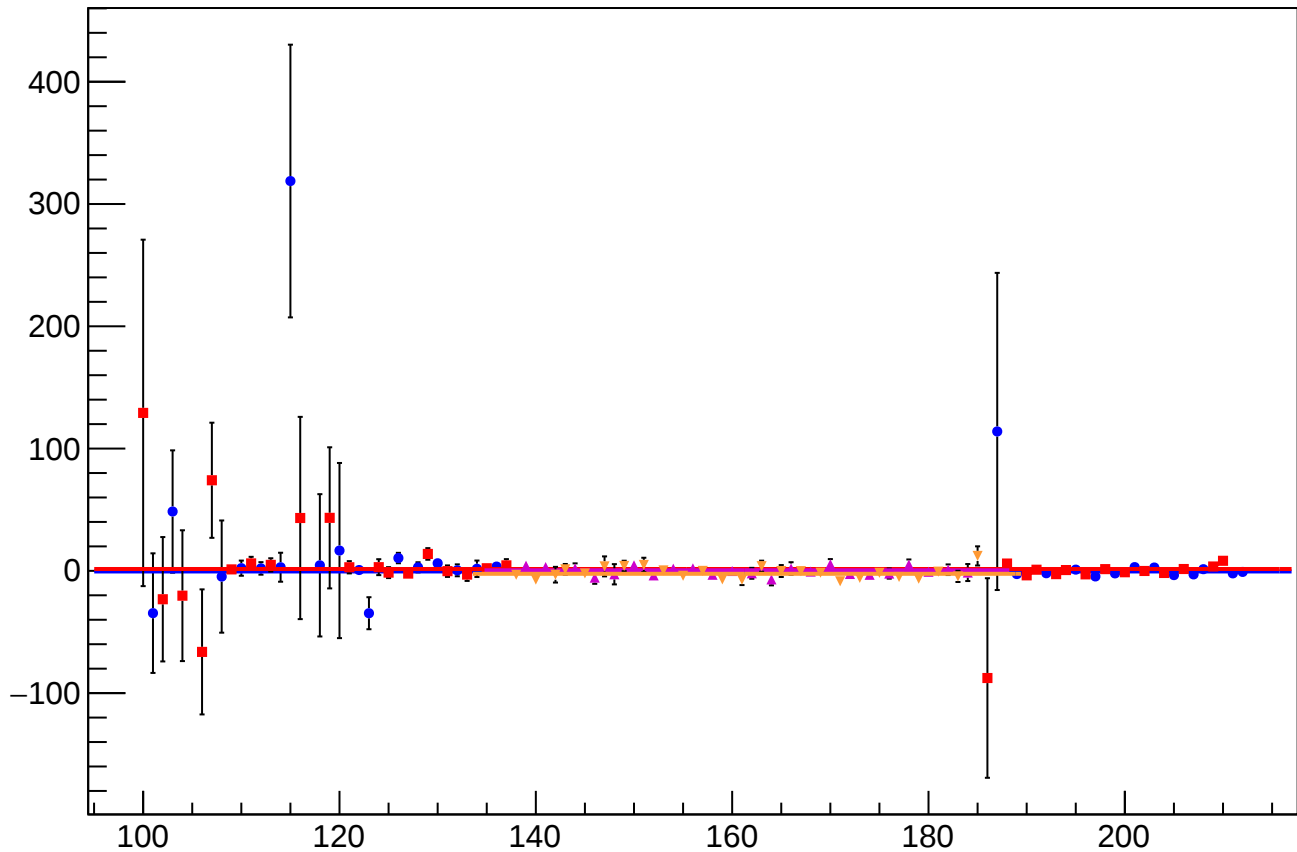
Right: 1916.853+/-0.276 χ^2/NDF : 15308060.5/62

In: 1221.322+/-0.165 χ^2/NDF : 11175076.4/52

Out: 1205.775+/-0.161 χ^2/NDF : 12353935.2/57

All: 1213.358+/-0.115 χ^2/NDF : 23533582.4/111

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -0.508 ± 0.489 $\chi^2/\text{NDF}: 51.0/29$

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

Right Out: 1.516 ± 0.523 $\chi^2/\text{NDF}: 53.4/32$

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

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

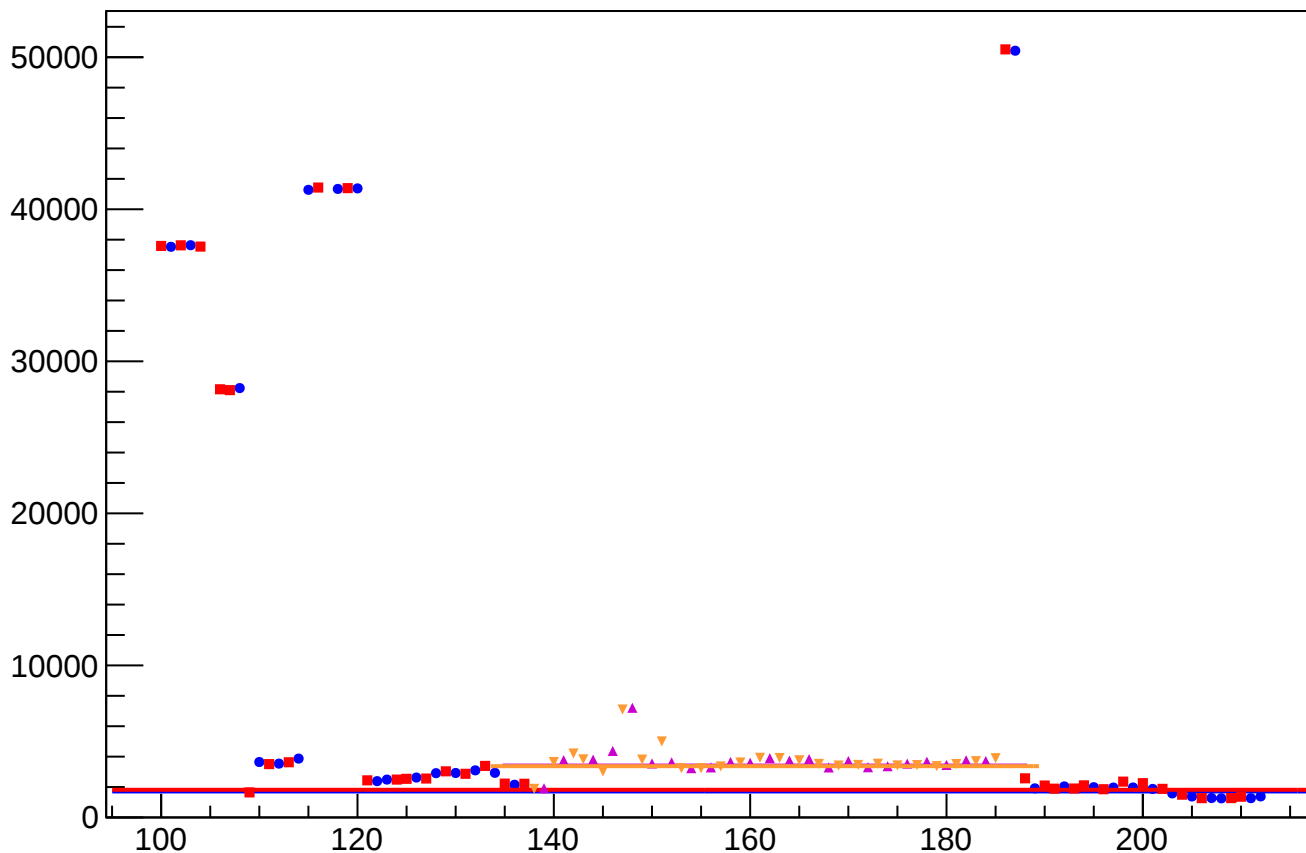
Right: 0.436 ± 0.357 $\chi^2/\text{NDF}: 112.4/62$

In: -0.262 ± 0.423 $\chi^2/\text{NDF}: 67.5/52$

Out: 0.358 ± 0.440 $\chi^2/\text{NDF}: 91.3/57$

All: 0.036 ± 0.305 $\chi^2/\text{NDF}: 159.8/110$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1710.063+/-0.346 χ^2/NDF : 7036265.0/29

Left Out: 3372.958+/-0.573 χ^2/NDF :1656864.7/24

Right Out: 1819.504+/-0.370 χ^2/NDF : 7453175.7/32

Left In: 3411.924+/-0.596 χ^2/NDF :1434523.7/22

Left: 3391.680+/-0.413 χ^2/NDF : 3093609.1/47

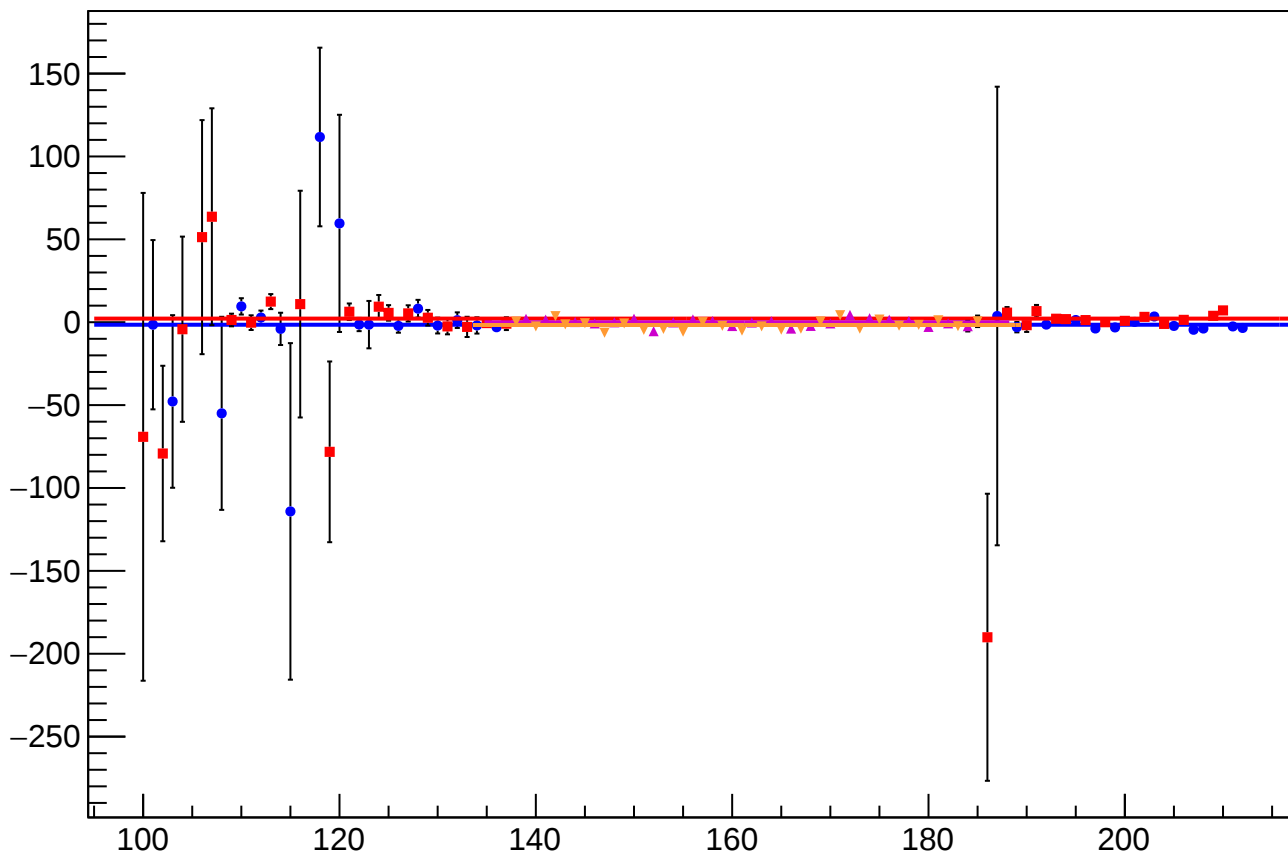
Right: 1761.089+/-0.253 χ^2/NDF : 14536157.1/62

In: 2138.582+/-0.299 χ^2/NDF :14571706.2/52

Out: 2276.349+/-0.311 χ^2/NDF :14295984.7/57

All: 2204.812+/-0.216 χ^2/NDF : 28969709.8/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.519 $\pm$ 0.596 χ^2/NDF : 30.4/29

Left Out: -1.672 $\pm$ 0.388 χ^2/NDF : 45.7/24

Right Out: 2.181 $\pm$ 0.611 χ^2/NDF : 33.4/32

Left In: -0.072 $\pm$ 0.401 χ^2/NDF : 28.2/22

Left: -0.898 $\pm$ 0.279 χ^2/NDF : 82.1/47

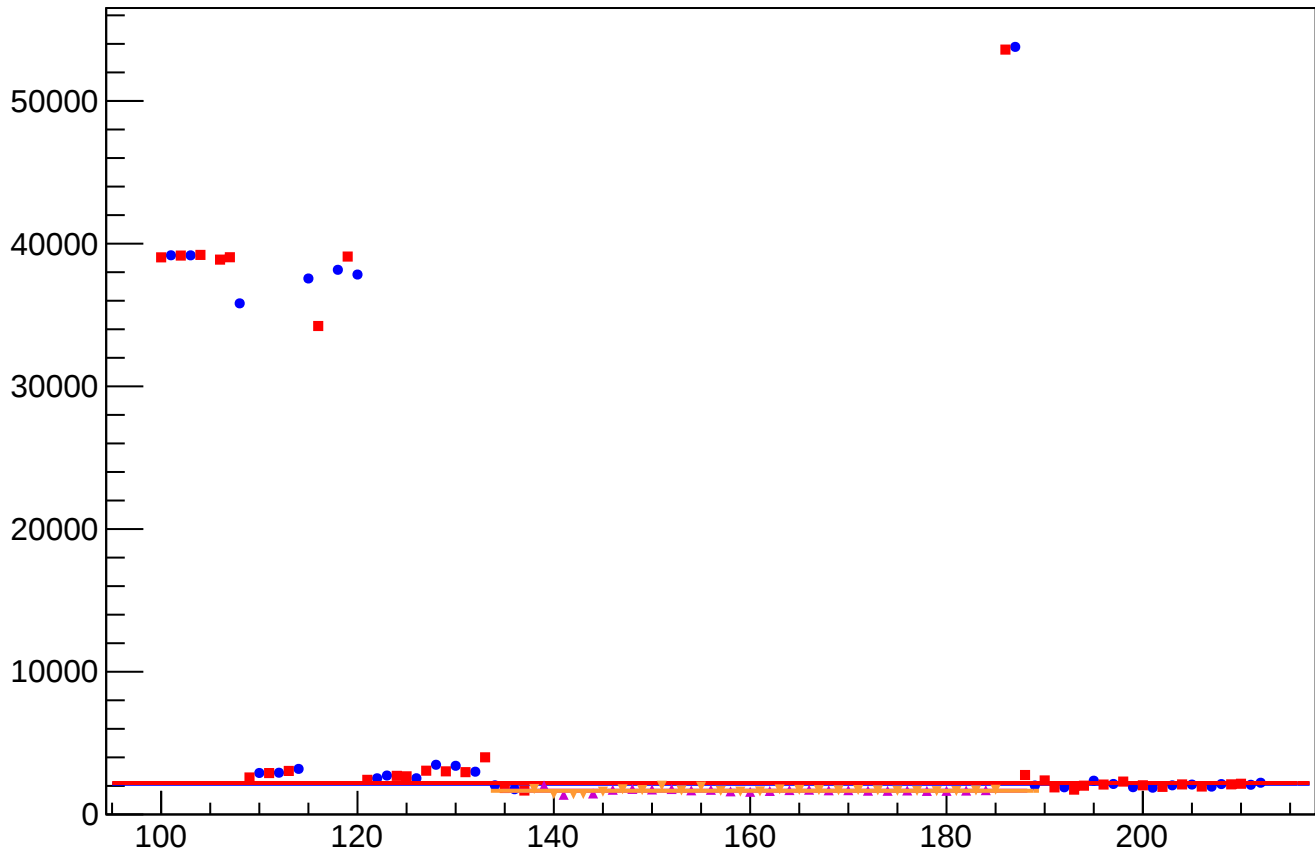
Right: 0.285 $\pm$ 0.426 χ^2/NDF : 82.6/62

In: -0.523 $\pm$ 0.333 χ^2/NDF : 62.6/52

Out: -0.564 $\pm$ 0.328 χ^2/NDF : 107.4/57

All: -0.544 $\pm$ 0.233 χ^2/NDF : 170.1/110

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2148.317 $\pm$ 0.421 χ^2 /NDF: 5461886.7/29

Left Out: 1657.770 $\pm$ 0.274 χ^2 /NDF: 223465.3/24

Right Out: 2204.331 $\pm$ 0.432 χ^2 /NDF: 6066833.9/32

Left In: 1663.620 $\pm$ 0.284 χ^2 /NDF: 178858.2/22

Left: 1660.599 $\pm$ 0.197 χ^2 /NDF: 402543.2/47

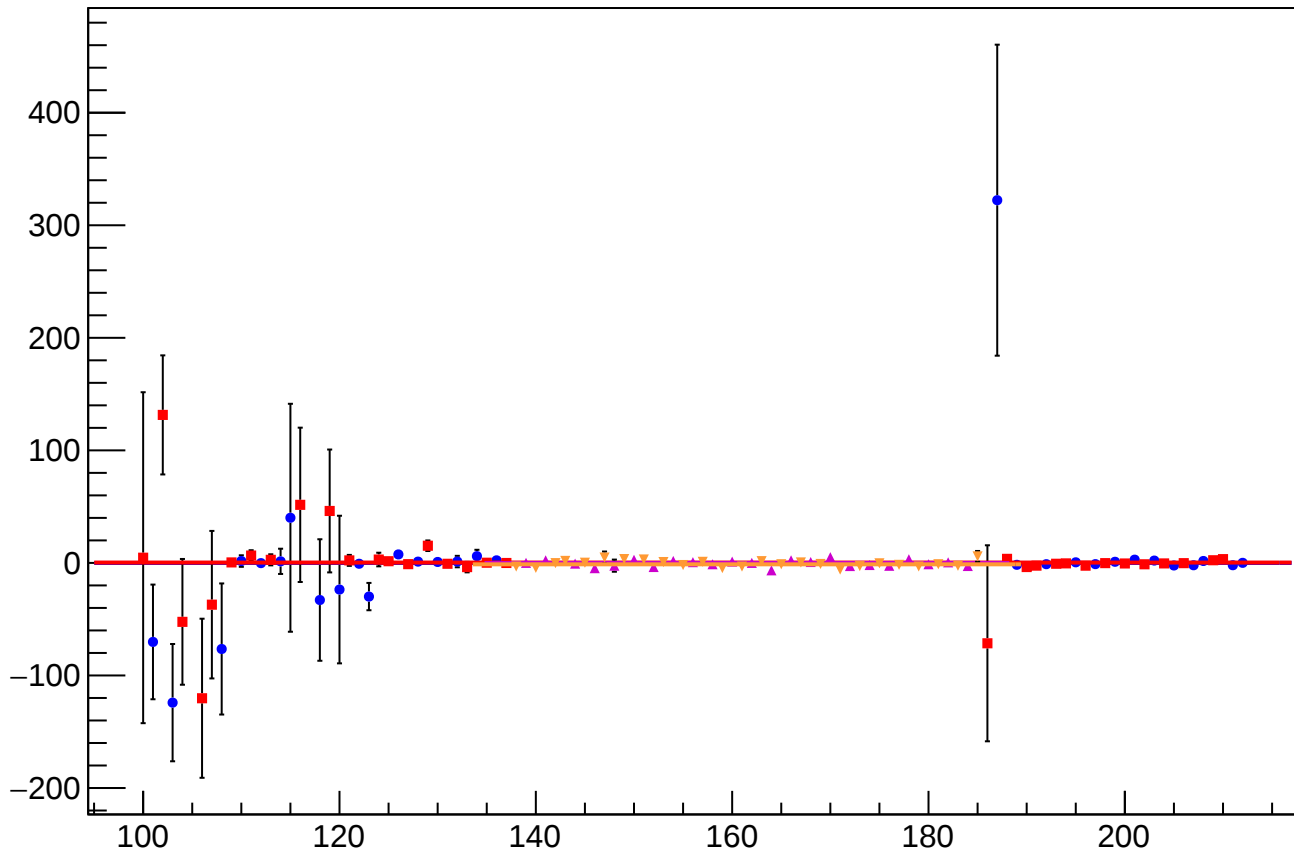
Right: 2175.625 $\pm$ 0.302 χ^2 /NDF: 11537340.0/62

In: 1814.773 $\pm$ 0.235 χ^2 /NDF: 6551749.3/52

Out: 1814.942 $\pm$ 0.232 χ^2 /NDF: 7431110.8/57

All: 1814.859 $\pm$ 0.165 χ^2 /NDF: 13982860.4/111

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.045 ± 0.427 $\chi^2/\text{NDF}: 43.3/29$

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

Right Out: 0.306 ± 0.448 $\chi^2/\text{NDF}: 40.7/32$

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

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

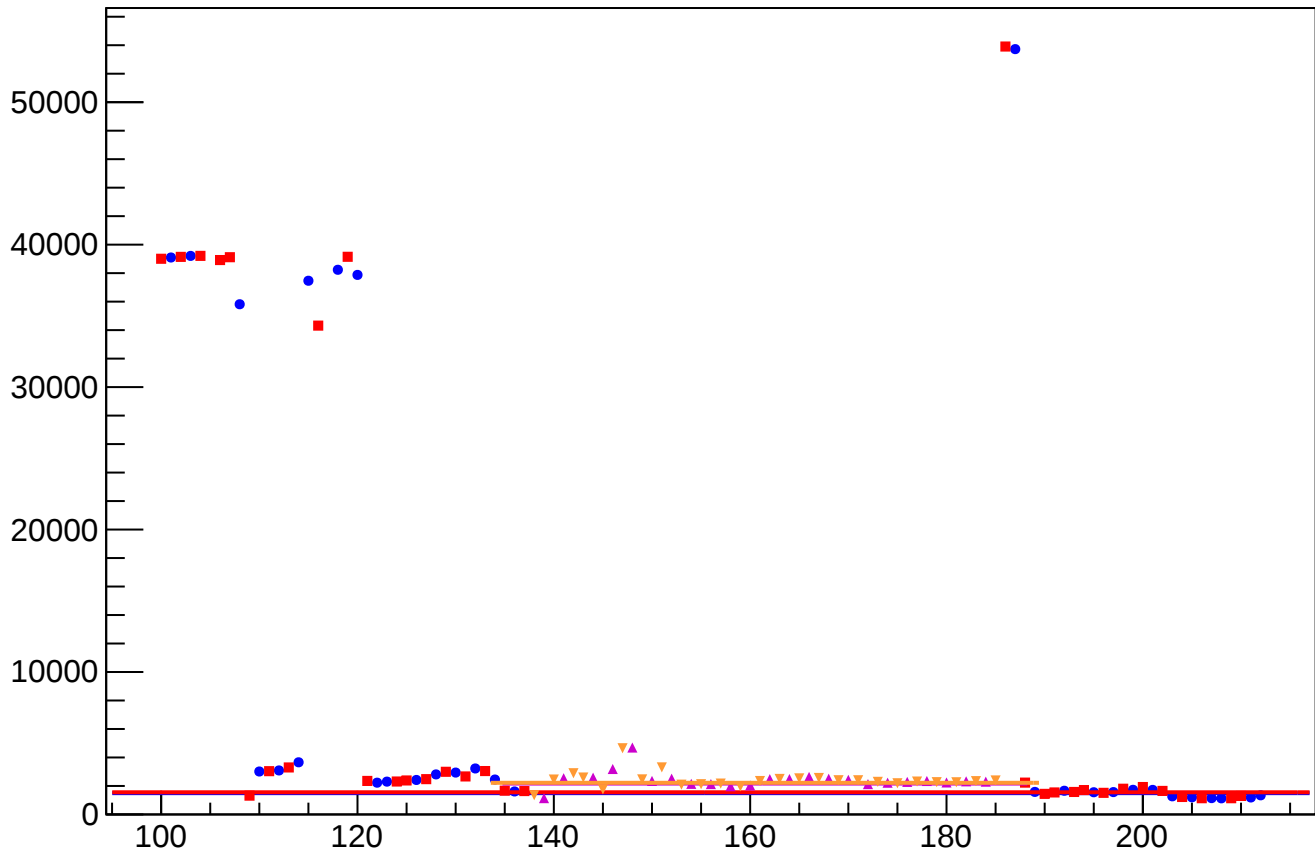
Right: 0.122 ± 0.309 $\chi^2/\text{NDF}: 84.4/62$

In: -0.065 ± 0.335 $\chi^2/\text{NDF}: 62.6/52$

Out: -0.335 ± 0.343 $\chi^2/\text{NDF}: 67.4/57$

All: -0.197 ± 0.240 $\chi^2/\text{NDF}: 130.4/110$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1495.935+/-0.302 χ^2/NDF : 7000216.9/29

Left Out: 2222.081+/-0.378 χ^2/NDF : 1422440.9/24

Right Out: 1556.924+/-0.317 χ^2/NDF : 7477013.5/32

Left In: 2169.443+/-0.383 χ^2/NDF : 1974869.8/22

Left: 2196.064+/-0.269 χ^2/NDF : 3406878.6/47

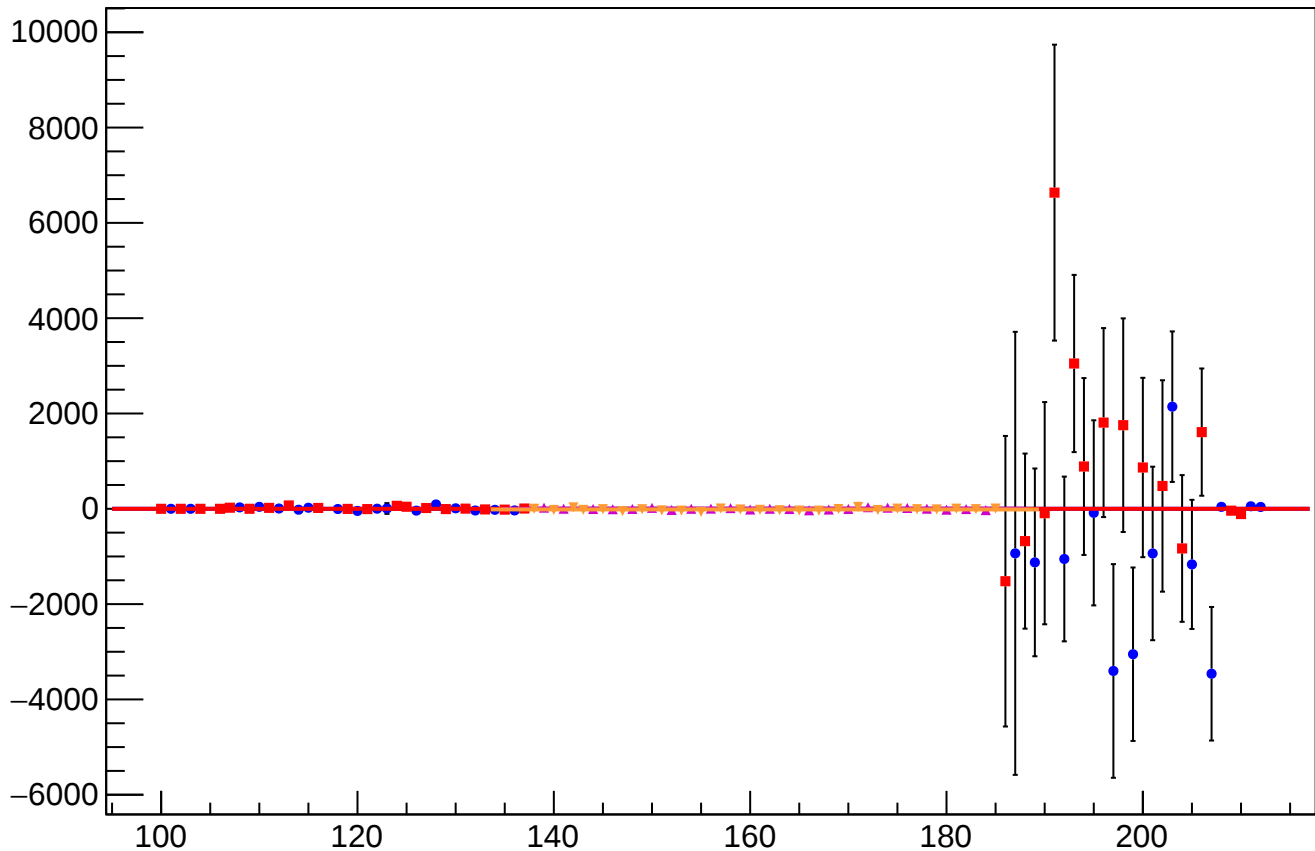
Right: 1525.014+/-0.219 χ^2/NDF : 14496643.7/62

In: 1754.664+/-0.237 χ^2/NDF : 10882496.8/52

Out: 1830.901+/-0.243 χ^2/NDF : 10717297.3/57

All: 1791.891+/-0.170 χ^2/NDF : 21650238.5/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 34.5/29

Left Out: -13.484 $\pm$ 2.800 χ^2/NDF : 58.7/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 33.2/32

Left In: 0.459 $\pm$ 2.917 χ^2/NDF : 29.0/22

Left: -6.796 $\pm$ 2.020 χ^2/NDF : 99.5/47

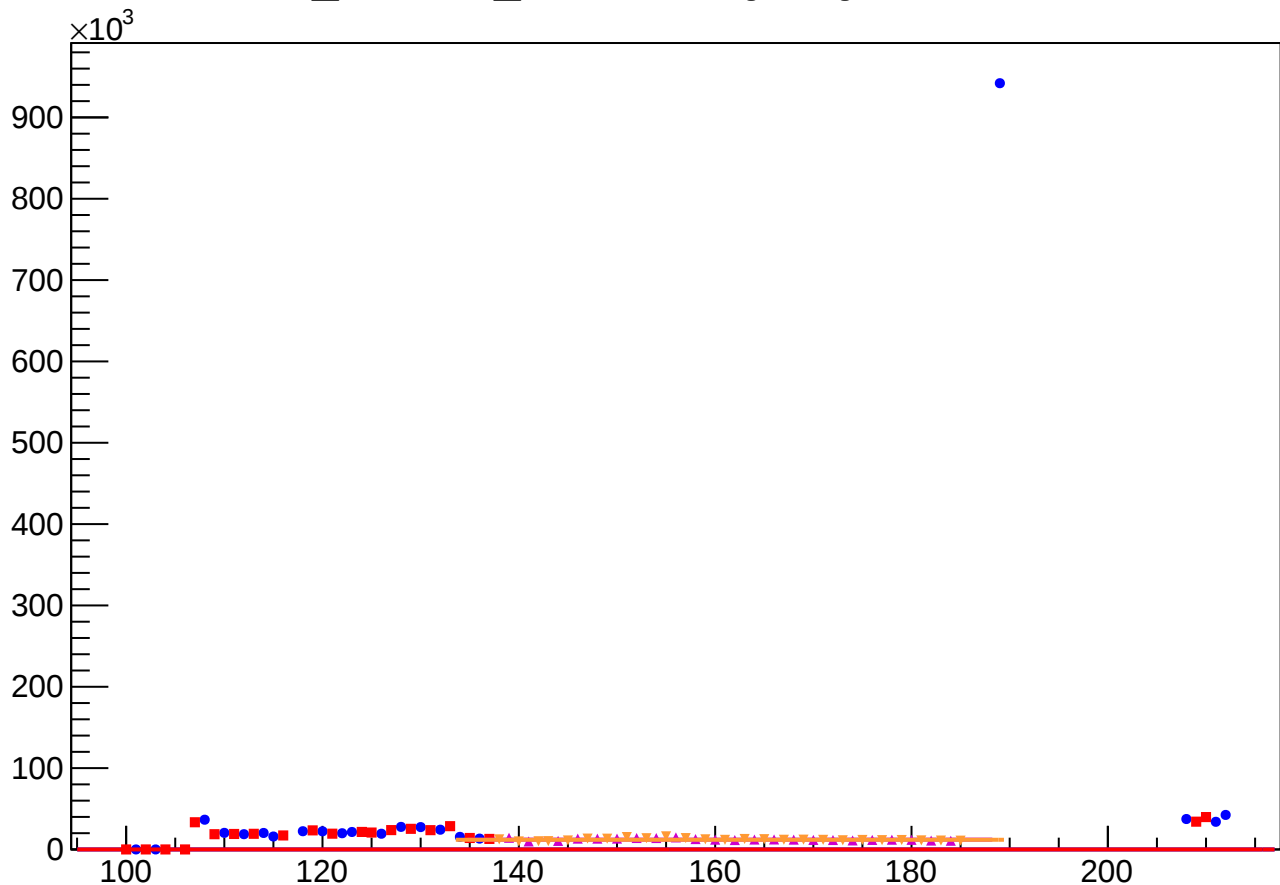
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 68.2/62

In: 0.013 $\pm$ 0.017 χ^2/NDF : 63.5/52

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 115.0/57

All: 0.004 $\pm$ 0.012 χ^2/NDF : 179.1/110

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.658+/-0.012 χ^2 /NDF: 15271174.1/20

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

Right Out: 18.321+/-0.011 χ^2 /NDF: 13902290.1/20

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

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

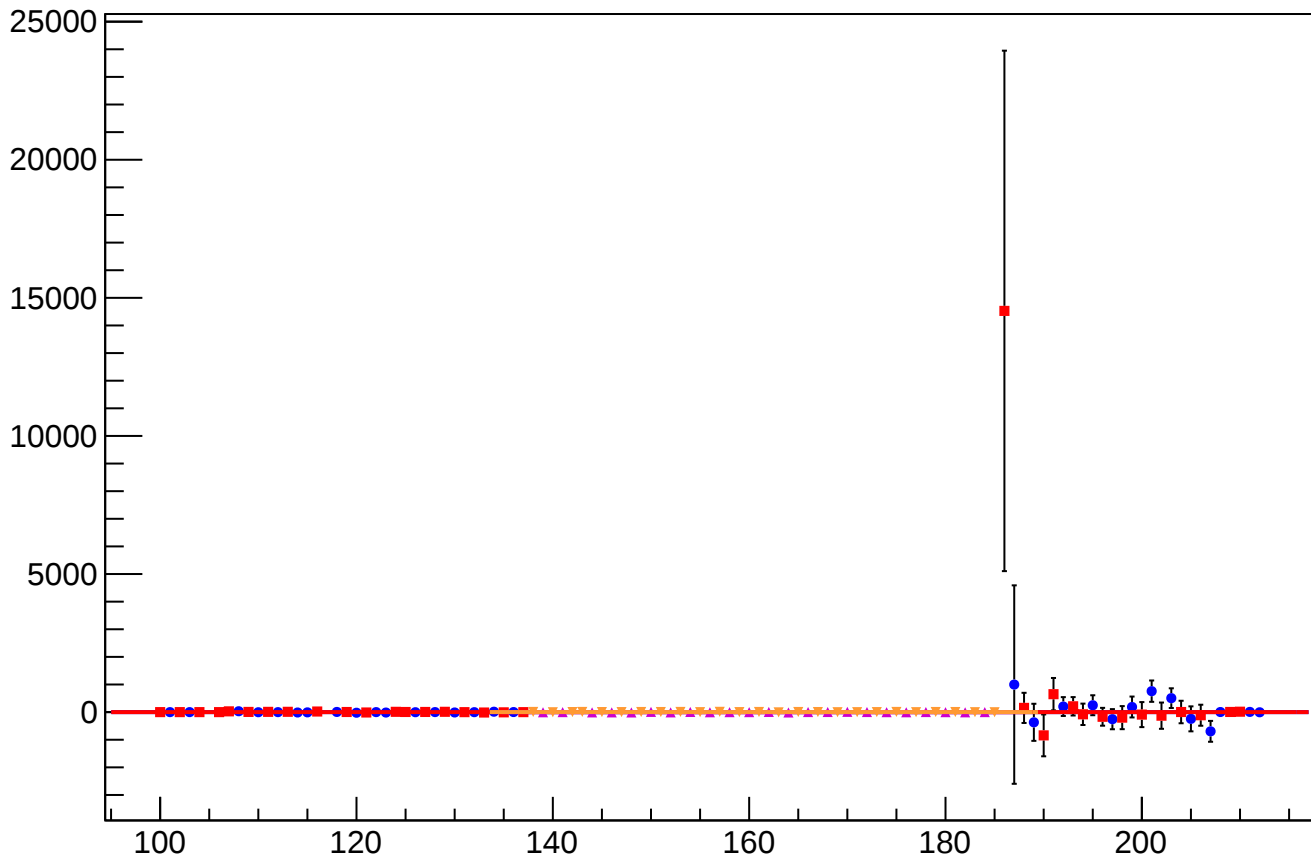
Right: 18.477+/-0.008 χ^2 /NDF: 29173870.1/41

In: 19.083+/-0.012 χ^2 /NDF: 49753398.8/43

Out: 18.713+/-0.011 χ^2 /NDF: 50444075.4/45

All: 18.884+/-0.008 χ^2 /NDF: 100197965.5/89

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 26.4/29

Left Out: 1.649 ± 1.022 χ^2/NDF : 18.4/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 29.3/32

Left In: -0.939 ± 1.049 χ^2/NDF : 35.6/22

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

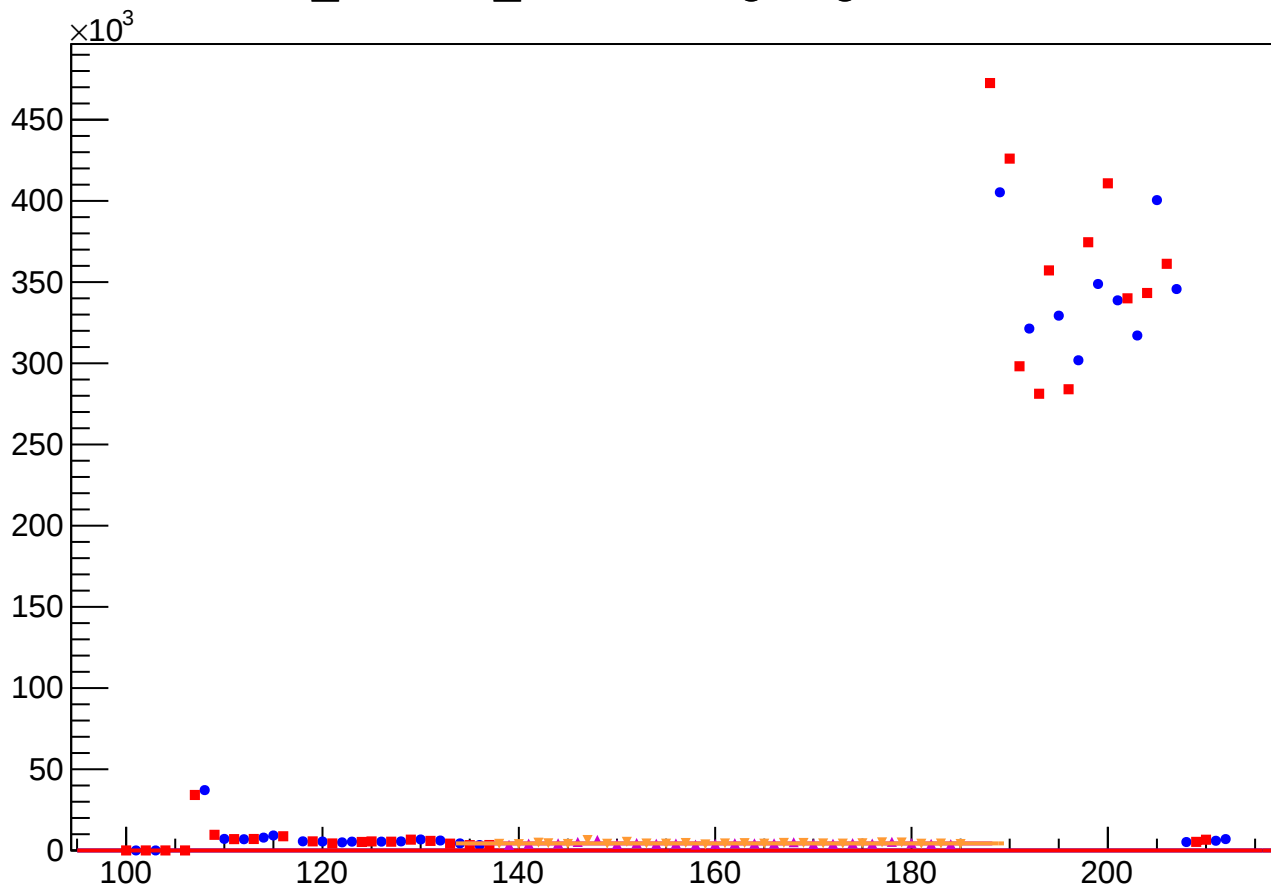
Right: -0.007 ± 0.006 χ^2/NDF : 57.1/62

In: 0.001 ± 0.009 χ^2/NDF : 62.8/52

Out: -0.014 ± 0.009 χ^2/NDF : 50.3/57

All: -0.007 ± 0.006 χ^2/NDF : 114.5/110

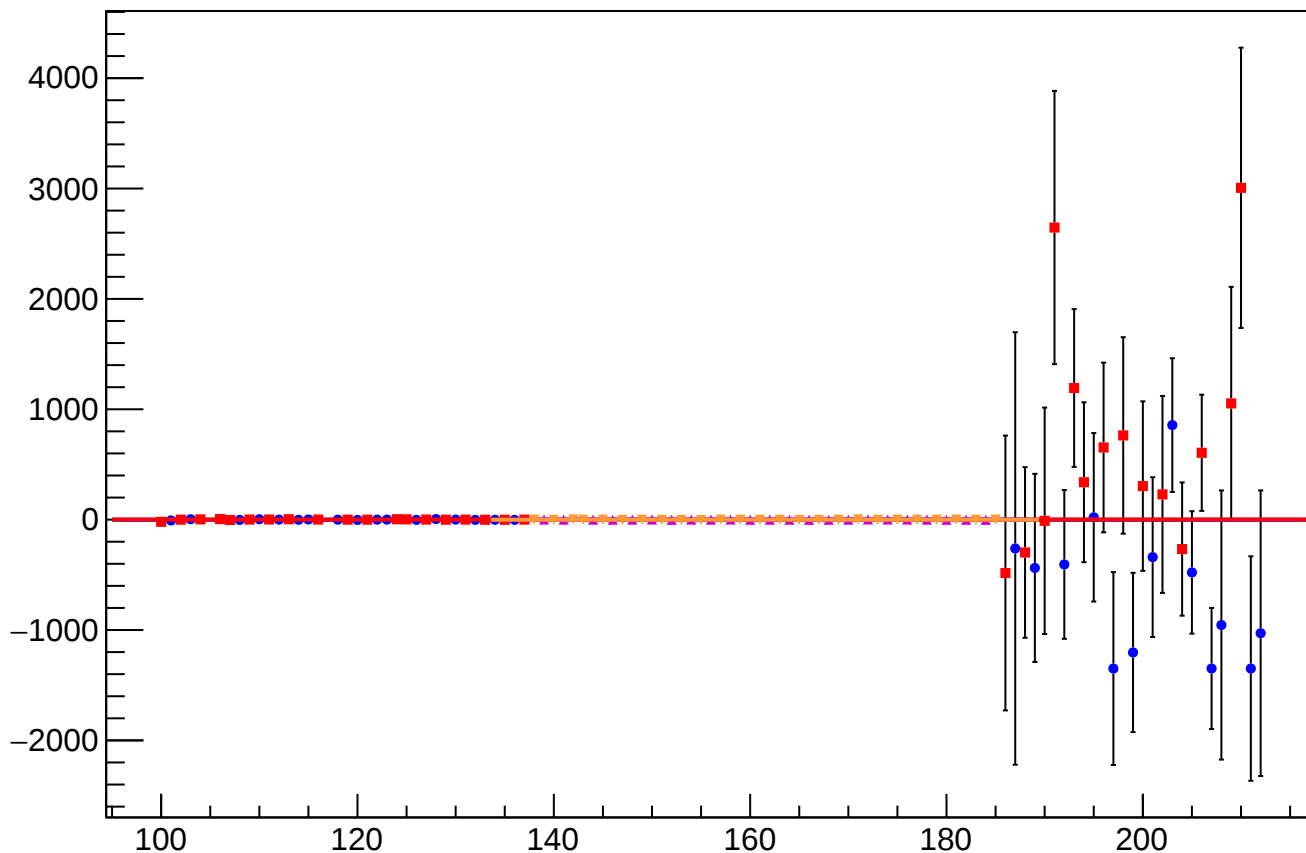
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.969 $\pm$ 0.007 χ^2 /NDF: 28739530.2/28
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.874 $\pm$ 0.006 χ^2 /NDF: 28712157.3/31
 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: 9.918 $\pm$ 0.004 χ^2 /NDF: 57451802.1/60
 In: 10.301 $\pm$ 0.007 χ^2 /NDF:63070801.3/51
 Out: 10.184 $\pm$ 0.006 χ^2 /NDF:65141008.4/56
 All: 10.239 $\pm$ 0.004 χ^2 /NDF: 128211980.9/10

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.716 ± 0.483 $\chi^2/\text{NDF}: 40.5/29$

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

Right Out: 0.641 ± 0.501 $\chi^2/\text{NDF}: 30.7/32$

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

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

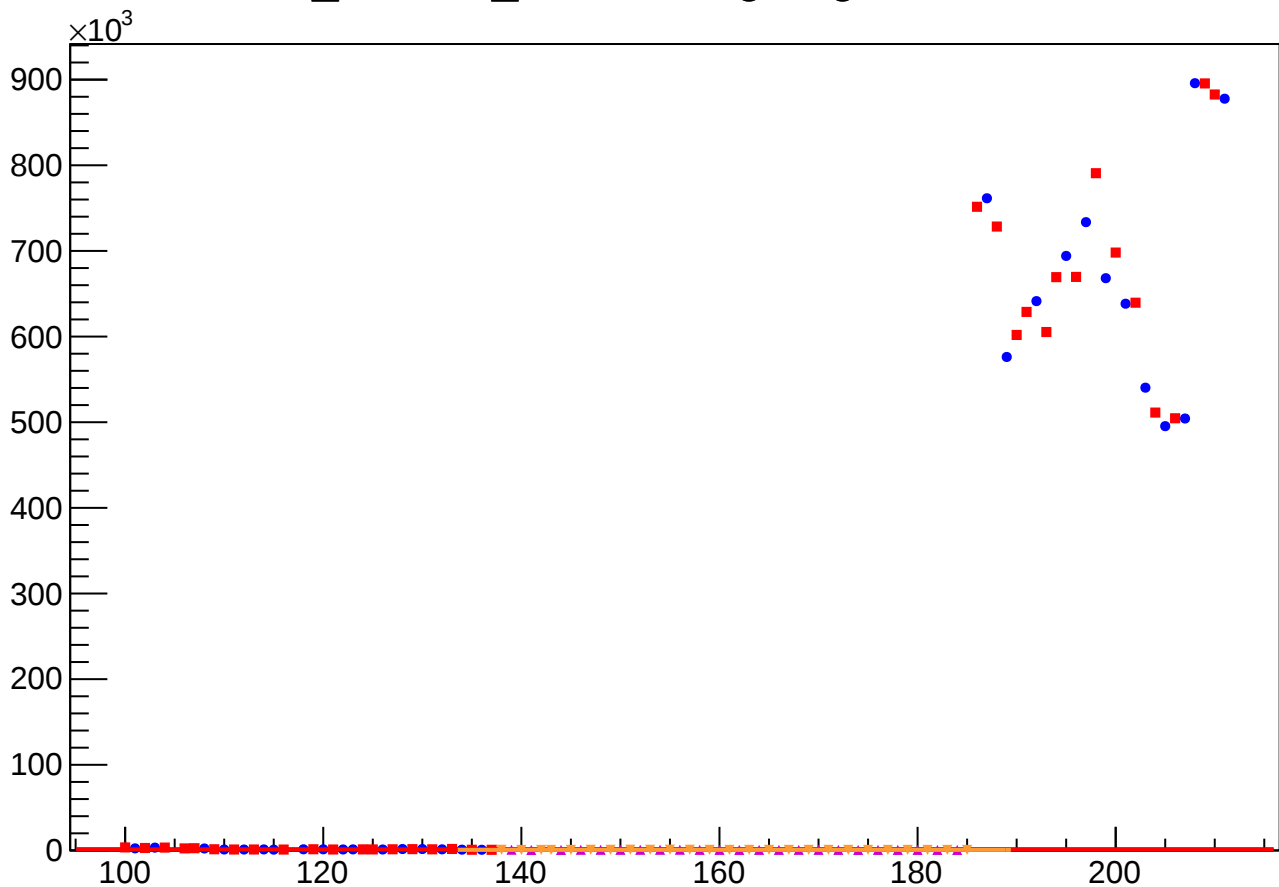
Right: -0.063 ± 0.348 $\chi^2/\text{NDF}: 75.0/62$

In: -0.063 ± 0.161 $\chi^2/\text{NDF}: 72.0/52$

Out: -0.637 ± 0.156 $\chi^2/\text{NDF}: 96.4/57$

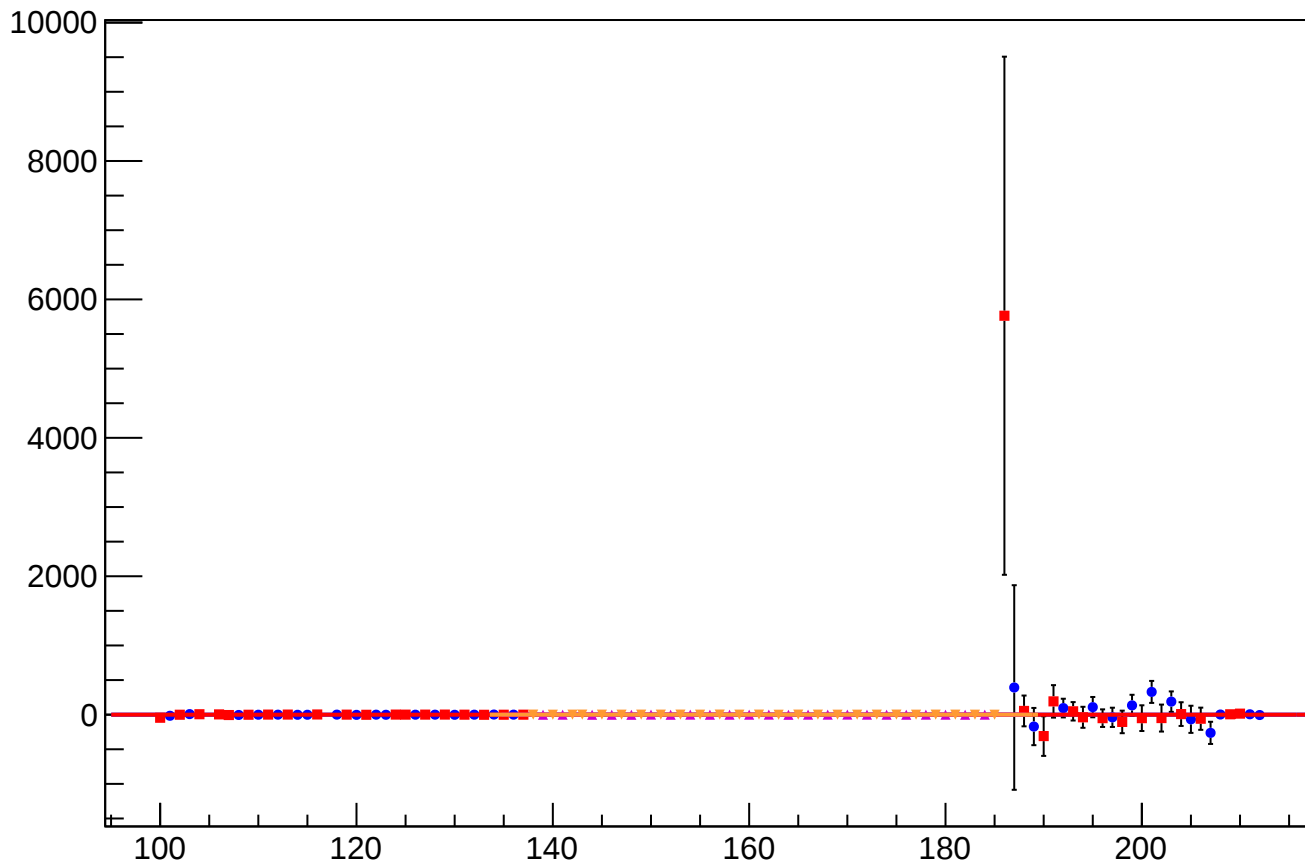
All: -0.359 ± 0.112 $\chi^2/\text{NDF}: 175.0/110$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.189 $\pm$ 0.342 χ^2 /NDF: 18156278.4/28
 Left: 703.867 $\pm$ 0.084 χ^2 /NDF: 726141.0/47
 Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF: 392855.4/24
 Right: 1209.212 $\pm$ 0.246 χ^2 /NDF: 37169275.1/61
 Right Out: 1251.257 $\pm$ 0.355 χ^2 /NDF: 18985888.9/32
 In: 758.423 $\pm$ 0.114 χ^2 /NDF: 20122670.8/51
 Left In: 706.971 $\pm$ 0.121 χ^2 /NDF: 332011.4/22
 Out: 754.488 $\pm$ 0.111 χ^2 /NDF: 21552750.8/57
 All: 756.398 $\pm$ 0.079 χ^2 /NDF: 41676036.4/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.048 ± 0.268 χ^2/NDF : 32.0/29

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

Right Out: -0.239 ± 0.264 χ^2/NDF : 32.6/32

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

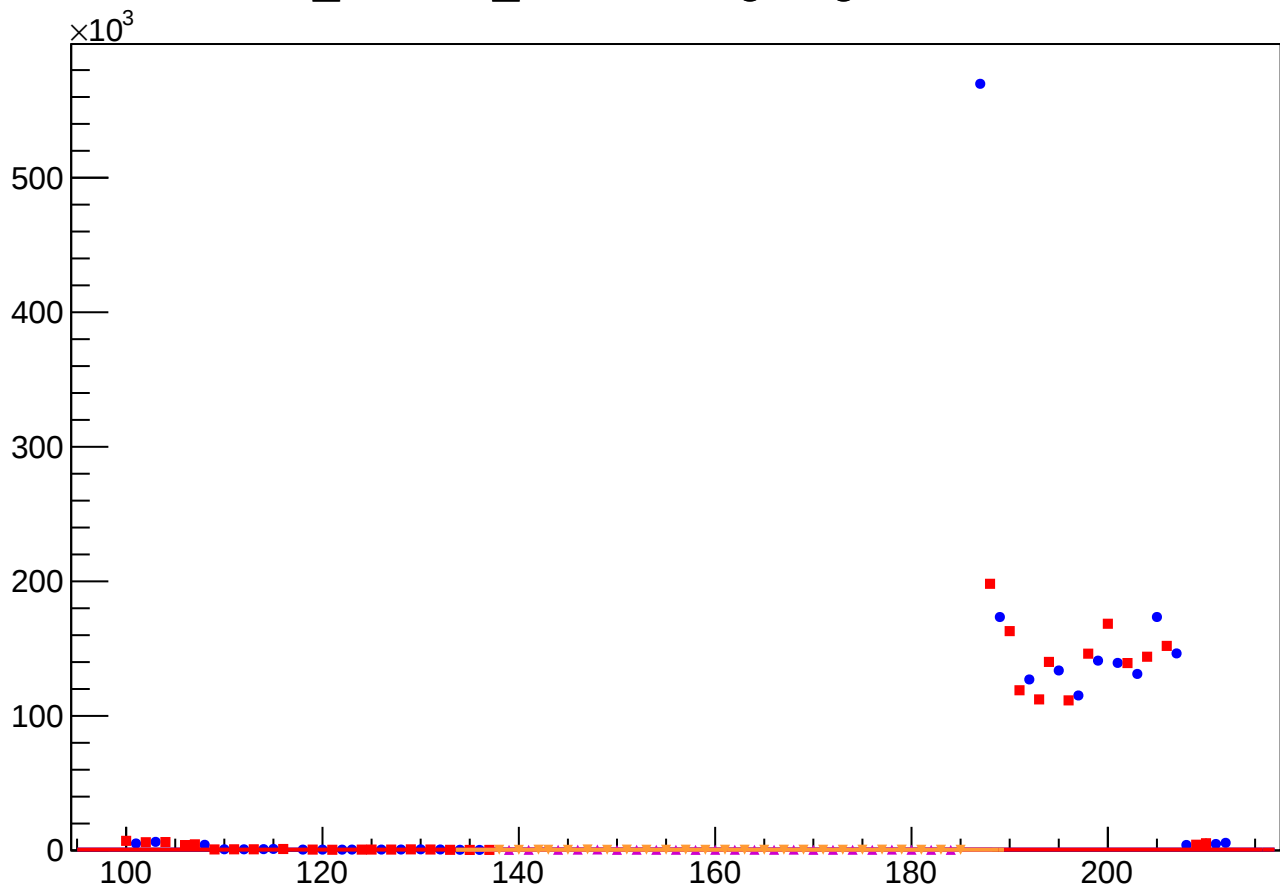
Right: -0.145 ± 0.188 χ^2/NDF : 64.9/62

In: -0.111 ± 0.114 χ^2/NDF : 67.1/52

Out: 0.149 ± 0.111 χ^2/NDF : 53.3/57

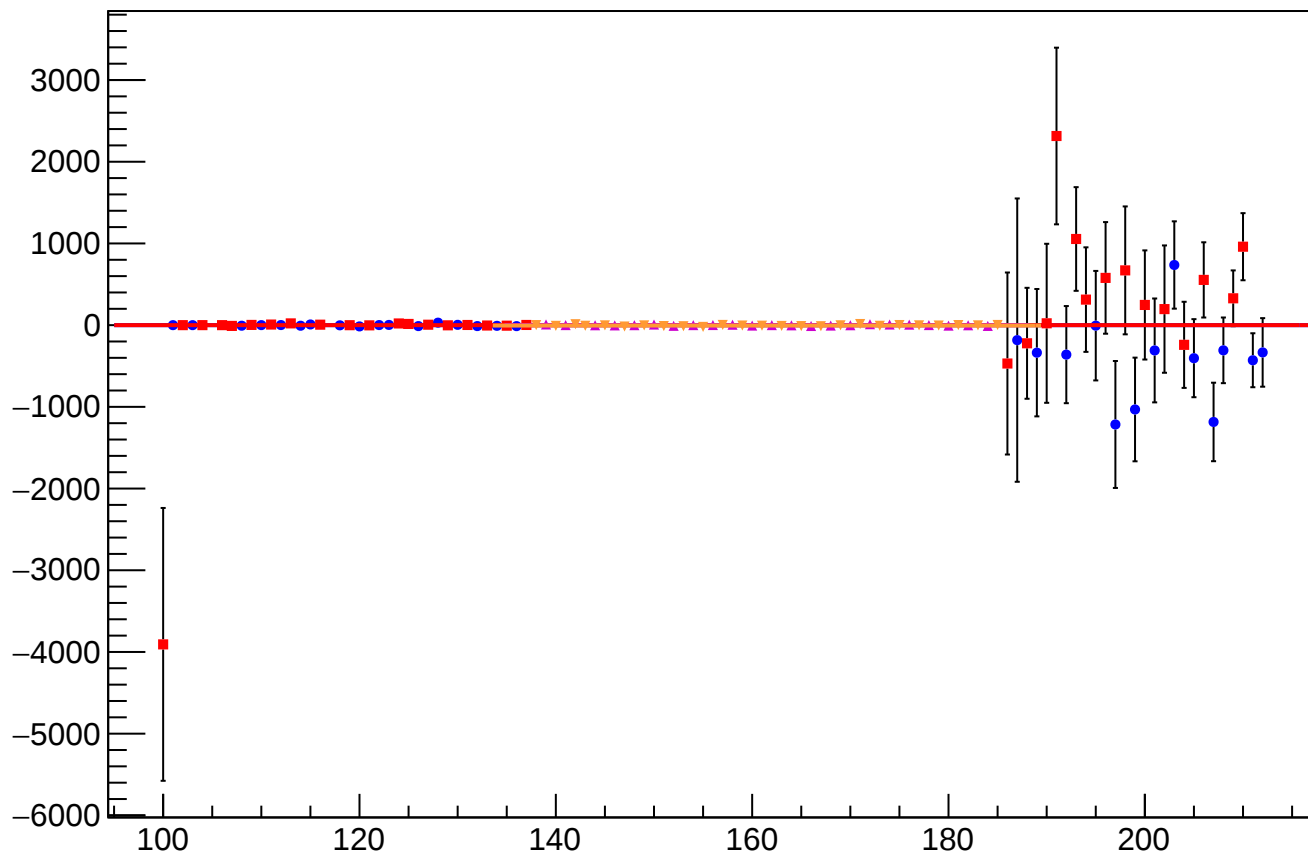
All: 0.022 ± 0.080 χ^2/NDF : 123.0/110

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 639.612+/-0.190	χ^2/NDF : 20119941.8/29	Left: 521.481+/-0.062	χ^2/NDF : 758275.0/47
Left Out: 522.220+/-0.087	χ^2/NDF : 330405.3/24	Right: 629.898+/-0.133	χ^2/NDF : 40602169.4/61
Right Out: 620.493+/-0.187	χ^2/NDF : 20477060.8/31	In: 542.250+/-0.081	χ^2/NDF : 20869746.7/52
Left In: 520.700+/-0.089	χ^2/NDF : 427720.5/22	Out: 539.673+/-0.079	χ^2/NDF : 21035675.4/56
		All: 540.928+/-0.056	χ^2/NDF : 41905945.1/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 33.5/29

Left Out: -4.480 ± 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 35.0/32

Left In: 0.183 ± 0.994 χ^2/NDF : 29.5/22

Left: -2.236 ± 0.689 χ^2/NDF : 99.3/47

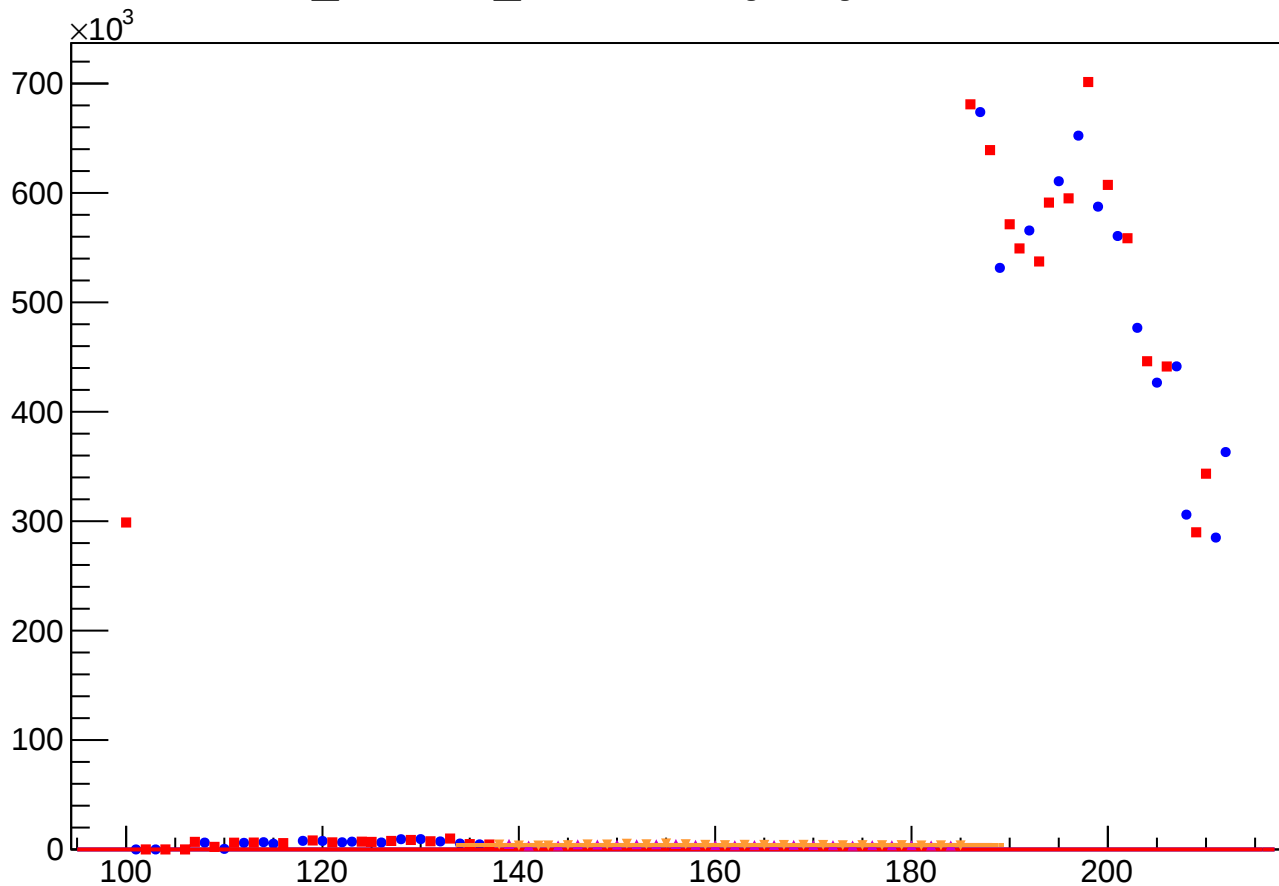
Right: 0.004 ± 0.014 χ^2/NDF : 71.3/62

In: -0.022 ± 0.021 χ^2/NDF : 63.0/52

Out: 0.025 ± 0.020 χ^2/NDF : 115.6/57

All: 0.003 ± 0.014 χ^2/NDF : 181.2/110

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.348+/-0.015 χ^2/NDF : 28865279.2/29

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

Right Out: 17.275+/-0.014 χ^2/NDF : 29531305.3/32

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

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

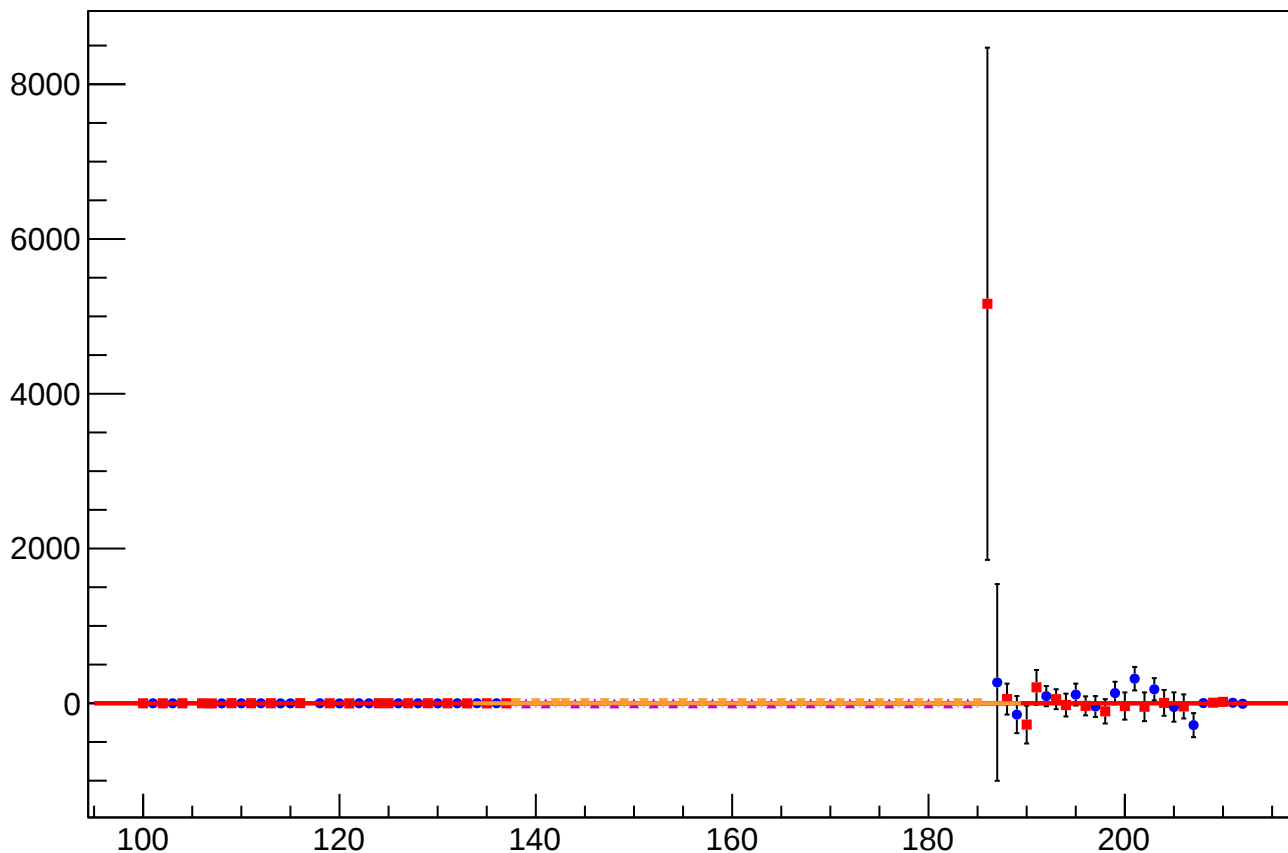
Right: 17.309+/-0.010 χ^2/NDF : 58396597.5/62

In: 19.140+/-0.015 χ^2/NDF : 63167672.5/52

Out: 19.007+/-0.014 χ^2/NDF : 65884234.2/57

All: 19.070+/-0.010 χ^2/NDF : 129051949.9/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 27.2/29

Left Out: 0.148 $\pm$ 0.076 χ^2 /NDF:17.3/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 31.2/32

Left In: -0.080 $\pm$ 0.079 χ^2 /NDF:34.6/22

Left: 0.038 $\pm$ 0.055 χ^2 /NDF: 56.3/47

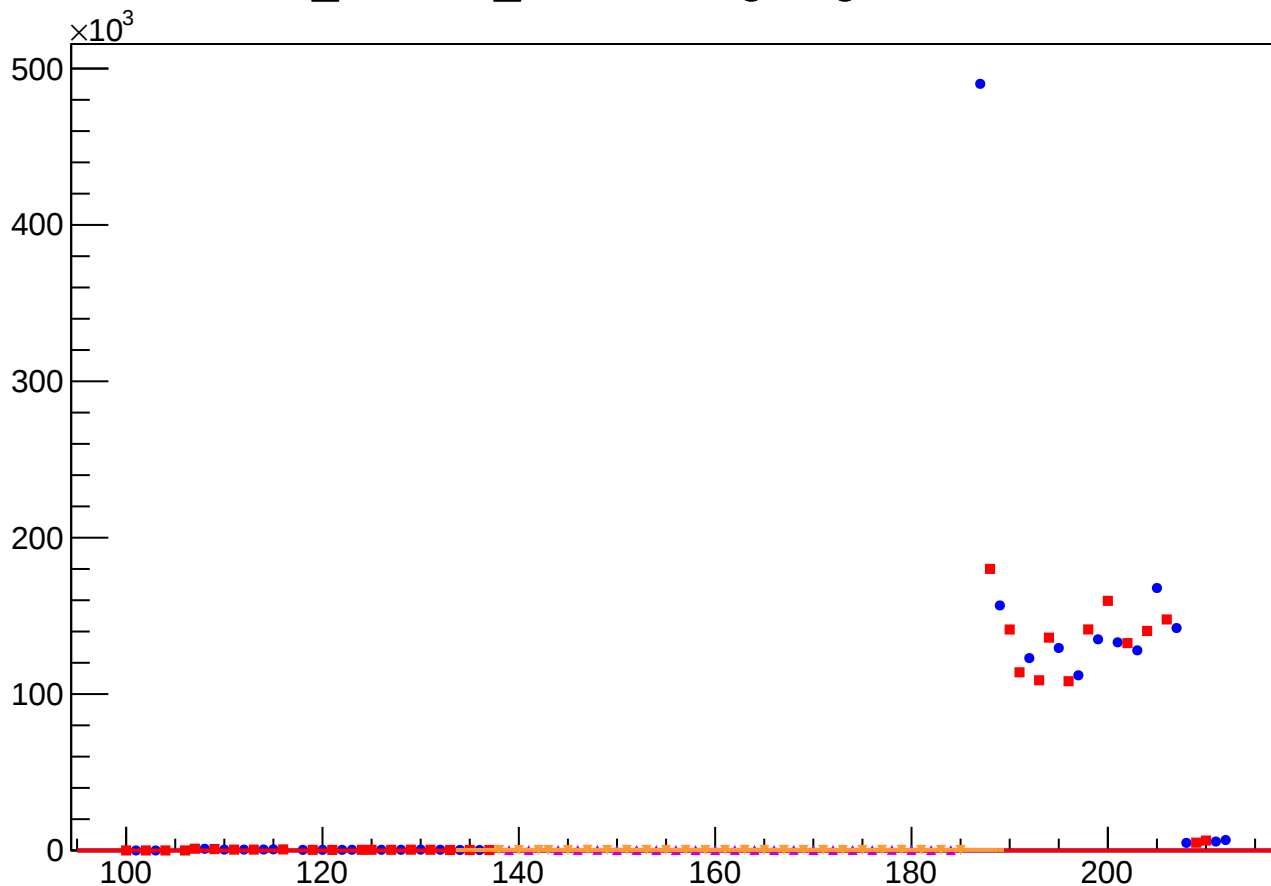
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 58.5/62

In: 0.000 $\pm$ 0.002 χ^2 /NDF:62.9/52

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:52.3/57

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 115.3/110

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.701 $\pm$ 0.001 χ^2 /NDF: 29131670.7/29

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

Right Out: 1.729 $\pm$ 0.001 χ^2 /NDF: 28482166.4/31

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

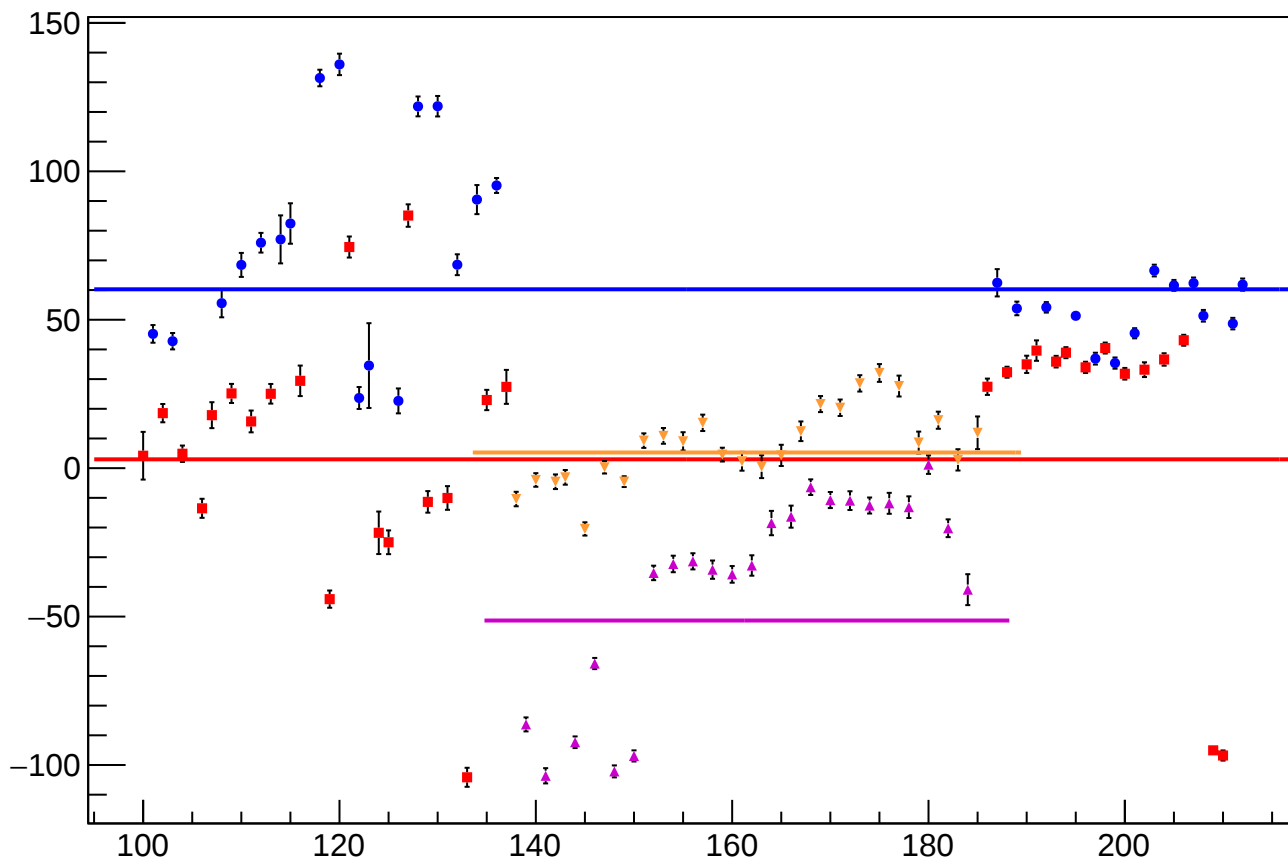
Right: 1.716 $\pm$ 0.001 χ^2 /NDF: 57614046.4/61

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 63273479.5/52

Out: 1.938 $\pm$ 0.001 χ^2 /NDF: 64689445.9/56

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 127963065.4/109

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 60.256 ± 0.464 $\chi^2/\text{NDF}: 2777.5/29$

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

Right Out: 2.976 ± 0.447 $\chi^2/\text{NDF}: 14498.6/32$

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

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

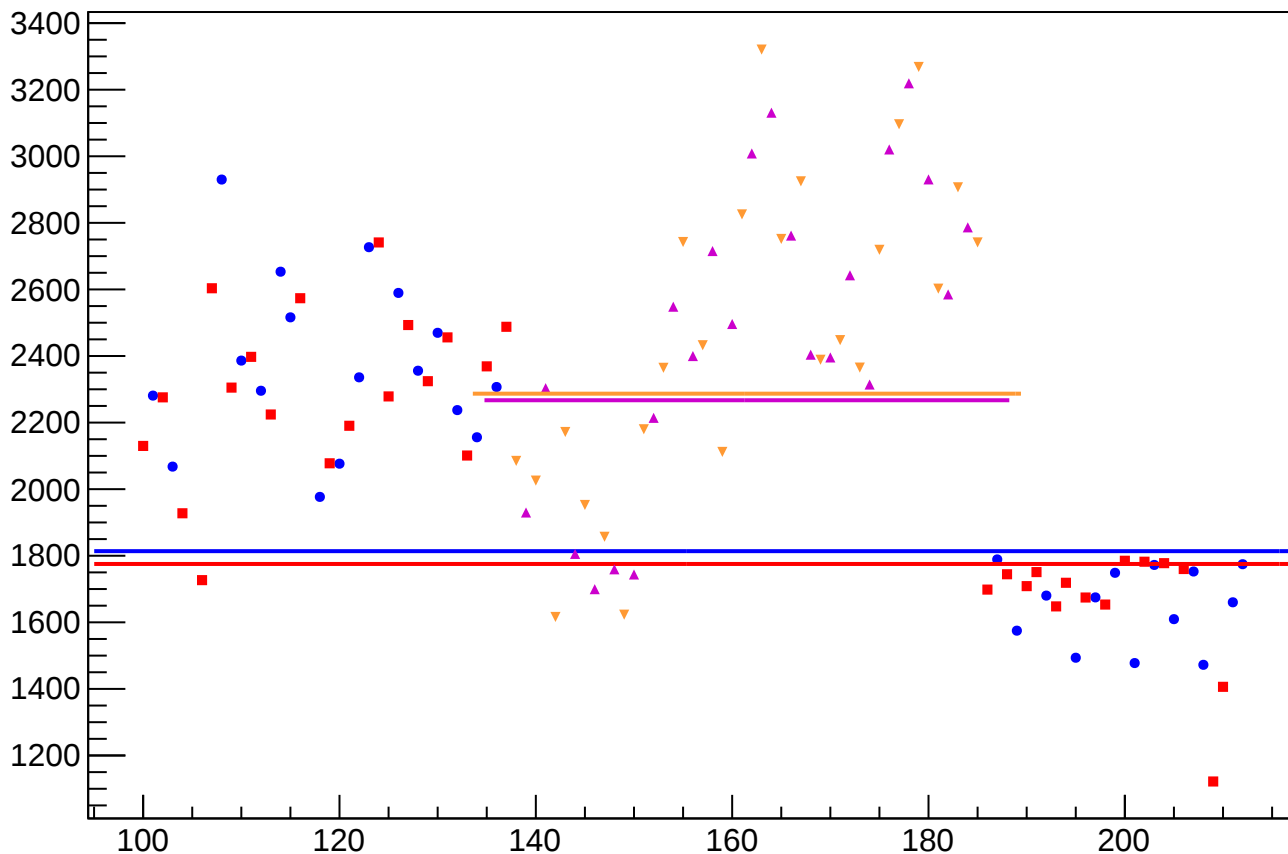
Right: 30.545 ± 0.322 $\chi^2/\text{NDF}: 25195.9/62$

In: 14.727 ± 0.357 $\chi^2/\text{NDF}: 30677.5/52$

Out: 3.901 ± 0.345 $\chi^2/\text{NDF}: 15065.4/57$

All: 9.137 ± 0.248 $\chi^2/\text{NDF}: 46218.6/110$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1813.795 $\pm$ 0.328

χ^2 /NDF: 972979.6/29

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

Right: 1793.828 $\pm$ 0.227 χ^2 /NDF: 2327830.0/62

Left Out: 2286.871 $\pm$ 0.385

χ^2 /NDF: 1360490.8/24

In: 1998.753 $\pm$ 0.252 χ^2 /NDF: 3066699.6/52

Right Out: 1775.300 $\pm$ 0.316

χ^2 /NDF: 1347696.9/32

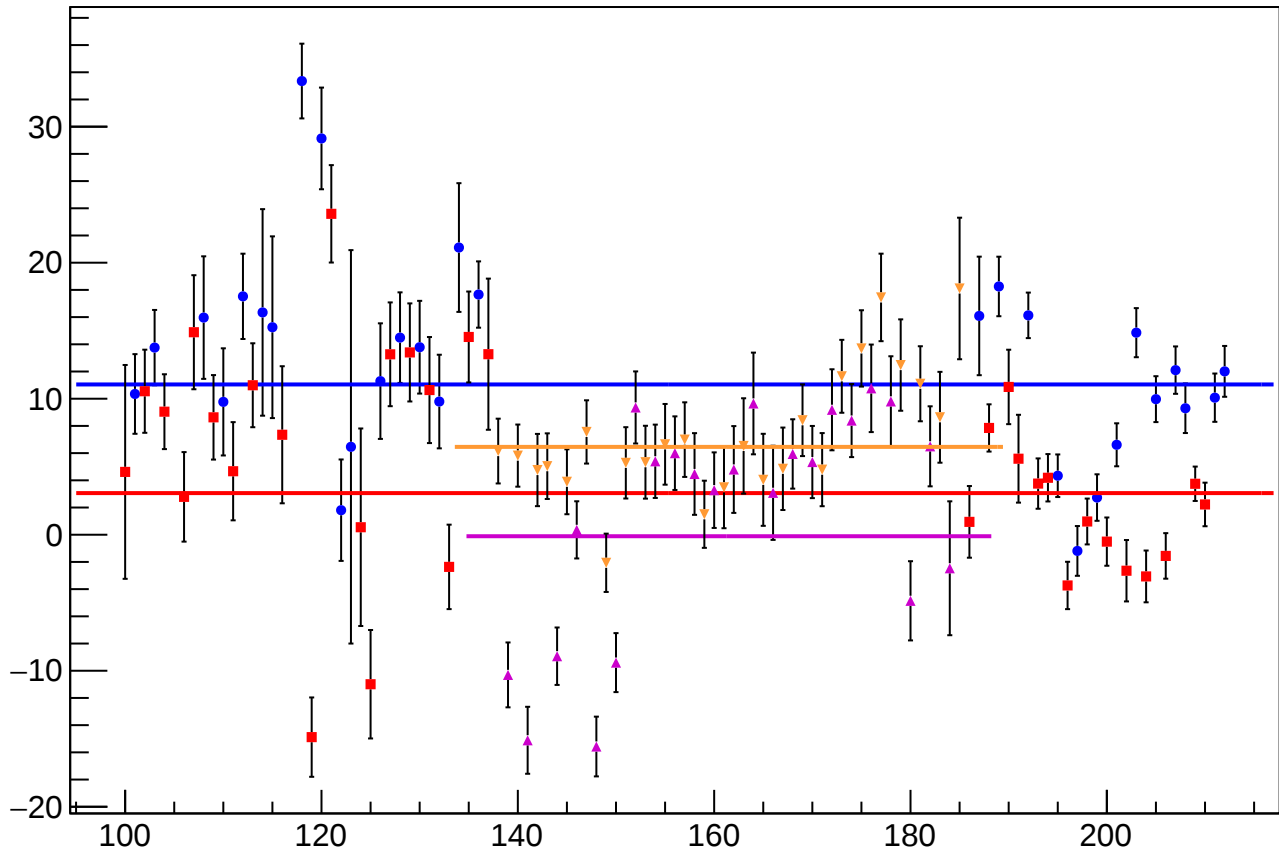
Out: 1981.157 $\pm$ 0.244 χ^2 /NDF: 3764454.5/57

Left In: 2267.097 $\pm$ 0.395

χ^2 /NDF: 1313364.4/22

All: 1989.668 $\pm$ 0.175 χ^2 /NDF: 6833667.7/111

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.049 ± 0.436 $\chi^2/\text{NDF}: 239.5/29$

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

Right Out: 3.061 ± 0.422 $\chi^2/\text{NDF}: 213.4/32$

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

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

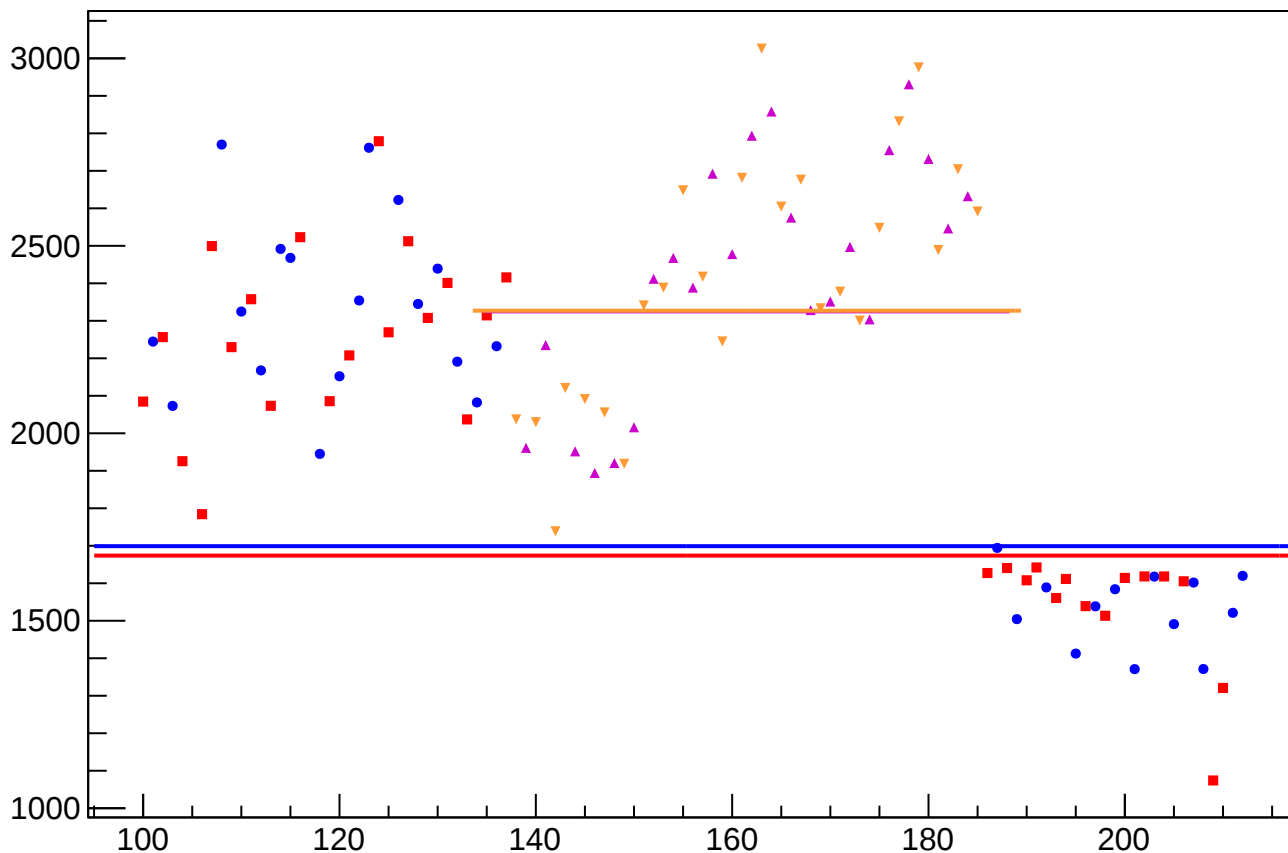
Right: 6.929 ± 0.303 $\chi^2/\text{NDF}: 626.5/62$

In: 6.891 ± 0.345 $\chi^2/\text{NDF}: 718.7/52$

Out: 4.327 ± 0.334 $\chi^2/\text{NDF}: 296.3/57$

All: 5.568 ± 0.240 $\chi^2/\text{NDF}: 1043.5/110$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1698.958 $\pm$ 0.308

χ^2/NDF : 1225186.9/29

Left Out: 2327.044 $\pm$ 0.387

χ^2/NDF : 646706.7/24

Right Out: 1673.830 $\pm$ 0.298

χ^2/NDF : 1539801.6/32

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: 1685.998 $\pm$ 0.214

χ^2/NDF : 2768422.3/62

In: 1932.276 $\pm$ 0.244

χ^2/NDF : 3376550.1/52

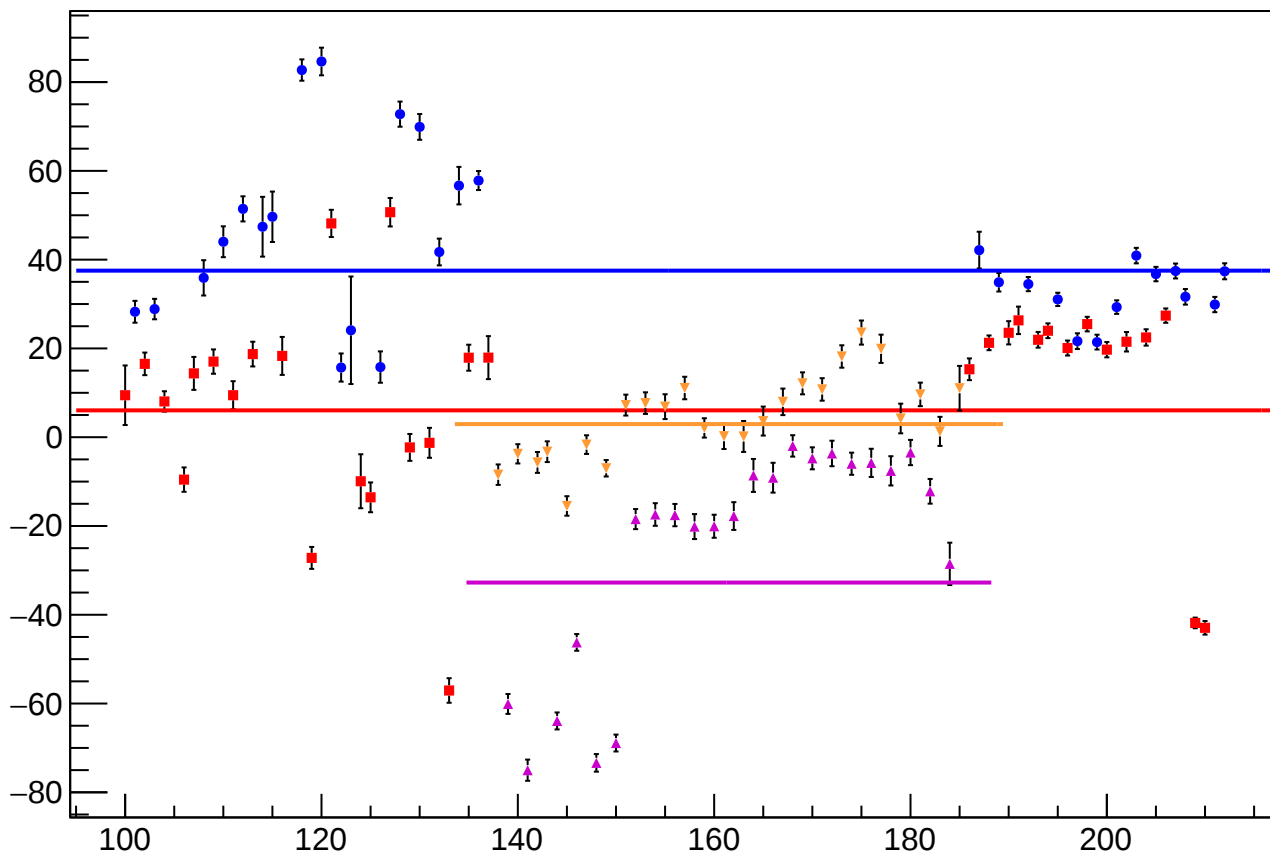
Out: 1917.244 $\pm$ 0.236

χ^2/NDF : 3972150.5/57

All: 1924.523 $\pm$ 0.170

χ^2/NDF : 7350659.1/11

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 37.521 ± 0.407 $\chi^2/\text{NDF}: 1385.1/29$

Left Out: 2.952 ± 0.512 $\chi^2/\text{NDF}: 337.8/24$

Right Out: 6.047 ± 0.393 $\chi^2/\text{NDF}: 4834.0/32$

Left In: -32.745 ± 0.526 $\chi^2/\text{NDF}: 2632.5/22$

Left: -14.409 ± 0.367 $\chi^2/\text{NDF}: 5335.1/47$

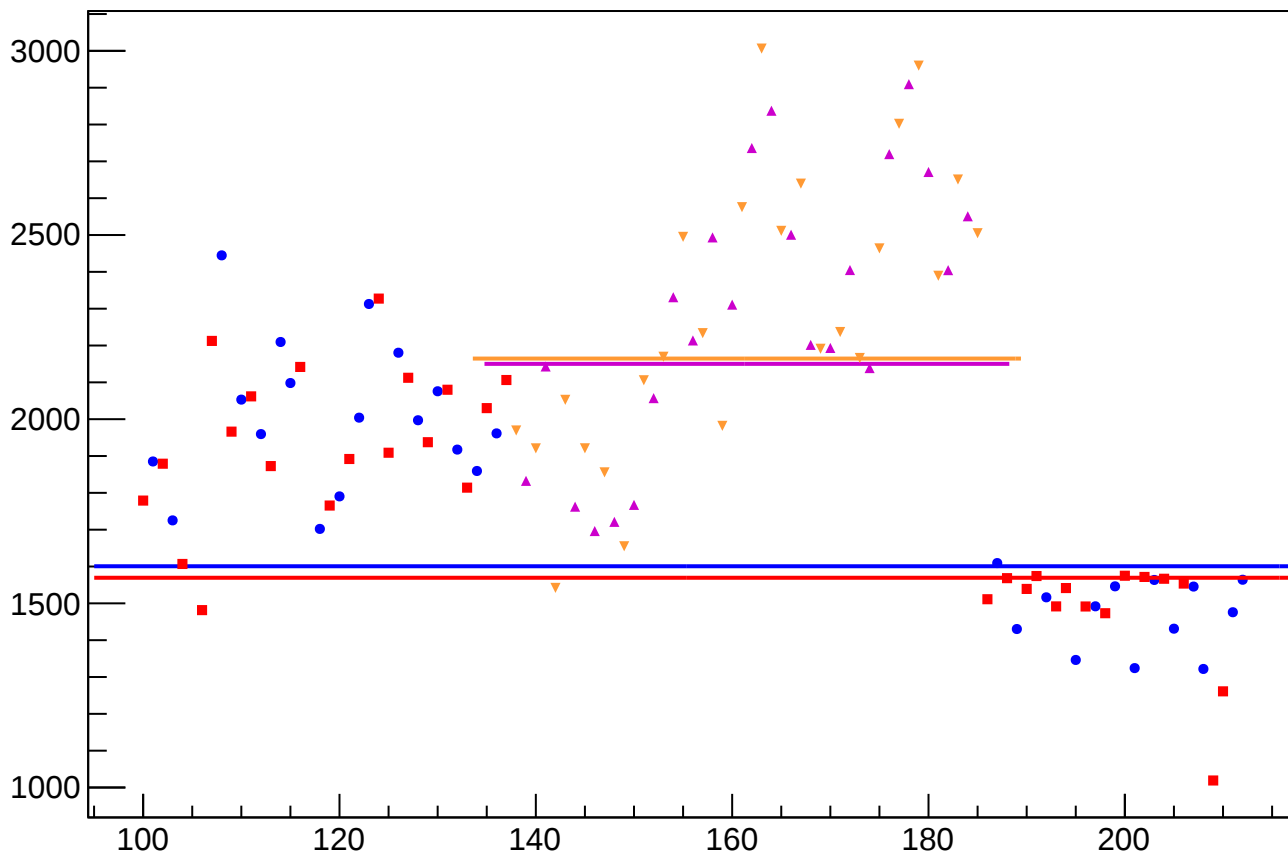
Right: 21.220 ± 0.283 $\chi^2/\text{NDF}: 9312.5/62$

In: 11.194 ± 0.322 $\chi^2/\text{NDF}: 15171.5/52$

Out: 4.899 ± 0.312 $\chi^2/\text{NDF}: 5194.8/57$

All: 7.944 ± 0.224 $\chi^2/\text{NDF}: 20563.5/110$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1600.709 $\pm$ 0.288 χ^2 /NDF: 742069.9/29

Left Out: 2164.573 $\pm$ 0.362 χ^2 /NDF:965603.5/24

Right Out: 1569.471 $\pm$ 0.278 χ^2 /NDF: 1072285.6/32

Left In: 2150.190 $\pm$ 0.372 χ^2 /NDF:911849.7/22

Left: 2157.578 $\pm$ 0.259 χ^2 /NDF: 1878220.9/47

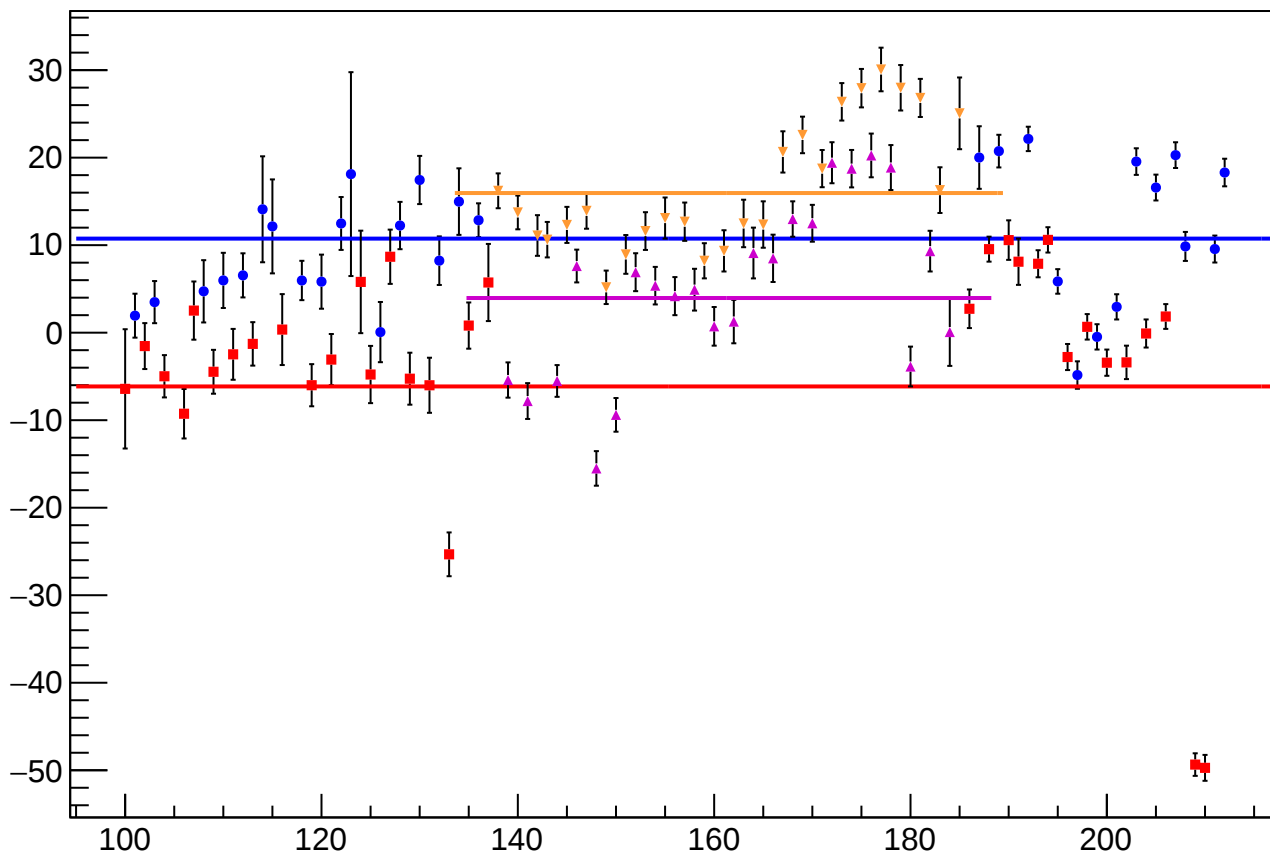
Right: 1584.531 $\pm$ 0.200 χ^2 /NDF: 1820449.9/62

In: 1806.583 $\pm$ 0.228 χ^2 /NDF:3018105.0/52

Out: 1790.086 $\pm$ 0.220 χ^2 /NDF:3738660.8/57

All: 1798.065 $\pm$ 0.158 χ^2 /NDF: 6759475.5/11

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 10.748 $\pm$ 0.371 χ^2 /NDF: 474.5/29

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

Right Out: -6.144 $\pm$ 0.361 χ^2 /NDF: 2627.6/32

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

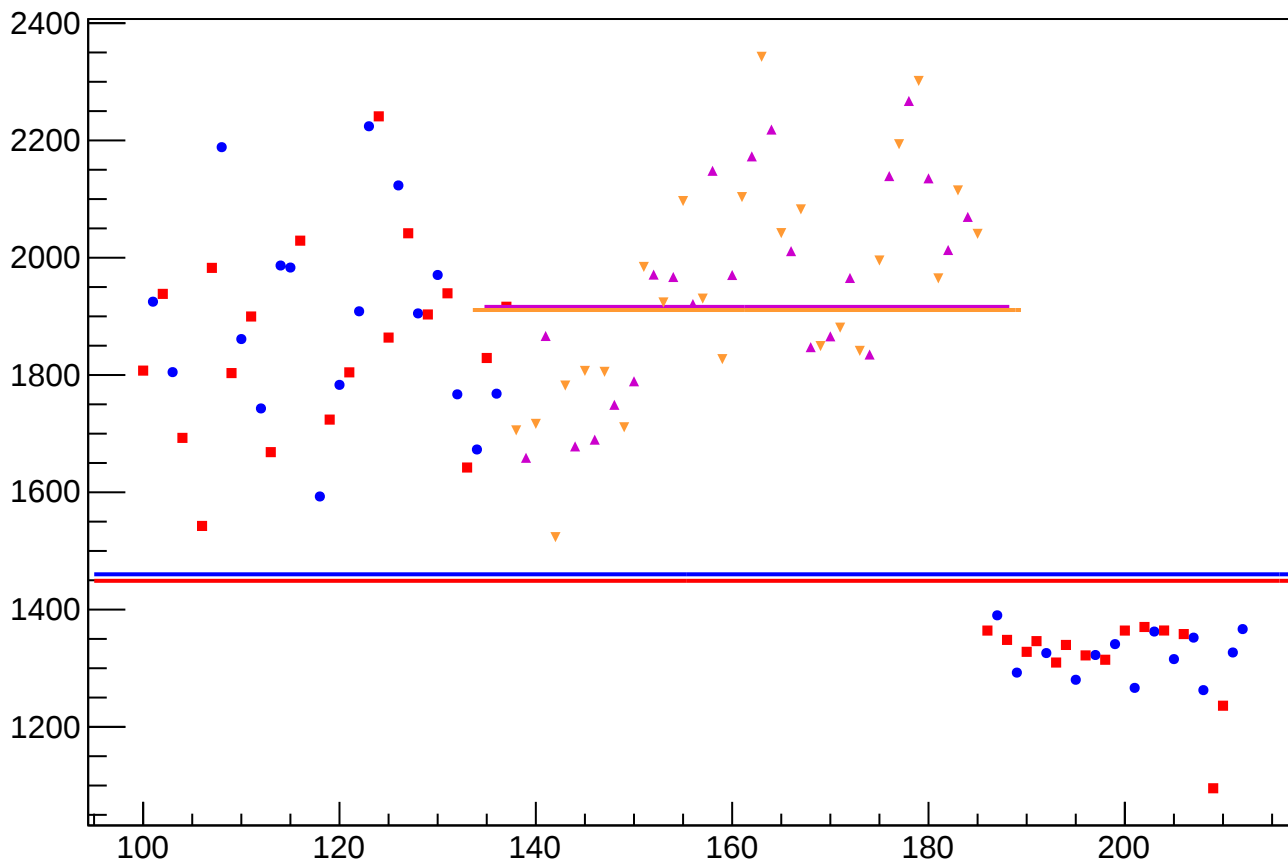
Right: 2.082 $\pm$ 0.259 χ^2 /NDF: 4165.9/62

In: 8.093 $\pm$ 0.289 χ^2 /NDF:1070.3/52

Out: 2.582 $\pm$ 0.281 χ^2 /NDF:4349.3/57

All: 5.257 $\pm$ 0.202 χ^2 /NDF: 5606.2/110

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1460.177 $\pm$ 0.262 χ^2 /NDF: 867385.5/29

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

Right Out: 1449.087 $\pm$ 0.256 χ^2 /NDF: 959160.7/32

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

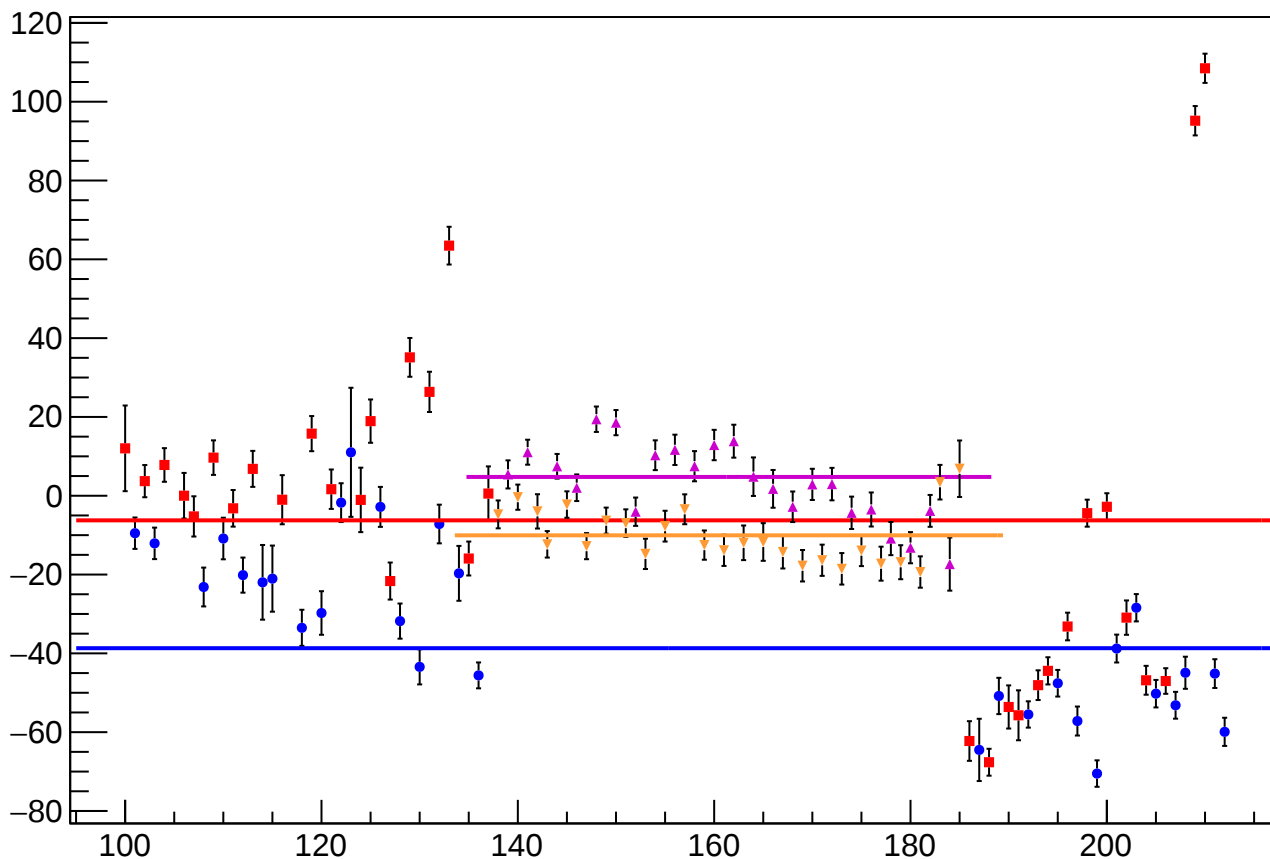
Right: 1454.487 $\pm$ 0.183 χ^2 /NDF: 1827463.3/62

In: 1638.525 $\pm$ 0.205 χ^2 /NDF:2323655.0/52

Out: 1631.415 $\pm$ 0.199 χ^2 /NDF:2577415.5/57

All: 1634.866 $\pm$ 0.143 χ^2 /NDF: 4901691.6/111

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.688 ± 0.779 $\chi^2/\text{NDF}: 580.1/29$

Left Out: -10.042 ± 0.776 $\chi^2/\text{NDF}: 67.1/24$

Right Out: -6.243 ± 0.767 $\chi^2/\text{NDF}: 3331.1/32$

Left In: 4.774 ± 0.800 $\chi^2/\text{NDF}: 128.5/22$

Left: -2.861 ± 0.557 $\chi^2/\text{NDF}: 372.2/47$

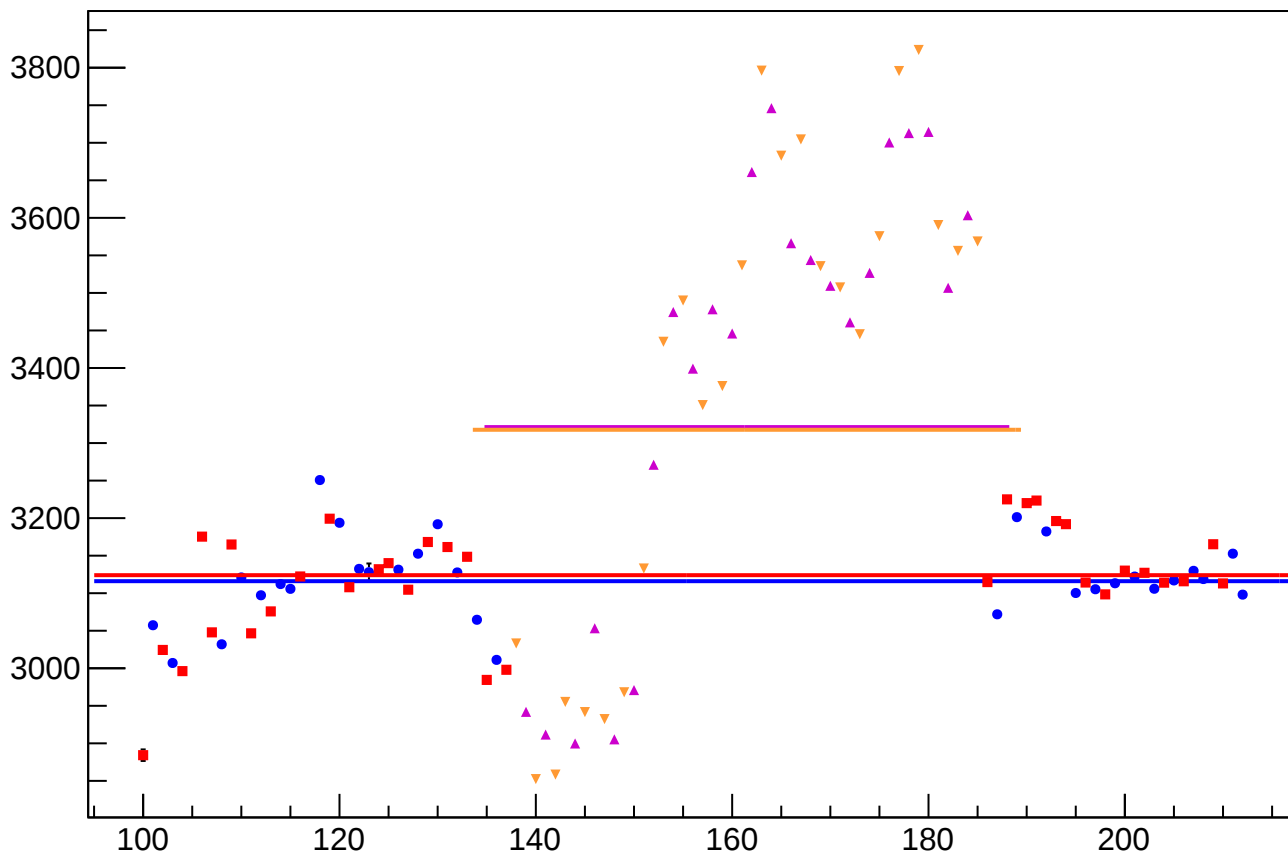
Right: -22.201 ± 0.547 $\chi^2/\text{NDF}: 4791.7/62$

In: -17.536 ± 0.558 $\chi^2/\text{NDF}: 2221.9/52$

Out: -8.119 ± 0.546 $\chi^2/\text{NDF}: 3410.3/57$

All: -12.718 ± 0.390 $\chi^2/\text{NDF}: 5777.7/110$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3116.018 $\pm$ 0.551 χ^2 /NDF: 9487.3/29

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

Right Out: 3124.004 $\pm$ 0.542 χ^2 /NDF: 14035.4/32

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

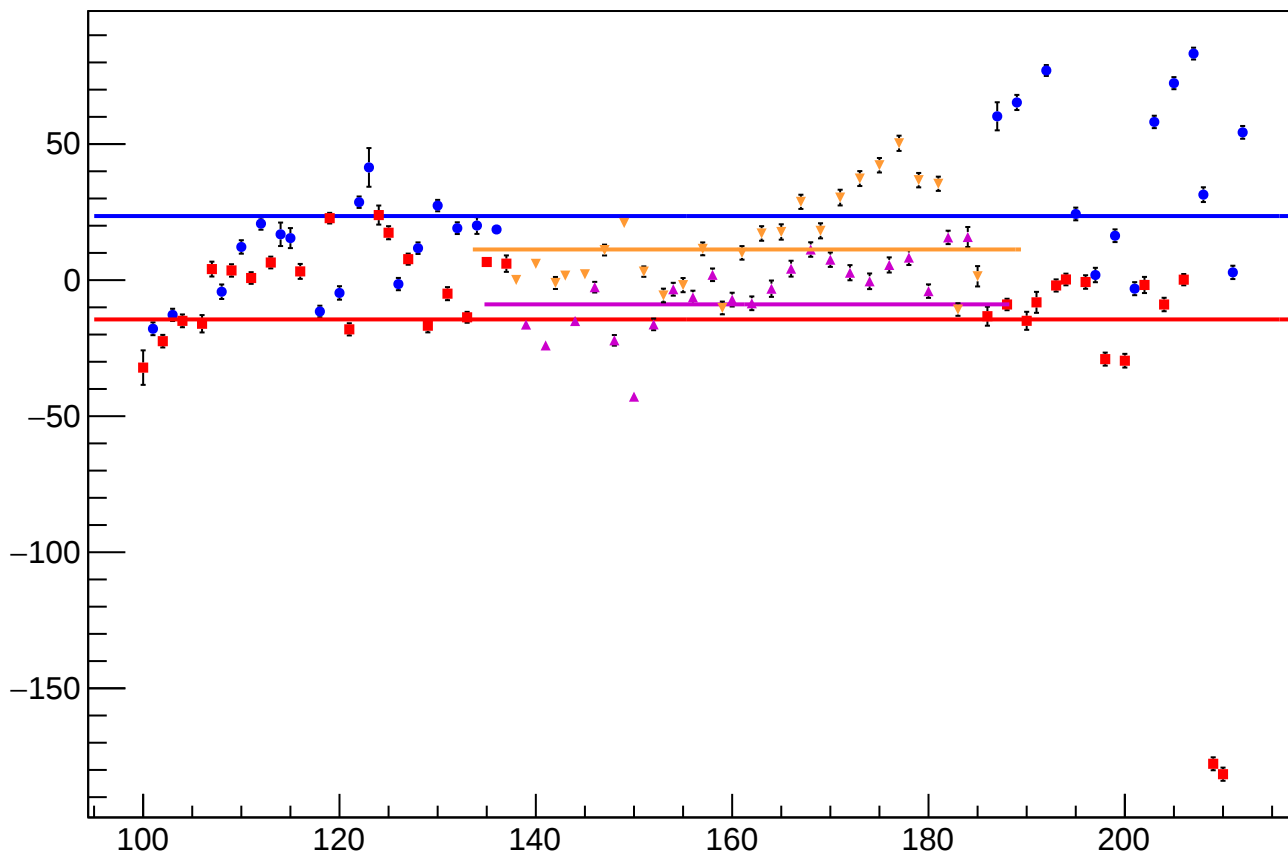
Right: 3120.076 $\pm$ 0.387 χ^2 /NDF: 23629.4/62

In: 3215.912 $\pm$ 0.395 χ^2 /NDF:361324.5/52

Out: 3219.653 $\pm$ 0.386 χ^2 /NDF:413931.6/57

All: 3217.826 $\pm$ 0.276 χ^2 /NDF: 775302.0/110

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.548 ± 0.431 χ^2/NDF : 4203.6/29

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

Right Out: -14.440 ± 0.424 χ^2/NDF : 11016.0/32

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

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

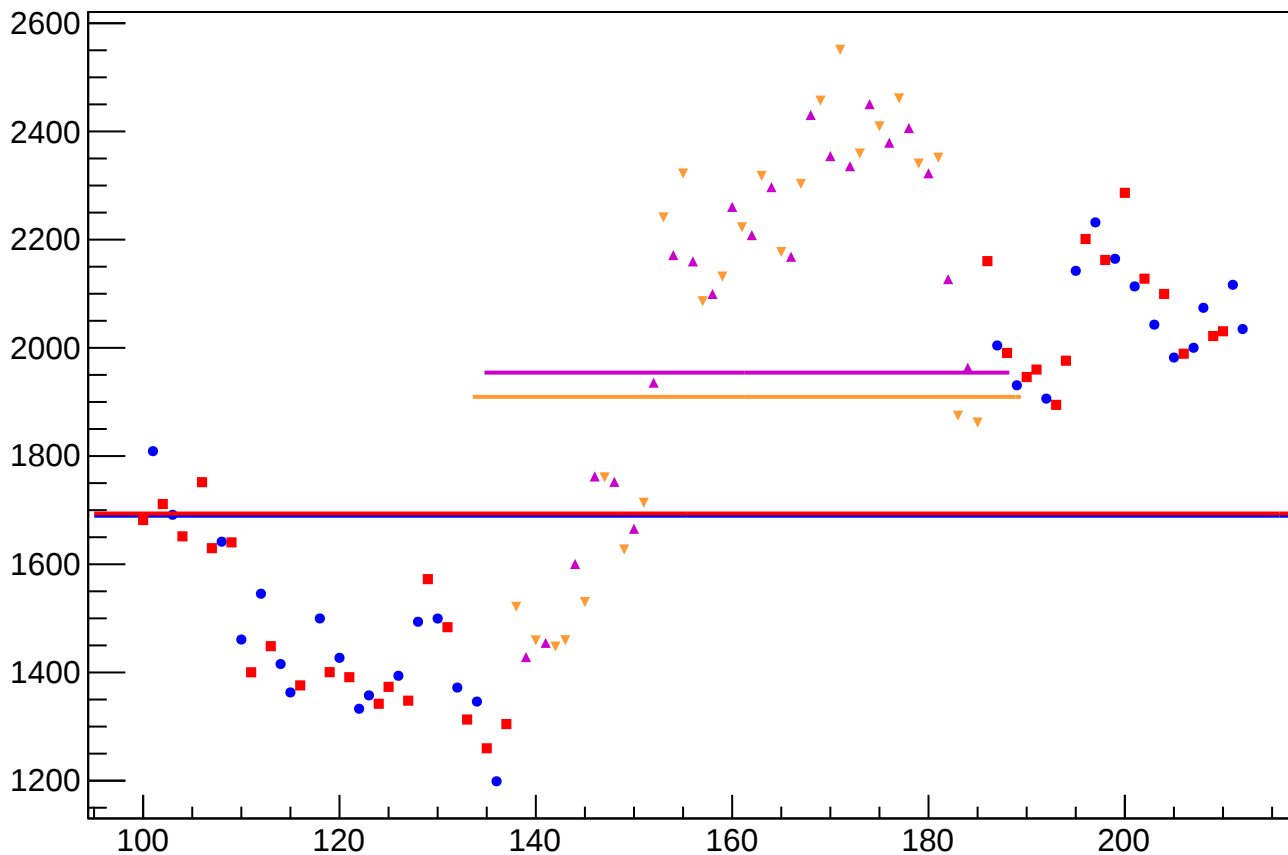
Right: 4.216 ± 0.302 χ^2/NDF : 19164.2/62

In: 8.961 ± 0.320 χ^2/NDF : 7682.6/52

Out: -2.478 ± 0.310 χ^2/NDF : 13869.4/57

All: 3.057 ± 0.223 χ^2/NDF : 22211.0/110

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1689.765 $\pm$ 0.305 χ^2 /NDF: 1187662.1/29

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

Right Out: 1693.816 $\pm$ 0.300 χ^2 /NDF: 1158453.1/32

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

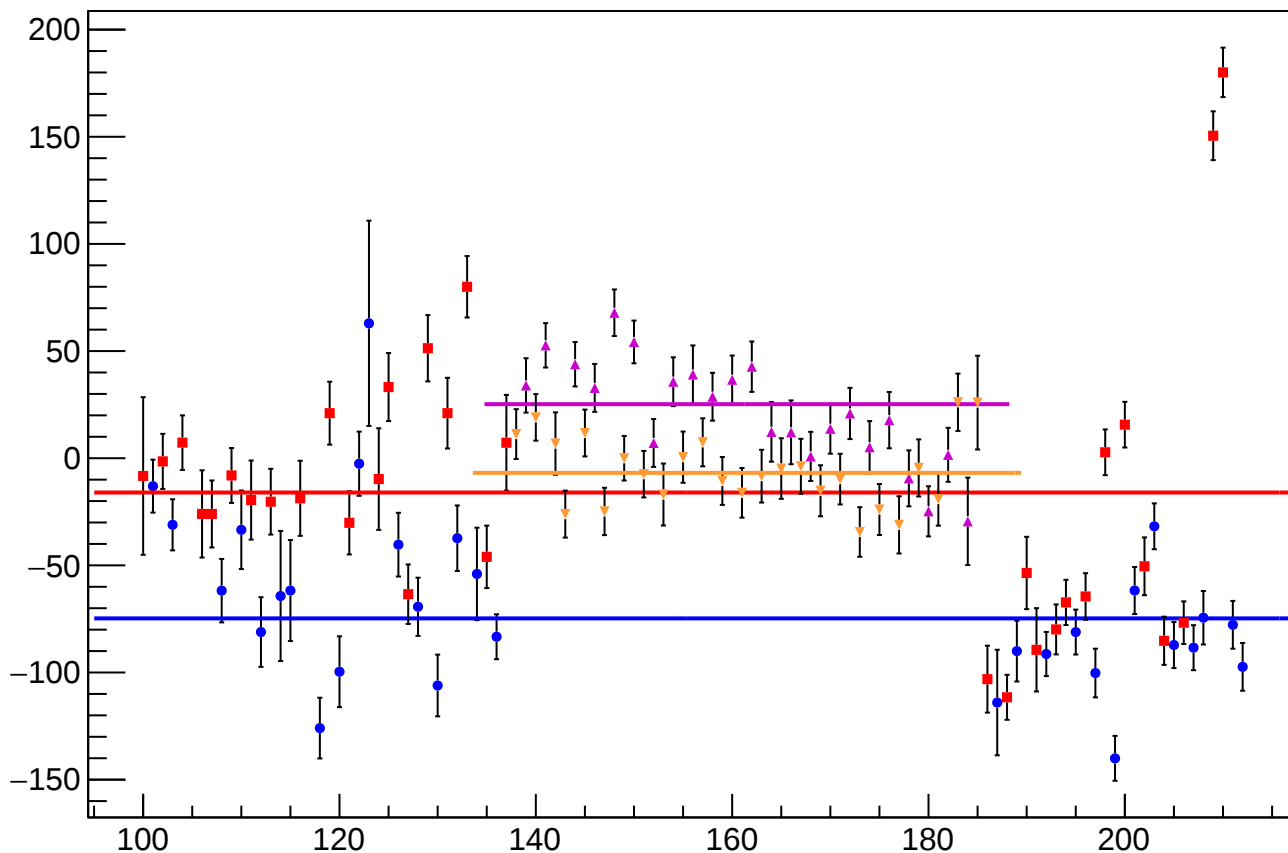
Right: 1691.827 $\pm$ 0.214 χ^2 /NDF: 2346204.9/62

In: 1808.635 $\pm$ 0.226 χ^2 /NDF:2570234.1/52

Out: 1794.125 $\pm$ 0.219 χ^2 /NDF:2797663.9/57

All: 1801.145 $\pm$ 0.157 χ^2 /NDF: 5370018.6/11

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -74.748 $\pm$ 2.419 χ^2/NDF : 184.8/29

Left Out: -6.825 $\pm$ 2.423 χ^2/NDF : 42.3/24

Right Out: -16.006 $\pm$ 2.383 χ^2/NDF : 912.4/32

Left In: 25.215 $\pm$ 2.487 χ^2/NDF : 89.3/22

Left: 8.777 $\pm$ 1.735 χ^2/NDF : 216.8/47

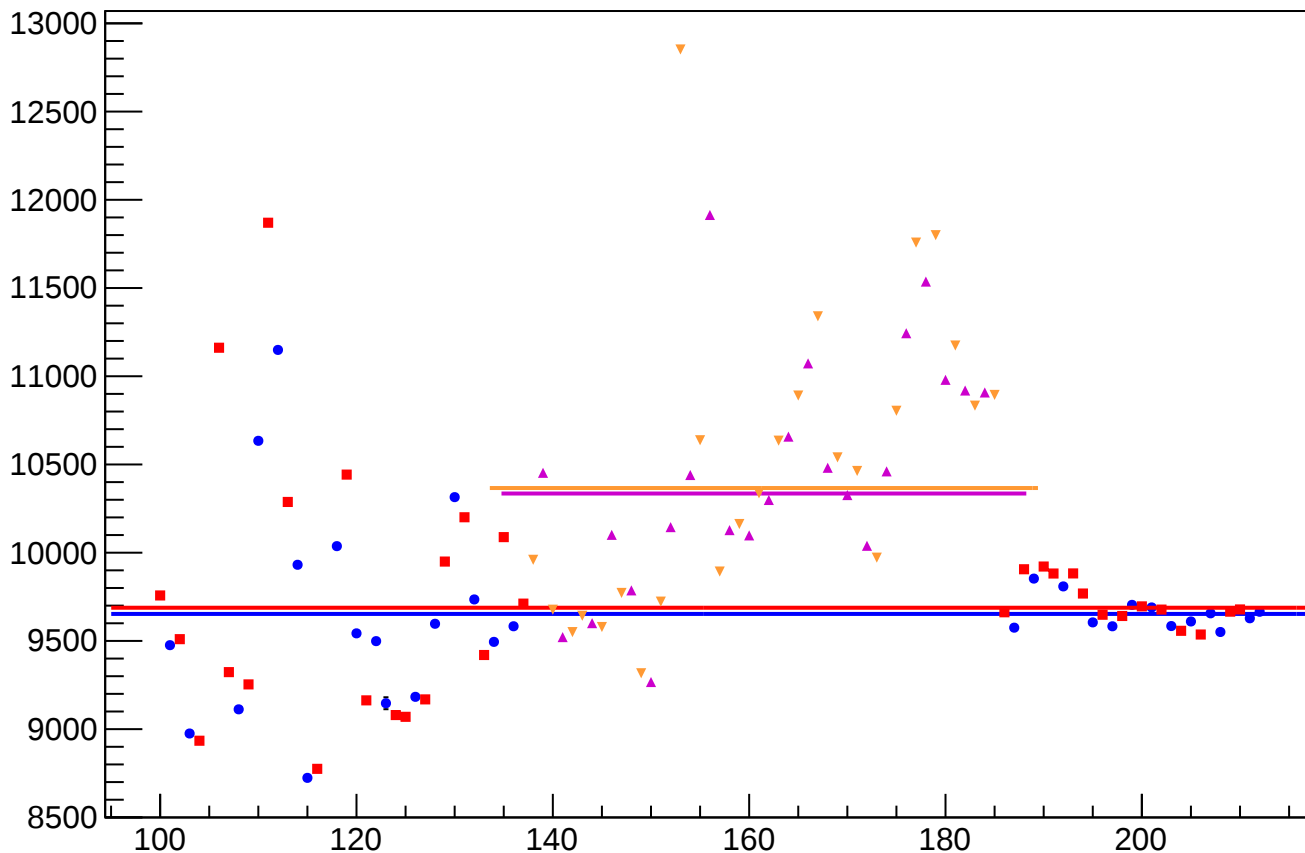
Right: -44.937 $\pm$ 1.697 χ^2/NDF : 1396.6/62

In: -26.151 $\pm$ 1.734 χ^2/NDF : 1104.5/52

Out: -11.491 $\pm$ 1.699 χ^2/NDF : 962.0/57

All: -18.671 $\pm$ 1.213 χ^2/NDF : 2103.1/110

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9652.984 $\pm$ 1.710 χ^2 /NDF: 45328.9/29

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

Right Out: 9688.101 $\pm$ 1.685 χ^2 /NDF: 80350.9/32

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

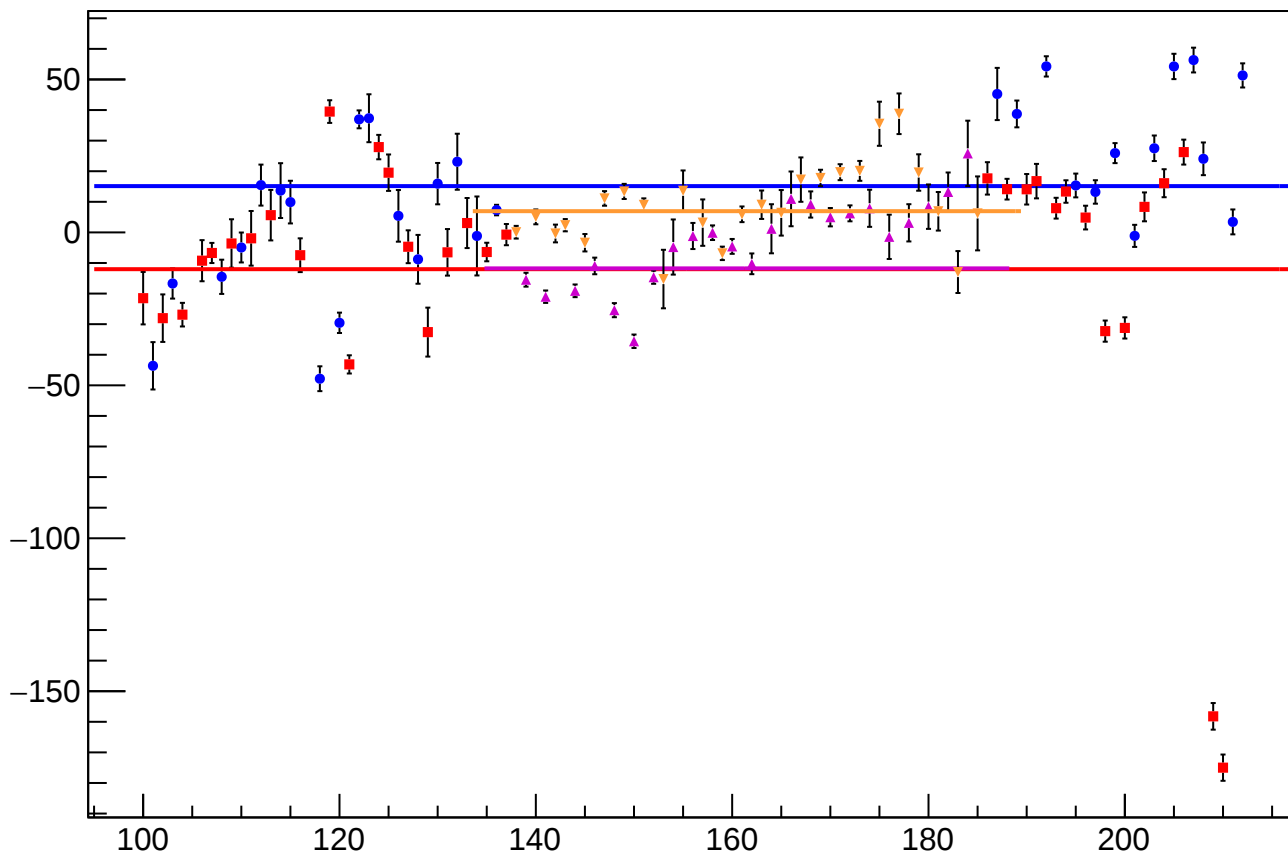
Right: 9670.805 $\pm$ 1.200 χ^2 /NDF: 125893.7/62

In: 9984.741 $\pm$ 1.226 χ^2 /NDF: 249903.8/52

Out: 10021.694 $\pm$ 1.201 χ^2 /NDF: 371482.3/57

All: 10003.595 $\pm$ 0.858 χ^2 /NDF: 621849.6/111

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 15.133 ± 0.773 $\chi^2/\text{NDF}: 1171.4/29$

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

Right Out: -12.026 ± 0.770 $\chi^2/\text{NDF}: 3513.5/32$

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

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

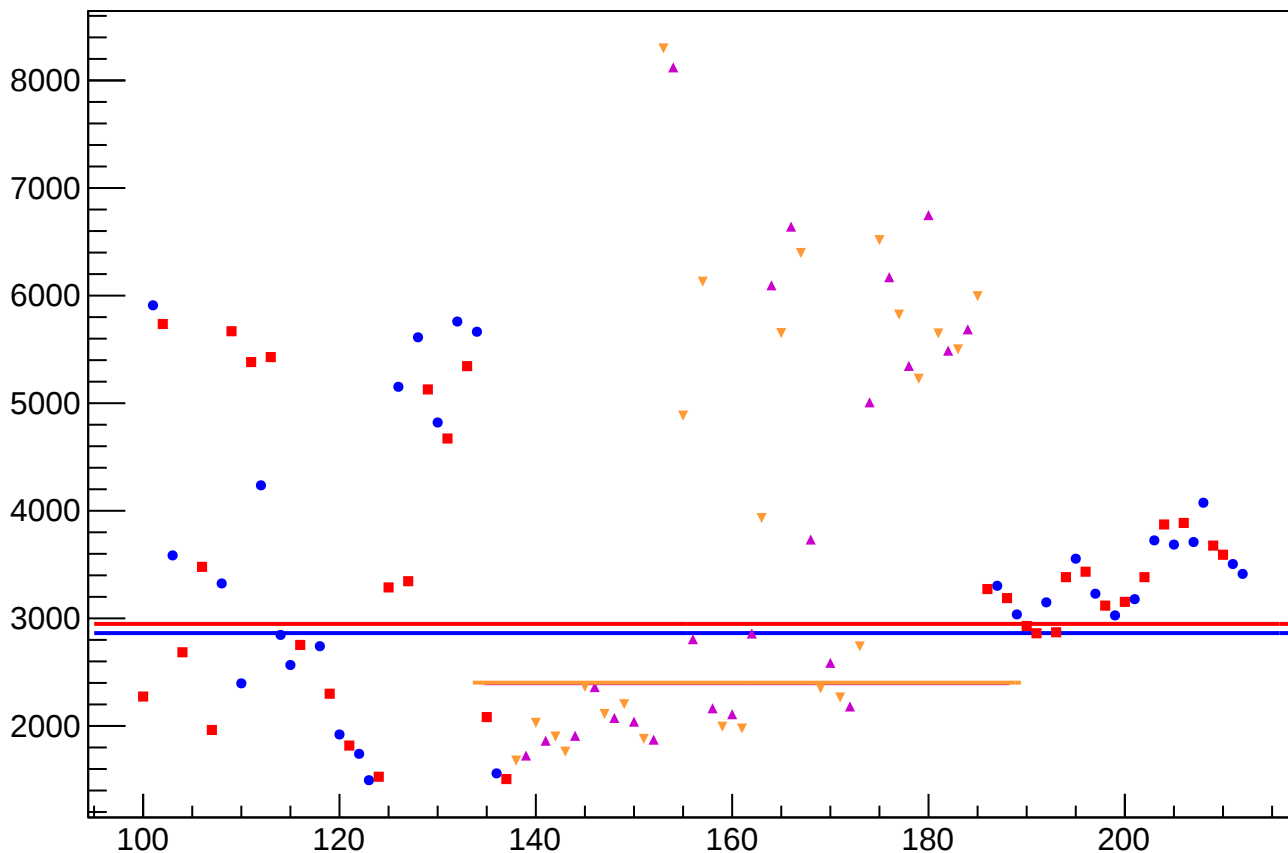
Right: 1.507 ± 0.545 $\chi^2/\text{NDF}: 5304.9/62$

In: -0.650 ± 0.497 $\chi^2/\text{NDF}: 2277.8/52$

Out: -0.793 ± 0.492 $\chi^2/\text{NDF}: 4076.7/57$

All: -0.722 ± 0.349 $\chi^2/\text{NDF}: 6354.5/110$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2863.205 $\pm$ 0.546 χ^2/NDF : 3552372.9/29

Left Out: 2402.359 $\pm$ 0.452 χ^2/NDF : 6345982.8/24

Right Out: 2948.599 $\pm$ 0.544 χ^2/NDF : 2985504.7/32

Left In: 2397.701 $\pm$ 0.458 χ^2/NDF : 5398920.1/22

Left: 2400.065 $\pm$ 0.322 χ^2/NDF : 11744955.3/47

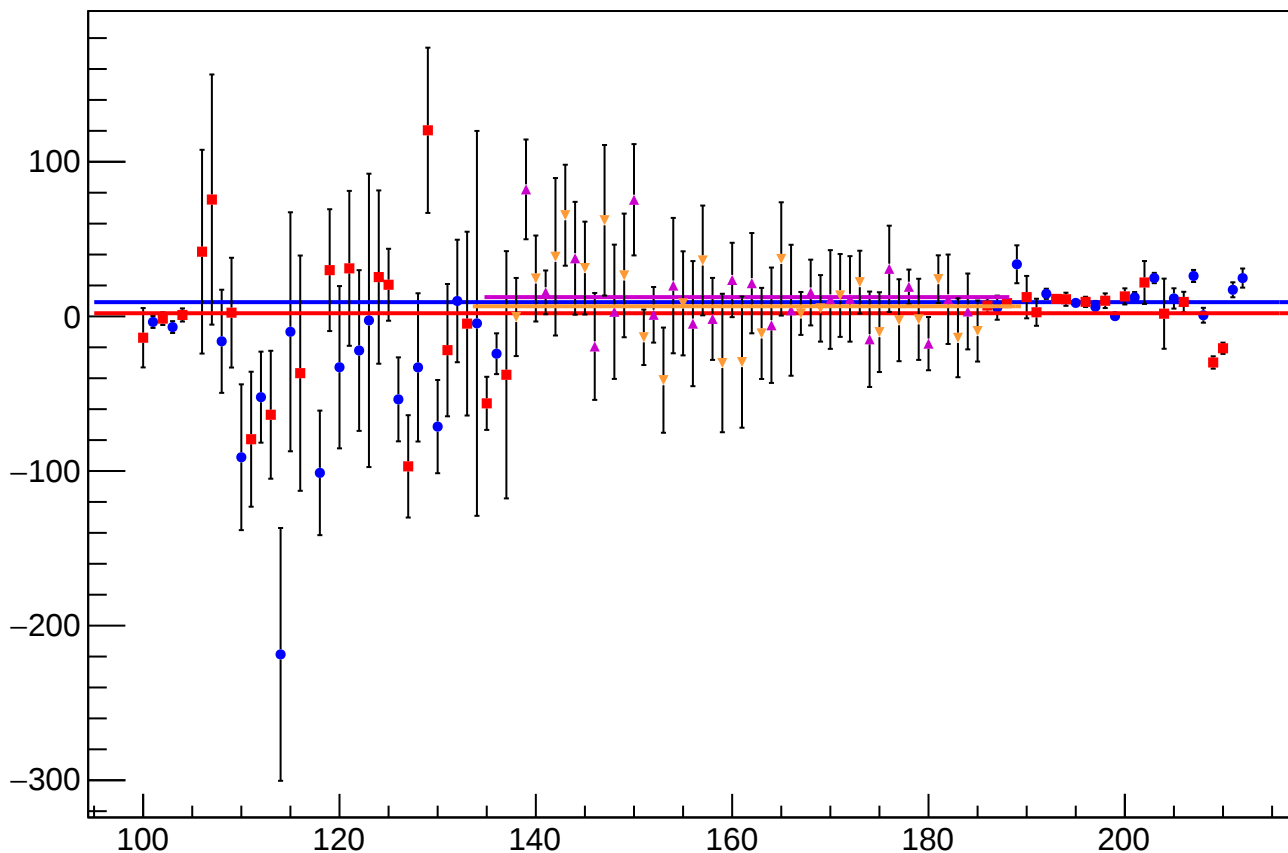
Right: 2906.050 $\pm$ 0.386 χ^2/NDF : 6550137.6/62

In: 2590.066 $\pm$ 0.351 χ^2/NDF : 9377340.5/52

Out: 2625.062 $\pm$ 0.348 χ^2/NDF : 9927805.4/57

All: 2607.743 $\pm$ 0.247 χ^2/NDF : 19310162.0/100

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 9.212 $\pm$ 1.047 χ^2 /NDF: 144.0/29

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

Right Out: 2.046 $\pm$ 1.109 χ^2 /NDF: 174.9/32

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

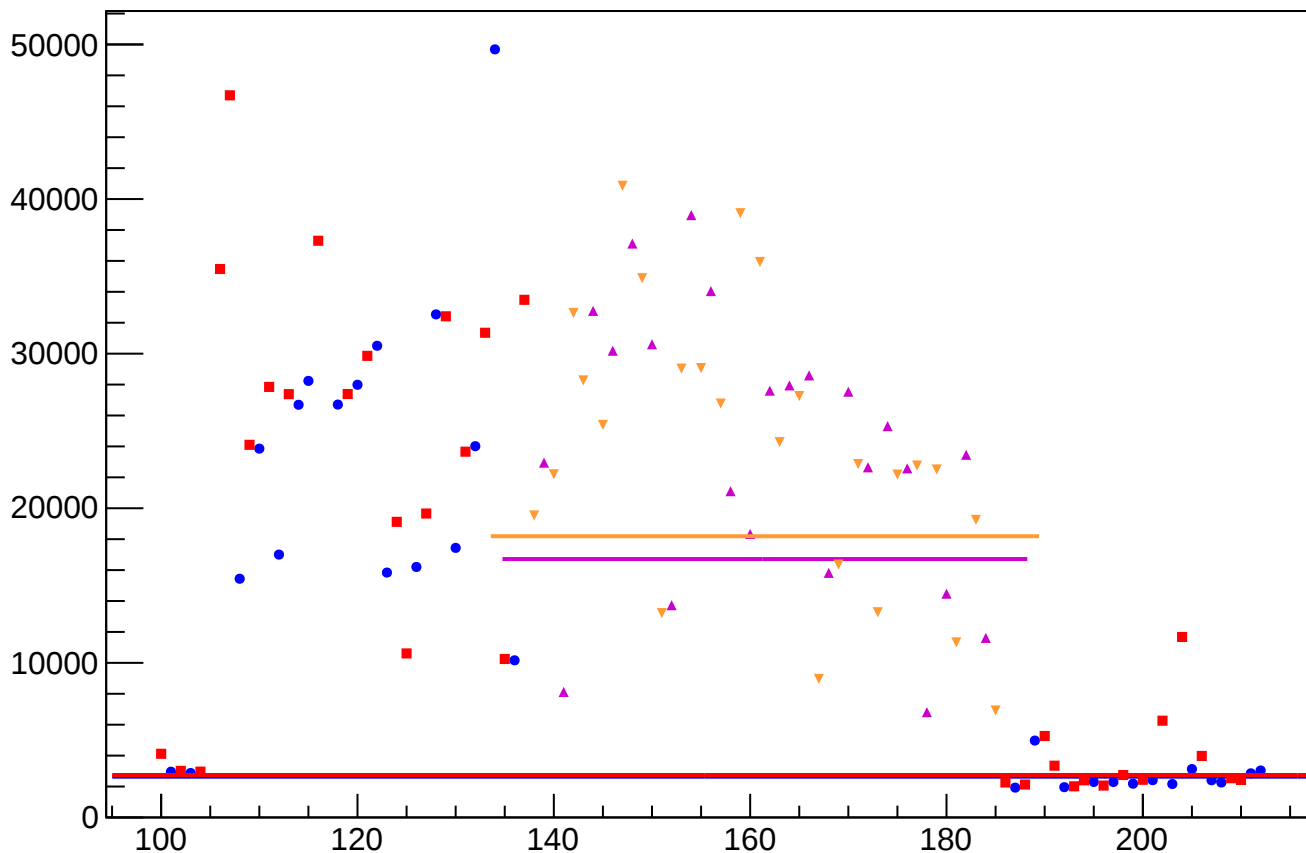
Right: 5.834 $\pm$ 0.761 χ^2 /NDF: 341.0/62

In: 9.347 $\pm$ 1.025 χ^2 /NDF:159.8/52

Out: 2.252 $\pm$ 1.084 χ^2 /NDF:192.4/57

All: 5.995 $\pm$ 0.745 χ^2 /NDF: 374.8/110

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2639.087+/-0.741 χ^2/NDF : 7010836.1/29

Left Out: 18190.387+/-3.590 χ^2/NDF : 5261328.5/24

Right Out: 2746.649+/-0.784 χ^2/NDF : 9079680.7/32

Left In: 16713.653+/-3.553 χ^2/NDF : 6194178.8/22

Left: 17444.397+/-2.526 χ^2/NDF : 11540970.2/47

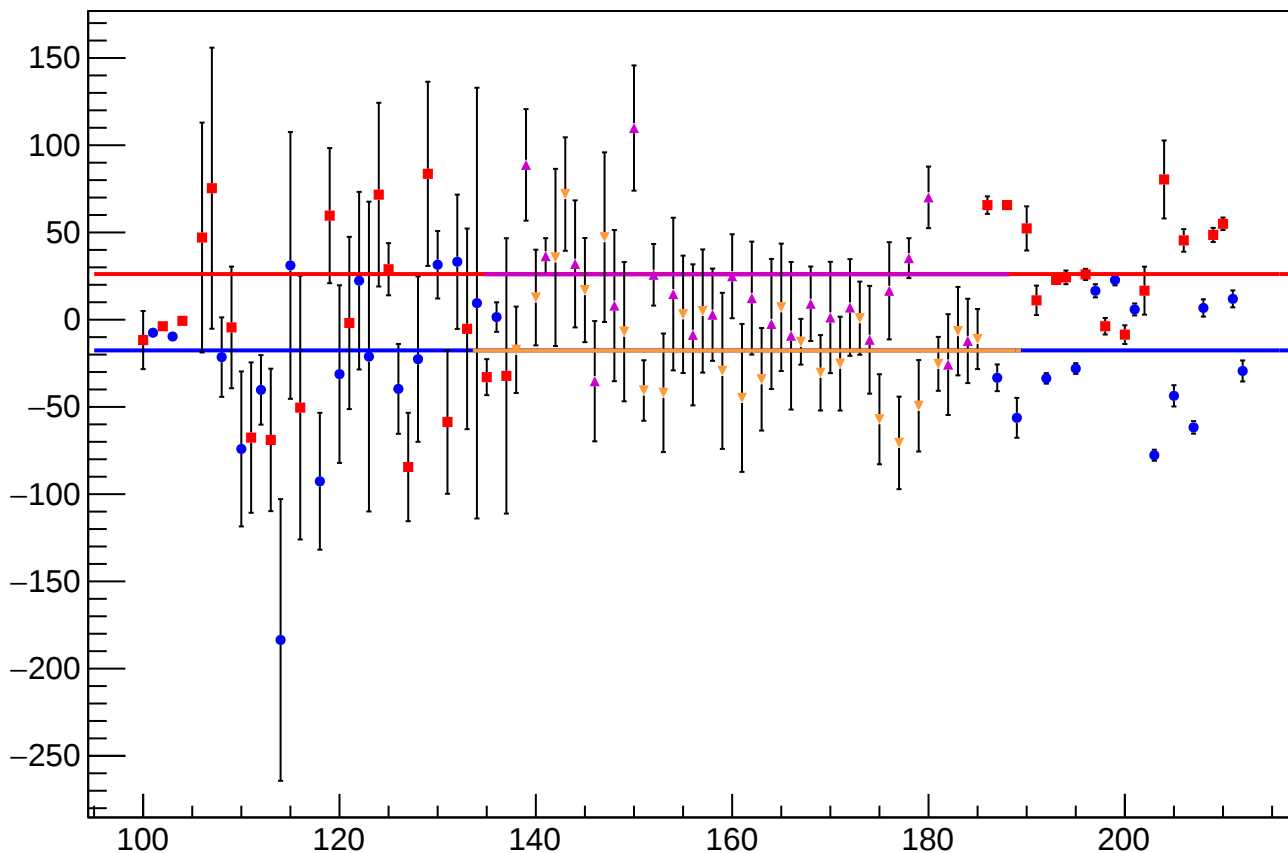
Right: 2689.790+/-0.538 χ^2/NDF : 16100461.0/62

In: 3224.957+/-0.725 χ^2/NDF : 28240407.9/52

Out: 3449.948+/-0.766 χ^2/NDF : 32001591.6/57

All: 3331.243+/-0.527 χ^2/NDF : 60287496.8/100

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -17.605 $\pm$ 0.939 χ^2/NDF : 1005.0/29

Left Out: -17.717 $\pm$ 4.974 χ^2/NDF :27.2/24

Right Out: 26.154 $\pm$ 0.994 χ^2/NDF : 749.4/32

Left In: 25.991 $\pm$ 4.789 χ^2/NDF :32.6/22

Left: 4.967 $\pm$ 3.450 χ^2/NDF : 99.8/47

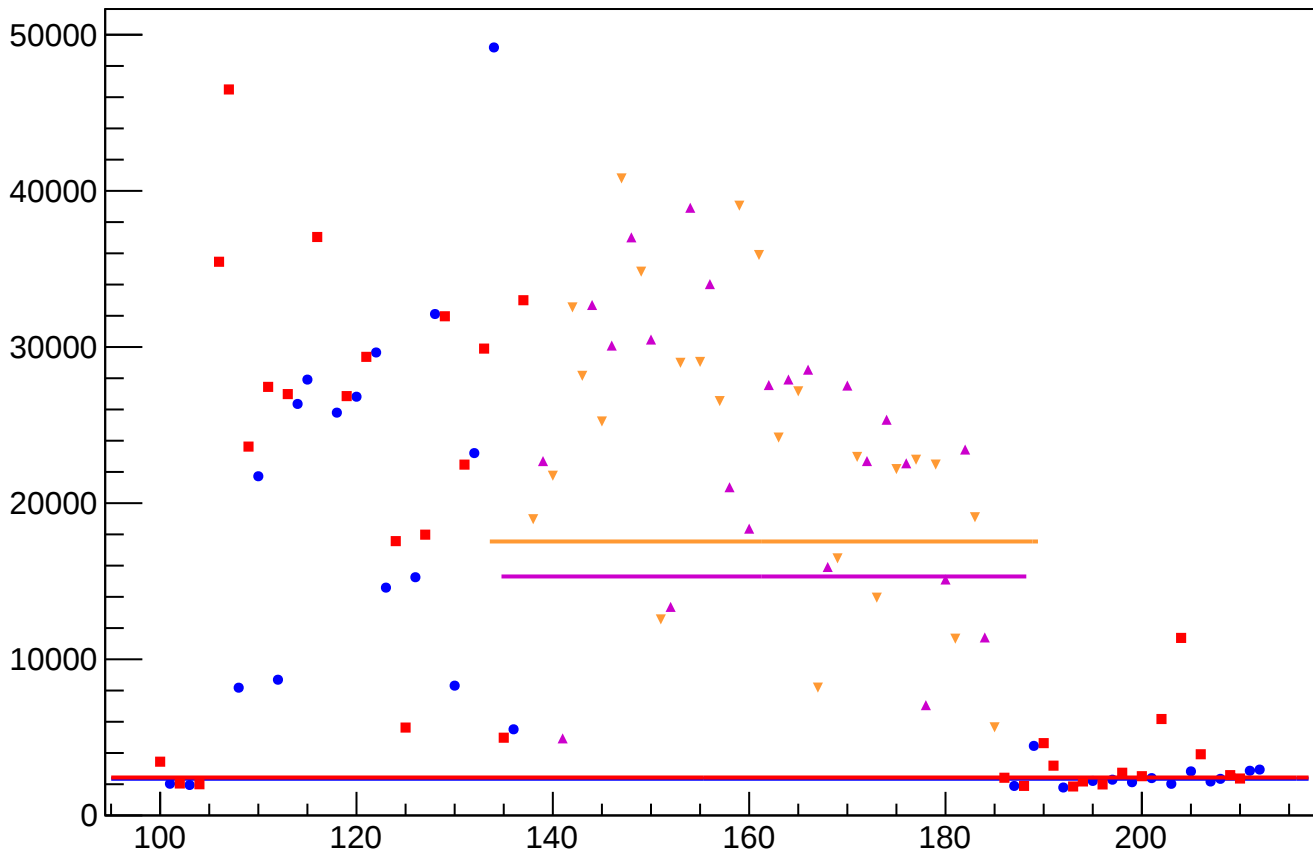
Right: 3.025 $\pm$ 0.683 χ^2/NDF : 2778.3/62

In: -15.991 $\pm$ 0.921 χ^2/NDF :1117.5/52

Out: 24.468 $\pm$ 0.975 χ^2/NDF :851.4/57

All: 3.098 $\pm$ 0.670 χ^2/NDF : 2878.4/110

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2350.084 ± 0.664 $\chi^2/\text{NDF}: 5856288.2/29$

Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$

Right Out: 2431.321 ± 0.703 $\chi^2/\text{NDF}: 8750632.4/32$

Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

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

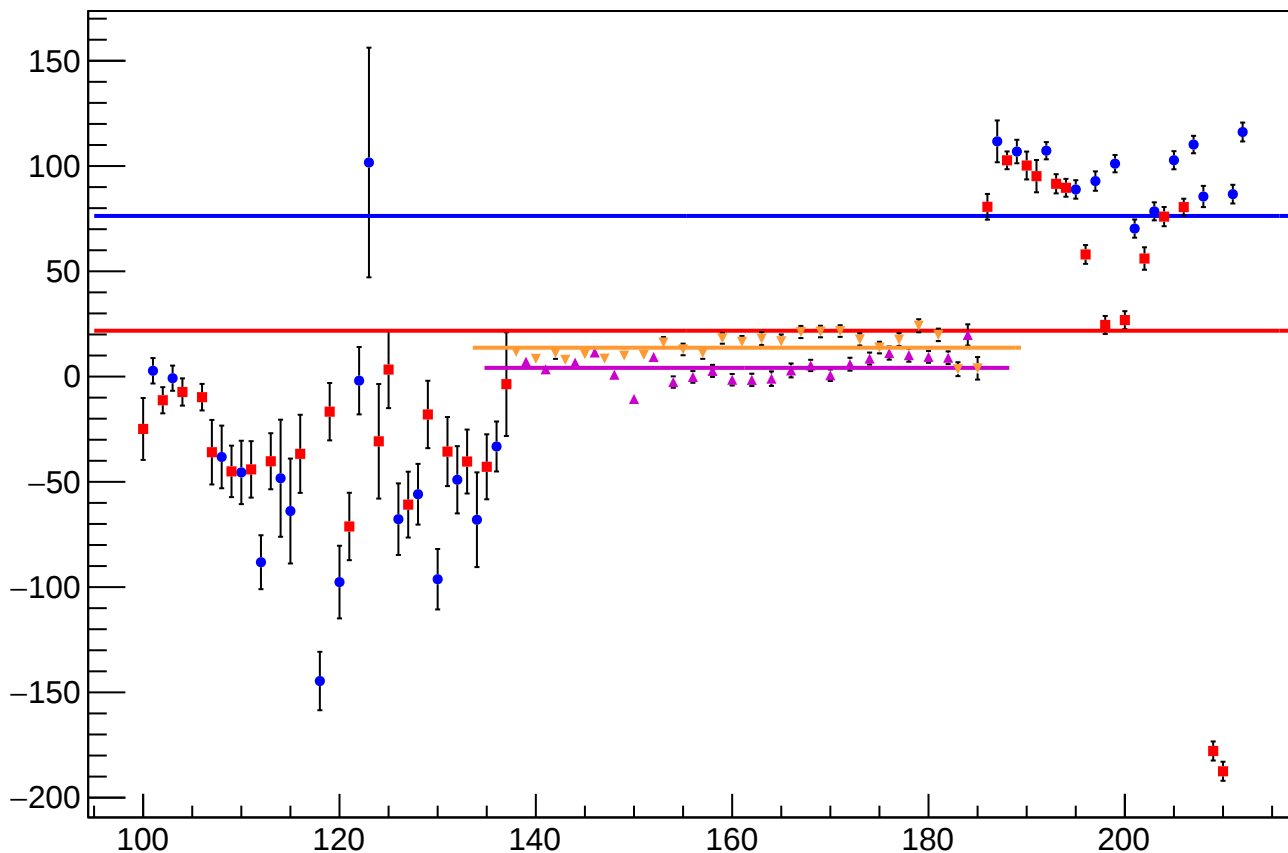
Right: 2388.383 ± 0.483 $\chi^2/\text{NDF}: 14613977.7/62$

In: 2829.748 ± 0.652 $\chi^2/\text{NDF}: 27672531.1/52$

Out: 3011.992 ± 0.689 $\chi^2/\text{NDF}: 32410395.4/57$

All: 2915.733 ± 0.474 $\chi^2/\text{NDF}: 60119836.7/100$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 76.300+/-1.168 χ^2/NDF : 1875.7/29

Left Out: 13.710+/-0.535 χ^2/NDF : 89.9/24

Right Out: 21.778+/-1.139 χ^2/NDF : 6035.2/32

Left In: 4.141+/-0.555 χ^2/NDF : 111.7/22

Left: 9.097+/-0.385 χ^2/NDF : 355.6/47

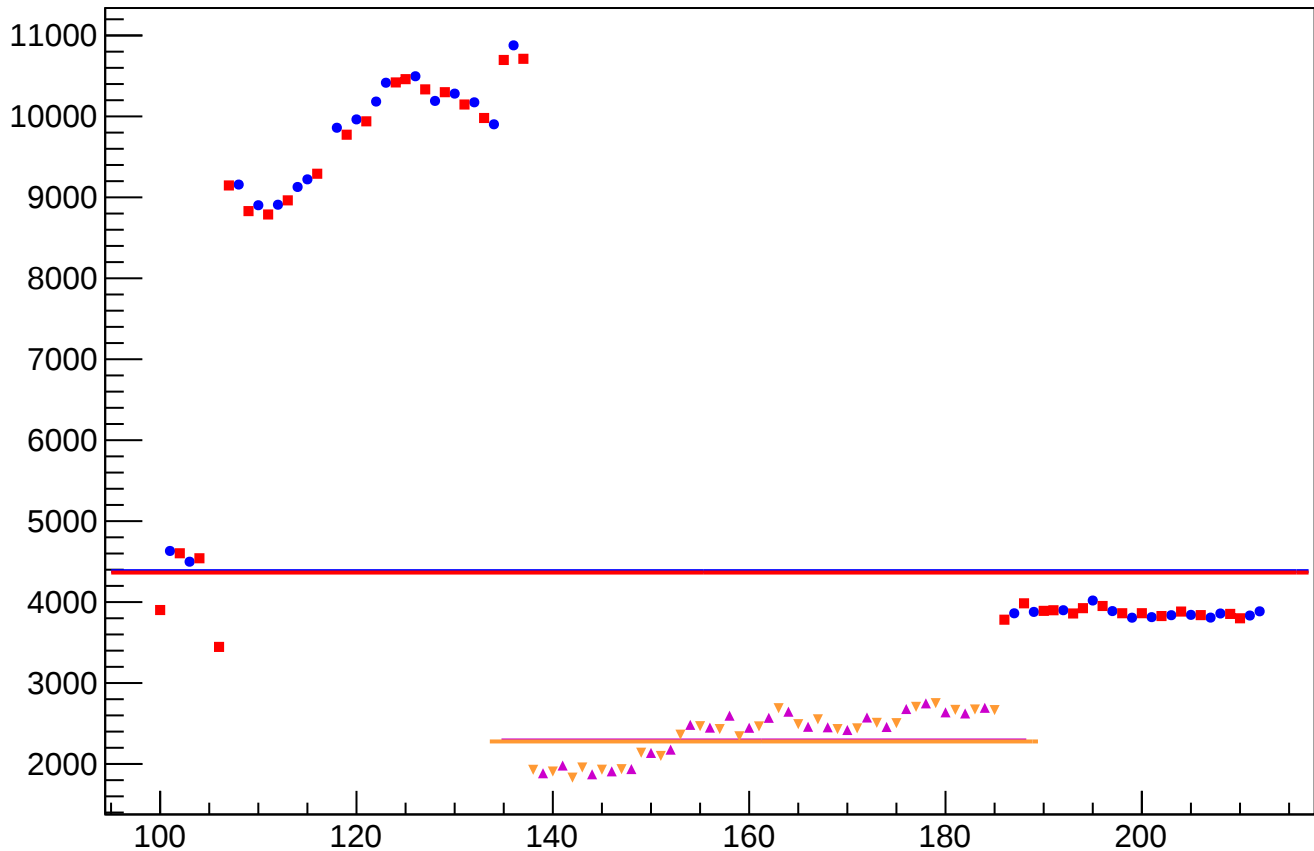
Right: 48.356+/-0.816 χ^2/NDF : 9027.4/62

In: 17.421+/-0.501 χ^2/NDF : 5100.8/52

Out: 15.169+/-0.484 χ^2/NDF : 6166.2/57

All: 16.257+/-0.348 χ^2/NDF : 11277.4/110

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4382.390+/-0.826 χ^2/NDF : 3824176.5/29

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

Right Out: 4364.637+/-0.806 χ^2/NDF : 3849064.3/32

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

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

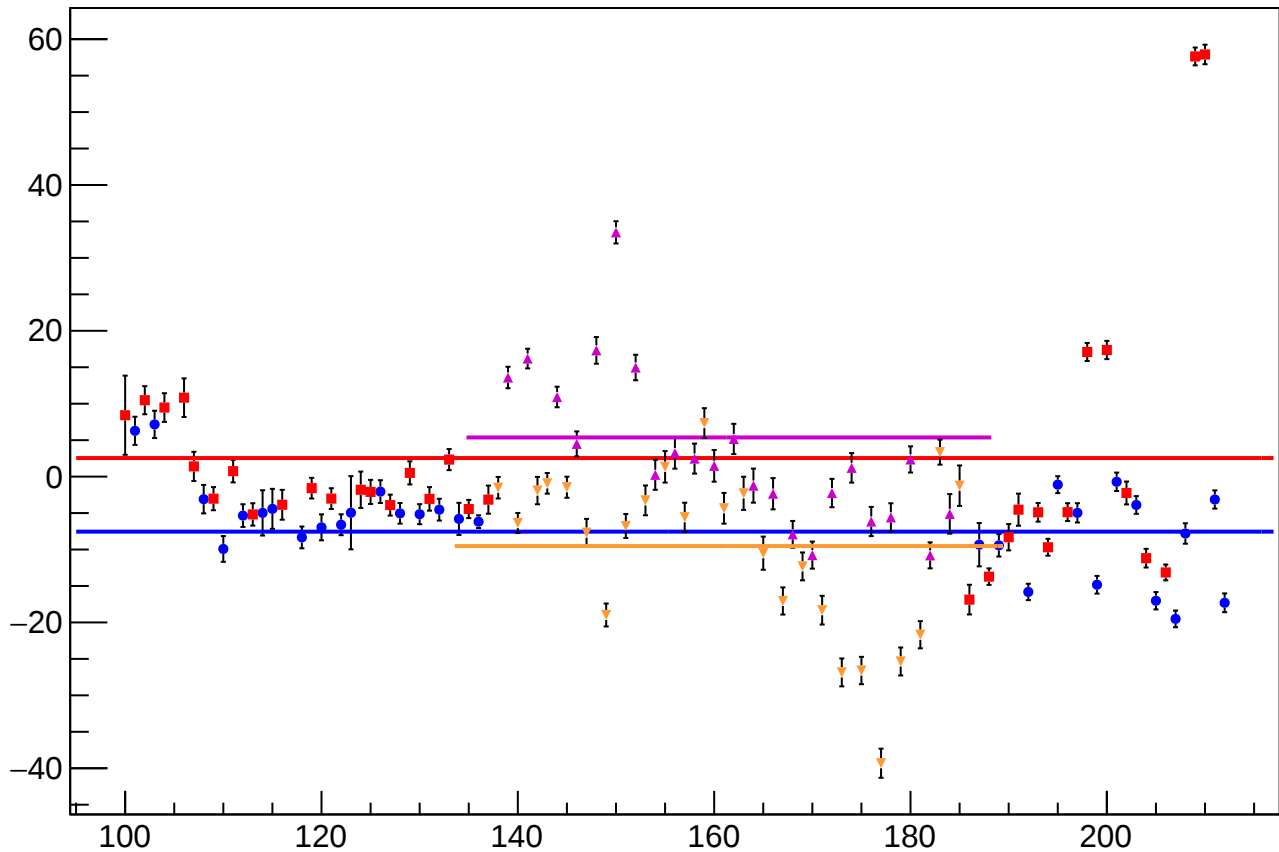
Right: 4373.291+/-0.577 χ^2/NDF : 7673477.5/62

In: 2675.470+/-0.354 χ^2/NDF : 9647723.2/52

Out: 2655.404+/-0.343 χ^2/NDF : 9951751.1/57

All: 2665.097+/-0.246 χ^2/NDF : 19601131.9/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -7.547 ± 0.264 $\chi^2/\text{NDF}: 559.3/29$

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

Right Out: 2.546 ± 0.262 $\chi^2/\text{NDF}: 5068.1/32$

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

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

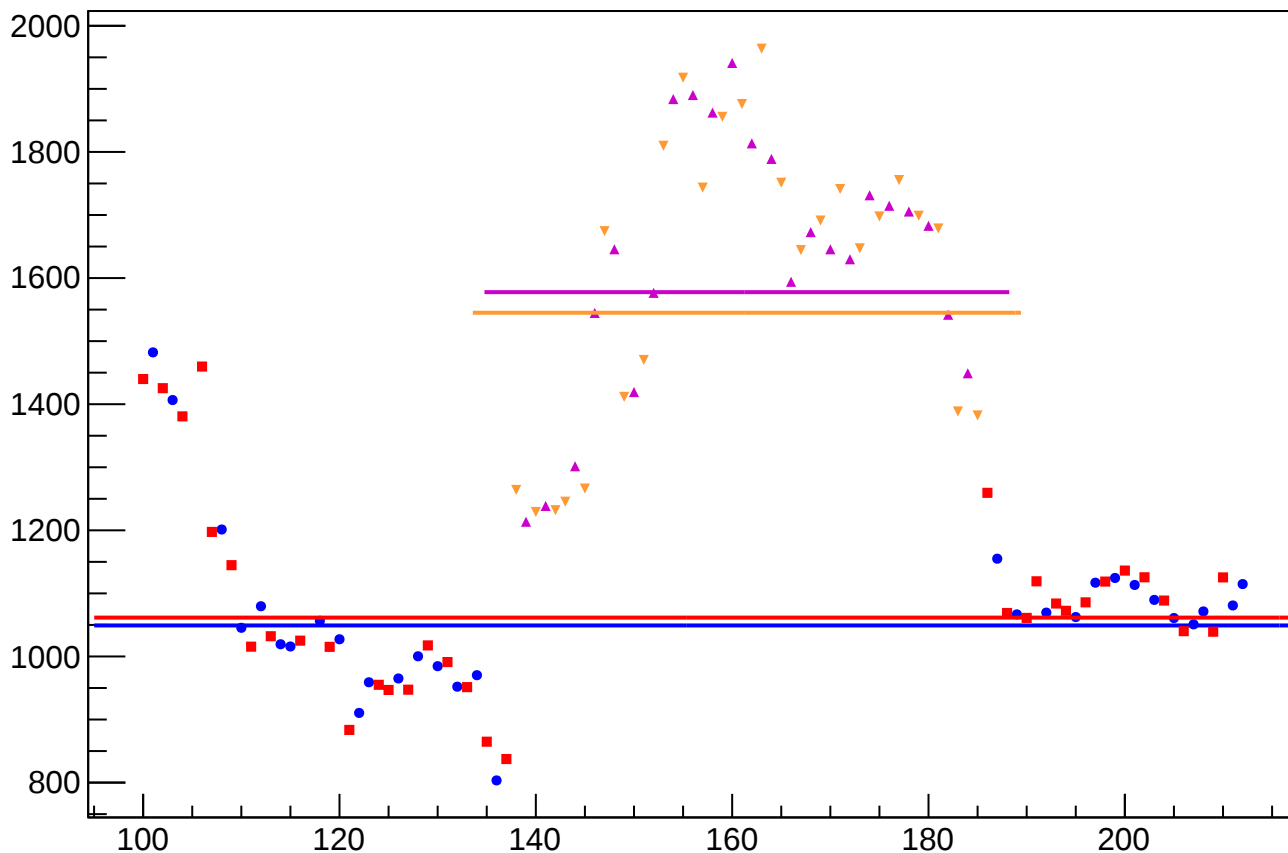
Right: -2.461 ± 0.186 $\chi^2/\text{NDF}: 6362.5/62$

In: -3.379 ± 0.217 $\chi^2/\text{NDF}: 2200.3/52$

Out: -1.566 ± 0.213 $\chi^2/\text{NDF}: 6674.1/57$

All: -2.453 ± 0.152 $\chi^2/\text{NDF}: 8909.9/110$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1049.175 $\pm$ 0.187 χ^2 /NDF: 418162.3/29

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

Right Out: 1061.603 $\pm$ 0.185 χ^2 /NDF: 392861.4/32

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

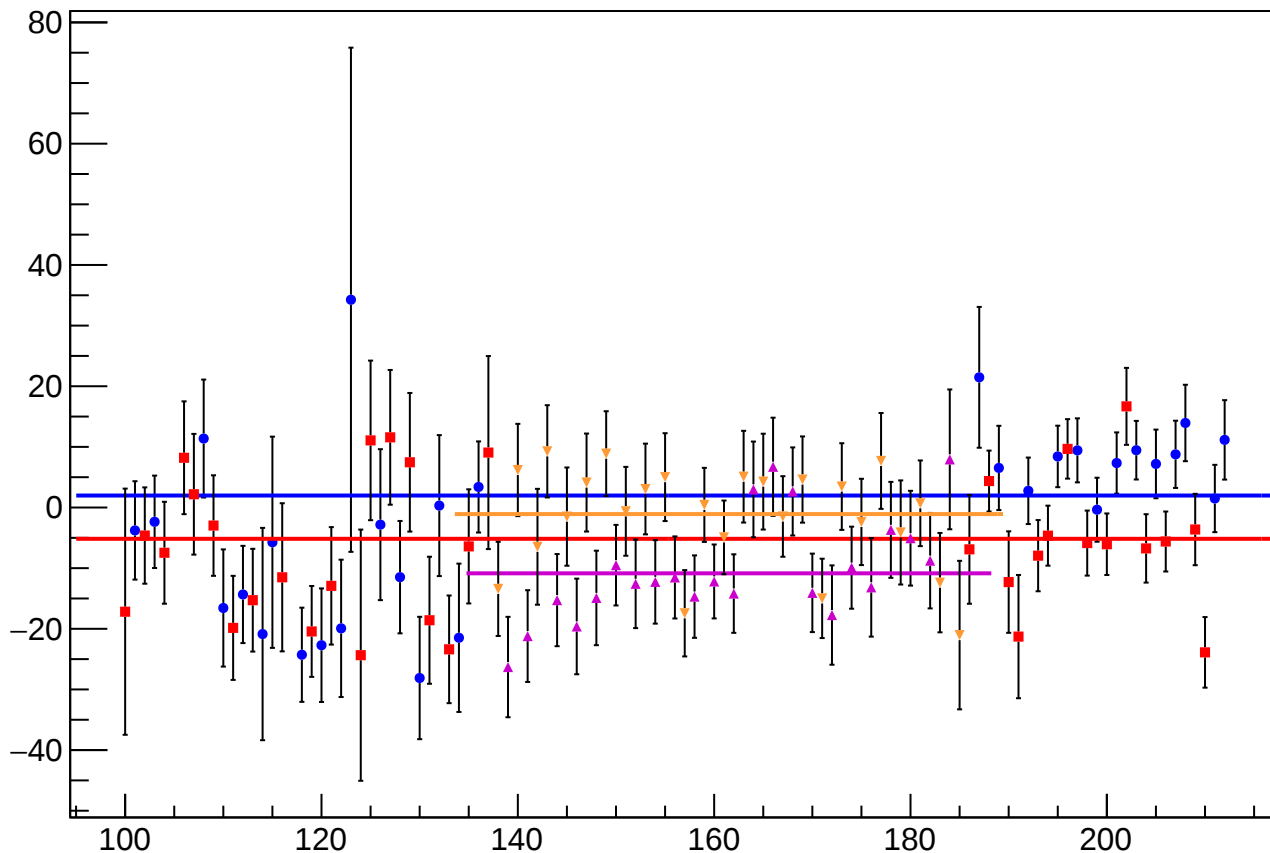
Right: 1055.437 $\pm$ 0.132 χ^2 /NDF: 813252.6/62

In: 1219.697 $\pm$ 0.154 χ^2 /NDF:3624500.9/52

Out: 1226.315 $\pm$ 0.151 χ^2 /NDF:3551724.4/57

All: 1223.076 $\pm$ 0.108 χ^2 /NDF: 7177170.8/11

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 1.978 $\pm$ 1.324 χ^2/NDF : 67.6/29

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

Right Out: -5.159 $\pm$ 1.282 χ^2/NDF : 63.7/32

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

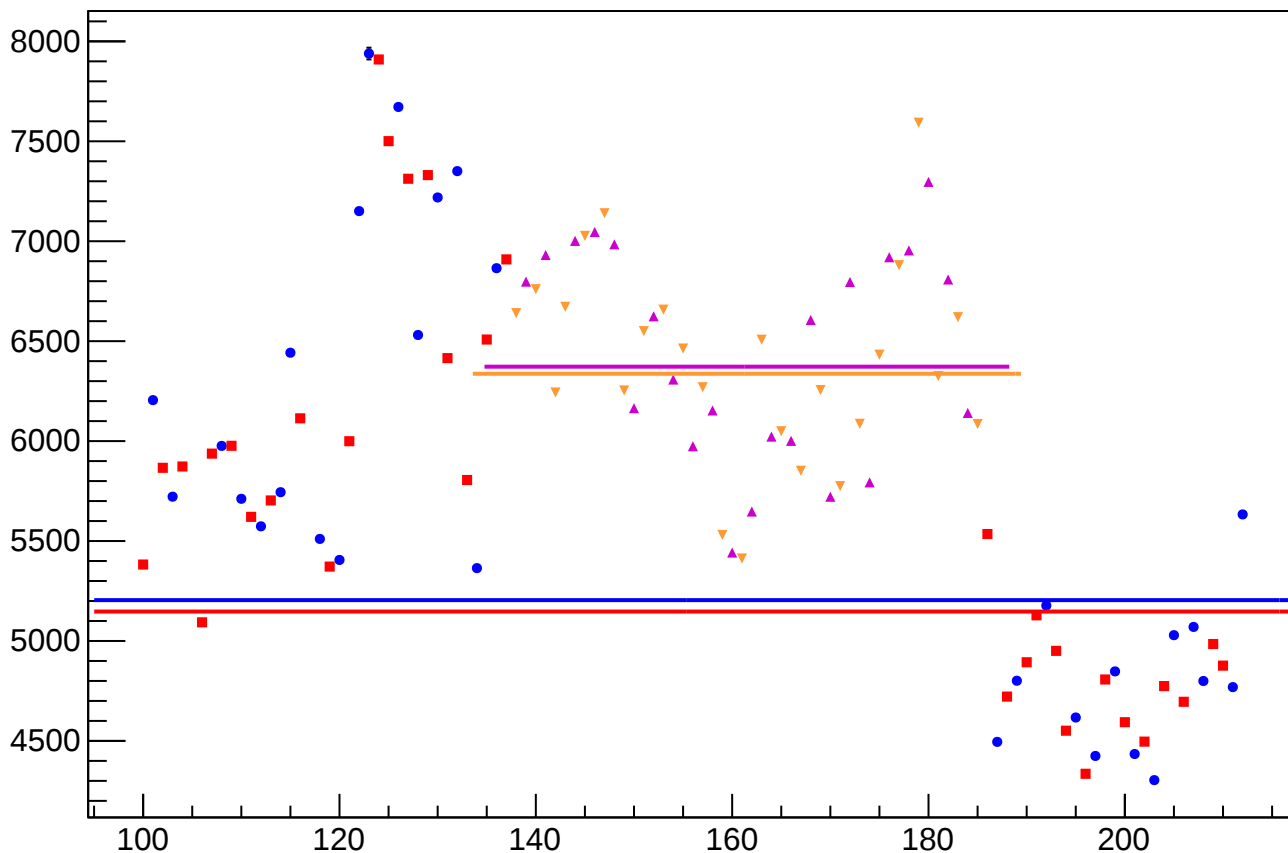
Right: -1.706 $\pm$ 0.921 χ^2/NDF : 146.3/62

In: -3.467 $\pm$ 1.004 χ^2/NDF : 131.8/52

Out: -3.422 $\pm$ 0.971 χ^2/NDF : 95.5/57

All: -3.444 $\pm$ 0.698 χ^2/NDF : 227.4/110

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5204.305 $\pm$ 0.936 χ^2/NDF : 753311.3/29

Left Out: 6336.876 $\pm$ 1.052 χ^2/NDF : 222912.5/24

Right Out: 5147.141 $\pm$ 0.906 χ^2/NDF : 654094.0/32

Left In: 6372.349 $\pm$ 1.090 χ^2/NDF : 247257.0/22

Left: 6353.974 $\pm$ 0.757 χ^2/NDF : 470718.0/47

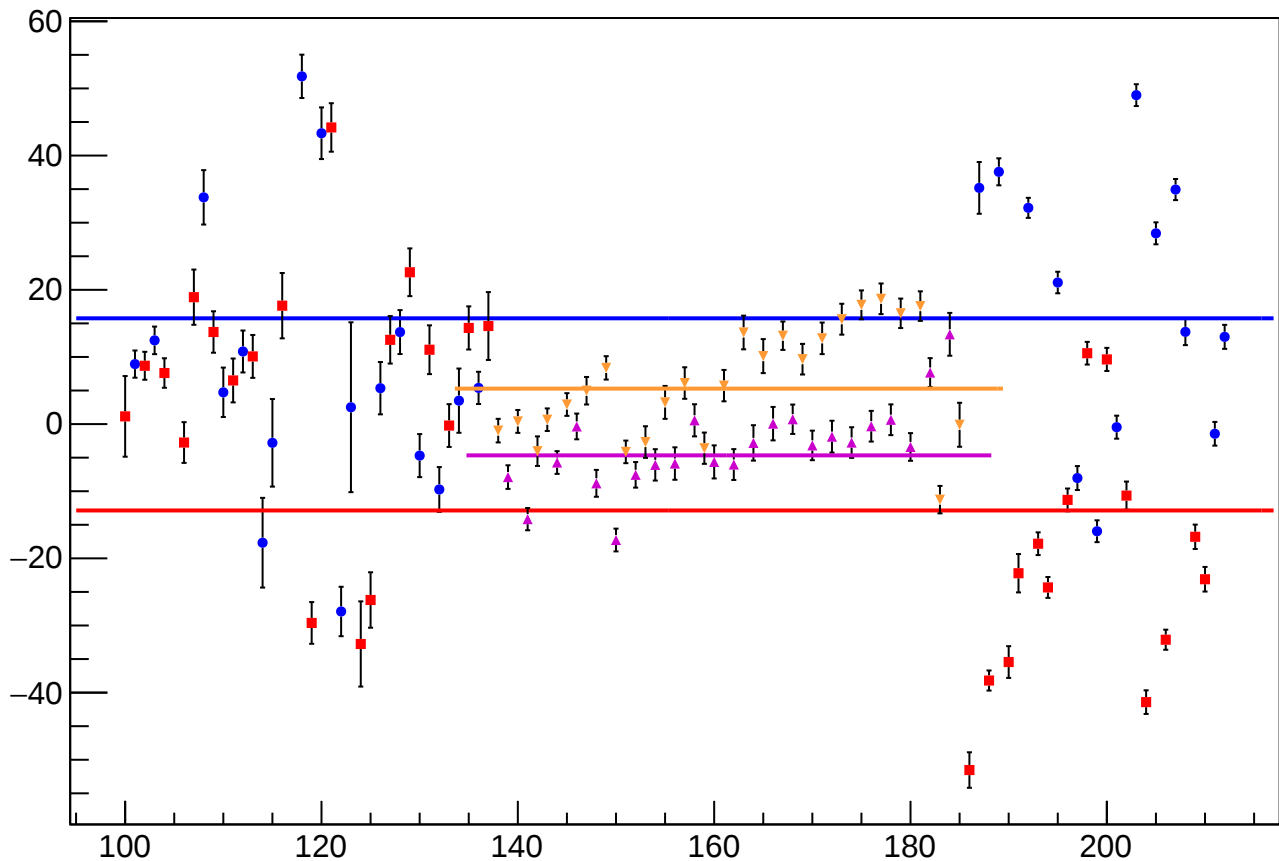
Right: 5174.798 $\pm$ 0.651 χ^2/NDF : 1409330.6/62

In: 5700.011 $\pm$ 0.710 χ^2/NDF : 1661434.7/52

Out: 5654.139 $\pm$ 0.686 χ^2/NDF : 1611558.0/57

All: 5676.297 $\pm$ 0.494 χ^2/NDF : 3275149.7/11

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 15.756 ± 0.415 χ^2/NDF : 2175.8/29

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

Right Out: -12.866 ± 0.409 χ^2/NDF : 2574.8/32

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

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

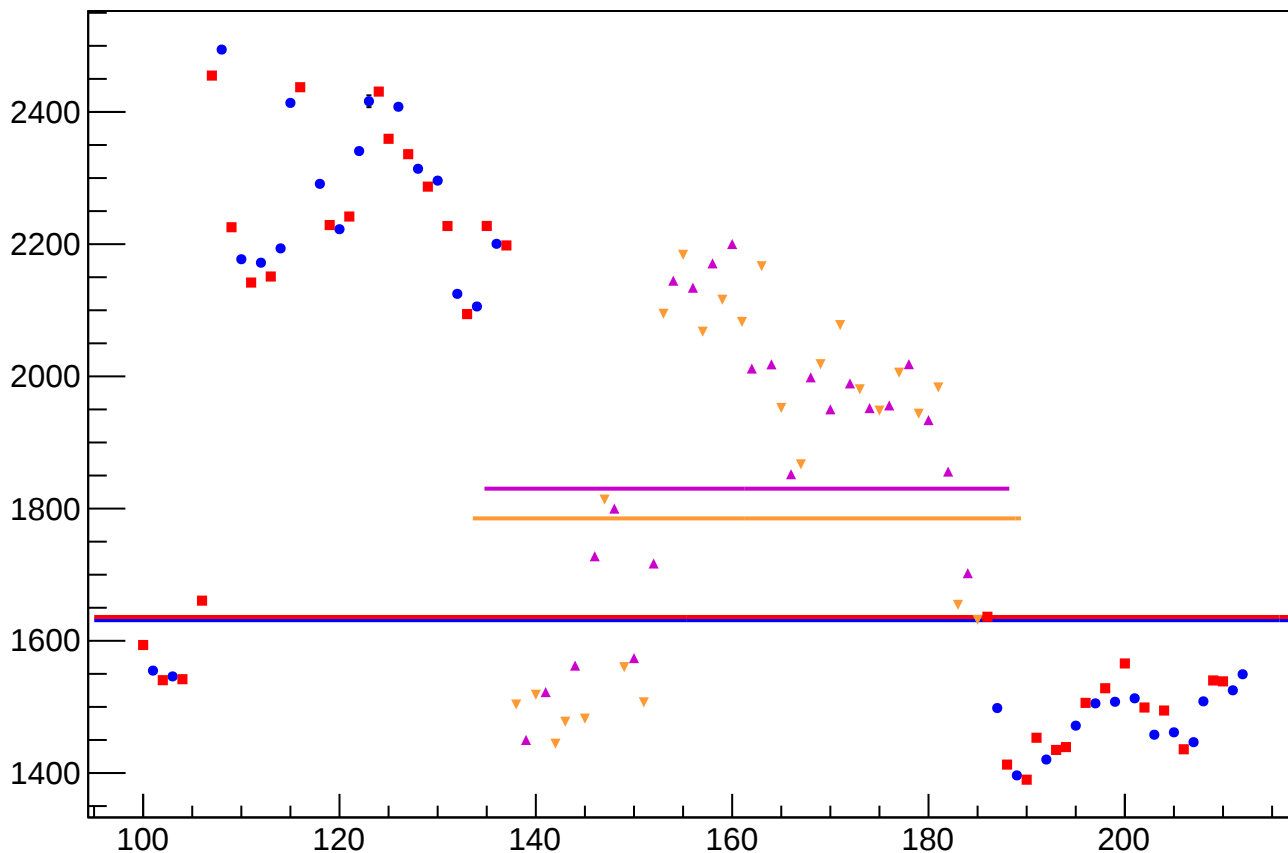
Right: 1.213 ± 0.291 χ^2/NDF : 7164.9/62

In: 6.217 ± 0.303 χ^2/NDF : 3501.7/52

Out: -4.057 ± 0.293 χ^2/NDF : 3898.8/57

All: 0.908 ± 0.211 χ^2/NDF : 7994.4/110

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1631.188+/-0.294 χ^2/NDF : 1096214.3/29

Left Out: 1785.179+/-0.297 χ^2/NDF : 750628.1/24

Right Out: 1636.046+/-0.289 χ^2/NDF : 1094861.3/32

Left In: 1830.160+/-0.313 χ^2/NDF : 508391.9/22

Left: 1806.491+/-0.216 χ^2/NDF : 1269853.4/47

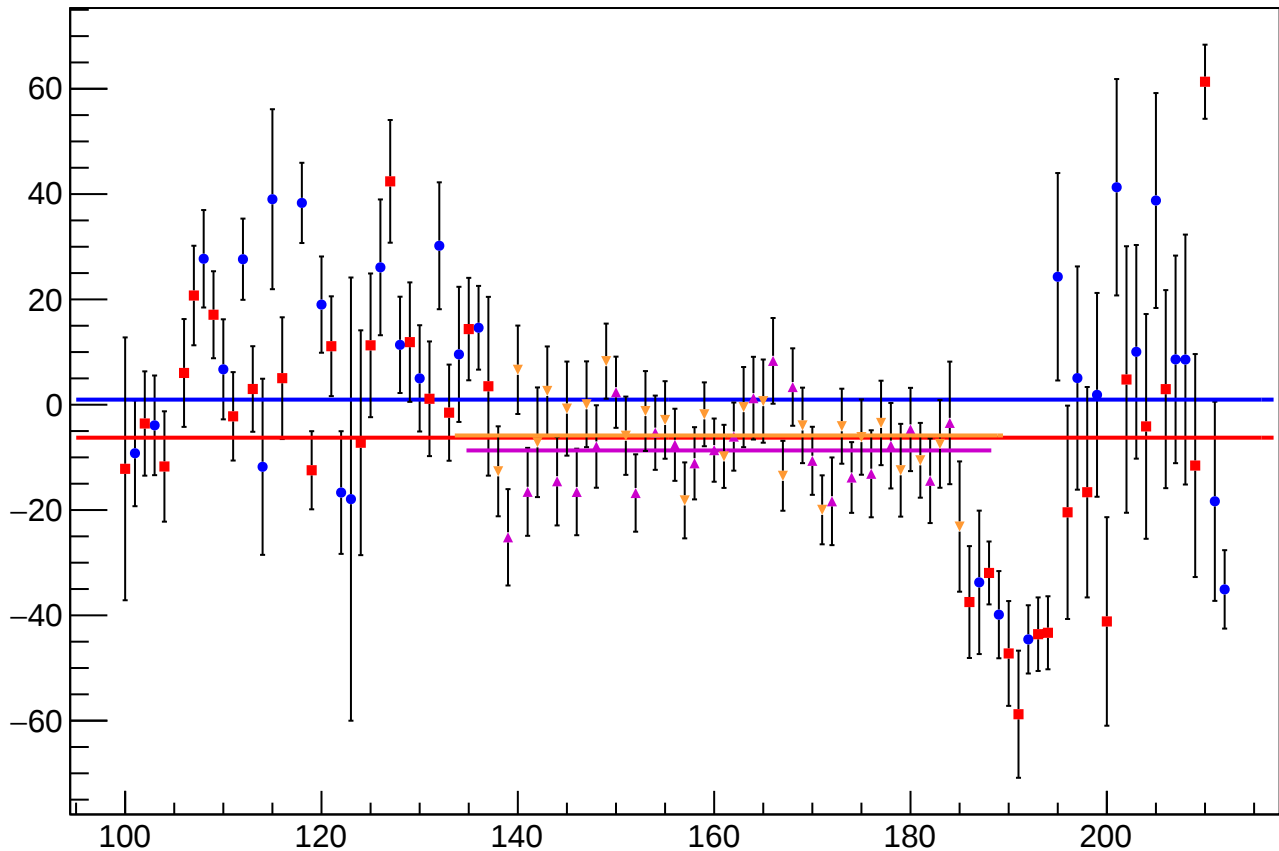
Right: 1633.656+/-0.206 χ^2/NDF : 2191214.7/62

In: 1724.166+/-0.214 χ^2/NDF : 1819209.4/52

Out: 1708.428+/-0.207 χ^2/NDF : 1974843.4/57

All: 1716.034+/-0.149 χ^2/NDF : 3796840.1/111

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 0.969 ± 2.020 χ^2/NDF : 186.3/29

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

Right Out: -6.259 ± 1.793 χ^2/NDF : 268.4/32

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

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

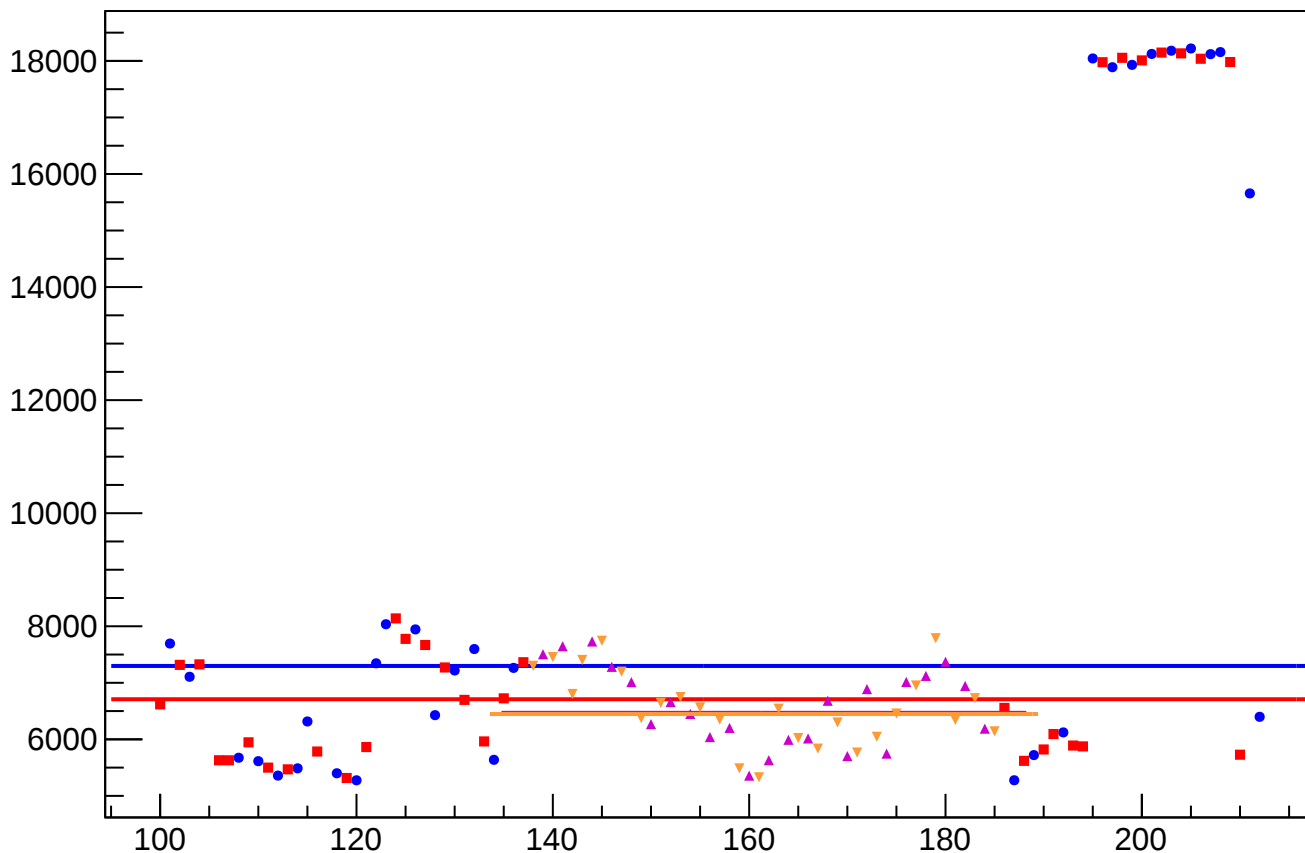
Right: -3.075 ± 1.341 χ^2/NDF : 461.9/62

In: -5.048 ± 1.240 χ^2/NDF : 222.4/52

Out: -6.015 ± 1.159 χ^2/NDF : 291.8/57

All: -5.564 ± 0.847 χ^2/NDF : 514.6/110

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7298.208+/-1.429 χ^2/NDF : 5590838.0/29

Left Out: 6447.712+/-1.074 χ^2/NDF : 371671.1/24

Right Out: 6709.246+/-1.268 χ^2/NDF : 4695630.3/32

Left In: 6468.902+/-1.111 χ^2/NDF : 383325.4/22

Left: 6457.948+/-0.772 χ^2/NDF : 755184.7/47

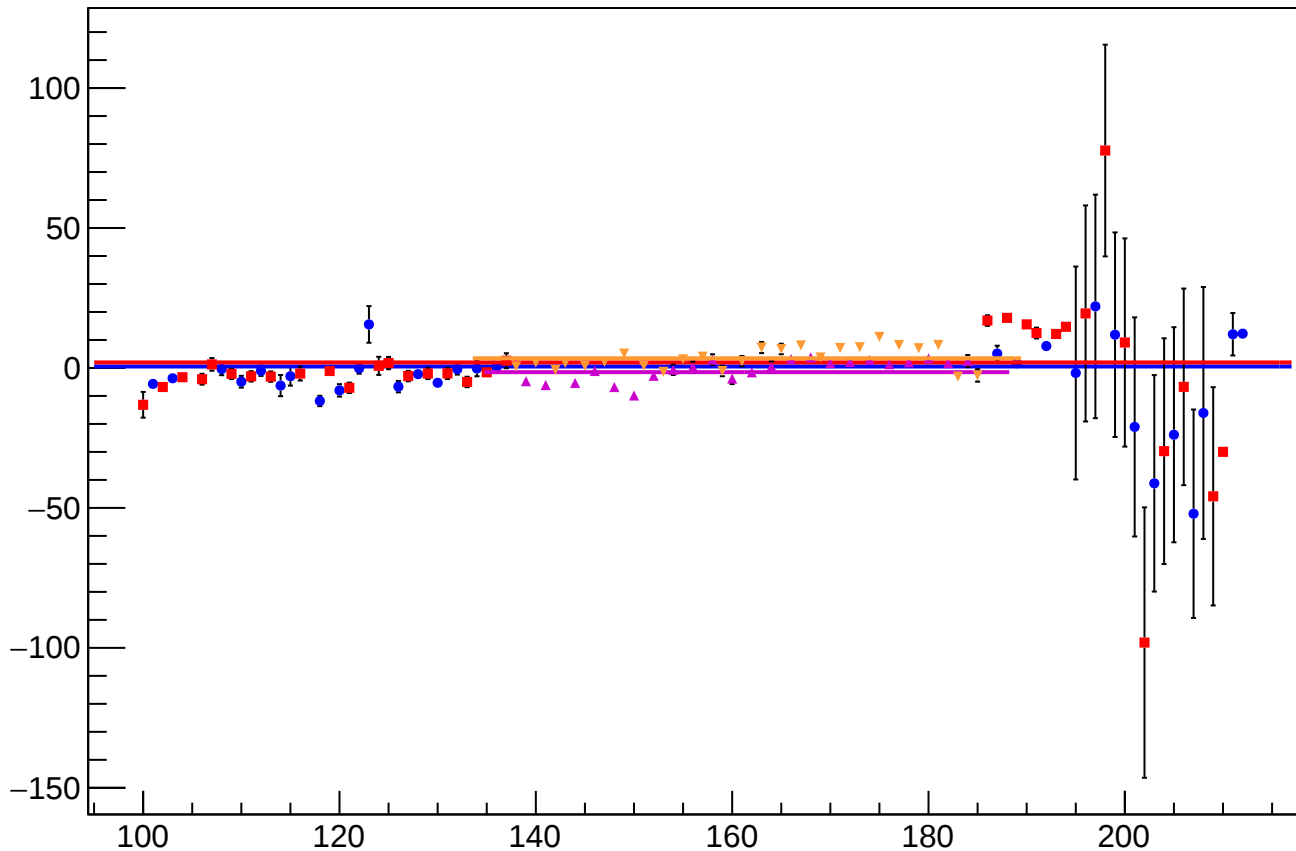
Right: 6968.655+/-0.948 χ^2/NDF : 10381561.9/62

In: 6781.269+/-0.877 χ^2/NDF : 6184199.1/52

Out: 6556.961+/-0.819 χ^2/NDF : 5092090.7/57

All: 6661.509+/-0.599 χ^2/NDF : 11311231.6/113

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 0.527 ± 0.383 χ^2/NDF : 289.9/29

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

Right Out: 1.979 ± 0.342 χ^2/NDF : 1308.4/32

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

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

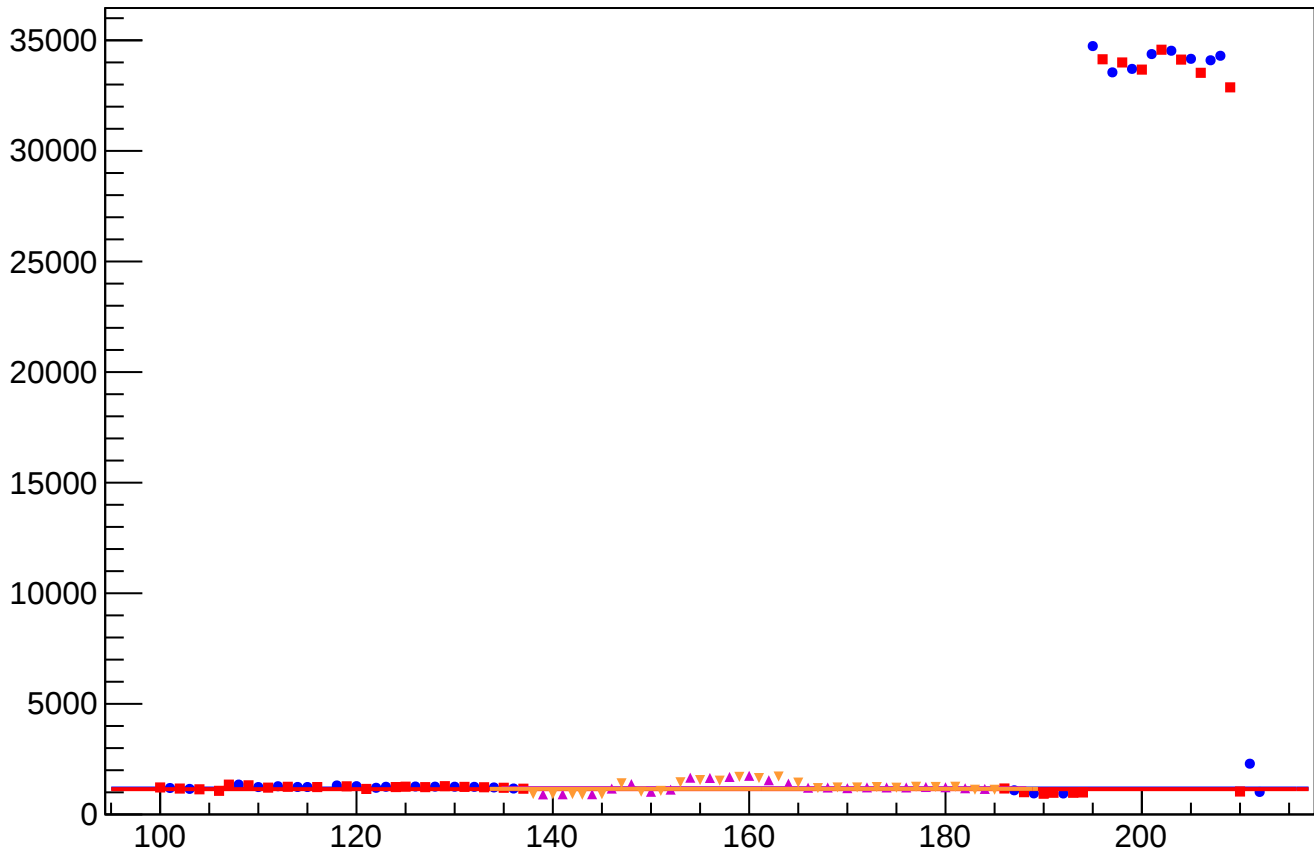
Right: 1.334 ± 0.255 χ^2/NDF : 1606.3/62

In: -0.761 ± 0.232 χ^2/NDF : 510.4/52

Out: 2.882 ± 0.215 χ^2/NDF : 1495.9/57

All: 1.195 ± 0.158 χ^2/NDF : 2139.2/110

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1172.558+/-0.271

χ^2/NDF : 11797678.3/29

Left: 1171.274+/-0.142

χ^2/NDF : 2609306.9/47

Left Out: 1158.894+/-0.195

χ^2/NDF : 1410423.6/24

Right: 1156.490+/-0.180

χ^2/NDF : 21882469.1/62

Right Out: 1143.654+/-0.242

χ^2/NDF : 10078456.6/32

In: 1180.431+/-0.164

χ^2/NDF : 12989442.2/52

Out: 1152.879+/-0.152

χ^2/NDF : 11491280.5/57

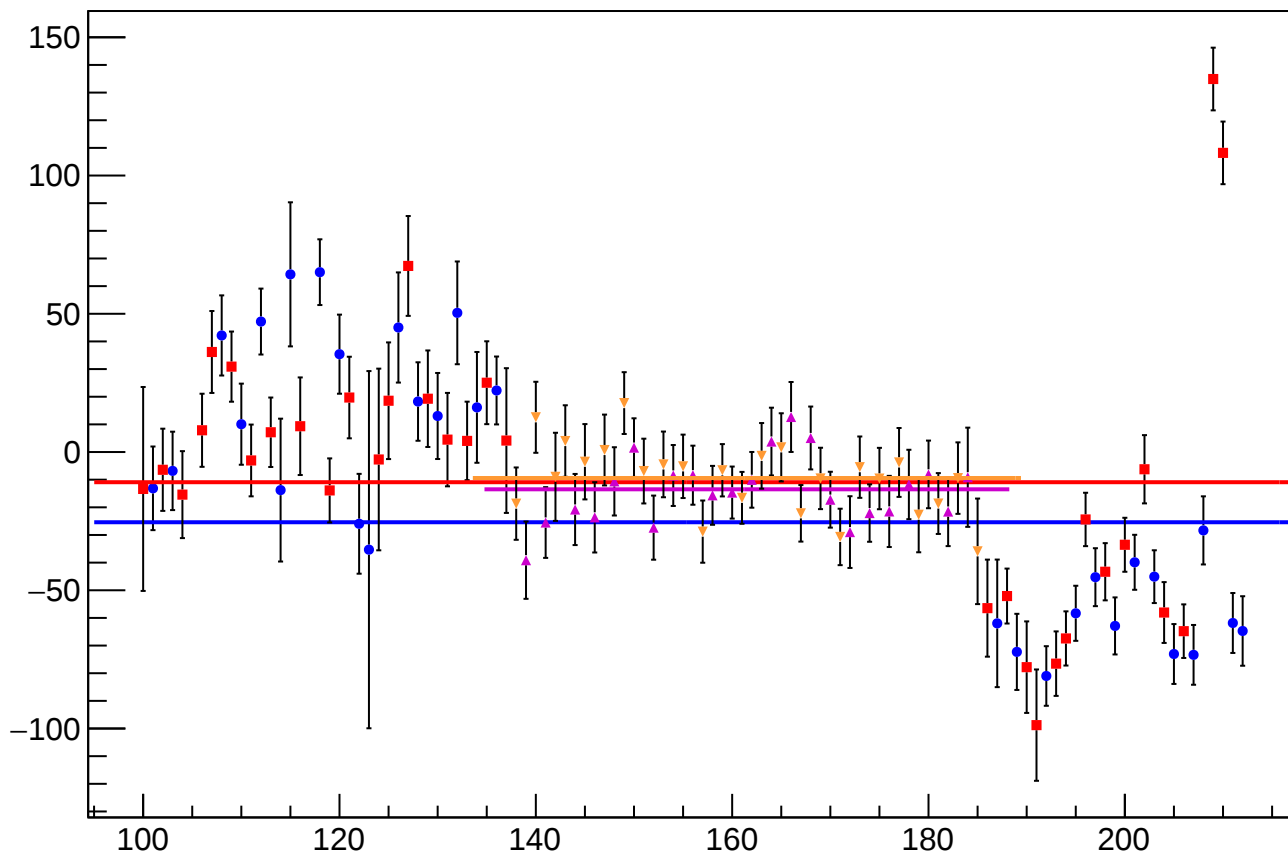
Left In: 1184.966+/-0.206

χ^2/NDF : 1190431.5/22

All: 1165.639+/-0.111

χ^2/NDF : 24495930.2/1

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -25.397 ± 2.414 χ^2/NDF : 354.1/29

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

Right Out: -10.917 ± 2.318 χ^2/NDF : 529.9/32

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

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

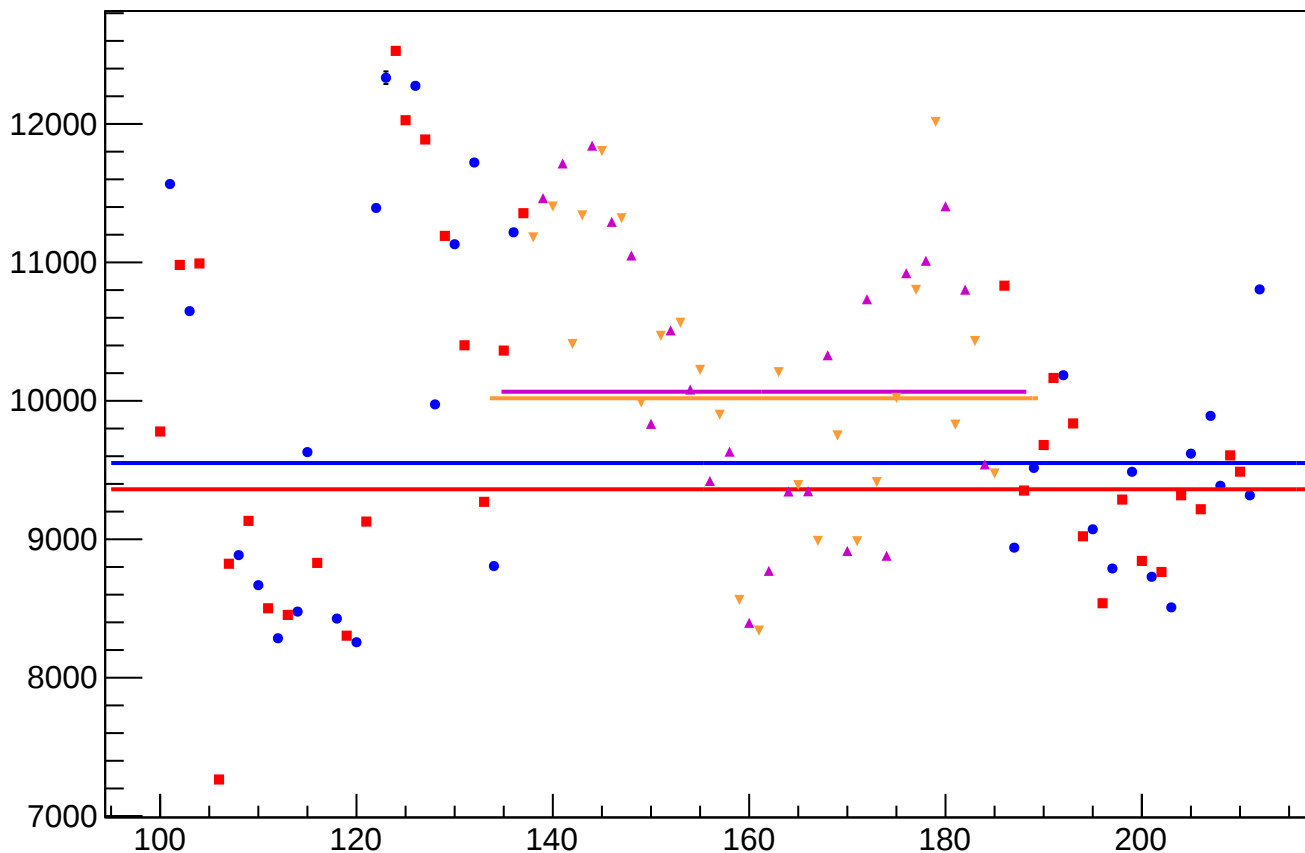
Right: -17.863 ± 1.672 χ^2/NDF : 902.8/62

In: -19.512 ± 1.717 χ^2/NDF : 387.7/52

Out: -10.170 ± 1.653 χ^2/NDF : 556.4/57

All: -14.664 ± 1.191 χ^2/NDF : 959.5/110

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9550.867 ± 1.707 χ^2/NDF : 354903.6/29

Left Out: 10018.563 ± 1.668 χ^2/NDF : 344534.6/24

Right Out: 9361.273 ± 1.639 χ^2/NDF : 327547.0/32

Left In: 10065.909 ± 1.727 χ^2/NDF : 357868.9/22

Left: 10041.404 ± 1.200 χ^2/NDF : 702792.3/47

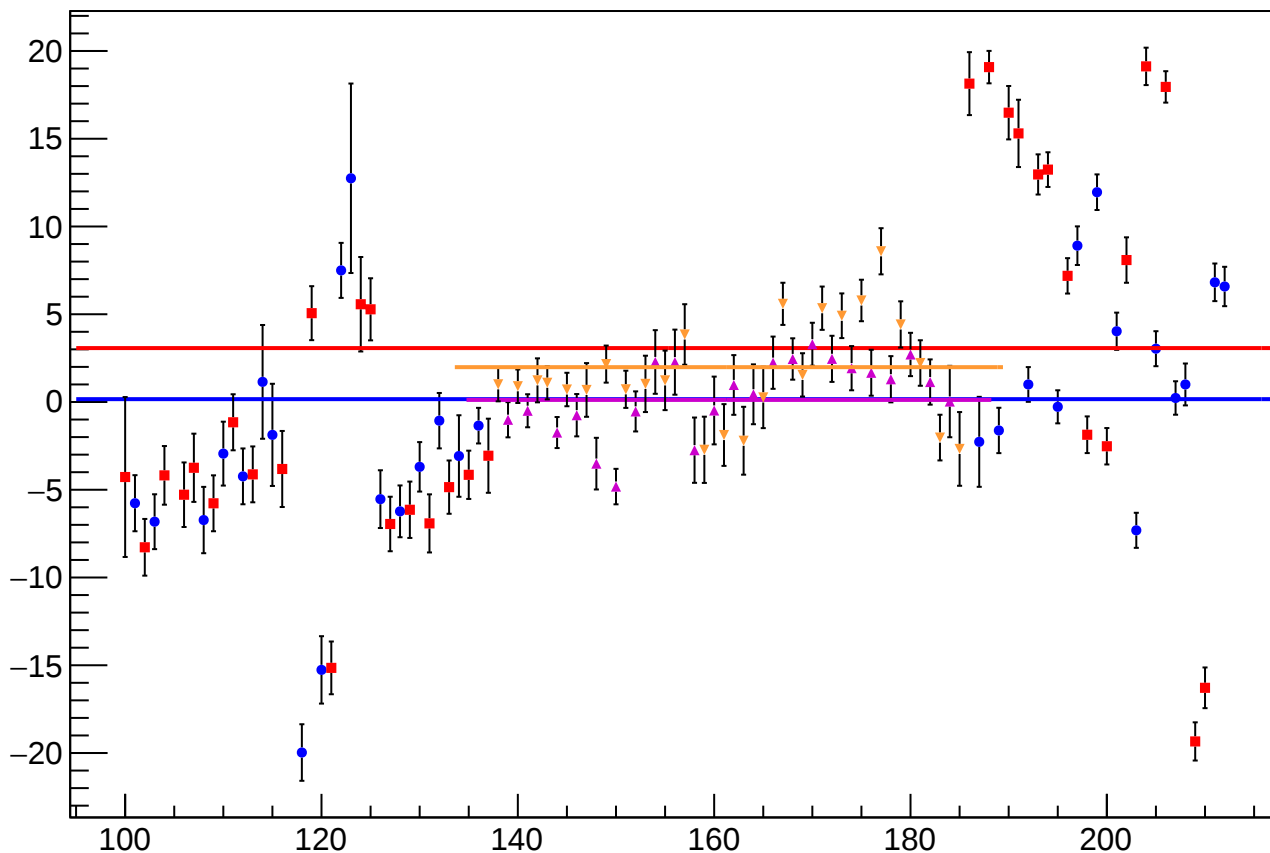
Right: 9452.229 ± 1.182 χ^2/NDF : 688869.9/62

In: 9805.314 ± 1.214 χ^2/NDF : 757756.3/52

Out: 9684.220 ± 1.169 χ^2/NDF : 751097.6/57

All: 9742.475 ± 0.842 χ^2/NDF : 1514016.3/11

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.242 χ^2 /NDF: 700.7/29

Left Out: 1.985 $\pm$ 0.255 χ^2 /NDF:101.2/24

Right Out: 3.072 $\pm$ 0.239 χ^2 /NDF: 2456.0/32

Left In: 0.120 $\pm$ 0.269 χ^2 /NDF:67.6/22

Left: 1.102 $\pm$ 0.185 χ^2 /NDF: 194.2/47

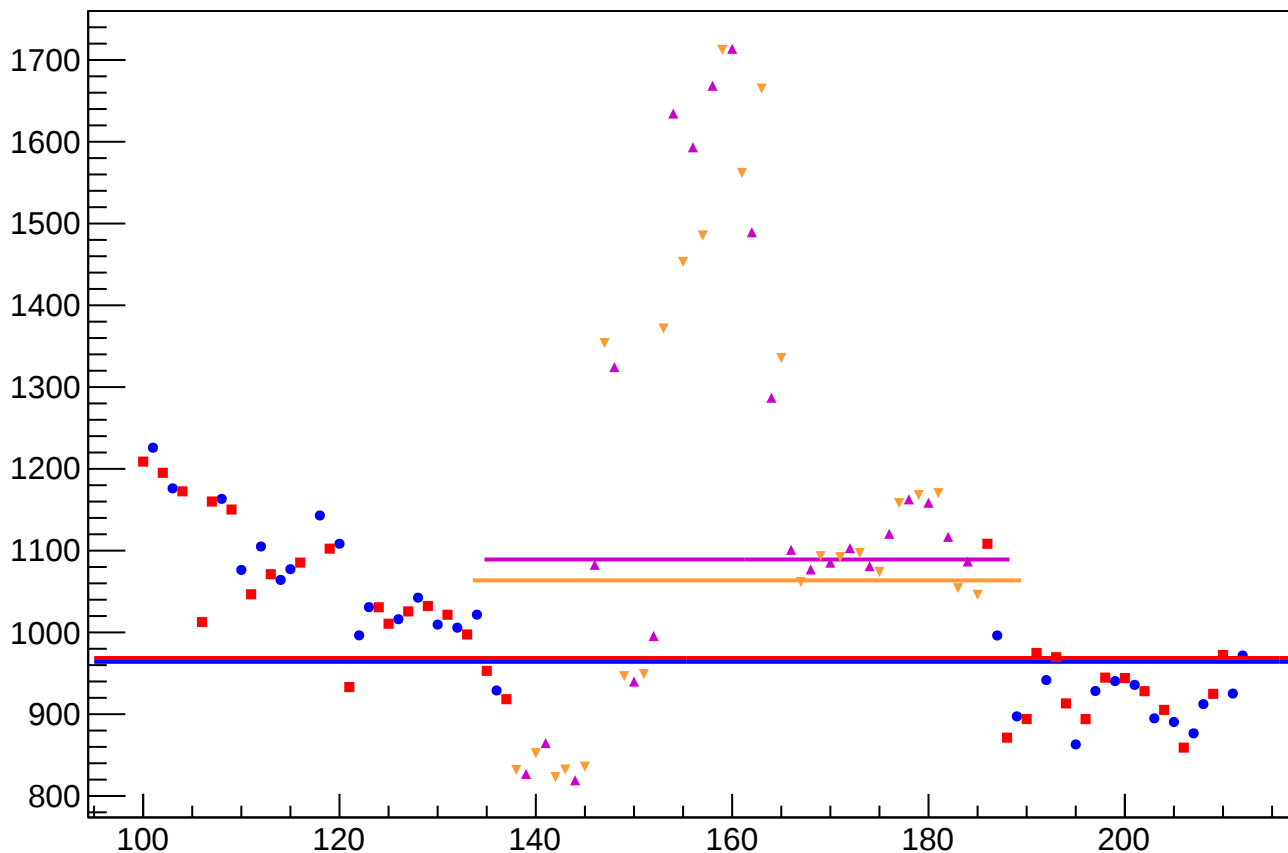
Right: 1.638 $\pm$ 0.170 χ^2 /NDF: 3229.9/62

In: 0.143 $\pm$ 0.180 χ^2 /NDF:768.3/52

Out: 2.563 $\pm$ 0.174 χ^2 /NDF:2566.9/57

All: 1.392 $\pm$ 0.125 χ^2 /NDF: 3428.6/110

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 964.059 $\pm$ 0.171 χ^2/NDF : 271014.7/29

Left Out: 1063.600 $\pm$ 0.180 χ^2/NDF : 1617376.3/24

Right Out: 968.676 $\pm$ 0.169 χ^2/NDF : 269308.3/32

Left In: 1089.154 $\pm$ 0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2/NDF : 3057378.7/47

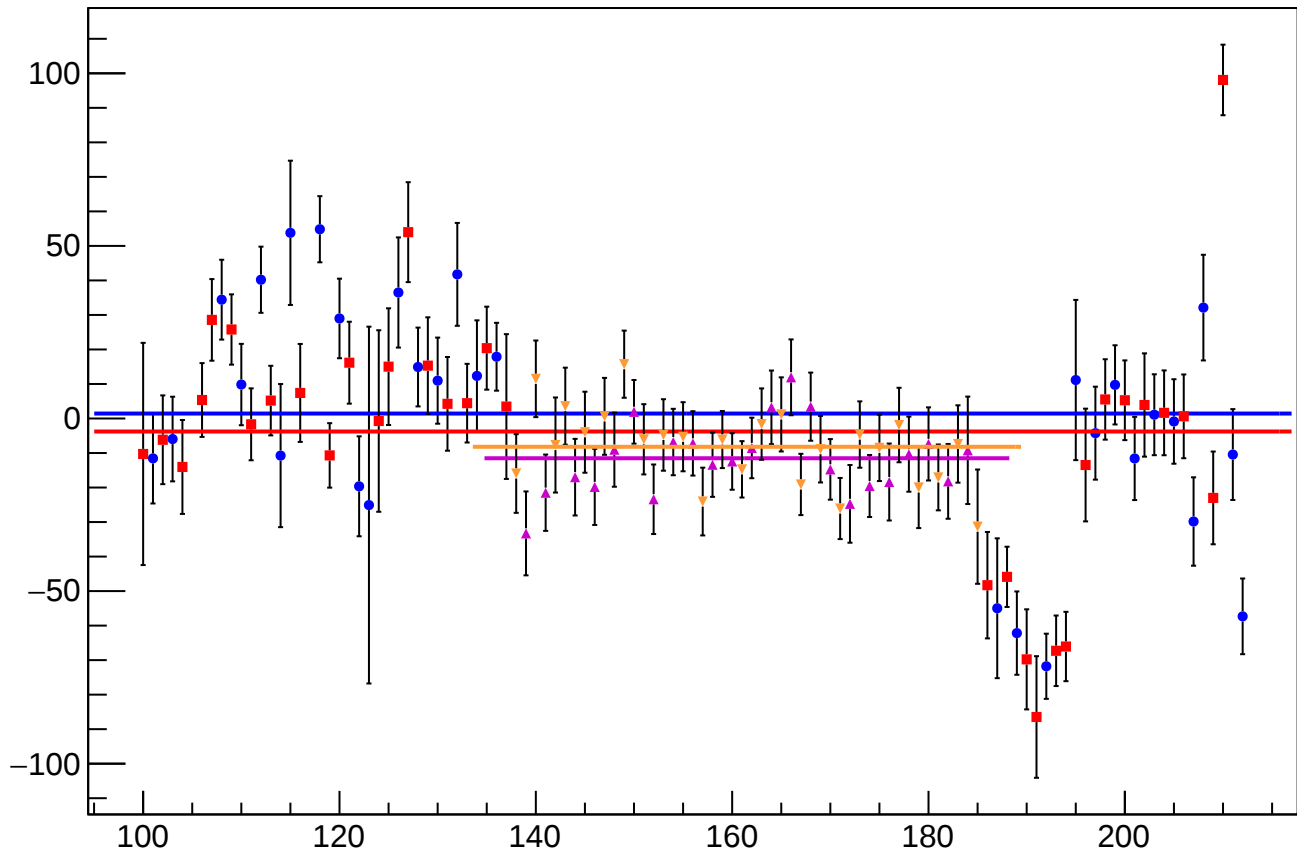
Right: 966.400 $\pm$ 0.120 χ^2/NDF : 540691.3/62

In: 1020.144 $\pm$ 0.127 χ^2/NDF : 1940646.5/52

Out: 1013.063 $\pm$ 0.123 χ^2/NDF : 2034452.0/57

All: 1016.490 $\pm$ 0.089 χ^2/NDF : 3976696.7/111

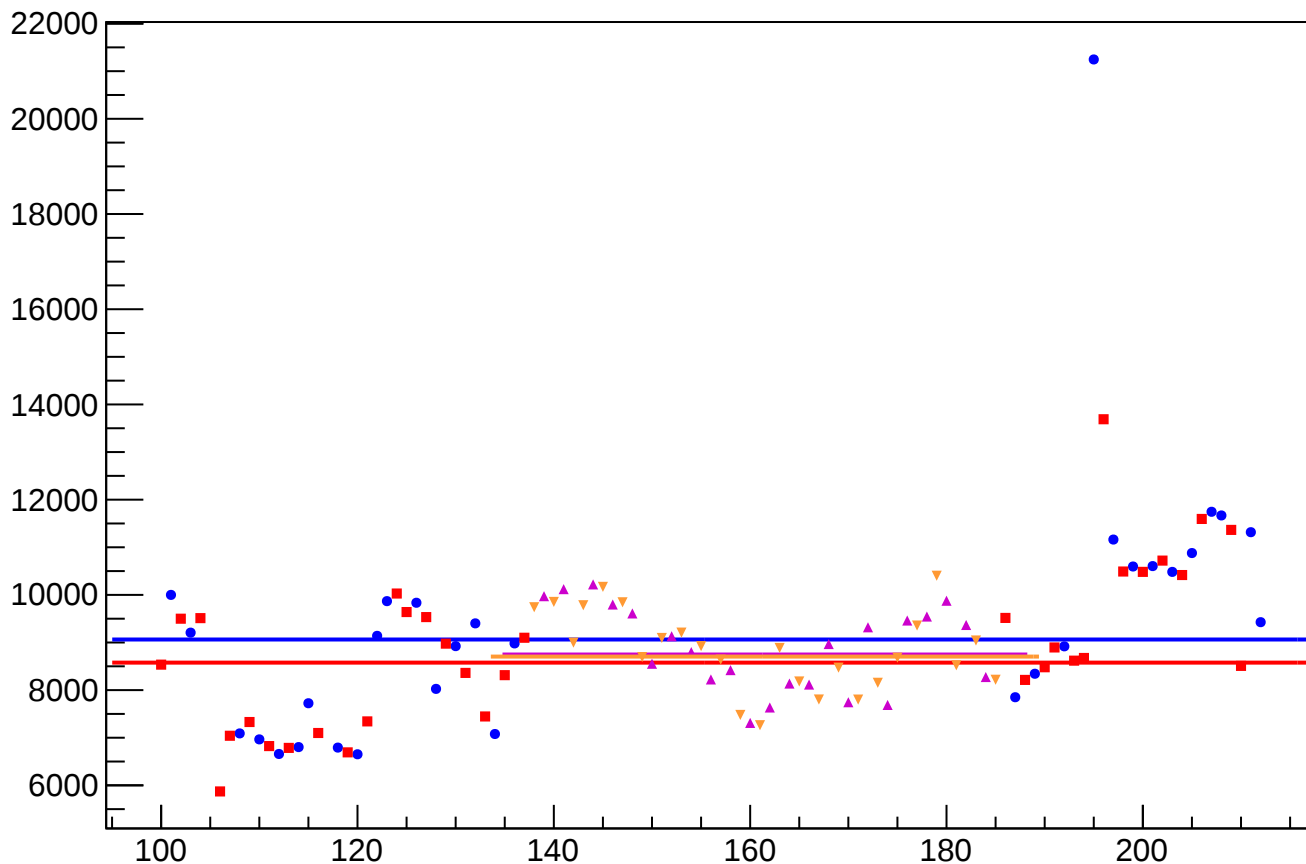
diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 1.436 ± 2.333 $\chi^2/\text{NDF}: 226.9/29$
 Left Out: -8.195 ± 2.049 $\chi^2/\text{NDF}: 26.2/24$
 Right Out: -3.766 ± 2.161 $\chi^2/\text{NDF}: 301.2/32$
 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: -1.363 ± 1.585 $\chi^2/\text{NDF}: 530.8/62$
 In: -5.649 ± 1.570 $\chi^2/\text{NDF}: 264.8/52$
 Out: -6.099 ± 1.487 $\chi^2/\text{NDF}: 329.6/57$
 All: -5.886 ± 1.079 $\chi^2/\text{NDF}: 594.4/110$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9062.992 ± 1.649 $\chi^2/\text{NDF}: 1506343.9/29$

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

Right Out: 8577.382 ± 1.528 $\chi^2/\text{NDF}: 1115018.8/32$

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

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

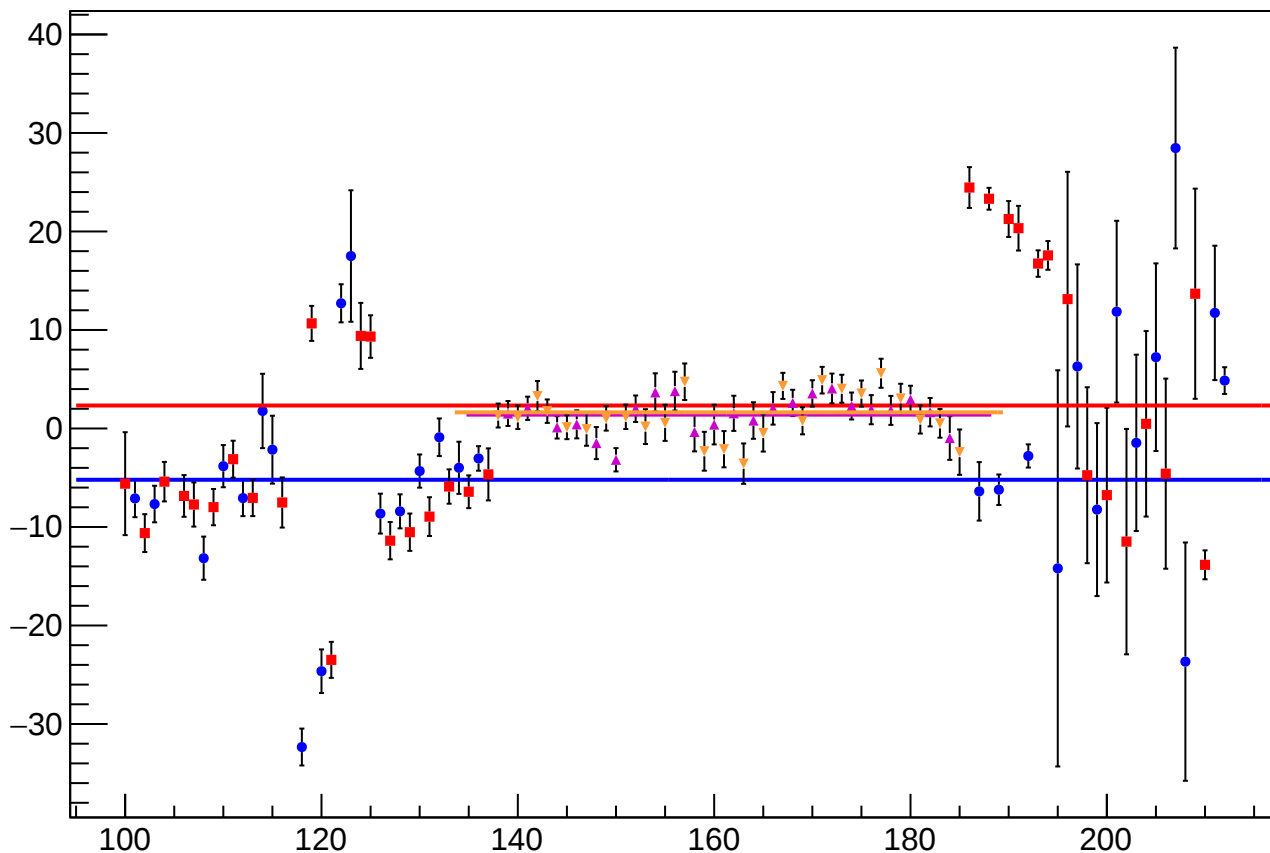
Right: 8801.684 ± 1.121 $\chi^2/\text{NDF}: 2668009.5/62$

In: 8890.349 ± 1.110 $\chi^2/\text{NDF}: 1873482.2/52$

Out: 8644.171 ± 1.051 $\chi^2/\text{NDF}: 1451010.2/57$

All: 8760.578 ± 0.763 $\chi^2/\text{NDF}: 3350420.8/111$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -5.207 ± 0.405 $\chi^2/\text{NDF}: 507.4/29$

Left Out: 1.639 ± 0.294 $\chi^2/\text{NDF}: 51.3/24$

Right Out: 2.332 ± 0.361 $\chi^2/\text{NDF}: 1601.0/32$

Left In: 1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

Left: 1.528 ± 0.213 $\chi^2/\text{NDF}: 85.8/47$

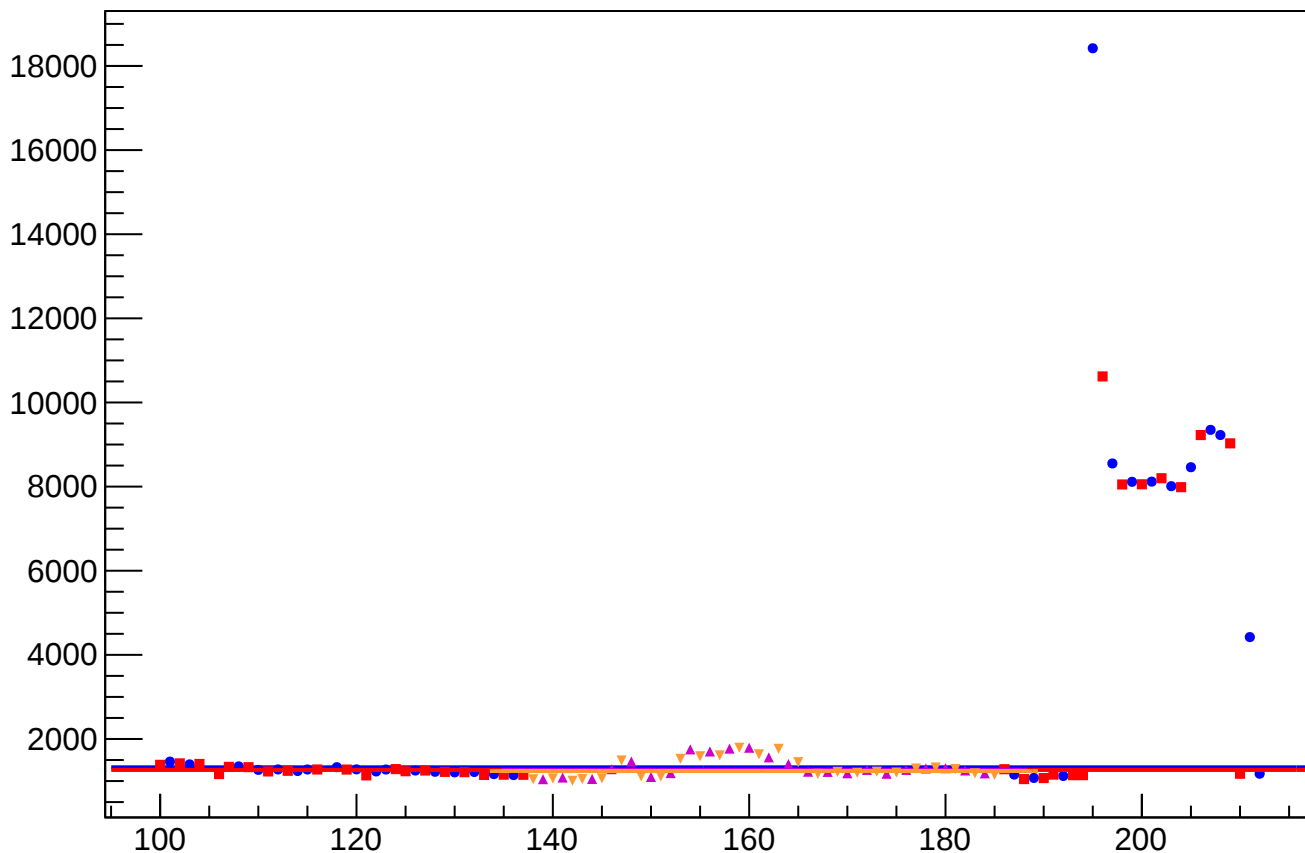
Right: -1.009 ± 0.269 $\chi^2/\text{NDF}: 2301.7/62$

In: -1.031 ± 0.246 $\chi^2/\text{NDF}: 710.1/52$

Out: 1.915 ± 0.228 $\chi^2/\text{NDF}: 1654.6/57$

All: 0.552 ± 0.167 $\chi^2/\text{NDF}: 2442.1/110$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1326.364+/-0.286 χ^2/NDF : 9686986.0/29

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

Right Out: 1264.087+/-0.255 χ^2/NDF : 7763541.3/32

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

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

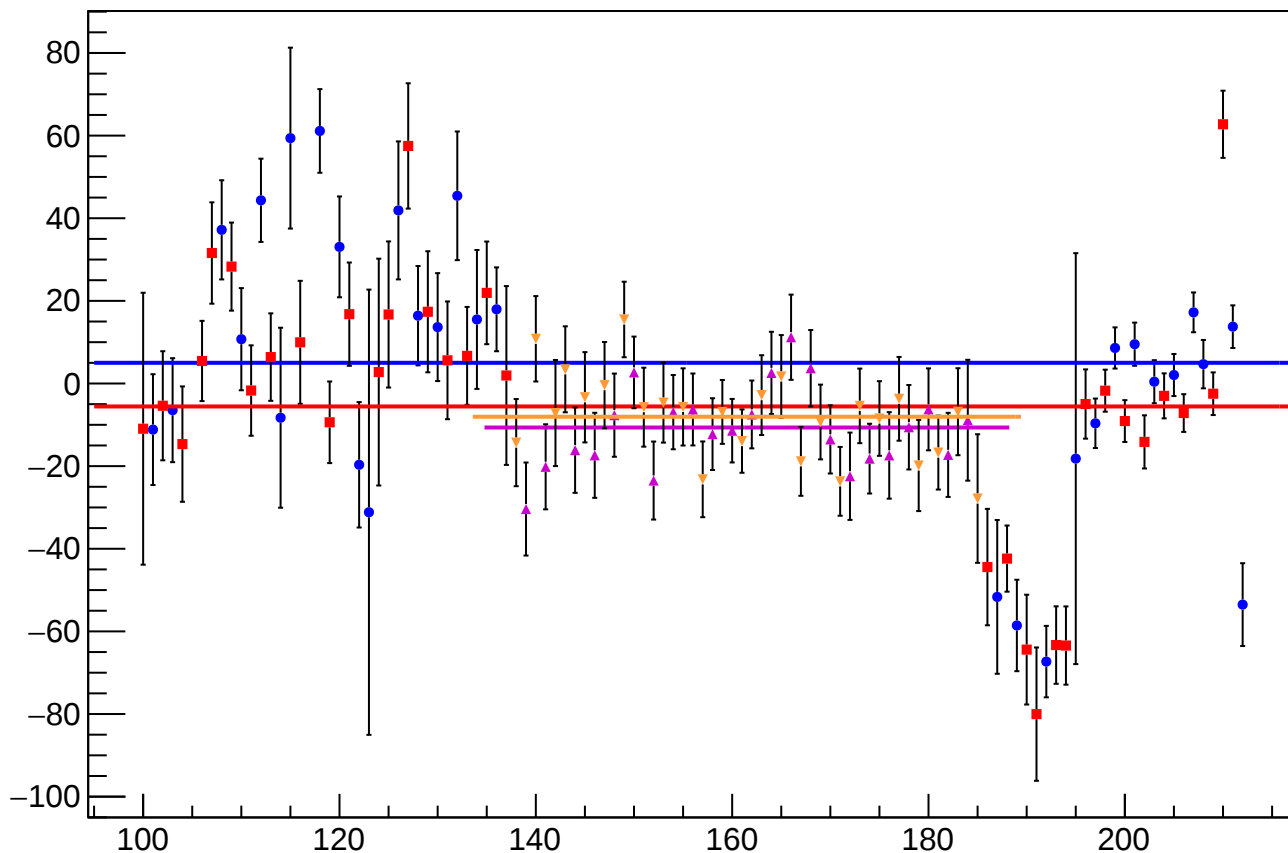
Right: 1291.691+/-0.190 χ^2/NDF : 17476912.2/62

In: 1288.032+/-0.174 χ^2/NDF : 10560569.9/52

Out: 1248.650+/-0.161 χ^2/NDF : 8734792.1/57

All: 1266.863+/-0.118 χ^2/NDF : 19323012.5/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 5.011 ± 1.545 χ^2/NDF : 249.8/29

Left Out: -8.042 ± 1.918 χ^2/NDF : 26.3/24

Right Out: -5.555 ± 1.555 χ^2/NDF : 274.0/32

Left In: -10.653 ± 1.988 χ^2/NDF : 21.4/22

Left: -9.301 ± 1.380 χ^2/NDF : 48.6/47

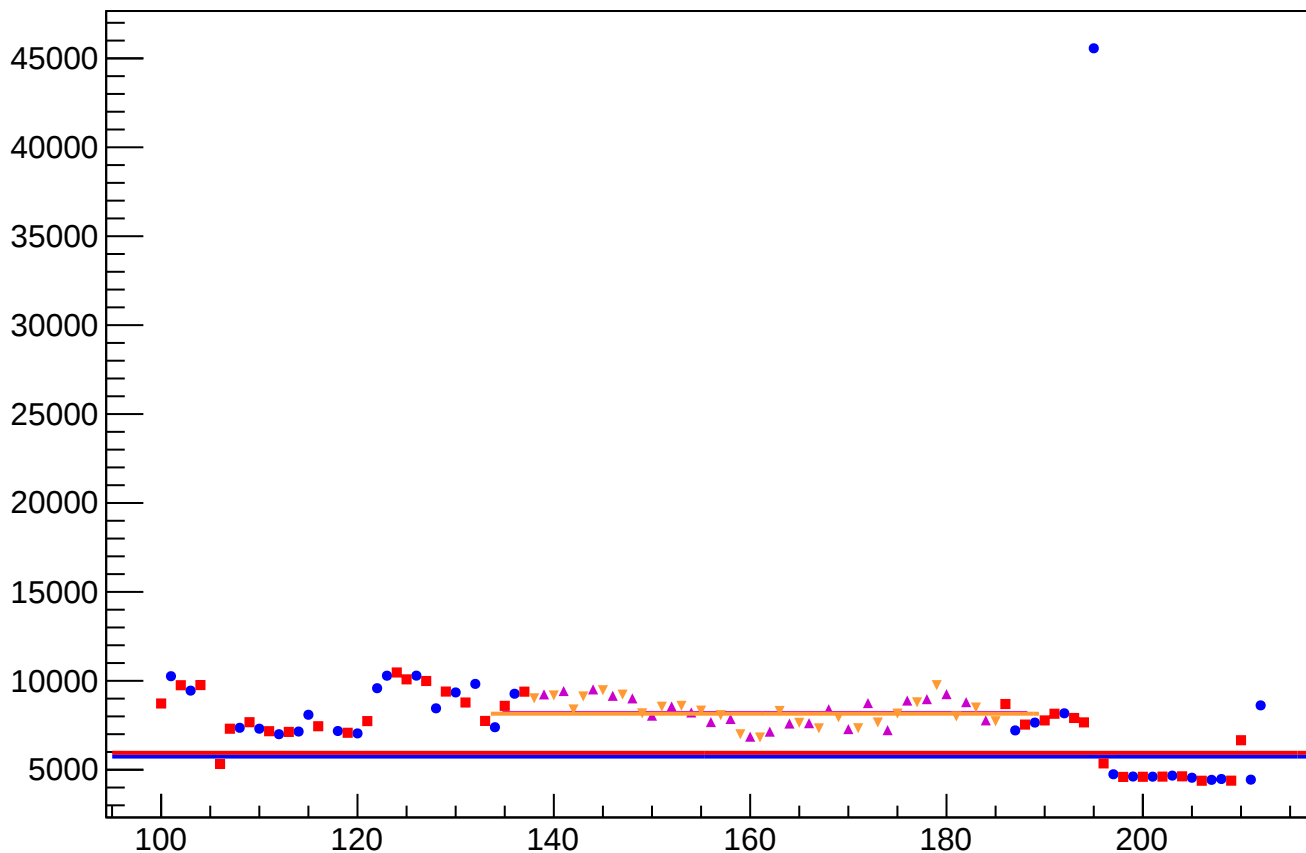
Right: -0.237 ± 1.096 χ^2/NDF : 547.0/62

In: -0.888 ± 1.220 χ^2/NDF : 309.9/52

Out: -6.541 ± 1.208 χ^2/NDF : 301.3/57

All: -3.742 ± 0.858 χ^2/NDF : 622.0/110

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5741.875+/-1.092

χ^2/NDF : 4028050.5/29

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

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

Right: 5847.196+/-0.775 χ^2/NDF : 6593594.7/62

Right Out: 5953.902+/-1.100

χ^2/NDF : 2546830.9/32

In: 6665.242+/-0.862 χ^2/NDF : 6263566.3/52

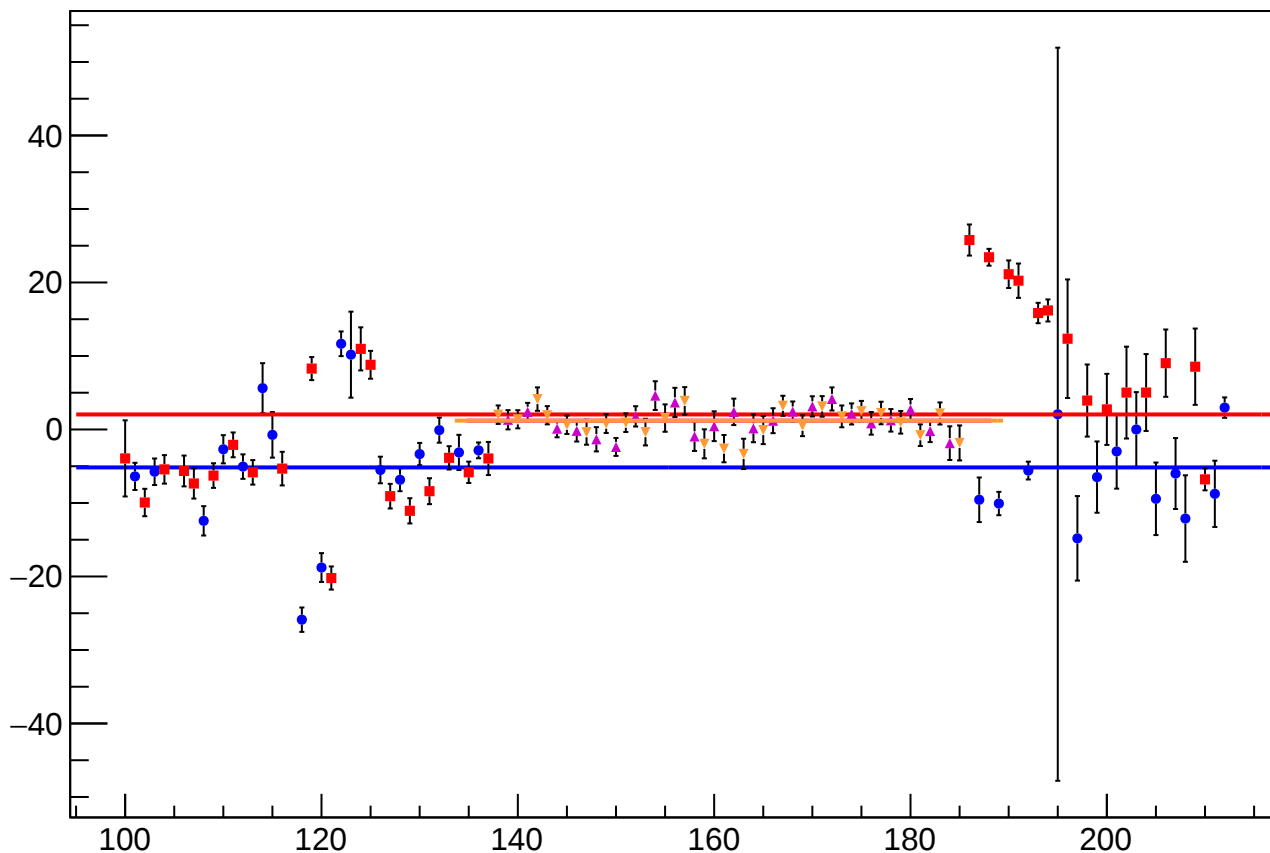
Out: 6825.401+/-0.854 χ^2/NDF : 4452732.5/57

Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

All: 6746.101+/-0.607 χ^2/NDF : 10733707.6/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.162 ± 0.372 χ^2/NDF : 409.0/29

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

Right Out: 2.044 ± 0.339 χ^2/NDF : 1449.1/32

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

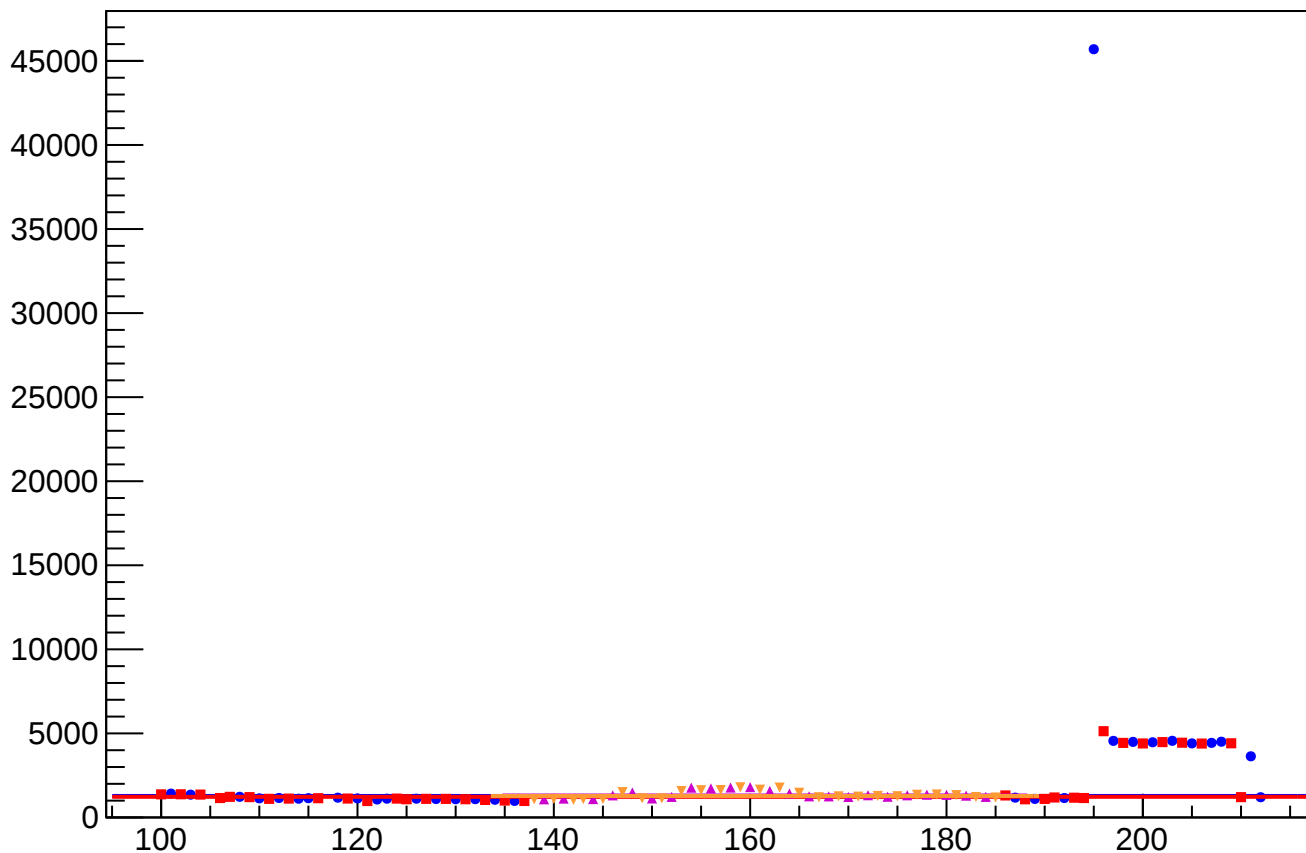
Right: -1.223 ± 0.250 χ^2/NDF : 2063.4/62

In: -1.491 ± 0.242 χ^2/NDF : 609.1/52

Out: 1.577 ± 0.226 χ^2/NDF : 1482.5/57

All: 0.149 ± 0.165 χ^2/NDF : 2177.6/110

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1277.711+/-0.263 χ^2/NDF : 7972536.6/29

Left Out: 1277.916+/-0.214 χ^2/NDF : 878127.9/24

Right Out: 1227.965+/-0.239 χ^2/NDF : 5501142.9/32

Left In: 1305.541+/-0.225 χ^2/NDF : 760450.8/22

Left: 1291.030+/-0.155 χ^2/NDF : 1646499.4/47

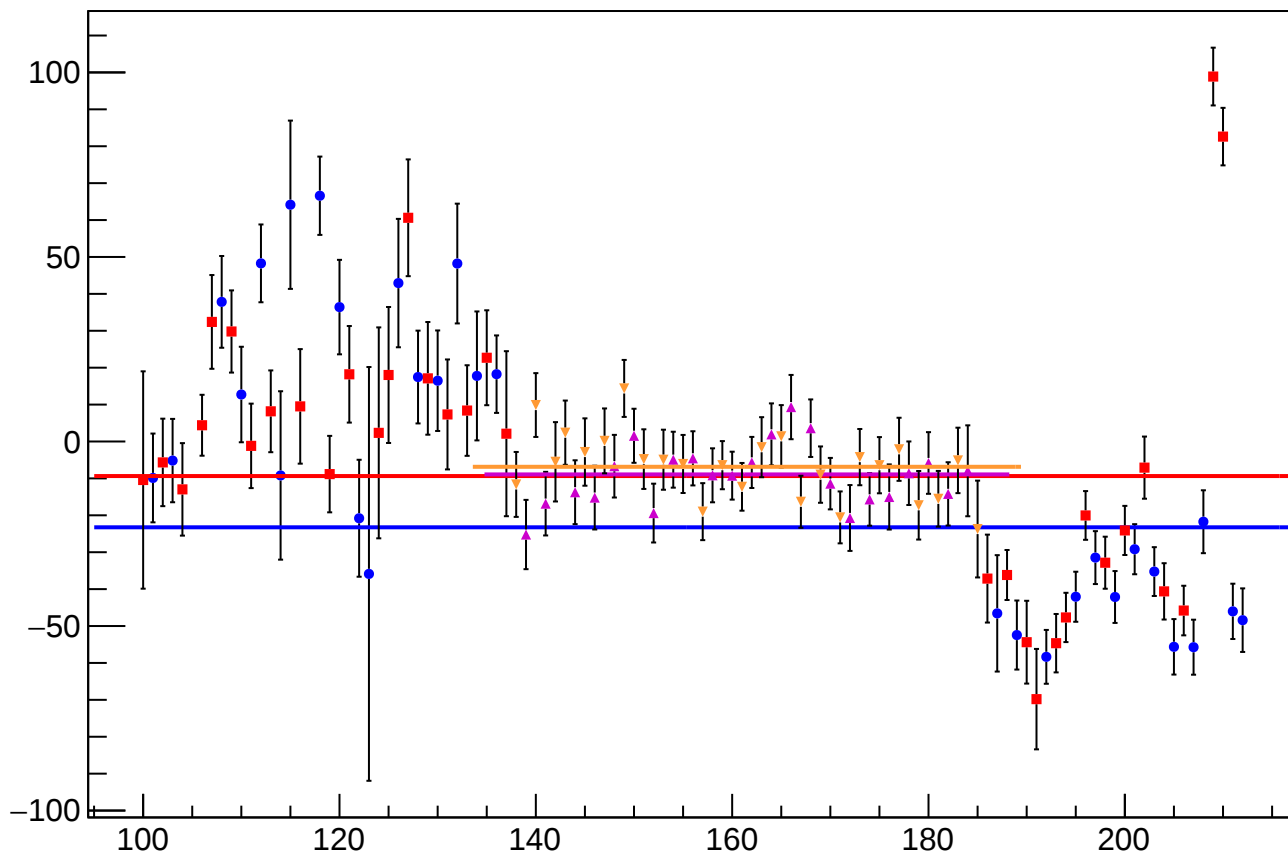
Right: 1250.523+/-0.177 χ^2/NDF : 13493251.4/62

In: 1293.776+/-0.171 χ^2/NDF : 8739456.8/52

Out: 1255.751+/-0.160 χ^2/NDF : 6403478.8/57

All: 1273.451+/-0.117 χ^2/NDF : 15169389.6/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -23.251 ± 1.791 χ^2/NDF : 375.1/29

Left Out: -6.854 ± 1.616 χ^2/NDF : 28.7/24

Right Out: -9.364 ± 1.708 χ^2/NDF : 588.0/32

Left In: -8.923 ± 1.674 χ^2/NDF : 21.8/22

Left: -7.852 ± 1.163 χ^2/NDF : 51.3/47

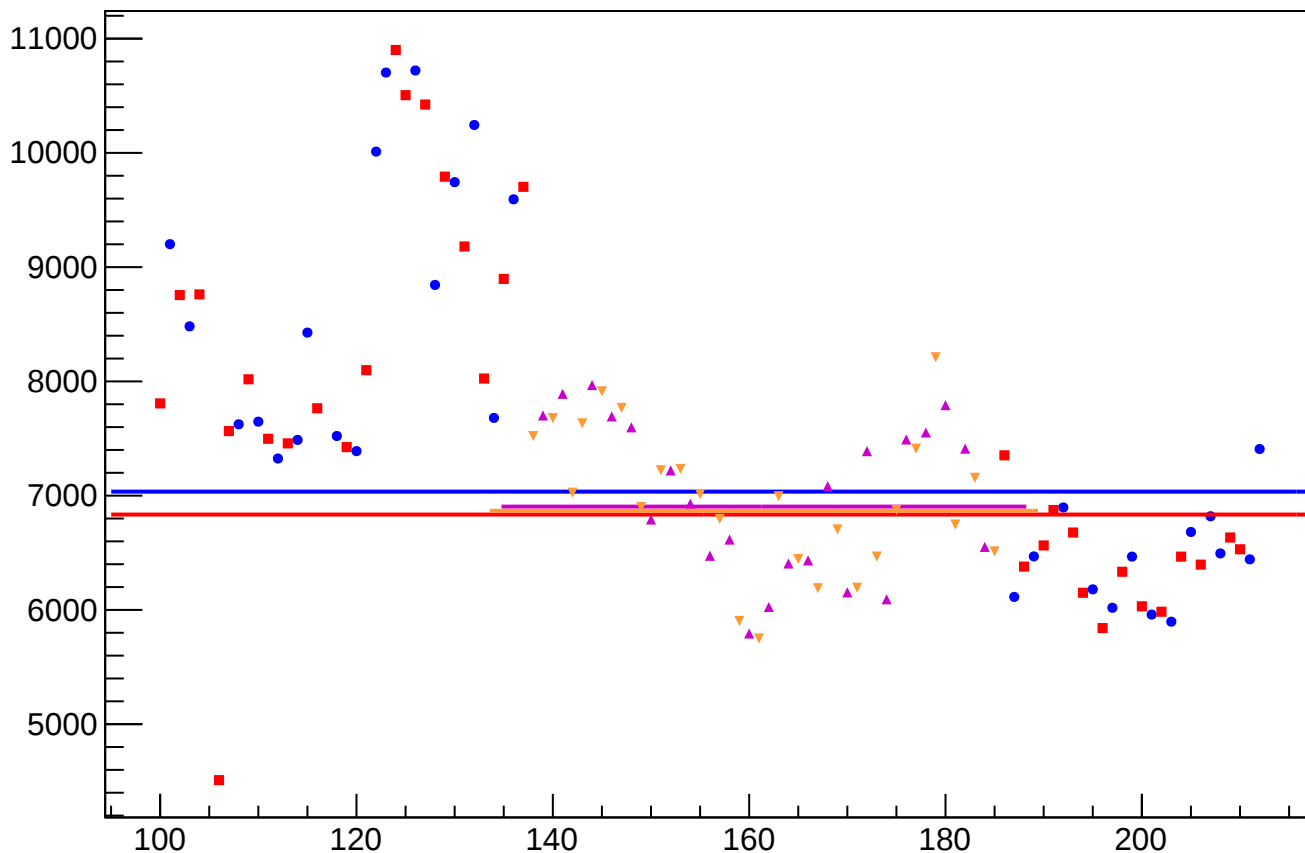
Right: -15.976 ± 1.236 χ^2/NDF : 994.5/62

In: -15.603 ± 1.223 χ^2/NDF : 431.0/52

Out: -8.039 ± 1.174 χ^2/NDF : 617.8/57

All: -11.665 ± 0.847 χ^2/NDF : 1068.7/110

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7035.332+/-1.267 χ^2/NDF : 851347.6/29

Left Out: 6867.371+/-1.142 χ^2/NDF : 306895.0/24

Right Out: 6834.640+/-1.208 χ^2/NDF : 944240.9/32

Left In: 6904.117+/-1.184 χ^2/NDF : 325912.6/22

Left: 6885.088+/-0.822 χ^2/NDF : 633306.5/47

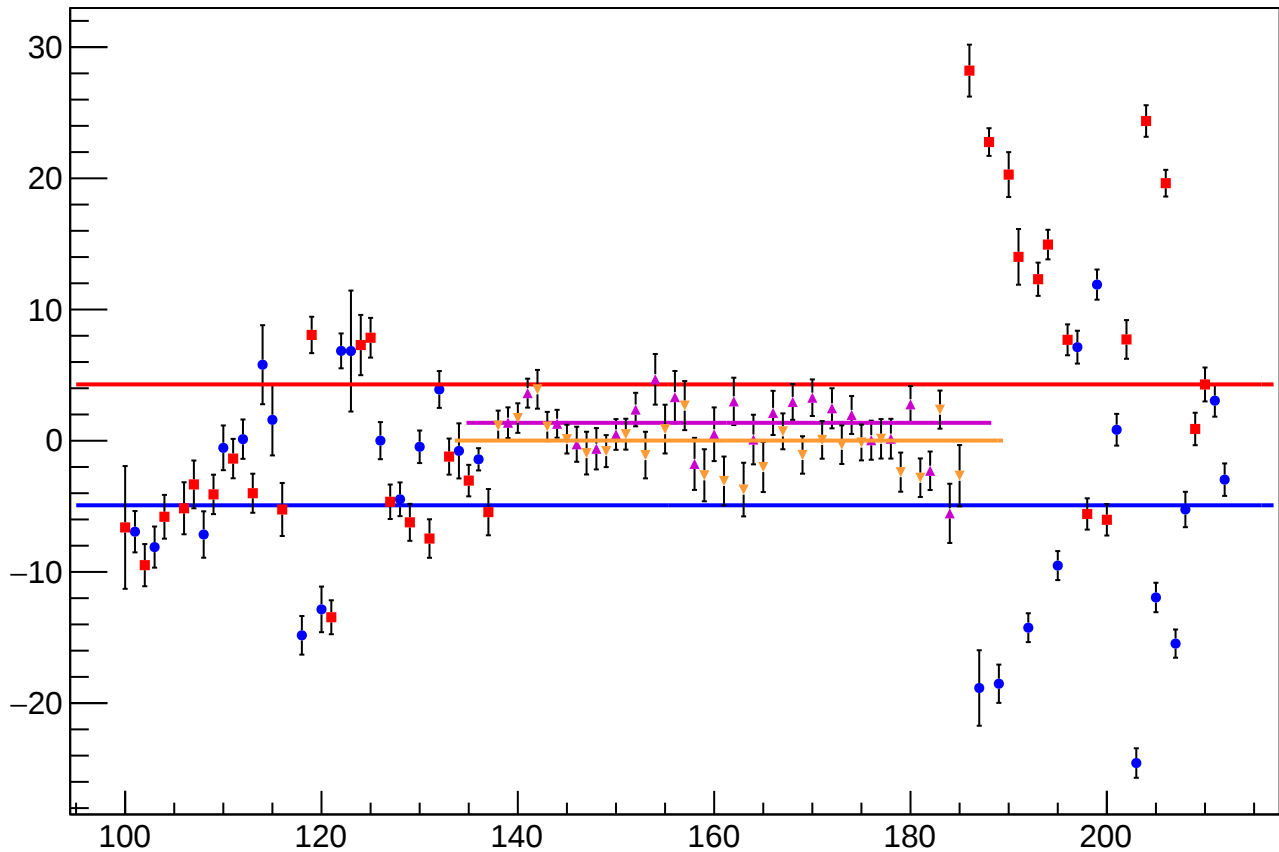
Right: 6930.200+/-0.874 χ^2/NDF : 1808737.2/62

In: 6965.295+/-0.865 χ^2/NDF : 1182987.2/52

Out: 6851.915+/-0.830 χ^2/NDF : 1251523.5/57

All: 6906.261+/-0.599 χ^2/NDF : 2443457.0/111

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.921 ± 0.249 $\chi^2/\text{NDF}: 1296.2/29$

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

Right Out: 4.293 ± 0.247 $\chi^2/\text{NDF}: 2066.1/32$

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

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

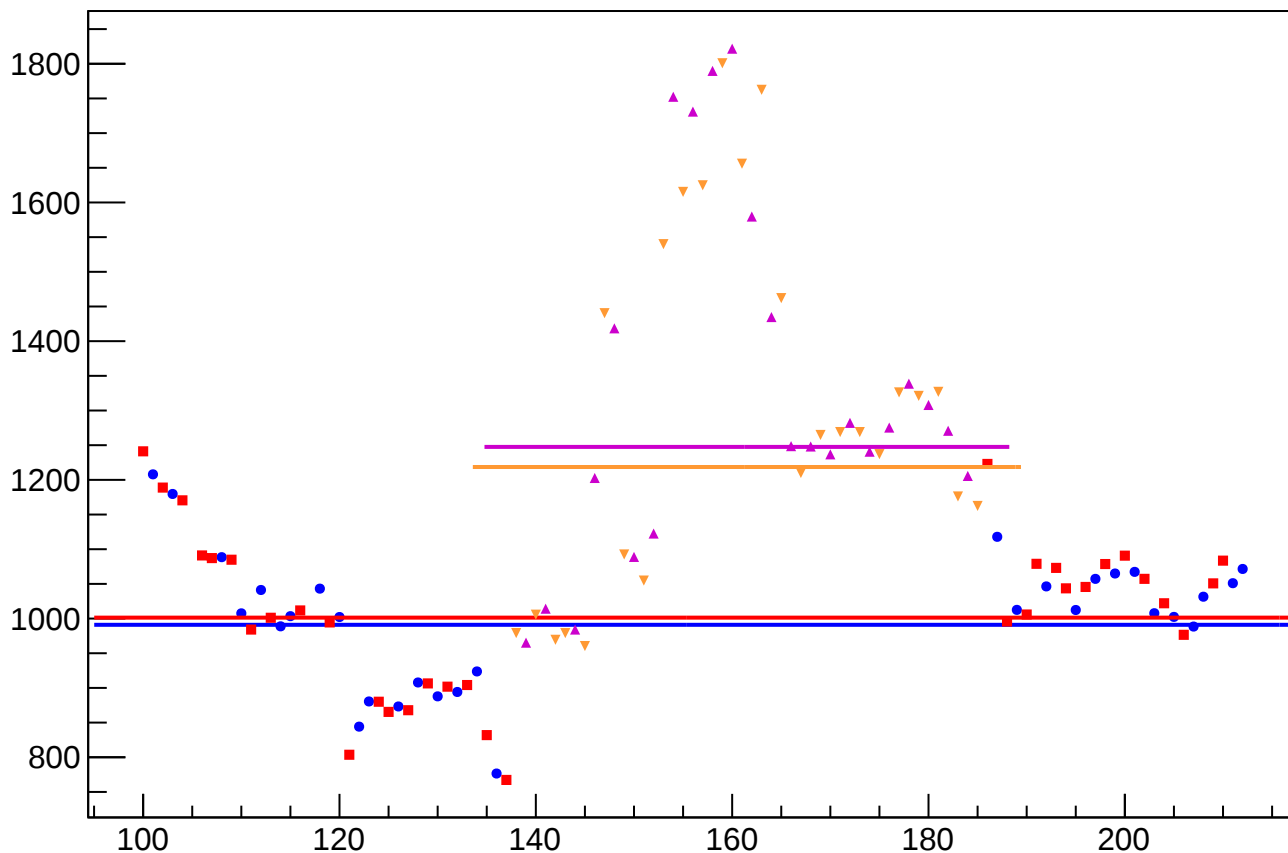
Right: -0.275 ± 0.175 $\chi^2/\text{NDF}: 4051.6/62$

In: -2.409 ± 0.193 $\chi^2/\text{NDF}: 1589.0/52$

Out: 2.492 ± 0.188 $\chi^2/\text{NDF}: 2227.3/57$

All: 0.107 ± 0.135 $\chi^2/\text{NDF}: 4146.9/110$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 990.996 $\pm$ 0.176 χ^2 /NDF: 327196.9/29

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 1001.348 $\pm$ 0.175 χ^2 /NDF: 335715.4/32

Left In: 1247.538 $\pm$ 0.216 χ^2 /NDF:1073390.3/22

Left: 1232.283 $\pm$ 0.149 χ^2 /NDF: 2348717.2/47

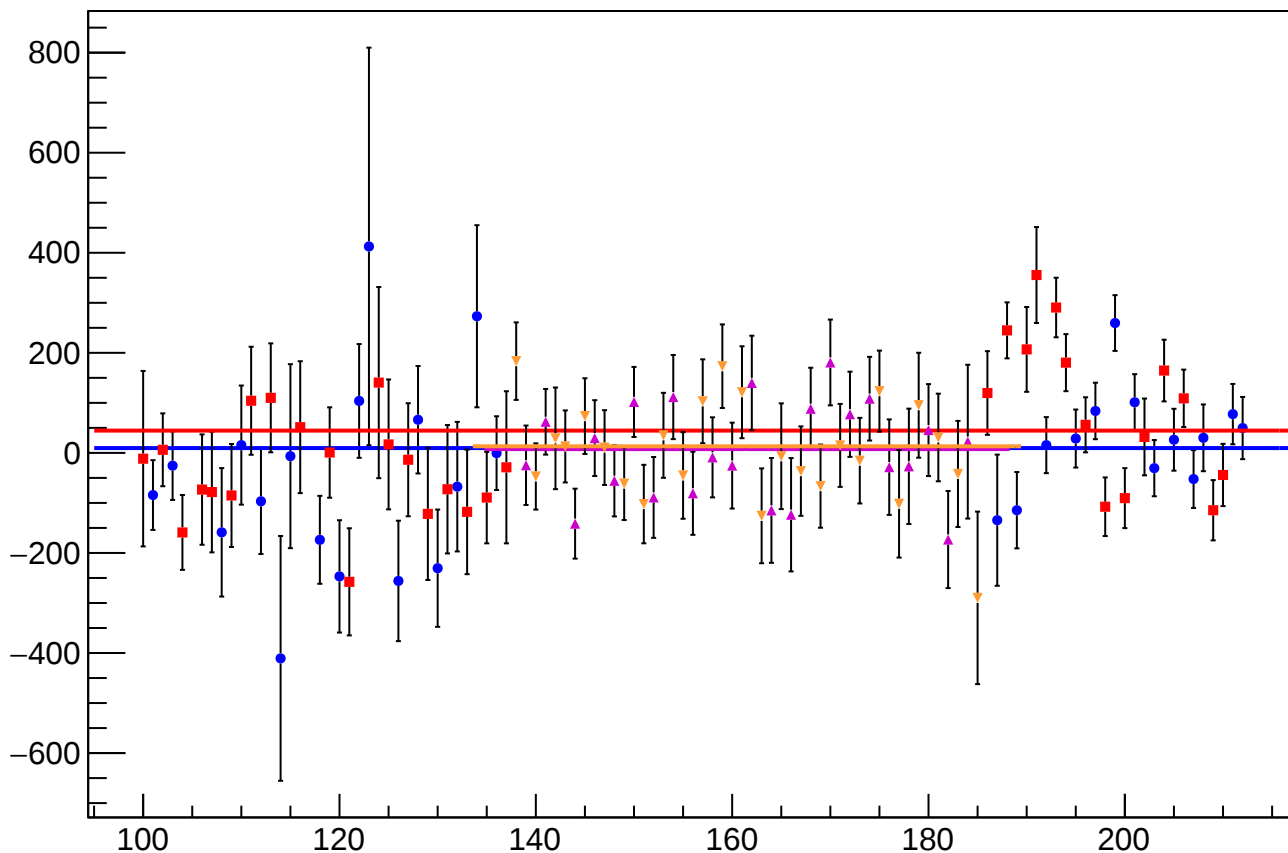
Right: 996.216 $\pm$ 0.124 χ^2 /NDF: 664652.4/62

In: 1093.501 $\pm$ 0.137 χ^2 /NDF:2247411.5/52

Out: 1092.738 $\pm$ 0.133 χ^2 /NDF:2251703.7/57

All: 1093.109 $\pm$ 0.095 χ^2 /NDF: 4499131.2/111

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 9.628 ± 14.264 χ^2/NDF : 62.9/29

Left Out: 13.207 ± 17.146 χ^2/NDF : 26.8/24

Right Out: 44.570 ± 14.053 χ^2/NDF : 104.0/32

Left In: 7.618 ± 17.672 χ^2/NDF : 28.1/22

Left: 10.497 ± 12.306 χ^2/NDF : 55.0/47

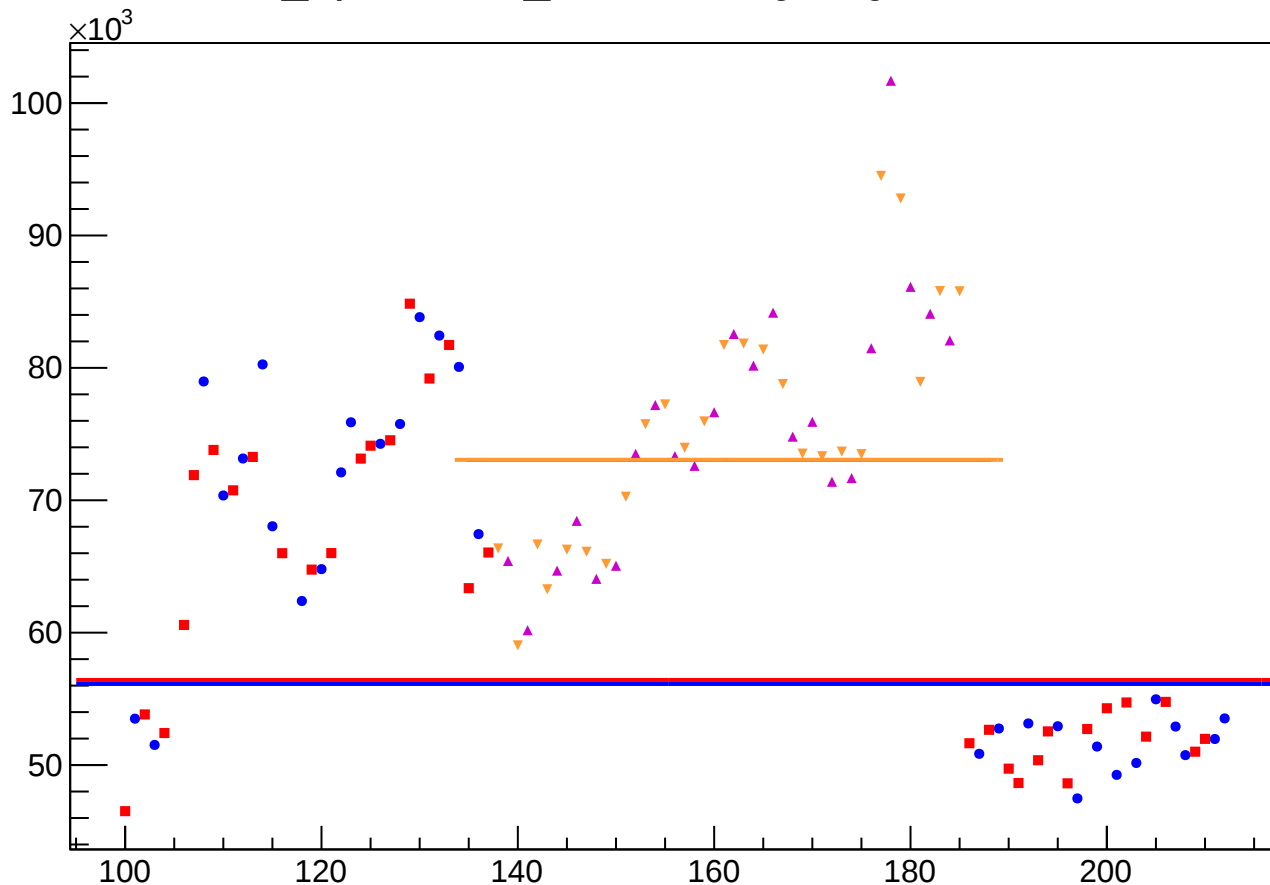
Right: 27.359 ± 10.011 χ^2/NDF : 169.9/62

In: 8.835 ± 11.099 χ^2/NDF : 91.0/52

Out: 31.967 ± 10.869 χ^2/NDF : 132.8/57

All: 20.644 ± 7.766 χ^2/NDF : 226.0/110

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 56125.665 $\pm$ 10.086

χ^2/NDF : 804335.1/29

Left: 73050.085 $\pm$ 8.701

χ^2/NDF : 936576.6/47

Left Out: 73054.401 $\pm$ 12.124

χ^2/NDF : 473050.9/24

Right: 56279.432 $\pm$ 7.079

χ^2/NDF : 1561047.8/62

Right Out: 56428.689 $\pm$ 9.937

χ^2/NDF : 756254.7/32

In: 62800.576 $\pm$ 7.848

χ^2/NDF : 2378014.7/52

Out: 63109.470 $\pm$ 7.686

χ^2/NDF : 2354114.3/57

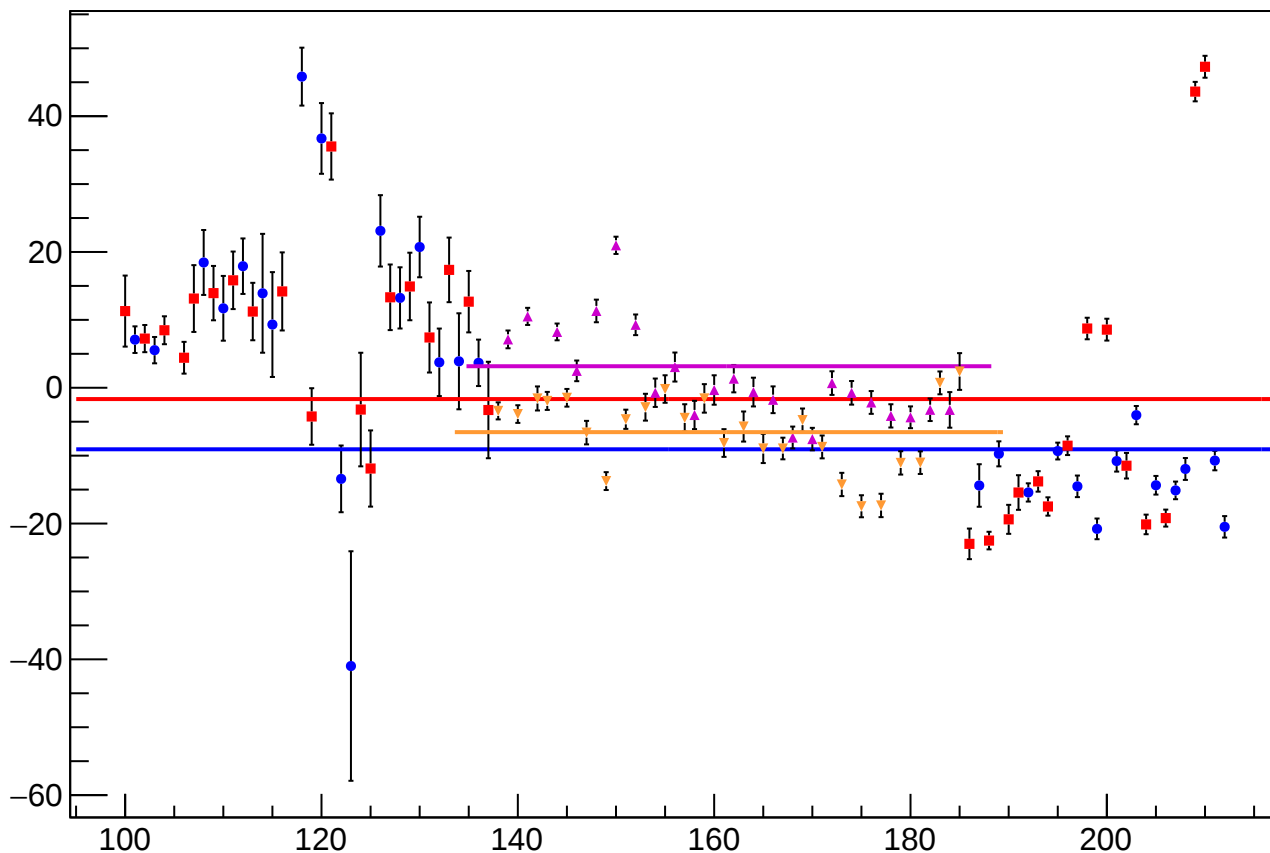
Left In: 73045.500 $\pm$ 12.496

χ^2/NDF : 463525.5/22

All: 62958.263 $\pm$ 5.491

χ^2/NDF : 4732919.7/111

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -9.064 ± 0.380 $\chi^2/\text{NDF}: 815.2/29$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -1.666 ± 0.376 $\chi^2/\text{NDF}: 3289.0/32$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$

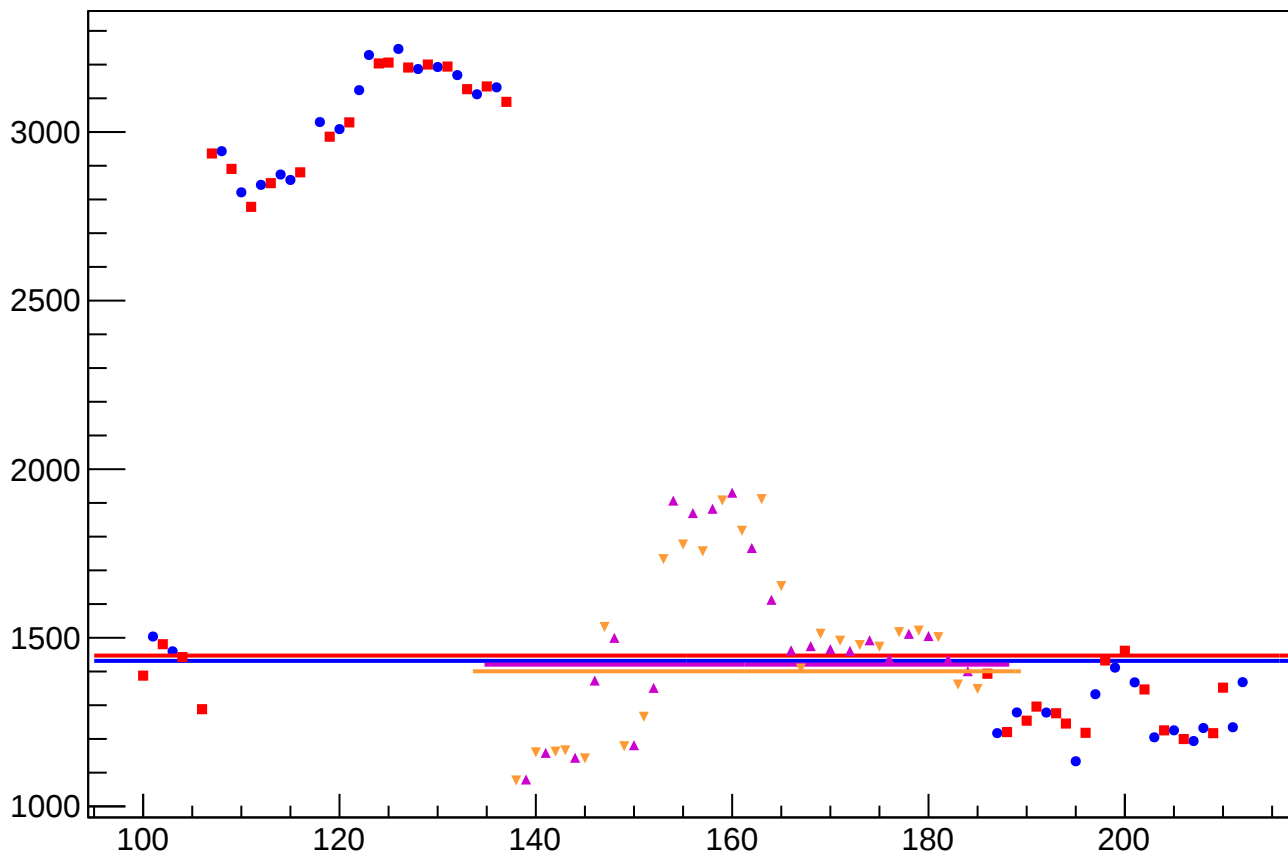
Right: -5.324 ± 0.267 $\chi^2/\text{NDF}: 4295.5/62$

In: -2.377 ± 0.256 $\chi^2/\text{NDF}: 1868.0/52$

Out: -4.405 ± 0.249 $\chi^2/\text{NDF}: 3636.0/57$

All: -3.420 ± 0.178 $\chi^2/\text{NDF}: 5536.3/110$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1431.511 ± 0.269 χ^2/NDF : 3580061.5/29

Left Out: 1400.637 ± 0.235 χ^2/NDF : 1037921.6/24

Right Out: 1447.250 ± 0.266 χ^2/NDF : 3536603.0/32

Left In: 1420.285 ± 0.245 χ^2/NDF : 905186.2/22

Left: 1410.037 ± 0.169 χ^2/NDF : 1946462.8/47

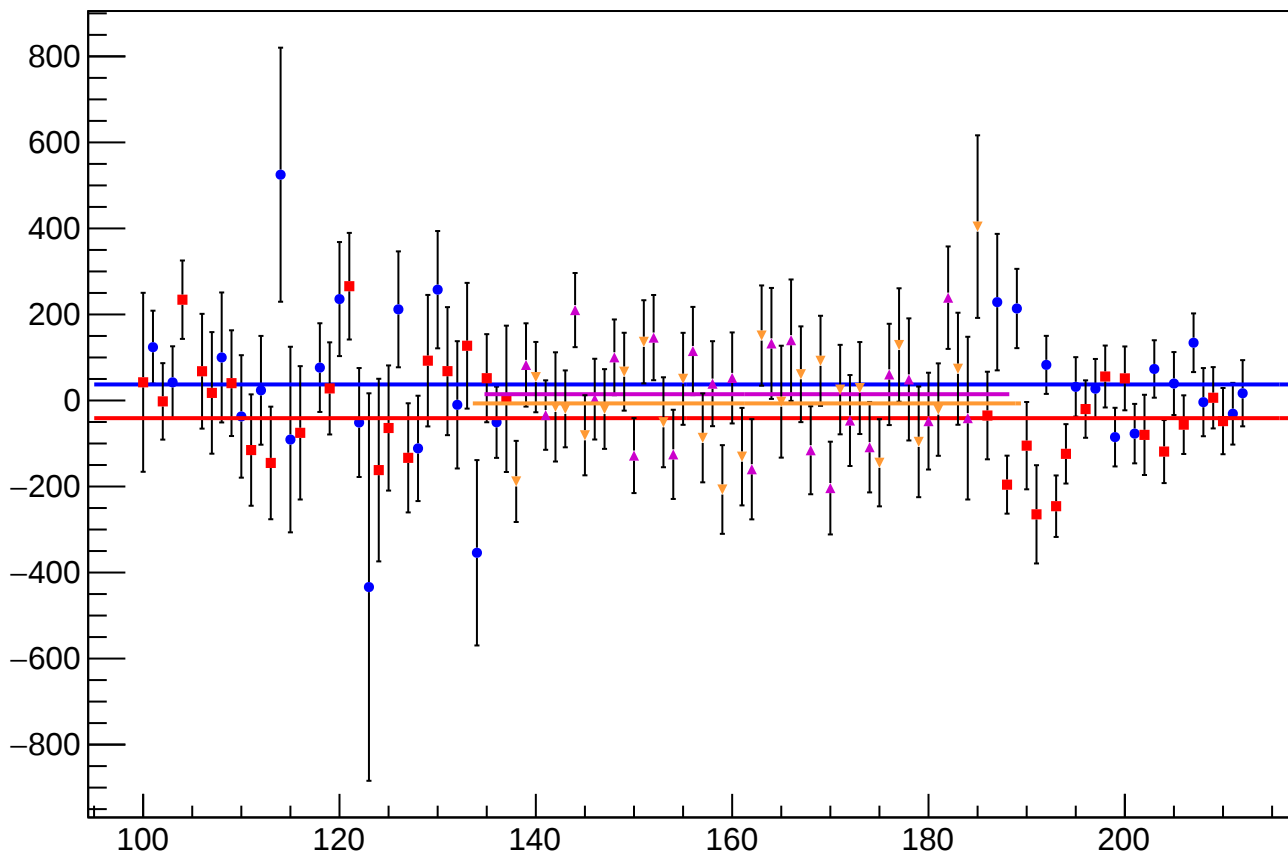
Right: 1439.467 ± 0.189 χ^2/NDF : 7118395.8/62

In: 1425.375 ± 0.181 χ^2/NDF : 4486199.8/52

Out: 1421.035 ± 0.176 χ^2/NDF : 4591796.7/57

All: 1423.143 ± 0.126 χ^2/NDF : 9078292.0/11

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 37.294 $\pm$ 17.038 χ^2/NDF : 34.0/29

Left Out: -6.789 $\pm$ 21.213 χ^2/NDF :24.7/24

Right Out: -41.085 $\pm$ 16.838 χ^2/NDF : 47.1/32

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

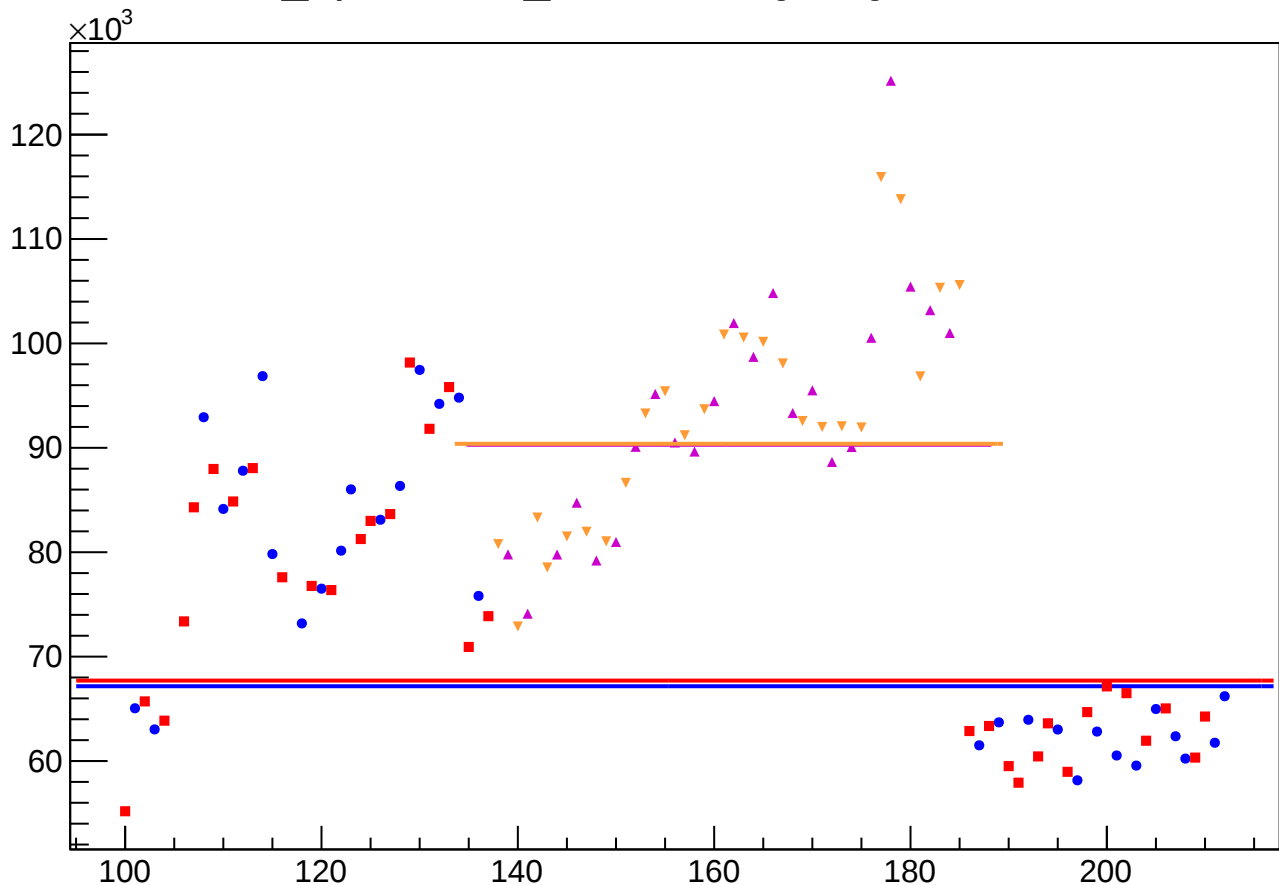
Right: -2.357 $\pm$ 11.976 χ^2/NDF : 91.8/62

In: 28.715 $\pm$ 13.435 χ^2/NDF :64.5/52

Out: -27.829 $\pm$ 13.188 χ^2/NDF :73.4/57

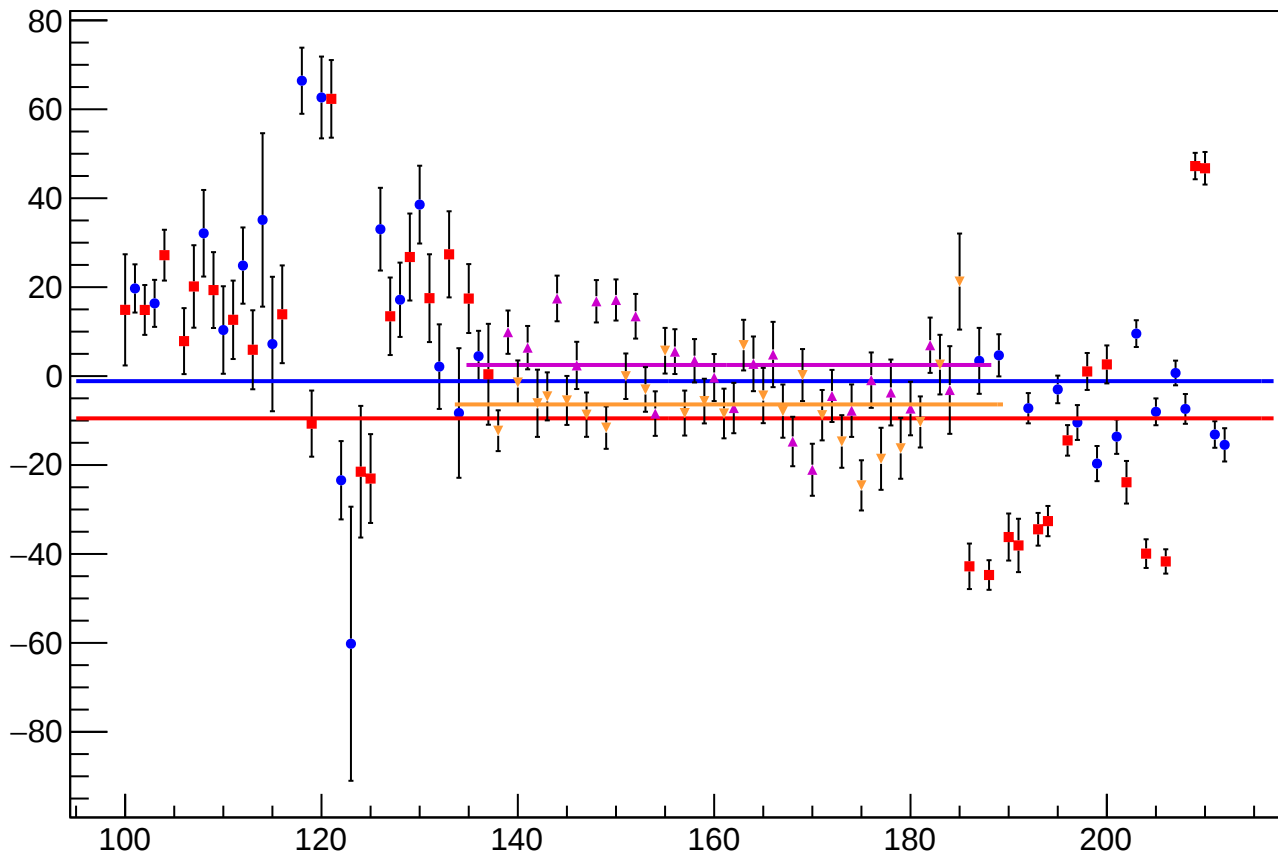
All: -0.080 $\pm$ 9.412 χ^2/NDF : 146.9/110

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67162.962 $\pm$ 12.047	χ^2 /NDF: 653894.2/29	Left: 90340.563 $\pm$ 10.761	χ^2 /NDF: 923003.7/47
Left Out: 90384.853 $\pm$ 15.000	χ^2 /NDF: 461648.2/24	Right: 67437.219 $\pm$ 8.469	χ^2 /NDF: 1287710.9/62
Right Out: 67705.096 $\pm$ 11.906	χ^2 /NDF: 632792.3/32	In: 75910.919 $\pm$ 9.500	χ^2 /NDF: 2509377.5/52
Left In: 90293.591 $\pm$ 15.448	χ^2 /NDF: 461337.5/22	Out: 76471.436 $\pm$ 9.326	χ^2 /NDF: 2496907.7/57
		All: 76196.365 $\pm$ 6.655	χ^2 /NDF: 5008058.0/100

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: -1.135 ± 0.873 χ^2/NDF : 328.6/29

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: -9.503 ± 0.887 χ^2/NDF : 1379.4/32

Left In: 2.501 ± 1.156 χ^2/NDF : 78.4/22

Left: -2.059 ± 0.806 χ^2/NDF : 154.1/47

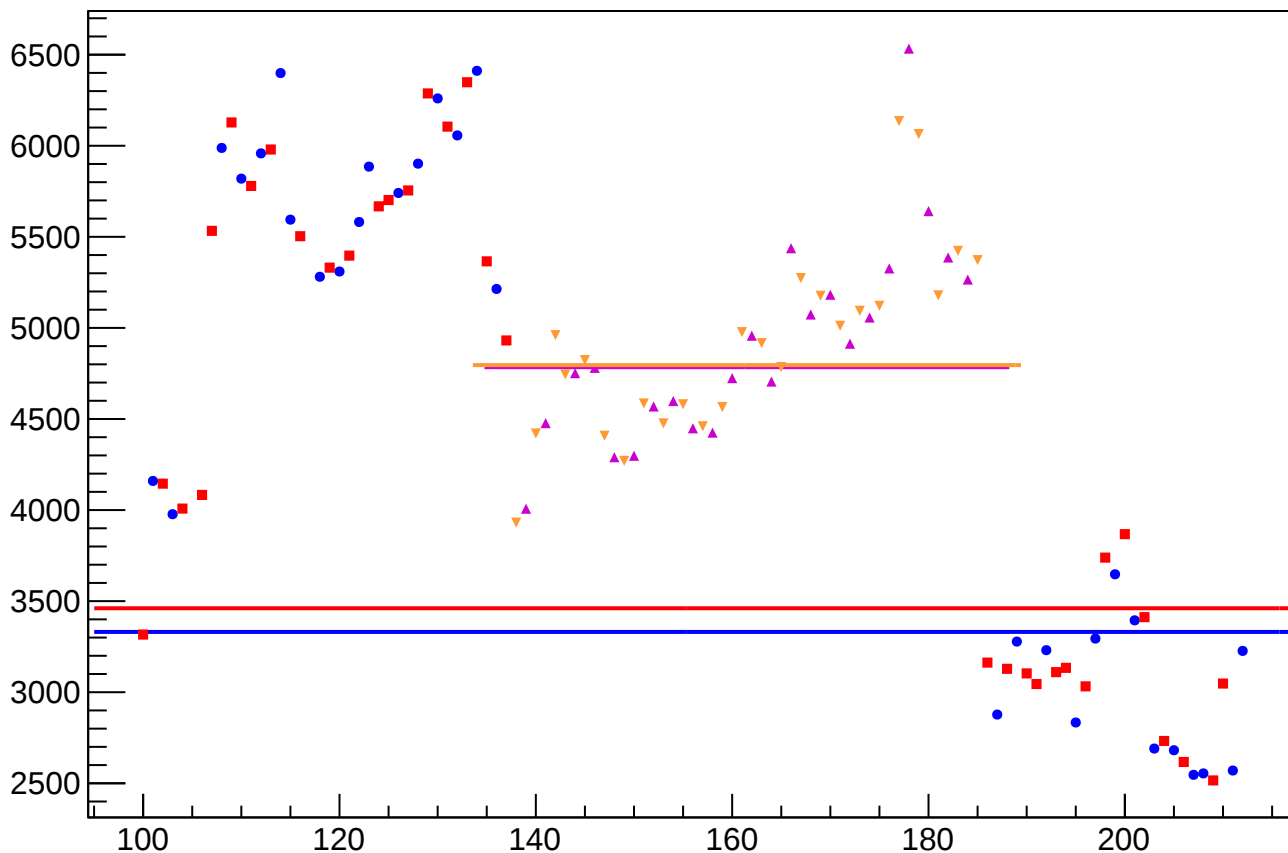
Right: -5.255 ± 0.622 χ^2/NDF : 1753.2/62

In: 0.186 ± 0.697 χ^2/NDF : 413.4/52

Out: -8.301 ± 0.696 χ^2/NDF : 1429.6/57

All: -4.061 ± 0.492 χ^2/NDF : 1917.2/110

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3331.059 $\pm$ 0.617 χ^2 /NDF: 2685927.8/29

Left Out: 4795.847 $\pm$ 0.795 χ^2 /NDF:361249.7/24

Right Out: 3460.873 $\pm$ 0.627 χ^2 /NDF: 2538559.7/32

Left In: 4784.434 $\pm$ 0.817 χ^2 /NDF:357507.2/22

Left: 4790.301 $\pm$ 0.570 χ^2 /NDF: 718857.1/47

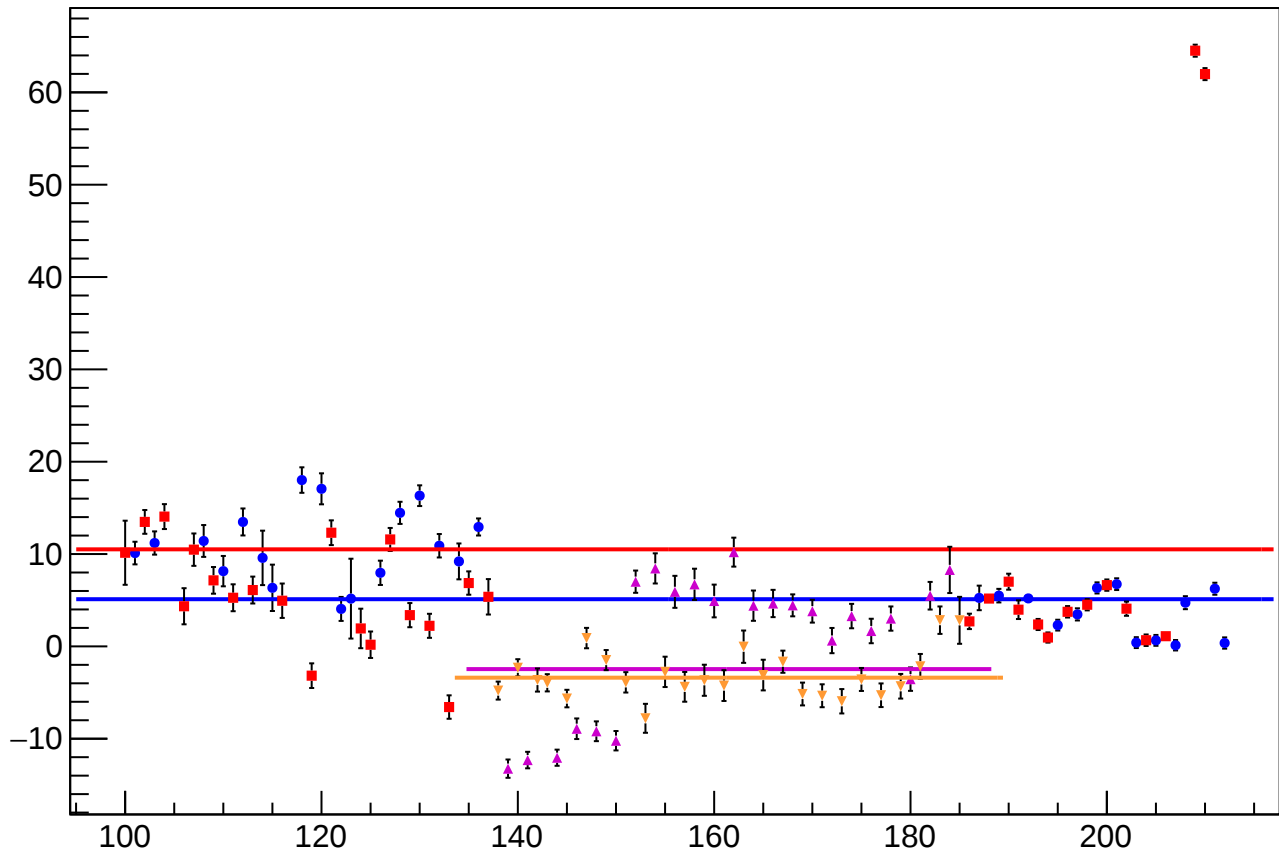
Right: 3394.970 $\pm$ 0.440 χ^2 /NDF: 5246252.7/62

In: 3859.051 $\pm$ 0.493 χ^2 /NDF:5056579.6/52

Out: 3973.002 $\pm$ 0.492 χ^2 /NDF:4639171.7/57

All: 3916.077 $\pm$ 0.348 χ^2 /NDF: 9722525.0/11

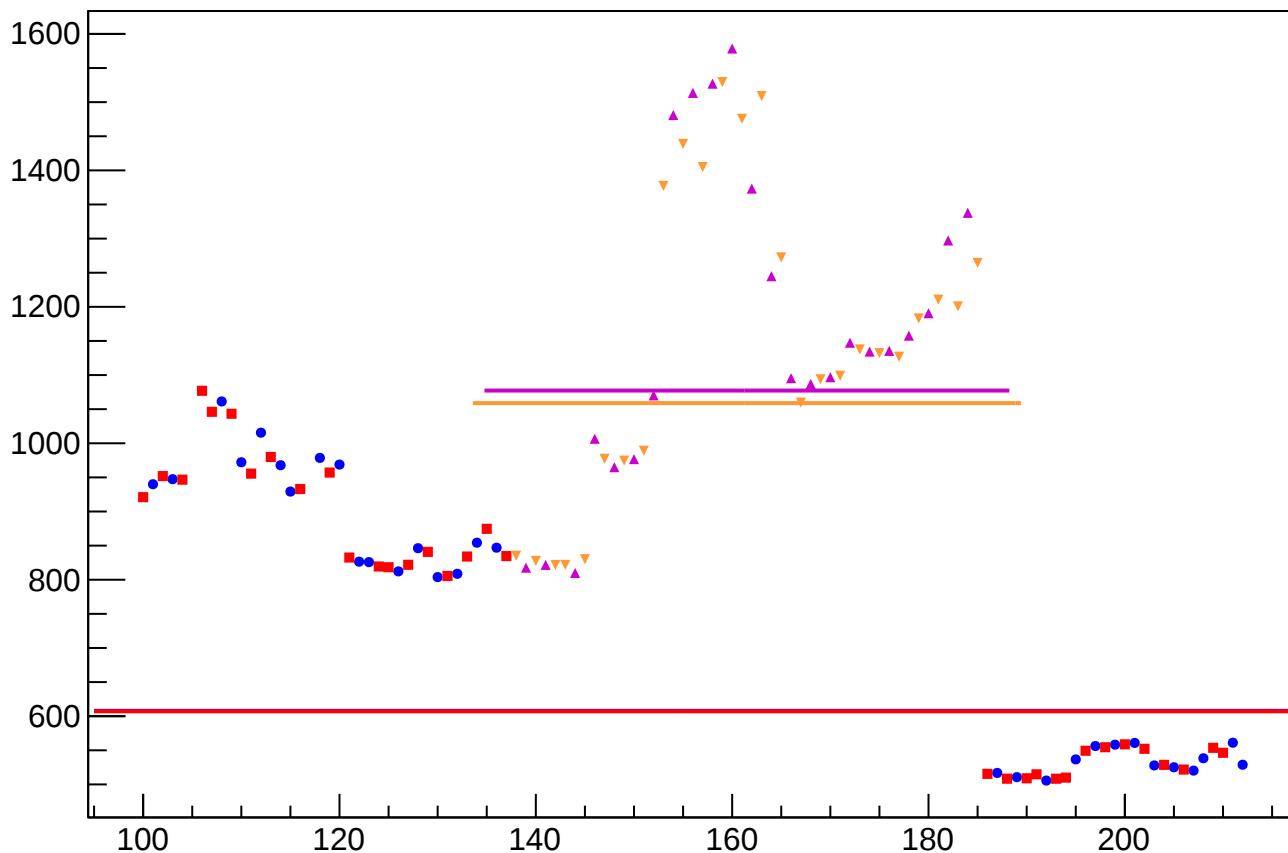
diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 5.109 ± 0.157 $\chi^2/\text{NDF}: 795.9/29$
 Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$
 Right Out: 10.510 ± 0.154 $\chi^2/\text{NDF}: 15220.9/32$
 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: 7.857 ± 0.110 $\chi^2/\text{NDF}: 16622.0/62$
 In: 3.143 ± 0.135 $\chi^2/\text{NDF}: 2330.8/52$
 Out: 6.741 ± 0.131 $\chi^2/\text{NDF}: 17511.7/57$
 All: 4.988 ± 0.094 $\chi^2/\text{NDF}: 20208.3/110$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 607.836 $\pm$ 0.111 χ^2 /NDF: 1822570.8/29

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 607.188 $\pm$ 0.109 χ^2 /NDF: 2041871.1/32

Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF:1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2 /NDF: 2688612.0/47

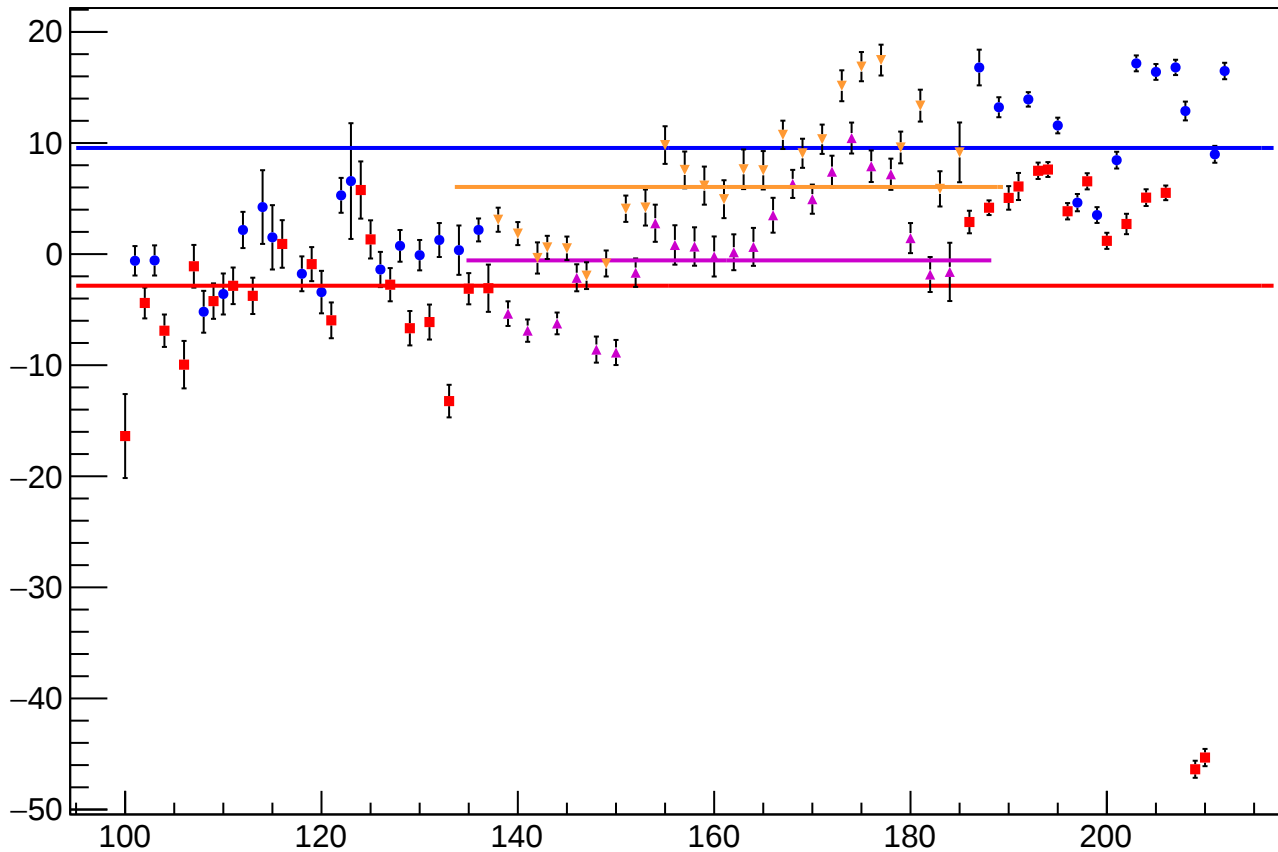
Right: 607.506 $\pm$ 0.078 χ^2 /NDF: 3864459.4/62

In: 729.768 $\pm$ 0.095 χ^2 /NDF:7771493.2/52

Out: 729.660 $\pm$ 0.093 χ^2 /NDF:8120519.5/57

All: 729.713 $\pm$ 0.067 χ^2 /NDF: 15892013.4/111

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 9.556 ± 0.187 $\chi^2/\text{NDF}: 1221.1/29$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: -2.845 ± 0.183 $\chi^2/\text{NDF}: 7606.1/32$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

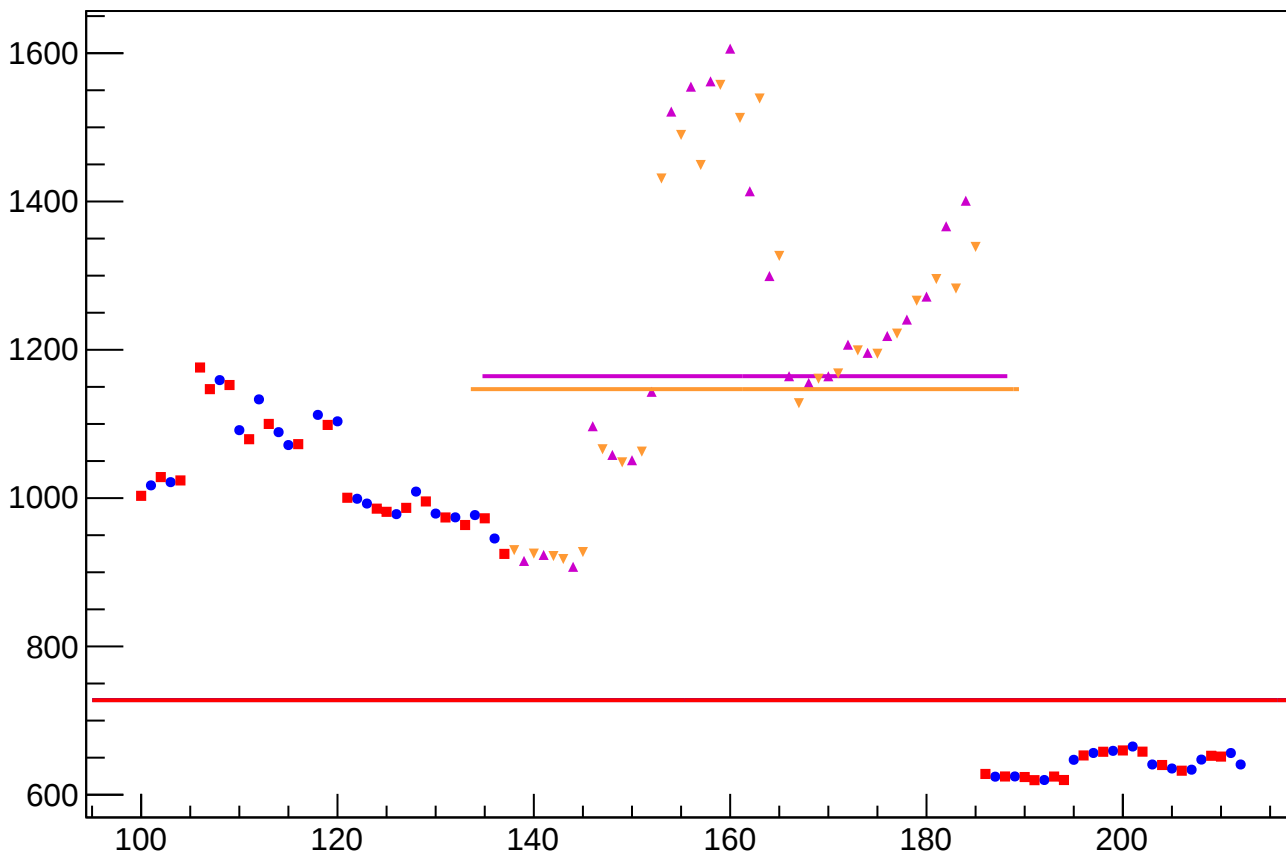
Right: 3.246 ± 0.131 $\chi^2/\text{NDF}: 11076.7/62$

In: 6.508 ± 0.156 $\chi^2/\text{NDF}: 2525.0/52$

Out: -0.065 ± 0.152 $\chi^2/\text{NDF}: 8772.9/57$

All: 3.136 ± 0.109 $\chi^2/\text{NDF}: 12209.6/110$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 727.675+/-0.132 χ^2/NDF : 1499233.2/29

Left Out: 1146.960+/-0.192 χ^2/NDF : 1045761.4/24

Right Out: 727.487+/-0.130 χ^2/NDF : 1664378.5/32

Left In: 1164.432+/-0.201 χ^2/NDF : 944112.0/22

Left: 1155.305+/-0.139 χ^2/NDF : 1993824.0/47

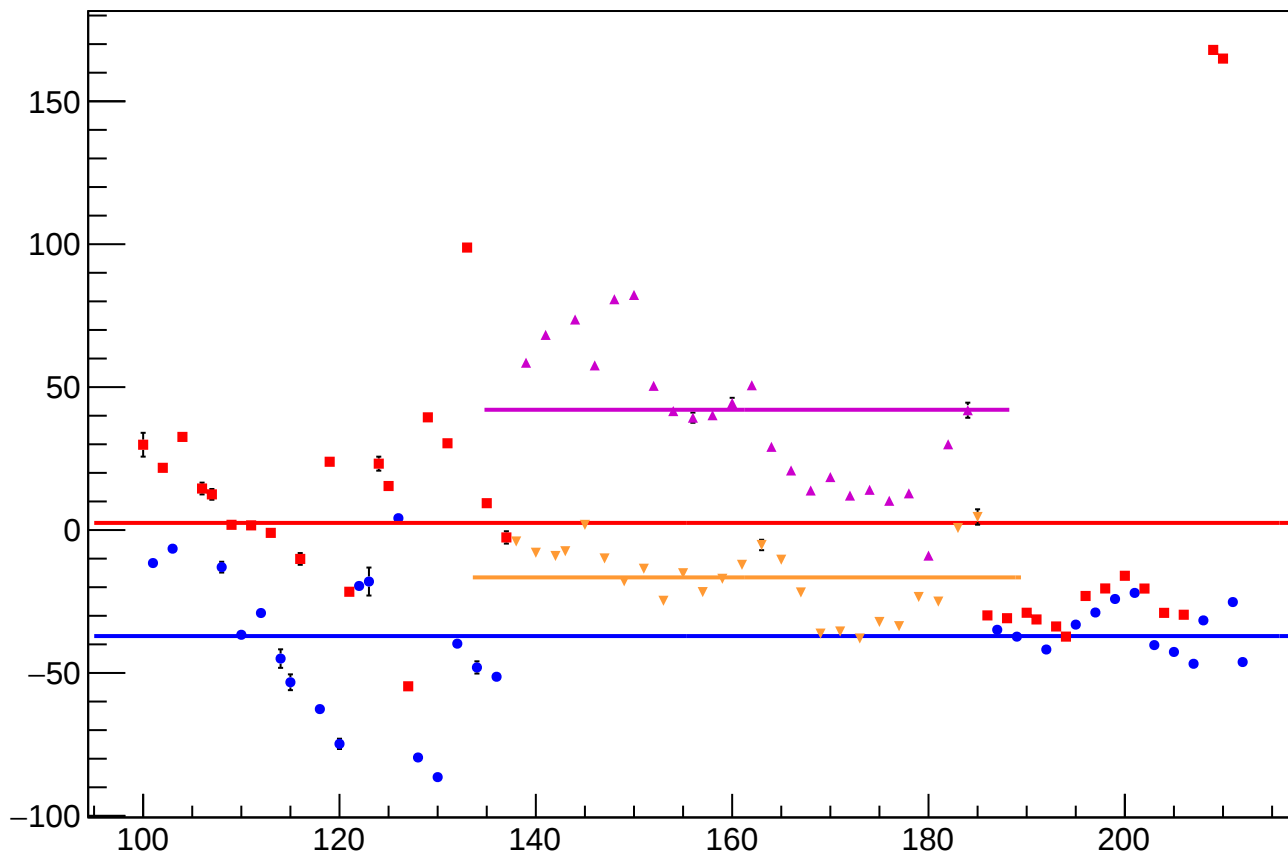
Right: 727.579+/-0.092 χ^2/NDF : 3163612.6/62

In: 859.196+/-0.110 χ^2/NDF : 5746253.8/52

Out: 858.655+/-0.107 χ^2/NDF : 5987293.2/57

All: 858.918+/-0.077 χ^2/NDF : 11733559.3/11

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.094 ± 0.184 $\chi^2/\text{NDF}: 6929.5/29$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 2.495 ± 0.180 $\chi^2/\text{NDF}: 116288.5/32$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

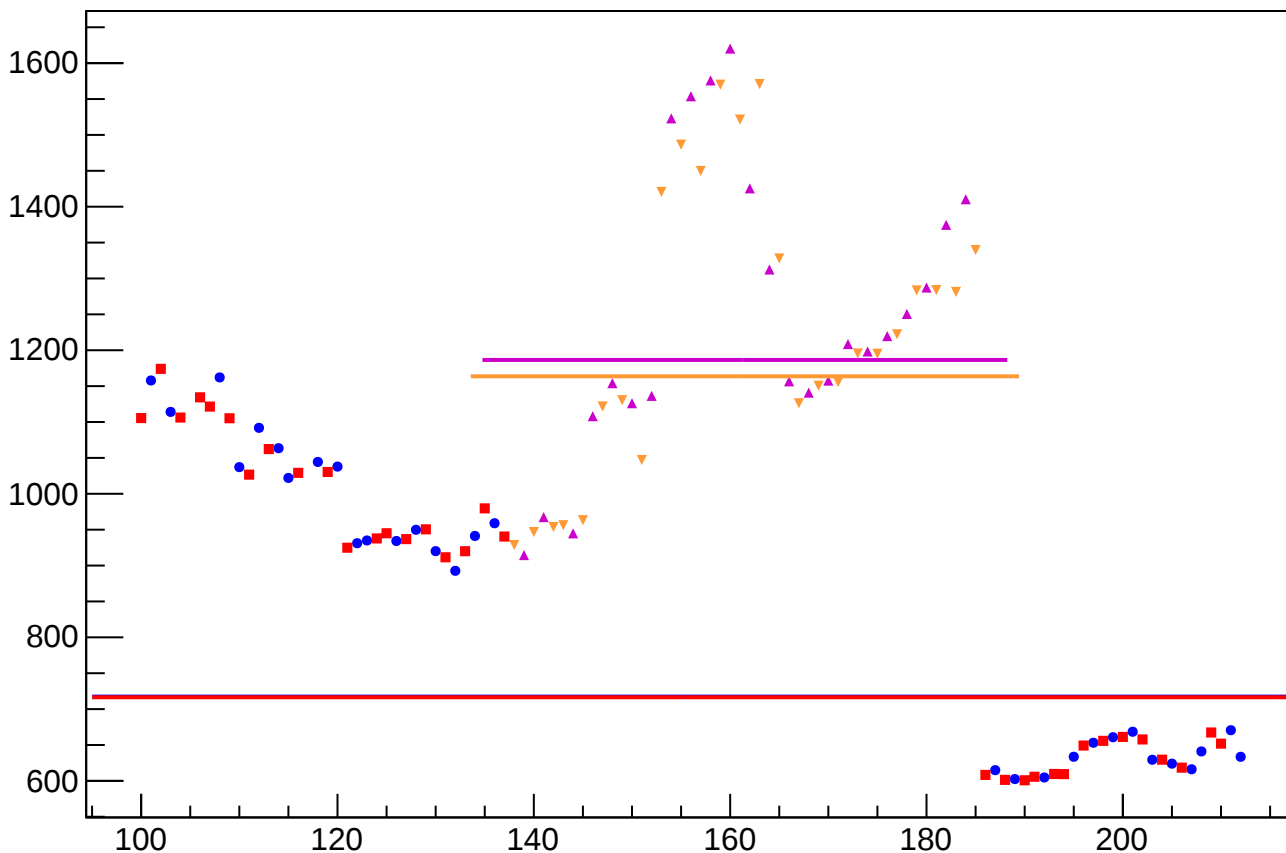
Right: -16.928 ± 0.129 $\chi^2/\text{NDF}: 146837.9/62$

In: -14.296 ± 0.155 $\chi^2/\text{NDF}: 68663.8/52$

Out: -3.234 ± 0.151 $\chi^2/\text{NDF}: 121574.2/57$

All: -8.612 ± 0.108 $\chi^2/\text{NDF}: 192850.7/110$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 717.403 $\pm$ 0.130 χ^2 /NDF: 1504696.8/29

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 716.505 $\pm$ 0.128 χ^2 /NDF: 1661960.9/32

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.525 $\pm$ 0.141 χ^2 /NDF: 1776015.7/47

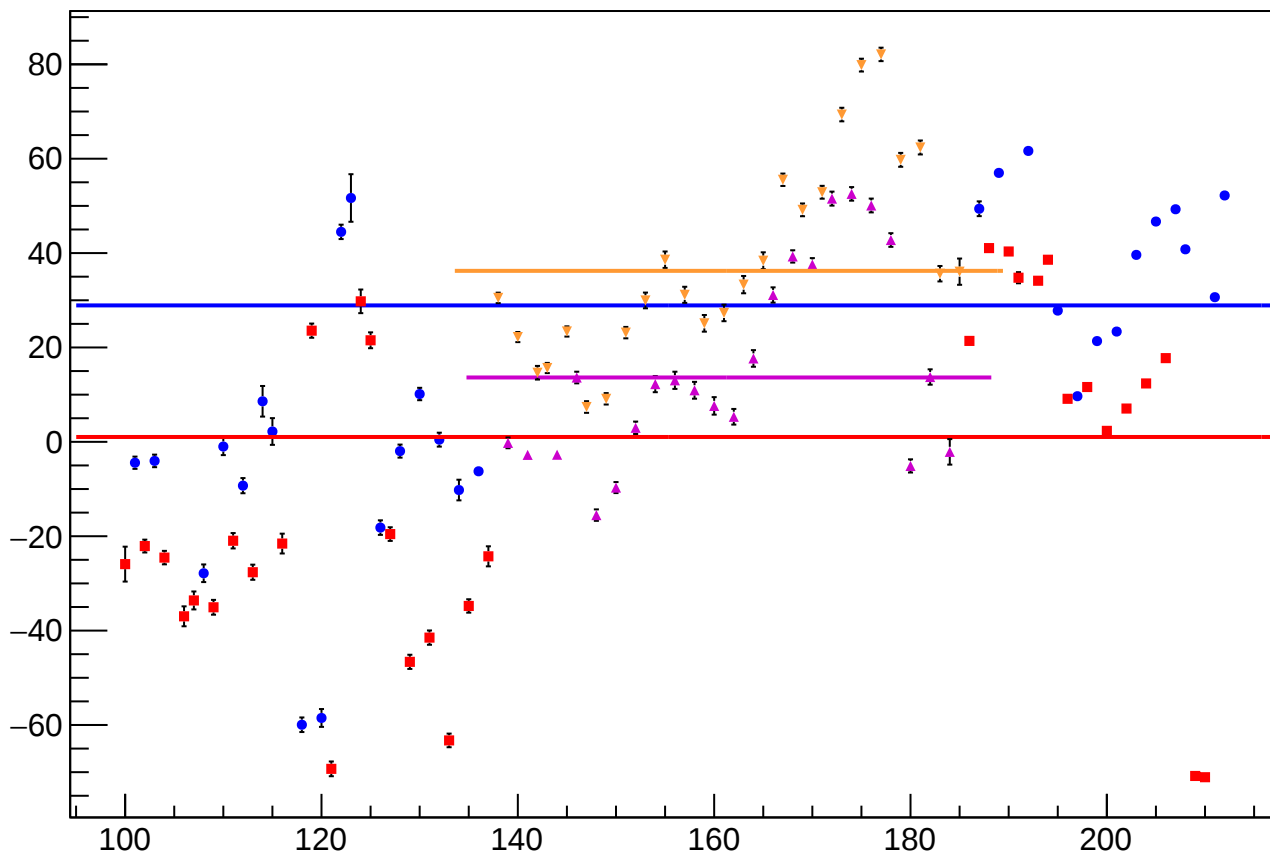
Right: 716.946 $\pm$ 0.091 χ^2 /NDF: 3166682.0/62

In: 852.477 $\pm$ 0.110 χ^2 /NDF: 6087345.9/52

Out: 850.902 $\pm$ 0.107 χ^2 /NDF: 6290209.9/57

All: 851.668 $\pm$ 0.076 χ^2 /NDF: 12377661.8/111

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 28.912 $\pm$ 0.182 χ^2/NDF : 20039.8/29

Left Out: 36.234 $\pm$ 0.280 χ^2/NDF : 5794.2/24

Right Out: 1.031 $\pm$ 0.178 χ^2/NDF : 41424.4/32

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

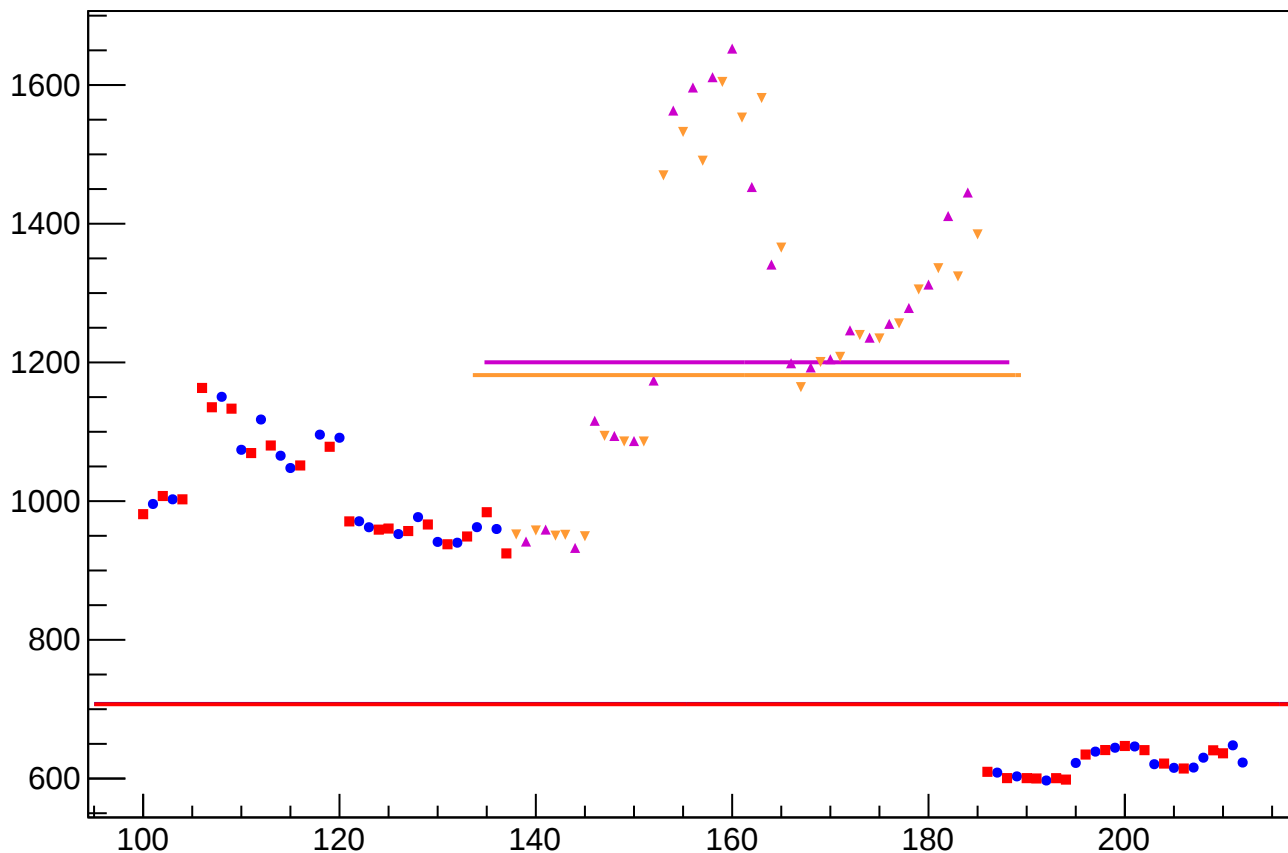
Right: 14.722 $\pm$ 0.127 χ^2/NDF : 73472.6/62

In: 24.672 $\pm$ 0.154 χ^2/NDF : 27183.2/52

Out: 11.193 $\pm$ 0.150 χ^2/NDF : 58472.7/57

All: 17.760 $\pm$ 0.108 χ^2/NDF : 89570.4/110

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 707.553 $\pm$ 0.128 χ^2 /NDF: 1569413.3/29

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 707.164 $\pm$ 0.126 χ^2 /NDF: 1739938.2/32

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

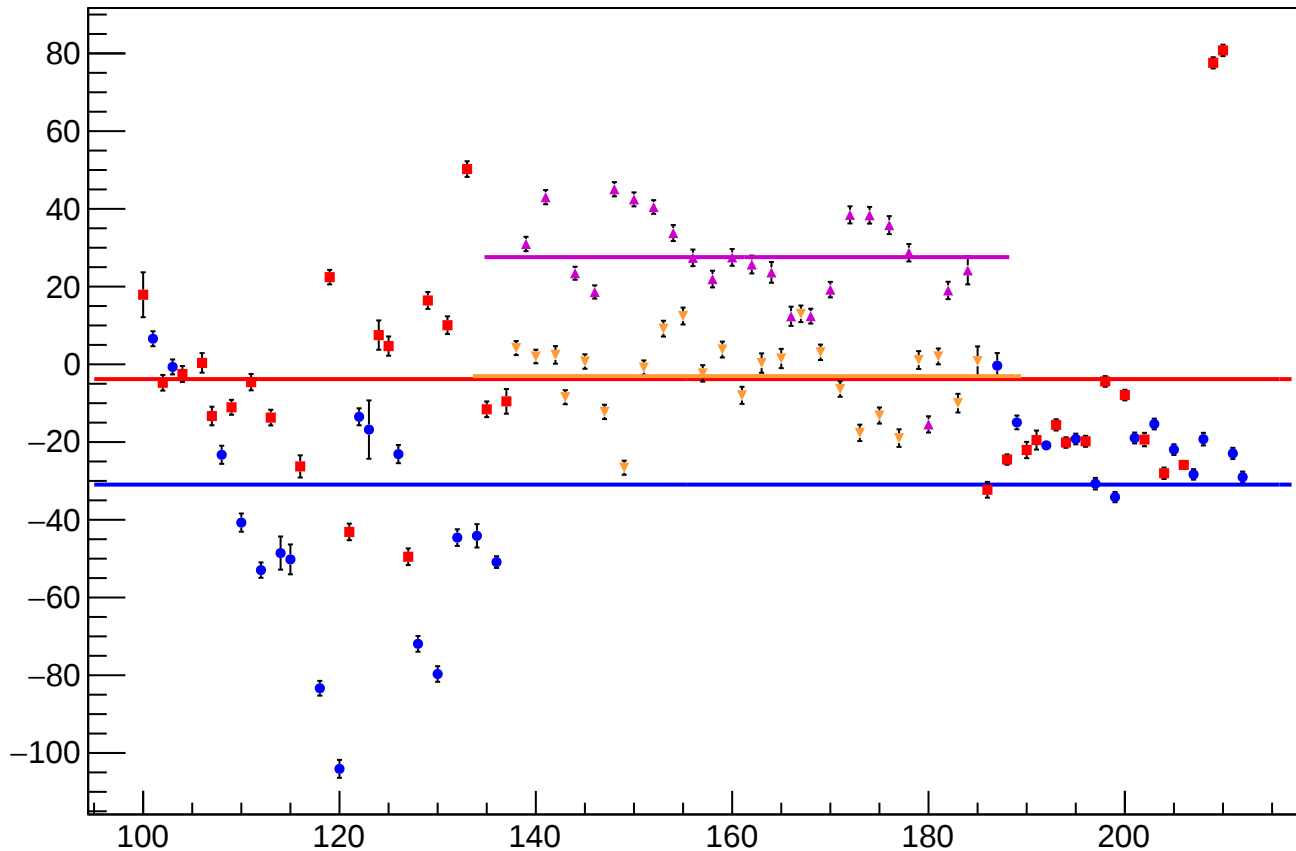
Right: 707.355 $\pm$ 0.090 χ^2 /NDF: 3309356.1/62

In: 844.316 $\pm$ 0.109 χ^2 /NDF:6597879.2/52

Out: 844.159 $\pm$ 0.106 χ^2 /NDF:6873919.3/57

All: 844.235 $\pm$ 0.076 χ^2 /NDF: 13471799.6/111

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -30.948 ± 0.325 $\chi^2/\text{NDF}: 4544.9/29$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -3.802 ± 0.319 $\chi^2/\text{NDF}: 10074.2/32$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

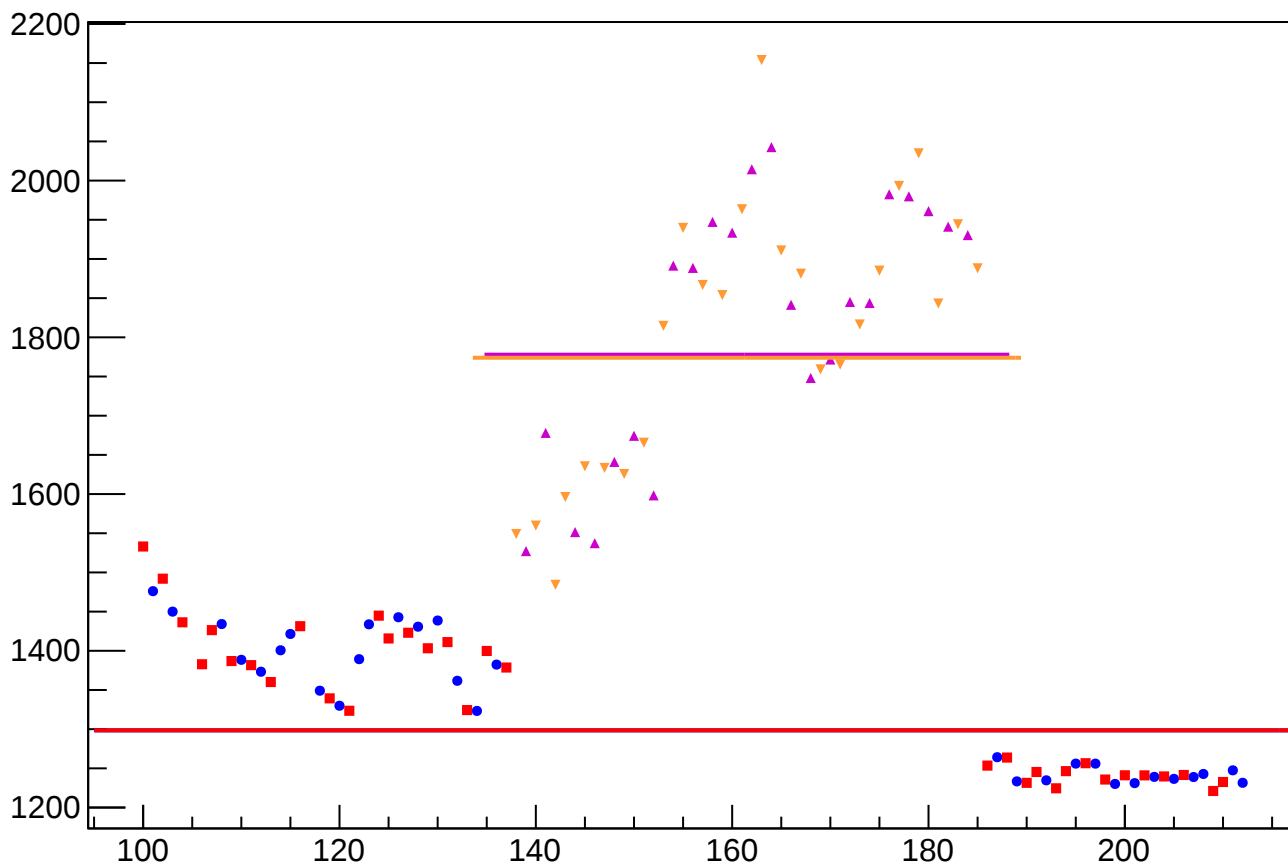
Right: -17.124 ± 0.228 $\chi^2/\text{NDF}: 18163.6/62$

In: -9.575 ± 0.259 $\chi^2/\text{NDF}: 17320.9/52$

Out: -3.518 ± 0.253 $\chi^2/\text{NDF}: 10631.9/57$

All: -6.474 ± 0.181 $\chi^2/\text{NDF}: 28232.3/110$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1298.447 $\pm$ 0.230 χ^2/NDF : 127224.7/29

Left Out: 1773.965 $\pm$ 0.294 χ^2/NDF : 313031.1/24

Right Out: 1298.621 $\pm$ 0.226 χ^2/NDF : 126006.1/32

Left In: 1777.884 $\pm$ 0.303 χ^2/NDF : 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2/NDF : 612631.3/47

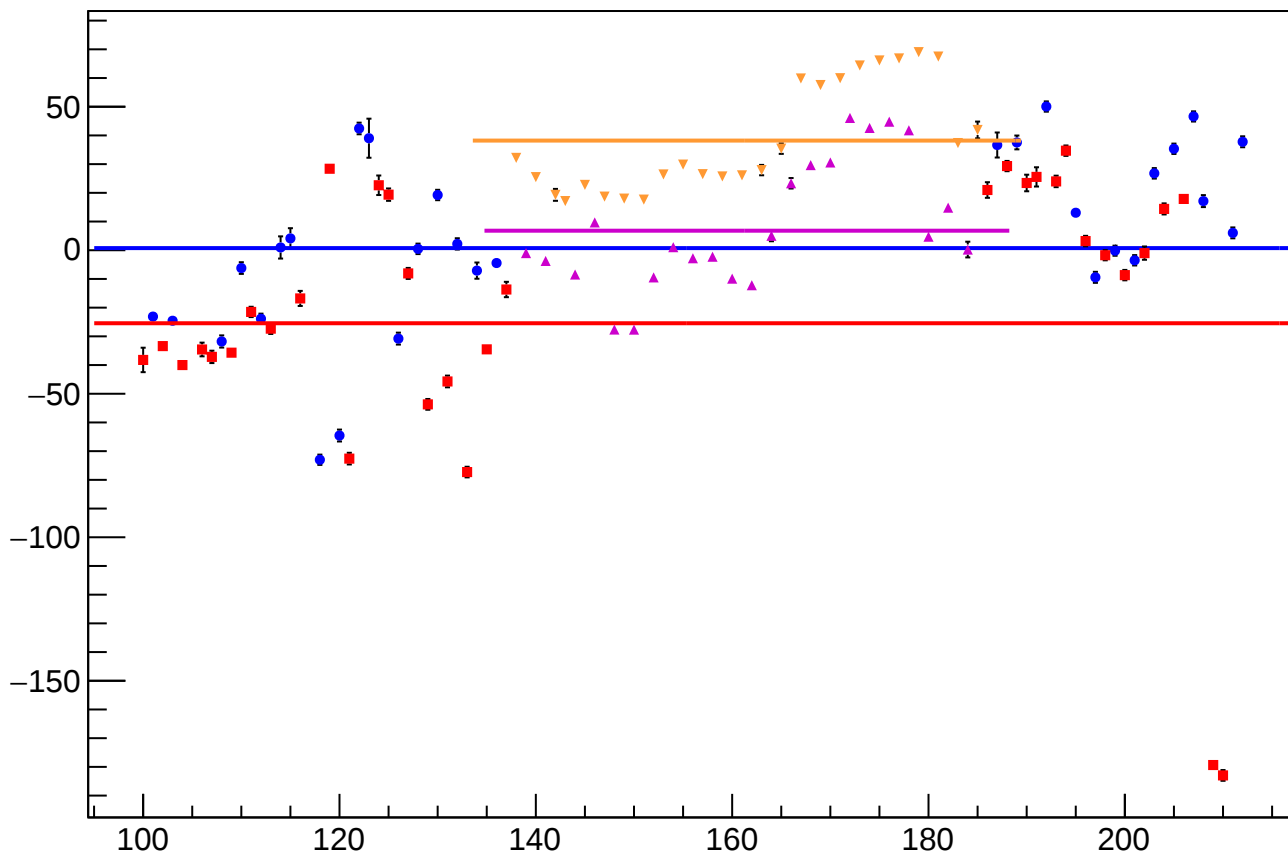
Right: 1298.535 $\pm$ 0.161 χ^2/NDF : 253231.1/62

In: 1473.521 $\pm$ 0.183 χ^2/NDF : 2012318.8/52

Out: 1475.411 $\pm$ 0.179 χ^2/NDF : 2086400.3/57

All: 1474.489 $\pm$ 0.128 χ^2/NDF : 4098773.5/11

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 0.744 ± 0.355 $\chi^2/\text{NDF}: 7325.0/29$

Left Out: 38.206 ± 0.323 $\chi^2/\text{NDF}: 3514.2/24$

Right Out: -25.436 ± 0.346 $\chi^2/\text{NDF}: 23720.7/32$

Left In: 6.808 ± 0.333 $\chi^2/\text{NDF}: 4494.5/22$

Left: 22.967 ± 0.232 $\chi^2/\text{NDF}: 12584.4/47$

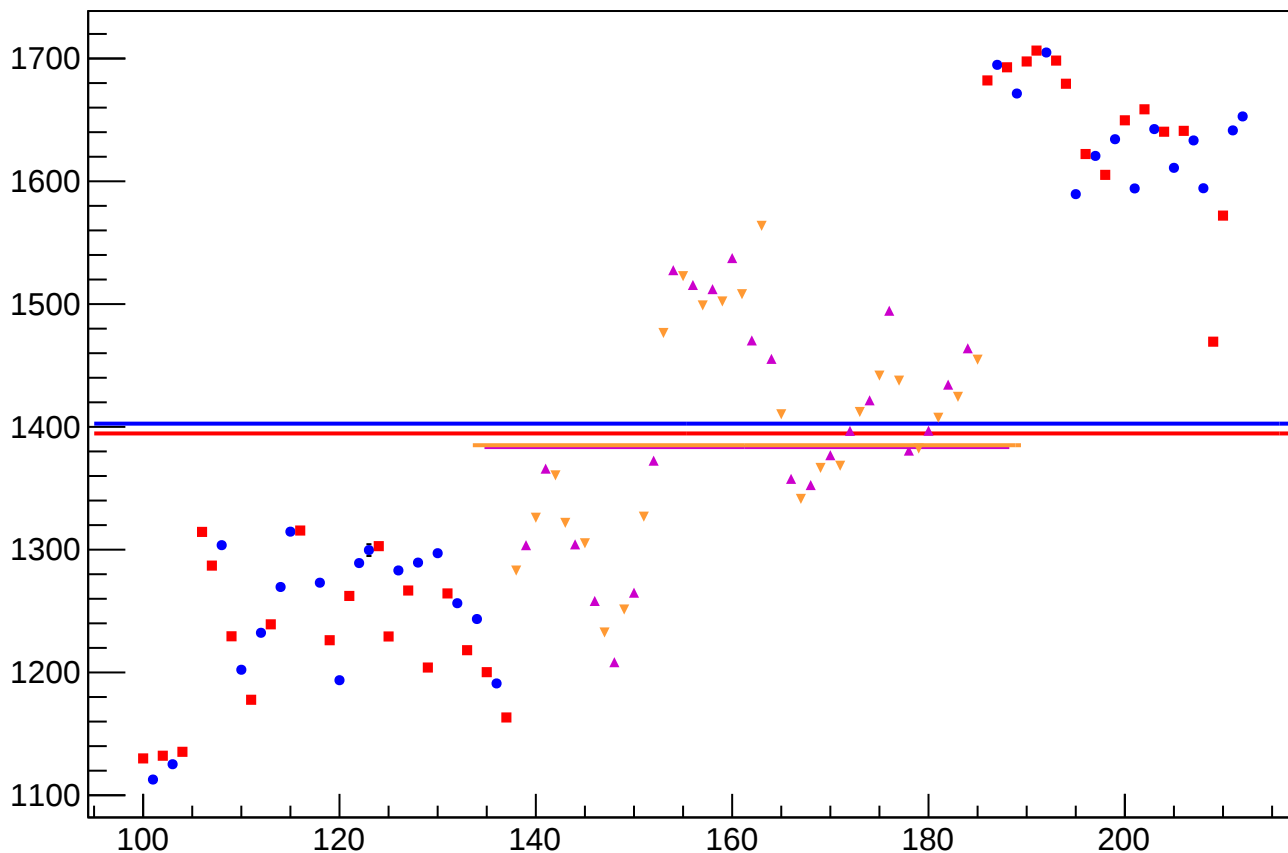
Right: -12.661 ± 0.248 $\chi^2/\text{NDF}: 33833.3/62$

In: 3.969 ± 0.243 $\chi^2/\text{NDF}: 11974.8/52$

Out: 8.568 ± 0.236 $\chi^2/\text{NDF}: 45272.9/57$

All: 6.330 ± 0.169 $\chi^2/\text{NDF}: 57432.0/110$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1402.635 ± 0.251 $\chi^2/\text{NDF}: 697918.2/29$

Left Out: 1385.063 ± 0.229 $\chi^2/\text{NDF}: 146001.5/24$

Right Out: 1394.646 ± 0.245 $\chi^2/\text{NDF}: 758588.6/32$

Left In: 1383.558 ± 0.235 $\chi^2/\text{NDF}: 154696.0/22$

Left: 1384.333 ± 0.164 $\chi^2/\text{NDF}: 300718.5/47$

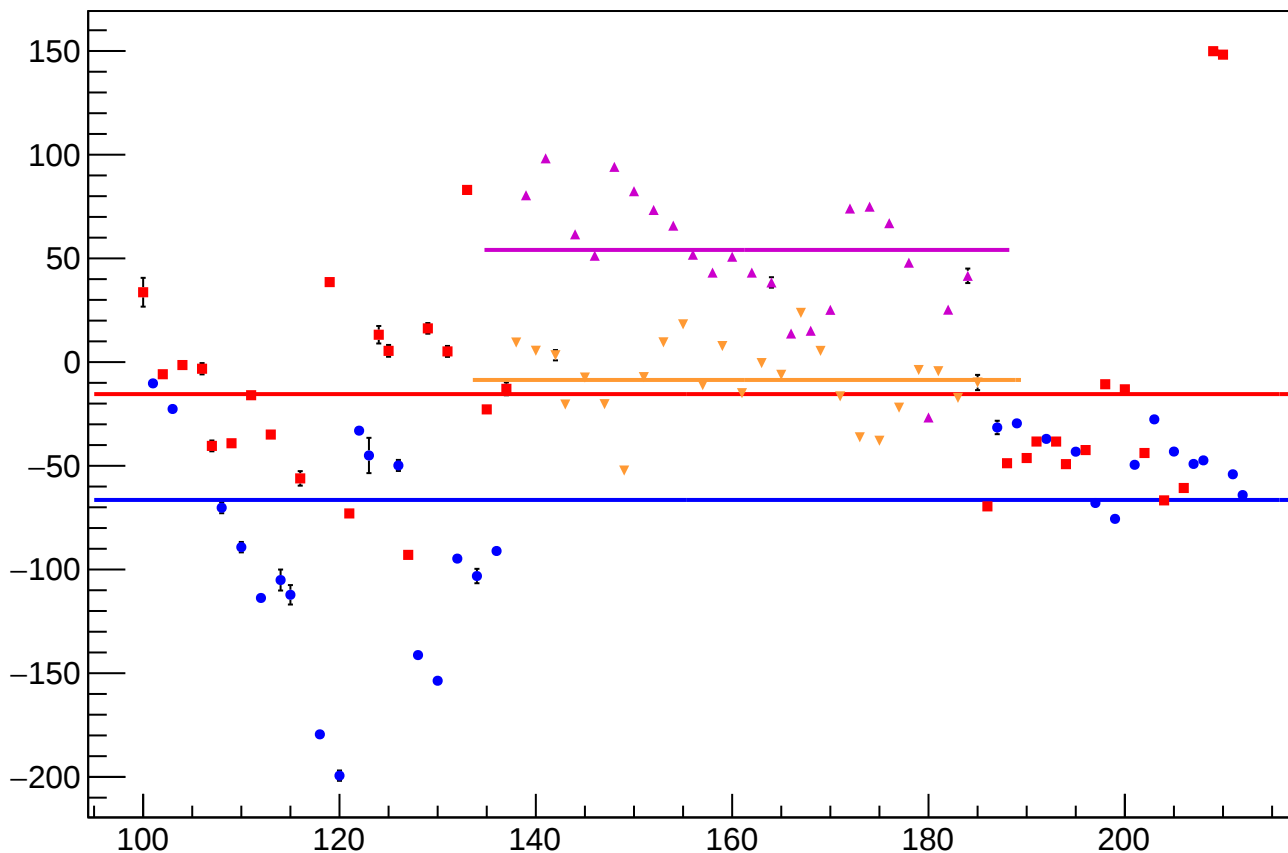
Right: 1398.544 ± 0.175 $\chi^2/\text{NDF}: 1457026.0/62$

In: 1392.491 ± 0.172 $\chi^2/\text{NDF}: 855688.3/52$

Out: 1389.526 ± 0.167 $\chi^2/\text{NDF}: 905408.0/57$

All: 1390.969 ± 0.120 $\chi^2/\text{NDF}: 1761249.4/111$

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -66.459 ± 0.365 χ^2/NDF : 13110.0/29

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -15.427 ± 0.354 χ^2/NDF : 28265.8/32

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

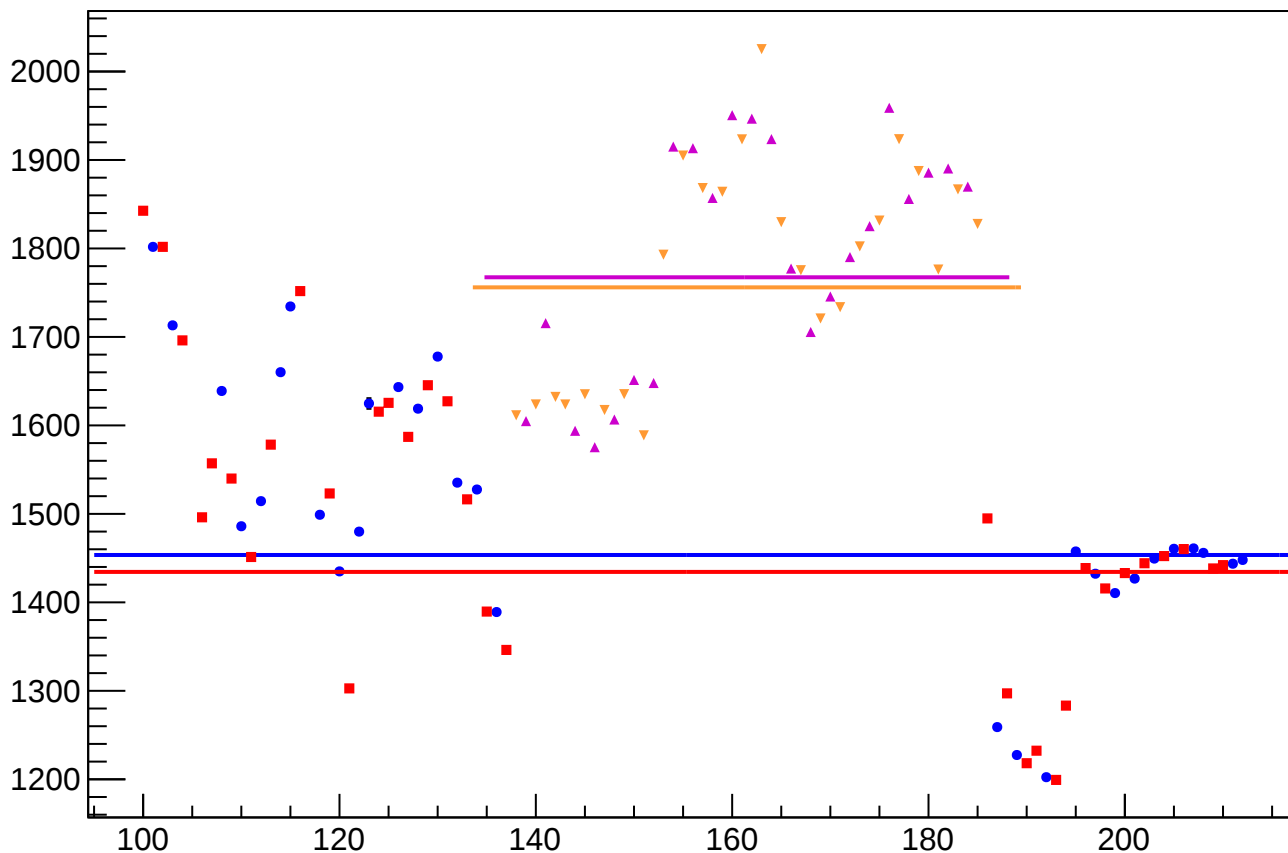
Right: -40.140 ± 0.254 χ^2/NDF : 51452.9/62

In: -15.364 ± 0.277 χ^2/NDF : 64044.6/52

Out: -12.518 ± 0.268 χ^2/NDF : 30354.9/57

All: -13.893 ± 0.193 χ^2/NDF : 94454.1/110

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.541 $\pm$ 0.258 χ^2/NDF : 261673.3/29

Left Out: 1756.034 $\pm$ 0.290 χ^2/NDF : 175762.3/24

Right Out: 1434.414 $\pm$ 0.250 χ^2/NDF : 308793.1/32

Left In: 1767.410 $\pm$ 0.301 χ^2/NDF : 187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2/NDF : 364461.2/47

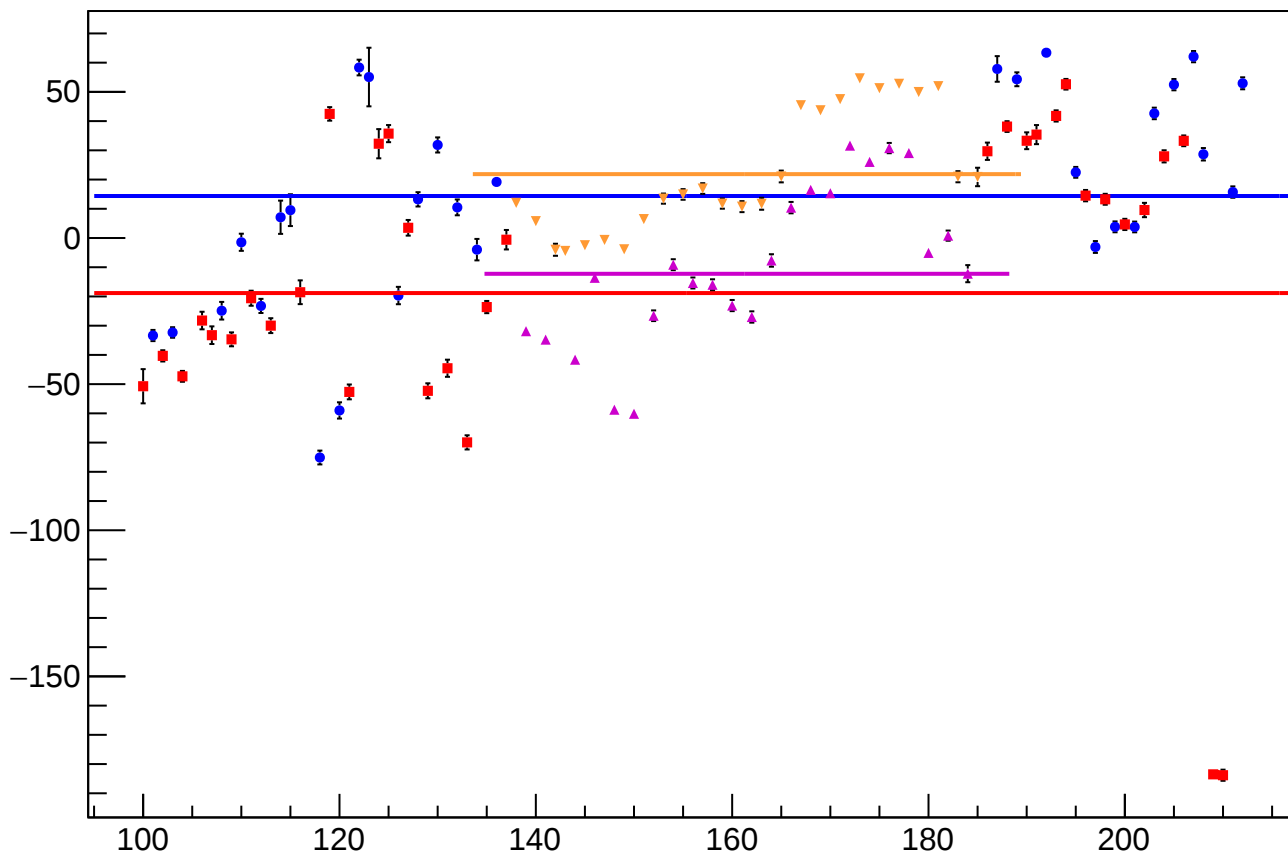
Right: 1443.676 $\pm$ 0.180 χ^2/NDF : 573297.6/62

In: 1586.578 $\pm$ 0.196 χ^2/NDF : 1076206.6/52

Out: 1571.587 $\pm$ 0.189 χ^2/NDF : 1189590.4/57

All: 1578.830 $\pm$ 0.136 χ^2/NDF : 2268822.4/11

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 14.372 ± 0.417 $\chi^2/\text{NDF}: 7311.9/29$

Left Out: 21.856 ± 0.335 $\chi^2/\text{NDF}: 4110.5/24$

Right Out: -18.836 ± 0.405 $\chi^2/\text{NDF}: 26651.8/32$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.391 ± 0.241 $\chi^2/\text{NDF}: 15885.7/47$

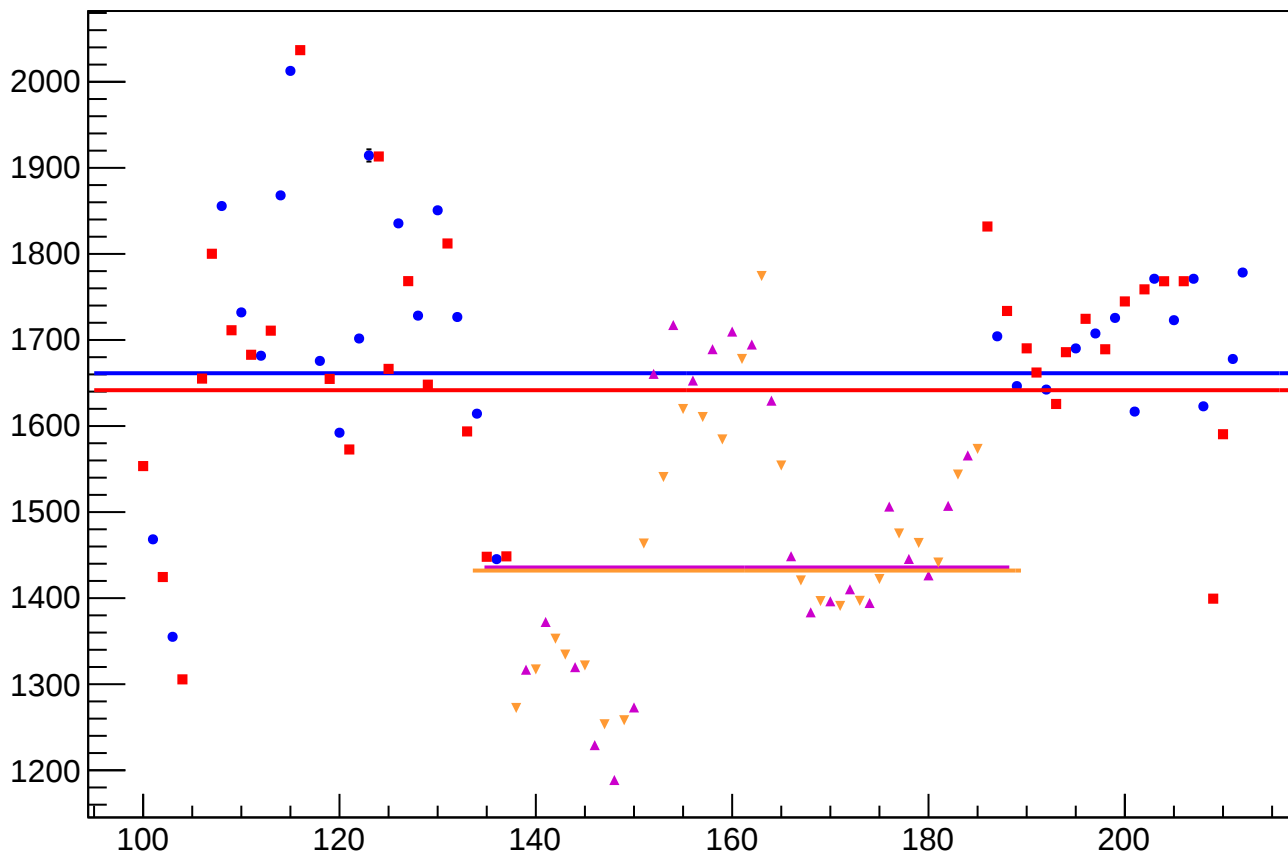
Right: -2.735 ± 0.291 $\chi^2/\text{NDF}: 37224.9/62$

In: -1.365 ± 0.267 $\chi^2/\text{NDF}: 16498.0/52$

Out: 5.302 ± 0.258 $\chi^2/\text{NDF}: 36753.3/57$

All: 2.077 ± 0.186 $\chi^2/\text{NDF}: 53573.6/110$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1661.363 $\pm$ 0.295 χ^2 /NDF: 187425.1/29

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1641.636 $\pm$ 0.286 χ^2 /NDF: 254779.5/32

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

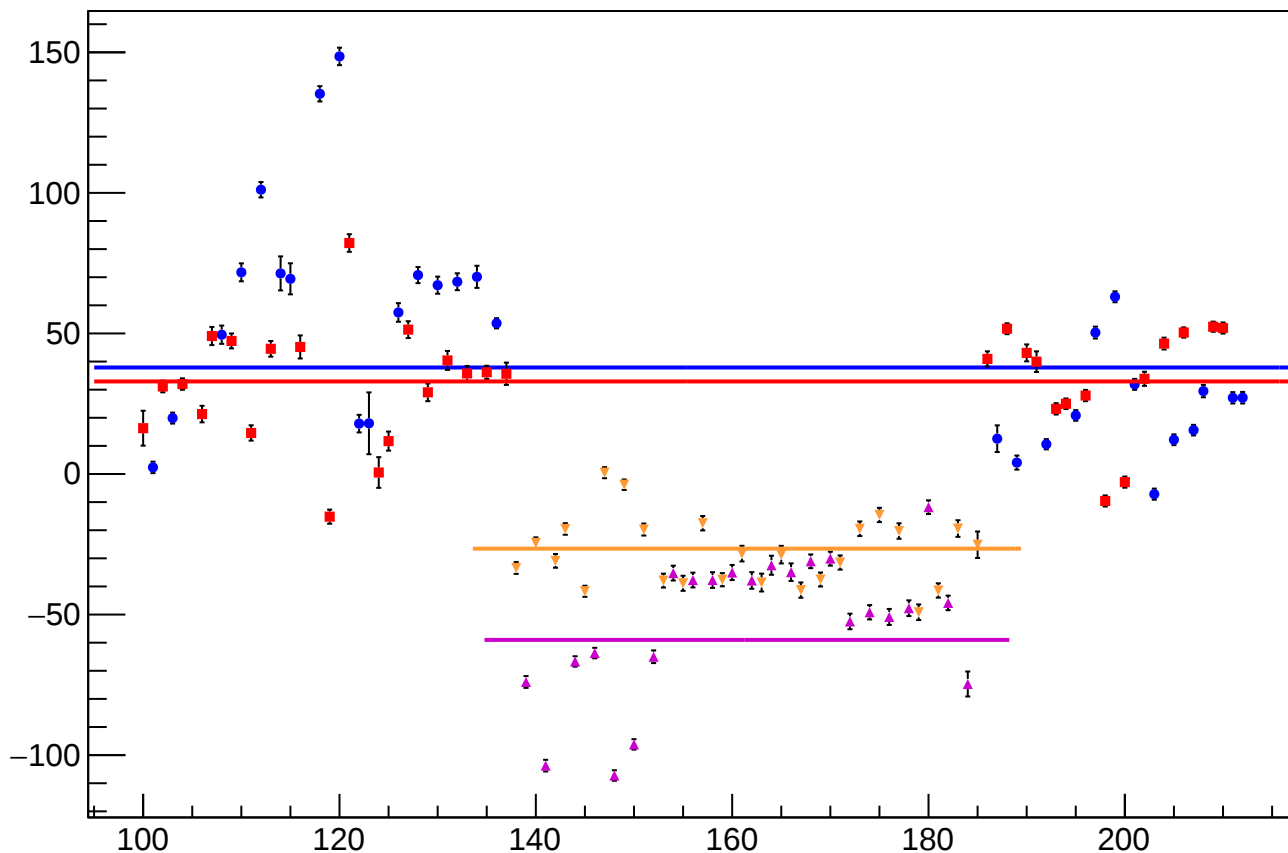
Right: 1651.200 $\pm$ 0.205 χ^2 /NDF: 444506.2/62

In: 1527.914 $\pm$ 0.189 χ^2 /NDF: 954088.7/52

Out: 1517.317 $\pm$ 0.183 χ^2 /NDF: 869965.4/57

All: 1522.442 $\pm$ 0.131 χ^2 /NDF: 1825682.7/111

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 37.889 ± 0.444 $\chi^2/\text{NDF}: 5838.2/29$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 32.930 ± 0.432 $\chi^2/\text{NDF}: 2183.4/32$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

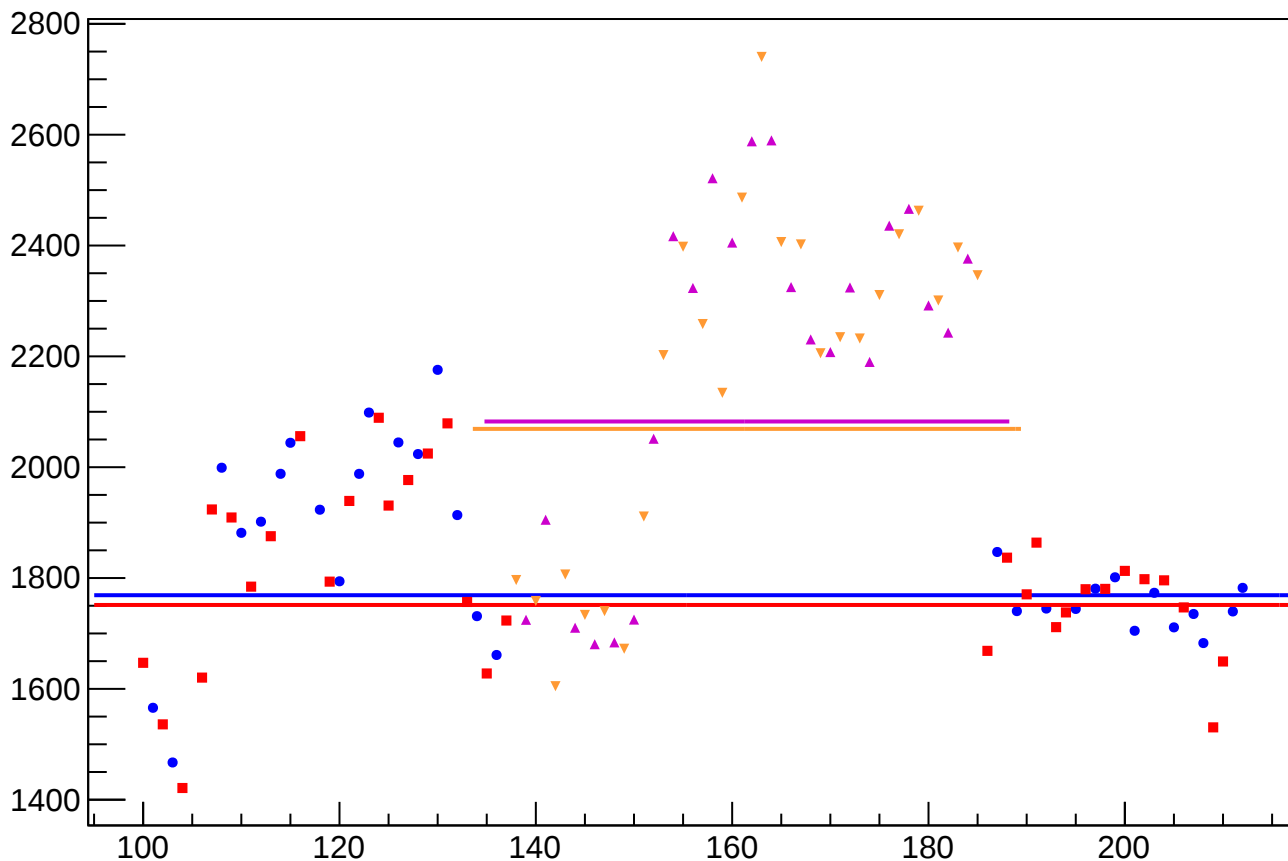
Right: 35.338 ± 0.310 $\chi^2/\text{NDF}: 8085.6/62$

In: -4.254 ± 0.334 $\chi^2/\text{NDF}: 29312.5/52$

Out: 6.813 ± 0.323 $\chi^2/\text{NDF}: 11240.0/57$

All: 1.459 ± 0.232 $\chi^2/\text{NDF}: 41119.4/110$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1769.024 ± 0.314 $\chi^2/\text{NDF}: 198329.8/29$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1751.418 ± 0.305 $\chi^2/\text{NDF}: 227581.9/32$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

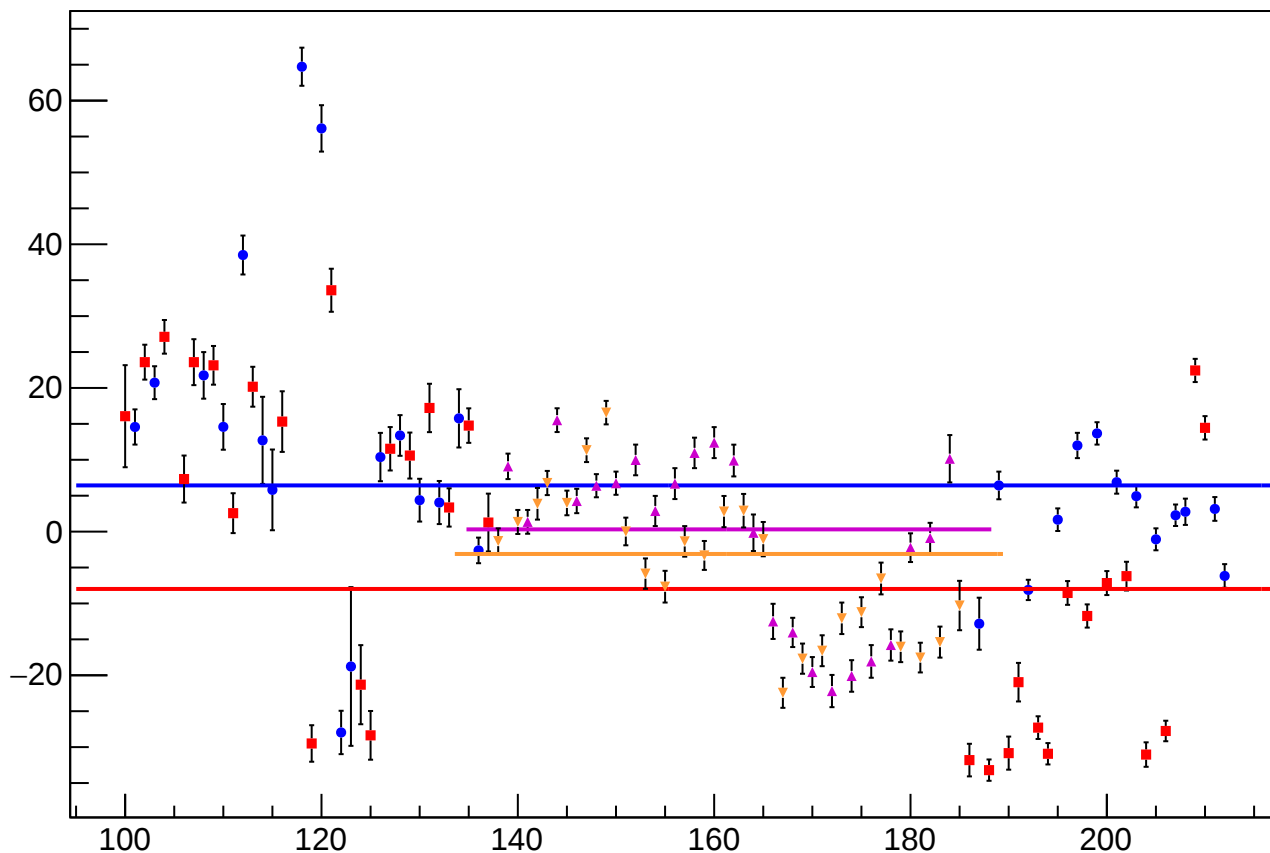
Right: 1759.967 ± 0.219 $\chi^2/\text{NDF}: 427527.4/62$

In: 1905.354 ± 0.236 $\chi^2/\text{NDF}: 1416676.4/52$

Out: 1890.921 ± 0.229 $\chi^2/\text{NDF}: 1502458.5/57$

All: 1897.903 ± 0.164 $\chi^2/\text{NDF}: 2921063.2/111$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 6.431 ± 0.389 $\chi^2/\text{NDF}: 1388.8/29$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -7.982 ± 0.382 $\chi^2/\text{NDF}: 3189.3/32$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

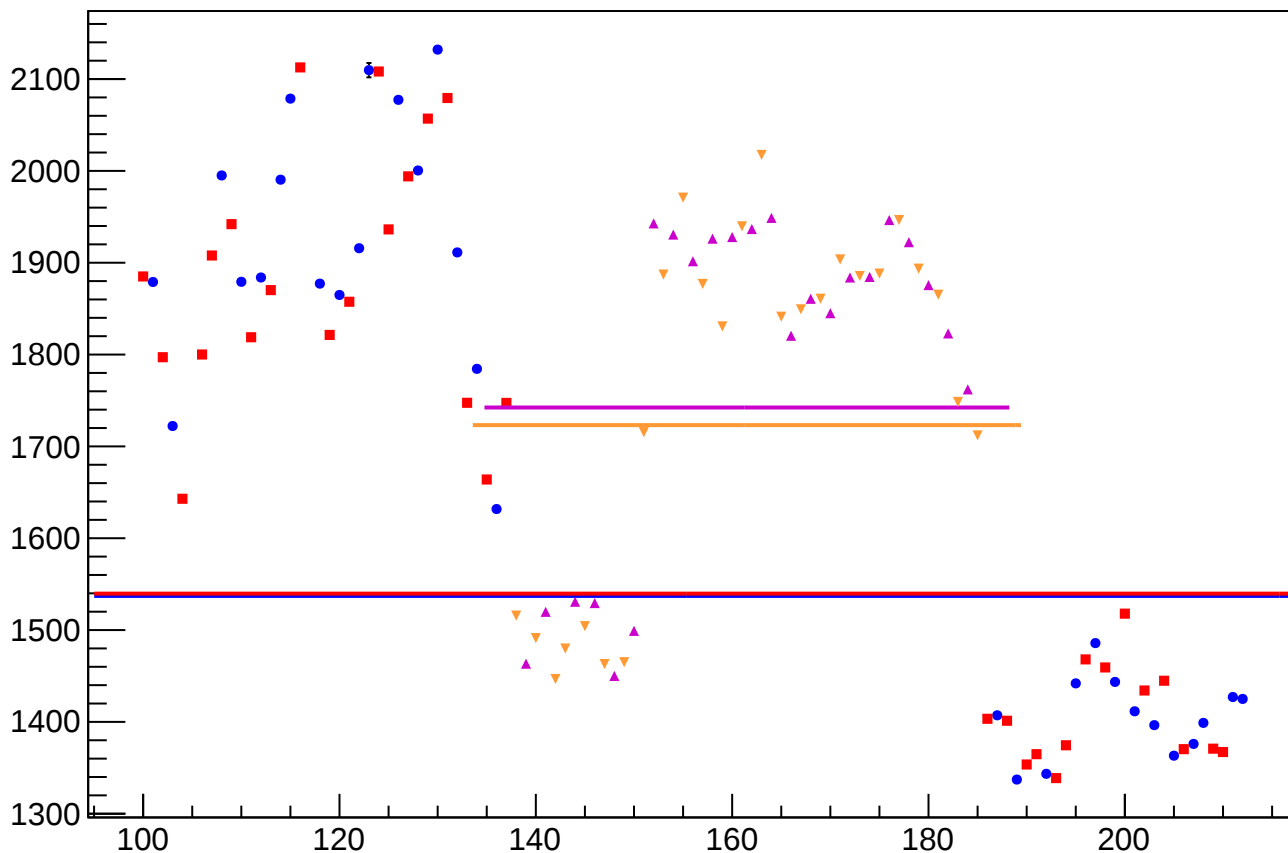
Right: -0.905 ± 0.273 $\chi^2/\text{NDF}: 5277.2/62$

In: 3.614 ± 0.286 $\chi^2/\text{NDF}: 2239.3/52$

Out: -5.685 ± 0.278 $\chi^2/\text{NDF}: 3909.8/57$

All: -1.168 ± 0.199 $\chi^2/\text{NDF}: 6693.8/110$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1537.209+/-0.275 χ^2/NDF : 682193.1/29

Left Out: 1723.168+/-0.286 χ^2/NDF : 477441.1/24

Right Out: 1539.655+/-0.270 χ^2/NDF : 664015.2/32

Left In: 1742.354+/-0.298 χ^2/NDF : 435841.5/22

Left: 1732.370+/-0.206 χ^2/NDF : 915443.3/47

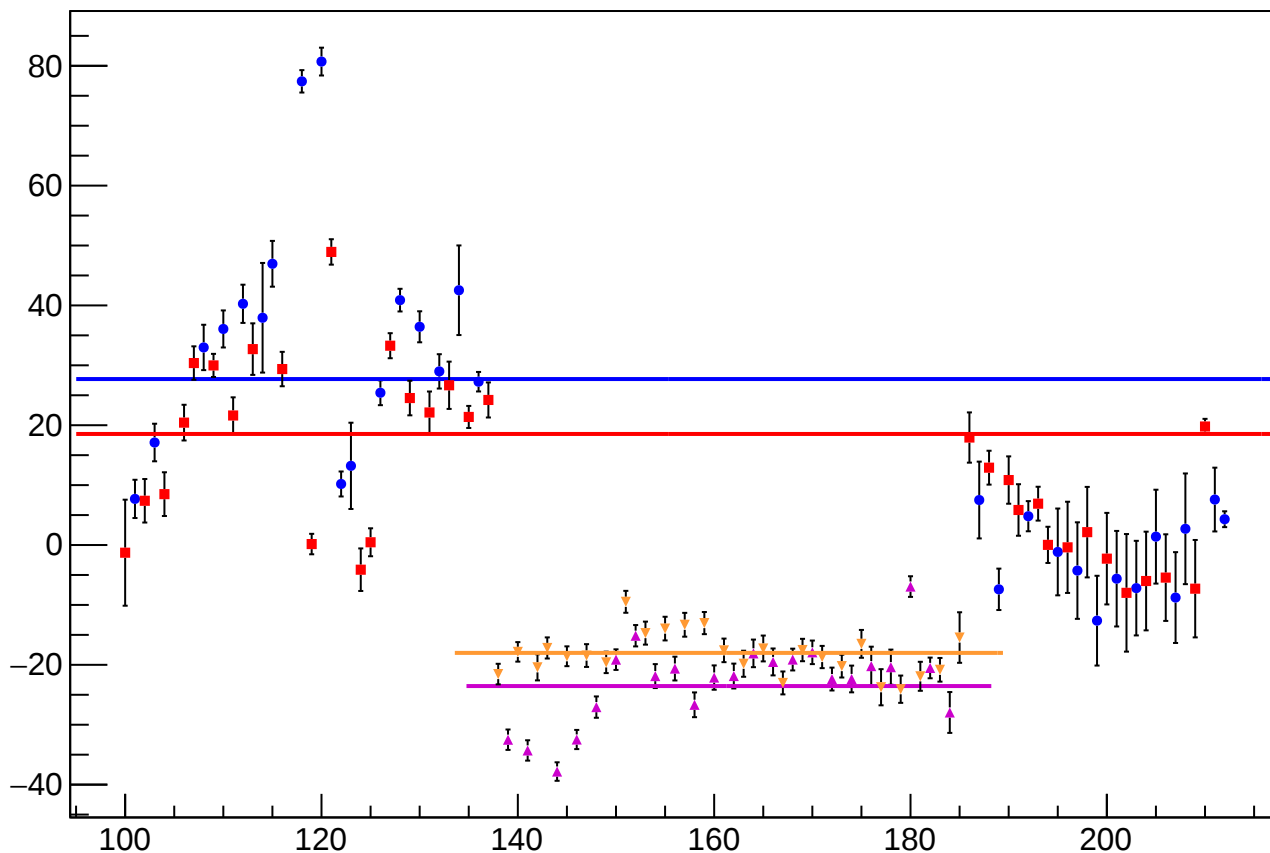
Right: 1538.454+/-0.193 χ^2/NDF : 1346248.6/62

In: 1631.650+/-0.202 χ^2/NDF : 1374202.5/52

Out: 1626.225+/-0.196 χ^2/NDF : 1359194.5/57

All: 1628.860+/-0.141 χ^2/NDF : 2733767.8/111

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 27.708 $\pm$ 0.538 χ^2/NDF : 2131.7/29

Left Out: -18.007 $\pm$ 0.397 χ^2/NDF : 73.8/24

Right Out: 18.541 $\pm$ 0.503 χ^2/NDF : 716.3/32

Left In: -23.544 $\pm$ 0.406 χ^2/NDF : 346.7/22

Left: -20.714 $\pm$ 0.284 χ^2/NDF : 515.7/47

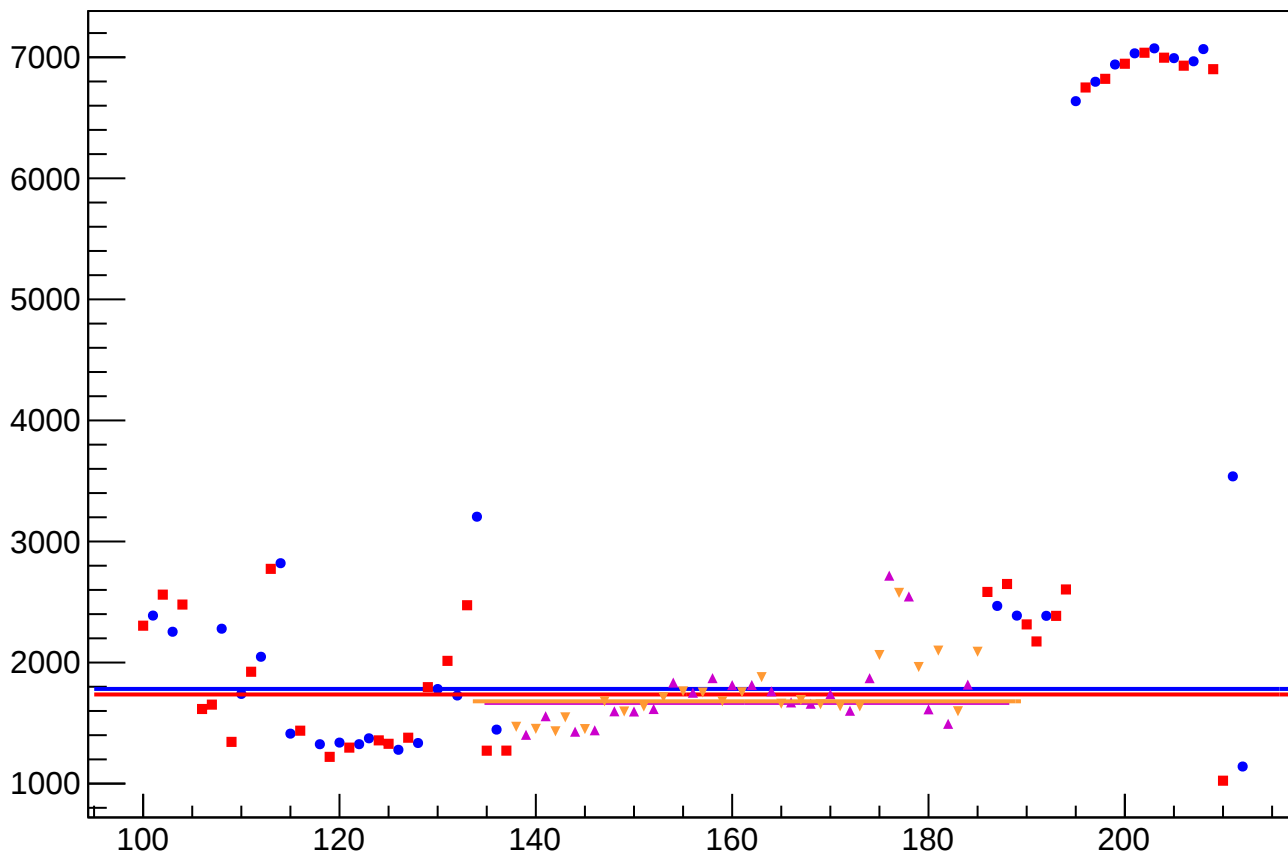
Right: 22.817 $\pm$ 0.368 χ^2/NDF : 3002.8/62

In: -4.974 $\pm$ 0.324 χ^2/NDF : 8262.2/52

Out: -3.999 $\pm$ 0.312 χ^2/NDF : 4043.5/57

All: -4.468 $\pm$ 0.225 χ^2/NDF : 12310.3/110

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1782.089 $\pm$ 0.381 χ^2 /NDF: 8638101.9/29

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1736.293 $\pm$ 0.356 χ^2 /NDF: 8284739.3/32

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

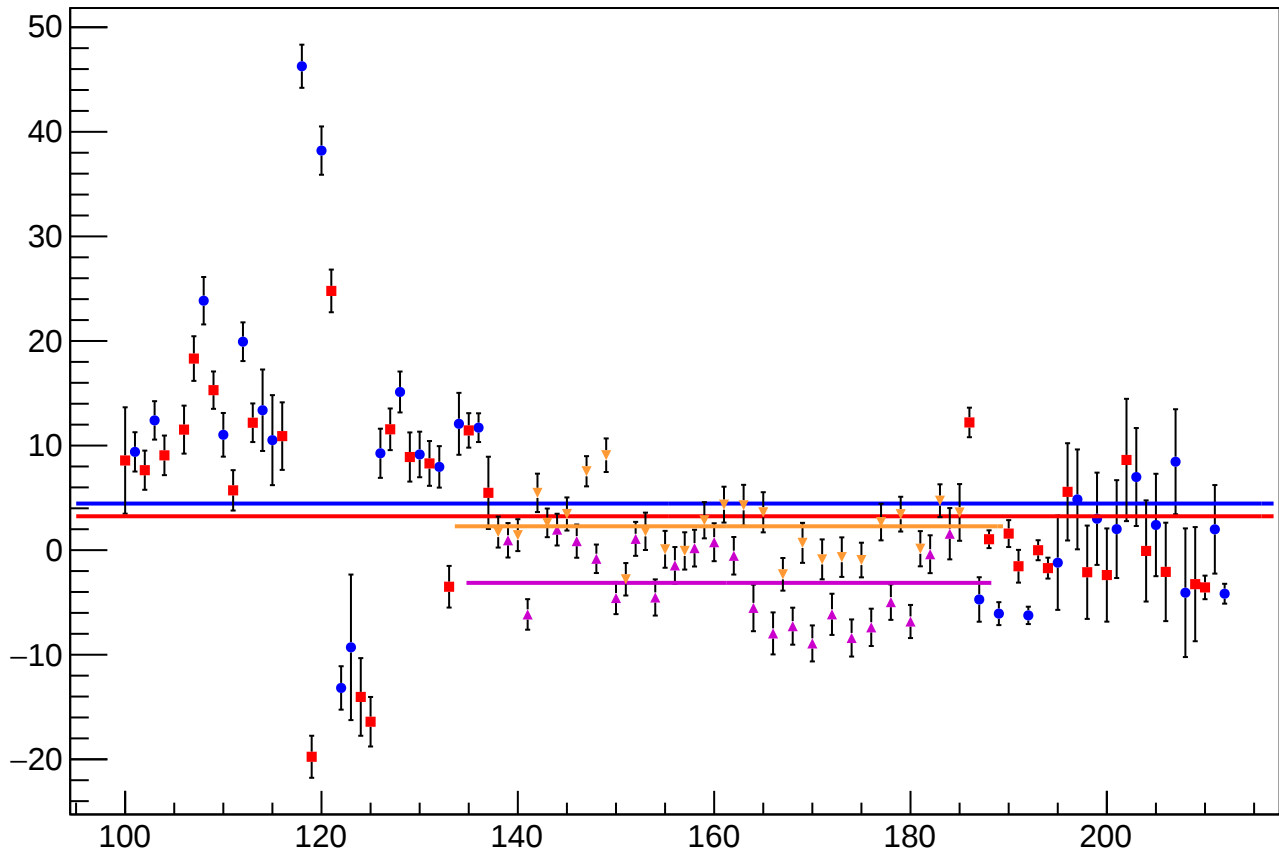
Right: 1757.655 $\pm$ 0.260 χ^2 /NDF: 16930568.7/62

In: 1708.584 $\pm$ 0.229 χ^2 /NDF: 9347605.4/52

Out: 1701.461 $\pm$ 0.220 χ^2 /NDF: 8823073.1/57

All: 1704.884 $\pm$ 0.159 χ^2 /NDF: 18171180.9/100

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 4.455 $\pm$ 0.361 χ^2/NDF : 1326.8/29

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.238 $\pm$ 0.314 χ^2/NDF : 691.6/32

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

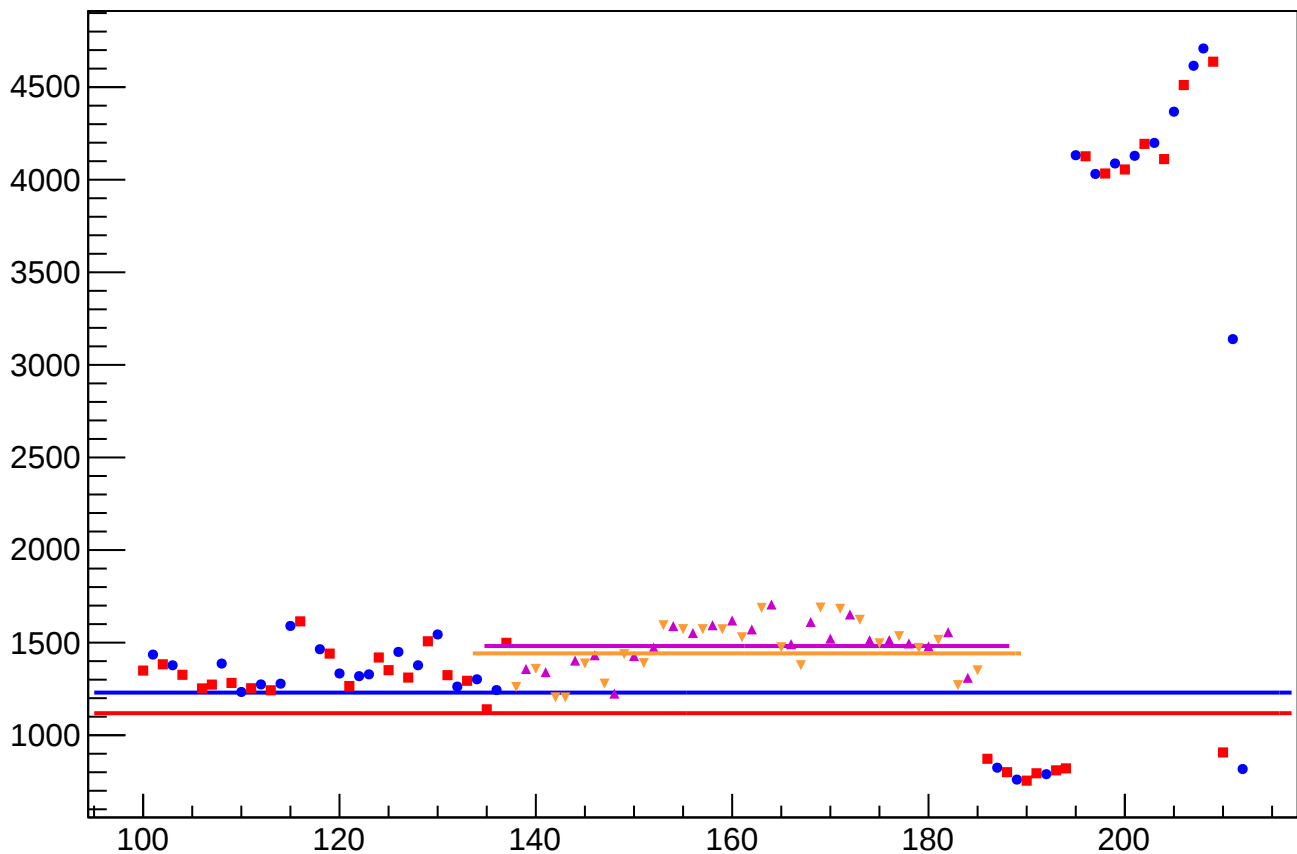
Right: 3.761 $\pm$ 0.237 χ^2/NDF : 2024.8/62

In: 0.623 $\pm$ 0.254 χ^2/NDF : 1652.6/52

Out: 2.795 $\pm$ 0.230 χ^2/NDF : 771.5/57

All: 1.817 $\pm$ 0.171 χ^2/NDF : 2464.1/110

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1230.139+/-0.256 χ^2/NDF : 8252991.6/29

Left Out: 1441.951+/-0.239 χ^2/NDF : 370617.4/24

Right Out: 1118.974+/-0.222 χ^2/NDF : 7185395.6/32

Left In: 1481.695+/-0.253 χ^2/NDF : 208470.6/22

Left: 1460.716+/-0.174 χ^2/NDF : 592125.7/47

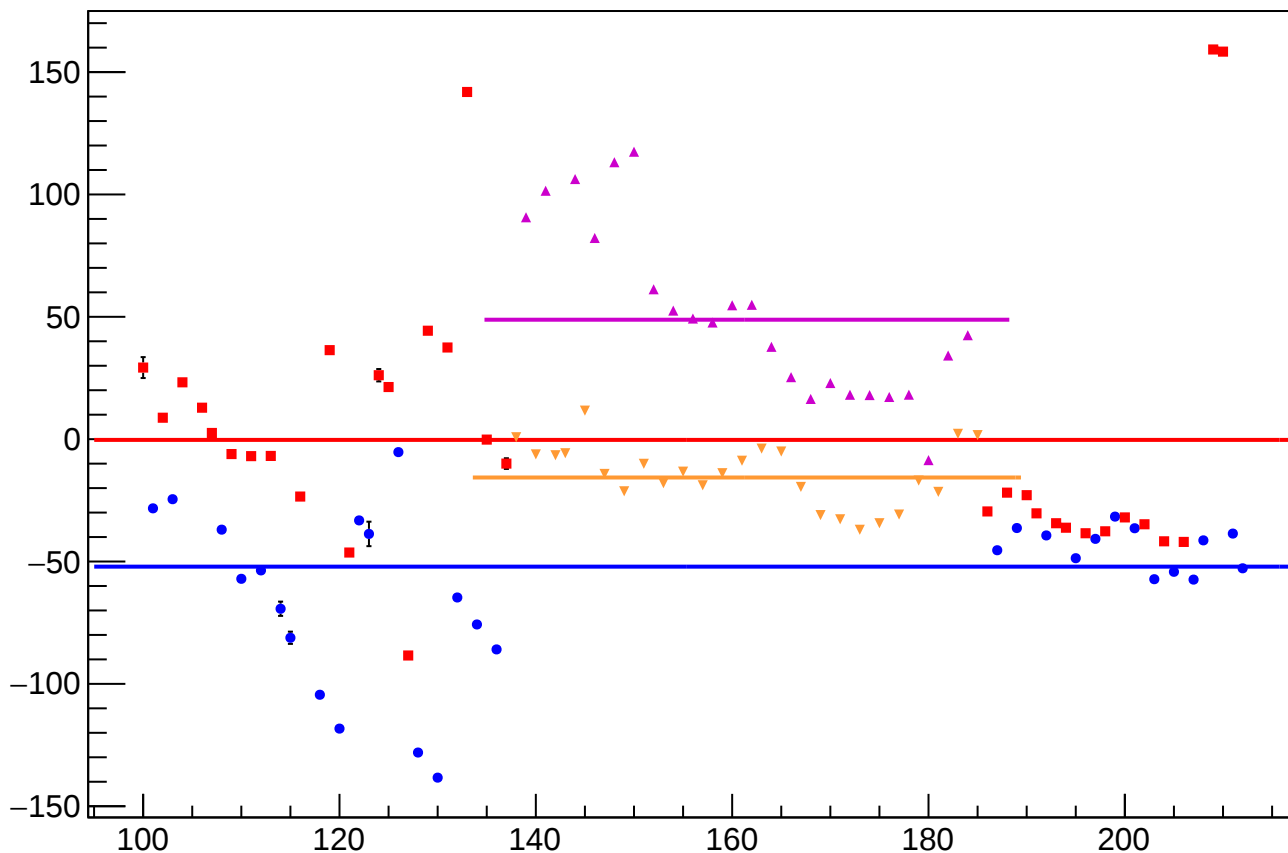
Right: 1166.750+/-0.168 χ^2/NDF : 15546264.7/62

In: 1357.250+/-0.180 χ^2/NDF : 8950969.1/52

Out: 1268.367+/-0.163 χ^2/NDF : 8536069.1/57

All: 1308.382+/-0.121 χ^2/NDF : 17621451.1/111

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.095 ± 0.181 χ^2/NDF : 17630.7/29

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: -0.302 ± 0.179 χ^2/NDF : 135203.5/32

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

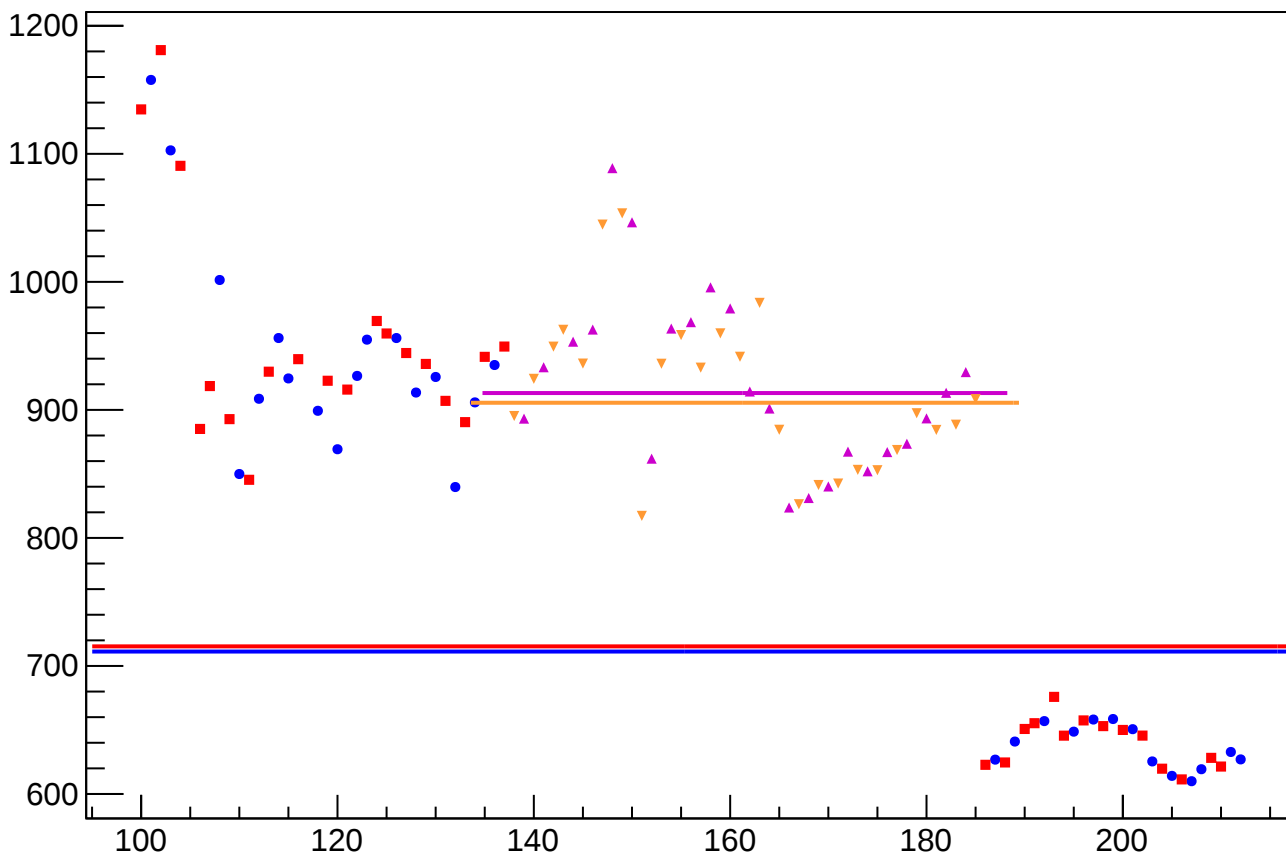
Right: -25.853 ± 0.127 χ^2/NDF : 194230.8/62

In: -11.282 ± 0.140 χ^2/NDF : 168324.0/52

Out: -6.705 ± 0.137 χ^2/NDF : 141799.0/57

All: -8.939 ± 0.098 χ^2/NDF : 310671.4/110

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 711.256 $\pm$ 0.128 χ^2 /NDF: 1146984.2/29

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF: 162073.5/24

Right Out: 715.296 $\pm$ 0.126 χ^2 /NDF: 1189599.3/32

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF: 174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47

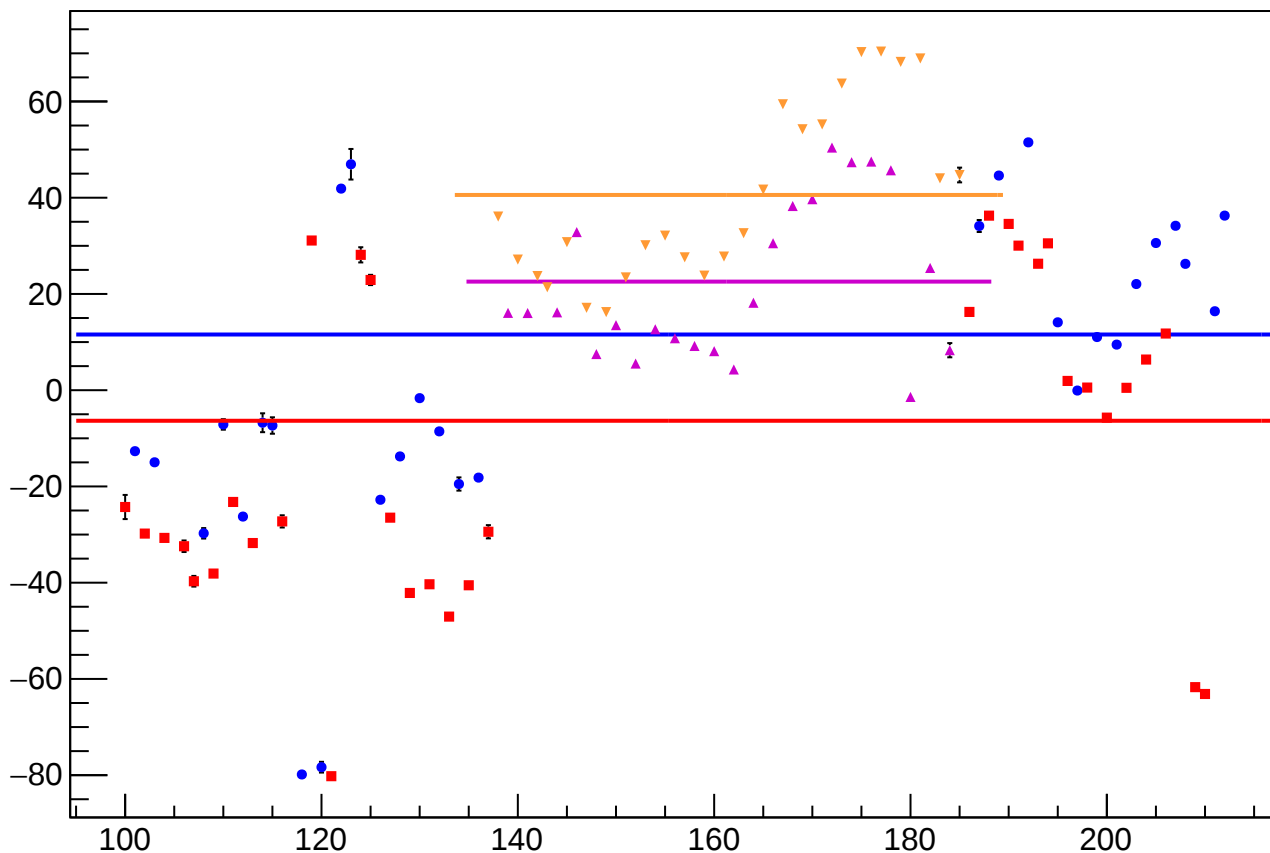
Right: 713.303 $\pm$ 0.090 χ^2 /NDF: 2337087.4/62

In: 792.921 $\pm$ 0.099 χ^2 /NDF: 2325812.6/52

Out: 794.598 $\pm$ 0.097 χ^2 /NDF: 2295722.8/57

All: 793.780 $\pm$ 0.069 χ^2 /NDF: 4621682.7/110

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 11.573 ± 0.134 $\chi^2/\text{NDF}: 43798.3/29$

Left Out: 40.573 ± 0.168 $\chi^2/\text{NDF}: 12079.0/24$

Right Out: -6.352 ± 0.132 $\chi^2/\text{NDF}: 62047.4/32$

Left In: 22.565 ± 0.175 $\chi^2/\text{NDF}: 8167.7/22$

Left: 31.959 ± 0.121 $\chi^2/\text{NDF}: 25752.7/47$

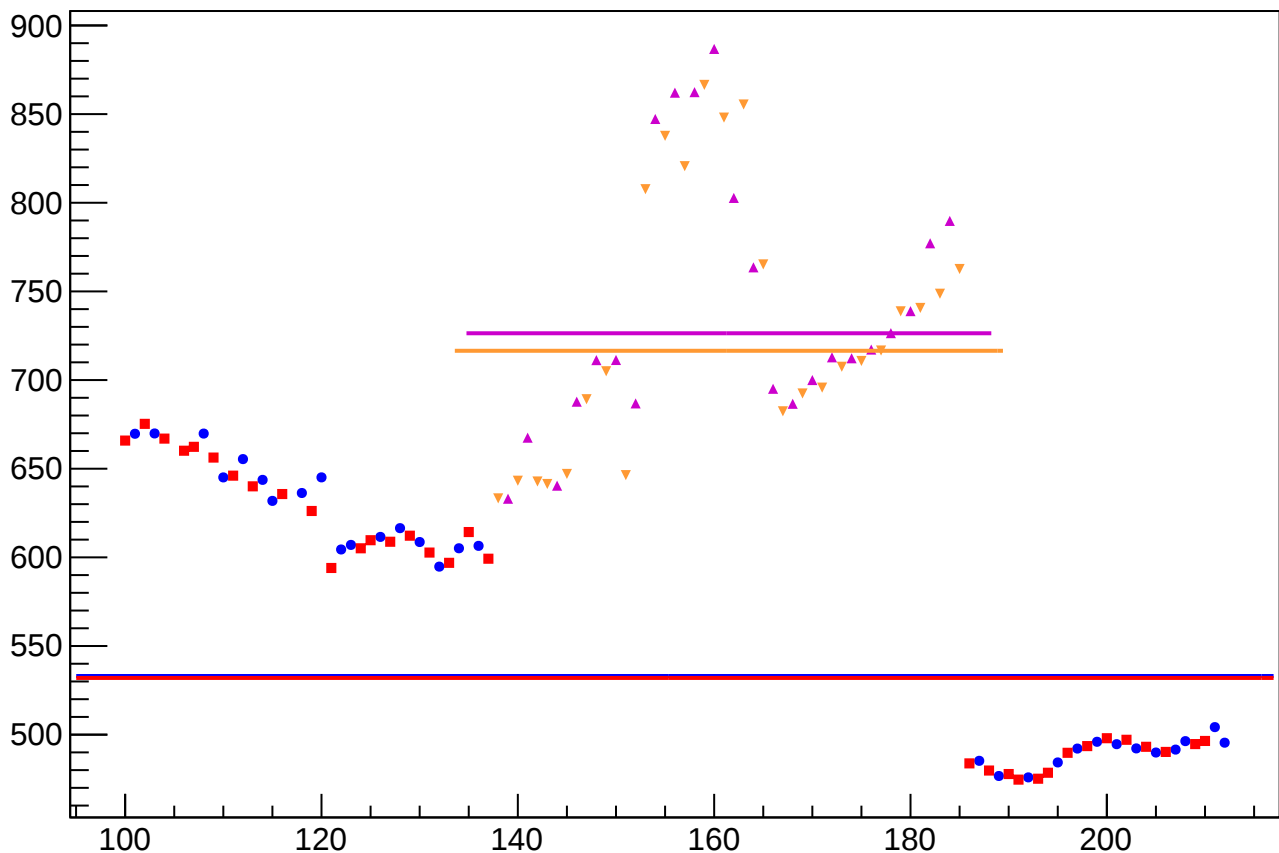
Right: 2.425 ± 0.094 $\chi^2/\text{NDF}: 114931.5/62$

In: 15.641 ± 0.107 $\chi^2/\text{NDF}: 54443.3/52$

Out: 11.512 ± 0.104 $\chi^2/\text{NDF}: 122535.8/57$

All: 13.516 ± 0.074 $\chi^2/\text{NDF}: 177750.9/110$

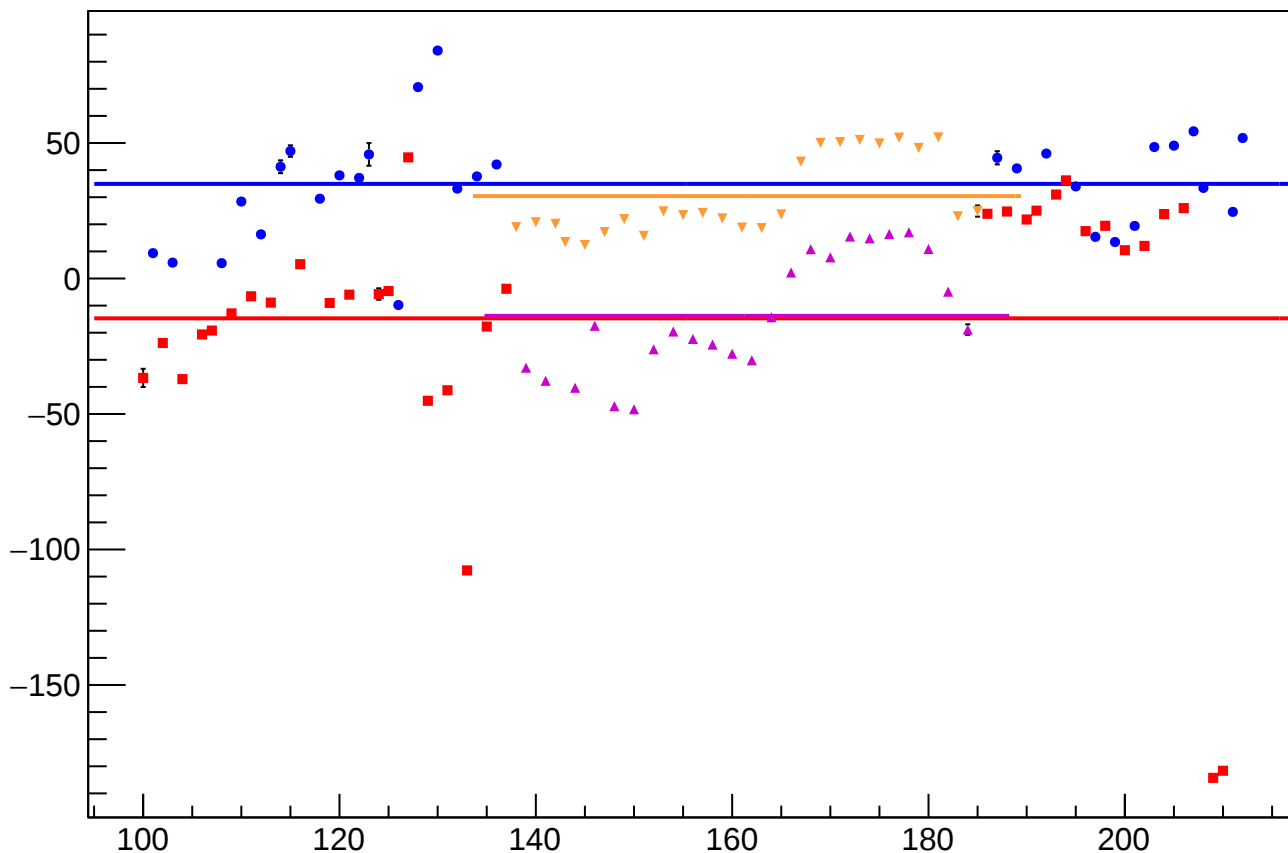
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 533.079 $\pm$ 0.095 χ^2 /NDF: 484189.4/29
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24
 Right Out: 531.991 $\pm$ 0.093 χ^2 /NDF: 525985.3/32
 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: 532.524 $\pm$ 0.066 χ^2 /NDF: 1010241.7/62
 In: 604.615 $\pm$ 0.075 χ^2 /NDF: 2306362.5/52
 Out: 602.237 $\pm$ 0.073 χ^2 /NDF: 2365852.8/57
 All: 603.392 $\pm$ 0.053 χ^2 /NDF: 4672727.3/110

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 34.912 ± 0.215 $\chi^2/\text{NDF}: 8610.9/29$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -14.693 ± 0.211 $\chi^2/\text{NDF}: 71839.9/32$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

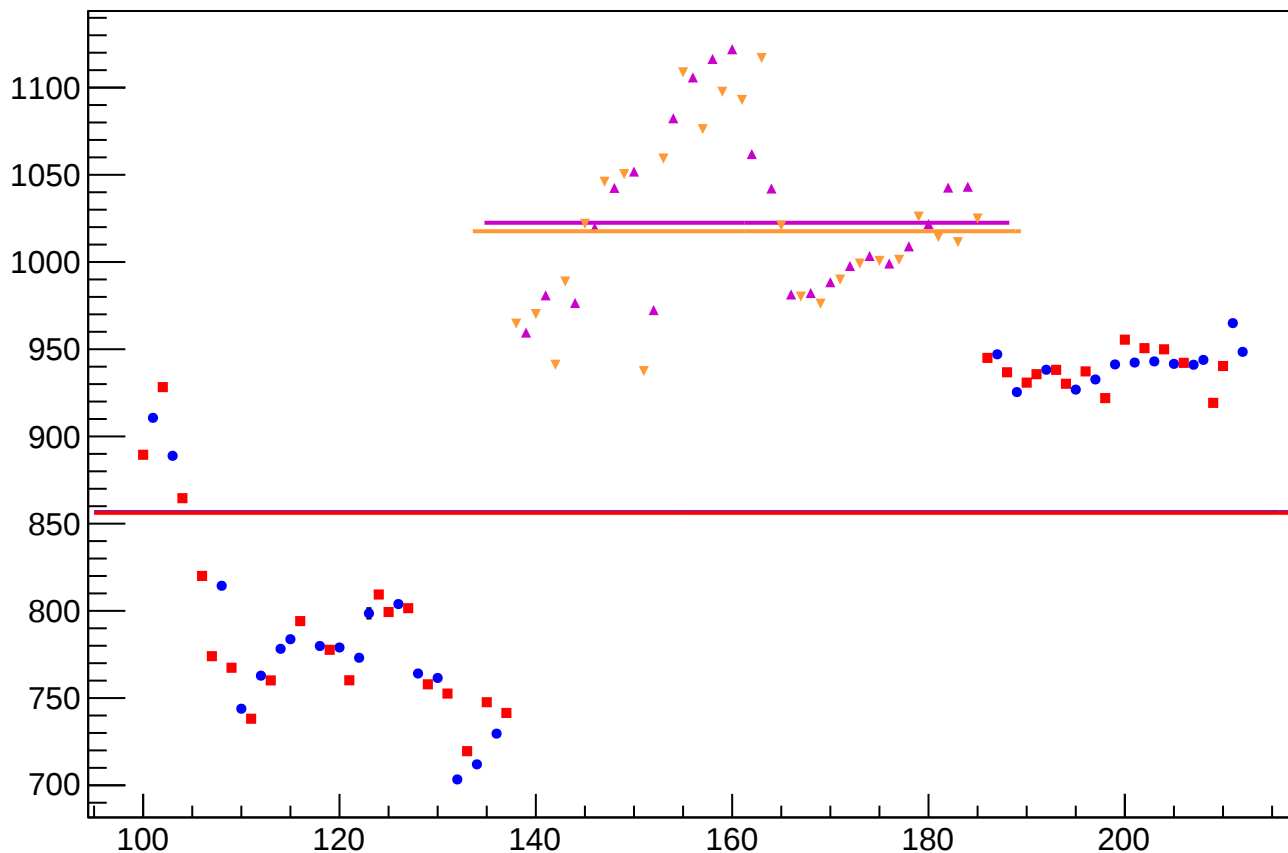
Right: 9.613 ± 0.151 $\chi^2/\text{NDF}: 107479.1/62$

In: 13.753 ± 0.162 $\chi^2/\text{NDF}: 38783.2/52$

Out: 5.234 ± 0.158 $\chi^2/\text{NDF}: 95794.5/57$

All: 9.380 ± 0.113 $\chi^2/\text{NDF}: 135996.4/110$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 856.570 $\pm$ 0.152 χ^2 /NDF: 359159.5/29

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 856.243 $\pm$ 0.149 χ^2 /NDF: 335204.2/32

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF:69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

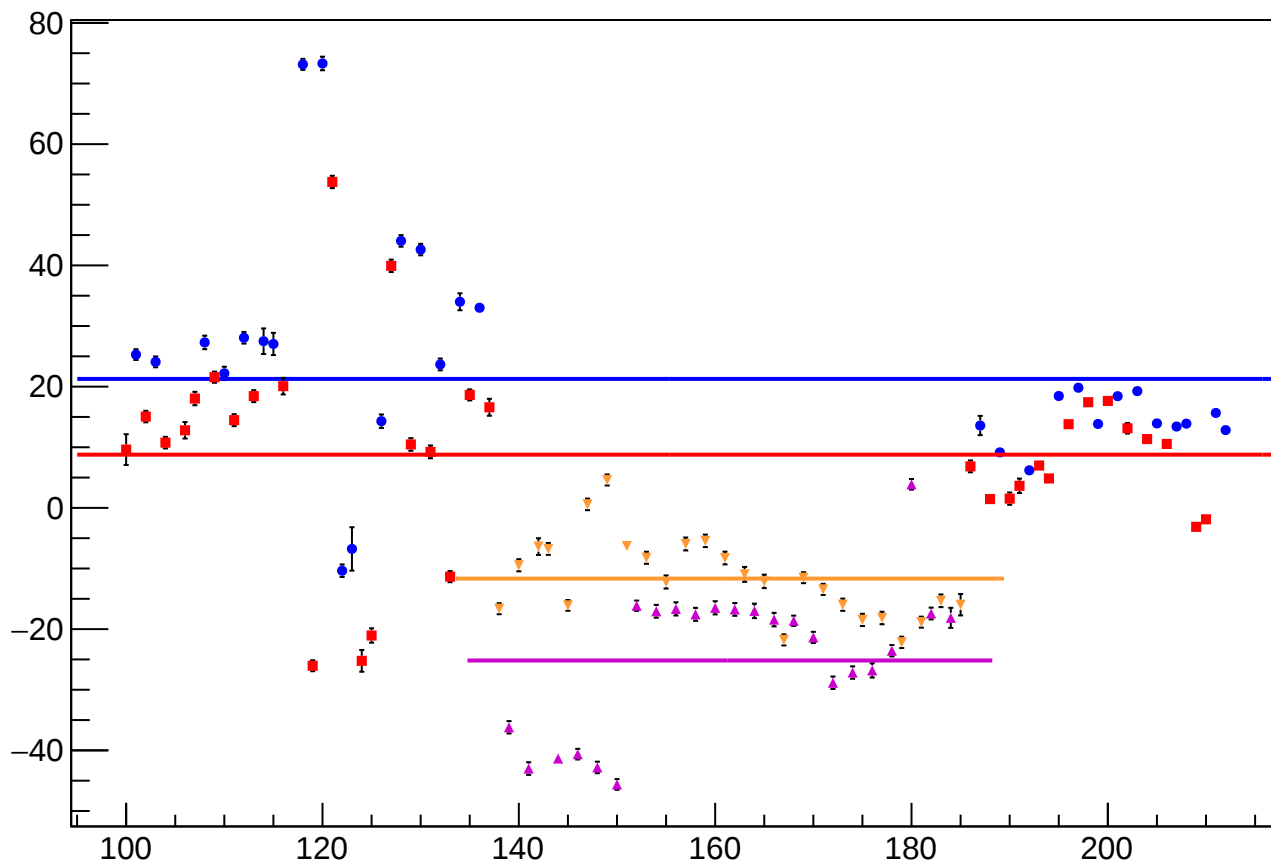
Right: 856.403 $\pm$ 0.107 χ^2 /NDF: 694366.0/62

In: 928.671 $\pm$ 0.115 χ^2 /NDF:944153.9/52

Out: 927.557 $\pm$ 0.112 χ^2 /NDF:934887.5/57

All: 928.099 $\pm$ 0.080 χ^2 /NDF: 1879089.9/110

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 21.276+/-0.154 χ^2/NDF : 9642.0/29

Left Out: -11.664+/-0.200 χ^2/NDF : 1147.4/24

Right Out: 8.779+/-0.150 χ^2/NDF : 7946.1/32

Left In: -25.174+/-0.207 χ^2/NDF : 3747.1/22

Left: -18.184+/-0.144 χ^2/NDF : 7090.4/47

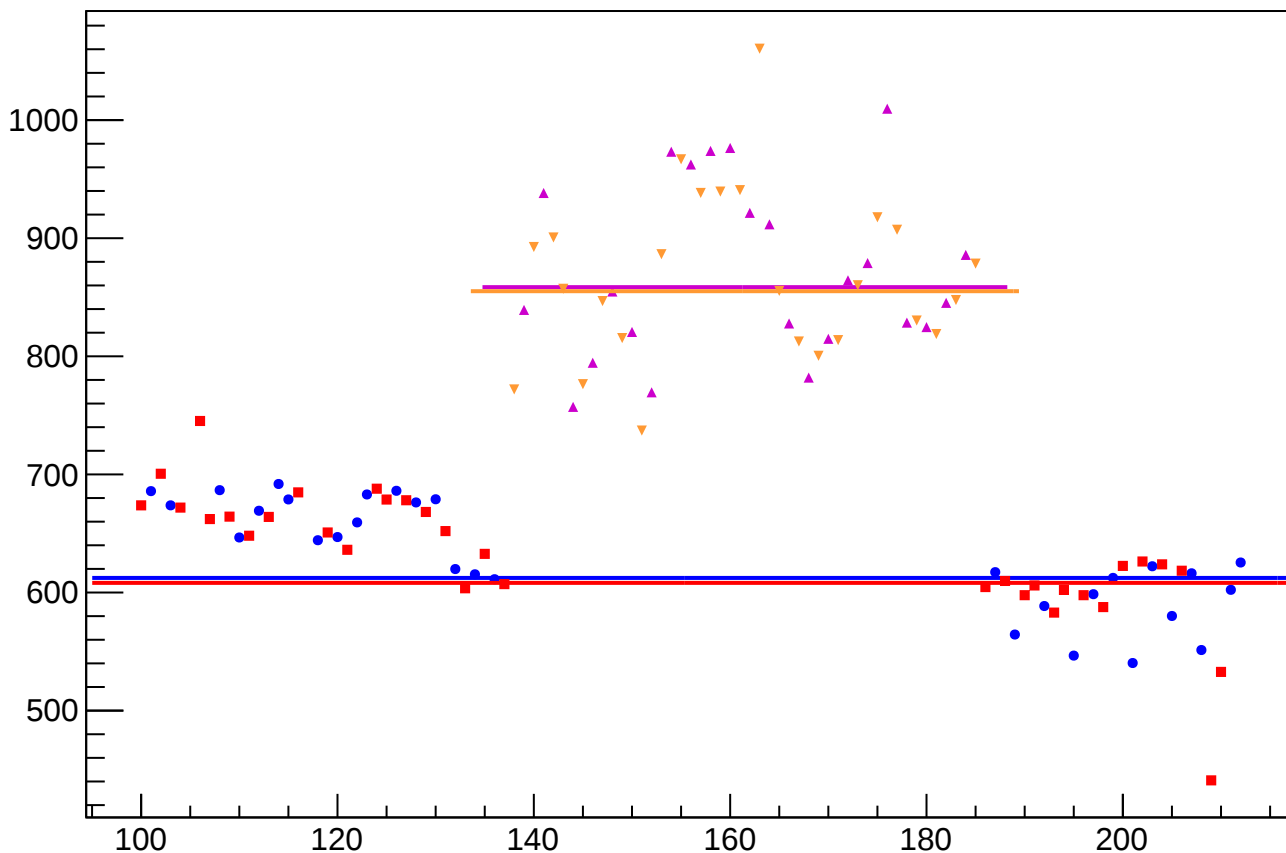
Right: 14.873+/-0.108 χ^2/NDF : 20960.7/62

In: 4.762+/-0.124 χ^2/NDF : 45722.7/52

Out: 1.416+/-0.120 χ^2/NDF : 15759.3/57

All: 3.042+/-0.086 χ^2/NDF : 61858.5/110

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.363 $\pm$ 0.109 χ^2 /NDF: 164898.2/29

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF: 233746.7/24

Right Out: 608.170 $\pm$ 0.106 χ^2 /NDF: 359452.8/32

Left In: 858.563 $\pm$ 0.147 χ^2 /NDF: 239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2 /NDF: 473049.9/47

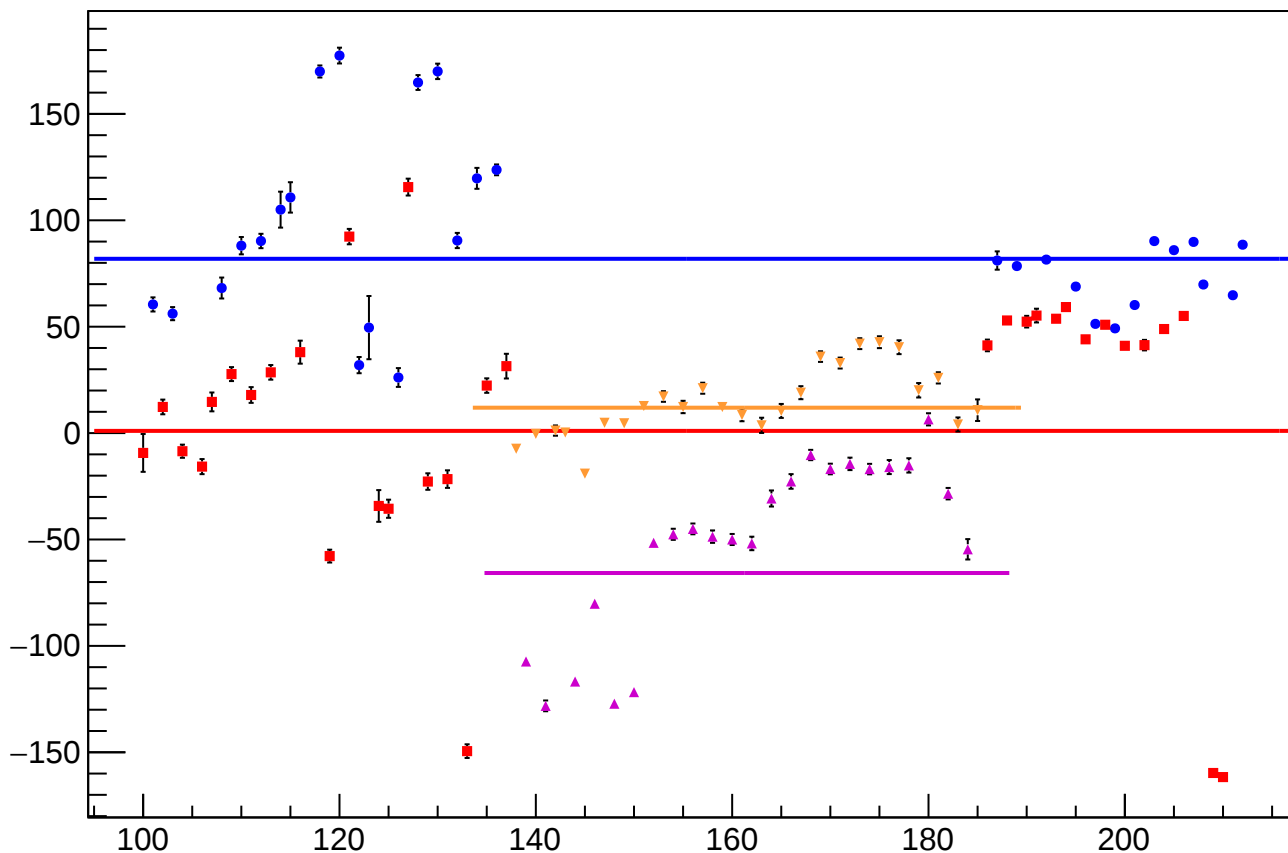
Right: 610.215 $\pm$ 0.076 χ^2 /NDF: 525110.4/62

In: 699.894 $\pm$ 0.087 χ^2 /NDF: 2220696.6/52

Out: 697.120 $\pm$ 0.085 χ^2 /NDF: 2538810.6/57

All: 698.468 $\pm$ 0.061 χ^2 /NDF: 4760024.6/110

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 81.907 ± 0.466 $\chi^2/\text{NDF}: 4534.1/29$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 1.038 ± 0.449 $\chi^2/\text{NDF}: 33625.2/32$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

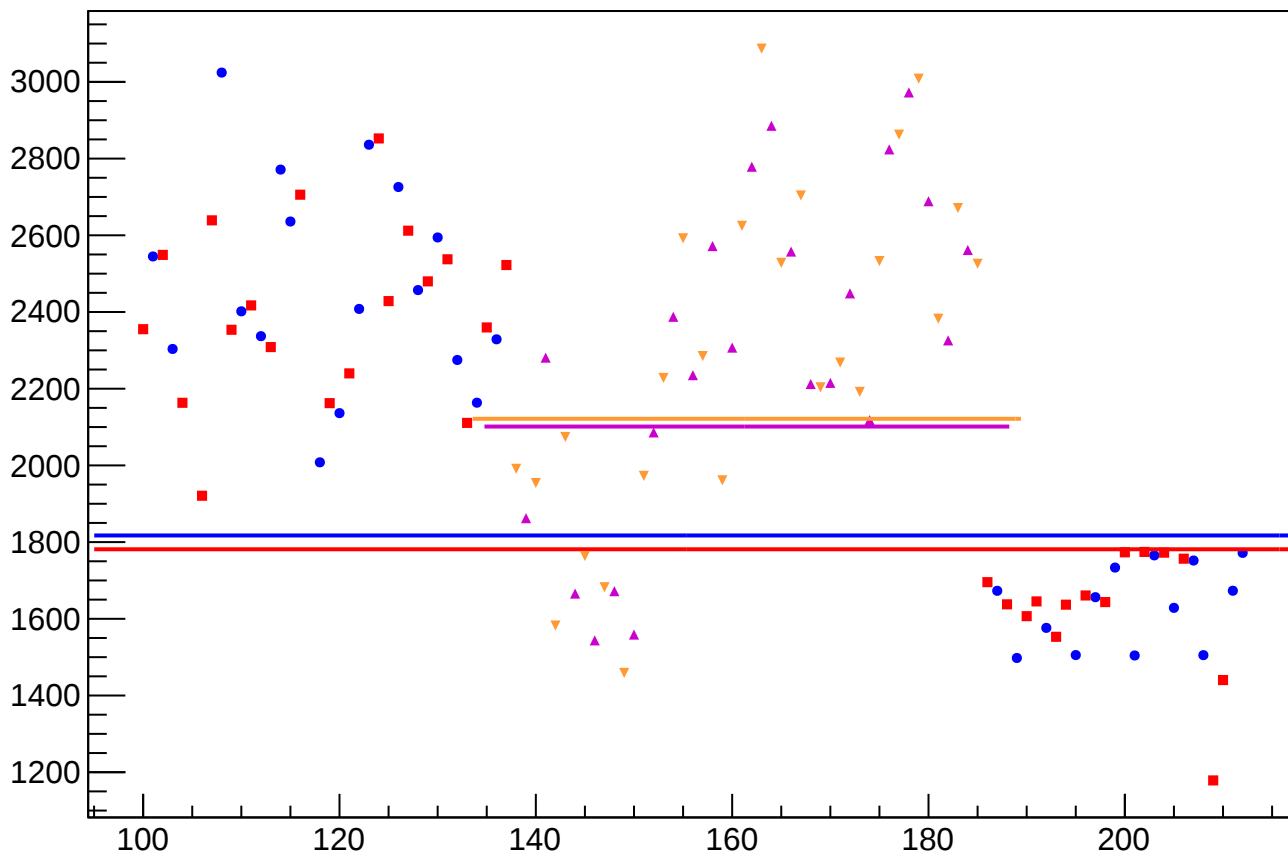
Right: 39.973 ± 0.323 $\chi^2/\text{NDF}: 53805.4/62$

In: 15.883 ± 0.346 $\chi^2/\text{NDF}: 56849.3/52$

Out: 5.842 ± 0.335 $\chi^2/\text{NDF}: 34862.0/57$

All: 10.705 ± 0.241 $\chi^2/\text{NDF}: 92145.2/110$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1817.338 ± 0.329 $\chi^2/\text{NDF}: 1180077.5/29$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1781.303 ± 0.317 $\chi^2/\text{NDF}: 1469391.1/32$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

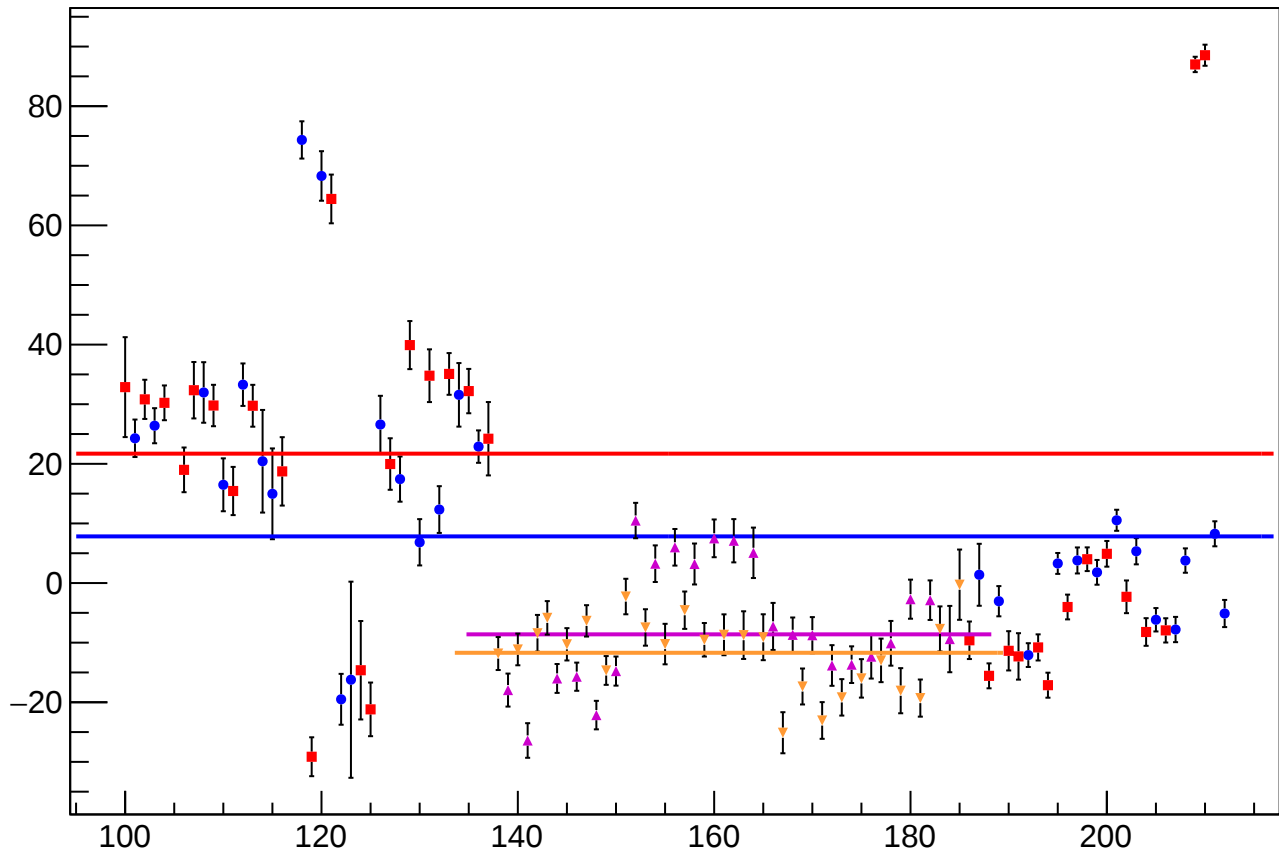
Right: 1798.652 ± 0.228 $\chi^2/\text{NDF}: 2655682.0/62$

In: 1944.319 ± 0.245 $\chi^2/\text{NDF}: 2873347.2/52$

Out: 1931.274 ± 0.237 $\chi^2/\text{NDF}: 3364391.0/57$

All: 1937.592 ± 0.170 $\chi^2/\text{NDF}: 6239202.8/11$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 7.826 ± 0.505 $\chi^2/\text{NDF}: 1211.8/29$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 21.706 ± 0.484 $\chi^2/\text{NDF}: 6450.2/32$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

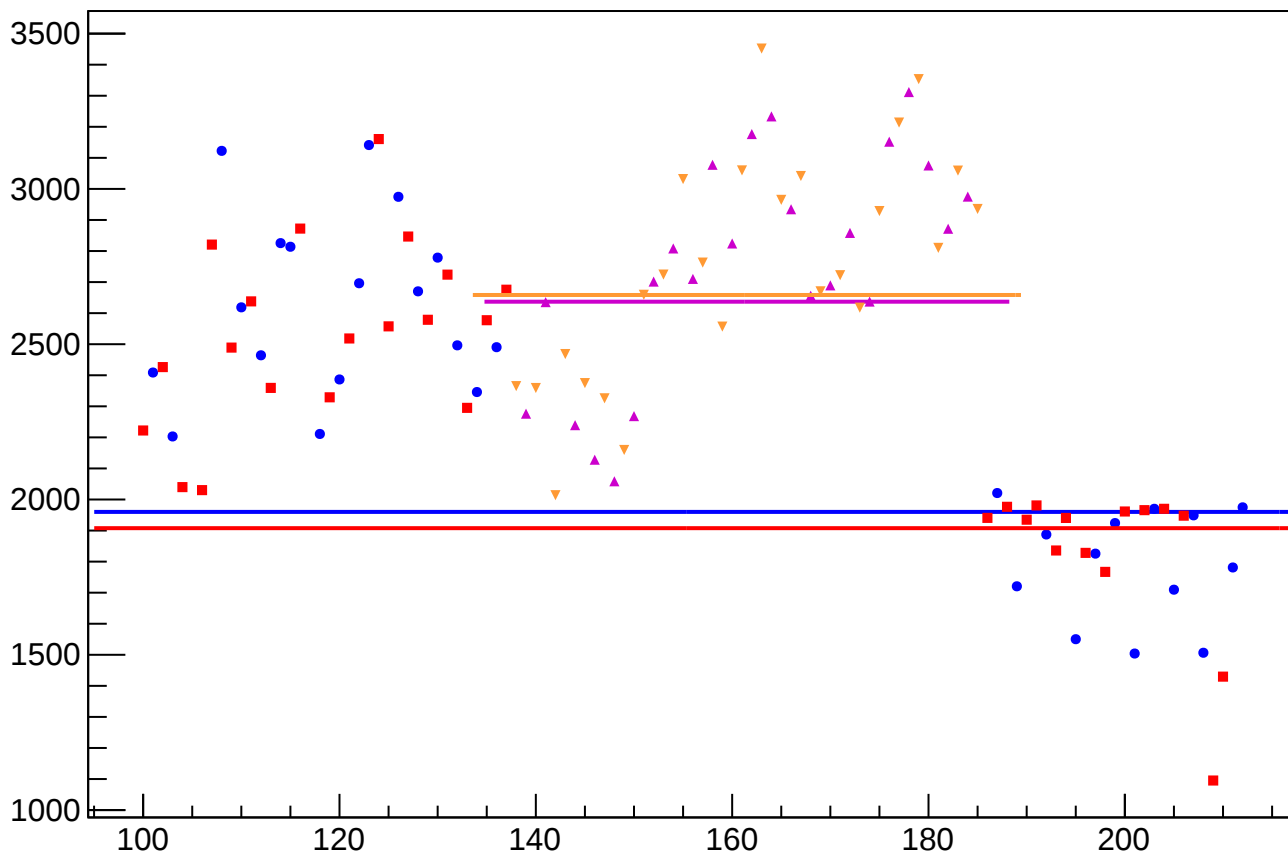
Right: 15.051 ± 0.349 $\chi^2/\text{NDF}: 8055.9/62$

In: 1.551 ± 0.397 $\chi^2/\text{NDF}: 1881.1/52$

Out: 9.186 ± 0.383 $\chi^2/\text{NDF}: 8318.9/57$

All: 5.504 ± 0.275 $\chi^2/\text{NDF}: 10391.7/110$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1960.081 $\pm$ 0.357 χ^2 /NDF: 1181136.5/29

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 1907.707 $\pm$ 0.342 χ^2 /NDF: 1812164.7/32

Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2 /NDF: 1272190.1/47

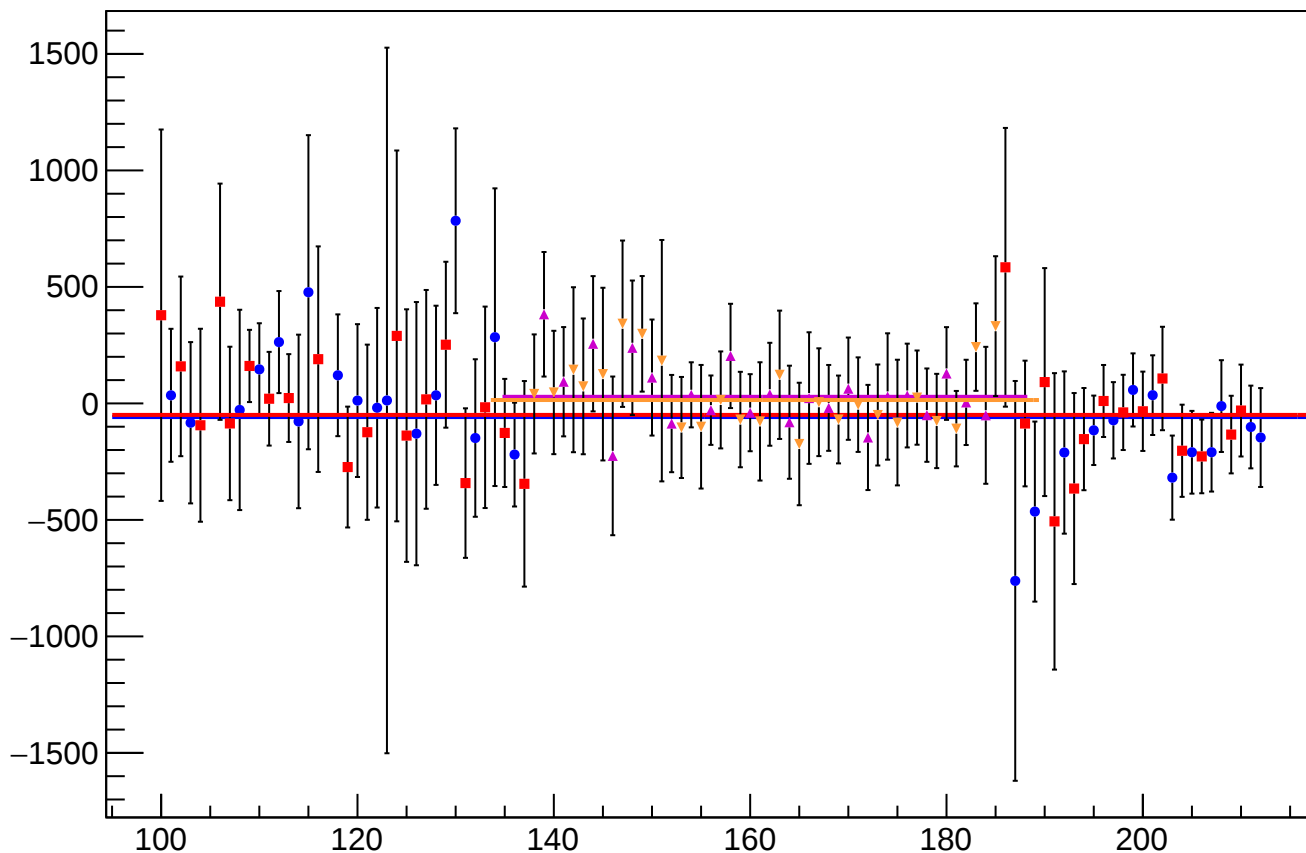
Right: 1932.818 $\pm$ 0.247 χ^2 /NDF: 3004519.0/62

In: 2218.535 $\pm$ 0.280 χ^2 /NDF: 3208266.1/52

Out: 2189.084 $\pm$ 0.271 χ^2 /NDF: 4232115.7/57

All: 2203.289 $\pm$ 0.195 χ^2 /NDF: 7446088.7/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.607 ± 44.289 $\chi^2/\text{NDF}: 16.8/29$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -49.360 ± 44.005 $\chi^2/\text{NDF}: 12.4/32$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

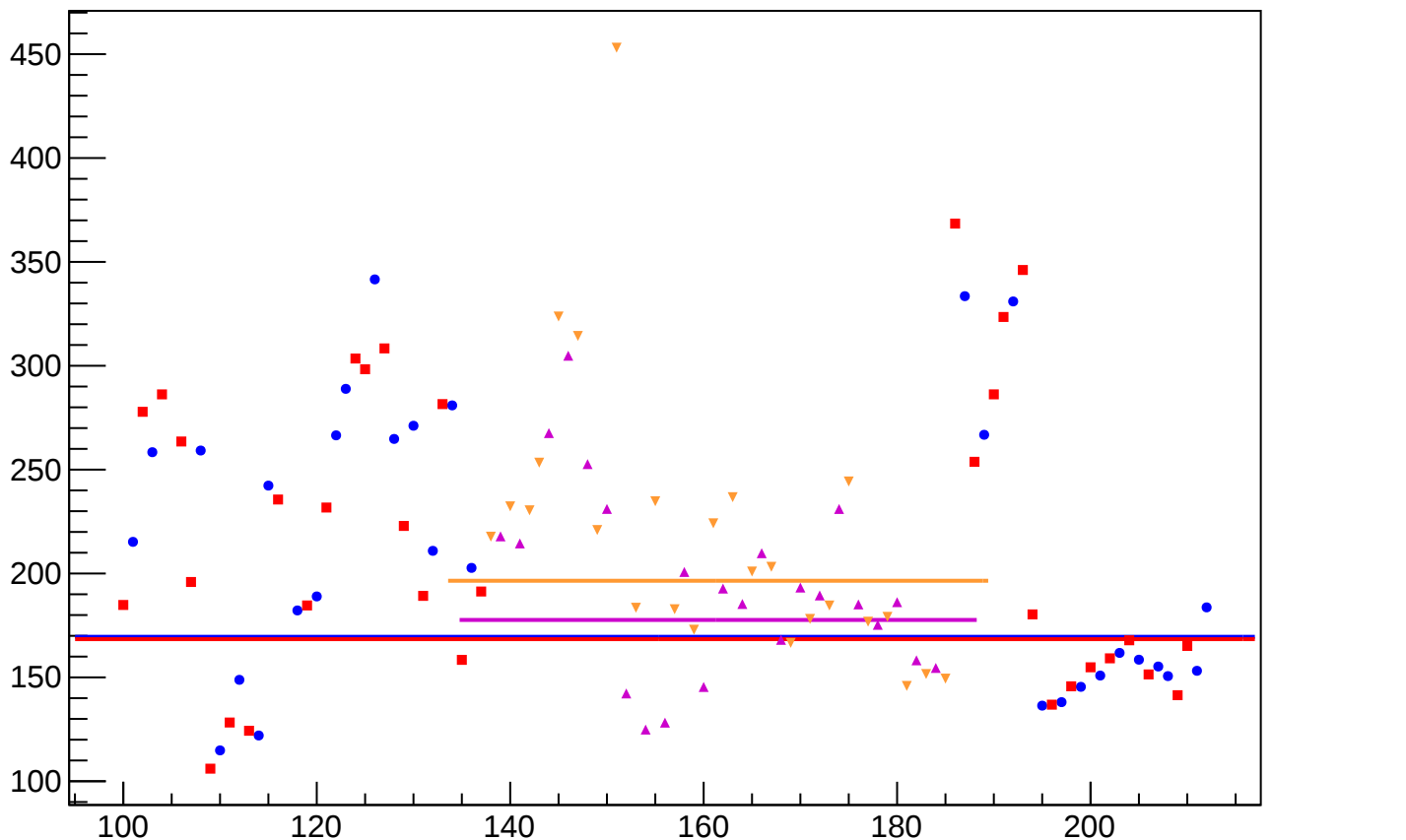
Right: -53.954 ± 31.216 $\chi^2/\text{NDF}: 29.2/62$

In: -15.490 ± 31.440 $\chi^2/\text{NDF}: 25.0/52$

Out: -19.875 ± 32.290 $\chi^2/\text{NDF}: 21.1/57$

All: -17.624 ± 22.526 $\chi^2/\text{NDF}: 46.1/110$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.533+/-0.031 χ^2/NDF : 2141052.7/29

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 168.402+/-0.031 χ^2/NDF : 2831633.6/32

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

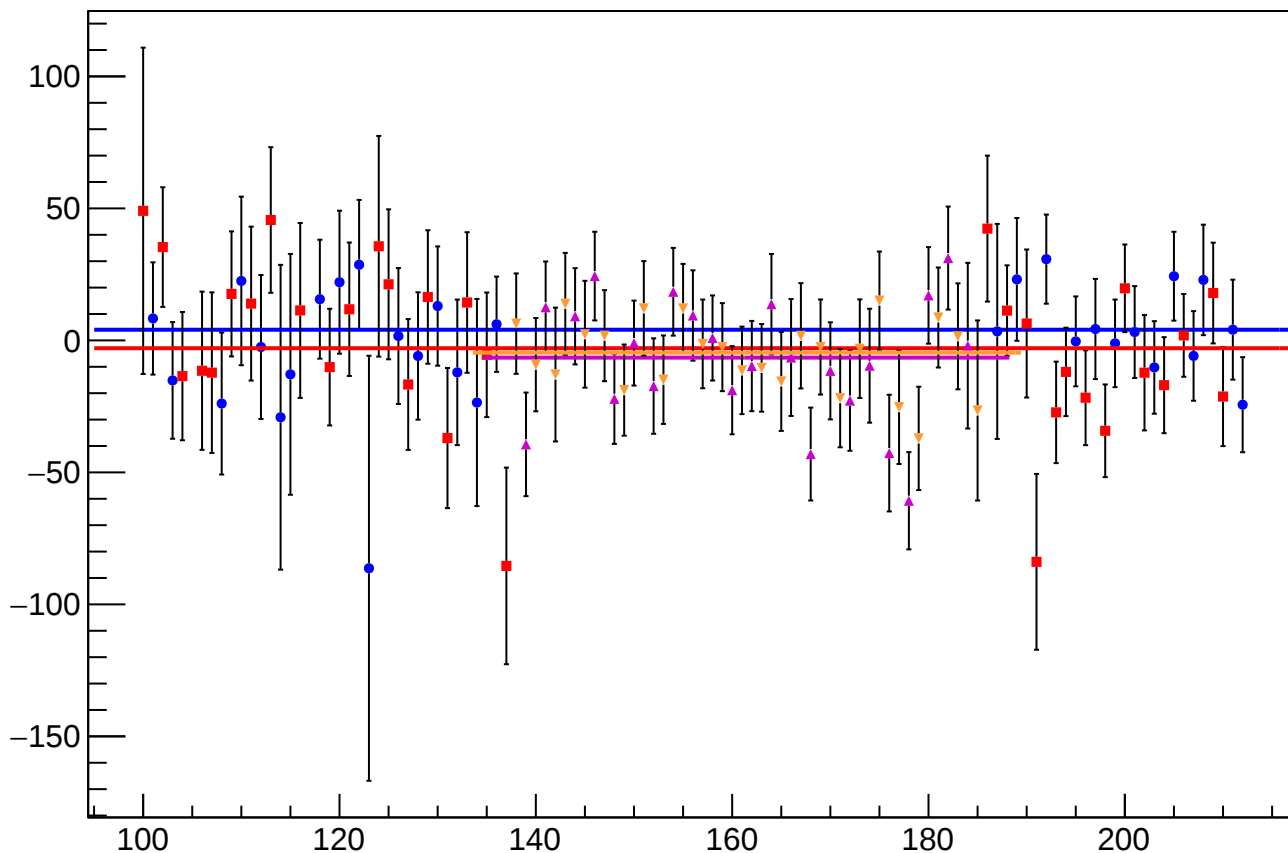
Right: 168.964+/-0.022 χ^2/NDF : 4973342.2/62

In: 173.556+/-0.022 χ^2/NDF : 3804985.4/52

Out: 181.378+/-0.023 χ^2/NDF : 4997865.4/57

All: 177.363+/-0.016 χ^2/NDF : 8863090.2/110

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.037 ± 4.027 $\chi^2/\text{NDF}: 16.0/29$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -2.964 ± 3.980 $\chi^2/\text{NDF}: 38.6/32$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

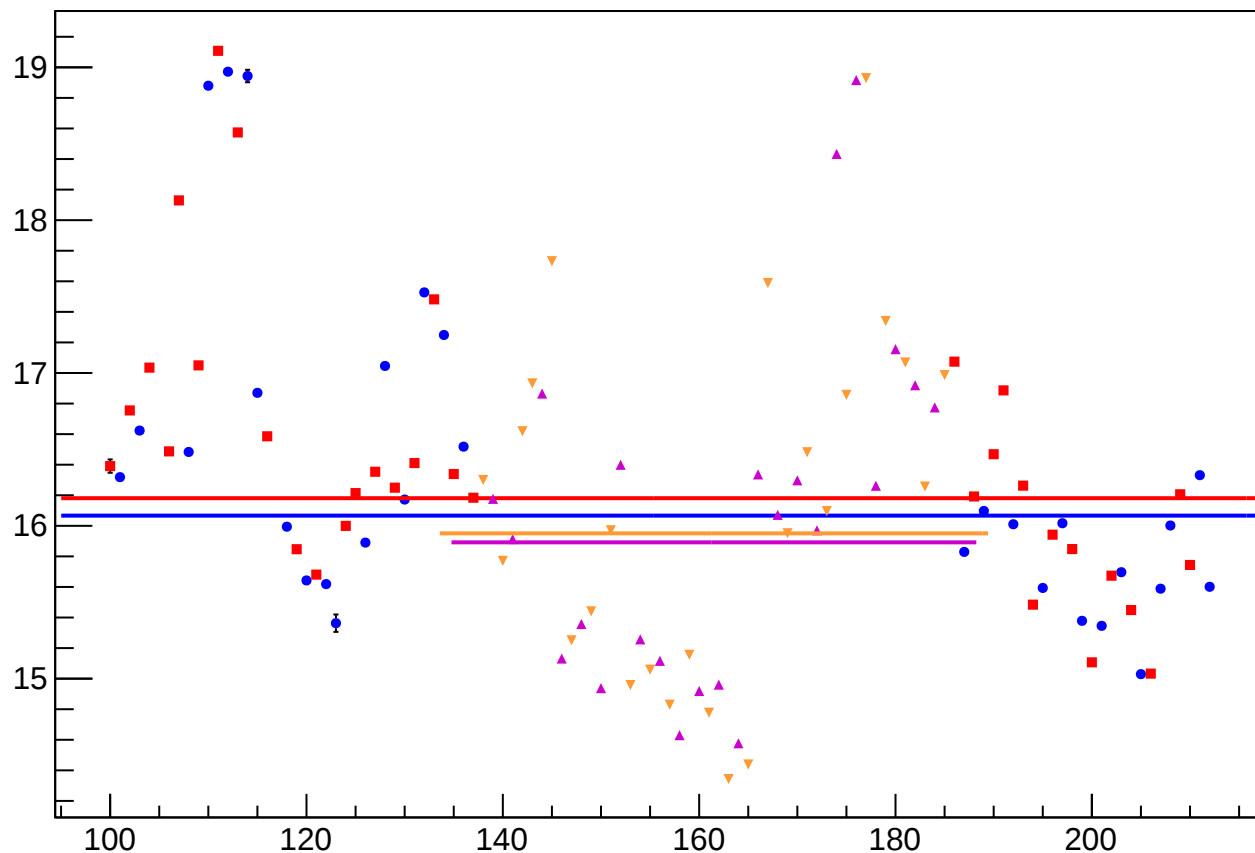
Right: 0.495 ± 2.831 $\chi^2/\text{NDF}: 56.2/62$

In: -1.513 ± 2.774 $\chi^2/\text{NDF}: 56.0/52$

Out: -3.860 ± 2.721 $\chi^2/\text{NDF}: 50.8/57$

All: -2.709 ± 1.943 $\chi^2/\text{NDF}: 107.2/110$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.067 $\pm$ 0.003 χ^2 /NDF: 79612.8/29

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.181 $\pm$ 0.003 χ^2 /NDF: 89079.3/32

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

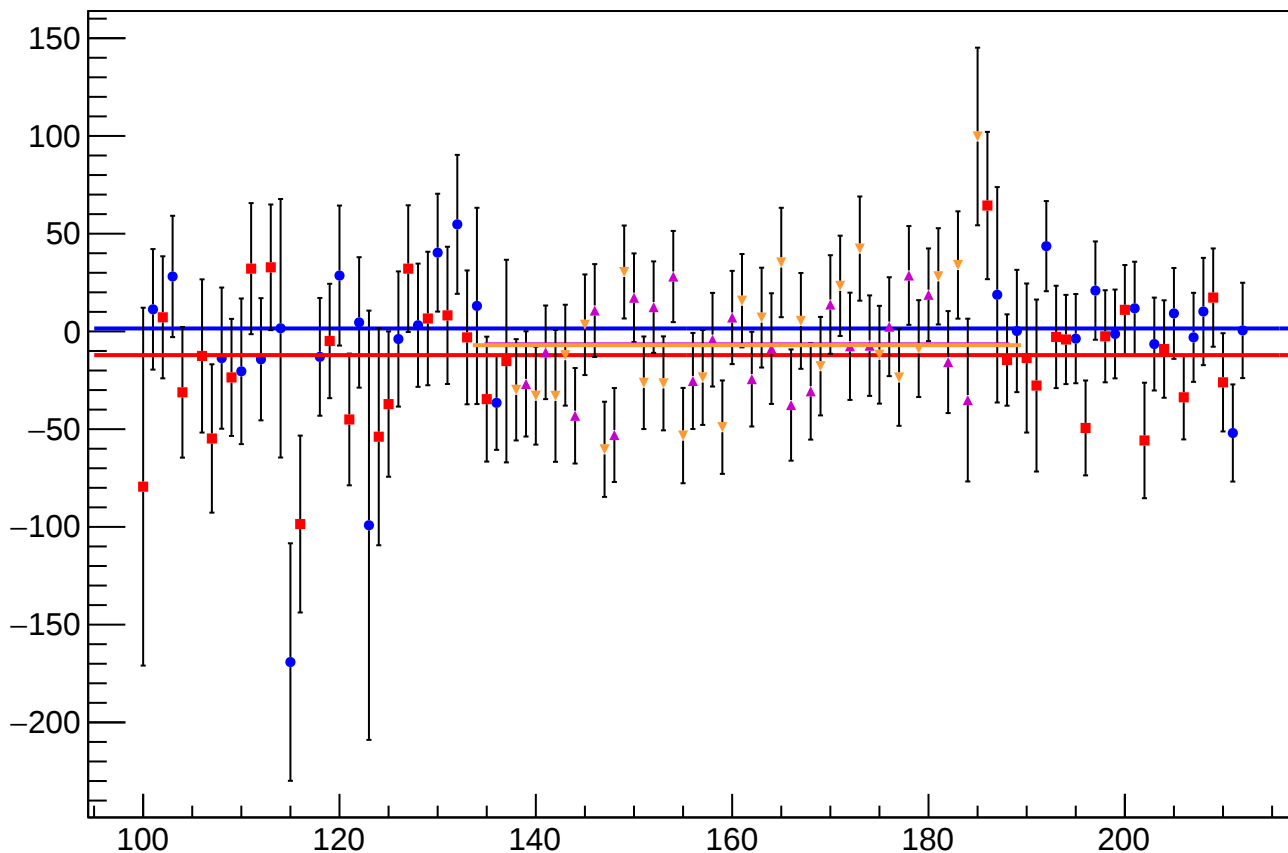
Right: 16.124 $\pm$ 0.002 χ^2 /NDF: 169503.1/62

In: 15.975 $\pm$ 0.002 χ^2 /NDF:228687.0/52

Out: 16.058 $\pm$ 0.002 χ^2 /NDF:266096.6/57

All: 16.017 $\pm$ 0.001 χ^2 /NDF: 495704.2/110

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.518 ± 5.389 $\chi^2/\text{NDF}: 26.9/29$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.115 ± 5.317 $\chi^2/\text{NDF}: 28.0/32$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

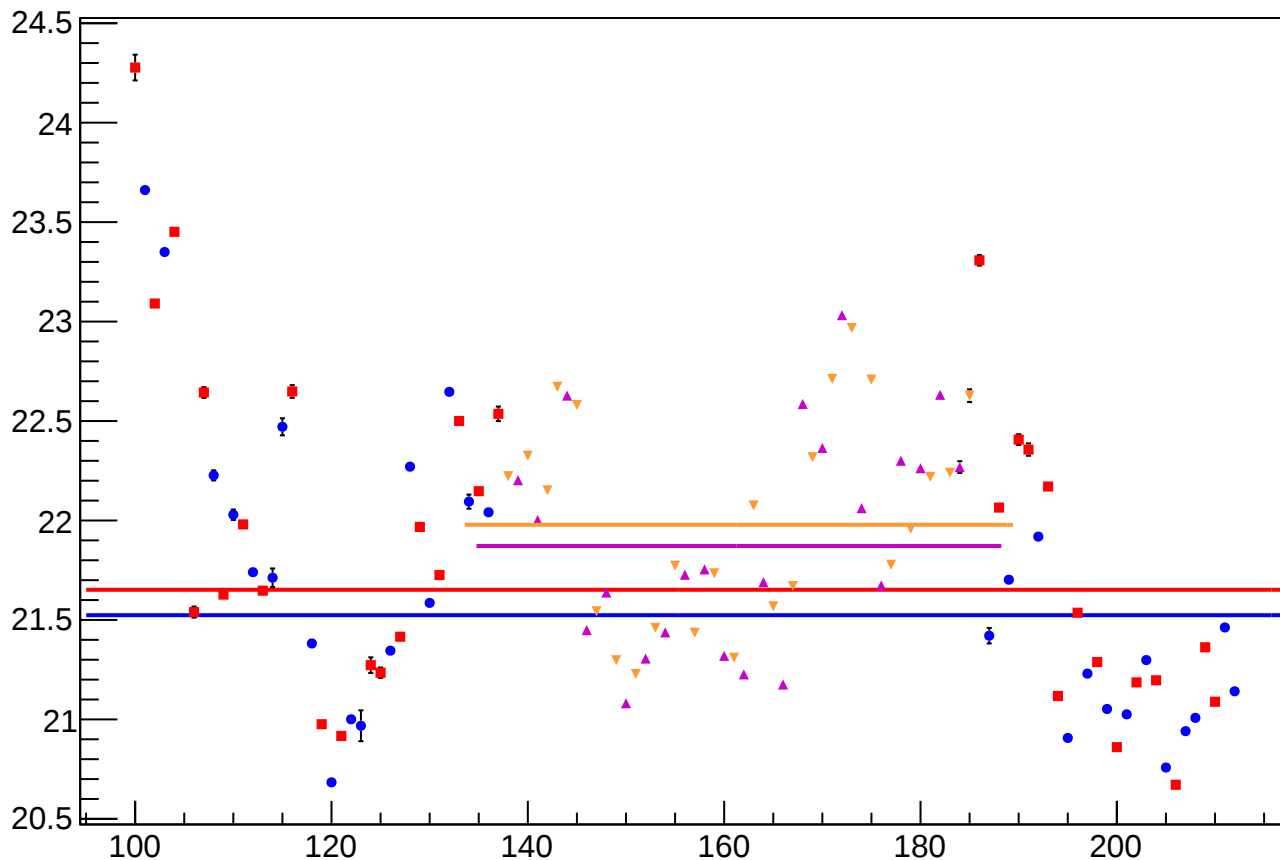
Right: -5.389 ± 3.785 $\chi^2/\text{NDF}: 58.2/62$

In: -2.652 ± 3.761 $\chi^2/\text{NDF}: 47.2/52$

Out: -9.470 ± 3.689 $\chi^2/\text{NDF}: 65.9/57$

All: -6.127 ± 2.633 $\chi^2/\text{NDF}: 114.8/110$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.524+/-0.004 χ^2/NDF : 33315.8/29

Left Out: 21.978+/-0.004 χ^2/NDF :19430.2/24

Right Out: 21.652+/-0.004 χ^2/NDF : 36329.4/32

Left In: 21.872+/-0.004 χ^2/NDF :20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

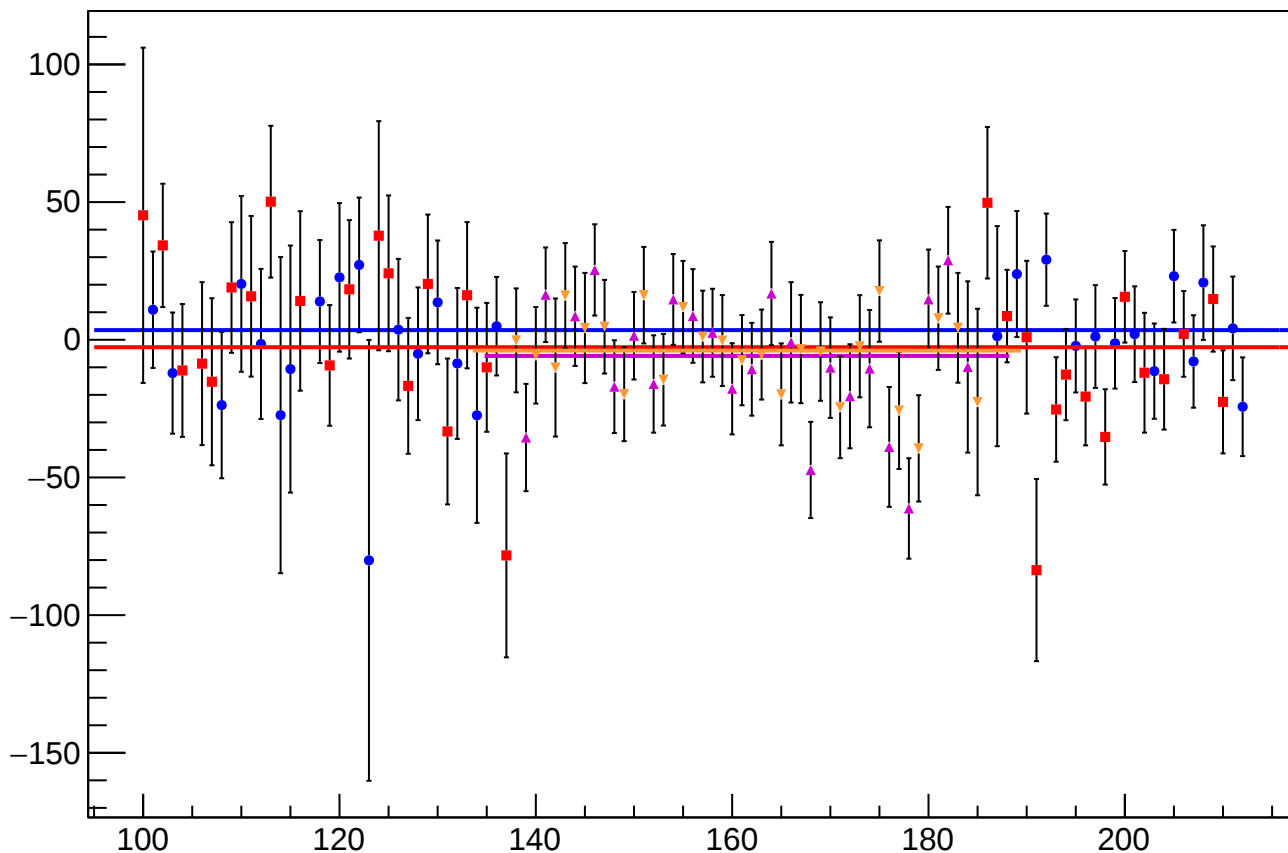
Right: 21.589+/-0.003 χ^2/NDF : 70215.8/62

In: 21.702+/-0.003 χ^2/NDF :58116.8/52

Out: 21.821+/-0.003 χ^2/NDF :59675.1/57

All: 21.763+/-0.002 χ^2/NDF : 118810.4/110

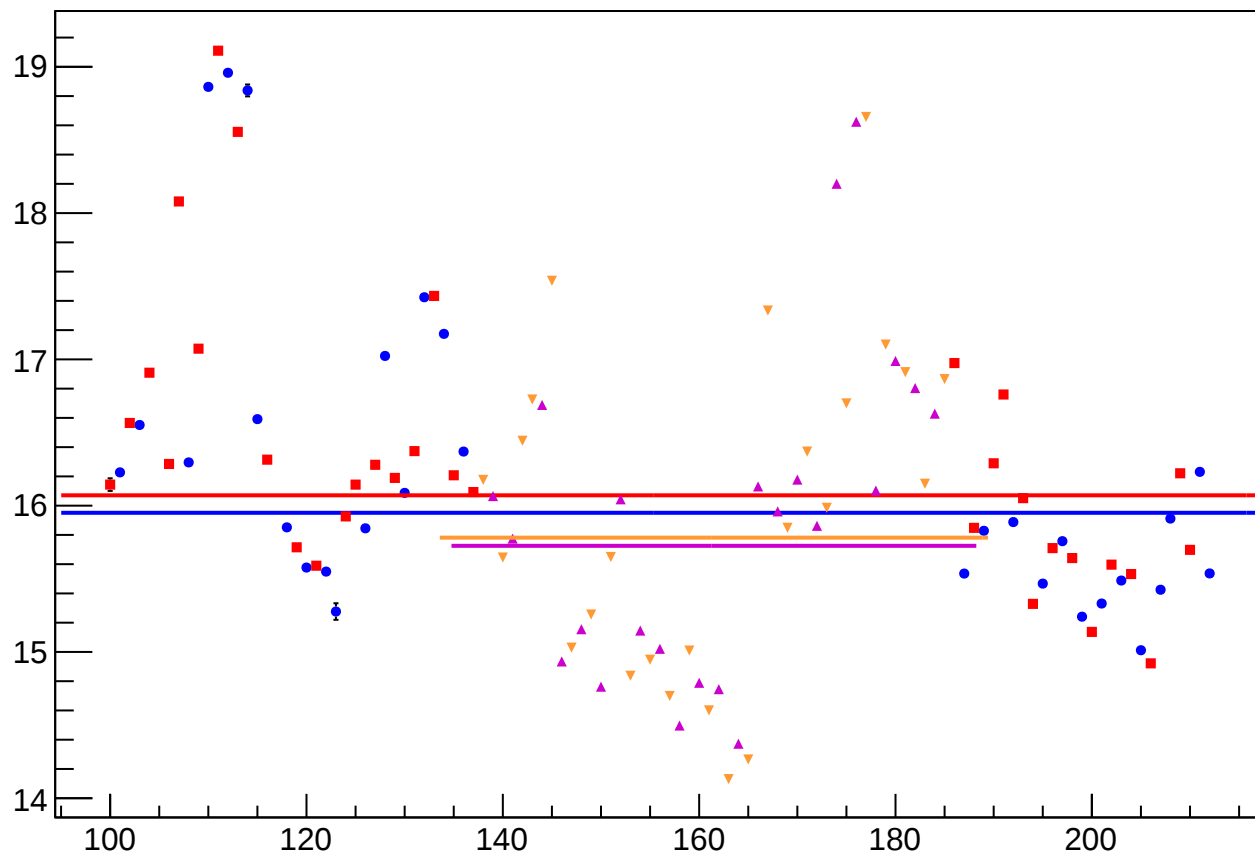
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.505 ± 3.999 $\chi^2/\text{NDF}: 15.3/29$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -2.695 ± 3.953 $\chi^2/\text{NDF}: 39.1/32$
 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: 0.369 ± 2.811 $\chi^2/\text{NDF}: 55.6/62$
 In: -1.433 ± 2.750 $\chi^2/\text{NDF}: 54.4/52$
 Out: -3.354 ± 2.697 $\chi^2/\text{NDF}: 53.1/57$
 All: -2.412 ± 1.925 $\chi^2/\text{NDF}: 107.7/110$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.951+/-0.003 χ^2/NDF : 82262.5/29

Left Out: 15.781+/-0.003 χ^2/NDF : 172894.3/24

Right Out: 16.071+/-0.003 χ^2/NDF : 91403.7/32

Left In: 15.725+/-0.003 χ^2/NDF : 145830.9/22

Left: 15.754+/-0.002 χ^2/NDF : 318948.8/47

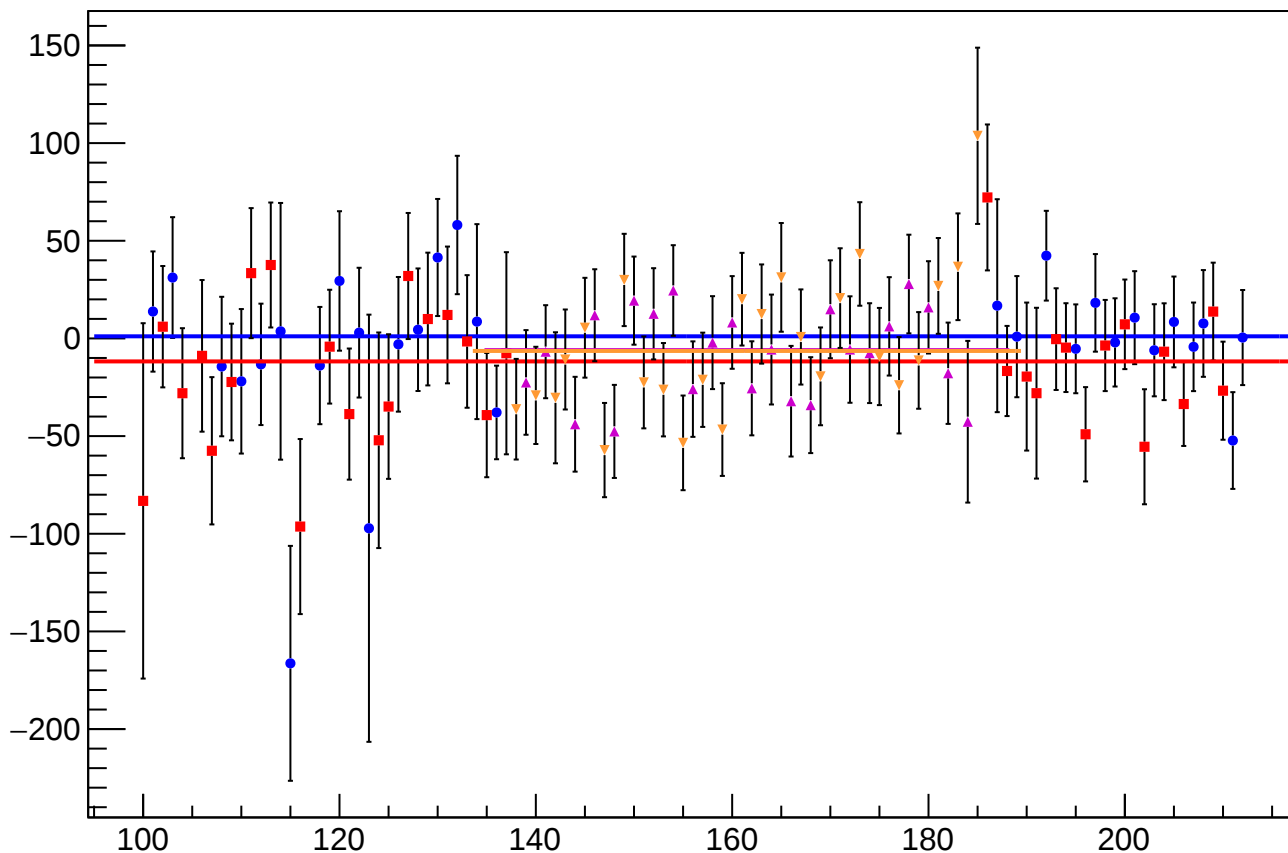
Right: 16.012+/-0.002 χ^2/NDF : 174570.1/62

In: 15.832+/-0.002 χ^2/NDF : 231456.7/52

Out: 15.916+/-0.002 χ^2/NDF : 270032.1/57

All: 15.875+/-0.001 χ^2/NDF : 502436.1/110

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.085 ± 5.365 $\chi^2/\text{NDF}: 27.4/29$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.767 ± 5.290 $\chi^2/\text{NDF}: 29.2/32$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

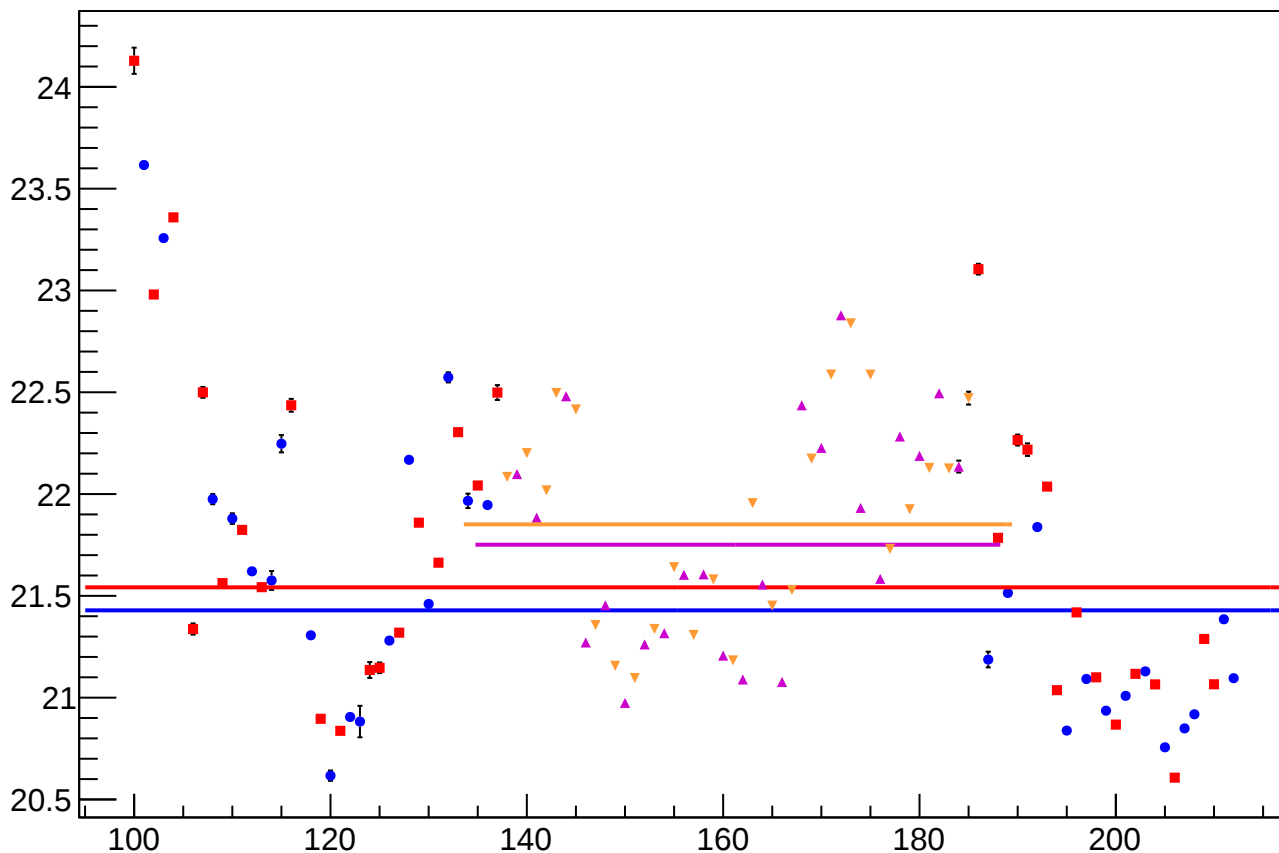
Right: -5.431 ± 3.767 $\chi^2/\text{NDF}: 59.5/62$

In: -2.542 ± 3.742 $\chi^2/\text{NDF}: 46.9/52$

Out: -8.982 ± 3.668 $\chi^2/\text{NDF}: 67.1/57$

All: -5.826 ± 2.620 $\chi^2/\text{NDF}: 115.5/110$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.429 $\pm$ 0.004 χ^2 /NDF: 32700.4/29

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.542 $\pm$ 0.004 χ^2 /NDF: 33840.3/32

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

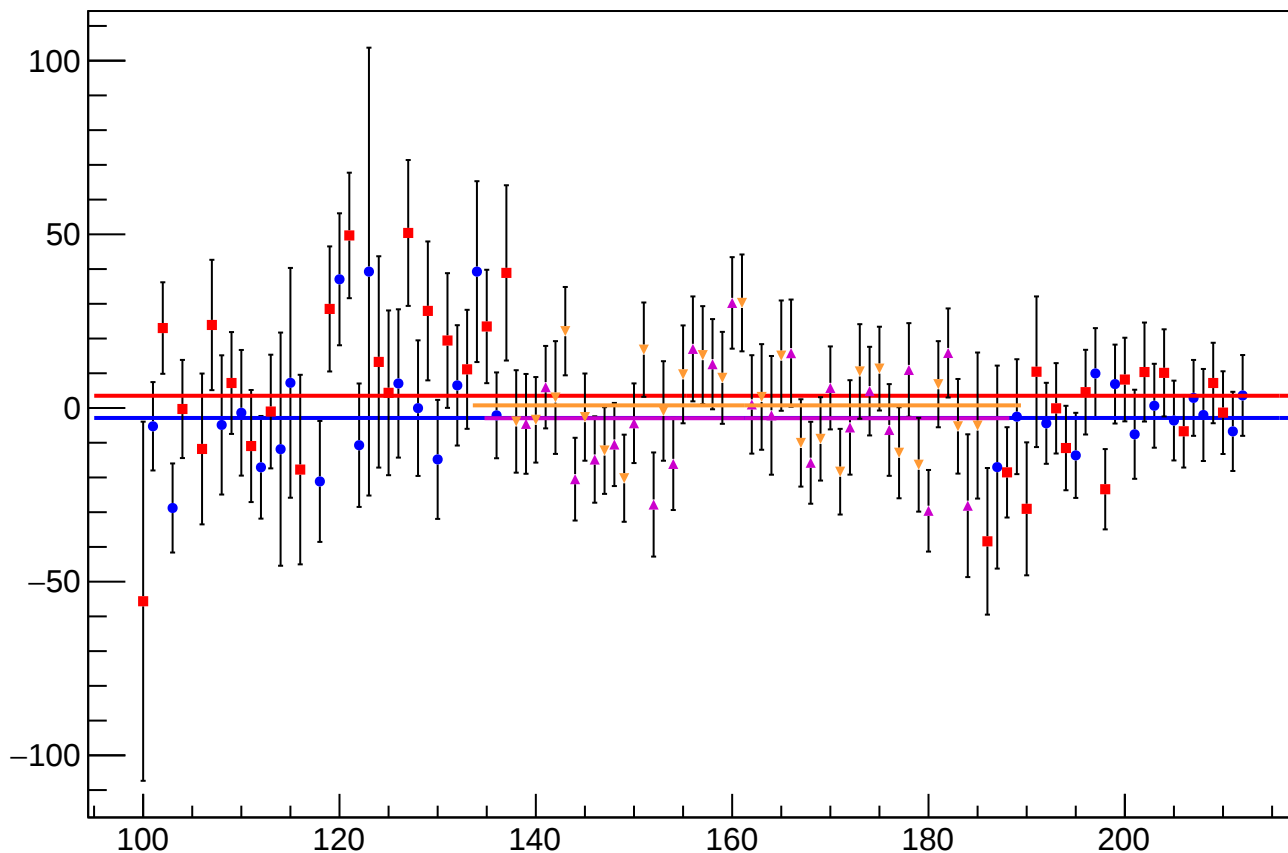
Right: 21.486 $\pm$ 0.003 χ^2 /NDF: 66990.4/62

In: 21.594 $\pm$ 0.003 χ^2 /NDF:56923.9/52

Out: 21.702 $\pm$ 0.003 χ^2 /NDF:57021.0/57

All: 21.649 $\pm$ 0.002 χ^2 /NDF: 114795.1/110

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.869 ± 2.718 χ^2/NDF : 18.7/29

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 3.525 ± 2.706 χ^2/NDF : 44.9/32

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

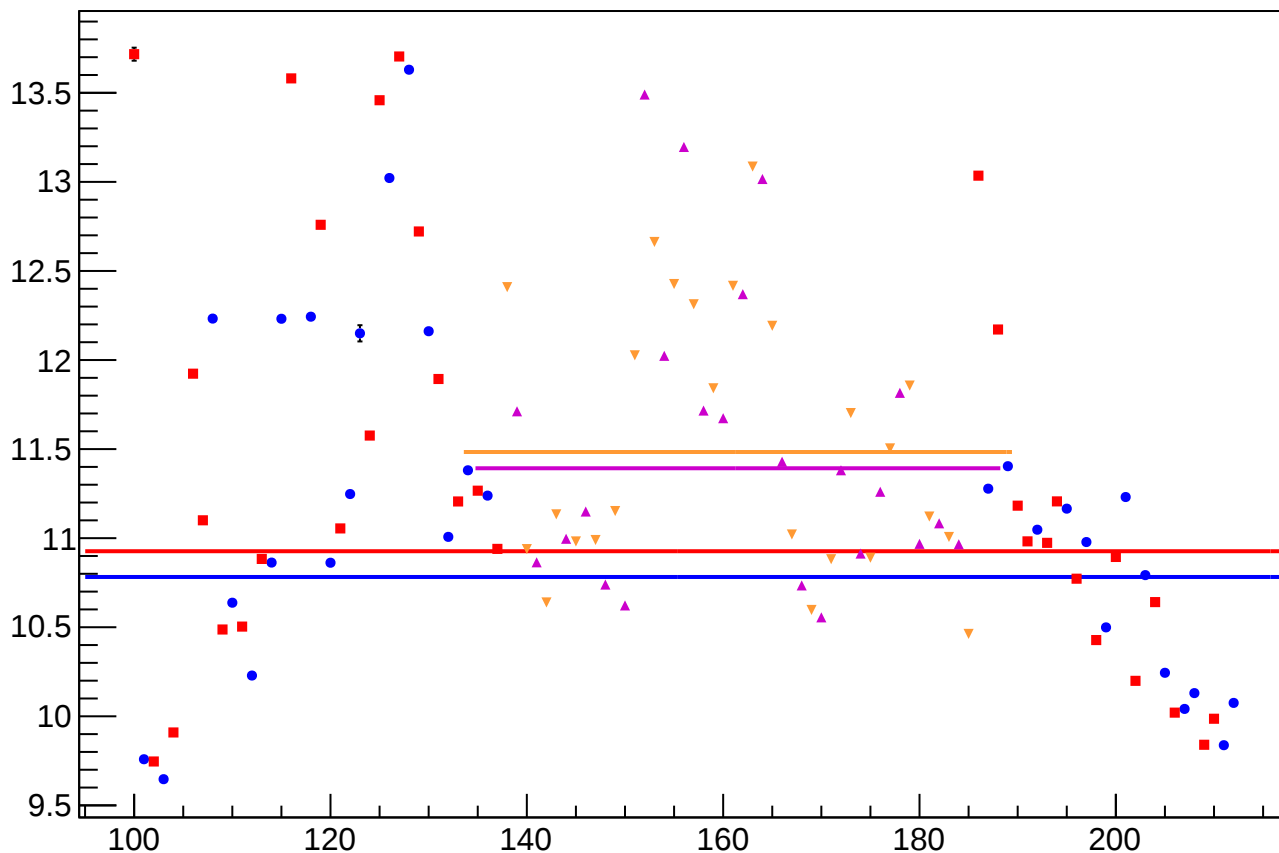
Right: 0.342 ± 1.918 χ^2/NDF : 66.3/62

In: -2.906 ± 1.936 χ^2/NDF : 49.6/52

Out: 2.138 ± 1.911 χ^2/NDF : 69.2/57

All: -0.351 ± 1.360 χ^2/NDF : 122.3/110

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.782 $\pm$ 0.002 χ^2 /NDF: 193997.9/29

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.927 $\pm$ 0.002 χ^2 /NDF: 255873.2/32

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

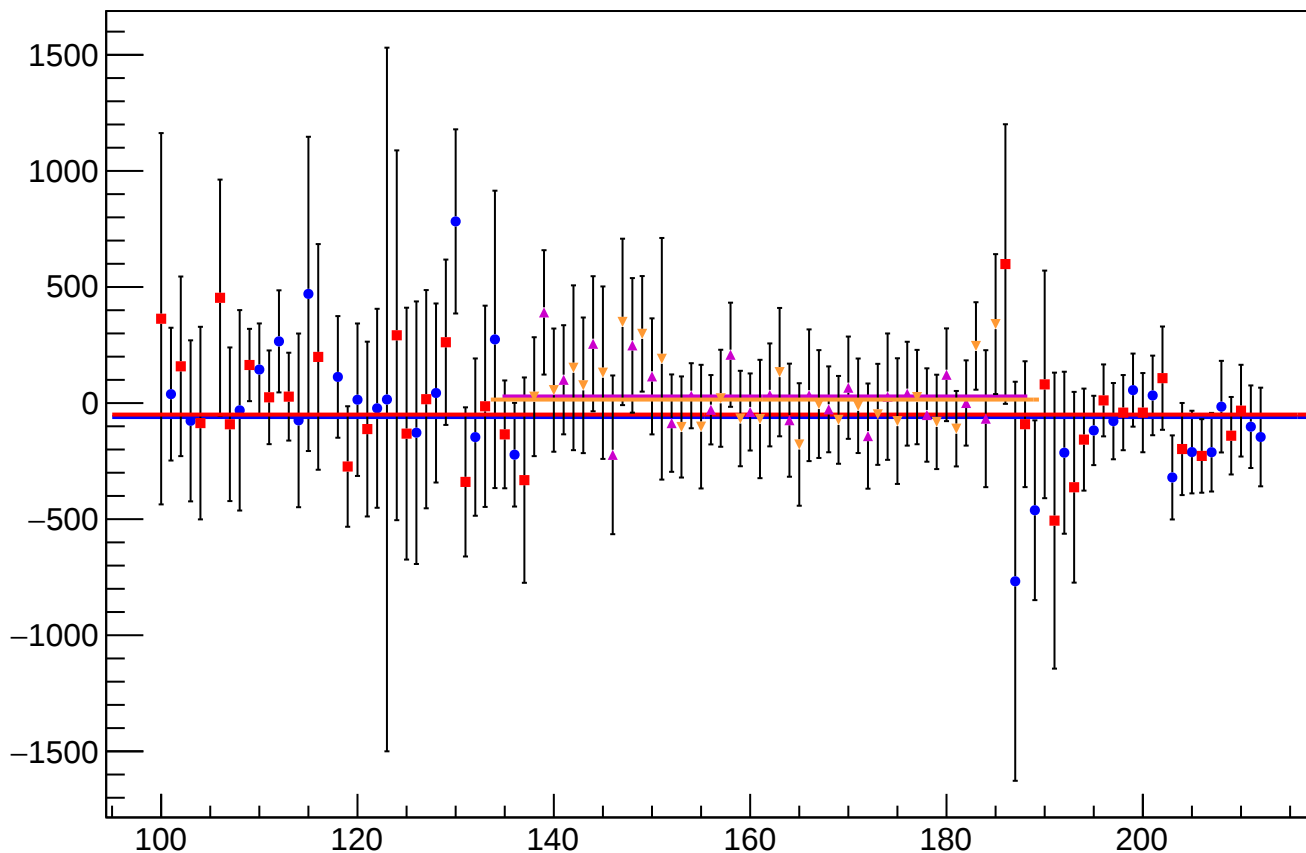
Right: 10.855 $\pm$ 0.001 χ^2 /NDF: 452713.1/62

In: 11.083 $\pm$ 0.001 χ^2 /NDF:394177.5/52

Out: 11.206 $\pm$ 0.001 χ^2 /NDF:428172.6/57

All: 11.145 $\pm$ 0.001 χ^2 /NDF: 826450.0/110

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.184 ± 44.396 $\chi^2/\text{NDF}: 16.8/29$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -49.515 ± 44.121 $\chi^2/\text{NDF}: 12.5/32$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

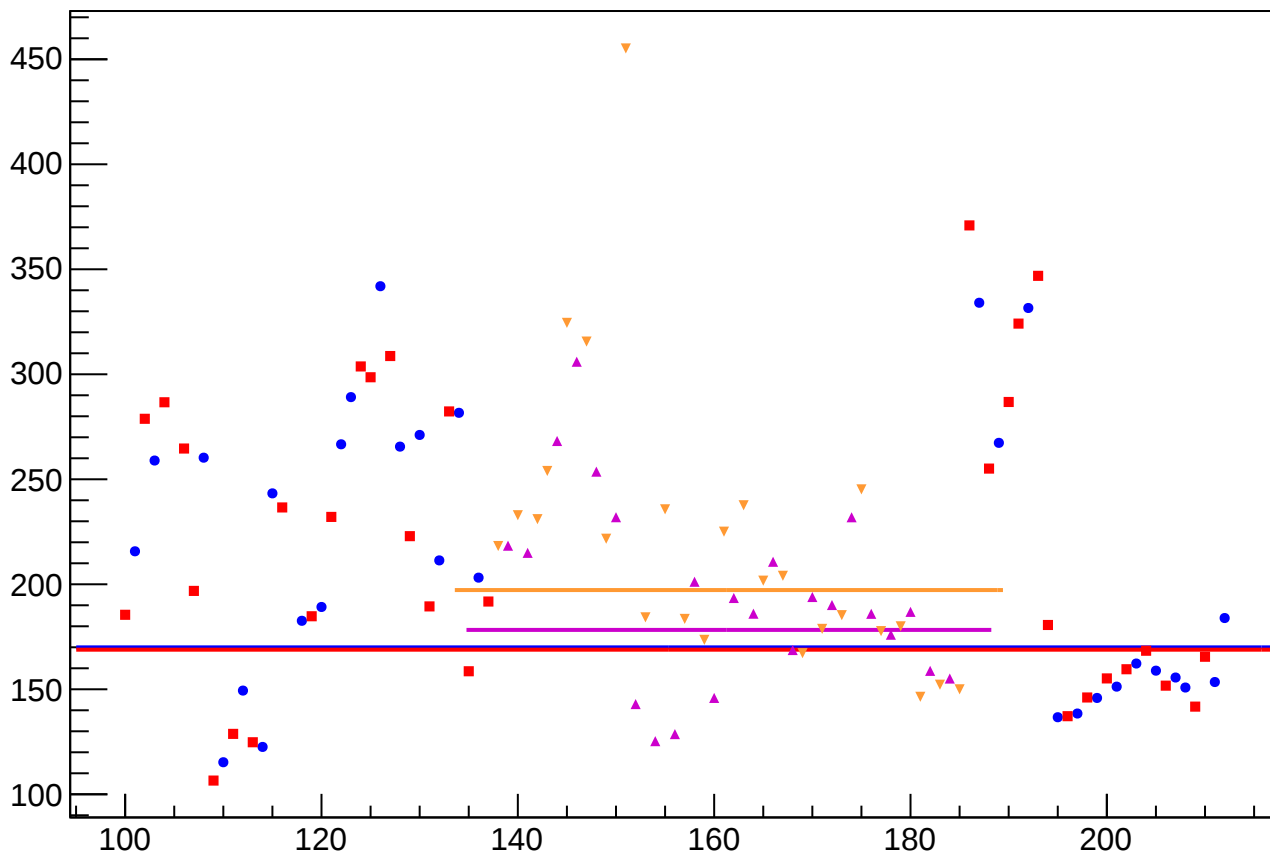
Right: -54.816 ± 31.295 $\chi^2/\text{NDF}: 29.3/62$

In: -16.240 ± 31.534 $\chi^2/\text{NDF}: 25.1/52$

Out: -19.711 ± 32.391 $\chi^2/\text{NDF}: 21.5/57$

All: -17.929 ± 22.595 $\chi^2/\text{NDF}: 46.6/110$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.957 $\pm$ 0.031 χ^2 /NDF: 2136283.3/29

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 168.857 $\pm$ 0.031 χ^2 /NDF: 2828370.4/32

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

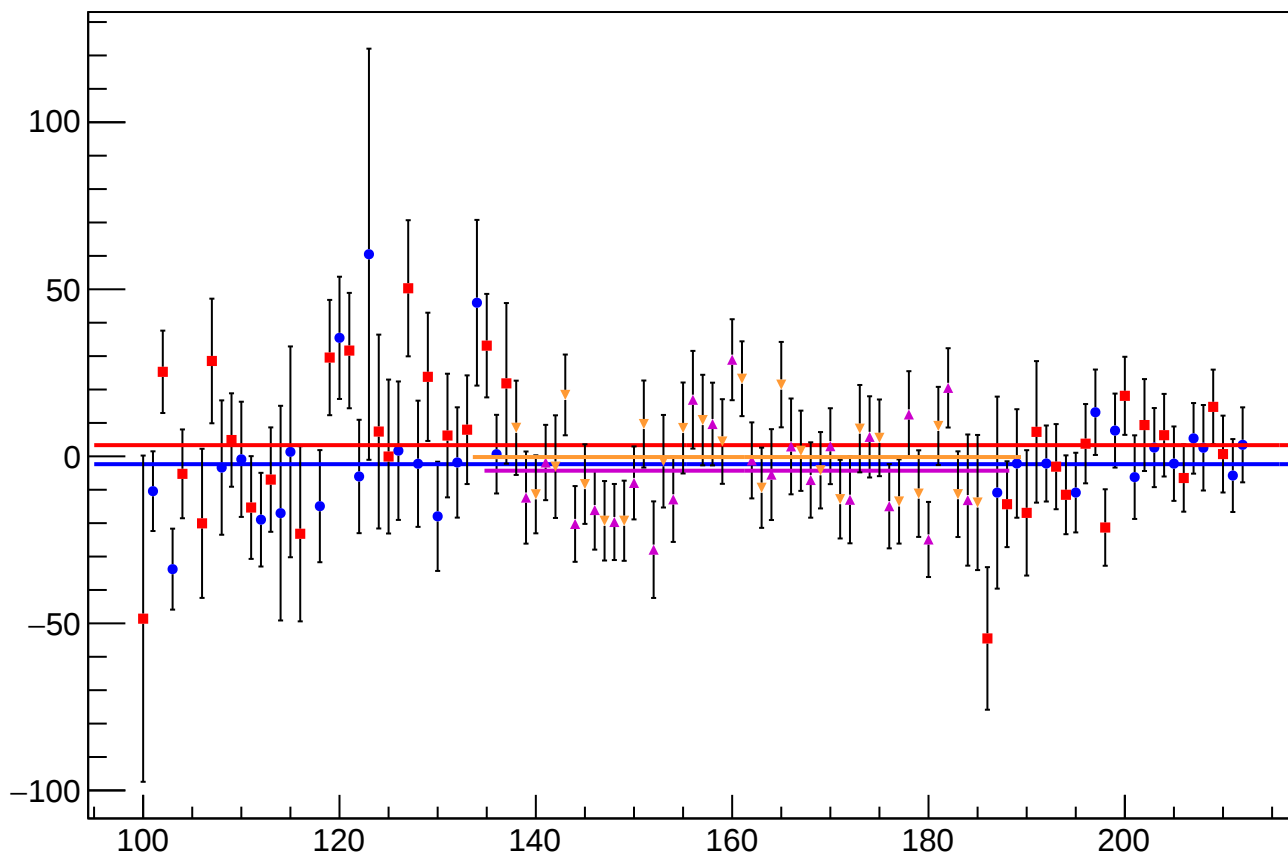
Right: 169.403 $\pm$ 0.022 χ^2 /NDF: 4965271.7/62

In: 174.080 $\pm$ 0.022 χ^2 /NDF:3800005.3/52

Out: 181.947 $\pm$ 0.023 χ^2 /NDF:4997013.2/57

All: 177.908 $\pm$ 0.016 χ^2 /NDF: 8857591.1/110

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.346 ± 2.622 $\chi^2/\text{NDF}: 23.8/29$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.349 ± 2.618 $\chi^2/\text{NDF}: 47.3/32$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

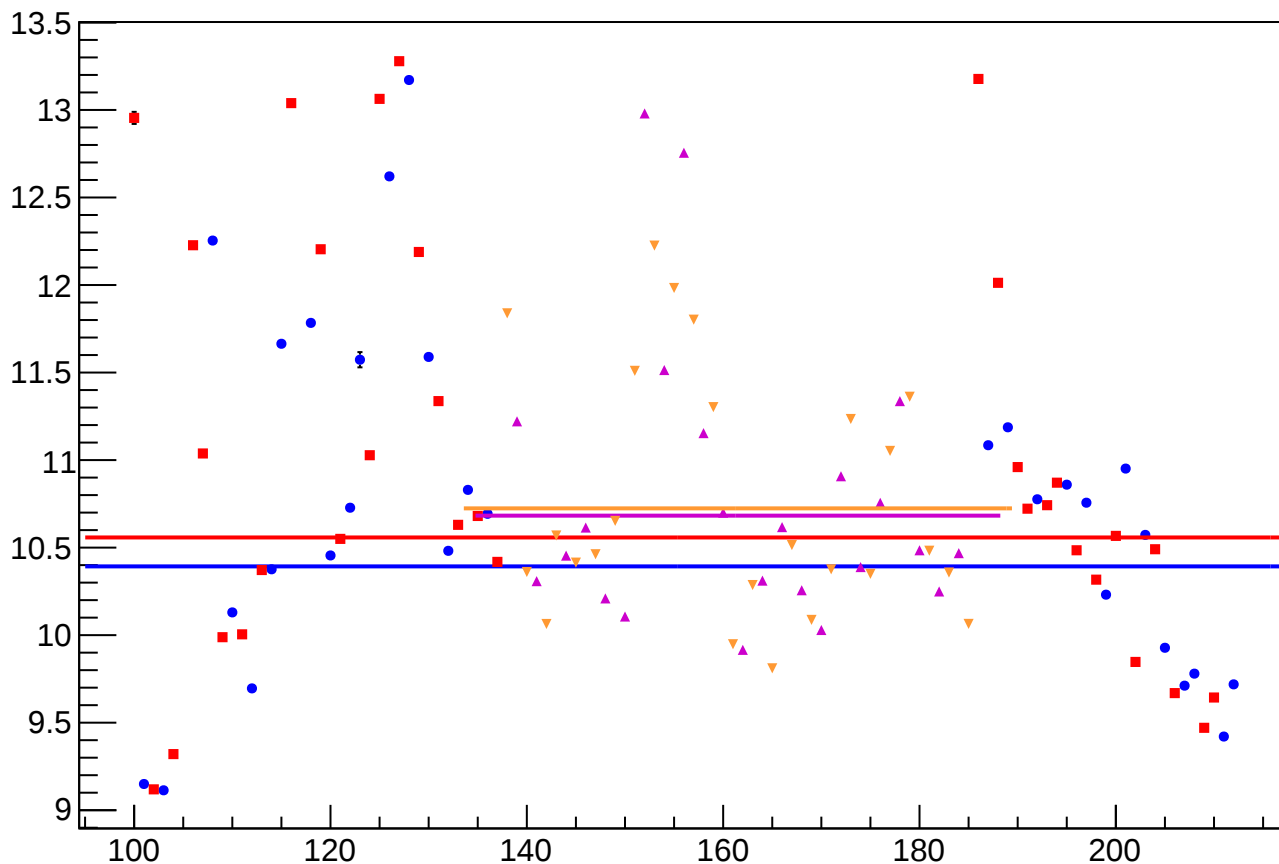
Right: 0.506 ± 1.853 $\chi^2/\text{NDF}: 73.4/62$

In: -3.335 ± 1.842 $\chi^2/\text{NDF}: 55.6/52$

Out: 1.503 ± 1.817 $\chi^2/\text{NDF}: 72.8/57$

All: -0.882 ± 1.294 $\chi^2/\text{NDF}: 131.9/110$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.393 ± 0.002 $\chi^2/\text{NDF}: 221375.4/29$

Left Out: 10.724 ± 0.002 $\chi^2/\text{NDF}: 132558.9/24$

Right Out: 10.558 ± 0.002 $\chi^2/\text{NDF}: 294468.3/32$

Left In: 10.683 ± 0.002 $\chi^2/\text{NDF}: 147835.6/22$

Left: 10.704 ± 0.001 $\chi^2/\text{NDF}: 280658.8/47$

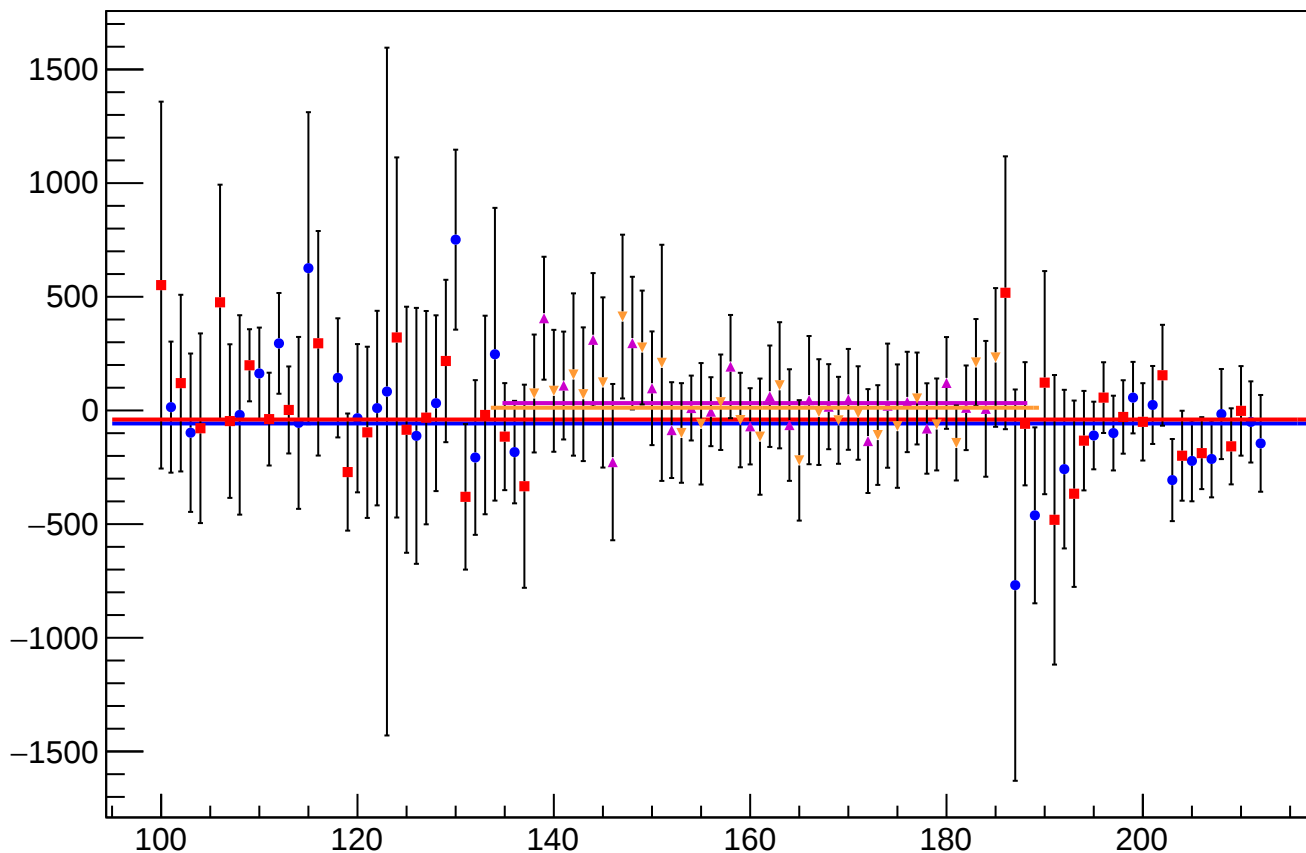
Right: 10.476 ± 0.001 $\chi^2/\text{NDF}: 519821.0/62$

In: 10.540 ± 0.001 $\chi^2/\text{NDF}: 381584.2/52$

Out: 10.644 ± 0.001 $\chi^2/\text{NDF}: 431204.9/57$

All: 10.593 ± 0.001 $\chi^2/\text{NDF}: 816057.0/110$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.248 ± 44.477 $\chi^2/\text{NDF}: 17.3/29$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -39.865 ± 44.262 $\chi^2/\text{NDF}: 13.2/32$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

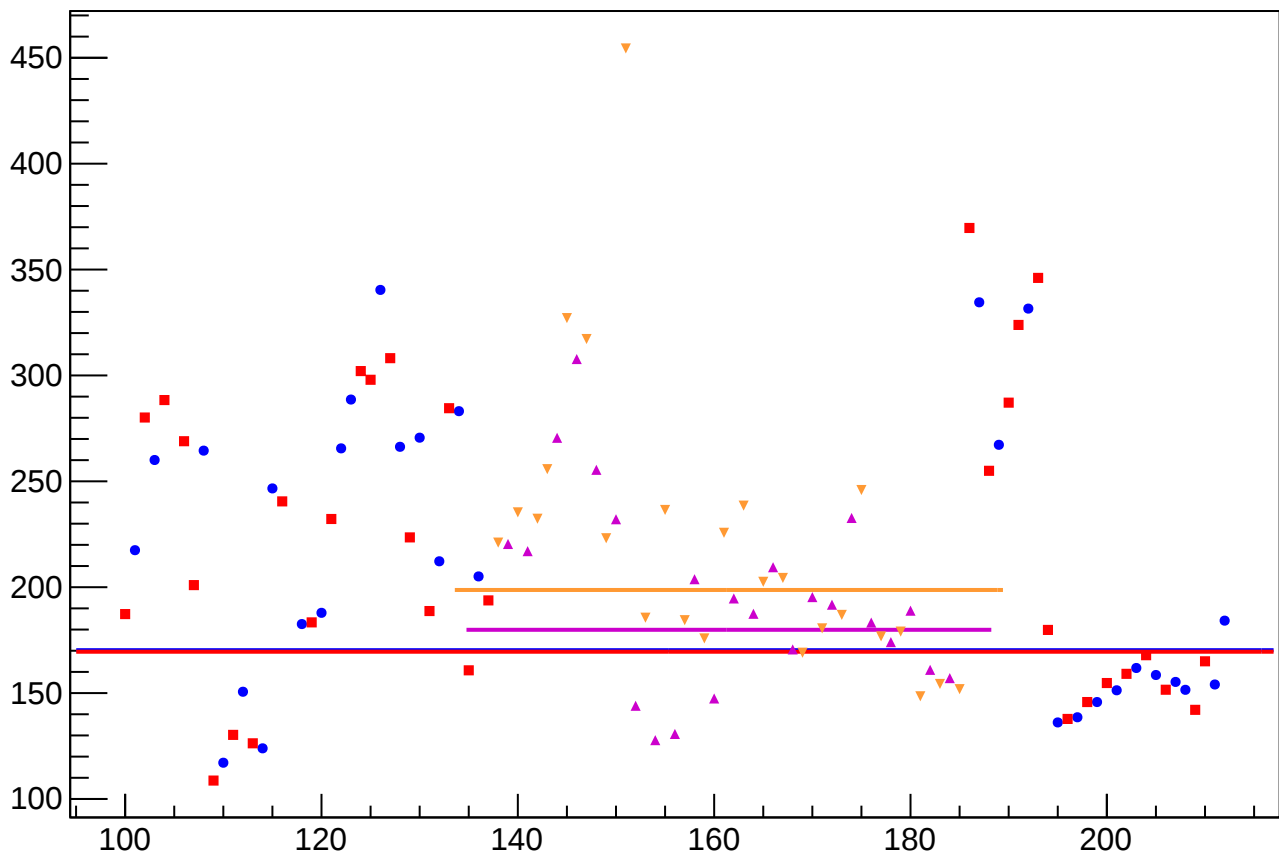
Right: -48.514 ± 31.374 $\chi^2/\text{NDF}: 30.5/62$

In: -13.096 ± 31.687 $\chi^2/\text{NDF}: 26.2/52$

Out: -16.093 ± 32.546 $\chi^2/\text{NDF}: 21.5/57$

All: -14.554 ± 22.704 $\chi^2/\text{NDF}: 47.6/110$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.269+/-0.031 χ^2/NDF : 2134357.7/29

Left Out: 198.695+/-0.034 χ^2/NDF :1759311.9/24

Right Out: 169.534+/-0.031 χ^2/NDF : 2788436.8/32

Left In: 179.886+/-0.032 χ^2/NDF :1580636.4/22

Left: 188.712+/-0.023 χ^2/NDF : 3502782.6/47

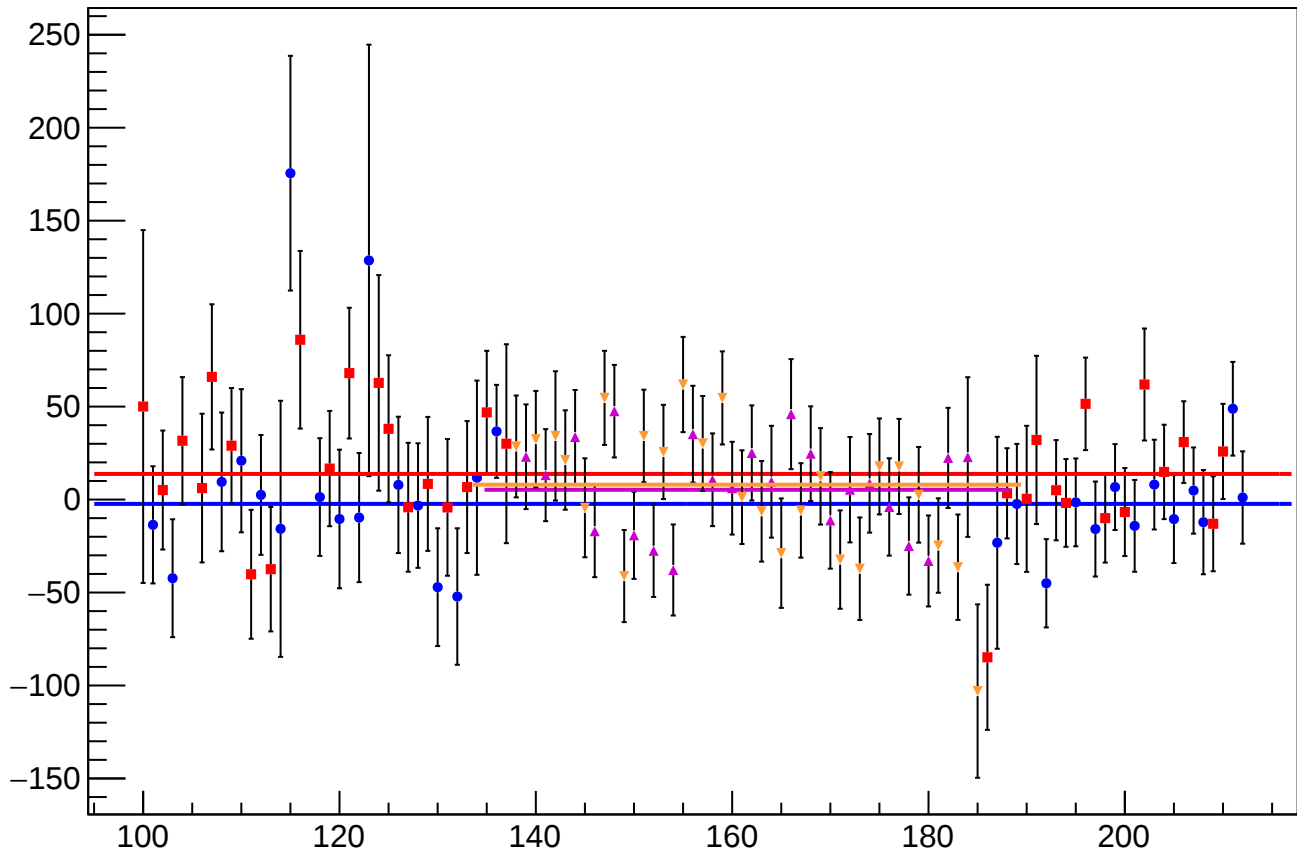
Right: 169.900+/-0.022 χ^2/NDF : 4923068.7/62

In: 175.005+/-0.022 χ^2/NDF :3761047.1/52

Out: 182.928+/-0.023 χ^2/NDF :4946487.7/57

All: 178.861+/-0.016 χ^2/NDF : 8768389.9/110

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.327 ± 5.547 χ^2/NDF : 26.7/29

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.786 ± 5.488 χ^2/NDF : 30.6/32

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

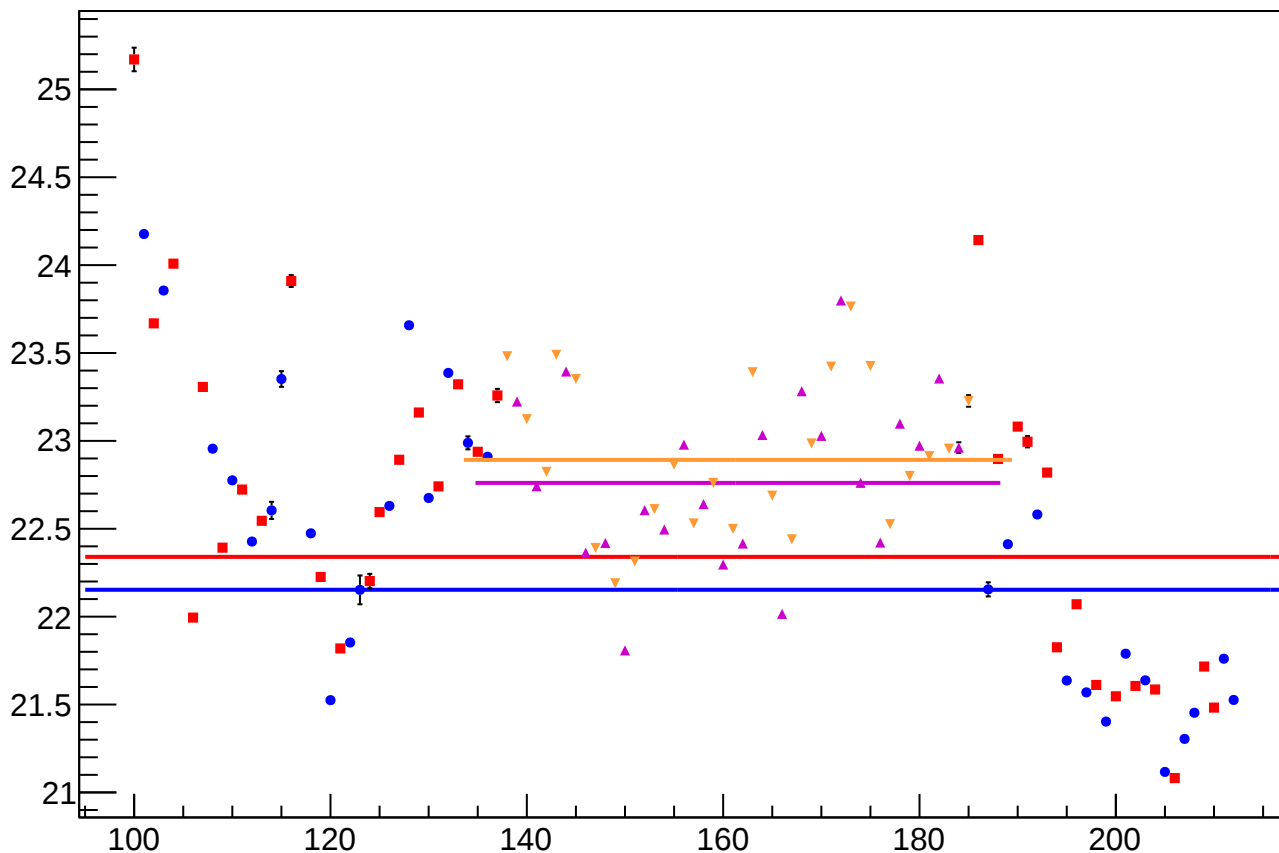
Right: 5.817 ± 3.901 χ^2/NDF : 61.6/62

In: 1.524 ± 3.893 χ^2/NDF : 48.4/52

Out: 10.813 ± 3.825 χ^2/NDF : 68.7/57

All: 6.250 ± 2.728 χ^2/NDF : 119.9/110

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.153+/-0.004 χ^2/NDF : 42632.7/29

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.340+/-0.004 χ^2/NDF : 44287.7/32

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

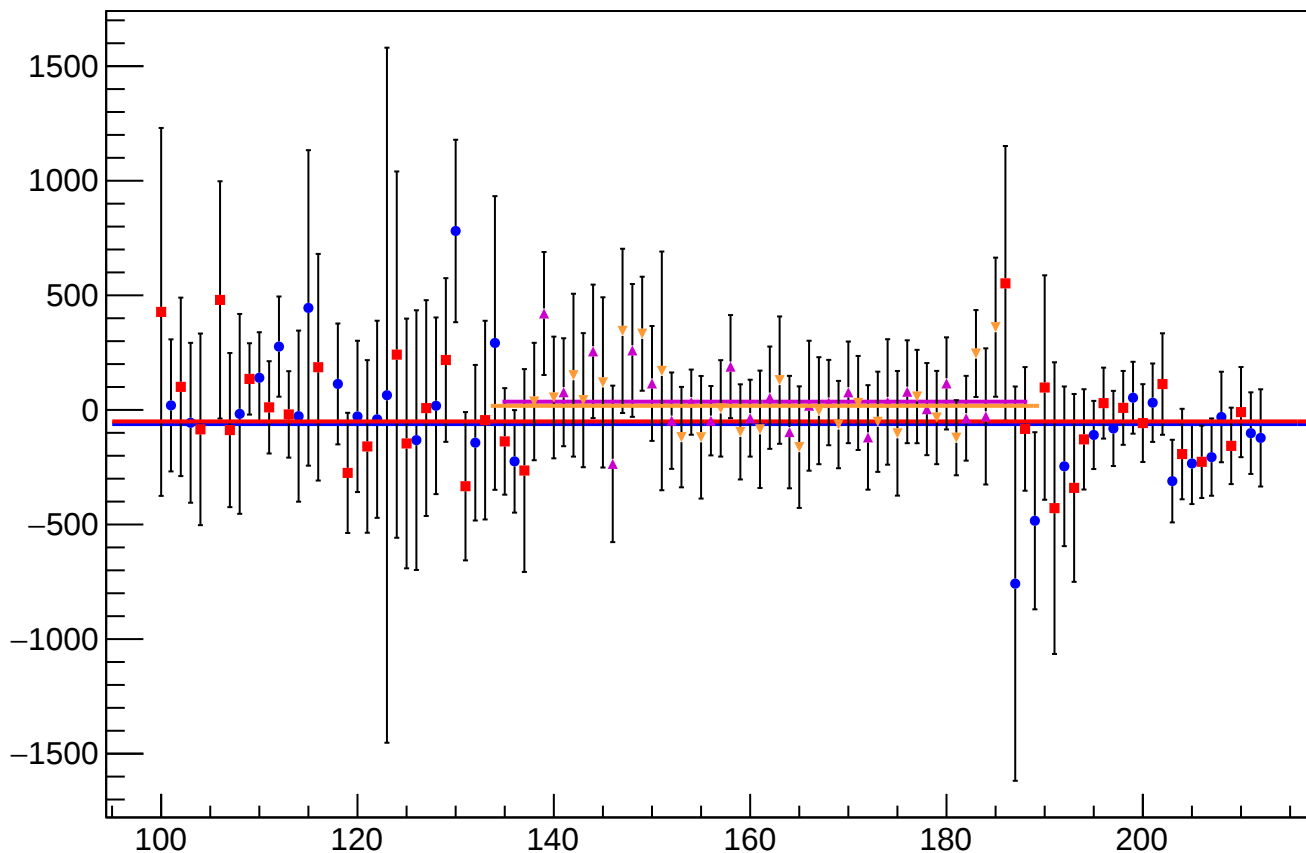
Right: 22.248+/-0.003 χ^2/NDF : 88073.2/62

In: 22.461+/-0.003 χ^2/NDF :69376.1/52

Out: 22.624+/-0.003 χ^2/NDF :67676.0/57

All: 22.544+/-0.002 χ^2/NDF : 138823.5/110

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.736 ± 44.348 $\chi^2/\text{NDF}: 16.8/29$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -50.244 ± 44.070 $\chi^2/\text{NDF}: 11.3/32$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

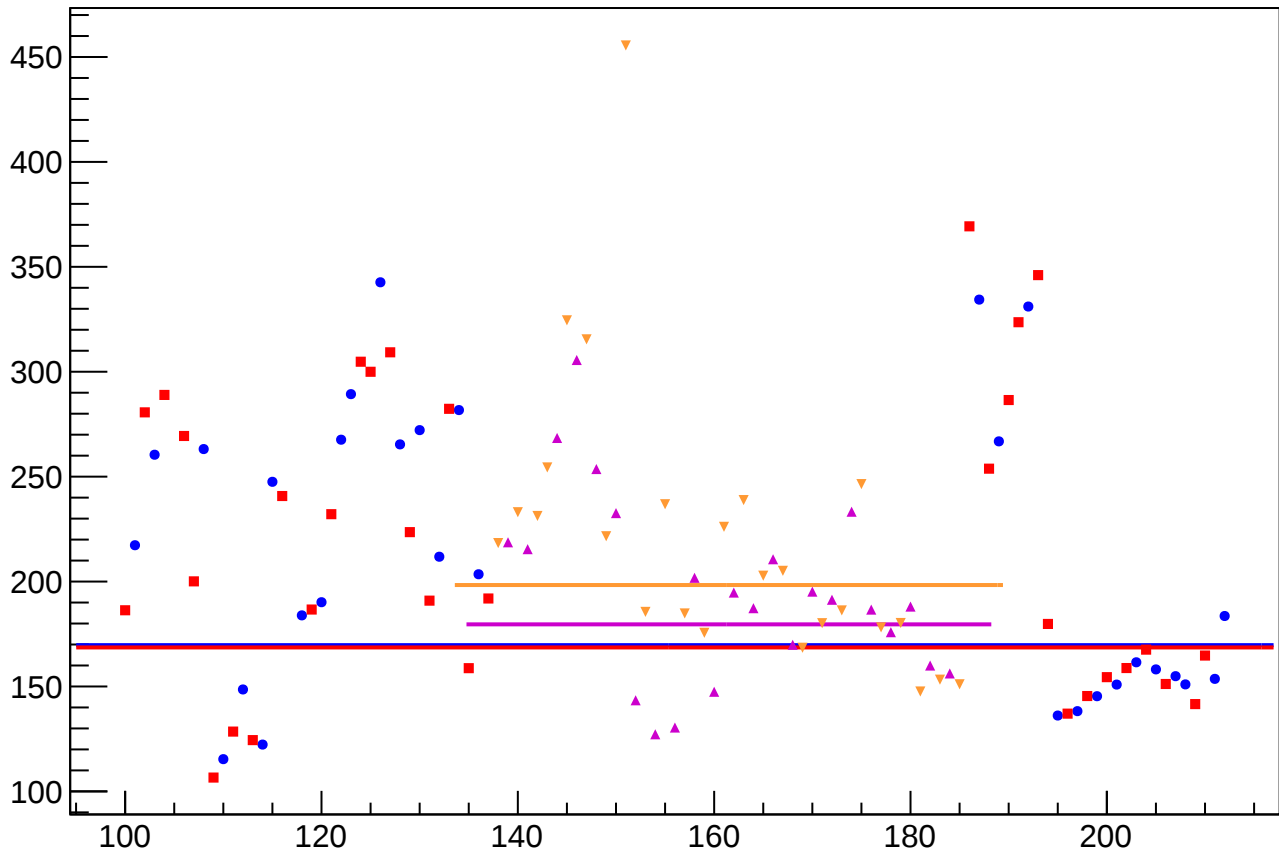
Right: -55.954 ± 31.260 $\chi^2/\text{NDF}: 28.1/62$

In: -13.736 ± 31.617 $\chi^2/\text{NDF}: 25.5/52$

Out: -19.090 ± 32.445 $\chi^2/\text{NDF}: 20.9/57$

All: -16.344 ± 22.643 $\chi^2/\text{NDF}: 46.4/110$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.698+/-0.031 χ^2/NDF : 2164346.7/29

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 168.601+/-0.031 χ^2/NDF : 2855887.7/32

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

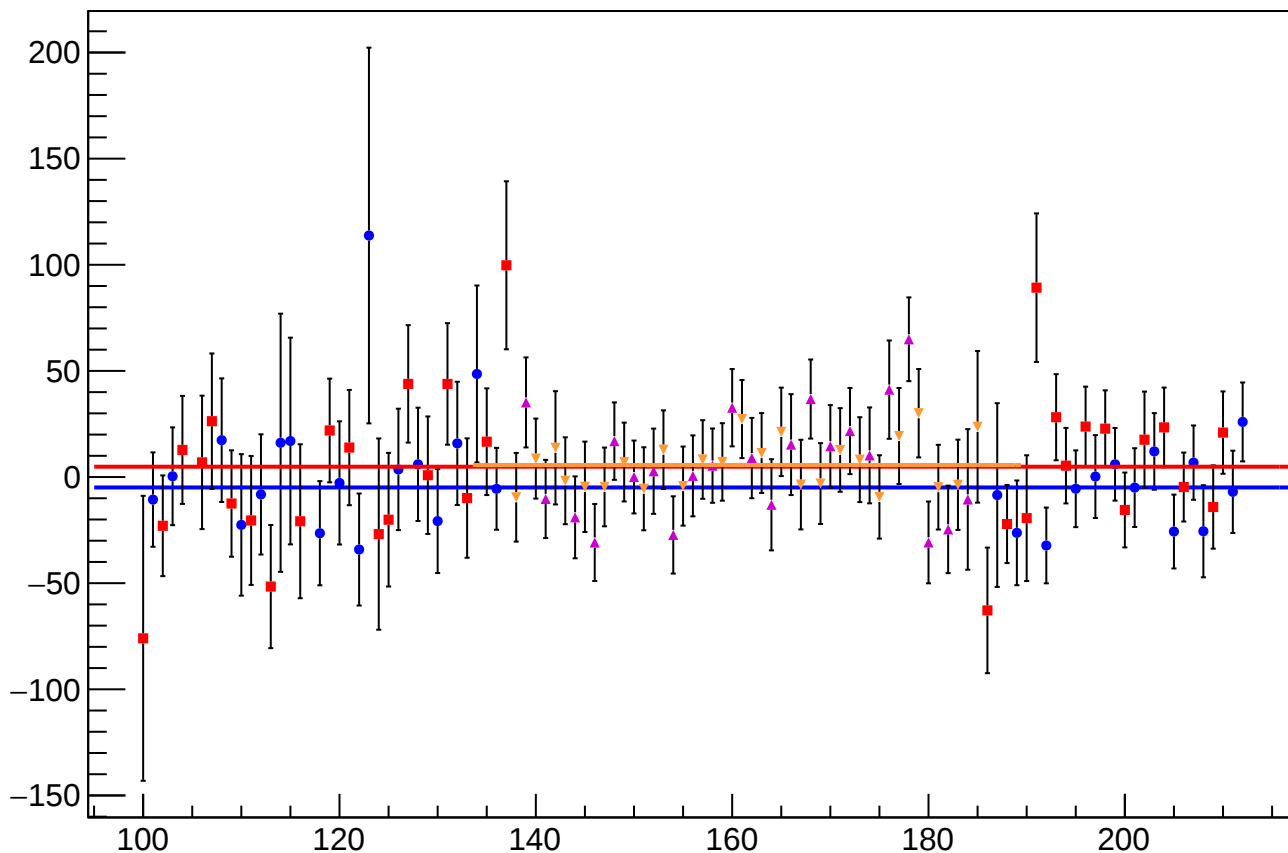
Right: 169.146+/-0.022 χ^2/NDF : 5020849.9/62

In: 174.569+/-0.022 χ^2/NDF : 3789172.8/52

Out: 182.223+/-0.023 χ^2/NDF : 5030561.9/57

All: 178.297+/-0.016 χ^2/NDF : 8876823.0/110

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.907 ± 4.236 $\chi^2/\text{NDF}: 18.0/29$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.867 ± 4.203 $\chi^2/\text{NDF}: 42.5/32$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

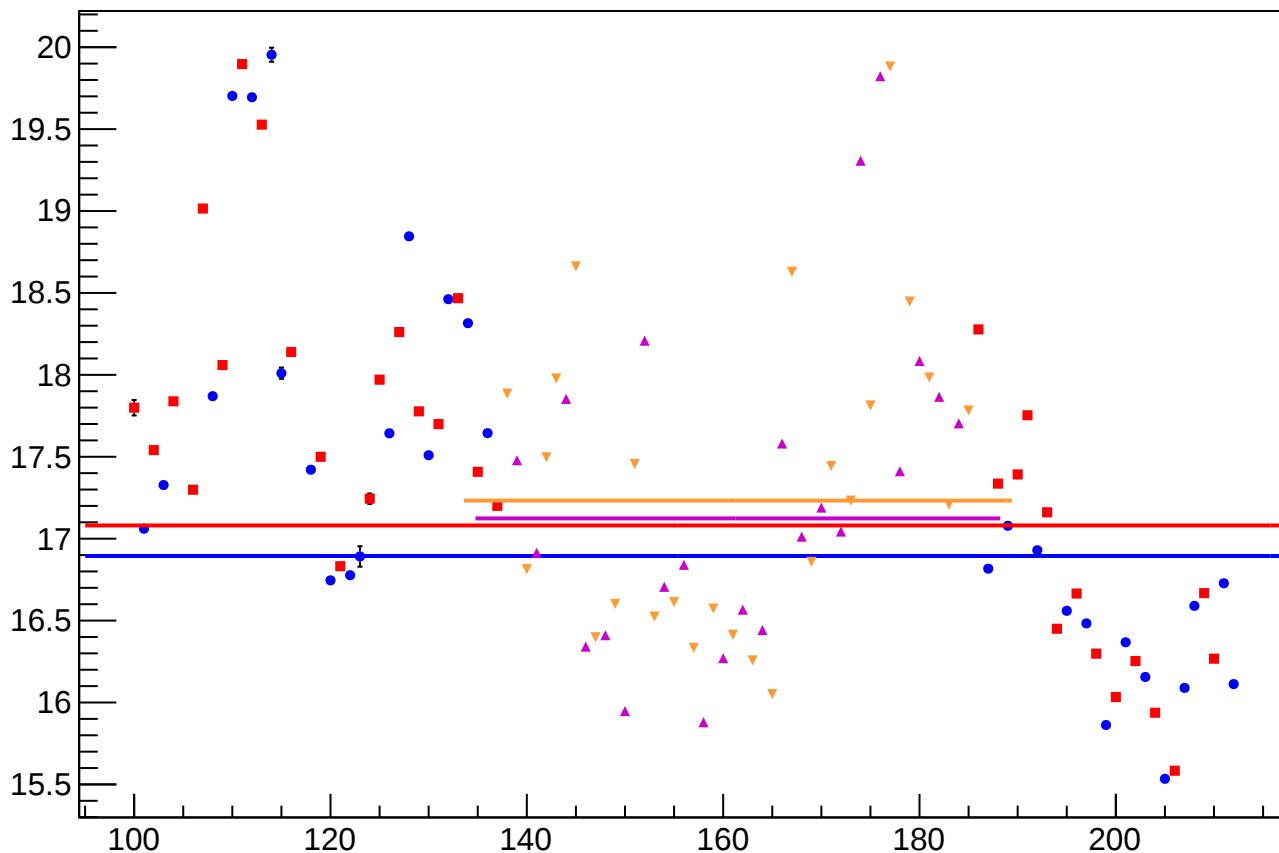
Right: 0.019 ± 2.984 $\chi^2/\text{NDF}: 63.1/62$

In: 0.488 ± 2.954 $\chi^2/\text{NDF}: 57.5/52$

Out: 5.291 ± 2.906 $\chi^2/\text{NDF}: 50.2/57$

All: 2.929 ± 2.072 $\chi^2/\text{NDF}: 109.1/110$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.894 $\pm$ 0.003 χ^2 /NDF: 102917.0/29

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.081 $\pm$ 0.003 χ^2 /NDF: 110275.1/32

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

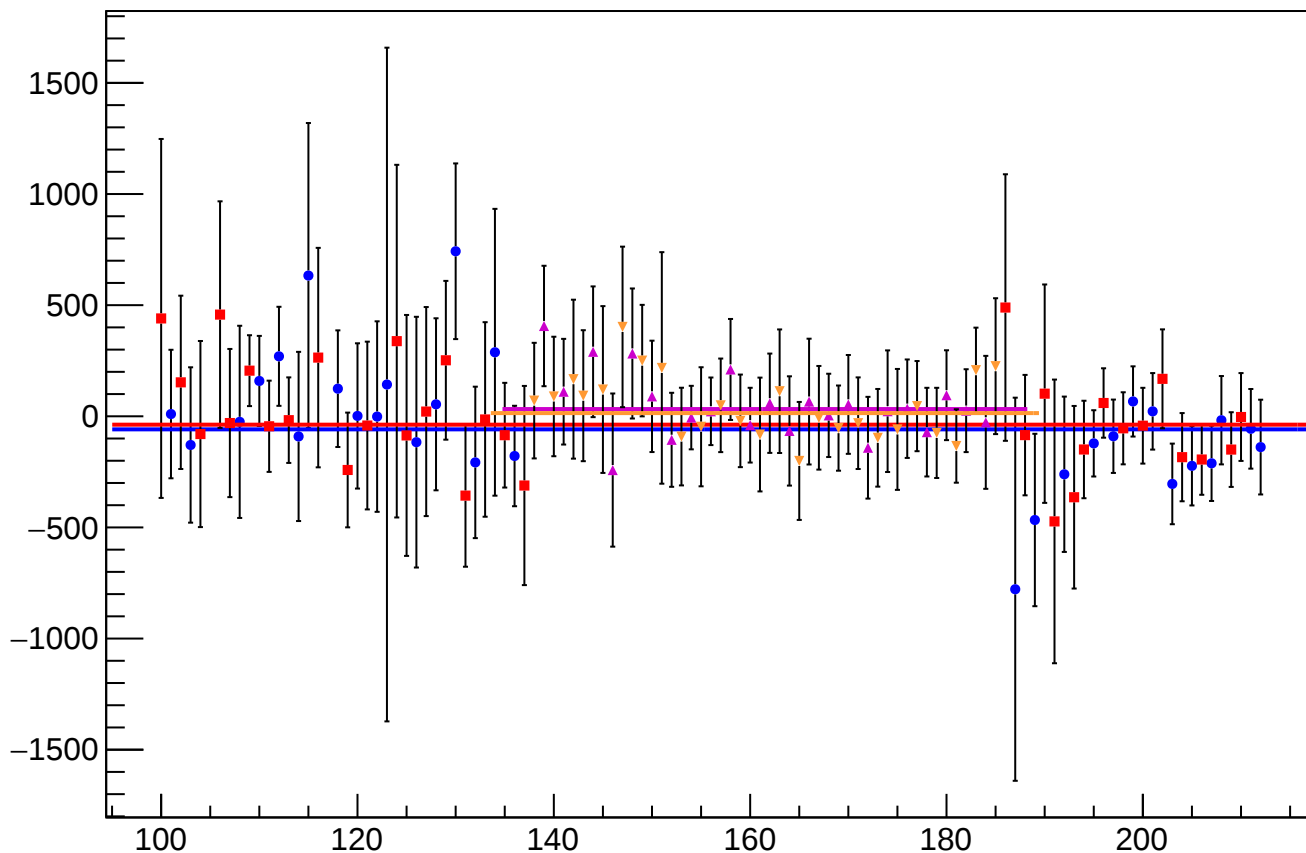
Right: 16.988 $\pm$ 0.002 χ^2 /NDF: 215142.7/62

In: 17.012 $\pm$ 0.002 χ^2 /NDF:206673.8/52

Out: 17.160 $\pm$ 0.002 χ^2 /NDF:210334.7/57

All: 17.087 $\pm$ 0.001 χ^2 /NDF: 419548.8/110

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.780 $\pm$ 44.609 χ^2 /NDF: 16.9/29

Left Out: 14.362 $\pm$ 48.130 χ^2 /NDF:6.9/24

Right Out: -37.698 $\pm$ 44.379 χ^2 /NDF: 12.7/32

Left In: 32.571 $\pm$ 45.248 χ^2 /NDF:6.7/22

Left: 24.028 $\pm$ 32.967 χ^2 /NDF: 13.7/47

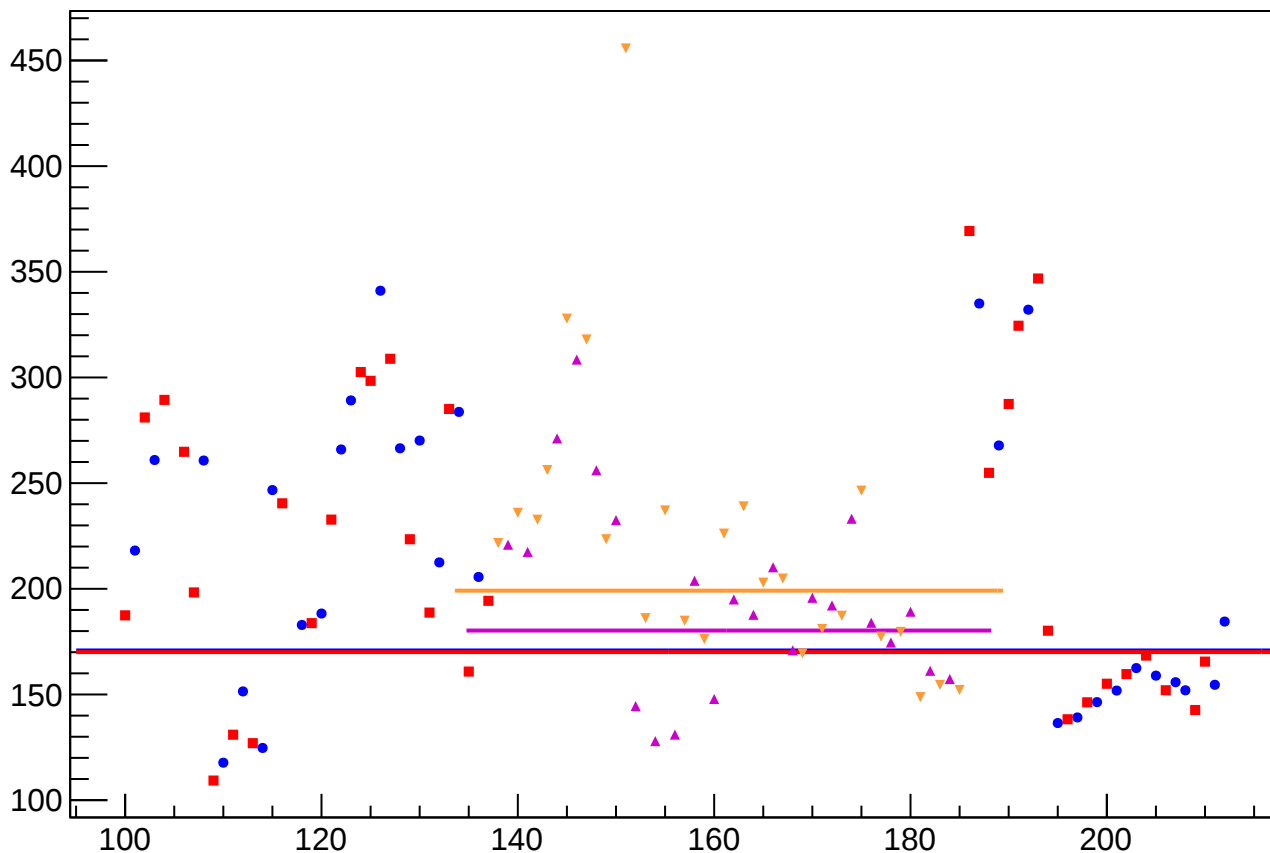
Right: -48.184 $\pm$ 31.461 χ^2 /NDF: 29.7/62

In: -13.754 $\pm$ 31.767 χ^2 /NDF:25.6/52

Out: -13.775 $\pm$ 32.626 χ^2 /NDF:20.3/57

All: -13.764 $\pm$ 22.760 χ^2 /NDF: 45.9/110

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.825+/-0.032 χ^2/NDF : 2116087.9/29

Left Out: 199.136+/-0.034 χ^2/NDF :1760298.1/24

Right Out: 170.049+/-0.031 χ^2/NDF : 2763833.4/32

Left In: 180.256+/-0.032 χ^2/NDF :1580553.5/22

Left: 189.114+/-0.023 χ^2/NDF : 3504211.1/47

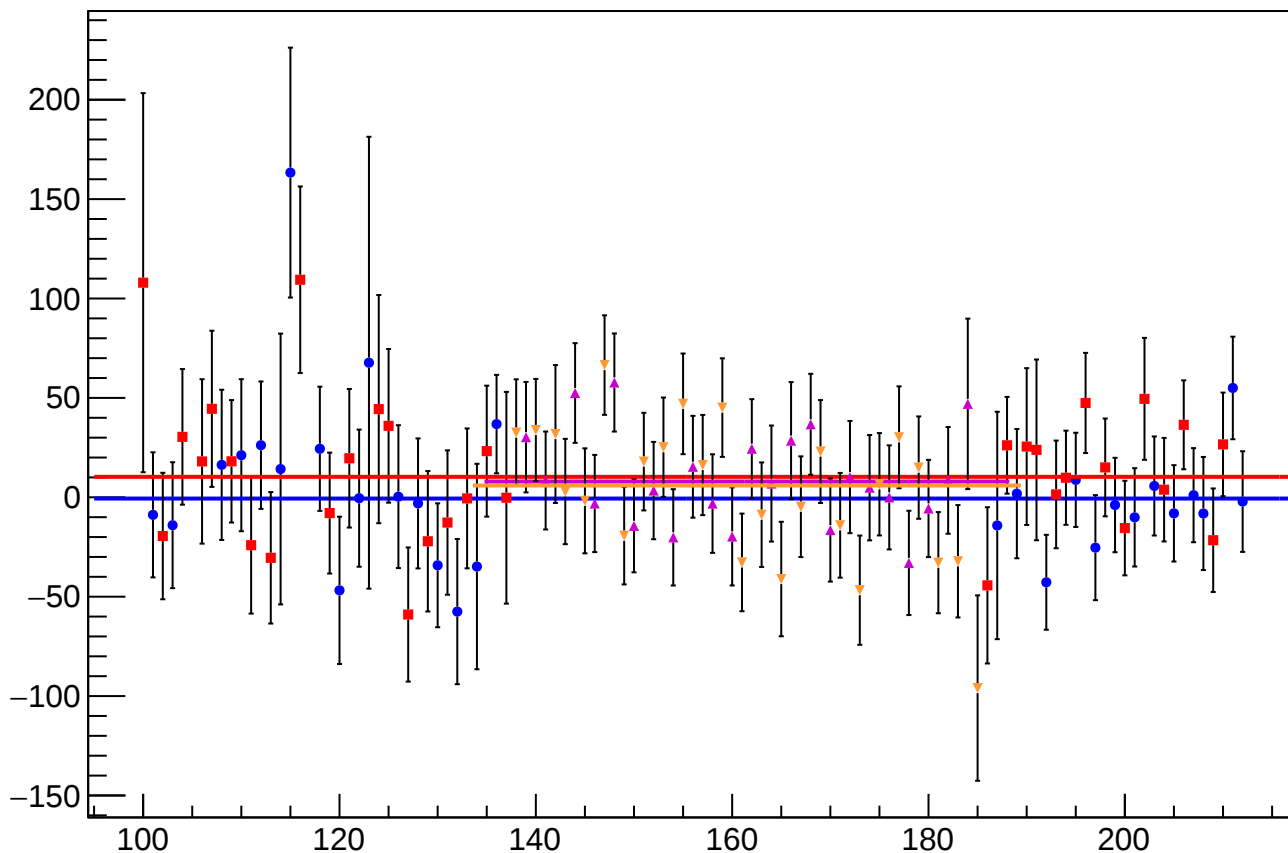
Right: 170.435+/-0.022 χ^2/NDF : 4880225.2/62

In: 175.474+/-0.022 χ^2/NDF :3740704.7/52

Out: 183.415+/-0.023 χ^2/NDF :4918921.2/57

All: 179.338+/-0.016 χ^2/NDF : 8720455.2/110

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.634 ± 5.588 χ^2/NDF : 26.5/29

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 10.300 ± 5.510 χ^2/NDF : 28.1/32

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

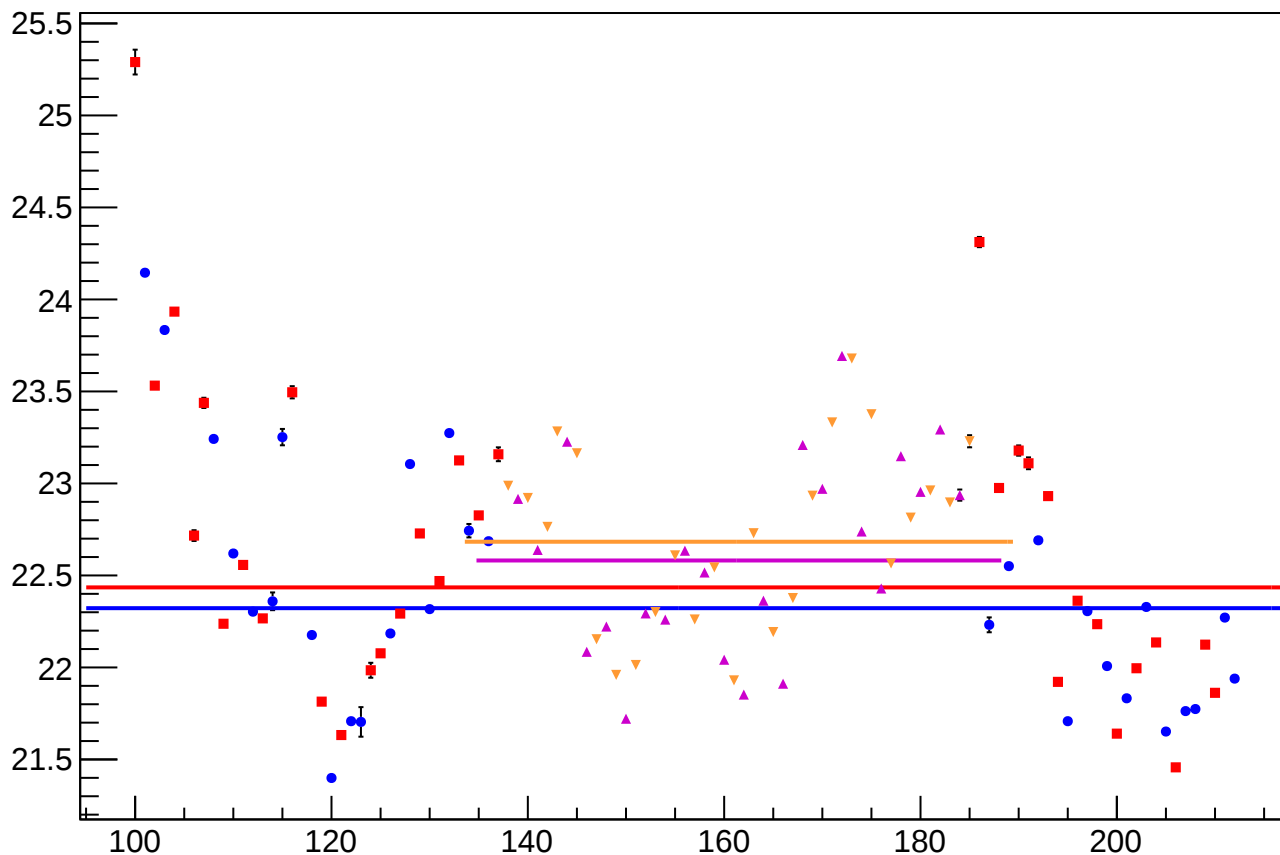
Right: 4.911 ± 3.923 χ^2/NDF : 56.5/62

In: 3.770 ± 3.891 χ^2/NDF : 46.4/52

Out: 8.028 ± 3.814 χ^2/NDF : 64.6/57

All: 5.942 ± 2.724 χ^2/NDF : 111.6/110

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.322 $\pm$ 0.004 χ^2 /NDF: 25006.2/29

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16320.2/24

Right Out: 22.435 $\pm$ 0.004 χ^2 /NDF: 30834.8/32

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF: 17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

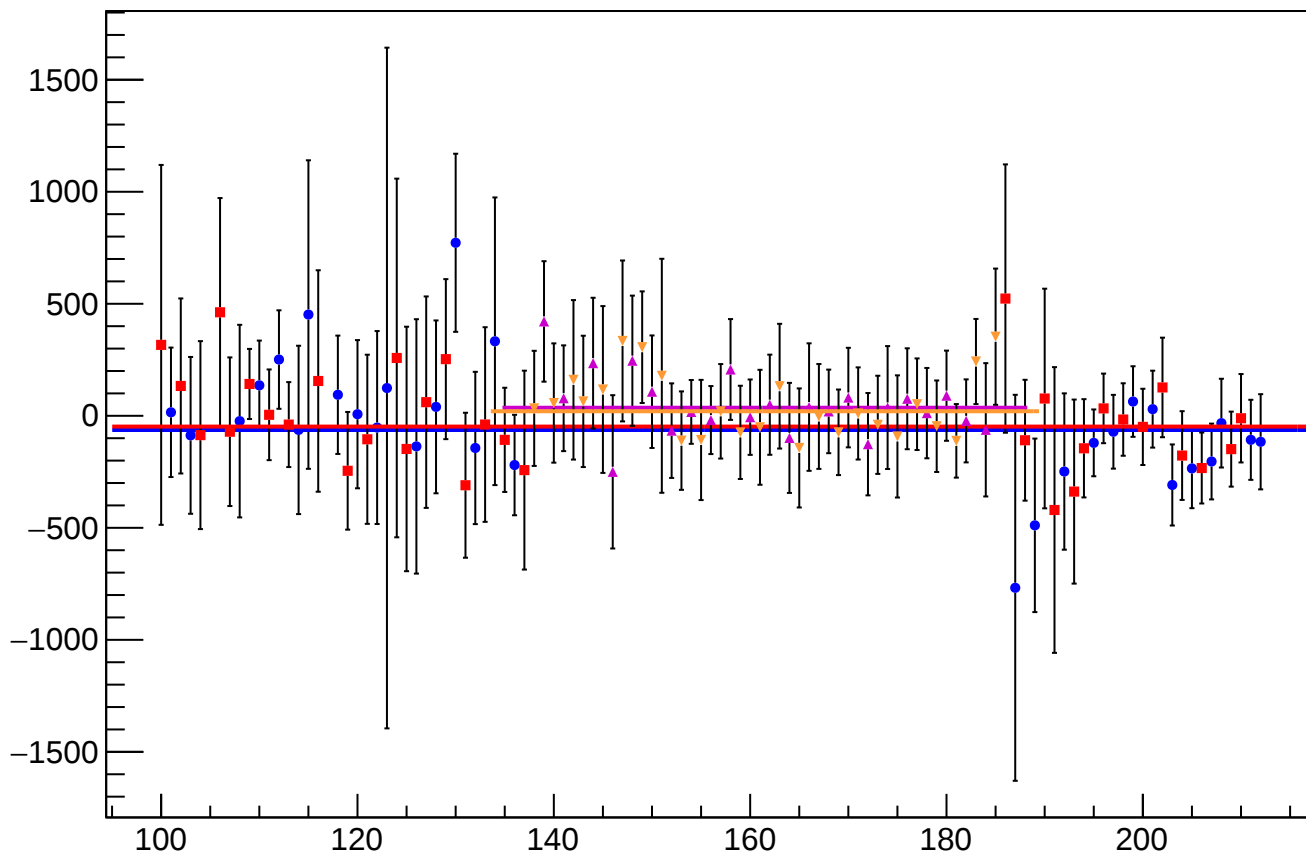
Right: 22.379 $\pm$ 0.003 χ^2 /NDF: 56254.9/62

In: 22.456 $\pm$ 0.003 χ^2 /NDF: 45126.6/52

Out: 22.564 $\pm$ 0.003 χ^2 /NDF: 49268.0/57

All: 22.511 $\pm$ 0.002 χ^2 /NDF: 95189.5/110

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.344 ± 44.480 $\chi^2/\text{NDF}: 16.4/29$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -48.121 ± 44.188 $\chi^2/\text{NDF}: 10.8/32$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

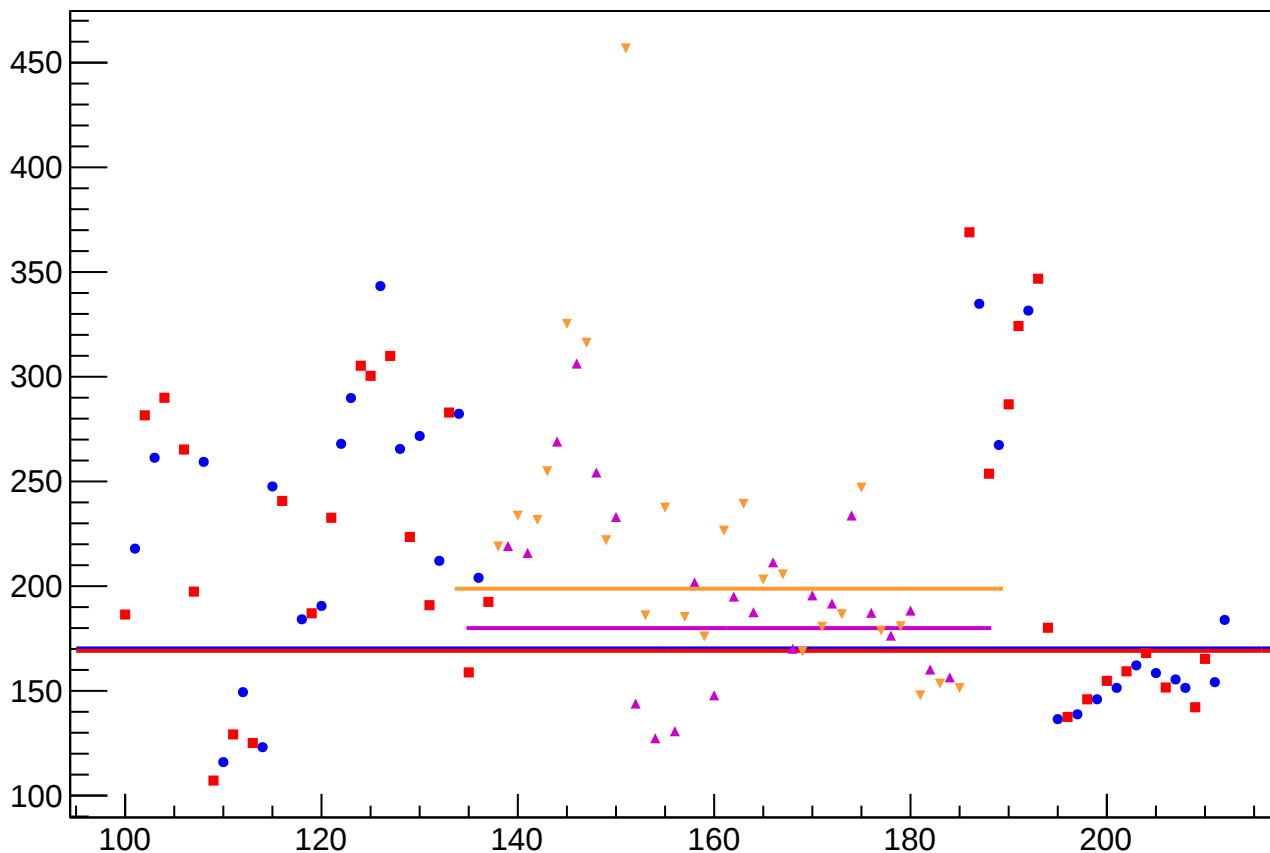
Right: -55.682 ± 31.349 $\chi^2/\text{NDF}: 27.2/62$

In: -14.449 ± 31.697 $\chi^2/\text{NDF}: 24.9/52$

Out: -16.766 ± 32.525 $\chi^2/\text{NDF}: 19.6/57$

All: -15.578 ± 22.700 $\chi^2/\text{NDF}: 44.5/110$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.259+/-0.031 χ^2/NDF : 2145495.2/29

Left Out: 198.784+/-0.034 χ^2/NDF :1758481.8/24

Right Out: 169.123+/-0.031 χ^2/NDF : 2830396.2/32

Left In: 179.972+/-0.032 χ^2/NDF :1575888.3/22

Left: 188.800+/-0.023 χ^2/NDF : 3497081.8/47

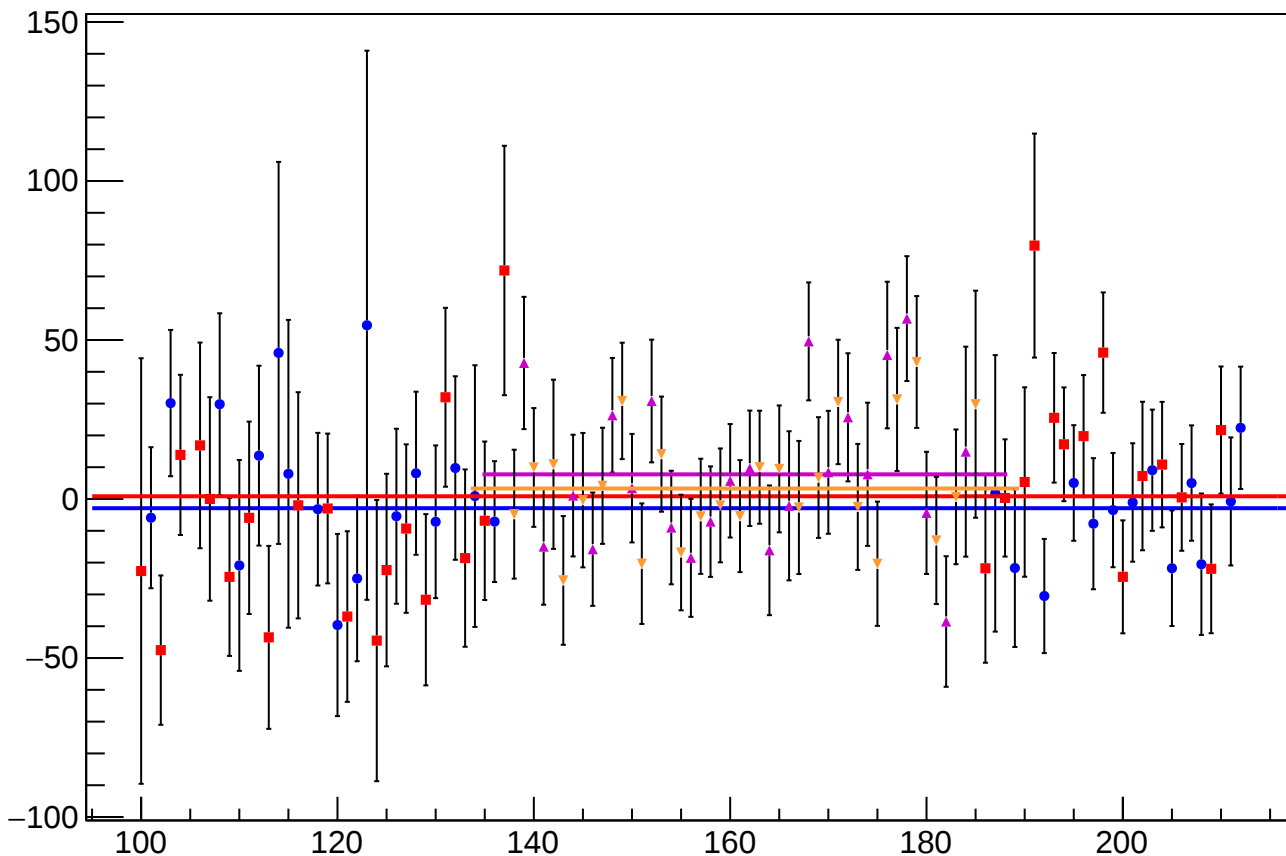
Right: 169.687+/-0.022 χ^2/NDF : 4976548.2/62

In: 175.040+/-0.022 χ^2/NDF :3768325.2/52

Out: 182.714+/-0.023 χ^2/NDF :5001802.6/57

All: 178.778+/-0.016 χ^2/NDF : 8827237.1/110

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.887 ± 4.290 $\chi^2/\text{NDF}: 15.3/29$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.864 ± 4.234 $\chi^2/\text{NDF}: 38.0/32$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

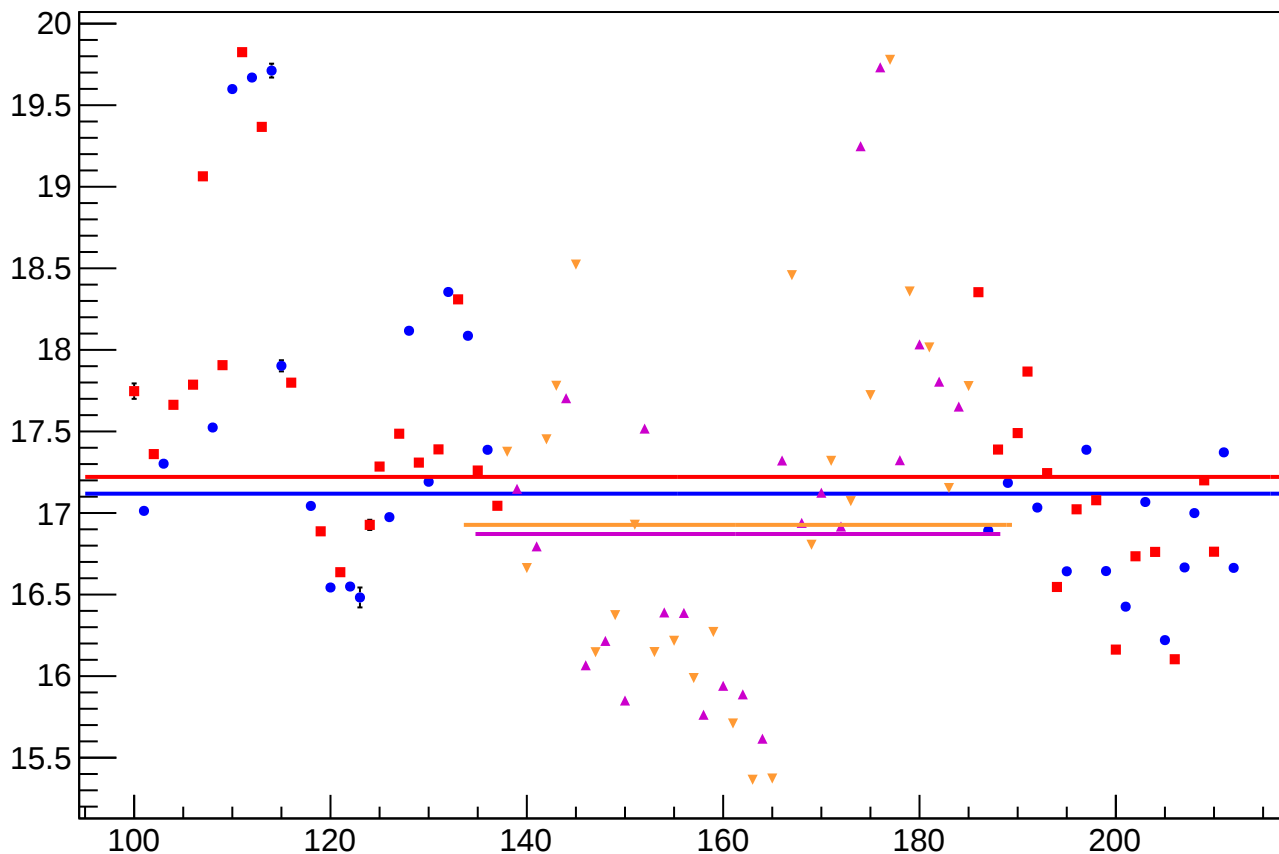
Right: -0.987 ± 3.013 $\chi^2/\text{NDF}: 53.7/62$

In: 2.726 ± 2.949 $\chi^2/\text{NDF}: 52.8/52$

Out: 2.169 ± 2.890 $\chi^2/\text{NDF}: 56.9/57$

All: 2.442 ± 2.064 $\chi^2/\text{NDF}: 109.7/110$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.118 $\pm$ 0.003 χ^2 /NDF: 56095.8/29

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.221 $\pm$ 0.003 χ^2 /NDF: 66945.8/32

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

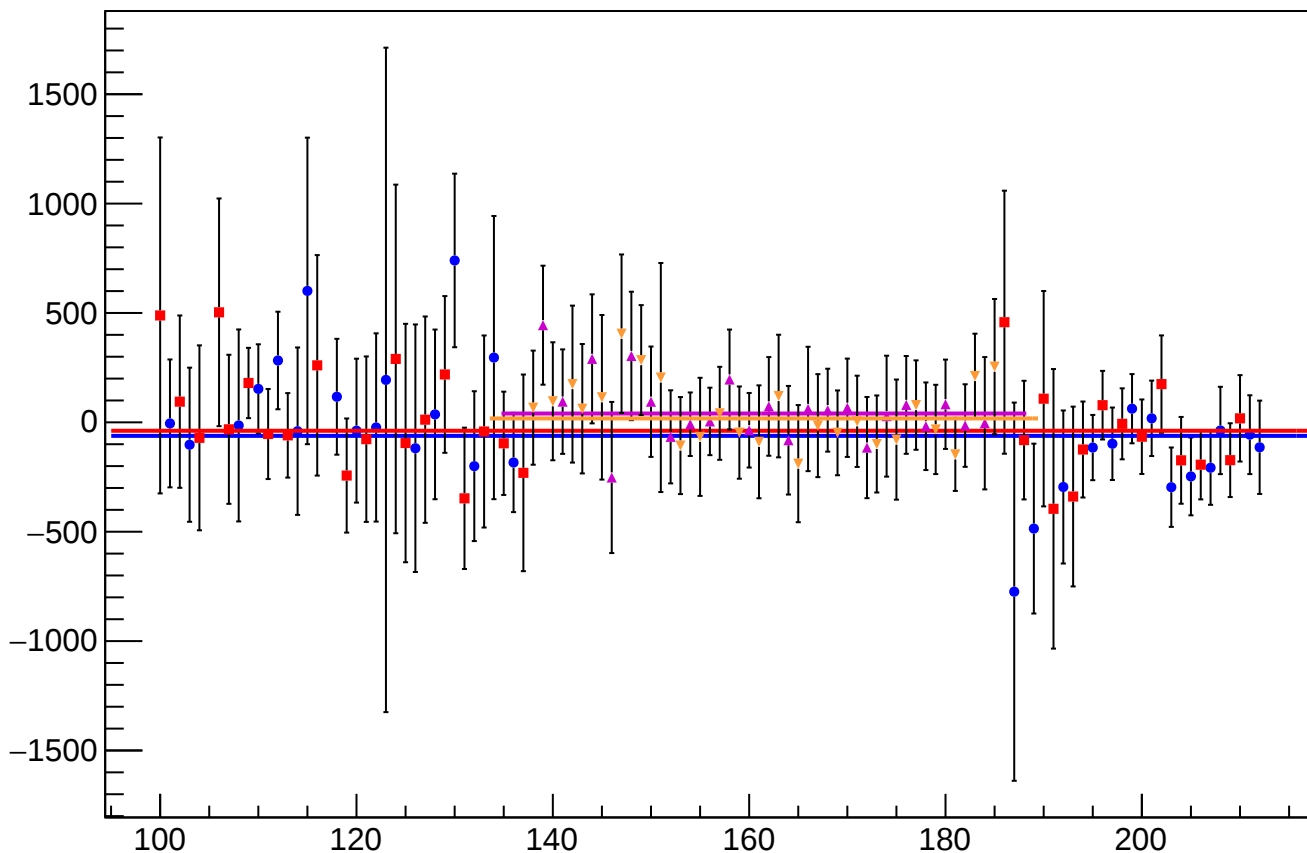
Right: 17.171 $\pm$ 0.002 χ^2 /NDF: 123623.2/62

In: 16.988 $\pm$ 0.002 χ^2 /NDF:177592.7/52

Out: 17.064 $\pm$ 0.002 χ^2 /NDF:210629.4/57

All: 17.027 $\pm$ 0.001 χ^2 /NDF: 388901.5/110

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.800 ± 44.740 $\chi^2/\text{NDF}: 16.8/29$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -38.469 ± 44.526 $\chi^2/\text{NDF}: 11.8/32$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

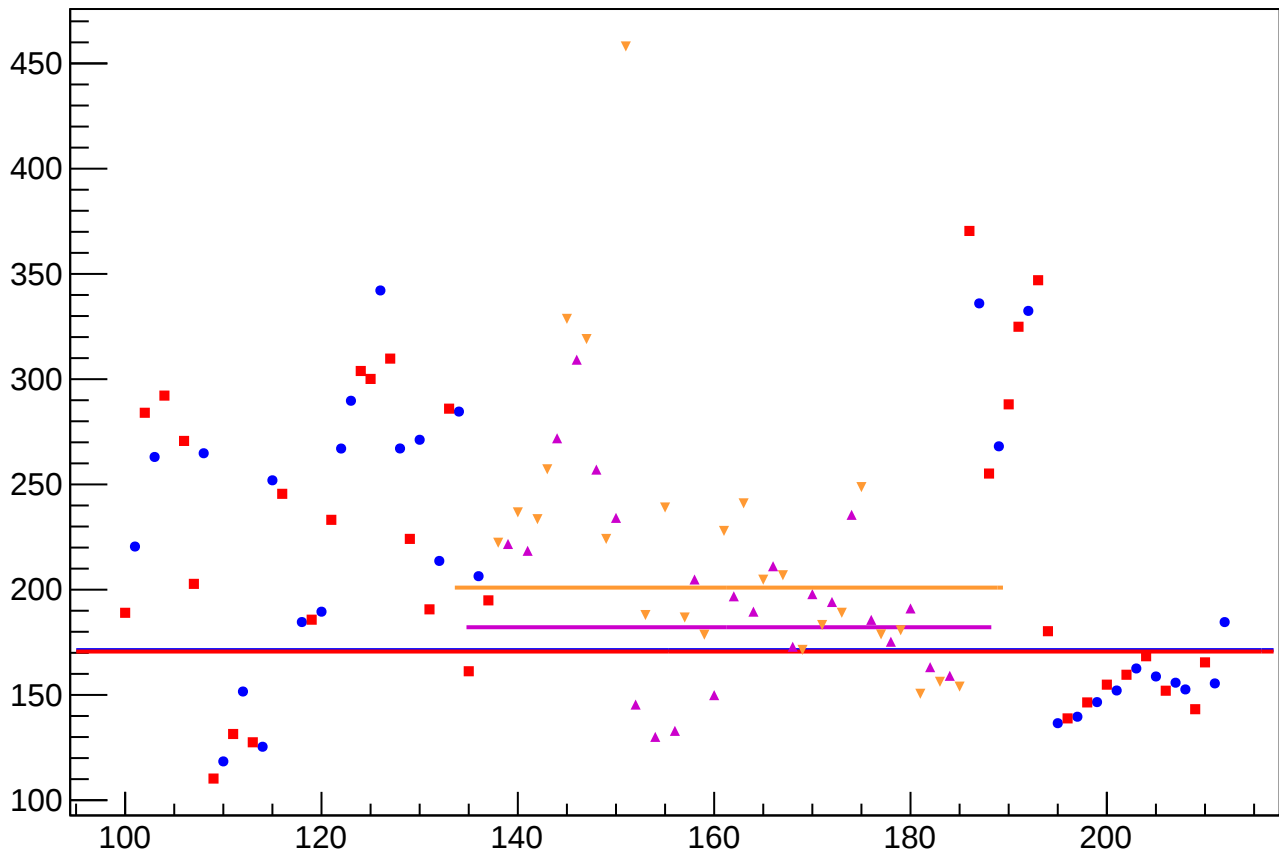
Right: -50.079 ± 31.560 $\chi^2/\text{NDF}: 28.7/62$

In: -11.795 ± 31.966 $\chi^2/\text{NDF}: 26.0/52$

Out: -12.748 ± 32.814 $\chi^2/\text{NDF}: 20.0/57$

All: -12.259 ± 22.897 $\chi^2/\text{NDF}: 45.9/110$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.297 $\pm$ 0.032 χ^2 /NDF: 2130282.7/29

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 170.613 $\pm$ 0.031 χ^2 /NDF: 2774612.7/32

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

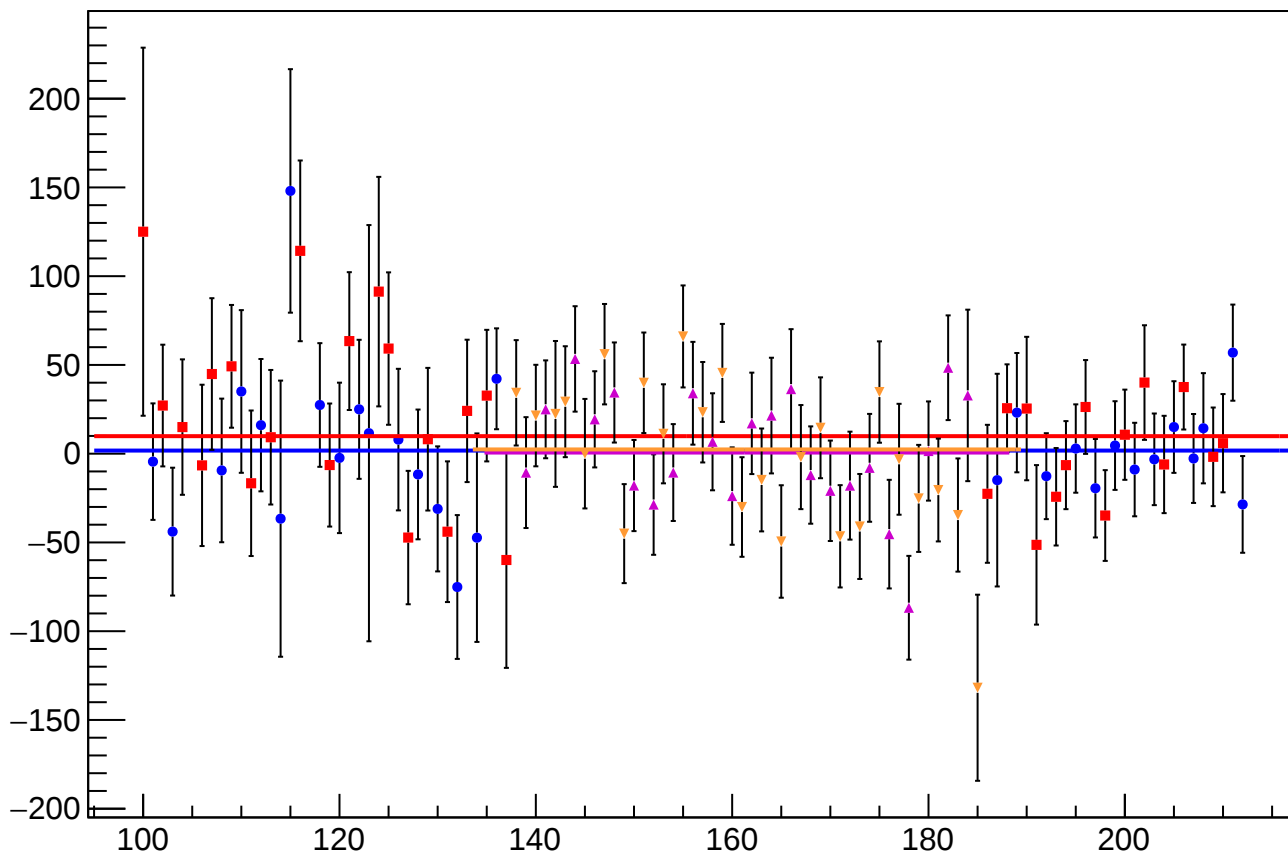
Right: 170.953 $\pm$ 0.022 χ^2 /NDF: 4905130.0/62

In: 176.613 $\pm$ 0.023 χ^2 /NDF:3723906.0/52

Out: 184.489 $\pm$ 0.023 χ^2 /NDF:4927064.6/57

All: 180.448 $\pm$ 0.016 χ^2 /NDF: 8710085.6/110

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.756 $\pm$ 6.032 χ^2 /NDF: 22.9/29

Left Out: 2.390 $\pm$ 5.980 χ^2 /NDF:39.1/24

Right Out: 9.873 $\pm$ 5.919 χ^2 /NDF: 30.5/32

Left In: 0.641 $\pm$ 6.091 χ^2 /NDF:27.3/22

Left: 1.531 $\pm$ 4.267 χ^2 /NDF: 66.5/47

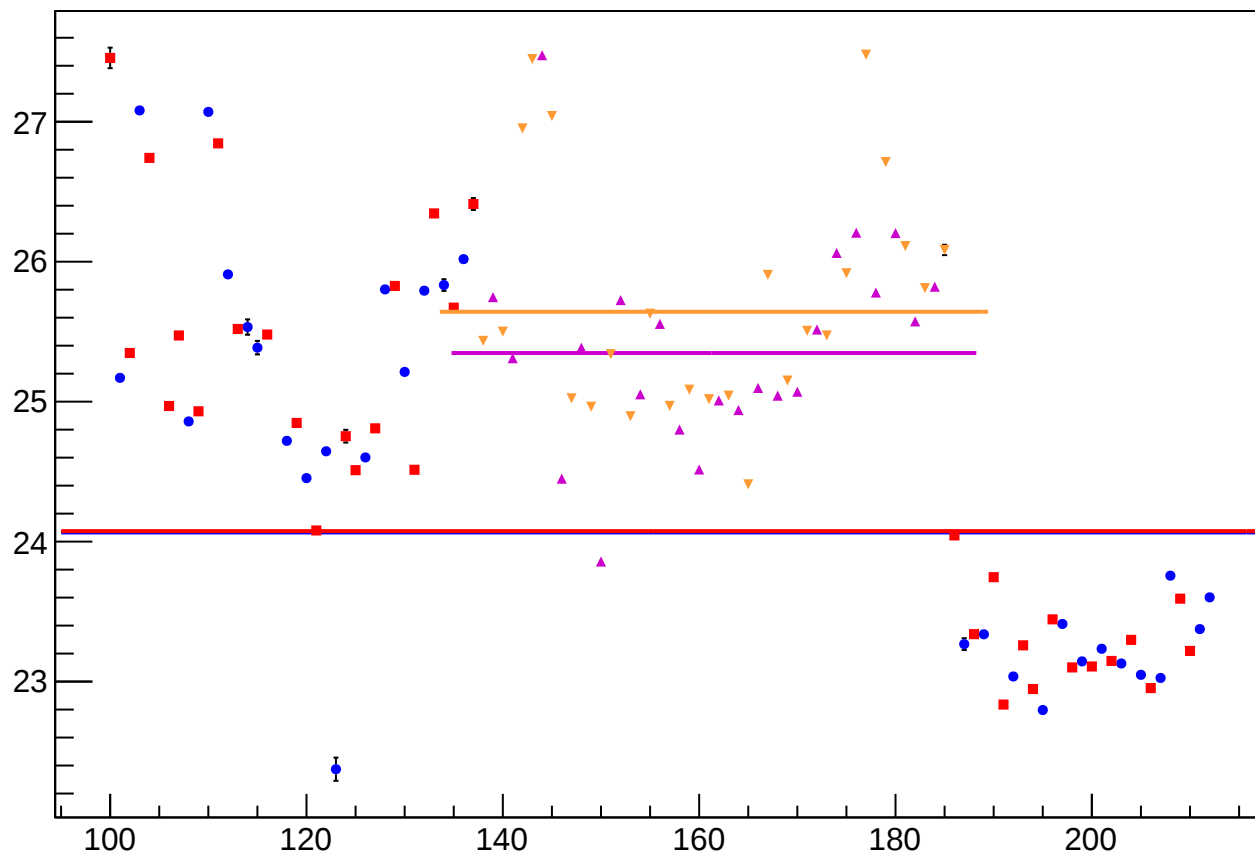
Right: 5.892 $\pm$ 4.225 χ^2 /NDF: 54.4/62

In: 1.204 $\pm$ 4.286 χ^2 /NDF:50.3/52

Out: 6.170 $\pm$ 4.207 χ^2 /NDF:70.4/57

All: 3.733 $\pm$ 3.002 χ^2 /NDF: 121.4/110

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.065 $\pm$ 0.004 χ^2 /NDF: 82811.3/29

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.075 $\pm$ 0.004 χ^2 /NDF: 78106.7/32

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

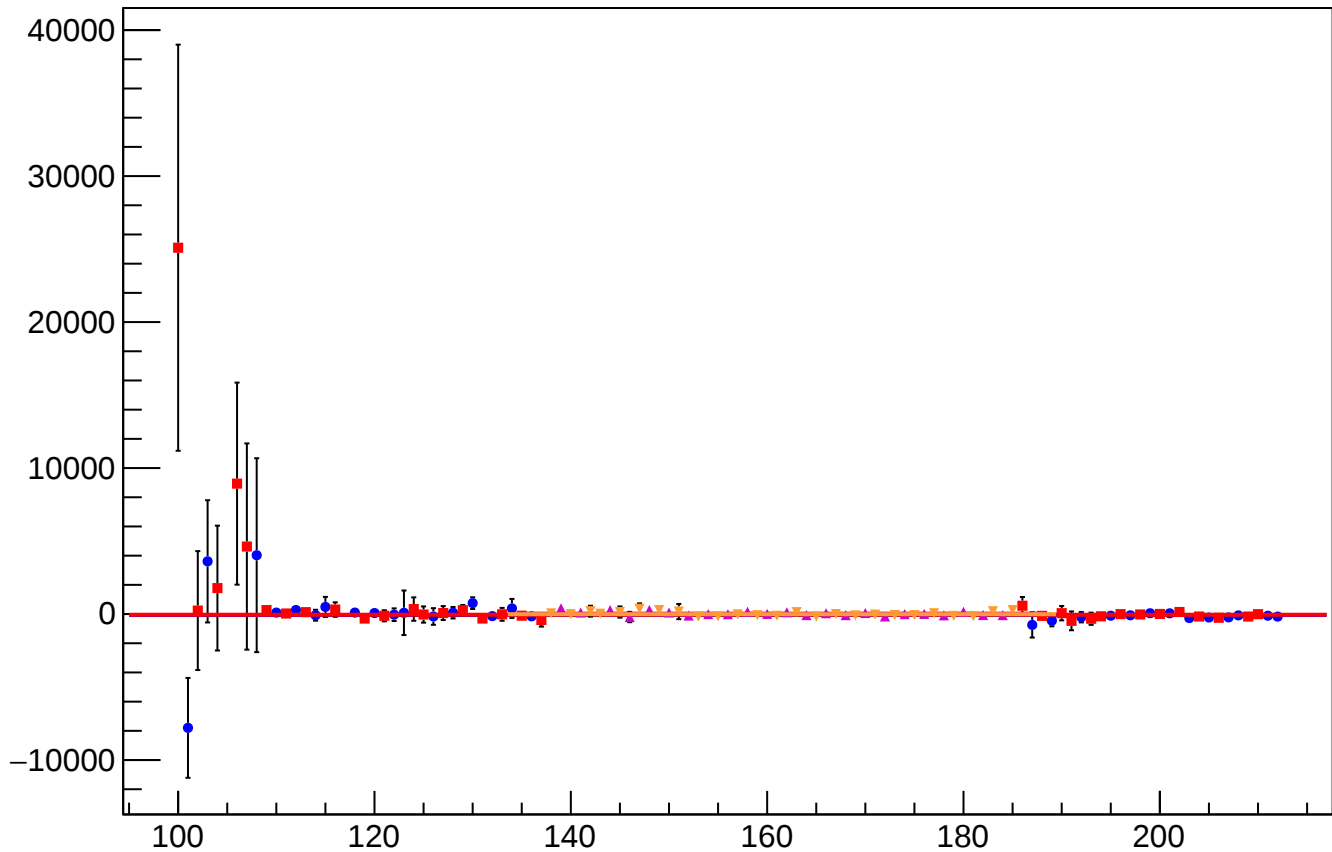
Right: 24.070 $\pm$ 0.003 χ^2 /NDF: 160920.6/62

In: 24.700 $\pm$ 0.003 χ^2 /NDF:156925.2/52

Out: 24.851 $\pm$ 0.003 χ^2 /NDF:182308.3/57

All: 24.777 $\pm$ 0.002 χ^2 /NDF: 340487.8/110

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.537 $\pm$ 46.728 χ^2 /NDF: 21.8/29

Left Out: -11.432 $\pm$ 48.263 χ^2 /NDF: 8.0/24

Right Out: -46.811 $\pm$ 47.287 χ^2 /NDF: 18.3/32

Left In: 27.098 $\pm$ 45.999 χ^2 /NDF: 7.2/22

Left: 8.758 $\pm$ 33.298 χ^2 /NDF: 15.5/47

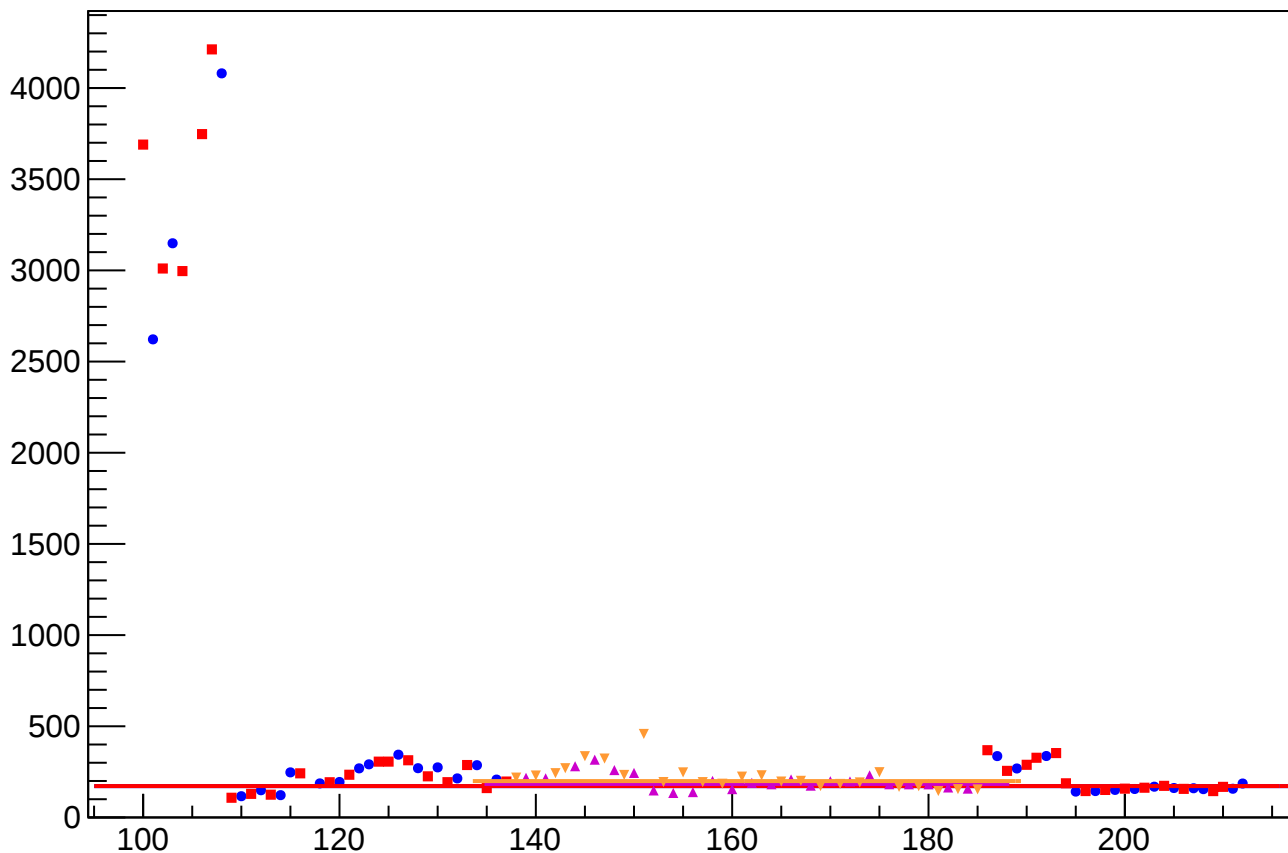
Right: -56.285 $\pm$ 33.237 χ^2 /NDF: 40.1/62

In: -18.491 $\pm$ 32.781 χ^2 /NDF: 31.0/52

Out: -29.483 $\pm$ 33.777 χ^2 /NDF: 26.6/57

All: -23.822 $\pm$ 23.524 χ^2 /NDF: 57.6/110

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.712 $\pm$ 0.033 χ^2 /NDF: 4526125.6/29

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 172.059 $\pm$ 0.033 χ^2 /NDF: 5393658.8/32

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

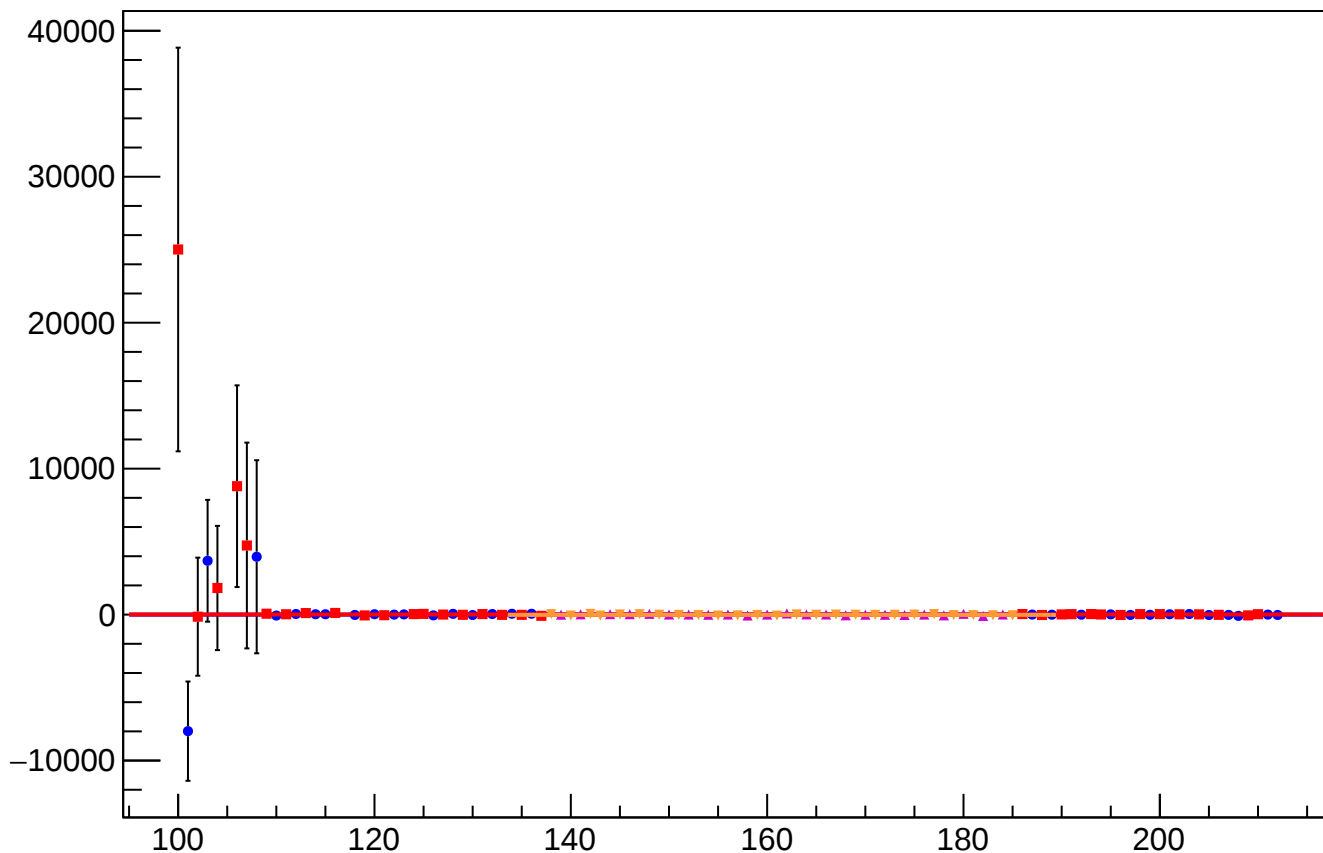
Right: 171.883 $\pm$ 0.024 χ^2 /NDF: 9919838.9/62

In: 177.854 $\pm$ 0.023 χ^2 /NDF: 6007026.8/52

Out: 185.469 $\pm$ 0.024 χ^2 /NDF: 7599904.1/57

All: 181.547 $\pm$ 0.017 χ^2 /NDF: 13659283.5/117

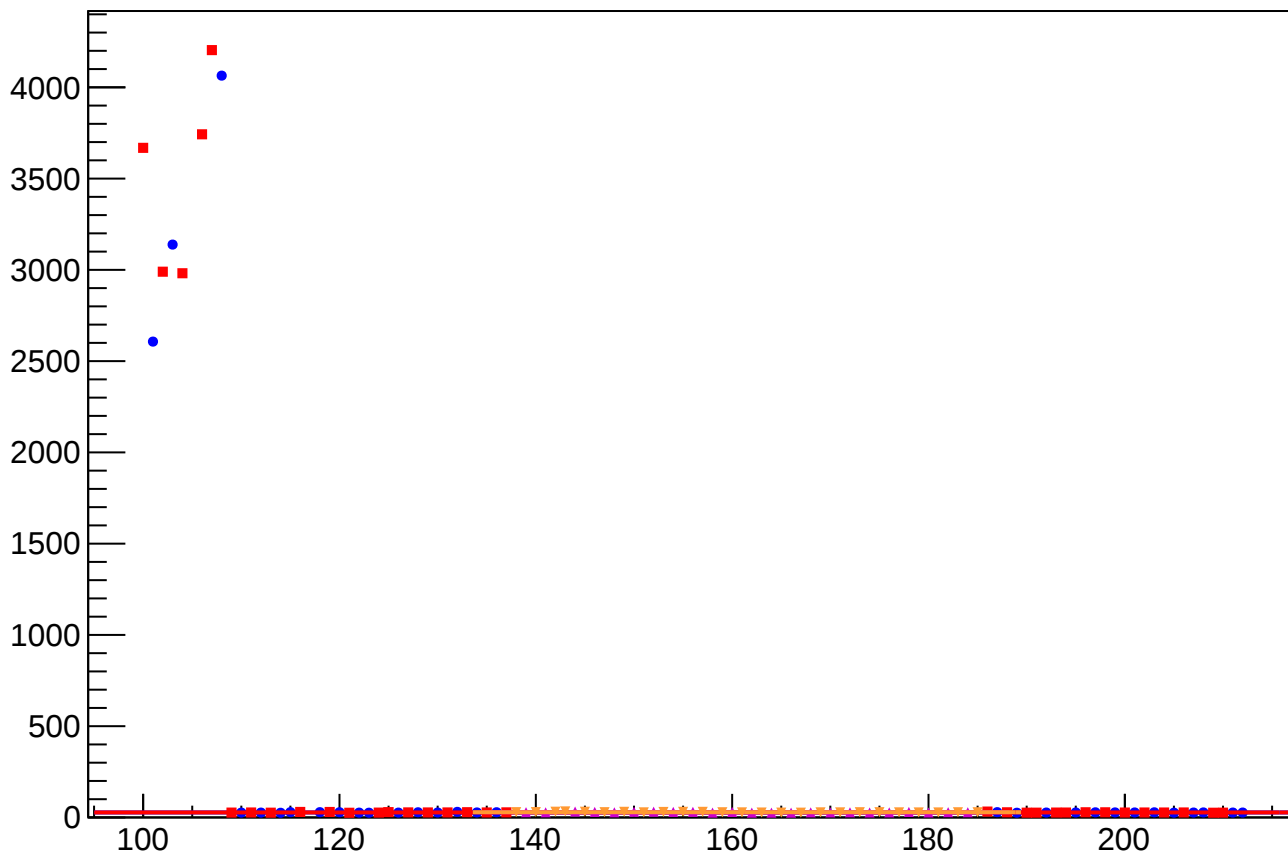
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.649 ± 7.221 χ^2/NDF : 30.1/29
 Left Out: -18.118 ± 6.704 χ^2/NDF : 21.7/24
 Right Out: 8.529 ± 7.198 χ^2/NDF : 34.3/32
 Left In: 1.267 ± 6.908 χ^2/NDF : 32.0/22

Left: -8.716 ± 4.811 χ^2/NDF : 57.8/47
 Right: 3.456 ± 5.098 χ^2/NDF : 65.4/62
 In: -0.126 ± 4.992 χ^2/NDF : 62.2/52
 Out: -5.740 ± 4.906 χ^2/NDF : 63.4/57
 All: -2.982 ± 3.499 χ^2/NDF : 126.2/110

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.430+/-0.005 χ^2/NDF : 3041863.0/29

Left Out: 28.694+/-0.005 χ^2/NDF :110466.9/24

Right Out: 27.427+/-0.005 χ^2/NDF : 3512170.8/32

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

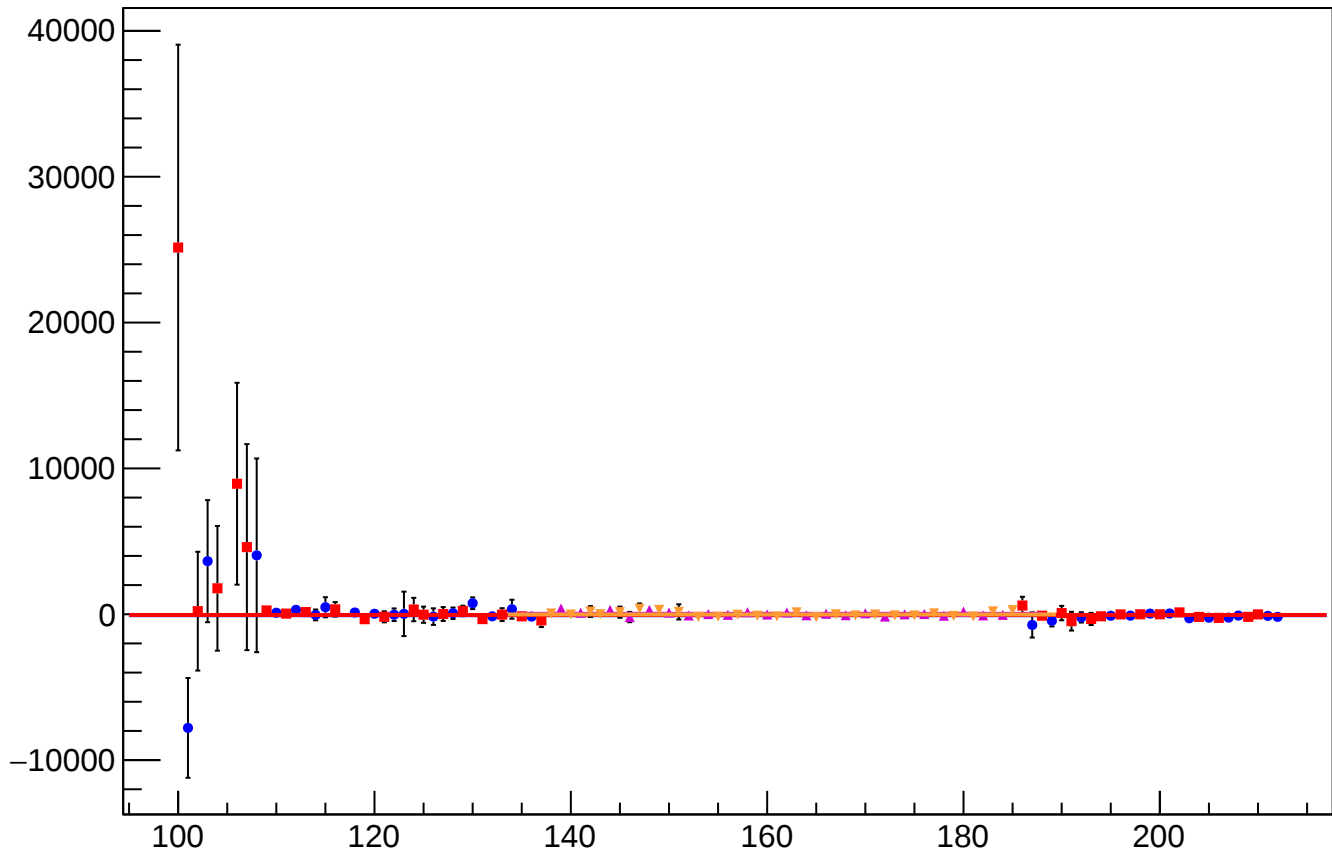
Right: 27.429+/-0.004 χ^2/NDF : 6554034.0/62

In: 28.081+/-0.004 χ^2/NDF :3196793.3/52

Out: 28.106+/-0.003 χ^2/NDF :3655784.5/57

All: 28.094+/-0.002 χ^2/NDF : 6852602.0/110

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.298+/-46.586 χ^2/NDF : 22.1/29

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: -48.551+/-47.149 χ^2/NDF : 18.9/32

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

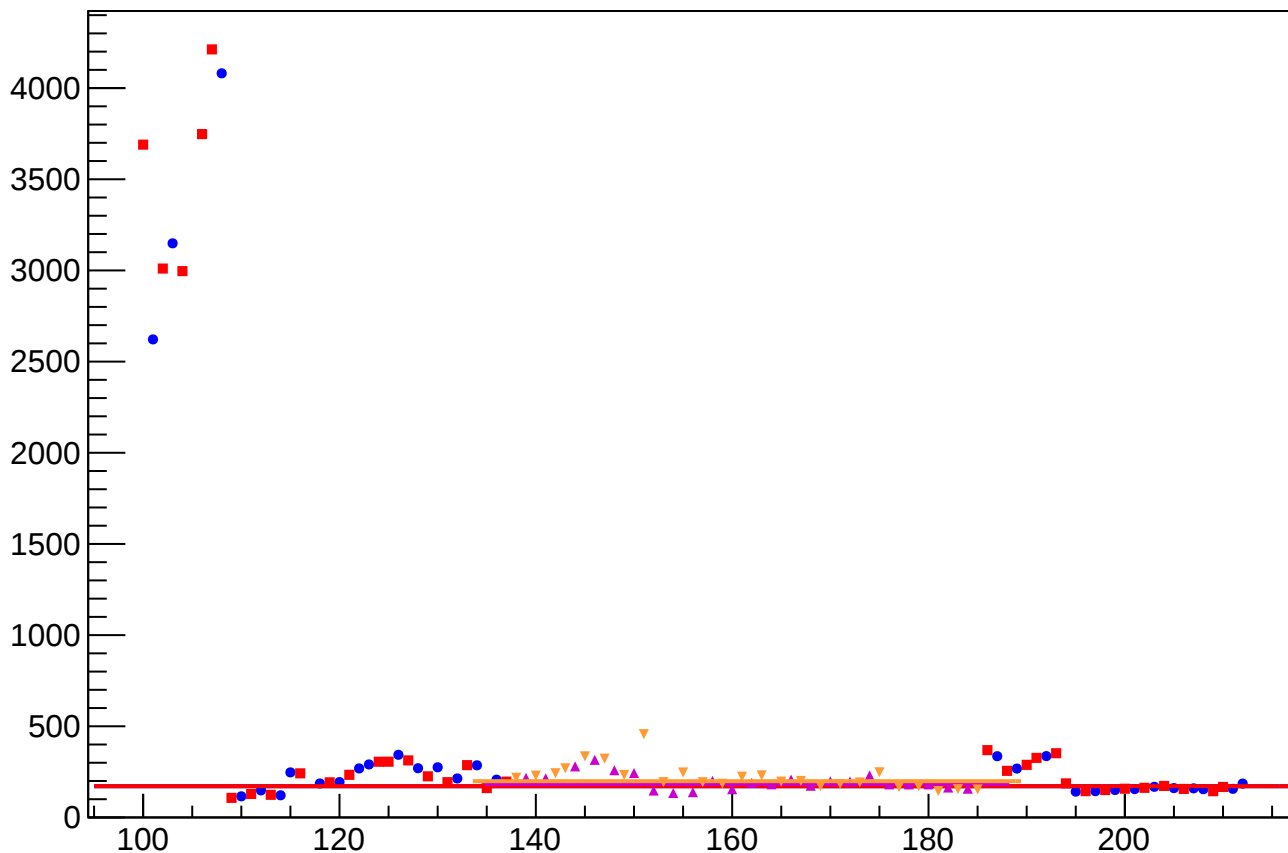
Right: -56.519+/-33.138 χ^2/NDF : 41.1/62

In: -17.834+/-32.698 χ^2/NDF : 31.6/52

Out: -31.581+/-33.690 χ^2/NDF : 28.0/57

All: -24.502+/-23.464 χ^2/NDF : 59.7/110

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.148 $\pm$ 0.033 χ^2 /NDF: 4539470.6/29

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 171.503 $\pm$ 0.033 χ^2 /NDF: 5411301.5/32

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

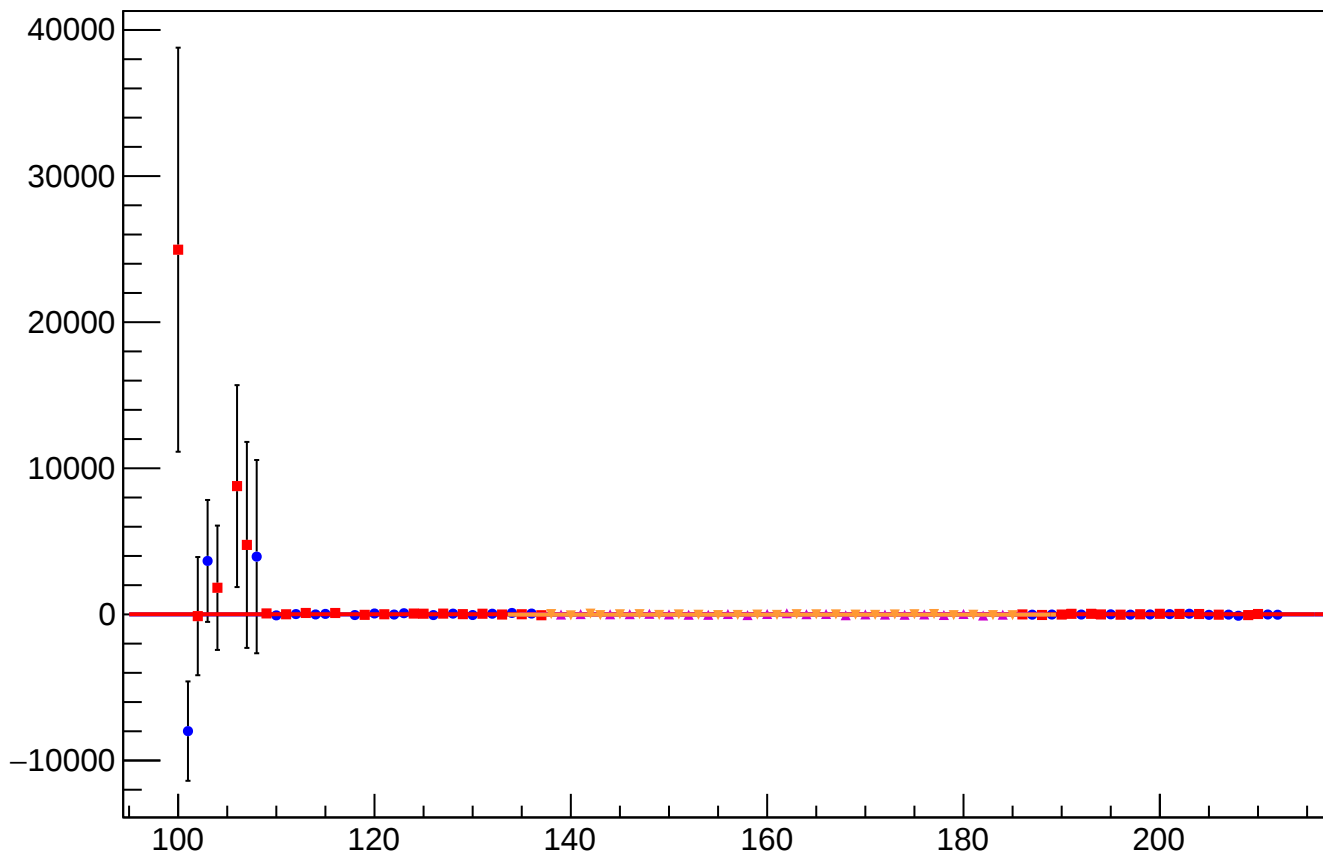
Right: 171.323 $\pm$ 0.023 χ^2 /NDF: 9950829.3/62

In: 177.385 $\pm$ 0.023 χ^2 /NDF:6022469.2/52

Out: 184.959 $\pm$ 0.024 χ^2 /NDF:7621791.7/57

All: 181.059 $\pm$ 0.017 χ^2 /NDF: 13696315.2/117

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.338+/-7.188 χ^2/NDF : 34.5/29

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 11.496+/-7.179 χ^2/NDF : 30.3/32

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

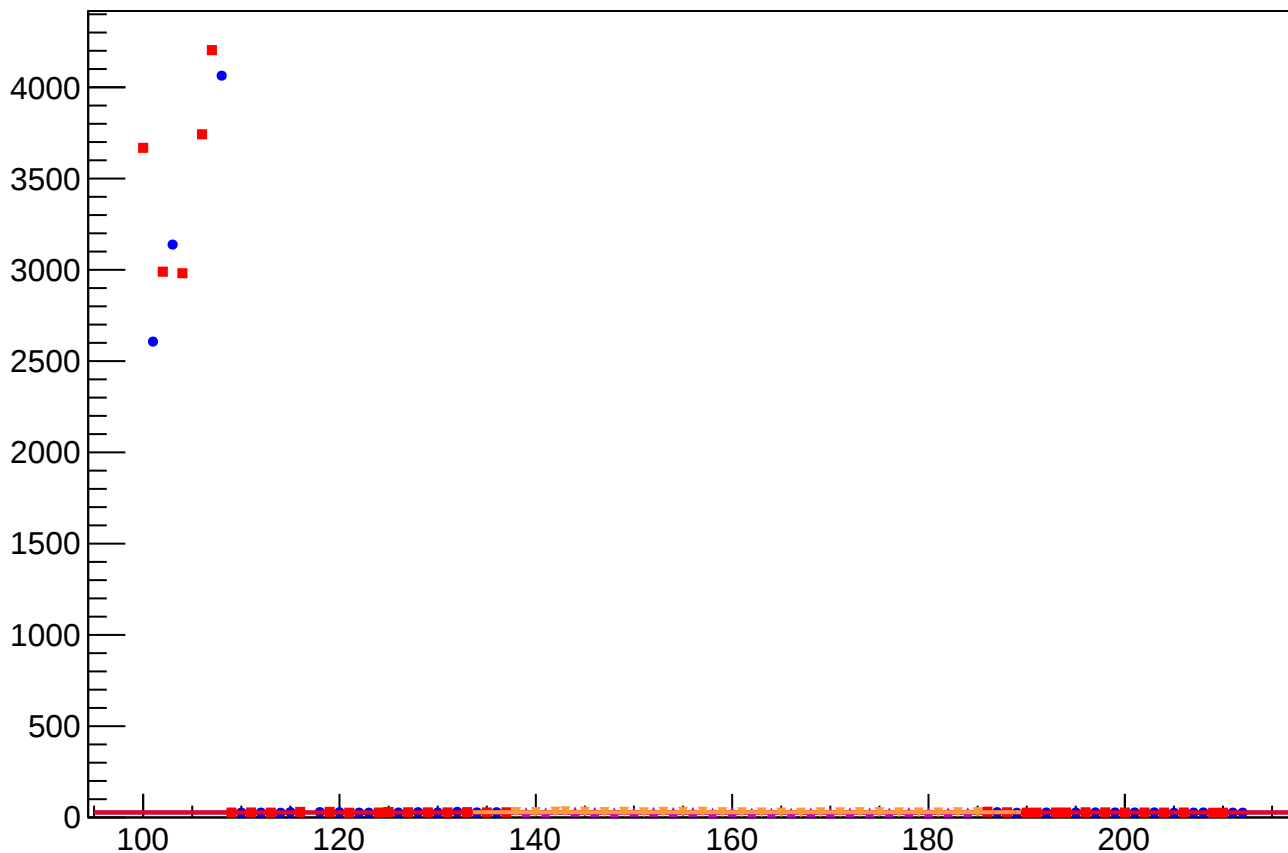
Right: 4.089+/-5.080 χ^2/NDF : 67.0/62

In: -1.867+/-4.992 χ^2/NDF : 60.7/52

Out: -3.042+/-4.911 χ^2/NDF : 54.5/57

All: -2.464+/-3.501 χ^2/NDF : 115.3/110

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.302 $\pm$ 0.005 χ^2 /NDF: 3049891.9/29

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.353 $\pm$ 0.005 χ^2 /NDF: 3516705.4/32

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

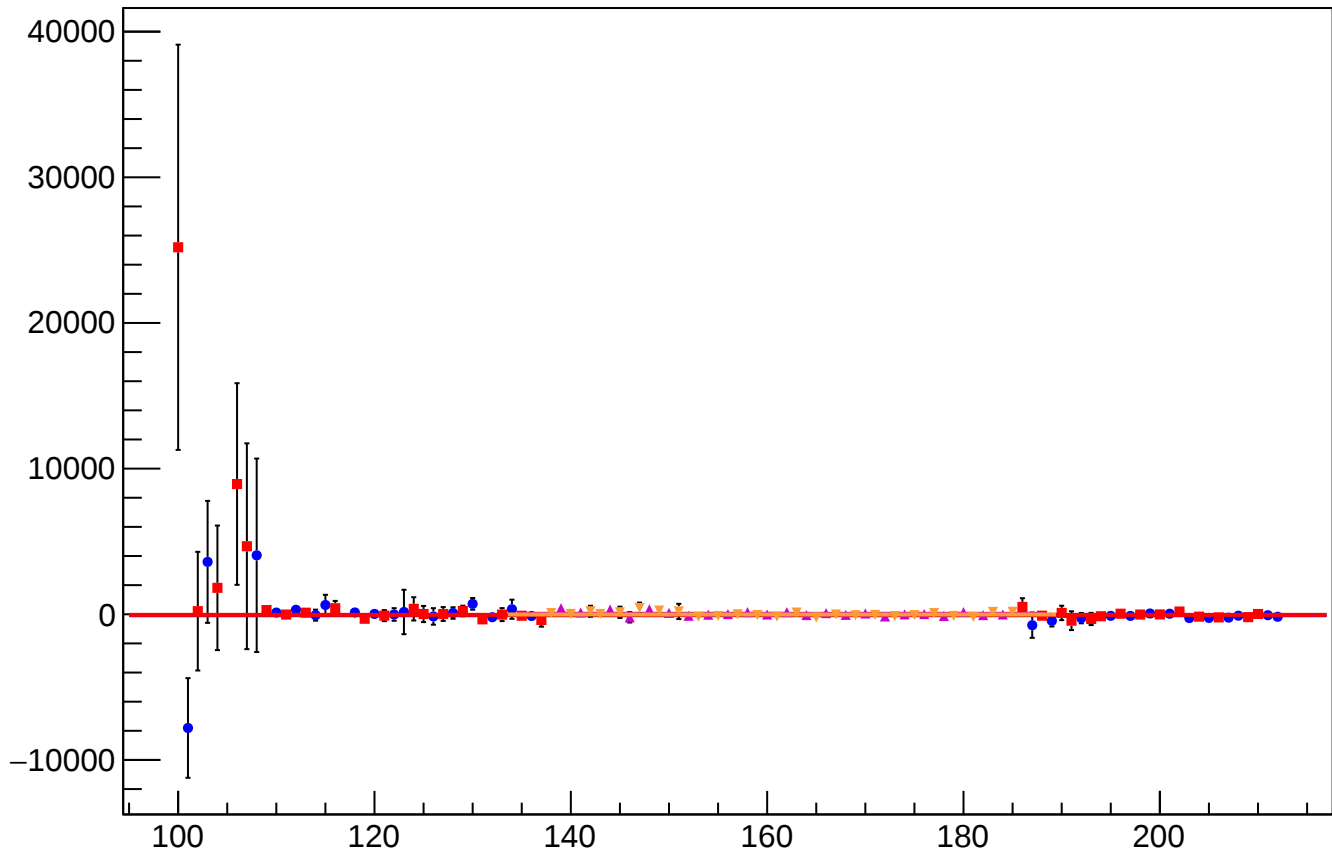
Right: 27.327 $\pm$ 0.004 χ^2 /NDF: 6566648.3/62

In: 28.076 $\pm$ 0.004 χ^2 /NDF: 3223001.7/52

Out: 28.130 $\pm$ 0.003 χ^2 /NDF: 3682943.6/57

All: 28.104 $\pm$ 0.002 χ^2 /NDF: 6906065.5/110

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.908 $\pm$ 46.909 χ^2 /NDF: 22.3/29

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF:8.1/24

Right Out: -40.411 $\pm$ 47.497 χ^2 /NDF: 18.3/32

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF:7.8/22

Left: 9.830 $\pm$ 33.637 χ^2 /NDF: 16.4/47

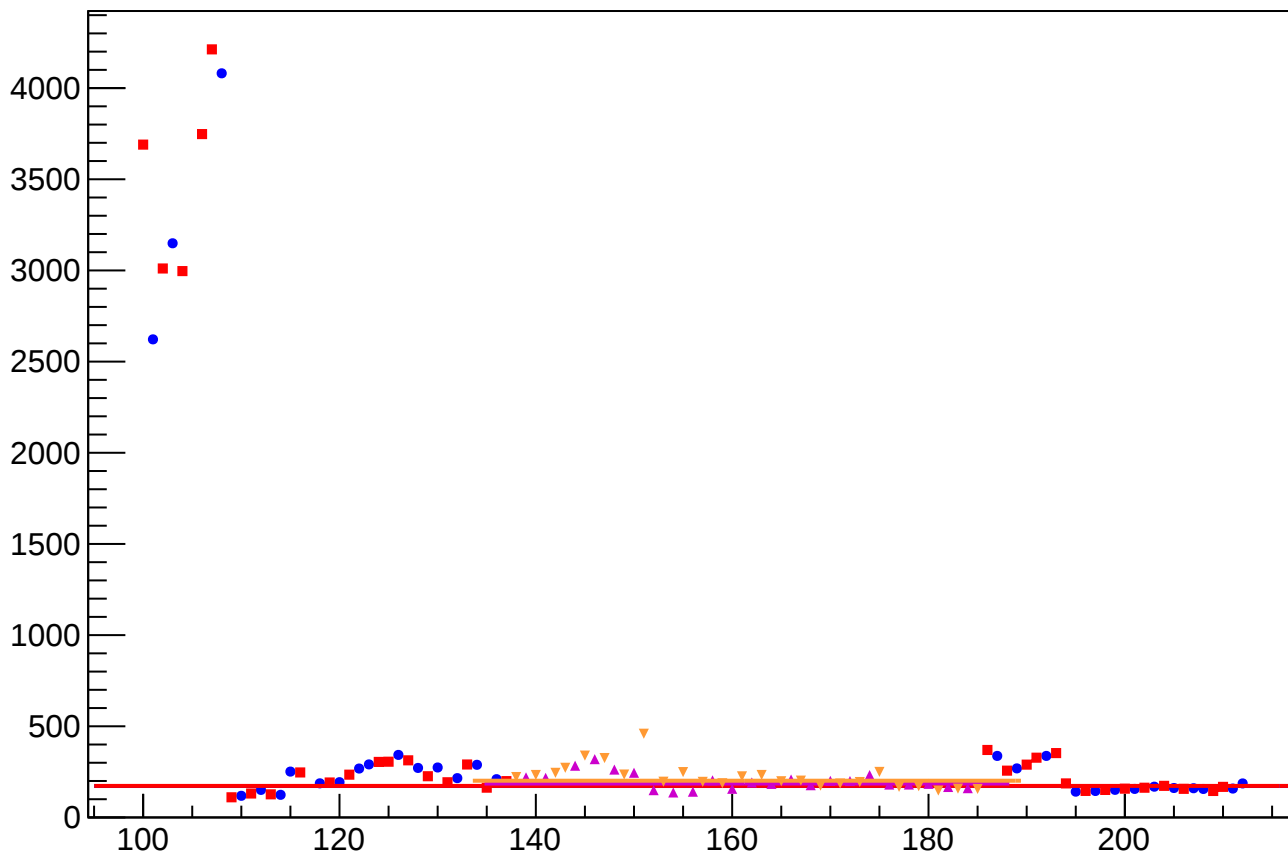
Right: -51.799 $\pm$ 33.376 χ^2 /NDF: 40.7/62

In: -15.285 $\pm$ 33.018 χ^2 /NDF:32.2/52

Out: -27.528 $\pm$ 34.015 χ^2 /NDF:26.6/57

All: -21.225 $\pm$ 23.692 χ^2 /NDF: 58.8/110

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.433+/-0.033 χ^2/NDF : 4507256.2/29

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 172.978+/-0.034 χ^2/NDF : 5352666.6/32

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

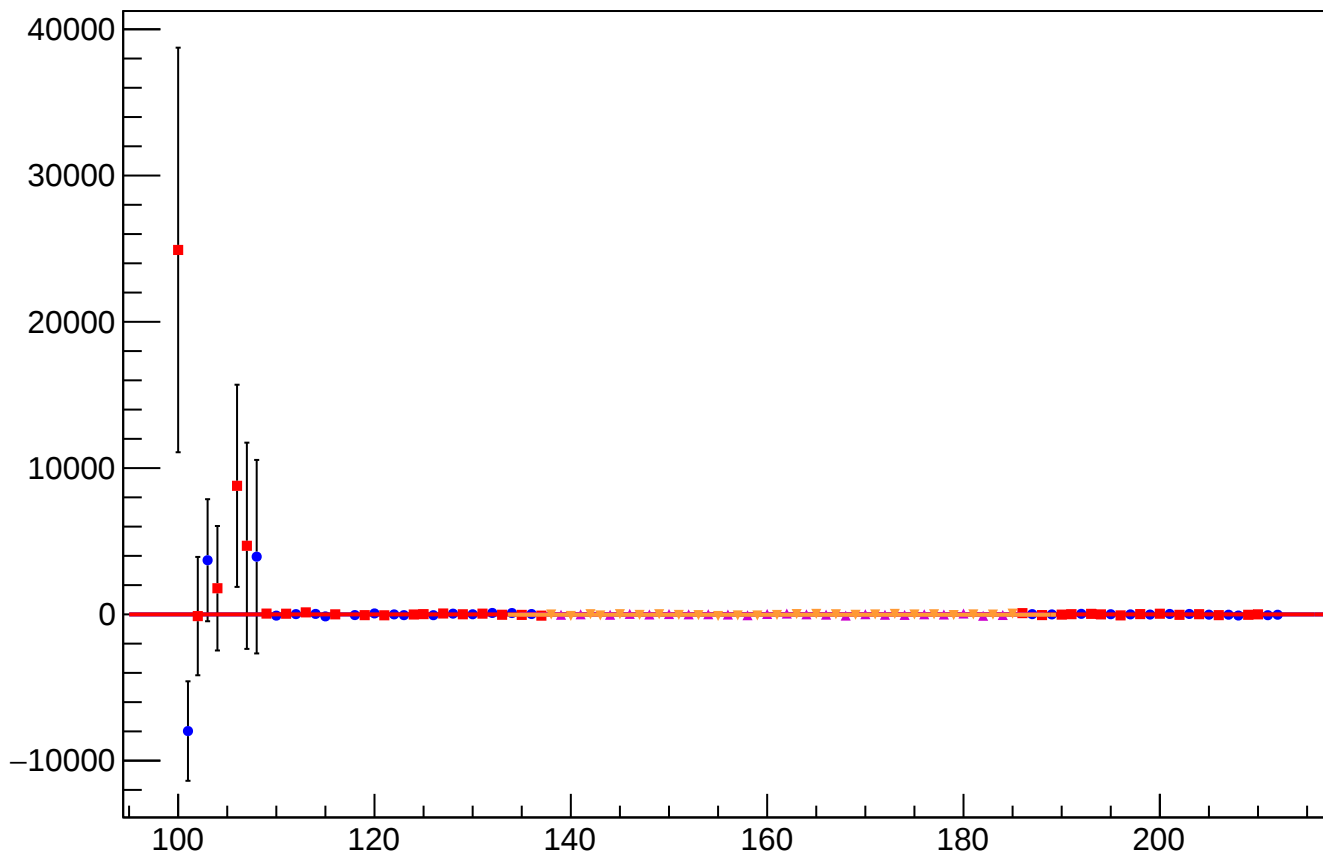
Right: 172.702+/-0.024 χ^2/NDF : 9860056.4/62

In: 179.217+/-0.023 χ^2/NDF : 5971043.9/52

Out: 186.874+/-0.024 χ^2/NDF : 7558956.0/57

All: 182.931+/-0.017 χ^2/NDF : 13582177.1/11

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.823 ± 8.784 χ^2/NDF : 29.3/29

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: -0.781 ± 8.767 χ^2/NDF : 34.9/32

Left In: -5.924 ± 8.340 χ^2/NDF : 21.0/22

Left: -15.326 ± 5.802 χ^2/NDF : 48.4/47

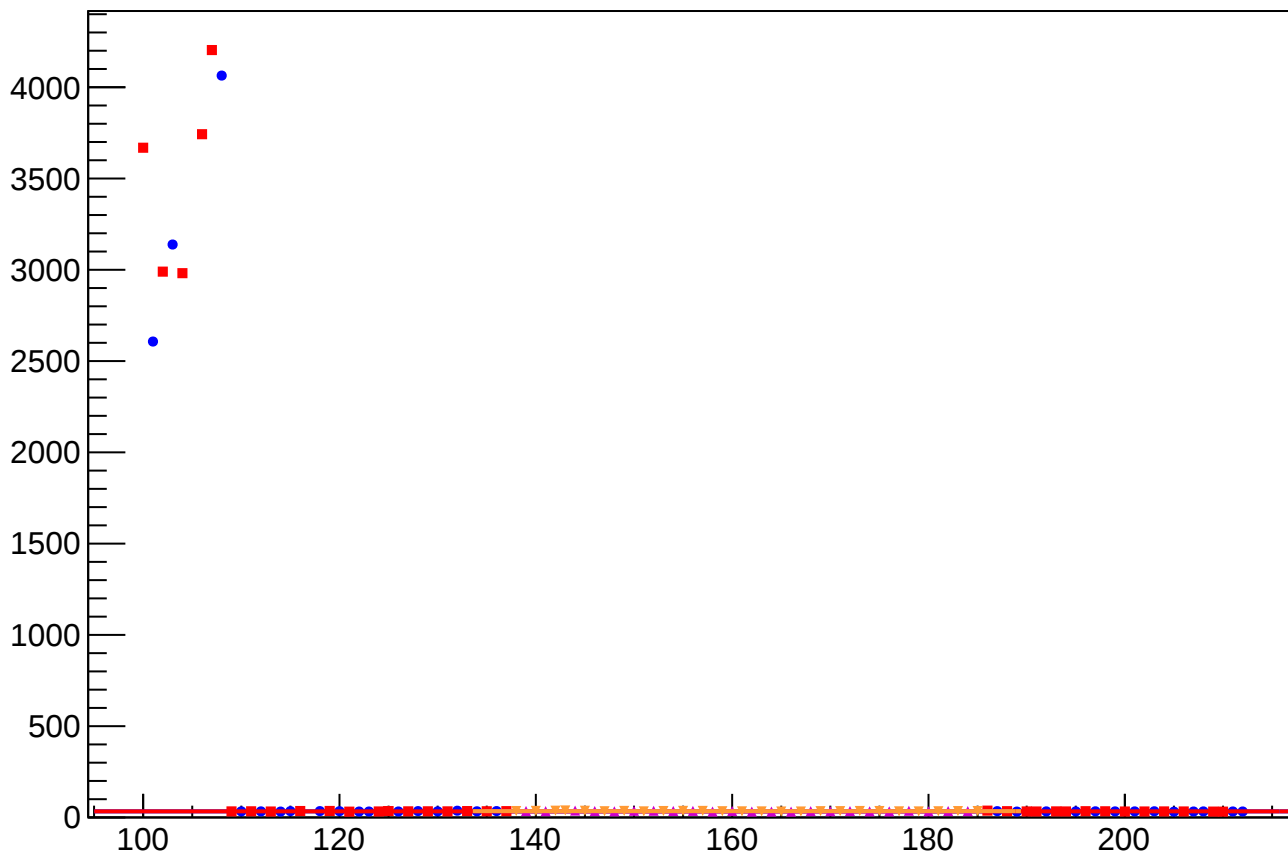
Right: -1.800 ± 6.205 χ^2/NDF : 64.2/62

In: -4.454 ± 6.048 χ^2/NDF : 50.4/52

Out: -13.419 ± 5.940 χ^2/NDF : 63.6/57

All: -9.017 ± 4.238 χ^2/NDF : 115.1/110

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.384 $\pm$ 0.006 χ^2 /NDF: 3020179.8/29

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.450 $\pm$ 0.006 χ^2 /NDF: 3474032.6/32

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

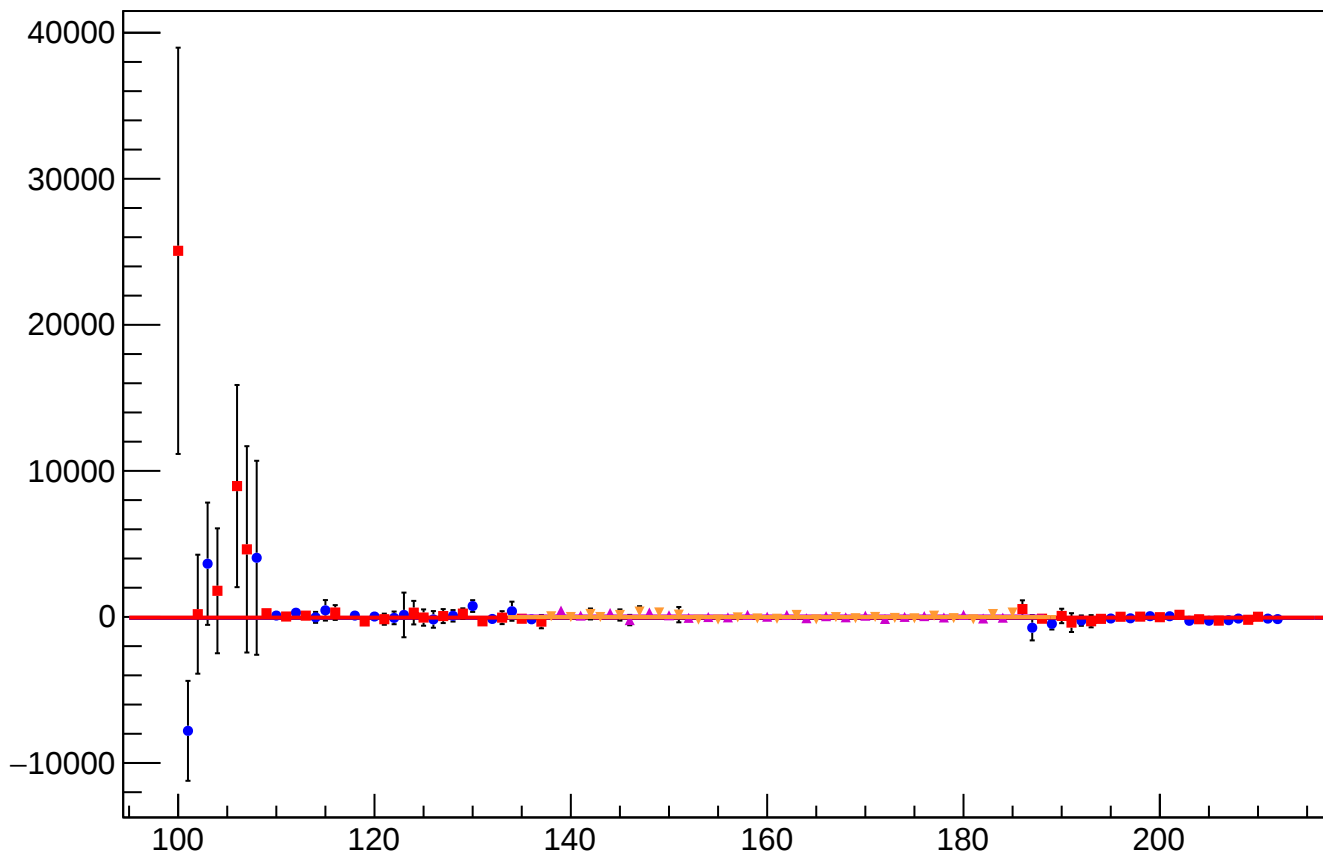
Right: 33.417 $\pm$ 0.004 χ^2 /NDF: 6494269.6/62

In: 34.066 $\pm$ 0.004 χ^2 /NDF: 3102981.3/52

Out: 34.082 $\pm$ 0.004 χ^2 /NDF: 3551081.7/57

All: 34.074 $\pm$ 0.003 χ^2 /NDF: 6654069.5/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -68.885 ± 46.770 χ^2/NDF : 21.8/29

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -46.360 ± 47.319 χ^2/NDF : 17.1/32

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

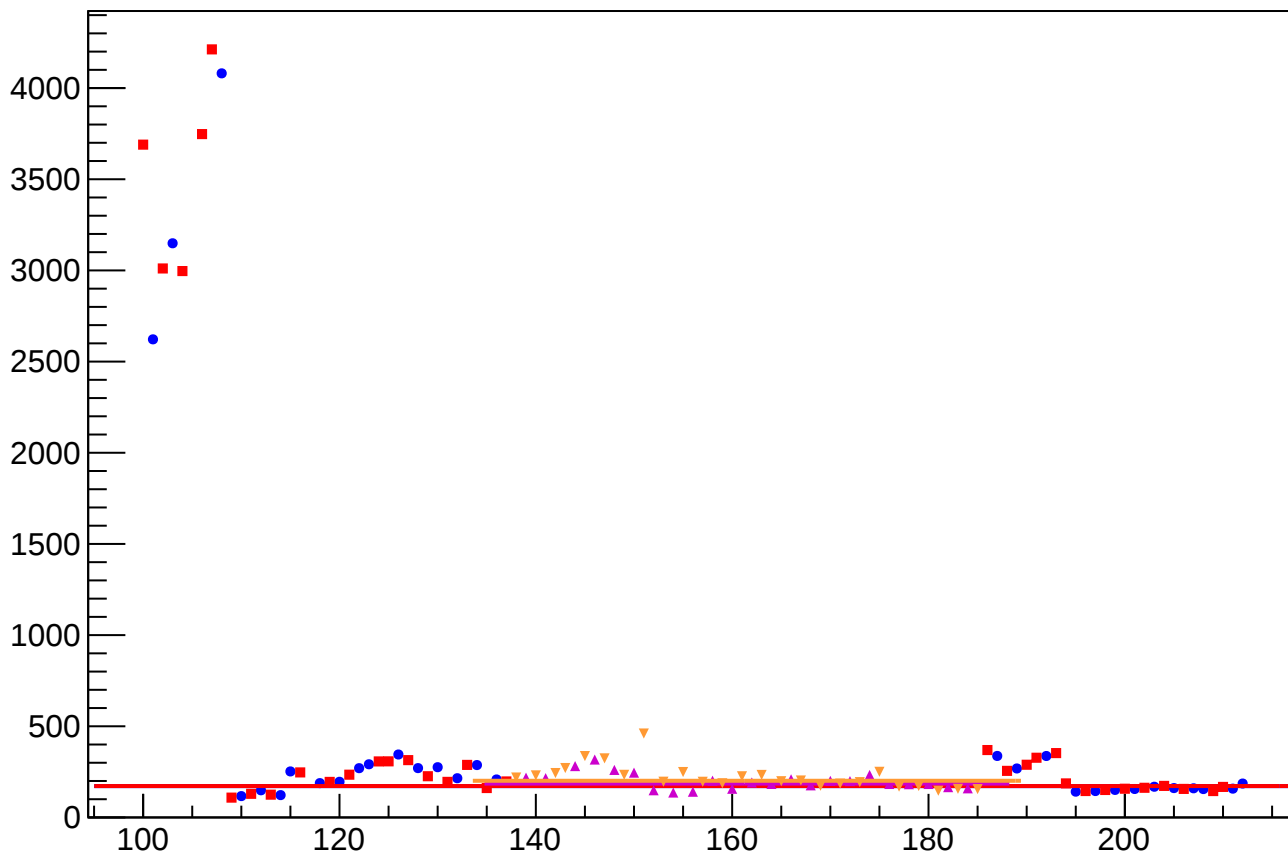
Right: -57.754 ± 33.264 χ^2/NDF : 39.1/62

In: -16.564 ± 32.947 χ^2/NDF : 31.5/52

Out: -27.502 ± 33.924 χ^2/NDF : 26.2/57

All: -21.873 ± 23.635 χ^2/NDF : 57.7/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.842 $\pm$ 0.033 χ^2 /NDF: 4535688.2/29

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 172.168 $\pm$ 0.033 χ^2 /NDF: 5400163.3/32

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

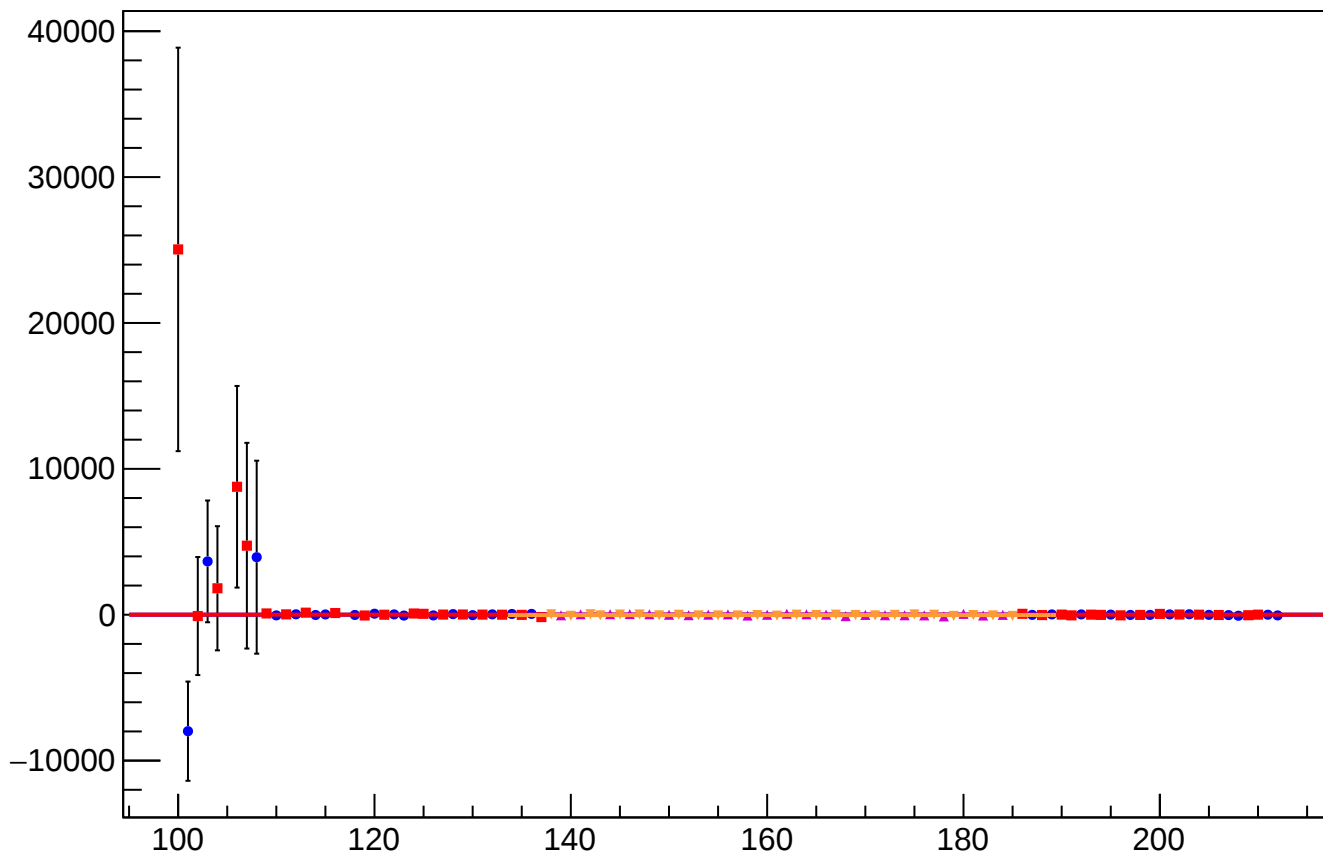
Right: 172.003 $\pm$ 0.024 χ^2 /NDF: 9935899.5/62

In: 178.787 $\pm$ 0.023 χ^2 /NDF:5994626.7/52

Out: 186.277 $\pm$ 0.024 χ^2 /NDF:7614457.9/57

All: 182.422 $\pm$ 0.017 χ^2 /NDF: 13659261.6/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.031+/-7.951 χ^2/NDF : 24.0/29

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 5.347+/-7.936 χ^2/NDF : 38.3/32

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

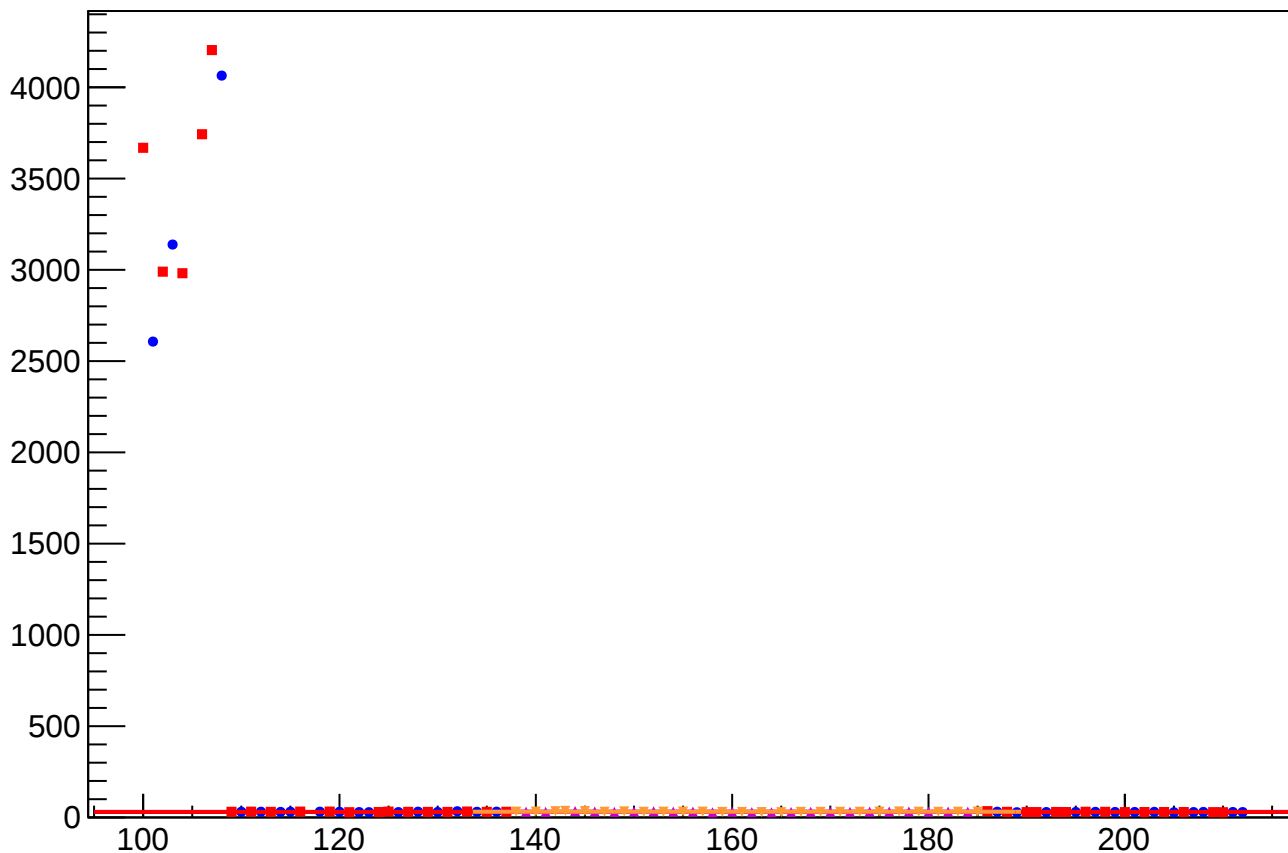
Right: 3.692+/-5.617 χ^2/NDF : 62.4/62

In: -2.380+/-5.485 χ^2/NDF :63.3/52

Out: -10.080+/-5.393 χ^2/NDF :63.6/57

All: -6.295+/-3.846 χ^2/NDF : 128.0/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.207+/-0.006 χ^2/NDF : 3038373.6/29

Left Out: 31.488+/-0.005 χ^2/NDF :81938.2/24

Right Out: 30.256+/-0.006 χ^2/NDF : 3492114.9/32

Left In: 31.475+/-0.005 χ^2/NDF :87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

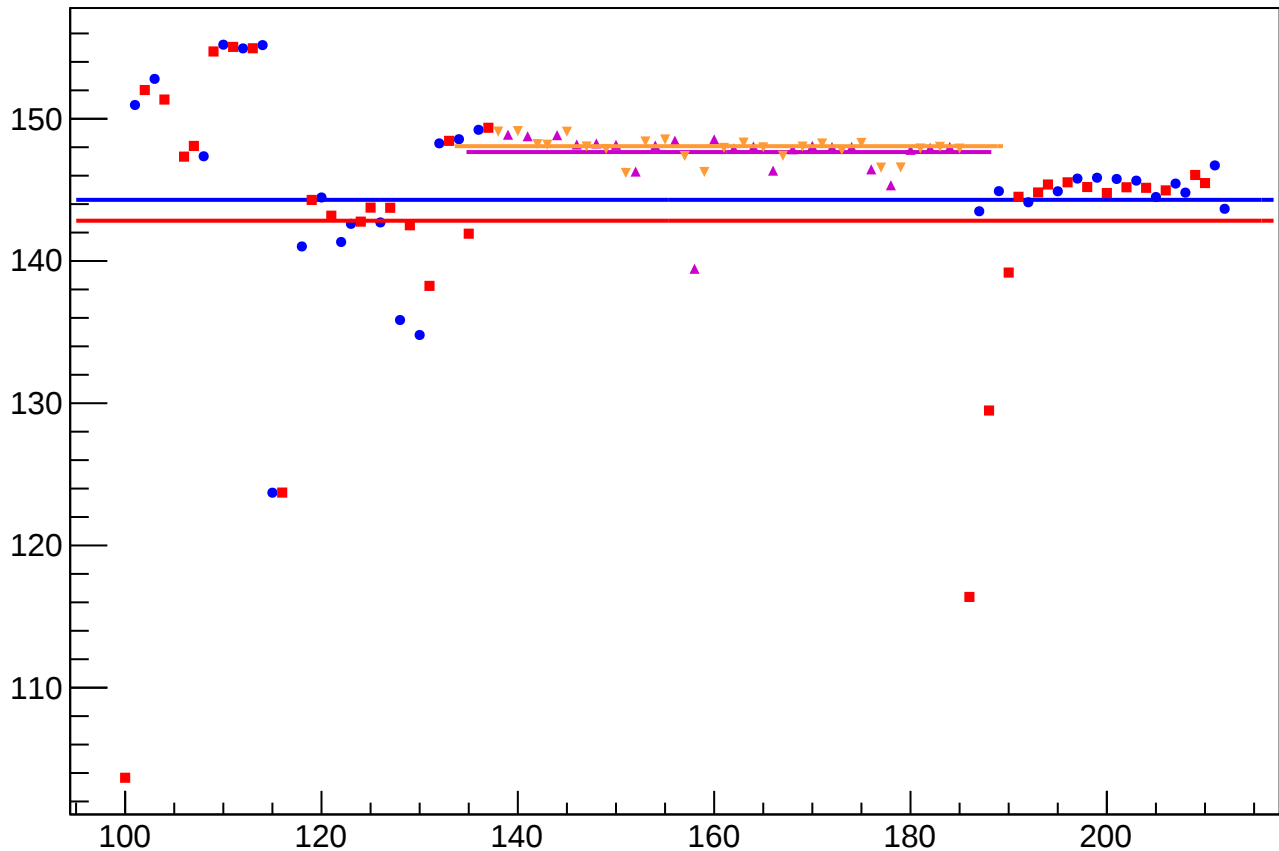
Right: 30.232+/-0.004 χ^2/NDF : 6530525.7/62

In: 30.872+/-0.004 χ^2/NDF :3152825.5/52

Out: 30.919+/-0.004 χ^2/NDF :3600013.5/57

All: 30.896+/-0.003 χ^2/NDF : 6752914.5/110

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.301 $\pm$ 0.000 χ^2 /NDF: 3501045924.3/29

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.833 $\pm$ 0.000 χ^2 /NDF: 7444786274.1/32

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

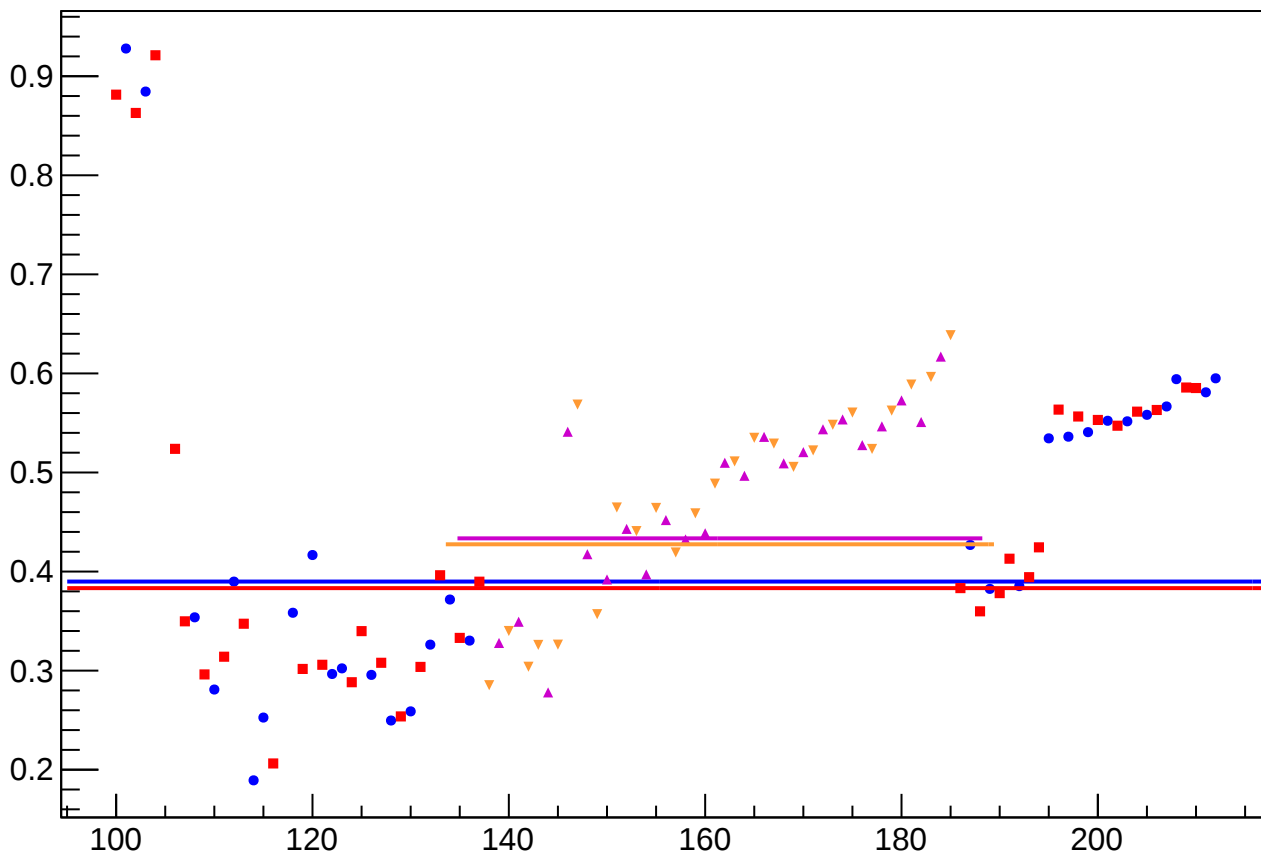
Right: 143.535 $\pm$ 0.000 χ^2 /NDF: 11045700737.4/62

In: 145.952 $\pm$ 0.000 χ^2 /NDF: 4337853476.6/52

Out: 145.394 $\pm$ 0.000 χ^2 /NDF: 8810894299.1/57

All: 145.662 $\pm$ 0.000 χ^2 /NDF: 13176974581.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.390 $\pm$ 0.000 χ^2/NDF : 3234996.3/29

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1892802.8/24

Right Out: 0.383 $\pm$ 0.000 χ^2/NDF : 2883810.6/32

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

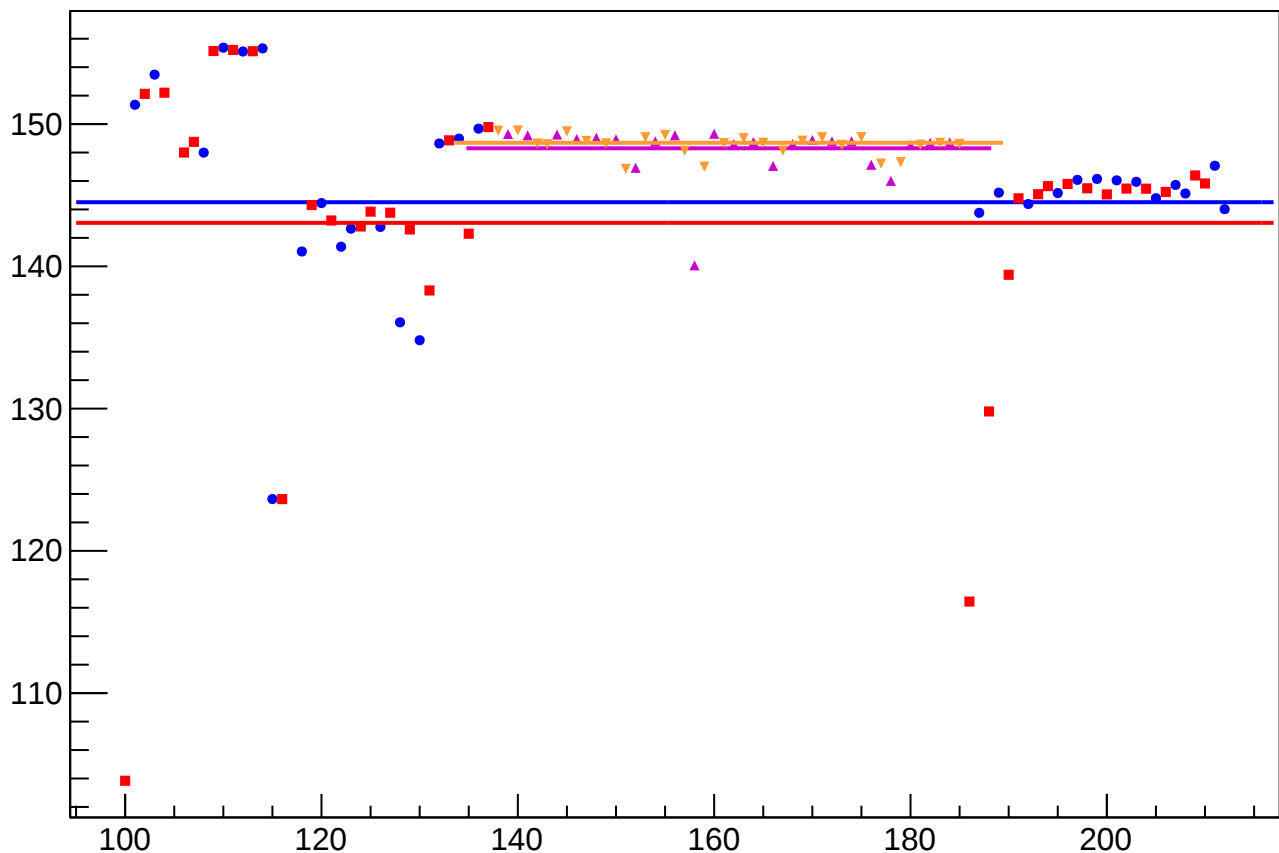
Right: 0.386 $\pm$ 0.000 χ^2/NDF : 6122900.8/62

In: 0.411 $\pm$ 0.000 χ^2/NDF :4880332.6/52

Out: 0.405 $\pm$ 0.000 χ^2/NDF :4962010.6/57

All: 0.408 $\pm$ 0.000 χ^2/NDF : 9849880.7/110

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.508 $\pm$ 0.000 χ^2 /NDF: 3550961875.5/29

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.058 $\pm$ 0.000 χ^2 /NDF: 7395714203.8/32

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

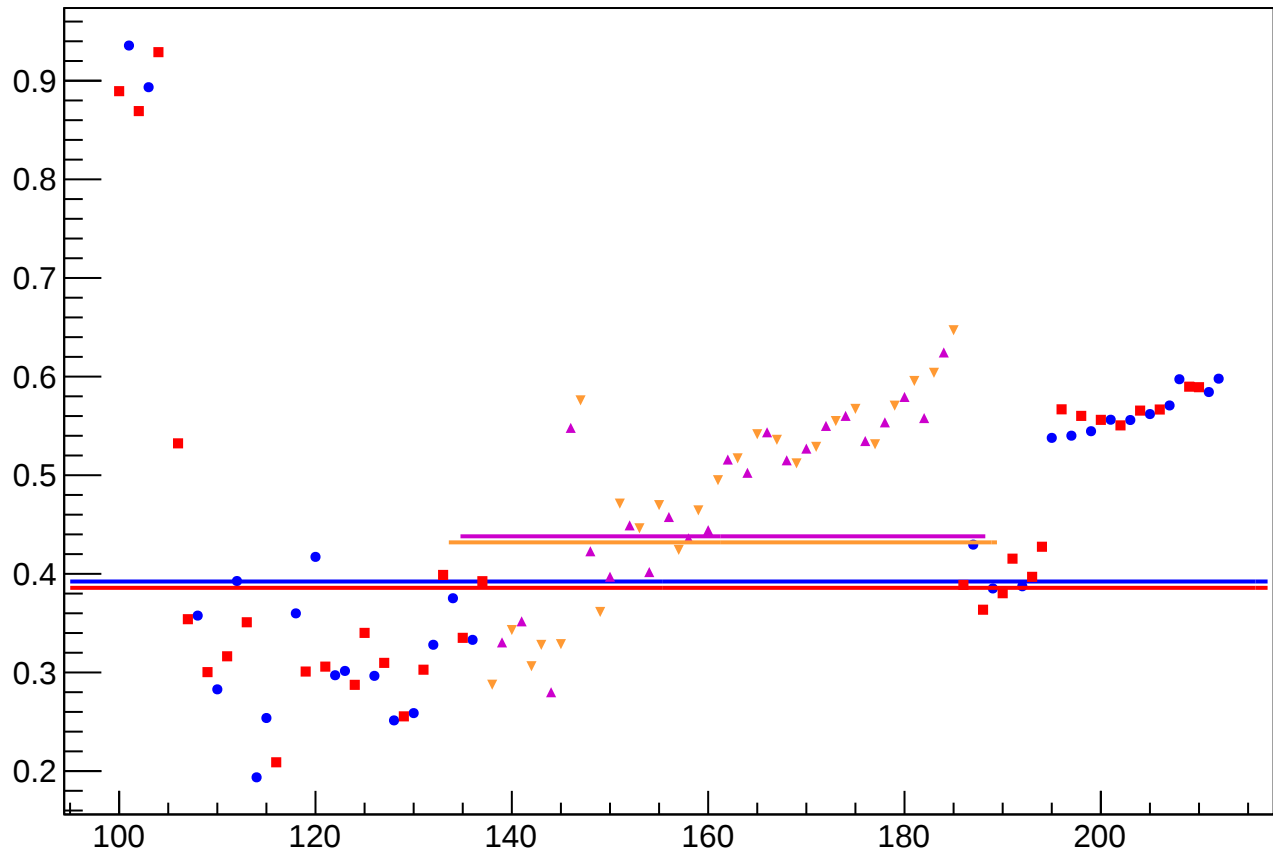
Right: 143.752 $\pm$ 0.000 χ^2 /NDF: 11042876197.6/62

In: 146.361 $\pm$ 0.000 χ^2 /NDF: 4500309126.8/52

Out: 145.798 $\pm$ 0.000 χ^2 /NDF: 8922313047.4/57

All: 146.068 $\pm$ 0.000 χ^2 /NDF: 13450972796.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.392 $\pm$ 0.000 χ^2/NDF : 3241823.3/29

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF :1924979.0/24

Right Out: 0.386 $\pm$ 0.000 χ^2/NDF : 2888002.2/32

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

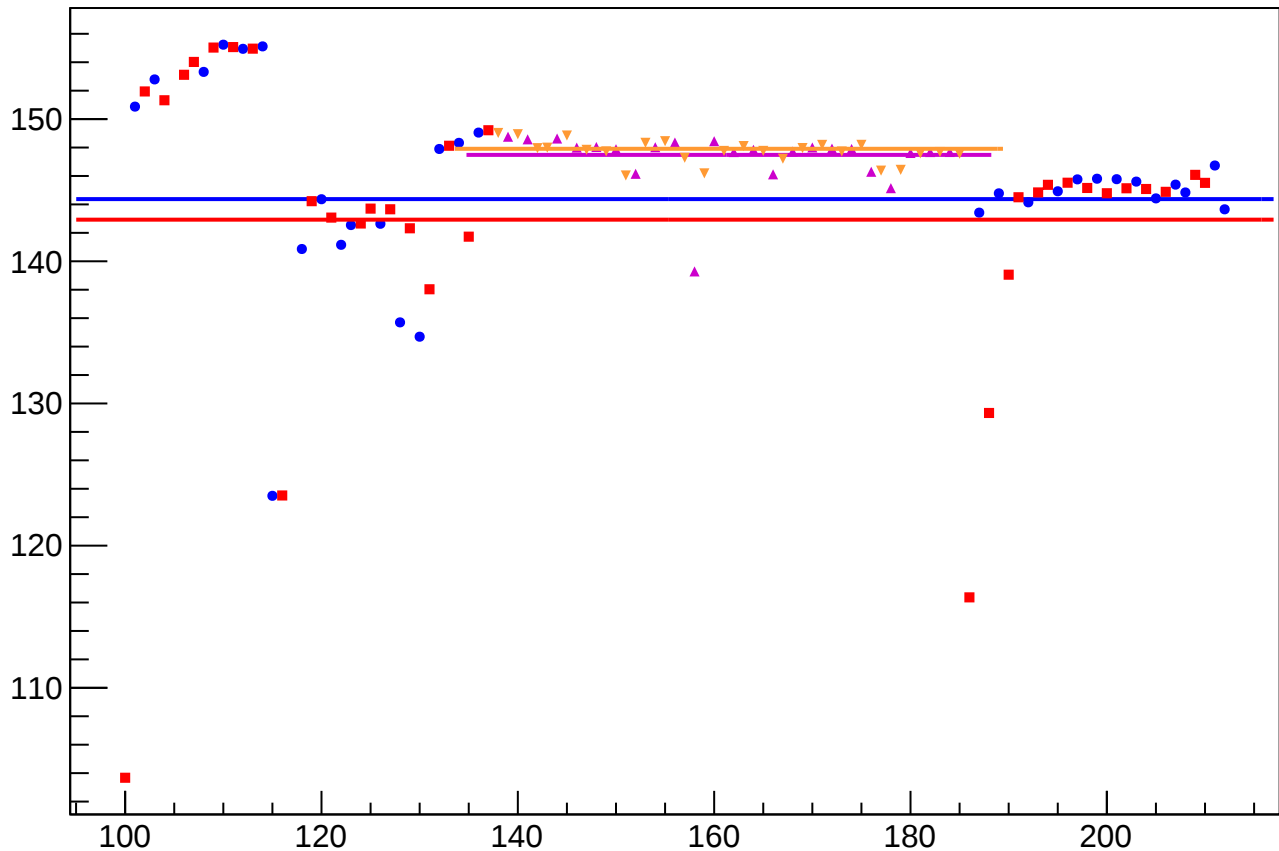
Right: 0.389 $\pm$ 0.000 χ^2/NDF : 6133608.1/62

In: 0.415 $\pm$ 0.000 χ^2/NDF :4926719.6/52

Out: 0.408 $\pm$ 0.000 χ^2/NDF :5010774.3/57

All: 0.411 $\pm$ 0.000 χ^2/NDF : 9944794.1/110

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.373+/-0.000 χ^2/NDF : 3706452714.0/29

Left Out: 147.912+/-0.000 χ^2/NDF : 64463426.1/24

Right Out: 142.928+/-0.000 χ^2/NDF : 7819808638.4/32

Left In: 147.483+/-0.000 χ^2/NDF : 342674720.4/22

Left: 147.706+/-0.000 χ^2/NDF : 415263003.2/47

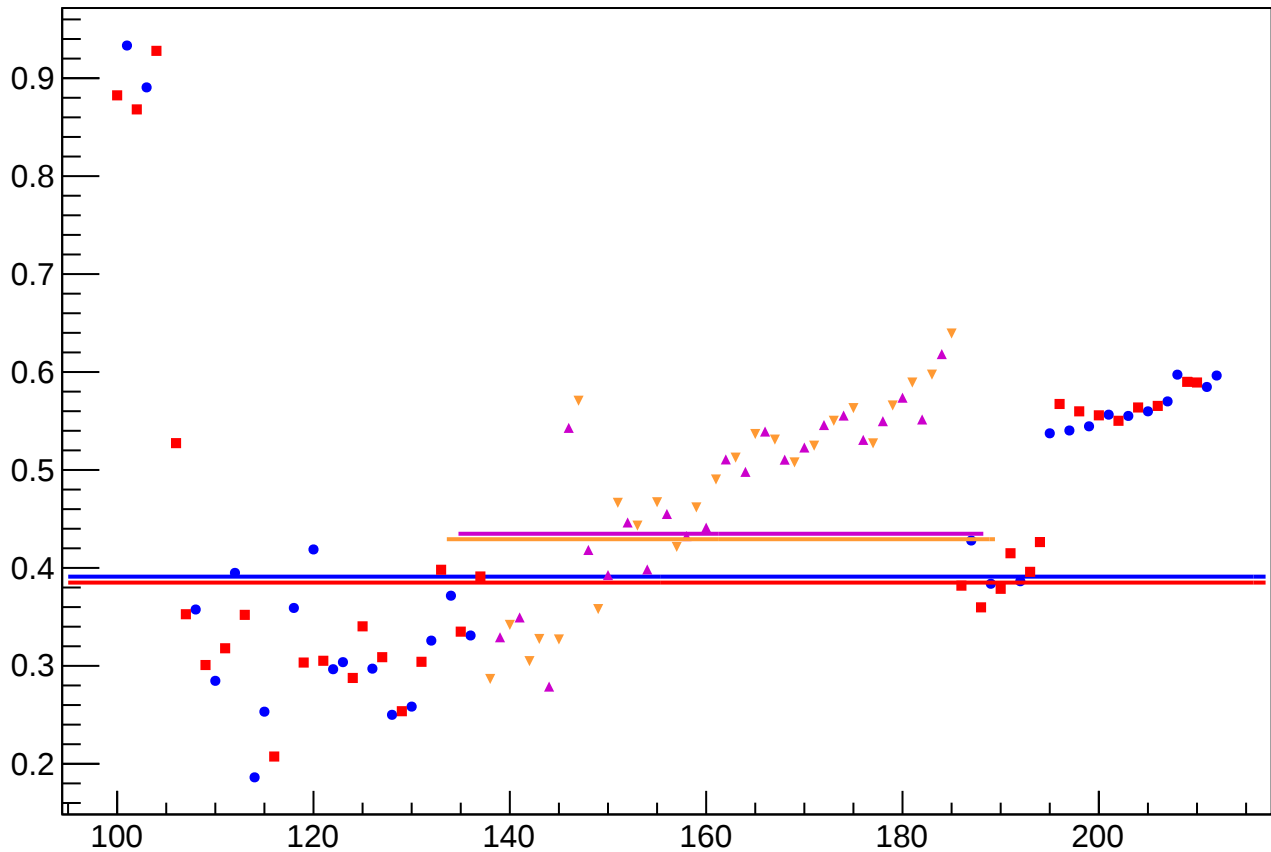
Right: 143.620+/-0.000 χ^2/NDF : 11622337687.9/62

In: 145.902+/-0.000 χ^2/NDF : 4468668037.4/52

Out: 145.365+/-0.000 χ^2/NDF : 9050378959.3/57

All: 145.623+/-0.000 χ^2/NDF : 13545103180.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.391 $\pm$ 0.000 χ^2 /NDF: 3270918.7/29

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 2891613.2/32

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

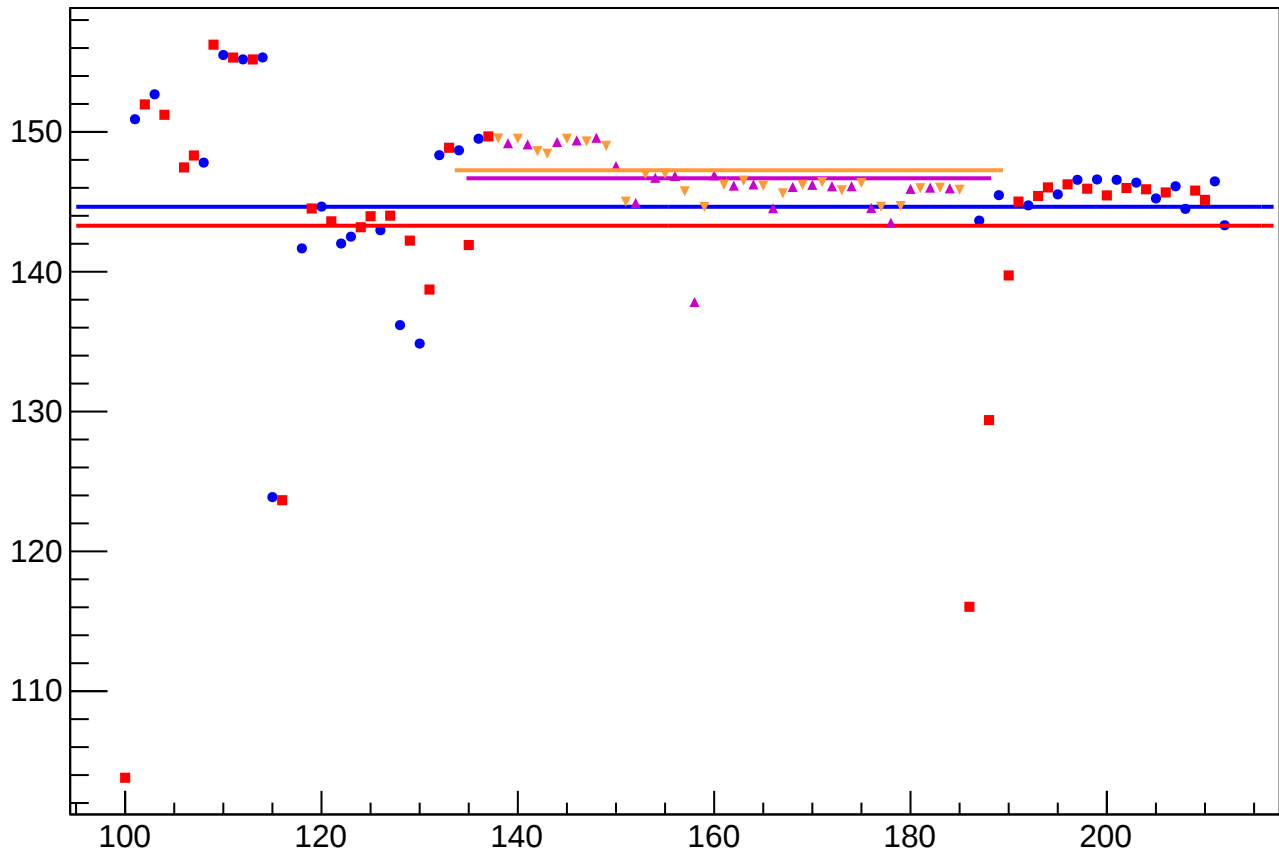
Right: 0.388 $\pm$ 0.000 χ^2 /NDF: 6165924.2/62

In: 0.413 $\pm$ 0.000 χ^2 /NDF:4923136.5/52

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:4967434.3/57

All: 0.410 $\pm$ 0.000 χ^2 /NDF: 9896947.2/110

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.647 ± 0.000 χ^2/NDF : 3229501832.7/29

Left Out: 147.257 ± 0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.291 ± 0.000 χ^2/NDF : 7141946334.2/32

Left In: 146.685 ± 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 ± 0.000 χ^2/NDF : 830580031.2/47

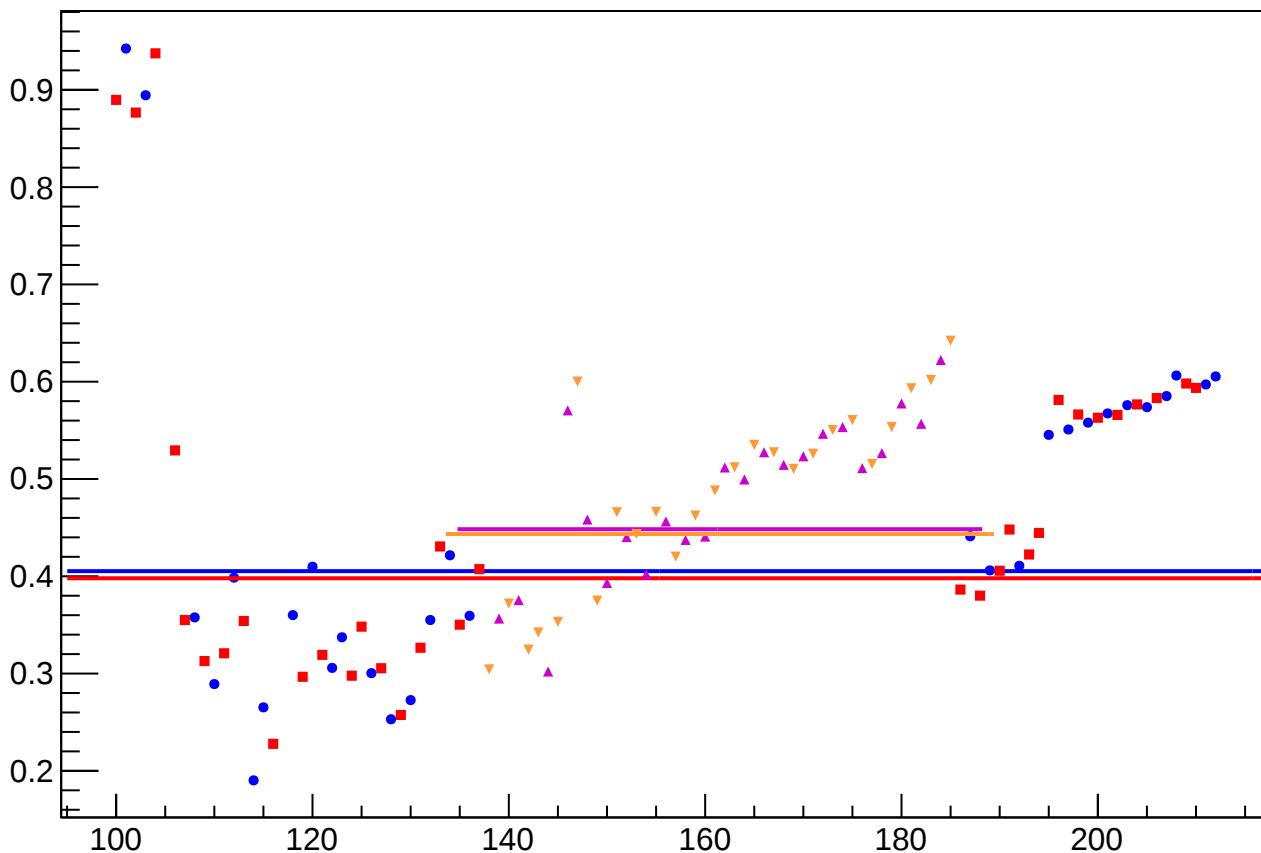
Right: 143.939 ± 0.000 χ^2/NDF : 10450299648.0/62

In: 145.659 ± 0.000 χ^2/NDF : 3953980566.7/52

Out: 145.242 ± 0.000 χ^2/NDF : 8098660558.5/57

All: 145.442 ± 0.000 χ^2/NDF : 12067369316.

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Left: 0.446 $\pm$ 0.000 χ^2/NDF : 2602838.0/47

Right: 0.401 $\pm$ 0.000 χ^2/NDF : 5969837.8/62

In: 0.427 $\pm$ 0.000 χ^2/NDF : 4437535.4/52

Out: 0.420 $\pm$ 0.000 χ^2/NDF : 4462285.2/57

All: 0.423 $\pm$ 0.000 χ^2/NDF : 8906715.5/110

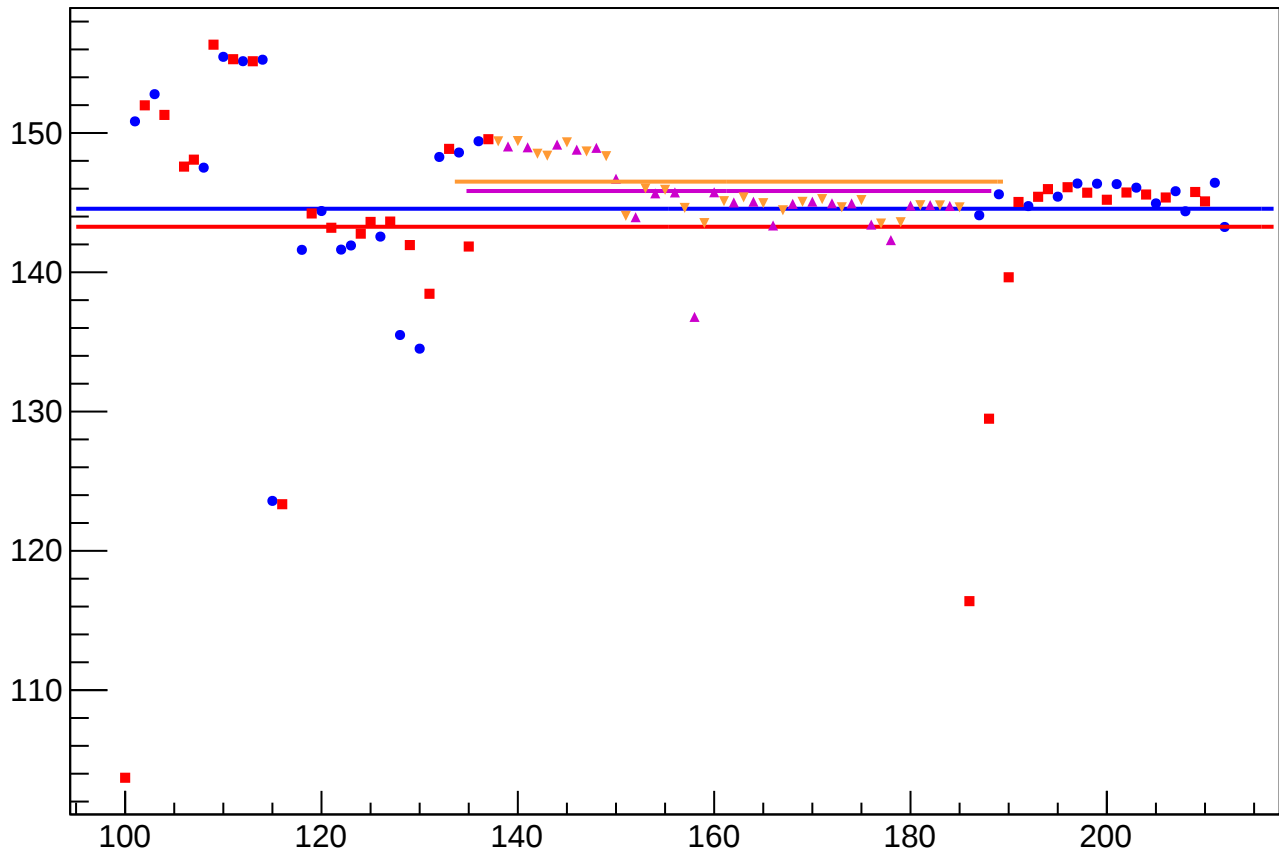
Right In: 0.405 $\pm$ 0.000 χ^2/NDF : 3165620.2/29

Left Out: 0.443 $\pm$ 0.000 χ^2/NDF : 1480479.3/24

Right Out: 0.398 $\pm$ 0.000 χ^2/NDF : 2799631.2/32

Left In: 0.448 $\pm$ 0.000 χ^2/NDF : 1120261.8/22

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.561 $\pm$ 0.000 χ^2 /NDF: 3339371215.1/29

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.268 $\pm$ 0.000 χ^2 /NDF: 7095019787.5/32

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

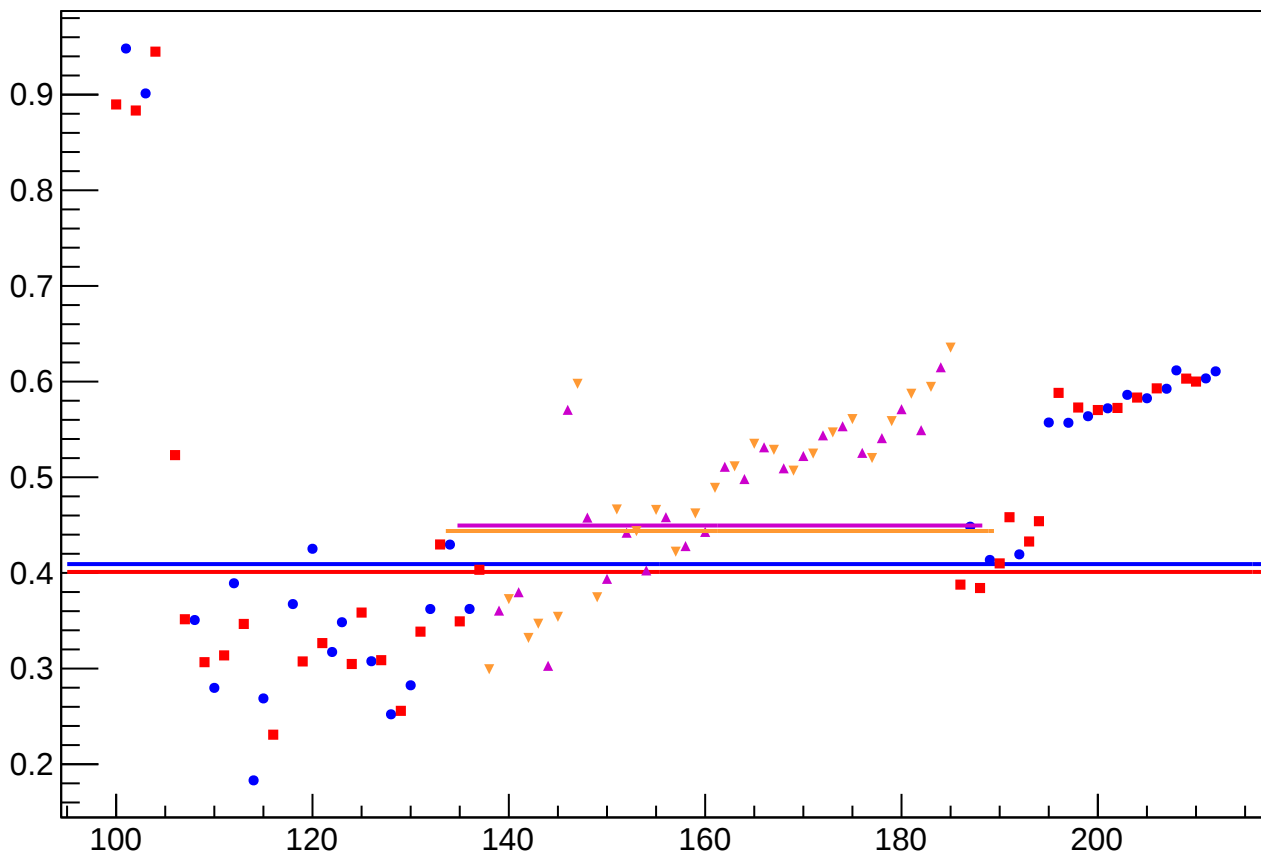
Right: 143.885 $\pm$ 0.000 χ^2 /NDF: 10504696428.7/62

In: 145.199 $\pm$ 0.000 χ^2 /NDF: 4094751059.1/52

Out: 144.875 $\pm$ 0.000 χ^2 /NDF: 7955246246.1/57

All: 145.030 $\pm$ 0.000 χ^2 /NDF: 12058790920.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2/NDF : 3214266.2/29

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF :1460383.7/24

Right Out: 0.401 $\pm$ 0.000 χ^2/NDF : 2834356.6/32

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

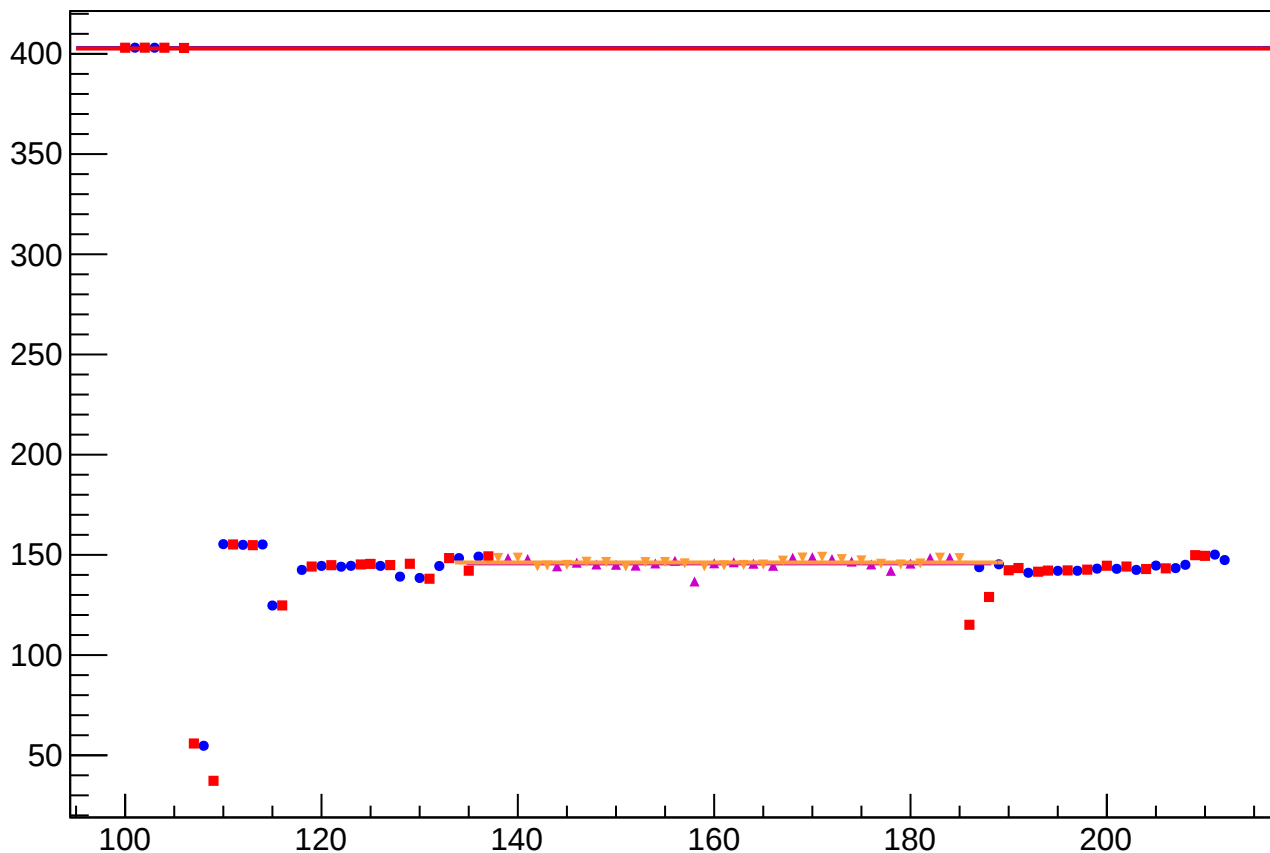
Right: 0.405 $\pm$ 0.000 χ^2/NDF : 6054280.2/62

In: 0.429 $\pm$ 0.000 χ^2/NDF :4437911.6/52

Out: 0.422 $\pm$ 0.000 χ^2/NDF :4454866.1/57

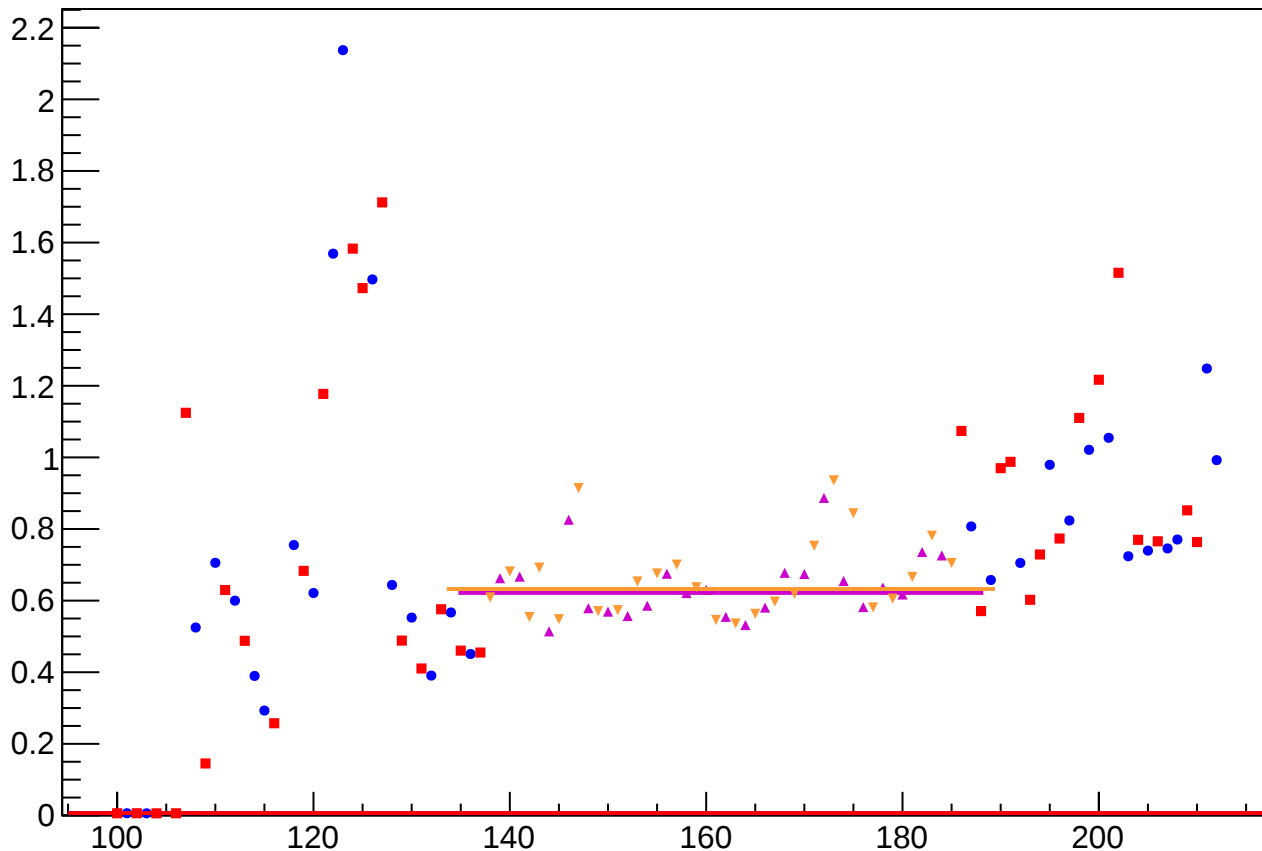
All: 0.426 $\pm$ 0.000 χ^2/NDF : 8901415.0/110

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.868+/-0.000	χ^2/NDF : 1820252243511.2/29	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.780+/-0.000	χ^2/NDF : 5805711547795.2/
Right Out: 402.703+/-0.000	χ^2/NDF : 3985012436150.0/32	In: 402.577+/-0.000	χ^2/NDF : 4150898644992.4/52
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.443+/-0.000	χ^2/NDF : 6341955481236.3/5
		All: 402.506+/-0.000	χ^2/NDF : 104931513964

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 23810141.8/29

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 24939016.7/32

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

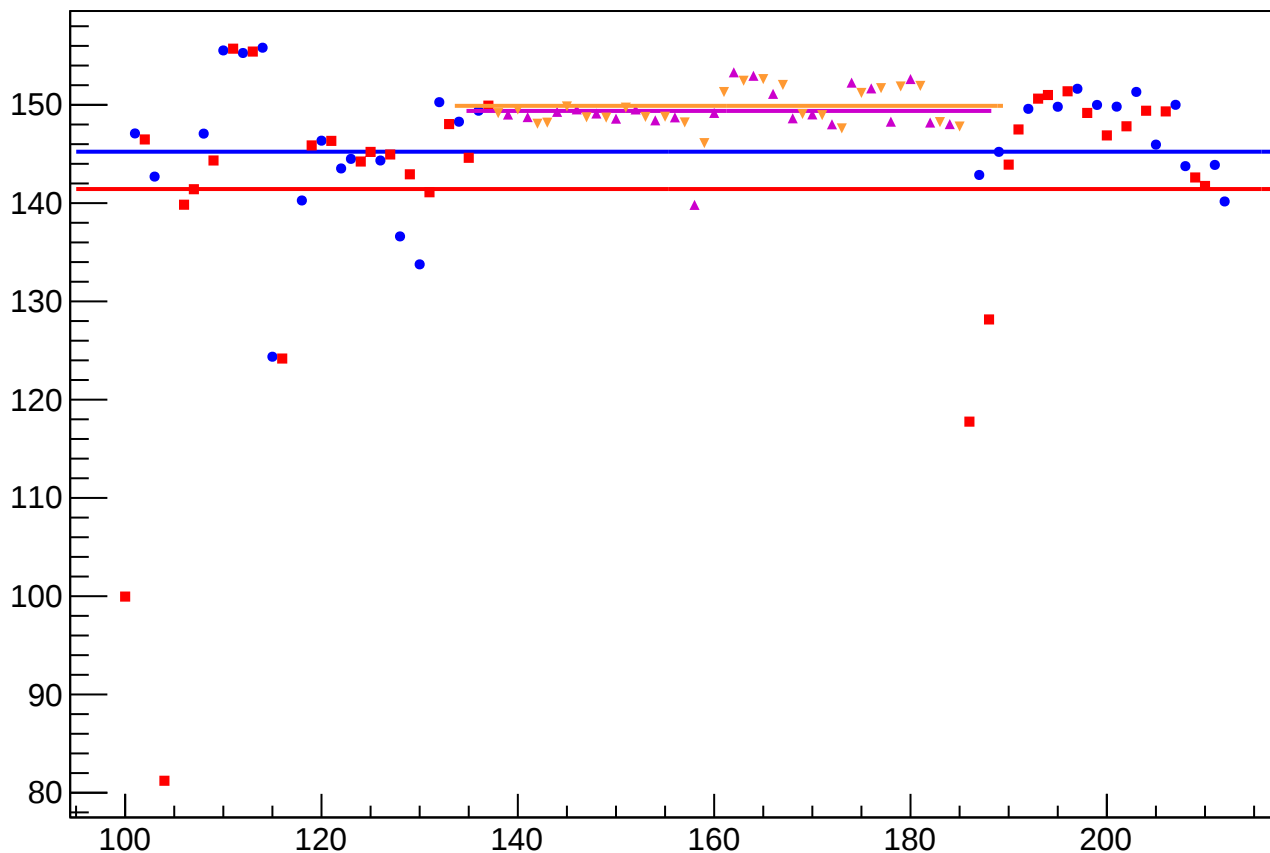
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 48749166.5/62

In: 0.007 $\pm$ 0.000 χ^2 /NDF:50875601.9/52

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:53613959.2/57

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 104489750.6/110

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.232 $\pm$ 0.000

χ^2 /NDF: 1359743221.8/29

Left: 149.650 $\pm$ 0.000

χ^2 /NDF: 604081739.6/47

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right: 143.148 $\pm$ 0.000

χ^2 /NDF: 4800241644.8/62

Right Out: 141.433 $\pm$ 0.000

χ^2 /NDF: 3249494901.4/32

In: 147.980 $\pm$ 0.000

χ^2 /NDF: 2069354051.3/52

Out: 146.799 $\pm$ 0.000

χ^2 /NDF: 4744638342.4/57

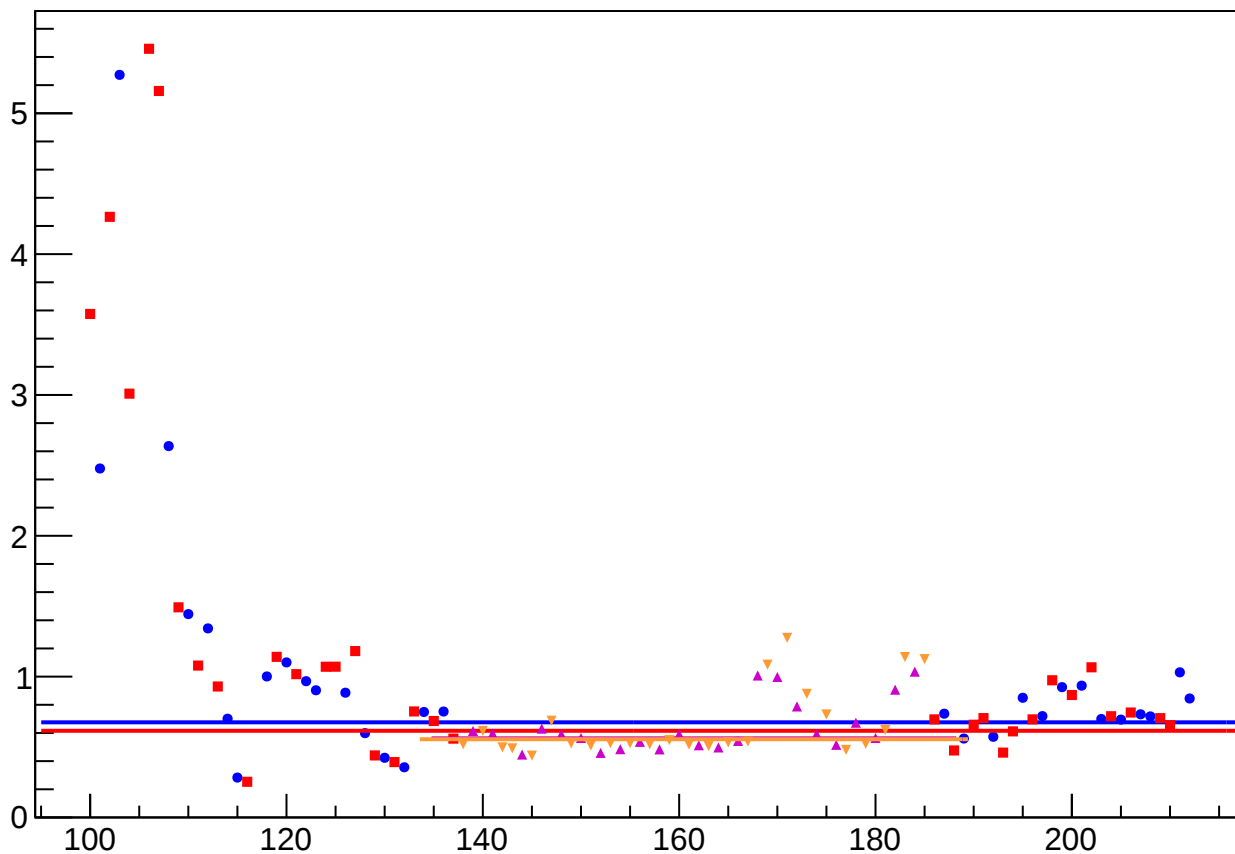
Left In: 149.382 $\pm$ 0.000

χ^2 /NDF: 434657827.5/22

All: 147.356 $\pm$ 0.000

χ^2 /NDF: 6866659670.2

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.676 $\pm$ 0.000 χ^2 /NDF: 4232501.9/29

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.615 $\pm$ 0.000 χ^2 /NDF: 5573392.2/32

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

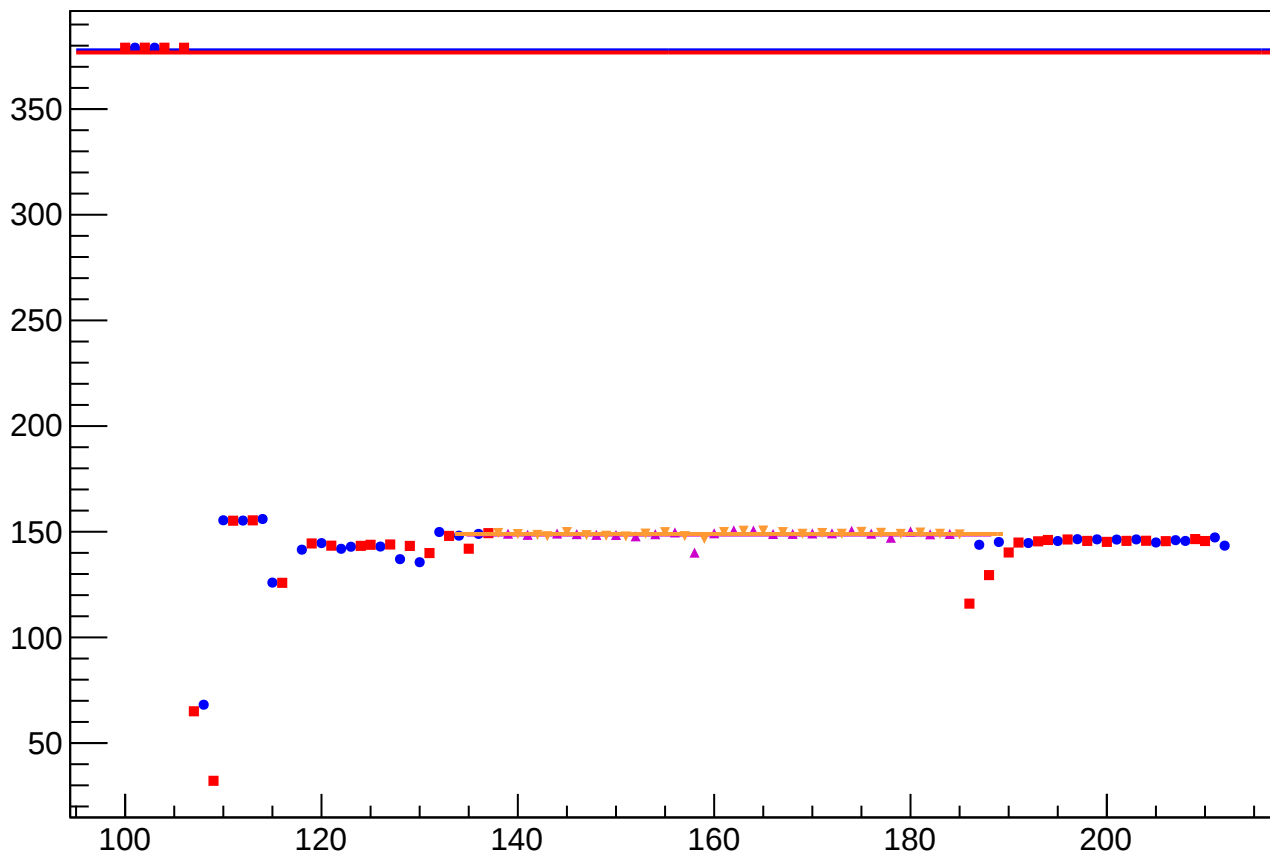
Right: 0.643 $\pm$ 0.000 χ^2 /NDF: 9901346.4/62

In: 0.600 $\pm$ 0.000 χ^2 /NDF:5951500.2/52

Out: 0.577 $\pm$ 0.000 χ^2 /NDF:7480890.8/57

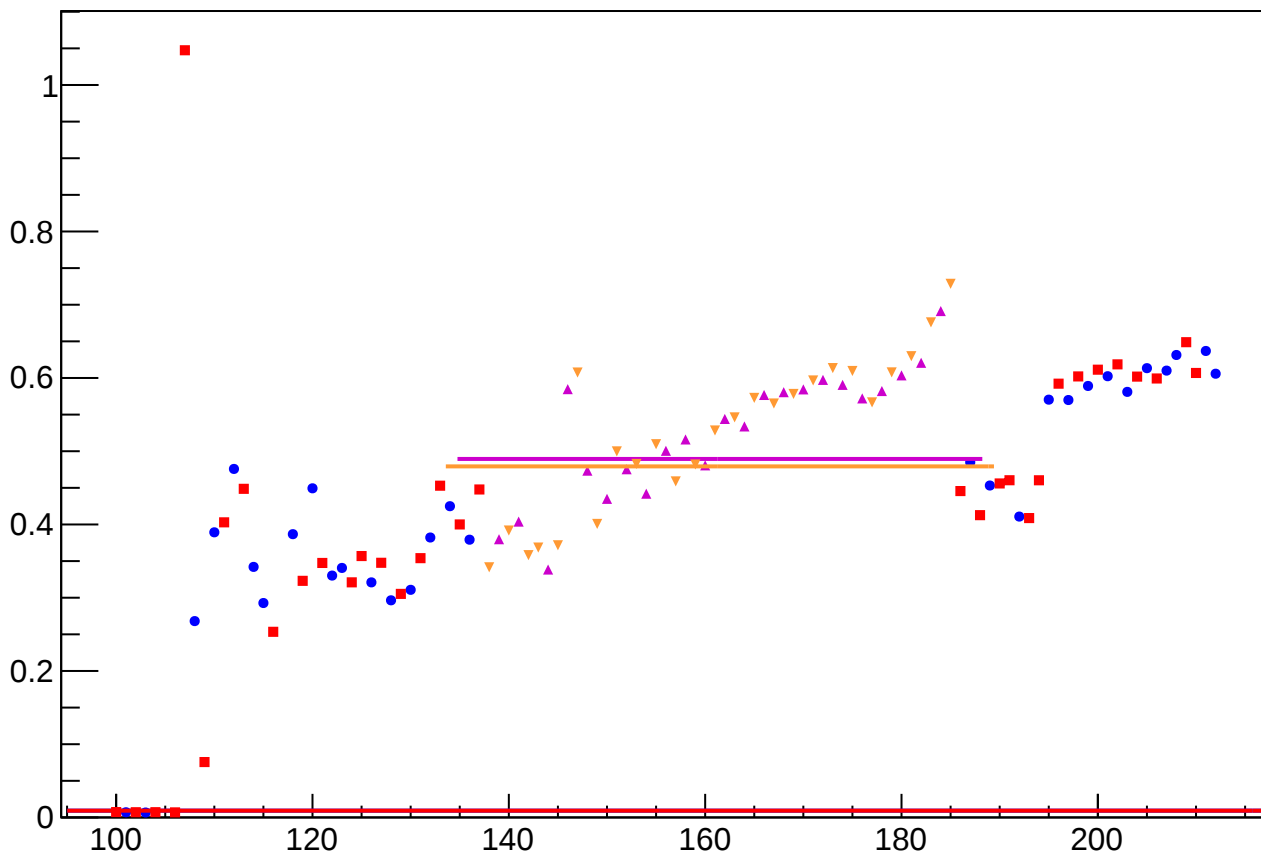
All: 0.588 $\pm$ 0.000 χ^2 /NDF: 13471406.3/110

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.787+/-0.000	χ^2/NDF : 4043472177937.9/29	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.245+/-0.000	χ^2/NDF : 14191017602753.0
Right Out: 376.770+/-0.000	χ^2/NDF : 10140194997071.3/32	In: 376.619+/-0.000	χ^2/NDF : 7615782495865.3/52
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.657+/-0.000	χ^2/NDF : 13998721055642.2
		All: 376.107+/-0.000	χ^2/NDF : 216211093926.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 27104466.0/29

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 27285444.5/32

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

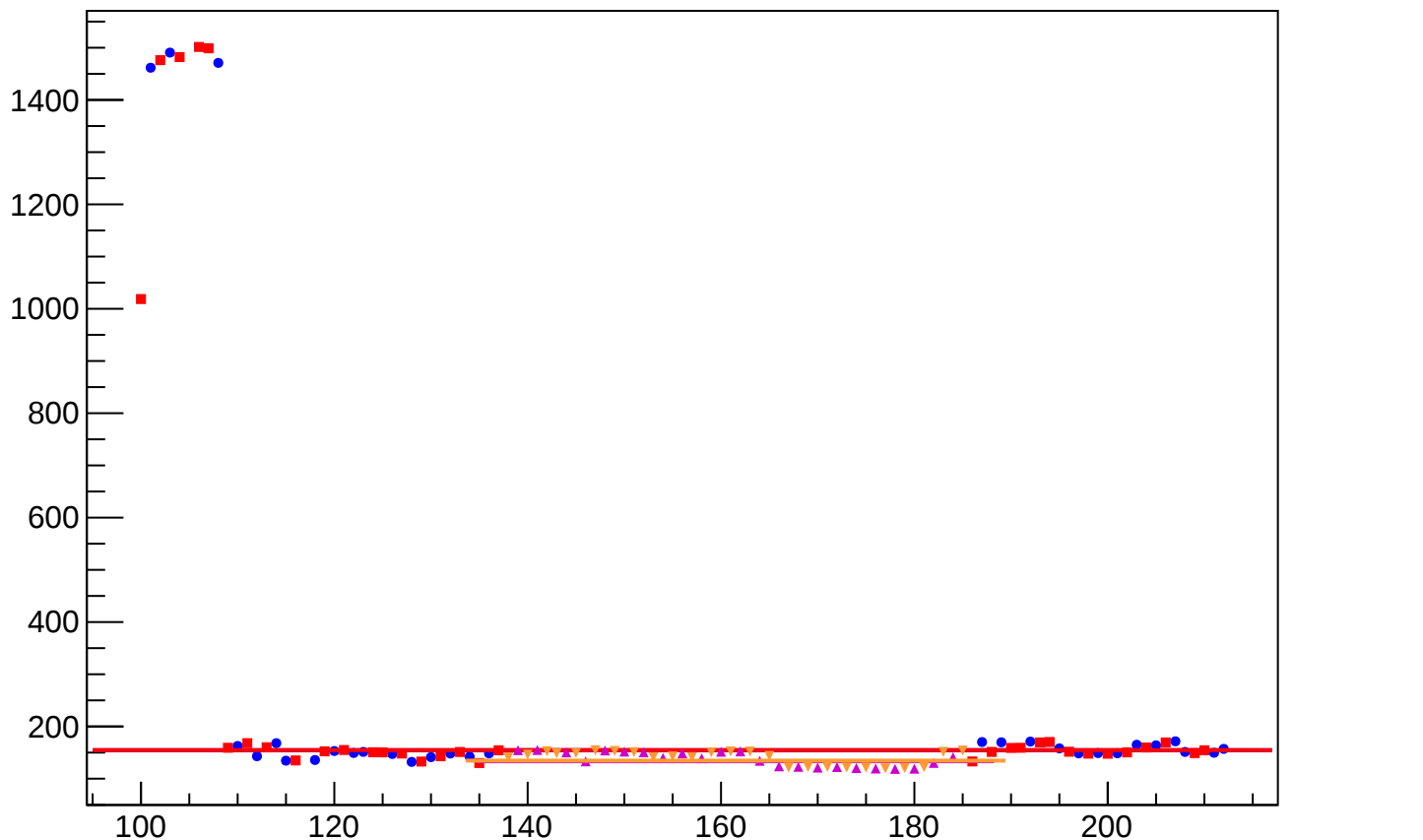
Right: 0.009+/-0.000 χ^2/NDF : 54389920.1/62

In: 0.012+/-0.000 χ^2/NDF :59560151.1/52

Out: 0.012+/-0.000 χ^2/NDF :61650127.6/57

All: 0.012+/-0.000 χ^2/NDF : 121210732.2/110

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.601+/-0.000 χ^2/NDF : 25980796340.4/29

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 154.691+/-0.000 χ^2/NDF : 35042212341.7/32

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

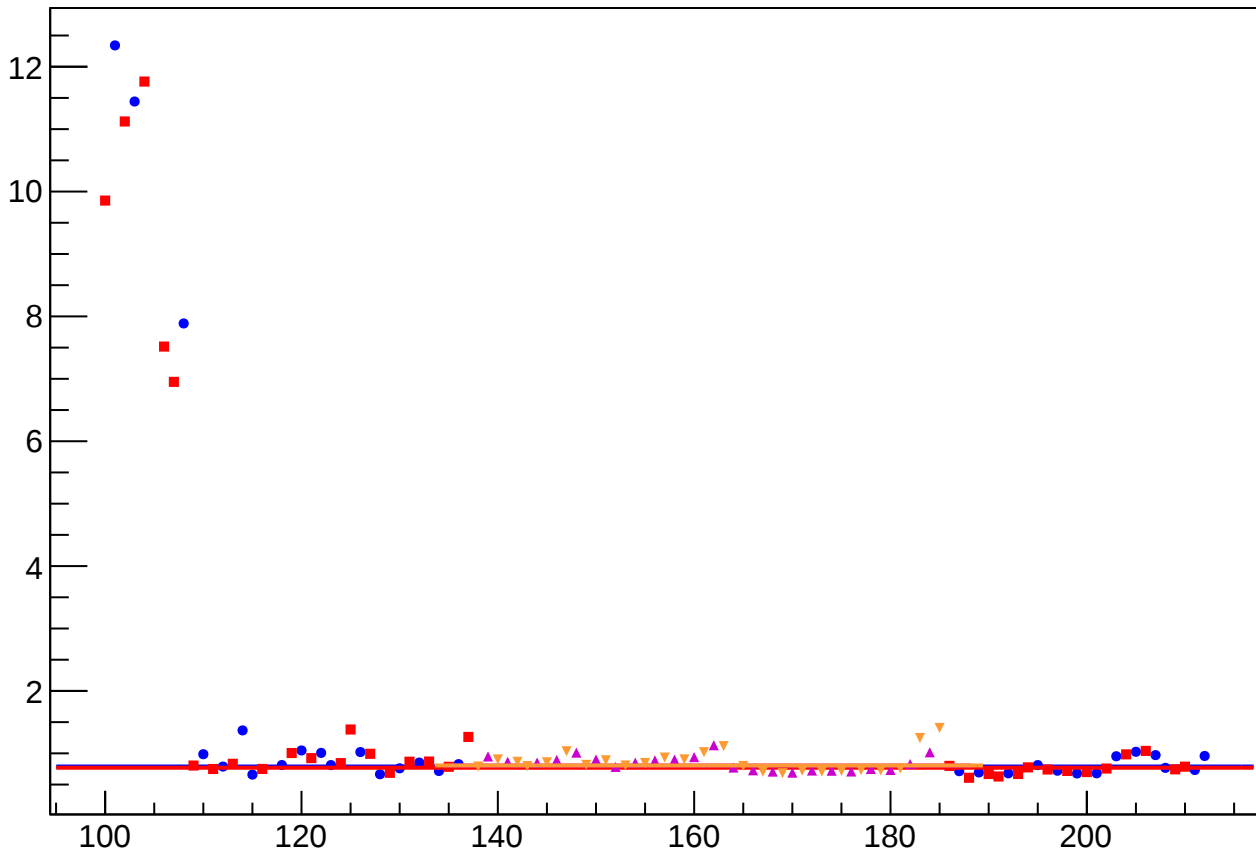
Right: 154.648+/-0.000 χ^2/NDF : 61023088366.0/62

In: 142.964+/-0.000 χ^2/NDF : 34939690782.1/52

Out: 143.895+/-0.000 χ^2/NDF : 43879737093.7/57

All: 143.444+/-0.000 χ^2/NDF : 78837987243.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.789 $\pm$ 0.000 χ^2 /NDF: 3052273.1/29

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 3300100.3/32

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

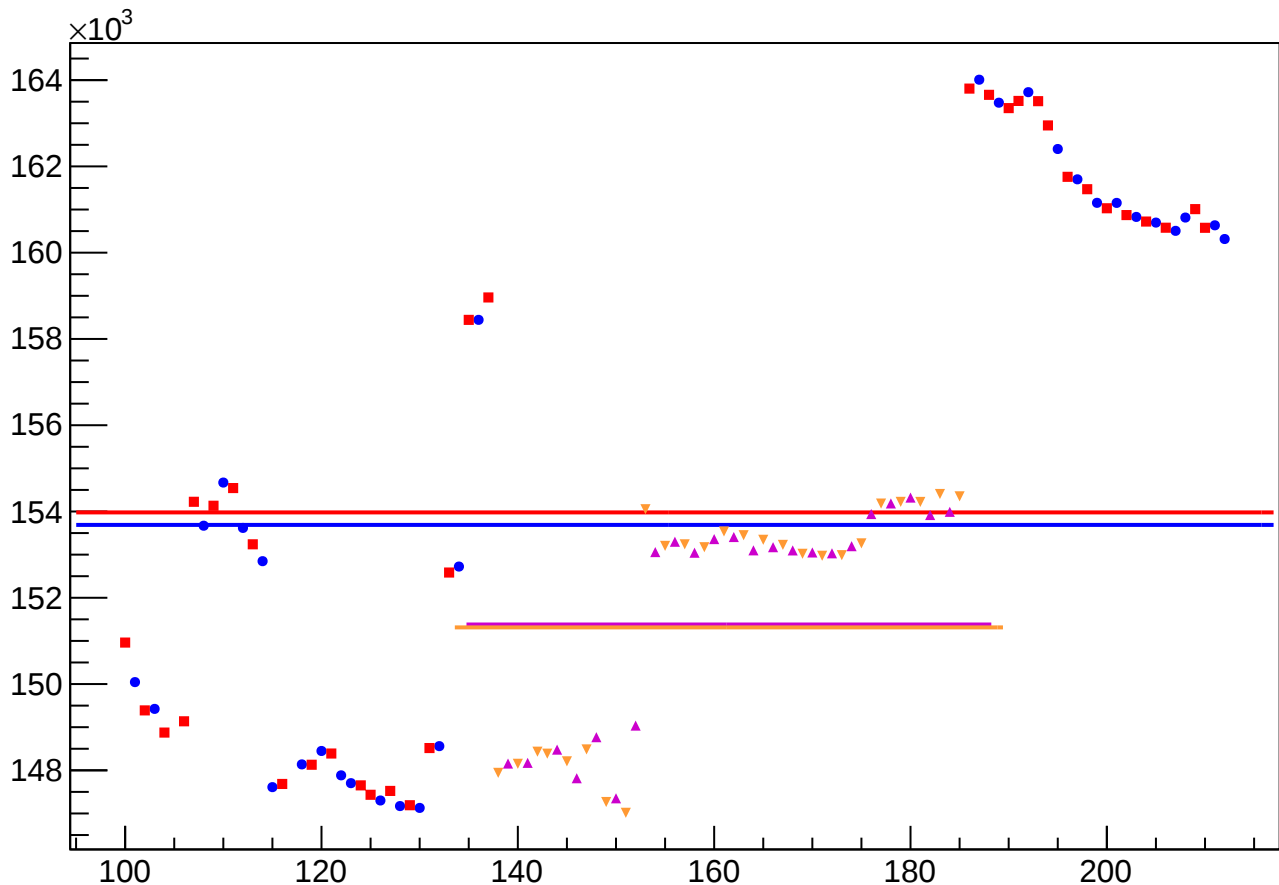
Right: 0.779 $\pm$ 0.000 χ^2 /NDF: 6359813.3/62

In: 0.798 $\pm$ 0.000 χ^2 /NDF:3537838.5/52

Out: 0.789 $\pm$ 0.000 χ^2 /NDF:4019960.9/57

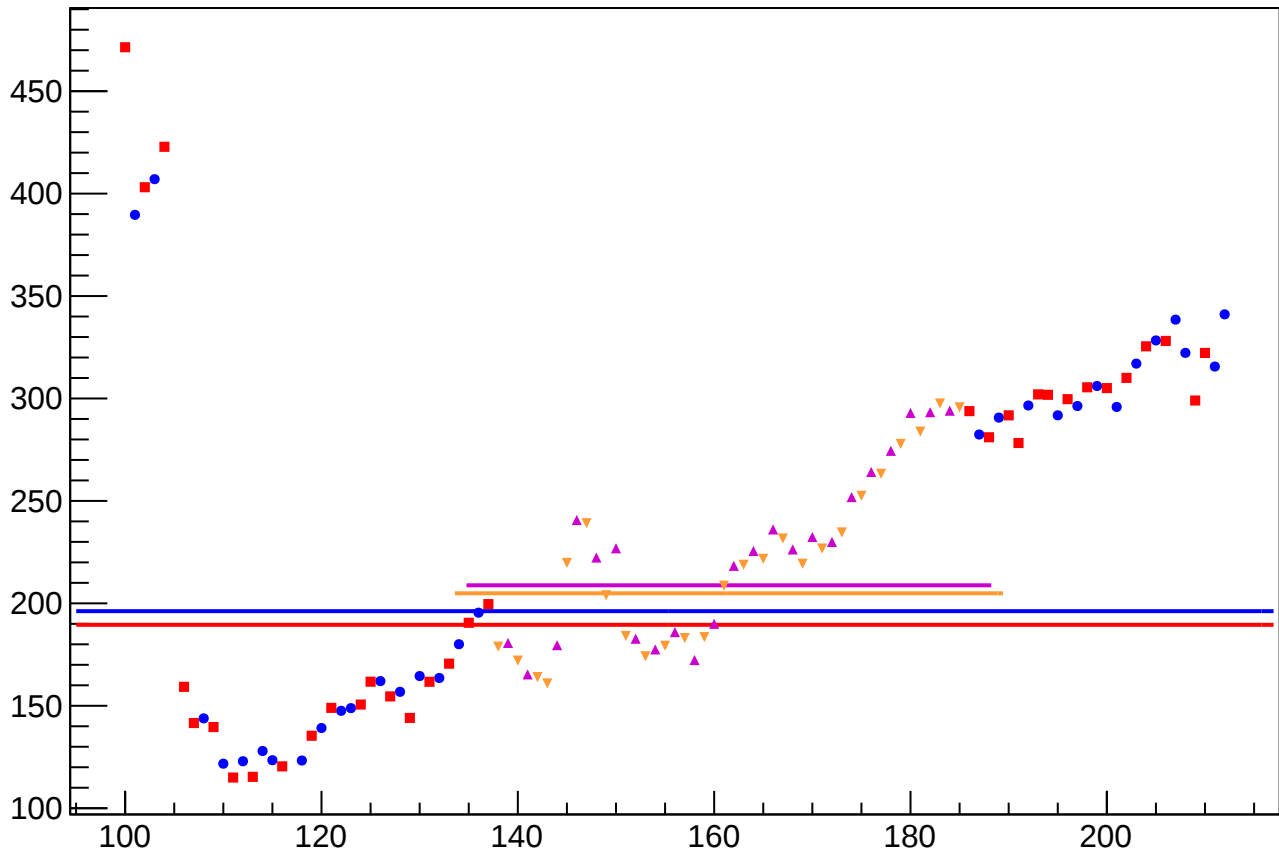
All: 0.793 $\pm$ 0.000 χ^2 /NDF: 7560883.5/110

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153689.133+/-0.054	χ^2/NDF : 11644435925.1/29	Left: 151345.082+/-0.035	χ^2/NDF : 5518562148.3/4
Left Out: 151313.284+/-0.049	χ^2/NDF : 3153768134.8/24	Right: 153840.885+/-0.037	χ^2/NDF : 23949660341.1/24
Right Out: 153978.818+/-0.051	χ^2/NDF : 12289968129.5/32	In: 152479.895+/-0.037	χ^2/NDF : 14977288557.8/5
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 152579.556+/-0.035	χ^2/NDF : 16867825040.7/22
		All: 152532.166+/-0.026	χ^2/NDF : 318489095.3/22

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 196.192 $\pm$ 0.038 χ^2 /NDF: 4617347.9/29

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 189.536 $\pm$ 0.036 χ^2 /NDF: 4831179.0/32

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

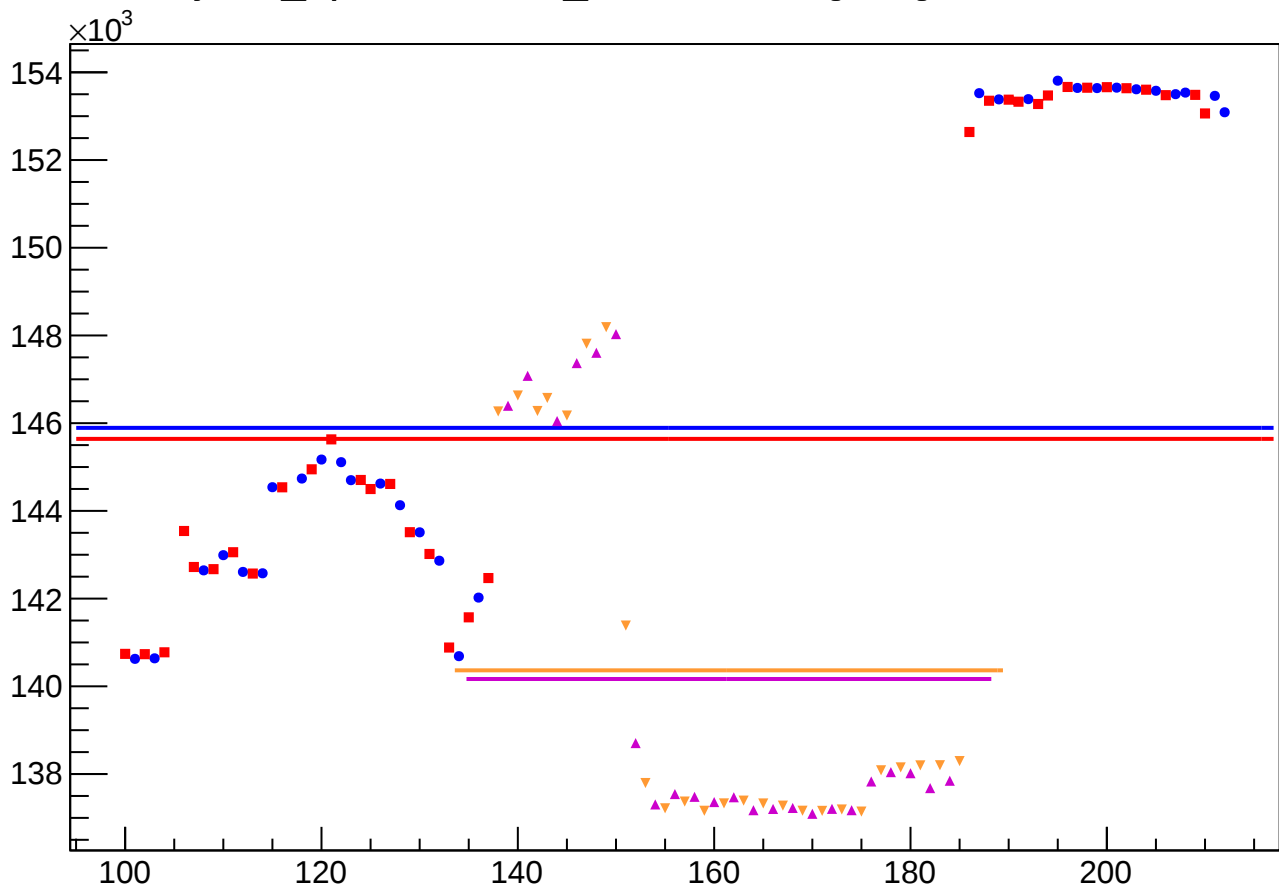
Right: 192.705 $\pm$ 0.026 χ^2 /NDF: 9464633.9/62

In: 202.802 $\pm$ 0.026 χ^2 /NDF: 5677189.5/52

Out: 197.601 $\pm$ 0.025 χ^2 /NDF: 5982181.4/57

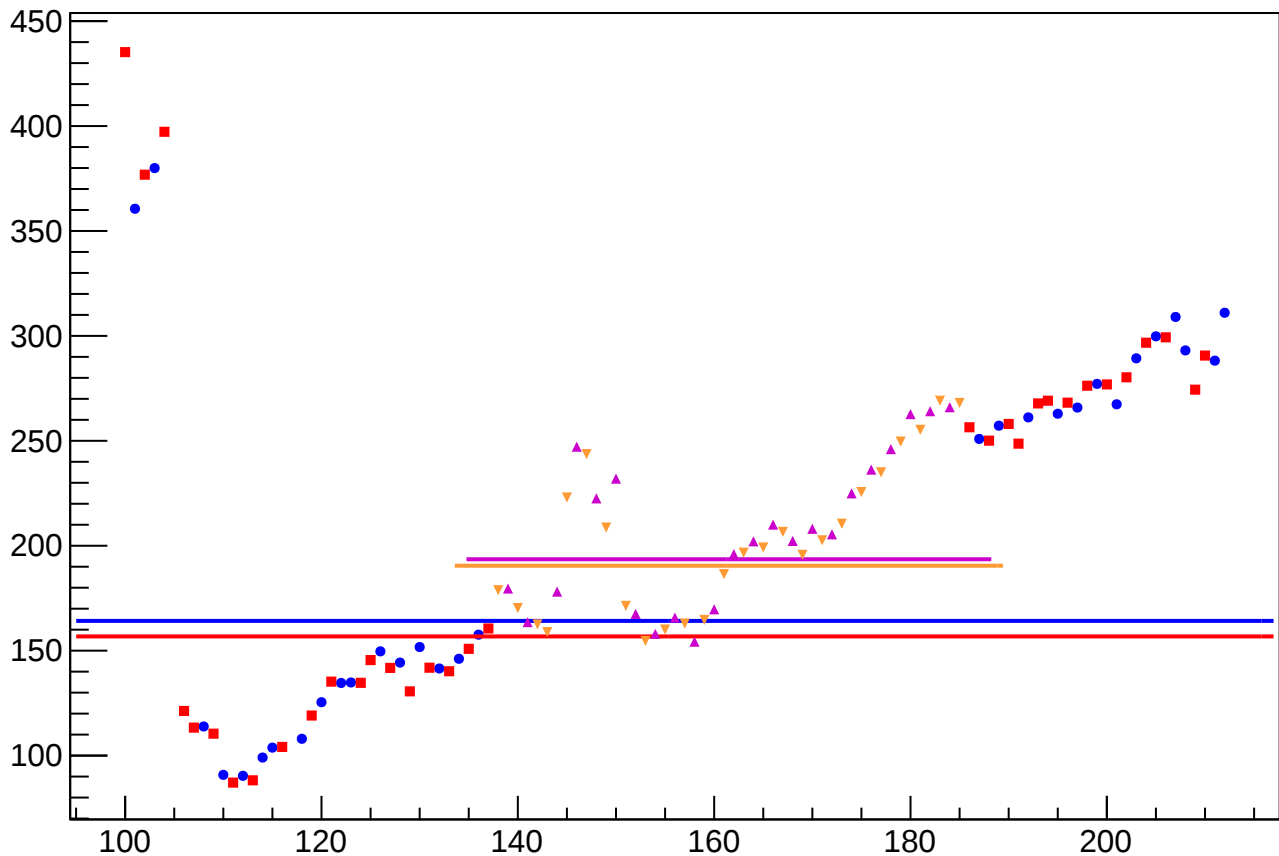
All: 200.074 $\pm$ 0.018 χ^2 /NDF: 11680044.2/111

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145893.134+/-0.046	χ^2/NDF : 9658241250.6/29	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 145759.633+/-0.031	χ^2/NDF : 20213792311.8
Right Out: 145641.850+/-0.043	χ^2/NDF : 10539568330.7/32	In: 143130.434+/-0.033	χ^2/NDF : 25223760541.5/5
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 143133.743+/-0.031	χ^2/NDF : 26364362120.9/
		All: 143132.180+/-0.023	χ^2/NDF : 515881279

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 164.187 $\pm$ 0.032 χ^2 /NDF: 5662670.4/29

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF: 950233.2/24

Right Out: 156.779 $\pm$ 0.030 χ^2 /NDF: 5926610.7/32

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

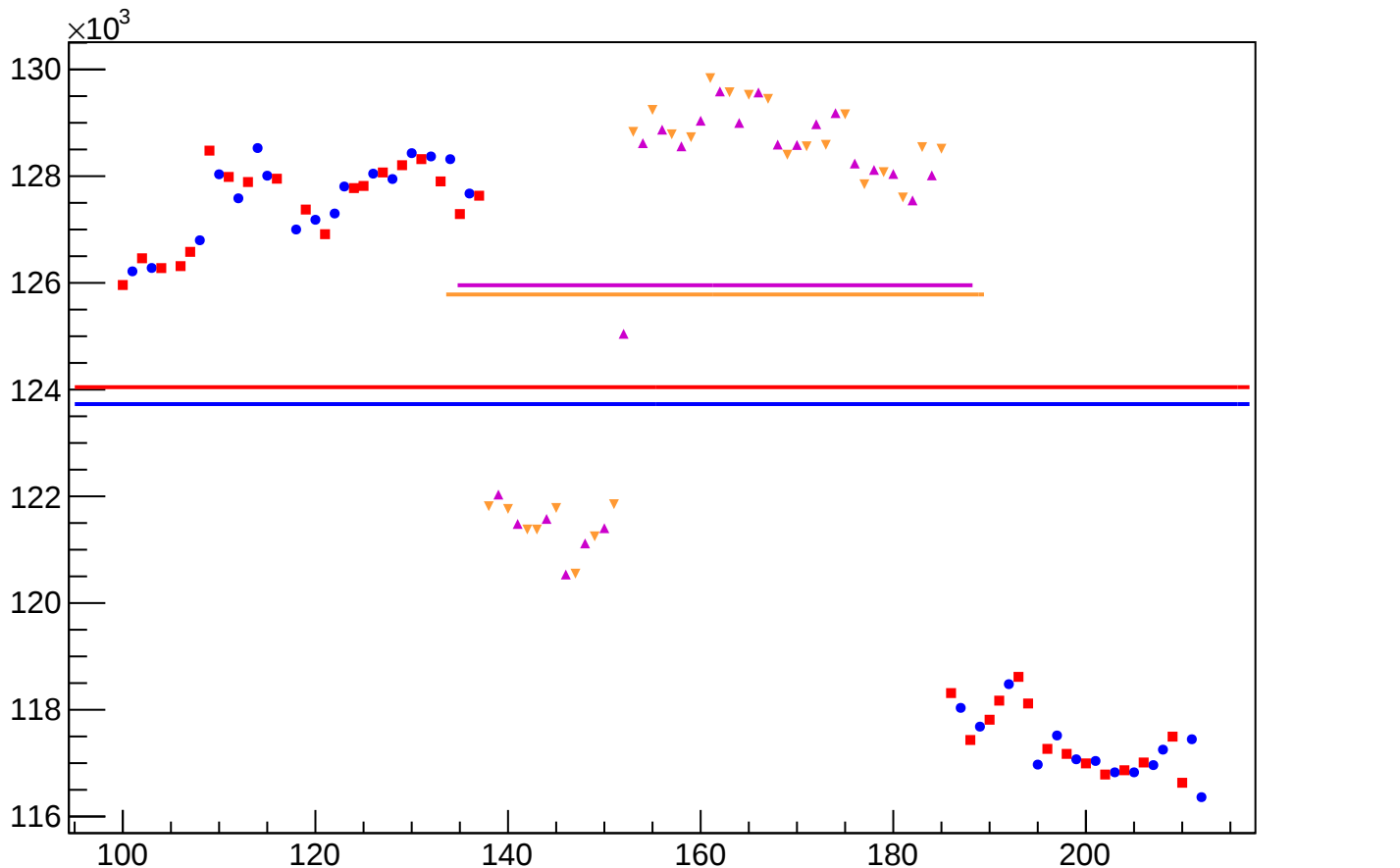
Right: 160.251 $\pm$ 0.022 χ^2 /NDF: 11617058.6/62

In: 178.358 $\pm$ 0.023 χ^2 /NDF: 7022948.7/52

Out: 172.798 $\pm$ 0.022 χ^2 /NDF: 7460005.0/57

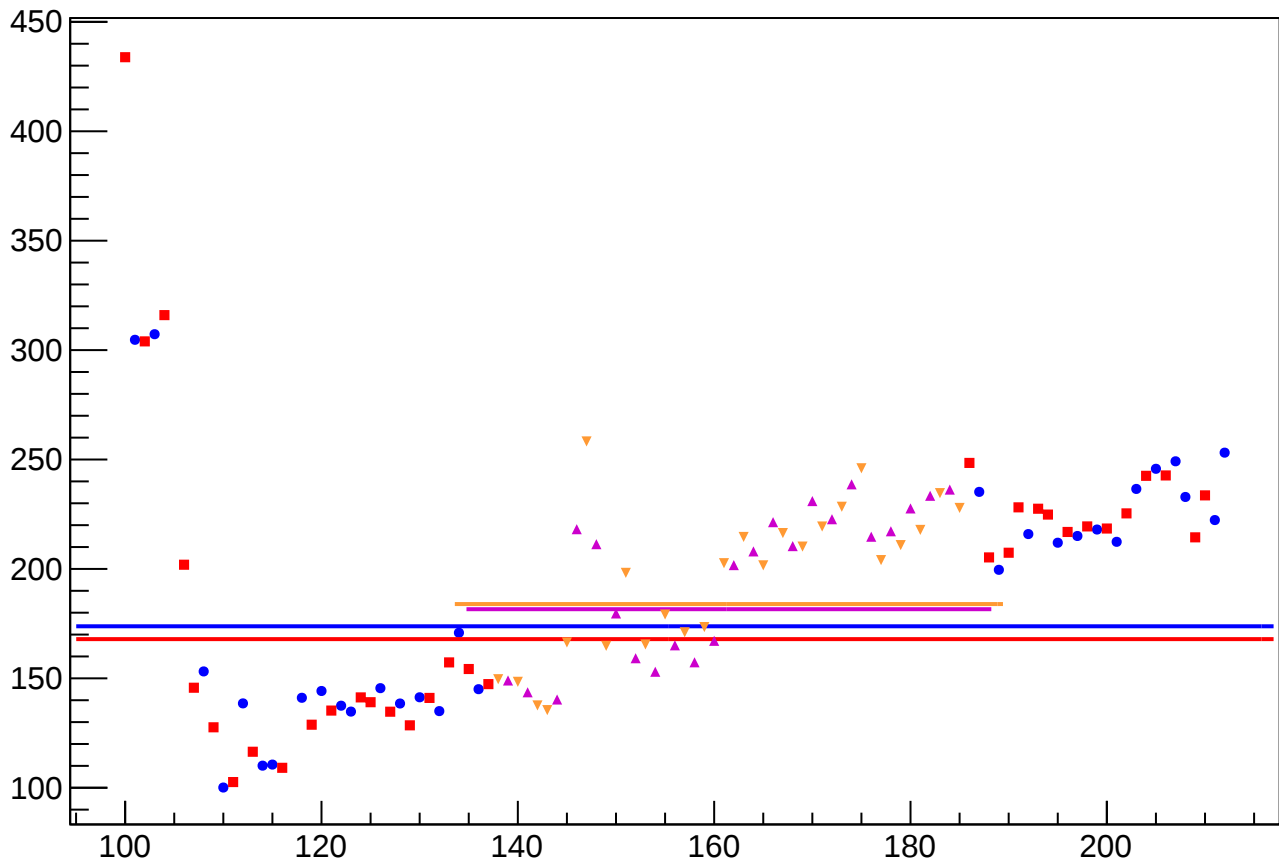
All: 175.423 $\pm$ 0.016 χ^2 /NDF: 14512986.6/111

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123728.521 $\pm$ 0.046	χ^2 /NDF: 12428551630.8/29	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/29
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 123894.401 $\pm$ 0.032	χ^2 /NDF: 25372525894.1/24
Right Out: 124045.830 $\pm$ 0.044	χ^2 /NDF: 12918872774.0/32	In: 124866.317 $\pm$ 0.032	χ^2 /NDF: 19441100234.0/32
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 124909.315 $\pm$ 0.031	χ^2 /NDF: 20432151650.8/22
		All: 124888.497 $\pm$ 0.022	χ^2 /NDF: 398741818.1/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 173.788 $\pm$ 0.032 χ^2 /NDF: 2441222.0/29

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF:1123194.0/24

Right Out: 167.921 $\pm$ 0.031 χ^2 /NDF: 2806811.7/32

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

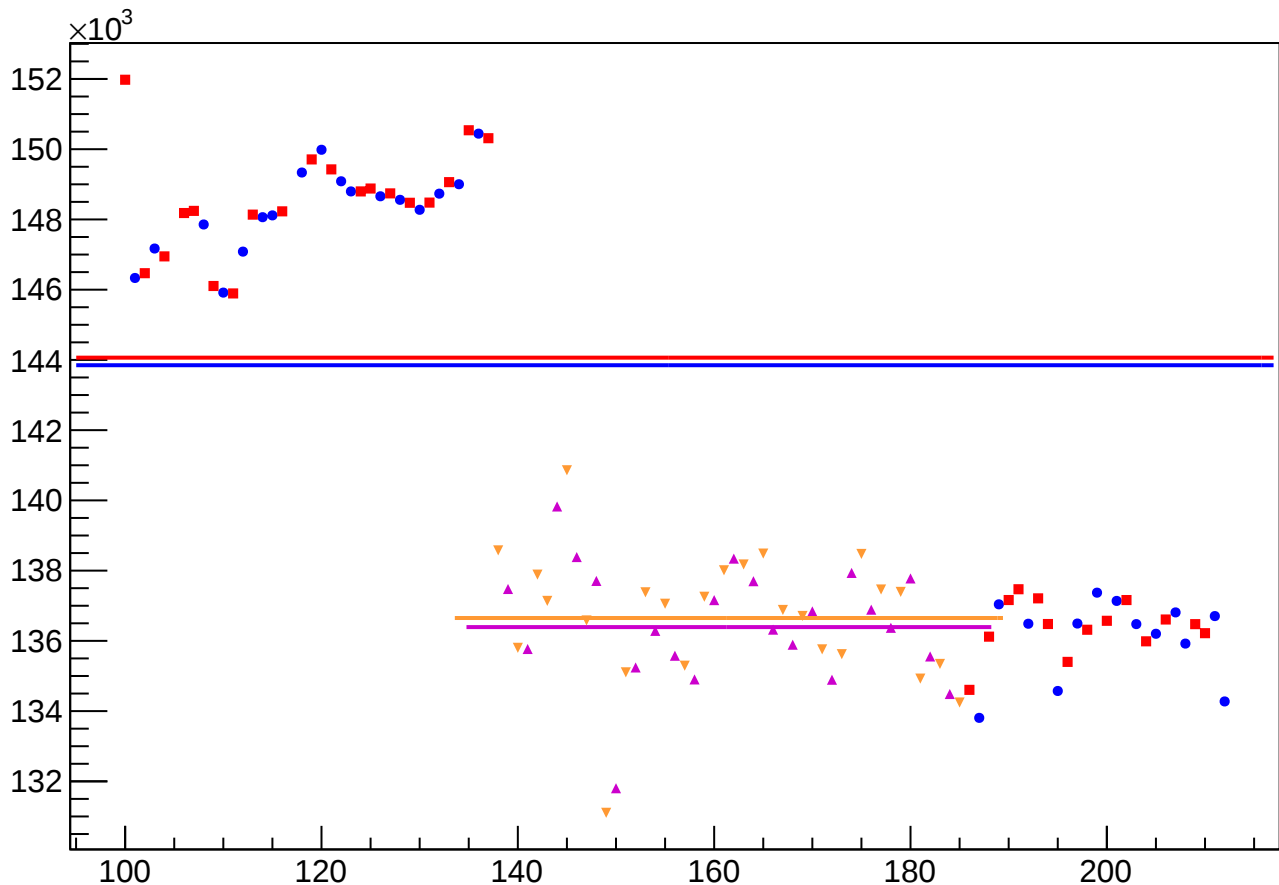
Right: 170.721 $\pm$ 0.022 χ^2 /NDF: 5265197.4/62

In: 177.777 $\pm$ 0.023 χ^2 /NDF:3574447.4/52

Out: 175.888 $\pm$ 0.022 χ^2 /NDF:4063396.2/57

All: 176.803 $\pm$ 0.016 χ^2 /NDF: 7641433.0/110

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143848.809 $\pm$ 0.065

χ^2 /NDF: 8785760831.3/29

Left: 136524.219 $\pm$ 0.046

χ^2 /NDF: 1640486942.5/4

Left Out: 136650.935 $\pm$ 0.065

χ^2 /NDF: 930649595.5/24

Right: 143962.259 $\pm$ 0.045

χ^2 /NDF: 17767936418.1/1

Right Out: 144064.449 $\pm$ 0.061

χ^2 /NDF: 8976333312.9/32

In: 140192.189 $\pm$ 0.046

χ^2 /NDF: 15999115810.2/5

Out: 140546.404 $\pm$ 0.045

χ^2 /NDF: 16821650452.1/1

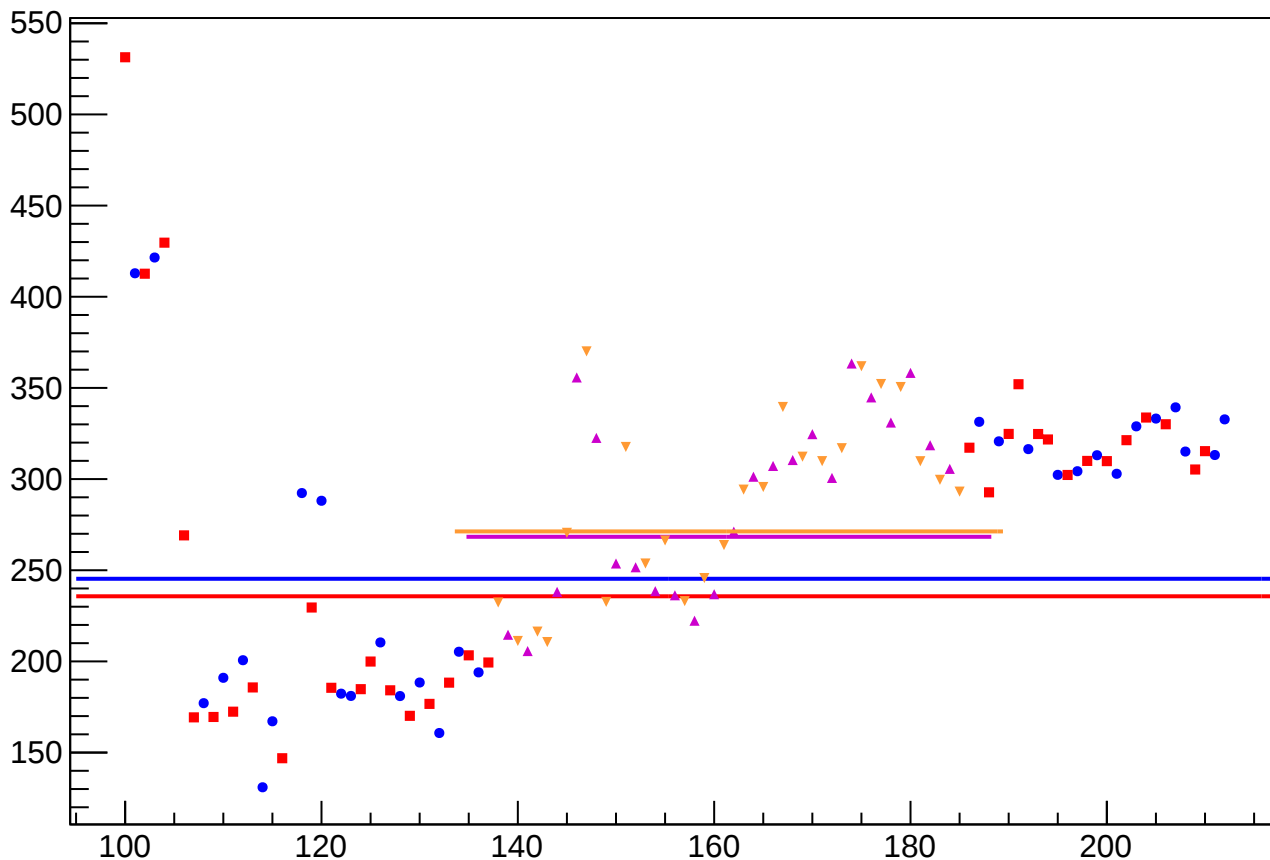
Left In: 136392.188 $\pm$ 0.066

χ^2 /NDF: 701986841.4/22

All: 140375.839 $\pm$ 0.032

χ^2 /NDF: 328512498.1/1

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 245.316+/-0.046 χ^2/NDF : 2513309.6/29

Left Out: 271.295+/-0.046 χ^2/NDF :1064485.7/24

Right Out: 235.715+/-0.043 χ^2/NDF : 2718708.3/32

Left In: 268.344+/-0.047 χ^2/NDF :1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

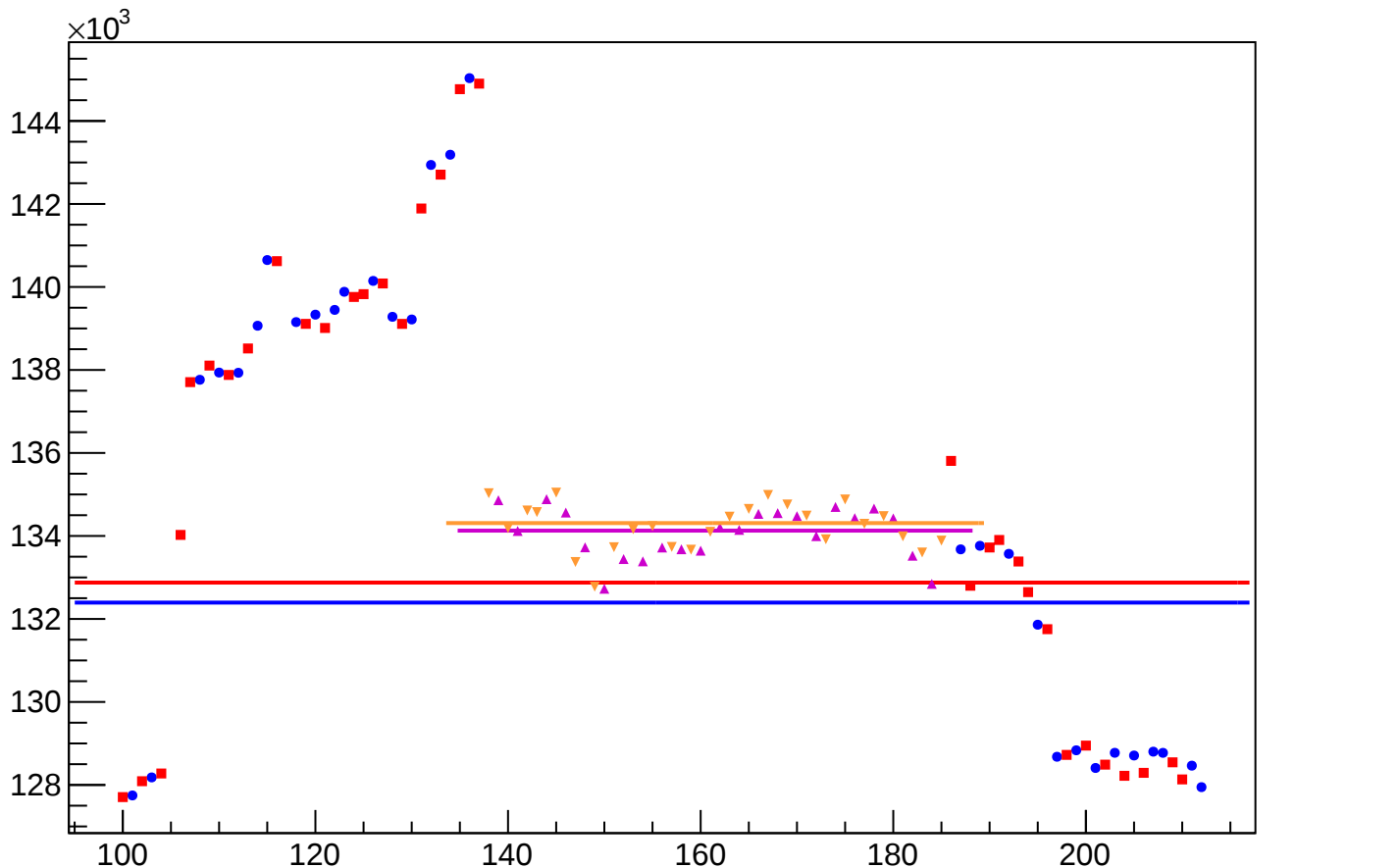
Right: 240.265+/-0.031 χ^2/NDF : 5255183.3/62

In: 256.608+/-0.033 χ^2/NDF :3714869.0/52

Out: 252.599+/-0.031 χ^2/NDF :4101744.4/57

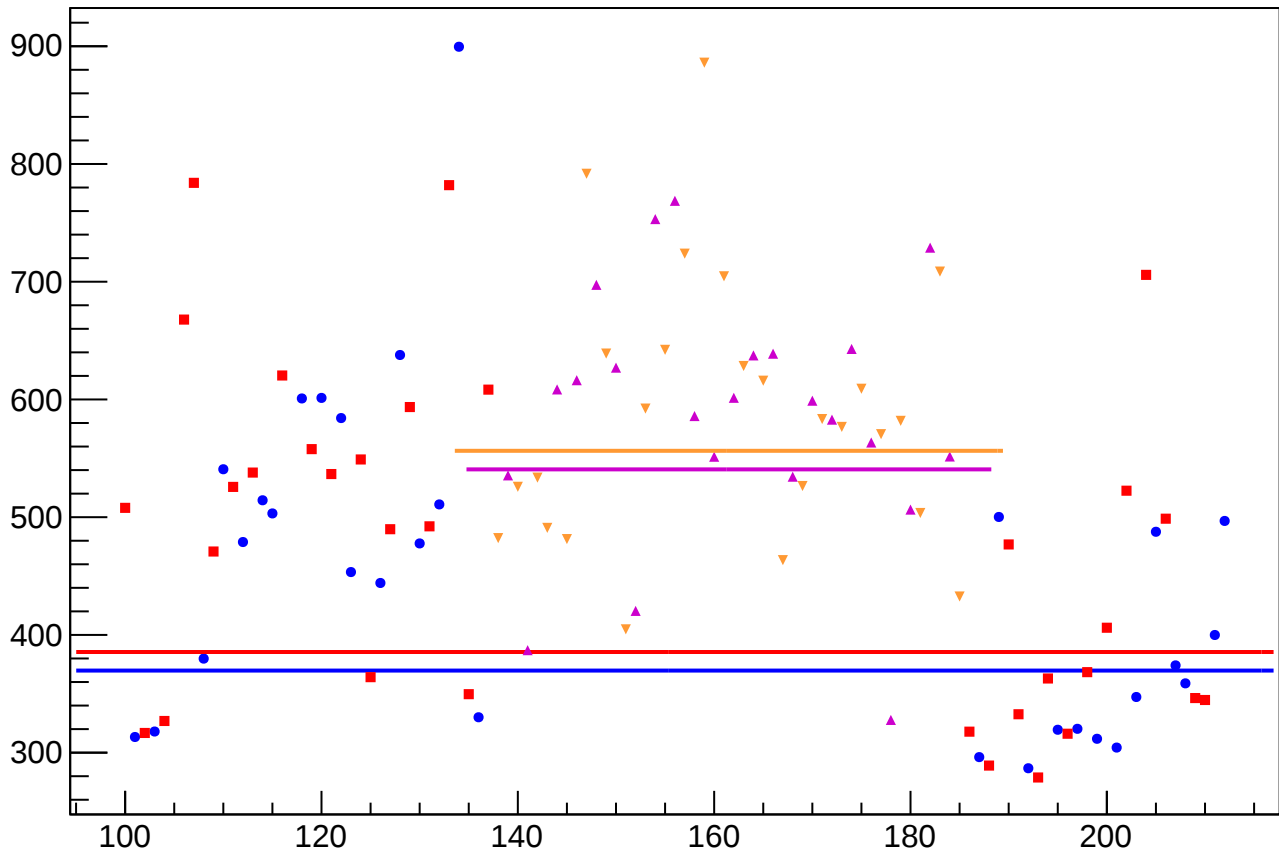
All: 254.530+/-0.023 χ^2/NDF : 7824424.2/110

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132394.203 $\pm$ 0.105	χ^2/NDF : 2677519230.7/29	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: 132625.786 $\pm$ 0.076	χ^2/NDF : 4528882202.0/5
Right Out: 132876.156 $\pm$ 0.109	χ^2/NDF : 1841230104.2/32	In: 133006.849 $\pm$ 0.084	χ^2/NDF : 2789496077.0/52
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 133425.170 $\pm$ 0.086	χ^2/NDF : 1922864908.3/5
		All: 133212.737 $\pm$ 0.060	χ^2/NDF : 47244523.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 369.723+/-0.074 χ^2/NDF : 1421643.8/29

Left Out: 556.381+/-0.098 χ^2/NDF :1002064.0/24

Right Out: 385.495+/-0.077 χ^2/NDF : 1933891.6/32

Left In: 540.607+/-0.100 χ^2/NDF :1409015.2/22

Left: 548.687+/-0.070 χ^2/NDF : 2423723.9/47

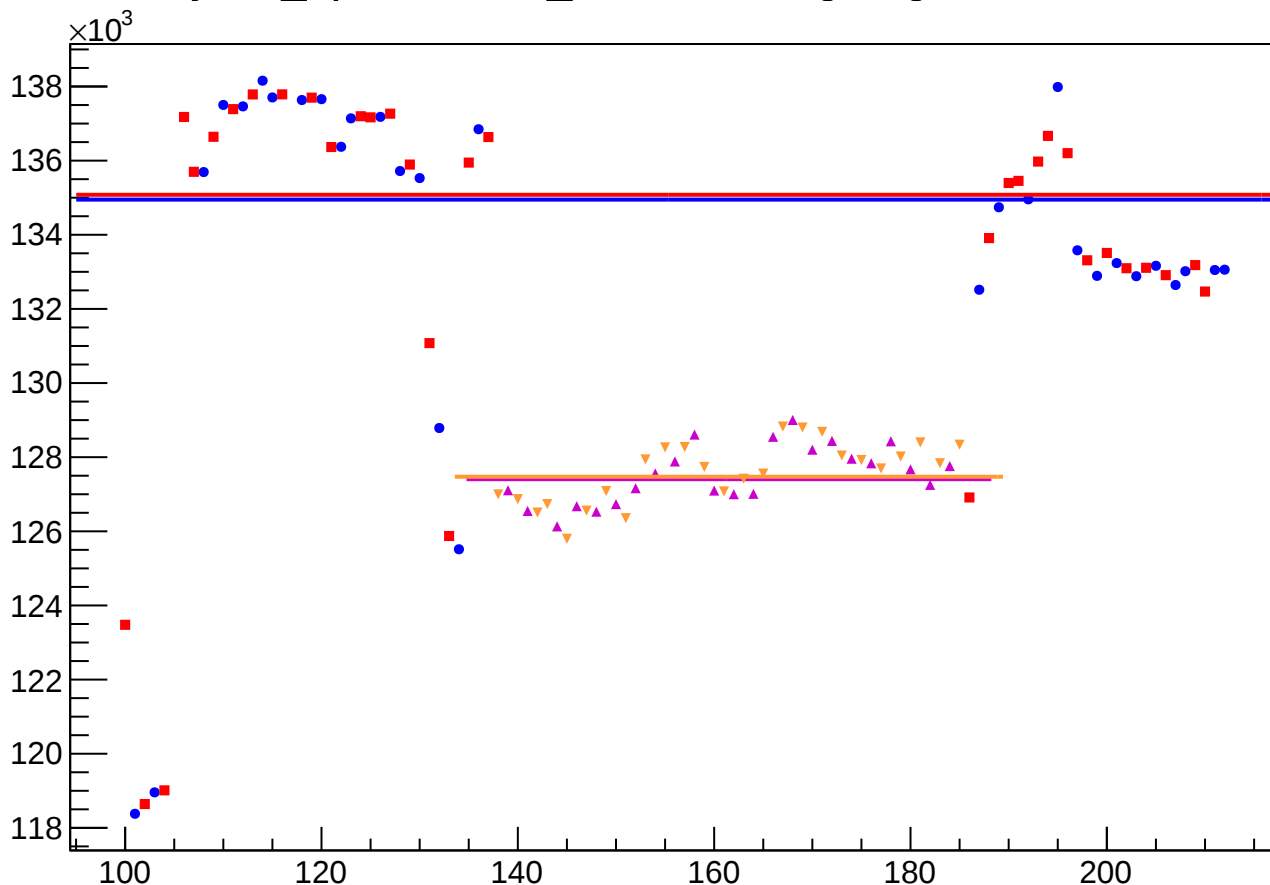
Right: 377.302+/-0.053 χ^2/NDF : 3377238.6/62

In: 430.100+/-0.060 χ^2/NDF :4704006.9/52

Out: 450.916+/-0.061 χ^2/NDF :4813524.2/57

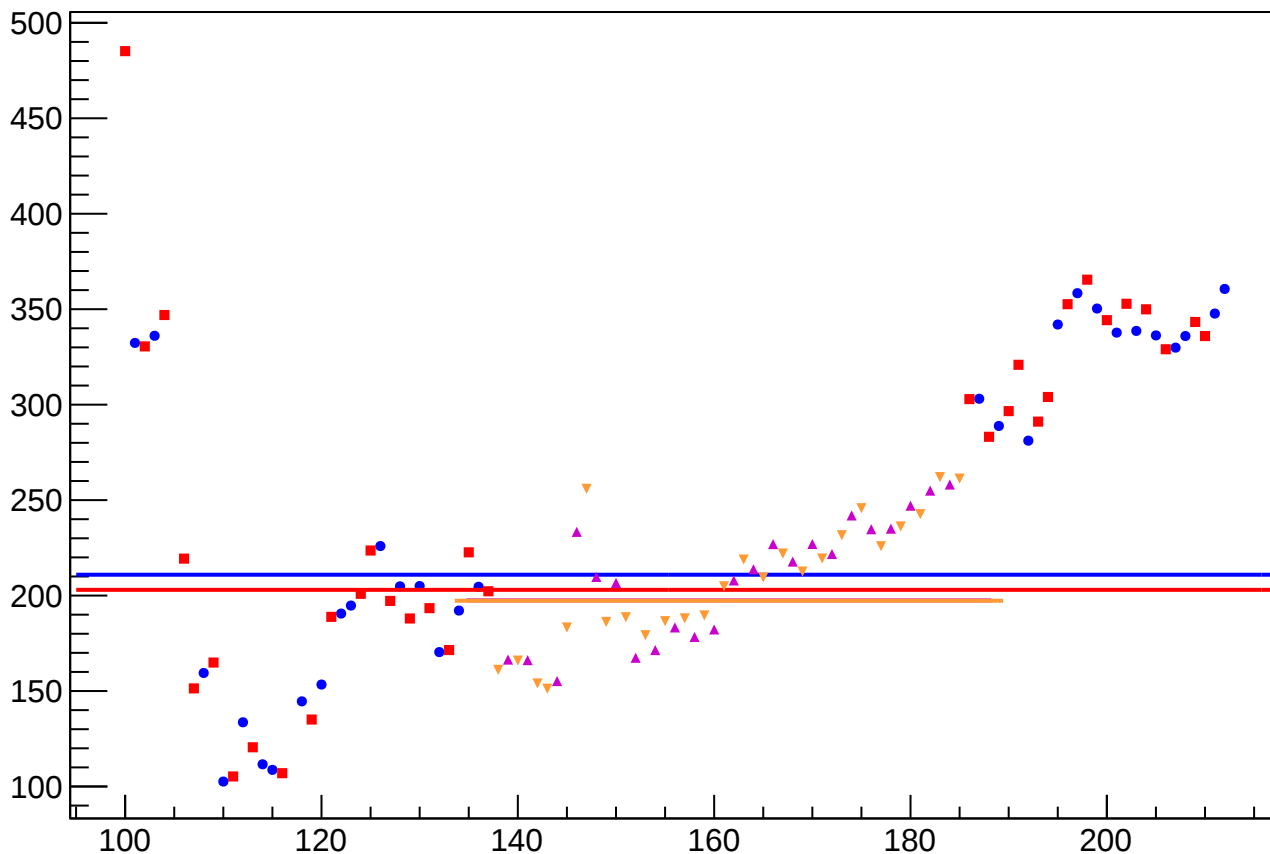
All: 440.345+/-0.043 χ^2/NDF : 9577409.3/110

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134949.051+/-0.058	χ^2/NDF : 4909084489.0/29	Left: 127440.757+/-0.034	χ^2/NDF : 574486725.7/47
Left Out: 127472.525+/-0.047	χ^2/NDF : 303609315.6/24	Right: 135017.289+/-0.040	χ^2/NDF : 10190239443.1/24
Right Out: 135078.969+/-0.055	χ^2/NDF : 5278515191.0/32	In: 130503.259+/-0.037	χ^2/NDF : 15163216202.6/5
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130664.909+/-0.036	χ^2/NDF : 16642517720.5/22
		All: 130587.274+/-0.026	χ^2/NDF : 31815584.1/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 210.925 $\pm$ 0.041 χ^2 /NDF: 4653619.8/29

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 202.999 $\pm$ 0.039 χ^2 /NDF: 5021380.9/32

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

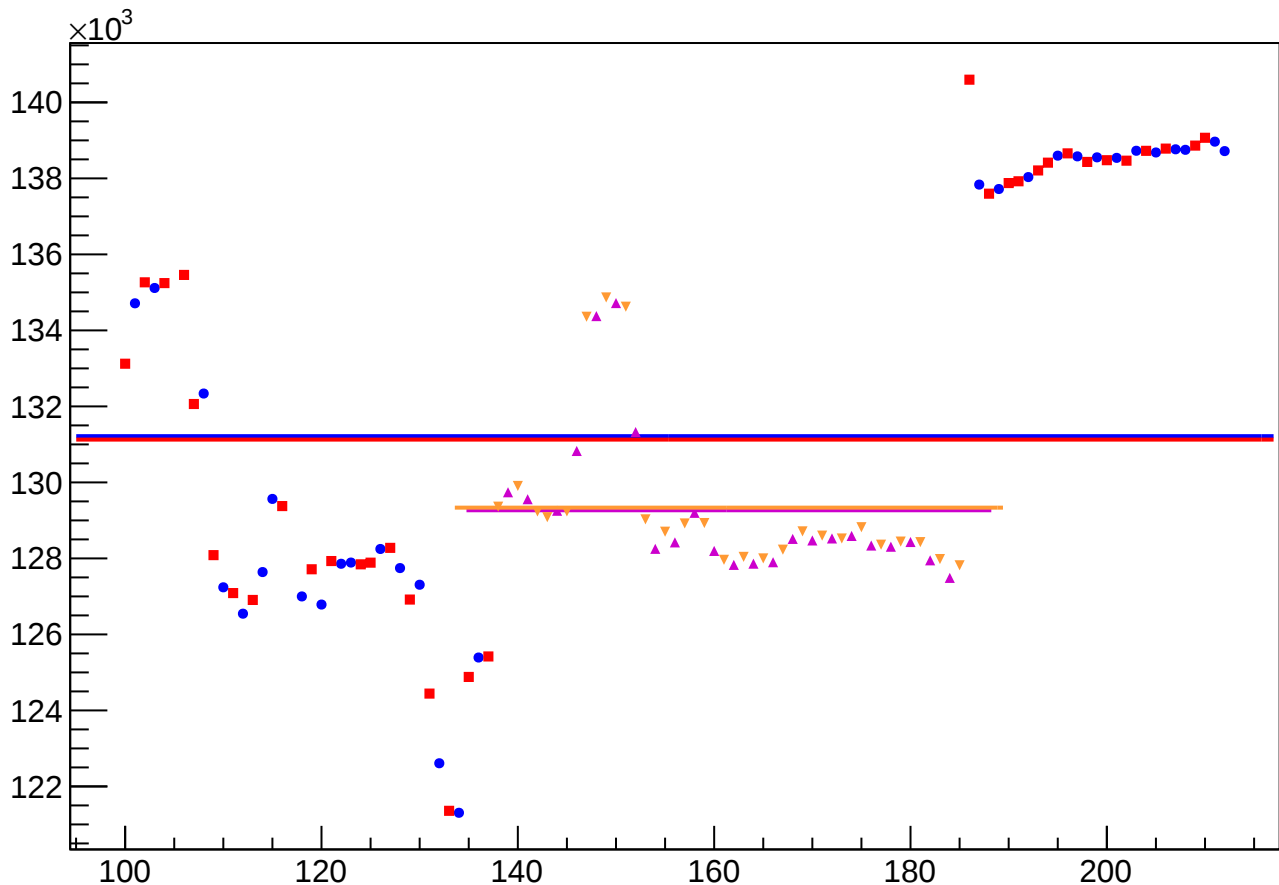
Right: 206.762 $\pm$ 0.028 χ^2 /NDF: 9694654.2/62

In: 202.995 $\pm$ 0.026 χ^2 /NDF: 5508741.7/52

Out: 199.685 $\pm$ 0.025 χ^2 /NDF: 5885867.6/57

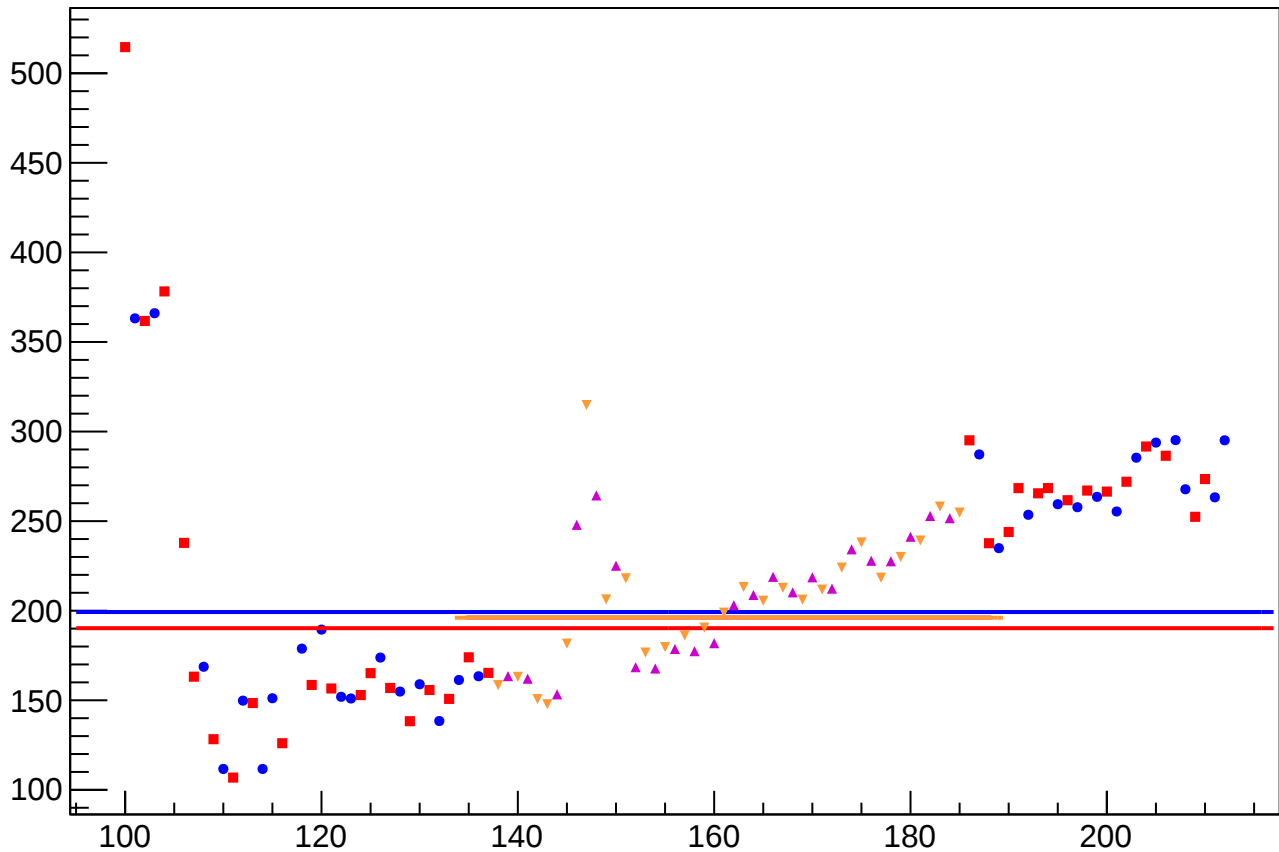
All: 201.275 $\pm$ 0.018 χ^2 /NDF: 11402864.7/114

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131216.774 $\pm$ 0.053	χ^2 /NDF: 12434465340.1/29	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: 131169.050 $\pm$ 0.037	χ^2 /NDF: 25343172922.1/24
Right Out: 131126.319 $\pm$ 0.050	χ^2 /NDF: 12907177601.1/32	In: 130146.511 $\pm$ 0.036	χ^2 /NDF: 14387860683.1/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130165.956 $\pm$ 0.034	χ^2 /NDF: 15038708027.9
		All: 130156.637 $\pm$ 0.025	χ^2 /NDF: 294267234

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 199.266+/-0.038 χ^2/NDF : 2901471.9/29

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 190.245+/-0.036 χ^2/NDF : 3408314.2/32

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

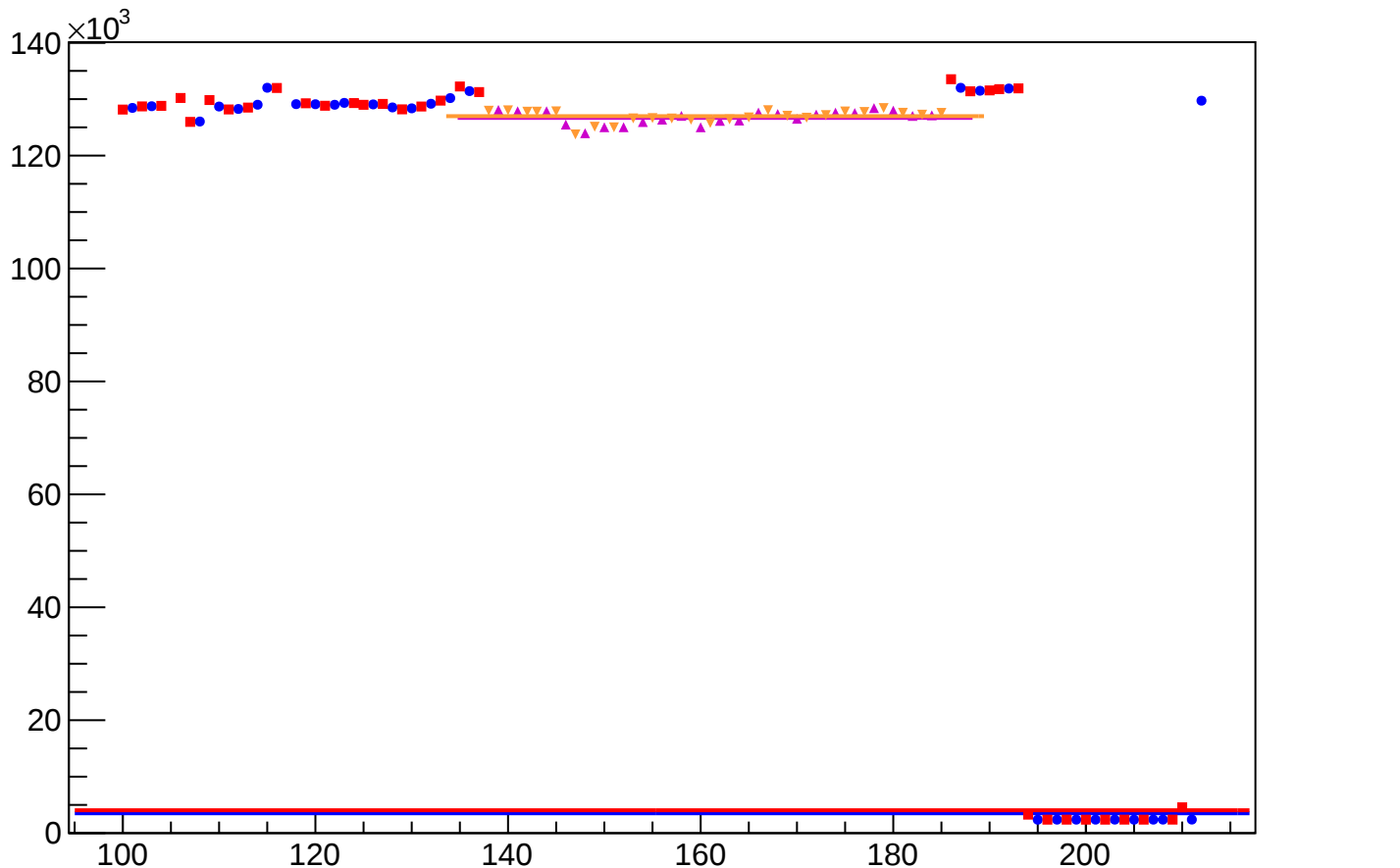
Right: 194.506+/-0.026 χ^2/NDF : 6340220.9/62

In: 197.575+/-0.025 χ^2/NDF : 3803219.8/52

Out: 193.373+/-0.024 χ^2/NDF : 4398472.3/57

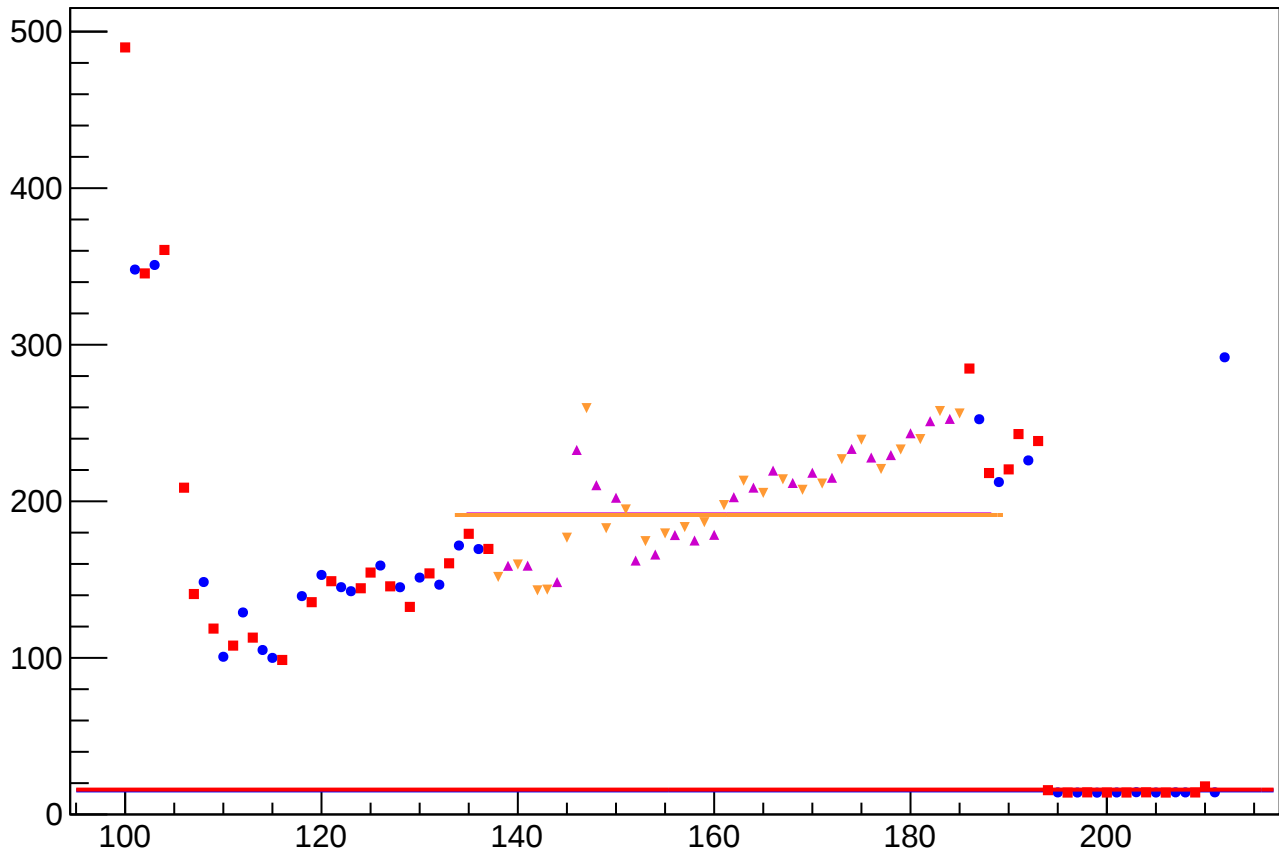
All: 195.387+/-0.017 χ^2/NDF : 8216141.3/110

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3518.871 $\pm$ 0.005	χ^2/NDF : 5027016469247.0/29	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/4
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 3760.194 $\pm$ 0.004	χ^2/NDF : 10841626363590
Right Out: 4052.662 $\pm$ 0.006	χ^2/NDF : 5810046128673.9/32	In: 5073.227 $\pm$ 0.005	χ^2/NDF : 11810145193062.6
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 6048.910 $\pm$ 0.006	χ^2/NDF : 12984294006384.
		All: 5515.214 $\pm$ 0.004	χ^2/NDF : 24809912678

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.337+/-0.004 χ^2/NDF : 14627946.6/29

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 15.876+/-0.004 χ^2/NDF : 15578157.9/32

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

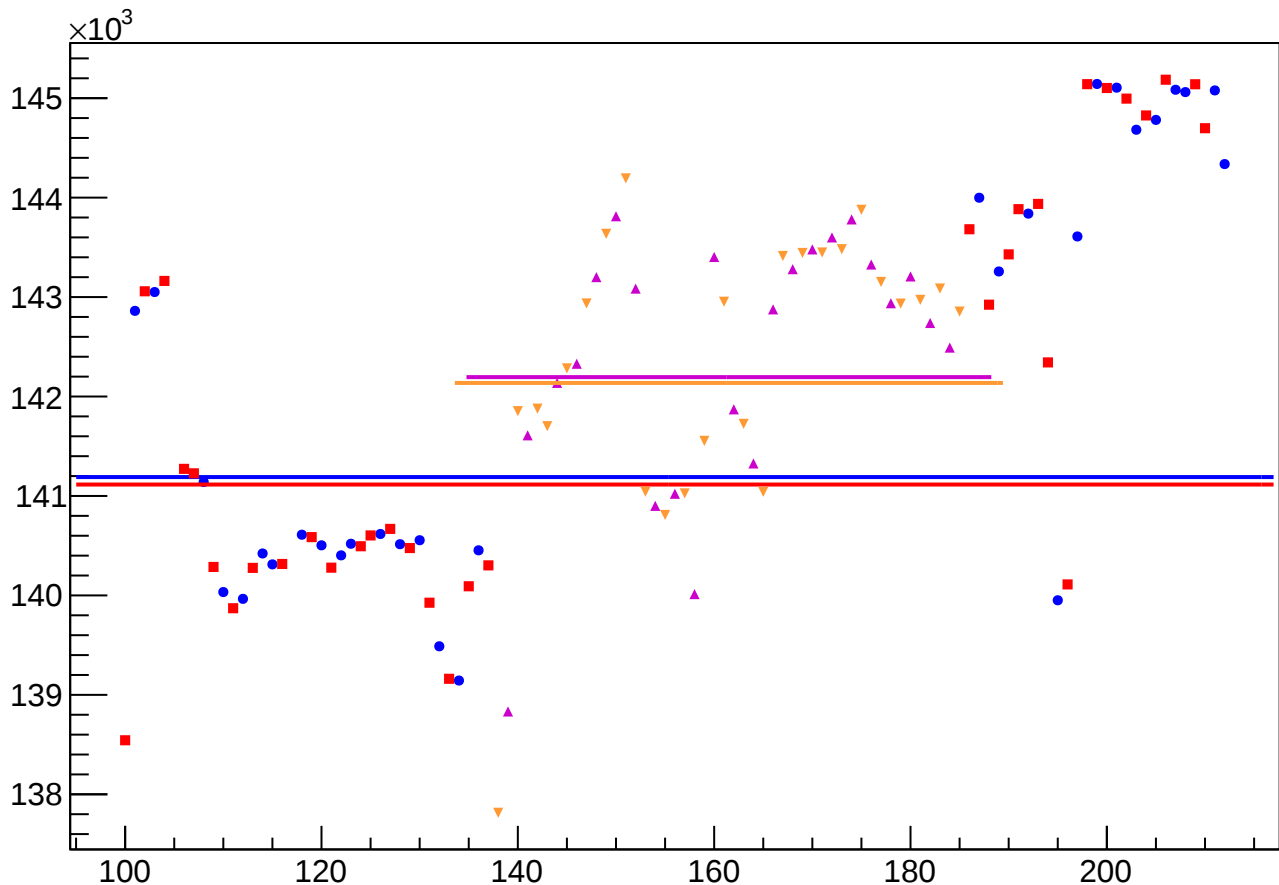
Right: 15.581+/-0.003 χ^2/NDF : 30215417.9/62

In: 17.562+/-0.004 χ^2/NDF : 43301101.2/52

Out: 18.724+/-0.004 χ^2/NDF : 45775931.3/57

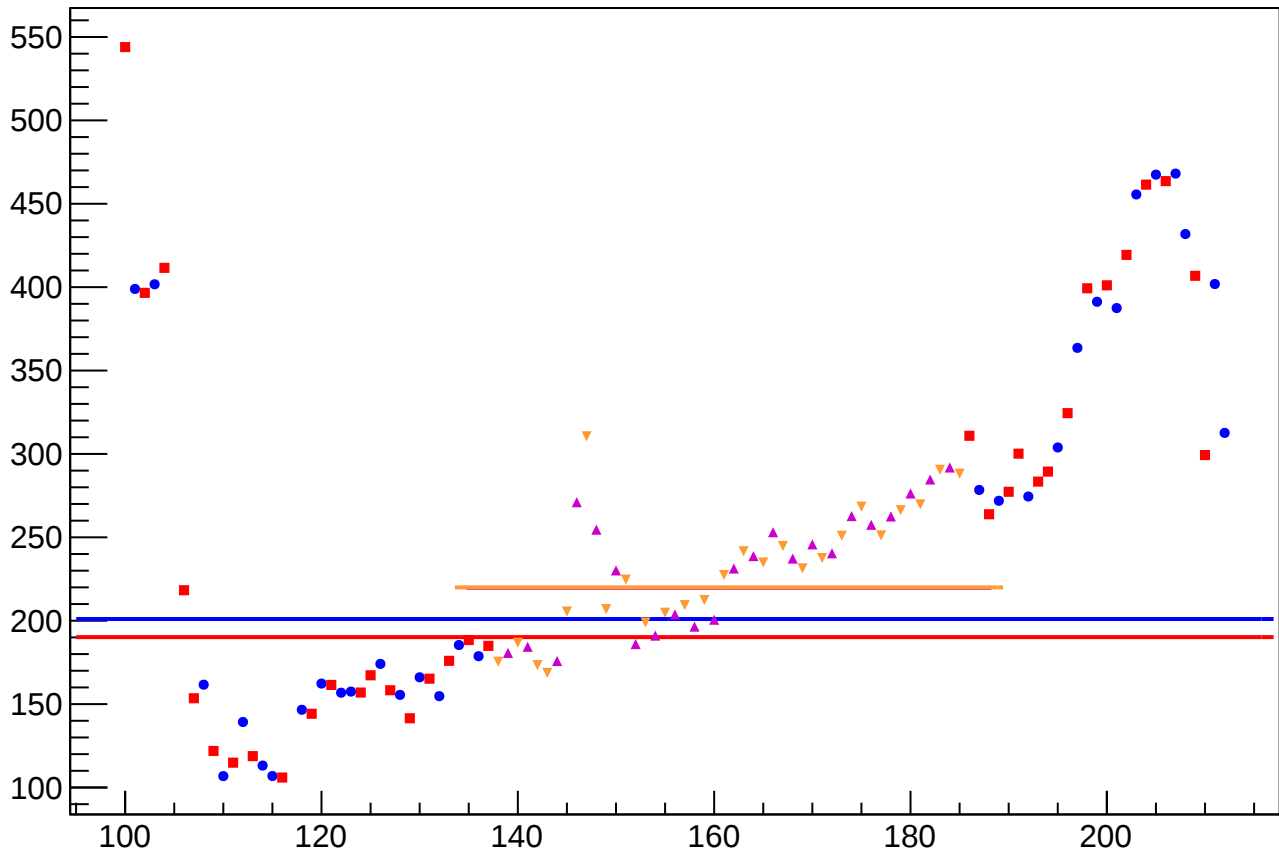
All: 18.089+/-0.003 χ^2/NDF : 89120911.4/110

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141190.015 $\pm$ 0.057	χ^2 /NDF: 918849713.3/29	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 141149.767 $\pm$ 0.039	χ^2 /NDF: 1868466260.6/4
Right Out: 141114.937 $\pm$ 0.053	χ^2 /NDF: 948672013.2/32	In: 141717.061 $\pm$ 0.039	χ^2 /NDF: 1728452629.9/52
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141628.590 $\pm$ 0.037	χ^2 /NDF: 1953797332.8/5
		All: 141670.614 $\pm$ 0.027	χ^2 /NDF: 368495083.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 201.036+/-0.040 χ^2/NDF : 6014978.6/29

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 190.163+/-0.037 χ^2/NDF : 6184042.7/32

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

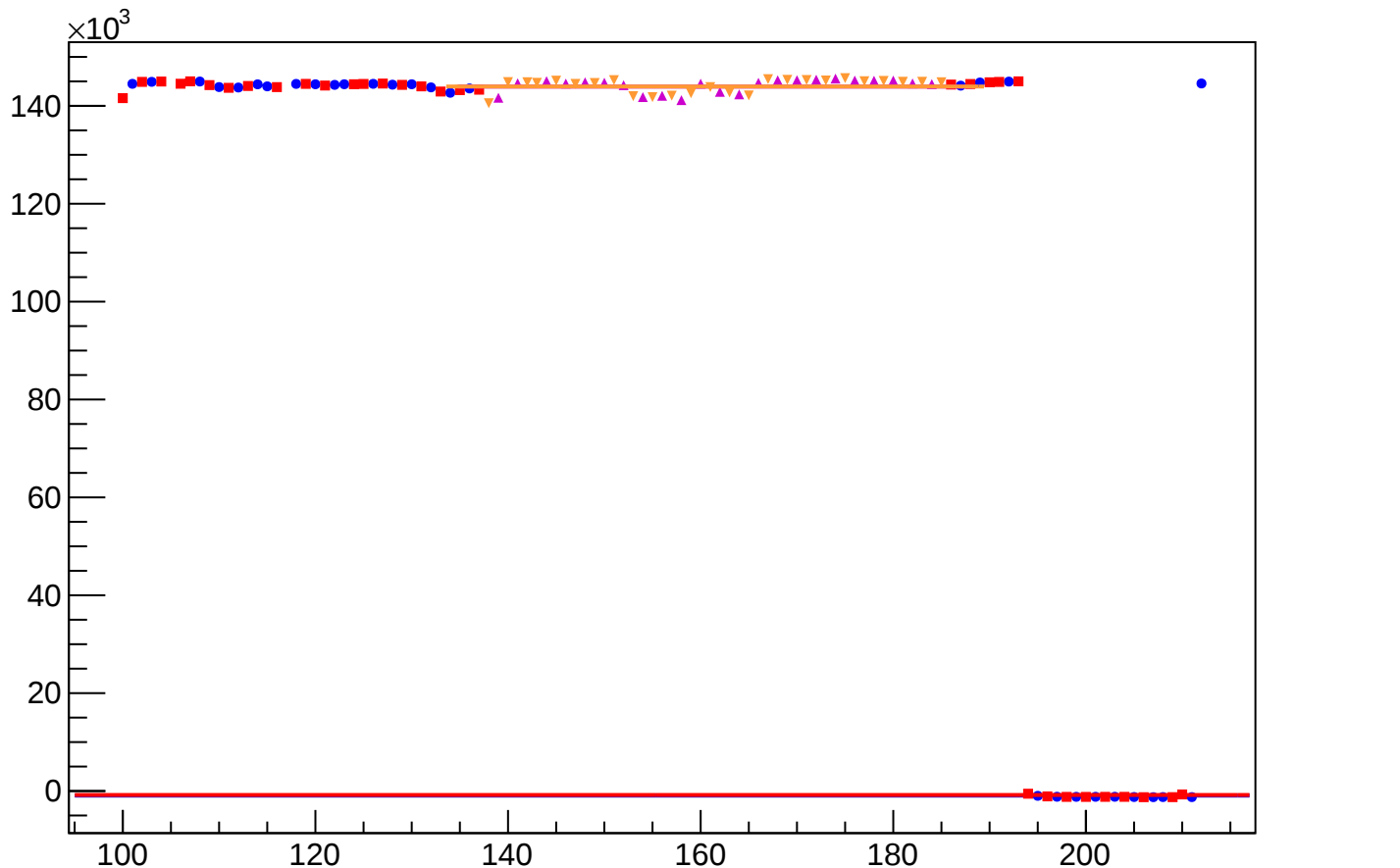
Right: 195.208+/-0.027 χ^2/NDF : 12238641.7/62

In: 210.816+/-0.028 χ^2/NDF : 6941736.7/52

Out: 205.149+/-0.026 χ^2/NDF : 7373328.8/57

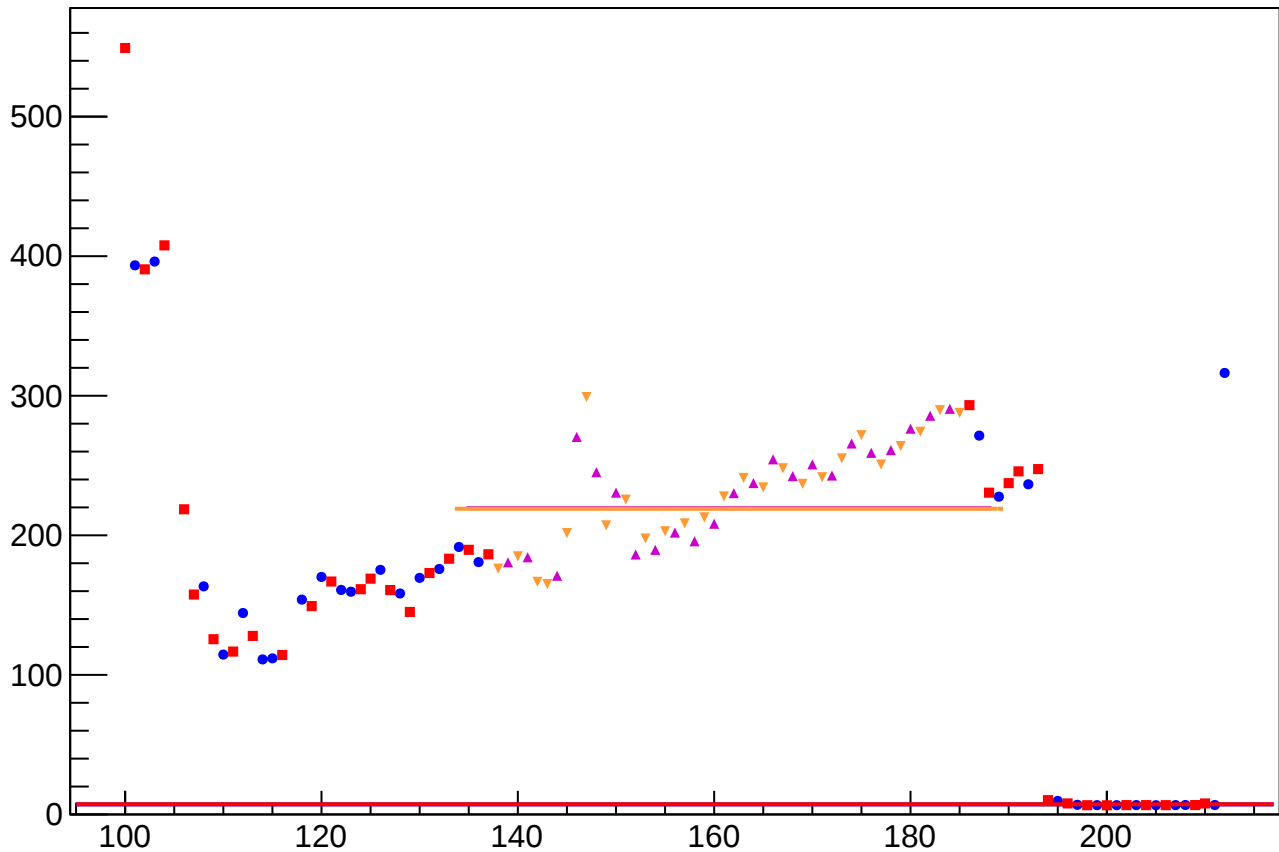
All: 207.841+/-0.019 χ^2/NDF : 14337228.6/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -933.201 ± 0.003 $\chi^2/\text{NDF}: 5455631387938.1/29$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -808.306 ± 0.003 $\chi^2/\text{NDF}: 6401813486056.7/32$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/29$
 Right: -876.576 ± 0.002 $\chi^2/\text{NDF}: 11858462730801.1/29$
 In: -586.798 ± 0.003 $\chi^2/\text{NDF}: 12679004089839.6/32$
 Out: -363.534 ± 0.003 $\chi^2/\text{NDF}: 14088463294863.1/32$
 All: -485.537 ± 0.002 $\chi^2/\text{NDF}: 26770728971.1/32$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.208 $\pm$ 0.002 χ^2 /NDF: 16340396.6/29

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.302 $\pm$ 0.002 χ^2 /NDF: 17461095.2/32

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

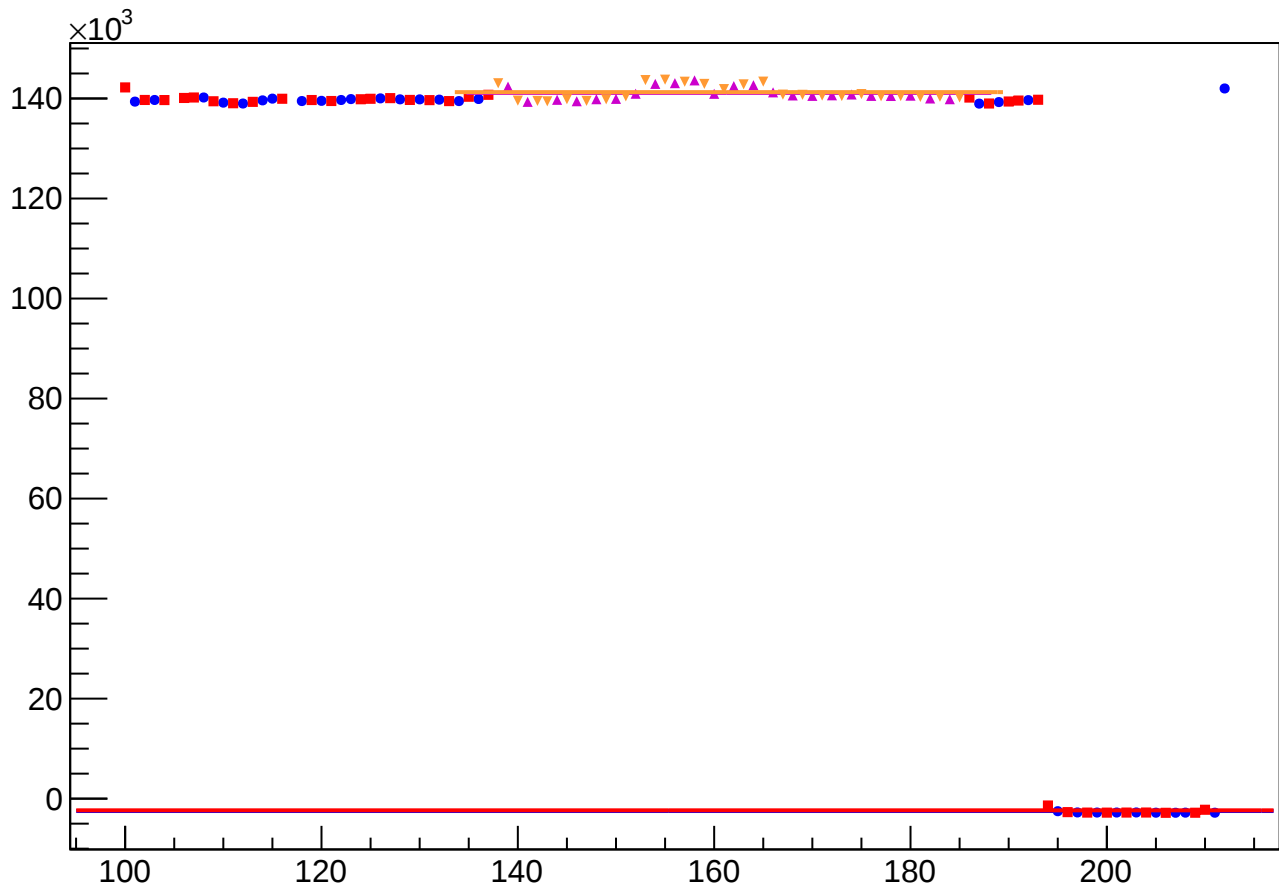
Right: 7.251 $\pm$ 0.001 χ^2 /NDF: 33802661.3/62

In: 7.715 $\pm$ 0.002 χ^2 /NDF:48187887.6/52

Out: 7.953 $\pm$ 0.002 χ^2 /NDF:51285155.6/57

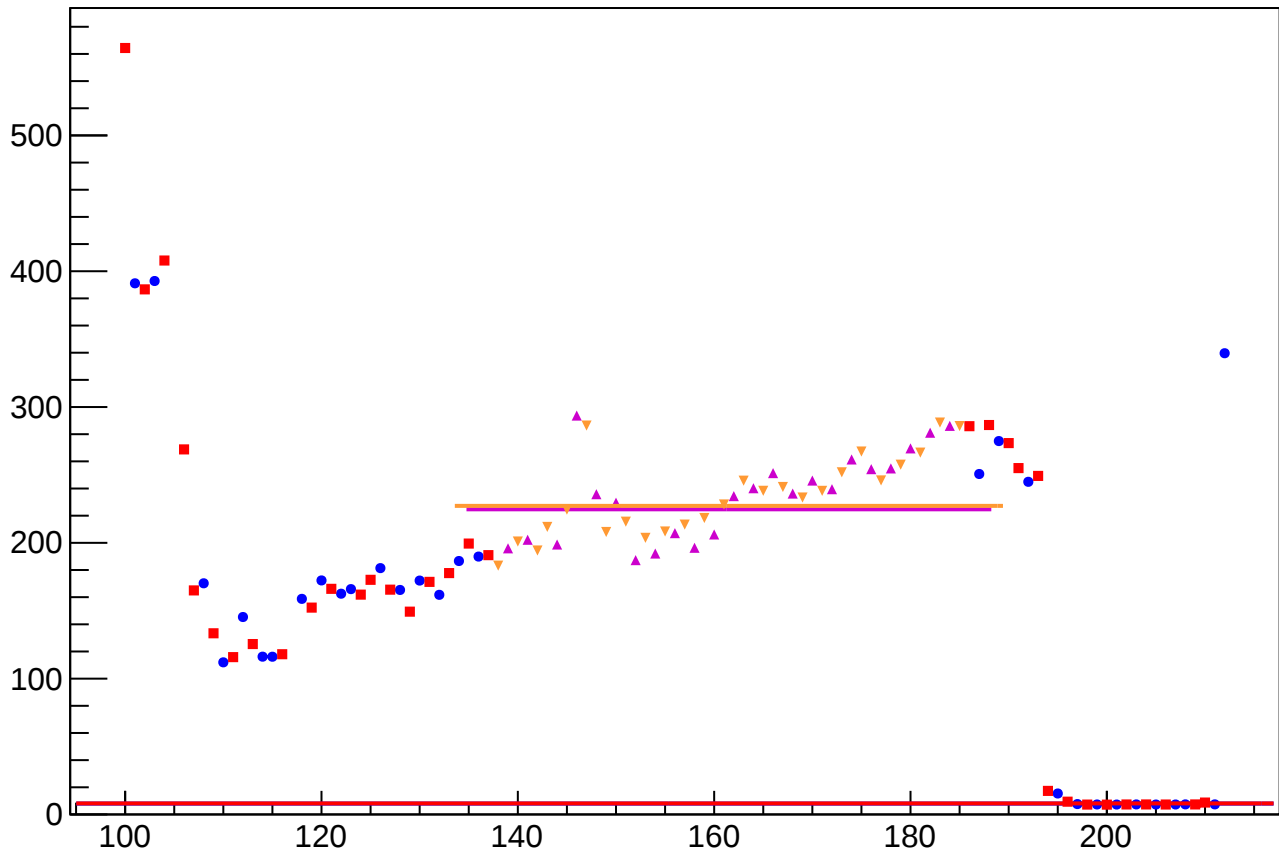
All: 7.823 $\pm$ 0.001 χ^2 /NDF: 99480444.5/110

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2473.698 ± 0.003 $\chi^2/\text{NDF}: 5001125564744.8/29$ Left: 141195.809 ± 0.038 $\chi^2/\text{NDF}: 1365080862.2/4$
 Left Out: 141268.791 ± 0.054 $\chi^2/\text{NDF}: 795989244.2/24$ Right: -2411.610 ± 0.002 $\chi^2/\text{NDF}: 1079257470385$
 Right Out: -2336.710 ± 0.003 $\chi^2/\text{NDF}: 5790471620910.5/32$ In: -2060.582 ± 0.003 $\chi^2/\text{NDF}: 11819341652356.5$
 Left In: 141119.484 ± 0.055 $\chi^2/\text{NDF}: 565312728.1/22$ Out: -1815.872 ± 0.003 $\chi^2/\text{NDF}: 12917042803227$
 All: -1949.625 ± 0.002 $\chi^2/\text{NDF}: 2473951407$

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.000 ± 0.002 $\chi^2/\text{NDF}: 16497044.5/29$

Left Out: 227.224 ± 0.038 $\chi^2/\text{NDF}: 484955.3/24$

Right Out: 8.122 ± 0.002 $\chi^2/\text{NDF}: 17502448.5/32$

Left In: 224.686 ± 0.039 $\chi^2/\text{NDF}: 578366.0/22$

Left: 225.984 ± 0.027 $\chi^2/\text{NDF}: 1065504.5/47$

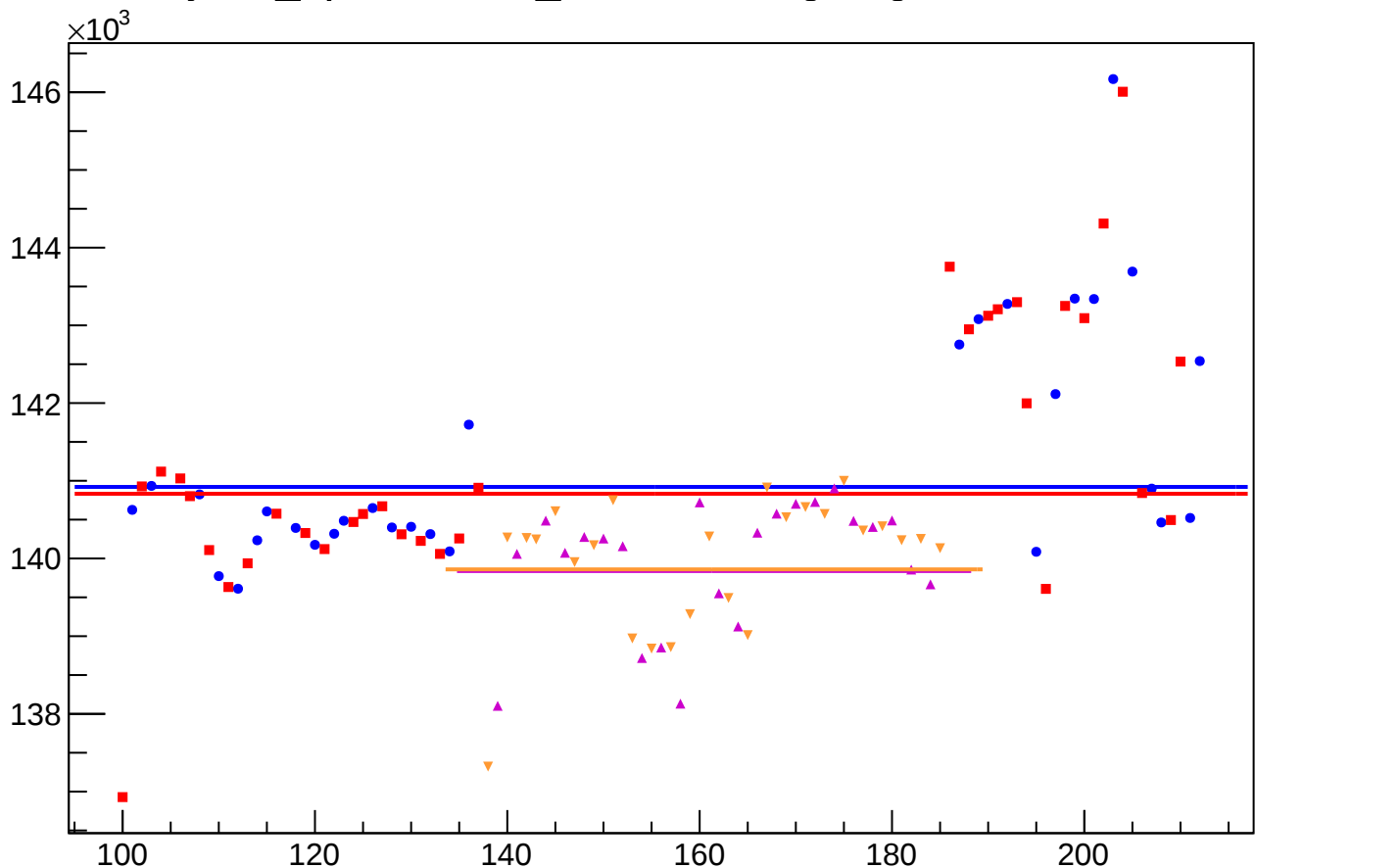
Right: 8.055 ± 0.002 $\chi^2/\text{NDF}: 34001066.2/62$

In: 8.623 ± 0.002 $\chi^2/\text{NDF}: 48125432.7/52$

Out: 8.917 ± 0.002 $\chi^2/\text{NDF}: 51162397.1/57$

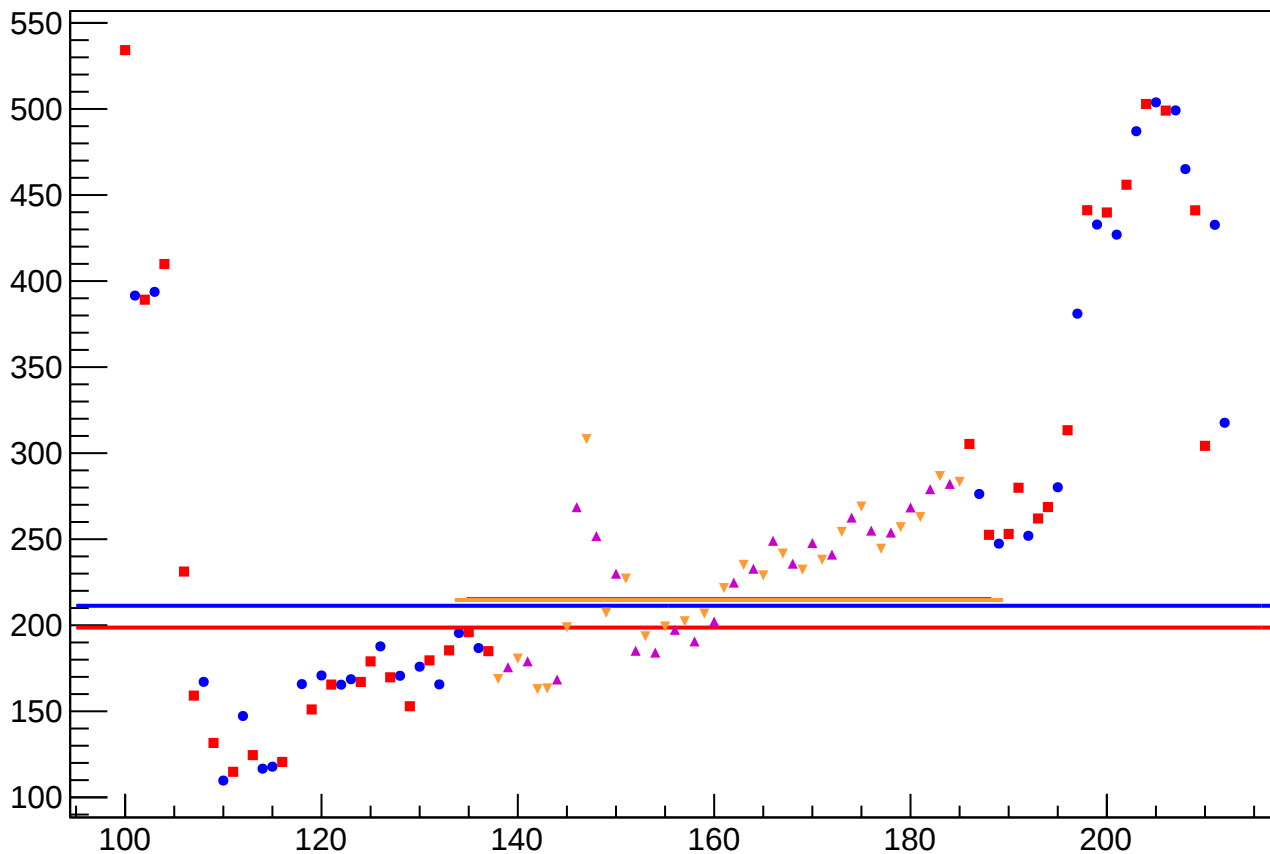
All: 8.756 ± 0.002 $\chi^2/\text{NDF}: 99296872.5/110$

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140920.698 $\pm$ 0.059 χ^2 /NDF: 448955266.5/29
 Left Out: 139859.696 $\pm$ 0.051 χ^2 /NDF: 330118281.5/24
 Right Out: 140832.552 $\pm$ 0.055 χ^2 /NDF: 525830057.4/32
 Left In: 139838.724 $\pm$ 0.053 χ^2 /NDF: 279573689.3/22
 Left: 139849.553 $\pm$ 0.037 χ^2 /NDF: 609773442.9/41
 Right: 140873.081 $\pm$ 0.040 χ^2 /NDF: 975981189.5/6
 In: 140317.684 $\pm$ 0.039 χ^2 /NDF: 914424875.6/52
 Out: 140313.418 $\pm$ 0.037 χ^2 /NDF: 1025011073.7/5
 All: 140315.435 $\pm$ 0.027 χ^2 /NDF: 193944212

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 211.317 $\pm$ 0.042 χ^2 /NDF: 5746438.1/29

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 198.655 $\pm$ 0.039 χ^2 /NDF: 5823607.1/32

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

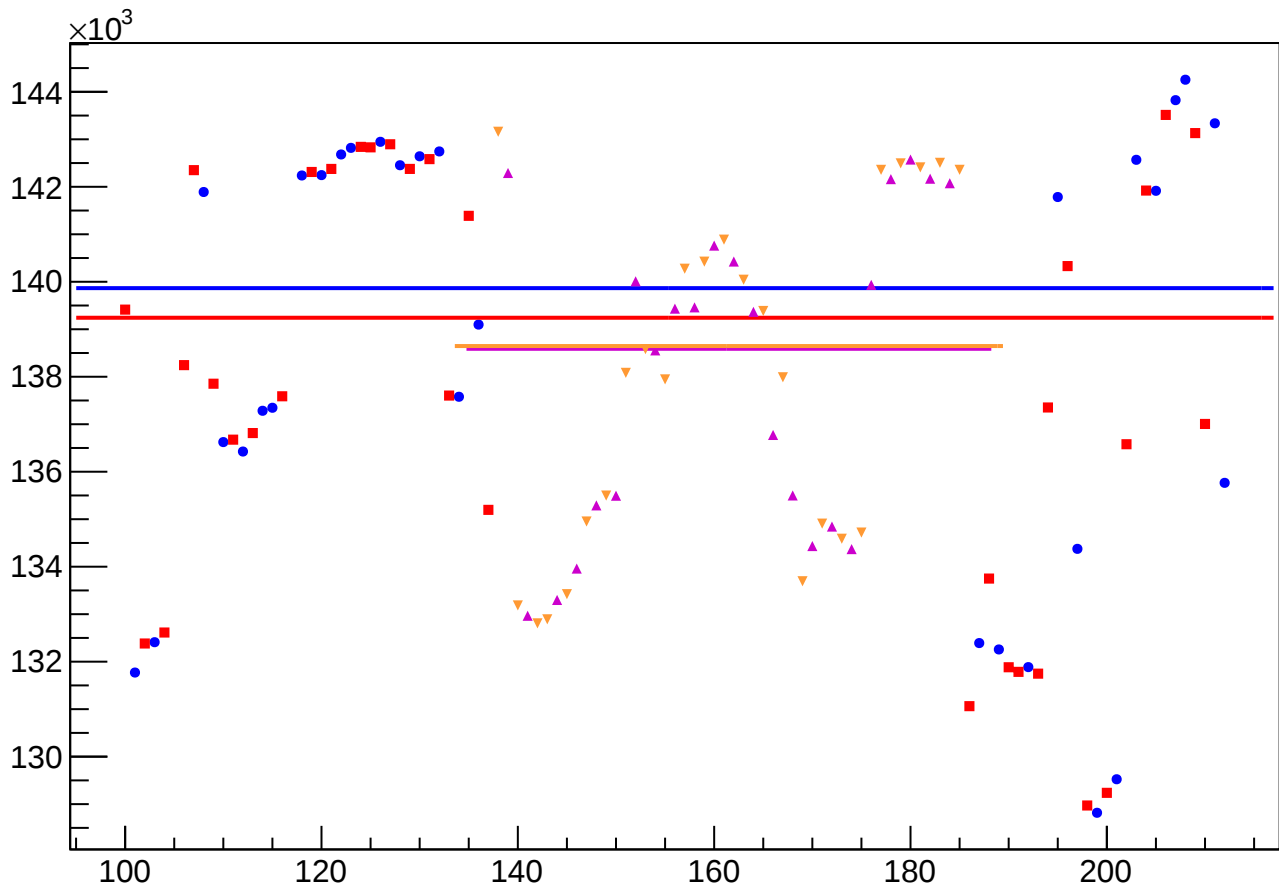
Right: 204.477 $\pm$ 0.028 χ^2 /NDF: 11619396.9/62

In: 213.493 $\pm$ 0.028 χ^2 /NDF: 6633225.0/52

Out: 207.213 $\pm$ 0.026 χ^2 /NDF: 6896597.0/57

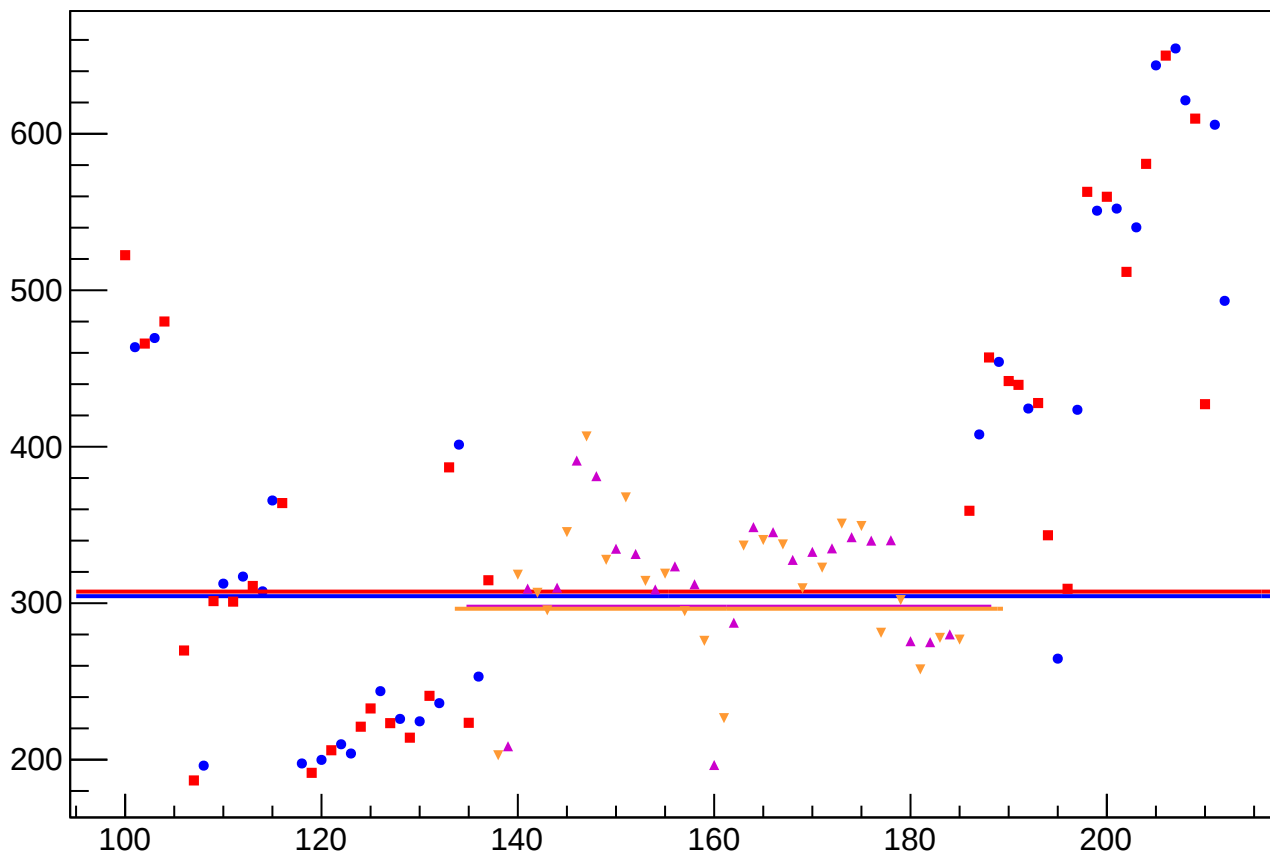
All: 210.182 $\pm$ 0.019 χ^2 /NDF: 13556589.0/11

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139865.953 $\pm$ 0.084	χ^2 /NDF: 2332416655.3/29	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 139548.424 $\pm$ 0.059	χ^2 /NDF: 4795794626.3/
Right Out: 139242.507 $\pm$ 0.083	χ^2 /NDF: 2435380043.8/32	In: 139143.296 $\pm$ 0.055	χ^2 /NDF: 4411023464.8/52
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138899.285 $\pm$ 0.054	χ^2 /NDF: 5014053954.7/5
		All: 139017.605 $\pm$ 0.039	χ^2 /NDF: 943506729

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 304.491+/-0.059 χ^2/NDF : 4724358.0/29

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 307.423+/-0.058 χ^2/NDF : 4260043.9/32

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

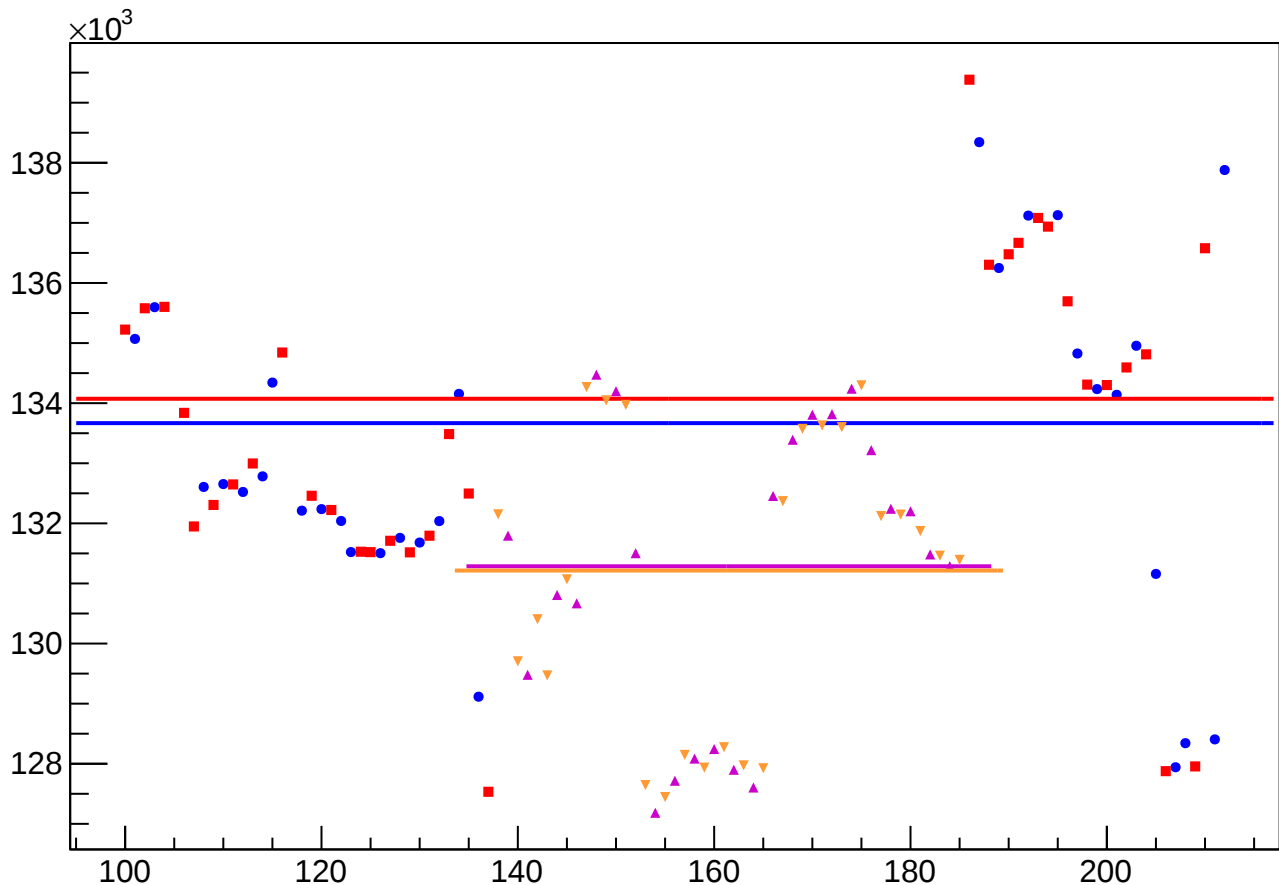
Right: 305.985+/-0.042 χ^2/NDF : 8985640.3/62

In: 300.691+/-0.039 χ^2/NDF : 5793068.5/52

Out: 301.114+/-0.038 χ^2/NDF : 5173924.5/57

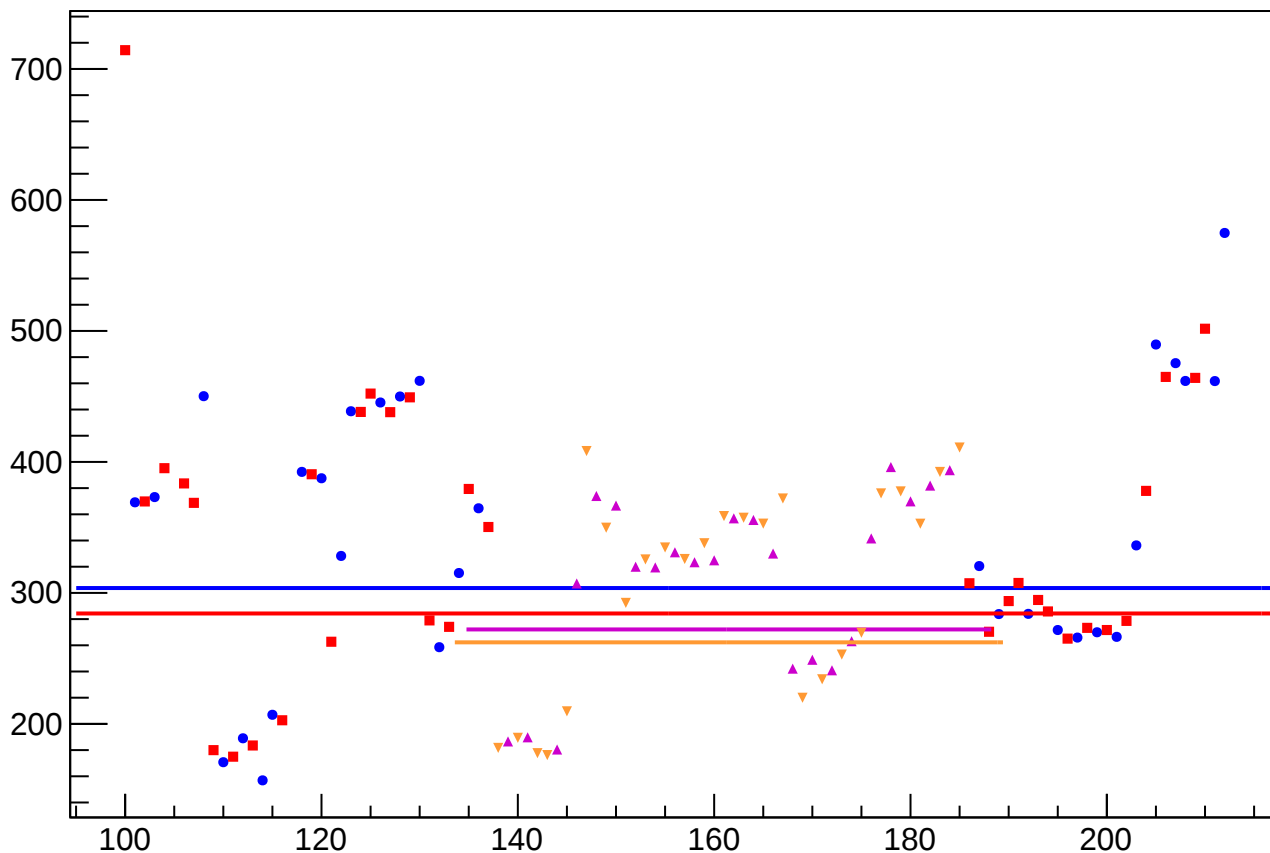
All: 300.909+/-0.027 χ^2/NDF : 10967053.1/111

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133667.831 $\pm$ 0.080	χ^2 /NDF: 974661005.0/29	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133887.533 $\pm$ 0.054	χ^2 /NDF: 1981810784.3/5
Right Out: 134073.216 $\pm$ 0.074	χ^2 /NDF: 993388067.4/32	In: 132284.064 $\pm$ 0.052	χ^2 /NDF: 2540239583.2/52
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132445.757 $\pm$ 0.049	χ^2 /NDF: 3017241497.1/5
		All: 132370.609 $\pm$ 0.036	χ^2 /NDF: 556264003.1/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 303.720 $\pm$ 0.057 χ^2 /NDF: 2784023.9/29

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 284.299 $\pm$ 0.052 χ^2 /NDF: 2567907.8/32

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

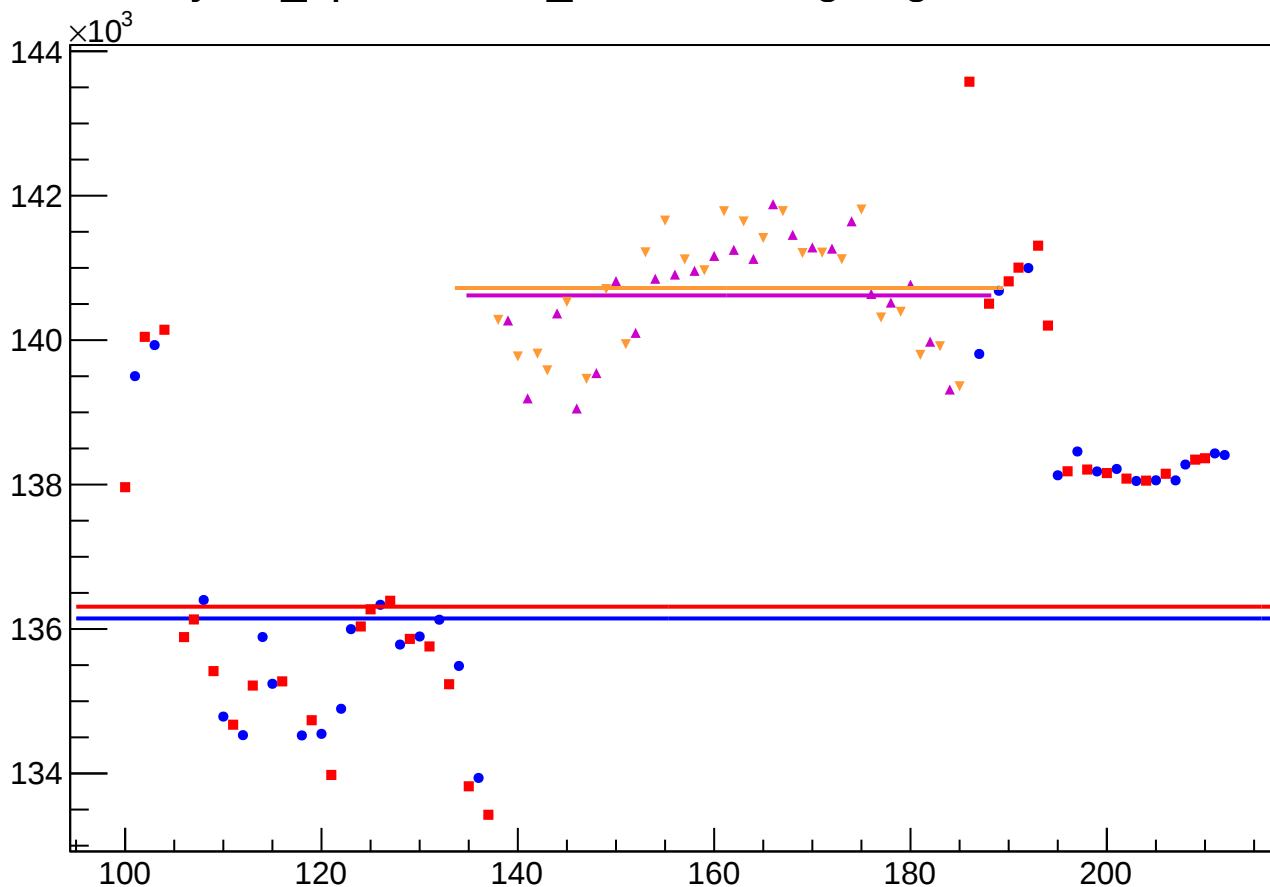
Right: 293.194 $\pm$ 0.038 χ^2 /NDF: 5415101.9/62

In: 285.361 $\pm$ 0.037 χ^2 /NDF: 5185257.1/52

Out: 271.750 $\pm$ 0.034 χ^2 /NDF: 5487203.2/57

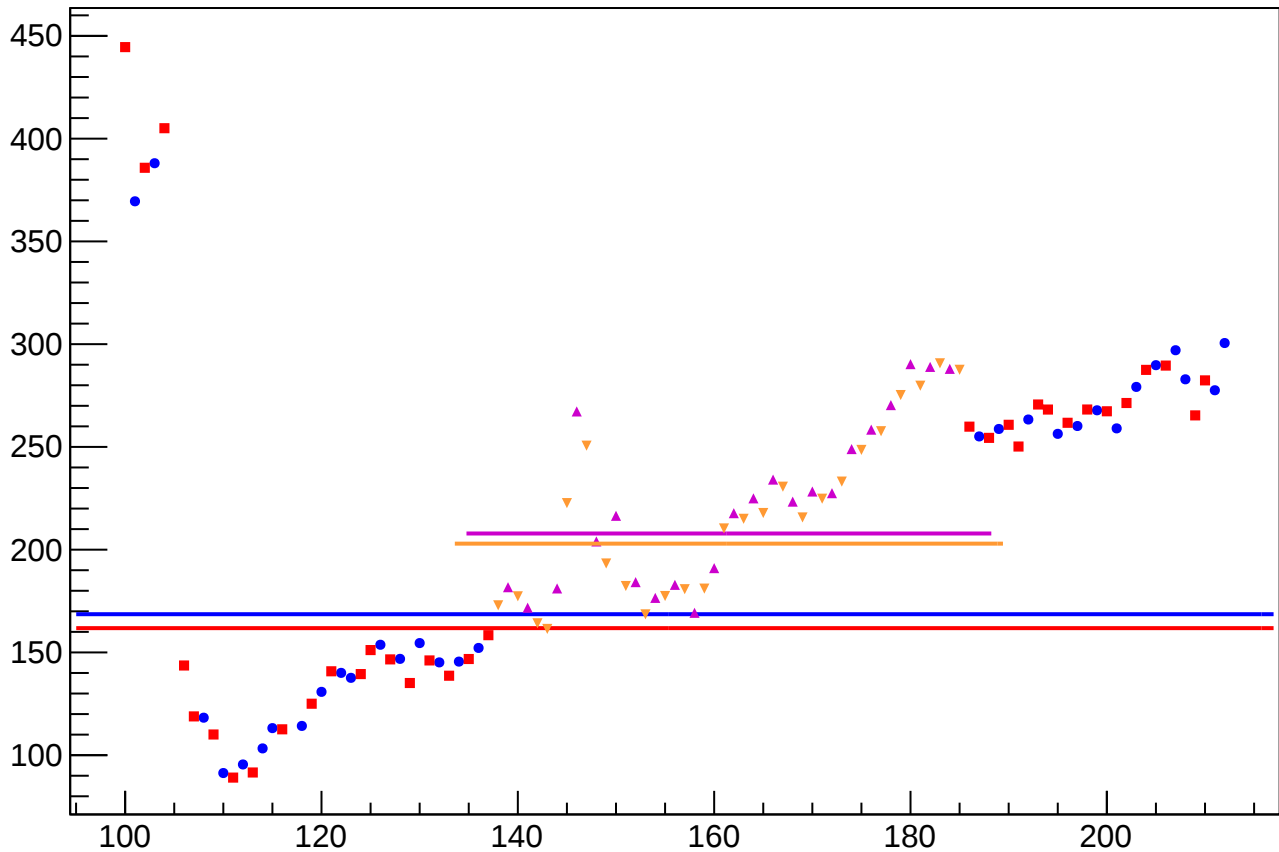
All: 278.076 $\pm$ 0.025 χ^2 /NDF: 10745576.0/111

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136146.196 $\pm$ 0.047 χ^2 /NDF: 1585842052.4/29
 Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24
 Right Out: 136309.240 $\pm$ 0.044 χ^2 /NDF: 2176744206.2/32
 Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22
 Left: 140673.196 $\pm$ 0.035 χ^2 /NDF: 449761004.9/47
 Right: 136231.914 $\pm$ 0.032 χ^2 /NDF: 3769031312.0/50
 In: 138176.089 $\pm$ 0.034 χ^2 /NDF: 5973215896.2/52
 Out: 138316.905 $\pm$ 0.033 χ^2 /NDF: 6952821405.8/55
 All: 138250.196 $\pm$ 0.024 χ^2 /NDF: 129348483.0/108

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 168.599+/-0.033 χ^2/NDF : 5085844.6/29

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 161.817+/-0.031 χ^2/NDF : 5436132.0/32

Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

Left: 205.270+/-0.025 χ^2/NDF : 2011329.4/47

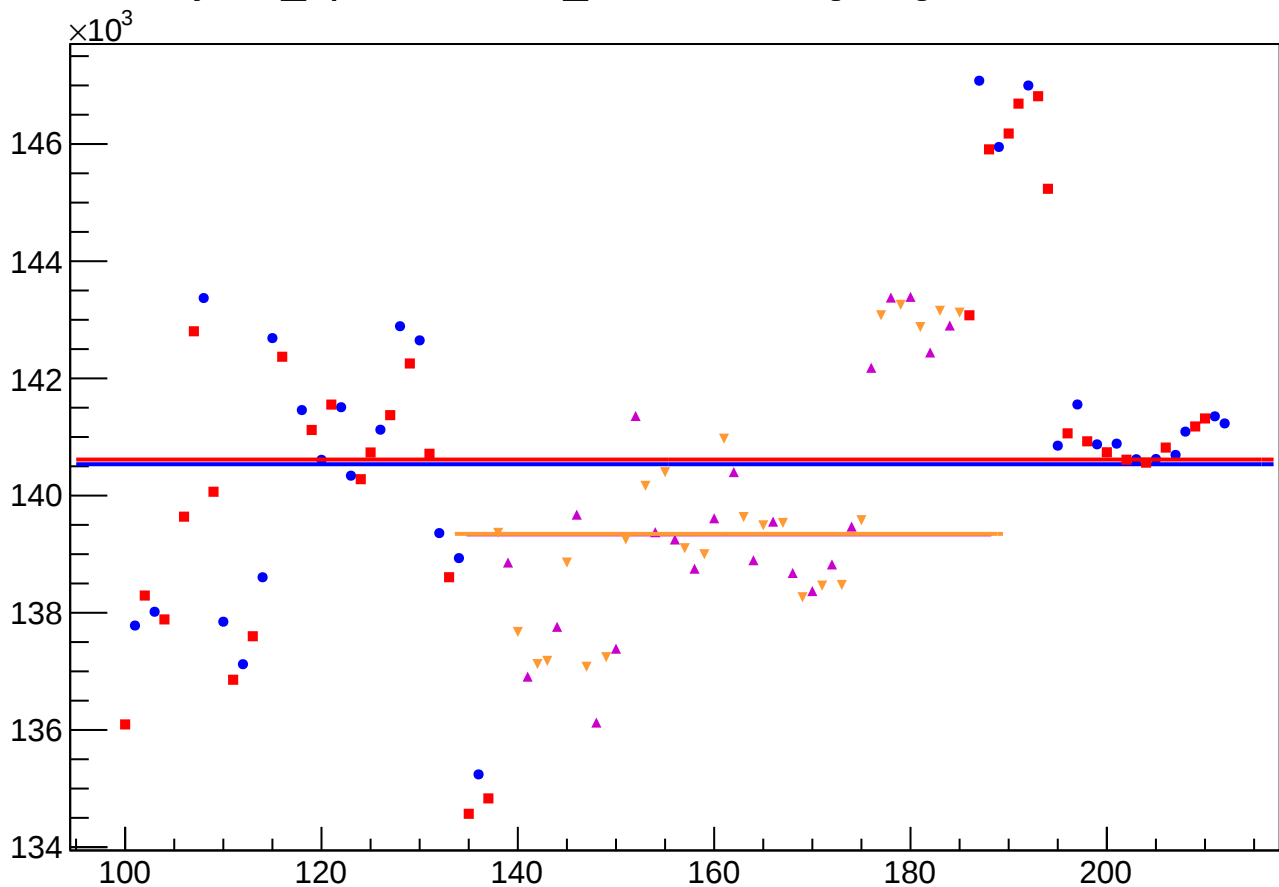
Right: 165.034+/-0.023 χ^2/NDF : 10544279.3/62

In: 186.422+/-0.024 χ^2/NDF :6680624.0/52

Out: 180.525+/-0.023 χ^2/NDF :7274863.6/57

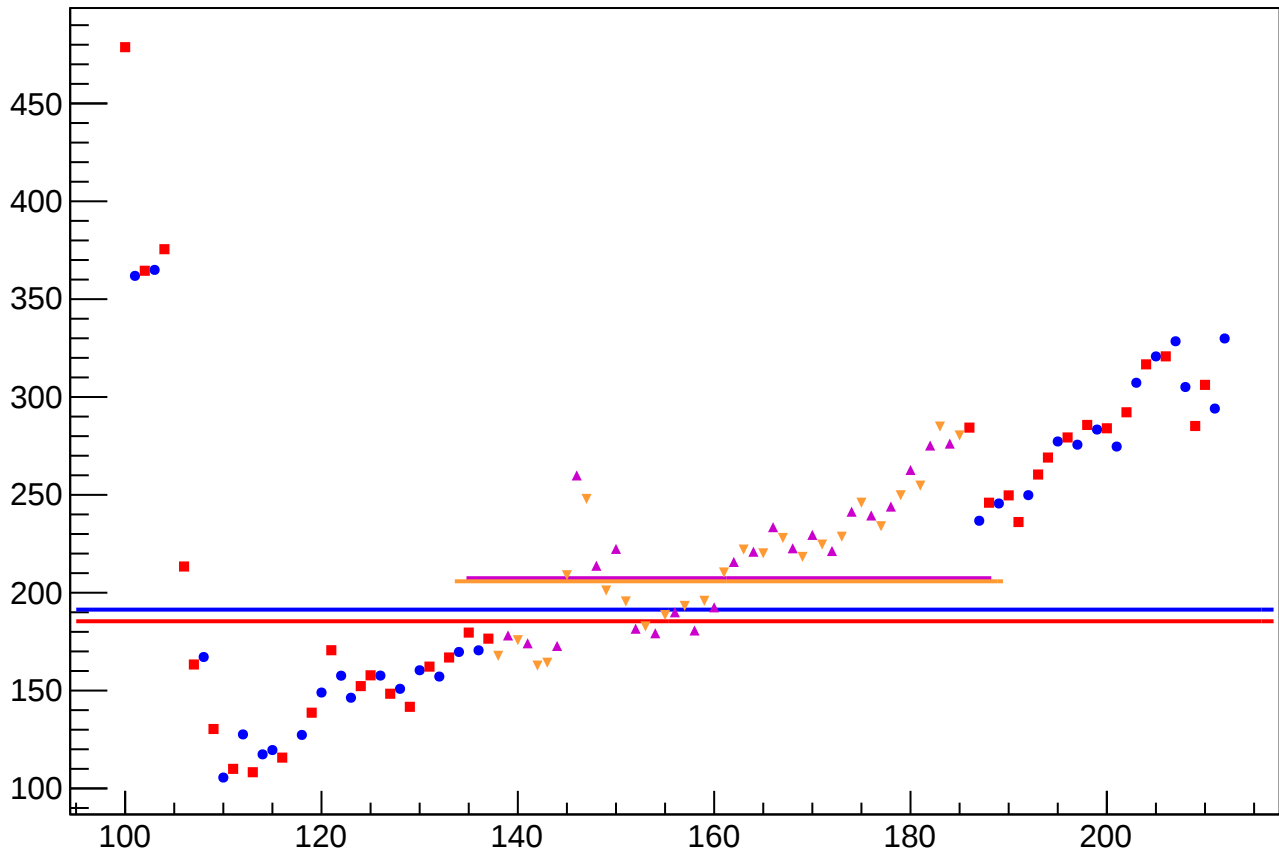
All: 183.319+/-0.017 χ^2/NDF : 13986395.2/11

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140535.016 $\pm$ 0.052 χ^2 /NDF: 2783108925.9/29
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140615.121 $\pm$ 0.050 χ^2 /NDF: 3218394680.9/32
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/4
 Right: 140576.851 $\pm$ 0.036 χ^2 /NDF: 6002748401.0/4
 In: 139924.235 $\pm$ 0.036 χ^2 /NDF: 4347707257.8/52
 Out: 139972.356 $\pm$ 0.035 χ^2 /NDF: 4820641506.2/5
 All: 139949.282 $\pm$ 0.025 χ^2 /NDF: 916926276

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 191.360 $\pm$ 0.037 χ^2 /NDF: 4063448.6/29

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 185.416 $\pm$ 0.035 χ^2 /NDF: 4282628.9/32

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

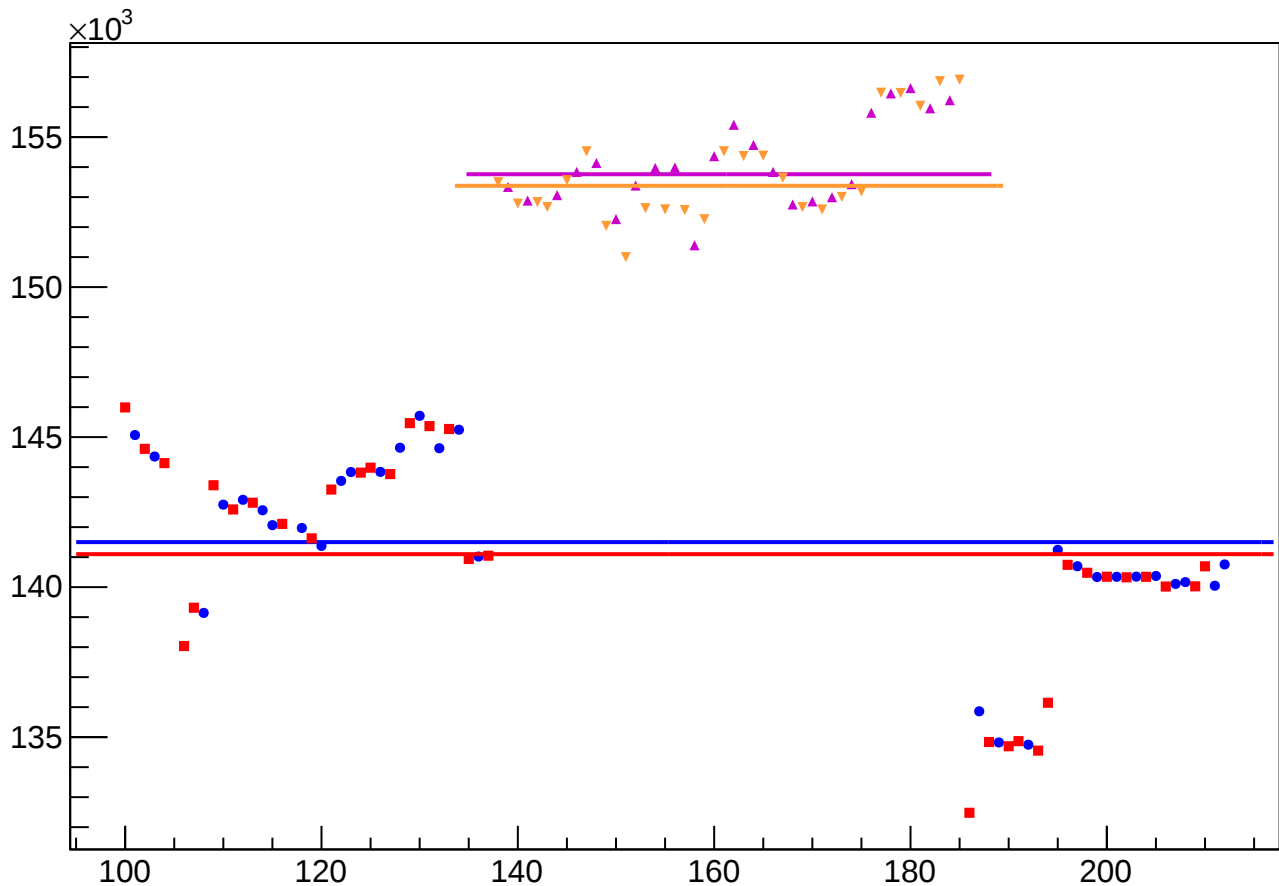
Right: 188.256 $\pm$ 0.025 χ^2 /NDF: 8359783.9/62

In: 199.552 $\pm$ 0.026 χ^2 /NDF: 4863114.0/52

Out: 195.761 $\pm$ 0.025 χ^2 /NDF: 5192817.6/57

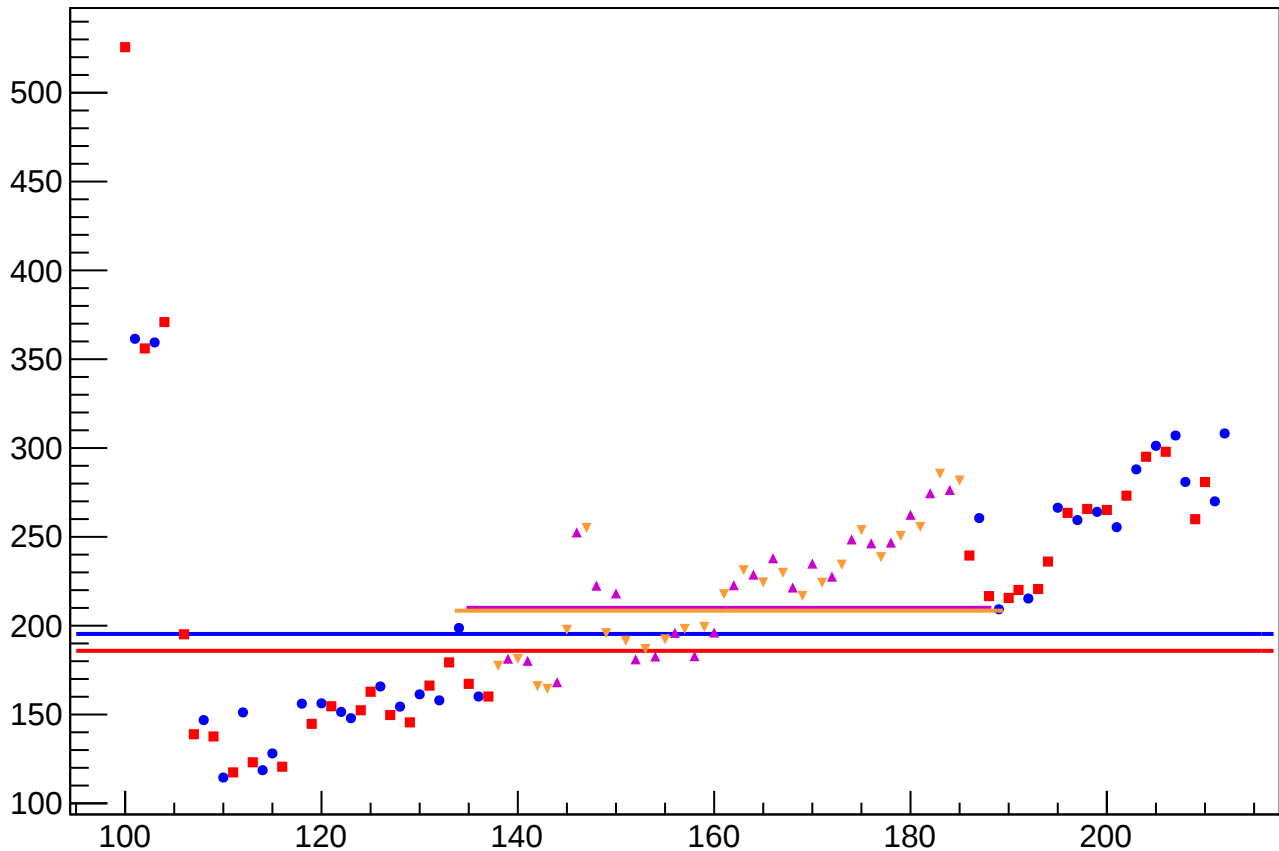
All: 197.579 $\pm$ 0.018 χ^2 /NDF: 10067273.4/111

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141500.469+/-0.052	χ^2/NDF : 2735630008.1/29	Left: 153562.262+/-0.036	χ^2/NDF : 1468093411.3/4
Left Out: 153376.698+/-0.050	χ^2/NDF : 803848095.1/24	Right: 141286.996+/-0.036	χ^2/NDF : 7211601322.6/5
Right Out: 141098.986+/-0.049	χ^2/NDF : 4444255192.1/32	In: 147695.092+/-0.037	χ^2/NDF : 31479703278.5/5
Left In: 153762.419+/-0.051	χ^2/NDF : 635075685.0/22	Out: 147144.049+/-0.035	χ^2/NDF : 36433553085.8
		All: 147405.611+/-0.025	χ^2/NDF : 680325562

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 195.349+/-0.037 χ^2/NDF : 2990639.5/29

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 185.853+/-0.034 χ^2/NDF : 3135513.1/32

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

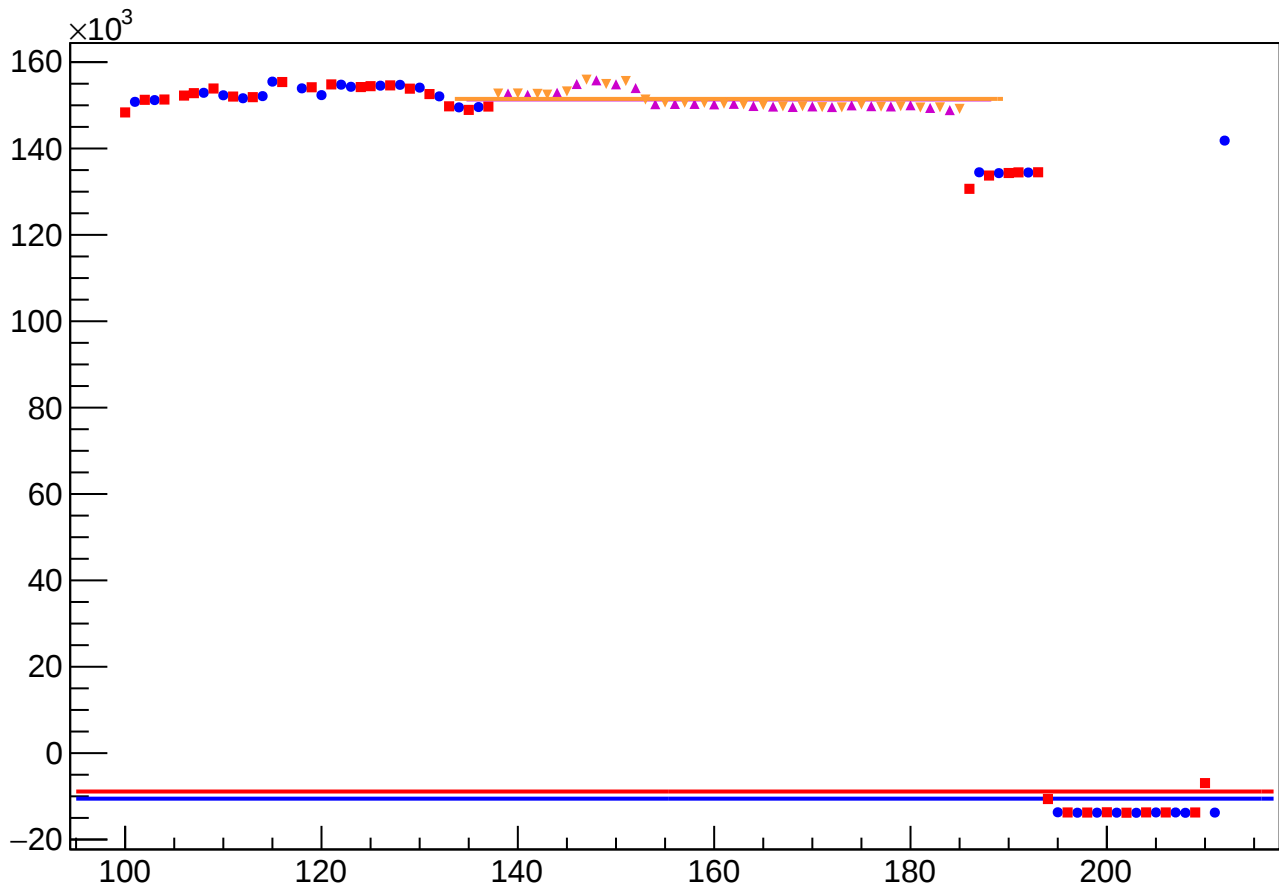
Right: 190.299+/-0.025 χ^2/NDF : 6161639.1/62

In: 202.769+/-0.026 χ^2/NDF : 3773686.8/52

Out: 196.986+/-0.025 χ^2/NDF : 4067988.6/57

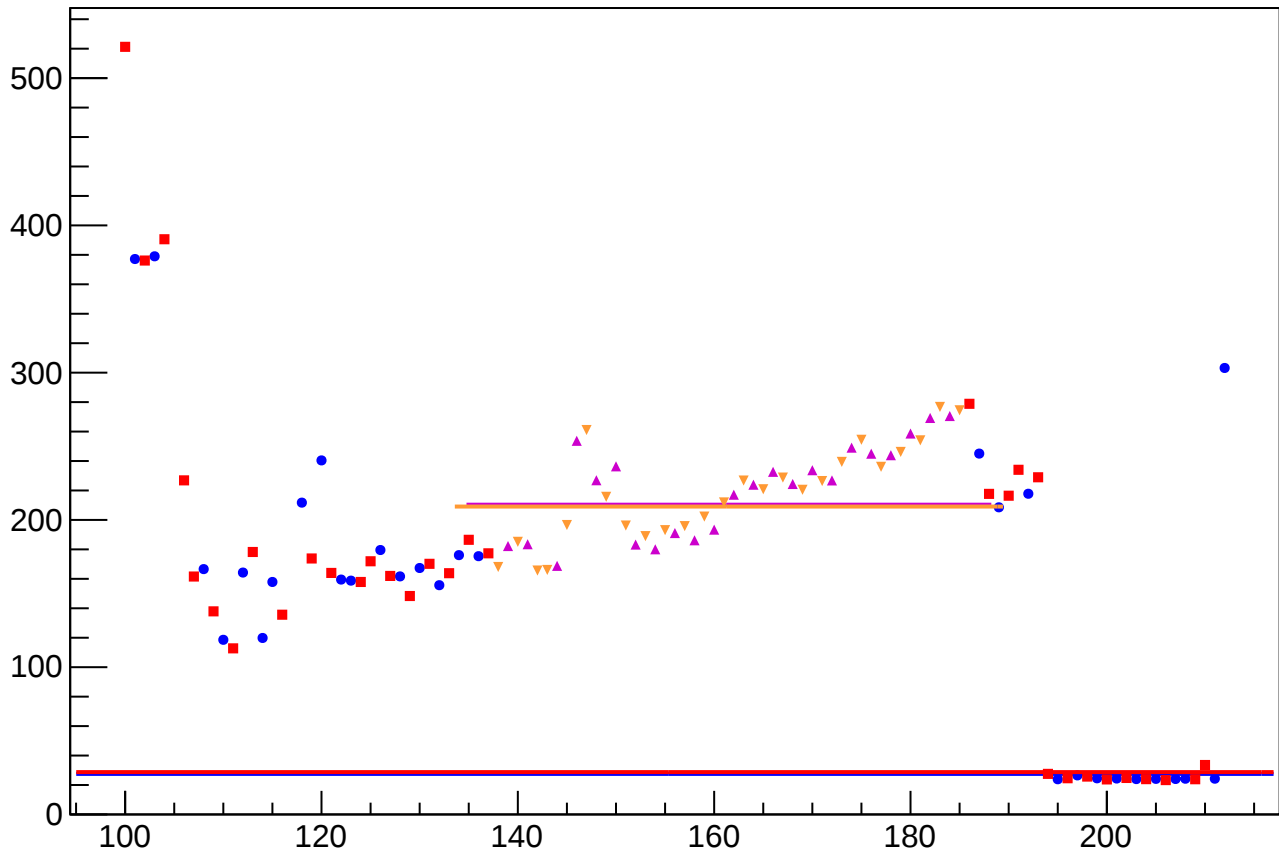
All: 199.731+/-0.018 χ^2/NDF : 7867953.9/110

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10540.591+/-0.009	$\chi^2/\text{NDF}: 6086350670782.8/29$	Left: 151425.512+/-0.036	$\chi^2/\text{NDF}: 2906409079.9/4$
Left Out: 151483.385+/-0.050	$\chi^2/\text{NDF}: 1481910066.9/24$	Right: -9784.993+/-0.007	$\chi^2/\text{NDF}: 1326759503948$
Right Out: -8886.200+/-0.010	$\chi^2/\text{NDF}: 7166544264945.3/32$	In: -5492.074+/-0.009	$\chi^2/\text{NDF}: 15699734151793.5$
Left In: 151363.165+/-0.051	$\chi^2/\text{NDF}: 1421662089.0/22$	Out: -2533.734+/-0.010	$\chi^2/\text{NDF}: 17239361241382$
		All: -4134.515+/-0.007	$\chi^2/\text{NDF}: 3298784327$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.542 $\pm$ 0.007 χ^2 /NDF: 12817022.7/29

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 28.759 $\pm$ 0.007 χ^2 /NDF: 13536317.4/32

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

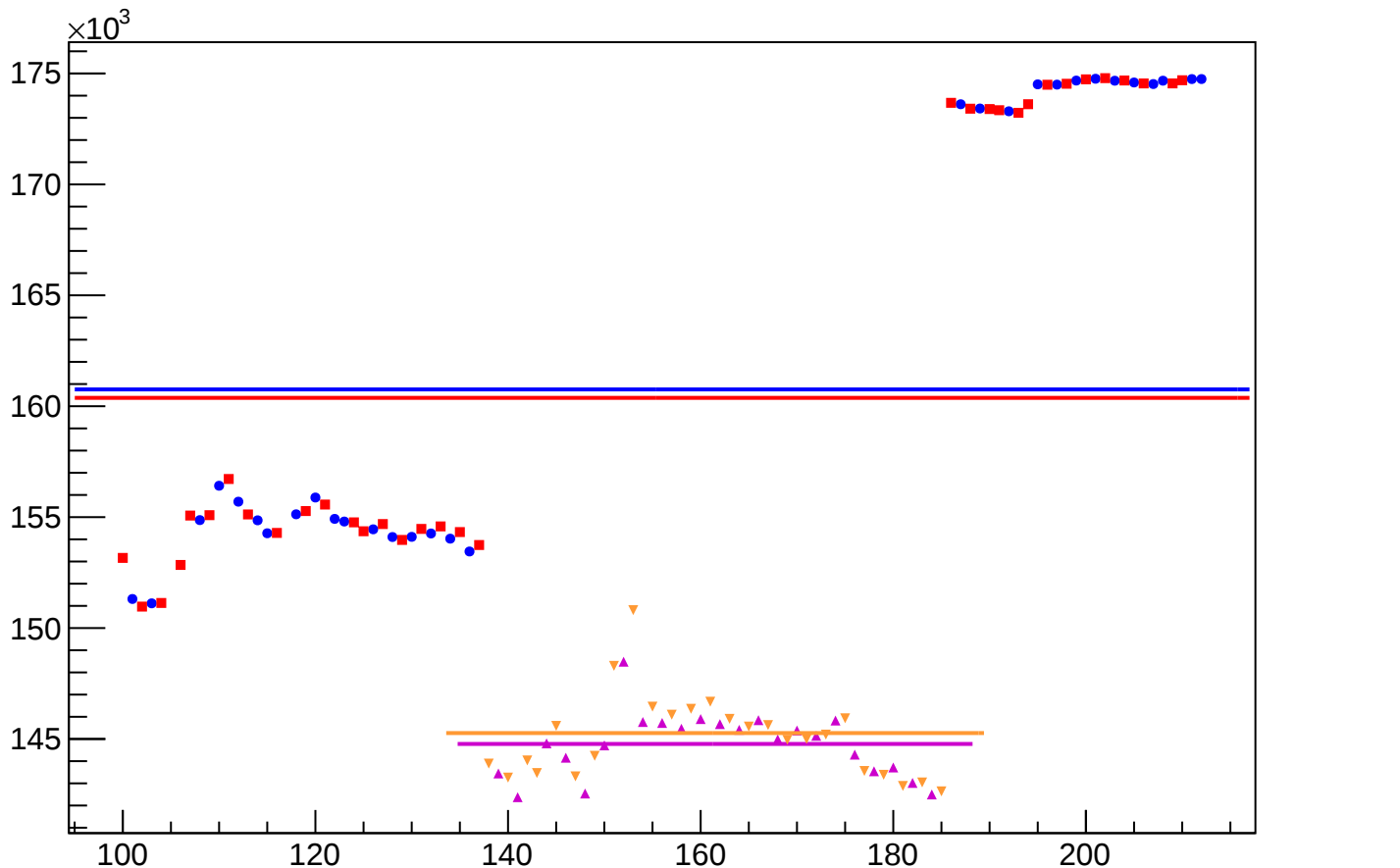
Right: 28.097 $\pm$ 0.005 χ^2 /NDF: 26369247.9/62

In: 33.242 $\pm$ 0.006 χ^2 /NDF: 38002087.9/52

Out: 35.901 $\pm$ 0.007 χ^2 /NDF: 39709845.9/57

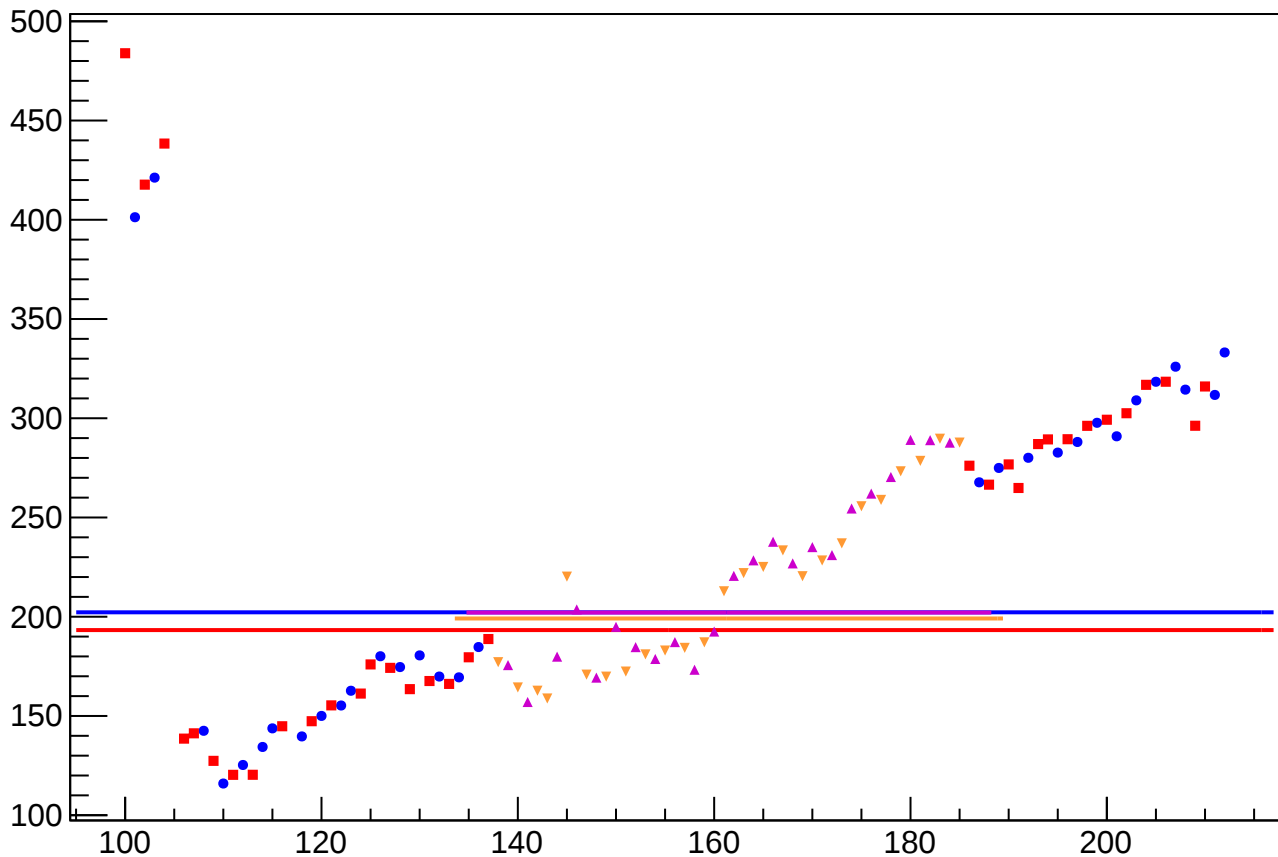
All: 34.462 $\pm$ 0.005 χ^2 /NDF: 77790718.5/110

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 160758.306 $\pm$ 0.055	χ^2 /NDF: 27609495395.3/29	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 160556.464 $\pm$ 0.037	χ^2 /NDF: 56900651663.7/1
Right Out: 160377.531 $\pm$ 0.051	χ^2 /NDF: 29265370792.1/32	In: 151996.335 $\pm$ 0.037	χ^2 /NDF: 75510193961.2/5
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152209.852 $\pm$ 0.035	χ^2 /NDF: 77692270304.3
		All: 152108.616 $\pm$ 0.025	χ^2 /NDF: 153220268

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 202.224 $\pm$ 0.039 χ^2/NDF : 4000271.3/29

Left Out: 199.118 $\pm$ 0.034 χ^2/NDF : 1152231.0/24

Right Out: 193.271 $\pm$ 0.036 χ^2/NDF : 4275456.7/32

Left In: 202.090 $\pm$ 0.035 χ^2/NDF : 1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2/NDF : 2213821.5/47

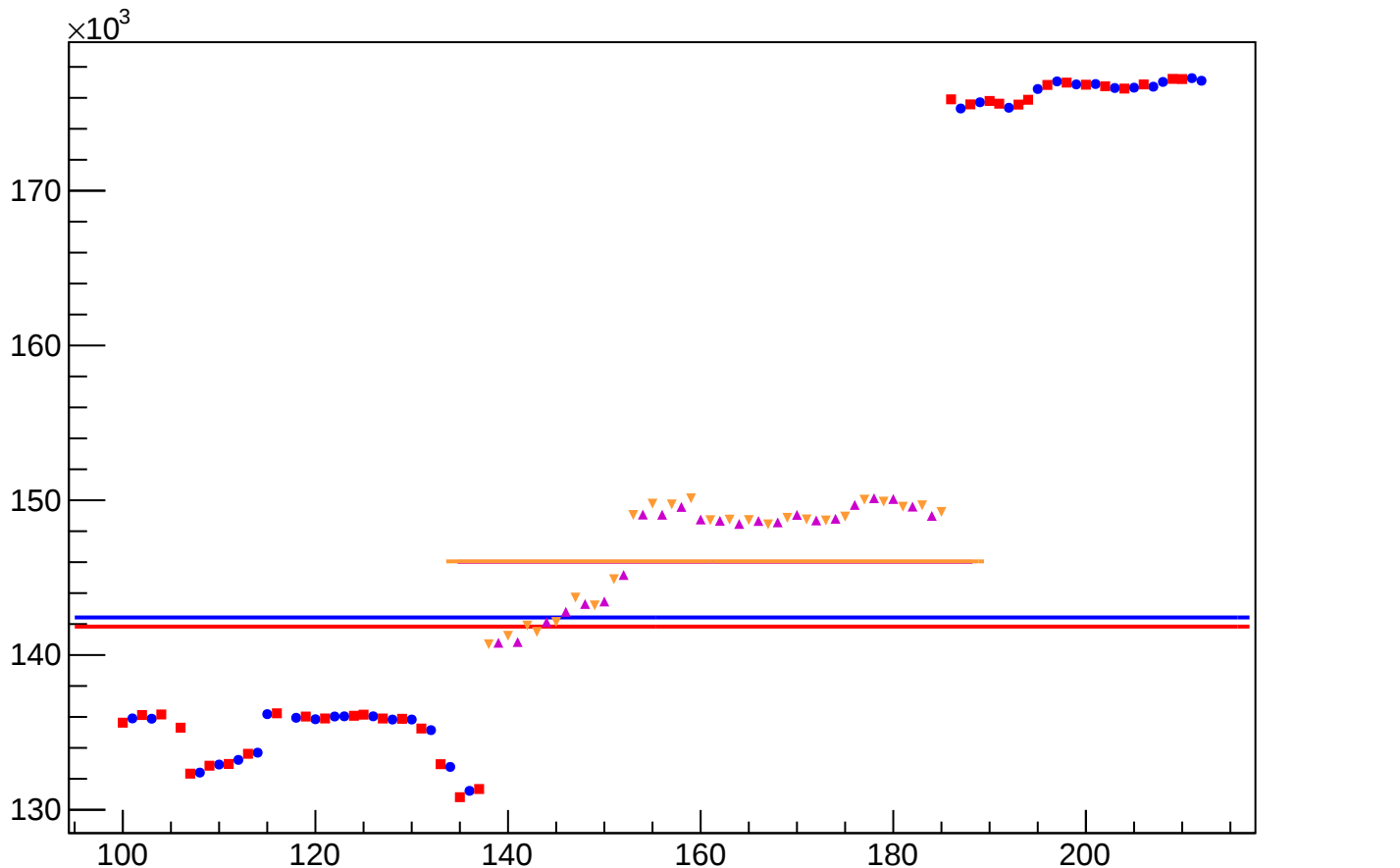
Right: 197.478 $\pm$ 0.026 χ^2/NDF : 8304235.8/62

In: 202.151 $\pm$ 0.026 χ^2/NDF : 5058111.2/52

Out: 196.432 $\pm$ 0.025 χ^2/NDF : 5441672.5/57

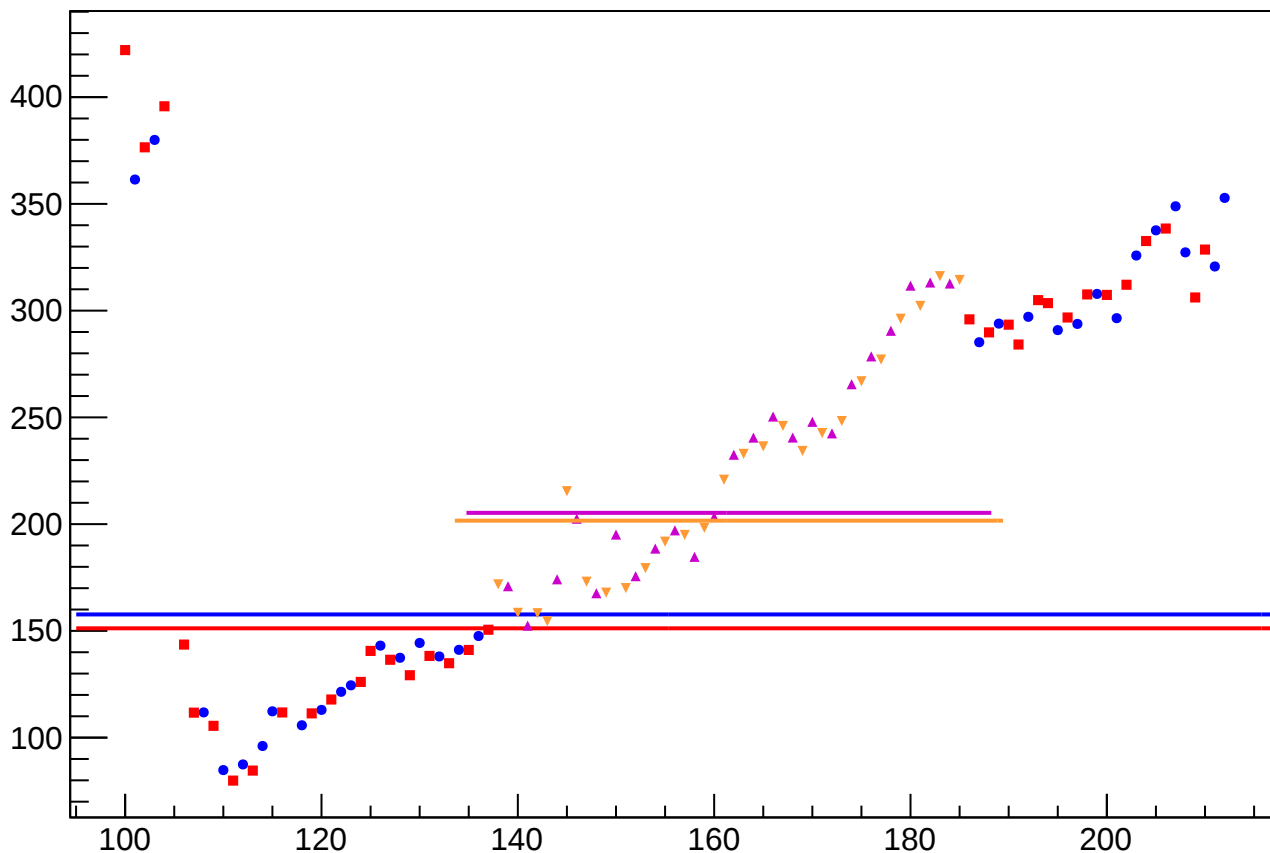
All: 199.143 $\pm$ 0.018 χ^2/NDF : 10525329.8/11

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 142427.294+/-0.045	χ^2/NDF : 136604513469.7/29	Left: 146036.626+/-0.035	χ^2/NDF : 9994930852.8/29
Left Out: 146051.733+/-0.048	χ^2/NDF : 5403300123.1/24	Right: 142115.855+/-0.031	χ^2/NDF : 282292978201.1/24
Right Out: 141836.676+/-0.043	χ^2/NDF : 145598816137.2/32	In: 144023.736+/-0.034	χ^2/NDF : 143991313788.1/32
Left In: 146020.015+/-0.051	χ^2/NDF : 4591425371.4/22	Out: 143694.678+/-0.032	χ^2/NDF : 155260091011.1/22
		All: 143850.743+/-0.023	χ^2/NDF : 299301333.1/22

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 157.701 $\pm$ 0.032 χ^2 /NDF: 7142976.2/29

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 151.199 $\pm$ 0.030 χ^2 /NDF: 7501942.6/32

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

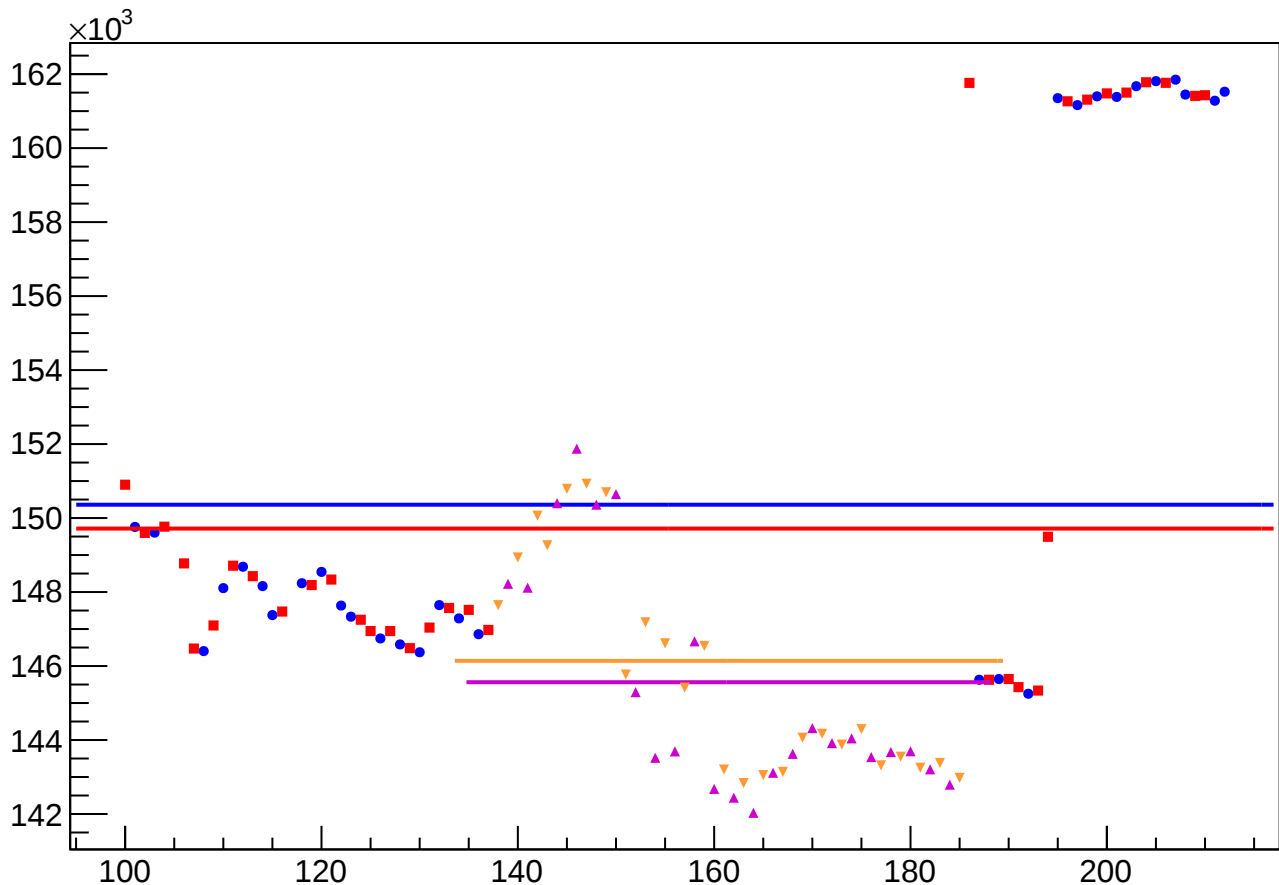
Right: 154.273 $\pm$ 0.022 χ^2 /NDF: 14666645.6/62

In: 178.846 $\pm$ 0.024 χ^2 /NDF:9549039.2/52

Out: 173.430 $\pm$ 0.023 χ^2 /NDF:10310609.7/57

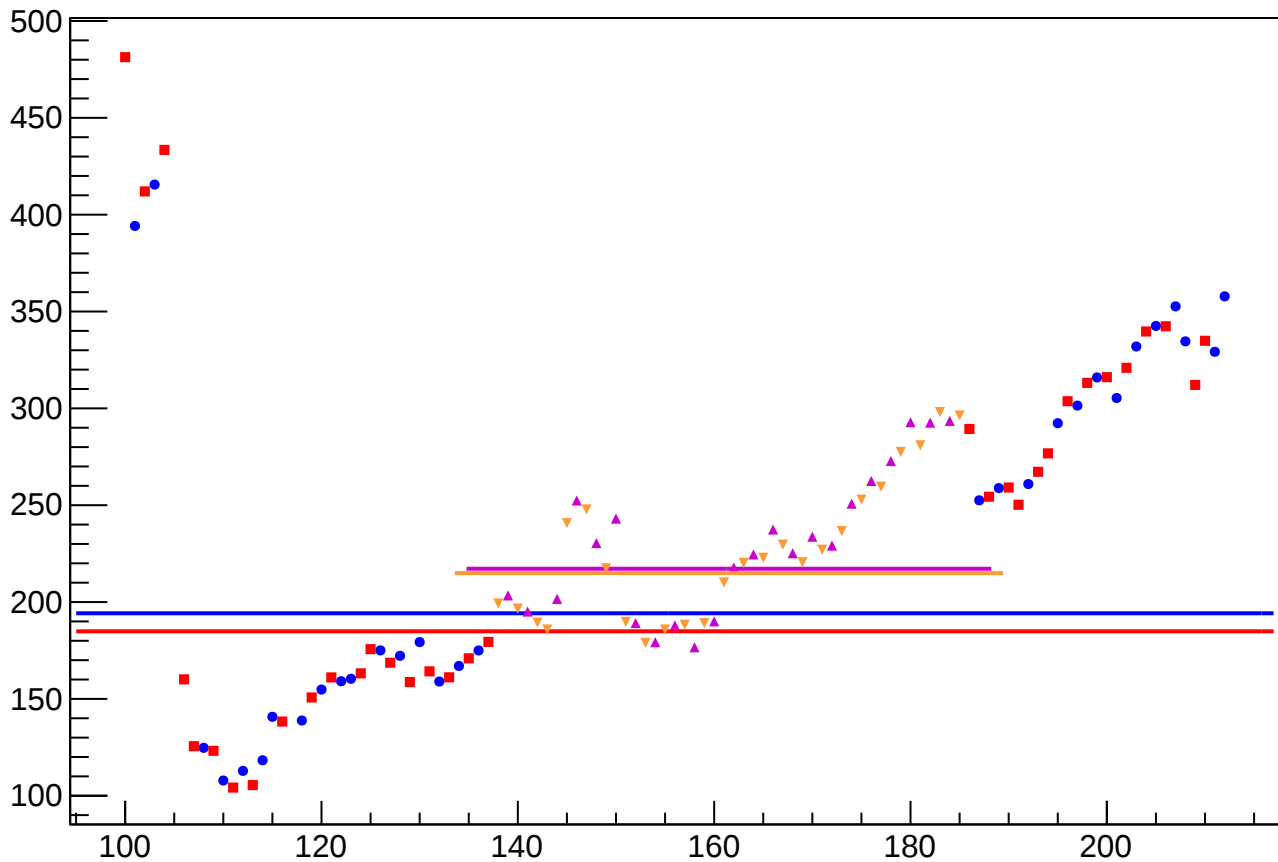
All: 175.999 $\pm$ 0.016 χ^2 /NDF: 19886698.9/11

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150360.772 $\pm$ 0.053	χ^2 /NDF: 11715390863.4/29	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: 150017.585 $\pm$ 0.036	χ^2 /NDF: 22353061602.0/1
Right Out: 149715.856 $\pm$ 0.050	χ^2 /NDF: 10559933830.1/32	In: 147948.478 $\pm$ 0.038	χ^2 /NDF: 18835583144.4/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147958.545 $\pm$ 0.036	χ^2 /NDF: 15770313064.4/1
		All: 147953.778 $\pm$ 0.026	χ^2 /NDF: 3460593380.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 194.206+/-0.038 χ^2/NDF : 4899981.4/29

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 184.898+/-0.035 χ^2/NDF : 5130785.1/32

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

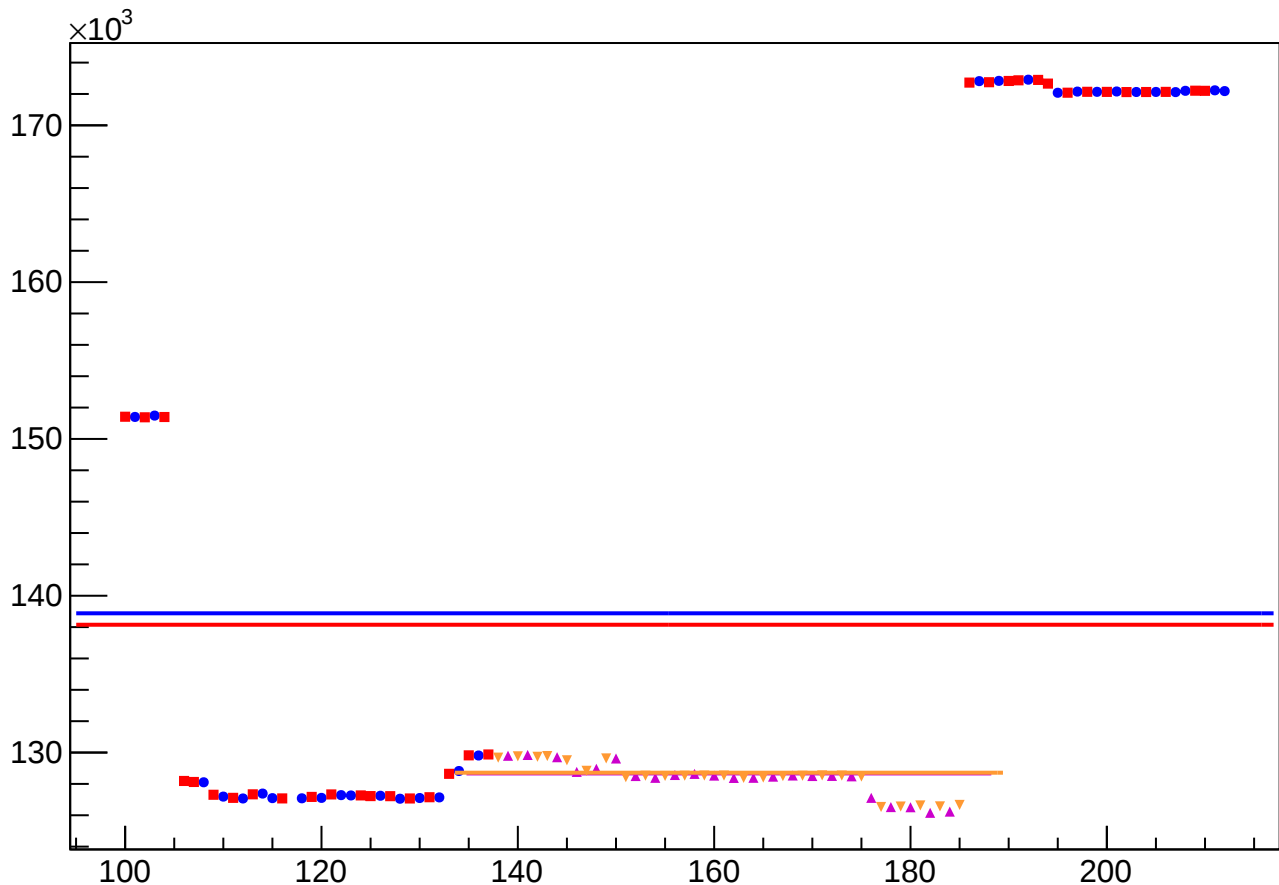
Right: 189.253+/-0.026 χ^2/NDF : 10063153.3/62

In: 205.767+/-0.027 χ^2/NDF : 5851552.7/52

Out: 199.661+/-0.025 χ^2/NDF : 6213727.1/57

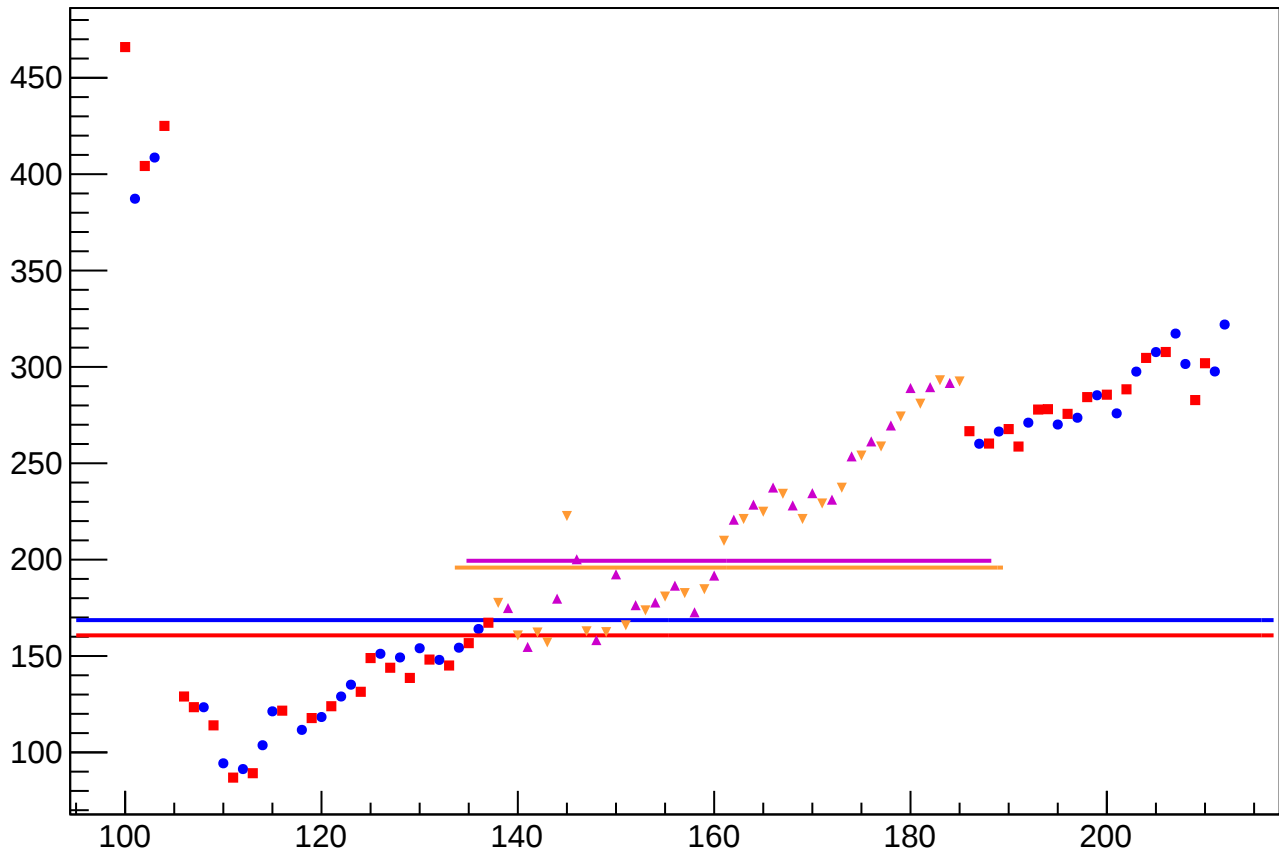
All: 202.553+/-0.018 χ^2/NDF : 12093009.9/11

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 138879.839 $\pm$ 0.047	χ^2/NDF : 168081967100.3/29	Left: 128691.898 $\pm$ 0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507 $\pm$ 0.047	χ^2/NDF : 348178101.1/24	Right: 138492.159 $\pm$ 0.032	χ^2/NDF : 350940518394
Right Out: 138150.270 $\pm$ 0.044	χ^2/NDF : 182731010136.6/32	In: 133975.375 $\pm$ 0.034	χ^2/NDF : 191001463321.0
Left In: 128667.013 $\pm$ 0.049	χ^2/NDF : 333059477.6/22	Out: 133689.033 $\pm$ 0.032	χ^2/NDF : 204603576888.
		All: 133824.230 $\pm$ 0.023	χ^2/NDF : 395642587

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 168.620 $\pm$ 0.033 χ^2 /NDF: 5741573.1/29

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 160.708 $\pm$ 0.031 χ^2 /NDF: 6074282.8/32

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2 /NDF: 2484502.8/47

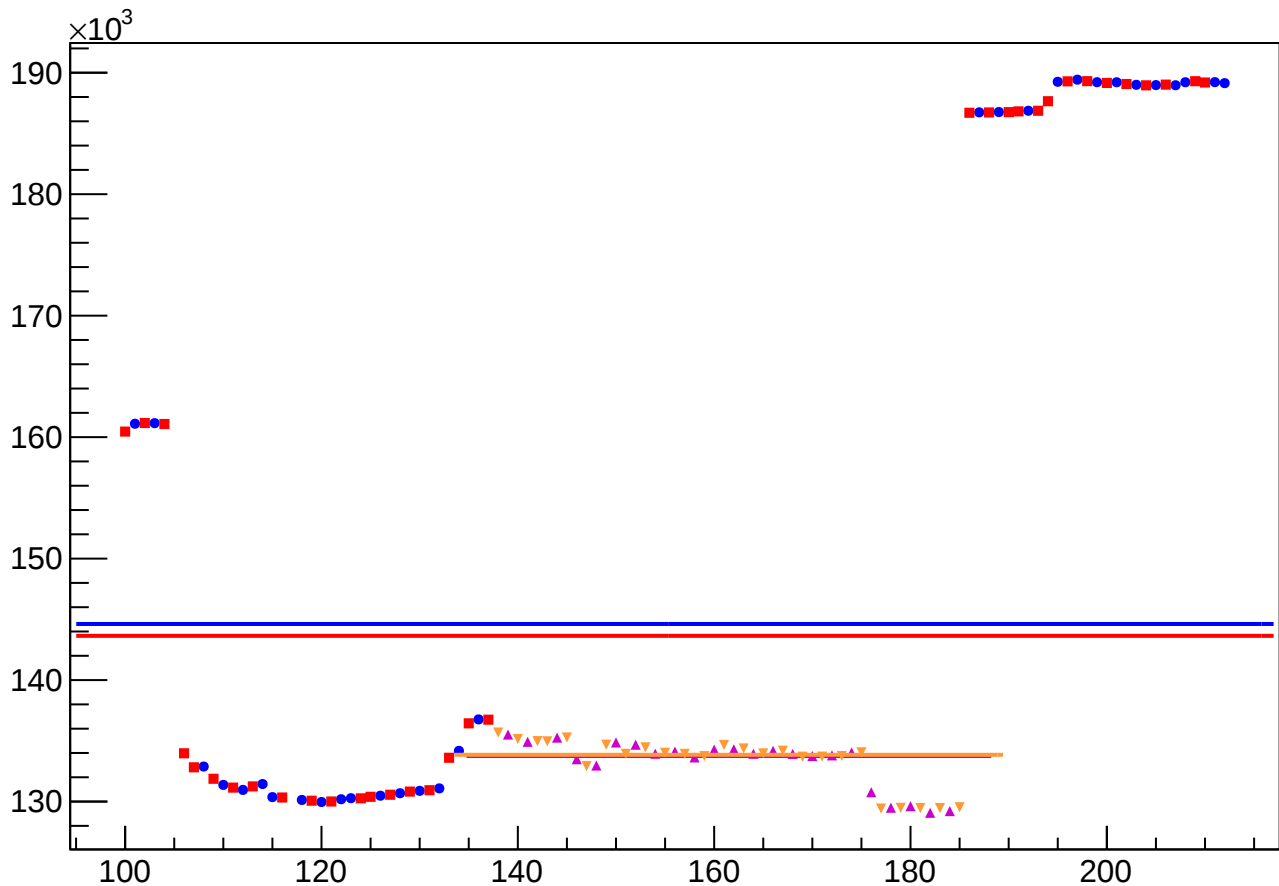
Right: 164.415 $\pm$ 0.023 χ^2 /NDF: 11845856.3/62

In: 183.408 $\pm$ 0.024 χ^2 /NDF:7317961.1/52

Out: 177.338 $\pm$ 0.023 χ^2 /NDF:7985888.7/57

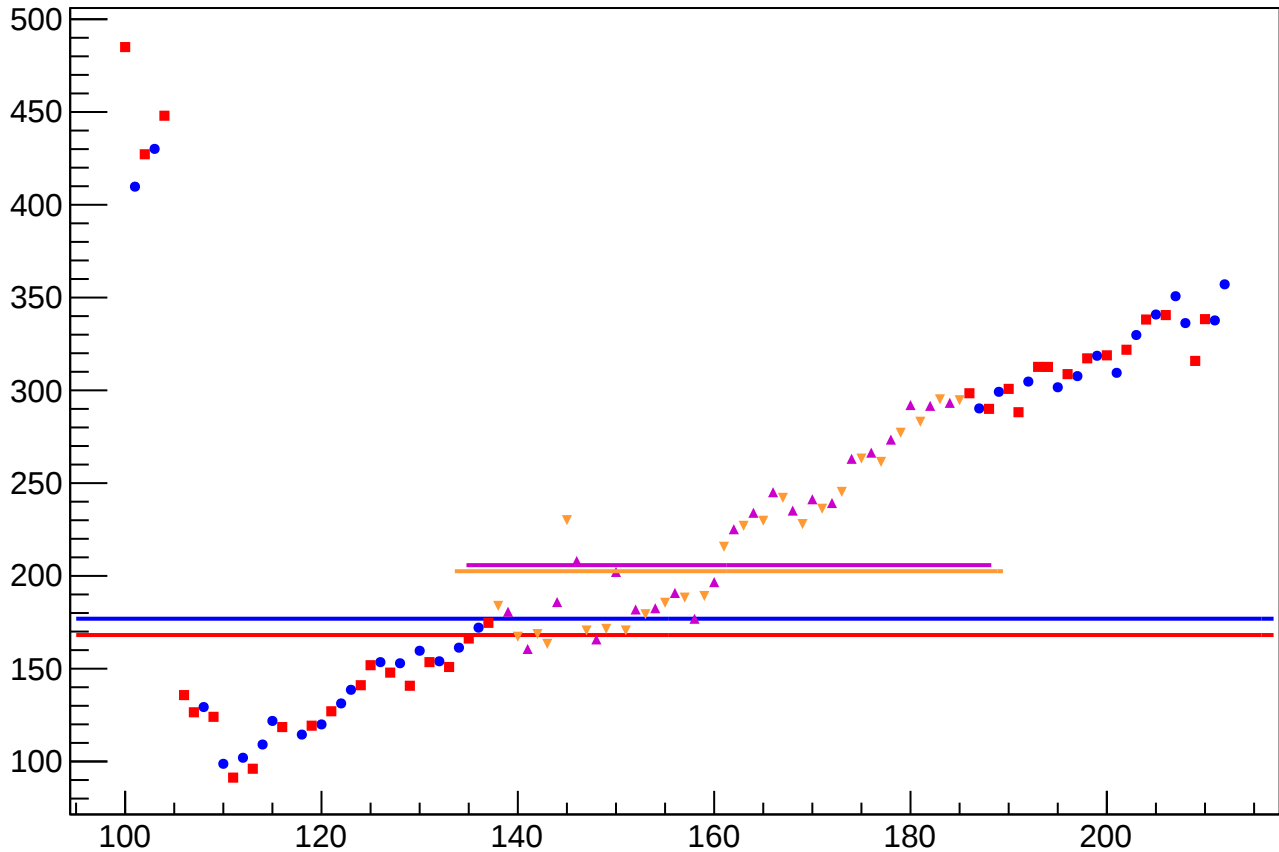
All: 180.204 $\pm$ 0.016 χ^2 /NDF: 15337586.5/11

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 144620.284 $\pm$ 0.050 χ^2 /NDF: 228237017515.0/29
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 143643.381 $\pm$ 0.047 χ^2 /NDF: 242521466418.8/32
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 144100.060 $\pm$ 0.034 χ^2 /NDF: 470962120009
 In: 139245.285 $\pm$ 0.036 χ^2 /NDF: 252603532210.3
 Out: 138892.732 $\pm$ 0.034 χ^2 /NDF: 264836570593.
 All: 139059.149 $\pm$ 0.024 χ^2 /NDF: 517492114

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 176.931+/-0.035 χ^2/NDF : 6295665.4/29

Left Out: 202.527+/-0.034 χ^2/NDF : 1211991.5/24

Right Out: 168.140+/-0.033 χ^2/NDF : 6678059.8/32

Left In: 205.808+/-0.036 χ^2/NDF : 1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

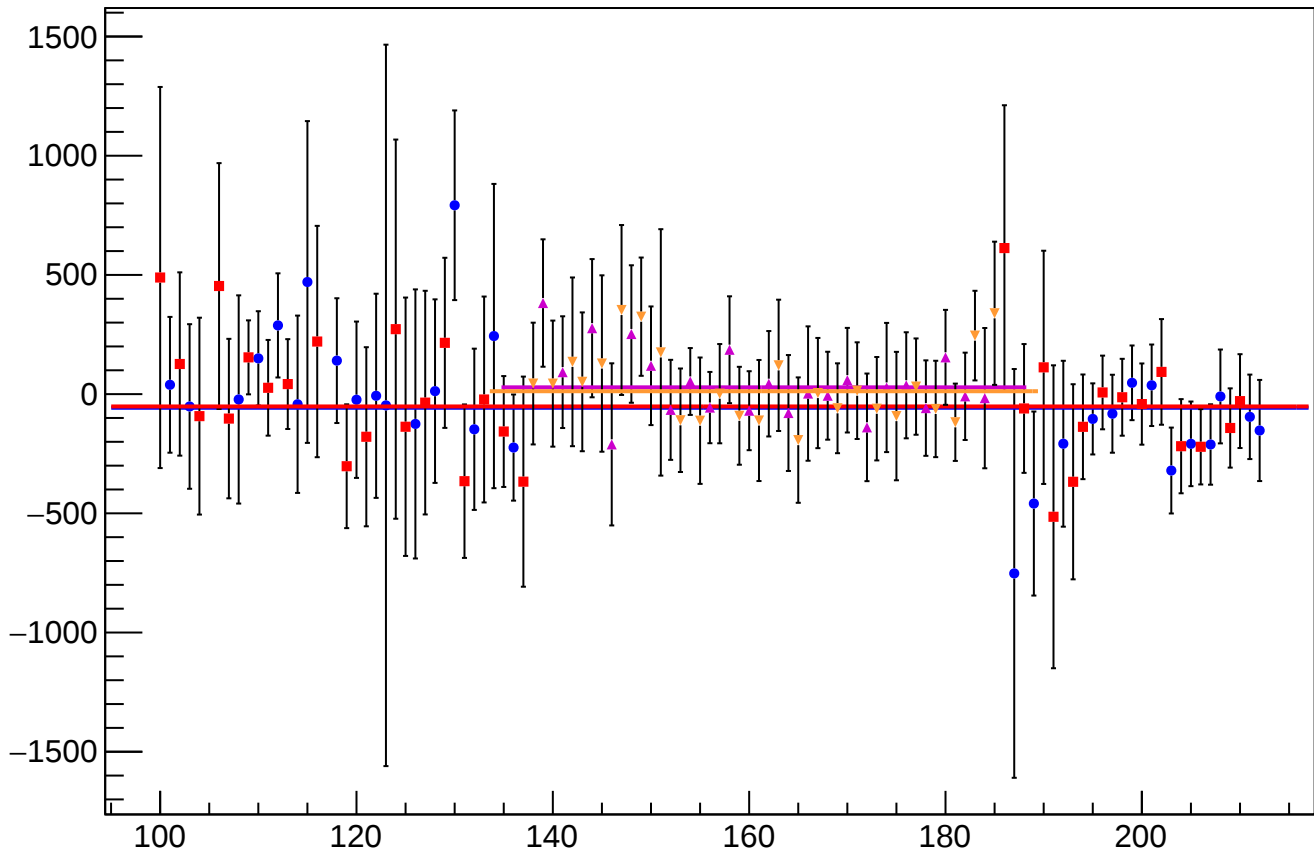
Right: 172.249+/-0.024 χ^2/NDF : 13006703.8/62

In: 191.209+/-0.025 χ^2/NDF : 7720422.7/52

Out: 184.822+/-0.024 χ^2/NDF : 8413730.4/57

All: 187.837+/-0.017 χ^2/NDF : 16168296.6/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -57.148 ± 44.254 $\chi^2/\text{NDF}: 17.2/29$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -51.717 ± 44.005 $\chi^2/\text{NDF}: 13.0/32$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

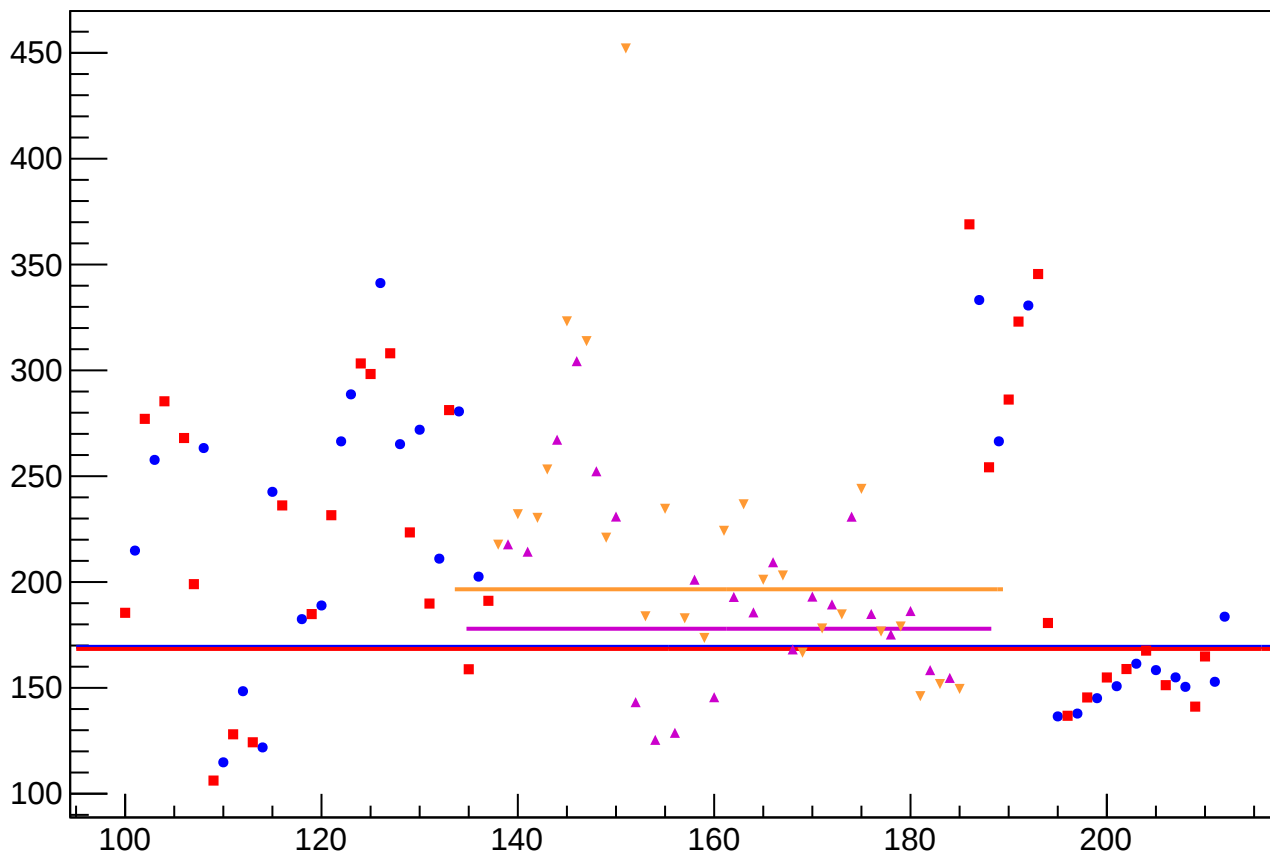
Right: -54.417 ± 31.204 $\chi^2/\text{NDF}: 30.2/62$

In: -14.766 ± 31.445 $\chi^2/\text{NDF}: 25.7/52$

Out: -22.226 ± 32.291 $\chi^2/\text{NDF}: 22.6/57$

All: -18.397 ± 22.528 $\chi^2/\text{NDF}: 48.3/110$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.382 $\pm$ 0.031 χ^2 /NDF: 2149722.7/29

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 168.398 $\pm$ 0.031 χ^2 /NDF: 2839265.1/32

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

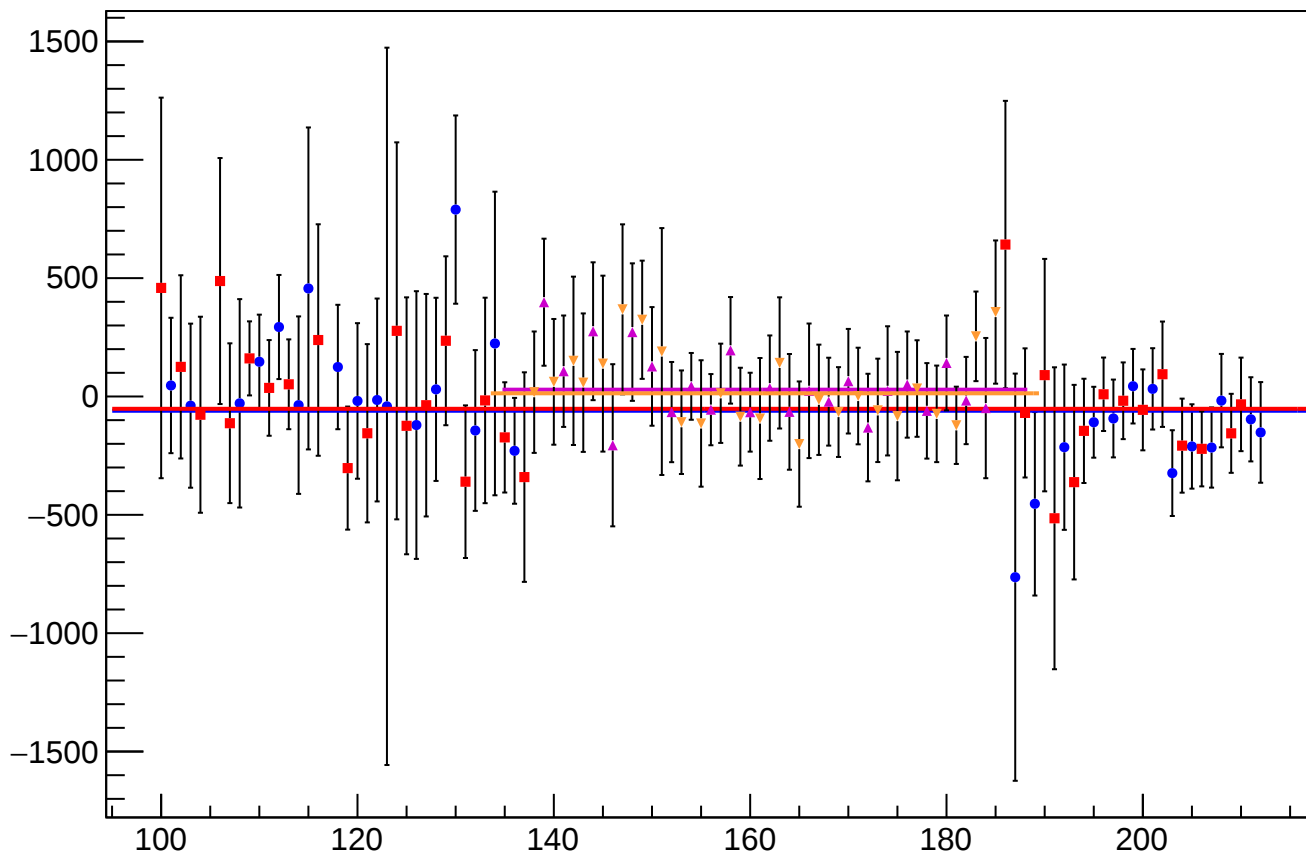
Right: 168.888 $\pm$ 0.022 χ^2 /NDF: 4989484.8/62

In: 173.616 $\pm$ 0.022 χ^2 /NDF:3792471.6/52

Out: 181.403 $\pm$ 0.023 χ^2 /NDF:4996466.8/57

All: 177.406 $\pm$ 0.016 χ^2 /NDF: 8848646.5/110

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -60.269 ± 44.455 $\chi^2/\text{NDF}: 17.1/29$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -52.036 ± 44.221 $\chi^2/\text{NDF}: 13.3/32$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

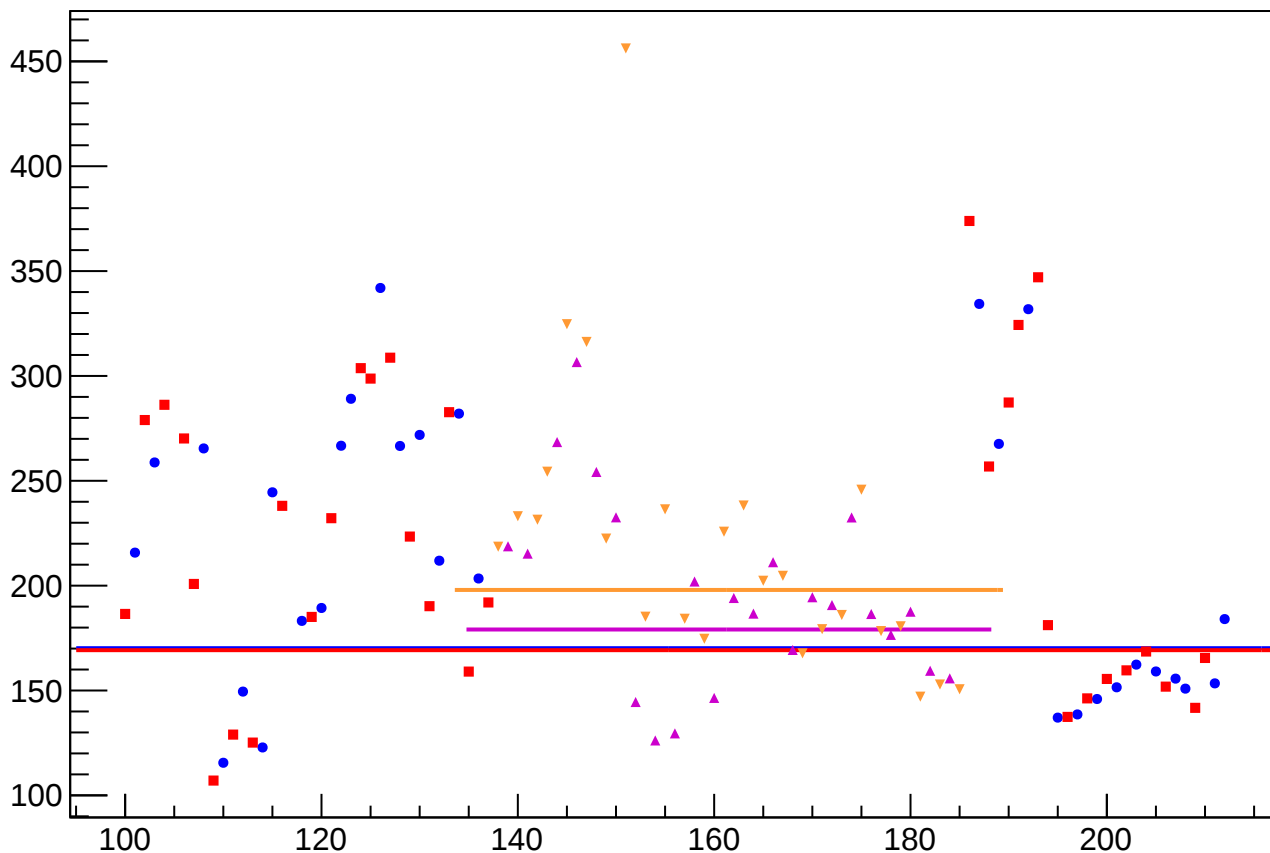
Right: -56.130 ± 31.352 $\chi^2/\text{NDF}: 30.4/62$

In: -16.253 ± 31.619 $\chi^2/\text{NDF}: 25.9/52$

Out: -21.904 ± 32.480 $\chi^2/\text{NDF}: 23.3/57$

All: -19.003 ± 22.656 $\chi^2/\text{NDF}: 49.2/110$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.175 $\pm$ 0.031 χ^2 /NDF: 2141417.1/29

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 169.235 $\pm$ 0.031 χ^2 /NDF: 2835354.0/32

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

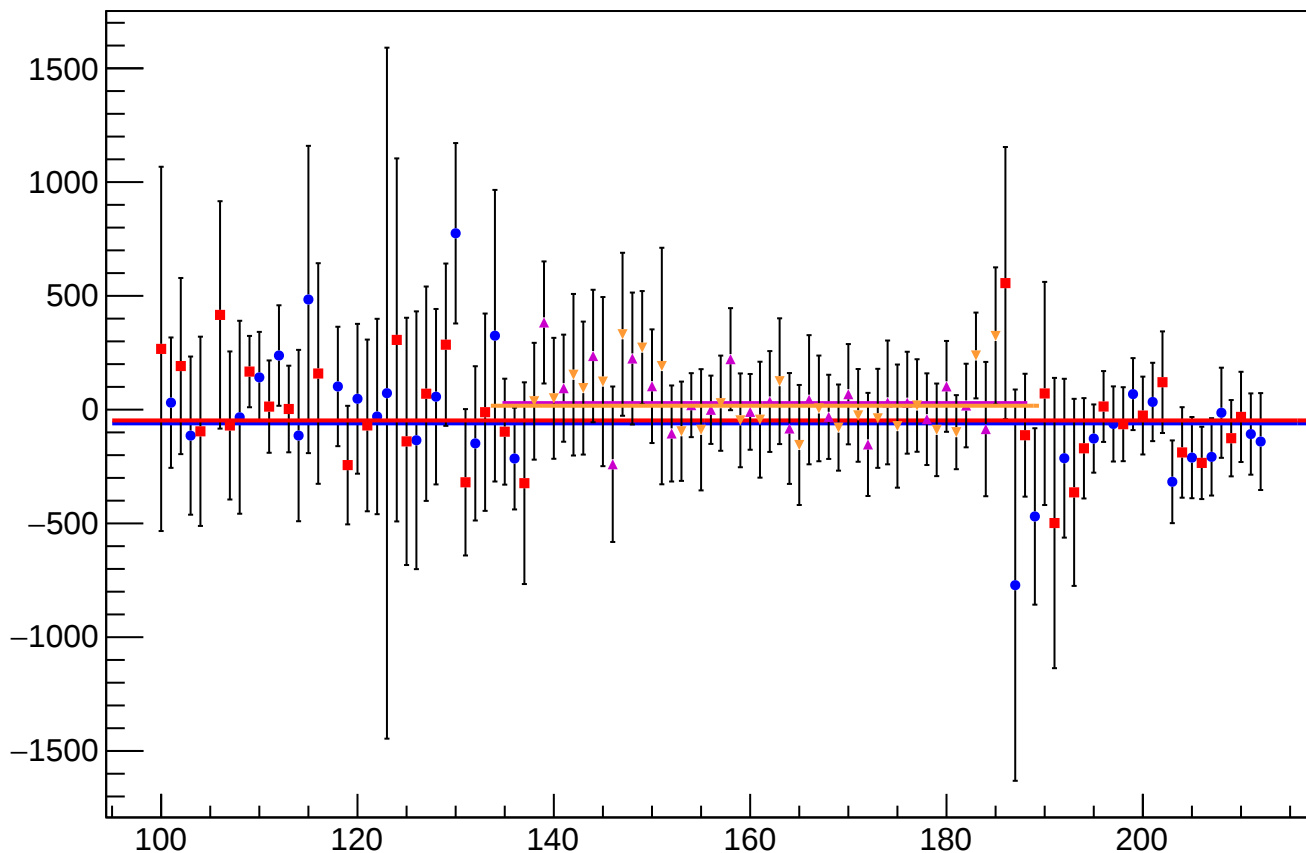
Right: 169.703 $\pm$ 0.022 χ^2 /NDF: 4977219.8/62

In: 174.580 $\pm$ 0.022 χ^2 /NDF:3786274.3/52

Out: 182.460 $\pm$ 0.023 χ^2 /NDF:4998301.2/57

All: 178.414 $\pm$ 0.016 χ^2 /NDF: 8845023.4/110

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -60.291 ± 44.540 $\chi^2/\text{NDF}: 16.5/29$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -47.435 ± 44.249 $\chi^2/\text{NDF}: 11.9/32$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

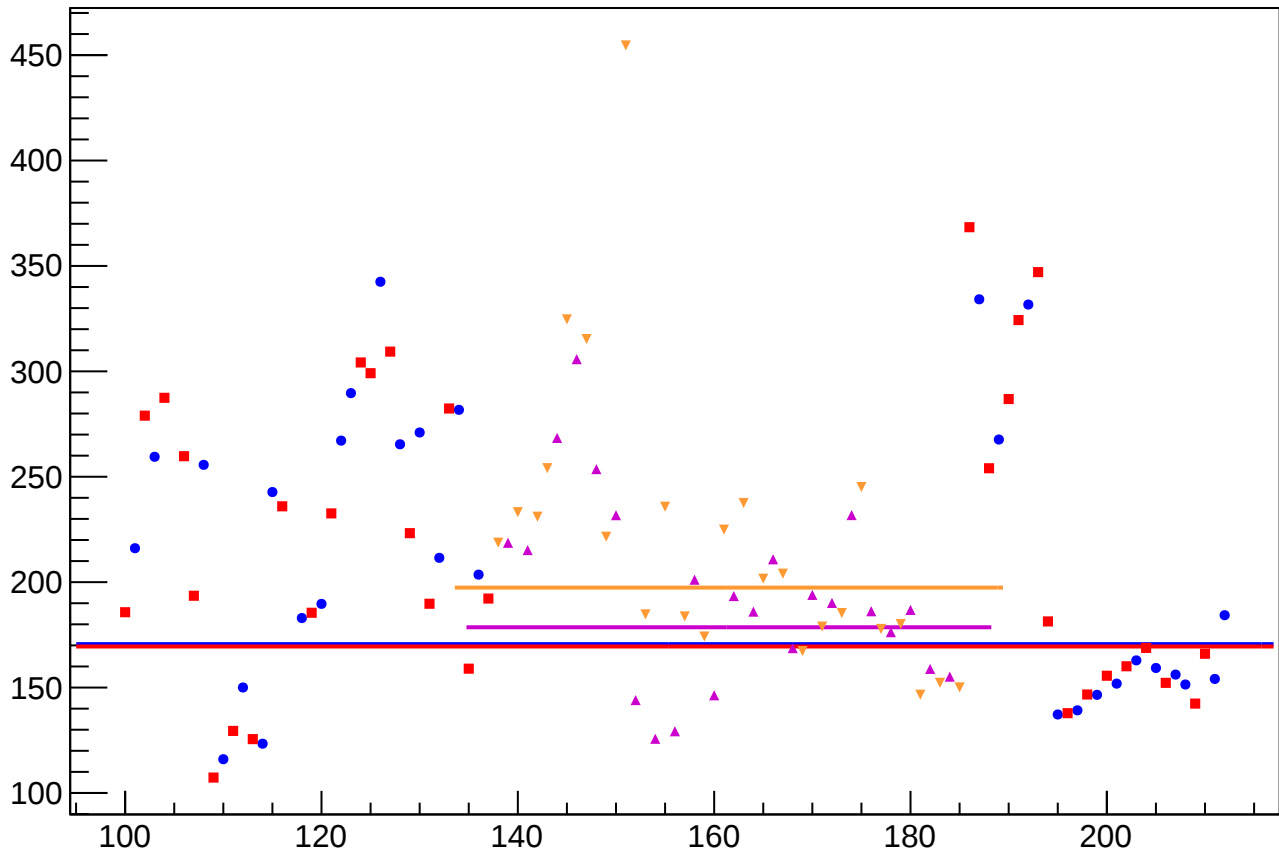
Right: -53.821 ± 31.391 $\chi^2/\text{NDF}: 28.4/62$

In: -16.135 ± 31.607 $\chi^2/\text{NDF}: 24.6/52$

Out: -17.592 ± 32.452 $\chi^2/\text{NDF}: 20.0/57$

All: -16.844 ± 22.642 $\chi^2/\text{NDF}: 44.6/110$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 170.593 $\pm$ 0.031 χ^2 /NDF: 2108712.1/29

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 169.476 $\pm$ 0.031 χ^2 /NDF: 2787630.1/32

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

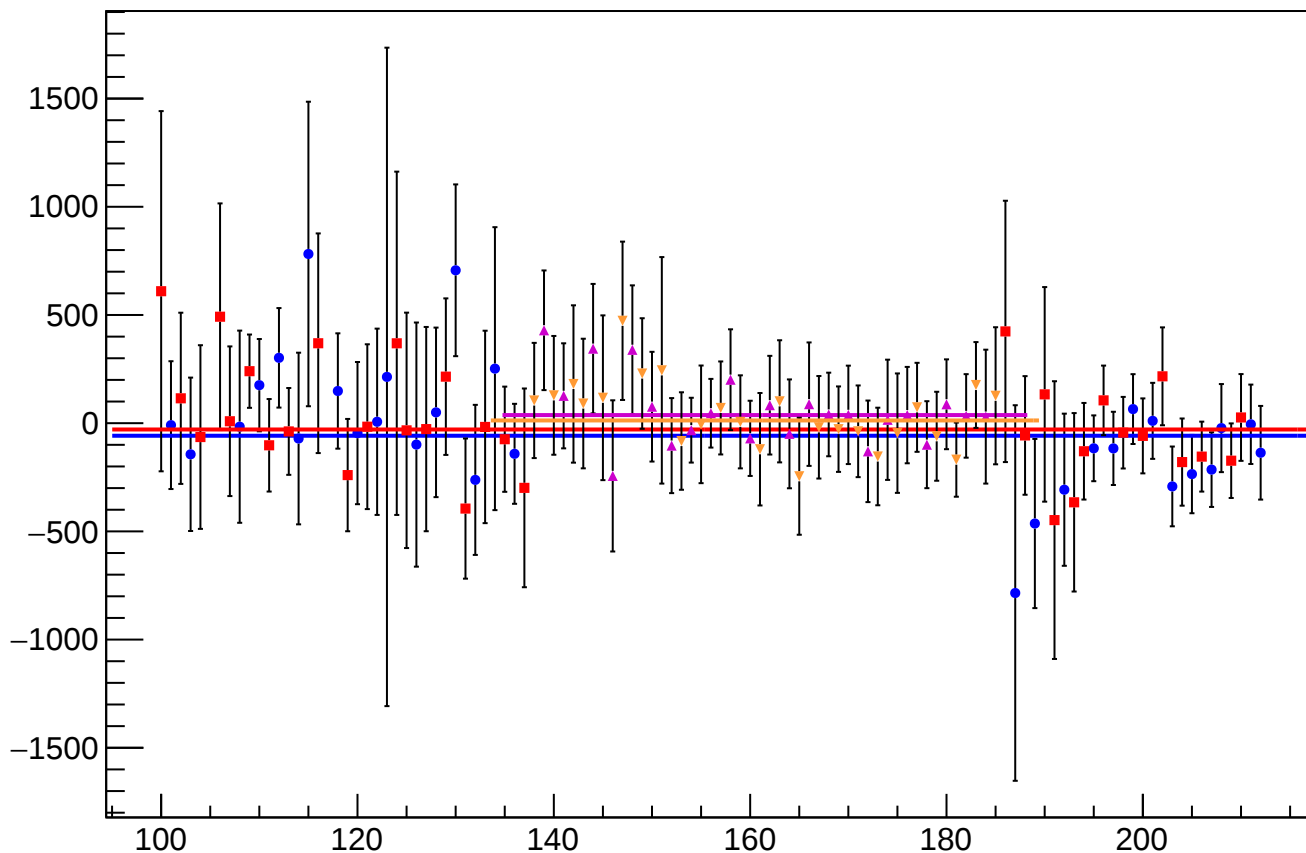
Right: 170.031 $\pm$ 0.022 χ^2 /NDF: 4896975.2/62

In: 174.569 $\pm$ 0.022 χ^2 /NDF:3749807.3/52

Out: 182.391 $\pm$ 0.023 χ^2 /NDF:4936540.1/57

All: 178.376 $\pm$ 0.016 χ^2 /NDF: 8745977.4/110

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -58.059 ± 45.540 $\chi^2/\text{NDF}: 17.3/29$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -29.149 ± 45.446 $\chi^2/\text{NDF}: 13.9/32$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

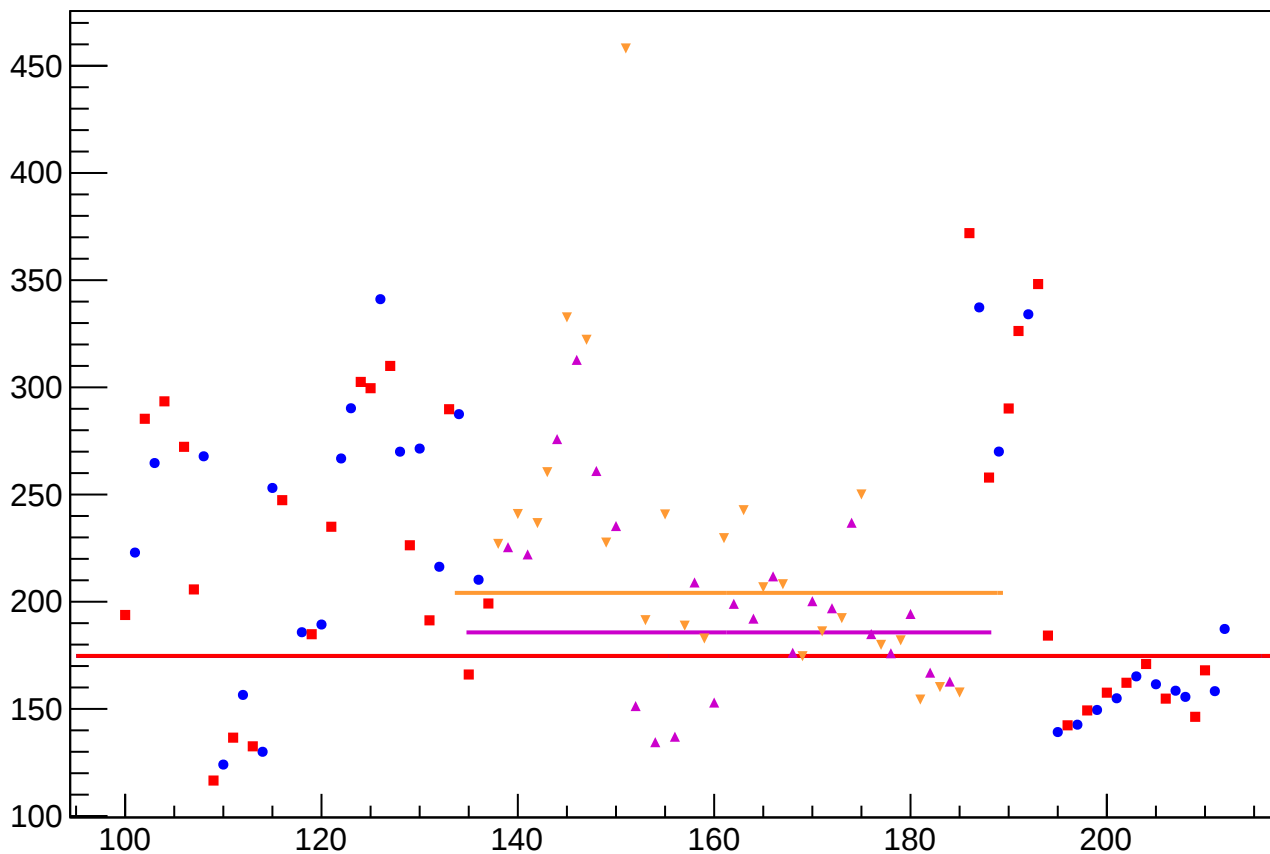
Right: -43.574 ± 32.169 $\chi^2/\text{NDF}: 31.3/62$

In: -11.274 ± 32.528 $\chi^2/\text{NDF}: 27.0/52$

Out: -9.930 ± 33.397 $\chi^2/\text{NDF}: 21.8/57$

All: -10.620 ± 23.302 $\chi^2/\text{NDF}: 48.8/110$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 174.681 $\pm$ 0.032 χ^2 /NDF: 2032650.6/29

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 174.724 $\pm$ 0.032 χ^2 /NDF: 2608336.1/32

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

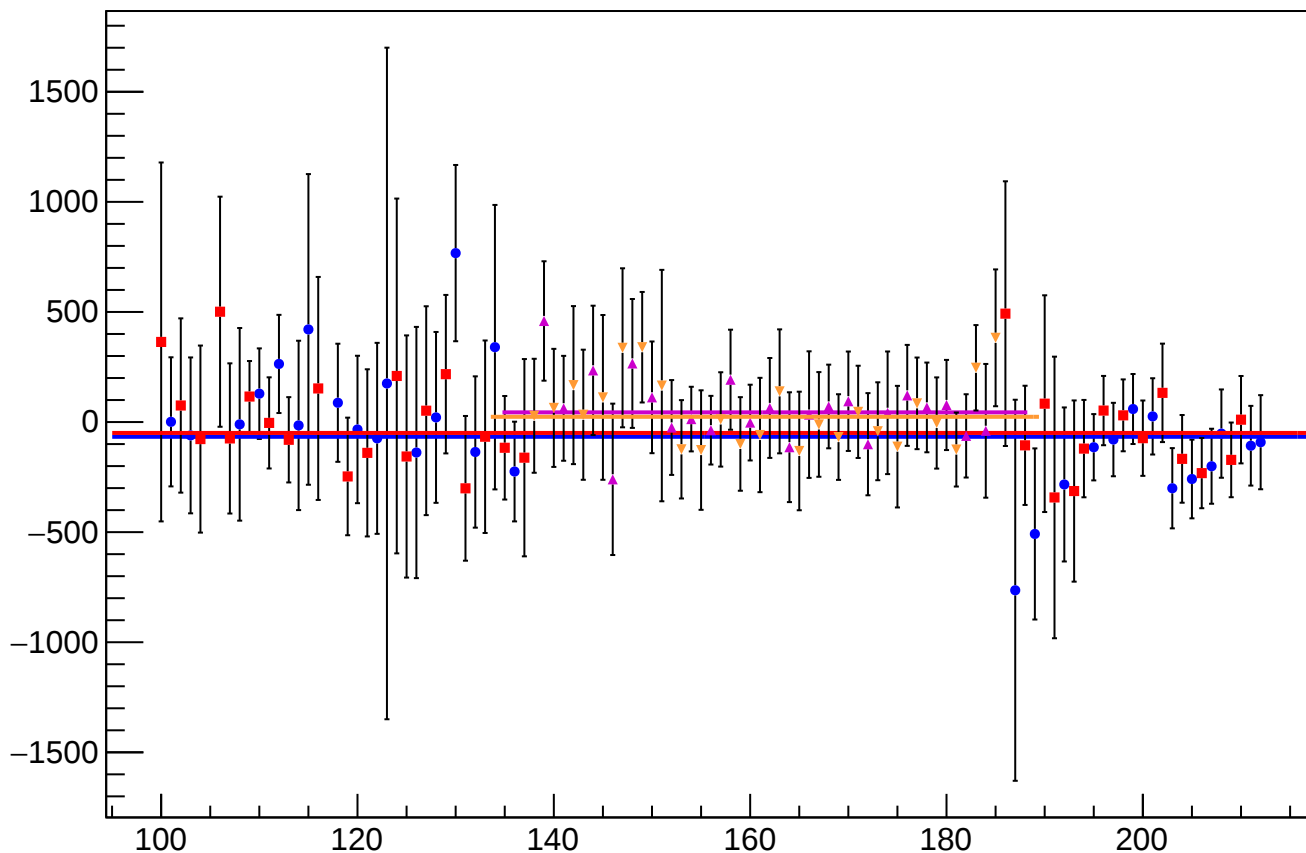
Right: 174.703 $\pm$ 0.023 χ^2 /NDF: 4640987.5/62

In: 180.075 $\pm$ 0.023 χ^2 /NDF:3537703.5/52

Out: 188.251 $\pm$ 0.024 χ^2 /NDF:4665824.7/57

All: 184.055 $\pm$ 0.016 χ^2 /NDF: 8265041.3/110

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -66.959 ± 44.964 $\chi^2/\text{NDF}: 16.2/29$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -49.445 ± 44.735 $\chi^2/\text{NDF}: 10.1/32$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

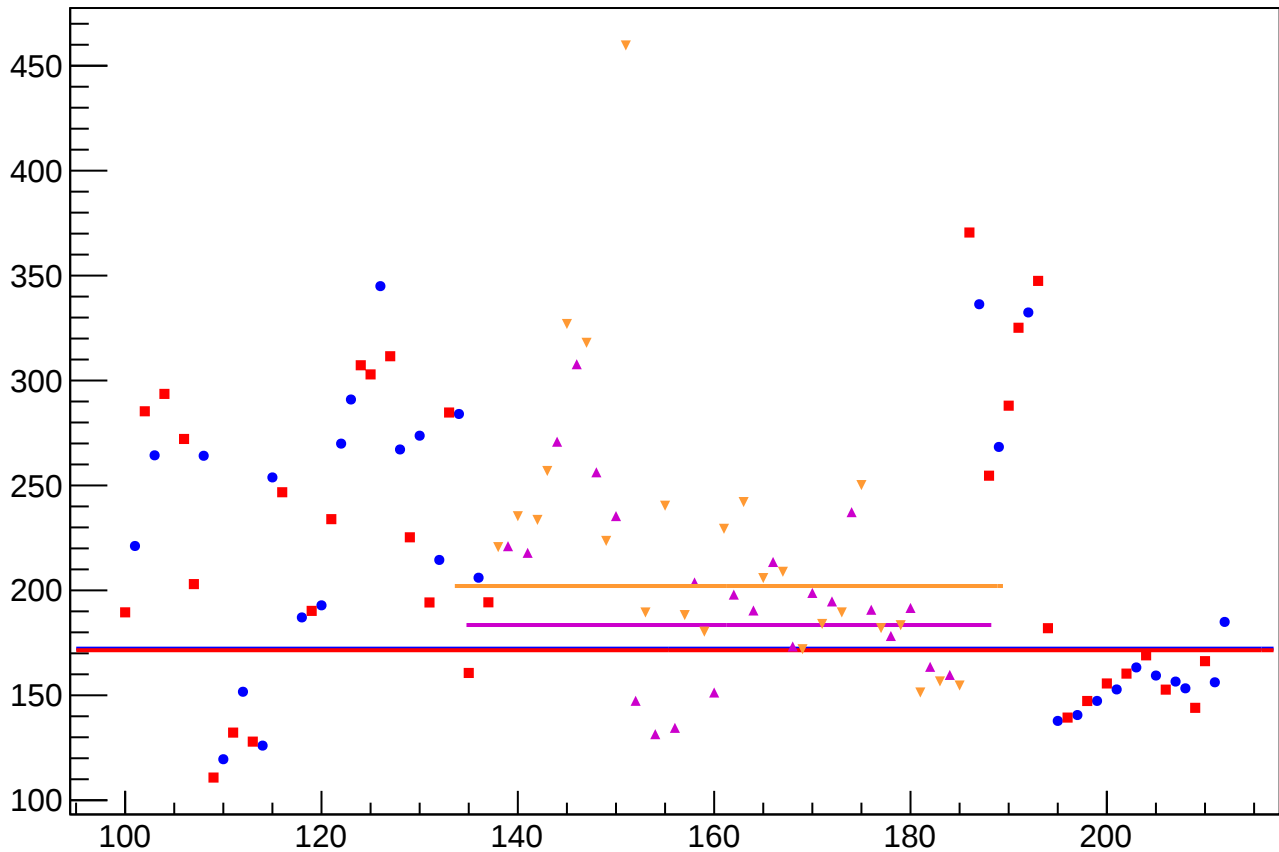
Right: -58.157 ± 31.713 $\chi^2/\text{NDF}: 26.4/62$

In: -12.730 ± 32.148 $\chi^2/\text{NDF}: 25.7/52$

Out: -15.967 ± 32.971 $\chi^2/\text{NDF}: 19.8/57$

All: -14.308 ± 23.017 $\chi^2/\text{NDF}: 45.5/110$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.231+/-0.032 χ^2/NDF : 2114385.3/29

Left Out: 202.081+/-0.034 χ^2/NDF :1692787.9/24

Right Out: 171.474+/-0.032 χ^2/NDF : 2767958.3/32

Left In: 183.498+/-0.033 χ^2/NDF :1483383.4/22

Left: 192.240+/-0.024 χ^2/NDF : 3329846.6/47

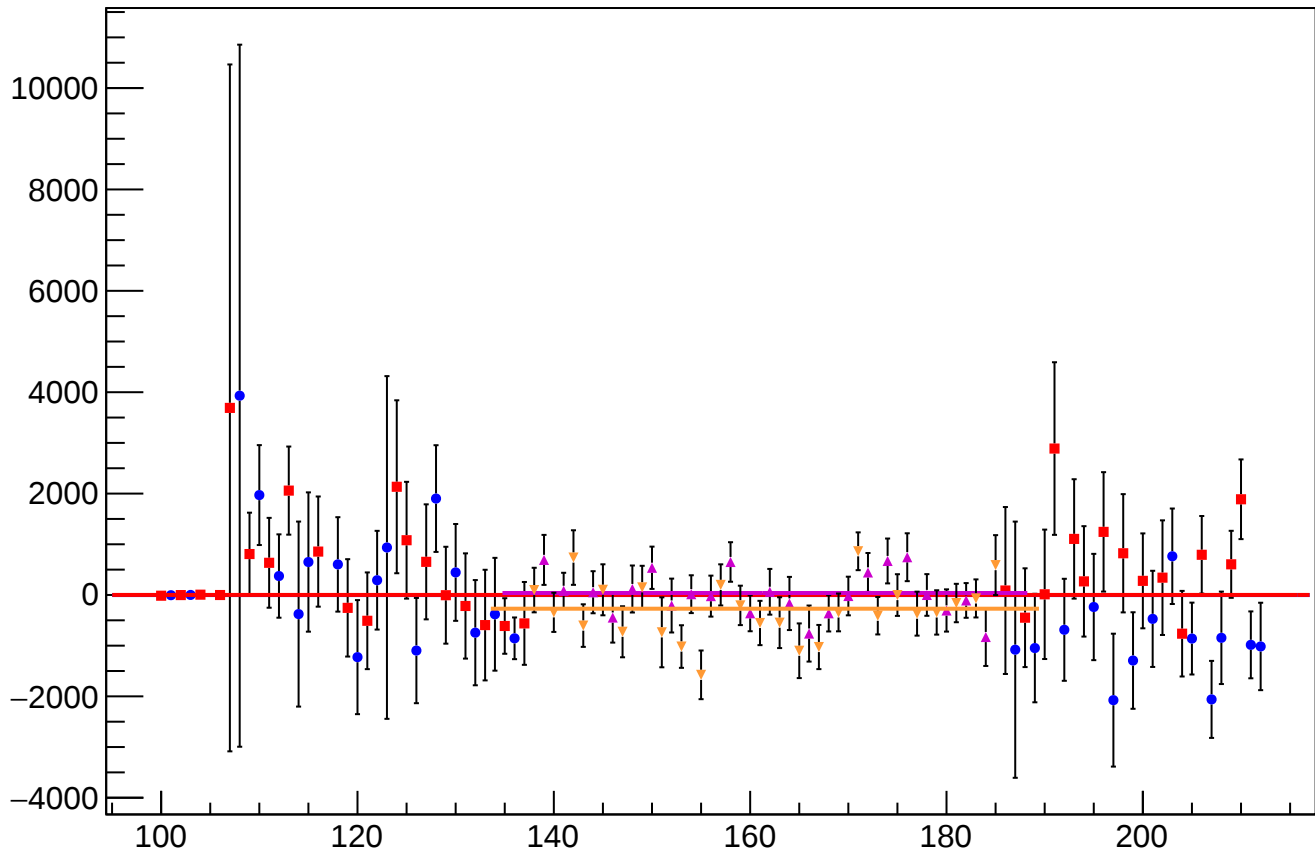
Right: 171.851+/-0.022 χ^2/NDF : 4882628.2/62

In: 177.739+/-0.023 χ^2/NDF :3659157.1/52

Out: 185.455+/-0.023 χ^2/NDF :4888386.0/57

All: 181.499+/-0.016 χ^2/NDF : 8603705.4/110

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.601 $\pm$ 2.251 χ^2/NDF : 37.6/29

Left Out: -270.969 $\pm$ 86.967 χ^2/NDF :38.1/24

Right Out: 0.763 $\pm$ 2.111 χ^2/NDF : 33.4/32

Left In: 39.078 $\pm$ 87.769 χ^2/NDF :20.3/22

Left: -117.369 $\pm$ 61.777 χ^2/NDF : 64.7/47

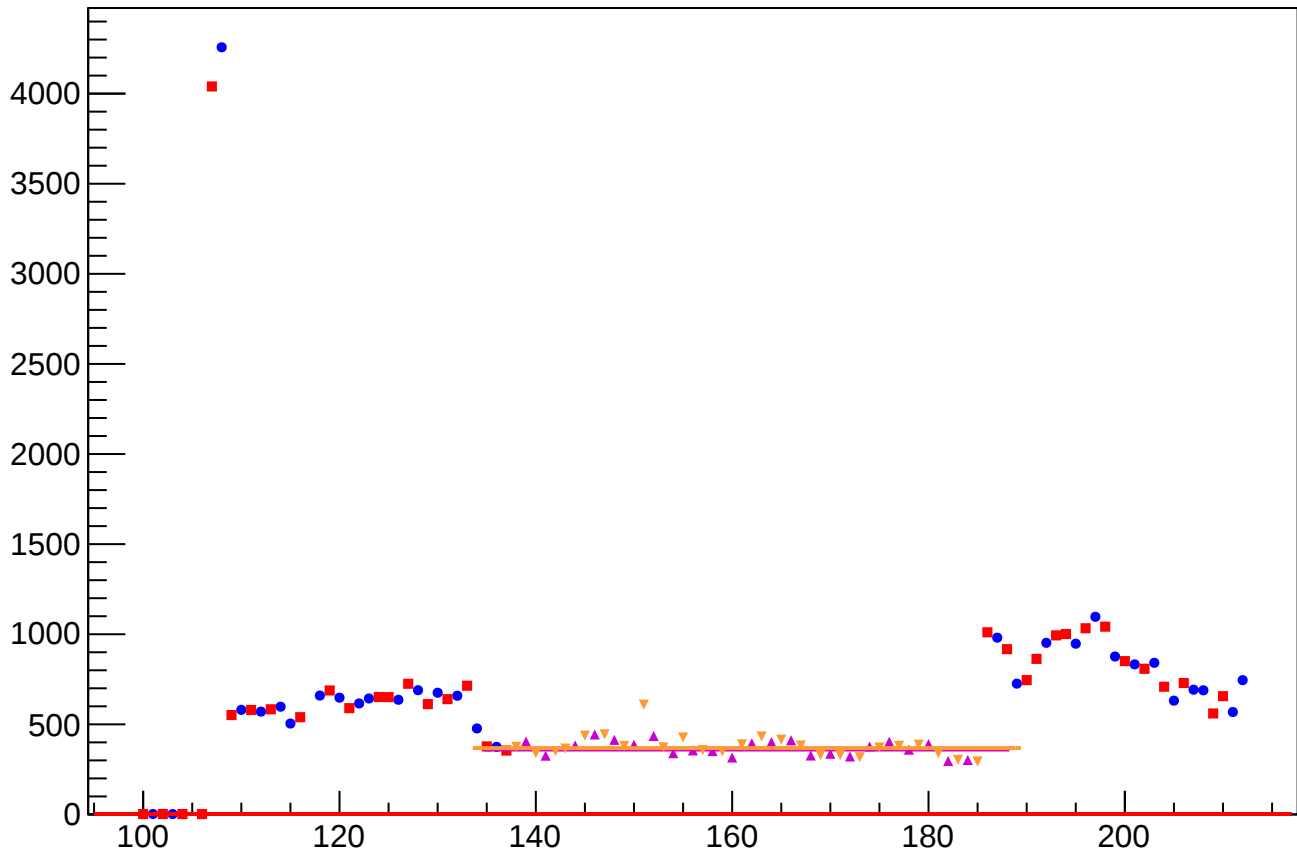
Right: -0.343 $\pm$ 1.540 χ^2/NDF : 71.6/62

In: -1.575 $\pm$ 2.251 χ^2/NDF :58.1/52

Out: 0.603 $\pm$ 2.110 χ^2/NDF :81.3/57

All: -0.416 $\pm$ 1.539 χ^2/NDF : 139.9/110

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.515 $\pm$ 0.002 χ^2 /NDF: 28940704.5/29

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.487 $\pm$ 0.001 χ^2 /NDF: 29695105.5/32

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

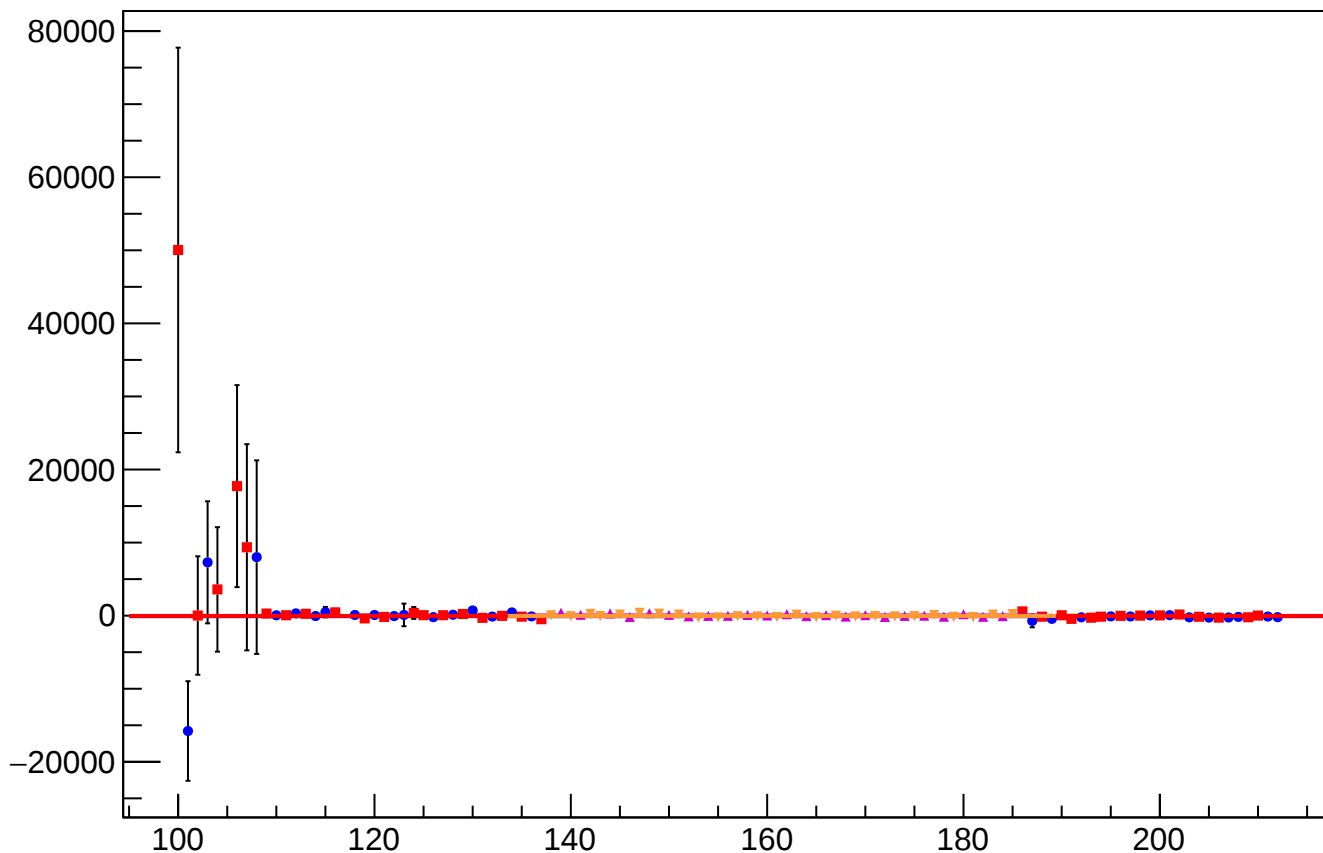
Right: 2.500 $\pm$ 0.001 χ^2 /NDF: 58635978.4/62

In: 2.751 $\pm$ 0.002 χ^2 /NDF: 62590988.3/52

Out: 2.702 $\pm$ 0.001 χ^2 /NDF: 65701875.2/57

All: 2.725 $\pm$ 0.001 χ^2 /NDF: 128293350.9/110

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -68.463+/-48.995 χ^2/NDF : 21.4/29

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: -37.543+/-49.558 χ^2/NDF : 21.1/32

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

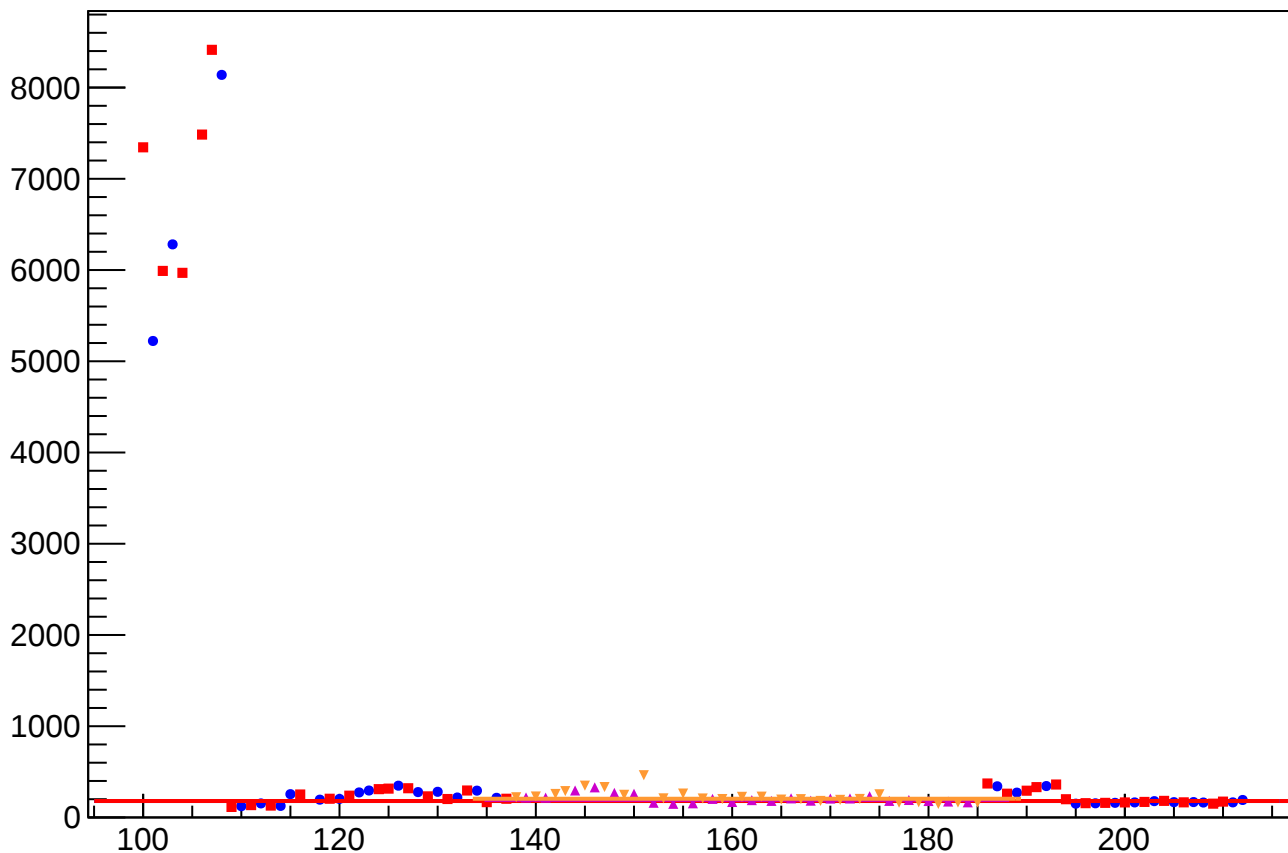
Right: -53.179+/-34.842 χ^2/NDF : 42.7/62

In: -19.305+/-34.348 χ^2/NDF : 32.6/52

Out: -37.778+/-35.067 χ^2/NDF : 30.4/57

All: -28.350+/-24.538 χ^2/NDF : 63.1/110

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.041 $\pm$ 0.035 χ^2/NDF : 4538356.5/29

Left Out: 205.027 $\pm$ 0.035 χ^2/NDF :1956045.1/24

Right Out: 180.382 $\pm$ 0.035 χ^2/NDF : 5416940.4/32

Left In: 193.405 $\pm$ 0.034 χ^2/NDF :1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2/NDF : 3184695.4/47

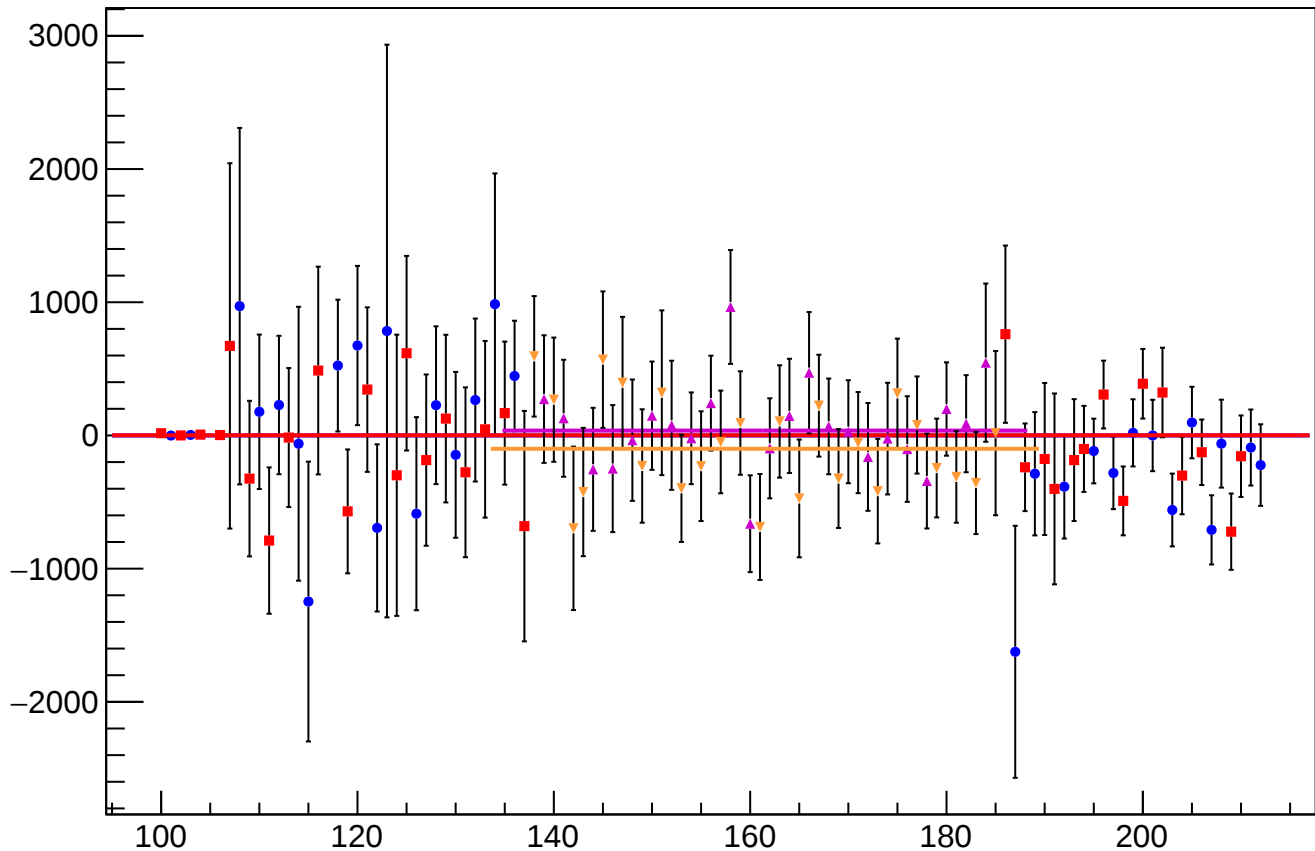
Right: 180.209 $\pm$ 0.025 χ^2/NDF : 9955344.6/62

In: 186.837 $\pm$ 0.024 χ^2/NDF :5786189.7/52

Out: 192.687 $\pm$ 0.025 χ^2/NDF :7619945.5/57

All: 189.701 $\pm$ 0.017 χ^2/NDF : 13434541.4/117

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.236 ± 1.736 χ^2/NDF : 28.1/29

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.286 ± 1.622 χ^2/NDF : 28.1/32

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

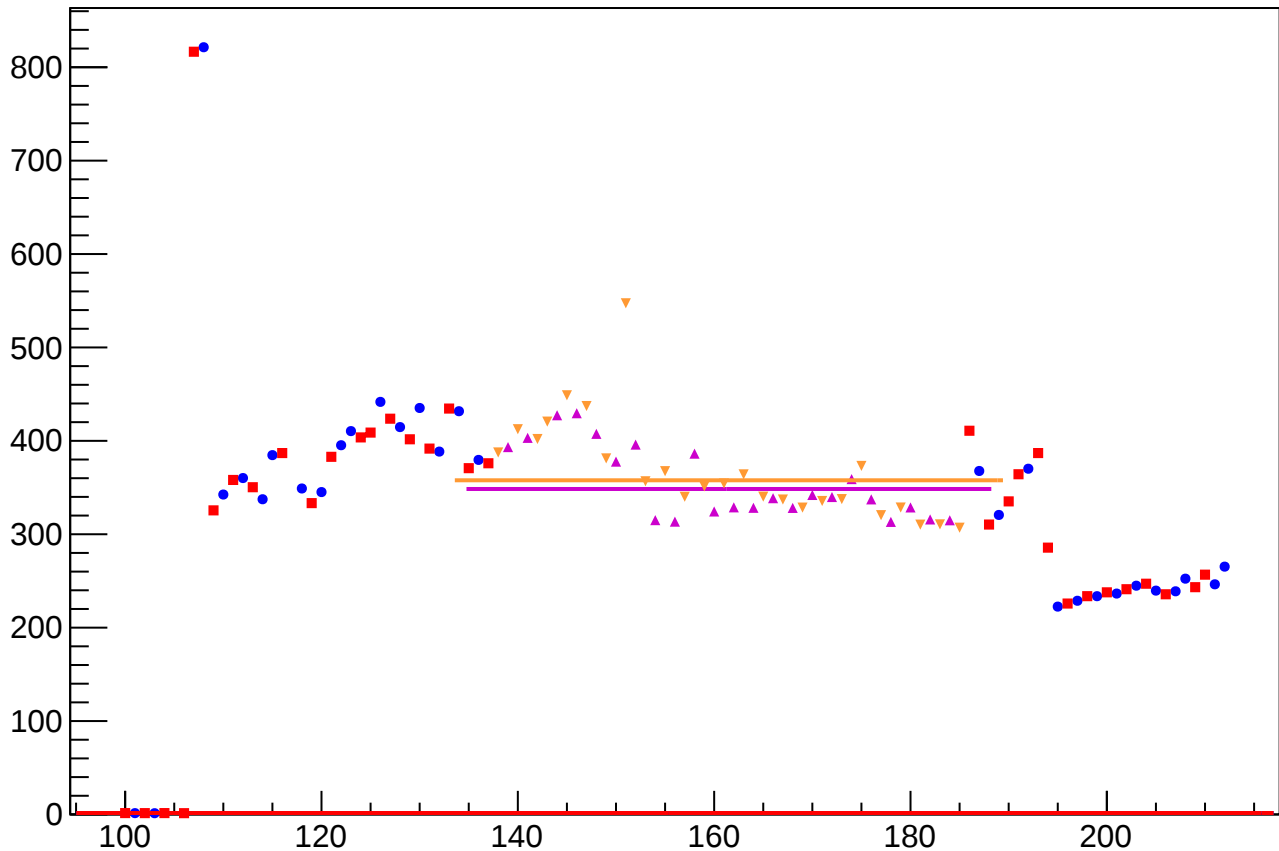
Right: 0.576 ± 1.185 χ^2/NDF : 56.6/62

In: -0.220 ± 1.736 χ^2/NDF : 41.8/52

Out: 1.248 ± 1.622 χ^2/NDF : 45.2/57

All: 0.563 ± 1.185 χ^2/NDF : 87.4/110

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.562 $\pm$ 0.001 χ^2 /NDF: 29202246.6/29

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.543 $\pm$ 0.001 χ^2 /NDF: 29399786.0/32

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF:360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

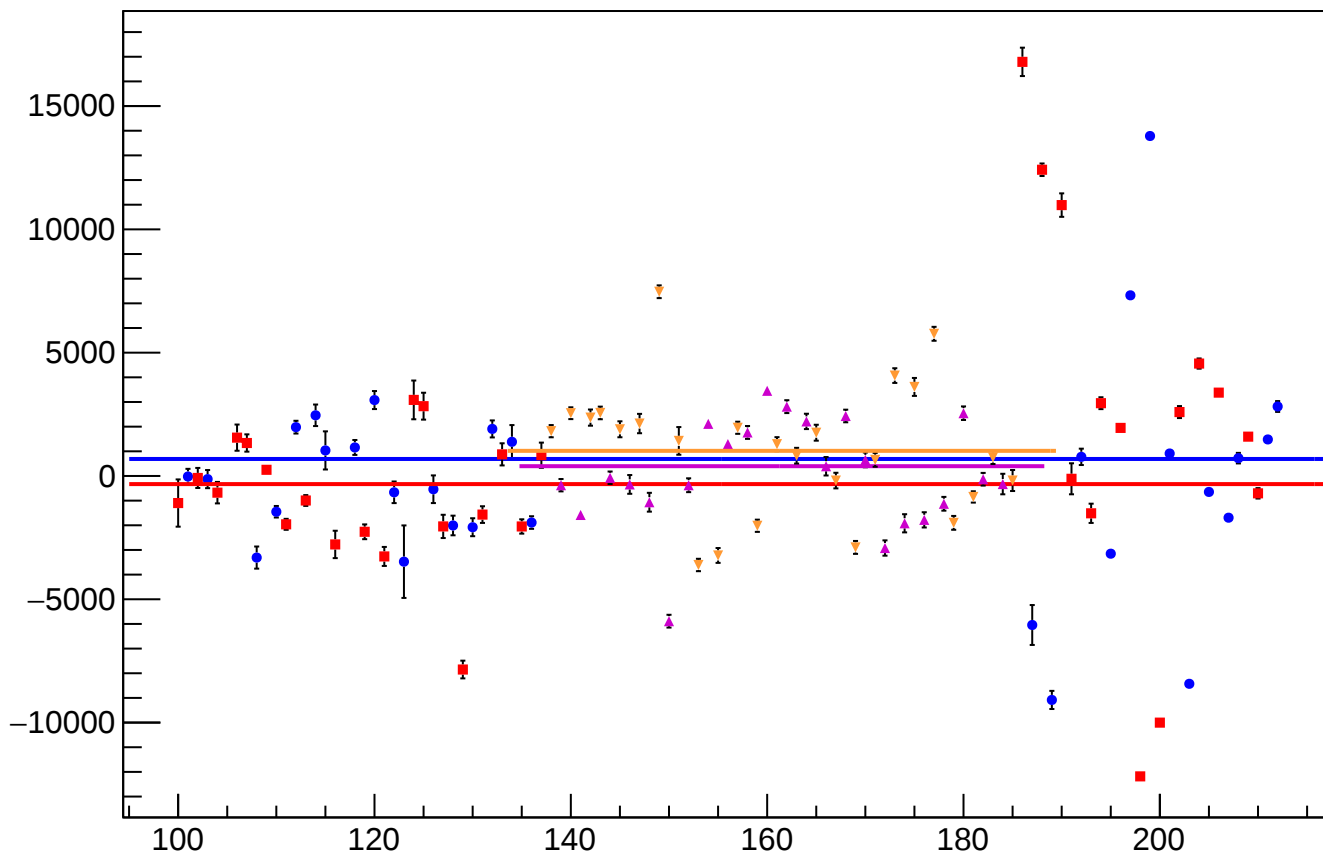
Right: 1.552 $\pm$ 0.001 χ^2 /NDF: 58602159.3/62

In: 1.708 $\pm$ 0.001 χ^2 /NDF:63116933.1/52

Out: 1.675 $\pm$ 0.001 χ^2 /NDF:65740582.6/57

All: 1.691 $\pm$ 0.001 χ^2 /NDF: 128857889.5/110

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 689.578+/-48.747 χ^2/NDF : 10944.7/29

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: -329.487+/-48.329 χ^2/NDF : 13329.9/32

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

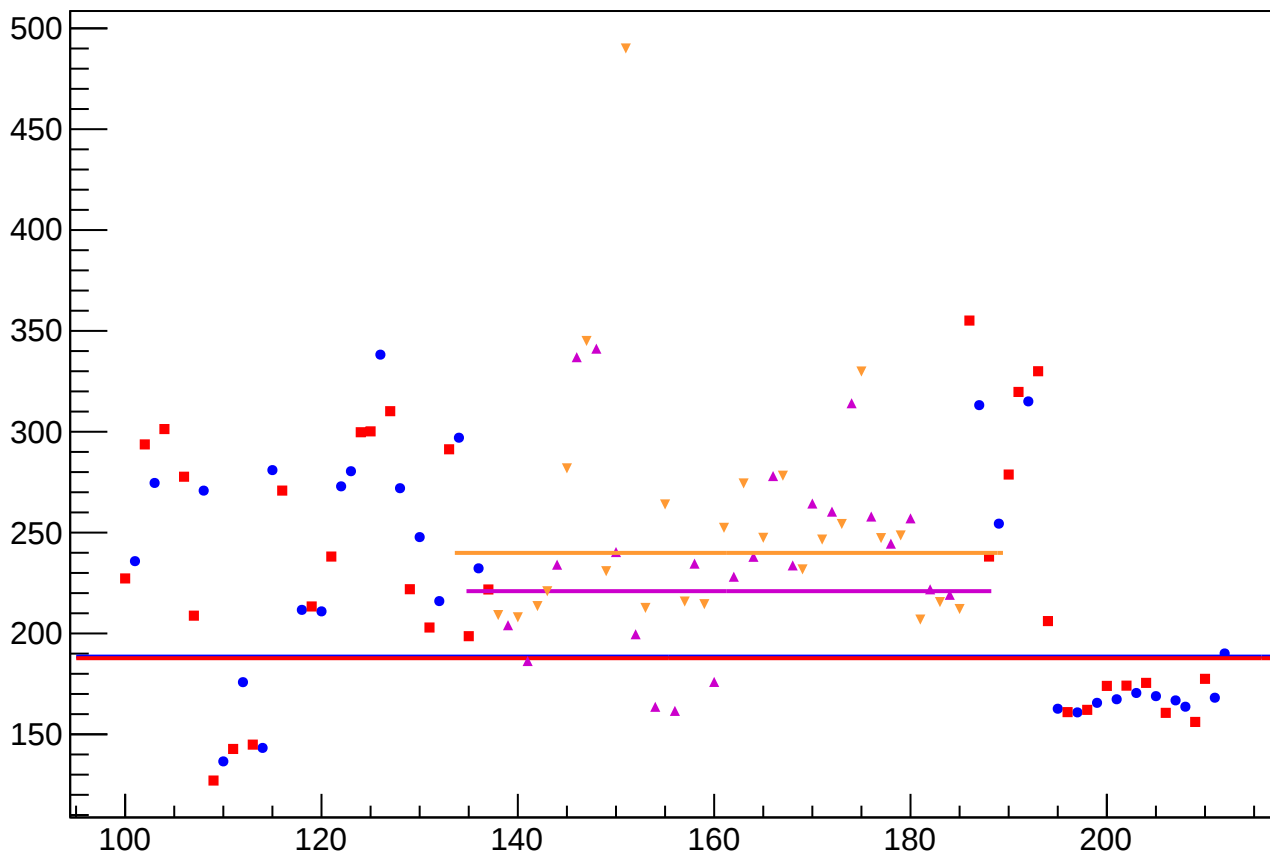
Right: 175.658+/-34.320 χ^2/NDF : 24495.0/62

In: 560.924+/-36.507 χ^2/NDF : 12541.6/52

Out: 229.867+/-36.970 χ^2/NDF : 15962.9/57

All: 397.484+/-25.976 χ^2/NDF : 28545.1/110

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.522 $\pm$ 0.034 χ^2 /NDF: 1545636.8/29

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 187.727 $\pm$ 0.034 χ^2 /NDF: 2121238.1/32

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

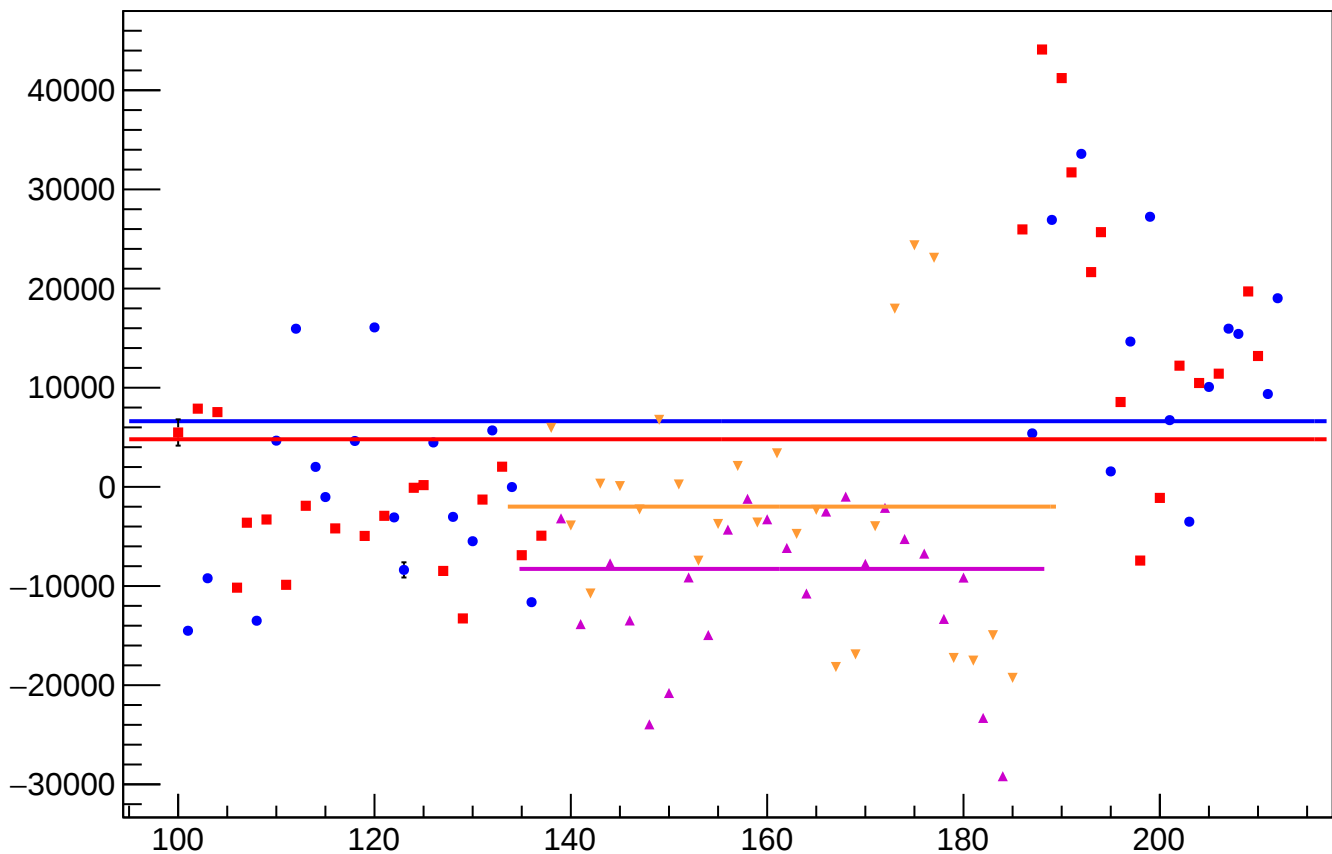
Right: 188.121 $\pm$ 0.024 χ^2 /NDF: 3667143.1/62

In: 202.772 $\pm$ 0.026 χ^2 /NDF:3262508.7/52

Out: 209.386 $\pm$ 0.026 χ^2 /NDF:4090417.9/57

All: 206.037 $\pm$ 0.018 χ^2 /NDF: 7385341.8/110

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6622.962+/-40.682 χ^2/NDF : 93694.9/29

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4800.731+/-39.257 χ^2/NDF : 140649.7/32

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

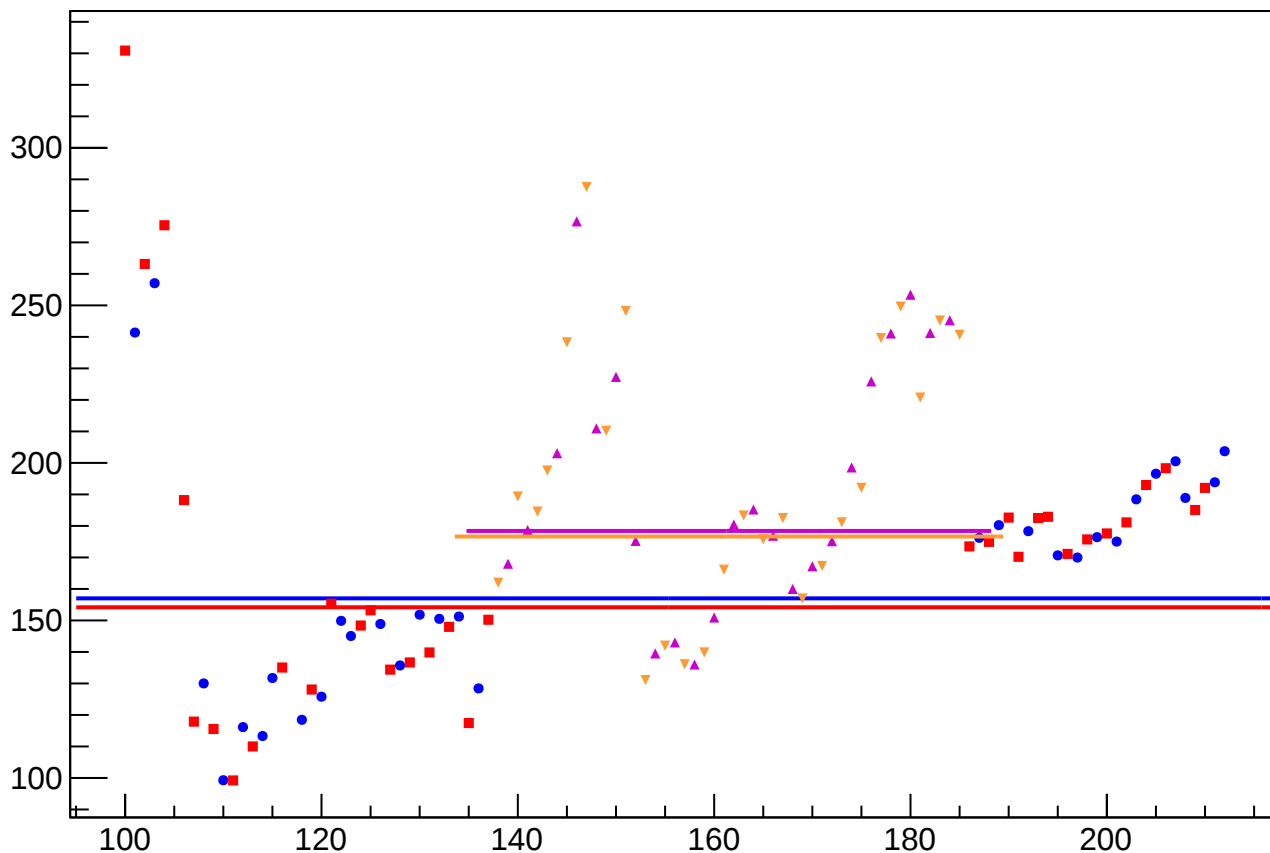
Right: 5679.361+/-28.249 χ^2/NDF : 235383.6/62

In: -191.922+/-29.964 χ^2/NDF : 177902.6/52

Out: 1667.696+/-28.814 χ^2/NDF : 218225.6/57

All: 774.265+/-20.769 χ^2/NDF : 398129.3/110

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 157.009 ± 0.029 χ^2/NDF : 1431781.2/29

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 154.176 ± 0.028 χ^2/NDF : 1631280.8/32

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

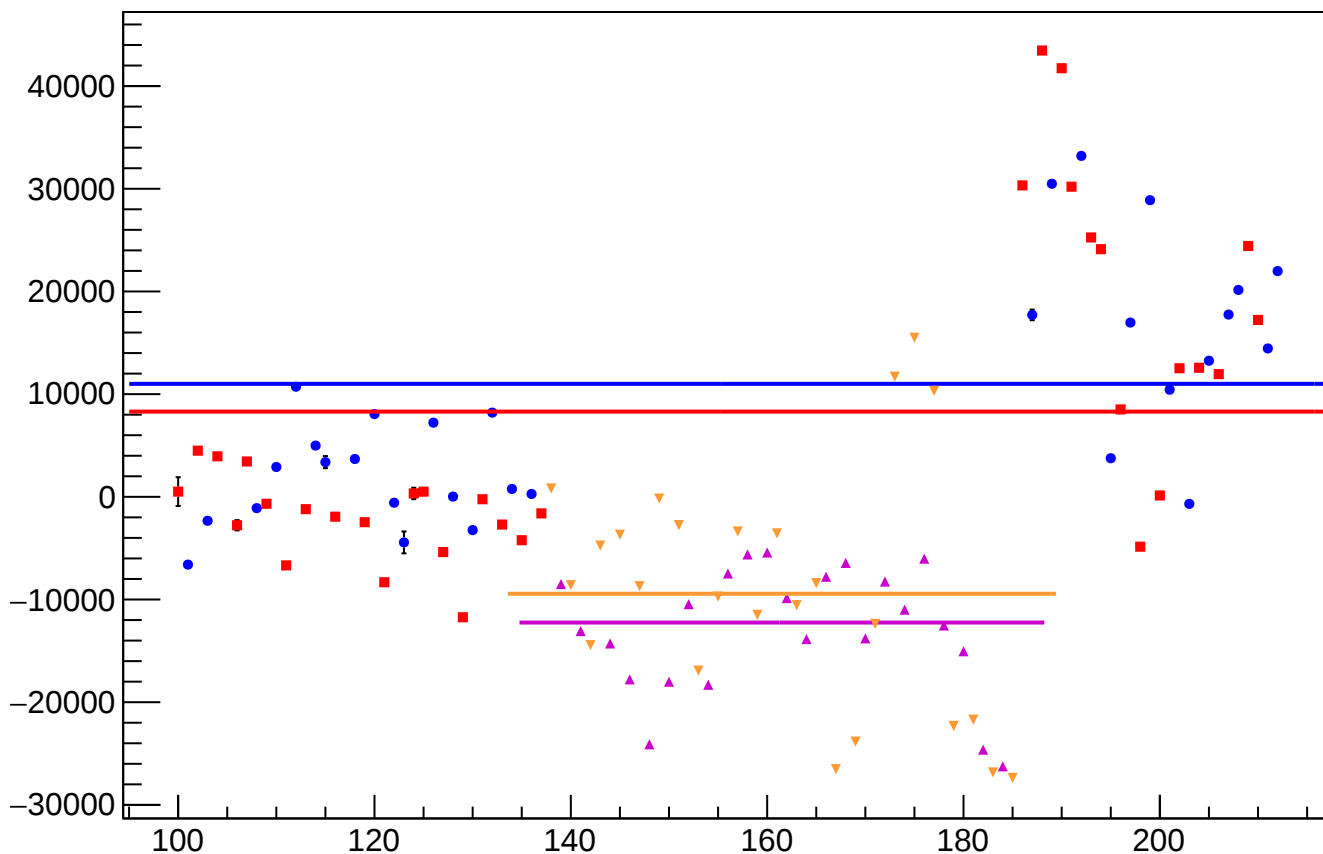
Right: 155.542 ± 0.020 χ^2/NDF : 3068084.3/62

In: 166.801 ± 0.021 χ^2/NDF : 2978810.9/52

Out: 164.538 ± 0.020 χ^2/NDF : 3484435.0/57

All: 165.625 ± 0.015 χ^2/NDF : 6469175.2/110

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11002.209 $\pm$ 45.159

χ^2/NDF : 55126.9/29

Left: -10889.638 $\pm$ 31.621 χ^2/NDF : 80800.7/47

Right: 9605.547 $\pm$ 31.394 χ^2/NDF : 169332.4/62

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

In: -936.772 $\pm$ 31.494 χ^2/NDF : 207824.3/52

Out: -199.576 $\pm$ 31.520 χ^2/NDF : 253599.3/57

Right Out: 8299.174 $\pm$ 43.675

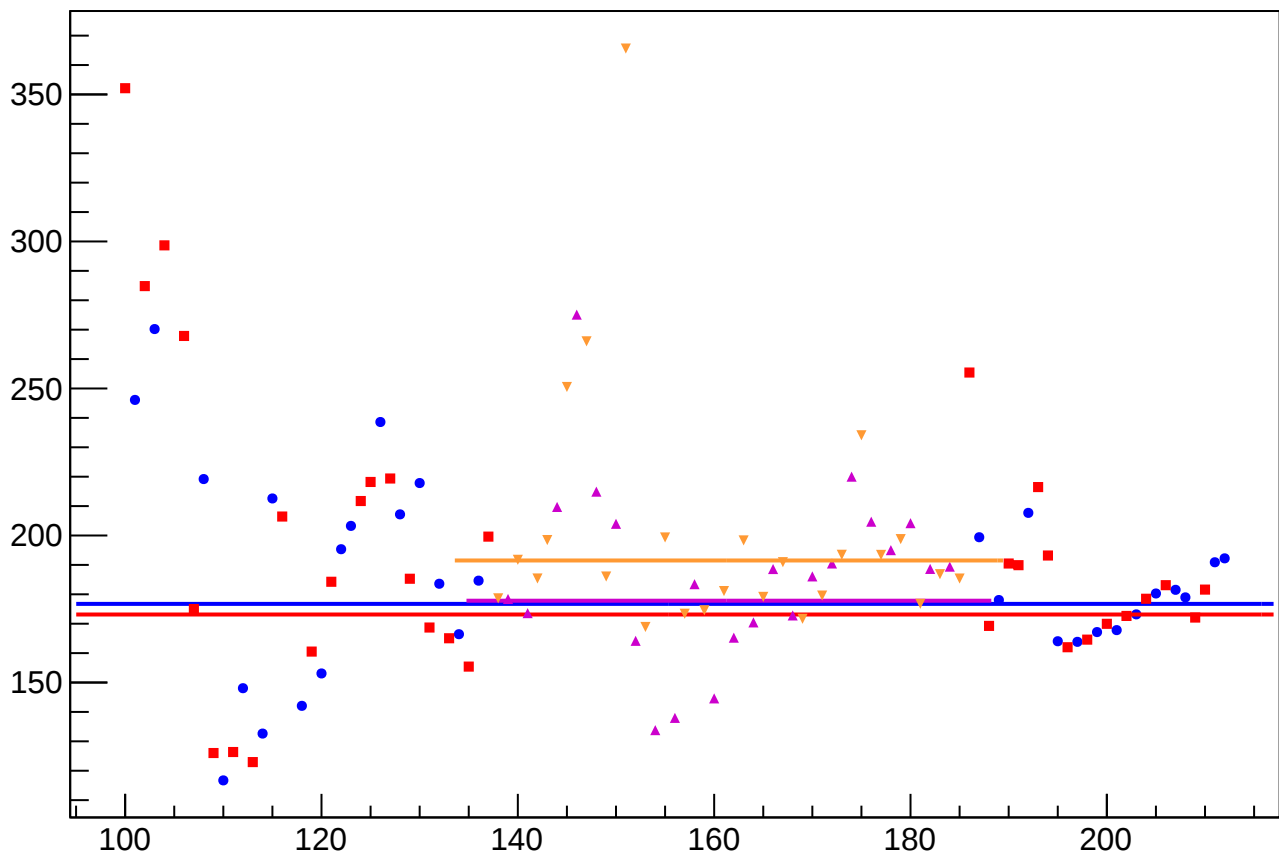
χ^2/NDF : 112354.3/32

Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: -568.474 $\pm$ 22.279 χ^2/NDF : 461697.3/111

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.743+/-0.032 χ^2/NDF : 781849.5/29

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.132+/-0.031 χ^2/NDF : 1134860.5/32

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

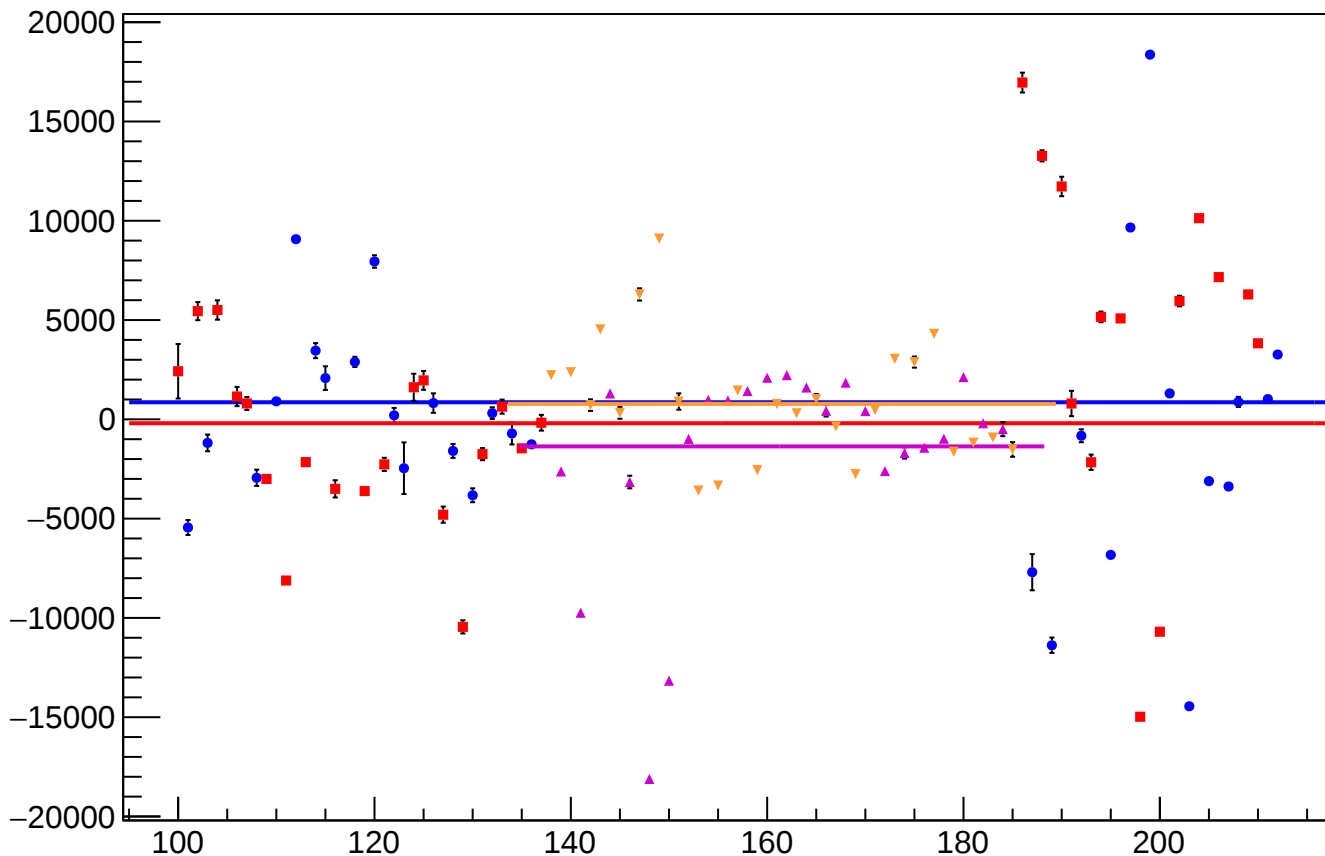
Right: 174.877+/-0.022 χ^2/NDF : 1923318.8/62

In: 177.297+/-0.022 χ^2/NDF : 1644929.6/52

Out: 181.936+/-0.022 χ^2/NDF : 2031742.8/57

All: 179.615+/-0.016 χ^2/NDF : 3698355.6/110

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 859.868 ± 50.602 $\chi^2/\text{NDF}: 20439.0/29$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -196.651 ± 49.179 $\chi^2/\text{NDF}: 21662.5/32$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

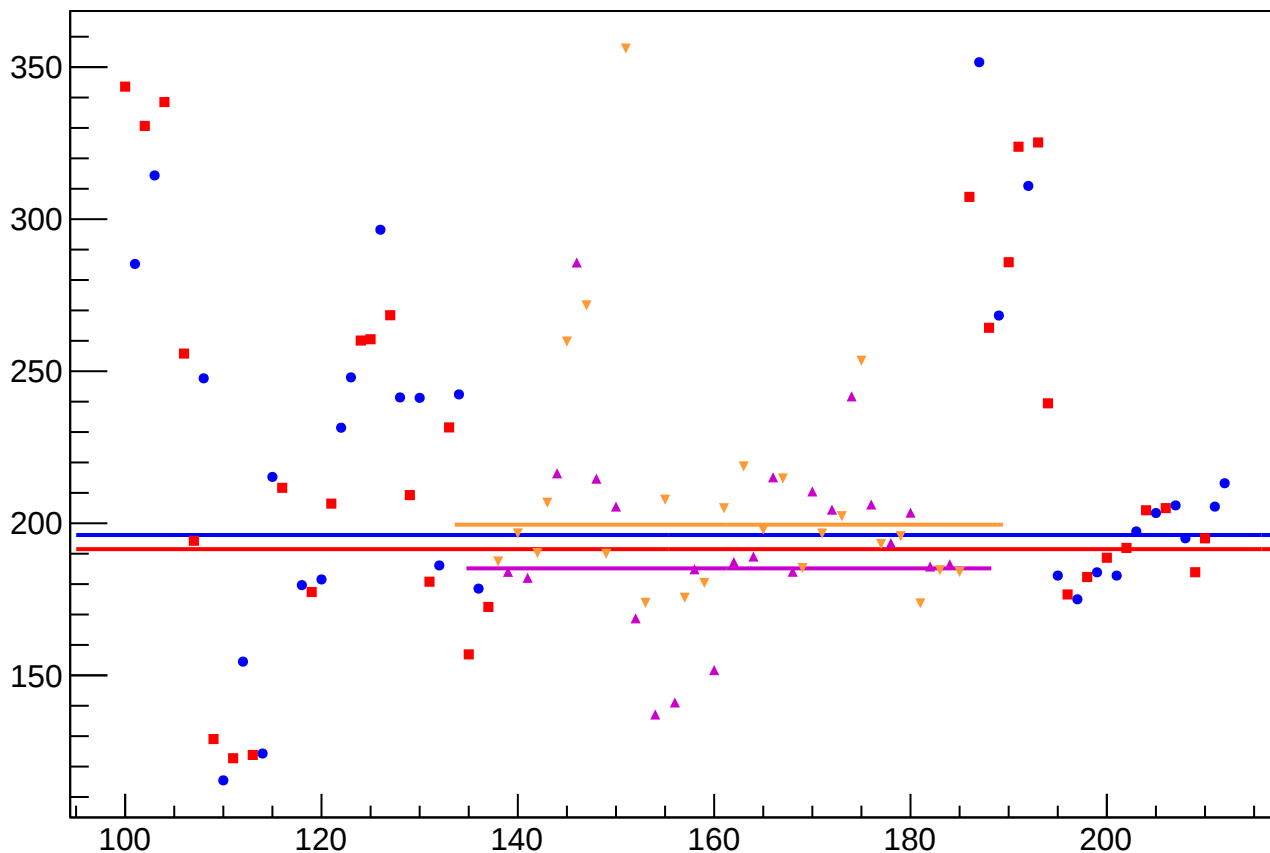
Right: 316.548 ± 35.267 $\chi^2/\text{NDF}: 42325.7/62$

In: -361.874 ± 33.959 $\chi^2/\text{NDF}: 33132.5/52$

Out: 309.059 ± 34.150 $\chi^2/\text{NDF}: 26127.5/57$

All: -28.285 ± 24.080 $\chi^2/\text{NDF}: 59454.1/110$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 196.143 ± 0.036 $\chi^2/\text{NDF}: 1429138.2/29$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 191.495 ± 0.035 $\chi^2/\text{NDF}: 2145201.1/32$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

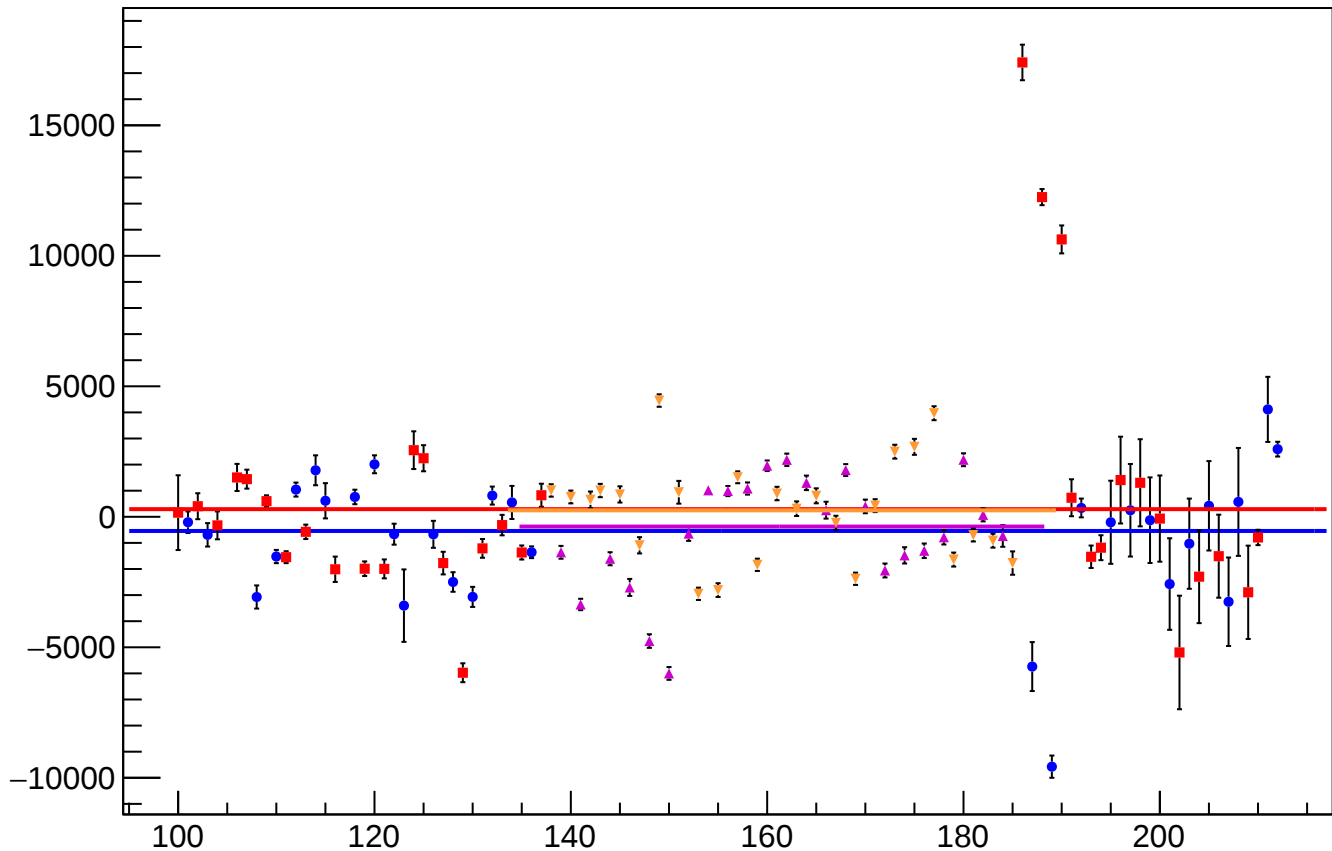
Right: 193.753 ± 0.025 $\chi^2/\text{NDF}: 3583015.0/62$

In: 190.112 ± 0.024 $\chi^2/\text{NDF}: 2363571.9/52$

Out: 195.664 ± 0.024 $\chi^2/\text{NDF}: 2902316.3/57$

All: 192.873 ± 0.017 $\chi^2/\text{NDF}: 5292469.3/110$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -542.837 ± 79.807 χ^2/NDF : 913.3/29

Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24

Right Out: 293.017 ± 72.609 χ^2/NDF : 3190.5/32

Left In: -374.122 ± 52.049 χ^2/NDF : 1801.0/22

Left: -72.006 ± 37.325 χ^2/NDF : 3225.5/47

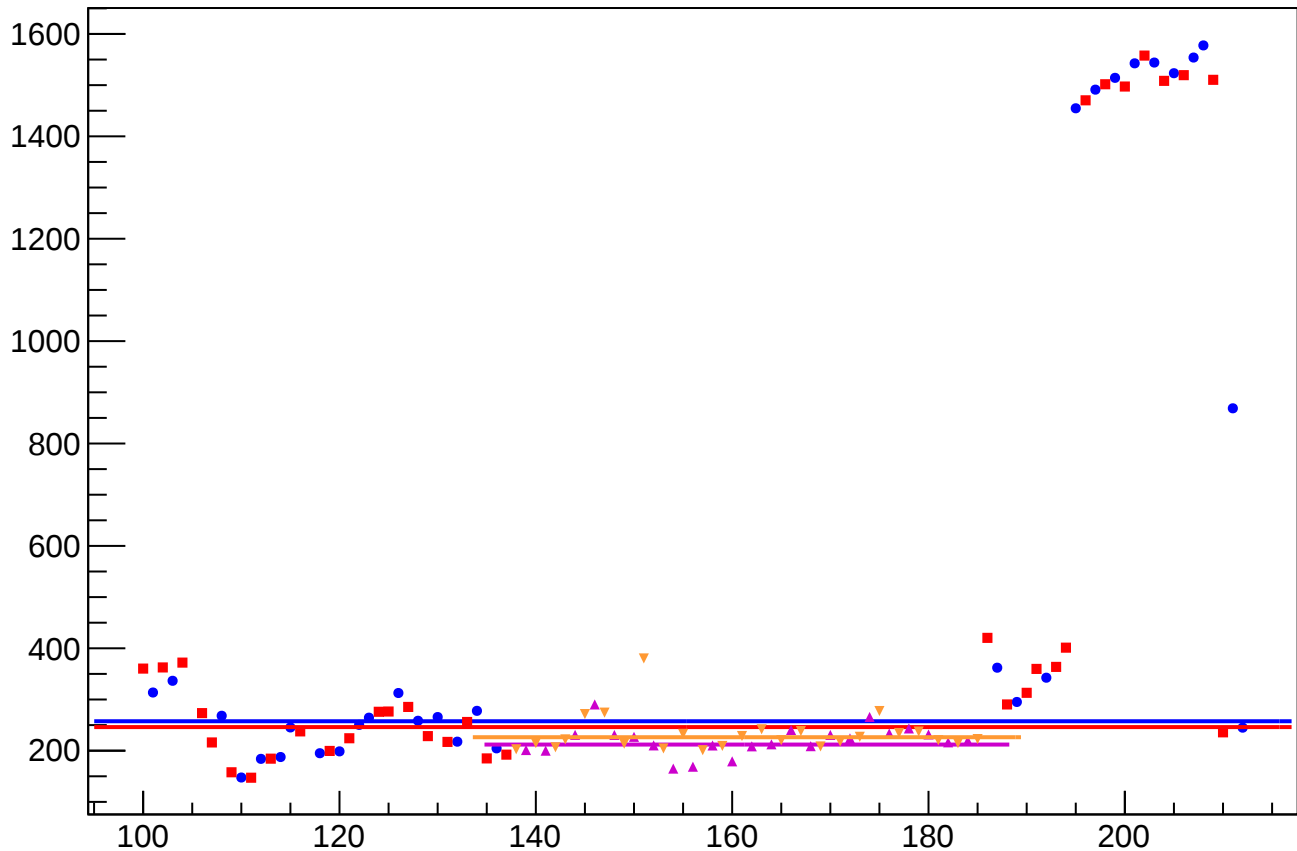
Right: -85.520 ± 53.707 χ^2/NDF : 4163.9/62

In: -424.469 ± 43.597 χ^2/NDF : 2717.5/52

Out: 263.760 ± 43.099 χ^2/NDF : 4545.9/57

All: -76.407 ± 30.650 χ^2/NDF : 7389.4/110

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.520 $\pm$ 0.056 χ^2 /NDF: 10145731.7/29

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 246.105 $\pm$ 0.051 χ^2 /NDF: 9273046.4/32

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

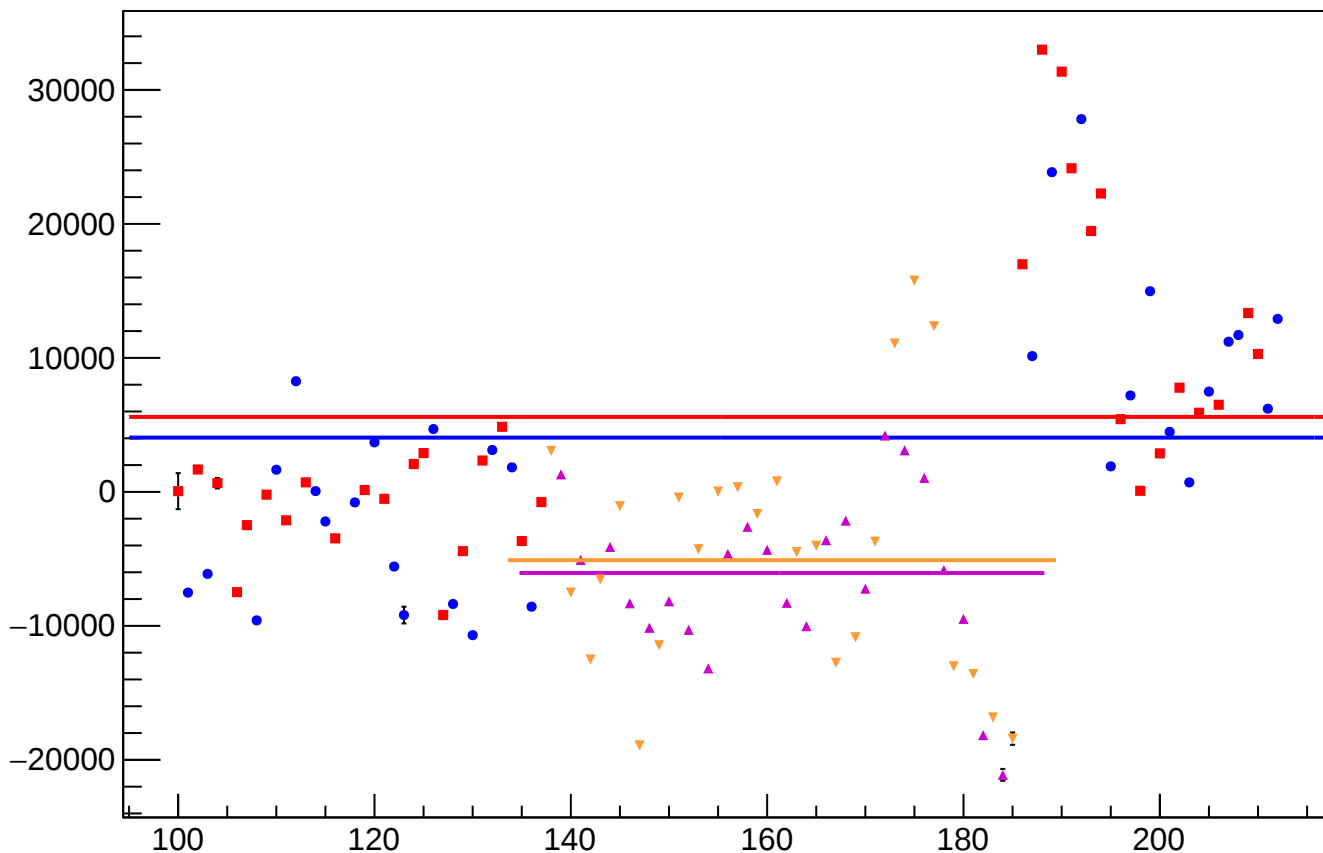
Right: 251.275 $\pm$ 0.038 χ^2 /NDF: 19441166.0/62

In: 225.563 $\pm$ 0.031 χ^2 /NDF: 11187172.9/52

Out: 233.292 $\pm$ 0.030 χ^2 /NDF: 9890248.6/57

All: 229.472 $\pm$ 0.022 χ^2 /NDF: 21109213.6/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4050.714+/-34.584

χ^2/NDF : 79411.8/29

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5593.956+/-33.125

χ^2/NDF : 103461.7/32

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4855.570+/-23.922

χ^2/NDF : 183912.0/62

In: -941.296+/-24.600

χ^2/NDF : 139174.8/52

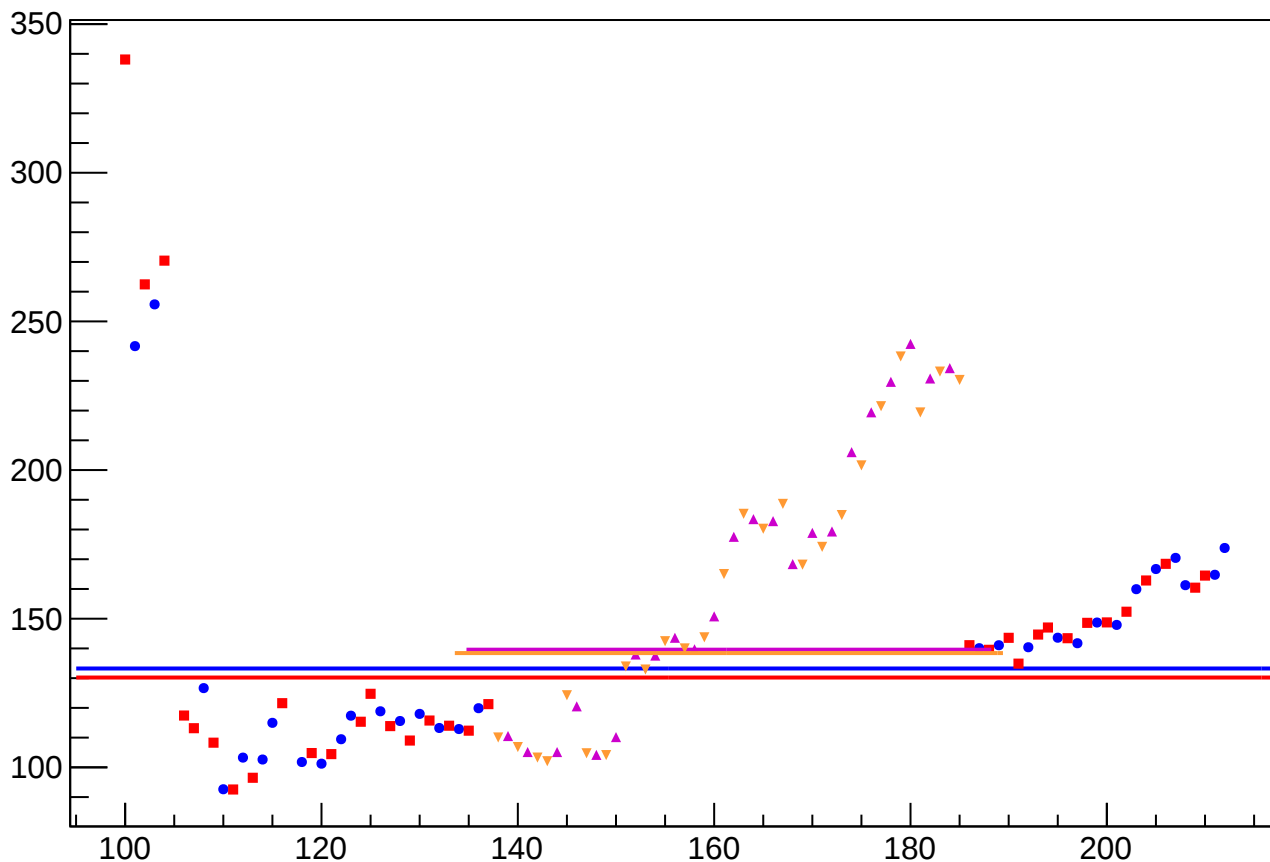
Out: 341.831+/-23.625

χ^2/NDF : 209021.7/57

All: -273.805+/-17.039

χ^2/NDF : 349611.8/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 133.251 ± 0.024 χ^2/NDF : 1431895.6/29

Left Out: 138.436 ± 0.024 χ^2/NDF : 2549435.8/24

Right Out: 130.210 ± 0.023 χ^2/NDF : 1480201.6/32

Left In: 139.578 ± 0.025 χ^2/NDF : 2413658.9/22

Left: 138.985 ± 0.017 χ^2/NDF : 4964199.7/47

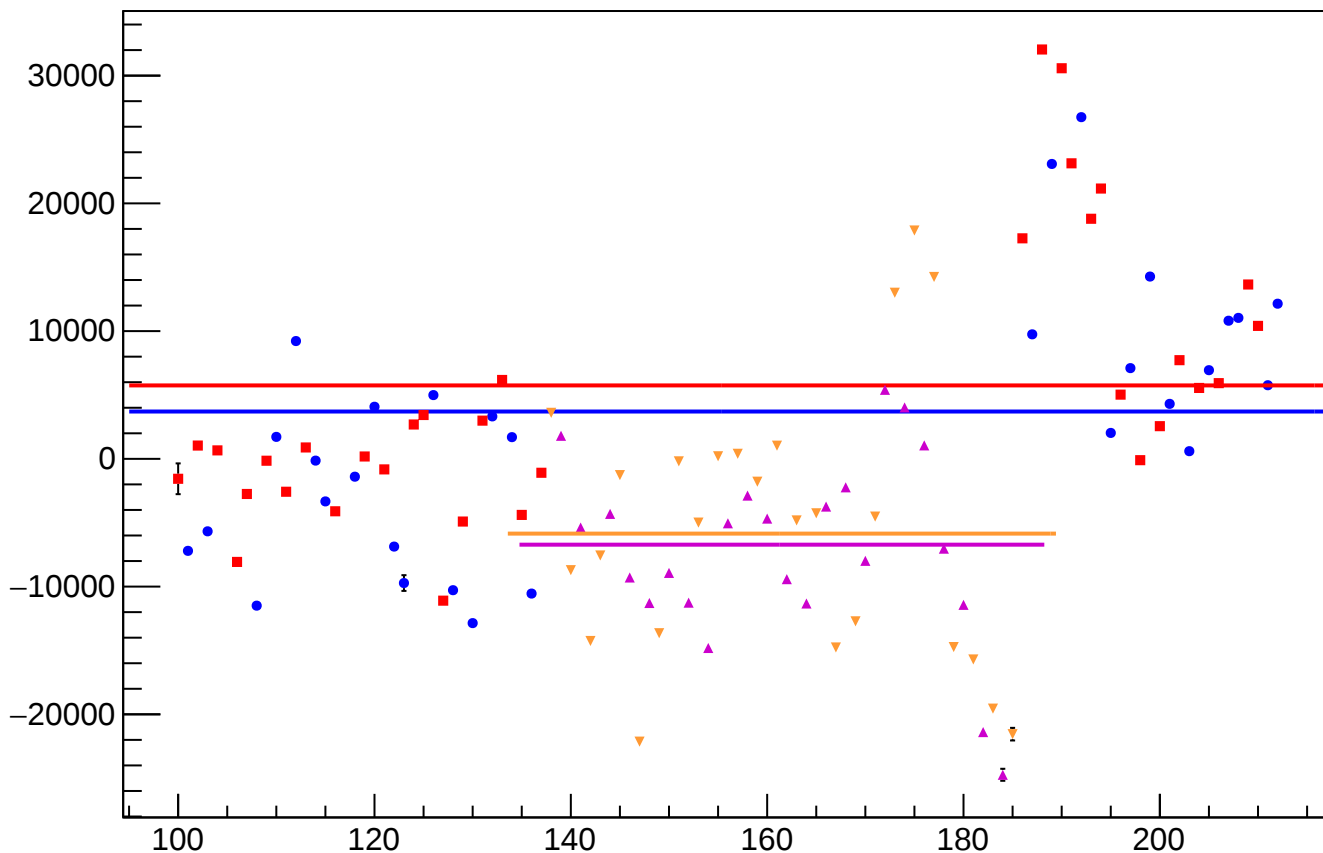
Right: 131.665 ± 0.017 χ^2/NDF : 2920160.9/62

In: 136.377 ± 0.017 χ^2/NDF : 3878623.6/52

Out: 134.252 ± 0.017 χ^2/NDF : 4090231.6/57

All: 135.271 ± 0.012 χ^2/NDF : 7976618.5/110

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3705.569 ± 34.583

χ^2/NDF : 84501.9/29

Left Out: -5852.544 ± 35.880

χ^2/NDF : 63411.4/24

Right Out: 5748.676 ± 33.293

χ^2/NDF : 104140.5/32

Left In: -6718.475 ± 37.276

χ^2/NDF : 20934.3/22

Left: -6268.993 ± 25.850

χ^2/NDF : 84625.8/47

Right: 4765.926 ± 23.985

χ^2/NDF : 190453.9/62

In: -1116.366 ± 25.352

χ^2/NDF : 147464.2/52

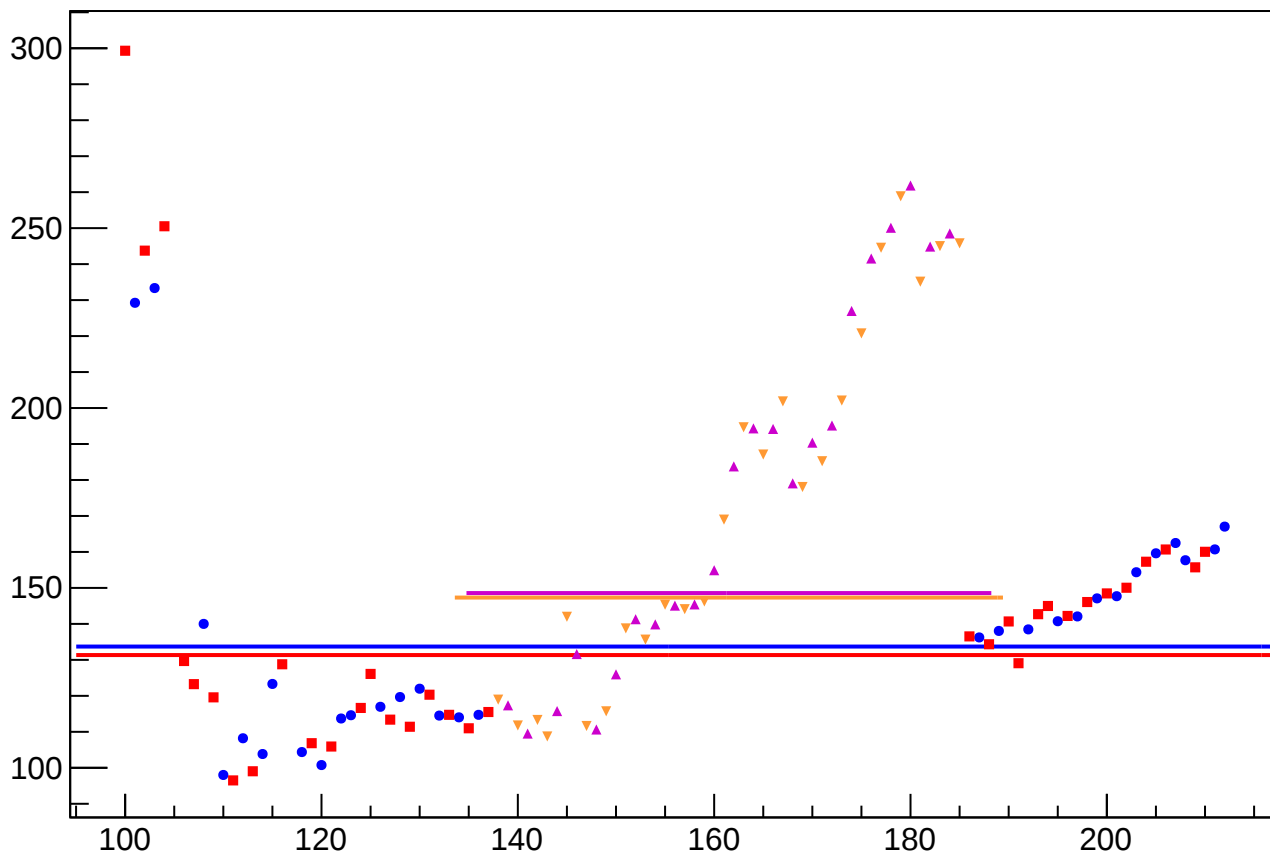
Out: 381.271 ± 24.405

χ^2/NDF : 223728.9/57

All: -339.048 ± 17.582

χ^2/NDF : 373004.4/111

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.702 $\pm$ 0.024 χ^2 /NDF: 1135040.7/29

Left Out: 147.317 $\pm$ 0.025 χ^2 /NDF: 2511679.9/24

Right Out: 131.338 $\pm$ 0.024 χ^2 /NDF: 1155933.7/32

Left In: 148.569 $\pm$ 0.026 χ^2 /NDF: 2393185.0/22

Left: 147.919 $\pm$ 0.018 χ^2 /NDF: 4906034.9/47

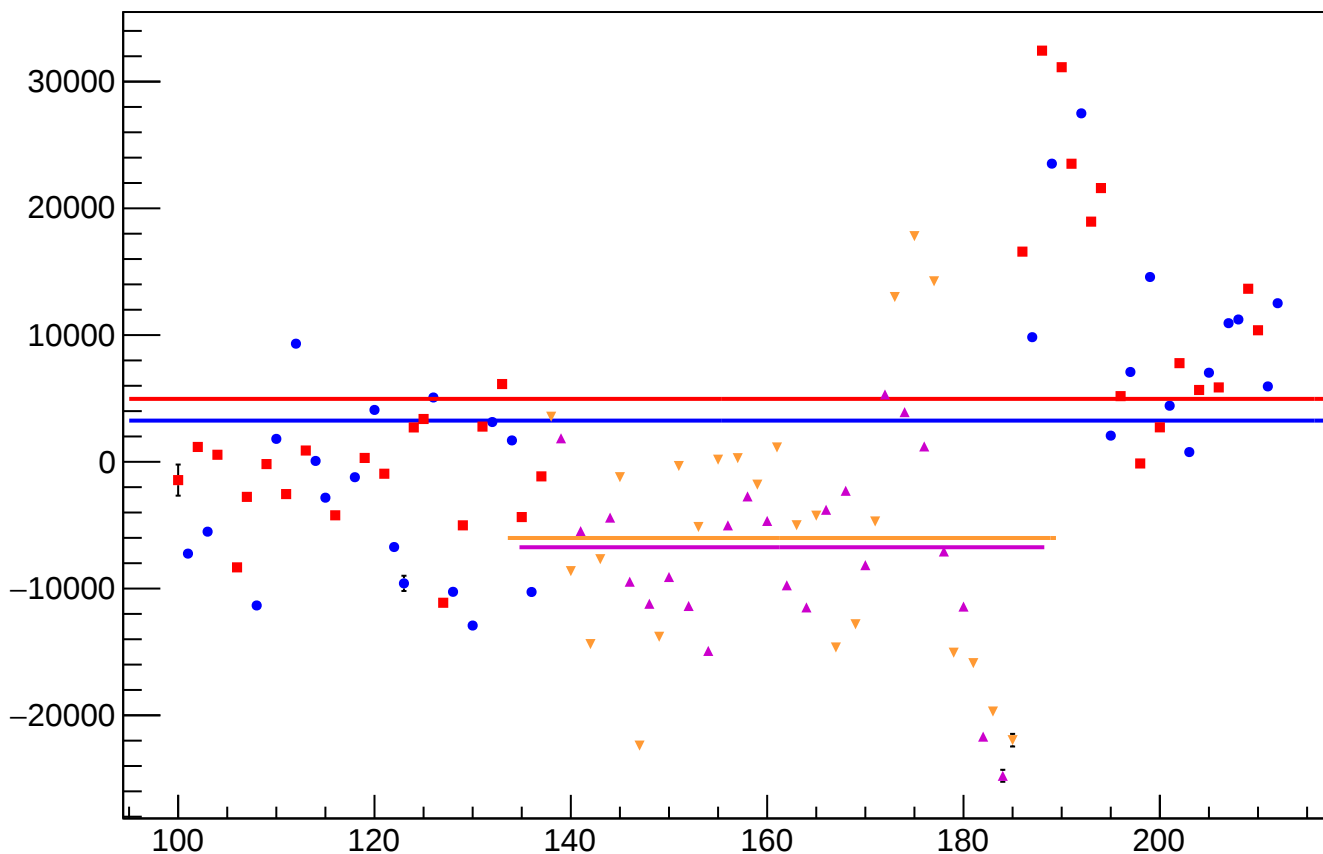
Right: 132.475 $\pm$ 0.017 χ^2 /NDF: 2295824.1/62

In: 140.579 $\pm$ 0.018 χ^2 /NDF: 3699194.9/52

Out: 138.731 $\pm$ 0.017 χ^2 /NDF: 3880763.0/57

All: 139.620 $\pm$ 0.012 χ^2 /NDF: 7585473.2/110

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3252.100 $\pm$ 34.500

χ^2/NDF : 84239.6/29

Left Out: -6009.913 $\pm$ 35.082

χ^2/NDF : 67852.2/24

Right Out: 4965.969 $\pm$ 33.210

χ^2/NDF : 99155.8/32

Left In: -6740.666 $\pm$ 36.379

χ^2/NDF : 22071.8/22

Left: -6362.031 $\pm$ 25.253

χ^2/NDF : 90133.1/47

Right: 4141.691 $\pm$ 23.926

χ^2/NDF : 184676.4/62

In: -1479.534 $\pm$ 25.033

χ^2/NDF : 146035.6/52

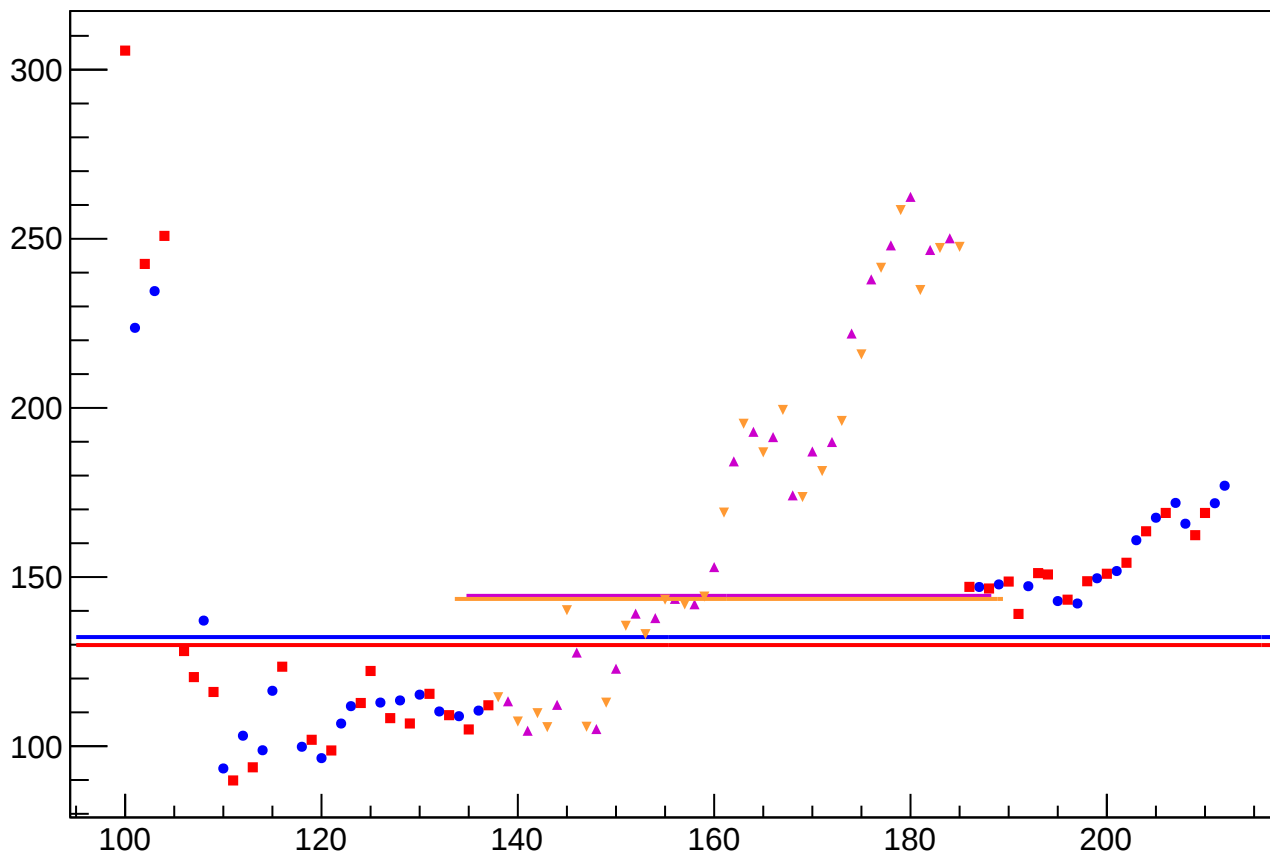
Out: -221.202 $\pm$ 24.118

χ^2/NDF : 218631.1/57

All: -826.933 $\pm$ 17.368

χ^2/NDF : 365977.1/111

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 132.256+/-0.024 χ^2/NDF : 1557010.7/29

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 129.894+/-0.023 χ^2/NDF : 1605621.7/32

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

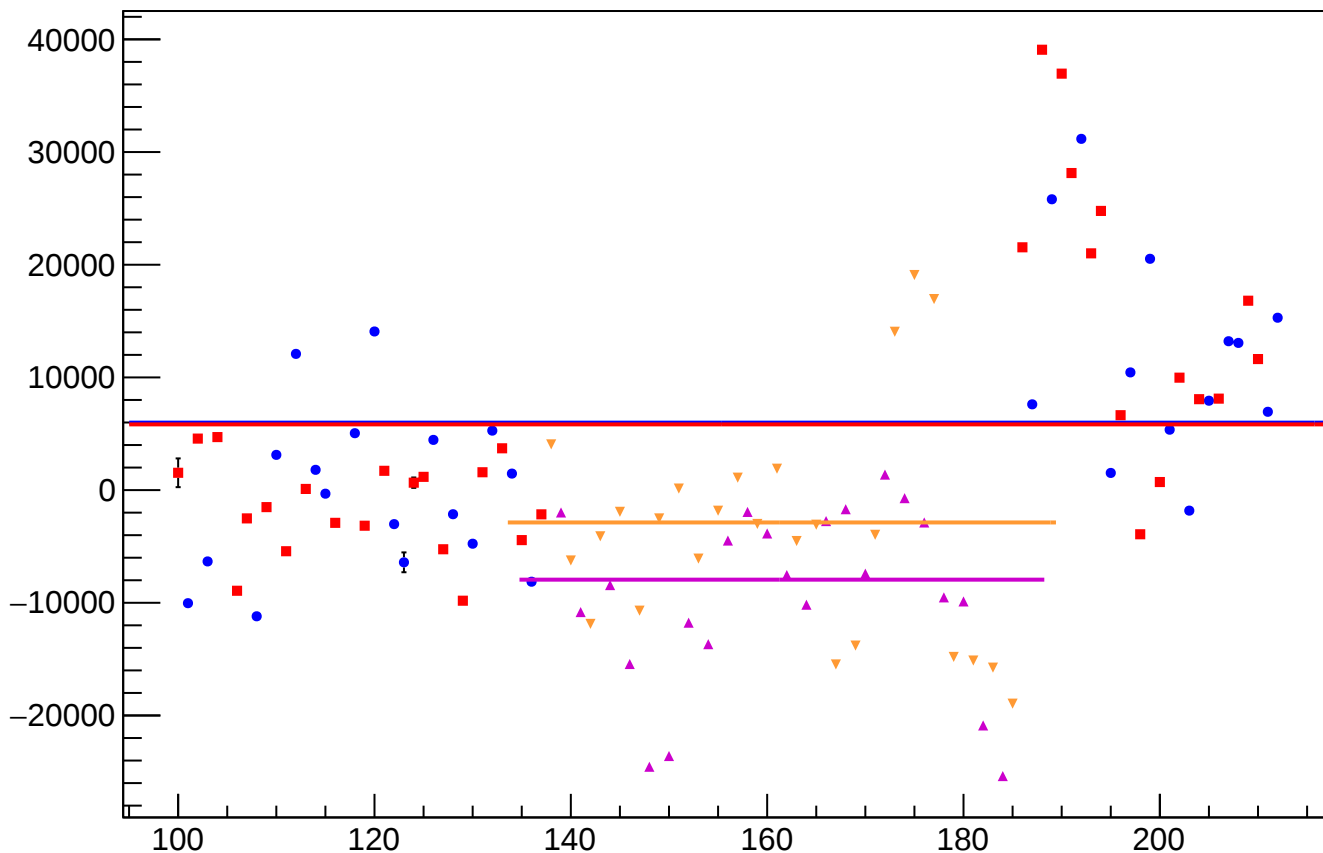
Right: 131.030+/-0.017 χ^2/NDF : 3167498.5/62

In: 138.025+/-0.018 χ^2/NDF : 4262047.5/52

Out: 136.338+/-0.017 χ^2/NDF : 4469792.0/57

All: 137.150+/-0.012 χ^2/NDF : 8736546.7/110

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5987.448+/-41.662 χ^2/NDF : 63478.4/29

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5832.600+/-40.141 χ^2/NDF : 98630.1/32

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

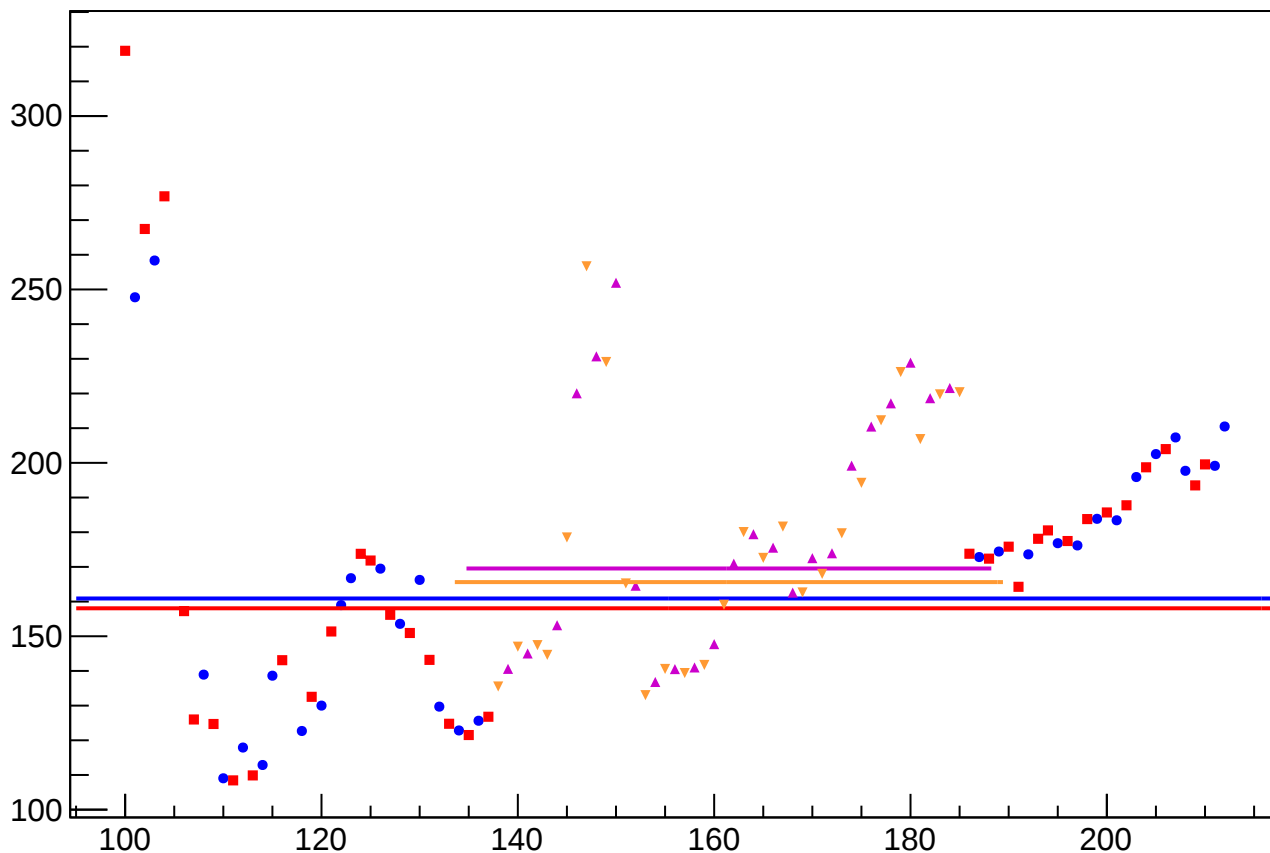
Right: 5907.146+/-28.907 χ^2/NDF : 162115.7/62

In: -969.166+/-29.482 χ^2/NDF : 143202.3/52

Out: 1409.094+/-28.148 χ^2/NDF : 168943.3/57

All: 274.980+/-20.359 χ^2/NDF : 315549.8/110

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 160.891+/-0.029 χ^2/NDF : 1457196.4/29

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 158.060+/-0.028 χ^2/NDF : 1505443.6/32

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

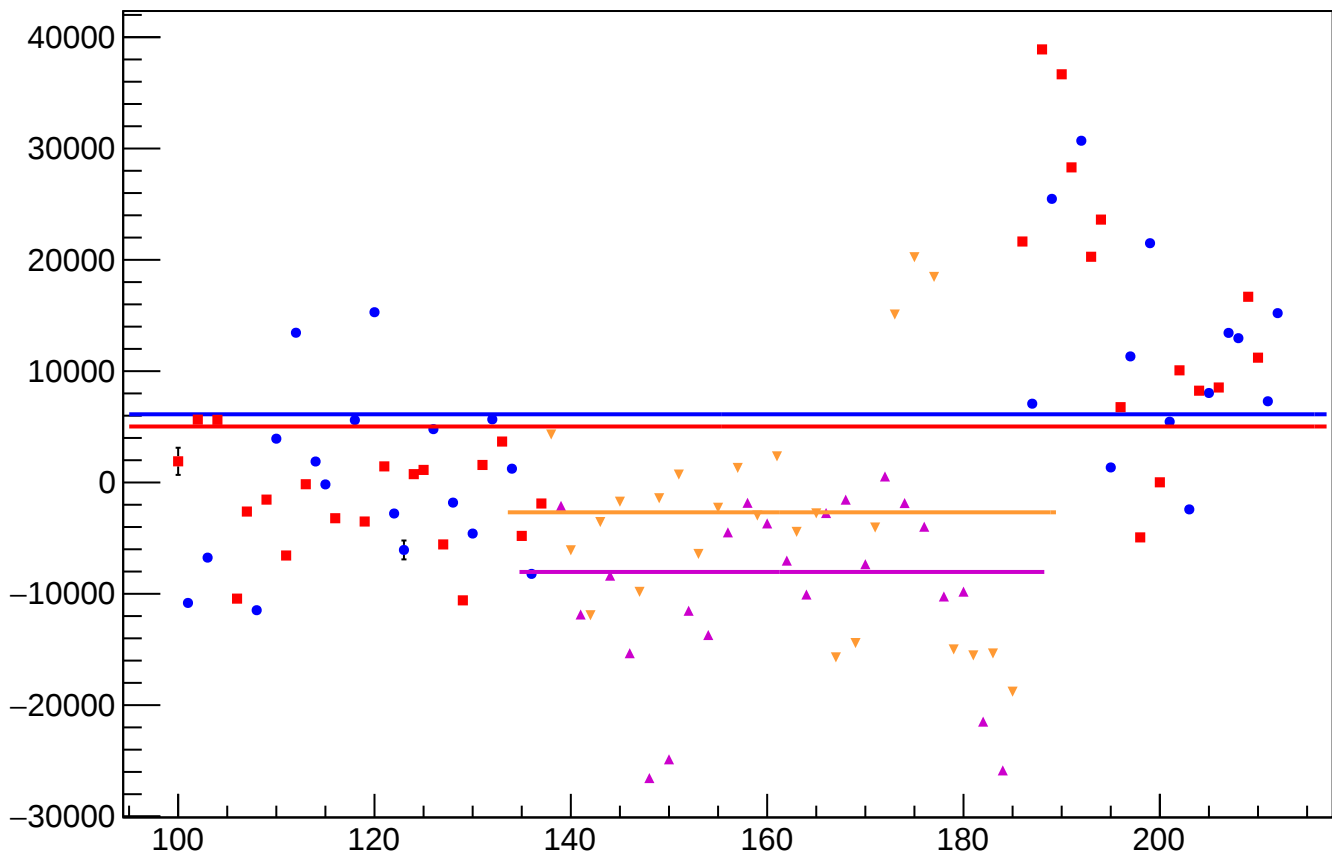
Right: 159.423+/-0.020 χ^2/NDF : 2967429.9/62

In: 165.210+/-0.021 χ^2/NDF :2659487.0/52

Out: 161.900+/-0.020 χ^2/NDF :2686248.8/57

All: 163.479+/-0.014 χ^2/NDF : 5358917.2/110

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6126.087+/-35.250

χ^2/NDF : 88921.2/29

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 5553.729+/-24.370

χ^2/NDF : 227155.6/62

Right Out: 5029.703+/-33.728

χ^2/NDF : 137729.4/32

In: -438.339+/-25.819

χ^2/NDF : 193007.1/52

Out: 1400.440+/-24.538

χ^2/NDF : 219145.7/57

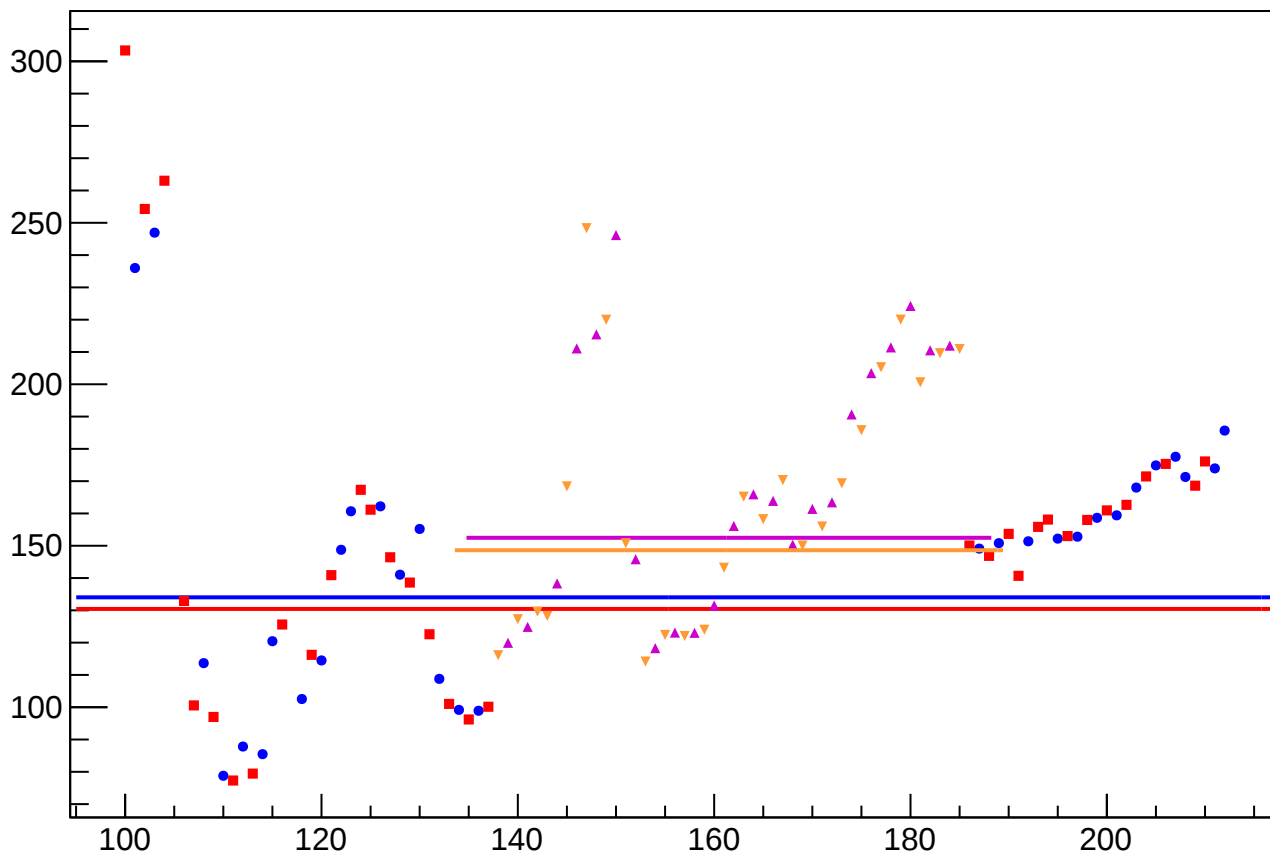
Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

All: 527.815+/-17.786

χ^2/NDF : 414817.8/110

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 134.027 $\pm$ 0.025 χ^2 /NDF: 2227287.5/29

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF: 1685424.1/24

Right Out: 130.438 $\pm$ 0.024 χ^2 /NDF: 2414595.7/32

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

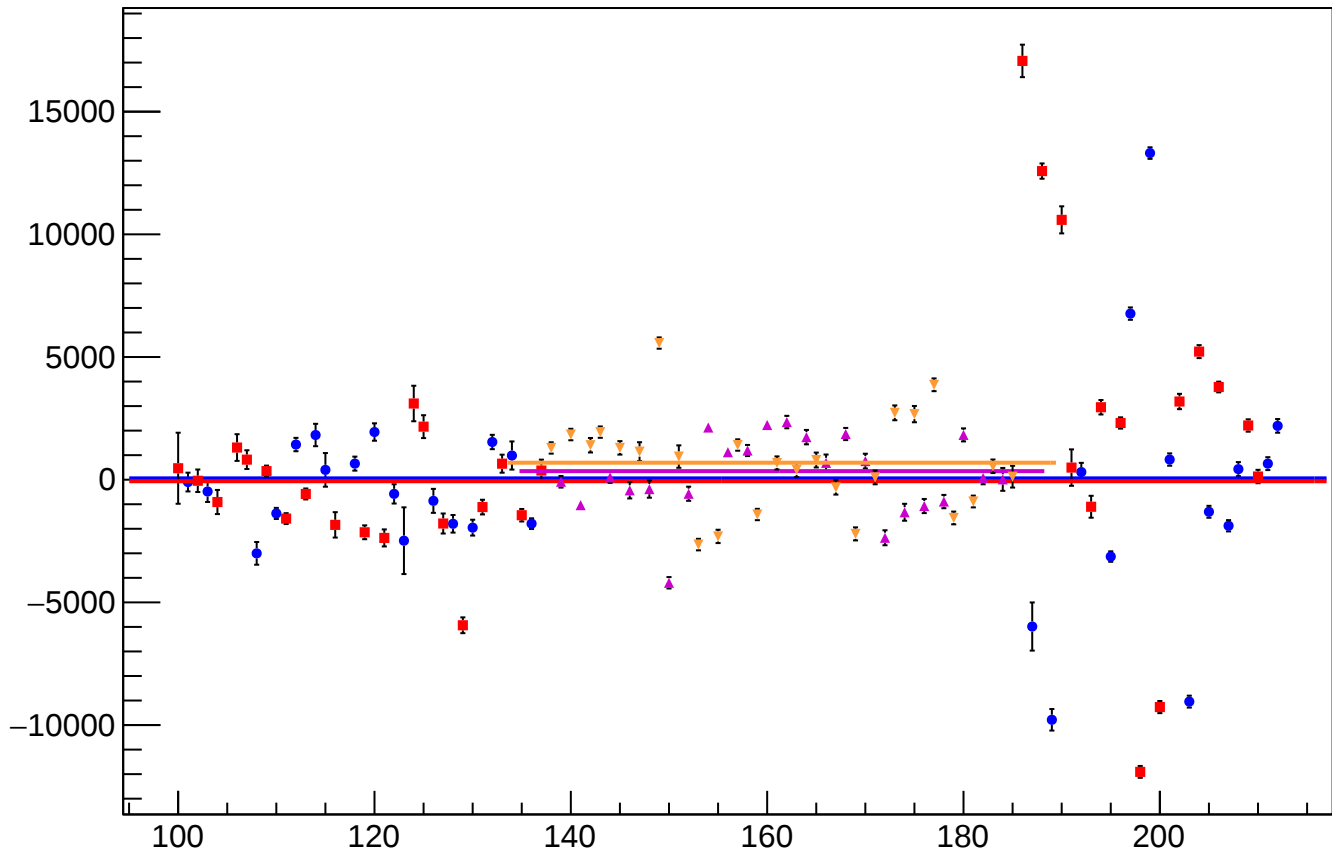
Right: 132.153 $\pm$ 0.017 χ^2 /NDF: 4652707.3/62

In: 142.572 $\pm$ 0.018 χ^2 /NDF: 4172399.6/52

Out: 138.992 $\pm$ 0.017 χ^2 /NDF: 4373344.2/57

All: 140.691 $\pm$ 0.013 χ^2 /NDF: 8565943.1/110

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 54.327+/-56.008 χ^2/NDF : 6556.6/29

Left Out: 692.998+/-54.303 χ^2/NDF :1422.0/24

Right Out: -62.819+/-55.286 χ^2/NDF : 8216.4/32

Left In: 349.623+/-53.094 χ^2/NDF :981.0/22

Left: 517.444+/-37.963 χ^2/NDF : 2423.4/47

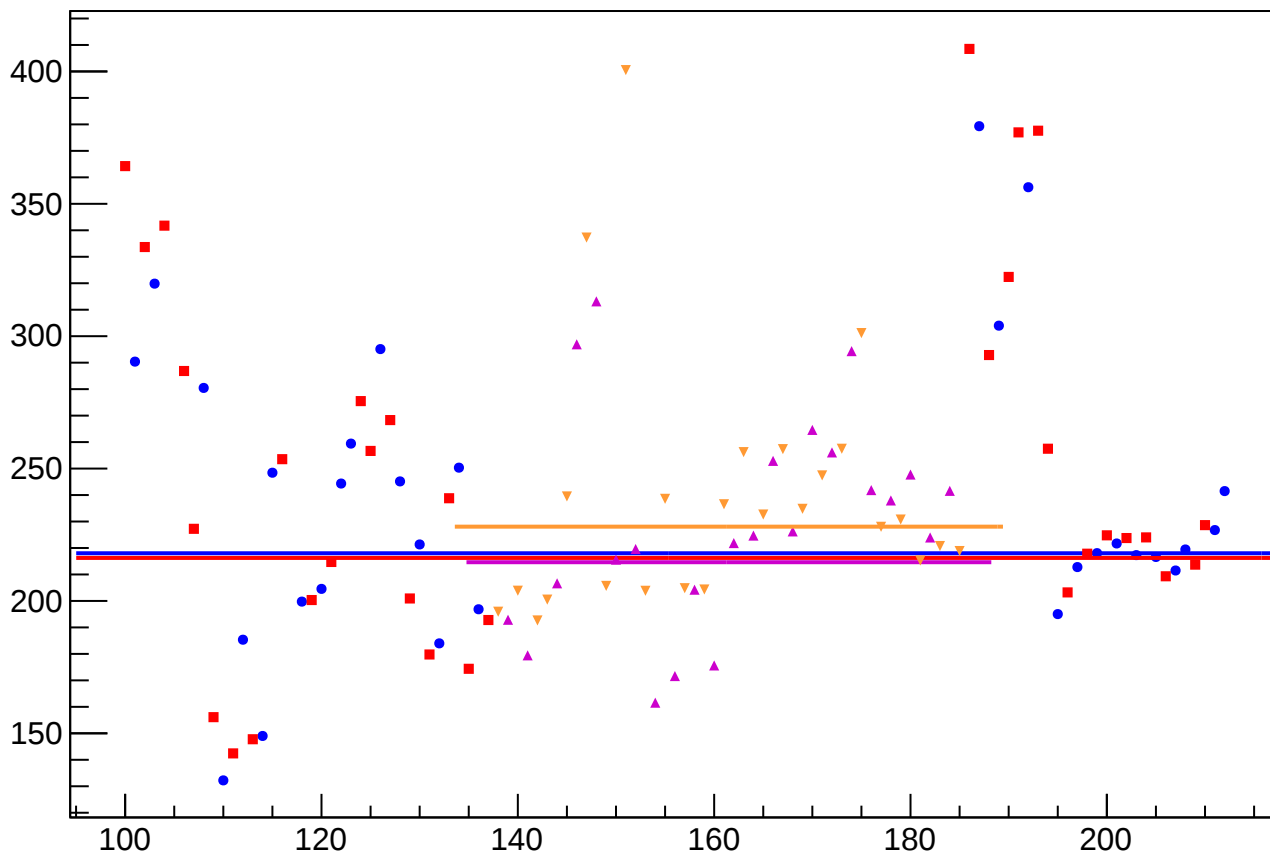
Right: -5.007+/-39.346 χ^2/NDF : 14775.2/62

In: 209.857+/-38.532 χ^2/NDF :7552.2/52

Out: 321.863+/-38.741 χ^2/NDF :9733.6/57

All: 265.557+/-27.320 χ^2/NDF : 17290.0/110

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 218.008 $\pm$ 0.040 χ^2 /NDF: 1168608.3/29

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 216.251 $\pm$ 0.039 χ^2 /NDF: 1827024.1/32

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

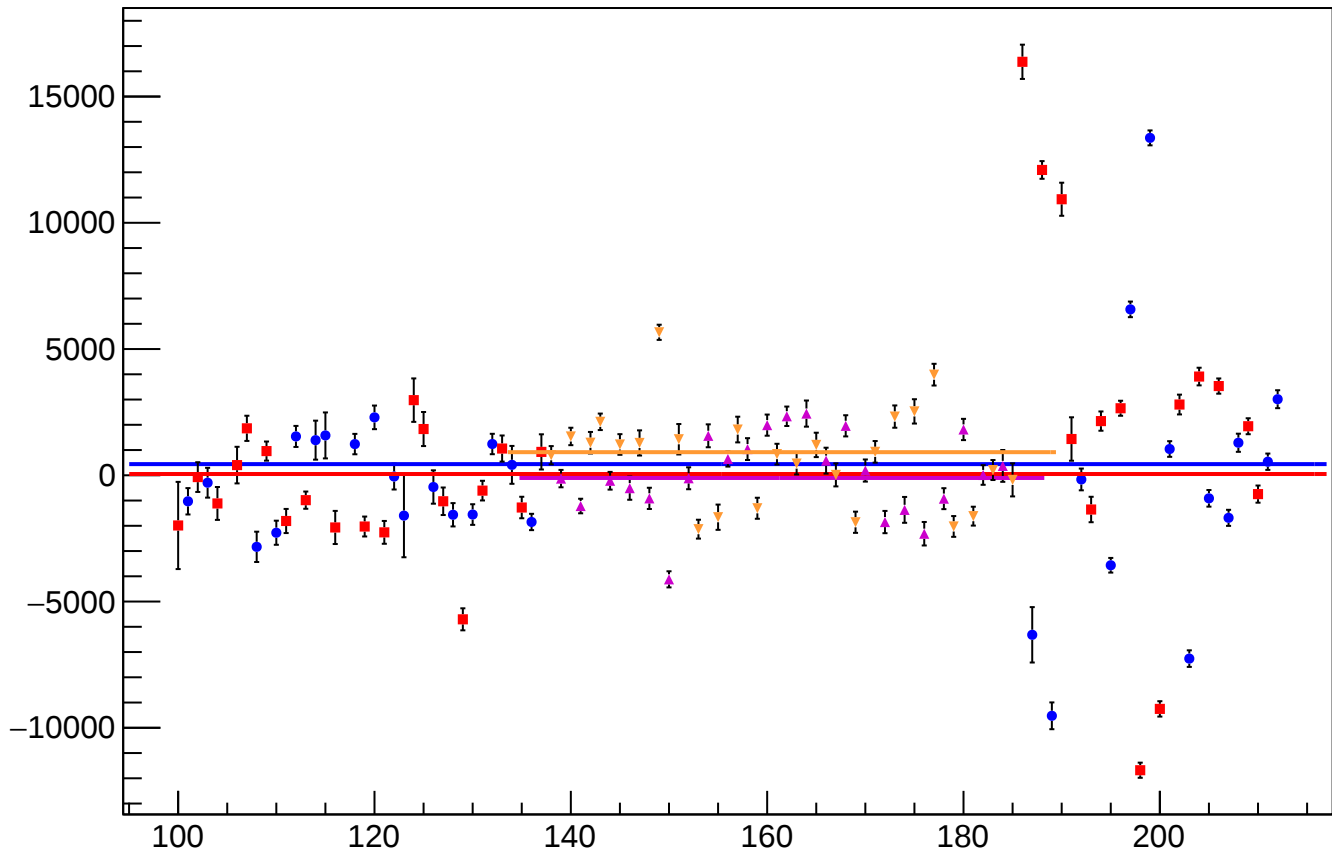
Right: 217.118 $\pm$ 0.028 χ^2 /NDF: 2996629.3/62

In: 216.227 $\pm$ 0.027 χ^2 /NDF: 2198130.8/52

Out: 222.262 $\pm$ 0.027 χ^2 /NDF: 2699815.0/57

All: 219.228 $\pm$ 0.019 χ^2 /NDF: 4922339.8/110

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 442.687+/-75.549 χ^2/NDF : 3760.4/29

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 50.578+/-75.042 χ^2/NDF : 5290.4/32

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

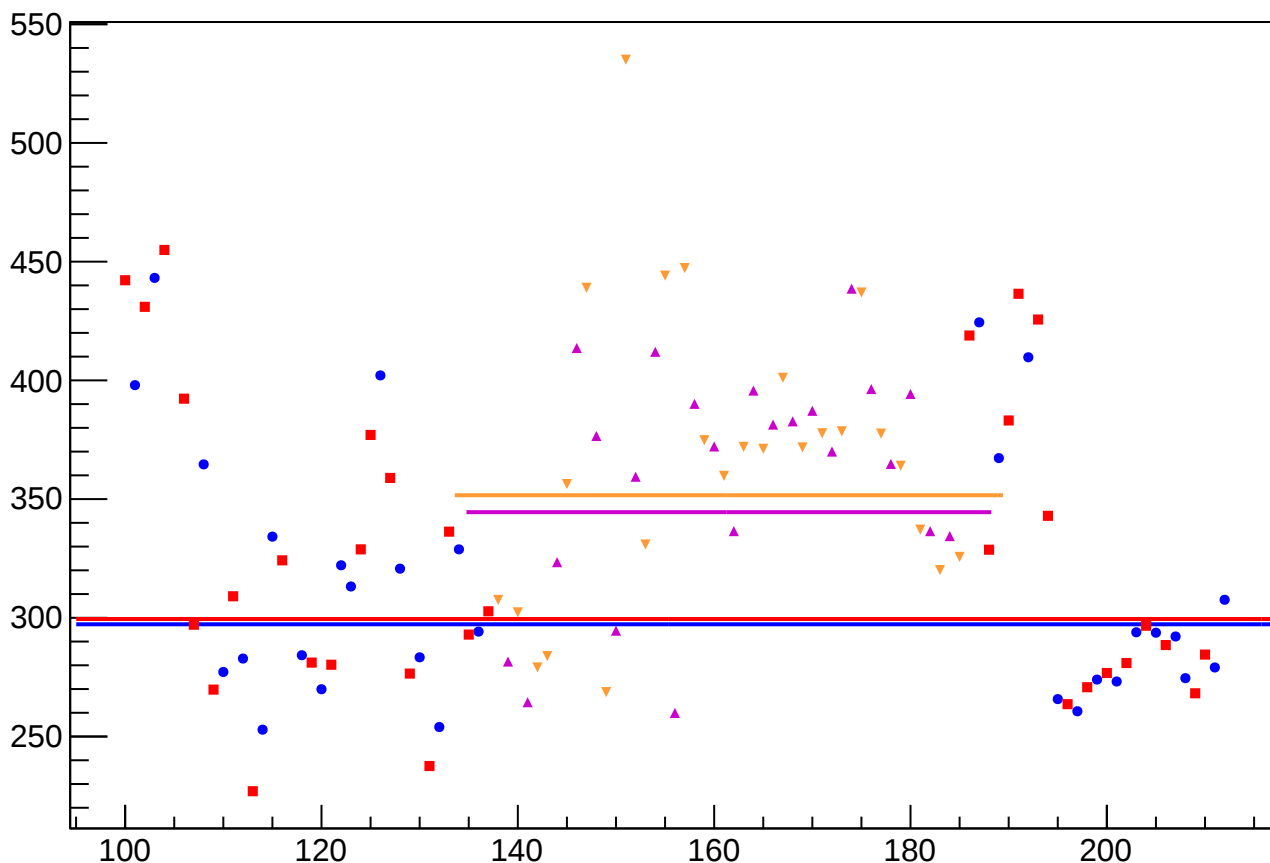
Right: 245.311+/-53.241 χ^2/NDF : 9064.5/62

In: 198.538+/-56.289 χ^2/NDF : 4174.2/52

Out: 437.758+/-55.784 χ^2/NDF : 5968.2/57

All: 319.227+/-39.623 χ^2/NDF : 10151.6/110

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 297.274 ± 0.053 $\chi^2/\text{NDF}: 626839.3/29$

Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$

Right Out: 299.501 ± 0.053 $\chi^2/\text{NDF}: 893362.3/32$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$

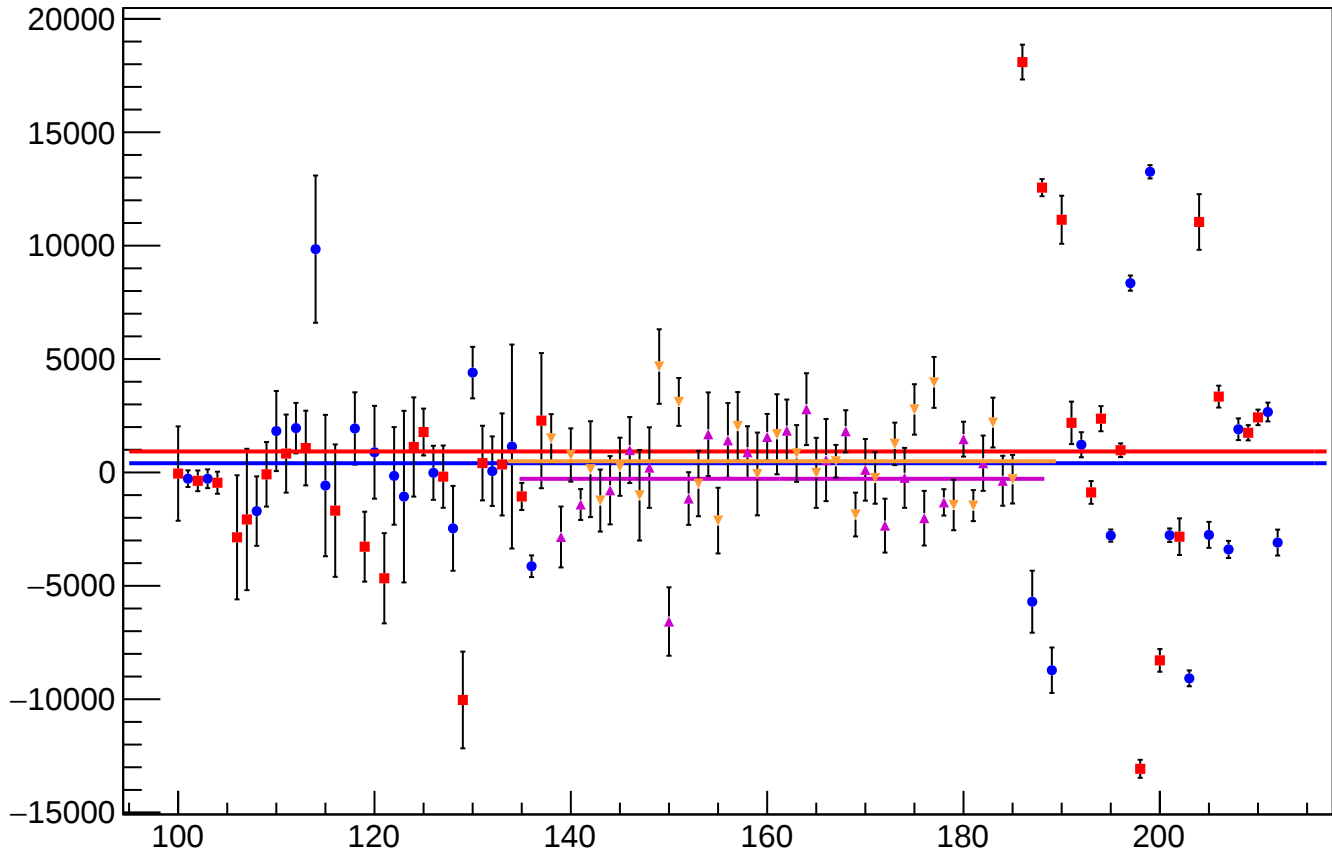
Right: 298.395 ± 0.038 $\chi^2/\text{NDF}: 1521076.4/62$

In: 318.280 ± 0.040 $\chi^2/\text{NDF}: 1743263.8/52$

Out: 322.825 ± 0.039 $\chi^2/\text{NDF}: 2233062.0/57$

All: 320.573 ± 0.028 $\chi^2/\text{NDF}: 3982905.5/110$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 406.416 $\pm$ 97.814 χ^2/NDF : 3900.8/29

Left Out: 495.014 $\pm$ 231.058 χ^2/NDF : 56.2/24

Right Out: 925.301 $\pm$ 111.781 χ^2/NDF : 3360.2/32

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

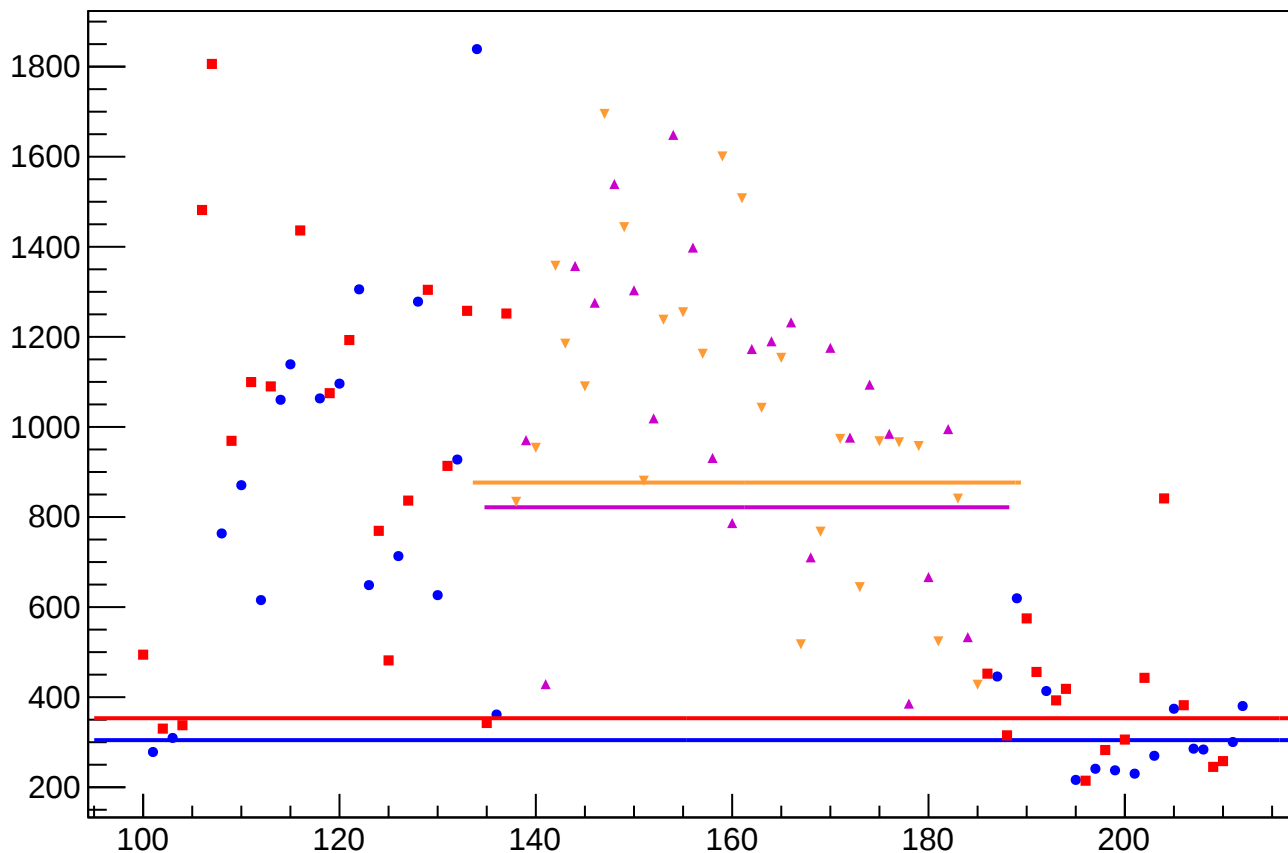
Right: 631.433 $\pm$ 73.611 χ^2/NDF : 7273.2/62

In: 302.749 $\pm$ 90.133 χ^2/NDF : 3965.4/52

Out: 843.695 $\pm$ 100.624 χ^2/NDF : 3419.3/57

All: 543.562 $\pm$ 67.138 χ^2/NDF : 7400.7/110

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 304.608 $\pm$ 0.069 χ^2/NDF : 4442477.4/29

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF :3434698.7/24

Right Out: 353.269 $\pm$ 0.079 χ^2/NDF : 5917308.0/32

Left In: 821.657 $\pm$ 0.164 χ^2/NDF :4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2/NDF : 7934012.4/47

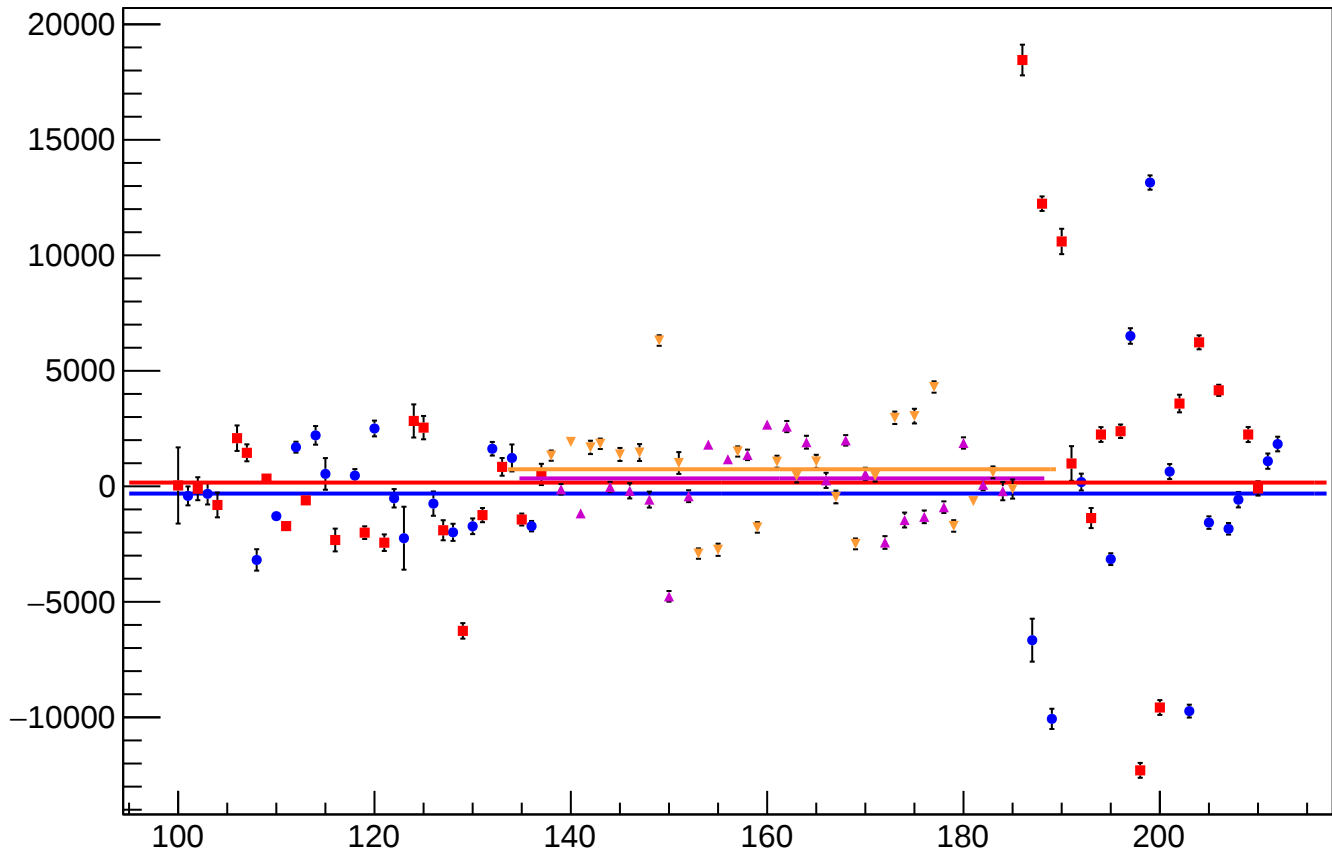
Right: 325.710 $\pm$ 0.052 χ^2/NDF : 10574438.4/62

In: 382.618 $\pm$ 0.064 χ^2/NDF :17317201.4/52

Out: 452.514 $\pm$ 0.071 χ^2/NDF :17664749.2/57

All: 413.733 $\pm$ 0.047 χ^2/NDF : 35517360.4/11

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -313.158 ± 60.307 $\chi^2/\text{NDF}: 4613.5/29$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 162.530 ± 58.179 $\chi^2/\text{NDF}: 6667.3/32$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

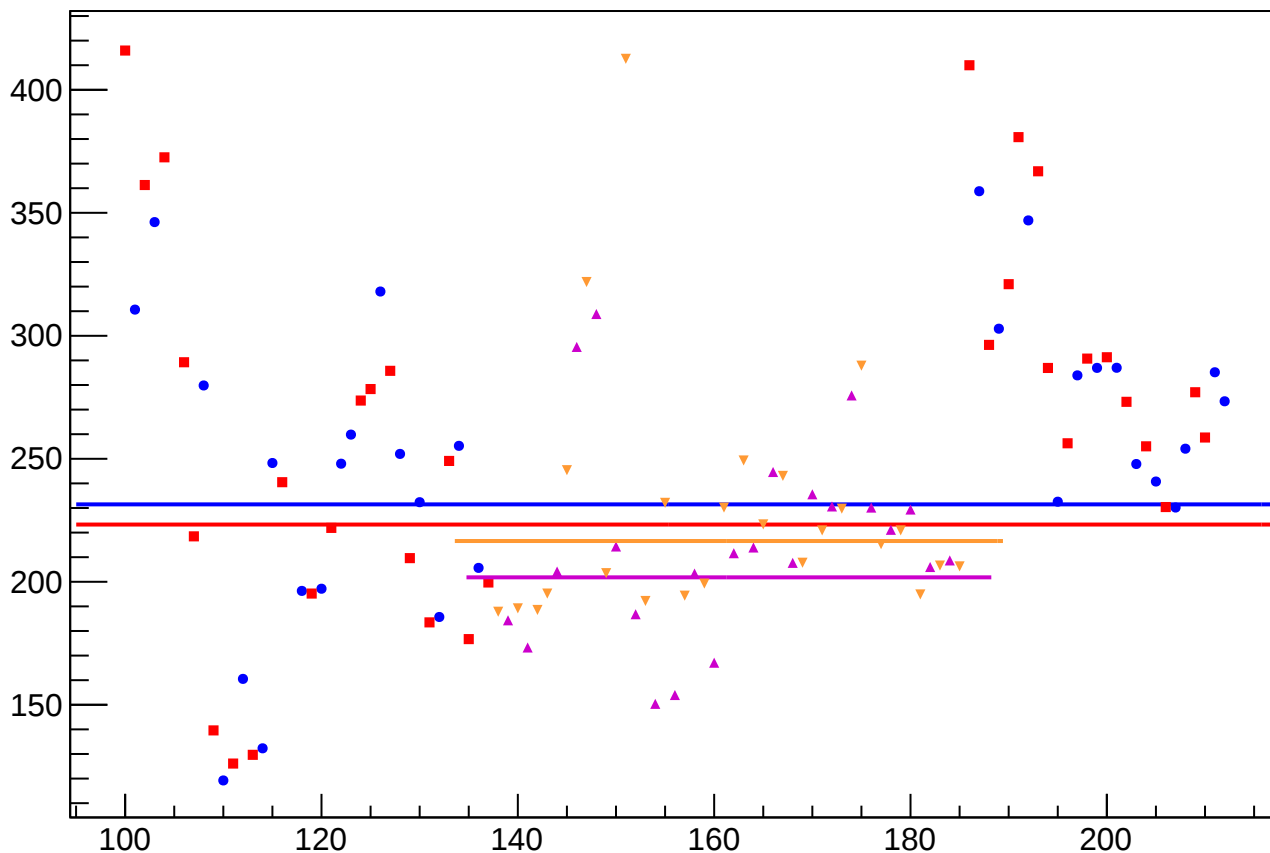
Right: -66.776 ± 41.871 $\chi^2/\text{NDF}: 11313.0/62$

In: 75.102 ± 38.511 $\chi^2/\text{NDF}: 5938.4/52$

Out: 484.835 ± 38.625 $\chi^2/\text{NDF}: 8657.4/57$

All: 279.367 ± 27.272 $\chi^2/\text{NDF}: 14652.2/110$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 231.472 ± 0.043 χ^2/NDF : 1881848.6/29

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 223.272 ± 0.041 χ^2/NDF : 2921684.0/32

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

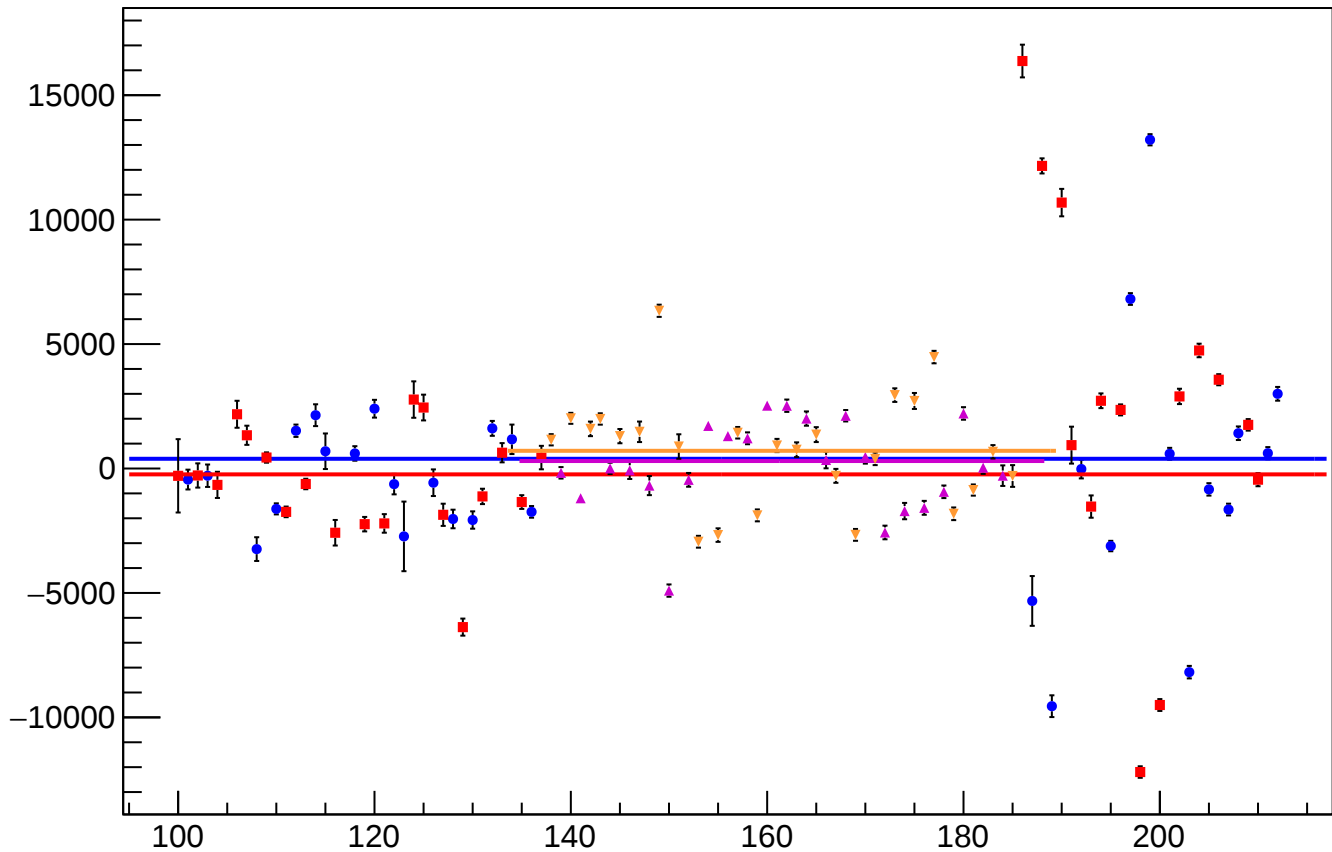
Right: 227.225 ± 0.030 χ^2/NDF : 4822685.0/62

In: 213.903 ± 0.027 χ^2/NDF : 3255710.4/52

Out: 219.526 ± 0.027 χ^2/NDF : 3822722.1/57

All: 216.707 ± 0.019 χ^2/NDF : 7099686.6/110

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 390.750 ± 55.877 $\chi^2/\text{NDF}: 6583.6/29$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: -235.757 ± 54.965 $\chi^2/\text{NDF}: 8530.3/32$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

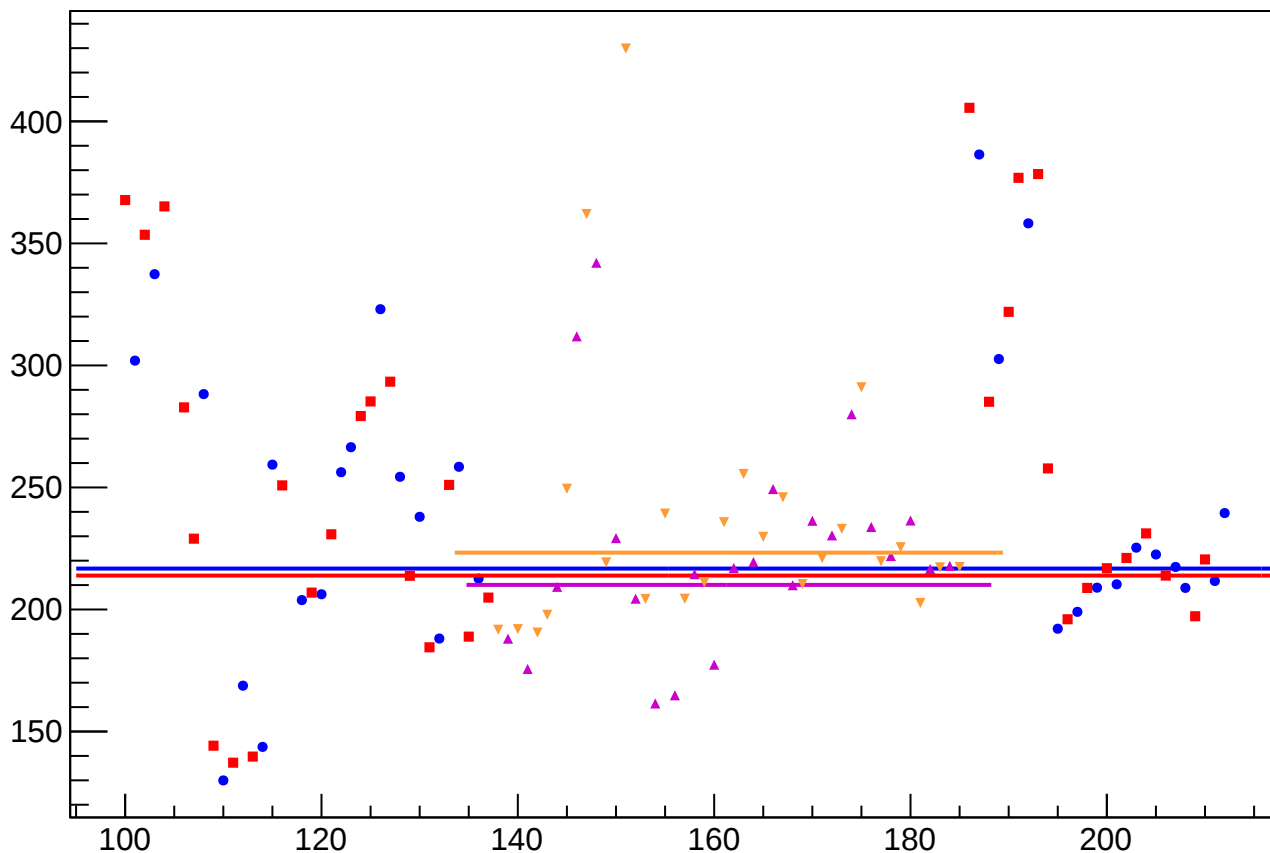
Right: 72.342 ± 39.185 $\chi^2/\text{NDF}: 15177.8/62$

In: 342.381 ± 38.060 $\chi^2/\text{NDF}: 7793.6/52$

Out: 252.758 ± 38.243 $\chi^2/\text{NDF}: 10518.7/57$

All: 297.785 ± 26.977 $\chi^2/\text{NDF}: 18315.1/110$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.770 $\pm$ 0.040 χ^2/NDF : 1361574.4/29

Left Out: 223.296 $\pm$ 0.038 χ^2/NDF : 922768.4/24

Right Out: 213.897 $\pm$ 0.039 χ^2/NDF : 2105396.8/32

Left In: 210.080 $\pm$ 0.037 χ^2/NDF : 1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2/NDF : 2001132.1/47

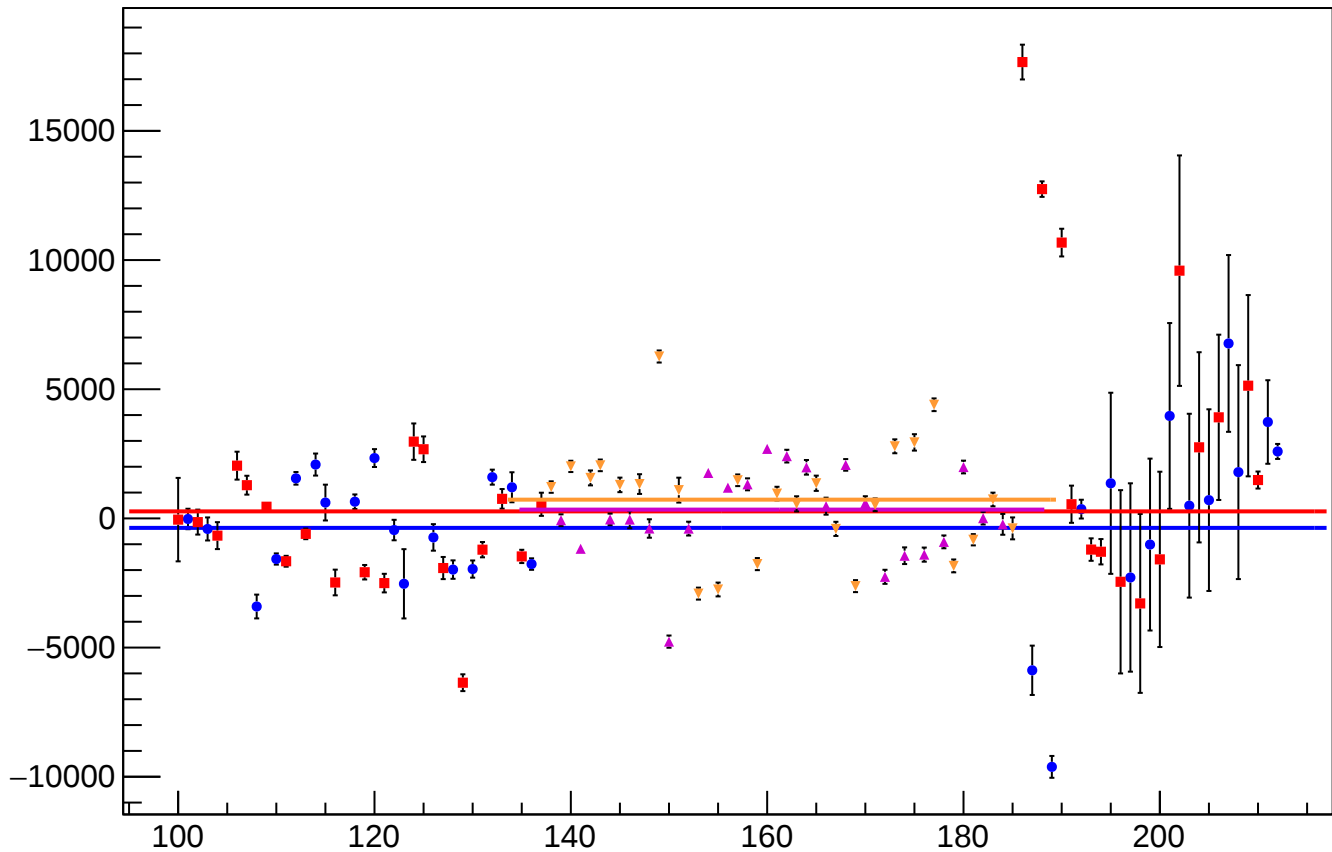
Right: 215.310 $\pm$ 0.028 χ^2/NDF : 3469658.0/62

In: 213.184 $\pm$ 0.027 χ^2/NDF : 2392217.5/52

Out: 218.746 $\pm$ 0.027 χ^2/NDF : 3058335.9/57

All: 215.952 $\pm$ 0.019 χ^2/NDF : 5471809.5/110

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -366.827+/-76.191 χ^2/NDF : 1017.2/29

Left Out: 725.866+/-52.158 χ^2/NDF :1912.7/24

Right Out: 271.839+/-68.441 χ^2/NDF : 3655.8/32

Left In: 340.502+/-50.802 χ^2/NDF :1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

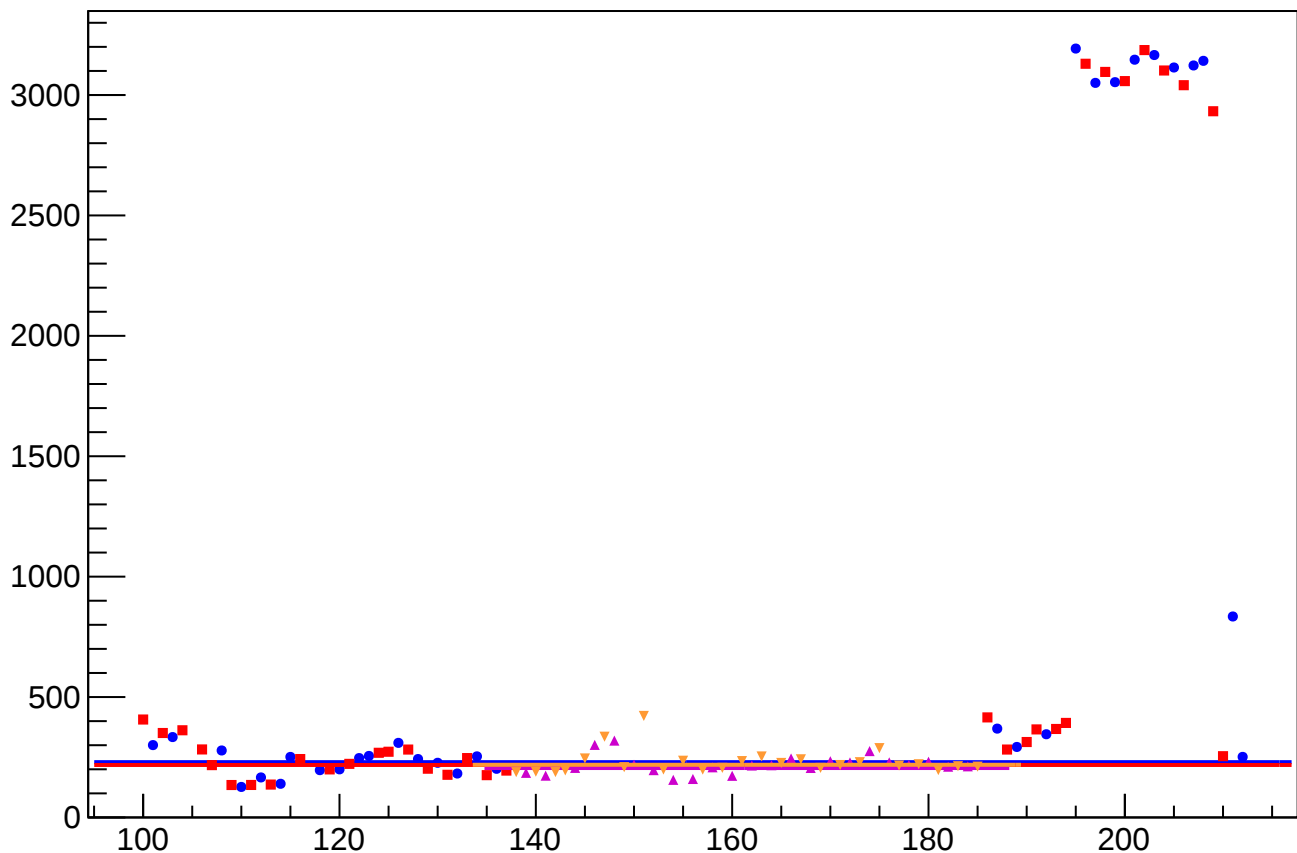
Right: -13.367+/-50.915 χ^2/NDF : 4712.0/62

In: 122.814+/-42.268 χ^2/NDF :2278.7/52

Out: 559.054+/-41.485 χ^2/NDF :5596.4/57

All: 345.014+/-29.607 χ^2/NDF : 7929.4/110

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 229.629+/-0.054 χ^2/NDF : 12147002.1/29

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 217.949+/-0.048 χ^2/NDF : 11477630.1/32

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

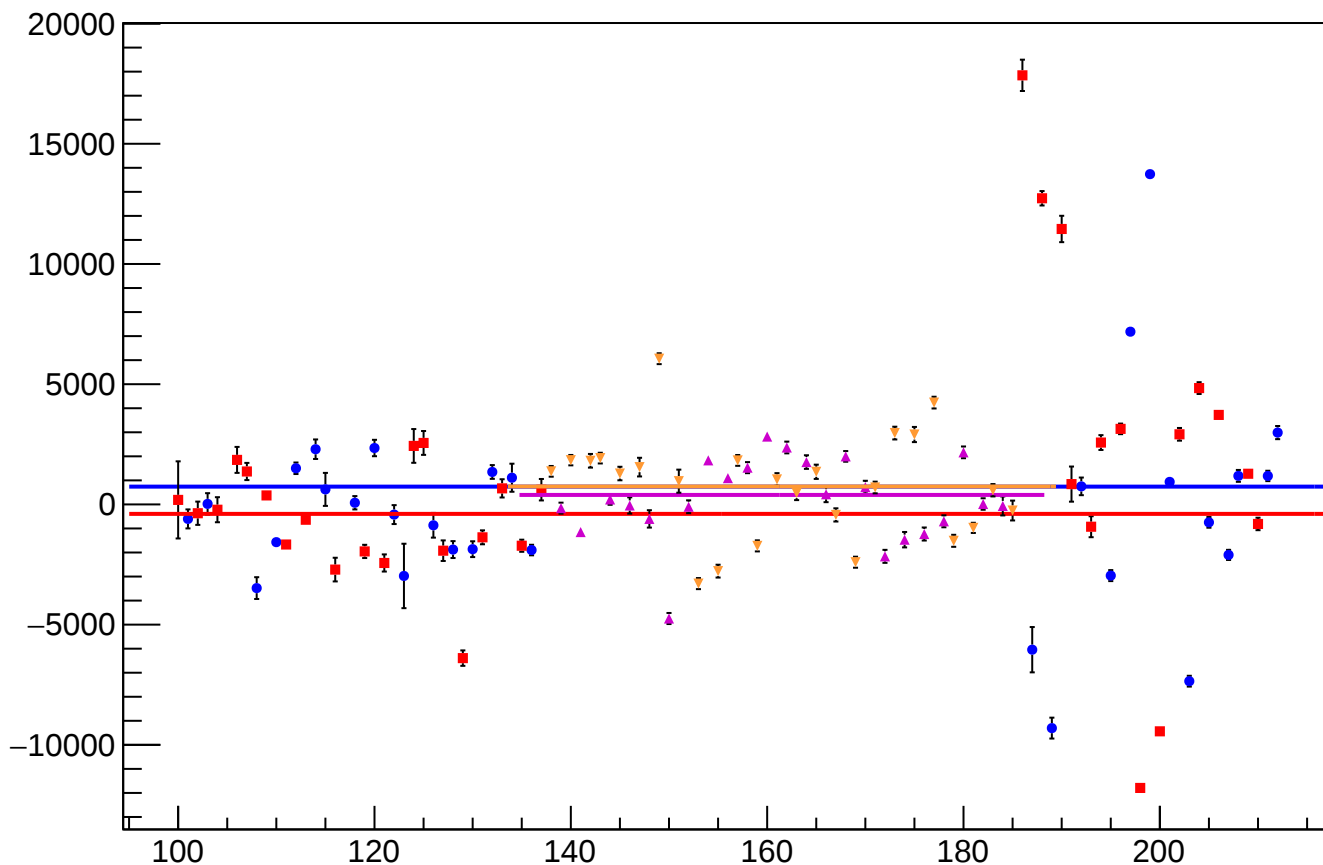
Right: 223.165+/-0.036 χ^2/NDF : 23650643.7/62

In: 212.752+/-0.030 χ^2/NDF : 13285923.7/52

Out: 218.467+/-0.029 χ^2/NDF : 12374726.1/57

All: 215.663+/-0.021 χ^2/NDF : 25679274.3/11

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 740.003+/-51.984 χ^2/NDF : 8529.2/29

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: -393.698+/-51.321 χ^2/NDF : 10371.7/32

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

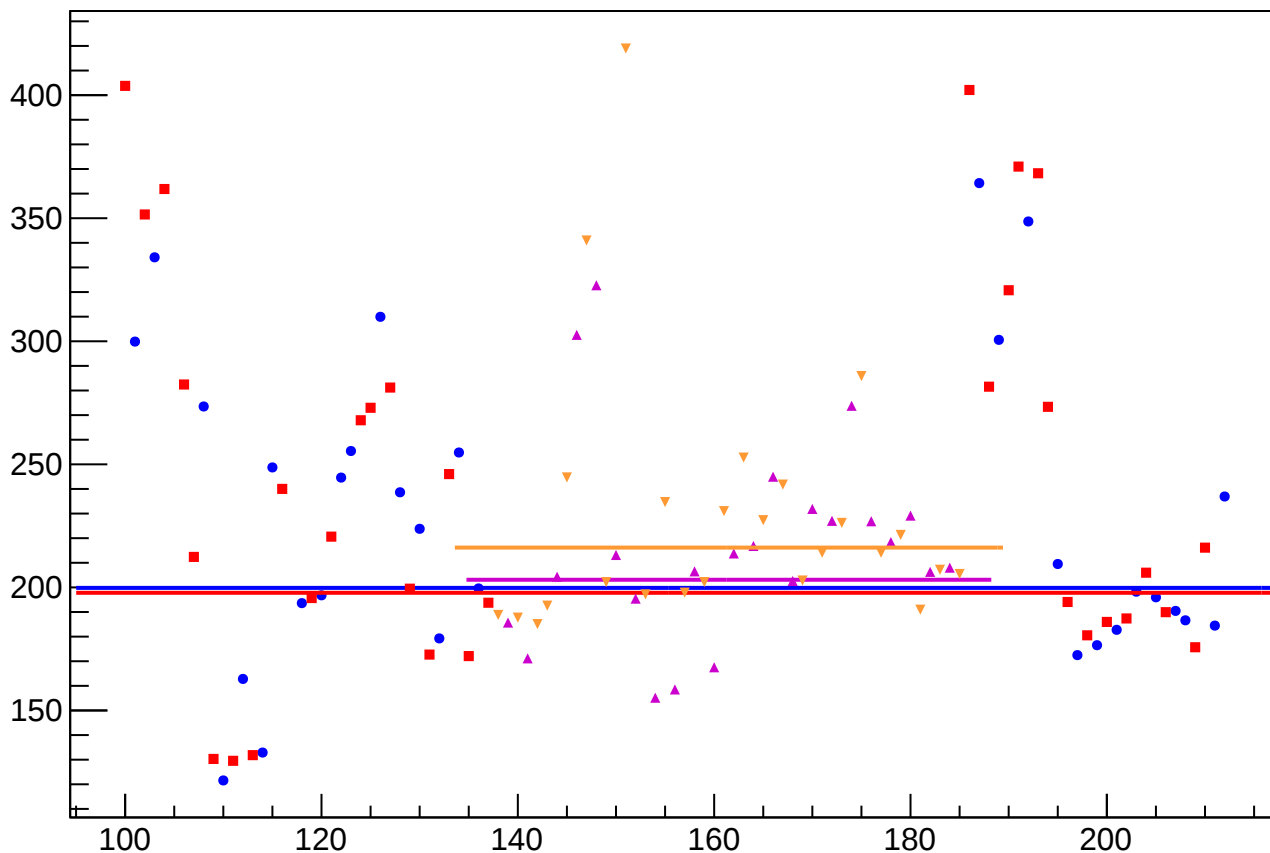
Right: 165.881+/-36.522 χ^2/NDF : 19141.8/62

In: 561.541+/-36.152 χ^2/NDF :9788.5/52

Out: 173.357+/-36.385 χ^2/NDF :12559.2/57

All: 368.694+/-25.645 χ^2/NDF : 22405.0/110

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.808 ± 0.037 $\chi^2/\text{NDF}: 1576584.3/29$

Left Out: 216.178 ± 0.036 $\chi^2/\text{NDF}: 946050.8/24$

Right Out: 197.808 ± 0.036 $\chi^2/\text{NDF}: 2474719.8/32$

Left In: 203.101 ± 0.036 $\chi^2/\text{NDF}: 1038013.0/22$

Left: 209.475 ± 0.025 $\chi^2/\text{NDF}: 2049926.5/47$

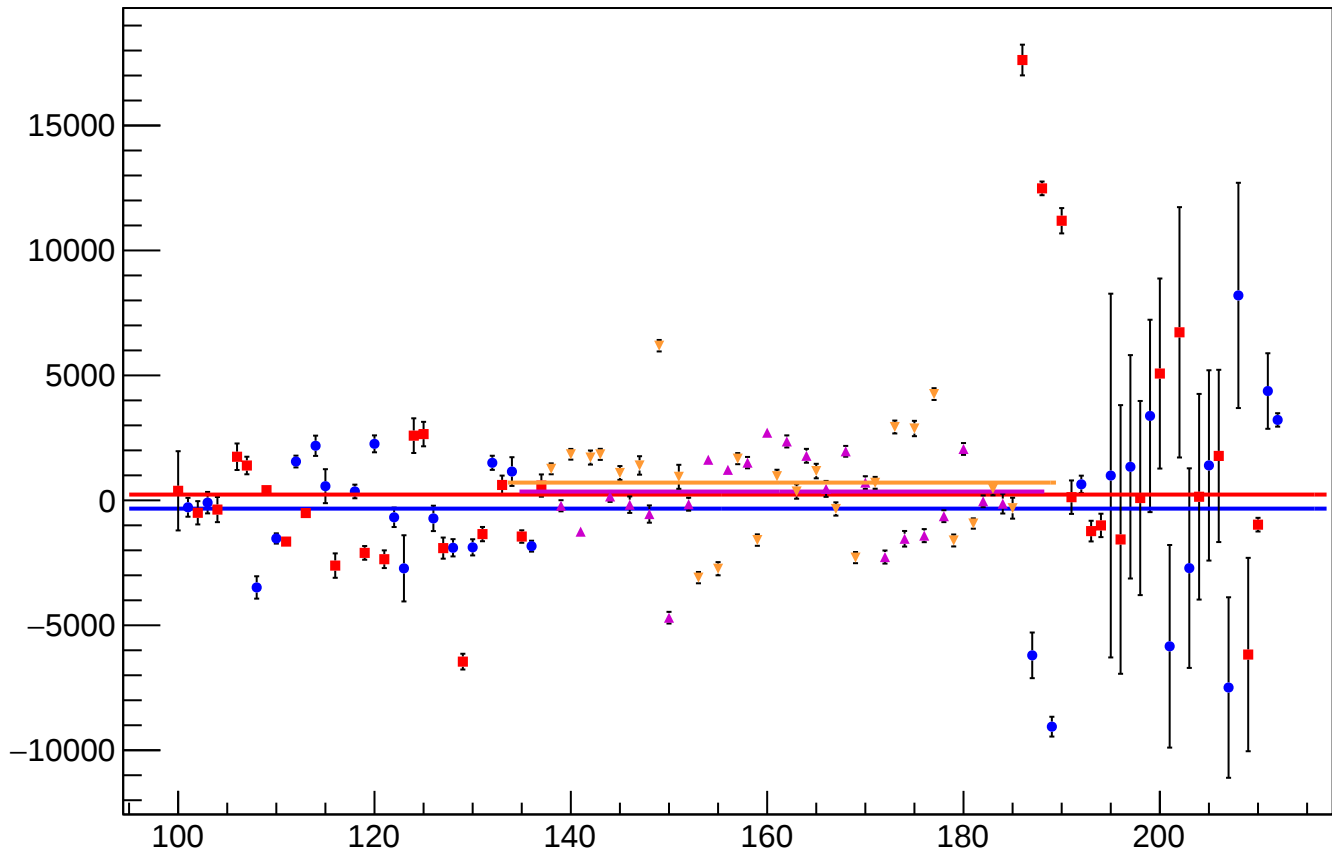
Right: 198.795 ± 0.026 $\chi^2/\text{NDF}: 4052802.6/62$

In: 201.508 ± 0.026 $\chi^2/\text{NDF}: 2618741.3/52$

Out: 206.945 ± 0.026 $\chi^2/\text{NDF}: 3548213.8/57$

All: 204.209 ± 0.018 $\chi^2/\text{NDF}: 6189425.1/110$

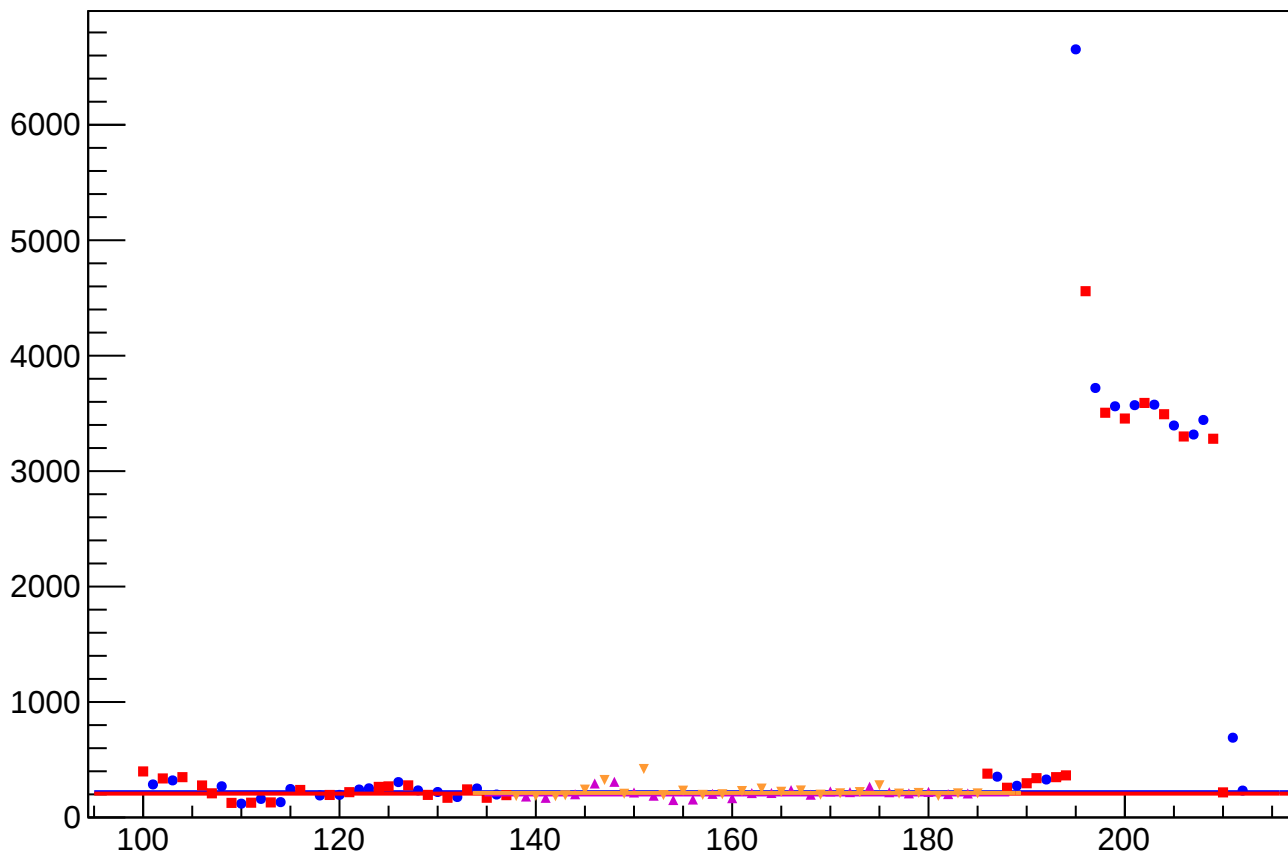
asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -331.260 ± 73.421 $\chi^2/\text{NDF}: 1124.8/29$
 Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$
 Right Out: 231.162 ± 65.177 $\chi^2/\text{NDF}: 4188.0/32$
 Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$
 Right: -16.713 ± 48.742 $\chi^2/\text{NDF}: 5345.7/62$
 In: 139.874 ± 40.938 $\chi^2/\text{NDF}: 2417.6/52$
 Out: 529.410 ± 40.043 $\chi^2/\text{NDF}: 6154.0/57$
 All: 338.948 ± 28.626 $\chi^2/\text{NDF}: 8617.9/110$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 219.008 $\pm$ 0.052 χ^2 /NDF: 12506286.2/29

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 206.397 $\pm$ 0.046 χ^2 /NDF: 11709906.3/32

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

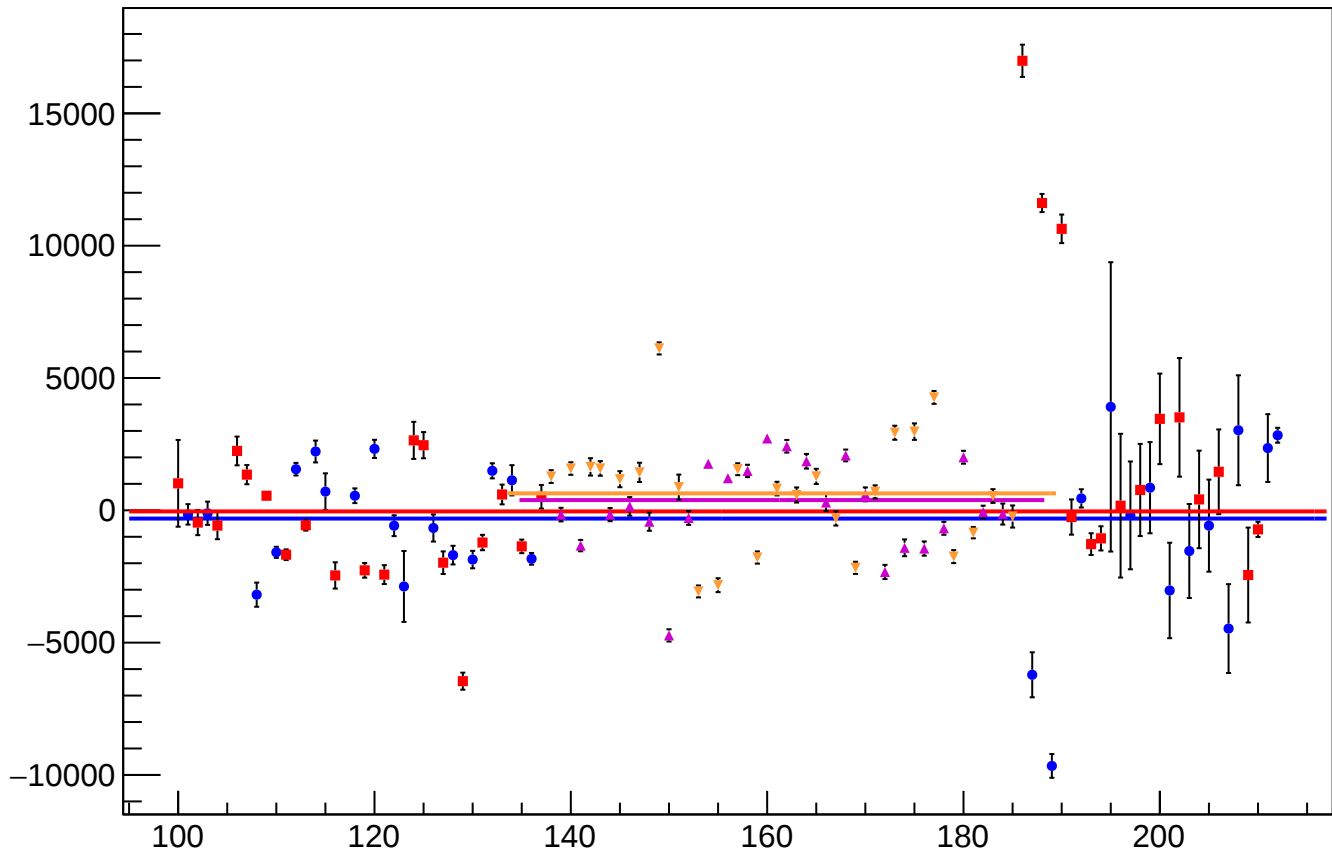
Right: 211.955 $\pm$ 0.034 χ^2 /NDF: 24249192.3/62

In: 205.318 $\pm$ 0.029 χ^2 /NDF: 13593123.3/52

Out: 210.333 $\pm$ 0.028 χ^2 /NDF: 12637842.8/57

All: 207.881 $\pm$ 0.020 χ^2 /NDF: 26246298.8/11

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -311.888 ± 74.484 $\chi^2/\text{NDF}: 1010.3/29$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: -41.305 ± 66.906 $\chi^2/\text{NDF}: 3111.3/32$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

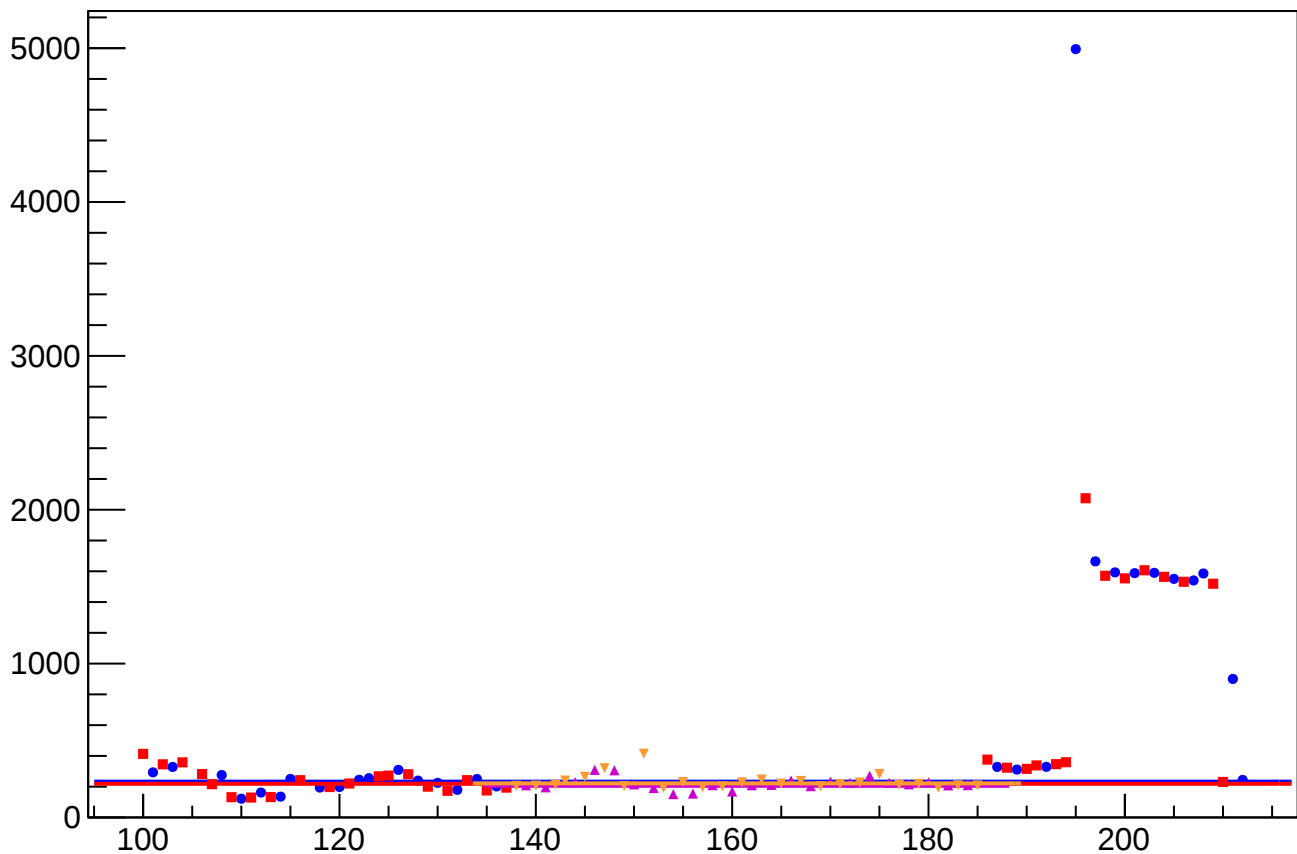
Right: -162.137 ± 49.774 $\chi^2/\text{NDF}: 4128.9/62$

In: 163.449 ± 42.077 $\chi^2/\text{NDF}: 2308.1/52$

Out: 379.089 ± 41.404 $\chi^2/\text{NDF}: 5034.5/57$

All: 273.009 ± 29.512 $\chi^2/\text{NDF}: 7356.0/110$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 232.828 $\pm$ 0.053 χ^2 /NDF: 11279629.2/29

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 218.795 $\pm$ 0.047 χ^2 /NDF: 10161216.9/32

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

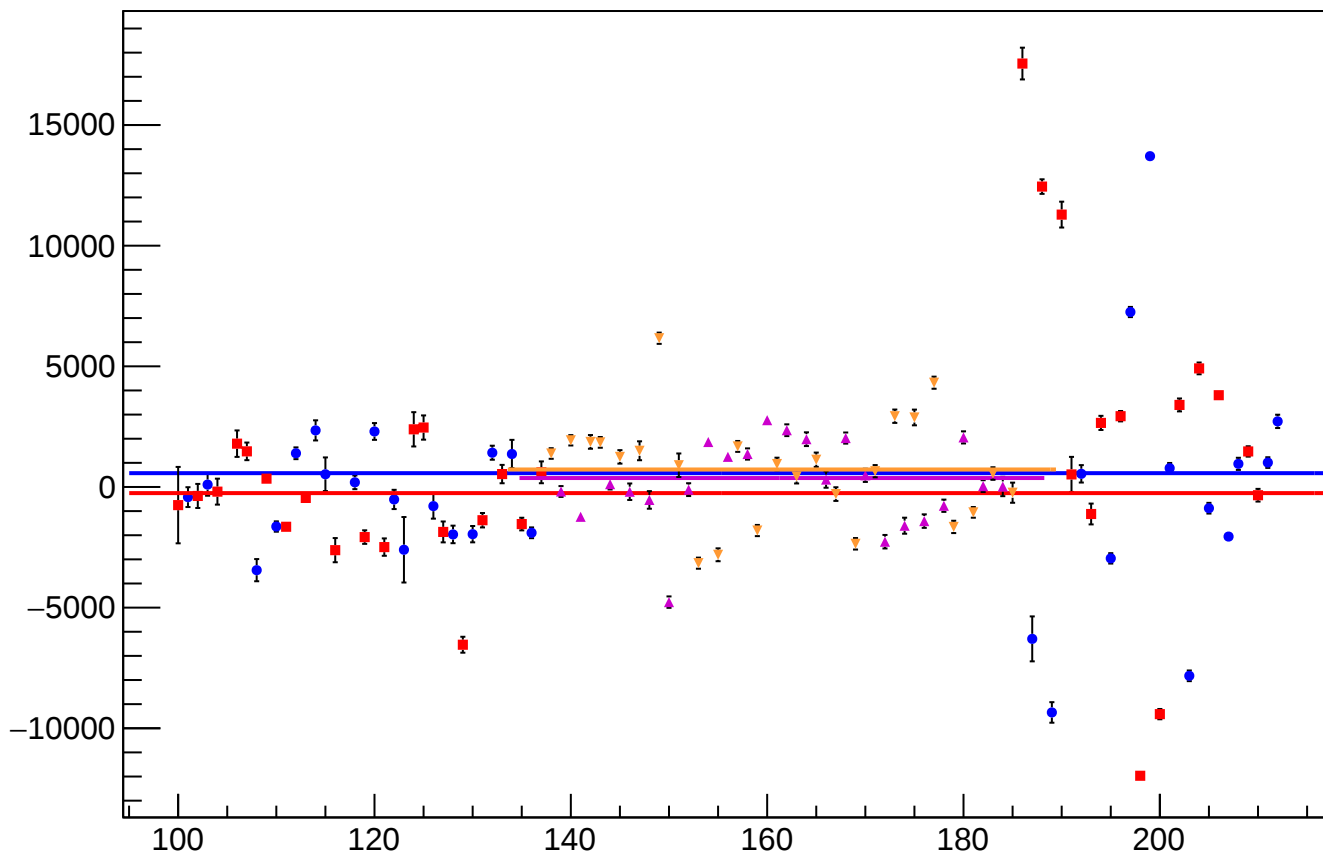
Right: 225.061 $\pm$ 0.035 χ^2 /NDF: 21480139.7/62

In: 214.428 $\pm$ 0.030 χ^2 /NDF: 12453799.0/52

Out: 220.401 $\pm$ 0.029 χ^2 /NDF: 10940919.4/57

All: 217.463 $\pm$ 0.021 χ^2 /NDF: 23415195.4/111

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 572.595 ± 52.507 $\chi^2/\text{NDF}: 8509.6/29$

Left Out: 725.250 ± 52.307 $\chi^2/\text{NDF}: 1883.1/24$

Right Out: -254.105 ± 52.121 $\chi^2/\text{NDF}: 10045.8/32$

Left In: 370.408 ± 50.884 $\chi^2/\text{NDF}: 1223.2/22$

Left: 542.938 ± 36.473 $\chi^2/\text{NDF}: 3129.9/47$

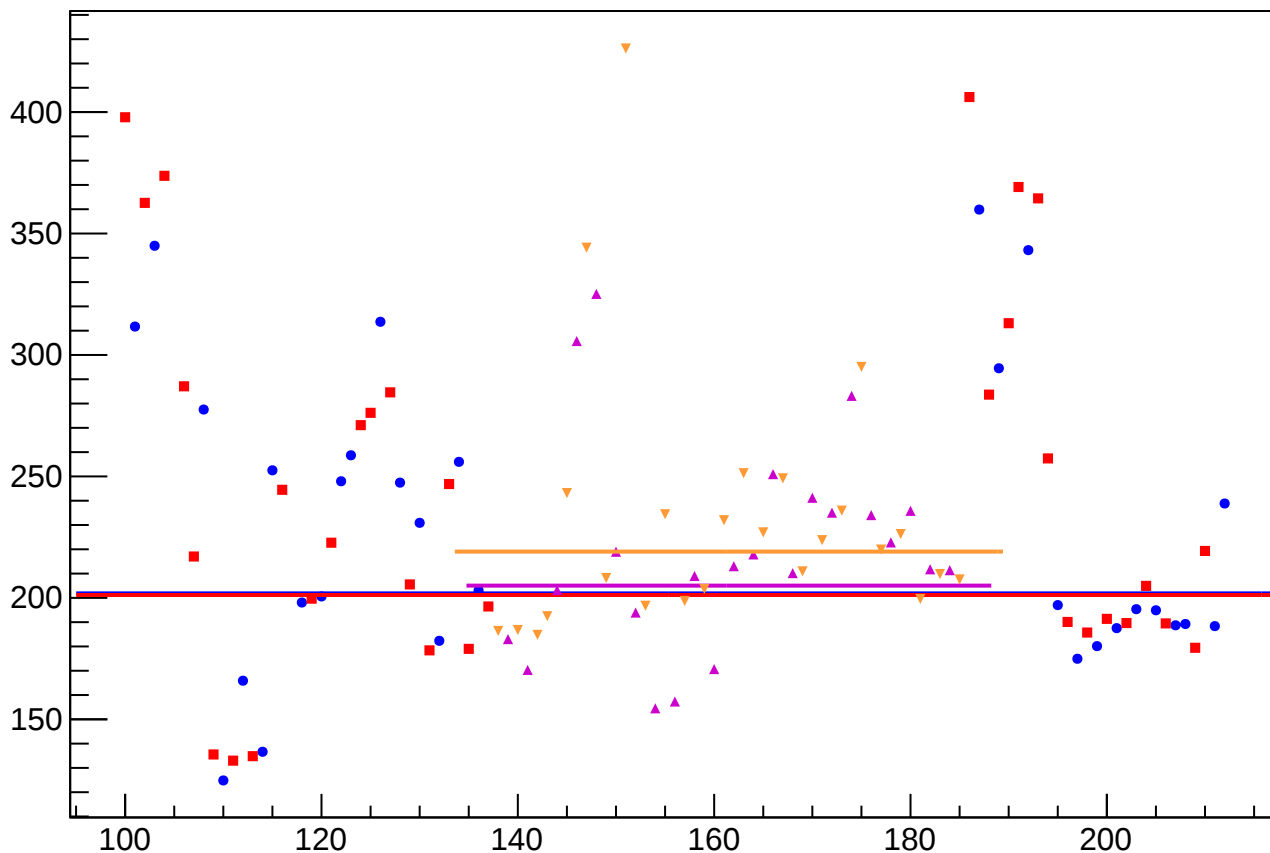
Right: 156.195 ± 36.991 $\chi^2/\text{NDF}: 18680.3/62$

In: 468.330 ± 36.541 $\chi^2/\text{NDF}: 9740.4/52$

Out: 233.823 ± 36.921 $\chi^2/\text{NDF}: 12104.8/57$

All: 352.289 ± 25.971 $\chi^2/\text{NDF}: 21865.6/110$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 201.848 $\pm$ 0.037 χ^2/NDF : 1531967.0/29

Left Out: 219.049 $\pm$ 0.037 χ^2/NDF :975564.4/24

Right Out: 201.191 $\pm$ 0.037 χ^2/NDF : 2325445.0/32

Left In: 205.046 $\pm$ 0.036 χ^2/NDF :1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2/NDF : 2193394.9/47

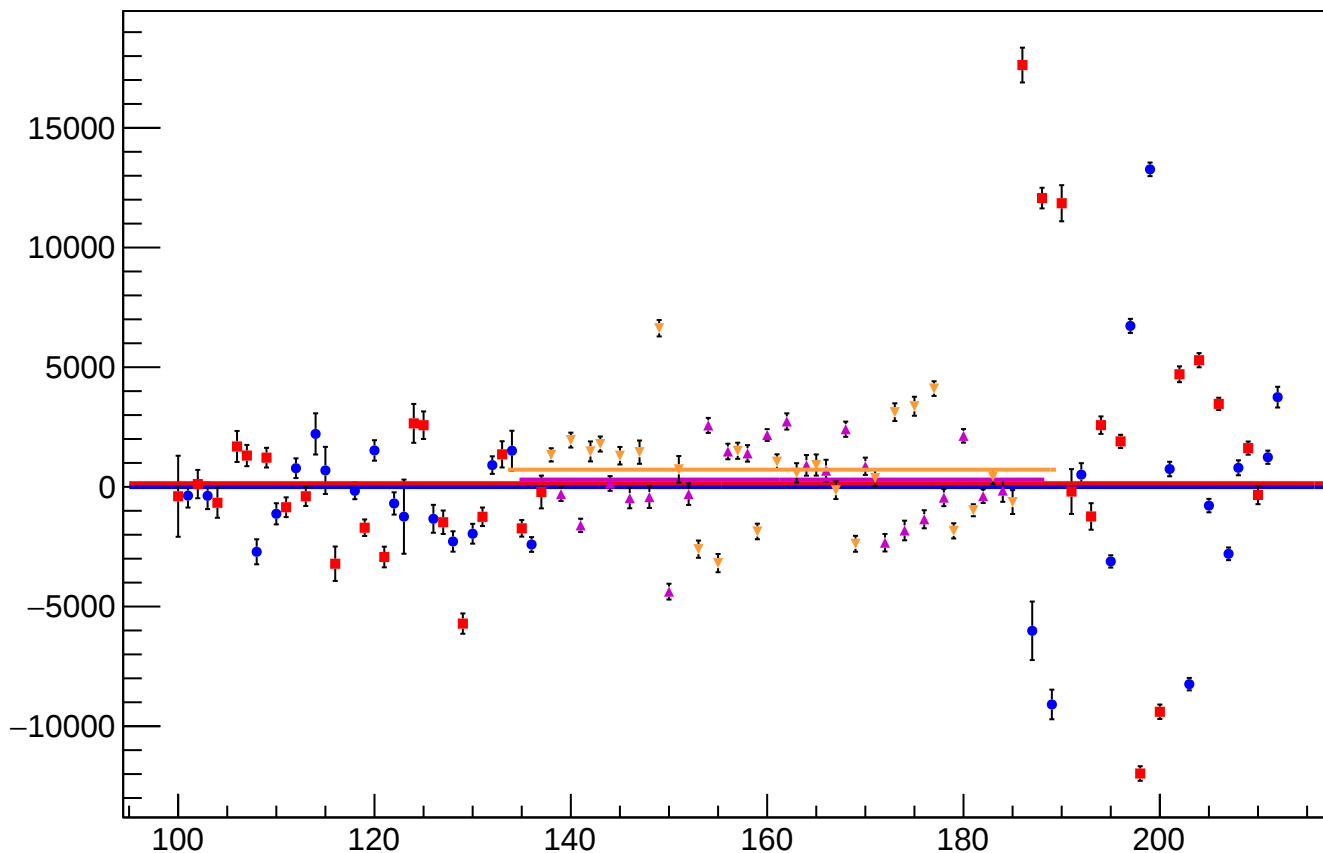
Right: 201.517 $\pm$ 0.026 χ^2/NDF : 3857569.7/62

In: 203.497 $\pm$ 0.026 χ^2/NDF :2679991.0/52

Out: 210.088 $\pm$ 0.026 χ^2/NDF :3417979.6/57

All: 206.759 $\pm$ 0.018 χ^2/NDF : 6130163.0/110

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -7.556 ± 69.948 $\chi^2/\text{NDF}: 4502.3/29$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 152.919 ± 72.028 $\chi^2/\text{NDF}: 5353.8/32$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

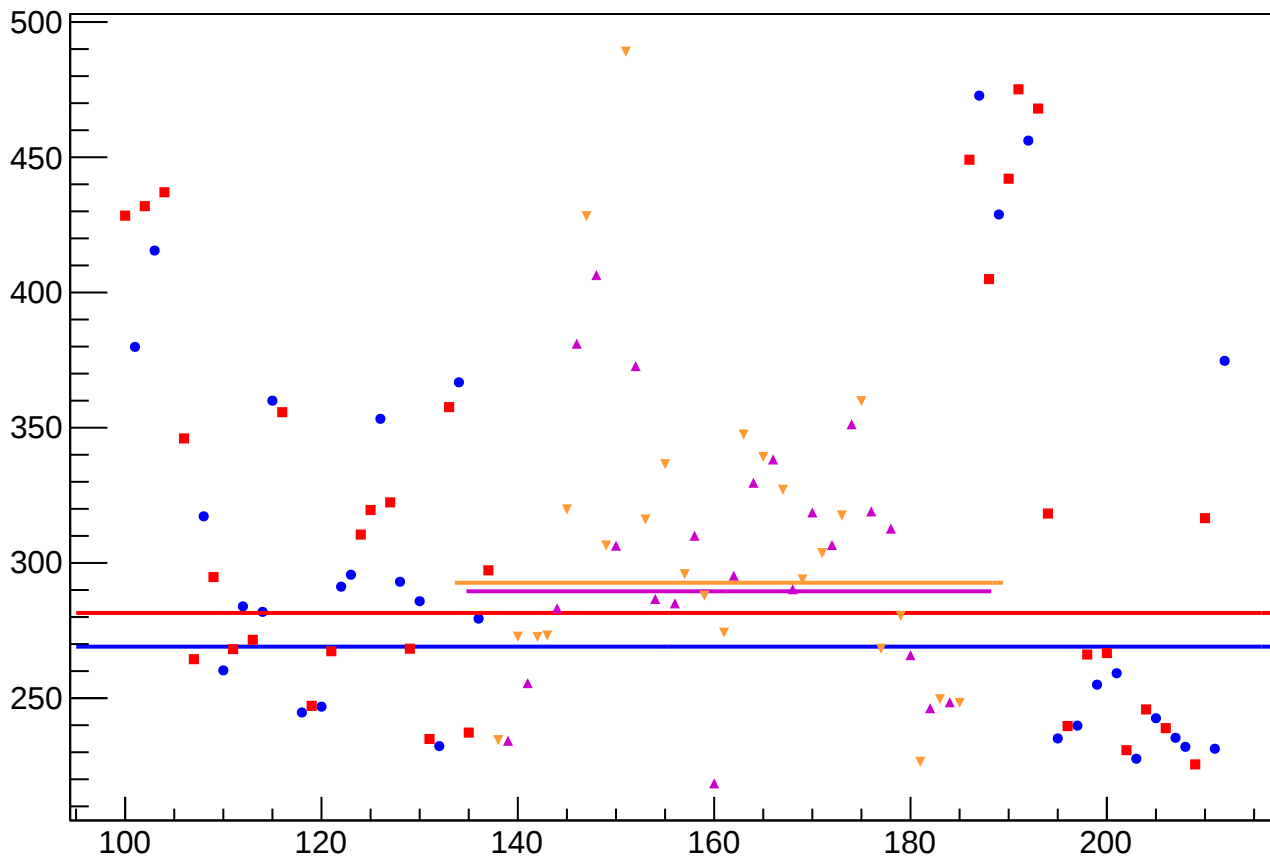
Right: 70.332 ± 50.180 $\chi^2/\text{NDF}: 9858.6/62$

In: 146.070 ± 49.814 $\chi^2/\text{NDF}: 5155.6/52$

Out: 445.505 ± 50.051 $\chi^2/\text{NDF}: 6404.2/57$

All: 295.076 ± 35.307 $\chi^2/\text{NDF}: 11577.8/110$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 269.048 $\pm$ 0.049 χ^2/NDF : 1236530.8/29

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 281.515 $\pm$ 0.051 χ^2/NDF : 1446219.1/32

Left In: 289.522 $\pm$ 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2/NDF : 1705121.5/47

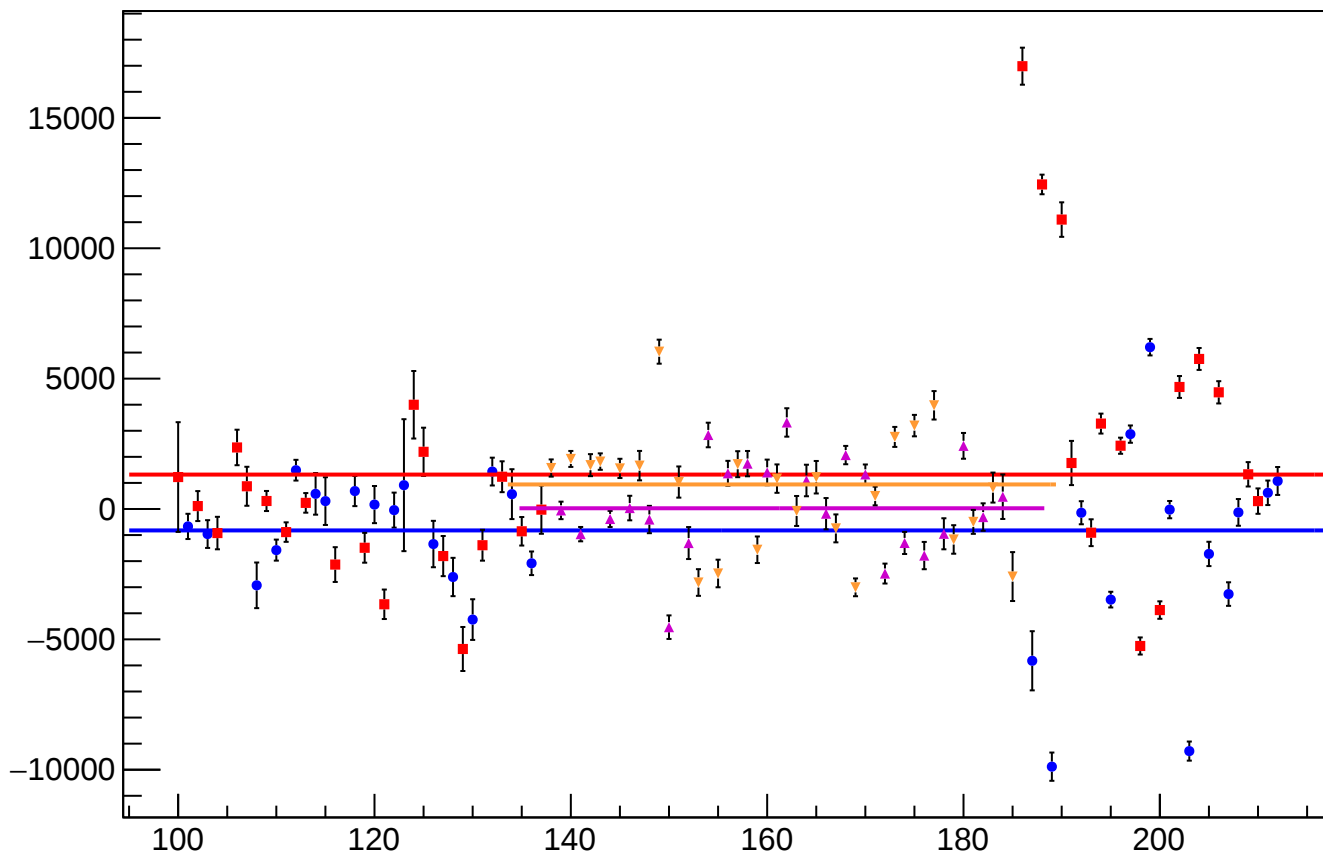
Right: 275.099 $\pm$ 0.035 χ^2/NDF : 2713587.1/62

In: 279.138 $\pm$ 0.035 χ^2/NDF : 2098877.0/52

Out: 287.292 $\pm$ 0.035 χ^2/NDF : 2396289.9/57

All: 283.196 $\pm$ 0.025 χ^2/NDF : 4521831.9/110

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -822.034+/-90.094 χ^2/NDF : 1703.8/29

Left Out: 941.598+/-89.119 χ^2/NDF : 544.6/24

Right Out: 1319.816+/-87.081 χ^2/NDF : 2838.2/32

Left In: 27.763+/-92.331 χ^2/NDF : 362.5/22

Left: 500.853+/-64.122 χ^2/NDF : 957.8/47

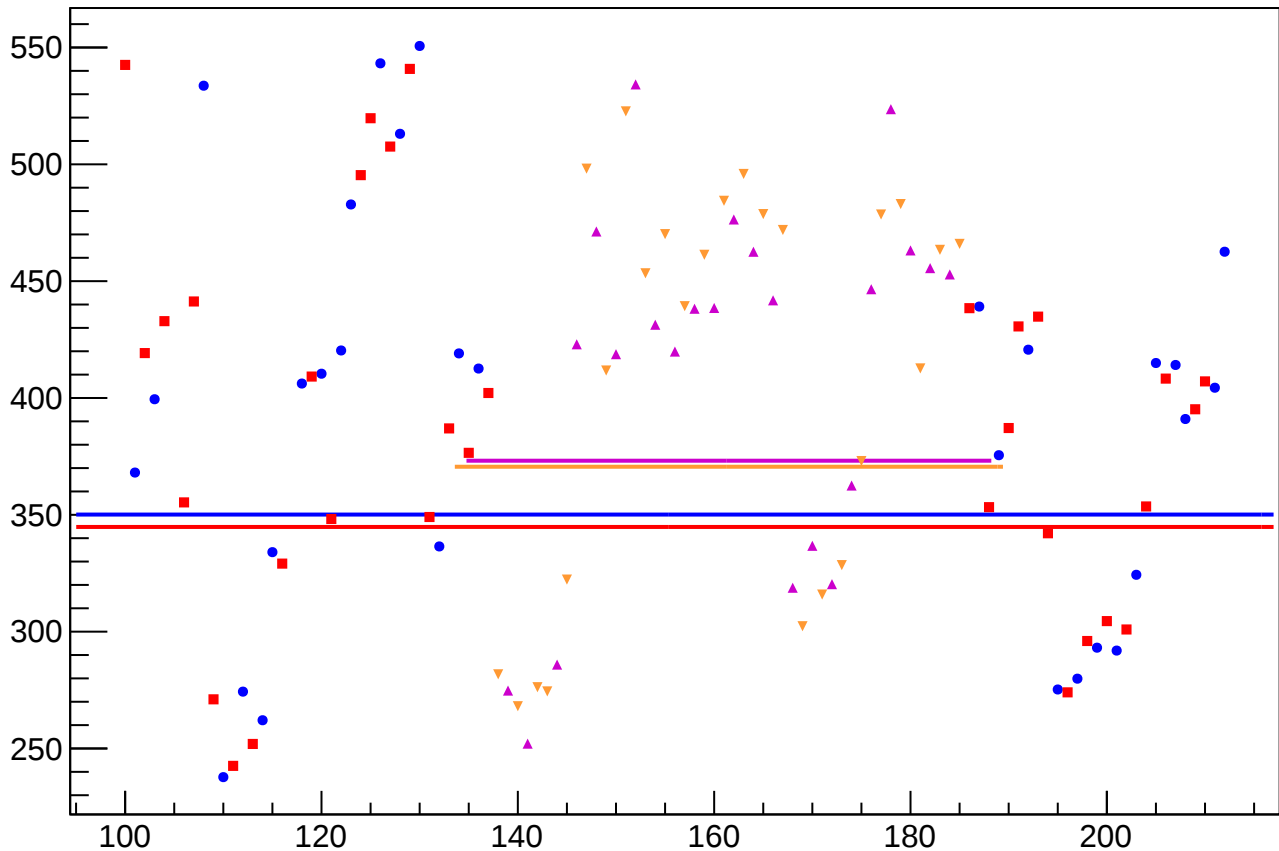
Right: 285.315+/-62.614 χ^2/NDF : 4834.2/62

In: -407.553+/-64.483 χ^2/NDF : 2109.7/52

Out: 1135.082+/-62.283 χ^2/NDF : 3392.0/57

All: 390.519+/-44.798 χ^2/NDF : 5797.8/110

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 350.112 ± 0.064 χ^2/NDF : 1419638.0/29

Left Out: 370.580 ± 0.063 χ^2/NDF : 1878118.9/24

Right Out: 344.810 ± 0.062 χ^2/NDF : 1243536.9/32

Left In: 373.161 ± 0.065 χ^2/NDF : 1636244.2/22

Left: 371.824 ± 0.045 χ^2/NDF : 3515172.3/47

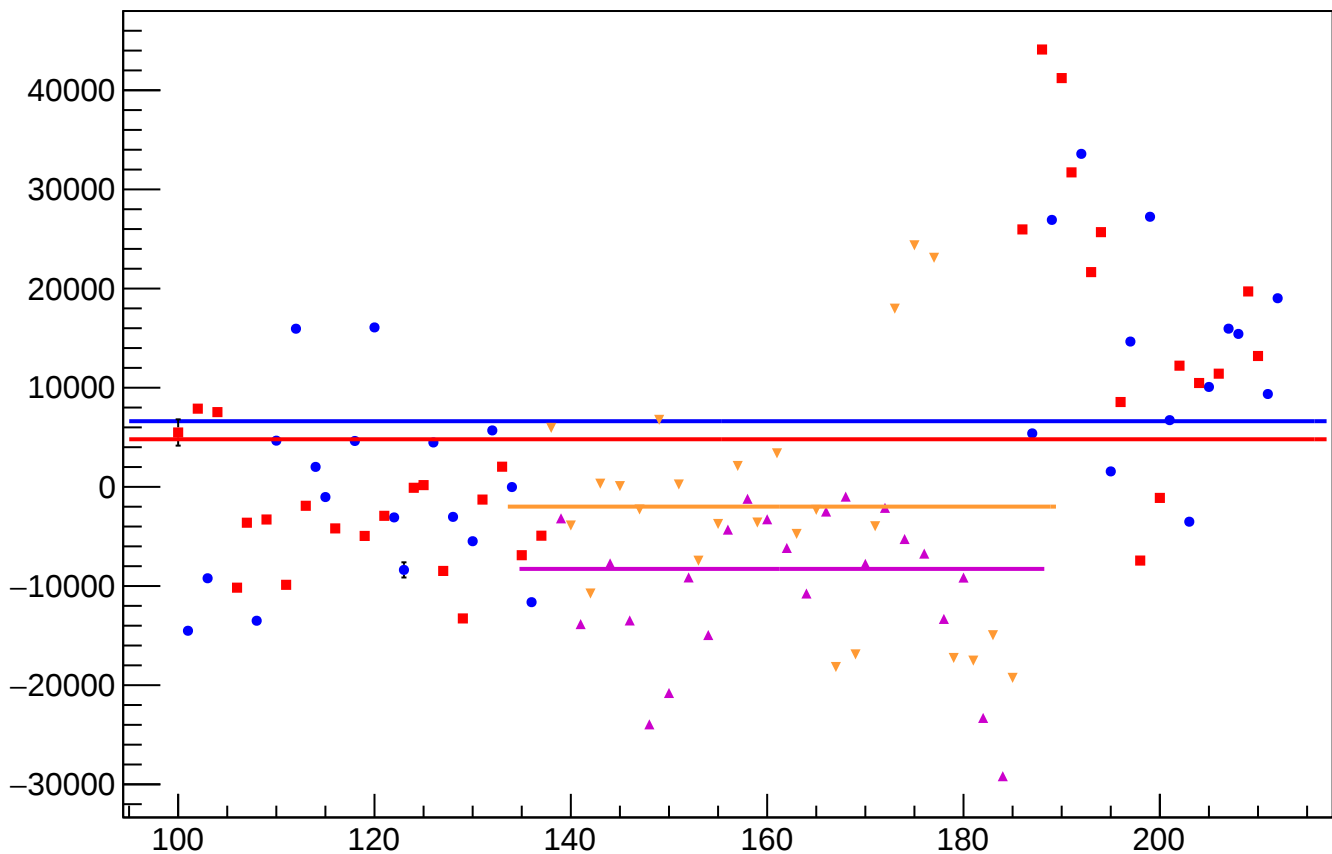
Right: 347.370 ± 0.044 χ^2/NDF : 2666756.2/62

In: 361.354 ± 0.046 χ^2/NDF : 3119727.6/52

Out: 357.396 ± 0.044 χ^2/NDF : 3207206.7/57

All: 359.306 ± 0.032 χ^2/NDF : 6330831.0/110

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6622.962+/-40.682 χ^2/NDF : 93694.9/29

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4800.731+/-39.257 χ^2/NDF : 140649.7/32

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

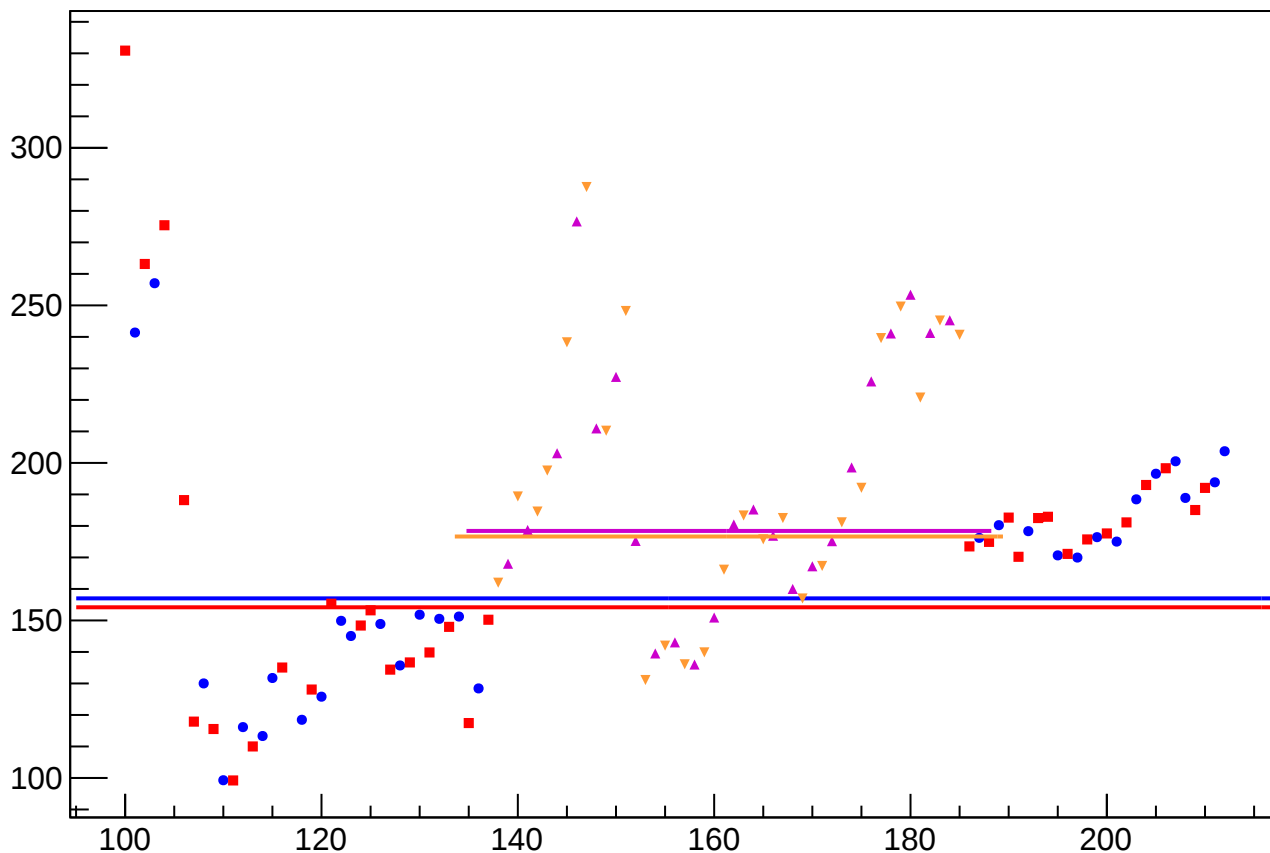
Right: 5679.361+/-28.249 χ^2/NDF : 235383.6/62

In: -191.922+/-29.964 χ^2/NDF : 177902.6/52

Out: 1667.696+/-28.814 χ^2/NDF : 218225.6/57

All: 774.265+/-20.769 χ^2/NDF : 398129.3/110

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 157.009 ± 0.029 χ^2/NDF : 1431781.2/29

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 154.176 ± 0.028 χ^2/NDF : 1631280.8/32

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

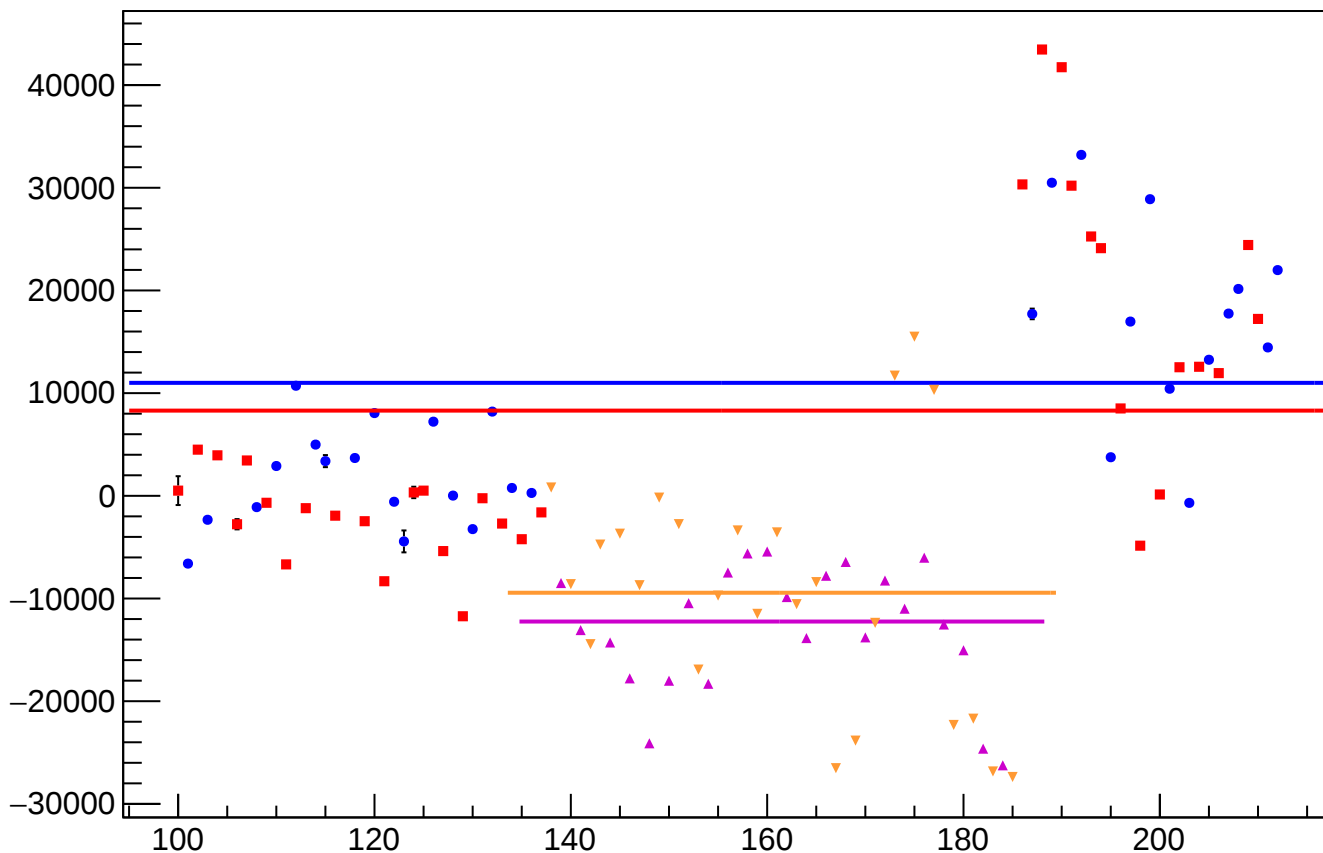
Right: 155.542 ± 0.020 χ^2/NDF : 3068084.3/62

In: 166.801 ± 0.021 χ^2/NDF : 2978810.9/52

Out: 164.538 ± 0.020 χ^2/NDF : 3484435.0/57

All: 165.625 ± 0.015 χ^2/NDF : 6469175.2/110

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11002.209 $\pm$ 45.159

χ^2/NDF : 55126.9/29

Left: -10889.638 $\pm$ 31.621 χ^2/NDF : 80800.7/47

Right: 9605.547 $\pm$ 31.394 χ^2/NDF : 169332.4/62

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

In: -936.772 $\pm$ 31.494 χ^2/NDF : 207824.3/52

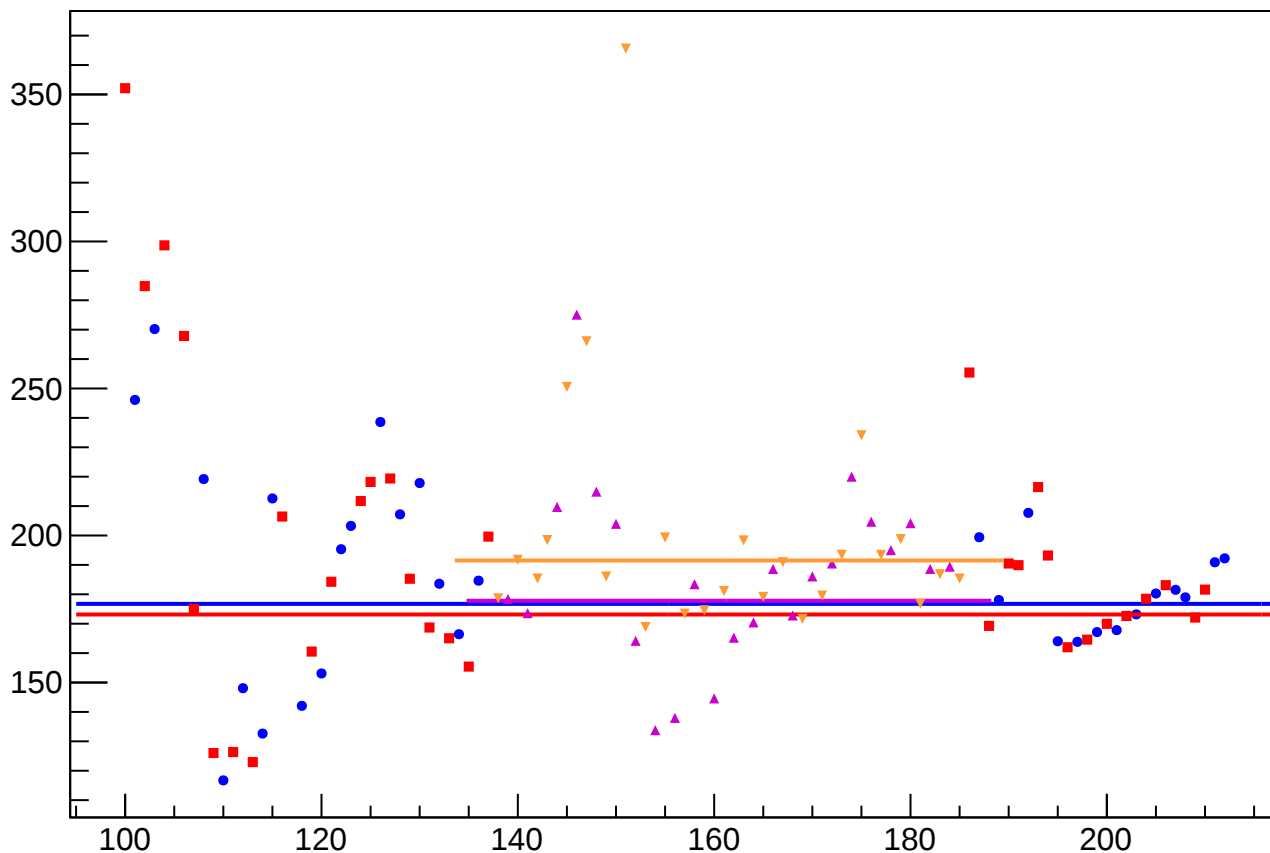
Out: -199.576 $\pm$ 31.520 χ^2/NDF : 253599.3/57

Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: -568.474 $\pm$ 22.279 χ^2/NDF : 461697.3/111

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.743+/-0.032 χ^2/NDF : 781849.5/29

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.132+/-0.031 χ^2/NDF : 1134860.5/32

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

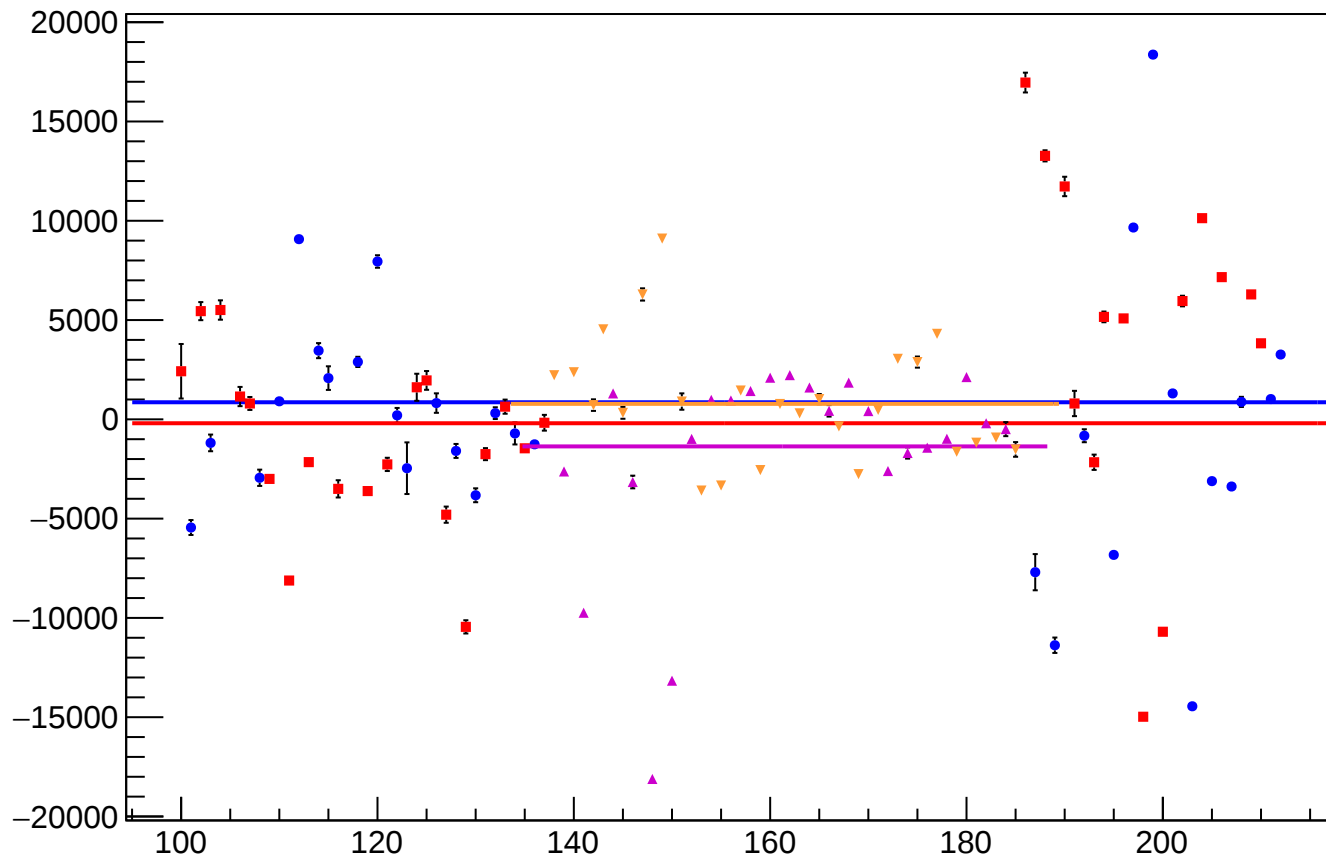
Right: 174.877+/-0.022 χ^2/NDF : 1923318.8/62

In: 177.297+/-0.022 χ^2/NDF : 1644929.6/52

Out: 181.936+/-0.022 χ^2/NDF : 2031742.8/57

All: 179.615+/-0.016 χ^2/NDF : 3698355.6/110

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 859.868 ± 50.602 $\chi^2/\text{NDF}: 20439.0/29$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -196.651 ± 49.179 $\chi^2/\text{NDF}: 21662.5/32$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

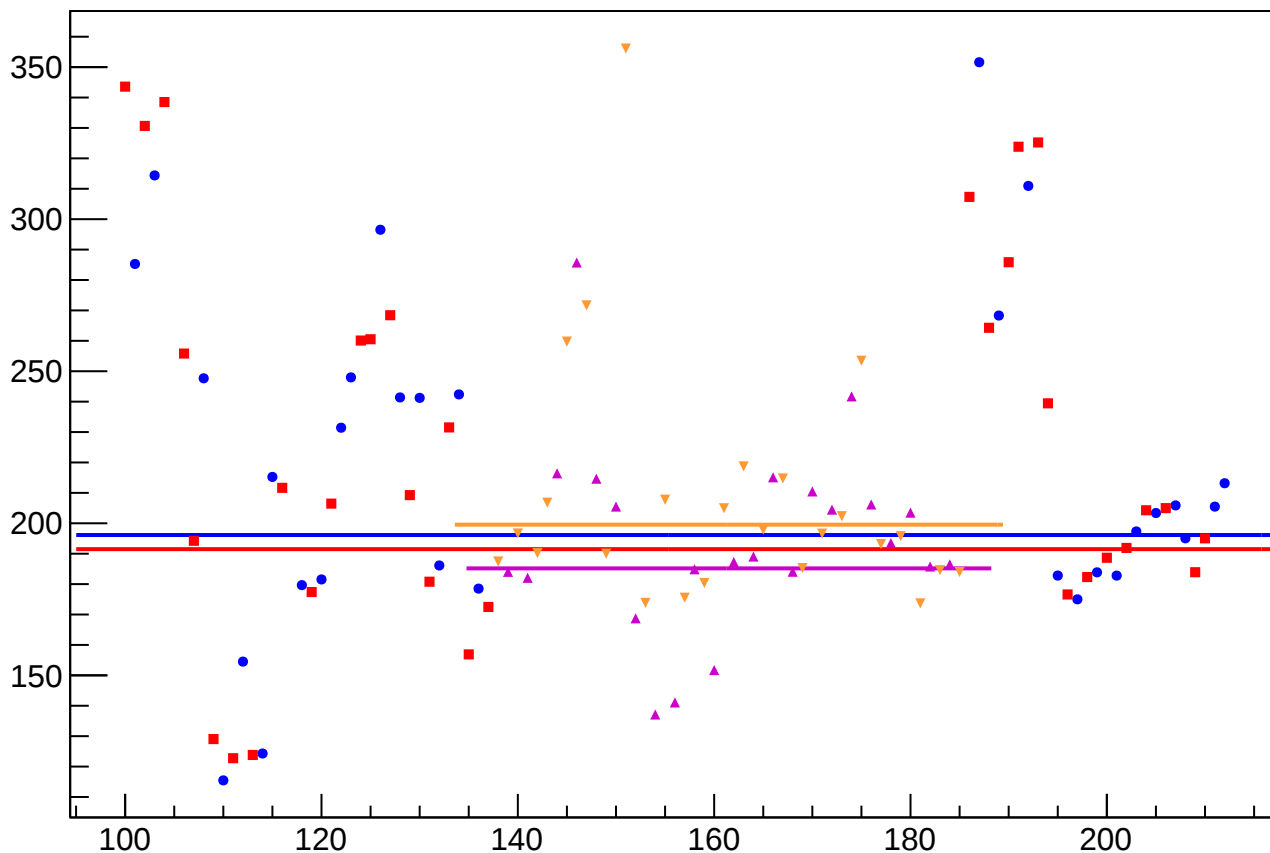
Right: 316.548 ± 35.267 $\chi^2/\text{NDF}: 42325.7/62$

In: -361.874 ± 33.959 $\chi^2/\text{NDF}: 33132.5/52$

Out: 309.059 ± 34.150 $\chi^2/\text{NDF}: 26127.5/57$

All: -28.285 ± 24.080 $\chi^2/\text{NDF}: 59454.1/110$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 196.143 ± 0.036 $\chi^2/\text{NDF}: 1429138.2/29$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 191.495 ± 0.035 $\chi^2/\text{NDF}: 2145201.1/32$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

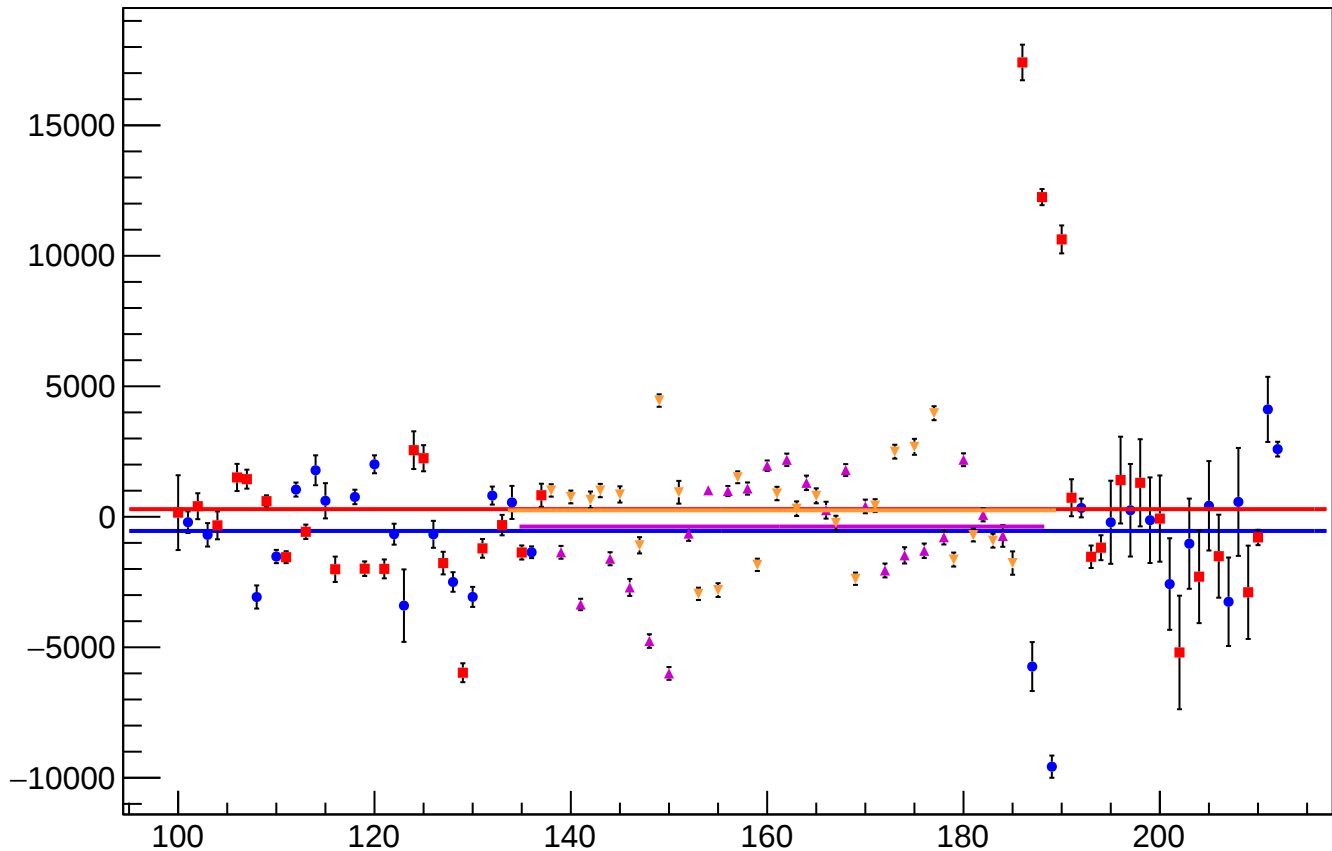
Right: 193.753 ± 0.025 $\chi^2/\text{NDF}: 3583015.0/62$

In: 190.112 ± 0.024 $\chi^2/\text{NDF}: 2363571.9/52$

Out: 195.664 ± 0.024 $\chi^2/\text{NDF}: 2902316.3/57$

All: 192.873 ± 0.017 $\chi^2/\text{NDF}: 5292469.3/110$

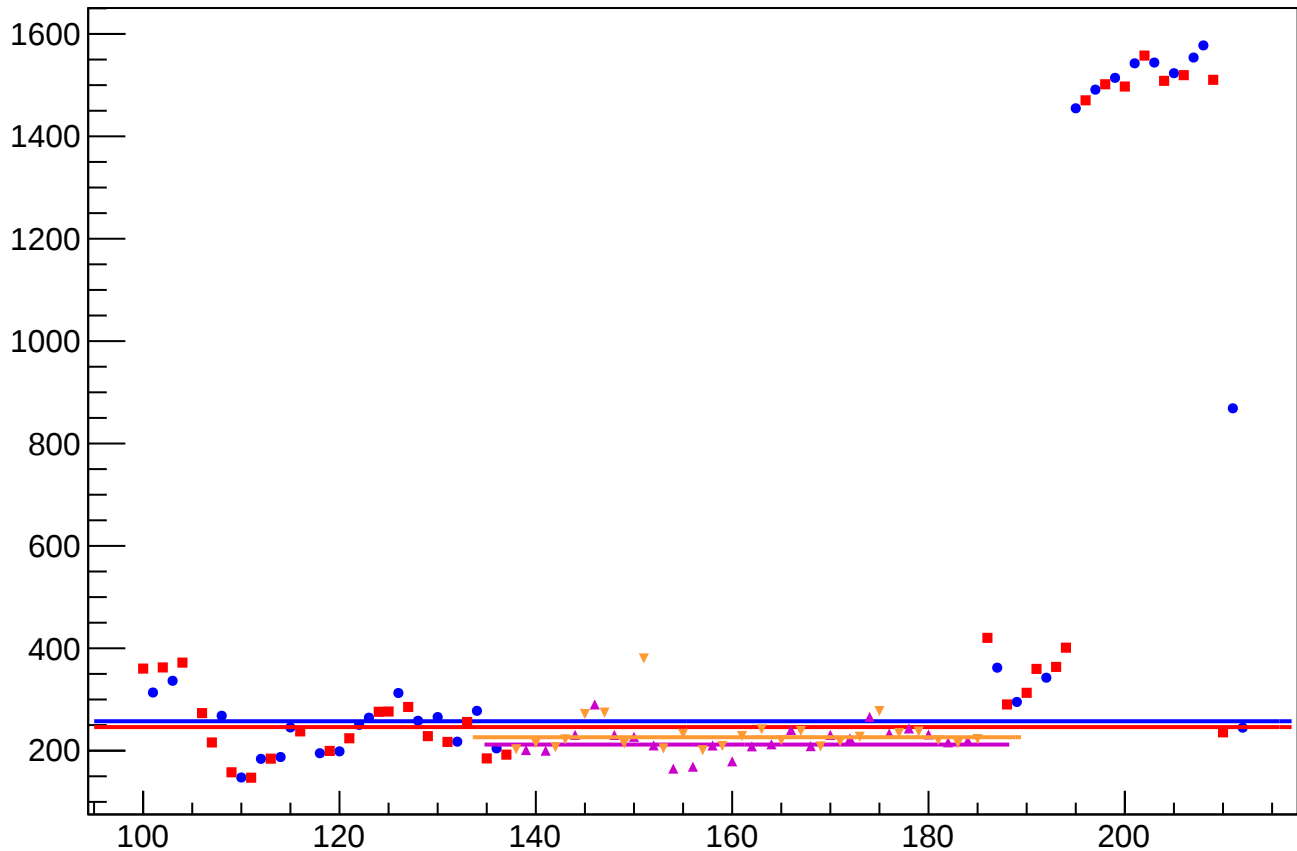
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -542.837 ± 79.807 $\chi^2/\text{NDF}: 913.3/29$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 293.017 ± 72.609 $\chi^2/\text{NDF}: 3190.5/32$
 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: -85.520 ± 53.707 $\chi^2/\text{NDF}: 4163.9/62$
 In: -424.469 ± 43.597 $\chi^2/\text{NDF}: 2717.5/52$
 Out: 263.760 ± 43.099 $\chi^2/\text{NDF}: 4545.9/57$
 All: -76.407 ± 30.650 $\chi^2/\text{NDF}: 7389.4/110$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.520 +/- 0.056 χ^2/NDF : 10145731.7/29

Left Out: 226.322 +/- 0.038 χ^2/NDF : 521041.8/24

Right Out: 246.105 +/- 0.051 χ^2/NDF : 9273046.4/32

Left In: 211.970 +/- 0.037 χ^2/NDF : 584344.5/22

Left: 218.941 +/- 0.026 χ^2/NDF : 1179246.7/47

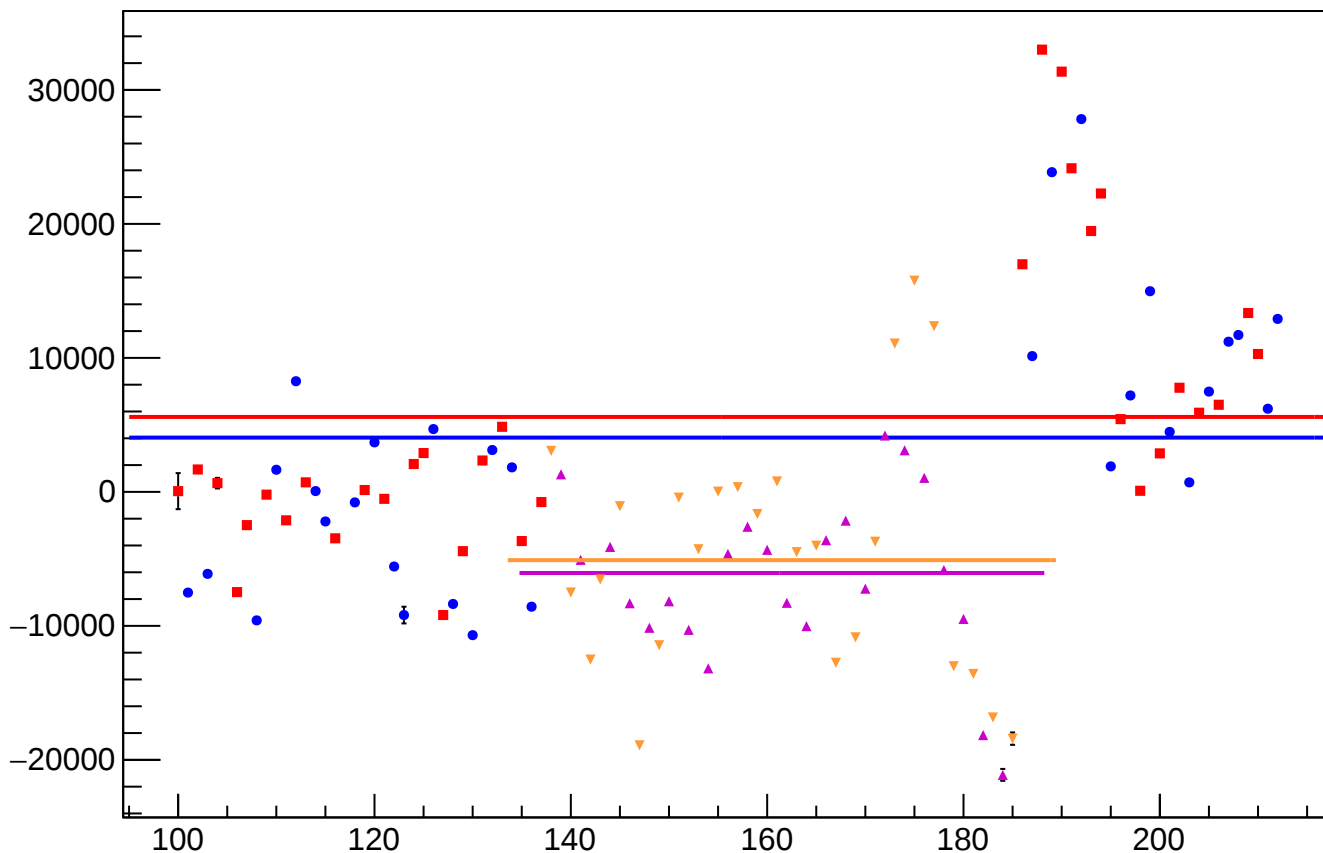
Right: 251.275 +/- 0.038 χ^2/NDF : 19441166.0/62

In: 225.563 +/- 0.031 χ^2/NDF : 11187172.9/52

Out: 233.292 +/- 0.030 χ^2/NDF : 9890248.6/57

All: 229.472 +/- 0.022 χ^2/NDF : 21109213.6/11

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4050.714+/-34.584

χ^2/NDF : 79411.8/29

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right: 4855.570+/-23.922

χ^2/NDF : 183912.0/62

Right Out: 5593.956+/-33.125

χ^2/NDF : 103461.7/32

In: -941.296+/-24.600

χ^2/NDF : 139174.8/52

Out: 341.831+/-23.625

χ^2/NDF : 209021.7/57

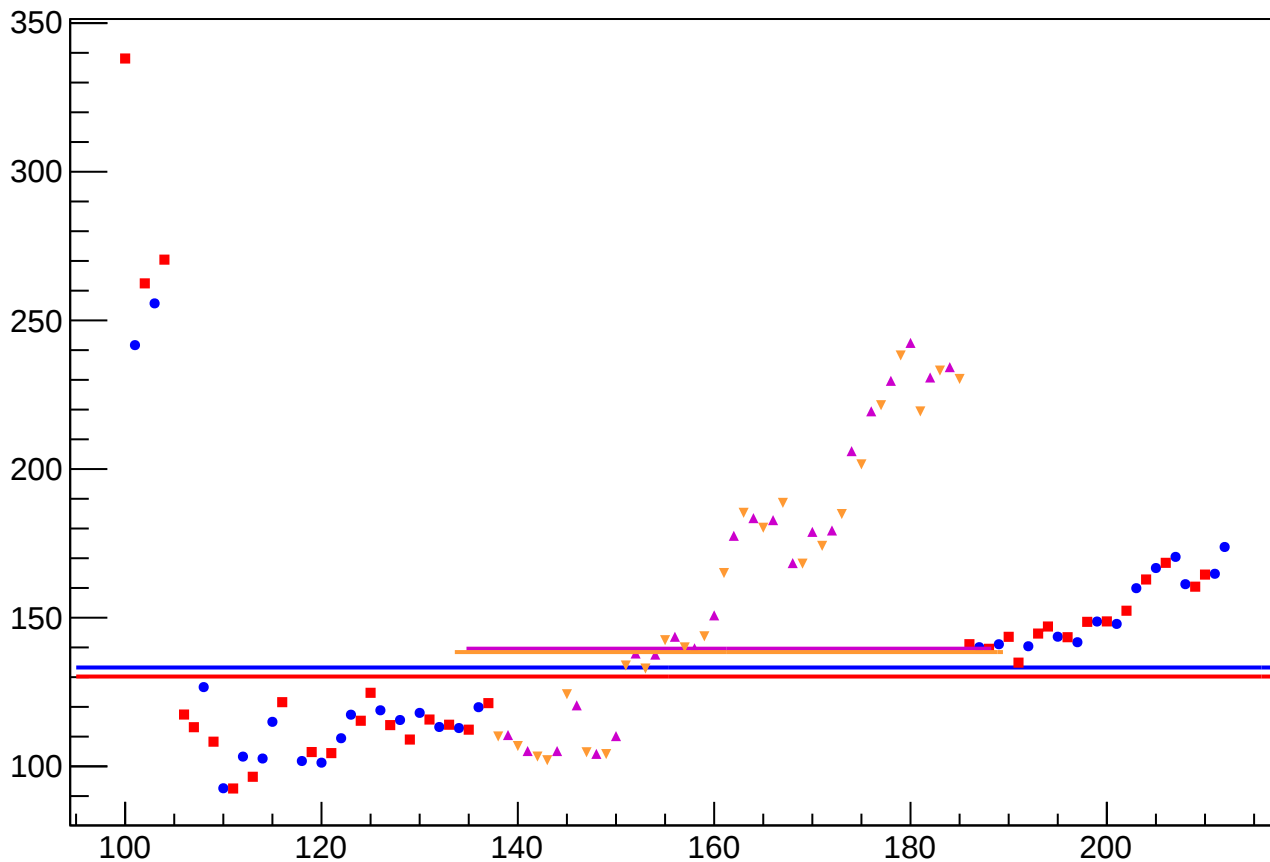
Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

All: -273.805+/-17.039

χ^2/NDF : 349611.8/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 133.251+/-0.024 χ^2/NDF : 1431895.6/29

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 130.210+/-0.023 χ^2/NDF : 1480201.6/32

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

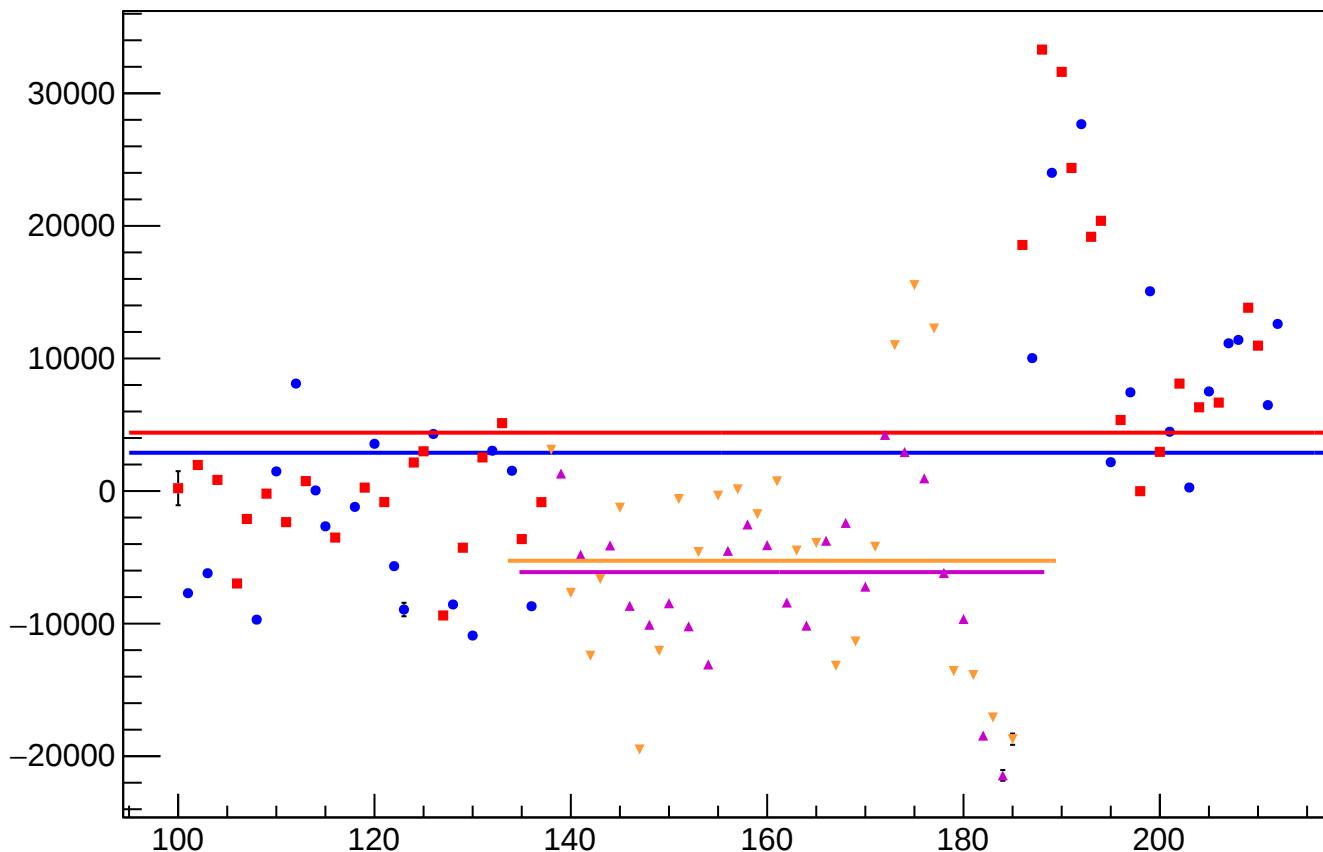
Right: 131.665+/-0.017 χ^2/NDF : 2920160.9/62

In: 136.377+/-0.017 χ^2/NDF :3878623.6/52

Out: 134.252+/-0.017 χ^2/NDF :4090231.6/57

All: 135.271+/-0.012 χ^2/NDF : 7976618.5/110

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 2888.275+/-31.004

χ^2/NDF : 89711.0/29

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right: 3675.327+/-21.494

χ^2/NDF : 203714.6/62

Right Out: 4403.588+/-29.824

χ^2/NDF : 112762.8/32

In: -1453.421+/-22.309

χ^2/NDF : 151636.5/52

Out: -298.489+/-21.365

χ^2/NDF : 228150.9/57

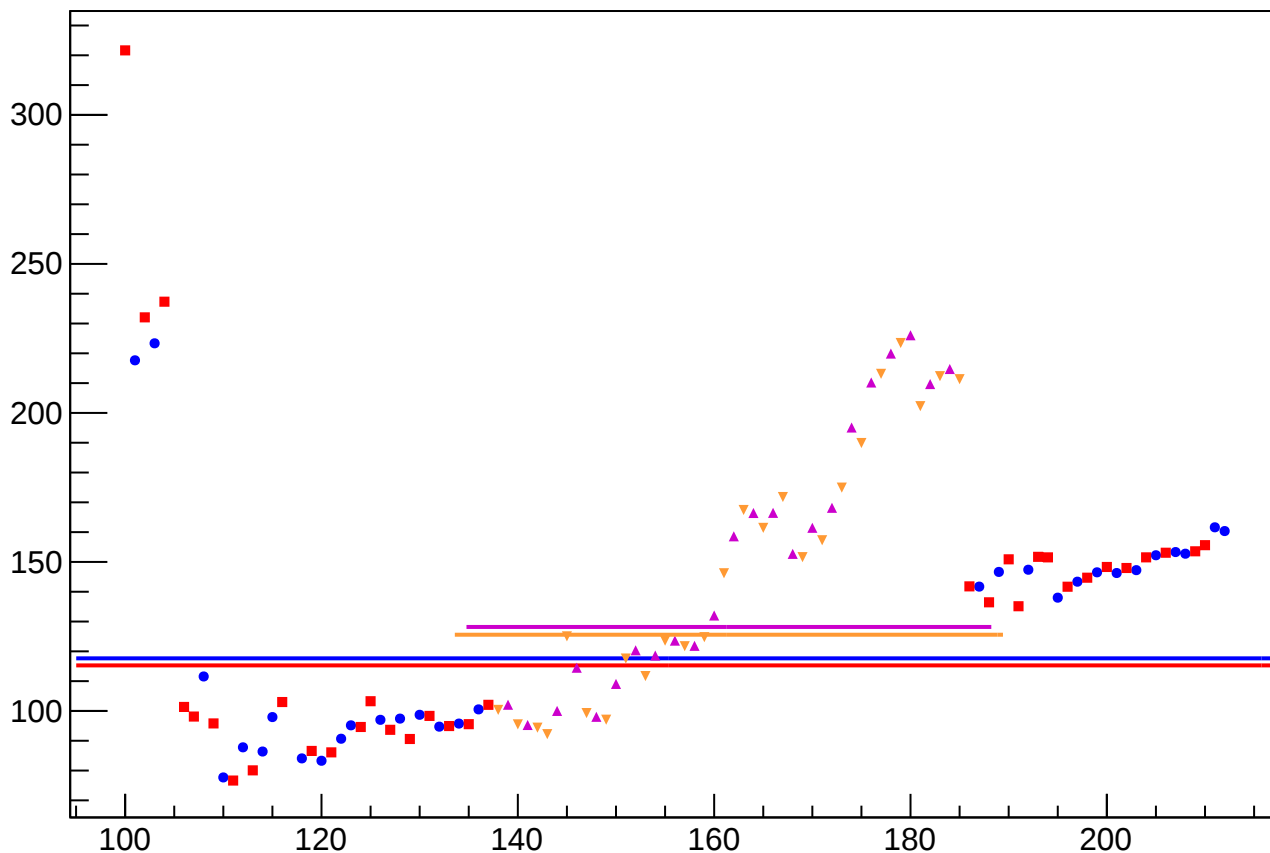
Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

All: -851.004+/-15.430

χ^2/NDF : 381185.4/11

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 117.651+/-0.022 χ^2/NDF : 2199057.1/29

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 115.284+/-0.021 χ^2/NDF : 2350414.4/32

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

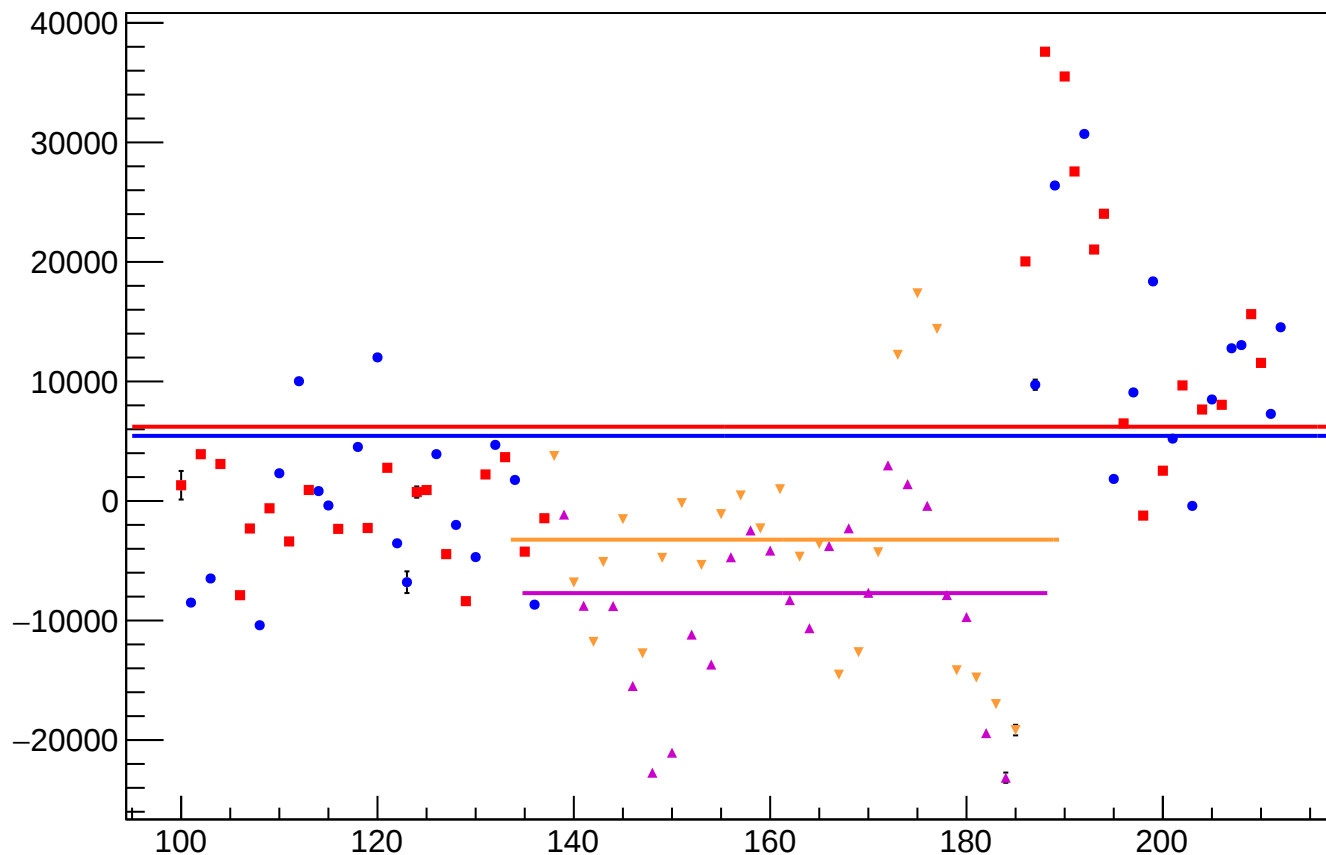
Right: 116.422+/-0.015 χ^2/NDF : 4555527.4/62

In: 122.730+/-0.016 χ^2/NDF : 4643334.9/52

Out: 120.295+/-0.015 χ^2/NDF : 5062137.0/57

All: 121.460+/-0.011 χ^2/NDF : 9717906.8/110

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5447.583+/-41.047 χ^2/NDF : 62537.4/29

Left Out: -3234.922+/-40.583 χ^2/NDF :36739.9/24

Right Out: 6213.936+/-39.385 χ^2/NDF : 92789.1/32

Left In: -7707.068+/-42.990 χ^2/NDF :21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

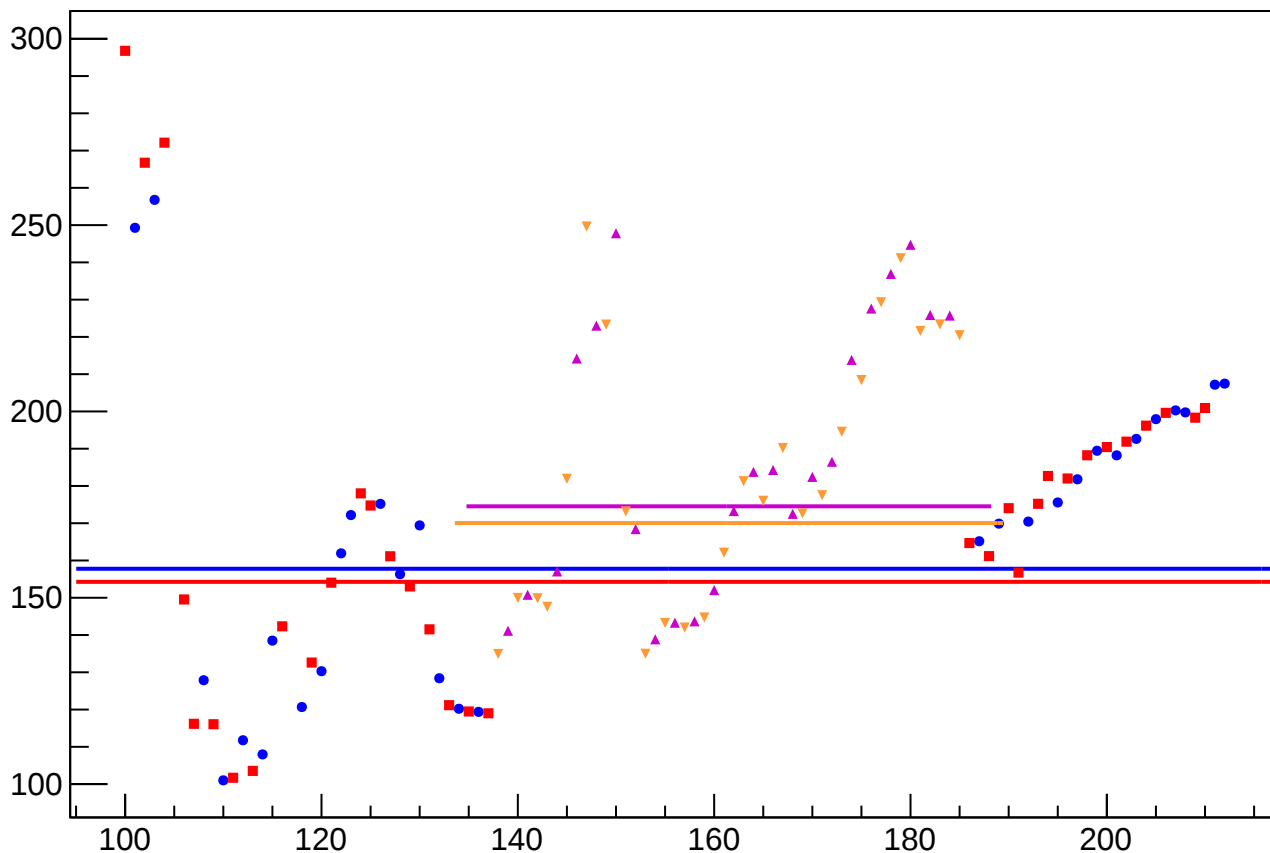
Right: 5846.586+/-28.419 χ^2/NDF : 155507.9/62

In: -825.810+/-29.688 χ^2/NDF :132785.2/52

Out: 1630.933+/-28.263 χ^2/NDF :157445.3/57

All: 462.906+/-20.470 χ^2/NDF : 293822.7/110

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 157.786 $\pm$ 0.029 χ^2/NDF : 1717931.1/29

Left Out: 170.050 $\pm$ 0.029 χ^2/NDF :1240866.9/24

Right Out: 154.279 $\pm$ 0.028 χ^2/NDF : 1794726.7/32

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

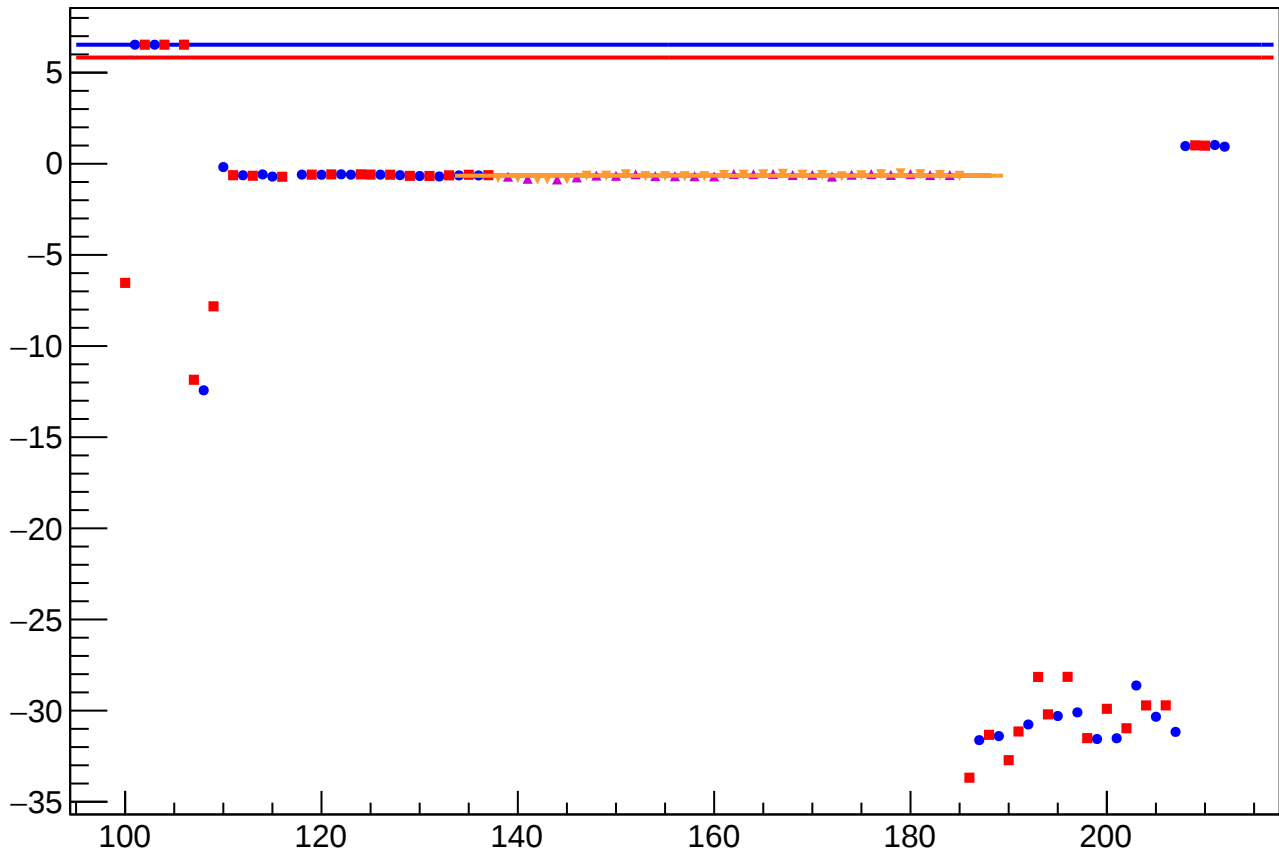
Right: 155.960 $\pm$ 0.020 χ^2/NDF : 3520261.9/62

In: 165.776 $\pm$ 0.021 χ^2/NDF :3086881.4/52

Out: 161.928 $\pm$ 0.020 χ^2/NDF :3191136.1/57

All: 163.757 $\pm$ 0.014 χ^2/NDF : 6295639.4/110

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 133635781401.3/29

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755950426043838.8/32

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

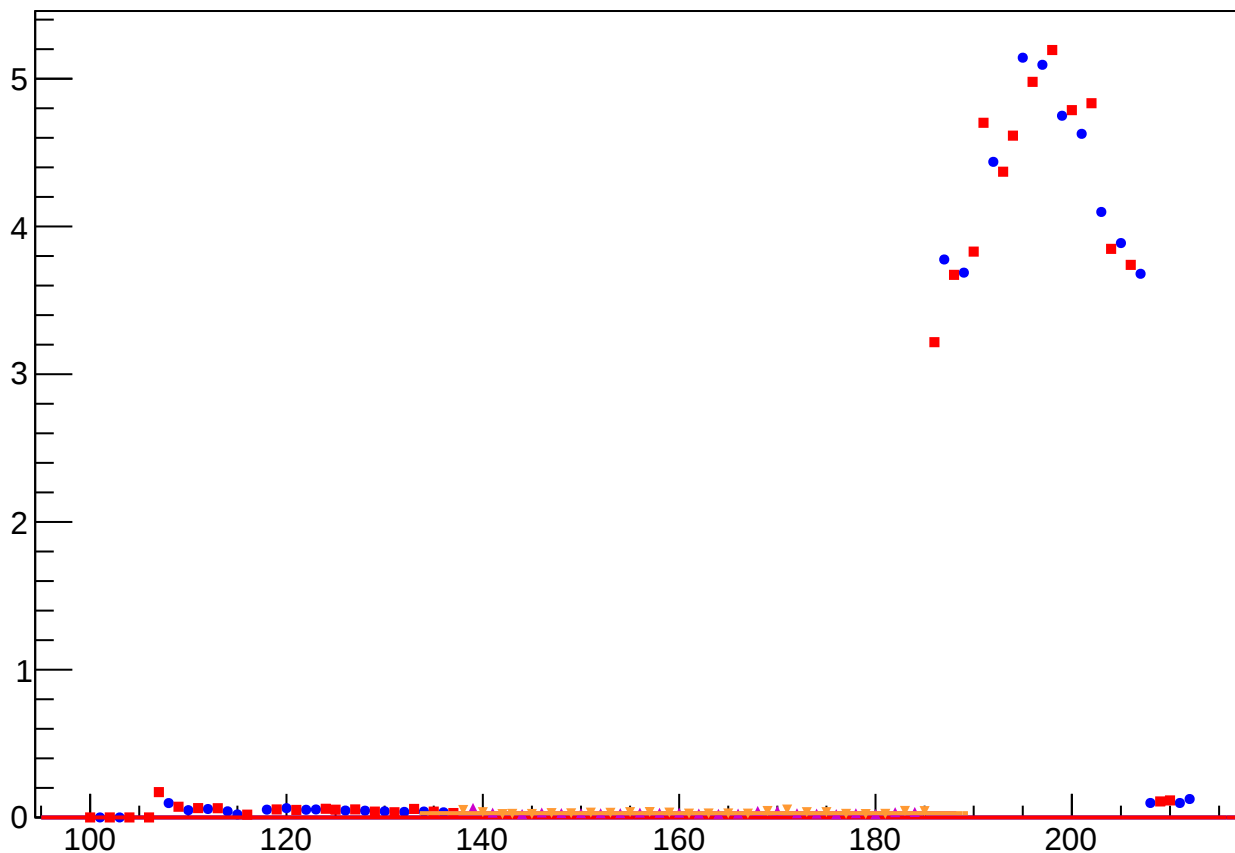
Right: 6.155+/-0.000 χ^2/NDF : 776086855817484.0/47

In: 6.530+/-0.000 χ^2/NDF : 958980103726.4/52

Out: 5.826+/-0.000 χ^2/NDF : 756659453359587.8/52

All: 6.153+/-0.000 χ^2/NDF : 77761022142736.4/99

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26969817.9/29

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27635673.2/32

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

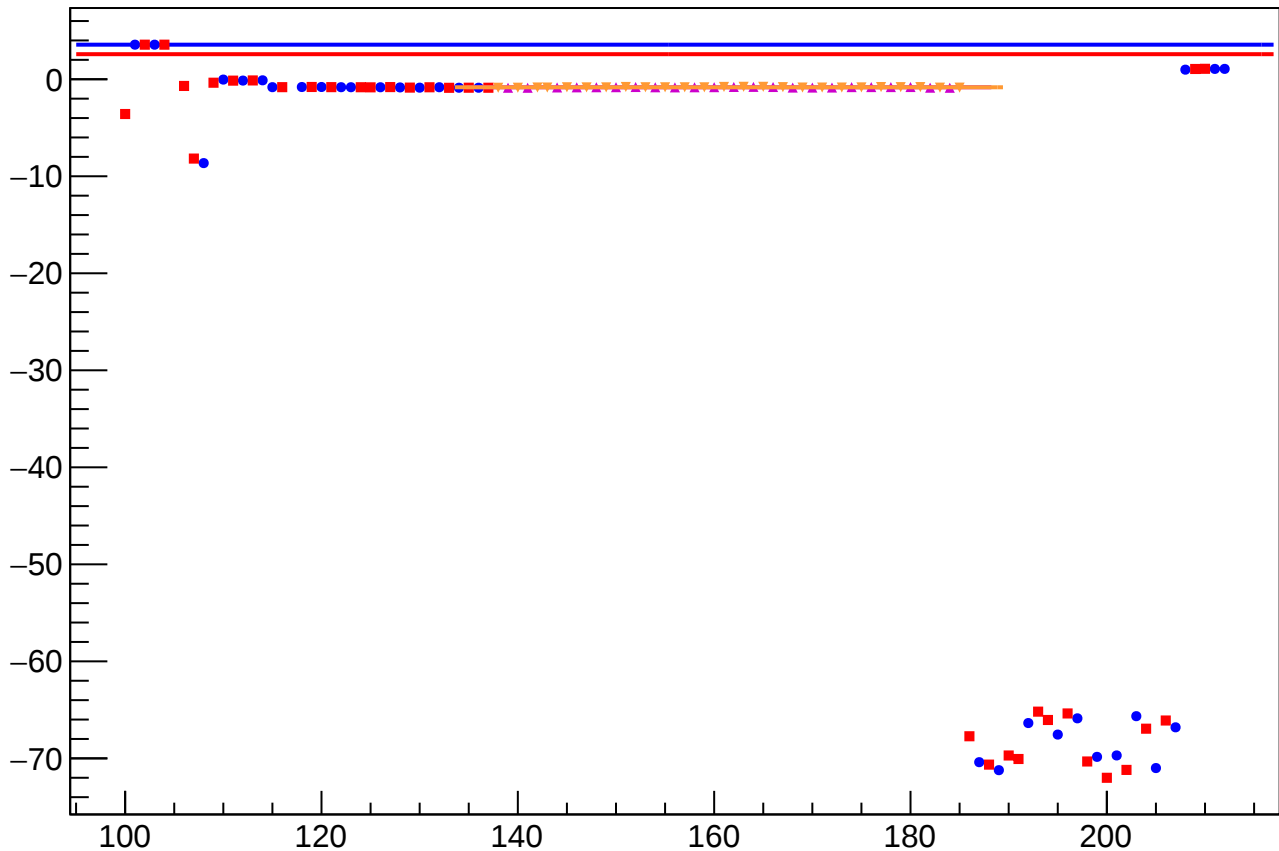
Right: 0.000+/-0.000 χ^2/NDF : 54605774.1/62

In: 0.000+/-0.000 χ^2/NDF :54931018.7/52

Out: 0.000+/-0.000 χ^2/NDF :57511060.9/57

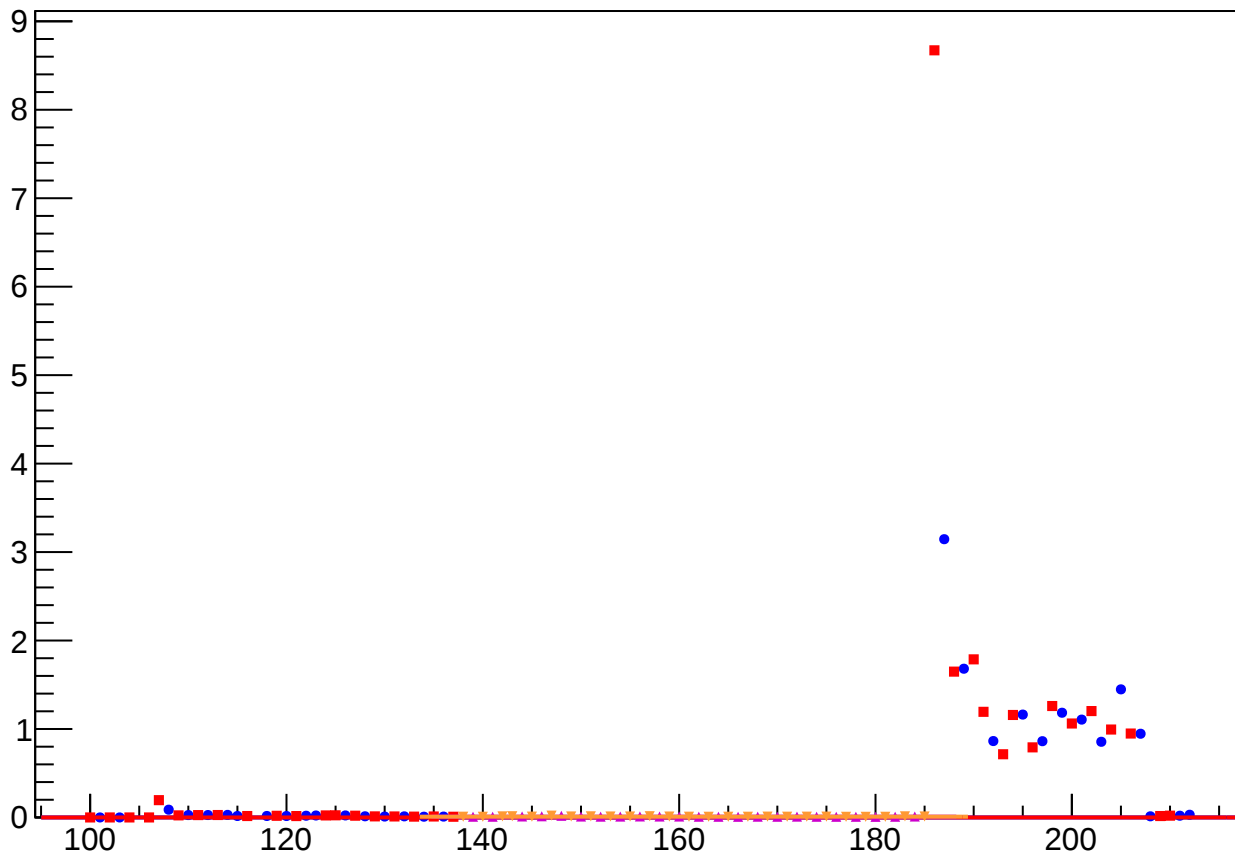
All: 0.000+/-0.000 χ^2/NDF : 112442537.5/110

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 544004847606.1/29	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382352826081533.1
Right Out: 2.583+/-0.000	χ^2/NDF : 1253543143513050.0/32	In: 3.560+/-0.000	χ^2/NDF : 4189671070580.1/52
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255765446186800.2
		All: 3.038+/-0.000	χ^2/NDF : 13880391979300.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24785366.6/29

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 25606310.1/32

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

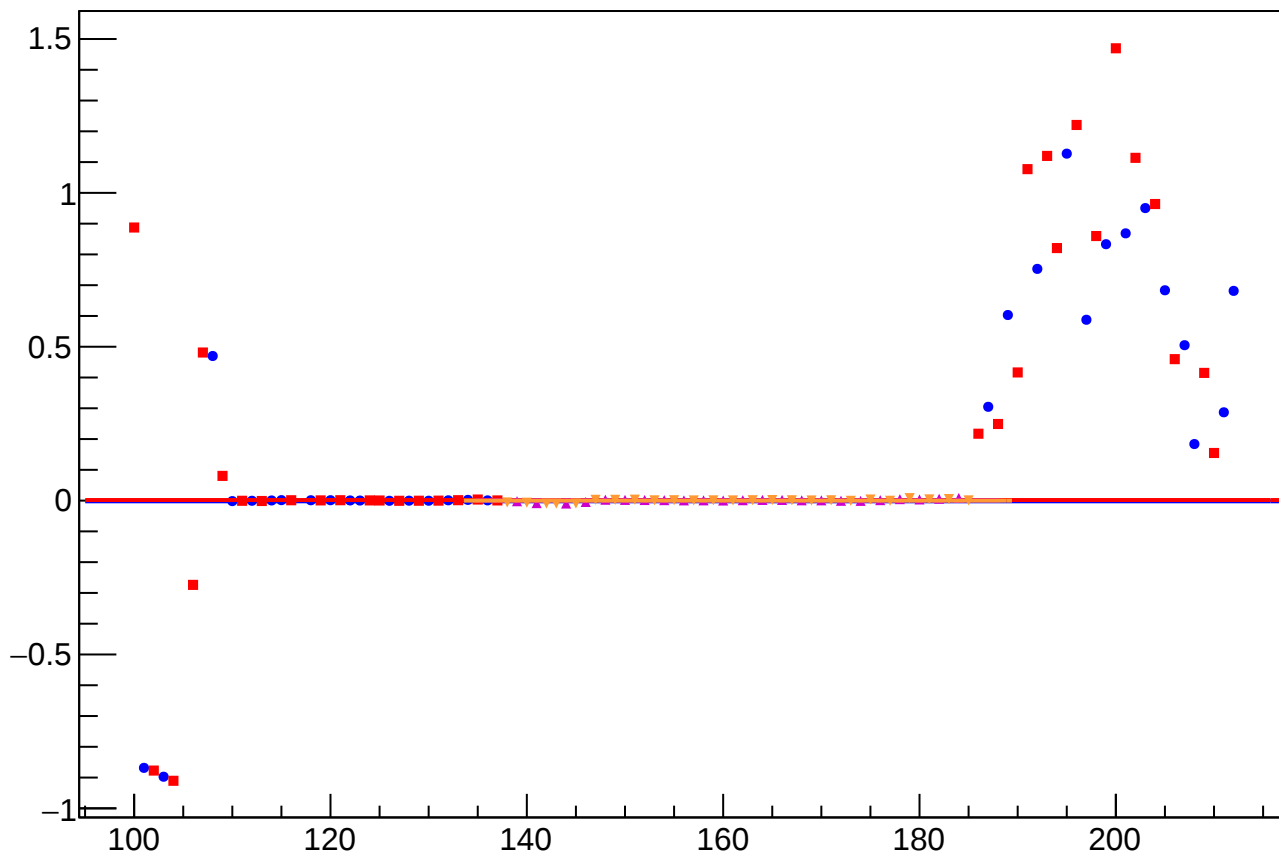
Right: 0.000+/-0.000 χ^2/NDF : 50392016.6/62

In: 0.000+/-0.000 χ^2/NDF :54319078.9/52

Out: 0.000+/-0.000 χ^2/NDF :57023200.5/57

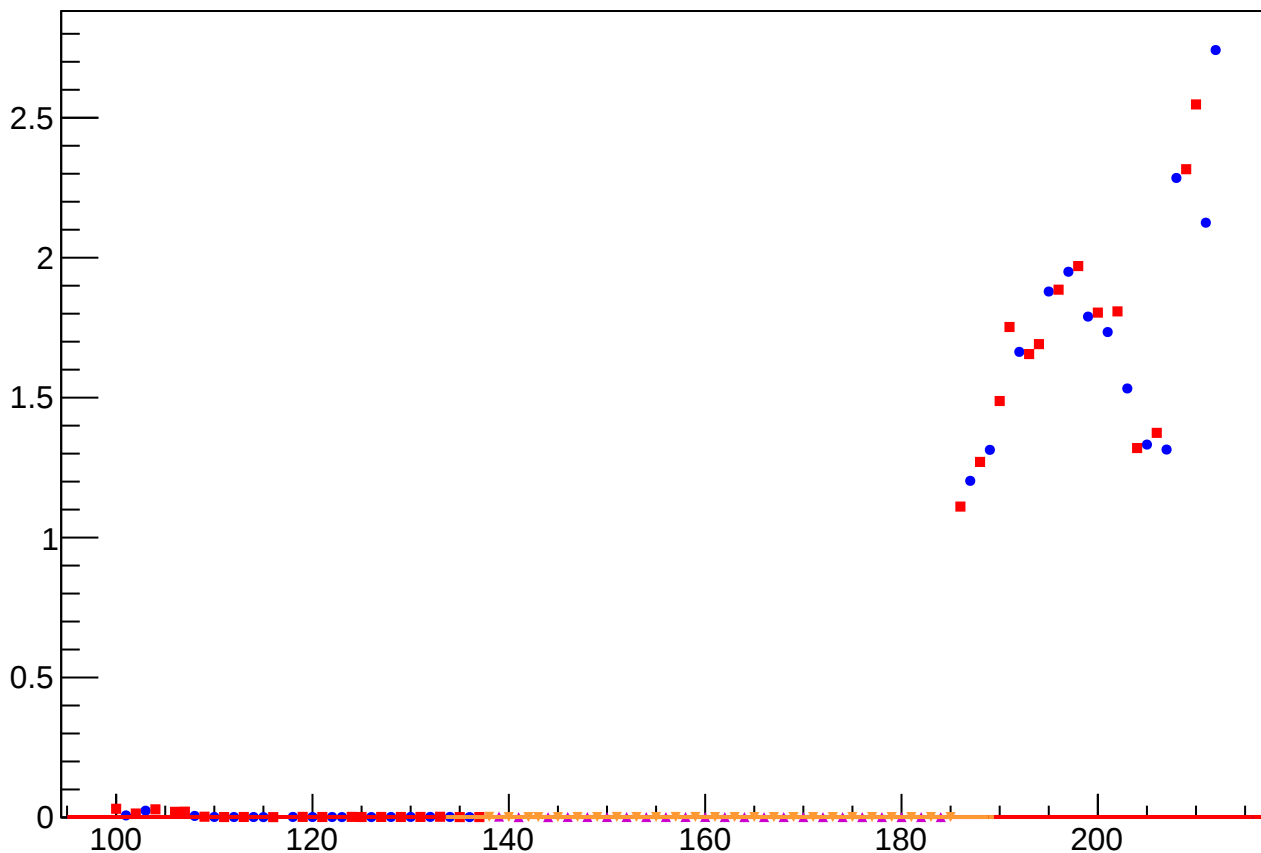
All: 0.000+/-0.000 χ^2/NDF : 111343128.4/110

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000	χ^2/NDF : 9797160328.4/29	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 : 12854632823.7/62
Right Out: 0.002+/-0.000	χ^2/NDF : 3043703417.5/32	In: -0.000+/-0.000	χ^2/NDF : 9909609769.8/52
Left In: 0.001+/-0.000	χ^2/NDF : 101439617.3/22	Out: 0.000+/-0.000	χ^2/NDF : 3199920486.8/57
		All: 0.000+/-0.000	χ^2/NDF : 13109867263.9/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19854351.9/29

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21264689.8/32

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

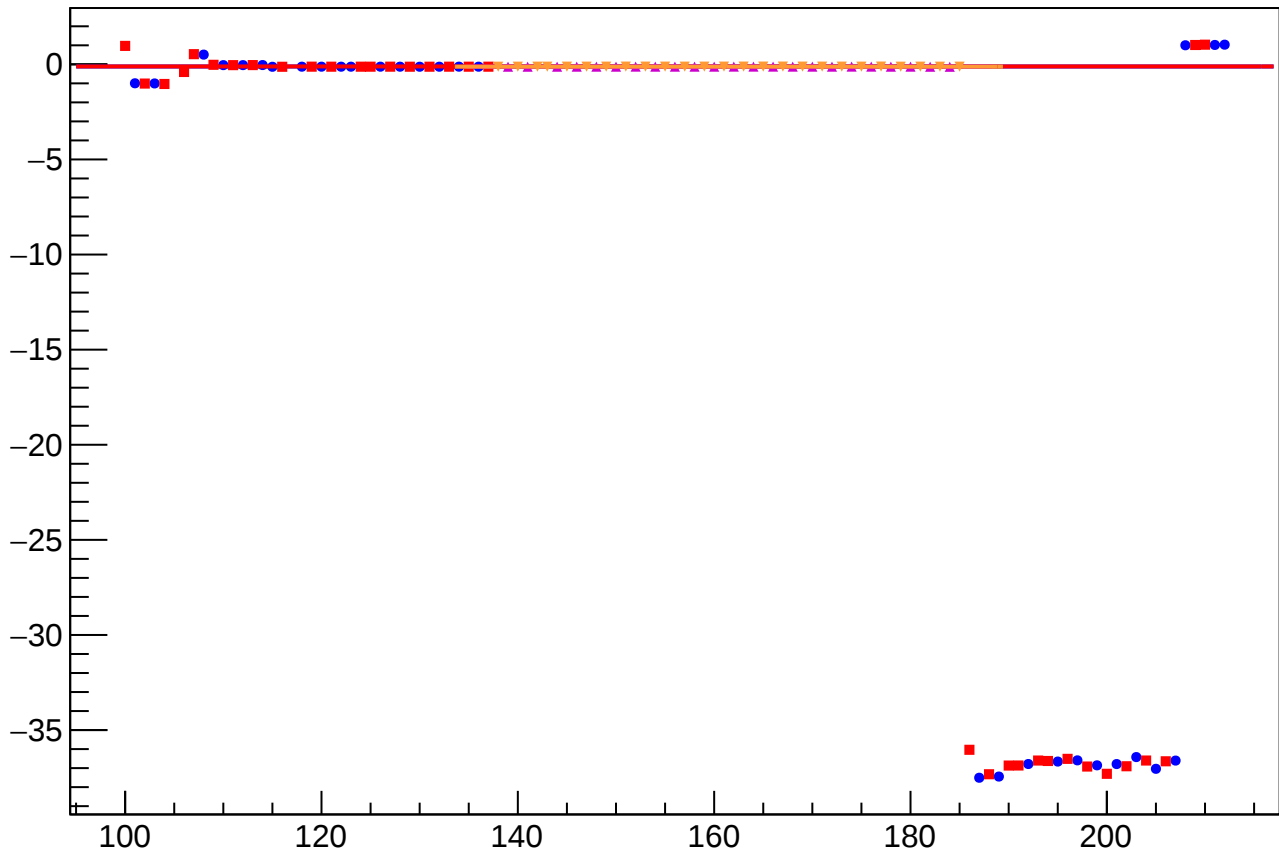
Right: 0.002+/-0.000 χ^2/NDF : 41127530.9/62

In: 0.002+/-0.000 χ^2/NDF : 20532586.3/52

Out: 0.002+/-0.000 χ^2/NDF : 21944183.9/57

All: 0.002+/-0.000 χ^2/NDF : 42477688.8/110

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.113+/-0.000 χ^2/NDF : 82600291239.0/29

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.110+/-0.000 χ^2/NDF : 81528666918.4/32

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

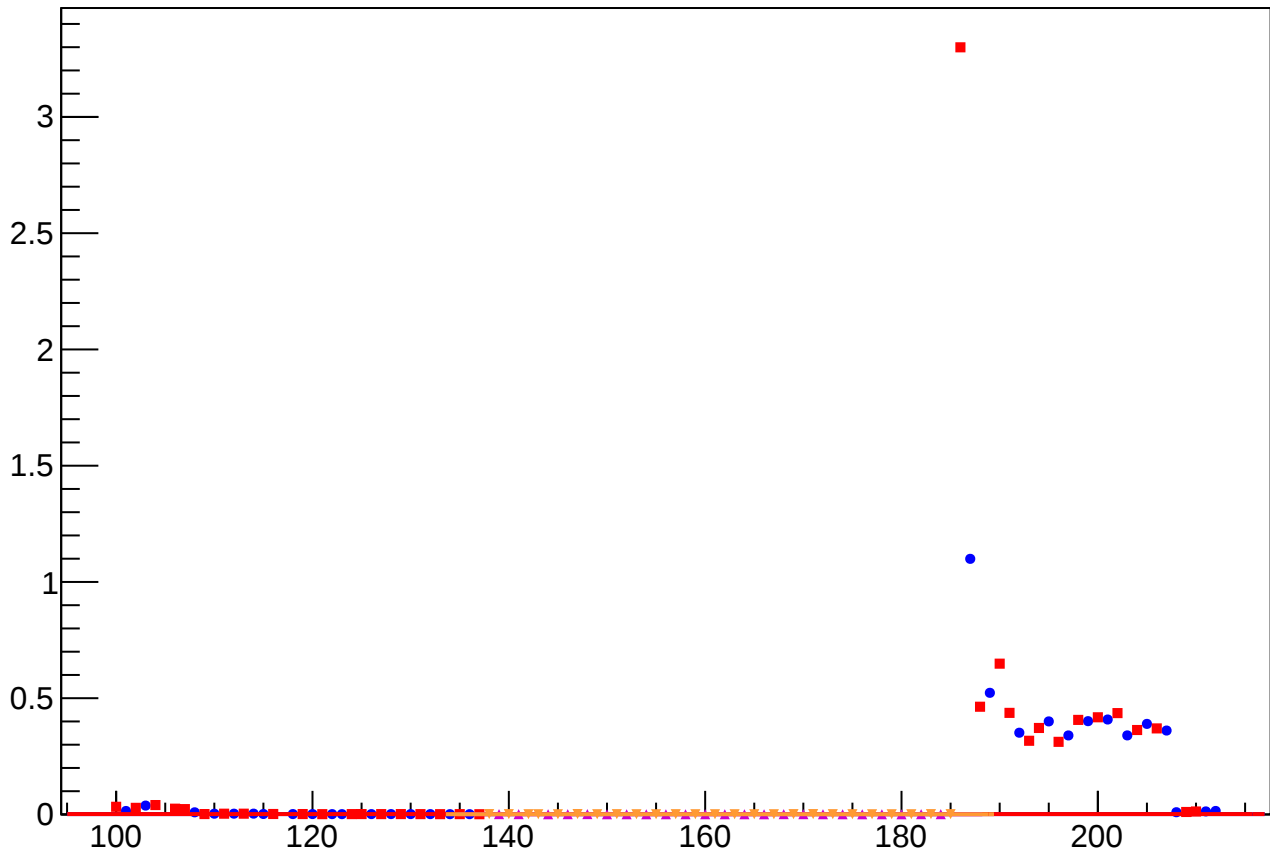
Right: -0.112+/-0.000 χ^2/NDF : 164137801314.8/62

In: -0.120+/-0.000 χ^2/NDF : 82751051370.4/52

Out: -0.120+/-0.000 χ^2/NDF : 81787526098.8/57

All: -0.120+/-0.000 χ^2/NDF : 164538654459.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19168096.2/29

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 20525142.0/32

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

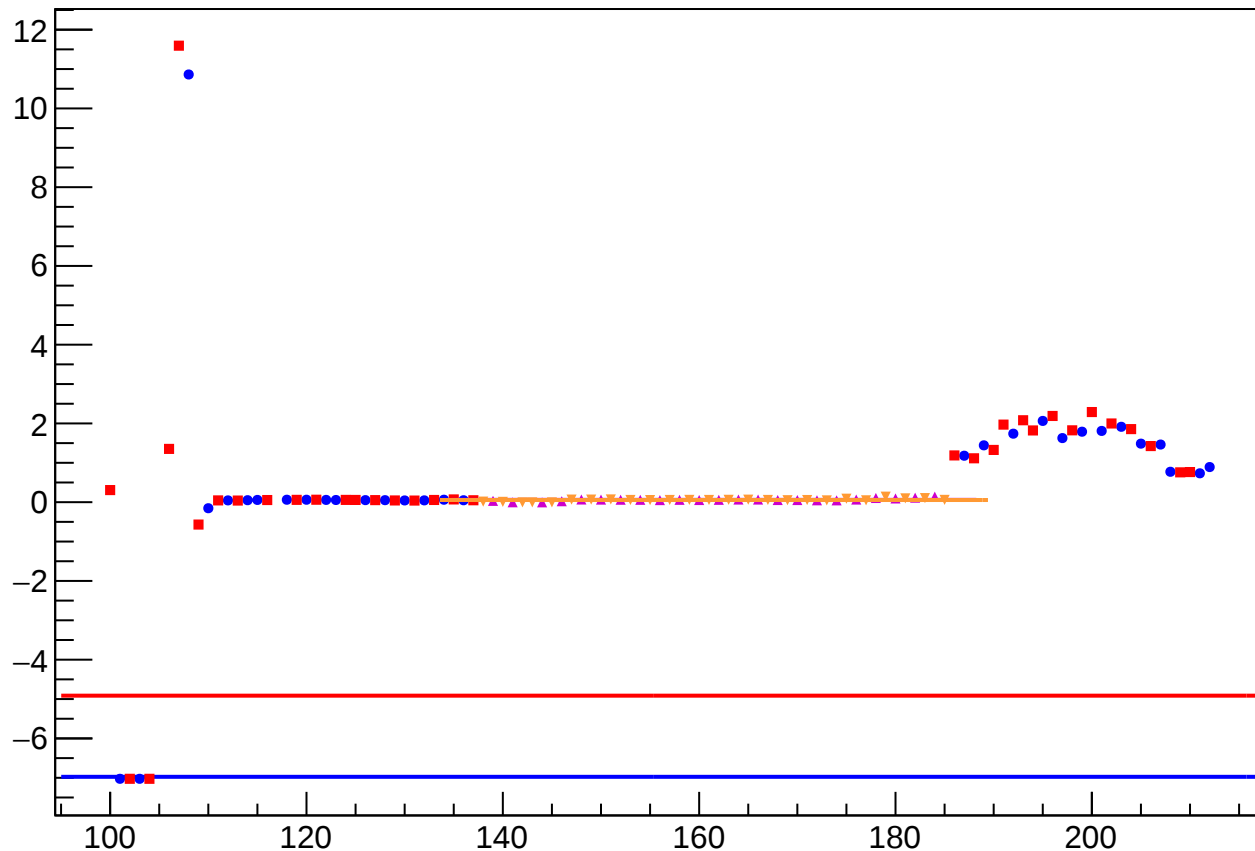
Right: 0.002+/-0.000 χ^2/NDF : 39694656.5/62

In: 0.001+/-0.000 χ^2/NDF :21632071.8/52

Out: 0.001+/-0.000 χ^2/NDF :23300128.5/57

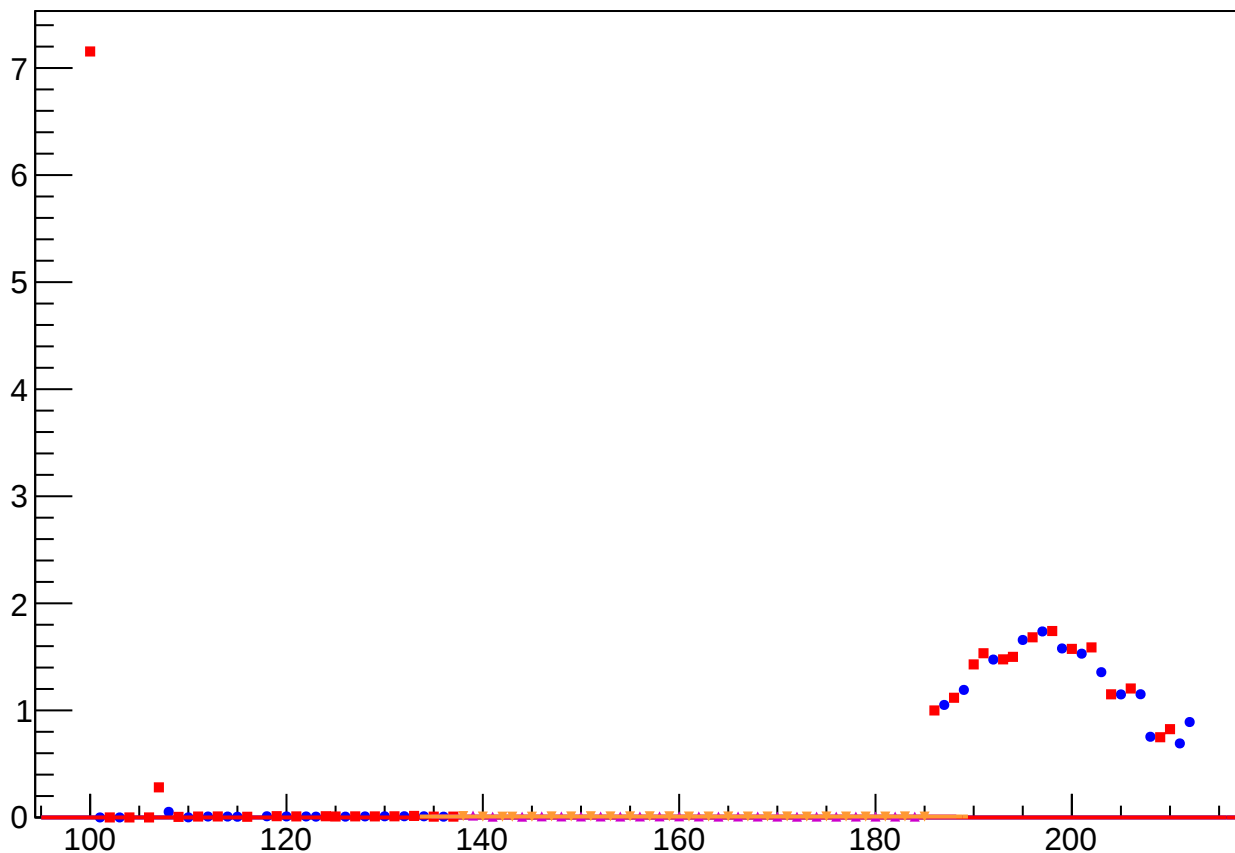
All: 0.001+/-0.000 χ^2/NDF : 44935962.1/110

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797838148190.4/29$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352909771694.1/32$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333968215678.4$
 In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553352890310.2/52$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165471719052.3$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435292545798$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26308492.1/29

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27051825.1/32

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

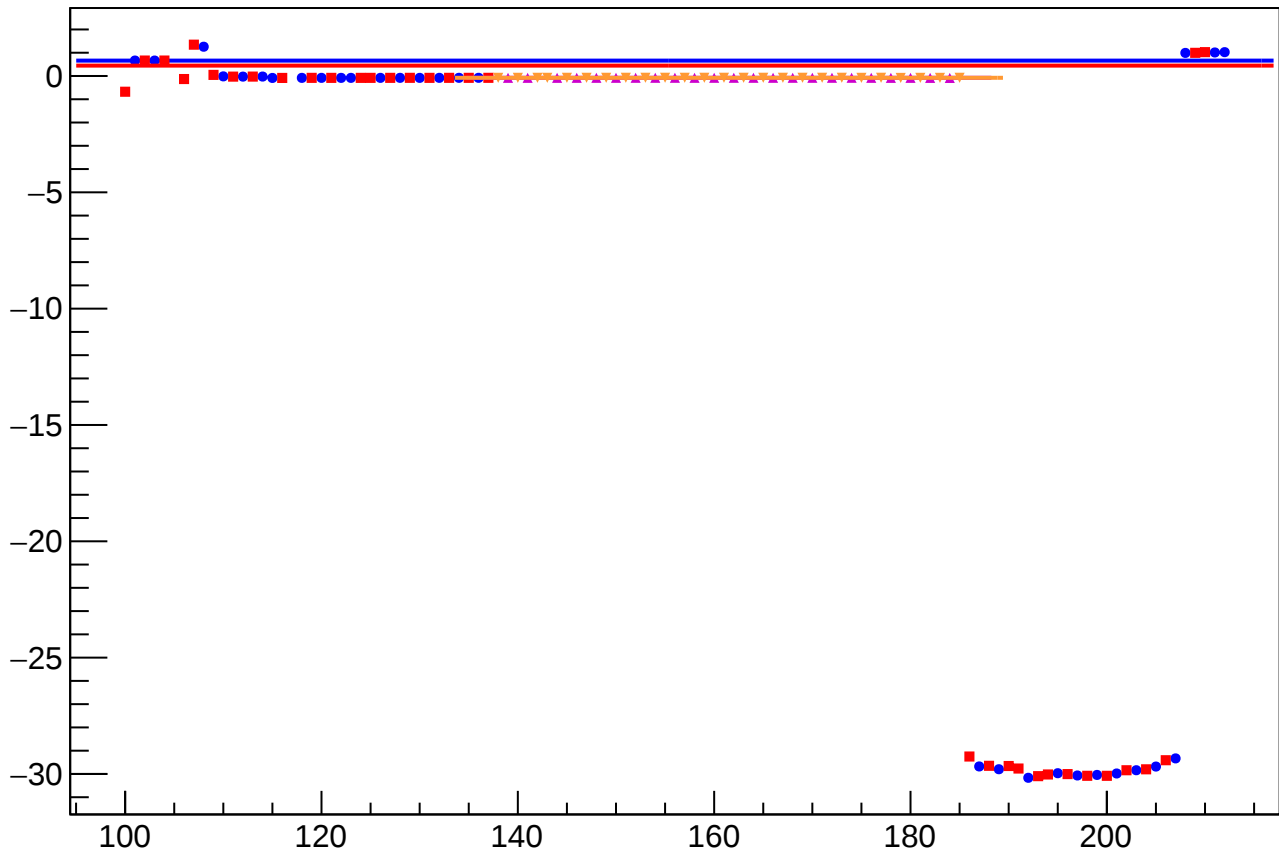
Right: 0.000+/-0.000 χ^2/NDF : 53360674.8/62

In: 0.000+/-0.000 χ^2/NDF : 53725619.8/52

Out: 0.000+/-0.000 χ^2/NDF : 55995360.0/57

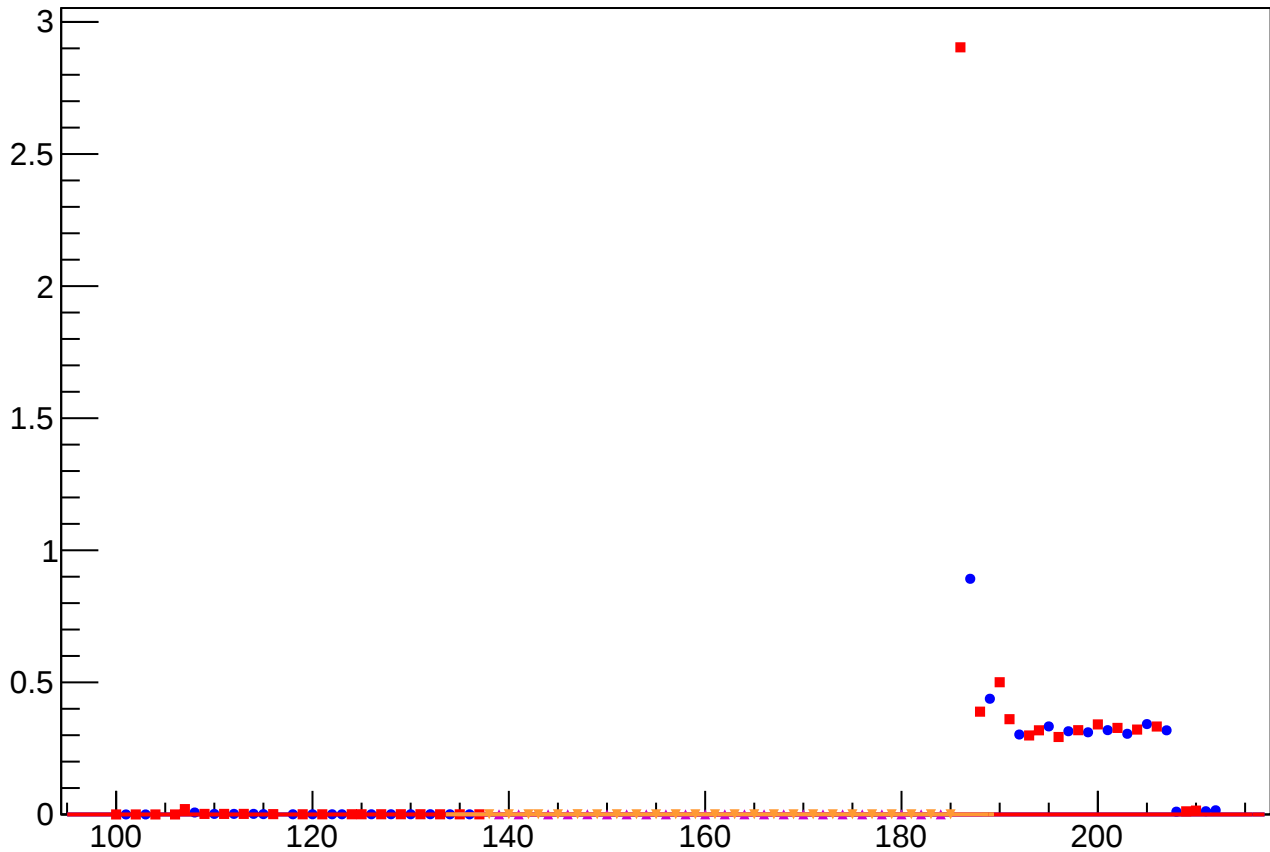
All: 0.000+/-0.000 χ^2/NDF : 109721455.6/110

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5720741655909.1/29	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 : 474127349860238.4
Right Out: 0.446+/-0.000	χ^2/NDF : 405493037676963.9/32	In: 0.647+/-0.000	χ^2/NDF : 33761550271498.4/52
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420654207848853.9/5
		All: 0.537+/-0.000	χ^2/NDF : 51597197054111

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27692873.7/29

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27597171.8/32

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

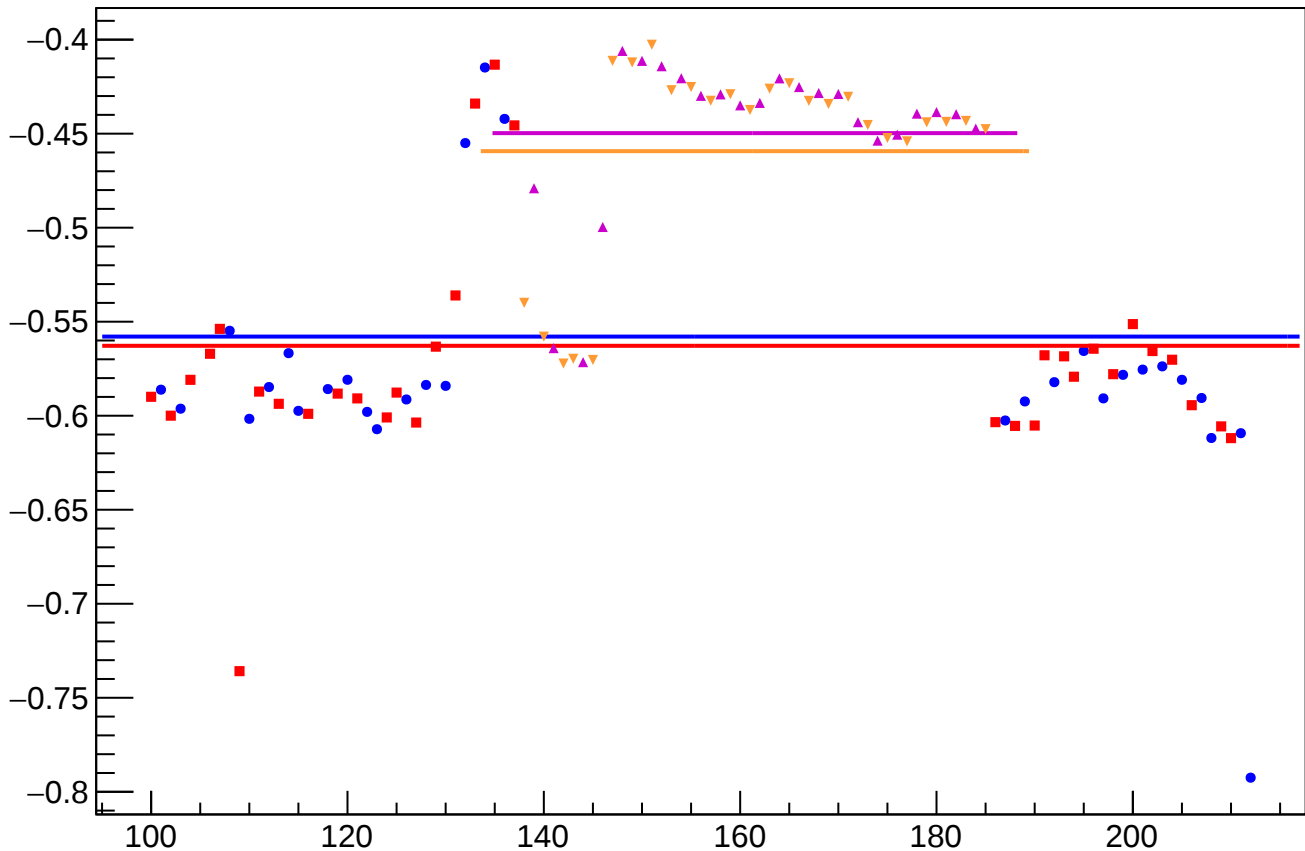
Right: 0.000+/-0.000 χ^2/NDF : 55290072.8/62

In: 0.000+/-0.000 χ^2/NDF : 58418356.8/52

Out: 0.000+/-0.000 χ^2/NDF : 60213921.8/57

All: 0.000+/-0.000 χ^2/NDF : 118632661.7/110

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.558+/-0.000 χ^2/NDF : 63411410.4/29

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.563+/-0.000 χ^2/NDF : 67198799.4/32

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

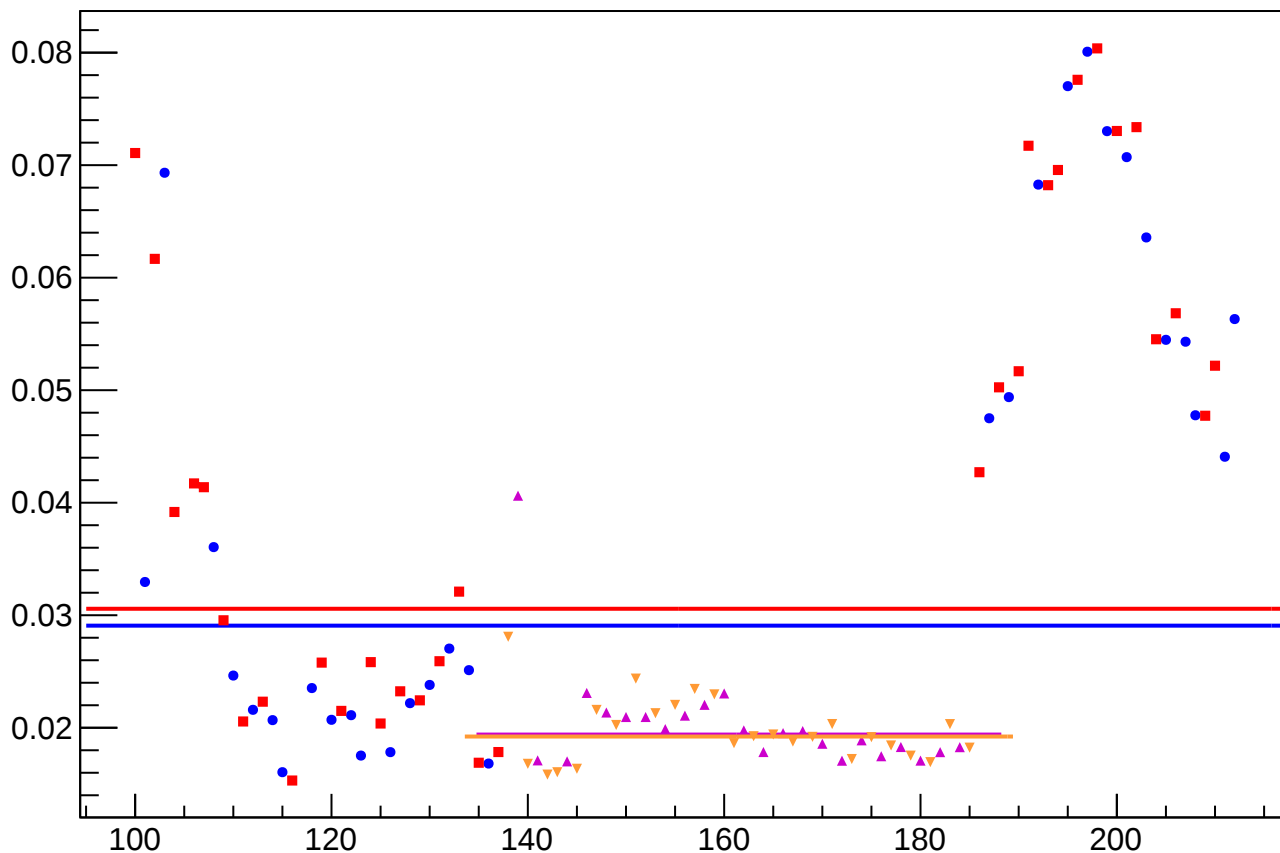
Right: -0.560+/-0.000 χ^2/NDF : 130763200.0/62

In: -0.478+/-0.000 χ^2/NDF : 252929404.9/52

Out: -0.484+/-0.000 χ^2/NDF : 282329970.2/57

All: -0.481+/-0.000 χ^2/NDF : 536109222.1/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2/NDF : 6955478.1/29

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 501711.6/24

Right Out: 0.031 $\pm$ 0.000 χ^2/NDF : 6872431.6/32

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

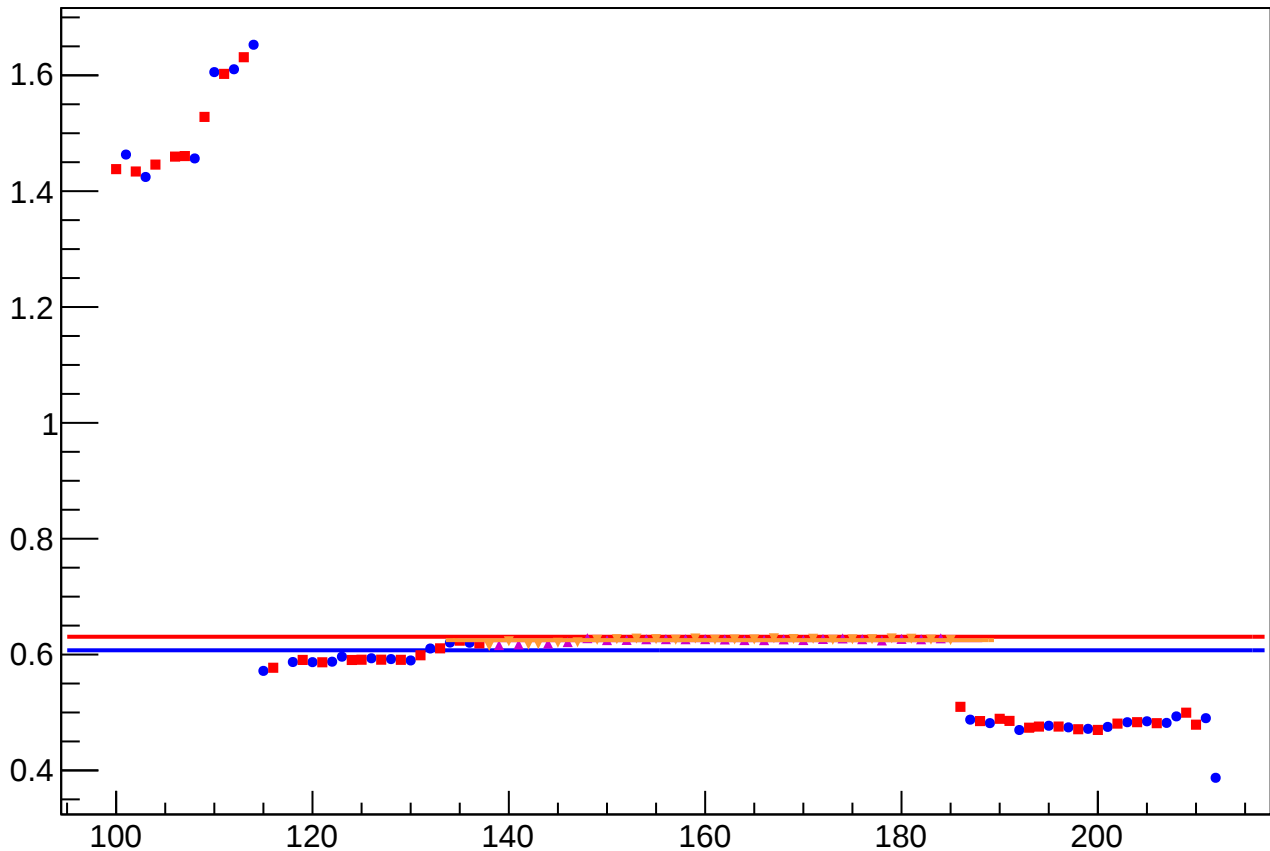
Right: 0.030 $\pm$ 0.000 χ^2/NDF : 13856618.0/62

In: 0.022 $\pm$ 0.000 χ^2/NDF : 9397290.8/52

Out: 0.022 $\pm$ 0.000 χ^2/NDF : 9818065.4/57

All: 0.022 $\pm$ 0.000 χ^2/NDF : 19215384.5/110

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.000 χ^2/NDF : 5214636269.0/29

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF : 1445169.1/24

Right Out: 0.631 $\pm$ 0.000 χ^2/NDF : 6163822830.0/32

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

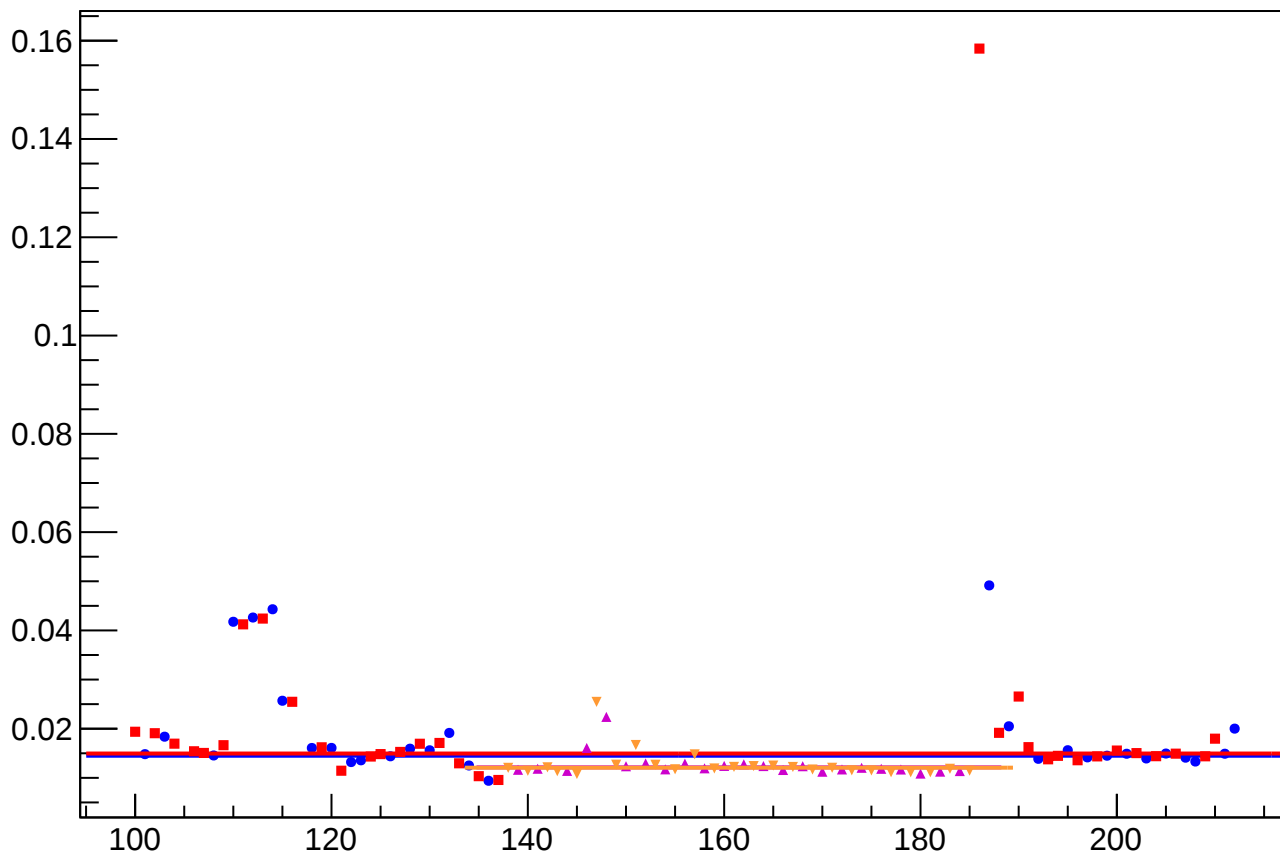
Right: 0.619 $\pm$ 0.000 χ^2/NDF : 11396697493.0/62

In: 0.618 $\pm$ 0.000 χ^2/NDF : 5228738132.5/52

Out: 0.627 $\pm$ 0.000 χ^2/NDF : 6166717651.6/57

All: 0.623 $\pm$ 0.000 χ^2/NDF : 11402395543.7/13

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1762189.8/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2119304.3/32

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

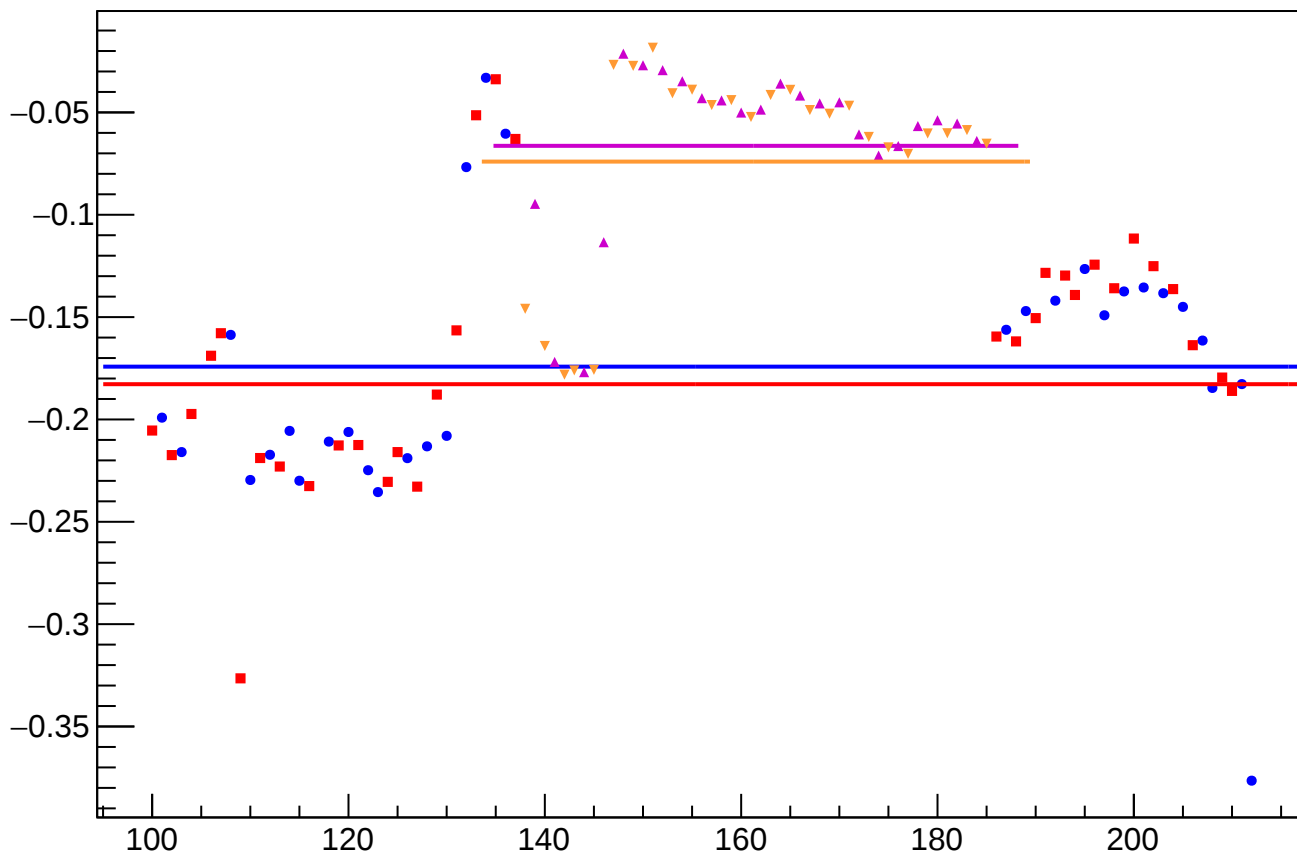
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3894677.5/62

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2728057.5/52

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3480030.4/57

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6208643.5/110

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174 $\pm$ 0.000 χ^2 /NDF: 79267940.9/29

Left Out: -0.074 $\pm$ 0.000 χ^2 /NDF:107676601.9/24

Right Out: -0.183 $\pm$ 0.000 χ^2 /NDF: 86389704.0/32

Left In: -0.066 $\pm$ 0.000 χ^2 /NDF:76243051.8/22

Left: -0.070 $\pm$ 0.000 χ^2 /NDF: 185076997.5/47

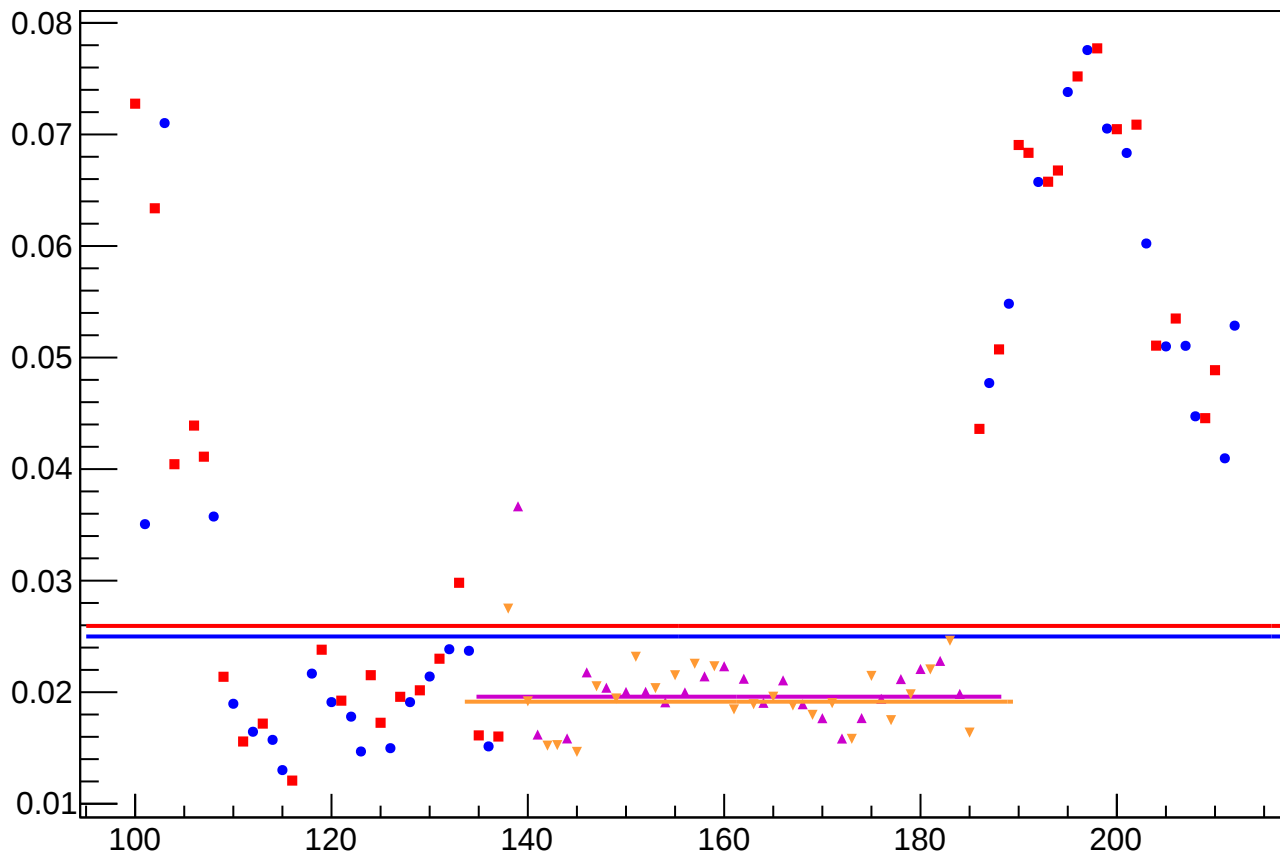
Right: -0.178 $\pm$ 0.000 χ^2 /NDF: 166262931.5/62

In: -0.100 $\pm$ 0.000 χ^2 /NDF:290259786.1/52

Out: -0.105 $\pm$ 0.000 χ^2 /NDF:331031567.9/57

All: -0.102 $\pm$ 0.000 χ^2 /NDF: 621900867.3/111

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 8138006.1/29

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8392013.6/32

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

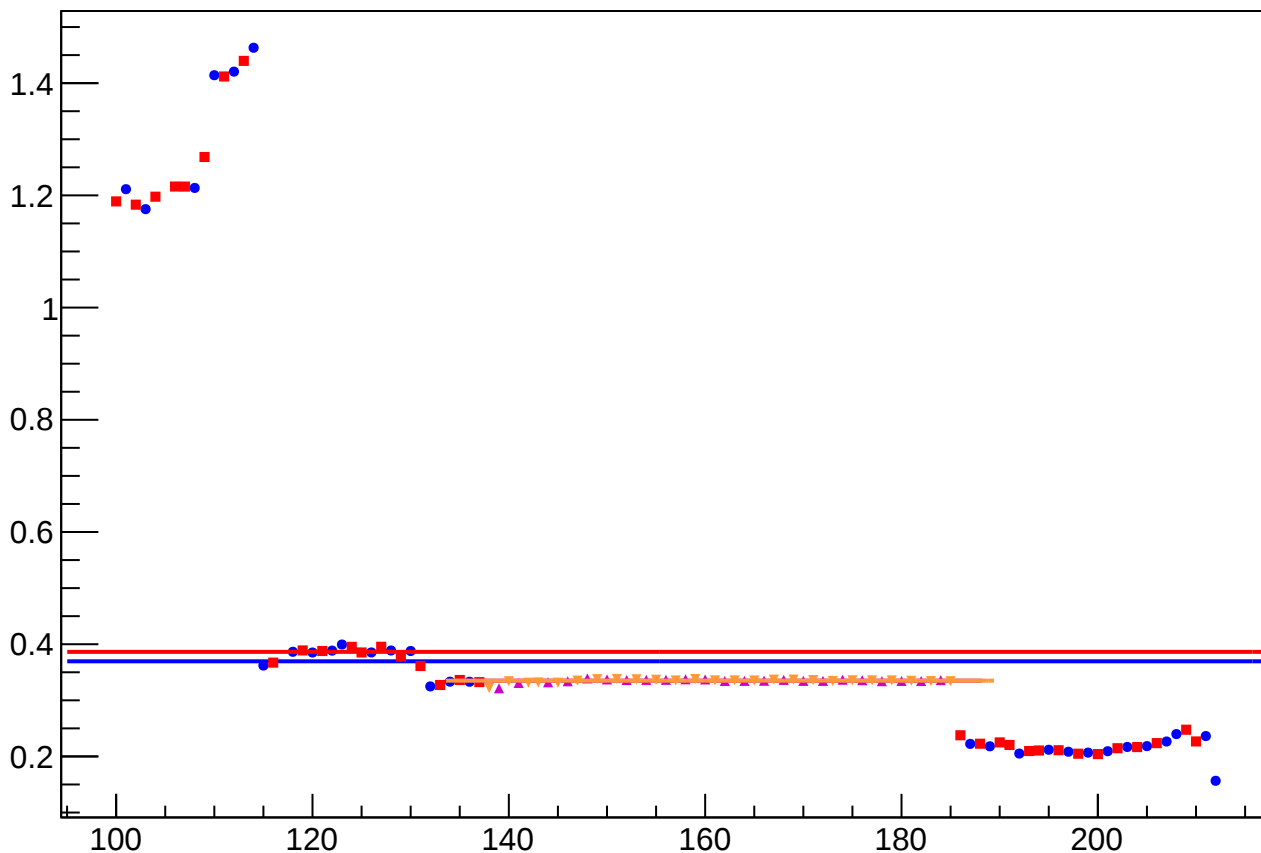
Right: 0.025+/-0.000 χ^2/NDF : 16544753.8/62

In: 0.021+/-0.000 χ^2/NDF : 9436124.0/52

Out: 0.021+/-0.000 χ^2/NDF : 10101891.1/57

All: 0.021+/-0.000 χ^2/NDF : 19540663.9/110

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.370+/-0.000 χ^2/NDF : 7658862500.1/29

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.386+/-0.000 χ^2/NDF : 8670974655.4/32

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

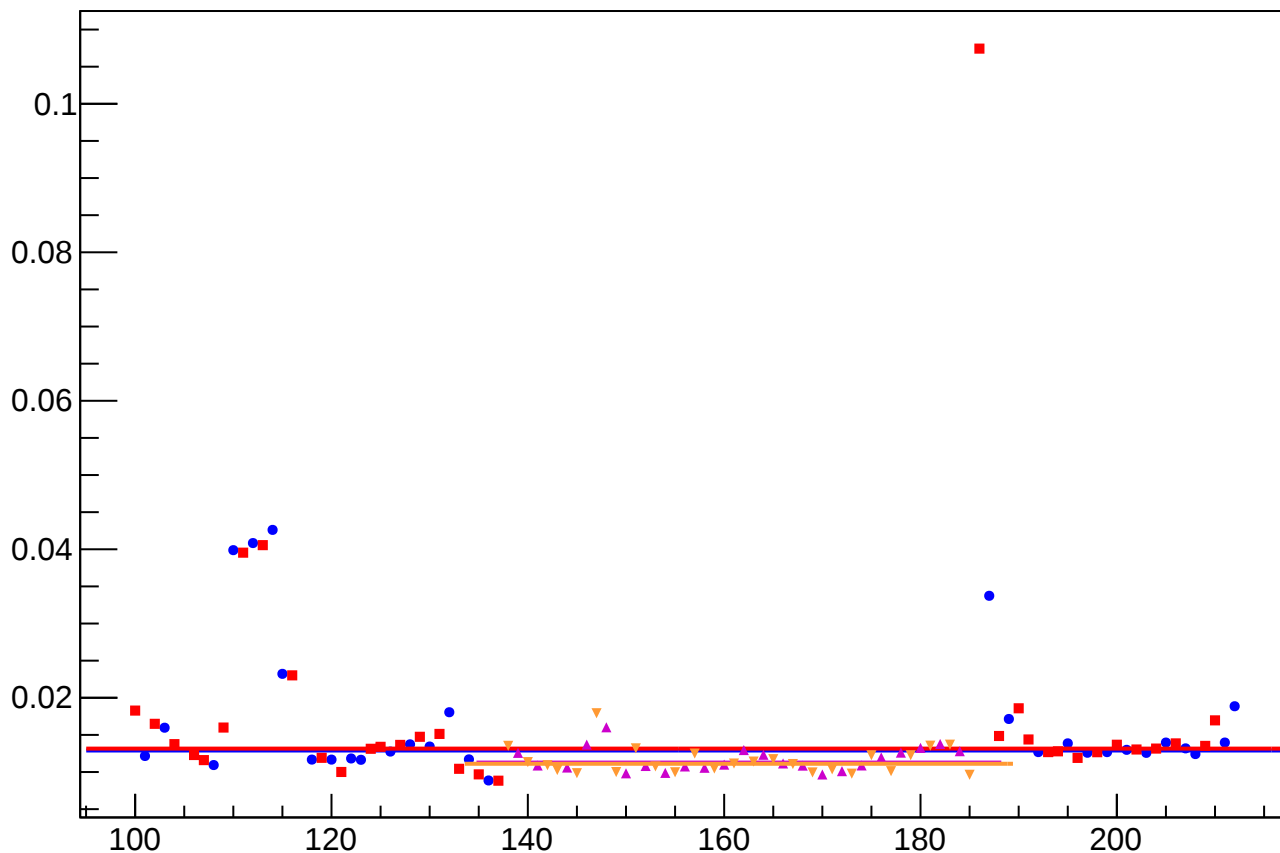
Right: 0.378+/-0.000 χ^2/NDF : 16341943160.6/62

In: 0.349+/-0.000 χ^2/NDF : 7721831832.6/52

Out: 0.354+/-0.000 χ^2/NDF : 8811072331.8/57

All: 0.352+/-0.000 χ^2/NDF : 16536176009.0/111

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1683088.1/29

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2014187.4/32

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

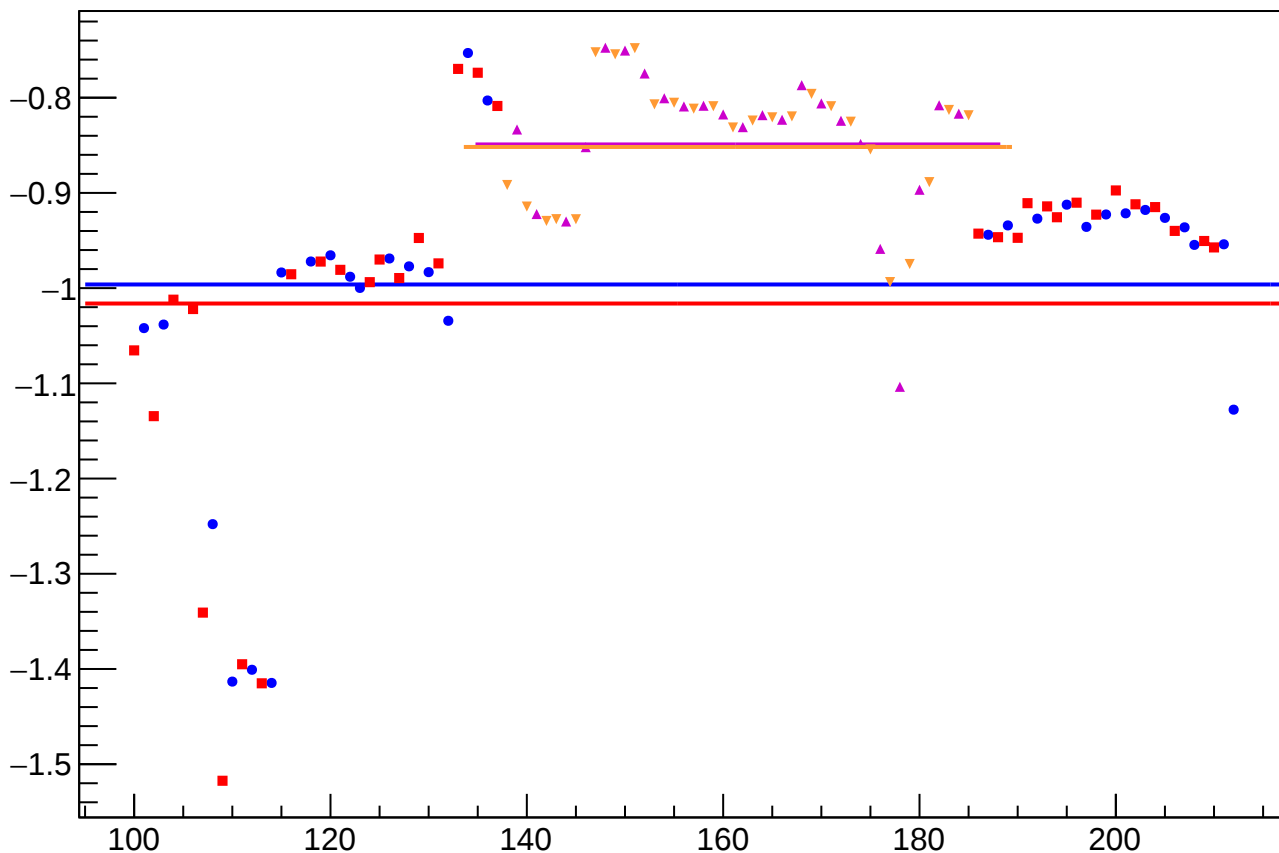
Right: 0.013+/-0.000 χ^2/NDF : 3702793.5/62

In: 0.012+/-0.000 χ^2/NDF : 2459706.1/52

Out: 0.012+/-0.000 χ^2/NDF : 3061652.5/57

All: 0.012+/-0.000 χ^2/NDF : 5521860.9/110

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.996+/-0.000 χ^2/NDF : 409009865.4/29

Left Out: -0.852+/-0.000 χ^2/NDF :189103962.4/24

Right Out: -1.016+/-0.000 χ^2/NDF : 560194449.8/32

Left In: -0.849+/-0.000 χ^2/NDF :256391274.4/22

Left: -0.850+/-0.000 χ^2/NDF : 445636655.2/47

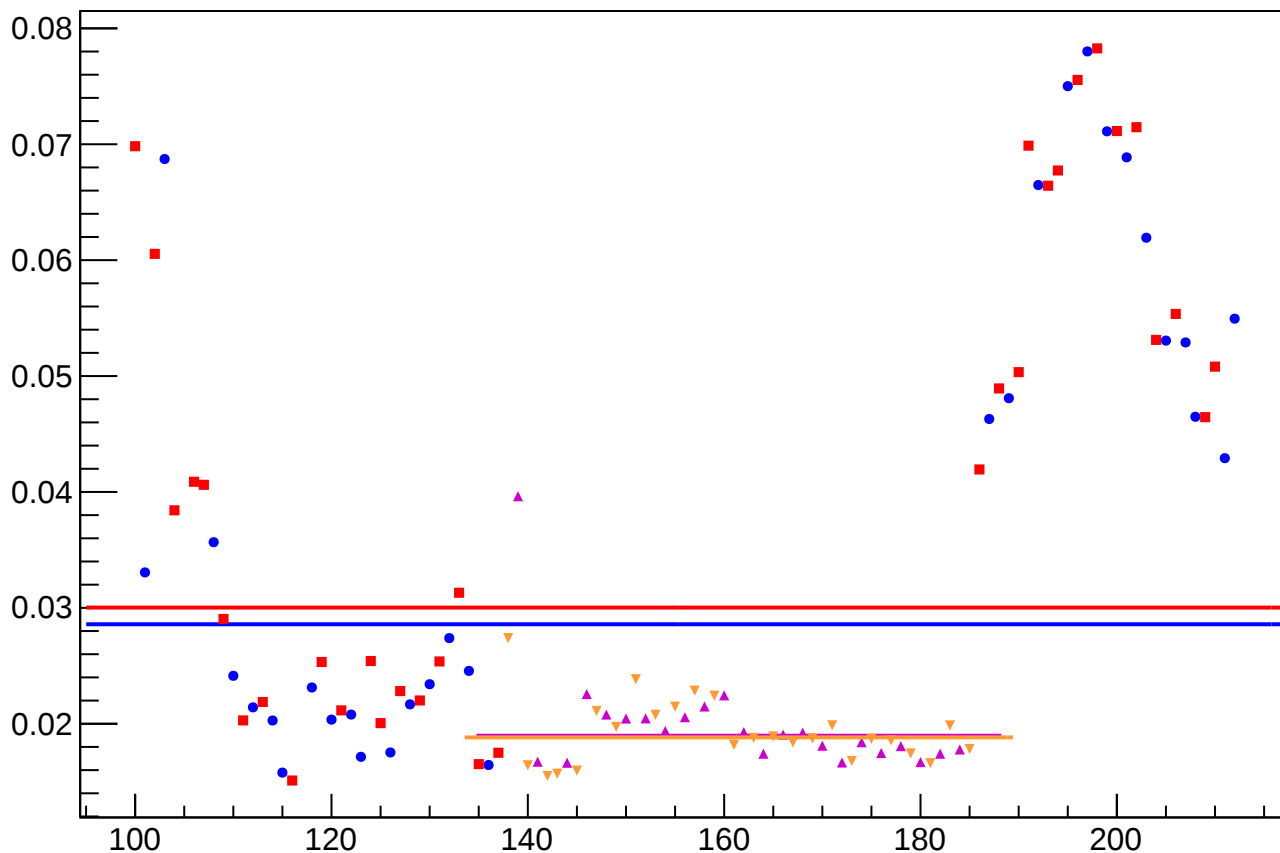
Right: -1.006+/-0.000 χ^2/NDF : 971853814.3/62

In: -0.887+/-0.000 χ^2/NDF :883246288.6/52

Out: -0.890+/-0.000 χ^2/NDF :1015696290.2/57

All: -0.889+/-0.000 χ^2/NDF : 1899216115.4/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 6900397.5/29

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6797834.3/32

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

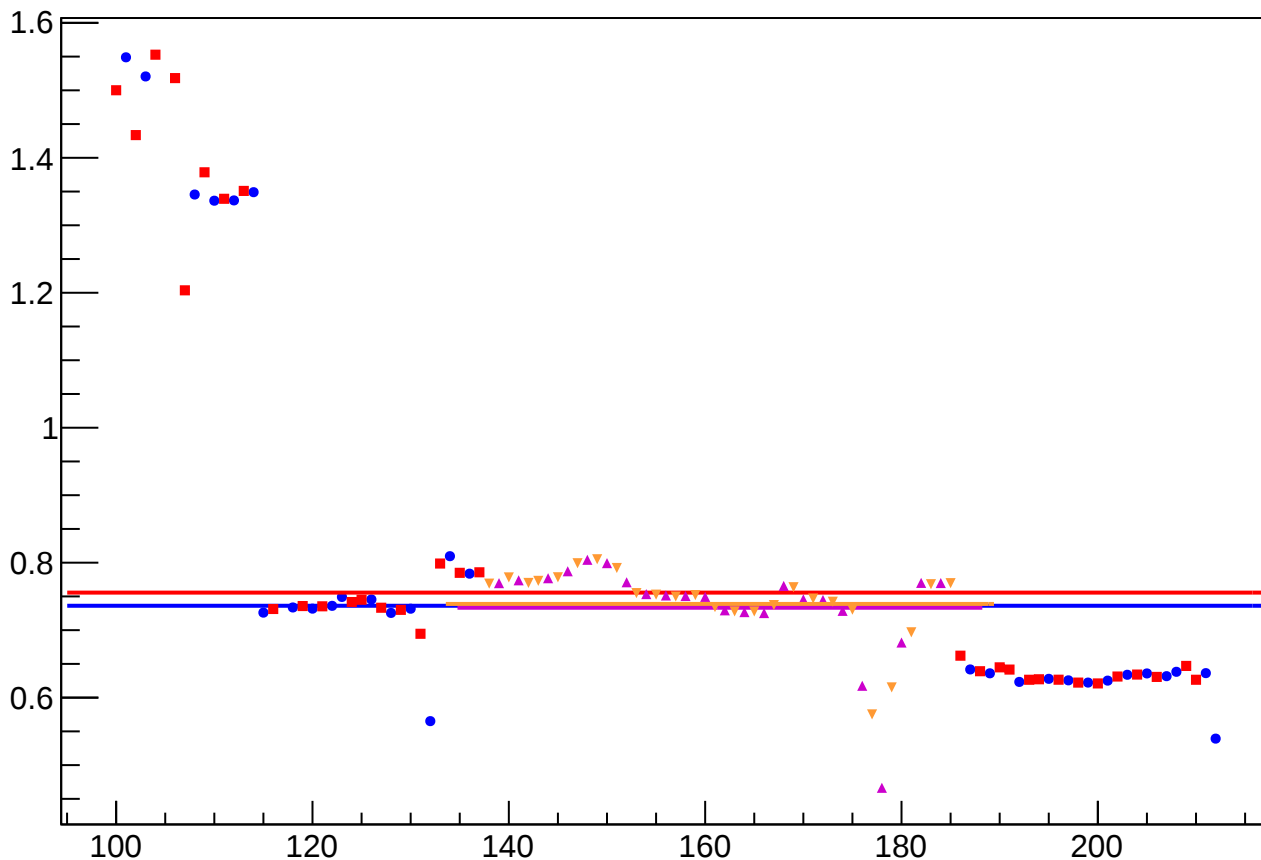
Right: 0.029+/-0.000 χ^2/NDF : 13725723.9/62

In: 0.021+/-0.000 χ^2/NDF : 9378504.9/52

Out: 0.021+/-0.000 χ^2/NDF : 9761350.7/57

All: 0.021+/-0.000 χ^2/NDF : 19139855.9/110

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.736+/-0.000 χ^2/NDF : 3589451260.2/29

Left Out: 0.739+/-0.000 χ^2/NDF : 333013236.5/24

Right Out: 0.756+/-0.000 χ^2/NDF : 3842208292.3/32

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 904456968.5/47

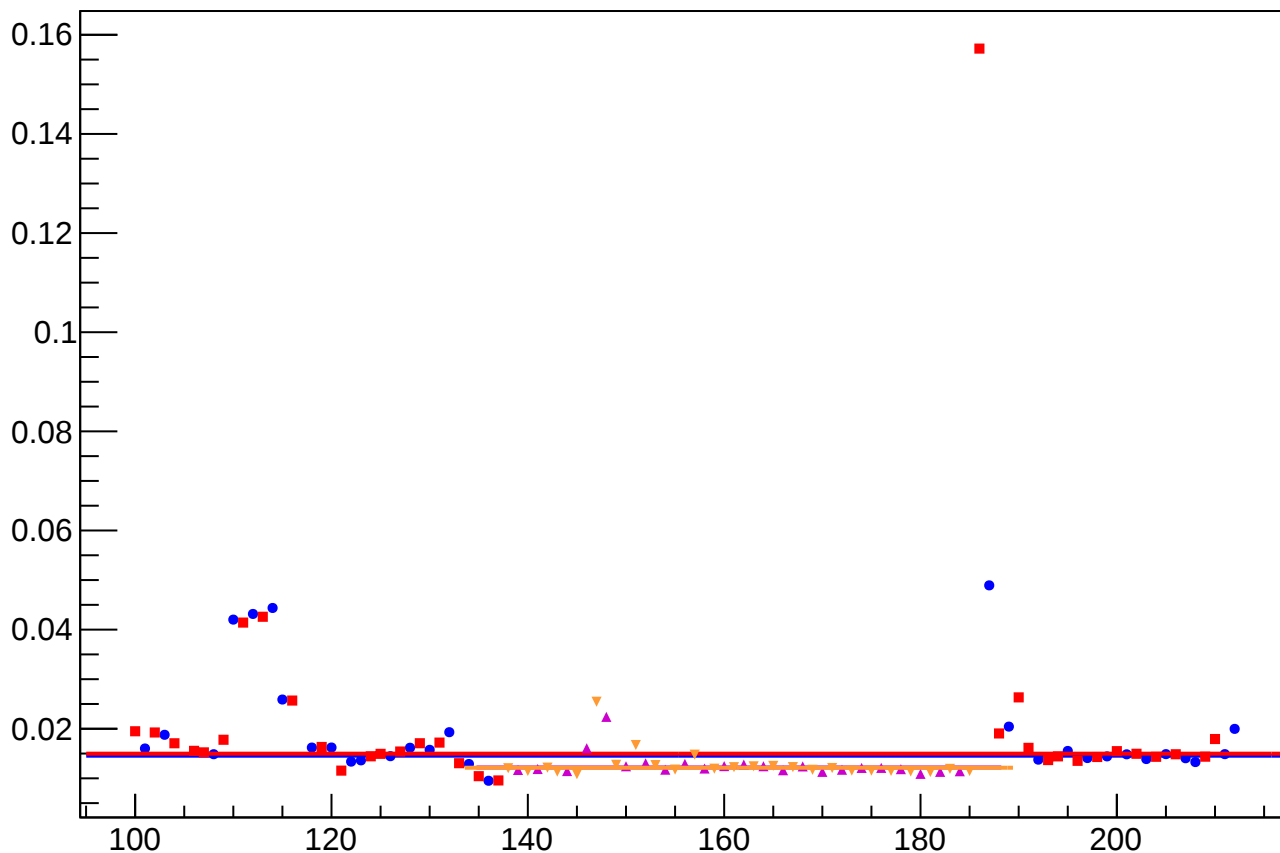
Right: 0.746+/-0.000 χ^2/NDF : 7444242601.3/62

In: 0.734+/-0.000 χ^2/NDF : 4159423108.4/52

Out: 0.745+/-0.000 χ^2/NDF : 4187100140.3/57

All: 0.740+/-0.000 χ^2/NDF : 8356468106.7/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1760348.7/29

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2121869.7/32

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

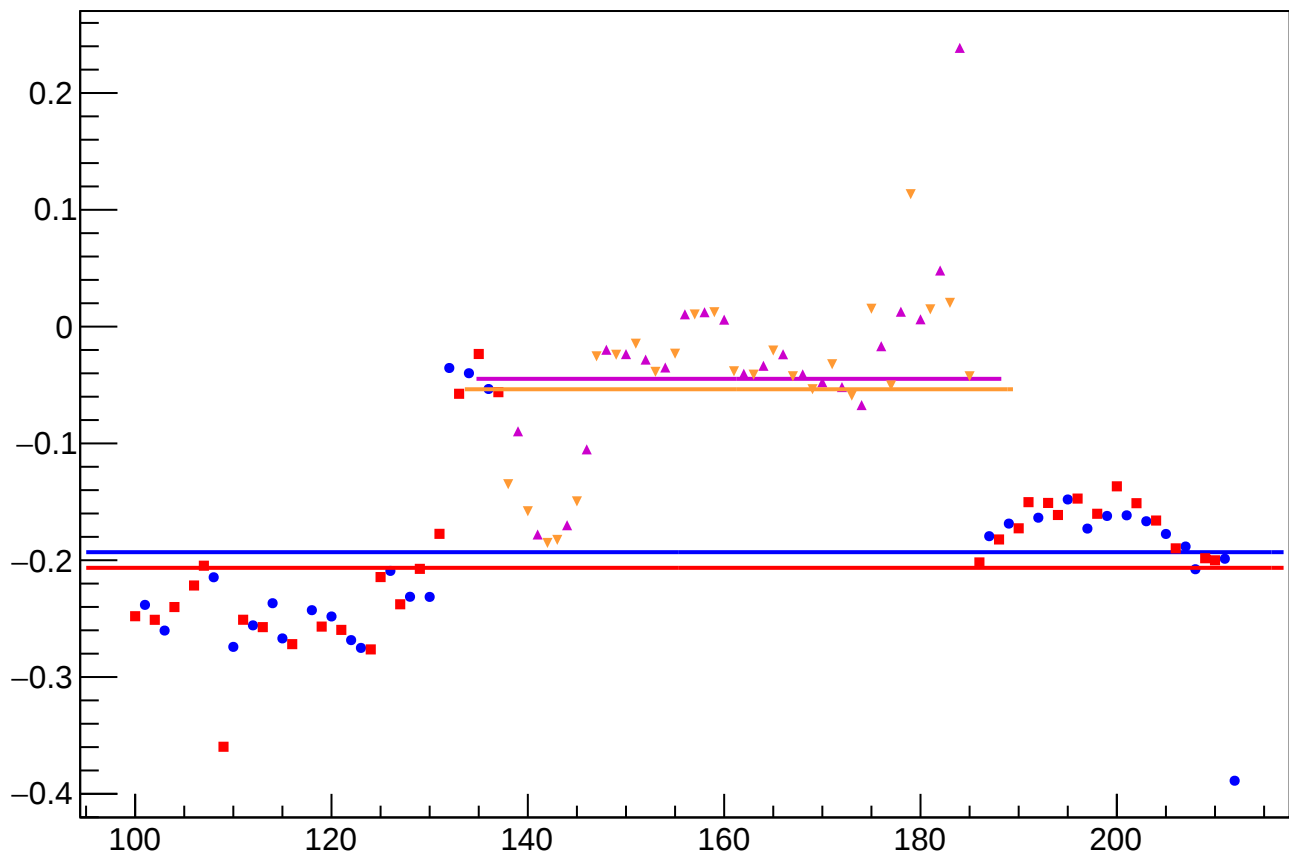
Right: 0.015+/-0.000 χ^2/NDF : 3893059.7/62

In: 0.013+/-0.000 χ^2/NDF : 2718551.0/52

Out: 0.013+/-0.000 χ^2/NDF : 3436813.9/57

All: 0.013+/-0.000 χ^2/NDF : 6155929.3/110

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.193 ± 0.000 $\chi^2/\text{NDF}: 117133598.6/29$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 114715424.8/32$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

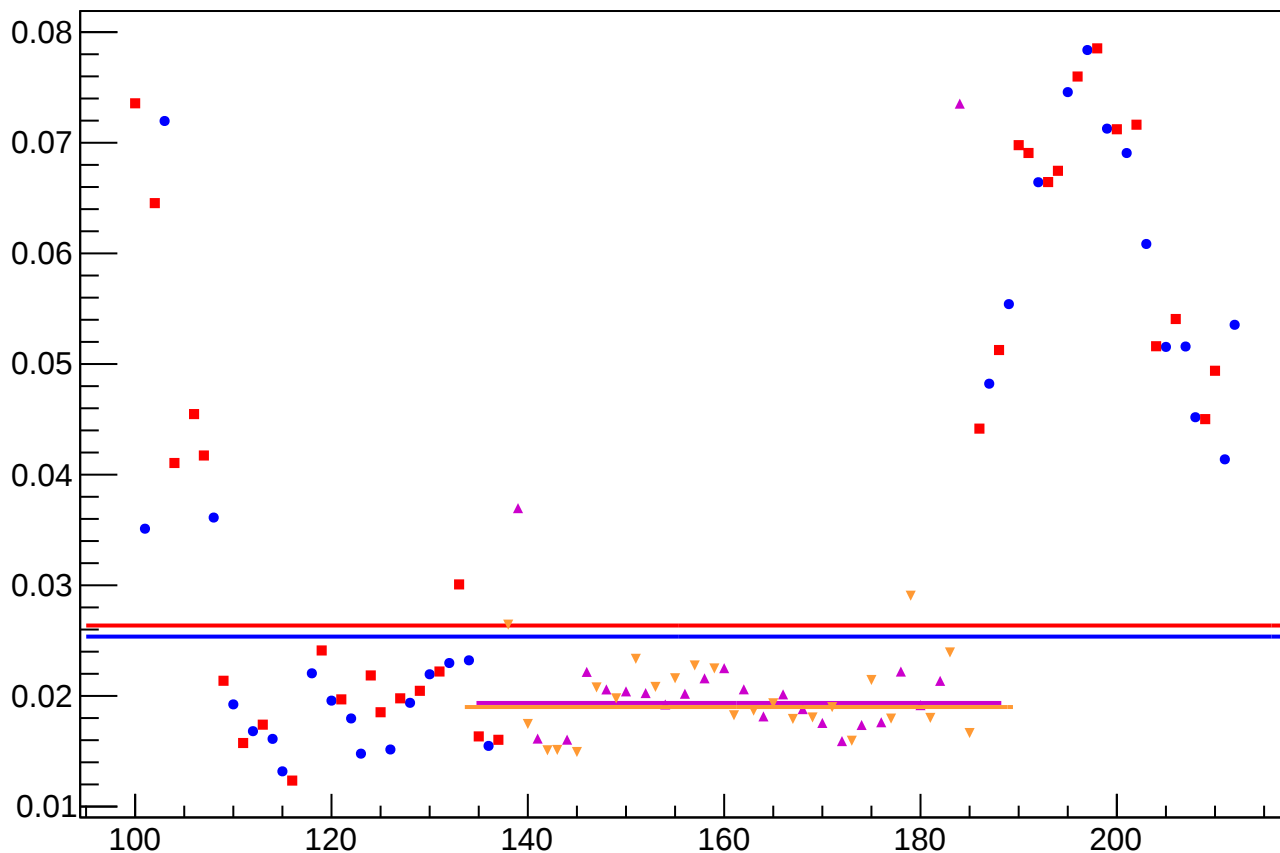
Right: -0.200 ± 0.000 $\chi^2/\text{NDF}: 233285665.5/62$

In: -0.090 ± 0.000 $\chi^2/\text{NDF}: 494256561.0/52$

Out: -0.096 ± 0.000 $\chi^2/\text{NDF}: 546085300.6/57$

All: -0.093 ± 0.000 $\chi^2/\text{NDF}: 1041301594.5/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 8075961.8/29

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8337149.0/32

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

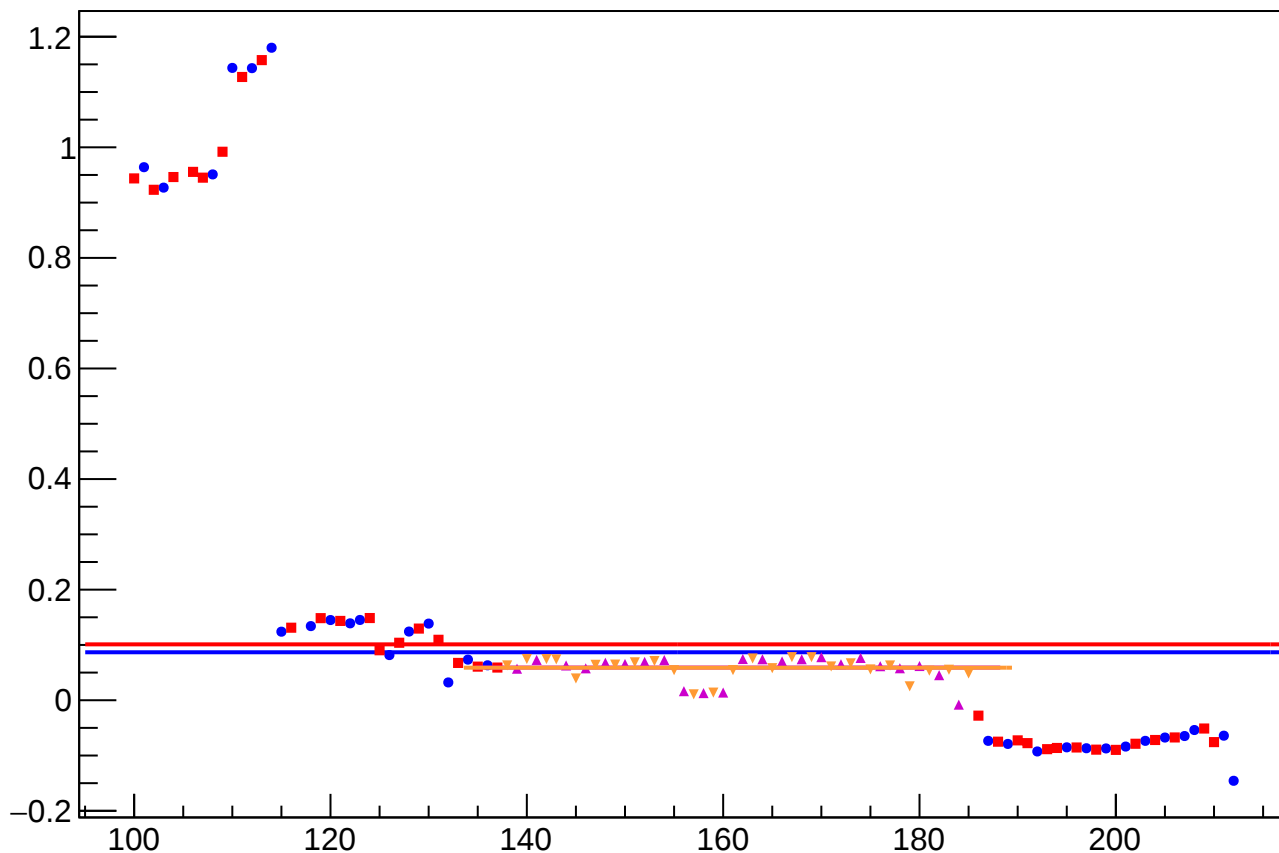
Right: 0.026+/-0.000 χ^2/NDF : 16429140.0/62

In: 0.021+/-0.000 χ^2/NDF : 9750825.8/52

Out: 0.021+/-0.000 χ^2/NDF : 10261772.3/57

All: 0.021+/-0.000 χ^2/NDF : 20013979.0/110

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.087+/-0.000

χ^2/NDF : 8309363790.2/29

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

Right: 0.094+/-0.000 χ^2/NDF : 17486229139.3/62

Left Out: 0.059+/-0.000

χ^2/NDF : 46821236.8/24

In: 0.070+/-0.000 χ^2/NDF : 8408783713.7/52

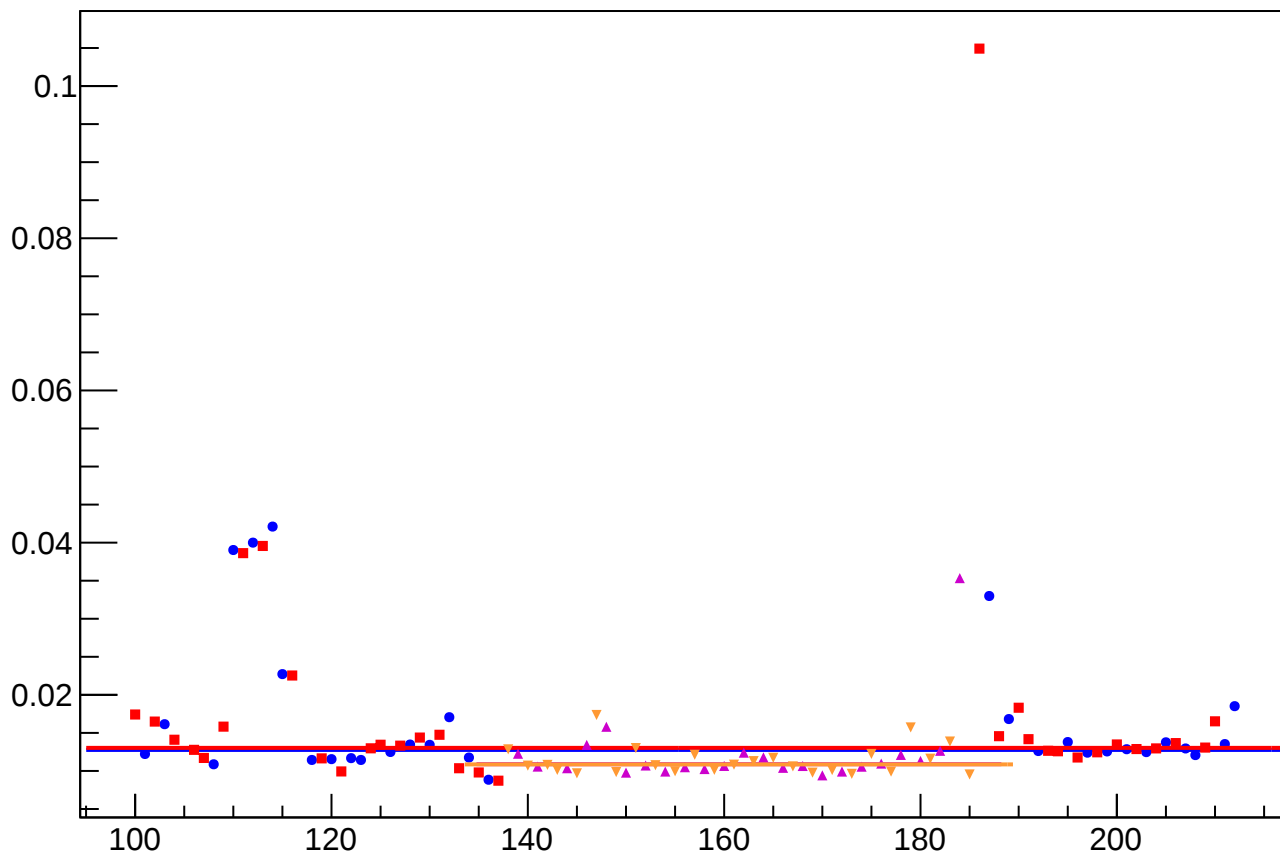
Right Out: 0.101+/-0.000 χ^2/NDF : 9167960990.6/32

Out: 0.075+/-0.000 χ^2/NDF : 9310555029.3/57

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

All: 0.072+/-0.000 χ^2/NDF : 17721787232.0/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1639137.5/29

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1958884.2/32

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

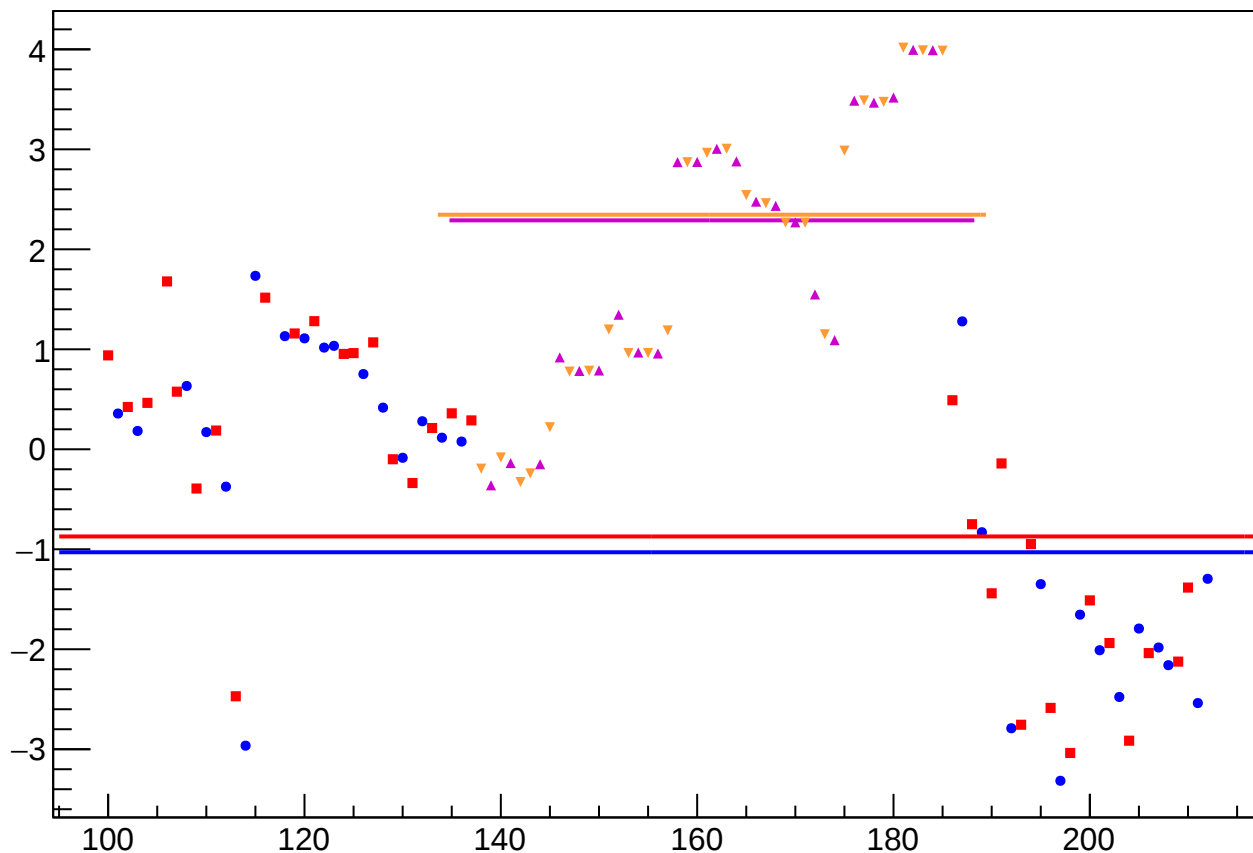
Right: 0.013+/-0.000 χ^2/NDF : 3604355.4/62

In: 0.012+/-0.000 χ^2/NDF : 2543603.4/52

Out: 0.012+/-0.000 χ^2/NDF : 3070752.6/57

All: 0.012+/-0.000 χ^2/NDF : 5614803.6/110

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000 χ^2/NDF : 7684082939.3/29

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.872+/-0.000 χ^2/NDF : 8167290467.7/32

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

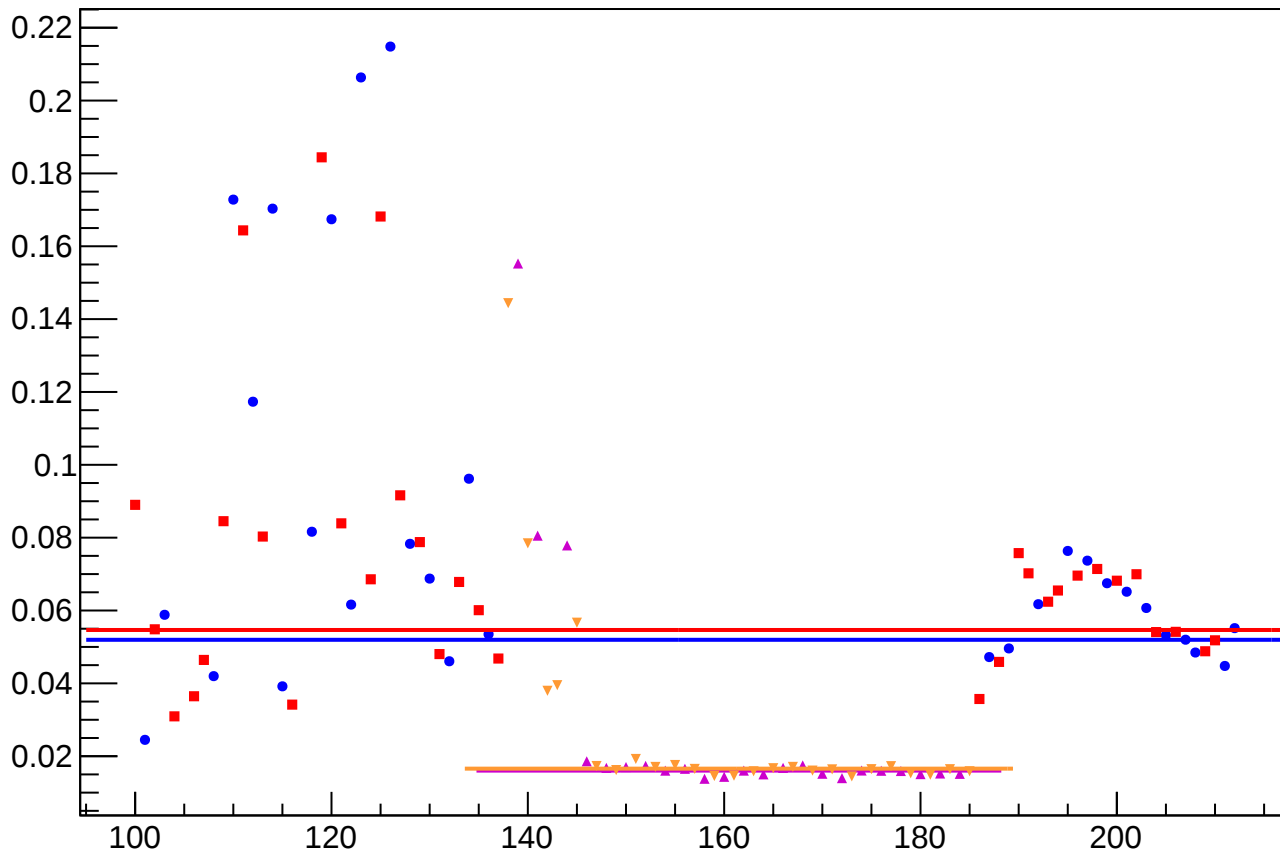
Right: -0.953+/-0.000 χ^2/NDF : 15905546907.8/62

In: 2.028+/-0.000 χ^2/NDF : 113500513300.2/52

Out: 2.098+/-0.000 χ^2/NDF : 112233657991.0/57

All: 2.063+/-0.000 χ^2/NDF : 225870765263.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3551554.2/29

Left Out: 0.017+/-0.000 χ^2/NDF :2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2863691.2/32

Left In: 0.016+/-0.000 χ^2/NDF :2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

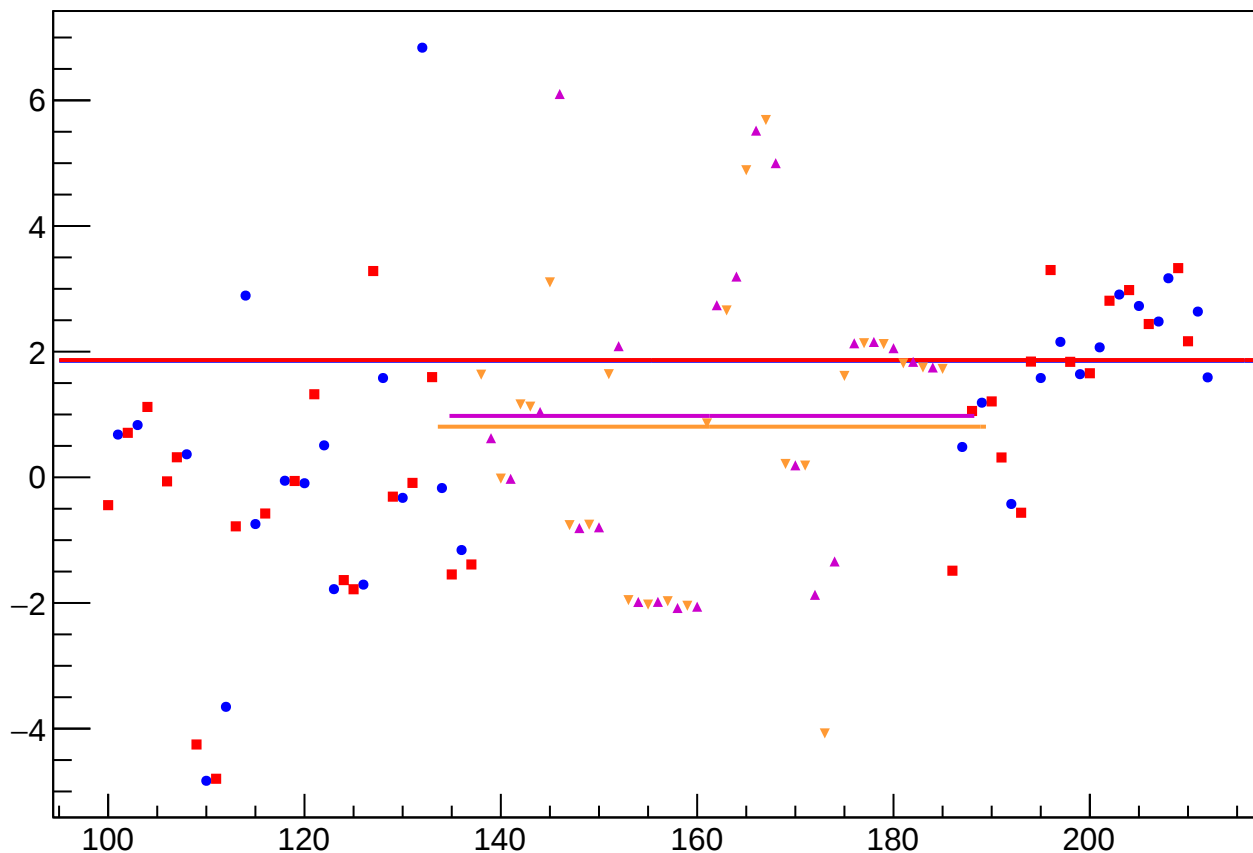
Right: 0.053+/-0.000 χ^2/NDF : 6446721.2/62

In: 0.019+/-0.000 χ^2/NDF :16465226.7/52

Out: 0.020+/-0.000 χ^2/NDF :16844617.1/57

All: 0.019+/-0.000 χ^2/NDF : 33332803.8/110

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.855+/-0.000

χ^2/NDF : 38560672256.9/29

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.860+/-0.000

χ^2/NDF : 78139686748.2/62

Right Out: 1.866+/-0.000

χ^2/NDF : 39577199129.8/32

In: 1.194+/-0.000

χ^2/NDF : 622917752159.7/52

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

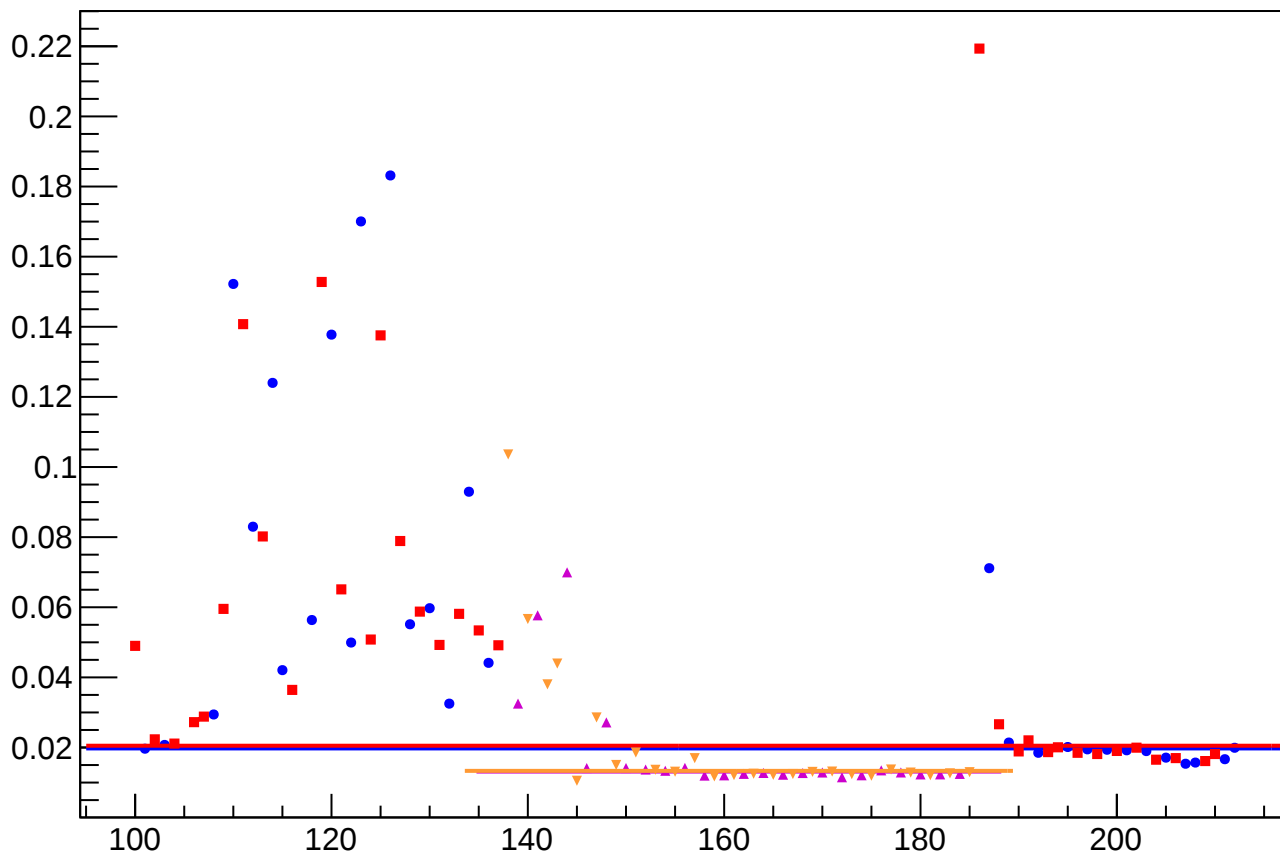
Out: 1.056+/-0.000

χ^2/NDF : 569658078265.3/57

All: 1.125+/-0.000

χ^2/NDF : 1193636427833.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4196224.7/29

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5166965.9/32

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

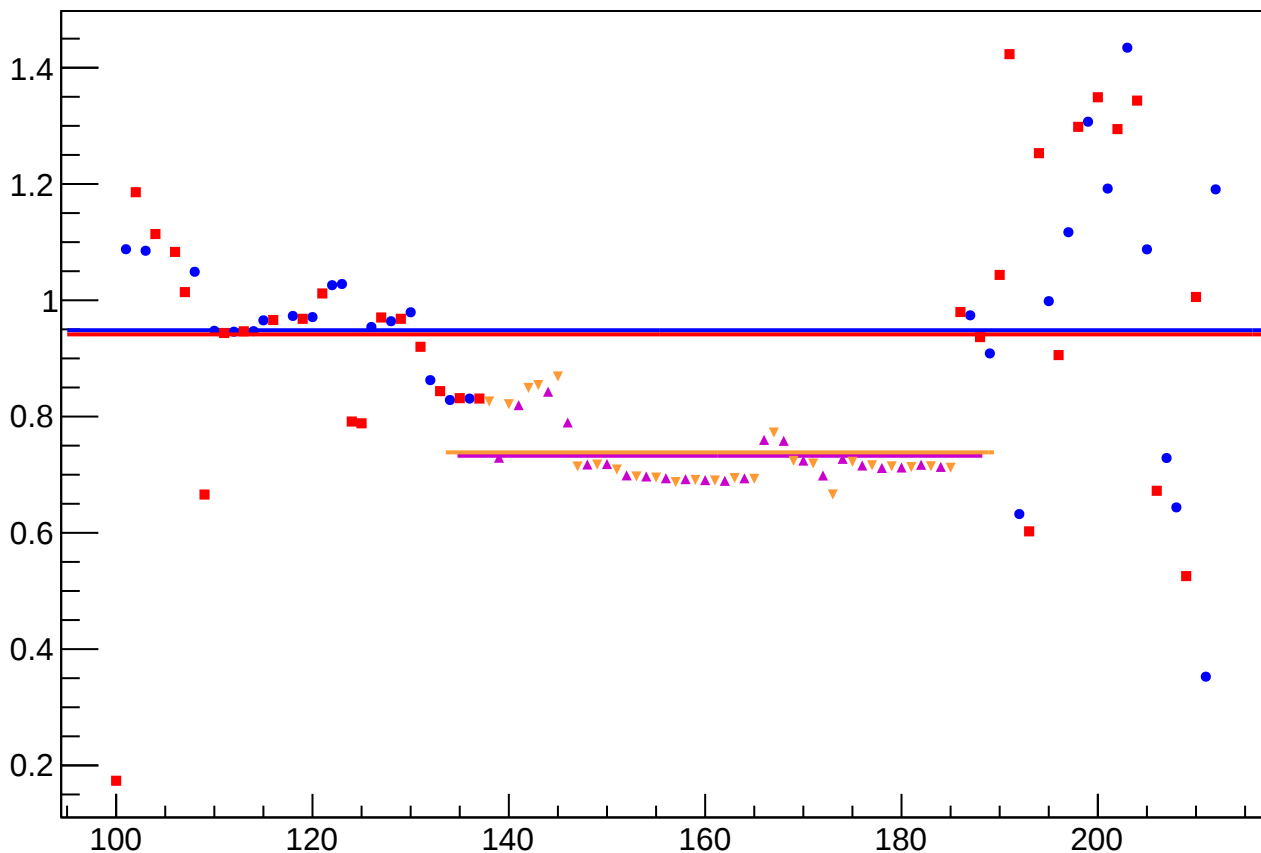
Right: 0.020+/-0.000 χ^2/NDF : 9379329.9/62

In: 0.015+/-0.000 χ^2/NDF :7969134.9/52

Out: 0.015+/-0.000 χ^2/NDF :10054123.7/57

All: 0.015+/-0.000 χ^2/NDF : 18031163.4/110

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.948+/-0.000 χ^2/NDF : 910395610.3/29

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.941+/-0.000 χ^2/NDF : 1131407400.8/32

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

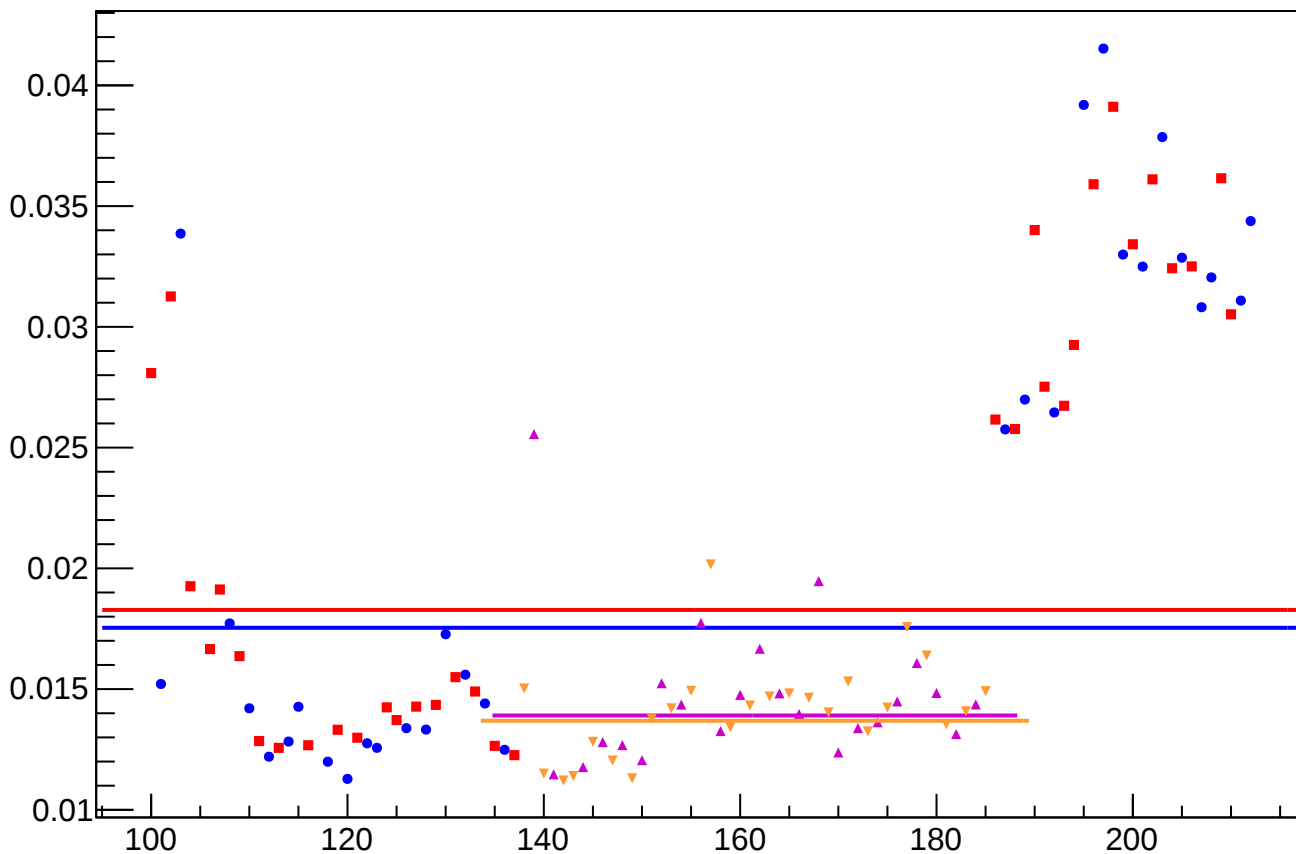
Right: 0.945+/-0.000 χ^2/NDF : 2042780902.1/62

In: 0.803+/-0.000 χ^2/NDF : 2301103708.8/52

Out: 0.801+/-0.000 χ^2/NDF : 2532724425.2/57

All: 0.802+/-0.000 χ^2/NDF : 4834268258.0/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2/NDF : 5153894.4/29

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 528480.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2/NDF : 4528802.7/32

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

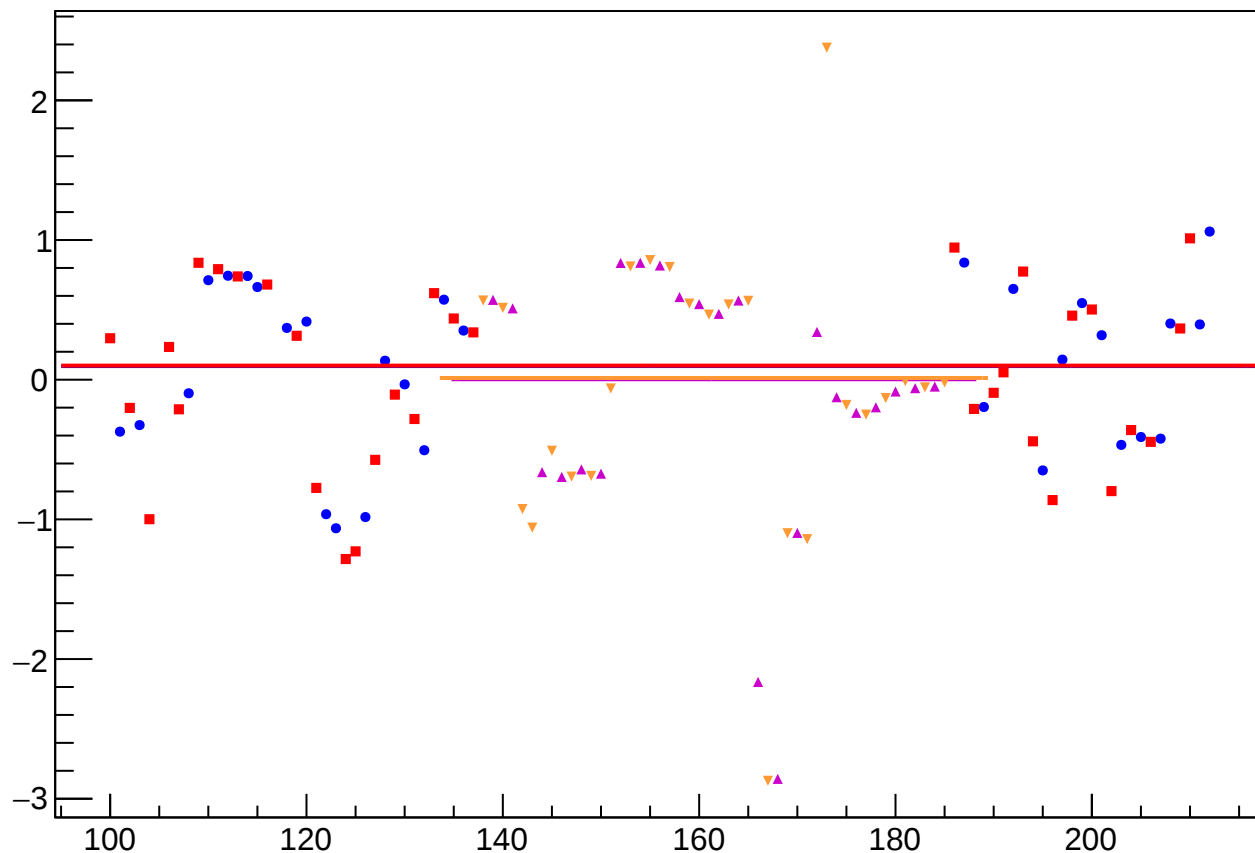
Right: 0.018 $\pm$ 0.000 χ^2/NDF : 9703836.7/62

In: 0.015 $\pm$ 0.000 χ^2/NDF : 6612800.1/52

Out: 0.015 $\pm$ 0.000 χ^2/NDF : 6173020.4/57

All: 0.015 $\pm$ 0.000 χ^2/NDF : 12785820.5/110

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.098+/-0.000

χ^2/NDF : 28147605209.5/29

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.099+/-0.000 χ^2/NDF : 65973971489.4/62

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.048+/-0.000 χ^2/NDF : 107421153602.6/52

Right Out: 0.101+/-0.000

χ^2/NDF : 37825906228.4/32

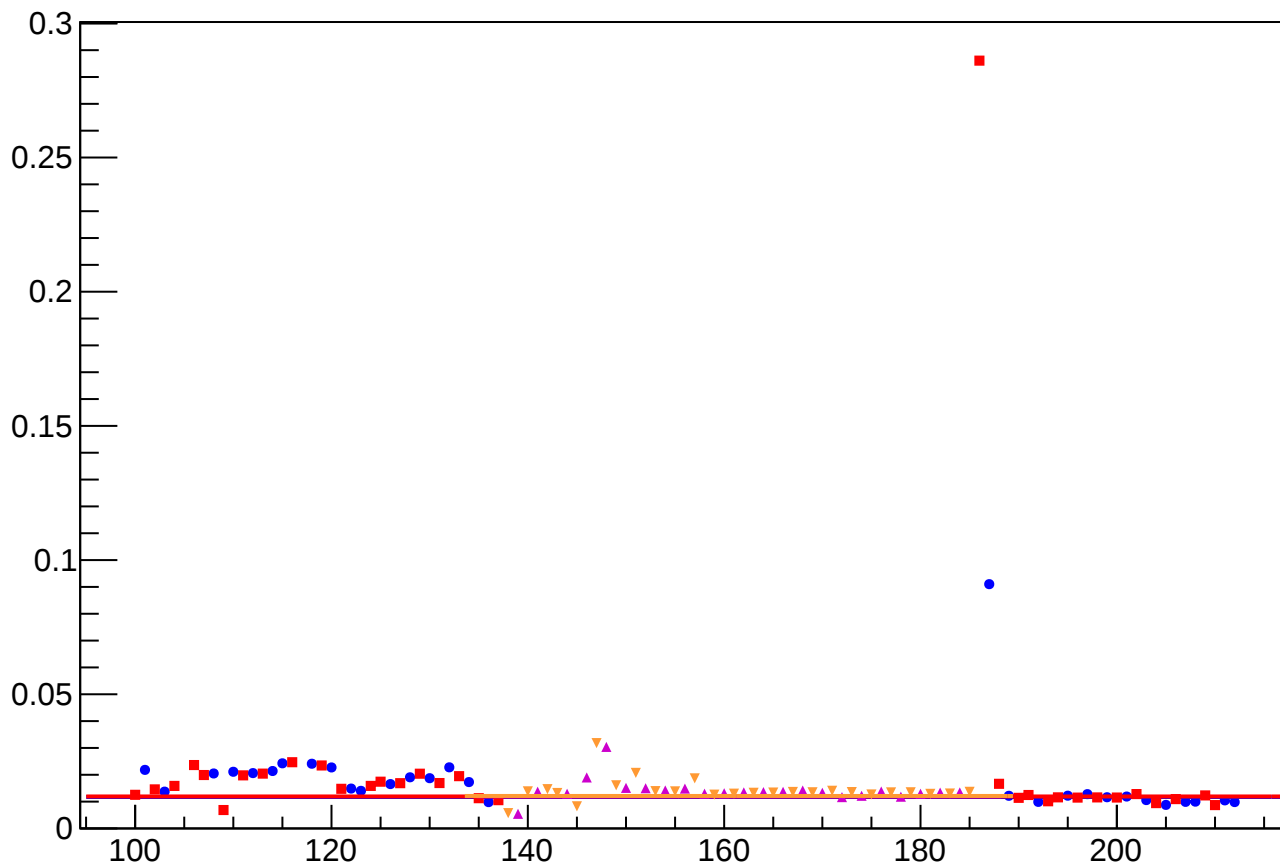
Out: 0.053+/-0.000 χ^2/NDF : 134603937986.5/57

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.051+/-0.000 χ^2/NDF : 242027440301.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2437564.6/29

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2874048.4/32

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

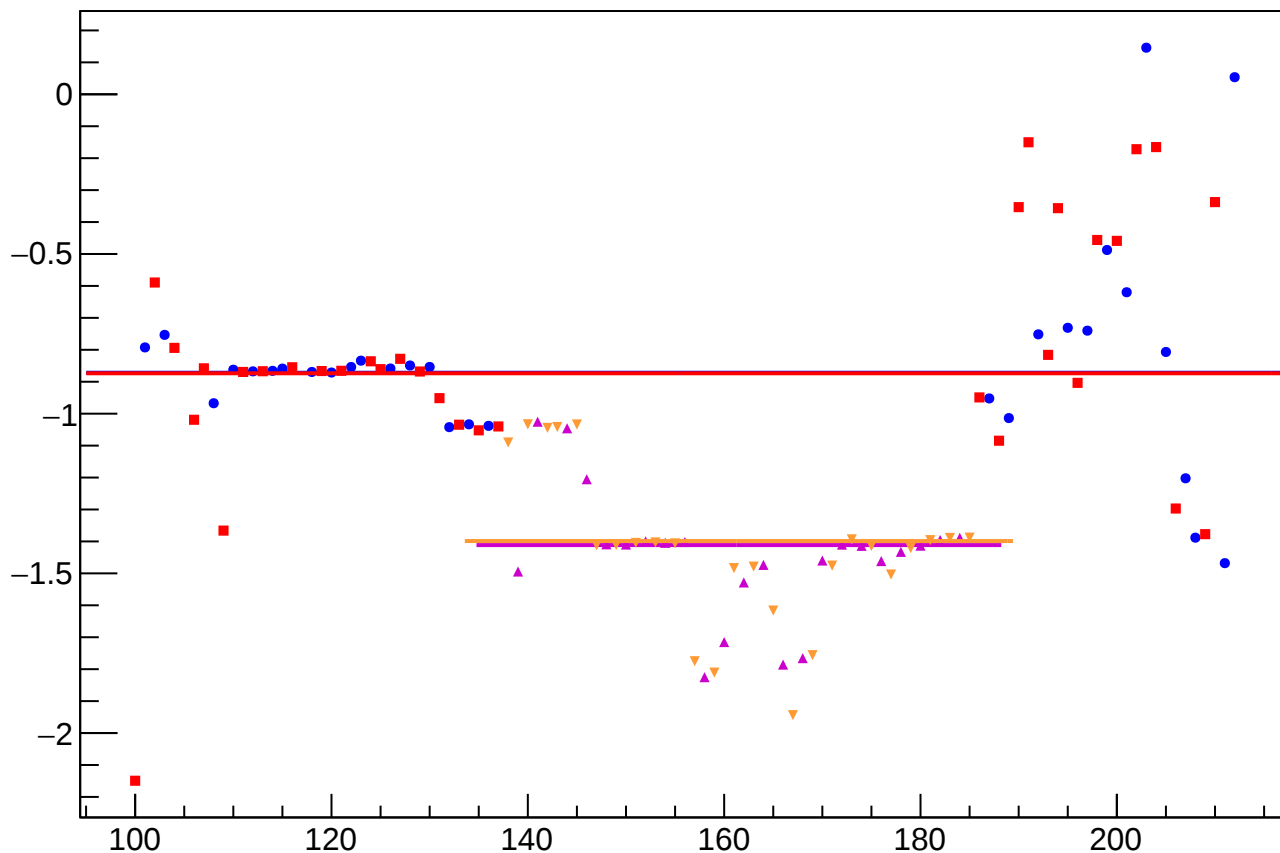
Right: 0.012+/-0.000 χ^2/NDF : 5315137.9/62

In: 0.012+/-0.000 χ^2/NDF :5448441.2/52

Out: 0.012+/-0.000 χ^2/NDF :5982847.6/57

All: 0.012+/-0.000 χ^2/NDF : 11435966.6/110

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.872 ± 0.000 χ^2/NDF : 339722548.2/29

Left Out: -1.399 ± 0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.874 ± 0.000 χ^2/NDF : 449078954.7/32

Left In: -1.411 ± 0.000 χ^2/NDF : 512547995.0/22

Left: -1.405 ± 0.000 χ^2/NDF : 1251791467.1/47

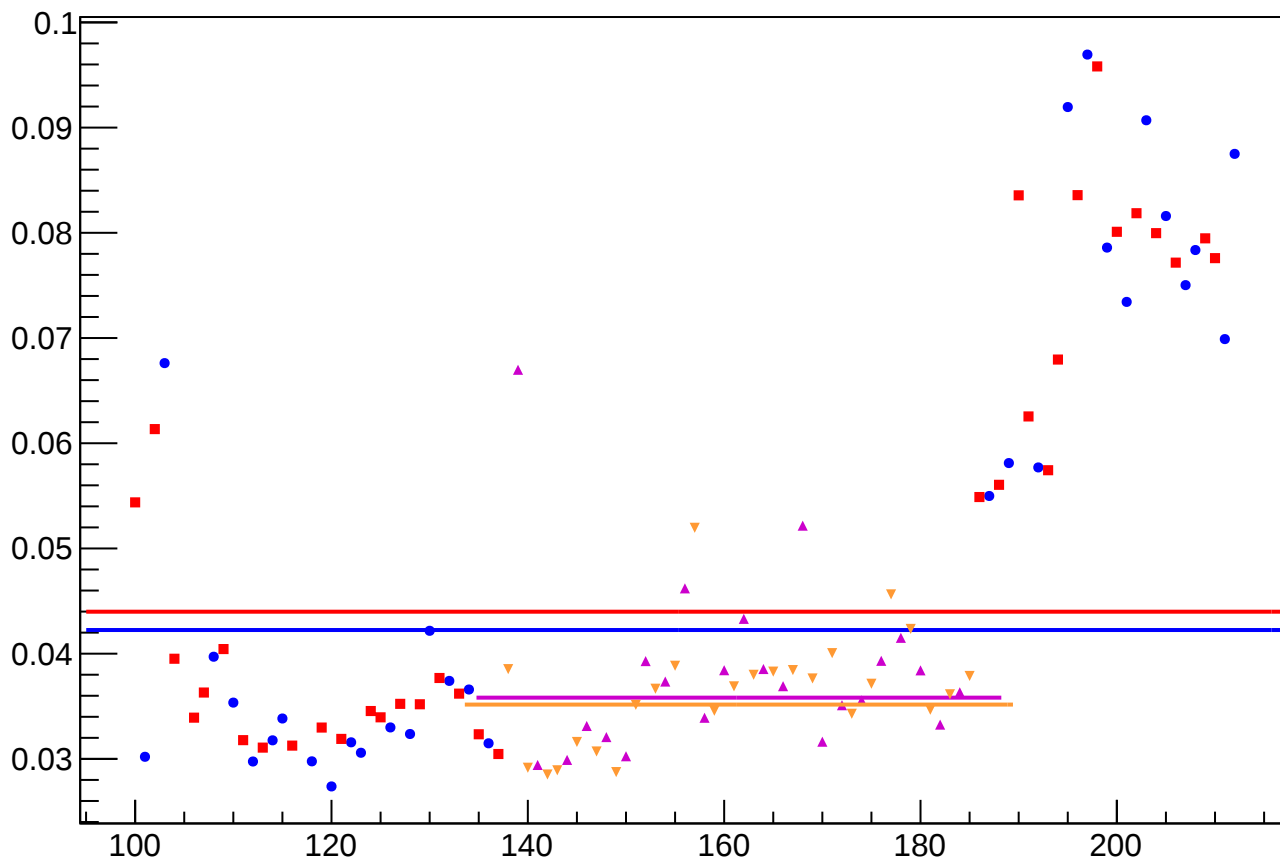
Right: -0.873 ± 0.000 χ^2/NDF : 788810563.5/62

In: -1.214 ± 0.000 χ^2/NDF : 2122955449.1/52

Out: -1.219 ± 0.000 χ^2/NDF : 2412551102.6/57

All: -1.216 ± 0.000 χ^2/NDF : 4535776083.2/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 4892916.1/29

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.044 $\pm$ 0.000 χ^2 /NDF: 4042361.7/32

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

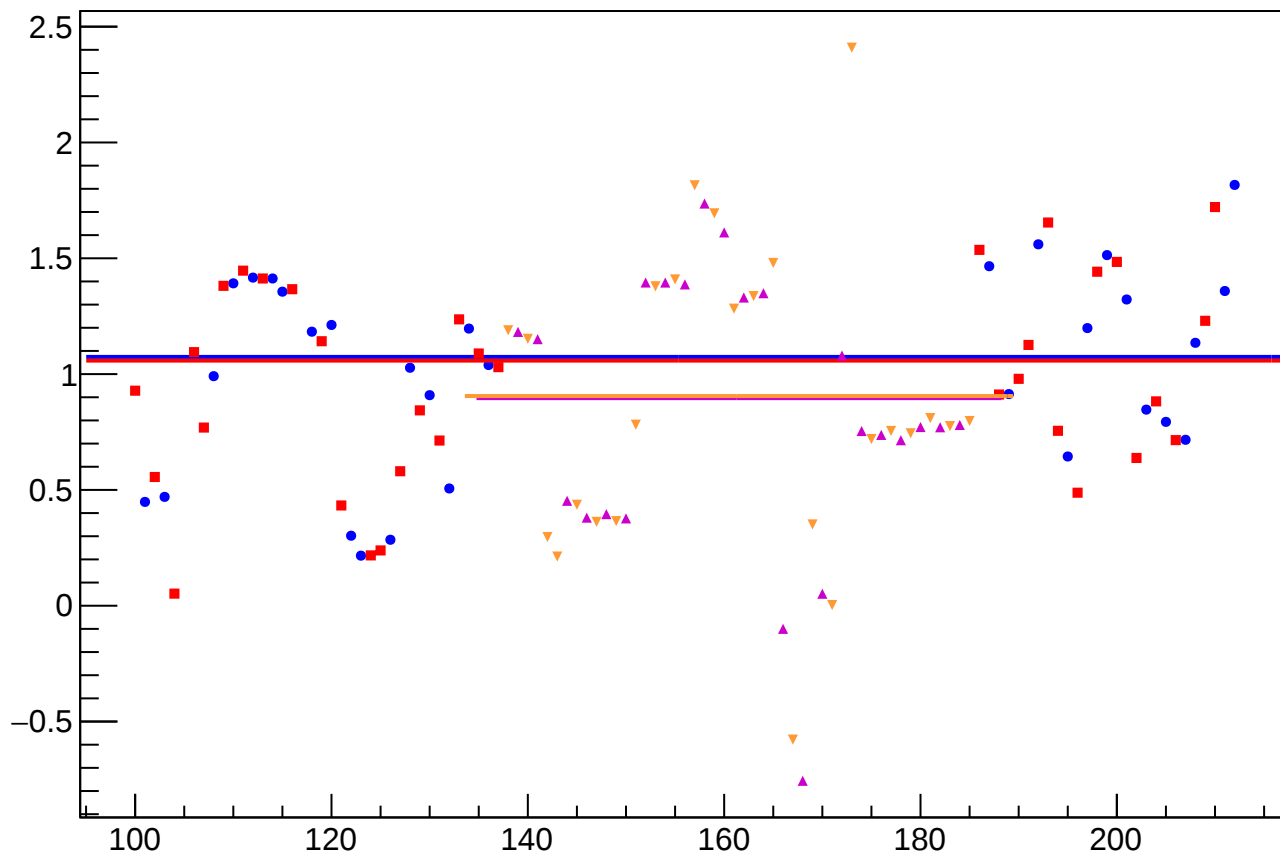
Right: 0.043 $\pm$ 0.000 χ^2 /NDF: 8955964.8/62

In: 0.038 $\pm$ 0.000 χ^2 /NDF:6117719.5/52

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:5329637.4/57

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 11447358.1/110

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.074+/-0.000

χ^2/NDF : 36823140573.6/29

Left: 0.901+/-0.000 χ^2/NDF : 150868618084.6/47

Right: 1.067+/-0.000 χ^2/NDF : 74920927700.1/62

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

In: 0.996+/-0.000 χ^2/NDF : 107040128910.0/52

Right Out: 1.058+/-0.000

χ^2/NDF : 38067403454.4/32

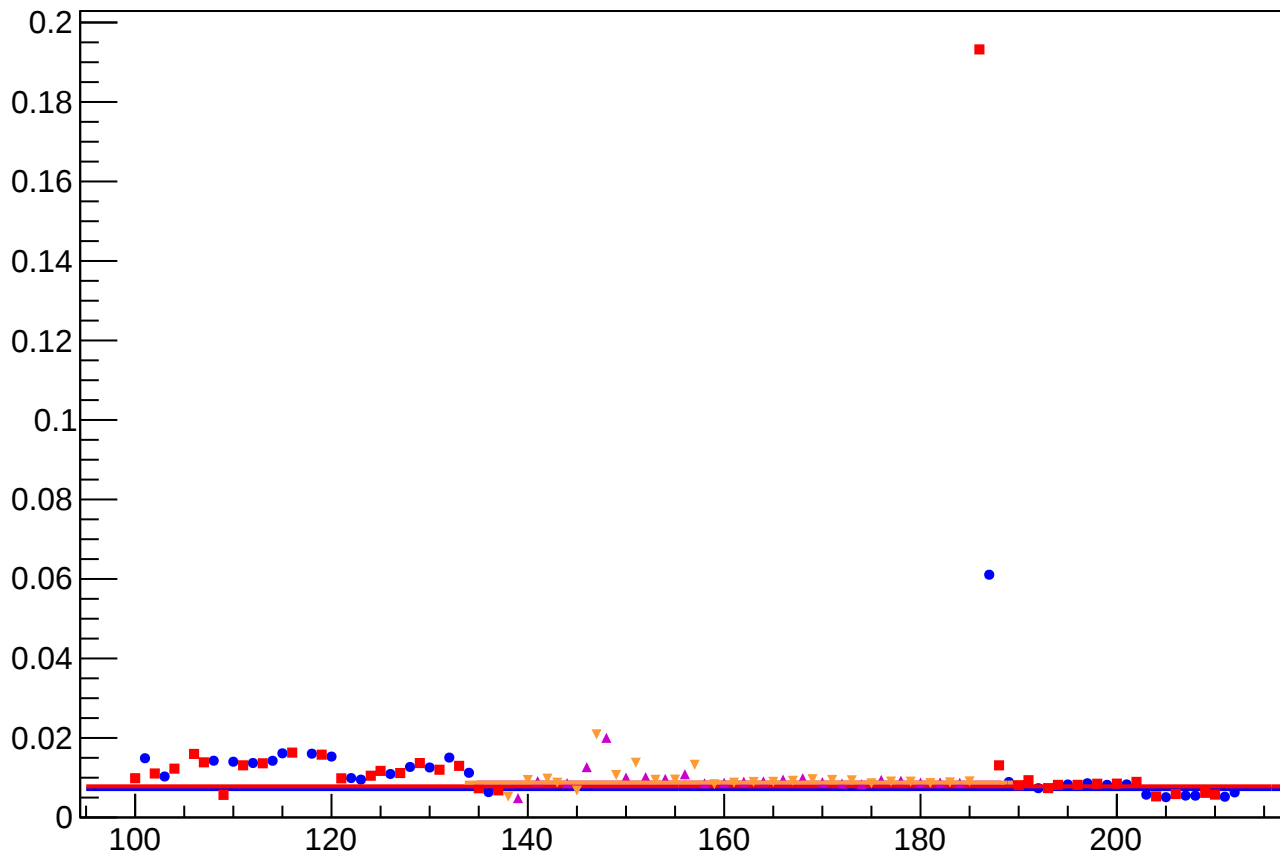
Out: 0.982+/-0.000 χ^2/NDF : 124903811672.4/57

Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 0.989+/-0.000 χ^2/NDF : 231985043649.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3466258.3/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1697568.1/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3438684.6/32

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1607939.0/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3305514.2/47

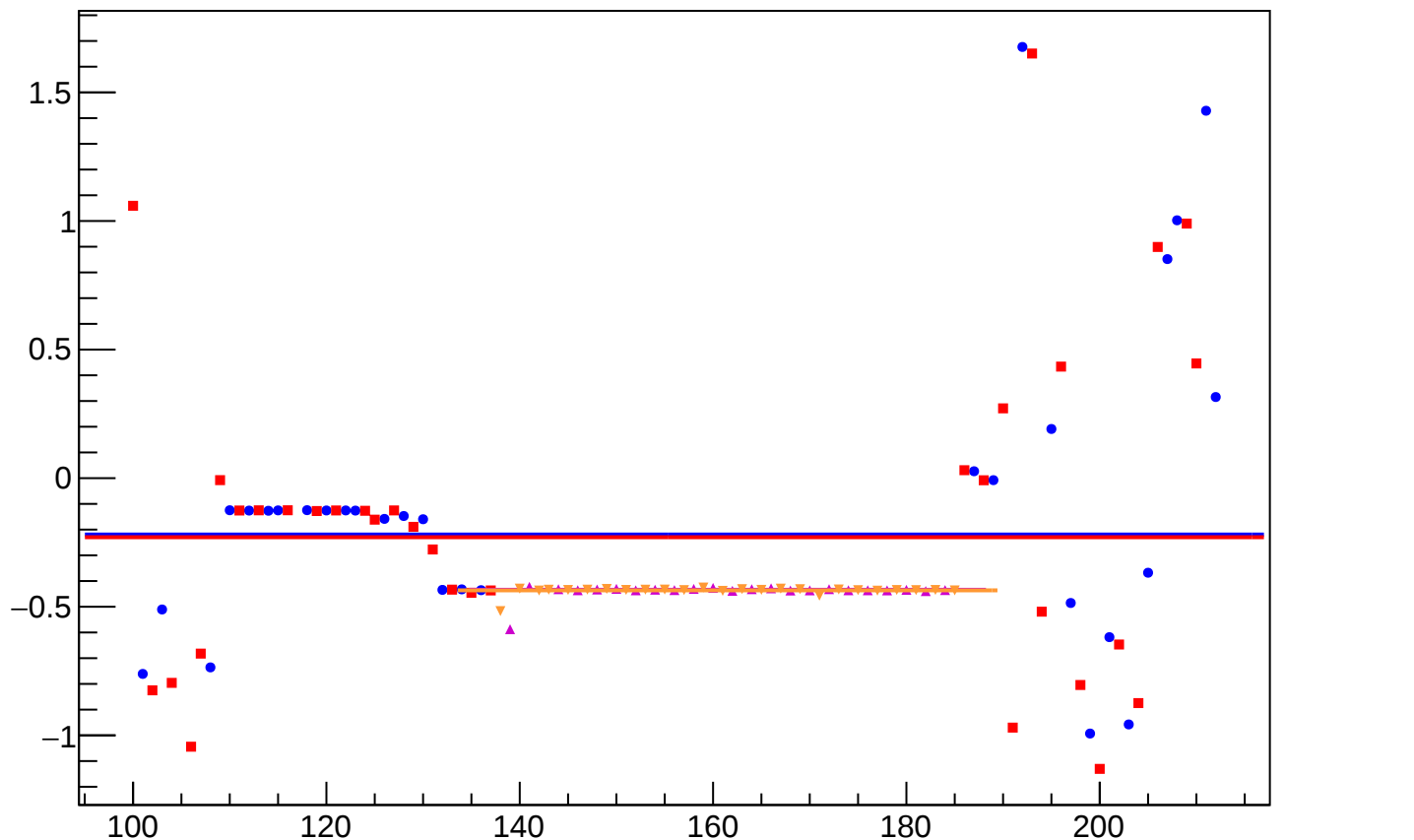
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 7019977.1/62

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5687975.9/52

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5334168.6/57

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 11110980.6/110

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.219+/-0.000 χ^2/NDF : 4754262104.3/29

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.230+/-0.000 χ^2/NDF : 3417086381.9/32

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

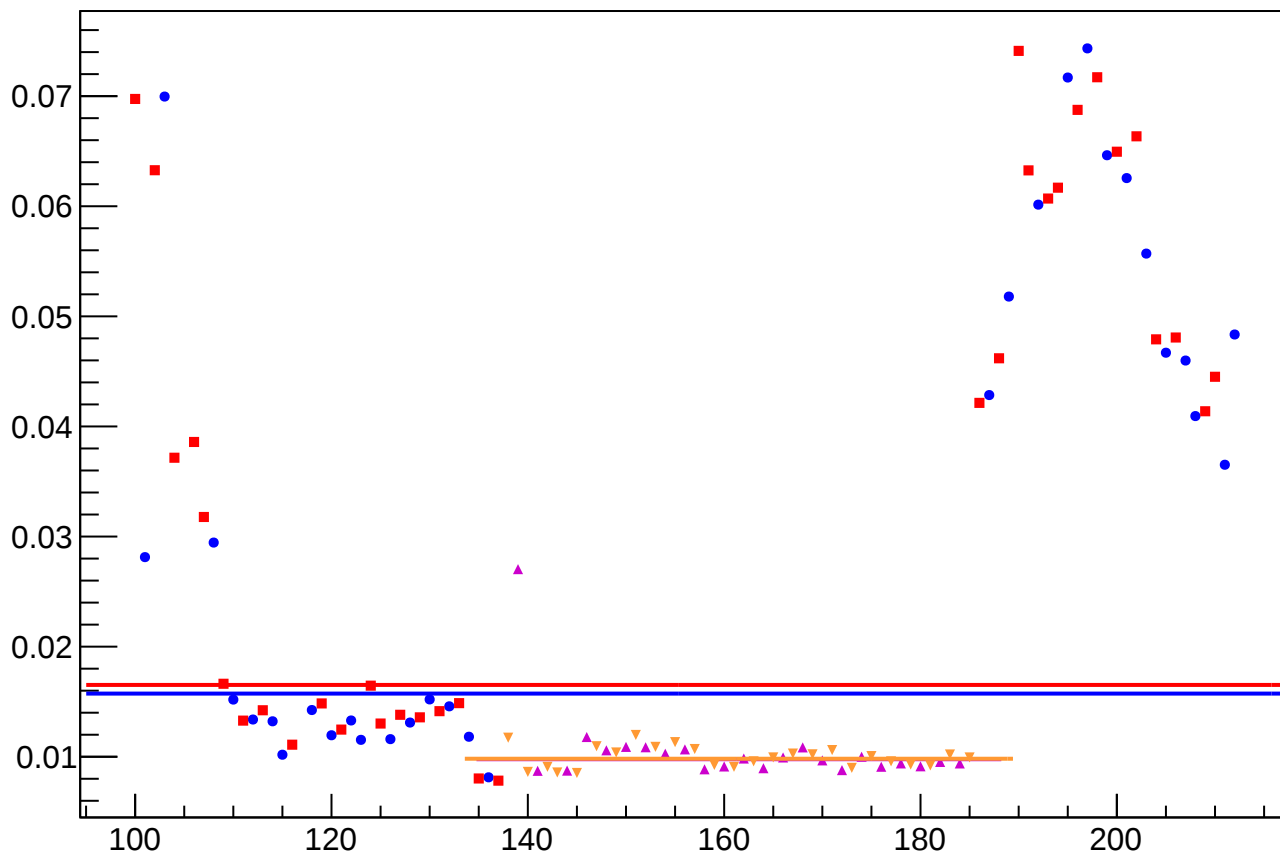
Right: -0.224+/-0.000 χ^2/NDF : 8173209262.2/62

In: -0.394+/-0.000 χ^2/NDF : 6101162495.3/52

Out: -0.401+/-0.000 χ^2/NDF : 4613650827.0/57

All: -0.398+/-0.000 χ^2/NDF : 10720474361.4/110

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 11357066.6/29

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.017+/-0.000 χ^2/NDF : 11653777.7/32

Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

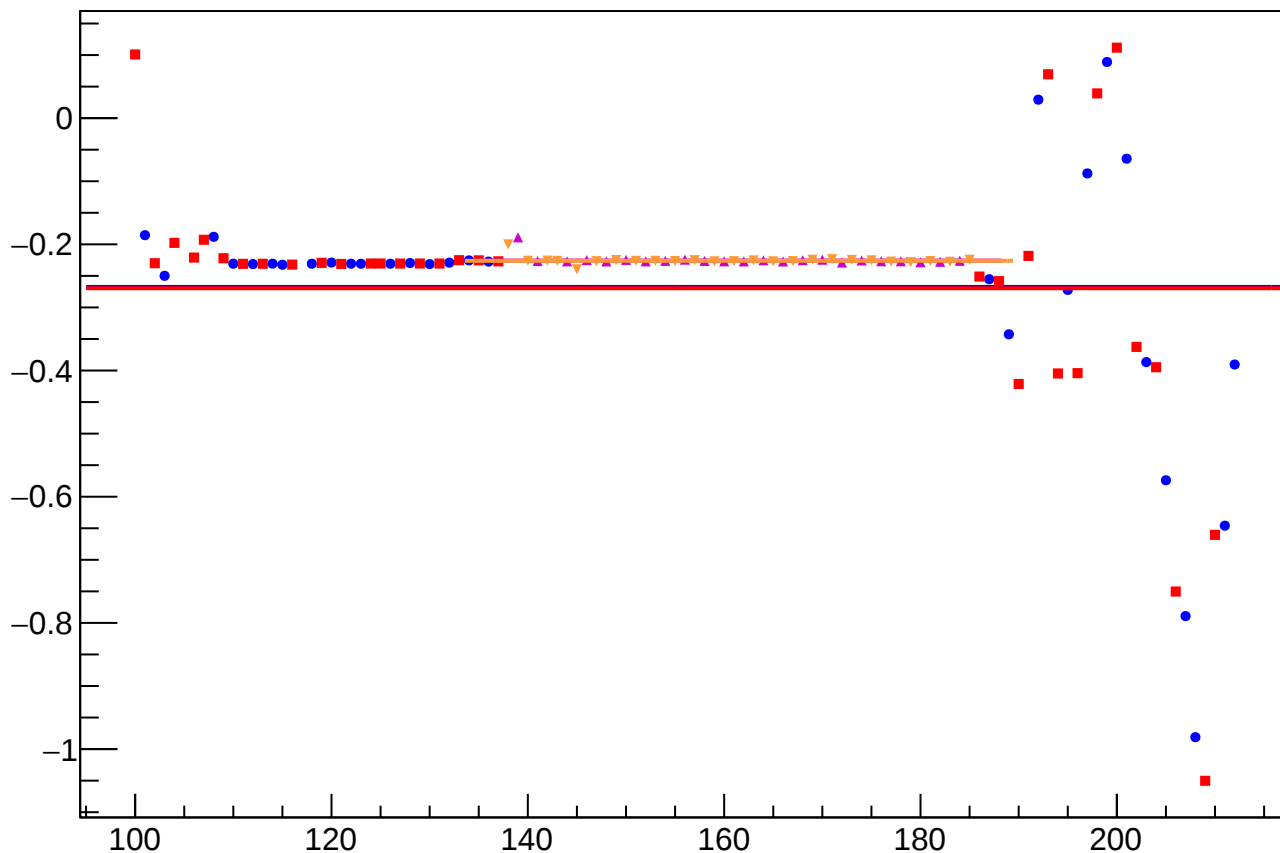
Right: 0.016+/-0.000 χ^2/NDF : 23031935.4/62

In: 0.011+/-0.000 χ^2/NDF : 14141845.7/52

Out: 0.011+/-0.000 χ^2/NDF : 14382688.3/57

All: 0.011+/-0.000 χ^2/NDF : 28525127.4/110

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.268 $\pm$ 0.000 χ^2 /NDF: 24829609332.4/29

Left Out: -0.226 $\pm$ 0.000 χ^2 /NDF: 21205667.4/24

Right Out: -0.270 $\pm$ 0.000 χ^2 /NDF: 25183082549.0/32

Left In: -0.226 $\pm$ 0.000 χ^2 /NDF: 15245251.1/22

Left: -0.226 $\pm$ 0.000 χ^2 /NDF: 36480793.2/47

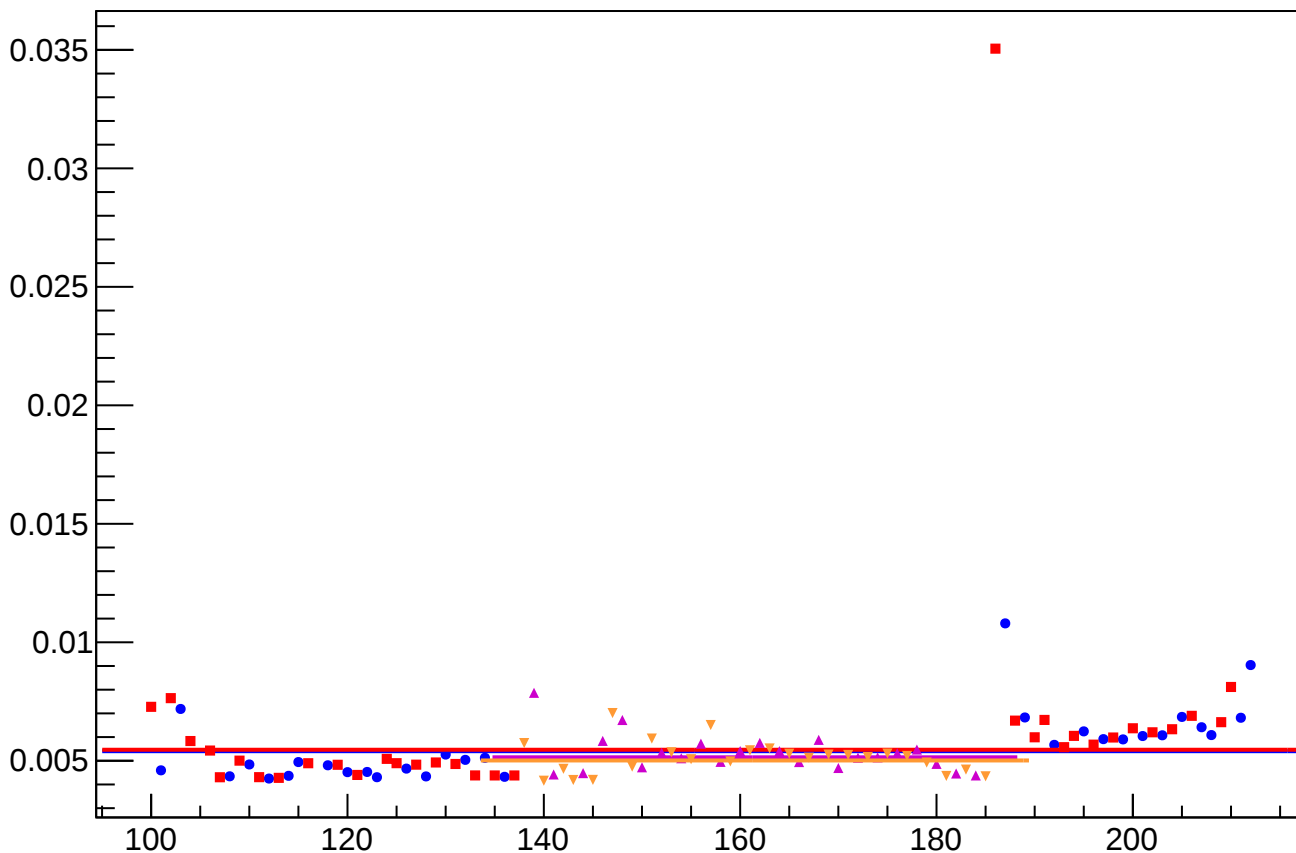
Right: -0.269 $\pm$ 0.000 χ^2 /NDF: 50013688358.1/62

In: -0.244 $\pm$ 0.000 χ^2 /NDF: 25322103305.8/52

Out: -0.244 $\pm$ 0.000 χ^2 /NDF: 25747804852.0/57

All: -0.244 $\pm$ 0.000 χ^2 /NDF: 51069908700.9/110

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1077522.3/29

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1445939.2/32

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

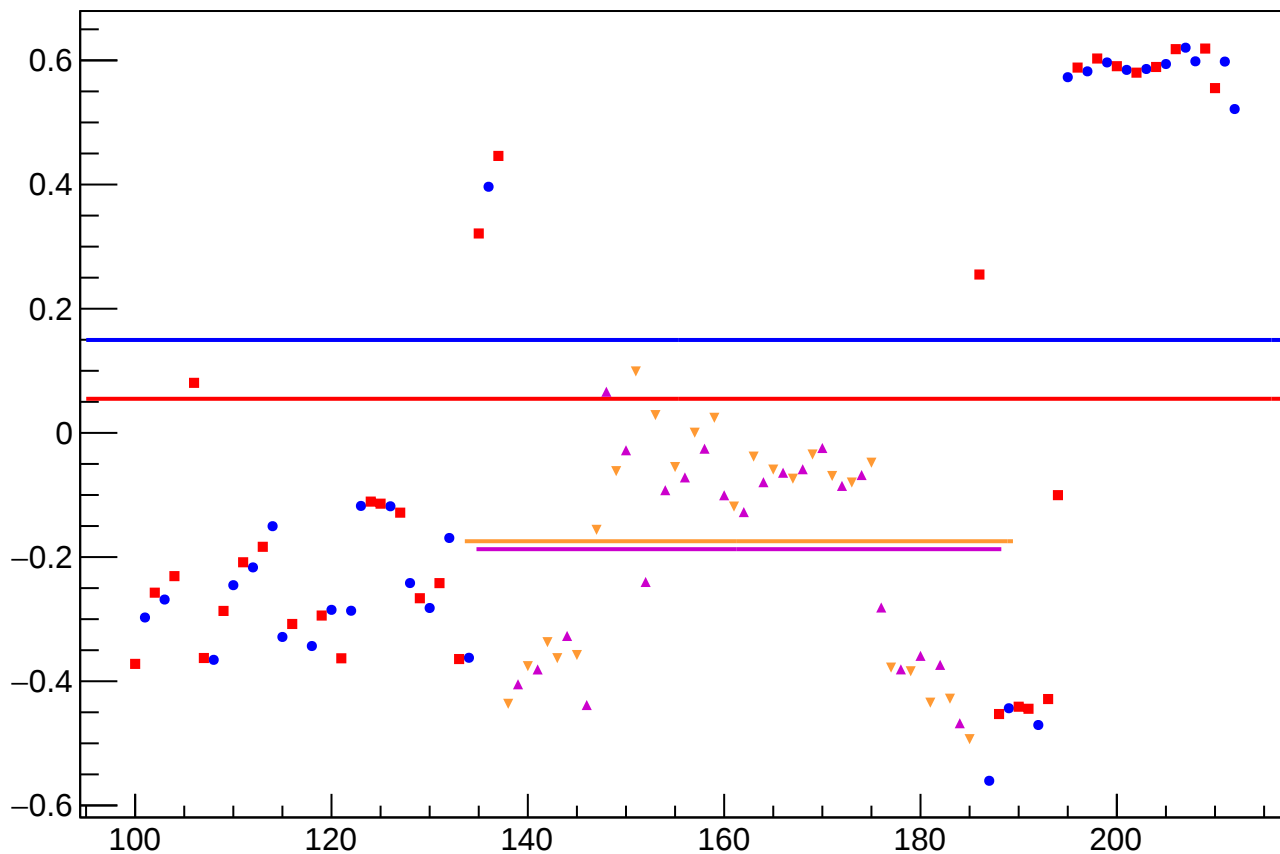
Right: 0.005+/-0.000 χ^2/NDF : 2525290.0/62

In: 0.005+/-0.000 χ^2/NDF : 1607020.5/52

Out: 0.005+/-0.000 χ^2/NDF : 2093763.0/57

All: 0.005+/-0.000 χ^2/NDF : 3704630.1/110

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.150+/-0.000

χ^2/NDF : 65978318235.5/29

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.101+/-0.000

χ^2/NDF : 130964740834.7/62

Right Out: 0.055+/-0.000

χ^2/NDF : 63465374227.2/32

In: -0.060+/-0.000

χ^2/NDF : 102186391865.5/52

Out: -0.088+/-0.000

χ^2/NDF : 92918716434.3/57

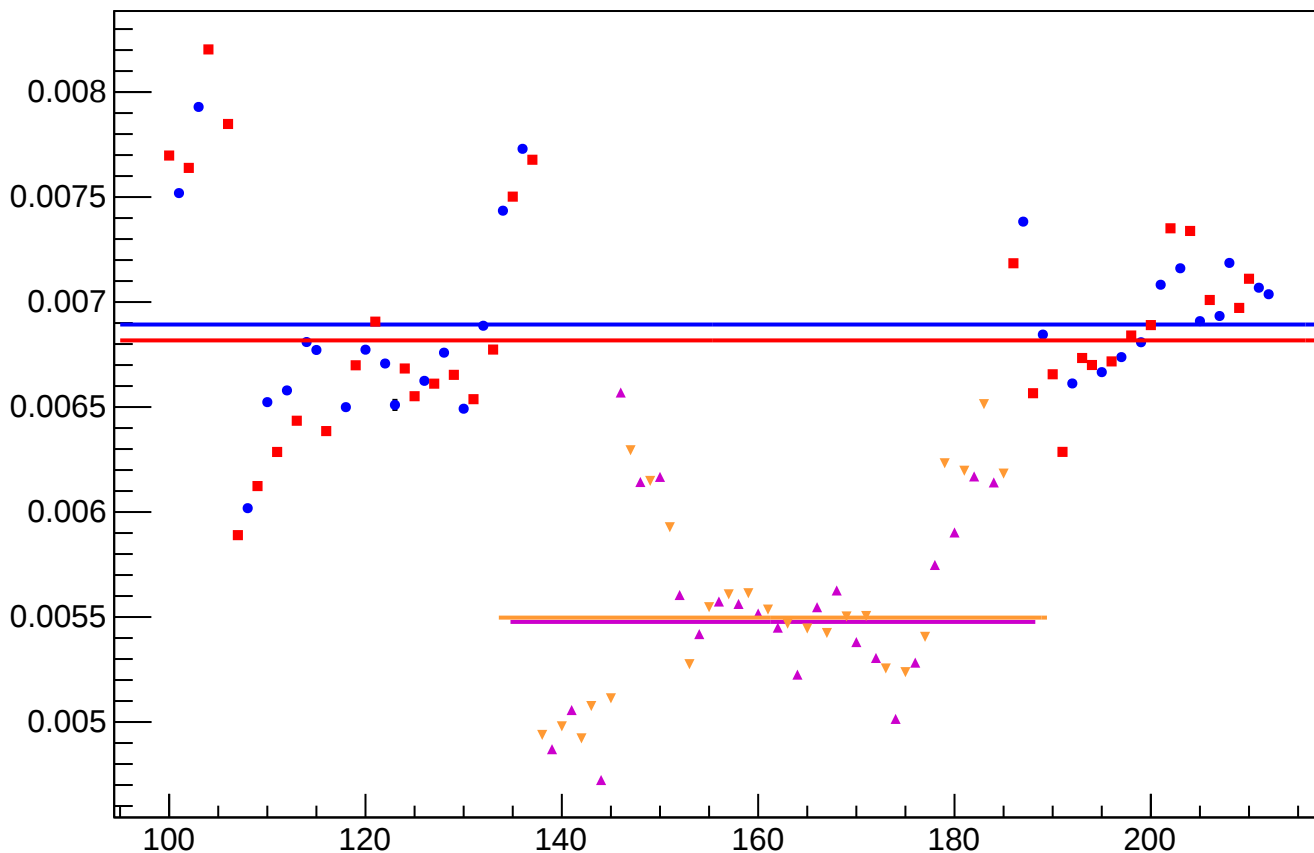
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.075+/-0.000

χ^2/NDF : 195455139797.9

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 93188.0/29

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 133398.8/32

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

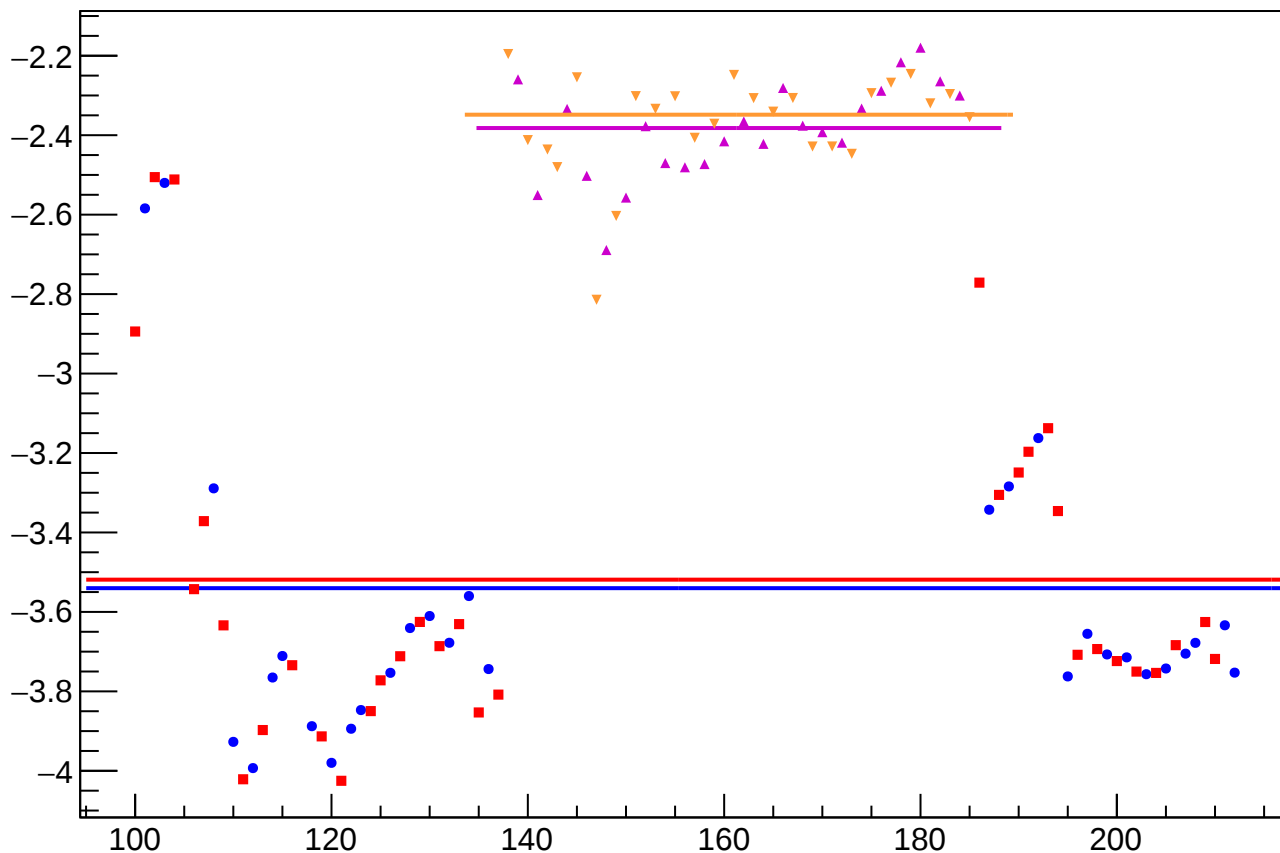
Right: 0.007+/-0.000 χ^2/NDF : 228526.8/62

In: 0.006+/-0.000 χ^2/NDF :1121885.8/52

Out: 0.006+/-0.000 χ^2/NDF :1088869.7/57

All: 0.006+/-0.000 χ^2/NDF : 2211006.7/110

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.540 $\pm$ 0.000 χ^2 /NDF: 30297689276.9/29

Left Out: -2.348 $\pm$ 0.000 χ^2 /NDF:2158686333.4/24

Right Out: -3.519 $\pm$ 0.000 χ^2 /NDF: 31073274346.8/32

Left In: -2.382 $\pm$ 0.000 χ^2 /NDF:2318395228.4/22

Left: -2.365 $\pm$ 0.000 χ^2 /NDF: 4600738143.2/47

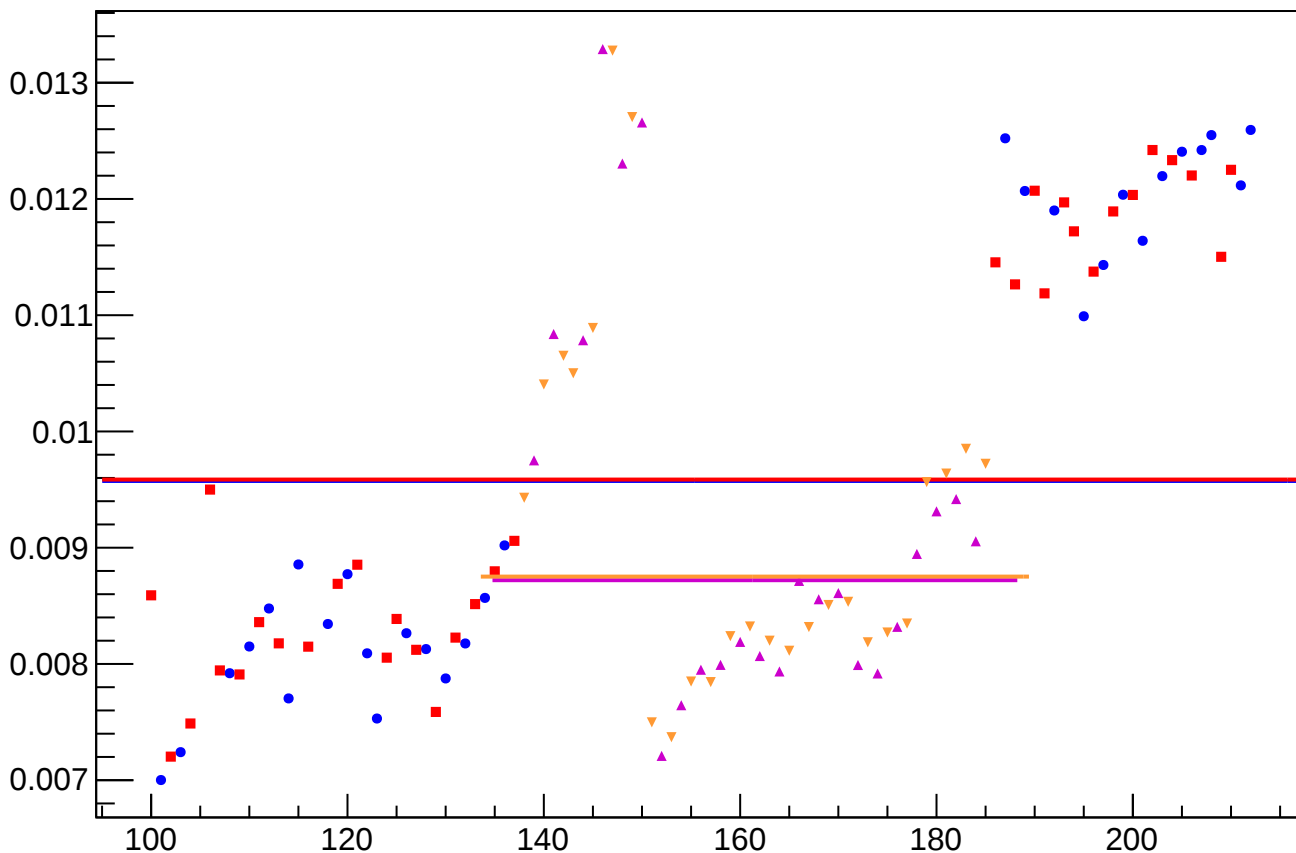
Right: -3.529 $\pm$ 0.000 χ^2 /NDF: 61409052657.6/62

In: -2.884 $\pm$ 0.000 χ^2 /NDF:156723341757.4/52

Out: -2.850 $\pm$ 0.000 χ^2 /NDF:165238093913.6/57

All: -2.867 $\pm$ 0.000 χ^2 /NDF: 322188789059.0

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1304044.2/29

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1178183.9/32

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

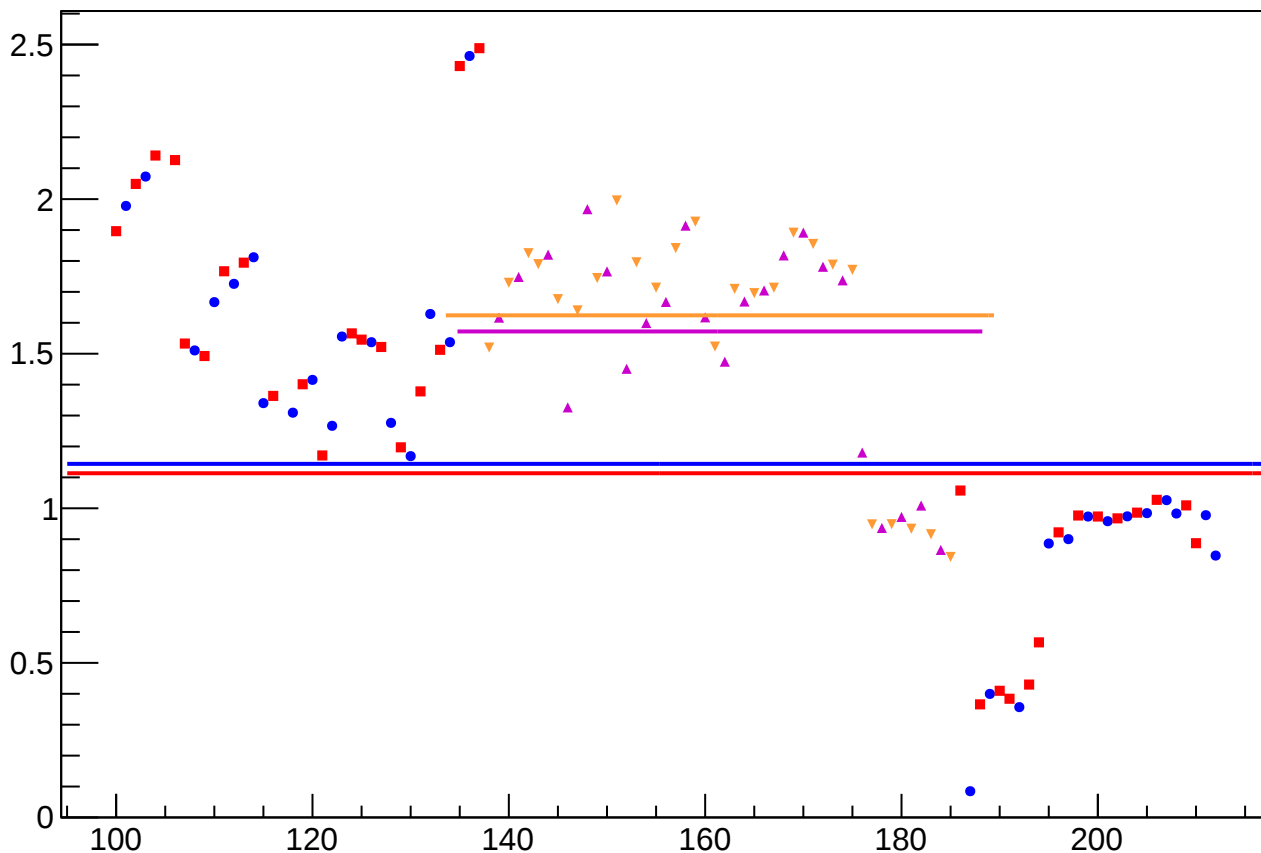
Right: 0.010+/-0.000 χ^2/NDF : 2482251.6/62

In: 0.009+/-0.000 χ^2/NDF : 2186768.0/52

Out: 0.009+/-0.000 χ^2/NDF : 1976141.9/57

All: 0.009+/-0.000 χ^2/NDF : 4163039.6/110

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.144+/-0.000 χ^2/NDF : 28171461543.3/29

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.113+/-0.000 χ^2/NDF : 32947462035.1/32

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

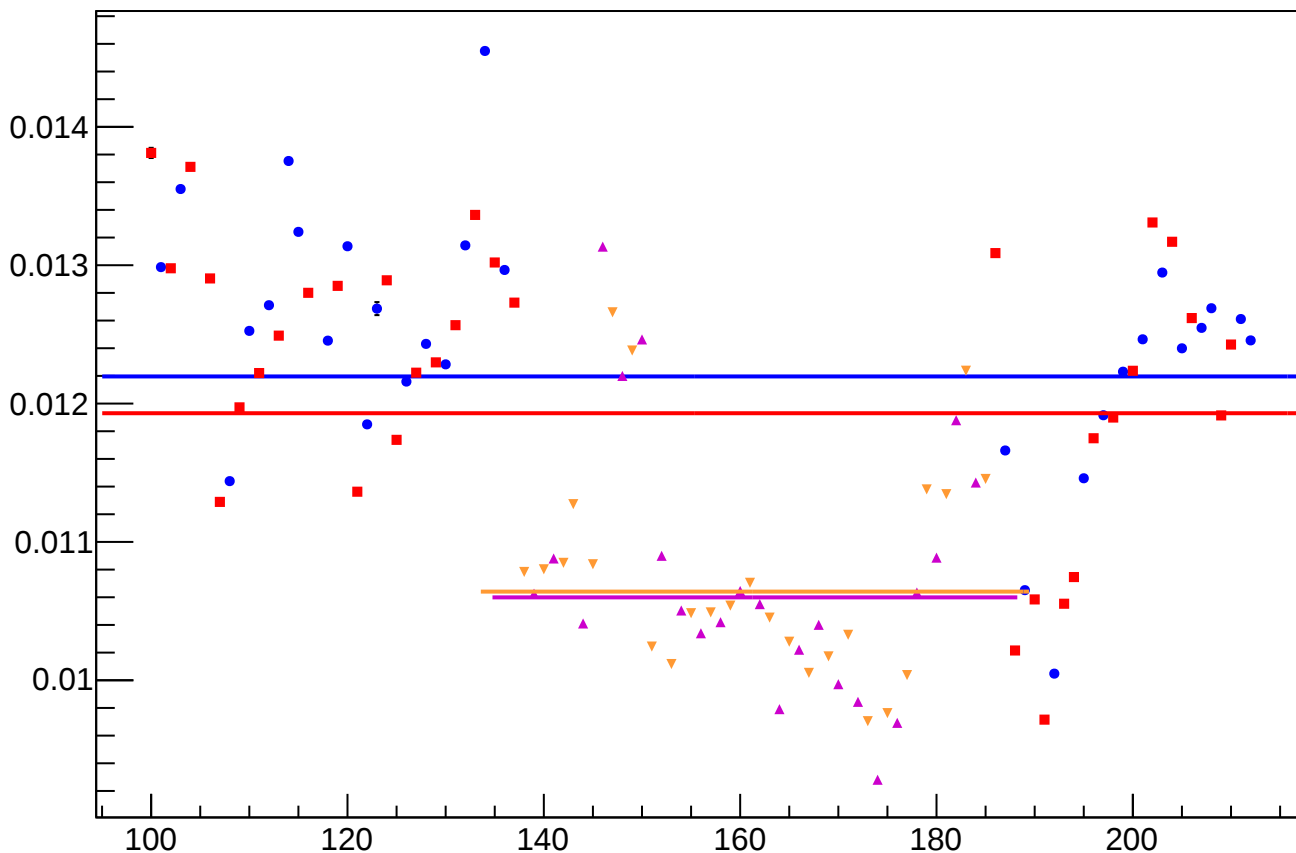
Right: 1.128+/-0.000 χ^2/NDF : 61168958683.2/62

In: 1.394+/-0.000 χ^2/NDF : 53646110400.6/52

Out: 1.410+/-0.000 χ^2/NDF : 66646181181.6/57

All: 1.402+/-0.000 χ^2/NDF : 120324215114.8

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 171602.0/29

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 233295.0/32

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

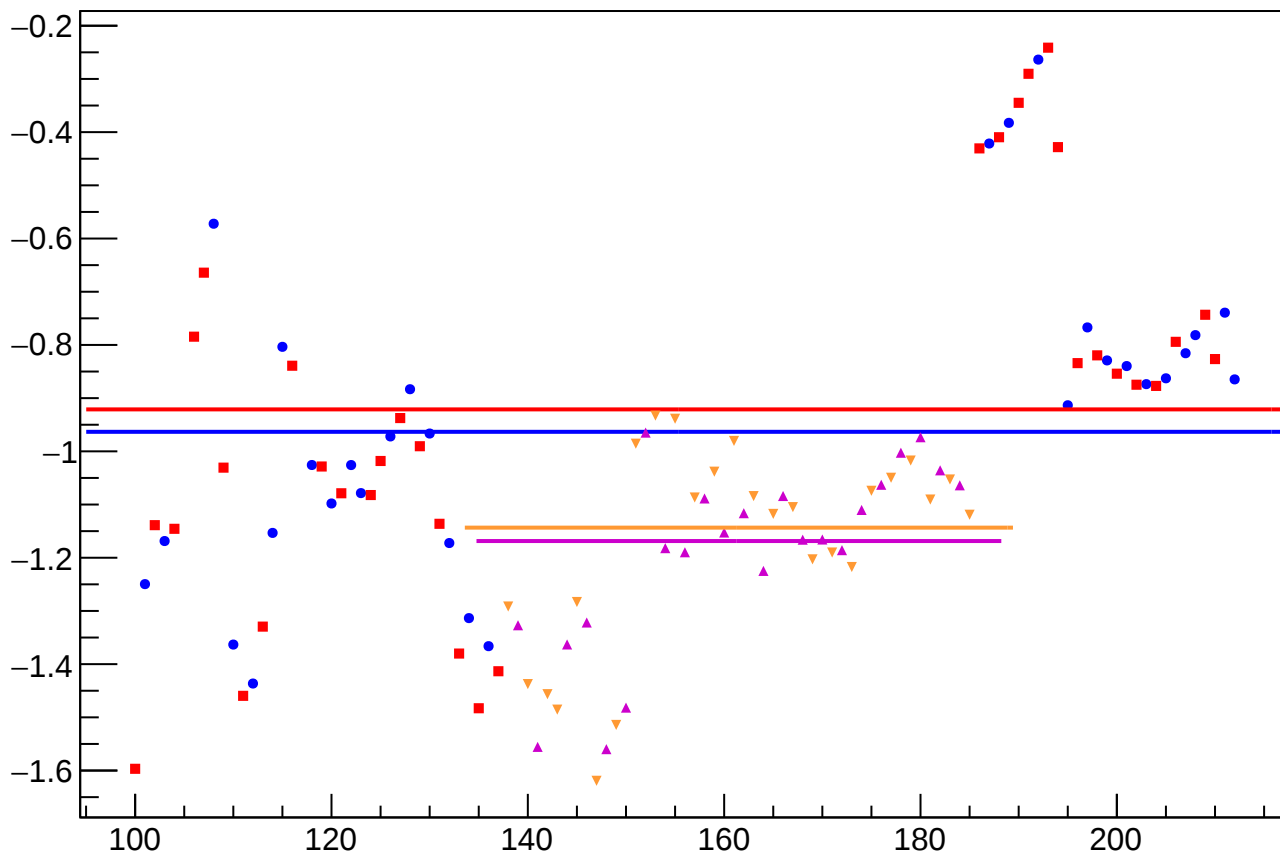
Right: 0.012+/-0.000 χ^2/NDF : 412572.3/62

In: 0.011+/-0.000 χ^2/NDF :688790.0/52

Out: 0.011+/-0.000 χ^2/NDF :610565.9/57

All: 0.011+/-0.000 χ^2/NDF : 1301032.4/110

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.963 ± 0.000 $\chi^2/\text{NDF}: 11432121260.5/29$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 16080452772.8/32$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

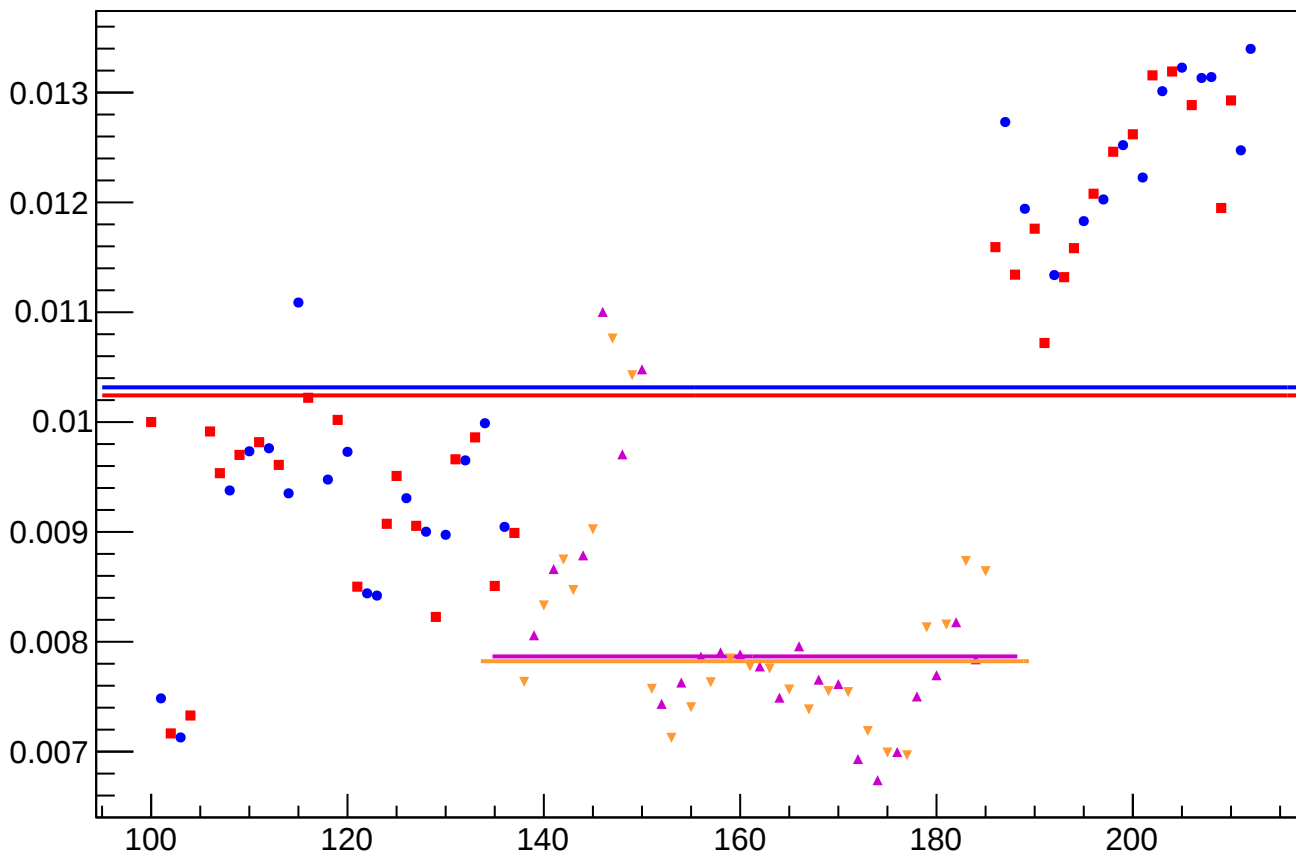
Right: -0.942 ± 0.000 $\chi^2/\text{NDF}: 27640027977.7/62$

In: -1.097 ± 0.000 $\chi^2/\text{NDF}: 21644521610.6/52$

Out: -1.067 ± 0.000 $\chi^2/\text{NDF}: 28817324270.8/57$

All: -1.082 ± 0.000 $\chi^2/\text{NDF}: 50650283277.6/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1110256.6/29

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1002054.8/32

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

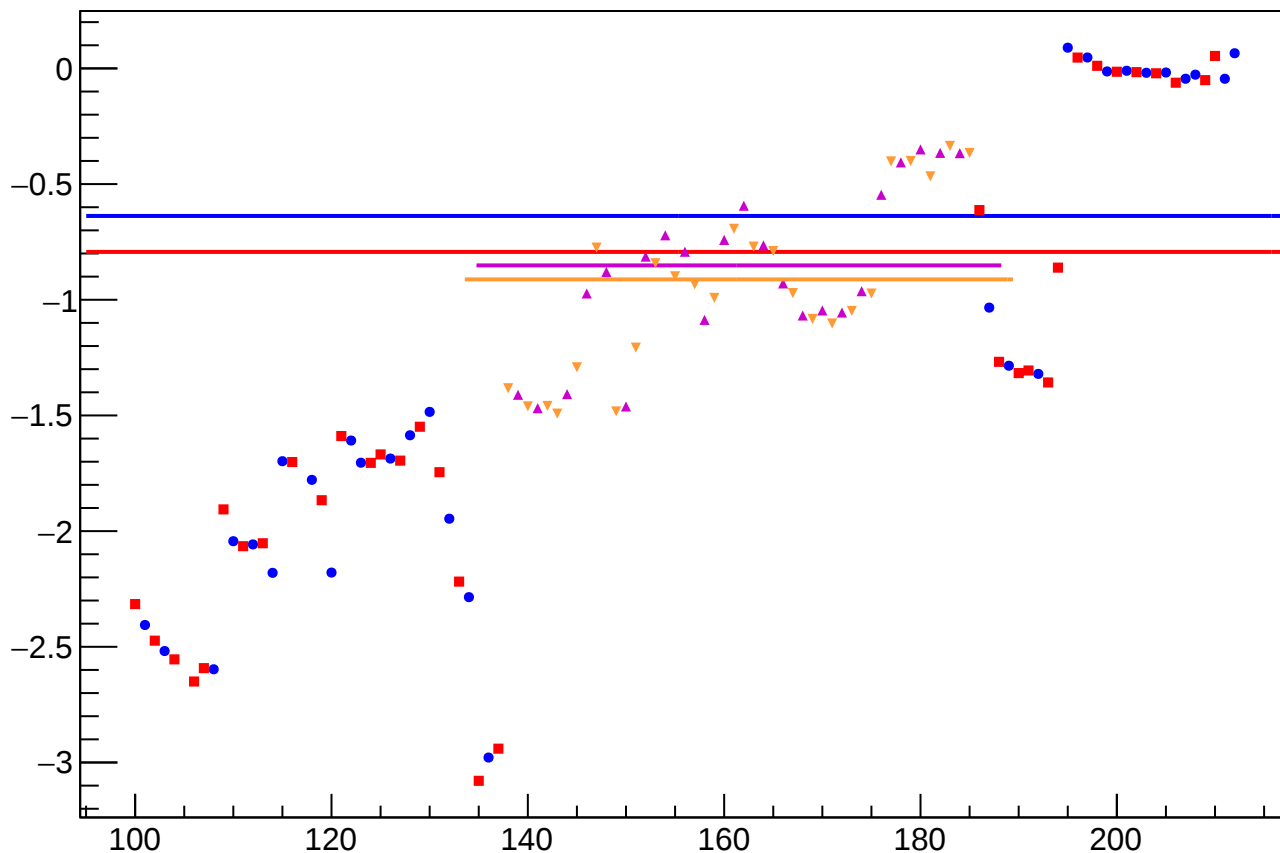
Right: 0.010+/-0.000 χ^2/NDF : 2113080.7/62

In: 0.009+/-0.000 χ^2/NDF :2586095.4/52

Out: 0.009+/-0.000 χ^2/NDF :2467184.6/57

All: 0.009+/-0.000 χ^2/NDF : 5054989.0/110

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.638 $\pm$ 0.000

χ^2 /NDF: 387668125098.1/29

Left: -0.882 $\pm$ 0.000

χ^2 /NDF: 96285672564.6/47

Left Out: -0.912 $\pm$ 0.000

χ^2 /NDF: 49039425818.1/24

Right: -0.720 $\pm$ 0.000

χ^2 /NDF: 797894399890.1/62

Right Out: -0.793 $\pm$ 0.000

χ^2 /NDF: 404969159584.0/32

In: -0.747 $\pm$ 0.000

χ^2 /NDF: 443781638875.1/52

Left In: -0.851 $\pm$ 0.000

χ^2 /NDF: 46438446008.2/22

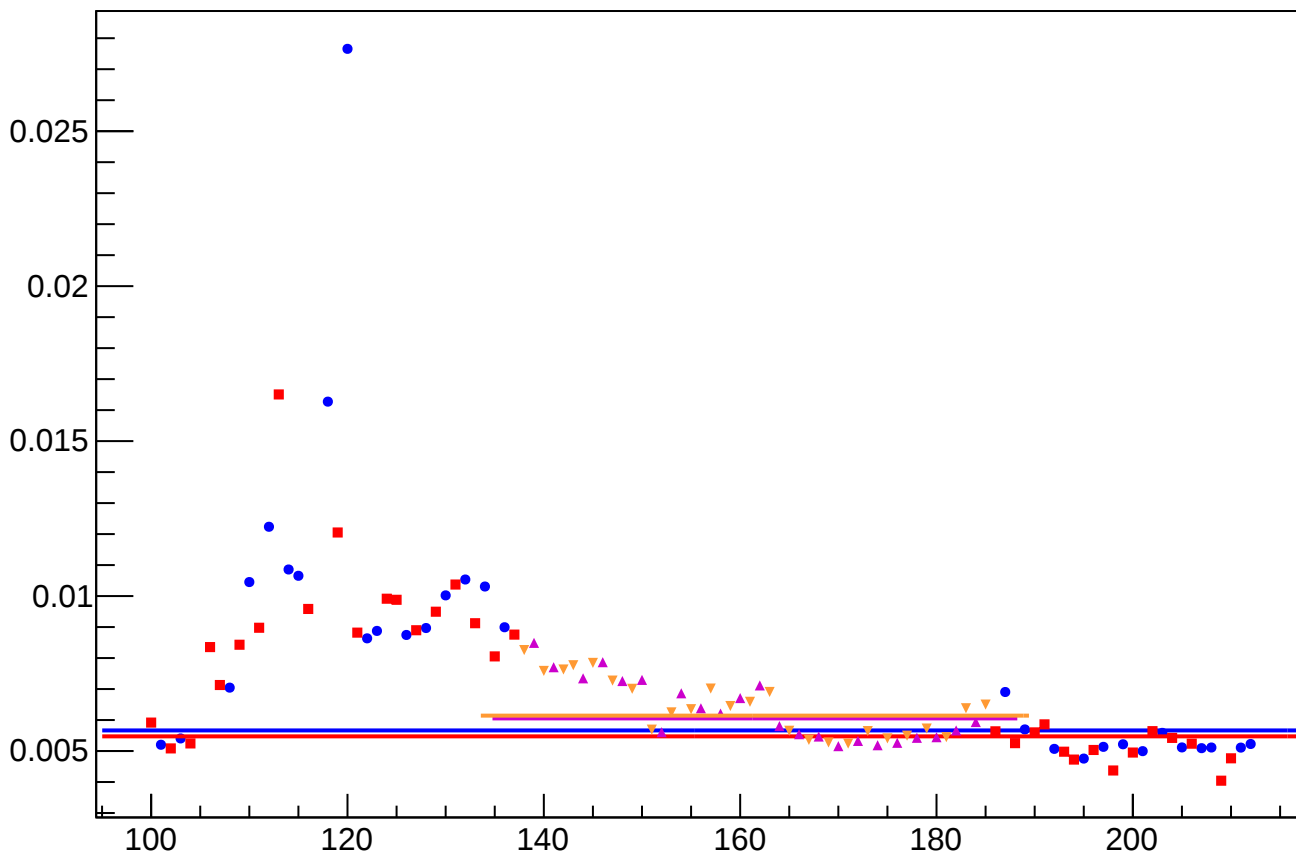
Out: -0.852 $\pm$ 0.000

χ^2 /NDF: 457210695478.4/57

All: -0.801 $\pm$ 0.000

χ^2 /NDF: 905745964135.5

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2056946.5/29

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2126640.0/32

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

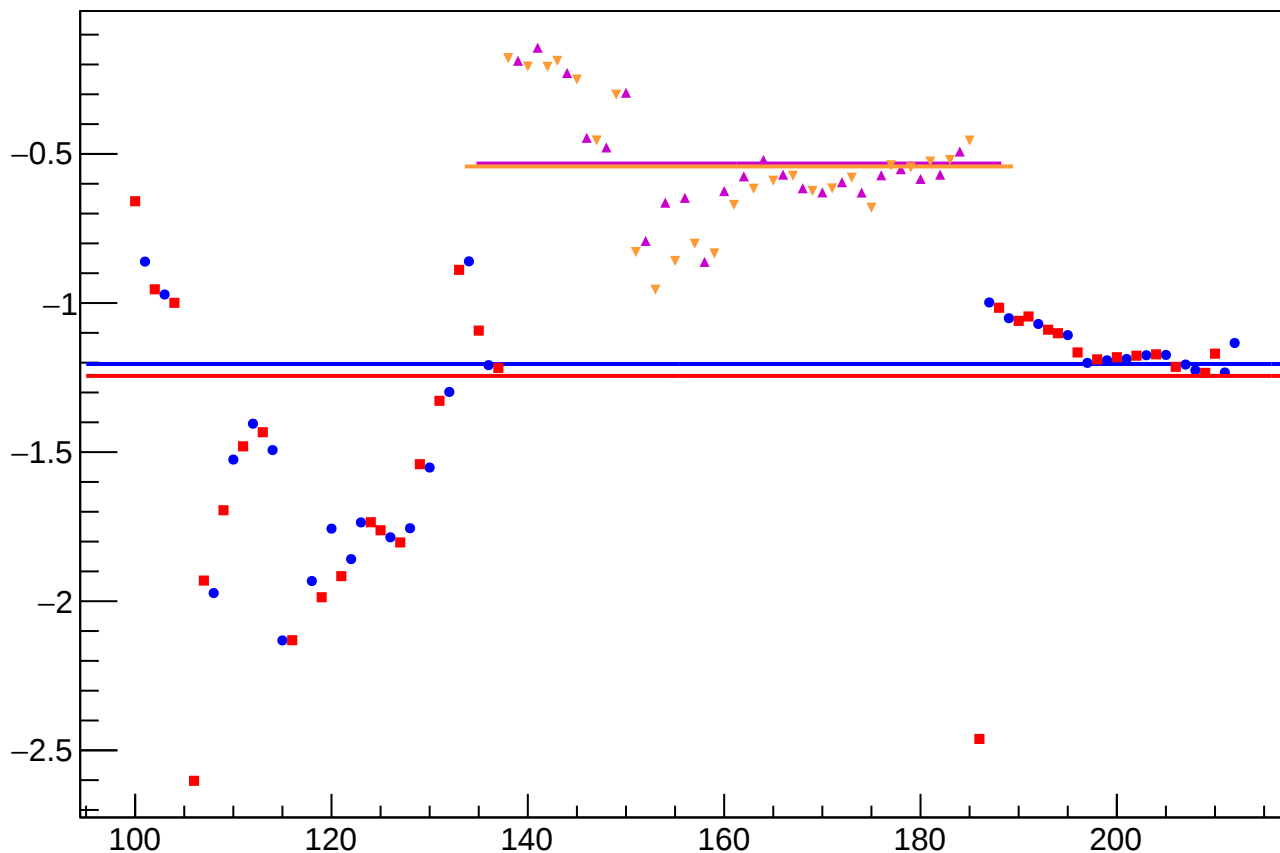
Right: 0.006+/-0.000 χ^2/NDF : 4199556.8/62

In: 0.006+/-0.000 χ^2/NDF :2818220.6/52

Out: 0.006+/-0.000 χ^2/NDF :2966942.6/57

All: 0.006+/-0.000 χ^2/NDF : 5788504.5/110

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.204 $\pm$ 0.000 χ^2/NDF : 26581599160.8/29

Left Out: -0.542 $\pm$ 0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.244 $\pm$ 0.000 χ^2/NDF : 79142747548.4/32

Left In: -0.532 $\pm$ 0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2/NDF : 78028833870.1/47

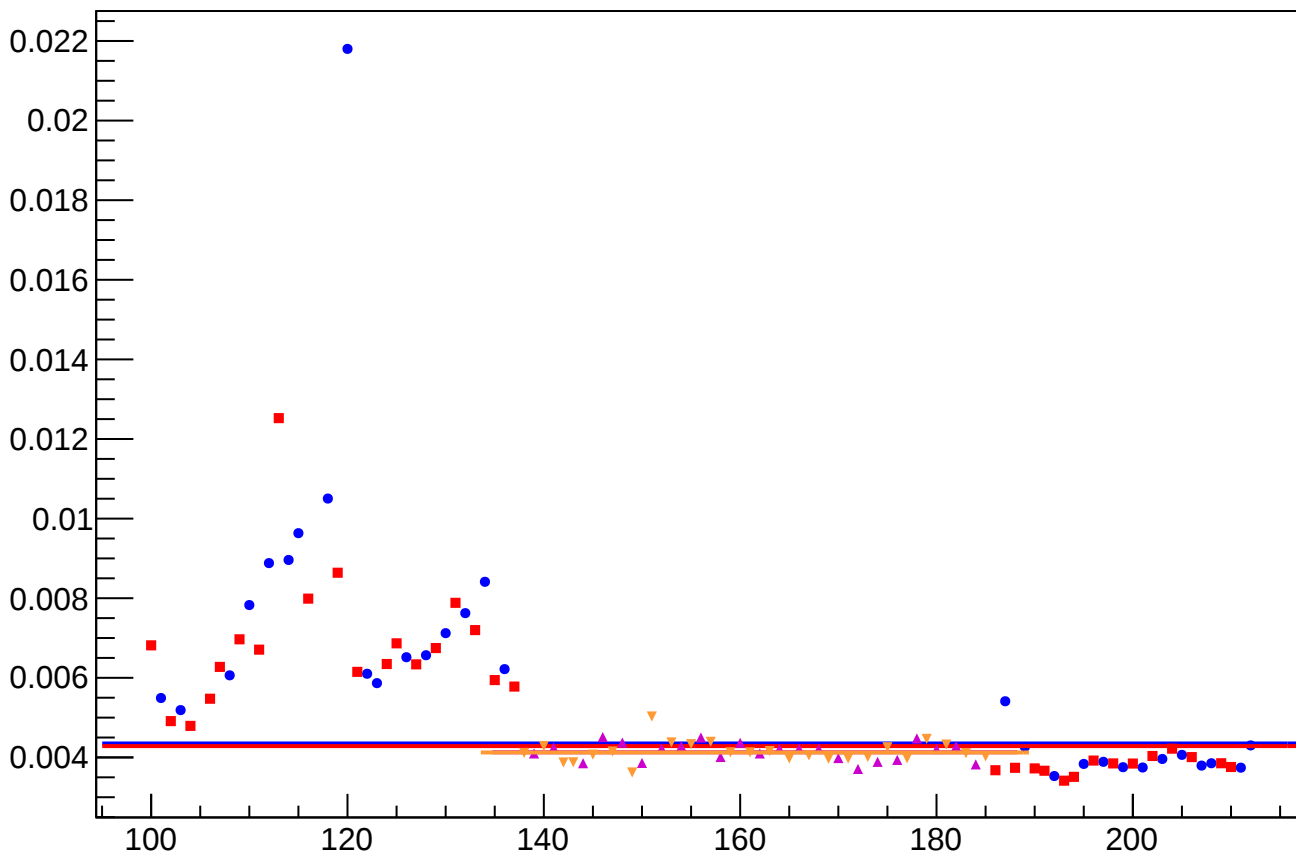
Right: -1.225 $\pm$ 0.000 χ^2/NDF : 106299656475.1/62

In: -0.819 $\pm$ 0.000 χ^2/NDF : 237856448950.6/52

Out: -0.844 $\pm$ 0.000 χ^2/NDF : 336722149097.9/57

All: -0.832 $\pm$ 0.000 χ^2/NDF : 575094059739.6

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2069665.2/29

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1889279.5/32

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

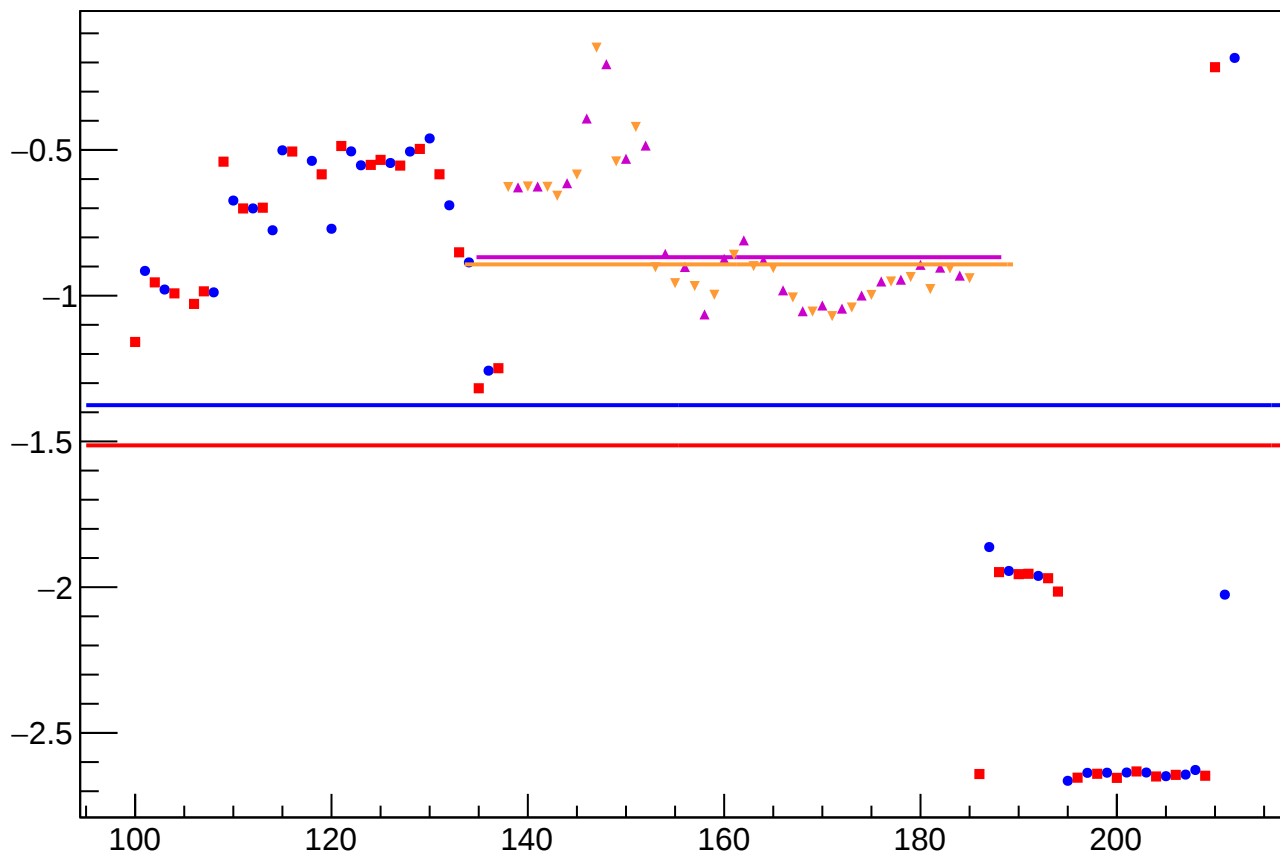
Right: 0.004+/-0.000 χ^2/NDF : 3962044.8/62

In: 0.004+/-0.000 χ^2/NDF :2201597.0/52

Out: 0.004+/-0.000 χ^2/NDF :2024174.3/57

All: 0.004+/-0.000 χ^2/NDF : 4227341.1/110

yield_bpm0i07X_mean vs Slug, Sign Corrected



Left: -0.880 $\pm$ 0.000 χ^2/NDF : 84980637247.0/47
 Right: -1.454 $\pm$ 0.000 χ^2/NDF : 900828447445.0/62

Right In: -1.376 $\pm$ 0.000 χ^2/NDF : 414750210012.2/29

Left Out: -0.893 $\pm$ 0.000 χ^2/NDF : 40787012603.8/24

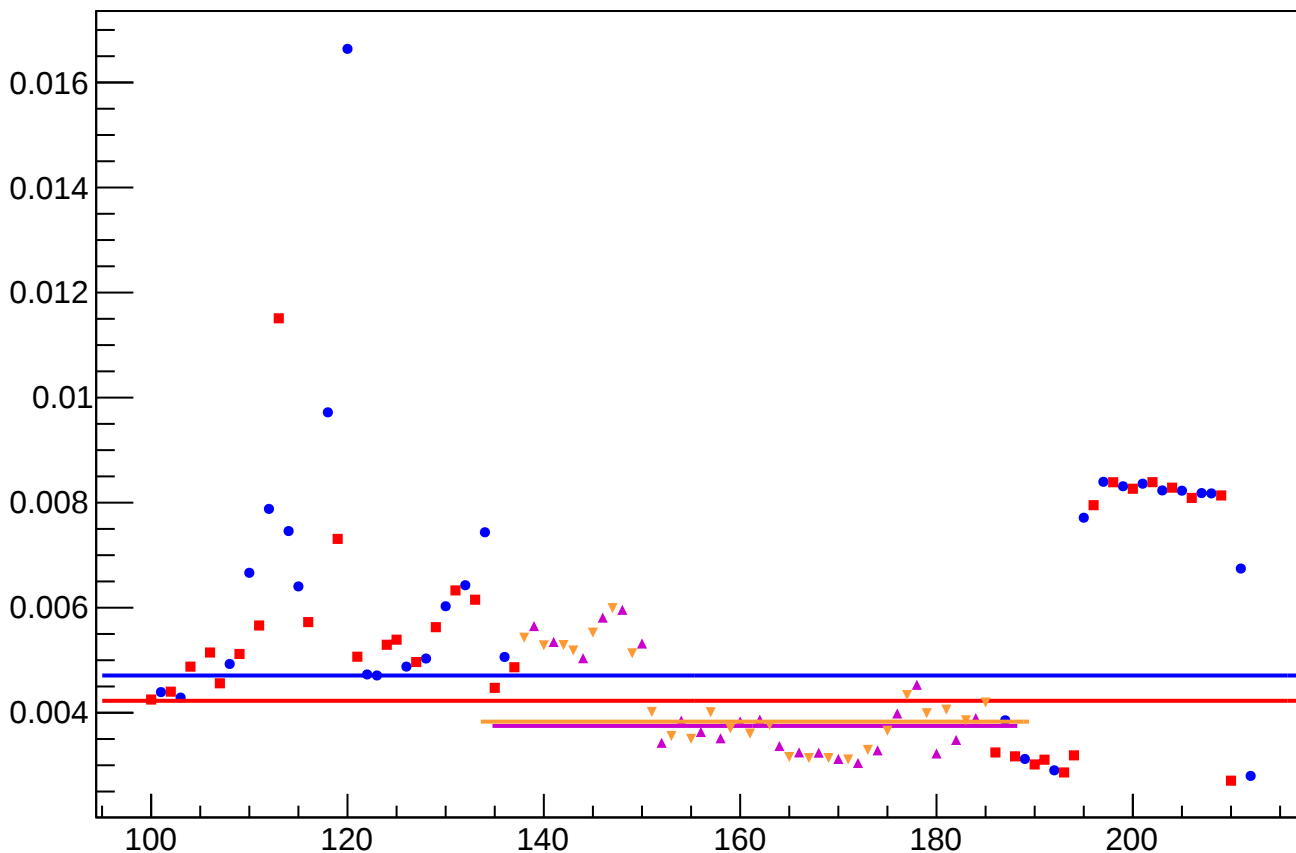
Right Out: -1.514 $\pm$ 0.000 χ^2/NDF : 480073095243.5/32

Left In: -0.868 $\pm$ 0.000 χ^2/NDF : 43853190177.2/22

In: -1.037 $\pm$ 0.000 χ^2/NDF : 554366286919.4/52
 Out: -1.136 $\pm$ 0.000 χ^2/NDF : 691240434065.6/57

All: -1.089 $\pm$ 0.000 χ^2/NDF : 1254294922348

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 4740182.9/29

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4547802.4/32

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

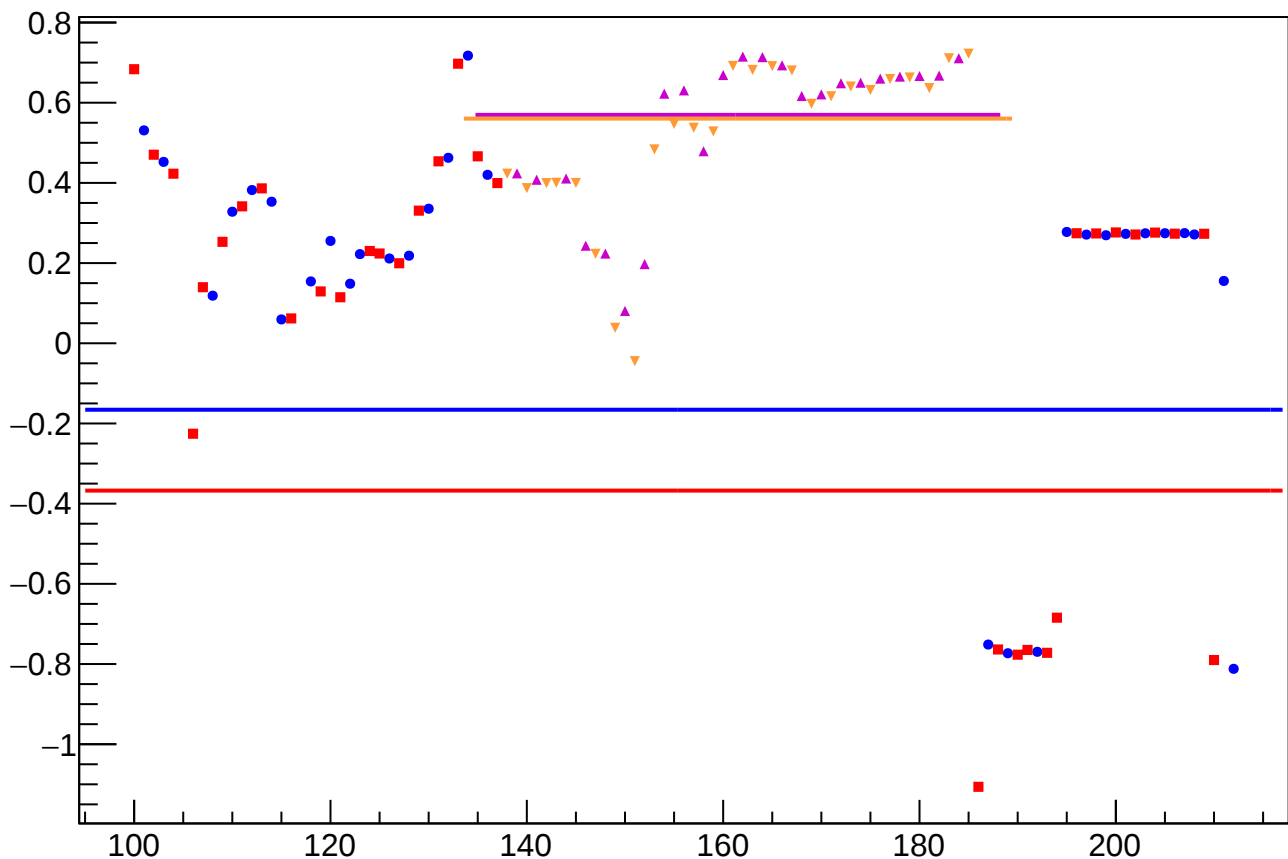
Right: 0.004+/-0.000 χ^2/NDF : 9434339.6/62

In: 0.004+/-0.000 χ^2/NDF :6713764.2/52

Out: 0.004+/-0.000 χ^2/NDF :5866675.8/57

All: 0.004+/-0.000 χ^2/NDF : 12592304.1/110

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.166+/-0.000 χ^2/NDF : 349883690794.5/29

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.367+/-0.000 χ^2/NDF : 489832162713.4/32

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

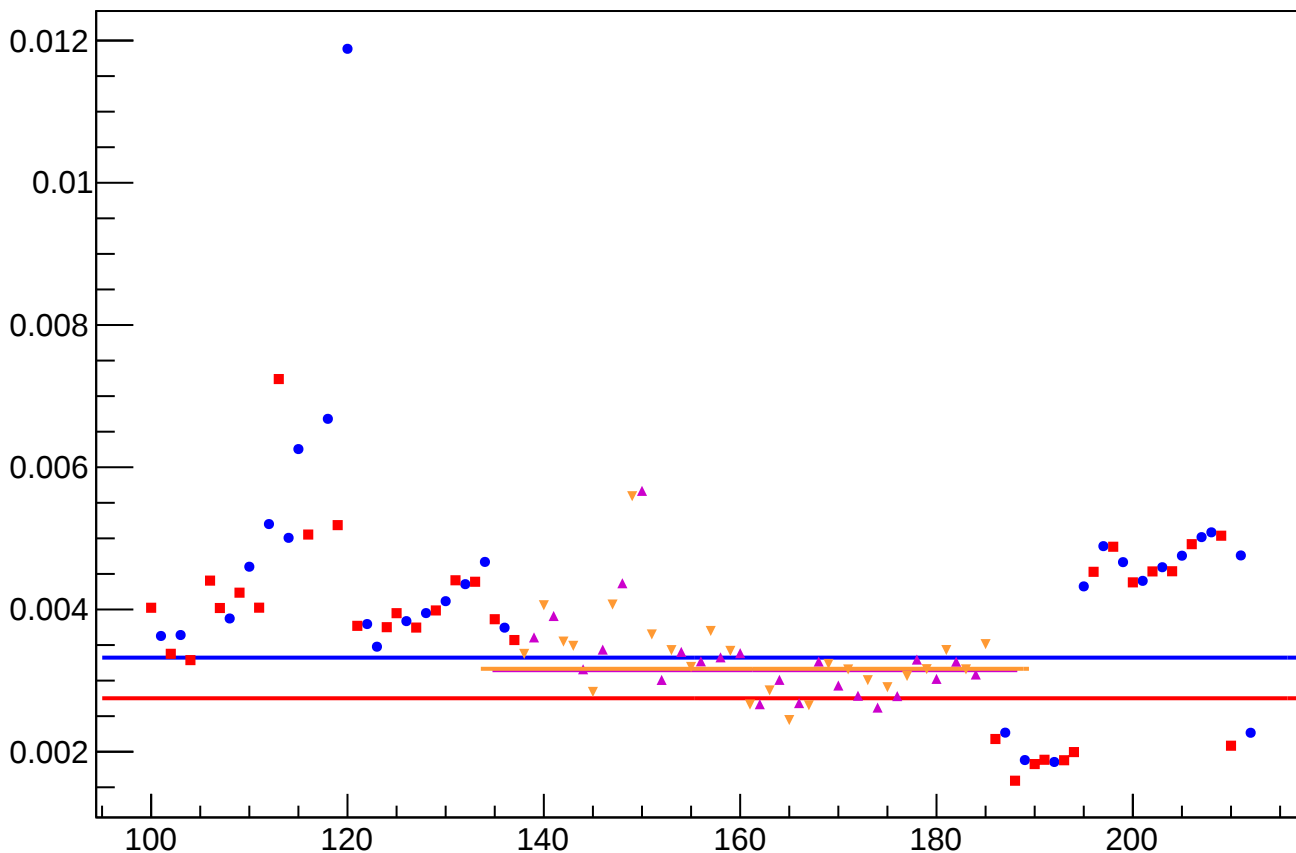
Right: -0.285+/-0.000 χ^2/NDF : 867702491319.1/62

In: 0.255+/-0.000 χ^2/NDF : 752963394185.2/52

Out: 0.089+/-0.000 χ^2/NDF : 1243364033122.0/57

All: 0.164+/-0.000 χ^2/NDF : 2037332225973.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3869126.2/29

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4927274.7/32

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

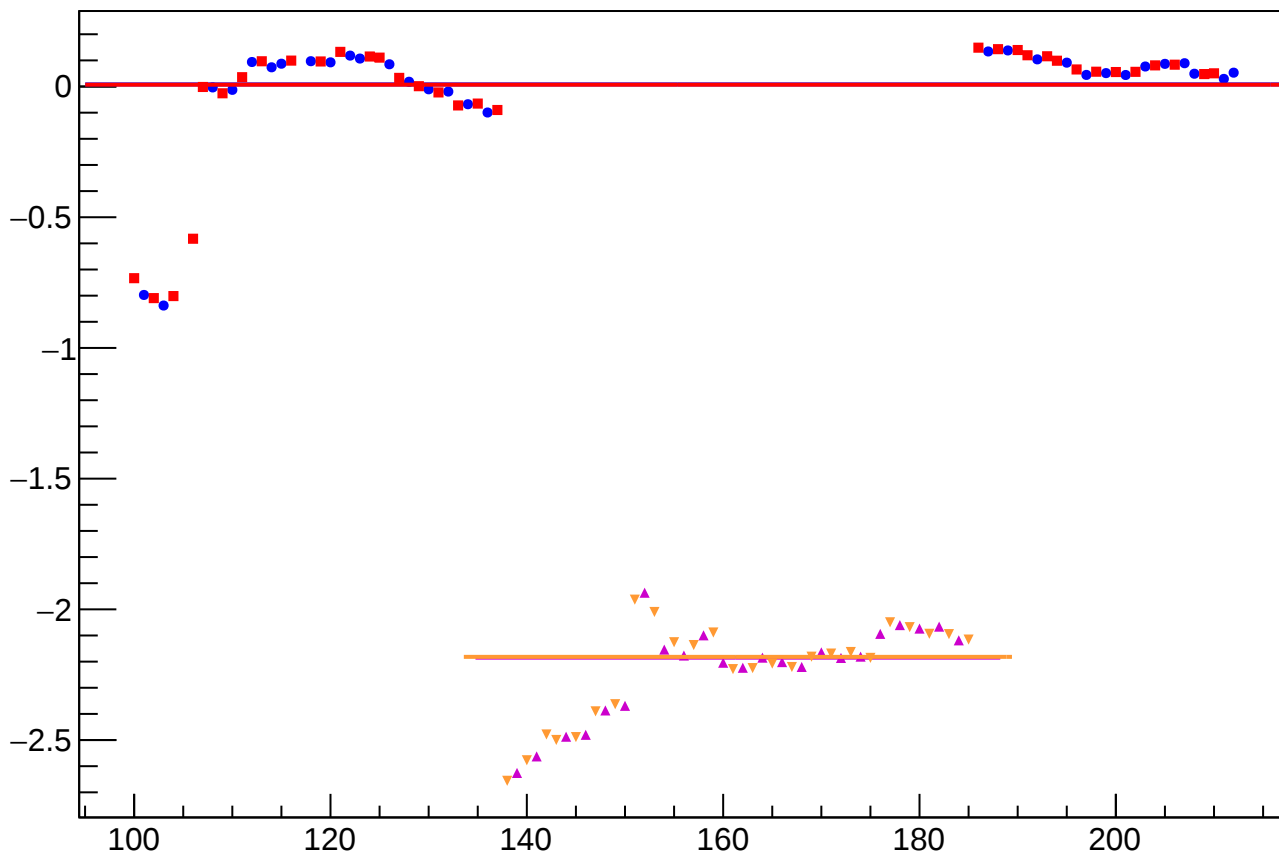
Right: 0.003+/-0.000 χ^2/NDF : 9245608.9/62

In: 0.003+/-0.000 χ^2/NDF : 4627213.7/52

Out: 0.003+/-0.000 χ^2/NDF : 5954816.2/57

All: 0.003+/-0.000 χ^2/NDF : 10794100.4/110

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 5909991468.2/29

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 6975675354.4/32

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

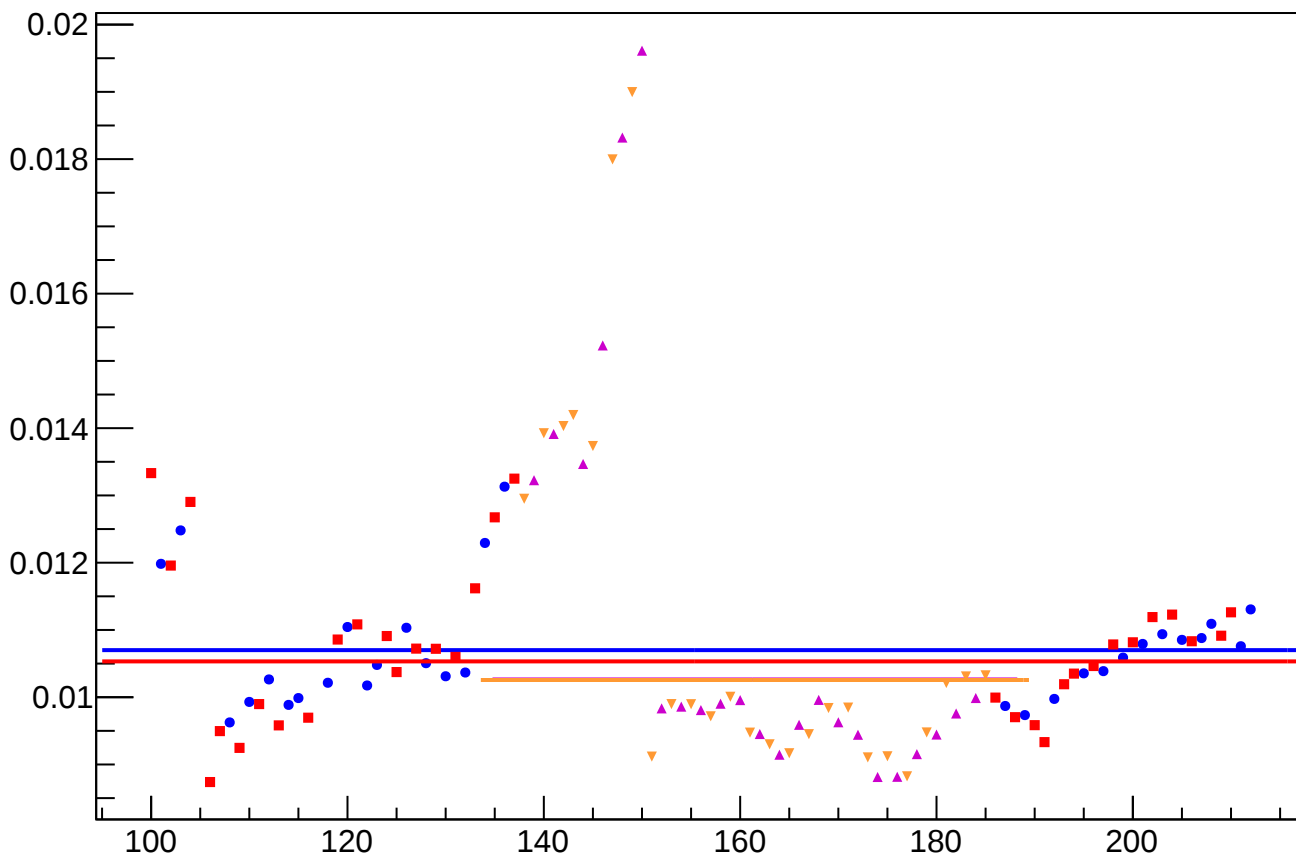
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 12885746347.9/62

In: -1.160 $\pm$ 0.000 χ^2 /NDF: 362840231024.8/52

Out: -1.158 $\pm$ 0.000 χ^2 /NDF: 386791901629.0/57

All: -1.159 $\pm$ 0.000 χ^2 /NDF: 749632798668.9

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 158335.1/29

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 231398.7/32

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

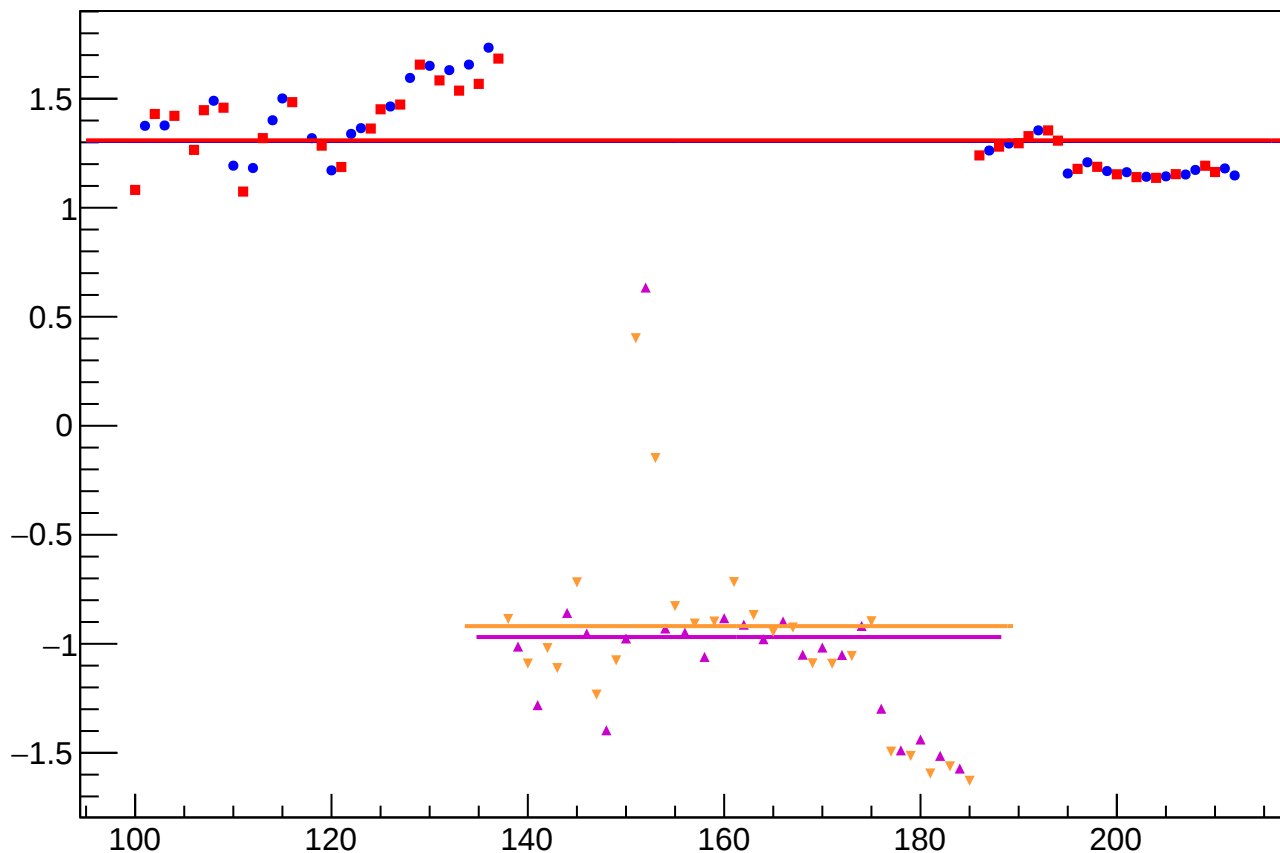
Right: 0.011+/-0.000 χ^2/NDF : 393733.2/62

In: 0.010+/-0.000 χ^2/NDF :1526514.3/52

Out: 0.010+/-0.000 χ^2/NDF :1514013.8/57

All: 0.010+/-0.000 χ^2/NDF : 3042608.1/110

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.306+/-0.000

χ^2/NDF : 8105255820.6/29

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.308+/-0.000

χ^2/NDF : 14309045075.7/62

Right Out: 1.309+/-0.000

χ^2/NDF : 6202418428.2/32

In: 0.231+/-0.000

χ^2/NDF : 716777189547.4/52

Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

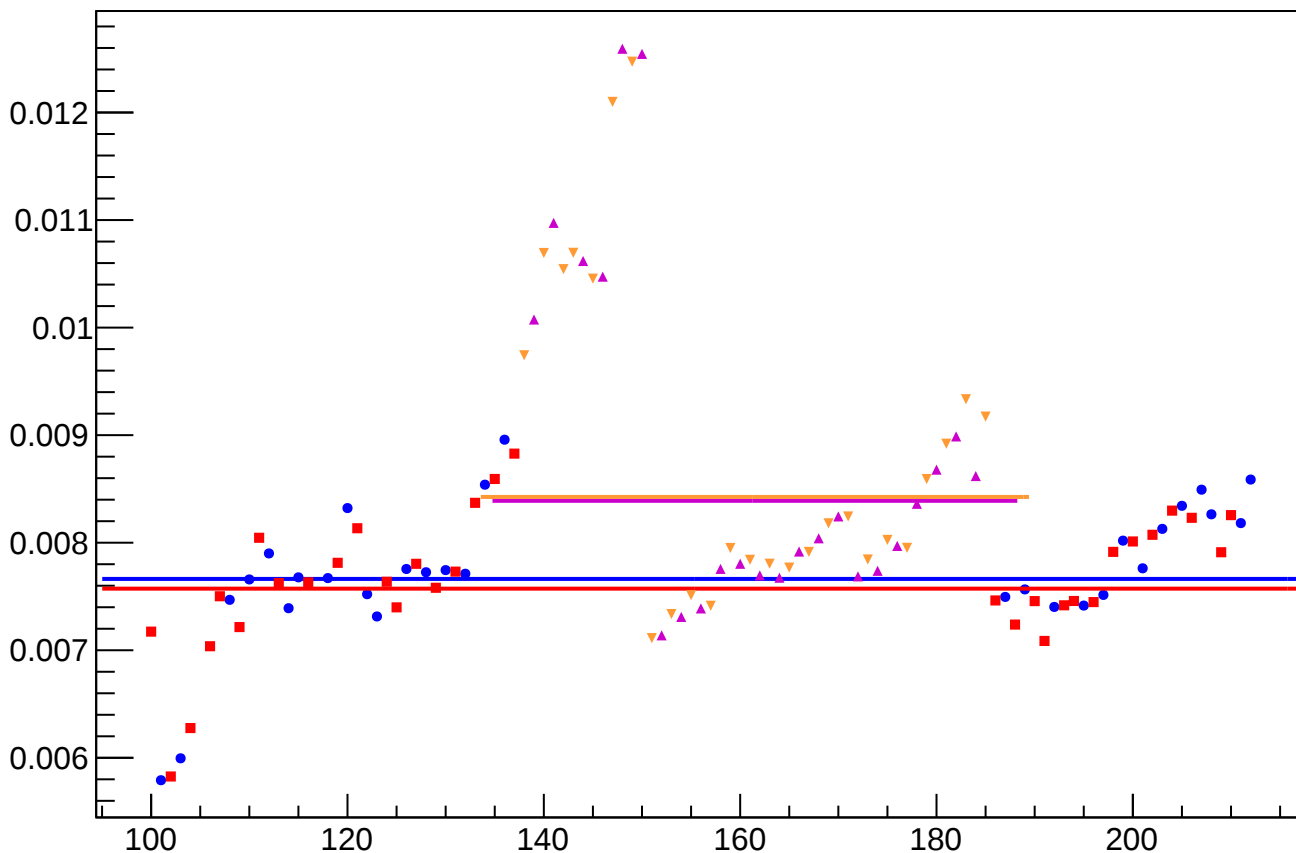
Out: 0.264+/-0.000

χ^2/NDF : 726187480152.5/57

All: 0.248+/-0.000

χ^2/NDF : 1443242423782.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 322568.4/29

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 237834.0/32

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

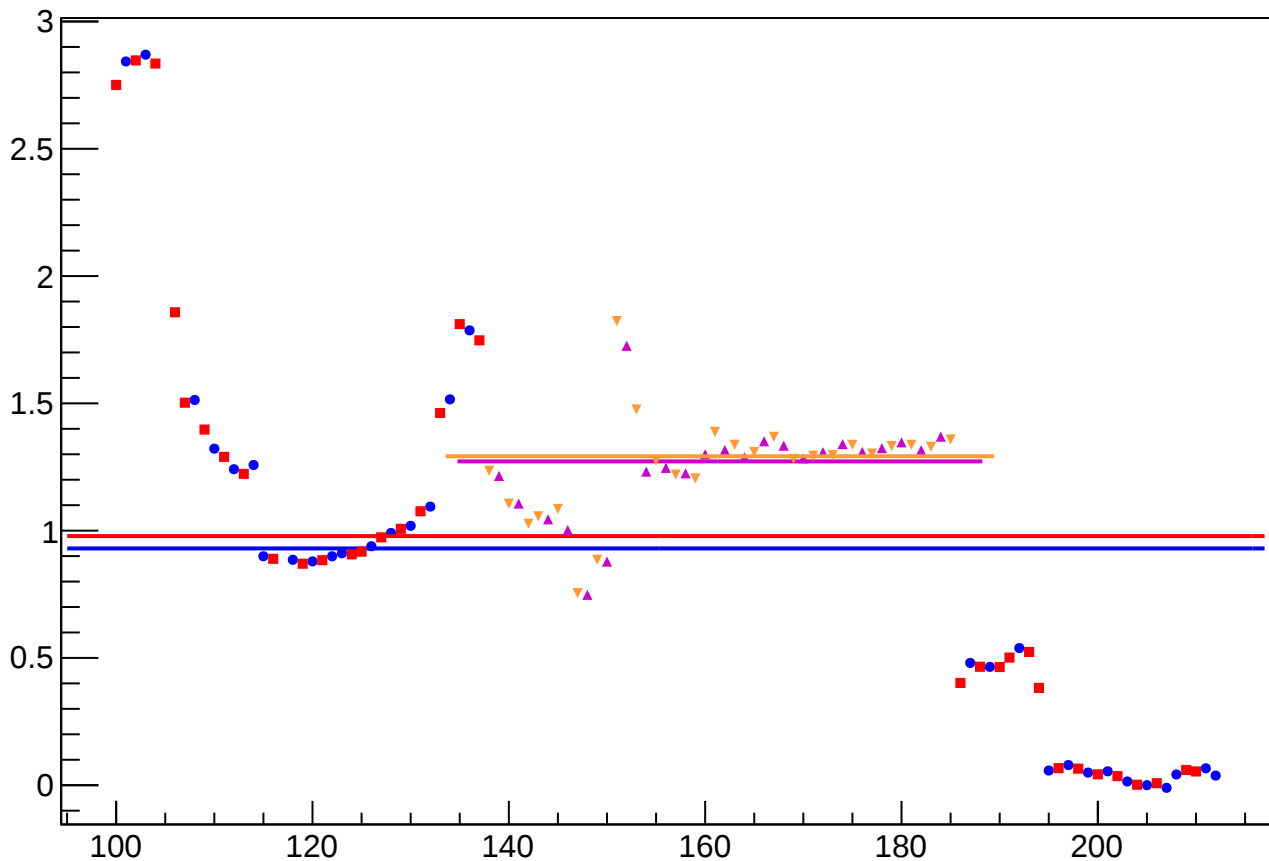
Right: 0.008+/-0.000 χ^2/NDF : 562659.7/62

In: 0.008+/-0.000 χ^2/NDF : 1295695.0/52

Out: 0.008+/-0.000 χ^2/NDF : 1224787.2/57

All: 0.008+/-0.000 χ^2/NDF : 2521067.0/110

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.930 ± 0.000 $\chi^2/\text{NDF}: 135522228841.1/29$

Left Out: 1.292 ± 0.000 $\chi^2/\text{NDF}: 9305298695.5/24$

Right Out: 0.979 ± 0.000 $\chi^2/\text{NDF}: 128295843395.3/32$

Left In: 1.272 ± 0.000 $\chi^2/\text{NDF}: 7573930981.2/22$

Left: 1.282 ± 0.000 $\chi^2/\text{NDF}: 16930321584.4/47$

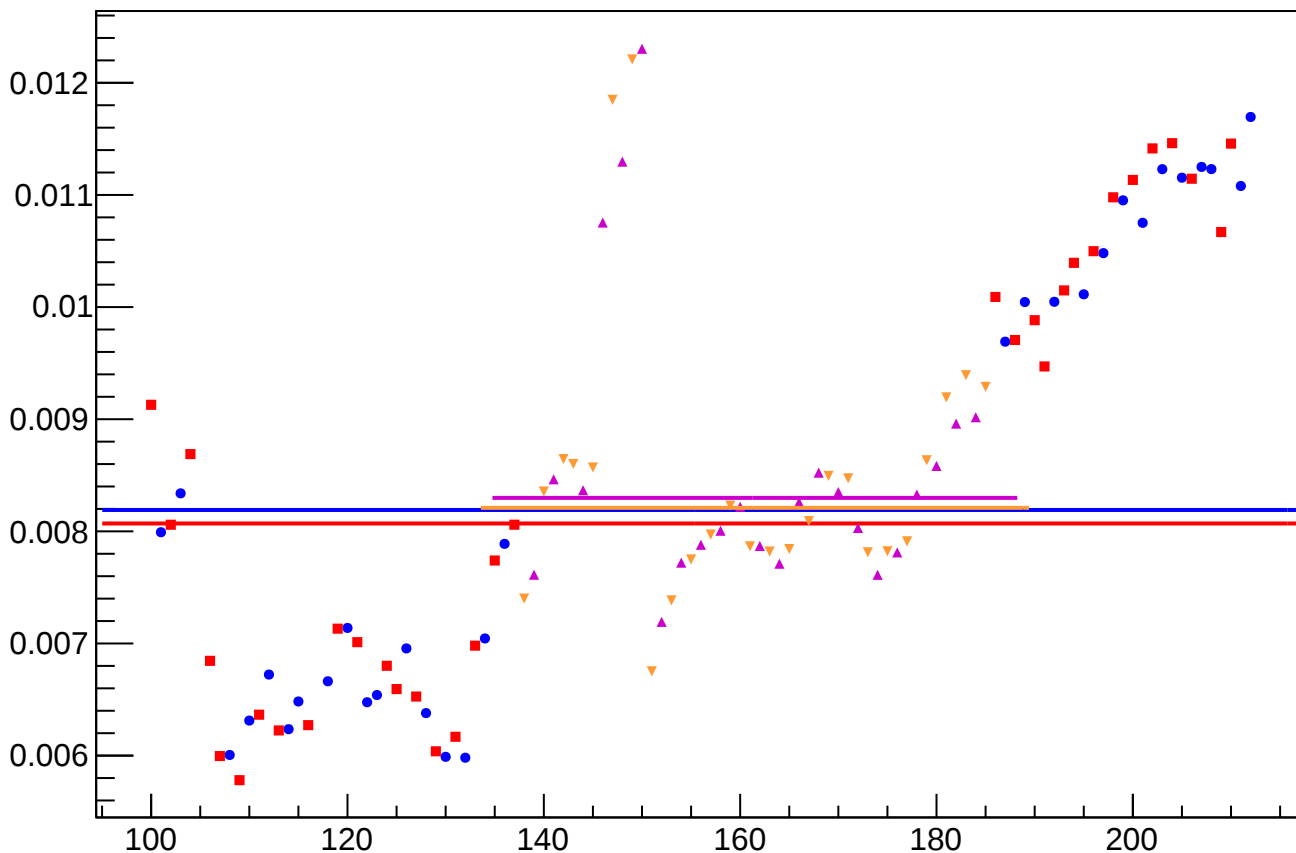
Right: 0.955 ± 0.000 $\chi^2/\text{NDF}: 264088380239.9/62$

In: 1.109 ± 0.000 $\chi^2/\text{NDF}: 156704179870.4/52$

Out: 1.143 ± 0.000 $\chi^2/\text{NDF}: 149891048561.9/57$

All: 1.126 ± 0.000 $\chi^2/\text{NDF}: 306881635857.9$

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1839720.6/29

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1908387.3/32

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

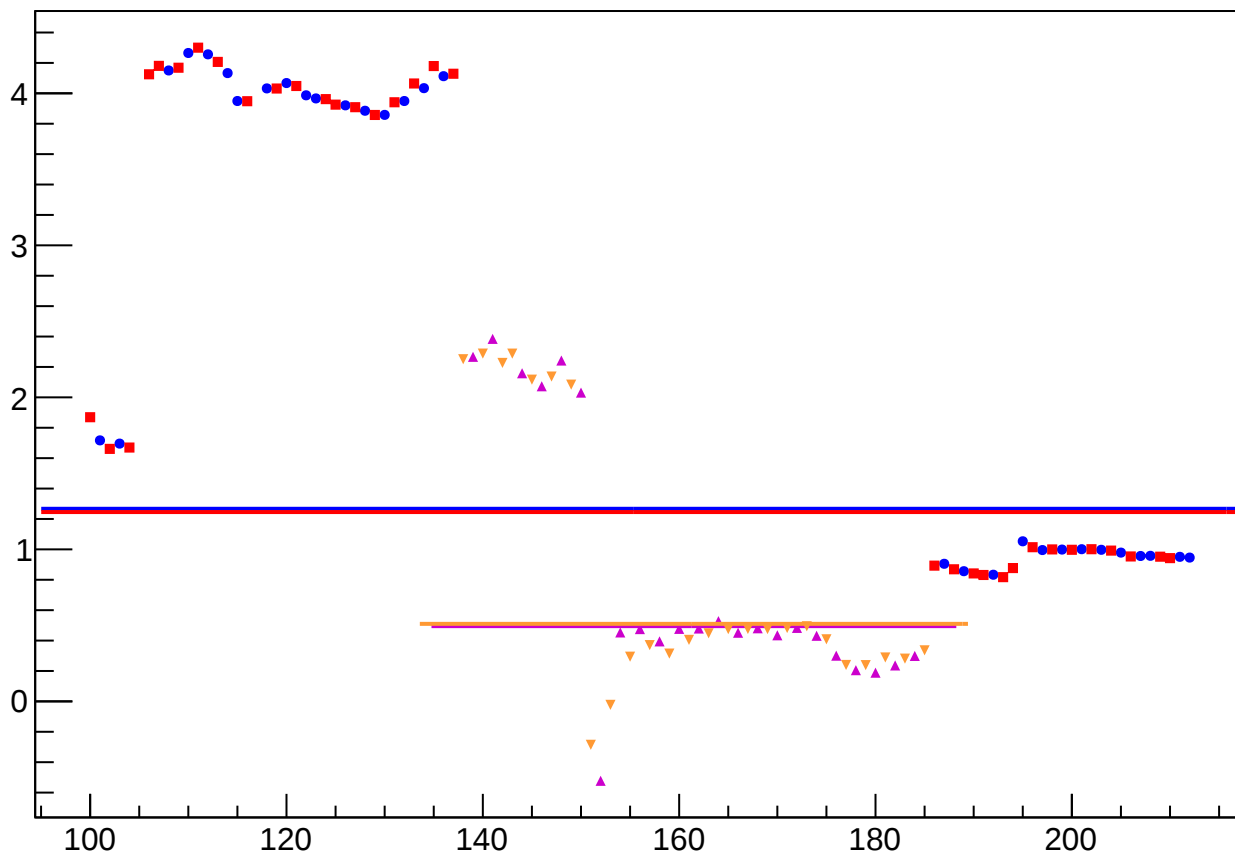
Right: 0.008+/-0.000 χ^2/NDF : 3751460.0/62

In: 0.008+/-0.000 χ^2/NDF : 2304440.1/52

Out: 0.008+/-0.000 χ^2/NDF : 2392117.5/57

All: 0.008+/-0.000 χ^2/NDF : 4701746.7/110

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.267 $\pm$ 0.000 χ^2 /NDF: 1516939505329.9/29

Left Out: 0.510 $\pm$ 0.000 χ^2 /NDF: 274818814912.4/24

Right Out: 1.245 $\pm$ 0.000 χ^2 /NDF: 1707486071787.1/32

Left In: 0.495 $\pm$ 0.000 χ^2 /NDF: 268863202792.4/22

Left: 0.503 $\pm$ 0.000 χ^2 /NDF: 543767842878.3/47

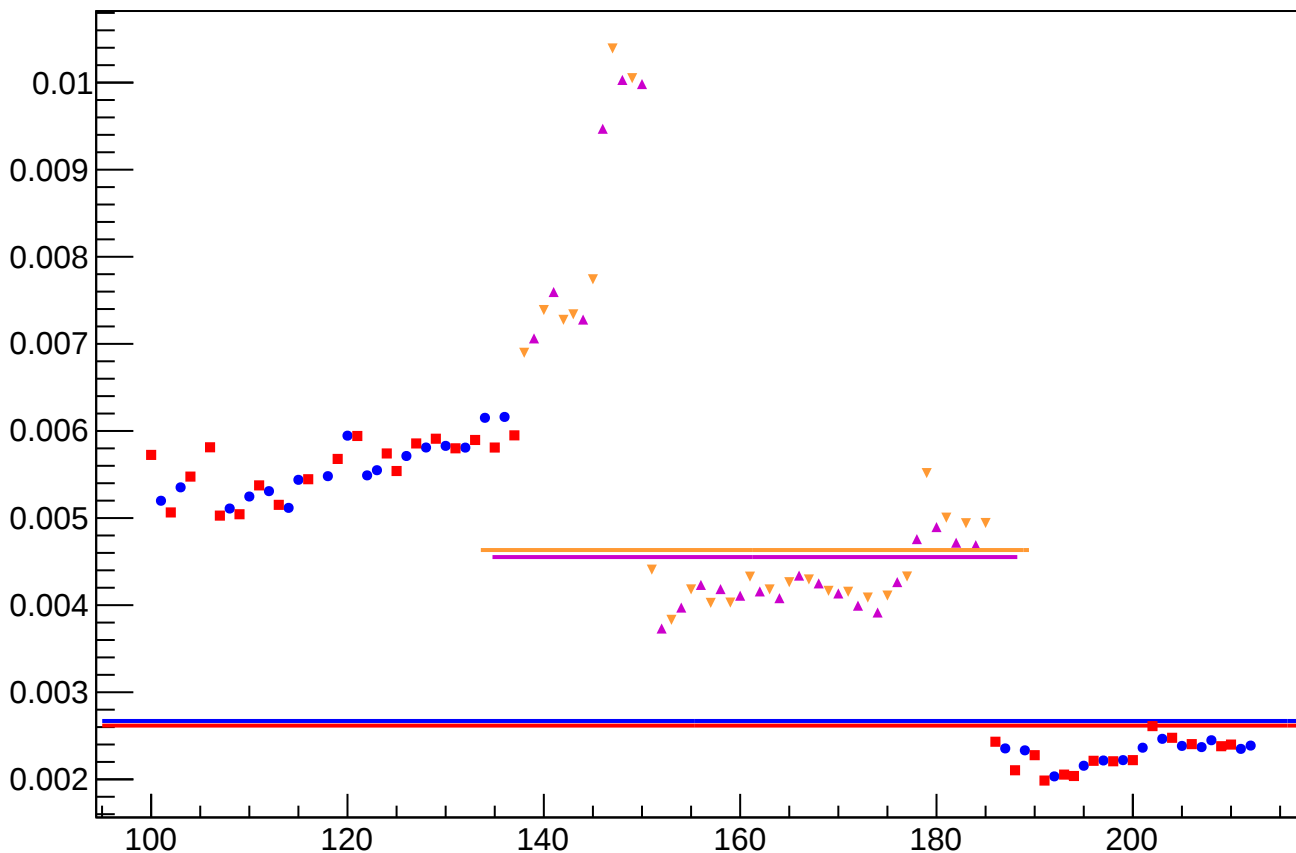
Right: 1.256 $\pm$ 0.000 χ^2 /NDF: 3224866268265.2/62

In: 1.043 $\pm$ 0.000 χ^2 /NDF: 2106101125162.2/52

Out: 1.038 $\pm$ 0.000 χ^2 /NDF: 2283940276401.6/57

All: 1.040 $\pm$ 0.000 χ^2 /NDF: 4390068433156.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4183620.8/29

Left Out: 0.005+/-0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4466076.6/32

Left In: 0.005+/-0.000 χ^2/NDF : 2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

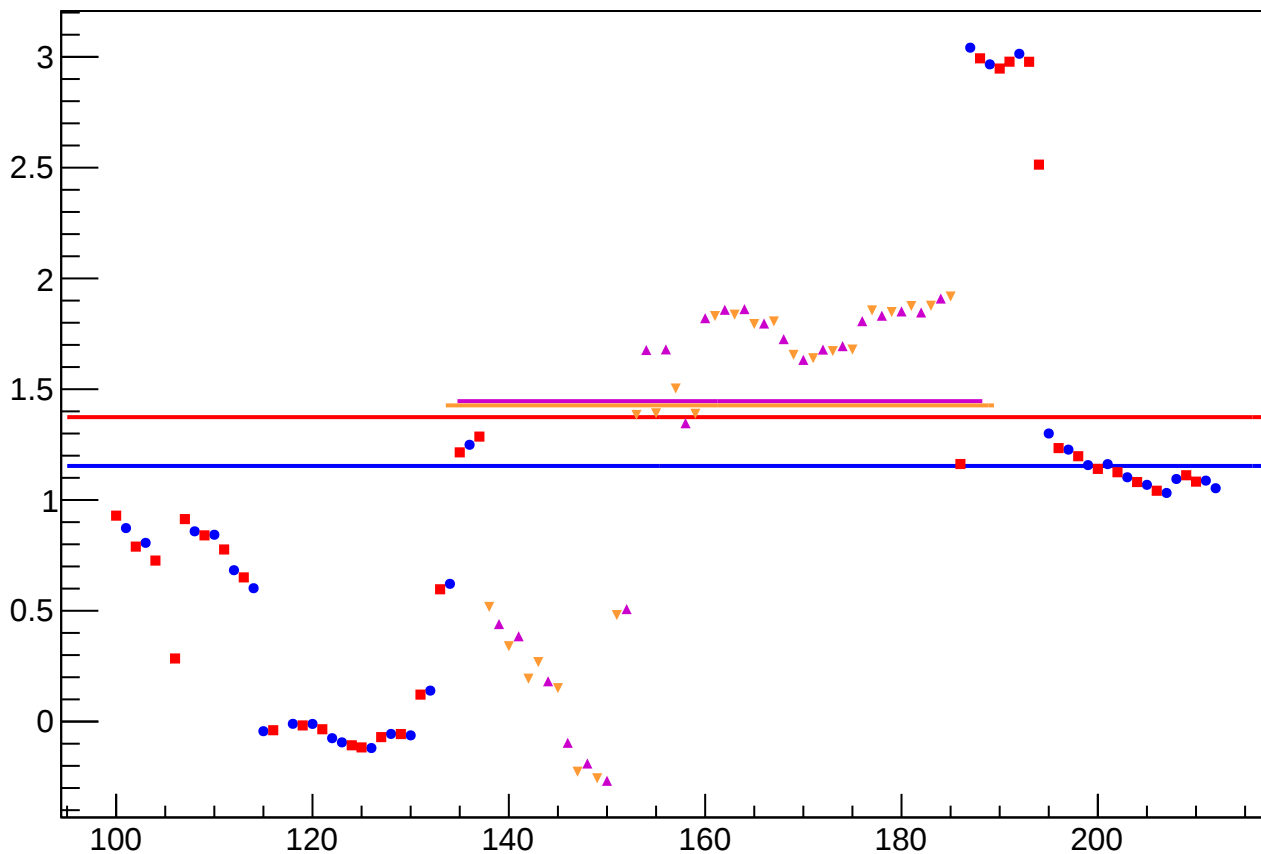
Right: 0.003+/-0.000 χ^2/NDF : 8655055.1/62

In: 0.003+/-0.000 χ^2/NDF : 10228941.6/52

Out: 0.003+/-0.000 χ^2/NDF : 11111281.8/57

All: 0.003+/-0.000 χ^2/NDF : 21342896.2/110

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.154+/-0.000 χ^2/NDF : 72861504139.5/29

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.374+/-0.000 χ^2/NDF : 100838454509.0/32

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

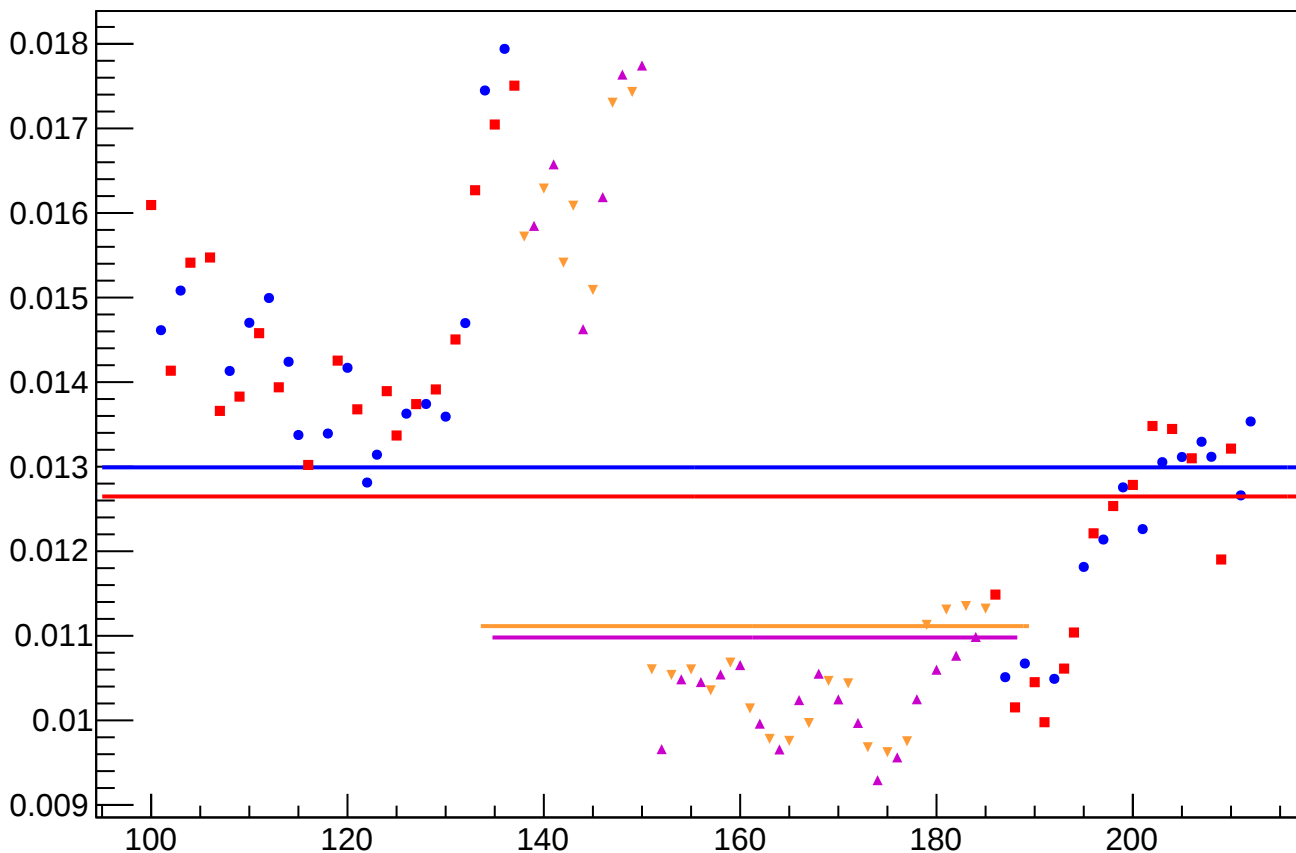
Right: 1.268+/-0.000 χ^2/NDF : 176030060697.0/62

In: 1.329+/-0.000 χ^2/NDF : 131335750064.0/52

Out: 1.405+/-0.000 χ^2/NDF : 150994413521.6/57

All: 1.368+/-0.000 χ^2/NDF : 283020003413.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 439580.5/29

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 568714.1/32

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

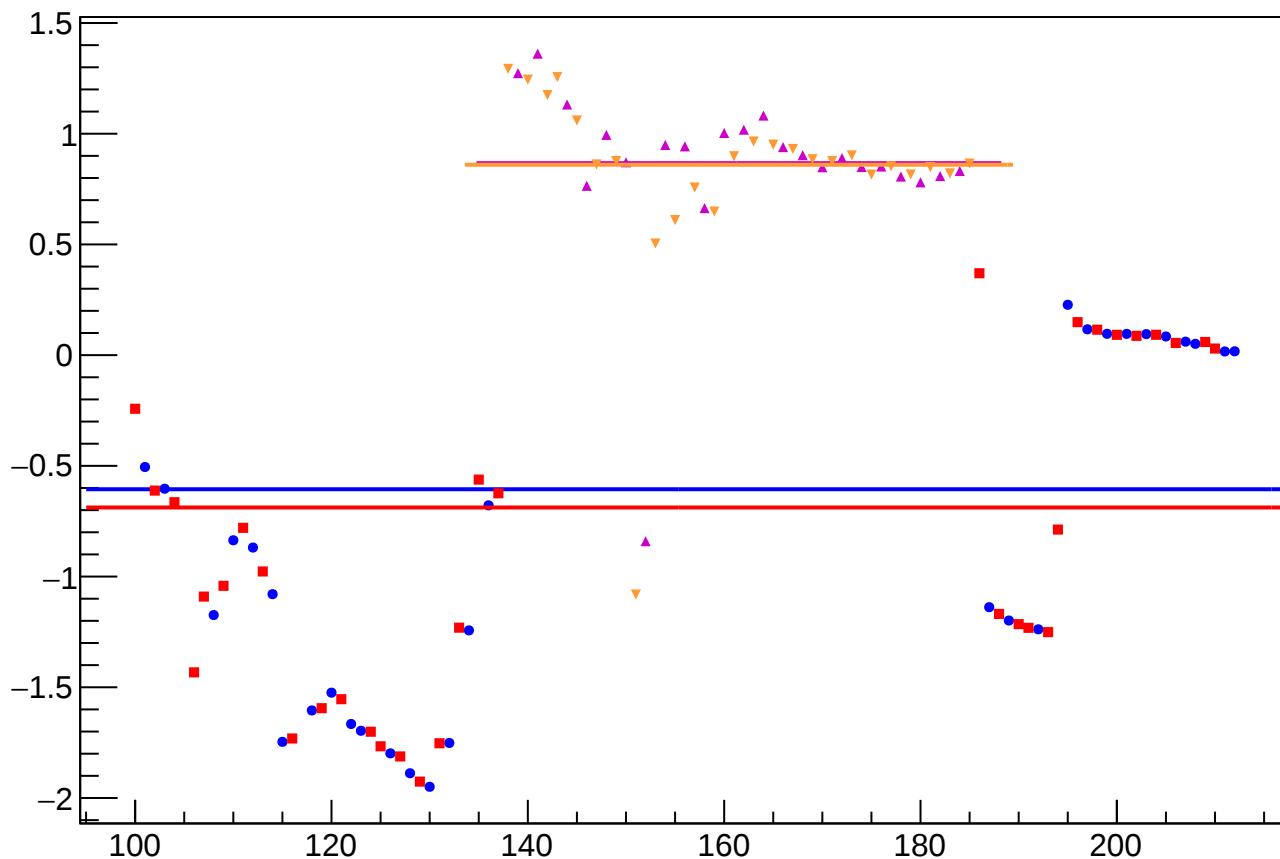
Right: 0.013+/-0.000 χ^2/NDF : 1019681.4/62

In: 0.012+/-0.000 χ^2/NDF :2151231.3/52

Out: 0.012+/-0.000 χ^2/NDF :2072250.0/57

All: 0.012+/-0.000 χ^2/NDF : 4223874.2/110

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Left: 0.863±/-0.000 χ^2/NDF : 273407894621.9/47

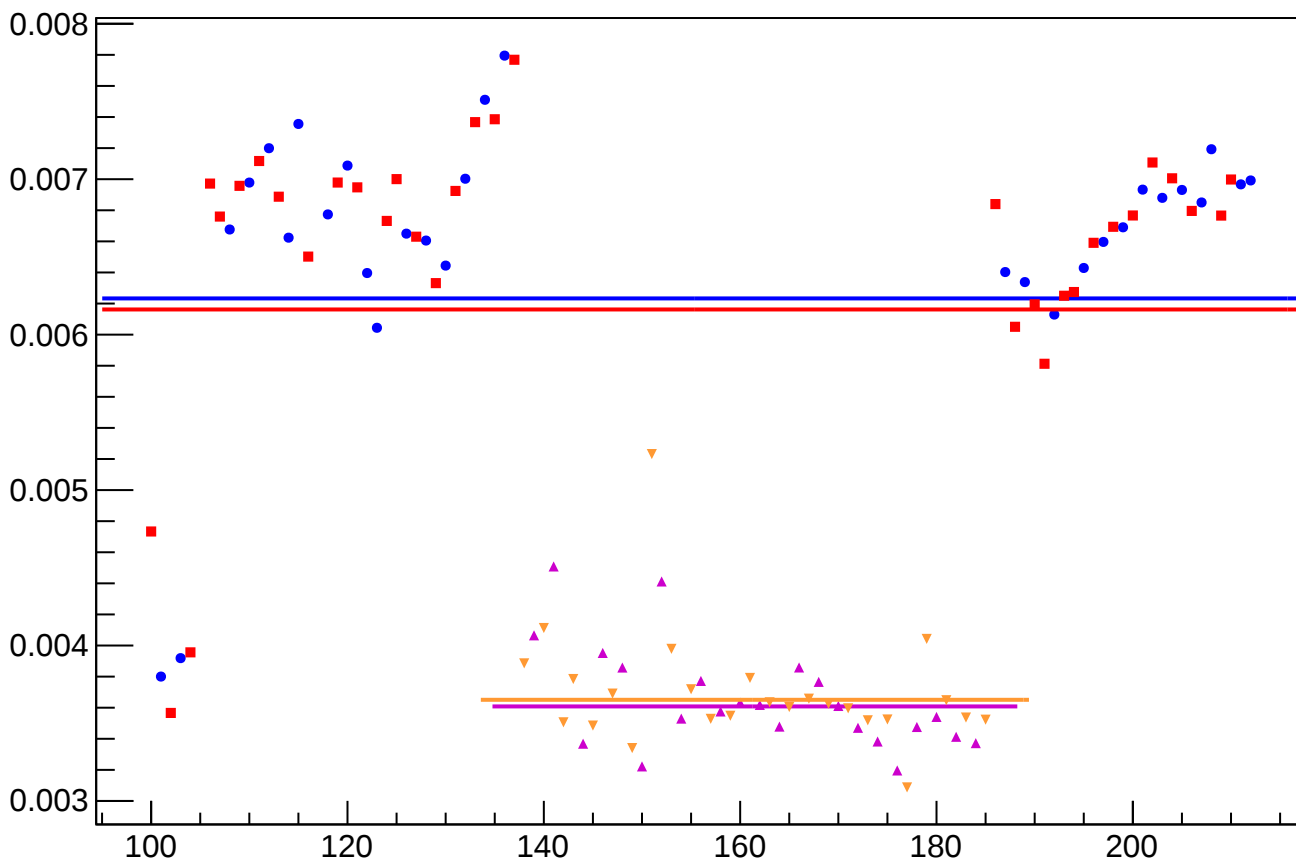
Right: -0.648±/-0.000 χ^2/NDF : 365296029136.5/62

In: 0.515±/-0.000 χ^2/NDF : 962651290383.1/52

Out: 0.486±/-0.000 χ^2/NDF : 1026086473879.2/57

All: 0.500±/-0.000 χ^2/NDF : 1989460135731.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1060015.8/29

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1121781.4/32

Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

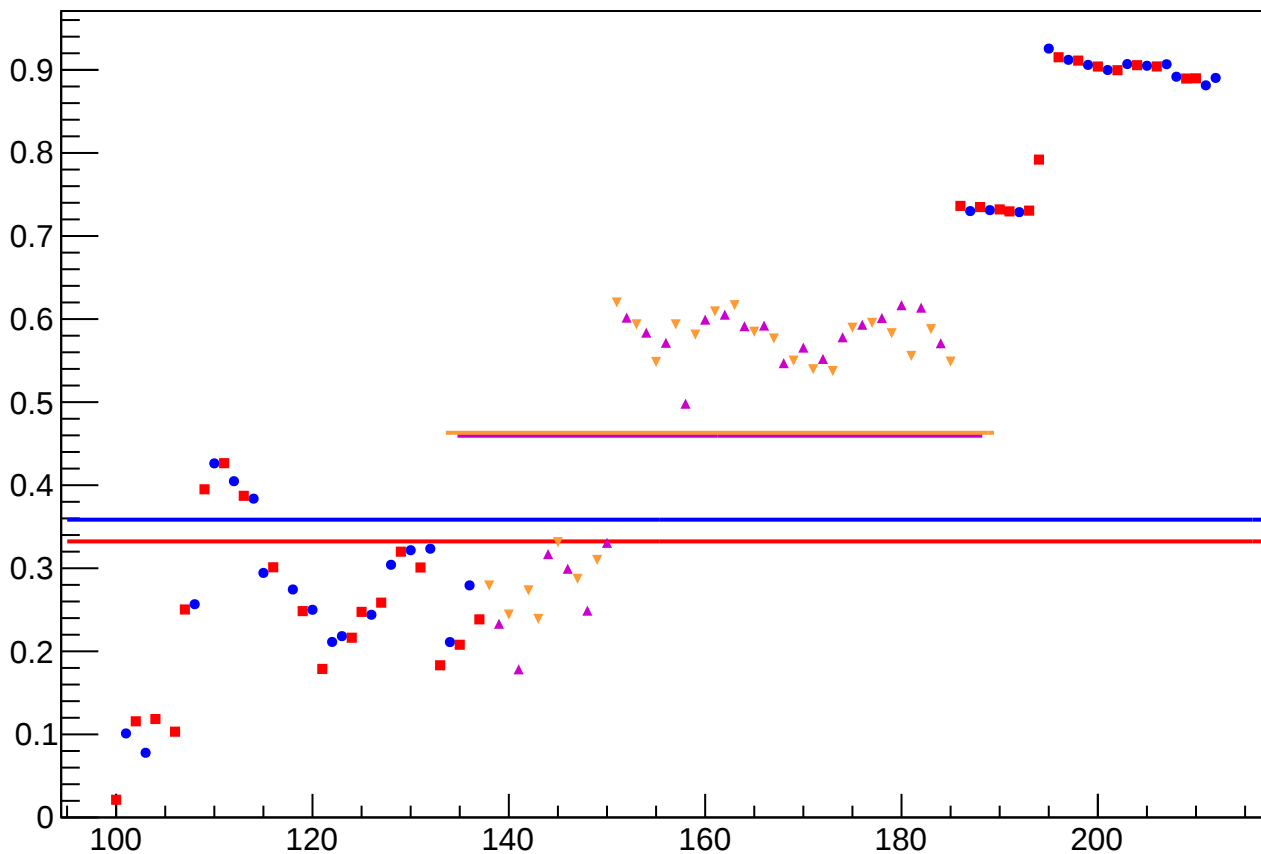
Right: 0.006+/-0.000 χ^2/NDF : 2183759.6/62

In: 0.004+/-0.000 χ^2/NDF : 5259666.3/52

Out: 0.004+/-0.000 χ^2/NDF : 5181337.5/57

All: 0.004+/-0.000 χ^2/NDF : 10441865.5/110

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.358+/-0.000 χ^2/NDF : 177778204807.2/29

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.332+/-0.000 χ^2/NDF : 184040582531.7/32

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

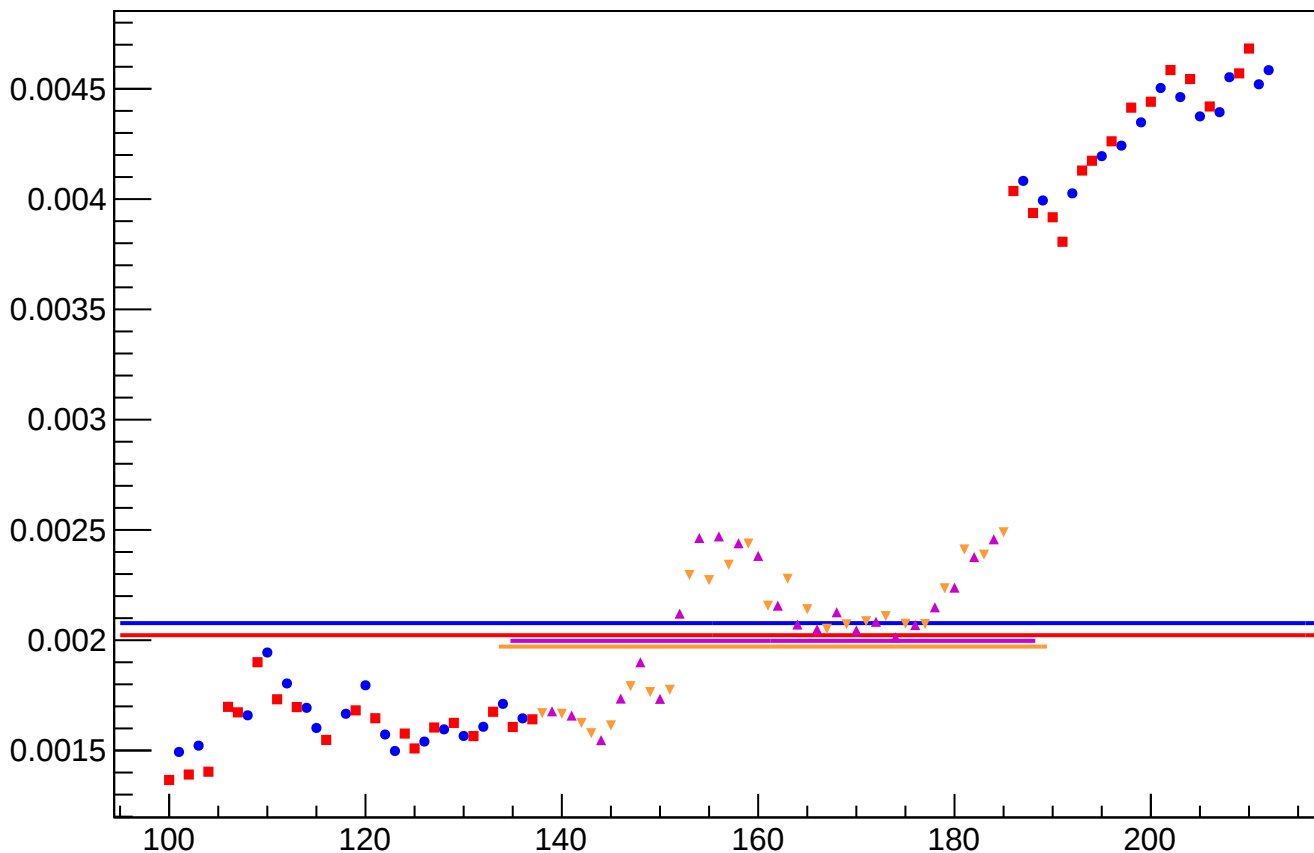
Right: 0.345+/-0.000 χ^2/NDF : 362867670855.0/62

In: 0.418+/-0.000 χ^2/NDF : 299956096222.5/52

Out: 0.409+/-0.000 χ^2/NDF : 318975523114.8/57

All: 0.413+/-0.000 χ^2/NDF : 619224942927.8

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 6066827.7/29

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:730203.8/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 6359146.9/32

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:666404.2/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 1399578.1/47

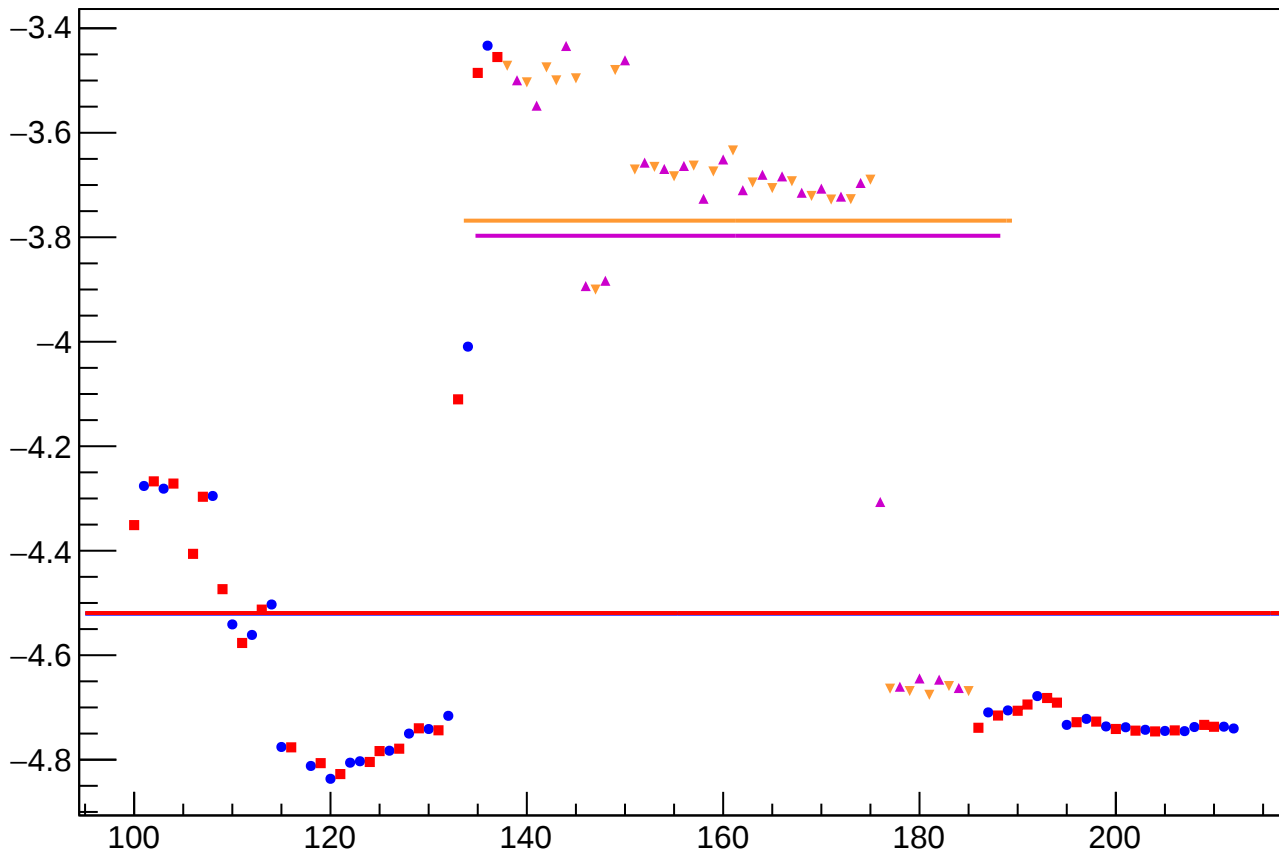
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 12435191.5/62

In: 0.002 $\pm$ 0.000 χ^2 /NDF:6755547.5/52

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:7099446.0/57

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 13865607.7/110

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.520+/-0.000

χ^2/NDF : 441858139018.6/29

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right Out: -4.519+/-0.000

χ^2/NDF : 376210196154.1/32

Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Right: -4.520+/-0.000

χ^2/NDF : 818070416171.0/62

In: -4.116+/-0.000

χ^2/NDF : 1704891465584.5/52

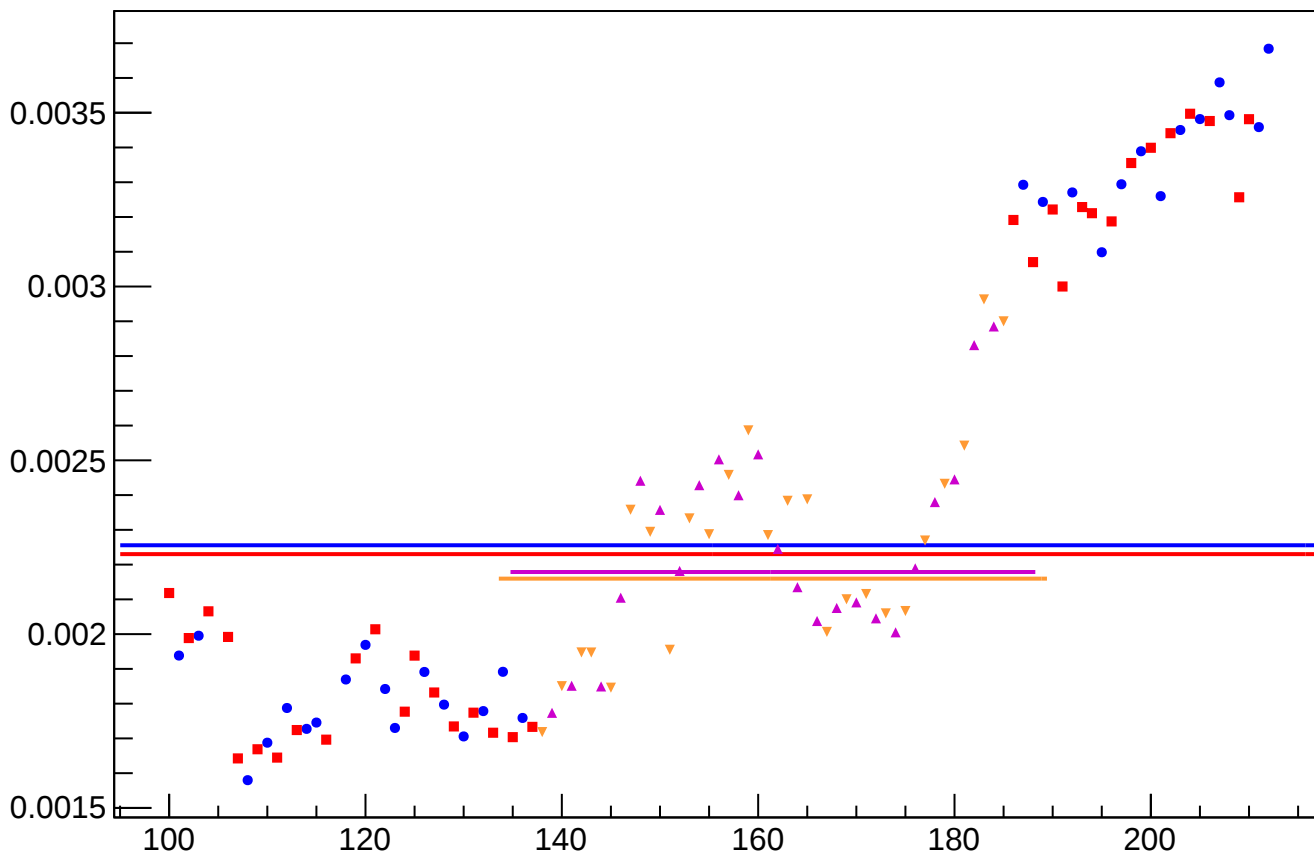
Out: -4.098+/-0.000

χ^2/NDF : 1837775240342.7/57

All: -4.107+/-0.000

χ^2/NDF : 3543686022954

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2920150.1/29

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2862095.8/32

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

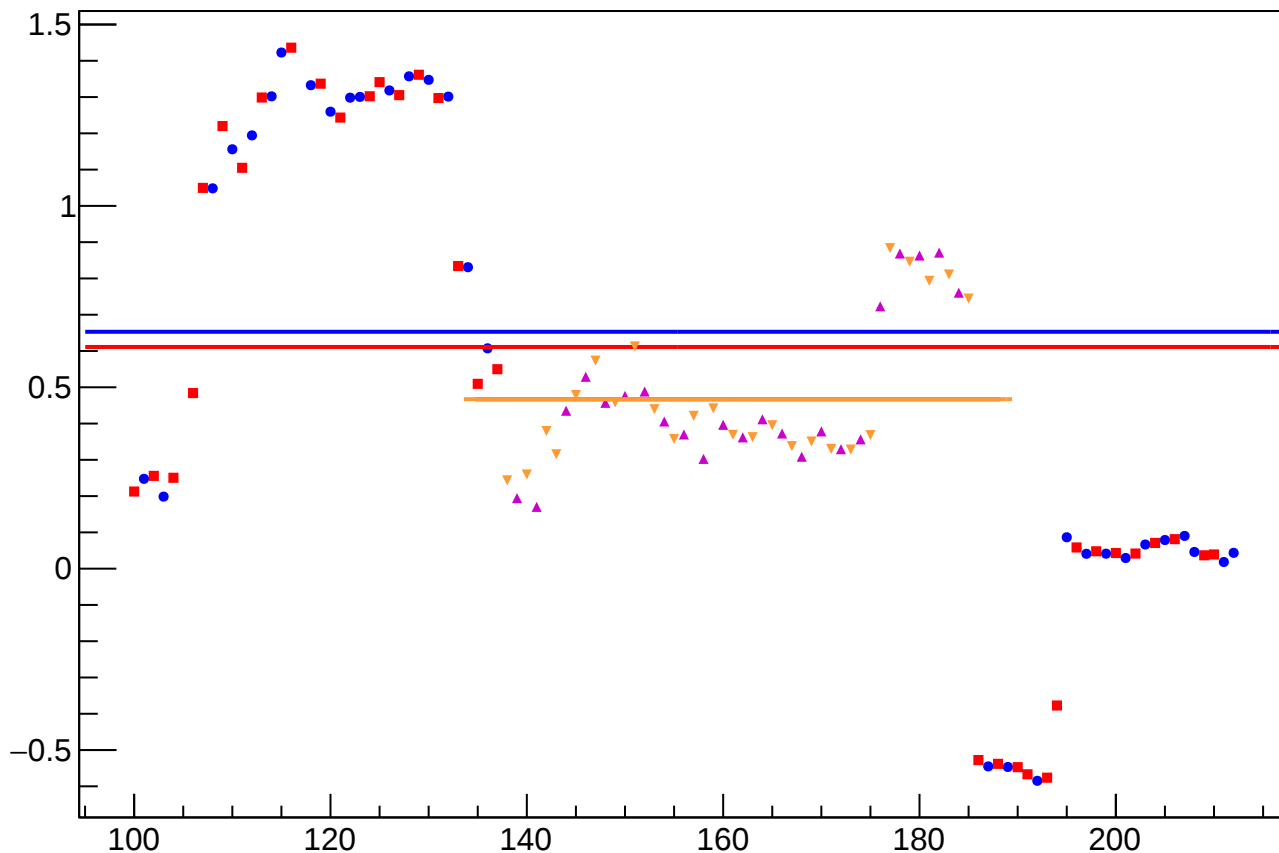
Right: 0.002+/-0.000 χ^2/NDF : 5784125.8/62

In: 0.002+/-0.000 χ^2/NDF :3401952.1/52

Out: 0.002+/-0.000 χ^2/NDF :3426587.6/57

All: 0.002+/-0.000 χ^2/NDF : 6831716.5/110

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.653+/-0.000 χ^2/NDF : 81544949325.6/29

Left Out: 0.467+/-0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.611+/-0.000 χ^2/NDF : 99278379606.8/32

Left In: 0.467+/-0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

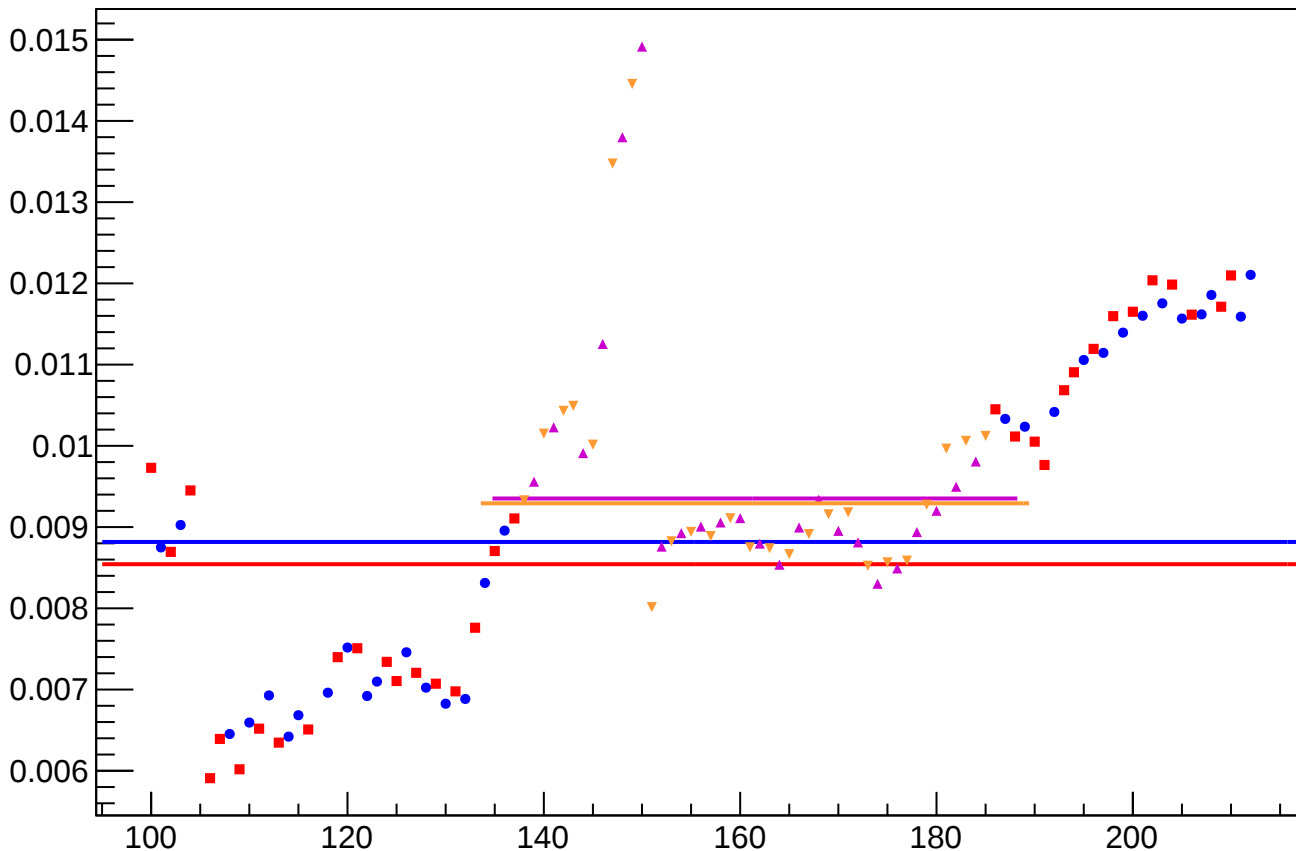
Right: 0.631+/-0.000 χ^2/NDF : 181000856324.1/62

In: 0.560+/-0.000 χ^2/NDF : 92943466838.3/52

Out: 0.540+/-0.000 χ^2/NDF : 108820454778.8/57

All: 0.549+/-0.000 χ^2/NDF : 201844737183.8

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1639447.7/29

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 1921717.0/32

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

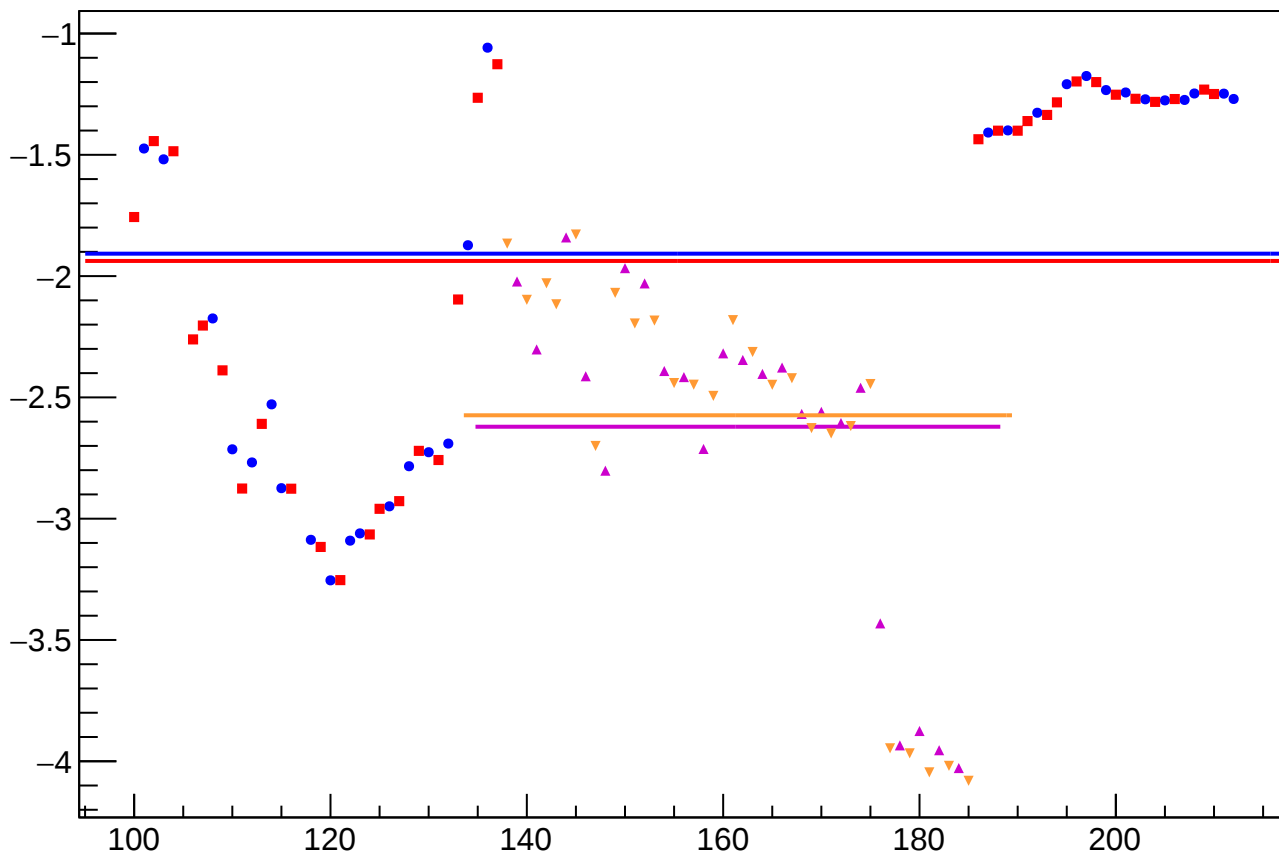
Right: 0.009+/-0.000 χ^2/NDF : 3576381.9/62

In: 0.009+/-0.000 χ^2/NDF :2252539.7/52

Out: 0.009+/-0.000 χ^2/NDF :2568480.8/57

All: 0.009+/-0.000 χ^2/NDF : 4832714.5/110

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Left: -2.597+/-0.000 χ^2 /NDF: 180296288698.4/47
 Right: -1.923+/-0.000 χ^2 /NDF: 260722539809.3/62
 In: -2.259+/-0.000 χ^2 /NDF: 271077529728.5/52
 Out: -2.251+/-0.000 χ^2 /NDF: 276716672563.8/57
 All: -2.255+/-0.000 χ^2 /NDF: 547809923772.4

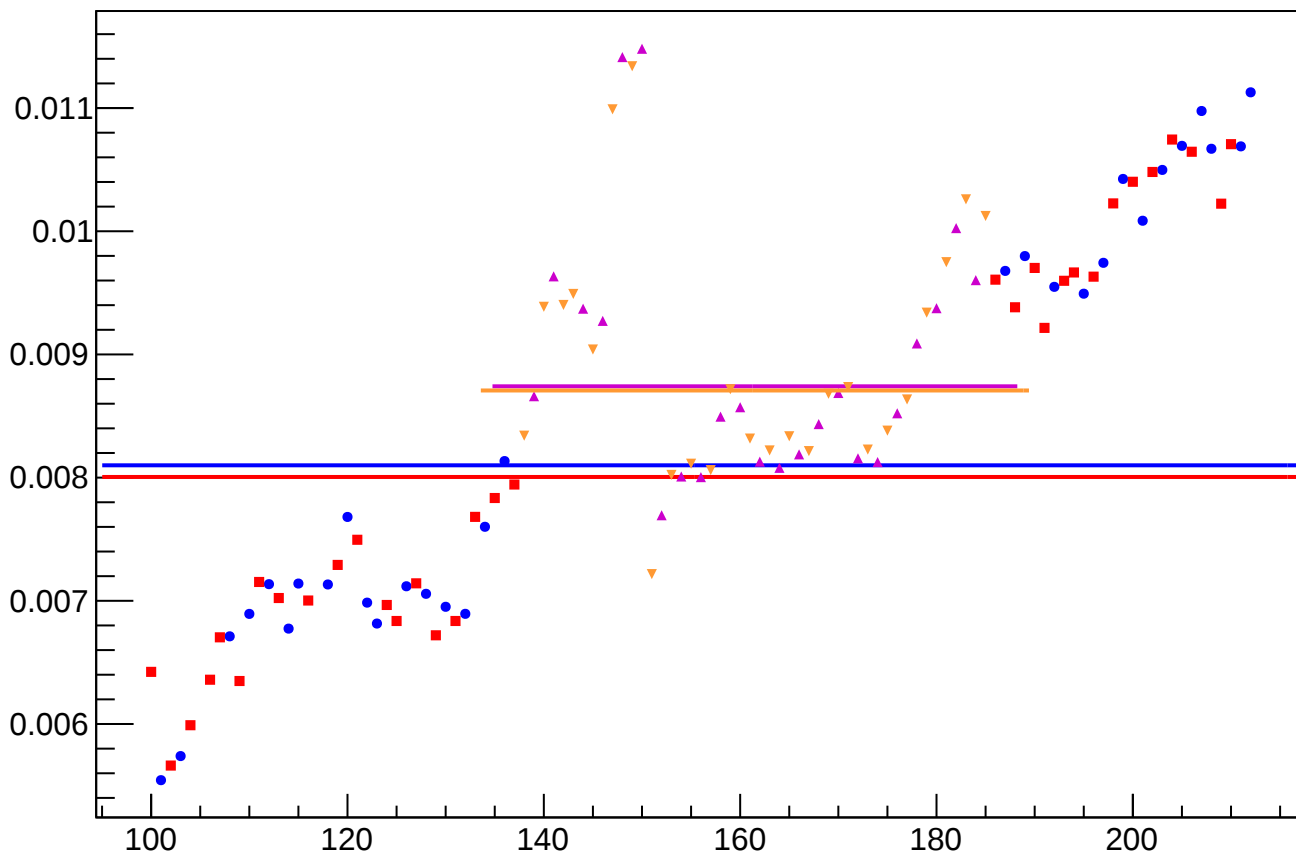
Right In: -1.908+/-0.000 χ^2 /NDF: 132305229762.9/29

Left Out: -2.574+/-0.000 χ^2 /NDF: 99176112704.9/24

Right Out: -1.938+/-0.000 χ^2 /NDF: 128309893043.7/32

Left In: -2.621+/-0.000 χ^2 /NDF: 80862402796.4/22

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1516154.3/29

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1398940.4/32

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

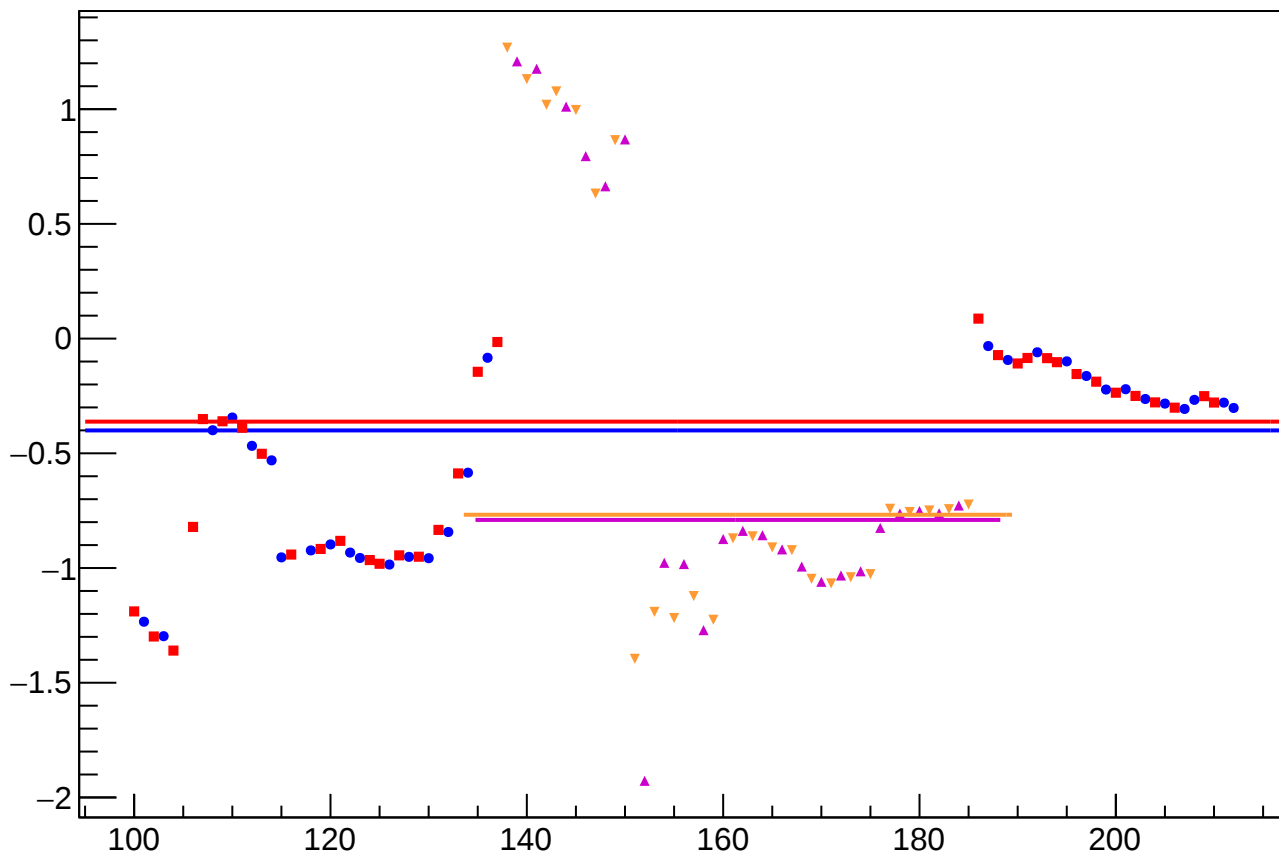
Right: 0.008+/-0.000 χ^2/NDF : 2917234.6/62

In: 0.008+/-0.000 χ^2/NDF : 1963472.9/52

Out: 0.008+/-0.000 χ^2/NDF : 1888228.6/57

All: 0.008+/-0.000 χ^2/NDF : 3853680.0/110

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.400+/-0.000 χ^2/NDF : 22890434067.9/29

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.362+/-0.000 χ^2/NDF : 25287656828.5/32

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

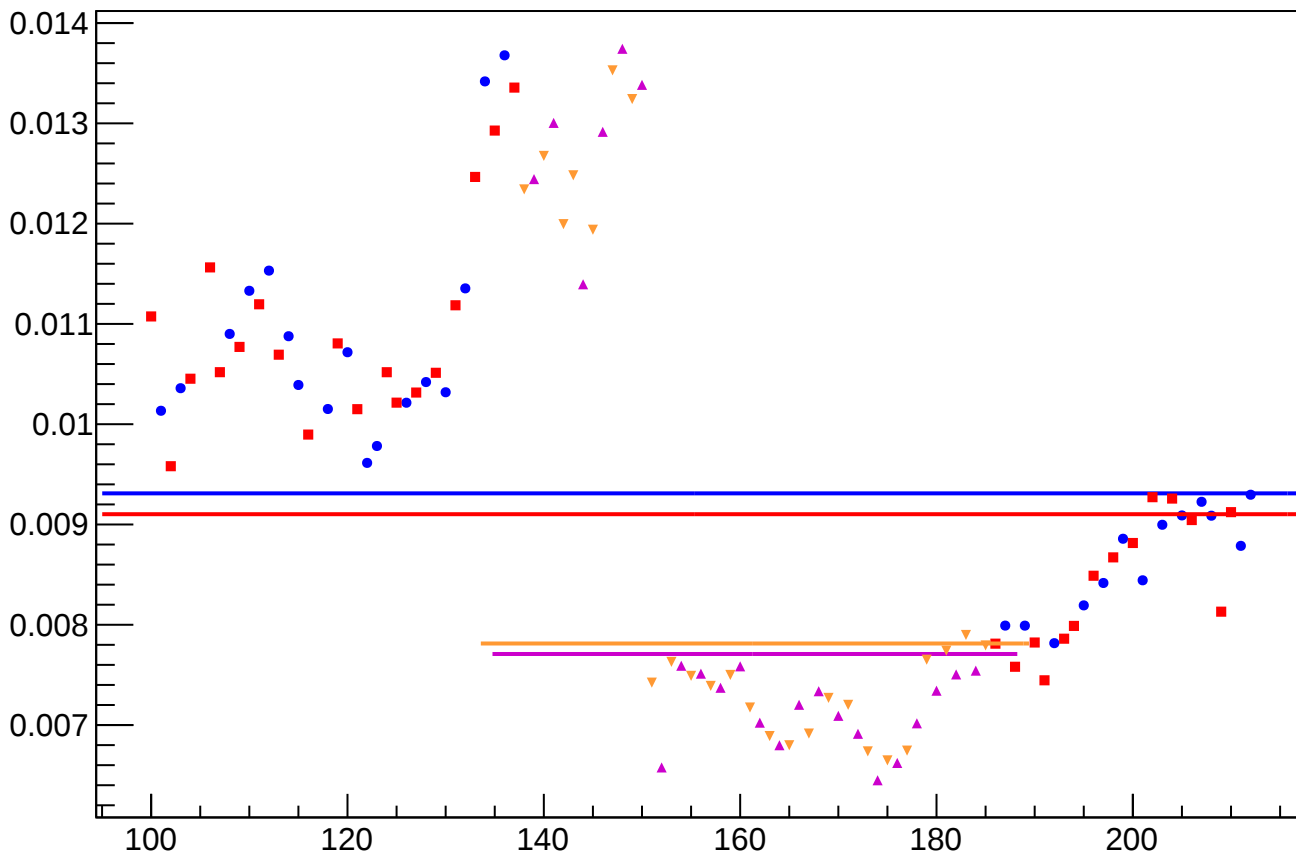
Right: -0.380+/-0.000 χ^2/NDF : 48313929372.4/62

In: -0.636+/-0.000 χ^2/NDF : 162720981825.3/52

Out: -0.603+/-0.000 χ^2/NDF : 164868640593.4/57

All: -0.619+/-0.000 χ^2/NDF : 327836537083.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 547566.1/29

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 650311.7/32

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

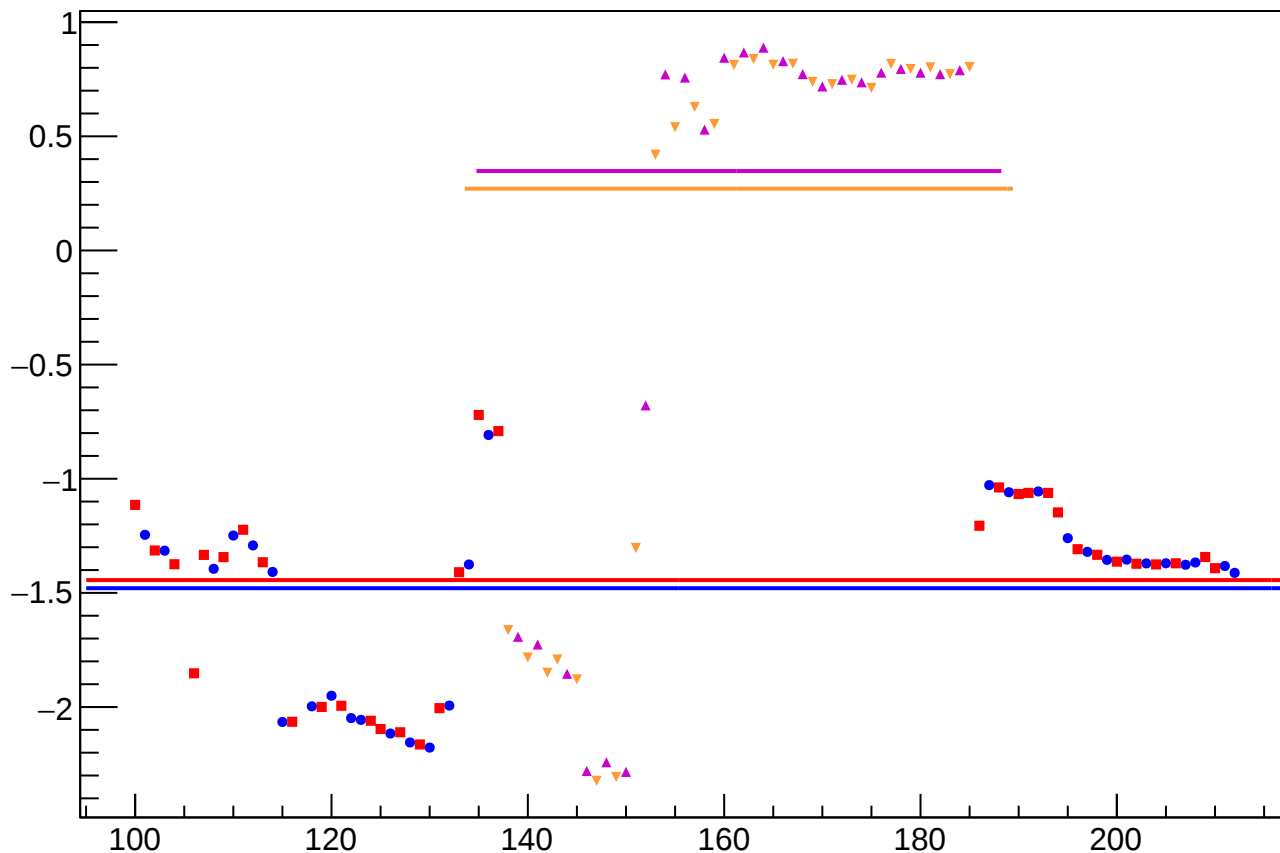
Right: 0.009+/-0.000 χ^2/NDF : 1205851.6/62

In: 0.008+/-0.000 χ^2/NDF :2846496.5/52

Out: 0.008+/-0.000 χ^2/NDF :2735841.5/57

All: 0.008+/-0.000 χ^2/NDF : 5582357.5/110

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.479+/-0.000 χ^2/NDF : 174984019192.3/29

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.444+/-0.000 χ^2/NDF : 164511760603.6/32

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

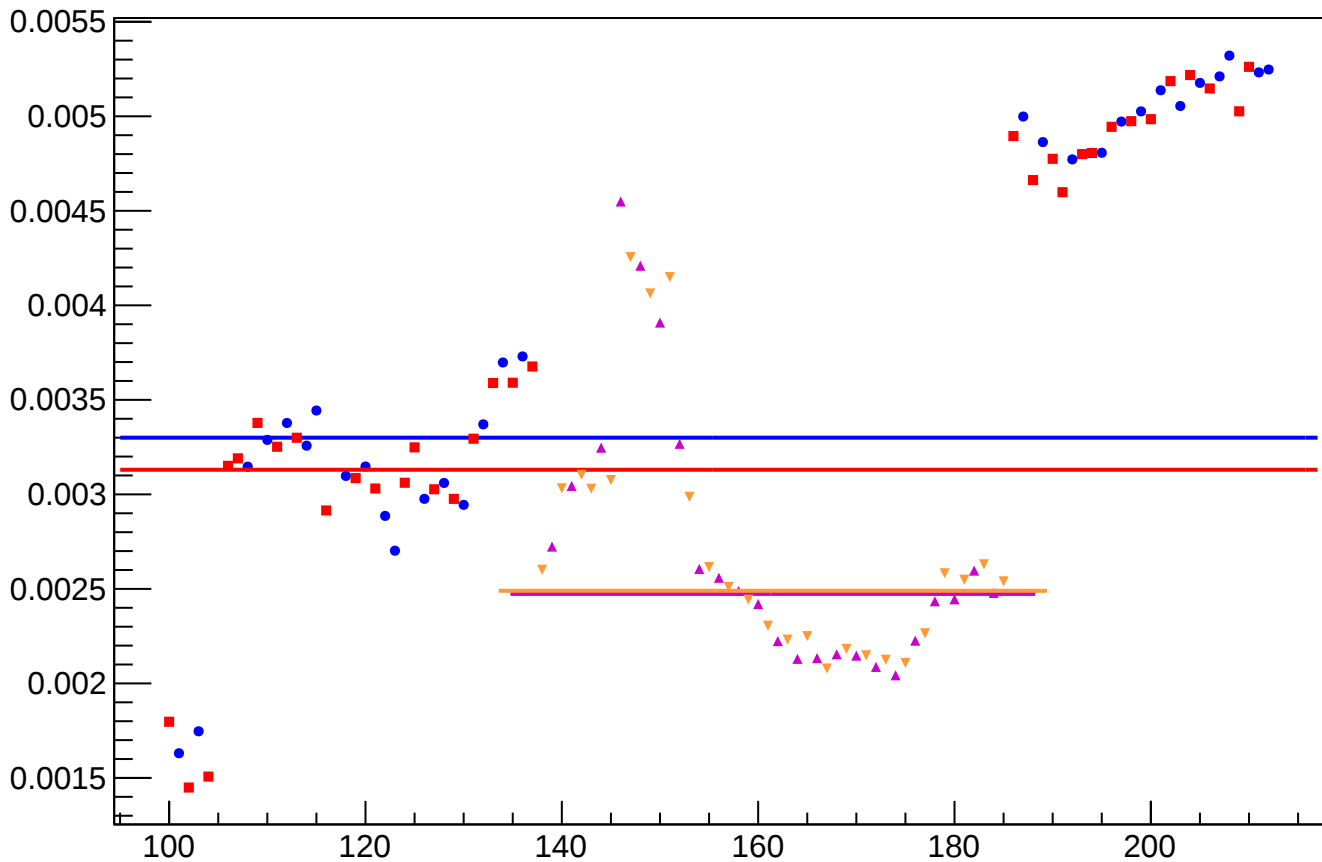
Right: -1.461+/-0.000 χ^2/NDF : 340299830547.8/62

In: -0.248+/-0.000 χ^2/NDF : 5153008736614.0/52

Out: -0.309+/-0.000 χ^2/NDF : 5355552544298.7/57

All: -0.280+/-0.000 χ^2/NDF : 1051572201626

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4090411.2/29

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4976340.9/32

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

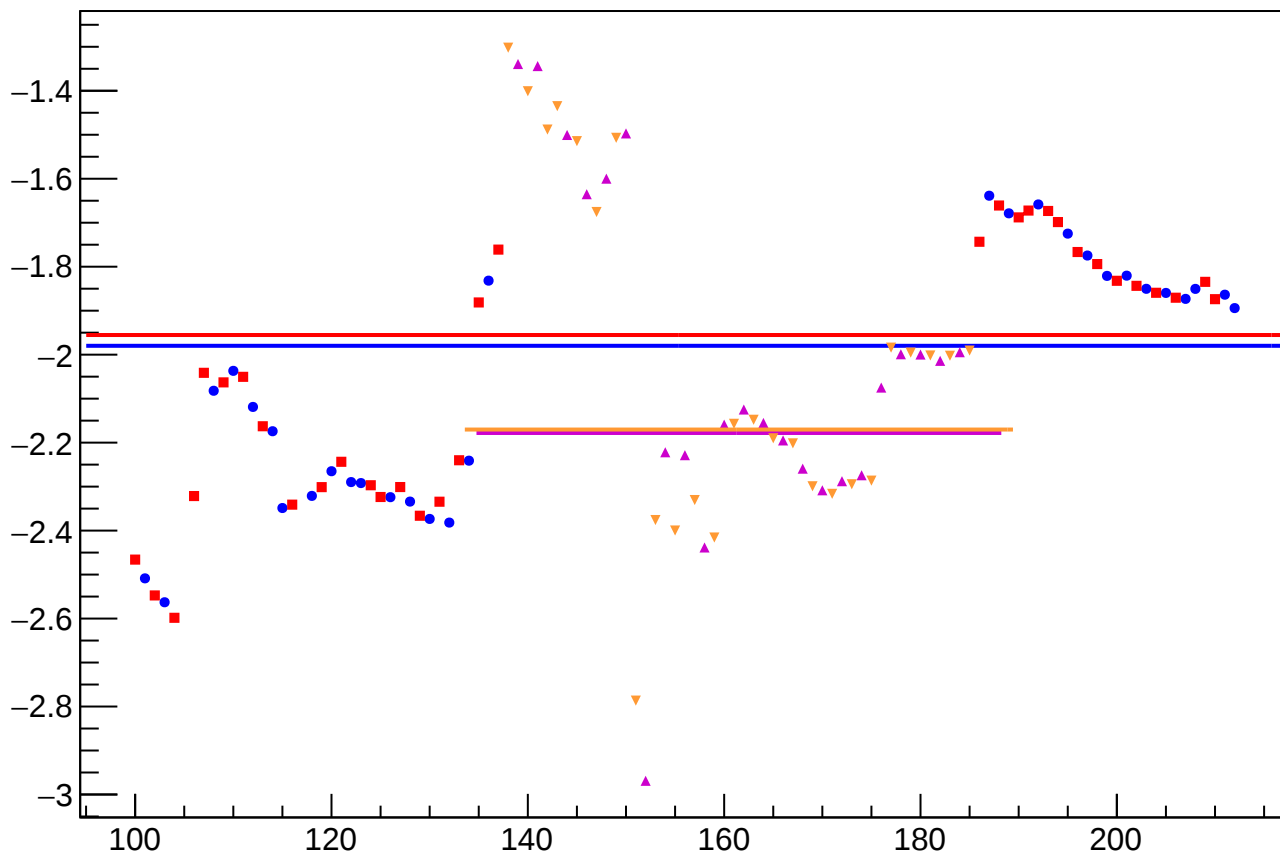
Right: 0.003+/-0.000 χ^2/NDF : 9103245.5/62

In: 0.003+/-0.000 χ^2/NDF :6331801.3/52

Out: 0.003+/-0.000 χ^2/NDF :6773641.0/57

All: 0.003+/-0.000 χ^2/NDF : 13110494.4/110

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.980+/-0.000 χ^2/NDF : 31294778992.2/29

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.955+/-0.000 χ^2/NDF : 35264985082.1/32

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

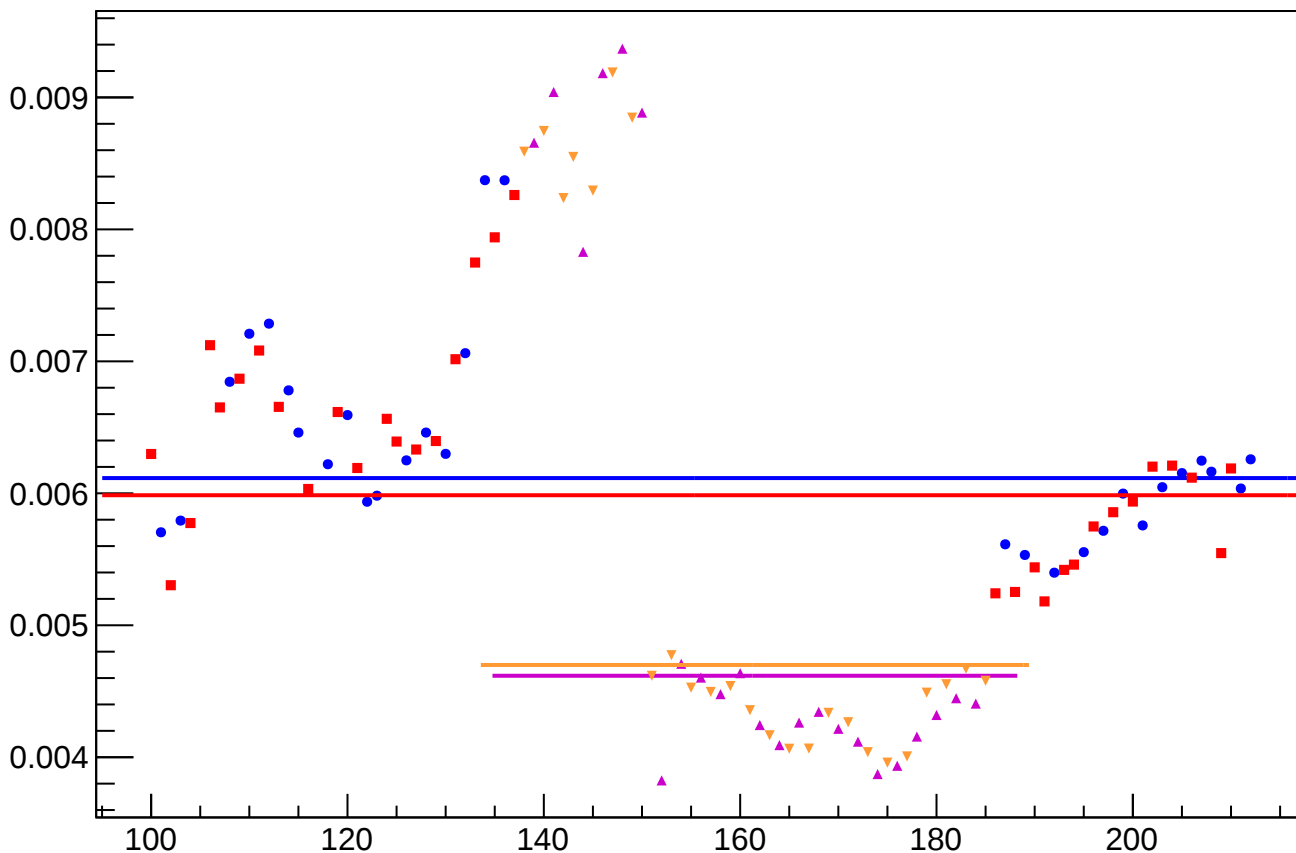
Right: -1.967+/-0.000 χ^2/NDF : 66688407635.2/62

In: -2.107+/-0.000 χ^2/NDF : 115063785736.9/52

Out: -2.091+/-0.000 χ^2/NDF : 108161253936.1/57

All: -2.098+/-0.000 χ^2/NDF : 223376336729.4

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 303845.7/29

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 364151.1/32

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

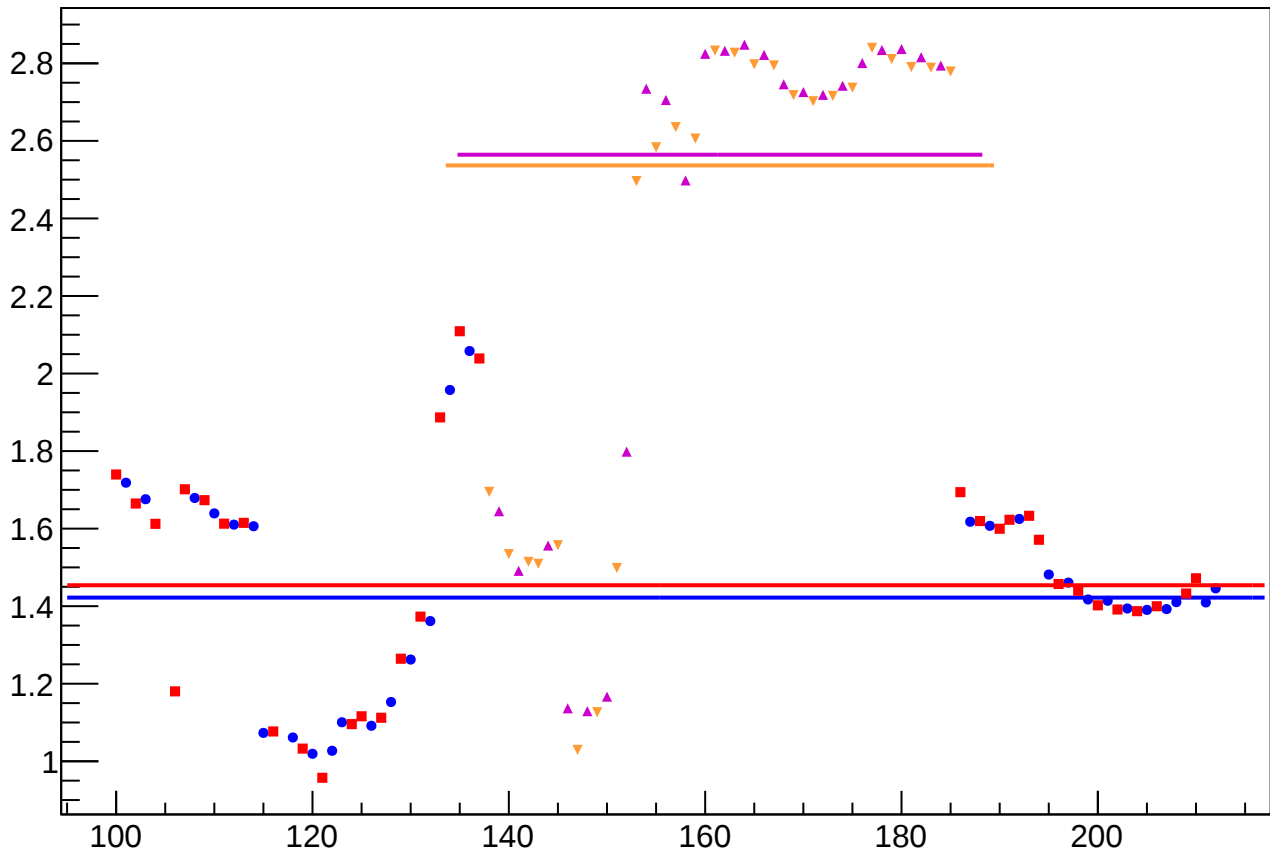
Right: 0.006+/-0.000 χ^2/NDF : 675240.3/62

In: 0.005+/-0.000 χ^2/NDF :3855640.4/52

Out: 0.005+/-0.000 χ^2/NDF :3610086.3/57

All: 0.005+/-0.000 χ^2/NDF : 7466138.2/110

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 174174584668.5/29

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 176999680745.8/32

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

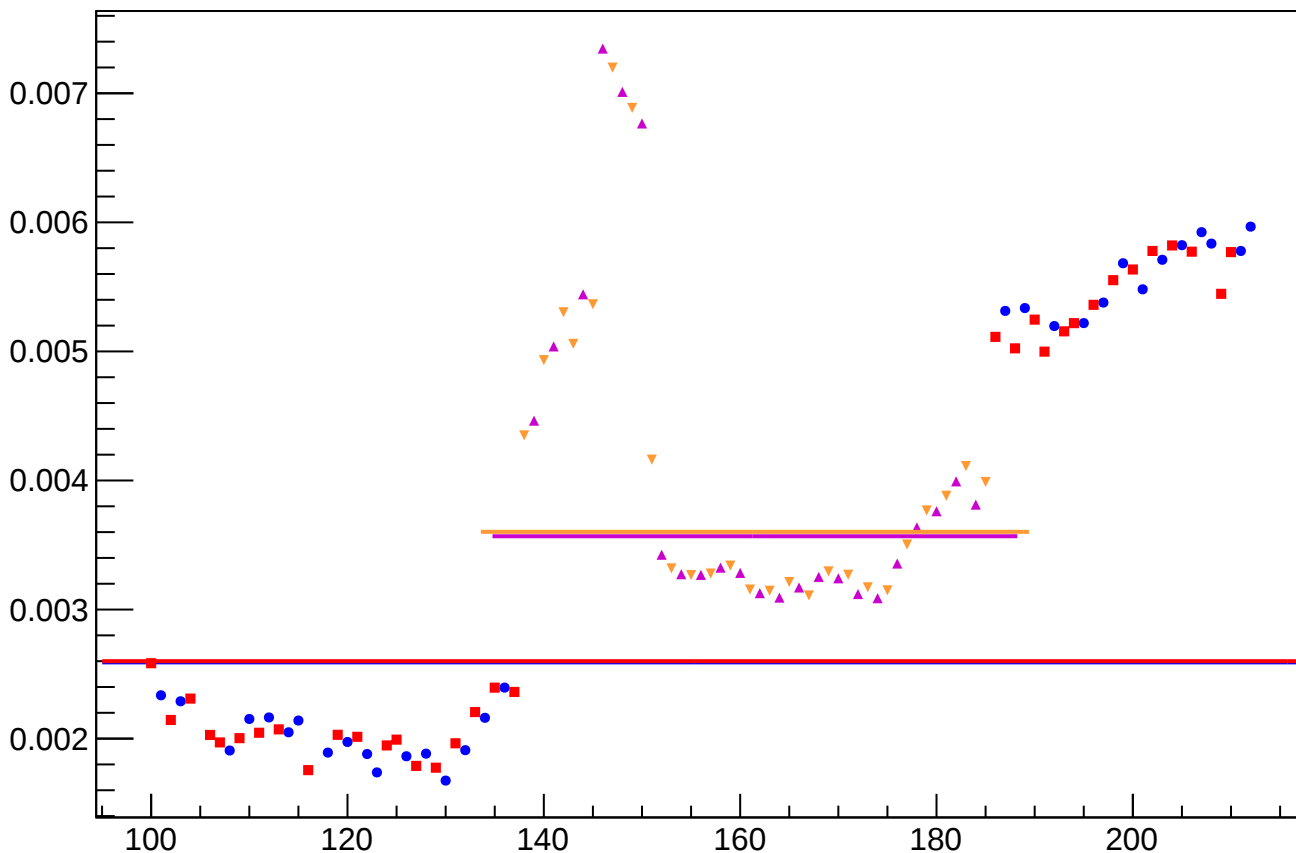
Right: 1.438+/-0.000 χ^2/NDF : 352114360961.5/62

In: 1.883+/-0.000 χ^2/NDF : 1388231848861.2/52

Out: 1.893+/-0.000 χ^2/NDF : 1344834261695.6/57

All: 1.888+/-0.000 χ^2/NDF : 2733205429575.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 6450838.1/29

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6257163.3/32

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

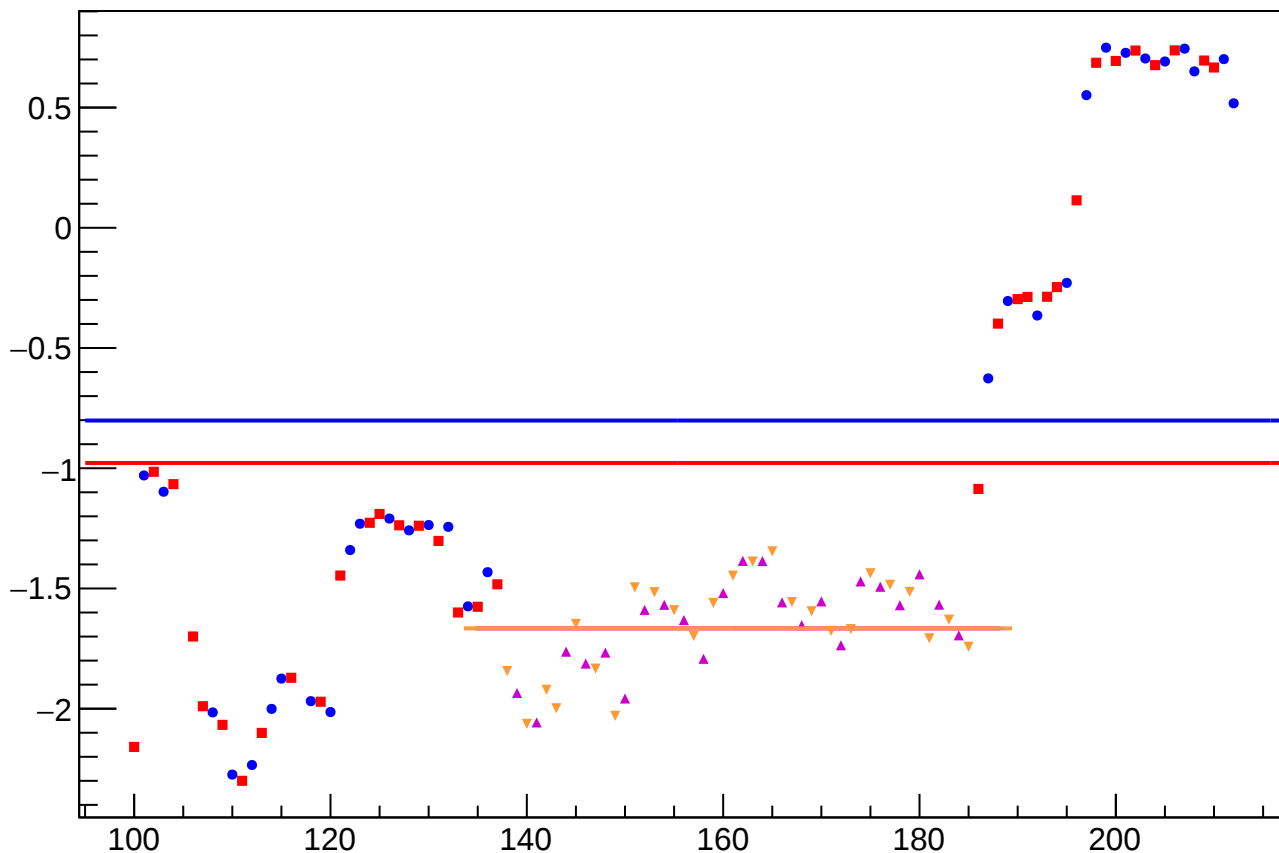
Right: 0.003+/-0.000 χ^2/NDF : 12708165.1/62

In: 0.003+/-0.000 χ^2/NDF :9410025.6/52

Out: 0.003+/-0.000 χ^2/NDF :9206649.5/57

All: 0.003+/-0.000 χ^2/NDF : 18618035.9/110

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.802±/0.000

χ^2/NDF : 220703792741.4/29

Left: -1.666±/0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666±/0.000

χ^2/NDF : 18325162131.2/24

Right: -0.895±/0.000

χ^2/NDF : 463874372090.5/62

Right Out: -0.978±/0.000

χ^2/NDF : 239549417072.0/32

In: -1.365±/0.000

χ^2/NDF : 341533830731.1/52

Out: -1.418±/0.000

χ^2/NDF : 333178883562.1/57

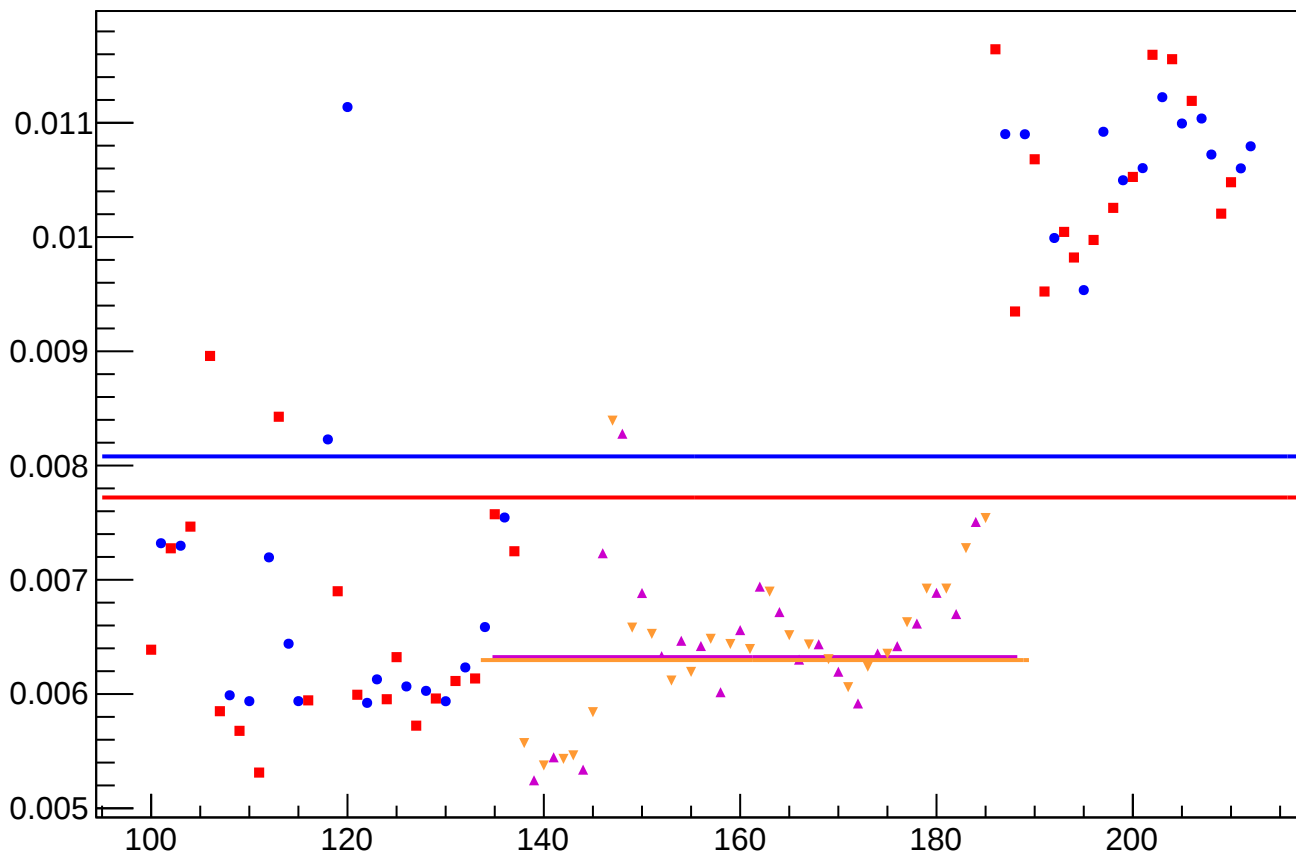
Left In: -1.666±/0.000

χ^2/NDF : 14292570816.9/22

All: -1.393±/0.000

χ^2/NDF : 675612584152.3

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1863252.8/29

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:310757.0/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 2102188.1/32

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:330859.7/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 641901.9/47

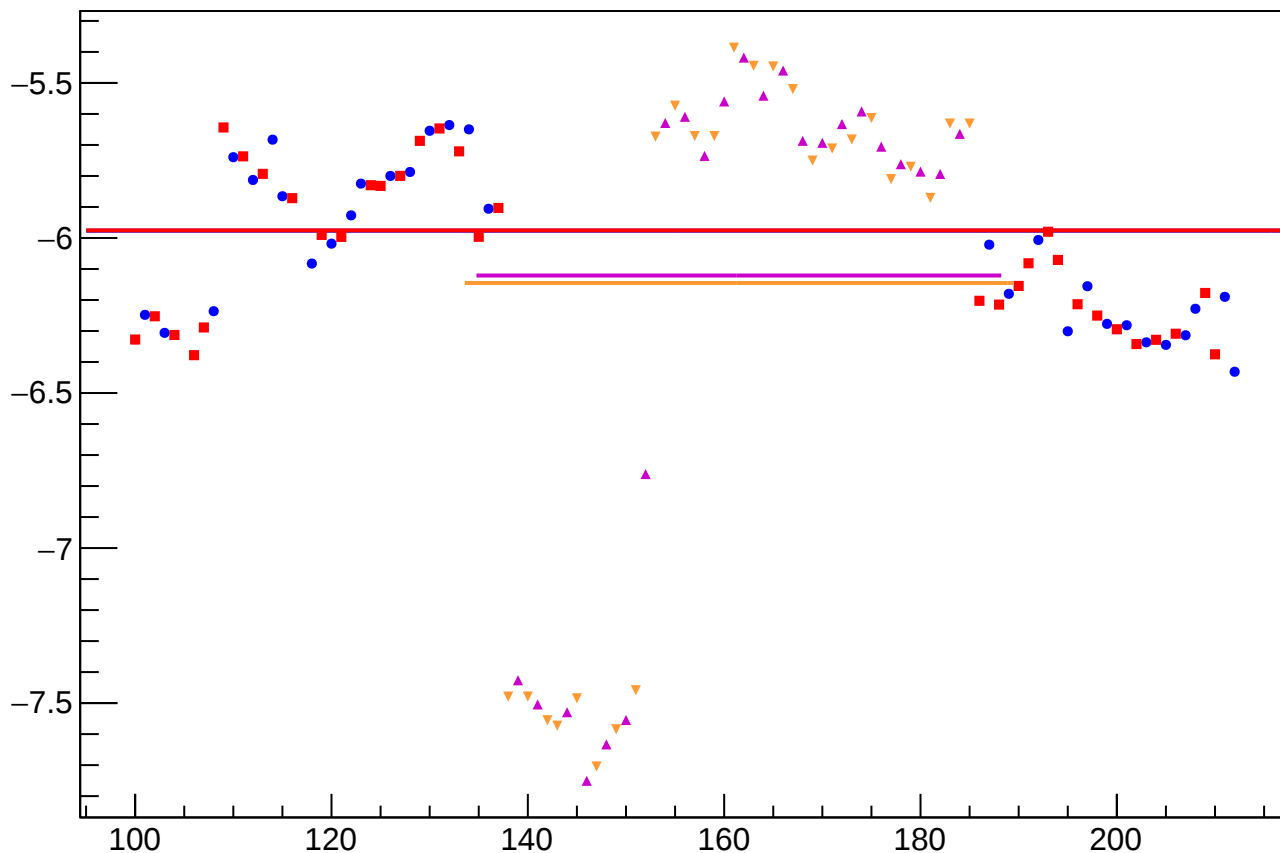
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 3995517.8/62

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3073929.5/52

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:3057161.7/57

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 6141079.1/110

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.976+/-0.000 χ^2/NDF : 16201313893.8/29

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.975+/-0.000 χ^2/NDF : 17099659381.3/32

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

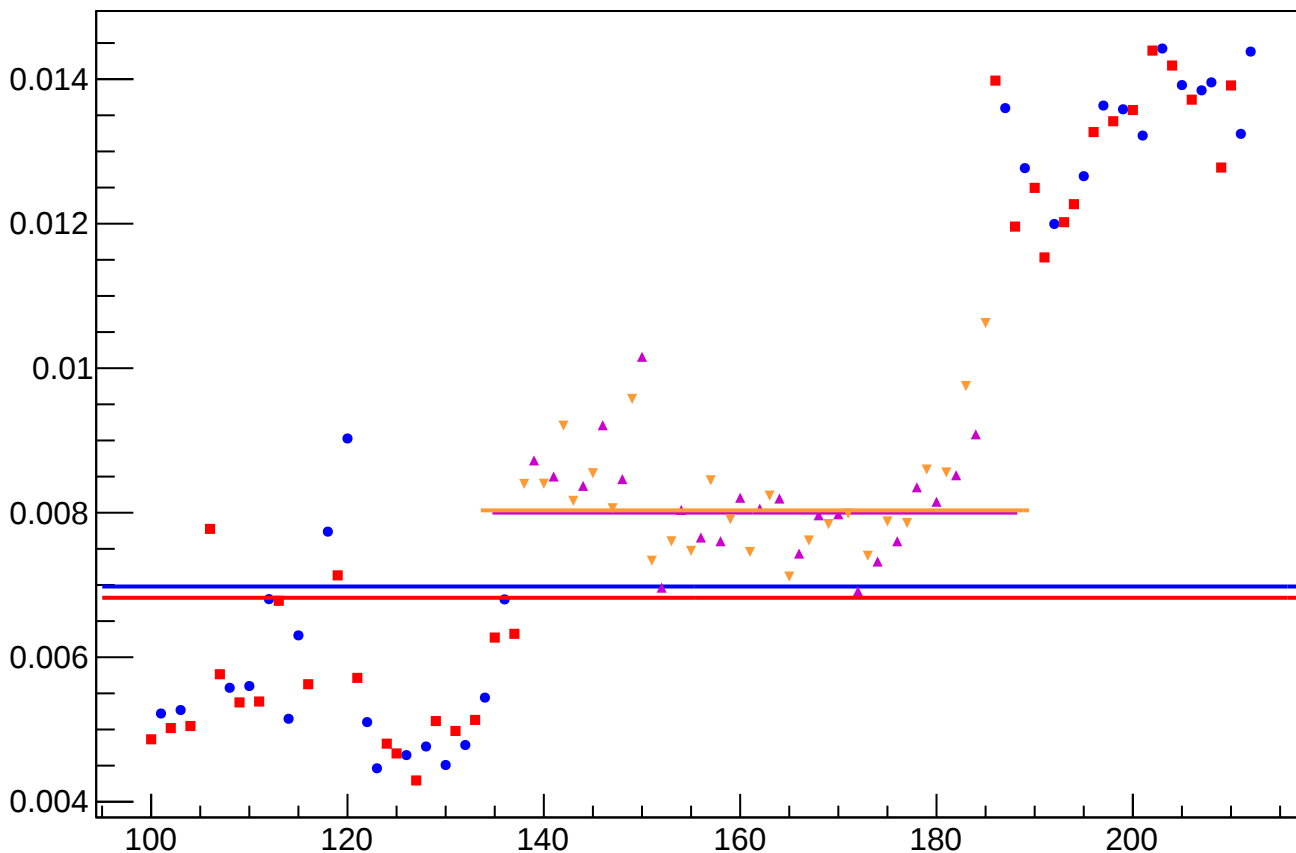
Right: -5.976+/-0.000 χ^2/NDF : 33301099067.5/62

In: -6.048+/-0.000 χ^2/NDF : 177121930914.9/52

Out: -6.057+/-0.000 χ^2/NDF : 206295779029.3/57

All: -6.053+/-0.000 χ^2/NDF : 383439926228.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5515562.1/29

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5405597.4/32

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

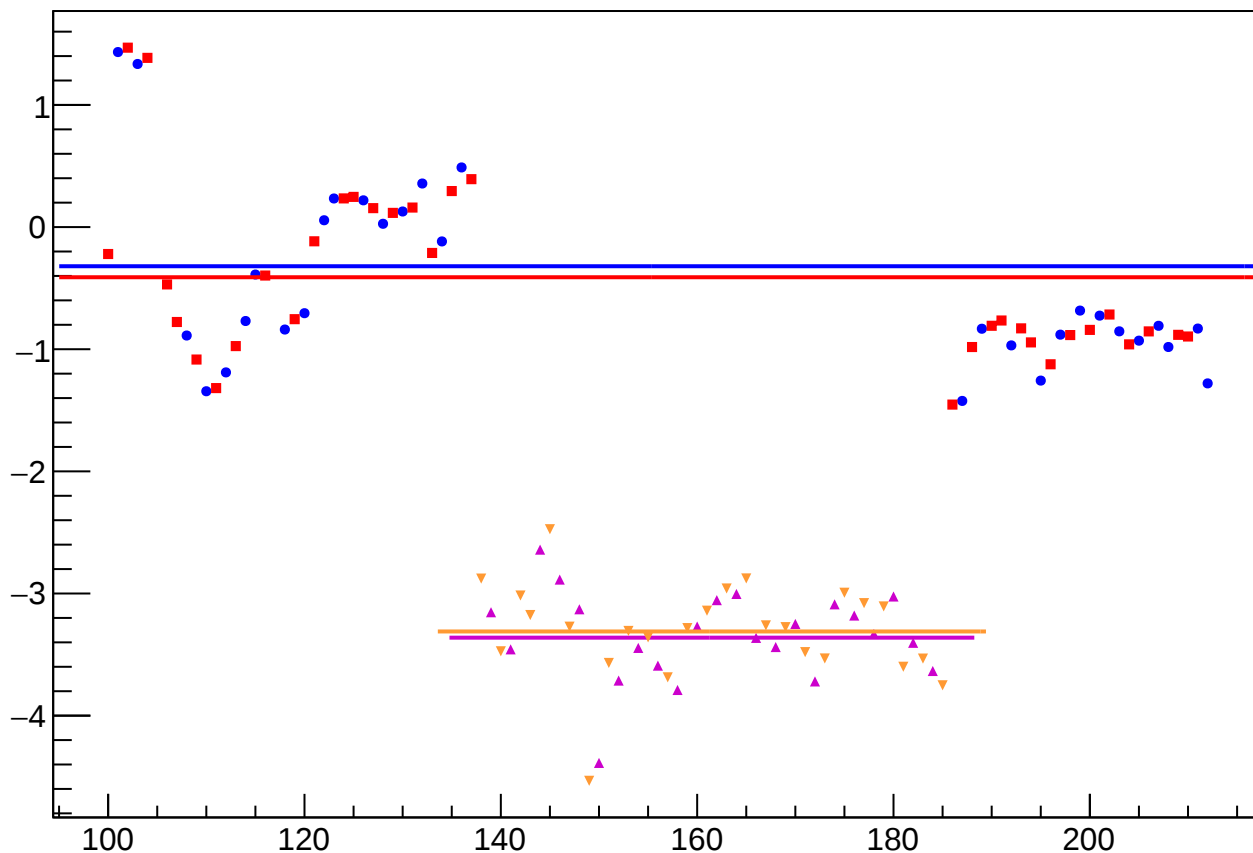
Right: 0.007+/-0.000 χ^2/NDF : 10927555.3/62

In: 0.007+/-0.000 χ^2/NDF :5996896.3/52

Out: 0.007+/-0.000 χ^2/NDF :6000940.1/57

All: 0.007+/-0.000 χ^2/NDF : 12001015.6/110

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.321 ± 0.000 $\chi^2/\text{NDF}: 33863140396.0/29$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.411 ± 0.000 $\chi^2/\text{NDF}: 33326031966.6/32$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

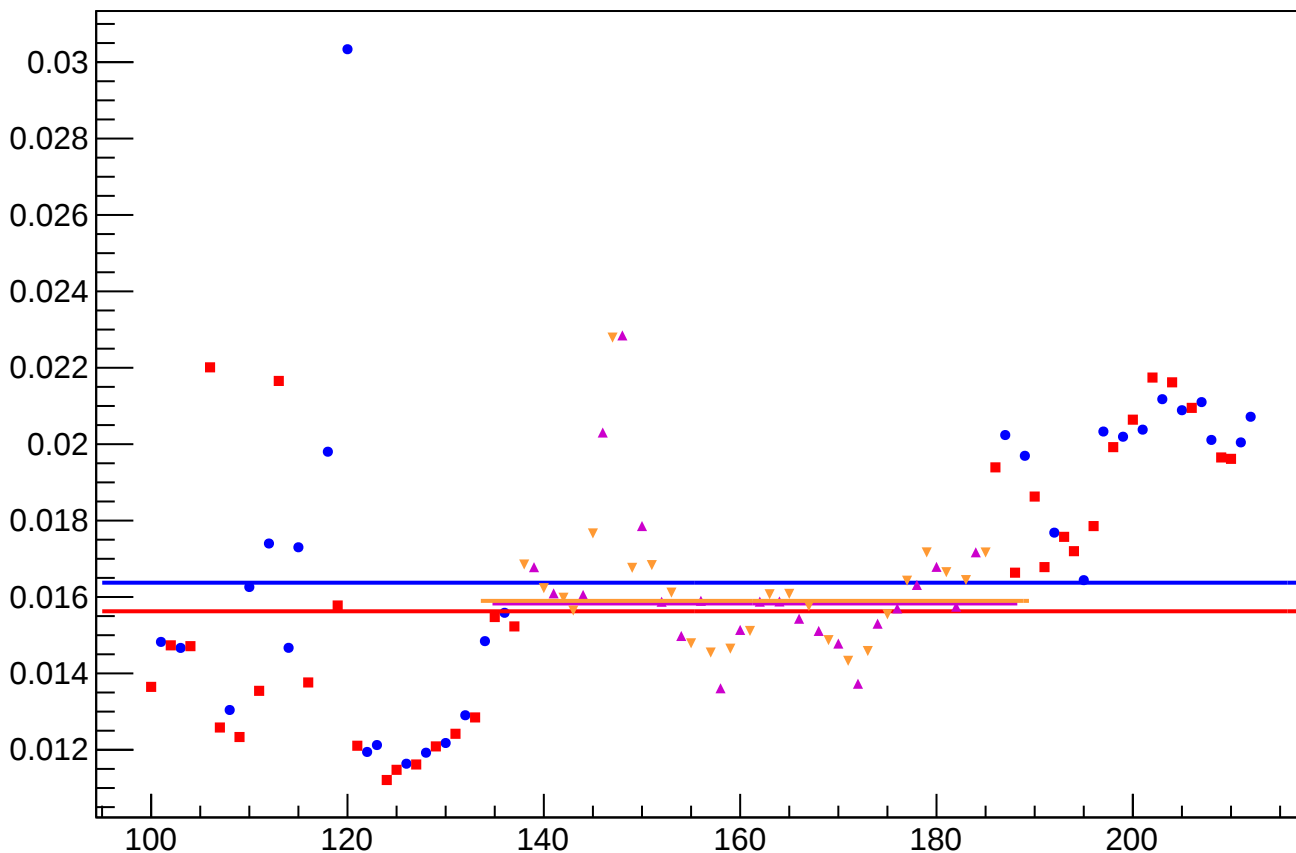
Right: -0.369 ± 0.000 $\chi^2/\text{NDF}: 67423467706.5/62$

In: -1.997 ± 0.000 $\chi^2/\text{NDF}: 317004364849.4/52$

Out: -1.948 ± 0.000 $\chi^2/\text{NDF}: 319102514340.8/57$

All: -1.971 ± 0.000 $\chi^2/\text{NDF}: 636258139568.8$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1387837.1/29

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1387786.0/32

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

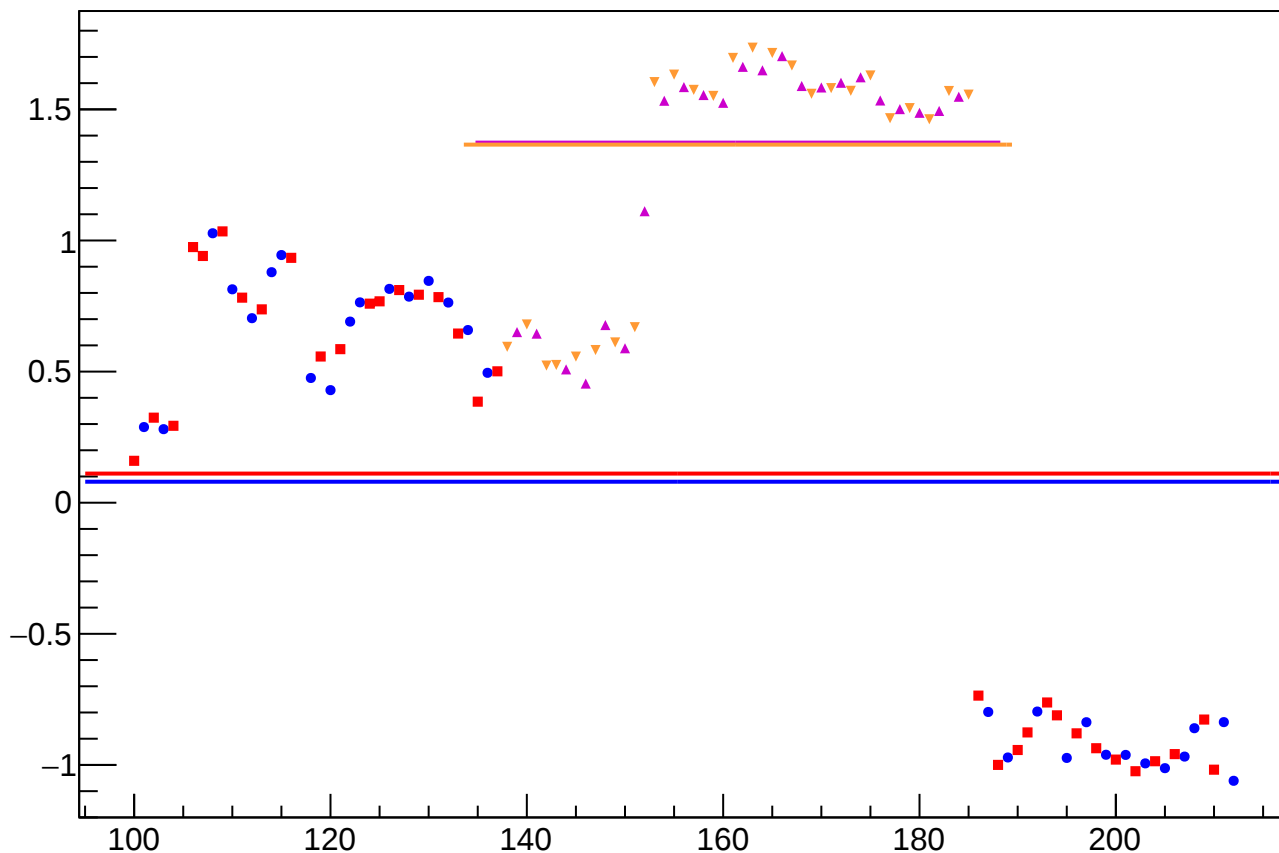
Right: 0.016+/-0.000 χ^2/NDF : 2807916.4/62

In: 0.016+/-0.000 χ^2/NDF :1744944.9/52

Out: 0.016+/-0.000 χ^2/NDF :1644576.3/57

All: 0.016+/-0.000 χ^2/NDF : 3401160.5/110

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.080+/-0.000

χ^2/NDF : 84699957226.5/29

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right Out: 0.111+/-0.000

χ^2/NDF : 92757752196.3/32

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.096+/-0.000

χ^2/NDF : 177532074705.9/62

In: 1.044+/-0.000

χ^2/NDF : 329815811025.2/52

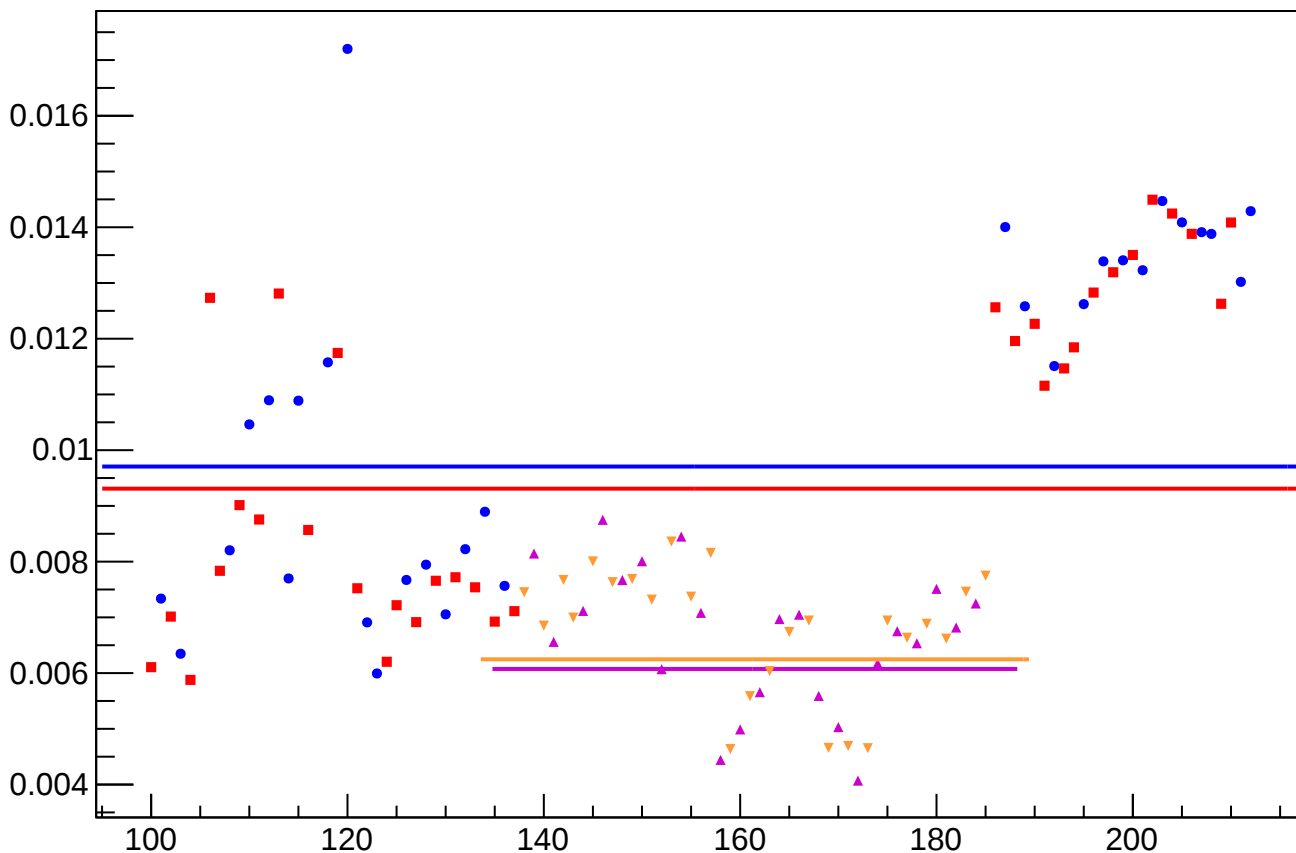
Out: 1.017+/-0.000

χ^2/NDF : 353555713247.9/57

All: 1.031+/-0.000

χ^2/NDF : 683583543541.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2/NDF : 2506029.9/29

Left Out: 0.006 $\pm$ 0.000 χ^2/NDF :1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2/NDF : 2565570.7/32

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

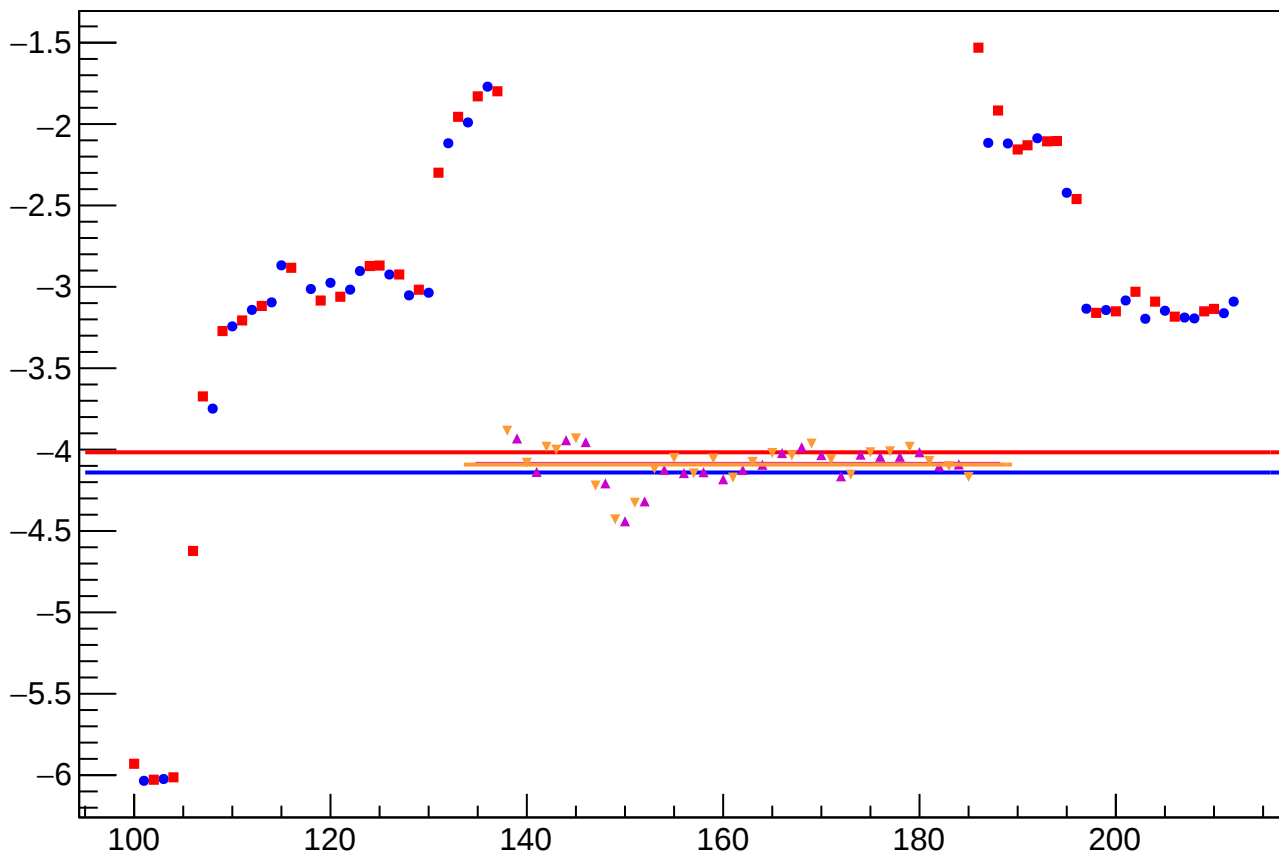
Right: 0.009 $\pm$ 0.000 χ^2/NDF : 5095876.4/62

In: 0.007 $\pm$ 0.000 χ^2/NDF :6805262.5/52

Out: 0.007 $\pm$ 0.000 χ^2/NDF :6114200.5/57

All: 0.007 $\pm$ 0.000 χ^2/NDF : 12925209.0/110

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.141+/-0.000

χ^2/NDF : 284367736568.3/29

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -4.017+/-0.000

χ^2/NDF : 274244260241.6/32

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.088+/-0.000

χ^2/NDF : 559374875994.9/62

In: -4.139+/-0.000

χ^2/NDF : 284413698504.4/52

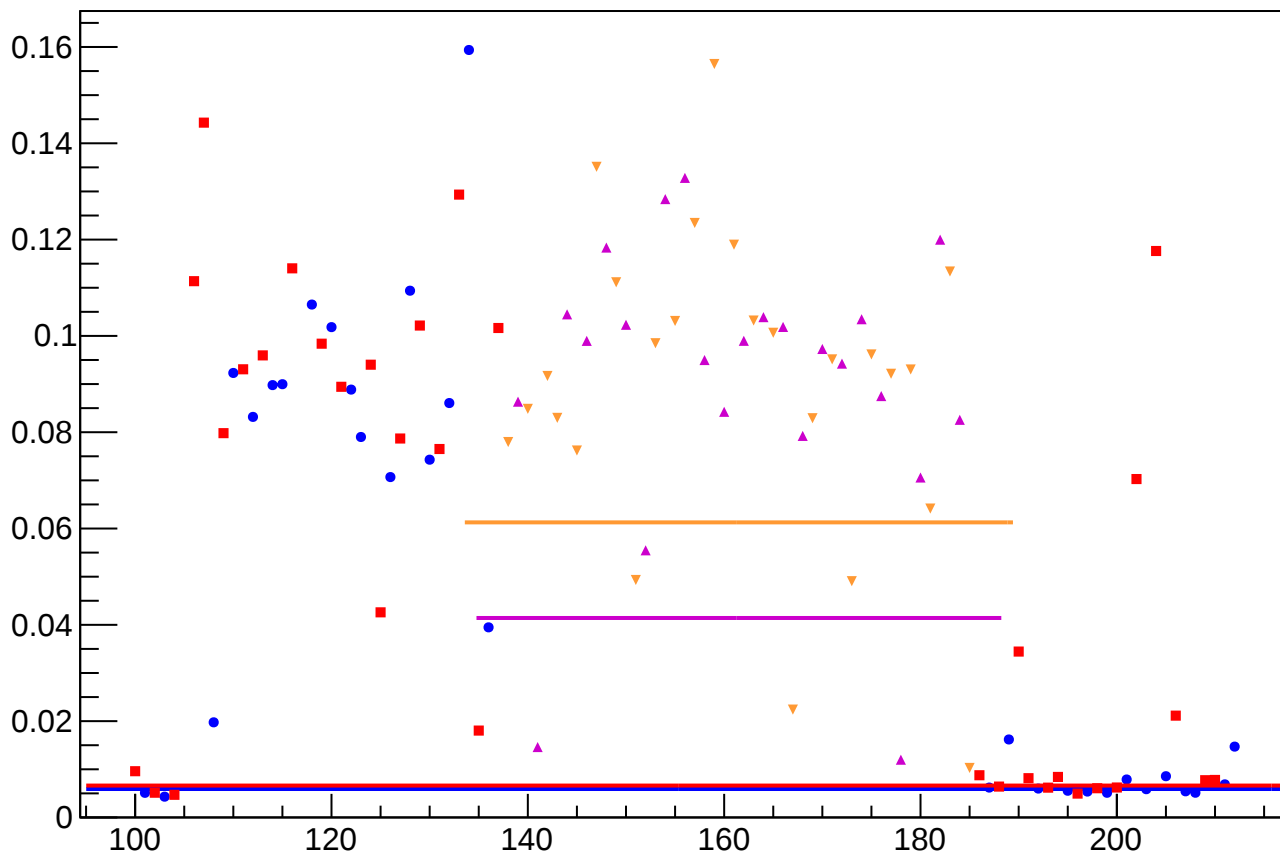
Out: -4.019+/-0.000

χ^2/NDF : 274300215894.5/57

All: -4.088+/-0.000

χ^2/NDF : 559449132992.5

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8191138.1/29

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10348838.5/32

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

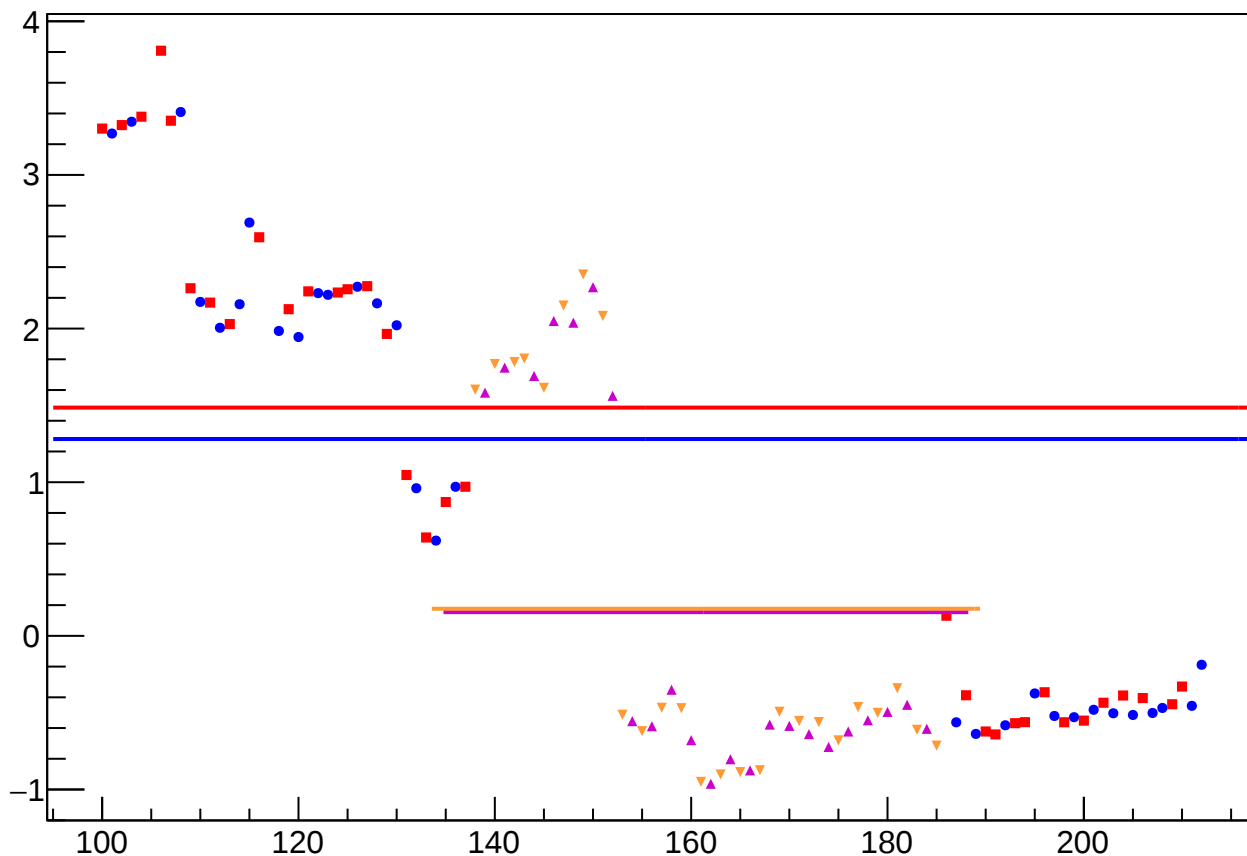
Right: 0.006+/-0.000 χ^2/NDF : 18590405.5/62

In: 0.007+/-0.000 χ^2/NDF : 31696418.9/52

Out: 0.008+/-0.000 χ^2/NDF : 35757164.5/57

All: 0.008+/-0.000 χ^2/NDF : 67623721.1/110

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.281+/-0.000 χ^2/NDF : 216926880292.2/29

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.486+/-0.000 χ^2/NDF : 182022643572.9/32

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

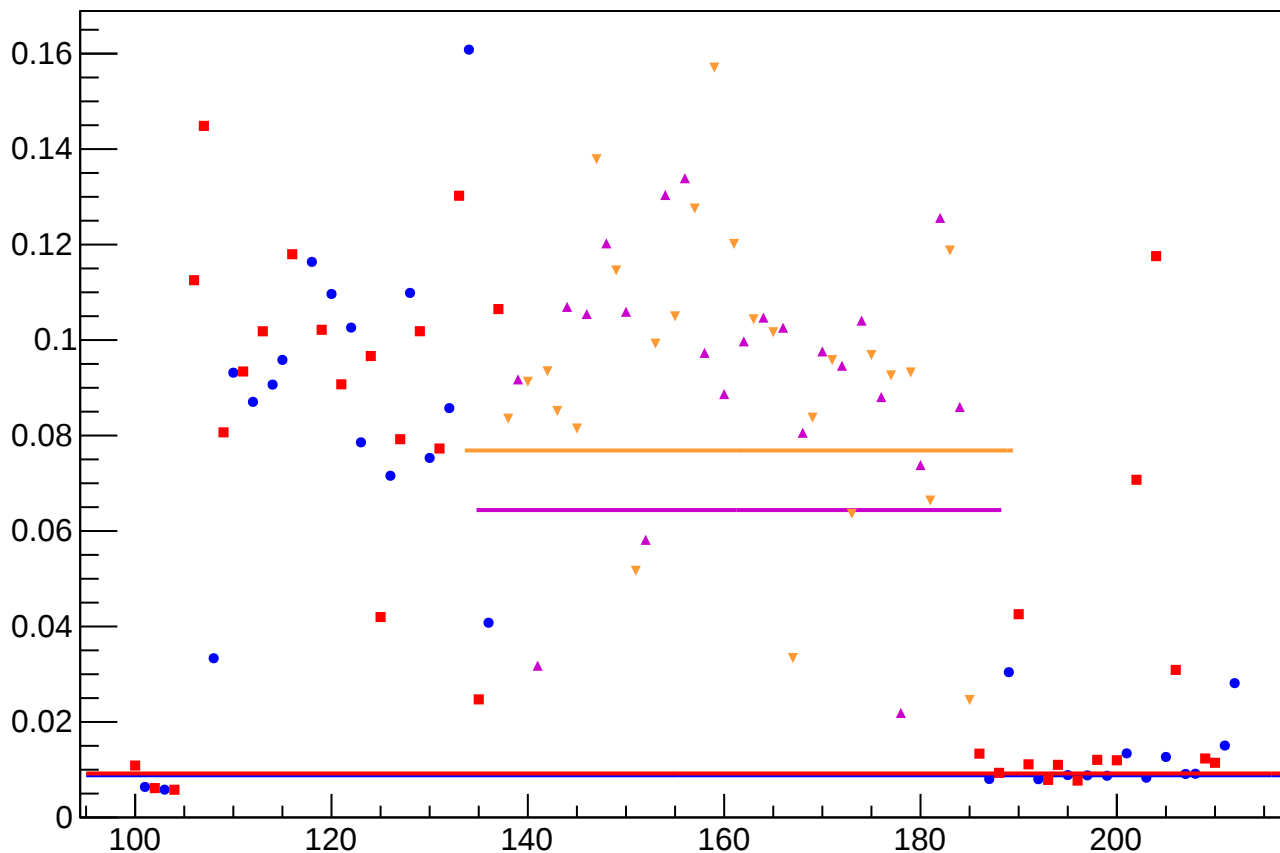
Right: 1.375+/-0.000 χ^2/NDF : 400113804321.2/62

In: 1.235+/-0.000 χ^2/NDF : 223232051222.7/52

Out: 1.430+/-0.000 χ^2/NDF : 189018901743.7/57

All: 1.325+/-0.000 χ^2/NDF : 413355072681.8

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 8355647.6/29

Left Out: 0.077+/-0.000 χ^2/NDF :4217954.3/24

Right Out: 0.009+/-0.000 χ^2/NDF : 10338445.4/32

Left In: 0.064+/-0.000 χ^2/NDF :6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

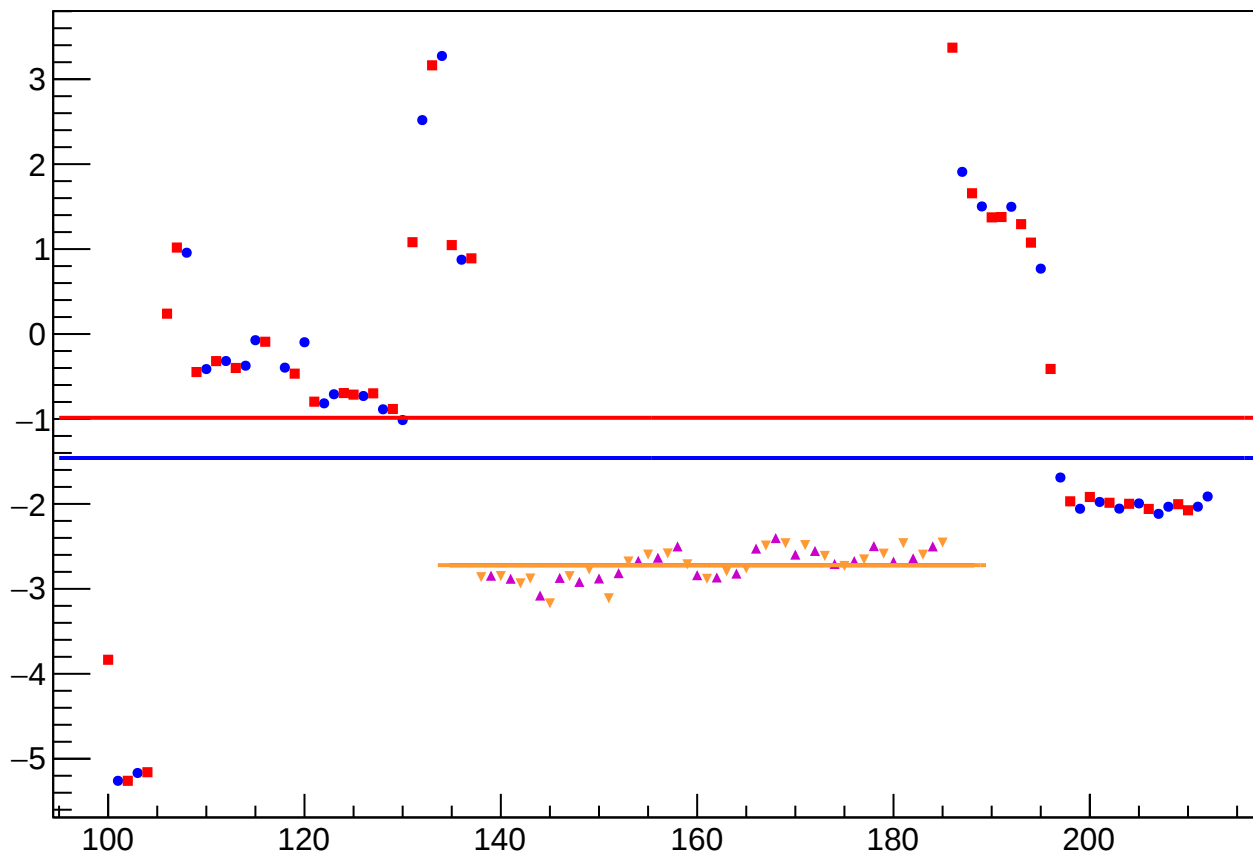
Right: 0.009+/-0.000 χ^2/NDF : 18702069.8/62

In: 0.011+/-0.000 χ^2/NDF :30615828.5/52

Out: 0.012+/-0.000 χ^2/NDF :34429839.1/57

All: 0.012+/-0.000 χ^2/NDF : 65101525.5/110

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.459+/-0.000

χ²/NDF: 207038298442.8/29

Left: -2.722+/-0.000

χ²/NDF: 18543711860.5/47

Left Out: -2.721+/-0.000

χ²/NDF: 10397156971.6/24

Right: -1.211+/-0.000

χ²/NDF: 451169348138.6/62

Right Out: -0.986+/-0.000

χ²/NDF: 239270630474.4/32

In: -2.556+/-0.000

χ²/NDF: 272465909152.7/52

Out: -2.486+/-0.000

χ²/NDF: 368417273340.3/57

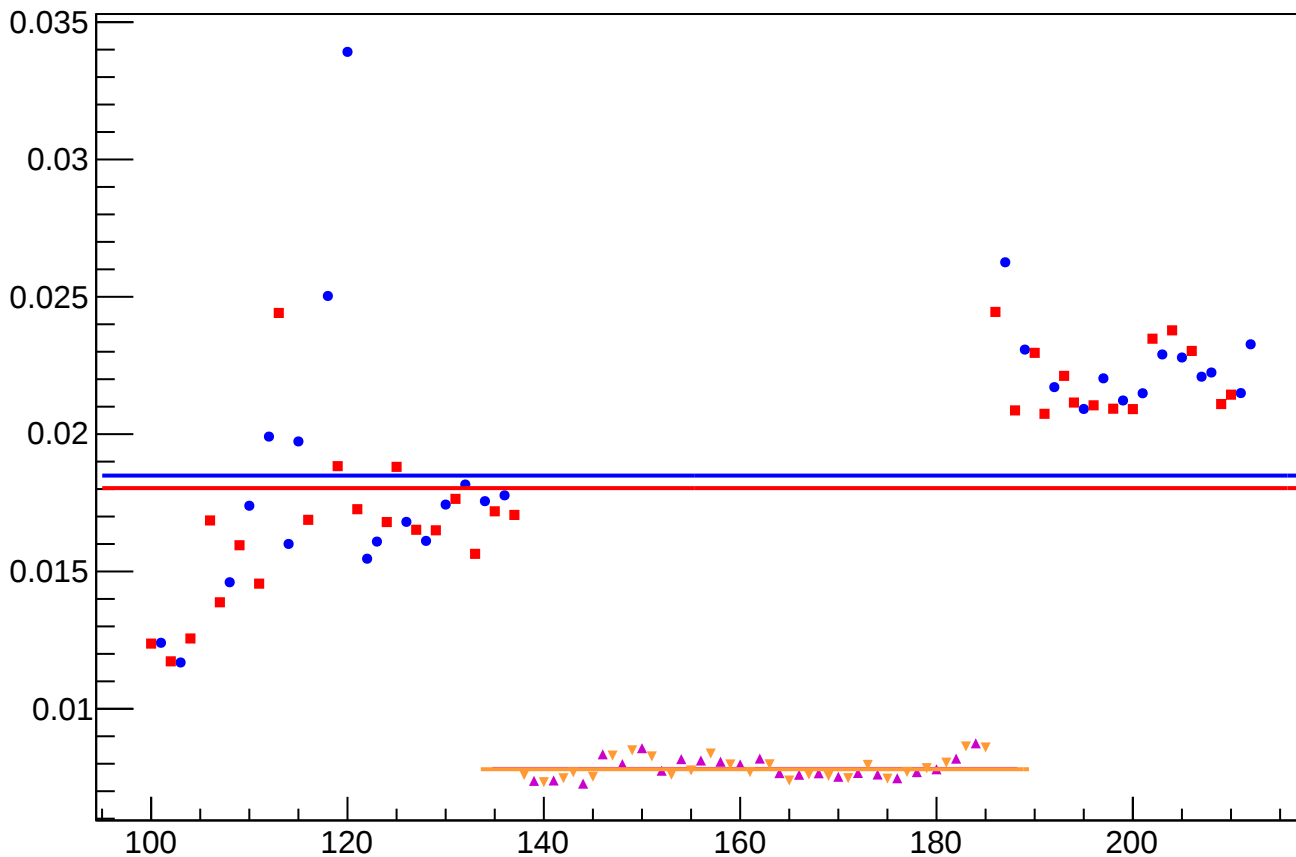
Left In: -2.722+/-0.000

χ²/NDF: 8146484592.1/22

All: -2.520+/-0.000

χ²/NDF: 641684430516.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1444053.5/29

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1306414.7/32

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

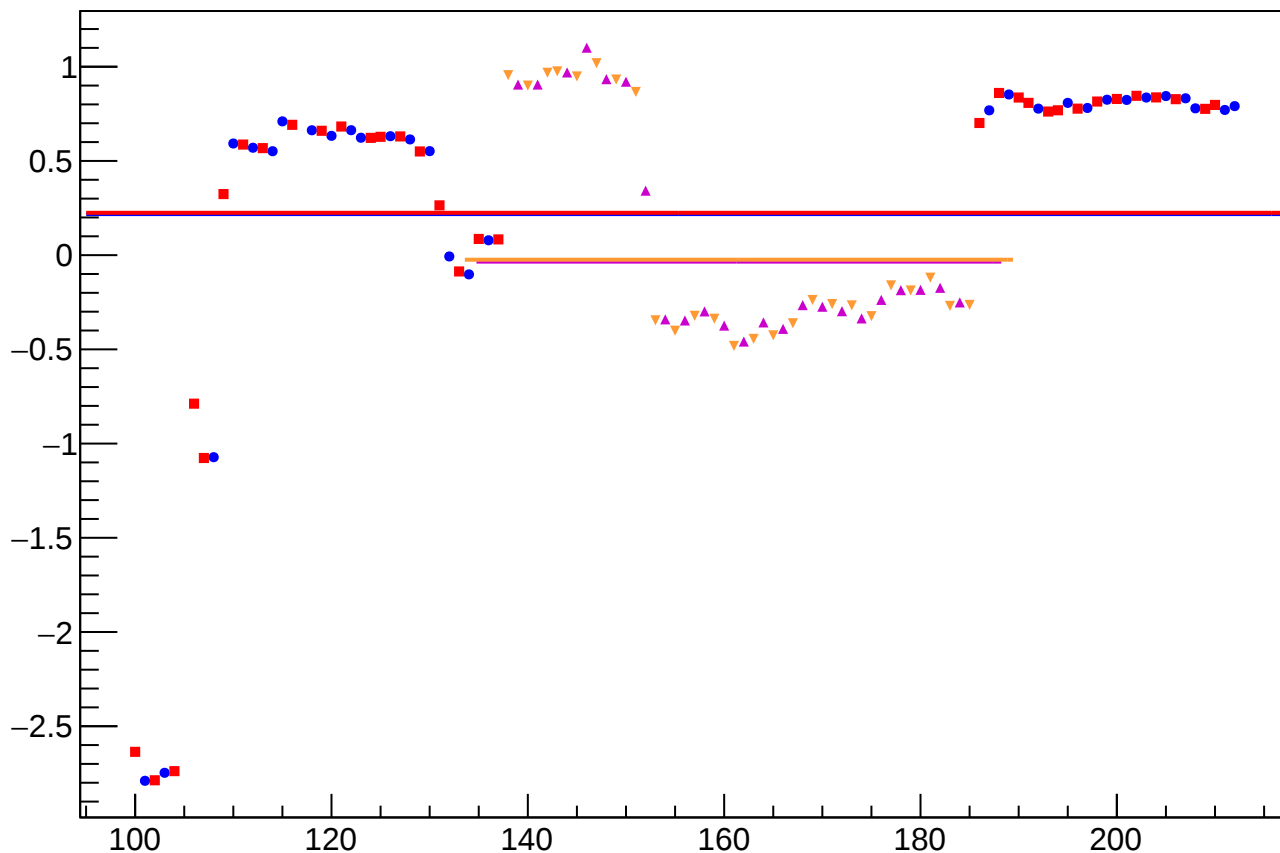
Right: 0.018+/-0.000 χ^2/NDF : 2759507.0/62

In: 0.009+/-0.000 χ^2/NDF : 9710105.1/52

Out: 0.009+/-0.000 χ^2/NDF : 9640014.5/57

All: 0.009+/-0.000 χ^2/NDF : 19350324.5/110

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.218+/-0.000

χ^2/NDF : 888413790283.6/29

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.221+/-0.000

χ^2/NDF : 1832450584534.2/62

Right Out: 0.225+/-0.000

χ^2/NDF : 944016909066.0/32

In: 0.127+/-0.000

χ^2/NDF : 1021262660806.3/52

Out: 0.138+/-0.000

χ^2/NDF : 1098927794509.1/57

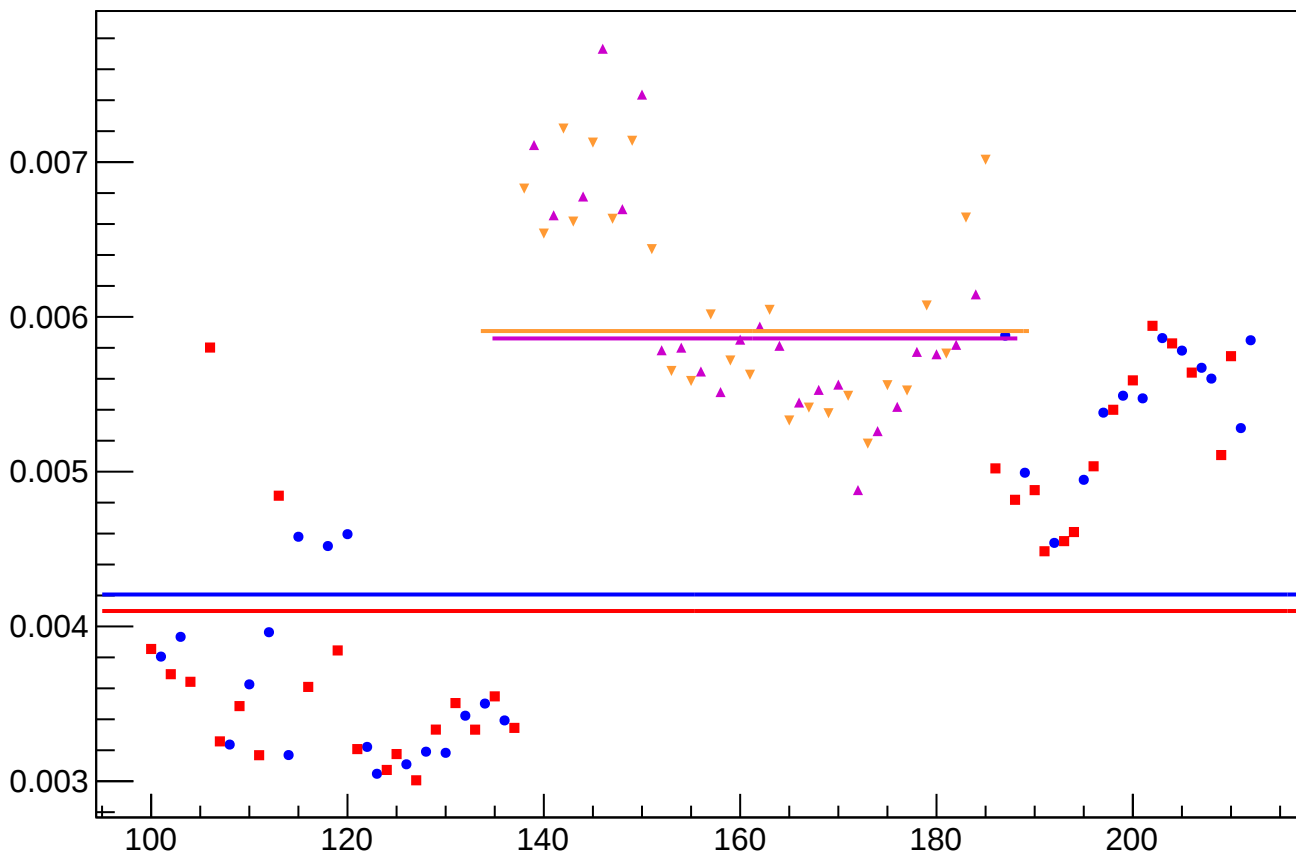
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.132+/-0.000

χ^2/NDF : 2120271341399.1/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1591780.9/29

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1553459.7/32

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

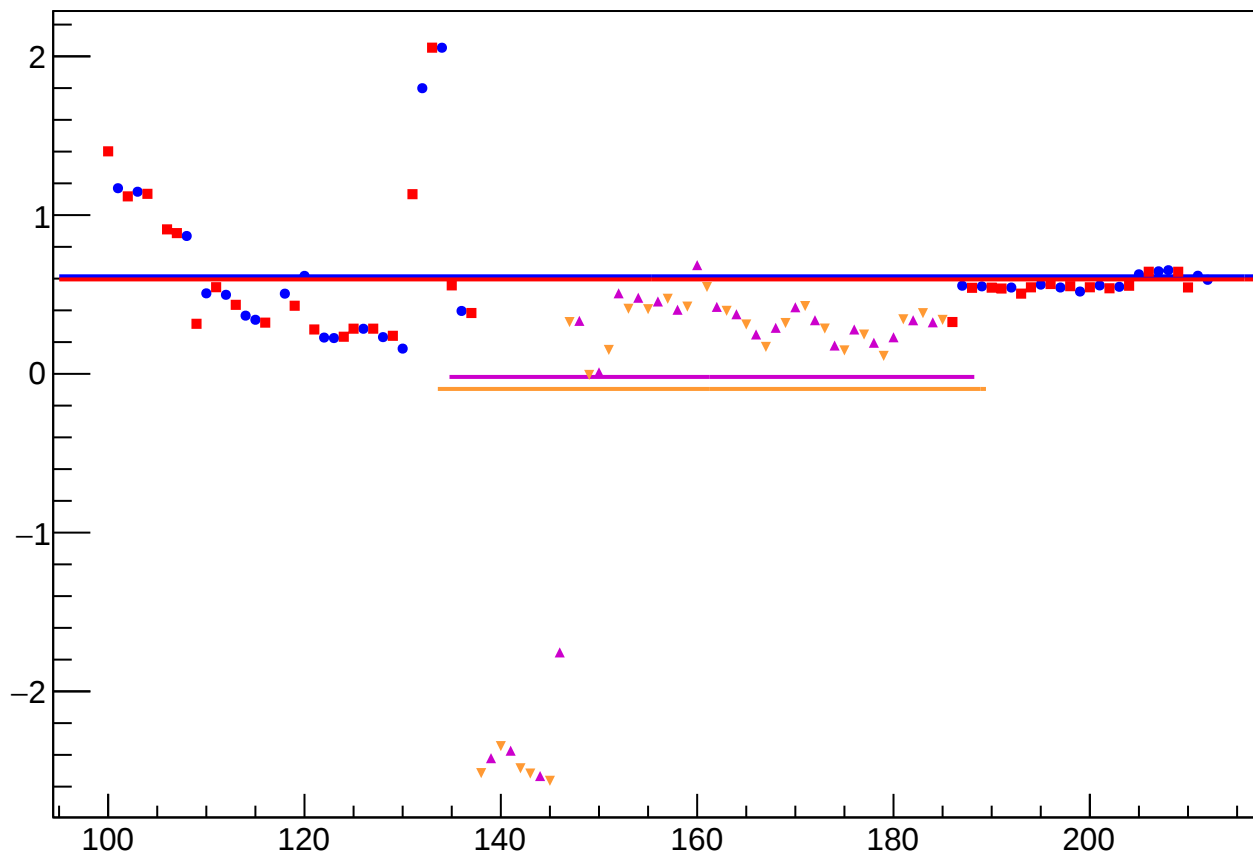
Right: 0.004+/-0.000 χ^2/NDF : 3155004.3/62

In: 0.005+/-0.000 χ^2/NDF :3583538.0/52

Out: 0.005+/-0.000 χ^2/NDF :3922833.5/57

All: 0.005+/-0.000 χ^2/NDF : 7513387.3/110

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.614+/-0.000

χ^2/NDF : 40640268500.4/29

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

Right: 0.604+/-0.000

χ^2/NDF : 87126930239.5/62

Right Out: 0.595+/-0.000

χ^2/NDF : 46301568453.7/32

In: 0.395+/-0.000

χ^2/NDF : 587255187515.4/52

Out: 0.360+/-0.000

χ^2/NDF : 713686331313.7/57

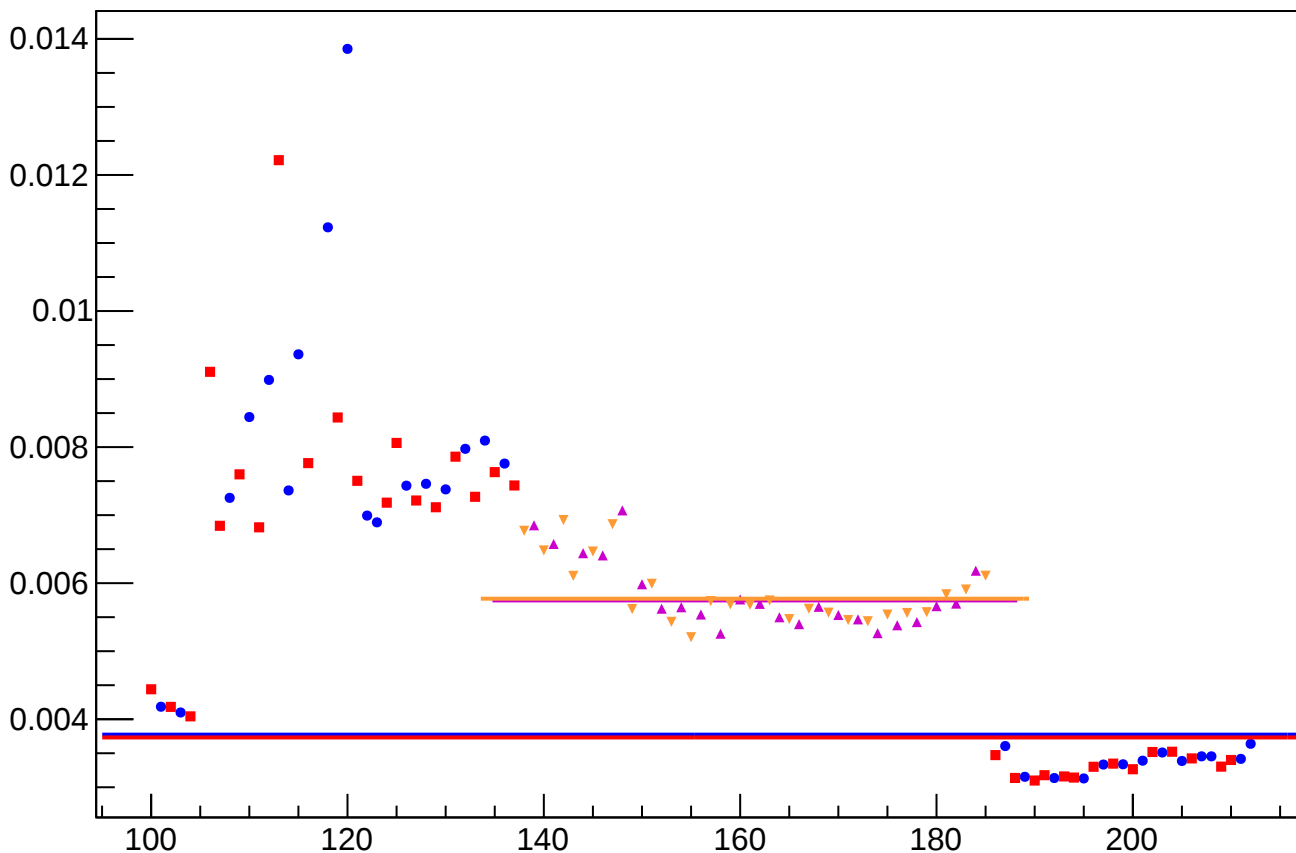
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.377+/-0.000

χ^2/NDF : 1301820852421.7/100

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3145411.2/29

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3193237.2/32

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

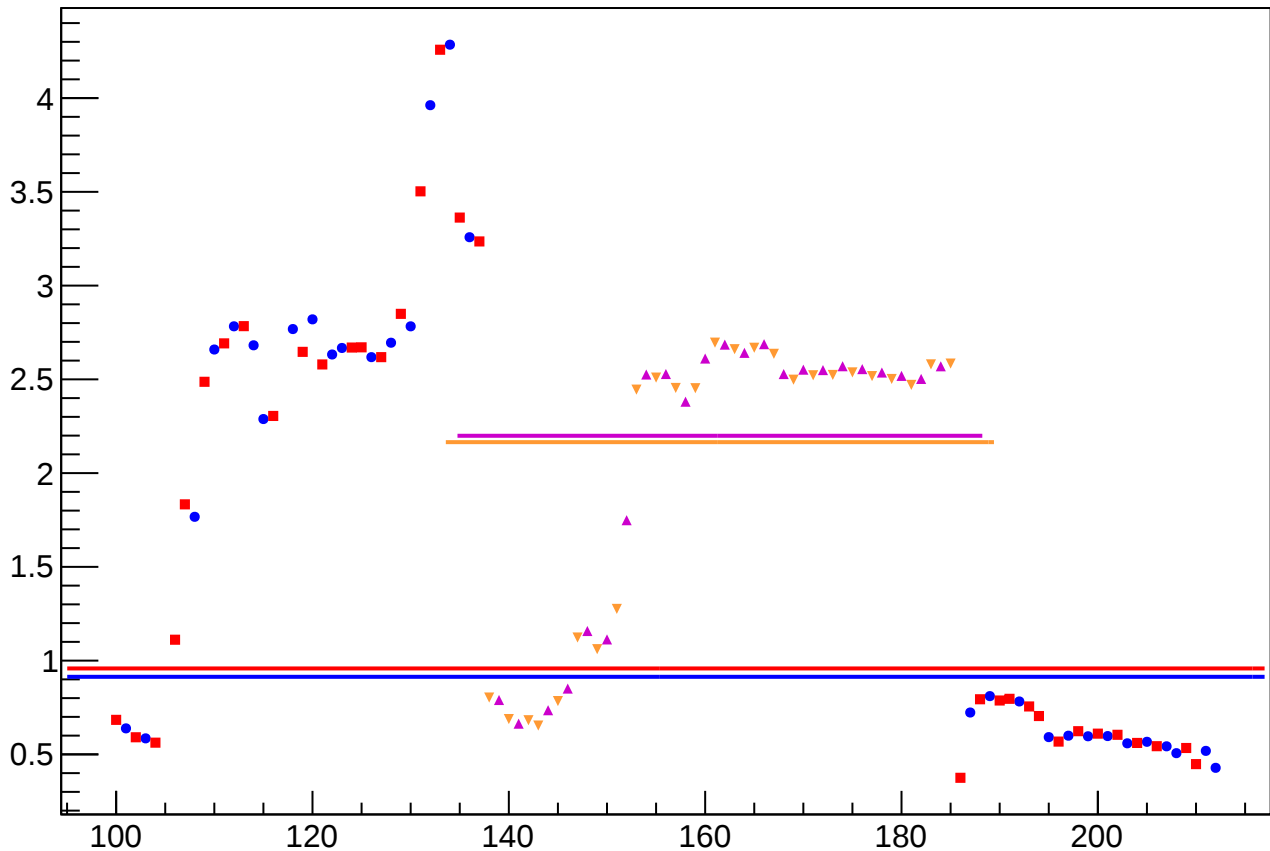
Right: 0.004+/-0.000 χ^2/NDF : 6340281.9/62

In: 0.004+/-0.000 χ^2/NDF :5860373.0/52

Out: 0.004+/-0.000 χ^2/NDF :6200597.9/57

All: 0.004+/-0.000 χ^2/NDF : 12062388.5/110

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.914+/-0.000 χ^2/NDF : 307982621008.9/29

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.958+/-0.000 χ^2/NDF : 353080138695.6/32

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

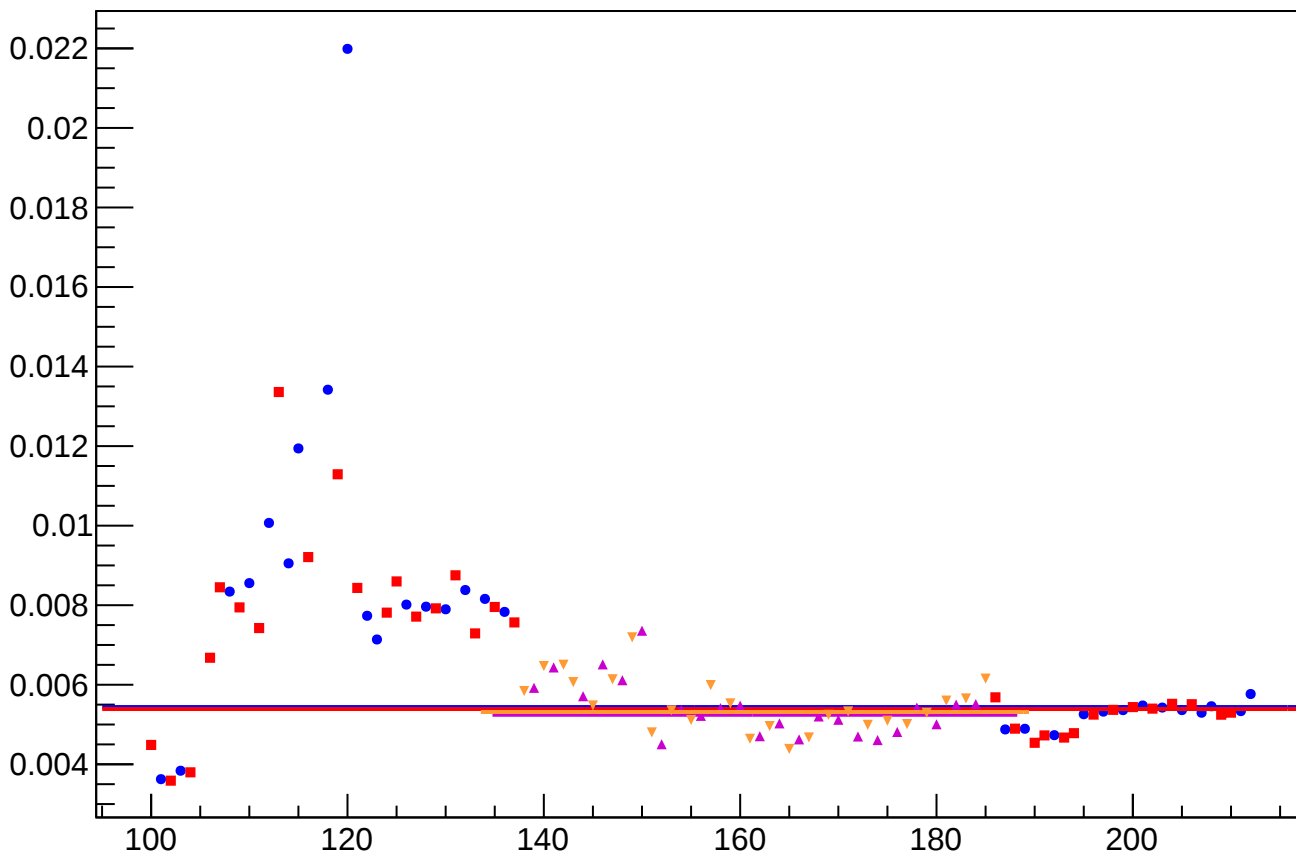
Right: 0.937+/-0.000 χ^2/NDF : 661538885755.7/62

In: 1.624+/-0.000 χ^2/NDF : 984295866539.8/52

Out: 1.613+/-0.000 χ^2/NDF : 1037420272260.3/57

All: 1.618+/-0.000 χ^2/NDF : 2021784191123.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2011526.7/29

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1879208.0/32

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

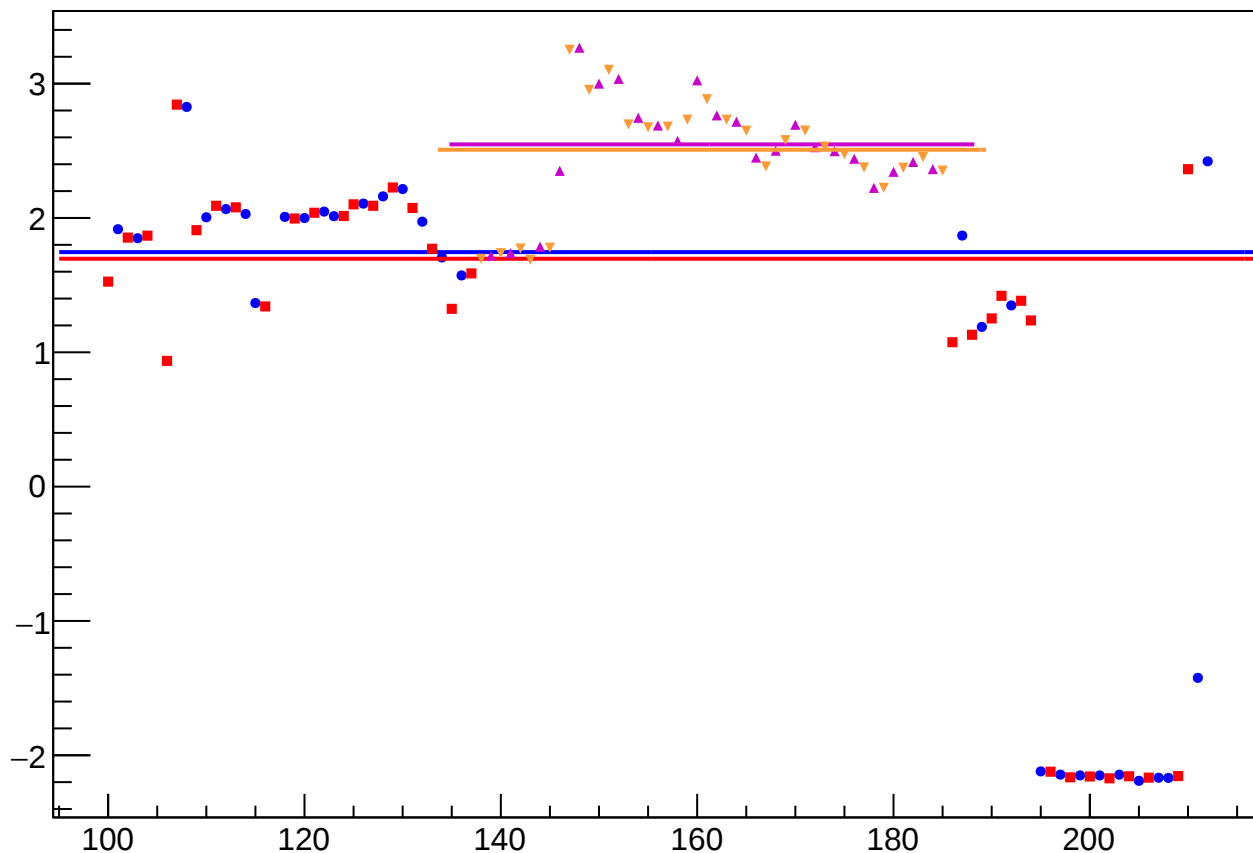
Right: 0.005+/-0.000 χ^2/NDF : 3891879.6/62

In: 0.005+/-0.000 χ^2/NDF :2456526.5/52

Out: 0.005+/-0.000 χ^2/NDF :2281004.8/57

All: 0.005+/-0.000 χ^2/NDF : 4737852.4/110

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.746 $\pm$ 0.000 χ^2 /NDF: 160383320944.5/29

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.696 $\pm$ 0.000 χ^2 /NDF: 141967346986.6/32

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

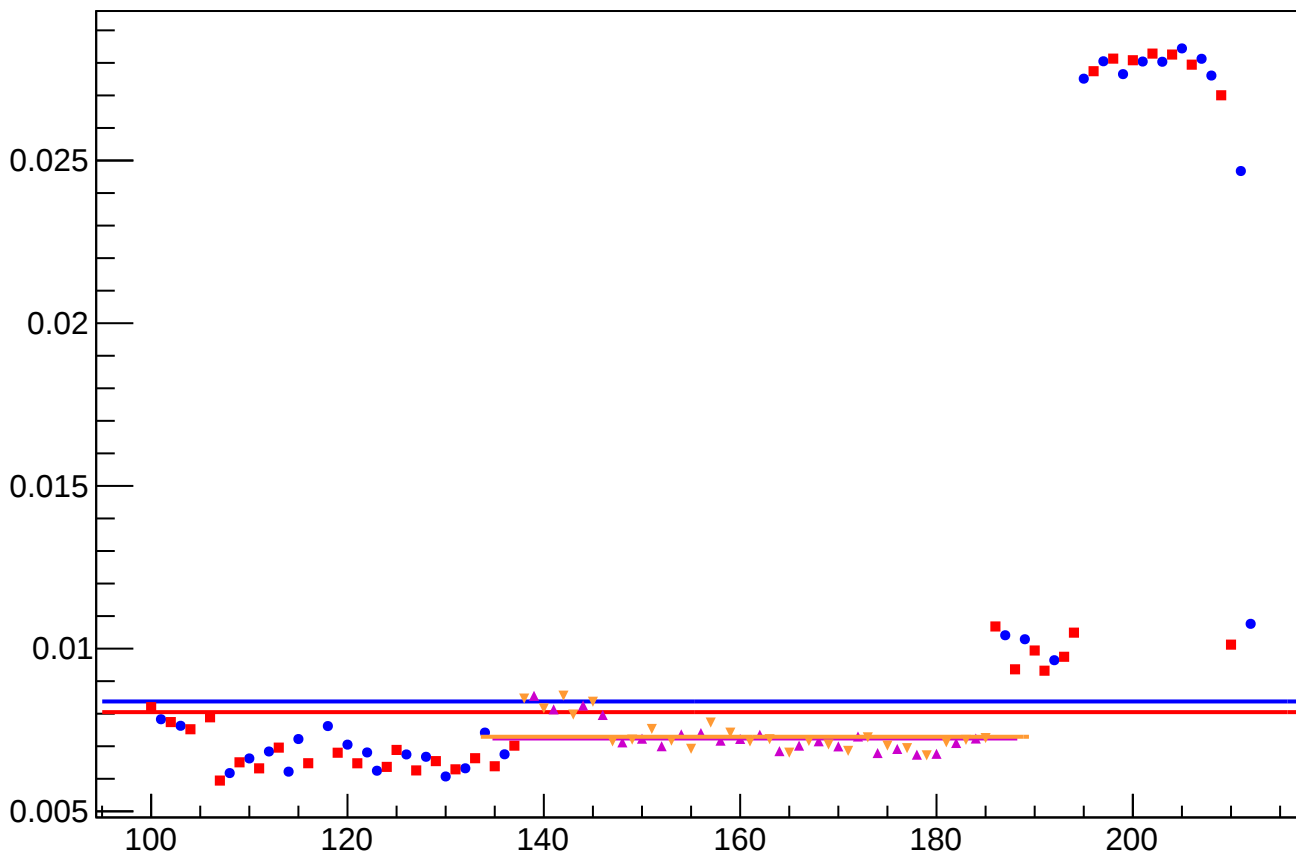
Right: 1.719 $\pm$ 0.000 χ^2 /NDF: 302571291802.6/62

In: 2.271 $\pm$ 0.000 χ^2 /NDF: 276026170674.0/52

Out: 2.202 $\pm$ 0.000 χ^2 /NDF: 275704870591.9/57

All: 2.235 $\pm$ 0.000 χ^2 /NDF: 552924338252.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7586576.8/29

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6313261.6/32

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

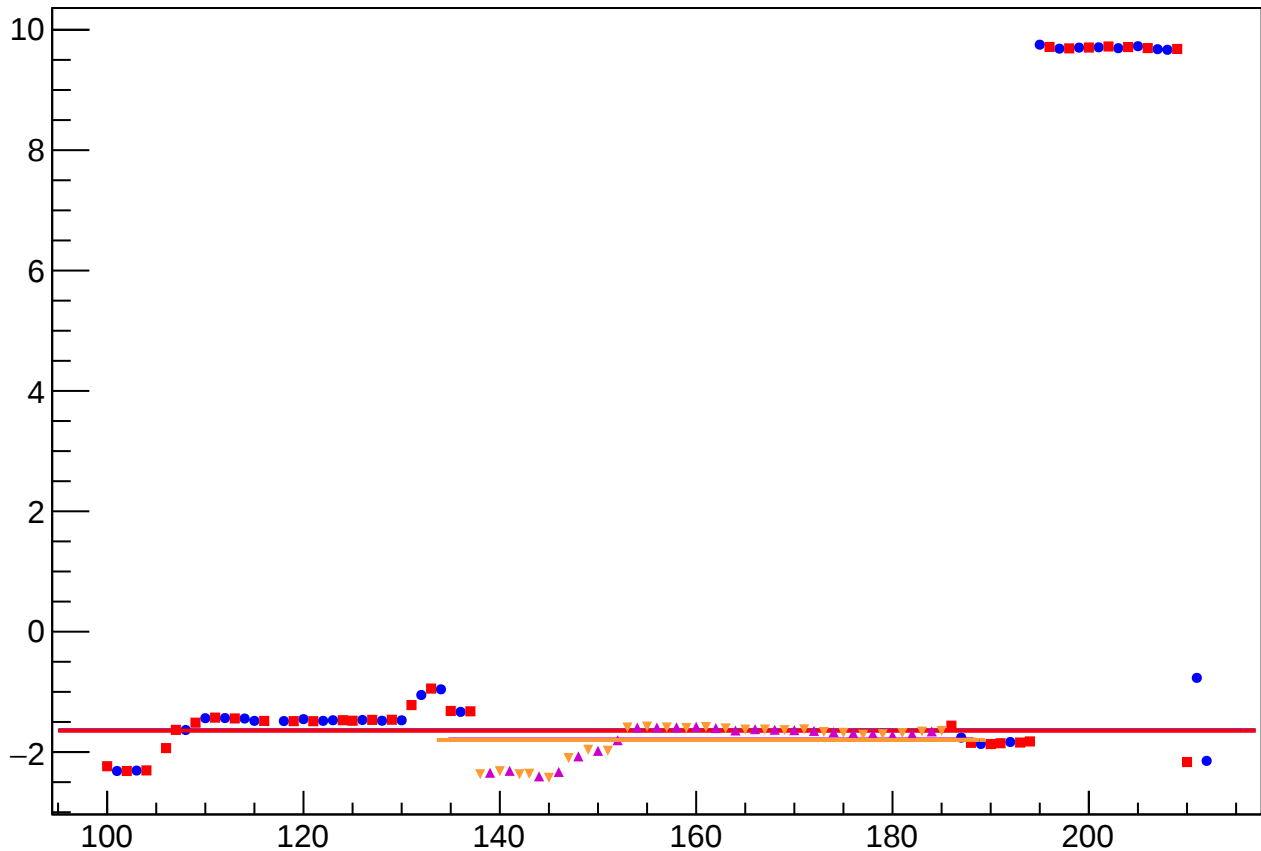
Right: 0.008+/-0.000 χ^2/NDF : 13919346.7/62

In: 0.008+/-0.000 χ^2/NDF :7995002.5/52

Out: 0.008+/-0.000 χ^2/NDF :6595607.3/57

All: 0.008+/-0.000 χ^2/NDF : 14592095.9/110

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.639+/-0.000 χ^2/NDF : 373200047468.0/29

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.644+/-0.000 χ^2/NDF : 352334305624.6/32

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

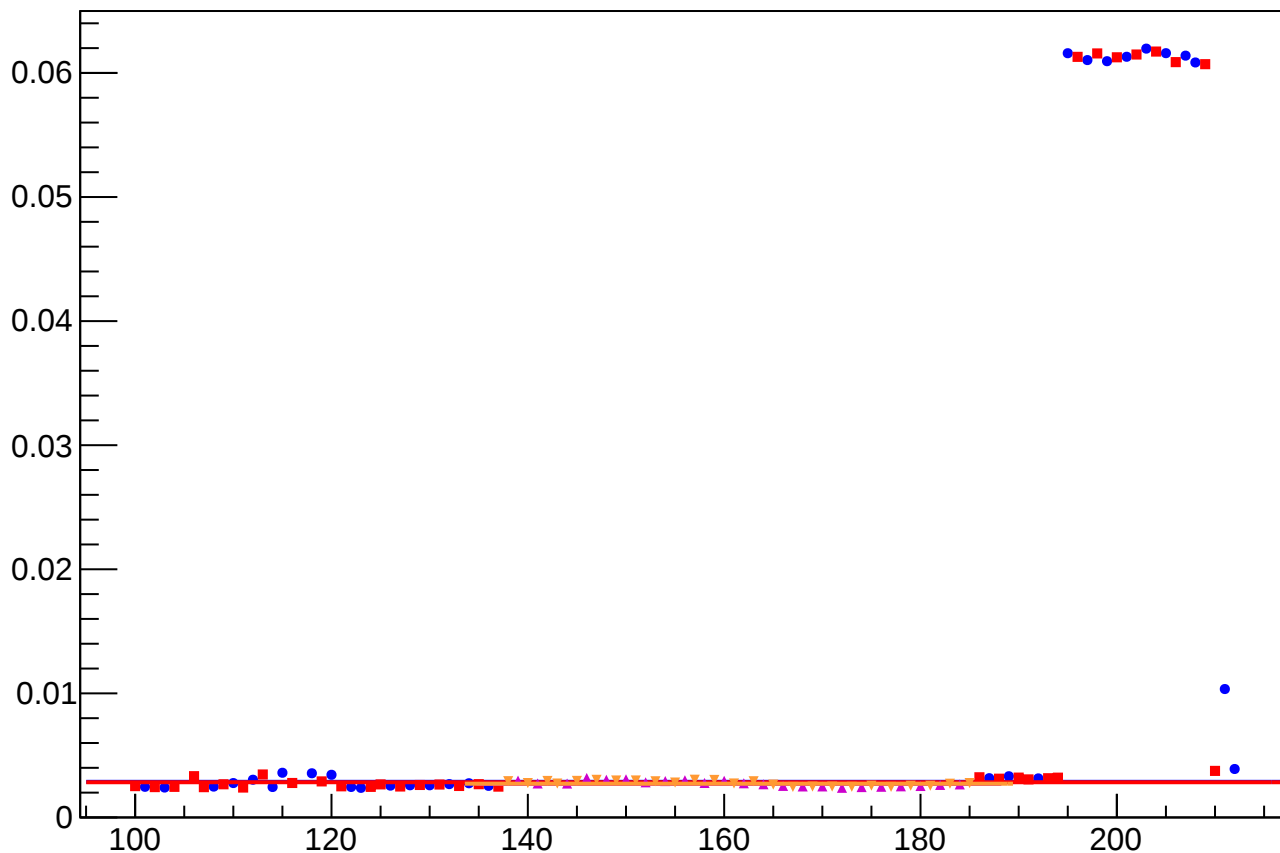
Right: -1.641+/-0.000 χ^2/NDF : 725550244924.1/62

In: -1.741+/-0.000 χ^2/NDF : 549802288613.2/52

Out: -1.743+/-0.000 χ^2/NDF : 558230144640.3/57

All: -1.742+/-0.000 χ^2/NDF : 1108039807515

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 11864808.1/29

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 9999780.3/32

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

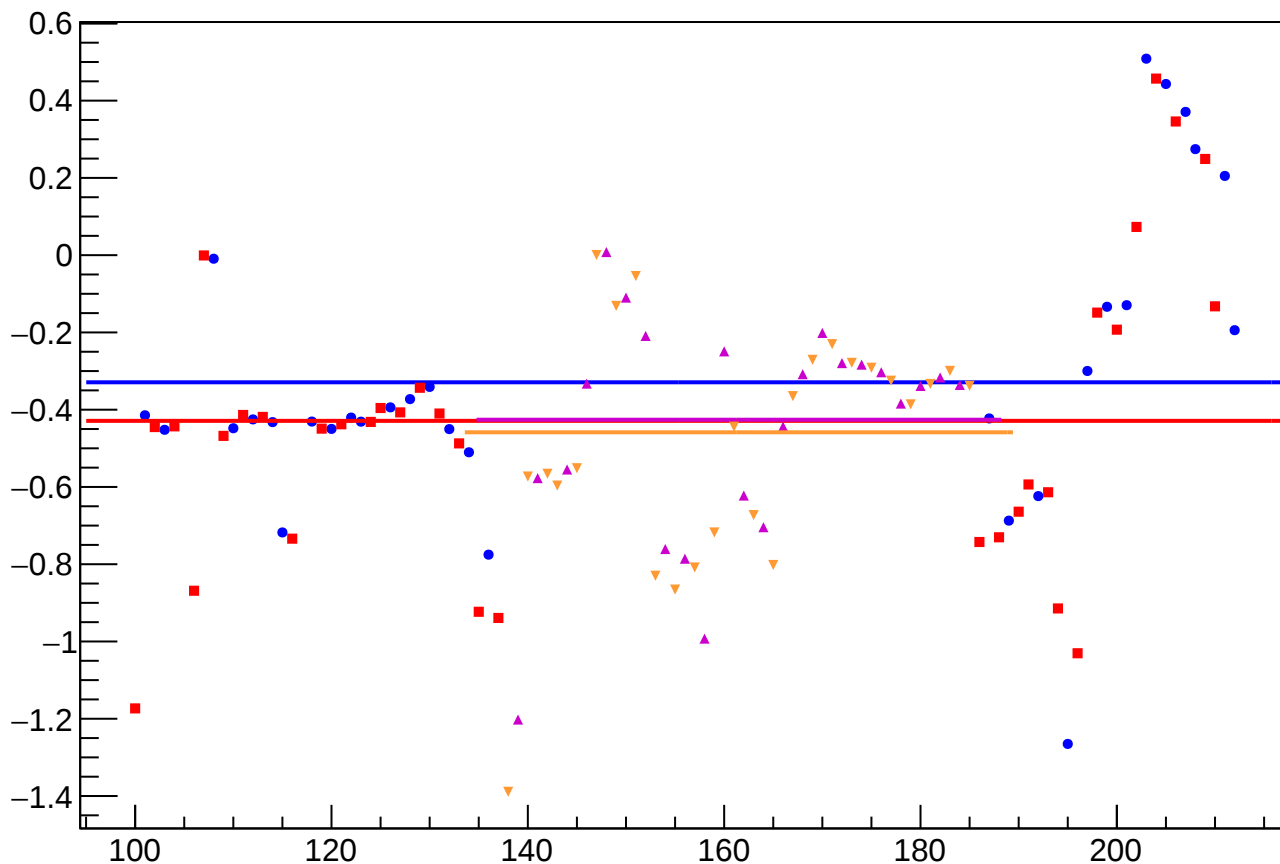
Right: 0.003+/-0.000 χ^2/NDF : 21865944.7/62

In: 0.003+/-0.000 χ^2/NDF :12128233.4/52

Out: 0.003+/-0.000 χ^2/NDF :10224030.7/57

All: 0.003+/-0.000 χ^2/NDF : 22352353.2/110

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.329 ± 0.000 $\chi^2/\text{NDF}: 10813818995.9/29$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.429 ± 0.000 $\chi^2/\text{NDF}: 10156759884.1/32$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

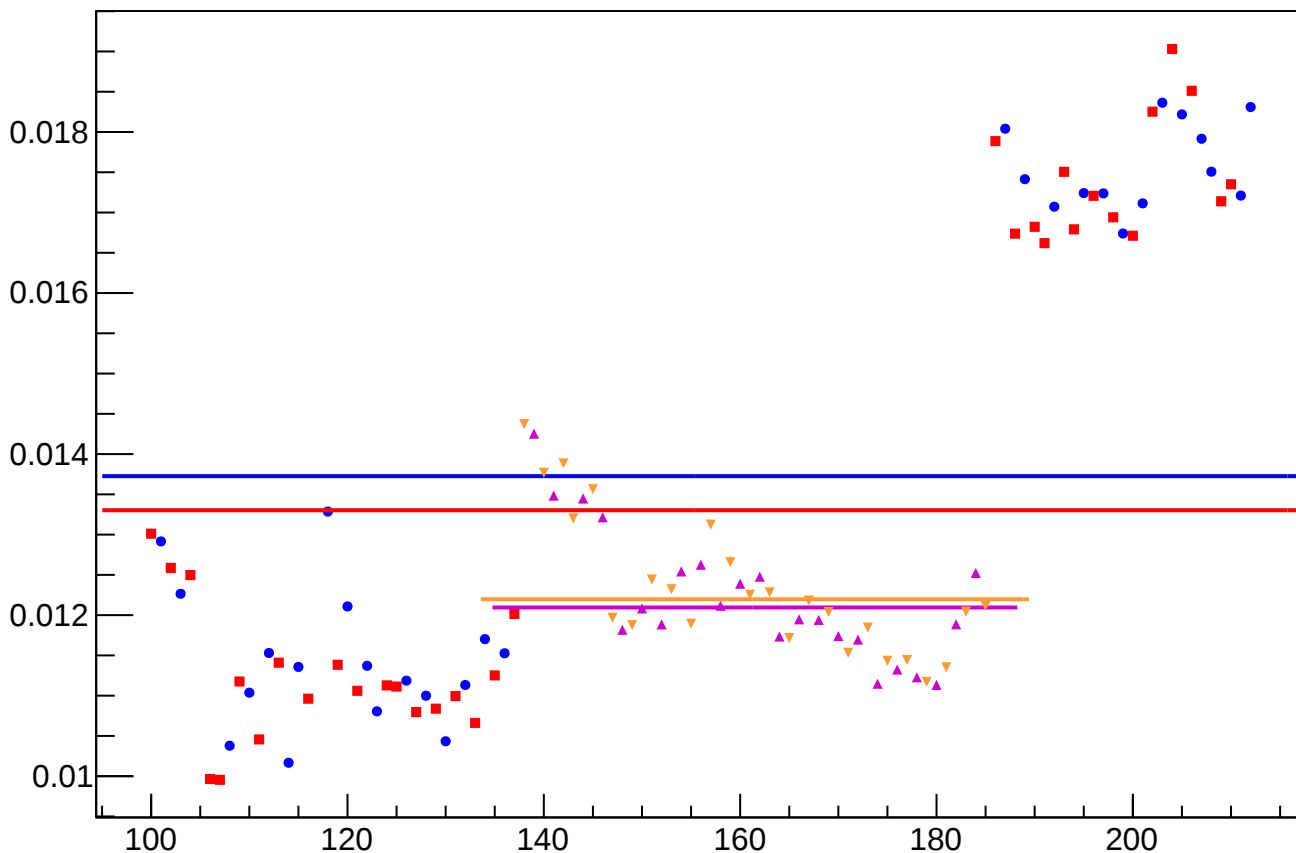
Right: -0.381 ± 0.000 $\chi^2/\text{NDF}: 21381493486.3/62$

In: -0.386 ± 0.000 $\chi^2/\text{NDF}: 19674016385.5/52$

Out: -0.446 ± 0.000 $\chi^2/\text{NDF}: 20117098852.0/57$

All: -0.417 ± 0.000 $\chi^2/\text{NDF}: 40143979427.8/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1424361.3/29

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1627953.3/32

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

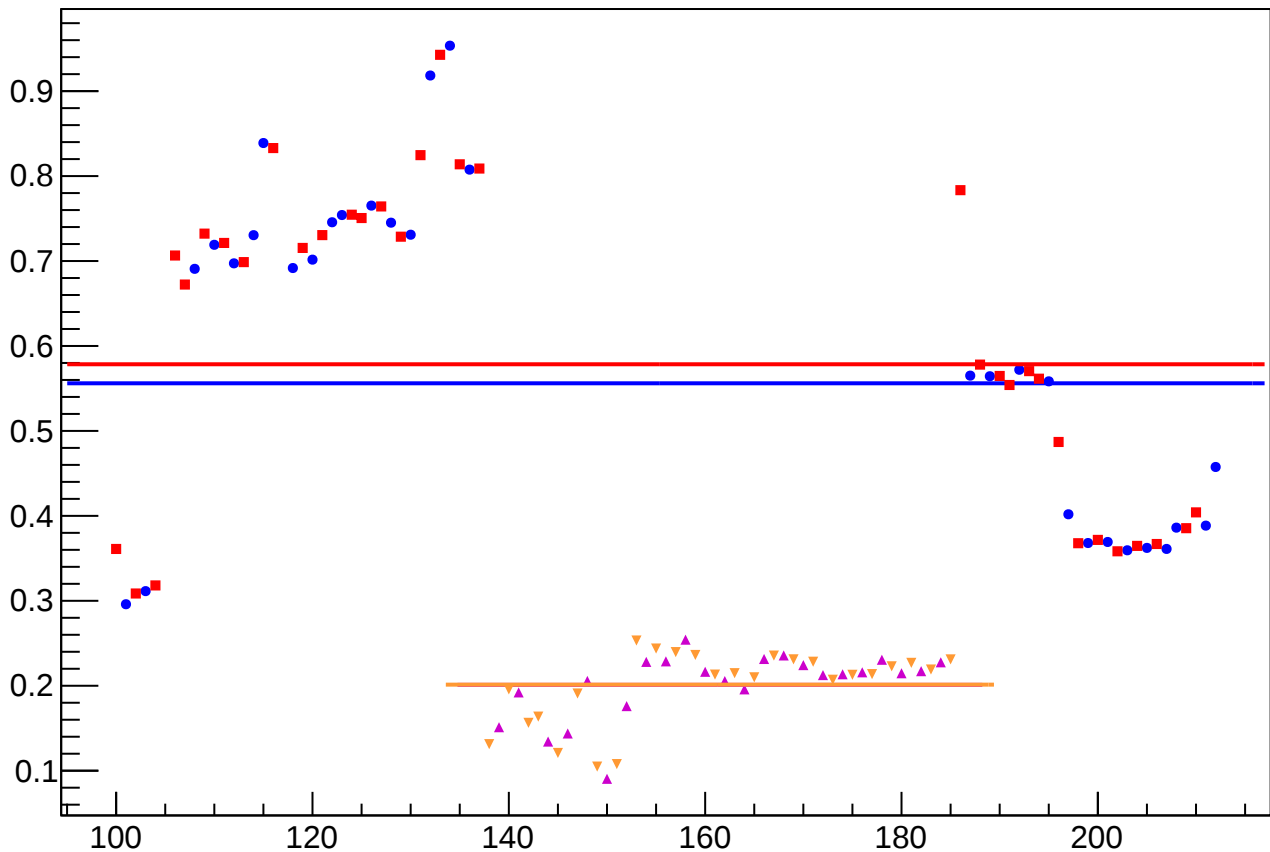
Right: 0.014+/-0.000 χ^2/NDF : 3067093.5/62

In: 0.013+/-0.000 χ^2/NDF :1798787.6/52

Out: 0.013+/-0.000 χ^2/NDF :1892088.0/57

All: 0.013+/-0.000 χ^2/NDF : 3692756.5/110

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.556+/-0.000 χ^2/NDF : 76086227709.3/29

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.578+/-0.000 χ^2/NDF : 73392302853.0/32

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

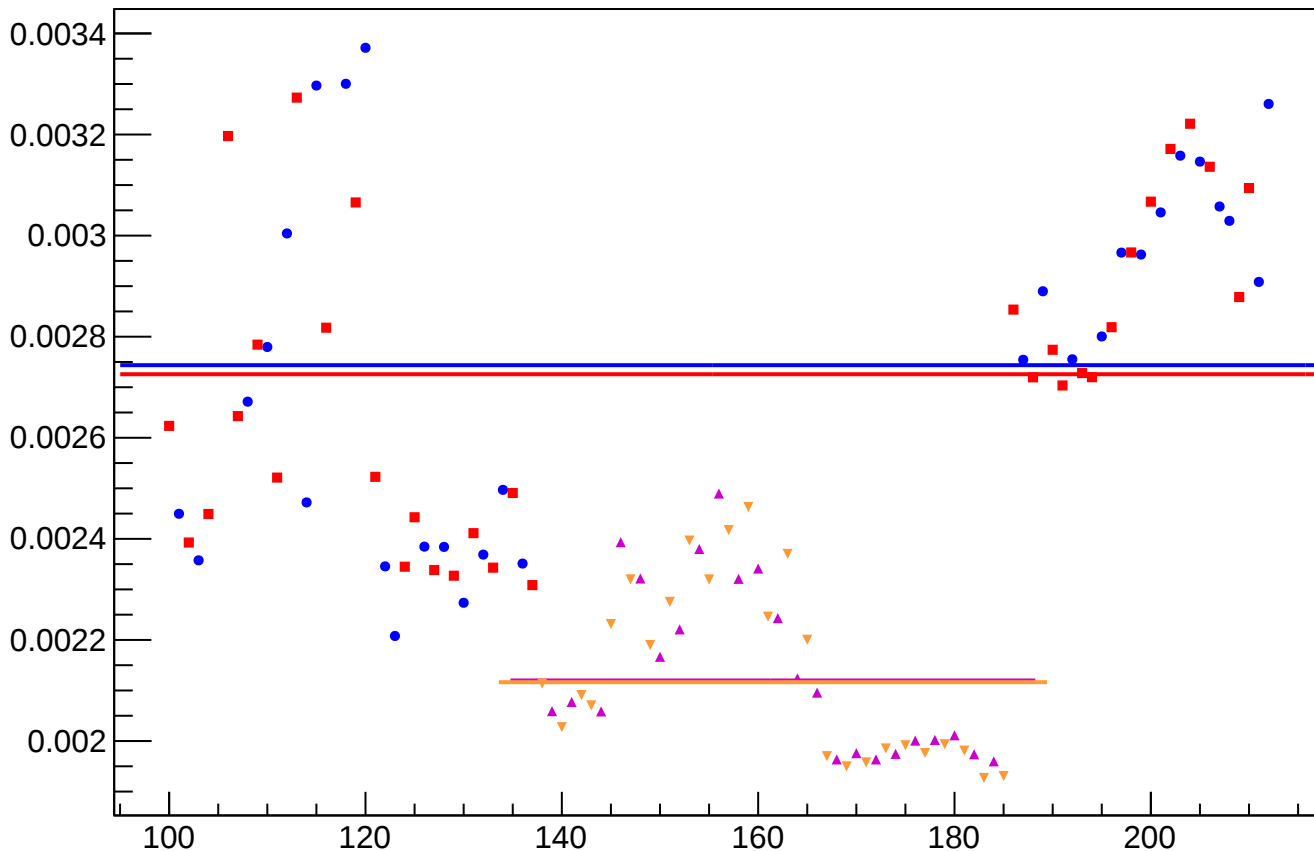
Right: 0.568+/-0.000 χ^2/NDF : 149999475594.1/62

In: 0.324+/-0.000 χ^2/NDF : 248598386833.0/52

Out: 0.331+/-0.000 χ^2/NDF : 278793115349.5/57

All: 0.328+/-0.000 χ^2/NDF : 527531283181.0

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 445085.7/29

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 348158.4/32

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

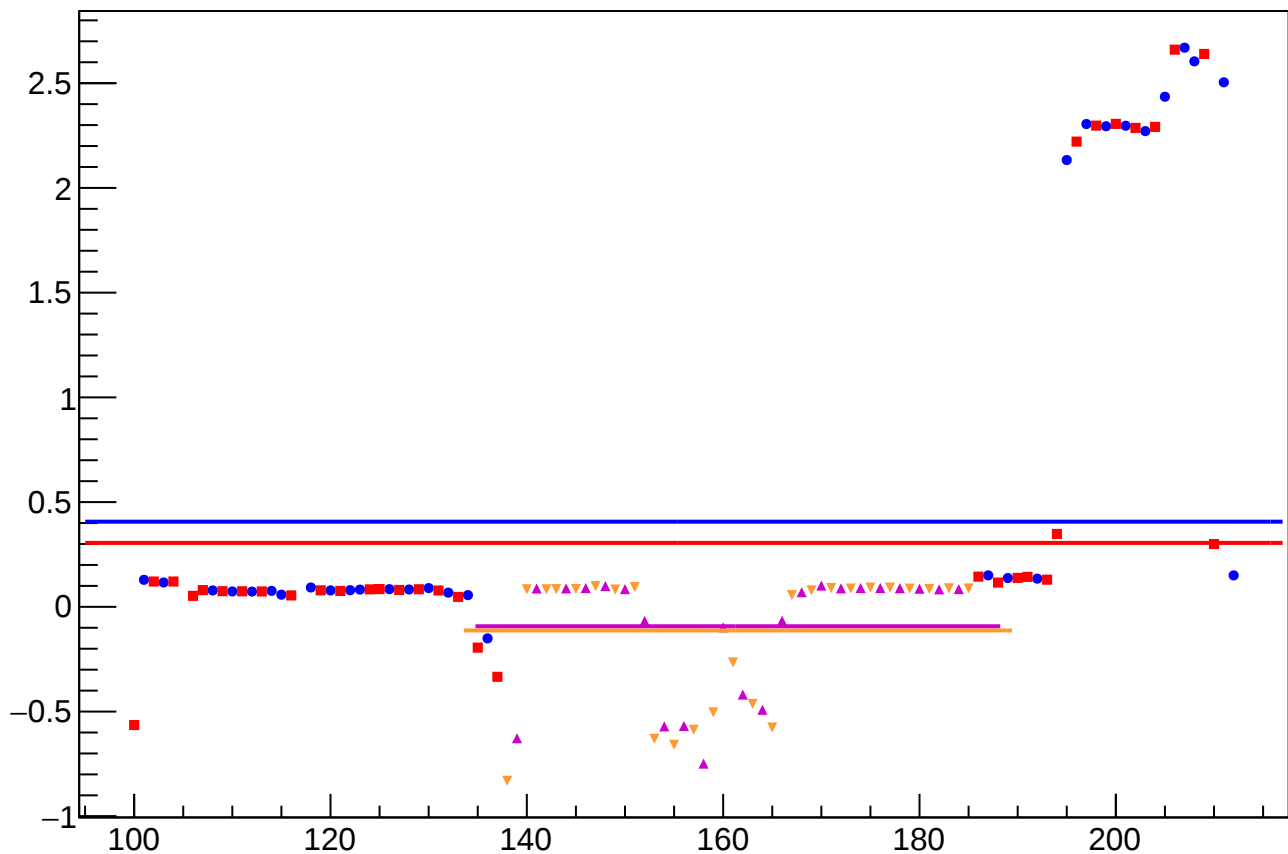
Right: 0.003+/-0.000 χ^2/NDF : 793911.8/62

In: 0.002+/-0.000 χ^2/NDF :1664733.1/52

Out: 0.002+/-0.000 χ^2/NDF :1607930.5/57

All: 0.002+/-0.000 χ^2/NDF : 3273297.5/110

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.407+/-0.000

χ^2/NDF : 61099689478.9/29

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.352+/-0.000

χ^2/NDF : 113426473094.5/62

Right Out: 0.305+/-0.000

χ^2/NDF : 51835280056.1/32

In: 0.103+/-0.000

χ^2/NDF : 85677140828.0/52

Out: 0.061+/-0.000

χ^2/NDF : 76053309774.2/57

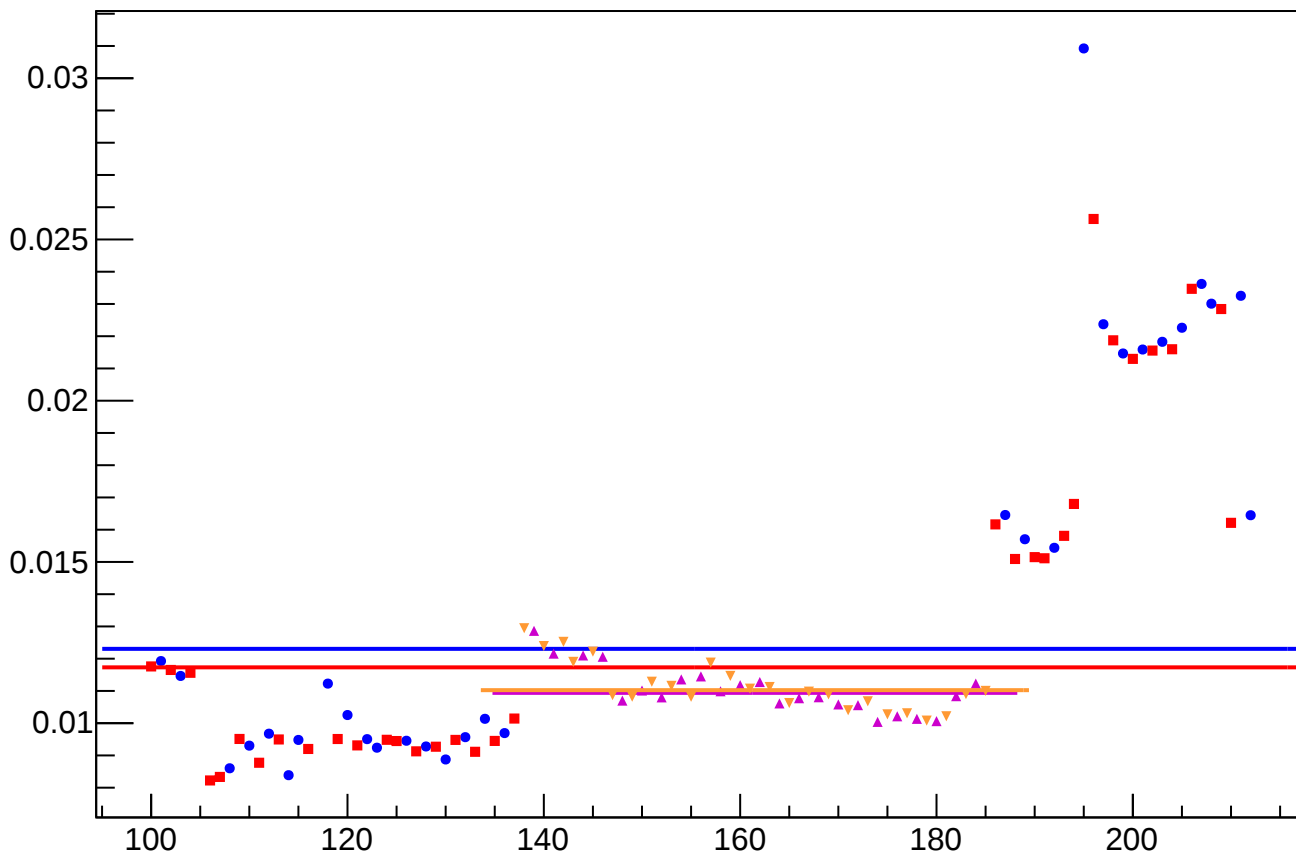
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.081+/-0.000

χ^2/NDF : 161931412180.1

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 4288205.4/29

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 3908433.6/32

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

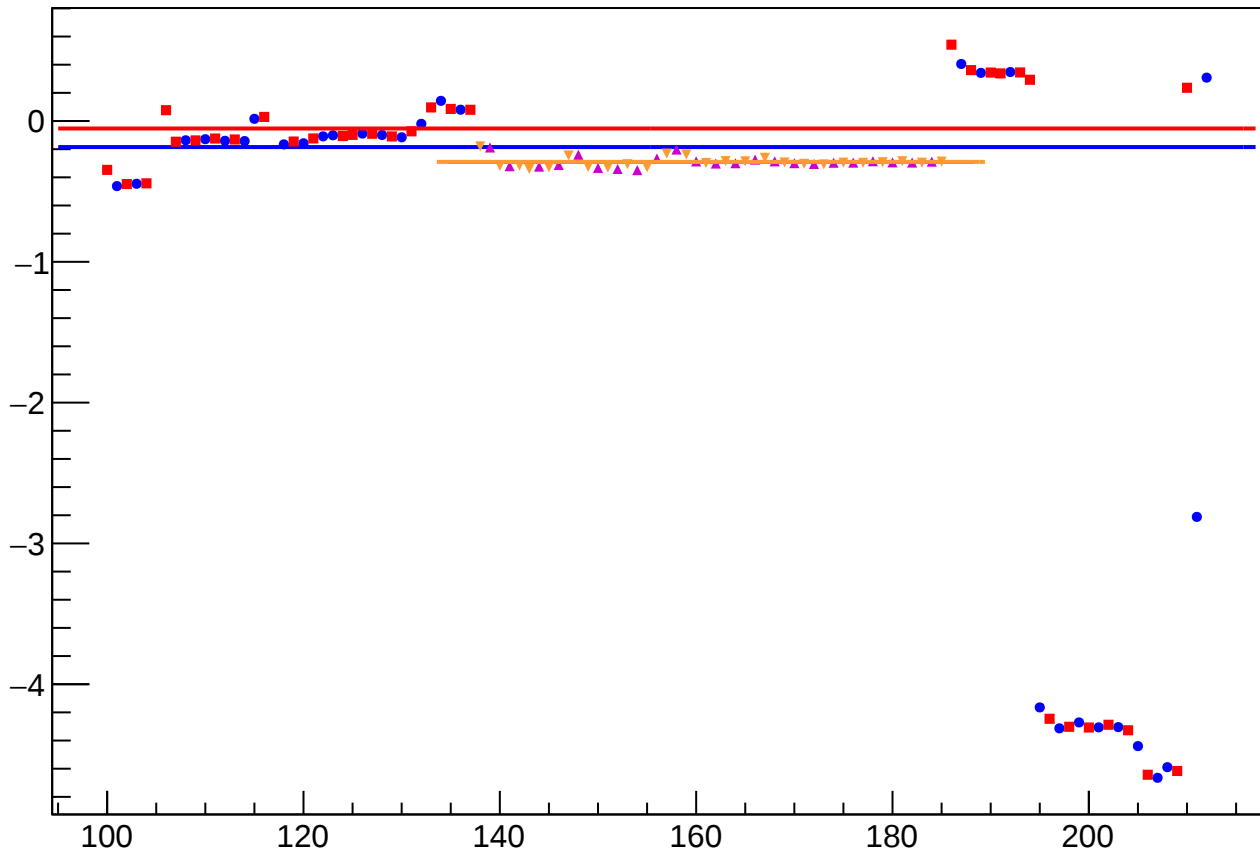
Right: 0.012+/-0.000 χ^2/NDF : 8228175.6/62

In: 0.011+/-0.000 χ^2/NDF :4619165.4/52

Out: 0.011+/-0.000 χ^2/NDF :4110344.9/57

All: 0.011+/-0.000 χ^2/NDF : 8735260.4/110

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.185+/-0.000

χ^2/NDF : 367438273163.8/29

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: -0.113+/-0.000

χ^2/NDF : 709084261706.4/62

Right Out: -0.053+/-0.000

χ^2/NDF : 337171318817.8/32

In: -0.272+/-0.000

χ^2/NDF : 374915185049.4/52

Out: -0.244+/-0.000

χ^2/NDF : 365818225328.2/57

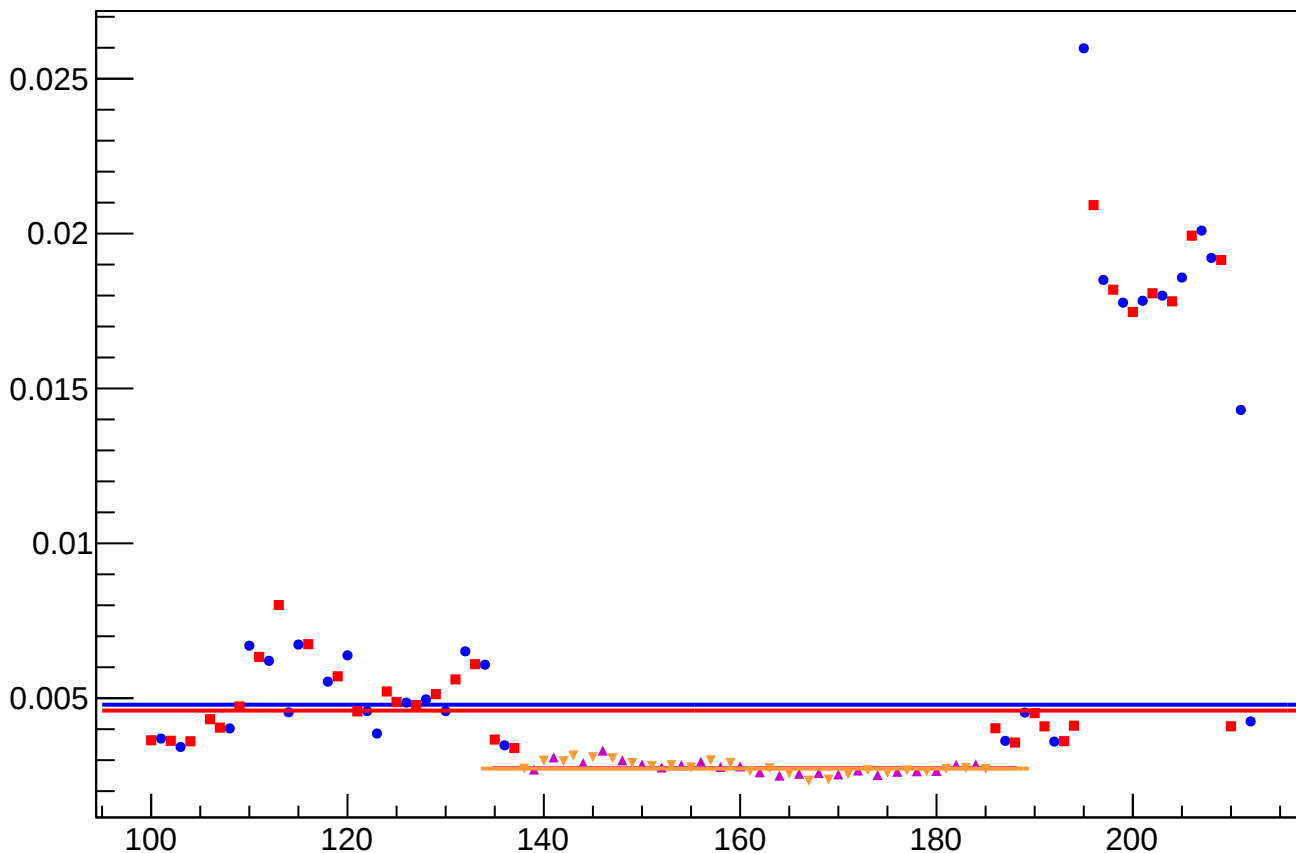
Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

All: -0.258+/-0.000

χ^2/NDF : 741839881008.5

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8513099.9/29

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6956005.8/32

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

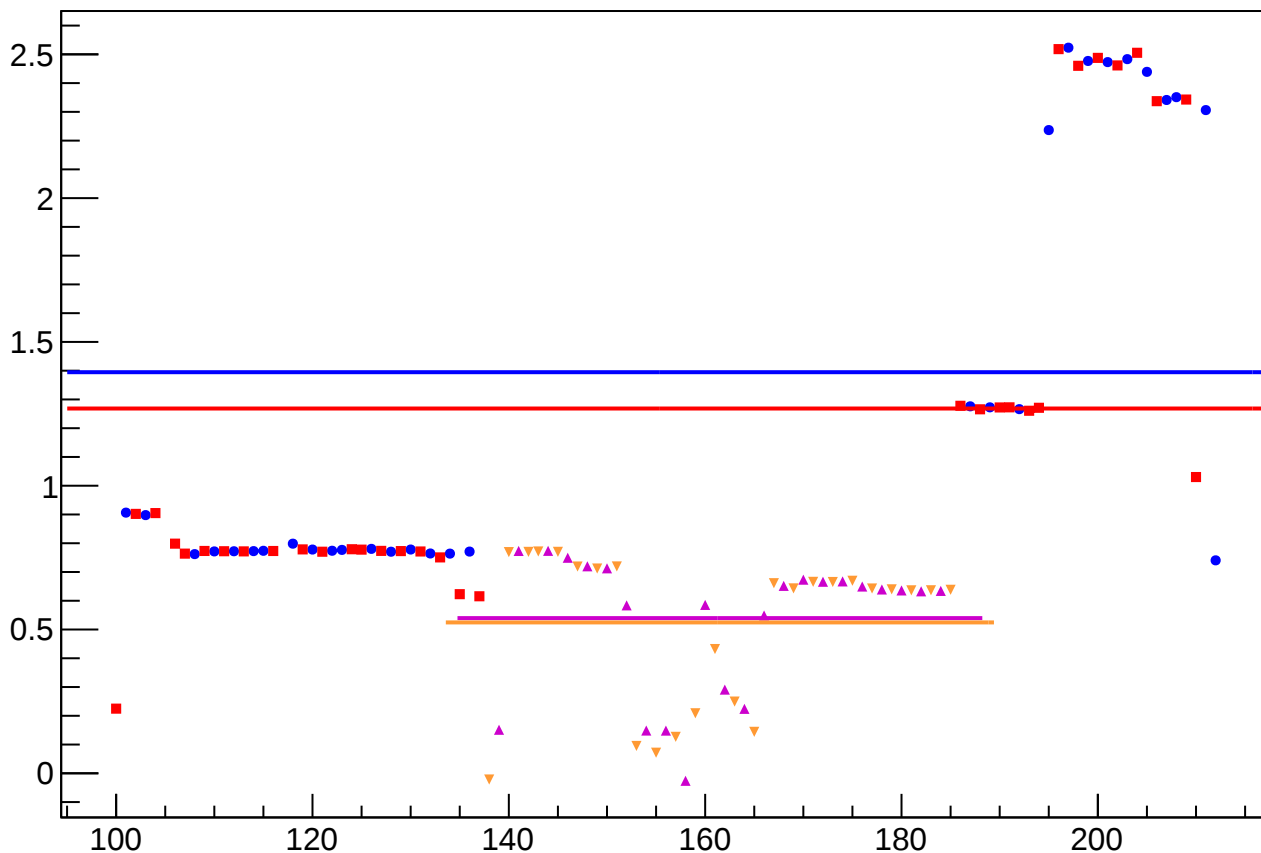
Right: 0.005+/-0.000 χ^2/NDF : 15487656.9/62

In: 0.003+/-0.000 χ^2/NDF :11907695.6/52

Out: 0.003+/-0.000 χ^2/NDF :10373072.2/57

All: 0.003+/-0.000 χ^2/NDF : 22281091.6/110

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.395 $\pm$ 0.000 χ^2/NDF : 57350464726.0/29

Left Out: 0.525 $\pm$ 0.000 χ^2/NDF : 9623503169.9/24

Right Out: 1.268 $\pm$ 0.000 χ^2/NDF : 53281733968.2/32

Left In: 0.540 $\pm$ 0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532 $\pm$ 0.000 χ^2/NDF : 17500739852.2/47

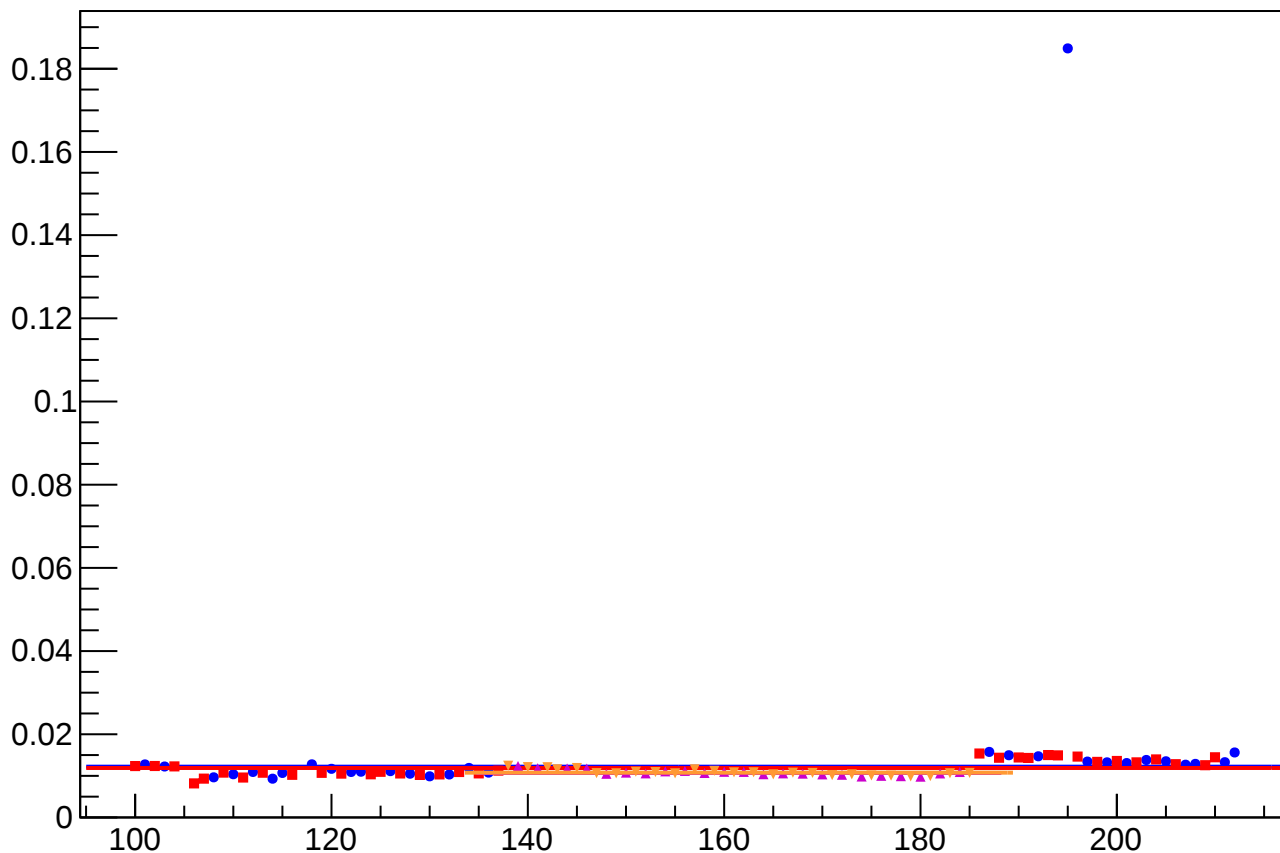
Right: 1.328 $\pm$ 0.000 χ^2/NDF : 111448809539.6/62

In: 0.882 $\pm$ 0.000 χ^2/NDF : 107974469649.6/52

Out: 0.833 $\pm$ 0.000 χ^2/NDF : 97830014802.2/57

All: 0.857 $\pm$ 0.000 χ^2/NDF : 206115302924.6

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1979071.2/29

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 769927.3/32

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

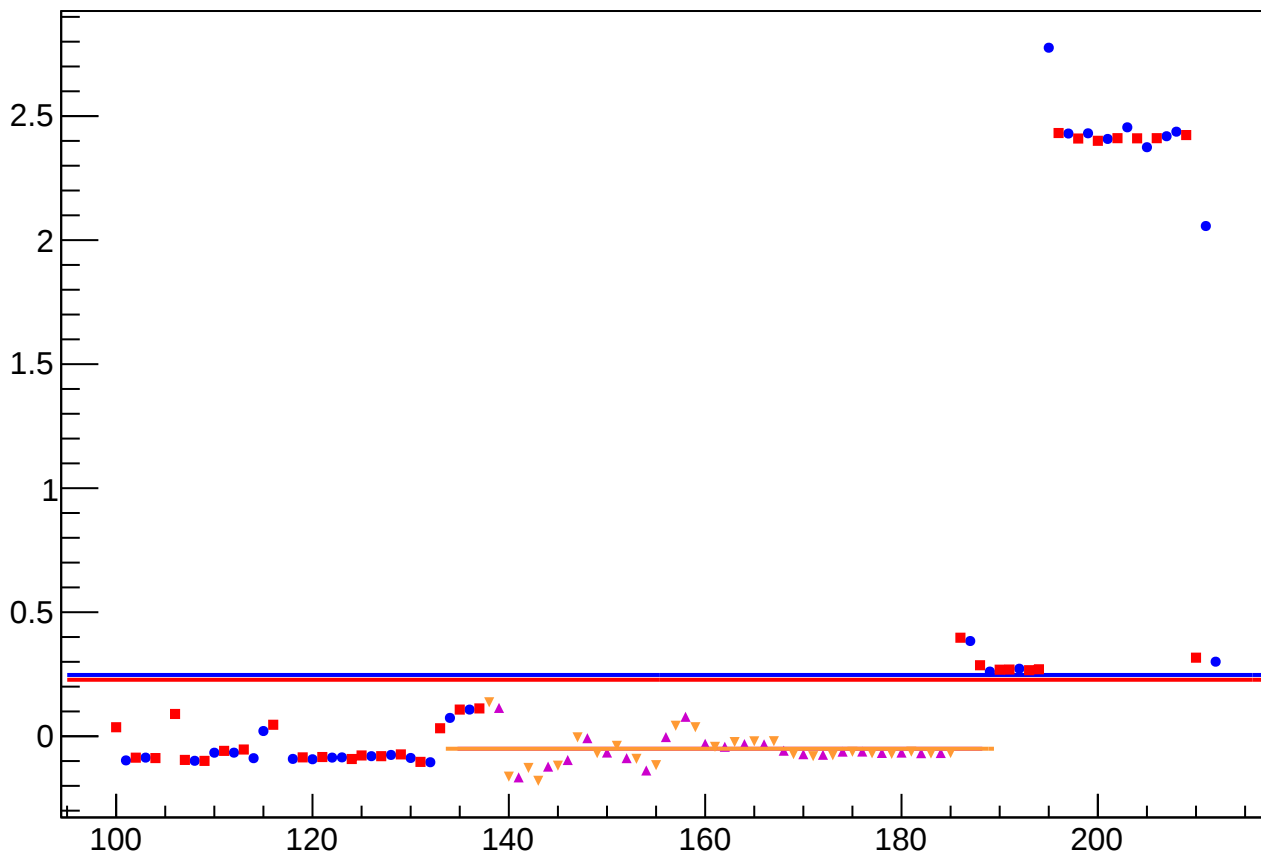
Right: 0.012+/-0.000 χ^2/NDF : 2758963.2/62

In: 0.011+/-0.000 χ^2/NDF :2366341.1/52

Out: 0.011+/-0.000 χ^2/NDF :1061111.0/57

All: 0.011+/-0.000 χ^2/NDF : 3428468.7/110

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.247+/-0.000

χ^2/NDF : 195457088989.9/29

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.237+/-0.000

χ^2/NDF : 355237431282.4/62

Right Out: 0.228+/-0.000

χ^2/NDF : 159691740741.1/32

In: 0.009+/-0.000

χ^2/NDF : 233186506328.7/52

Out: 0.007+/-0.000

χ^2/NDF : 197838281474.7/57

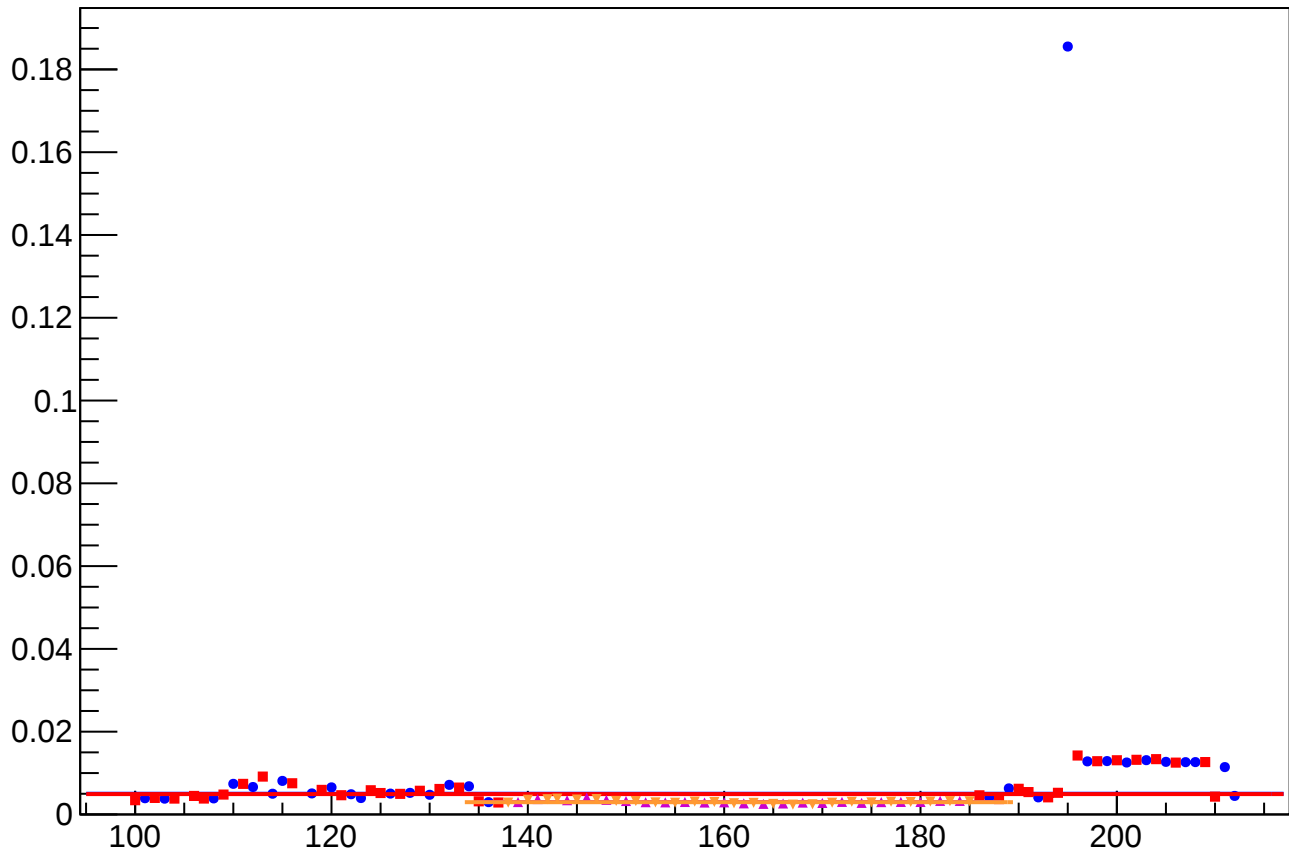
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: 0.008+/-0.000

χ^2/NDF : 431030155517.9

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7298824.5/29

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5121938.9/32

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

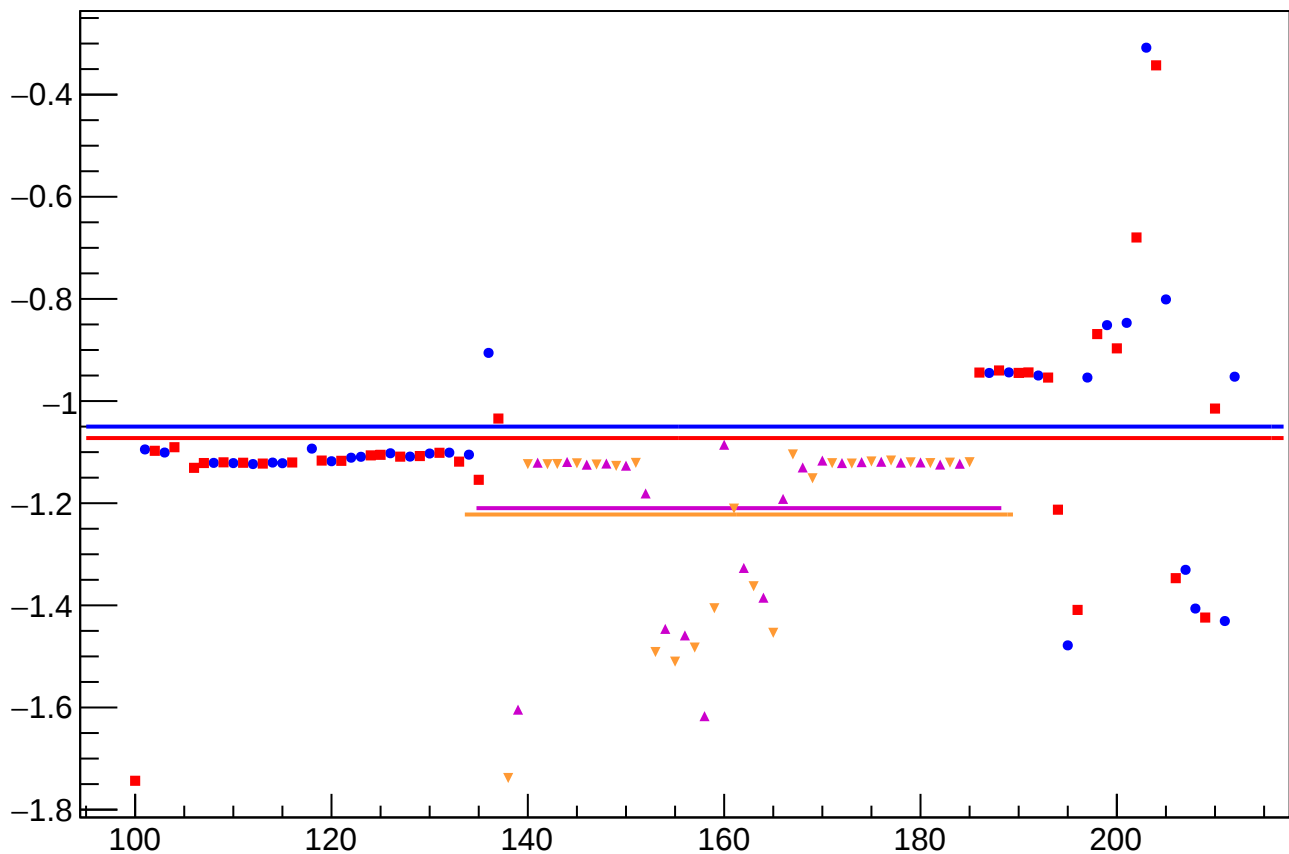
Right: 0.005+/-0.000 χ^2/NDF : 12423967.4/62

In: 0.003+/-0.000 χ^2/NDF : 10464747.8/52

Out: 0.003+/-0.000 χ^2/NDF : 8664264.8/57

All: 0.003+/-0.000 χ^2/NDF : 19132338.0/110

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.050+/-0.000 χ^2/NDF : 5634058050.2/29

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.072+/-0.000 χ^2/NDF : 4647579802.5/32

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

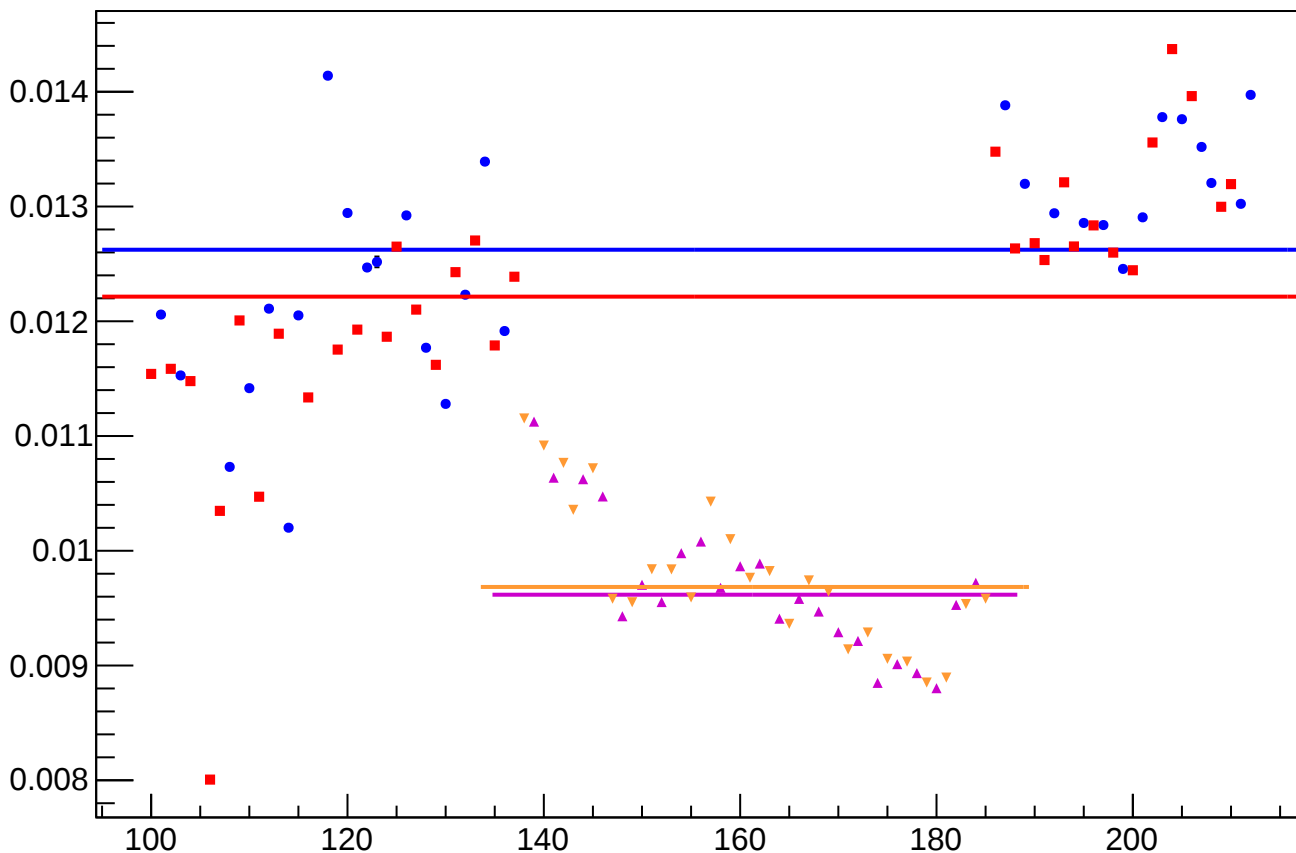
Right: -1.062+/-0.000 χ^2/NDF : 10307252571.9/62

In: -1.154+/-0.000 χ^2/NDF : 11745260940.2/52

Out: -1.168+/-0.000 χ^2/NDF : 11459228082.1/57

All: -1.161+/-0.000 χ^2/NDF : 23232550986.0/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 148266.1/29

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 333535.1/32

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

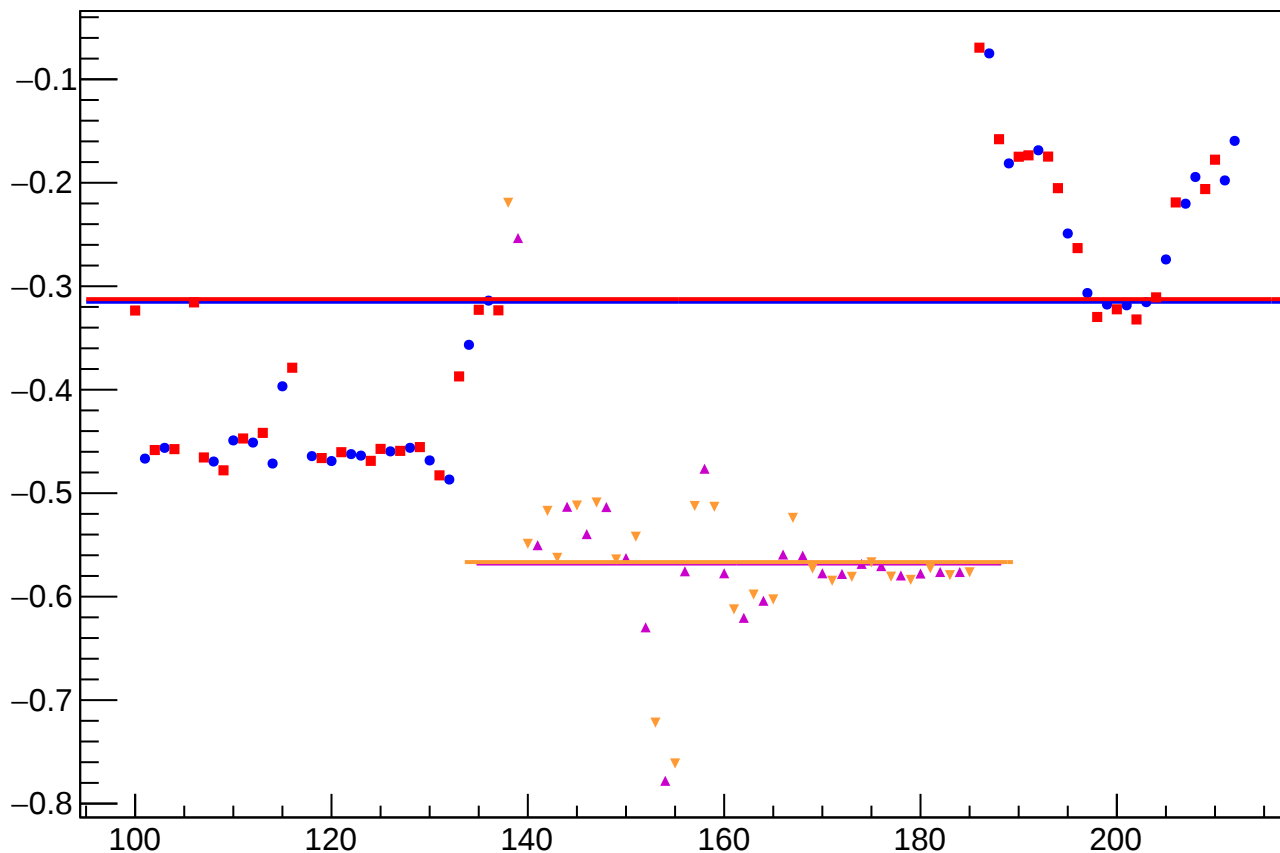
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 498784.9/62

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1408584.0/52

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1343910.3/57

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 2753722.6/110

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.315+/-0.000 χ^2/NDF : 11930811602.4/29

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.312+/-0.000 χ^2/NDF : 12932458928.1/32

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

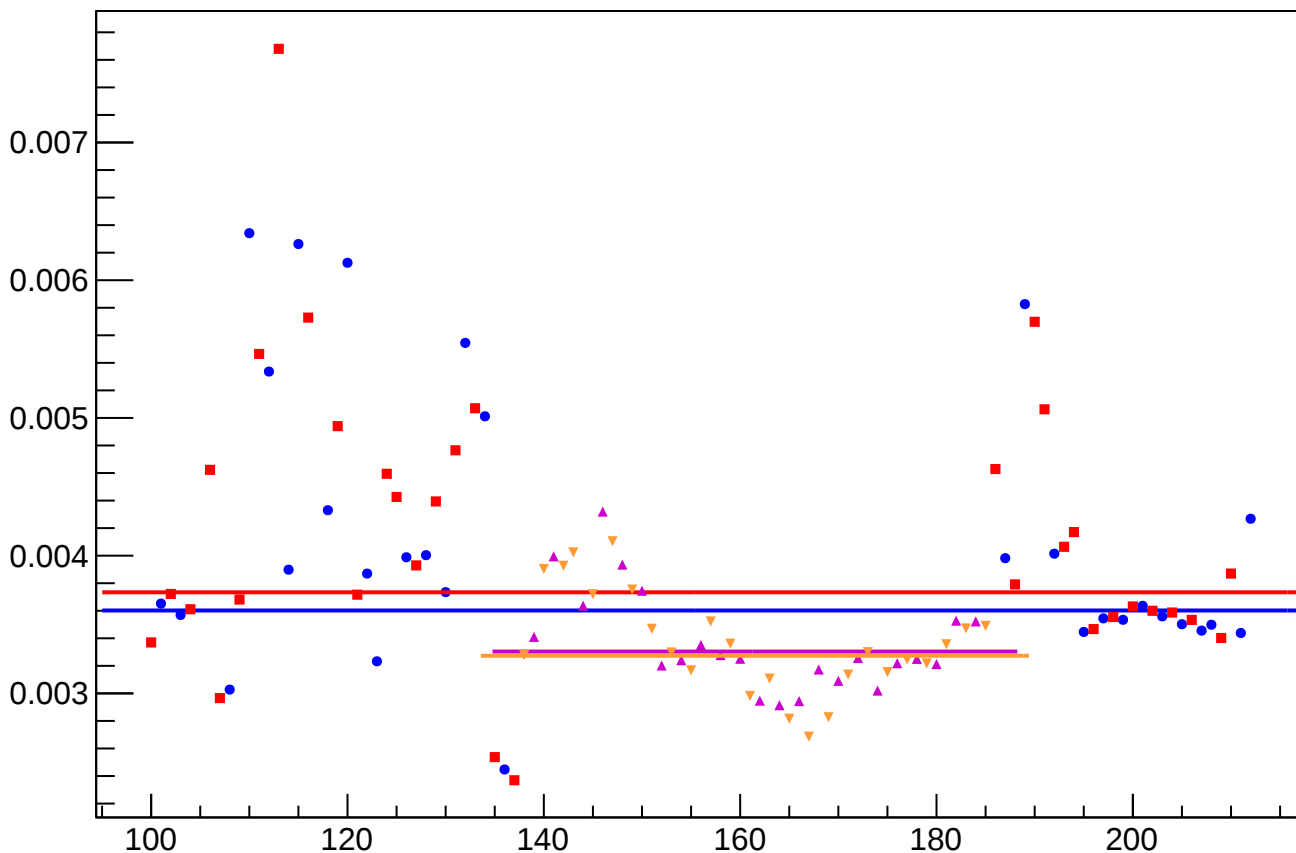
Right: -0.314+/-0.000 χ^2/NDF : 24866675531.5/62

In: -0.460+/-0.000 χ^2/NDF : 62798051705.9/52

Out: -0.465+/-0.000 χ^2/NDF : 67562145563.9/57

All: -0.463+/-0.000 χ^2/NDF : 130395850810.4

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 ± 0.000 $\chi^2/\text{NDF}: 1036011.2/29$

Left Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 394865.4/24$

Right Out: 0.004 ± 0.000 $\chi^2/\text{NDF}: 1086990.2/32$

Left In: 0.003 ± 0.000 $\chi^2/\text{NDF}: 286064.1/22$

Left: 0.003 ± 0.000 $\chi^2/\text{NDF}: 682340.4/47$

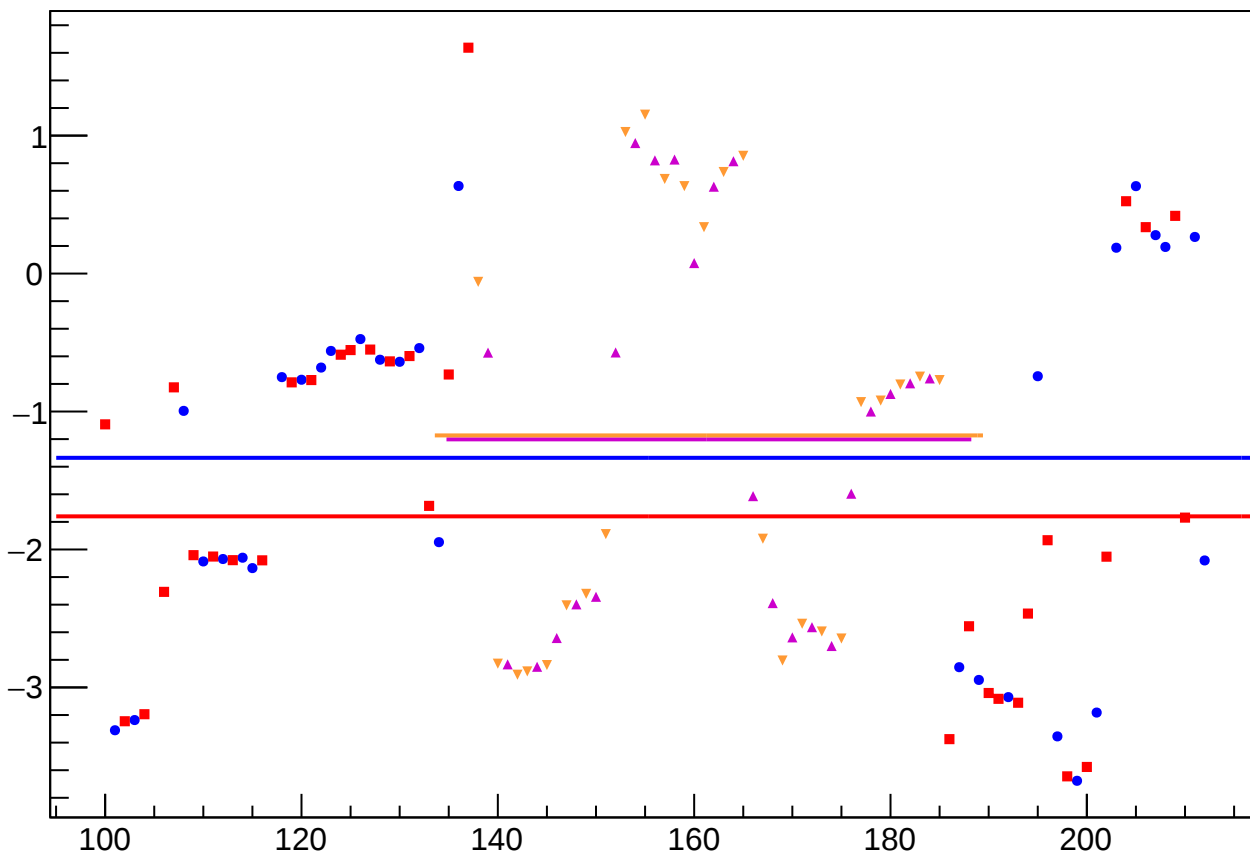
Right: 0.004 ± 0.000 $\chi^2/\text{NDF}: 2141875.8/62$

In: 0.003 ± 0.000 $\chi^2/\text{NDF}: 1434331.6/52$

Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 1752951.8/57$

All: 0.003 ± 0.000 $\chi^2/\text{NDF}: 3189077.7/110$

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.336+/-0.000 χ^2/NDF : 6156156096.1/29

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.760+/-0.000 χ^2/NDF : 5216290127.8/32

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

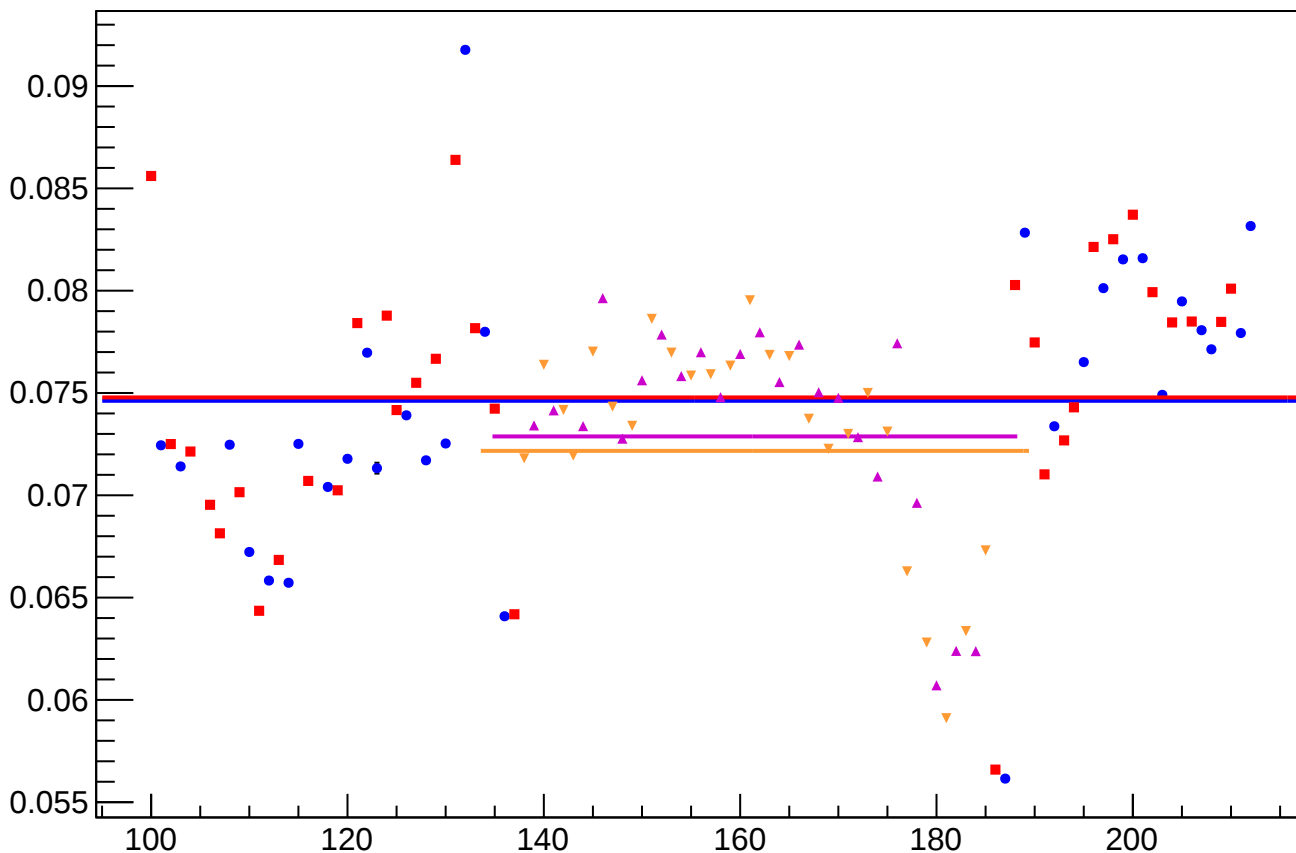
Right: -1.551+/-0.000 χ^2/NDF : 11629549042.4/62

In: -1.264+/-0.000 χ^2/NDF : 11789693281.5/52

Out: -1.441+/-0.000 χ^2/NDF : 12642790586.8/57

All: -1.355+/-0.000 χ^2/NDF : 24528764924.2/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.075+/-0.000 χ^2/NDF : 211625.7/29

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.075+/-0.000 χ^2/NDF : 241620.4/32

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

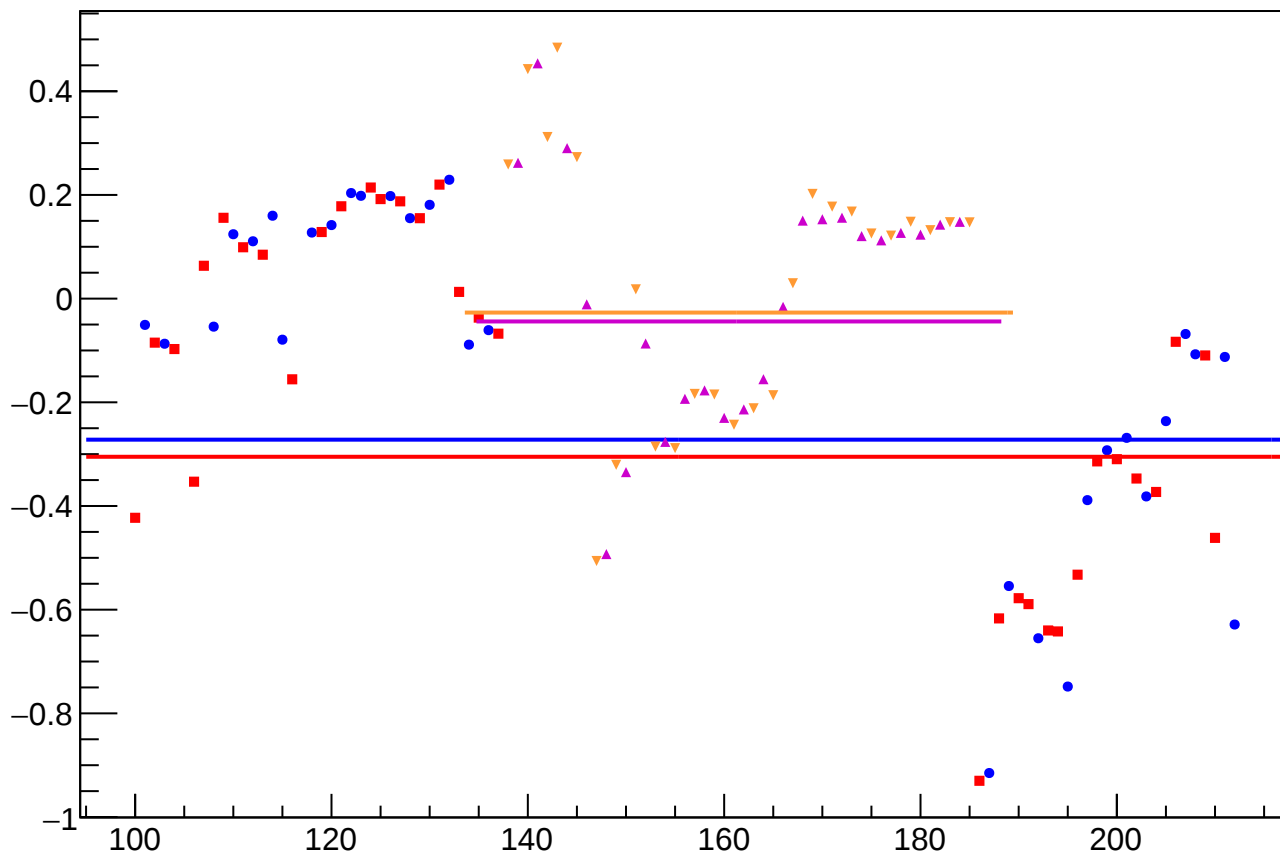
Right: 0.075+/-0.000 χ^2/NDF : 453323.0/62

In: 0.074+/-0.000 χ^2/NDF :404193.5/52

Out: 0.073+/-0.000 χ^2/NDF :485436.7/57

All: 0.074+/-0.000 χ^2/NDF : 890299.8/110

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.272+/-0.000 χ^2/NDF : 15081522920.1/29

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.305+/-0.000 χ^2/NDF : 13193554565.0/32

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

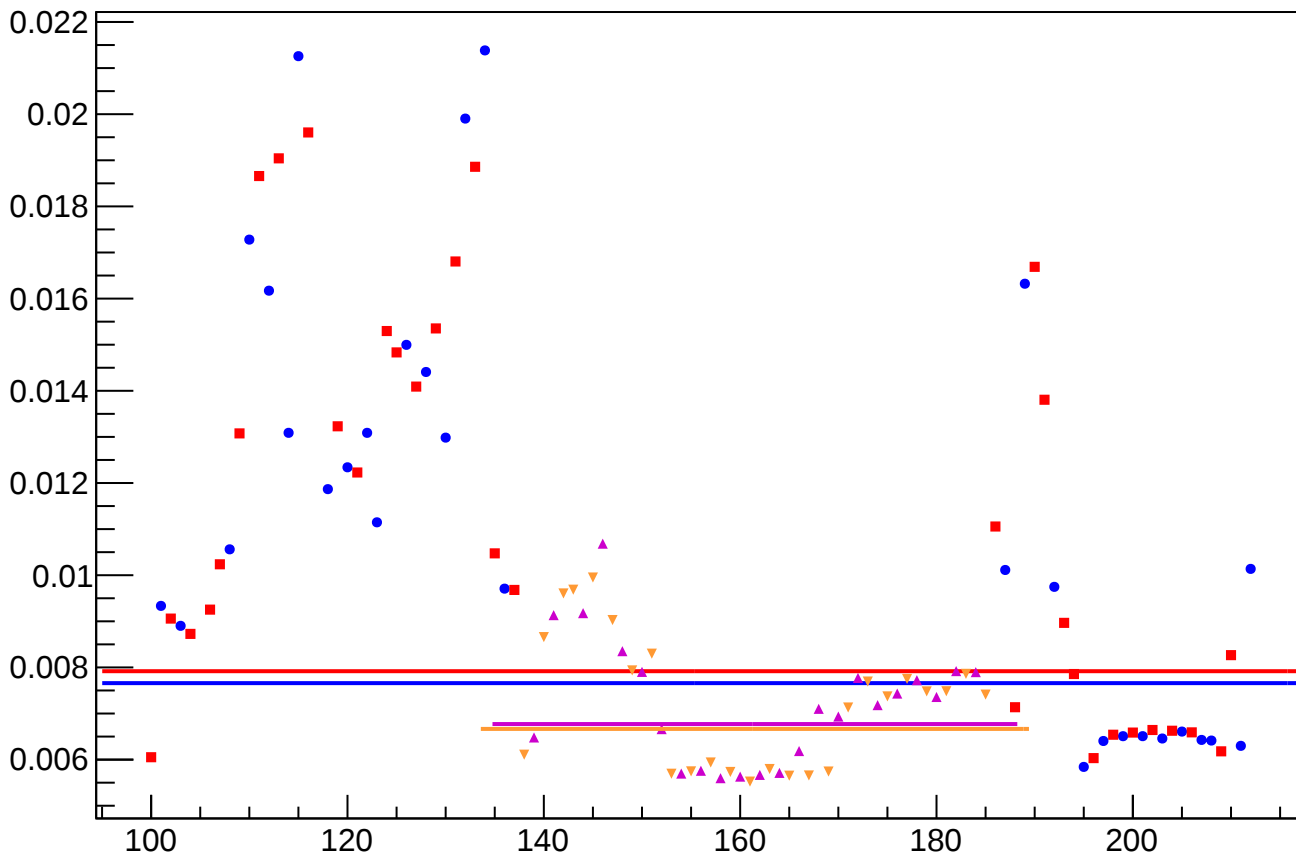
Right: -0.288+/-0.000 χ^2/NDF : 28397683984.4/62

In: -0.136+/-0.000 χ^2/NDF : 38005643448.2/52

Out: -0.129+/-0.000 χ^2/NDF : 44294926029.5/57

All: -0.132+/-0.000 χ^2/NDF : 82313811635.0/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2937093.5/29

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3074345.1/32

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

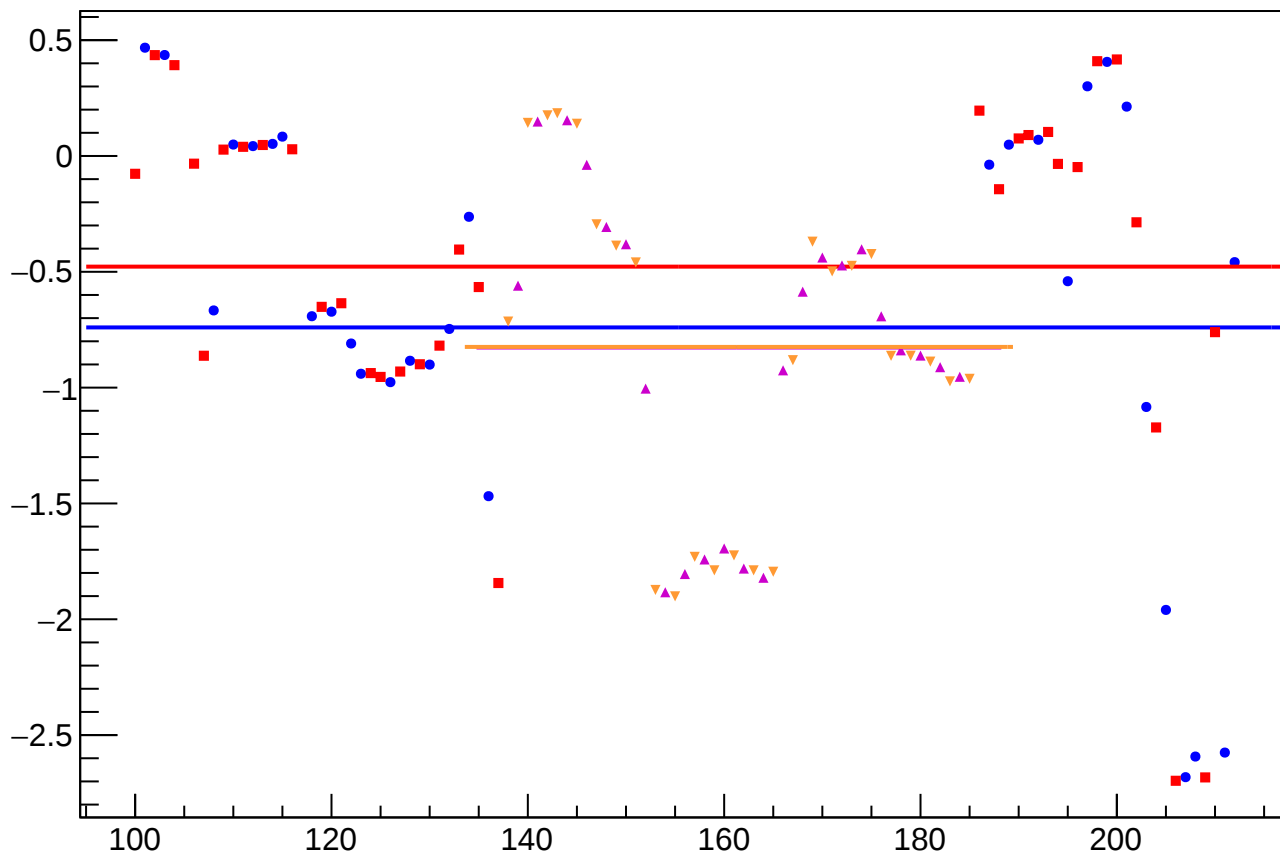
Right: 0.008+/-0.000 χ^2/NDF : 6026515.3/62

In: 0.007+/-0.000 χ^2/NDF :4089490.7/52

Out: 0.007+/-0.000 χ^2/NDF :4652529.2/57

All: 0.007+/-0.000 χ^2/NDF : 8742024.9/110

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.740+/-0.000

χ^2/NDF : 1757302734.7/29

Left: -0.826+/-0.000

χ^2/NDF : 2025270716.0/47

Left Out: -0.824+/-0.000

χ^2/NDF : 1103610806.5/24

Right: -0.606+/-0.000

χ^2/NDF : 3297411192.7/62

Right Out: -0.478+/-0.000

χ^2/NDF : 1474546864.2/32

In: -0.789+/-0.000

χ^2/NDF : 2686805849.2/52

Out: -0.675+/-0.000

χ^2/NDF : 2710729615.8/57

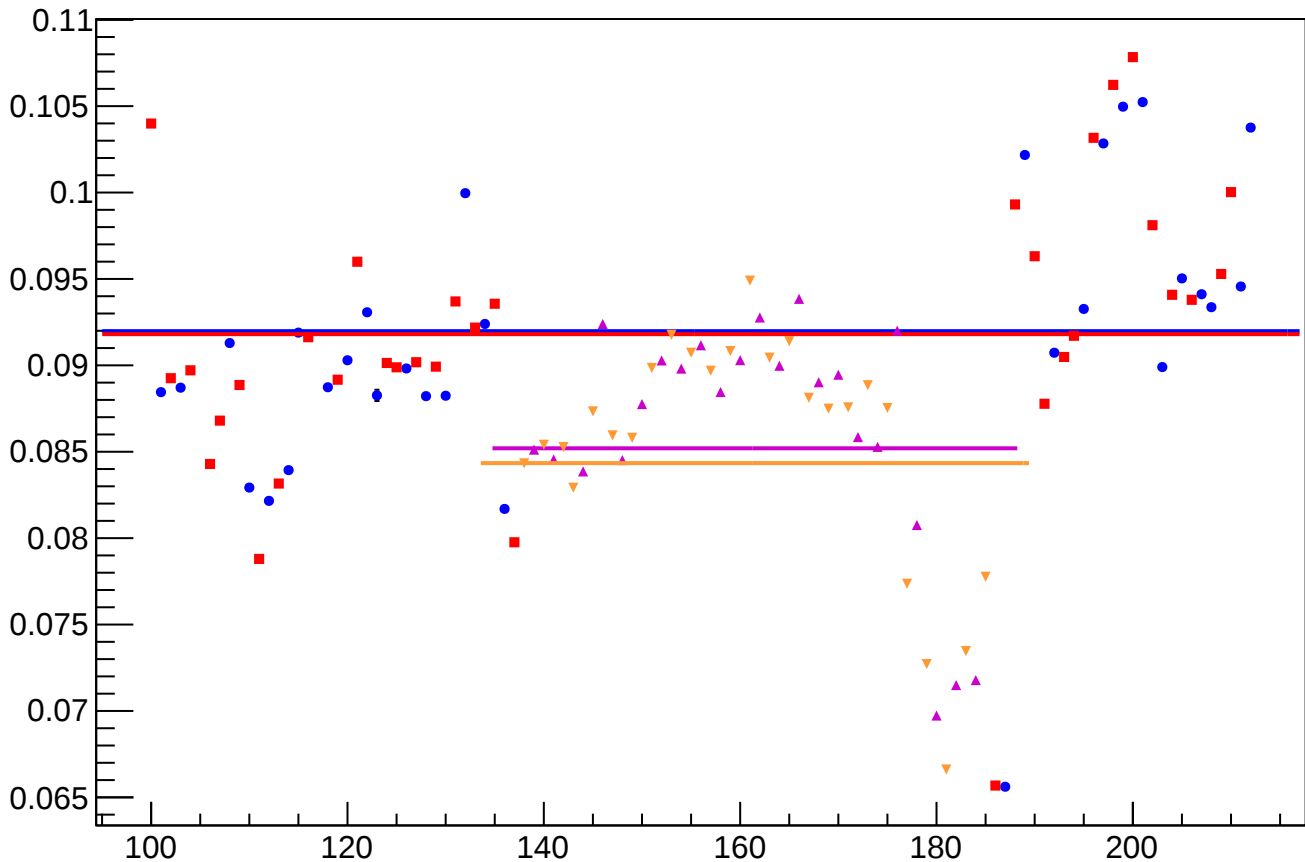
Left In: -0.827+/-0.000

χ^2/NDF : 921651117.3/22

All: -0.730+/-0.000

χ^2/NDF : 5425883021.4/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.092 $\pm$ 0.000 χ^2 /NDF: 212979.6/29

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 293716.2/32

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

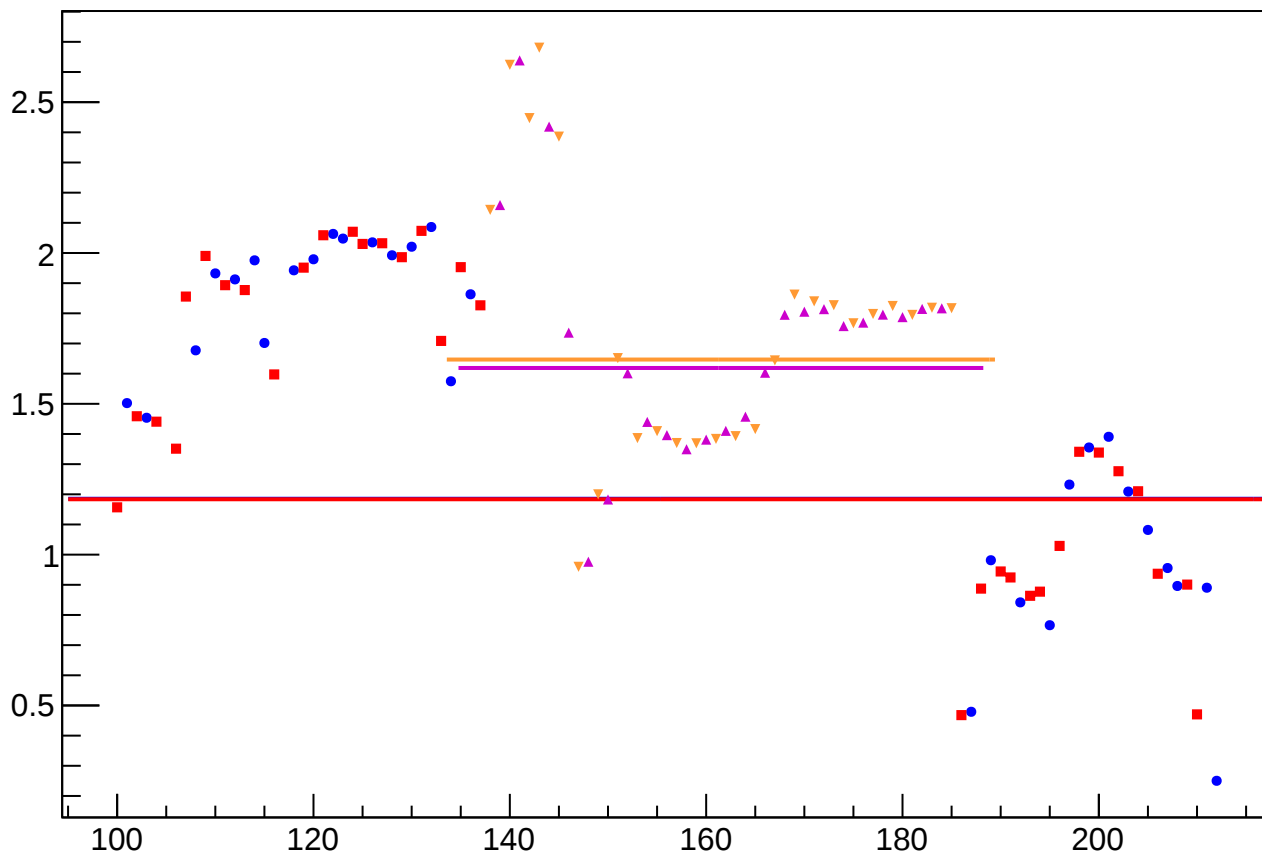
Right: 0.092 $\pm$ 0.000 χ^2 /NDF: 506753.0/62

In: 0.088 $\pm$ 0.000 χ^2 /NDF:546999.8/52

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:704921.8/57

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1253633.9/110

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.185+/-0.000 χ^2/NDF : 19997116867.3/29

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.184+/-0.000 χ^2/NDF : 17174748257.0/32

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

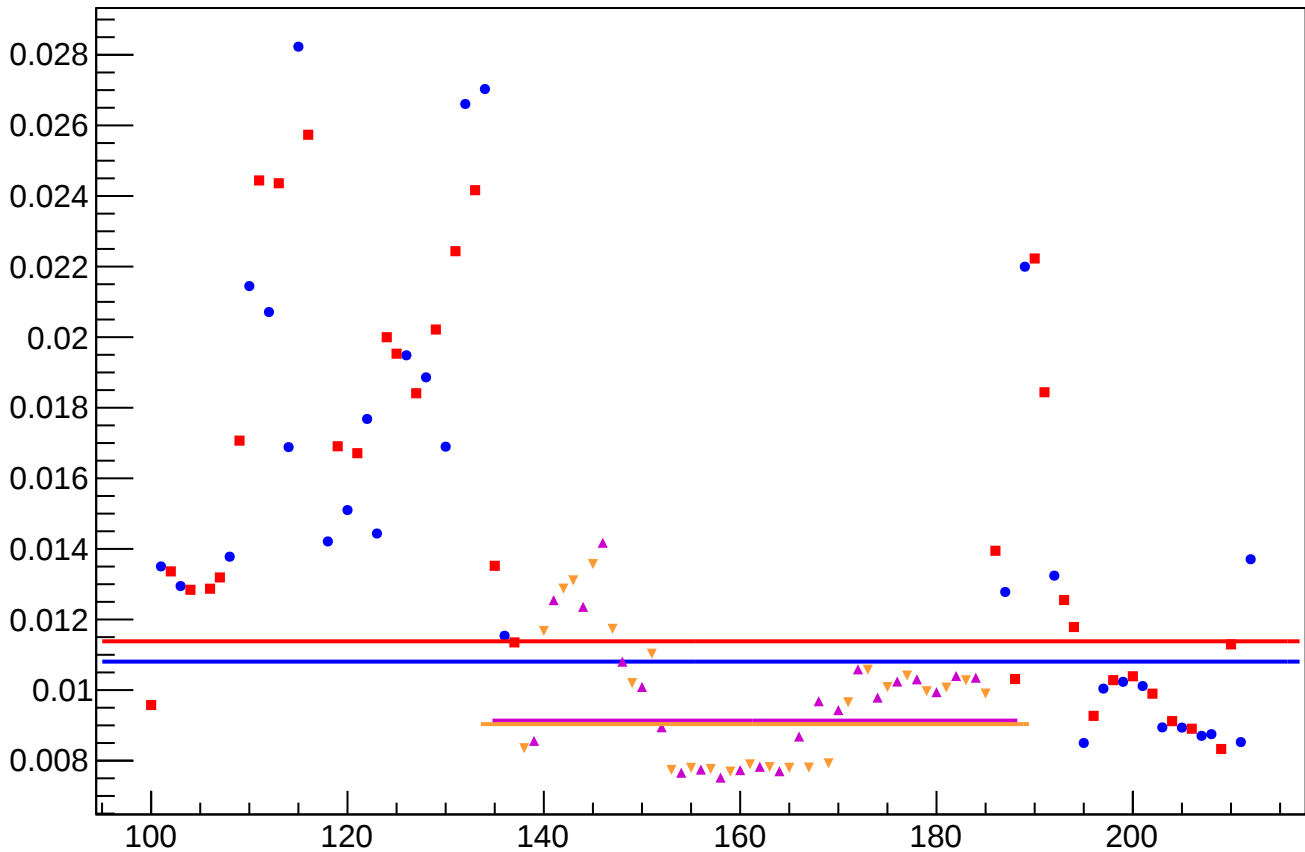
Right: 1.184+/-0.000 χ^2/NDF : 37172022245.7/62

In: 1.453+/-0.000 χ^2/NDF : 54376098342.9/52

Out: 1.488+/-0.000 χ^2/NDF : 59005740726.6/57

All: 1.471+/-0.000 χ^2/NDF : 113574567892.3

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2412773.1/29

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2524550.9/32

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

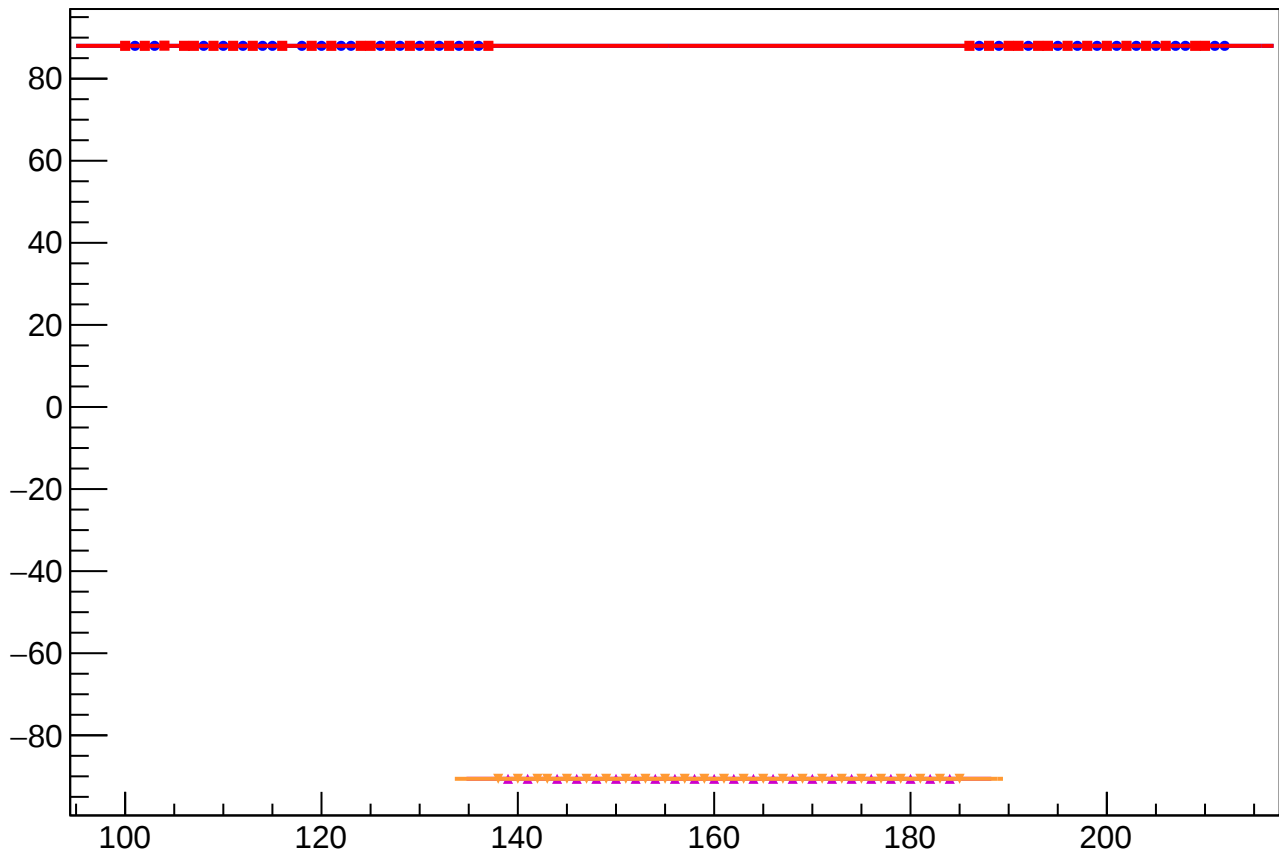
Right: 0.011+/-0.000 χ^2/NDF : 4974827.0/62

In: 0.010+/-0.000 χ^2/NDF :3700210.6/52

Out: 0.010+/-0.000 χ^2/NDF :4352260.7/57

All: 0.010+/-0.000 χ^2/NDF : 8053810.2/110

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3182100.8/29

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80929263638776774863165063168.0/32

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

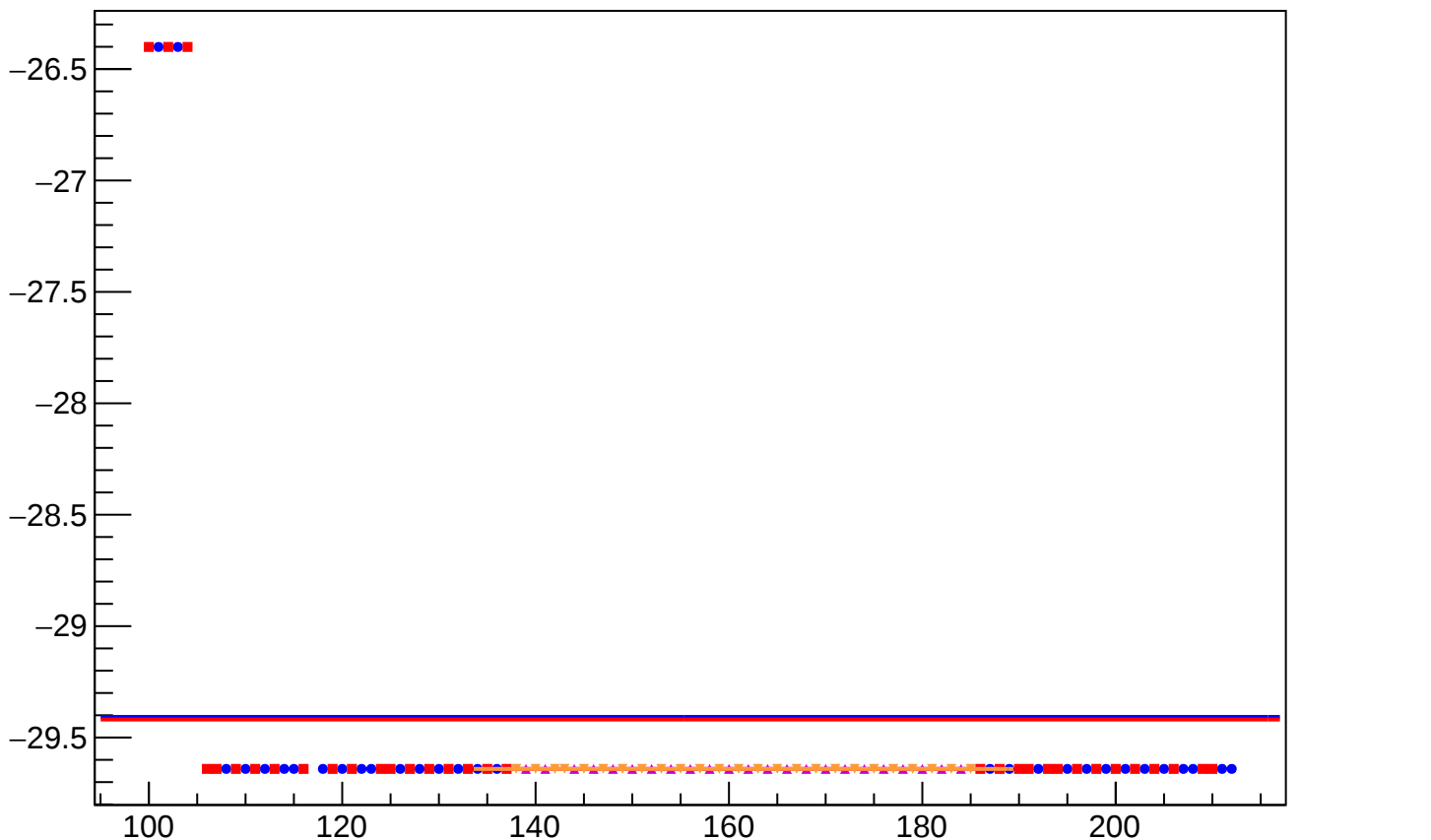
Right: 88.001+/-0.000 χ^2/NDF : 8216385138337994

In: -5.354+/-0.000 χ^2/NDF : 273438670845168639

Out: -6.508+/-0.000 χ^2/NDF : 28610866499977506

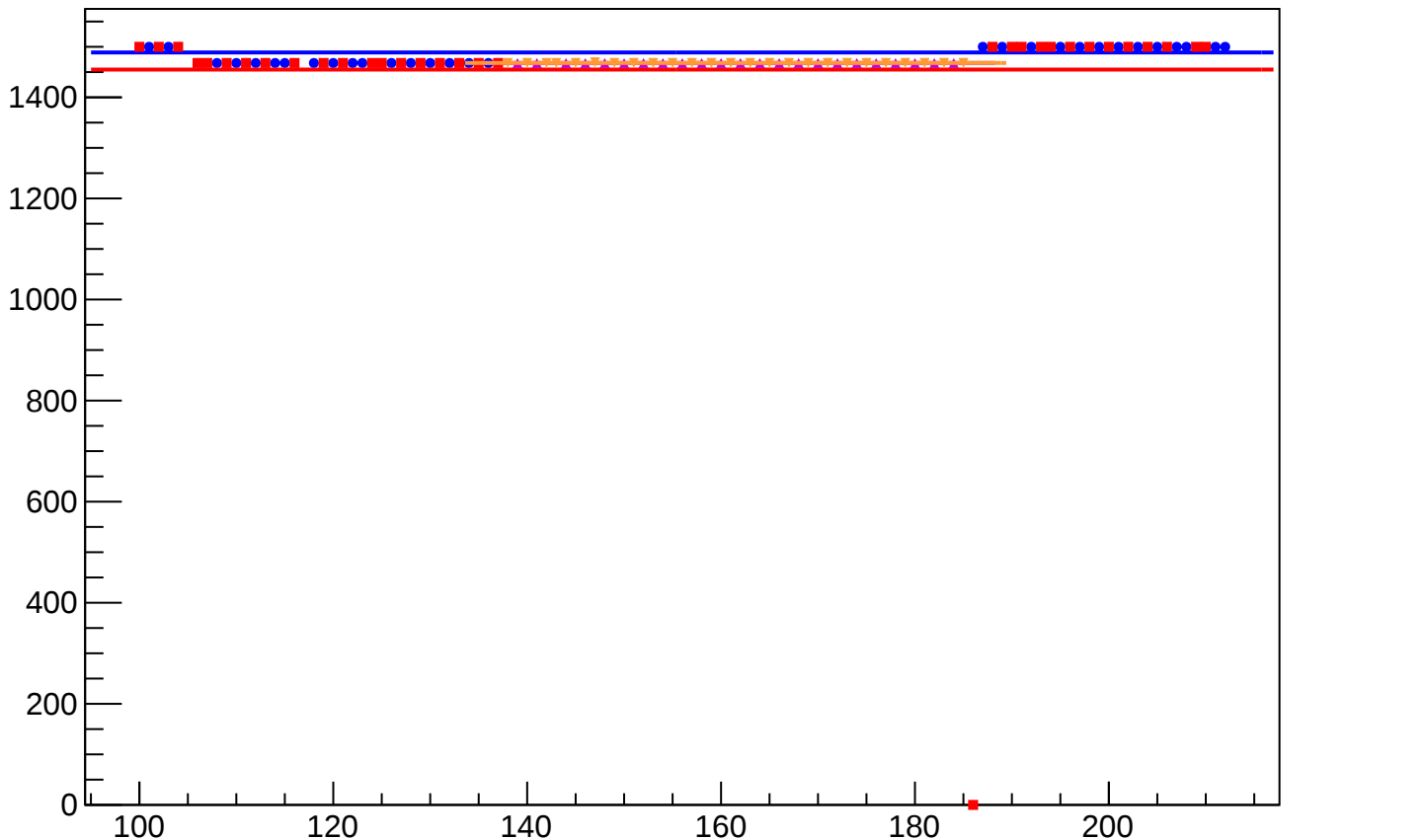
All: -5.944+/-0.000 χ^2/NDF : 5595707572592

epics_HWienAngles_mean vs Slug, Sign Corrected



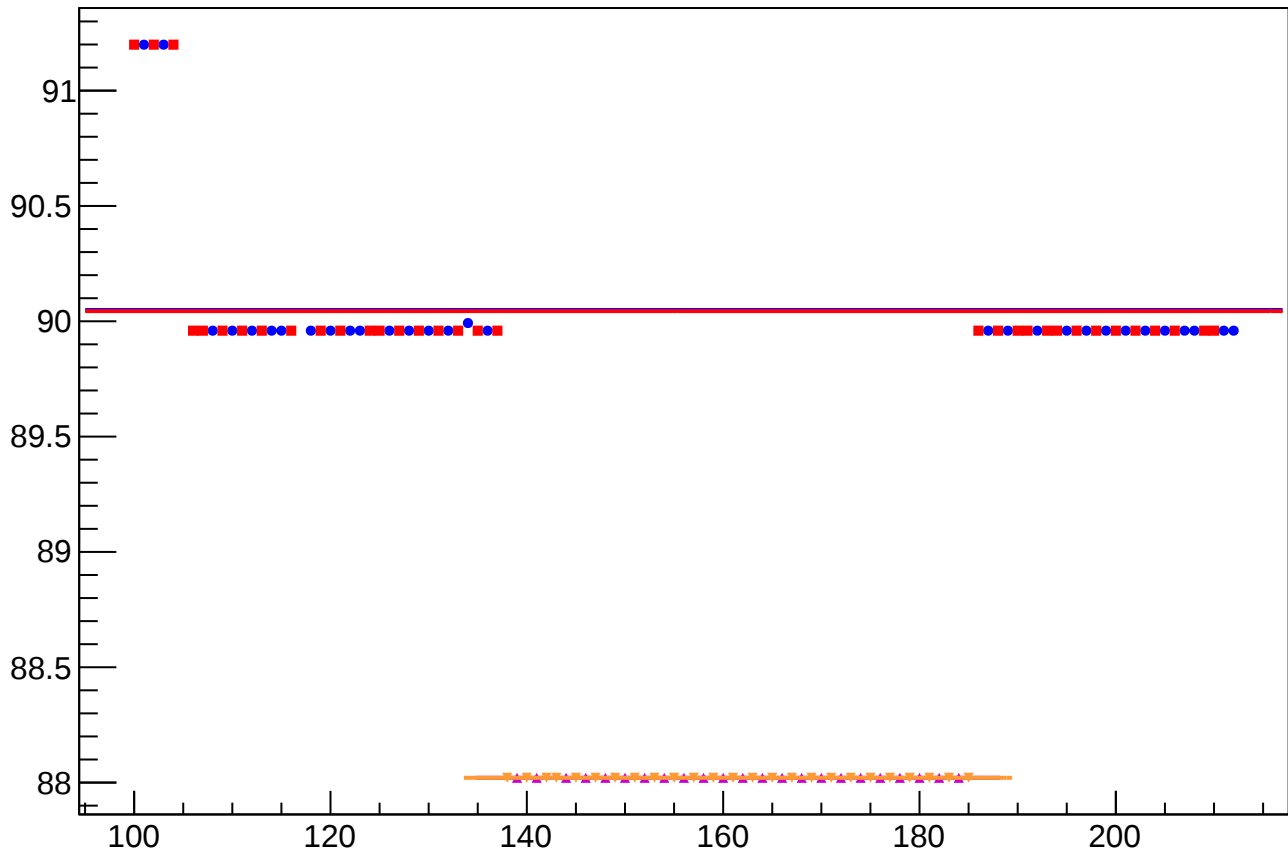
Right In: -29.408+/-0.000	χ^2/NDF : 1149589615609748382410124782731264.0/29	Left: -29.641+/-0.000	χ^2/NDF : 741150.6/47
Left Out: -29.641+/-0.000	χ^2/NDF : 530354.3/24	Right: -29.413+/-0.000	χ^2/NDF : 228408260221886
Right Out: -29.419+/-0.000	χ^2/NDF : 1134384900530959858814150844088320.0/32	In: -29.529+/-0.000	χ^2/NDF : 11961764675203561
Left In: -29.641+/-0.000	χ^2/NDF : 382603.8/22	Out: -29.536+/-0.000	χ^2/NDF : 1178483903999973
		All: -29.533+/-0.000	χ^2/NDF : 237474331961

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1488.813+/-0.000	χ^2/NDF : 382269186893802362516052301129449472.0/29	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1471.608+/-0.000	χ^2/NDF : 84017451982392
Right Out: 1454.962+/-0.000	χ^2/NDF : 82680053641095878558407747190036365312.0/32	In: 1477.931+/-0.000	χ^2/NDF : 7538309334206000
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1461.887+/-0.000	χ^2/NDF : 828337738887727
	All: 1469.722+/-0.000		χ^2/NDF : 84040151184

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.049+/-0.000

χ^2/NDF : 168281002219981515023178690199552.0/29

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.047+/-0.000 χ^2/NDF : 3344552000265987

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.044+/-0.000

χ^2/NDF : 166155142418922836166826233167872.0/32

Left In: 88.021+/-0.000

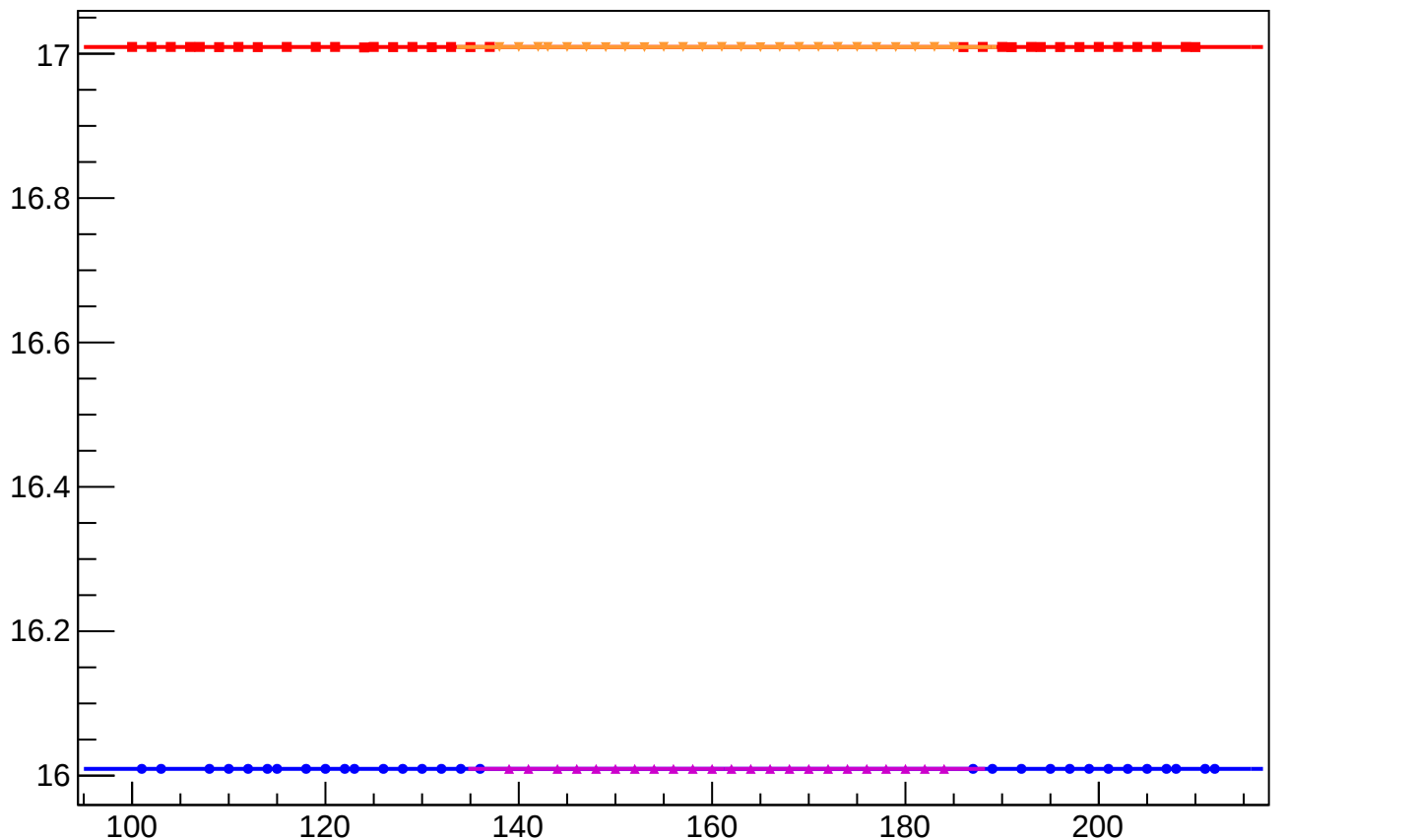
χ^2/NDF : 6257169.0/22

In: 88.989+/-0.000 χ^2/NDF : 369470227269861993

Out: 88.973+/-0.000 χ^2/NDF : 38385496453419871

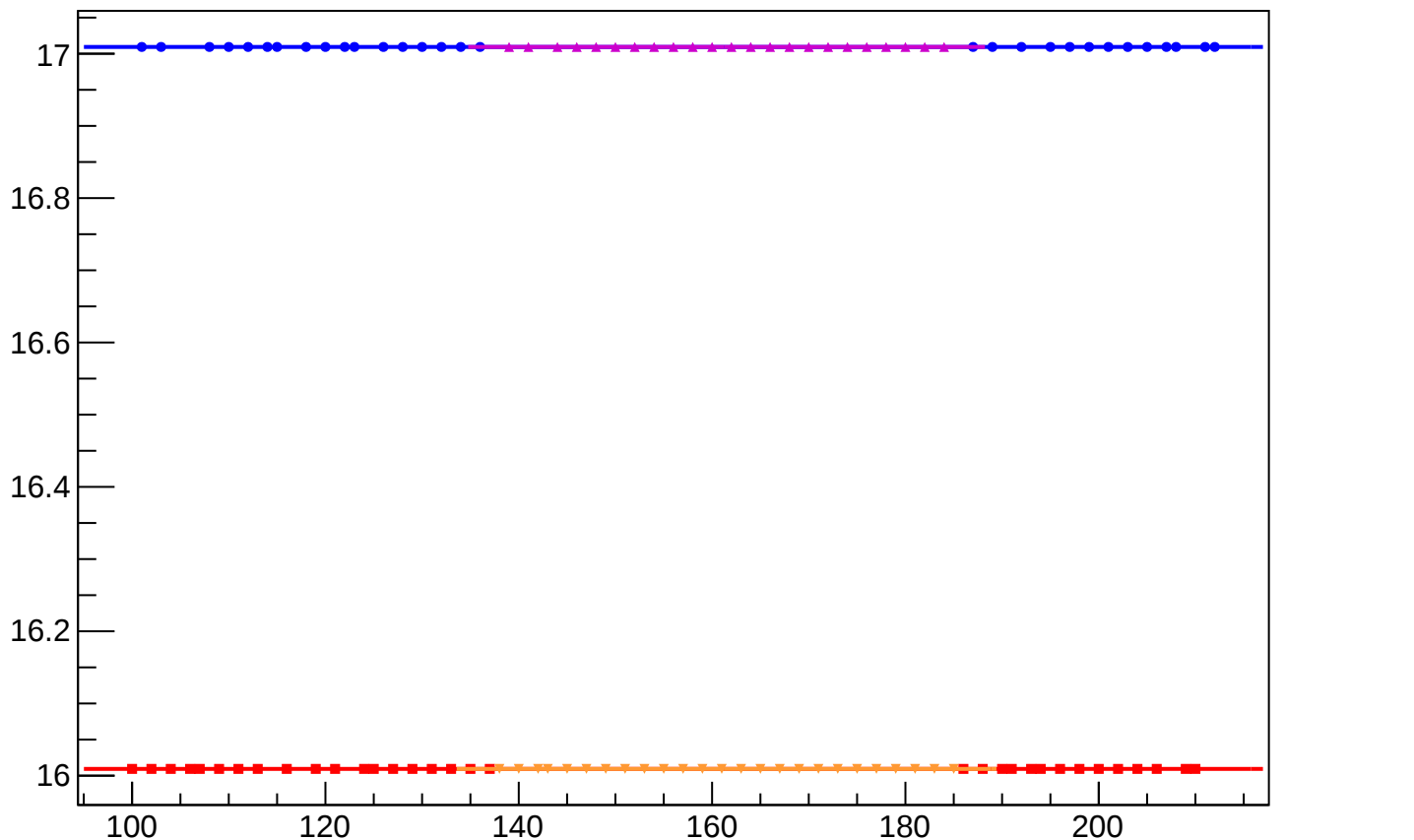
All: 88.981+/-0.000 χ^2/NDF : 7533666989433

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



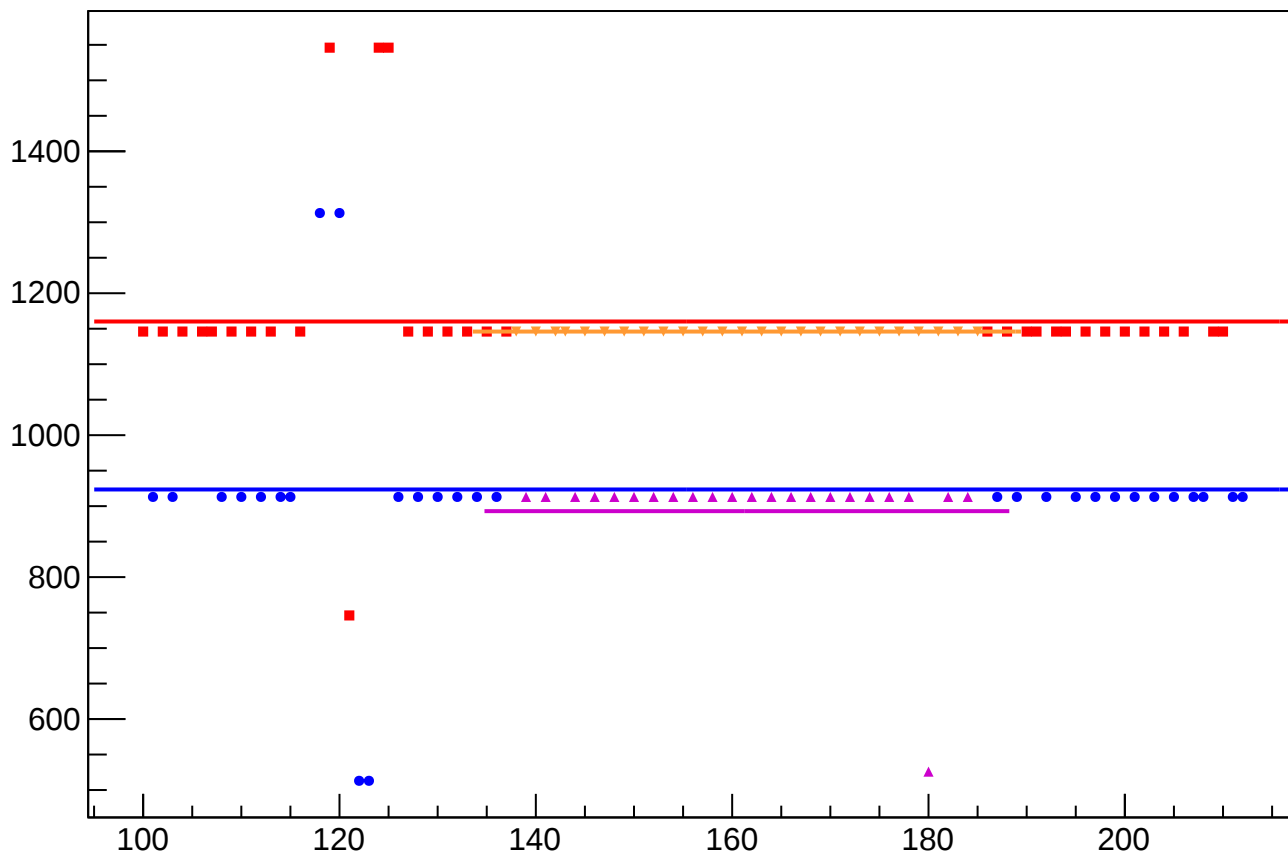
Right In: 16.009+/-0.000	χ^2/NDF : 114490121772878903902208.0/29	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.512+/-0.000	χ^2/NDF : 8088480392663686
Right Out: 17.009+/-0.000	χ^2/NDF : 20096998506532480110034944.0/32	In: 16.009+/-0.000	χ^2/NDF : 242415116514182171
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 47197702350793816
		All: 16.518+/-0.000	χ^2/NDF : 1667635965781

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



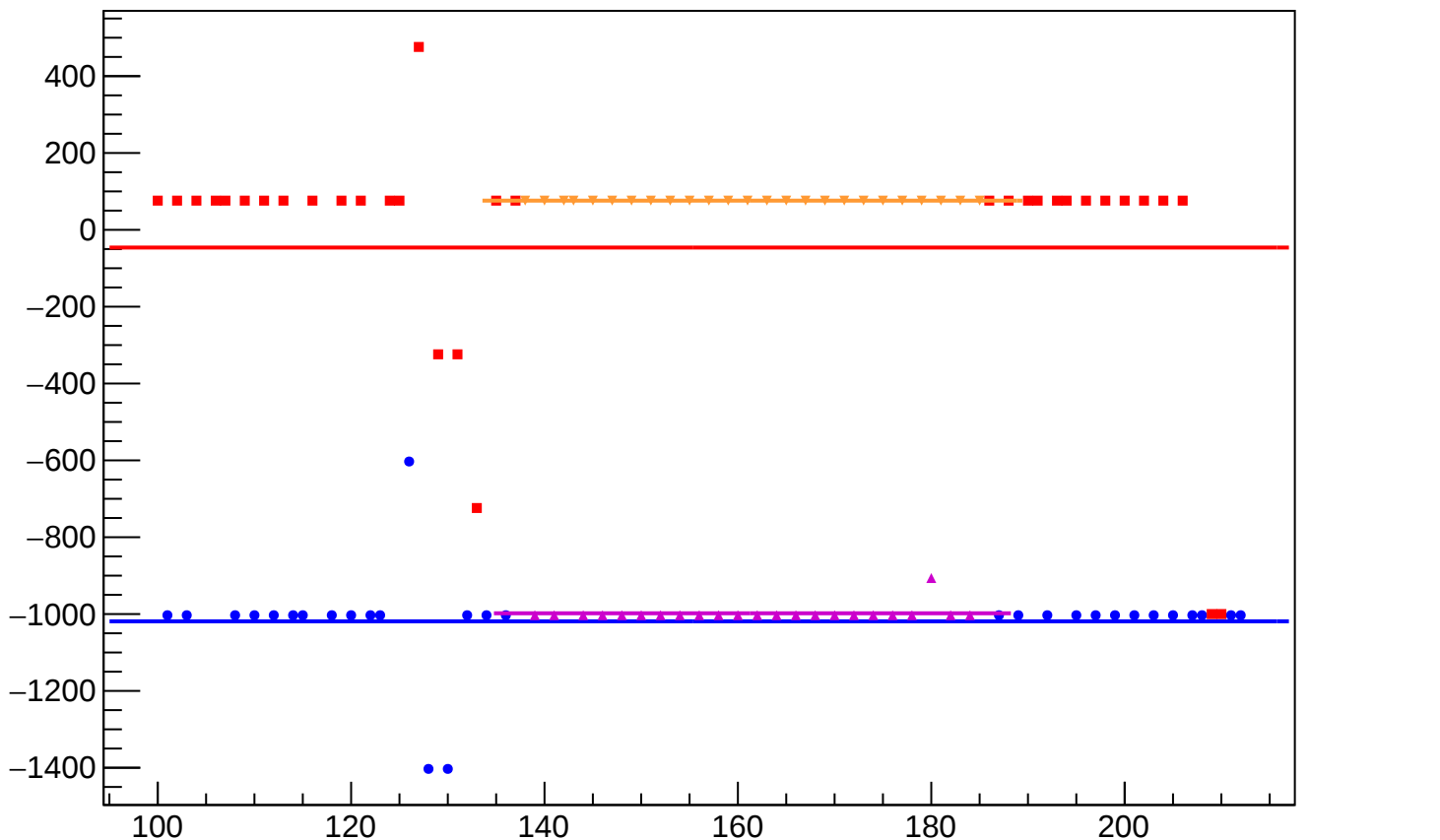
Right In: 17.009+/-0.000	χ^2/NDF : 114490121814305155317760.0/29	Left: 16.491+/-0.000	χ^2/NDF : 90683349233974458
Left Out: 16.009+/-0.000	χ^2/NDF : 61253.5/24	Right: 16.497+/-0.000	χ^2/NDF : 8235113623748439
Right Out: 16.009+/-0.000	χ^2/NDF : 298706.9/32	In: 17.009+/-0.000	χ^2/NDF : 229497338182837993
Left In: 17.009+/-0.000	χ^2/NDF : 114986101427233622065152.0/22	Out: 16.009+/-0.000	χ^2/NDF : 784657.9/57
		All: 16.494+/-0.000	χ^2/NDF : 1730402192426

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



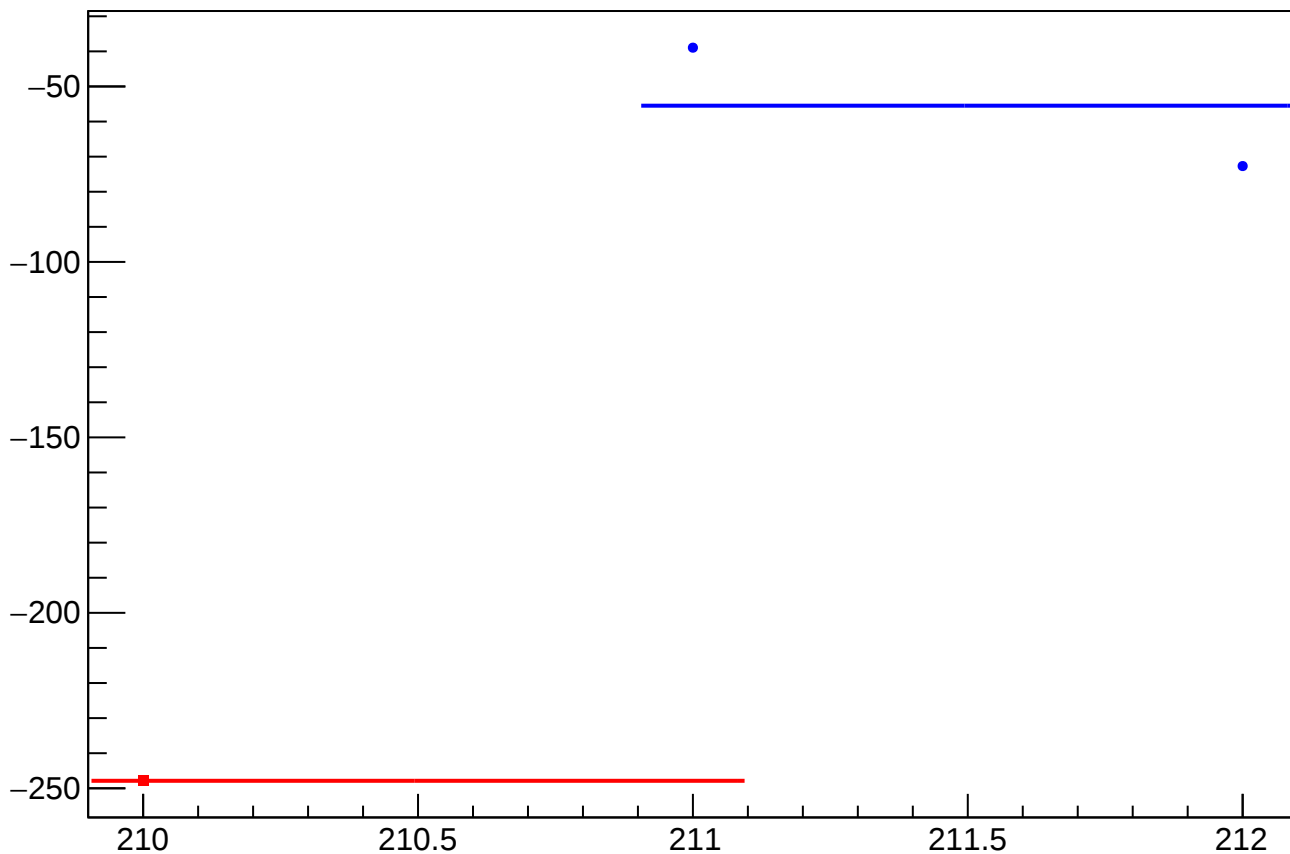
Right In: 923.482+/-0.000 χ^2/NDF : 21100971074406868262123773169405788160.0/29
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1160.169+/-0.000 χ^2/NDF : 21740905392925685554149615550064492544.0/32
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1032.957+/-0.000 χ^2/NDF : 16269383632

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



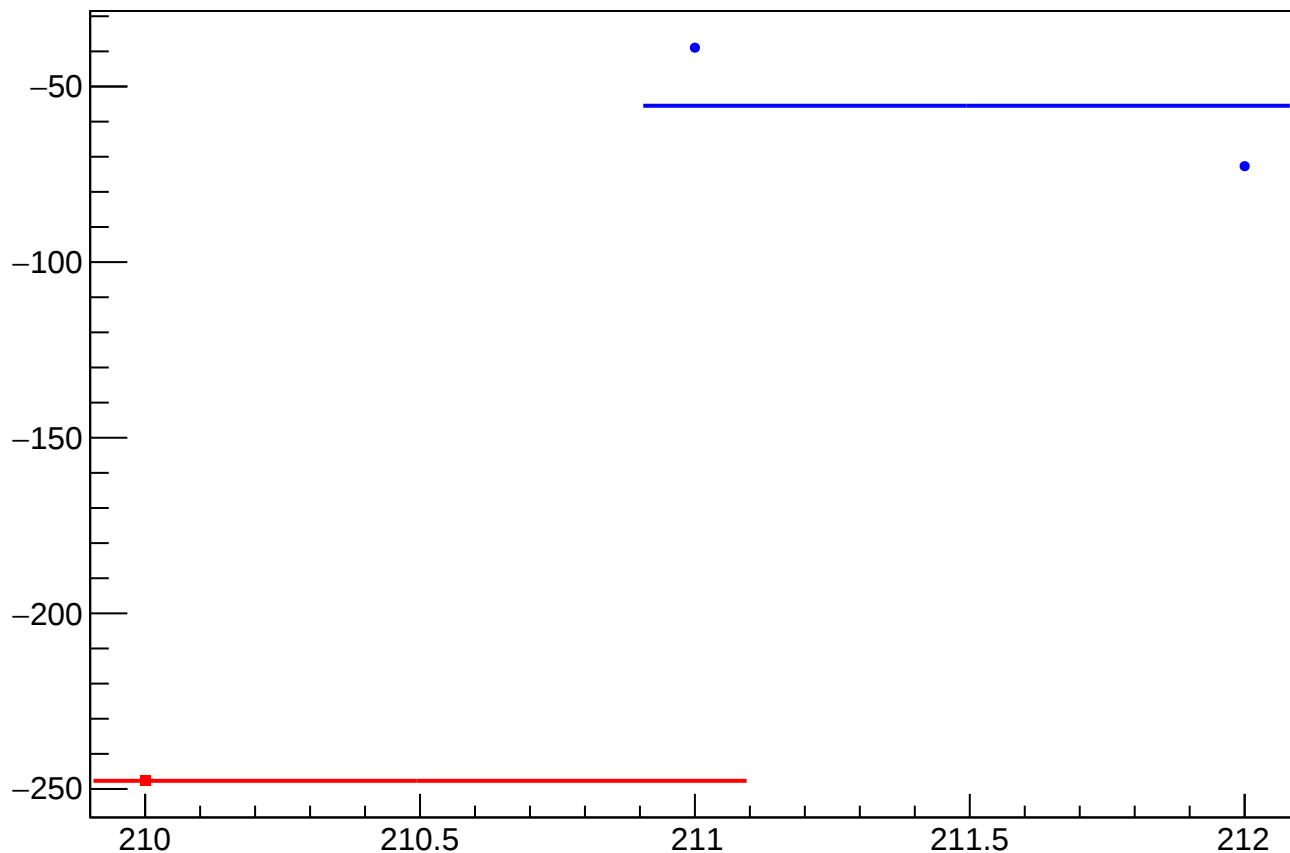
Right In: -1018.843+/-0.000 χ^2/NDF : 22787485764958494162868121116650504192.0/29
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -46.096+/-0.000 χ^2/NDF : 191958611020214546778987585909666349056.0/32
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -482.746+/-0.000 χ^2/NDF : 20816143471

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 Right: -117.594+/-0.000 χ^2 /NDF: 18473998425088
 Right In: -55.479+/-0.000 χ^2 /NDF: 42949061990506951287631176628436992.0/1
 Left Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 Right Out: -247.863+/-0.000 χ^2 /NDF: 58161.1/0
 In: -55.479+/-0.000 χ^2 /NDF: 42949061990506951
 Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 Left In: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 All: -117.594+/-0.000 χ^2 /NDF: 18473998425

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -247.671+/-0.000 χ^2/NDF : 58161.1/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -117.532+/-0.000 χ^2/NDF : 18437975782153