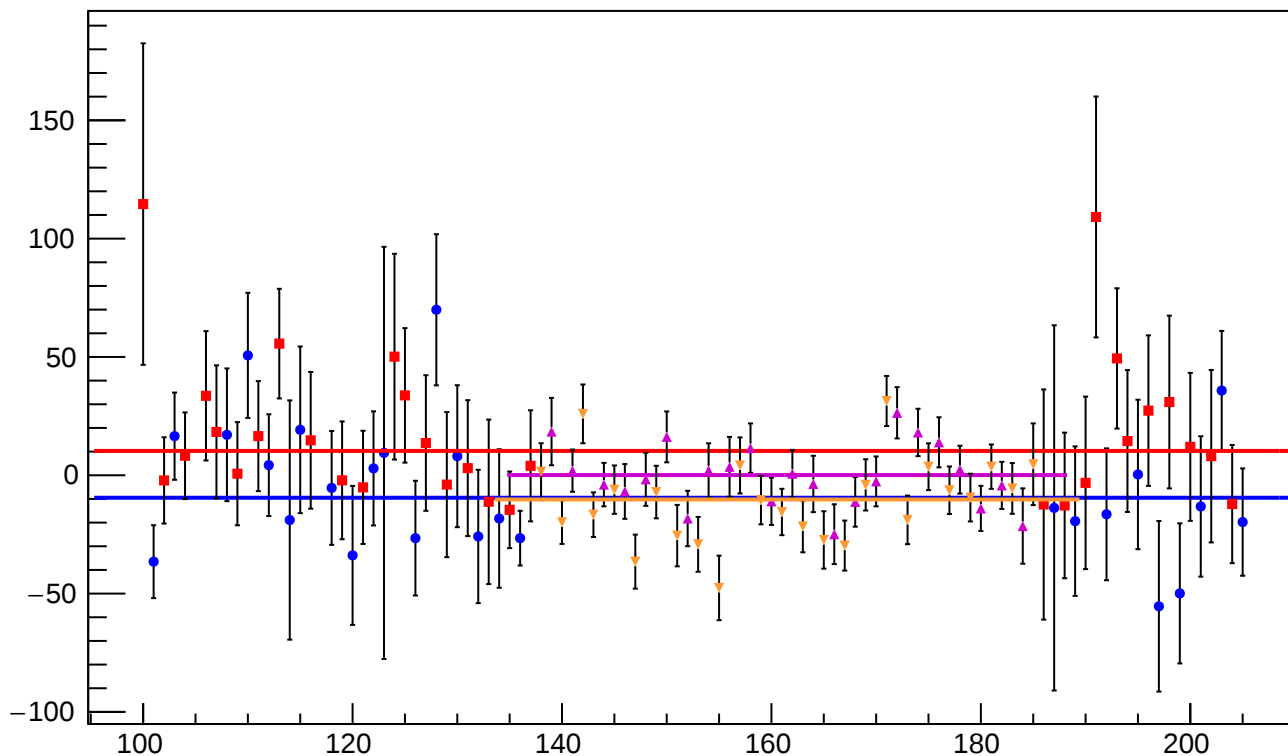


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.494±/4.897

χ^2/NDF : 30.1/25

Left Out: -10.238±/2.170

χ^2/NDF : 58.1/24

Right Out: 10.295±/4.944

χ^2/NDF : 20.9/29

Left In: 0.080±/2.251

χ^2/NDF : 29.9/22

Left: -5.266±/1.562

χ^2/NDF : 98.9/47

Right: 0.306±/3.480

χ^2/NDF : 59.1/55

In: -1.589±/2.045

χ^2/NDF : 63.1/48

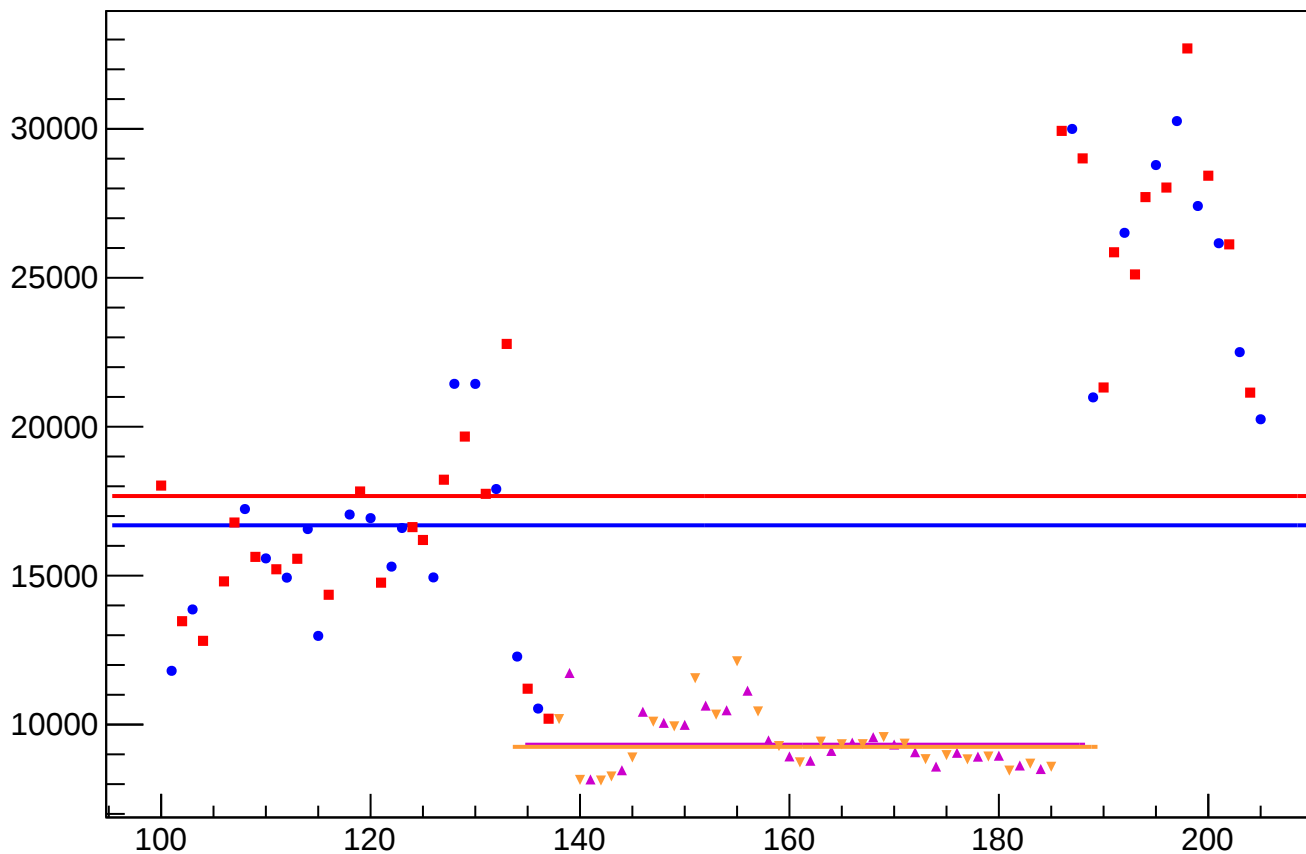
Out: -6.921±/1.987

χ^2/NDF : 93.5/54

All: -4.332±/1.425

χ^2/NDF : 160.1/103

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16689.705 $\pm$ 3.463 χ^2 /NDF: 2559684.1/25

Left Out: 9251.811 $\pm$ 1.535 χ^2 /NDF:332323.3/24

Right Out: 17672.516 $\pm$ 3.496 χ^2 /NDF: 2719965.7/29

Left In: 9323.983 $\pm$ 1.591 χ^2 /NDF:275717.0/22

Left: 9286.587 $\pm$ 1.105 χ^2 /NDF: 609106.1/47

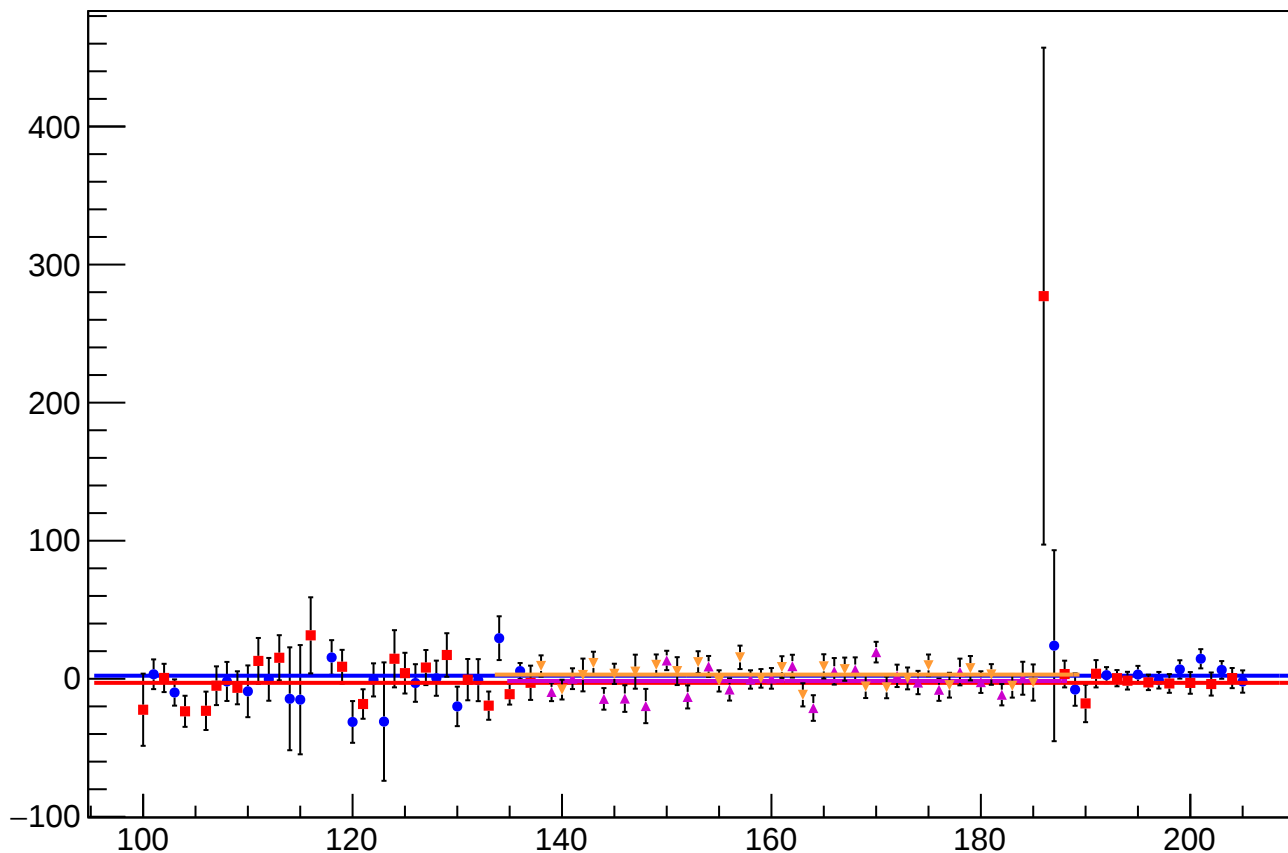
Right: 17176.426 $\pm$ 2.460 χ^2 /NDF: 5319537.1/55

In: 10608.205 $\pm$ 1.446 χ^2 /NDF:6570583.6/48

Out: 10612.068 $\pm$ 1.405 χ^2 /NDF:7916201.0/54

All: 10610.192 $\pm$ 1.008 χ^2 /NDF: 14486788.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.228 $\pm$ 1.894 χ^2/NDF : 20.6/25

Left Out: 3.027 $\pm$ 1.661 χ^2/NDF : 18.6/24

Right Out: -2.942 $\pm$ 1.831 χ^2/NDF : 25.2/29

Left In: -1.588 $\pm$ 1.703 χ^2/NDF : 35.5/22

Left: 0.777 $\pm$ 1.189 χ^2/NDF : 57.8/47

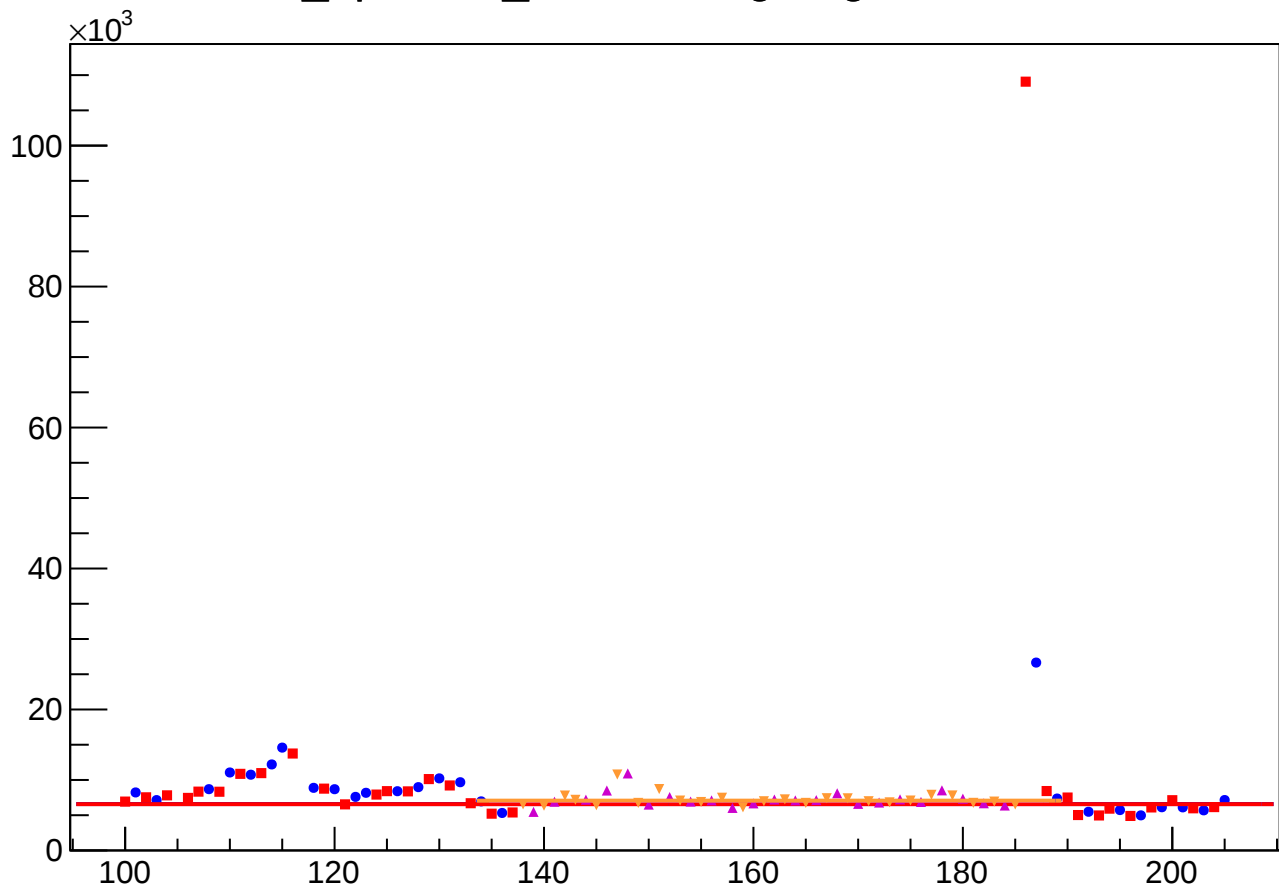
Right: -0.444 $\pm$ 1.317 χ^2/NDF : 49.6/55

In: 0.117 $\pm$ 1.266 χ^2/NDF : 58.3/48

Out: 0.334 $\pm$ 1.230 χ^2/NDF : 49.6/54

All: 0.228 $\pm$ 0.882 χ^2/NDF : 107.9/103

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6585.380 ± 1.339 $\chi^2/\text{NDF}: 1517768.7/25$

Left Out: 7064.457 ± 1.174 $\chi^2/\text{NDF}: 386814.9/24$

Right Out: 6568.361 ± 1.295 $\chi^2/\text{NDF}: 2099858.0/29$

Left In: 7014.572 ± 1.204 $\chi^2/\text{NDF}: 525313.7/22$

Left: 7040.137 ± 0.841 $\chi^2/\text{NDF}: 913008.5/47$

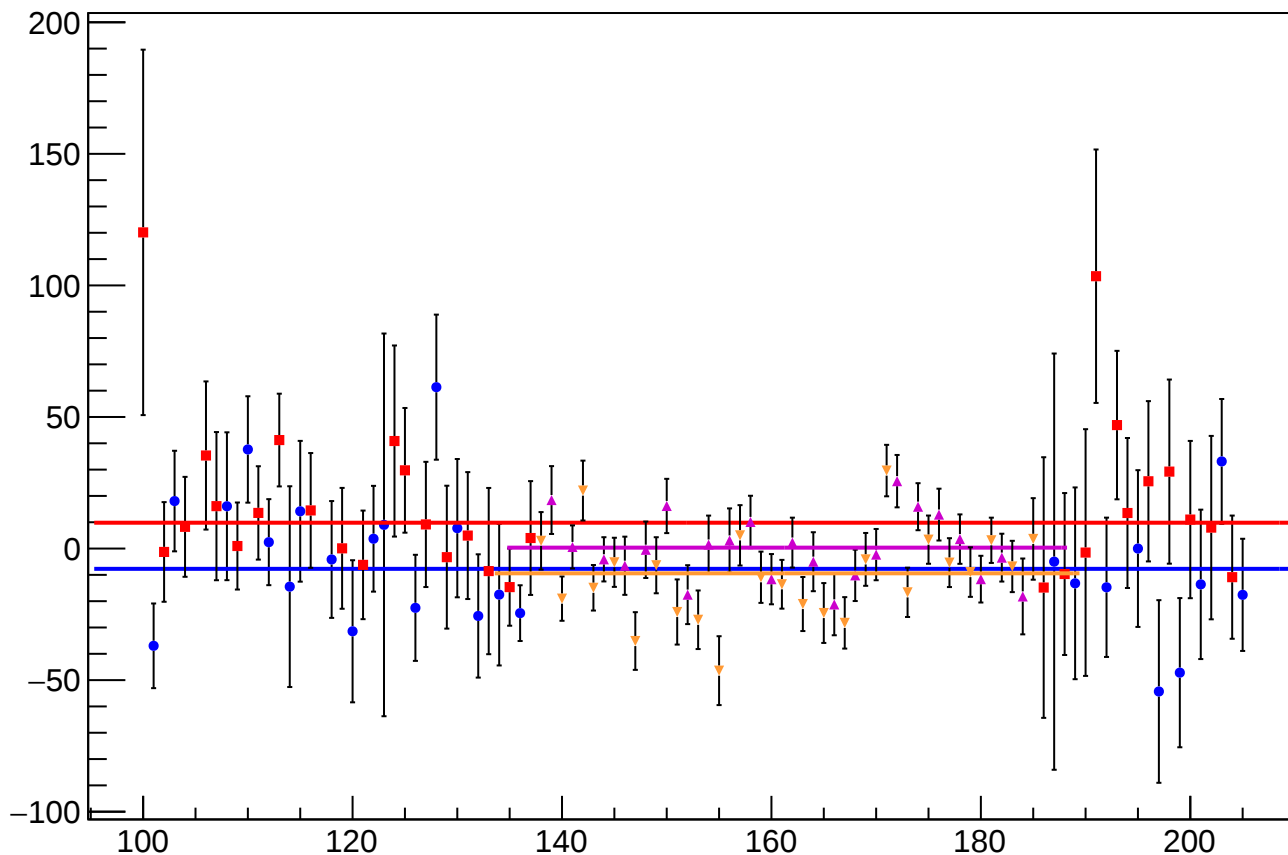
Right: 6576.584 ± 0.931 $\chi^2/\text{NDF}: 3617710.1/55$

In: 6822.750 ± 0.895 $\chi^2/\text{NDF}: 2099884.1/48$

Out: 6840.602 ± 0.870 $\chi^2/\text{NDF}: 2567218.6/54$

All: 6831.934 ± 0.624 $\chi^2/\text{NDF}: 4667307.3/100$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.711 ± 4.458 χ^2/NDF : 30.7/25

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

Right Out: 9.819 ± 4.456 χ^2/NDF : 20.6/29

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

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

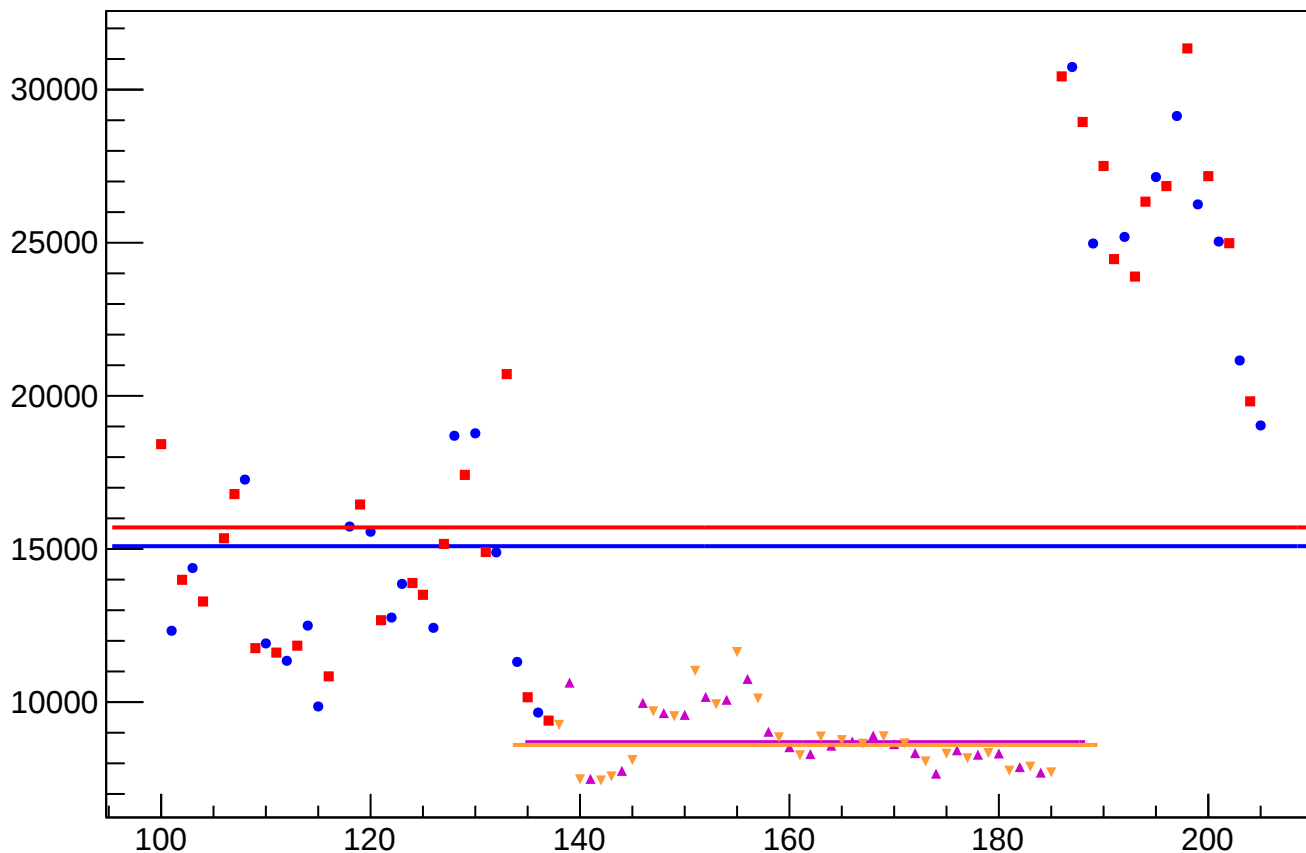
Right: 1.059 ± 3.152 χ^2/NDF : 59.0/55

In: -1.119 ± 1.900 χ^2/NDF : 63.2/48

Out: -6.130 ± 1.841 χ^2/NDF : 94.8/54

All: -3.705 ± 1.322 χ^2/NDF : 161.6/103

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15091.327+/-3.153 χ^2/NDF : 2944213.2/25

Left Out: 8602.220+/-1.429 χ^2/NDF : 438805.2/24

Right Out: 15704.610+/-3.151 χ^2/NDF : 3408778.5/29

Left In: 8691.203+/-1.485 χ^2/NDF : 365254.6/22

Left: 8644.996+/-1.030 χ^2/NDF : 805923.5/47

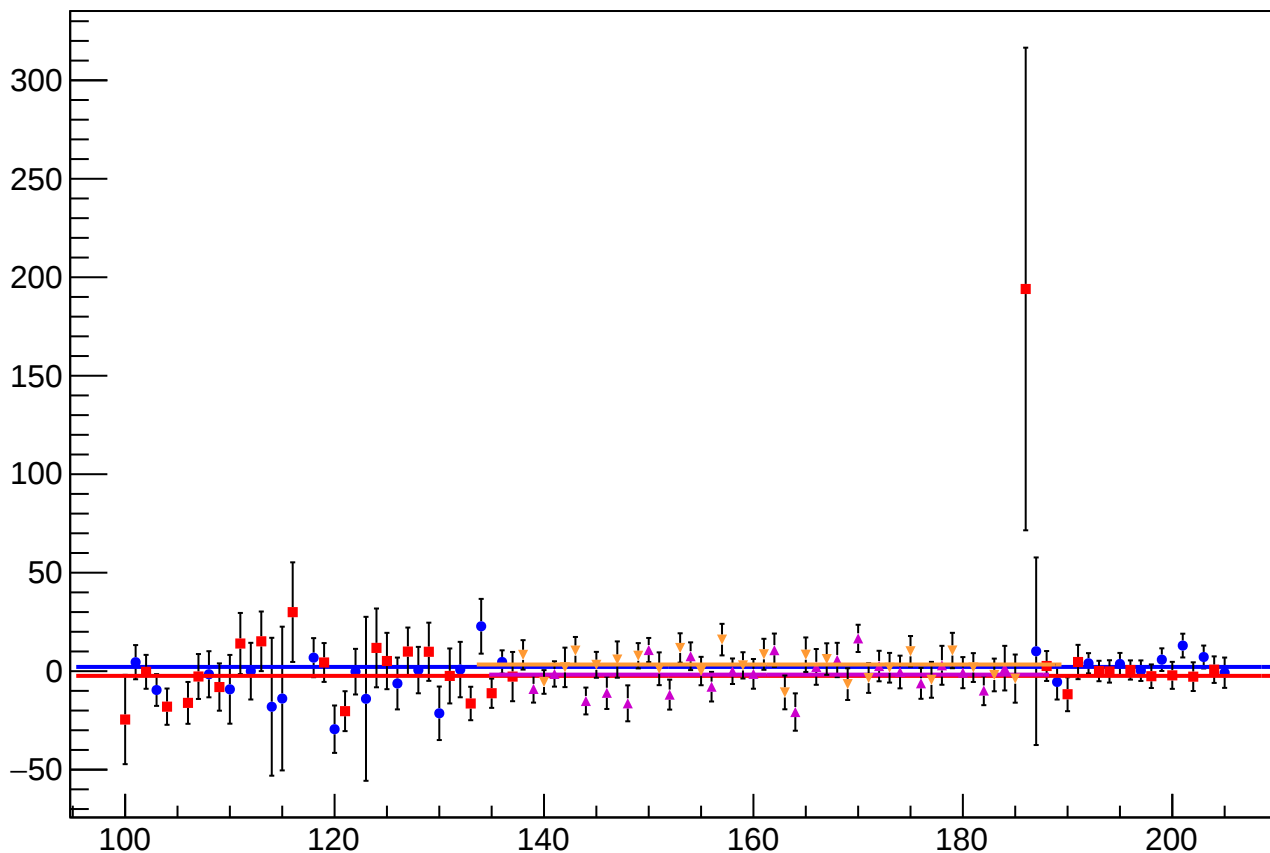
Right: 15398.129+/-2.229 χ^2/NDF : 6371923.3/55

In: 9853.755+/-1.344 χ^2/NDF : 6682242.9/48

Out: 9813.905+/-1.301 χ^2/NDF : 8061581.4/54

All: 9833.195+/-0.935 χ^2/NDF : 14744278.1/102

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.153 ± 1.686 $\chi^2/\text{NDF}: 22.0/25$

Left Out: 3.374 ± 1.552 $\chi^2/\text{NDF}: 17.2/24$

Right Out: -2.390 ± 1.607 $\chi^2/\text{NDF}: 25.9/29$

Left In: -1.756 ± 1.607 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.899 ± 1.116 $\chi^2/\text{NDF}: 56.0/47$

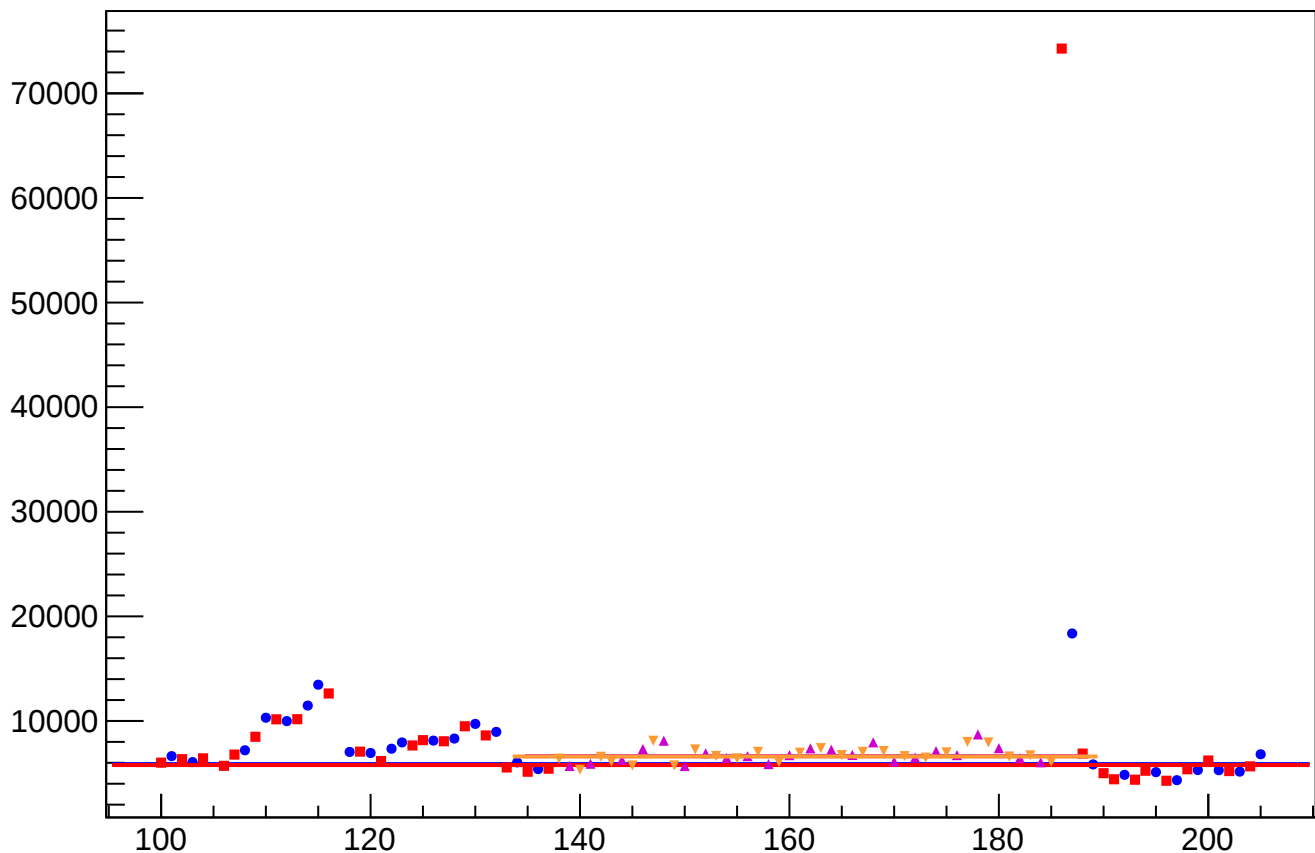
Right: -0.228 ± 1.163 $\chi^2/\text{NDF}: 51.8/55$

In: 0.105 ± 1.163 $\chi^2/\text{NDF}: 58.4/48$

Out: 0.593 ± 1.116 $\chi^2/\text{NDF}: 49.7/54$

All: 0.359 ± 0.805 $\chi^2/\text{NDF}: 108.2/103$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5875.528+/-1.192

χ^2/NDF : 1492294.5/25

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right Out: 5785.818+/-1.136

χ^2/NDF : 2129236.5/29

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

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

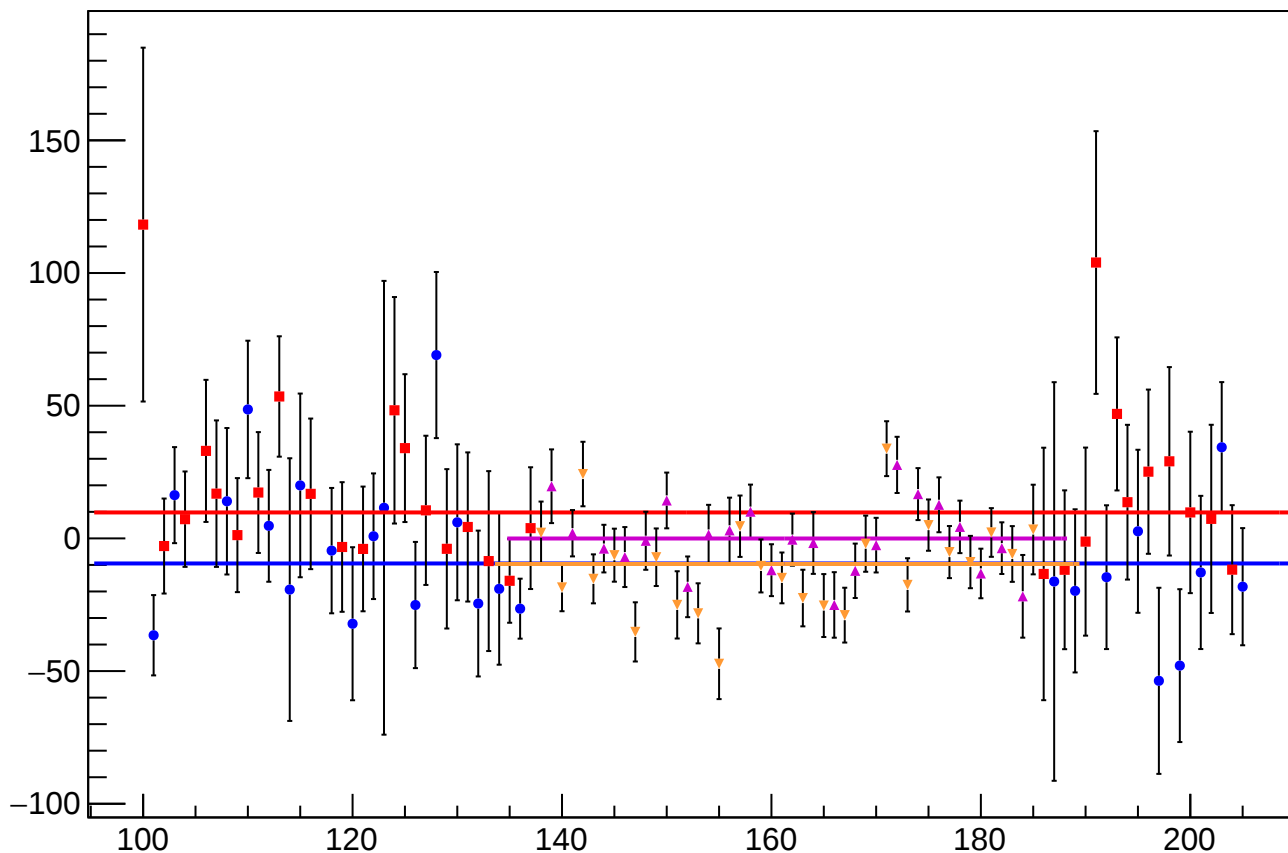
Right: 5828.511+/-0.823 χ^2/NDF : 3624497.7/55

In: 6274.666+/-0.823 χ^2/NDF : 2121656.5/48

Out: 6209.144+/-0.789 χ^2/NDF : 2792752.5/54

All: 6240.552+/-0.570 χ^2/NDF : 4917712.2/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.446 ± 4.792 χ^2/NDF : 29.8/25

Left Out: -9.640 ± 2.122 χ^2/NDF : 59.9/24

Right Out: 9.778 ± 4.838 χ^2/NDF : 21.0/29

Left In: -0.042 ± 2.200 χ^2/NDF : 30.8/22

Left: -5.015 ± 1.527 χ^2/NDF : 100.5/47

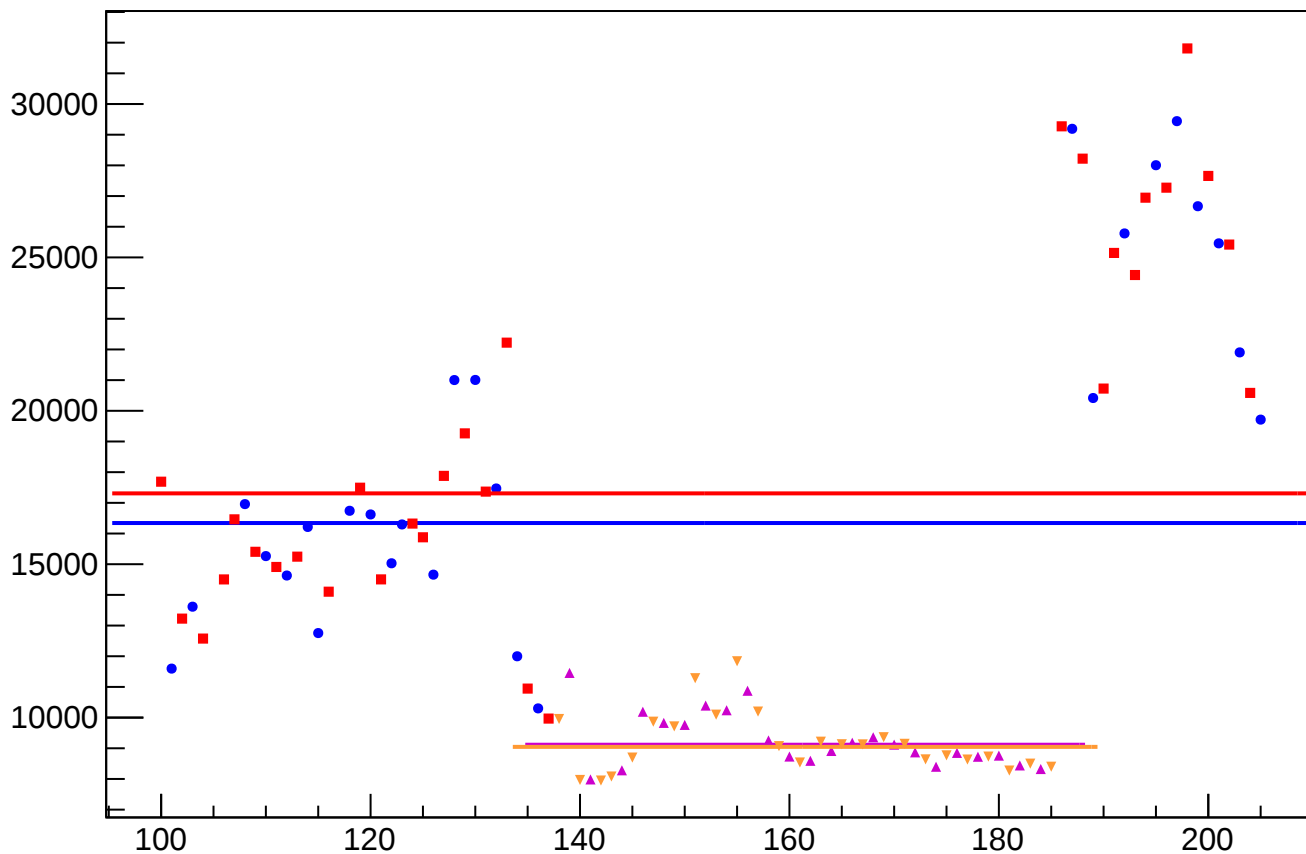
Right: 0.073 ± 3.405 χ^2/NDF : 58.8/55

In: -1.679 ± 1.999 χ^2/NDF : 63.8/48

Out: -6.508 ± 1.943 χ^2/NDF : 94.4/54

All: -4.163 ± 1.393 χ^2/NDF : 161.1/103

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16342.206+/-3.388 χ^2/NDF : 2524031.7/25

Left Out: 9045.871+/-1.500 χ^2/NDF : 328508.5/24

Right Out: 17308.670+/-3.421 χ^2/NDF : 2676485.4/29

Left In: 9115.817+/-1.556 χ^2/NDF : 272471.8/22

Left: 9079.576+/-1.080 χ^2/NDF : 602027.6/47

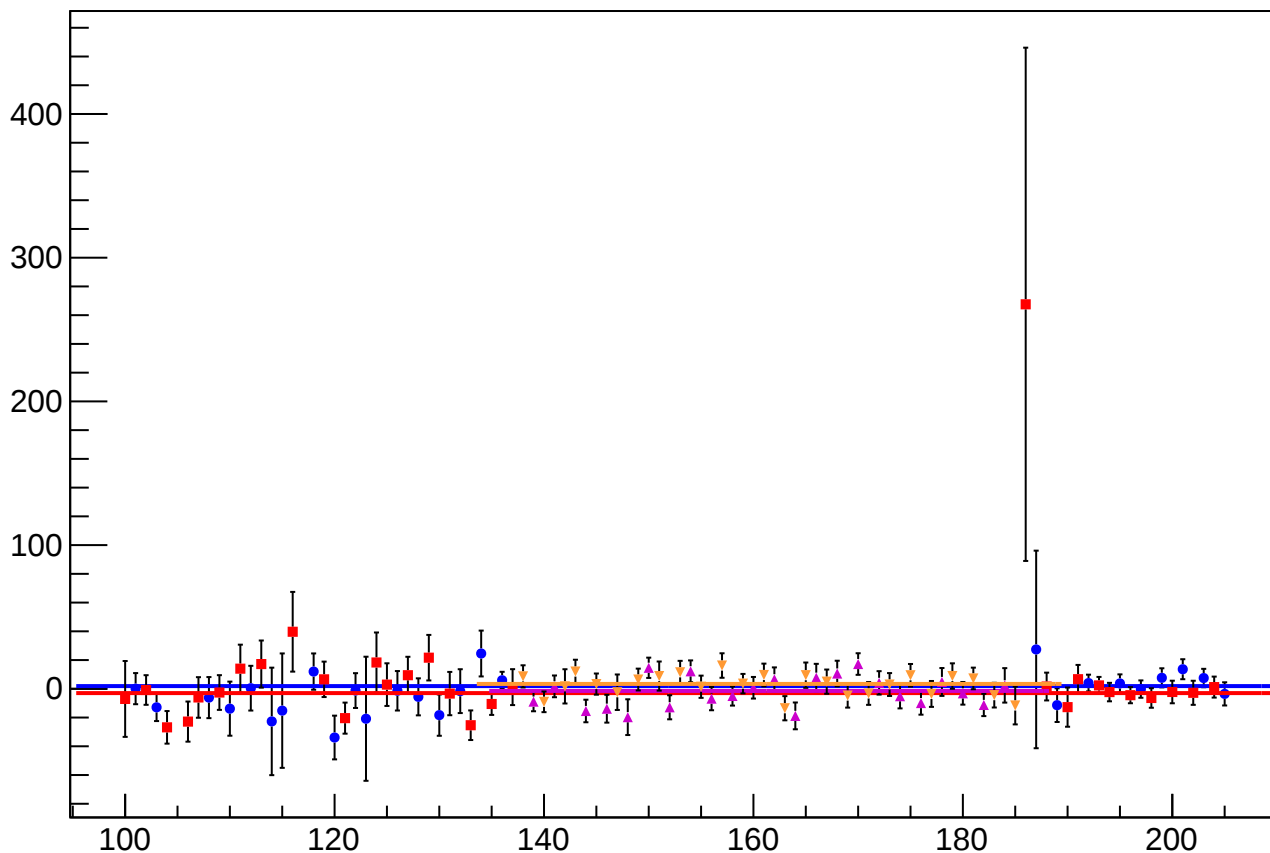
Right: 16820.757+/-2.407 χ^2/NDF : 5240802.1/55

In: 10374.004+/-1.414 χ^2/NDF : 6553104.4/48

Out: 10378.511+/-1.374 χ^2/NDF : 7896992.8/54

All: 10376.322+/-0.985 χ^2/NDF : 14450102.4

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.887 $\pm$ 1.901 χ^2/NDF : 22.0/25

Left Out: 3.387 $\pm$ 1.668 χ^2/NDF : 19.4/24

Right Out: -2.983 $\pm$ 1.839 χ^2/NDF : 30.5/29

Left In: -1.479 $\pm$ 1.710 χ^2/NDF : 36.7/22

Left: 1.015 $\pm$ 1.194 χ^2/NDF : 60.3/47

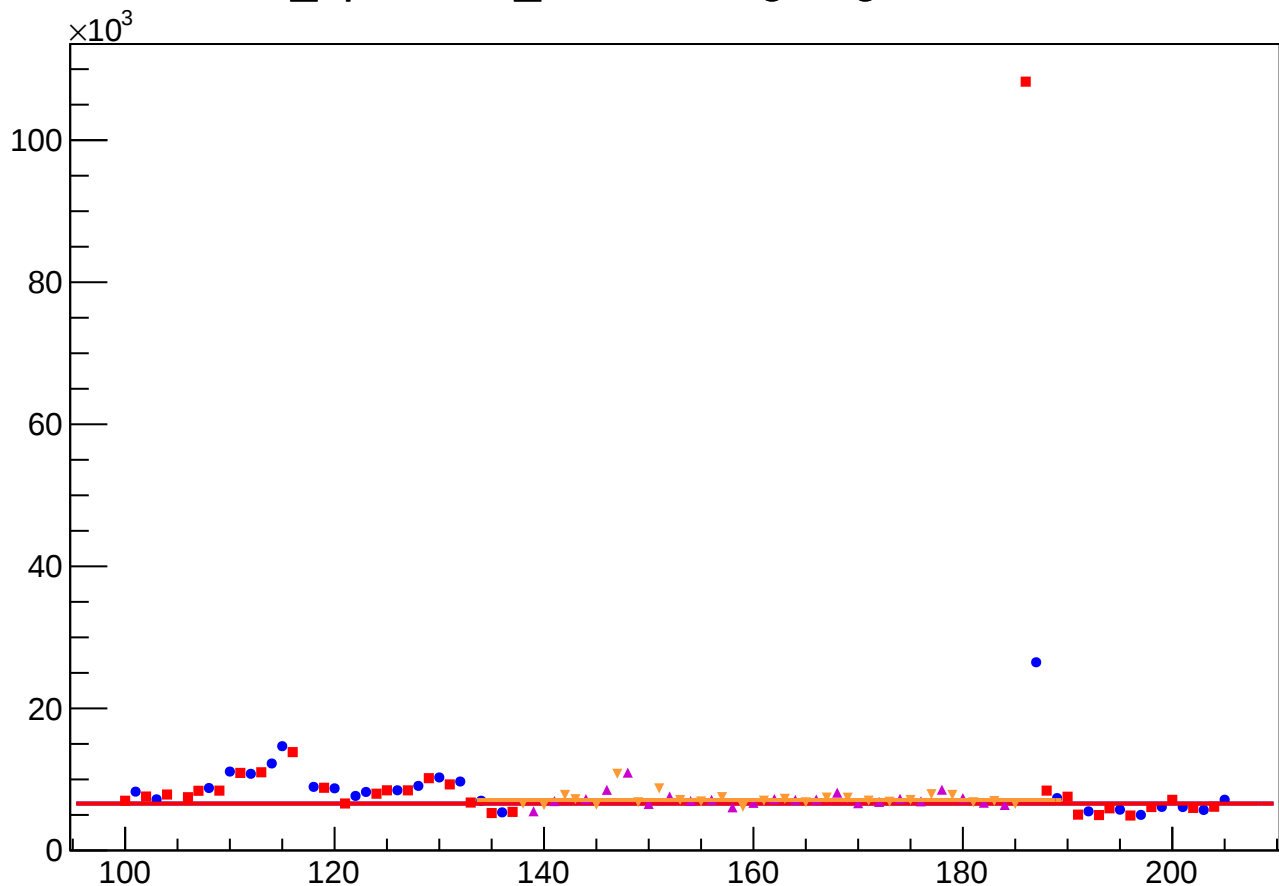
Right: -0.629 $\pm$ 1.322 χ^2/NDF : 56.0/55

In: 0.026 $\pm$ 1.271 χ^2/NDF : 60.5/48

Out: 0.512 $\pm$ 1.235 χ^2/NDF : 56.5/54

All: 0.276 $\pm$ 0.886 χ^2/NDF : 117.1/103

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6609.961+/-1.344 χ^2/NDF : 1526176.7/25

Left Out: 7096.350+/-1.179 χ^2/NDF : 381942.1/24

Right Out: 6597.474+/-1.300 χ^2/NDF : 2104678.4/29

Left In: 7047.269+/-1.209 χ^2/NDF : 517433.5/22

Left: 7072.425+/-0.844 χ^2/NDF : 900219.9/47

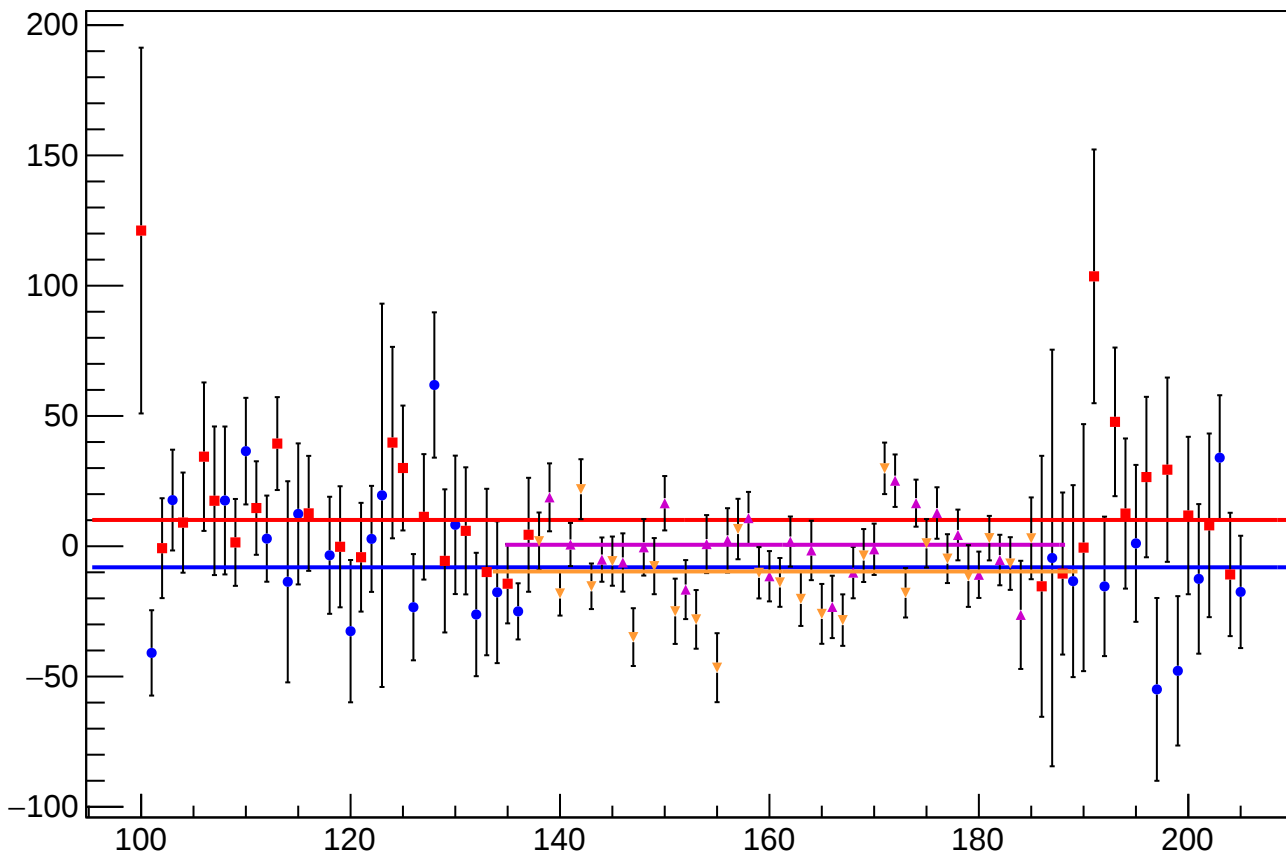
Right: 6603.511+/-0.935 χ^2/NDF : 3630899.7/55

In: 6851.664+/-0.899 χ^2/NDF : 2102101.4/48

Out: 6871.227+/-0.874 χ^2/NDF : 2567369.1/54

All: 6861.726+/-0.627 χ^2/NDF : 4669714.1/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.079 ± 4.516 χ^2/NDF : 31.3/25

Left Out: -9.670 ± 2.061 χ^2/NDF : 57.9/24

Right Out: 10.092 ± 4.516 χ^2/NDF : 19.6/29

Left In: 0.564 ± 2.144 χ^2/NDF : 29.7/22

Left: -4.755 ± 1.486 χ^2/NDF : 99.5/47

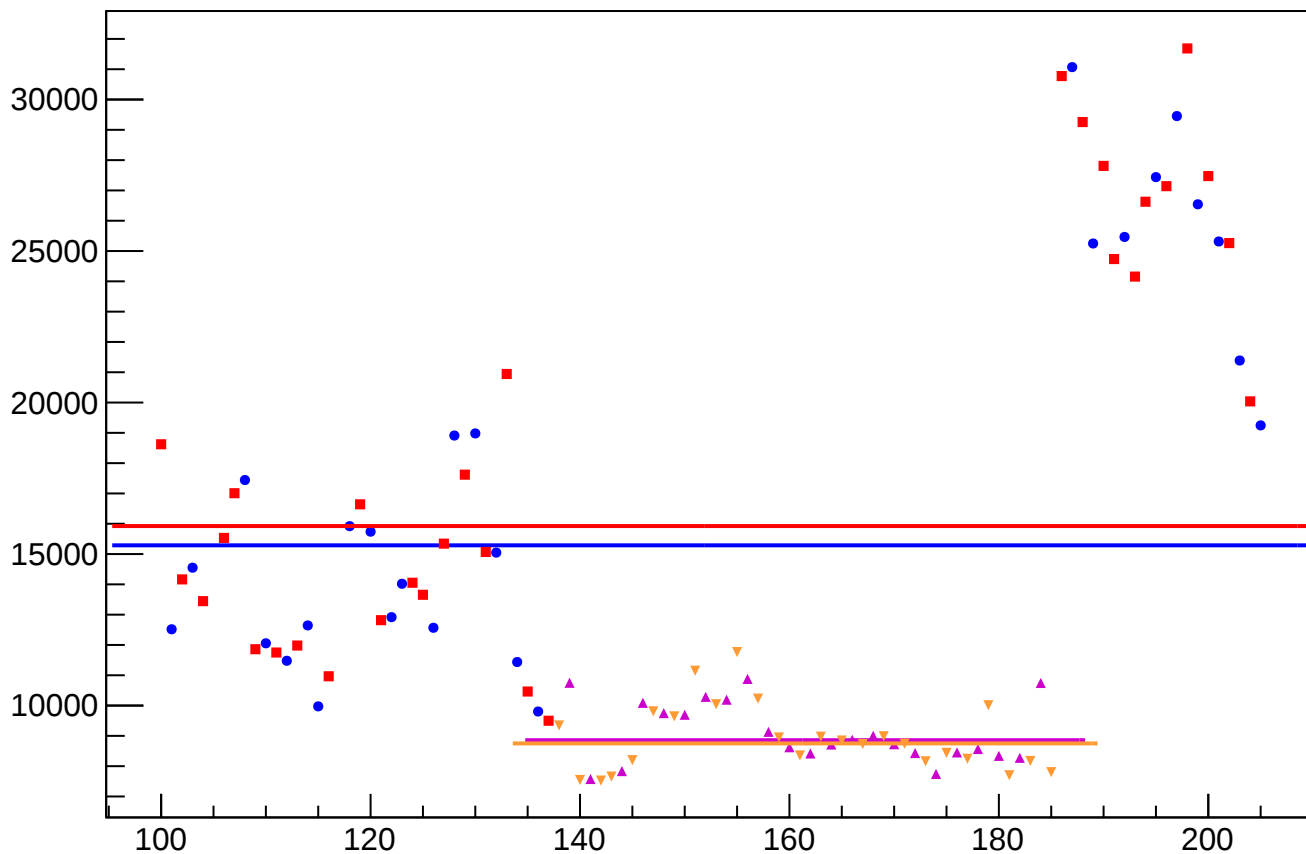
Right: 1.006 ± 3.193 χ^2/NDF : 59.0/55

In: -1.026 ± 1.937 χ^2/NDF : 64.0/48

Out: -6.265 ± 1.875 χ^2/NDF : 93.4/54

All: -3.730 ± 1.347 χ^2/NDF : 161.2/103

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15288.021+/-3.193 χ^2/NDF : 2924994.6/25

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

Right Out: 15923.846+/-3.194 χ^2/NDF : 3375395.3/29

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

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

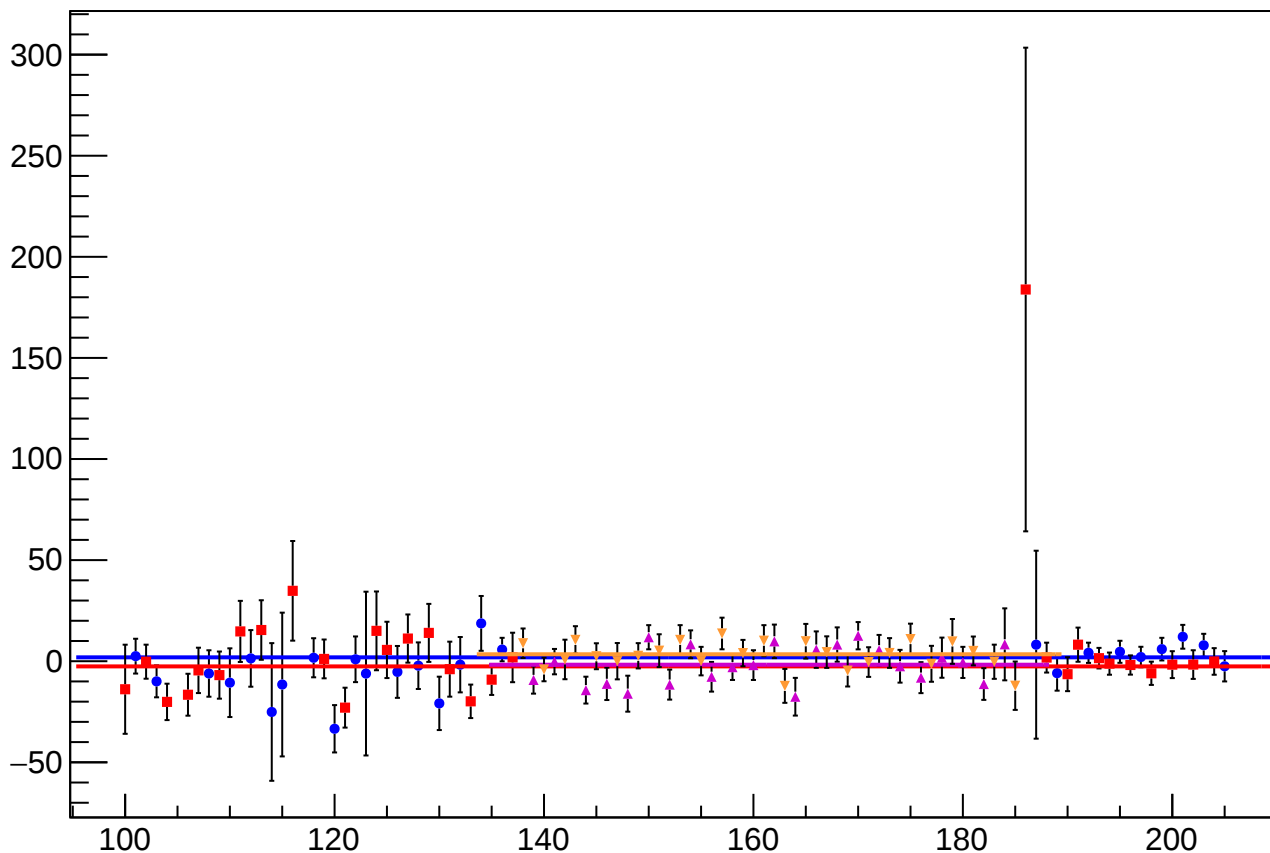
Right: 15605.896+/-2.258 χ^2/NDF : 6320211.3/55

In: 10039.903+/-1.369 χ^2/NDF : 6596563.9/48

Out: 9986.388+/-1.326 χ^2/NDF : 8015311.4/54

All: 10012.278+/-0.952 χ^2/NDF : 14612663.7

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.916 ± 1.645 $\chi^2/\text{NDF}: 24.9/25$

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

Right Out: -2.565 ± 1.567 $\chi^2/\text{NDF}: 30.6/29$

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

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

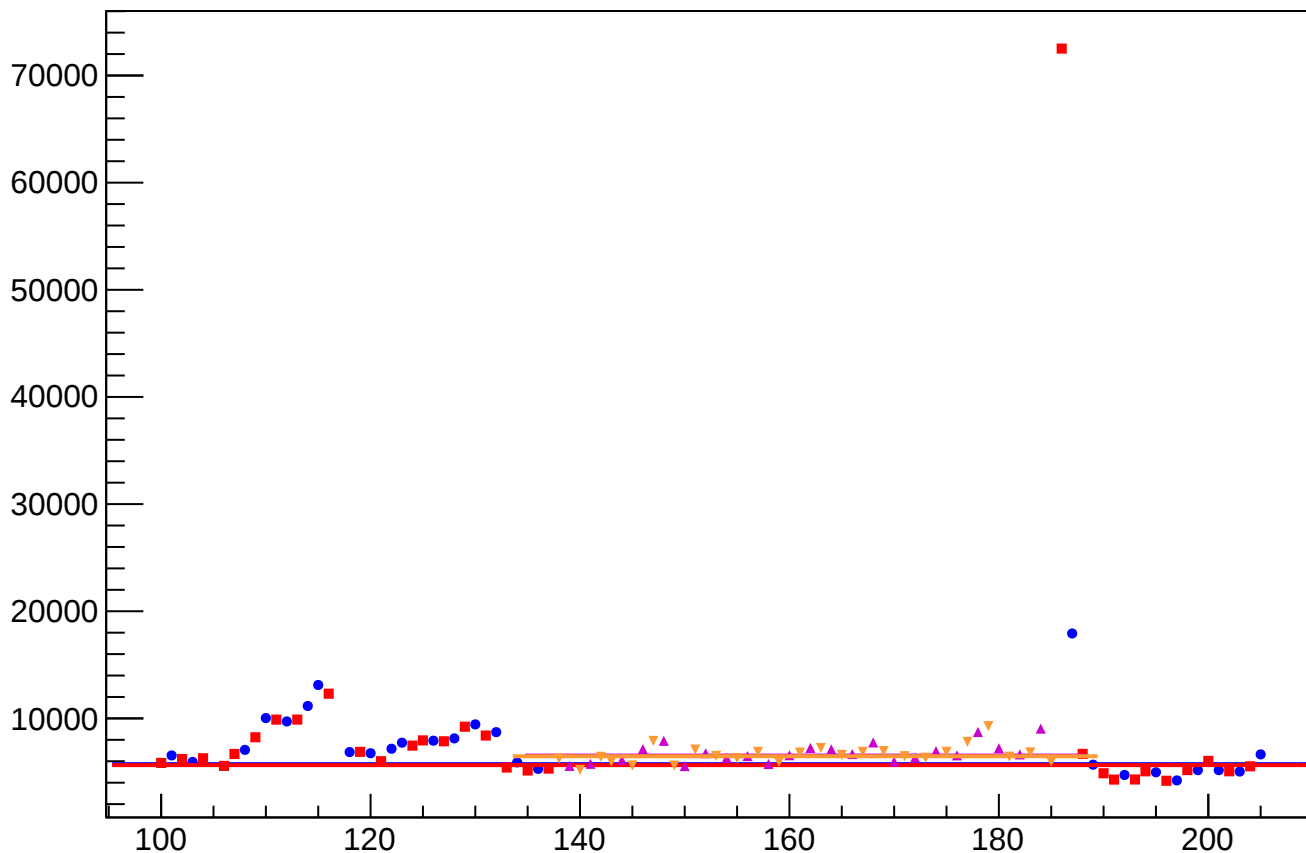
Right: -0.433 ± 1.135 $\chi^2/\text{NDF}: 59.4/55$

In: 0.024 ± 1.142 $\chi^2/\text{NDF}: 61.1/48$

Out: 0.514 ± 1.093 $\chi^2/\text{NDF}: 54.3/54$

All: 0.279 ± 0.790 $\chi^2/\text{NDF}: 115.5/103$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5728.256+/-1.163 χ^2/NDF : 1498463.3/25

Left Out: 6468.872+/-1.079 χ^2/NDF : 487187.3/24

Right Out: 5638.917+/-1.108 χ^2/NDF : 2120016.6/29

Left In: 6530.954+/-1.121 χ^2/NDF : 464668.6/22

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

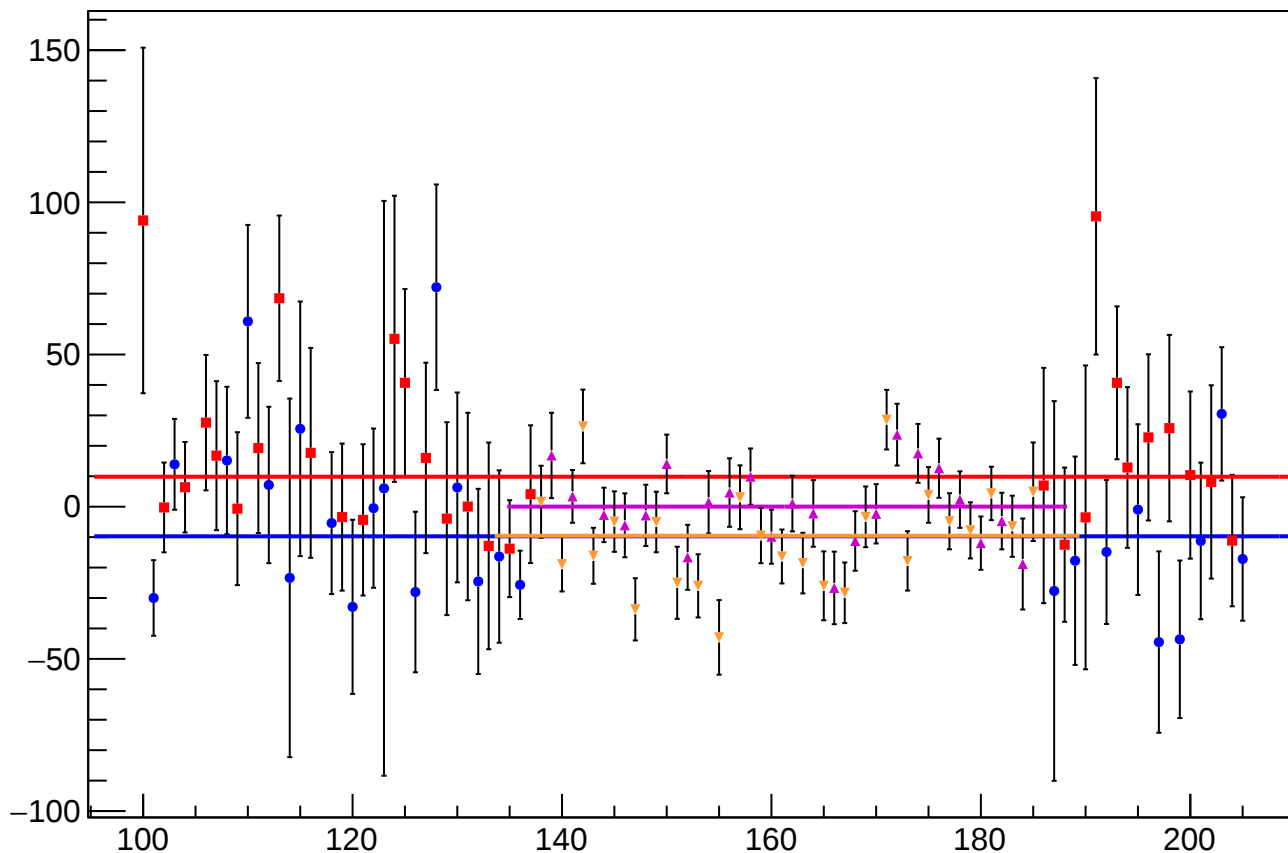
Right: 5681.413+/-0.802 χ^2/NDF : 3621573.0/55

In: 6144.291+/-0.807 χ^2/NDF : 2209963.5/48

Out: 6064.930+/-0.773 χ^2/NDF : 2895271.2/54

All: 6102.884+/-0.558 χ^2/NDF : 5110276.8/10

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.729 $\pm$ 4.608 χ^2/NDF : 29.0/25

Left Out: -9.528 $\pm$ 2.015 χ^2/NDF : 59.6/24

Right Out: 9.838 $\pm$ 4.669 χ^2/NDF : 21.4/29

Left In: 0.027 $\pm$ 2.080 χ^2/NDF : 29.9/22

Left: -4.902 $\pm$ 1.447 χ^2/NDF : 100.3/47

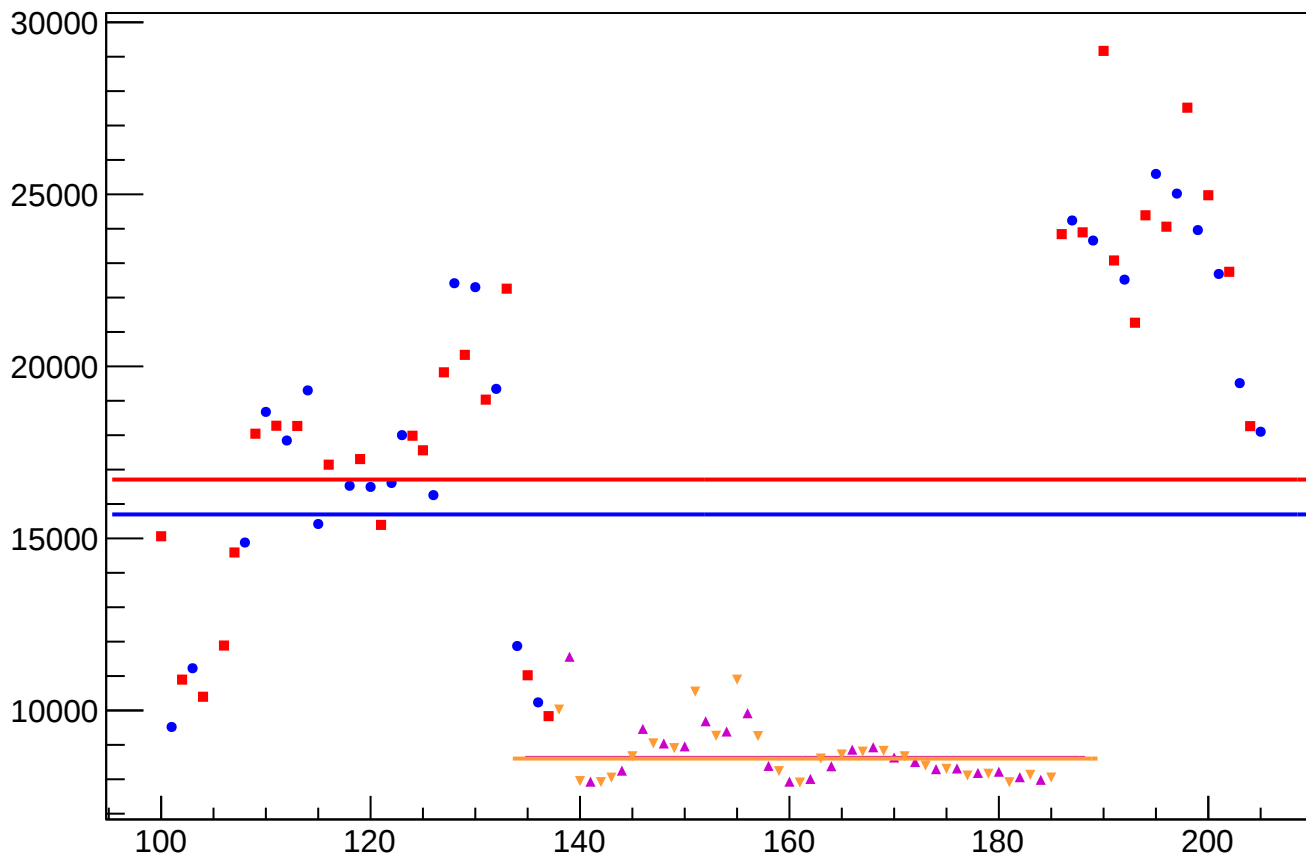
Right: -0.074 $\pm$ 3.280 χ^2/NDF : 59.3/55

In: -1.624 $\pm$ 1.896 χ^2/NDF : 62.6/48

Out: -6.487 $\pm$ 1.850 χ^2/NDF : 95.5/54

All: -4.115 $\pm$ 1.324 χ^2/NDF : 161.5/103

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15697.257+/-3.259 χ^2/NDF : 2628593.5/25

Left Out: 8601.926+/-1.425 χ^2/NDF : 248903.5/24

Right Out: 16710.550+/-3.302 χ^2/NDF : 2647008.1/29

Left In: 8621.975+/-1.471 χ^2/NDF : 230824.4/22

Left: 8611.634+/-1.023 χ^2/NDF : 479823.8/47

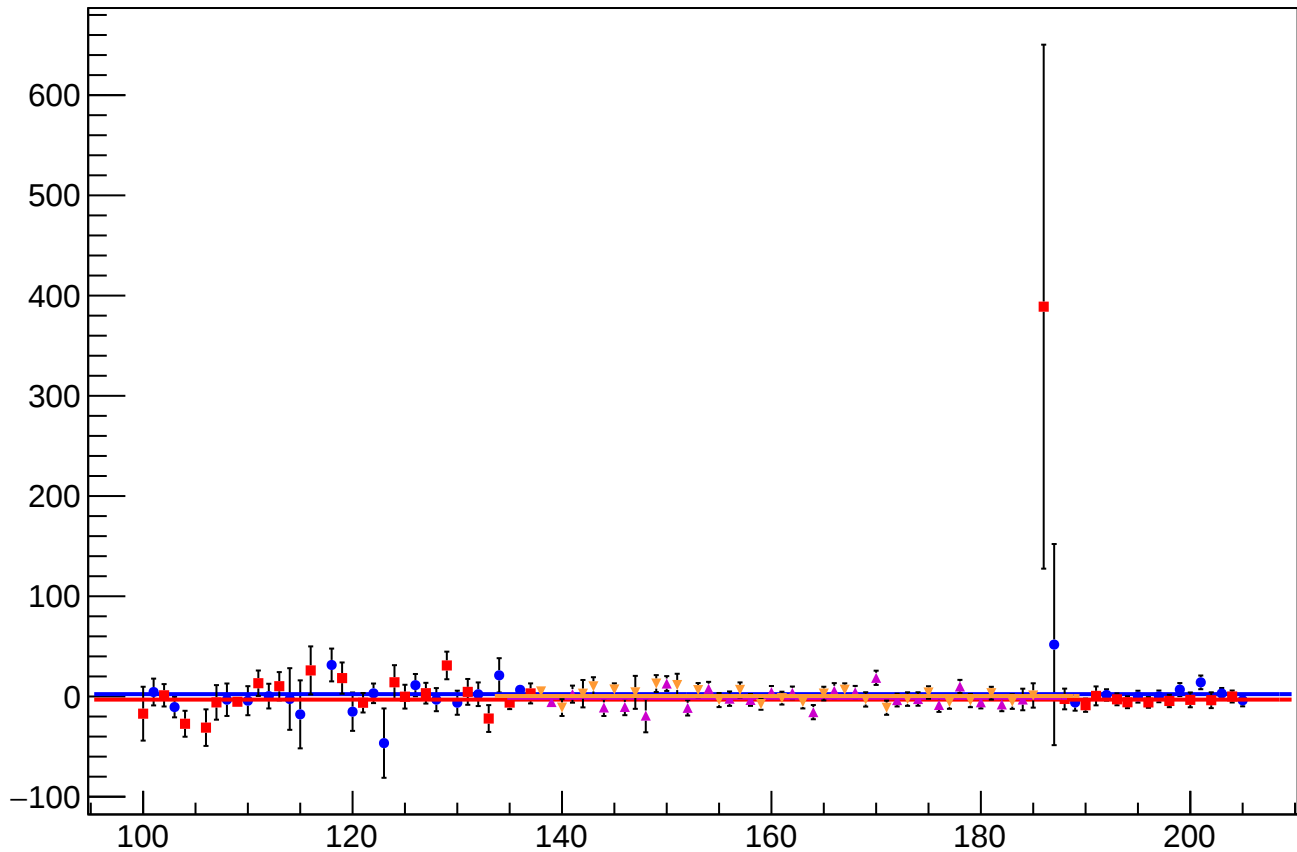
Right: 16197.245+/-2.319 χ^2/NDF : 5323315.1/55

In: 9819.291+/-1.340 χ^2/NDF : 6776088.0/48

Out: 9875.172+/-1.308 χ^2/NDF : 7980307.9/54

All: 9847.909+/-0.936 χ^2/NDF : 14757285.9/102

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.347 ± 1.714 $\chi^2/\text{NDF}: 17.9/25$

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

Right Out: -3.109 ± 1.598 $\chi^2/\text{NDF}: 27.0/29$

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

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

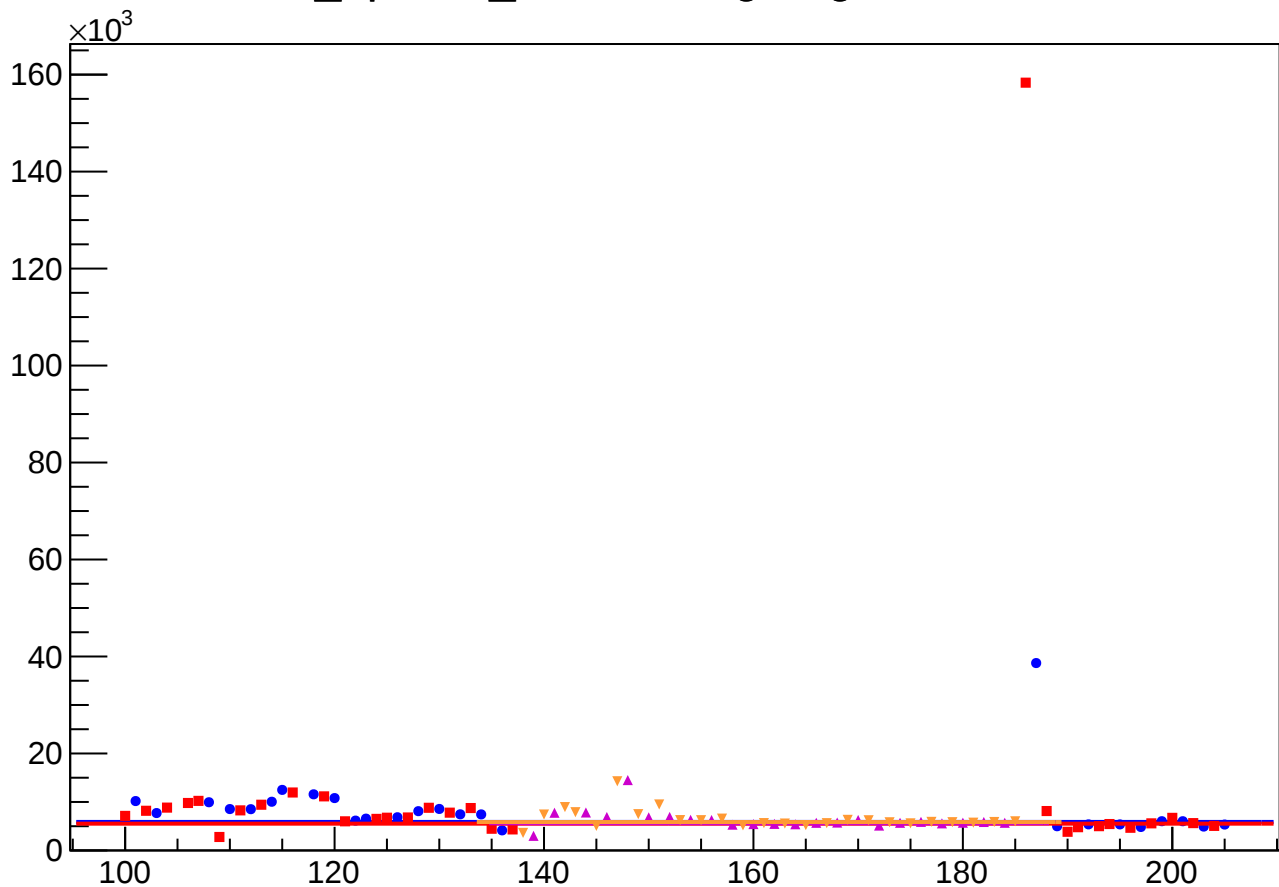
Right: -0.570 ± 1.169 $\chi^2/\text{NDF}: 50.3/55$

In: 0.169 ± 1.087 $\chi^2/\text{NDF}: 53.7/48$

Out: -1.102 ± 1.061 $\chi^2/\text{NDF}: 49.3/54$

All: -0.482 ± 0.759 $\chi^2/\text{NDF}: 103.7/103$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5883.500 $\pm$ 1.212 χ^2/NDF : 1987125.5/25

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

Right Out: 5523.724 $\pm$ 1.130 χ^2/NDF : 3395896.1/29

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

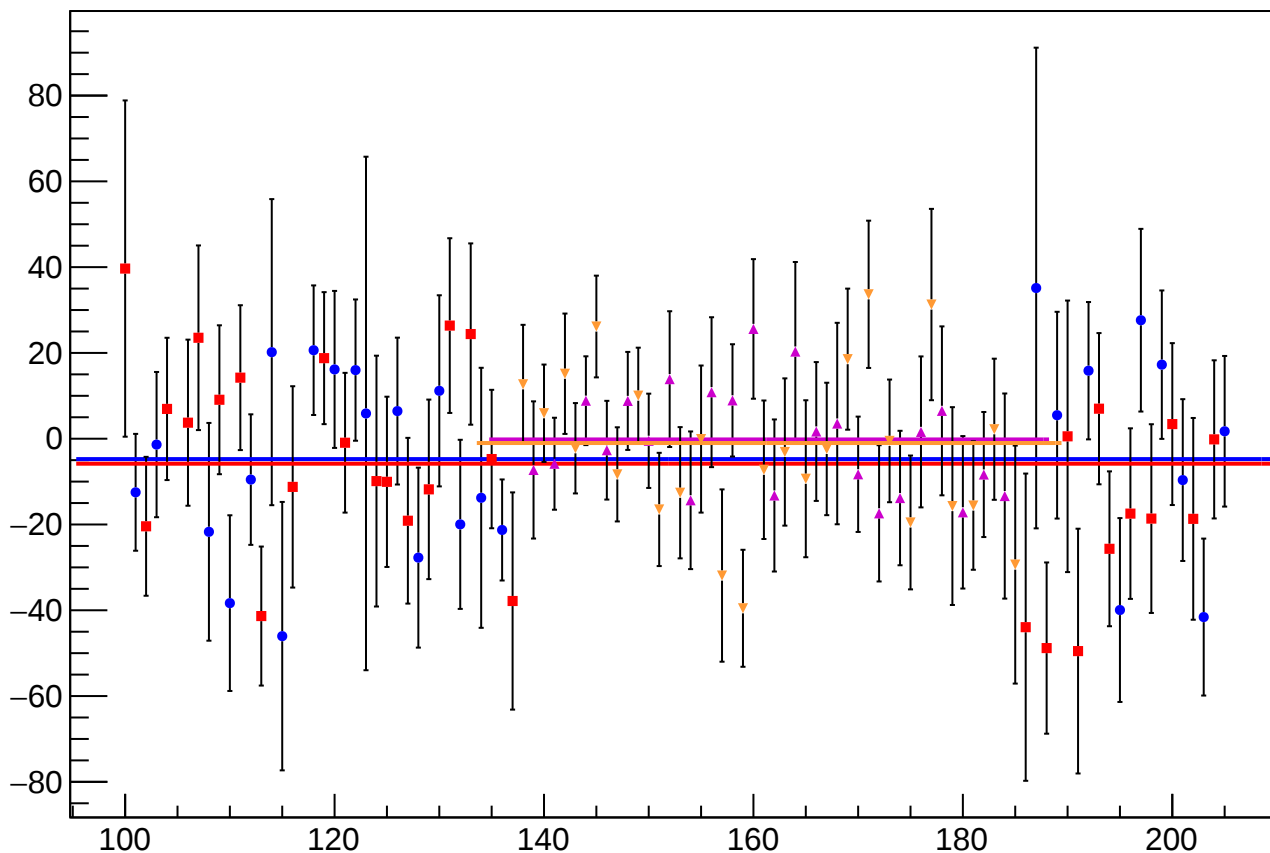
Right: 5691.118 $\pm$ 0.827 χ^2/NDF : 5430162.8/55

In: 5712.221 $\pm$ 0.769 χ^2/NDF : 4110311.8/48

Out: 5711.004 $\pm$ 0.750 χ^2/NDF : 5136337.7/54

All: 5711.598 $\pm$ 0.537 χ^2/NDF : 9246650.8/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.754 ± 3.739 χ^2/NDF : 29.6/25

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

Right Out: -5.826 ± 3.626 χ^2/NDF : 32.5/29

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

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

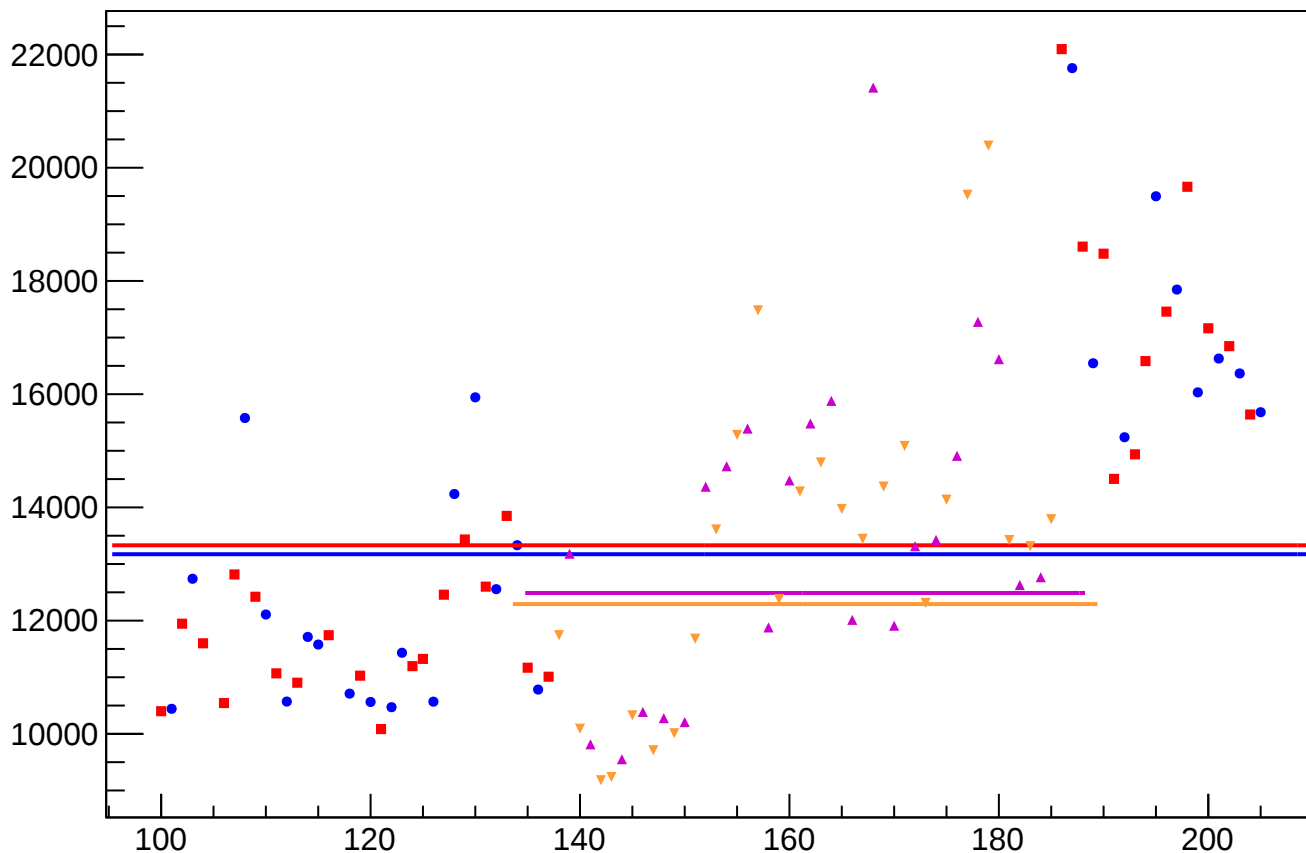
Right: -5.306 ± 2.603 χ^2/NDF : 62.1/55

In: -2.016 ± 2.371 χ^2/NDF : 42.9/48

Out: -2.919 ± 2.285 χ^2/NDF : 67.0/54

All: -2.484 ± 1.645 χ^2/NDF : 109.9/103

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13173.170+/-2.644

χ^2/NDF : 1101572.0/25

Left: 12386.599+/-1.501 χ^2/NDF : 2861298.1/47

Right: 13254.234+/-1.841 χ^2/NDF : 2312785.1/55

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

In: 12764.138+/-1.677 χ^2/NDF : 2496111.0/48

Right Out: 13330.507+/-2.564 χ^2/NDF : 1209388.2/29

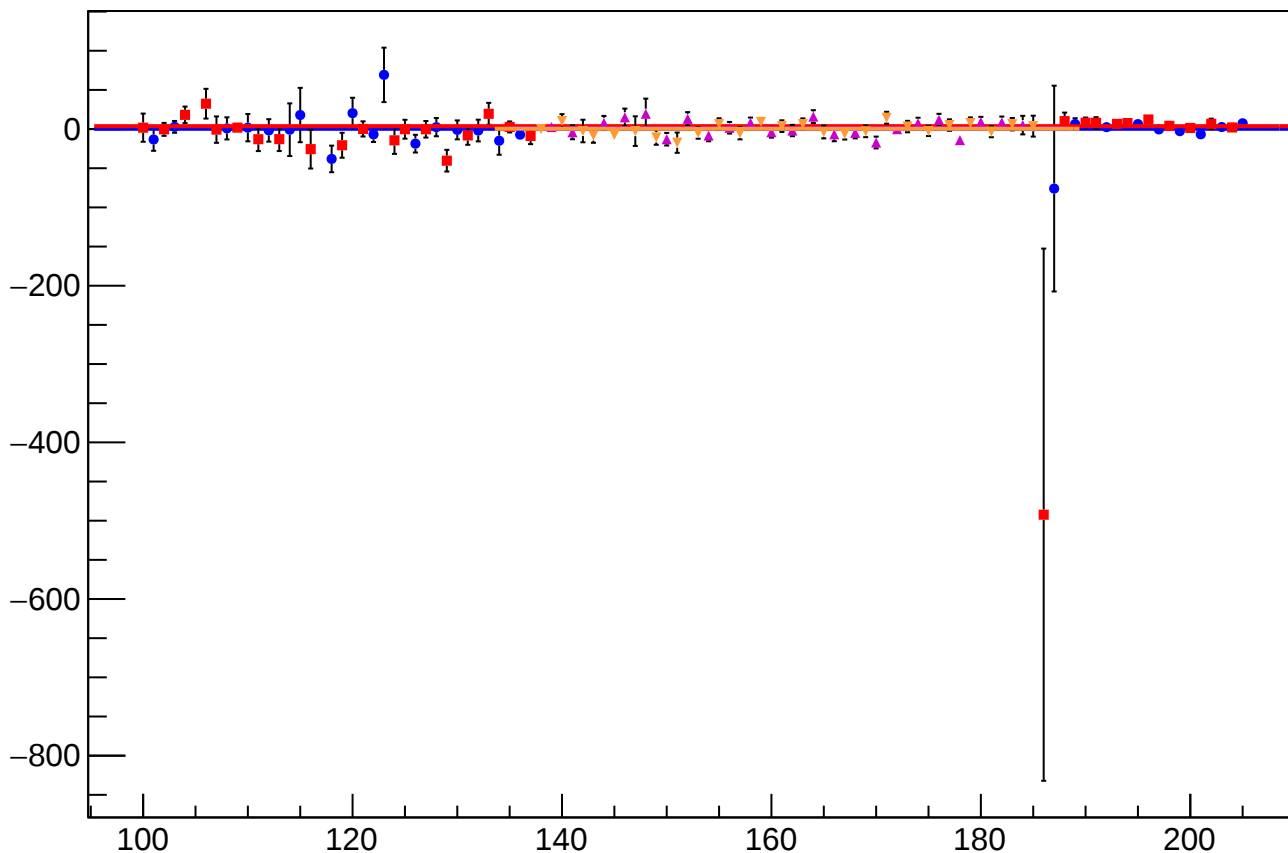
Out: 12704.475+/-1.615 χ^2/NDF : 2810751.7/54

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12733.195+/-1.163 χ^2/NDF : 5307519.3/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.354 ± 1.471 χ^2/NDF : 26.0/25

Left Out: 0.410 ± 1.435 χ^2/NDF : 19.3/24

Right Out: 3.739 ± 1.410 χ^2/NDF : 33.8/29

Left In: 1.278 ± 1.386 χ^2/NDF : 34.0/22

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

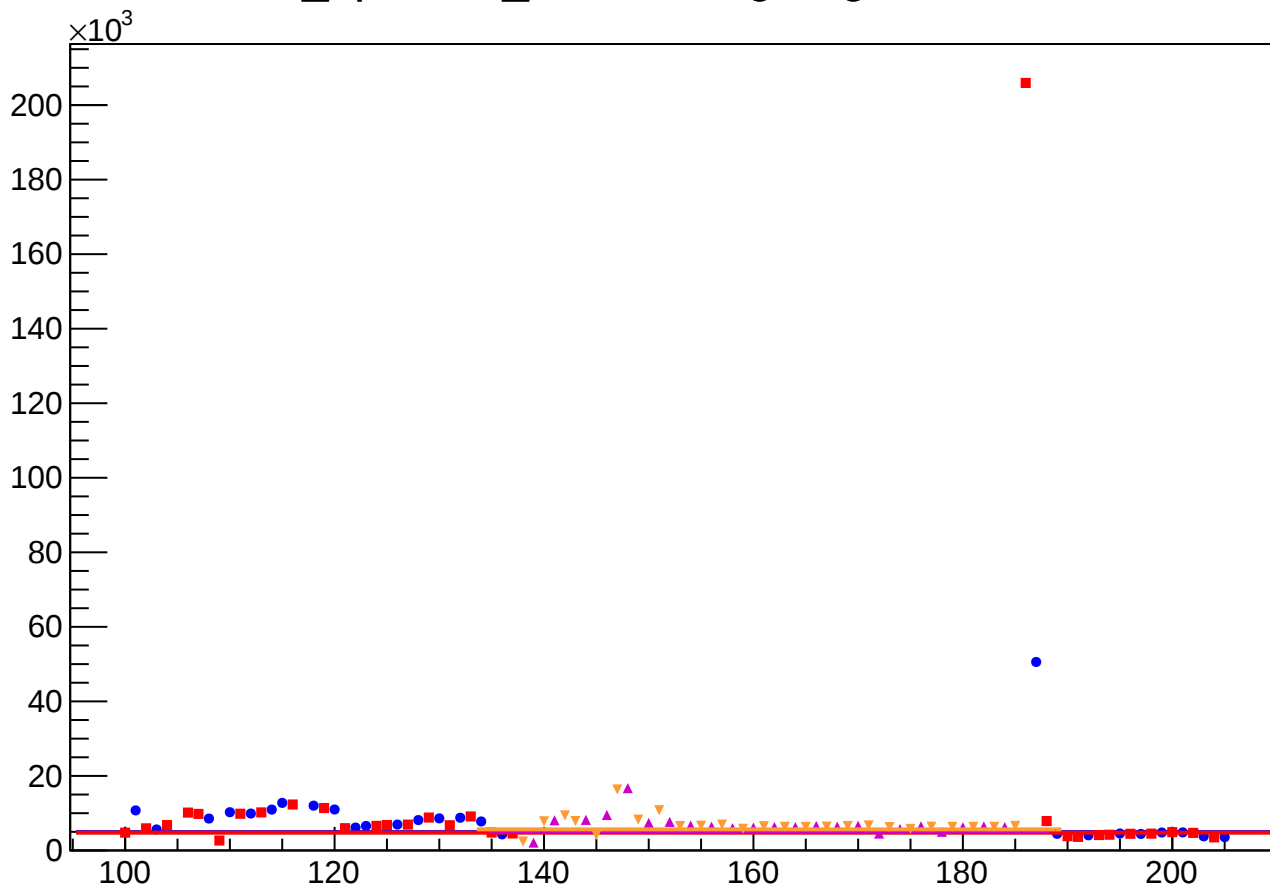
Right: 2.118 ± 1.018 χ^2/NDF : 62.5/55

In: 0.844 ± 1.009 χ^2/NDF : 60.2/48

Out: 2.104 ± 1.005 χ^2/NDF : 55.8/54

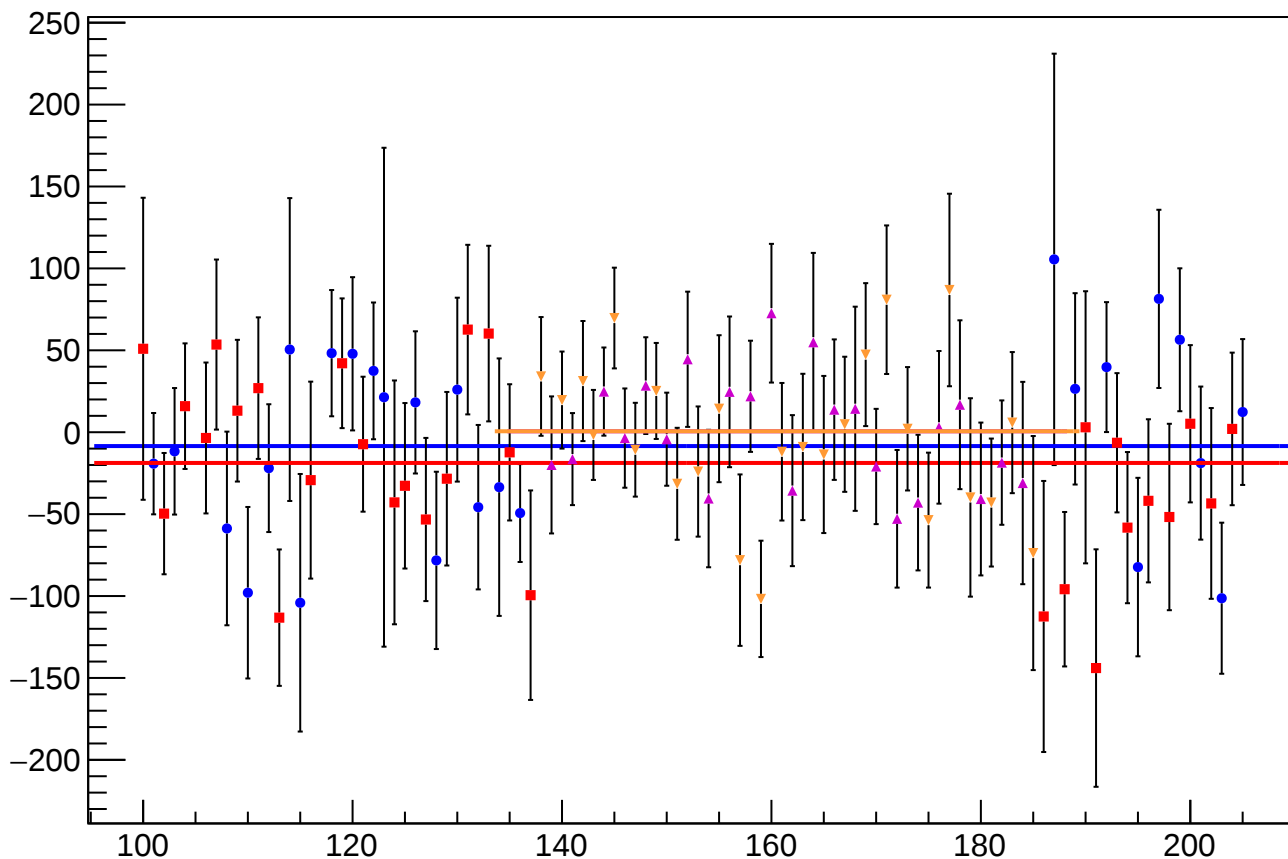
All: 1.476 ± 0.712 χ^2/NDF : 116.7/103

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4921.908 $\pm$ 1.040	χ^2/NDF : 3005778.7/25	Left: 5409.966 $\pm$ 0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639 $\pm$ 1.014	χ^2/NDF : 4124124.3/24	Right: 4849.066 $\pm$ 0.720	χ^2/NDF : 6718472.4/55
Right Out: 4782.151 $\pm$ 0.997	χ^2/NDF : 3703282.0/29	In: 5059.028 $\pm$ 0.713	χ^2/NDF : 8388644.8/48
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5211.256 $\pm$ 0.711	χ^2/NDF : 8204620.4/54
		All: 5135.376 $\pm$ 0.504	χ^2/NDF : 16616115.1/13

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.454 ± 9.307 $\chi^2/\text{NDF}: 29.4/25$

Left Out: 0.580 ± 7.691 $\chi^2/\text{NDF}: 31.0/24$

Right Out: -18.756 ± 9.033 $\chi^2/\text{NDF}: 29.4/29$

Left In: 0.565 ± 8.015 $\chi^2/\text{NDF}: 14.3/22$

Left: 0.572 ± 5.549 $\chi^2/\text{NDF}: 45.3/47$

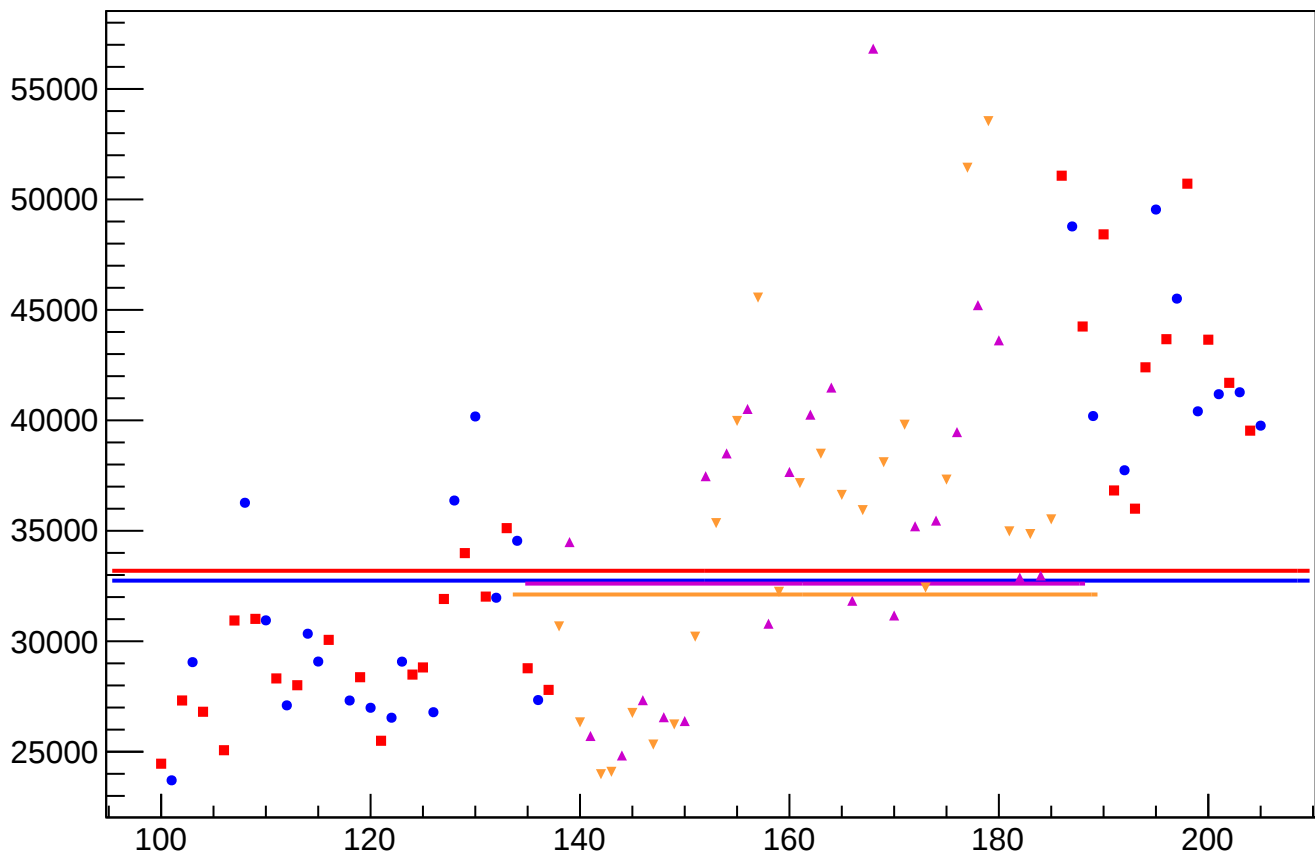
Right: -13.759 ± 6.482 $\chi^2/\text{NDF}: 59.4/55$

In: -3.276 ± 6.073 $\chi^2/\text{NDF}: 44.2/48$

Out: -7.546 ± 5.856 $\chi^2/\text{NDF}: 63.0/54$

All: -5.488 ± 4.215 $\chi^2/\text{NDF}: 107.4/103$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32744.643+/-6.581

χ^2/NDF : 1152332.7/25

Left: 32353.483+/-3.924 χ^2/NDF : 2939154.5/47

Right: 32974.353+/-4.583 χ^2/NDF : 2393032.5/55

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

In: 32667.395+/-4.294 χ^2/NDF : 2551048.4/48

Right Out: 33190.768+/-6.388

χ^2/NDF : 1238333.5/29

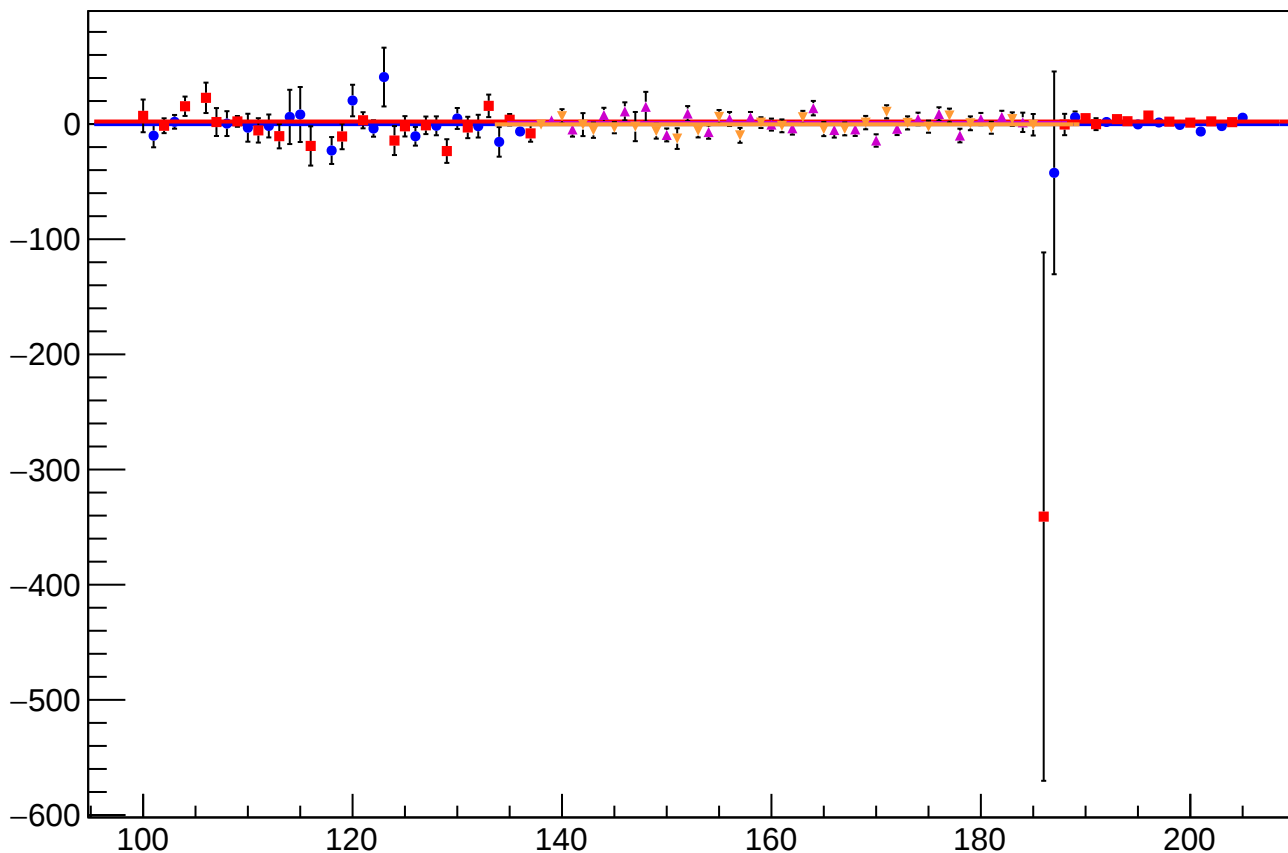
Out: 32568.331+/-4.141 χ^2/NDF : 2791451.7/54

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

All: 32616.060+/-2.981 χ^2/NDF : 5342775.9/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -0.078 ± 0.948 χ^2/NDF : 29.9/25

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

Right Out: 2.200 ± 0.979 χ^2/NDF : 29.1/29

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

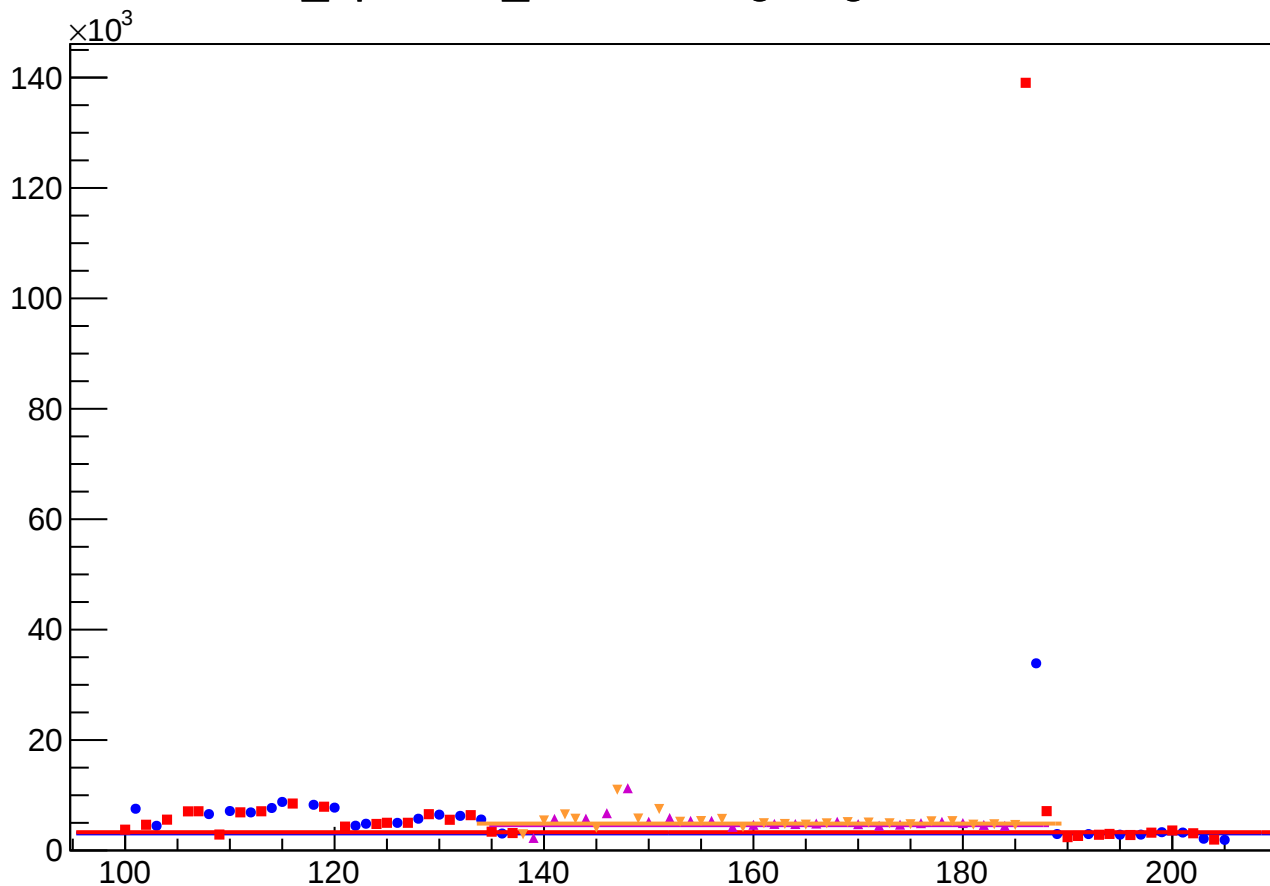
Right: 1.024 ± 0.681 χ^2/NDF : 61.8/55

In: 0.326 ± 0.733 χ^2/NDF : 66.4/48

Out: 1.191 ± 0.752 χ^2/NDF : 49.7/54

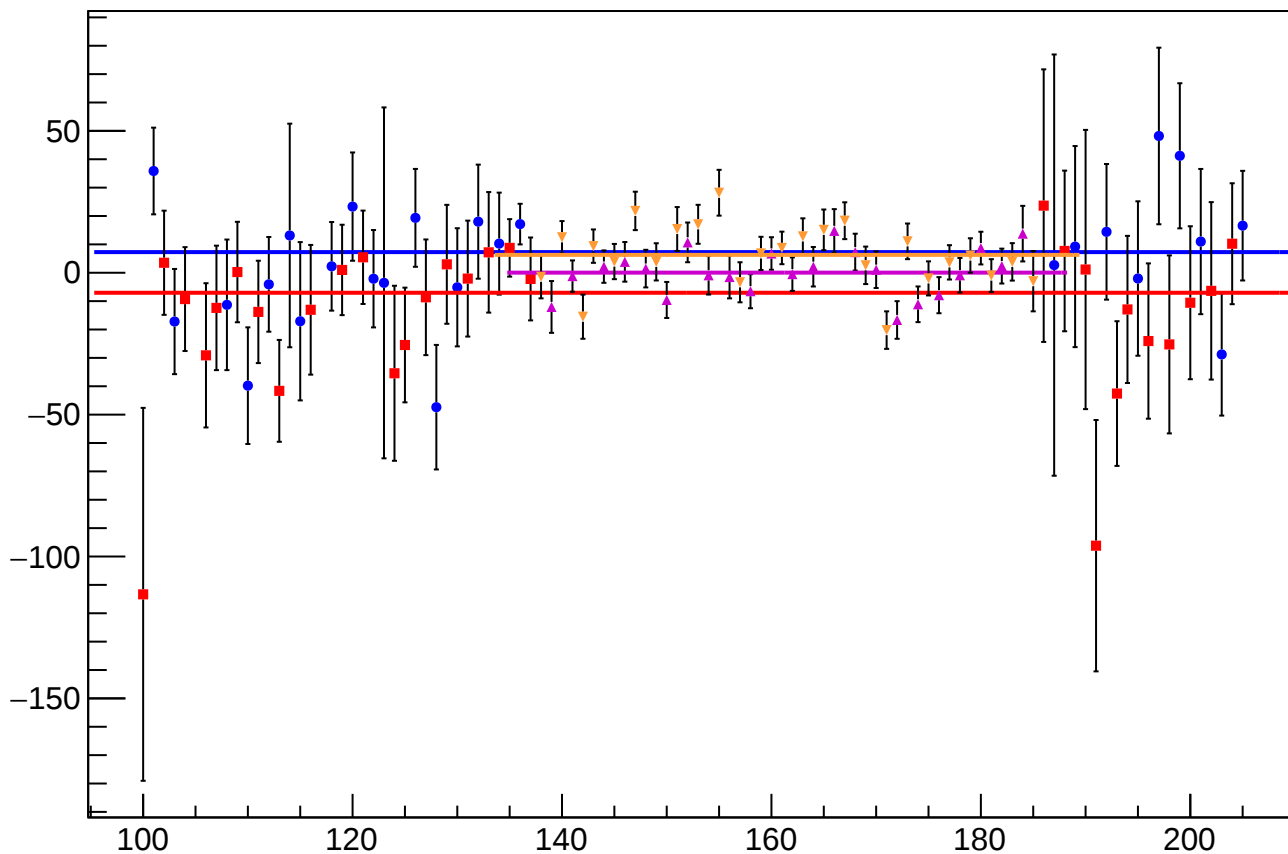
All: 0.748 ± 0.525 χ^2/NDF : 116.8/103

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3089.834 ± 0.671	$\chi^2/\text{NDF}: 4200006.1/25$	Left: 4722.017 ± 0.582	$\chi^2/\text{NDF}: 4049906.1/47$
Left Out: 4866.528 ± 0.829	$\chi^2/\text{NDF}: 1511486.2/24$	Right: 3194.412 ± 0.482	$\chi^2/\text{NDF}: 8578395.0/55$
Right Out: 3305.906 ± 0.693	$\chi^2/\text{NDF}: 4328154.8/29$	In: 3691.713 ± 0.518	$\chi^2/\text{NDF}: 8675523.5/48$
Left In: 4582.193 ± 0.816	$\chi^2/\text{NDF}: 2478681.0/22$	Out: 3947.023 ± 0.532	$\chi^2/\text{NDF}: 7925950.2/54$
		All: 3816.088 ± 0.371	$\chi^2/\text{NDF}: 16719780.8/1$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.276 $\pm$ 3.693 χ^2 /NDF: 29.5/25

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

Right Out: -7.049 $\pm$ 3.819 χ^2 /NDF: 21.8/29

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

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

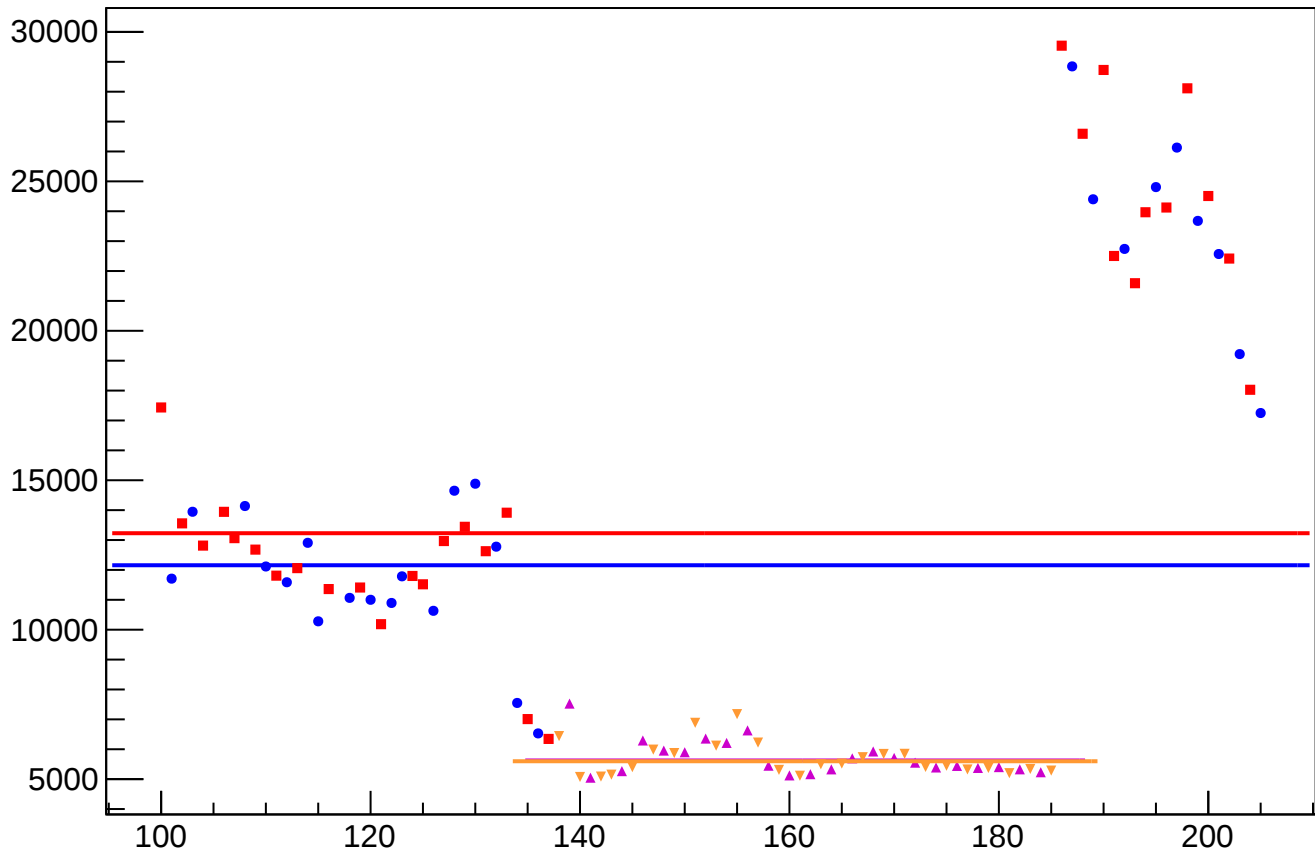
Right: 0.353 $\pm$ 2.655 χ^2 /NDF: 58.6/55

In: 0.905 $\pm$ 1.274 χ^2 /NDF:62.9/48

Out: 4.892 $\pm$ 1.241 χ^2 /NDF:89.4/54

All: 2.951 $\pm$ 0.889 χ^2 /NDF: 157.4/103

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12156.291 ± 2.612 $\chi^2/\text{NDF}: 4178429.6/25$

Left Out: 5598.786 ± 0.928 $\chi^2/\text{NDF}: 283253.4/24$

Right Out: 13227.988 ± 2.701 $\chi^2/\text{NDF}: 4276395.8/29$

Left In: 5625.163 ± 0.960 $\chi^2/\text{NDF}: 272563.5/22$

Left: 5611.528 ± 0.667 $\chi^2/\text{NDF}: 556207.1/47$

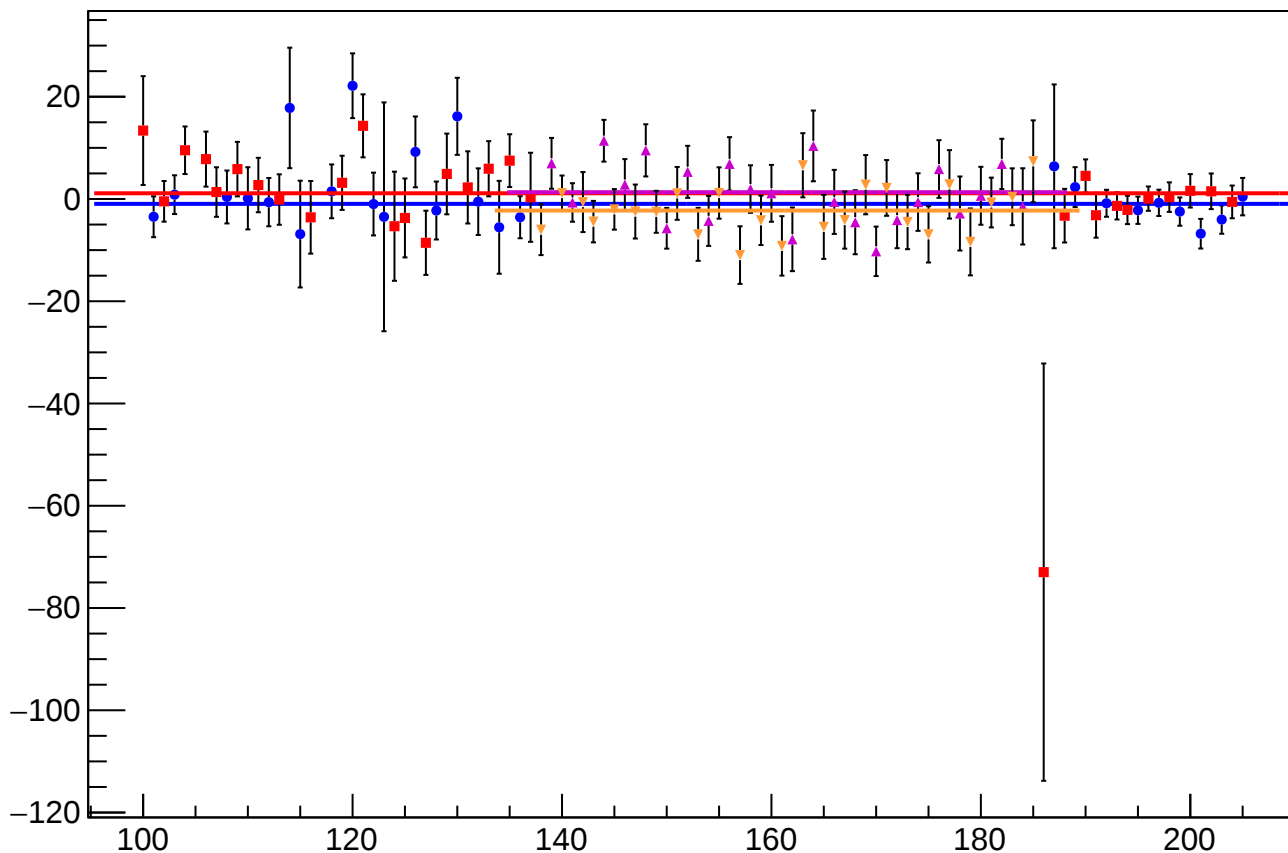
Right: 12674.186 ± 1.877 $\chi^2/\text{NDF}: 8536198.4/55$

In: 6402.671 ± 0.901 $\chi^2/\text{NDF}: 9960280.9/48$

Out: 6404.638 ± 0.878 $\chi^2/\text{NDF}: 11696890.7/54$

All: 6403.680 ± 0.629 $\chi^2/\text{NDF}: 21657174.0/102$

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.953 ± 0.824 χ^2/NDF : 32.0/25

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

Right Out: 1.116 ± 0.794 χ^2/NDF : 27.0/29

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

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

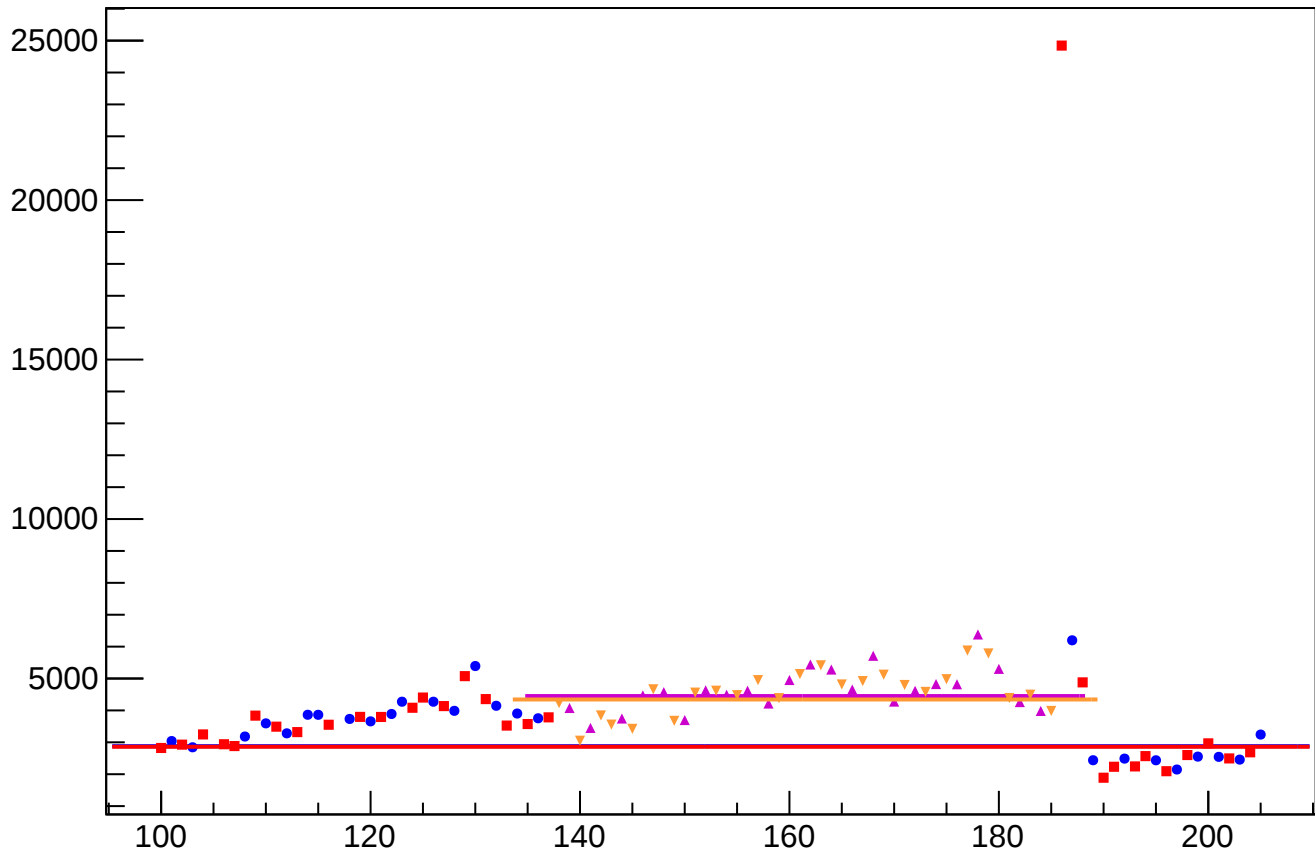
Right: 0.120 ± 0.572 χ^2/NDF : 62.3/55

In: -0.116 ± 0.656 χ^2/NDF : 65.5/48

Out: -0.142 ± 0.629 χ^2/NDF : 49.3/54

All: -0.129 ± 0.454 χ^2/NDF : 114.7/103

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2878.293+/-0.583 χ^2/NDF : 1292422.1/25

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

Right Out: 2860.823+/-0.561 χ^2/NDF : 2263531.1/29

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

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

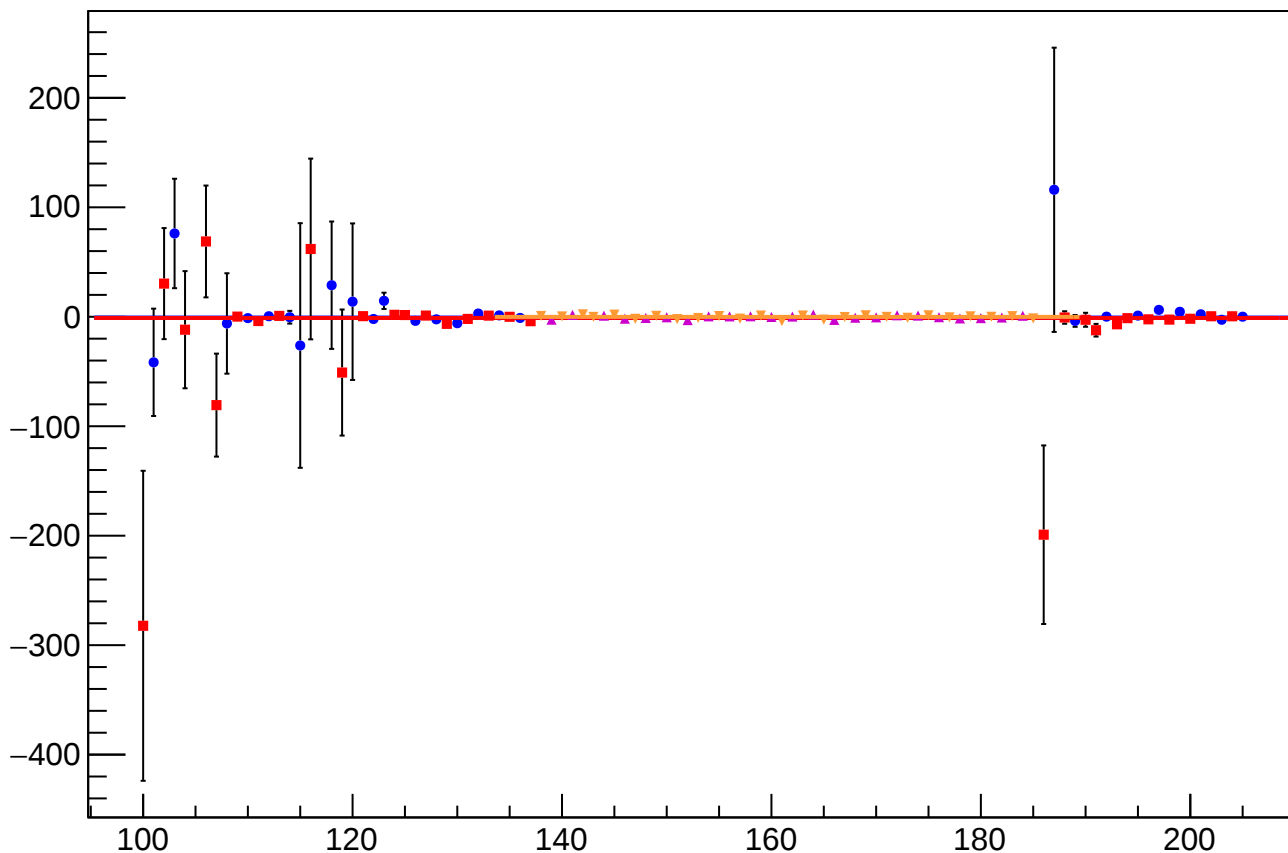
Right: 2869.229+/-0.404 χ^2/NDF : 3556419.4/55

In: 3455.467+/-0.464 χ^2/NDF : 4655978.5/48

Out: 3412.886+/-0.445 χ^2/NDF : 5853094.6/54

All: 3433.285+/-0.321 χ^2/NDF : 10513466.9/1

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.716 ± 0.629 $\chi^2/\text{NDF}: 26.0/25$

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

Right Out: -1.088 ± 0.617 $\chi^2/\text{NDF}: 34.8/29$

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

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

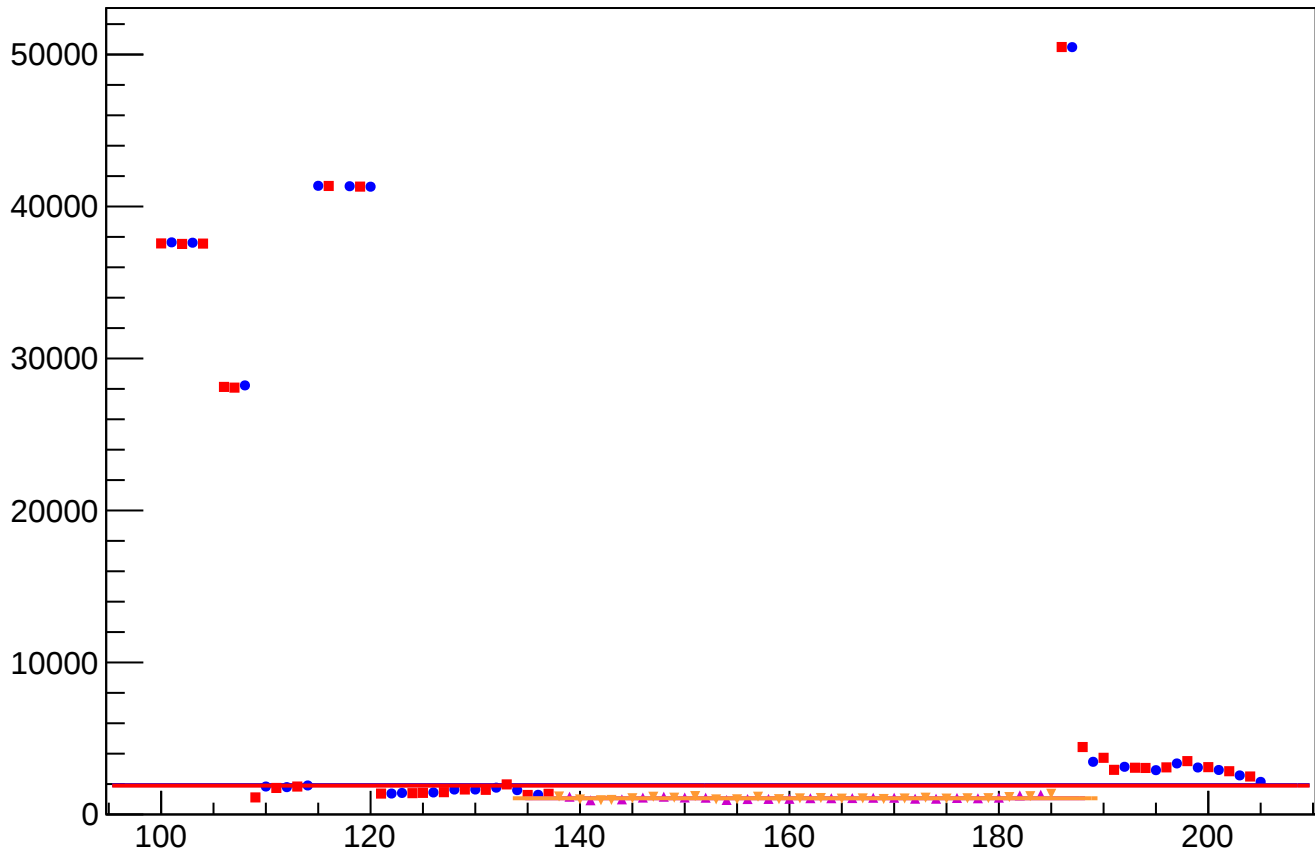
Right: -0.905 ± 0.440 $\chi^2/\text{NDF}: 61.0/55$

In: -0.325 ± 0.238 $\chi^2/\text{NDF}: 53.6/48$

Out: -0.231 ± 0.231 $\chi^2/\text{NDF}: 71.5/54$

All: -0.277 ± 0.166 $\chi^2/\text{NDF}: 125.2/103$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1930.626+/-0.444 χ^2/NDF : 6919800.7/25

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

Right Out: 1898.589+/-0.436 χ^2/NDF : 8339581.5/29

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

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

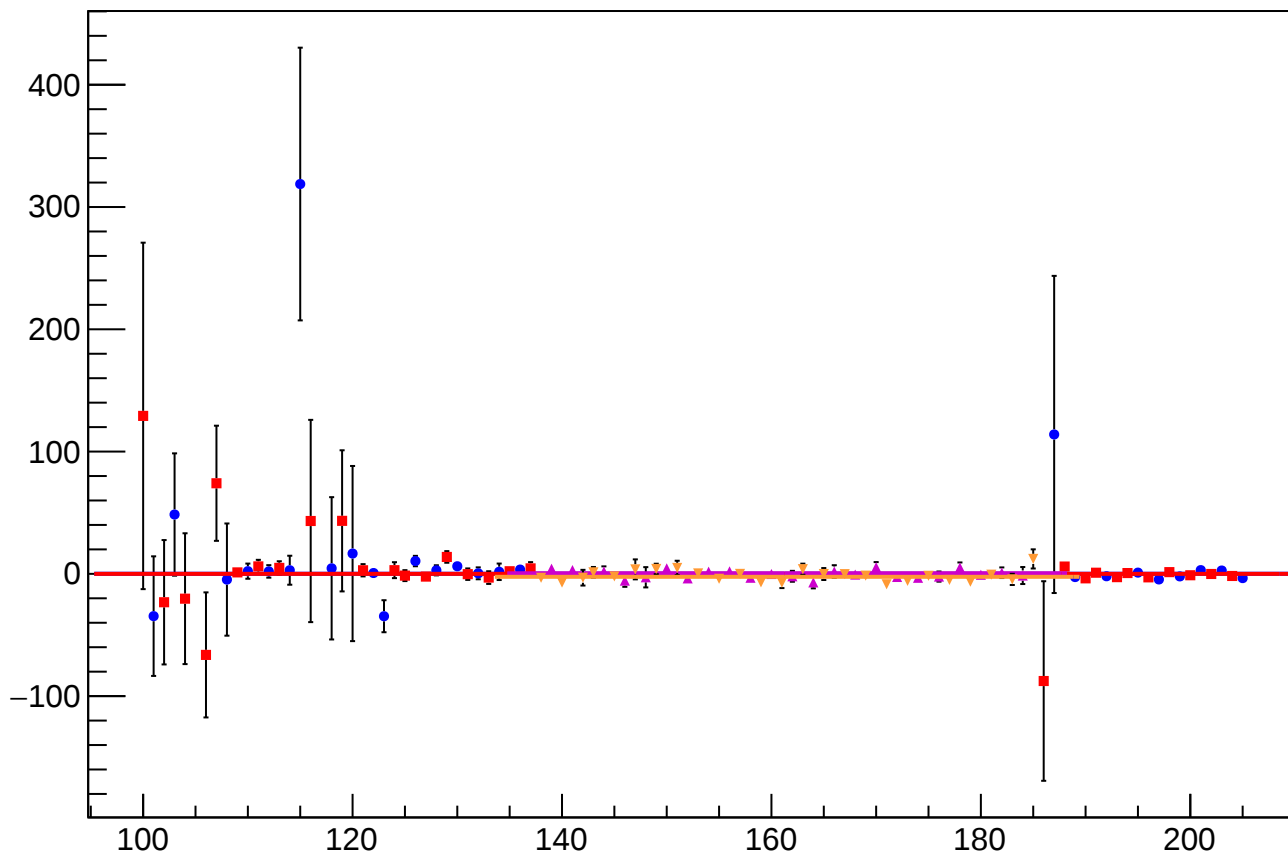
Right: 1914.302+/-0.311 χ^2/NDF : 15262029.3/55

In: 1190.018+/-0.168 χ^2/NDF : 10324250.7/48

Out: 1181.619+/-0.163 χ^2/NDF : 11669964.3/54

All: 1185.694+/-0.117 χ^2/NDF : 21995498.9/102

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.075 $\pm$ 0.640 χ^2 /NDF: 44.7/25

Left Out: -2.422 $\pm$ 0.811 χ^2 /NDF:21.2/24

Right Out: -0.005 $\pm$ 0.665 χ^2 /NDF: 29.2/29

Left In: 0.468 $\pm$ 0.843 χ^2 /NDF:15.5/22

Left: -1.033 $\pm$ 0.584 χ^2 /NDF: 42.8/47

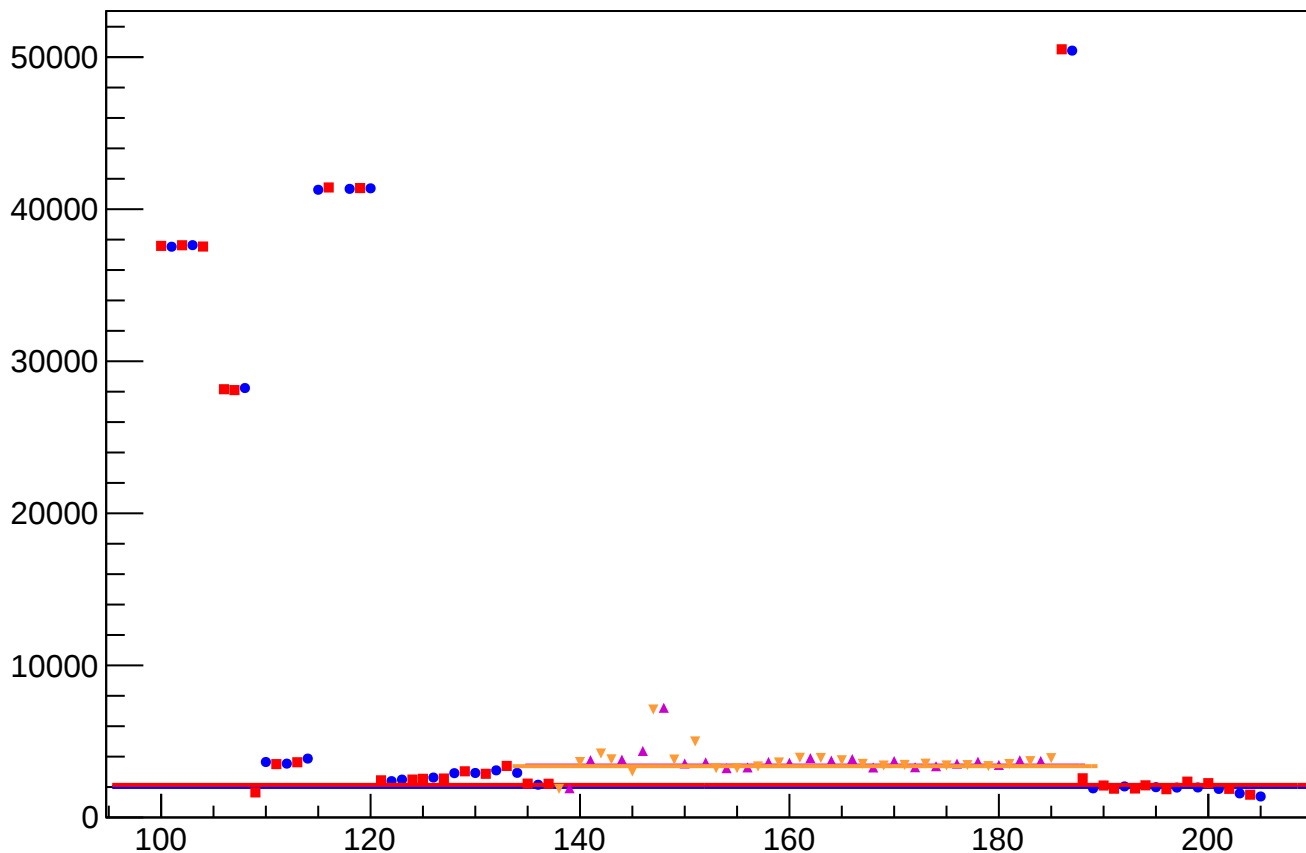
Right: 0.036 $\pm$ 0.461 χ^2 /NDF: 74.0/55

In: 0.219 $\pm$ 0.510 χ^2 /NDF:60.4/48

Out: -0.978 $\pm$ 0.514 χ^2 /NDF:55.8/54

All: -0.374 $\pm$ 0.362 χ^2 /NDF: 118.9/103

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2006.543+/-0.453 χ^2/NDF : 5998277.3/25

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

Right Out: 2142.015+/-0.470 χ^2/NDF : 6216374.8/29

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

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

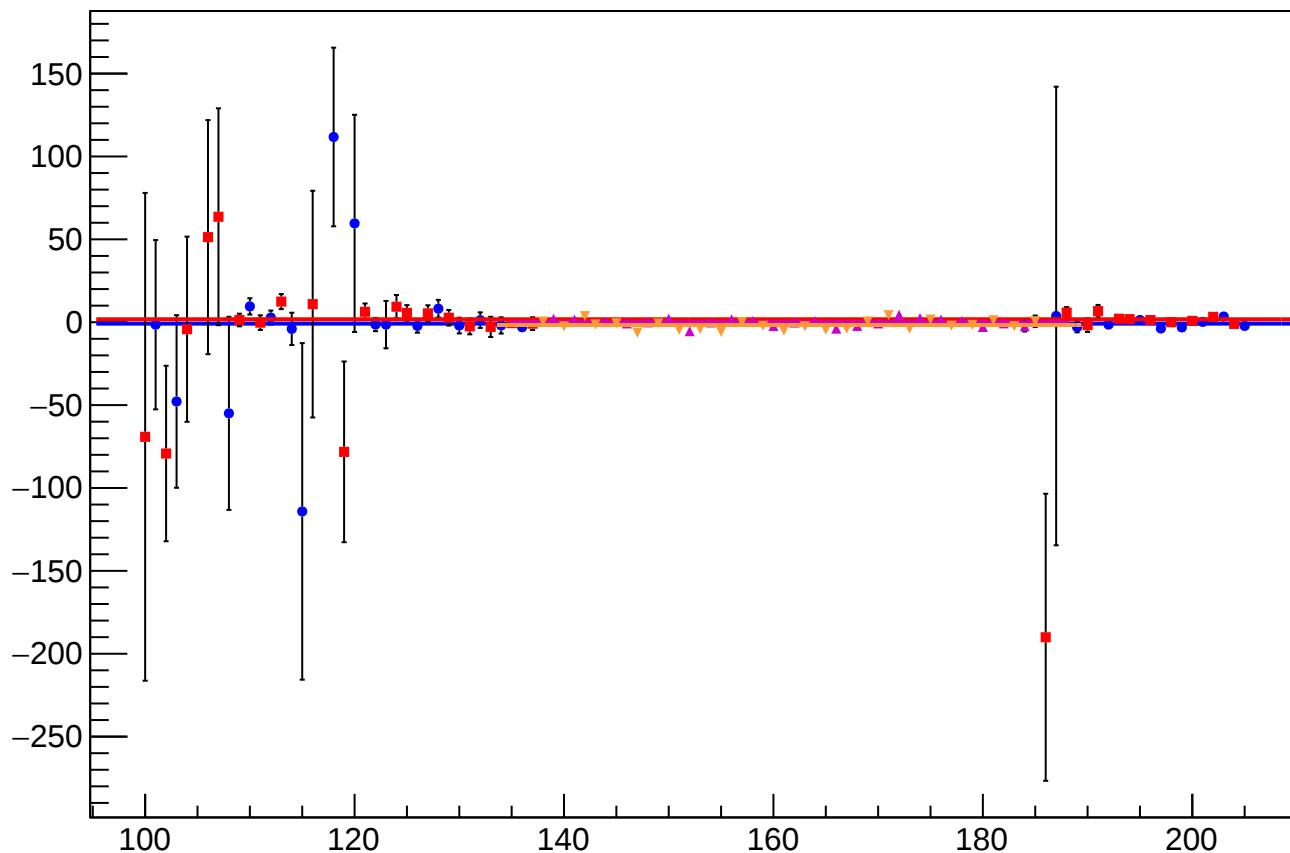
Right: 2071.678+/-0.326 χ^2/NDF : 12257717.0/55

In: 2520.670+/-0.360 χ^2/NDF :10959122.2/48

Out: 2637.437+/-0.364 χ^2/NDF :10629439.7/54

All: 2578.549+/-0.256 χ^2/NDF : 21640572.7/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.848 ± 0.683 χ^2/NDF : 25.9/25

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

Right Out: 1.785 ± 0.686 χ^2/NDF : 28.8/29

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

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

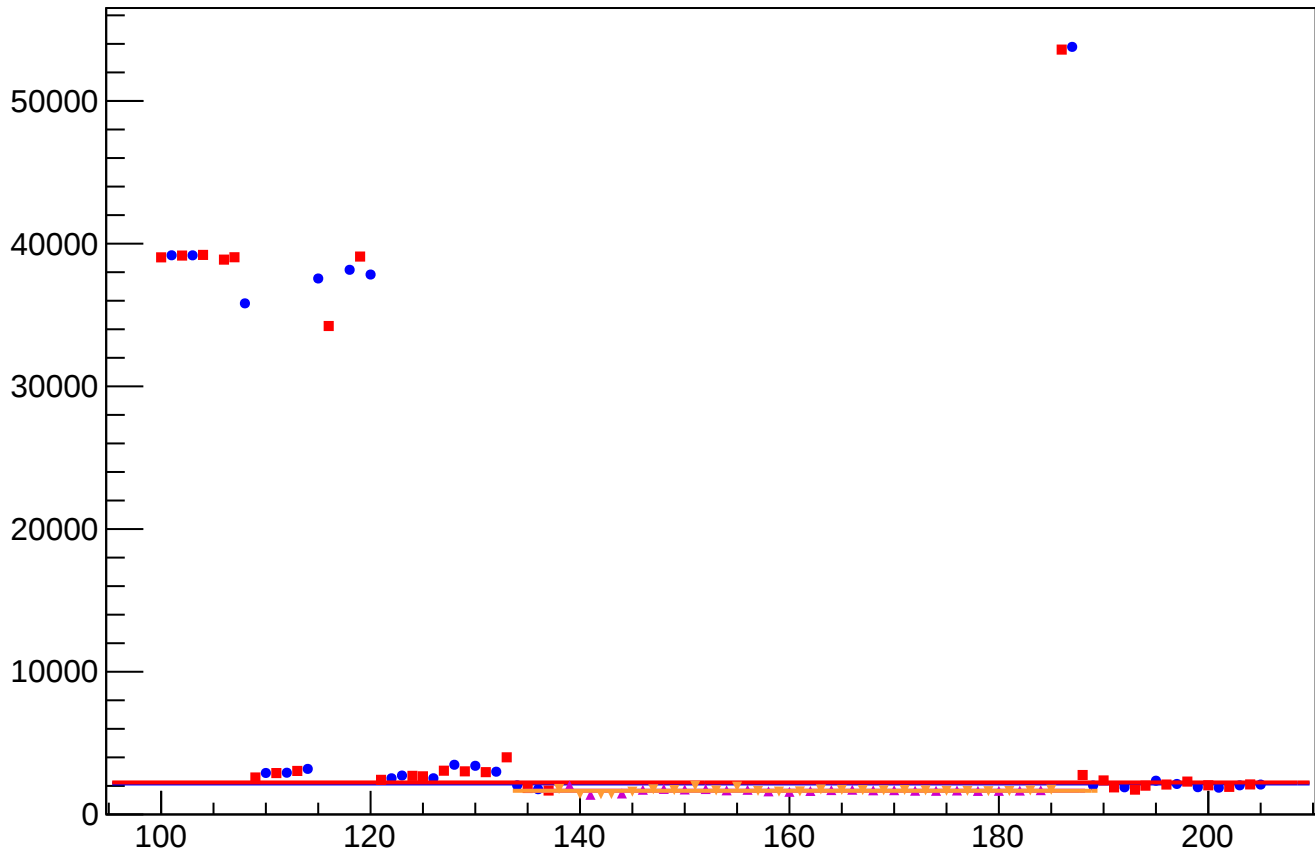
Right: 0.463 ± 0.484 χ^2/NDF : 62.1/55

In: -0.271 ± 0.346 χ^2/NDF : 55.1/48

Out: -0.834 ± 0.338 χ^2/NDF : 93.7/54

All: -0.559 ± 0.242 χ^2/NDF : 150.2/103

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2170.189+/-0.483 χ^2/NDF : 5439131.5/25

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

Right Out: 2243.163+/-0.485 χ^2/NDF : 6027479.2/29

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

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

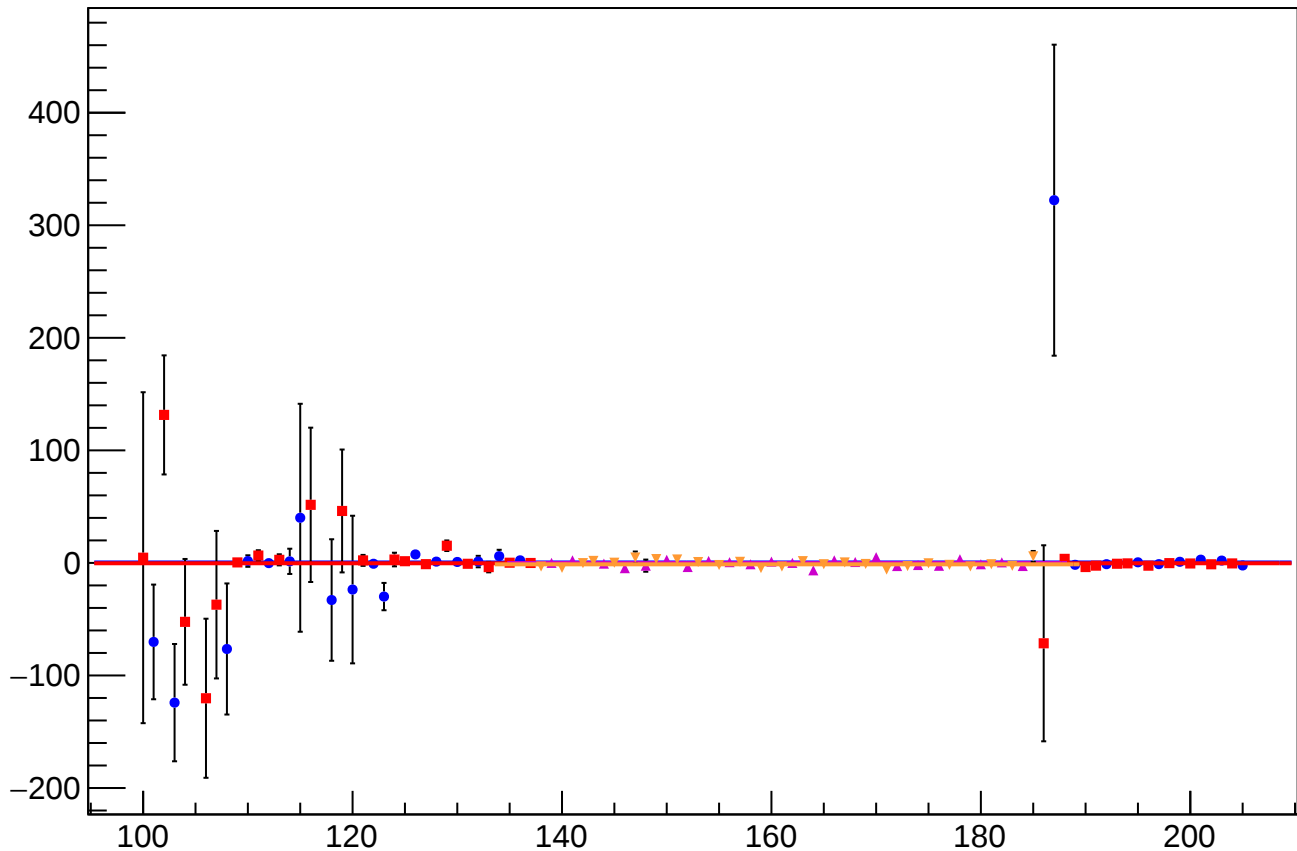
Right: 2206.534+/-0.342 χ^2/NDF : 11477977.9/55

In: 1793.465+/-0.245 χ^2/NDF : 6435879.3/48

Out: 1799.757+/-0.239 χ^2/NDF : 7354760.0/54

All: 1796.686+/-0.171 χ^2/NDF : 13790978.2/111

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.395 ± 0.540 χ^2/NDF : 36.5/25

Left Out: -1.251 ± 0.535 χ^2/NDF : 21.7/24

Right Out: -0.314 ± 0.550 χ^2/NDF : 33.0/29

Left In: -0.098 ± 0.541 χ^2/NDF : 19.3/22

Left: -0.681 ± 0.380 χ^2/NDF : 43.3/47

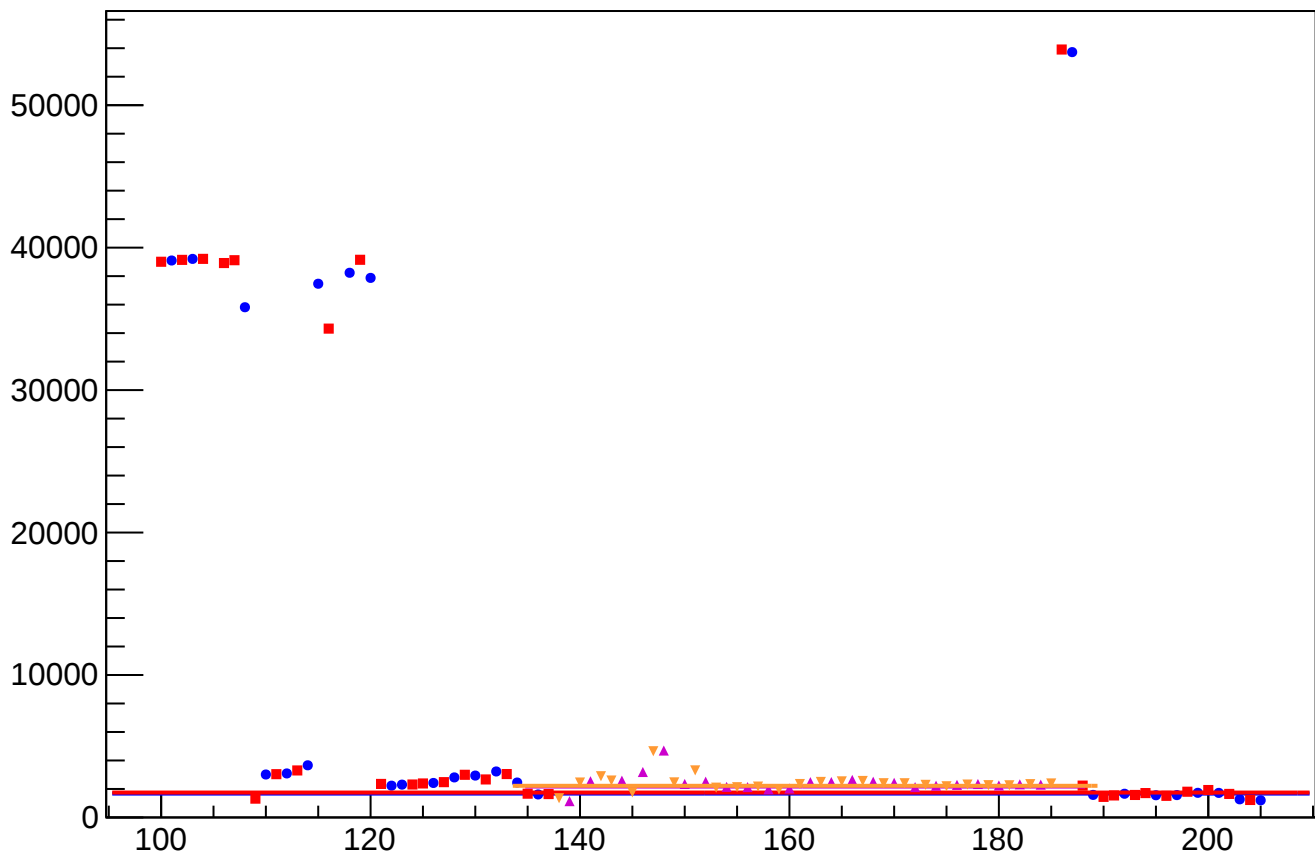
Right: 0.047 ± 0.385 χ^2/NDF : 70.3/55

In: 0.149 ± 0.382 χ^2/NDF : 56.2/48

Out: -0.795 ± 0.383 χ^2/NDF : 56.2/54

All: -0.321 ± 0.271 χ^2/NDF : 115.4/103

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1674.476+/-0.382 χ^2/NDF : 6387792.9/25

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

Right Out: 1748.691+/-0.389 χ^2/NDF : 6738788.5/29

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

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

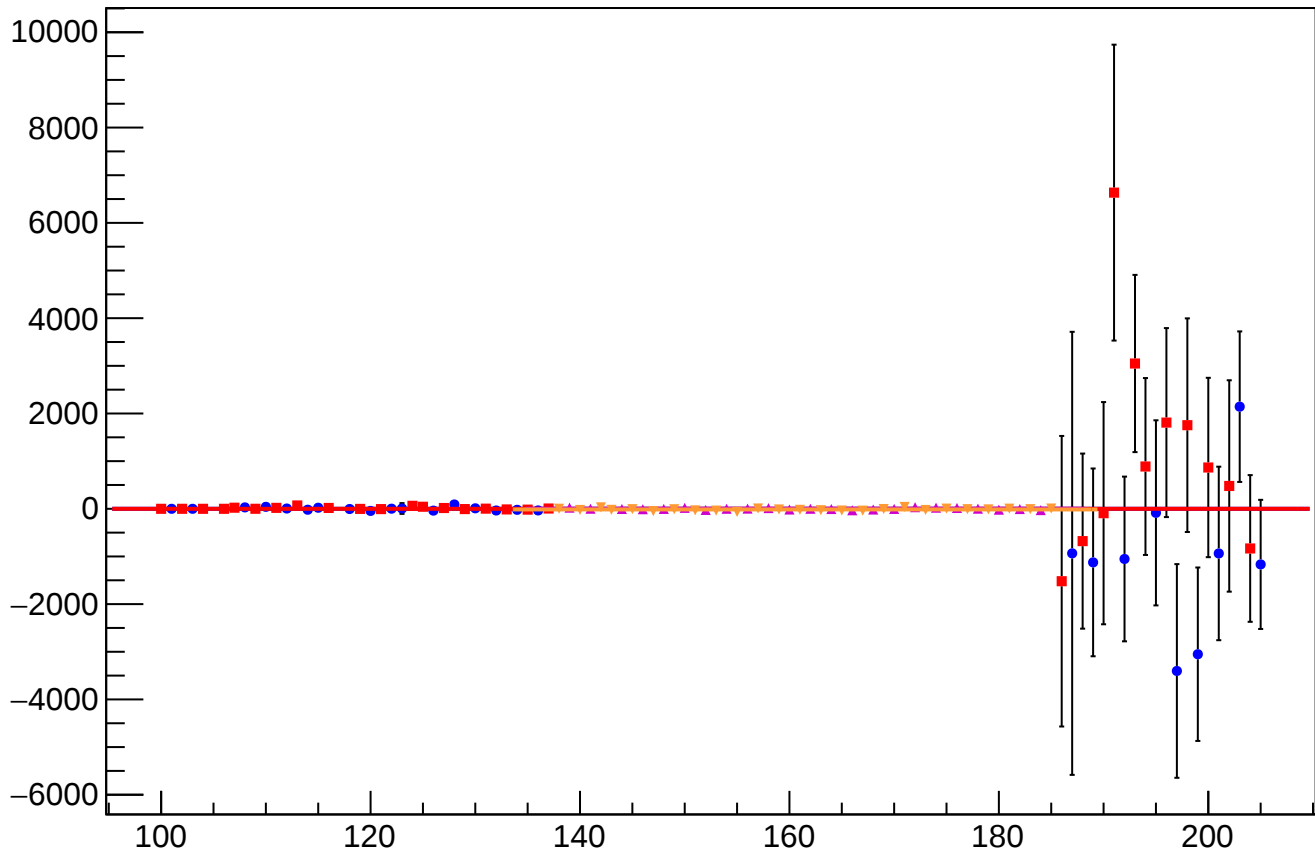
Right: 1710.889+/-0.272 χ^2/NDF : 13145140.1/55

In: 1921.243+/-0.270 χ^2/NDF : 9201470.0/48

Out: 1991.843+/-0.271 χ^2/NDF : 8922697.7/54

All: 1956.422+/-0.191 χ^2/NDF : 18158182.5/1

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 25.3/25$

Left Out: -13.484 ± 2.800 $\chi^2/\text{NDF}: 58.7/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 25.4/29$

Left In: 0.459 ± 2.917 $\chi^2/\text{NDF}: 29.0/22$

Left: -6.796 ± 2.020 $\chi^2/\text{NDF}: 99.5/47$

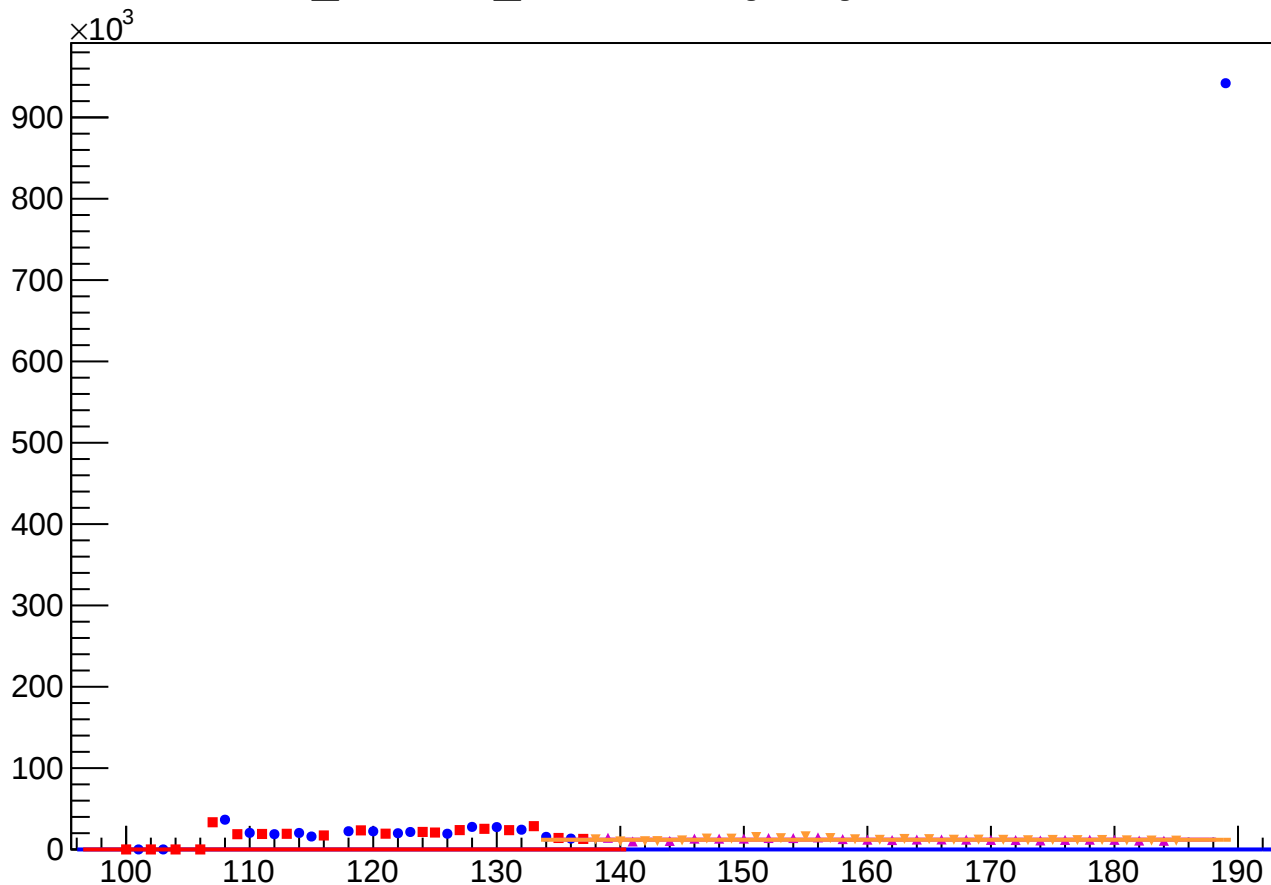
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 51.2/55$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 54.3/48$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 107.2/54$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 162.0/103$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 $\pm$ 0.012 χ^2 /NDF: 11125273.3/17

Left Out: 11910.325 $\pm$ 1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11063399.8/18

Left In: 12064.761 $\pm$ 2.062 χ^2 /NDF: 368452.5/22

Left: 11984.403 $\pm$ 1.428 χ^2 /NDF: 847874.4/47

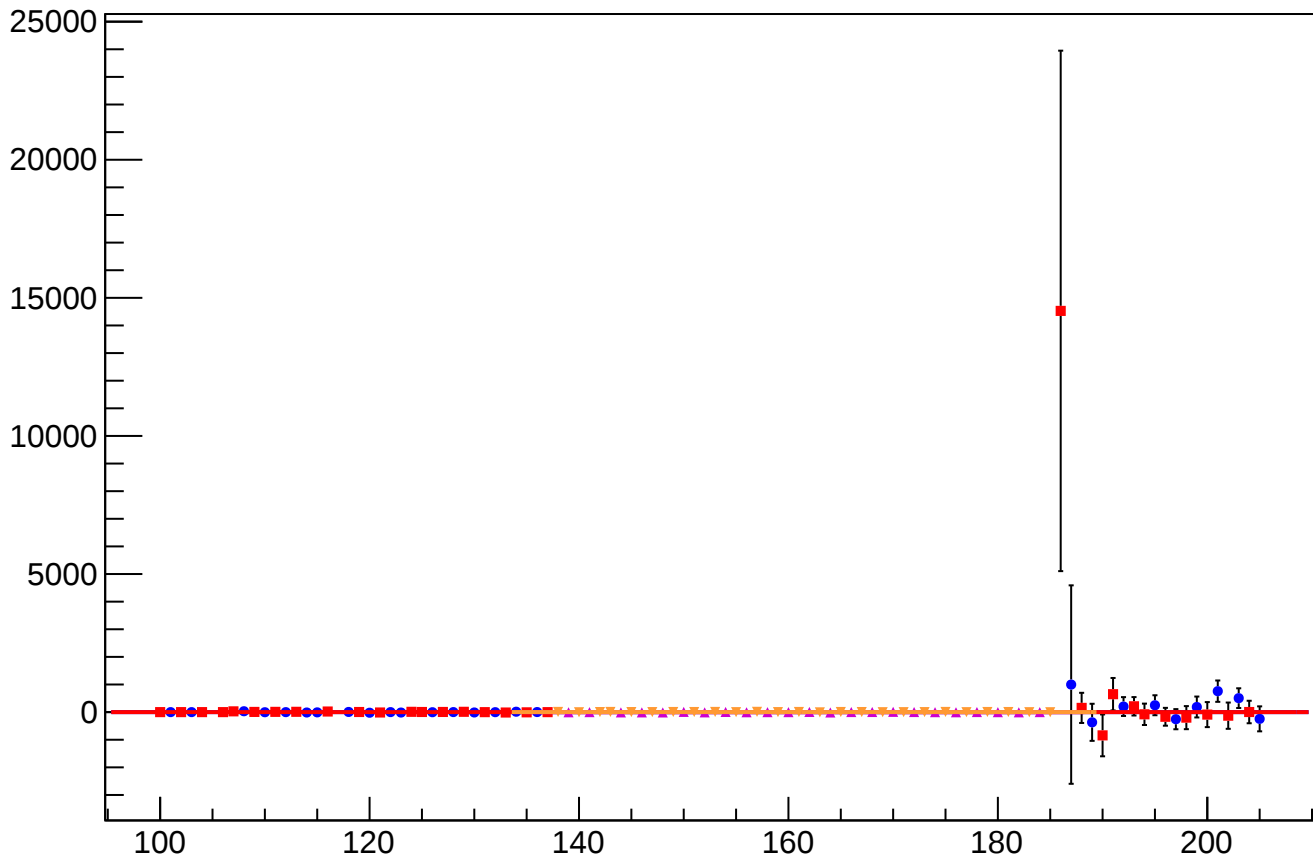
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

In: 19.067 $\pm$ 0.012 χ^2 /NDF: 45607591.7/40

Out: 18.703 $\pm$ 0.011 χ^2 /NDF: 47605245.6/43

All: 18.871 $\pm$ 0.008 χ^2 /NDF: 93213311.5/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 21.0/25

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.7/29

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

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

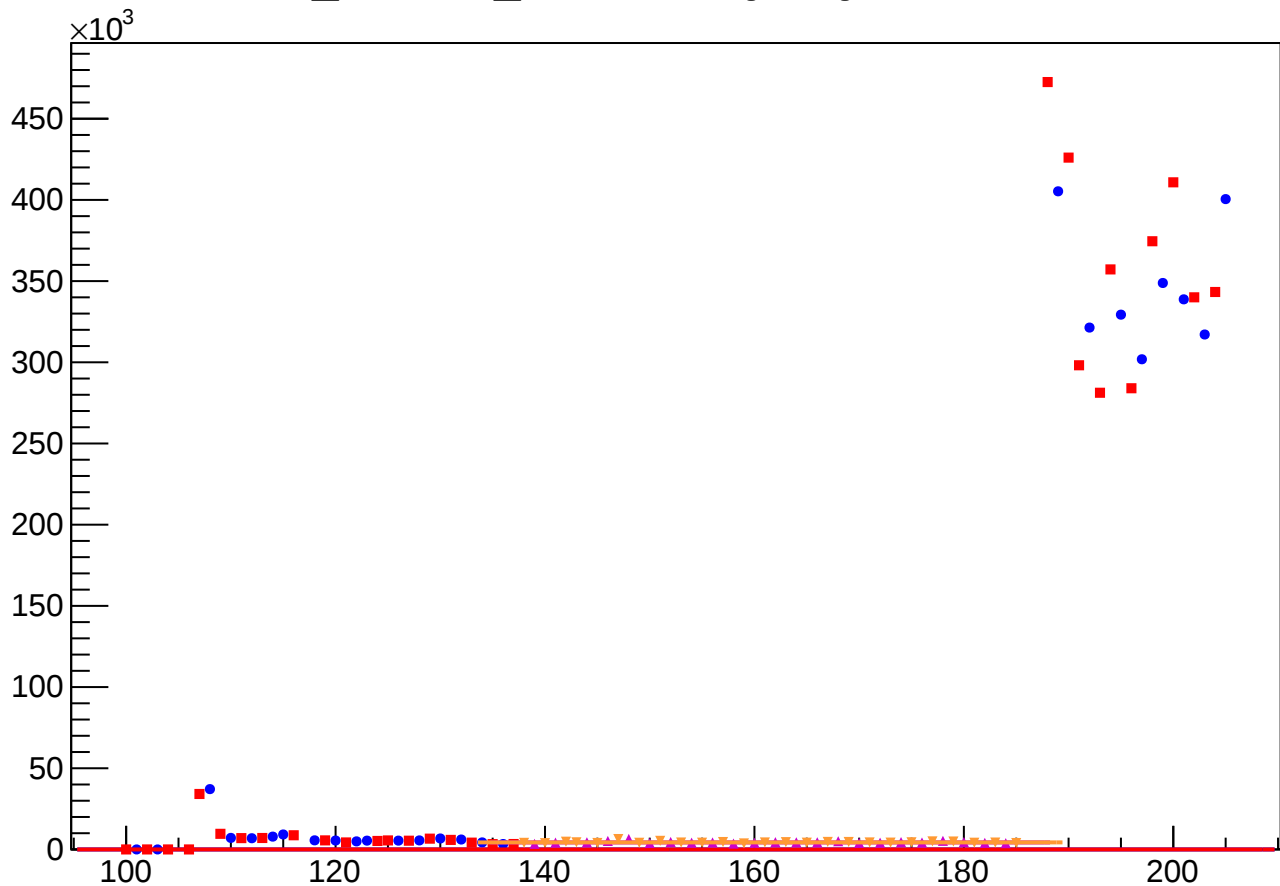
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 47.1/55

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 57.4/48

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 45.7/54

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 104.5/103

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.940 ± 0.007 χ^2/NDF : 22970854.5/24

Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24

Right Out: 9.855 ± 0.006 χ^2/NDF : 24102735.1/28

Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47

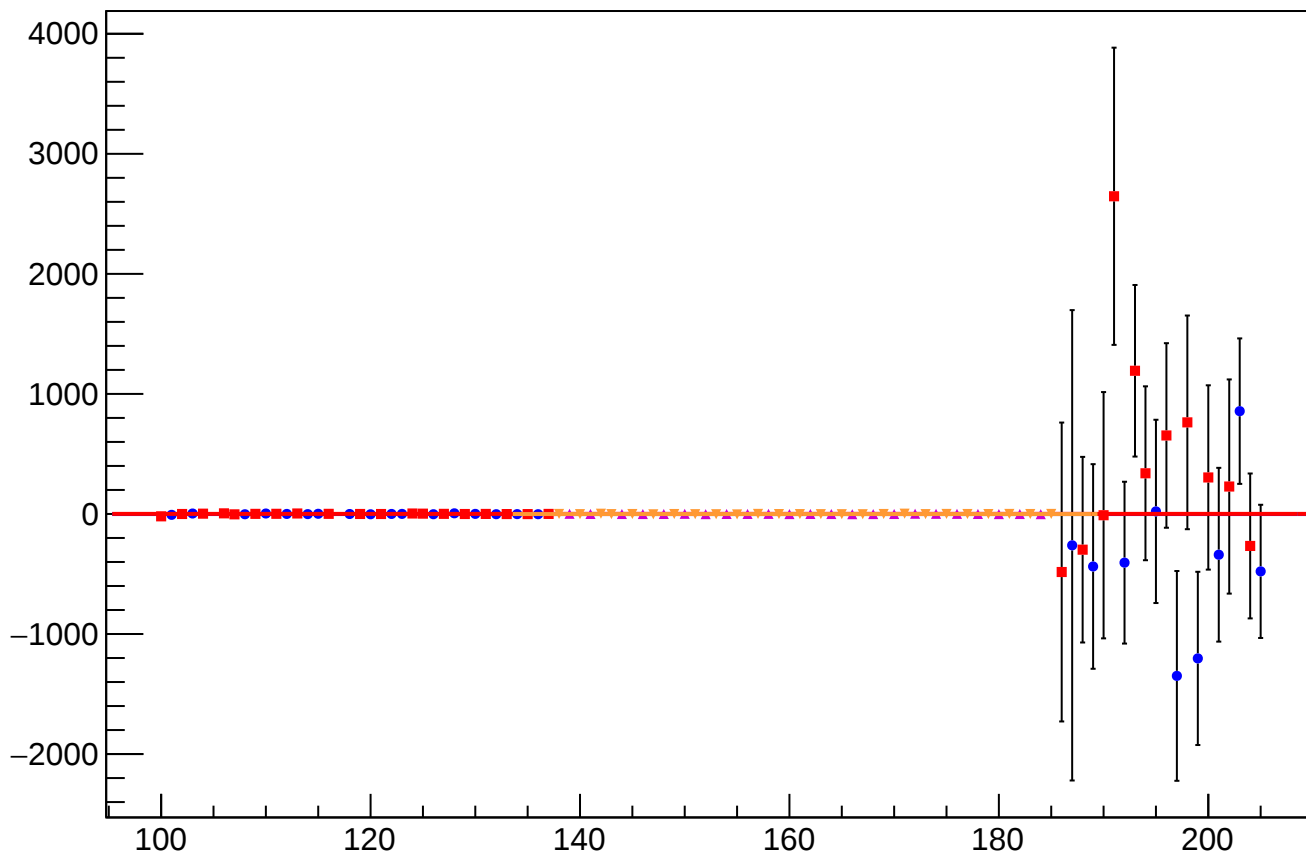
Right: 9.895 ± 0.004 χ^2/NDF : 47073679.7/53

In: 10.272 ± 0.007 χ^2/NDF : 57302580.2/47

Out: 10.166 ± 0.006 χ^2/NDF : 60531887.4/53

All: 10.216 ± 0.004 χ^2/NDF : 117834608.5/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.715 ± 0.483 χ^2/NDF : 31.5/25

Left Out: -0.775 ± 0.165 χ^2/NDF : 58.5/24

Right Out: 0.639 ± 0.501 χ^2/NDF : 22.8/29

Left In: 0.018 ± 0.171 χ^2/NDF : 29.4/22

Left: -0.393 ± 0.119 χ^2/NDF : 99.1/47

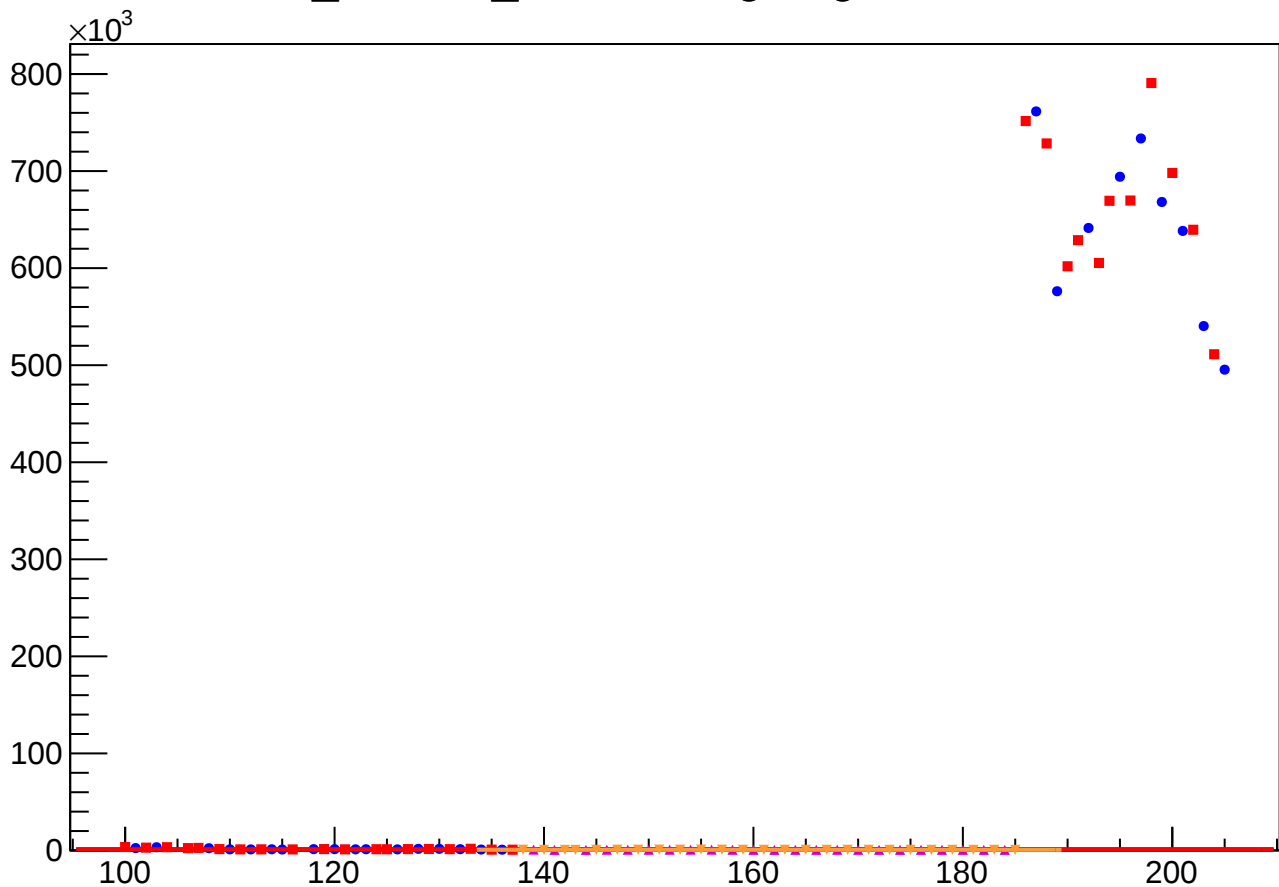
Right: -0.063 ± 0.348 χ^2/NDF : 58.1/55

In: -0.063 ± 0.161 χ^2/NDF : 63.0/48

Out: -0.637 ± 0.156 χ^2/NDF : 88.5/54

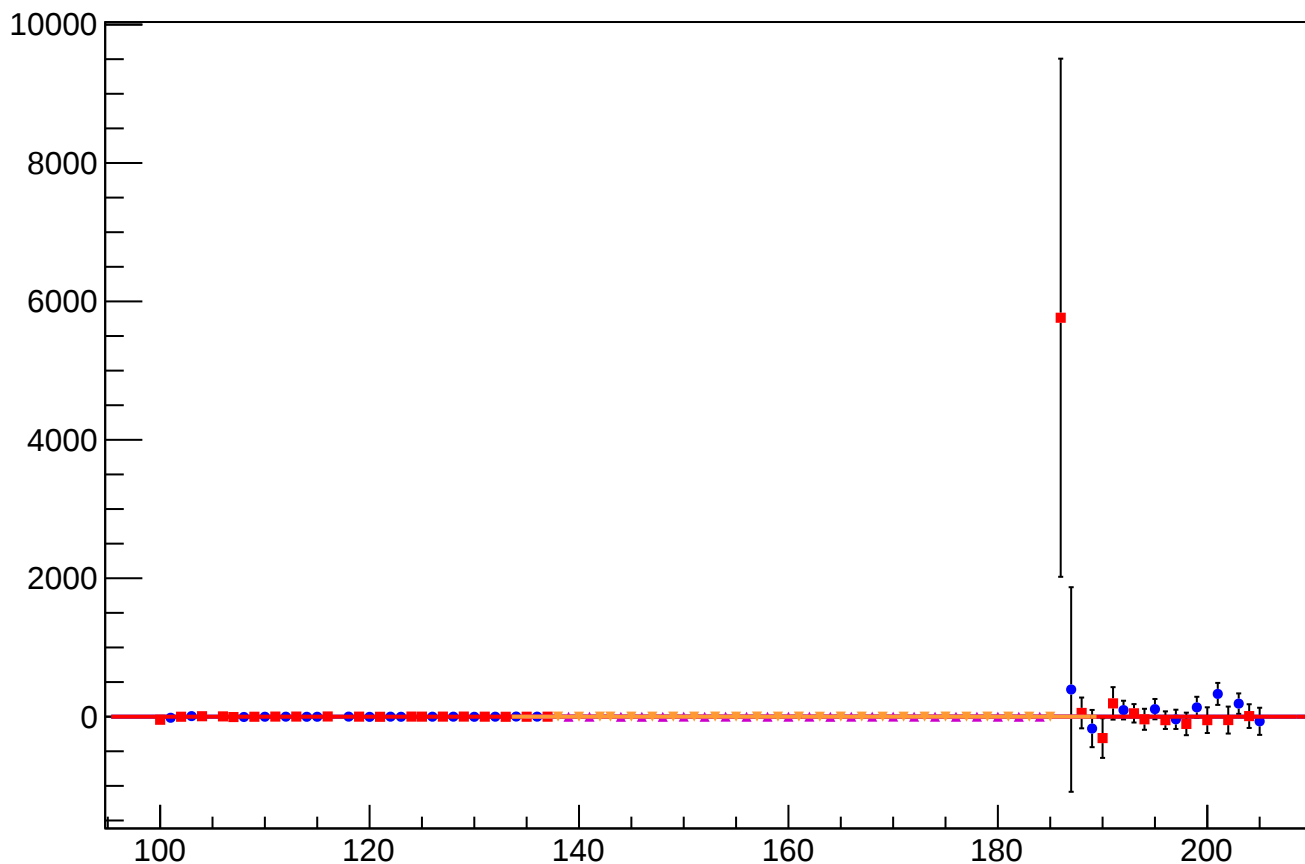
All: -0.359 ± 0.112 χ^2/NDF : 158.0/103

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.481 ± 0.342 $\chi^2/\text{NDF}: 14072321.1/25$ Left: 703.867 ± 0.084 $\chi^2/\text{NDF}: 726141.0/47$
 Left Out: 700.984 ± 0.116 $\chi^2/\text{NDF}: 392855.4/24$ Right: 1208.518 ± 0.246 $\chi^2/\text{NDF}: 29669358.1/55$
 Right Out: 1250.577 ± 0.355 $\chi^2/\text{NDF}: 15569911.1/29$ In: 758.345 ± 0.114 $\chi^2/\text{NDF}: 16033723.9/48$
 Left In: 706.971 ± 0.121 $\chi^2/\text{NDF}: 332011.4/22$ Out: 754.422 ± 0.111 $\chi^2/\text{NDF}: 18131398.4/54$
 All: 756.326 ± 0.079 $\chi^2/\text{NDF}: 34165733.3/10$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.269 χ^2/NDF : 27.5/25

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 25.7/29

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

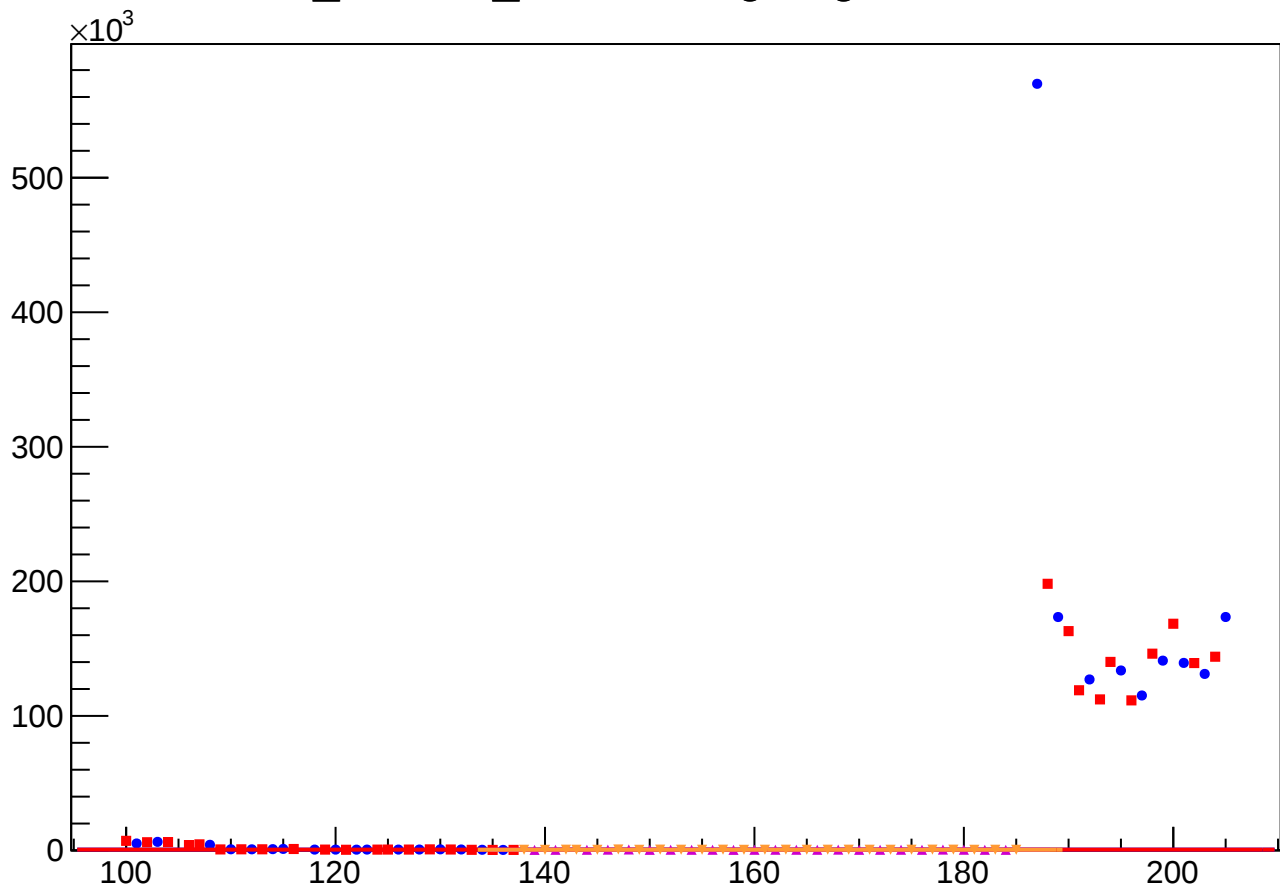
Right: -0.171 ± 0.189 χ^2/NDF : 53.6/55

In: -0.113 ± 0.114 χ^2/NDF : 62.5/48

Out: 0.142 ± 0.111 χ^2/NDF : 46.8/54

All: 0.018 ± 0.080 χ^2/NDF : 111.9/103

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 612.546+/-0.190 χ^2/NDF : 15349458.6/25

Left Out: 522.220+/-0.087 χ^2/NDF : 330405.3/24

Right Out: 602.055+/-0.187 χ^2/NDF : 16557762.5/28

Left In: 520.700+/-0.089 χ^2/NDF : 427720.5/22

Left: 521.481+/-0.062 χ^2/NDF : 758275.0/47

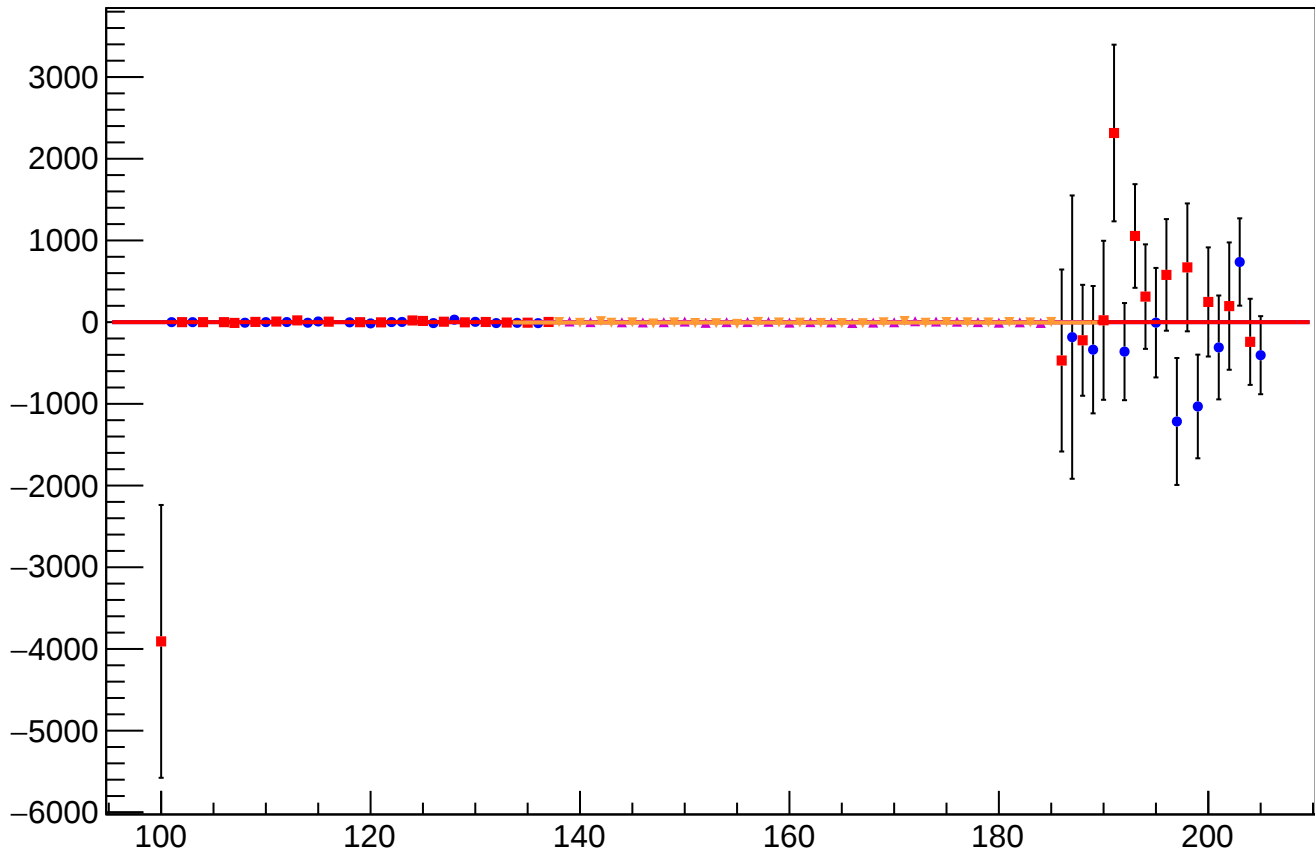
Right: 607.210+/-0.133 χ^2/NDF : 31908768.3/54

In: 537.257+/-0.081 χ^2/NDF : 15968311.0/48

Out: 536.347+/-0.079 χ^2/NDF : 17038228.3/53

All: 536.790+/-0.056 χ^2/NDF : 33006604.4/100

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 24.5/25

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 27.2/29

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

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

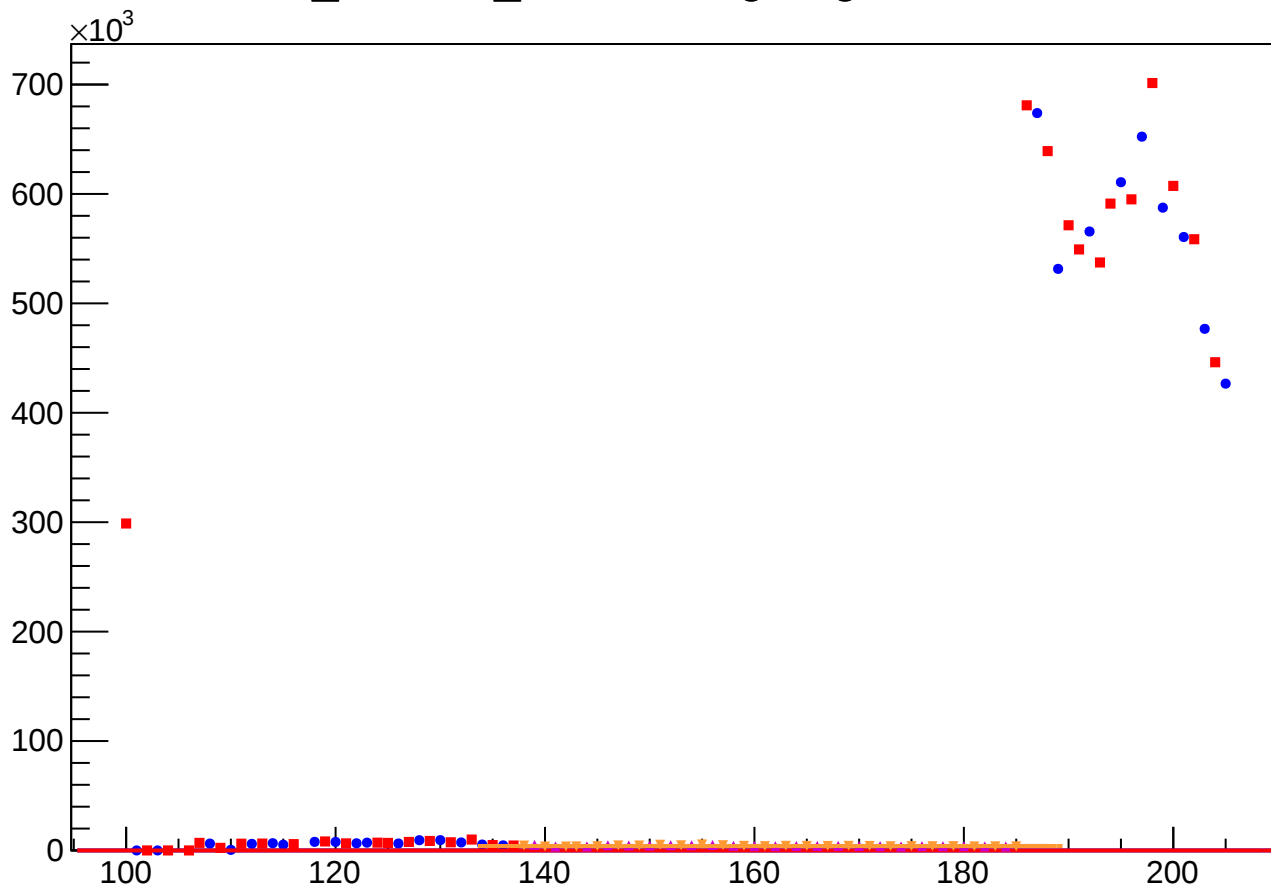
Right: 0.004 ± 0.014 χ^2/NDF : 54.5/55

In: -0.022 ± 0.021 χ^2/NDF : 54.0/48

Out: 0.025 ± 0.020 χ^2/NDF : 107.7/54

All: 0.003 ± 0.014 χ^2/NDF : 164.4/103

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.344+/-0.015 χ^2/NDF : 23027990.5/25

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

Right Out: 17.272+/-0.014 χ^2/NDF : 24852181.1/29

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

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

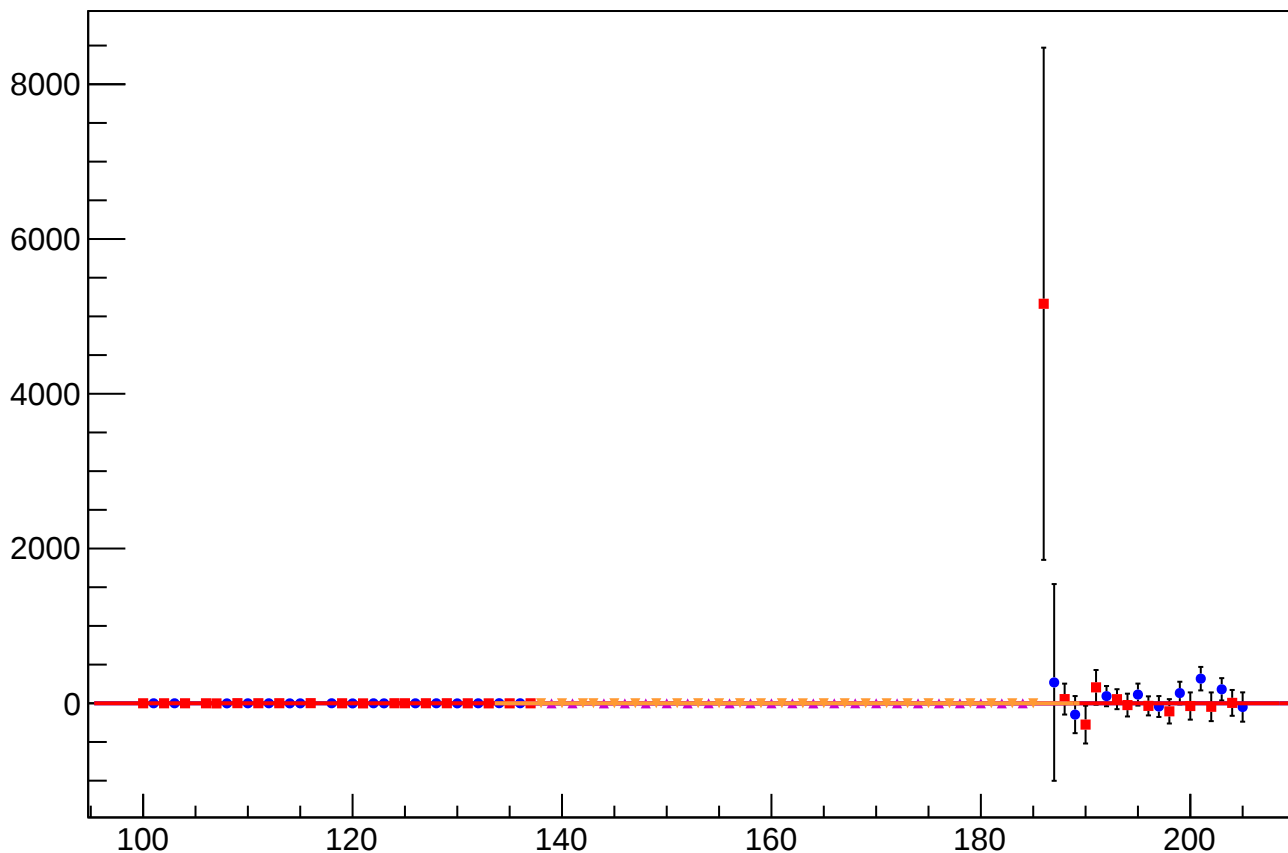
Right: 17.306+/-0.010 χ^2/NDF : 47880184.3/55

In: 19.136+/-0.015 χ^2/NDF : 57330444.7/48

Out: 19.004+/-0.014 χ^2/NDF : 61205155.8/54

All: 19.067+/-0.010 χ^2/NDF : 118535642.9/102

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 22.1/25

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.6/29

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

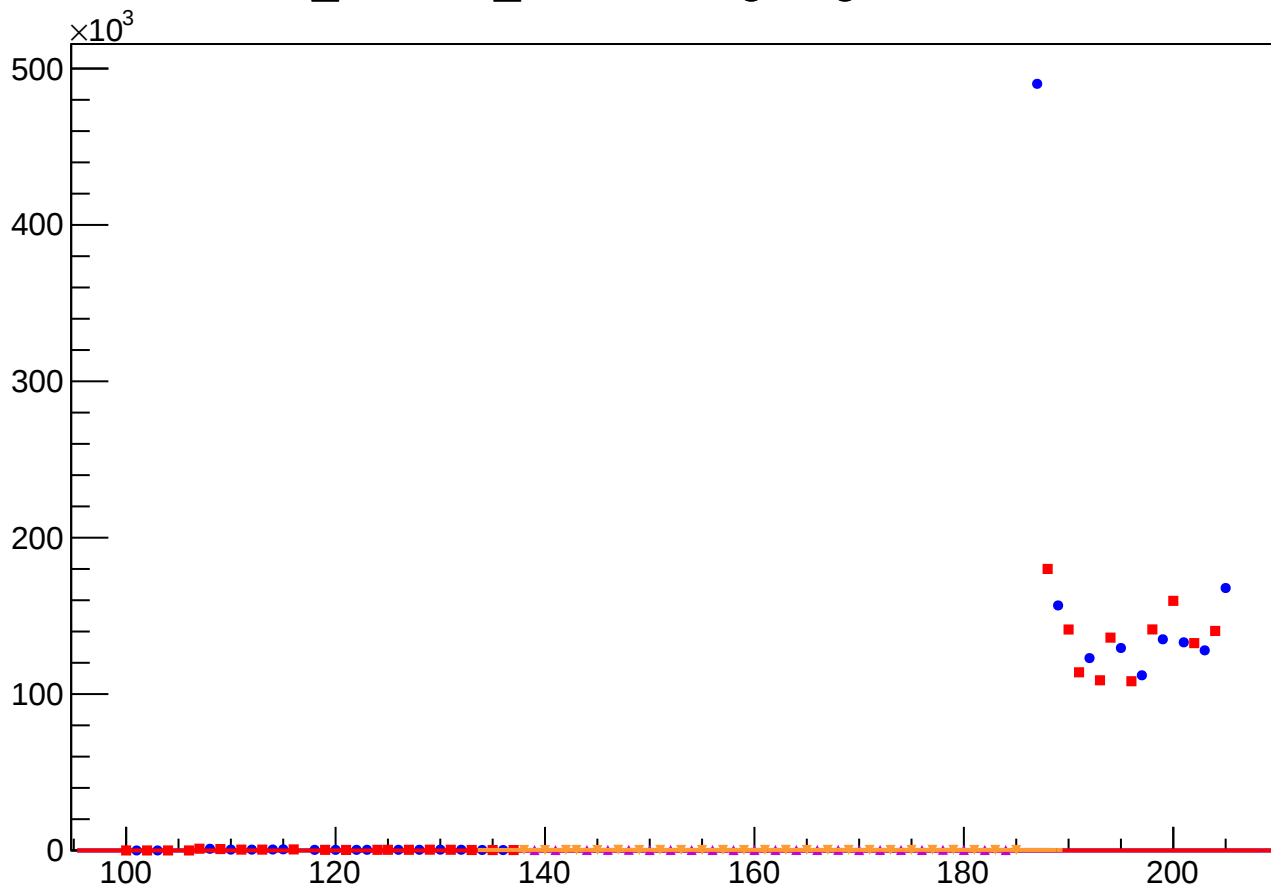
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 45.8/55

In: 0.000 $\pm$ 0.002 χ^2 /NDF:57.8/48

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.7/54

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 102.6/103

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 23353935.5/25

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

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 23871211.2/28

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

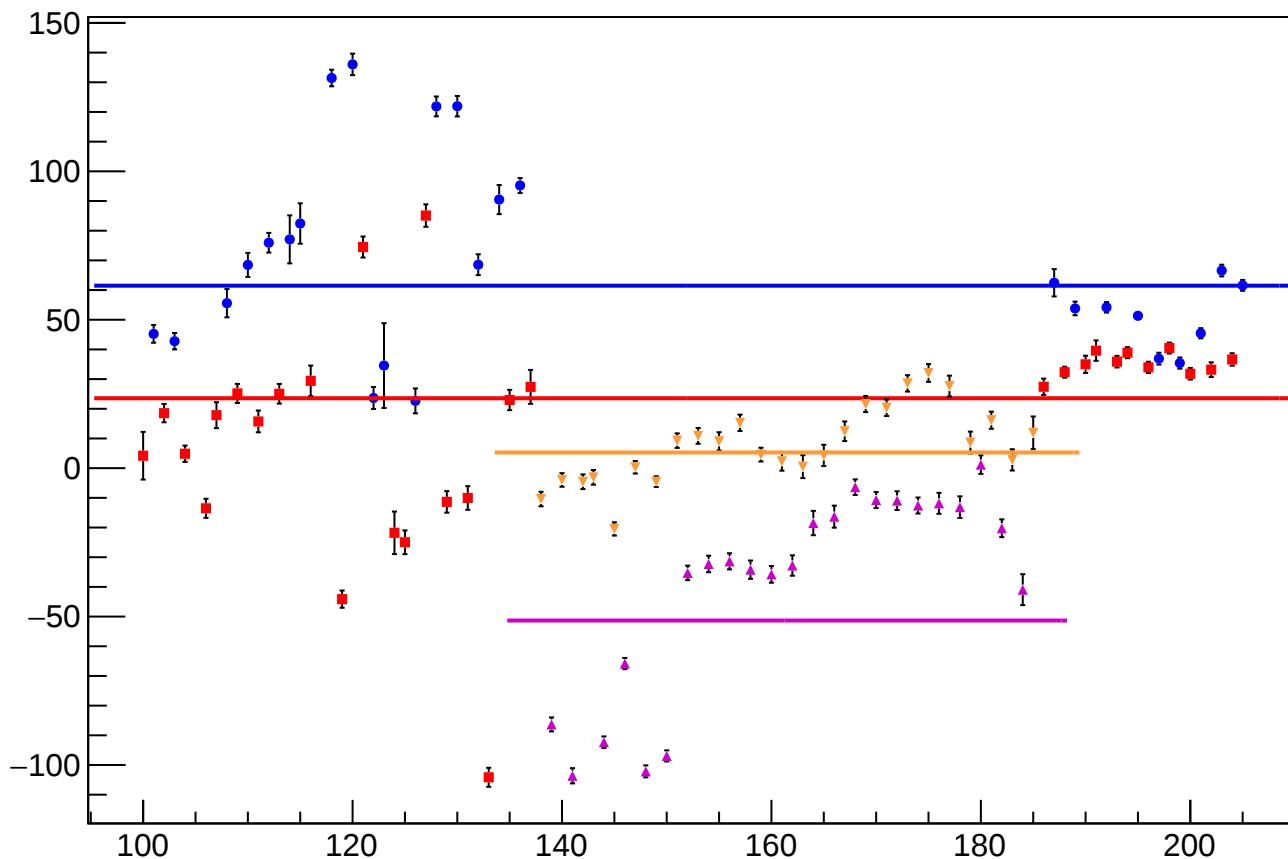
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 47225363.7/54

In: 1.913 $\pm$ 0.001 χ^2 /NDF:57496056.4/48

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:60078706.7/53

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 117574909.4/102

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.478 $\pm$ 0.526 χ^2/NDF : 2714.4/25

Left Out: 5.276 $\pm$ 0.544 χ^2/NDF : 556.2/24

Right Out: 23.561 $\pm$ 0.513 χ^2/NDF : 3505.7/29

Left In: -51.328 $\pm$ 0.558 χ^2/NDF : 4257.8/22

Left: -22.298 $\pm$ 0.390 χ^2/NDF : 10084.6/47

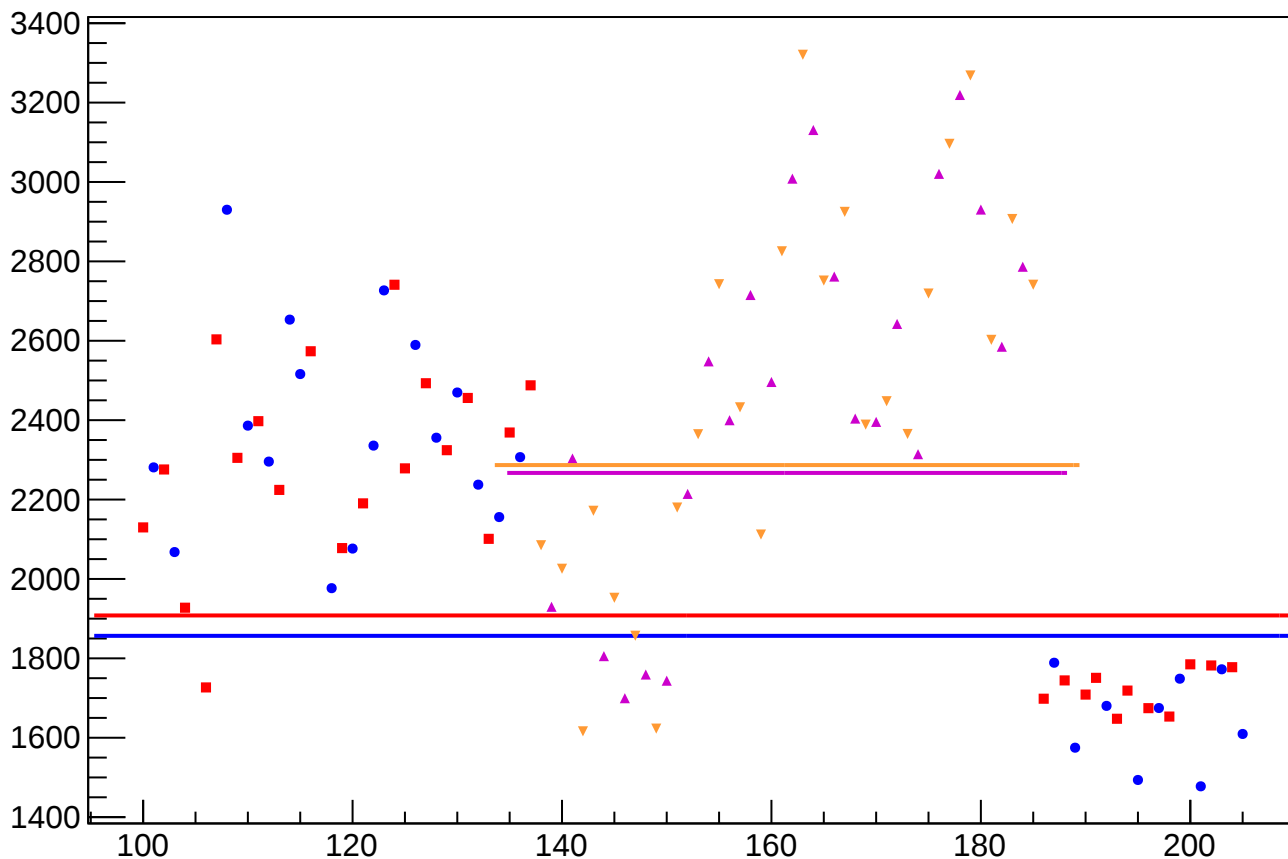
Right: 42.040 $\pm$ 0.367 χ^2/NDF : 8885.5/55

In: 8.454 $\pm$ 0.383 χ^2/NDF : 28603.4/48

Out: 14.963 $\pm$ 0.373 χ^2/NDF : 4660.0/54

All: 11.791 $\pm$ 0.267 χ^2/NDF : 33411.6/103

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1856.702 ± 0.372 $\chi^2/\text{NDF}: 884087.5/25$

Left Out: 2286.871 ± 0.385 $\chi^2/\text{NDF}: 1360490.8/24$

Right Out: 1908.056 ± 0.363 $\chi^2/\text{NDF}: 630792.7/29$

Left In: 2267.097 ± 0.395 $\chi^2/\text{NDF}: 1313364.4/22$

Left: 2277.239 ± 0.276 $\chi^2/\text{NDF}: 2675141.7/47$

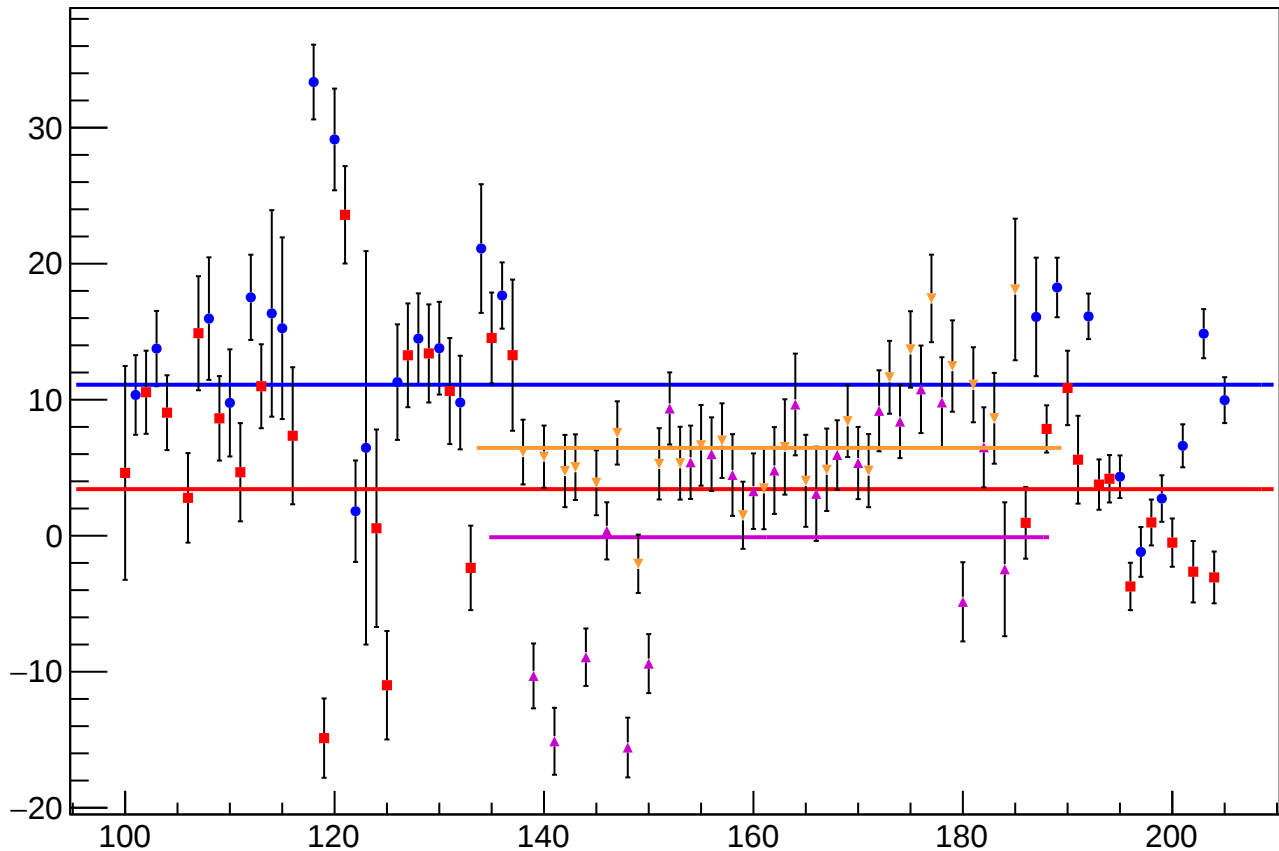
Right: 1883.030 ± 0.260 $\chi^2/\text{NDF}: 1524658.9/55$

In: 2049.609 ± 0.271 $\chi^2/\text{NDF}: 2770049.4/48$

Out: 2086.193 ± 0.264 $\chi^2/\text{NDF}: 2504712.2/54$

All: 2068.367 ± 0.189 $\chi^2/\text{NDF}: 5284127.4/100$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.101 ± 0.498 $\chi^2/\text{NDF}: 237.7/25$

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

Right Out: 3.425 ± 0.485 $\chi^2/\text{NDF}: 204.7/29$

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

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

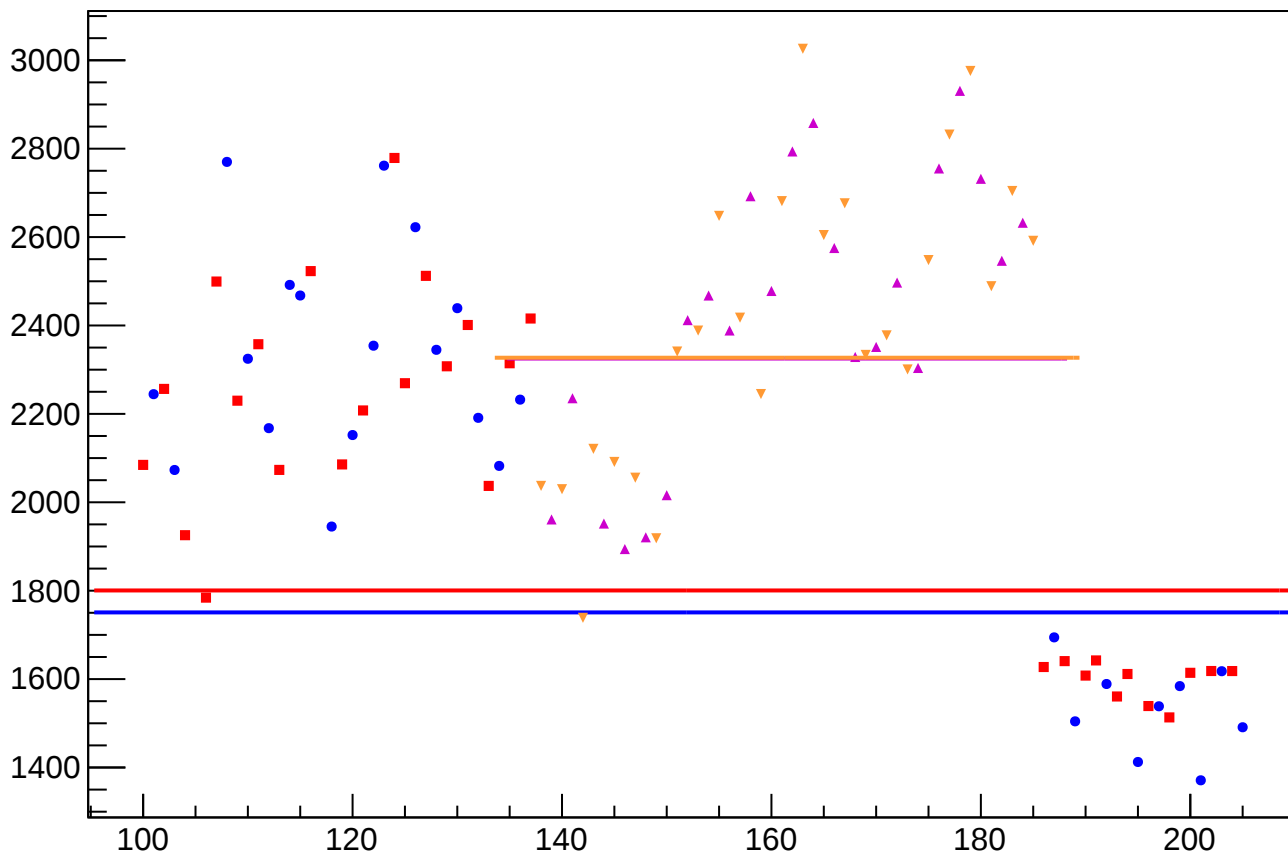
Right: 7.168 ± 0.348 $\chi^2/\text{NDF}: 564.3/55$

In: 6.205 ± 0.373 $\chi^2/\text{NDF}: 693.9/48$

Out: 4.760 ± 0.363 $\chi^2/\text{NDF}: 280.6/54$

All: 5.462 ± 0.260 $\chi^2/\text{NDF}: 982.2/103$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1750.859 ± 0.352 $\chi^2/\text{NDF}: 1108999.8/25$

Left Out: 2327.044 ± 0.387 $\chi^2/\text{NDF}: 646706.7/24$

Right Out: 1800.531 ± 0.343 $\chi^2/\text{NDF}: 852670.7/29$

Left In: 2325.175 ± 0.400 $\chi^2/\text{NDF}: 610729.2/22$

Left: 2326.139 ± 0.278 $\chi^2/\text{NDF}: 1257447.2/47$

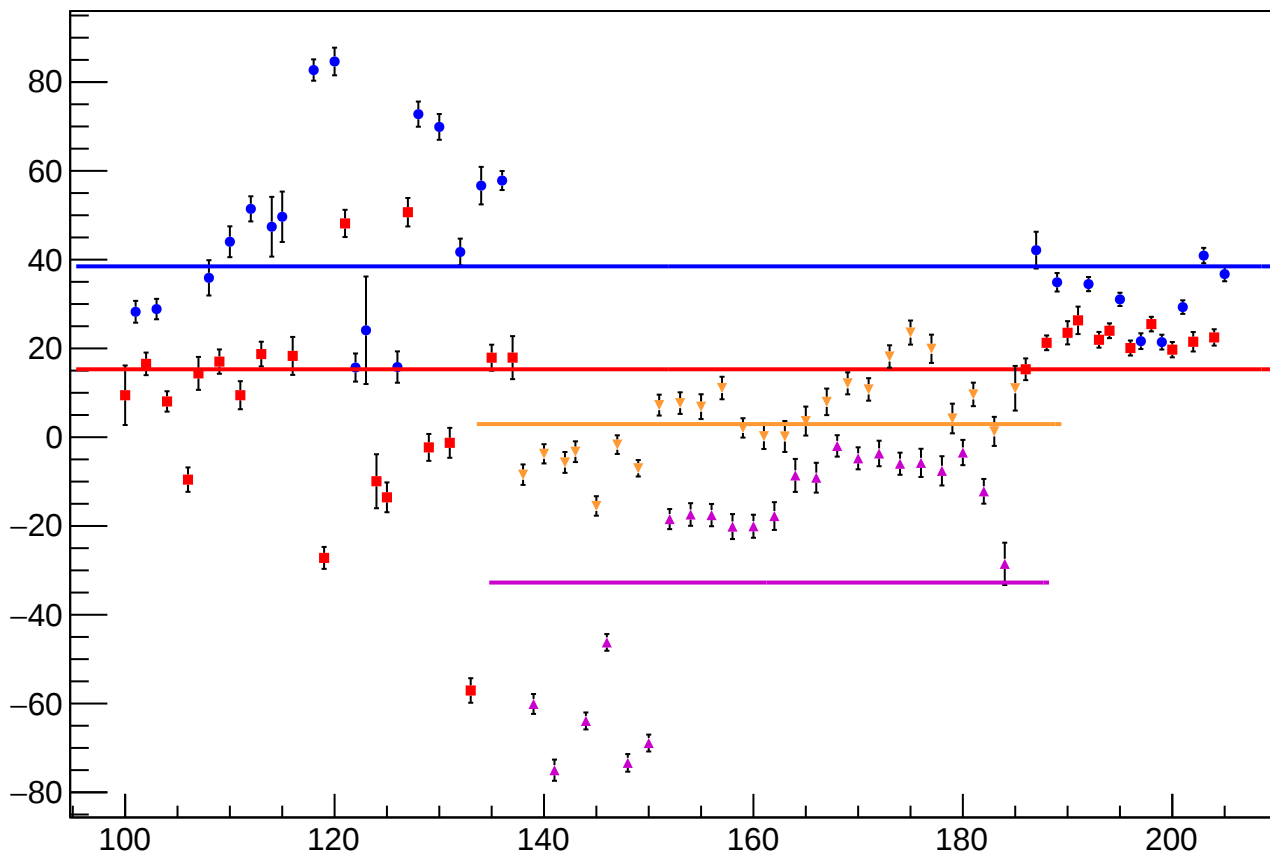
Right: 1776.307 ± 0.246 $\chi^2/\text{NDF}: 1971880.1/55$

In: 2001.667 ± 0.264 $\chi^2/\text{NDF}: 2883130.3/48$

Out: 2032.267 ± 0.257 $\chi^2/\text{NDF}: 2534685.7/54$

All: 2017.391 ± 0.184 $\chi^2/\text{NDF}: 5424715.1/10$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.485 $\pm$ 0.461 χ^2/NDF : 1349.9/25

Left Out: 2.952 $\pm$ 0.512 χ^2/NDF : 337.8/24

Right Out: 15.298 $\pm$ 0.448 χ^2/NDF : 1618.5/29

Left In: -32.745 $\pm$ 0.526 χ^2/NDF : 2632.5/22

Left: -14.409 $\pm$ 0.367 χ^2/NDF : 5335.1/47

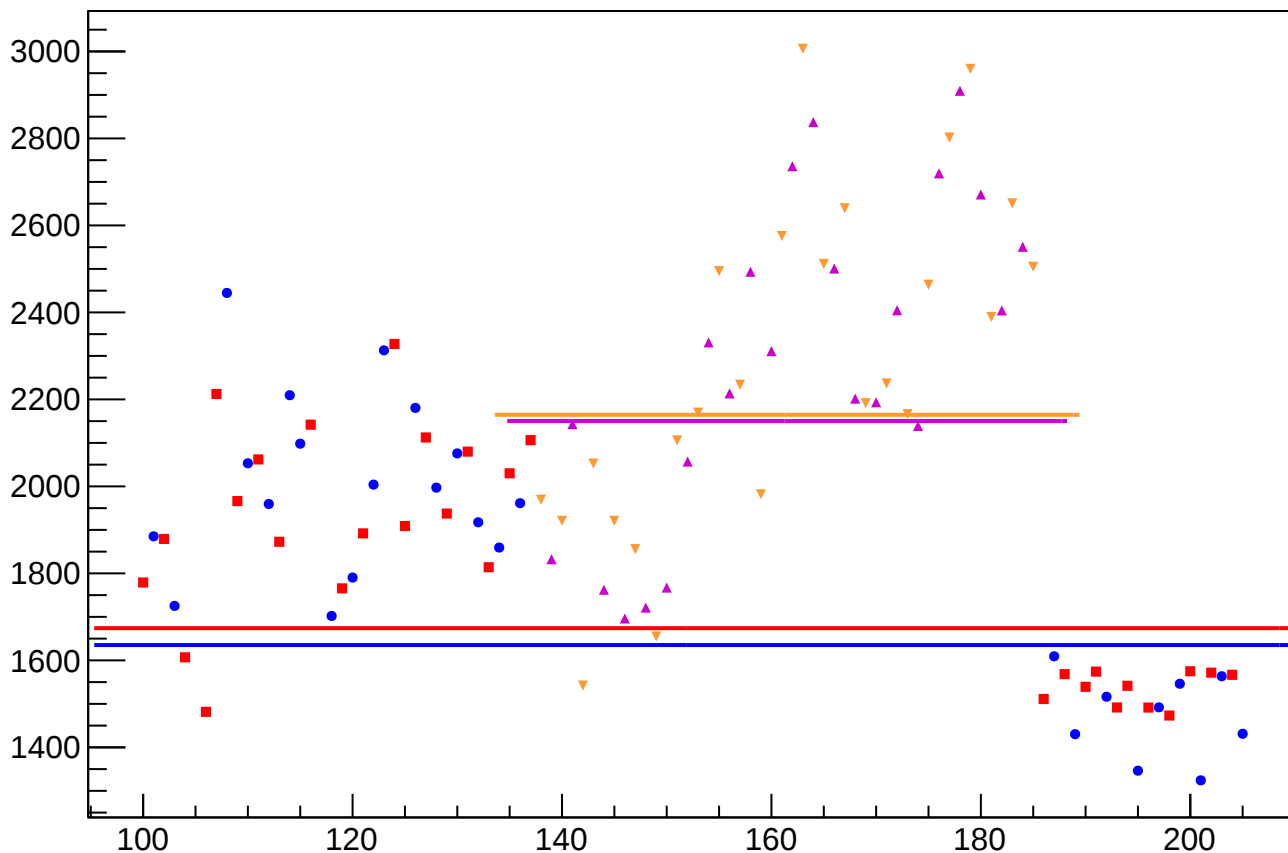
Right: 26.573 $\pm$ 0.321 χ^2/NDF : 4269.1/55

In: 7.564 $\pm$ 0.347 χ^2/NDF : 14355.2/48

Out: 9.939 $\pm$ 0.337 χ^2/NDF : 2285.5/54

All: 8.784 $\pm$ 0.242 χ^2/NDF : 16664.8/103

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1635.262 ± 0.326 $\chi^2/\text{NDF}: 667194.7/25$

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

Right Out: 1674.001 ± 0.317 $\chi^2/\text{NDF}: 461047.2/29$

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

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

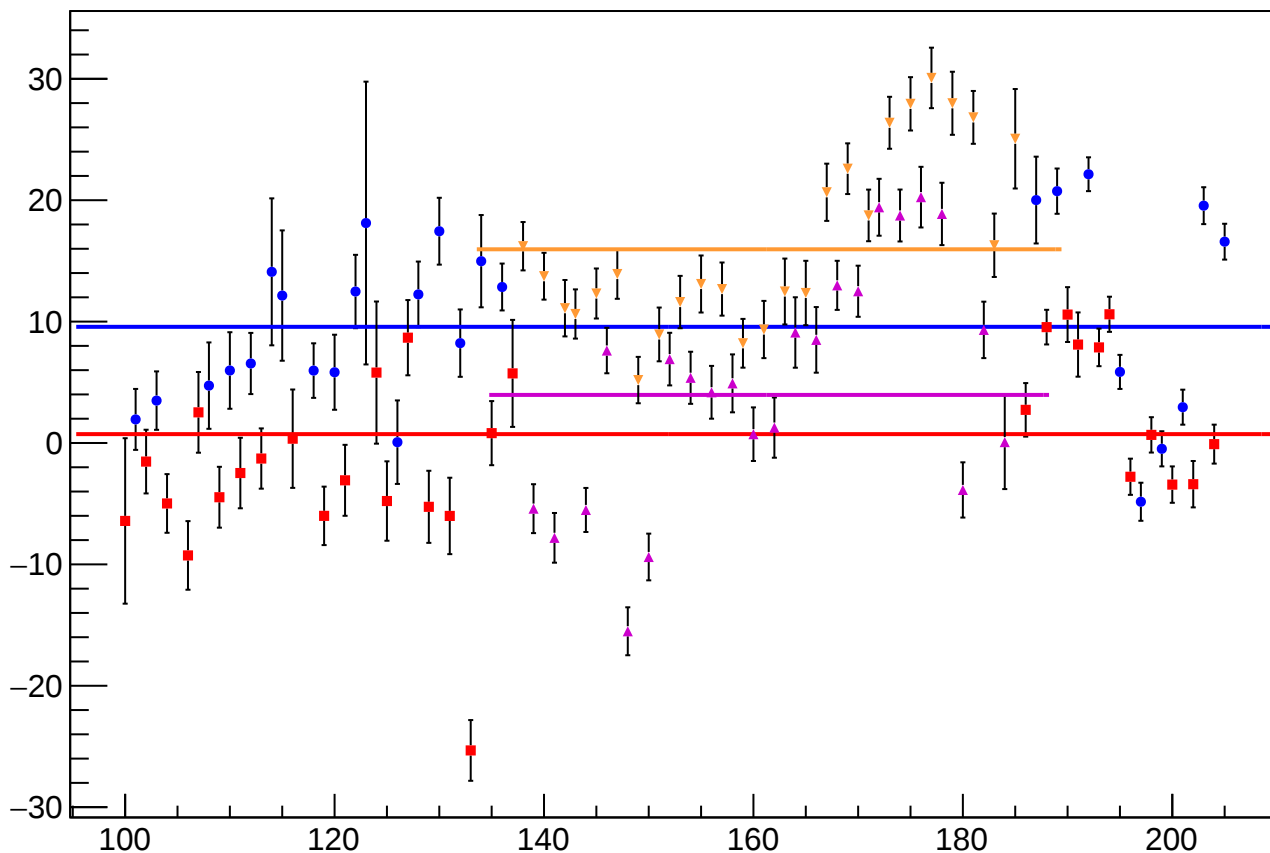
Right: 1655.163 ± 0.227 $\chi^2/\text{NDF}: 1135503.4/55$

In: 1858.793 ± 0.245 $\chi^2/\text{NDF}: 2663193.0/48$

Out: 1886.937 ± 0.238 $\chi^2/\text{NDF}: 2466080.5/54$

All: 1873.251 ± 0.171 $\chi^2/\text{NDF}: 5136046.0/100$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 9.570 $\pm$ 0.422 χ^2/NDF : 400.7/25

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

Right Out: 0.730 $\pm$ 0.405 χ^2/NDF : 316.3/29

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

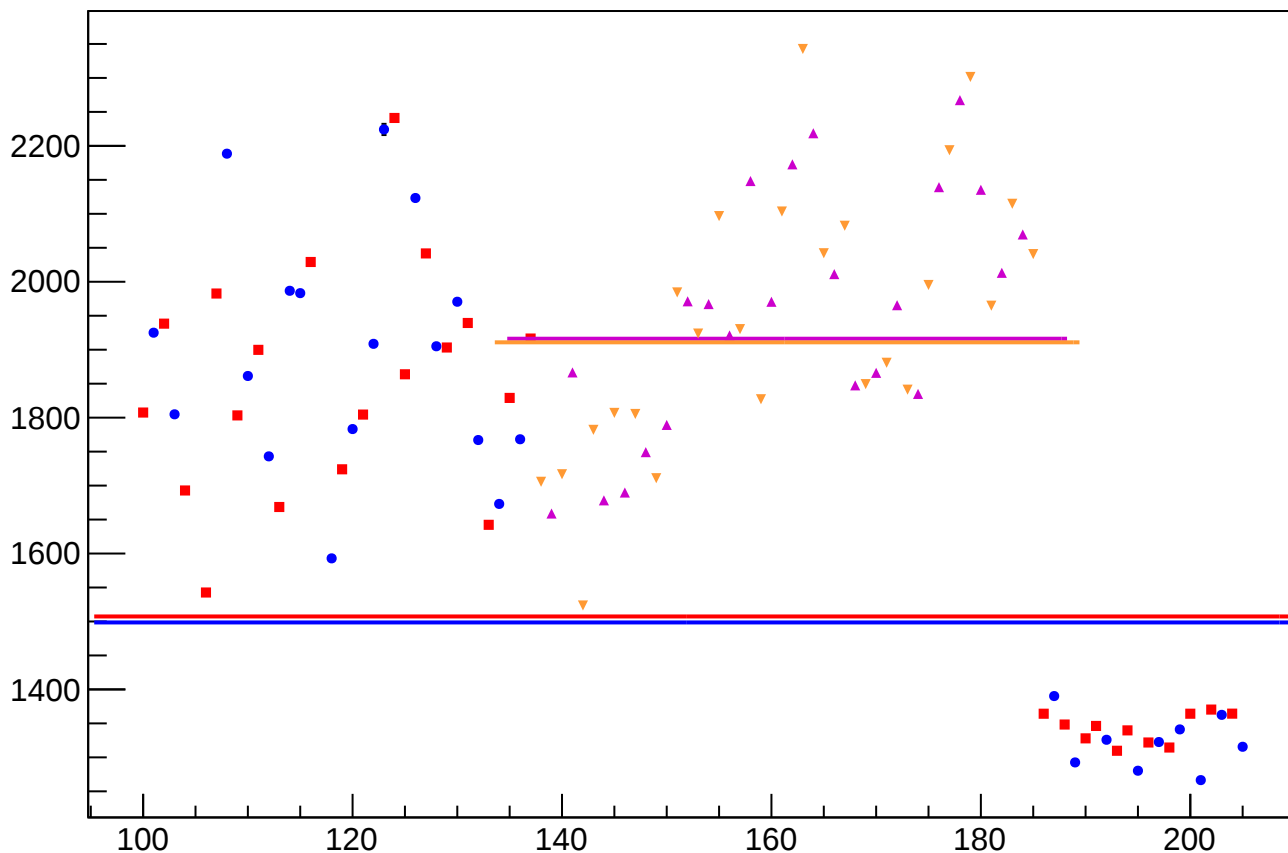
Right: 4.968 $\pm$ 0.292 χ^2/NDF : 945.4/55

In: 7.023 $\pm$ 0.312 χ^2/NDF :945.9/48

Out: 7.586 $\pm$ 0.300 χ^2/NDF :1198.1/54

All: 7.315 $\pm$ 0.216 χ^2/NDF : 2145.6/103

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1498.576 $\pm$ 0.298 χ^2 /NDF: 789623.3/25

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

Right Out: 1507.383 $\pm$ 0.286 χ^2 /NDF: 717375.4/29

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

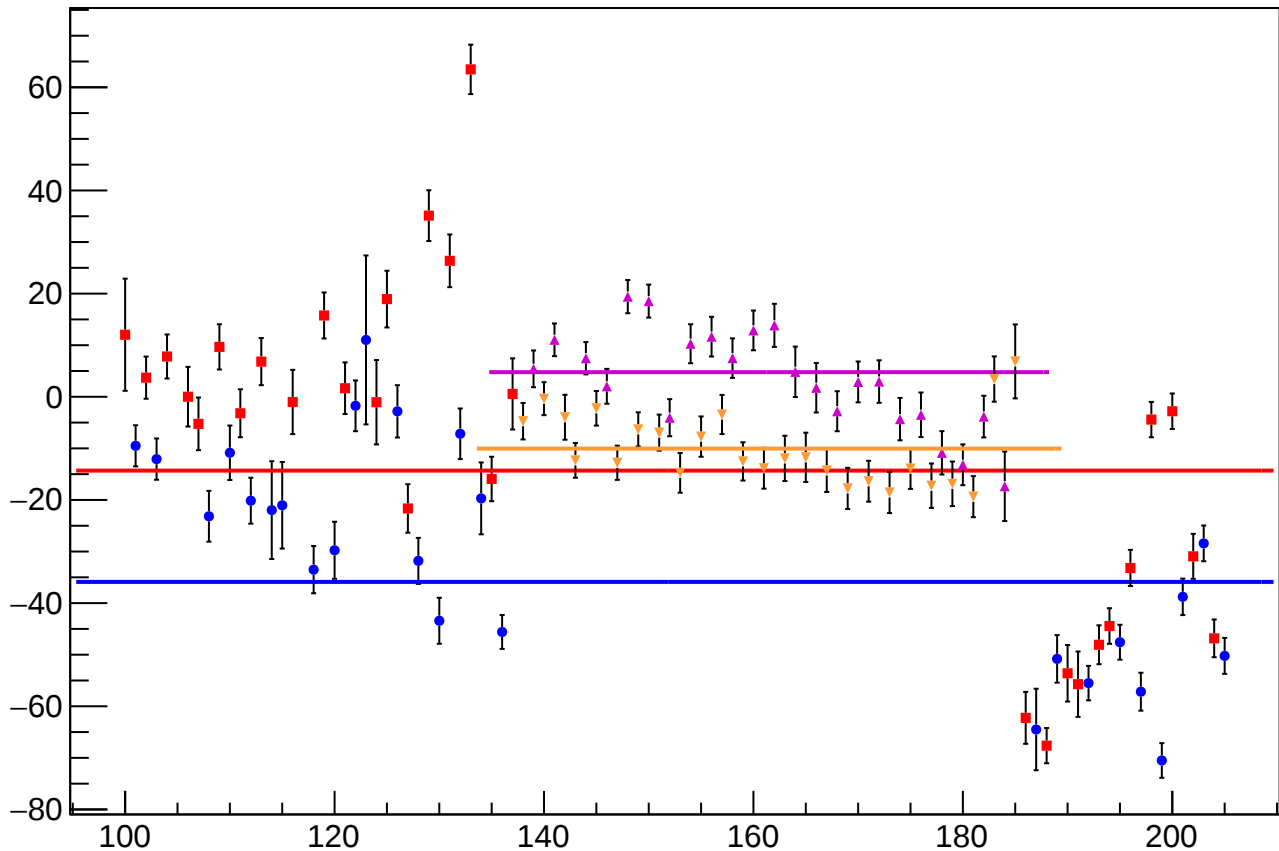
Right: 1503.161 $\pm$ 0.207 χ^2 /NDF: 1507452.2/55

In: 1688.121 $\pm$ 0.220 χ^2 /NDF:1952989.2/48

Out: 1689.060 $\pm$ 0.212 χ^2 /NDF:1940479.9/54

All: 1688.609 $\pm$ 0.153 χ^2 /NDF: 3893478.4/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.886 ± 0.862 χ^2/NDF : 510.7/25

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

Right Out: -14.307 ± 0.827 χ^2/NDF : 1380.1/29

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

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

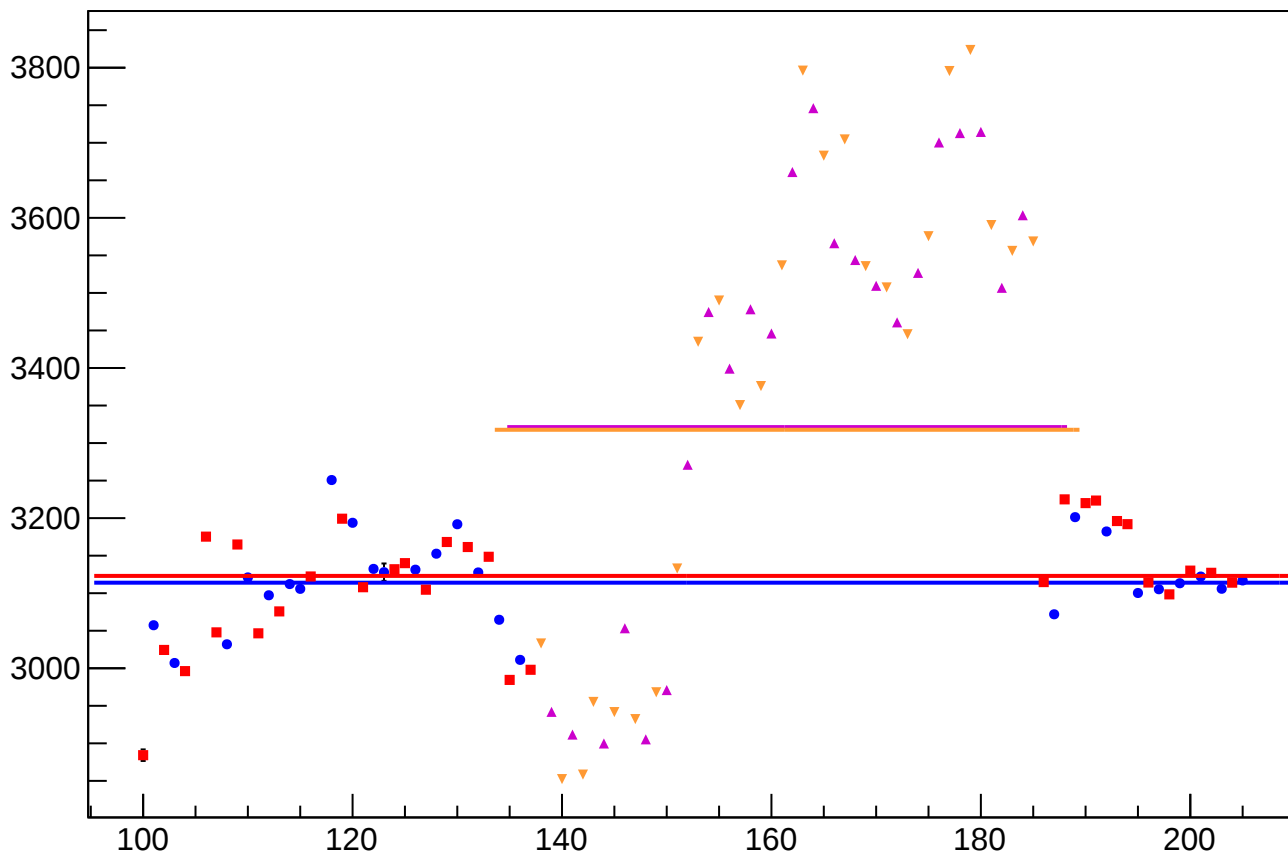
Right: -24.655 ± 0.597 χ^2/NDF : 2217.0/55

In: -14.056 ± 0.587 χ^2/NDF : 1834.1/48

Out: -12.039 ± 0.566 χ^2/NDF : 1461.4/54

All: -13.012 ± 0.407 χ^2/NDF : 3301.5/103

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.005 $\pm$ 0.609 χ^2 /NDF: 9190.8/25

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

Right Out: 3123.043 $\pm$ 0.585 χ^2 /NDF: 13757.7/29

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

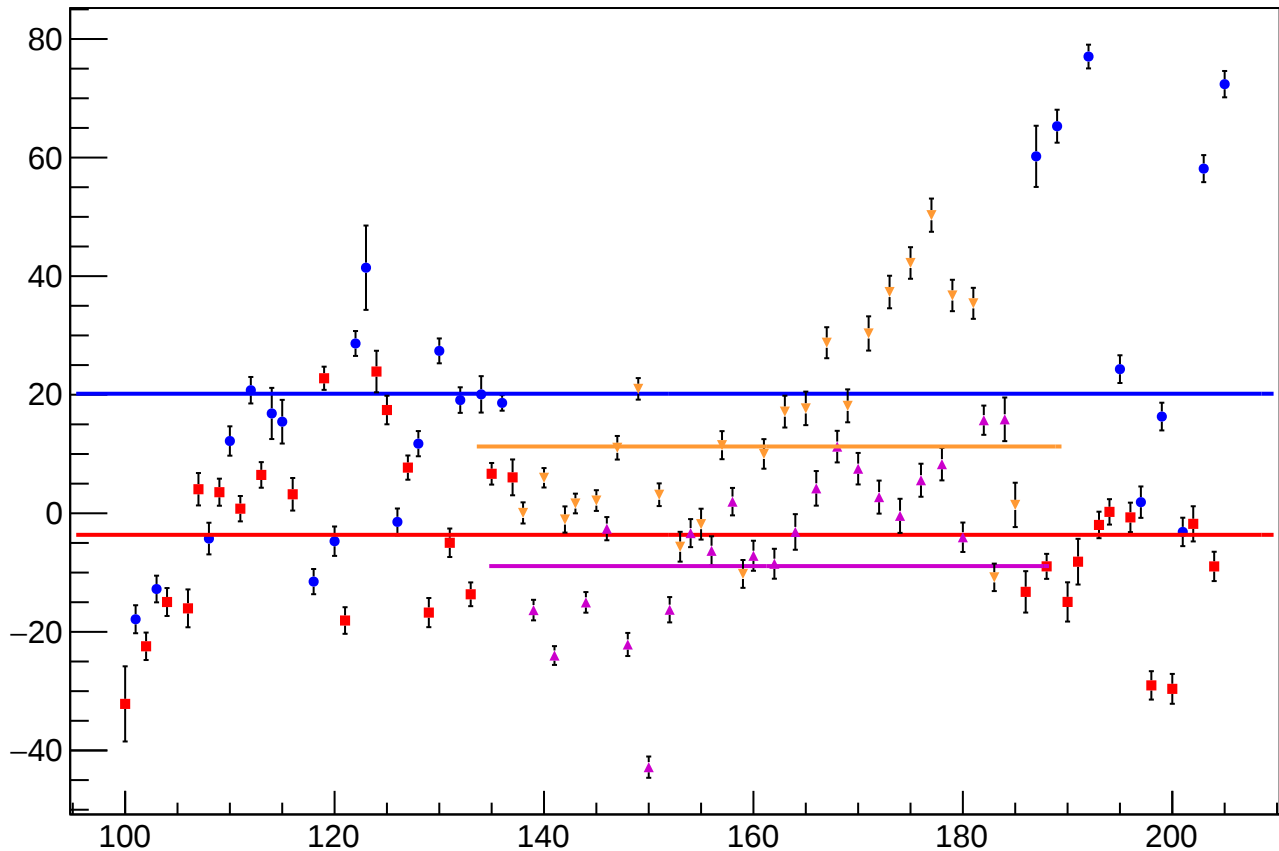
Right: 3118.709 $\pm$ 0.422 χ^2 /NDF: 23063.0/55

In: 3225.285 $\pm$ 0.415 χ^2 /NDF:355626.0/48

Out: 3226.550 $\pm$ 0.400 χ^2 /NDF:409511.9/54

All: 3225.940 $\pm$ 0.288 χ^2 /NDF: 765142.7/103

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 20.167 ± 0.462 $\chi^2/\text{NDF}: 3146.1/25$

Left Out: 11.268 ± 0.454 $\chi^2/\text{NDF}: 1141.8/24$

Right Out: -3.633 ± 0.448 $\chi^2/\text{NDF}: 919.4/29$

Left In: -8.905 ± 0.478 $\chi^2/\text{NDF}: 936.3/22$

Left: 1.682 ± 0.329 $\chi^2/\text{NDF}: 3014.7/47$

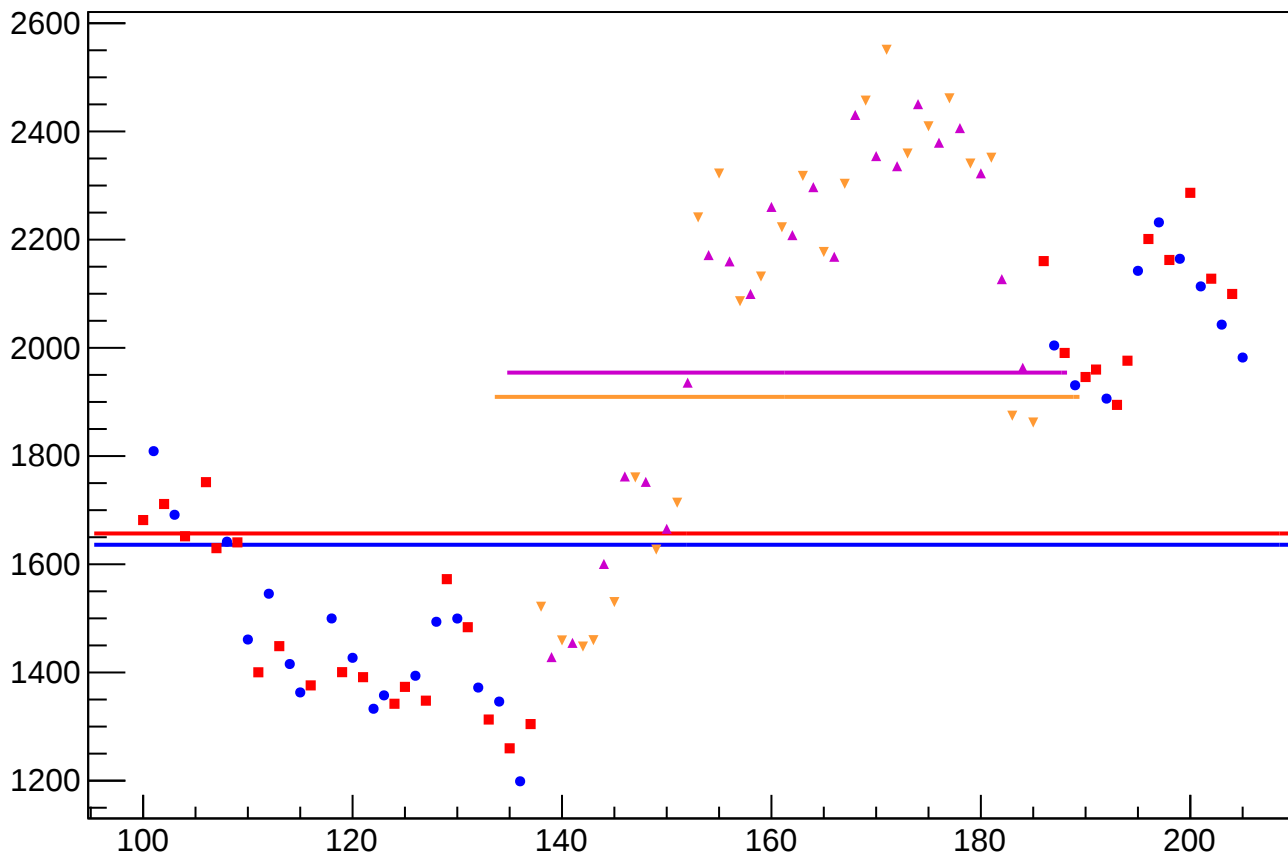
Right: 7.886 ± 0.322 $\chi^2/\text{NDF}: 5432.6/55$

In: 6.099 ± 0.332 $\chi^2/\text{NDF}: 5995.3/48$

Out: 3.710 ± 0.319 $\chi^2/\text{NDF}: 2606.7/54$

All: 4.856 ± 0.230 $\chi^2/\text{NDF}: 8628.9/103$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1636.043 $\pm$ 0.327 χ^2 /NDF: 976124.4/25

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

Right Out: 1656.921 $\pm$ 0.317 χ^2 /NDF: 1027641.6/29

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

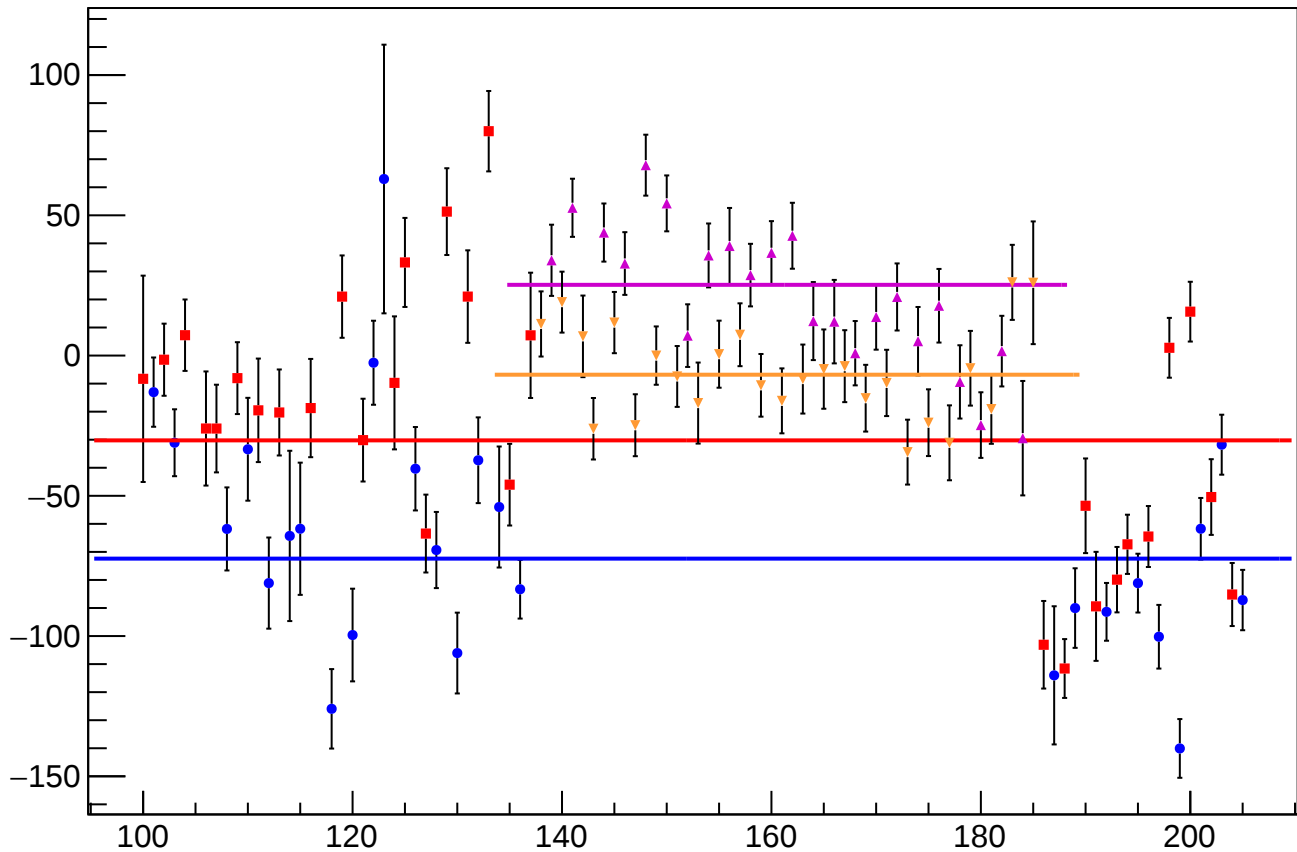
Right: 1646.816 $\pm$ 0.227 χ^2 /NDF: 2005870.0/55

In: 1790.020 $\pm$ 0.235 χ^2 /NDF:2479253.1/48

Out: 1781.322 $\pm$ 0.226 χ^2 /NDF:2739366.4/54

All: 1785.494 $\pm$ 0.163 χ^2 /NDF: 5219333.0/10

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -72.396 ± 2.679 χ^2/NDF : 178.2/25

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

Right Out: -30.237 ± 2.575 χ^2/NDF : 341.3/29

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

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

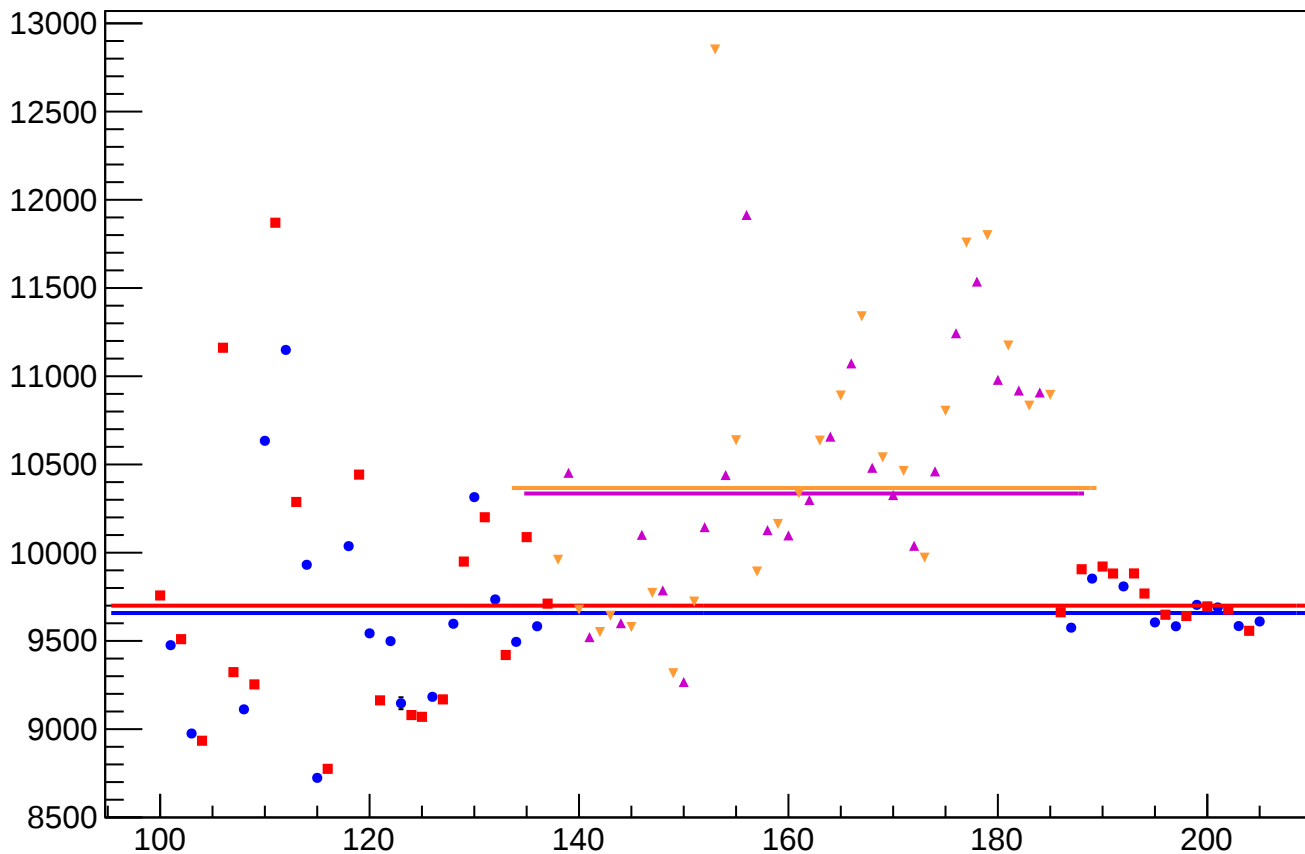
Right: -50.488 ± 1.857 χ^2/NDF : 648.2/55

In: -19.966 ± 1.822 χ^2/NDF : 980.7/48

Out: -17.816 ± 1.765 χ^2/NDF : 427.5/54

All: -18.856 ± 1.268 χ^2/NDF : 1408.9/103

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9658.192 ± 1.894 $\chi^2/\text{NDF}: 45174.3/25$

Left Out: 10366.534 ± 1.713 $\chi^2/\text{NDF}: 211402.8/24$

Right Out: 9699.919 ± 1.821 $\chi^2/\text{NDF}: 79833.1/29$

Left In: 10335.399 ± 1.758 $\chi^2/\text{NDF}: 127173.0/22$

Left: 10351.373 ± 1.227 $\chi^2/\text{NDF}: 338736.7/47$

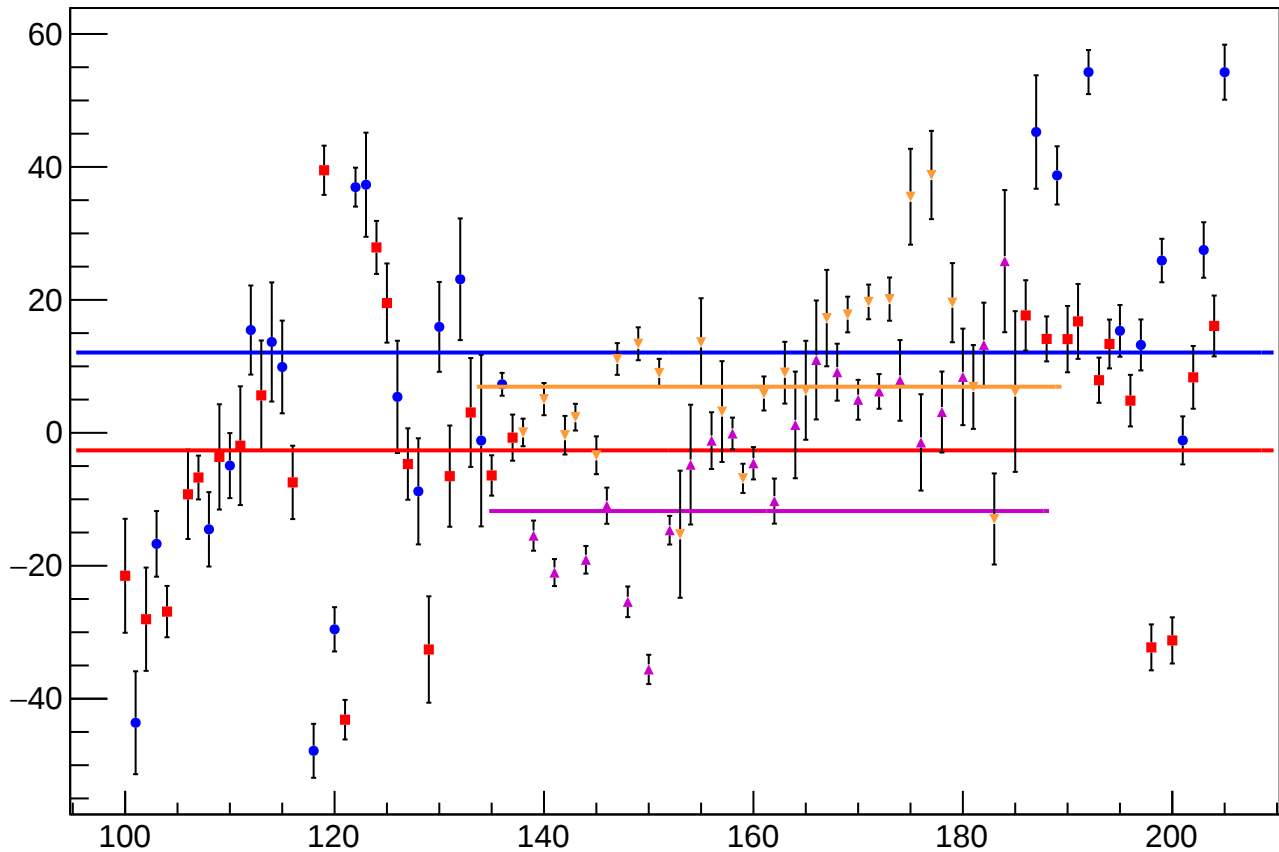
Right: 9679.875 ± 1.313 $\chi^2/\text{NDF}: 125259.7/55$

In: 10021.940 ± 1.289 $\chi^2/\text{NDF}: 241010.3/48$

Out: 10053.595 ± 1.248 $\chi^2/\text{NDF}: 362328.6/54$

All: 10038.278 ± 0.896 $\chi^2/\text{NDF}: 603650.3/100$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 12.080 $\pm$ 0.829 χ^2/NDF : 959.1/25

Left Out: 6.939 $\pm$ 0.639 χ^2/NDF :203.8/24

Right Out: -2.641 $\pm$ 0.811 χ^2/NDF : 721.2/29

Left In: -11.766 $\pm$ 0.648 χ^2/NDF :395.1/22

Left: -2.274 $\pm$ 0.455 χ^2/NDF : 1021.3/47

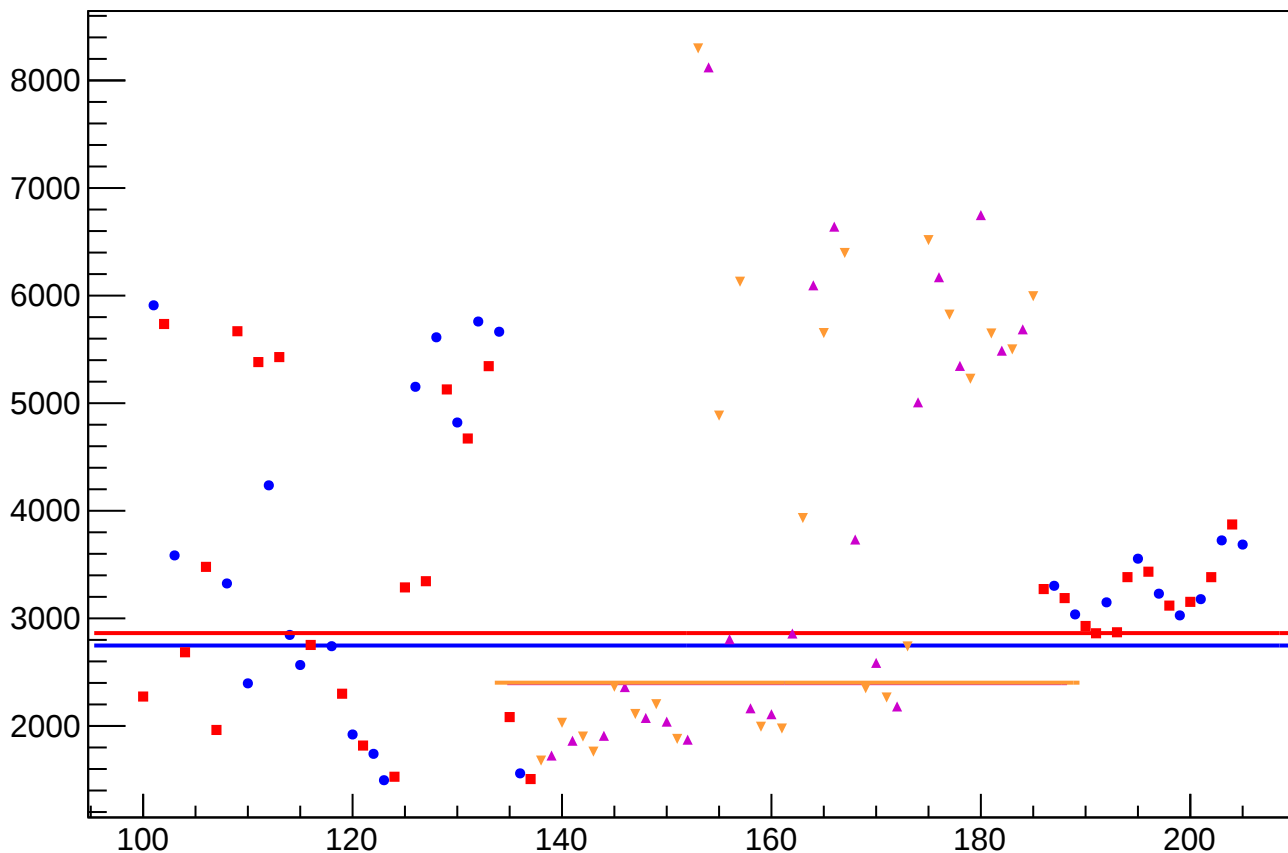
Right: 4.559 $\pm$ 0.580 χ^2/NDF : 1841.4/55

In: -2.716 $\pm$ 0.511 χ^2/NDF :1867.6/48

Out: 3.272 $\pm$ 0.502 χ^2/NDF :1011.2/54

All: 0.330 $\pm$ 0.358 χ^2/NDF : 2948.7/103

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2747.710 ± 0.586 $\chi^2/\text{NDF}: 3234880.1/25$

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

Right Out: 2863.195 ± 0.574 $\chi^2/\text{NDF}: 2756536.2/29$

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

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

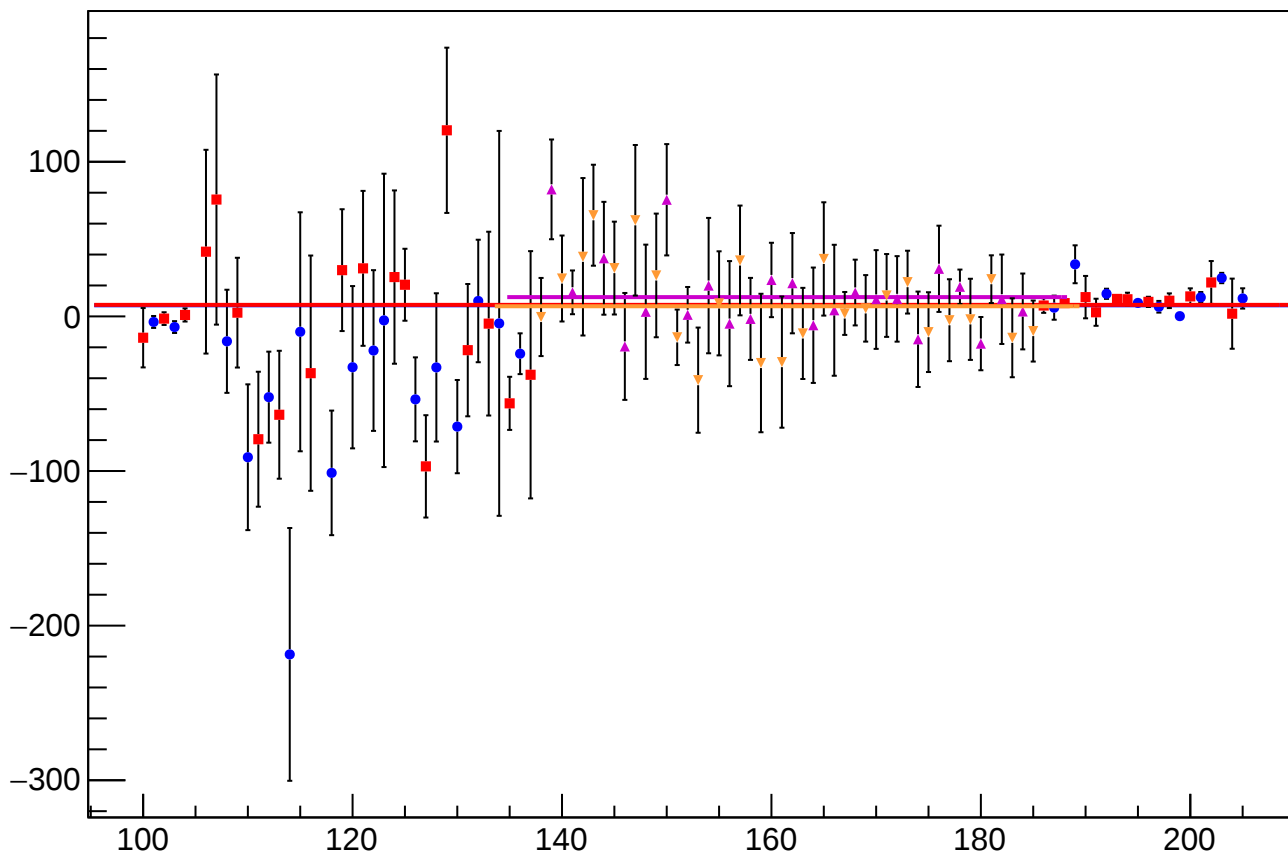
Right: 2806.712 ± 0.410 $\chi^2/\text{NDF}: 6011243.6/55$

In: 2530.530 ± 0.361 $\chi^2/\text{NDF}: 8854997.1/48$

Out: 2578.745 ± 0.355 $\chi^2/\text{NDF}: 9500972.4/54$

All: 2555.060 ± 0.253 $\chi^2/\text{NDF}: 18365038.5/101$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 7.175 $\pm$ 1.167 χ^2 /NDF: 109.9/25

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

Right Out: 7.458 $\pm$ 1.238 χ^2 /NDF: 52.4/29

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

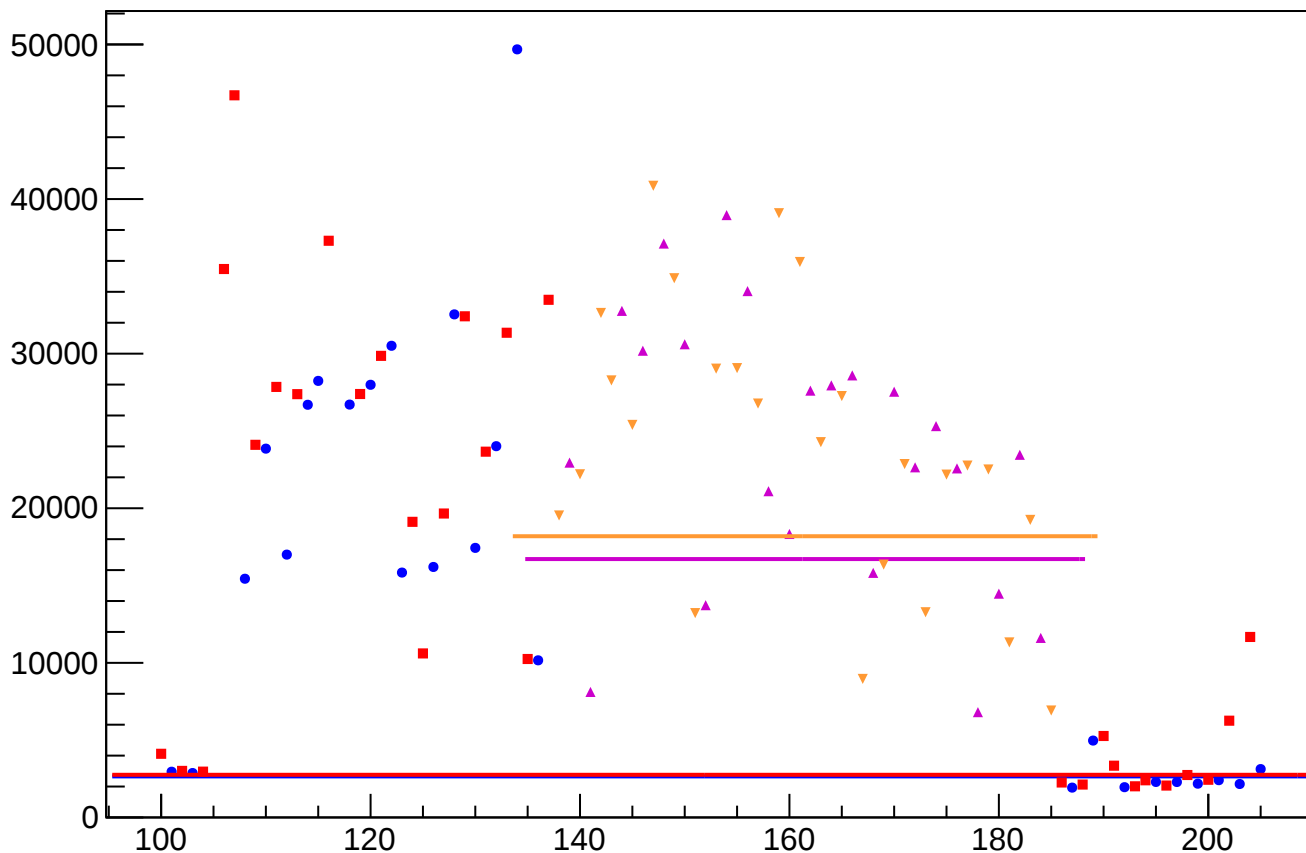
Right: 7.308 $\pm$ 0.849 χ^2 /NDF: 162.4/55

In: 7.446 $\pm$ 1.137 χ^2 /NDF:126.4/48

Out: 7.408 $\pm$ 1.203 χ^2 /NDF:69.2/54

All: 7.428 $\pm$ 0.826 χ^2 /NDF: 195.6/103

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2655.506 ± 0.825 $\chi^2/\text{NDF}: 6978915.3/25$

Left Out: 18190.387 ± 3.590 $\chi^2/\text{NDF}: 5261328.5/24$

Right Out: 2759.754 ± 0.876 $\chi^2/\text{NDF}: 8987831.7/29$

Left In: 16713.653 ± 3.553 $\chi^2/\text{NDF}: 6194178.8/22$

Left: 17444.397 ± 2.526 $\chi^2/\text{NDF}: 11540970.2/47$

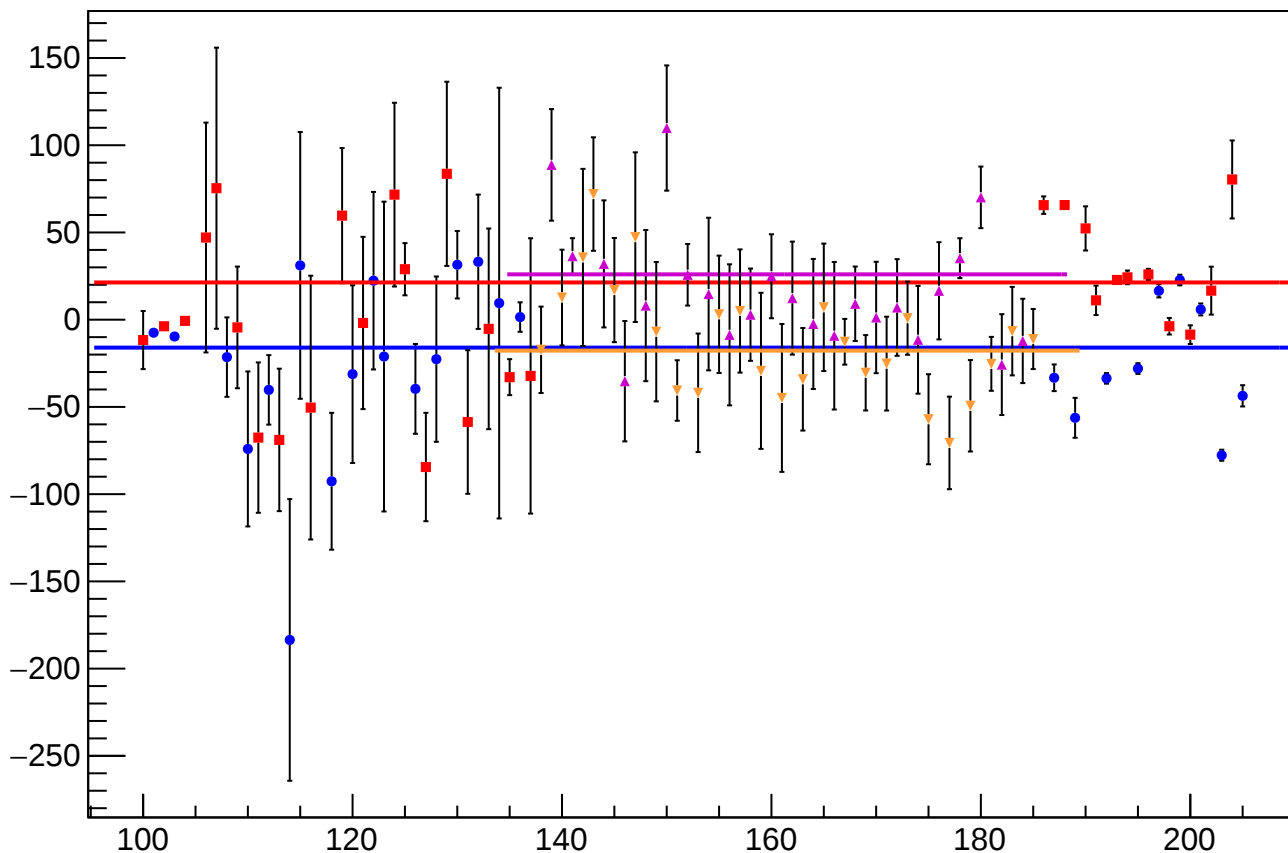
Right: 2704.546 ± 0.601 $\chi^2/\text{NDF}: 15974251.6/55$

In: 3375.142 ± 0.804 $\chi^2/\text{NDF}: 28023736.9/48$

Out: 3626.256 ± 0.851 $\chi^2/\text{NDF}: 31683699.1/54$

All: 3493.599 ± 0.584 $\chi^2/\text{NDF}: 59753457.1/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -16.009 ± 1.028 χ^2/NDF : 786.4/25

Left Out: -17.717 ± 4.974 χ^2/NDF : 27.2/24

Right Out: 21.348 ± 1.085 χ^2/NDF : 625.4/29

Left In: 25.991 ± 4.789 χ^2/NDF : 32.6/22

Left: 4.967 ± 3.450 χ^2/NDF : 99.8/47

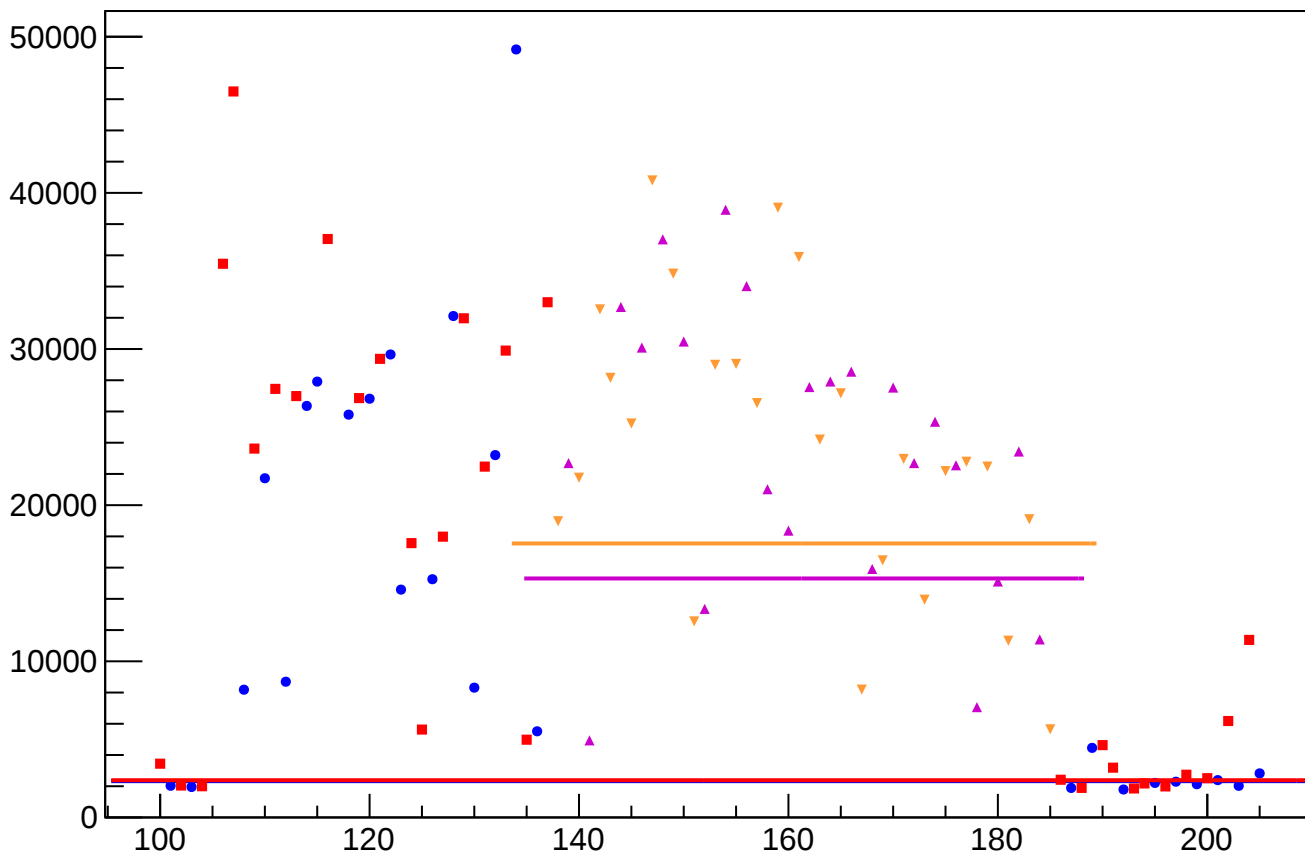
Right: 1.659 ± 0.746 χ^2/NDF : 2036.0/55

In: -14.158 ± 1.005 χ^2/NDF : 892.5/48

Out: 19.572 ± 1.061 χ^2/NDF : 711.4/54

All: 1.807 ± 0.730 χ^2/NDF : 2136.7/103

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2324.699 ± 0.727 $\chi^2/\text{NDF}: 5809094.5/25$

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

Right Out: 2384.875 ± 0.768 $\chi^2/\text{NDF}: 8638250.5/29$

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

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

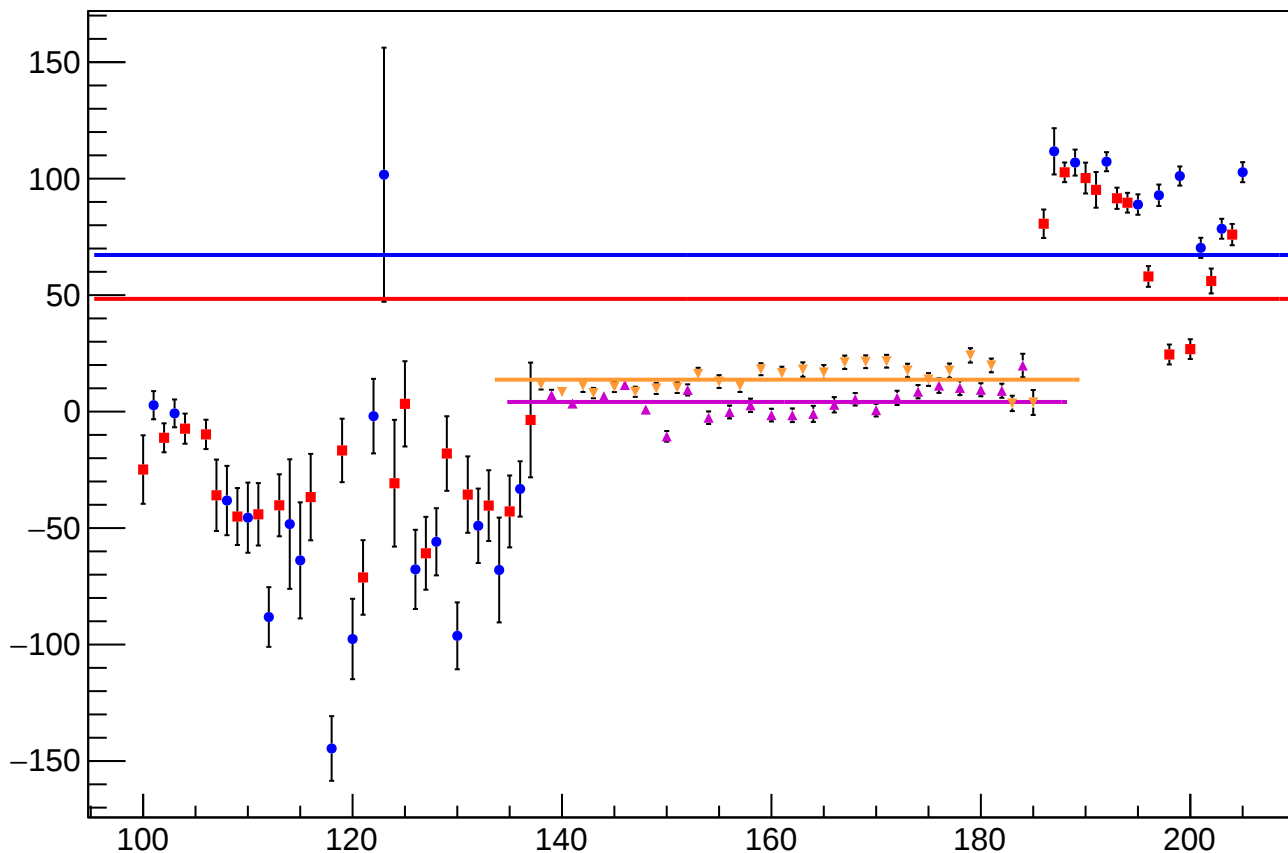
Right: 2353.160 ± 0.528 $\chi^2/\text{NDF}: 14450584.6/55$

In: 2896.781 ± 0.711 $\chi^2/\text{NDF}: 27577071.6/48$

Out: 3074.021 ± 0.750 $\chi^2/\text{NDF}: 32276560.9/54$

All: 2980.672 ± 0.516 $\chi^2/\text{NDF}: 59883054.7/101$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 67.230 $\pm$ 1.368 χ^2 /NDF: 1676.8/25

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

Right Out: 48.385 $\pm$ 1.280 χ^2 /NDF: 1313.9/29

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

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

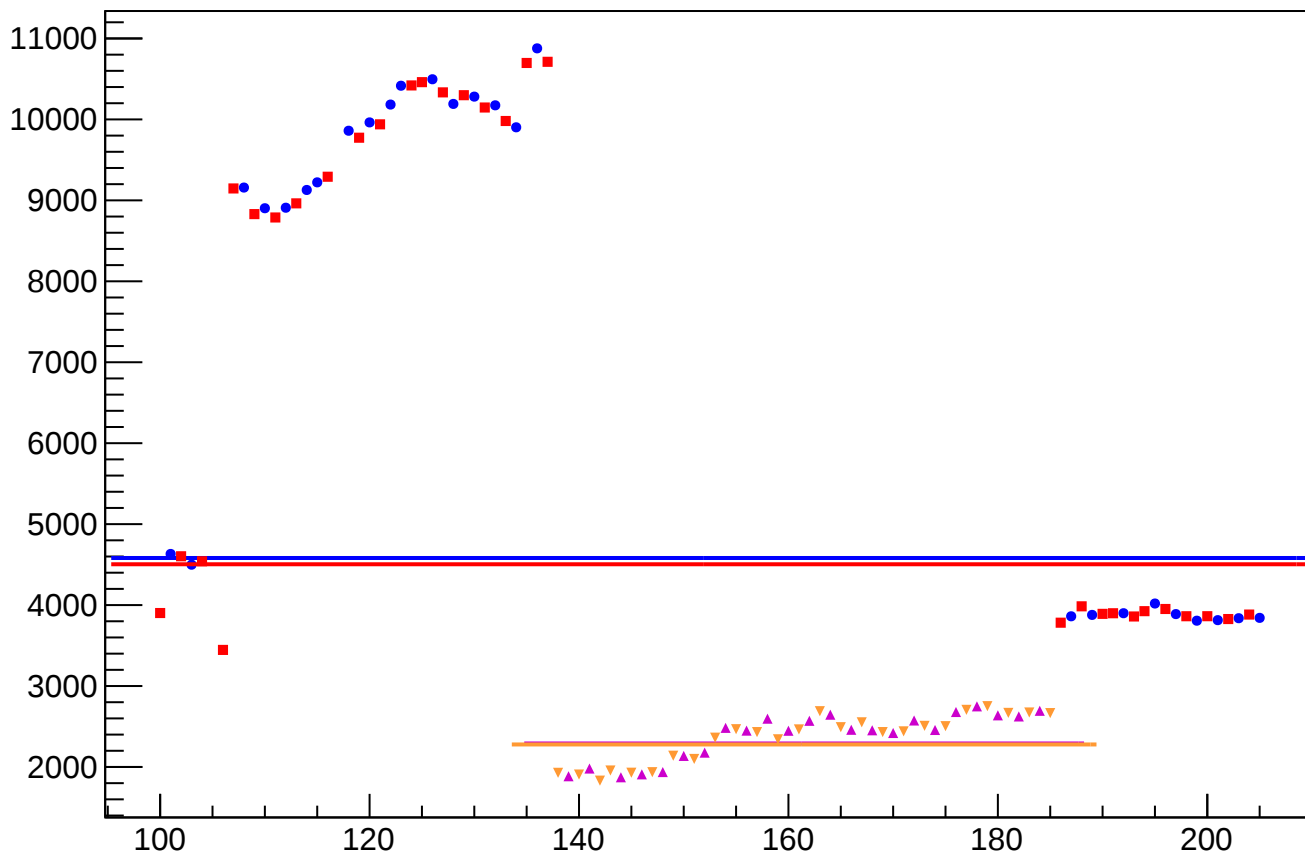
Right: 57.183 $\pm$ 0.934 χ^2 /NDF: 3091.9/55

In: 13.056 $\pm$ 0.514 χ^2 /NDF:3615.8/48

Out: 18.872 $\pm$ 0.494 χ^2 /NDF:2028.6/54

All: 16.081 $\pm$ 0.356 χ^2 /NDF: 5710.9/103

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4581.782 +/- 0.967 χ^2/NDF : 3666604.7/25

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

Right Out: 4504.266 +/- 0.905 χ^2/NDF : 3734208.8/29

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

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

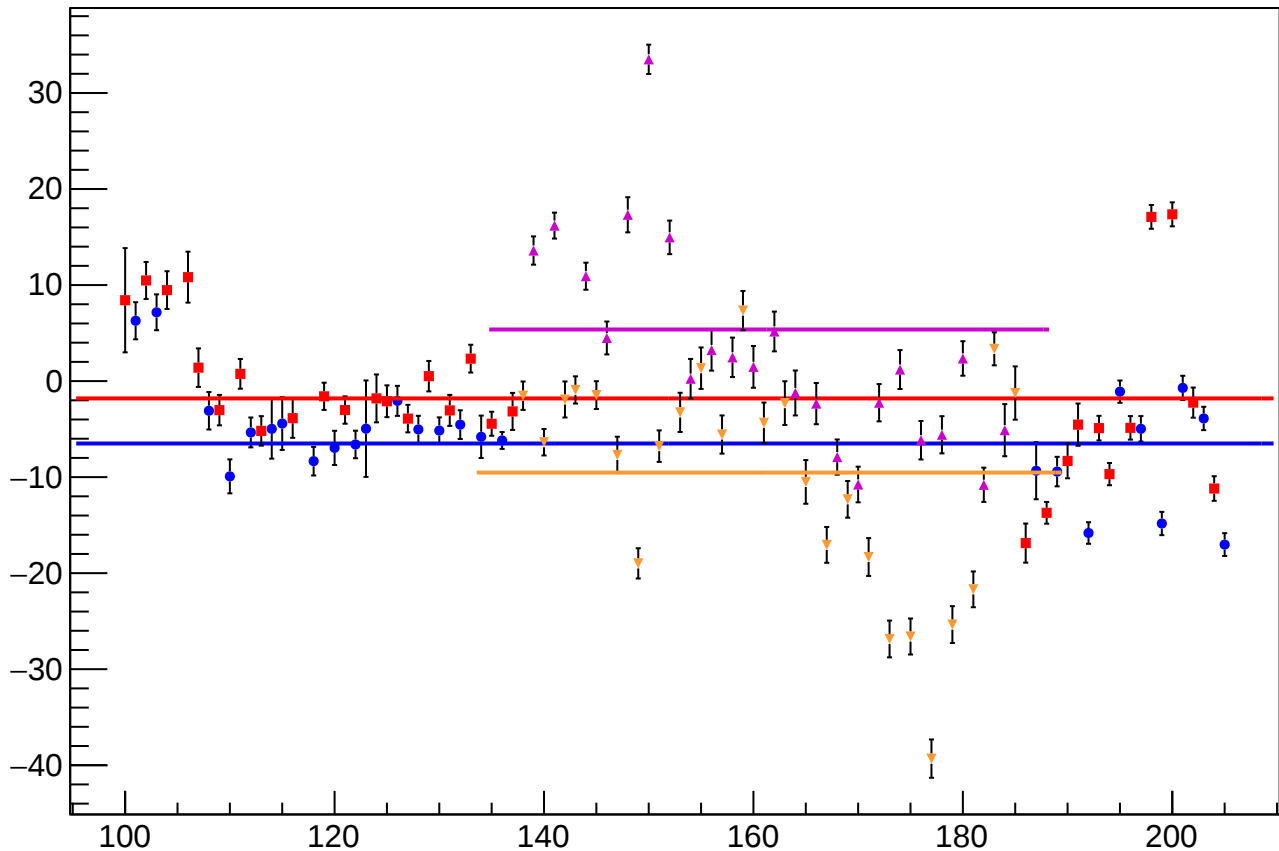
Right: 4540.455 +/- 0.661 χ^2/NDF : 7404239.0/55

In: 2614.253 +/- 0.364 χ^2/NDF : 9077539.2/48

Out: 2609.541 +/- 0.349 χ^2/NDF : 9491916.6/54

All: 2611.802 +/- 0.252 χ^2/NDF : 18569543.1/101

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -6.499 ± 0.291 χ^2/NDF : 366.7/25

Left Out: -9.524 ± 0.365 χ^2/NDF : 884.1/24

Right Out: -1.803 ± 0.283 χ^2/NDF : 891.3/29

Left In: 5.372 ± 0.383 χ^2/NDF : 869.8/22

Left: -2.437 ± 0.264 χ^2/NDF : 2547.3/47

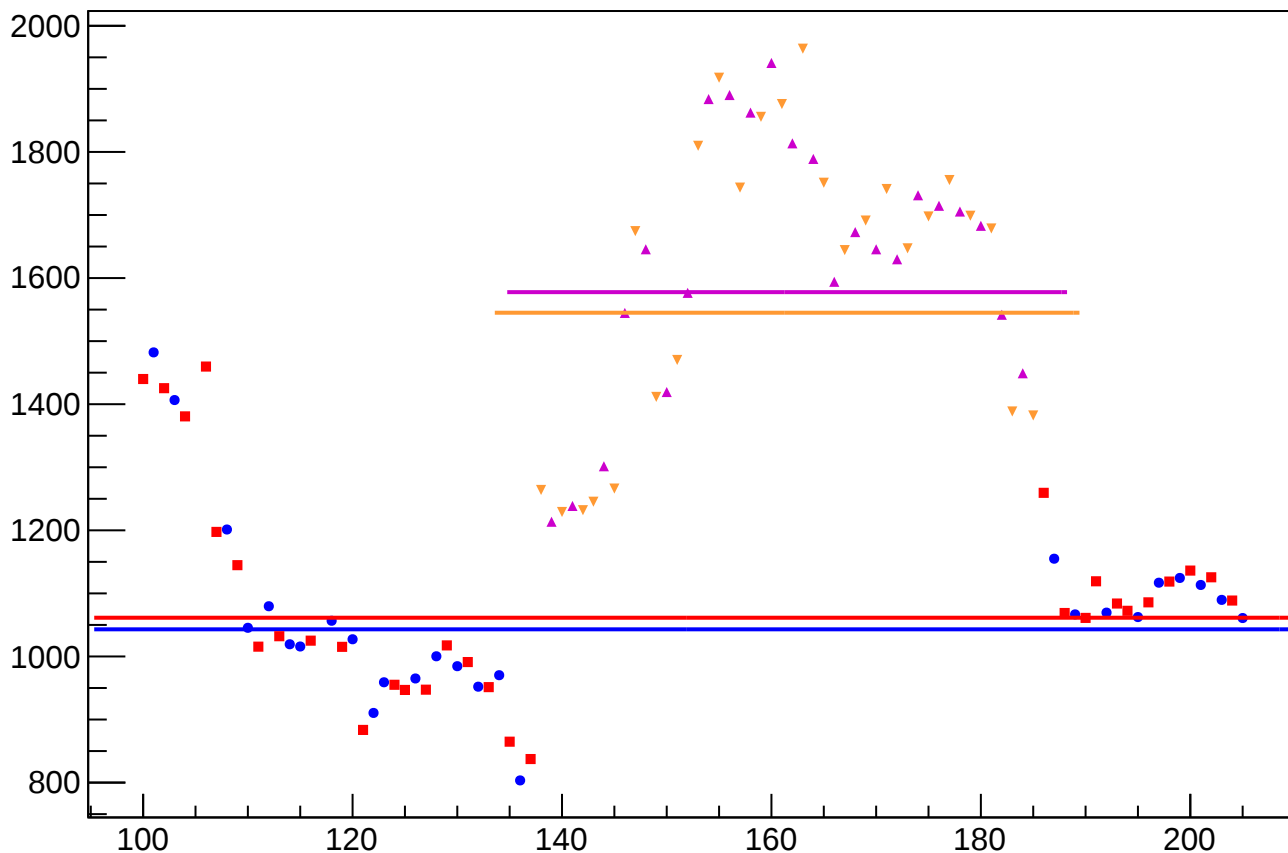
Right: -4.087 ± 0.203 χ^2/NDF : 1391.8/55

In: -2.151 ± 0.232 χ^2/NDF : 1845.7/48

Out: -4.707 ± 0.224 χ^2/NDF : 2055.0/54

All: -3.474 ± 0.161 χ^2/NDF : 3963.6/103

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1043.026 $\pm$ 0.206 χ^2/NDF : 410276.1/25

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

Right Out: 1061.429 $\pm$ 0.200 χ^2/NDF : 386886.8/29

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

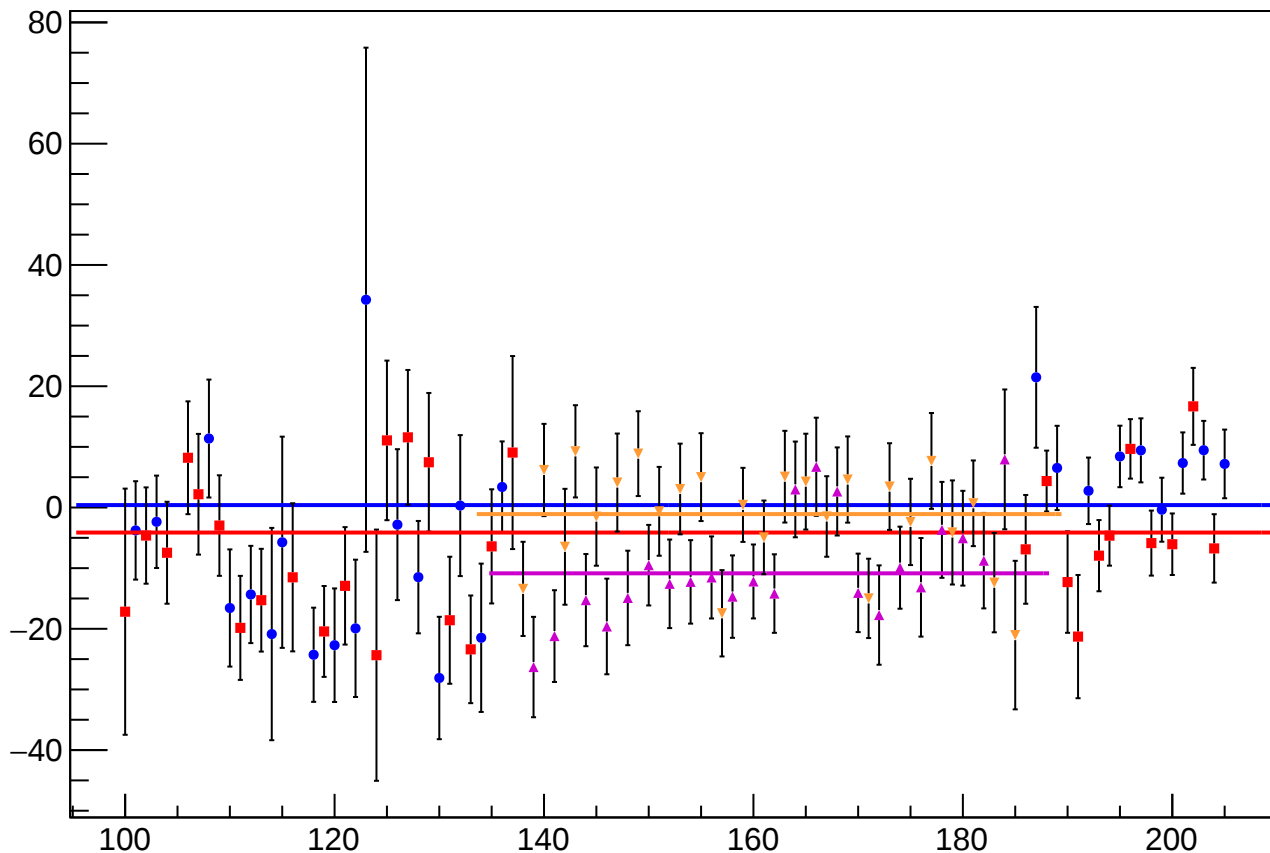
Right: 1052.481 $\pm$ 0.144 χ^2/NDF : 801269.5/55

In: 1238.859 $\pm$ 0.164 χ^2/NDF : 3506882.5/48

Out: 1243.313 $\pm$ 0.158 χ^2/NDF : 3423018.5/54

All: 1241.165 $\pm$ 0.114 χ^2/NDF : 6930283.4/10

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.402+/-1.479 χ^2/NDF : 59.4/25

Left Out: -1.083+/-1.487 χ^2/NDF : 27.5/24

Right Out: -4.126+/-1.401 χ^2/NDF : 52.8/29

Left In: -10.851+/-1.542 χ^2/NDF : 24.4/22

Left: -5.792+/-1.070 χ^2/NDF : 72.7/47

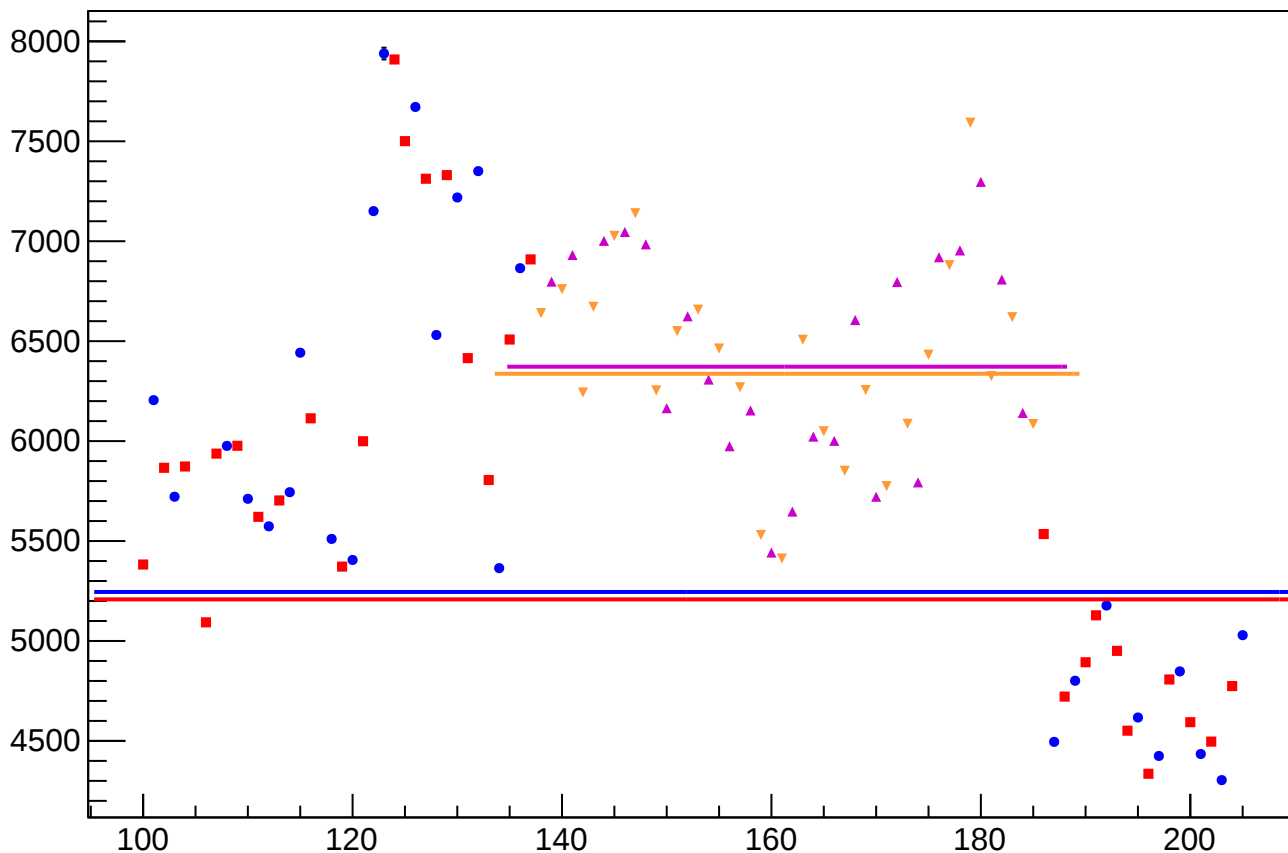
Right: -1.985+/-1.017 χ^2/NDF : 117.1/55

In: -4.991+/-1.067 χ^2/NDF : 111.5/48

Out: -2.696+/-1.020 χ^2/NDF : 82.5/54

All: -3.791+/-0.737 χ^2/NDF : 196.4/103

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5245.122 $\pm$ 1.046 χ^2/NDF : 721517.8/25

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

Right Out: 5208.212 $\pm$ 0.991 χ^2/NDF : 627790.5/29

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

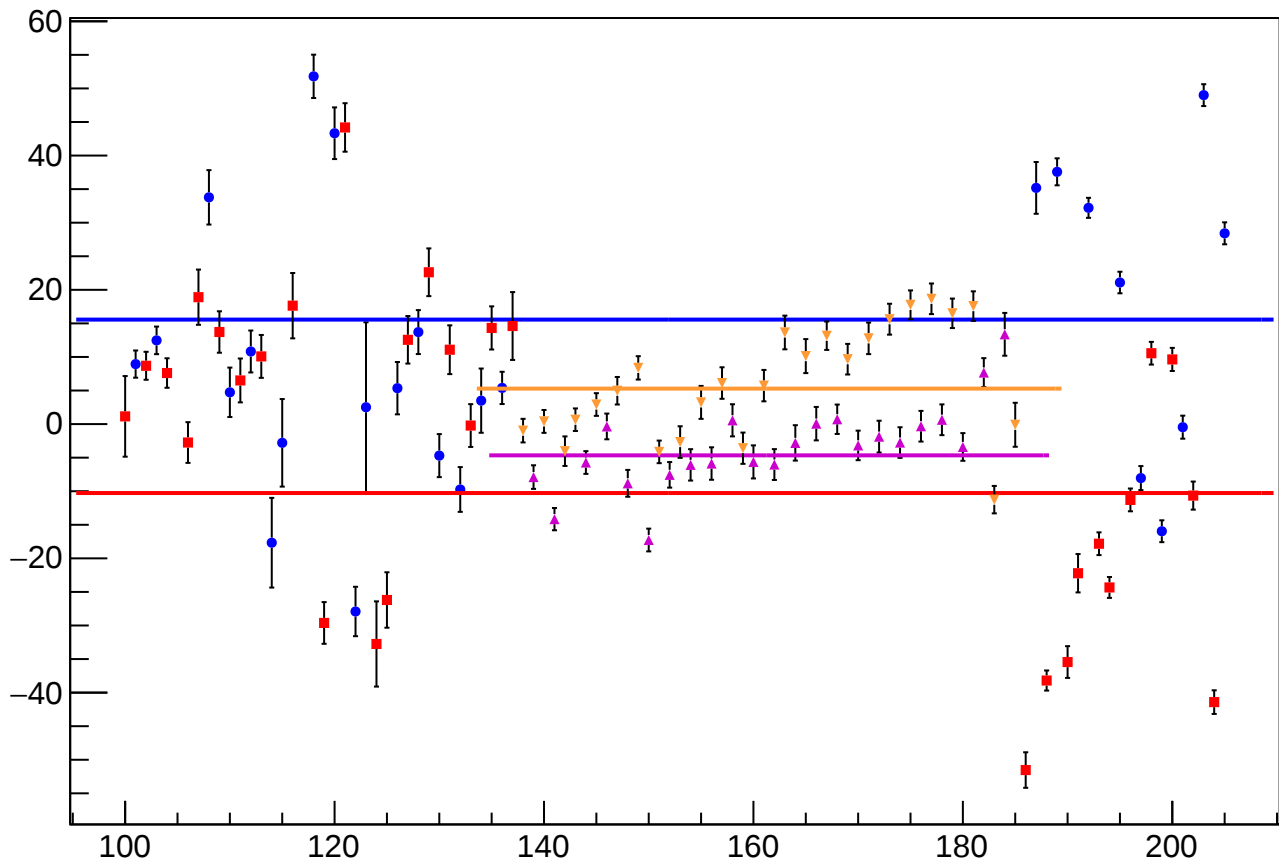
Right: 5225.666 $\pm$ 0.719 χ^2/NDF : 1349964.9/55

In: 5785.329 $\pm$ 0.755 χ^2/NDF : 1525615.9/48

Out: 5738.819 $\pm$ 0.721 χ^2/NDF : 1461119.0/54

All: 5761.015 $\pm$ 0.521 χ^2/NDF : 2988720.7/10

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 15.566 ± 0.471 χ^2/NDF : 1928.8/25

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

Right Out: -10.269 ± 0.450 χ^2/NDF : 2340.0/29

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

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

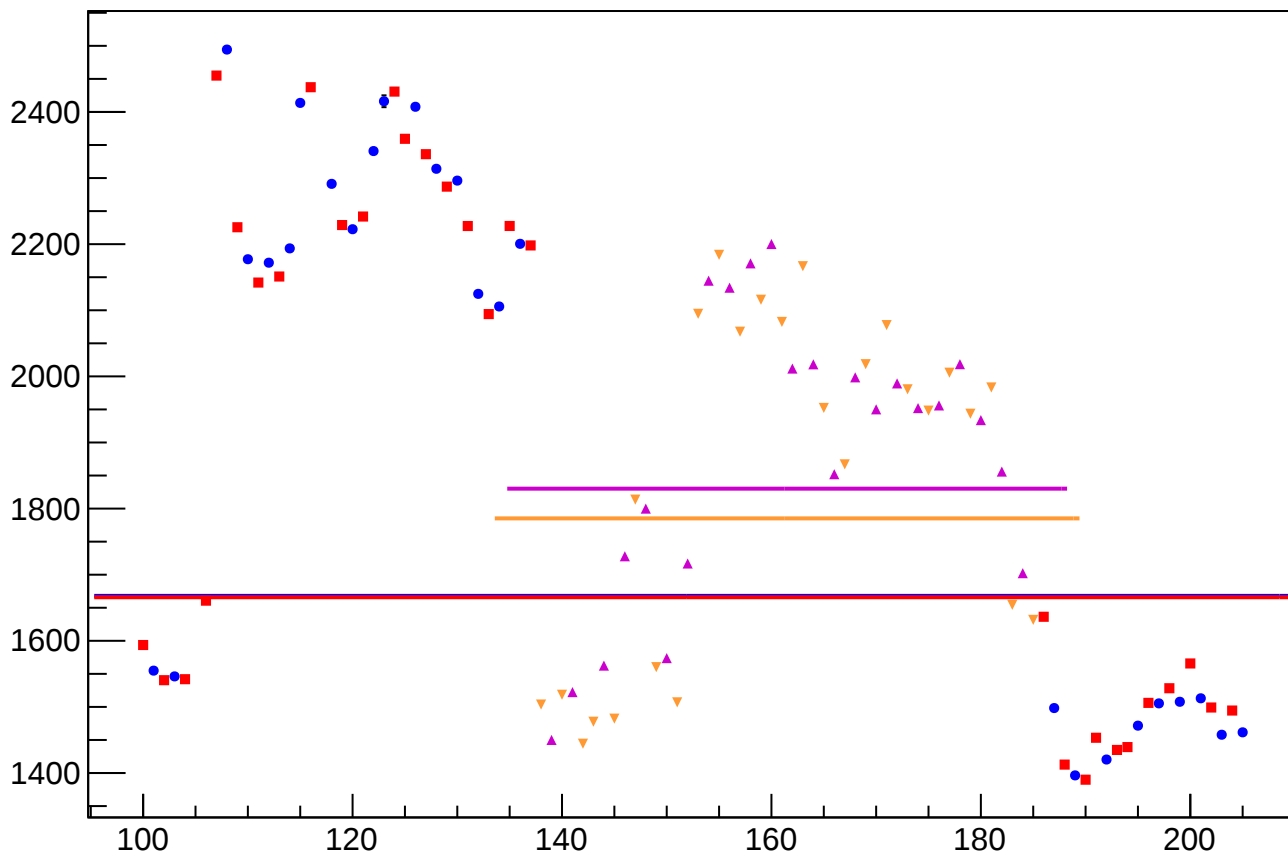
Right: 2.051 ± 0.325 χ^2/NDF : 5842.1/55

In: 4.841 ± 0.323 χ^2/NDF : 3102.6/48

Out: -1.973 ± 0.307 χ^2/NDF : 3343.9/54

All: 1.265 ± 0.223 χ^2/NDF : 6680.2/103

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1667.958 $\pm$ 0.333 χ^2 /NDF: 1037374.9/25

Left Out: 1785.179 $\pm$ 0.297 χ^2 /NDF: 750628.1/24

Right Out: 1665.894 $\pm$ 0.318 χ^2 /NDF: 1039030.7/29

Left In: 1830.160 $\pm$ 0.313 χ^2 /NDF: 508391.9/22

Left: 1806.491 $\pm$ 0.216 χ^2 /NDF: 1269853.4/47

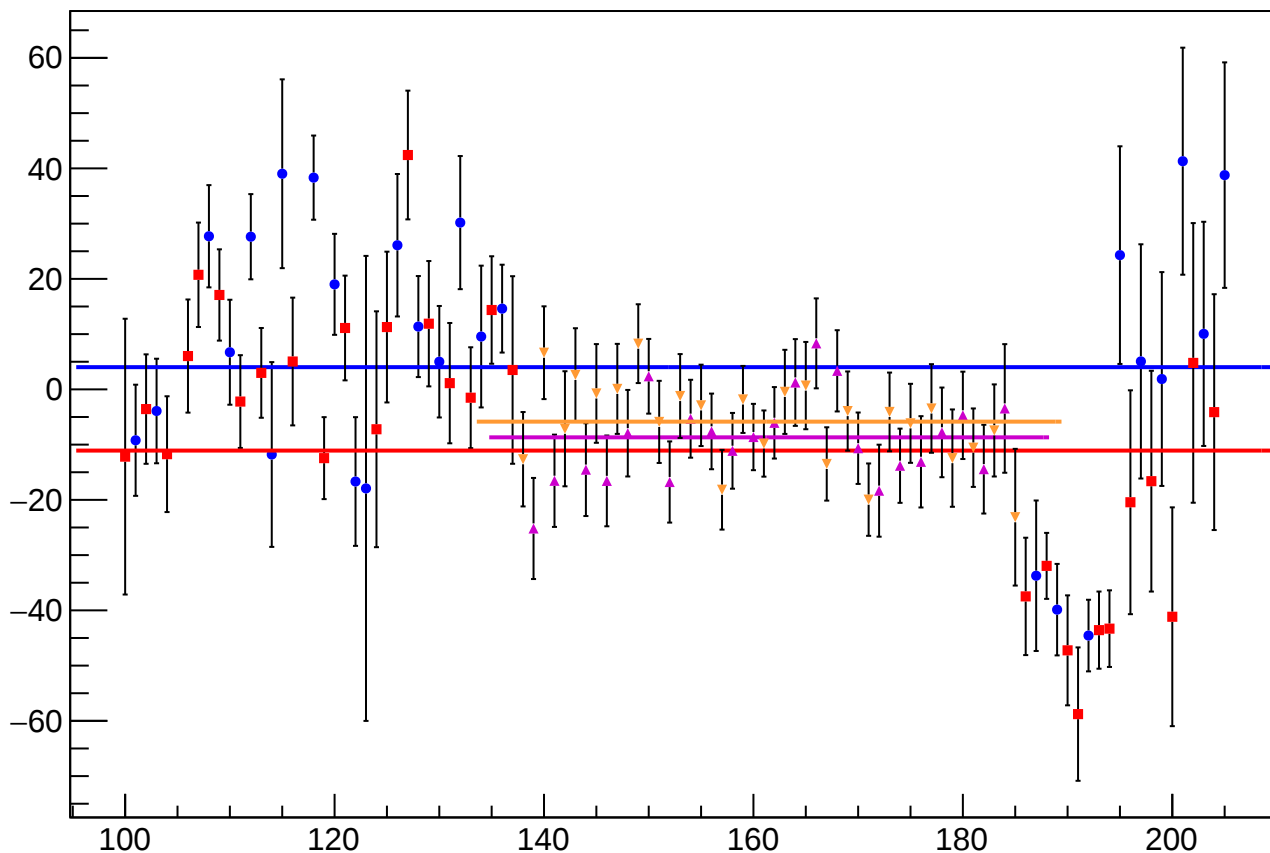
Right: 1666.878 $\pm$ 0.230 χ^2 /NDF: 2076425.7/55

In: 1753.980 $\pm$ 0.228 χ^2 /NDF: 1671504.3/48

Out: 1729.518 $\pm$ 0.217 χ^2 /NDF: 1864693.0/54

All: 1741.143 $\pm$ 0.157 χ^2 /NDF: 3542222.5/100

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 4.021 $\pm$ 2.133 χ^2/NDF : 159.5/25

Left Out: -5.840 $\pm$ 1.518 χ^2/NDF : 23.3/24

Right Out: -11.079 $\pm$ 1.870 χ^2/NDF : 169.3/29

Left In: -8.683 $\pm$ 1.571 χ^2/NDF : 21.9/22

Left: -7.214 $\pm$ 1.092 χ^2/NDF : 47.0/47

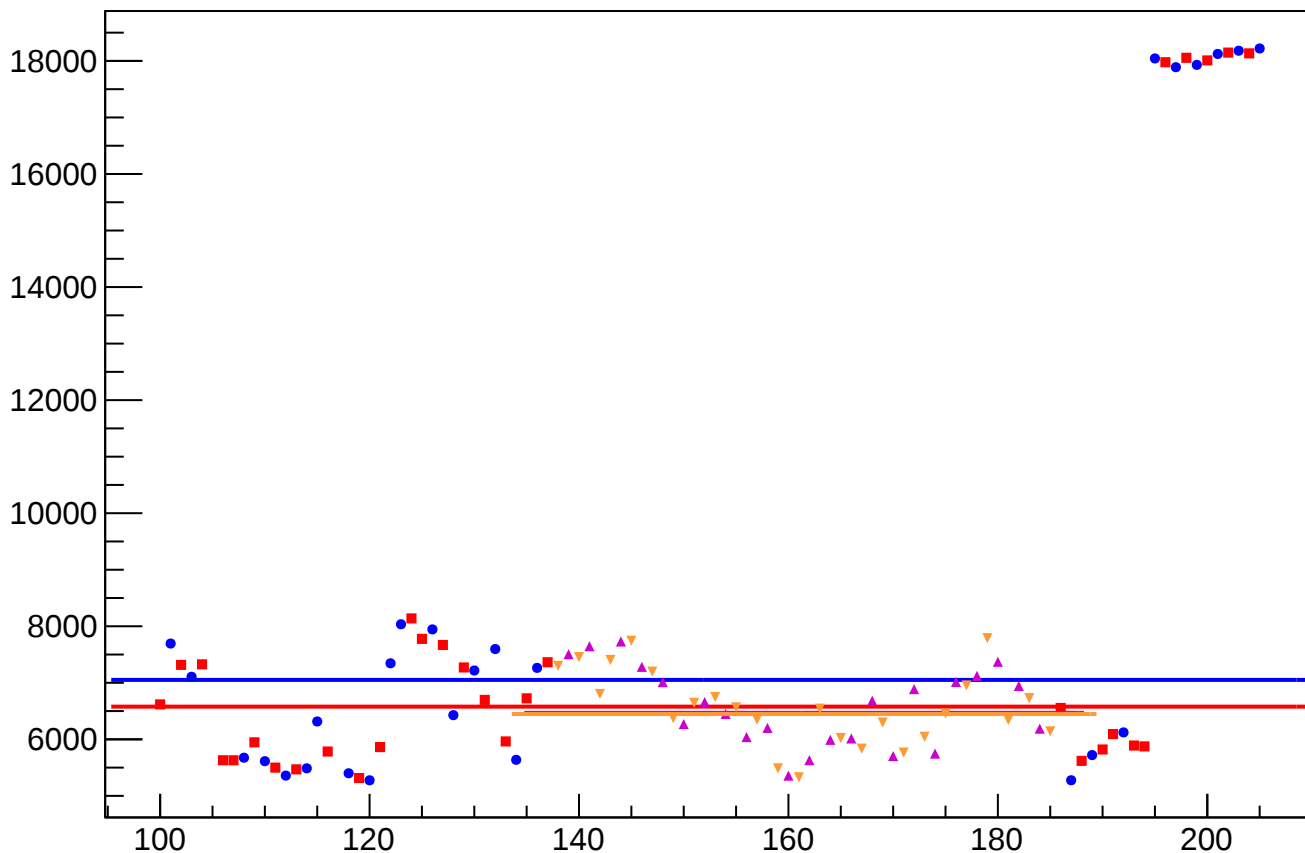
Right: -4.517 $\pm$ 1.406 χ^2/NDF : 357.1/55

In: -4.217 $\pm$ 1.265 χ^2/NDF : 204.4/48

Out: -7.922 $\pm$ 1.179 χ^2/NDF : 197.3/54

All: -6.200 $\pm$ 0.862 χ^2/NDF : 406.4/103

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7051.280+/-1.508 χ^2/NDF : 4122750.2/25

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

Right Out: 6578.537+/-1.322 χ^2/NDF : 3354410.2/29

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

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

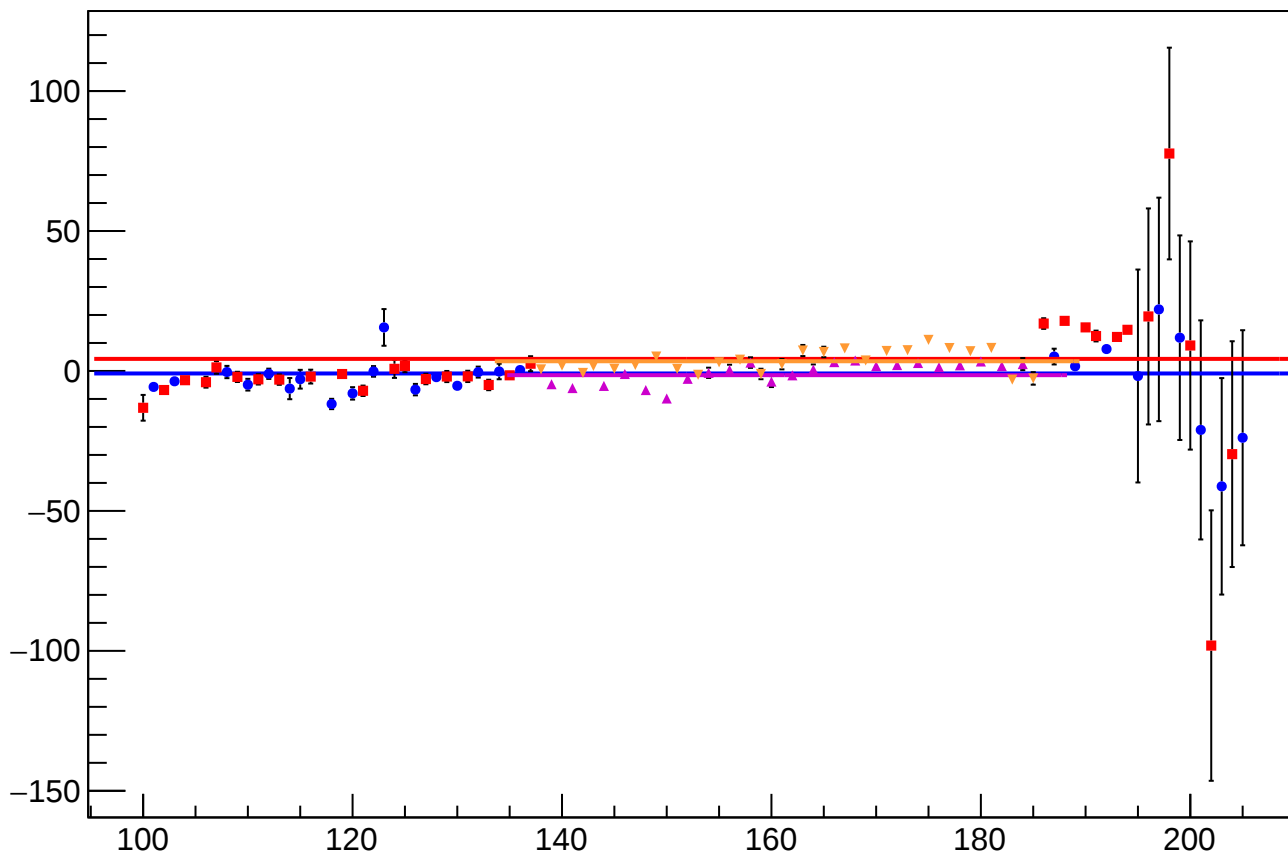
Right: 6783.978+/-0.994 χ^2/NDF : 7532707.3/55

In: 6673.639+/-0.894 χ^2/NDF : 4602751.0/48

Out: 6499.690+/-0.833 χ^2/NDF : 3731981.0/54

All: 6580.548+/-0.610 χ^2/NDF : 8354979.4/10

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.896 ± 0.406 χ^2/NDF : 173.5/25

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

Right Out: 4.314 ± 0.355 χ^2/NDF : 671.2/29

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

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

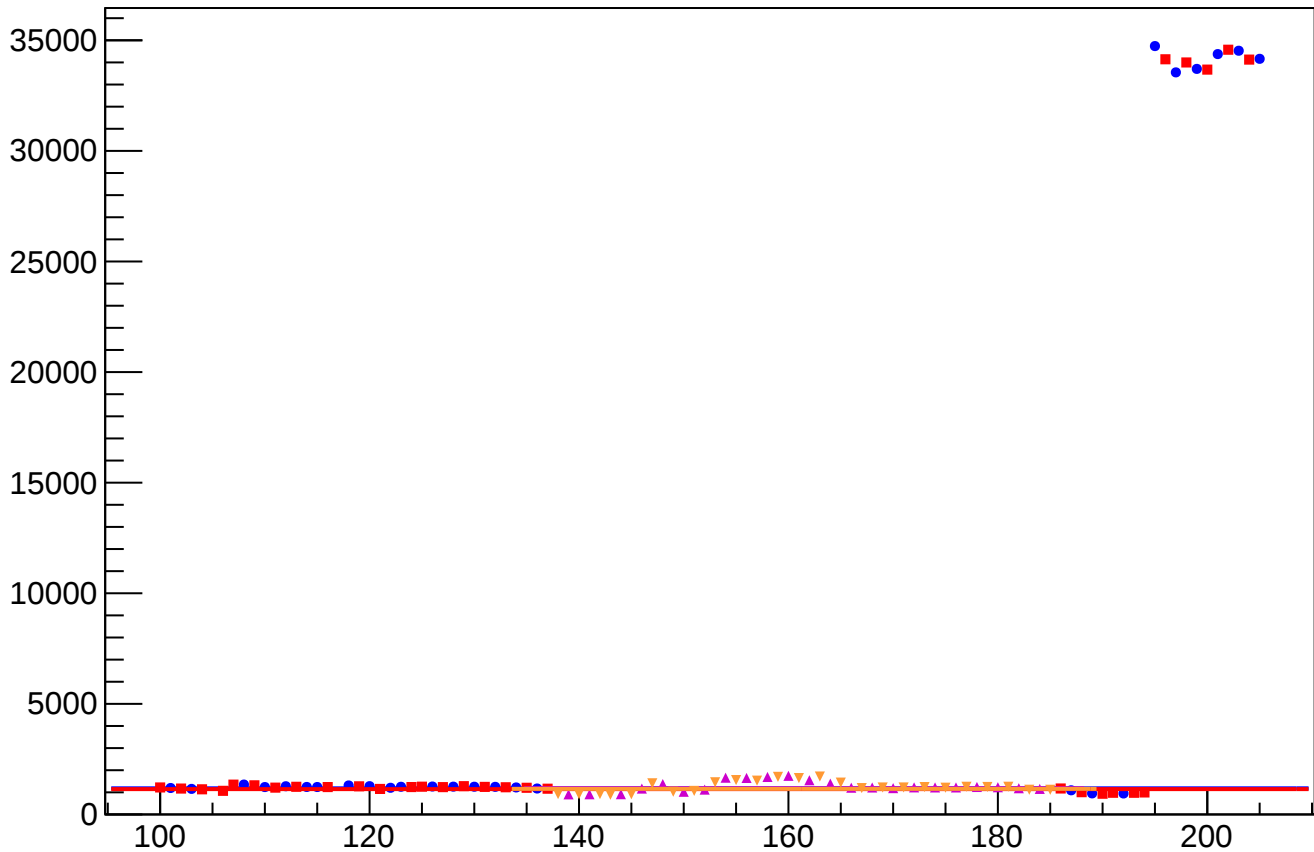
Right: 2.058 ± 0.267 χ^2/NDF : 938.2/55

In: -1.297 ± 0.236 χ^2/NDF : 377.7/48

Out: 3.789 ± 0.218 χ^2/NDF : 850.7/54

All: 1.451 ± 0.160 χ^2/NDF : 1478.7/103

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1181.124+/-0.287 χ^2/NDF : 9070947.0/25

Left Out: 1158.894+/-0.195 χ^2/NDF : 1410423.6/24

Right Out: 1145.490+/-0.251 χ^2/NDF : 7039959.6/29

Left In: 1184.966+/-0.206 χ^2/NDF : 1190431.5/22

Left: 1171.274+/-0.142 χ^2/NDF : 2609306.9/47

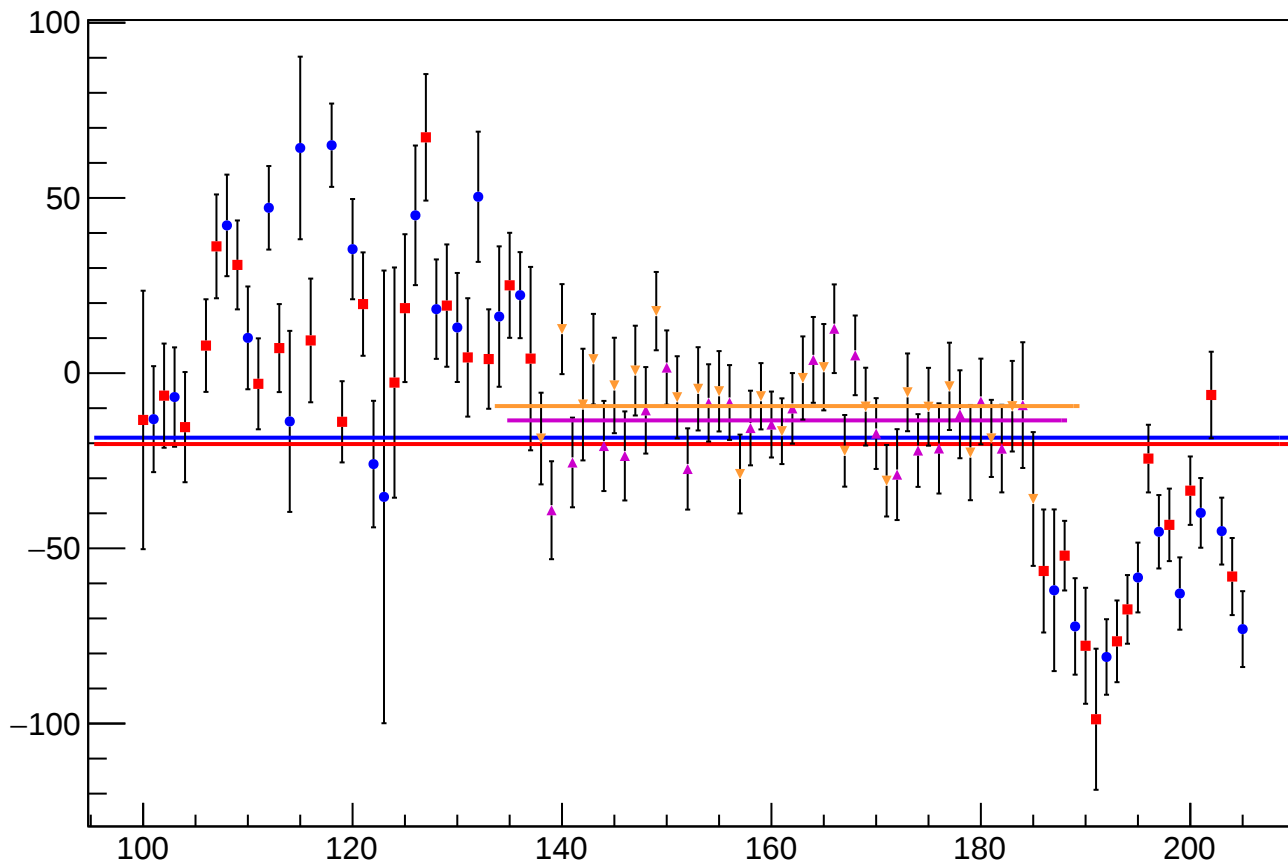
Right: 1160.923+/-0.189 χ^2/NDF : 16119655.4/55

In: 1183.663+/-0.167 χ^2/NDF : 10261497.2/48

Out: 1153.828+/-0.154 χ^2/NDF : 8452161.2/54

All: 1167.546+/-0.113 χ^2/NDF : 18730886.5/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -18.417 $\pm$ 2.657 χ^2/NDF : 306.4/25

Left Out: -9.398 $\pm$ 2.358 χ^2/NDF : 26.3/24

Right Out: -20.236 $\pm$ 2.501 χ^2/NDF : 209.0/29

Left In: -13.485 $\pm$ 2.443 χ^2/NDF : 21.6/22

Left: -11.369 $\pm$ 1.697 χ^2/NDF : 49.3/47

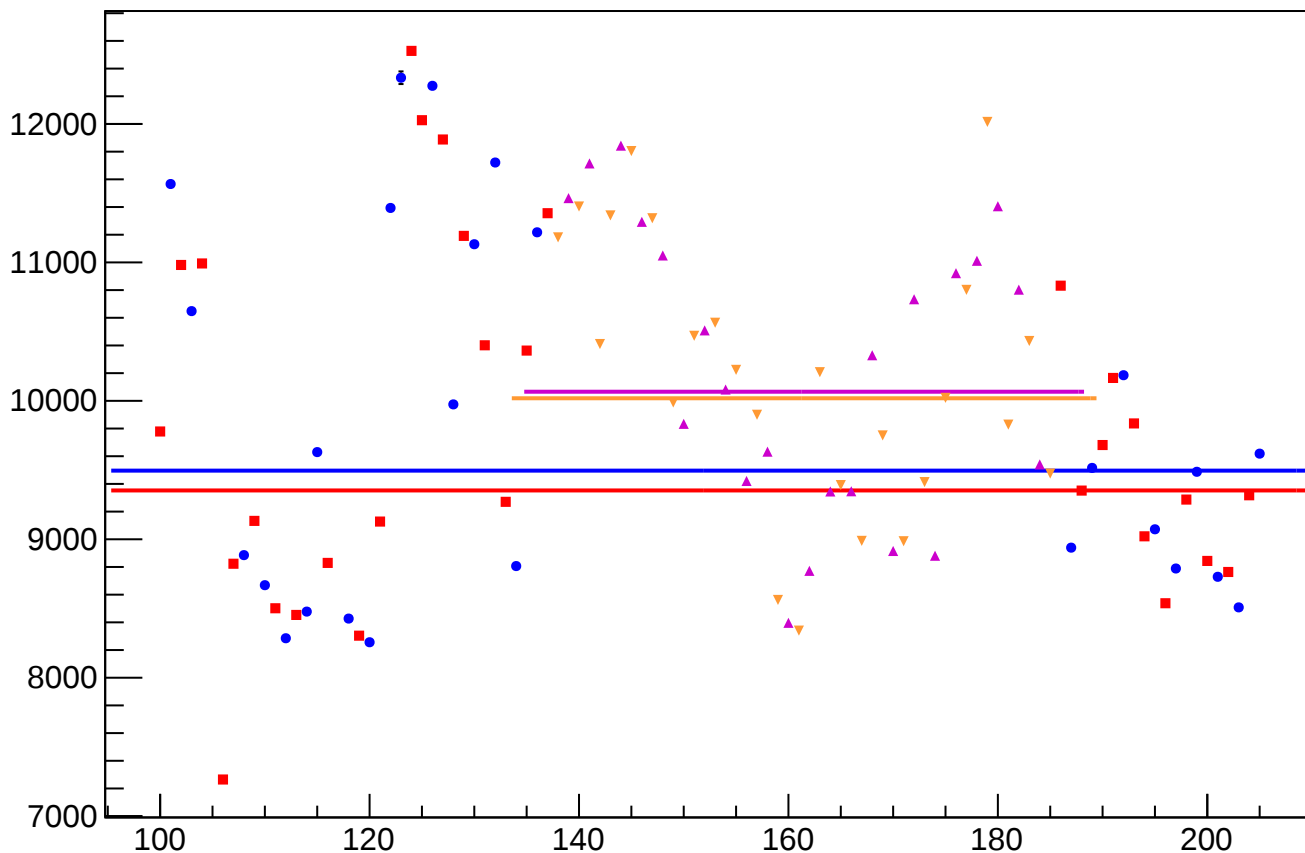
Right: -19.381 $\pm$ 1.821 χ^2/NDF : 515.7/55

In: -15.744 $\pm$ 1.798 χ^2/NDF : 329.8/48

Out: -14.499 $\pm$ 1.716 χ^2/NDF : 245.3/54

All: -15.093 $\pm$ 1.241 χ^2/NDF : 575.3/103

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9495.918 ± 1.879 $\chi^2/\text{NDF}: 330866.7/25$

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

Right Out: 9352.767 ± 1.768 $\chi^2/\text{NDF}: 325895.8/29$

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

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

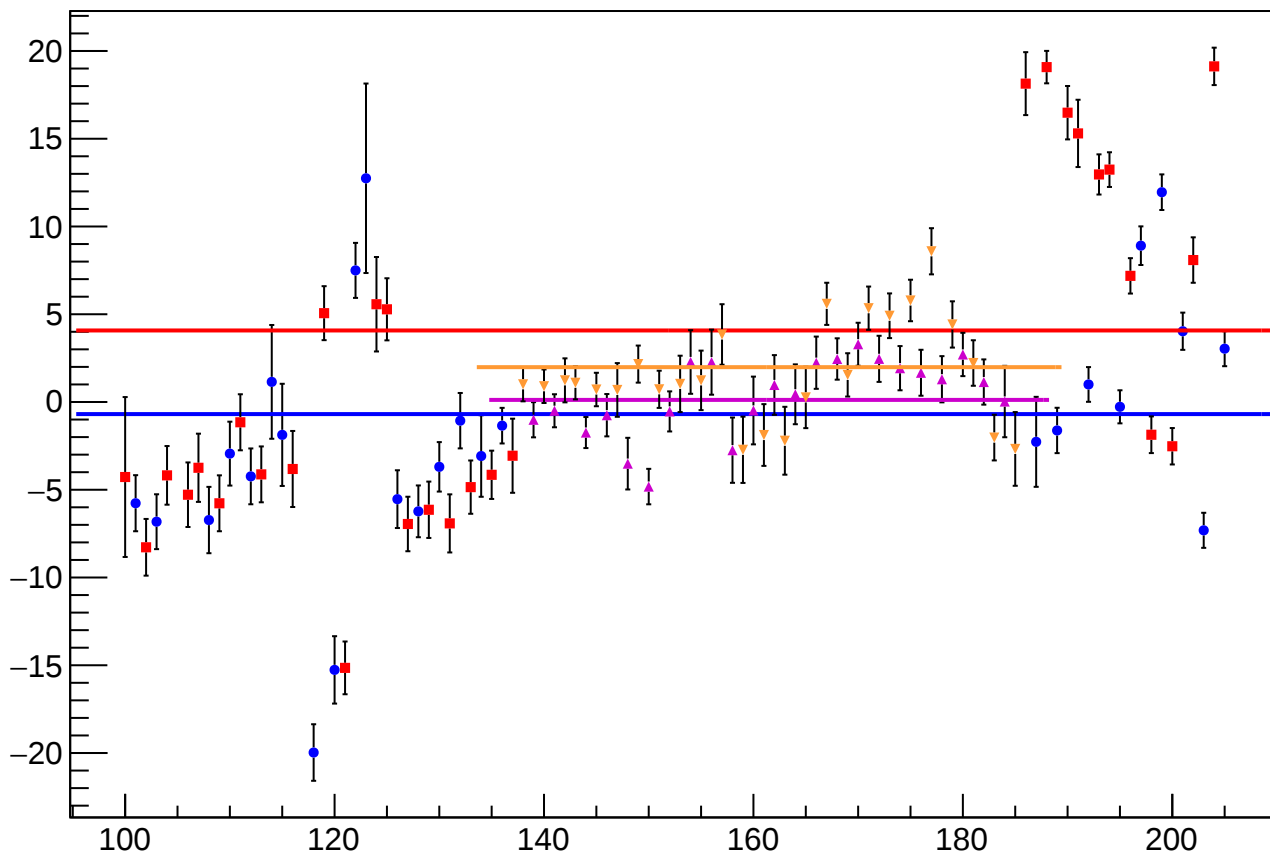
Right: 9420.011 ± 1.288 $\chi^2/\text{NDF}: 659840.8/55$

In: 9804.813 ± 1.272 $\chi^2/\text{NDF}: 738614.3/48$

Out: 9705.153 ± 1.213 $\chi^2/\text{NDF}: 745457.8/54$

All: 9752.645 ± 0.878 $\chi^2/\text{NDF}: 1487287.5/100$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.271 χ^2/NDF : 619.0/25

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

Right Out: 4.076 ± 0.261 χ^2/NDF : 1462.2/29

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

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

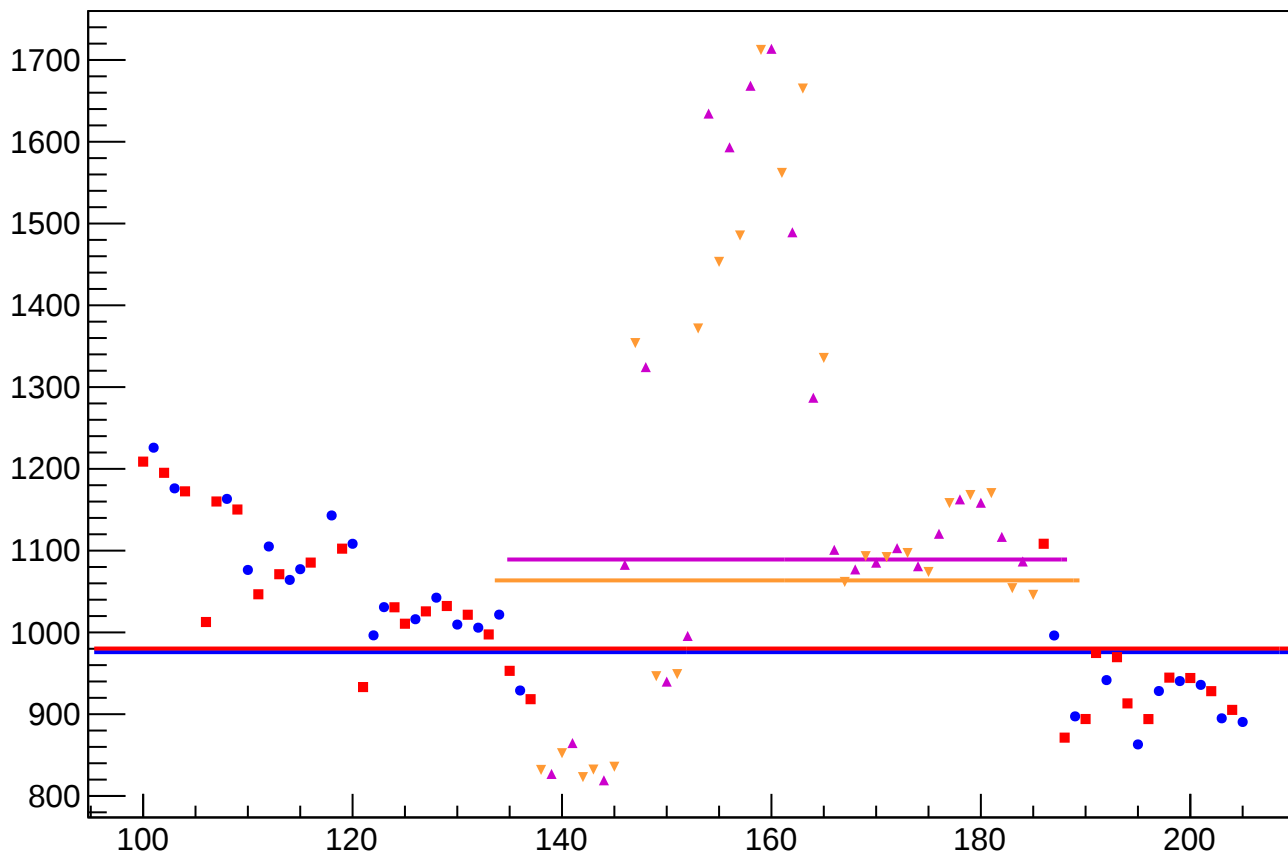
Right: 1.788 ± 0.188 χ^2/NDF : 2241.5/55

In: -0.281 ± 0.191 χ^2/NDF : 691.1/48

Out: 3.006 ± 0.182 χ^2/NDF : 1596.3/54

All: 1.439 ± 0.132 χ^2/NDF : 2442.4/103

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 975.865 ± 0.192 χ^2/NDF : 243914.5/25

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

Right Out: 980.296 ± 0.184 χ^2/NDF : 232158.9/29

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

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

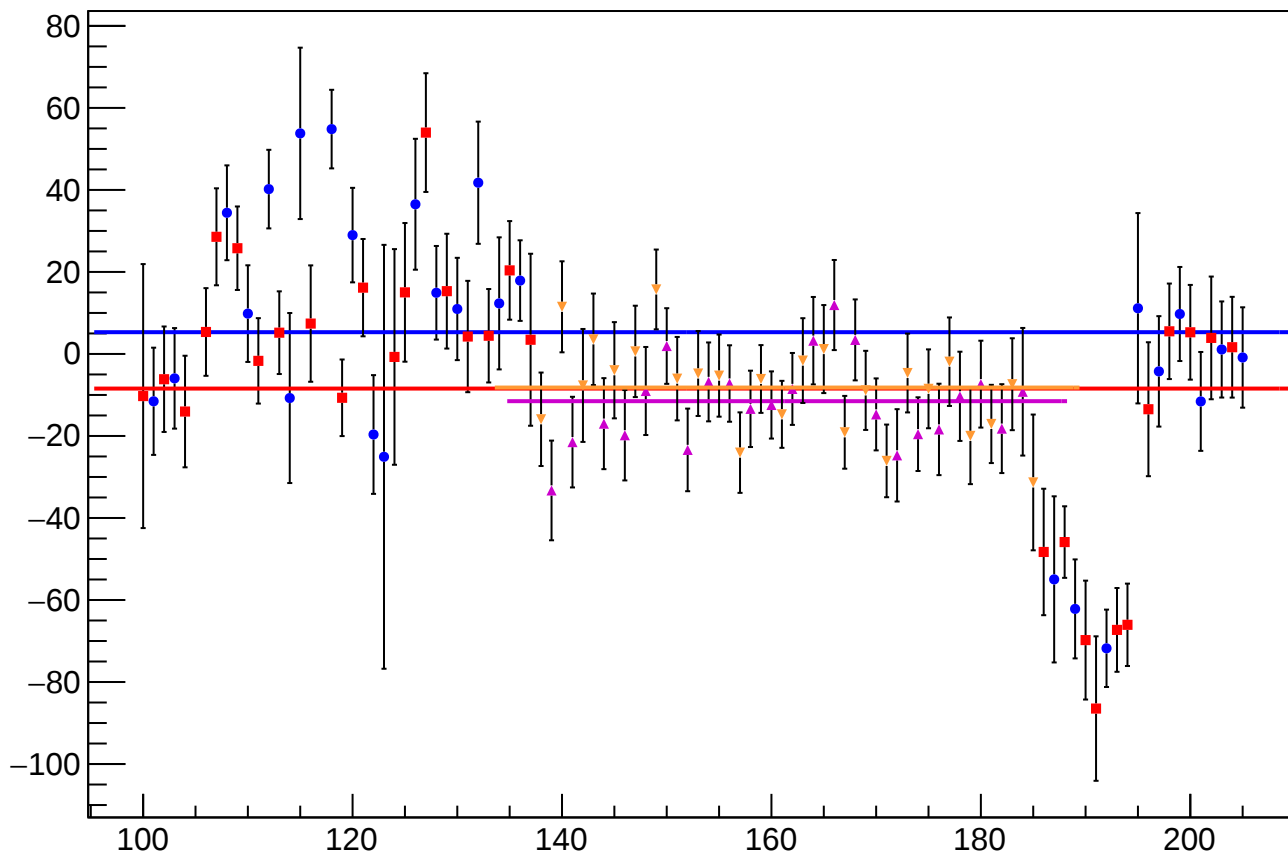
Right: 978.168 ± 0.133 χ^2/NDF : 476350.4/55

In: 1033.078 ± 0.135 χ^2/NDF : 1850381.2/48

Out: 1022.919 ± 0.129 χ^2/NDF : 1953925.8/54

All: 1027.762 ± 0.093 χ^2/NDF : 3807269.6/10

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 5.309 $\pm$ 2.505 χ^2/NDF : 184.9/25

Left Out: -8.195 $\pm$ 2.049 χ^2/NDF : 26.2/24

Right Out: -8.441 $\pm$ 2.281 χ^2/NDF : 195.5/29

Left In: -11.515 $\pm$ 2.122 χ^2/NDF : 21.0/22

Left: -9.796 $\pm$ 1.474 χ^2/NDF : 48.5/47

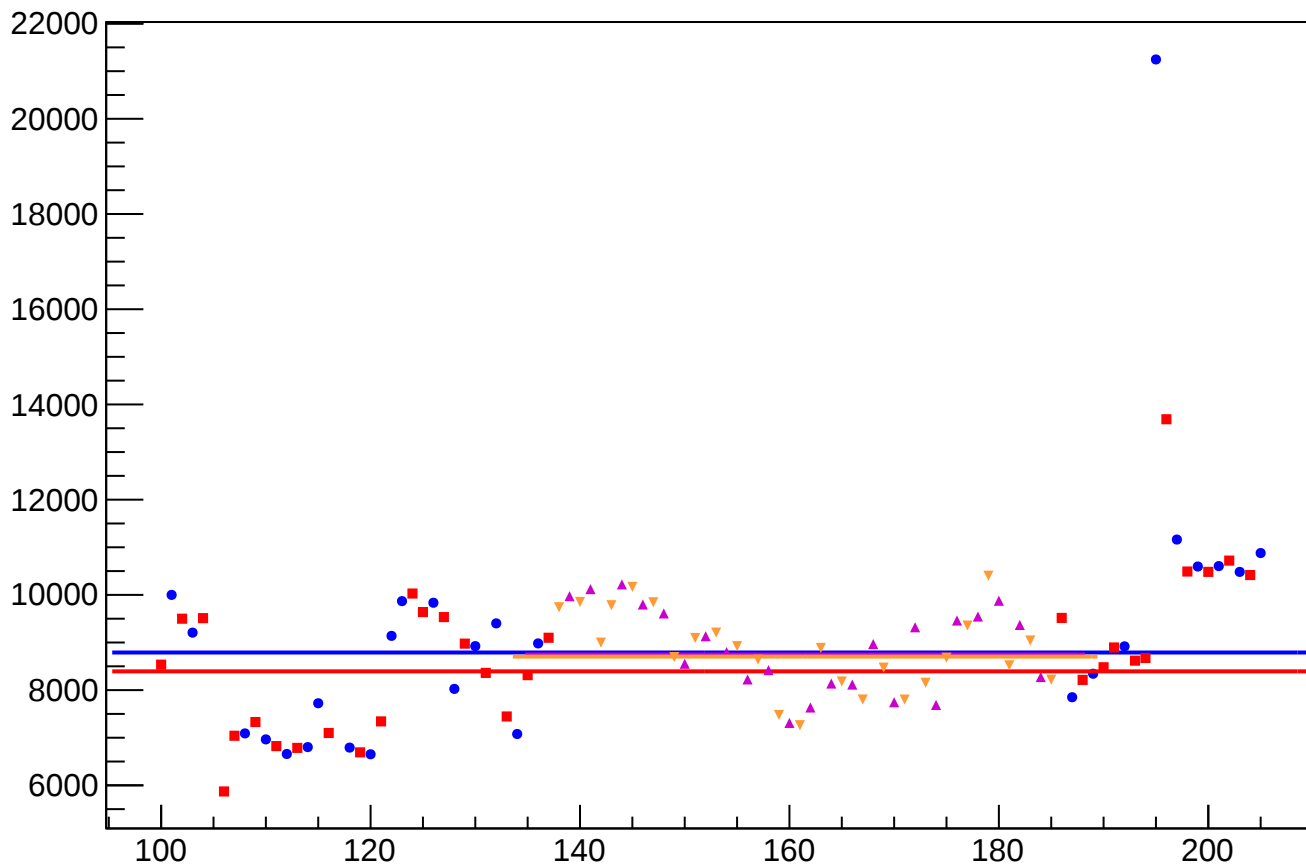
Right: -2.209 $\pm$ 1.687 χ^2/NDF : 396.9/55

In: -4.486 $\pm$ 1.619 χ^2/NDF : 232.3/48

Out: -8.305 $\pm$ 1.524 χ^2/NDF : 221.7/54

All: -6.511 $\pm$ 1.110 χ^2/NDF : 456.9/103

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8789.833+/-1.771 χ^2/NDF : 1275948.8/25

Left Out: 8704.193+/-1.449 χ^2/NDF : 332364.3/24

Right Out: 8393.815+/-1.613 χ^2/NDF : 892154.7/29

Left In: 8747.415+/-1.501 χ^2/NDF : 347110.4/22

Left: 8725.041+/-1.042 χ^2/NDF : 679904.0/47

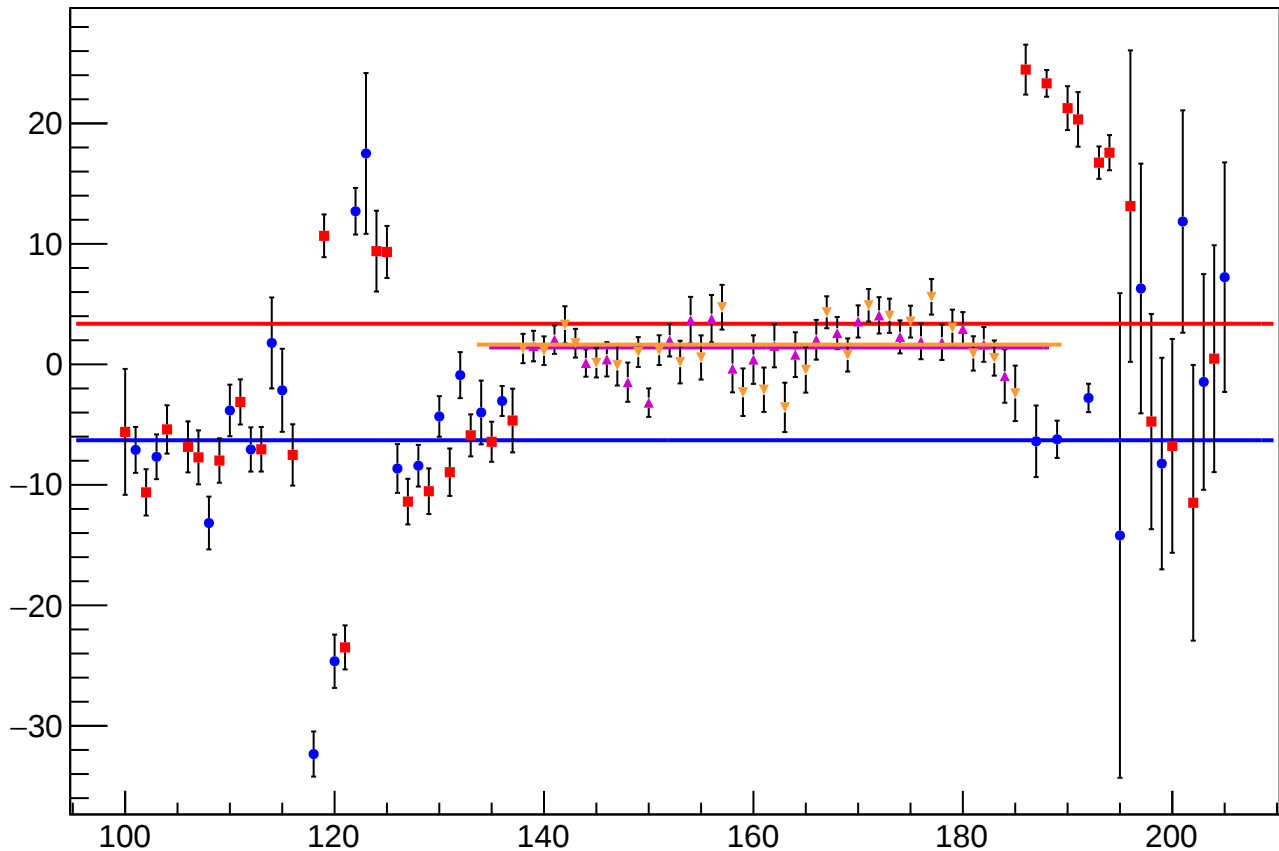
Right: 8573.308+/-1.193 χ^2/NDF : 2195430.0/55

In: 8765.139+/-1.145 χ^2/NDF : 1623393.0/48

Out: 8565.605+/-1.078 χ^2/NDF : 1245017.0/54

All: 8659.334+/-0.785 χ^2/NDF : 2884511.9/100

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.299 $\pm$ 0.425 χ^2/NDF : 426.2/25

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

Right Out: 3.371 $\pm$ 0.373 χ^2/NDF : 1470.4/29

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

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

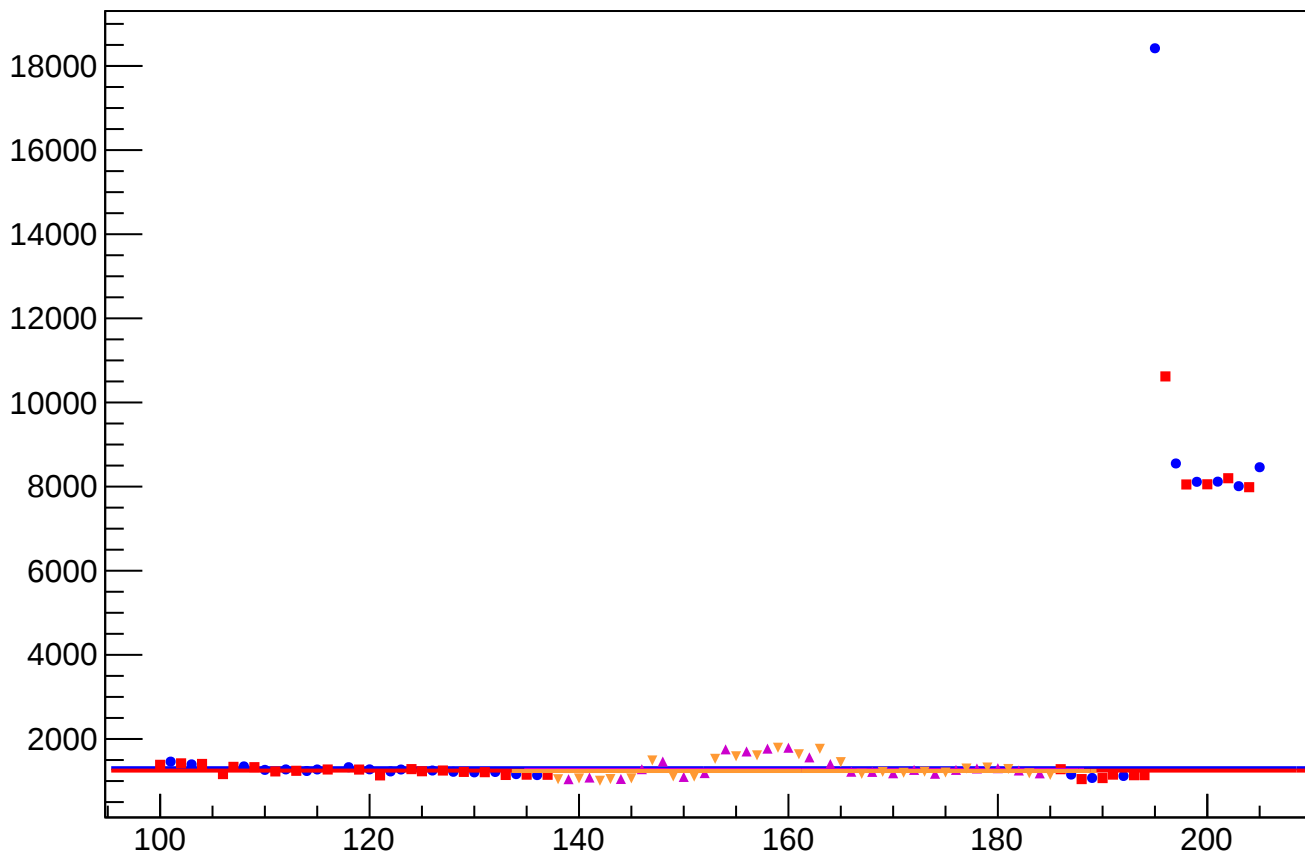
Right: -0.831 $\pm$ 0.280 χ^2/NDF : 2188.8/55

In: -1.257 $\pm$ 0.250 χ^2/NDF :675.1/48

Out: 2.302 $\pm$ 0.231 χ^2/NDF :1535.0/54

All: 0.665 $\pm$ 0.170 χ^2/NDF : 2319.5/103

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1305.540+/-0.301 χ^2/NDF : 7152424.7/25

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

Right Out: 1248.519+/-0.264 χ^2/NDF : 5331720.7/29

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

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

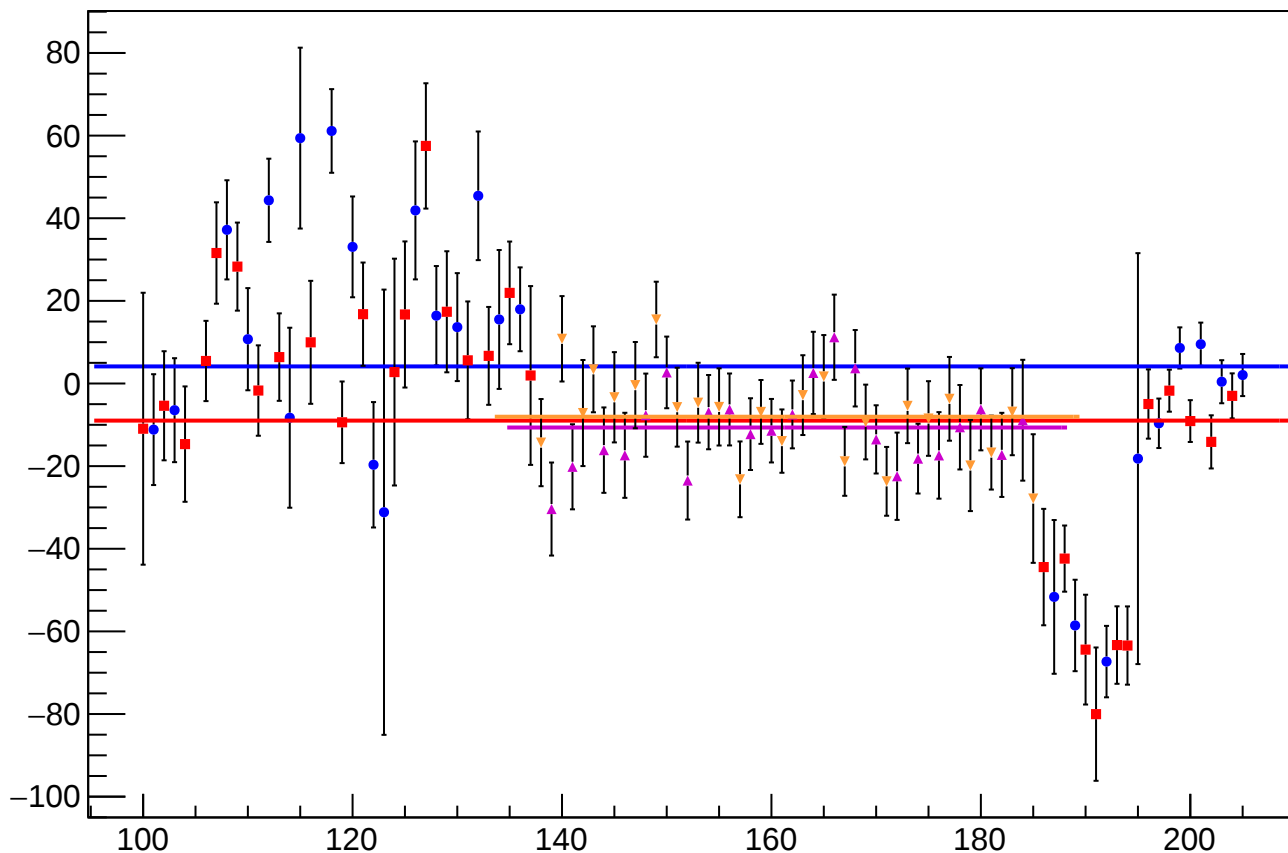
Right: 1273.301+/-0.198 χ^2/NDF : 12504469.1/55

In: 1279.445+/-0.177 χ^2/NDF : 8009083.2/48

Out: 1242.295+/-0.163 χ^2/NDF : 6297796.2/54

All: 1259.381+/-0.120 χ^2/NDF : 14330734.5/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 4.135 ± 1.828 χ^2/NDF : 206.1/25

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

Right Out: -8.981 ± 1.788 χ^2/NDF : 199.3/29

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

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

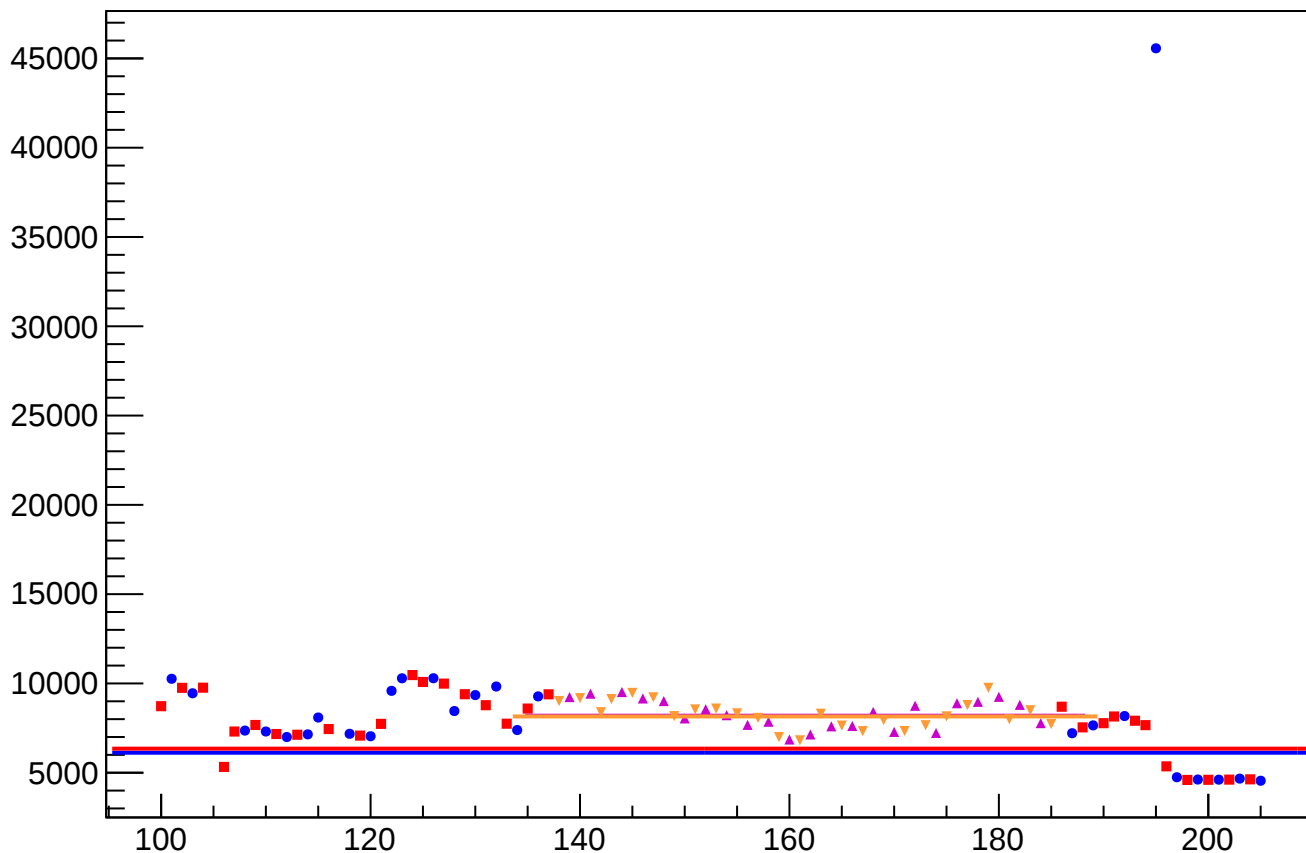
Right: -2.570 ± 1.278 χ^2/NDF : 431.7/55

In: -2.642 ± 1.346 χ^2/NDF : 257.5/48

Out: -8.545 ± 1.308 χ^2/NDF : 225.7/54

All: -5.677 ± 0.938 χ^2/NDF : 493.1/103

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6120.719+/-1.293 χ^2/NDF : 3409920.6/25

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

Right Out: 6348.497+/-1.264 χ^2/NDF : 2013124.5/29

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

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

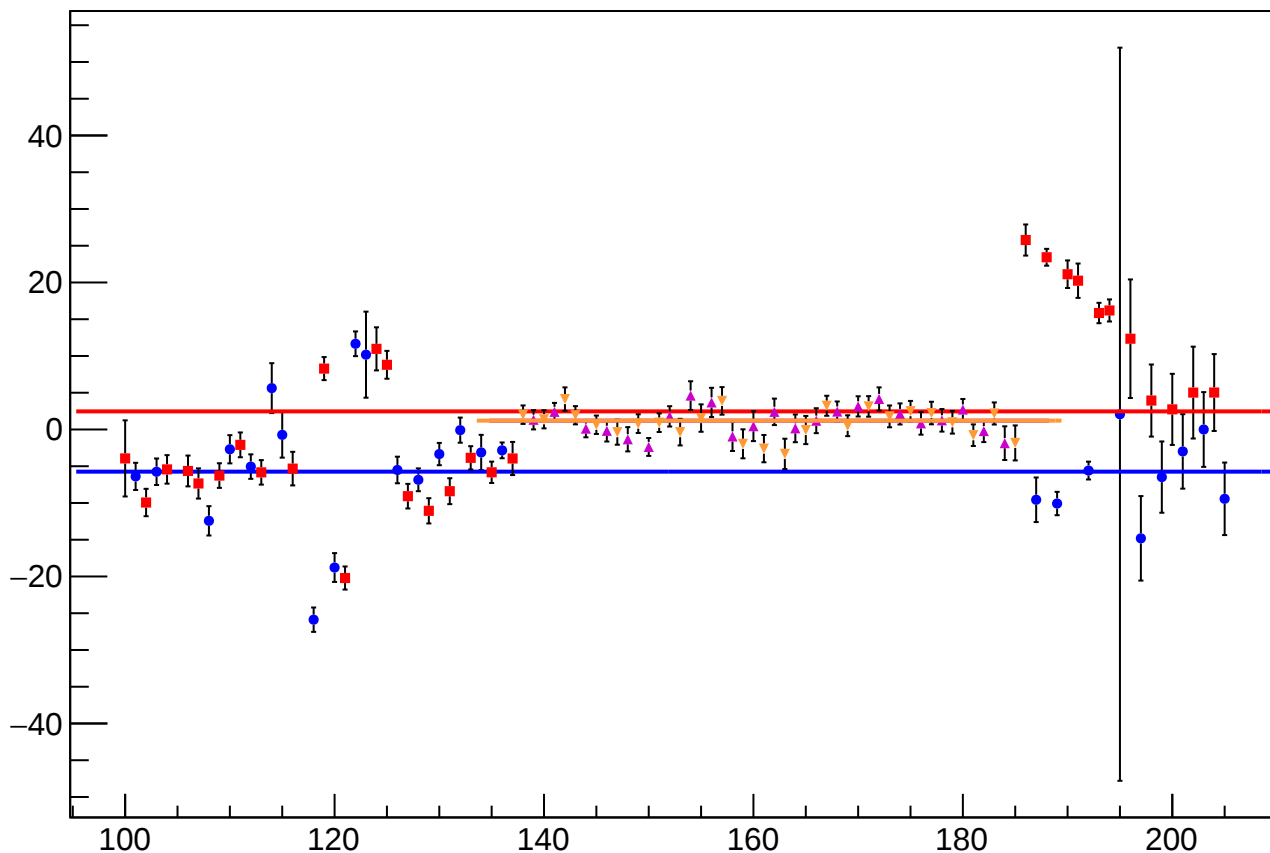
Right: 6237.160+/-0.904 χ^2/NDF : 5438918.1/55

In: 7070.681+/-0.951 χ^2/NDF : 4926799.1/48

Out: 7186.529+/-0.925 χ^2/NDF : 3280657.4/54

All: 7130.254+/-0.663 χ^2/NDF : 8215080.9/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.738 $\pm$ 0.389 χ^2/NDF : 370.5/25

Left Out: 1.203 $\pm$ 0.302 χ^2/NDF : 29.9/24

Right Out: 2.462 $\pm$ 0.350 χ^2/NDF : 1408.5/29

Left In: 1.198 $\pm$ 0.318 χ^2/NDF : 31.2/22

Left: 1.201 $\pm$ 0.219 χ^2/NDF : 61.1/47

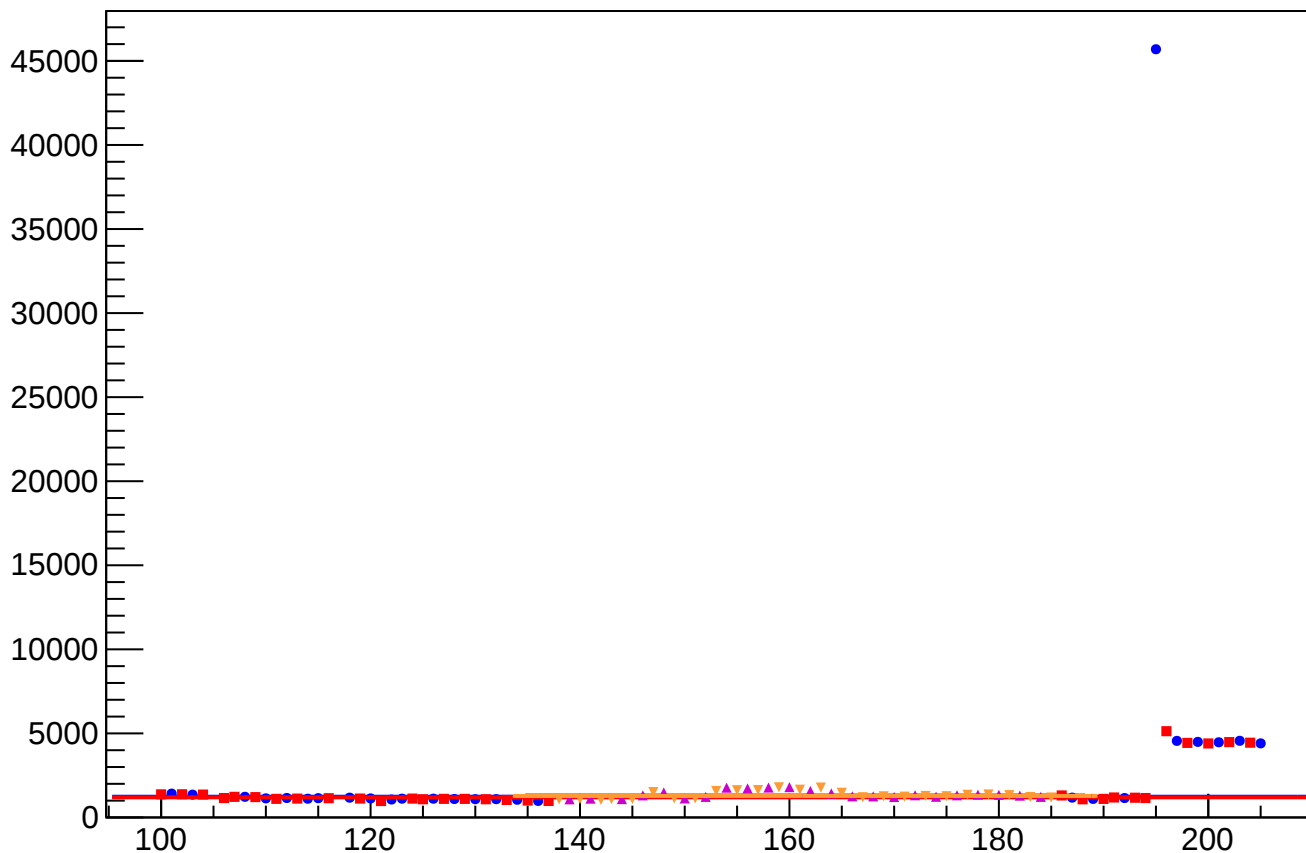
Right: -1.198 $\pm$ 0.260 χ^2/NDF : 2024.6/55

In: -1.579 $\pm$ 0.246 χ^2/NDF : 591.9/48

Out: 1.742 $\pm$ 0.229 χ^2/NDF : 1445.9/54

All: 0.205 $\pm$ 0.168 χ^2/NDF : 2135.4/103

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1231.214 $\pm$ 0.275 χ^2/NDF : 5931036.6/25

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

Right Out: 1196.170 $\pm$ 0.247 χ^2/NDF : 3775374.1/29

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

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

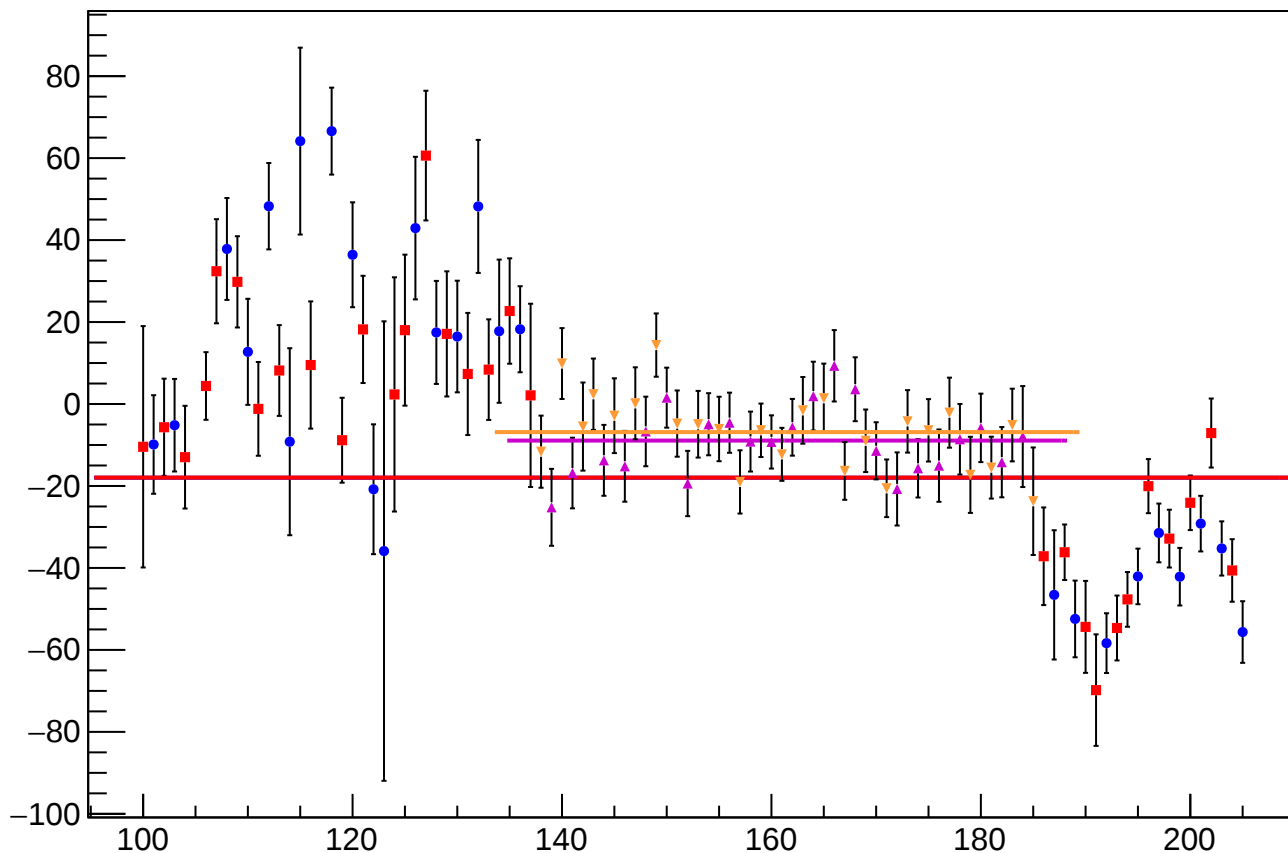
Right: 1211.810 $\pm$ 0.184 χ^2/NDF : 9715381.6/55

In: 1275.782 $\pm$ 0.174 χ^2/NDF : 6735192.5/48

Out: 1242.920 $\pm$ 0.162 χ^2/NDF : 4716053.3/54

All: 1258.132 $\pm$ 0.119 χ^2/NDF : 11470359.3/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -17.984 ± 2.006 χ^2/NDF : 331.4/25

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

Right Out: -17.961 ± 1.864 χ^2/NDF : 206.7/29

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

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

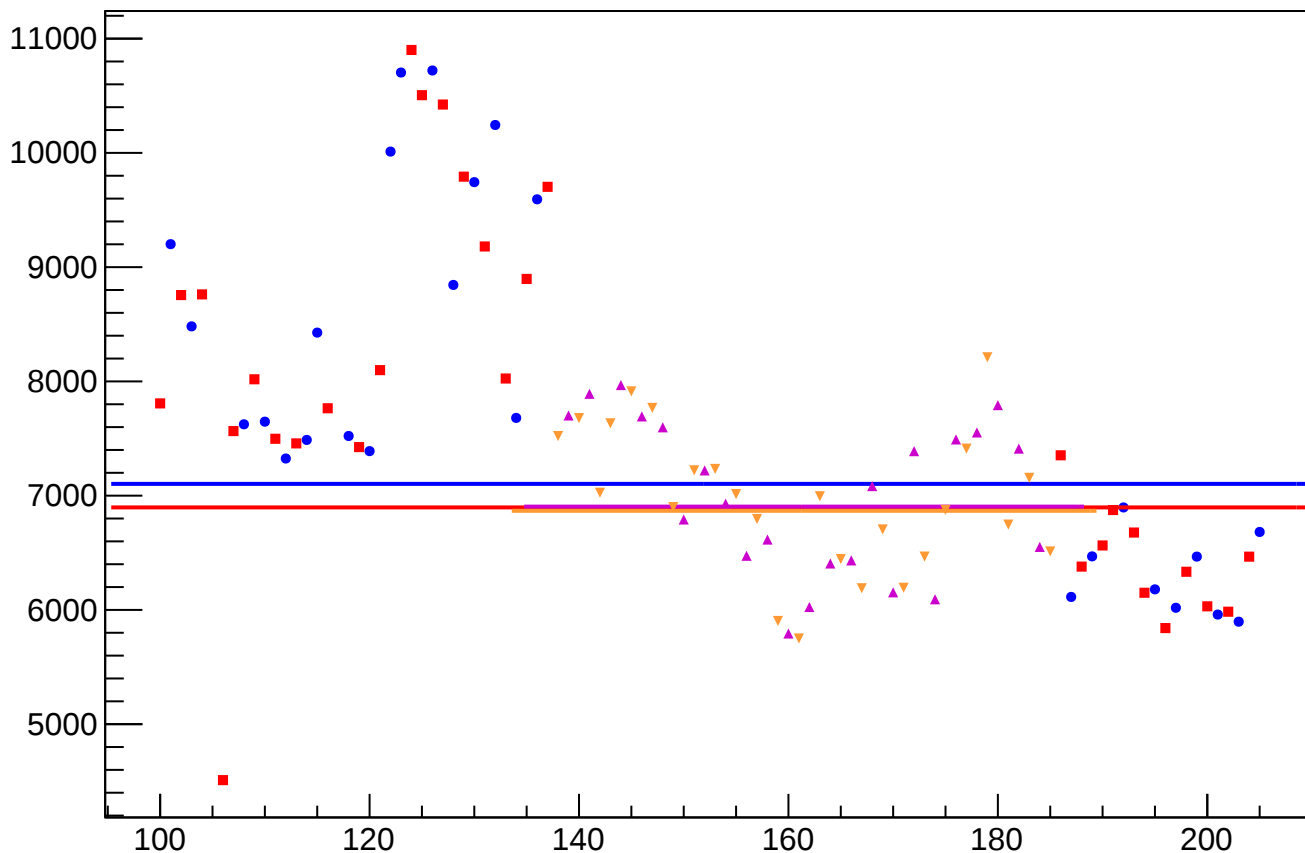
Right: -17.972 ± 1.365 χ^2/NDF : 538.0/55

In: -12.643 ± 1.285 χ^2/NDF : 365.2/48

Out: -11.619 ± 1.221 χ^2/NDF : 255.6/54

All: -12.105 ± 0.885 χ^2/NDF : 621.1/103

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7103.177+/-1.418 χ^2/NDF : 823068.9/25

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

Right Out: 6897.160+/-1.318 χ^2/NDF : 929114.7/29

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

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

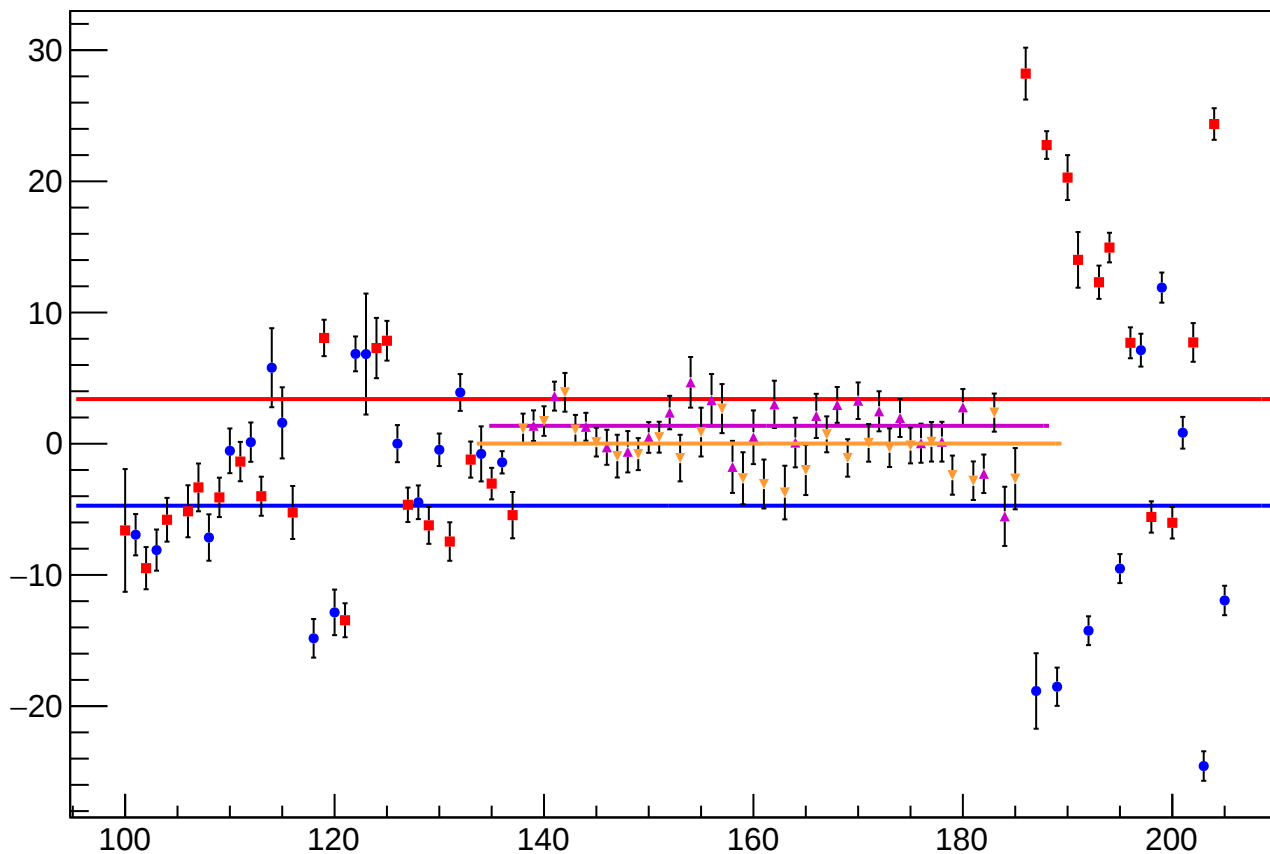
Right: 6992.612+/-0.965 χ^2/NDF : 1763505.2/55

In: 6985.854+/-0.909 χ^2/NDF :1160589.4/48

Out: 6880.151+/-0.863 χ^2/NDF :1236301.5/54

All: 6930.278+/-0.626 χ^2/NDF : 2404001.7/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.723 ± 0.274 χ^2/NDF : 1154.1/25

Left Out: 0.014 ± 0.290 χ^2/NDF : 35.0/24

Right Out: 3.404 ± 0.266 χ^2/NDF : 1820.3/29

Left In: 1.365 ± 0.306 χ^2/NDF : 38.5/22

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

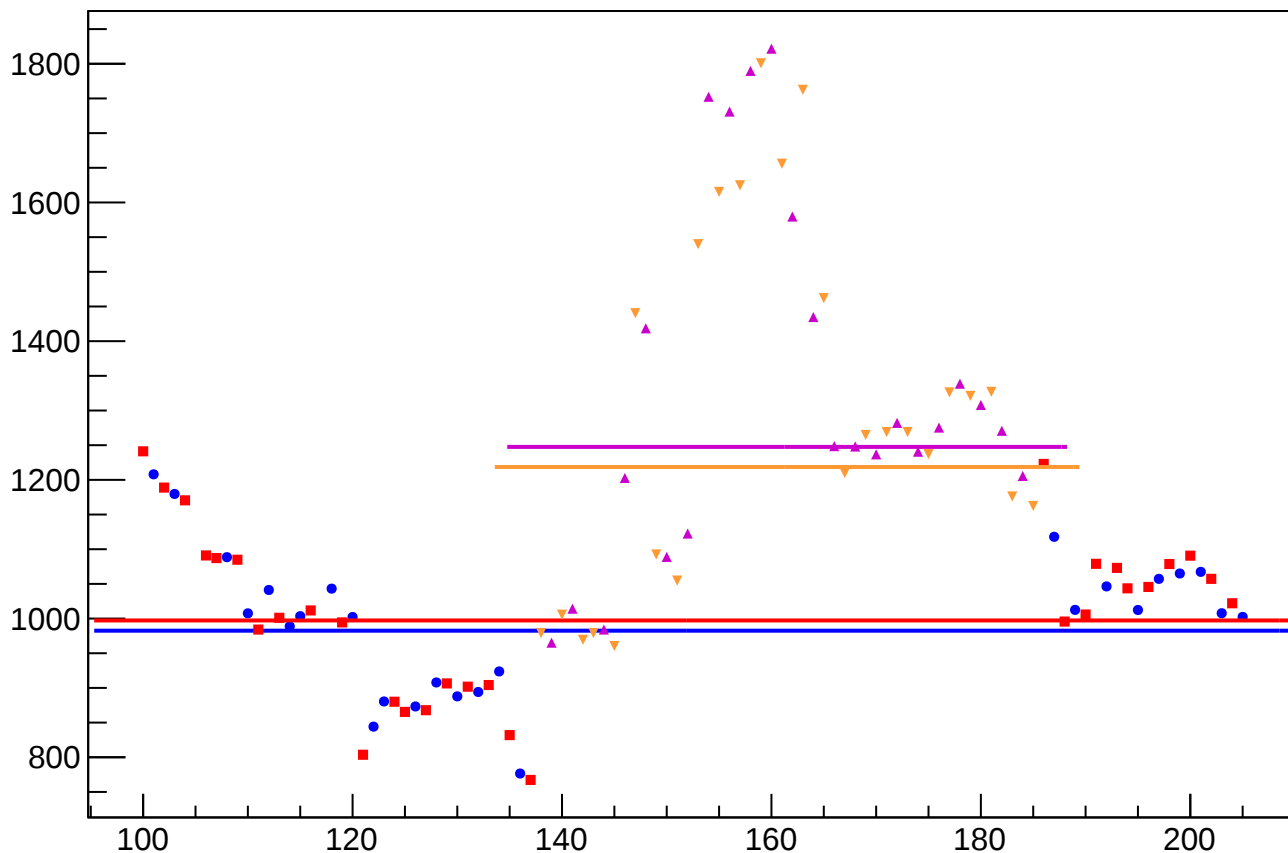
Right: -0.541 ± 0.191 χ^2/NDF : 3428.4/55

In: -2.013 ± 0.204 χ^2/NDF : 1413.0/48

Out: 1.856 ± 0.196 χ^2/NDF : 1929.6/54

All: -0.002 ± 0.141 χ^2/NDF : 3529.9/103

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 982.521 $\pm$ 0.193 χ^2/NDF : 310122.0/25

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

Right Out: 997.278 $\pm$ 0.188 χ^2/NDF : 322773.8/29

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

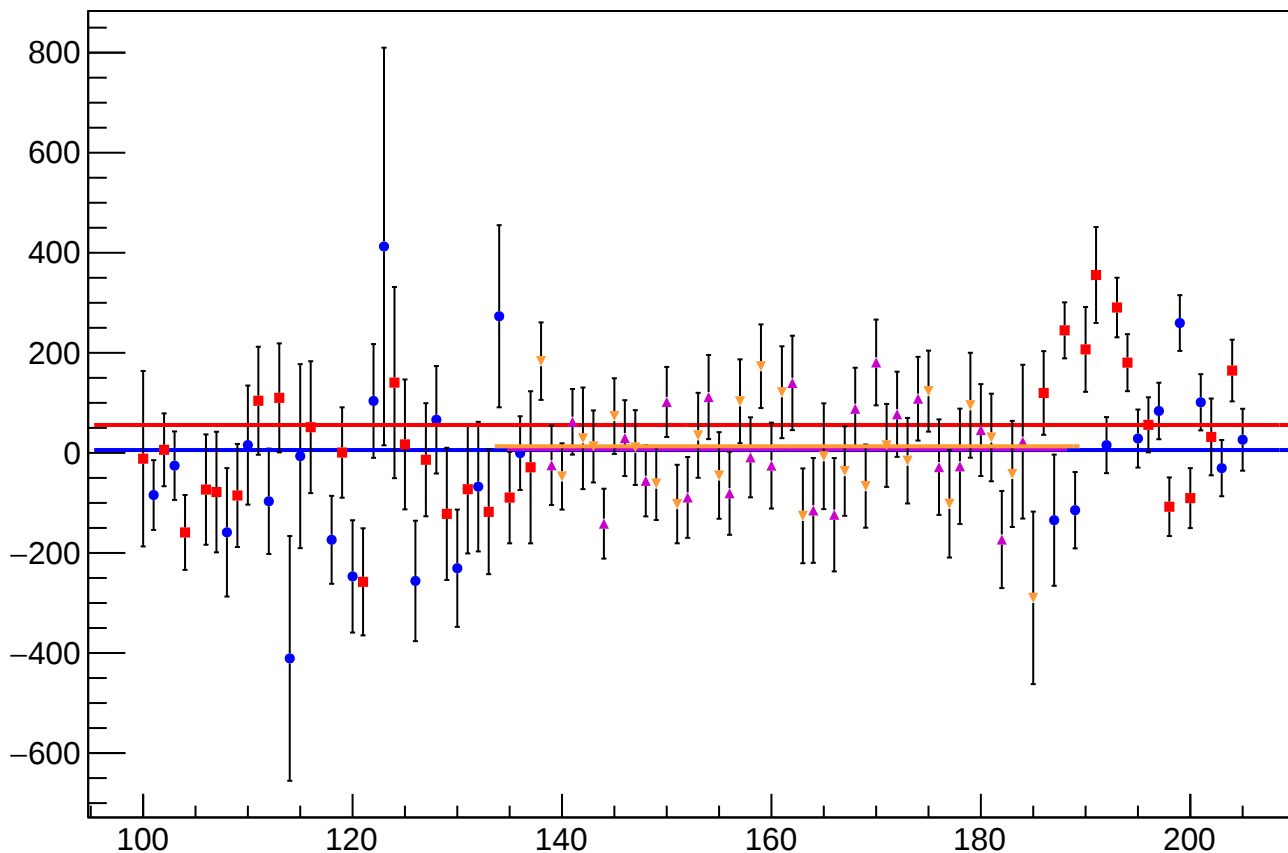
Right: 990.114 $\pm$ 0.135 χ^2/NDF : 635889.2/55

In: 1100.479 $\pm$ 0.144 χ^2/NDF :2218681.6/48

Out: 1098.308 $\pm$ 0.139 χ^2/NDF :2221617.9/54

All: 1099.350 $\pm$ 0.100 χ^2/NDF : 4440417.4/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 5.723 $\pm$ 16.100 χ^2/NDF : 59.9/25

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF : 26.8/24

Right Out: 55.749 $\pm$ 15.384 χ^2/NDF : 93.2/29

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

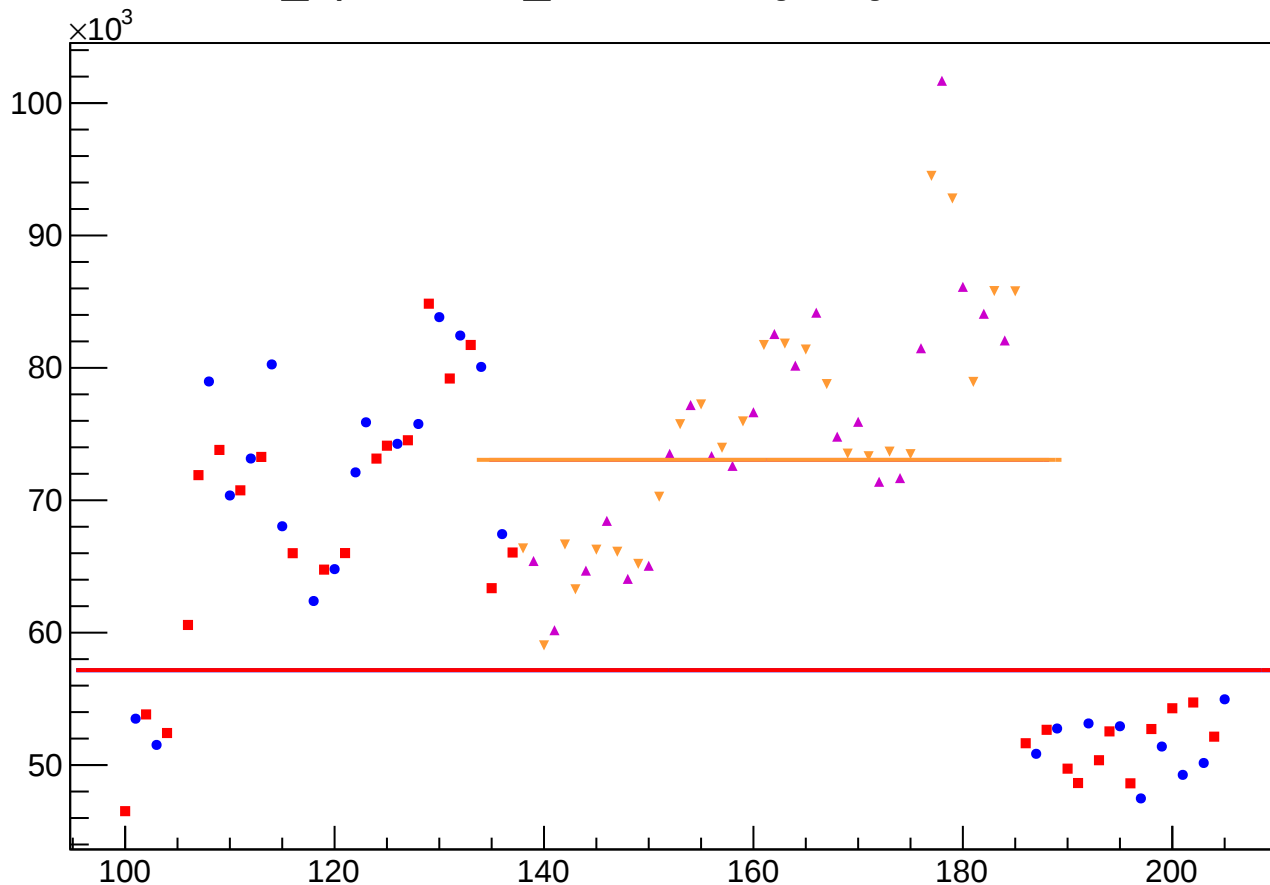
Right: 31.874 $\pm$ 11.123 χ^2/NDF : 158.1/55

In: 6.582 $\pm$ 11.901 χ^2/NDF : 88.0/48

Out: 36.776 $\pm$ 11.450 χ^2/NDF : 123.4/54

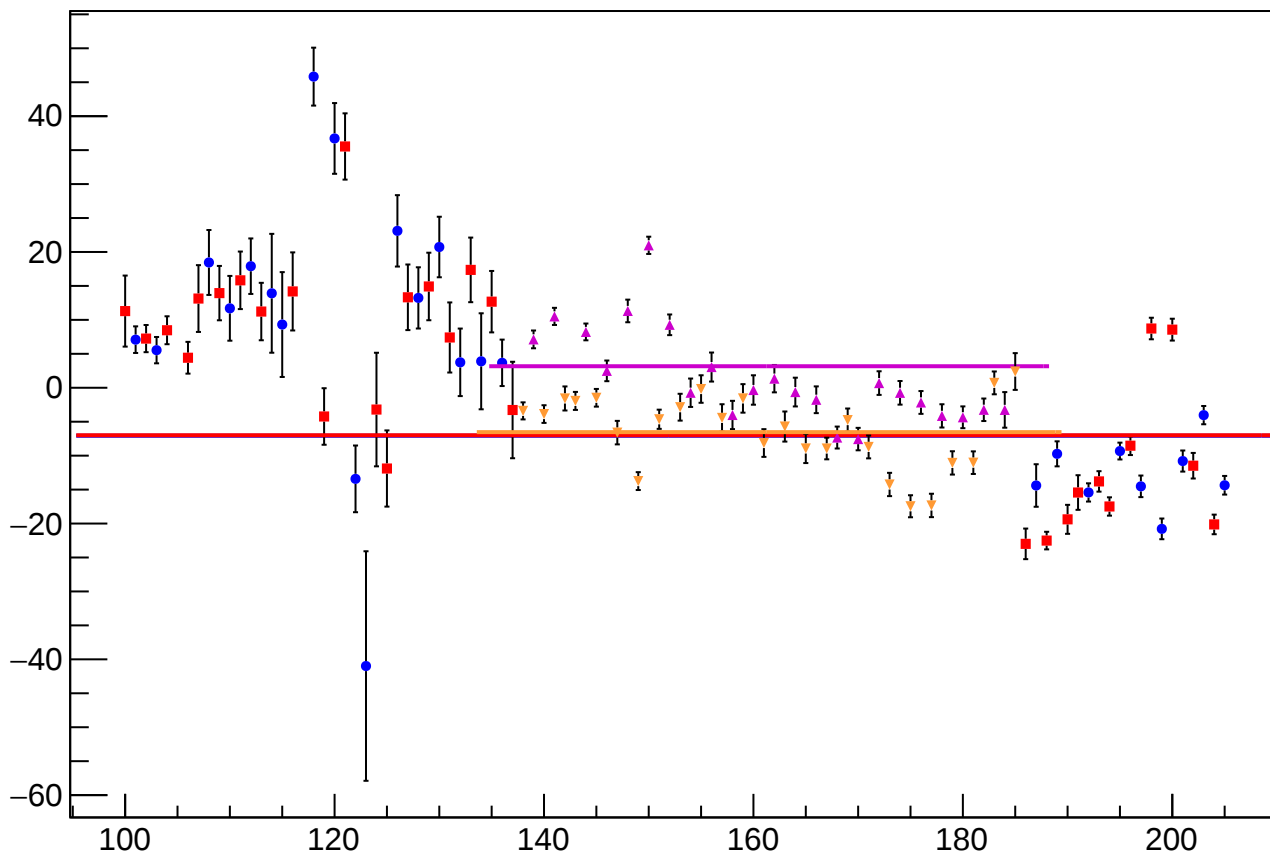
All: 22.262 $\pm$ 8.252 χ^2/NDF : 214.7/103

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 57158.560 $\pm$ 11.385	χ^2/NDF : 763939.8/25	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: 57166.343 $\pm$ 7.865	χ^2/NDF : 1487417.2/55
Right Out: 57173.447 $\pm$ 10.878	χ^2/NDF : 723476.6/29	In: 64364.477 $\pm$ 8.416	χ^2/NDF : 2110727.3/48
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 64255.975 $\pm$ 8.097	χ^2/NDF : 2147084.5/54
		All: 64308.131 $\pm$ 5.835	χ^2/NDF : 4257898.2/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -7.066 ± 0.445 χ^2/NDF : 716.6/25

Left Out: -6.537 ± 0.332 χ^2/NDF : 252.7/24

Right Out: -6.998 ± 0.424 χ^2/NDF : 1016.6/29

Left In: 3.171 ± 0.346 χ^2/NDF : 487.3/22

Left: -1.892 ± 0.240 χ^2/NDF : 1149.5/47

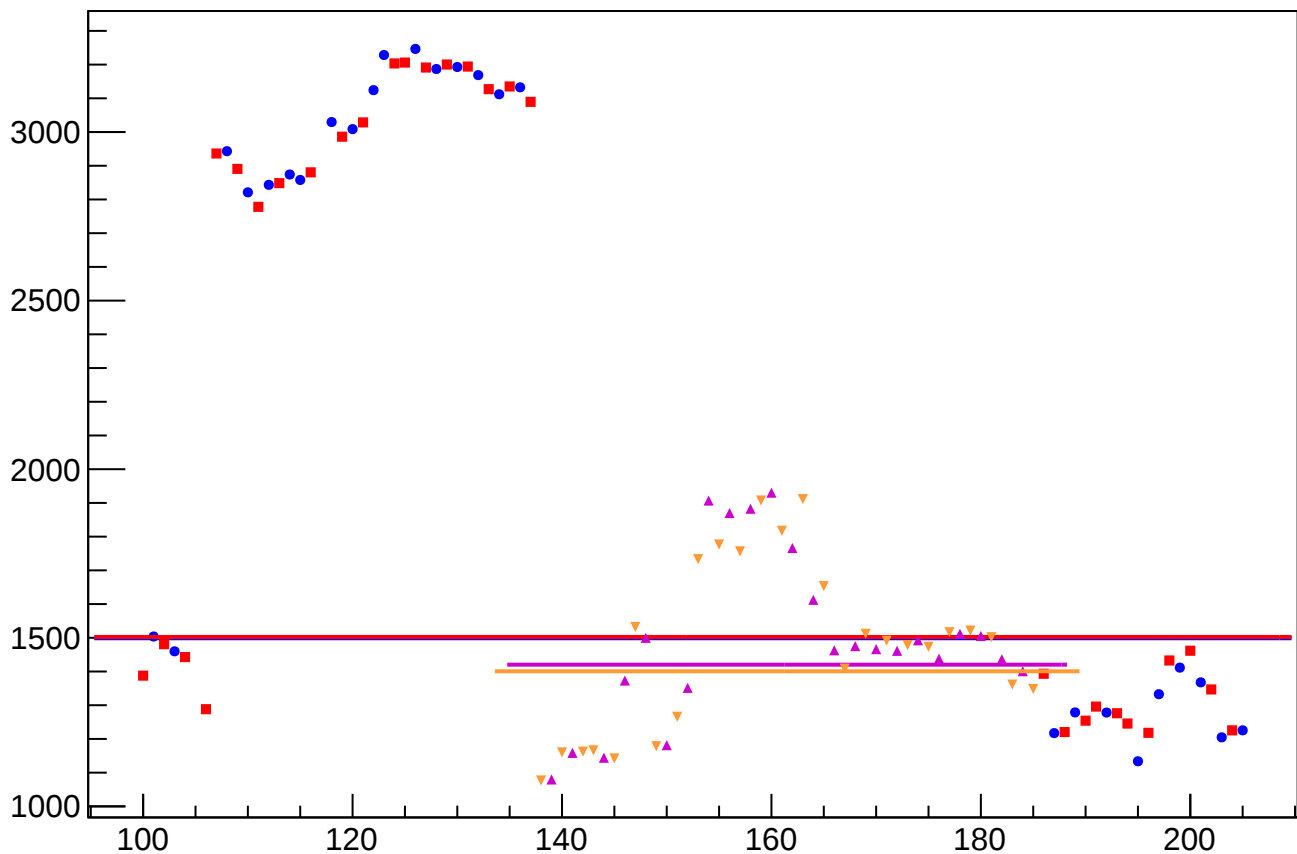
Right: -7.030 ± 0.307 χ^2/NDF : 1733.2/55

In: -0.691 ± 0.273 χ^2/NDF : 1533.2/48

Out: -6.712 ± 0.261 χ^2/NDF : 1270.1/54

All: -3.837 ± 0.189 χ^2/NDF : 3056.7/103

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1498.645 $\pm$ 0.315 χ^2 /NDF: 3396094.6/25

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF: 1037921.6/24

Right Out: 1502.429 $\pm$ 0.300 χ^2 /NDF: 3365944.7/29

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF: 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

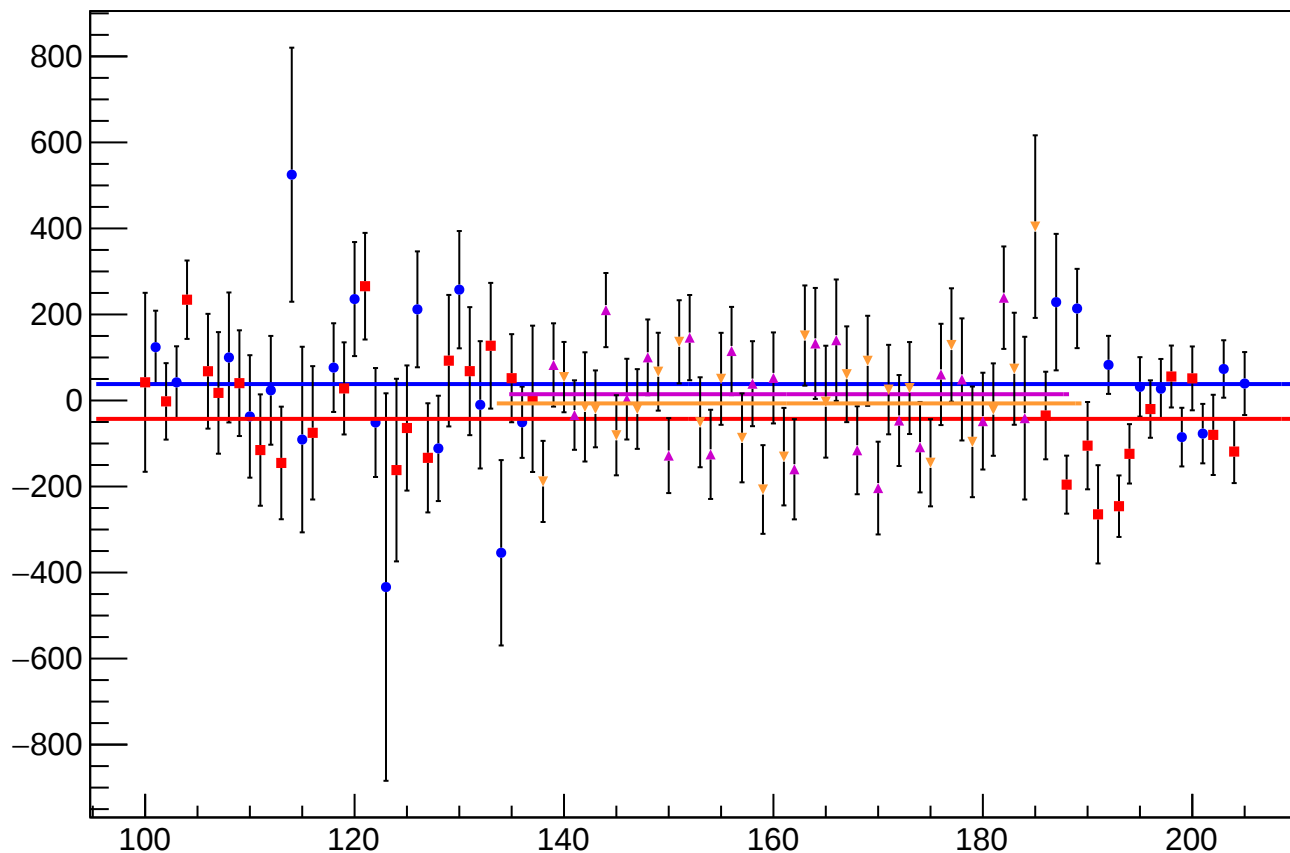
Right: 1500.628 $\pm$ 0.217 χ^2 /NDF: 6762115.0/55

In: 1449.846 $\pm$ 0.193 χ^2 /NDF: 4339877.3/48

Out: 1439.281 $\pm$ 0.185 χ^2 /NDF: 4475321.9/54

All: 1444.325 $\pm$ 0.134 χ^2 /NDF: 8816759.7/100

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 38.175 $\pm$ 19.218 χ^2/NDF : 30.7/25

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

Right Out: -42.755 $\pm$ 18.423 χ^2/NDF : 46.6/29

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

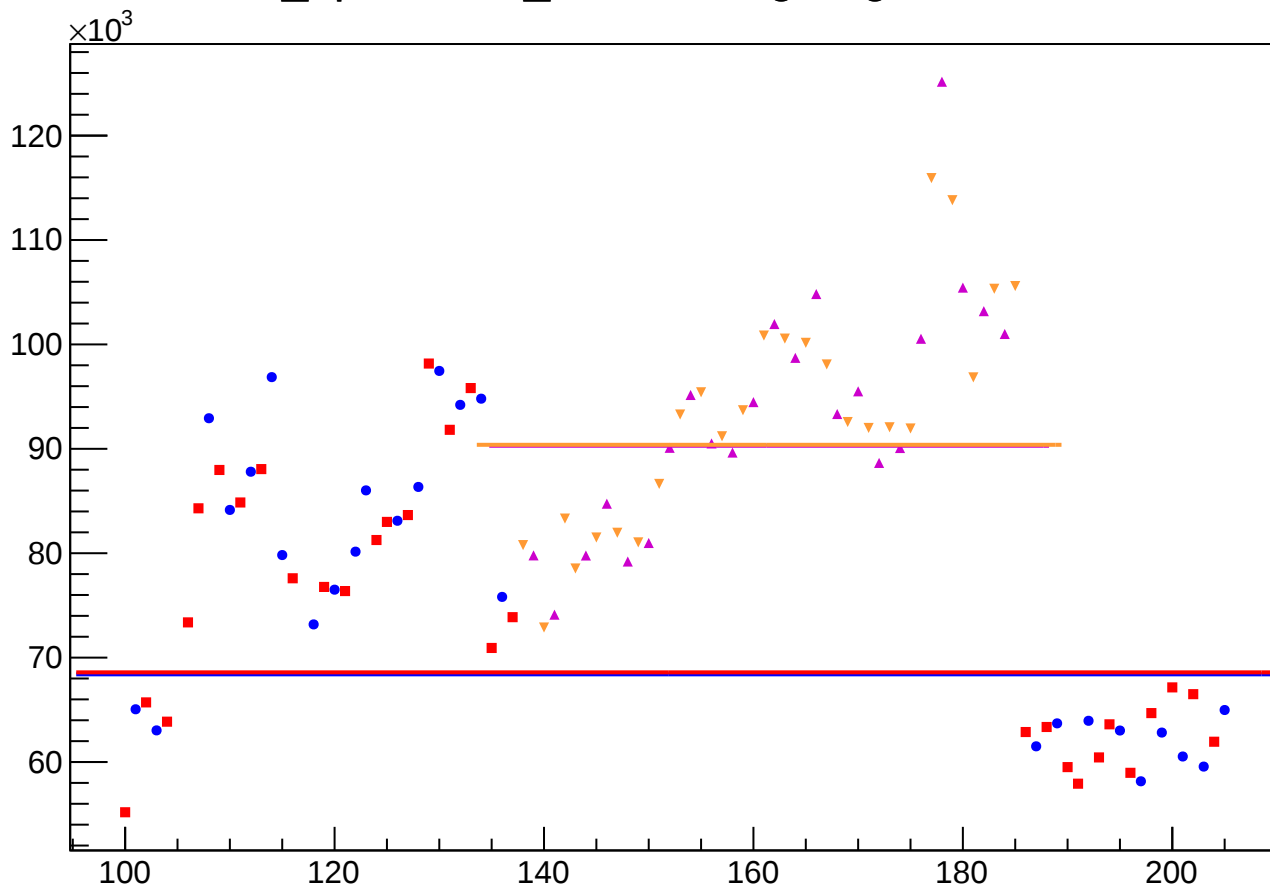
Right: -3.998 $\pm$ 13.299 χ^2/NDF : 86.5/55

In: 27.895 $\pm$ 14.429 χ^2/NDF : 61.2/48

Out: -27.291 $\pm$ 13.910 χ^2/NDF : 72.9/54

All: -0.710 $\pm$ 10.014 χ^2/NDF : 141.7/103

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 68399.050 $\pm$ 13.589 χ^2/NDF : 608764.6/25

Left Out: 90384.853 $\pm$ 15.000 χ^2/NDF : 461648.2/24

Right Out: 68589.783 $\pm$ 13.027 χ^2/NDF : 599699.9/29

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761 χ^2/NDF : 923003.7/47

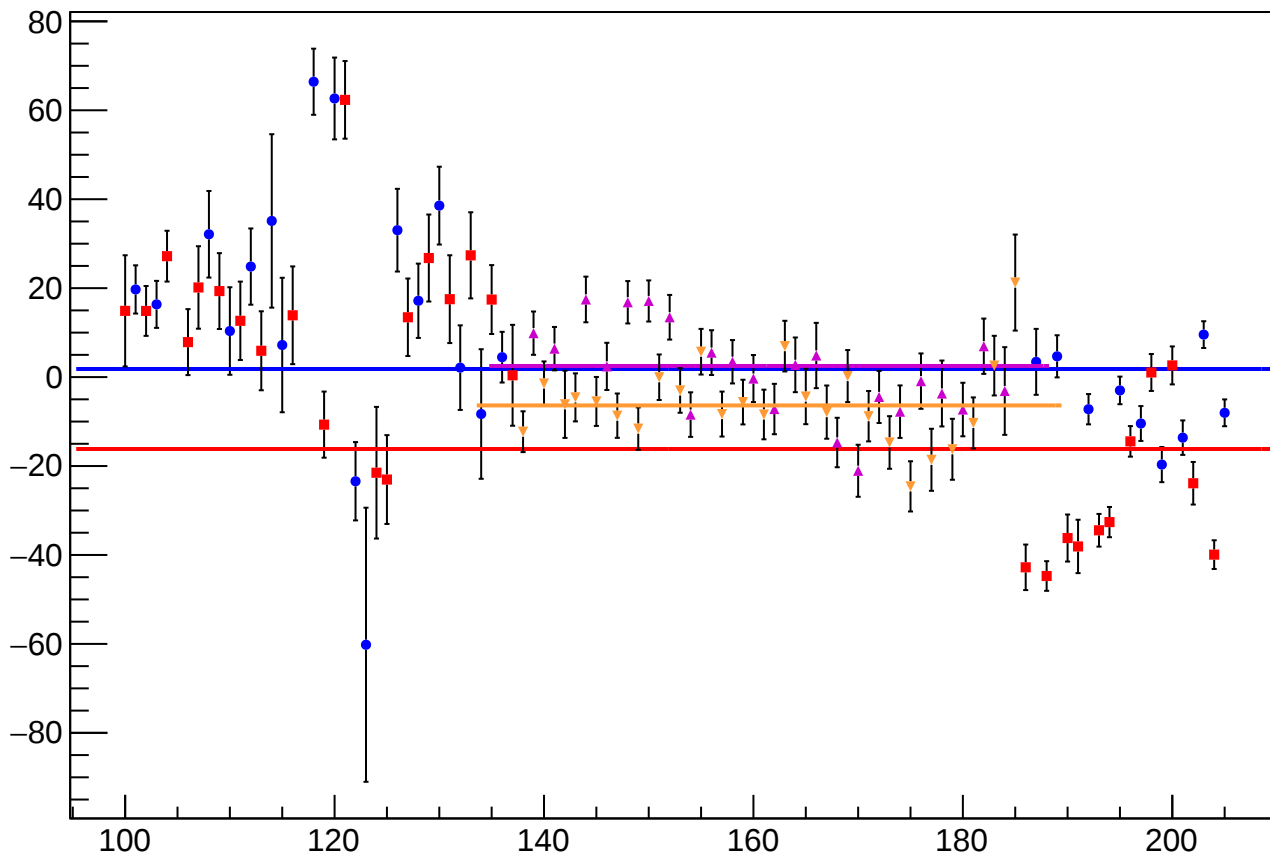
Right: 68498.442 $\pm$ 9.404 χ^2/NDF : 1208567.2/55

In: 77950.786 $\pm$ 10.203 χ^2/NDF : 2202582.9/48

Out: 77960.818 $\pm$ 9.836 χ^2/NDF : 2264835.2/54

All: 77955.986 $\pm$ 7.081 χ^2/NDF : 4467418.7/1

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.823 ± 1.049 χ^2/NDF : 286.0/25

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

Right Out: -16.167 ± 1.026 χ^2/NDF : 597.5/29

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

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

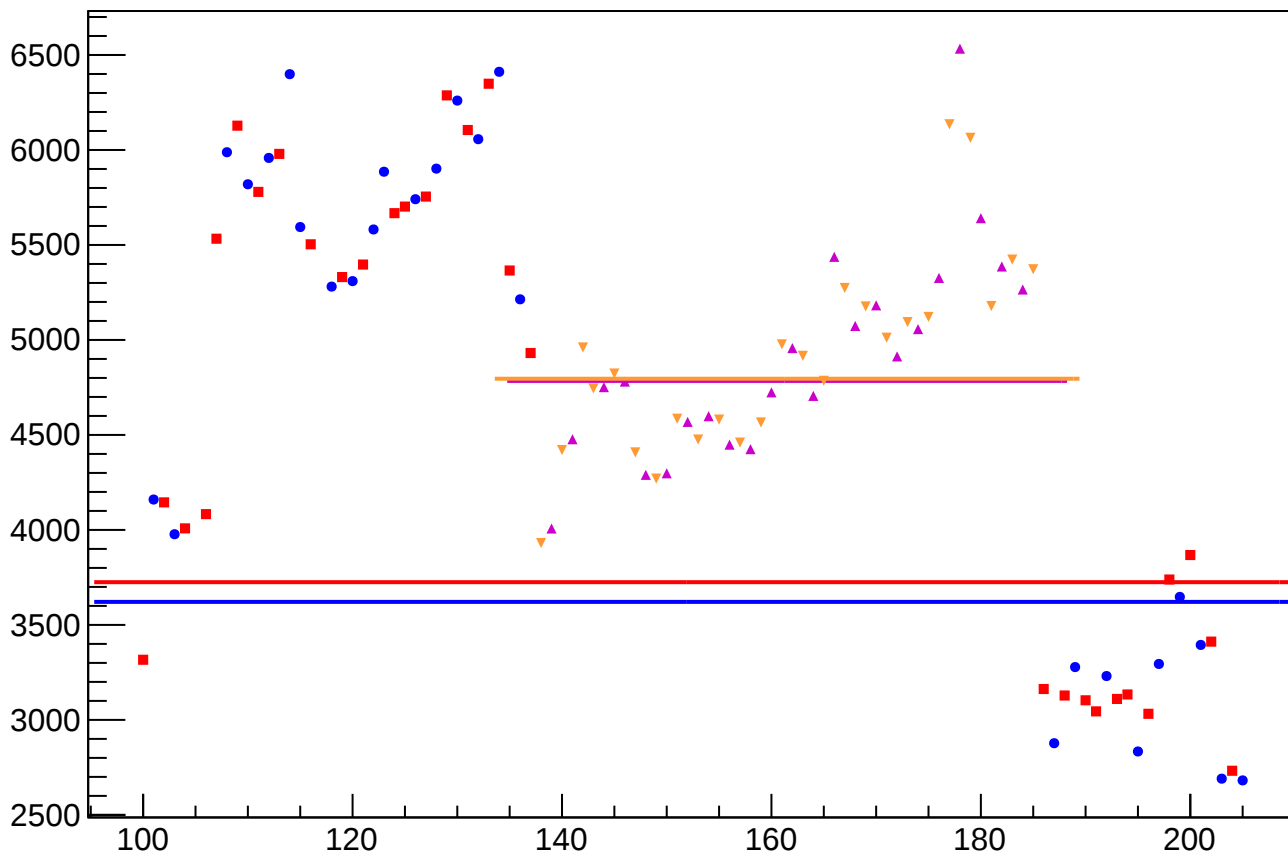
Right: -7.371 ± 0.733 χ^2/NDF : 1033.8/55

In: 2.129 ± 0.777 χ^2/NDF : 364.6/48

Out: -11.714 ± 0.758 χ^2/NDF : 684.4/54

All: -4.964 ± 0.542 χ^2/NDF : 1211.7/103

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3621.239 ± 0.742 $\chi^2/\text{NDF}: 2134028.6/25$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3724.894 ± 0.725 $\chi^2/\text{NDF}: 1987460.2/29$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

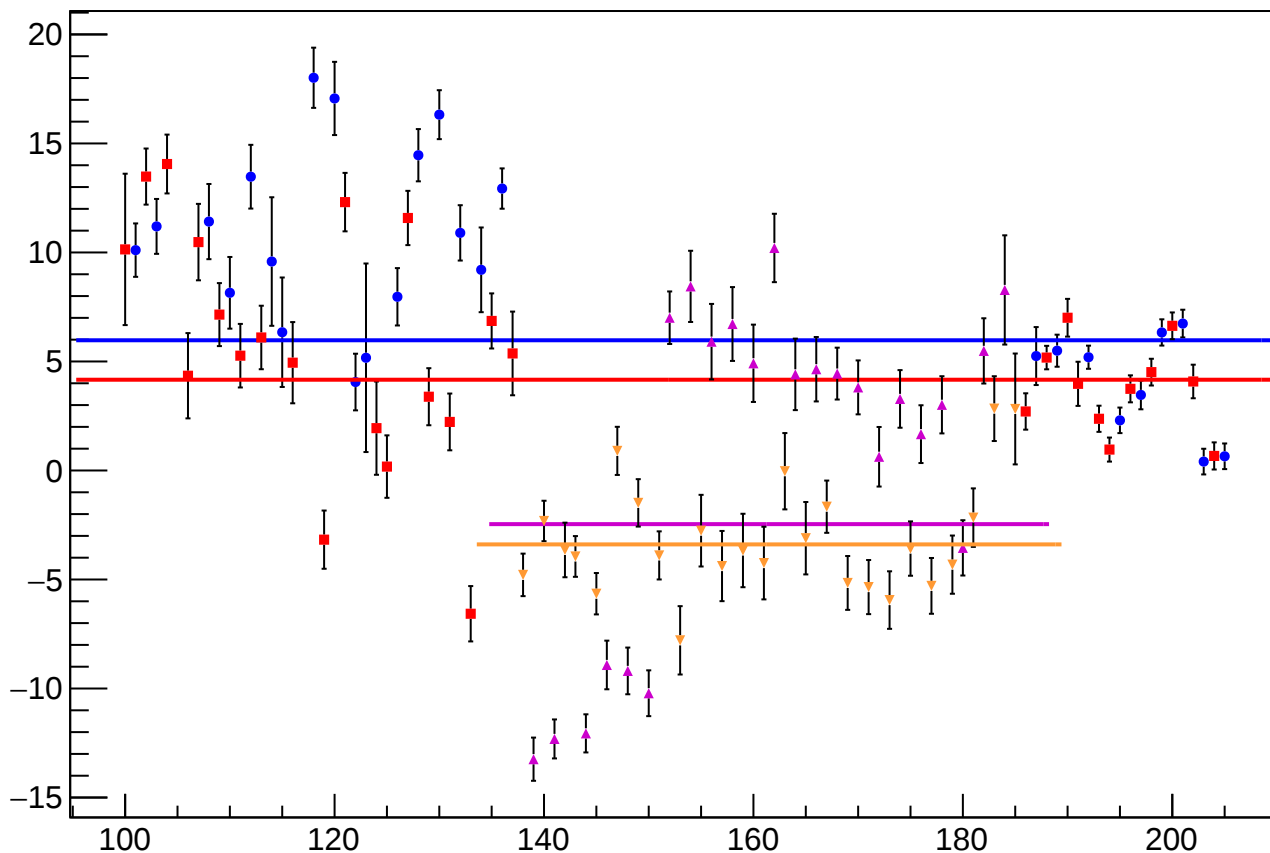
Right: 3674.211 ± 0.519 $\chi^2/\text{NDF}: 4131473.6/55$

In: 4146.411 ± 0.549 $\chi^2/\text{NDF}: 3602410.5/48$

Out: 4211.623 ± 0.536 $\chi^2/\text{NDF}: 3339425.7/54$

All: 4179.826 ± 0.384 $\chi^2/\text{NDF}: 6949060.6/10$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 5.972 ± 0.181 $\chi^2/\text{NDF}: 631.6/25$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.163 ± 0.171 $\chi^2/\text{NDF}: 428.2/29$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

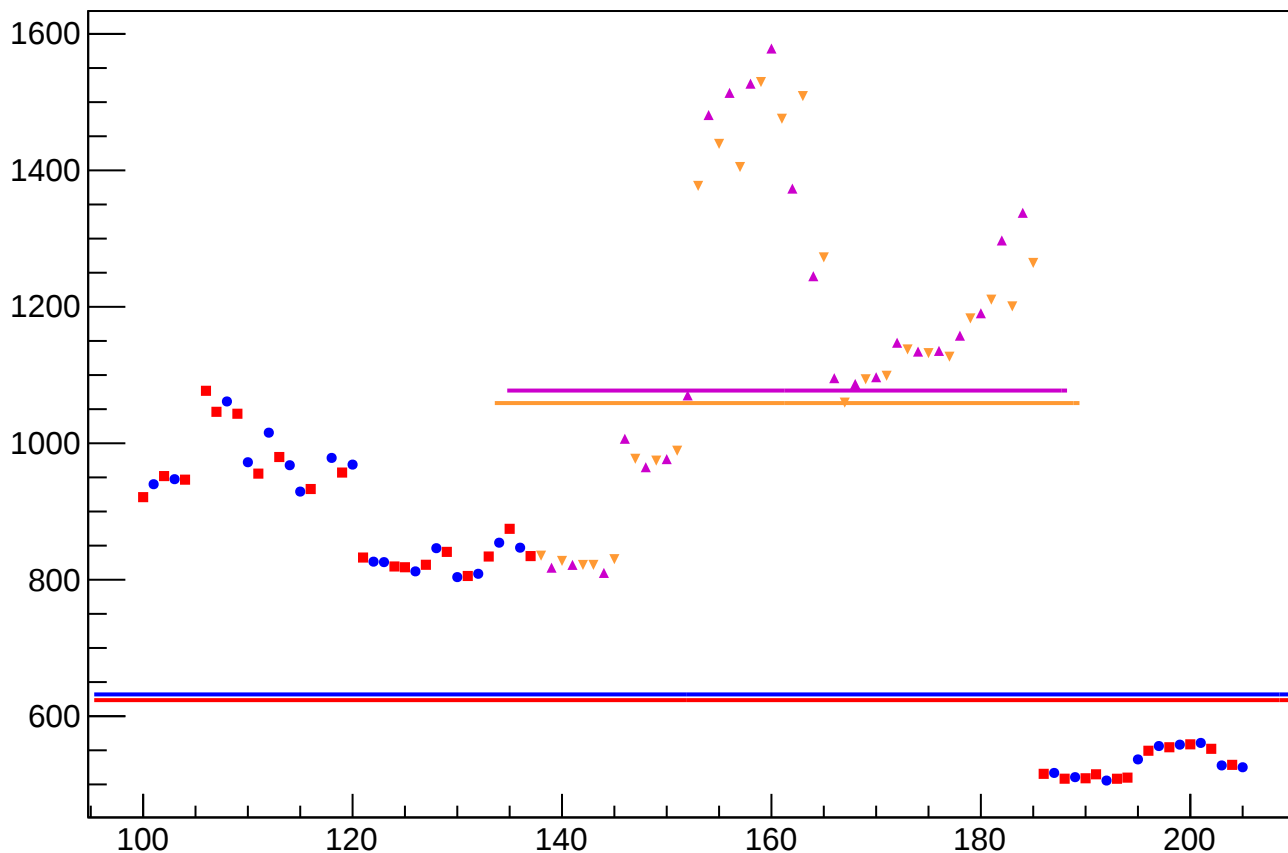
Right: 5.018 ± 0.124 $\chi^2/\text{NDF}: 1112.6/55$

In: 3.284 ± 0.149 $\chi^2/\text{NDF}: 2252.8/48$

Out: 1.783 ± 0.142 $\chi^2/\text{NDF}: 1119.9/54$

All: 2.494 ± 0.103 $\chi^2/\text{NDF}: 3426.0/103$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 631.924 $\pm$ 0.128 χ^2 /NDF: 1675807.2/25

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF: 1403222.2/24

Right Out: 623.535 $\pm$ 0.121 χ^2 /NDF: 1943351.8/29

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

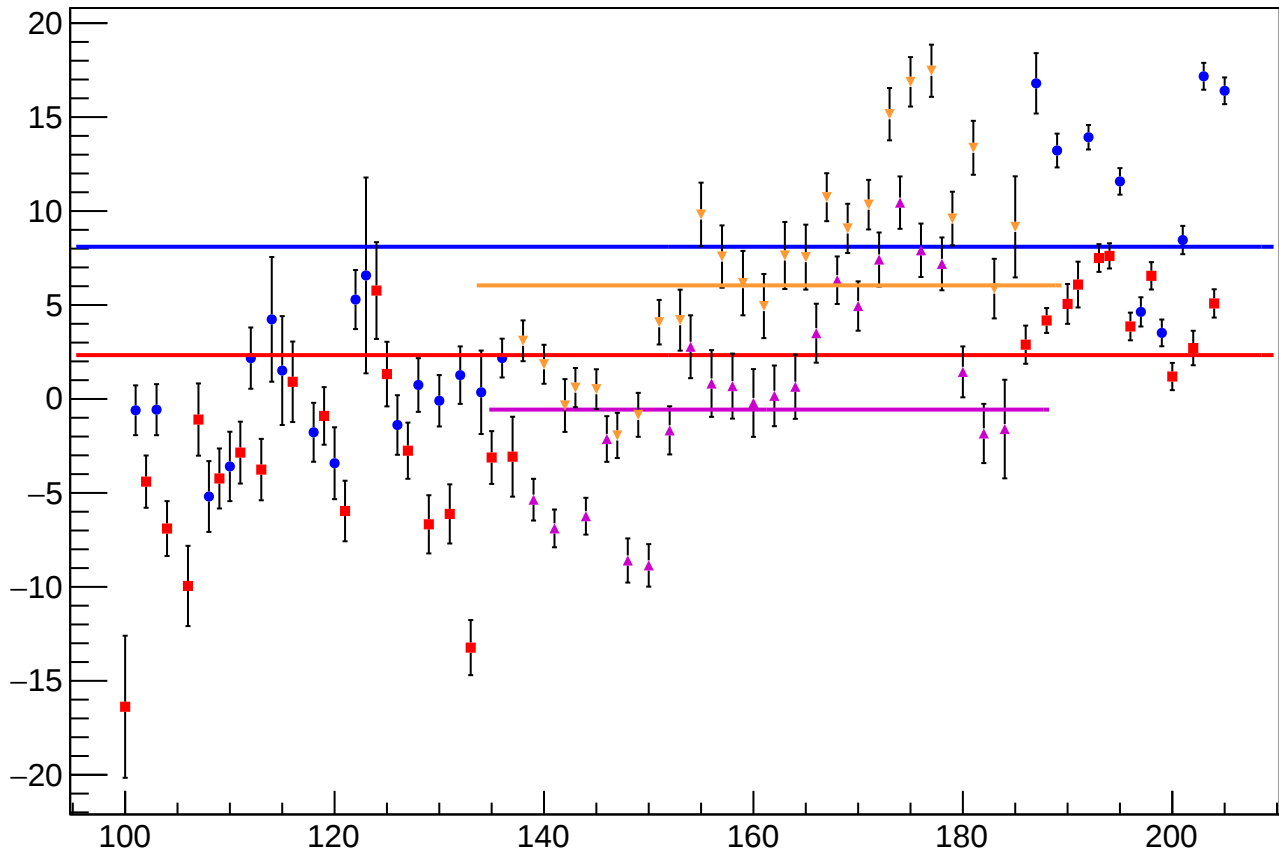
Right: 627.498 $\pm$ 0.088 χ^2 /NDF: 3621430.0/55

In: 773.874 $\pm$ 0.106 χ^2 /NDF: 6823052.1/48

Out: 760.739 $\pm$ 0.100 χ^2 /NDF: 7427505.6/54

All: 766.962 $\pm$ 0.073 χ^2 /NDF: 14258710.5/10

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 8.100 ± 0.215 $\chi^2/\text{NDF}: 960.7/25$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 2.334 ± 0.204 $\chi^2/\text{NDF}: 596.1/29$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

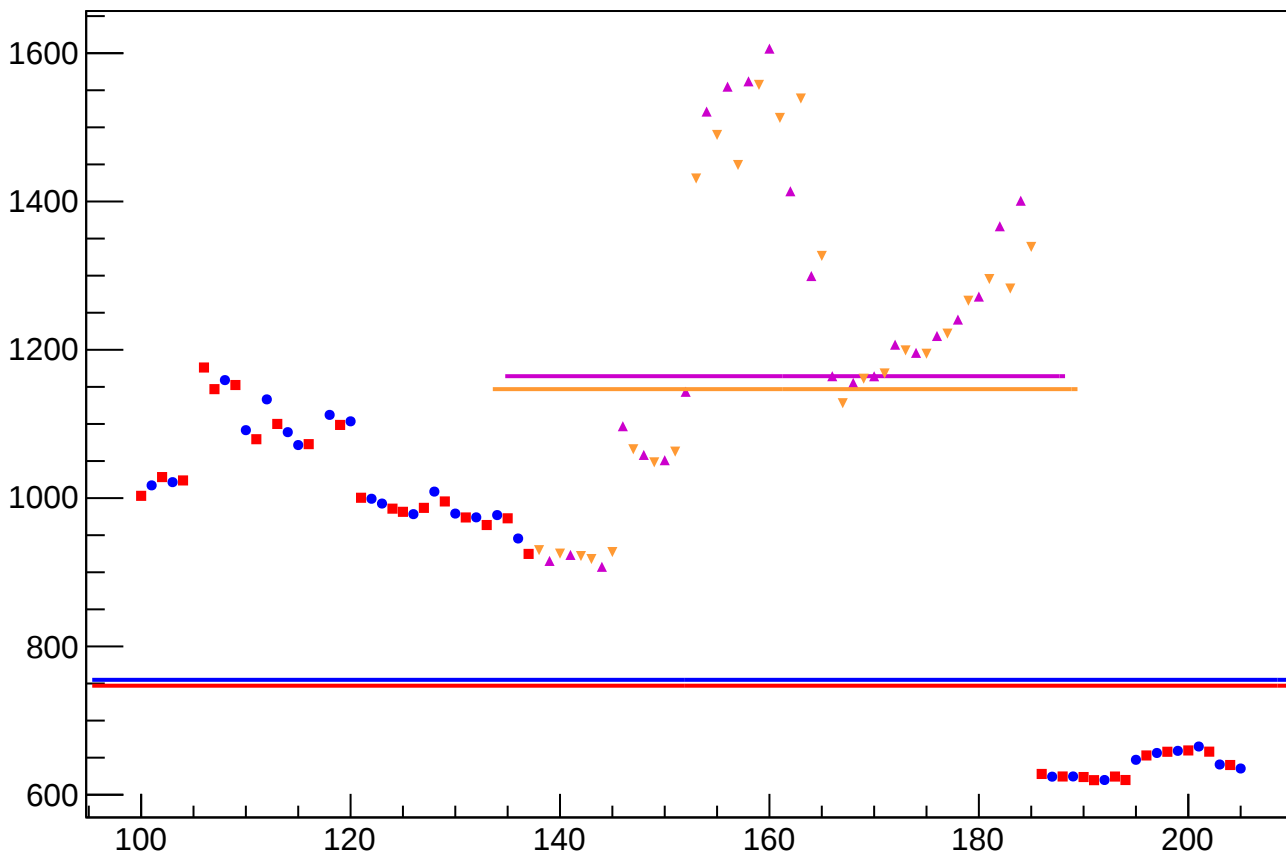
Right: 5.064 ± 0.148 $\chi^2/\text{NDF}: 1936.5/55$

In: 4.950 ± 0.171 $\chi^2/\text{NDF}: 1969.8/48$

Out: 3.668 ± 0.163 $\chi^2/\text{NDF}: 1146.4/54$

All: 4.277 ± 0.118 $\chi^2/\text{NDF}: 3145.6/103$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 754.964 $\pm$ 0.152 χ^2 /NDF: 1366606.3/25

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 747.038 $\pm$ 0.144 χ^2 /NDF: 1566157.5/29

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

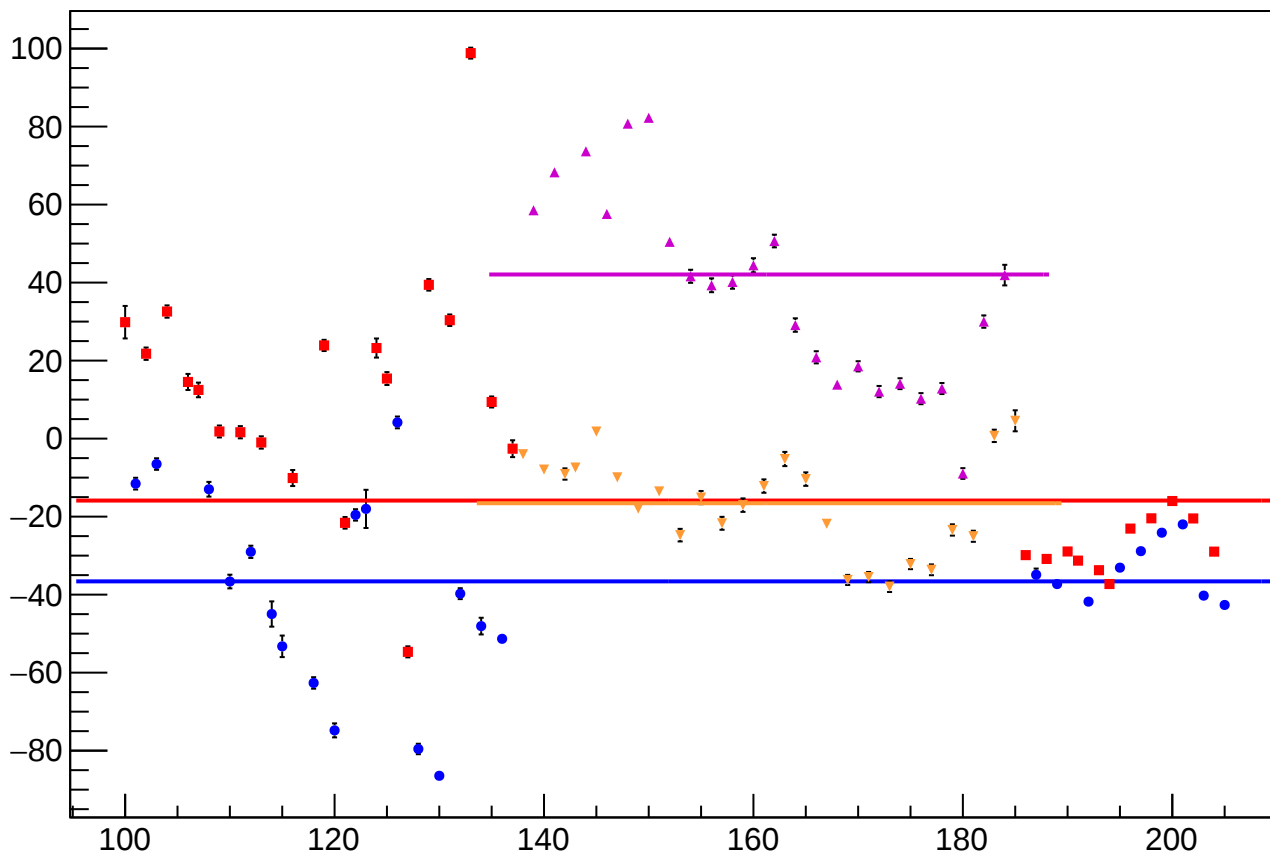
Right: 750.790 $\pm$ 0.104 χ^2 /NDF: 2934198.9/55

In: 903.804 $\pm$ 0.121 χ^2 /NDF:4954720.1/48

Out: 890.856 $\pm$ 0.115 χ^2 /NDF:5387358.3/54

All: 897.005 $\pm$ 0.083 χ^2 /NDF: 10348077.6/10

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -36.599 ± 0.211 χ^2/NDF : 6282.6/25

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: -15.879 ± 0.200 χ^2/NDF : 17255.5/29

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

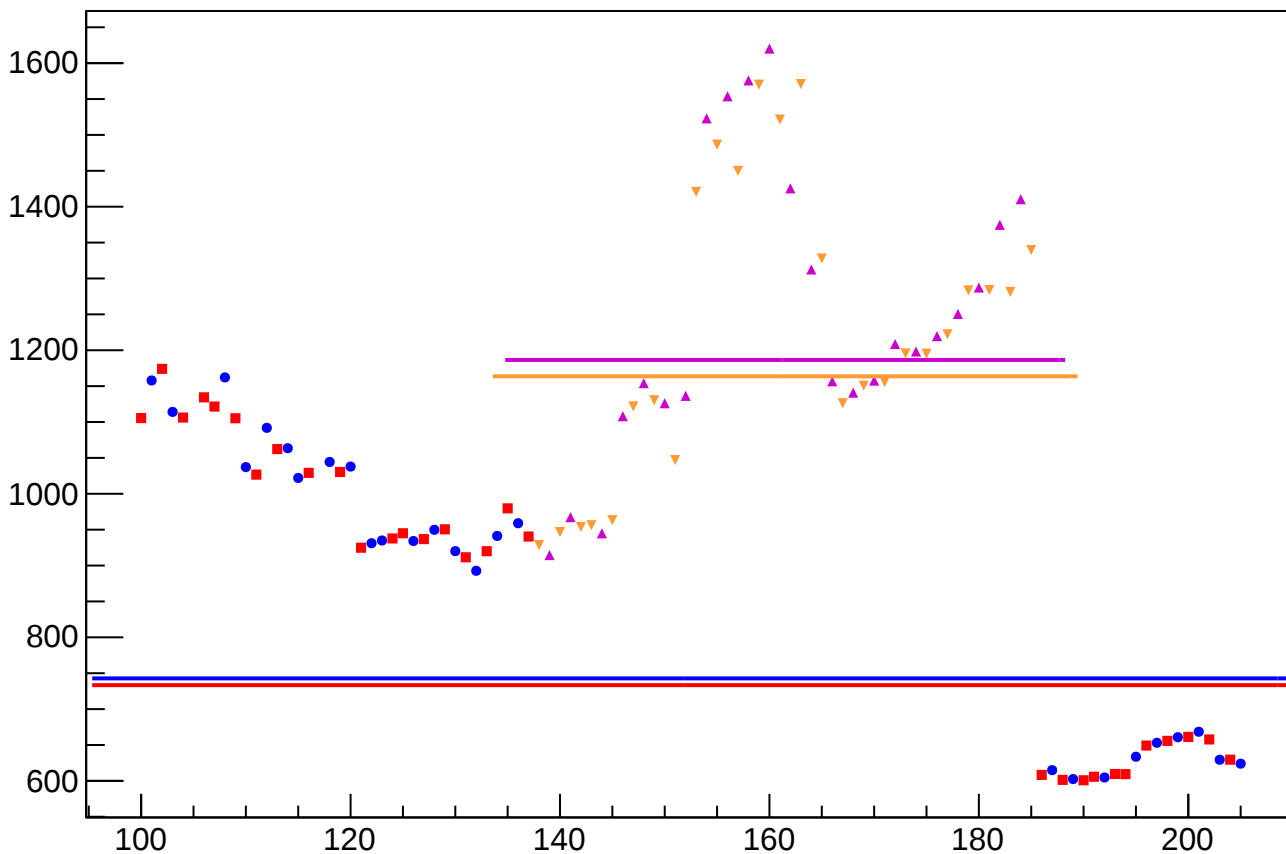
Right: -25.666 ± 0.145 χ^2/NDF : 28613.9/55

In: -9.210 ± 0.171 χ^2/NDF : 62896.2/48

Out: -16.117 ± 0.162 χ^2/NDF : 19190.8/54

All: -12.847 ± 0.117 χ^2/NDF : 82950.3/103

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 742.788 $\pm$ 0.149 χ^2 /NDF: 1379982.3/25

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 733.396 $\pm$ 0.141 χ^2 /NDF: 1579705.0/29

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

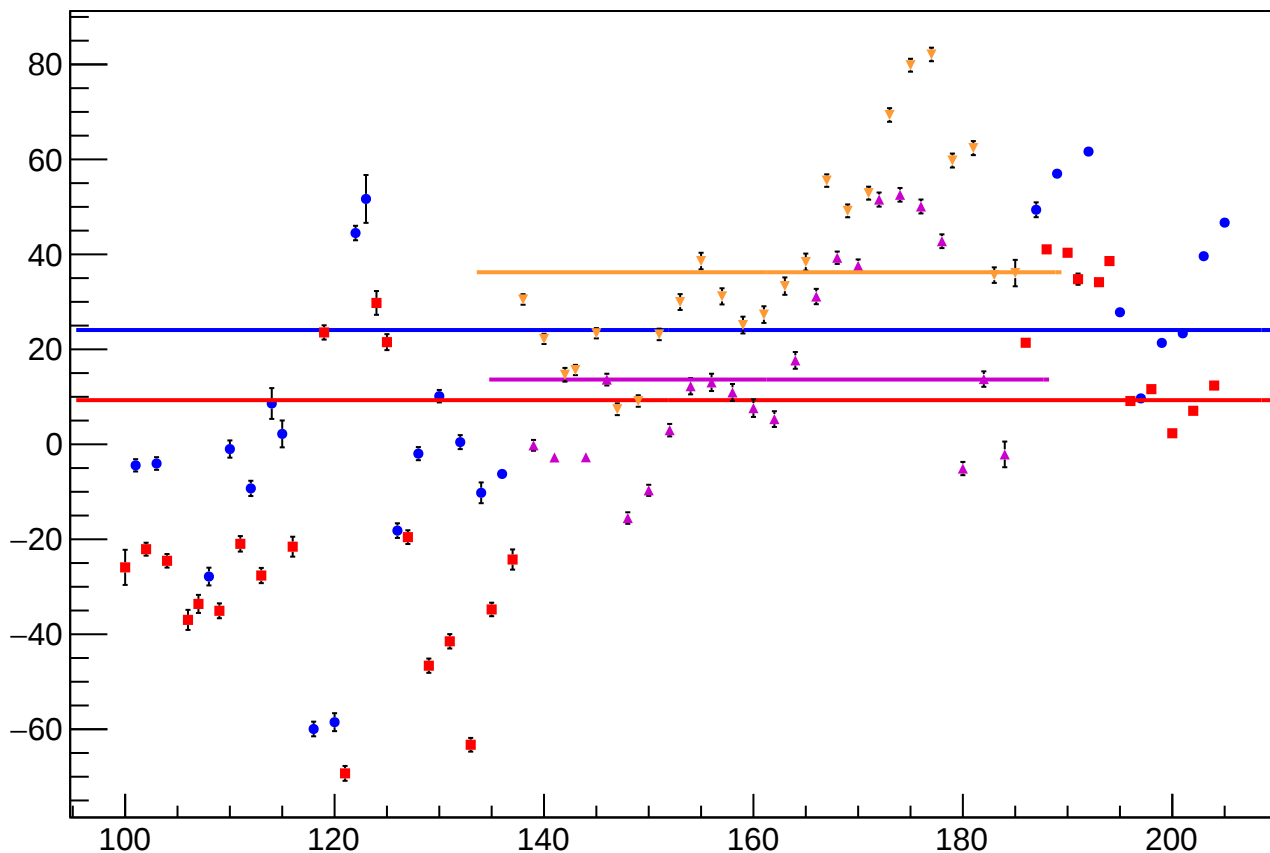
Right: 737.832 $\pm$ 0.103 χ^2 /NDF: 2961773.0/55

In: 897.245 $\pm$ 0.121 χ^2 /NDF: 5284402.4/48

Out: 881.949 $\pm$ 0.114 χ^2 /NDF: 5715857.9/54

All: 889.191 $\pm$ 0.083 χ^2 /NDF: 11008729.2/100

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 24.066 $\pm$ 0.209 χ^2 /NDF: 17311.2/25

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF: 5794.2/24

Right Out: 9.298 $\pm$ 0.198 χ^2 /NDF: 20882.2/29

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

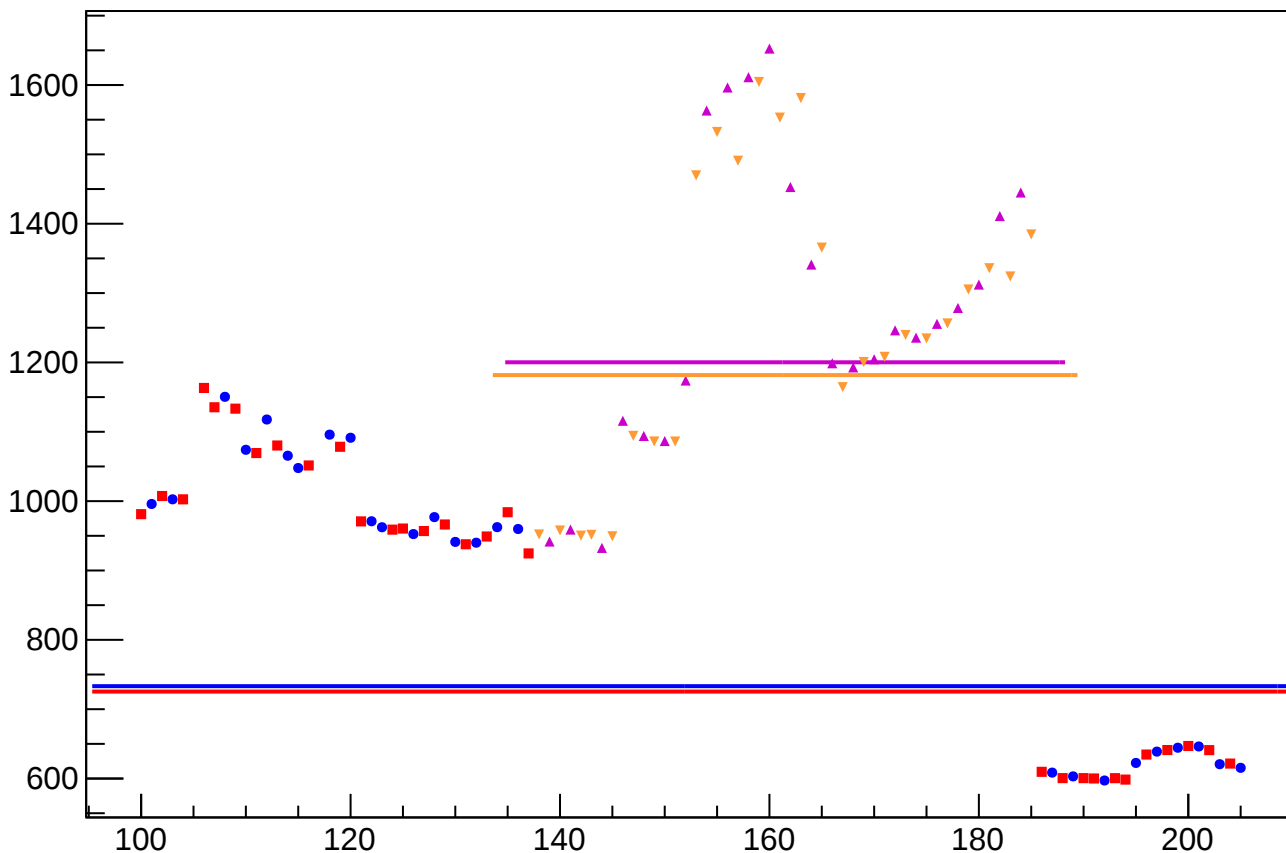
Right: 16.288 $\pm$ 0.144 χ^2 /NDF: 40828.0/55

In: 20.551 $\pm$ 0.170 χ^2 /NDF: 23329.7/48

Out: 18.280 $\pm$ 0.162 χ^2 /NDF: 32850.7/54

All: 19.358 $\pm$ 0.117 χ^2 /NDF: 56274.3/103

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 733.198 $\pm$ 0.148 χ^2/NDF : 1443753.7/25

Left Out: 1181.732 $\pm$ 0.198 χ^2/NDF :1043520.8/24

Right Out: 725.426 $\pm$ 0.140 χ^2/NDF : 1648045.2/29

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

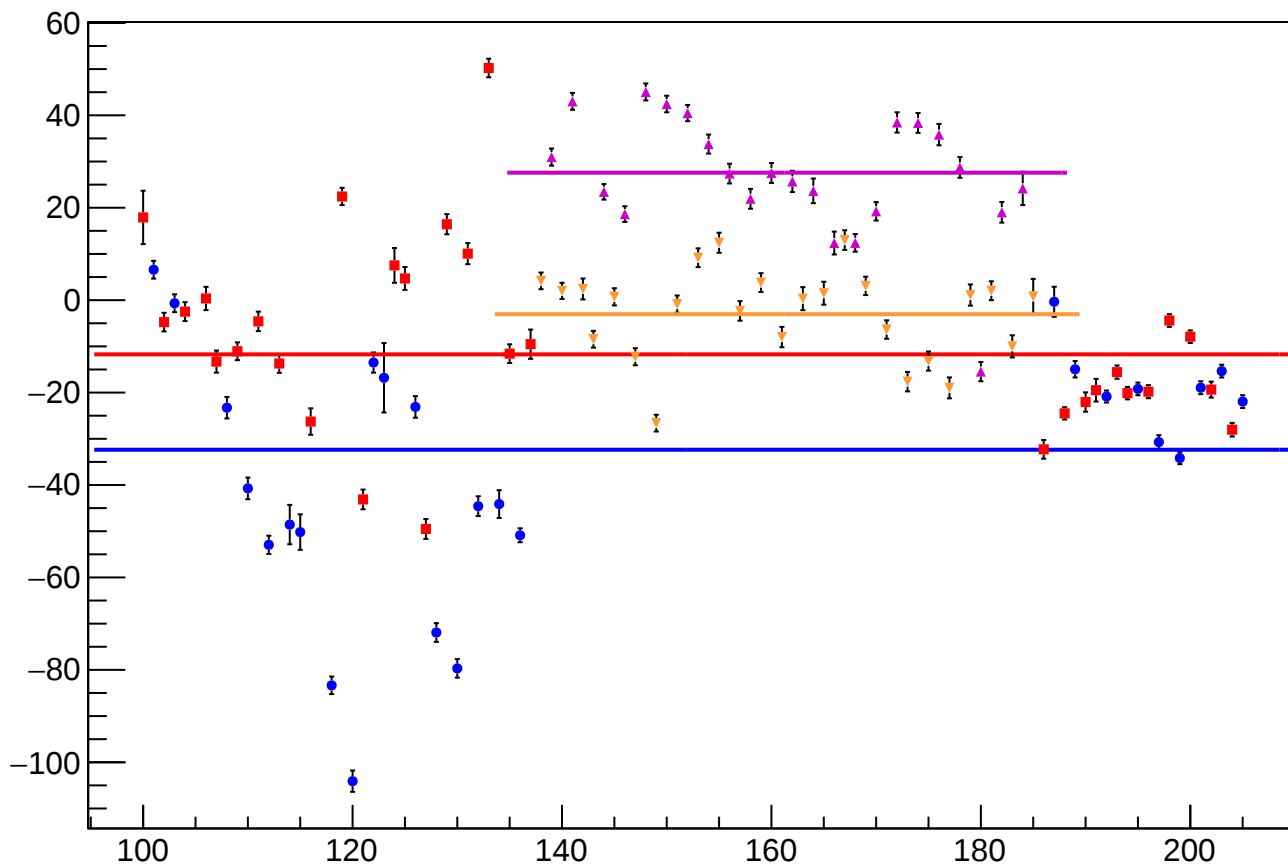
Right: 729.105 $\pm$ 0.102 χ^2/NDF : 3093258.3/55

In: 890.628 $\pm$ 0.120 χ^2/NDF :5754728.4/48

Out: 877.575 $\pm$ 0.114 χ^2/NDF :6235292.9/54

All: 883.771 $\pm$ 0.083 χ^2/NDF : 11996215.2/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -32.366 ± 0.364 χ^2/NDF : 4441.3/25

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -11.729 ± 0.348 χ^2/NDF : 2739.5/29

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

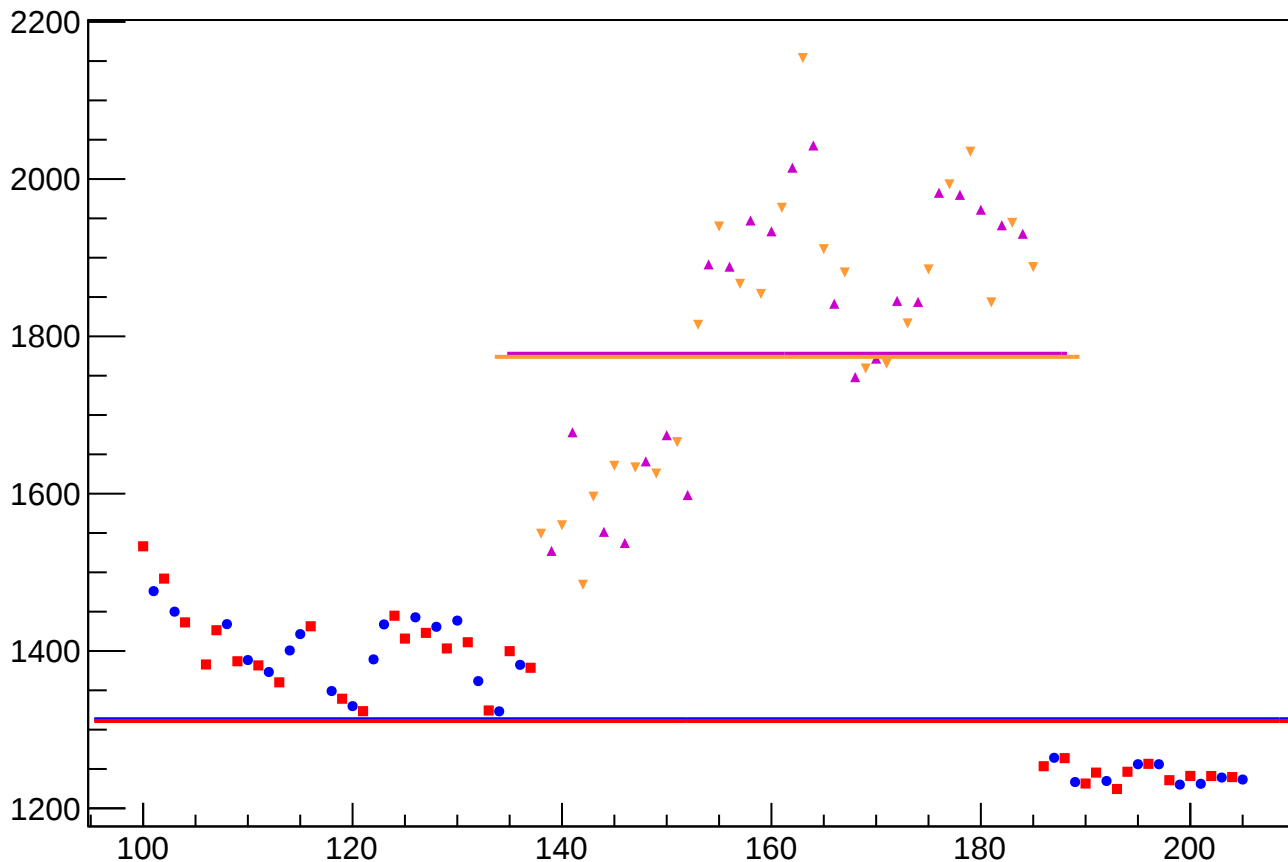
Right: -21.580 ± 0.252 χ^2/NDF : 8859.1/55

In: -7.260 ± 0.278 χ^2/NDF : 16749.5/48

Out: -8.141 ± 0.267 χ^2/NDF : 3552.6/54

All: -7.718 ± 0.192 χ^2/NDF : 20307.3/103

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1313.228+/-0.258 χ^2/NDF : 110758.9/25

Left Out: 1773.965+/-0.294 χ^2/NDF : 313031.1/24

Right Out: 1311.008+/-0.246 χ^2/NDF : 109716.0/29

Left In: 1777.884+/-0.303 χ^2/NDF : 299514.0/22

Left: 1775.860+/-0.211 χ^2/NDF : 612631.3/47

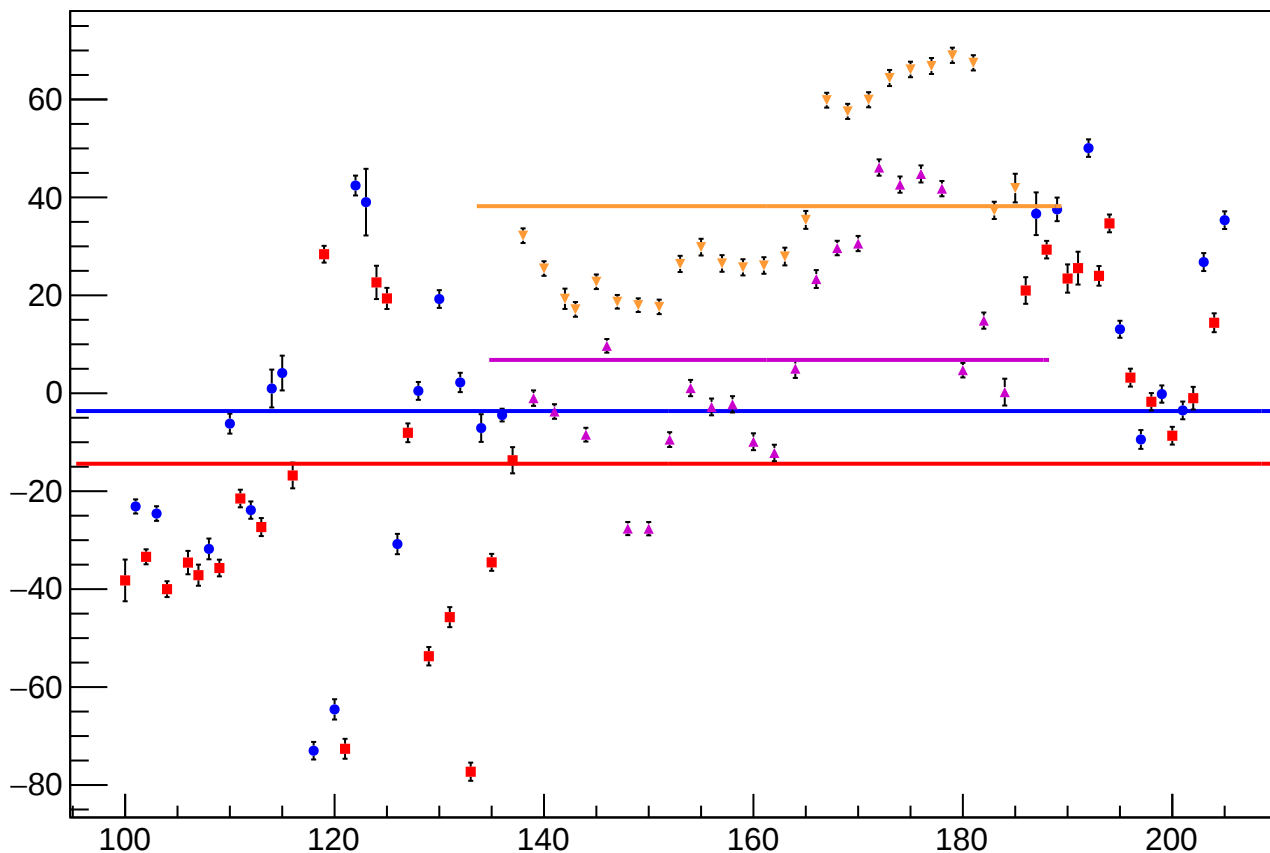
Right: 1312.068+/-0.178 χ^2/NDF : 220513.7/55

In: 1507.823+/-0.196 χ^2/NDF : 1773784.8/48

Out: 1502.121+/-0.189 χ^2/NDF : 1883638.8/54

All: 1504.857+/-0.136 χ^2/NDF : 3657862.3/100

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.634 ± 0.382 χ^2/NDF : 6079.7/25

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -14.391 ± 0.368 χ^2/NDF : 7200.9/29

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

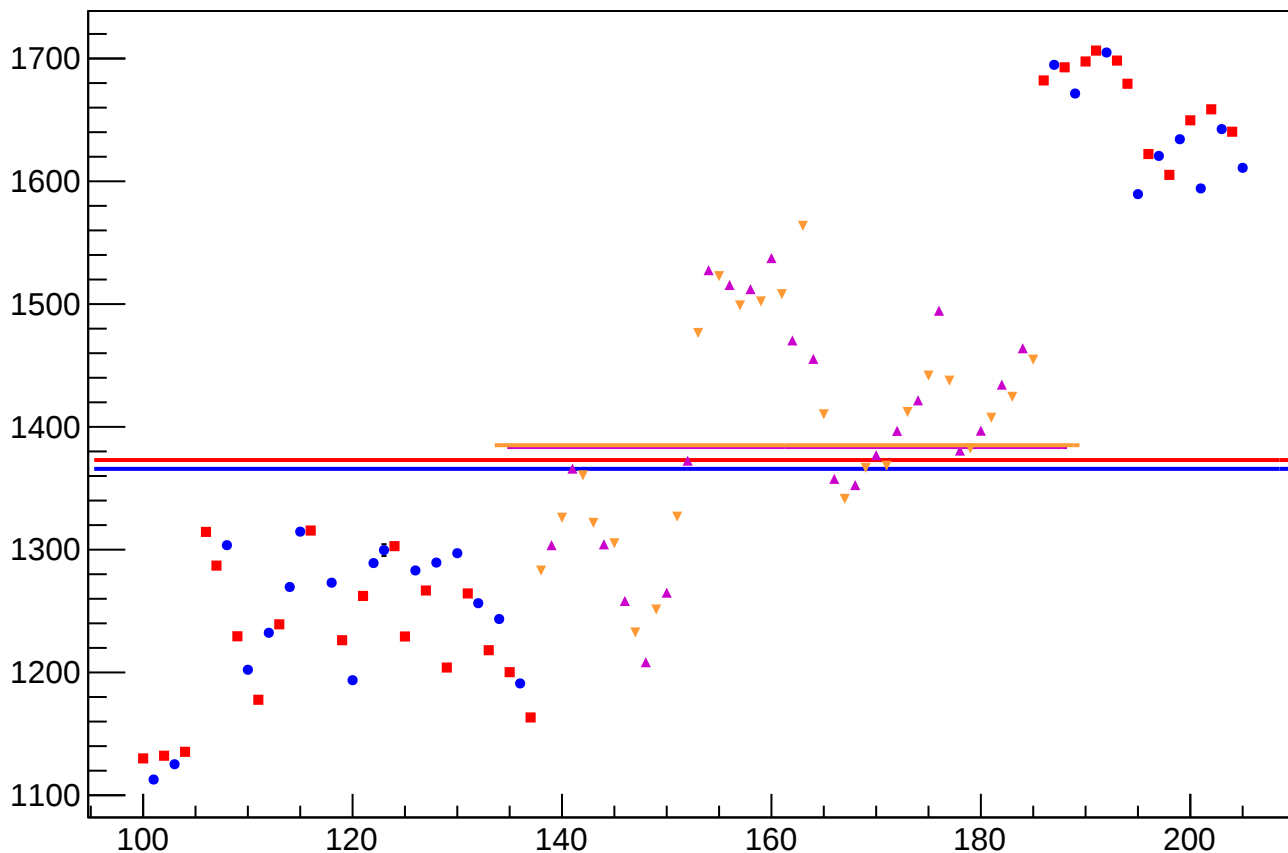
Right: -9.213 ± 0.265 χ^2/NDF : 13691.4/55

In: 2.303 ± 0.251 χ^2/NDF : 10998.6/48

Out: 15.306 ± 0.243 χ^2/NDF : 22233.8/54

All: 9.017 ± 0.175 χ^2/NDF : 34617.2/103

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1365.806 $\pm$ 0.270 χ^2 /NDF: 562736.9/25

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1372.989 $\pm$ 0.260 χ^2 /NDF: 688496.9/29

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2 /NDF: 300718.5/47

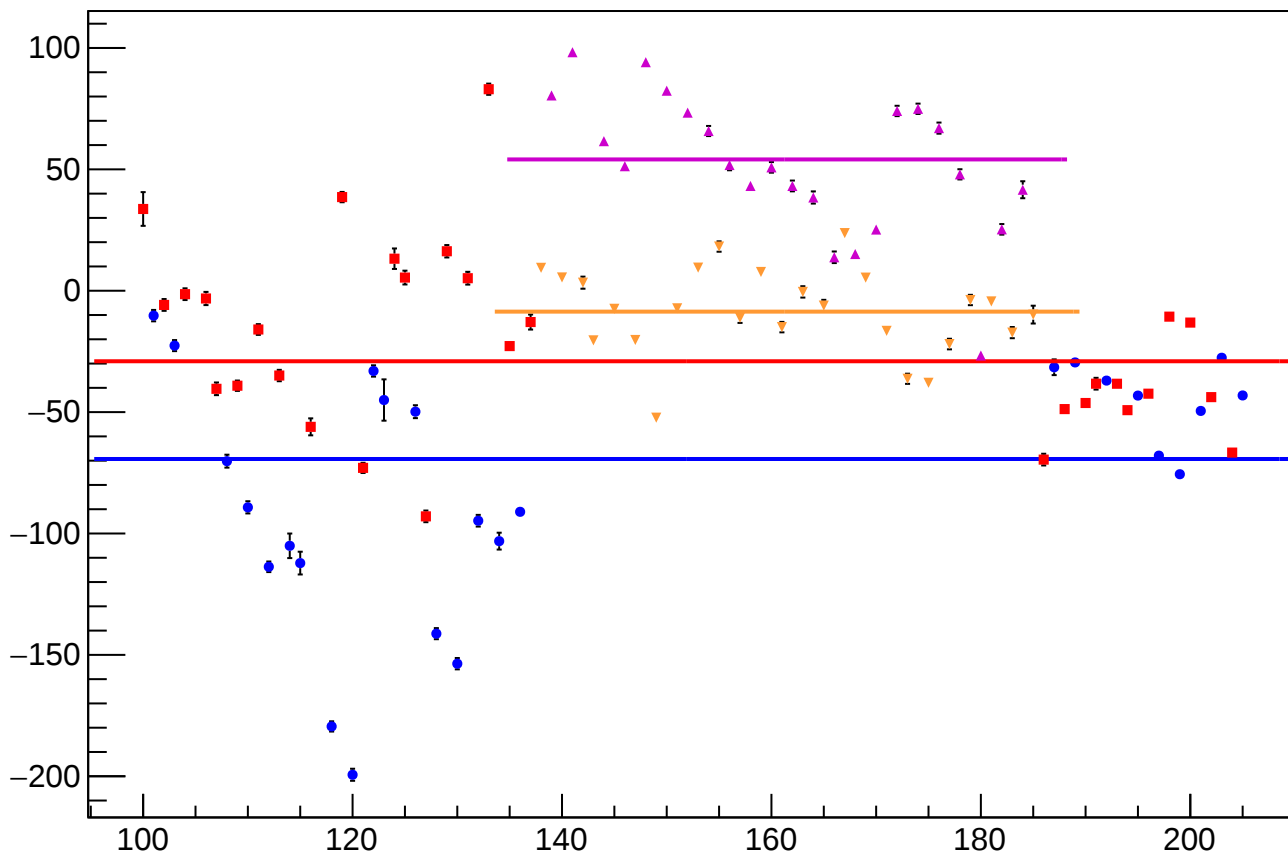
Right: 1369.531 $\pm$ 0.188 χ^2 /NDF: 1251600.0/55

In: 1375.899 $\pm$ 0.178 χ^2 /NDF:719885.2/48

Out: 1379.806 $\pm$ 0.172 χ^2 /NDF:835712.5/54

All: 1377.916 $\pm$ 0.123 χ^2 /NDF: 1555847.8/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -69.309±/0.404 χ^2/NDF : 12783.5/25

Left Out: -8.606±/0.410 χ^2/NDF :1930.5/24

Right Out: -29.051±/0.382 χ^2/NDF : 7488.6/29

Left In: 54.089±/0.426 χ^2/NDF :4721.6/22

Left: 21.586±/0.295 χ^2/NDF : 17900.0/47

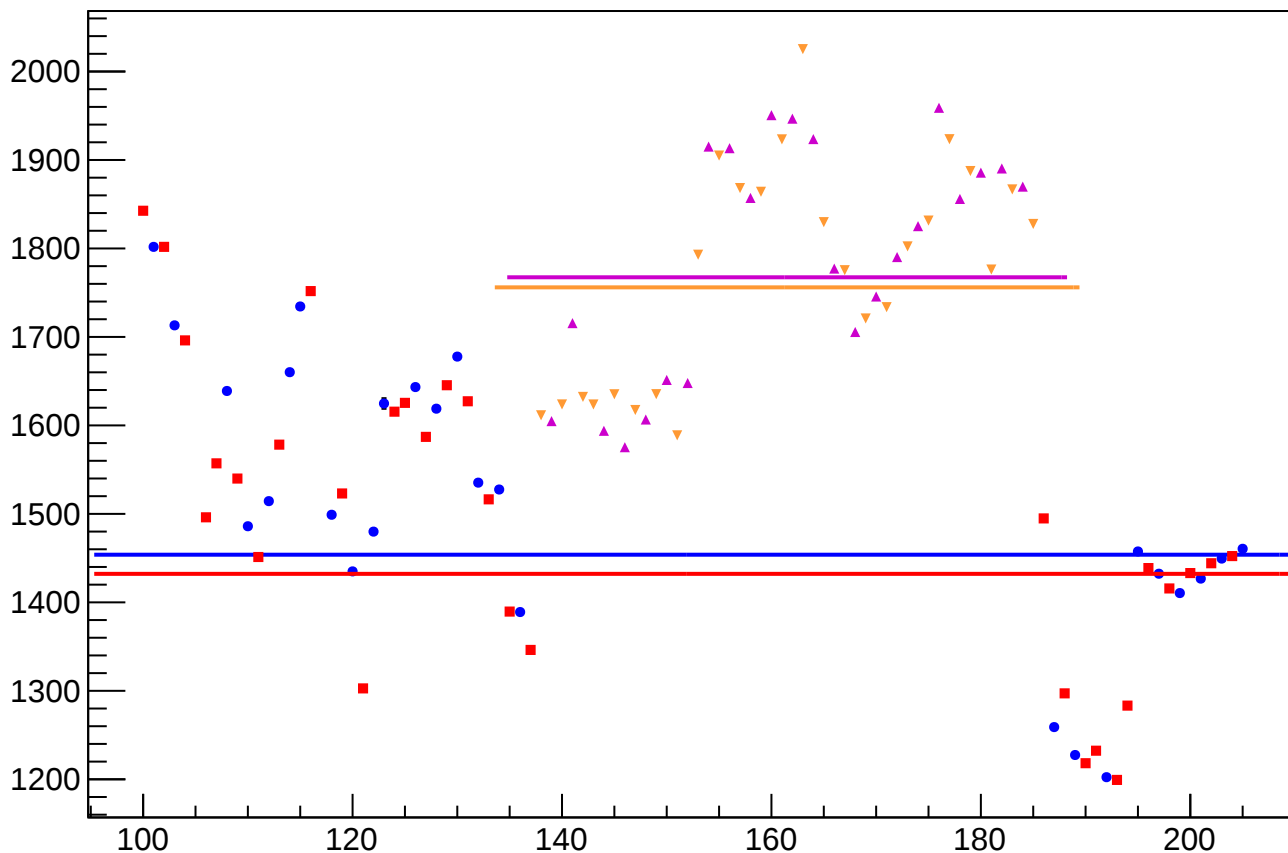
Right: -48.007±/0.278 χ^2/NDF : 25515.3/55

In: -10.761±/0.293 χ^2/NDF :61675.9/48

Out: -19.569±/0.279 χ^2/NDF :10751.1/54

All: -15.377±/0.202 χ^2/NDF : 72900.0/103

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.857 $\pm$ 0.286 χ^2 /NDF: 261532.9/25

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1432.214 $\pm$ 0.270 χ^2 /NDF: 308100.6/29

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

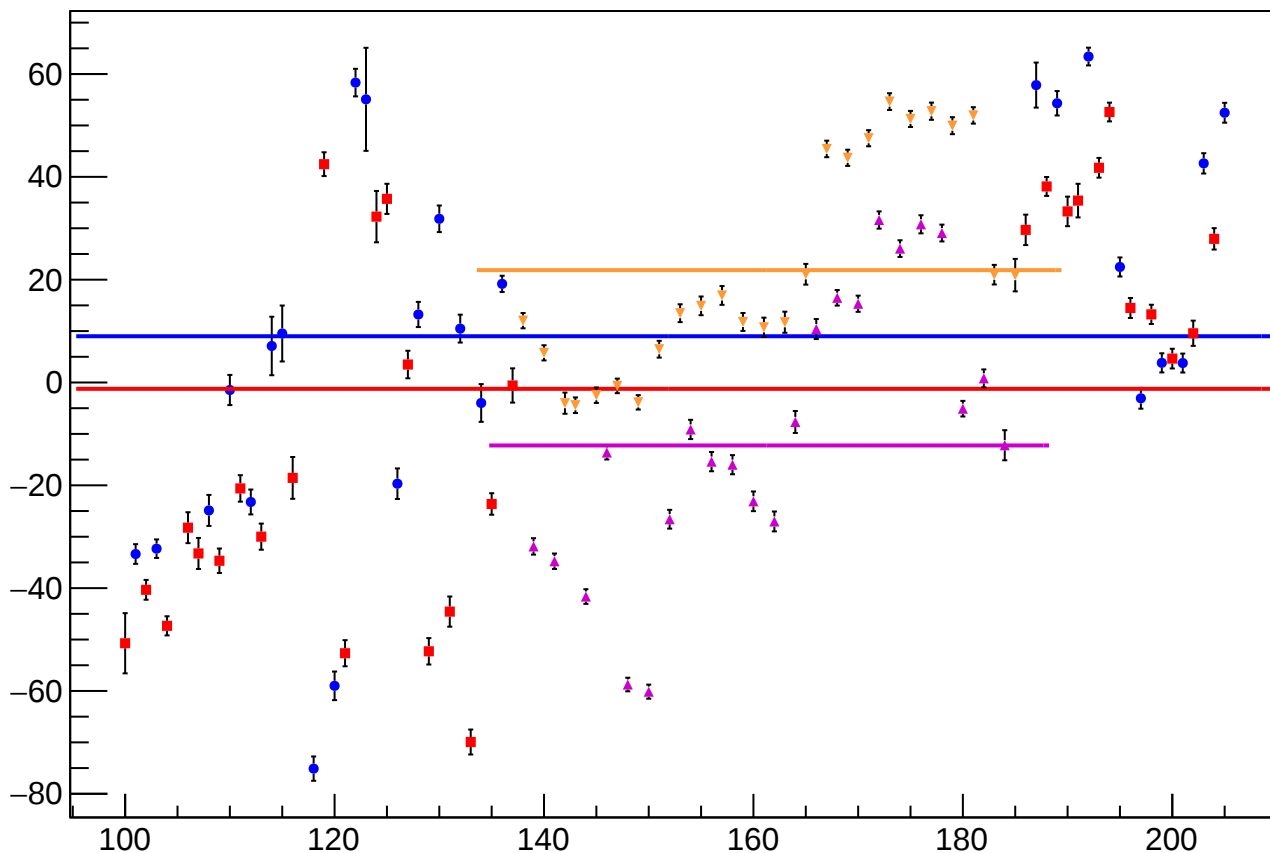
Right: 1442.405 $\pm$ 0.196 χ^2 /NDF: 572664.3/55

In: 1602.628 $\pm$ 0.207 χ^2 /NDF:1019879.4/48

Out: 1582.397 $\pm$ 0.198 χ^2 /NDF:1152118.5/54

All: 1592.025 $\pm$ 0.143 χ^2 /NDF: 2176989.0/100

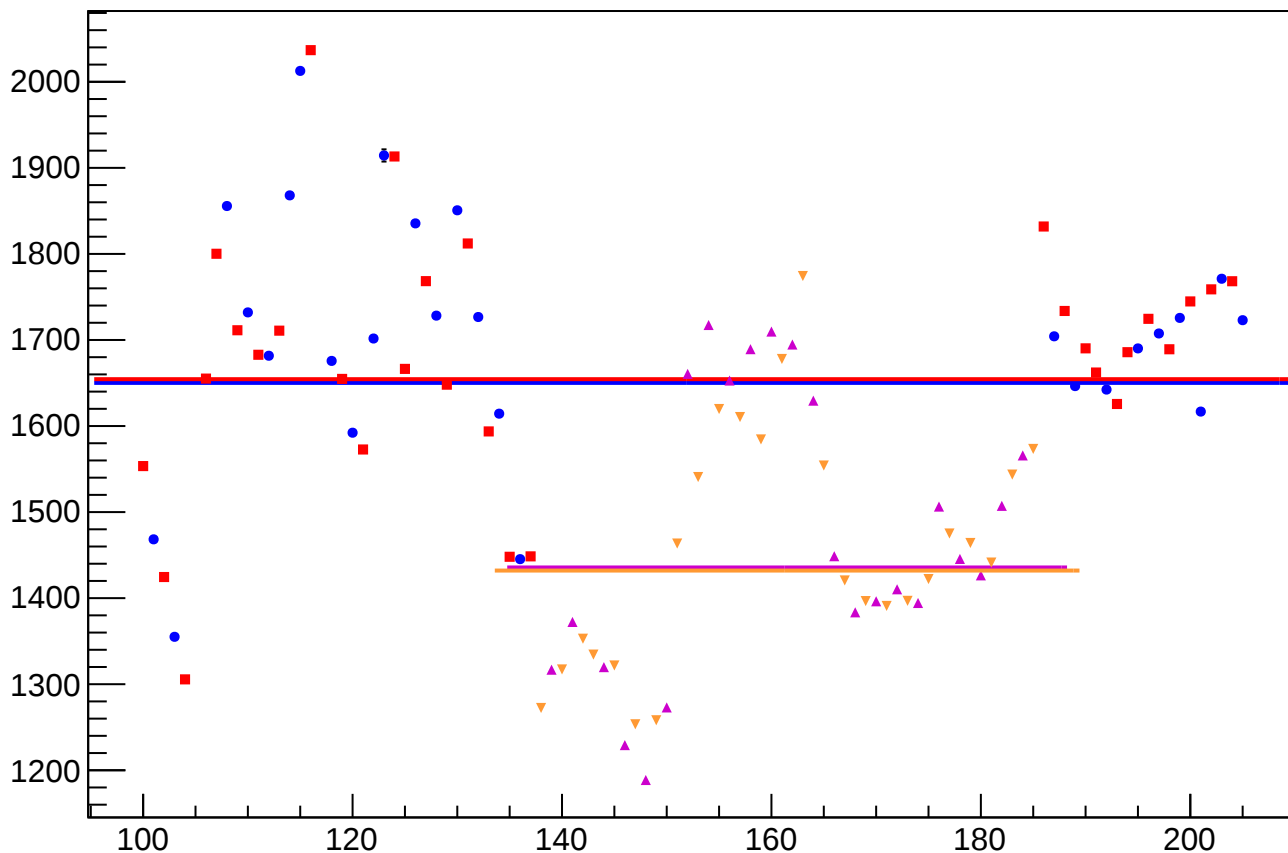
diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 8.998 $\pm$ 0.459 χ^2 /NDF: 6162.9/25
 Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24
 Right Out: -1.234 $\pm$ 0.440 χ^2 /NDF: 6754.5/29
 Left In: -12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2 /NDF: 15885.7/47
 Right: 3.670 $\pm$ 0.318 χ^2 /NDF: 13176.3/55
 In: -4.516 $\pm$ 0.277 χ^2 /NDF:14307.9/48
 Out: 13.377 $\pm$ 0.267 χ^2 /NDF:12606.1/54
 All: 4.762 $\pm$ 0.192 χ^2 /NDF: 29080.6/103

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1650.140 $\pm$ 0.324 χ^2 /NDF: 172429.9/25

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1654.450 $\pm$ 0.311 χ^2 /NDF: 198914.1/29

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

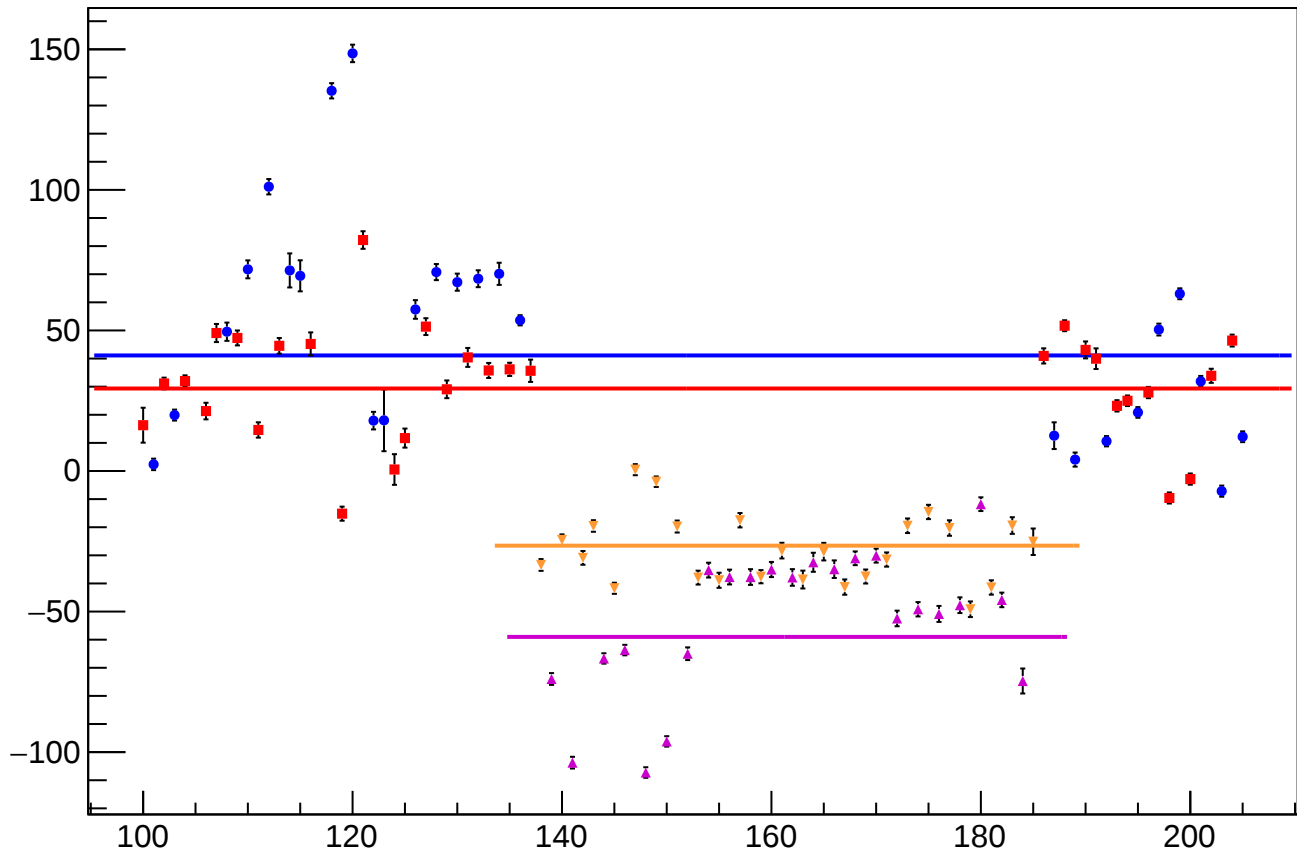
Right: 1652.385 $\pm$ 0.225 χ^2 /NDF: 371435.9/55

In: 1513.695 $\pm$ 0.196 χ^2 /NDF: 871254.8/48

Out: 1513.719 $\pm$ 0.189 χ^2 /NDF: 819301.6/54

All: 1513.708 $\pm$ 0.136 χ^2 /NDF: 1690556.4/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 41.106 $\pm$ 0.494 χ^2/NDF : 5585.8/25

Left Out: -26.554 $\pm$ 0.488 χ^2/NDF : 717.5/24

Right Out: 29.342 $\pm$ 0.471 χ^2/NDF : 1824.3/29

Left In: -59.014 $\pm$ 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 $\pm$ 0.351 χ^2/NDF : 5632.2/47

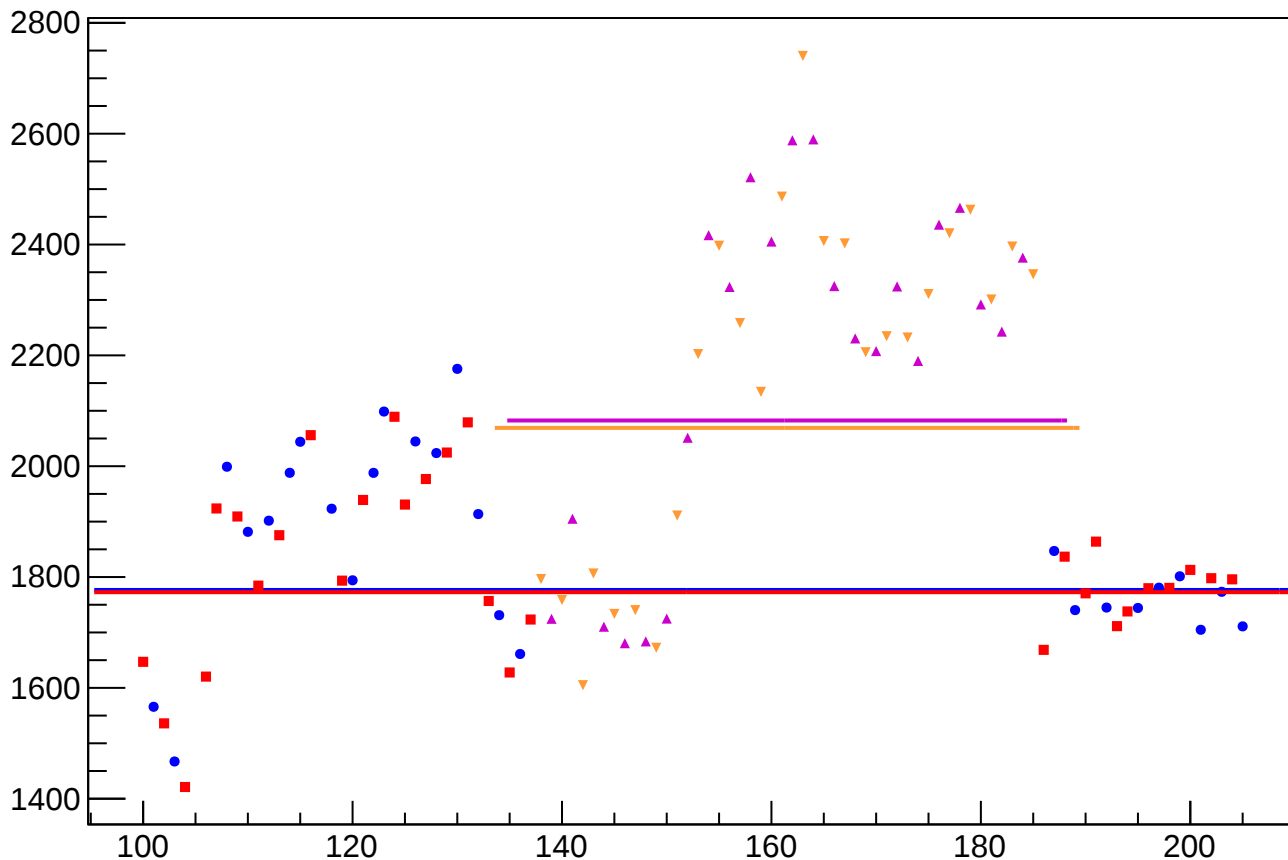
Right: 34.949 $\pm$ 0.341 χ^2/NDF : 7706.9/55

In: -7.714 $\pm$ 0.354 χ^2/NDF : 28396.4/48

Out: 2.354 $\pm$ 0.339 χ^2/NDF : 9330.7/54

All: -2.468 $\pm$ 0.245 χ^2/NDF : 38149.5/103

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1776.681 $\pm$ 0.349 χ^2 /NDF: 193626.1/25

Left Out: 2069.146 $\pm$ 0.345 χ^2 /NDF: 799037.9/24

Right Out: 1772.673 $\pm$ 0.333 χ^2 /NDF: 188089.0/29

Left In: 2082.497 $\pm$ 0.358 χ^2 /NDF: 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2 /NDF: 1585062.9/47

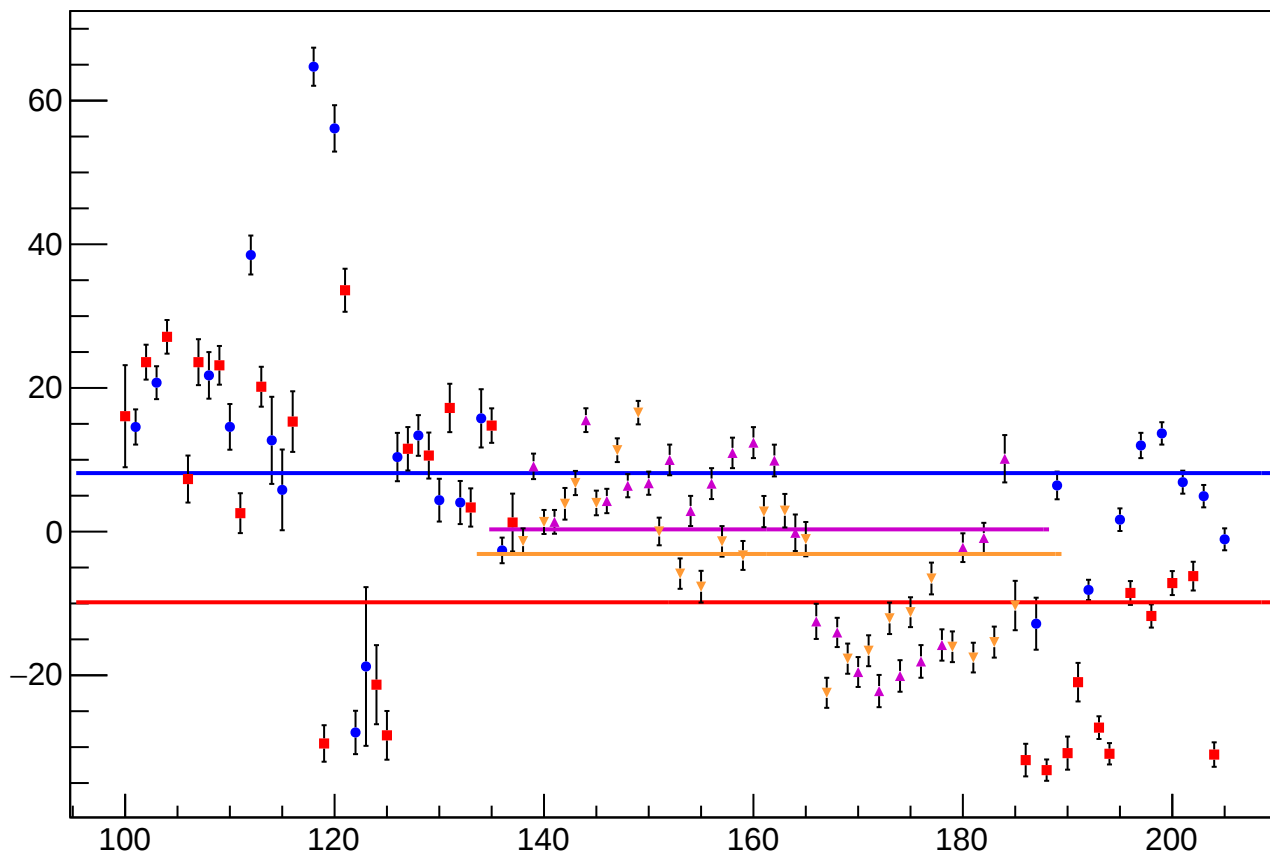
Right: 1774.583 $\pm$ 0.241 χ^2 /NDF: 381784.0/55

In: 1925.803 $\pm$ 0.250 χ^2 /NDF: 1352625.6/48

Out: 1915.820 $\pm$ 0.240 χ^2 /NDF: 1369103.9/54

All: 1920.601 $\pm$ 0.173 χ^2 /NDF: 2722560.1/100

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 8.146 $\pm$ 0.441 χ^2/NDF : 1299.4/25

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24

Right Out: -9.839 $\pm$ 0.422 χ^2/NDF : 2434.5/29

Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

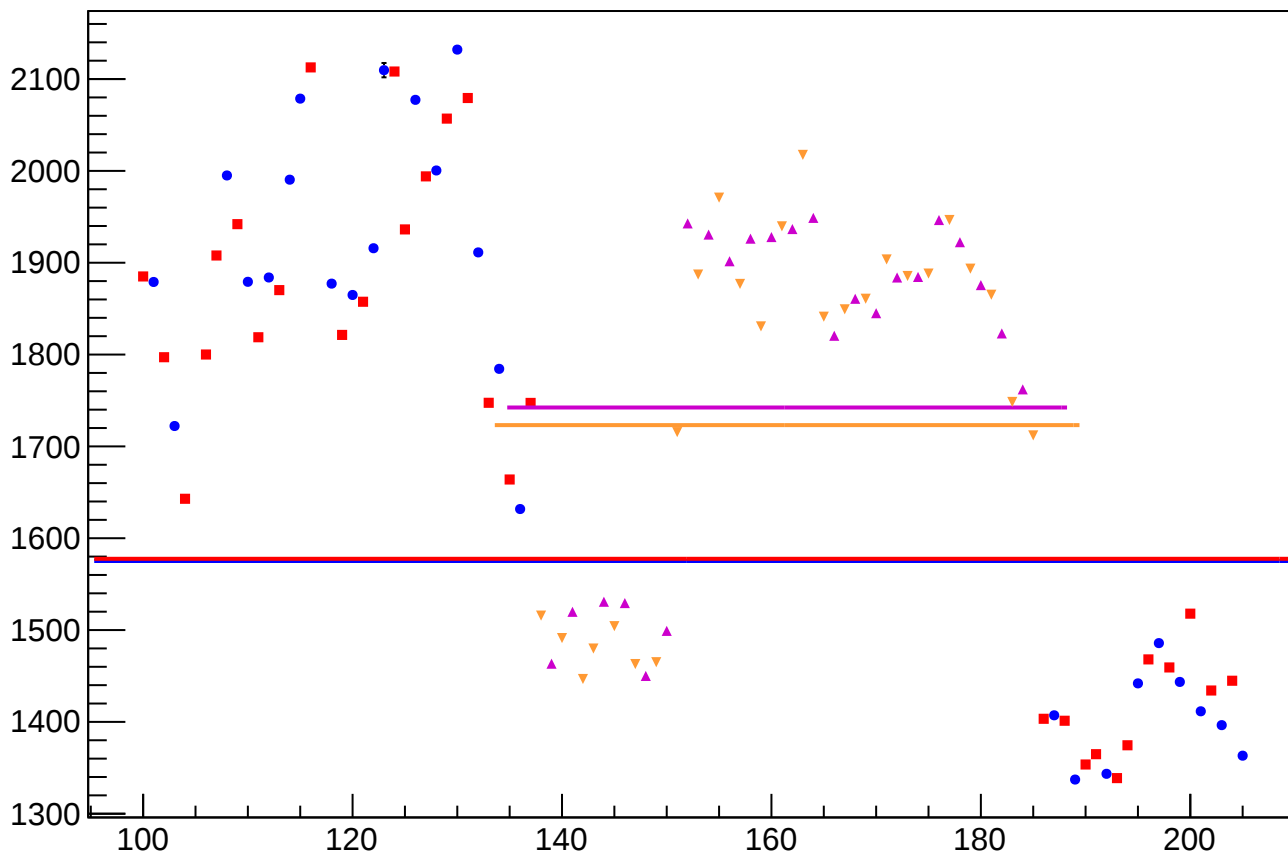
Right: -1.242 $\pm$ 0.305 χ^2/NDF : 4600.3/55

In: 4.044 $\pm$ 0.305 χ^2/NDF :2200.8/48

Out: -6.327 $\pm$ 0.292 χ^2/NDF :3210.6/54

All: -1.361 $\pm$ 0.211 χ^2/NDF : 6015.2/103

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1575.214 $\pm$ 0.312 χ^2 /NDF: 614578.9/25

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF:477441.1/24

Right Out: 1577.605 $\pm$ 0.299 χ^2 /NDF: 575525.7/29

Left In: 1742.354 $\pm$ 0.298 χ^2 /NDF:435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2 /NDF: 915443.3/47

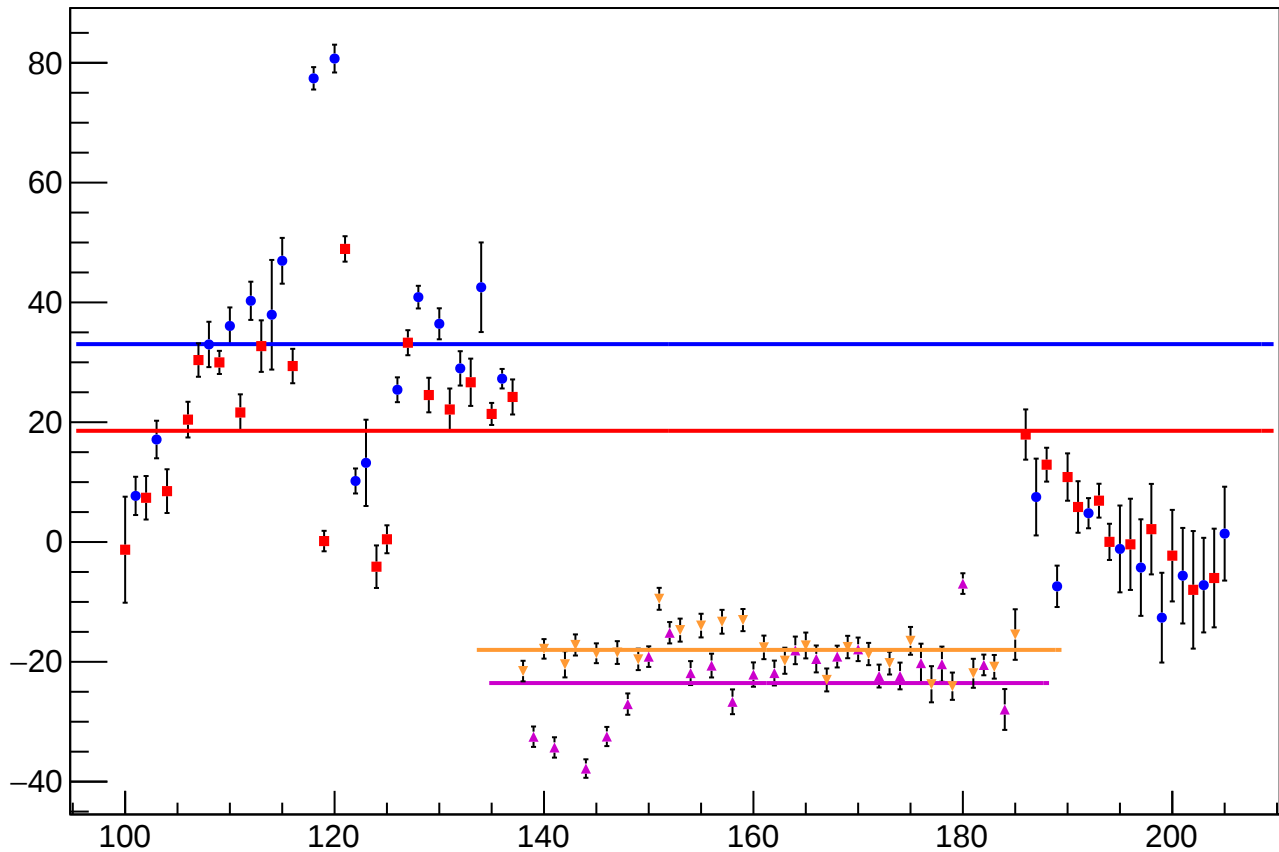
Right: 1576.462 $\pm$ 0.216 χ^2 /NDF: 1190135.3/55

In: 1662.734 $\pm$ 0.215 χ^2 /NDF:1200528.5/48

Out: 1653.594 $\pm$ 0.207 χ^2 /NDF:1176918.7/54

All: 1657.971 $\pm$ 0.149 χ^2 /NDF: 2378385.1/100

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.036 $\pm$ 0.596 χ^2 /NDF: 1694.1/25

Left Out: -18.007 $\pm$ 0.397 χ^2 /NDF: 73.8/24

Right Out: 18.567 $\pm$ 0.550 χ^2 /NDF: 694.2/29

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

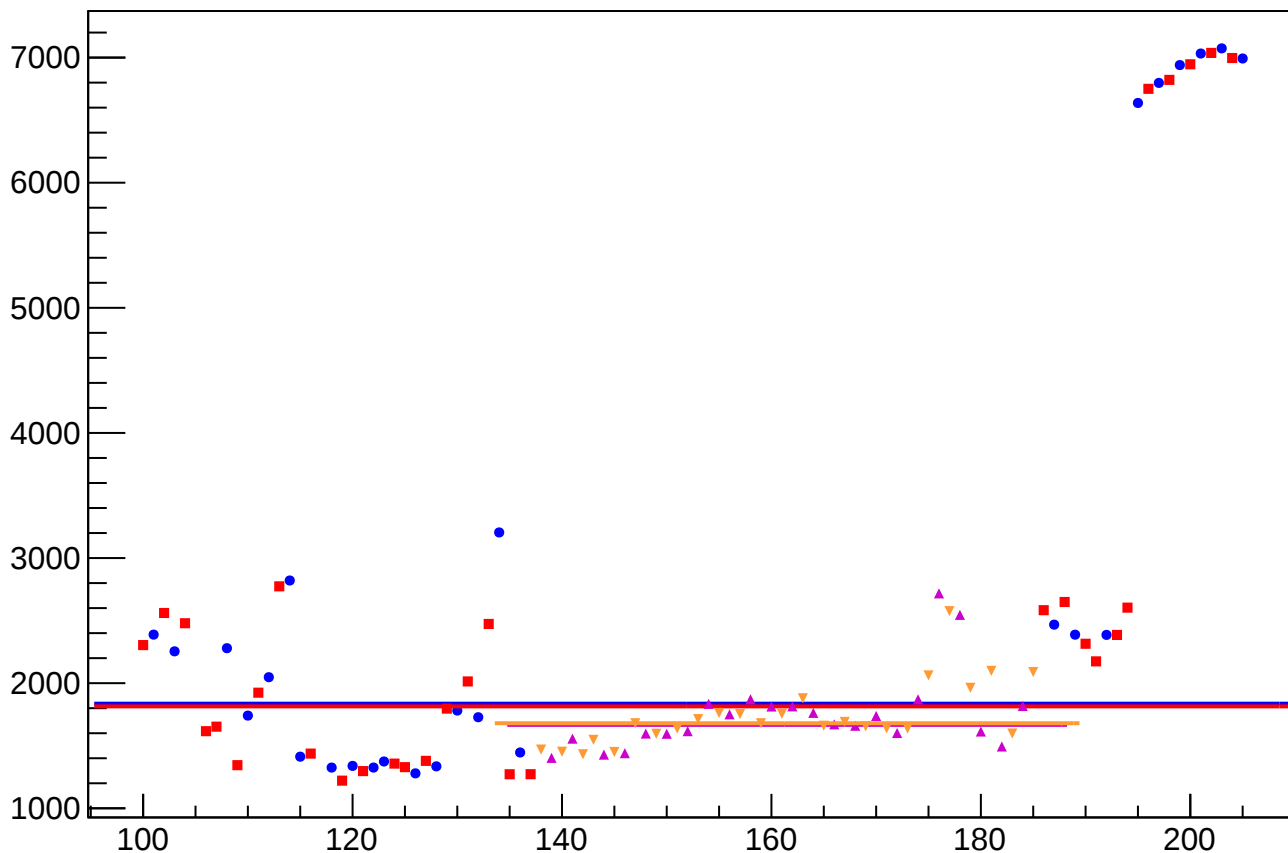
Right: 25.227 $\pm$ 0.404 χ^2 /NDF: 2706.6/55

In: -5.623 $\pm$ 0.335 χ^2 /NDF: 8202.7/48

Out: -5.498 $\pm$ 0.322 χ^2 /NDF: 3675.4/54

All: -5.558 $\pm$ 0.232 χ^2 /NDF: 11878.1/103

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1836.121+/-0.421 χ^2/NDF : 6344843.4/25

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1814.491+/-0.389 χ^2/NDF : 5784184.8/29

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

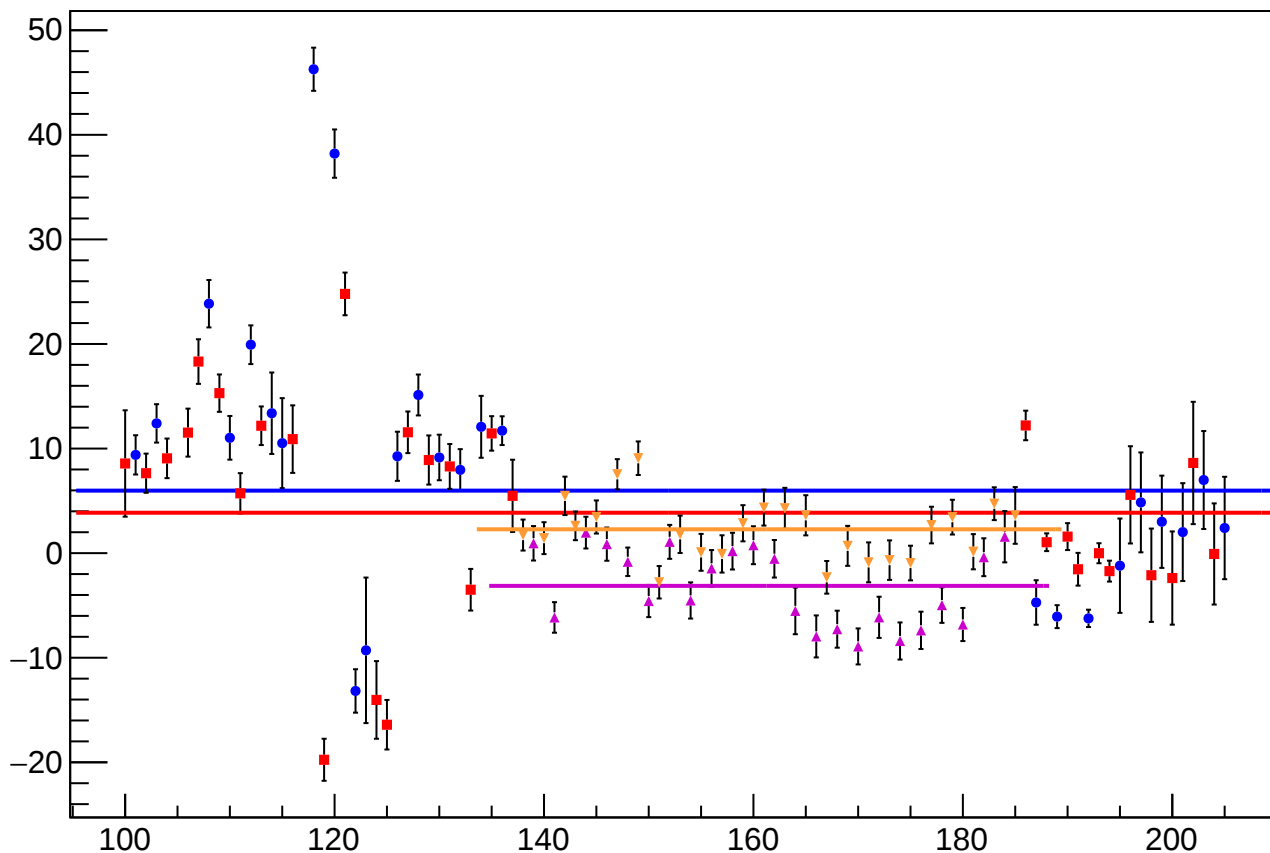
Right: 1824.447+/-0.286 χ^2/NDF : 12130450.8/55

In: 1720.443+/-0.237 χ^2/NDF : 7106175.2/48

Out: 1725.876+/-0.228 χ^2/NDF : 6385822.0/54

All: 1723.271+/-0.164 χ^2/NDF : 13492270.6/101

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.978 ± 0.395 $\chi^2/\text{NDF}: 1226.4/25$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.864 ± 0.328 $\chi^2/\text{NDF}: 648.8/29$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

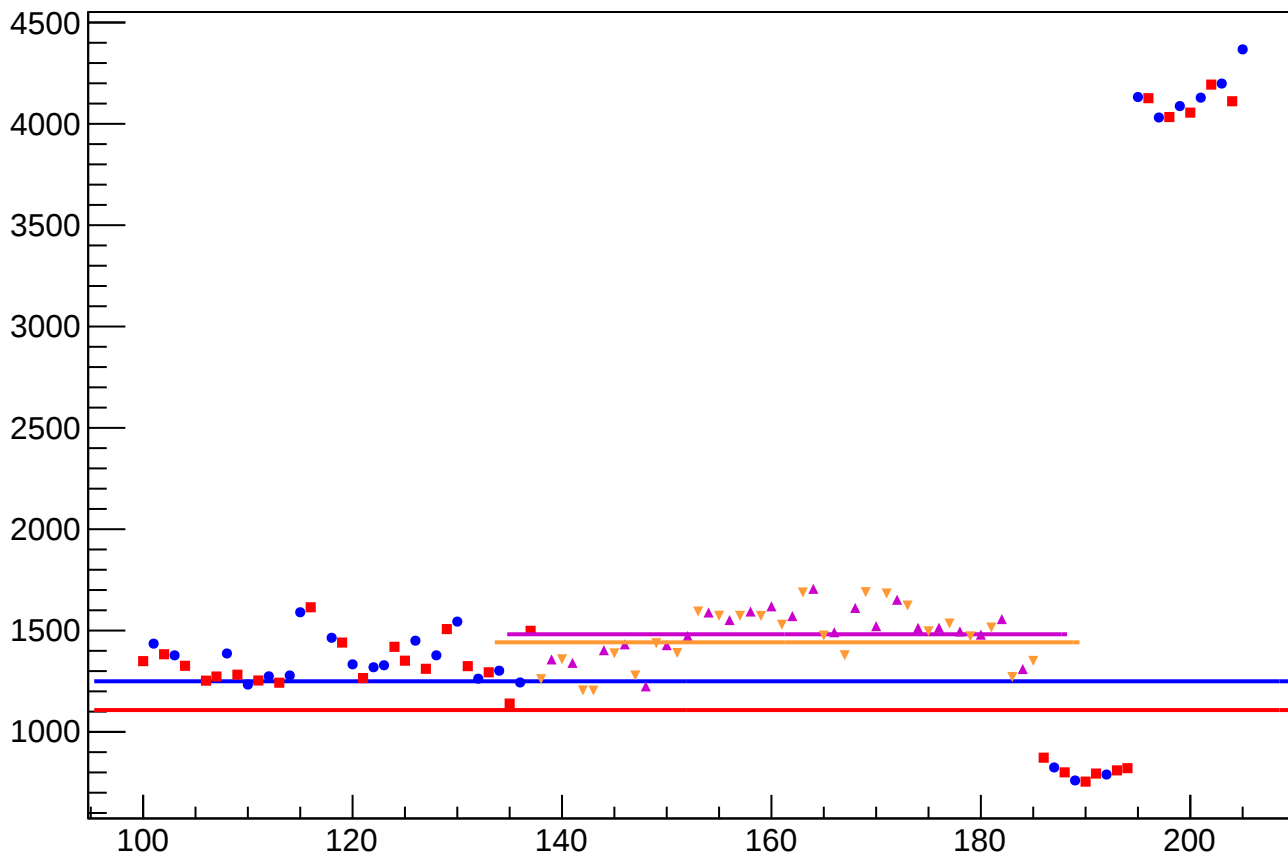
Right: 4.728 ± 0.252 $\chi^2/\text{NDF}: 1892.1/55$

In: 0.978 ± 0.265 $\chi^2/\text{NDF}: 1622.2/48$

Out: 3.096 ± 0.236 $\chi^2/\text{NDF}: 735.7/54$

All: 2.162 ± 0.176 $\chi^2/\text{NDF}: 2393.5/103$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1249.734 ± 0.279 $\chi^2/\text{NDF}: 5914055.7/25$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1107.757 ± 0.232 $\chi^2/\text{NDF}: 5241964.5/29$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

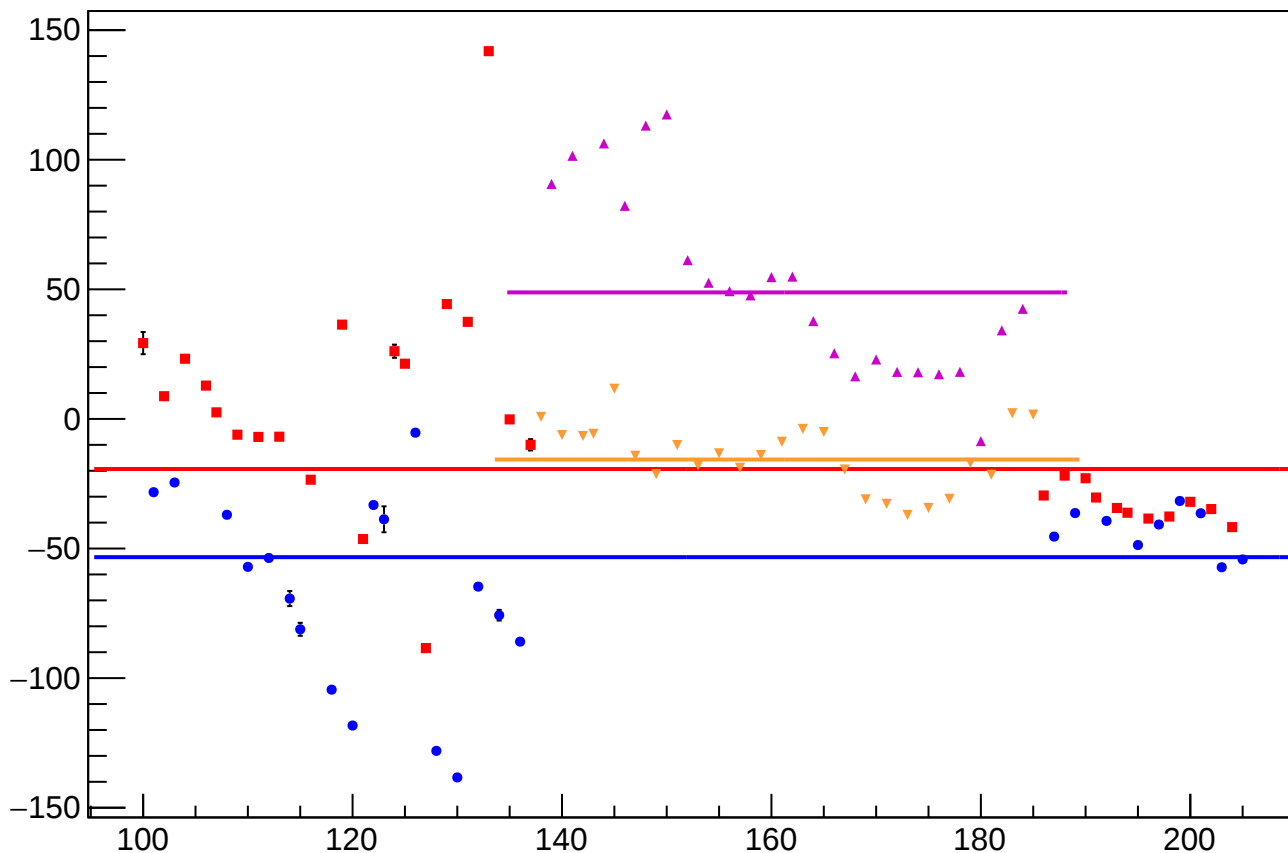
Right: 1165.789 ± 0.178 $\chi^2/\text{NDF}: 11309093.0/55$

In: 1377.090 ± 0.187 $\chi^2/\text{NDF}: 6501939.2/48$

Out: 1269.769 ± 0.167 $\chi^2/\text{NDF}: 6618485.0/54$

All: 1317.128 ± 0.124 $\chi^2/\text{NDF}: 13303699.7/101$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.330±/0.209 χ^2/NDF : 17015.0/25

Left Out: -15.666±/0.212 χ^2/NDF : 3518.1/24

Right Out: -19.323±/0.199 χ^2/NDF : 29314.5/29

Left In: 48.812±/0.220 χ^2/NDF : 25260.8/22

Left: 15.324±/0.152 χ^2/NDF : 73443.2/47

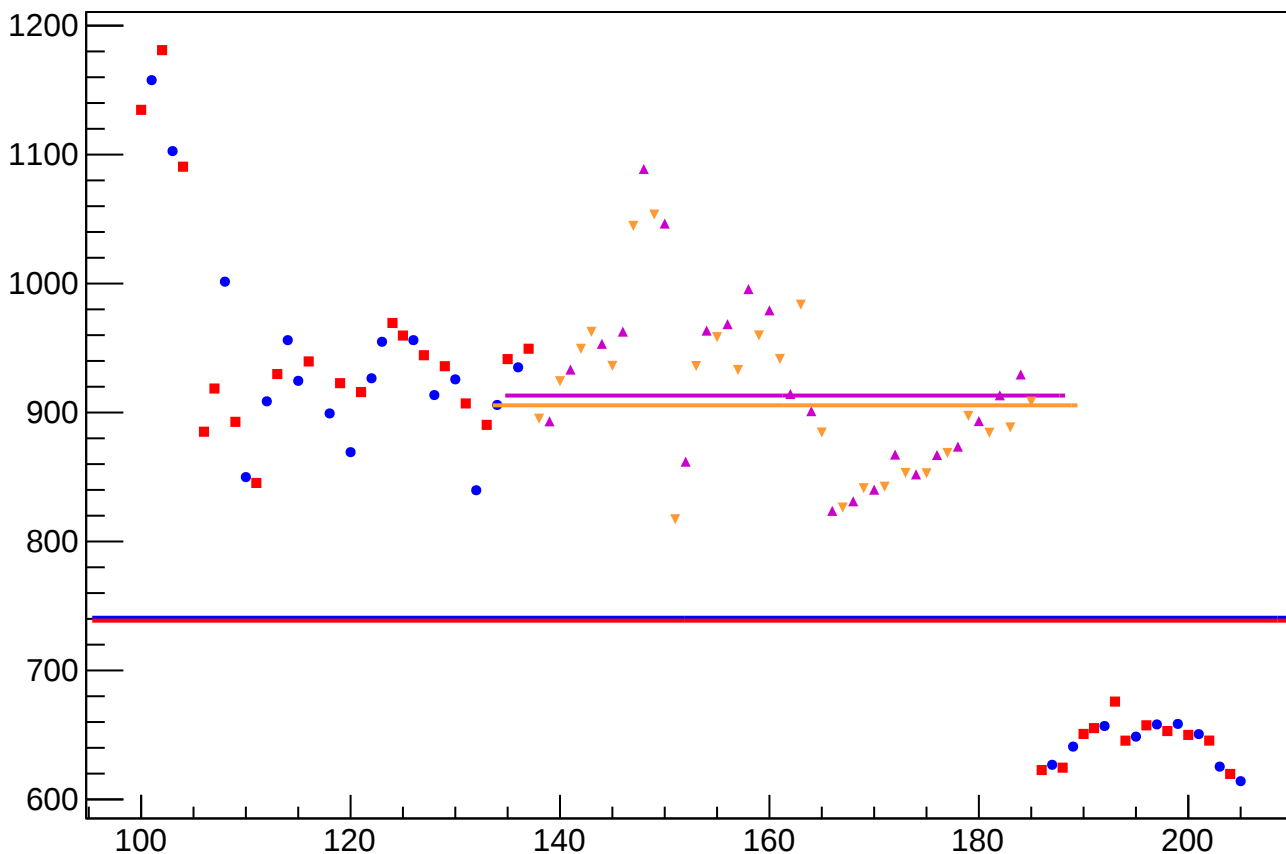
Right: -35.519±/0.144 χ^2/NDF : 60189.0/55

In: -4.835±/0.152 χ^2/NDF : 155621.6/48

Out: -17.603±/0.145 χ^2/NDF : 32990.9/54

All: -11.495±/0.105 χ^2/NDF : 192317.5/103

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 740.872 $\pm$ 0.148 χ^2 /NDF: 984363.4/25

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF: 162073.5/24

Right Out: 738.610 $\pm$ 0.141 χ^2 /NDF: 1049133.0/29

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

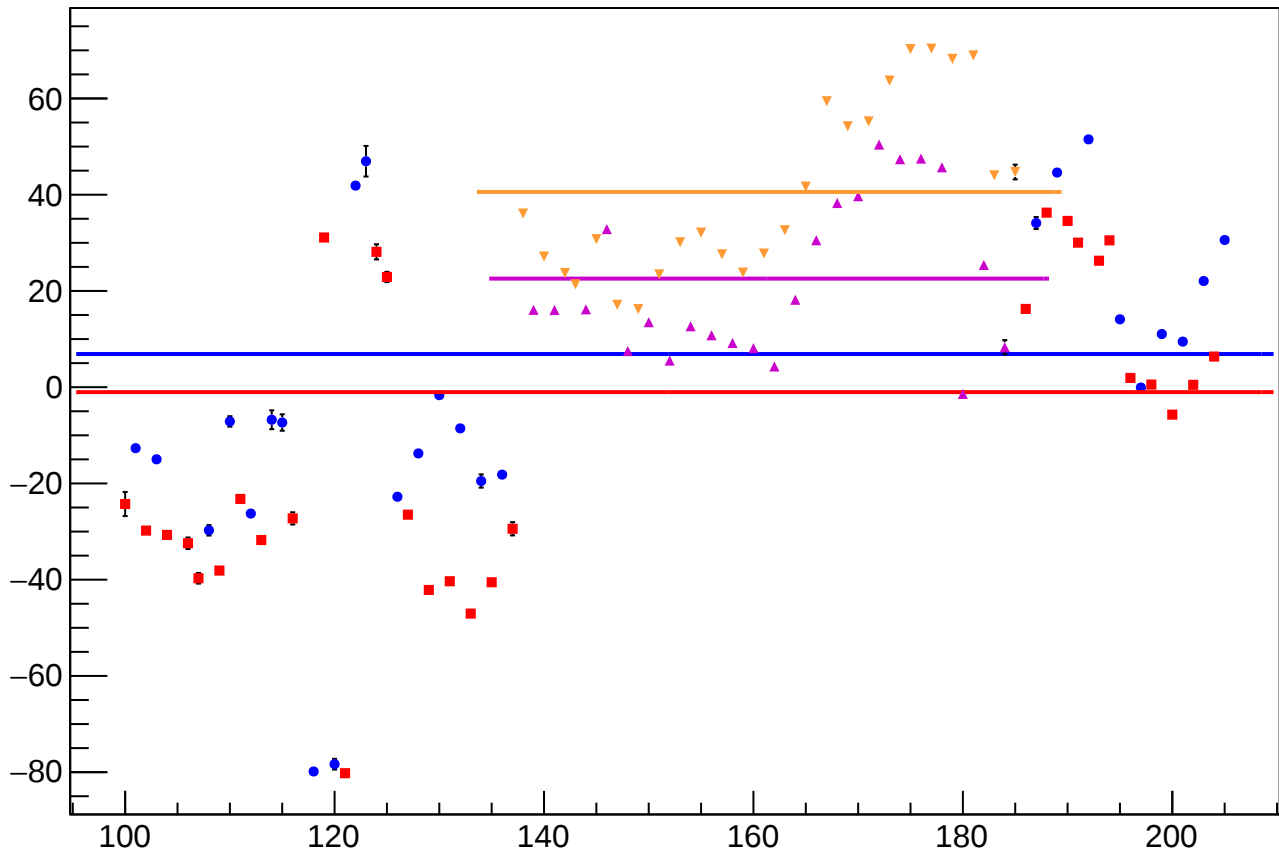
Right: 739.687 $\pm$ 0.102 χ^2 /NDF: 2033619.0/55

In: 822.673 $\pm$ 0.107 χ^2 /NDF: 1803806.6/48

Out: 817.156 $\pm$ 0.103 χ^2 /NDF: 1871214.8/54

All: 819.795 $\pm$ 0.074 χ^2 /NDF: 3676404.9/103

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 6.892 ± 0.152 χ^2/NDF : 38607.8/25

Left Out: 40.573 ± 0.168 χ^2/NDF : 12079.0/24

Right Out: -1.027 ± 0.144 χ^2/NDF : 41167.8/29

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47

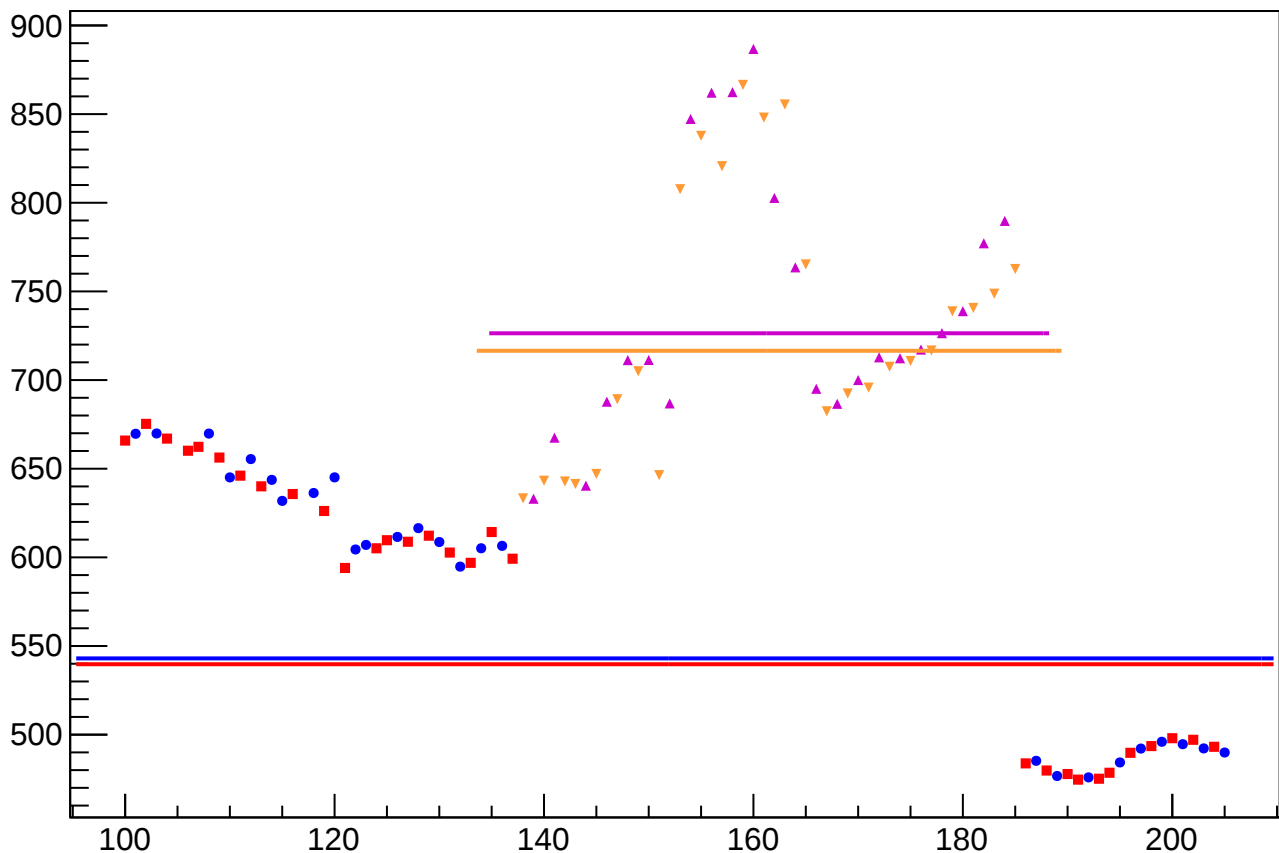
Right: 2.734 ± 0.104 χ^2/NDF : 81208.8/55

In: 13.597 ± 0.115 χ^2/NDF : 51350.7/48

Out: 16.636 ± 0.109 χ^2/NDF : 88596.0/54

All: 15.188 ± 0.079 χ^2/NDF : 140314.6/103

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 543.009 $\pm$ 0.107 χ^2 /NDF: 443600.4/25

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24

Right Out: 539.716 $\pm$ 0.102 χ^2 /NDF: 491460.9/29

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

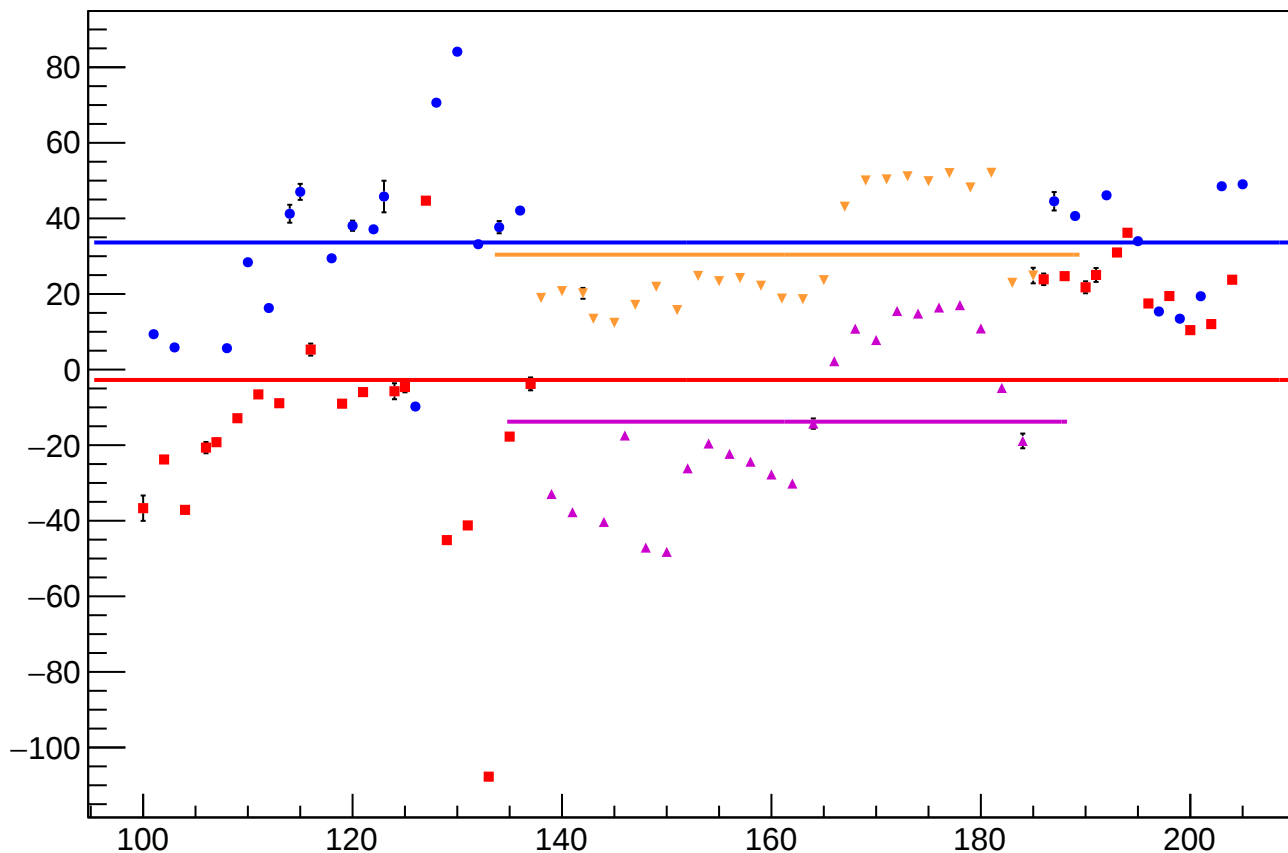
Right: 541.280 $\pm$ 0.074 χ^2 /NDF: 935557.0/55

In: 621.460 $\pm$ 0.081 χ^2 /NDF:1985984.1/48

Out: 614.784 $\pm$ 0.077 χ^2 /NDF:2111166.7/54

All: 617.965 $\pm$ 0.056 χ^2 /NDF: 4100701.5/103

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.631+/-0.234 χ^2/NDF : 7895.0/25

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -2.746+/-0.225 χ^2/NDF : 20529.9/29

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

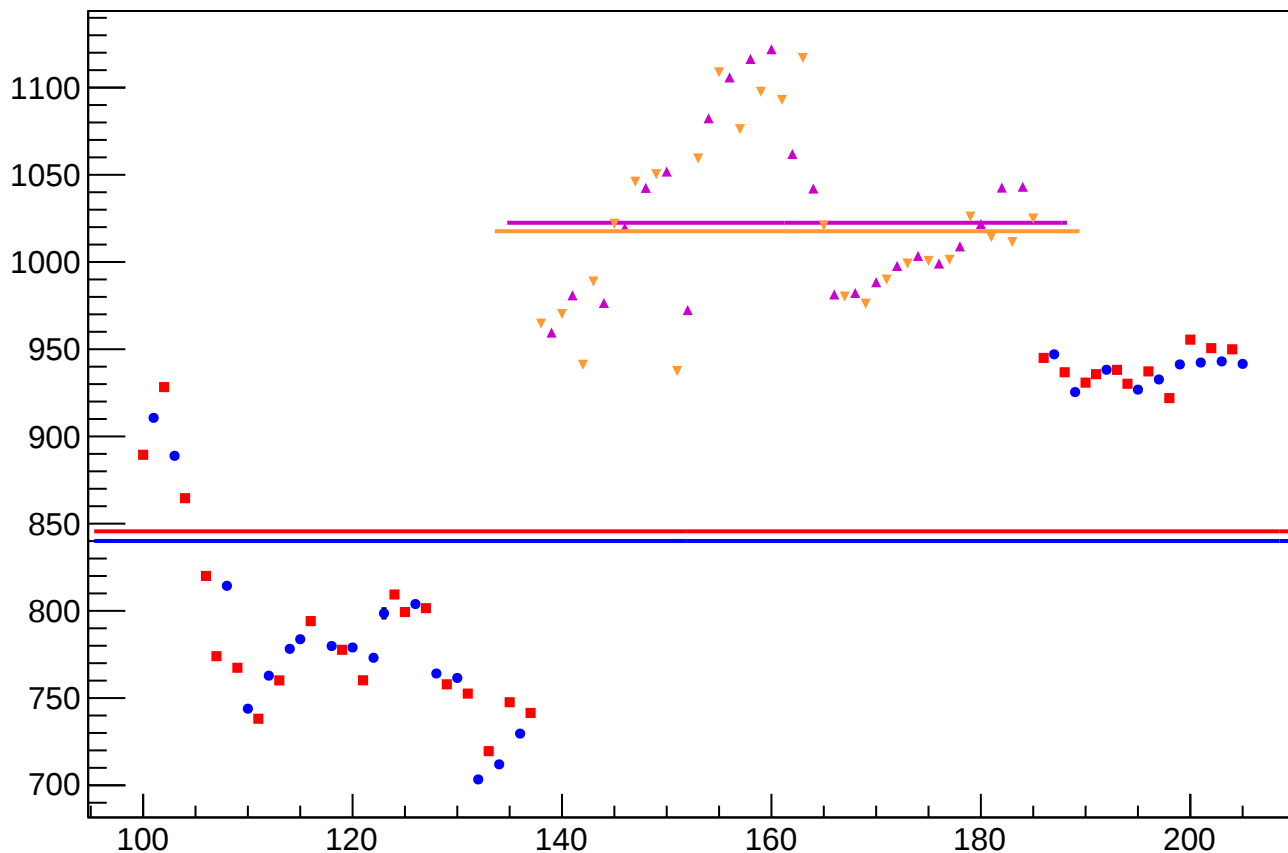
Right: 14.754+/-0.162 χ^2/NDF : 40983.4/55

In: 11.107+/-0.169 χ^2/NDF : 35407.4/48

Out: 12.953+/-0.163 χ^2/NDF : 34606.4/54

All: 12.064+/-0.118 χ^2/NDF : 70075.3/103

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 840.072 $\pm$ 0.165 χ^2 /NDF: 292593.7/25

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 845.596 $\pm$ 0.159 χ^2 /NDF: 297343.0/29

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

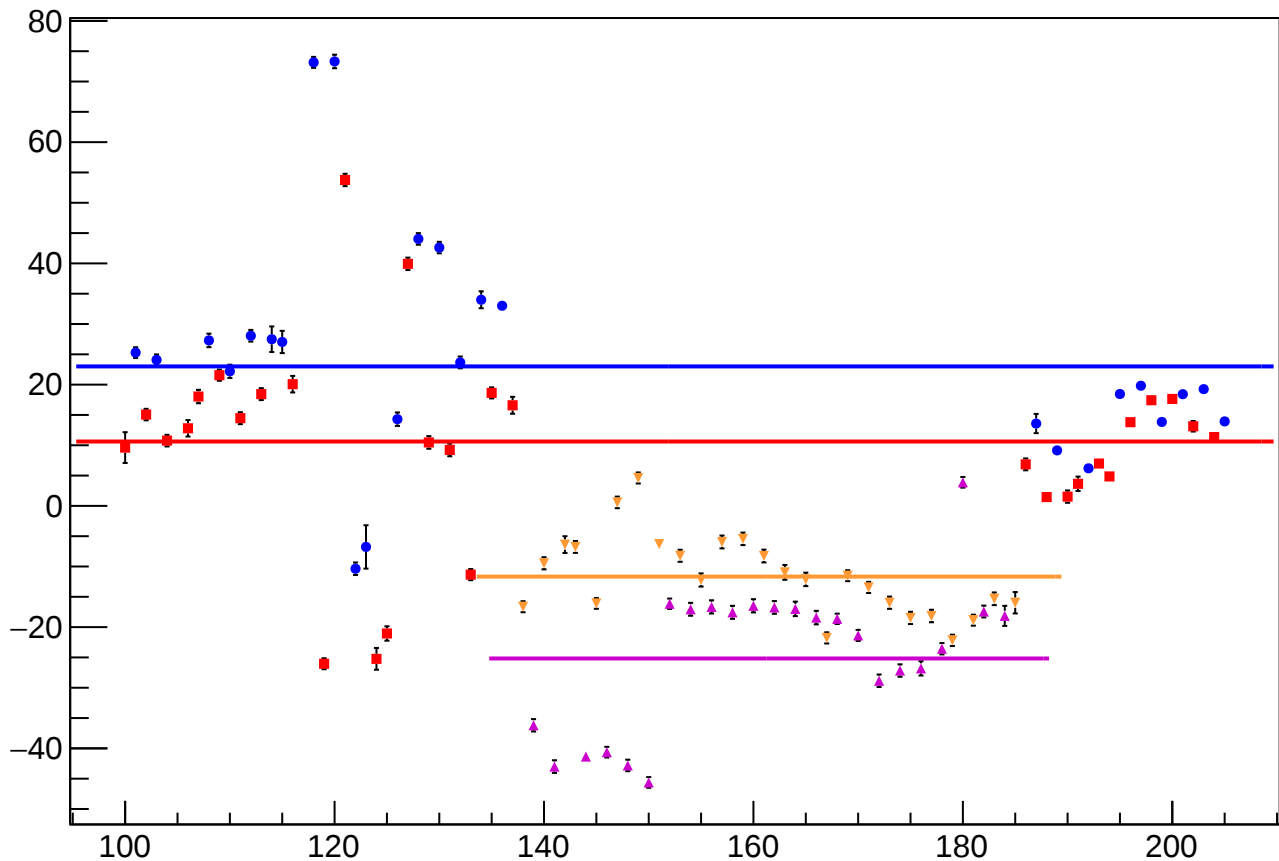
Right: 842.939 $\pm$ 0.115 χ^2 /NDF: 590515.9/55

In: 926.733 $\pm$ 0.120 χ^2 /NDF:940525.0/48

Out: 927.069 $\pm$ 0.116 χ^2 /NDF:934045.9/54

All: 926.907 $\pm$ 0.083 χ^2 /NDF: 1874575.0/103

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 23.007 $\pm$ 0.171 χ^2/NDF : 9098.8/25

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF : 1147.4/24

Right Out: 10.618 $\pm$ 0.167 χ^2/NDF : 7015.9/29

Left In: -25.174 $\pm$ 0.207 χ^2/NDF : 3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2/NDF : 7090.4/47

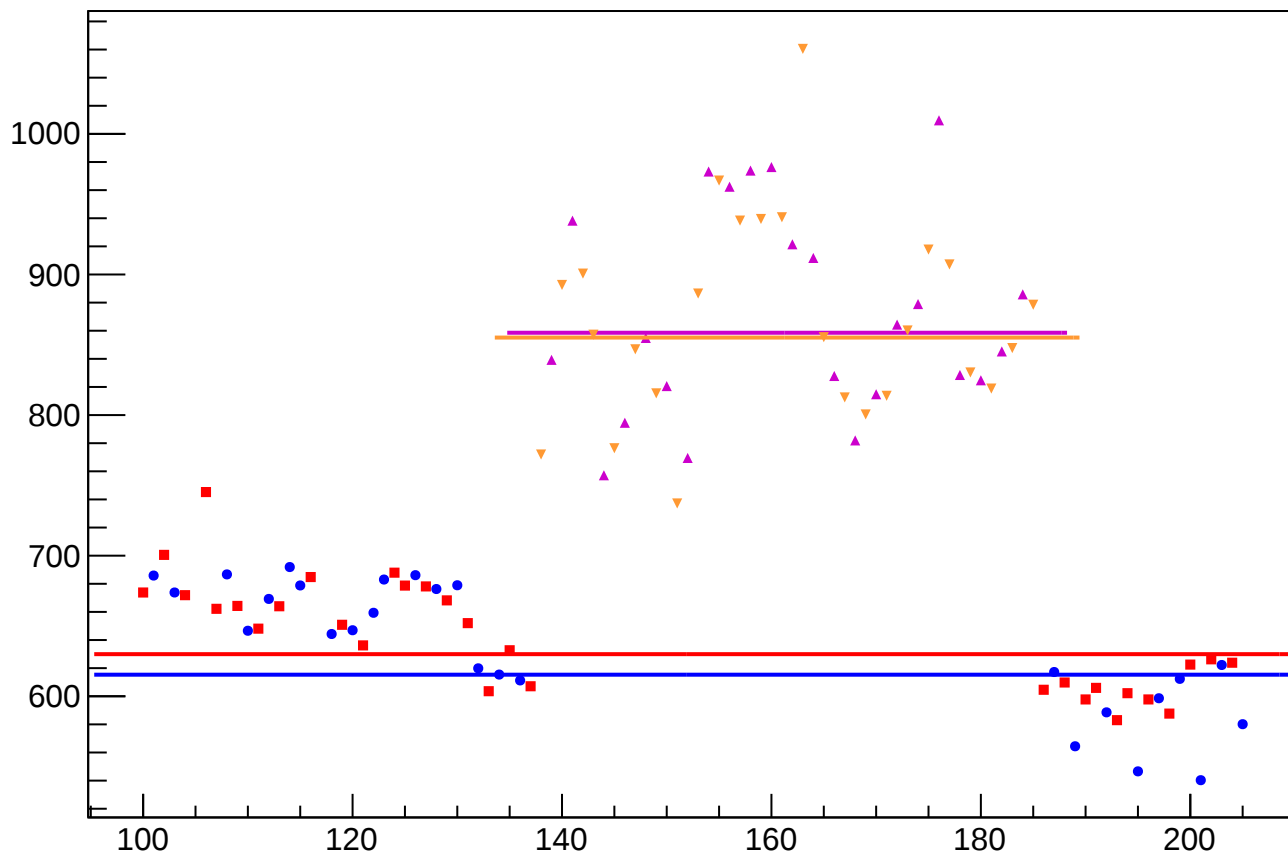
Right: 16.665 $\pm$ 0.120 χ^2/NDF : 18792.9/55

In: 3.469 $\pm$ 0.132 χ^2/NDF : 44936.6/48

Out: 1.464 $\pm$ 0.128 χ^2/NDF : 15455.6/54

All: 2.438 $\pm$ 0.092 χ^2/NDF : 60510.7/103

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 615.342 $\pm$ 0.121 χ^2/NDF : 149132.1/25

Left Out: 855.131 $\pm$ 0.142 χ^2/NDF :233746.7/24

Right Out: 629.949 $\pm$ 0.118 χ^2/NDF : 89820.2/29

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

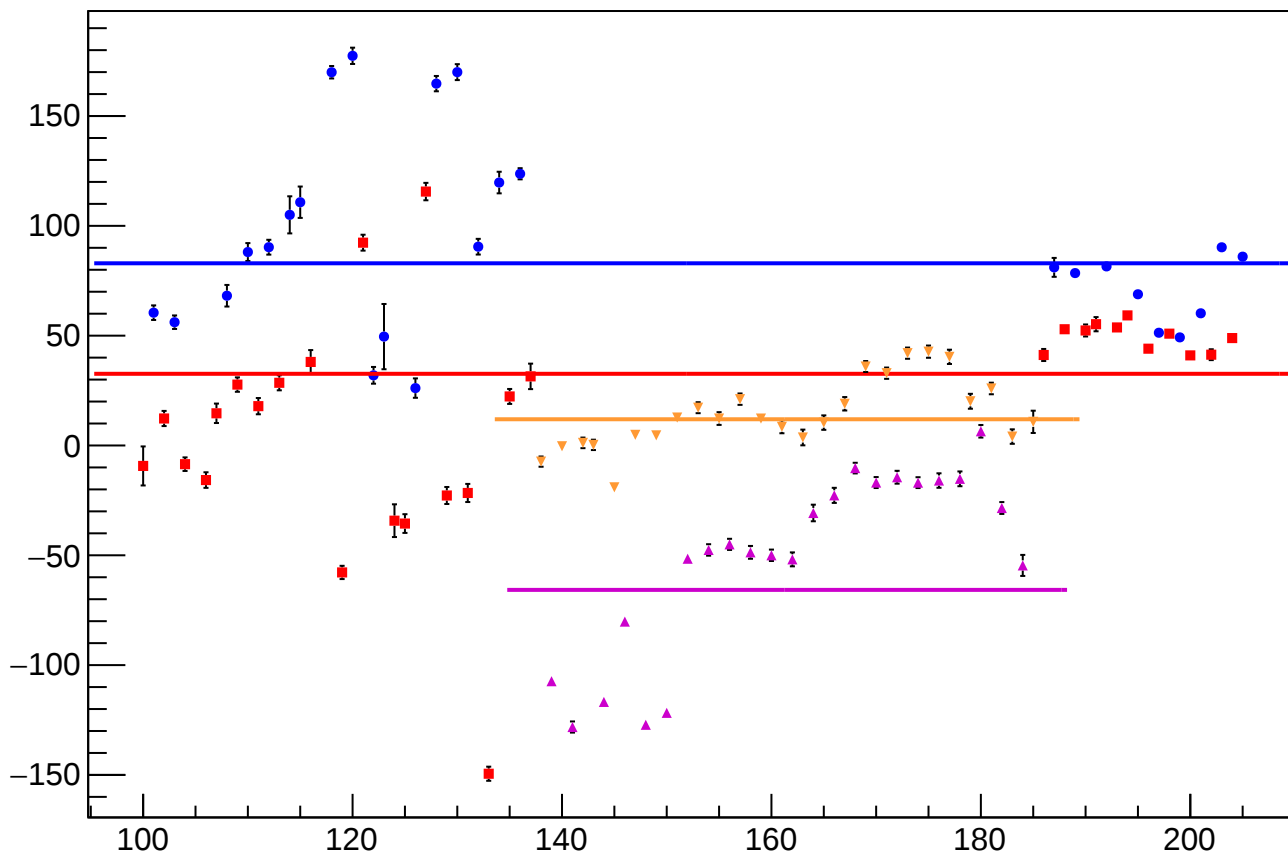
Right: 622.819 $\pm$ 0.085 χ^2/NDF : 246398.6/55

In: 713.970 $\pm$ 0.093 χ^2/NDF :2023724.1/48

Out: 722.462 $\pm$ 0.091 χ^2/NDF :1813079.9/54

All: 718.336 $\pm$ 0.065 χ^2/NDF : 3841056.2/103

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.949 ± 0.528 χ^2/NDF : 4389.1/25

Left Out: 11.938 ± 0.505 χ^2/NDF : 976.6/24

Right Out: 32.634 ± 0.511 χ^2/NDF : 6826.2/29

Left In: -65.752 ± 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 ± 0.362 χ^2/NDF : 19845.5/47

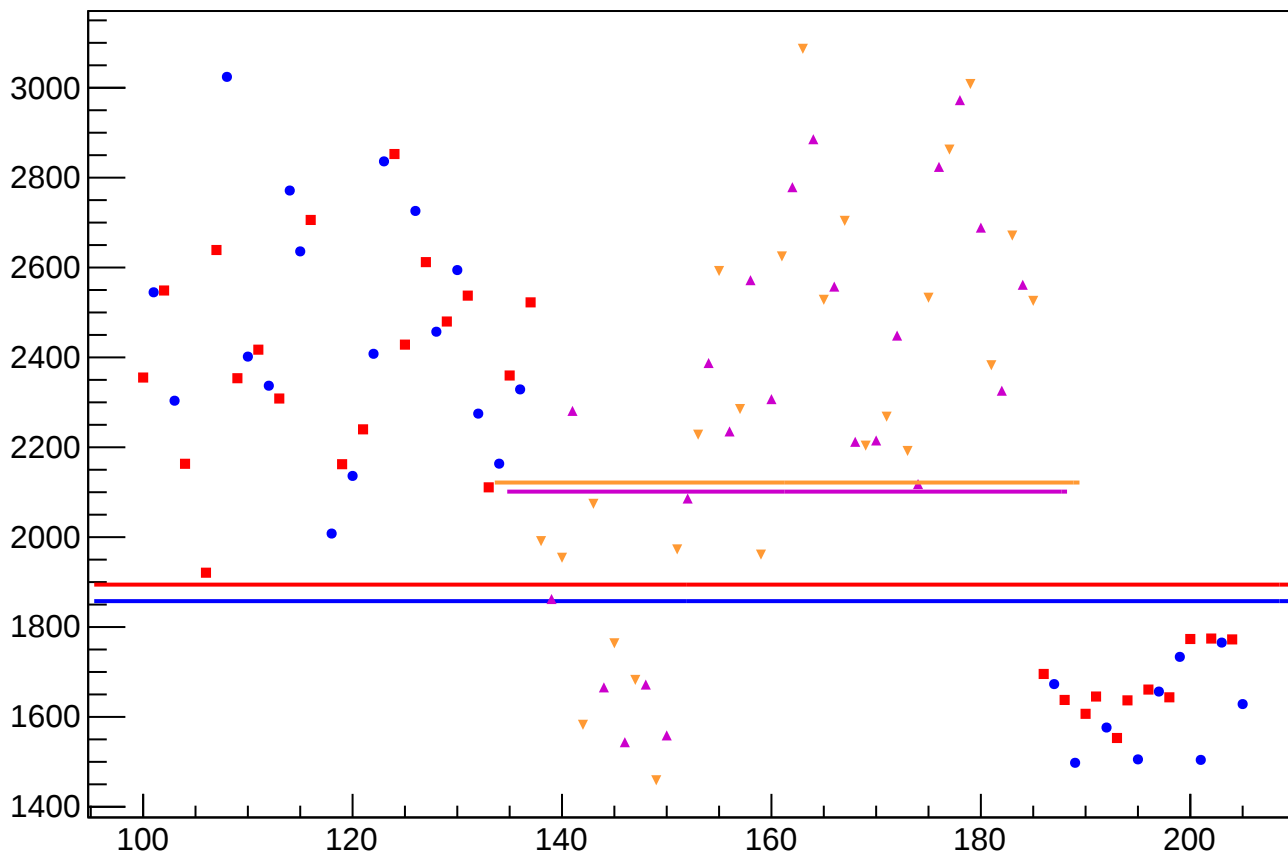
Right: 56.989 ± 0.367 χ^2/NDF : 15900.7/55

In: 7.133 ± 0.370 χ^2/NDF : 52166.0/48

Out: 22.162 ± 0.359 χ^2/NDF : 8631.6/54

All: 14.858 ± 0.258 χ^2/NDF : 61647.3/103

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1857.642 $\pm$ 0.373 χ^2/NDF : 1105561.1/25

Left Out: 2121.567 $\pm$ 0.357 χ^2/NDF :1387847.6/24

Right Out: 1894.392 $\pm$ 0.362 χ^2/NDF : 917306.6/29

Left In: 2101.325 $\pm$ 0.366 χ^2/NDF :1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2/NDF : 2749931.8/47

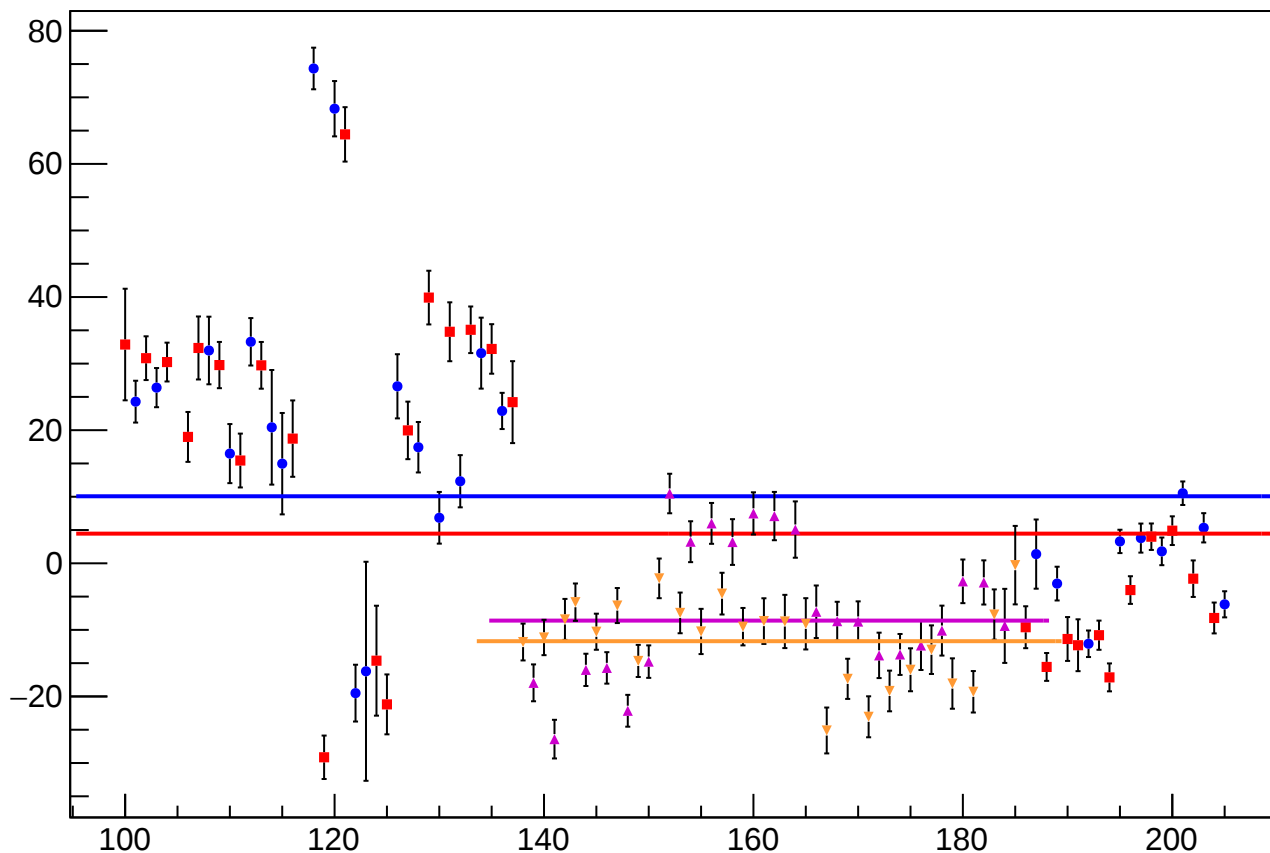
Right: 1876.604 $\pm$ 0.260 χ^2/NDF : 2027866.9/55

In: 1981.886 $\pm$ 0.261 χ^2/NDF :2683288.7/48

Out: 2009.339 $\pm$ 0.254 χ^2/NDF :2504847.1/54

All: 1995.996 $\pm$ 0.182 χ^2/NDF : 5193806.0/10

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 10.071 $\pm$ 0.573 χ^2/NDF : 1105.9/25

Left Out: -11.700 $\pm$ 0.625 χ^2/NDF : 85.0/24

Right Out: 4.458 $\pm$ 0.568 χ^2/NDF : 1321.2/29

Left In: -8.606 $\pm$ 0.642 χ^2/NDF : 264.2/22

Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47

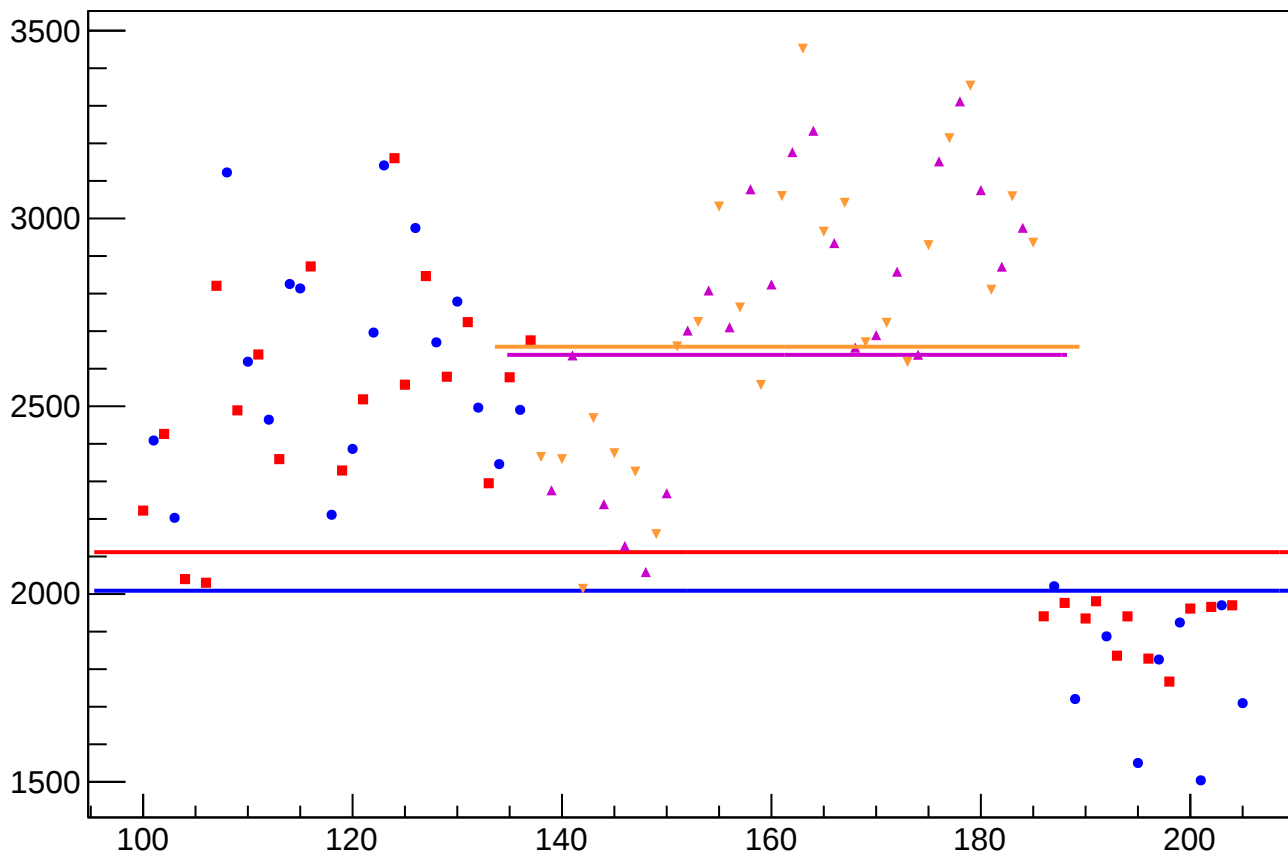
Right: 7.240 $\pm$ 0.403 χ^2/NDF : 2475.5/55

In: 1.790 $\pm$ 0.427 χ^2/NDF : 1841.3/48

Out: -2.843 $\pm$ 0.420 χ^2/NDF : 1772.1/54

All: -0.564 $\pm$ 0.300 χ^2/NDF : 3673.1/103

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2008.880 ± 0.405 χ^2/NDF : 1053594.9/25

Left Out: 2658.486 ± 0.442 χ^2/NDF : 618133.8/24

Right Out: 2111.524 ± 0.402 χ^2/NDF : 612870.5/29

Left In: 2636.885 ± 0.454 χ^2/NDF : 652894.5/22

Left: 2647.967 ± 0.317 χ^2/NDF : 1272190.1/47

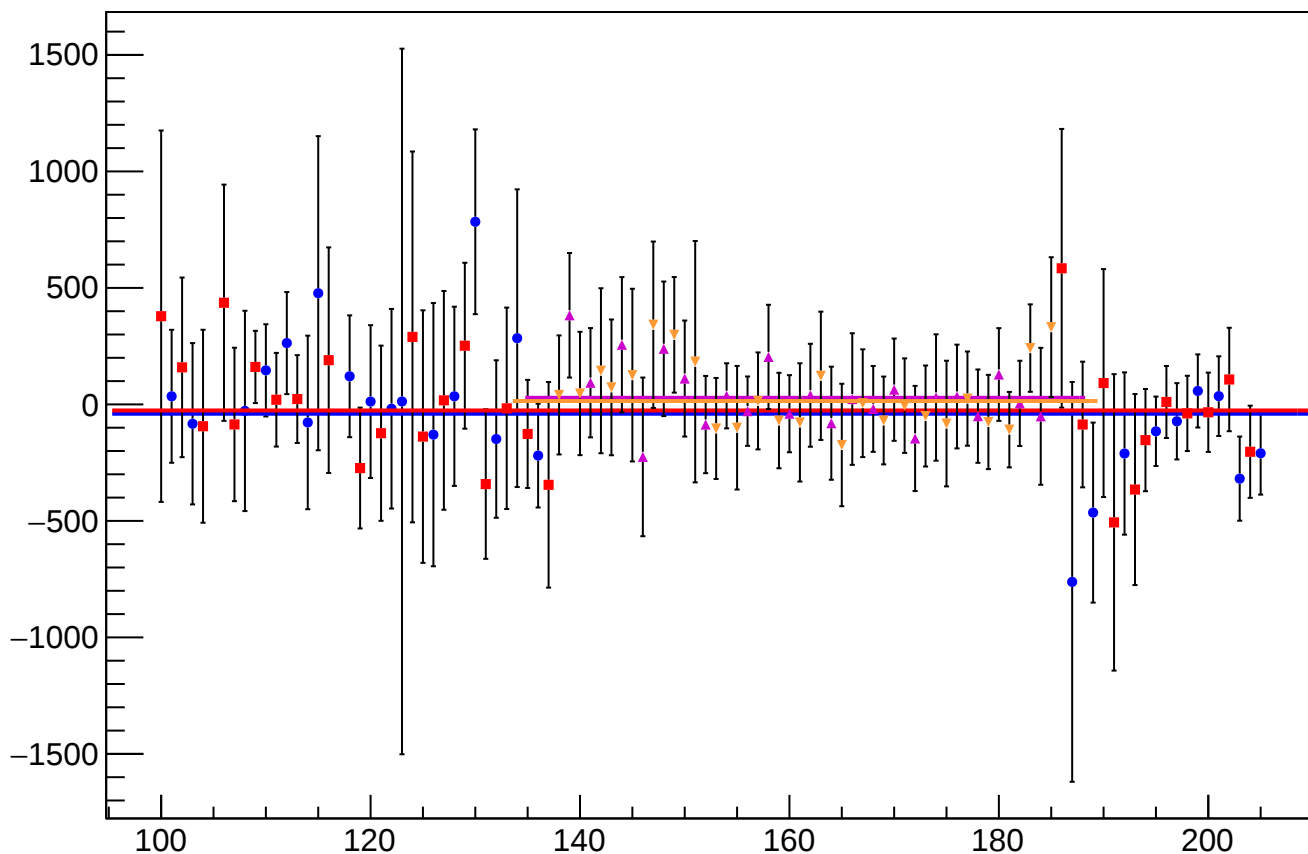
Right: 2060.656 ± 0.285 χ^2/NDF : 1698852.1/55

In: 2287.301 ± 0.302 χ^2/NDF : 2772038.0/48

Out: 2358.658 ± 0.297 χ^2/NDF : 2069466.5/54

All: 2323.569 ± 0.212 χ^2/NDF : 4869836.8/10

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -39.939 ± 50.312 χ^2/NDF : 15.6/25

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -25.986 ± 49.111 χ^2/NDF : 10.6/29

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

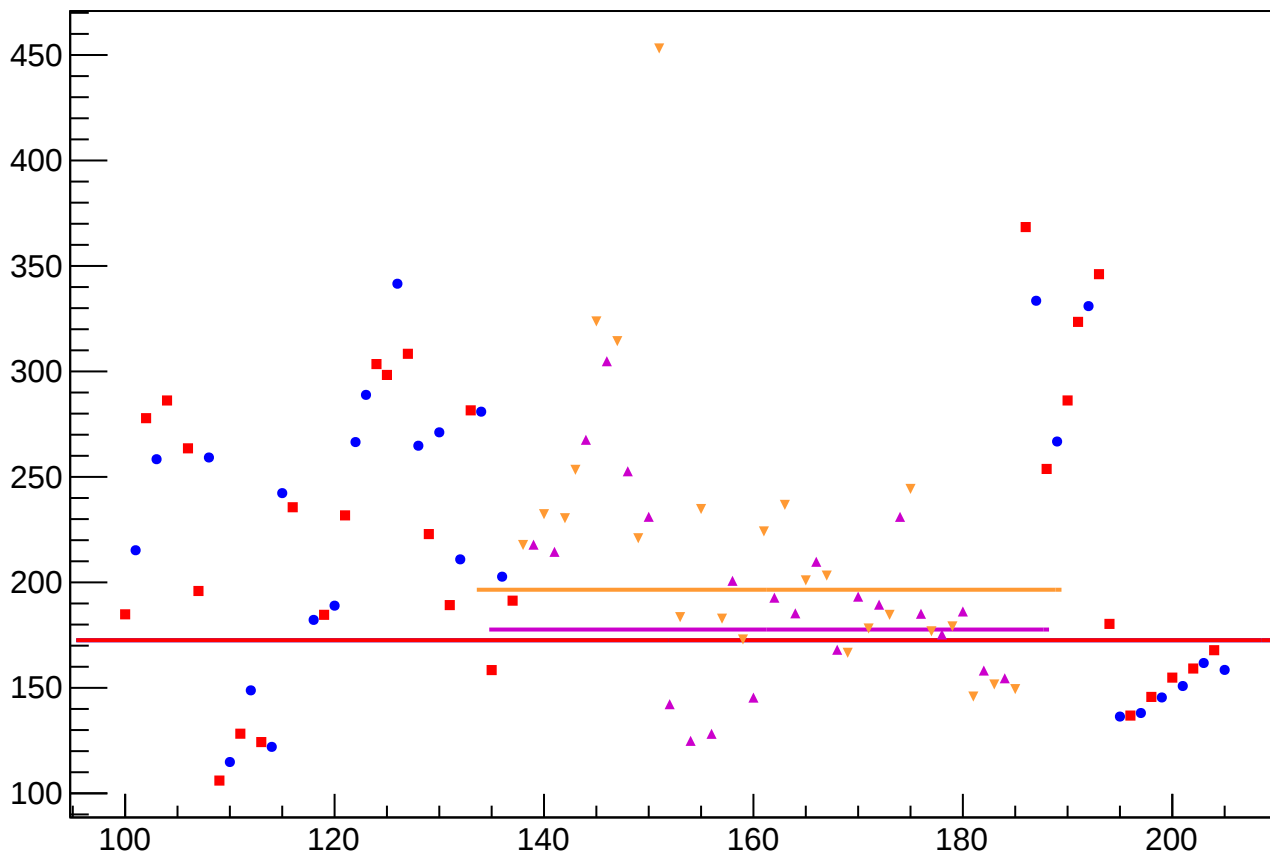
Right: -32.794 ± 35.143 χ^2/NDF : 26.2/55

In: -1.751 ± 33.391 χ^2/NDF : 22.9/48

Out: -5.070 ± 34.153 χ^2/NDF : 18.7/54

All: -3.373 ± 23.876 χ^2/NDF : 41.6/103

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.554+/-0.036 χ^2/NDF : 2075149.4/25

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 172.589+/-0.035 χ^2/NDF : 2740998.0/29

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

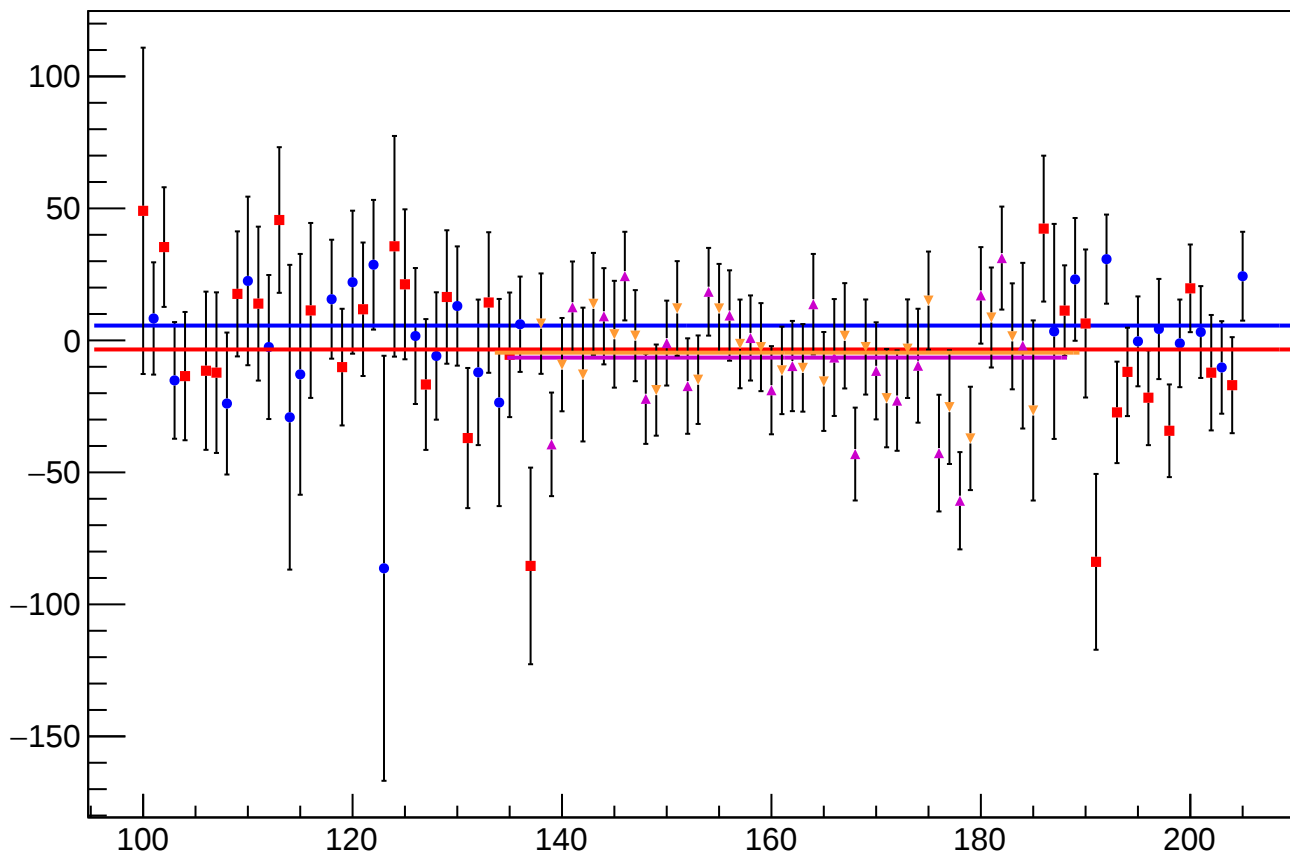
Right: 172.572+/-0.025 χ^2/NDF : 4816147.8/55

In: 175.402+/-0.024 χ^2/NDF : 3717262.5/48

Out: 184.943+/-0.024 χ^2/NDF : 4775598.7/54

All: 180.065+/-0.017 χ^2/NDF : 8572672.5/103

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.615 ± 4.471 $\chi^2/\text{NDF}: 12.2/25$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -3.436 ± 4.324 $\chi^2/\text{NDF}: 36.4/29$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

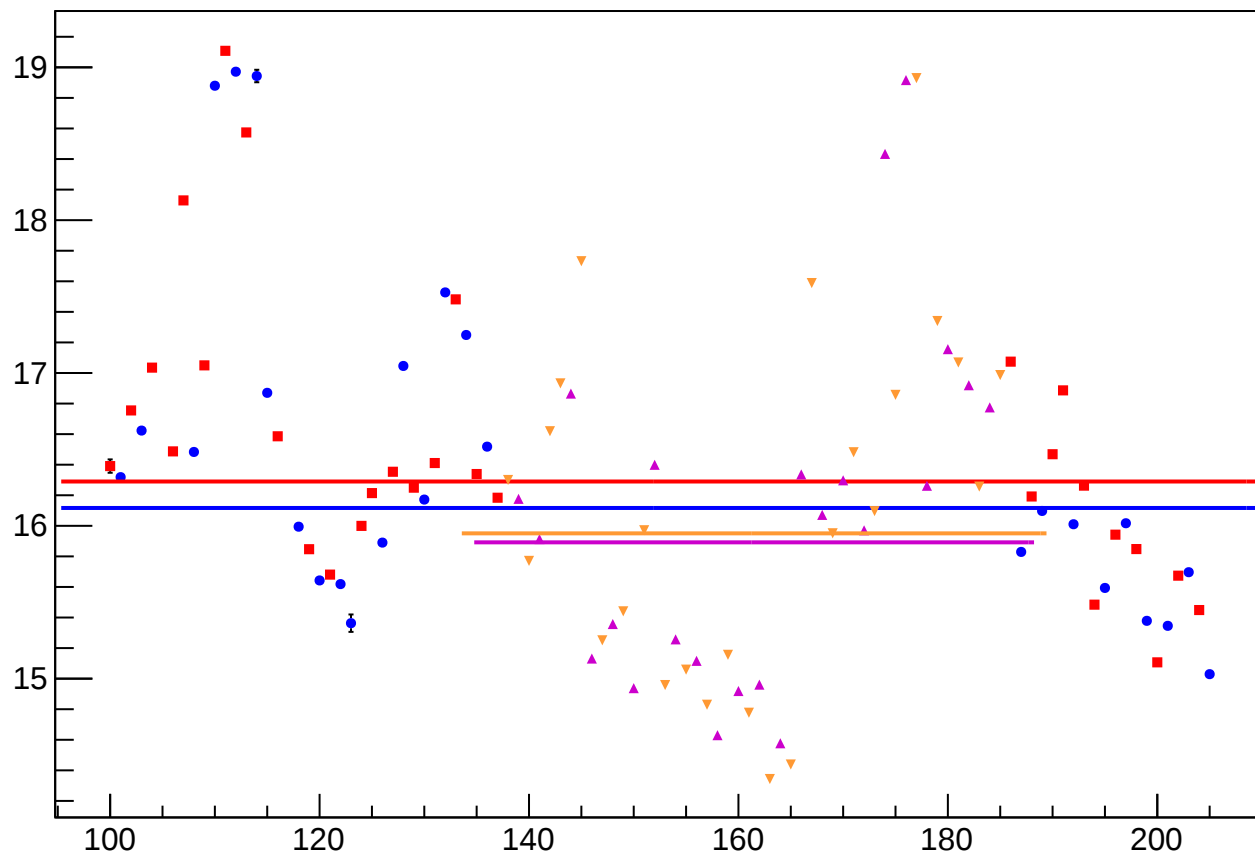
Right: 0.938 ± 3.108 $\chi^2/\text{NDF}: 50.7/55$

In: -1.392 ± 2.908 $\chi^2/\text{NDF}: 52.9/48$

Out: -4.130 ± 2.823 $\chi^2/\text{NDF}: 48.5/54$

All: -2.801 ± 2.026 $\chi^2/\text{NDF}: 101.8/103$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.117 $\pm$ 0.003 χ^2 /NDF: 76025.3/25

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.290 $\pm$ 0.003 χ^2 /NDF: 75984.8/29

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

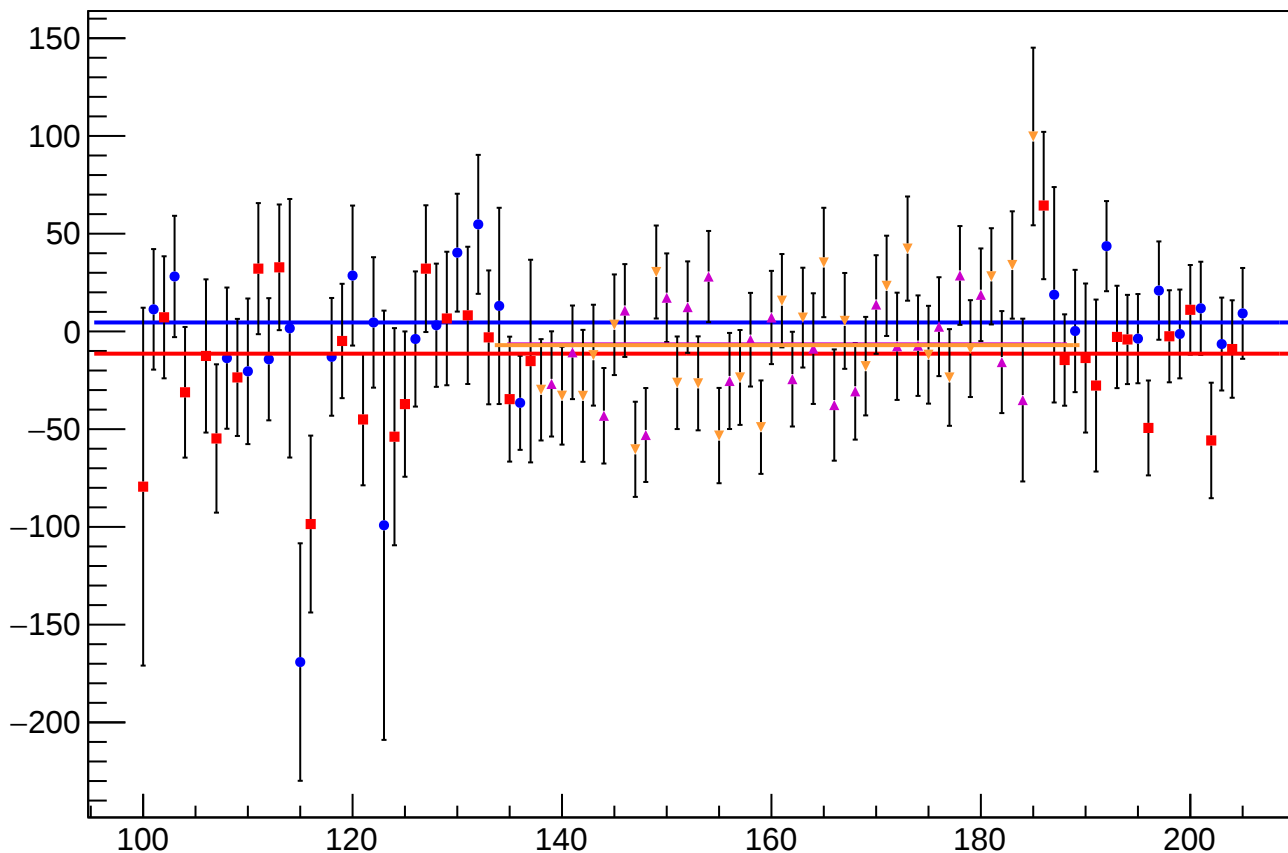
Right: 16.206 $\pm$ 0.002 χ^2 /NDF: 153560.4/55

In: 15.987 $\pm$ 0.002 χ^2 /NDF:226040.2/48

Out: 16.095 $\pm$ 0.002 χ^2 /NDF:256506.9/54

All: 16.043 $\pm$ 0.001 χ^2 /NDF: 483977.0/103

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.585 ± 5.989 $\chi^2/\text{NDF}: 21.9/25$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.382 ± 5.769 $\chi^2/\text{NDF}: 25.3/29$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

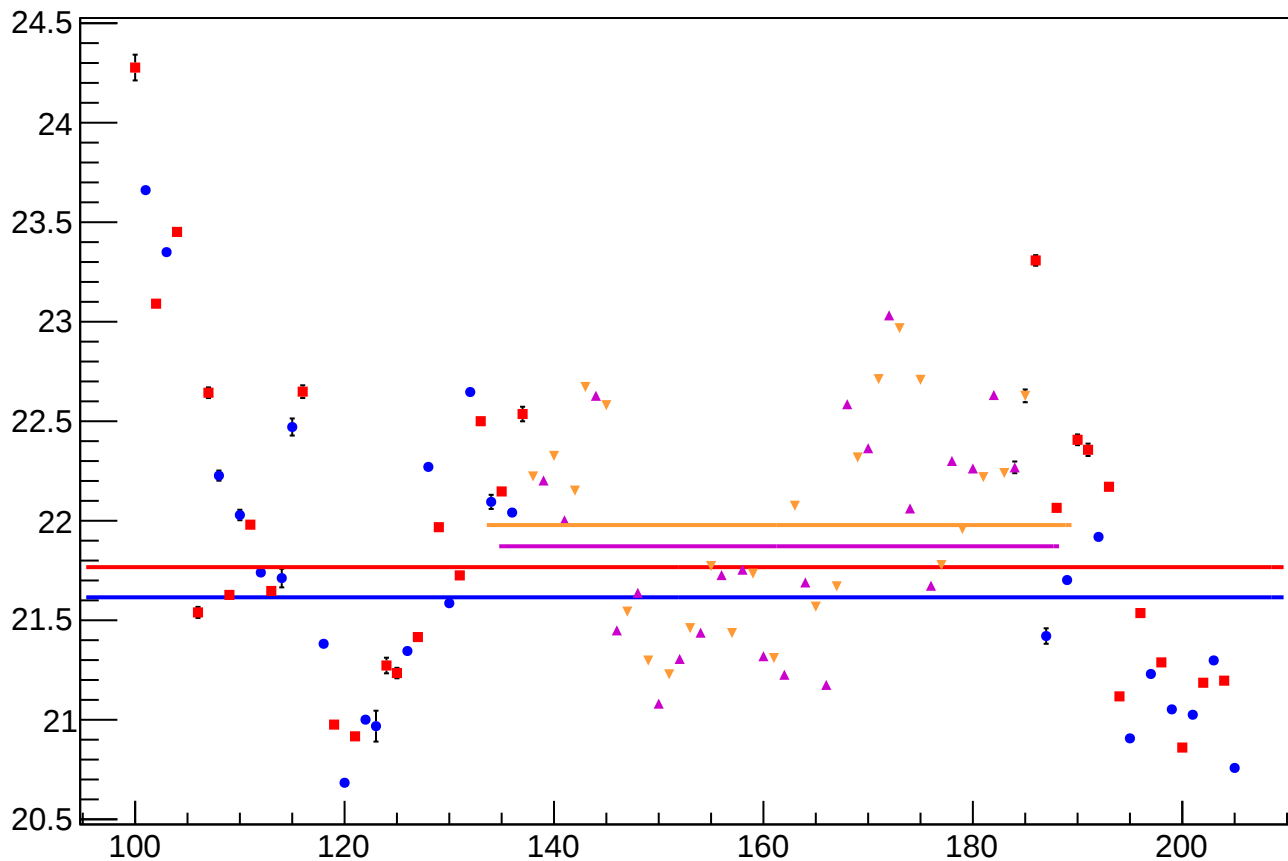
Right: -3.697 ± 4.155 $\chi^2/\text{NDF}: 50.9/55$

In: -1.745 ± 3.948 $\chi^2/\text{NDF}: 43.0/48$

Out: -8.941 ± 3.830 $\chi^2/\text{NDF}: 63.1/54$

All: -5.452 ± 2.749 $\chi^2/\text{NDF}: 107.8/103$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.615 $\pm$ 0.004 χ^2 /NDF: 30326.7/25

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 21.767 $\pm$ 0.004 χ^2 /NDF: 30120.7/29

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

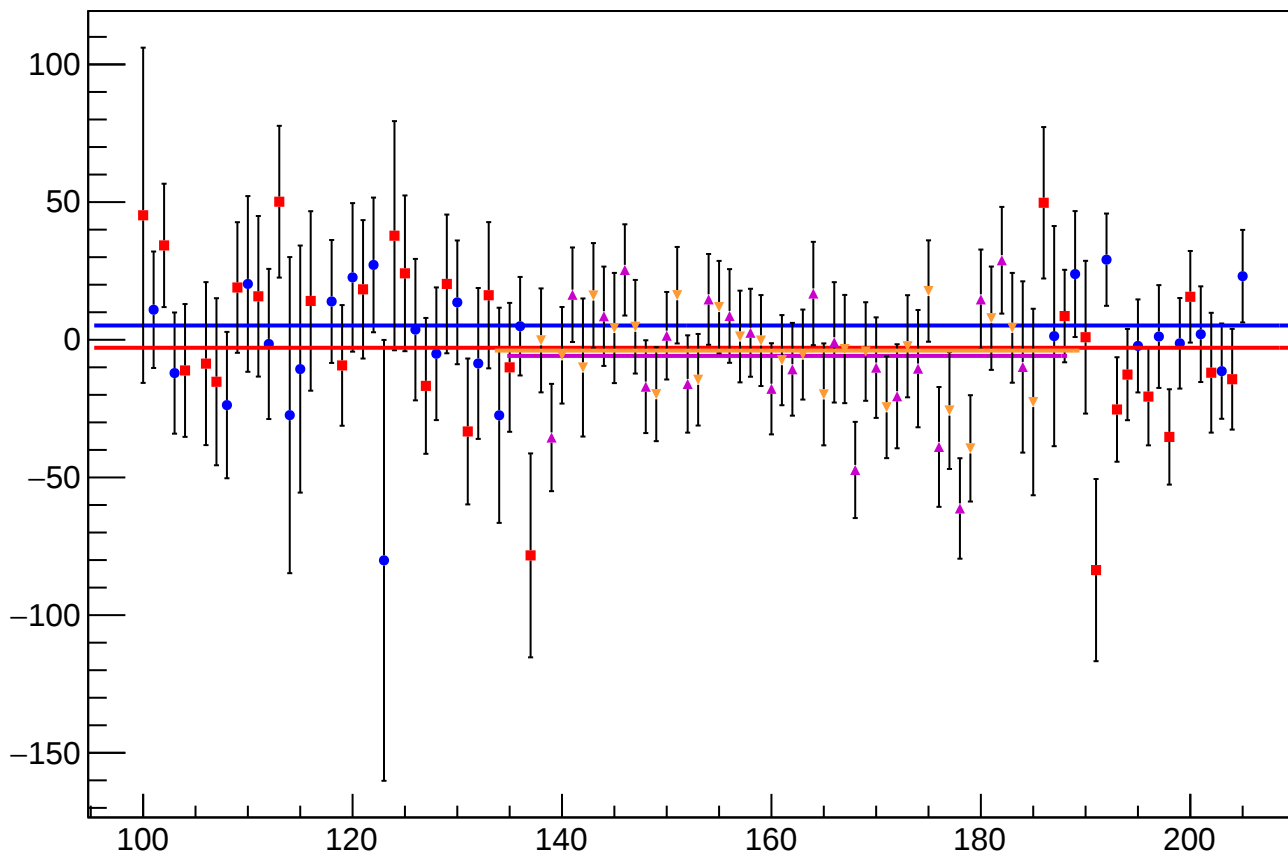
Right: 21.694 $\pm$ 0.003 χ^2 /NDF: 61111.8/55

In: 21.760 $\pm$ 0.003 χ^2 /NDF:52924.0/48

Out: 21.885 $\pm$ 0.003 χ^2 /NDF:51053.3/54

All: 21.825 $\pm$ 0.002 χ^2 /NDF: 105007.8/103

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.185 ± 4.439 $\chi^2/\text{NDF}: 11.6/25$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -2.902 ± 4.293 $\chi^2/\text{NDF}: 37.0/29$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

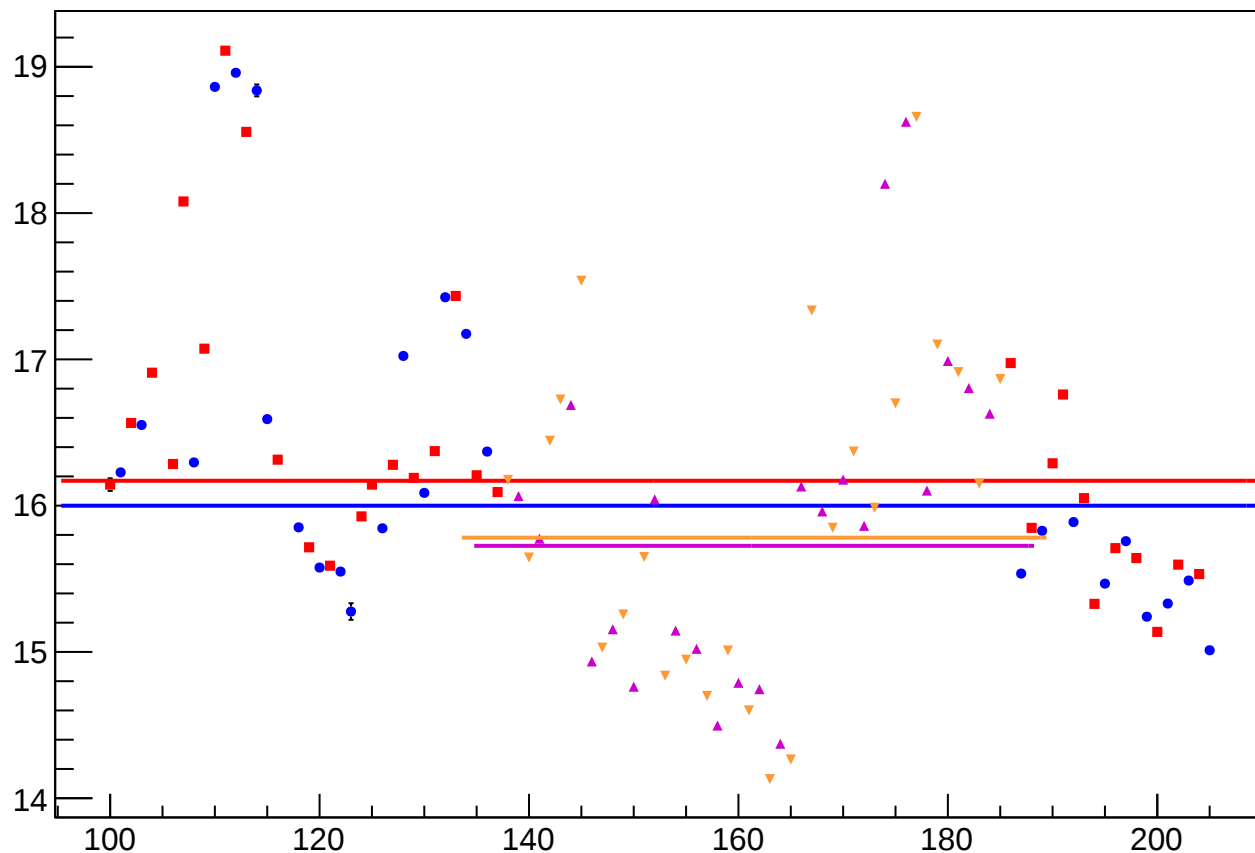
Right: 1.006 ± 3.086 $\chi^2/\text{NDF}: 50.3/55$

In: -1.208 ± 2.881 $\chi^2/\text{NDF}: 51.4/48$

Out: -3.492 ± 2.797 $\chi^2/\text{NDF}: 51.0/54$

All: -2.384 ± 2.007 $\chi^2/\text{NDF}: 102.7/103$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.000 $\pm$ 0.003 χ^2 /NDF: 78541.8/25

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.170 $\pm$ 0.003 χ^2 /NDF: 78503.4/29

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47

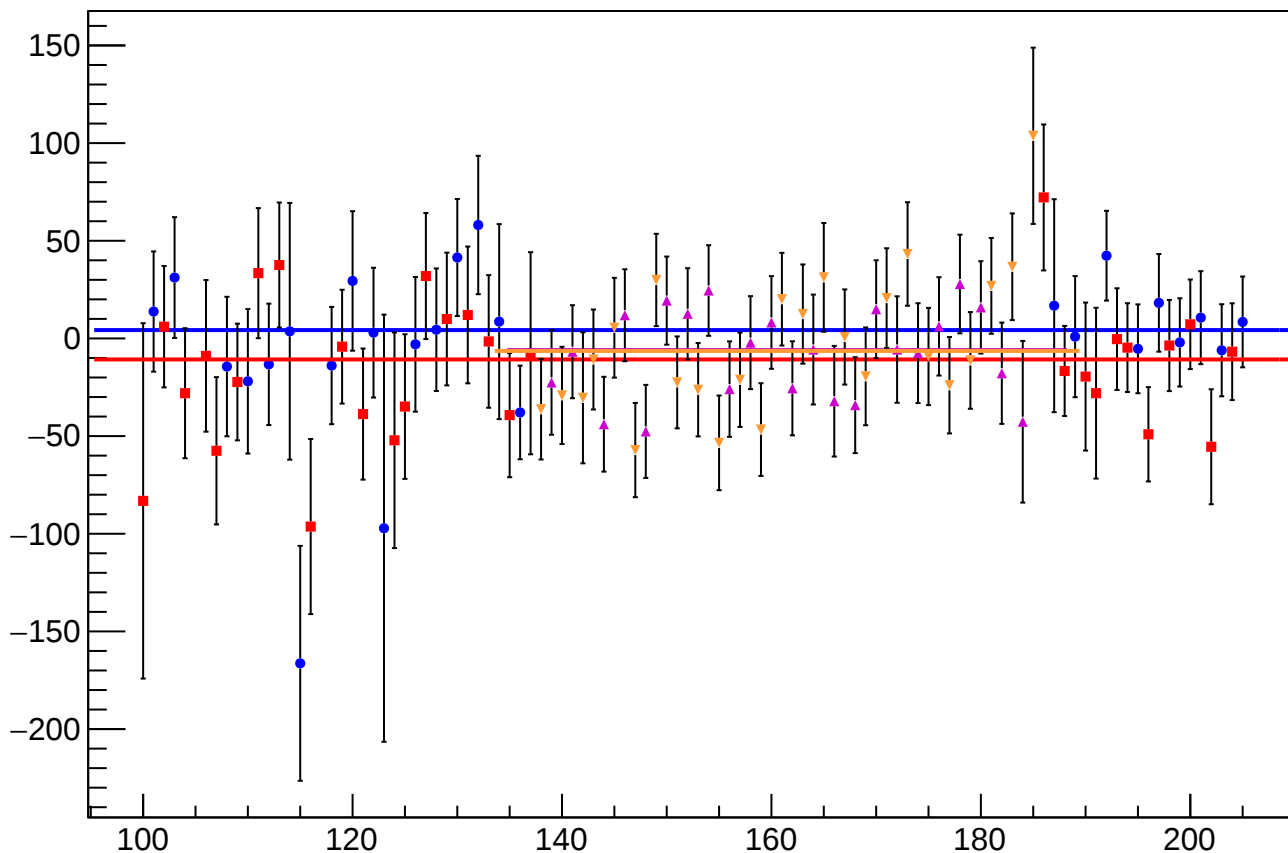
Right: 16.088 $\pm$ 0.002 χ^2 /NDF: 158572.0/55

In: 15.841 $\pm$ 0.002 χ^2 /NDF:228790.8/48

Out: 15.946 $\pm$ 0.002 χ^2 /NDF:260845.6/54

All: 15.895 $\pm$ 0.001 χ^2 /NDF: 491018.2/103

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.273 ± 5.961 χ^2/NDF : 22.4/25

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: -10.764 ± 5.737 χ^2/NDF : 26.7/29

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -6.196 ± 3.646 χ^2/NDF : 55.9/47

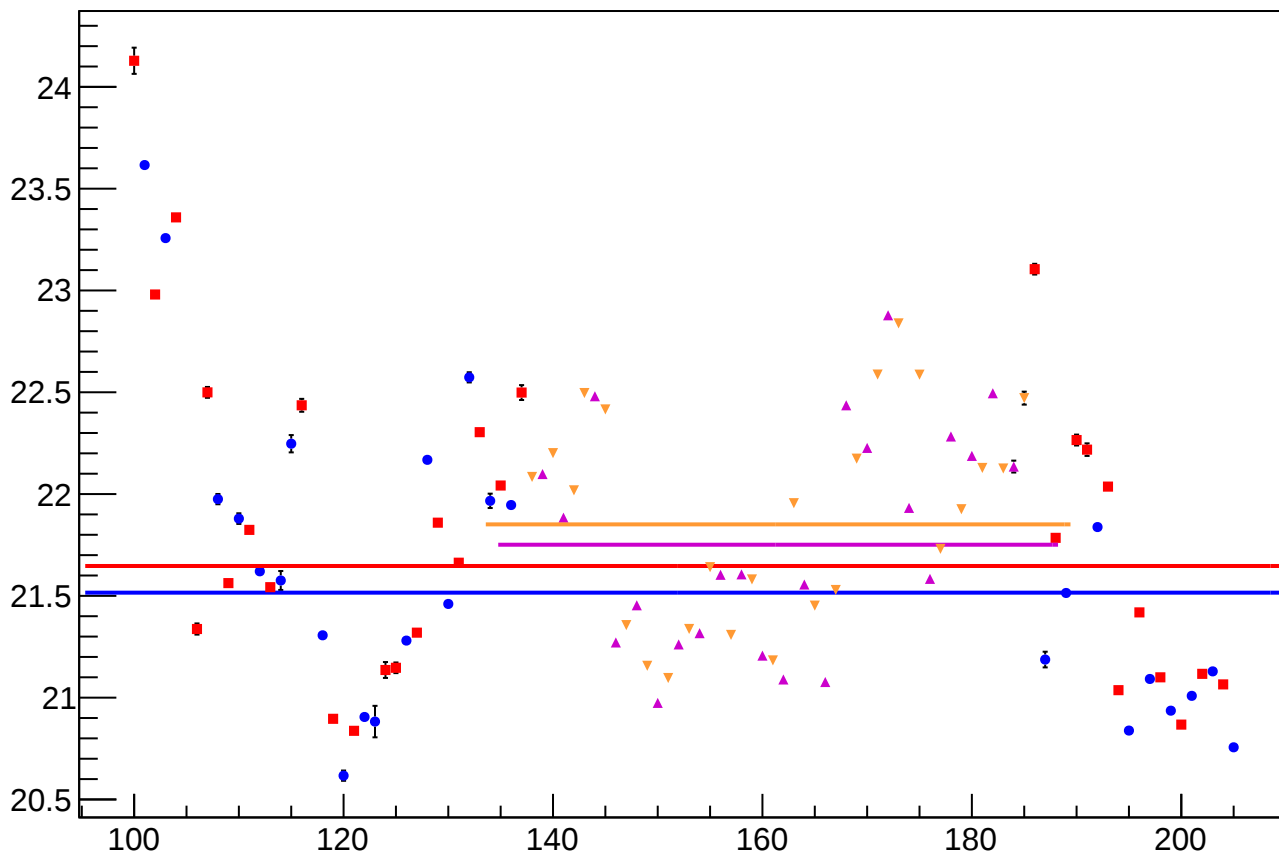
Right: -3.534 ± 4.134 χ^2/NDF : 52.4/55

In: -1.527 ± 3.928 χ^2/NDF : 42.6/48

Out: -8.325 ± 3.808 χ^2/NDF : 64.4/54

All: -5.031 ± 2.734 χ^2/NDF : 108.6/103

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Left: 21.802 ± 0.003 $\chi^2/\text{NDF}: 40523.6/47$

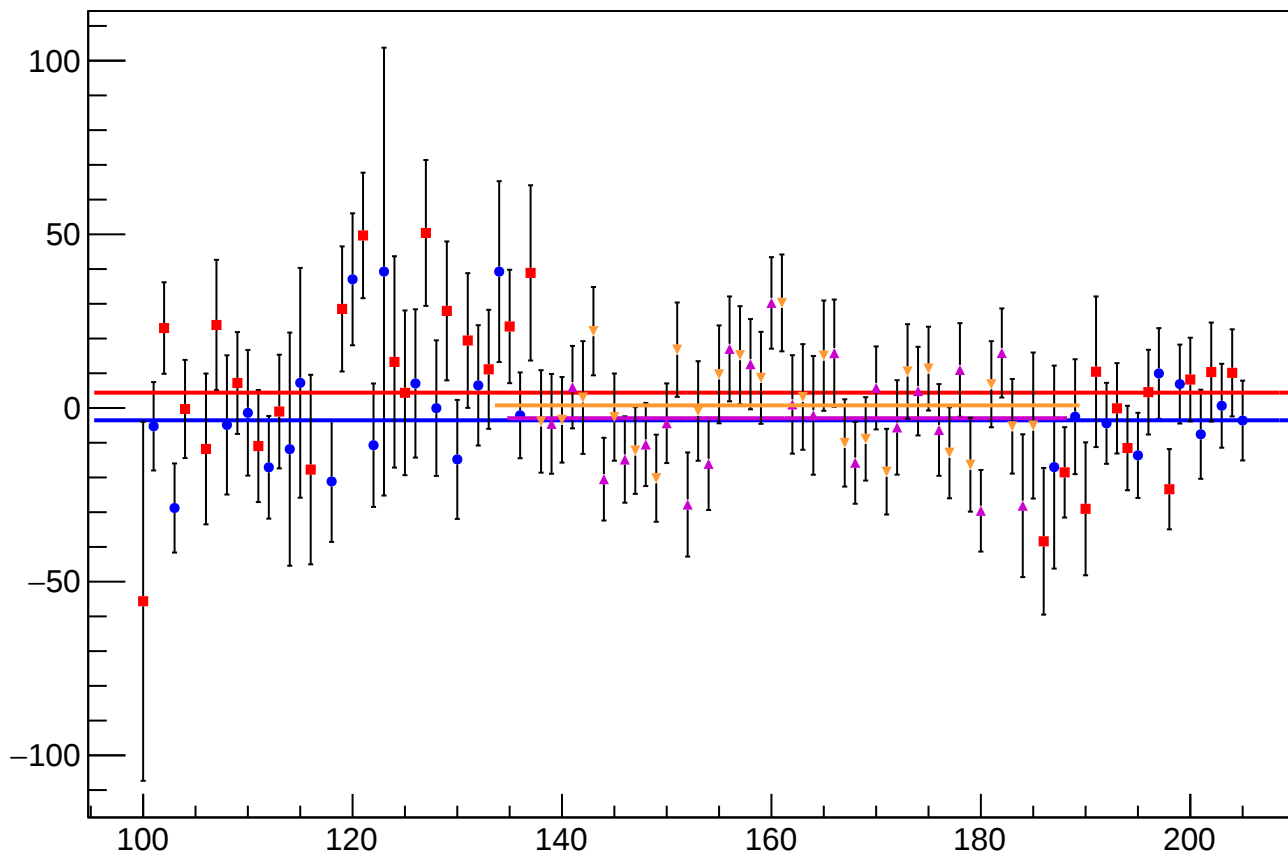
Right: 21.584 ± 0.003 $\chi^2/\text{NDF}: 58847.1/55$

In: 21.649 ± 0.003 $\chi^2/\text{NDF}: 52170.4/48$

Out: 21.761 ± 0.003 $\chi^2/\text{NDF}: 49509.0/54$

All: 21.707 ± 0.002 $\chi^2/\text{NDF}: 102519.3/103$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.542 ± 3.068 $\chi^2/\text{NDF}: 17.9/25$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.415 ± 2.976 $\chi^2/\text{NDF}: 43.6/29$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

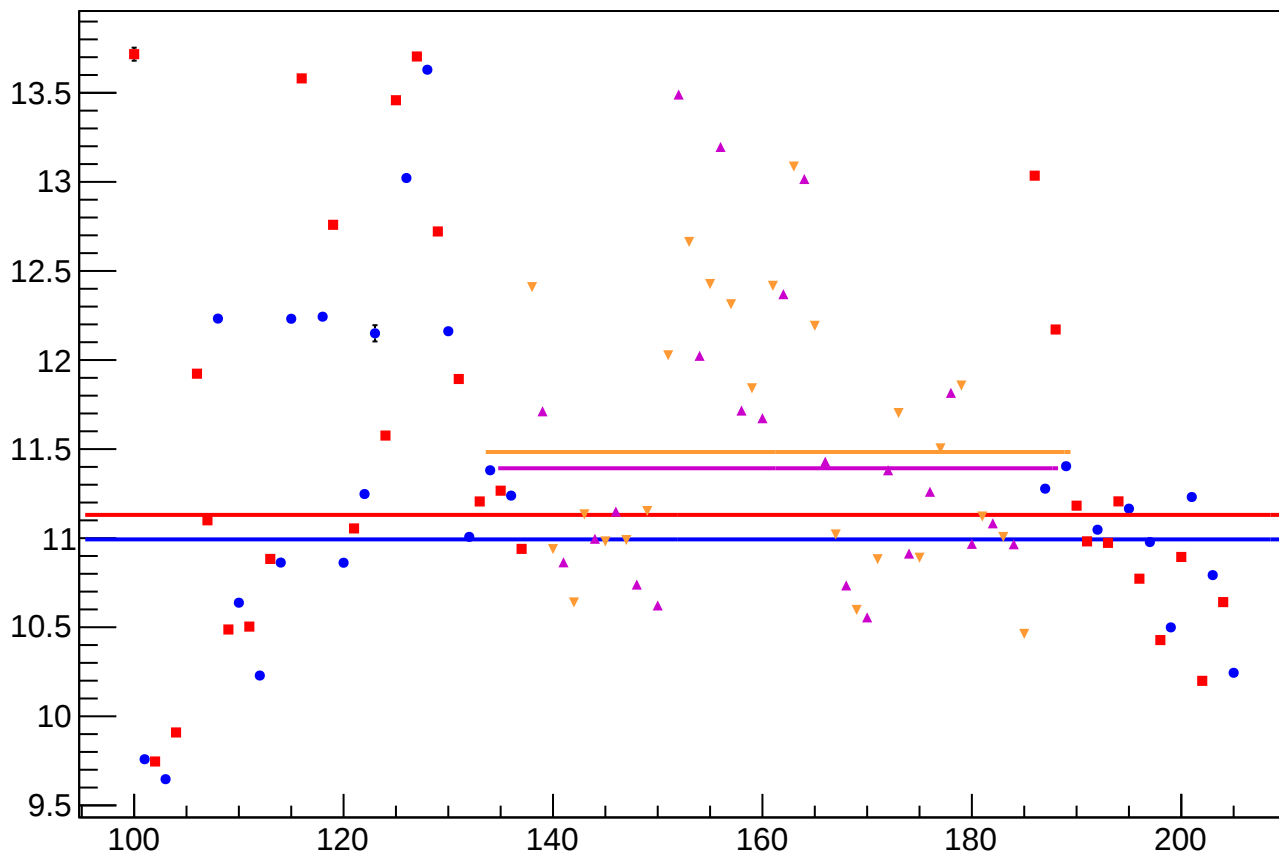
Right: 0.558 ± 2.136 $\chi^2/\text{NDF}: 65.0/55$

In: -3.211 ± 2.051 $\chi^2/\text{NDF}: 48.9/48$

Out: 2.409 ± 1.999 $\chi^2/\text{NDF}: 68.2/54$

All: -0.329 ± 1.431 $\chi^2/\text{NDF}: 120.9/103$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.993 ± 0.002 $\chi^2/\text{NDF}: 149394.3/25$

Left Out: 11.484 ± 0.002 $\chi^2/\text{NDF}: 129805.4/24$

Right Out: 11.131 ± 0.002 $\chi^2/\text{NDF}: 201367.7/29$

Left In: 11.392 ± 0.002 $\chi^2/\text{NDF}: 150493.3/22$

Left: 11.439 ± 0.001 $\chi^2/\text{NDF}: 281419.2/47$

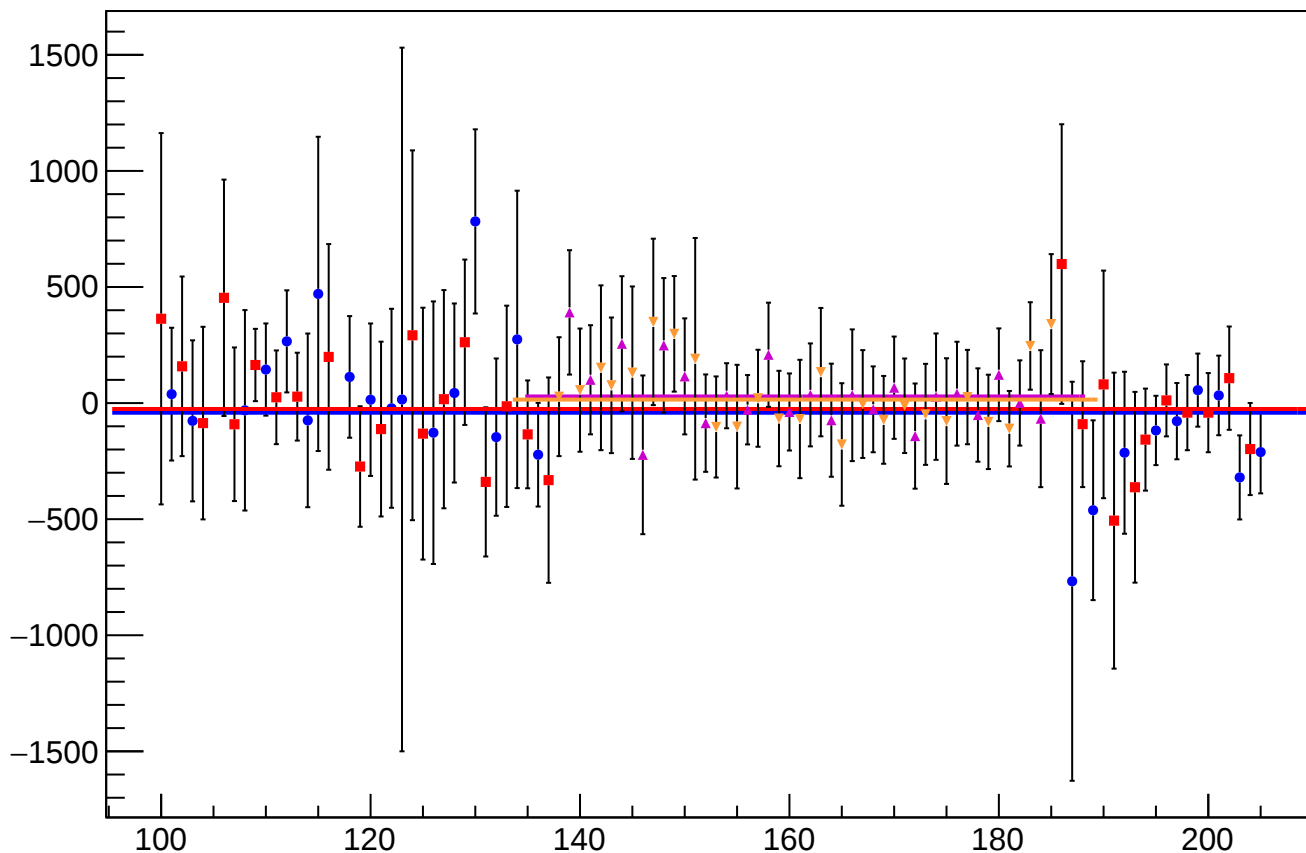
Right: 11.064 ± 0.002 $\chi^2/\text{NDF}: 352832.9/55$

In: 11.214 ± 0.001 $\chi^2/\text{NDF}: 318623.2/48$

Out: 11.324 ± 0.001 $\chi^2/\text{NDF}: 346621.6/54$

All: 11.271 ± 0.001 $\chi^2/\text{NDF}: 668218.3/103$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.483 ± 50.442 χ^2/NDF : 15.6/25

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -25.412 ± 49.246 χ^2/NDF : 10.7/29

Left In: 28.500 ± 44.797 χ^2/NDF : 6.4/22

Left: 22.235 ± 32.656 χ^2/NDF : 14.4/47

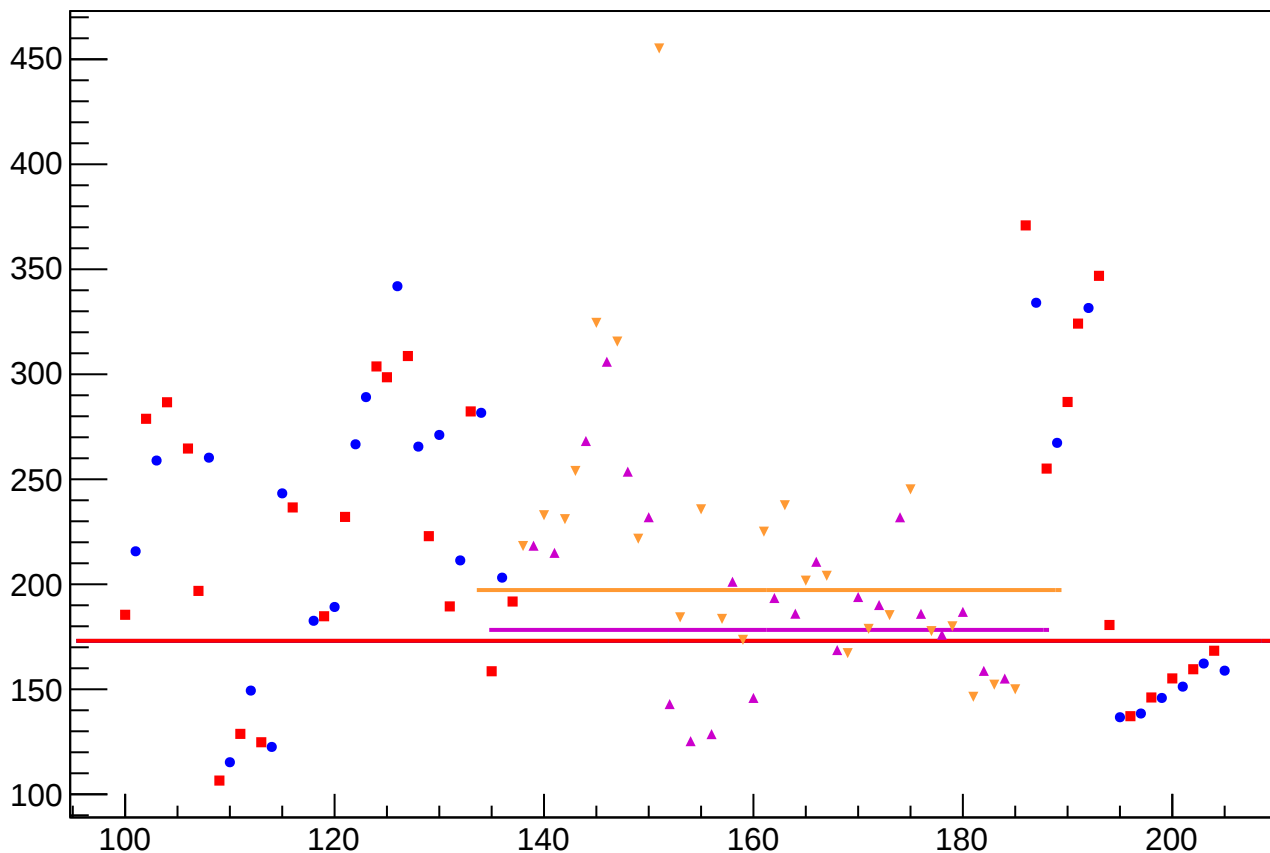
Right: -33.255 ± 35.238 χ^2/NDF : 26.3/55

In: -2.357 ± 33.495 χ^2/NDF : 23.0/48

Out: -4.497 ± 34.264 χ^2/NDF : 19.0/54

All: -3.403 ± 23.952 χ^2/NDF : 42.1/103

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.020 $\pm$ 0.036 χ^2 /NDF: 2069899.7/25

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 173.081 $\pm$ 0.035 χ^2 /NDF: 2736934.4/29

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

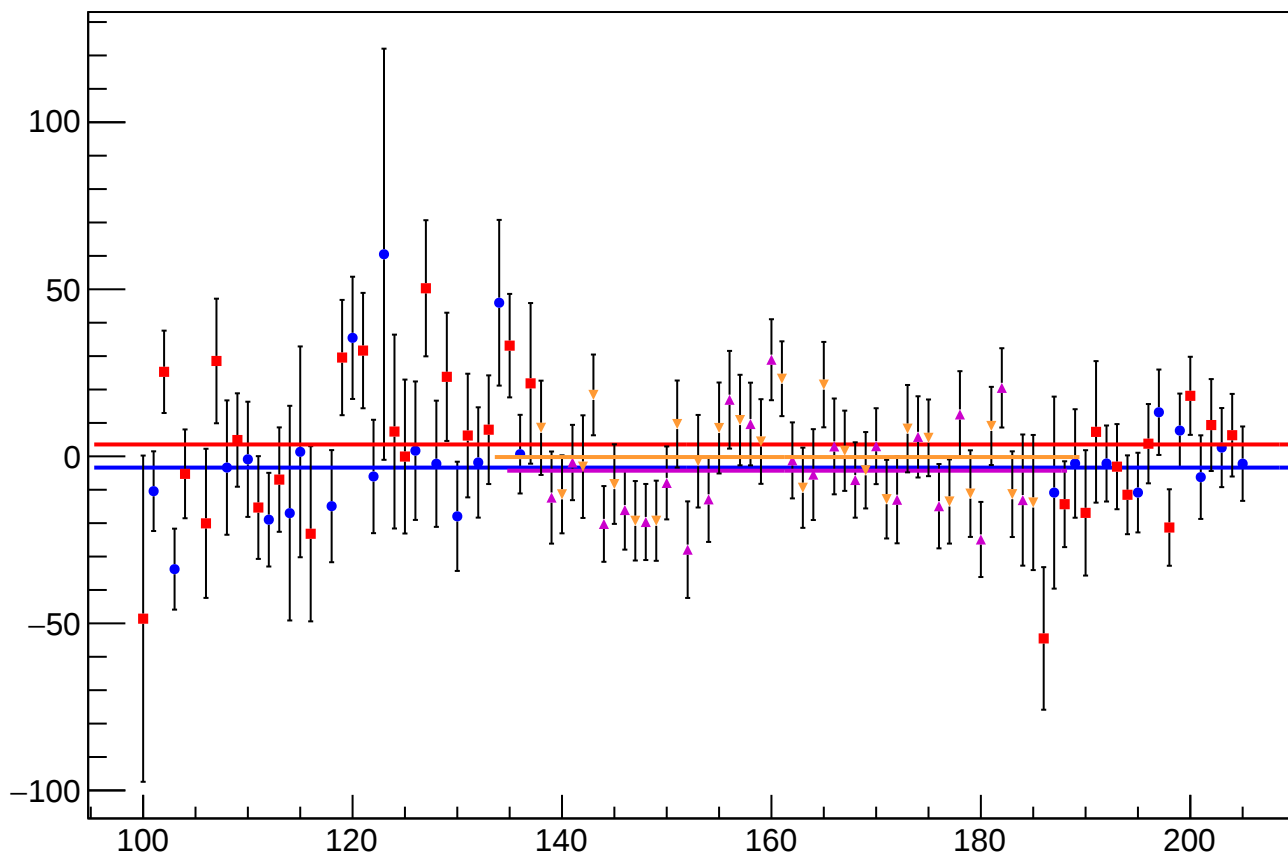
Right: 173.051 $\pm$ 0.025 χ^2 /NDF: 4806835.6/55

In: 175.959 $\pm$ 0.024 χ^2 /NDF:3710961.1/48

Out: 185.549 $\pm$ 0.024 χ^2 /NDF:4772257.0/54

All: 180.645 $\pm$ 0.017 χ^2 /NDF: 8563332.8/103

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.370 ± 2.962 χ^2/NDF : 22.6/25

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 3.554 ± 2.881 χ^2/NDF : 45.2/29

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

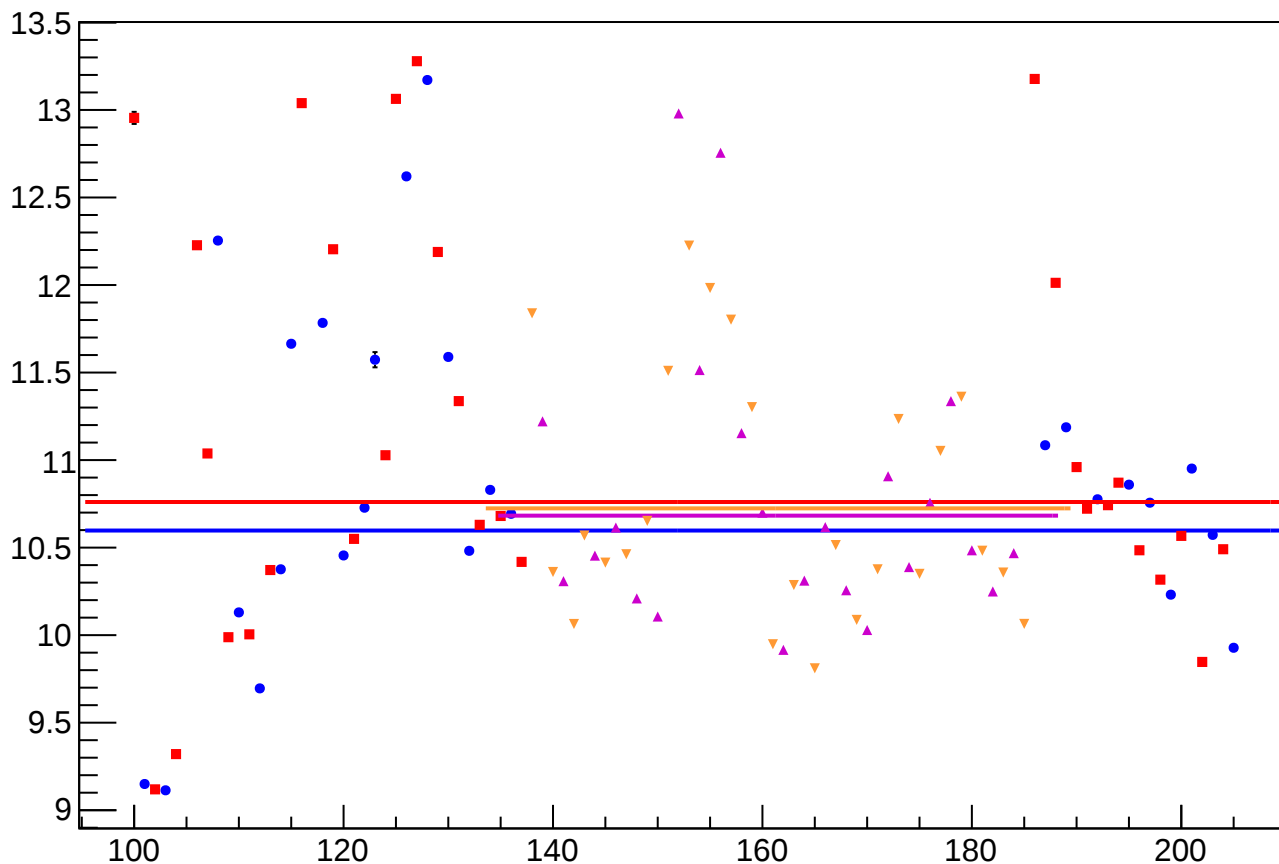
Right: 0.188 ± 2.065 χ^2/NDF : 70.7/55

In: -3.896 ± 1.949 χ^2/NDF : 54.2/48

Out: 1.424 ± 1.898 χ^2/NDF : 70.7/54

All: -1.165 ± 1.360 χ^2/NDF : 128.8/103

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.598 $\pm$ 0.002 χ^2 /NDF: 175842.2/25

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.761 $\pm$ 0.002 χ^2 /NDF: 237373.5/29

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280658.8/47

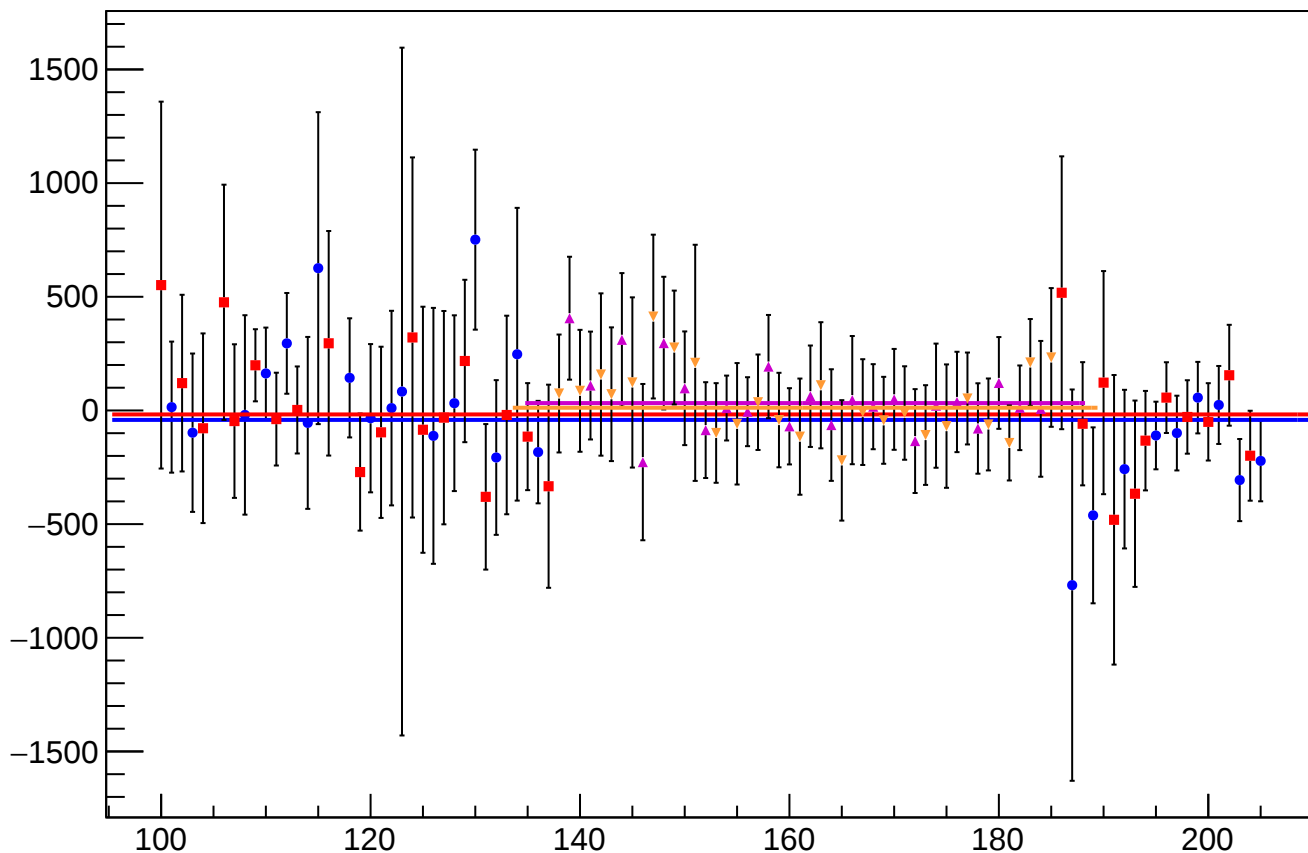
Right: 10.681 $\pm$ 0.001 χ^2 /NDF: 416327.7/55

In: 10.646 $\pm$ 0.001 χ^2 /NDF:324612.6/48

Out: 10.740 $\pm$ 0.001 χ^2 /NDF:370112.7/54

All: 10.694 $\pm$ 0.001 χ^2 /NDF: 697122.5/103

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.581 ± 50.535 χ^2/NDF : 16.1/25

Left Out: 11.891 ± 48.022 χ^2/NDF : 7.6/24

Right Out: -17.519 ± 49.446 χ^2/NDF : 11.6/29

Left In: 32.413 ± 45.155 χ^2/NDF : 6.9/22

Left: 22.783 ± 32.896 χ^2/NDF : 14.6/47

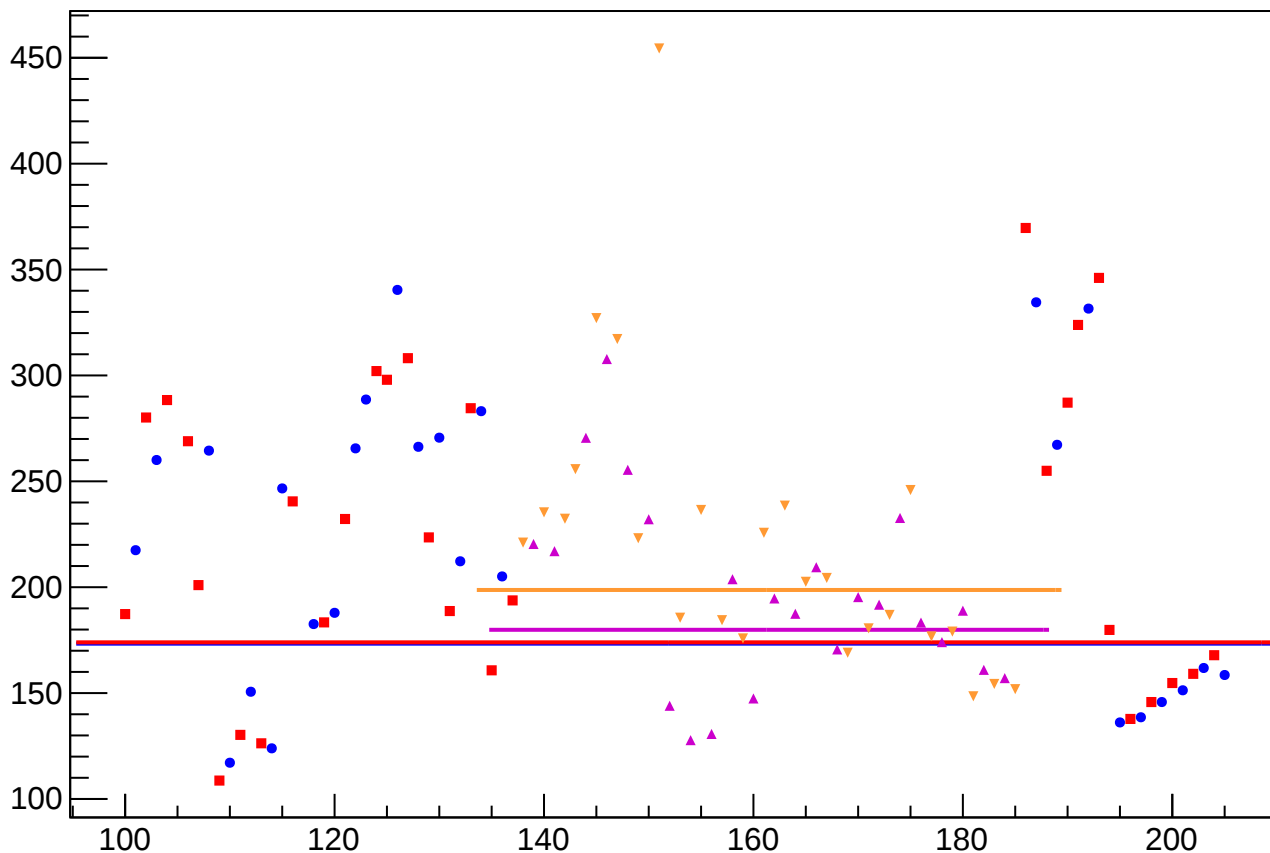
Right: -29.288 ± 35.342 χ^2/NDF : 27.8/55

In: -0.437 ± 33.671 χ^2/NDF : 24.2/48

Out: -2.385 ± 34.449 χ^2/NDF : 19.4/54

All: -1.389 ± 24.079 χ^2/NDF : 43.6/103

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.340 $\pm$ 0.036 χ^2 /NDF: 2068304.9/25

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 173.968 $\pm$ 0.035 χ^2 /NDF: 2691781.8/29

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

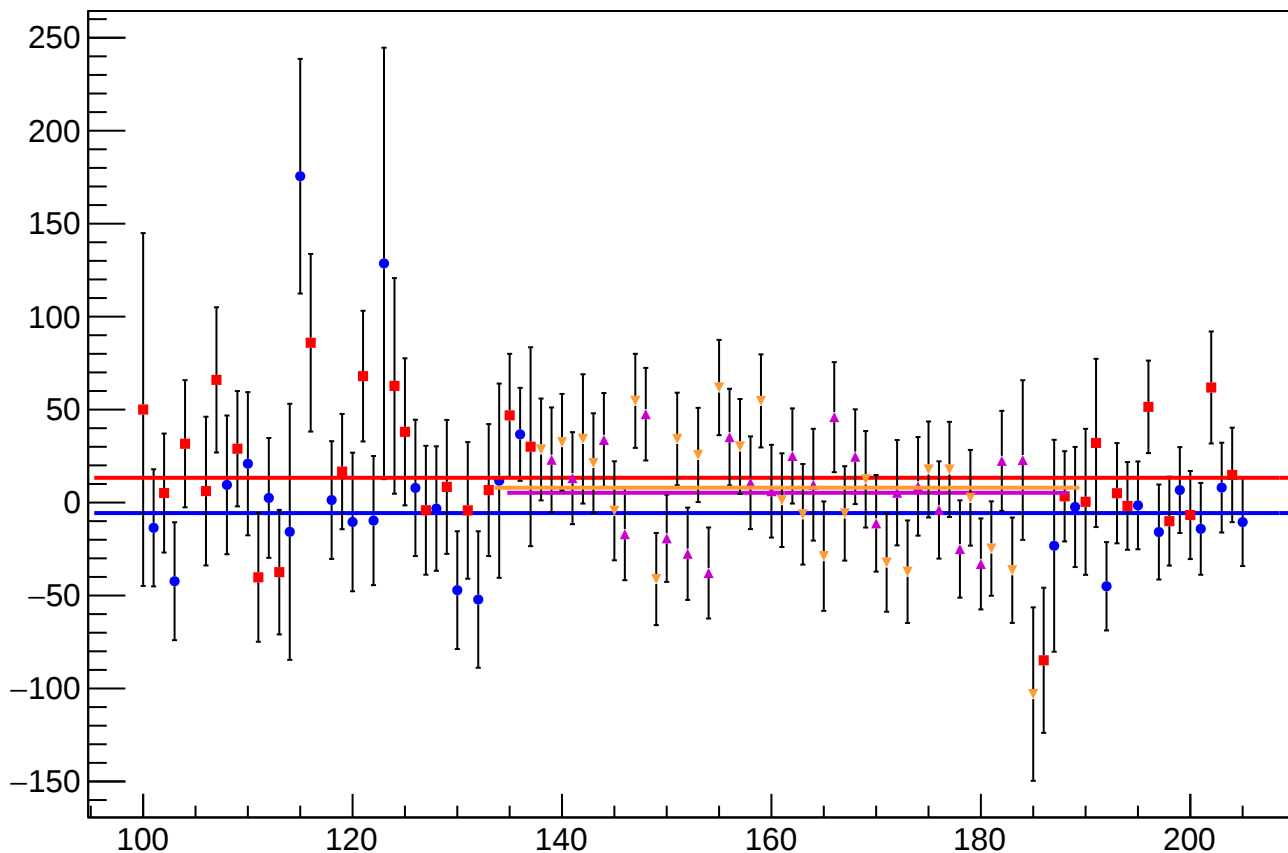
Right: 173.661 $\pm$ 0.025 χ^2 /NDF: 4760244.5/55

In: 176.980 $\pm$ 0.024 χ^2 /NDF:3667605.2/48

Out: 186.692 $\pm$ 0.024 χ^2 /NDF:4708484.4/54

All: 181.725 $\pm$ 0.017 χ^2 /NDF: 8457393.9/103

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.651 ± 6.182 χ^2/NDF : 22.0/25

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.327 ± 5.968 χ^2/NDF : 28.7/29

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

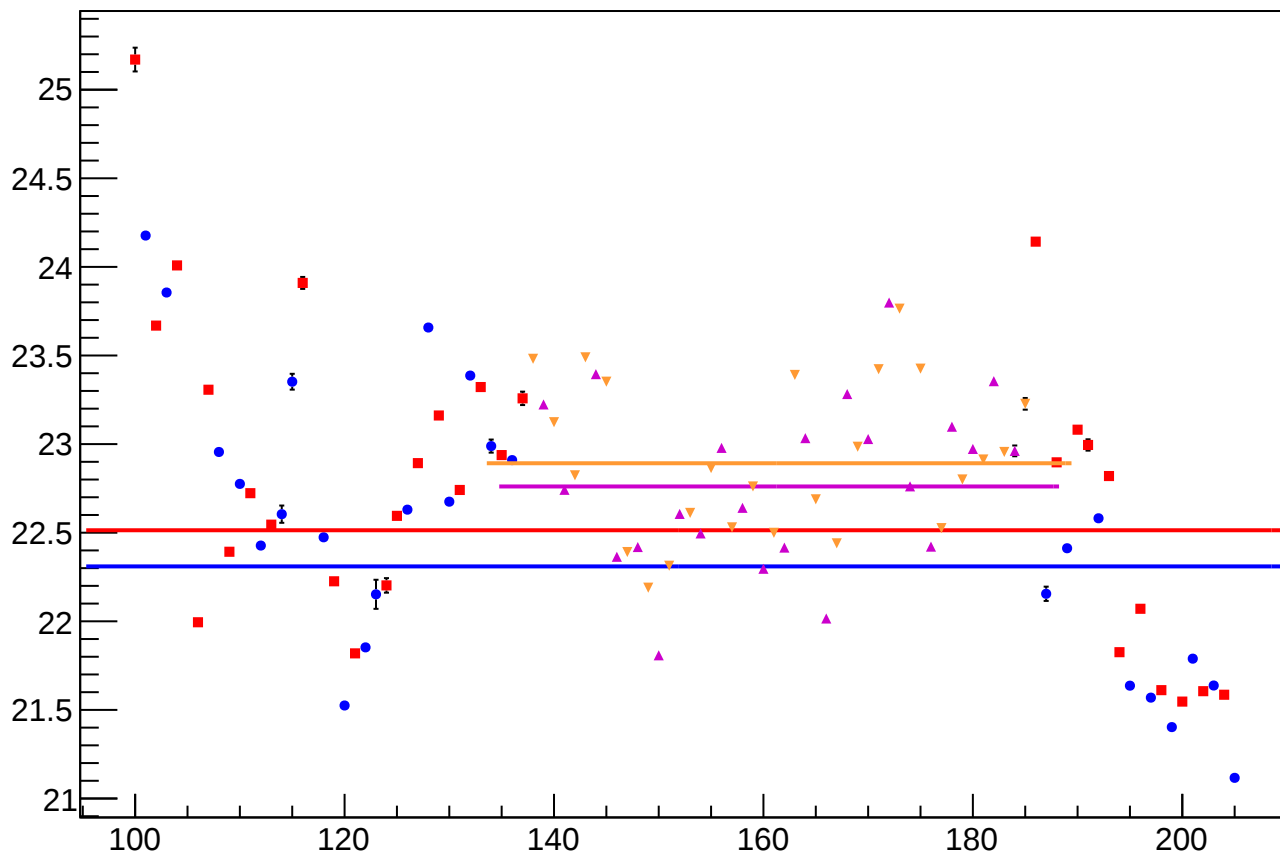
Right: 4.173 ± 4.294 χ^2/NDF : 55.6/55

In: 0.474 ± 4.094 χ^2/NDF : 44.5/48

Out: 10.368 ± 3.977 χ^2/NDF : 66.6/54

All: 5.565 ± 2.853 χ^2/NDF : 114.1/103

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.310+/-0.004 χ^2/NDF : 35658.2/25

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.514+/-0.004 χ^2/NDF : 32593.8/29

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

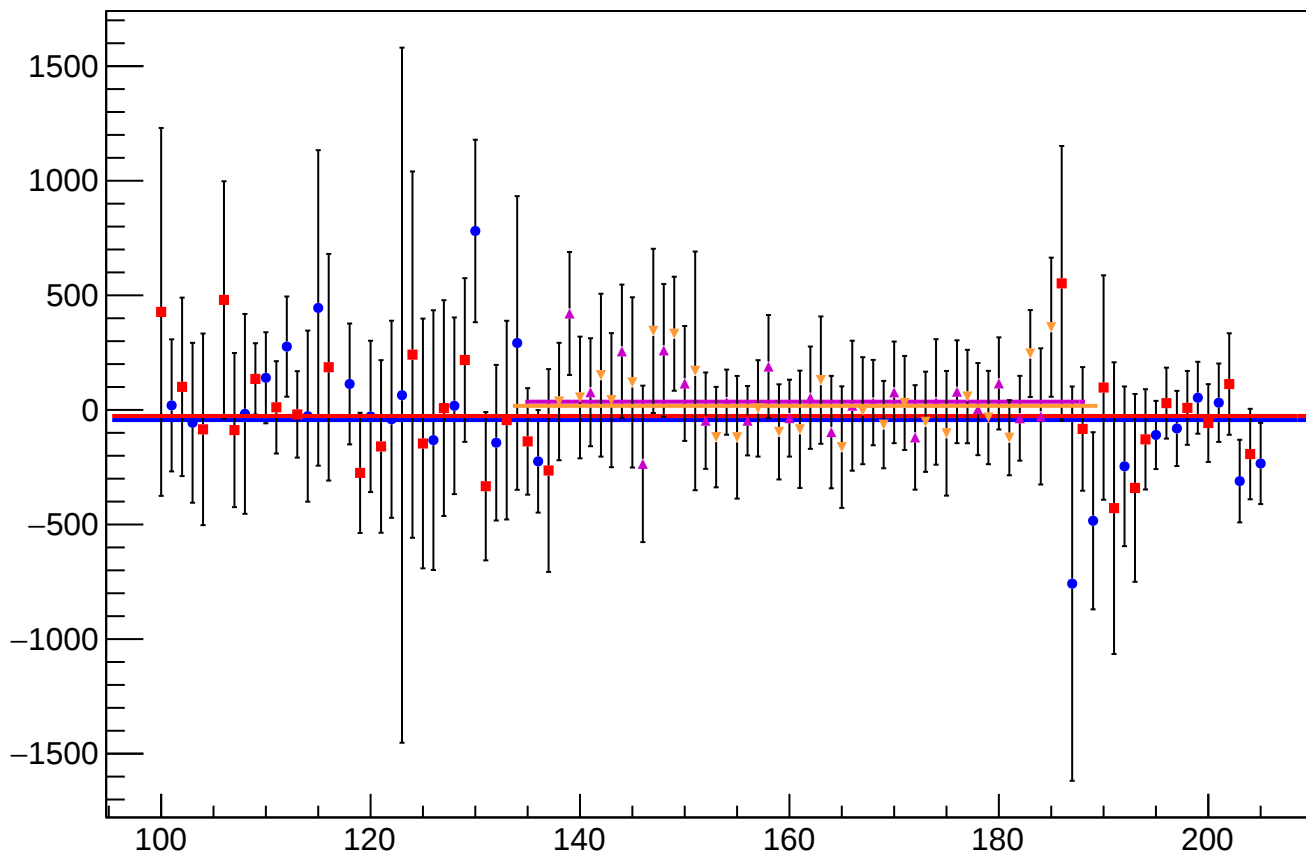
Right: 22.415+/-0.003 χ^2/NDF : 69379.0/55

In: 22.563+/-0.003 χ^2/NDF :56186.6/48

Out: 22.724+/-0.003 χ^2/NDF :50052.8/54

All: 22.646+/-0.002 χ^2/NDF : 107829.2/103

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.284 ± 50.388 χ^2/NDF : 15.8/25

Left Out: 17.777 ± 47.941 χ^2/NDF : 8.5/24

Right Out: -26.373 ± 49.211 χ^2/NDF : 9.4/29

Left In: 35.879 ± 45.087 χ^2/NDF : 6.3/22

Left: 27.383 ± 32.844 χ^2/NDF : 14.9/47

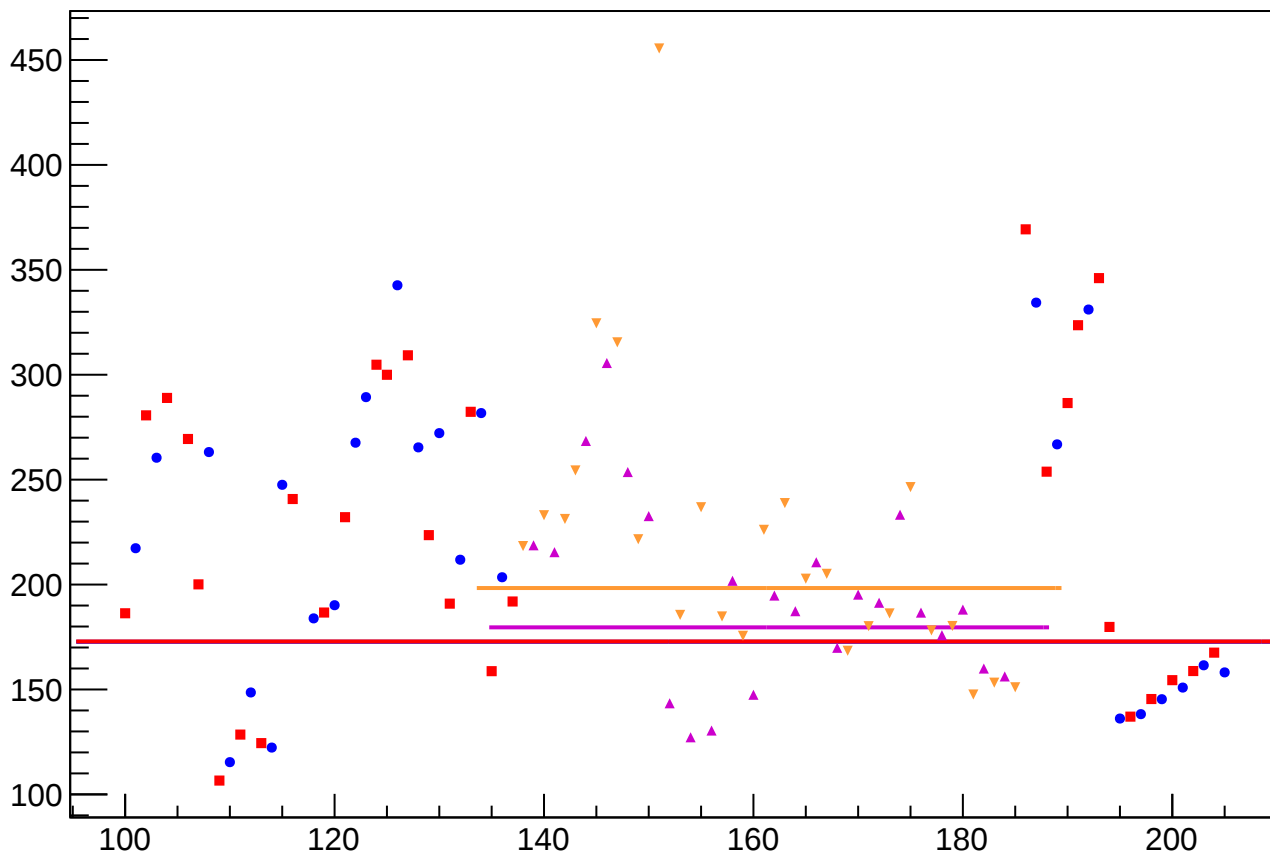
Right: -35.117 ± 35.206 χ^2/NDF : 25.2/55

In: 0.234 ± 33.600 χ^2/NDF : 23.5/48

Out: -3.721 ± 34.340 χ^2/NDF : 18.3/54

All: -1.700 ± 24.016 χ^2/NDF : 41.8/103

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.740 $\pm$ 0.036 χ^2 /NDF: 2098856.7/25

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 172.887 $\pm$ 0.035 χ^2 /NDF: 2763187.3/29

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

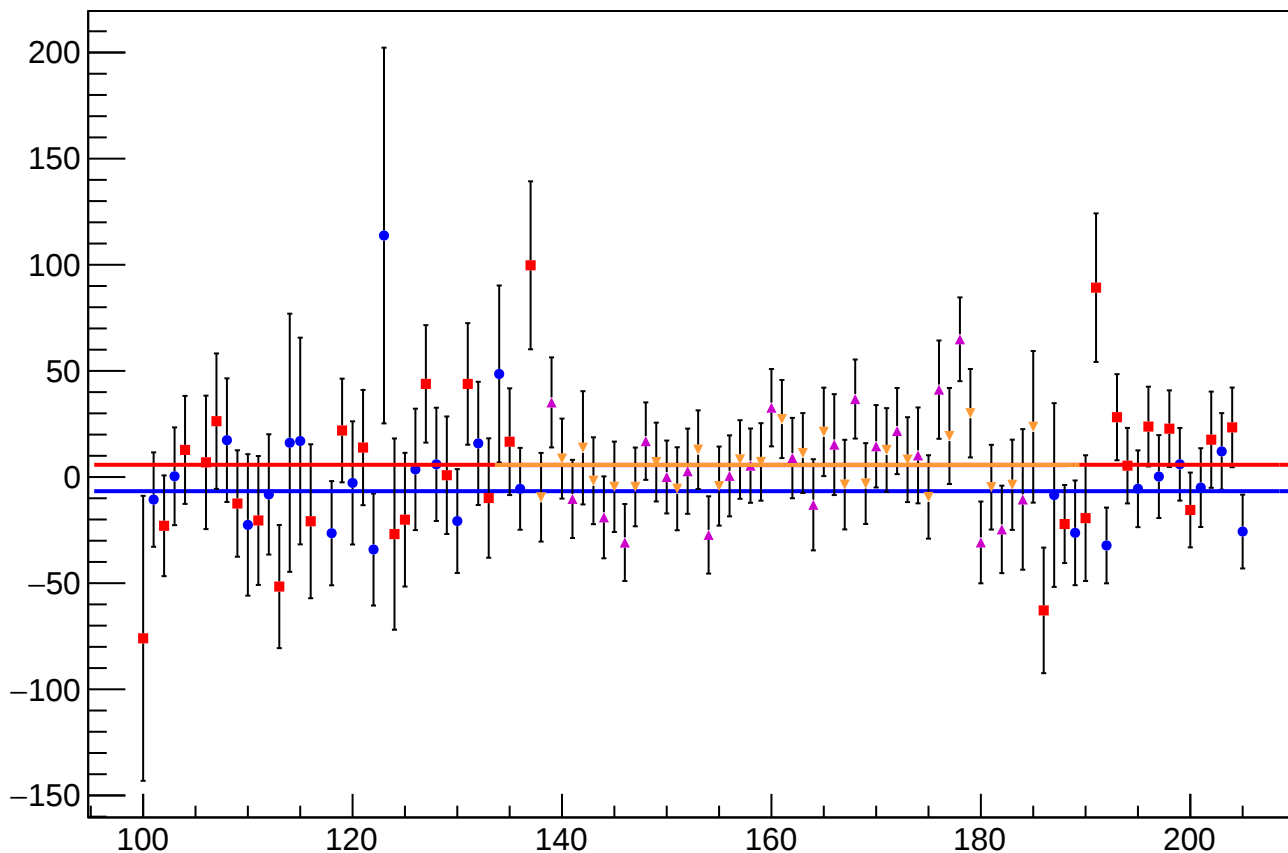
Right: 172.815 $\pm$ 0.025 χ^2 /NDF: 4862052.7/55

In: 176.552 $\pm$ 0.024 χ^2 /NDF:3695218.3/48

Out: 185.948 $\pm$ 0.024 χ^2 /NDF:4795236.5/54

All: 181.148 $\pm$ 0.017 χ^2 /NDF: 8566941.8/103

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.653 $\pm$ 4.726 χ^2/NDF : 13.7/25

Left Out: 5.680 $\pm$ 4.024 χ^2/NDF : 7.7/24

Right Out: 5.768 $\pm$ 4.585 χ^2/NDF : 40.5/29

Left In: 5.595 $\pm$ 4.121 χ^2/NDF : 36.4/22

Left: 5.639 $\pm$ 2.879 χ^2/NDF : 44.1/47

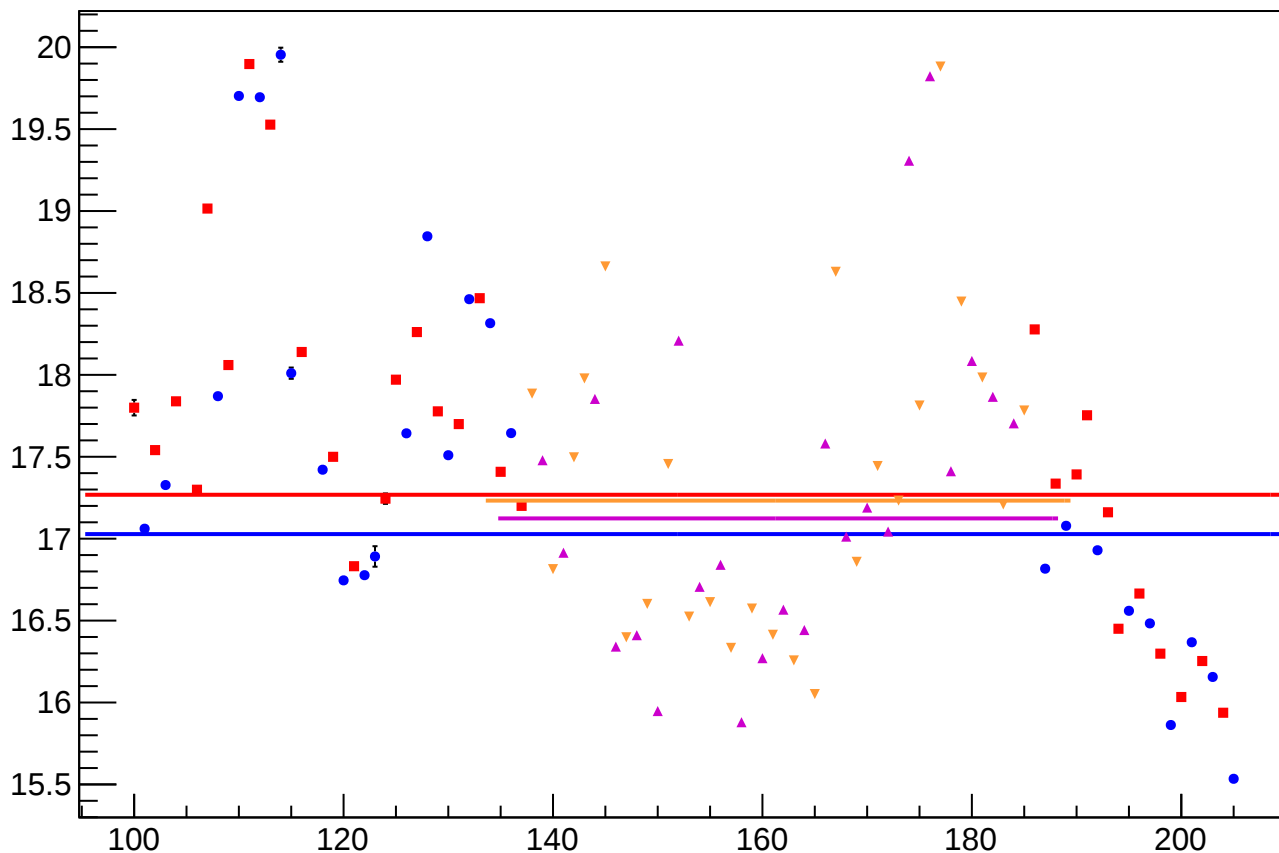
Right: -0.255 $\pm$ 3.291 χ^2/NDF : 57.7/55

In: 0.304 $\pm$ 3.106 χ^2/NDF : 53.9/48

Out: 5.718 $\pm$ 3.024 χ^2/NDF : 48.2/54

All: 3.083 $\pm$ 2.167 χ^2/NDF : 103.7/103

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.028 $\pm$ 0.003 χ^2 /NDF: 93007.2/25

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.268 $\pm$ 0.003 χ^2 /NDF: 85545.9/29

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

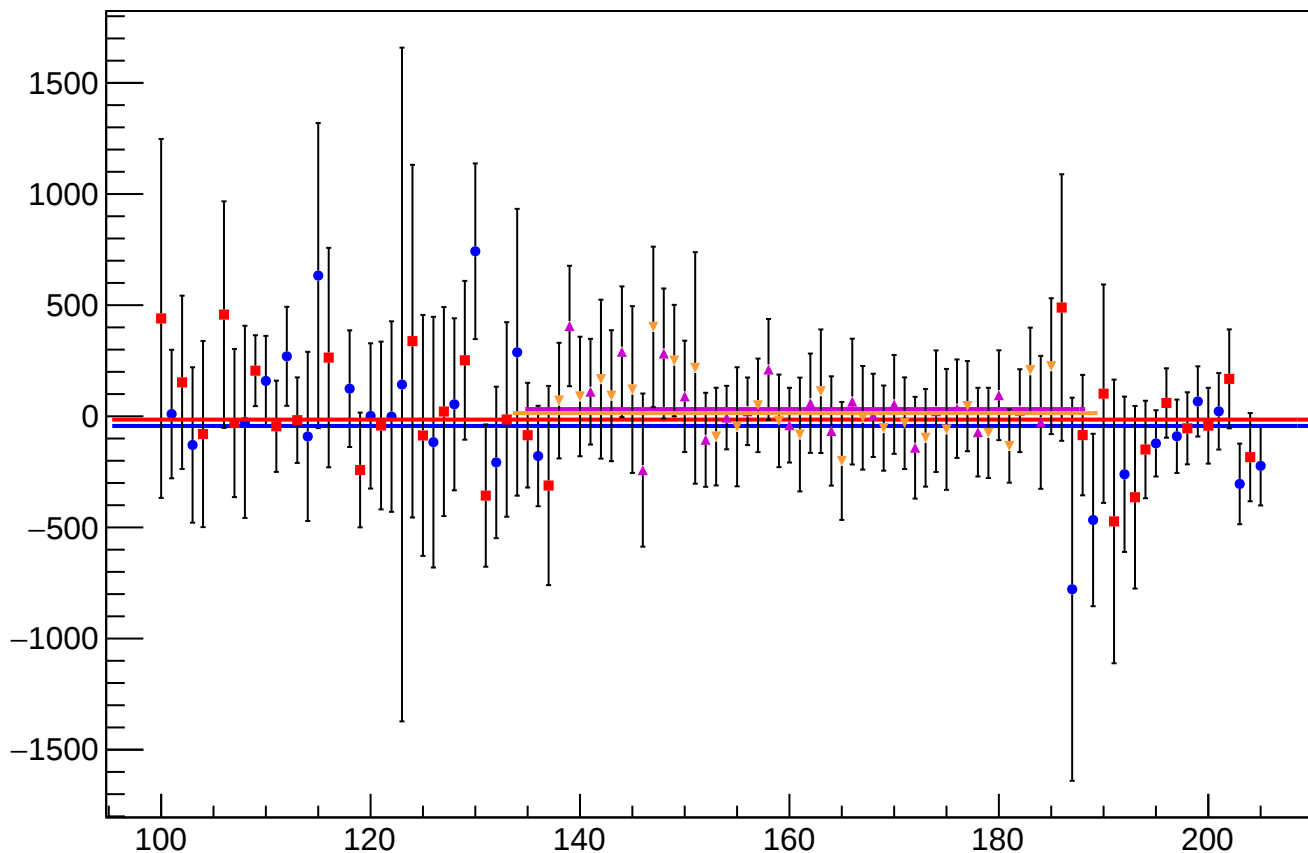
Right: 17.152 $\pm$ 0.002 χ^2 /NDF: 181212.0/55

In: 17.082 $\pm$ 0.002 χ^2 /NDF:194220.2/48

Out: 17.248 $\pm$ 0.002 χ^2 /NDF:184315.2/54

All: 17.167 $\pm$ 0.002 χ^2 /NDF: 381453.0/103

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -43.503 ± 50.685 $\chi^2/\text{NDF}: 15.8/25$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -14.824 ± 49.568 $\chi^2/\text{NDF}: 11.0/29$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

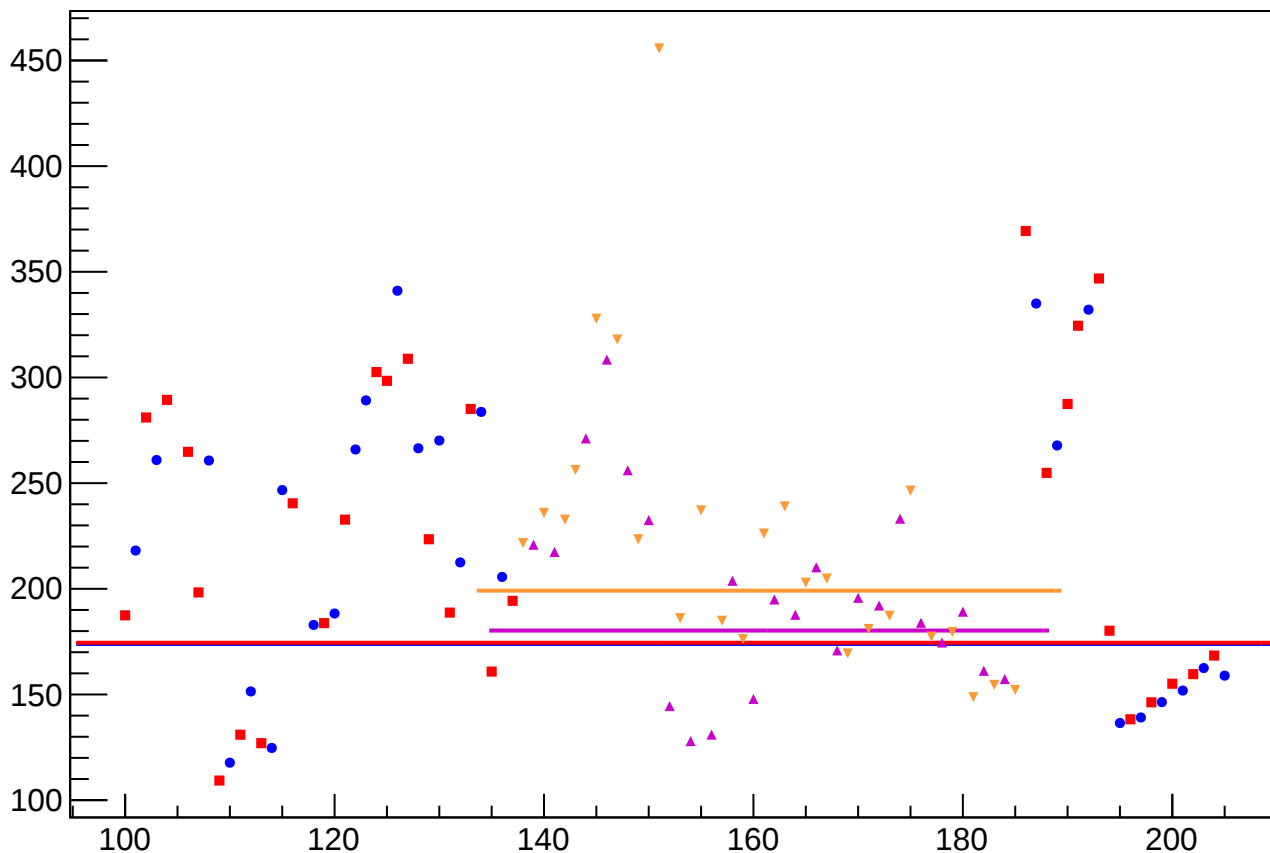
Right: -28.844 ± 35.438 $\chi^2/\text{NDF}: 27.0/55$

In: -1.168 ± 33.754 $\chi^2/\text{NDF}: 23.7/48$

Out: 0.199 ± 34.530 $\chi^2/\text{NDF}: 18.1/54$

All: -0.500 ± 24.137 $\chi^2/\text{NDF}: 41.9/103$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.919 $\pm$ 0.036 χ^2 /NDF: 2050294.2/25

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 174.477 $\pm$ 0.035 χ^2 /NDF: 2667804.5/29

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

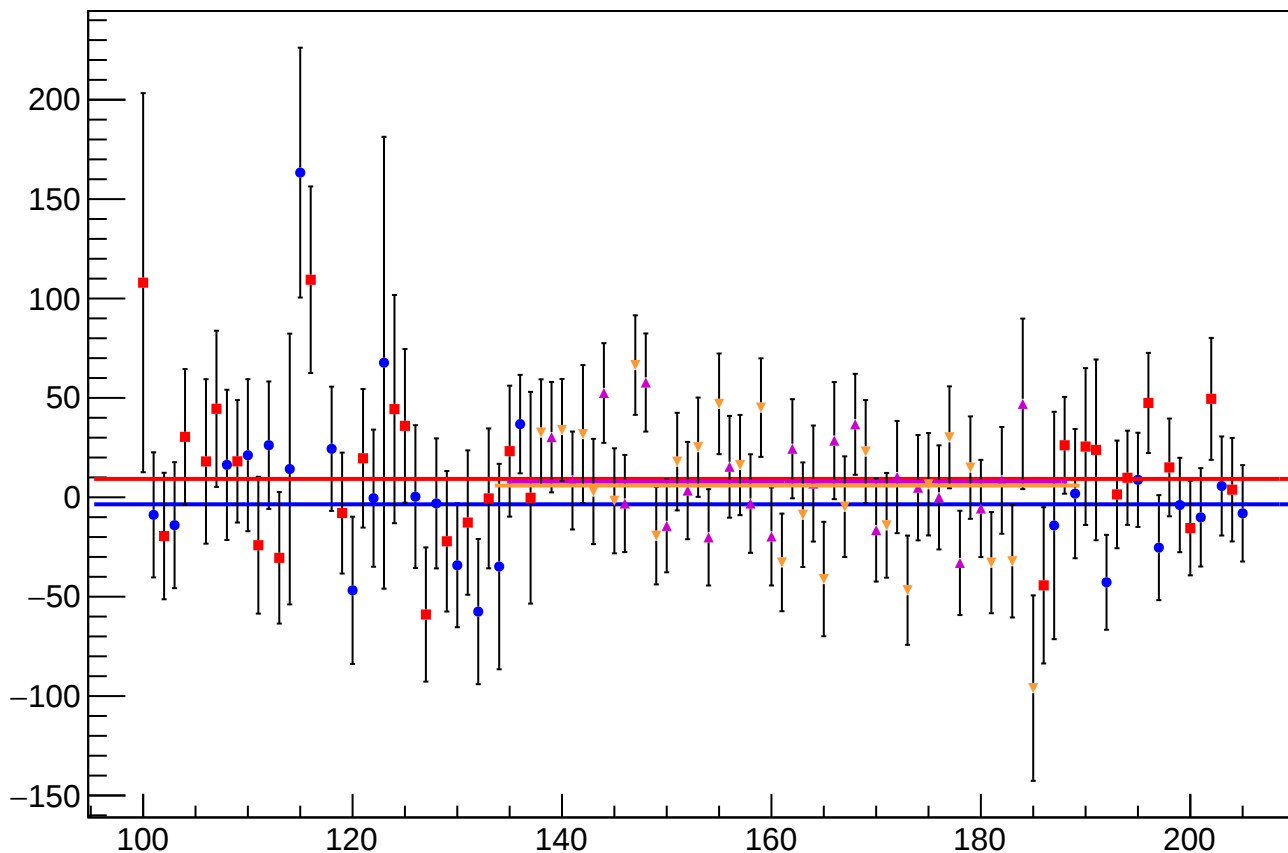
Right: 174.204 $\pm$ 0.025 χ^2 /NDF: 4718222.7/55

In: 177.446 $\pm$ 0.024 χ^2 /NDF:3648246.9/48

Out: 187.169 $\pm$ 0.024 χ^2 /NDF:4682861.9/54

All: 182.197 $\pm$ 0.017 χ^2 /NDF: 8412210.6/103

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.524 ± 6.209 χ^2/NDF : 21.5/25

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 9.253 ± 5.977 χ^2/NDF : 24.8/29

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

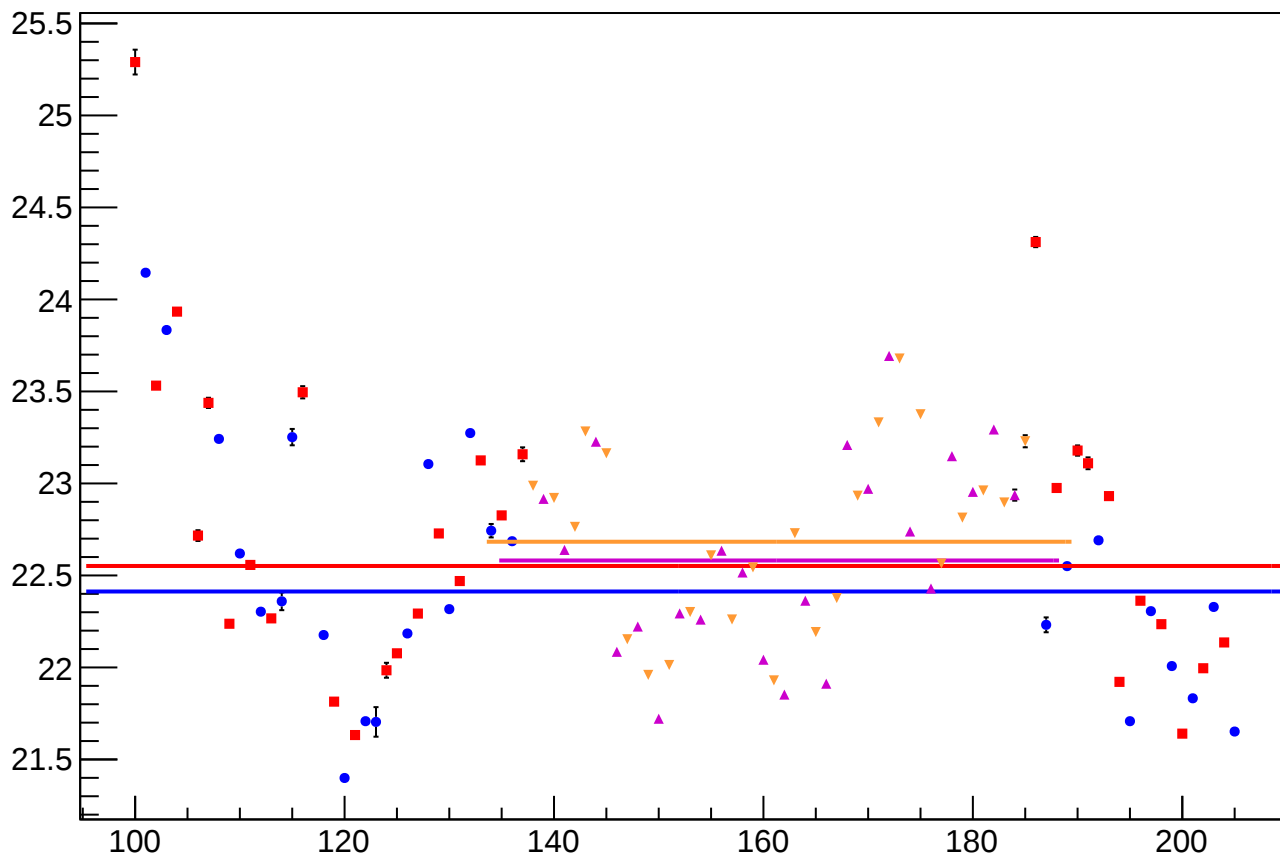
Right: 3.108 ± 4.306 χ^2/NDF : 48.5/55

In: 2.967 ± 4.084 χ^2/NDF : 42.1/48

Out: 7.392 ± 3.959 χ^2/NDF : 61.1/54

All: 5.248 ± 2.843 χ^2/NDF : 103.9/103

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.413+/-0.004 χ^2/NDF : 22255.8/25

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.551+/-0.004 χ^2/NDF : 24997.6/29

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

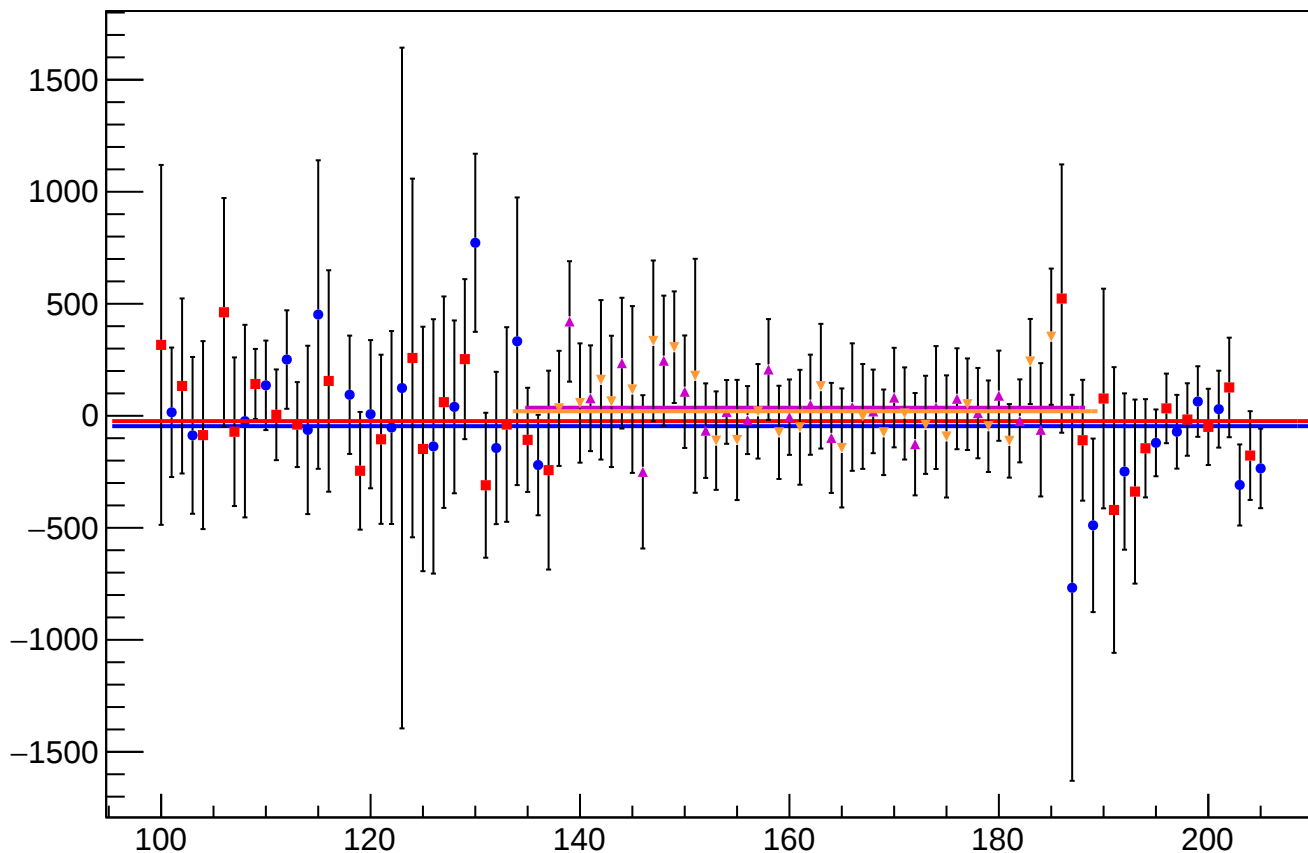
Right: 22.485+/-0.003 χ^2/NDF : 47771.5/55

In: 22.508+/-0.003 χ^2/NDF :40996.7/48

Out: 22.625+/-0.003 χ^2/NDF :41863.2/54

All: 22.569+/-0.002 χ^2/NDF : 83706.0/103

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -46.291 $\pm$ 50.540 χ^2 /NDF: 15.4/25

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF: 7.7/24

Right Out: -23.742 $\pm$ 49.335 χ^2 /NDF: 8.8/29

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF: 6.1/22

Left: 28.633 $\pm$ 32.915 χ^2 /NDF: 13.8/47

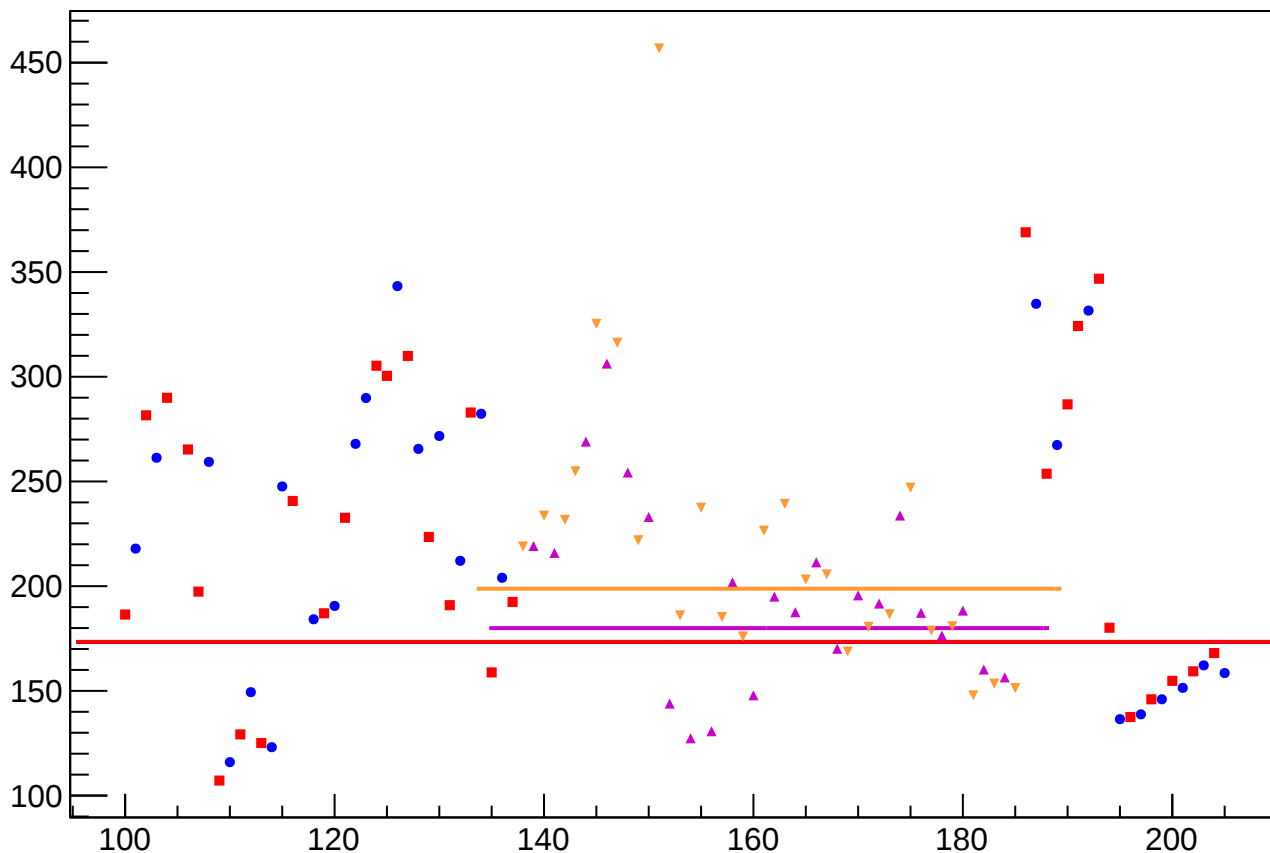
Right: -34.744 $\pm$ 35.303 χ^2 /NDF: 24.3/55

In: -0.554 $\pm$ 33.683 χ^2 /NDF: 23.0/48

Out: -1.136 $\pm$ 34.421 χ^2 /NDF: 16.9/54

All: -0.839 $\pm$ 24.074 χ^2 /NDF: 39.8/103

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.325 $\pm$ 0.036 χ^2 /NDF: 2080245.0/25

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 173.405 $\pm$ 0.035 χ^2 /NDF: 2738241.6/29

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

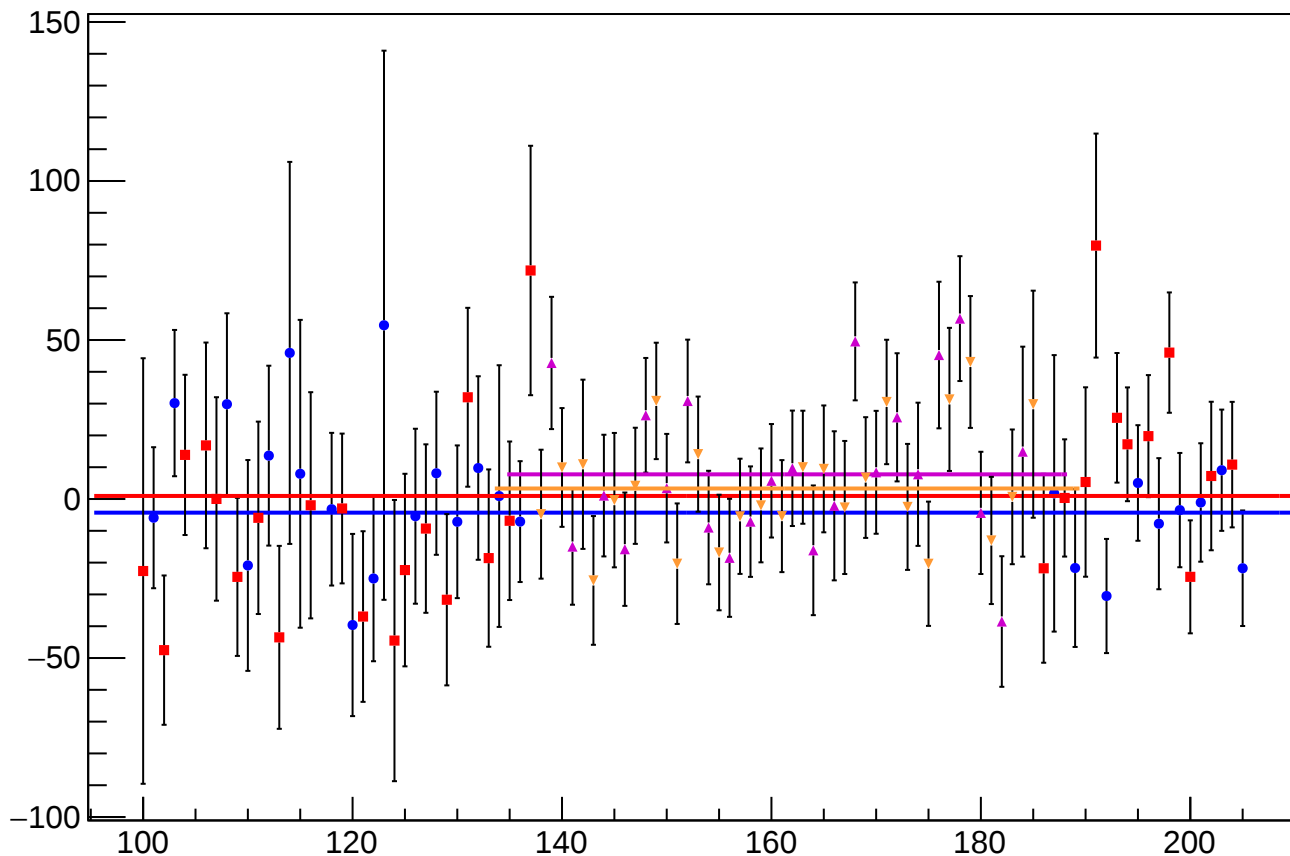
Right: 173.366 $\pm$ 0.025 χ^2 /NDF: 4818489.2/55

In: 177.020 $\pm$ 0.024 χ^2 /NDF:3675361.6/48

Out: 186.430 $\pm$ 0.024 χ^2 /NDF:4768350.6/54

All: 181.623 $\pm$ 0.017 χ^2 /NDF: 8520064.1/103

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.291 $\pm$ 4.761 χ^2/NDF : 12.6/25

Left Out: 3.307 $\pm$ 3.954 χ^2/NDF :18.7/24

Right Out: 0.964 $\pm$ 4.598 χ^2/NDF : 35.7/29

Left In: 7.756 $\pm$ 4.061 χ^2/NDF :34.3/22

Left: 5.472 $\pm$ 2.833 χ^2/NDF : 53.6/47

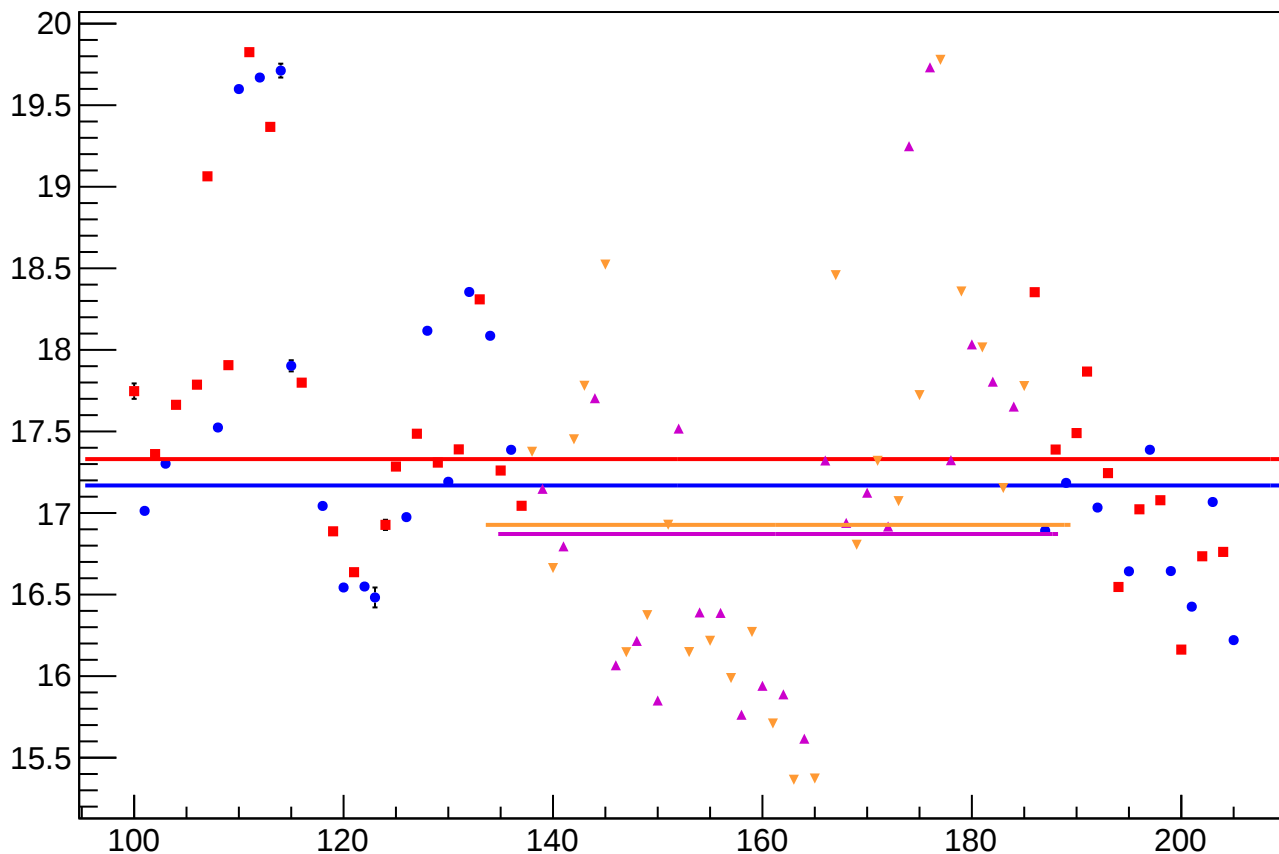
Right: -1.572 $\pm$ 3.308 χ^2/NDF : 48.9/55

In: 2.683 $\pm$ 3.090 χ^2/NDF :50.6/48

Out: 2.311 $\pm$ 2.998 χ^2/NDF :54.5/54

All: 2.492 $\pm$ 2.152 χ^2/NDF : 105.1/103

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.169 $\pm$ 0.003 χ^2 /NDF: 53136.9/25

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.330 $\pm$ 0.003 χ^2 /NDF: 55898.5/29

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

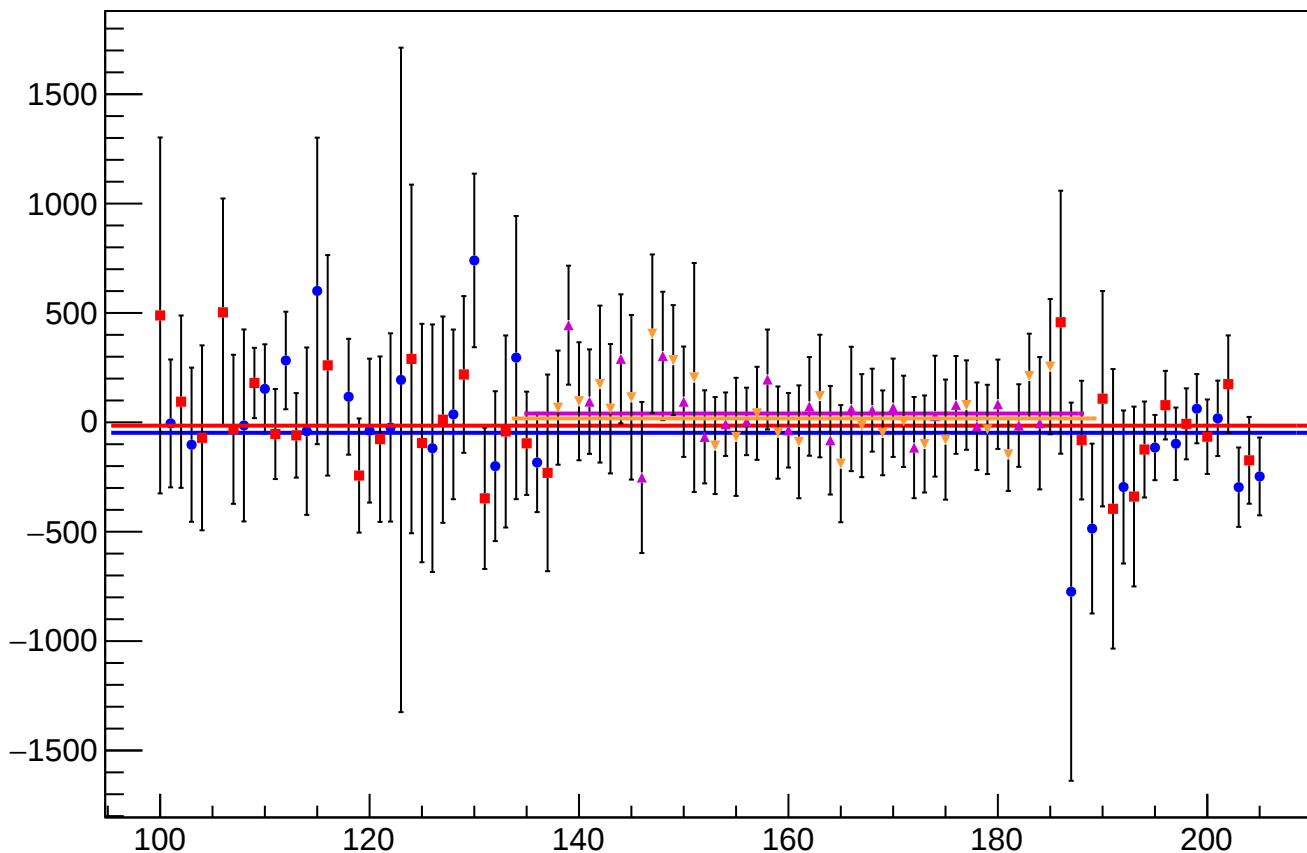
Right: 17.252 $\pm$ 0.002 χ^2 /NDF: 110228.4/55

In: 16.997 $\pm$ 0.002 χ^2 /NDF:175652.0/48

Out: 17.099 $\pm$ 0.002 χ^2 /NDF:203271.8/54

All: 17.049 $\pm$ 0.002 χ^2 /NDF: 380048.2/103

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -47.773 ± 50.838 χ^2/NDF : 15.9/25

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -15.122 ± 49.758 χ^2/NDF : 9.9/29

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

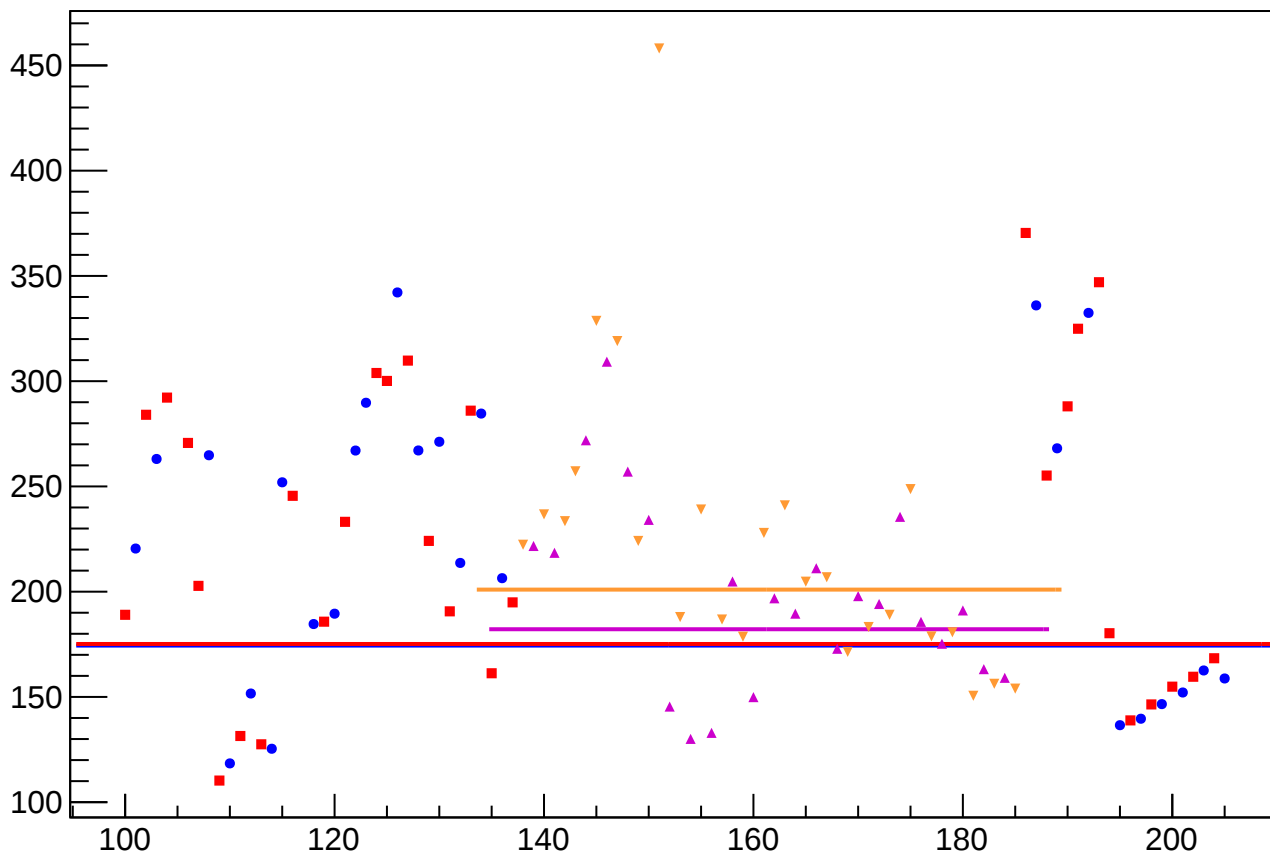
Right: -31.097 ± 35.560 χ^2/NDF : 26.0/55

In: 0.979 ± 33.982 χ^2/NDF : 24.2/48

Out: 1.759 ± 34.748 χ^2/NDF : 17.6/54

All: 1.360 ± 24.295 χ^2/NDF : 41.8/103

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.404 $\pm$ 0.036 χ^2 /NDF: 2065400.2/25

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 175.153 $\pm$ 0.035 χ^2 /NDF: 2676348.6/29

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

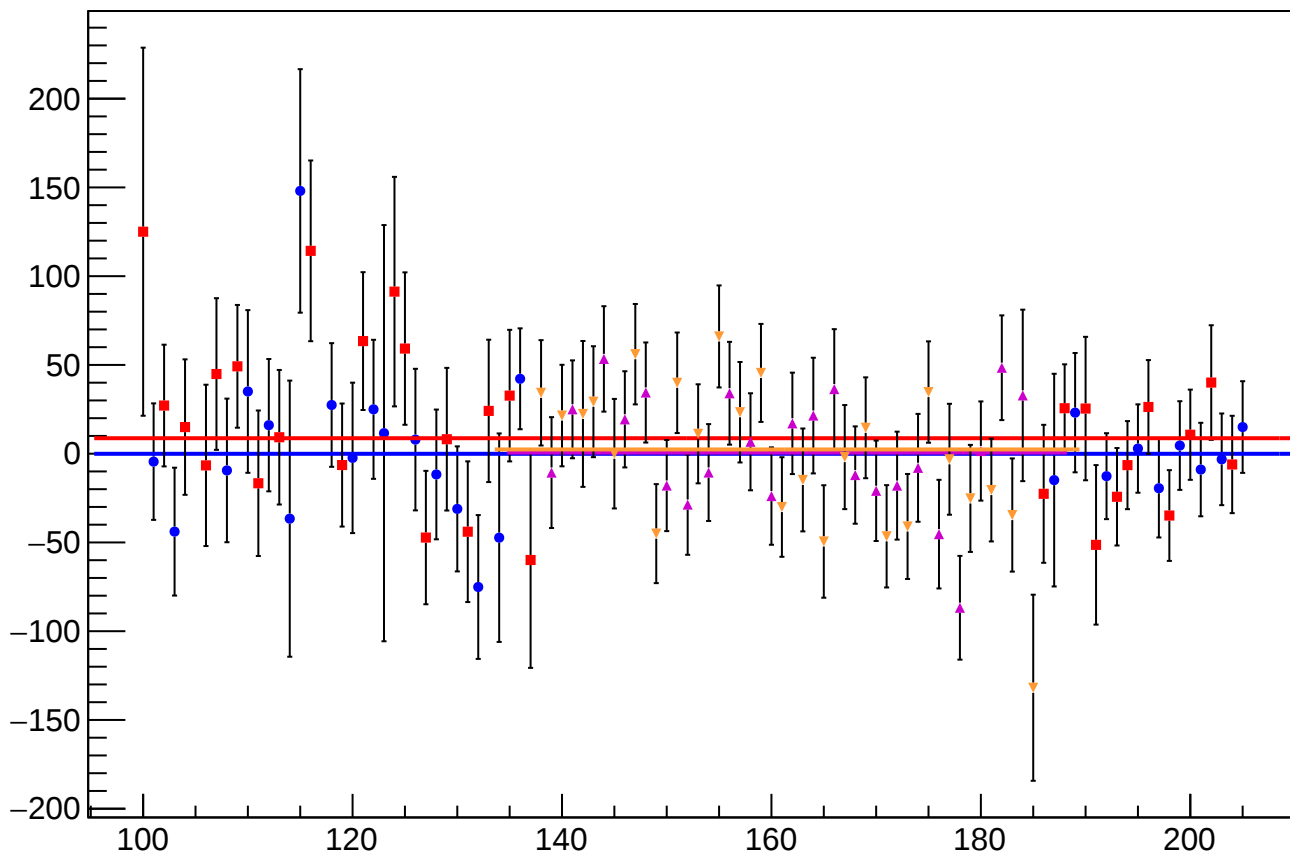
Right: 174.787 $\pm$ 0.025 χ^2 /NDF: 4741970.5/55

In: 178.694 $\pm$ 0.024 χ^2 /NDF:3627059.8/48

Out: 188.388 $\pm$ 0.025 χ^2 /NDF:4679791.2/54

All: 183.433 $\pm$ 0.017 χ^2 /NDF: 8386410.6/103

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.064 ± 6.720 $\chi^2/\text{NDF}: 17.3/25$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 8.713 ± 6.428 $\chi^2/\text{NDF}: 29.0/29$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

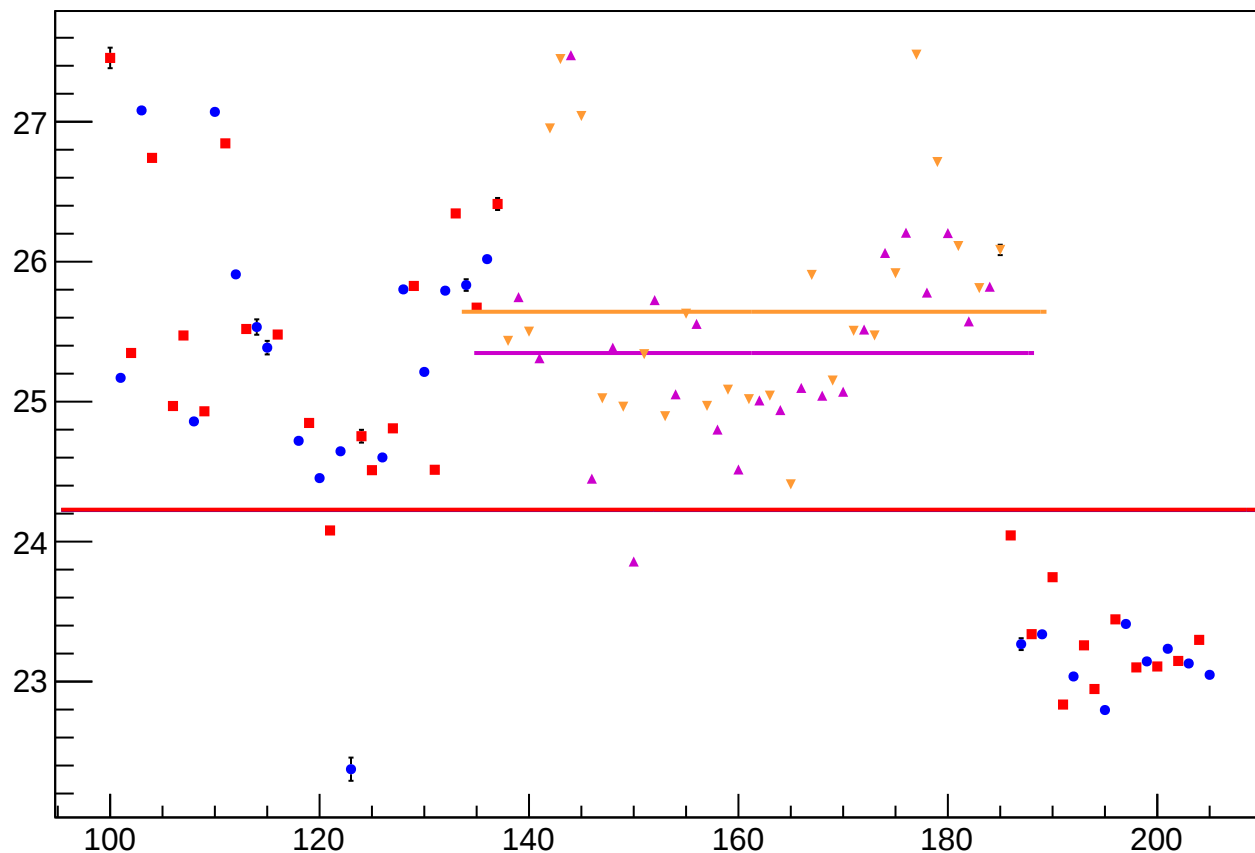
Right: 4.519 ± 4.645 $\chi^2/\text{NDF}: 47.1/55$

In: 0.323 ± 4.513 $\chi^2/\text{NDF}: 44.6/48$

Out: 5.323 ± 4.378 $\chi^2/\text{NDF}: 68.6/54$

All: 2.899 ± 3.143 $\chi^2/\text{NDF}: 113.8/103$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.226 $\pm$ 0.005 χ^2 /NDF: 76154.5/25

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.228 $\pm$ 0.005 χ^2 /NDF: 70062.3/29

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

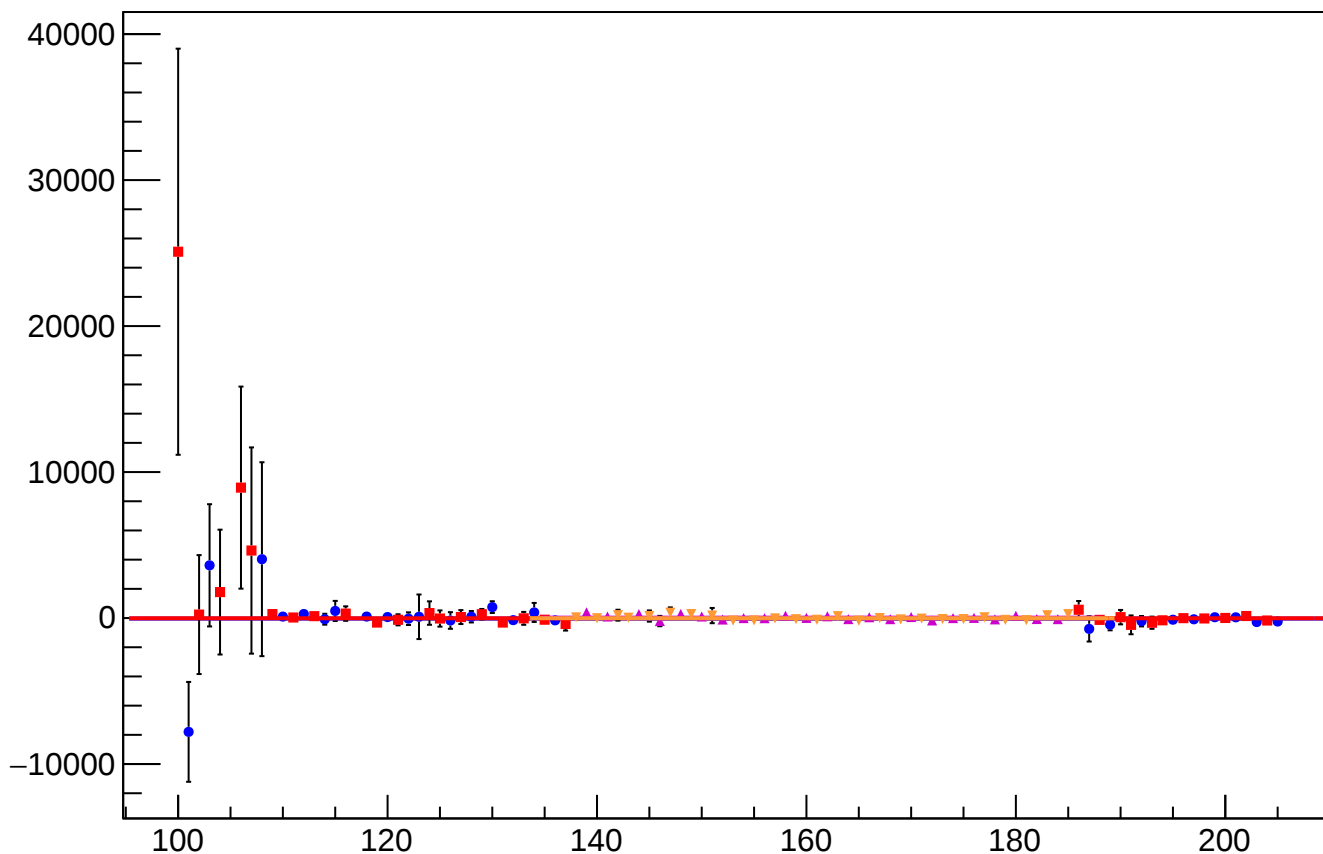
Right: 24.227 $\pm$ 0.003 χ^2 /NDF: 146217.0/55

In: 24.841 $\pm$ 0.003 χ^2 /NDF:136143.0/48

Out: 24.986 $\pm$ 0.003 χ^2 /NDF:156762.1/54

All: 24.916 $\pm$ 0.002 χ^2 /NDF: 293965.1/103

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.441 ± 53.513 χ^2/NDF : 20.3/25

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: -15.200 ± 53.417 χ^2/NDF : 15.8/29

Left In: 27.098 ± 45.999 χ^2/NDF : 7.2/22

Left: 8.758 ± 33.298 χ^2/NDF : 15.5/47

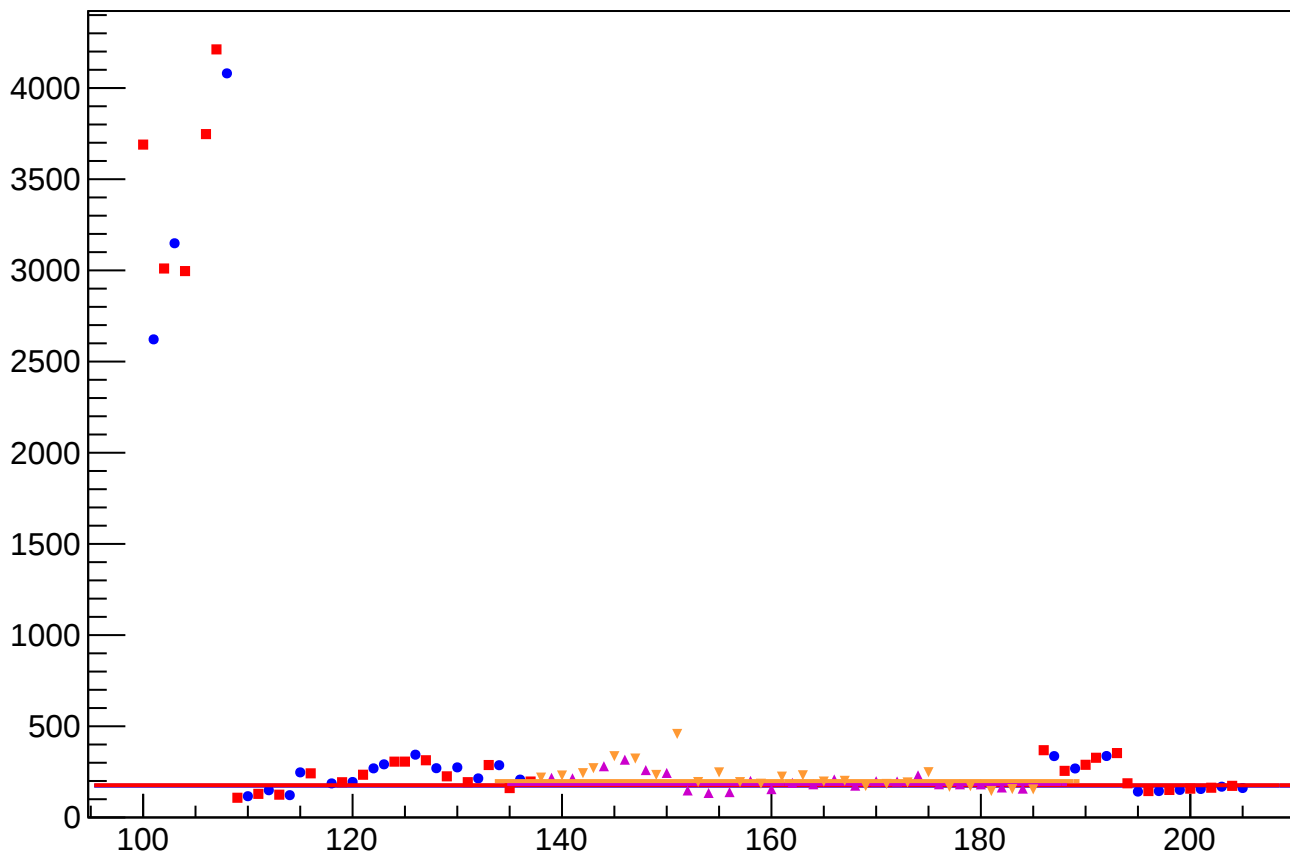
Right: -26.301 ± 37.805 χ^2/NDF : 36.1/55

In: -0.326 ± 34.883 χ^2/NDF : 28.3/48

Out: -13.126 ± 35.811 χ^2/NDF : 23.8/54

All: -6.558 ± 24.987 χ^2/NDF : 52.1/103

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.263 $\pm$ 0.038 χ^2 /NDF: 4478850.4/25

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 176.701 $\pm$ 0.038 χ^2 /NDF: 5307941.2/29

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

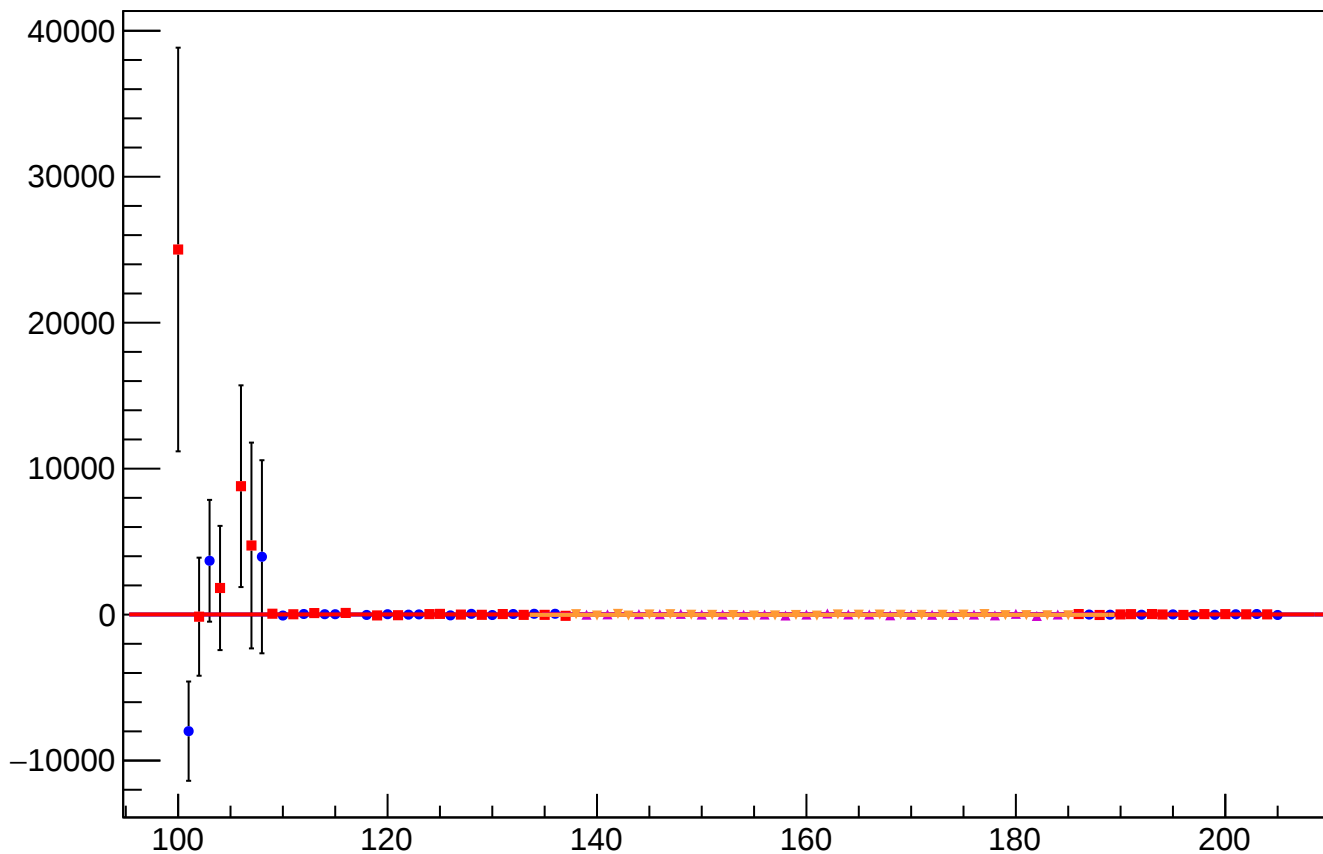
Right: 175.484 $\pm$ 0.027 χ^2 /NDF: 9788869.8/55

In: 179.751 $\pm$ 0.025 χ^2 /NDF: 5928288.2/48

Out: 189.219 $\pm$ 0.025 χ^2 /NDF: 7385298.7/54

All: 184.360 $\pm$ 0.018 χ^2 /NDF: 13385328.0/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.438+/-8.118 χ^2/NDF : 22.7/25

Left Out: -18.118+/-6.704 χ^2/NDF :21.7/24

Right Out: 13.319+/-7.912 χ^2/NDF : 28.7/29

Left In: 1.267+/-6.908 χ^2/NDF :32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

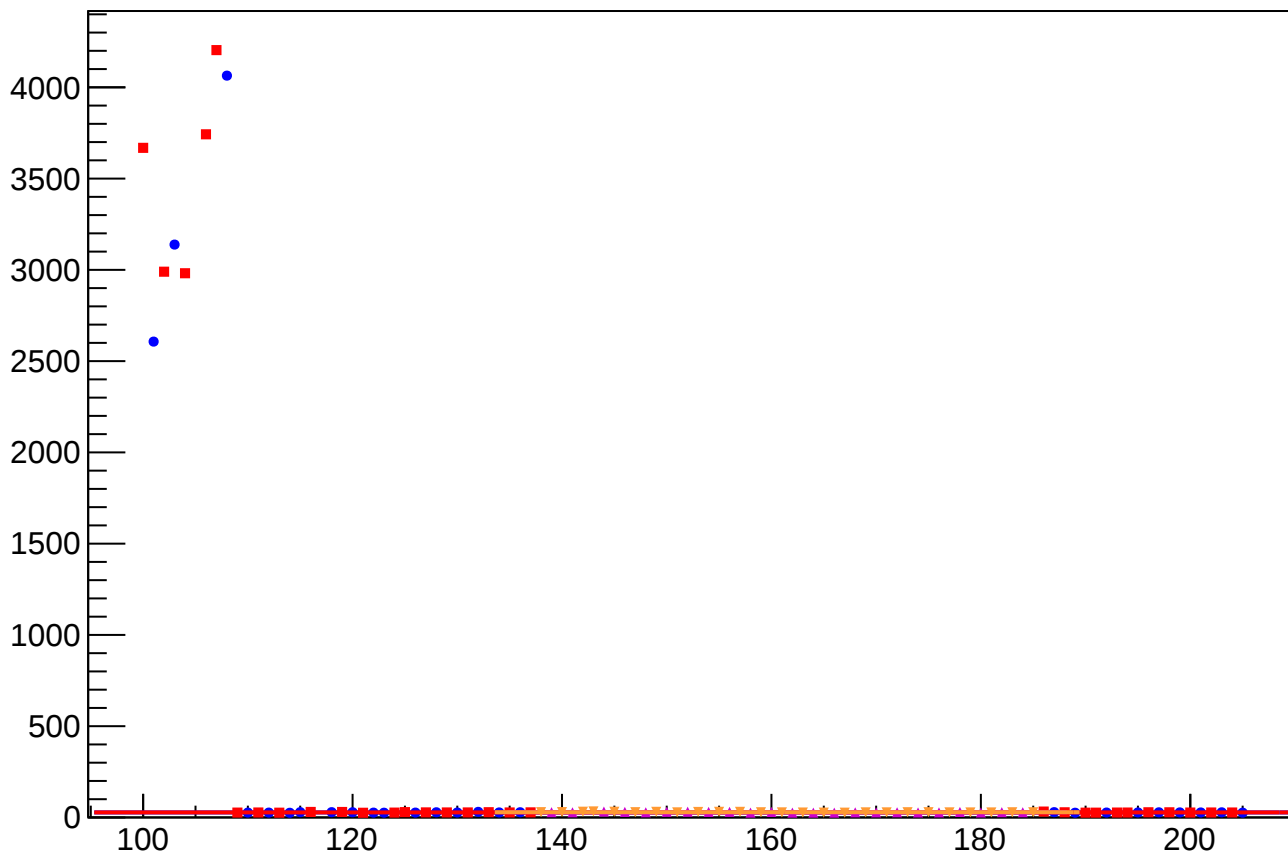
Right: 9.480+/-5.666 χ^2/NDF : 51.9/55

In: 3.019+/-5.261 χ^2/NDF :54.9/48

Out: -4.981+/-5.115 χ^2/NDF :59.6/54

All: -1.094+/-3.667 χ^2/NDF : 115.7/103

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.540 $\pm$ 0.006 χ^2 /NDF: 3039599.2/25

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF:110466.9/24

Right Out: 27.615 $\pm$ 0.006 χ^2 /NDF: 3503072.5/29

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF:123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

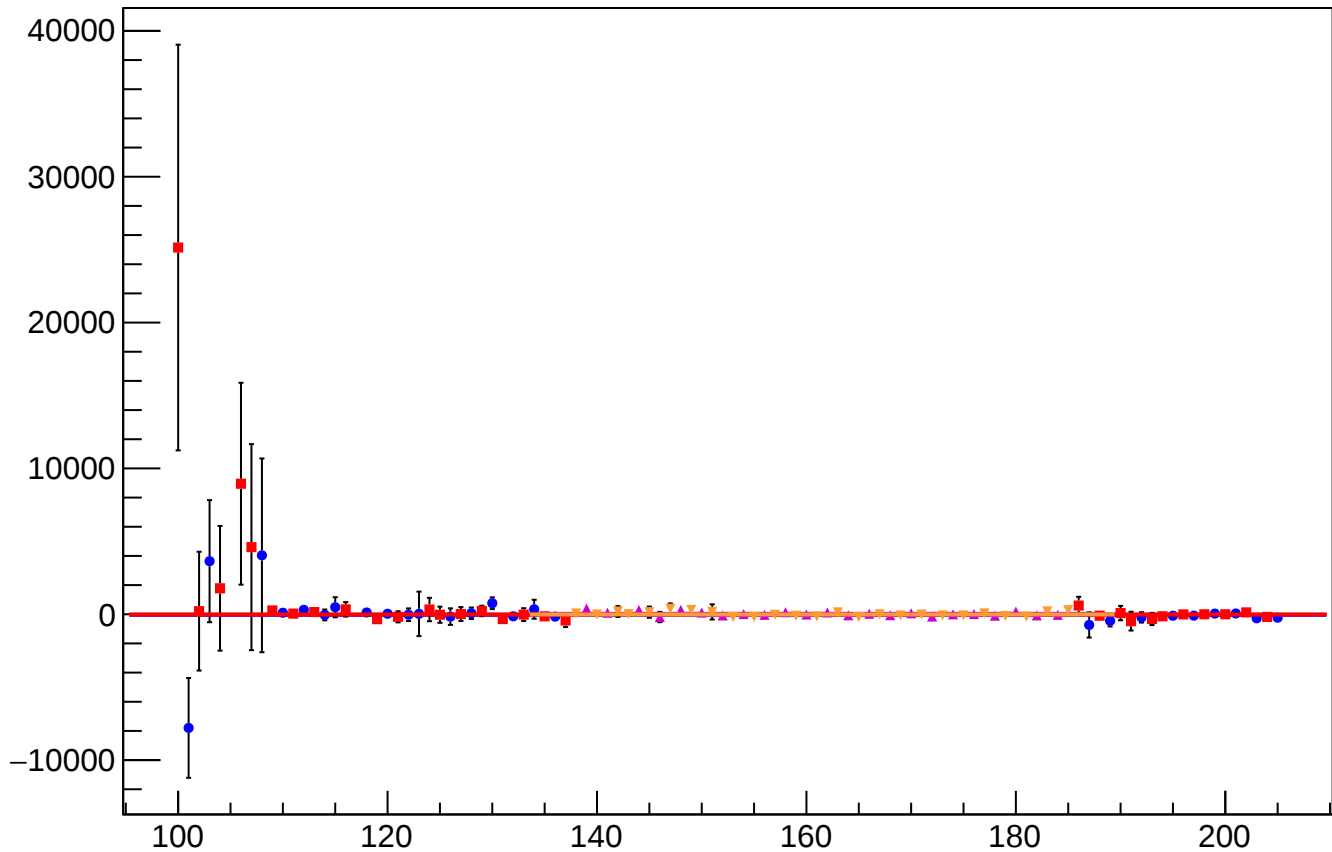
Right: 27.578 $\pm$ 0.004 χ^2 /NDF: 6542758.3/55

In: 28.199 $\pm$ 0.004 χ^2 /NDF:3186150.3/48

Out: 28.243 $\pm$ 0.004 χ^2 /NDF:3635190.0/54

All: 28.222 $\pm$ 0.003 χ^2 /NDF: 6821410.2/103

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -35.978 ± 53.346 $\chi^2/\text{NDF}: 20.6/25$

Left Out: -13.878 ± 48.155 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -17.388 ± 53.265 $\chi^2/\text{NDF}: 16.5/29$

Left In: 27.286 ± 45.907 $\chi^2/\text{NDF}: 7.5/22$

Left: 7.688 ± 33.228 $\chi^2/\text{NDF}: 16.7/47$

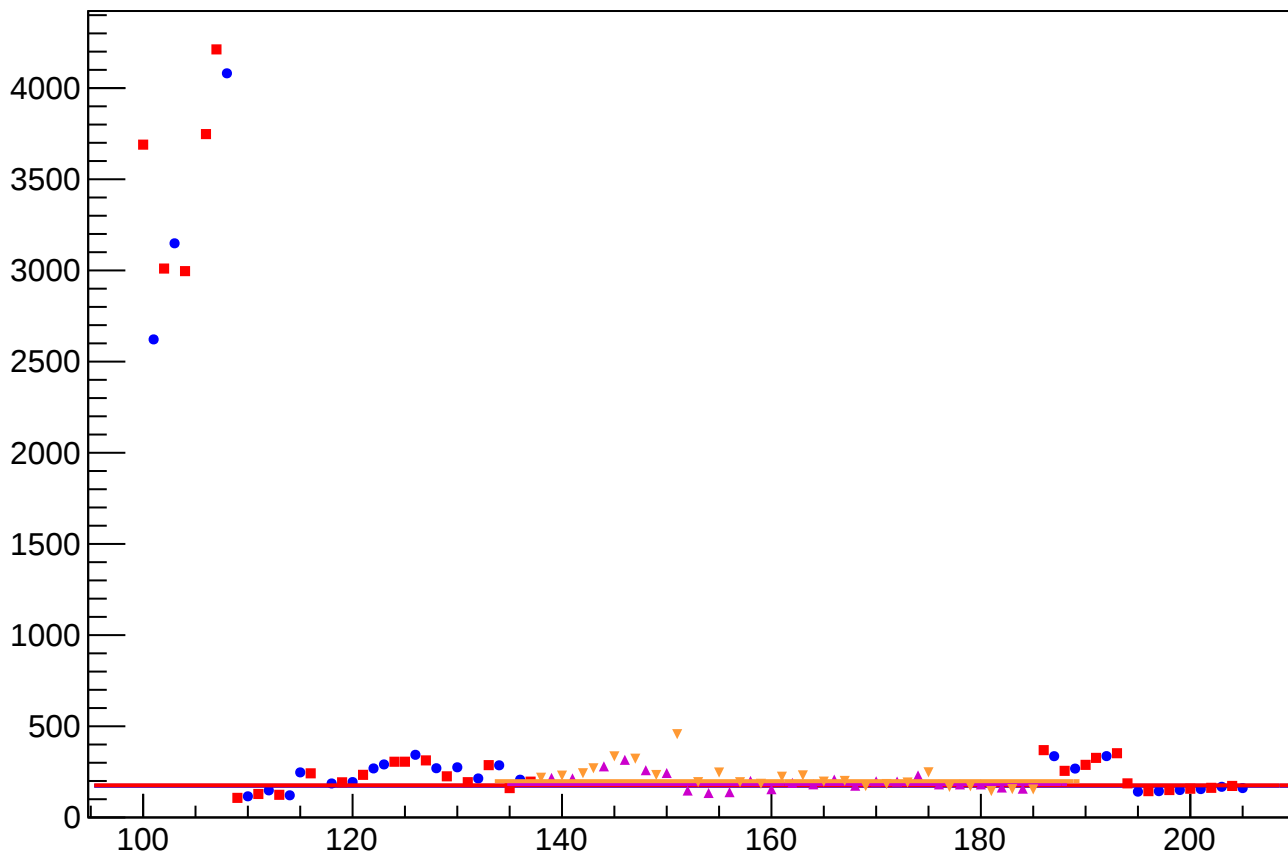
Right: -26.669 ± 37.693 $\chi^2/\text{NDF}: 37.1/55$

In: 0.369 ± 34.797 $\chi^2/\text{NDF}: 28.8/48$

Out: -15.457 ± 35.721 $\chi^2/\text{NDF}: 25.3/54$

All: -7.336 ± 24.925 $\chi^2/\text{NDF}: 54.2/103$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.669 $\pm$ 0.038 χ^2 /NDF: 4492020.4/25

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 176.132 $\pm$ 0.038 χ^2 /NDF: 5325423.1/29

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

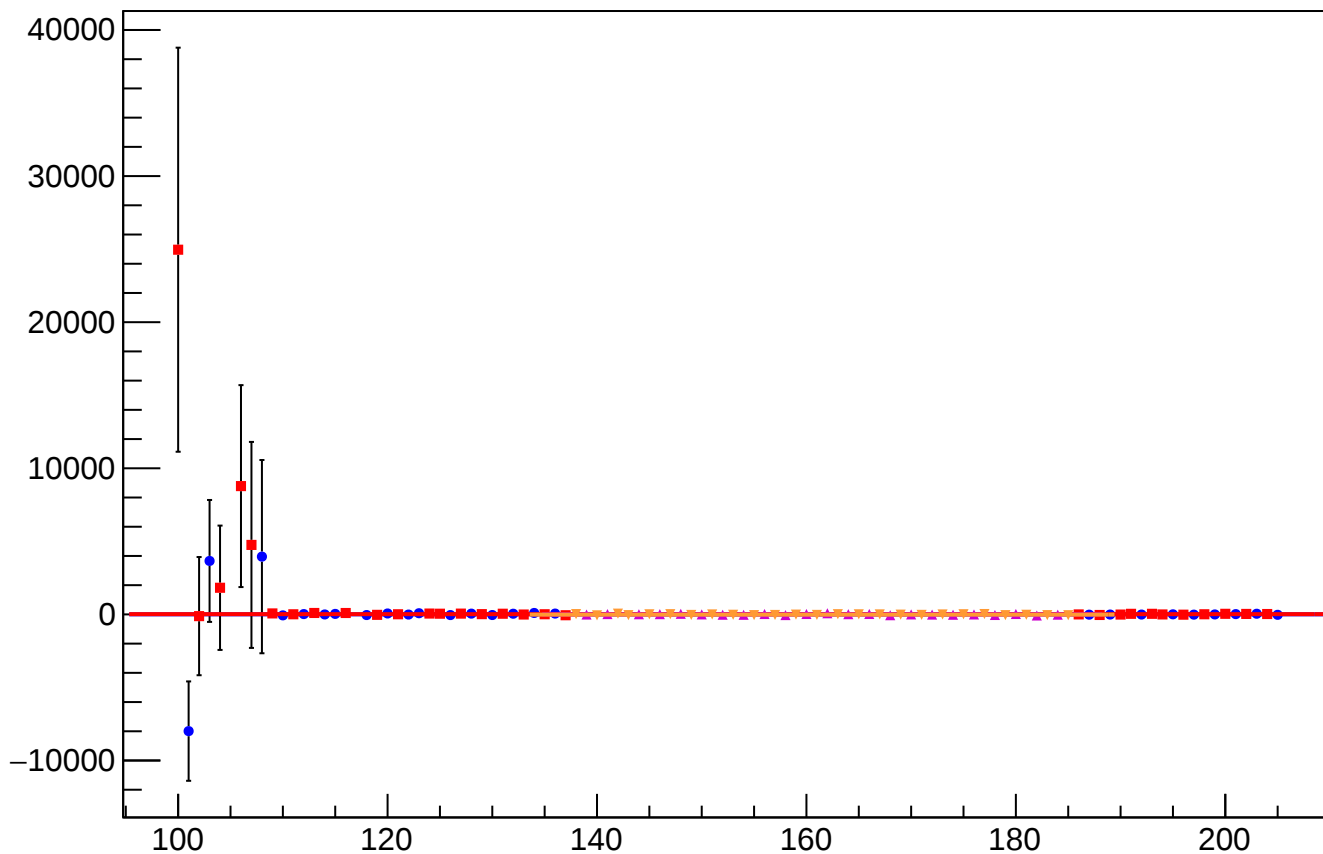
Right: 174.902 $\pm$ 0.027 χ^2 /NDF: 9819578.6/55

In: 179.284 $\pm$ 0.025 χ^2 /NDF: 5942924.3/48

Out: 188.713 $\pm$ 0.025 χ^2 /NDF: 7405842.3/54

All: 183.875 $\pm$ 0.018 χ^2 /NDF: 13420278.5/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.835+/-8.100 χ^2/NDF : 26.9/25

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 17.076+/-7.908 χ^2/NDF : 24.5/29

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

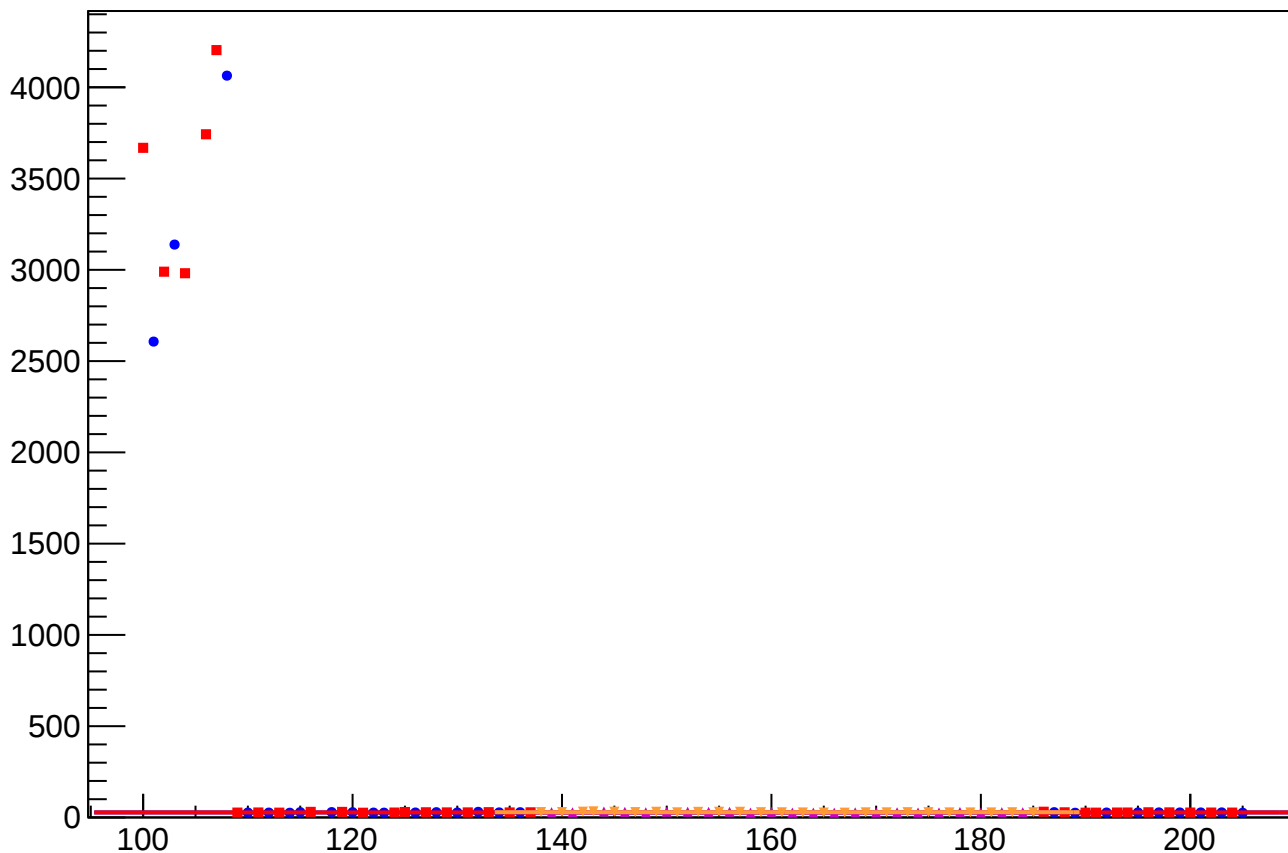
Right: 10.615+/-5.658 χ^2/NDF : 52.8/55

In: 1.335+/-5.269 χ^2/NDF : 53.2/48

Out: -2.000+/-5.127 χ^2/NDF : 51.1/54

All: -0.378+/-3.674 χ^2/NDF : 104.4/103

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.473 $\pm$ 0.006 χ^2 /NDF: 3044832.0/25

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.600 $\pm$ 0.006 χ^2 /NDF: 3502751.6/29

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

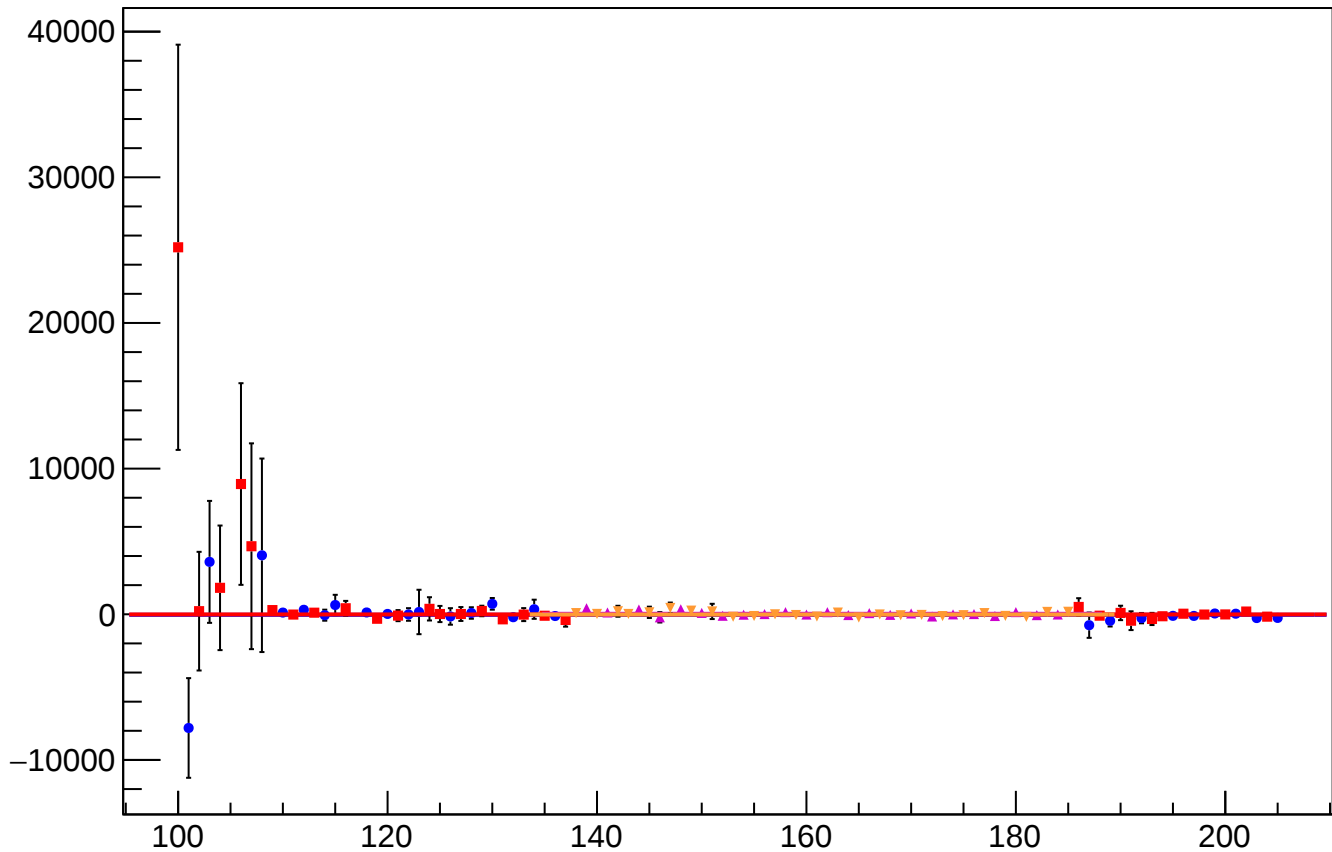
Right: 27.538 $\pm$ 0.004 χ^2 /NDF: 6547833.6/55

In: 28.237 $\pm$ 0.004 χ^2 /NDF: 3203935.3/48

Out: 28.304 $\pm$ 0.004 χ^2 /NDF: 3652246.9/54

All: 28.271 $\pm$ 0.003 χ^2 /NDF: 6856347.2/103

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.719 ± 53.721 $\chi^2/\text{NDF}: 20.8/25$

Left Out: -13.966 ± 48.735 $\chi^2/\text{NDF}: 8.1/24$

Right Out: -10.738 ± 53.690 $\chi^2/\text{NDF}: 15.9/29$

Left In: 31.477 ± 46.483 $\chi^2/\text{NDF}: 7.8/22$

Left: 9.830 ± 33.637 $\chi^2/\text{NDF}: 16.4/47$

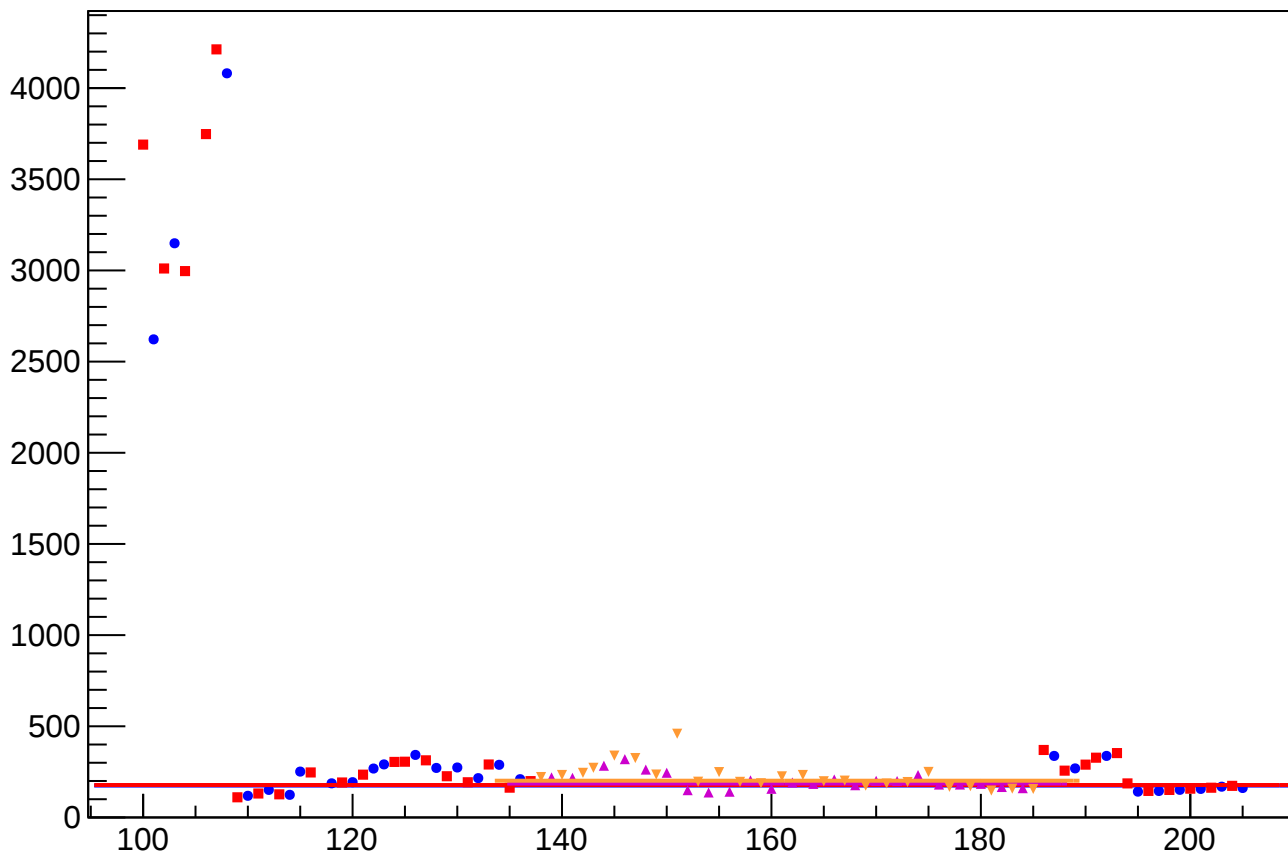
Right: -24.221 ± 37.976 $\chi^2/\text{NDF}: 36.9/55$

In: 1.852 ± 35.151 $\chi^2/\text{NDF}: 29.6/48$

Out: -12.507 ± 36.086 $\chi^2/\text{NDF}: 24.1/54$

All: -5.140 ± 25.180 $\chi^2/\text{NDF}: 53.8/103$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.013 $\pm$ 0.038 χ^2 /NDF: 4460247.3/25

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 177.809 $\pm$ 0.038 χ^2 /NDF: 5263366.5/29

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

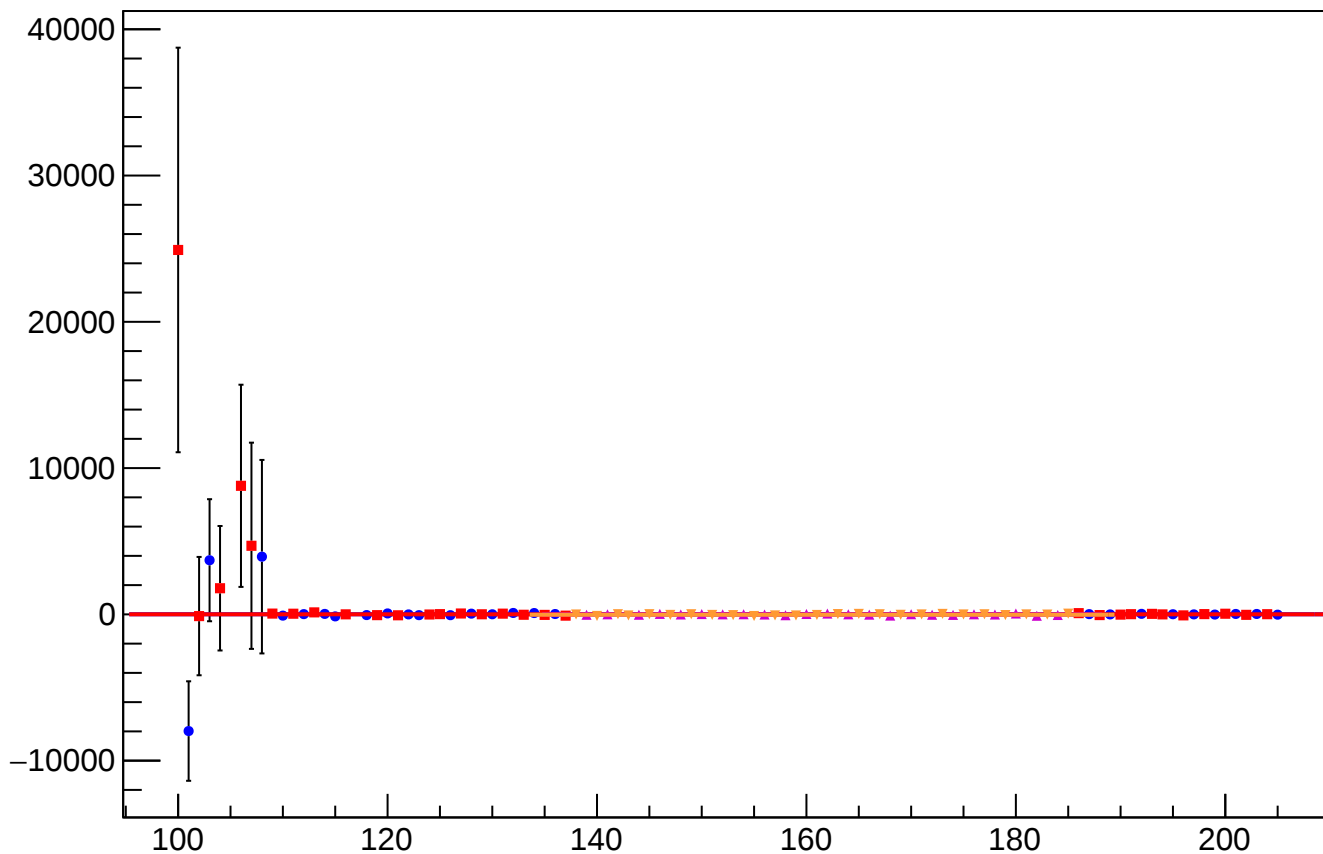
Right: 176.412 $\pm$ 0.027 χ^2 /NDF: 9726323.1/55

In: 181.227 $\pm$ 0.025 χ^2 /NDF:5887908.7/48

Out: 190.799 $\pm$ 0.026 χ^2 /NDF:7331826.3/54

All: 185.887 $\pm$ 0.018 χ^2 /NDF: 13291952.1/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.863+/-9.884 χ^2/NDF : 22.4/25

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: 4.931+/-9.637 χ^2/NDF : 31.7/29

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

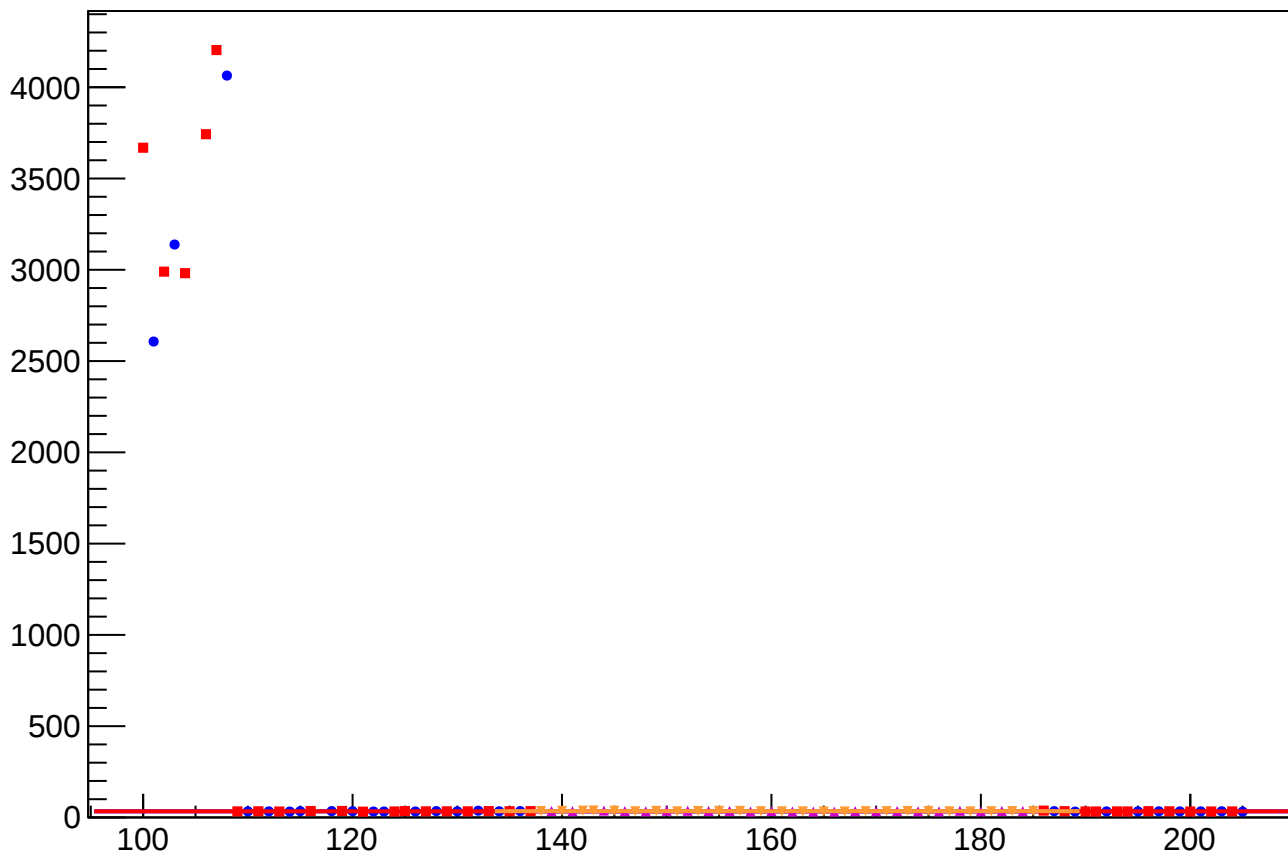
Right: 6.360+/-6.900 χ^2/NDF : 54.1/55

In: -0.190+/-6.374 χ^2/NDF : 44.5/48

Out: -12.149+/-6.190 χ^2/NDF : 61.9/54

All: -6.345+/-4.441 χ^2/NDF : 108.3/103

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.548 $\pm$ 0.007 χ^2 /NDF: 3017357.2/25

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.685 $\pm$ 0.007 χ^2 /NDF: 3466370.1/29

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

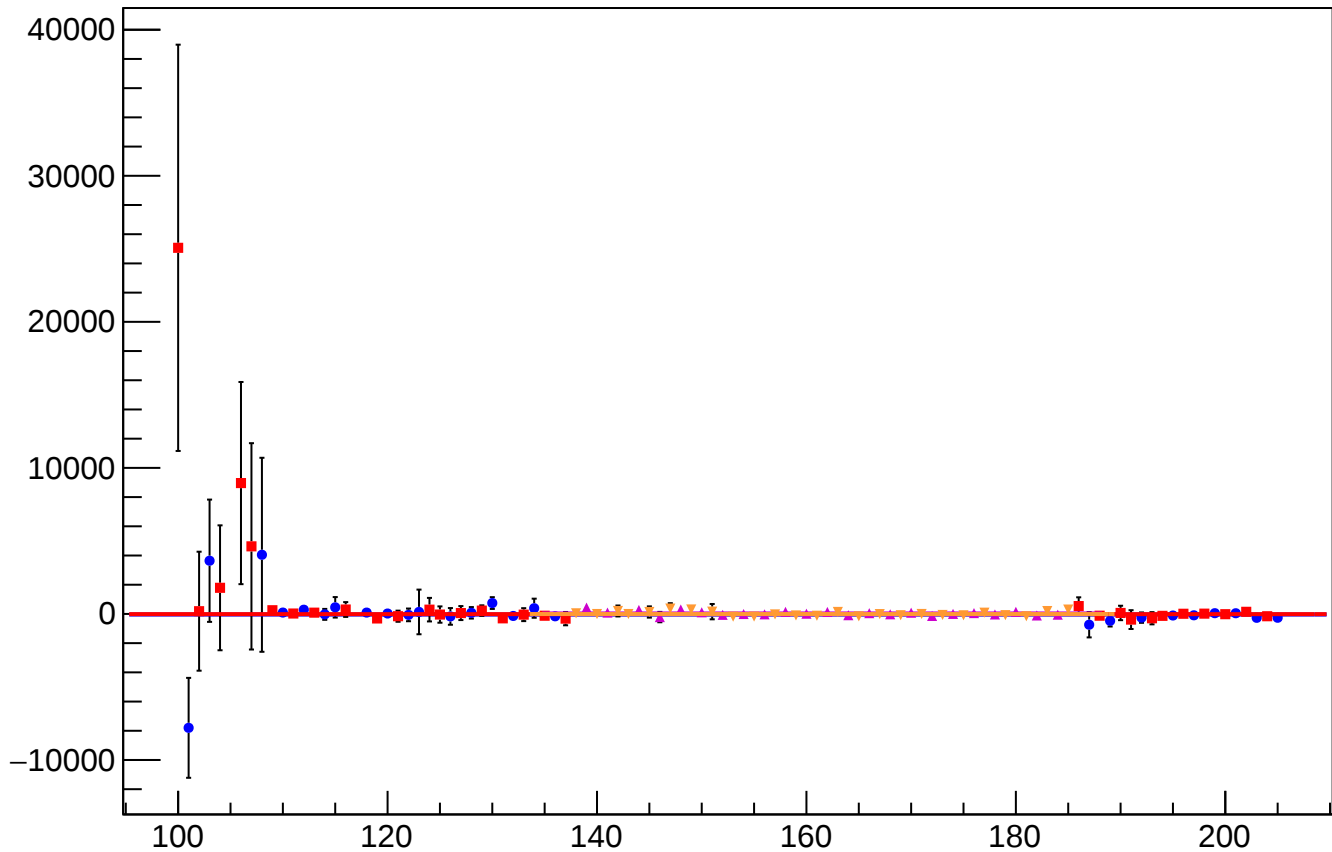
Right: 33.619 $\pm$ 0.005 χ^2 /NDF: 6483925.1/55

In: 34.210 $\pm$ 0.005 χ^2 /NDF: 3092557.7/48

Out: 34.233 $\pm$ 0.004 χ^2 /NDF: 3535226.5/54

All: 34.222 $\pm$ 0.003 χ^2 /NDF: 6627797.2/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -42.311+/-53.560 χ^2/NDF : 20.6/25

Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24

Right Out: -13.900+/-53.470 χ^2/NDF : 14.3/29

Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47

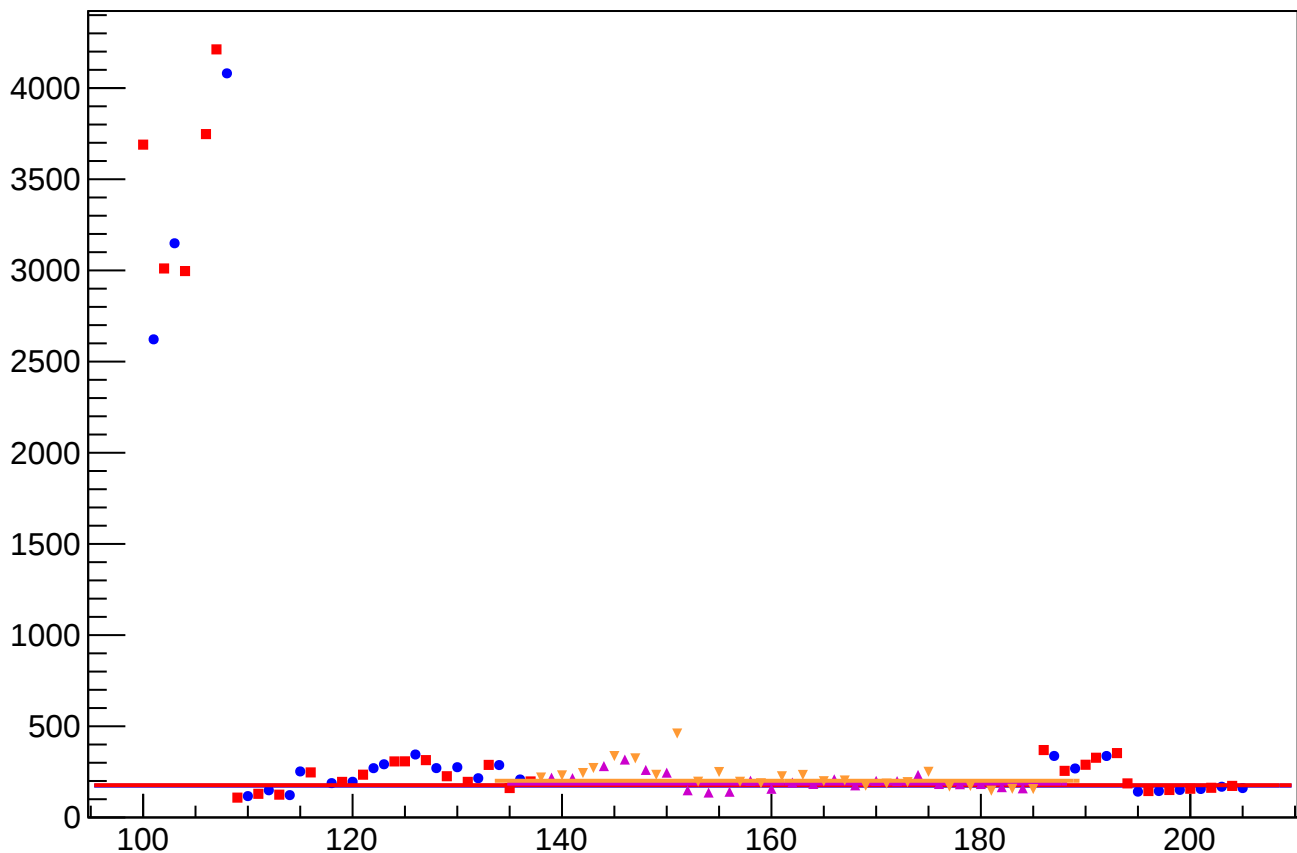
Right: -28.082+/-37.841 χ^2/NDF : 35.0/55

In: 1.824+/-35.079 χ^2/NDF : 28.9/48

Out: -10.431+/-35.989 χ^2/NDF : 23.1/54

All: -4.146+/-25.120 χ^2/NDF : 52.0/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.381 $\pm$ 0.038 χ^2 /NDF: 4489338.1/25

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 176.871 $\pm$ 0.038 χ^2 /NDF: 5313614.8/29

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

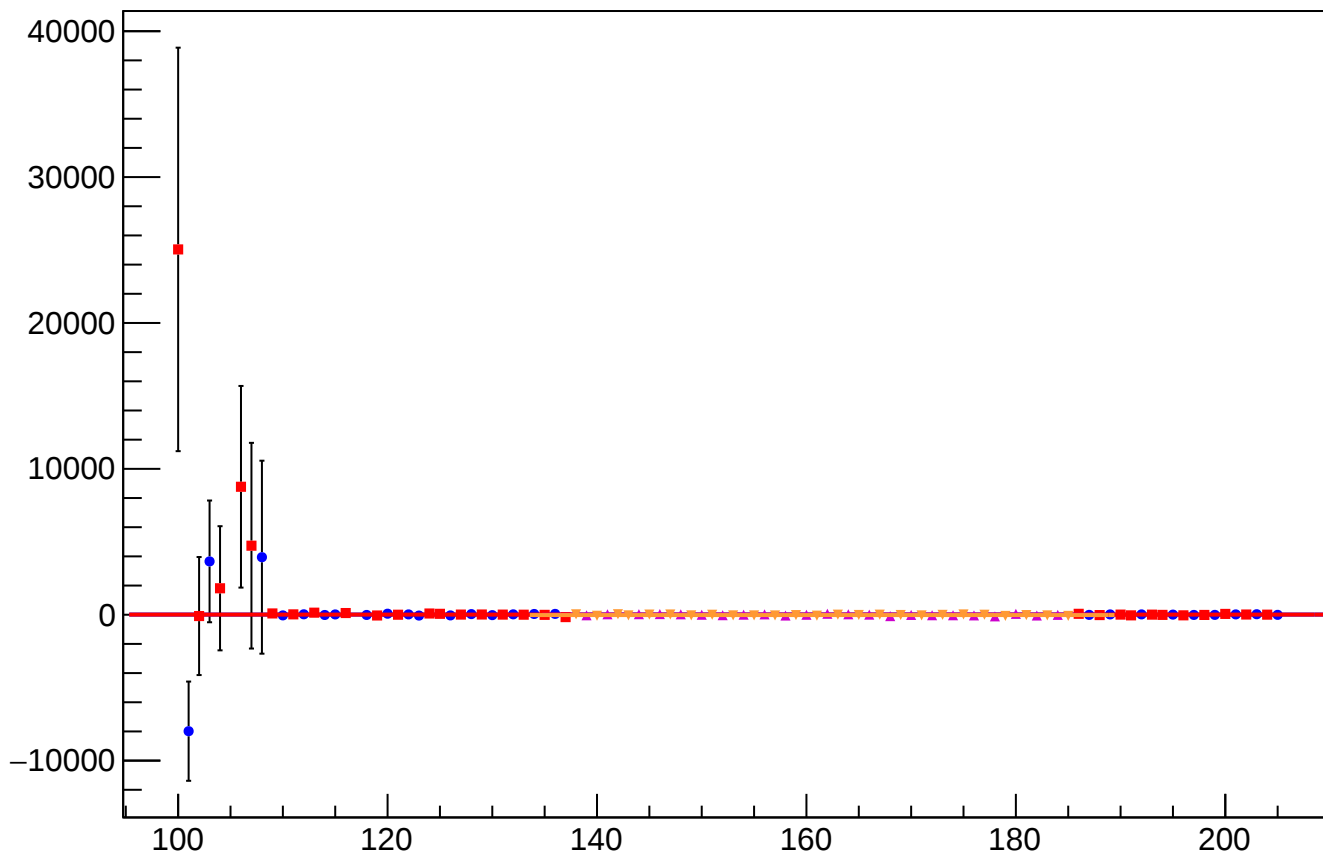
Right: 175.628 $\pm$ 0.027 χ^2 /NDF: 9805117.3/55

In: 180.803 $\pm$ 0.025 χ^2 /NDF:5911106.2/48

Out: 190.177 $\pm$ 0.025 χ^2 /NDF:7388504.7/54

All: 185.370 $\pm$ 0.018 χ^2 /NDF: 13369192.7/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.274+/-8.950 χ^2/NDF : 16.9/25

Left Out: -23.320+/-7.352 χ^2/NDF : 18.3/24

Right Out: 9.726+/-8.734 χ^2/NDF : 36.2/29

Left In: -6.386+/-7.577 χ^2/NDF : 38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

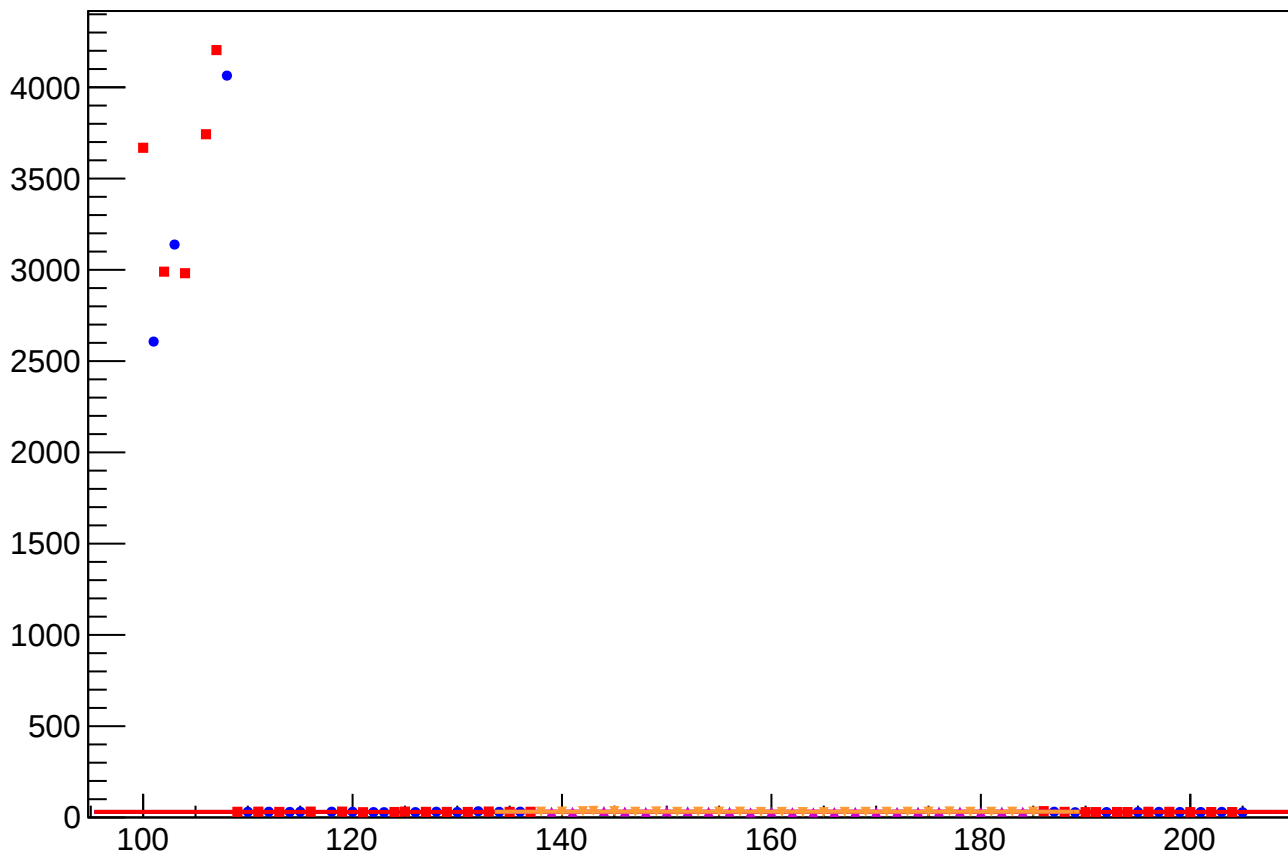
Right: 10.481+/-6.251 χ^2/NDF : 53.1/55

In: 0.987+/-5.783 χ^2/NDF : 57.9/48

Out: -9.615+/-5.624 χ^2/NDF : 62.9/54

All: -4.461+/-4.032 χ^2/NDF : 122.5/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.368 $\pm$ 0.006 χ^2 /NDF: 3034759.5/25

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.501 $\pm$ 0.006 χ^2 /NDF: 3482188.7/29

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF:87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

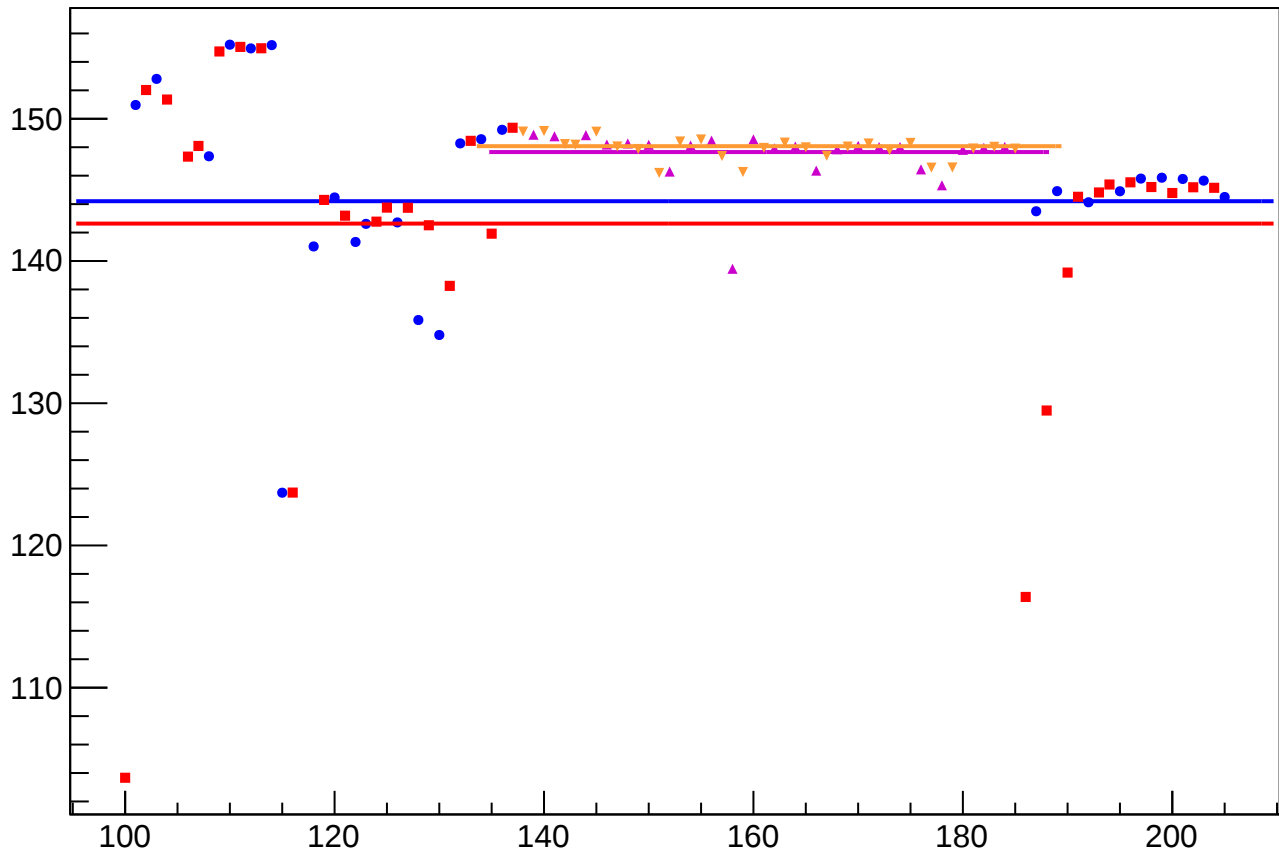
Right: 30.436 $\pm$ 0.004 χ^2 /NDF: 6517175.9/55

In: 31.013 $\pm$ 0.004 χ^2 /NDF:3140396.1/48

Out: 31.079 $\pm$ 0.004 χ^2 /NDF:3579081.5/54

All: 31.047 $\pm$ 0.003 χ^2 /NDF: 6719611.6/103

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.205 $\pm$ 0.000 χ^2 /NDF: 3482959528.2/25

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.631 $\pm$ 0.000 χ^2 /NDF: 7392236268.4/29

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

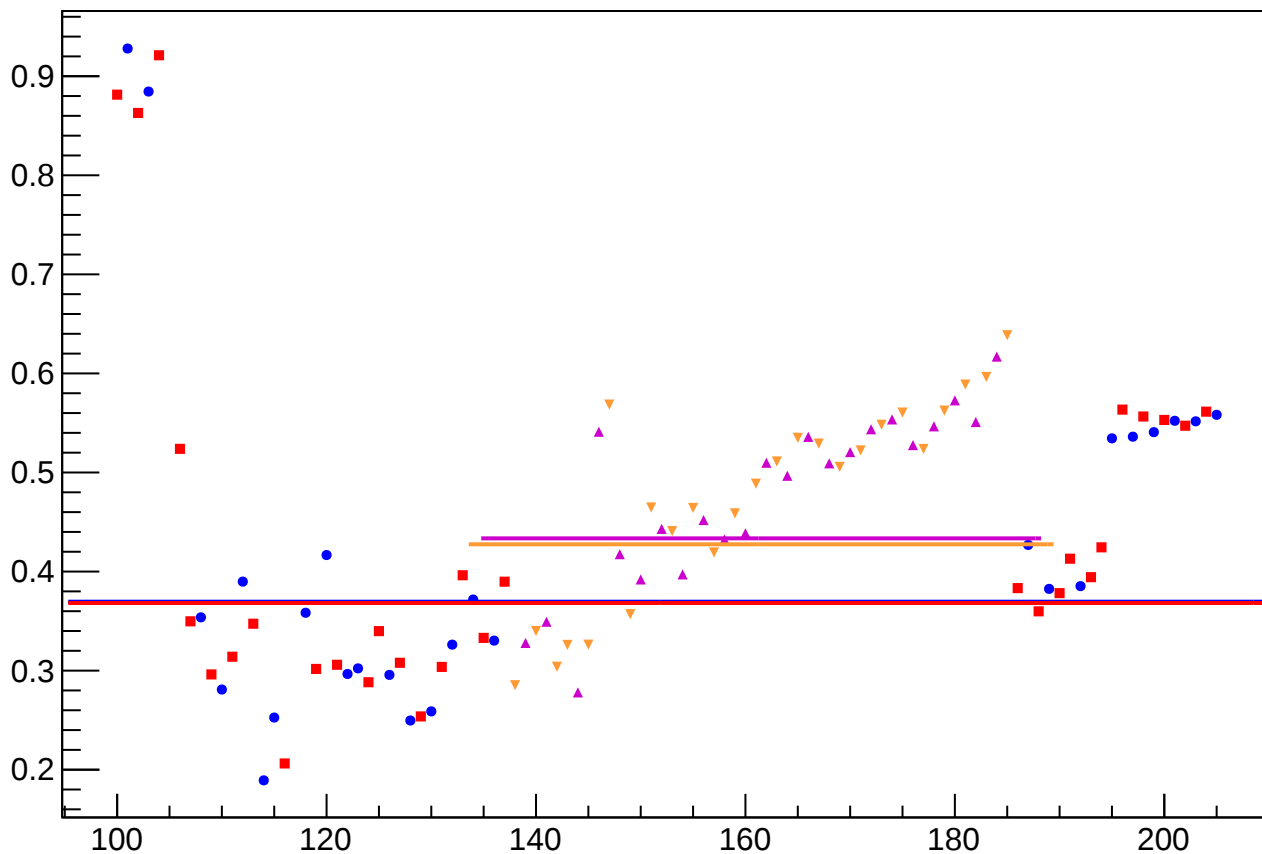
Right: 143.374 $\pm$ 0.000 χ^2 /NDF: 10980393014.0/55

In: 145.989 $\pm$ 0.000 χ^2 /NDF: 4322550058.0/48

Out: 145.392 $\pm$ 0.000 χ^2 /NDF: 8809462105.6/54

All: 145.677 $\pm$ 0.000 χ^2 /NDF: 13163024753.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.000 χ^2 /NDF: 2535712.9/25

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.368 $\pm$ 0.000 χ^2 /NDF: 2321818.6/29

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

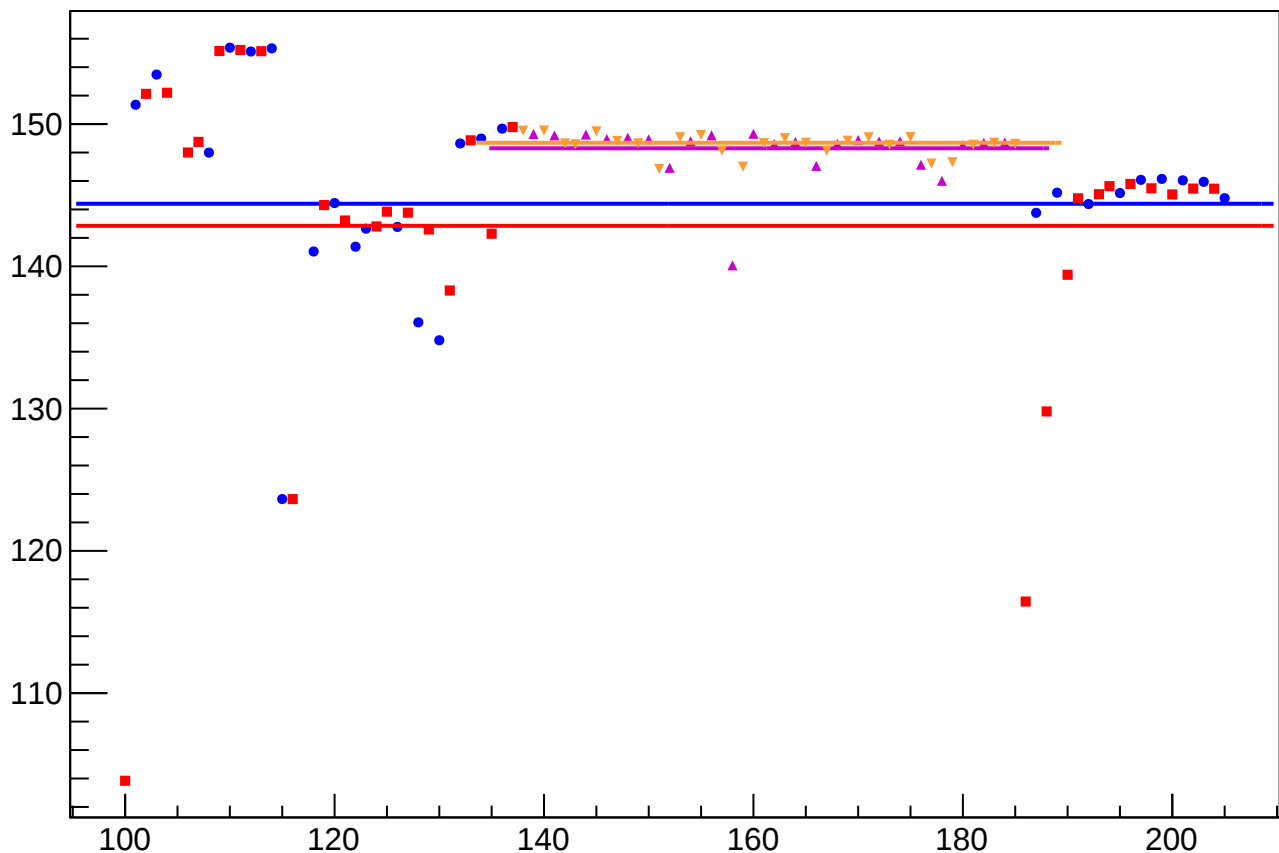
Right: 0.369 $\pm$ 0.000 χ^2 /NDF: 4857669.1/55

In: 0.403 $\pm$ 0.000 χ^2 /NDF:4354491.8/48

Out: 0.398 $\pm$ 0.000 χ^2 /NDF:4534579.0/54

All: 0.400 $\pm$ 0.000 χ^2 /NDF: 8892205.1/103

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.400 $\pm$ 0.000 χ^2 /NDF: 3531104643.6/25

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.849 $\pm$ 0.000 χ^2 /NDF: 7340305617.6/29

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

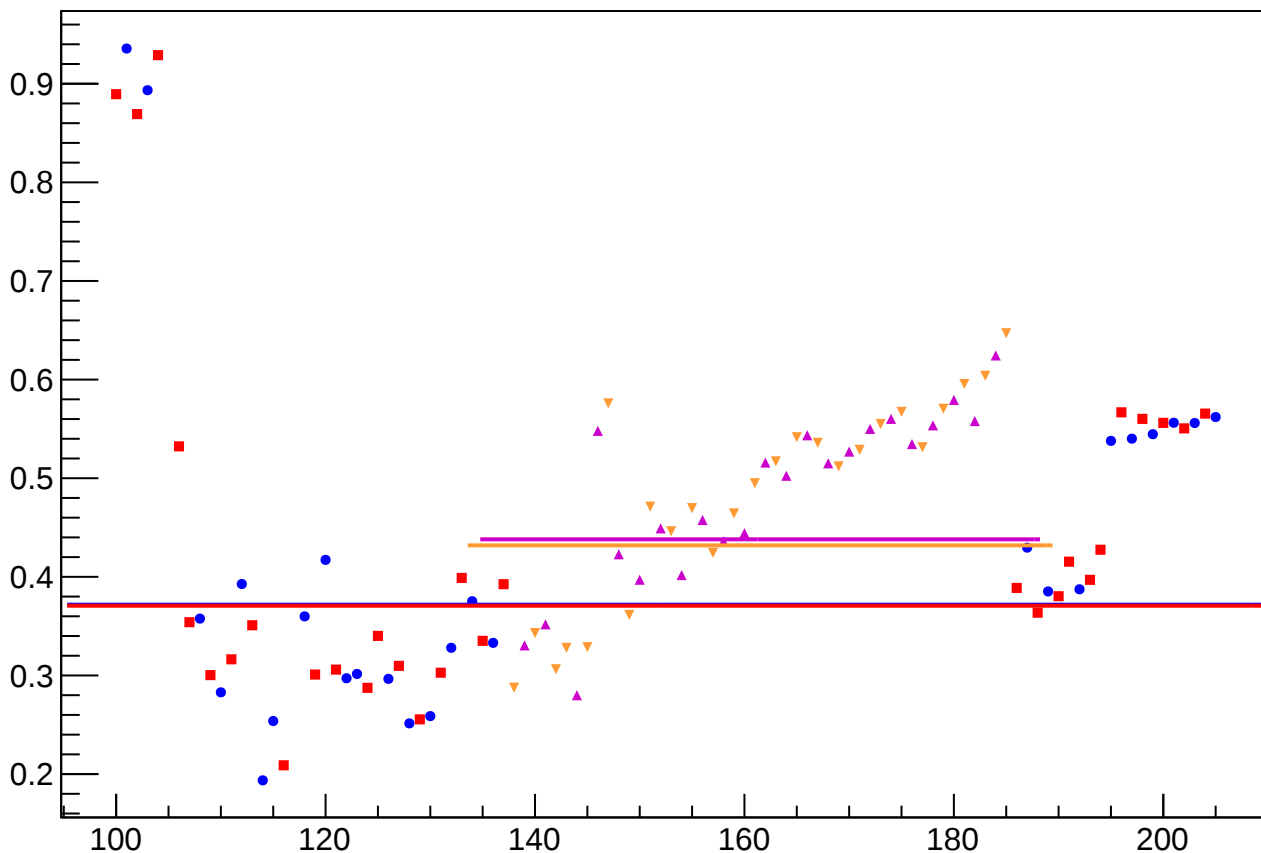
Right: 143.582 $\pm$ 0.000 χ^2 /NDF: 10972237863.3/55

In: 146.404 $\pm$ 0.000 χ^2 /NDF: 4483919224.4/48

Out: 145.799 $\pm$ 0.000 χ^2 /NDF: 8920691512.3/54

All: 146.088 $\pm$ 0.000 χ^2 /NDF: 13435843183.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.000 χ^2 /NDF: 2542834.8/25

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.371 $\pm$ 0.000 χ^2 /NDF: 2326004.7/29

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

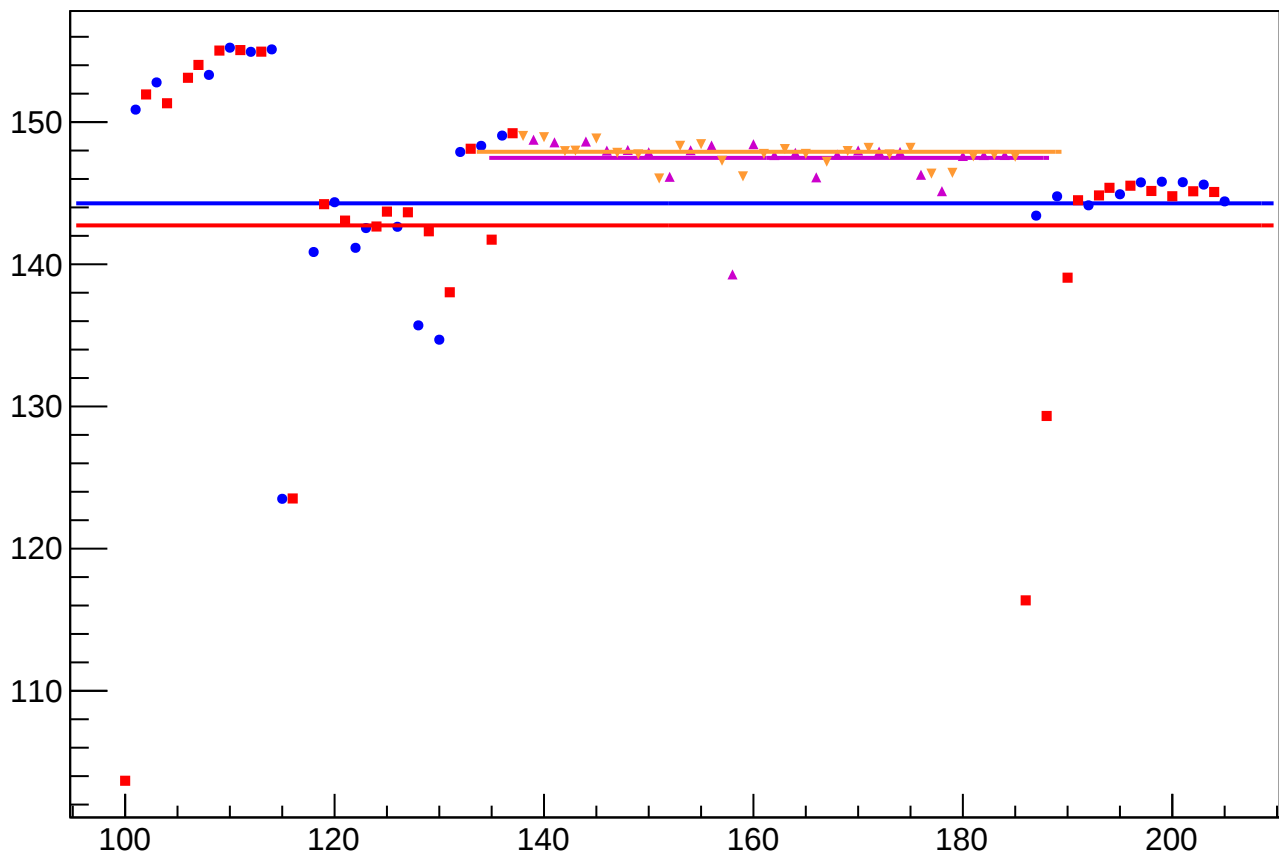
Right: 0.371 $\pm$ 0.000 χ^2 /NDF: 4868928.7/55

In: 0.406 $\pm$ 0.000 χ^2 /NDF:4406246.9/48

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:4586573.9/54

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 8995820.4/103

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.287 $\pm$ 0.000 χ^2 /NDF: 3689821710.6/25

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.734 $\pm$ 0.000 χ^2 /NDF: 7771716707.7/29

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

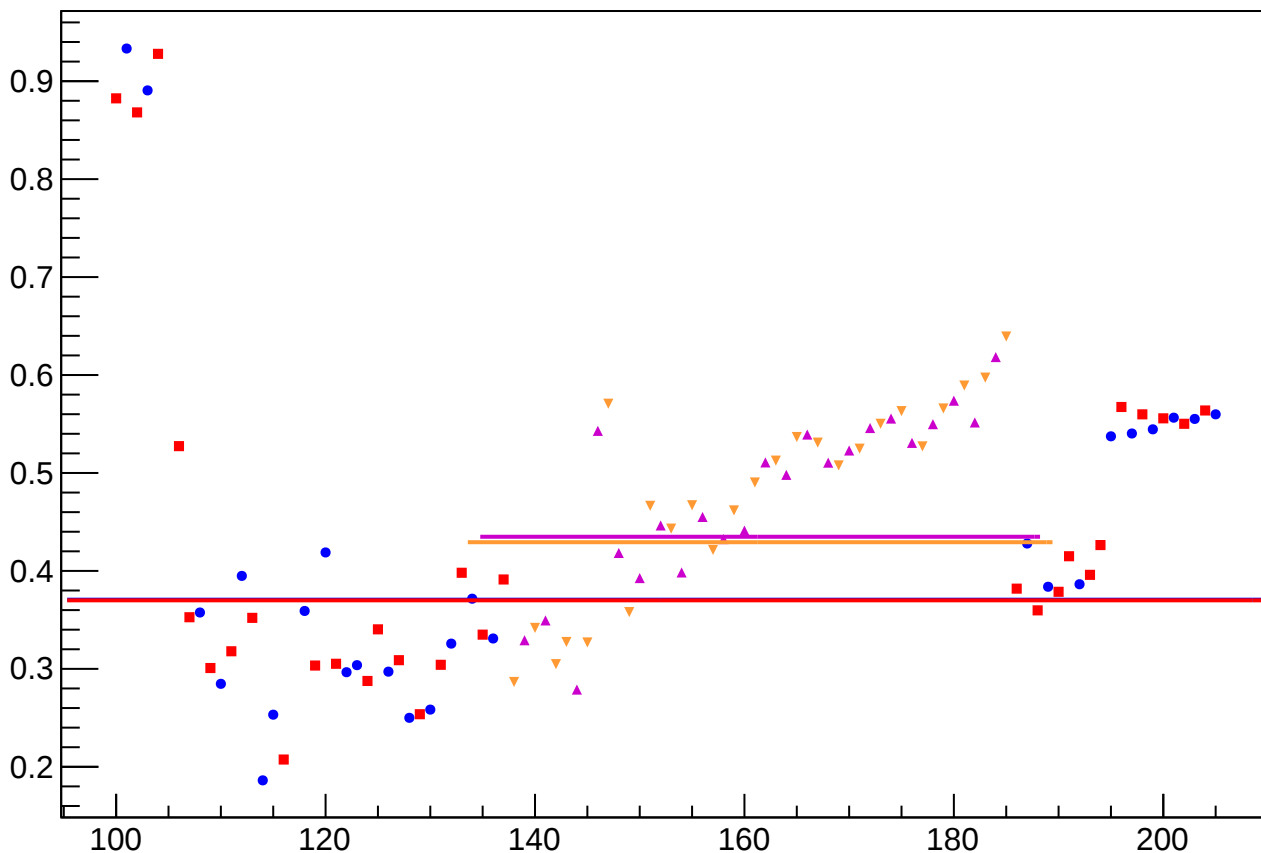
Right: 143.468 $\pm$ 0.000 χ^2 /NDF: 11563016893.5/55

In: 145.938 $\pm$ 0.000 χ^2 /NDF: 4453869599.1/48

Out: 145.362 $\pm$ 0.000 χ^2 /NDF: 9048635103.0/54

All: 145.637 $\pm$ 0.000 χ^2 /NDF: 13531138244.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.371+/-0.000 χ^2/NDF : 2566207.4/25

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.370+/-0.000 χ^2/NDF : 2326694.8/29

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

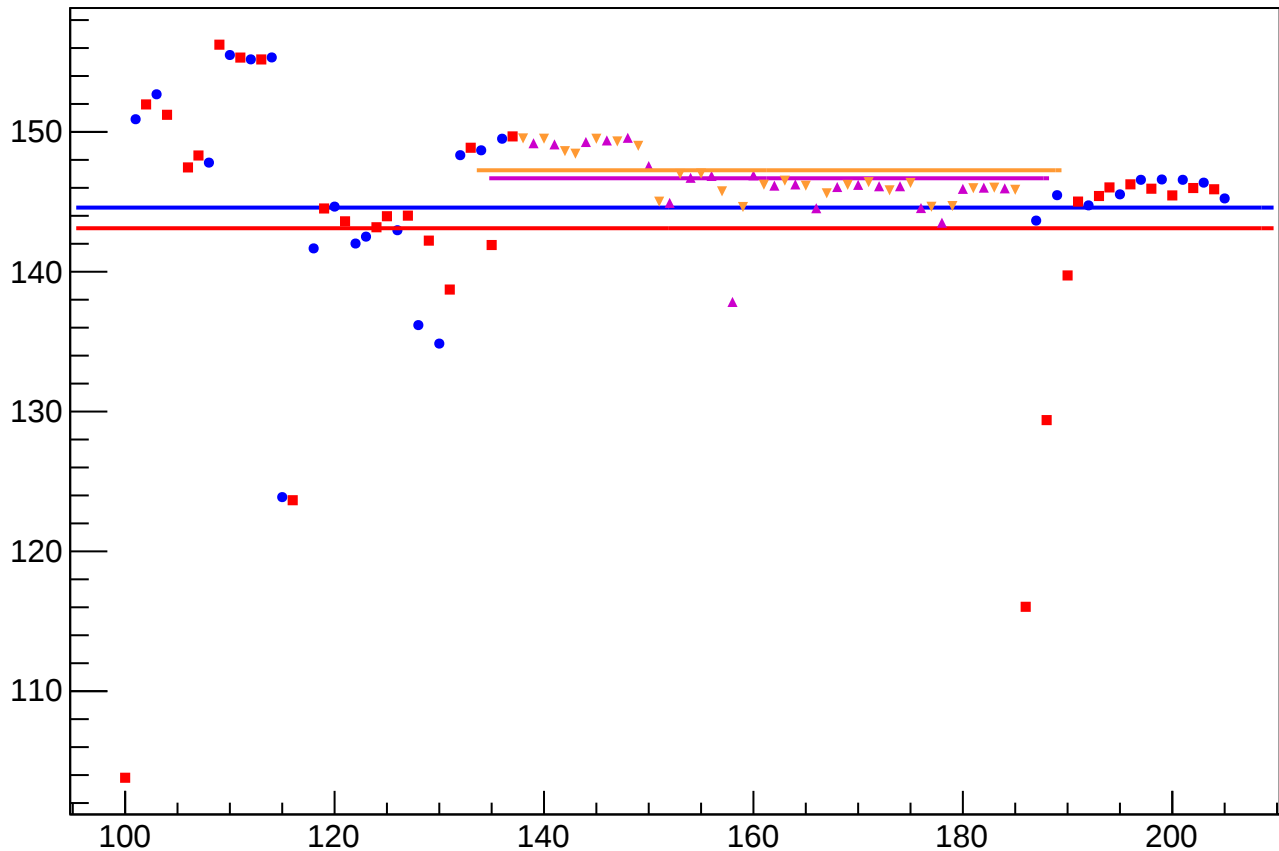
Right: 0.370+/-0.000 χ^2/NDF : 4892938.7/55

In: 0.404+/-0.000 χ^2/NDF :4392665.7/48

Out: 0.400+/-0.000 χ^2/NDF :4536934.5/54

All: 0.402+/-0.000 χ^2/NDF : 8932008.1/103

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.588 ± 0.000 χ^2/NDF : 3213654407.2/25

Left Out: 147.257 ± 0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.111 ± 0.000 χ^2/NDF : 7104903386.0/29

Left In: 146.685 ± 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 ± 0.000 χ^2/NDF : 830580031.2/47

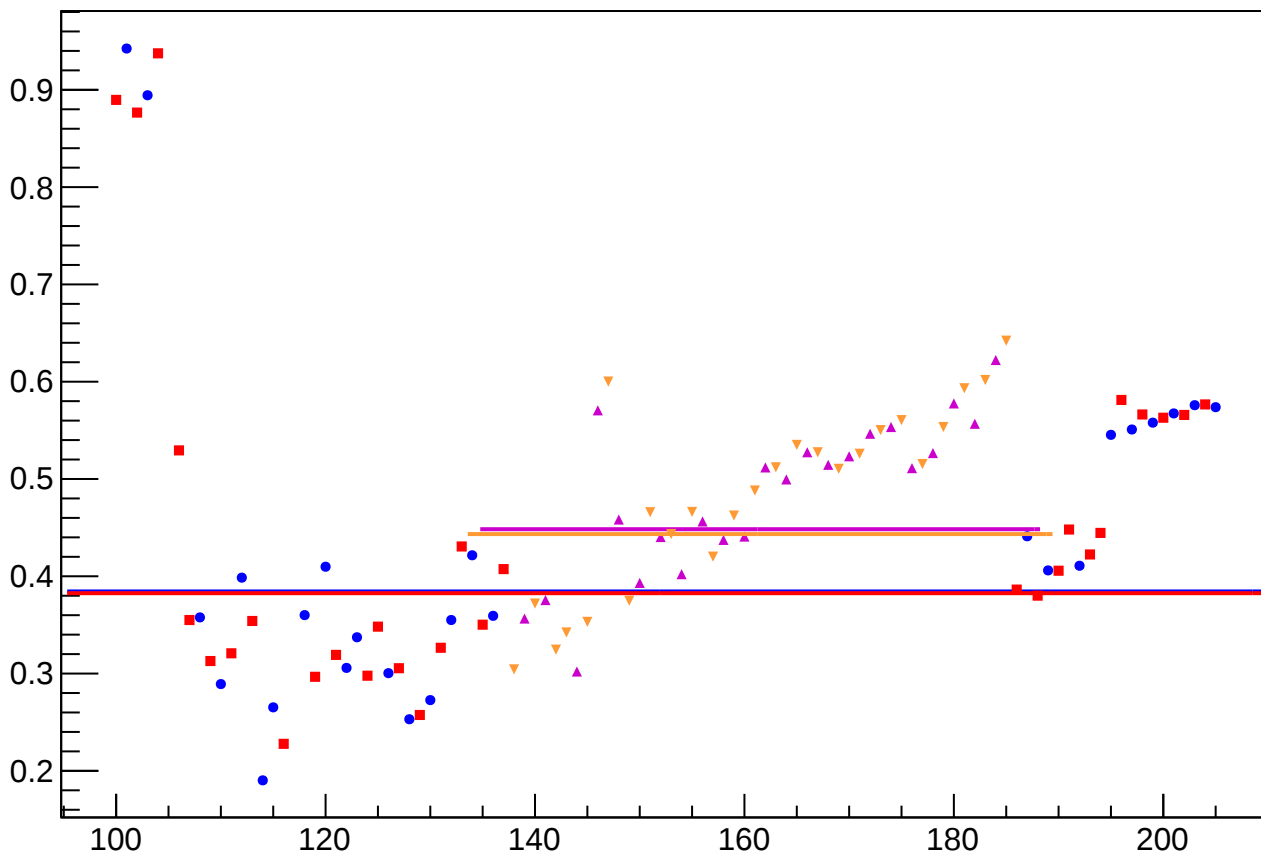
Right: 143.807 ± 0.000 χ^2/NDF : 10404050788.8/55

In: 145.683 ± 0.000 χ^2/NDF : 3938842515.0/48

Out: 145.230 ± 0.000 χ^2/NDF : 8097498613.5/54

All: 145.446 ± 0.000 χ^2/NDF : 12053009293.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.384 $\pm$ 0.000 χ^2 /NDF: 2504481.1/25

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.383 $\pm$ 0.000 χ^2 /NDF: 2267045.0/29

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

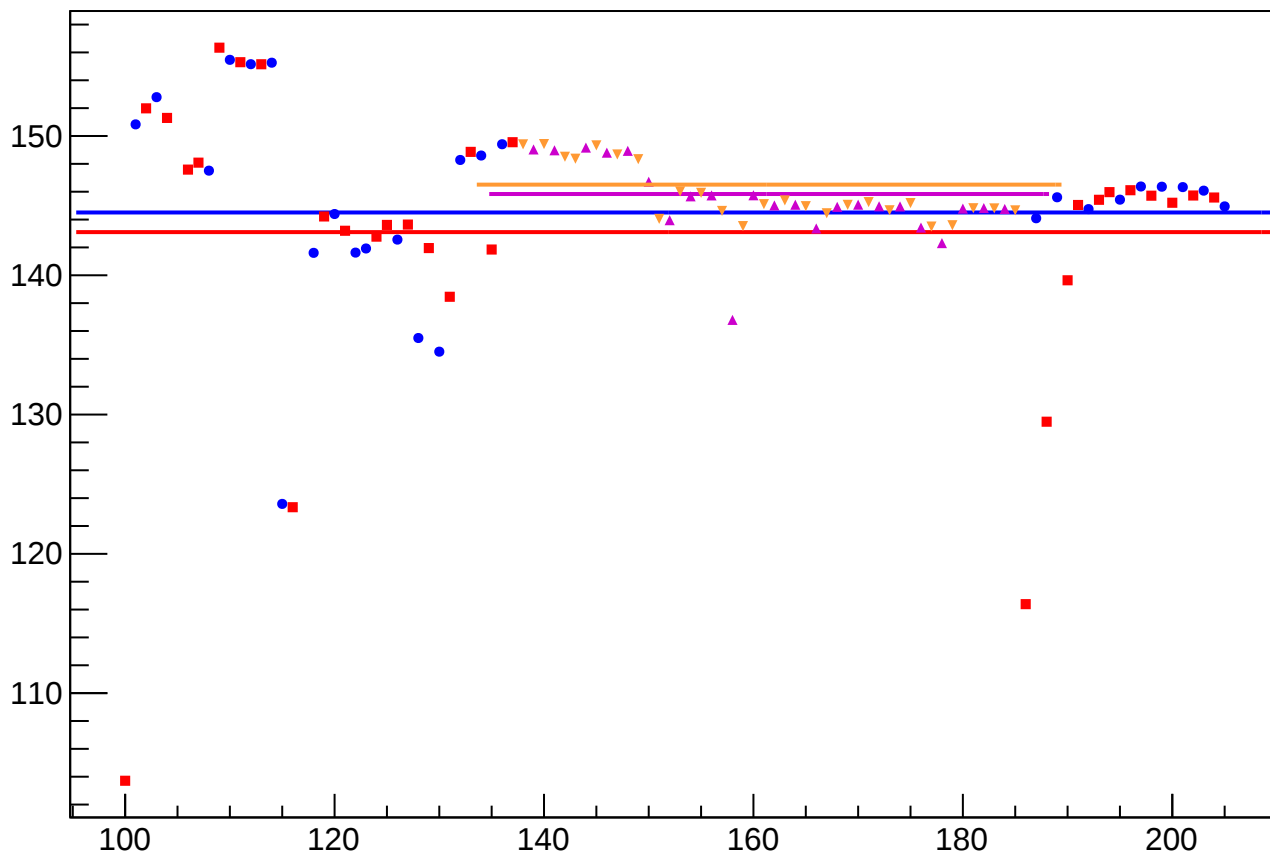
Right: 0.383 $\pm$ 0.000 χ^2 /NDF: 4771773.5/55

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3941919.7/48

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:4061468.8/54

All: 0.416 $\pm$ 0.000 χ^2 /NDF: 8006178.2/103

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.509 $\pm$ 0.000 χ^2 /NDF: 3324971199.9/25

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.099 $\pm$ 0.000 χ^2 /NDF: 7062764243.5/29

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

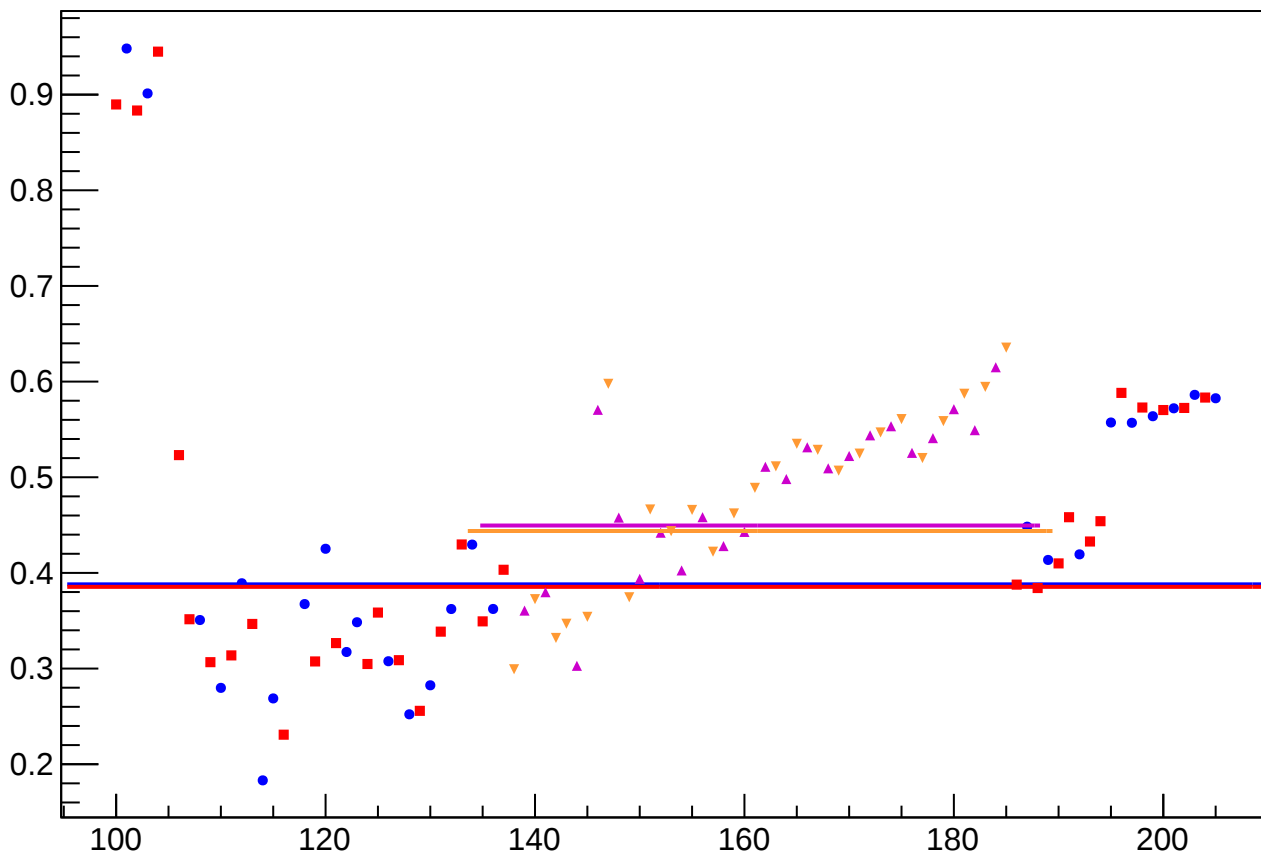
Right: 143.762 $\pm$ 0.000 χ^2 /NDF: 10464007875.9/55

In: 145.207 $\pm$ 0.000 χ^2 /NDF: 4082207648.2/48

Out: 144.855 $\pm$ 0.000 χ^2 /NDF: 7952913649.1/54

All: 145.023 $\pm$ 0.000 χ^2 /NDF: 12045064075.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2 /NDF: 2551913.8/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 2292638.5/29

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

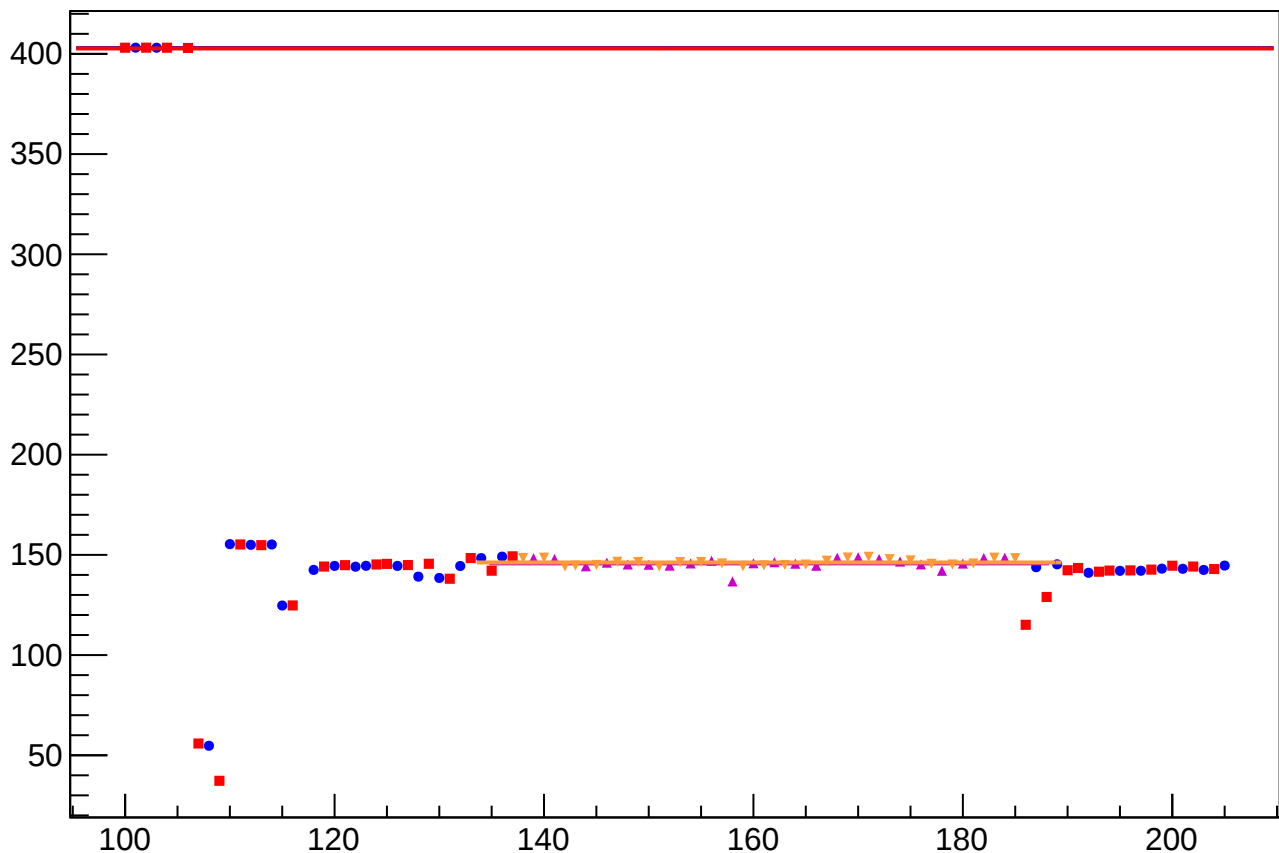
Right: 0.387 $\pm$ 0.000 χ^2 /NDF: 4845073.6/55

In: 0.420 $\pm$ 0.000 χ^2 /NDF:3933378.1/48

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:4039728.5/54

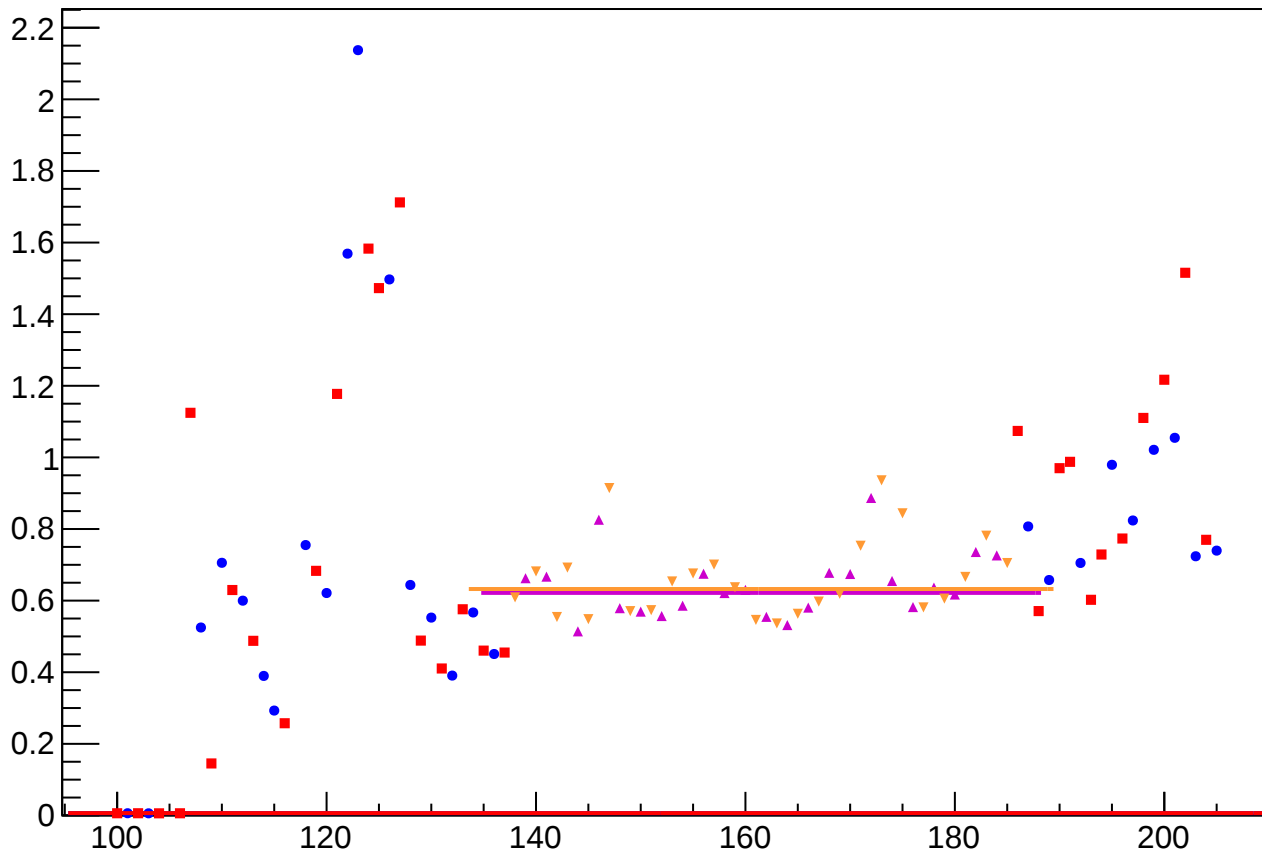
All: 0.418 $\pm$ 0.000 χ^2 /NDF: 7977021.6/103

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.893+/-0.000	χ^2/NDF : 1614391892586.0/25	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.806+/-0.000	χ^2/NDF : 5377404289515.9
Right Out: 402.728+/-0.000	χ^2/NDF : 3762560102250.0/29	In: 402.602+/-0.000	χ^2/NDF : 3945503290436.5/48
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.467+/-0.000	χ^2/NDF : 6119956164588.0/5
		All: 402.531+/-0.000	χ^2/NDF : 100657611282.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 19031250.8/25

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 20774388.5/29

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

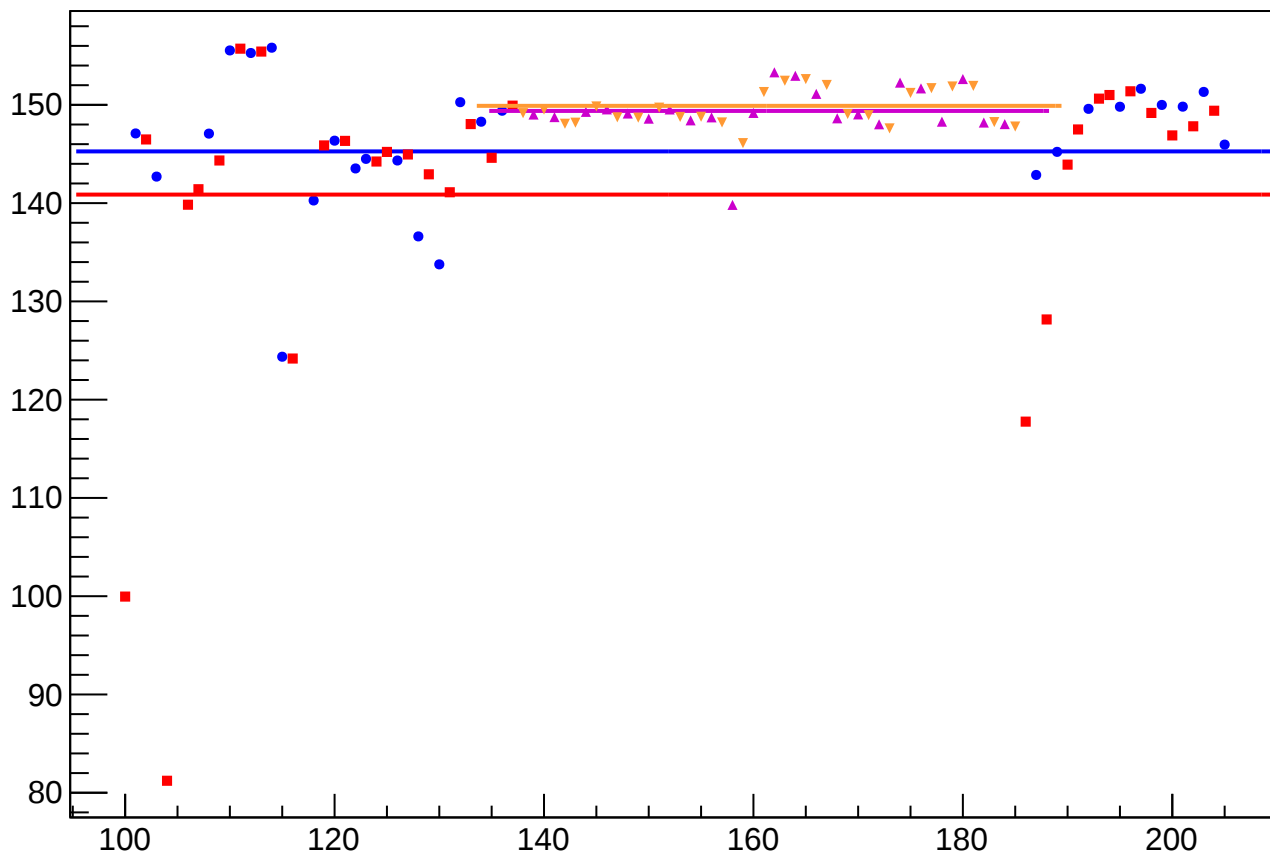
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 39805640.2/55

In: 0.007 $\pm$ 0.000 χ^2 /NDF:46104145.4/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:49456087.6/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 95560374.0/103

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.263+/-0.000

χ^2/NDF : 1299953146.8/25

Left Out: 149.900+/-0.000

χ^2/NDF : 162845622.6/24

Right Out: 140.869+/-0.000

χ^2/NDF : 3145128641.8/29

Left In: 149.382+/-0.000

χ^2/NDF : 434657827.5/22

Left: 149.650+/-0.000

χ^2/NDF : 604081739.6/47

Right: 142.838+/-0.000

χ^2/NDF : 4660274904.3/55

In: 148.149+/-0.000

χ^2/NDF : 1974607892.6/48

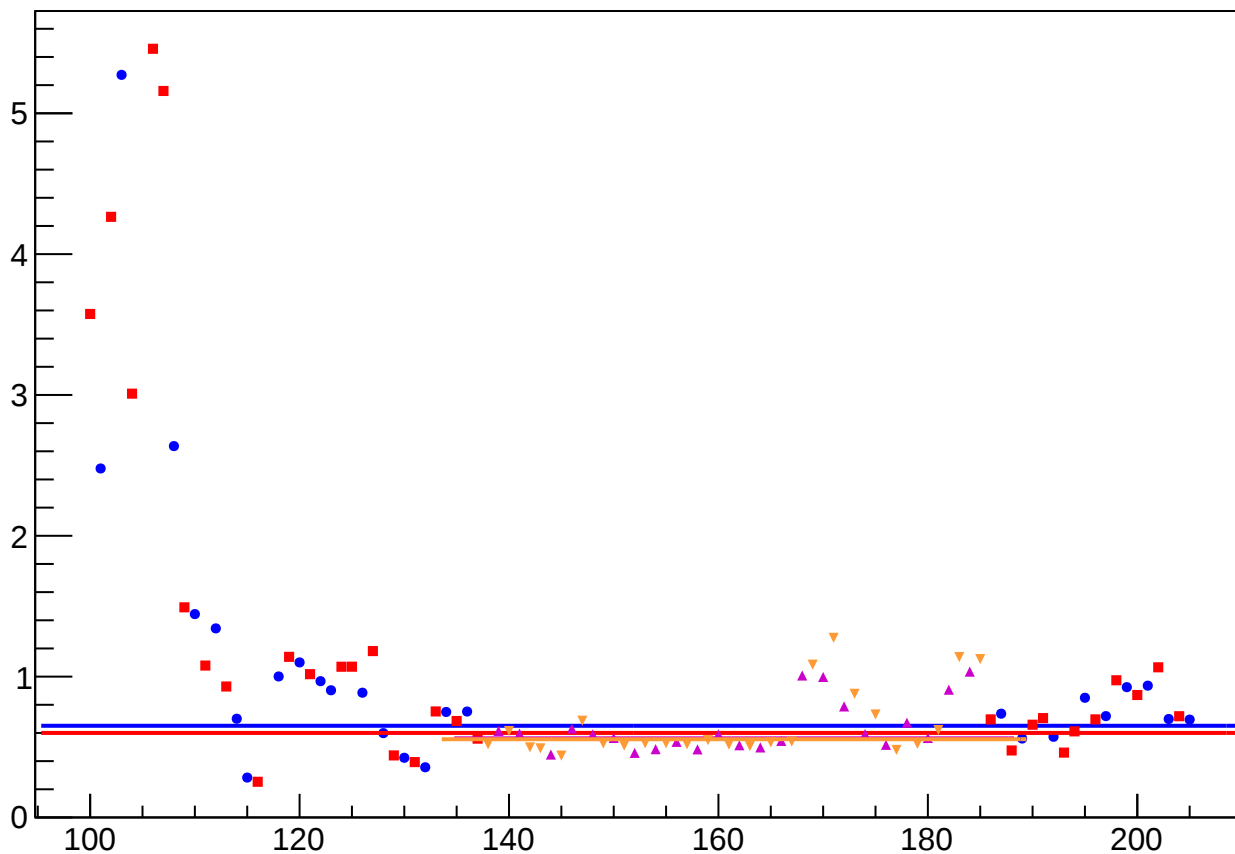
Out: 146.929+/-0.000

χ^2/NDF : 4669486941.2/54

All: 147.504+/-0.000

χ^2/NDF : 6697192668.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.651+/-0.000 χ^2/NDF : 3990683.9/25

Left Out: 0.555+/-0.000 χ^2/NDF :1773688.1/24

Right Out: 0.600+/-0.000 χ^2/NDF : 5484211.0/29

Left In: 0.562+/-0.000 χ^2/NDF :1305573.4/22

Left: 0.559+/-0.000 χ^2/NDF : 3081194.0/47

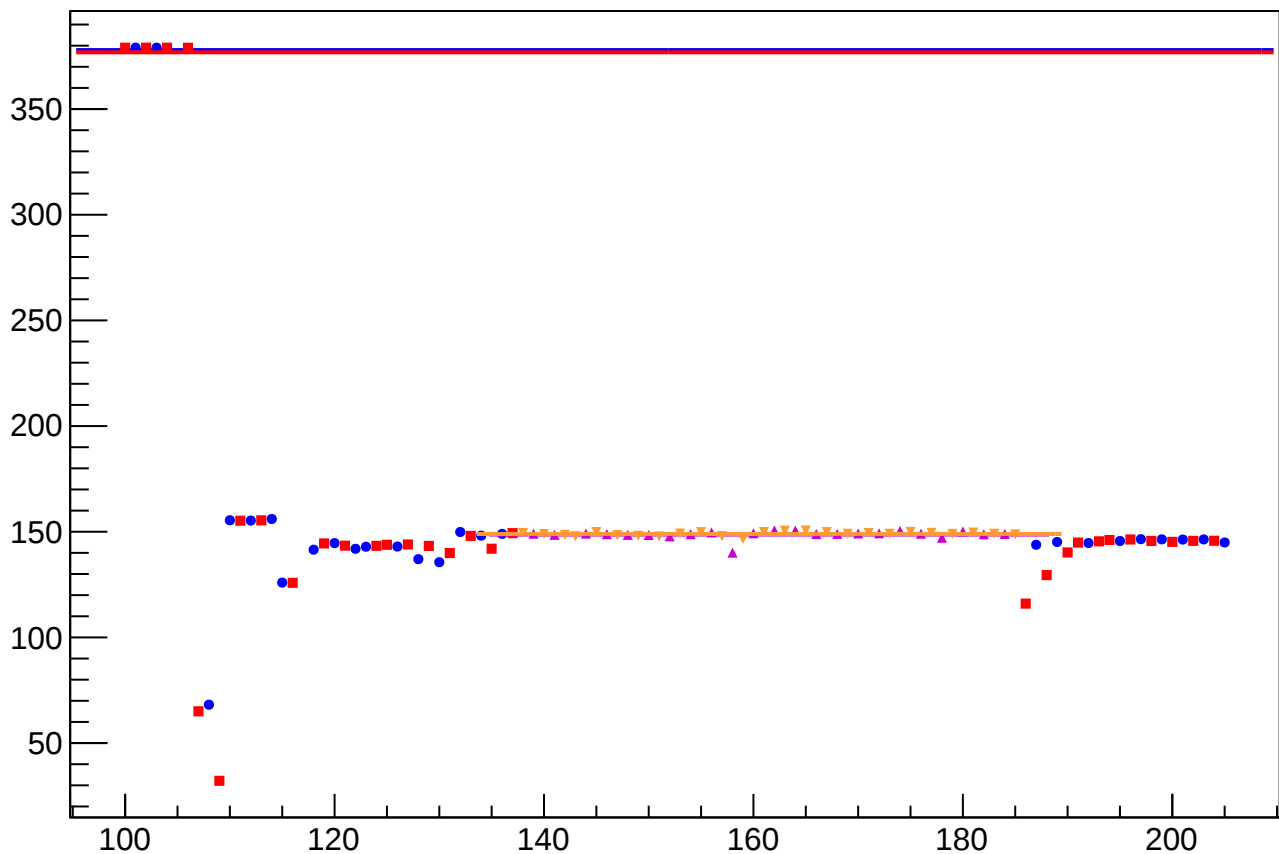
Right: 0.623+/-0.000 χ^2/NDF : 9532417.2/55

In: 0.588+/-0.000 χ^2/NDF :5521566.2/48

Out: 0.570+/-0.000 χ^2/NDF :7324652.8/54

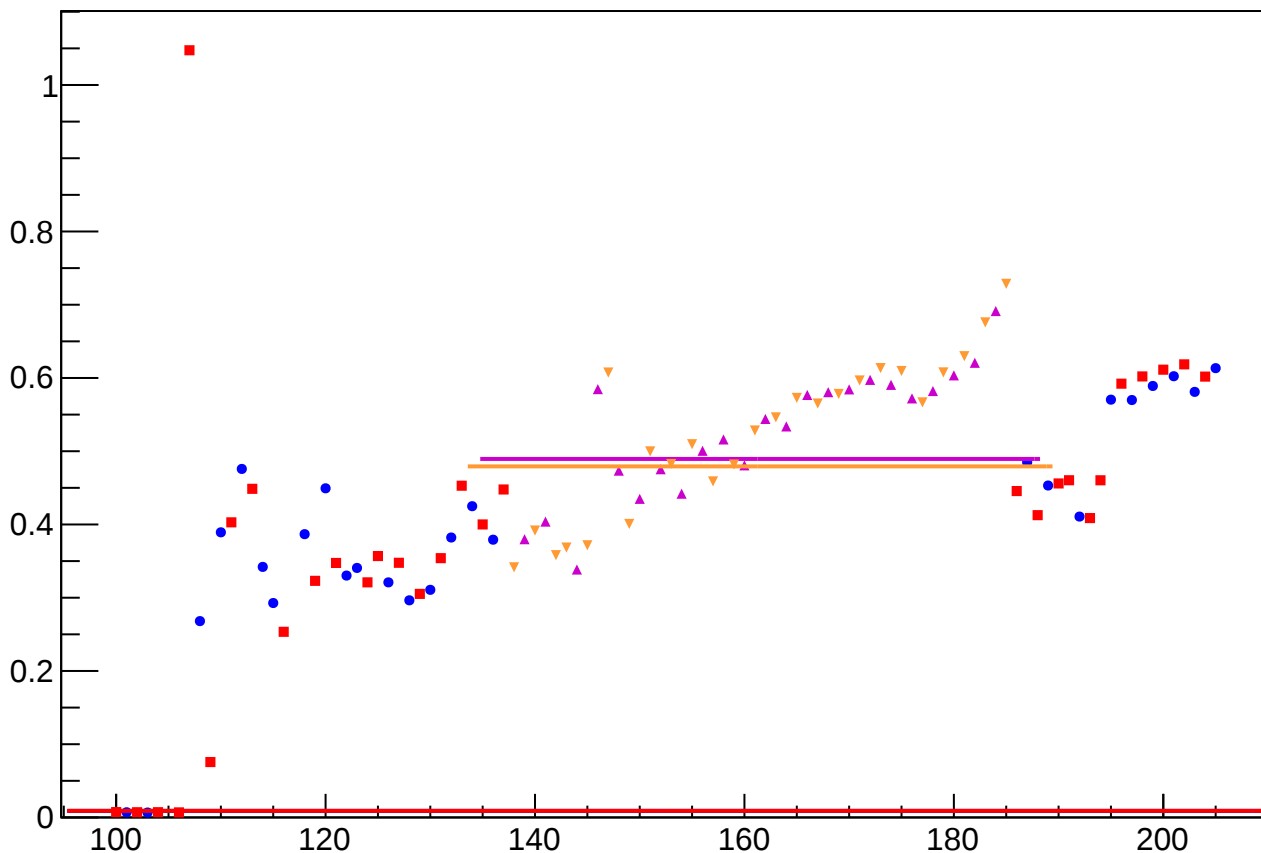
All: 0.579+/-0.000 χ^2/NDF : 12870032.8/103

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.918 $\pm$ 0.000	χ^2 /NDF: 3639338420524.2/25	Left: 148.814 $\pm$ 0.000	χ^2 /NDF: 319467494.9/47
Left Out: 148.944 $\pm$ 0.000	χ^2 /NDF: 63976941.3/24	Right: 377.356 $\pm$ 0.000	χ^2 /NDF: 13461969539919.0
Right Out: 376.863 $\pm$ 0.000	χ^2 /NDF: 9814728244310.4/29	In: 376.748 $\pm$ 0.000	χ^2 /NDF: 7215705824146.2/48
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.749 $\pm$ 0.000	χ^2 /NDF: 13676384867301.0
		All: 376.216 $\pm$ 0.000	χ^2 /NDF: 208992163133.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 21523485.7/25

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 22794270.0/29

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

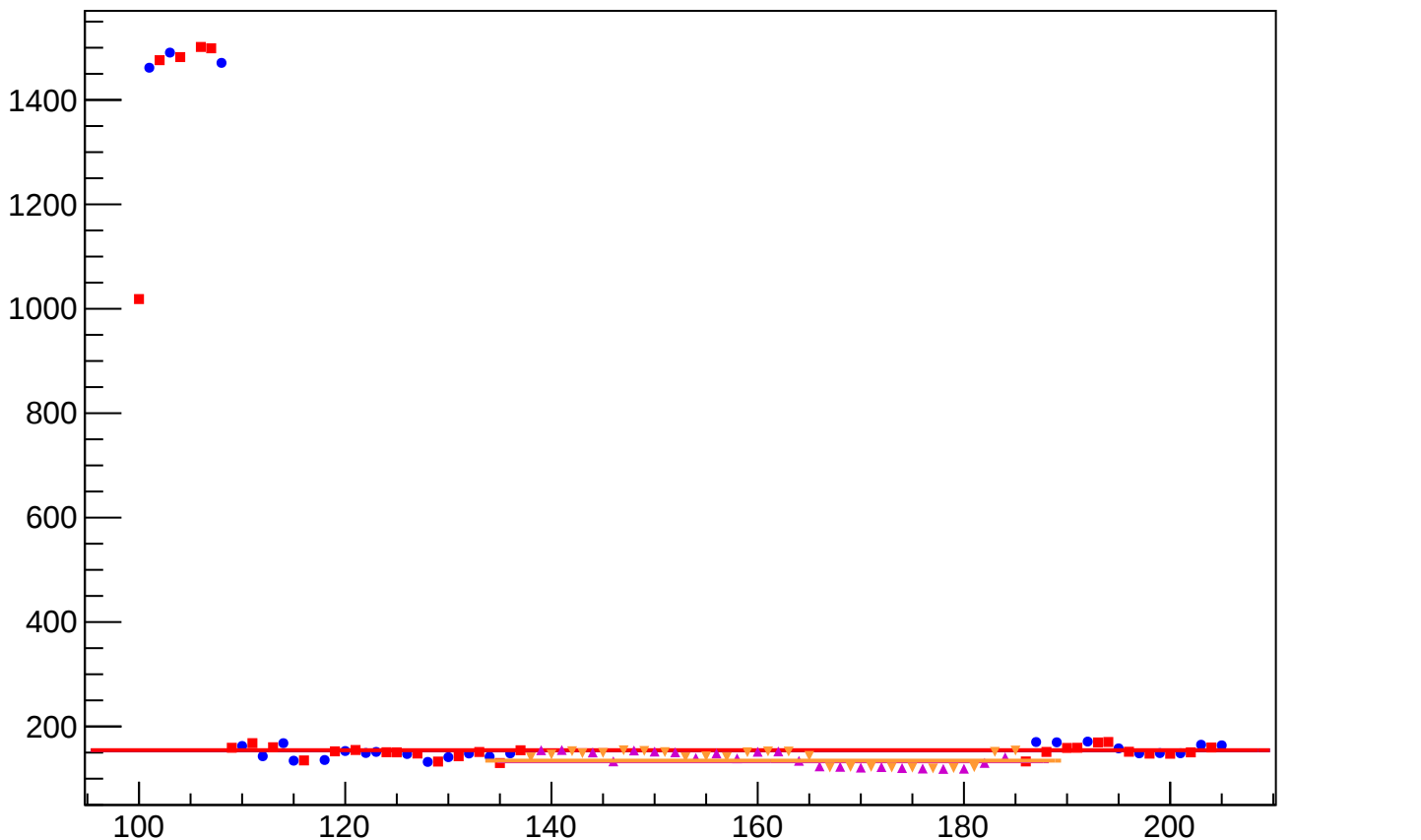
Right: 0.009+/-0.000 χ^2/NDF : 44317832.4/55

In: 0.011+/-0.000 χ^2/NDF :54023873.0/48

Out: 0.011+/-0.000 χ^2/NDF :57192883.3/54

All: 0.011+/-0.000 χ^2/NDF : 111216847.1/103

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.217+/-0.000

χ^2/NDF : 25691973635.2/25

Left: 133.958+/-0.000

χ^2/NDF : 8697951676.8/47

Left Out: 134.554+/-0.000

χ^2/NDF : 4376966869.3/24

Right: 154.405+/-0.000

χ^2/NDF : 60549433122.1/55

Right Out: 154.566+/-0.000

χ^2/NDF : 34856465207.1/29

In: 141.671+/-0.000

χ^2/NDF : 33952677428.3/48

Out: 143.080+/-0.000

χ^2/NDF : 43279780102.0/54

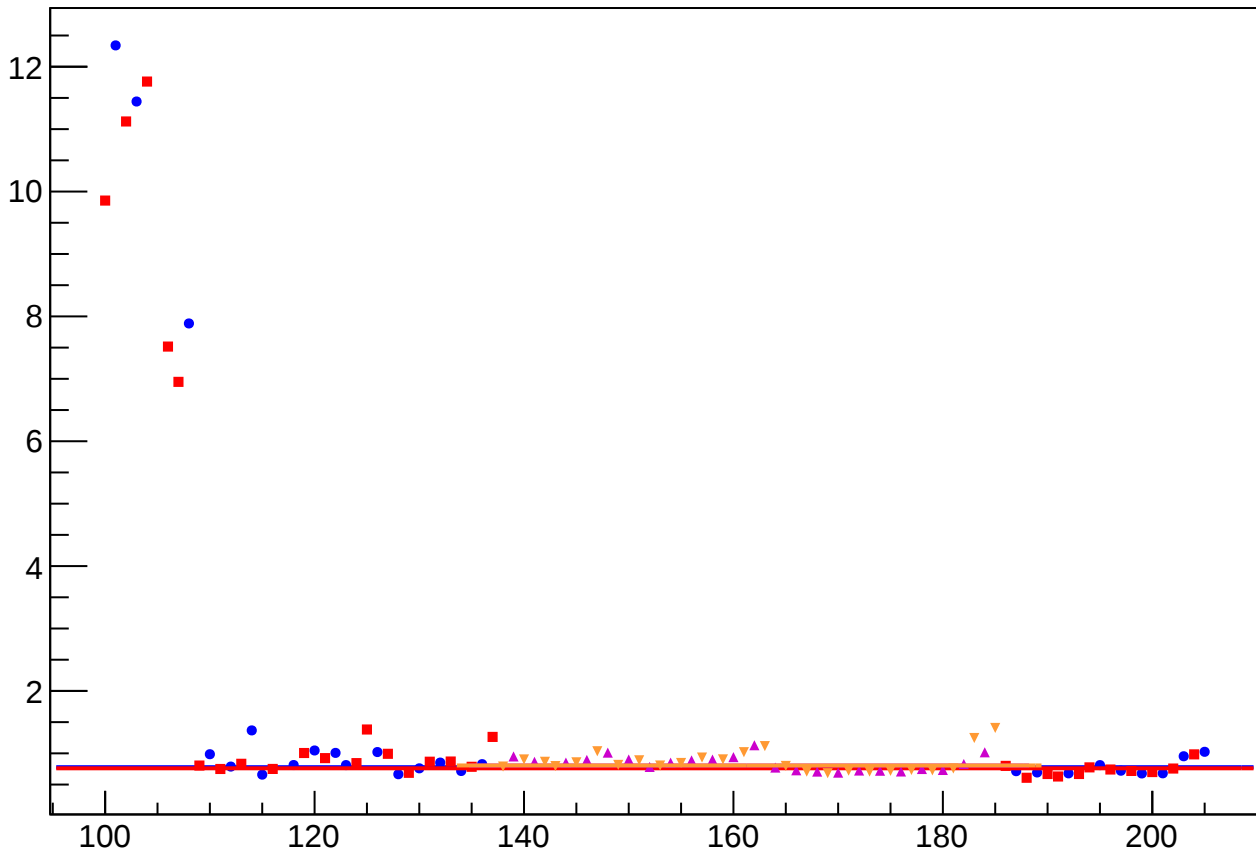
Left In: 133.337+/-0.000

χ^2/NDF : 4303812119.2/22

All: 142.407+/-0.000

χ^2/NDF : 77271691044.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.778 $\pm$ 0.000 χ^2 /NDF: 2948776.0/25

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.760 $\pm$ 0.000 χ^2 /NDF: 3197713.1/29

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

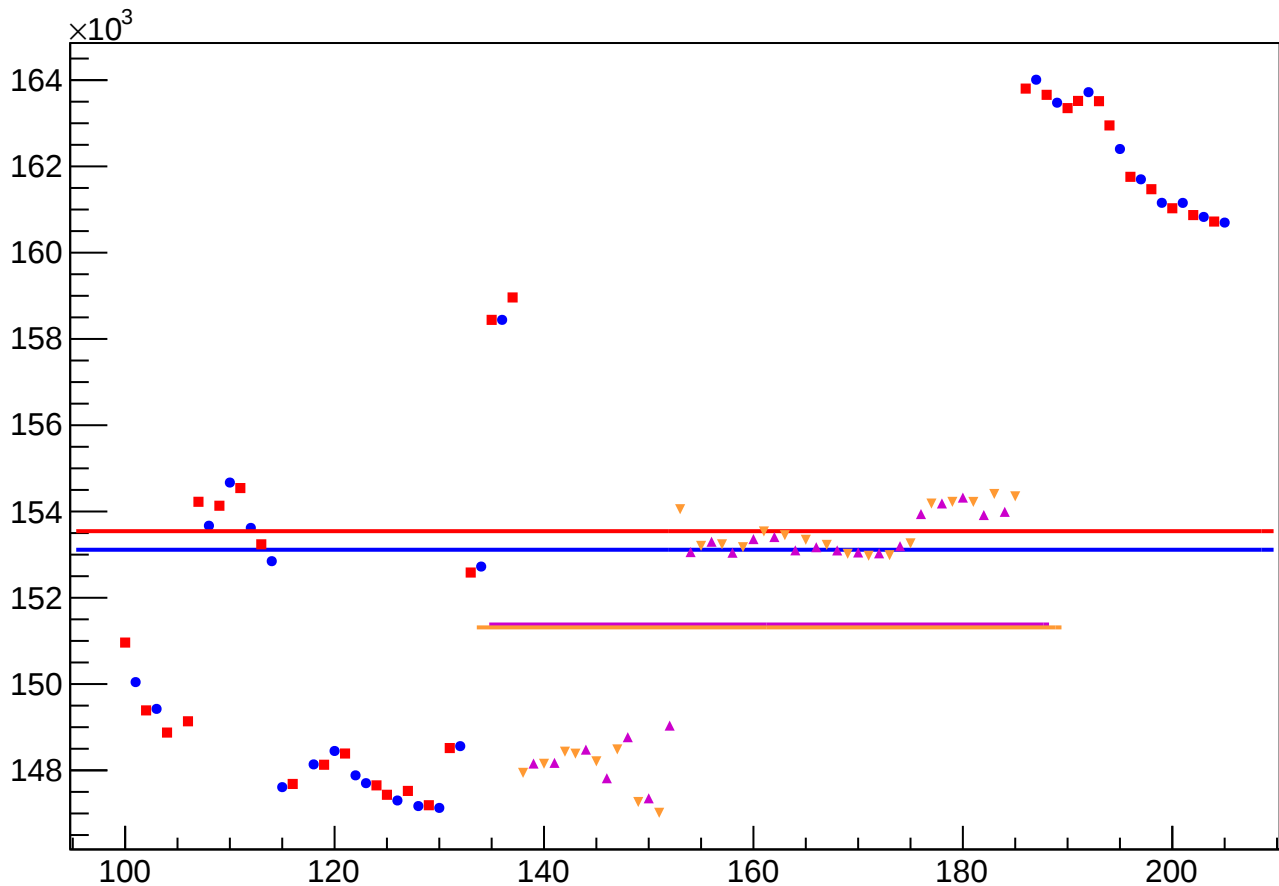
Right: 0.769 $\pm$ 0.000 χ^2 /NDF: 6151744.7/55

In: 0.794 $\pm$ 0.000 χ^2 /NDF:3441964.5/48

Out: 0.787 $\pm$ 0.000 χ^2 /NDF:3930589.1/54

All: 0.790 $\pm$ 0.000 χ^2 /NDF: 7374834.7/103

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153113.194+/-0.056

χ^2/NDF : 10269996615.6/25

Left: 151345.082+/-0.035

χ^2/NDF : 5518562148.3/4

Left Out: 151313.284+/-0.049

χ^2/NDF : 3153768134.8/24

Right: 153340.820+/-0.038

χ^2/NDF : 21469830400.9

Right Out: 153544.016+/-0.053

χ^2/NDF : 11168431825.2/29

In: 152170.890+/-0.038

χ^2/NDF : 13156789467.0/4

Out: 152338.339+/-0.036

χ^2/NDF : 15286962596.9

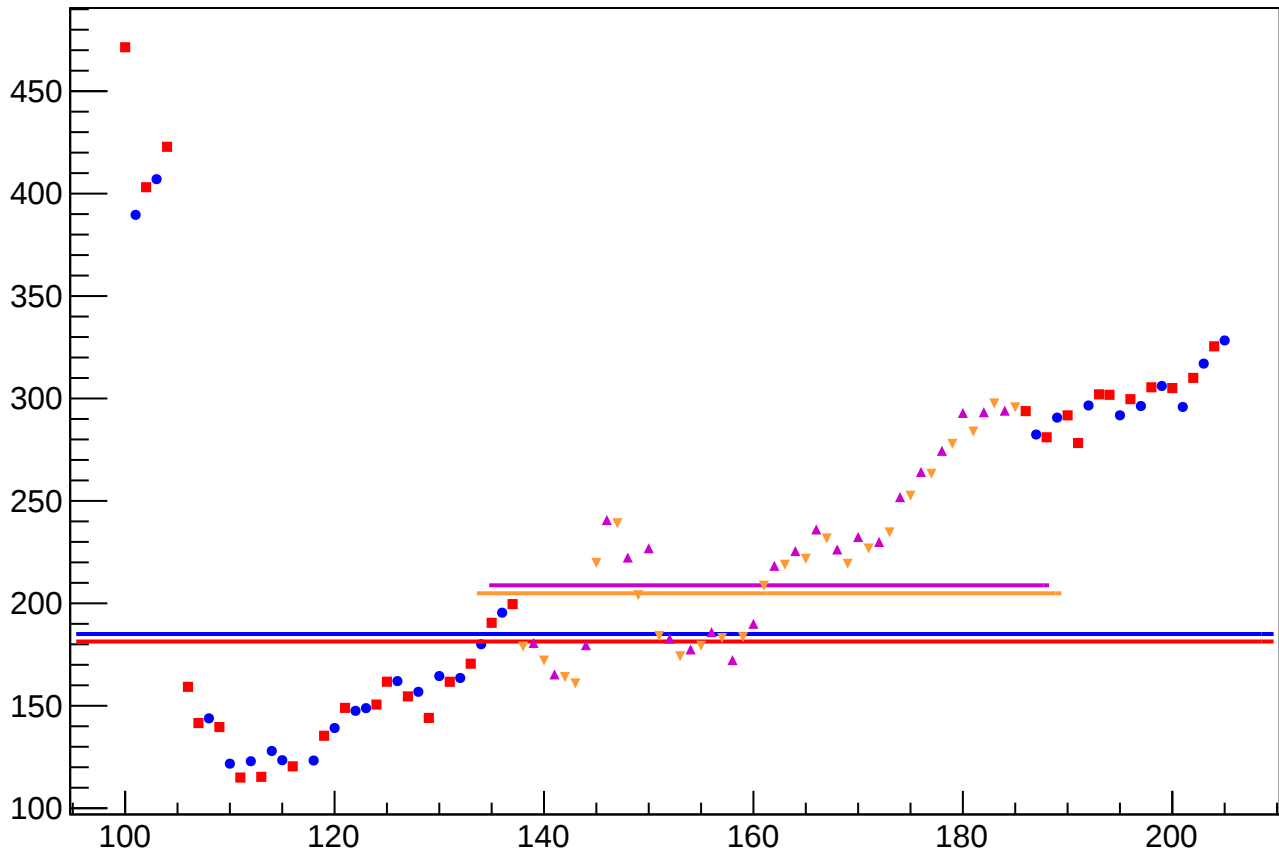
Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

All: 152259.064+/-0.026

χ^2/NDF : 28454114

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 185.034 $\pm$ 0.040 χ^2 /NDF: 3579972.1/25

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 181.371 $\pm$ 0.037 χ^2 /NDF: 4033266.6/29

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

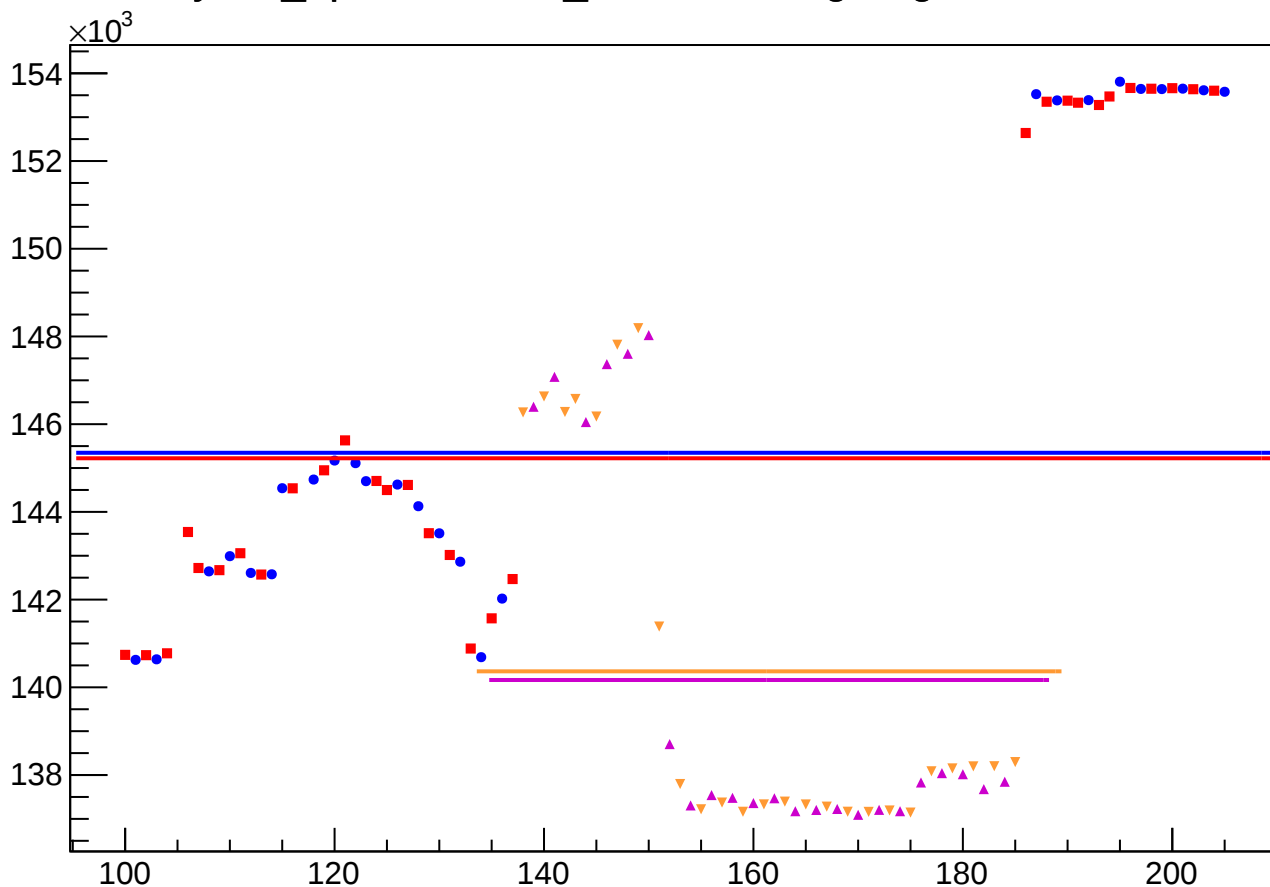
Right: 183.099 $\pm$ 0.027 χ^2 /NDF: 7617779.3/55

In: 197.964 $\pm$ 0.027 χ^2 /NDF: 4778802.0/48

Out: 194.088 $\pm$ 0.025 χ^2 /NDF: 5304302.4/54

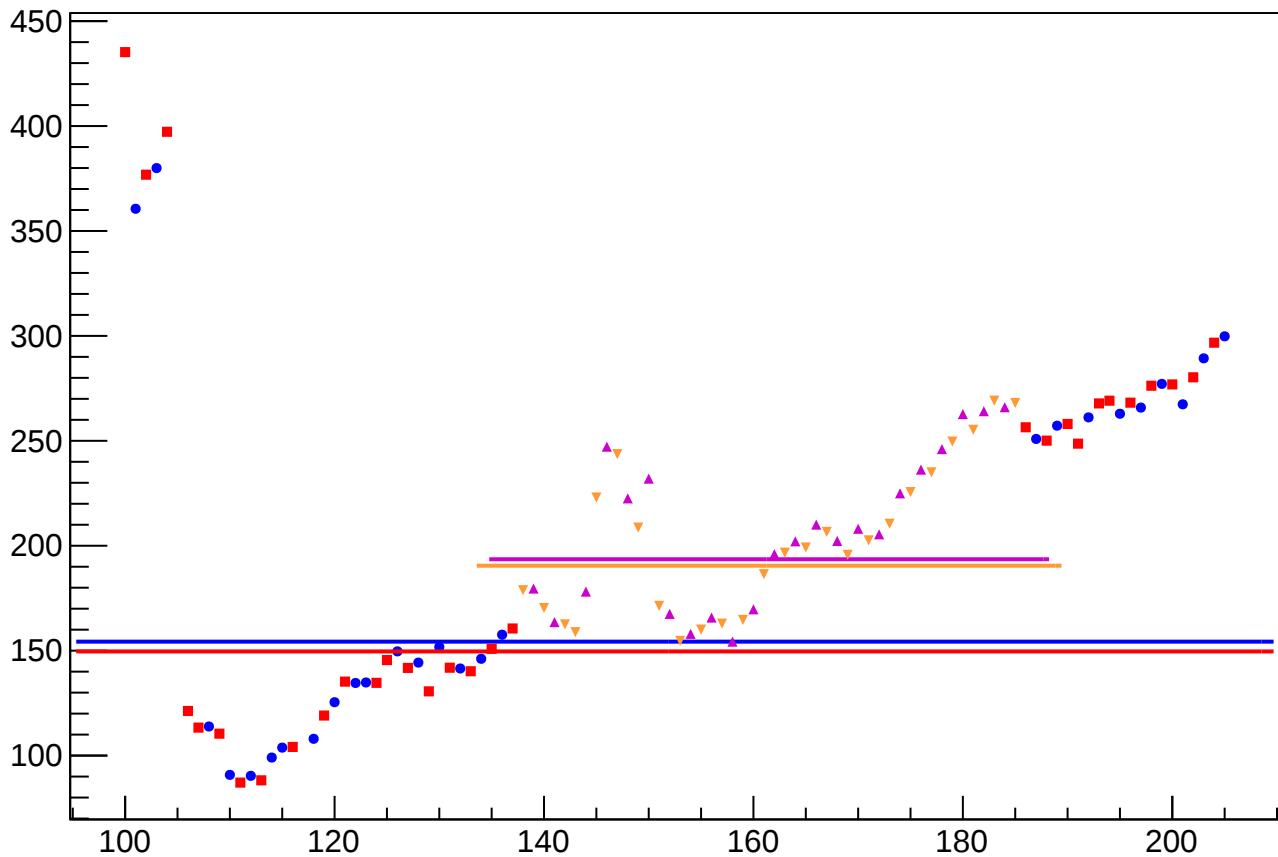
All: 195.923 $\pm$ 0.018 χ^2 /NDF: 10094208.7/10

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145347.754+/-0.047	χ^2/NDF : 7706479699.7/25	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 145280.548+/-0.032	χ^2/NDF : 16499578101.1
Right Out: 145222.265+/-0.044	χ^2/NDF : 8789352421.0/29	In: 142757.393+/-0.034	χ^2/NDF : 21695743821.5/4
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 142849.381+/-0.032	χ^2/NDF : 23370261038.8
		All: 142806.136+/-0.023	χ^2/NDF : 450699878

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 154.295 $\pm$ 0.034 χ^2/NDF : 4372770.8/25

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF :950233.2/24

Right Out: 149.634 $\pm$ 0.031 χ^2/NDF : 4905897.1/29

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

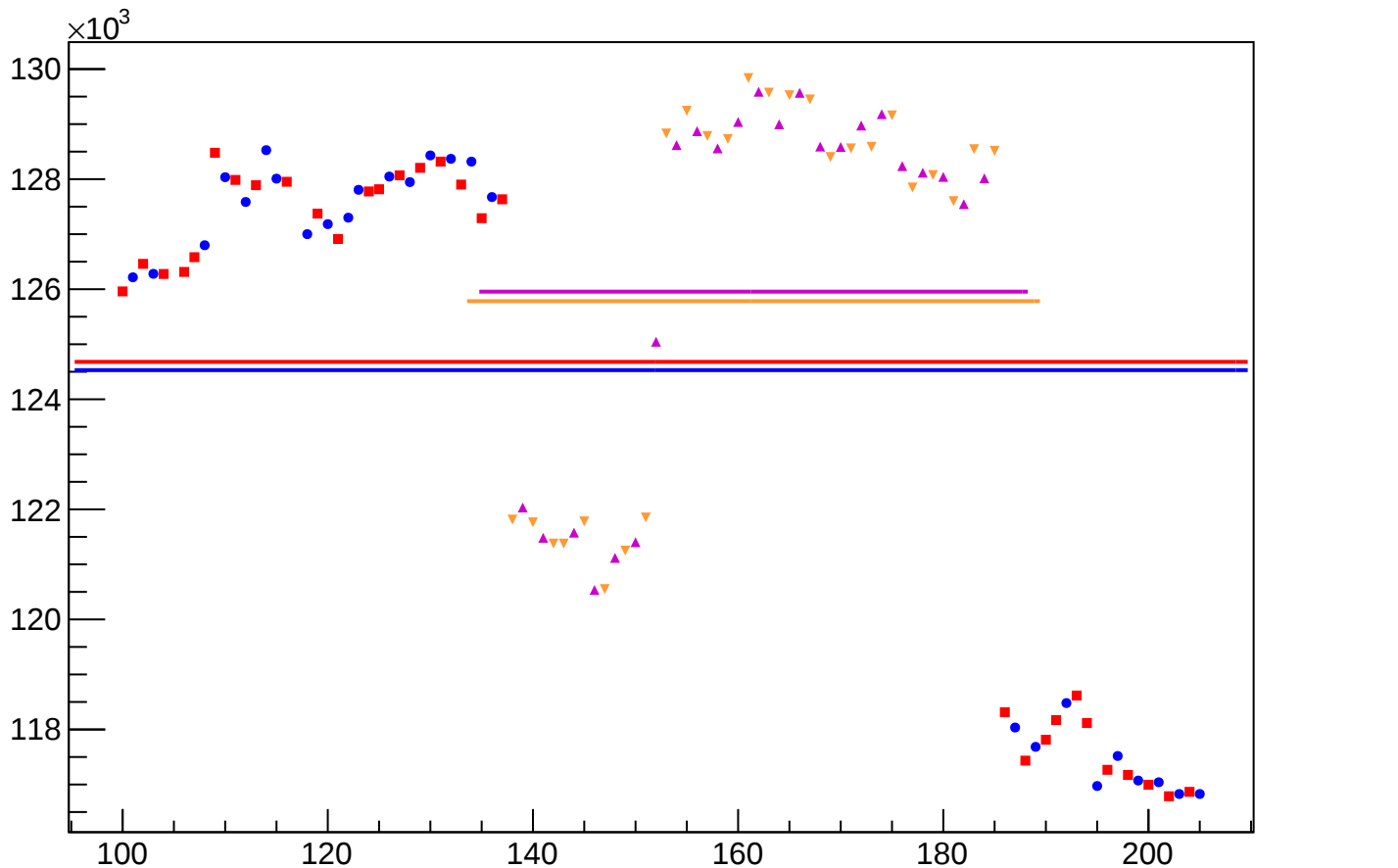
Right: 151.799 $\pm$ 0.023 χ^2/NDF : 9289001.7/55

In: 173.926 $\pm$ 0.024 χ^2/NDF :6021169.8/48

Out: 169.589 $\pm$ 0.022 χ^2/NDF :6691151.1/54

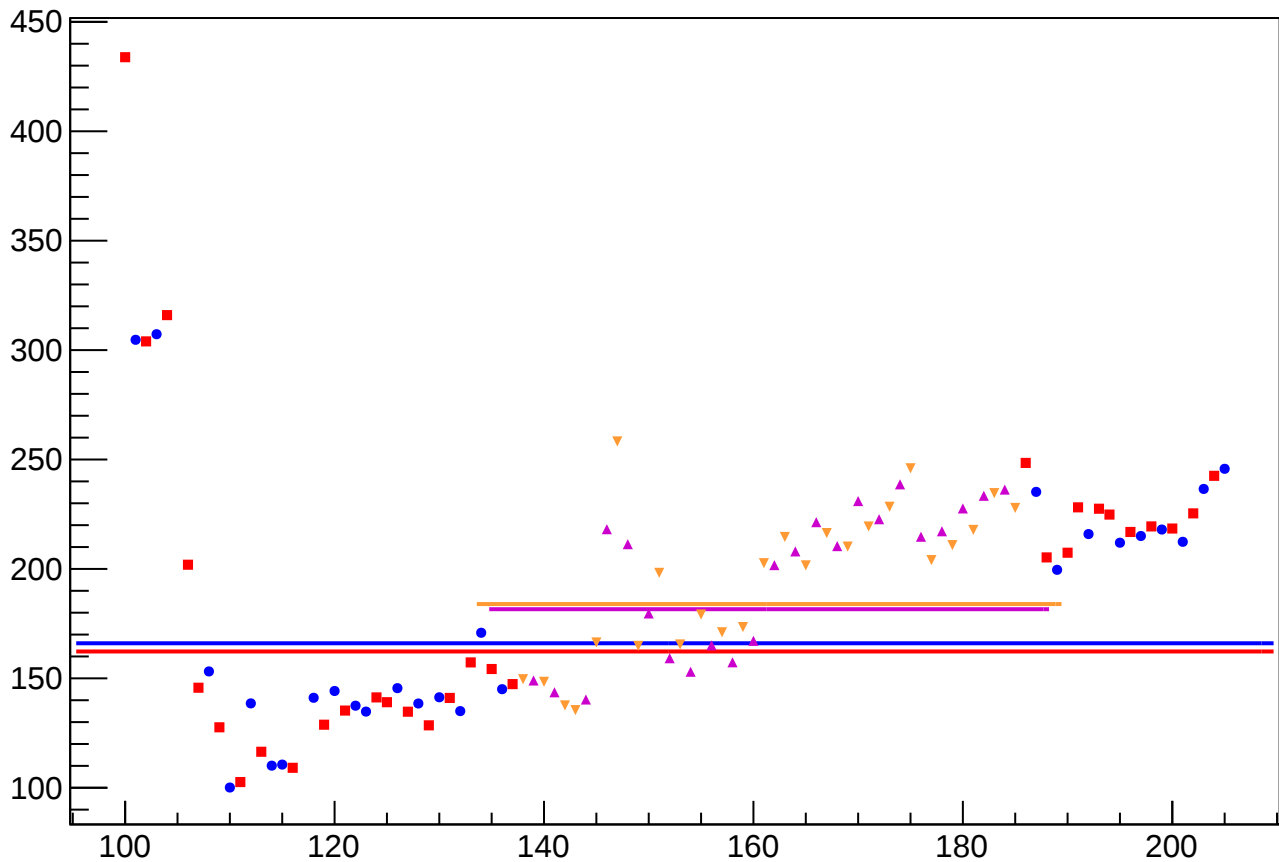
All: 171.628 $\pm$ 0.016 χ^2/NDF : 12730031.5/10

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124529.529 $\pm$ 0.048	χ^2 /NDF: 9861906570.7/25	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/25
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124609.161 $\pm$ 0.033	χ^2 /NDF: 20472597621.5/24
Right Out: 124680.000 $\pm$ 0.046	χ^2 /NDF: 10605587132.7/29	In: 125298.271 $\pm$ 0.033	χ^2 /NDF: 16132970594.5/29
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125252.228 $\pm$ 0.032	χ^2 /NDF: 17637500612.6/22
		All: 125274.396 $\pm$ 0.023	χ^2 /NDF: 337714870.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 166.024 $\pm$ 0.034 χ^2 /NDF: 1943898.6/25

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF:1123194.0/24

Right Out: 162.274 $\pm$ 0.032 χ^2 /NDF: 2427725.3/29

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

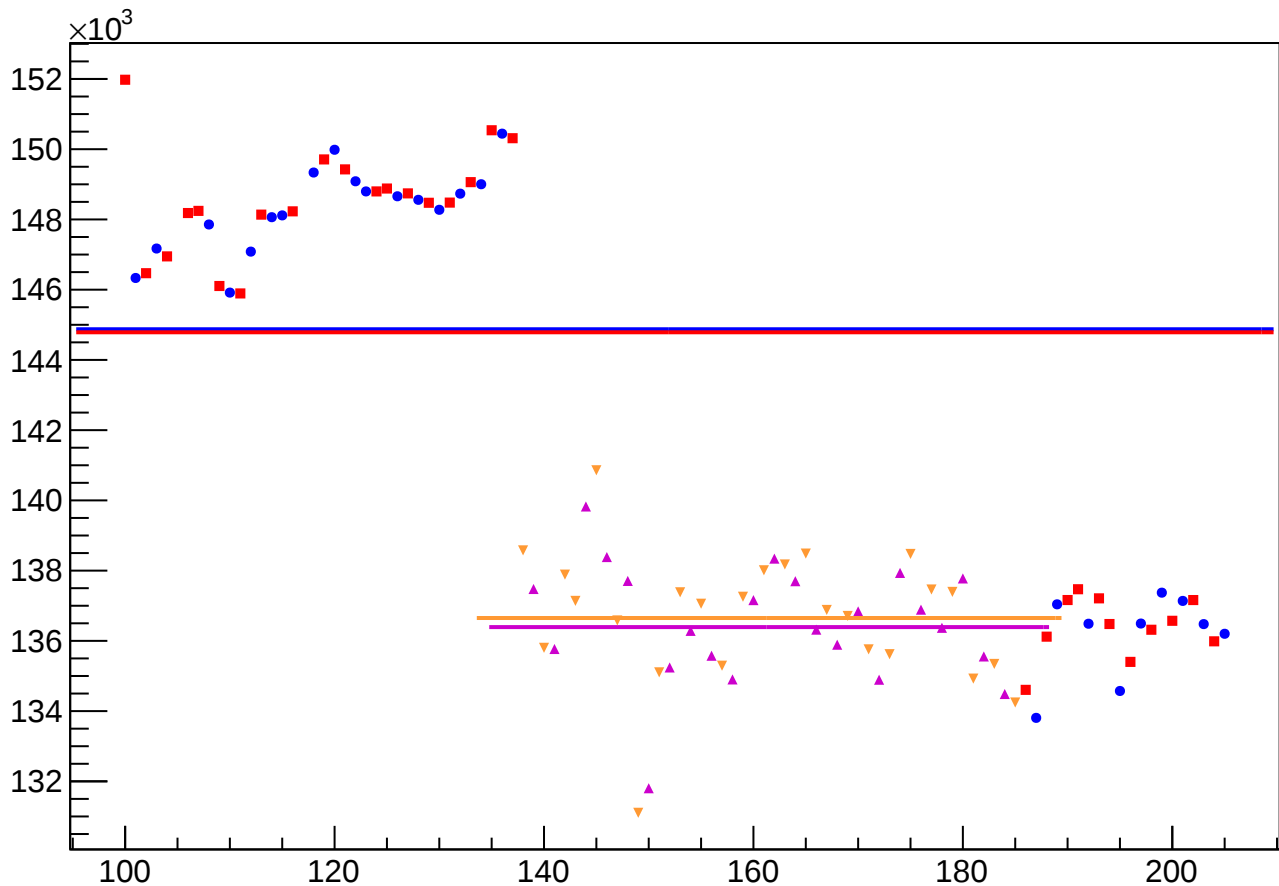
Right: 164.039 $\pm$ 0.024 χ^2 /NDF: 4377966.1/55

In: 174.418 $\pm$ 0.023 χ^2 /NDF:3158770.1/48

Out: 173.520 $\pm$ 0.022 χ^2 /NDF:3784337.2/54

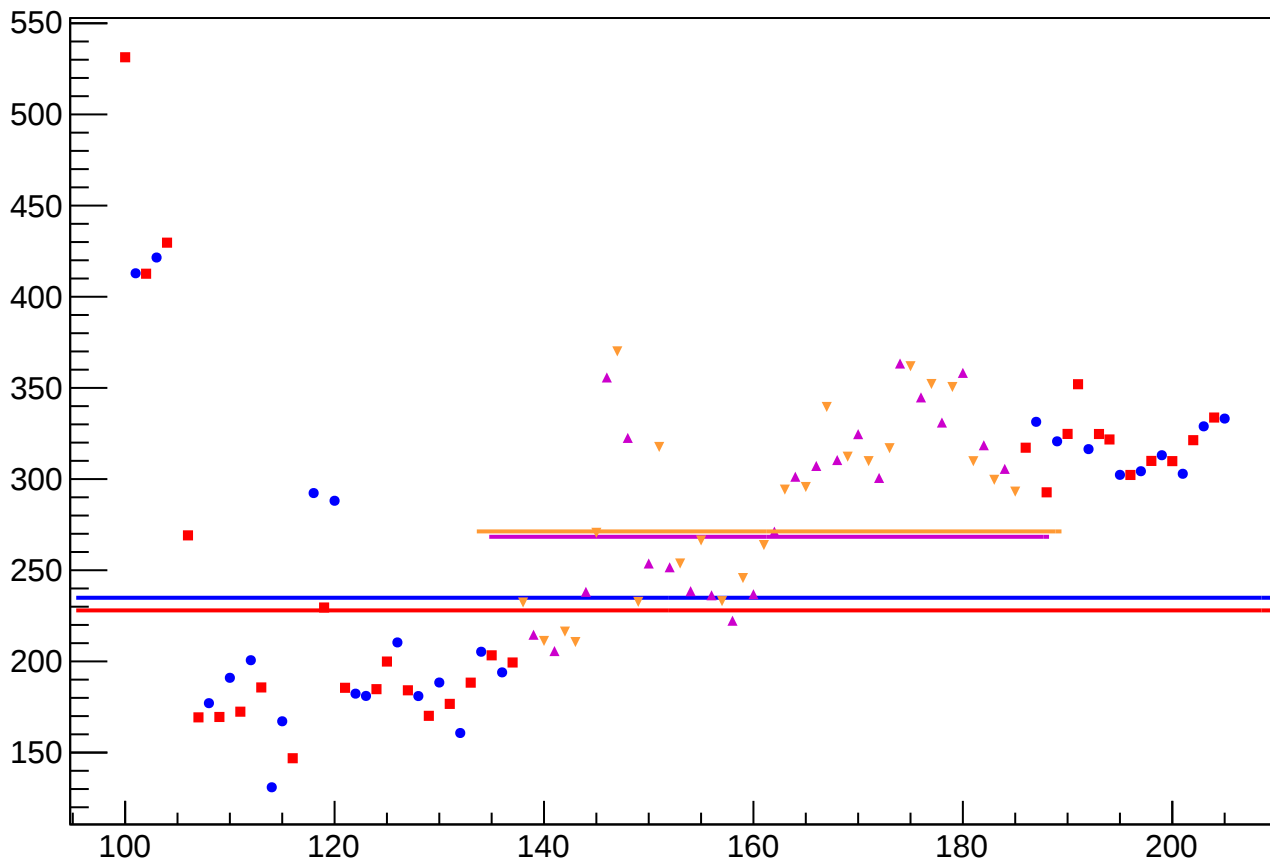
All: 173.952 $\pm$ 0.016 χ^2 /NDF: 6943880.5/103

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 144872.989 $\pm$ 0.069	χ^2 /NDF: 6831532863.0/25	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: 144826.883 $\pm$ 0.047	χ^2 /NDF: 14349968005.9
Right Out: 144786.649 $\pm$ 0.064	χ^2 /NDF: 7517593913.2/29	In: 140454.967 $\pm$ 0.048	χ^2 /NDF: 15451355506.2/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140741.791 $\pm$ 0.046	χ^2 /NDF: 16417122923.4
		All: 140604.670 $\pm$ 0.033	χ^2 /NDF: 318874192

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 234.909 $\pm$ 0.049 χ^2 /NDF: 2108511.1/25

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 227.973 $\pm$ 0.045 χ^2 /NDF: 2378551.5/29

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

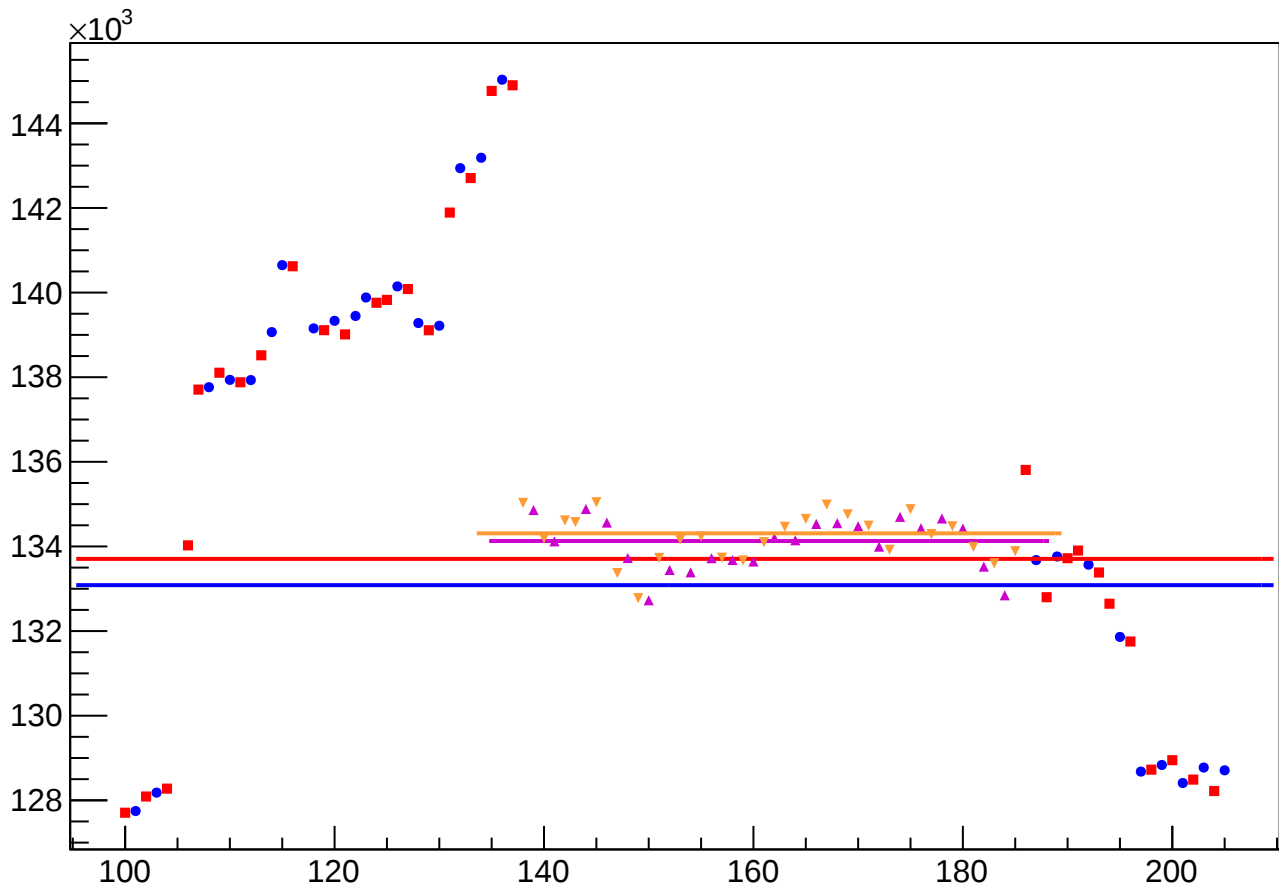
Right: 231.205 $\pm$ 0.033 χ^2 /NDF: 4497918.4/55

In: 252.326 $\pm$ 0.034 χ^2 /NDF:3432005.1/48

Out: 249.512 $\pm$ 0.032 χ^2 /NDF:3894949.8/54

All: 250.857 $\pm$ 0.023 χ^2 /NDF: 7330602.8/103

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 133085.272 $\pm$ 0.114

χ^2 /NDF: 2435851591.2/25

Left Out: 134310.250 $\pm$ 0.139

χ^2 /NDF: 15518632.9/24

Right Out: 133706.246 $\pm$ 0.119

χ^2 /NDF: 1523723389.1/29

Left In: 134128.172 $\pm$ 0.142

χ^2 /NDF: 15533736.2/22

Left: 134221.438 $\pm$ 0.099

χ^2 /NDF: 31894688.0/47

Right: 133383.380 $\pm$ 0.082

χ^2 /NDF: 3973812896.5/47

In: 133494.156 $\pm$ 0.089

χ^2 /NDF: 2484182911.1/48

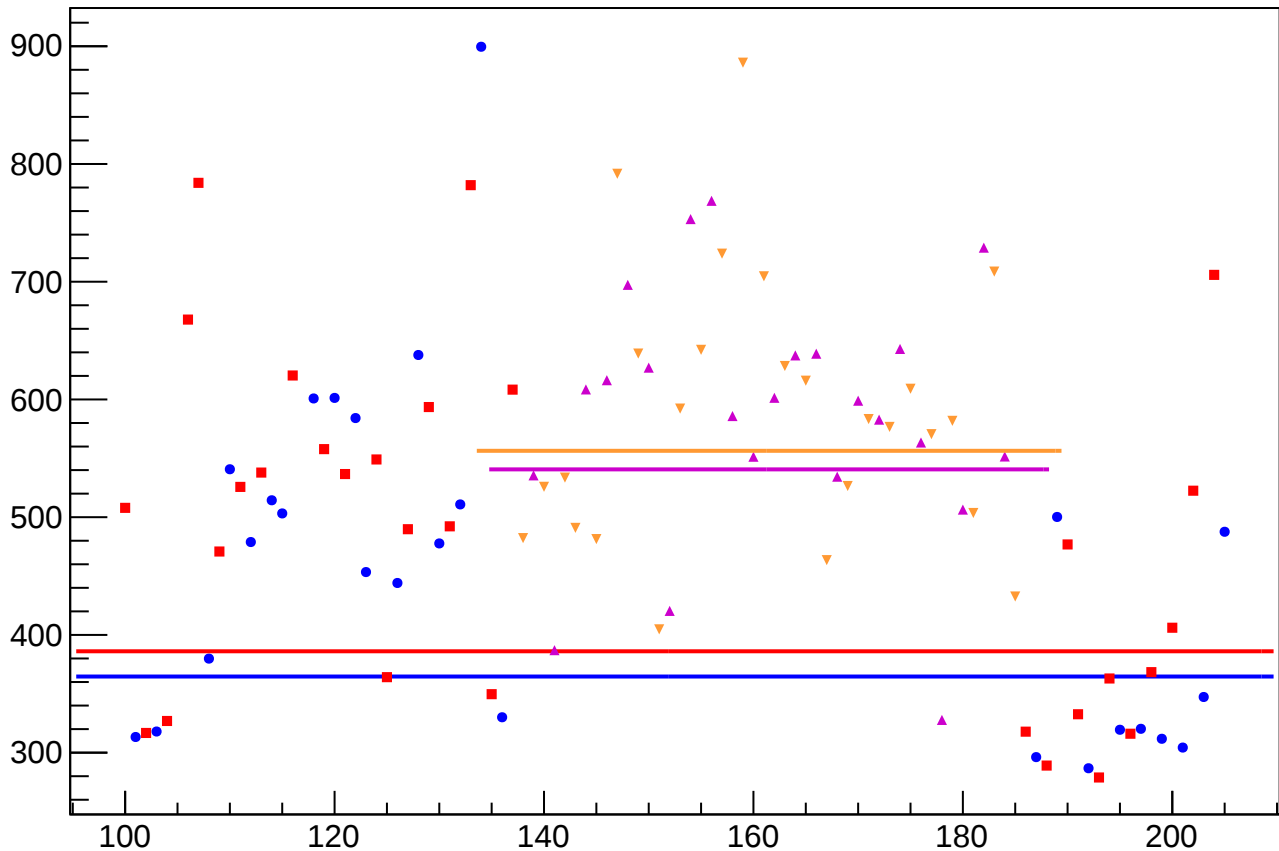
Out: 133961.818 $\pm$ 0.090

χ^2 /NDF: 1550204398.3/50

All: 133724.793 $\pm$ 0.063

χ^2 /NDF: 404803320.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 364.667 ± 0.081 $\chi^2/\text{NDF}: 1336787.4/25$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 386.104 ± 0.084 $\chi^2/\text{NDF}: 1822935.9/29$

Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

Left: 548.687 ± 0.070 $\chi^2/\text{NDF}: 2423723.9/47$

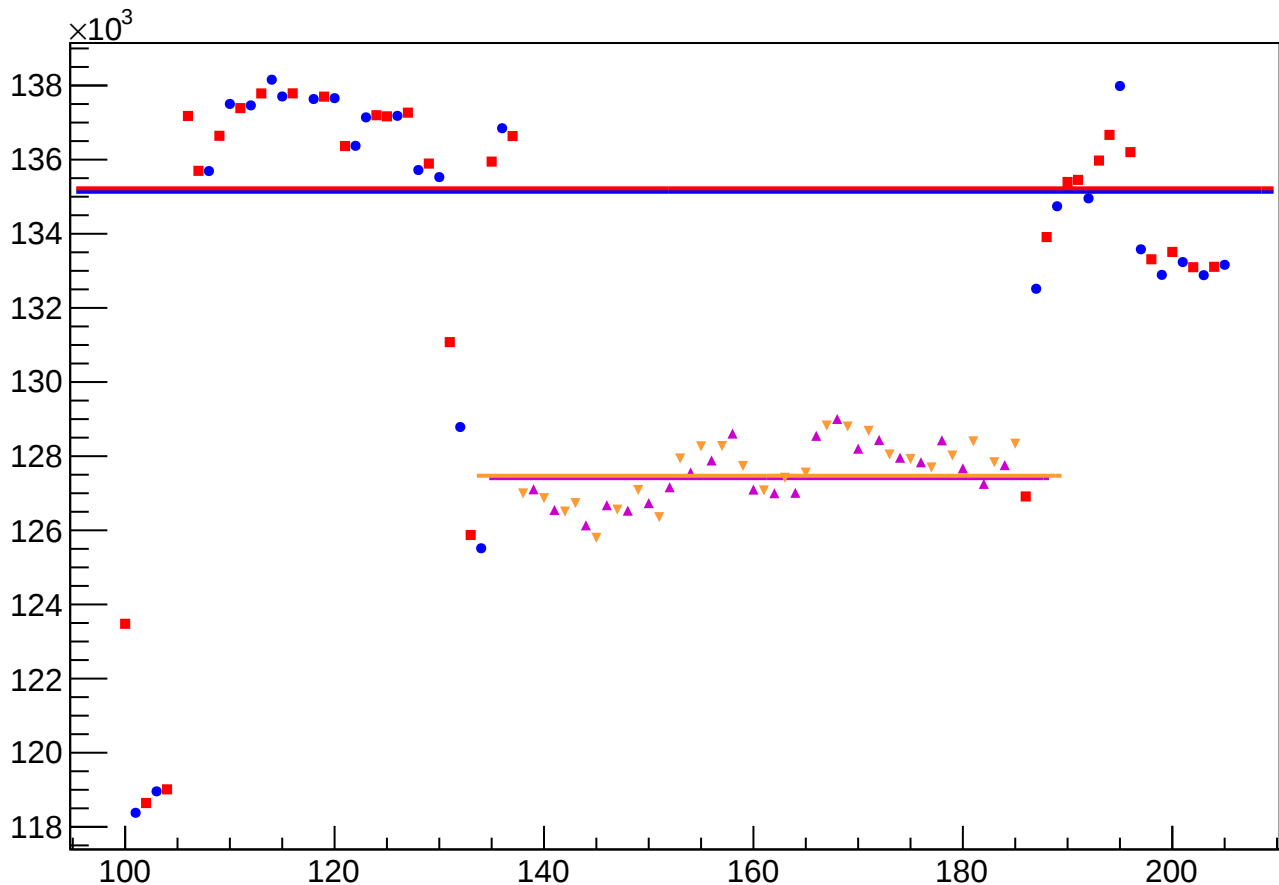
Right: 374.958 ± 0.058 $\chi^2/\text{NDF}: 3193657.7/55$

In: 433.647 ± 0.063 $\chi^2/\text{NDF}: 4612669.4/48$

Out: 458.154 ± 0.064 $\chi^2/\text{NDF}: 4567488.8/54$

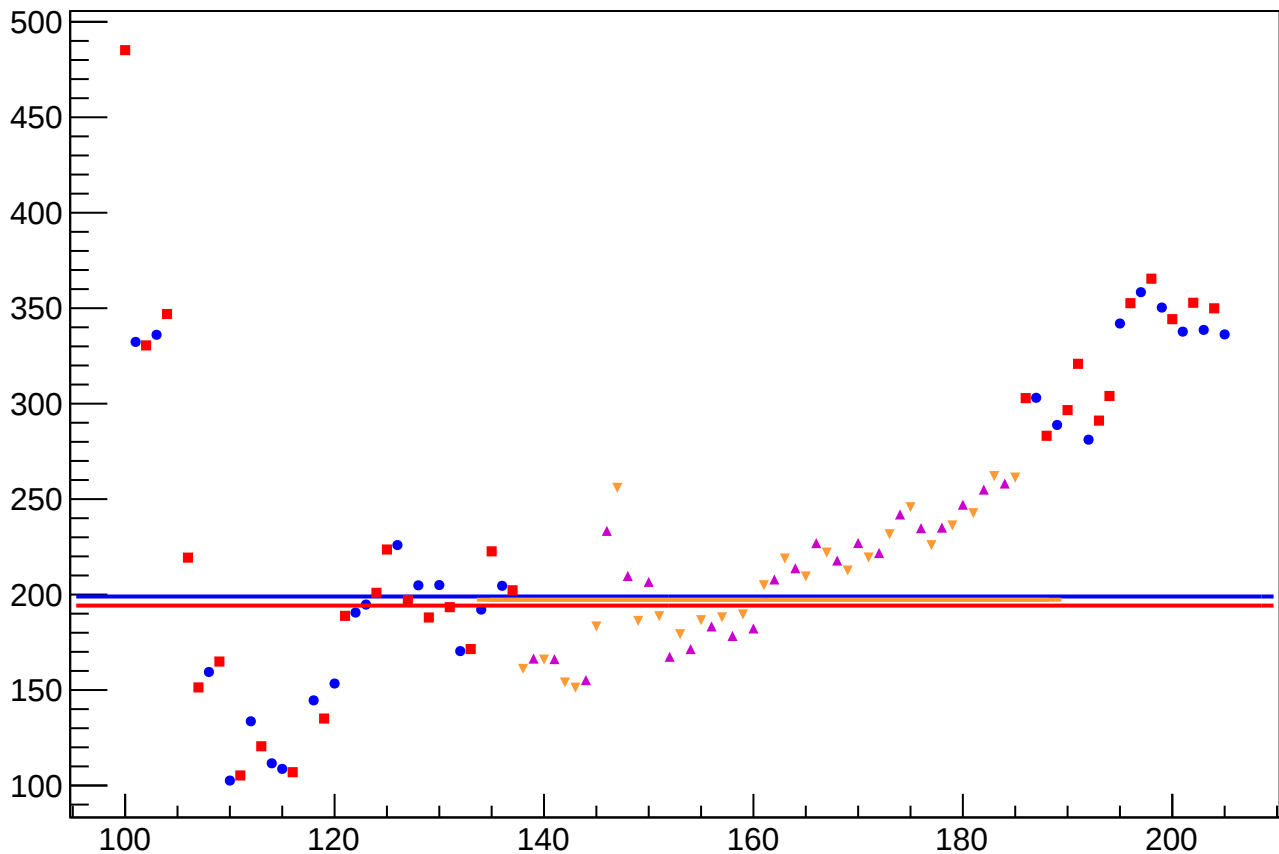
All: 445.733 ± 0.045 $\chi^2/\text{NDF}: 9255101.2/103$

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135133.068 $\pm$ 0.061	χ^2 /NDF: 4796943839.6/25	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135182.313 $\pm$ 0.041	χ^2 /NDF: 9967954802.5/50
Right Out: 135225.833 $\pm$ 0.057	χ^2 /NDF: 5169763738.5/29	In: 130418.001 $\pm$ 0.038	χ^2 /NDF: 15013054144.6/40
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130606.006 $\pm$ 0.036	χ^2 /NDF: 16539303494.4/30
		All: 130516.102 $\pm$ 0.026	χ^2 /NDF: 315652783.0/20

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 198.993 $\pm$ 0.043 χ^2/NDF : 3710821.3/25

Left Out: 197.289 $\pm$ 0.033 χ^2/NDF : 852024.1/24

Right Out: 194.229 $\pm$ 0.040 χ^2/NDF : 4255544.6/29

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

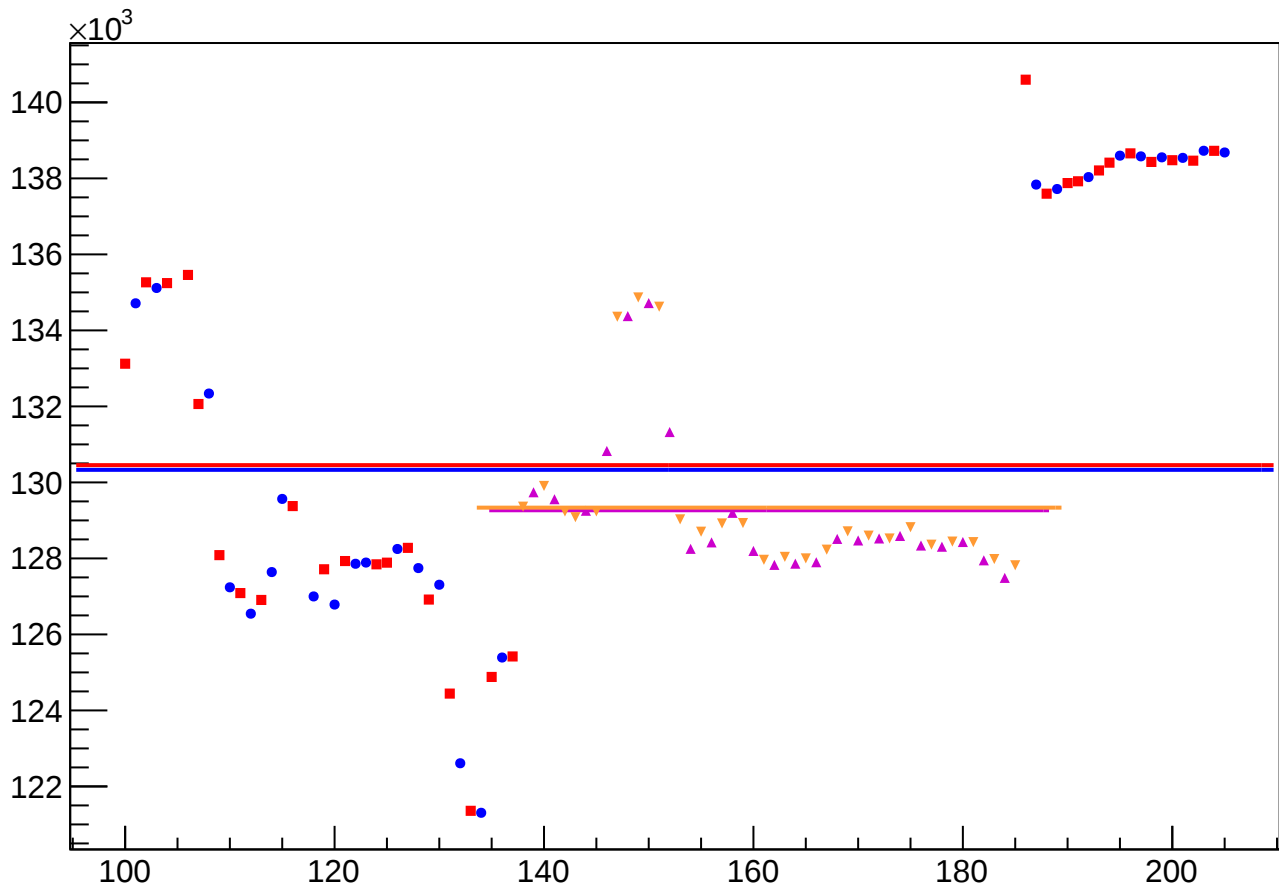
Right: 196.464 $\pm$ 0.029 χ^2/NDF : 7972946.6/55

In: 198.064 $\pm$ 0.027 χ^2/NDF : 4503171.2/48

Out: 196.052 $\pm$ 0.026 χ^2/NDF : 5111017.1/54

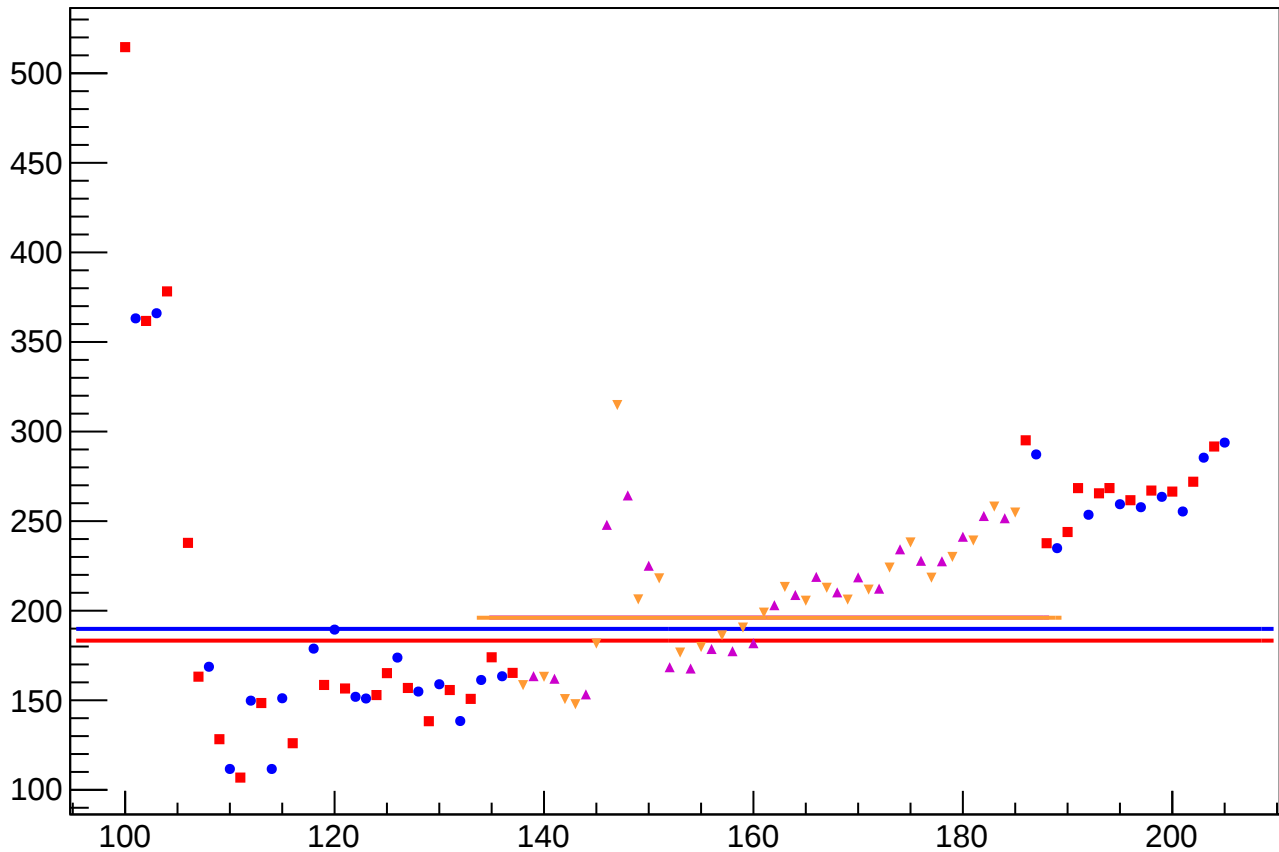
All: 197.015 $\pm$ 0.018 χ^2/NDF : 9617147.7/103

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130330.665 $\pm$ 0.056	χ^2 /NDF: 10049400577.1/25	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: 130396.736 $\pm$ 0.038	χ^2 /NDF: 20892659045.9
Right Out: 130454.296 $\pm$ 0.052	χ^2 /NDF: 10840665946.6/29	In: 129717.891 $\pm$ 0.037	χ^2 /NDF: 11470047574.9/4
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129831.414 $\pm$ 0.035	χ^2 /NDF: 12545378815.2
		All: 129777.315 $\pm$ 0.025	χ^2 /NDF: 240204765

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 189.853+/-0.040 χ^2/NDF : 2346530.3/25

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 183.298+/-0.037 χ^2/NDF : 2953472.0/29

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

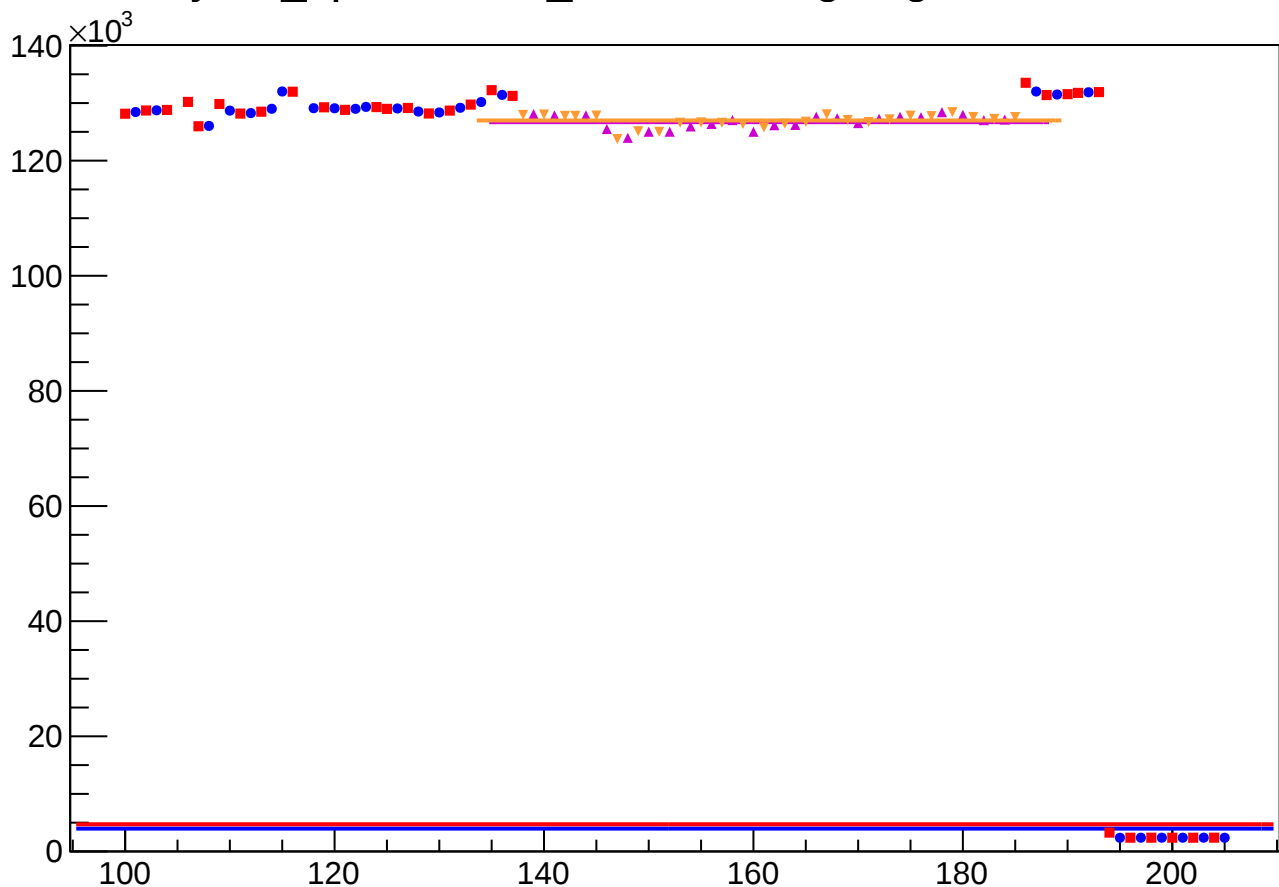
Right: 186.350+/-0.027 χ^2/NDF : 5314580.2/55

In: 193.501+/-0.026 χ^2/NDF : 3259253.3/48

Out: 190.416+/-0.025 χ^2/NDF : 3995459.8/54

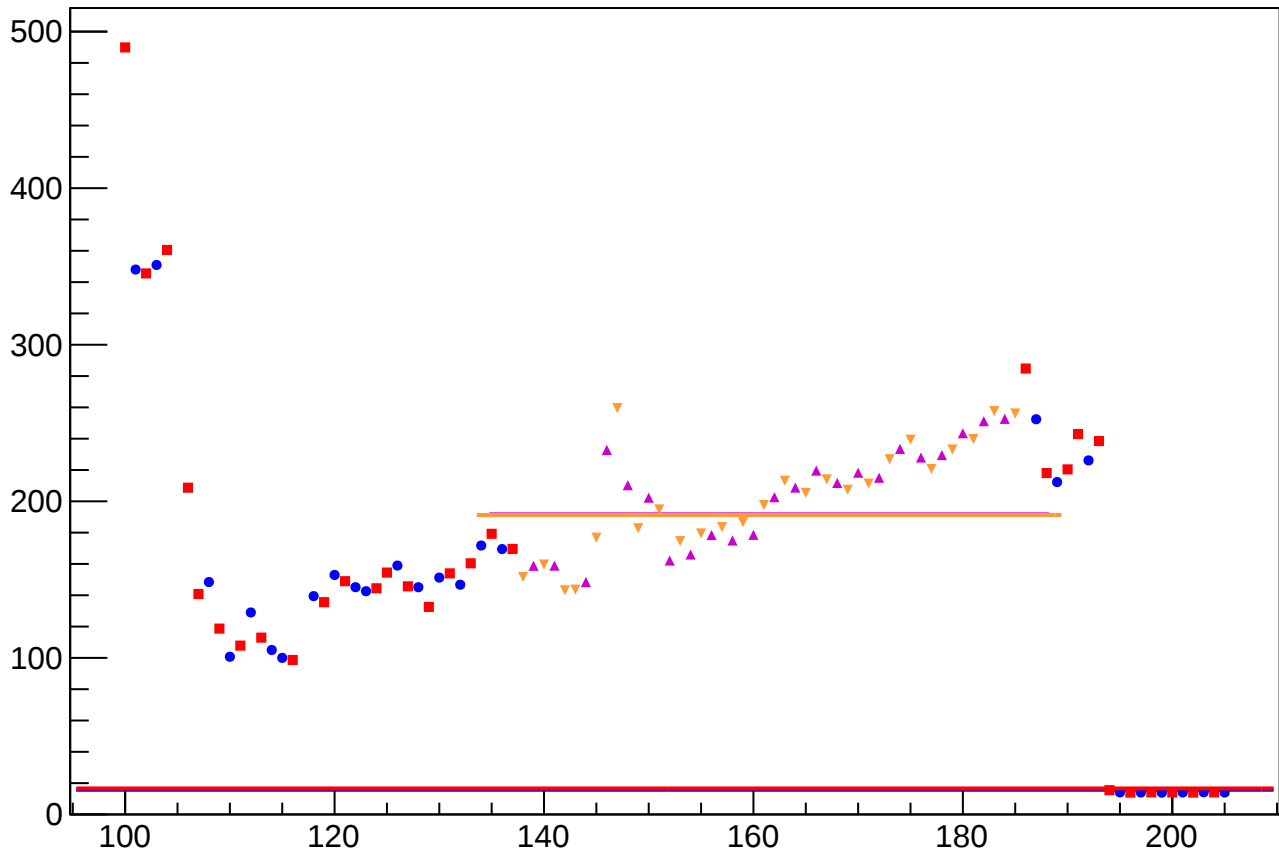
All: 191.886+/-0.018 χ^2/NDF : 7262175.3/103

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3969.499 $\pm$ 0.006 χ^2 /NDF: 4870229274996.6/25
 Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24
 Right Out: 4721.278 $\pm$ 0.007 χ^2 /NDF: 5777748228100.8/29
 Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22
 Left: 126836.943 $\pm$ 0.033 χ^2 /NDF: 1211882944.2/24
 Right: 4310.514 $\pm$ 0.005 χ^2 /NDF: 10654278273519
 In: 6189.582 $\pm$ 0.006 χ^2 /NDF: 11566508393429.8
 Out: 7545.956 $\pm$ 0.007 χ^2 /NDF: 12824656422760.
 All: 6806.568 $\pm$ 0.005 χ^2 /NDF: 24412111456

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.783+/-0.005 χ^2/NDF : 13257709.8/25

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 16.598+/-0.005 χ^2/NDF : 15494056.7/29

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

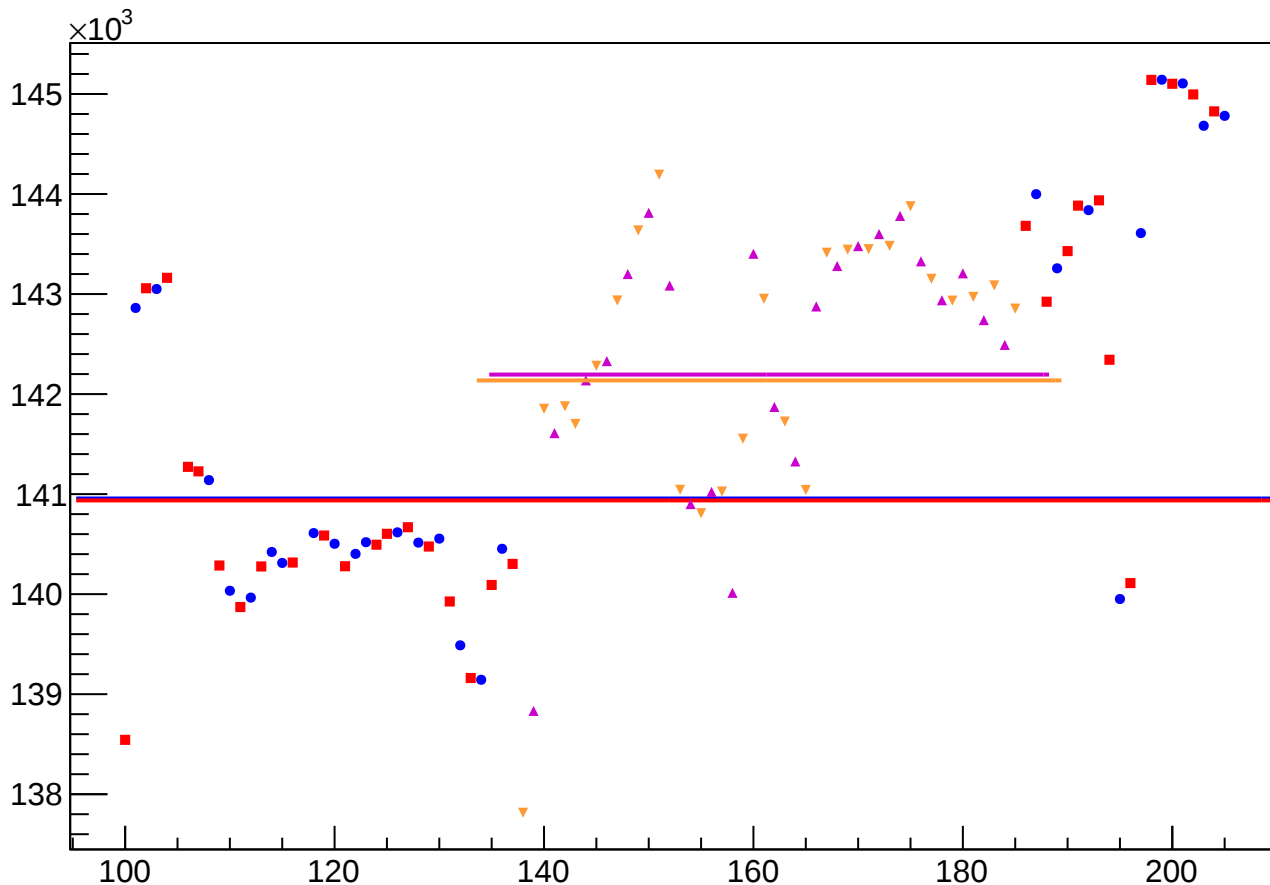
Right: 16.153+/-0.003 χ^2/NDF : 28766583.0/55

In: 18.966+/-0.004 χ^2/NDF : 41636929.7/48

Out: 20.634+/-0.005 χ^2/NDF : 45249622.0/54

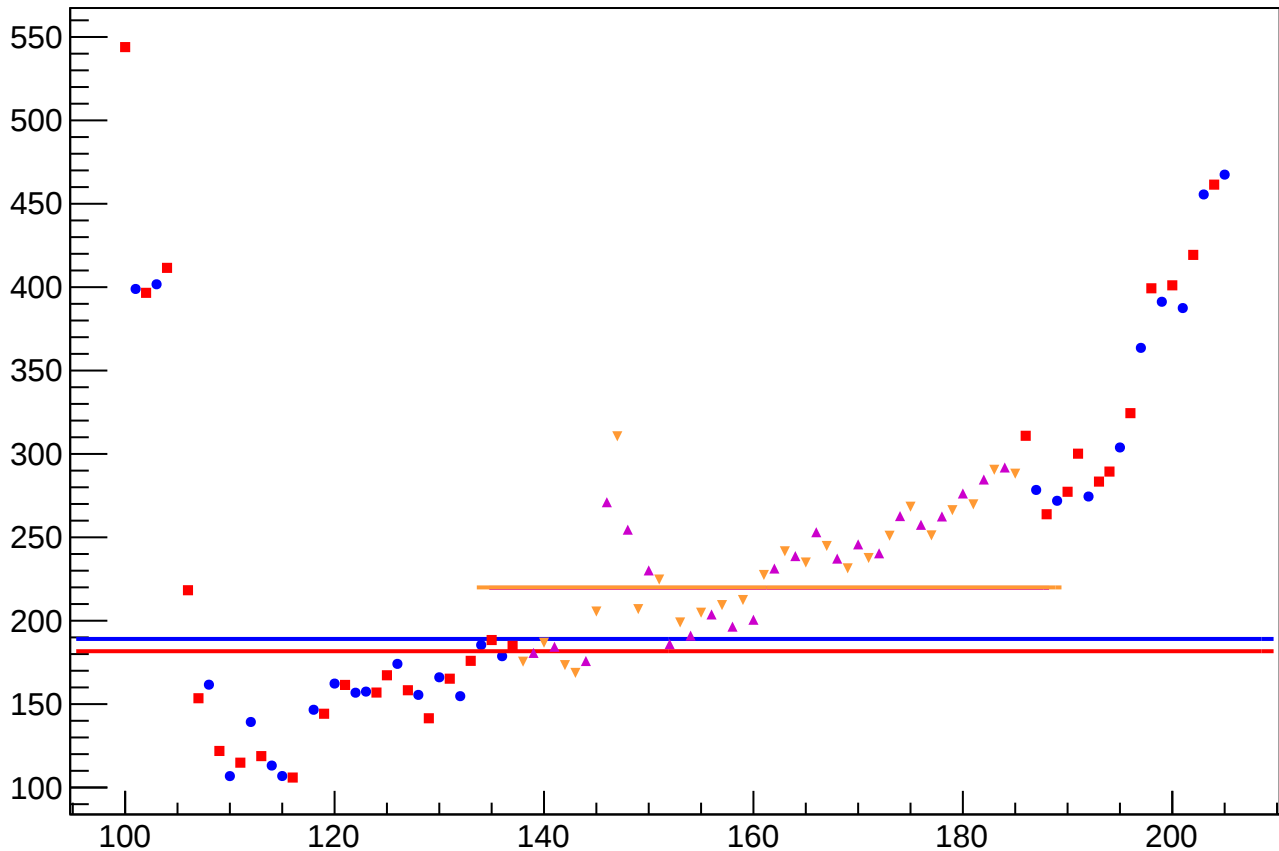
All: 19.724+/-0.003 χ^2/NDF : 86949927.5/103

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140956.064 $\pm$ 0.058	χ^2 /NDF: 653576070.8/25	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: 140945.760 $\pm$ 0.040	χ^2 /NDF: 1355117592.5/4
Right Out: 140937.000 $\pm$ 0.054	χ^2 /NDF: 701483875.1/29	In: 141625.253 $\pm$ 0.040	χ^2 /NDF: 1540929027.3/4
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141553.720 $\pm$ 0.038	χ^2 /NDF: 1772425938.6/5
		All: 141587.570 $\pm$ 0.027	χ^2 /NDF: 331507516

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 189.073+/-0.041 χ^2/NDF : 4491982.0/25

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 181.716+/-0.038 χ^2/NDF : 4913338.6/29

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

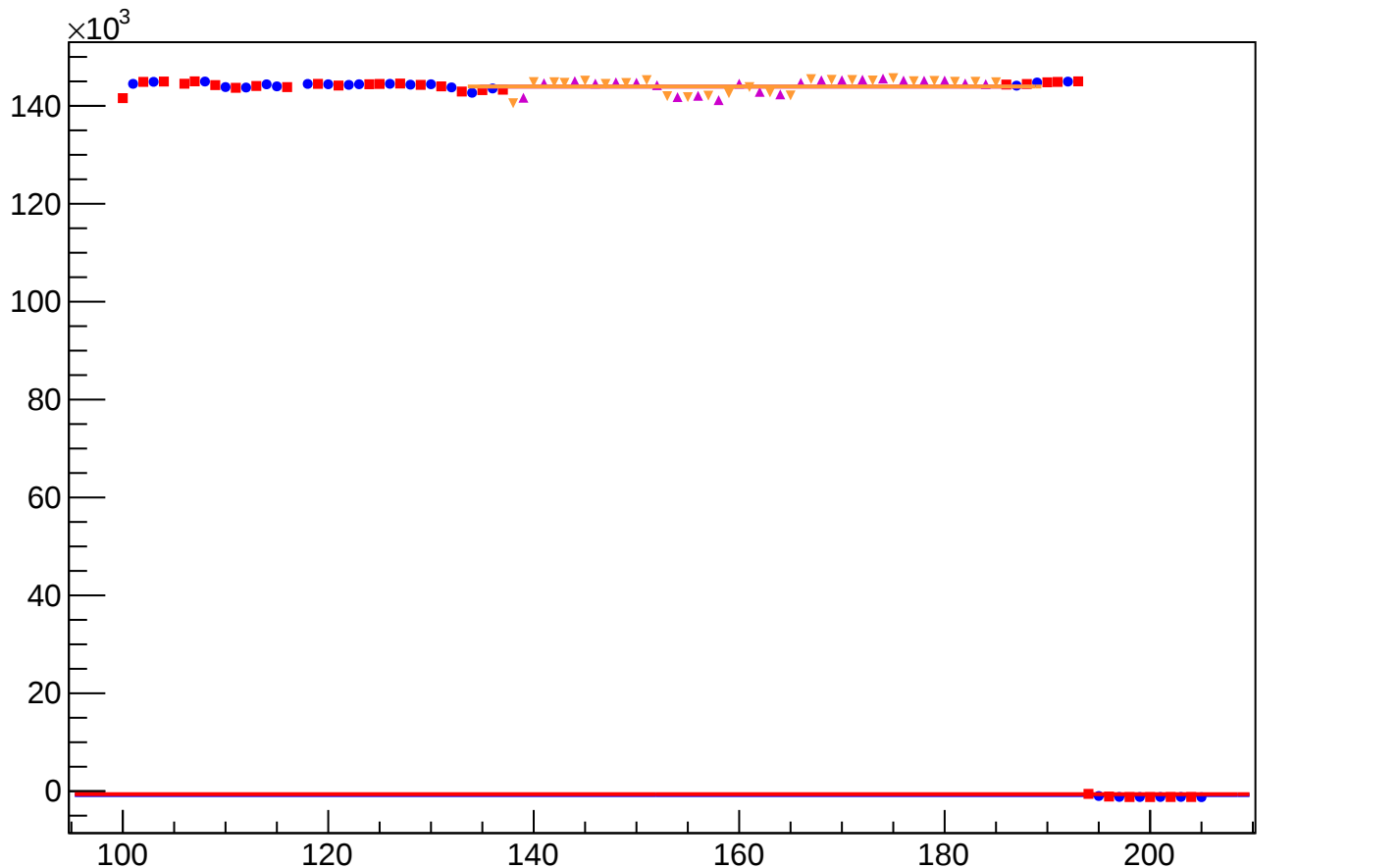
Right: 185.096+/-0.028 χ^2/NDF : 9422493.4/55

In: 205.607+/-0.028 χ^2/NDF : 5601804.3/48

Out: 201.382+/-0.027 χ^2/NDF : 6299333.2/54

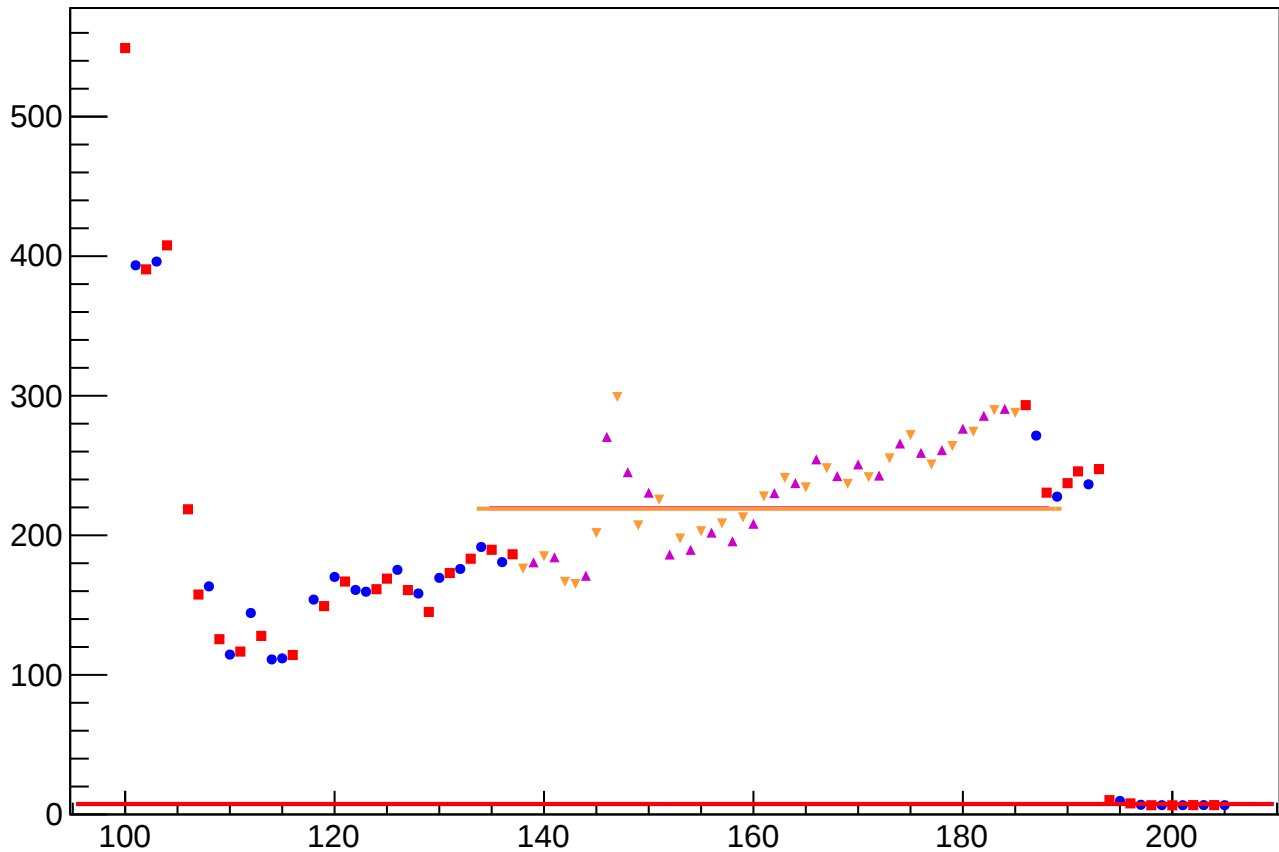
All: 203.381+/-0.019 χ^2/NDF : 11913138.2/100

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -790.612 ± 0.003 $\chi^2/\text{NDF}: 5292633373259.6/25$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -608.560 ± 0.004 $\chi^2/\text{NDF}: 6391255585736.2/29$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 All: -128.579 ± 0.002 $\chi^2/\text{NDF}: 26543404114$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.413 ± 0.002 $\chi^2/\text{NDF}: 14899674.2/25$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.566 ± 0.002 $\chi^2/\text{NDF}: 17421256.4/29$

Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

Left: 219.232 ± 0.026 $\chi^2/\text{NDF}: 1784557.4/47$

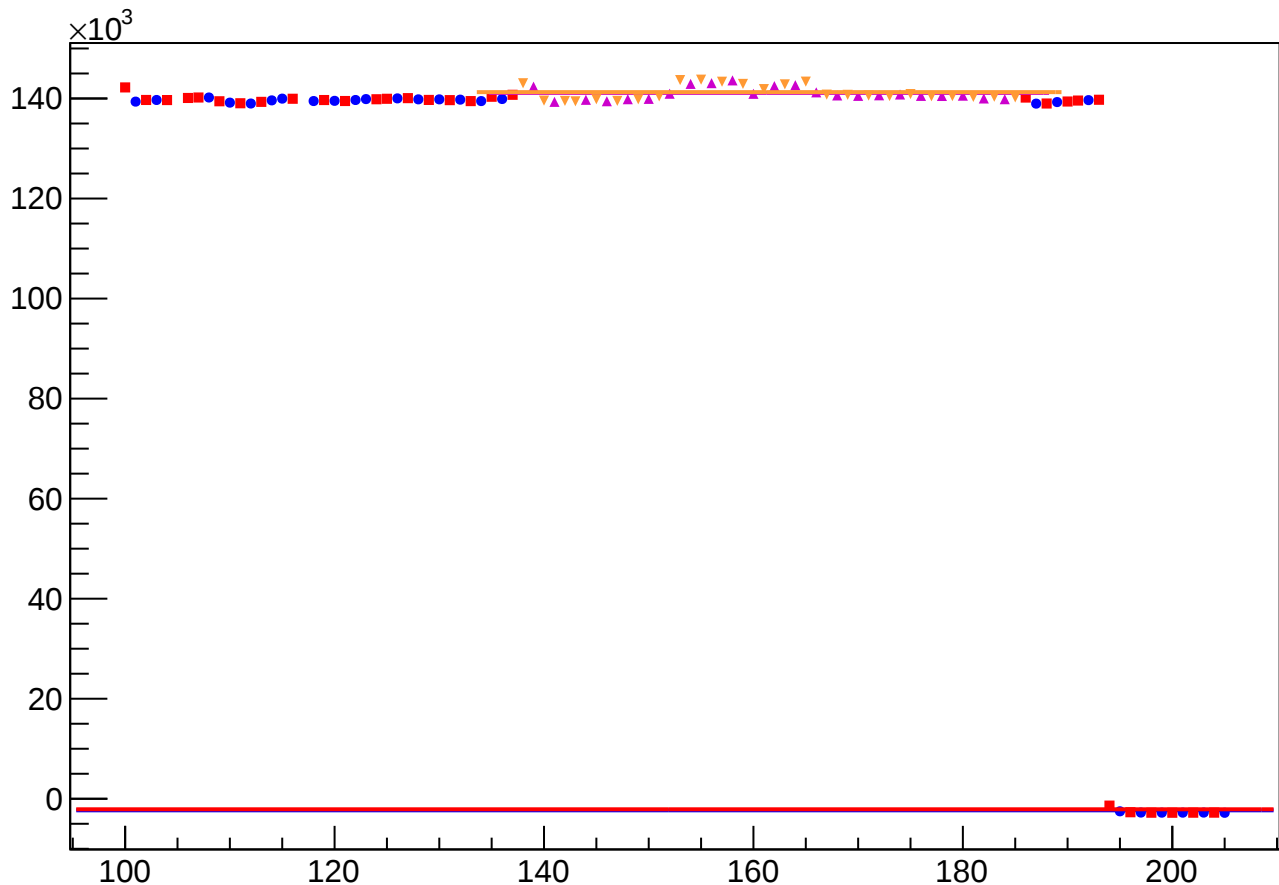
Right: 7.483 ± 0.002 $\chi^2/\text{NDF}: 32322981.7/55$

In: 8.169 ± 0.002 $\chi^2/\text{NDF}: 46650827.5/48$

Out: 8.523 ± 0.002 $\chi^2/\text{NDF}: 51115686.0/54$

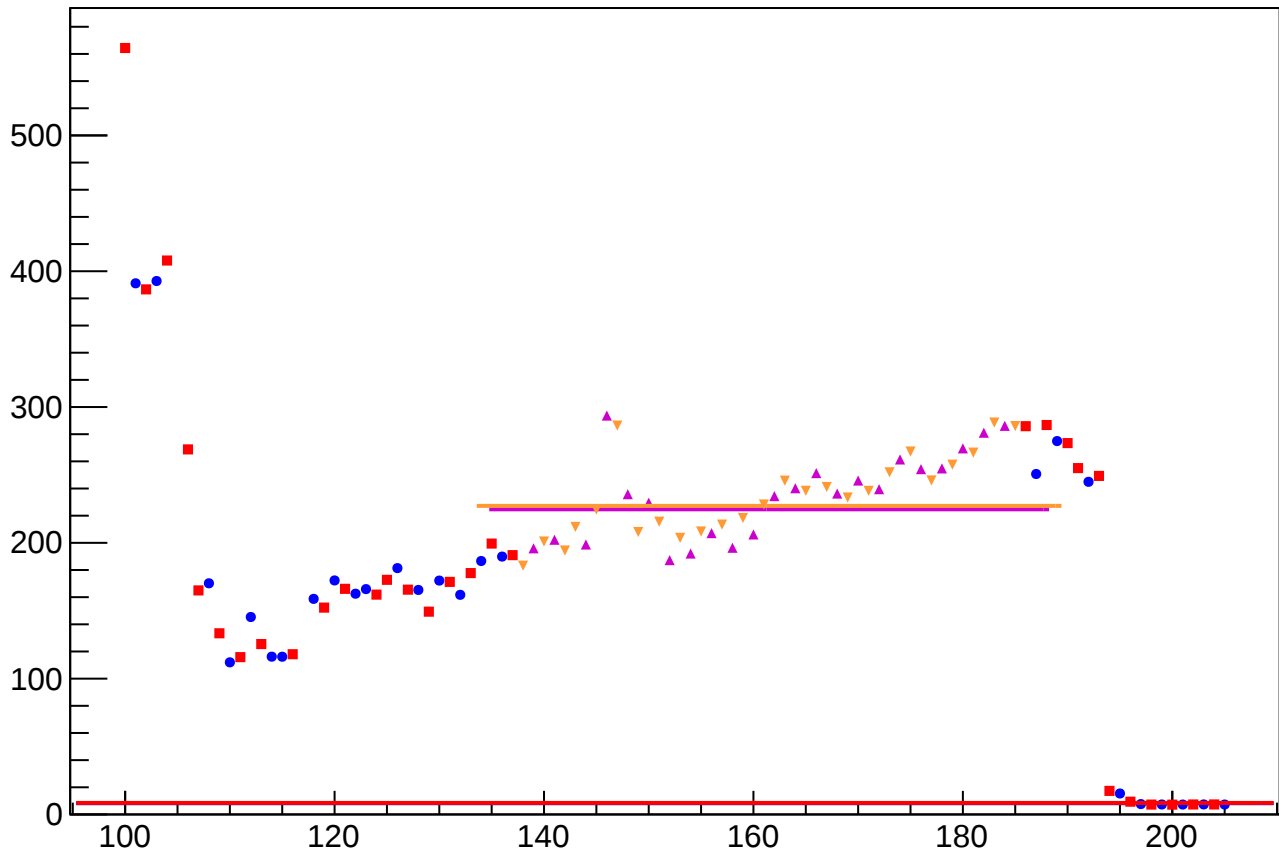
All: 8.330 ± 0.002 $\chi^2/\text{NDF}: 97777615.6/103$

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2309.414 $\pm$ 0.004	χ^2 /NDF: 4861007150465.5/25	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/25
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2216.265 $\pm$ 0.003	χ^2 /NDF: 1064227732511.1/24
Right Out: -2105.402 $\pm$ 0.004	χ^2 /NDF: 5779837230292.1/29	In: -1681.424 $\pm$ 0.004	χ^2 /NDF: 11653389844445.5/29
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1324.892 $\pm$ 0.004	χ^2 /NDF: 12870518851591.1/22
		All: -1518.541 $\pm$ 0.003	χ^2 /NDF: 2452830688.1/22

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.293 ± 0.003 $\chi^2/\text{NDF}: 15046562.4/25$

Left Out: 227.224 ± 0.038 $\chi^2/\text{NDF}: 484955.3/24$

Right Out: 8.481 ± 0.003 $\chi^2/\text{NDF}: 17447939.3/29$

Left In: 224.686 ± 0.039 $\chi^2/\text{NDF}: 578366.0/22$

Left: 225.984 ± 0.027 $\chi^2/\text{NDF}: 1065504.5/47$

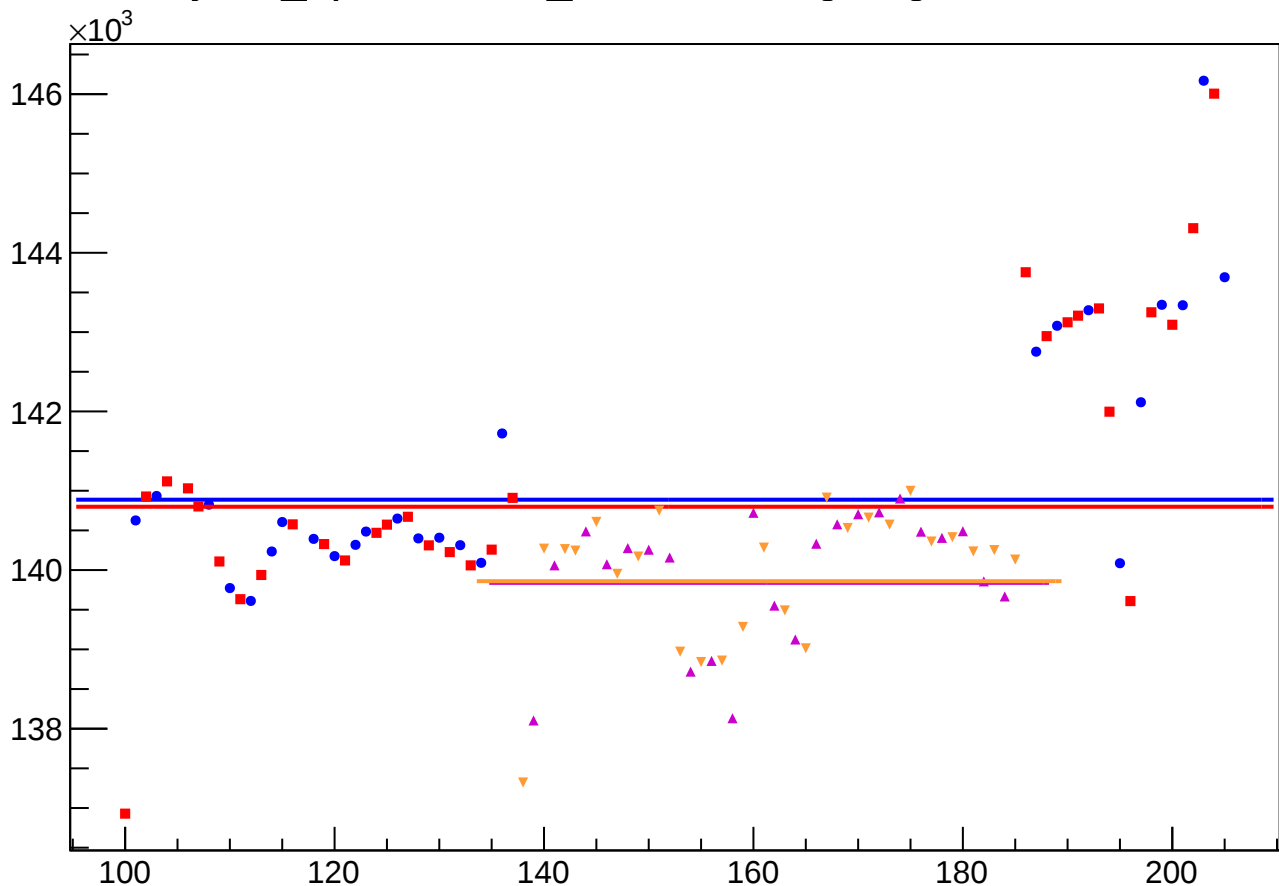
Right: 8.379 ± 0.002 $\chi^2/\text{NDF}: 32496954.3/55$

In: 9.240 ± 0.003 $\chi^2/\text{NDF}: 46544381.5/48$

Out: 9.672 ± 0.003 $\chi^2/\text{NDF}: 50938978.6/54$

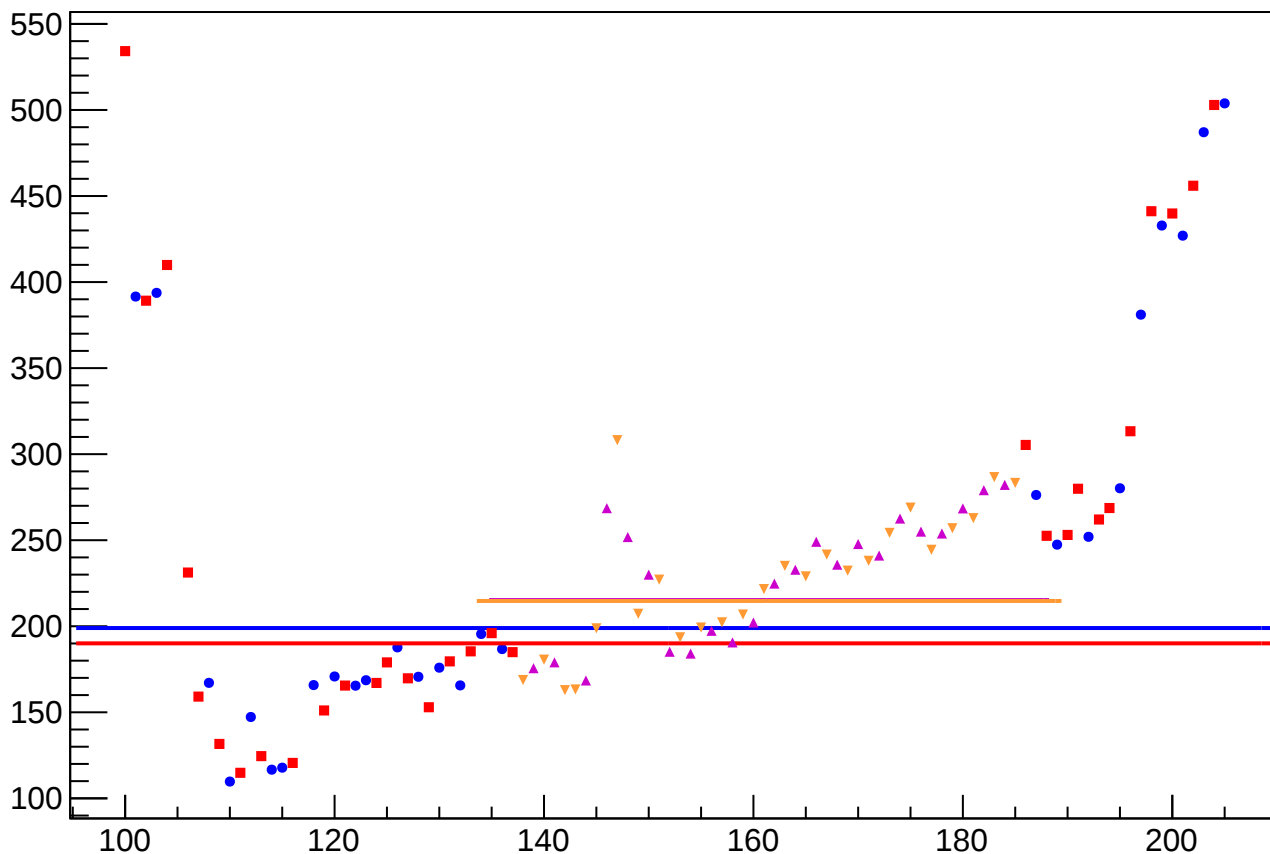
All: 9.438 ± 0.002 $\chi^2/\text{NDF}: 97496279.0/103$

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140887.133 $\pm$ 0.061	χ^2 /NDF: 428261737.9/25	Left: 139849.553 $\pm$ 0.037	χ^2 /NDF: 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 140838.808 $\pm$ 0.041	χ^2 /NDF: 933783110.6/5
Right Out: 140798.428 $\pm$ 0.056	χ^2 /NDF: 504374298.0/29	In: 140286.663 $\pm$ 0.040	χ^2 /NDF: 876298229.8/48
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140287.169 $\pm$ 0.038	χ^2 /NDF: 988187521.7/54
		All: 140286.931 $\pm$ 0.027	χ^2 /NDF: 186448583

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 198.964 +/- 0.043 χ^2/NDF : 4206412.2/25

Left Out: 214.693 +/- 0.036 χ^2/NDF : 981105.5/24

Right Out: 190.058 +/- 0.040 χ^2/NDF : 4519884.2/29

Left In: 215.222 +/- 0.037 χ^2/NDF : 881945.0/22

Left: 214.949 +/- 0.026 χ^2/NDF : 1863154.2/47

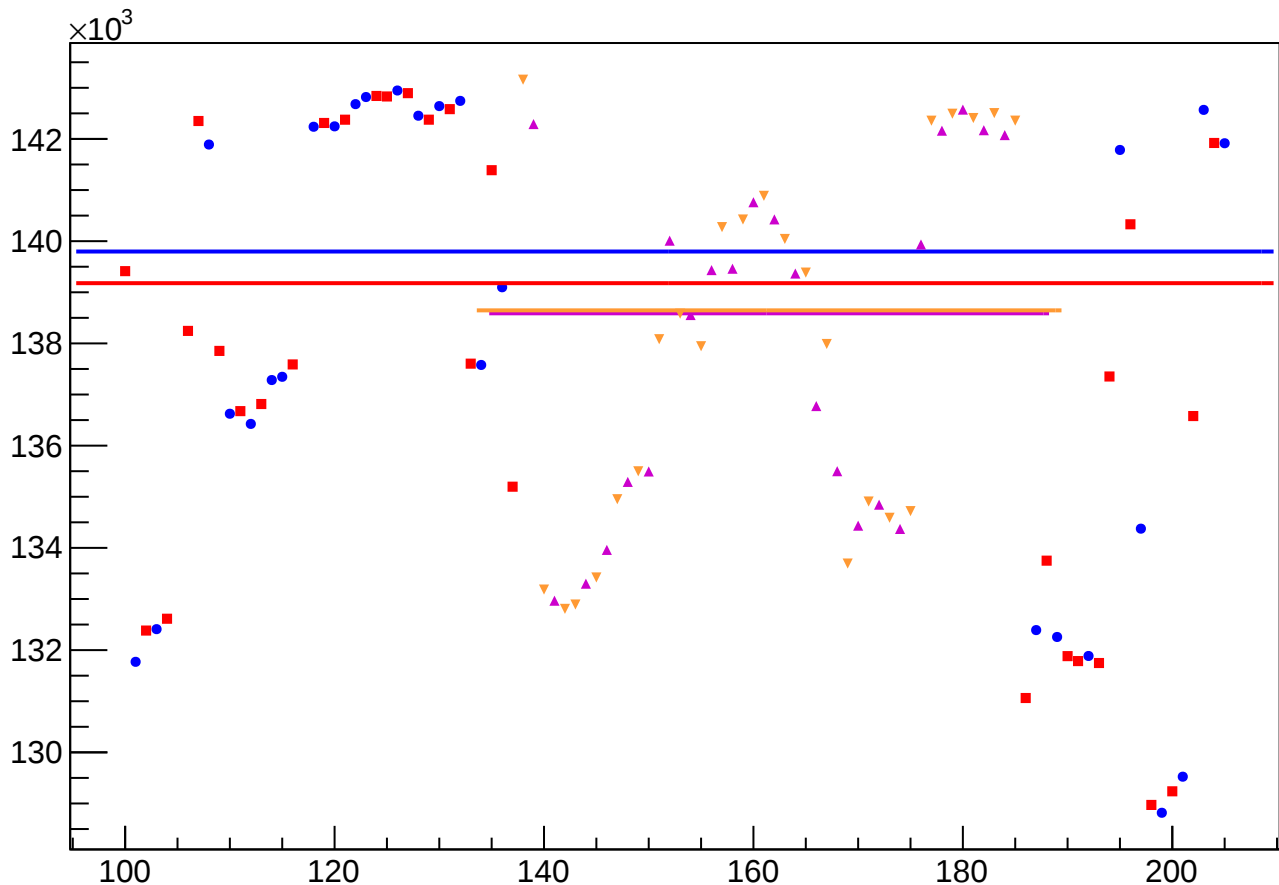
Right: 194.112 +/- 0.029 χ^2/NDF : 8749422.4/55

In: 208.276 +/- 0.028 χ^2/NDF : 5169376.7/48

Out: 203.475 +/- 0.027 χ^2/NDF : 5712679.2/54

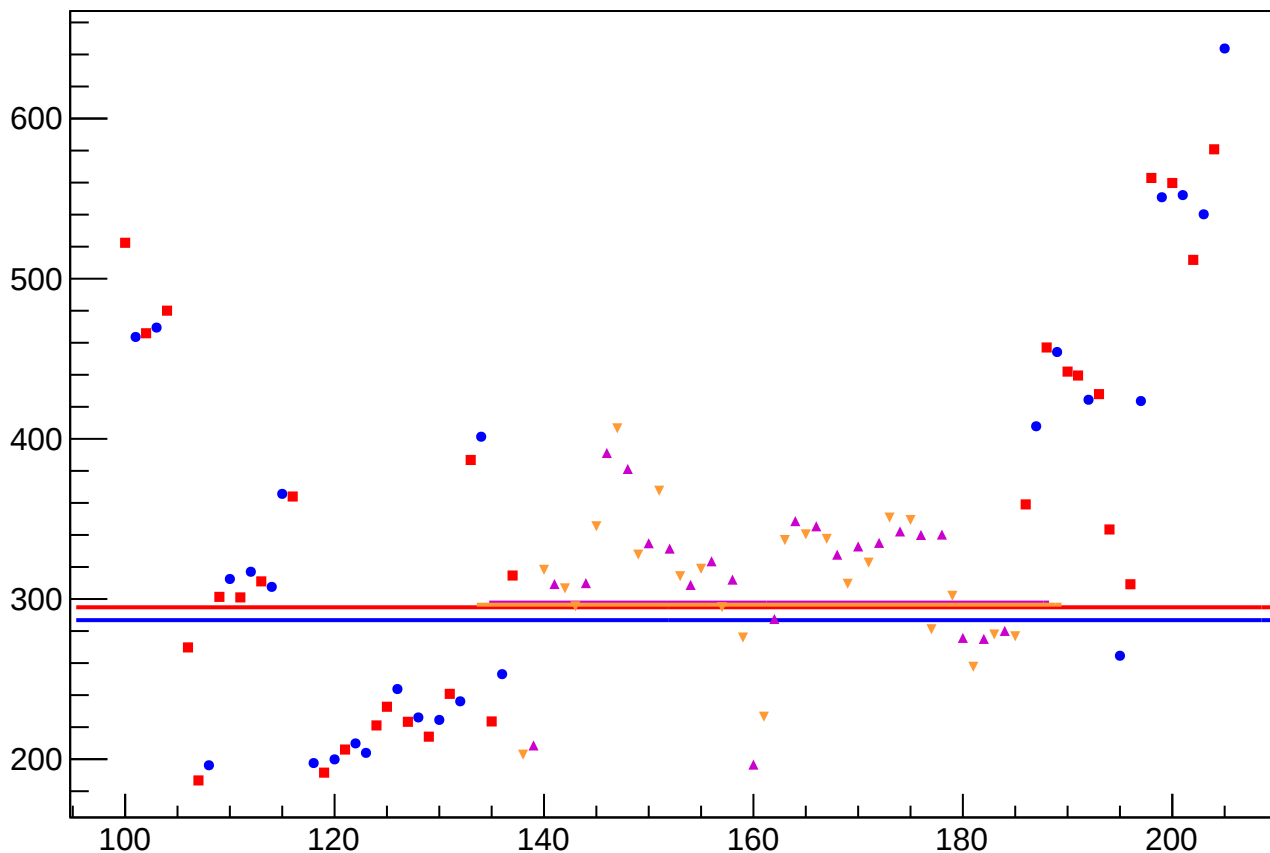
All: 205.736 +/- 0.019 χ^2/NDF : 10897326.4/10

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139797.512 $\pm$ 0.087	χ^2 /NDF: 2196546585.7/25	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: 139480.794 $\pm$ 0.061	χ^2 /NDF: 4570899475.5/
Right Out: 139178.344 $\pm$ 0.085	χ^2 /NDF: 2348291266.9/29	In: 139095.181 $\pm$ 0.056	χ^2 /NDF: 4257439656.1/48
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138865.156 $\pm$ 0.054	χ^2 /NDF: 4920115452.3/5
		All: 138976.451 $\pm$ 0.039	χ^2 /NDF: 918621789

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 286.805 $\pm$ 0.061 χ^2 /NDF: 3270885.5/25

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 294.840 $\pm$ 0.060 χ^2 /NDF: 3251410.3/29

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

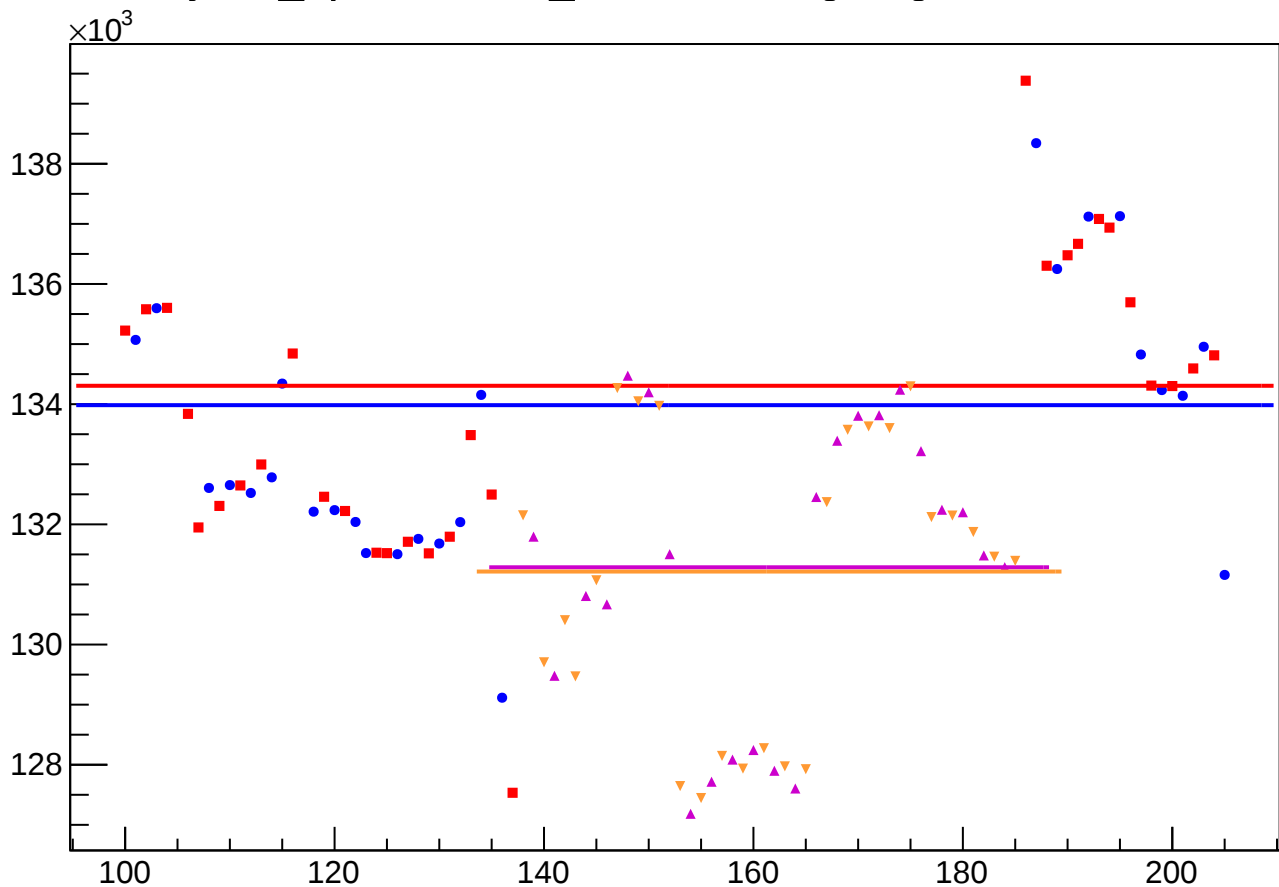
Right: 290.915 $\pm$ 0.043 χ^2 /NDF: 6531073.1/55

In: 293.178 $\pm$ 0.040 χ^2 /NDF: 4350957.3/48

Out: 295.796 $\pm$ 0.038 χ^2 /NDF: 4145422.6/54

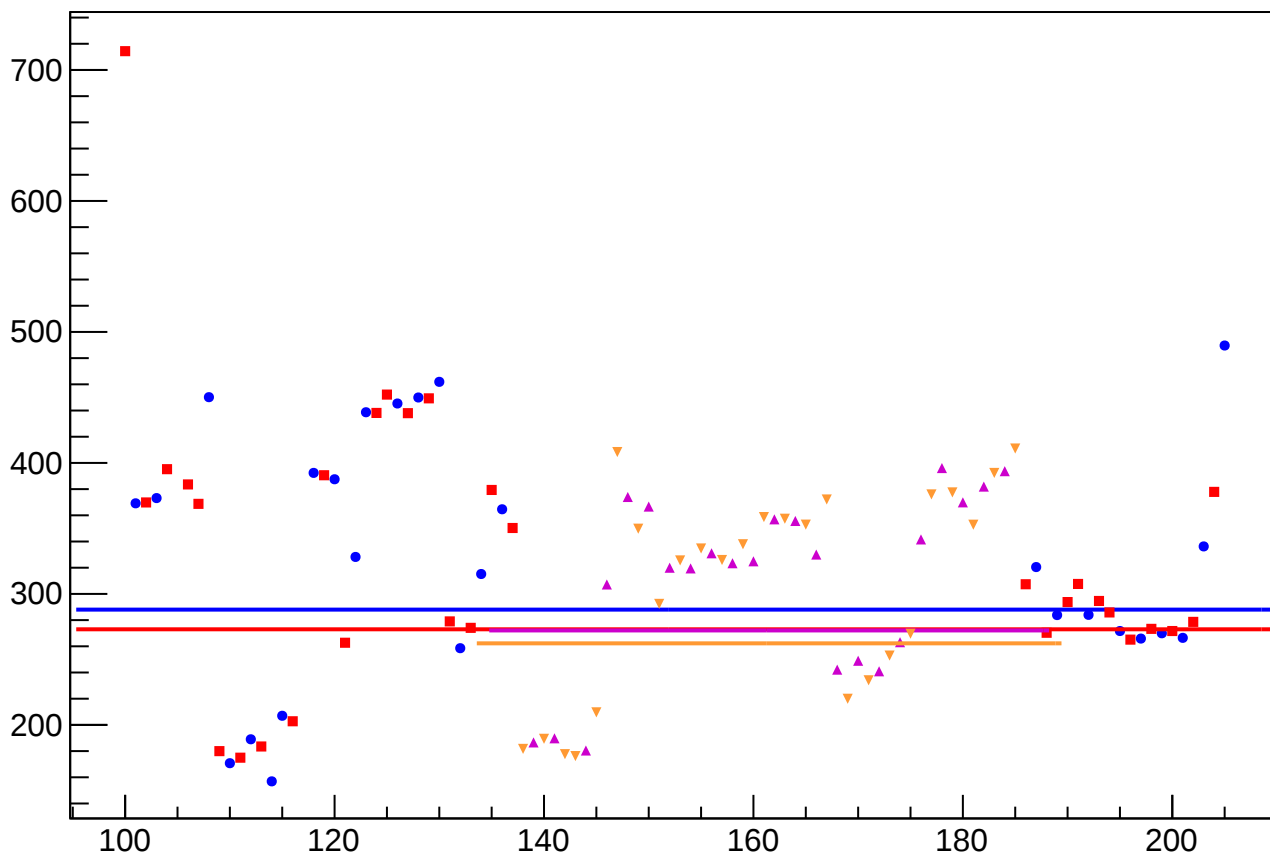
All: 294.530 $\pm$ 0.028 χ^2 /NDF: 8498624.0/103

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133983.561 $\pm$ 0.084	χ^2 /NDF: 623661441.9/25	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: 134160.303 $\pm$ 0.056	χ^2 /NDF: 1310165095.1/4
Right Out: 134306.068 $\pm$ 0.076	χ^2 /NDF: 678392503.4/29	In: 132362.690 $\pm$ 0.053	χ^2 /NDF: 2302173782.4/48
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132502.343 $\pm$ 0.049	χ^2 /NDF: 2813811934.8/5
		All: 132437.757 $\pm$ 0.036	χ^2 /NDF: 511972242.1/22

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 288.013 ± 0.059 $\chi^2/\text{NDF}: 1852251.9/25$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 272.980 ± 0.054 $\chi^2/\text{NDF}: 1776409.5/29$

Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

Left: 266.889 ± 0.033 $\chi^2/\text{NDF}: 5062151.8/47$

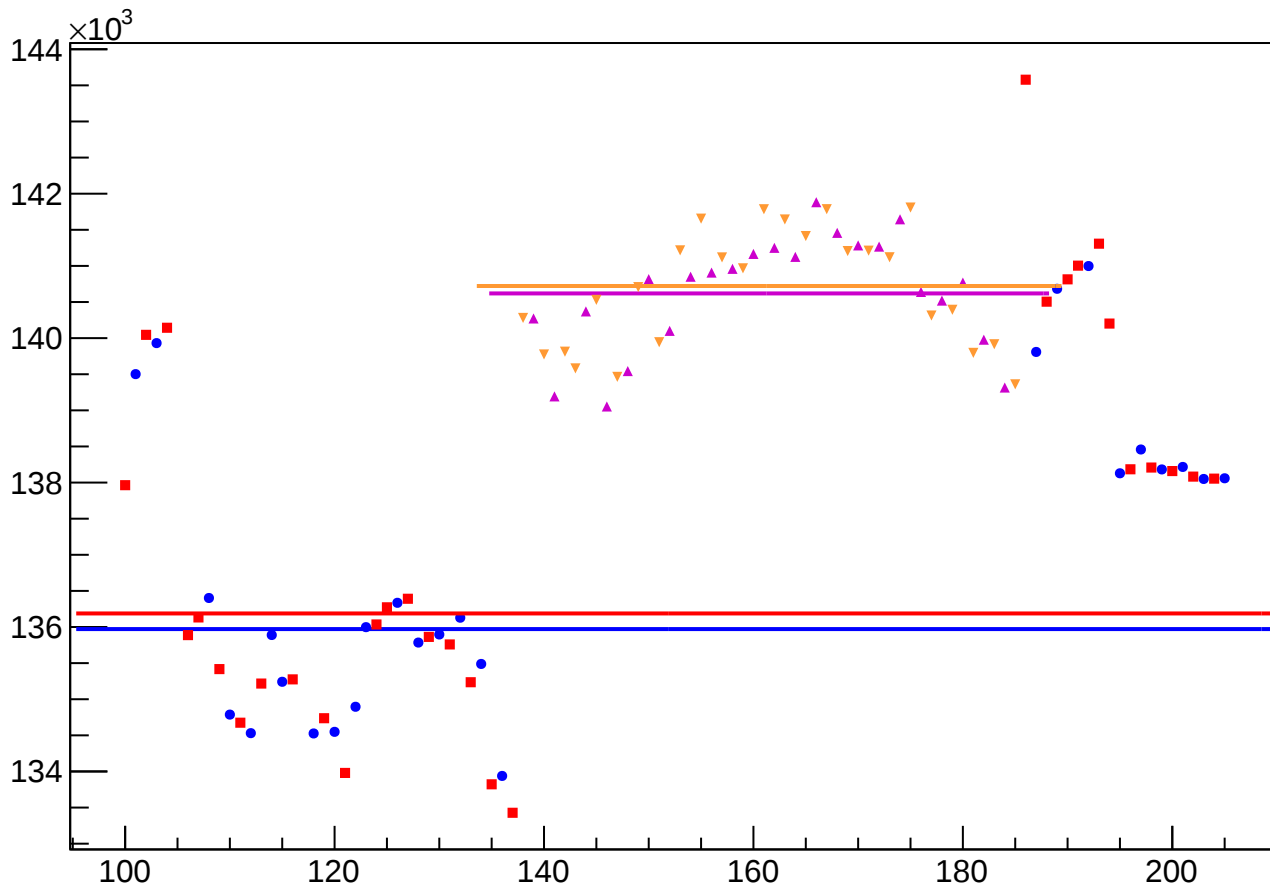
Right: 279.775 ± 0.040 $\chi^2/\text{NDF}: 3663904.9/55$

In: 278.461 ± 0.037 $\chi^2/\text{NDF}: 4117391.2/48$

Out: 266.725 ± 0.035 $\chi^2/\text{NDF}: 4617722.3/54$

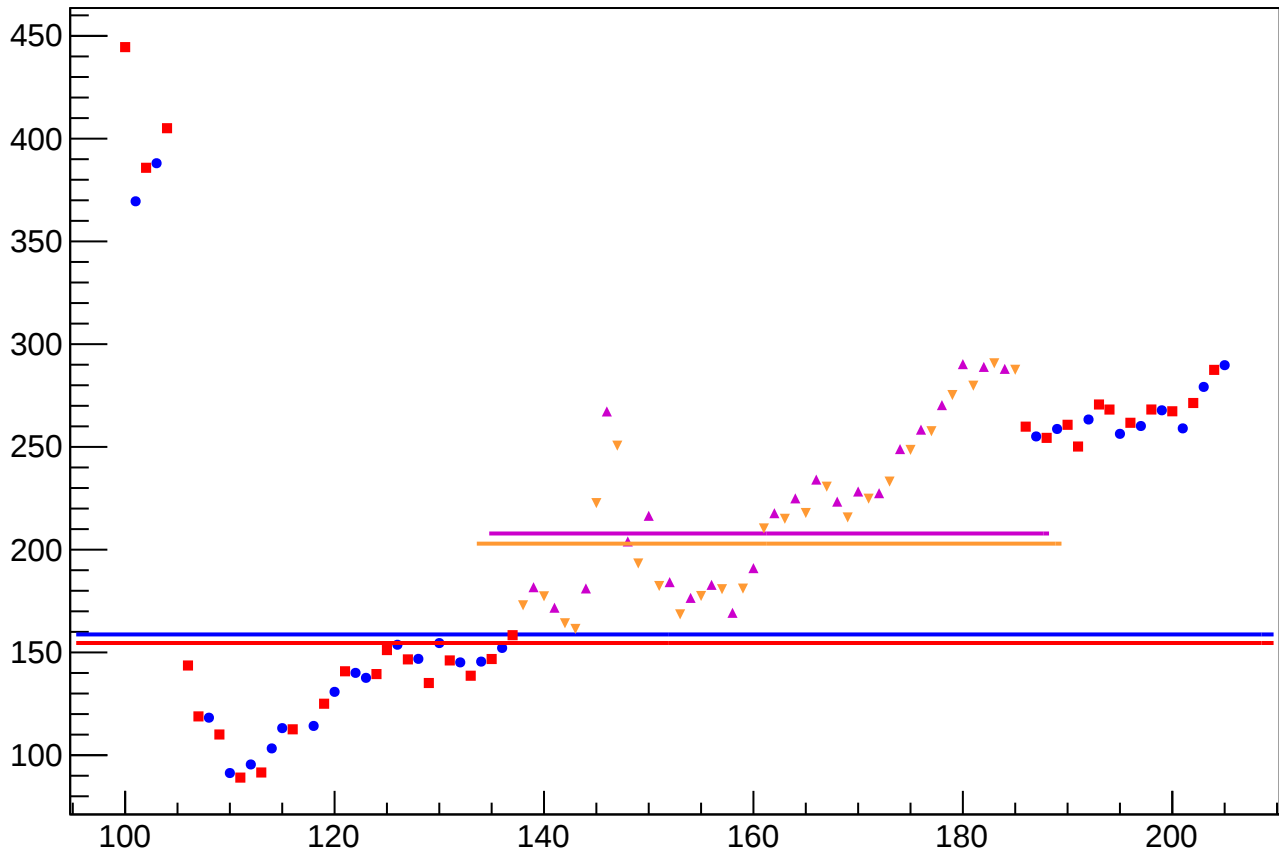
All: 272.153 ± 0.025 $\chi^2/\text{NDF}: 8787900.4/103$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135971.483 $\pm$ 0.048	χ^2 /NDF: 1412217780.7/25	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 136086.251 $\pm$ 0.033	χ^2 /NDF: 3477091196.5/5
Right Out: 136187.882 $\pm$ 0.046	χ^2 /NDF: 2054283043.9/29	In: 138171.162 $\pm$ 0.035	χ^2 /NDF: 5971912521.5/48
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138318.160 $\pm$ 0.033	χ^2 /NDF: 6952485563.6/5
		All: 138248.884 $\pm$ 0.024	χ^2 /NDF: 129336477

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 158.752 $\pm$ 0.034 χ^2 /NDF: 3981440.1/25

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 154.586 $\pm$ 0.032 χ^2 /NDF: 4562201.6/29

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

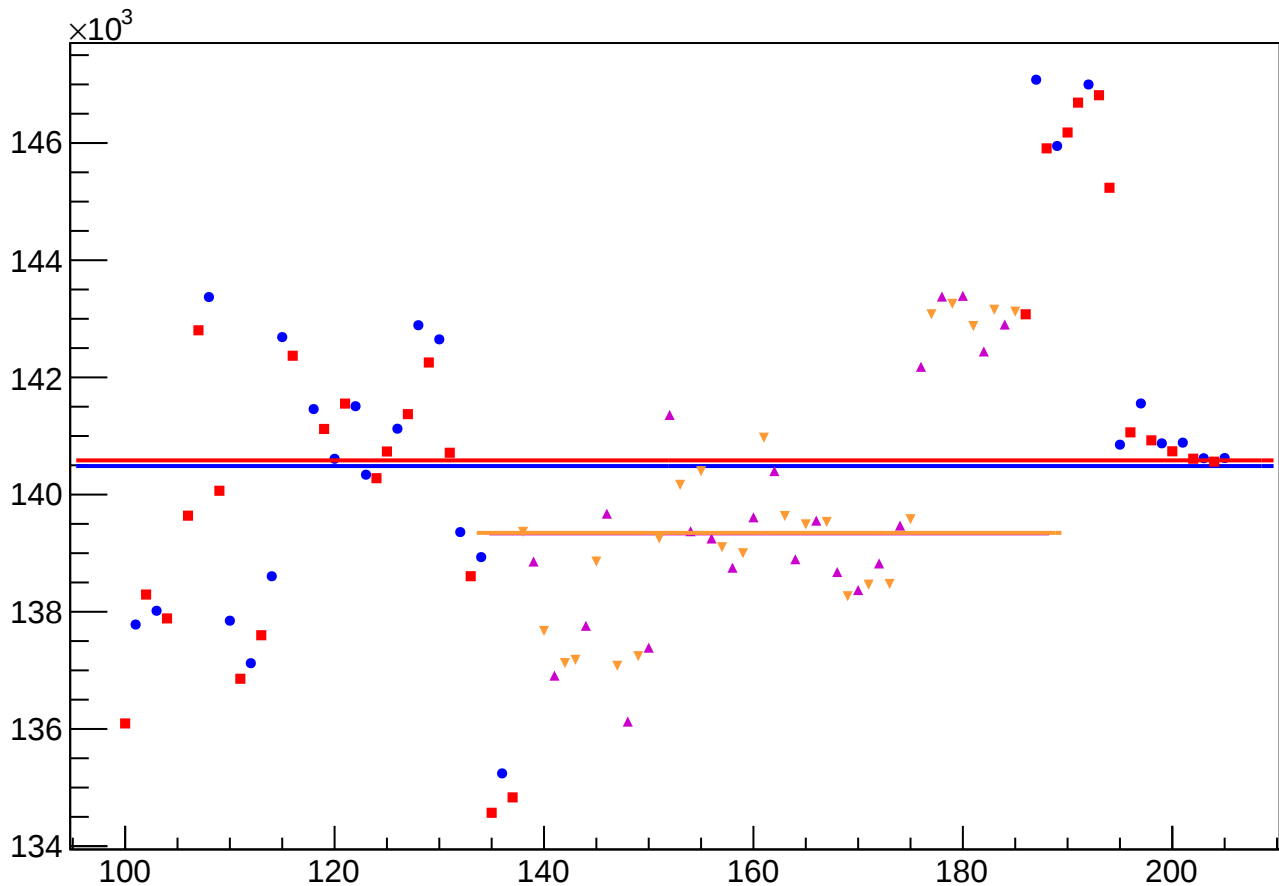
Right: 156.543 $\pm$ 0.023 χ^2 /NDF: 8551489.2/55

In: 182.000 $\pm$ 0.025 χ^2 /NDF:5904556.4/48

Out: 177.303 $\pm$ 0.023 χ^2 /NDF:6672210.6/54

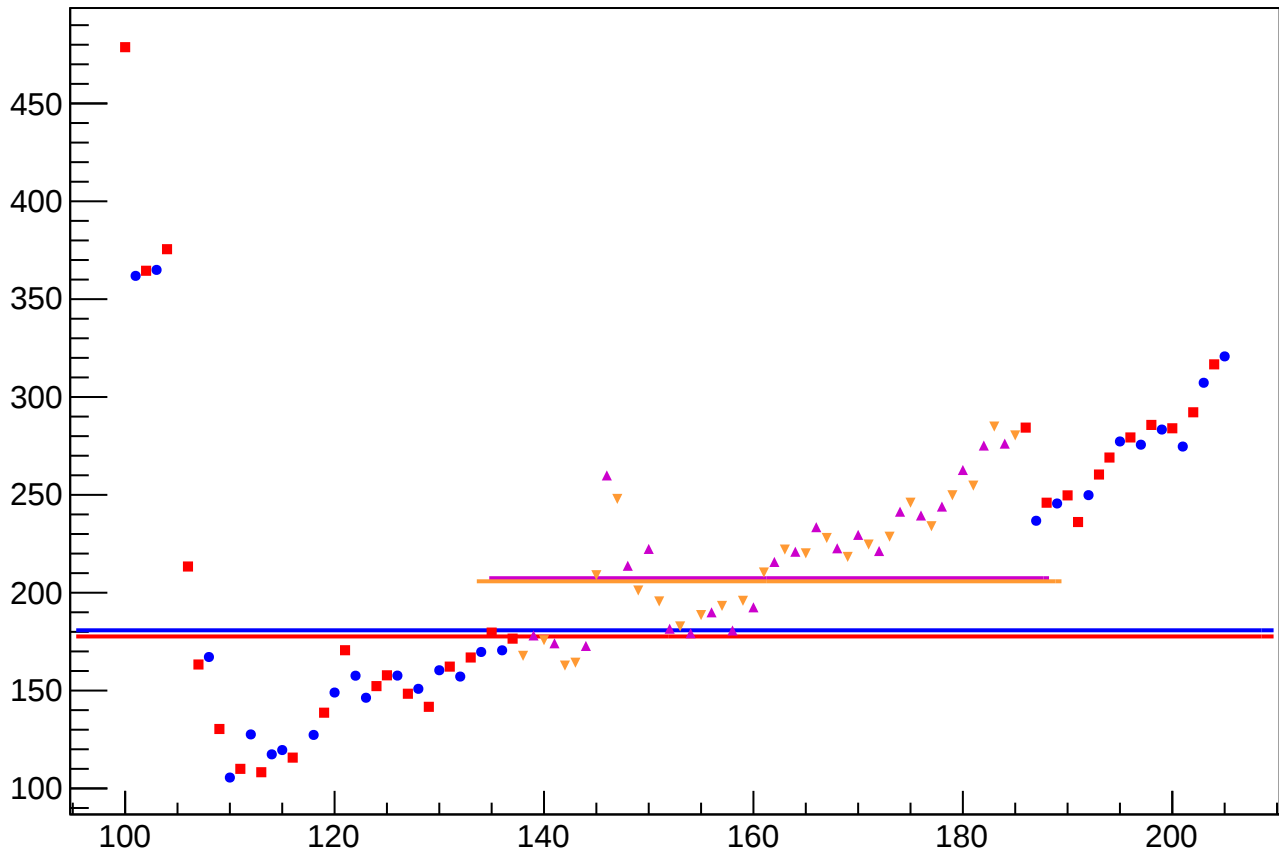
All: 179.516 $\pm$ 0.017 χ^2 /NDF: 12595659.4/100

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140486.744 $\pm$ 0.054 χ^2 /NDF: 2771120328.3/25
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140583.984 $\pm$ 0.051 χ^2 /NDF: 3211294353.6/29
 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: 140537.995 $\pm$ 0.037 χ^2 /NDF: 5984118851.4/4
 In: 139876.870 $\pm$ 0.037 χ^2 /NDF: 4303712742.5/48
 Out: 139937.380 $\pm$ 0.035 χ^2 /NDF: 4787363626.0/5
 All: 139908.498 $\pm$ 0.026 χ^2 /NDF: 909247128

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 180.797 $\pm$ 0.038 χ^2 /NDF: 3088019.5/25

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 177.649 $\pm$ 0.036 χ^2 /NDF: 3523594.6/29

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

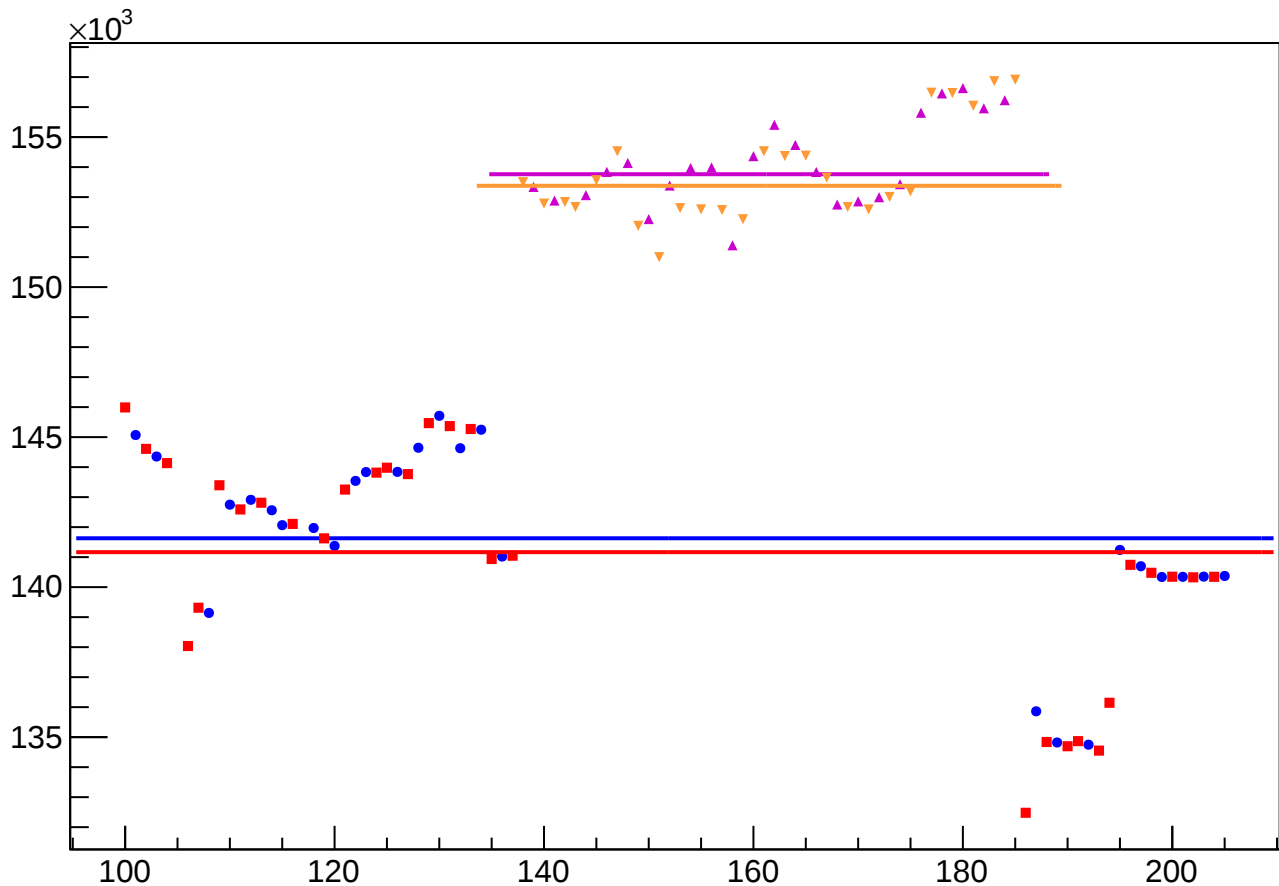
Right: 179.138 $\pm$ 0.026 χ^2 /NDF: 6615186.0/55

In: 194.928 $\pm$ 0.026 χ^2 /NDF: 4047219.2/48

Out: 192.377 $\pm$ 0.025 χ^2 /NDF: 4578616.0/54

All: 193.594 $\pm$ 0.018 χ^2 /NDF: 8630793.6/103

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141628.402+/-0.055

χ^2/NDF : 2673743399.0/25

Left Out: 153376.698+/-0.050

χ^2/NDF : 803848095.1/24

Right Out: 141165.744+/-0.051

χ^2/NDF : 4416771910.0/29

Left In: 153762.419+/-0.051

χ^2/NDF : 635075685.0/22

Left: 153562.262+/-0.036

χ^2/NDF : 1468093411.3/4

Right: 141379.588+/-0.037

χ^2/NDF : 7129163283.7/4

In: 148053.301+/-0.037

χ^2/NDF : 29482333475.6/4

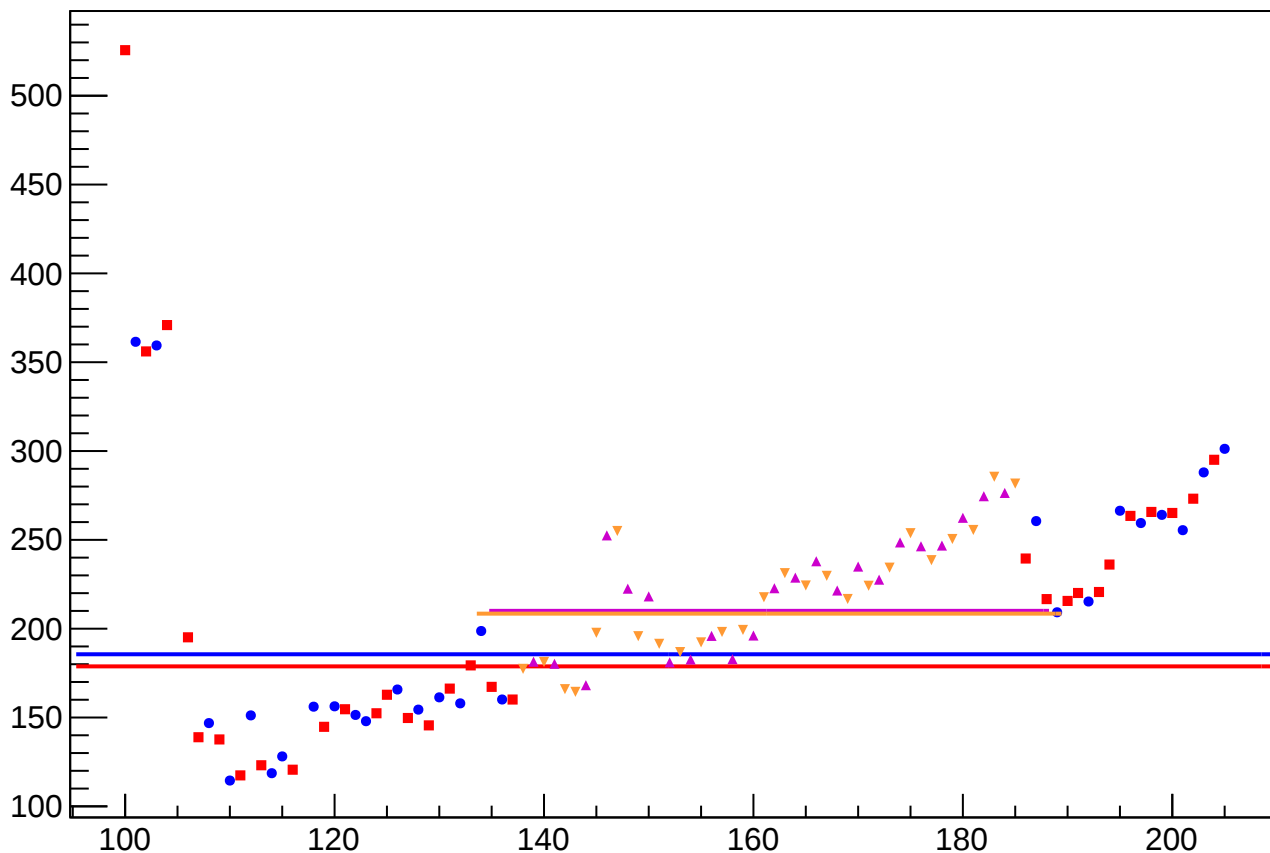
Out: 147400.494+/-0.035

χ^2/NDF : 34960340308.5/4

All: 147708.629+/-0.026

χ^2/NDF : 646032264.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 185.602 $\pm$ 0.039 χ^2 /NDF: 2283332.9/25

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 178.786 $\pm$ 0.036 χ^2 /NDF: 2565440.5/29

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

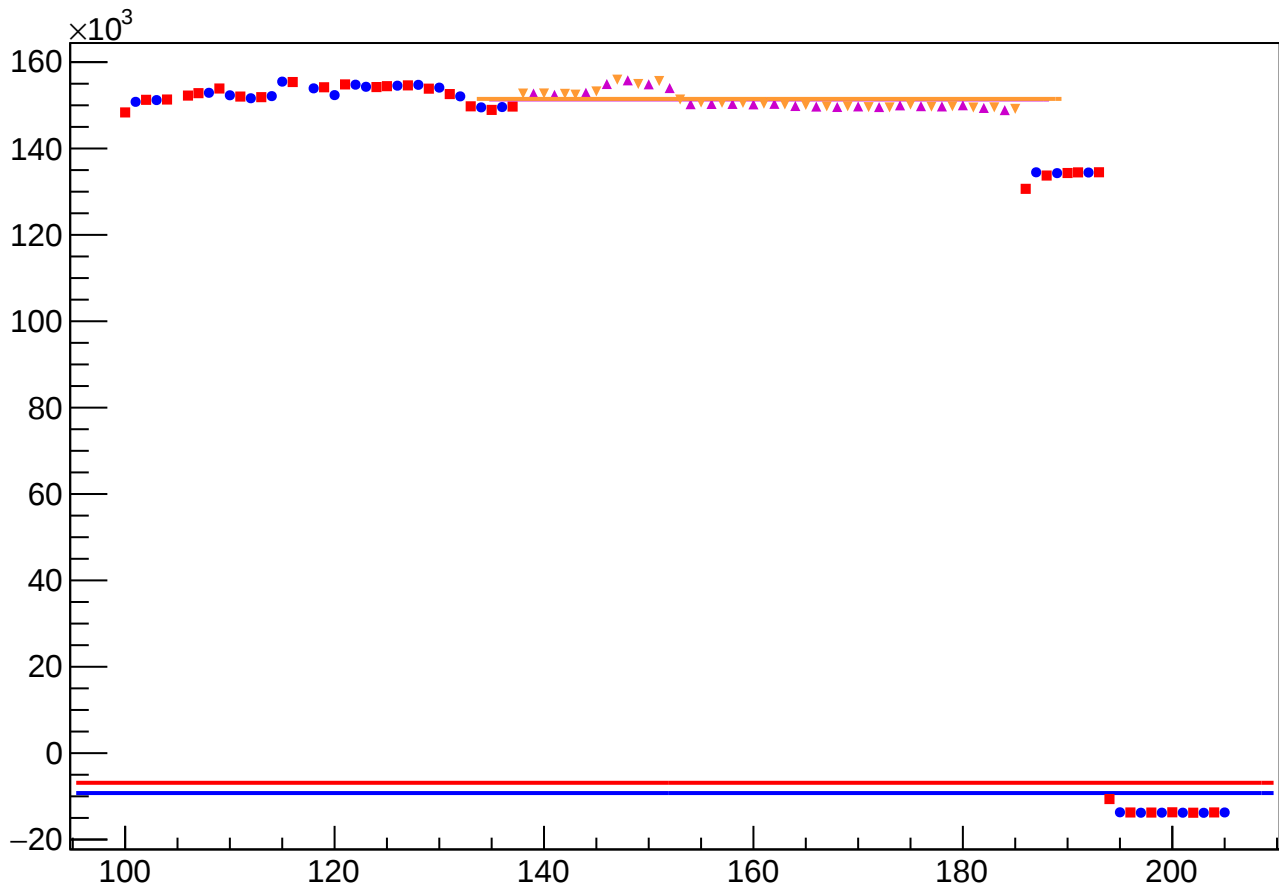
Right: 181.936 $\pm$ 0.026 χ^2 /NDF: 4865553.0/55

In: 198.541 $\pm$ 0.026 χ^2 /NDF: 3197989.8/48

Out: 193.940 $\pm$ 0.025 χ^2 /NDF: 3637735.2/54

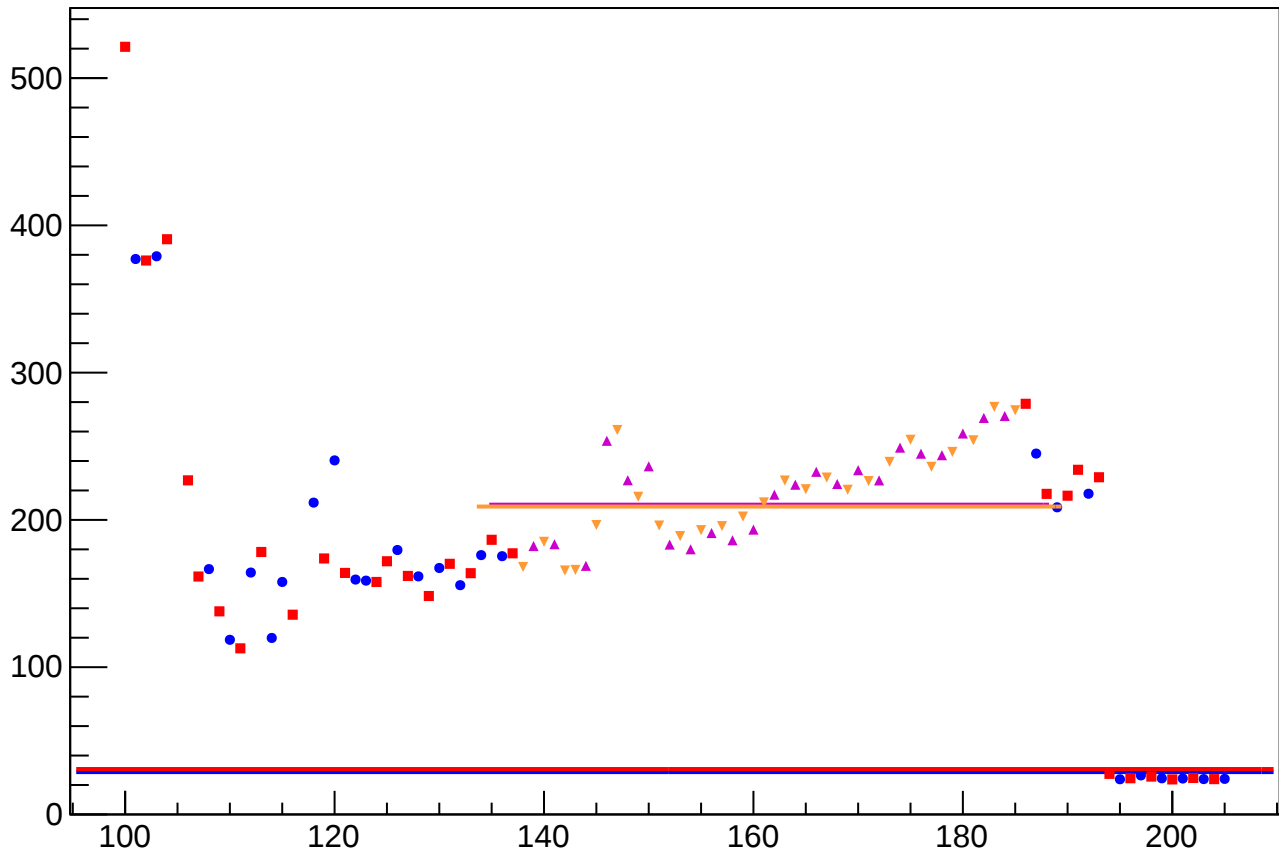
All: 196.112 $\pm$ 0.018 χ^2 /NDF: 6851674.5/103

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -9240.143 $\pm$ 0.011	χ^2 /NDF: 5847948486734.4/25	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/24
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: -8155.096 $\pm$ 0.008	χ^2 /NDF: 1293848786893.4/24
Right Out: -6862.703 $\pm$ 0.012	χ^2 /NDF: 7069628417588.3/29	In: -2075.808 $\pm$ 0.011	χ^2 /NDF: 15176462004803.7/29
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 2088.117 $\pm$ 0.012	χ^2 /NDF: 16716954116666.6/22
		All: -162.446 $\pm$ 0.008	χ^2 /NDF: 31961014253.3/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.769+/-0.008 χ^2/NDF : 11489216.9/25

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 30.850+/-0.009 χ^2/NDF : 13312266.2/29

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

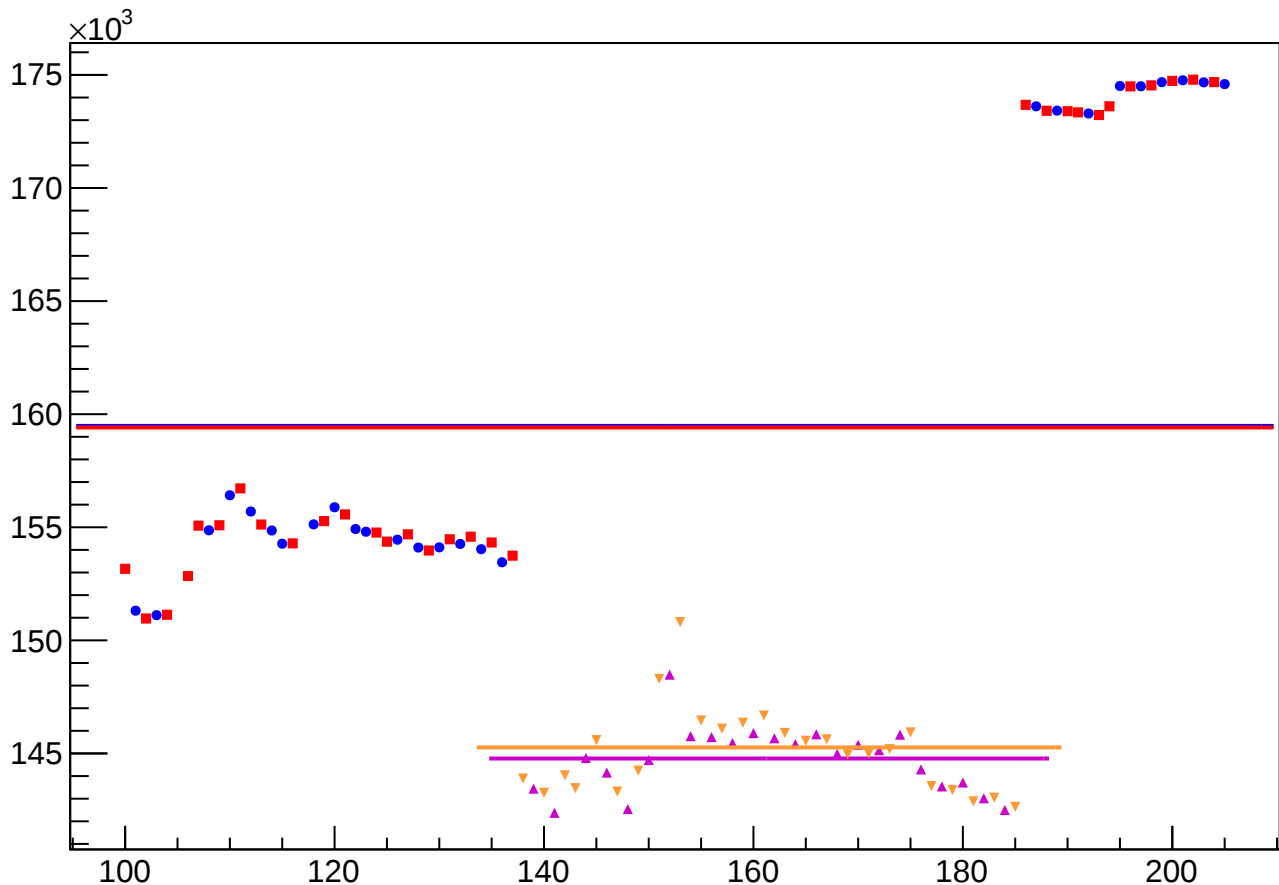
Right: 29.719+/-0.006 χ^2/NDF : 24833530.9/55

In: 36.869+/-0.008 χ^2/NDF : 36011175.3/48

Out: 40.925+/-0.008 χ^2/NDF : 38460246.7/54

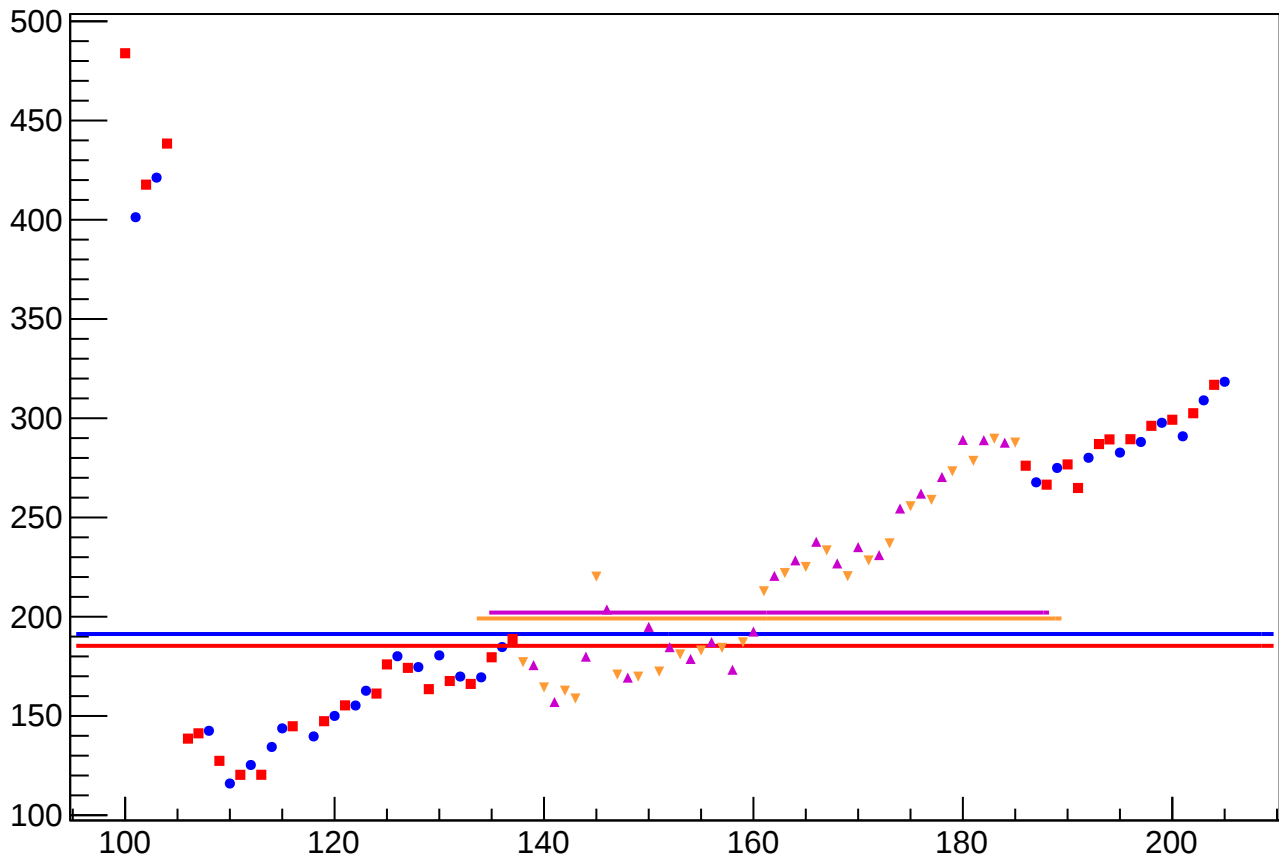
All: 38.733+/-0.006 χ^2/NDF : 74599689.8/103

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 159481.461+/-0.057	χ^2/NDF : 21649683847.3/25	Left: 145032.324+/-0.034	χ^2/NDF : 2687033506.0/24
Left Out: 145266.717+/-0.047	χ^2/NDF : 1717707352.7/24	Right: 159444.438+/-0.039	χ^2/NDF : 45723373993.0/24
Right Out: 159412.335+/-0.053	χ^2/NDF : 24072903705.5/29	In: 151101.225+/-0.037	χ^2/NDF : 60437730365.4/29
Left In: 144776.016+/-0.050	χ^2/NDF : 918120275.4/22	Out: 151536.257+/-0.035	χ^2/NDF : 65274189721.7/22
		All: 151330.976+/-0.026	χ^2/NDF : 125783327.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 191.287+/-0.040 χ^2/NDF : 3121621.9/25

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 185.336+/-0.038 χ^2/NDF : 3568558.6/29

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

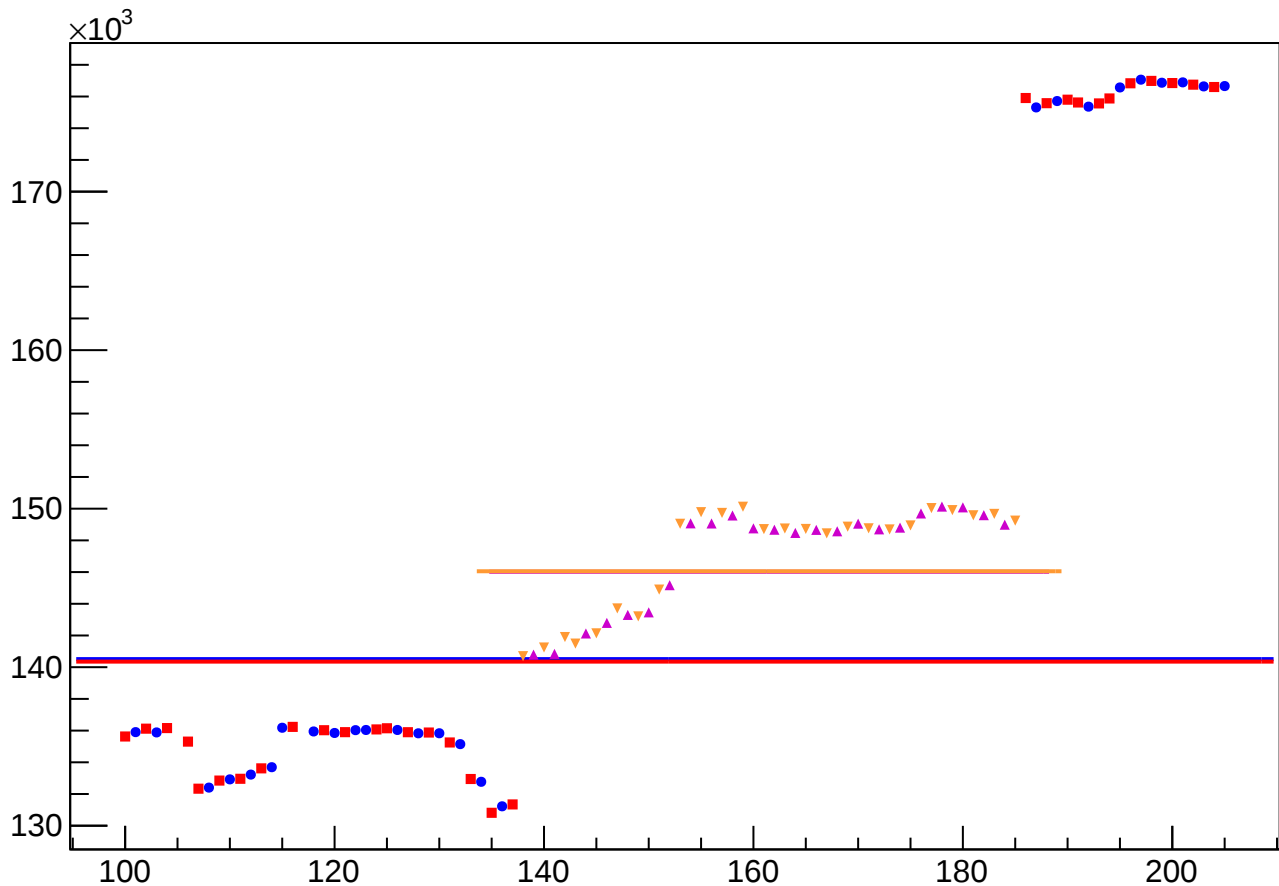
Right: 188.100+/-0.027 χ^2/NDF : 6701839.8/55

In: 197.444+/-0.026 χ^2/NDF : 4220329.8/48

Out: 193.010+/-0.025 χ^2/NDF : 4795752.3/54

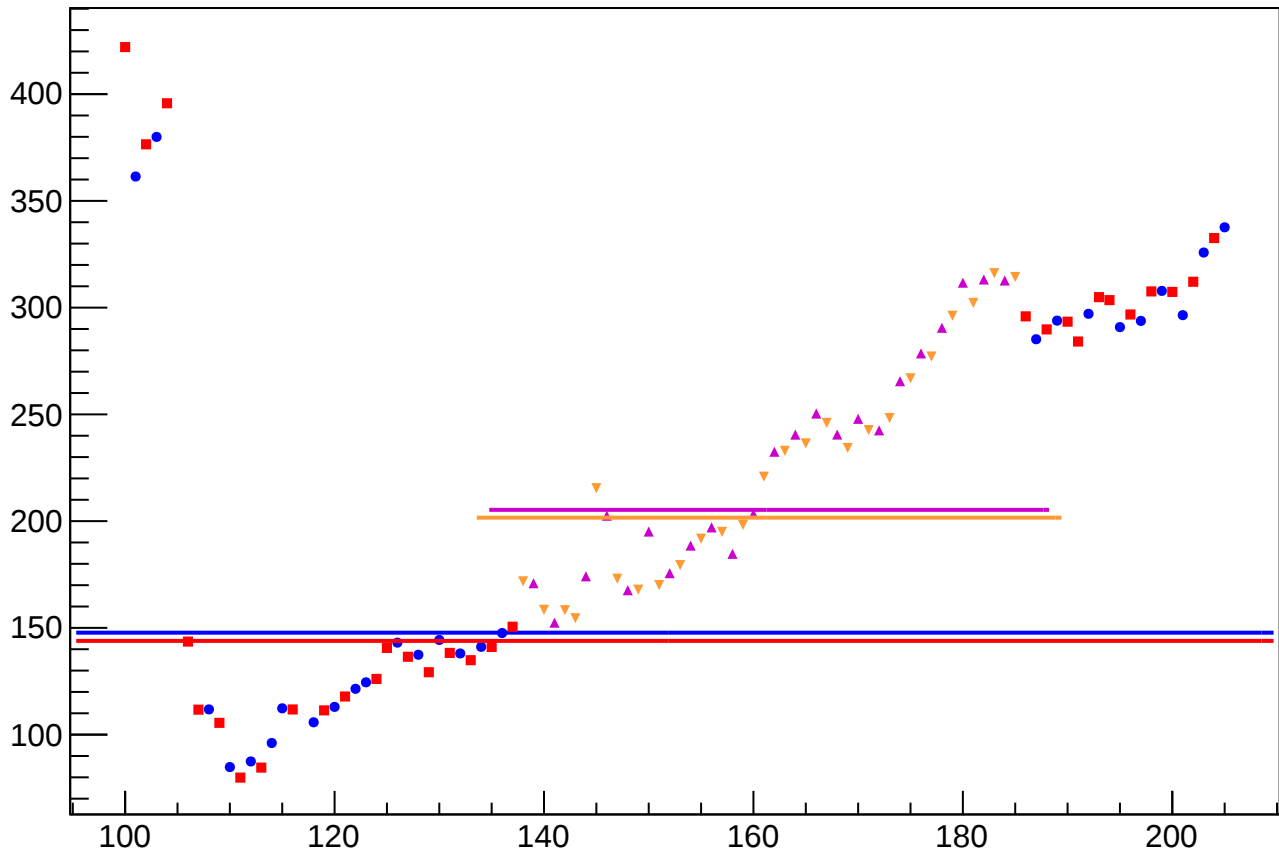
All: 195.102+/-0.018 χ^2/NDF : 9030918.5/103

yield_bpm1i04WS_mean vs Slug, Sign Corrected

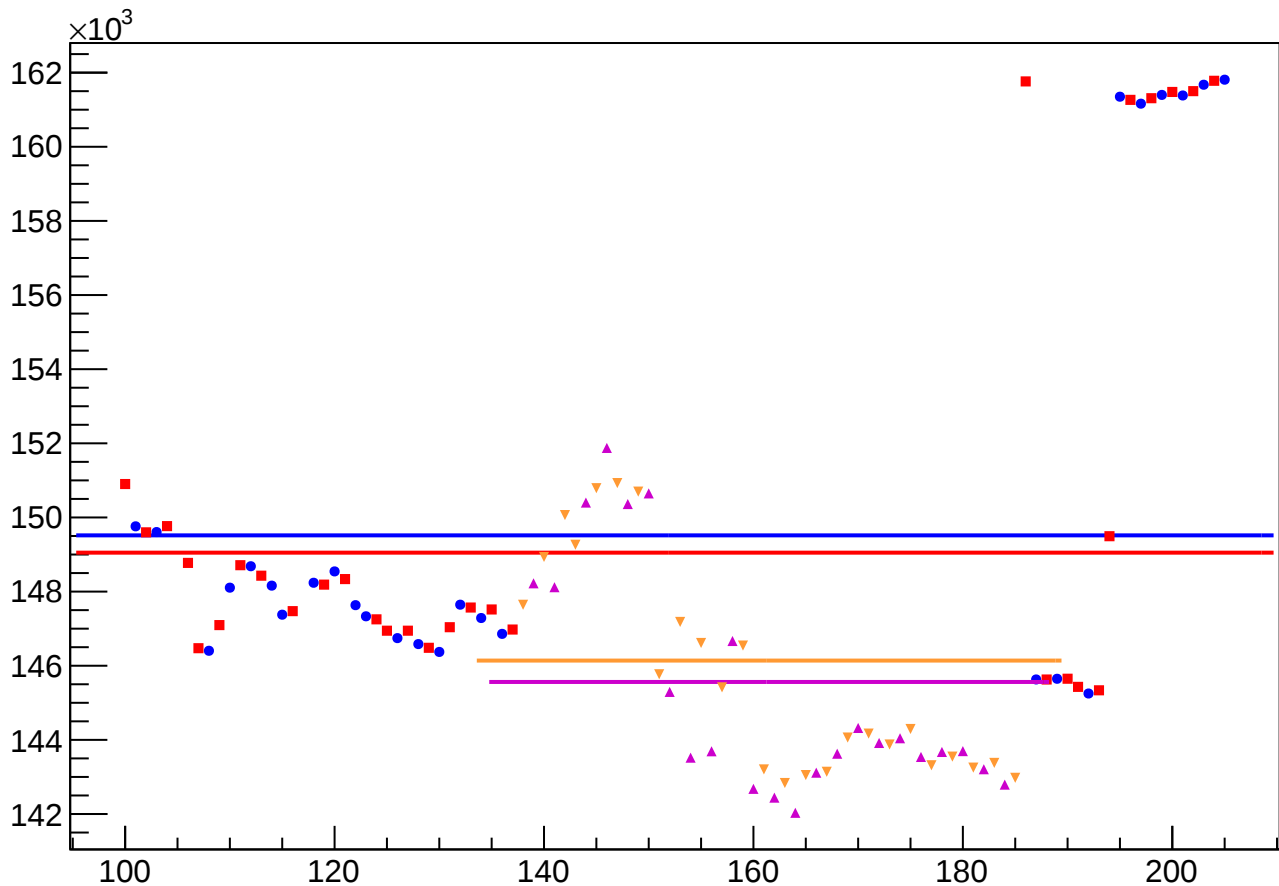


Right In: 140509.995 $\pm$ 0.047	χ^2 /NDF: 104266660733.7/25	Left: 146036.626 $\pm$ 0.035	χ^2 /NDF: 9994930852.8/25
Left Out: 146051.733 $\pm$ 0.048	χ^2 /NDF: 5403300123.1/24	Right: 140426.060 $\pm$ 0.032	χ^2 /NDF: 221408076285.0/24
Right Out: 140351.766 $\pm$ 0.044	χ^2 /NDF: 117135282490.6/29	In: 143031.961 $\pm$ 0.034	χ^2 /NDF: 115275158147.0/29
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 142922.417 $\pm$ 0.032	χ^2 /NDF: 130183128934.0/22
		All: 142974.188 $\pm$ 0.024	χ^2 /NDF: 245463676.0/22

yield_bpm1i04WS_rms vs Slug, Sign Corrected

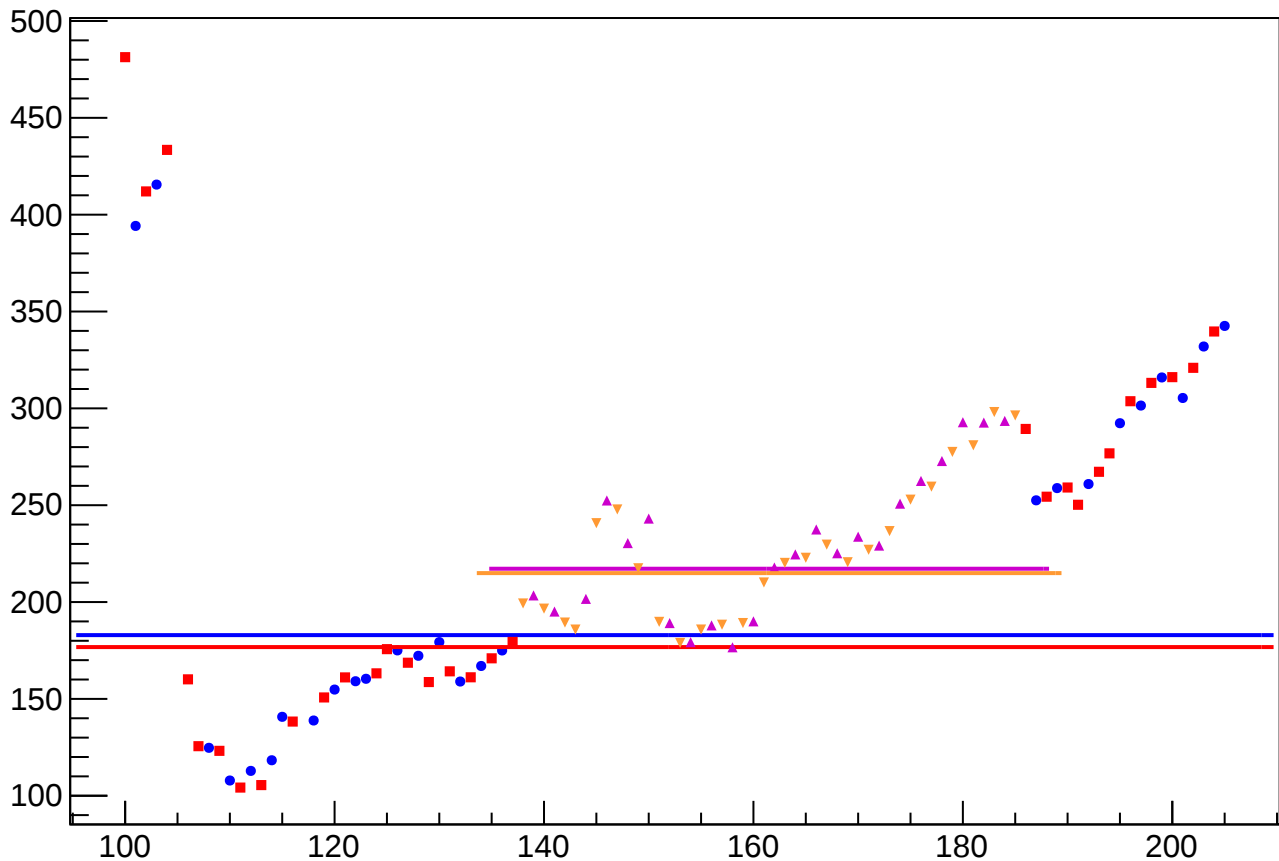


yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149517.055 $\pm$ 0.055 χ^2 /NDF: 8404344409.0/25
 Left Out: 146139.326 $\pm$ 0.051 χ^2 /NDF: 2699546907.6/24
 Right Out: 149050.541 $\pm$ 0.051 χ^2 /NDF: 7414794348.0/29
 Left In: 145562.386 $\pm$ 0.053 χ^2 /NDF: 3054641996.0/22
 Left: 145862.850 $\pm$ 0.037 χ^2 /NDF: 5815743509.5/4
 Right: 149266.701 $\pm$ 0.038 χ^2 /NDF: 15857279344.1
 In: 147456.975 $\pm$ 0.038 χ^2 /NDF: 14119479231.0/4
 Out: 147580.314 $\pm$ 0.036 χ^2 /NDF: 11733186949.1
 All: 147522.162 $\pm$ 0.026 χ^2 /NDF: 25858146

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 182.927 $\pm$ 0.039 χ^2 /NDF: 3709879.1/25

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 176.754 $\pm$ 0.036 χ^2 /NDF: 4181107.5/29

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2 /NDF: 1495200.1/47

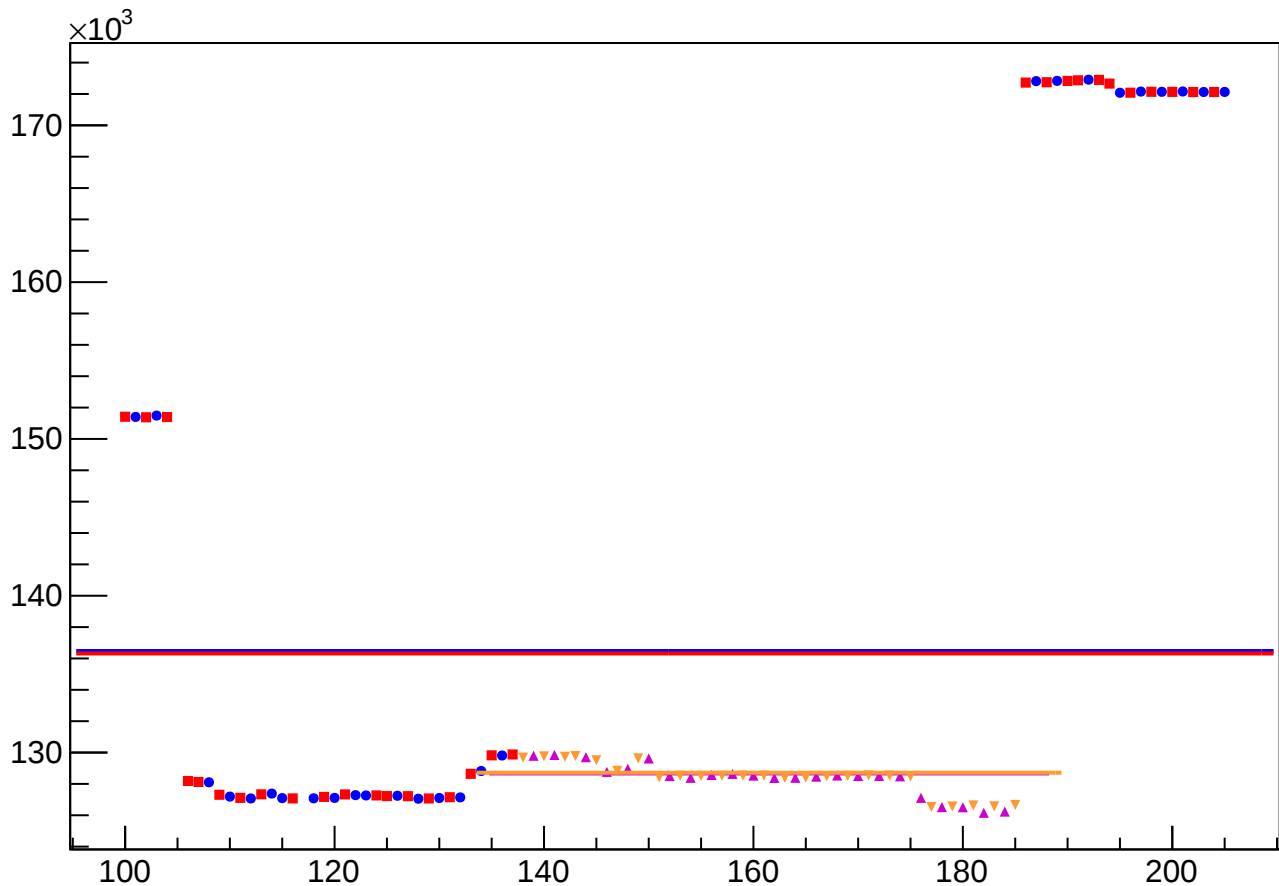
Right: 179.615 $\pm$ 0.027 χ^2 /NDF: 7904342.3/55

In: 200.783 $\pm$ 0.027 χ^2 /NDF: 4874394.2/48

Out: 196.042 $\pm$ 0.026 χ^2 /NDF: 5466807.2/54

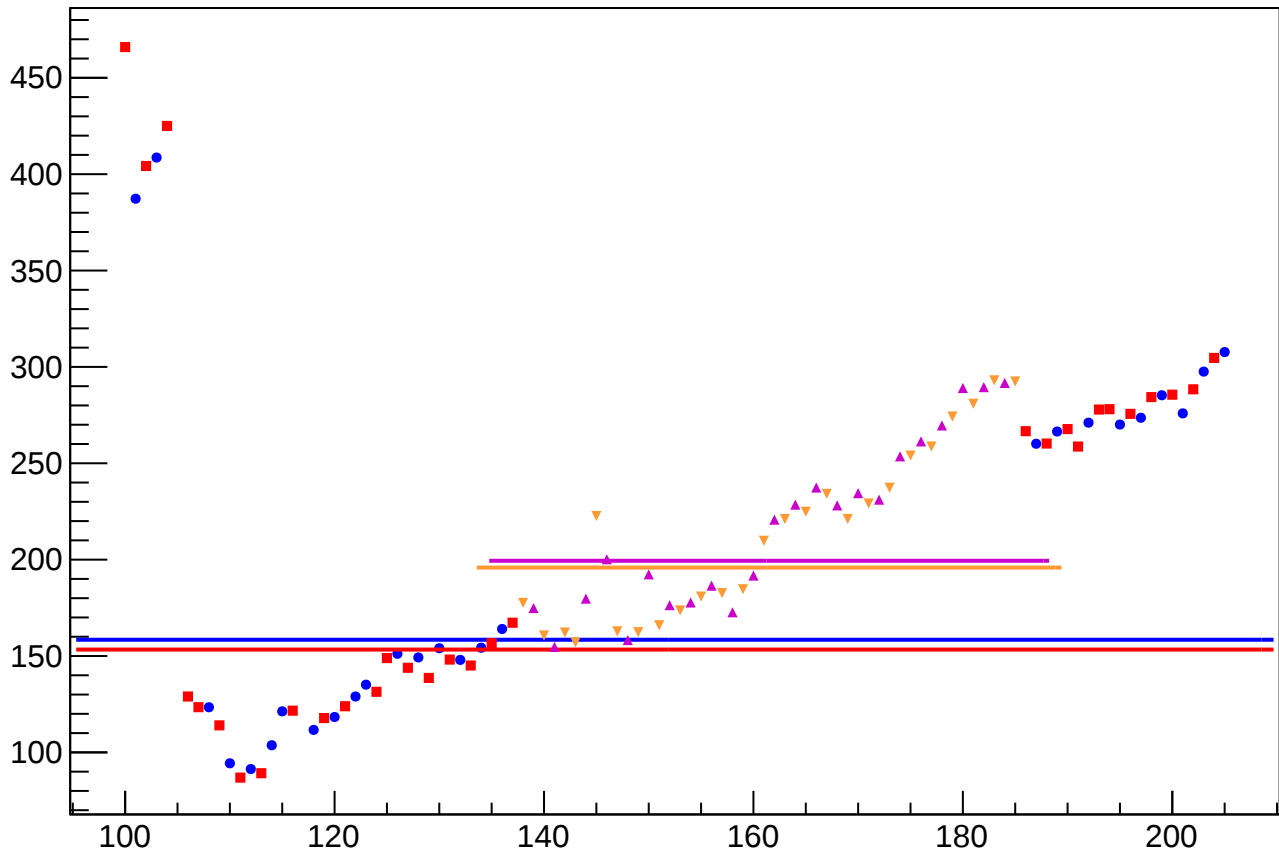
All: 198.277 $\pm$ 0.019 χ^2 /NDF: 10357397.0/100

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 136475.040+/-0.049 χ^2/NDF : 131967622031.0/25
 Left Out: 128714.507+/-0.047 χ^2/NDF : 348178101.1/24
 Right Out: 136316.855+/-0.045 χ^2/NDF : 150830292774.5/29
 Left In: 128667.013+/-0.049 χ^2/NDF : 333059477.6/22
 Left: 128691.898+/-0.034 χ^2/NDF : 681729975.4/47
 Right: 136390.305+/-0.033 χ^2/NDF : 282803551957
 In: 132589.409+/-0.035 χ^2/NDF : 145060189621.7
 Out: 132622.896+/-0.033 χ^2/NDF : 164803821466
 All: 132607.154+/-0.024 χ^2/NDF : 309864508

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 158.438 $\pm$ 0.034 χ^2 /NDF: 4440356.0/25

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 153.339 $\pm$ 0.032 χ^2 /NDF: 5037368.8/29

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

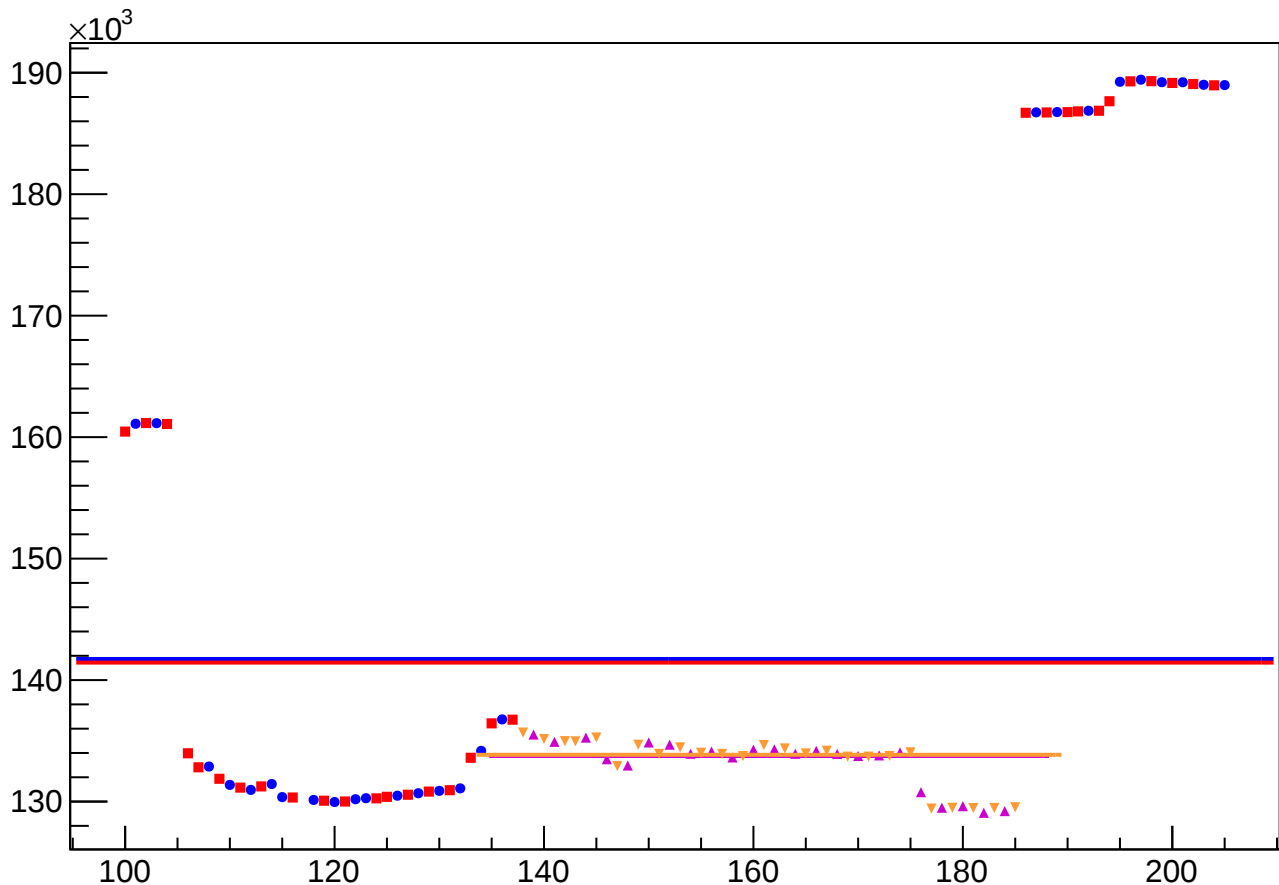
Right: 155.706 $\pm$ 0.023 χ^2 /NDF: 9489441.0/55

In: 178.829 $\pm$ 0.024 χ^2 /NDF:6308855.0/48

Out: 174.011 $\pm$ 0.023 χ^2 /NDF:7204148.7/54

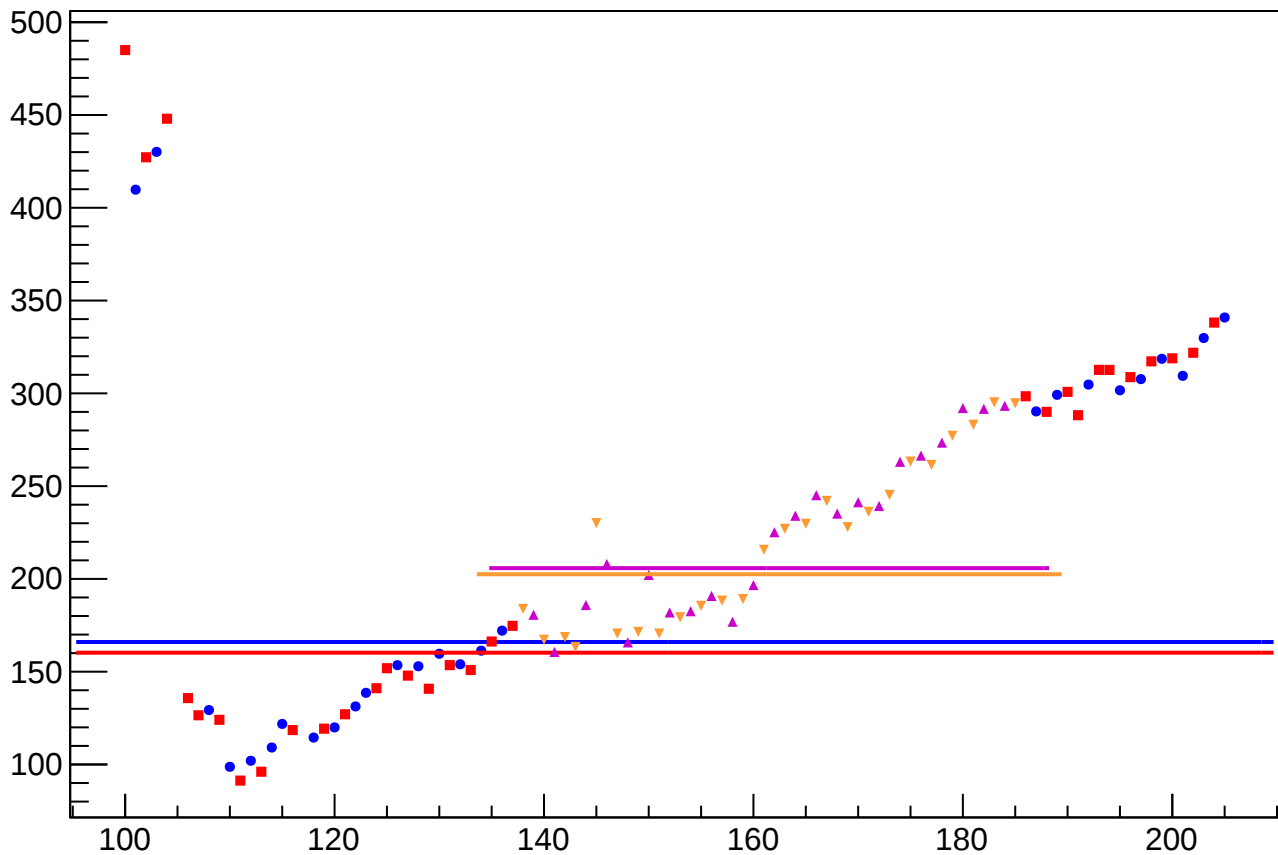
All: 176.276 $\pm$ 0.017 χ^2 /NDF: 13533605.1/100

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 141736.858 $\pm$ 0.052 χ^2 /NDF: 176810331955.0/25
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 141440.979 $\pm$ 0.048 χ^2 /NDF: 196759570430.0/29
 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: 141578.153 $\pm$ 0.035 χ^2 /NDF: 373587573242
 In: 137662.246 $\pm$ 0.036 χ^2 /NDF: 190011547292.3
 Out: 137669.127 $\pm$ 0.034 χ^2 /NDF: 210304664335.
 All: 137665.891 $\pm$ 0.025 χ^2 /NDF: 400316230

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 165.998 $\pm$ 0.036 χ^2 /NDF: 4813528.2/25

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF: 1211991.5/24

Right Out: 160.238 $\pm$ 0.034 χ^2 /NDF: 5494480.0/29

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF: 1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

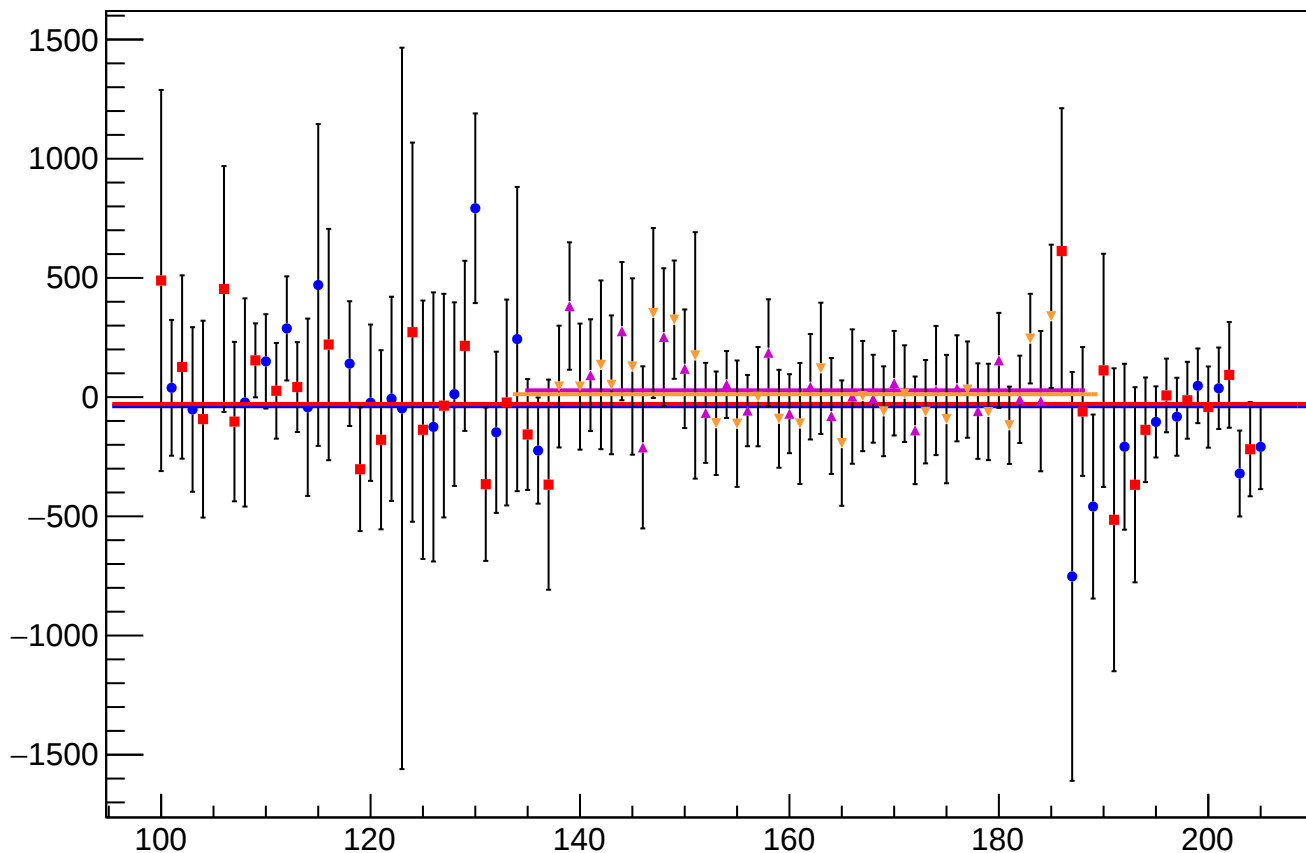
Right: 162.909 $\pm$ 0.025 χ^2 /NDF: 10321403.9/55

In: 186.307 $\pm$ 0.026 χ^2 /NDF: 6516338.8/48

Out: 181.253 $\pm$ 0.024 χ^2 /NDF: 7480317.4/54

All: 183.629 $\pm$ 0.017 χ^2 /NDF: 14017448.7/10

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -38.109 ± 50.280 $\chi^2/\text{NDF}: 15.9/25$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -28.858 ± 49.129 $\chi^2/\text{NDF}: 11.4/29$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

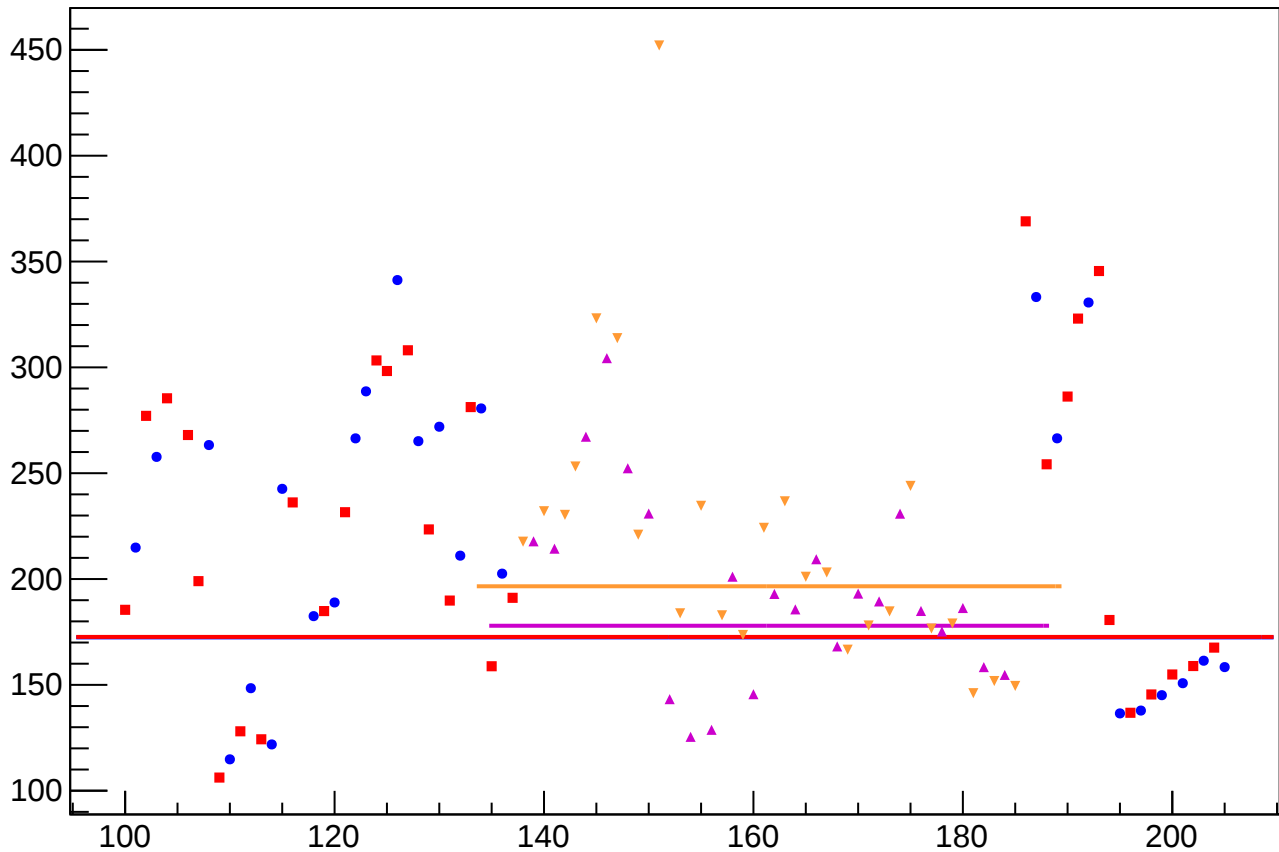
Right: -33.376 ± 35.139 $\chi^2/\text{NDF}: 27.3/55$

In: -0.923 ± 33.402 $\chi^2/\text{NDF}: 23.6/48$

Out: -7.661 ± 34.160 $\chi^2/\text{NDF}: 20.3/54$

All: -4.216 ± 23.882 $\chi^2/\text{NDF}: 43.9/103$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.427 ± 0.036 χ^2/NDF : 2082935.7/25

Left Out: 196.576 ± 0.034 χ^2/NDF : 1778719.0/24

Right Out: 172.657 ± 0.035 χ^2/NDF : 2746295.2/29

Left In: 177.933 ± 0.032 χ^2/NDF : 1605780.8/22

Left: 186.680 ± 0.023 χ^2/NDF : 3547823.4/47

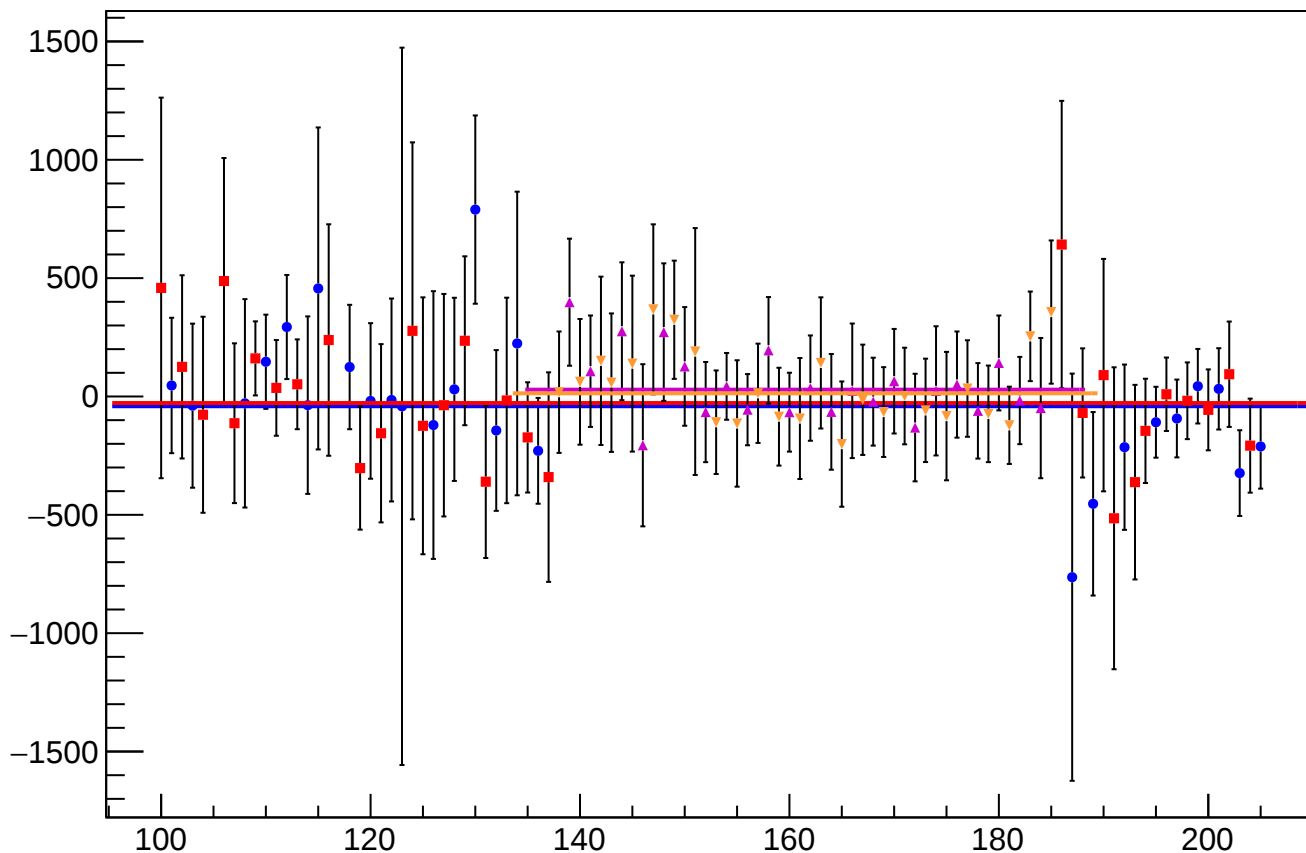
Right: 172.545 ± 0.025 χ^2/NDF : 4829252.4/55

In: 175.503 ± 0.024 χ^2/NDF : 3702116.3/48

Out: 185.012 ± 0.024 χ^2/NDF : 4769880.1/54

All: 180.151 ± 0.017 χ^2/NDF : 8551224.3/103

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -41.155 ± 50.526 χ^2/NDF : 15.8/25

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -27.718 ± 49.381 χ^2/NDF : 11.5/29

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

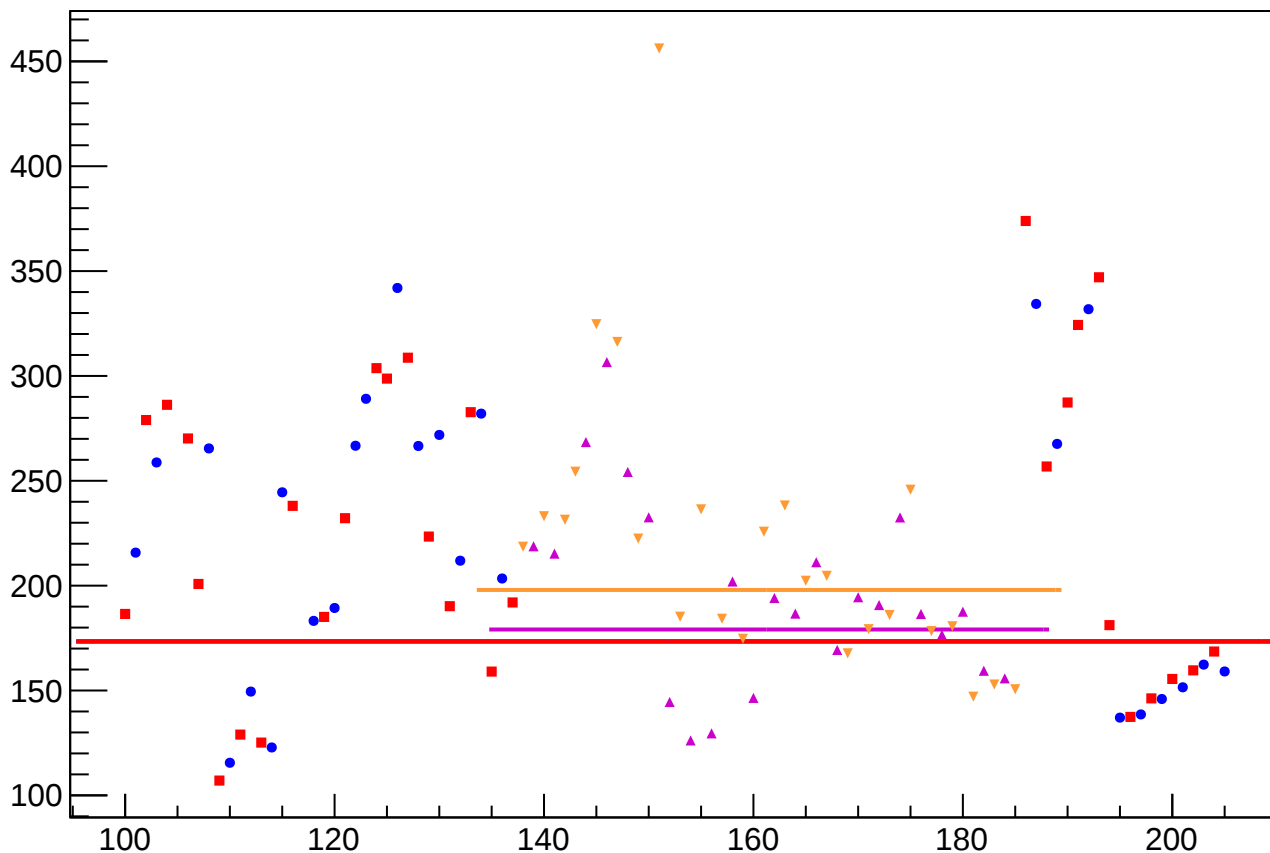
Right: -34.283 ± 35.316 χ^2/NDF : 27.4/55

In: -2.125 ± 33.596 χ^2/NDF : 23.7/48

Out: -6.520 ± 34.368 χ^2/NDF : 20.9/54

All: -4.273 ± 24.024 χ^2/NDF : 44.6/103

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 173.300 ± 0.036 χ^2/NDF : 2073665.4/25

Left Out: 197.953 ± 0.034 χ^2/NDF : 1774524.3/24

Right Out: 173.562 ± 0.035 χ^2/NDF : 2740921.1/29

Left In: 179.090 ± 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 ± 0.023 χ^2/NDF : 3544595.8/47

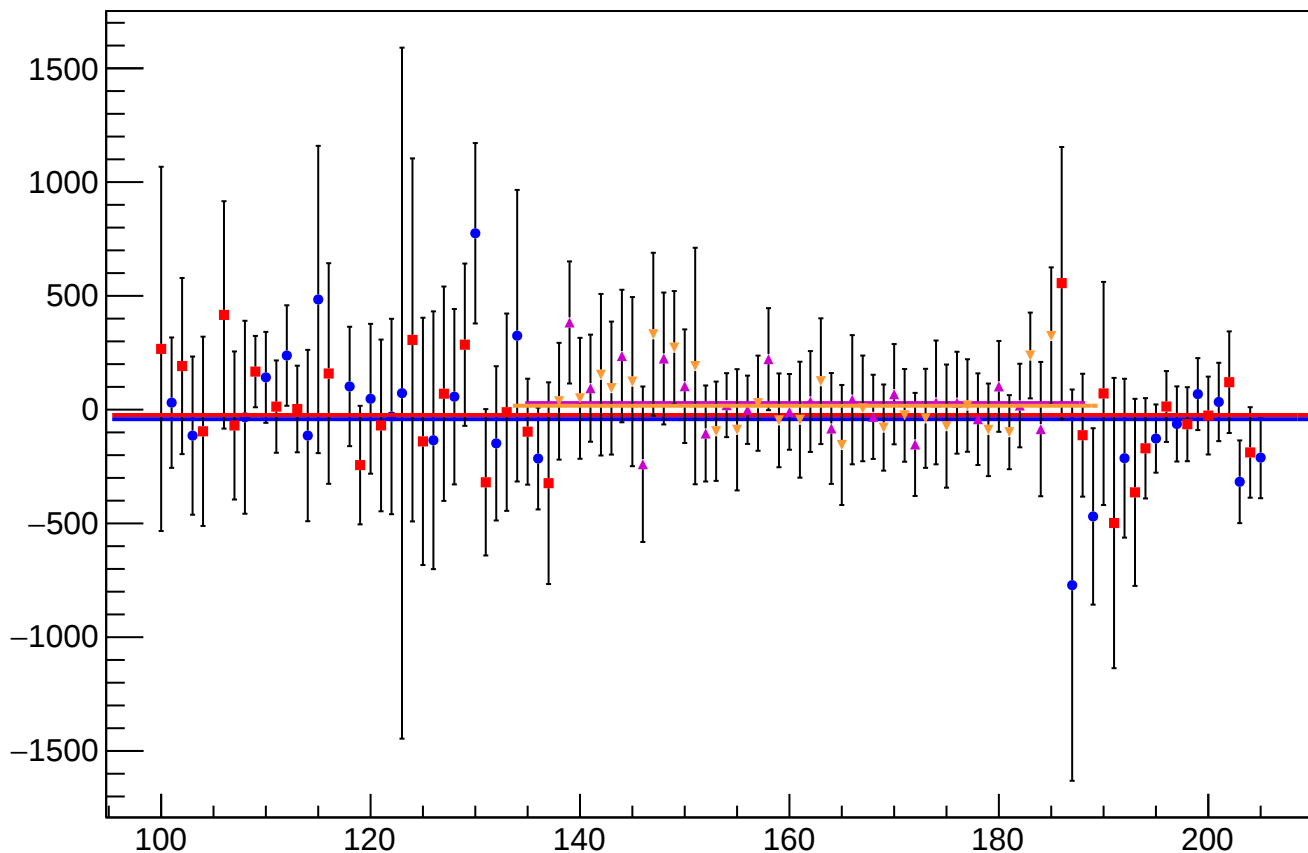
Right: 173.434 ± 0.025 χ^2/NDF : 4814614.0/55

In: 176.530 ± 0.024 χ^2/NDF : 3693428.3/48

Out: 186.138 ± 0.024 χ^2/NDF : 4767025.2/54

All: 181.225 ± 0.017 χ^2/NDF : 8540389.1/103

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -41.987 ± 50.601 χ^2/NDF : 15.3/25

Left Out: 17.142 ± 47.738 χ^2/NDF : 7.1/24

Right Out: -23.611 ± 49.378 χ^2/NDF : 10.1/29

Left In: 28.655 ± 44.859 χ^2/NDF : 6.1/22

Left: 23.256 ± 32.690 χ^2/NDF : 13.2/47

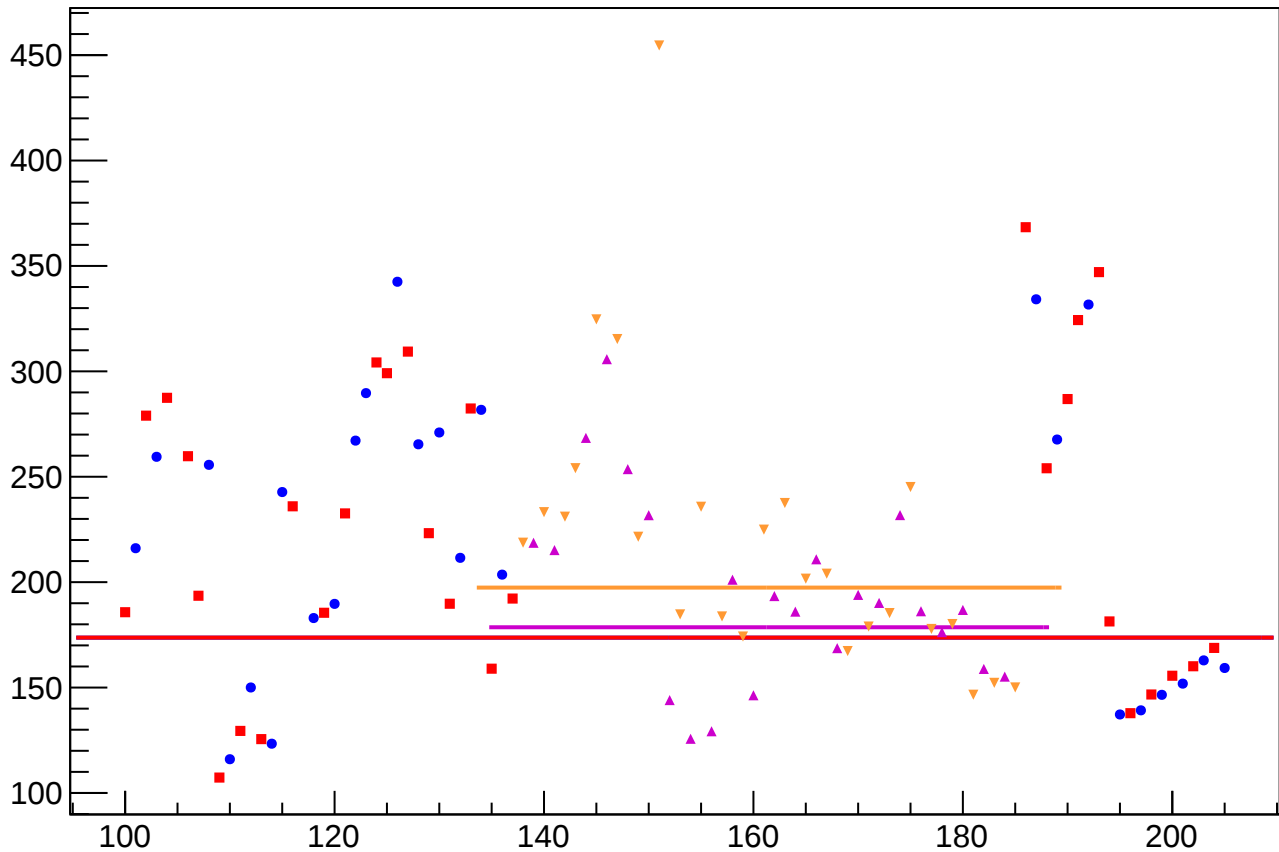
Right: -32.574 ± 35.340 χ^2/NDF : 25.5/55

In: -2.432 ± 33.568 χ^2/NDF : 22.6/48

Out: -2.546 ± 34.321 χ^2/NDF : 17.5/54

All: -2.488 ± 23.998 χ^2/NDF : 40.0/103

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.671 ± 0.036 χ^2/NDF : 2042811.4/25

Left Out: 197.422 ± 0.034 χ^2/NDF : 1780261.9/24

Right Out: 173.700 ± 0.035 χ^2/NDF : 2696718.5/29

Left In: 178.601 ± 0.032 χ^2/NDF : 1608998.1/22

Left: 187.427 ± 0.023 χ^2/NDF : 3554344.1/47

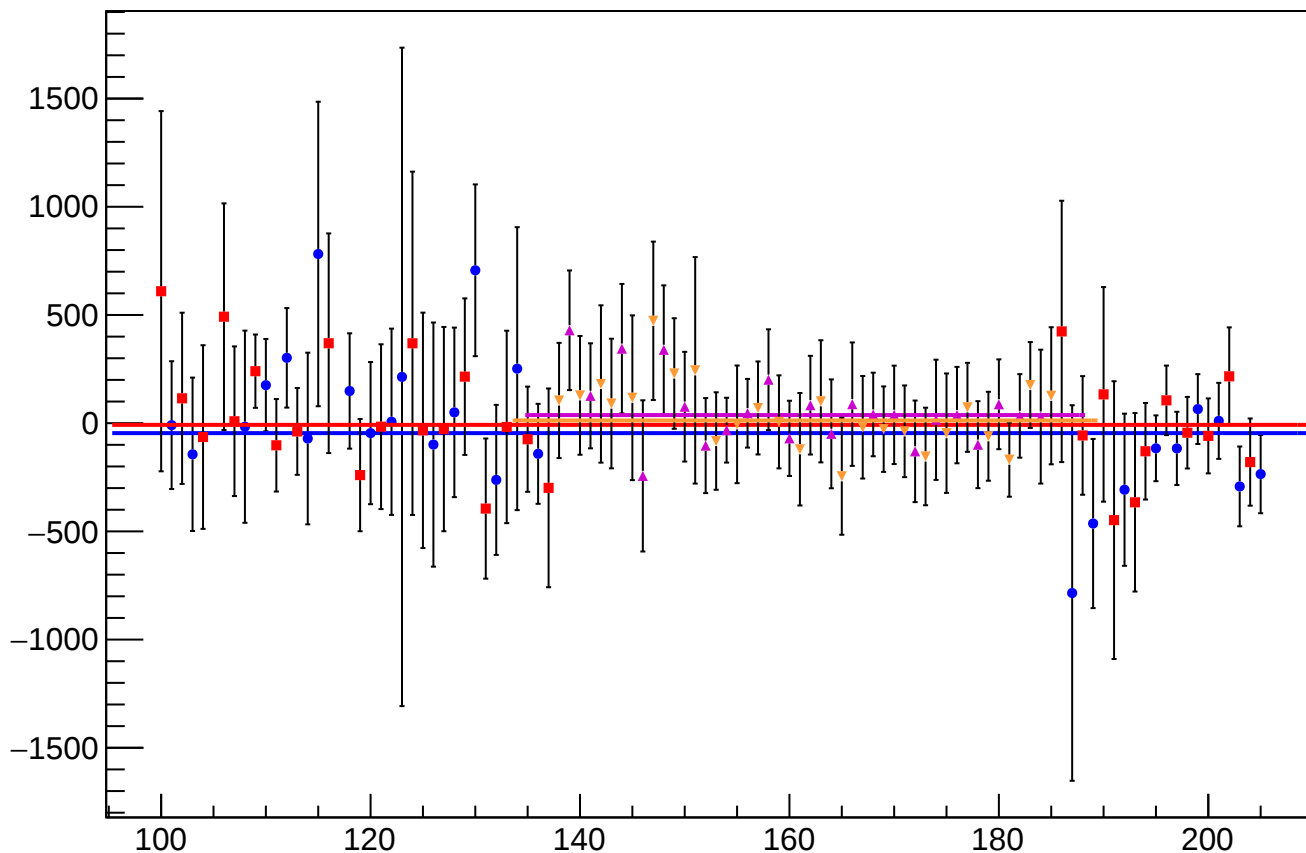
Right: 173.686 ± 0.025 χ^2/NDF : 4739530.3/55

In: 176.432 ± 0.024 χ^2/NDF : 3662440.1/48

Out: 185.962 ± 0.024 χ^2/NDF : 4715558.8/54

All: 181.091 ± 0.017 χ^2/NDF : 8456811.4/103

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -45.967 ± 51.755 χ^2/NDF : 16.1/25

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -7.777 ± 50.813 χ^2/NDF : 12.3/29

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

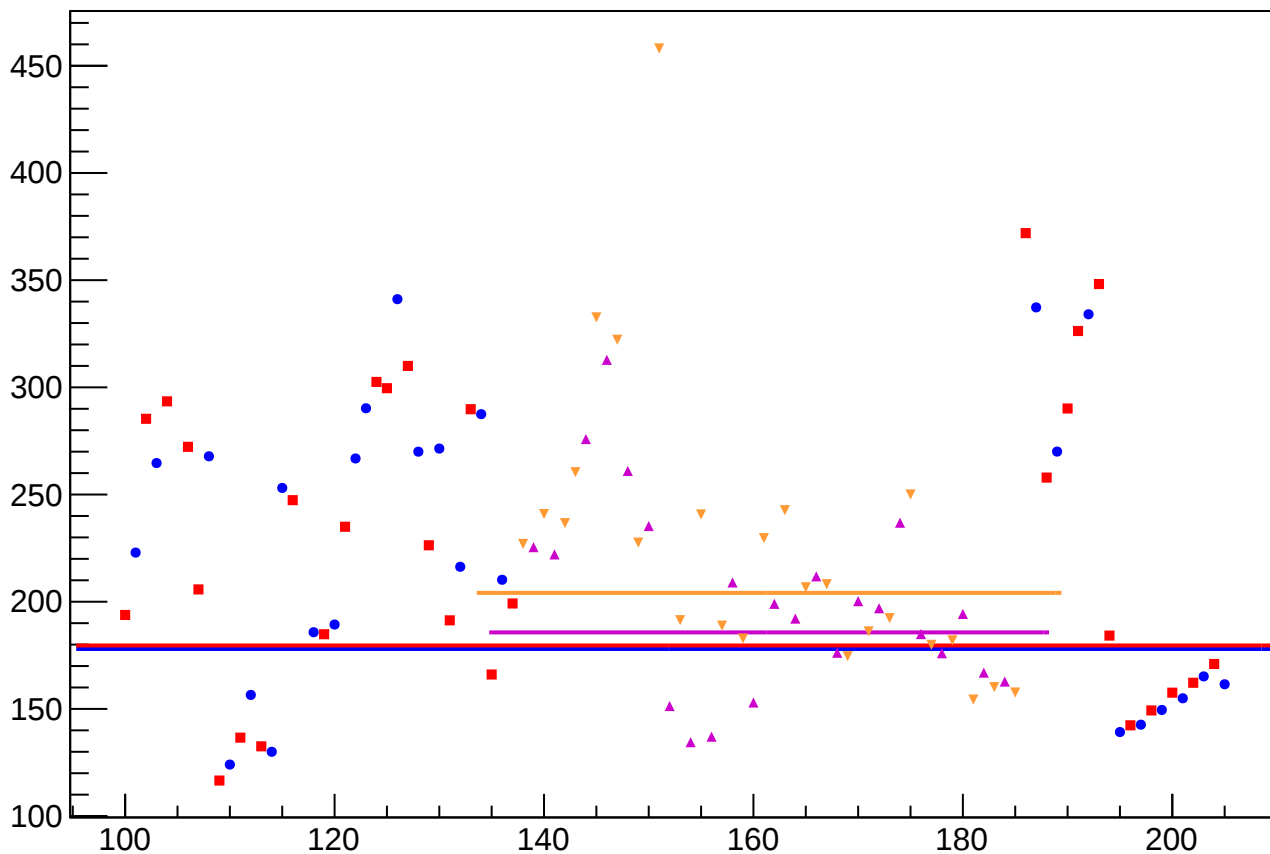
Right: -26.522 ± 36.258 χ^2/NDF : 28.7/55

In: 0.214 ± 34.581 χ^2/NDF : 25.2/48

Out: 2.748 ± 35.362 χ^2/NDF : 19.9/54

All: 1.453 ± 24.724 χ^2/NDF : 45.1/103

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.955+/-0.037 χ^2/NDF : 1966697.9/25

Left Out: 204.132+/-0.035 χ^2/NDF :1672287.6/24

Right Out: 179.597+/-0.036 χ^2/NDF : 2502906.9/29

Left In: 185.694+/-0.033 χ^2/NDF :1447767.0/22

Left: 194.381+/-0.024 χ^2/NDF : 3268347.9/47

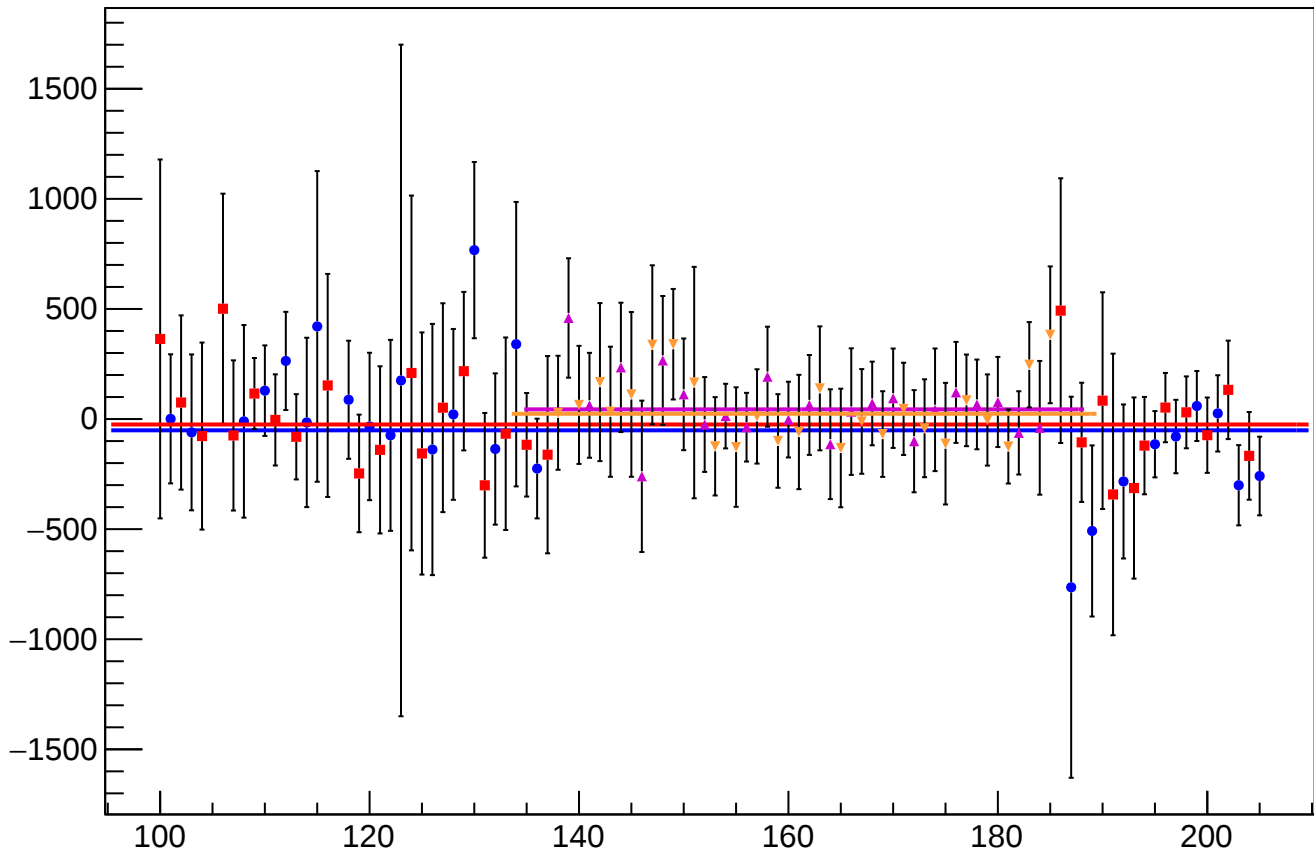
Right: 178.791+/-0.026 χ^2/NDF : 4470630.1/55

In: 182.239+/-0.024 χ^2/NDF :3439216.4/48

Out: 192.250+/-0.025 χ^2/NDF :4415646.3/54

All: 187.132+/-0.017 χ^2/NDF : 7936796.2/103

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -51.223 $\pm$ 51.106 χ^2 /NDF: 15.4/25

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -24.689 $\pm$ 49.988 χ^2 /NDF: 7.9/29

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

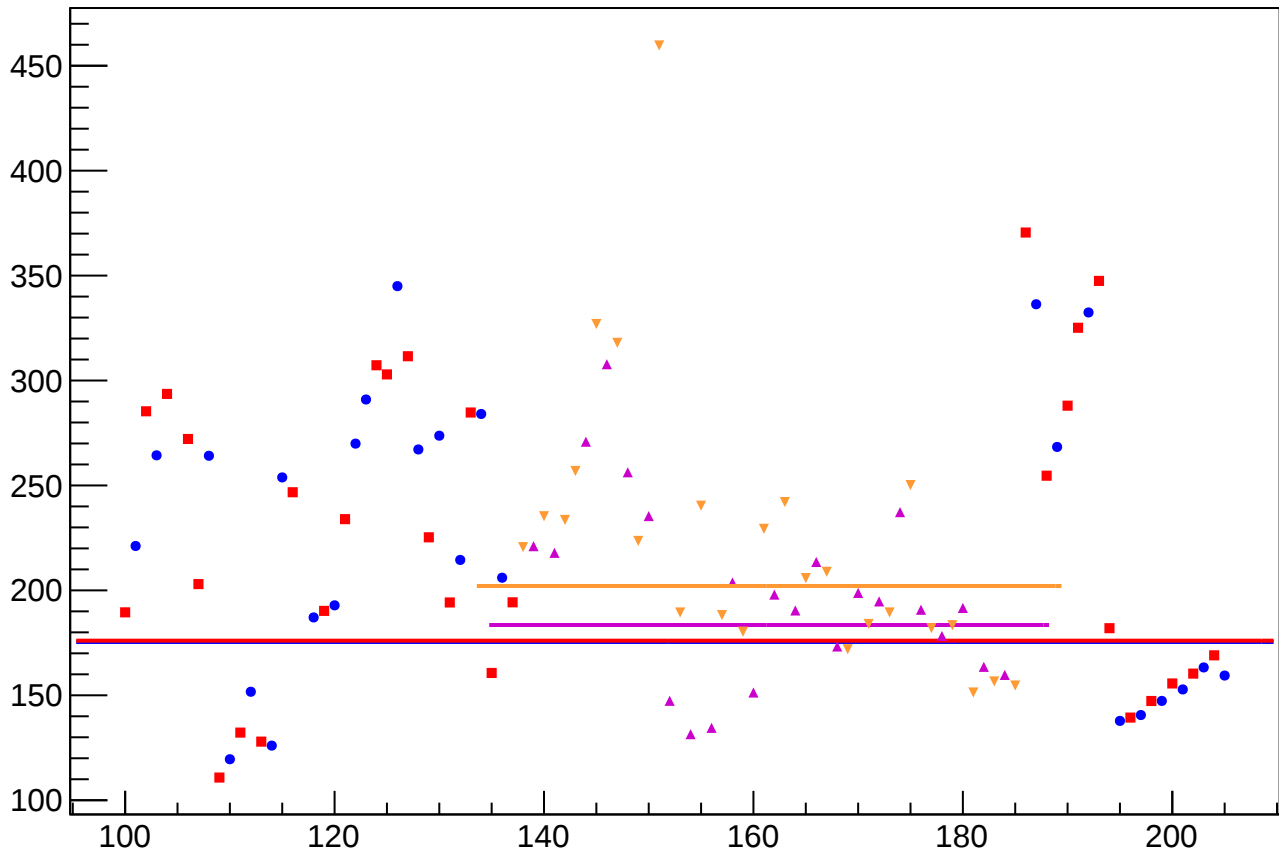
Right: -37.662 $\pm$ 35.736 χ^2 /NDF: 23.5/55

In: 1.389 $\pm$ 34.182 χ^2 /NDF:23.9/48

Out: 0.169 $\pm$ 34.913 χ^2 /NDF:16.9/54

All: 0.792 $\pm$ 24.425 χ^2 /NDF: 40.8/103

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 175.420 $\pm$ 0.036 χ^2 /NDF: 2049070.5/25

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 176.034 $\pm$ 0.035 χ^2 /NDF: 2669841.6/29

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

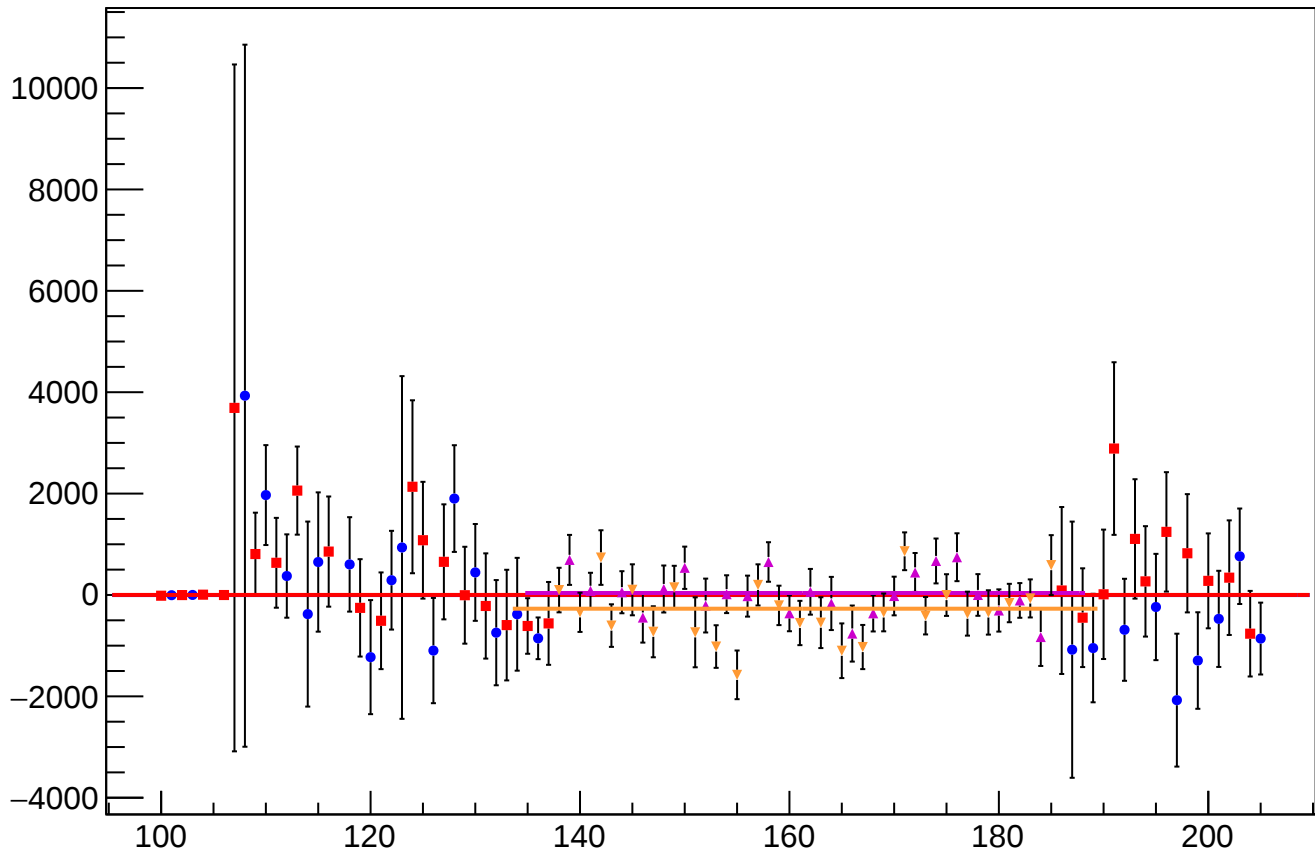
Right: 175.734 $\pm$ 0.025 χ^2 /NDF: 4719059.7/55

In: 179.884 $\pm$ 0.024 χ^2 /NDF:3560069.2/48

Out: 189.375 $\pm$ 0.025 χ^2 /NDF:4640748.5/54

All: 184.529 $\pm$ 0.017 χ^2 /NDF: 8276280.6/103

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.560 ± 2.251 χ^2/NDF : 25.8/25

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.737 ± 2.111 χ^2/NDF : 25.8/29

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

Right: -0.337 ± 1.540 χ^2/NDF : 52.1/55

In: -1.533 ± 2.251 χ^2/NDF : 46.3/48

Out: 0.577 ± 2.110 χ^2/NDF : 73.6/54

All: -0.410 ± 1.539 χ^2/NDF : 120.4/103

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.493+/-0.002 χ^2/NDF : 23202816.5/25

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.471+/-0.001 χ^2/NDF : 25080469.7/29

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

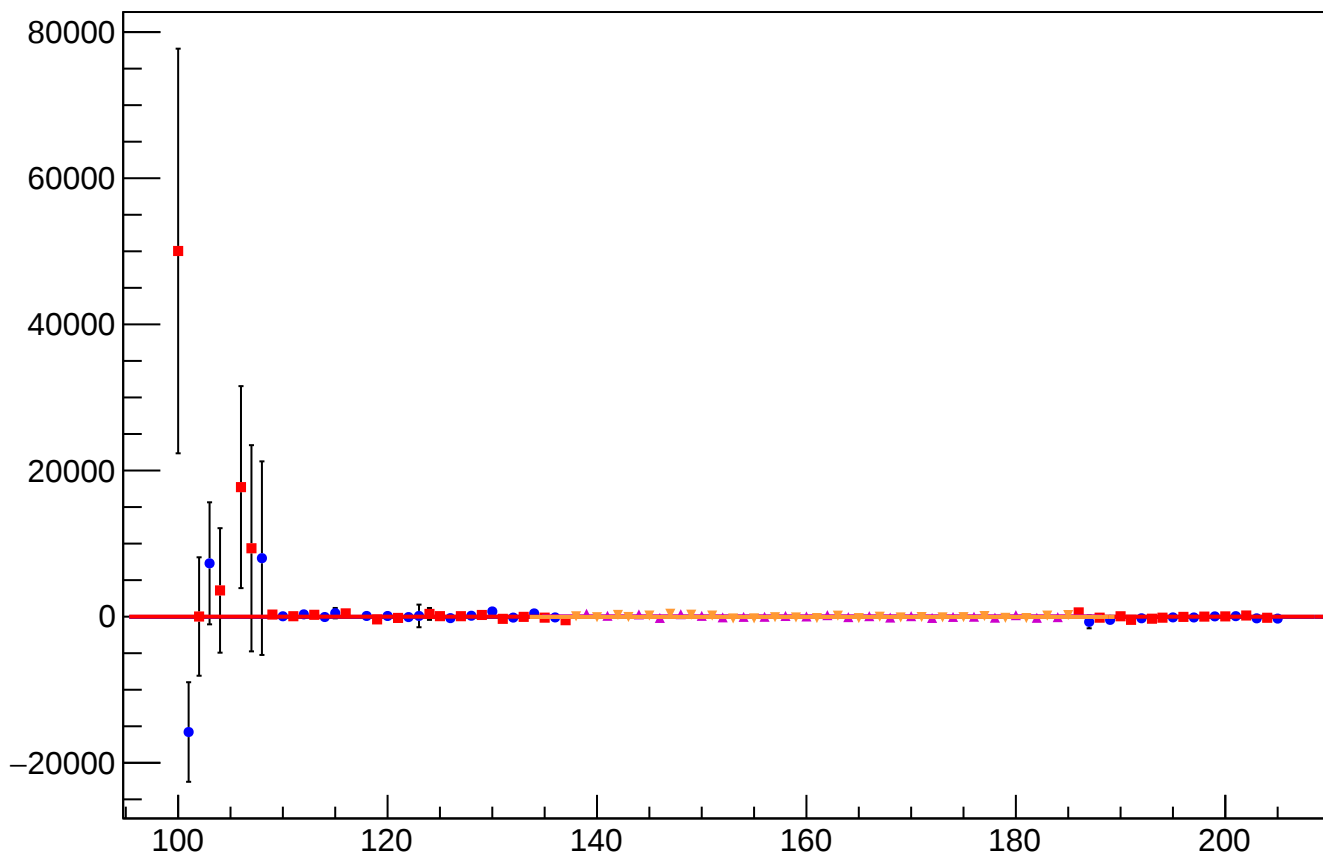
Right: 2.482+/-0.001 χ^2/NDF : 48283391.2/55

In: 2.729+/-0.002 χ^2/NDF : 56857165.7/48

Out: 2.687+/-0.001 χ^2/NDF : 61090322.2/54

All: 2.706+/-0.001 χ^2/NDF : 117947862.4/103

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -31.389 ± 56.132 χ^2/NDF : 19.3/25

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: 1.175 ± 55.998 χ^2/NDF : 17.6/29

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

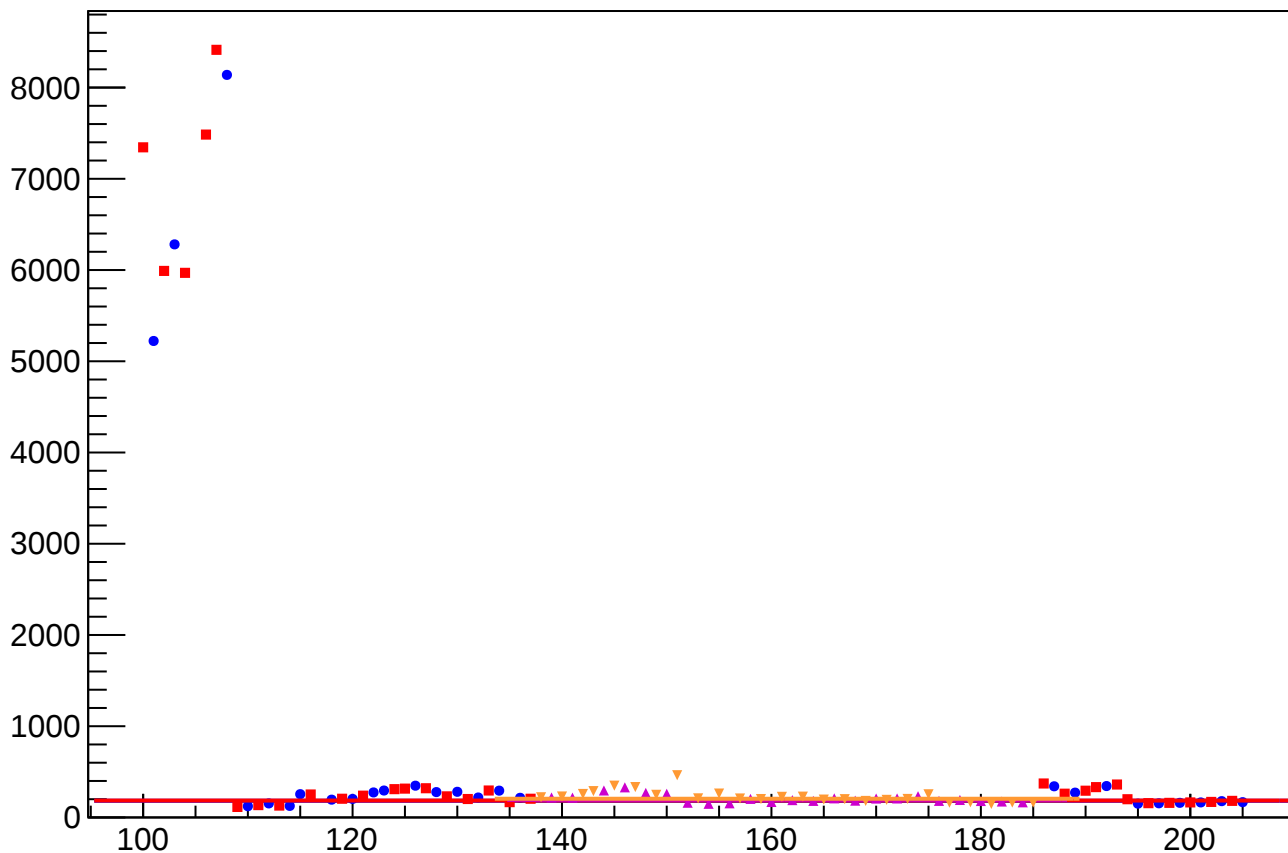
Right: -15.068 ± 39.644 χ^2/NDF : 37.1/55

In: 2.933 ± 36.554 χ^2/NDF : 29.2/48

Out: -20.774 ± 37.141 χ^2/NDF : 27.2/54

All: -8.732 ± 26.053 χ^2/NDF : 56.6/103

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.770 $\pm$ 0.040 χ^2 /NDF: 4496631.4/25

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 185.319 $\pm$ 0.040 χ^2 /NDF: 5330699.7/29

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

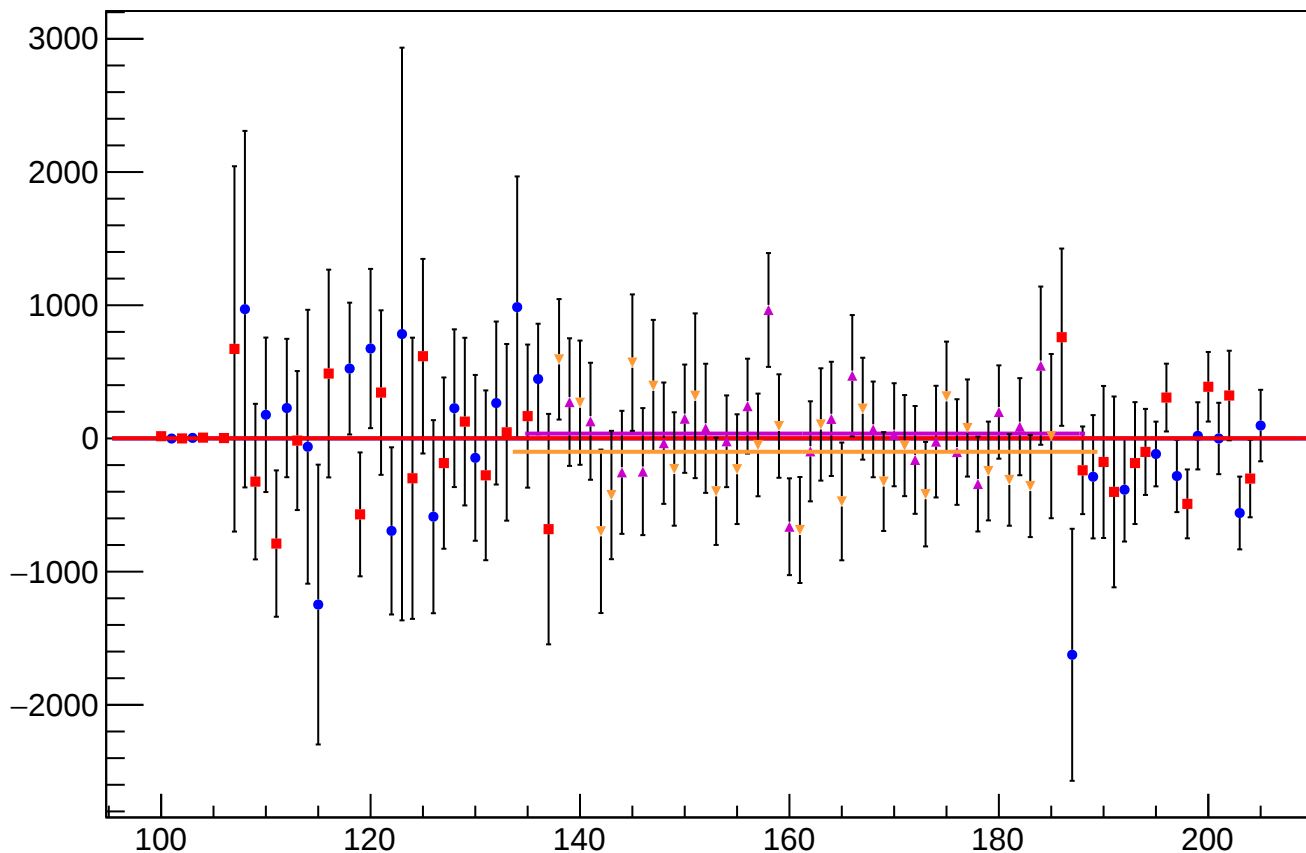
Right: 184.047 $\pm$ 0.028 χ^2 /NDF: 9829397.8/55

In: 188.895 $\pm$ 0.026 χ^2 /NDF:5710145.2/48

Out: 196.357 $\pm$ 0.026 χ^2 /NDF:7425491.7/54

All: 192.567 $\pm$ 0.018 χ^2 /NDF: 13176648.0/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.192 $\pm$ 1.736 χ^2/NDF : 20.0/25

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.319 $\pm$ 1.622 χ^2/NDF : 21.2/29

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

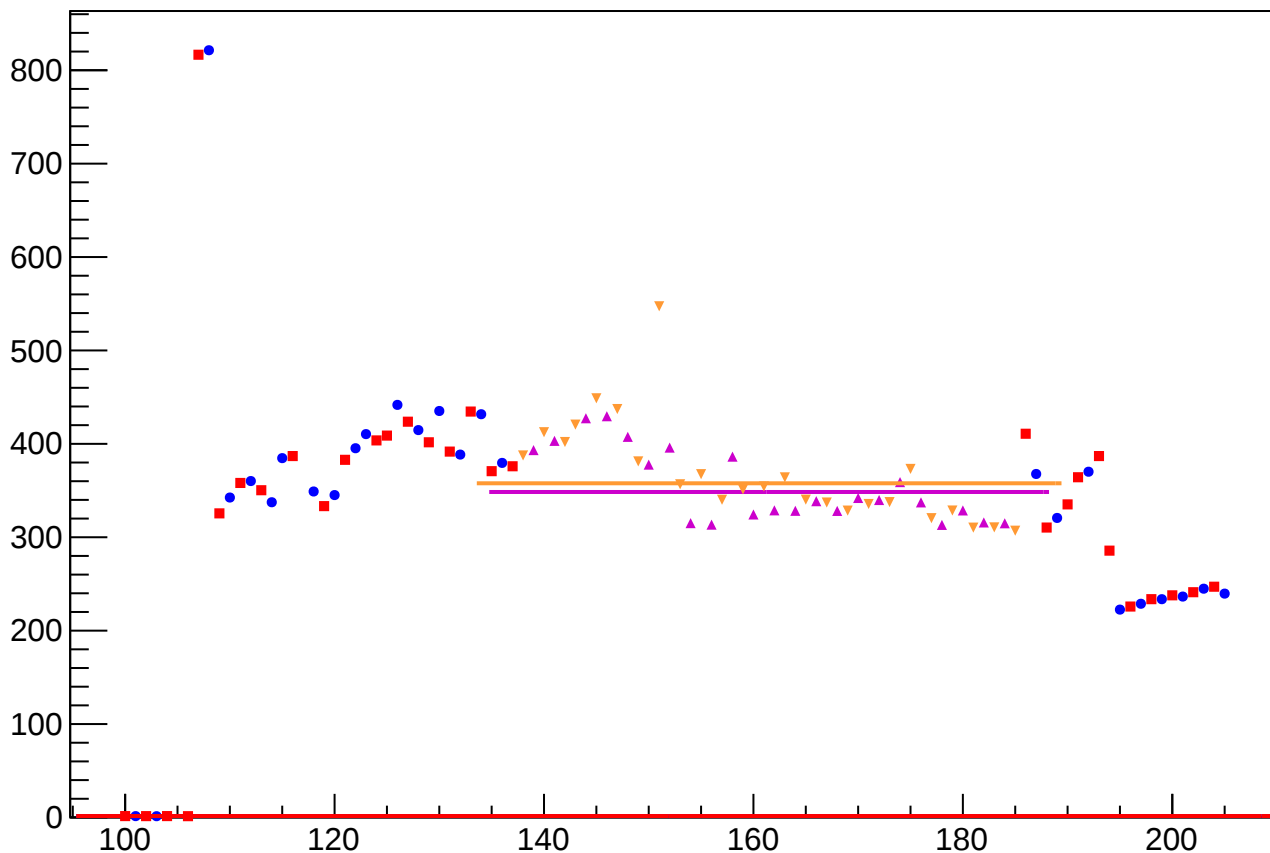
Right: 0.615 $\pm$ 1.185 χ^2/NDF : 41.5/55

In: -0.177 $\pm$ 1.736 χ^2/NDF :33.7/48

Out: 1.281 $\pm$ 1.622 χ^2/NDF :38.3/54

All: 0.602 $\pm$ 1.185 χ^2/NDF : 72.4/103

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.527+/-0.001 χ^2/NDF : 23421445.5/25

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.518+/-0.001 χ^2/NDF : 24767550.0/29

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

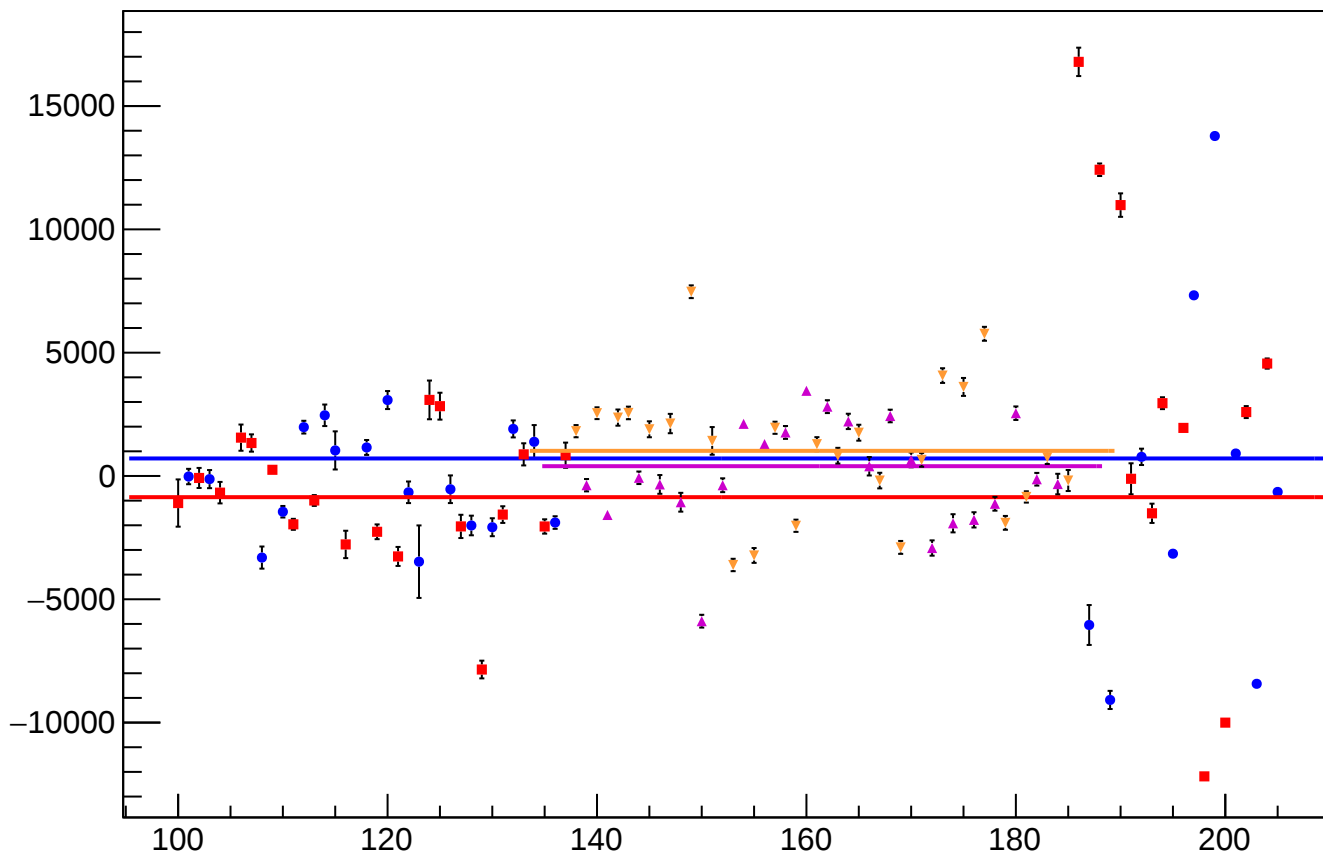
Right: 1.522+/-0.001 χ^2/NDF : 48189024.0/55

In: 1.673+/-0.001 χ^2/NDF : 57342917.2/48

Out: 1.650+/-0.001 χ^2/NDF : 61113396.1/54

All: 1.661+/-0.001 χ^2/NDF : 118456493.3/103

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 710.020 $\pm$ 55.767 χ^2 /NDF: 10661.9/25

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: -859.563 $\pm$ 54.178 χ^2 /NDF: 12631.9/29

Left In: 396.609 $\pm$ 55.090 χ^2 /NDF:1581.0/22

Left: 695.002 $\pm$ 39.747 χ^2 /NDF: 3952.3/47

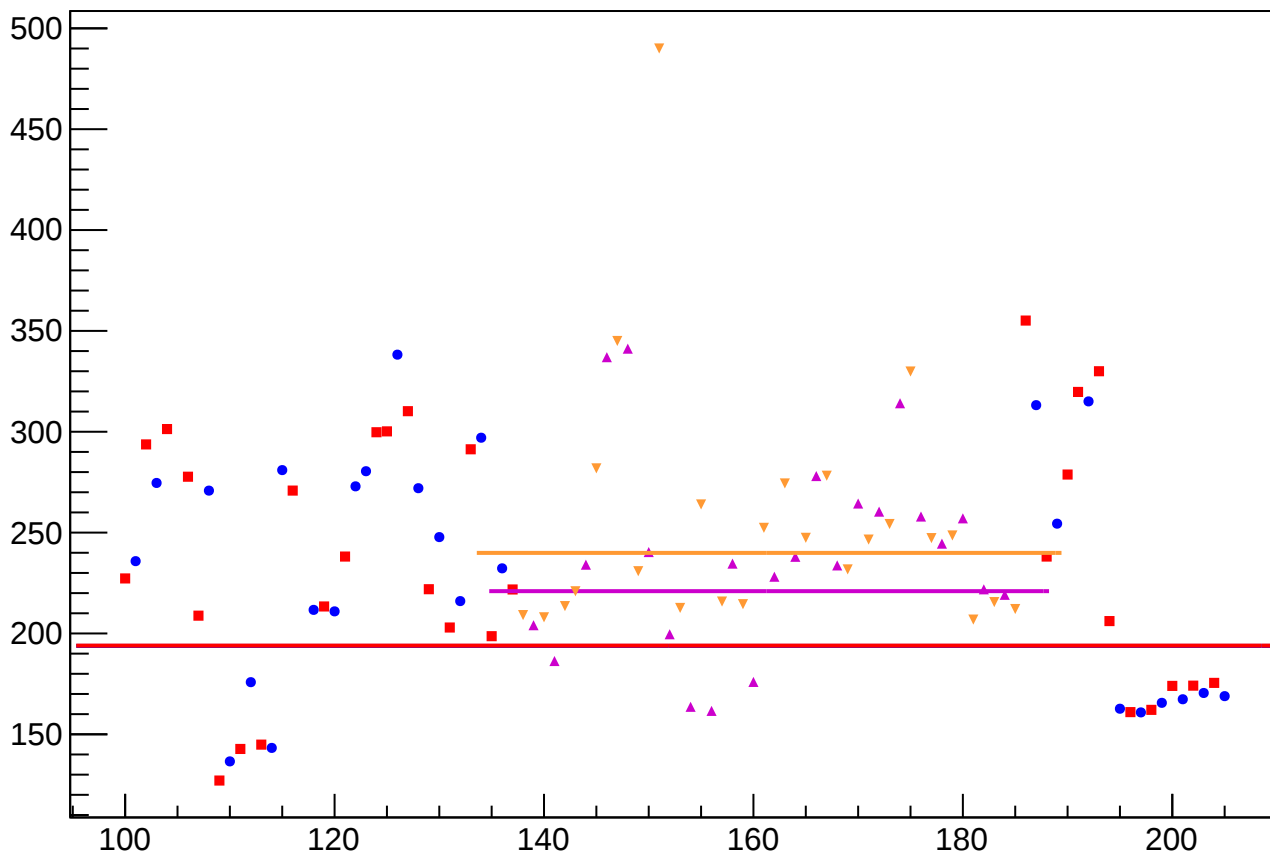
Right: -97.457 $\pm$ 38.859 χ^2 /NDF: 23701.4/55

In: 551.401 $\pm$ 39.192 χ^2 /NDF:12258.9/48

Out: 25.463 $\pm$ 39.400 χ^2 /NDF:15508.4/54

All: 289.825 $\pm$ 27.786 χ^2 /NDF: 27856.9/103

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 193.825 ± 0.039 $\chi^2/\text{NDF}: 1450042.9/25$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 193.969 ± 0.038 $\chi^2/\text{NDF}: 1978721.4/29$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

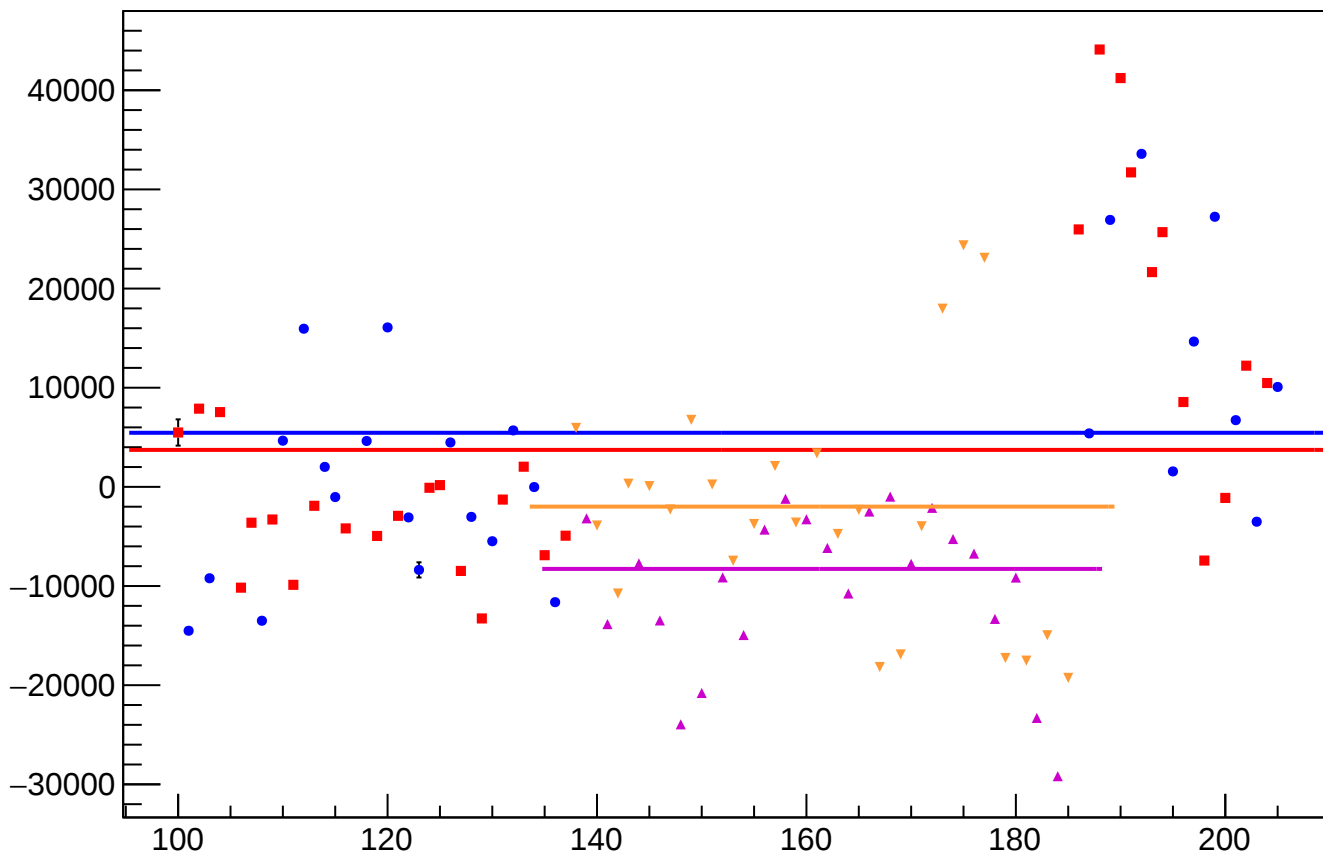
Right: 193.899 ± 0.027 $\chi^2/\text{NDF}: 3428771.1/55$

In: 207.564 ± 0.028 $\chi^2/\text{NDF}: 3017571.2/48$

Out: 215.628 ± 0.028 $\chi^2/\text{NDF}: 3657944.9/54$

All: 211.575 ± 0.020 $\chi^2/\text{NDF}: 6717628.7/103$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5454.827 $\pm$ 43.477 χ^2 /NDF: 86952.7/25

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 3728.782 $\pm$ 41.326 χ^2 /NDF: 132938.1/29

Left In: -8273.228 $\pm$ 44.301 χ^2 /NDF:22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2 /NDF: 97123.2/47

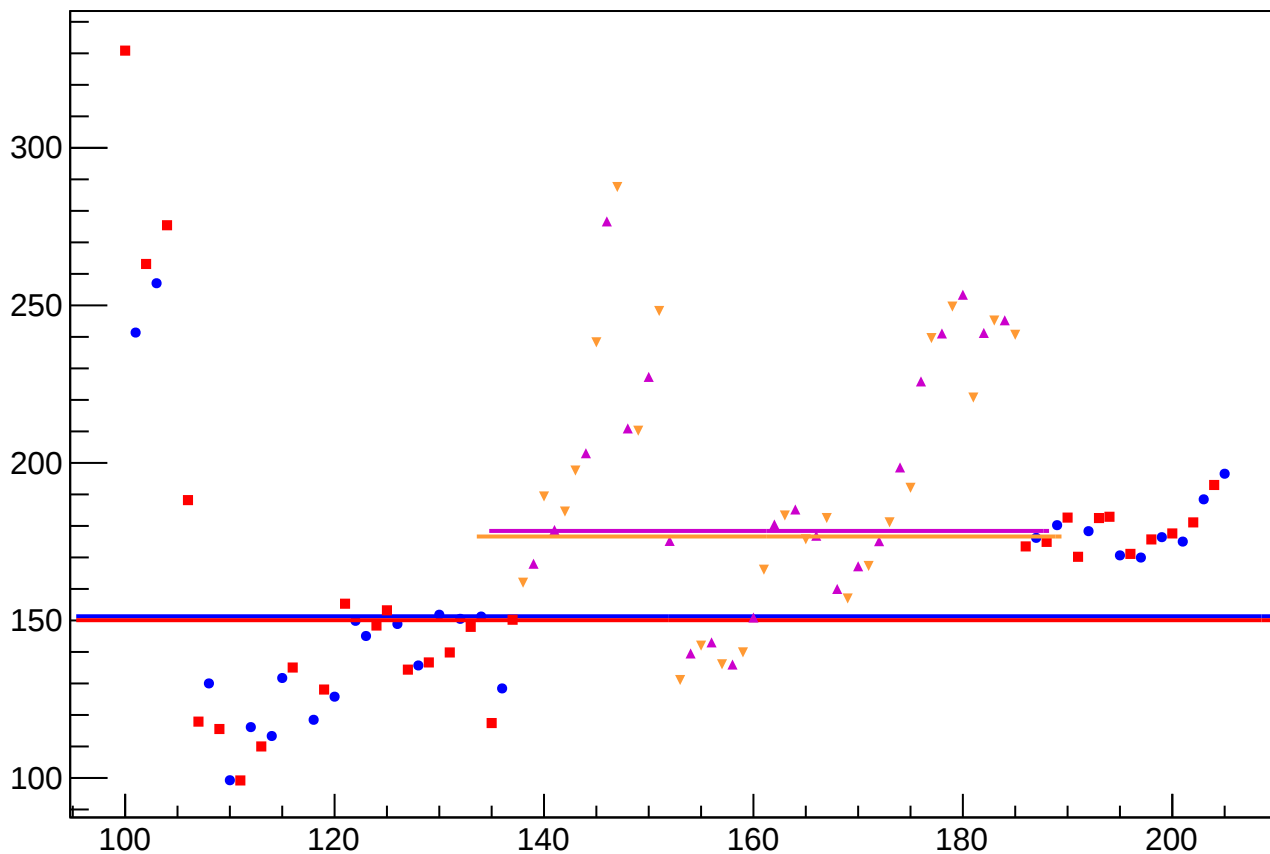
Right: 4548.057 $\pm$ 29.954 χ^2 /NDF: 220718.7/55

In: -1280.336 $\pm$ 31.030 χ^2 /NDF:158737.1/48

Out: 943.643 $\pm$ 29.604 χ^2 /NDF:206033.6/54

All: -116.046 $\pm$ 21.419 χ^2 /NDF: 367459.8/10

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 151.325+/-0.031 χ^2/NDF : 1152437.6/25

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 150.078+/-0.029 χ^2/NDF : 1426076.3/29

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

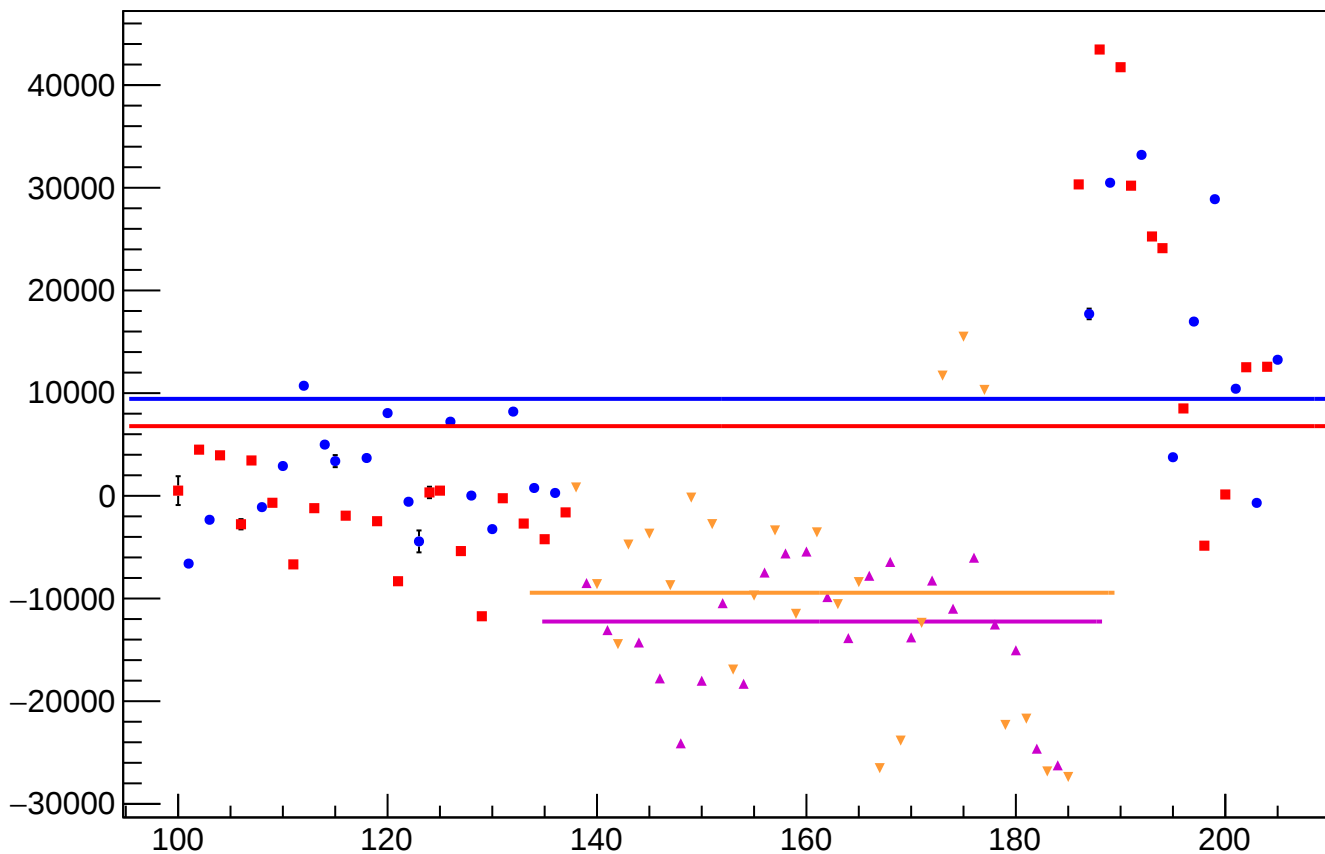
Right: 150.670+/-0.021 χ^2/NDF : 2579378.0/55

In: 164.615+/-0.022 χ^2/NDF :2827072.2/48

Out: 163.011+/-0.021 χ^2/NDF :3379399.9/54

All: 163.775+/-0.015 χ^2/NDF : 6209271.0/103

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9442.233+/-49.643

χ^2/NDF : 48757.1/25

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8043.641+/-34.159

χ^2/NDF : 153189.5/55

Right Out: 6785.932+/-47.076

χ^2/NDF : 102925.0/29

In: -2715.464+/-32.904

χ^2/NDF : 172348.8/48

Out: -1595.768+/-32.729

χ^2/NDF : 226503.1/54

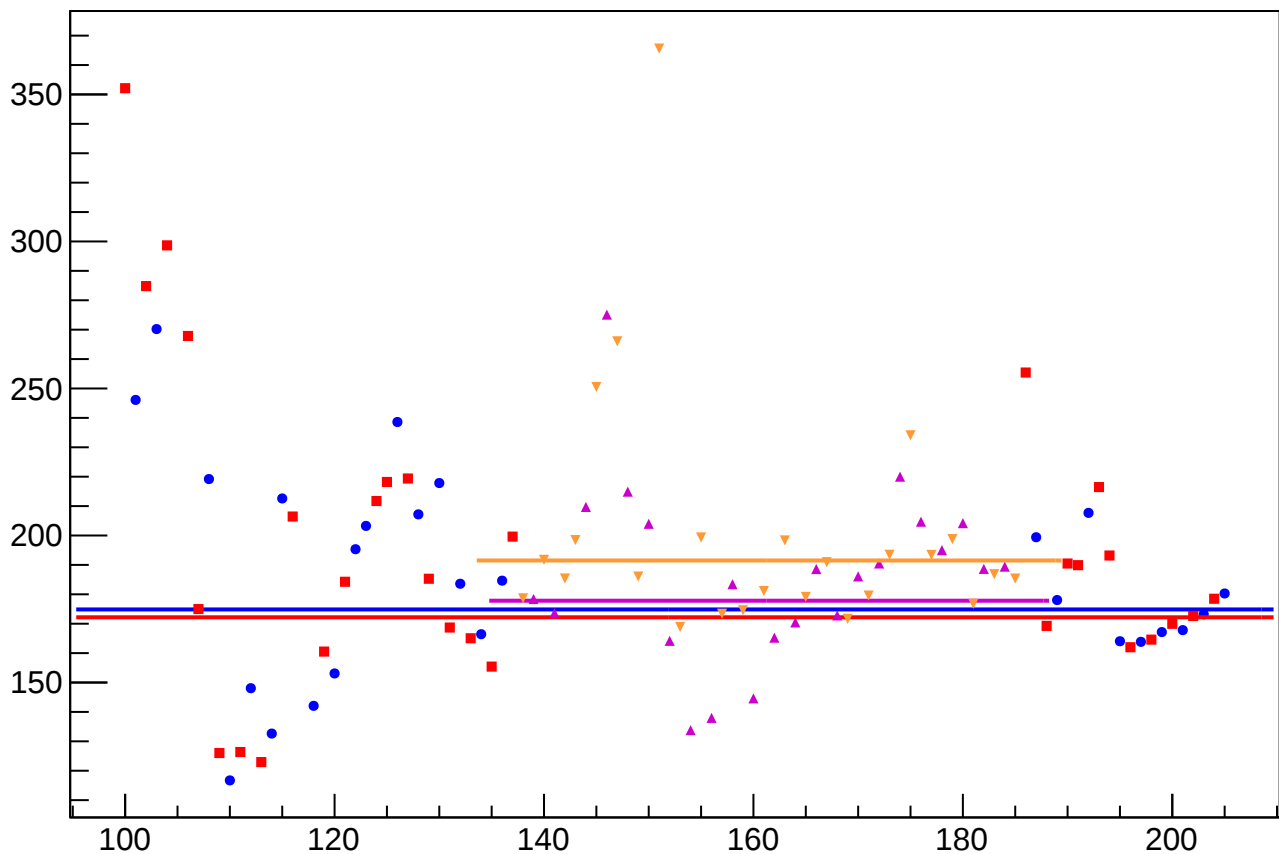
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2152.625+/-23.205

χ^2/NDF : 399434.0/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.854 $\pm$ 0.035 χ^2/NDF : 759679.9/25

Left Out: 191.507 $\pm$ 0.032 χ^2/NDF : 727251.6/24

Right Out: 172.183 $\pm$ 0.033 χ^2/NDF : 1125496.9/29

Left In: 177.821 $\pm$ 0.031 χ^2/NDF : 862494.4/22

Left: 184.421 $\pm$ 0.022 χ^2/NDF : 1683284.8/47

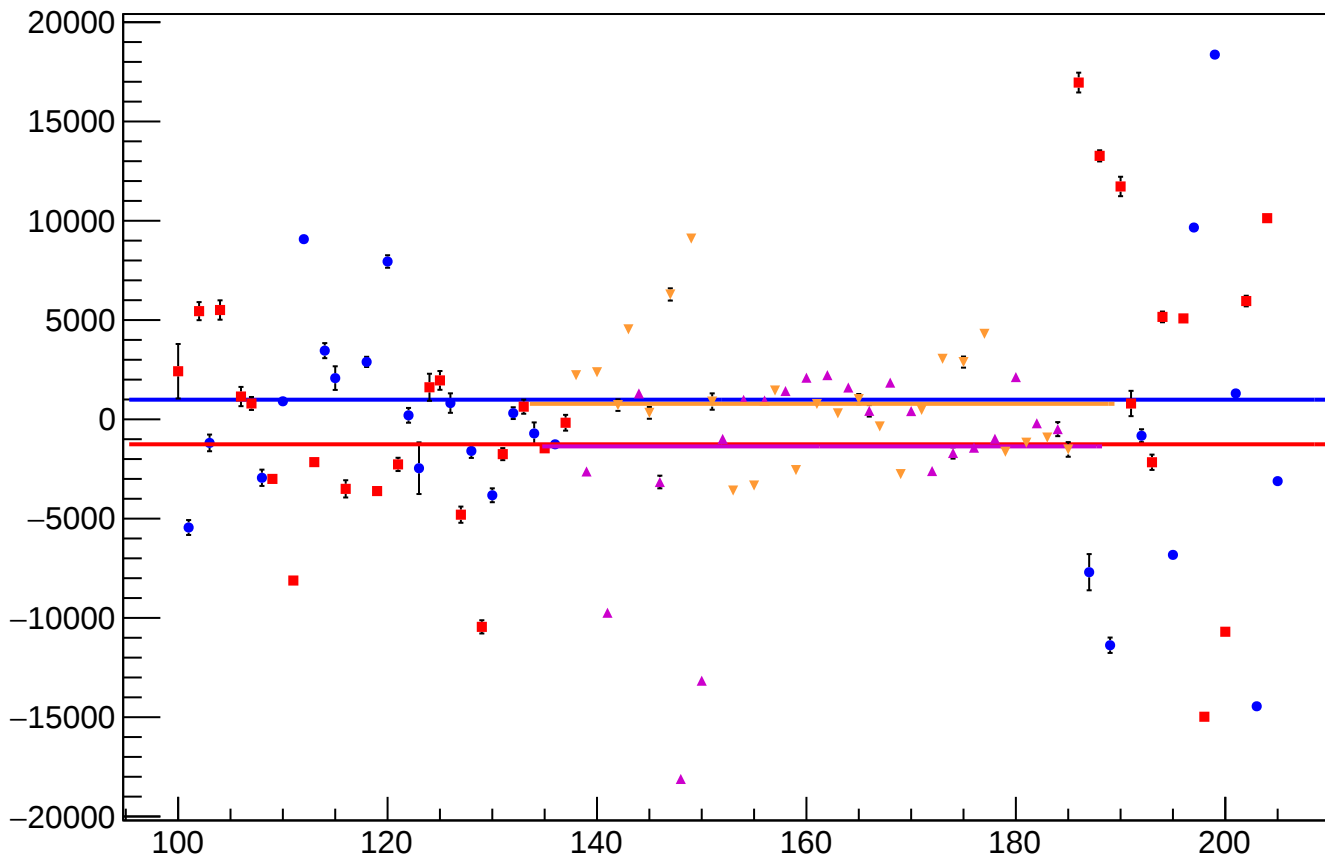
Right: 173.448 $\pm$ 0.024 χ^2/NDF : 1888225.1/55

In: 176.518 $\pm$ 0.023 χ^2/NDF : 1626180.2/48

Out: 182.167 $\pm$ 0.023 χ^2/NDF : 2026844.3/54

All: 179.357 $\pm$ 0.016 χ^2/NDF : 3682653.4/103

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 989.600 $\pm$ 55.798 χ^2 /NDF: 19979.6/25

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: -1256.803 $\pm$ 53.308 χ^2 /NDF: 18889.4/29

Left In: -1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2 /NDF: 16949.3/47

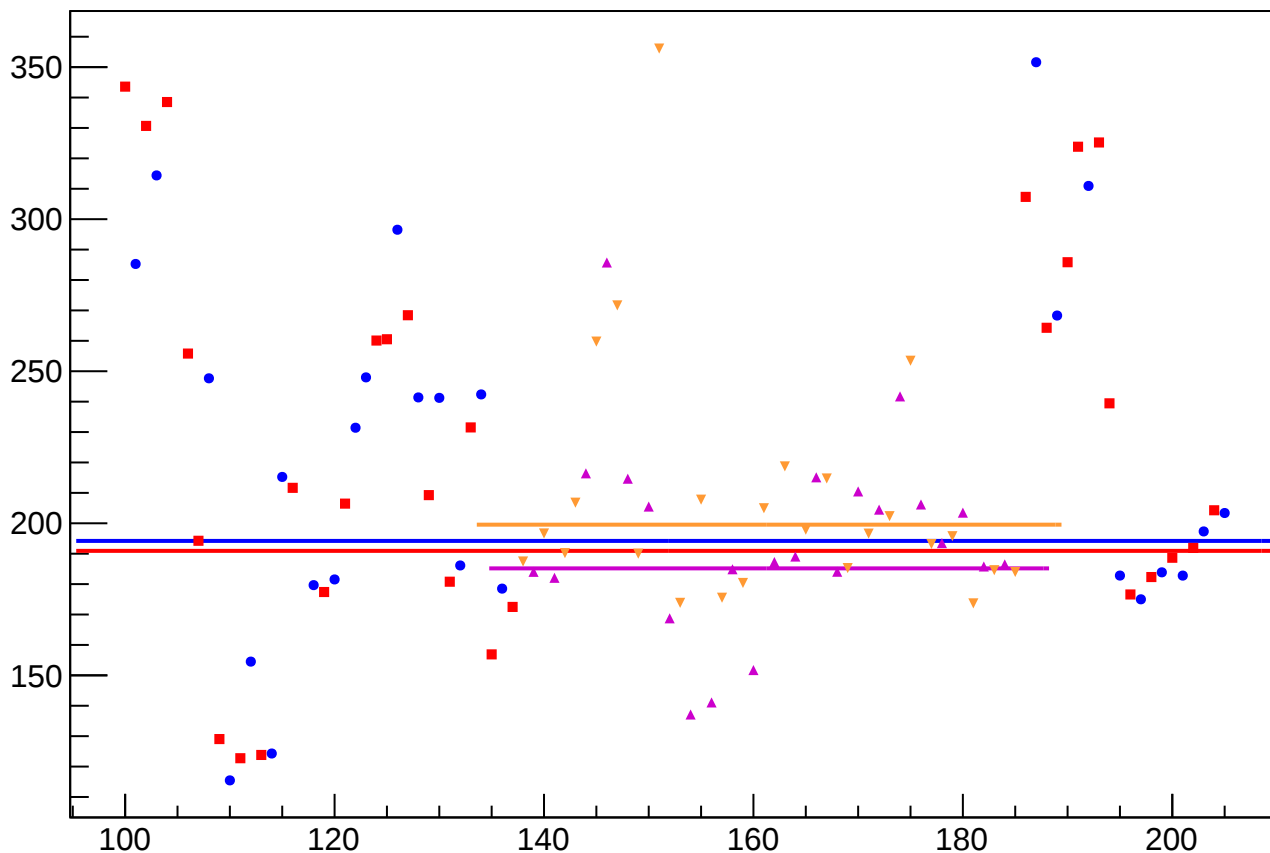
Right: -184.842 $\pm$ 38.544 χ^2 /NDF: 39716.4/55

In: -415.848 $\pm$ 35.404 χ^2 /NDF:32674.5/48

Out: -120.553 $\pm$ 35.446 χ^2 /NDF:23964.6/54

All: -268.374 $\pm$ 25.049 χ^2 /NDF: 56673.8/103

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.203 $\pm$ 0.039 χ^2/NDF : 1410264.3/25

Left Out: 199.547 $\pm$ 0.034 χ^2/NDF : 729356.3/24

Right Out: 190.932 $\pm$ 0.038 χ^2/NDF : 2134116.7/29

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2/NDF : 1707122.0/47

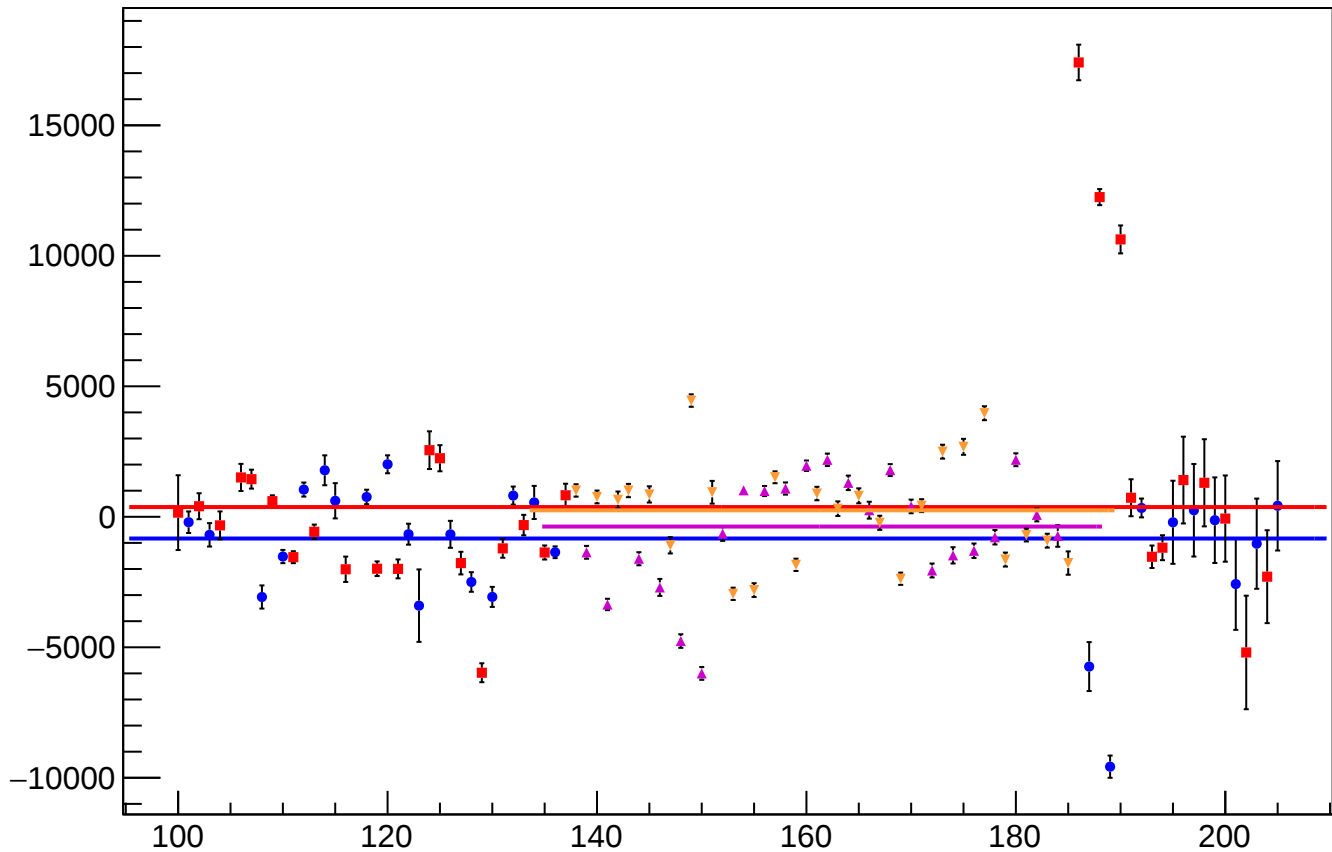
Right: 192.493 $\pm$ 0.027 χ^2/NDF : 3547975.9/55

In: 188.807 $\pm$ 0.025 χ^2/NDF : 2324327.3/48

Out: 195.738 $\pm$ 0.025 χ^2/NDF : 2892614.0/54

All: 192.268 $\pm$ 0.018 χ^2/NDF : 5255215.2/103

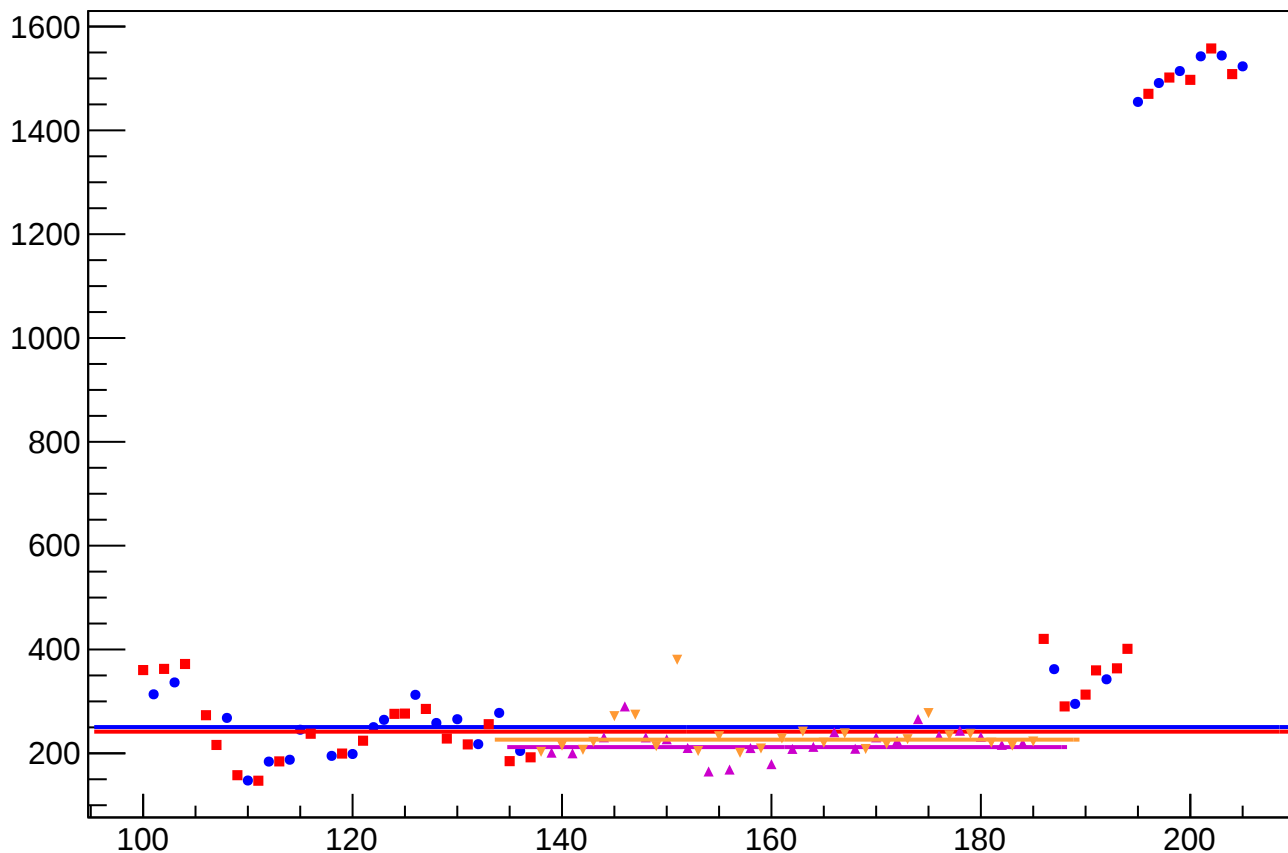
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.364 ± 83.541 $\chi^2/\text{NDF}: 761.7/25$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 373.180 ± 75.073 $\chi^2/\text{NDF}: 3171.4/29$
 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: -165.413 ± 55.839 $\chi^2/\text{NDF}: 4048.3/55$
 In: -502.259 ± 44.176 $\chi^2/\text{NDF}: 2584.4/48$
 Out: 290.115 ± 43.598 $\chi^2/\text{NDF}: 4528.3/54$
 All: -100.853 ± 31.031 $\chi^2/\text{NDF}: 7275.7/103$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 250.568 $\pm$ 0.059 χ^2 /NDF: 7663074.2/25

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 241.707 $\pm$ 0.053 χ^2 /NDF: 6982042.3/29

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

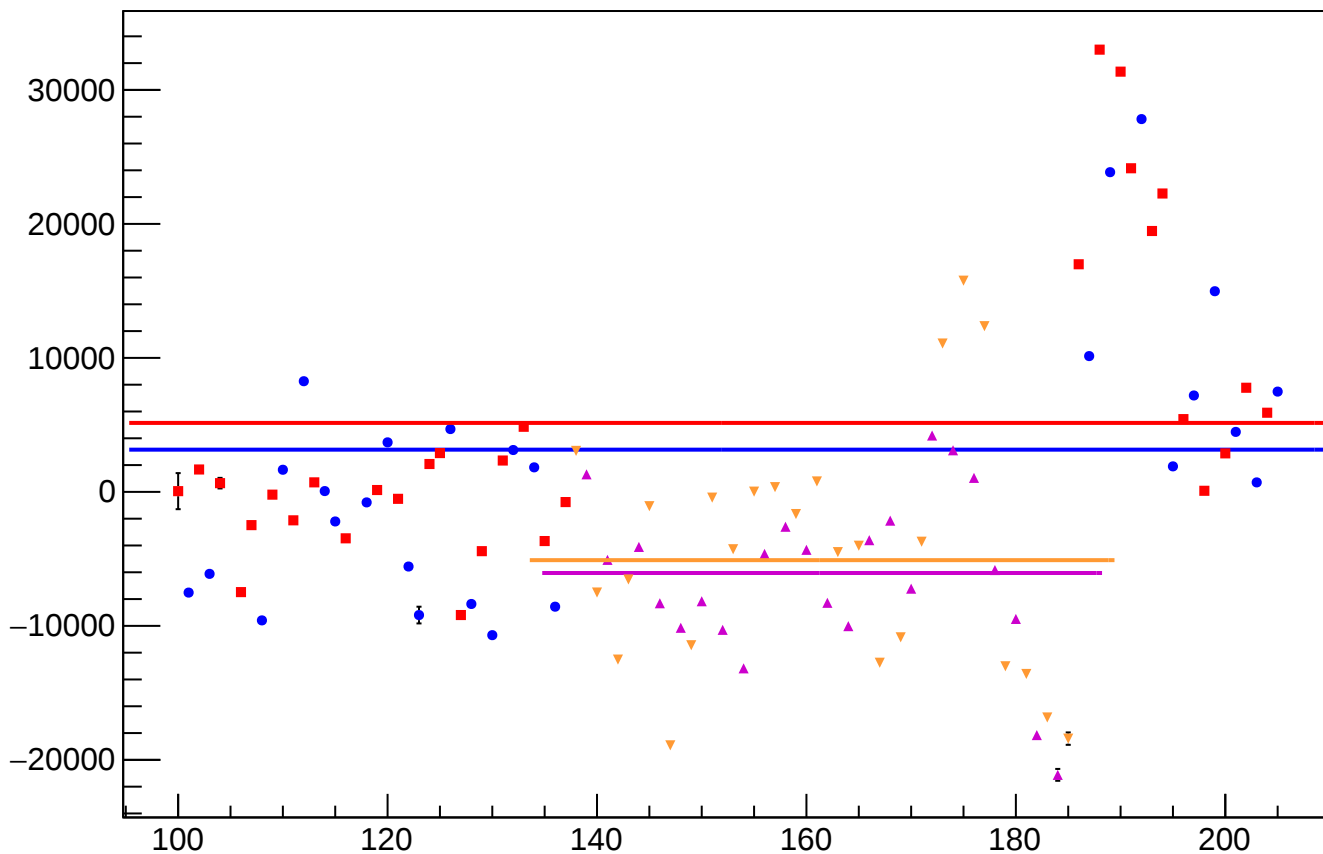
Right: 245.666 $\pm$ 0.039 χ^2 /NDF: 14657566.2/55

In: 222.763 $\pm$ 0.031 χ^2 /NDF: 8554969.0/48

Out: 231.511 $\pm$ 0.031 χ^2 /NDF: 7558750.3/54

All: 227.195 $\pm$ 0.022 χ^2 /NDF: 16153442.9/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3151.589+/-36.951 χ^2/NDF : 73941.5/25

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5147.498+/-34.813 χ^2/NDF : 101013.7/29

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

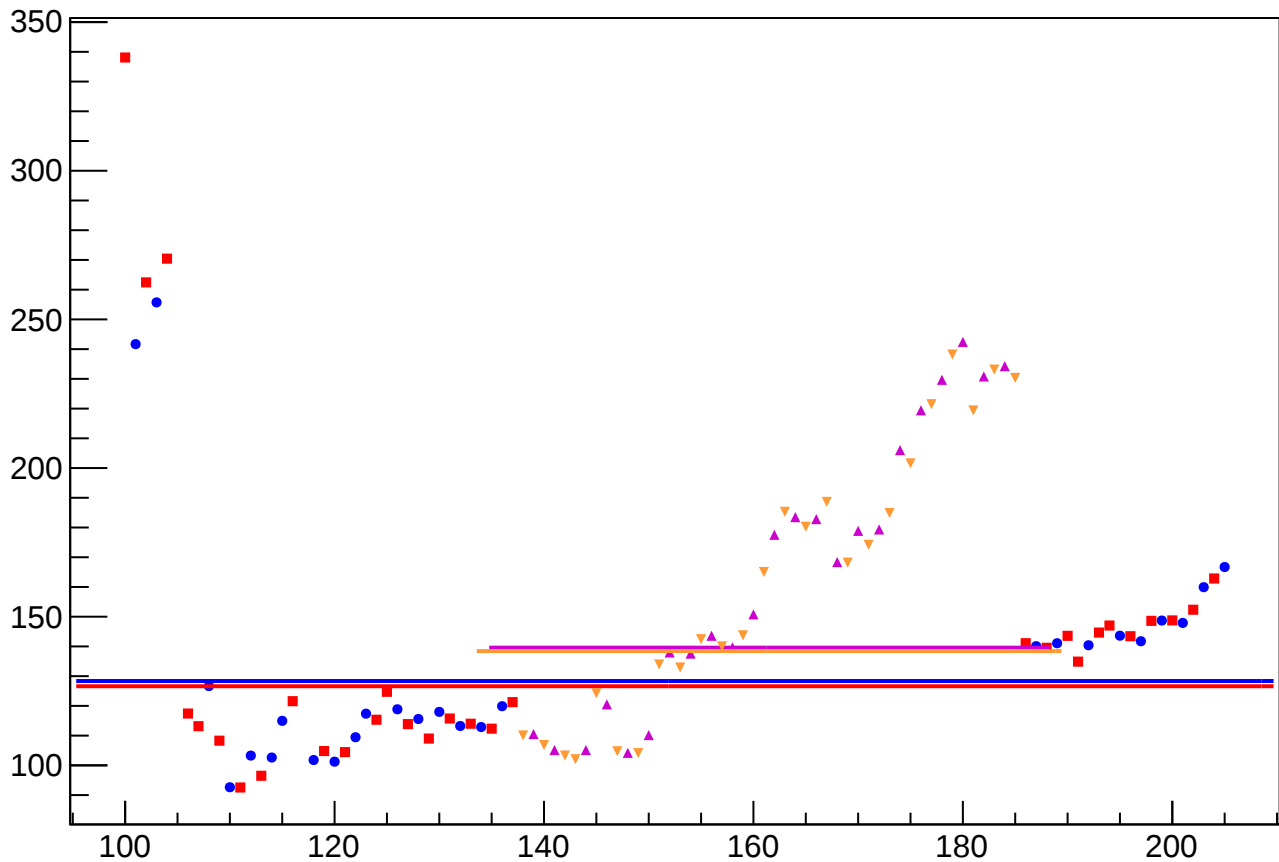
Right: 4208.951+/-25.339 χ^2/NDF : 176500.9/55

In: -1700.662+/-25.410 χ^2/NDF : 124245.0/48

Out: -139.738+/-24.215 χ^2/NDF : 200094.3/54

All: -882.634+/-17.530 χ^2/NDF : 326316.9/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 128.365+/-0.026 χ^2/NDF : 1145307.4/25

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 126.609+/-0.025 χ^2/NDF : 1252162.1/29

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

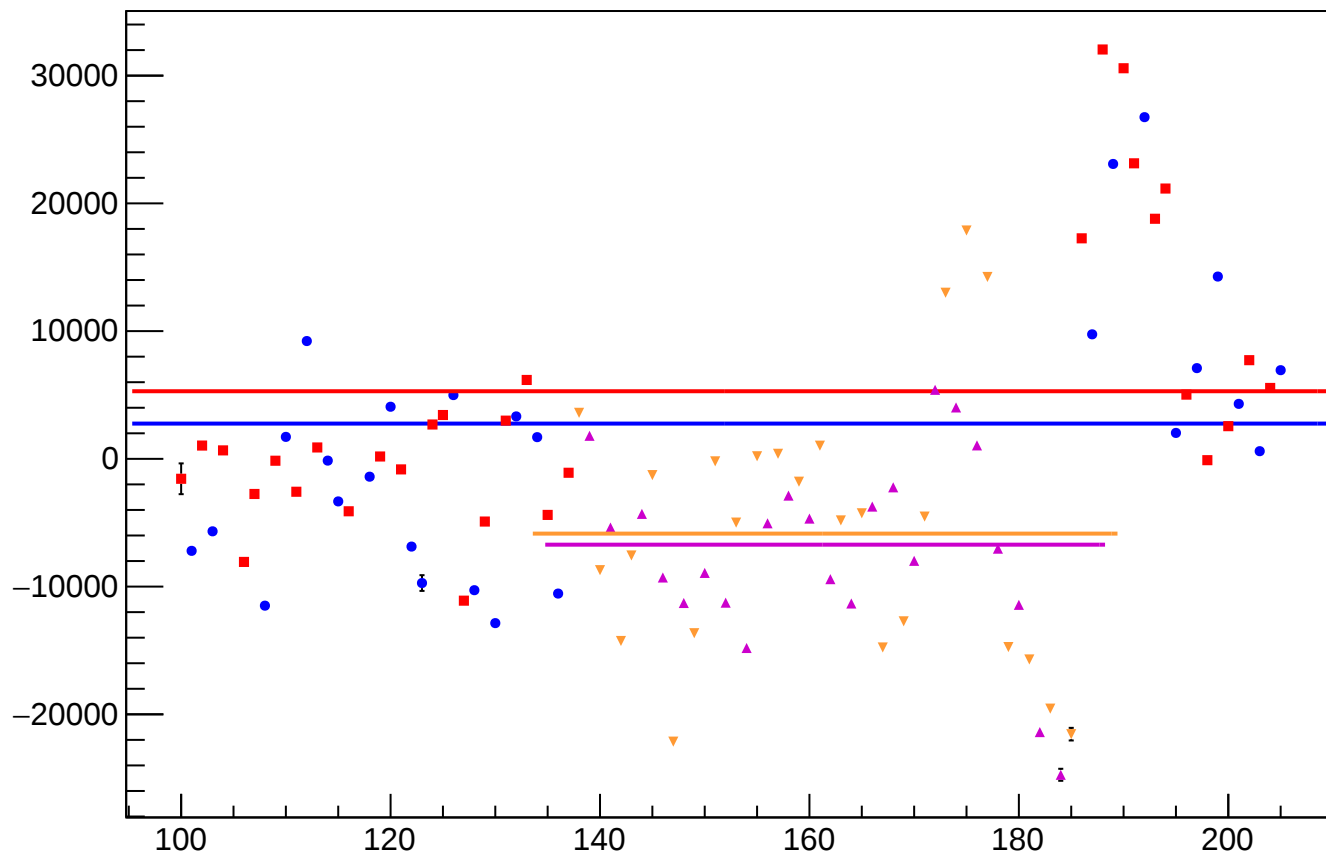
Right: 127.435+/-0.018 χ^2/NDF : 2399860.6/55

In: 134.275+/-0.018 χ^2/NDF :3656045.5/48

Out: 132.714+/-0.017 χ^2/NDF :3920734.8/54

All: 133.457+/-0.012 χ^2/NDF : 7580737.9/103

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2760.584+/-37.137

χ^2/NDF : 78942.9/25

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right: 4096.603+/-25.527

χ^2/NDF : 182917.6/55

Right Out: 5293.137+/-35.145

χ^2/NDF : 101521.4/29

In: -1961.352+/-26.309

χ^2/NDF : 132330.7/48

Out: -164.475+/-25.107

χ^2/NDF : 214179.0/54

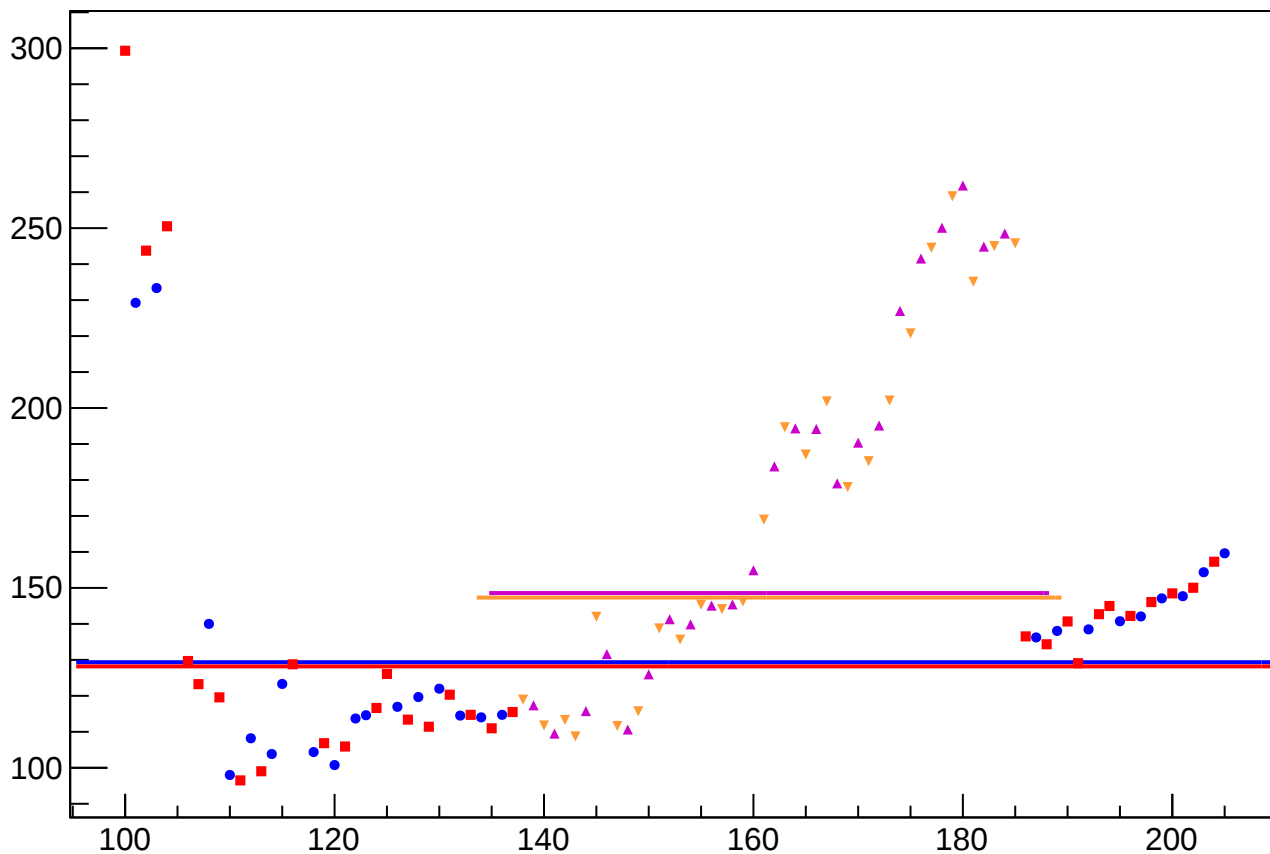
Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

All: -1020.940+/-18.163

χ^2/NDF : 348951.0/1

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.349+/-0.026 χ^2/NDF : 925893.5/25

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 128.186+/-0.025 χ^2/NDF : 998281.9/29

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

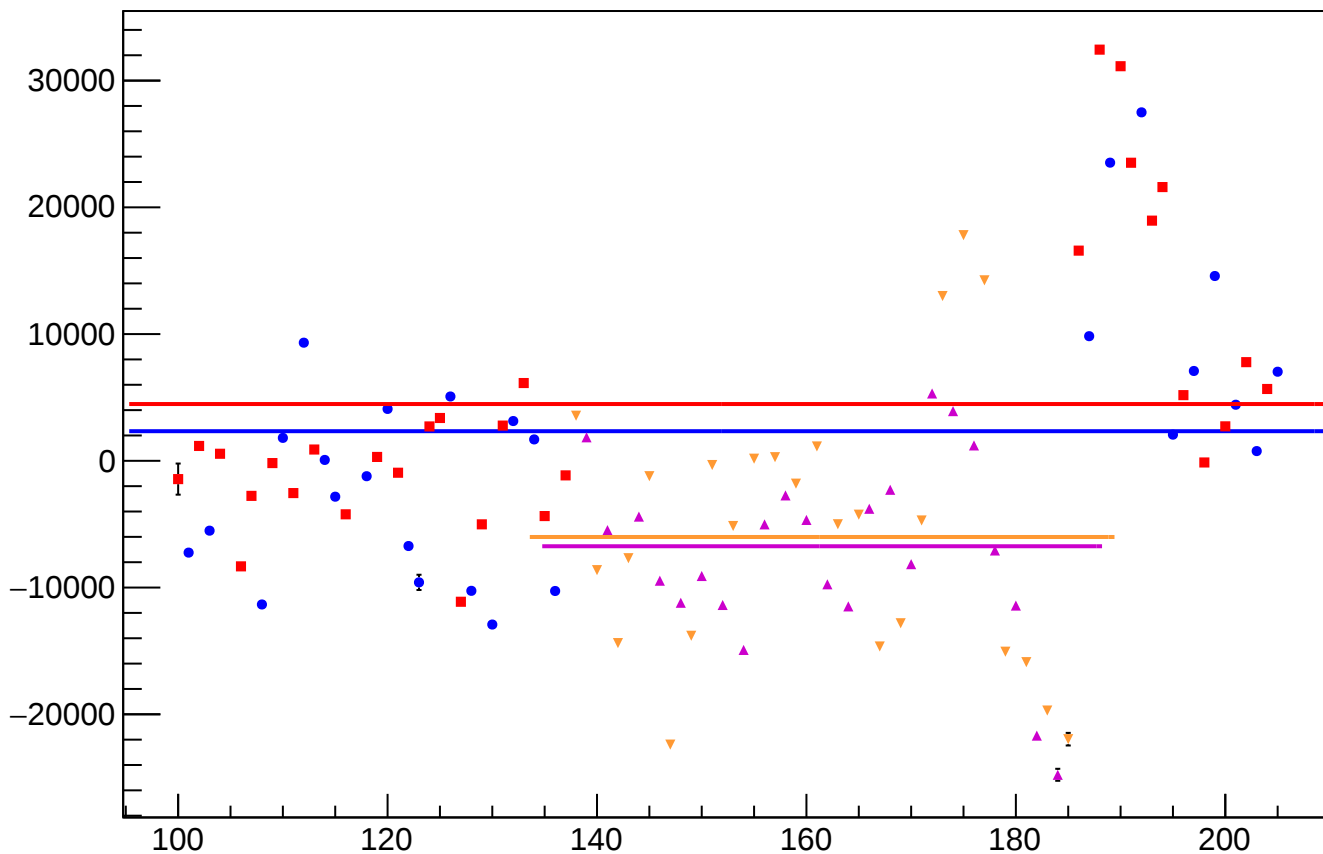
Right: 128.736+/-0.018 χ^2/NDF : 1925210.5/55

In: 138.923+/-0.019 χ^2/NDF : 3585907.8/48

Out: 137.554+/-0.018 χ^2/NDF : 3800144.2/54

All: 138.207+/-0.013 χ^2/NDF : 7388887.9/103

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2337.927+/-36.727 χ^2/NDF : 78350.9/25

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 4480.598+/-34.862 χ^2/NDF : 96152.8/29

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

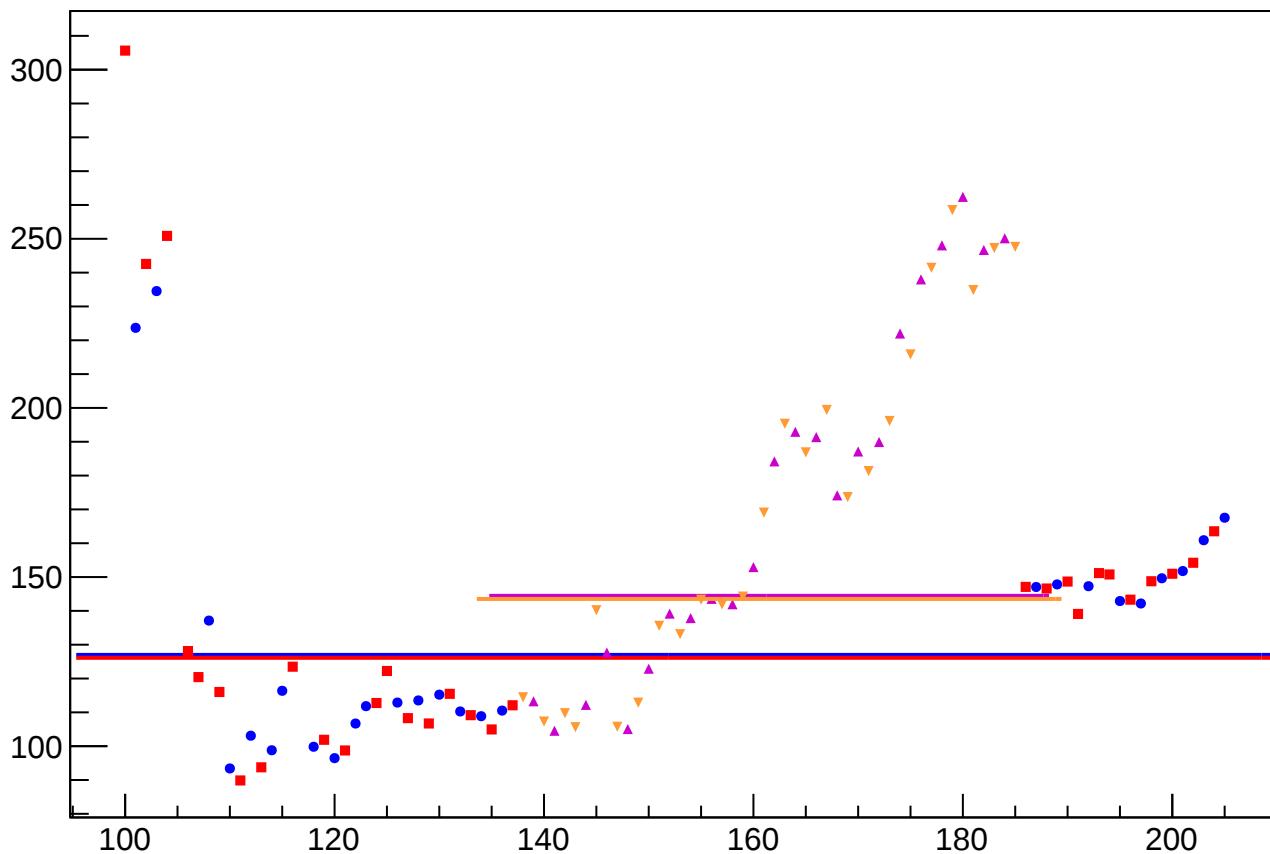
Right: 3465.050+/-25.285 χ^2/NDF : 176294.1/55

In: -2244.553+/-25.846 χ^2/NDF : 131264.9/48

Out: -731.599+/-24.729 χ^2/NDF : 208994.9/54

All: -1454.662+/-17.868 χ^2/NDF : 342048.7/11

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 126.985 $\pm$ 0.026 χ^2 /NDF: 1203908.9/25

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 126.128 $\pm$ 0.025 χ^2 /NDF: 1351956.8/29

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47

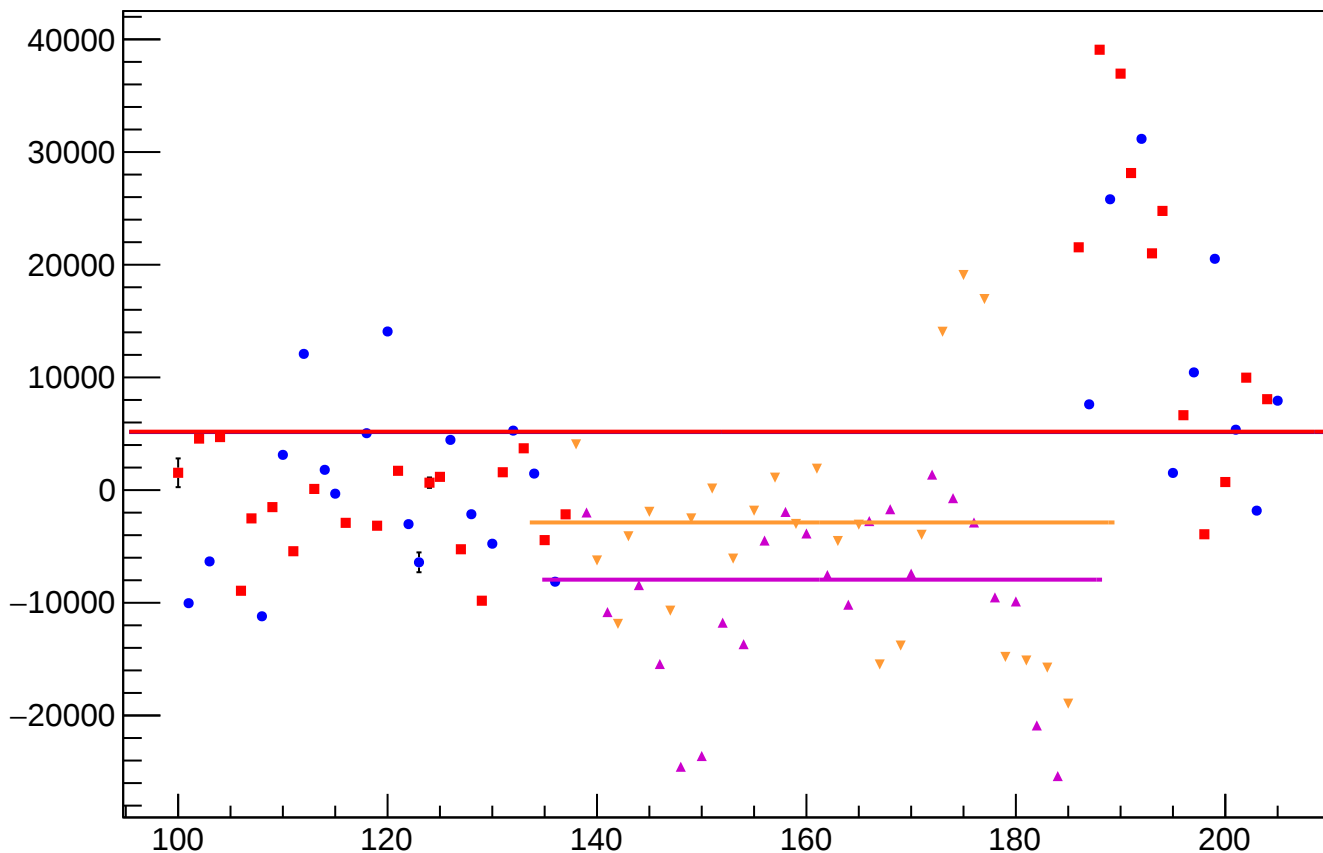
Right: 126.534 $\pm$ 0.018 χ^2 /NDF: 2556438.0/55

In: 135.795 $\pm$ 0.018 χ^2 /NDF: 4018846.3/48

Out: 134.775 $\pm$ 0.017 χ^2 /NDF: 4304352.3/54

All: 135.263 $\pm$ 0.013 χ^2 /NDF: 8324826.9/103

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5151.705+/-44.458 χ^2/NDF : 59870.6/25

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5185.651+/-42.190 χ^2/NDF : 95371.1/29

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

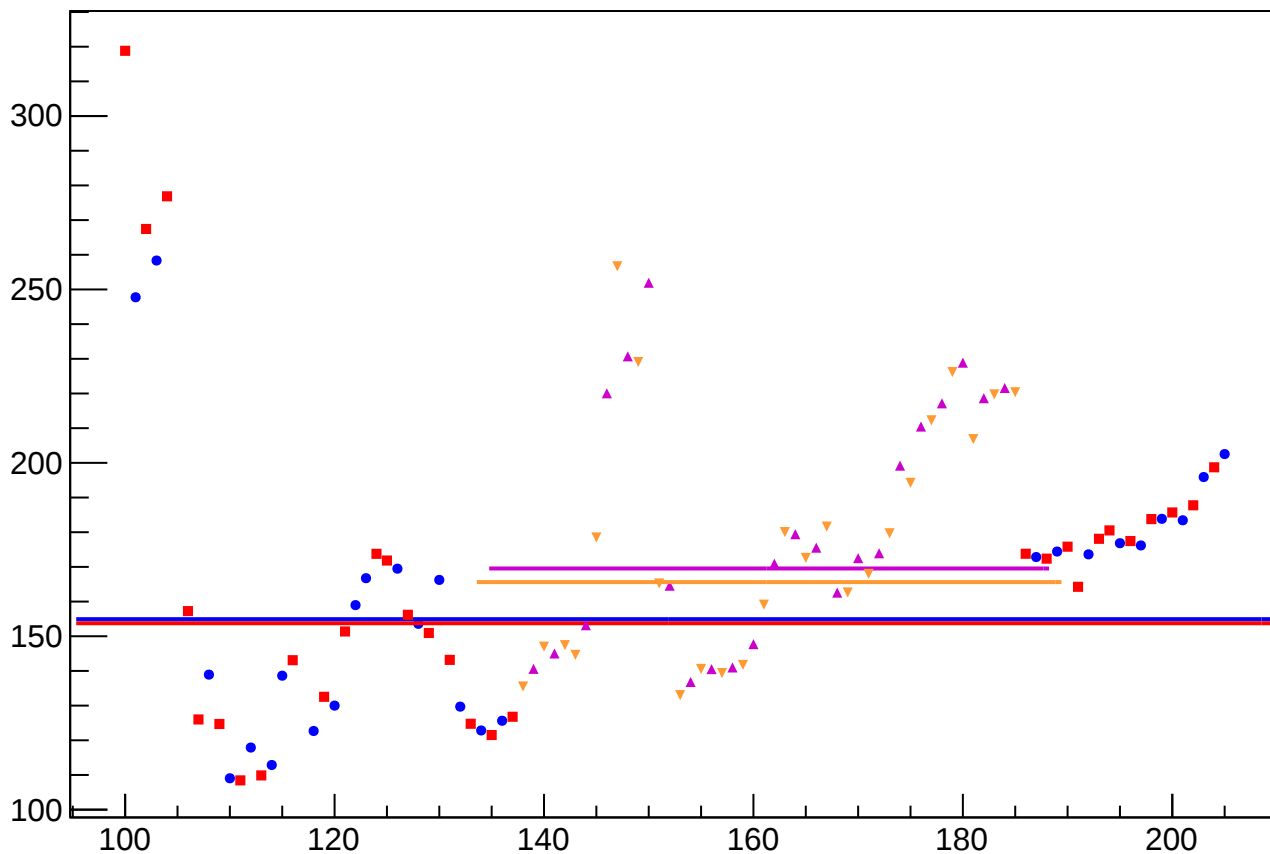
Right: 5169.566+/-30.603 χ^2/NDF : 155242.0/55

In: -1812.620+/-30.425 χ^2/NDF : 129898.9/48

Out: 890.743+/-28.828 χ^2/NDF : 161229.4/54

All: -388.144+/-20.926 χ^2/NDF : 295288.5/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 154.929+/-0.031 χ^2/NDF : 1158105.9/25

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 153.748+/-0.030 χ^2/NDF : 1282892.3/29

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

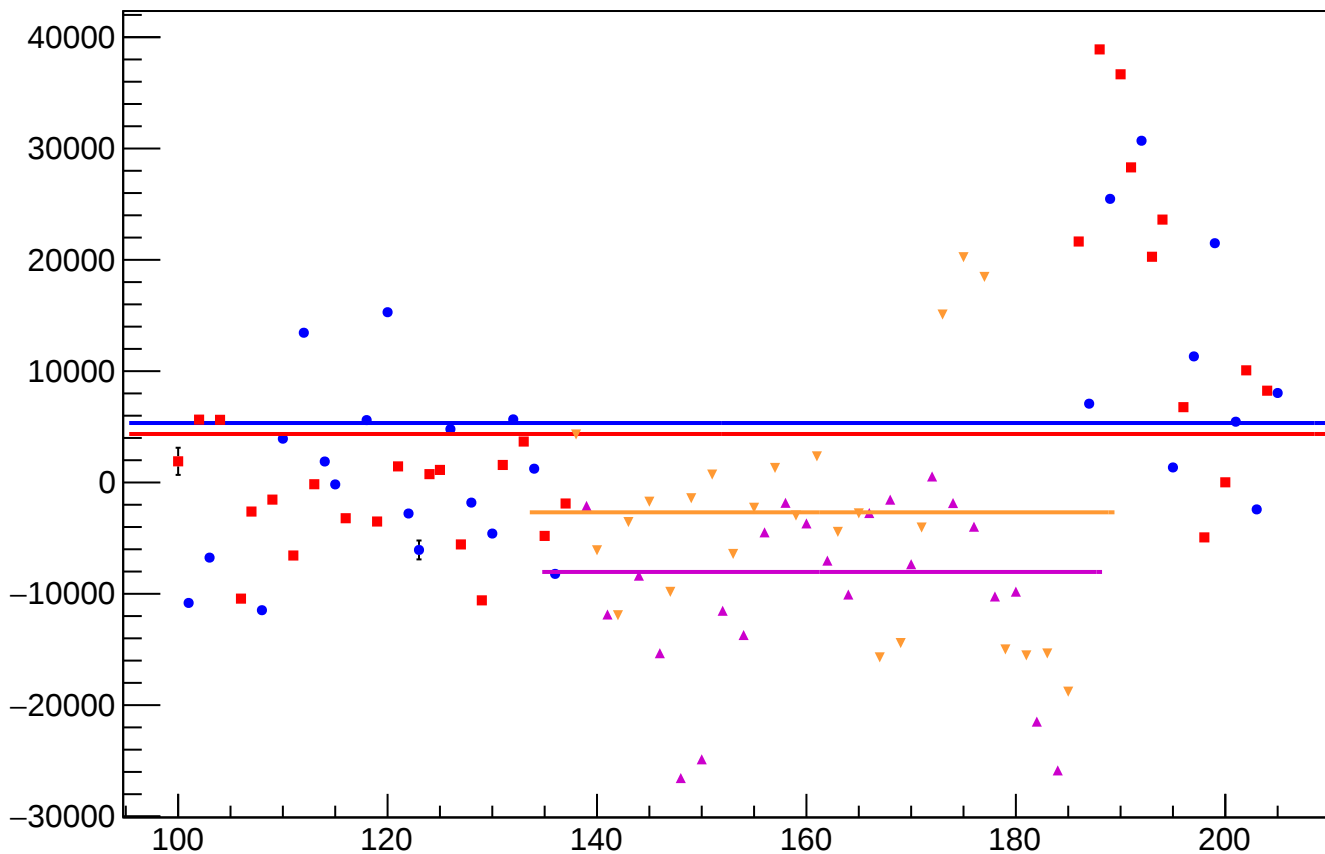
Right: 154.308+/-0.022 χ^2/NDF : 2441740.6/55

In: 162.698+/-0.022 χ^2/NDF :2432221.7/48

Out: 160.075+/-0.020 χ^2/NDF :2512042.7/54

All: 161.316+/-0.015 χ^2/NDF : 4952096.1/103

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5342.616+/-37.480

χ^2/NDF : 84296.7/25

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 4356.605+/-35.326

χ^2/NDF : 132695.0/29

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 4820.466+/-25.707

χ^2/NDF : 217358.2/55

In: -1268.243+/-26.658

χ^2/NDF : 176523.2/48

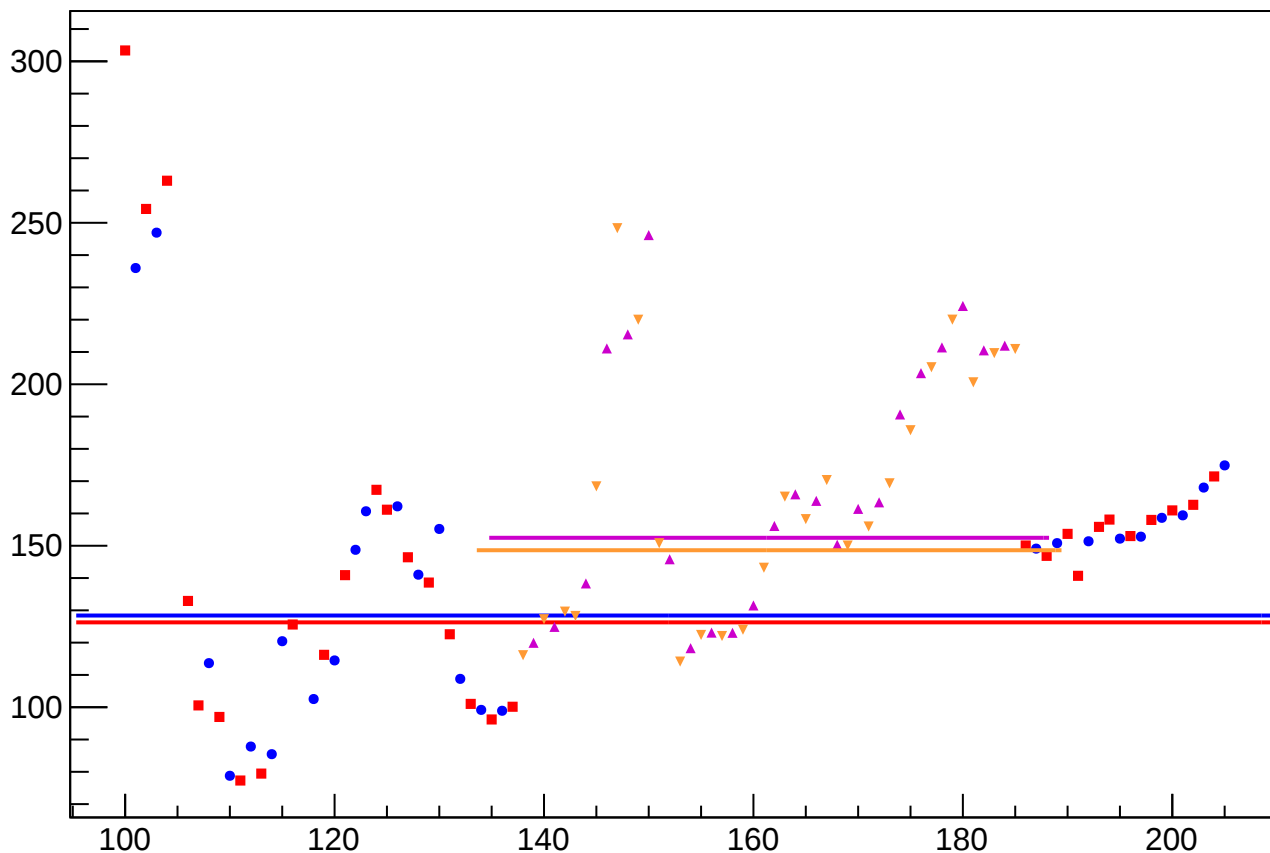
Out: 881.602+/-25.133

χ^2/NDF : 209109.6/54

All: -130.052+/-18.287

χ^2/NDF : 389076.1/10

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 128.395+/-0.027 χ^2/NDF : 1831307.8/25

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 126.275+/-0.025 χ^2/NDF : 2098725.5/29

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

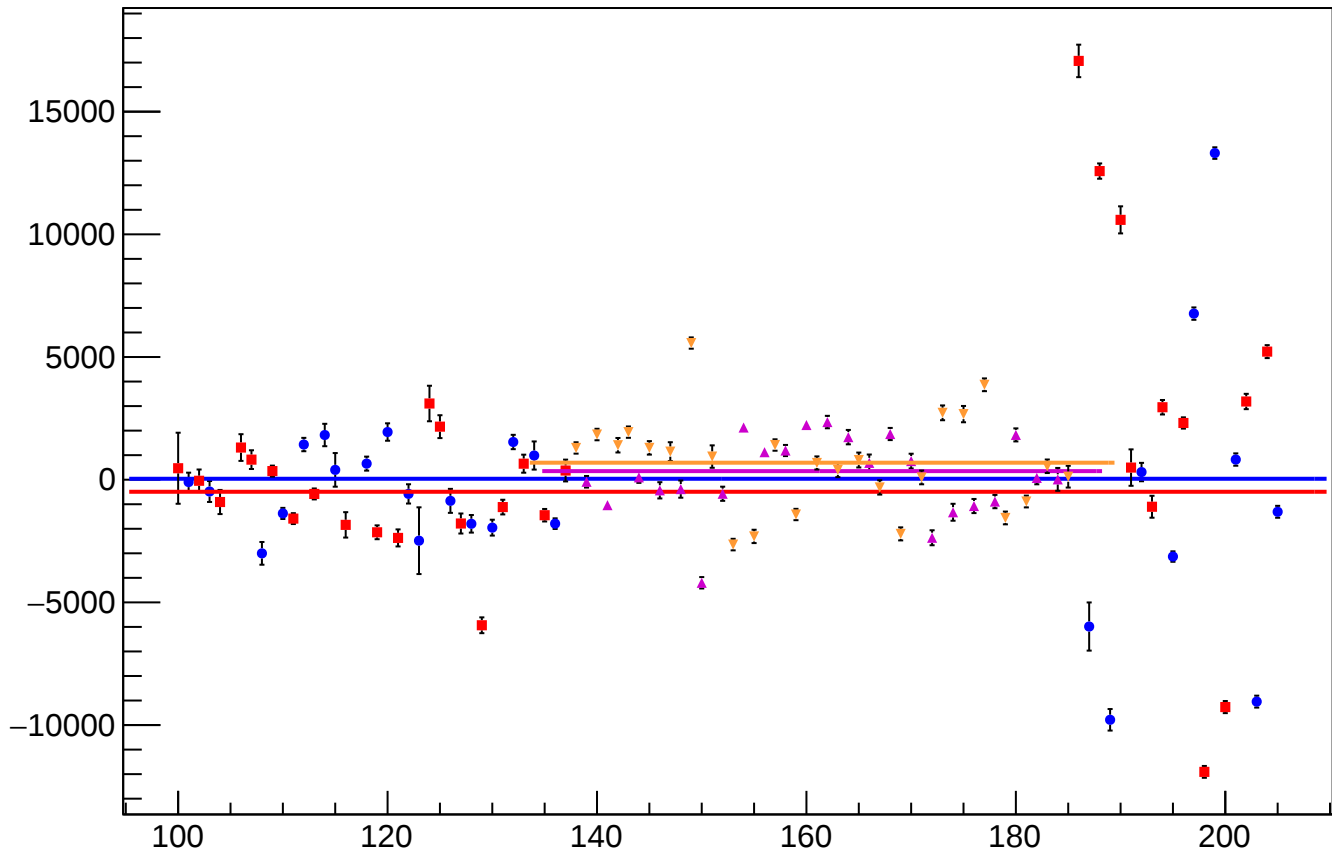
Right: 127.272+/-0.018 χ^2/NDF : 3933424.2/55

In: 140.288+/-0.019 χ^2/NDF :3930328.5/48

Out: 137.305+/-0.018 χ^2/NDF :4179006.1/54

All: 138.709+/-0.013 χ^2/NDF : 8122586.9/103

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 37.952 ± 61.959 $\chi^2/\text{NDF}: 6420.4/25$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: -491.890 ± 60.079 $\chi^2/\text{NDF}: 7774.5/29$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

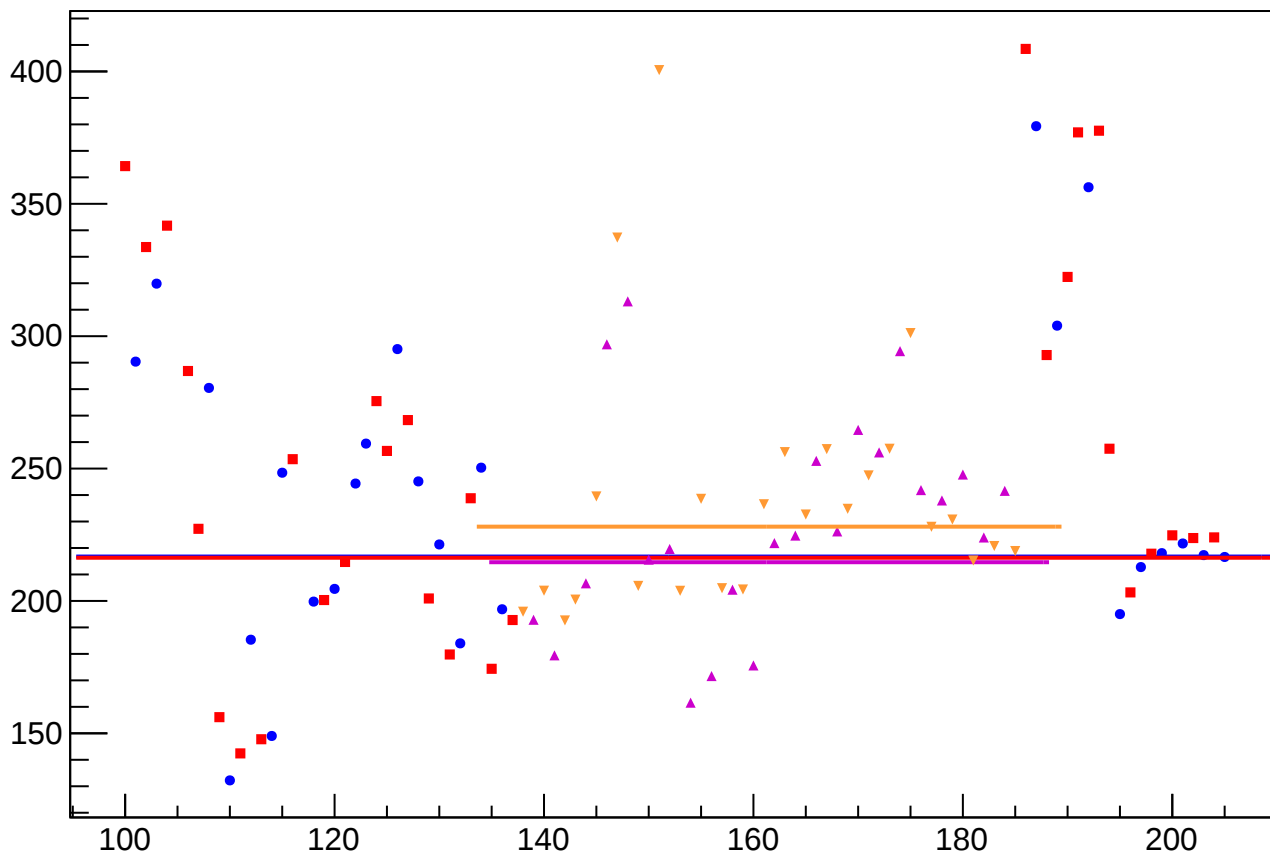
Right: -235.132 ± 43.132 $\chi^2/\text{NDF}: 14232.6/55$

In: 217.661 ± 40.316 $\chi^2/\text{NDF}: 7416.0/48$

Out: 160.229 ± 40.286 $\chi^2/\text{NDF}: 9410.6/54$

All: 188.923 ± 28.497 $\chi^2/\text{NDF}: 16827.6/103$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.769 $\pm$ 0.044 χ^2 /NDF: 1149777.2/25

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 216.321 $\pm$ 0.042 χ^2 /NDF: 1820691.1/29

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

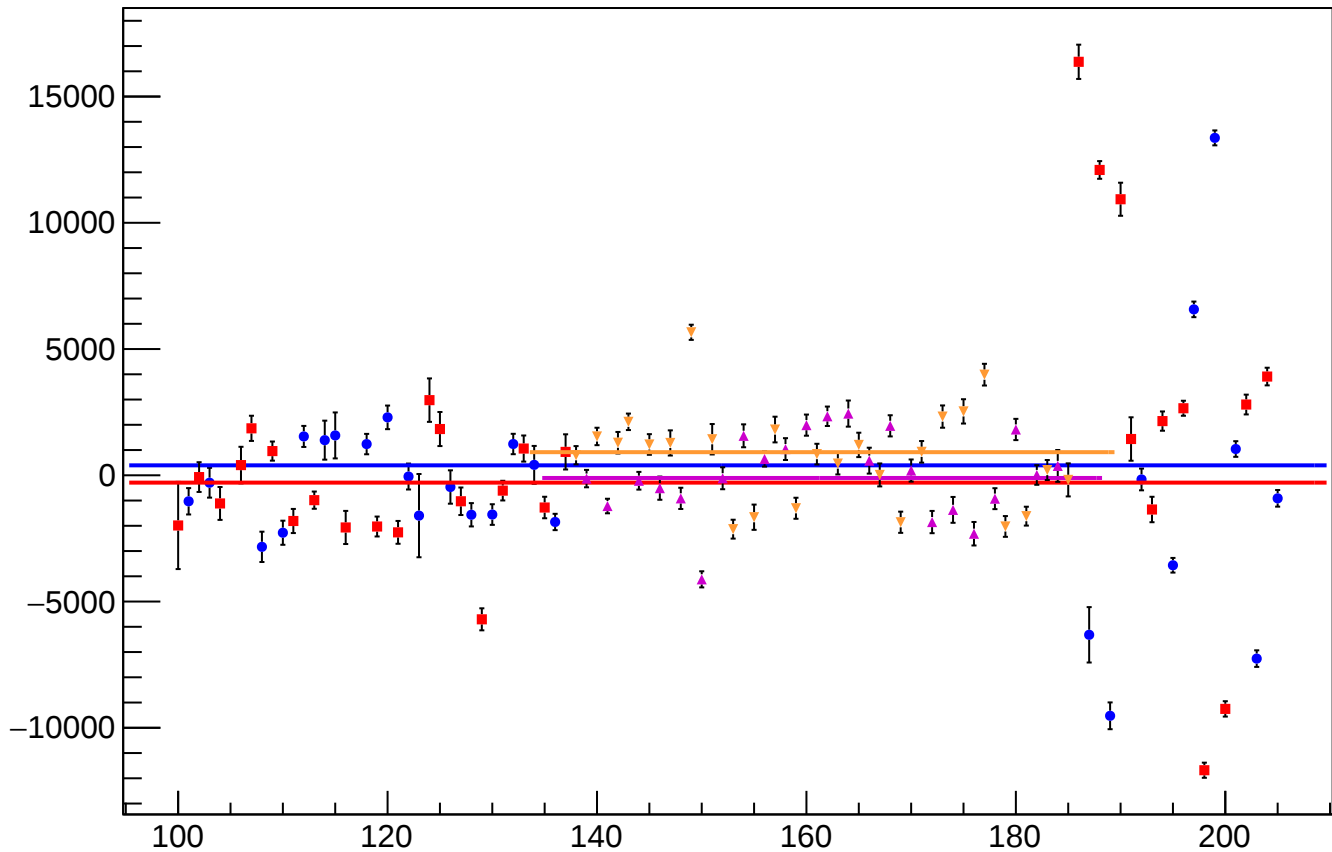
Right: 216.538 $\pm$ 0.030 χ^2 /NDF: 2970522.1/55

In: 215.534 $\pm$ 0.029 χ^2 /NDF: 2176838.3/48

Out: 222.782 $\pm$ 0.028 χ^2 /NDF: 2689063.1/54

All: 219.161 $\pm$ 0.020 χ^2 /NDF: 4898250.6/103

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 394.156 ± 84.485 $\chi^2/\text{NDF}: 3657.4/25$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: -290.309 ± 82.231 $\chi^2/\text{NDF}: 5098.3/29$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

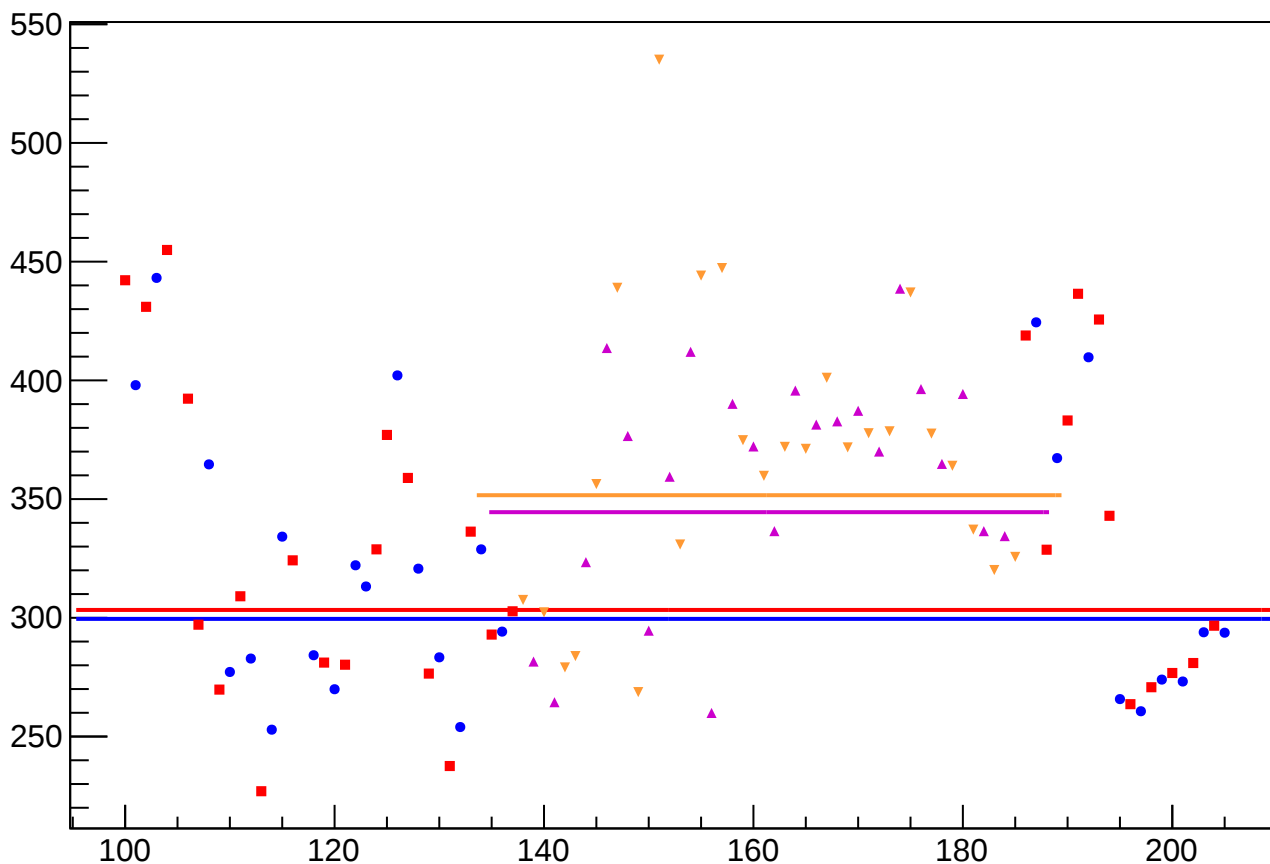
Right: 42.673 ± 58.927 $\chi^2/\text{NDF}: 8789.4/55$

In: 143.748 ± 59.707 $\chi^2/\text{NDF}: 4065.2/48$

Out: 304.330 ± 58.555 $\chi^2/\text{NDF}: 5822.7/54$

All: 225.605 ± 41.806 $\chi^2/\text{NDF}: 9891.6/103$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 299.547 ± 0.060 χ^2/NDF : 608887.5/25

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 303.314 ± 0.058 χ^2/NDF : 862918.1/29

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

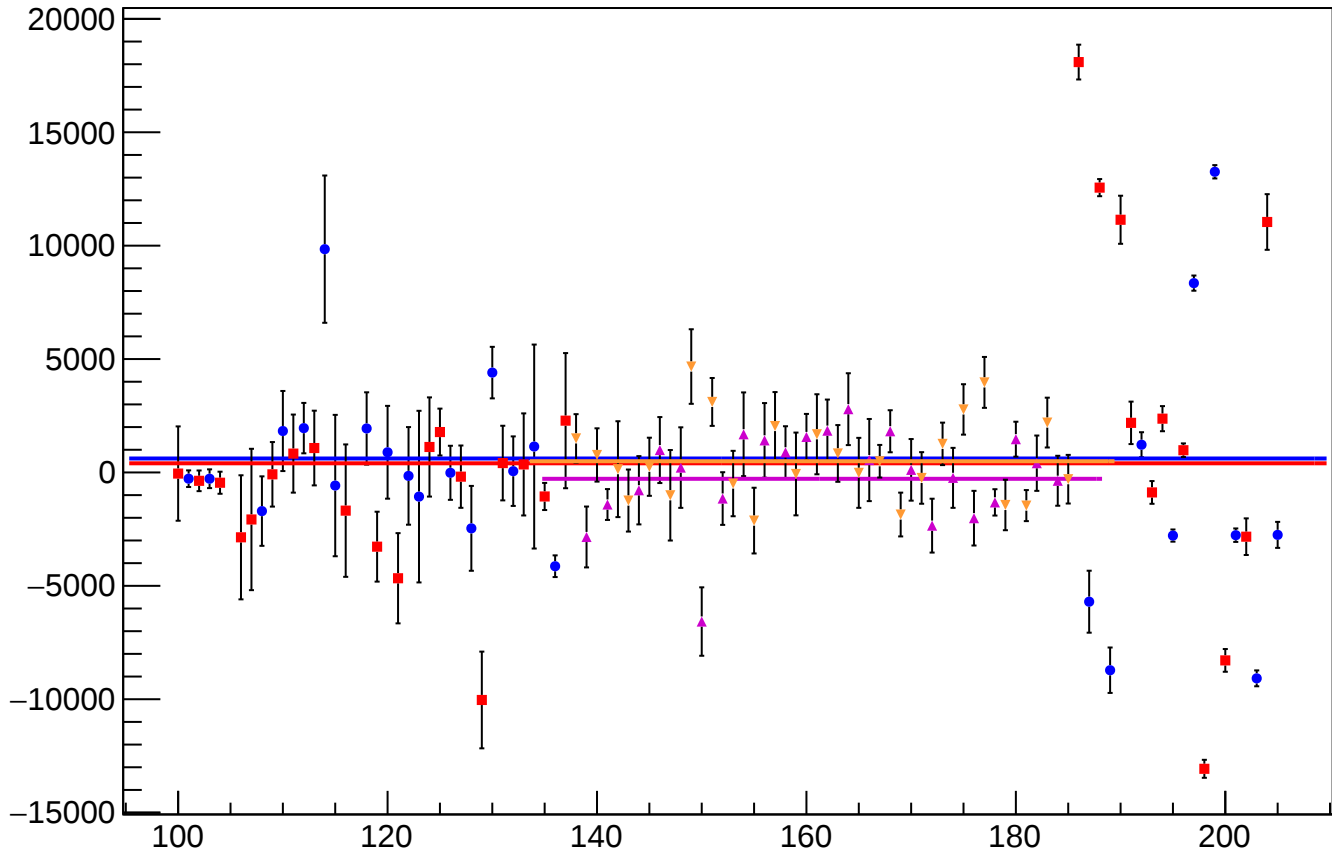
Right: 301.481 ± 0.042 χ^2/NDF : 1473847.6/55

In: 322.043 ± 0.042 χ^2/NDF : 1661081.0/48

Out: 327.133 ± 0.041 χ^2/NDF : 2111173.8/54

All: 324.638 ± 0.030 χ^2/NDF : 3779663.4/103

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 614.834 $\pm$ 108.926 χ^2 /NDF: 3719.2/25

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF: 56.2/24

Right Out: 403.268 $\pm$ 130.870 χ^2 /NDF: 3293.9/29

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

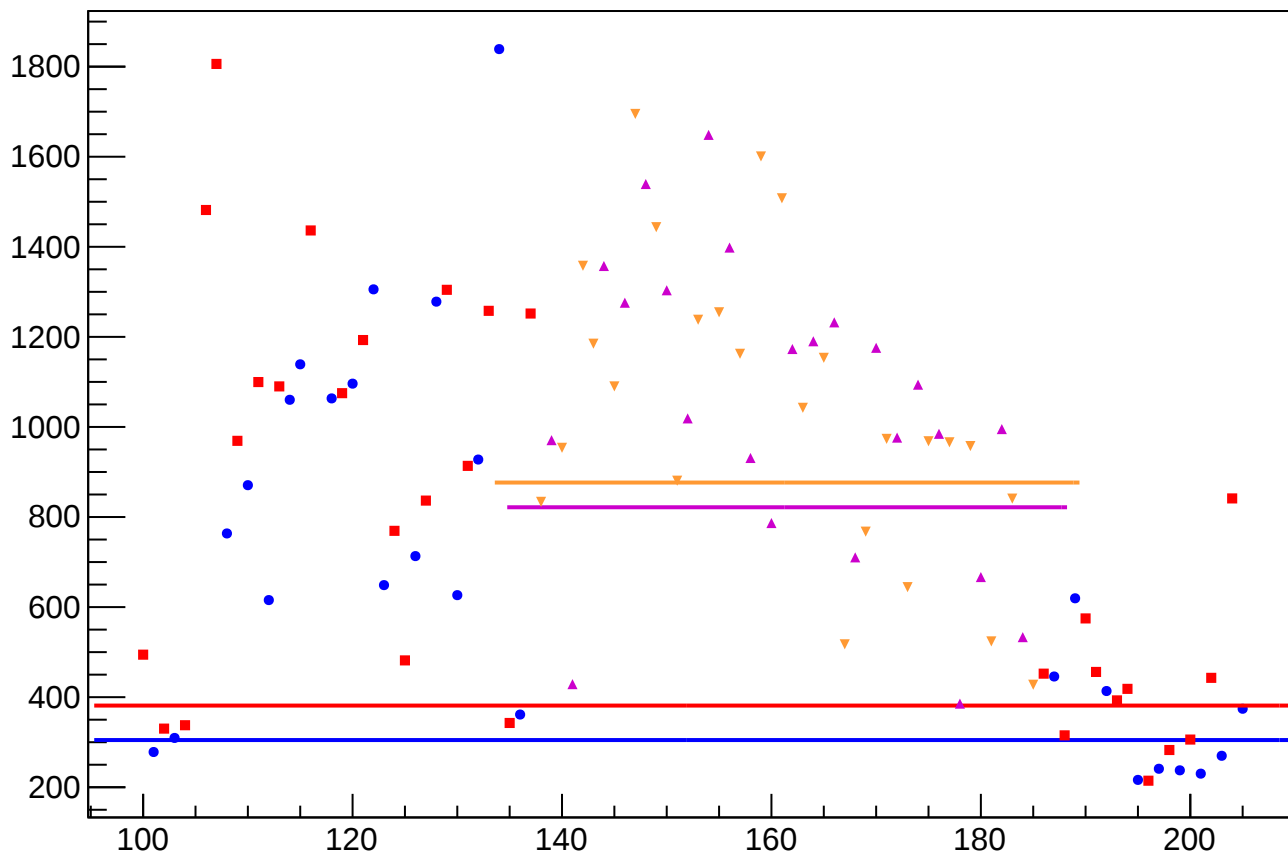
Right: 528.251 $\pm$ 83.721 χ^2 /NDF: 7014.7/55

In: 453.137 $\pm$ 98.603 χ^2 /NDF: 3788.7/48

Out: 425.552 $\pm$ 113.873 χ^2 /NDF: 3350.2/54

All: 441.316 $\pm$ 74.541 χ^2 /NDF: 7138.9/103

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 304.797 $\pm$ 0.077 χ^2/NDF : 4398257.6/25

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF :3434698.7/24

Right Out: 381.356 $\pm$ 0.093 χ^2/NDF : 5457544.4/29

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

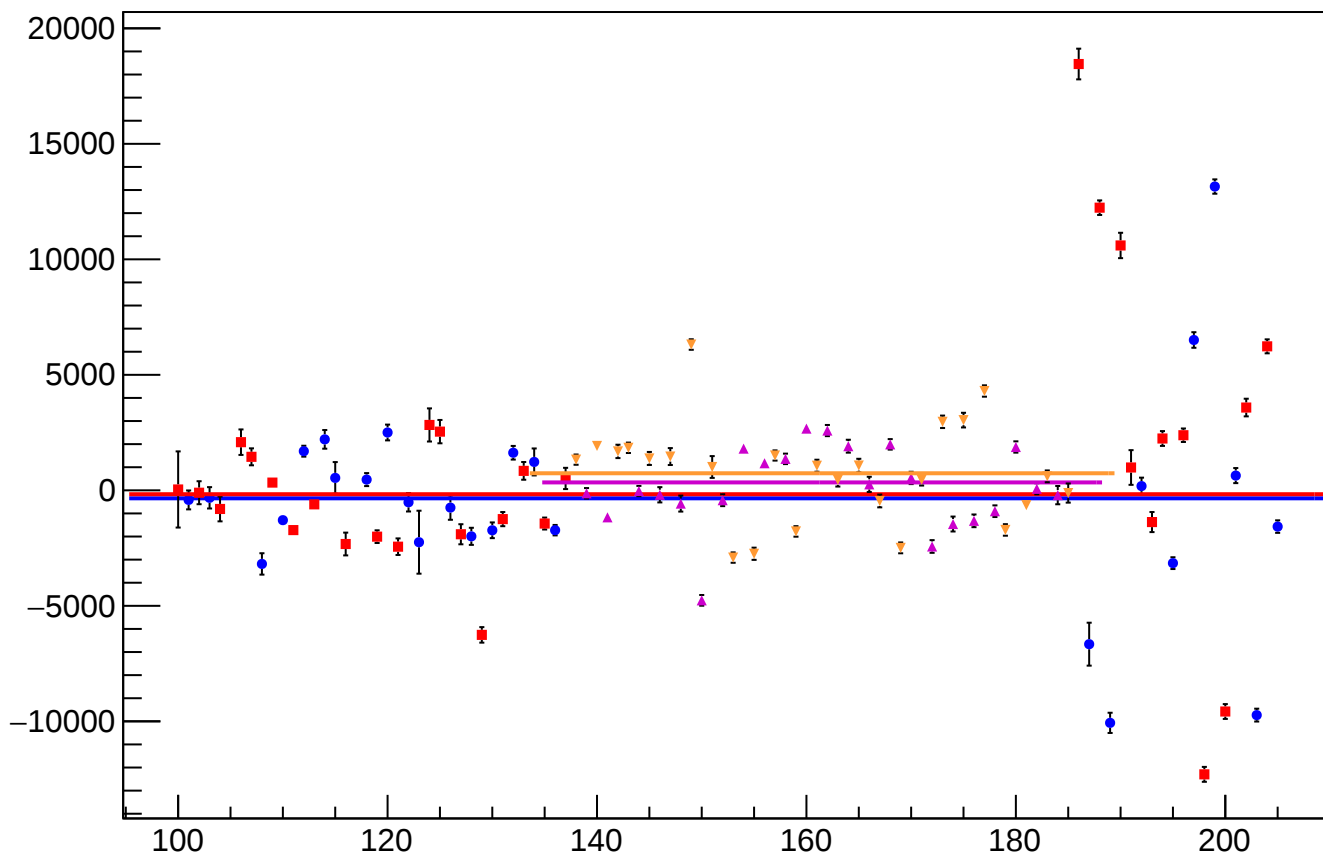
Right: 336.129 $\pm$ 0.059 χ^2/NDF : 10260136.5/55

In: 398.122 $\pm$ 0.070 χ^2/NDF :16972246.1/48

Out: 501.633 $\pm$ 0.081 χ^2/NDF :15847594.9/54

All: 442.477 $\pm$ 0.053 χ^2/NDF : 33764274.3/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -345.784 $\pm$ 65.784 χ^2/NDF : 4512.0/25

Left Out: 738.847 $\pm$ 51.649 χ^2/NDF :1935.2/24

Right Out: -168.175 $\pm$ 62.197 χ^2/NDF : 6323.6/29

Left In: 342.465 $\pm$ 50.044 χ^2/NDF :1254.9/22

Left: 534.403 $\pm$ 35.941 χ^2/NDF : 3220.5/47

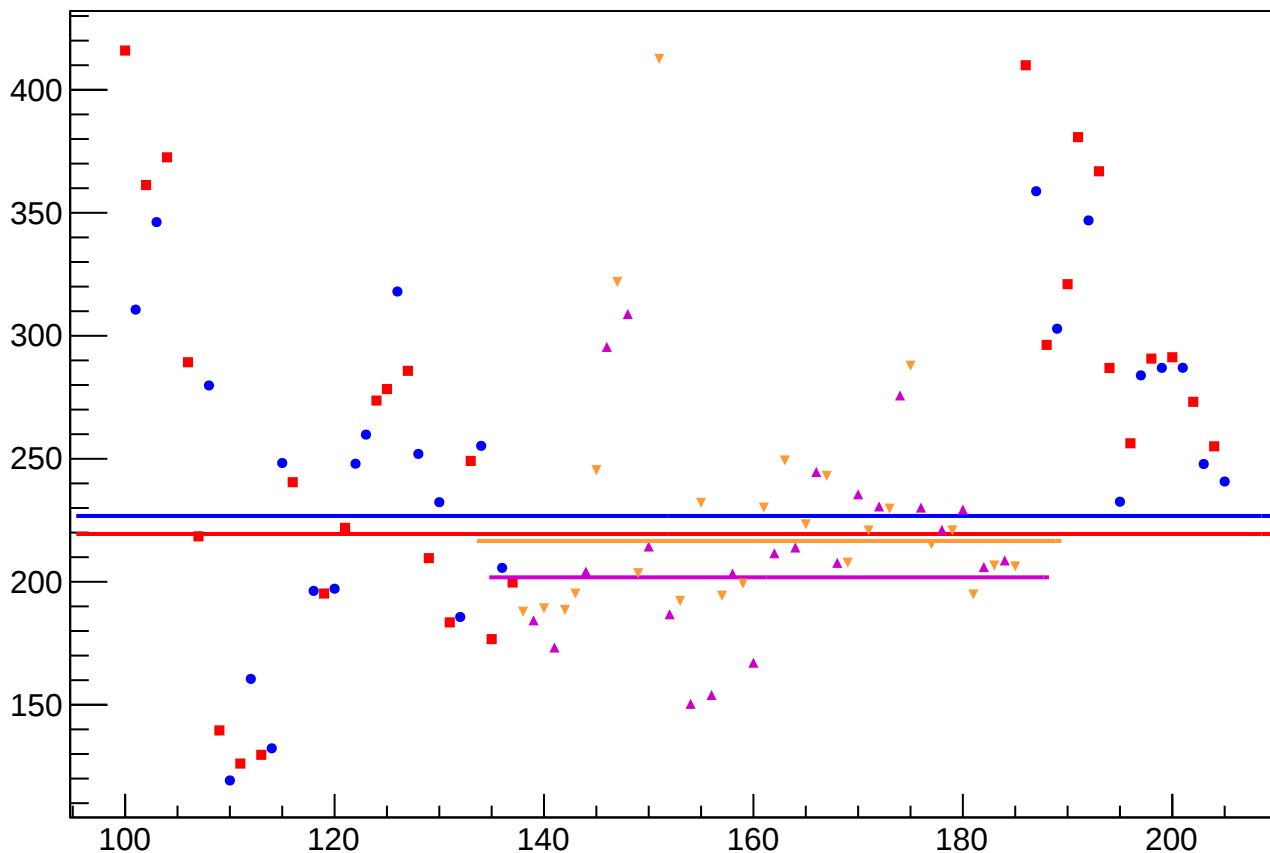
Right: -252.005 $\pm$ 45.195 χ^2/NDF : 10839.4/55

In: 90.171 $\pm$ 39.829 χ^2/NDF :5836.3/48

Out: 368.659 $\pm$ 39.735 χ^2/NDF :8384.6/54

All: 229.745 $\pm$ 28.130 χ^2/NDF : 14245.4/103

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 226.761 ± 0.047 $\chi^2/\text{NDF}: 1774844.3/25$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 219.432 ± 0.044 $\chi^2/\text{NDF}: 2832261.1/29$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

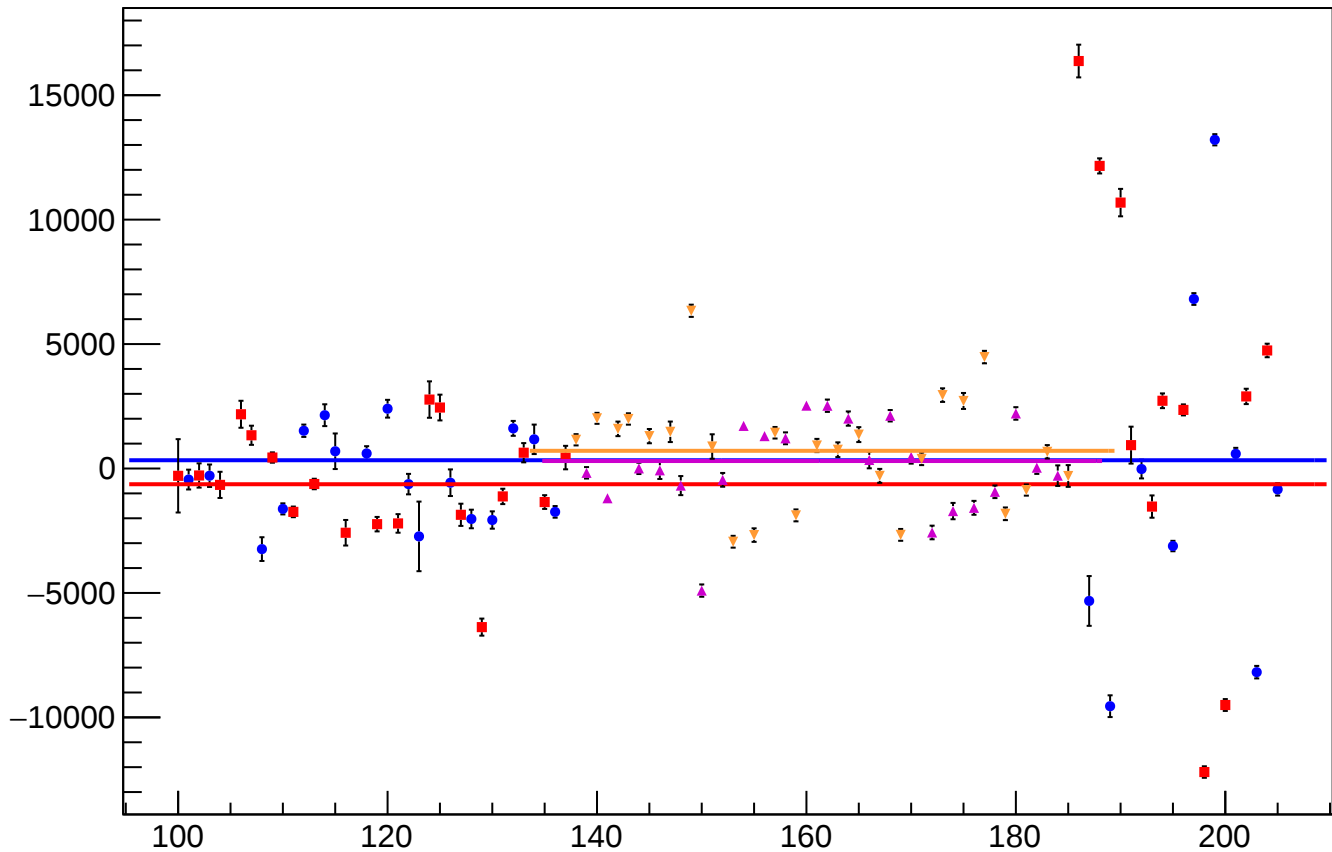
Right: 222.892 ± 0.032 $\chi^2/\text{NDF}: 4620212.1/55$

In: 210.954 ± 0.028 $\chi^2/\text{NDF}: 3044404.7/48$

Out: 217.741 ± 0.028 $\chi^2/\text{NDF}: 3720975.1/54$

All: 214.355 ± 0.020 $\chi^2/\text{NDF}: 6794487.1/103$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 332.167+/-62.094 χ^2/NDF : 6404.4/25

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -631.822+/-59.979 χ^2/NDF : 8122.4/29

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

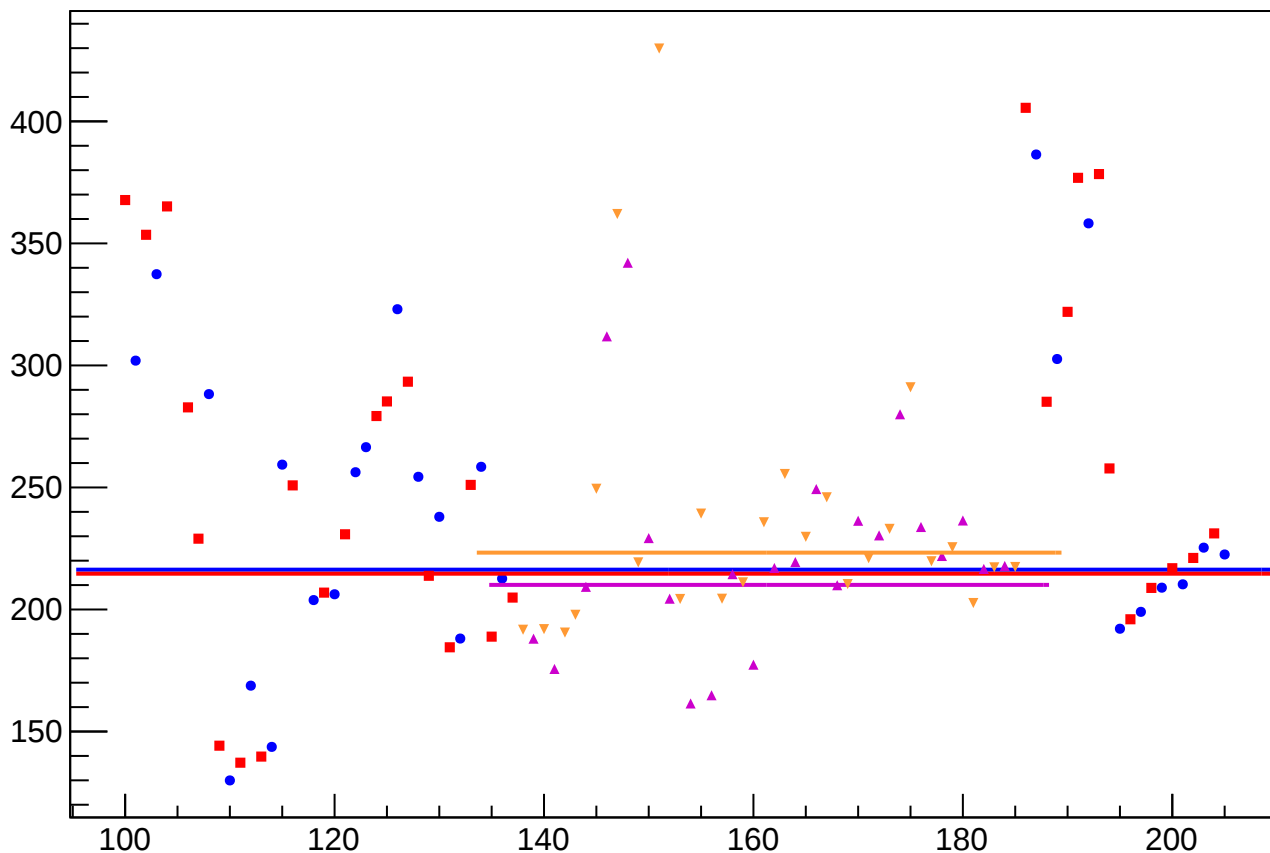
Right: -166.525+/-43.140 χ^2/NDF : 14651.5/55

In: 313.559+/-39.860 χ^2/NDF :7613.2/48

Out: 119.269+/-39.819 χ^2/NDF :10238.2/54

All: 216.314+/-28.170 χ^2/NDF : 17863.2/103

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.316 $\pm$ 0.044 χ^2 /NDF: 1345399.9/25

Left Out: 223.296 $\pm$ 0.038 χ^2 /NDF:922768.4/24

Right Out: 214.665 $\pm$ 0.042 χ^2 /NDF: 2093515.9/29

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

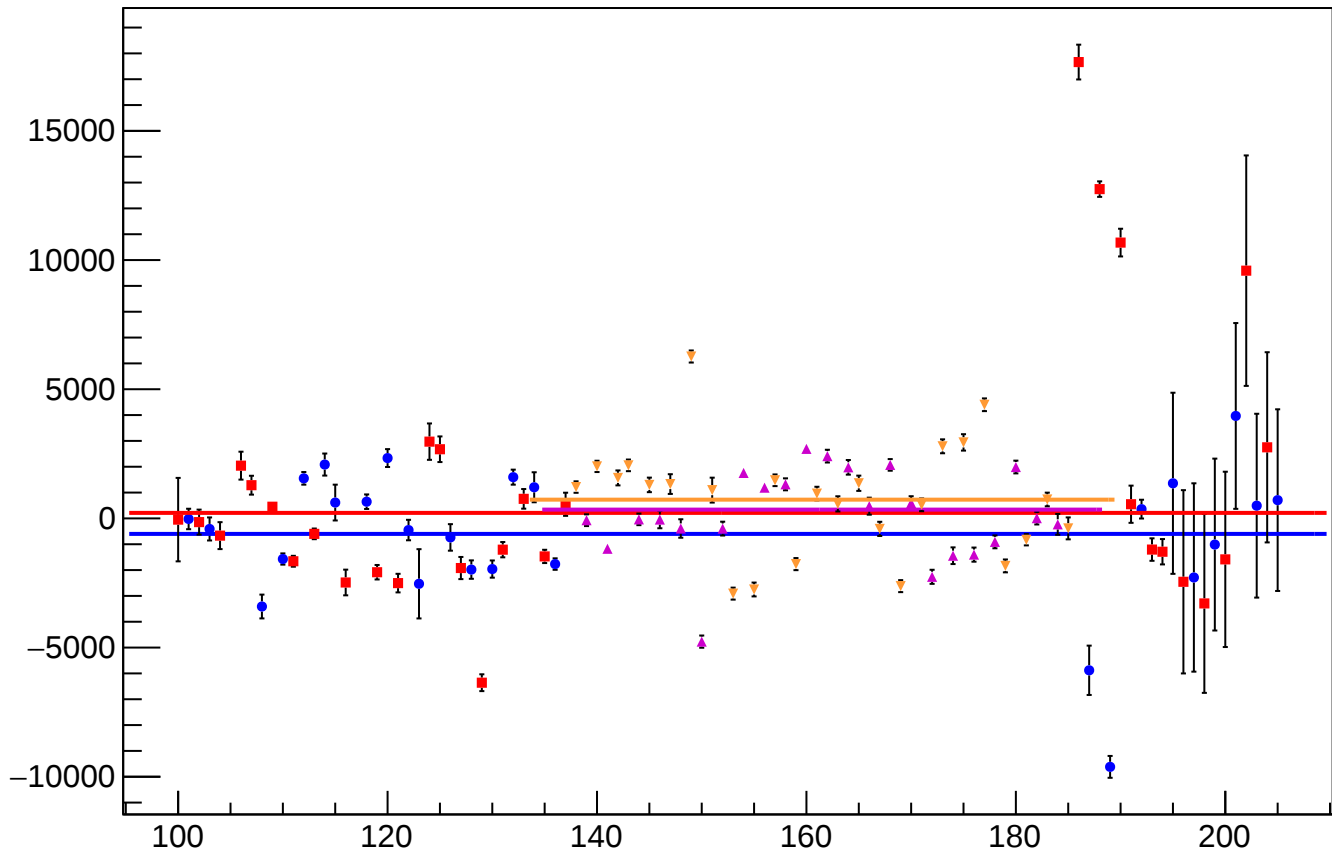
Right: 215.462 $\pm$ 0.031 χ^2 /NDF: 3439646.5/55

In: 212.649 $\pm$ 0.028 χ^2 /NDF:2372532.7/48

Out: 219.492 $\pm$ 0.028 χ^2 /NDF:3039445.6/54

All: 216.074 $\pm$ 0.020 χ^2 /NDF: 5441481.6/103

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -600.021 ± 79.079 χ^2/NDF : 894.0/25

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 213.470 ± 69.996 χ^2/NDF : 3638.4/29

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

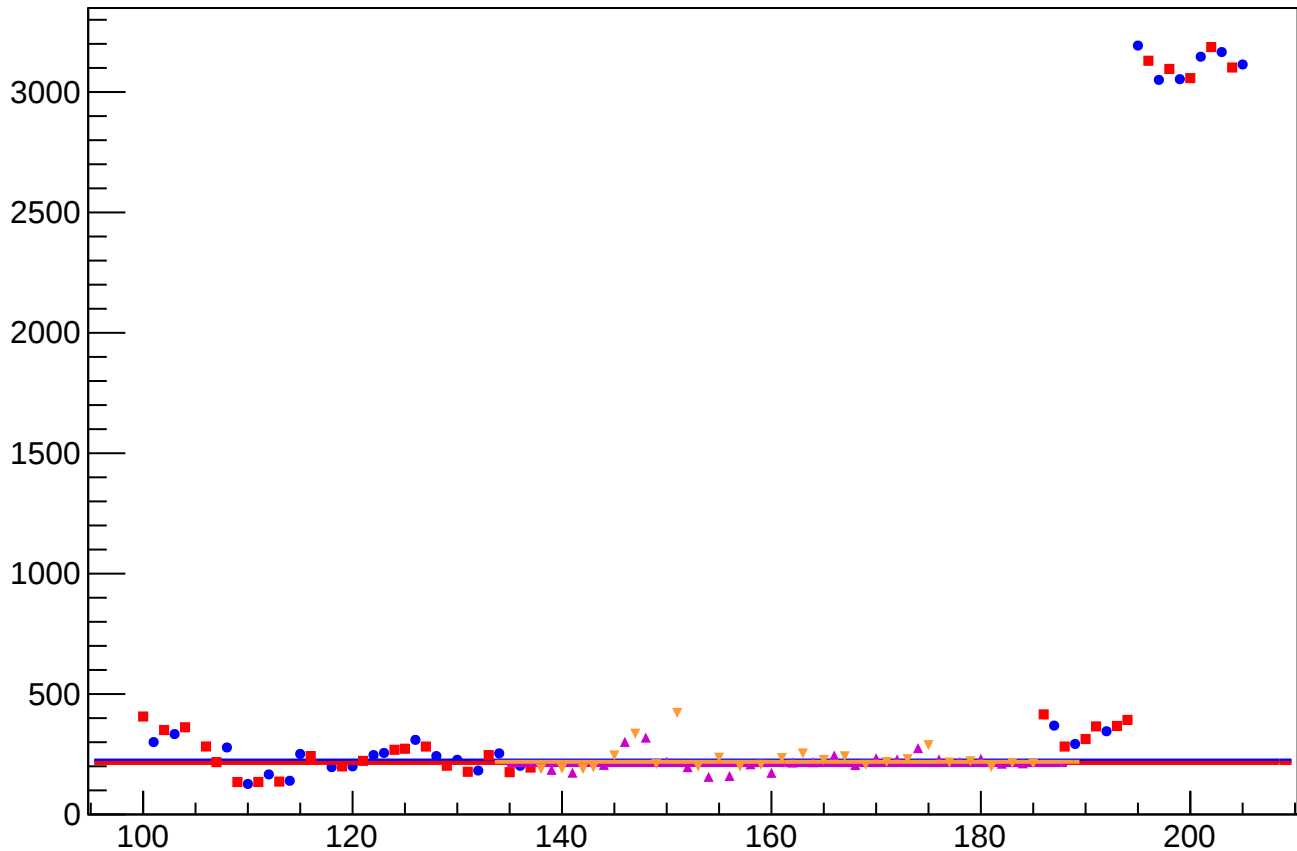
Right: -143.890 ± 52.413 χ^2/NDF : 4591.7/55

In: 65.737 ± 42.742 χ^2/NDF : 2195.9/48

Out: 542.928 ± 41.824 χ^2/NDF : 5585.6/54

All: 309.516 ± 29.893 χ^2/NDF : 7845.2/103

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 223.956+/-0.056 χ^2/NDF : 9426453.0/25

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 213.874+/-0.049 χ^2/NDF : 8691823.8/29

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

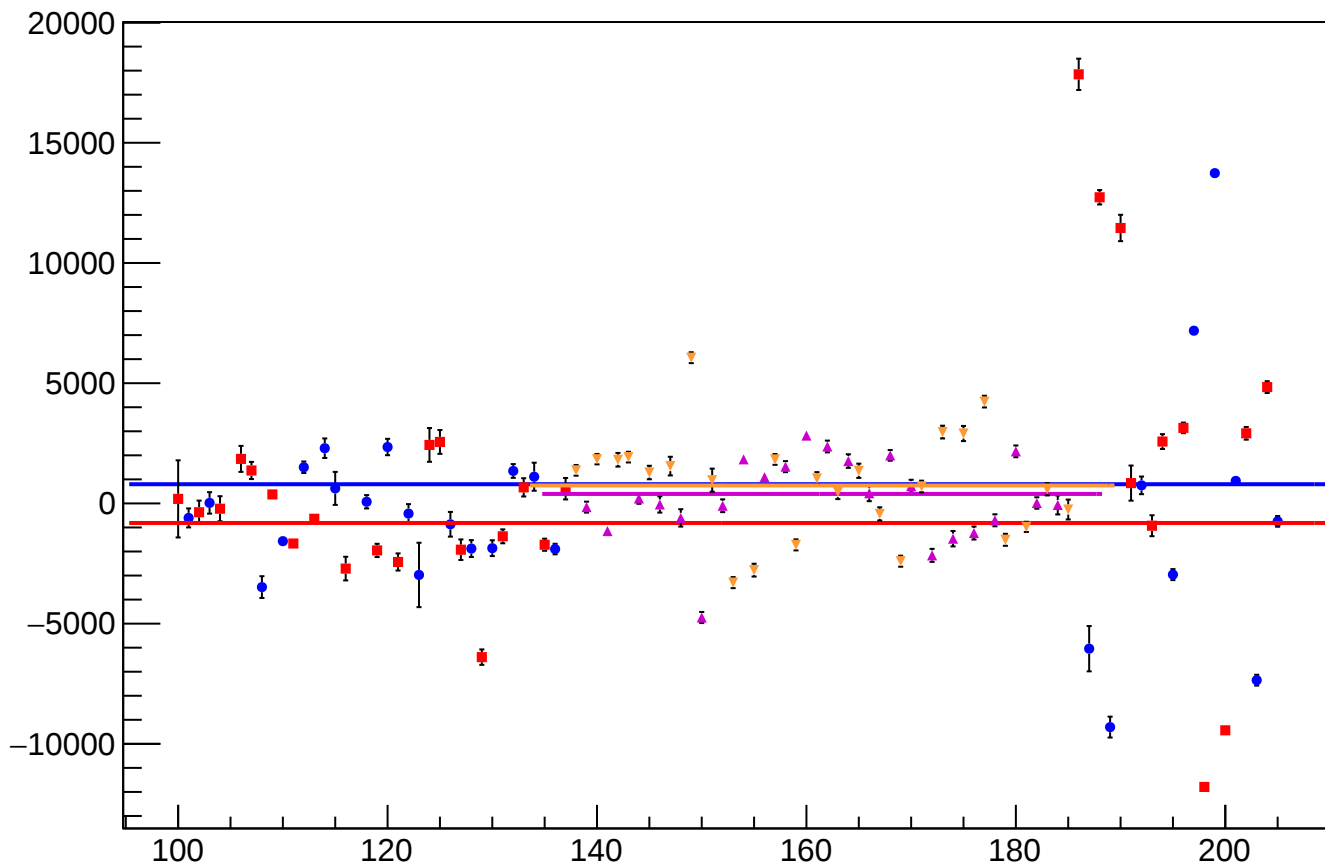
Right: 218.303+/-0.037 χ^2/NDF : 18136504.1/55

In: 210.714+/-0.030 χ^2/NDF : 10502848.0/48

Out: 217.021+/-0.030 χ^2/NDF : 9595025.2/54

All: 213.936+/-0.021 χ^2/NDF : 20120120.0/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 798.316 $\pm$ 58.093 χ^2 /NDF: 8271.2/25

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -813.335 $\pm$ 56.134 χ^2 /NDF: 9832.2/29

Left In: 394.379 $\pm$ 50.311 χ^2 /NDF:1236.4/22

Left: 565.969 $\pm$ 36.020 χ^2 /NDF: 3202.4/47

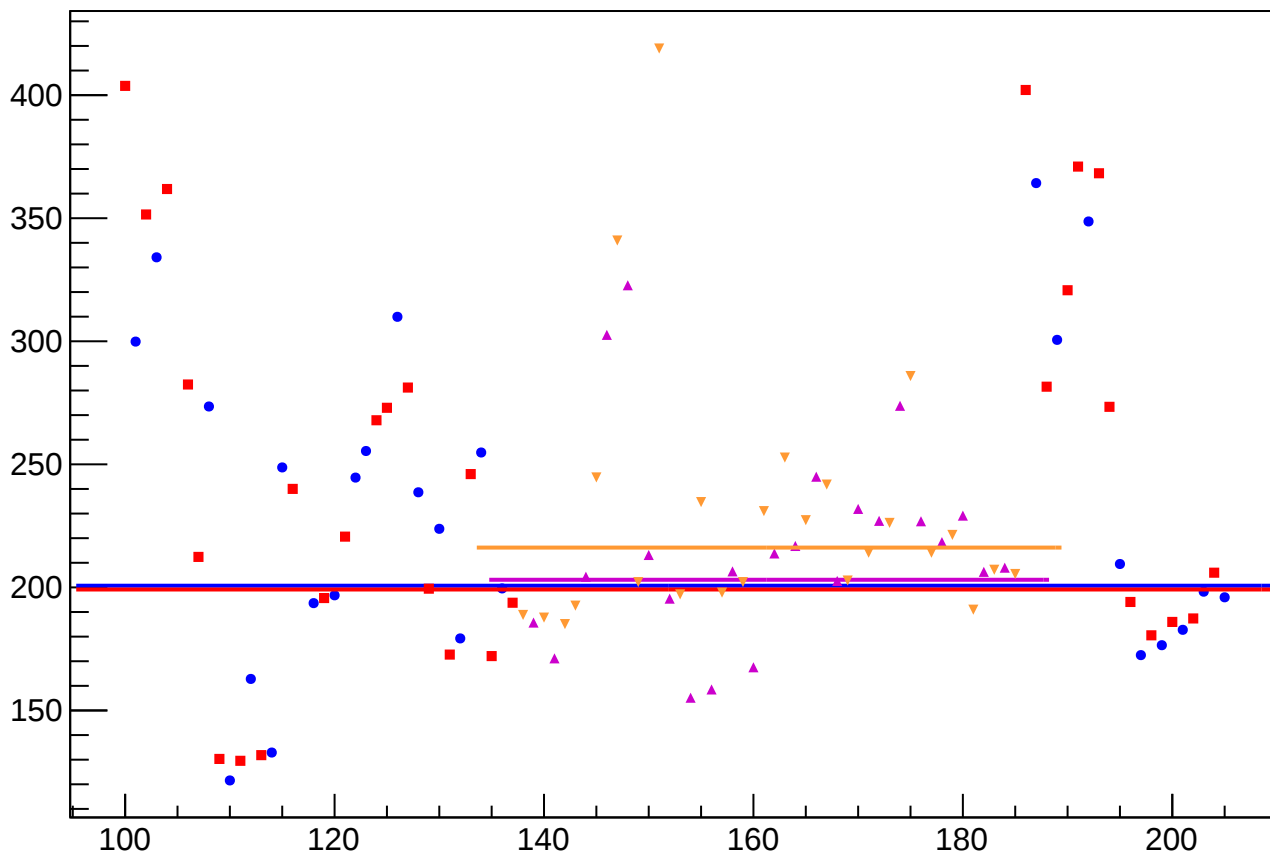
Right: -35.146 $\pm$ 40.367 χ^2 /NDF: 18501.4/55

In: 567.500 $\pm$ 38.031 χ^2 /NDF:9535.2/48

Out: 32.179 $\pm$ 37.985 χ^2 /NDF:12192.8/54

All: 299.515 $\pm$ 26.876 χ^2 /NDF: 21827.2/103

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 200.685+/-0.041 χ^2/NDF : 1519601.2/25

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 199.145+/-0.040 χ^2/NDF : 2438205.3/29

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

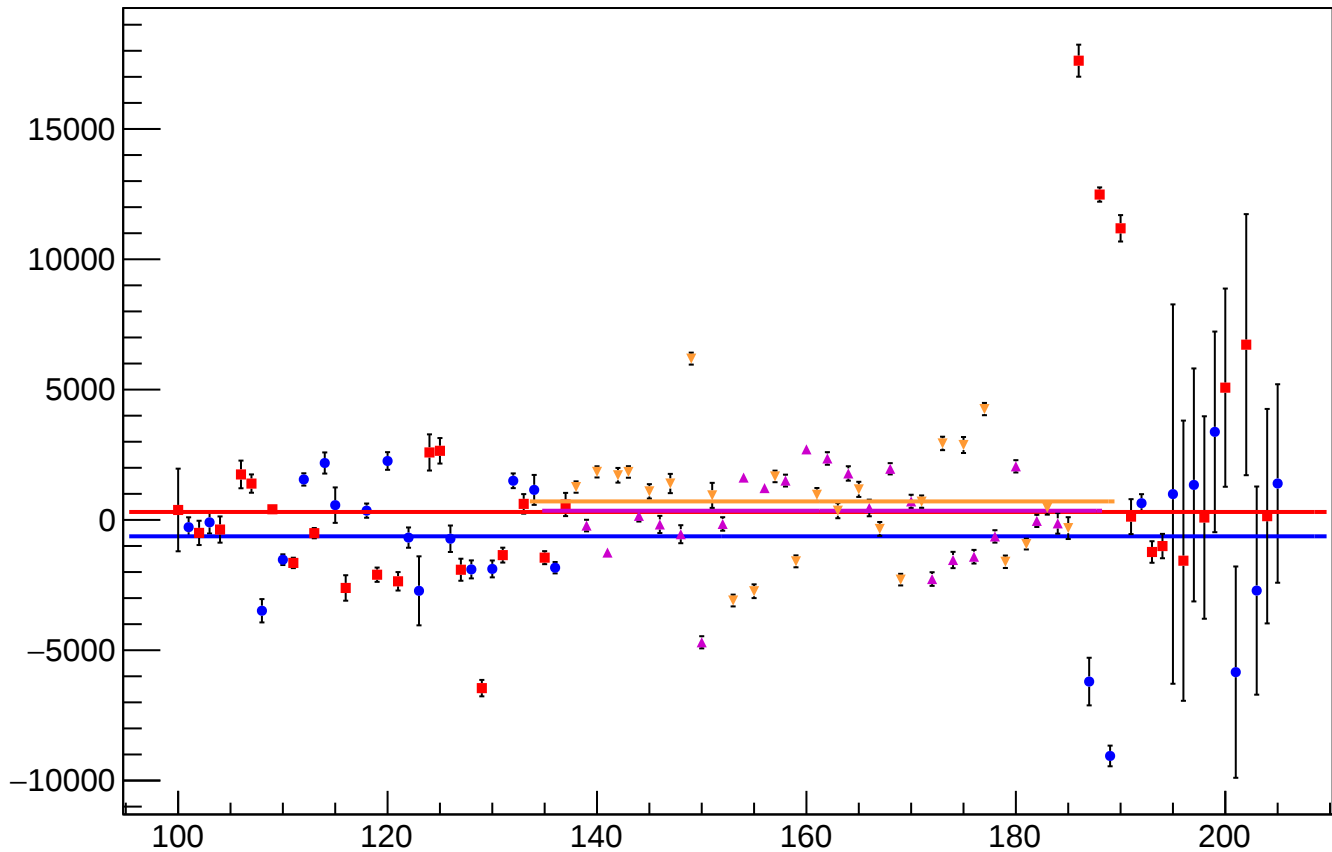
Right: 199.889+/-0.029 χ^2/NDF : 3958532.7/55

In: 202.065+/-0.027 χ^2/NDF : 2559590.9/48

Out: 208.379+/-0.027 χ^2/NDF : 3484073.5/54

All: 205.226+/-0.019 χ^2/NDF : 6071253.8/103

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.360 ± 76.446 χ^2/NDF : 918.2/25

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 305.005 ± 67.132 χ^2/NDF : 4164.5/29

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

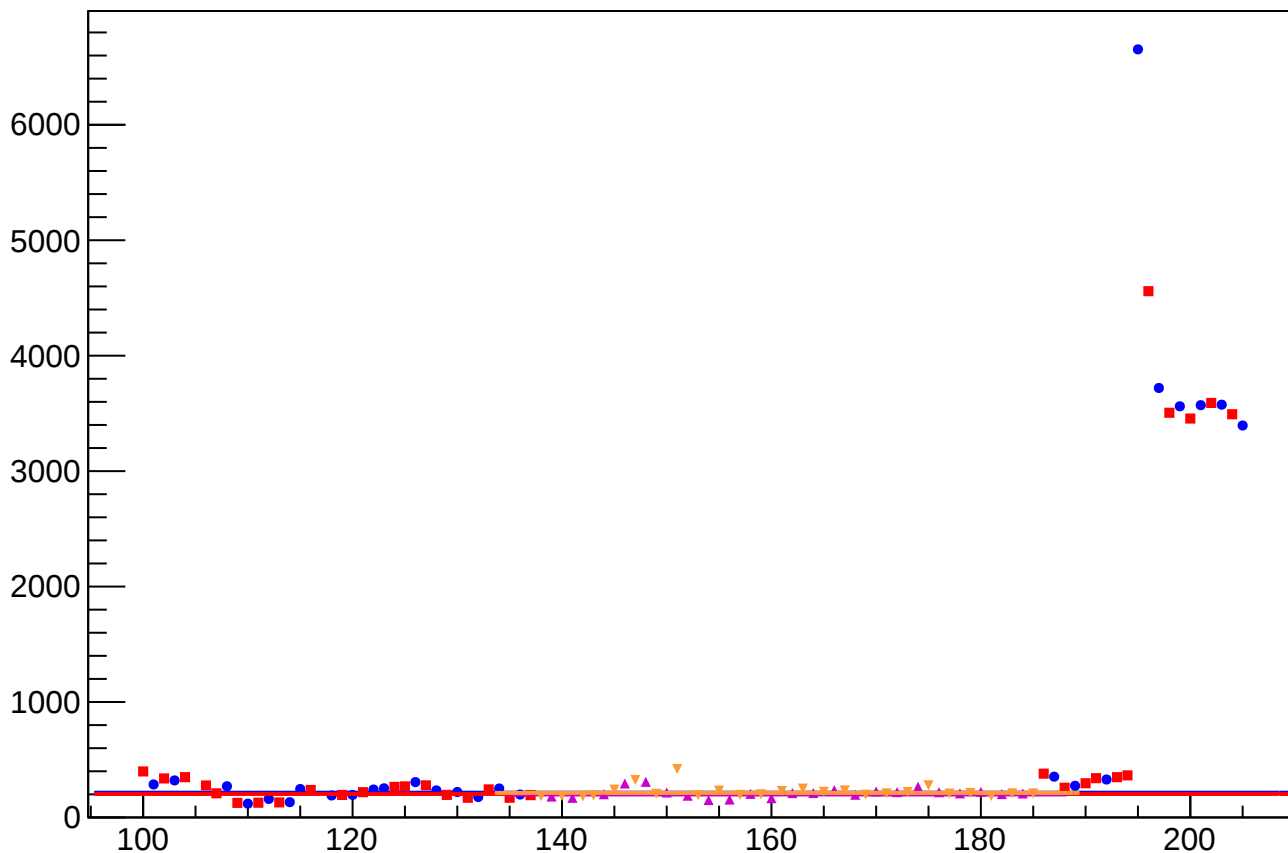
Right: -101.818 ± 50.443 χ^2/NDF : 5167.1/55

In: 63.916 ± 41.441 χ^2/NDF : 2267.7/48

Out: 562.868 ± 40.484 χ^2/NDF : 6120.0/54

All: 319.221 ± 28.959 χ^2/NDF : 8461.9/103

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 214.367+/-0.054 χ^2/NDF : 9803965.3/25

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 203.651+/-0.047 χ^2/NDF : 8829807.4/29

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

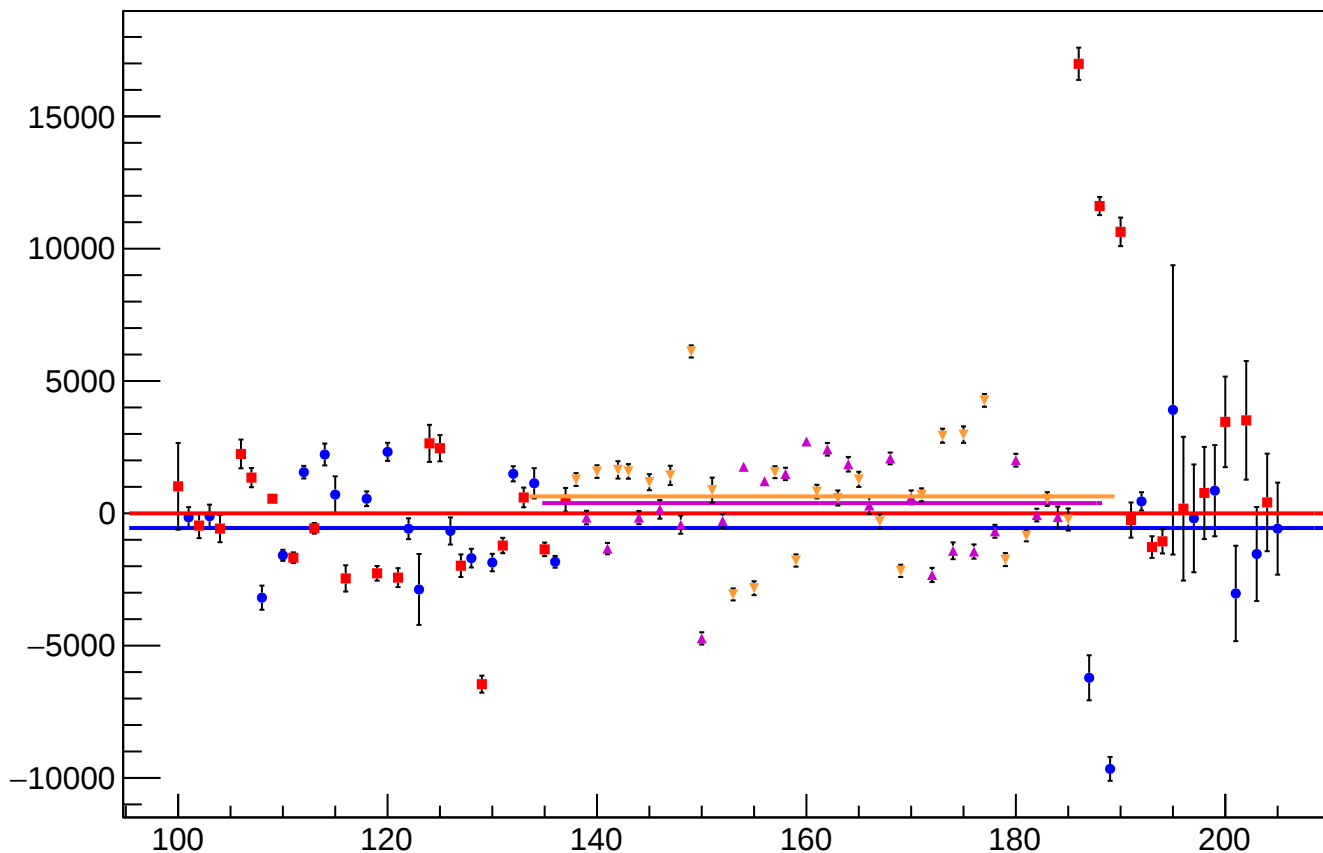
Right: 208.317+/-0.036 χ^2/NDF : 18655960.7/55

In: 203.616+/-0.029 χ^2/NDF : 10845916.3/48

Out: 209.421+/-0.029 χ^2/NDF : 9769249.4/54

All: 206.586+/-0.020 χ^2/NDF : 20635244.5/10

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -555.589 ± 77.507 χ^2/NDF : 862.5/25

Left Out: 639.995 ± 52.708 χ^2/NDF : 1859.2/24

Right Out: -1.797 ± 68.894 χ^2/NDF : 3102.7/29

Left In: 386.248 ± 50.994 χ^2/NDF : 1238.0/22

Left: 508.926 ± 36.649 χ^2/NDF : 3109.2/47

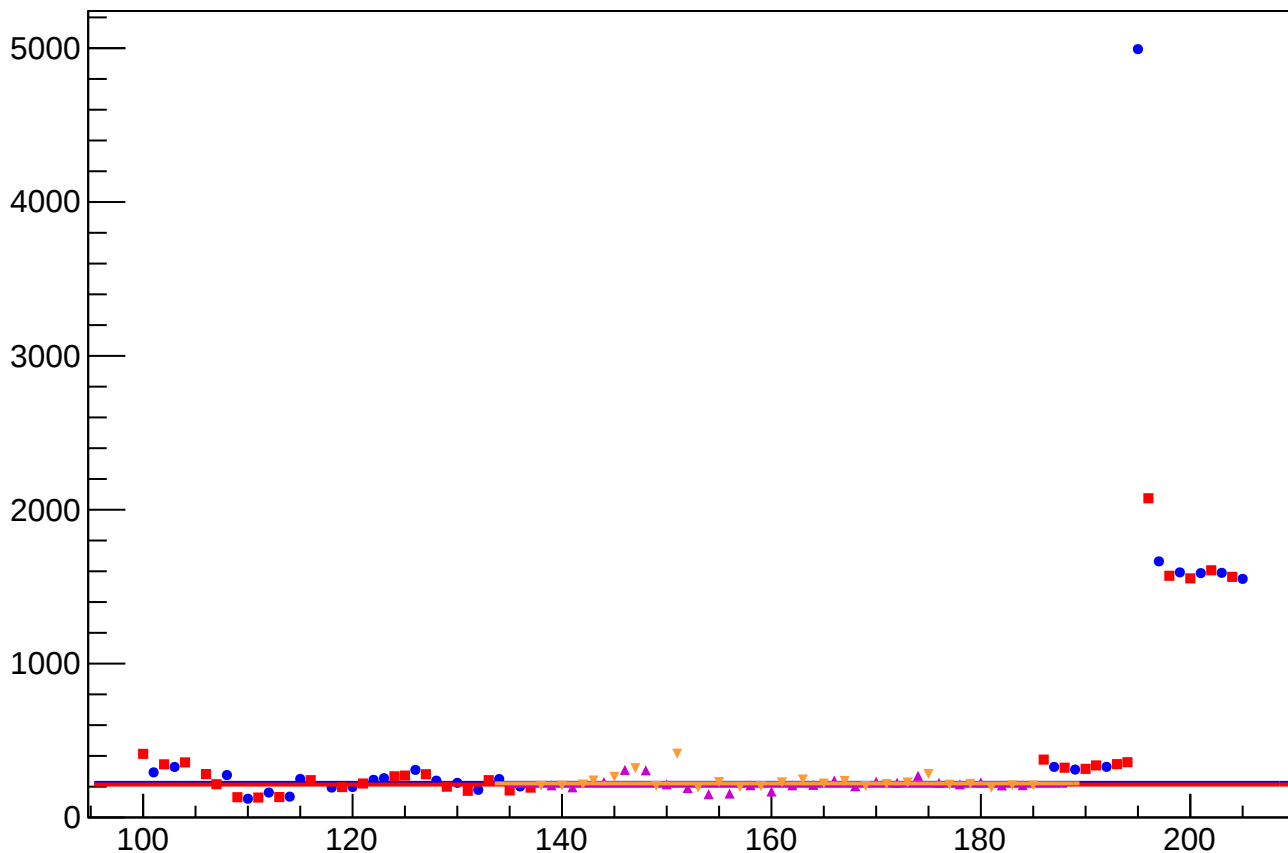
Right: -246.224 ± 51.492 χ^2/NDF : 3993.8/55

In: 101.723 ± 42.600 χ^2/NDF : 2203.6/48

Out: 403.034 ± 41.862 χ^2/NDF : 5016.7/54

All: 255.012 ± 29.859 χ^2/NDF : 7245.8/103

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 224.875 $\pm$ 0.055 χ^2 /NDF: 8649760.8/25

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 213.748 $\pm$ 0.049 χ^2 /NDF: 7750096.0/29

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

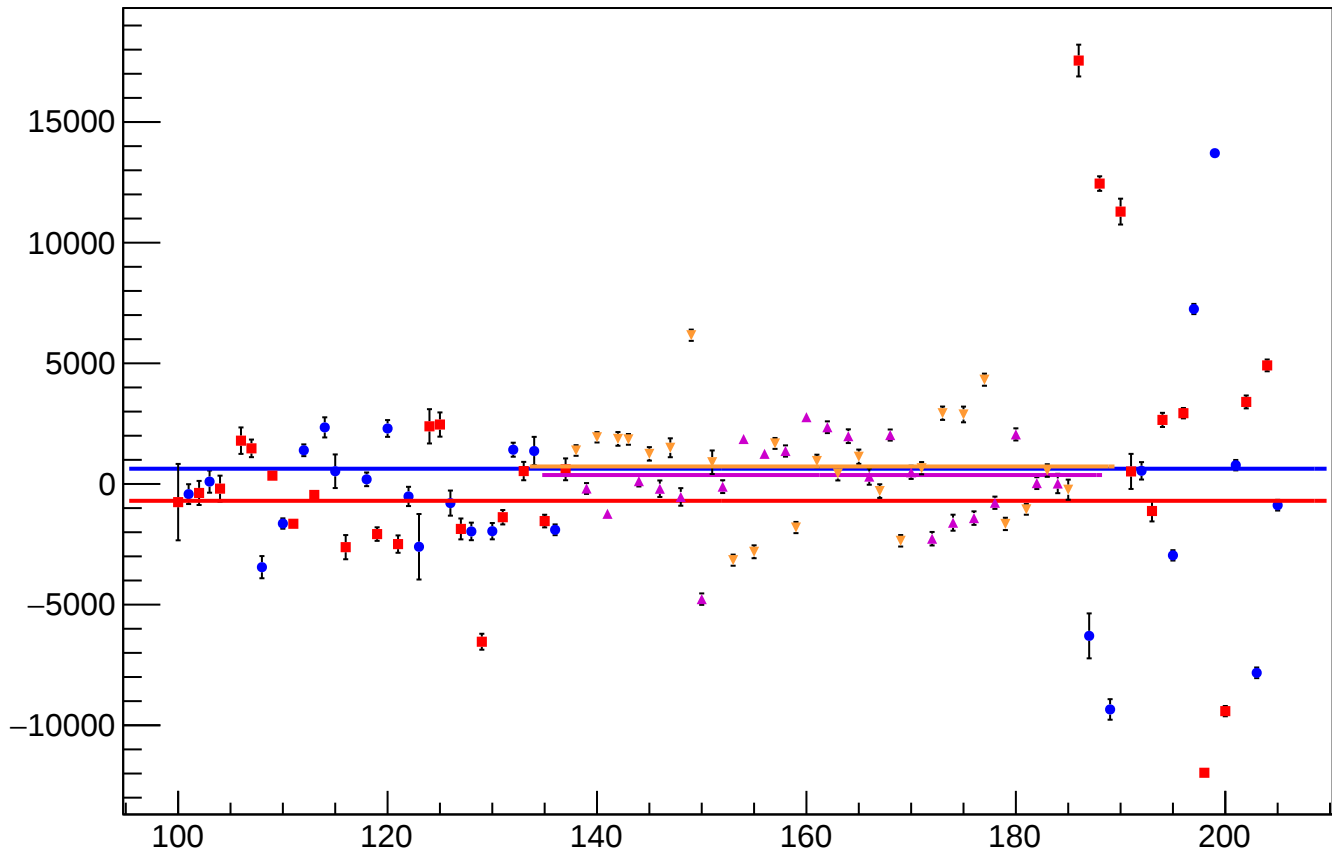
Right: 218.659 $\pm$ 0.036 χ^2 /NDF: 16422886.2/55

In: 211.565 $\pm$ 0.030 χ^2 /NDF: 9729180.3/48

Out: 218.573 $\pm$ 0.030 χ^2 /NDF: 8543486.4/54

All: 215.130 $\pm$ 0.021 χ^2 /NDF: 18300205.9/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 632.060 ± 58.692 $\chi^2/\text{NDF}: 8282.7/25$

Left Out: 725.250 ± 52.307 $\chi^2/\text{NDF}: 1883.1/24$

Right Out: -697.733 ± 57.044 $\chi^2/\text{NDF}: 9513.9/29$

Left In: 370.408 ± 50.884 $\chi^2/\text{NDF}: 1223.2/22$

Left: 542.938 ± 36.473 $\chi^2/\text{NDF}: 3129.9/47$

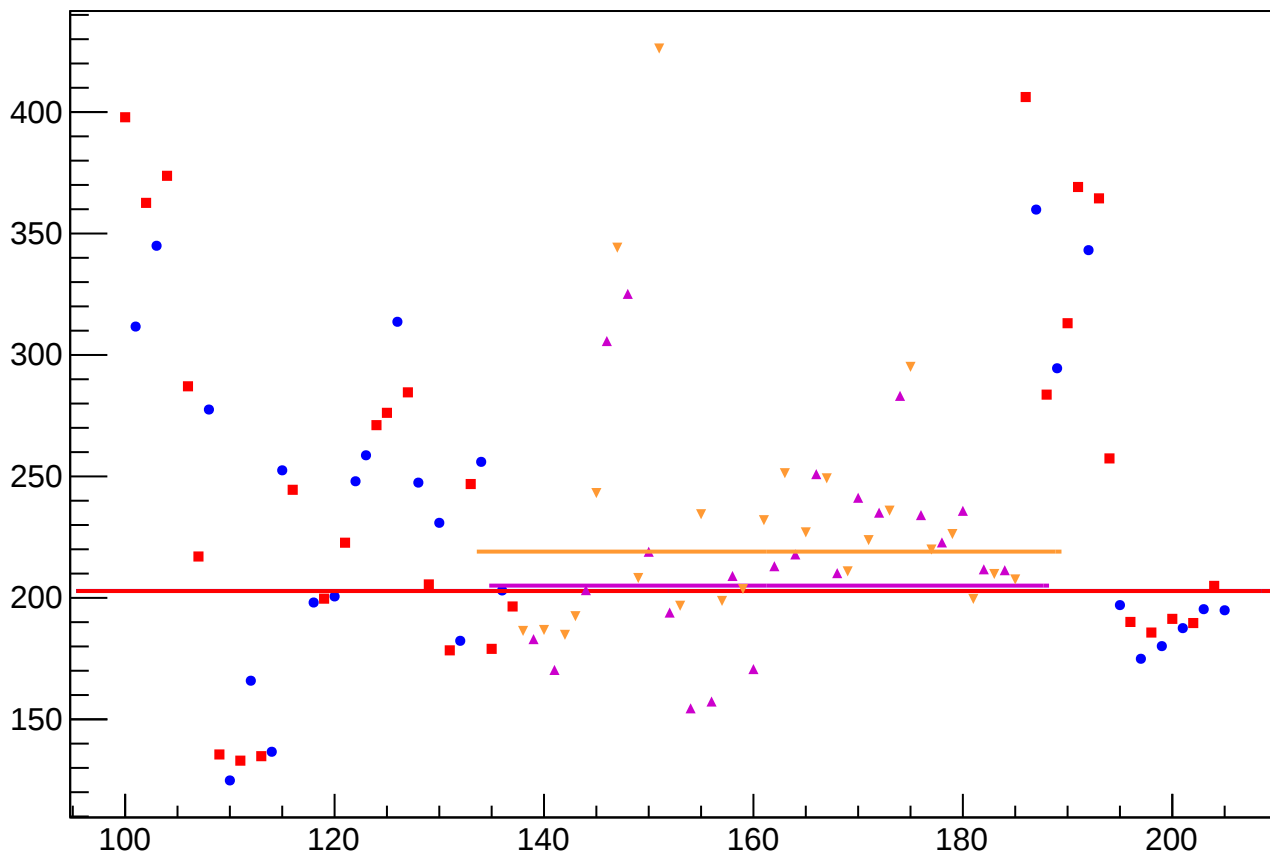
Right: -51.772 ± 40.906 $\chi^2/\text{NDF}: 18060.7/55$

In: 482.684 ± 38.447 $\chi^2/\text{NDF}: 9517.3/48$

Out: 75.283 ± 38.553 $\chi^2/\text{NDF}: 11735.1/54$

All: 279.543 ± 27.223 $\chi^2/\text{NDF}: 21308.3/103$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 202.852 ± 0.042 χ^2/NDF : 1475018.3/25

Left Out: 219.049 ± 0.037 χ^2/NDF : 975564.4/24

Right Out: 202.809 ± 0.040 χ^2/NDF : 2287124.4/29

Left In: 205.046 ± 0.036 χ^2/NDF : 1144197.1/22

Left: 211.855 ± 0.026 χ^2/NDF : 2193394.9/47

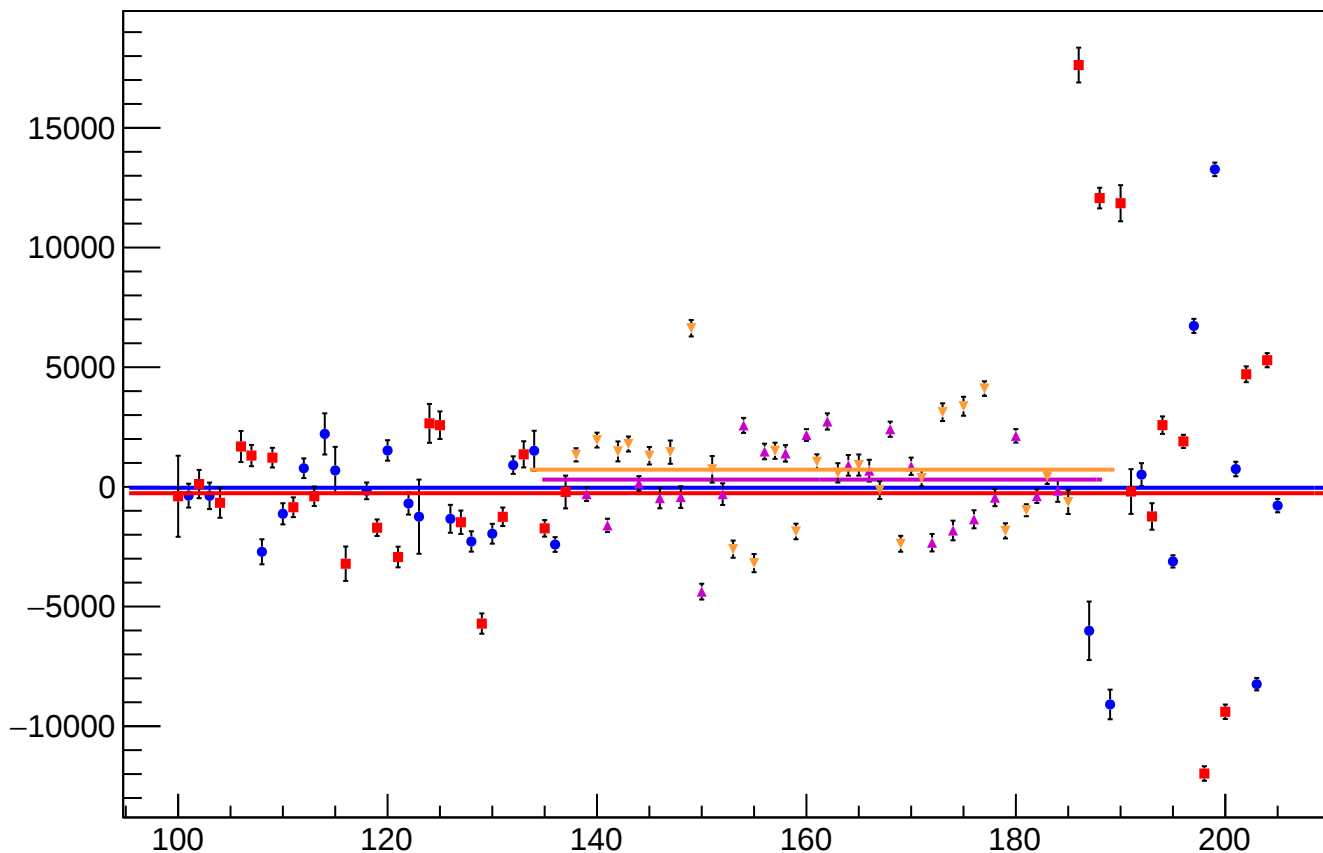
Right: 202.830 ± 0.029 χ^2/NDF : 3762143.2/55

In: 204.105 ± 0.027 χ^2/NDF : 2620812.0/48

Out: 211.631 ± 0.027 χ^2/NDF : 3350739.1/54

All: 207.858 ± 0.019 χ^2/NDF : 6009767.5/103

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -36.874 ± 78.666 χ^2/NDF : 4289.3/25

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: -264.605 ± 79.596 χ^2/NDF : 5131.0/29

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

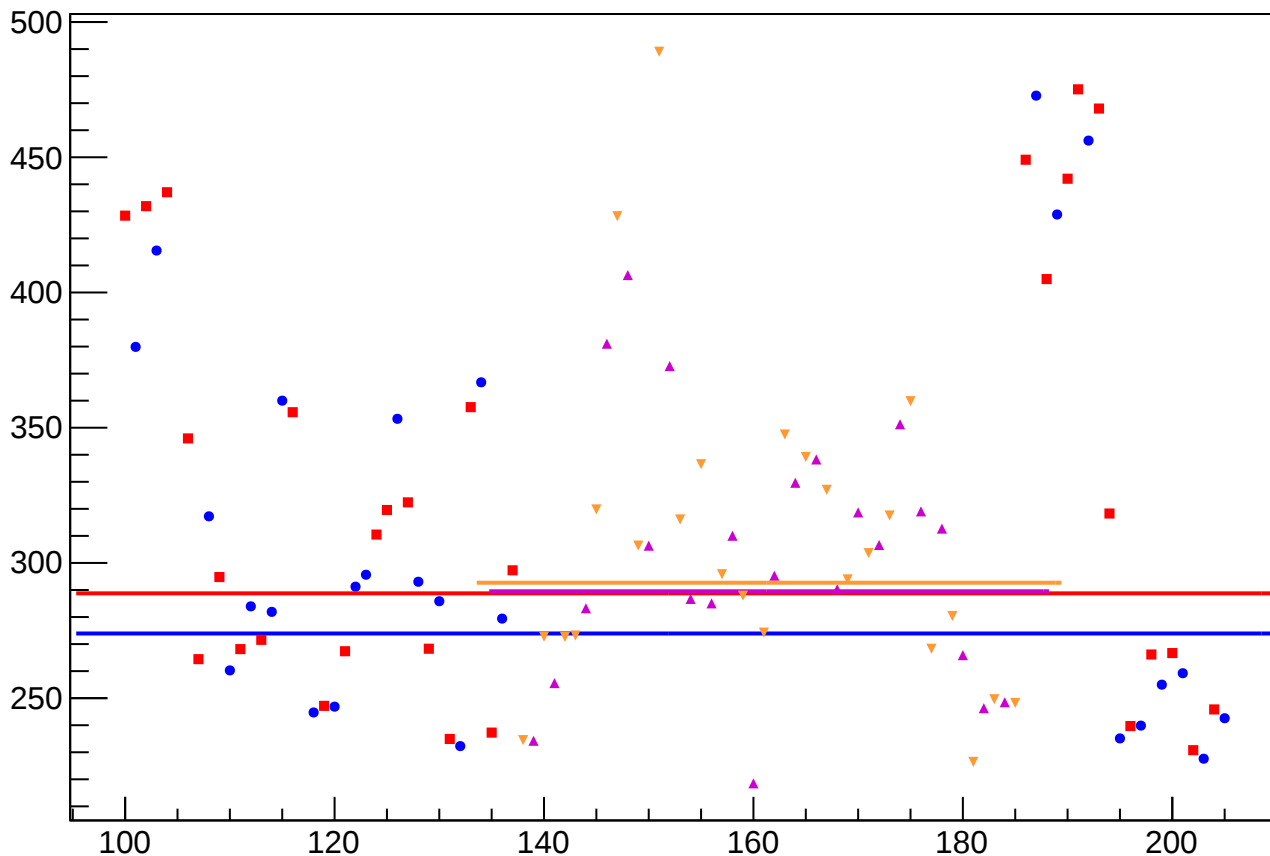
Right: -149.401 ± 55.951 χ^2/NDF : 9424.4/55

In: 151.167 ± 52.690 χ^2/NDF : 4943.2/48

Out: 292.632 ± 52.395 χ^2/NDF : 6236.0/54

All: 222.297 ± 37.153 χ^2/NDF : 11182.8/103

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 273.914 $\pm$ 0.056 χ^2 /NDF: 1012492.9/25

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 288.754 $\pm$ 0.056 χ^2 /NDF: 1276059.8/29

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

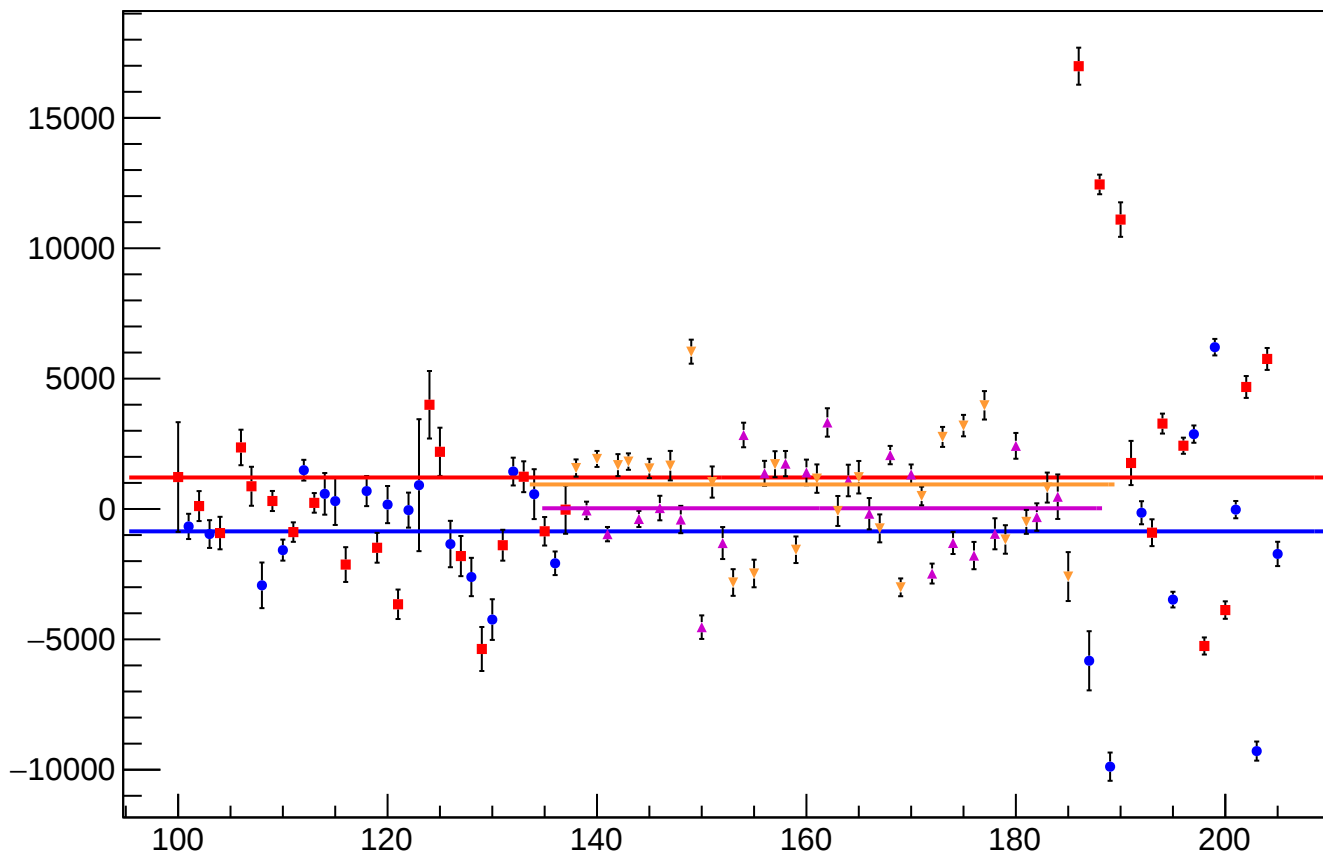
Right: 281.247 $\pm$ 0.040 χ^2 /NDF: 2323723.6/55

In: 282.520 $\pm$ 0.037 χ^2 /NDF: 1833803.2/48

Out: 290.982 $\pm$ 0.037 χ^2 /NDF: 2204018.4/54

All: 286.775 $\pm$ 0.026 χ^2 /NDF: 4063762.3/103

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -857.984 $\pm$ 96.908 χ^2 /NDF: 1650.7/25

Left Out: 941.598 $\pm$ 89.119 χ^2 /NDF:544.6/24

Right Out: 1208.826 $\pm$ 92.214 χ^2 /NDF: 2777.8/29

Left In: 27.763 $\pm$ 92.331 χ^2 /NDF:362.5/22

Left: 500.853 $\pm$ 64.122 χ^2 /NDF: 957.8/47

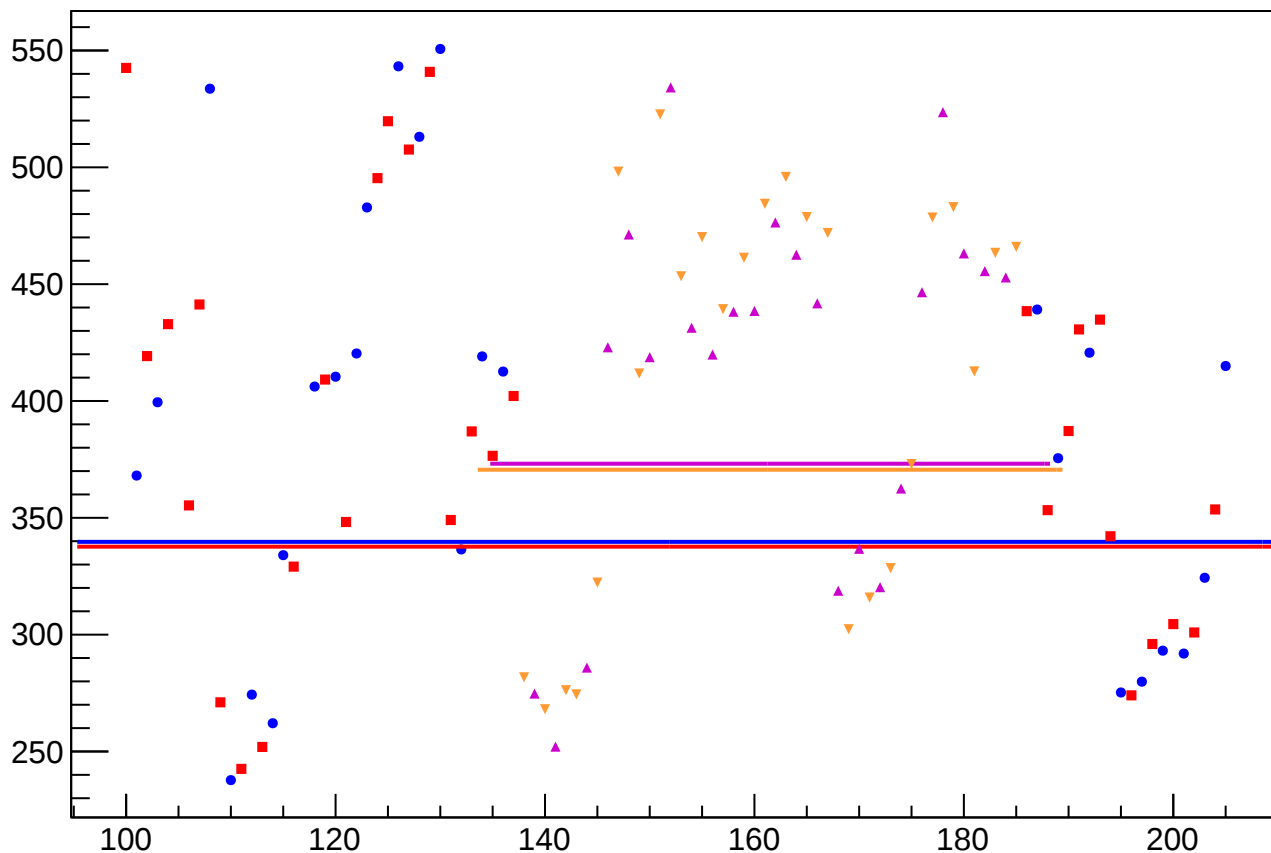
Right: 226.687 $\pm$ 66.803 χ^2 /NDF: 4667.3/55

In: -393.702 $\pm$ 66.847 χ^2 /NDF:2057.0/48

Out: 1070.653 $\pm$ 64.083 χ^2 /NDF:3326.8/54

All: 369.381 $\pm$ 46.260 χ^2 /NDF: 5633.8/103

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 339.718 $\pm$ 0.069 χ^2 /NDF: 1228908.2/25

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF: 1878118.9/24

Right Out: 337.657 $\pm$ 0.065 χ^2 /NDF: 1131380.7/29

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF: 1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2 /NDF: 3515172.3/47

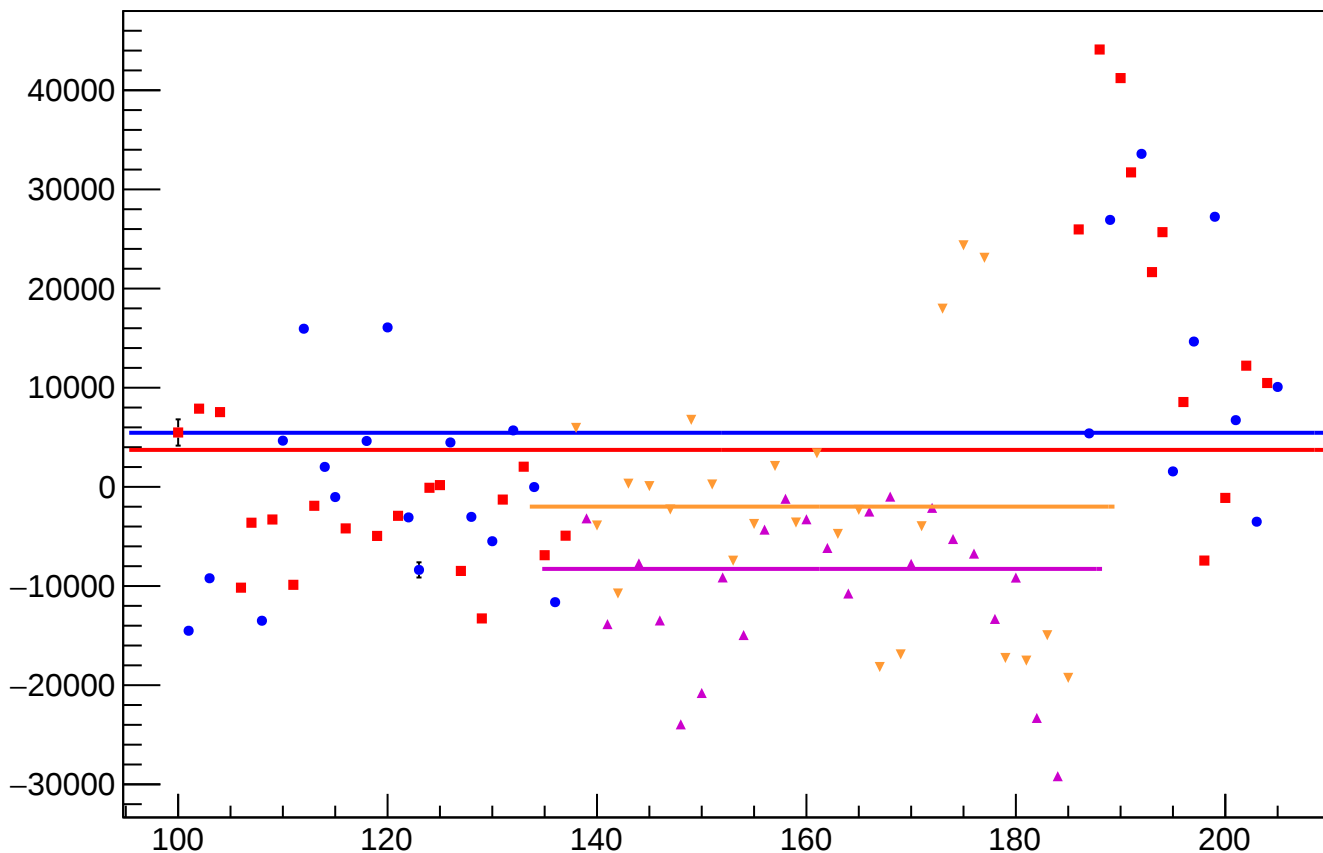
Right: 338.636 $\pm$ 0.047 χ^2 /NDF: 2360763.3/55

In: 357.247 $\pm$ 0.047 χ^2 /NDF: 2990005.7/48

Out: 354.680 $\pm$ 0.045 χ^2 /NDF: 3141314.0/54

All: 355.910 $\pm$ 0.033 χ^2 /NDF: 6132856.9/103

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5454.827 $\pm$ 43.477 χ^2 /NDF: 86952.7/25

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 3728.782 $\pm$ 41.326 χ^2 /NDF: 132938.1/29

Left In: -8273.228 $\pm$ 44.301 χ^2 /NDF:22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2 /NDF: 97123.2/47

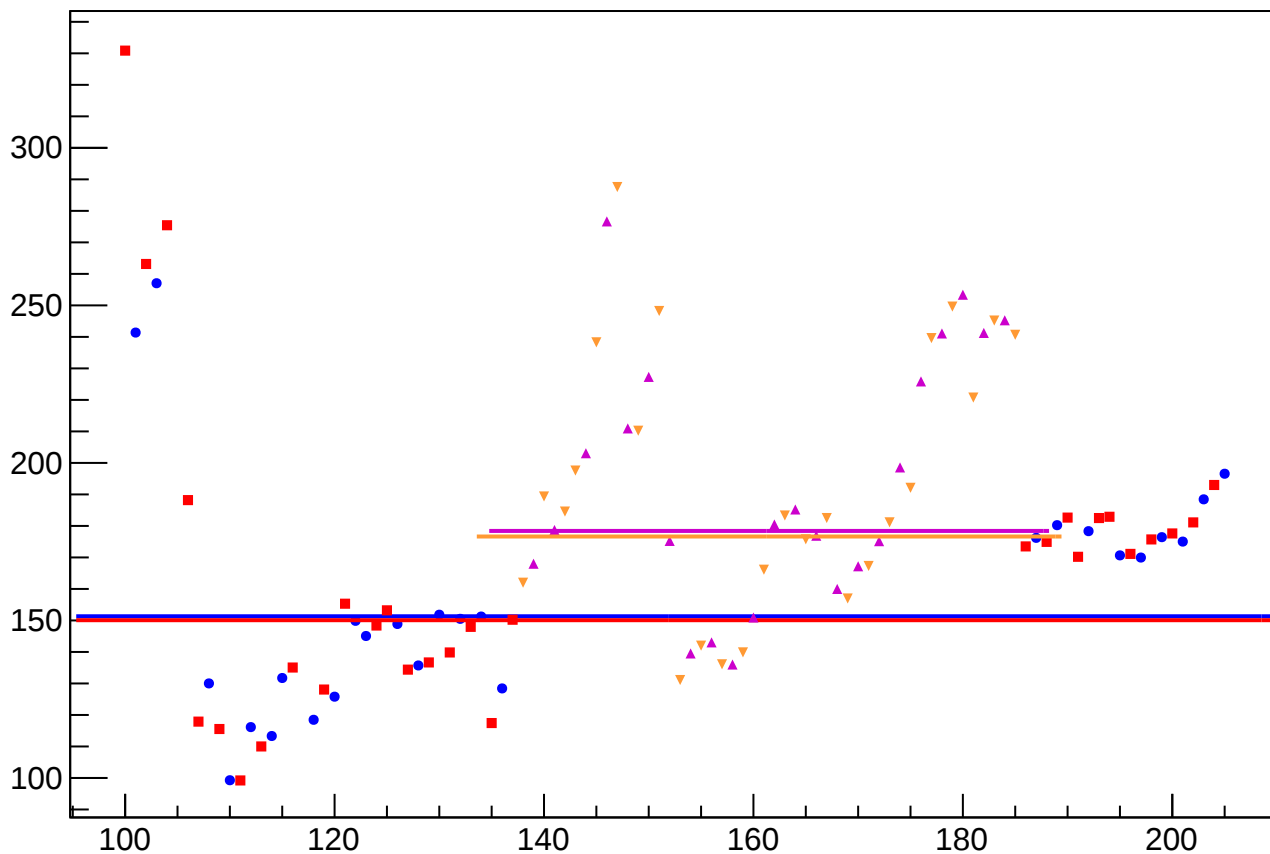
Right: 4548.057 $\pm$ 29.954 χ^2 /NDF: 220718.7/55

In: -1280.336 $\pm$ 31.030 χ^2 /NDF:158737.1/48

Out: 943.643 $\pm$ 29.604 χ^2 /NDF:206033.6/54

All: -116.046 $\pm$ 21.419 χ^2 /NDF: 367459.8/10

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 151.325+/-0.031 χ^2/NDF : 1152437.6/25

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 150.078+/-0.029 χ^2/NDF : 1426076.3/29

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

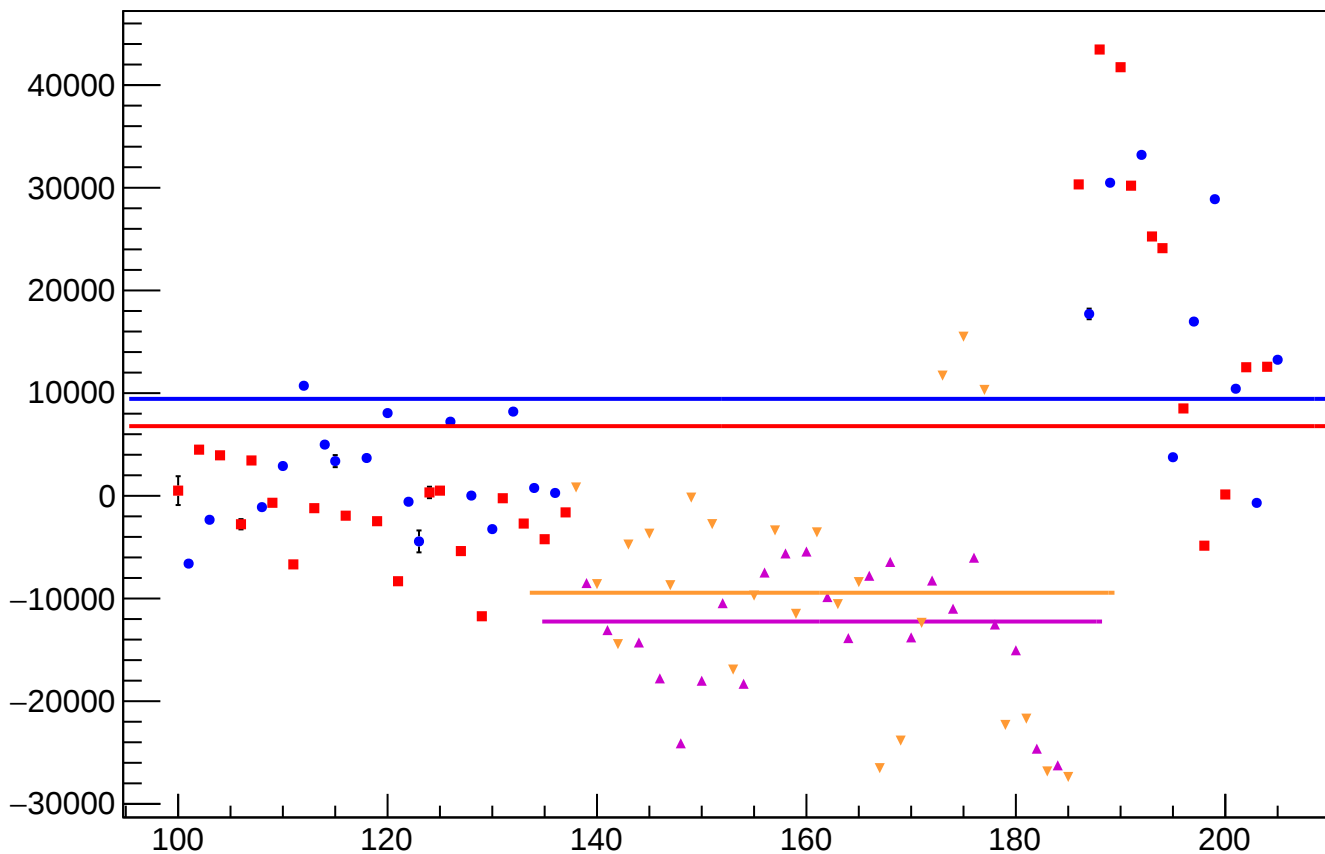
Right: 150.670+/-0.021 χ^2/NDF : 2579378.0/55

In: 164.615+/-0.022 χ^2/NDF :2827072.2/48

Out: 163.011+/-0.021 χ^2/NDF :3379399.9/54

All: 163.775+/-0.015 χ^2/NDF : 6209271.0/103

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9442.233+/-49.643

χ^2/NDF : 48757.1/25

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8043.641+/-34.159

χ^2/NDF : 153189.5/55

Right Out: 6785.932+/-47.076

χ^2/NDF : 102925.0/29

In: -2715.464+/-32.904

χ^2/NDF : 172348.8/48

Out: -1595.768+/-32.729

χ^2/NDF : 226503.1/54

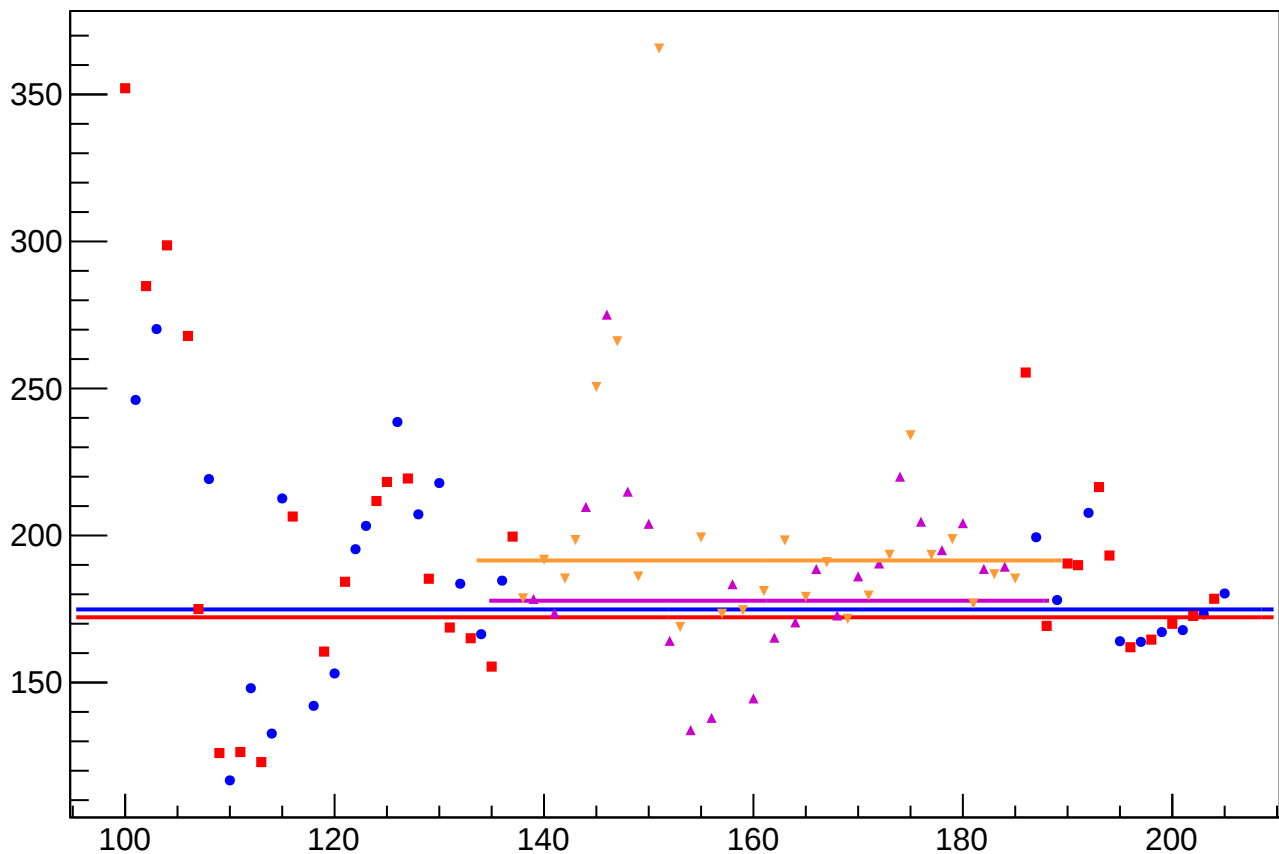
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2152.625+/-23.205

χ^2/NDF : 399434.0/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.854+/-0.035 χ^2/NDF : 759679.9/25

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 172.183+/-0.033 χ^2/NDF : 1125496.9/29

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

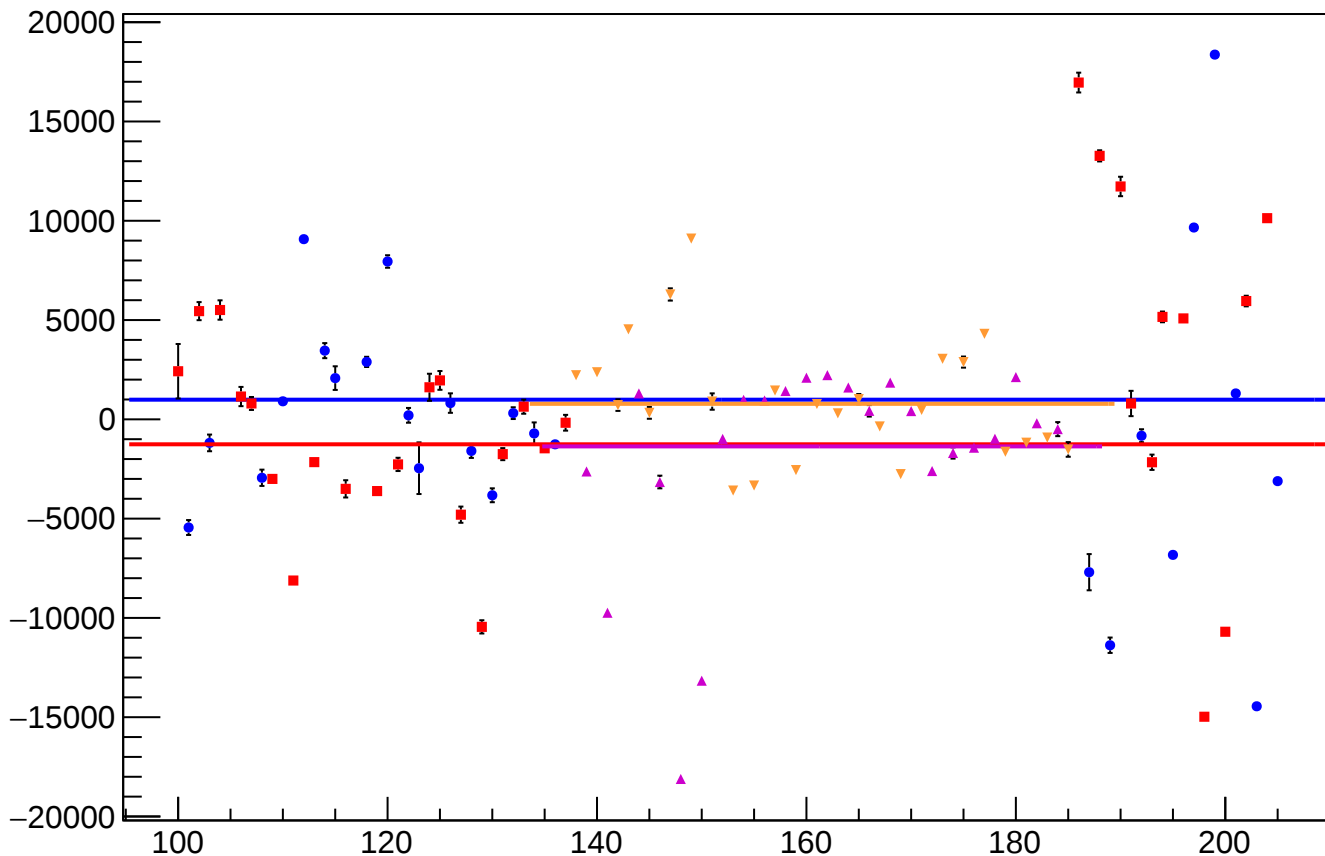
Right: 173.448+/-0.024 χ^2/NDF : 1888225.1/55

In: 176.518+/-0.023 χ^2/NDF : 1626180.2/48

Out: 182.167+/-0.023 χ^2/NDF : 2026844.3/54

All: 179.357+/-0.016 χ^2/NDF : 3682653.4/103

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 989.600+/-55.798 χ^2/NDF : 19979.6/25

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -1256.803+/-53.308 χ^2/NDF : 18889.4/29

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

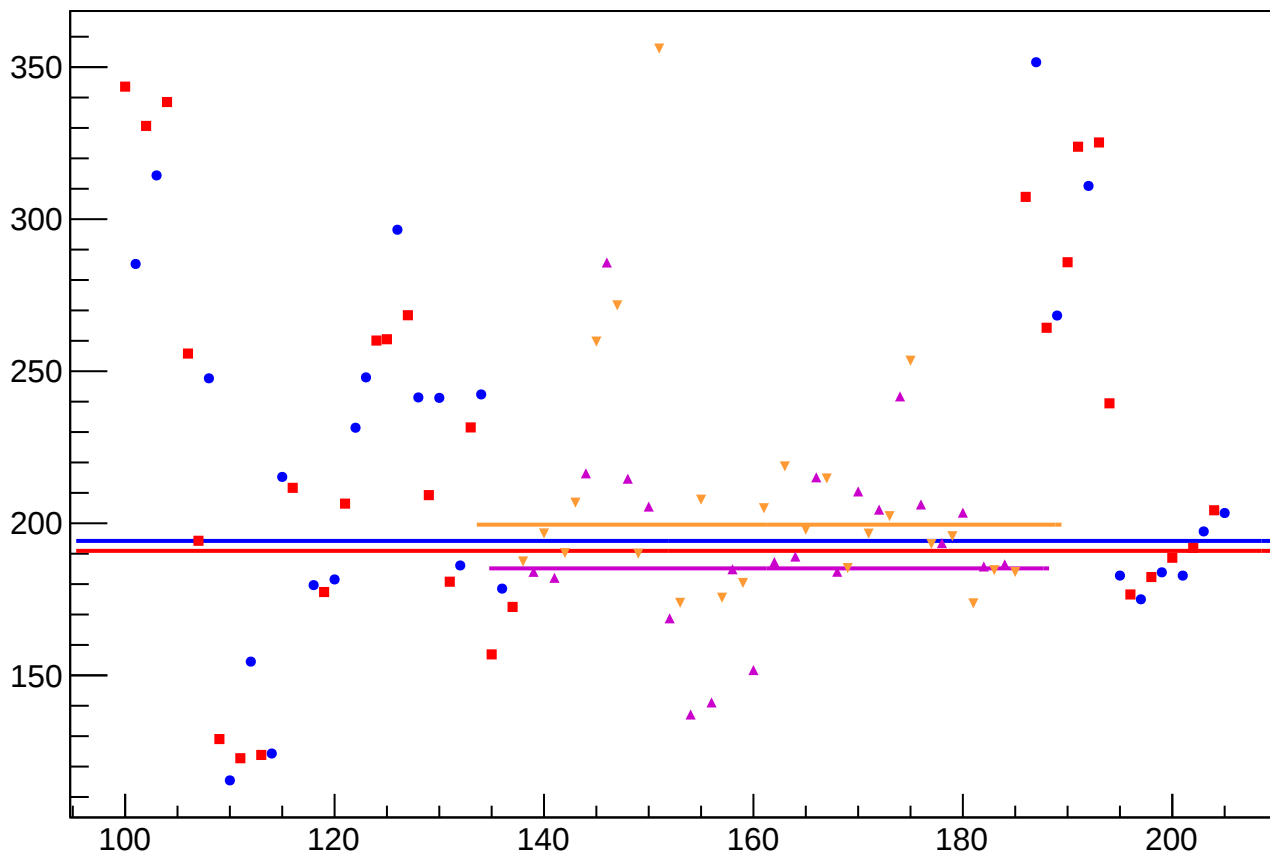
Right: -184.842+/-38.544 χ^2/NDF : 39716.4/55

In: -415.848+/-35.404 χ^2/NDF : 32674.5/48

Out: -120.553+/-35.446 χ^2/NDF : 23964.6/54

All: -268.374+/-25.049 χ^2/NDF : 56673.8/103

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.203 $\pm$ 0.039 χ^2/NDF : 1410264.3/25

Left Out: 199.547 $\pm$ 0.034 χ^2/NDF : 729356.3/24

Right Out: 190.932 $\pm$ 0.038 χ^2/NDF : 2134116.7/29

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2/NDF : 1707122.0/47

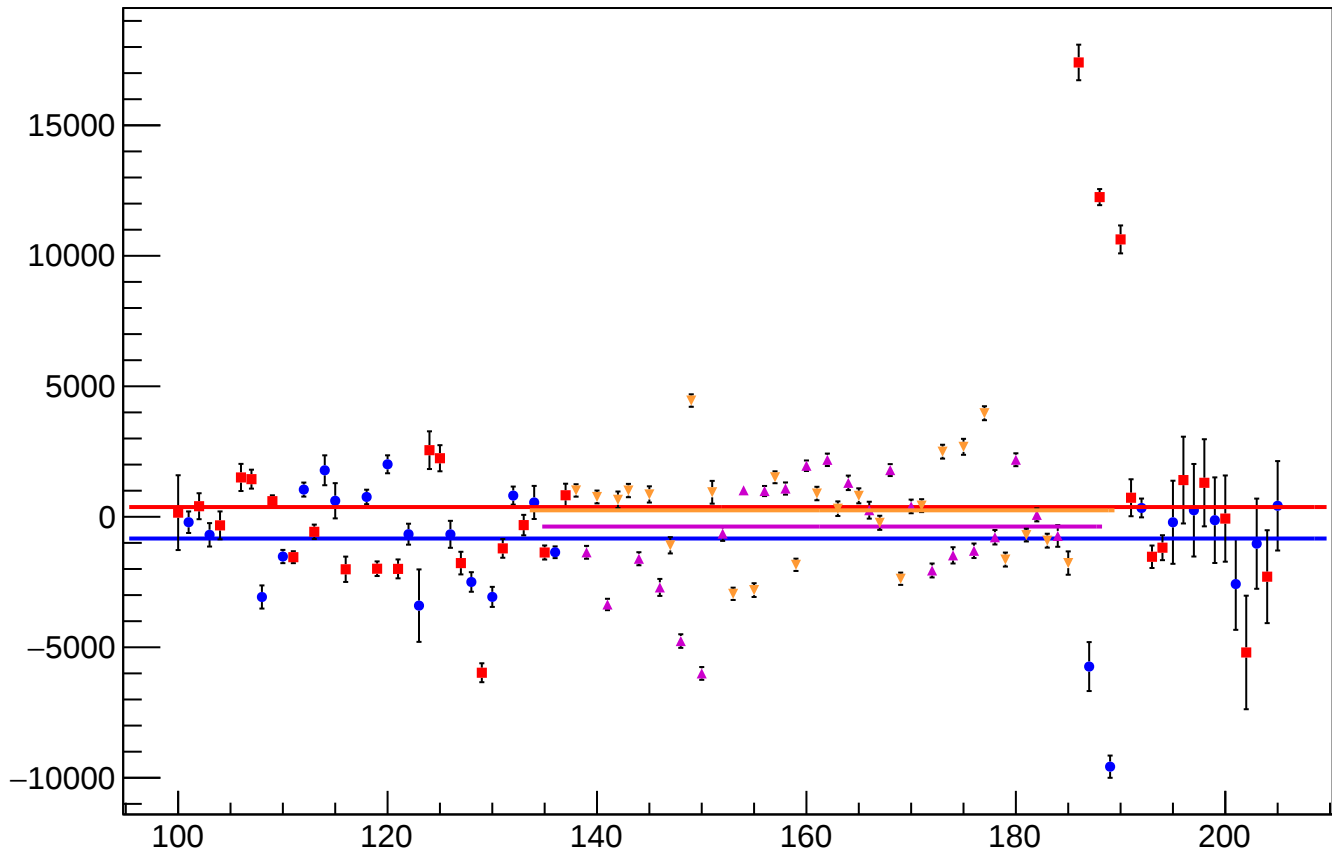
Right: 192.493 $\pm$ 0.027 χ^2/NDF : 3547975.9/55

In: 188.807 $\pm$ 0.025 χ^2/NDF : 2324327.3/48

Out: 195.738 $\pm$ 0.025 χ^2/NDF : 2892614.0/54

All: 192.268 $\pm$ 0.018 χ^2/NDF : 5255215.2/103

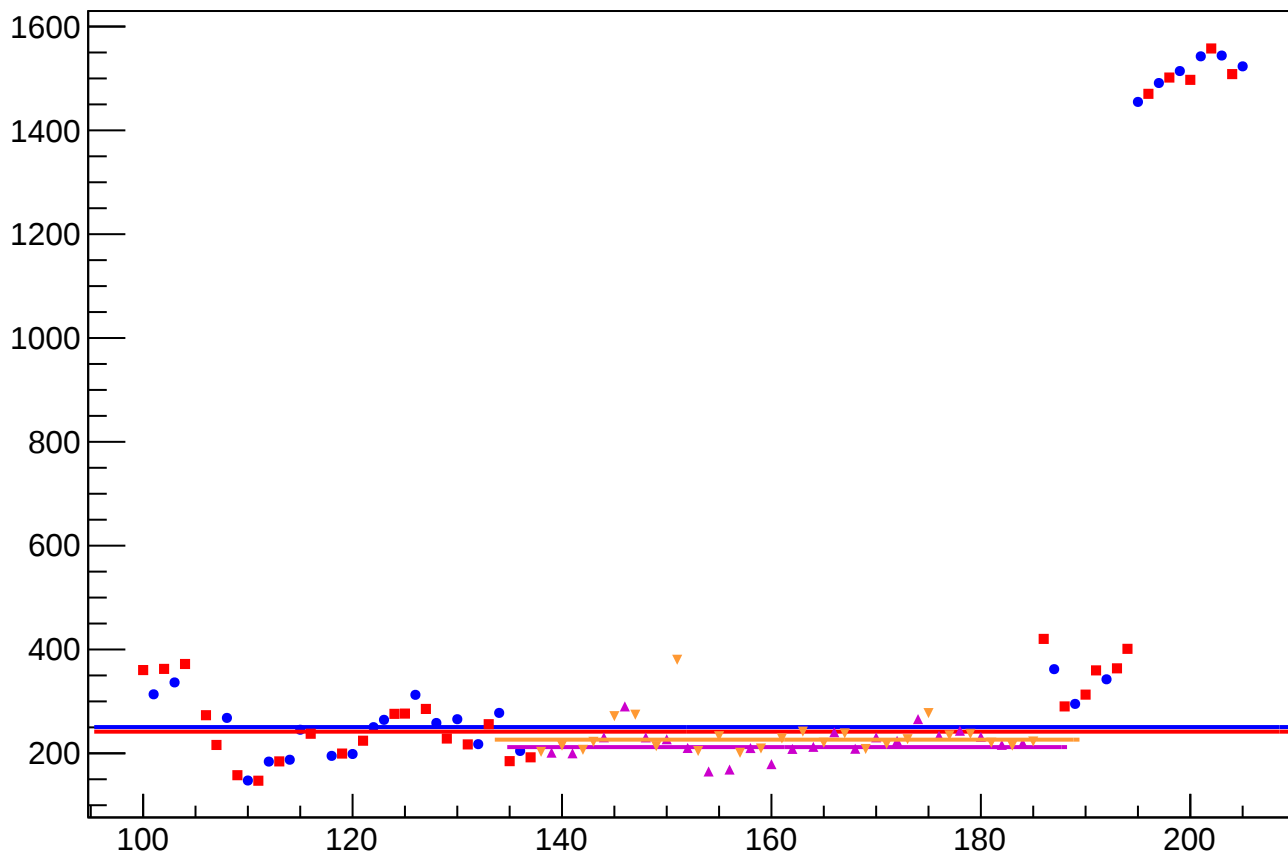
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.364 ± 83.541 χ^2/NDF : 761.7/25
 Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24
 Right Out: 373.180 ± 75.073 χ^2/NDF : 3171.4/29
 Left In: -374.122 ± 52.049 χ^2/NDF : 1801.0/22

Left: -72.006 ± 37.325 χ^2/NDF : 3225.5/47
 Right: -165.413 ± 55.839 χ^2/NDF : 4048.3/55
 In: -502.259 ± 44.176 χ^2/NDF : 2584.4/48
 Out: 290.115 ± 43.598 χ^2/NDF : 4528.3/54
 All: -100.853 ± 31.031 χ^2/NDF : 7275.7/103

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 250.568 $\pm$ 0.059 χ^2 /NDF: 7663074.2/25

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 241.707 $\pm$ 0.053 χ^2 /NDF: 6982042.3/29

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

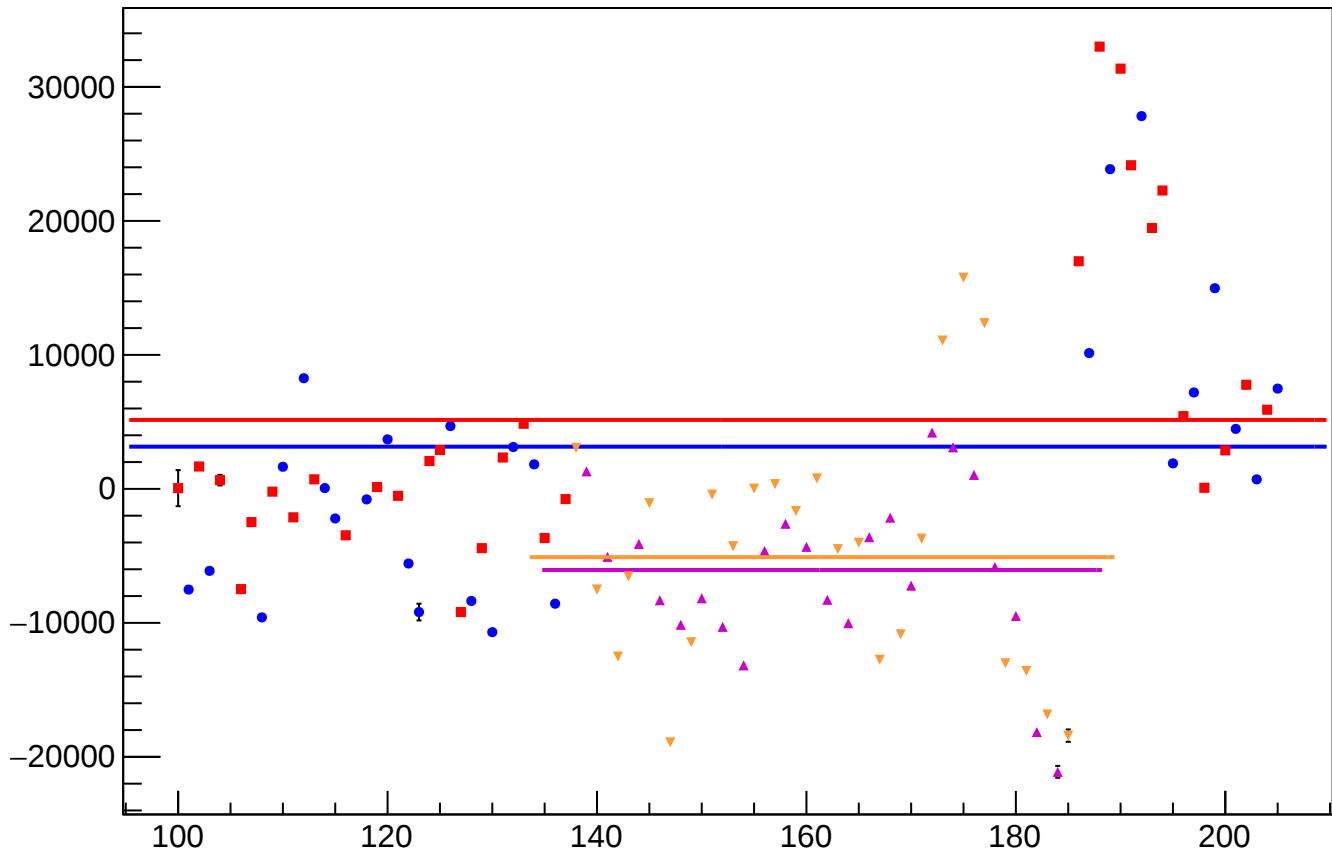
Right: 245.666 $\pm$ 0.039 χ^2 /NDF: 14657566.2/55

In: 222.763 $\pm$ 0.031 χ^2 /NDF: 8554969.0/48

Out: 231.511 $\pm$ 0.031 χ^2 /NDF: 7558750.3/54

All: 227.195 $\pm$ 0.022 χ^2 /NDF: 16153442.9/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3151.589+/-36.951 χ^2/NDF : 73941.5/25

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5147.498+/-34.813 χ^2/NDF : 101013.7/29

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

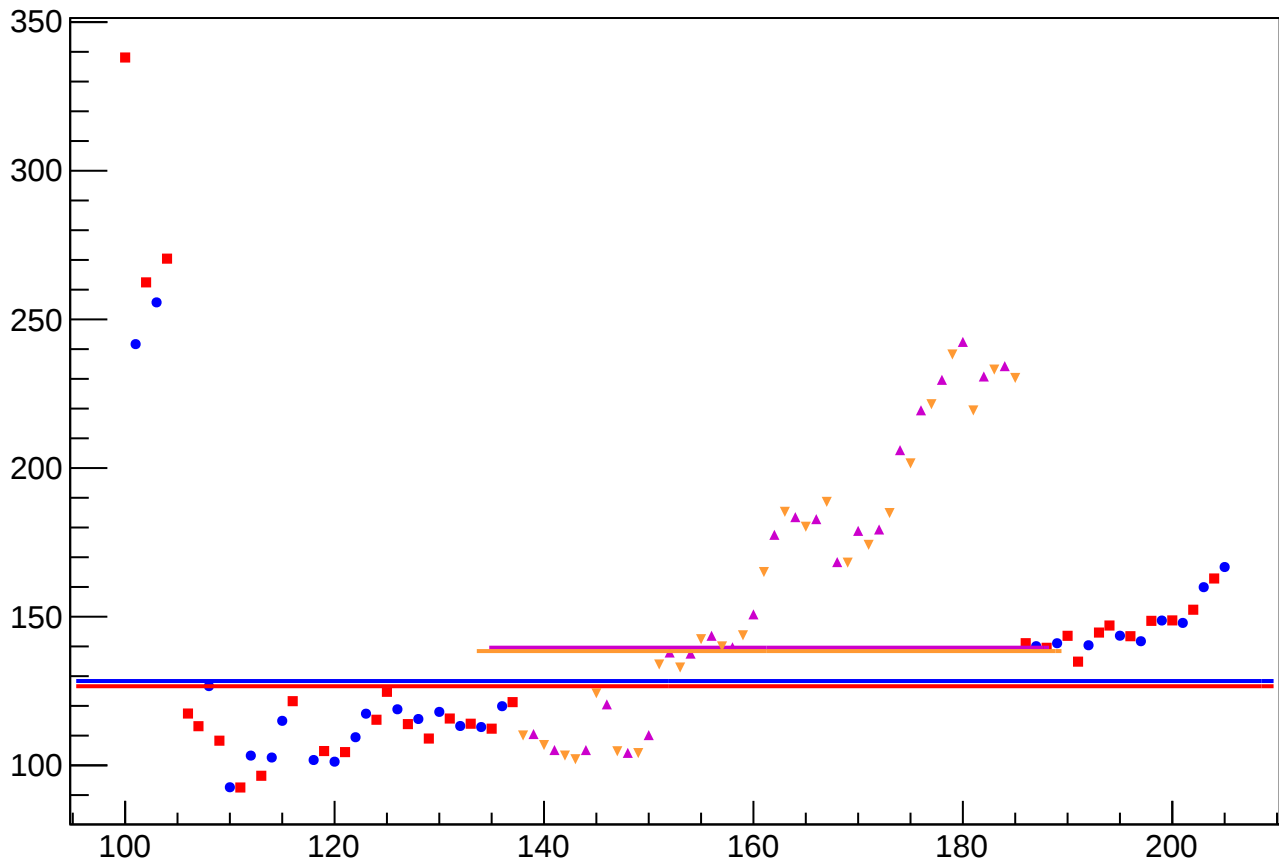
Right: 4208.951+/-25.339 χ^2/NDF : 176500.9/55

In: -1700.662+/-25.410 χ^2/NDF : 124245.0/48

Out: -139.738+/-24.215 χ^2/NDF : 200094.3/54

All: -882.634+/-17.530 χ^2/NDF : 326316.9/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 128.365+/-0.026 χ^2/NDF : 1145307.4/25

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 126.609+/-0.025 χ^2/NDF : 1252162.1/29

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

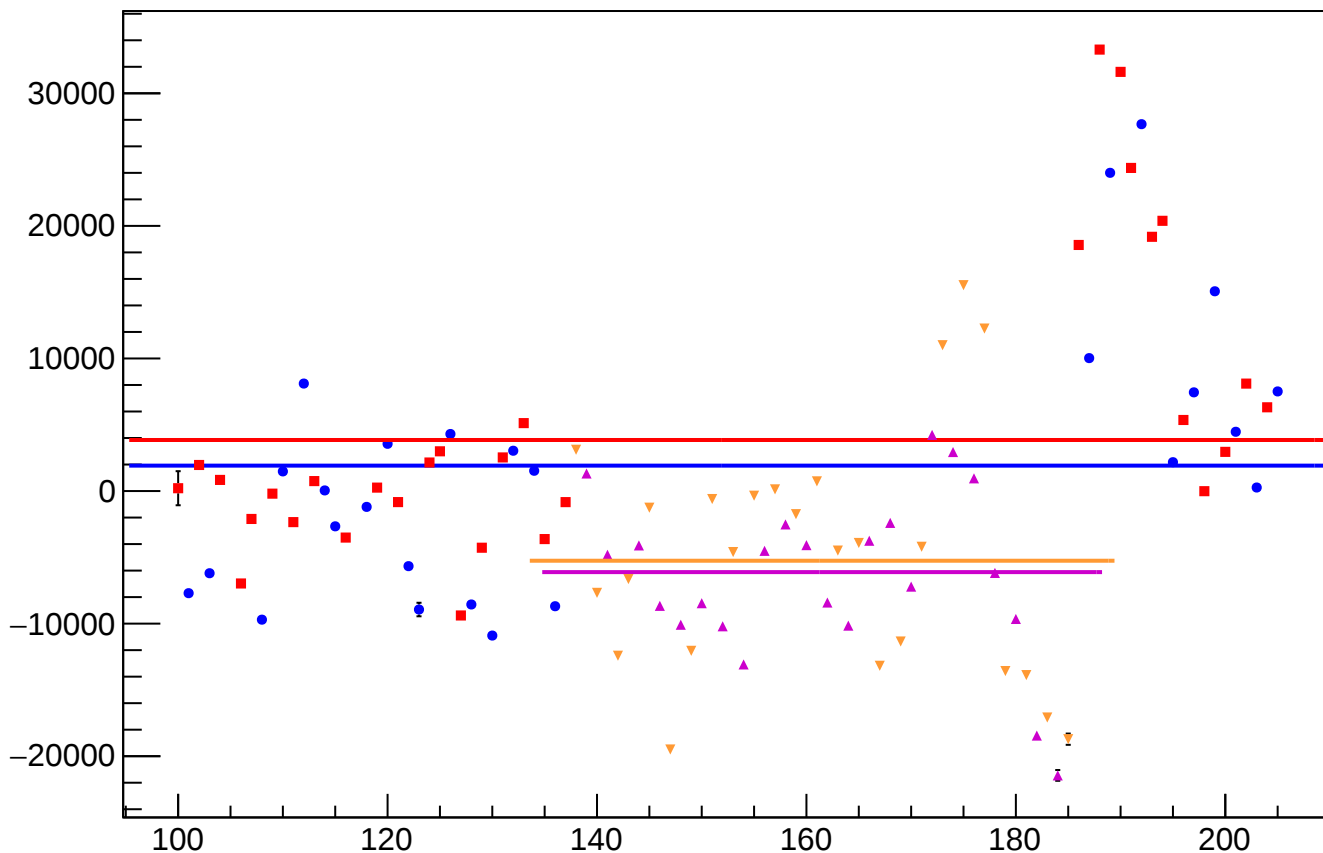
Right: 127.435+/-0.018 χ^2/NDF : 2399860.6/55

In: 134.275+/-0.018 χ^2/NDF : 3656045.5/48

Out: 132.714+/-0.017 χ^2/NDF : 3920734.8/54

All: 133.457+/-0.012 χ^2/NDF : 7580737.9/103

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 1917.272+/-32.938 χ^2/NDF : 81461.3/25

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 3850.746+/-31.225 χ^2/NDF : 108285.5/29

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

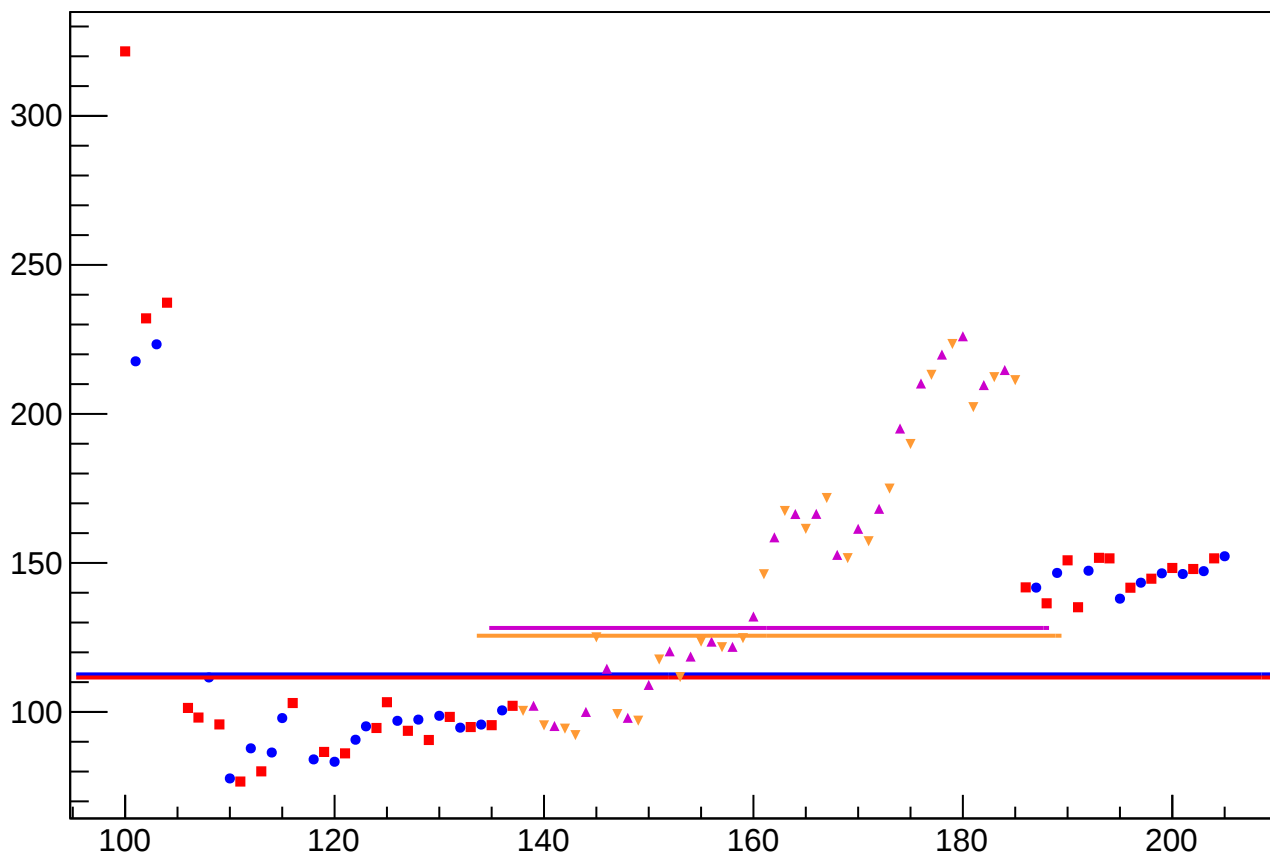
Right: 2935.563+/-22.661 χ^2/NDF : 191561.5/55

In: -2199.032+/-22.998 χ^2/NDF : 133198.2/48

Out: -791.309+/-21.863 χ^2/NDF : 215965.0/54

All: -1459.588+/-15.846 χ^2/NDF : 351131.3/1

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 112.600 $\pm$ 0.023 χ^2 /NDF: 1782562.9/25

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF:2595752.6/24

Right Out: 111.561 $\pm$ 0.022 χ^2 /NDF: 2026191.2/29

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF:2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

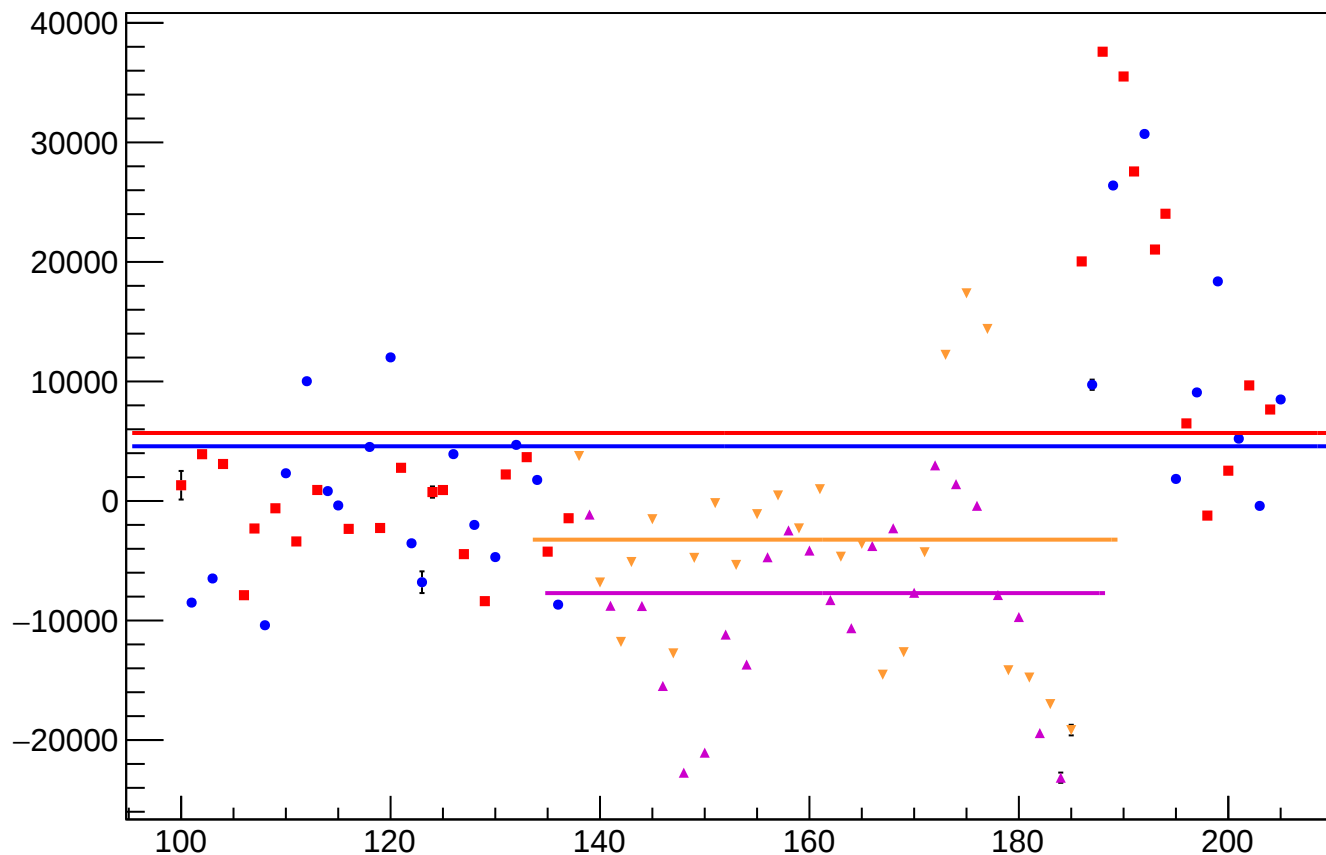
Right: 112.053 $\pm$ 0.016 χ^2 /NDF: 3809803.3/55

In: 120.586 $\pm$ 0.016 χ^2 /NDF:4344965.8/48

Out: 118.706 $\pm$ 0.015 χ^2 /NDF:4827368.4/54

All: 119.599 $\pm$ 0.011 χ^2 /NDF: 9179359.3/103

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 4577.215+/-43.722 χ^2/NDF : 58671.3/25

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 5689.327+/-41.311 χ^2/NDF : 90430.8/29

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

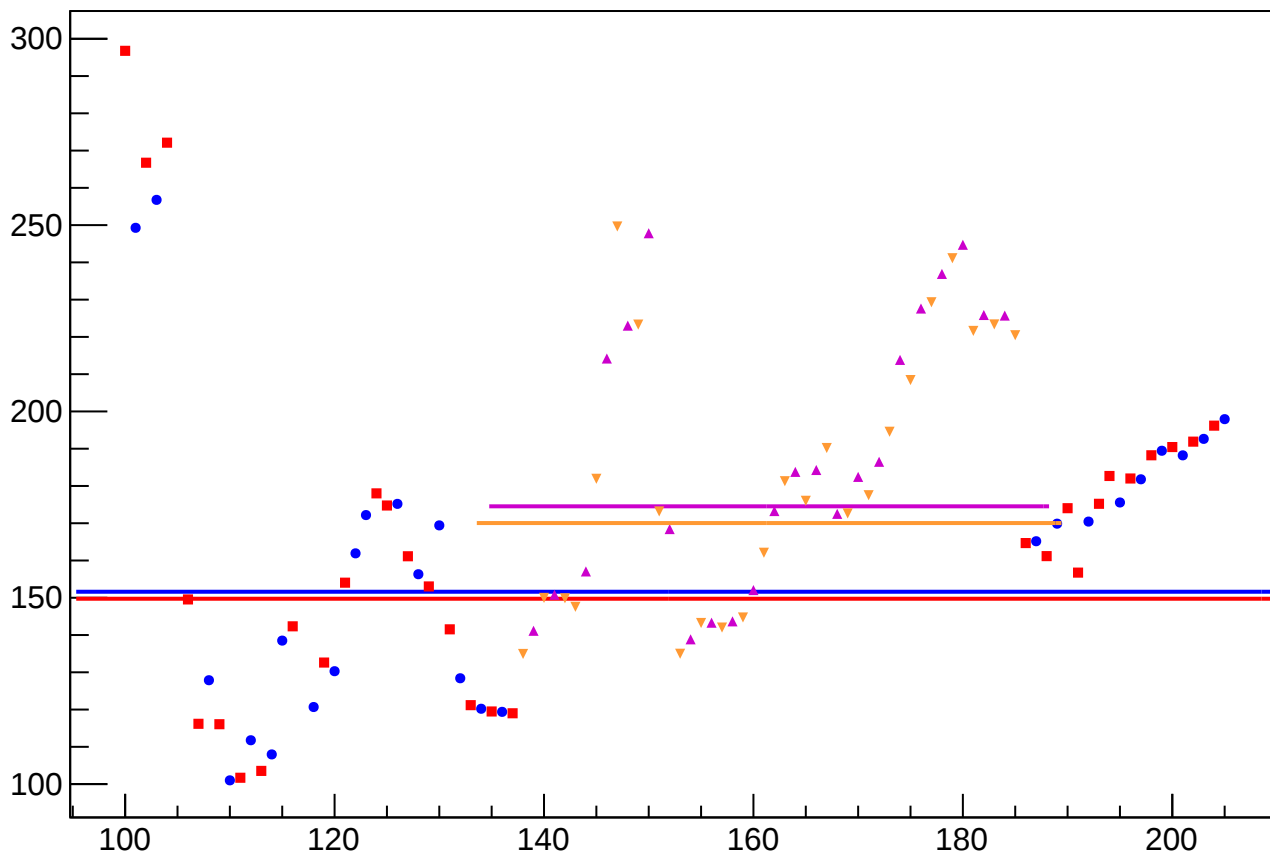
Right: 5164.775+/-30.027 χ^2/NDF : 149443.9/55

In: -1668.576+/-30.654 χ^2/NDF : 120076.7/48

Out: 1147.858+/-28.950 χ^2/NDF : 150919.4/54

All: -179.926+/-21.047 χ^2/NDF : 275458.0/100

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.616+/-0.031 χ^2/NDF : 1380212.5/25

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 149.739+/-0.029 χ^2/NDF : 1529337.0/29

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.165+/-0.021 χ^2/NDF : 2462472.2/47

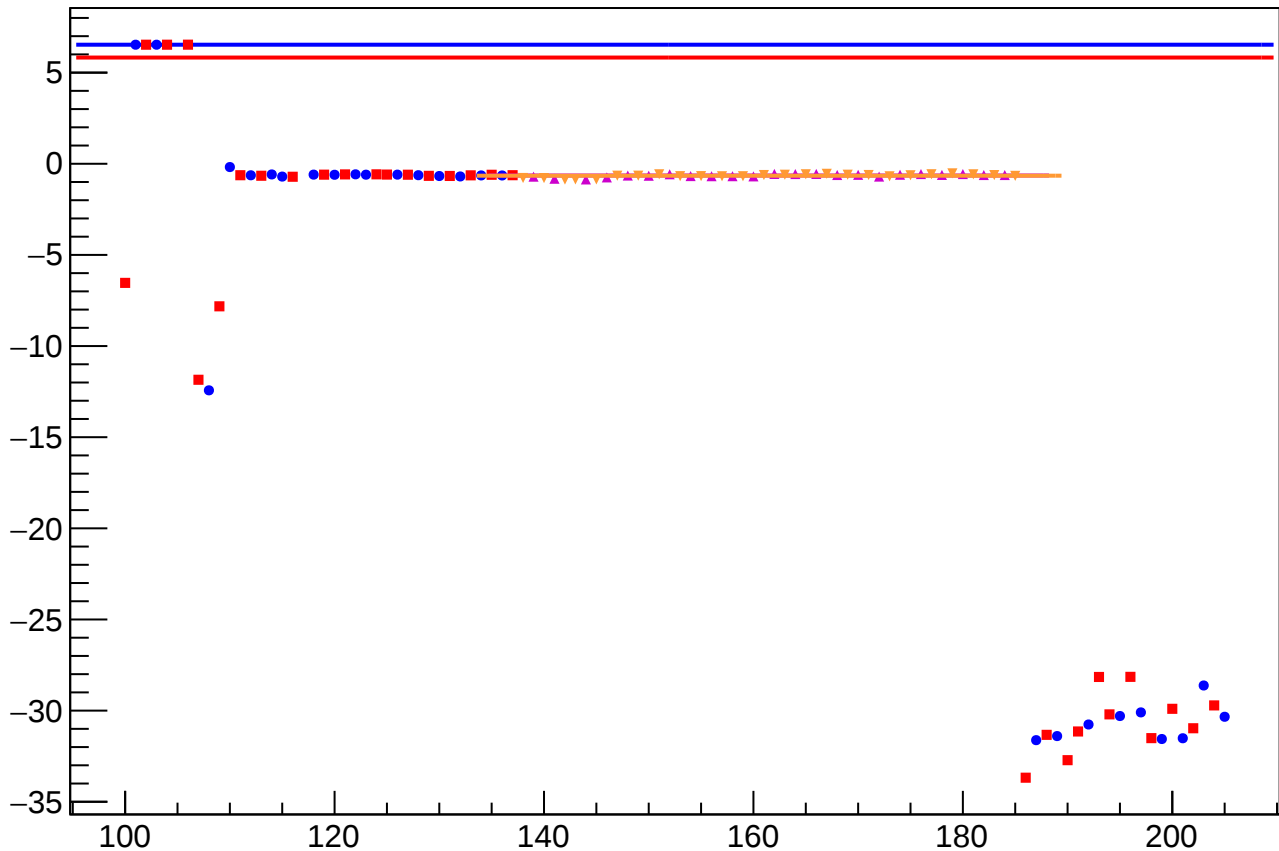
Right: 150.624+/-0.021 χ^2/NDF : 2911497.2/55

In: 163.271+/-0.022 χ^2/NDF :2869806.8/48

Out: 160.075+/-0.020 χ^2/NDF :3016224.3/54

All: 161.582+/-0.015 χ^2/NDF : 5897523.8/103

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 128000506712.8/25

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947813961772.0/29

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

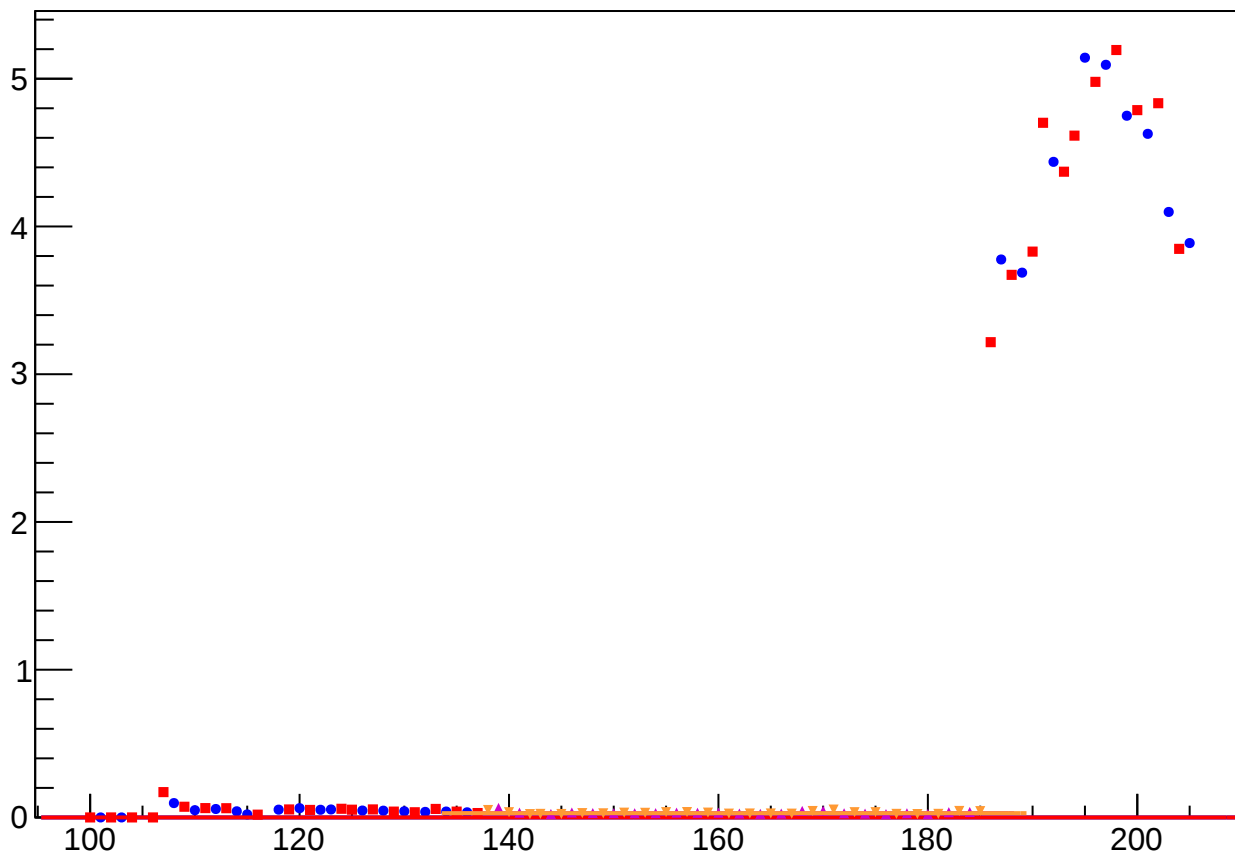
Right: 6.155+/-0.000 χ^2/NDF : 776078981973591.6/47

In: 6.530+/-0.000 χ^2/NDF : 953347888794.6/48

Out: 5.826+/-0.000 χ^2/NDF : 756656842605772.8/50

All: 6.153+/-0.000 χ^2/NDF : 77760235171735.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21297117.7/25

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23173407.5/29

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

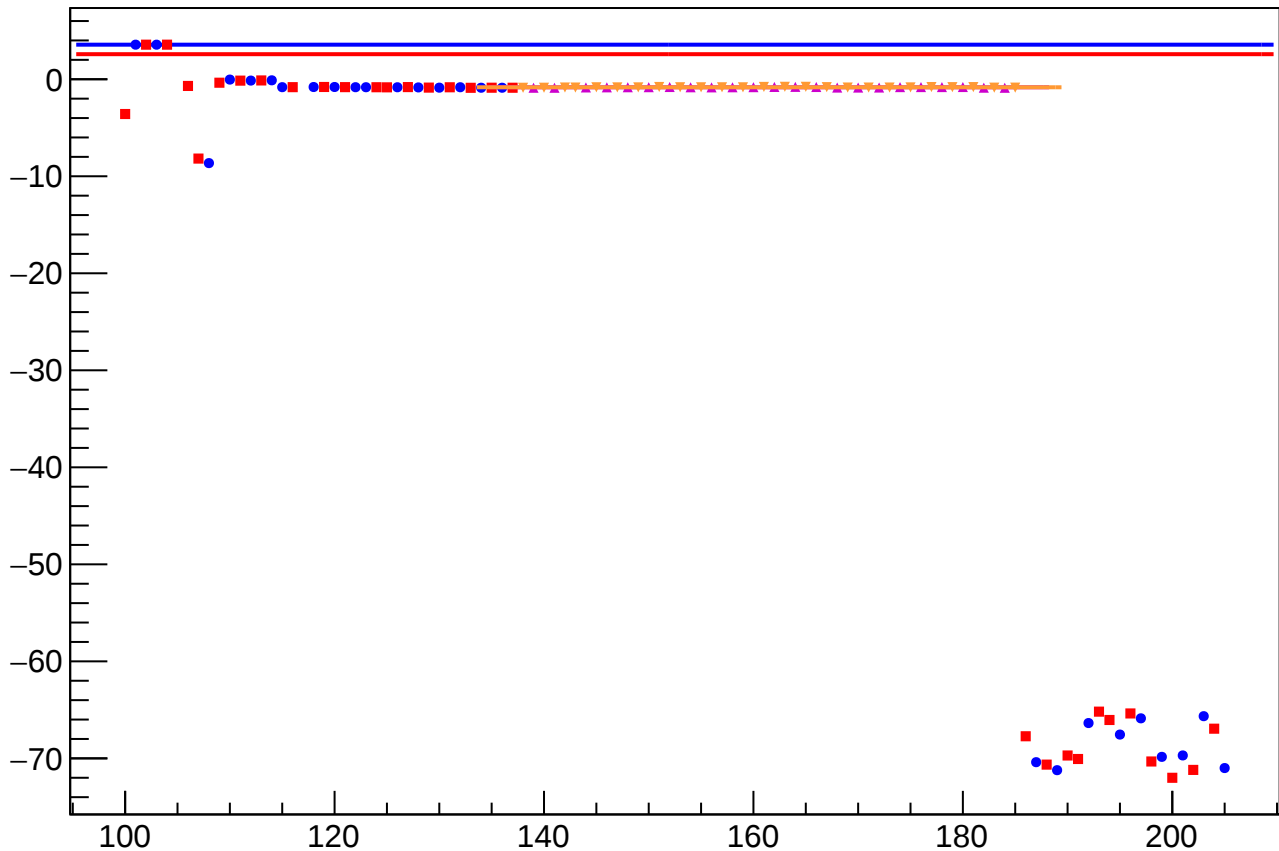
Right: 0.000+/-0.000 χ^2/NDF : 44470775.5/55

In: 0.000+/-0.000 χ^2/NDF :49258789.5/48

Out: 0.000+/-0.000 χ^2/NDF :53049073.9/54

All: 0.000+/-0.000 χ^2/NDF : 102308279.5/103

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 507792405557.0/25

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253529983068934.8/29

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

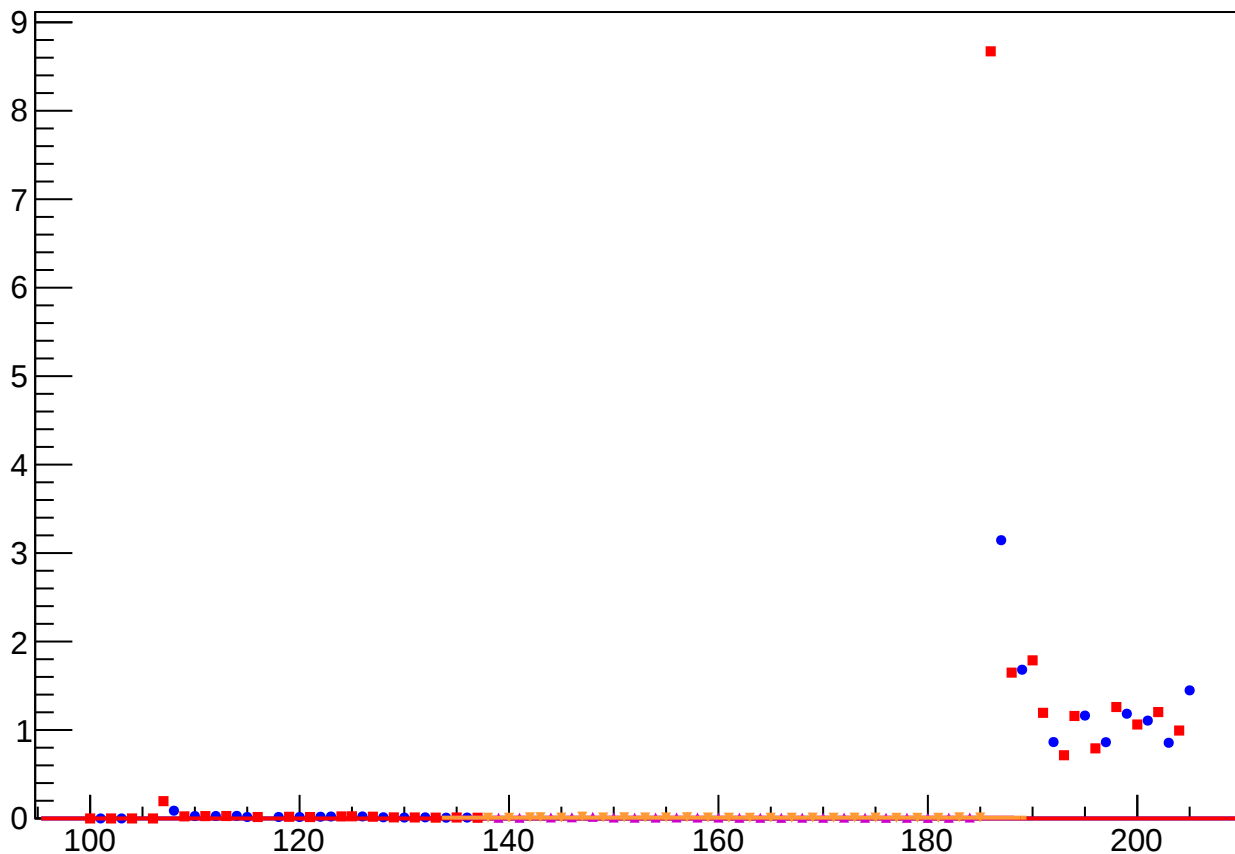
Right: 3.040+/-0.000 χ^2/NDF : 1382308960866196.1

In: 3.560+/-0.000 χ^2/NDF : 4153543707434.7/48

Out: 2.581+/-0.000 χ^2/NDF : 1255752314024192.0

All: 3.038+/-0.000 χ^2/NDF : 13879954327803

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19981808.6/25

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21616644.7/29

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

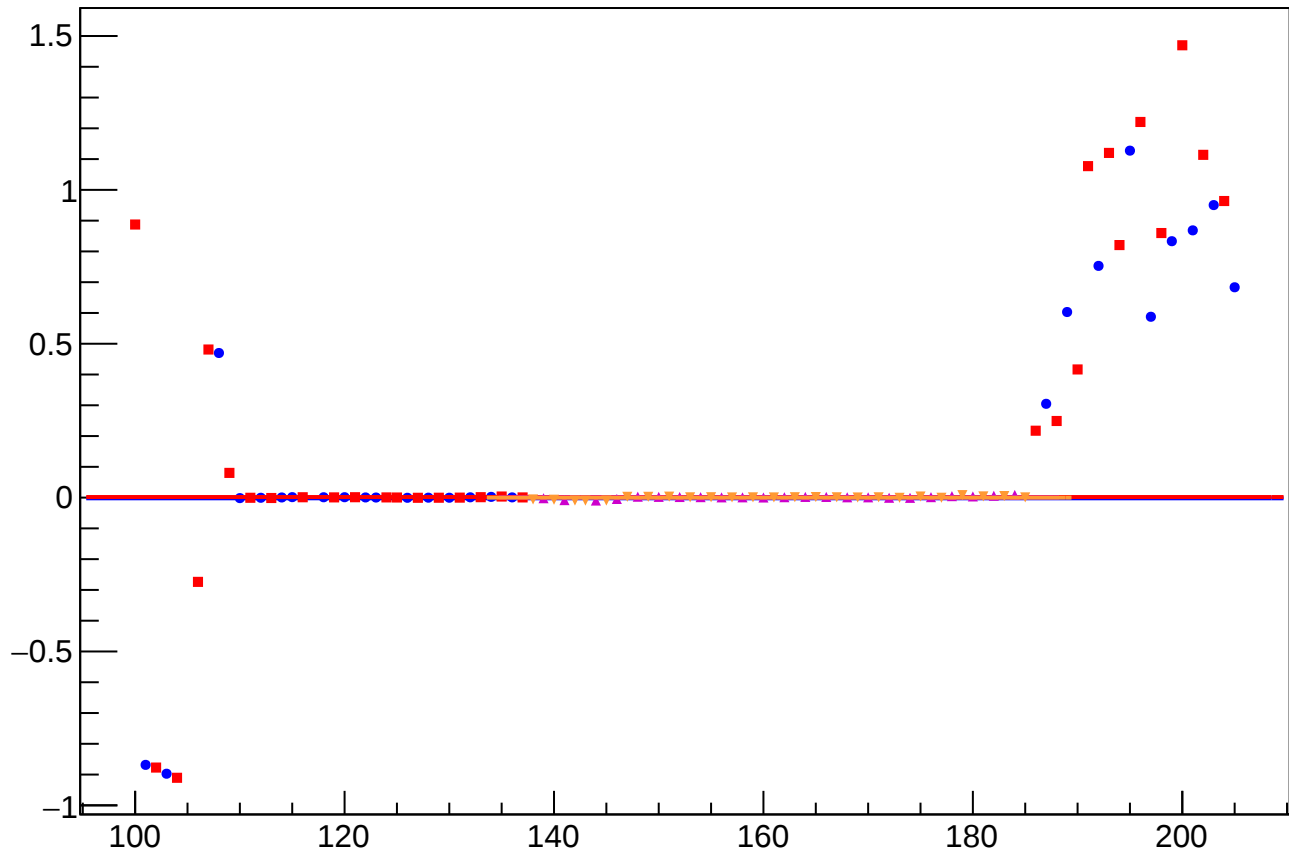
Right: 0.000+/-0.000 χ^2/NDF : 41598734.7/55

In: 0.000+/-0.000 χ^2/NDF :49517841.5/48

Out: 0.000+/-0.000 χ^2/NDF :53035238.1/54

All: 0.000+/-0.000 χ^2/NDF : 102553834.6/103

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9796974199.4/25

Left Out: -0.000+/-0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3043581837.4/29

Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

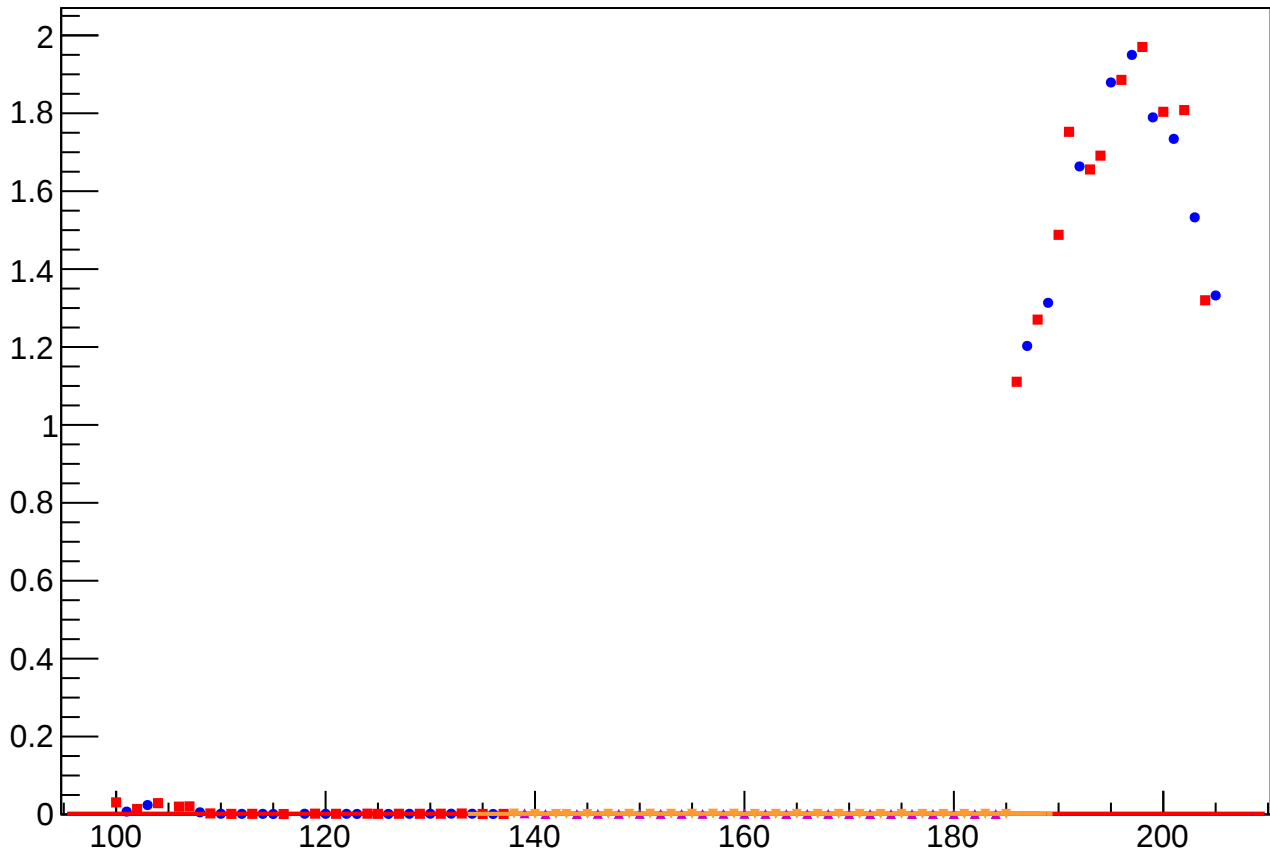
Right: -0.000+/-0.000 χ^2/NDF : 12854325360.3/55

In: -0.000+/-0.000 χ^2/NDF : 9909425336.2/48

Out: 0.000+/-0.000 χ^2/NDF : 3199798010.9/54

All: 0.000+/-0.000 χ^2/NDF : 13109560385.7/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14170326.5/25

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16807697.1/29

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

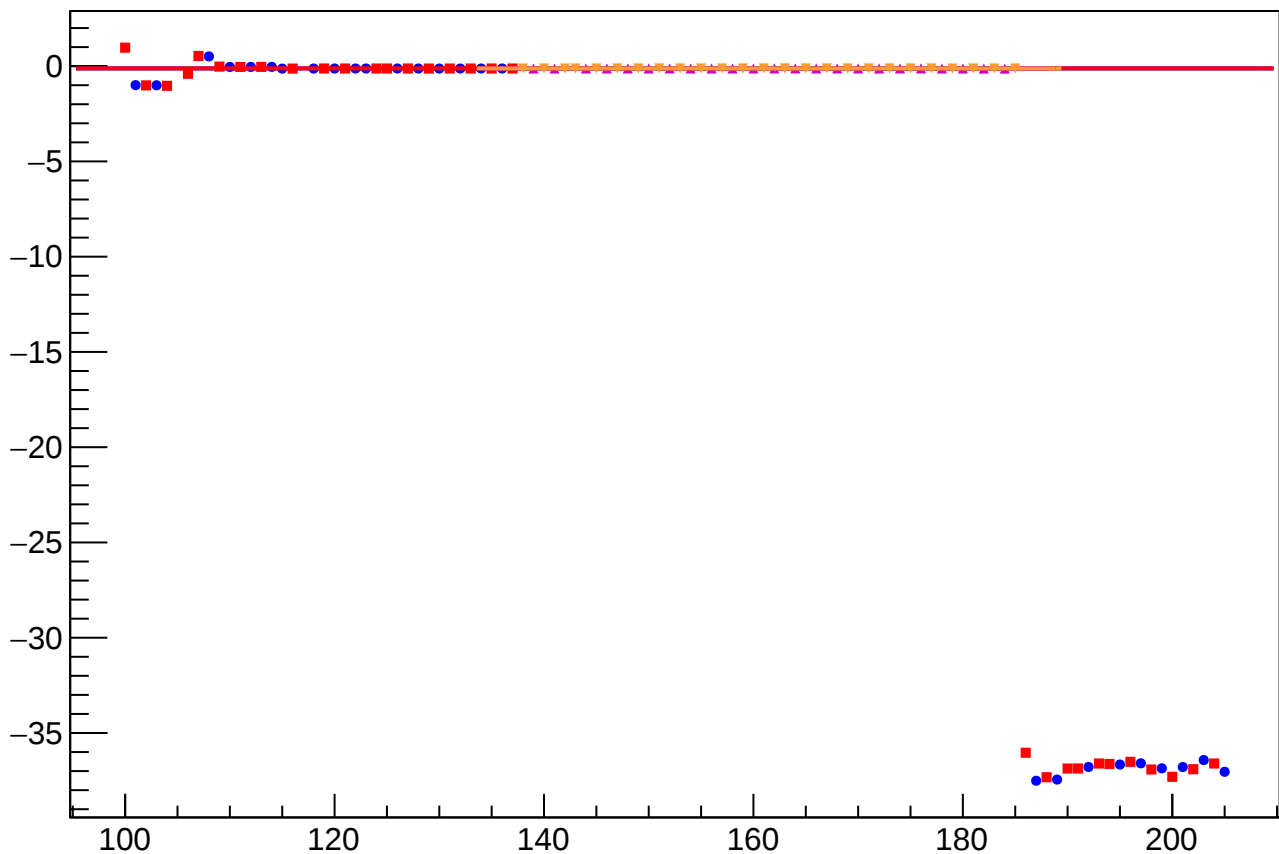
Right: 0.002+/-0.000 χ^2/NDF : 30986534.4/55

In: 0.002+/-0.000 χ^2/NDF :14847910.9/48

Out: 0.002+/-0.000 χ^2/NDF :17486268.9/54

All: 0.002+/-0.000 χ^2/NDF : 32335090.8/103

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 57475407681.5/25

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 59986853165.3/29

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

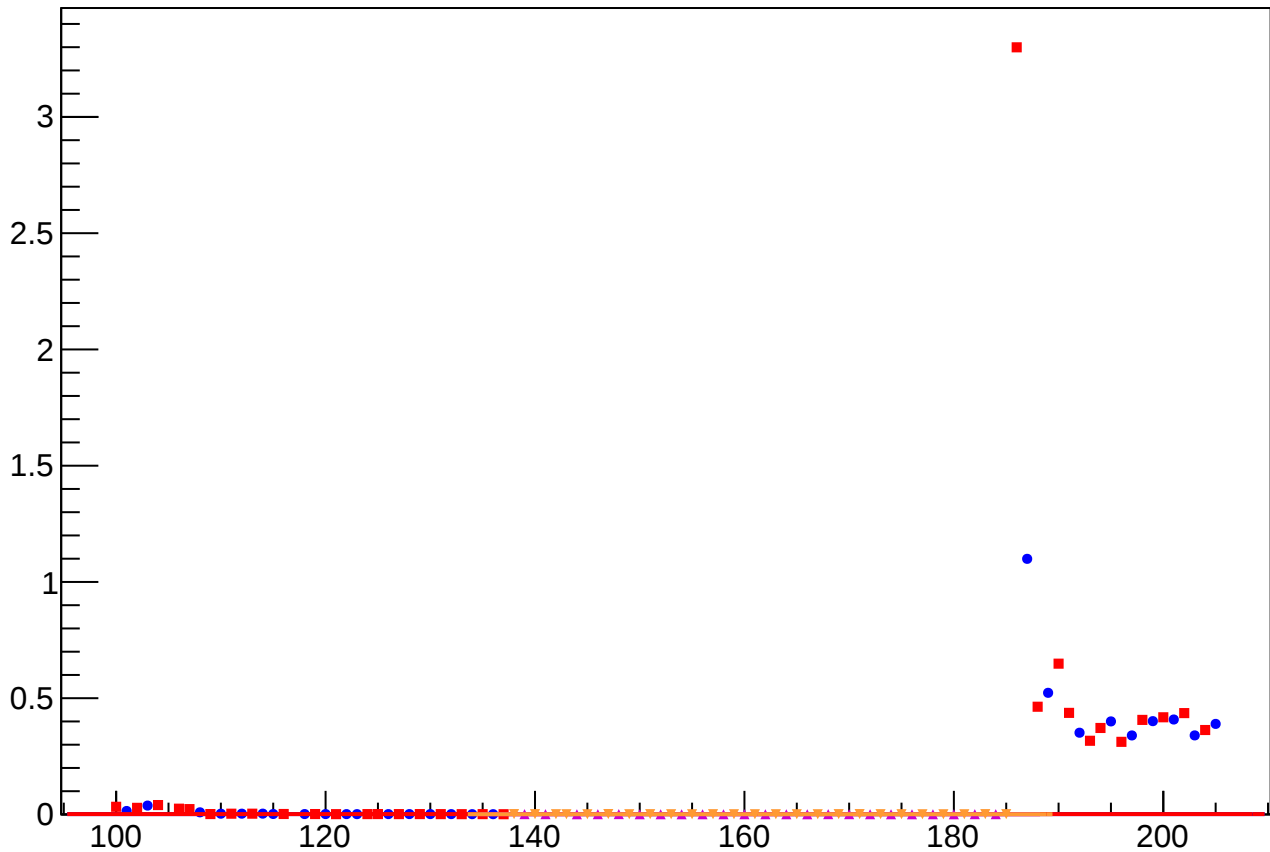
Right: -0.119+/-0.000 χ^2/NDF : 117484806308.3/55

In: -0.121+/-0.000 χ^2/NDF : 57527586670.4/48

Out: -0.121+/-0.000 χ^2/NDF : 60085277688.5/54

All: -0.121+/-0.000 χ^2/NDF : 117613814890.8

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14600858.9/25

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16793059.2/29

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

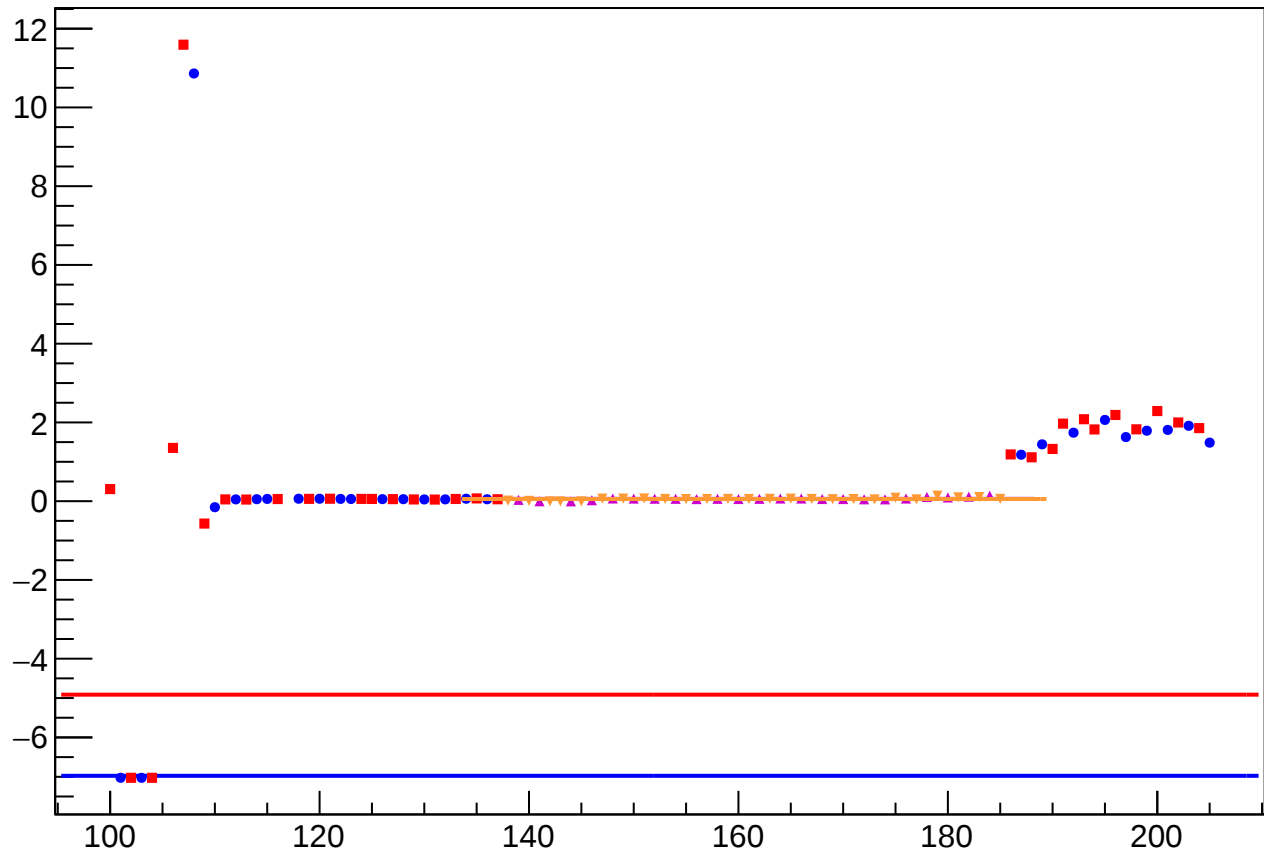
Right: 0.002+/-0.000 χ^2/NDF : 31394036.6/55

In: 0.001+/-0.000 χ^2/NDF :16743333.4/48

Out: 0.001+/-0.000 χ^2/NDF :19333712.2/54

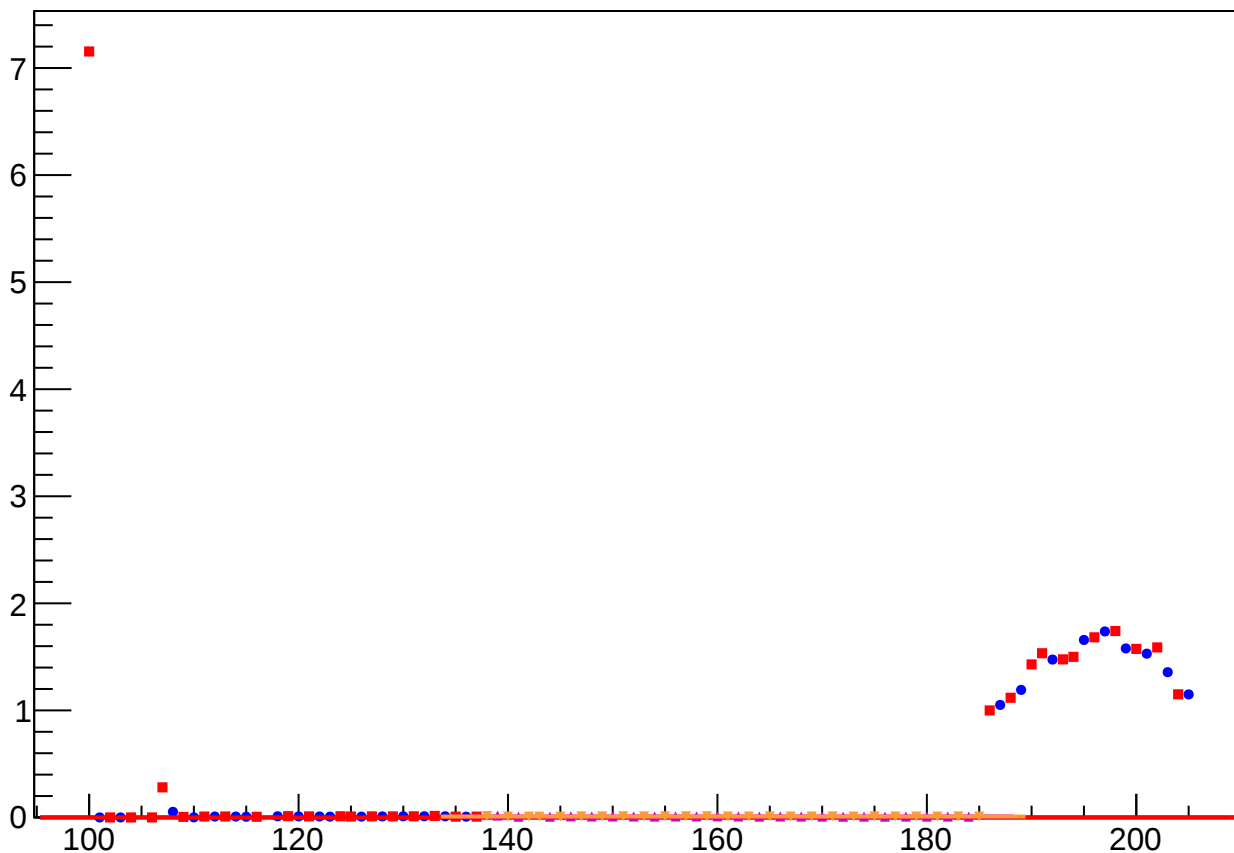
All: 0.001+/-0.000 χ^2/NDF : 36079603.2/103

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797587434953.5/25$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333651158985.3$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352814568662.2/29$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553105292979.8/48$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165377656197.4/47$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435289414040$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20621131.3/25

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 22587754.3/29

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

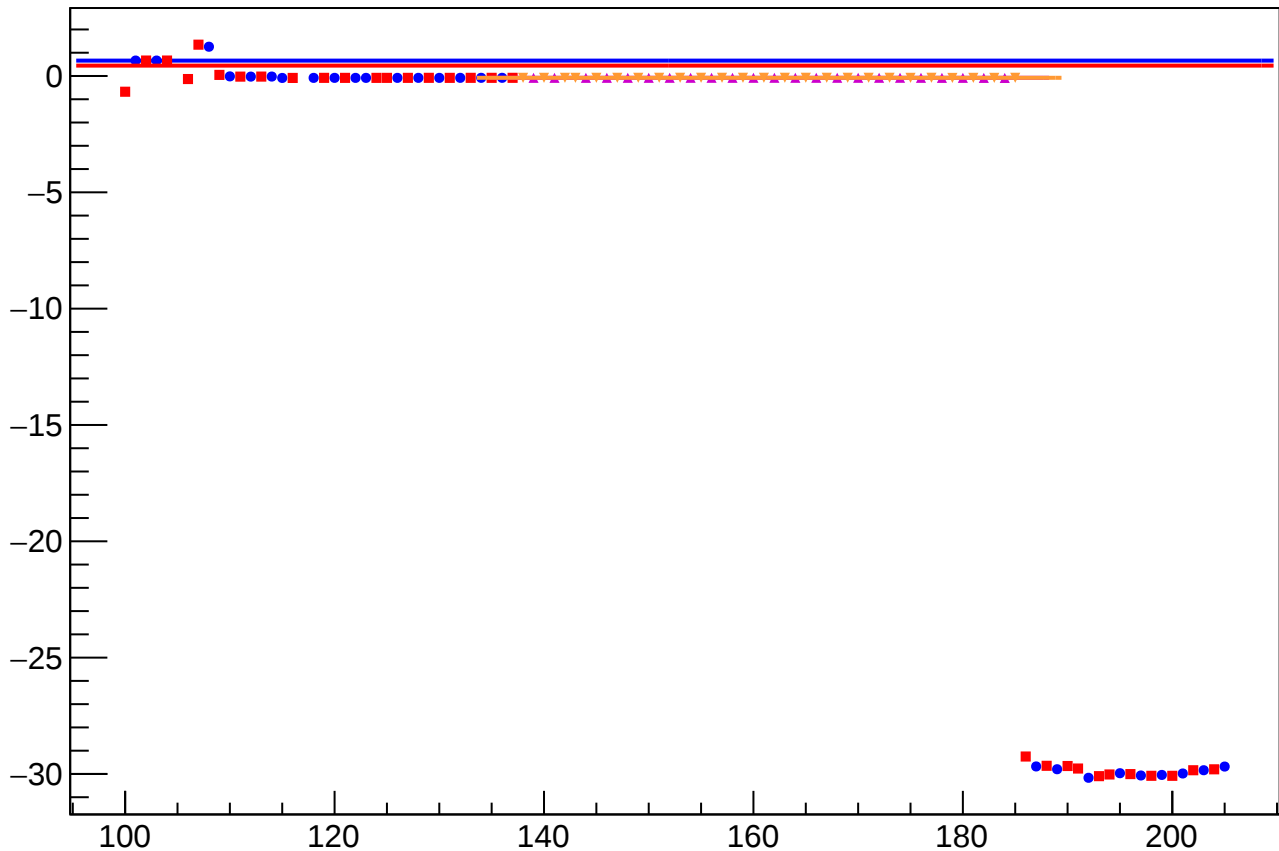
Right: 0.000+/-0.000 χ^2/NDF : 43209234.9/55

In: 0.000+/-0.000 χ^2/NDF :48039068.2/48

Out: 0.000+/-0.000 χ^2/NDF :51531879.8/54

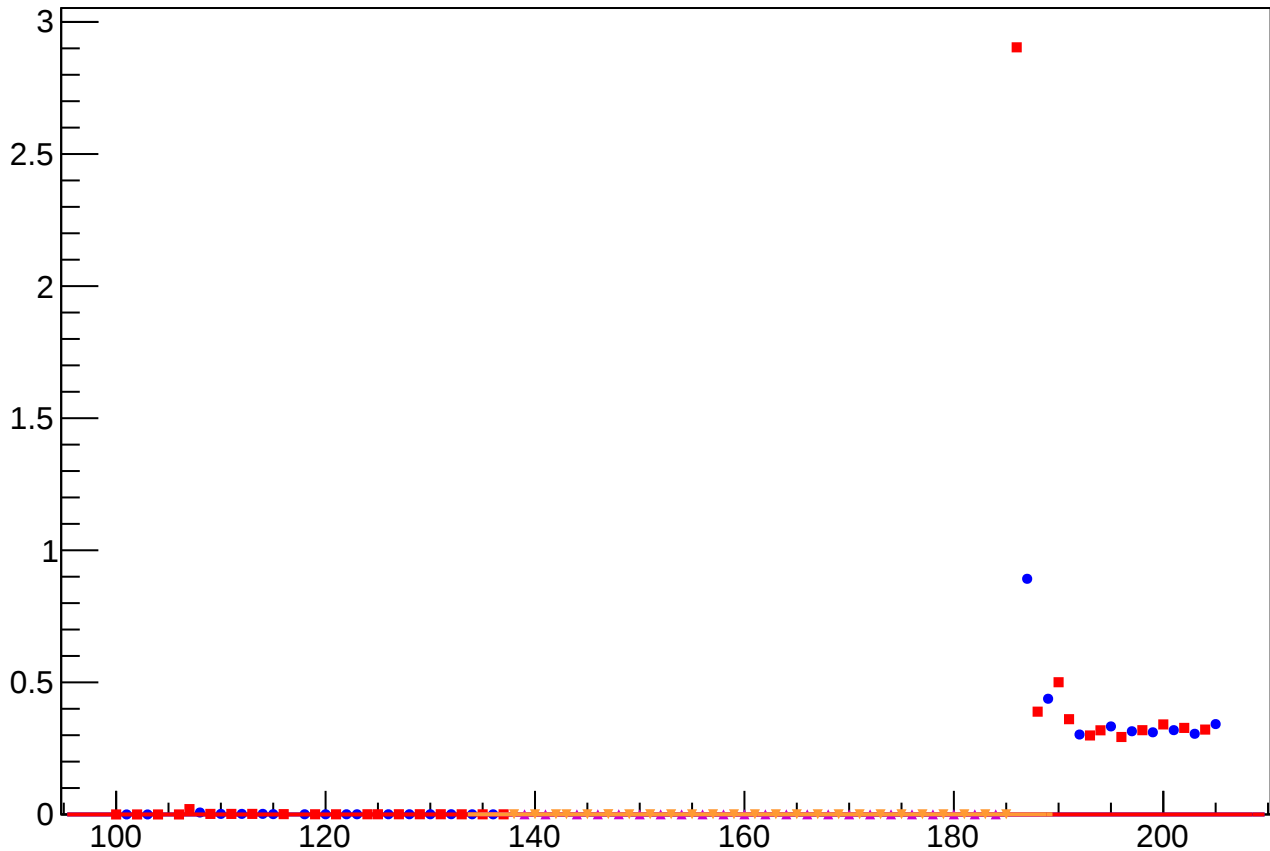
All: 0.000+/-0.000 χ^2/NDF : 99571414.3/103

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5712049795629.8/25	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 : 474108724602566.6
Right Out: 0.446+/-0.000	χ^2/NDF : 405483405092634.6/29	In: 0.647+/-0.000	χ^2/NDF : 33752734212310.9/48
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420644487175039.6/5
		All: 0.537+/-0.000	χ^2/NDF : 51595312009189

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22081902.7/25

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23124397.3/29

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

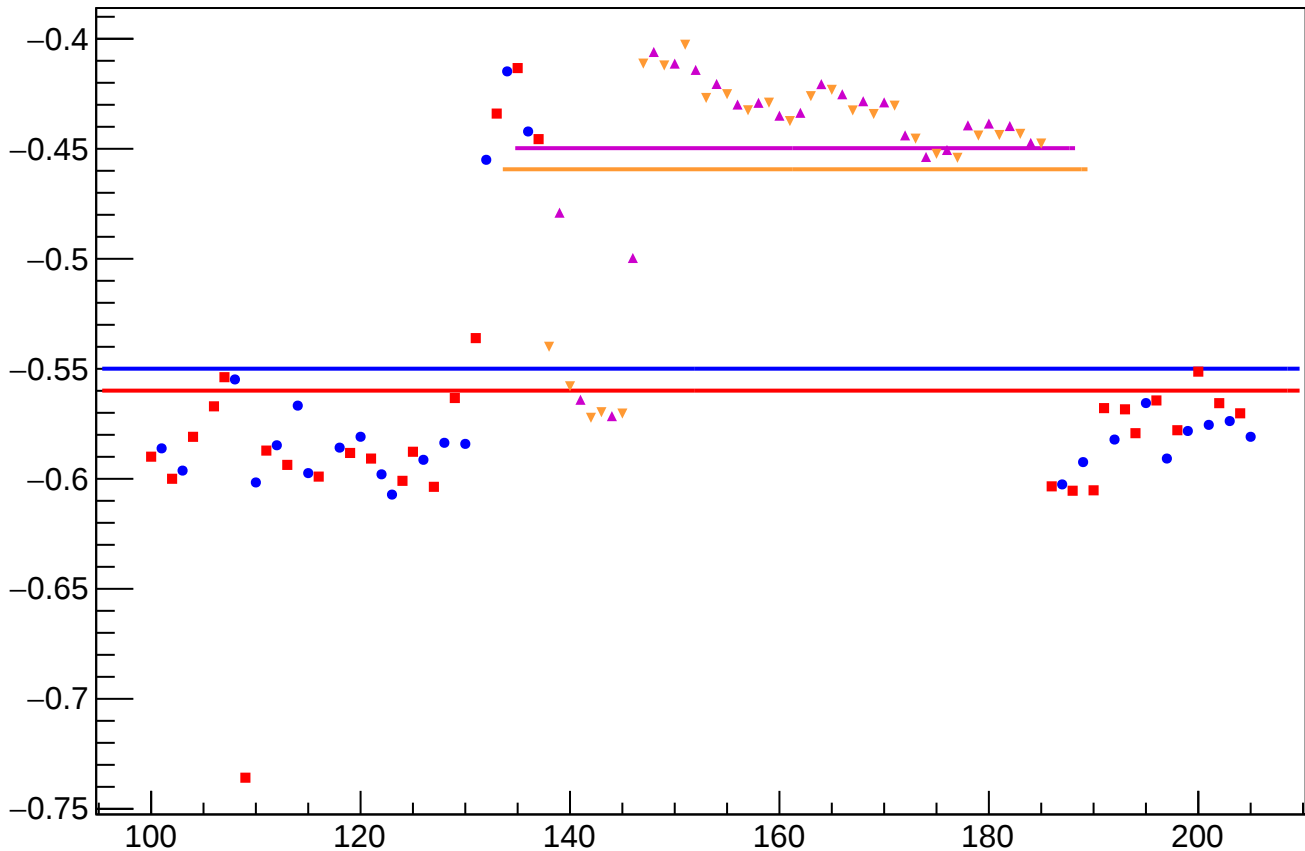
Right: 0.000+/-0.000 χ^2/NDF : 45206315.7/55

In: 0.000+/-0.000 χ^2/NDF :52814250.6/48

Out: 0.000+/-0.000 χ^2/NDF :55745609.4/54

All: 0.000+/-0.000 χ^2/NDF : 108560196.2/103

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.550+/-0.000 χ^2/NDF : 48028194.2/25

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65682181.2/29

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

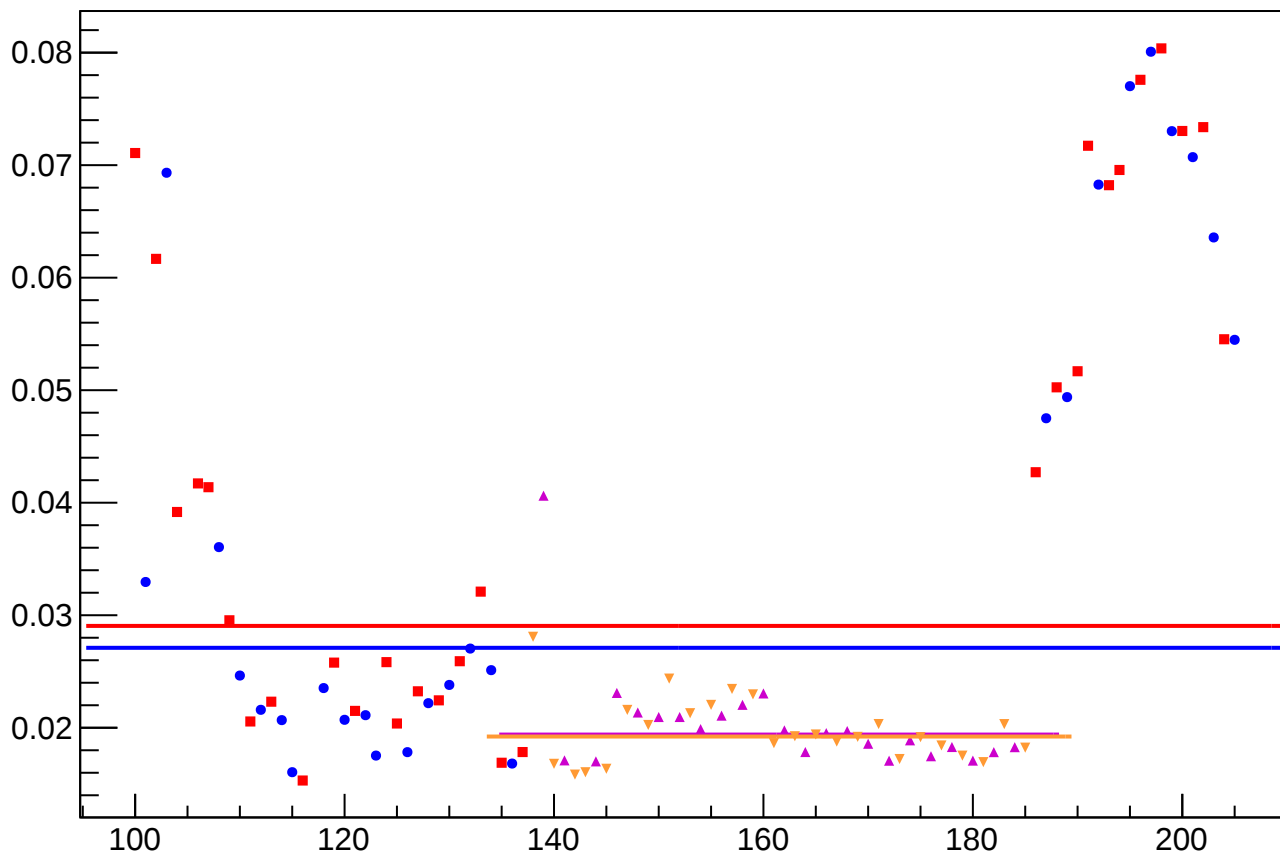
Right: -0.555+/-0.000 χ^2/NDF : 114295867.5/55

In: -0.474+/-0.000 χ^2/NDF : 215103971.7/48

Out: -0.482+/-0.000 χ^2/NDF : 270284401.3/54

All: -0.478+/-0.000 χ^2/NDF : 486858979.9/100

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2/NDF : 5821616.3/25

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF :501711.6/24

Right Out: 0.029 $\pm$ 0.000 χ^2/NDF : 6035068.7/29

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

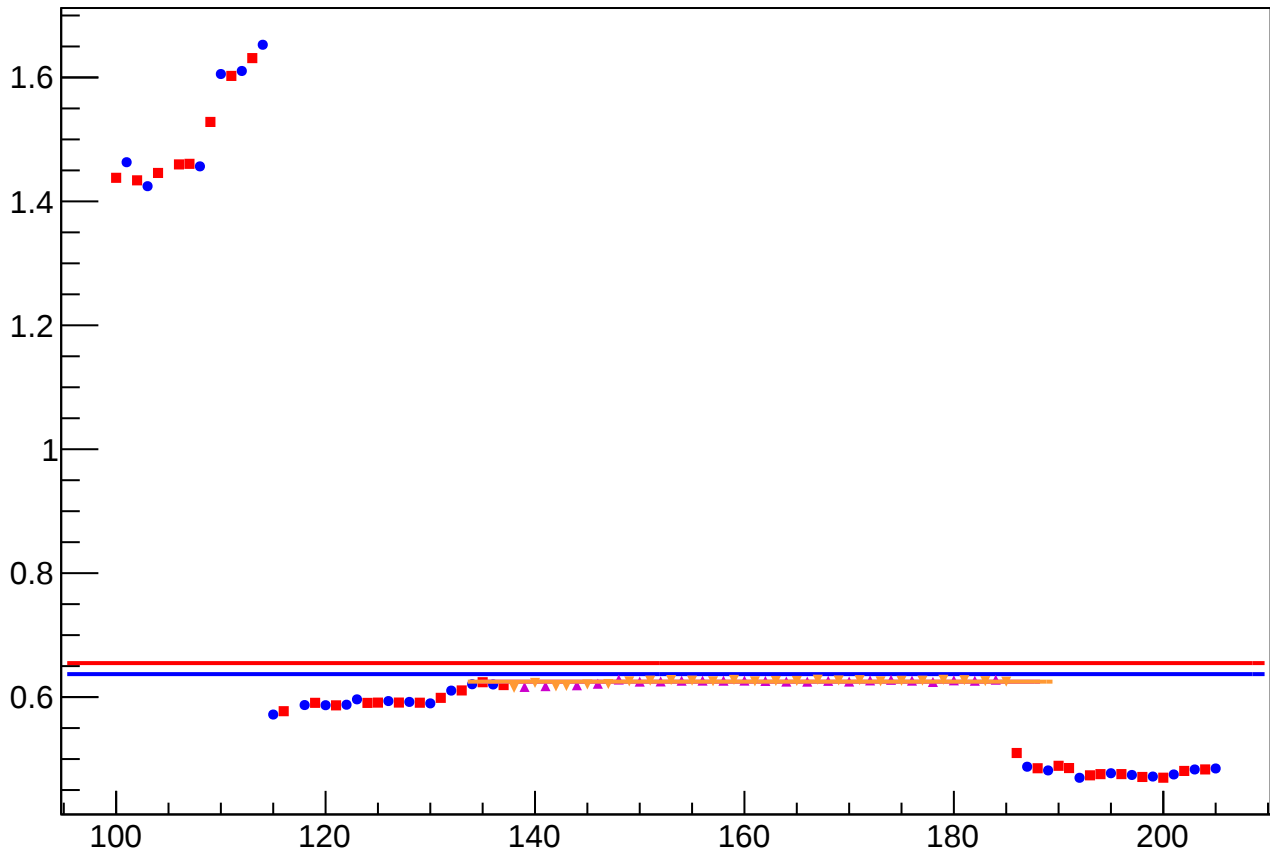
Right: 0.028 $\pm$ 0.000 χ^2/NDF : 11901320.6/55

In: 0.021 $\pm$ 0.000 χ^2/NDF :7524802.2/48

Out: 0.021 $\pm$ 0.000 χ^2/NDF :8275042.8/54

All: 0.021 $\pm$ 0.000 χ^2/NDF : 15800888.1/103

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.637 $\pm$ 0.000 χ^2 /NDF: 4927782631.5/25

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.655 $\pm$ 0.000 χ^2 /NDF: 5937388051.0/29

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

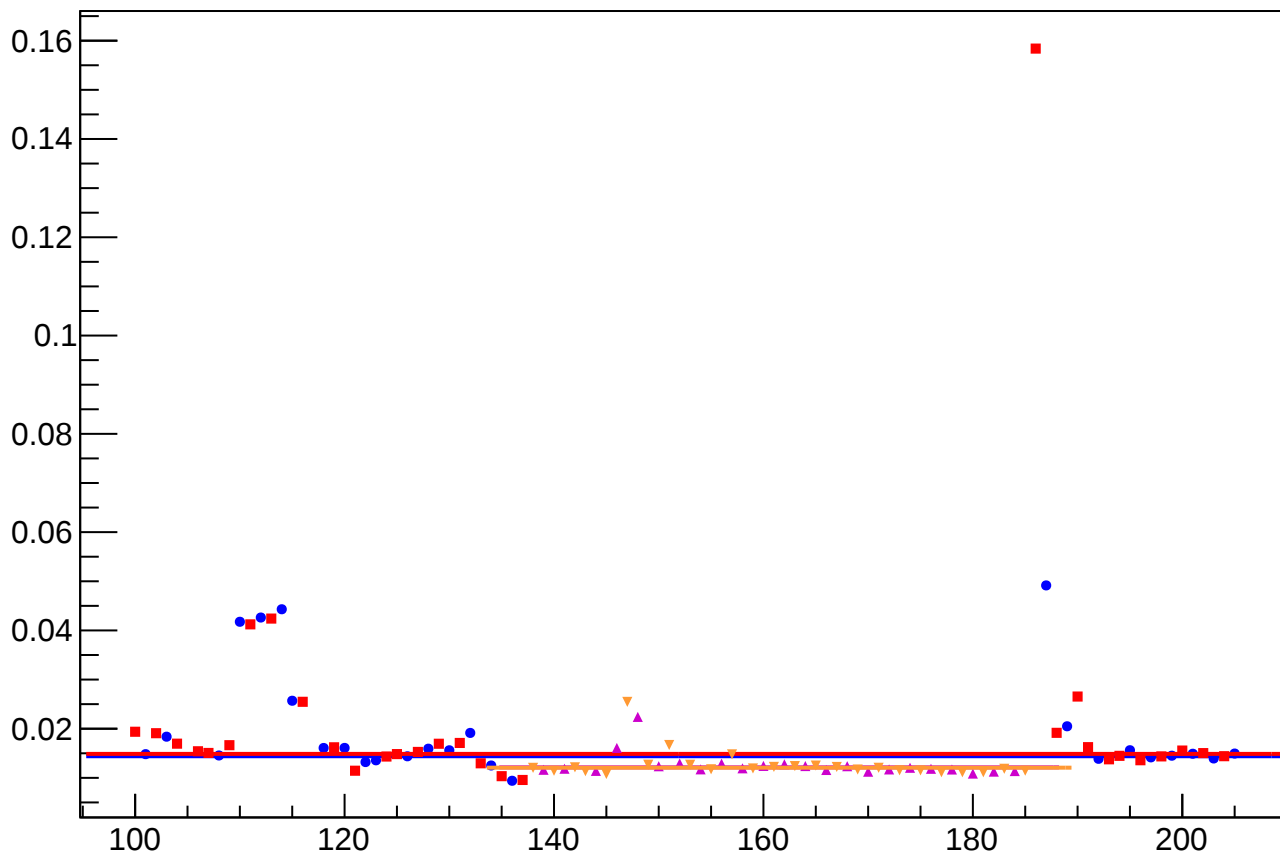
Right: 0.646 $\pm$ 0.000 χ^2 /NDF: 10874010592.1/55

In: 0.629 $\pm$ 0.000 χ^2 /NDF:4934524306.6/48

Out: 0.634 $\pm$ 0.000 χ^2 /NDF:5973142266.0/54

All: 0.632 $\pm$ 0.000 χ^2 /NDF: 10910298391.5/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1640509.6/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2079137.1/29

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

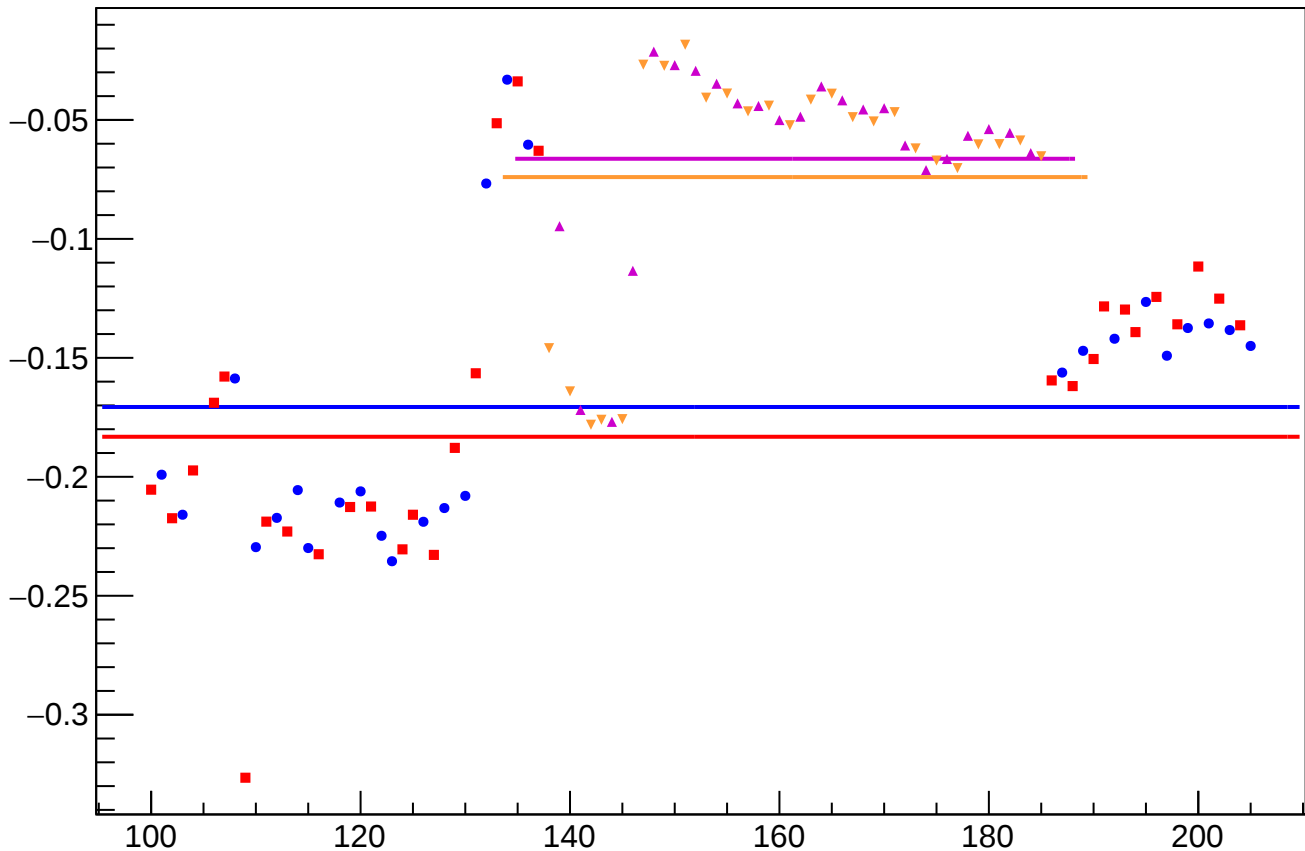
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3732174.1/55

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2512563.4/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3338285.7/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5851802.0/103

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68335067.5/25

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.183+/-0.000 χ^2/NDF : 86269099.9/29

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

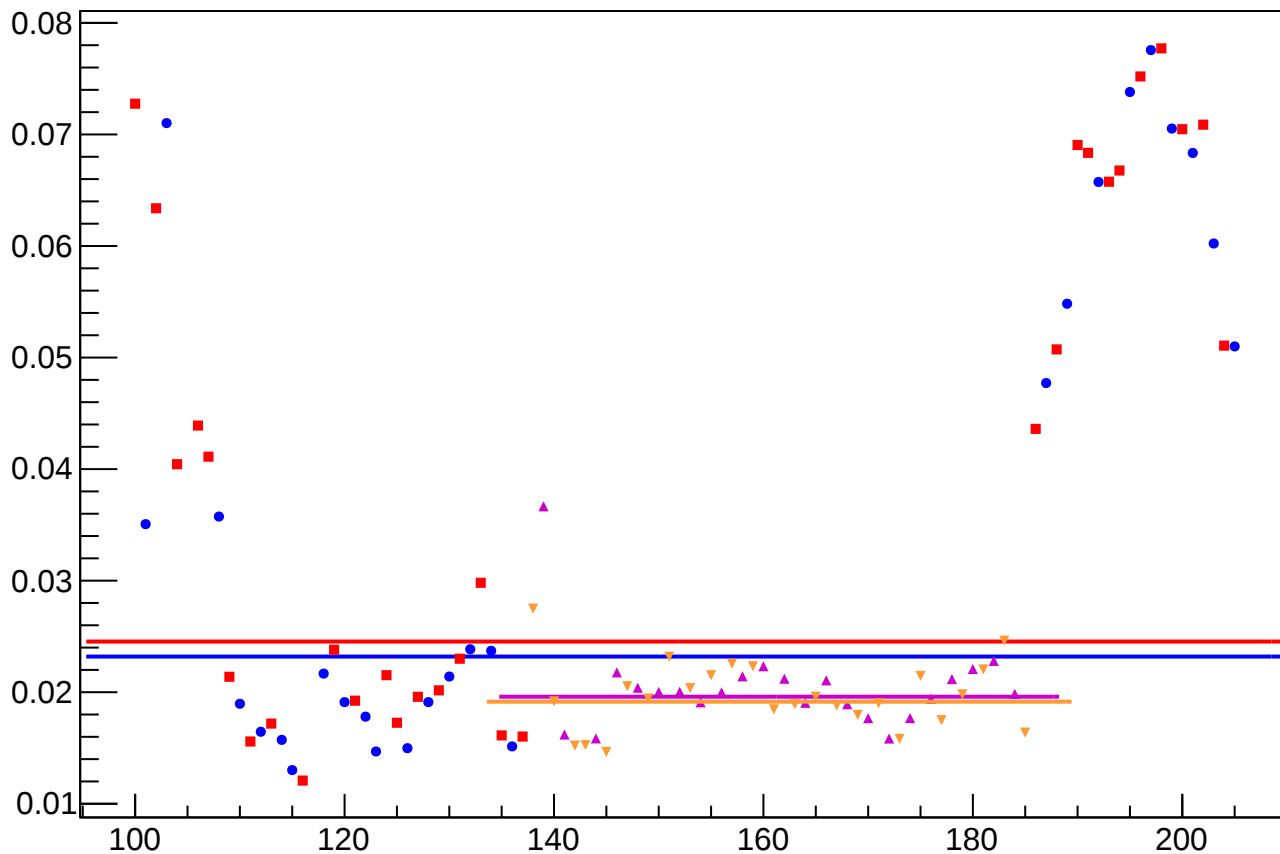
Right: -0.177+/-0.000 χ^2/NDF : 155807355.5/55

In: -0.097+/-0.000 χ^2/NDF : 263805073.6/48

Out: -0.103+/-0.000 χ^2/NDF : 326102534.4/54

All: -0.100+/-0.000 χ^2/NDF : 591010521.8/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6762005.0/25

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7332713.0/29

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

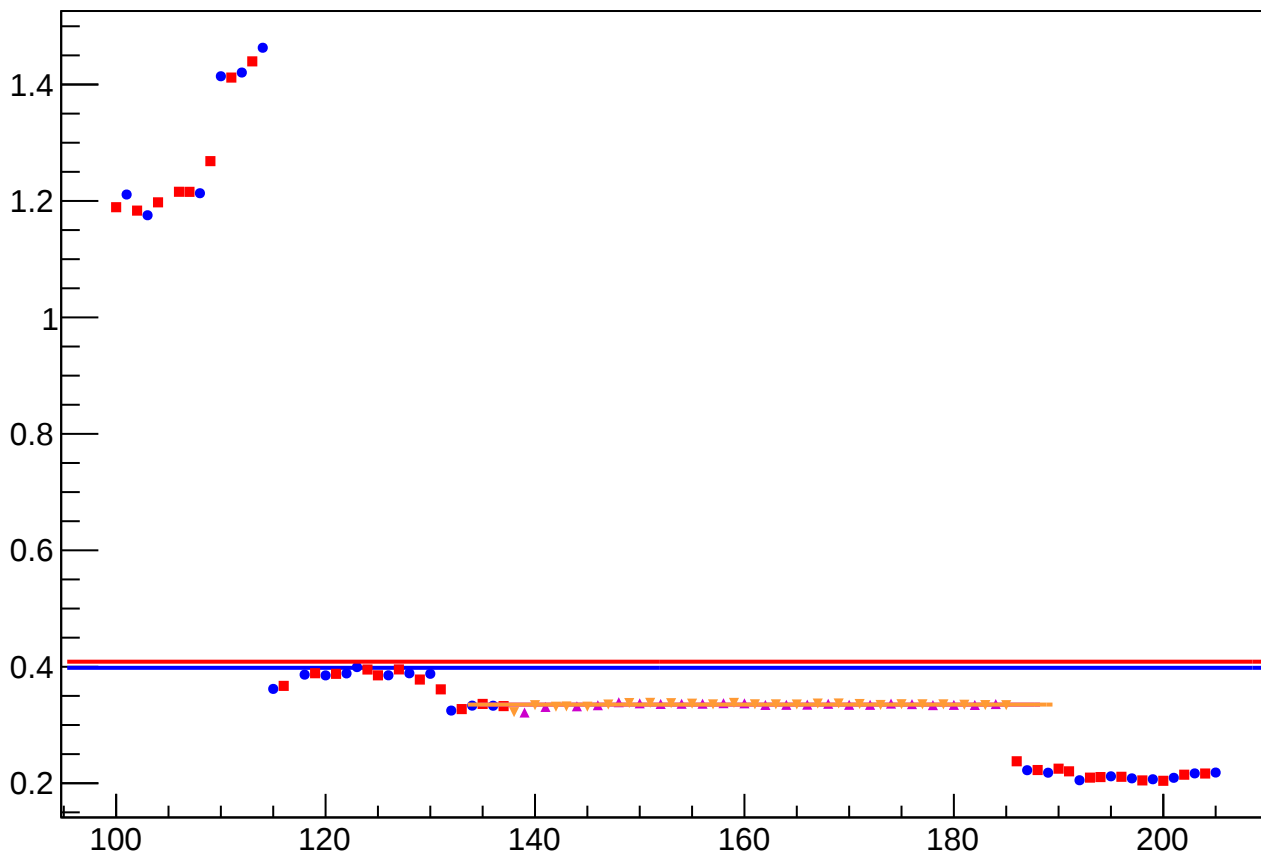
Right: 0.024+/-0.000 χ^2/NDF : 14122542.9/55

In: 0.021+/-0.000 χ^2/NDF : 7668766.3/48

Out: 0.021+/-0.000 χ^2/NDF : 8618942.3/54

All: 0.021+/-0.000 χ^2/NDF : 16287870.7/103

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.398+/-0.000 χ^2/NDF : 7285017612.6/25

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.409+/-0.000 χ^2/NDF : 8381001590.1/29

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

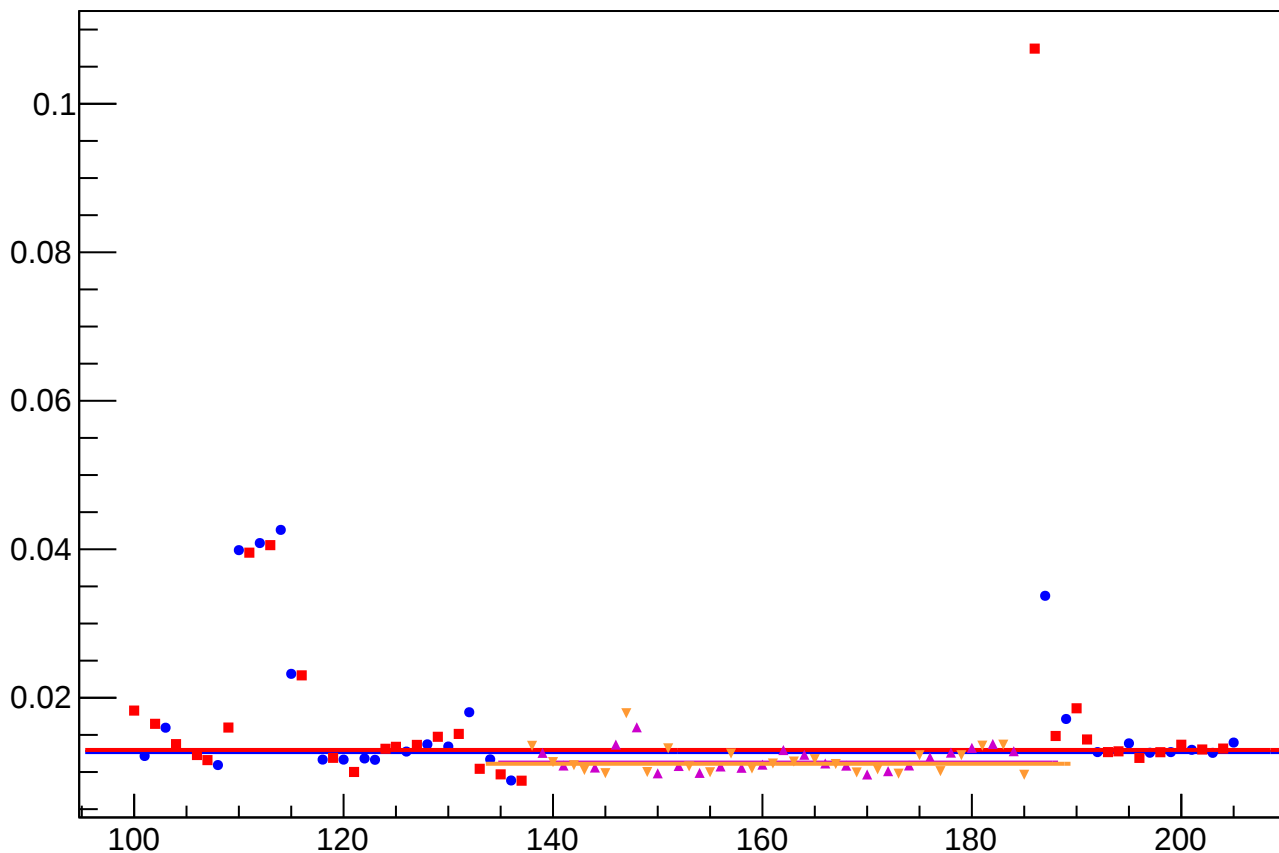
Right: 0.404+/-0.000 χ^2/NDF : 15670046467.5/55

In: 0.358+/-0.000 χ^2/NDF : 7471457370.5/48

Out: 0.360+/-0.000 χ^2/NDF : 8644480585.7/54

All: 0.359+/-0.000 χ^2/NDF : 16116688878.2/100

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1522524.4/25

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:607532.0/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1937637.7/29

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502455.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113465.5/47

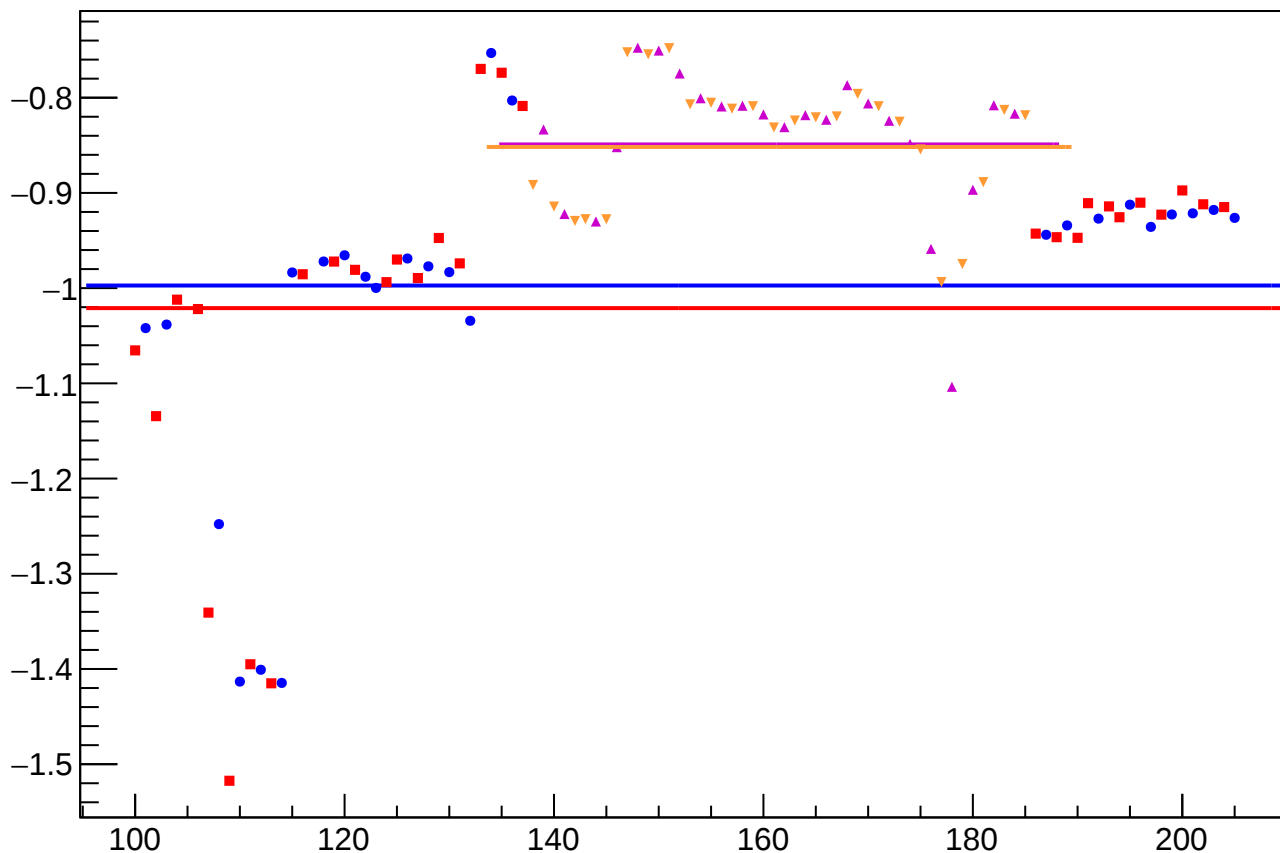
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3466194.2/55

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2209903.6/48

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2879929.8/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5090003.3/103

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.997 $\pm$ 0.000 χ^2 /NDF: 402608203.8/25

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.021 $\pm$ 0.000 χ^2 /NDF: 555973861.2/29

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

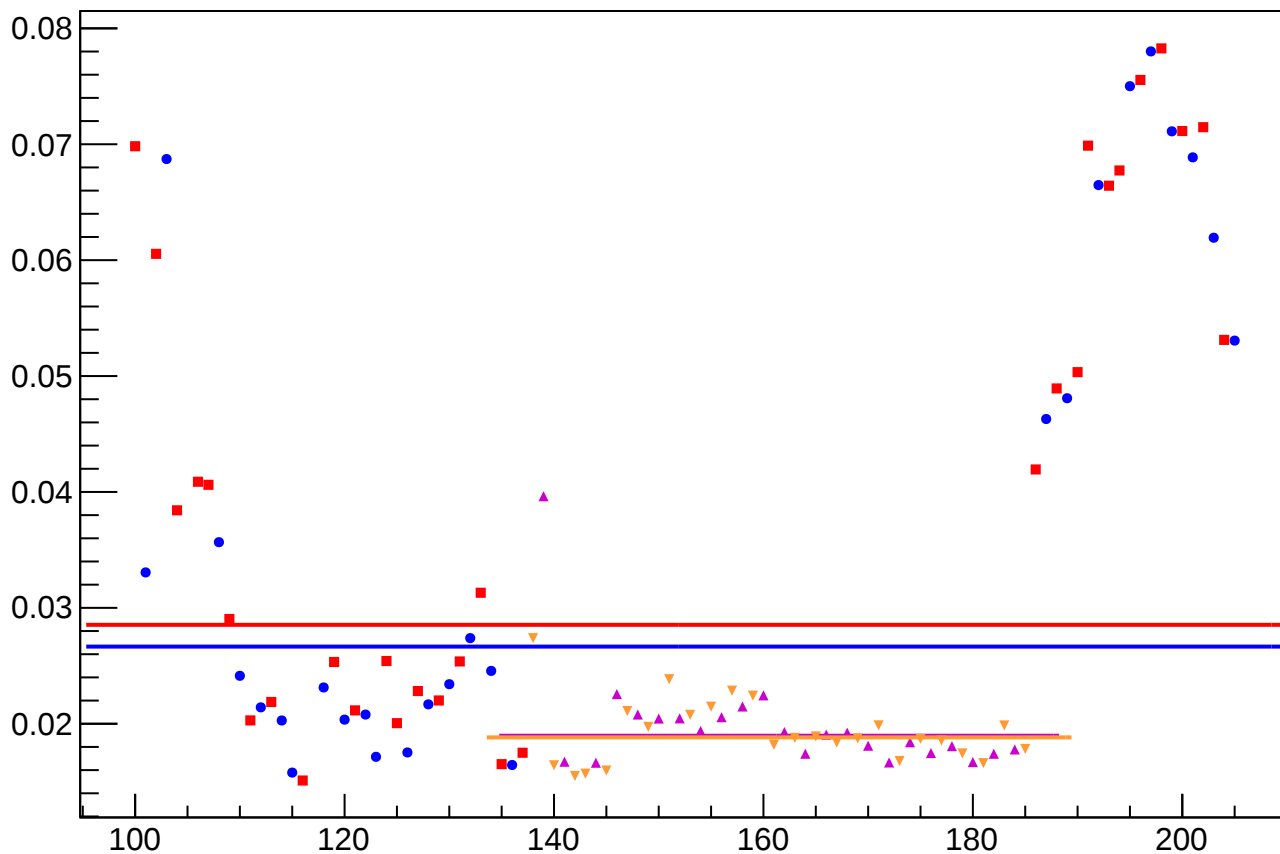
Right: -1.009 $\pm$ 0.000 χ^2 /NDF: 962023147.0/55

In: -0.885 $\pm$ 0.000 χ^2 /NDF:865418686.6/48

Out: -0.890 $\pm$ 0.000 χ^2 /NDF:1012642918.9/54

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1878599736.4/100

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 5792496.7/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.029 $\pm$ 0.000 χ^2 /NDF: 5979183.6/29

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

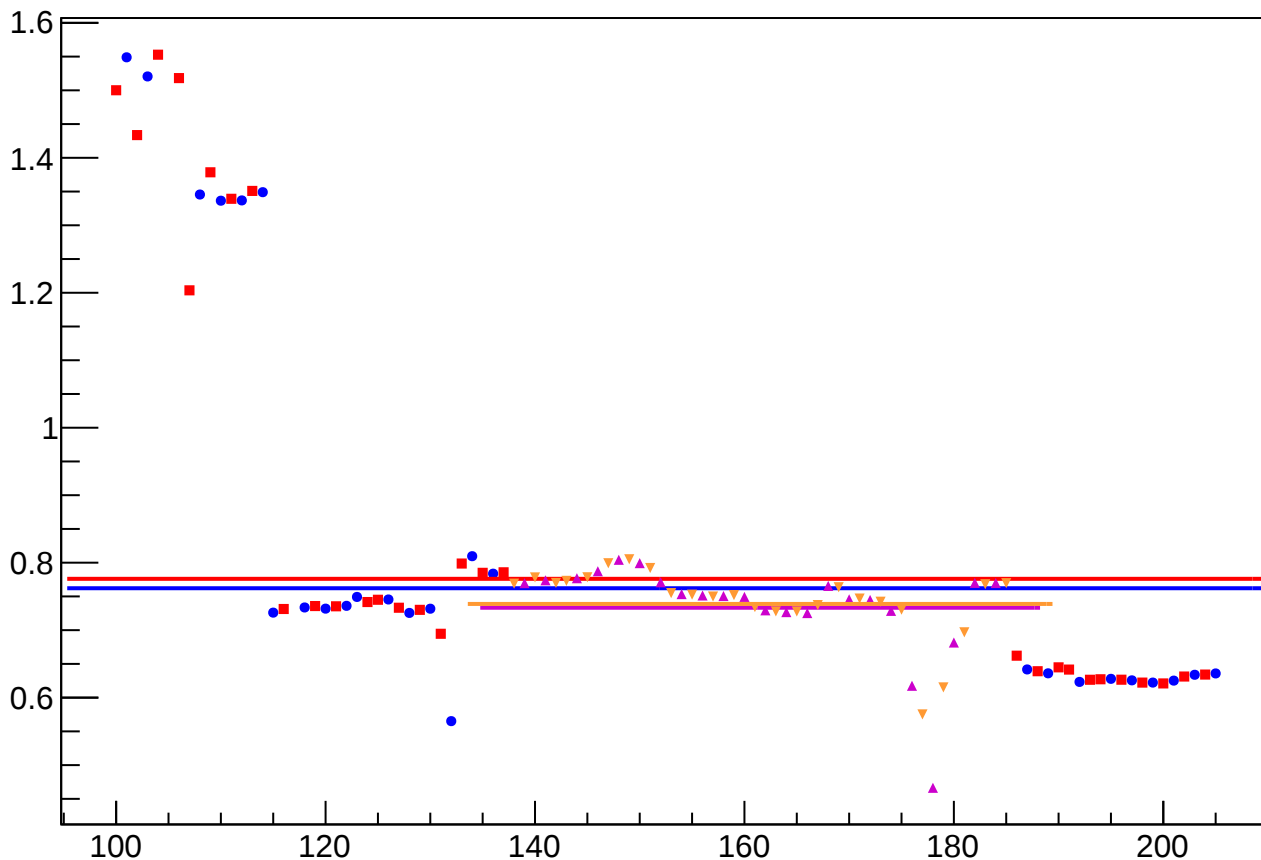
Right: 0.028 $\pm$ 0.000 χ^2 /NDF: 11814776.0/55

In: 0.021 $\pm$ 0.000 χ^2 /NDF:7519953.2/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:8232176.2/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 15753479.8/103

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.762 $\pm$ 0.000 χ^2 /NDF: 3374139475.5/25

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.776 $\pm$ 0.000 χ^2 /NDF: 3681979655.6/29

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

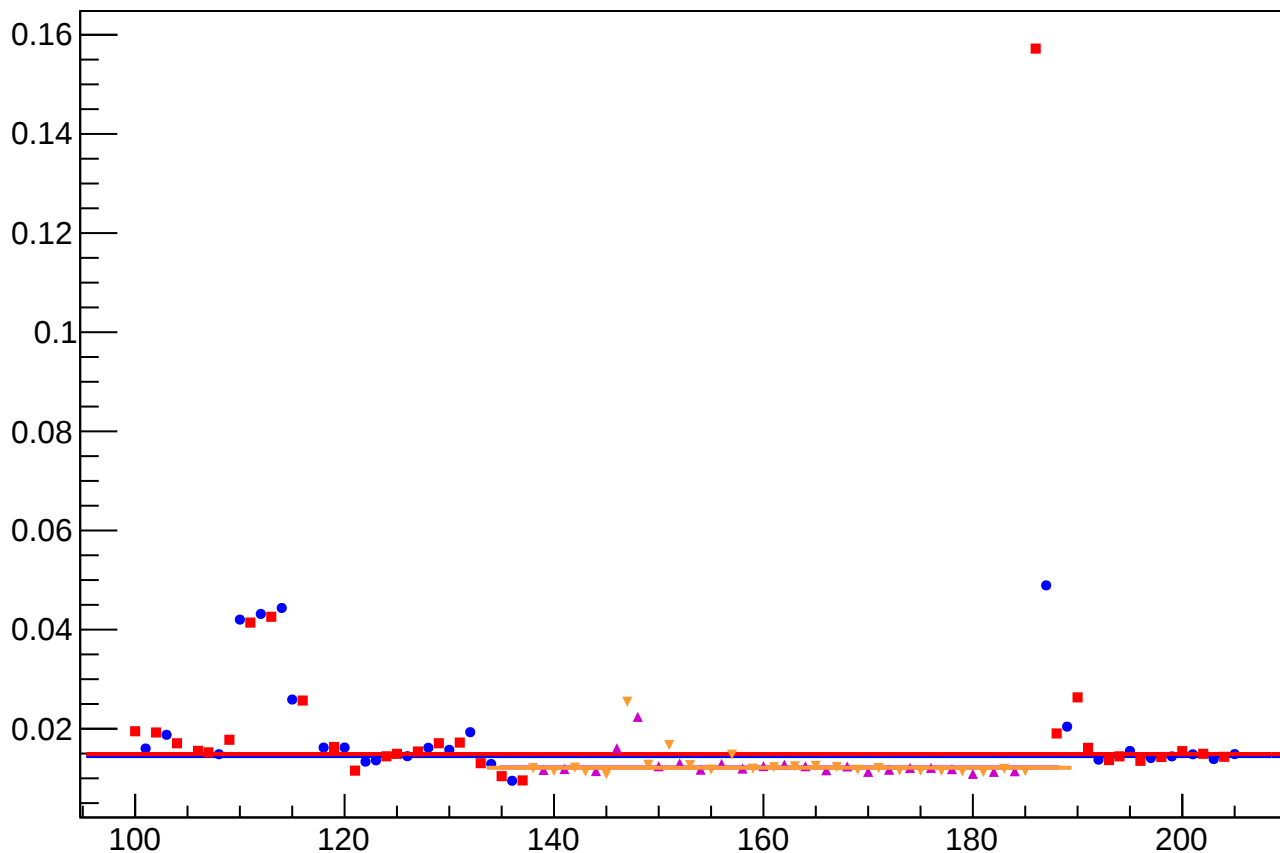
Right: 0.769 $\pm$ 0.000 χ^2 /NDF: 7061504558.2/55

In: 0.743 $\pm$ 0.000 χ^2 /NDF:3974552464.3/48

Out: 0.751 $\pm$ 0.000 χ^2 /NDF:4067560720.4/54

All: 0.747 $\pm$ 0.000 χ^2 /NDF: 8047522160.5/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1640631.4/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2082909.9/29

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

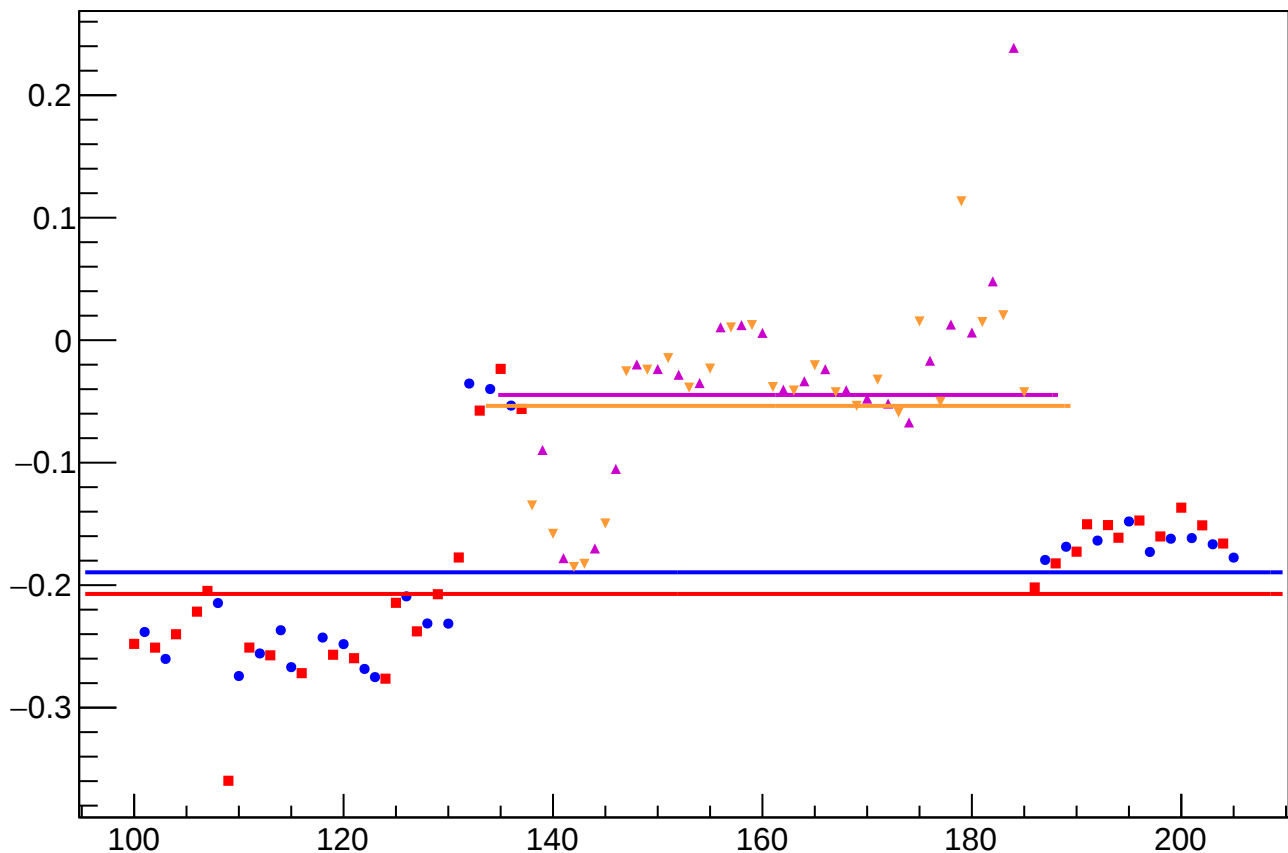
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3733373.2/55

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2512015.9/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3303553.3/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5816485.2/103

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 107169756.0/25$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 114591558.1/29$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

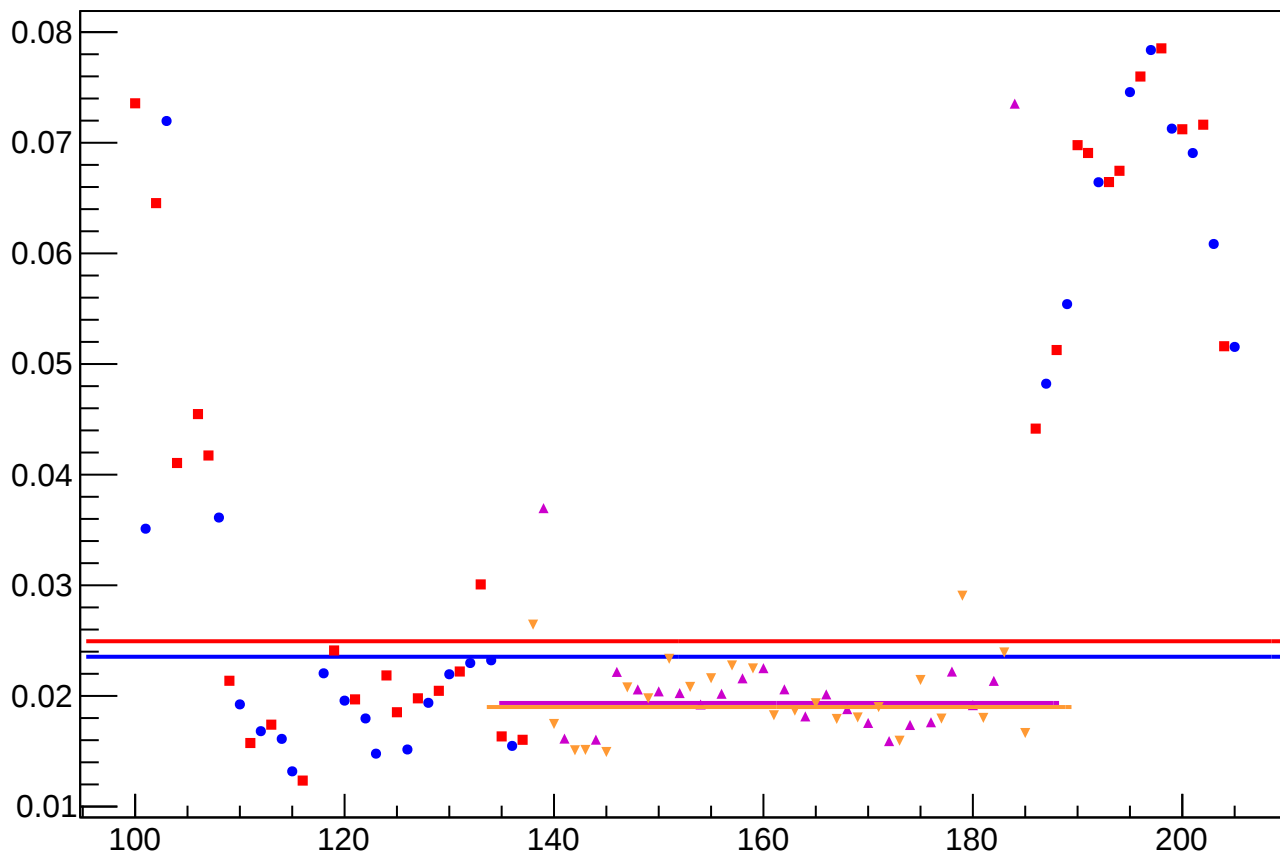
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 224084438.0/55$

In: -0.087 ± 0.000 $\chi^2/\text{NDF}: 459301716.9/48$

Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 536845525.5/54$

All: -0.091 ± 0.000 $\chi^2/\text{NDF}: 997784572.9/10$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 6710369.5/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7290387.0/29

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

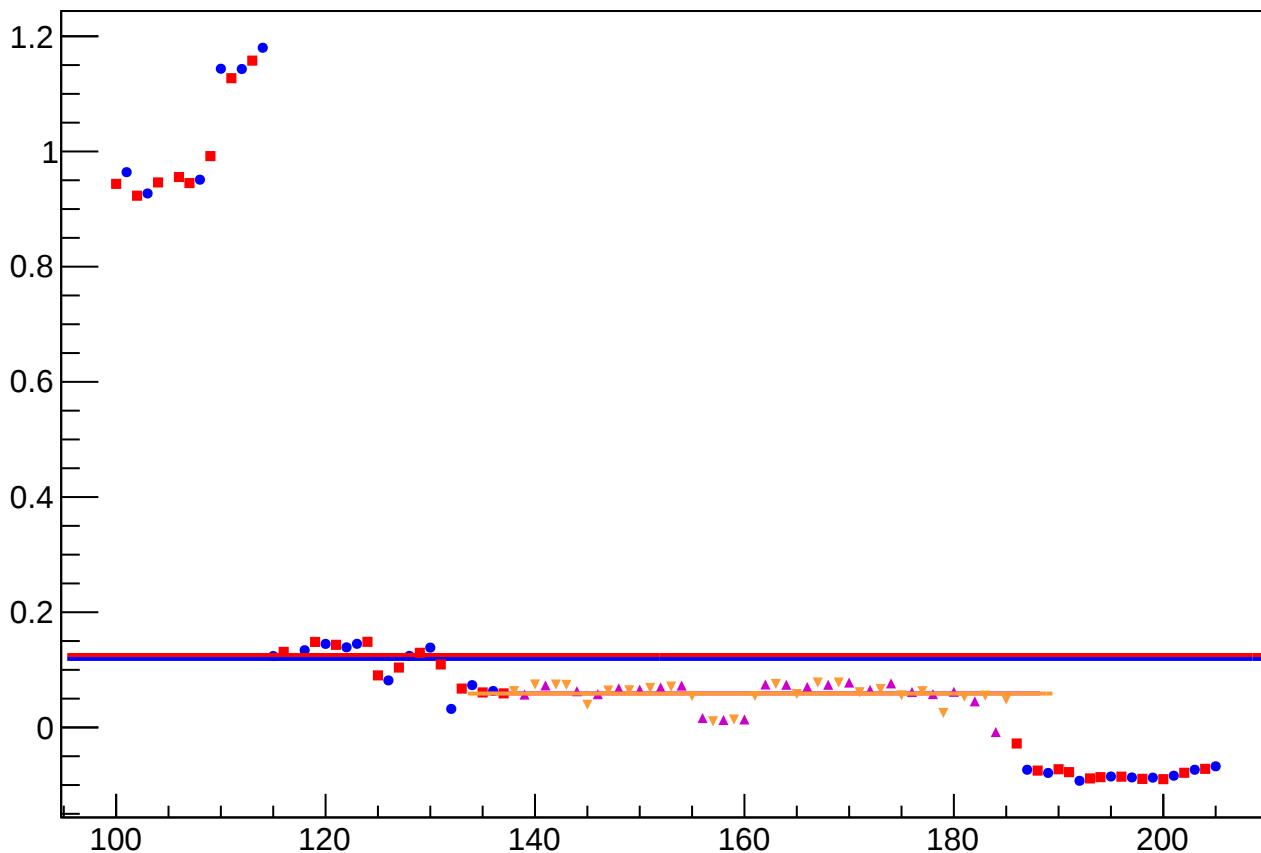
Right: 0.024 $\pm$ 0.000 χ^2 /NDF: 14030077.4/55

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 7942757.1/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 8754122.6/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 16696880.7/103

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.119 $\pm$ 0.000 χ^2/NDF : 7842316497.6/25

Left Out: 0.059 $\pm$ 0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.126 $\pm$ 0.000 χ^2/NDF : 8818476060.3/29

Left In: 0.059 $\pm$ 0.000 χ^2/NDF : 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2/NDF : 105343775.2/47

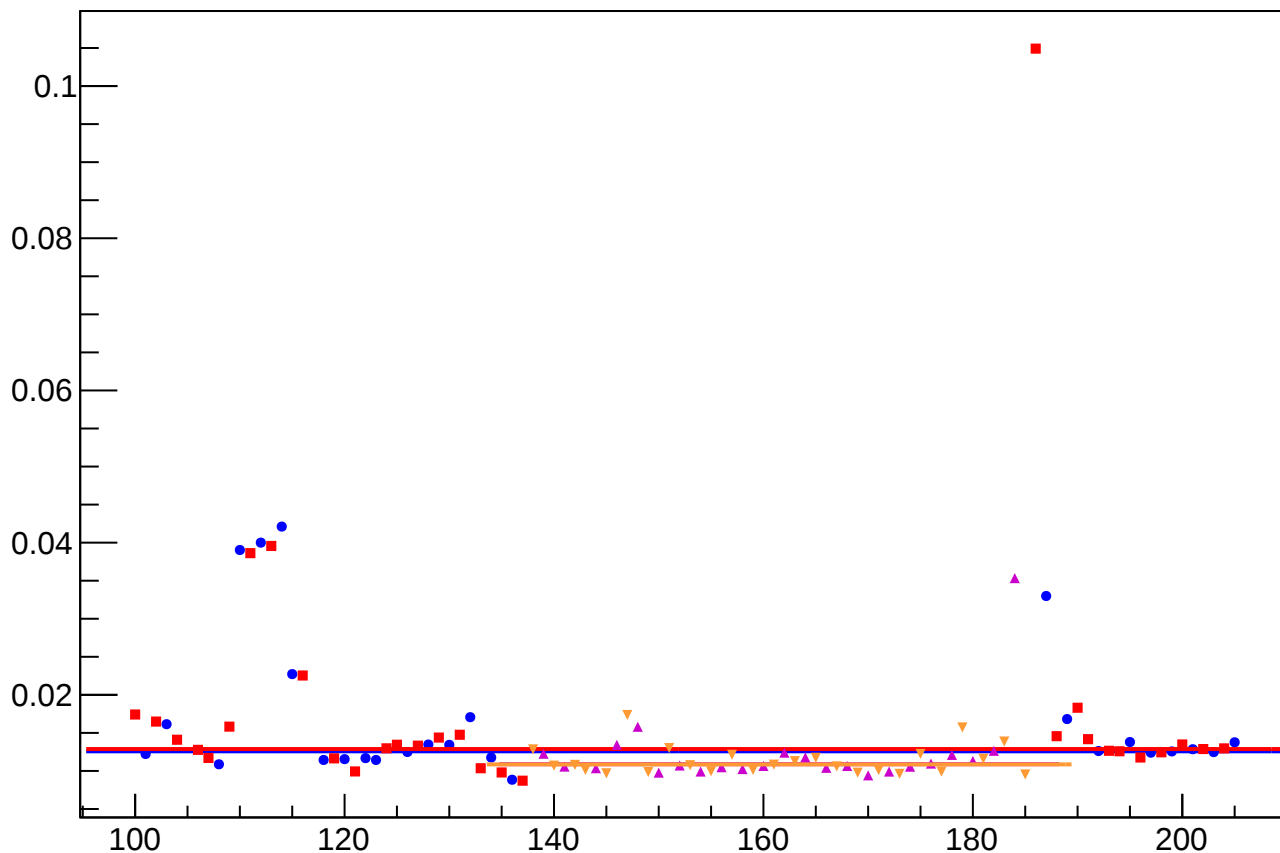
Right: 0.122 $\pm$ 0.000 χ^2/NDF : 16662509691.5/55

In: 0.080 $\pm$ 0.000 χ^2/NDF : 8071587962.6/48

Out: 0.082 $\pm$ 0.000 χ^2/NDF : 9085325719.4/54

All: 0.081 $\pm$ 0.000 χ^2/NDF : 17157192711.9/100

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1487353.9/25

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1892989.5/29

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

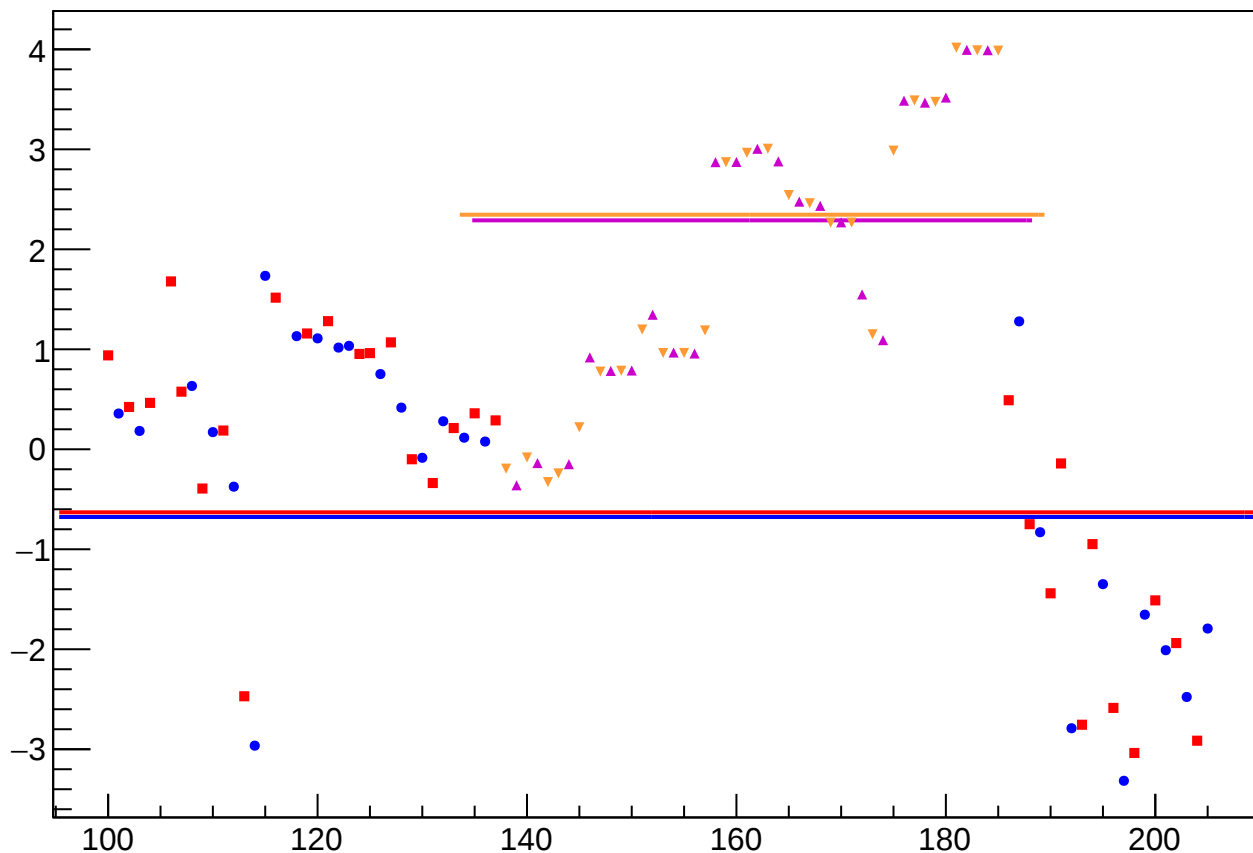
Right: 0.013+/-0.000 χ^2/NDF : 3386853.3/55

In: 0.011+/-0.000 χ^2/NDF : 2289559.7/48

Out: 0.012+/-0.000 χ^2/NDF : 2897606.4/54

All: 0.012+/-0.000 χ^2/NDF : 5188084.7/103

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.677 ± 0.000 $\chi^2/\text{NDF}: 5866768371.7/25$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.631 ± 0.000 $\chi^2/\text{NDF}: 7058473692.7/29$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

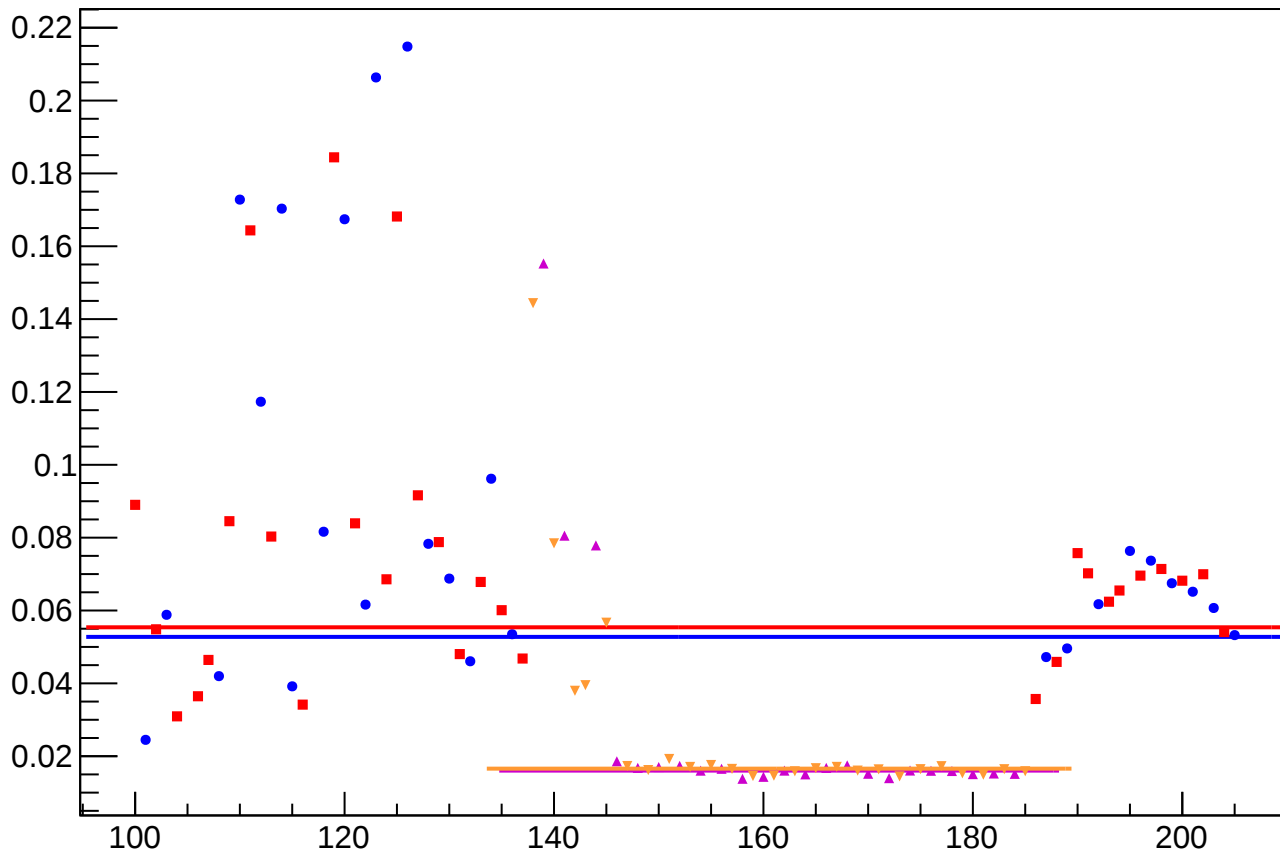
Right: -0.654 ± 0.000 $\chi^2/\text{NDF}: 12928931077.8/55$

In: 2.112 ± 0.000 $\chi^2/\text{NDF}: 93977771763.8/48$

Out: 2.159 ± 0.000 $\chi^2/\text{NDF}: 98928661919.1/54$

All: 2.135 ± 0.000 $\chi^2/\text{NDF}: 192965064383.3$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3499898.2/25

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2836350.2/29

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

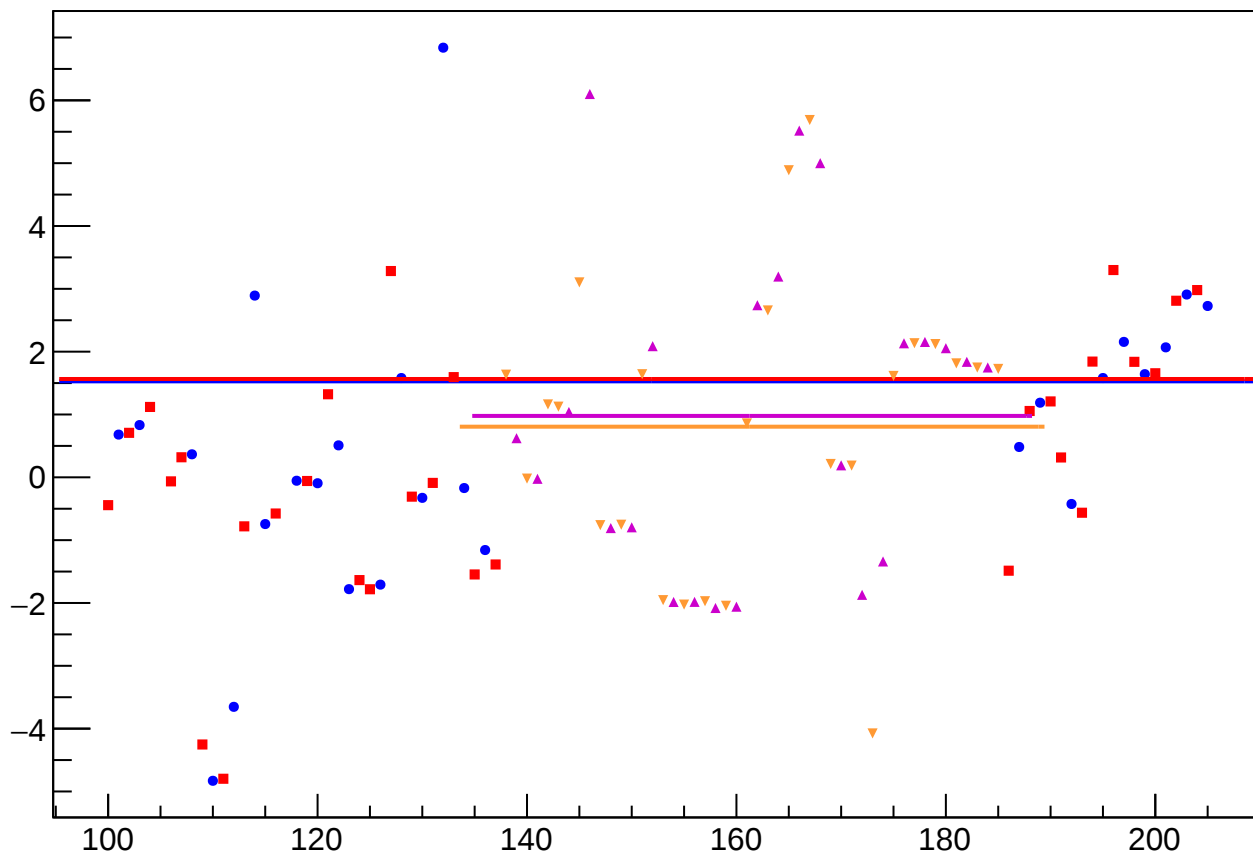
Right: 0.054+/-0.000 χ^2/NDF : 6359491.4/55

In: 0.018+/-0.000 χ^2/NDF : 14233608.8/48

Out: 0.019+/-0.000 χ^2/NDF : 15107775.7/54

All: 0.019+/-0.000 χ^2/NDF : 29375394.8/103

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.528+/-0.000

χ^2/NDF : 30159757507.5/25

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right Out: 1.565+/-0.000

χ^2/NDF : 31507993717.0/29

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

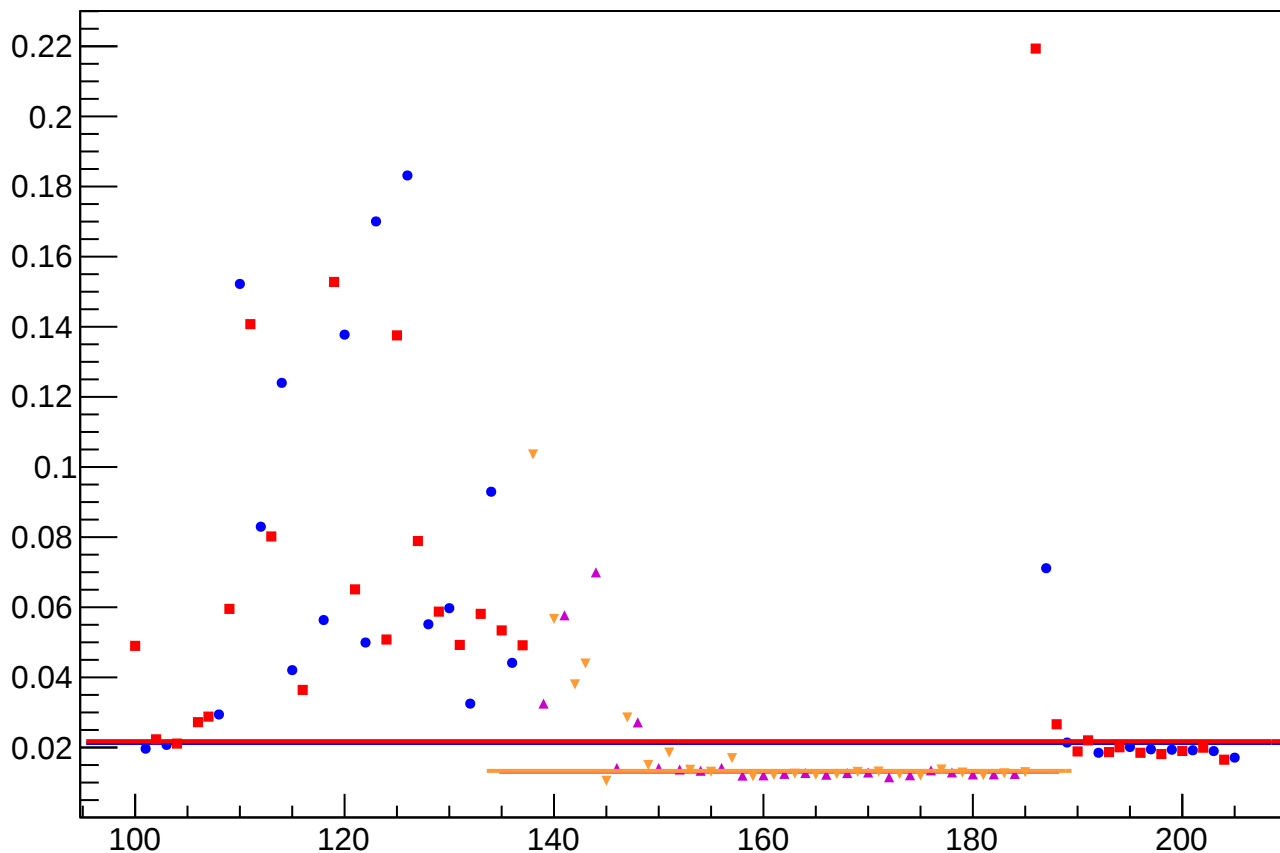
Right: 1.546+/-0.000 χ^2/NDF : 61680961352.9/55

In: 1.076+/-0.000 χ^2/NDF : 602980166629.6/48

Out: 0.945+/-0.000 χ^2/NDF : 548052708792.3/54

All: 1.010+/-0.000 χ^2/NDF : 1151919208544.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3875349.5/25

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4917339.4/29

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

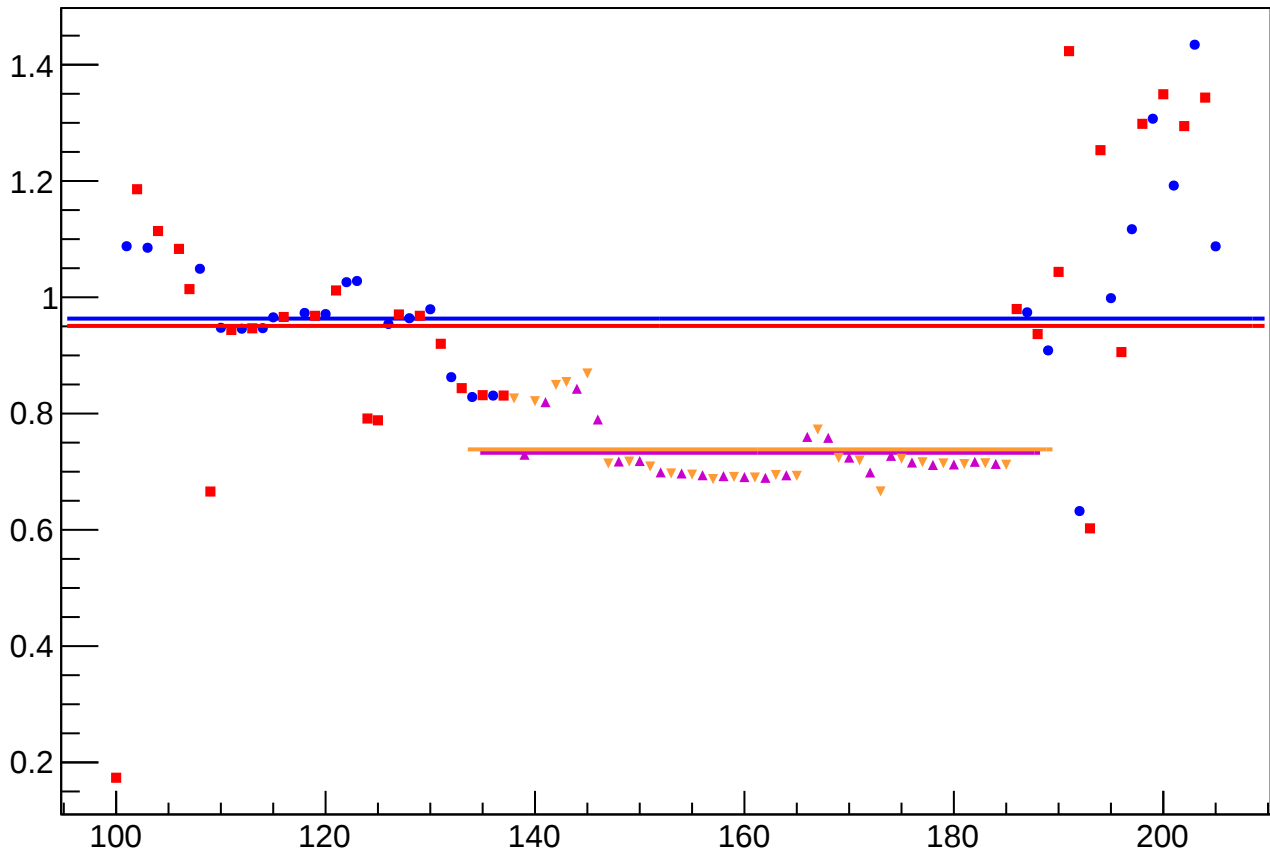
Right: 0.022+/-0.000 χ^2/NDF : 8797958.1/55

In: 0.015+/-0.000 χ^2/NDF : 7847956.2/48

Out: 0.015+/-0.000 χ^2/NDF : 9986313.6/54

All: 0.015+/-0.000 χ^2/NDF : 17843421.2/103

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.963 $\pm$ 0.000 χ^2/NDF : 576630257.9/25

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.951 $\pm$ 0.000 χ^2/NDF : 995231657.9/29

Left In: 0.733 $\pm$ 0.000 χ^2/NDF : 170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 481708989.2/47

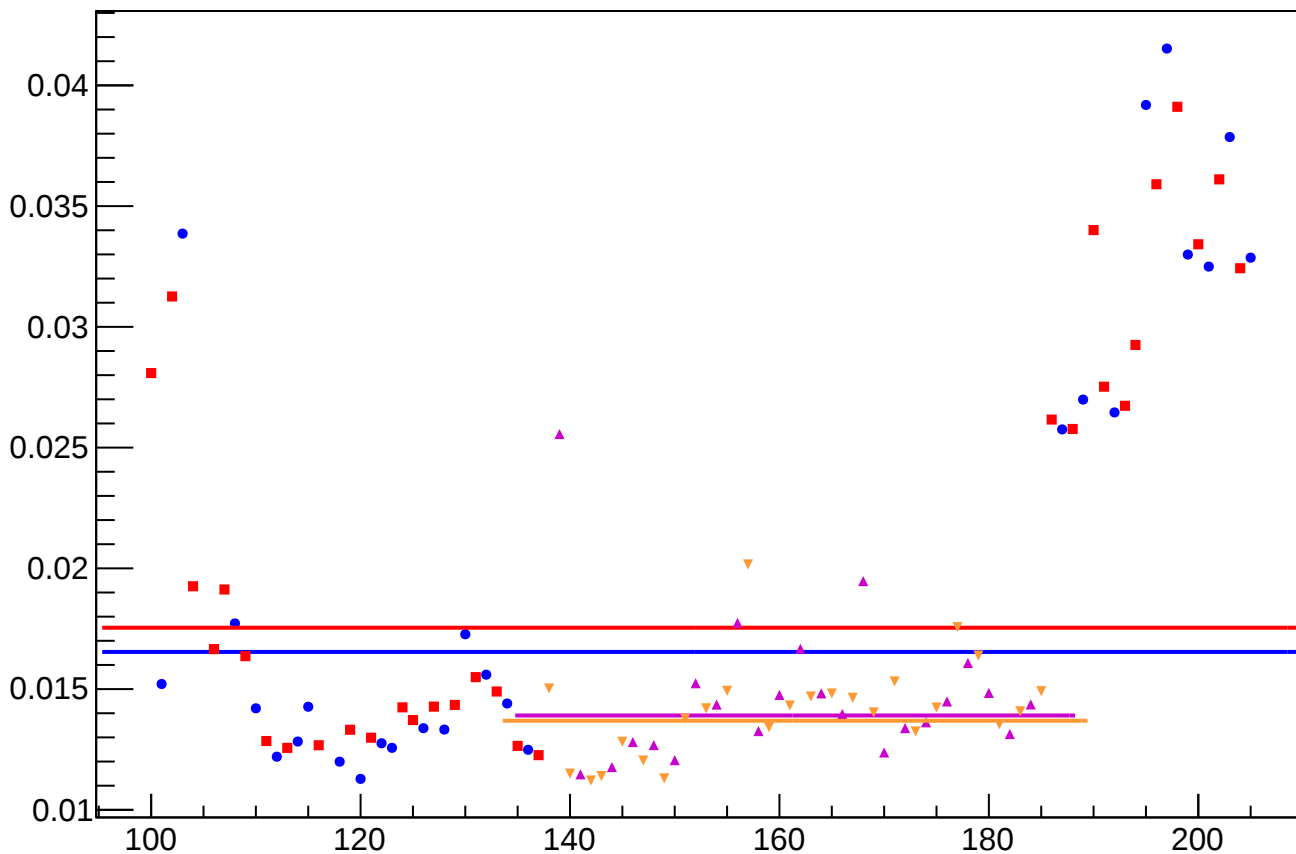
Right: 0.957 $\pm$ 0.000 χ^2/NDF : 1574741584.4/55

In: 0.805 $\pm$ 0.000 χ^2/NDF : 2079300008.1/48

Out: 0.801 $\pm$ 0.000 χ^2/NDF : 2459142827.3/54

All: 0.803 $\pm$ 0.000 χ^2/NDF : 4539194864.3/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4019984.8/25

Left Out: 0.014+/-0.000 χ^2/NDF :528480.6/24

Right Out: 0.018+/-0.000 χ^2/NDF : 3702664.7/29

Left In: 0.014+/-0.000 χ^2/NDF :768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

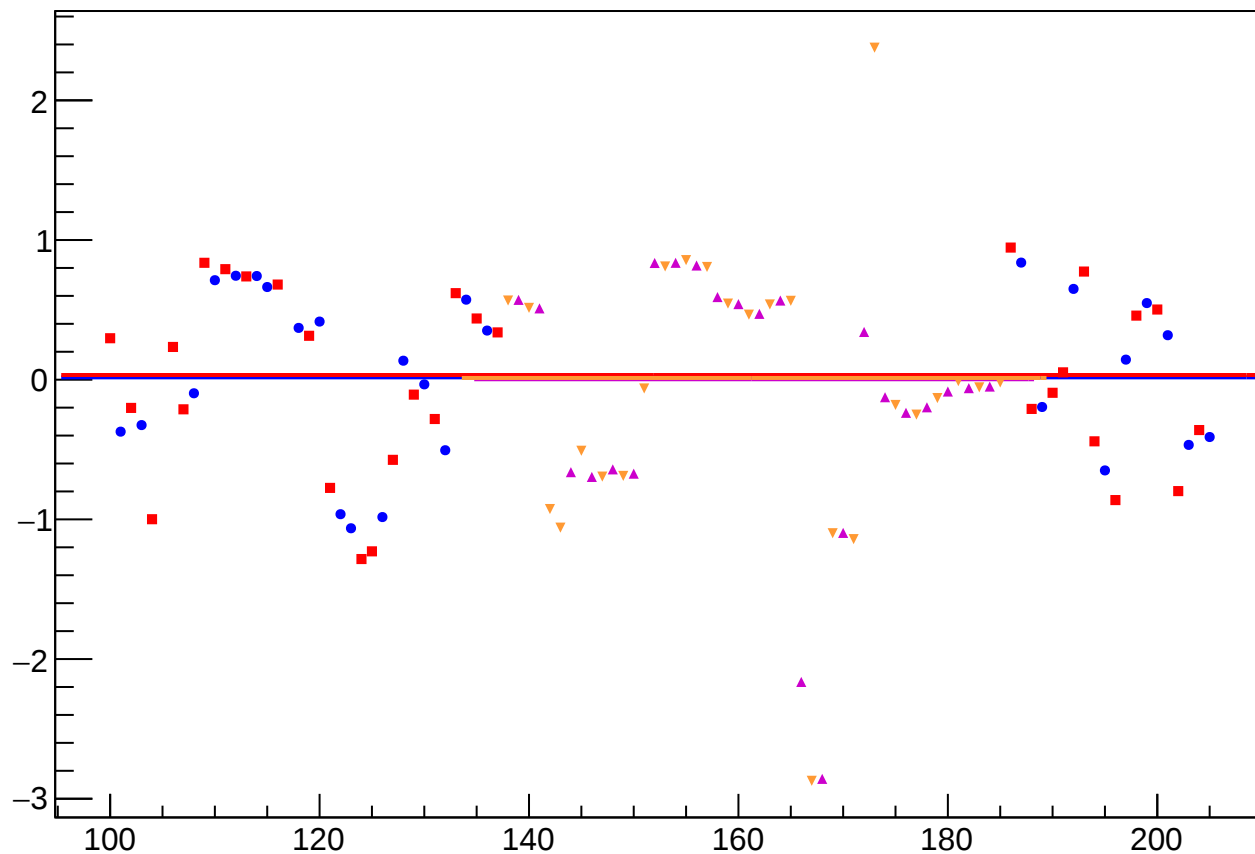
Right: 0.017+/-0.000 χ^2/NDF : 7759255.7/55

In: 0.015+/-0.000 χ^2/NDF :5134735.9/48

Out: 0.015+/-0.000 χ^2/NDF :4990193.3/54

All: 0.015+/-0.000 χ^2/NDF : 10126114.9/103

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000

χ^2/NDF : 17918212385.1/25

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.025+/-0.000 χ^2/NDF : 46097344566.6/55

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.009+/-0.000 χ^2/NDF : 96752541146.7/48

Right Out: 0.034+/-0.000

χ^2/NDF : 28168823121.3/29

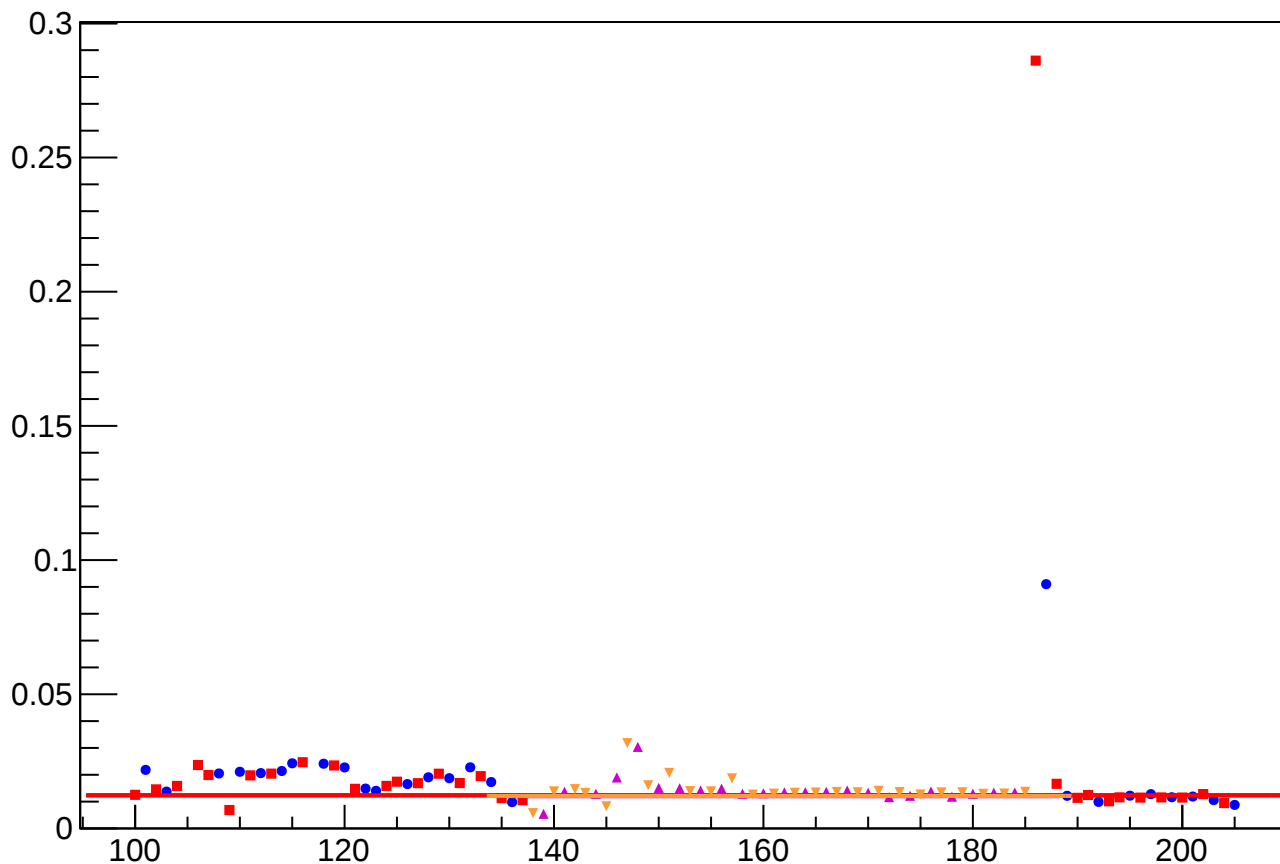
Out: 0.021+/-0.000 χ^2/NDF : 124572667492.5/54

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.015+/-0.000 χ^2/NDF : 221338959033.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2233042.7/25

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2655396.3/29

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

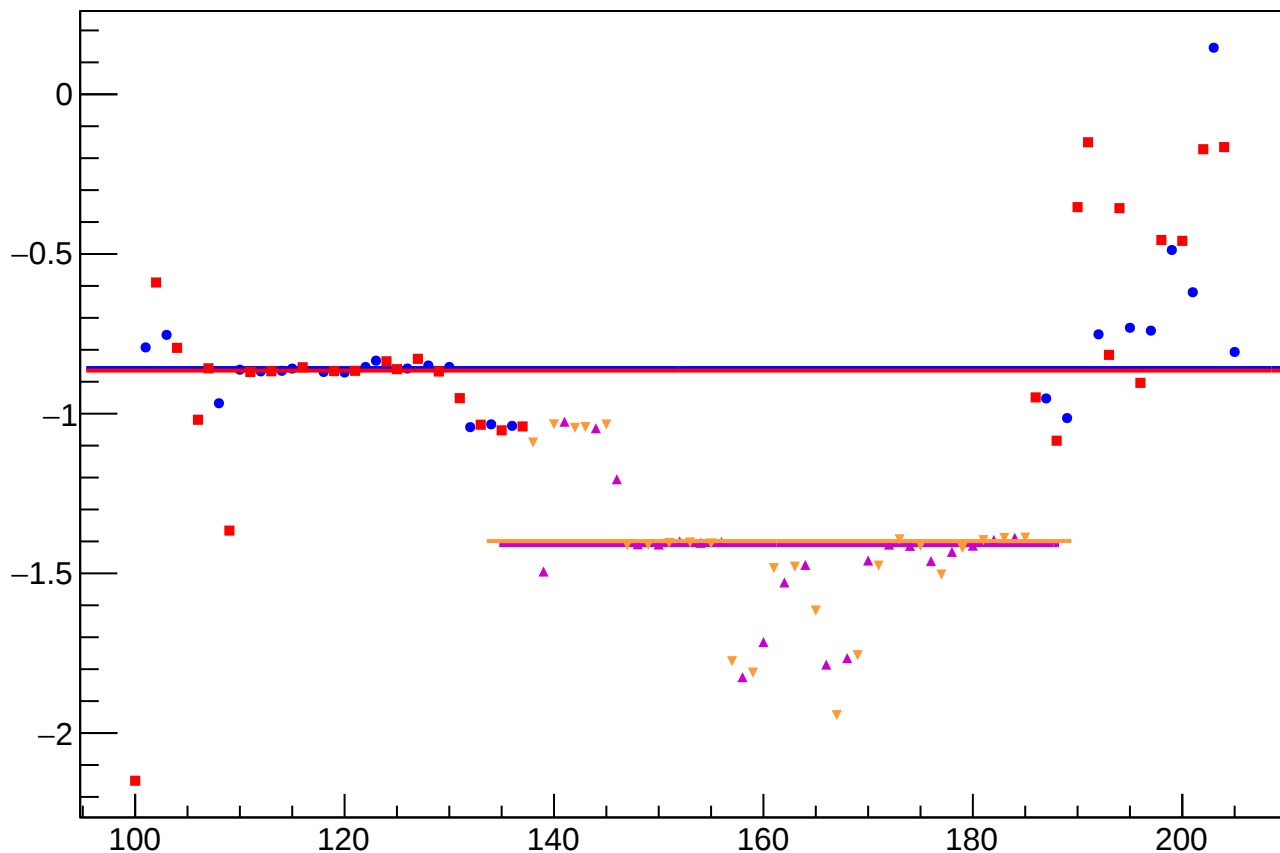
Right: 0.012+/-0.000 χ^2/NDF : 4888460.9/55

In: 0.012+/-0.000 χ^2/NDF :5246190.4/48

Out: 0.012+/-0.000 χ^2/NDF :5766023.9/54

All: 0.012+/-0.000 χ^2/NDF : 11013168.2/103

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.857+/-0.000 χ^2/NDF : 170215323.7/25

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.865+/-0.000 χ^2/NDF : 368270105.8/29

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

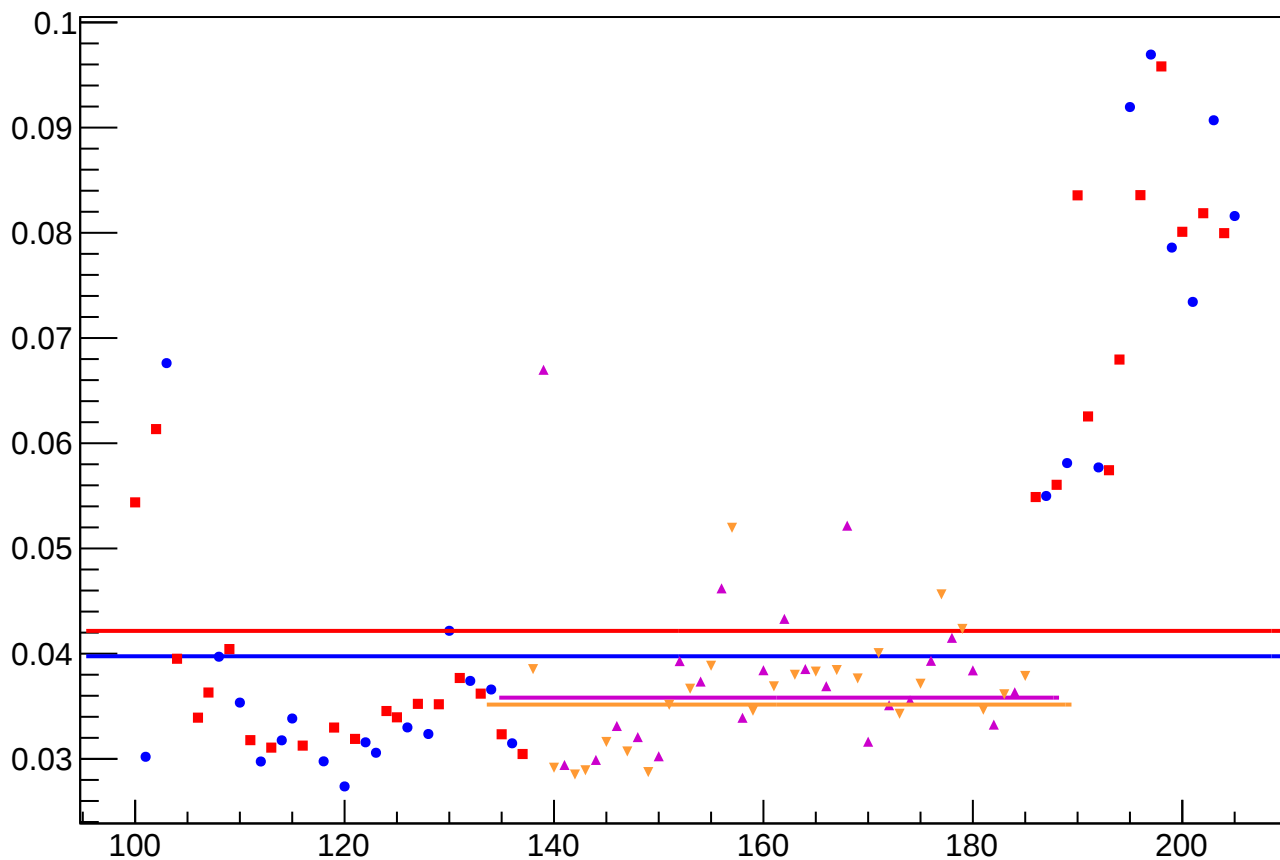
Right: -0.861+/-0.000 χ^2/NDF : 538689575.2/55

In: -1.217+/-0.000 χ^2/NDF : 1964559282.0/48

Out: -1.222+/-0.000 χ^2/NDF : 2327837773.3/54

All: -1.220+/-0.000 χ^2/NDF : 4292642983.6/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.000 χ^2 /NDF: 3678131.7/25

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 3204520.6/29

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

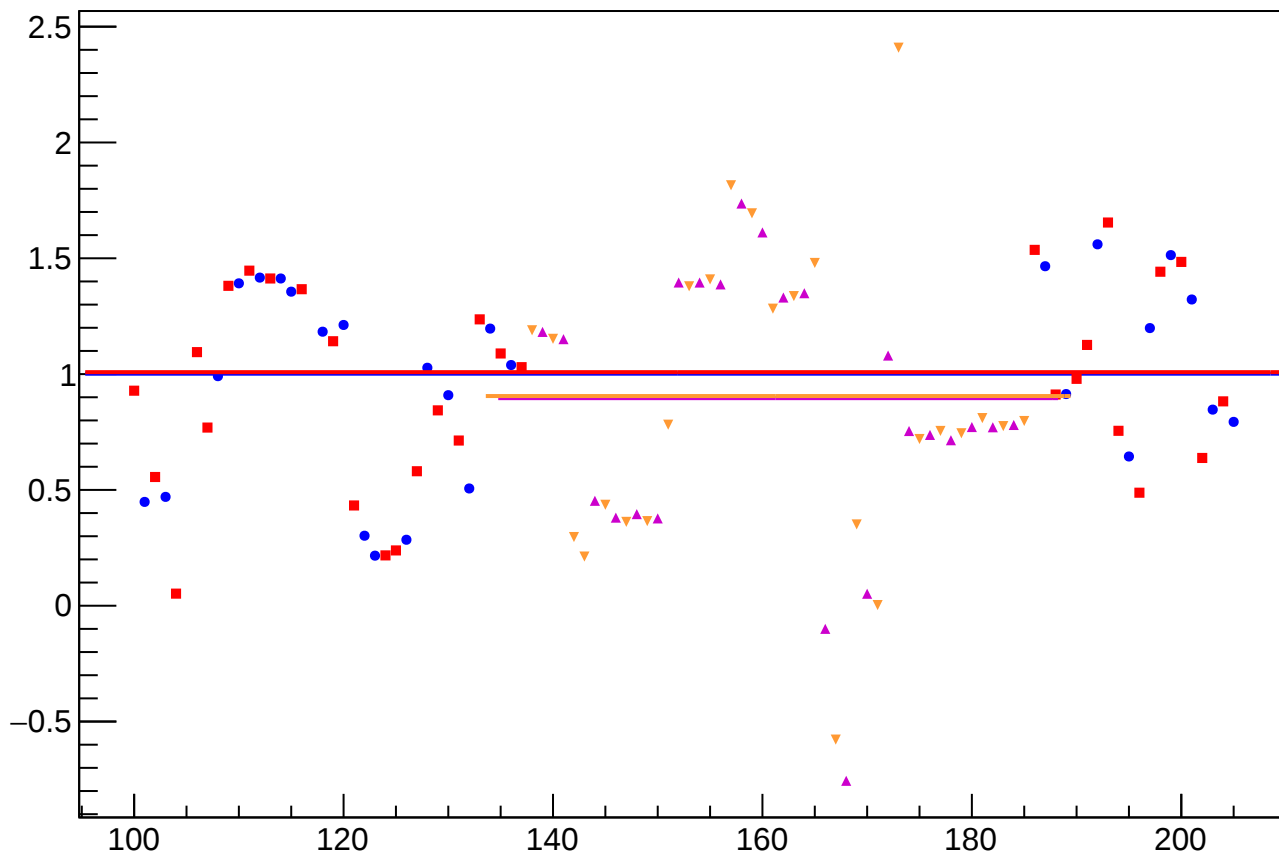
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 6919942.9/55

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4671397.0/48

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:4220382.1/54

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 8893247.2/103

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.002 $\pm$ 0.000

χ^2 /NDF: 20491208723.2/25

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 1.005 $\pm$ 0.000 χ^2 /NDF: 45830242896.2/55

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.944 $\pm$ 0.000 χ^2 /NDF: 88116413256.1/48

Right Out: 1.008 $\pm$ 0.000

χ^2 /NDF: 25335455317.6/29

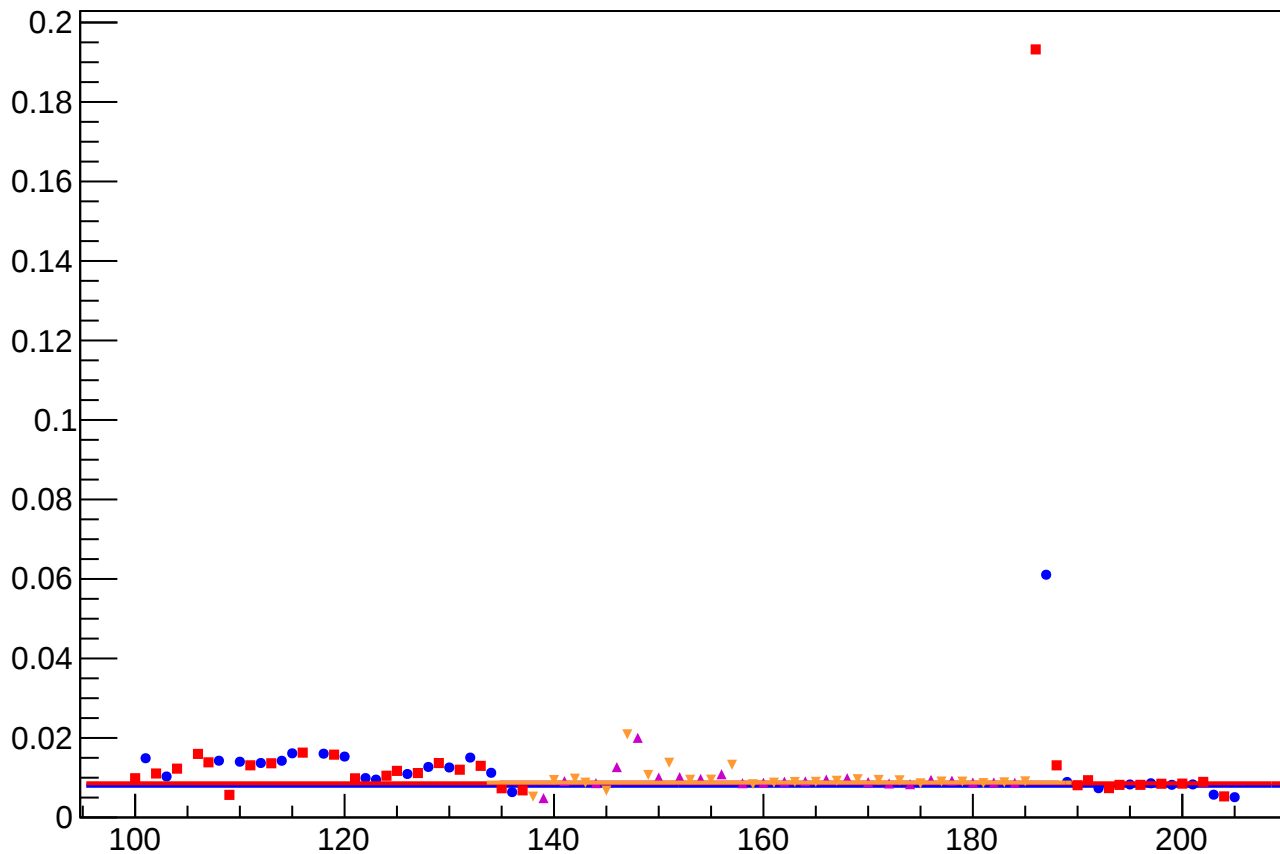
Out: 0.948 $\pm$ 0.000 χ^2 /NDF: 110574847298.8/54

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.946 $\pm$ 0.000 χ^2 /NDF: 198695095154.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2761998.5/25

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2793719.4/29

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

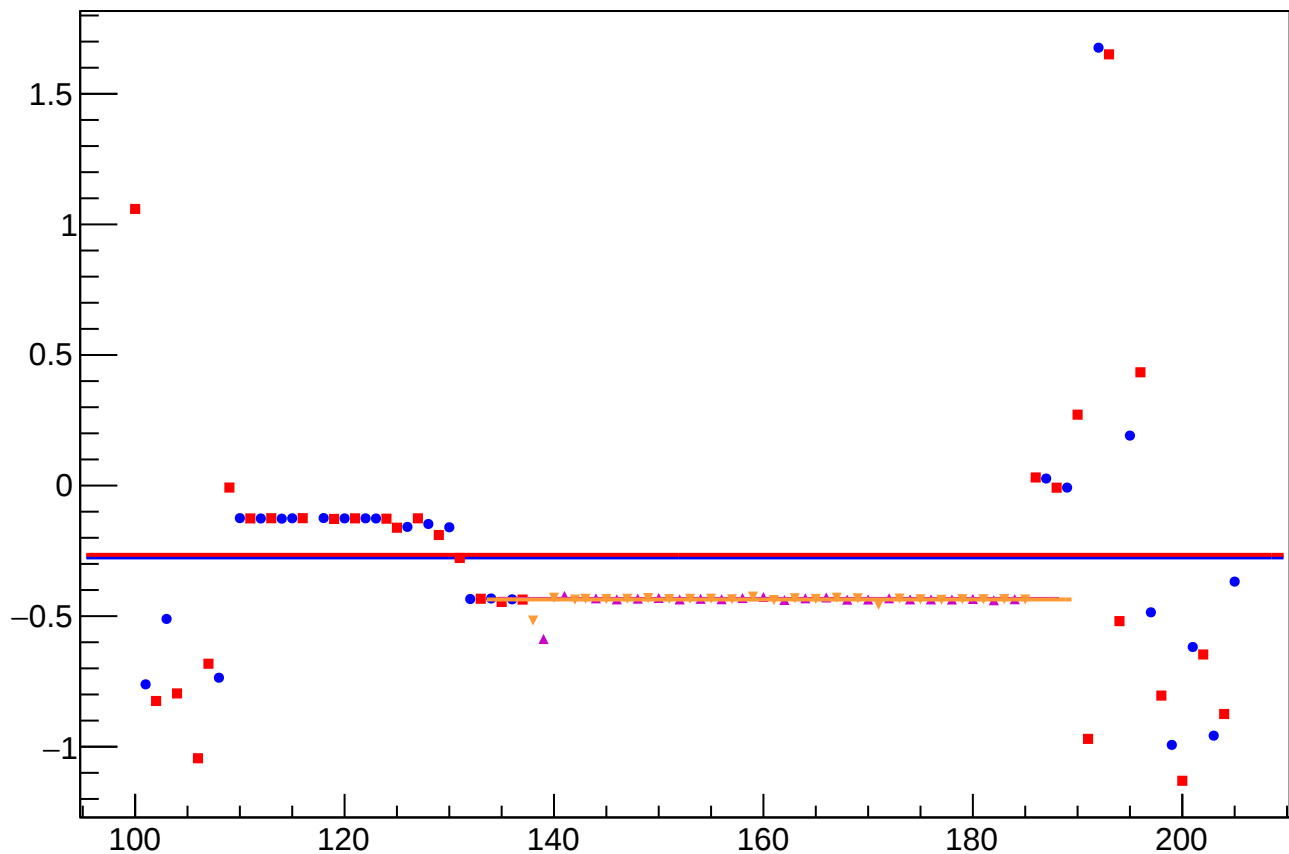
Right: 0.008+/-0.000 χ^2/NDF : 5618910.5/55

In: 0.008+/-0.000 χ^2/NDF :4488764.8/48

Out: 0.009+/-0.000 χ^2/NDF :4497491.3/54

All: 0.009+/-0.000 χ^2/NDF : 9017915.1/103

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.275+/-0.000 χ^2/NDF : 2143177616.4/25

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.265+/-0.000 χ^2/NDF : 2157977316.3/29

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

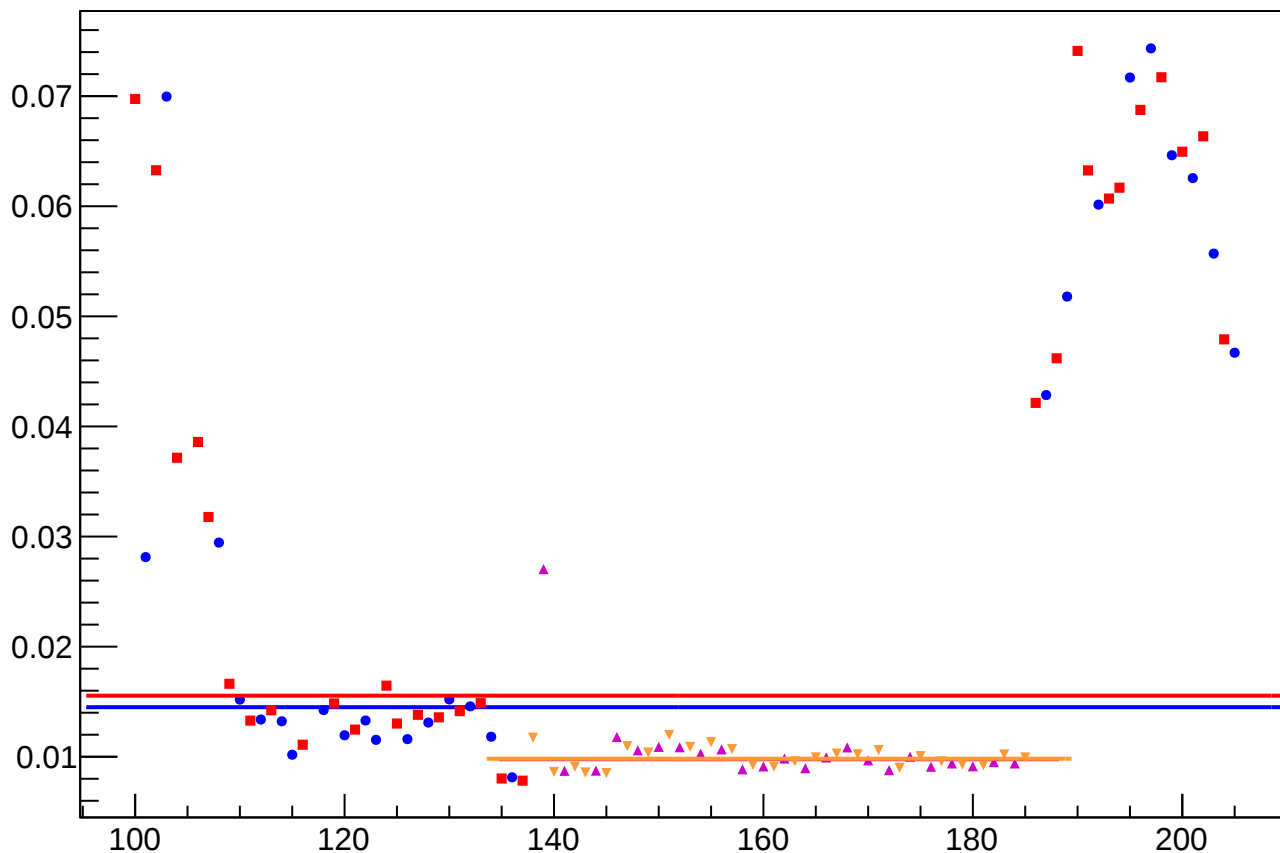
Right: -0.270+/-0.000 χ^2/NDF : 4302752123.8/55

In: -0.405+/-0.000 χ^2/NDF : 2864682107.9/48

Out: -0.408+/-0.000 χ^2/NDF : 2964378733.9/54

All: -0.407+/-0.000 χ^2/NDF : 5829858781.3/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 8984225.5/25

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 9829587.2/29

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1017115.3/47

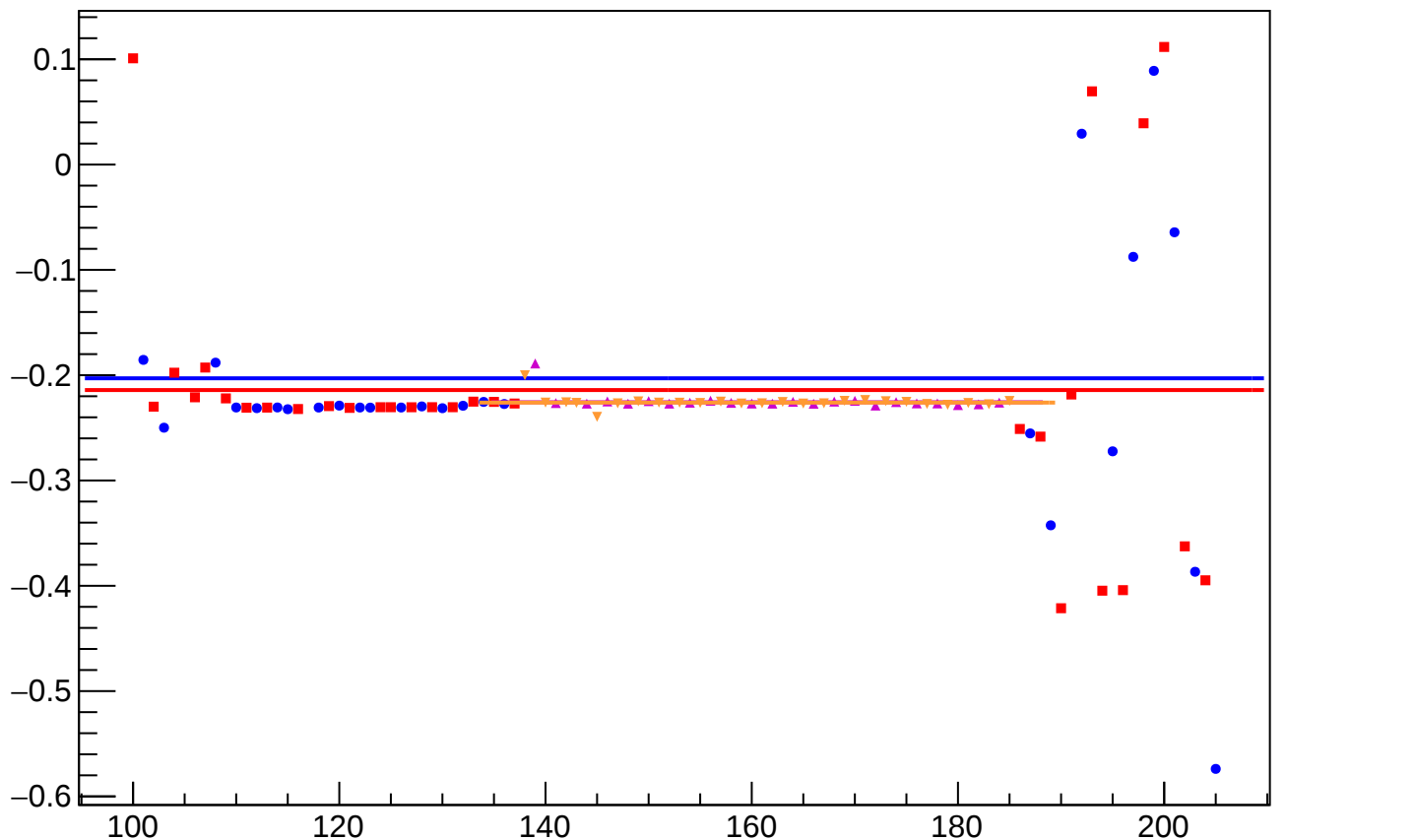
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 18849580.2/55

In: 0.011 $\pm$ 0.000 χ^2/NDF :10965492.4/48

Out: 0.011 $\pm$ 0.000 χ^2/NDF :11843475.1/54

All: 0.011 $\pm$ 0.000 χ^2/NDF : 22812104.8/103

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.203 ± 0.000 $\chi^2/\text{NDF}: 7600111179.8/25$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21205667.4/24$

Right Out: -0.214 ± 0.000 $\chi^2/\text{NDF}: 8458120657.8/29$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 15245251.1/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 36480793.2/47$

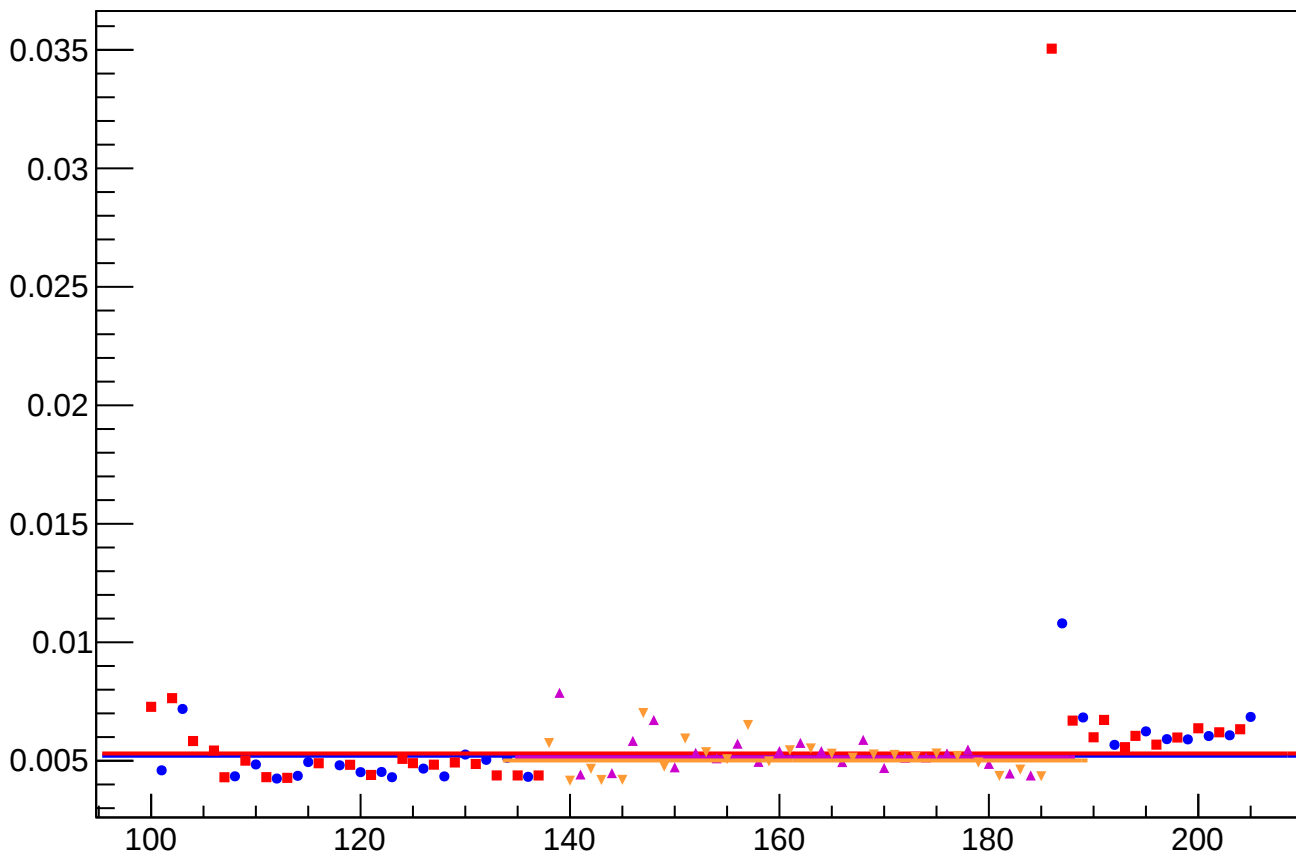
Right: -0.209 ± 0.000 $\chi^2/\text{NDF}: 16085729594.5/55$

In: -0.216 ± 0.000 $\chi^2/\text{NDF}: 7746879684.6/48$

Out: -0.221 ± 0.000 $\chi^2/\text{NDF}: 8517794720.5/54$

All: -0.219 ± 0.000 $\chi^2/\text{NDF}: 16278216932.1/100$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 702424.9/25

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1167146.5/29

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

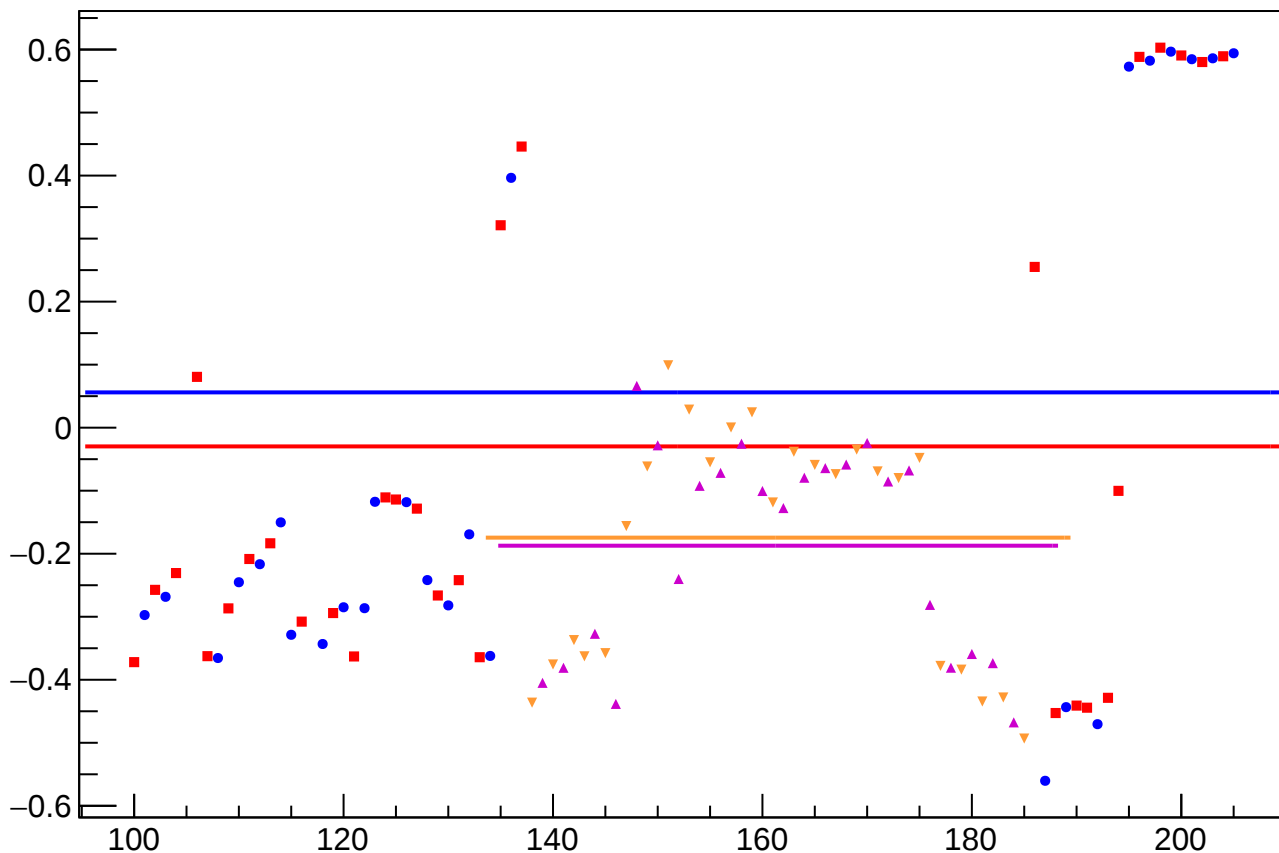
Right: 0.005+/-0.000 χ^2/NDF : 1873620.8/55

In: 0.005+/-0.000 χ^2/NDF : 1197760.8/48

Out: 0.005+/-0.000 χ^2/NDF : 1744992.6/54

All: 0.005+/-0.000 χ^2/NDF : 2944784.2/103

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 52411010643.7/25

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.011+/-0.000

χ^2/NDF : 100835584668.5/55

Right Out: -0.030+/-0.000

χ^2/NDF : 47374401162.3/29

In: -0.107+/-0.000

χ^2/NDF : 75979250000.8/48

Out: -0.125+/-0.000

χ^2/NDF : 69547395525.0/54

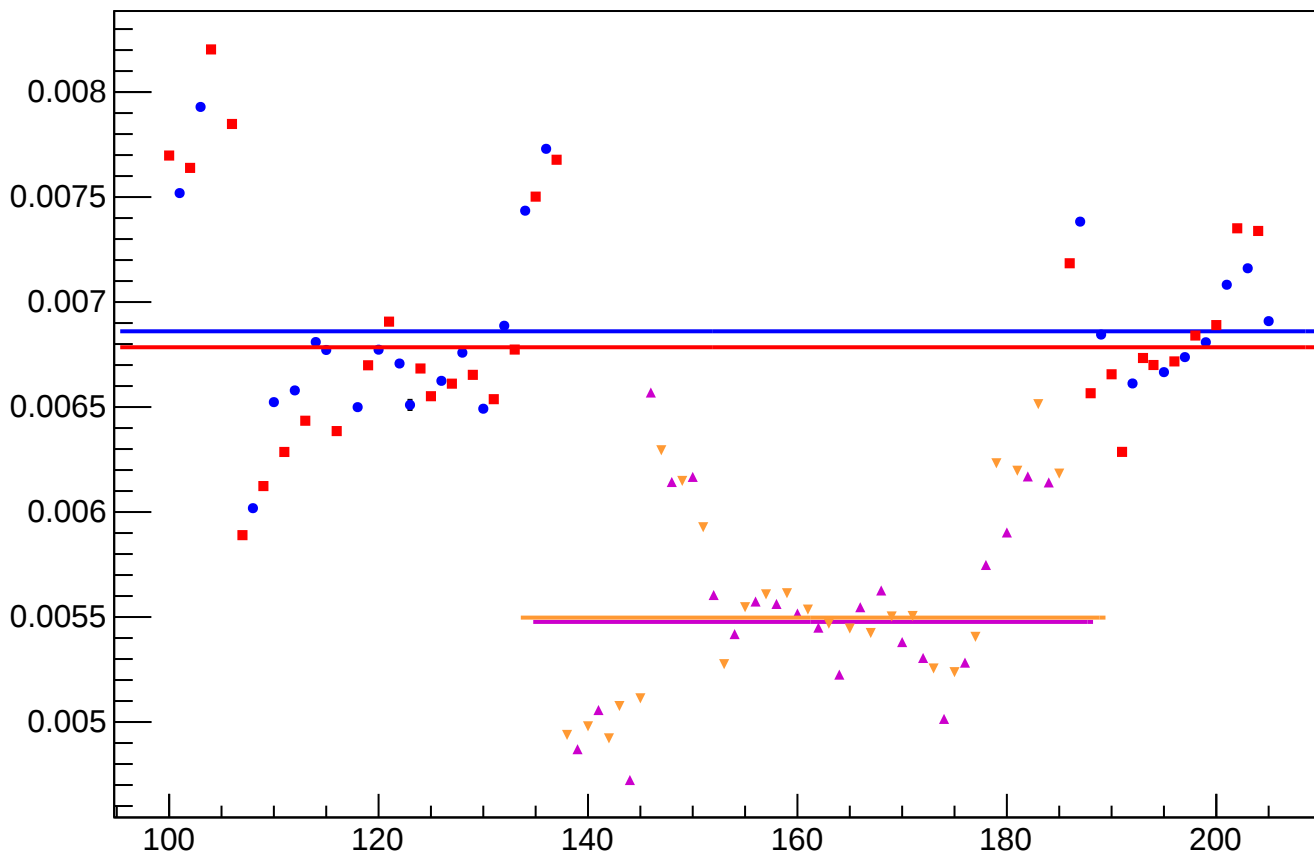
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.116+/-0.000

χ^2/NDF : 145670054844.4

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 89089.4/25

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 128337.6/29

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

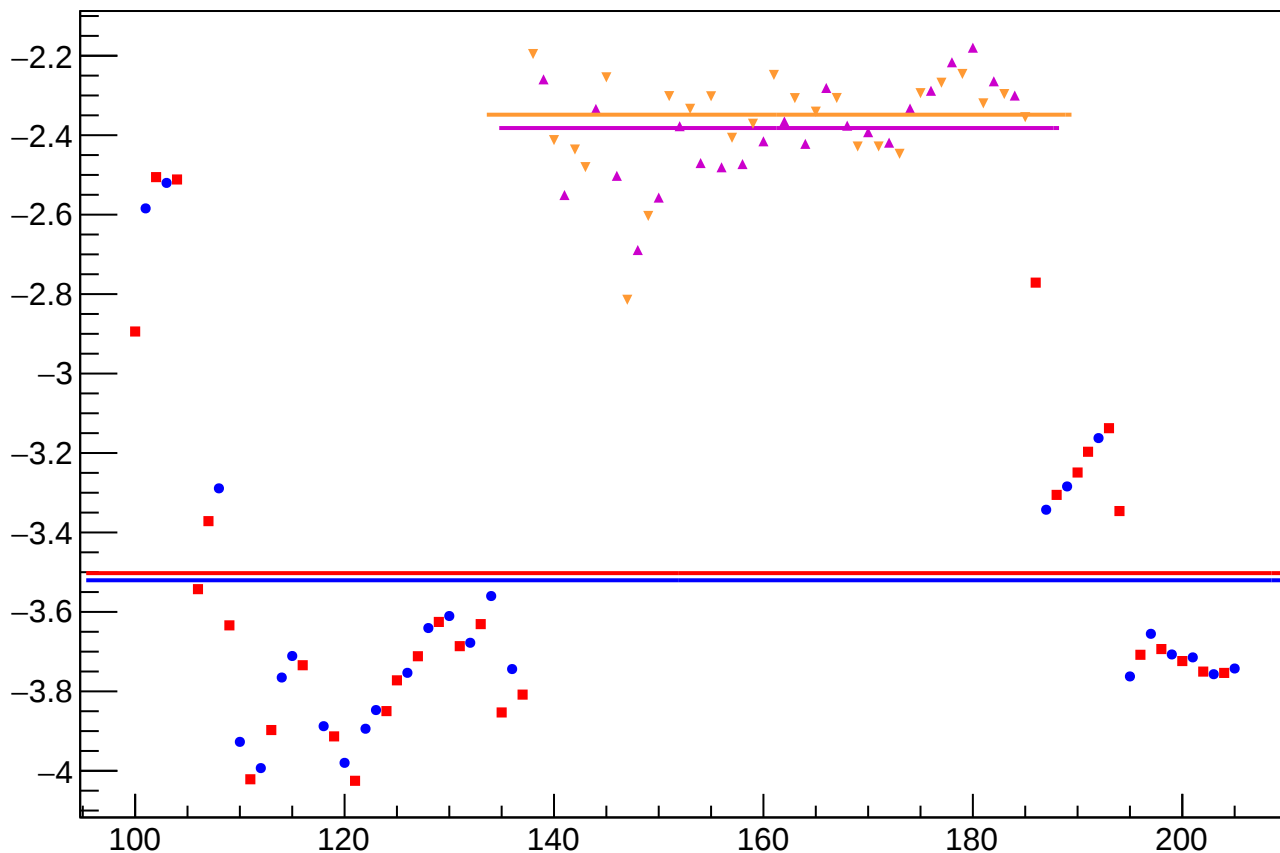
Right: 0.007+/-0.000 χ^2/NDF : 219078.8/55

In: 0.006+/-0.000 χ^2/NDF :987226.8/48

Out: 0.006+/-0.000 χ^2/NDF :983244.0/54

All: 0.006+/-0.000 χ^2/NDF : 1970474.4/103

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.520+/-0.000 χ^2 /NDF: 29767038400.5/25

Left Out: -2.348+/-0.000 χ^2 /NDF: 2158686333.4/24

Right Out: -3.502+/-0.000 χ^2 /NDF: 30621287929.4/29

Left In: -2.382+/-0.000 χ^2 /NDF: 2318395228.4/22

Left: -2.365+/-0.000 χ^2 /NDF: 4600738143.2/47

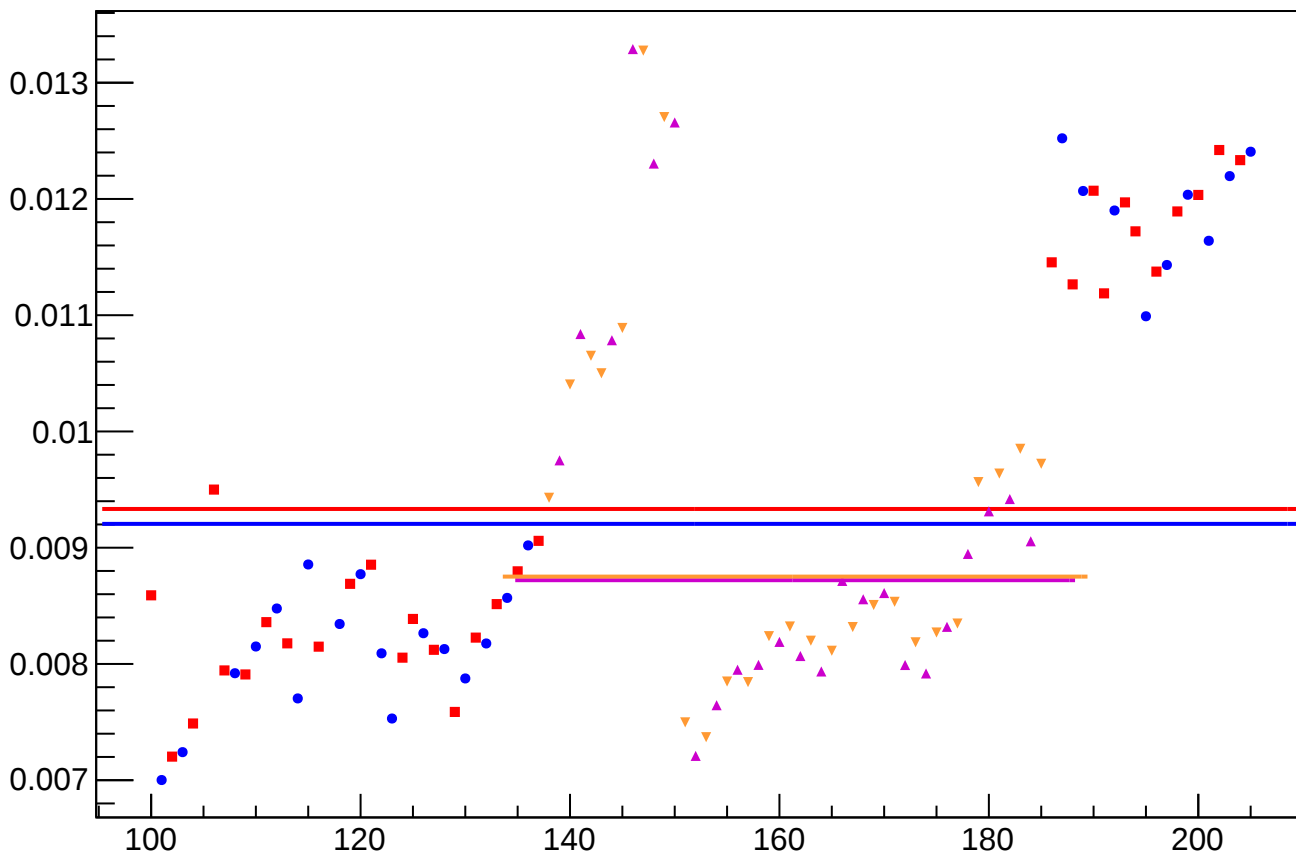
Right: -3.511+/-0.000 χ^2 /NDF: 60412275019.5/55

In: -2.842+/-0.000 χ^2 /NDF: 143730647349.9/48

Out: -2.815+/-0.000 χ^2 /NDF: 153808133039.9/54

All: -2.828+/-0.000 χ^2 /NDF: 297672608058.1

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 960893.0/25

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 970196.9/29

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

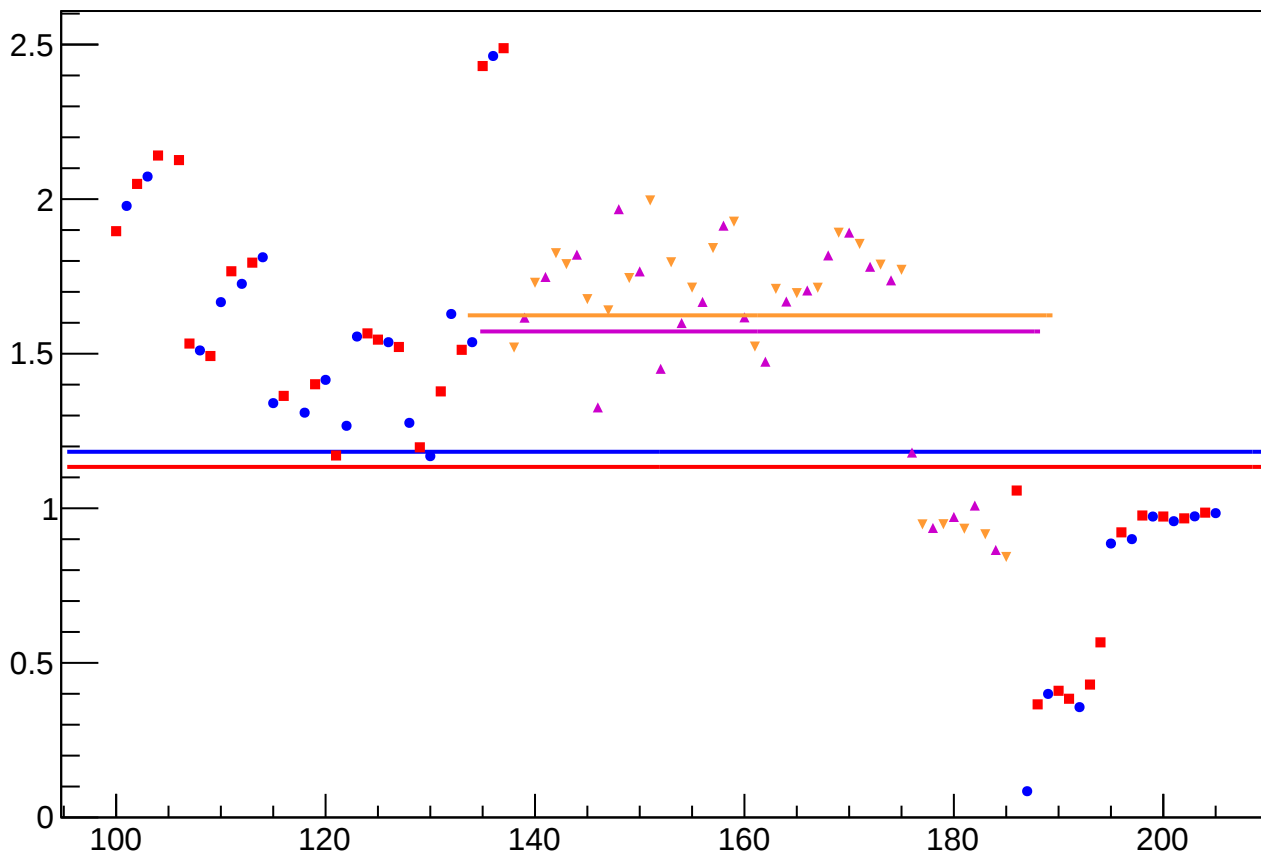
Right: 0.009+/-0.000 χ^2/NDF : 1933532.6/55

In: 0.009+/-0.000 χ^2/NDF :1749195.5/48

Out: 0.009+/-0.000 χ^2/NDF :1695398.4/54

All: 0.009+/-0.000 χ^2/NDF : 3446413.9/103

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.183 $\pm$ 0.000 χ^2/NDF : 27326283828.3/25

Left Out: 1.624 $\pm$ 0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.134 $\pm$ 0.000 χ^2/NDF : 32584234065.5/29

Left In: 1.572 $\pm$ 0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599 $\pm$ 0.000 χ^2/NDF : 31067753064.6/47

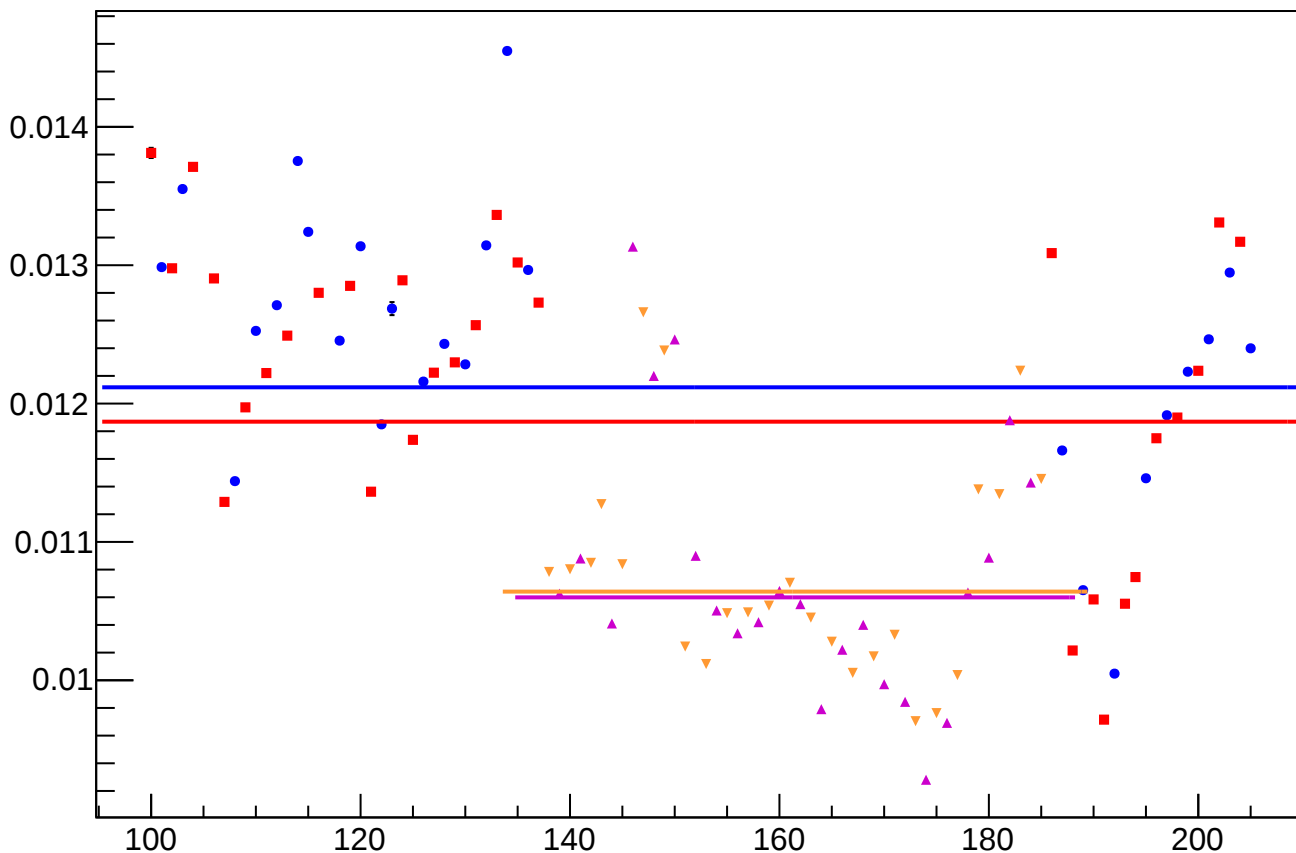
Right: 1.157 $\pm$ 0.000 χ^2/NDF : 60020257673.5/55

In: 1.428 $\pm$ 0.000 χ^2/NDF : 49819460544.7/48

Out: 1.435 $\pm$ 0.000 χ^2/NDF : 63644844743.9/54

All: 1.432 $\pm$ 0.000 χ^2/NDF : 113470577607.6

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 165238.7/25

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 225092.1/29

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

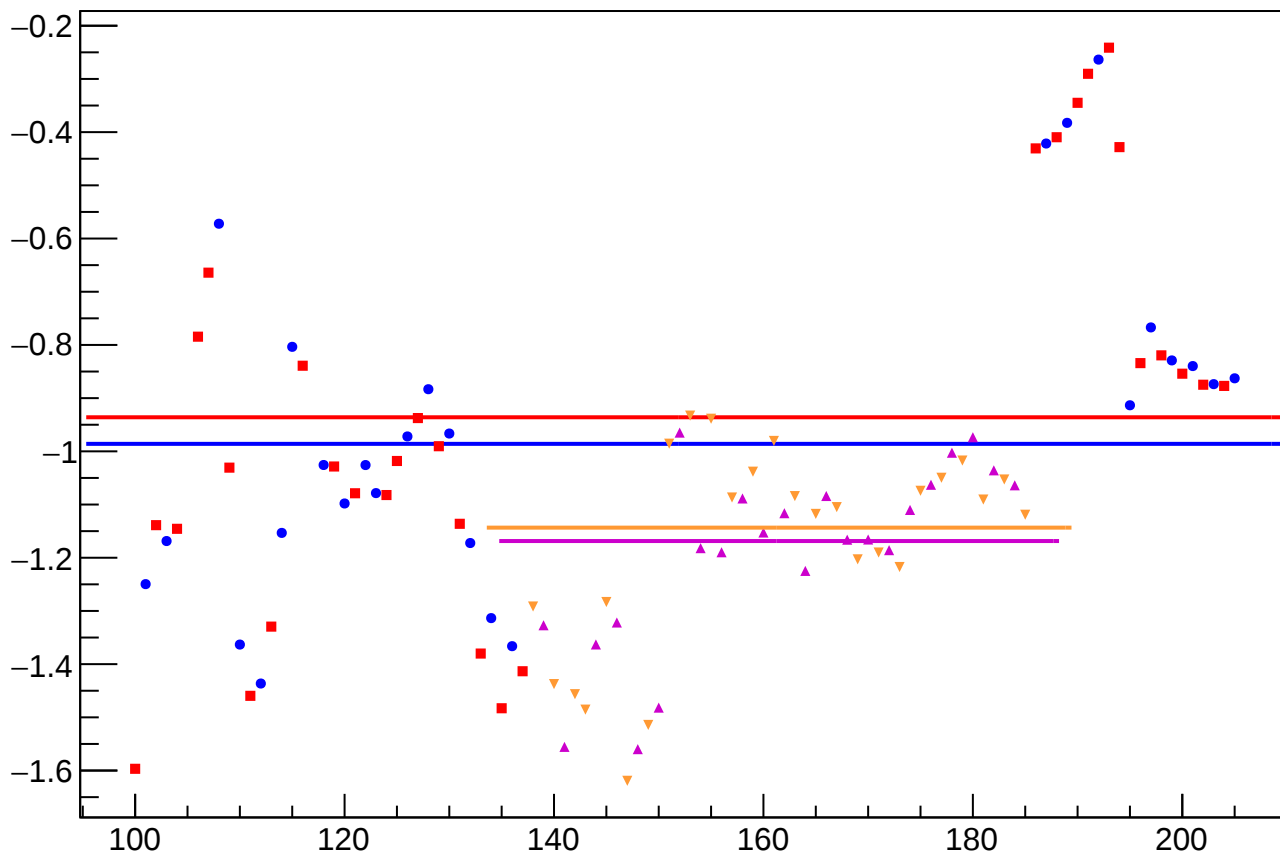
Right: 0.012+/-0.000 χ^2/NDF : 395990.1/55

In: 0.011+/-0.000 χ^2/NDF :621310.7/48

Out: 0.011+/-0.000 χ^2/NDF :566008.9/54

All: 0.011+/-0.000 χ^2/NDF : 1187841.0/103

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.986+/-0.000

χ^2/NDF : 10875840043.7/25

Left: -1.156+/-0.000

χ^2/NDF : 14424995220.9/47

Left Out: -1.143+/-0.000

χ^2/NDF : 7976364534.0/24

Right: -0.960+/-0.000

χ^2/NDF : 26804555133.4/55

Right Out: -0.936+/-0.000

χ^2/NDF : 15769464108.1/29

In: -1.110+/-0.000

χ^2/NDF : 20034303670.5/48

Out: -1.077+/-0.000

χ^2/NDF : 27614346736.6/54

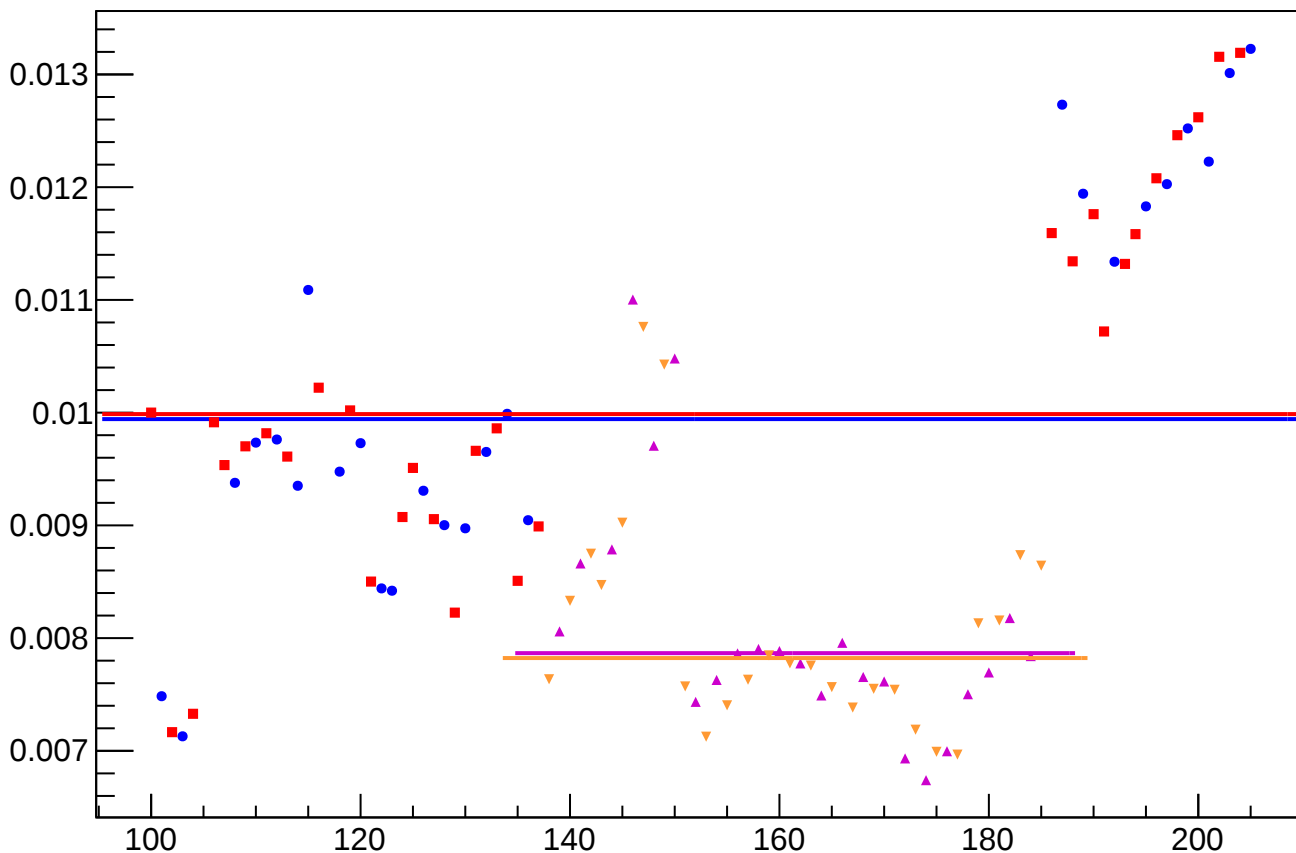
Left In: -1.169+/-0.000

χ^2/NDF : 6362643368.6/22

All: -1.093+/-0.000

χ^2/NDF : 47871144179.8/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 823370.2/25

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:336387.6/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 820613.1/29

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:379901.3/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 716803.8/47

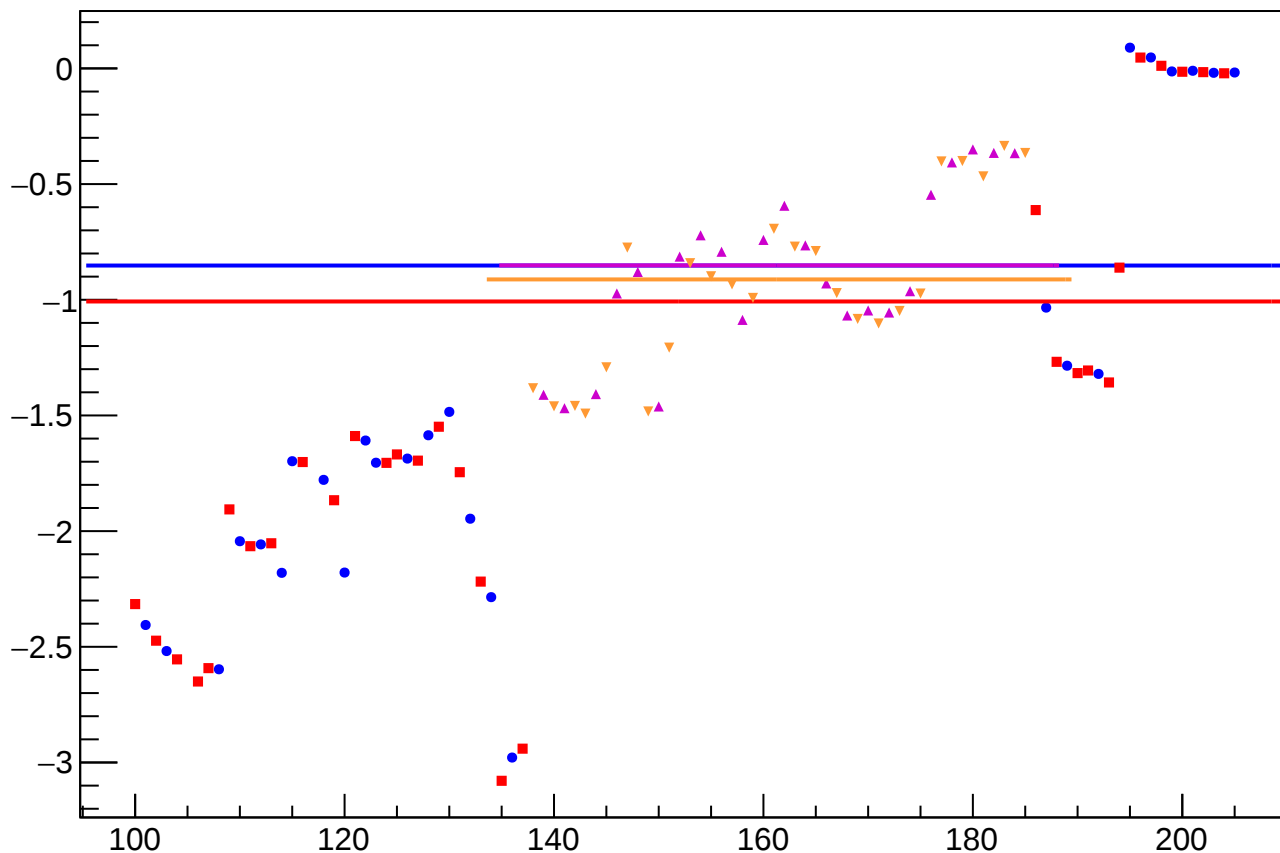
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1644235.4/55

In: 0.009 $\pm$ 0.000 χ^2 /NDF:1925439.3/48

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1999201.0/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 3924700.3/103

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.852 ± 0.000

χ^2/NDF : 332254716848.8/25

Left: -0.882 ± 0.000

χ^2/NDF : 96285672564.6/47

Left Out: -0.912 ± 0.000

χ^2/NDF : 49039425818.1/24

Right: -0.936 ± 0.000

χ^2/NDF : 665205831706.9/55

Right Out: -1.007 ± 0.000

χ^2/NDF : 328950224897.9/29

In: -0.852 ± 0.000

χ^2/NDF : 378693228558.4/48

Out: -0.955 ± 0.000

χ^2/NDF : 379799589701.6/54

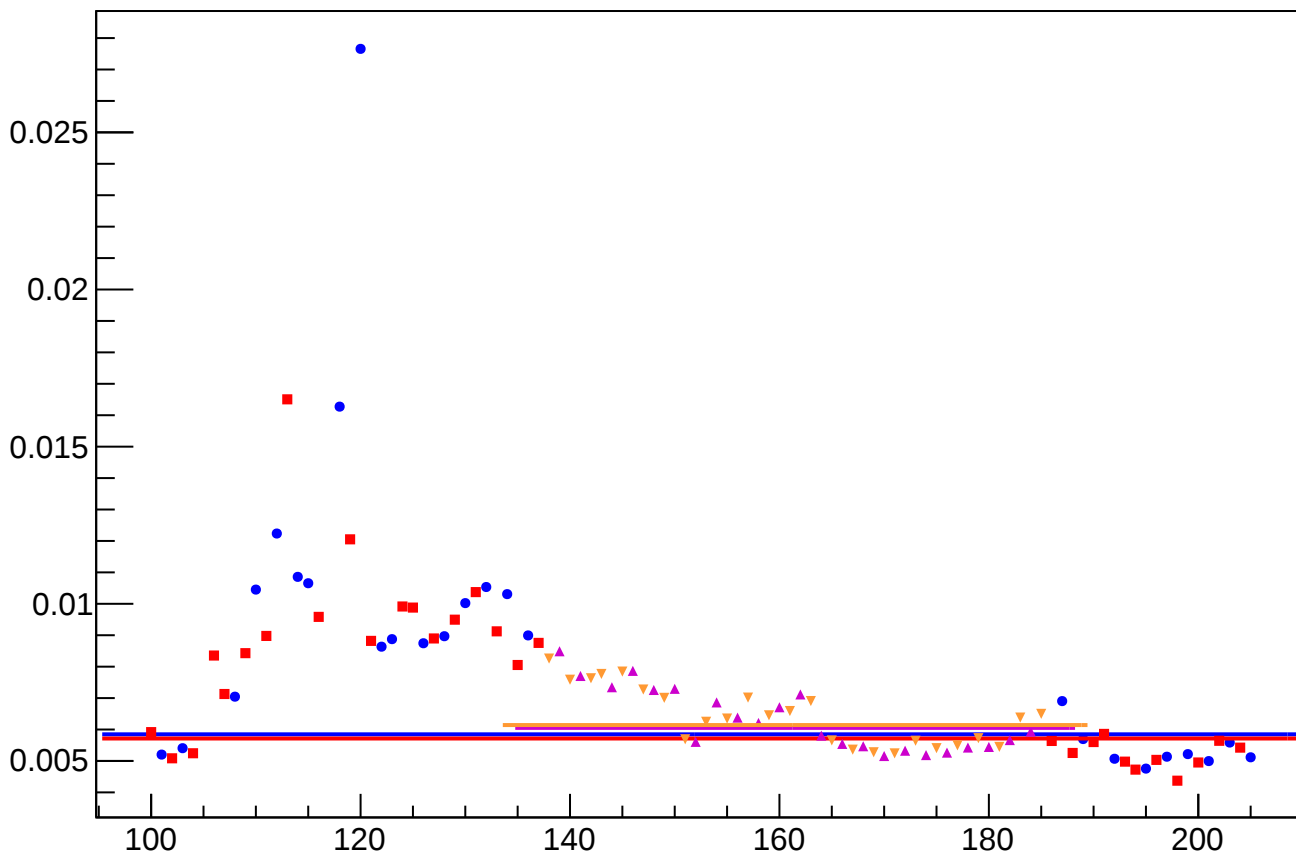
Left In: -0.851 ± 0.000

χ^2/NDF : 46438446008.2/22

All: -0.905 ± 0.000

χ^2/NDF : 762589307360.7

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1976606.1/25

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1882288.4/29

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

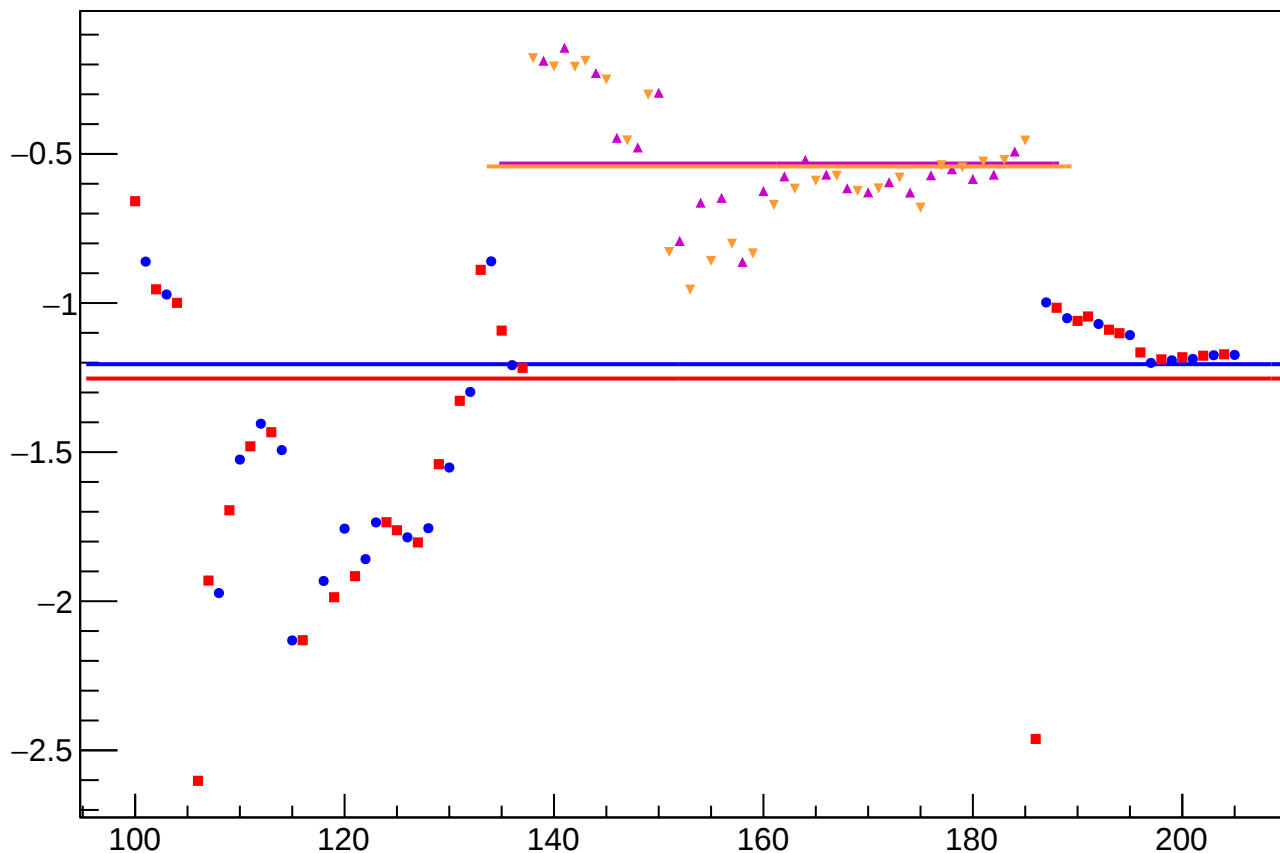
Right: 0.006+/-0.000 χ^2/NDF : 3864732.0/55

In: 0.006+/-0.000 χ^2/NDF : 2689407.6/48

Out: 0.006+/-0.000 χ^2/NDF : 2592931.6/54

All: 0.006+/-0.000 χ^2/NDF : 5282553.9/103

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 26333795260.2/25$

Left Out: -0.542 ± 0.000 $\chi^2/\text{NDF}: 47268284910.3/24$

Right Out: -1.253 ± 0.000 $\chi^2/\text{NDF}: 78794003419.4/29$

Left In: -0.532 ± 0.000 $\chi^2/\text{NDF}: 30715235426.8/22$

Left: -0.537 ± 0.000 $\chi^2/\text{NDF}: 78028833870.1/47$

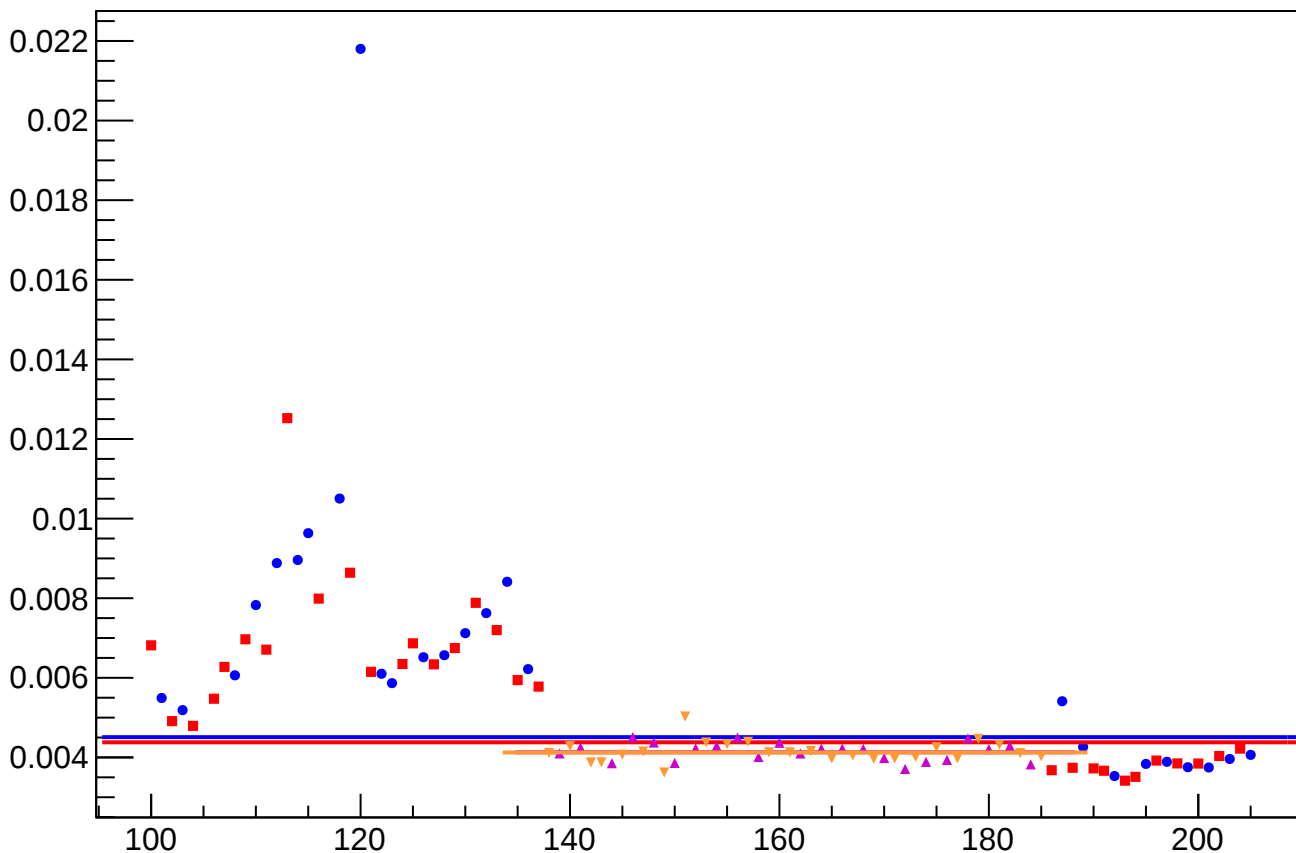
Right: -1.231 ± 0.000 $\chi^2/\text{NDF}: 105772948431.3/55$

In: -0.771 ± 0.000 $\chi^2/\text{NDF}: 207572831001.8/48$

Out: -0.811 ± 0.000 $\chi^2/\text{NDF}: 316178639691.1/54$

All: -0.792 ± 0.000 $\chi^2/\text{NDF}: 524986290346.0$

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1953374.6/25

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1828684.9/29

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

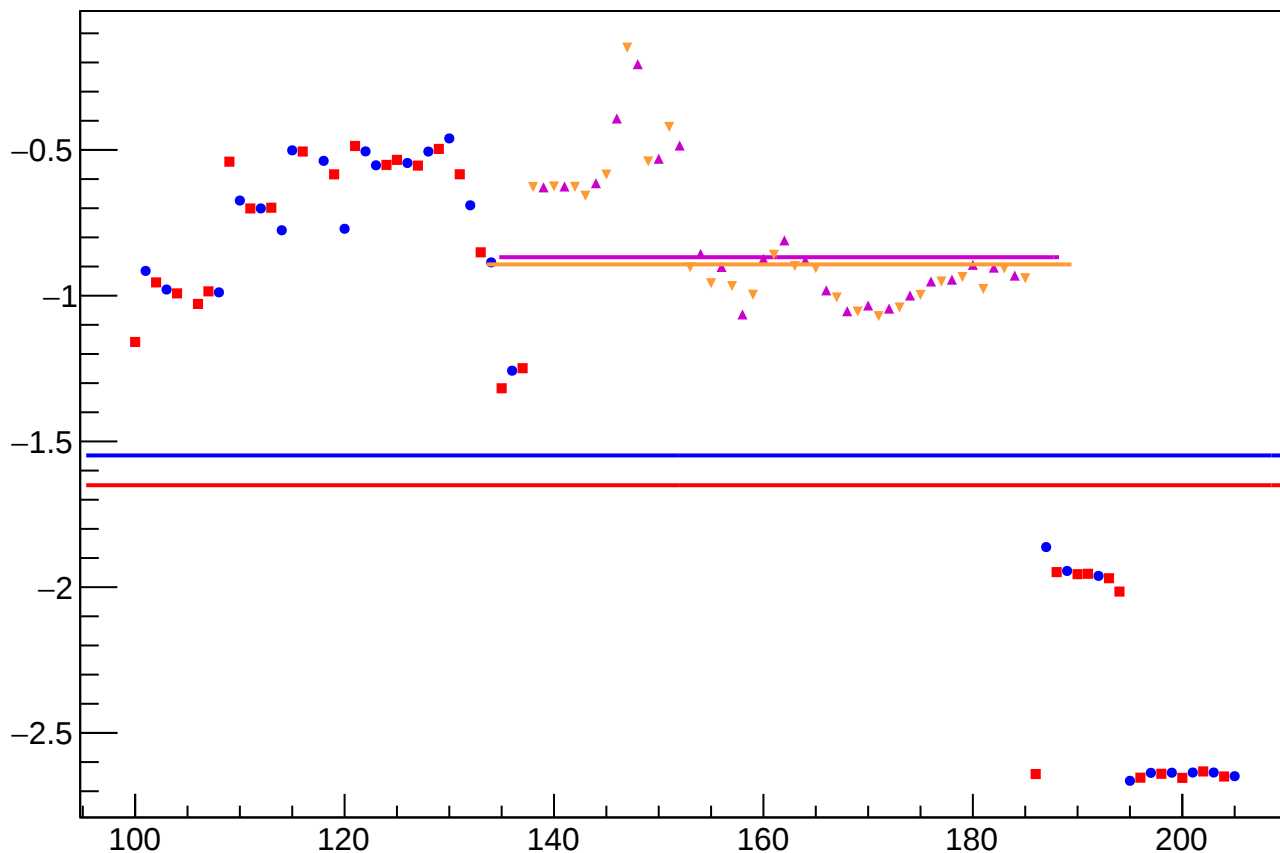
Right: 0.004+/-0.000 χ^2/NDF : 3791370.4/55

In: 0.004+/-0.000 χ^2/NDF :2142197.0/48

Out: 0.004+/-0.000 χ^2/NDF :1990722.9/54

All: 0.004+/-0.000 χ^2/NDF : 4135764.8/103

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.548 $\pm$ 0.000

χ^2/NDF : 230820090233.3/25

Left: -0.880 $\pm$ 0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893 $\pm$ 0.000

χ^2/NDF : 40787012603.8/24

Right: -1.608 $\pm$ 0.000

χ^2/NDF : 524378138168.6/55

Right Out: -1.650 $\pm$ 0.000

χ^2/NDF : 290914927216.3/29

In: -1.057 $\pm$ 0.000

χ^2/NDF : 418007694769.7/48

Out: -1.161 $\pm$ 0.000

χ^2/NDF : 560246361161.8/54

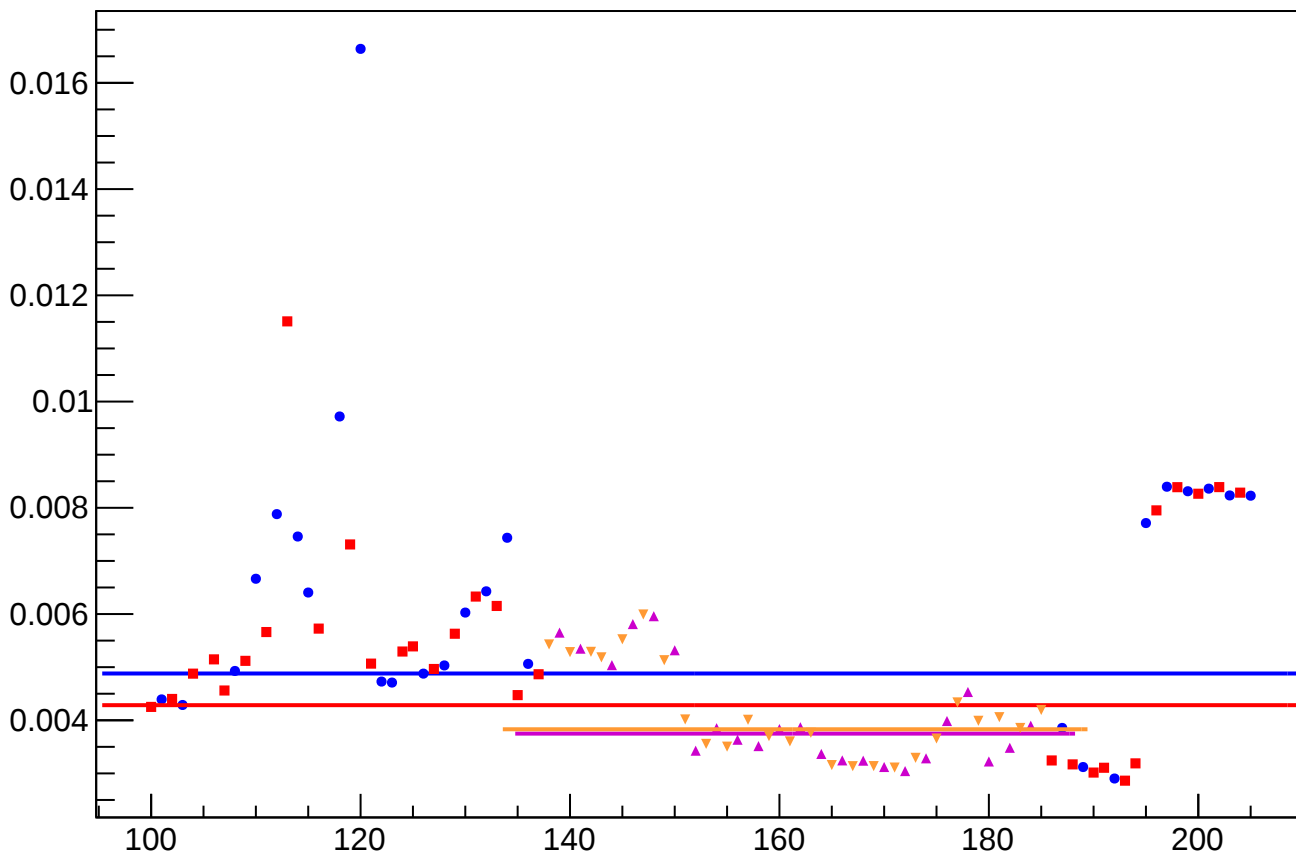
Left In: -0.868 $\pm$ 0.000

χ^2/NDF : 43853190177.2/22

All: -1.112 $\pm$ 0.000

χ^2/NDF : 987076374552.8

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3406760.7/25

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3392898.5/29

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

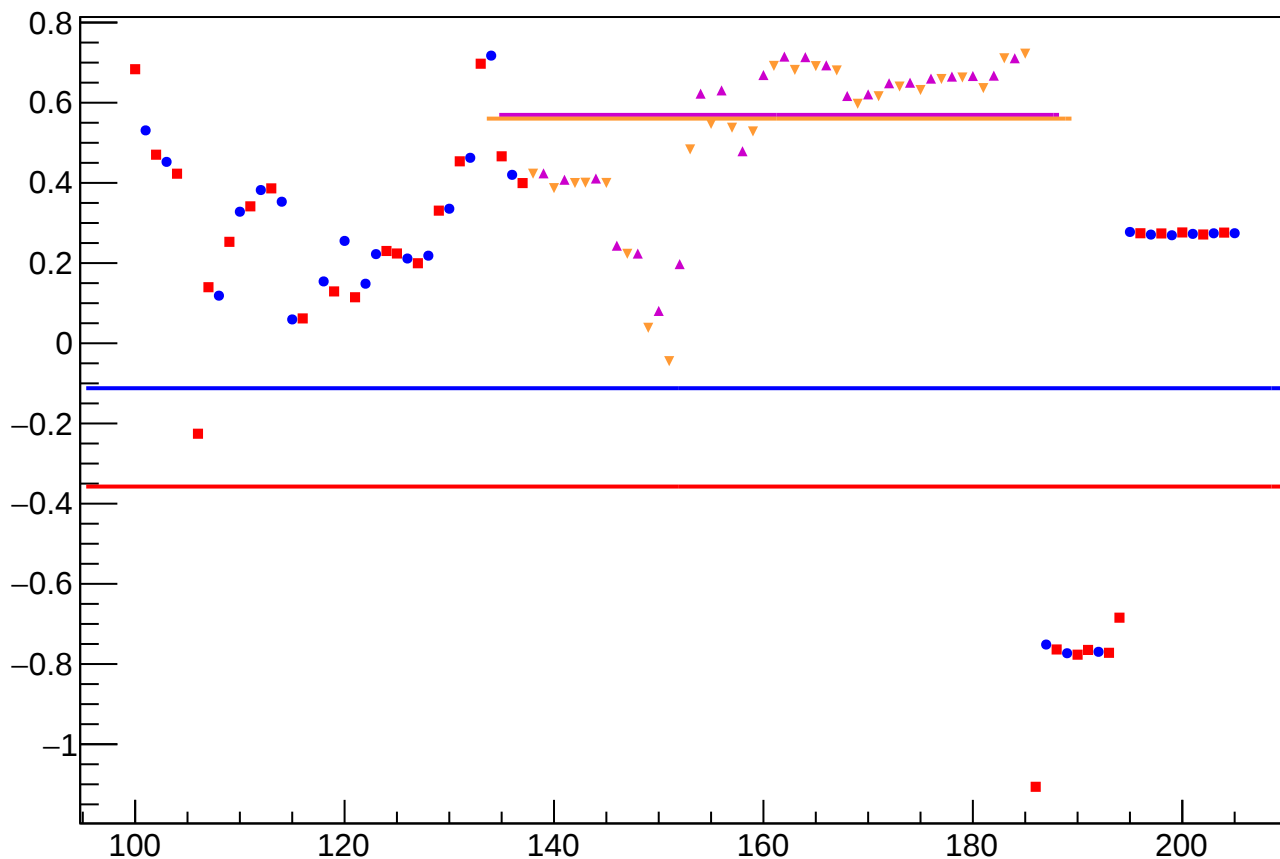
Right: 0.005+/-0.000 χ^2/NDF : 6979512.8/55

In: 0.004+/-0.000 χ^2/NDF :5489216.3/48

Out: 0.004+/-0.000 χ^2/NDF :4736599.5/54

All: 0.004+/-0.000 χ^2/NDF : 10234302.5/103

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.112 ± 0.000 $\chi^2/\text{NDF}: 277627053006.4/25$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.357 ± 0.000 $\chi^2/\text{NDF}: 438141224862.4/29$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

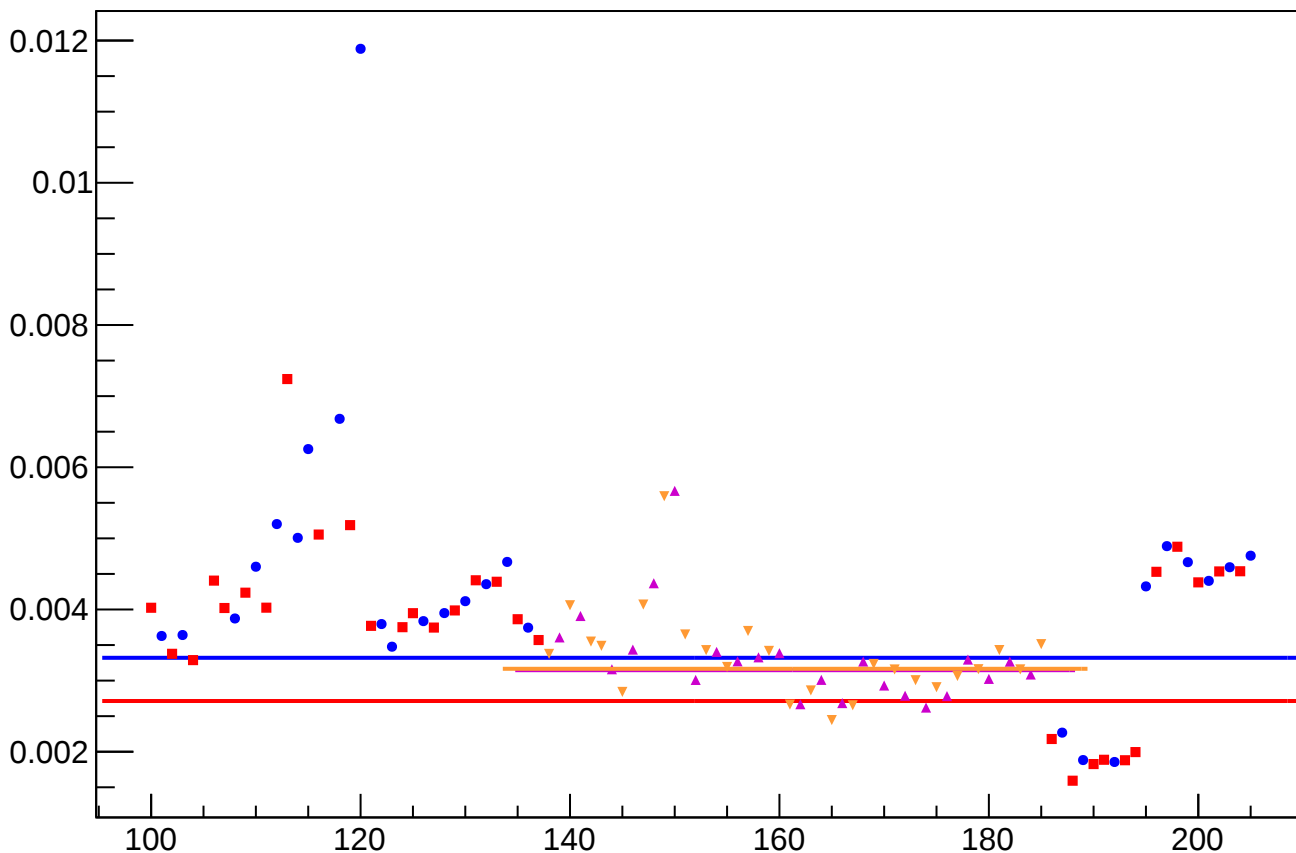
Right: -0.261 ± 0.000 $\chi^2/\text{NDF}: 750433410695.9/55$

In: 0.312 ± 0.000 $\chi^2/\text{NDF}: 593486143364.4/48$

Out: 0.123 ± 0.000 $\chi^2/\text{NDF}: 1132428209973.0/54$

All: 0.208 ± 0.000 $\chi^2/\text{NDF}: 1775048451419.$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3108297.0/25

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4147906.7/29

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

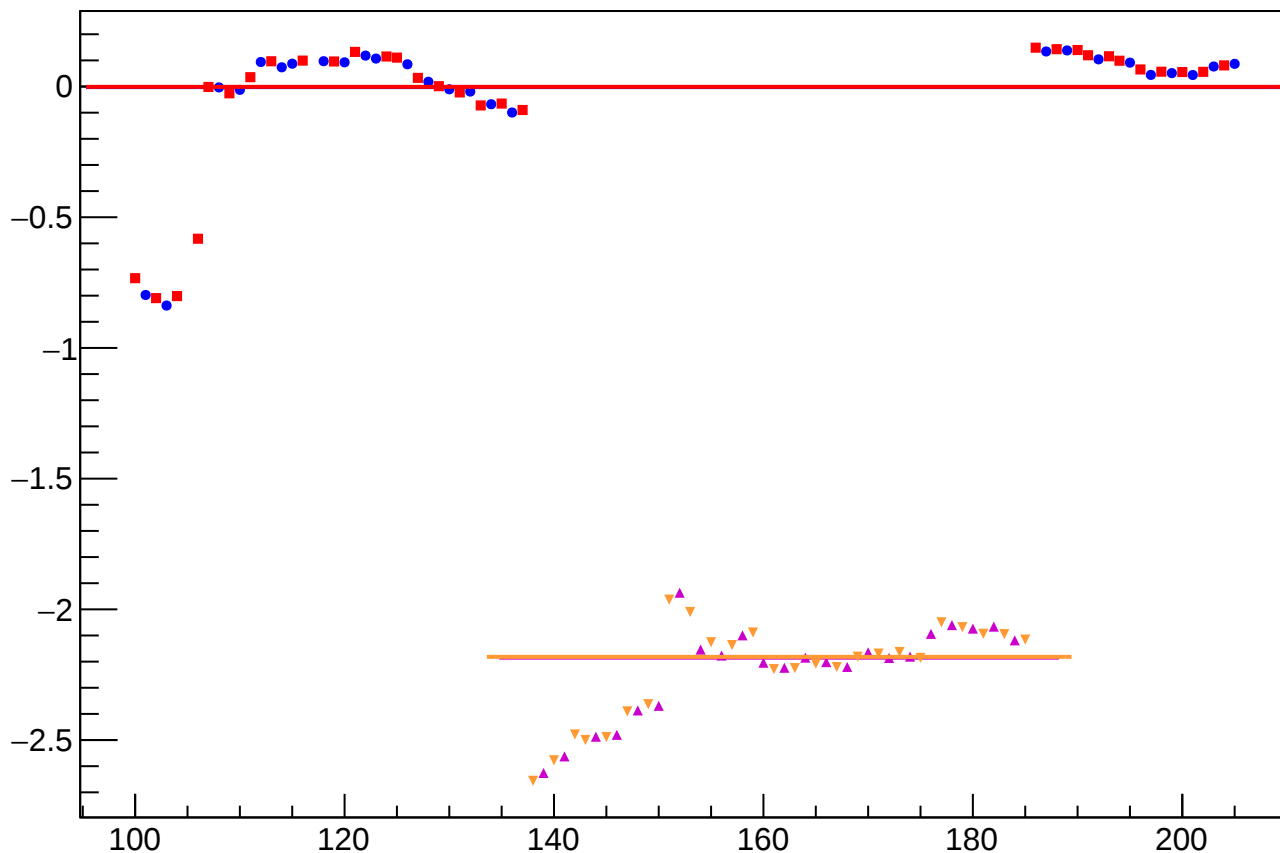
Right: 0.003+/-0.000 χ^2/NDF : 7681555.2/55

In: 0.003+/-0.000 χ^2/NDF : 3860488.9/48

Out: 0.003+/-0.000 χ^2/NDF : 5209036.3/54

All: 0.003+/-0.000 χ^2/NDF : 9259235.8/103

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 5828806840.4/25

Left: -2.183+/-0.000

χ^2/NDF : 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2/NDF : 4008829567.0/24

Right: -0.002+/-0.000

χ^2/NDF : 12730347583.1/55

Right Out: -0.001+/-0.000

χ^2/NDF : 6901496627.0/29

In: -1.269+/-0.000

χ^2/NDF : 323962174722.1/48

Out: -1.237+/-0.000

χ^2/NDF : 356428251289.5/54

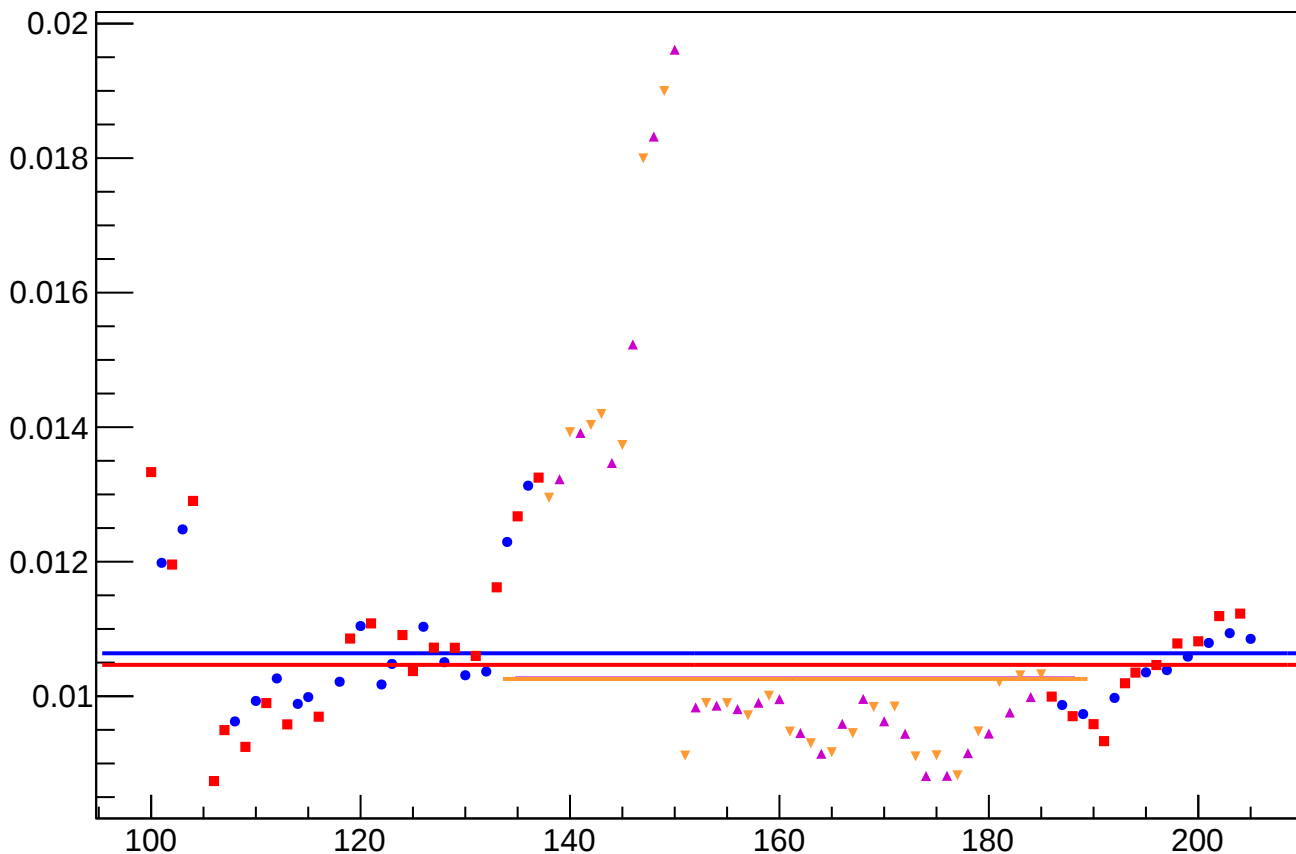
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.252+/-0.000

χ^2/NDF : 680529301012.1

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 151242.7/25

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 221368.2/29

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

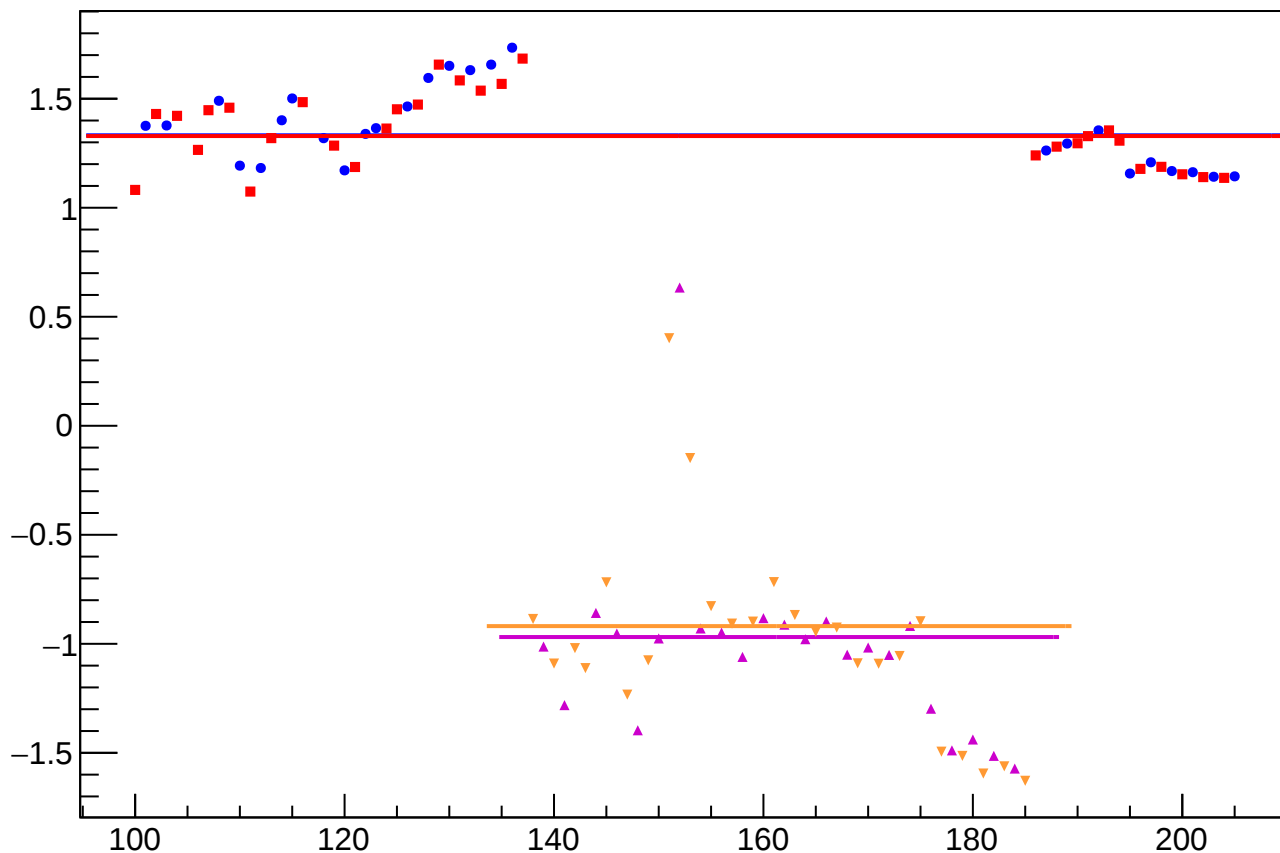
Right: 0.011+/-0.000 χ^2/NDF : 376197.8/55

In: 0.010+/-0.000 χ^2/NDF :1509986.6/48

Out: 0.010+/-0.000 χ^2/NDF :1498388.2/54

All: 0.010+/-0.000 χ^2/NDF : 3009943.2/103

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.332 $\pm$ 0.000

χ^2 /NDF: 7097649698.8/25

Left: -0.943 $\pm$ 0.000

χ^2 /NDF: 110825900215.1/47

Left Out: -0.919 $\pm$ 0.000

χ^2 /NDF: 55622252895.8/24

Right: 1.330 $\pm$ 0.000

χ^2 /NDF: 12507853228.1/55

Right Out: 1.329 $\pm$ 0.000

χ^2 /NDF: 5408863189.6/29

In: 0.148 $\pm$ 0.000

χ^2 /NDF: 677609732340.8/48

Out: 0.200 $\pm$ 0.000

χ^2 /NDF: 695302468517.1/54

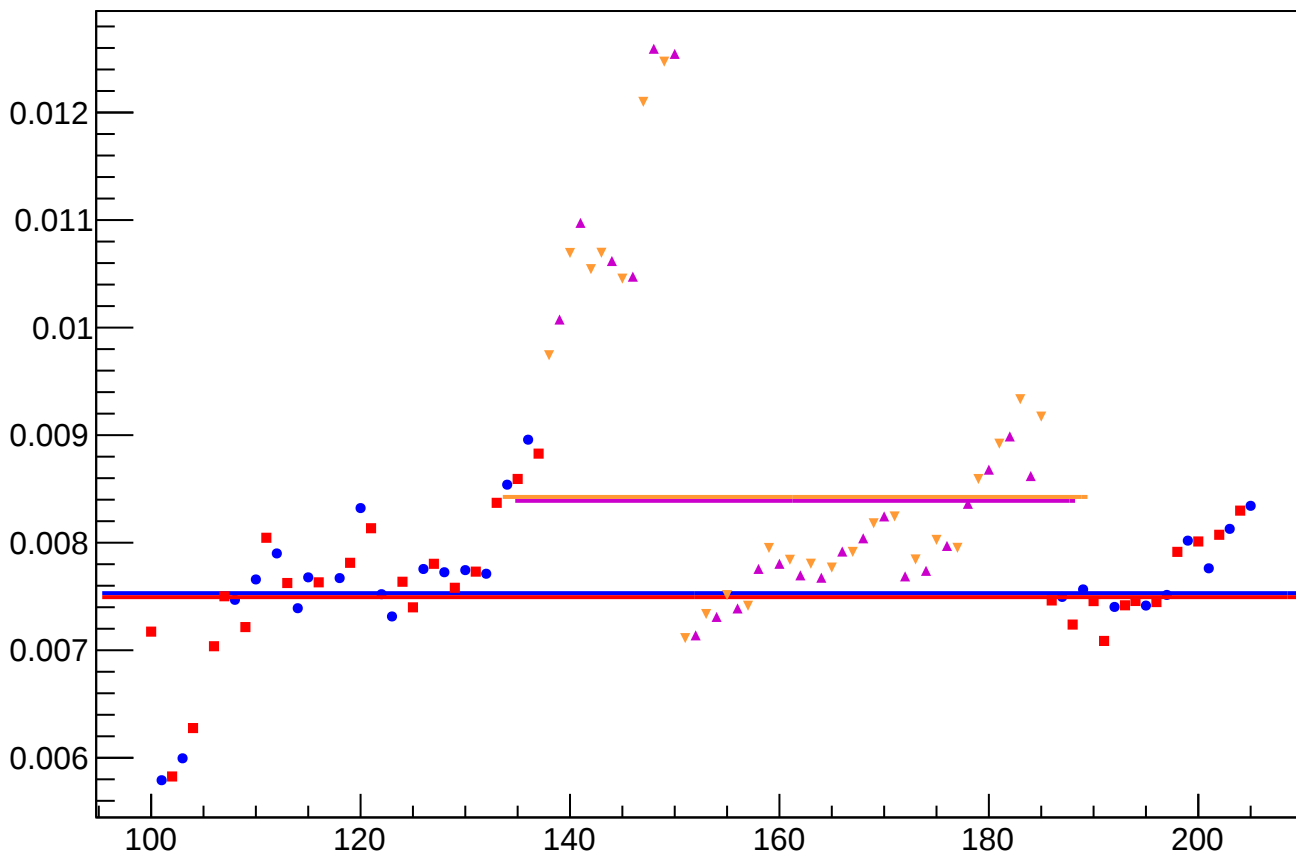
Left In: -0.969 $\pm$ 0.000

χ^2 /NDF: 54895002535.8/22

All: 0.175 $\pm$ 0.000

χ^2 /NDF: 1373567745621.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 269129.7/25

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 210752.4/29

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

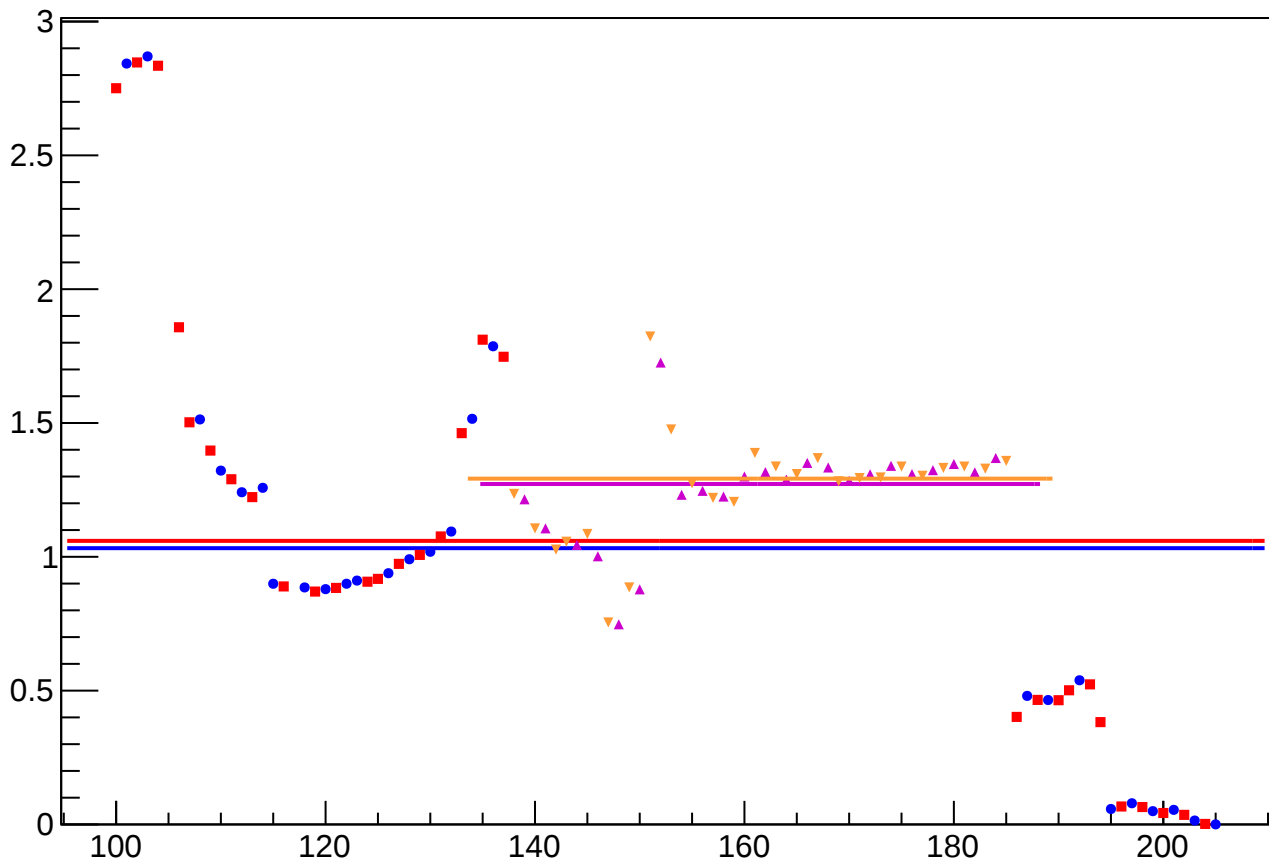
Right: 0.008+/-0.000 χ^2/NDF : 480209.5/55

In: 0.008+/-0.000 χ^2/NDF : 1280439.1/48

Out: 0.008+/-0.000 χ^2/NDF : 1221109.1/54

All: 0.008+/-0.000 χ^2/NDF : 2501607.6/103

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.032 $\pm$ 0.000 χ^2/NDF : 115039851960.3/25

Left Out: 1.292 $\pm$ 0.000 χ^2/NDF : 9305298695.5/24

Right Out: 1.060 $\pm$ 0.000 χ^2/NDF : 110130522395.7/29

Left In: 1.272 $\pm$ 0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2/NDF : 16930321584.4/47

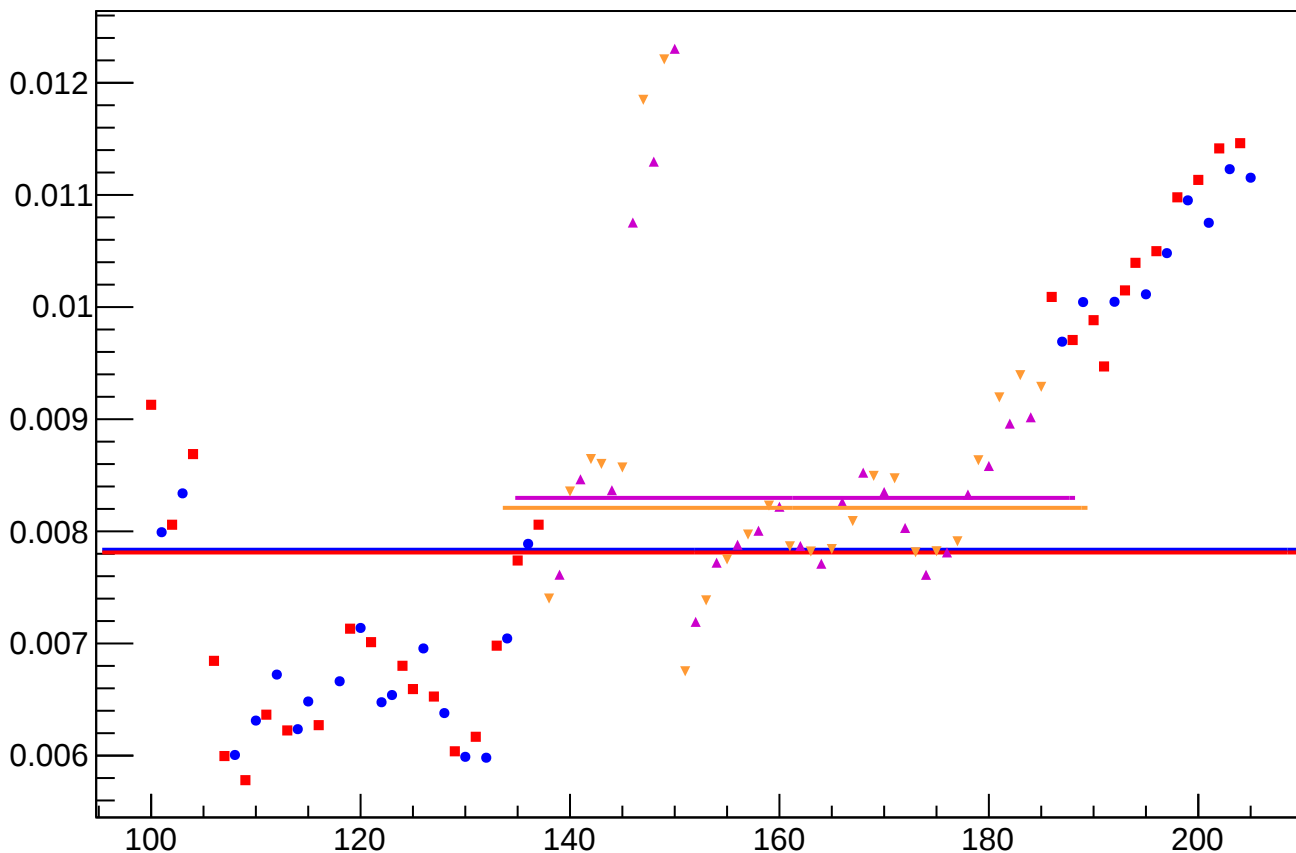
Right: 1.047 $\pm$ 0.000 χ^2/NDF : 225248098124.9/55

In: 1.164 $\pm$ 0.000 χ^2/NDF : 128928039682.4/48

Out: 1.186 $\pm$ 0.000 χ^2/NDF : 125904513588.5/54

All: 1.176 $\pm$ 0.000 χ^2/NDF : 254949042656.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1344068.7/25

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1534377.9/29

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

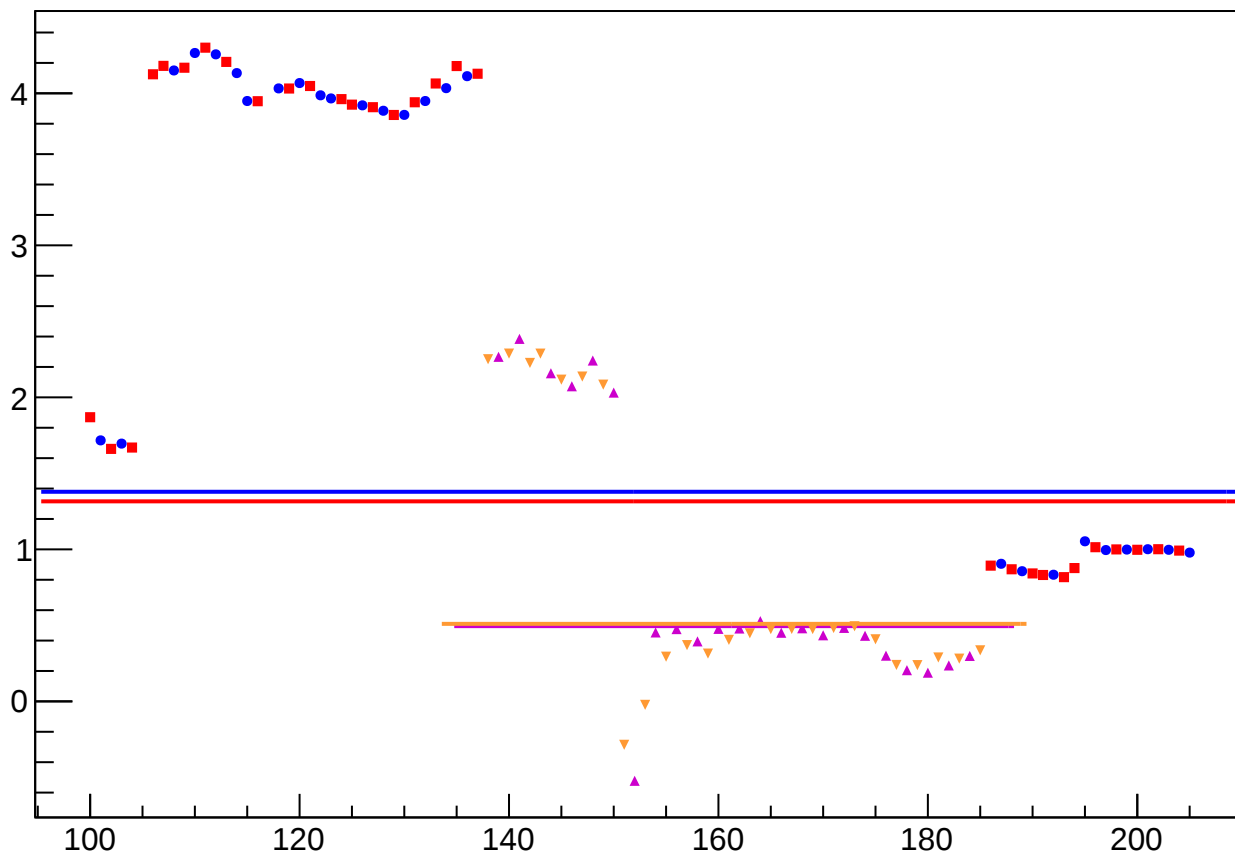
Right: 0.008+/-0.000 χ^2/NDF : 2878572.3/55

In: 0.008+/-0.000 χ^2/NDF : 1853081.1/48

Out: 0.008+/-0.000 χ^2/NDF : 2051163.3/54

All: 0.008+/-0.000 χ^2/NDF : 3905978.4/103

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.379+/-0.000 χ^2/NDF : 1451811307478.2/25

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.316+/-0.000 χ^2/NDF : 1666303792989.2/29

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

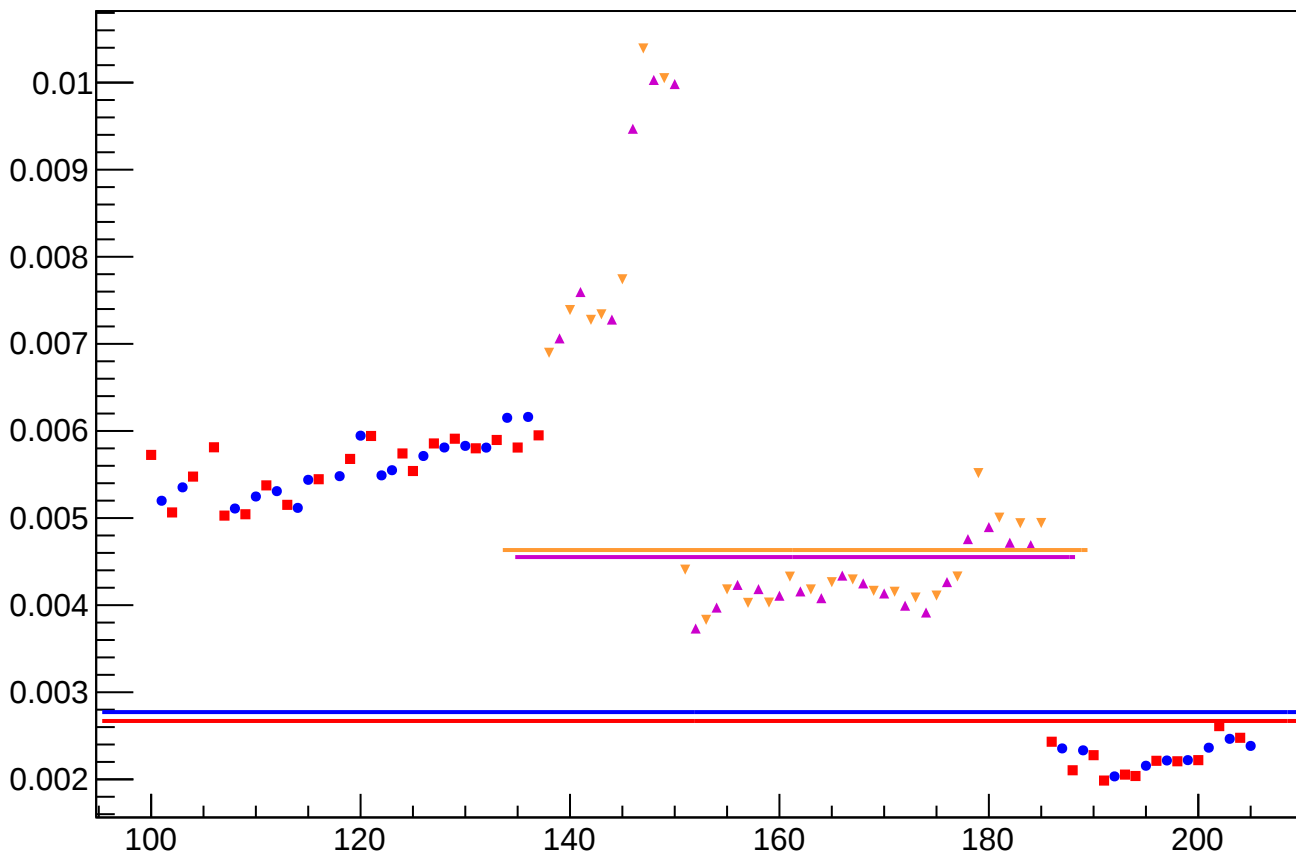
Right: 1.345+/-0.000 χ^2/NDF : 3121040312930.1/55

In: 1.063+/-0.000 χ^2/NDF : 2101248270277.2/48

Out: 1.052+/-0.000 χ^2/NDF : 2280486222967.3/54

All: 1.057+/-0.000 χ^2/NDF : 4381869018964.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4074465.3/25

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4419528.1/29

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

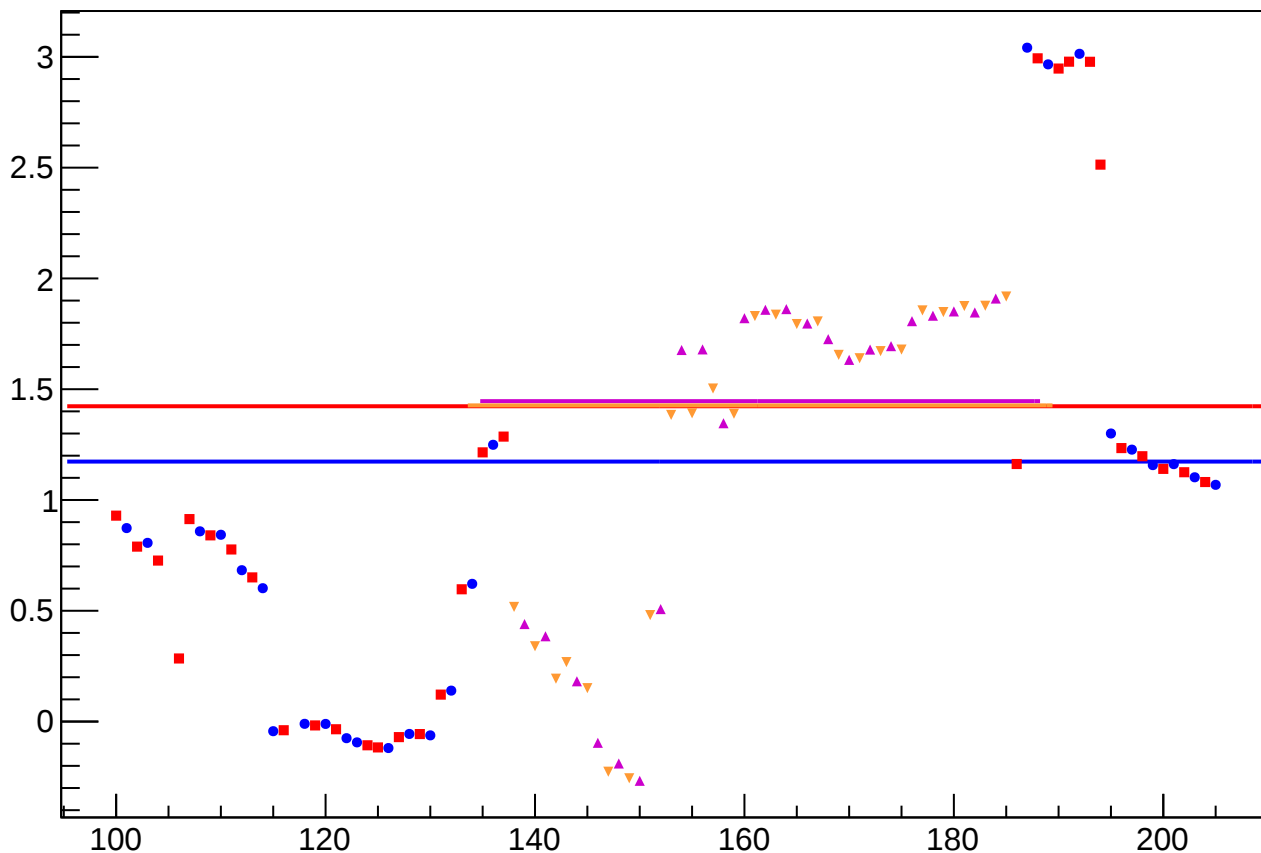
Right: 0.003+/-0.000 χ^2/NDF : 8509317.5/55

In: 0.003+/-0.000 χ^2/NDF :9398783.1/48

Out: 0.003+/-0.000 χ^2/NDF :10559908.1/54

All: 0.003+/-0.000 χ^2/NDF : 19979238.3/103

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.173+/-0.000

χ^2/NDF : 72688820806.7/25

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right Out: 1.423+/-0.000

χ^2/NDF : 99371266086.4/29

Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Right: 1.306+/-0.000

χ^2/NDF : 174563866461.3/55

In: 1.349+/-0.000

χ^2/NDF : 130065084913.5/48

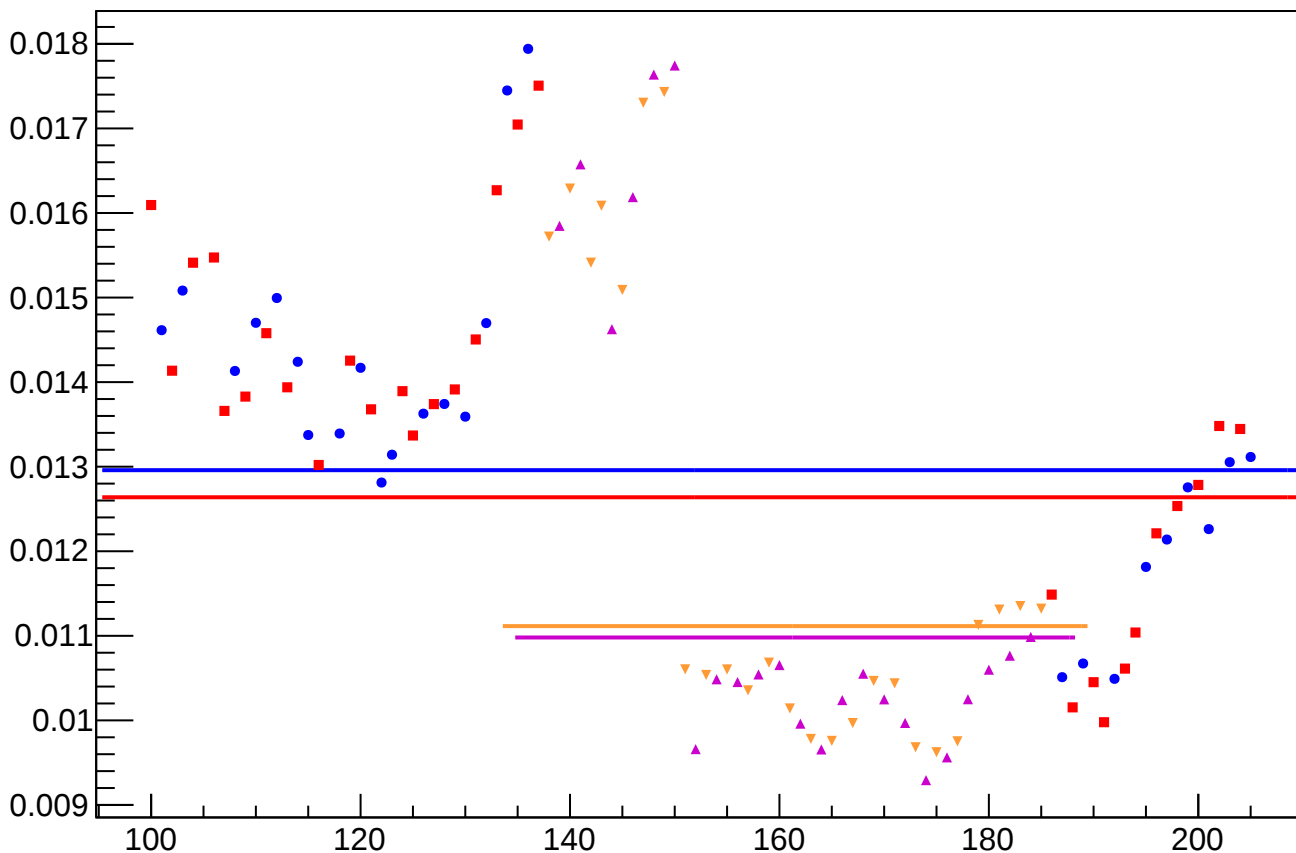
Out: 1.426+/-0.000

χ^2/NDF : 149362875688.0/54

All: 1.389+/-0.000

χ^2/NDF : 280065816917.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 435031.3/25

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 558410.8/29

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

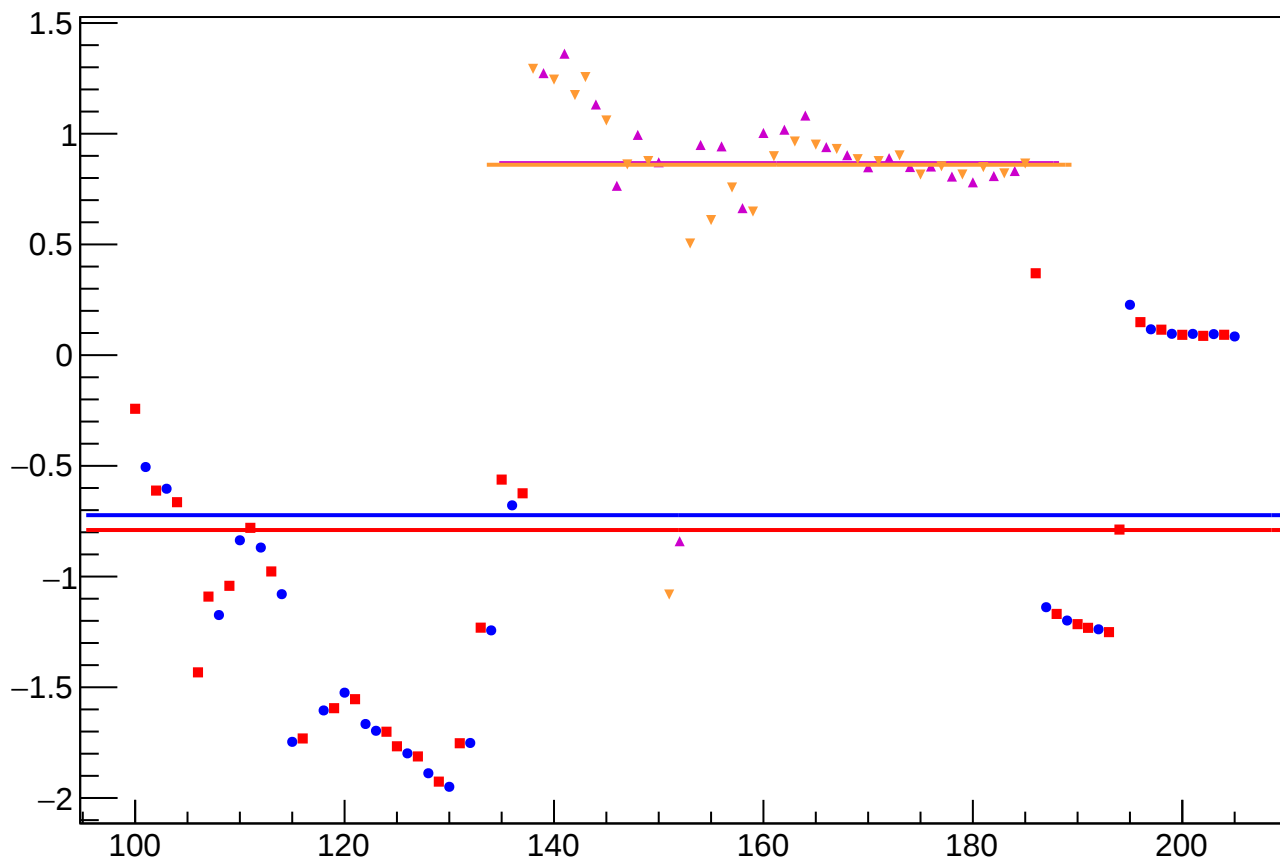
Right: 0.013+/-0.000 χ^2/NDF : 1001676.2/55

In: 0.012+/-0.000 χ^2/NDF :2081185.7/48

Out: 0.012+/-0.000 χ^2/NDF :2034411.5/54

All: 0.012+/-0.000 χ^2/NDF : 4115606.0/103

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.723 ± 0.000 $\chi^2/\text{NDF}: 161885399473.0/25$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -0.790 ± 0.000 $\chi^2/\text{NDF}: 143593246520.3/29$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

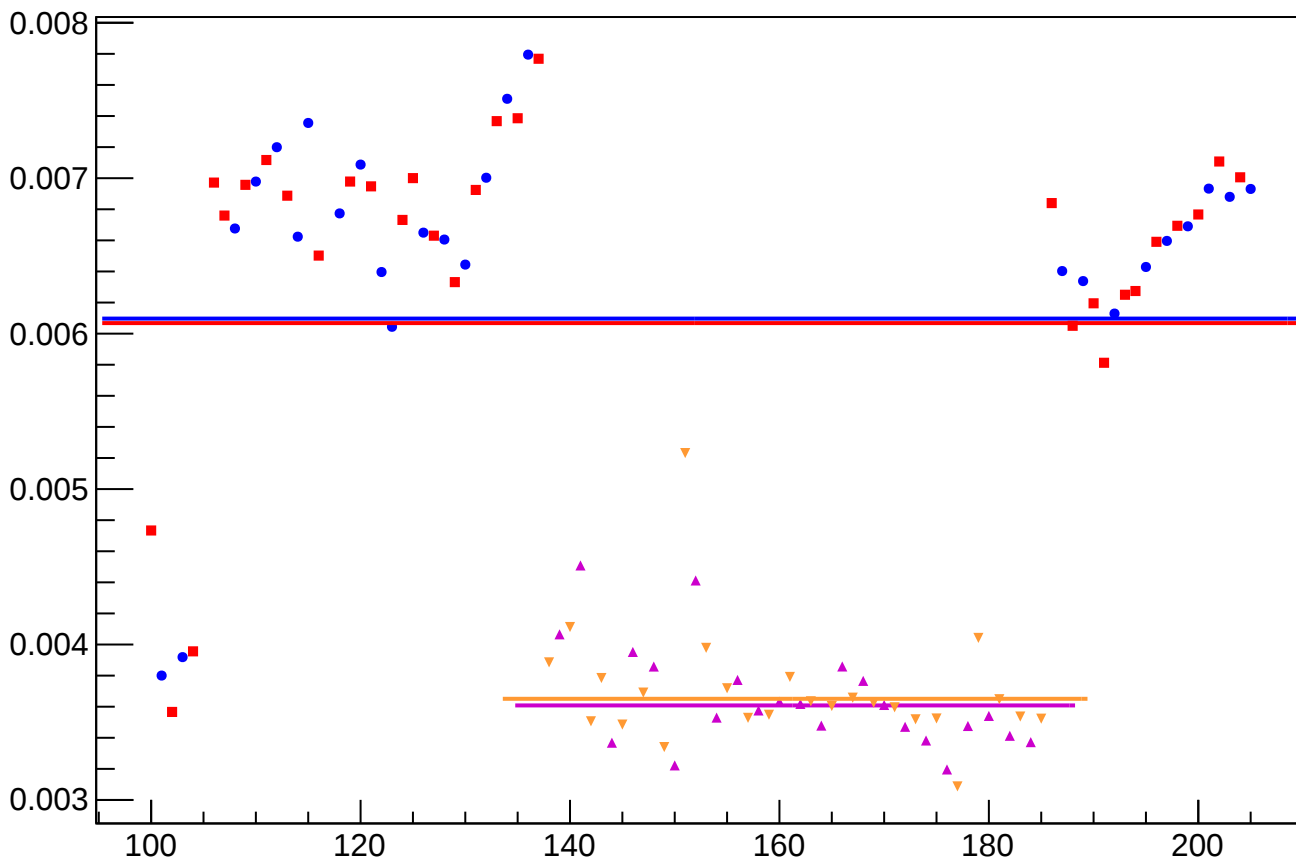
Right: -0.758 ± 0.000 $\chi^2/\text{NDF}: 306233142302.2/55$

In: 0.534 ± 0.000 $\chi^2/\text{NDF}: 948714898920.8/48$

Out: 0.499 ± 0.000 $\chi^2/\text{NDF}: 1016569373252.7/54$

All: 0.516 ± 0.000 $\chi^2/\text{NDF}: 1966242975160.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 981391.2/25

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1069547.0/29

Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

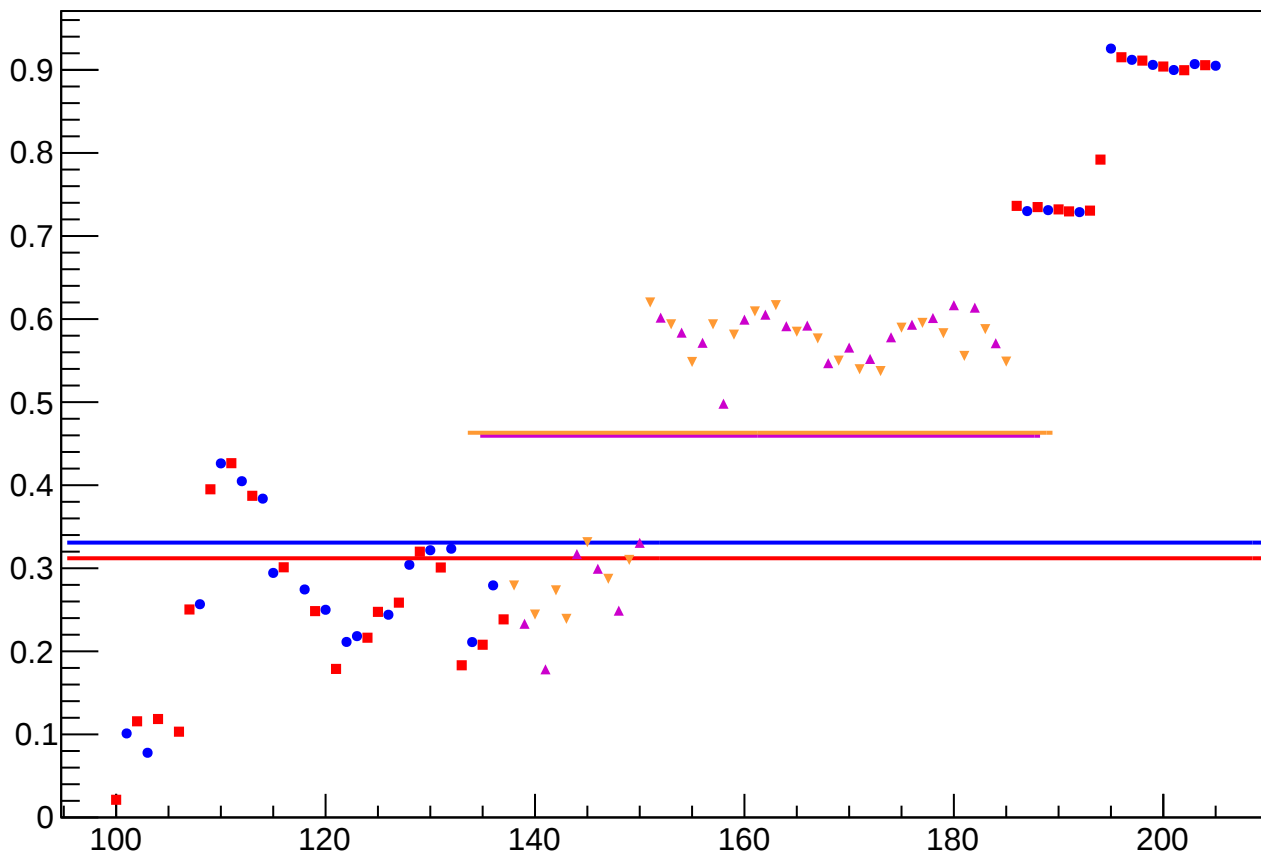
Right: 0.006+/-0.000 χ^2/NDF : 2051219.6/55

In: 0.004+/-0.000 χ^2/NDF : 4344493.8/48

Out: 0.004+/-0.000 χ^2/NDF : 4512289.8/54

All: 0.004+/-0.000 χ^2/NDF : 8860673.8/103

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 134582616285.6/25

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.312+/-0.000 χ^2/NDF : 147144126456.9/29

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

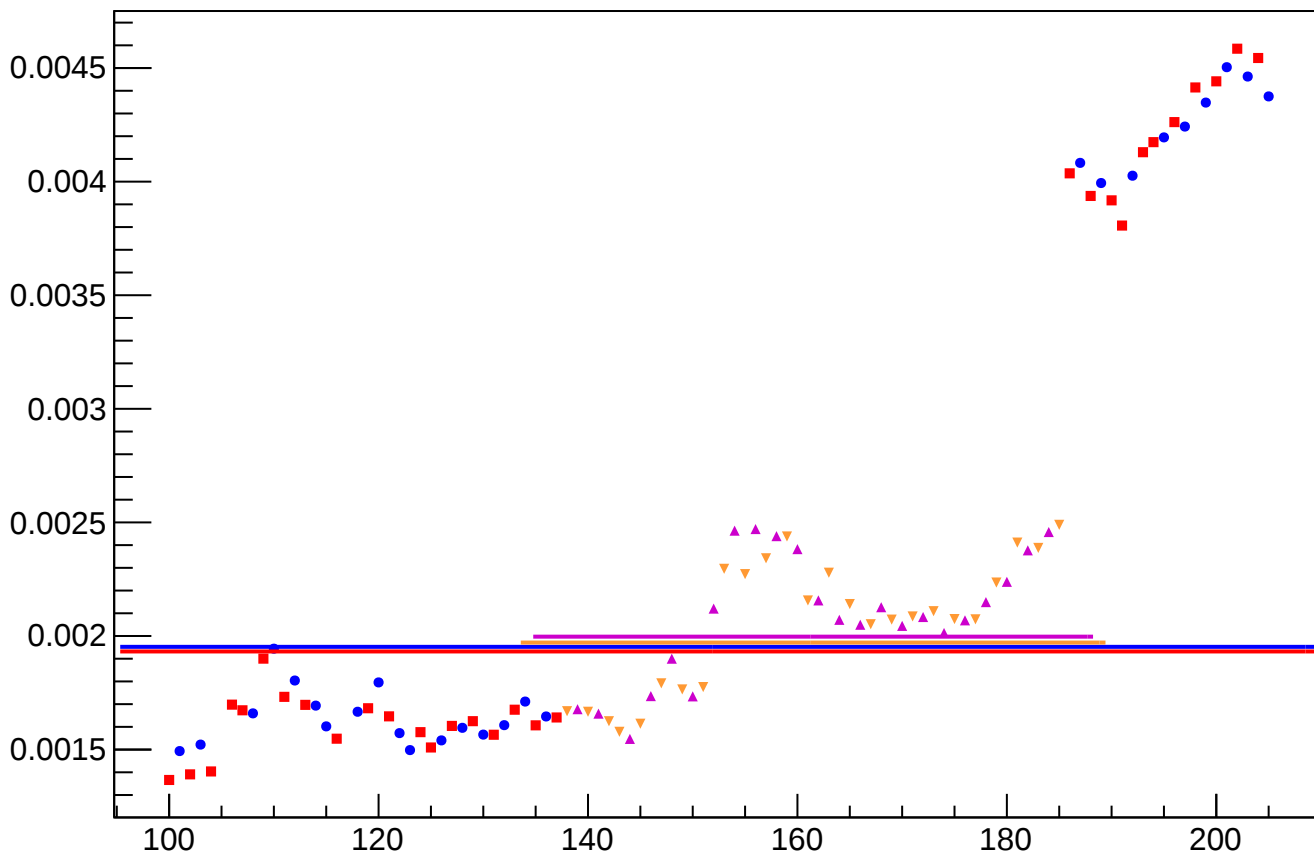
Right: 0.321+/-0.000 χ^2/NDF : 282249131386.4/55

In: 0.408+/-0.000 χ^2/NDF : 266856225226.0/48

Out: 0.402+/-0.000 χ^2/NDF : 292033760672.1/54

All: 0.405+/-0.000 χ^2/NDF : 559030107057.1

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4287121.3/25

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4883592.3/29

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

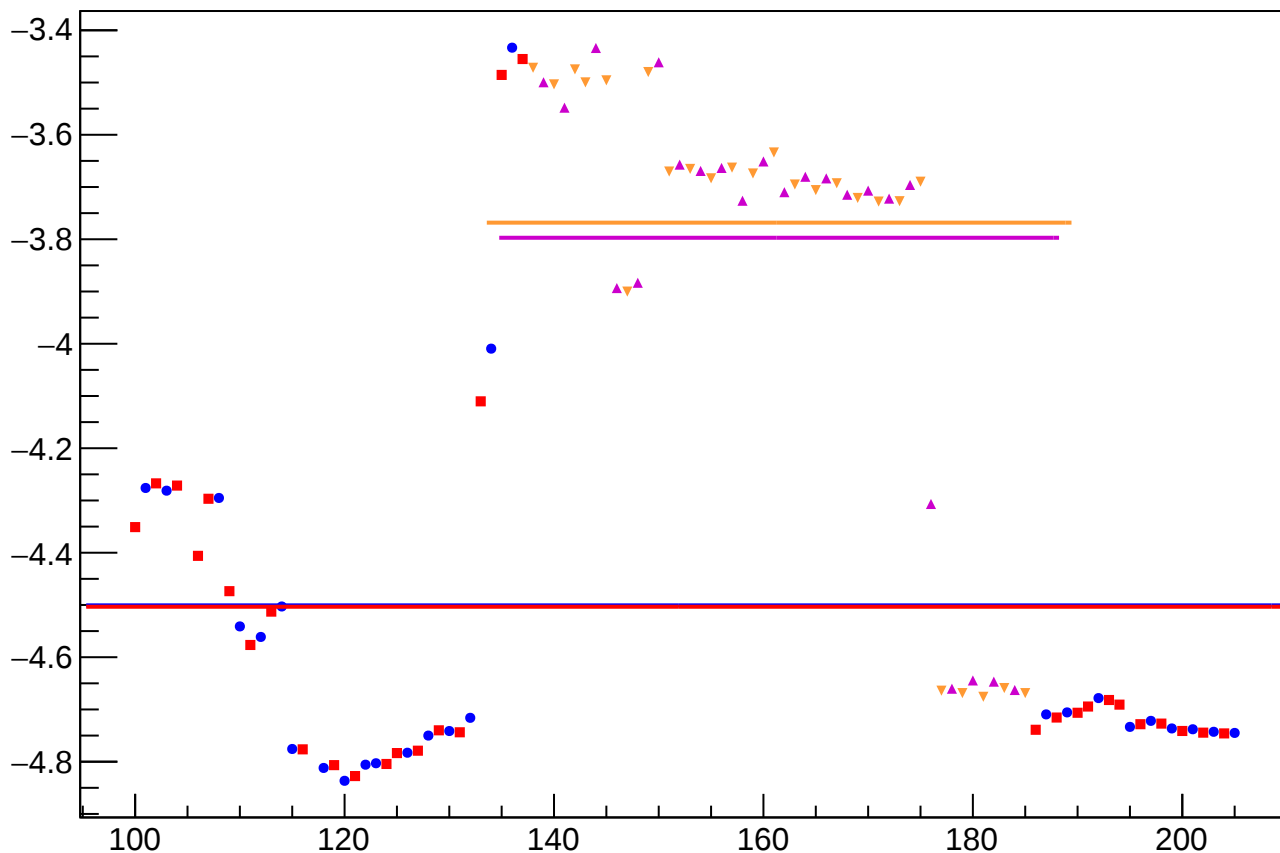
Right: 0.002+/-0.000 χ^2/NDF : 9171926.4/55

In: 0.002+/-0.000 χ^2/NDF : 4960253.4/48

Out: 0.002+/-0.000 χ^2/NDF : 5619483.9/54

All: 0.002+/-0.000 χ^2/NDF : 10583944.5/103

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.501+/-0.000

χ^2/NDF : 429754434552.2/25

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right Out: -4.503+/-0.000

χ^2/NDF : 365836629029.0/29

Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Right: -4.502+/-0.000

χ^2/NDF : 795600531312.6/55

In: -4.092+/-0.000

χ^2/NDF : 1611843223562.0/48

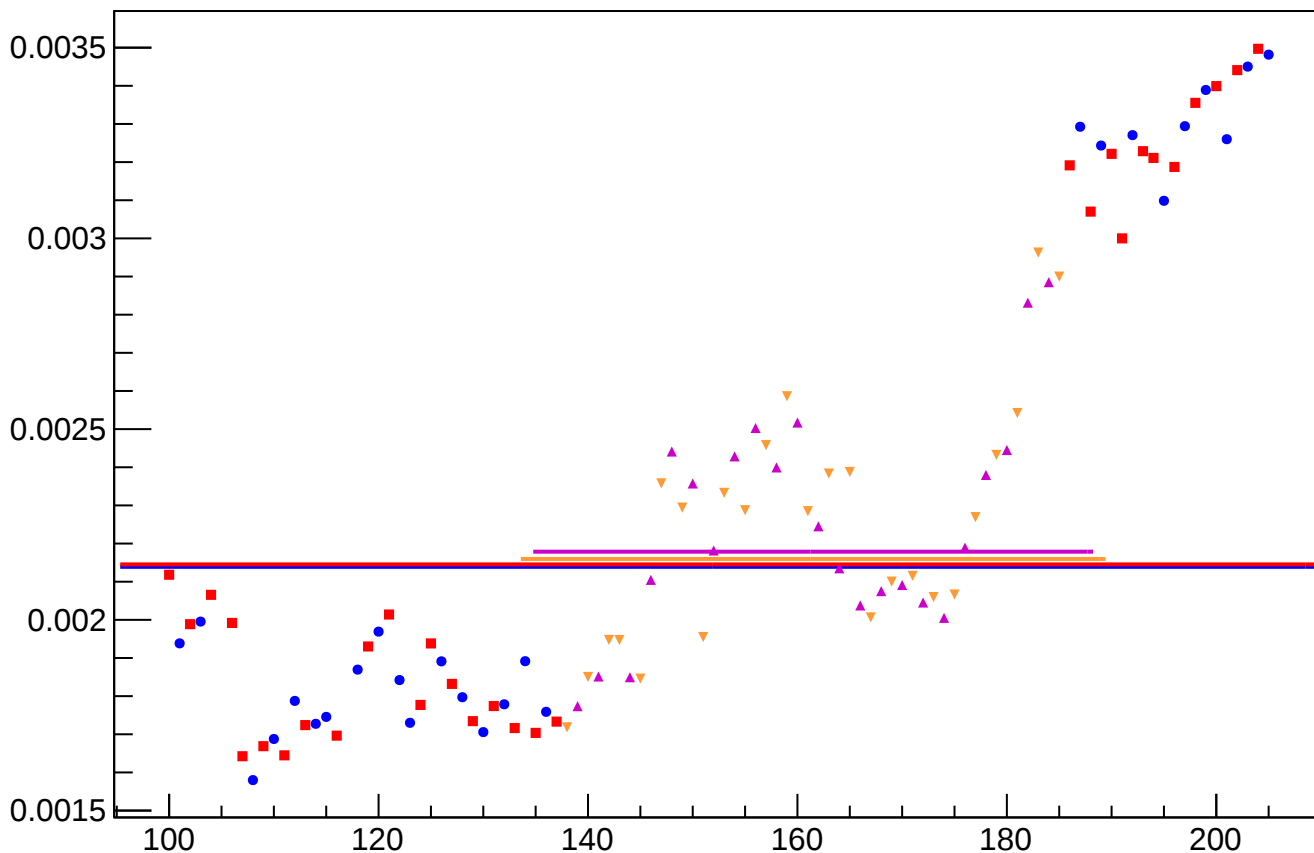
Out: -4.079+/-0.000

χ^2/NDF : 1752712461966.7/54

All: -4.085+/-0.000

χ^2/NDF : 3365149170038

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2068818.6/25

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2262951.8/29

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

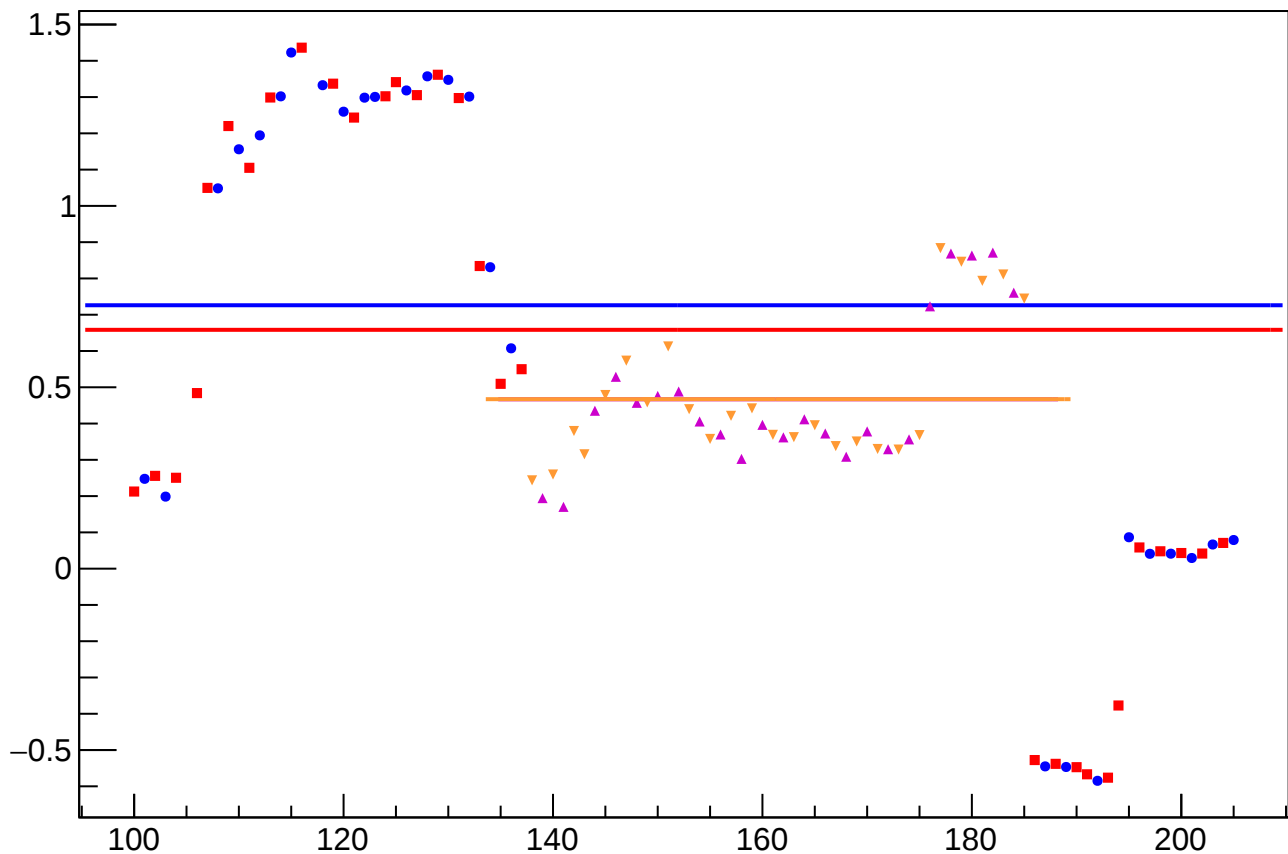
Right: 0.002+/-0.000 χ^2/NDF : 4331875.8/55

In: 0.002+/-0.000 χ^2/NDF :2536782.1/48

Out: 0.002+/-0.000 χ^2/NDF :2811441.3/54

All: 0.002+/-0.000 χ^2/NDF : 5348679.9/103

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.726+/-0.000

χ^2/NDF : 73000080881.8/25

Left: 0.467+/-0.000

χ^2/NDF : 15396100488.4/47

Left Out: 0.467+/-0.000

χ^2/NDF : 7359344143.3/24

Right: 0.690+/-0.000

χ^2/NDF : 167109408960.5/55

Right Out: 0.658+/-0.000

χ^2/NDF : 93688020264.1/29

In: 0.589+/-0.000

χ^2/NDF : 87185223281.1/48

Out: 0.560+/-0.000

χ^2/NDF : 104742839422.9/54

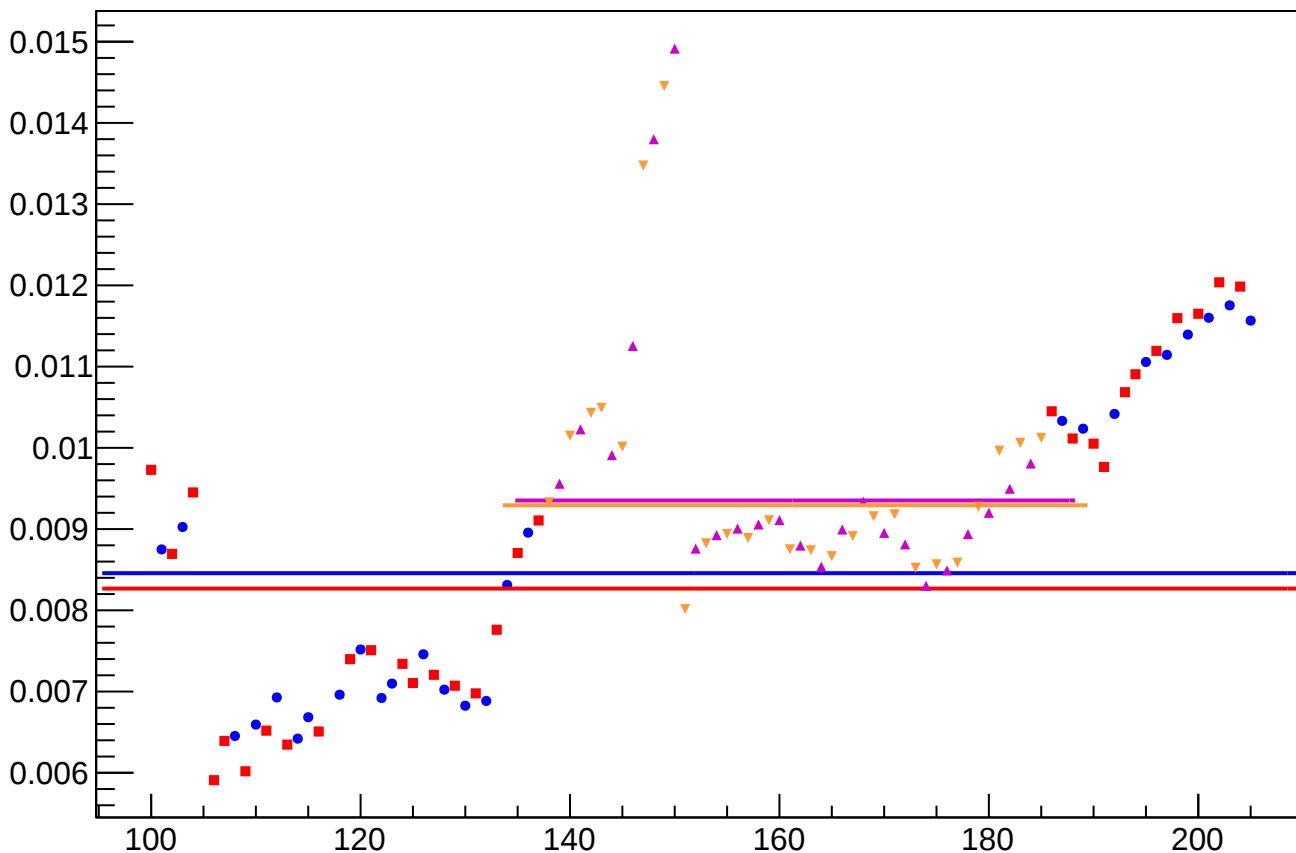
Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.574+/-0.000

χ^2/NDF : 192091866621.5

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1225034.8/25

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1541049.4/29

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

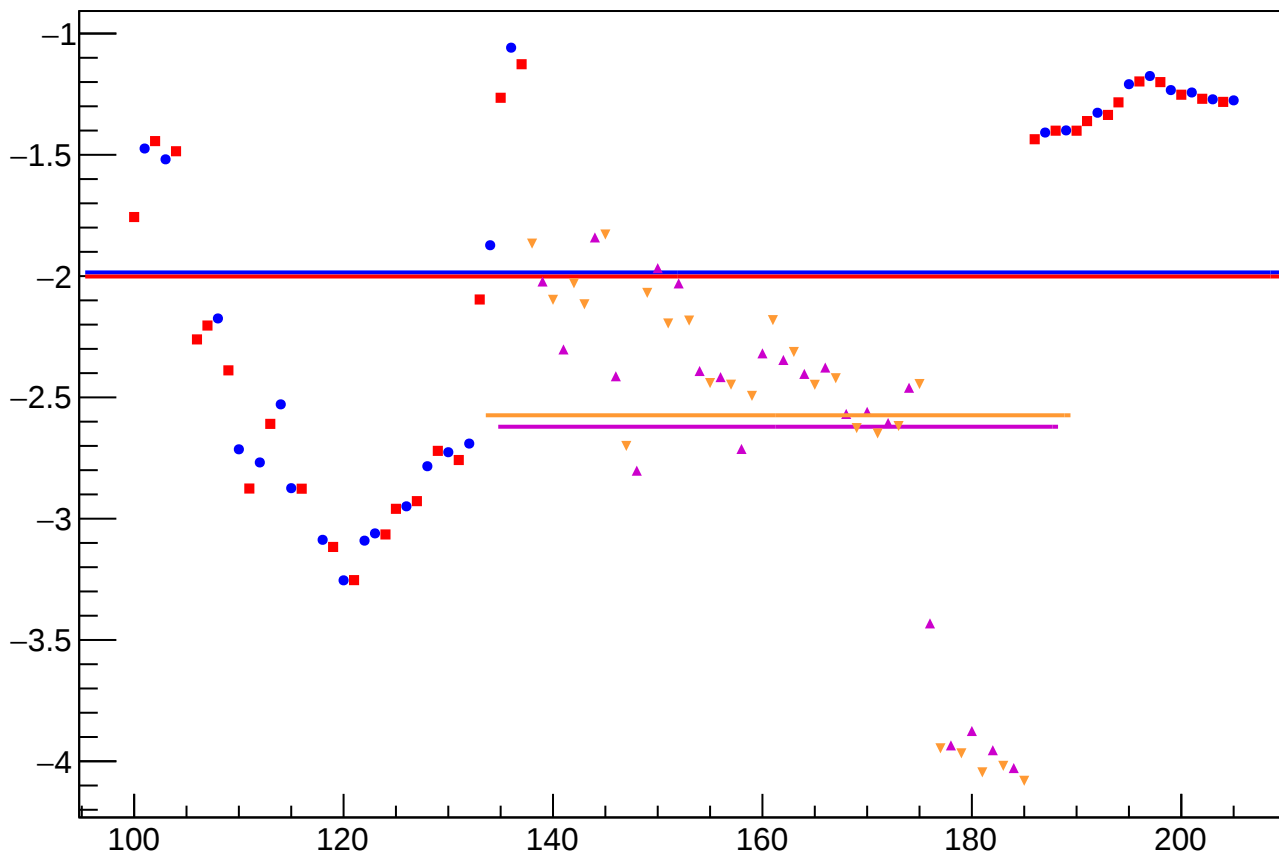
Right: 0.008+/-0.000 χ^2/NDF : 2772688.2/55

In: 0.009+/-0.000 χ^2/NDF :1929001.8/48

Out: 0.009+/-0.000 χ^2/NDF :2281878.0/54

All: 0.009+/-0.000 χ^2/NDF : 4217801.5/103

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.985+/-0.000

χ^2/NDF : 120741556782.4/25

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -1.994+/-0.000

χ^2/NDF : 238205383900.2/55

Right Out: -2.002+/-0.000

χ^2/NDF : 117433412370.0/29

In: -2.316+/-0.000

χ^2/NDF : 245081624333.8/48

Out: -2.296+/-0.000

χ^2/NDF : 254665994844.8/54

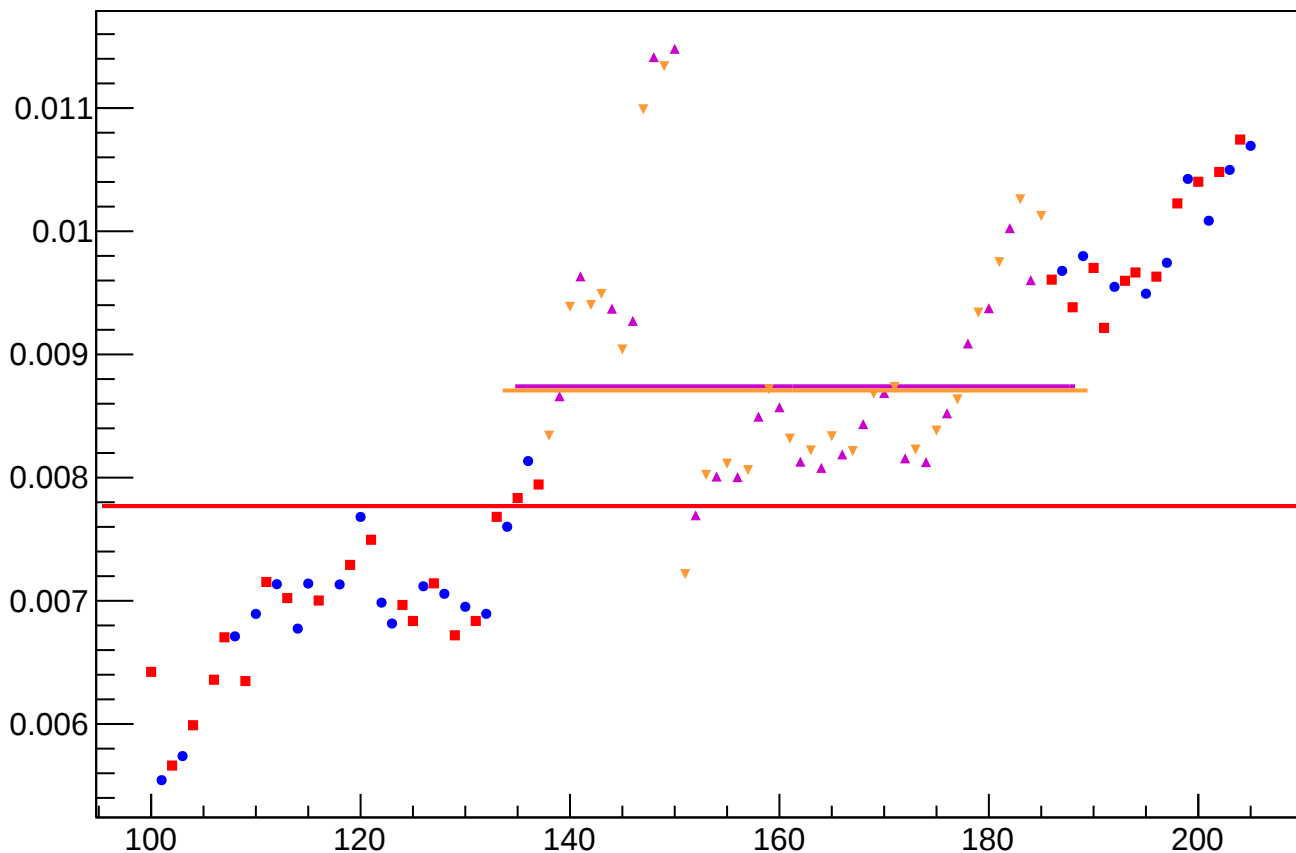
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.306+/-0.000

χ^2/NDF : 499837330220.1

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1089422.1/25

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1103720.5/29

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

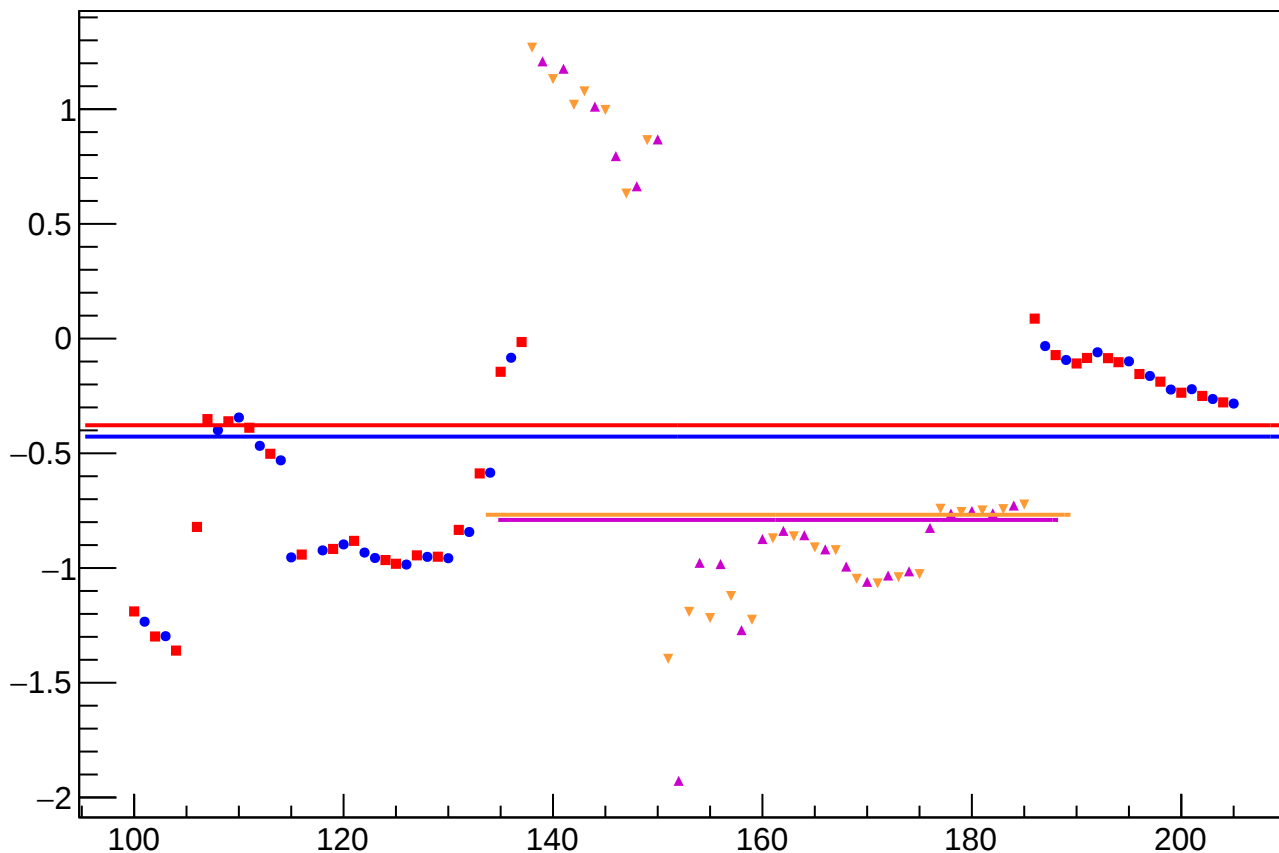
Right: 0.008+/-0.000 χ^2/NDF : 2193143.0/55

In: 0.008+/-0.000 χ^2/NDF : 1646529.8/48

Out: 0.008+/-0.000 χ^2/NDF : 1677547.9/54

All: 0.008+/-0.000 χ^2/NDF : 3324308.4/103

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.427+/-0.000

χ^2/NDF : 22353496220.8/25

Left Out: -0.768+/-0.000

χ^2/NDF : 120774855982.9/24

Right Out: -0.378+/-0.000

χ^2/NDF : 25015524299.9/29

Left In: -0.790+/-0.000

χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000

χ^2/NDF : 244297726249.8/47

Right: -0.401+/-0.000

χ^2/NDF : 47554810252.3/55

In: -0.665+/-0.000

χ^2/NDF : 158173431957.9/48

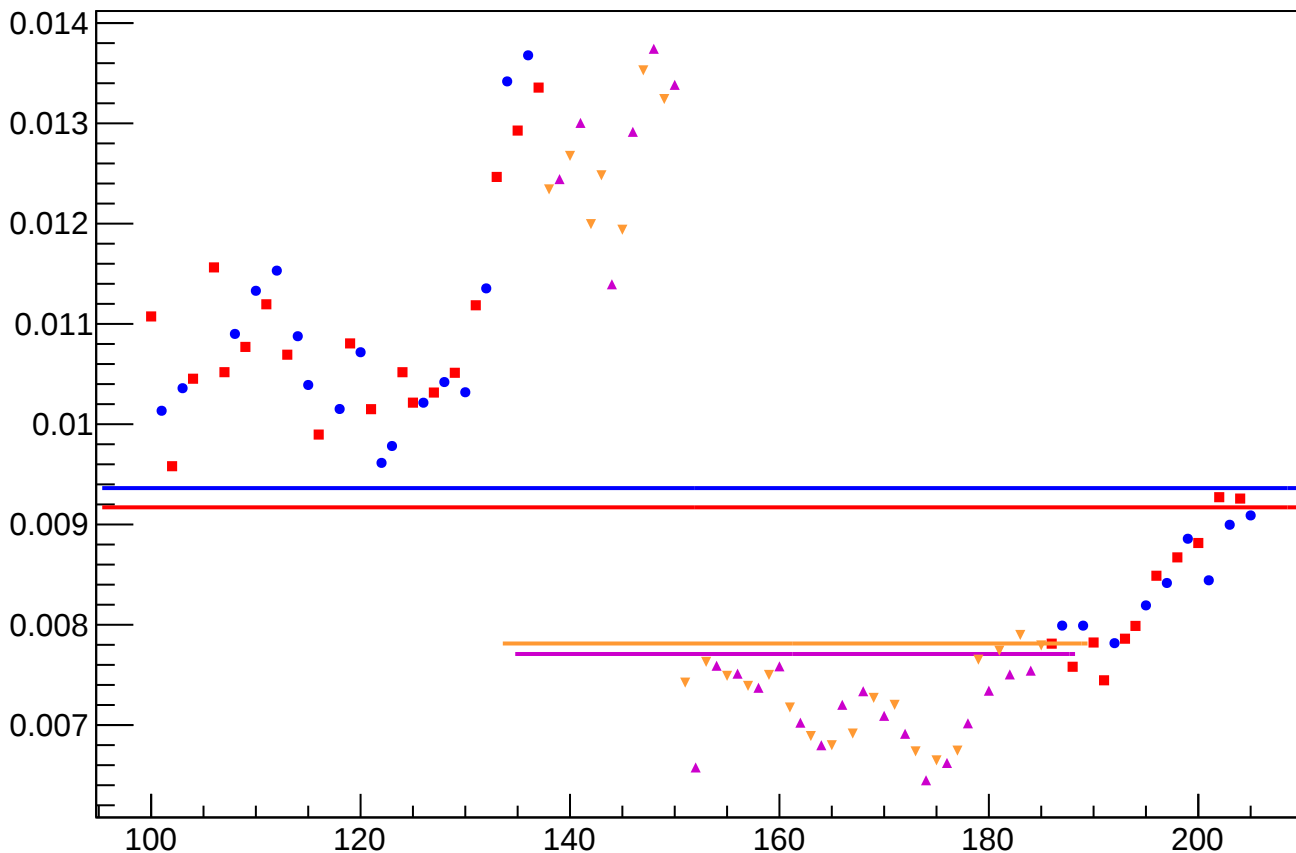
Out: -0.626+/-0.000

χ^2/NDF : 161430792569.0/54

All: -0.645+/-0.000

χ^2/NDF : 319942444056.6

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 540697.8/25

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 628133.5/29

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

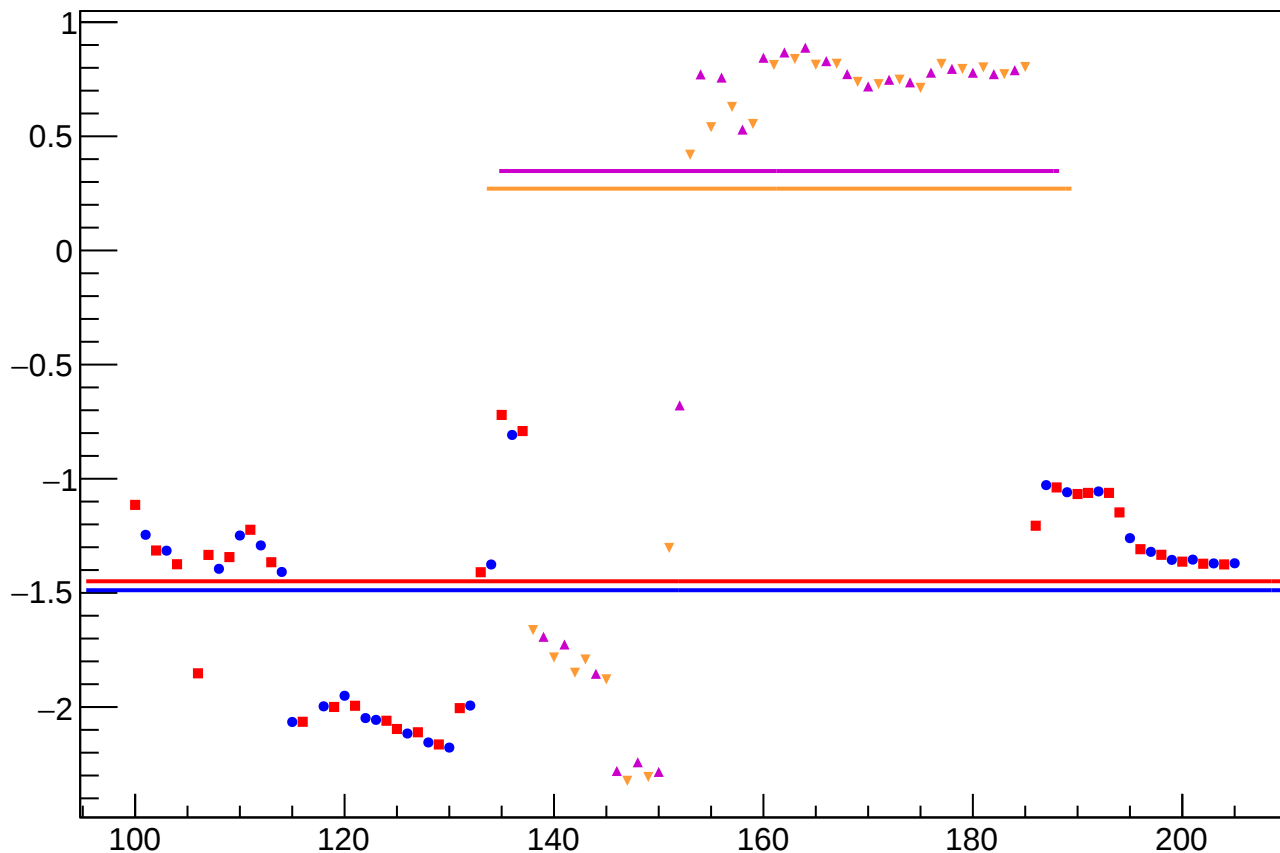
Right: 0.009+/-0.000 χ^2/NDF : 1174422.6/55

In: 0.008+/-0.000 χ^2/NDF :2800574.6/48

Out: 0.008+/-0.000 χ^2/NDF :2713100.5/54

All: 0.008+/-0.000 χ^2/NDF : 5514059.2/103

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.488+/-0.000 χ^2/NDF : 173948014142.0/25

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.449+/-0.000 χ^2/NDF : 163938578119.0/29

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

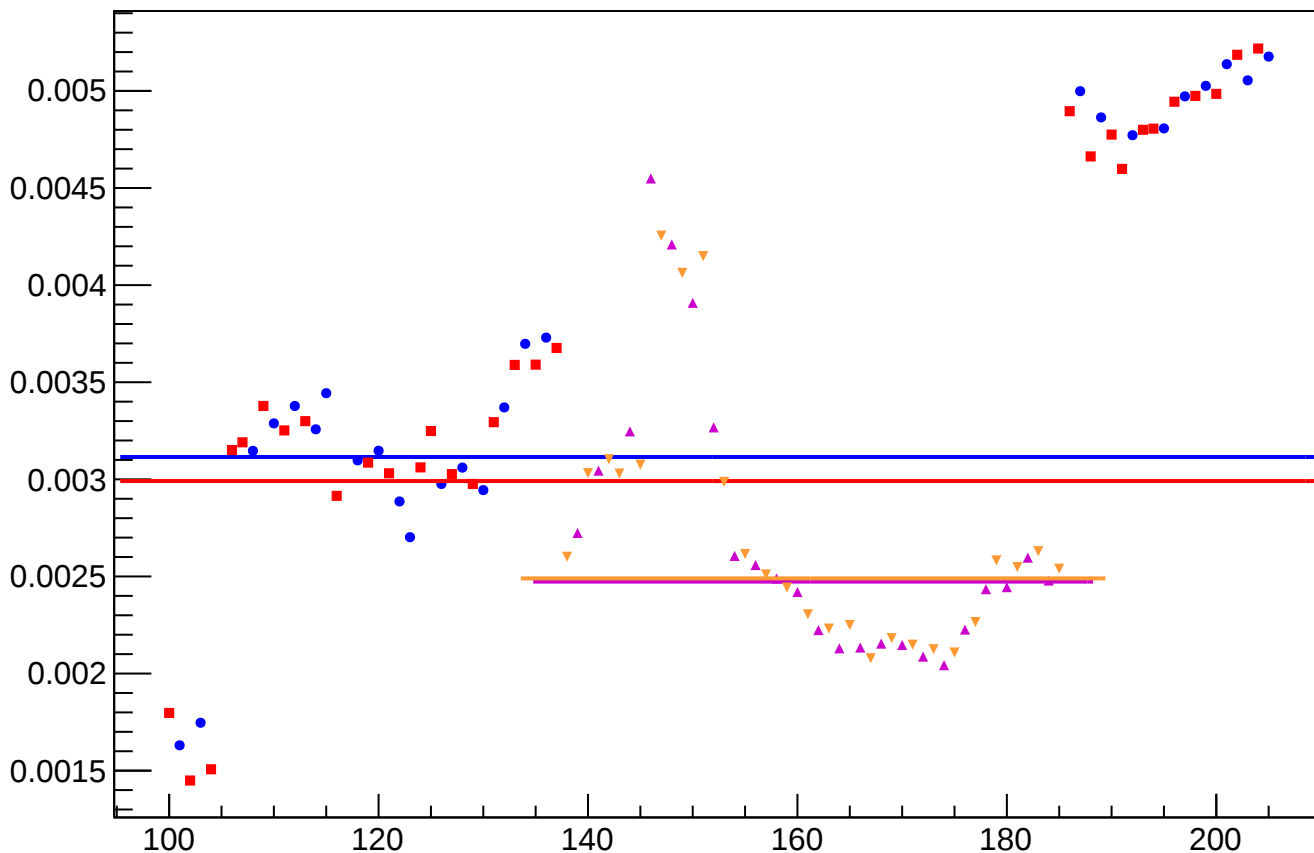
Right: -1.467+/-0.000 χ^2/NDF : 338788480093.4/55

In: -0.215+/-0.000 χ^2/NDF : 5014341774643.3/48

Out: -0.286+/-0.000 χ^2/NDF : 5256227716624.3/54

All: -0.252+/-0.000 χ^2/NDF : 1027985824093

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3225561.2/25

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4225464.5/29

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

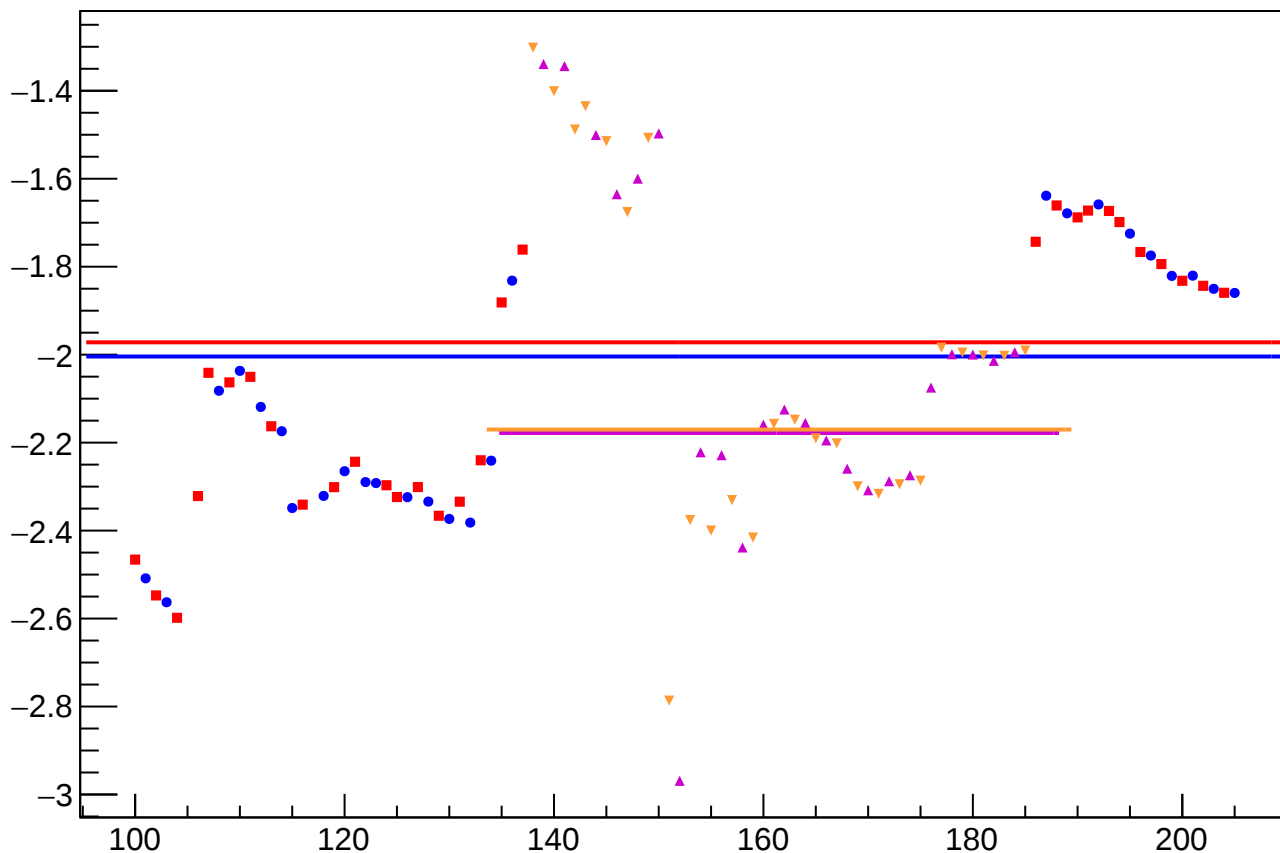
Right: 0.003+/-0.000 χ^2/NDF : 7469020.7/55

In: 0.003+/-0.000 χ^2/NDF :4987615.5/48

Out: 0.003+/-0.000 χ^2/NDF :5721725.7/54

All: 0.003+/-0.000 χ^2/NDF : 10710547.1/103

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.004+/-0.000

χ^2/NDF : 30187328780.9/25

Left: -2.174+/-0.000

χ^2/NDF : 133392029481.5/47

Right: -1.987+/-0.000

χ^2/NDF : 64899835909.4/55

Left Out: -2.170+/-0.000

χ^2/NDF : 59967315241.9/24

In: -2.123+/-0.000

χ^2/NDF : 110564838561.3/48

Right Out: -1.972+/-0.000

χ^2/NDF : 34527034861.3/29

Out: -2.104+/-0.000

χ^2/NDF : 104427192540.4/54

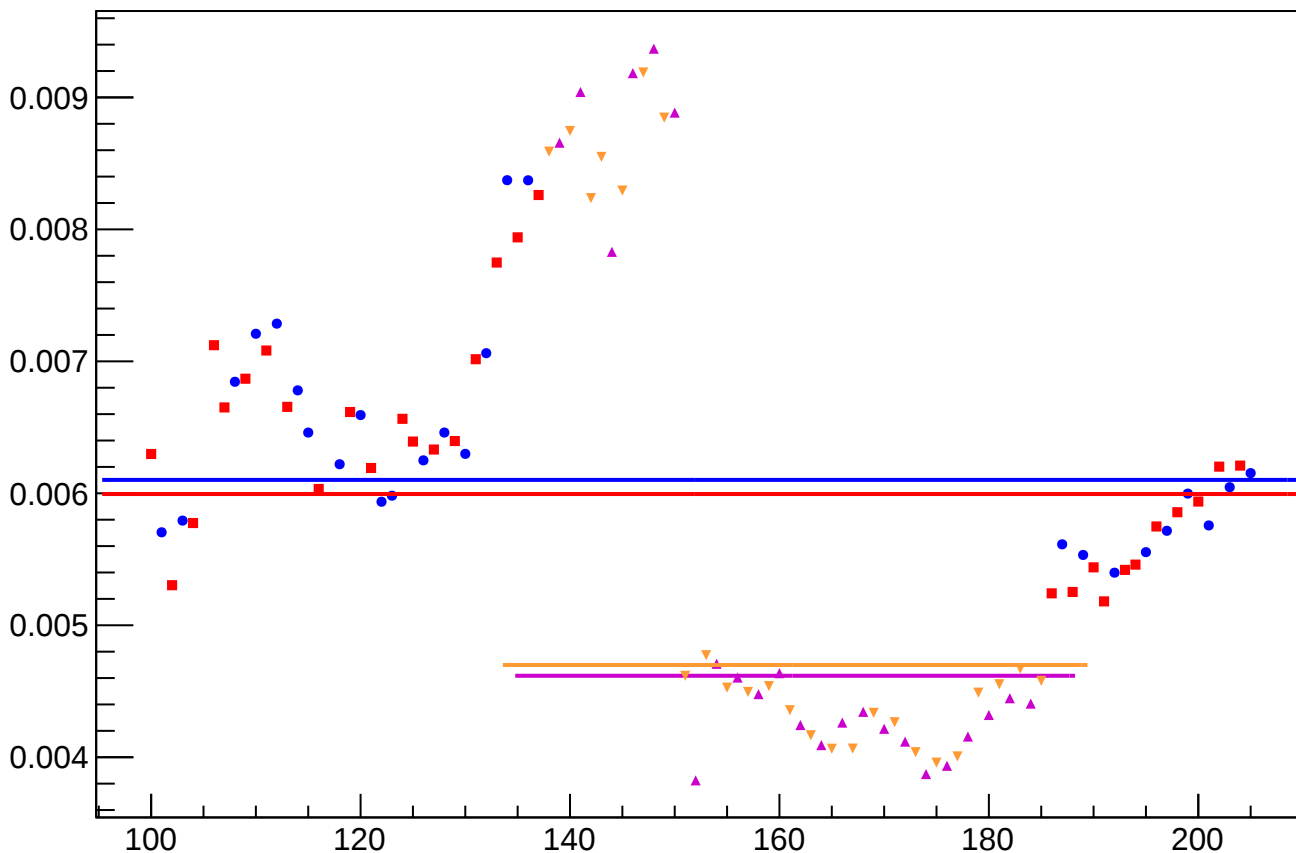
Left In: -2.178+/-0.000

χ^2/NDF : 73402051113.3/22

All: -2.113+/-0.000

χ^2/NDF : 215198702600.3

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 301884.4/25

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 352773.2/29

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

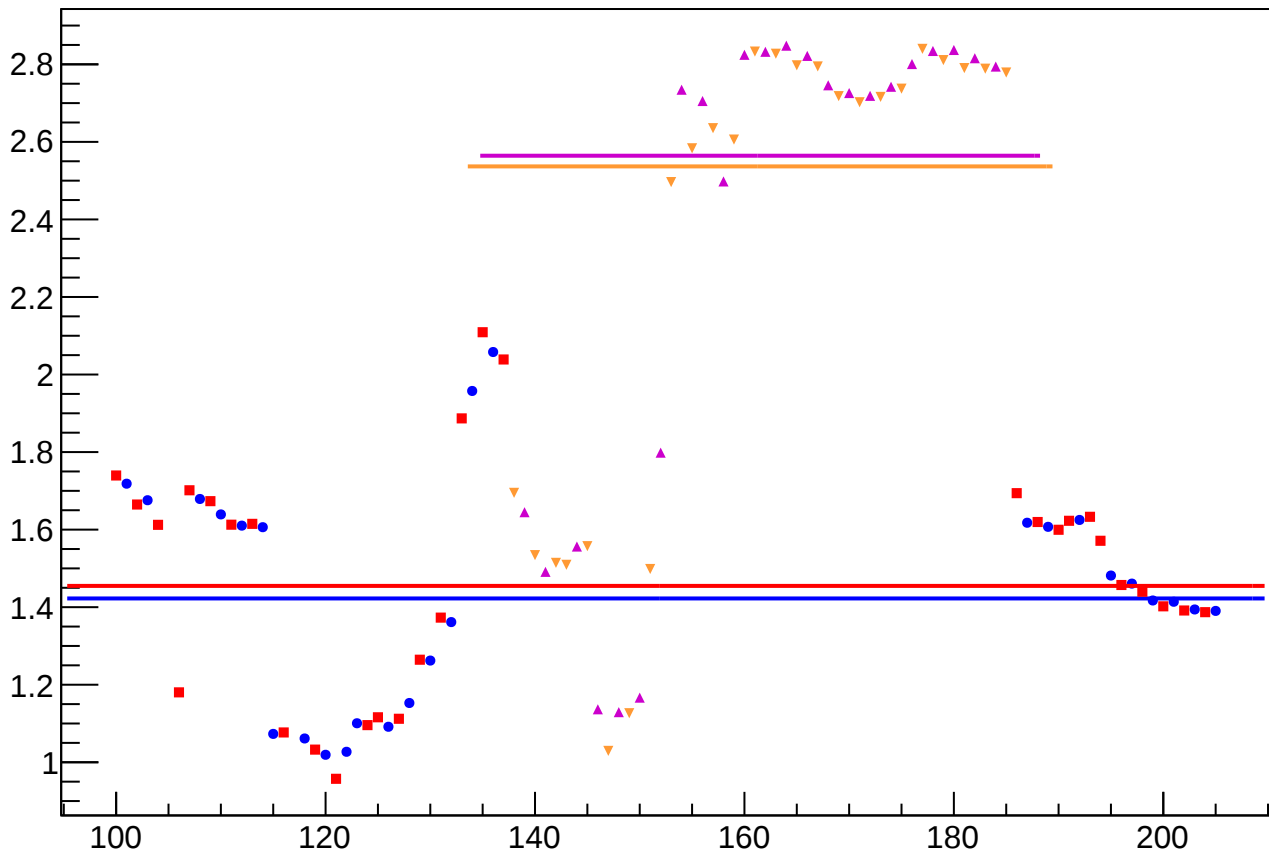
Right: 0.006+/-0.000 χ^2/NDF : 658758.5/55

In: 0.005+/-0.000 χ^2/NDF :3686073.0/48

Out: 0.005+/-0.000 χ^2/NDF :3520327.0/54

All: 0.005+/-0.000 χ^2/NDF : 7208874.6/103

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 174135759893.8/25

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.455+/-0.000 χ^2/NDF : 176900285442.2/29

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

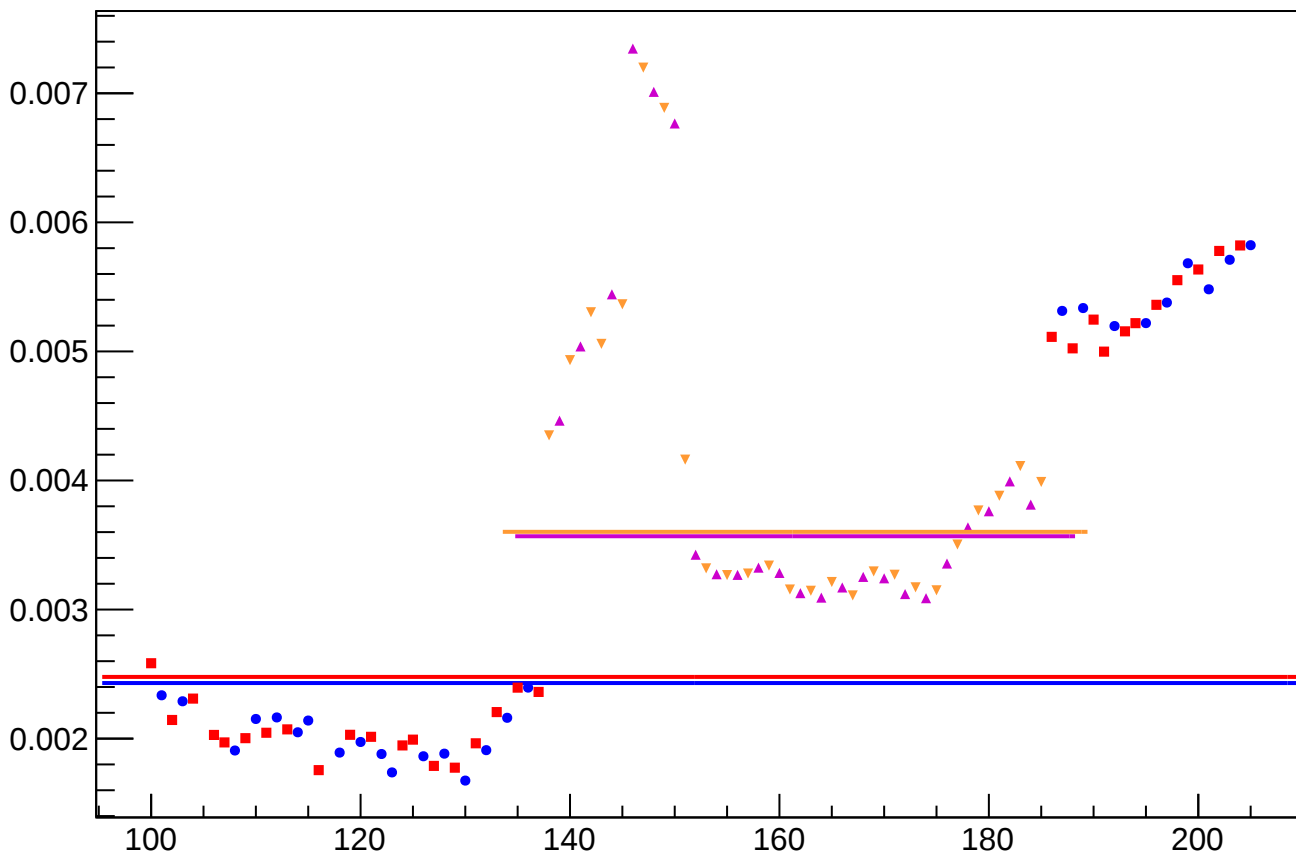
Right: 1.439+/-0.000 χ^2/NDF : 351964428906.6/55

In: 1.897+/-0.000 χ^2/NDF : 1369148563663.5/48

Out: 1.904+/-0.000 χ^2/NDF : 1329003090484.4/54

All: 1.900+/-0.000 χ^2/NDF : 2698222916446.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4543435.3/25

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4840219.9/29

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

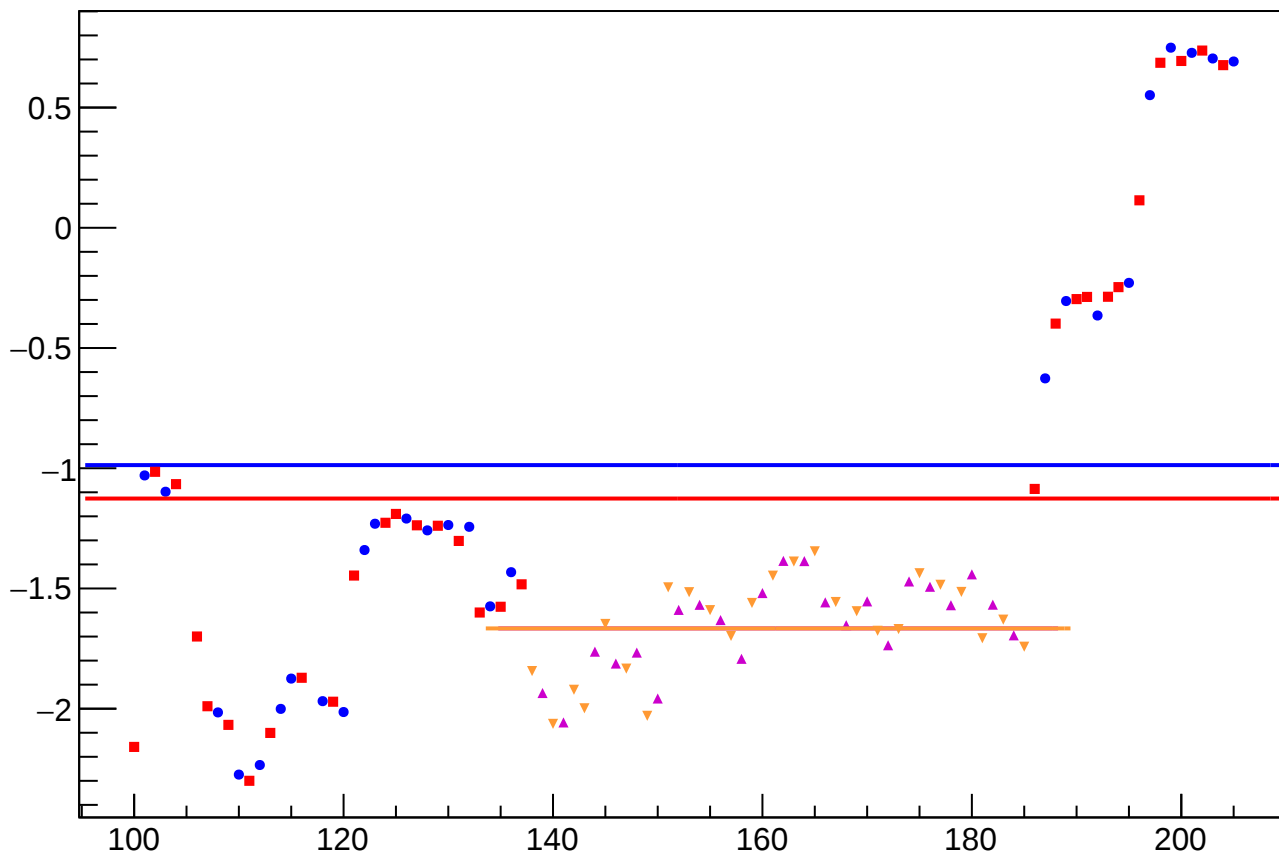
Right: 0.002+/-0.000 χ^2/NDF : 9387650.6/55

In: 0.003+/-0.000 χ^2/NDF :7961248.6/48

Out: 0.003+/-0.000 χ^2/NDF :8156607.5/54

All: 0.003+/-0.000 χ^2/NDF : 16123036.2/103

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.987+/-0.000

χ²/NDF: 161466842954.9/25

Left: -1.666+/-0.000

χ²/NDF: 32617732948.1/47

Left Out: -1.666+/-0.000

χ²/NDF: 18325162131.2/24

Right: -1.062+/-0.000

χ²/NDF: 341181294475.3/55

Right Out: -1.126+/-0.000

χ²/NDF: 177686111443.4/29

In: -1.448+/-0.000

χ²/NDF: 236471932570.8/48

Out: -1.482+/-0.000

χ²/NDF: 239933777875.3/54

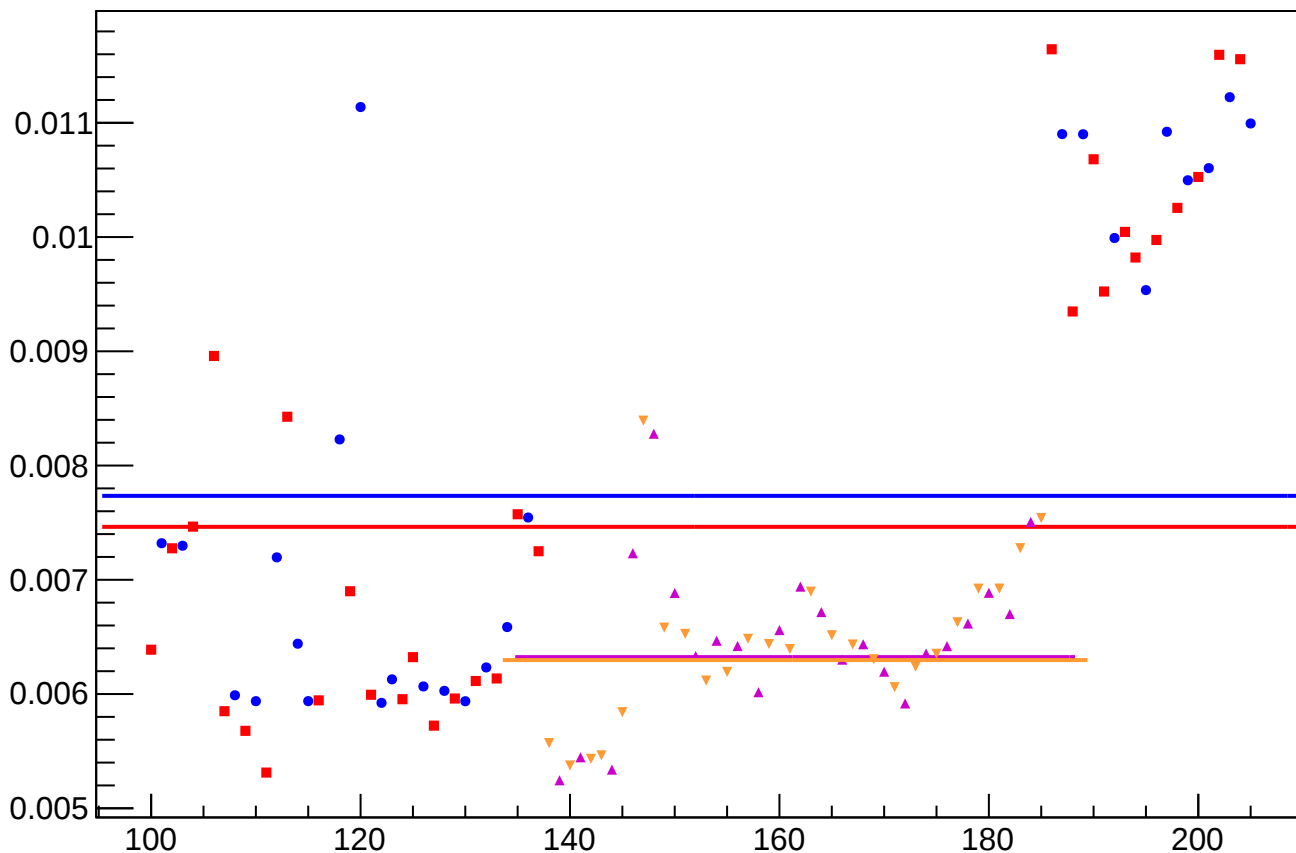
Left In: -1.666+/-0.000

χ²/NDF: 14292570816.9/22

All: -1.466+/-0.000

χ²/NDF: 476763300806.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1452165.7/25

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1721949.0/29

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

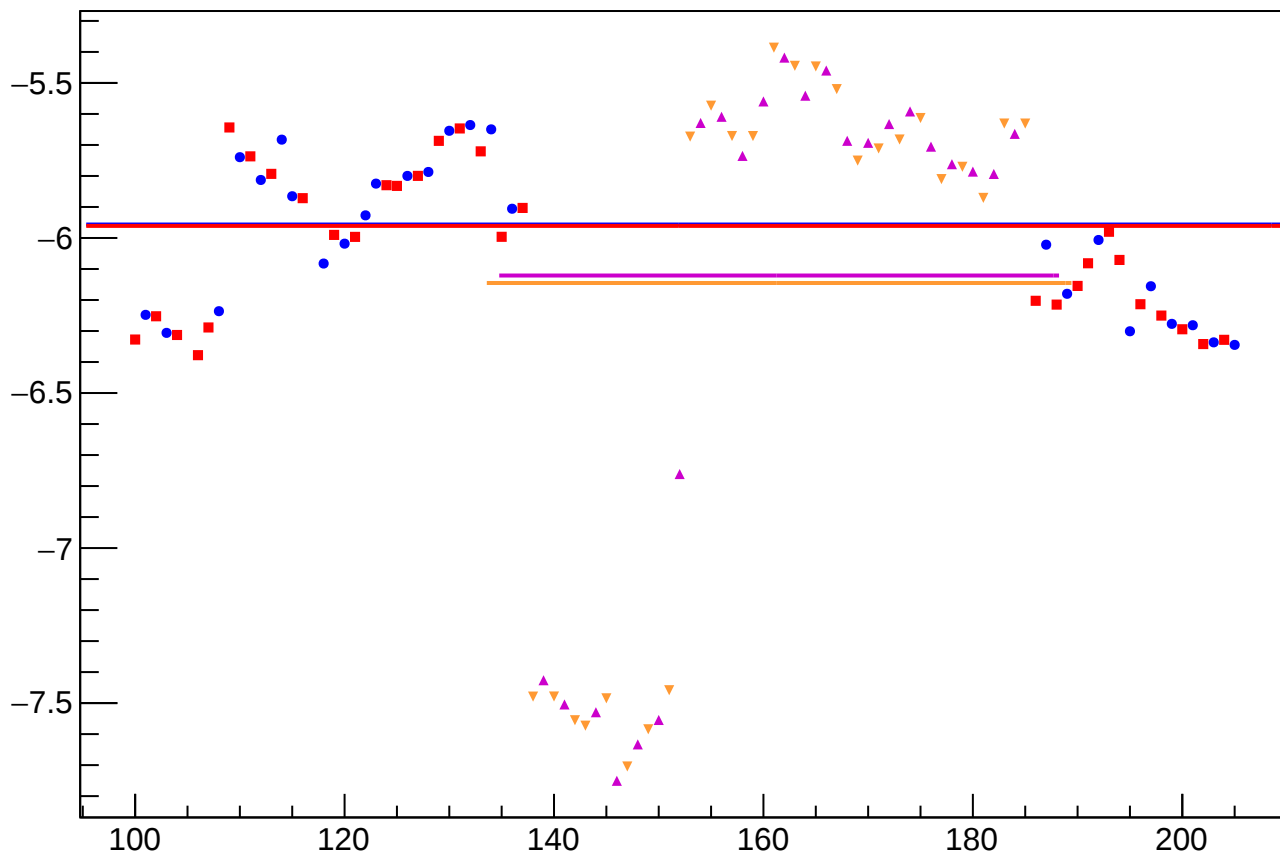
Right: 0.008+/-0.000 χ^2/NDF : 3189551.9/55

In: 0.007+/-0.000 χ^2/NDF :2307478.3/48

Out: 0.007+/-0.000 χ^2/NDF :2442200.7/54

All: 0.007+/-0.000 χ^2/NDF : 4753819.6/103

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.957+/-0.000

χ^2/NDF : 14510220676.2/25

Left: -6.133+/-0.000

χ^2/NDF : 343753122832.9/47

Left Out: -6.145+/-0.000

χ^2/NDF : 185364150237.7/24

Right: -5.959+/-0.000

χ^2/NDF : 30310697316.7/55

Right Out: -5.961+/-0.000

χ^2/NDF : 15798080831.6/29

In: -6.040+/-0.000

χ^2/NDF : 176091658092.4/48

Out: -6.052+/-0.000

χ^2/NDF : 205574529173.7/54

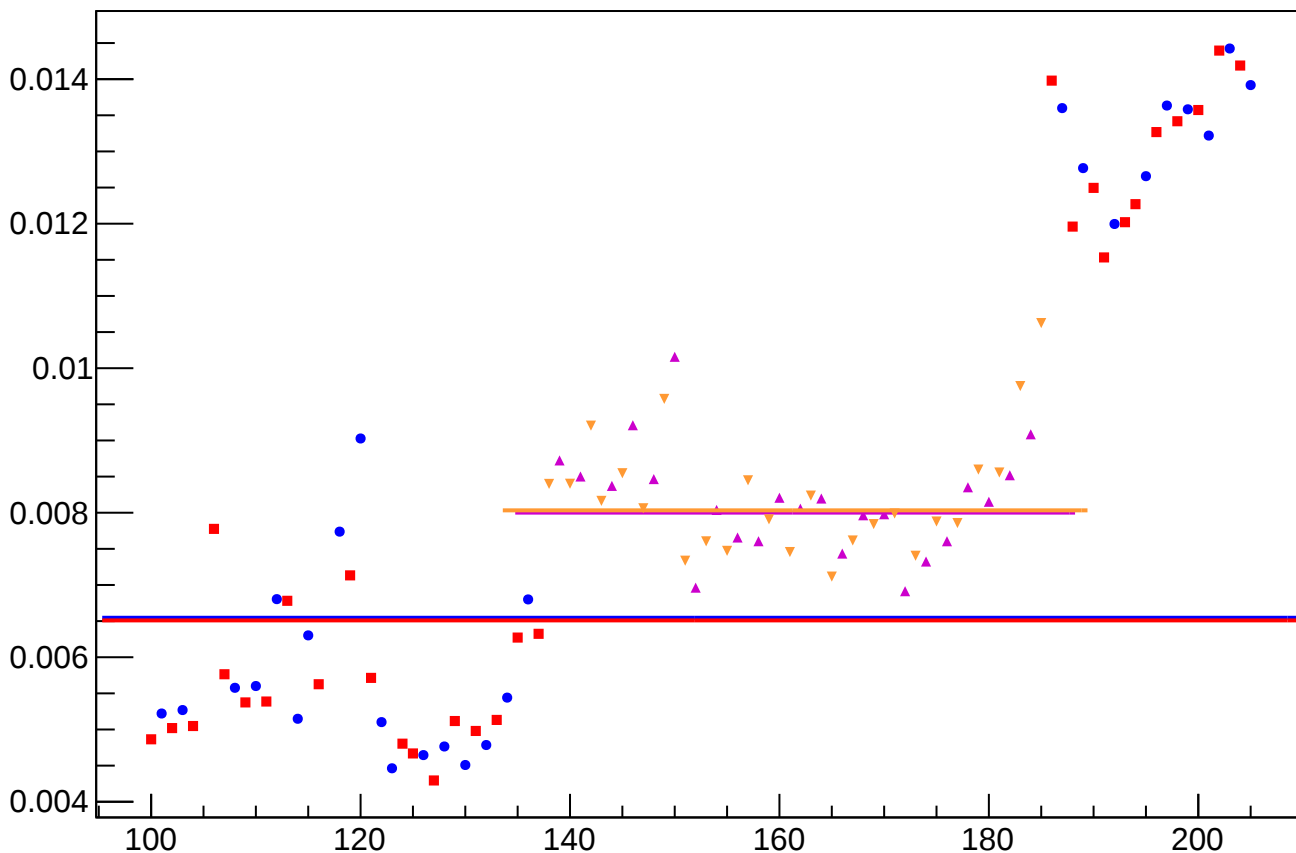
Left In: -6.121+/-0.000

χ^2/NDF : 158315913062.3/22

All: -6.046+/-0.000

χ^2/NDF : 381698875811.2

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4019264.1/25

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4255533.3/29

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

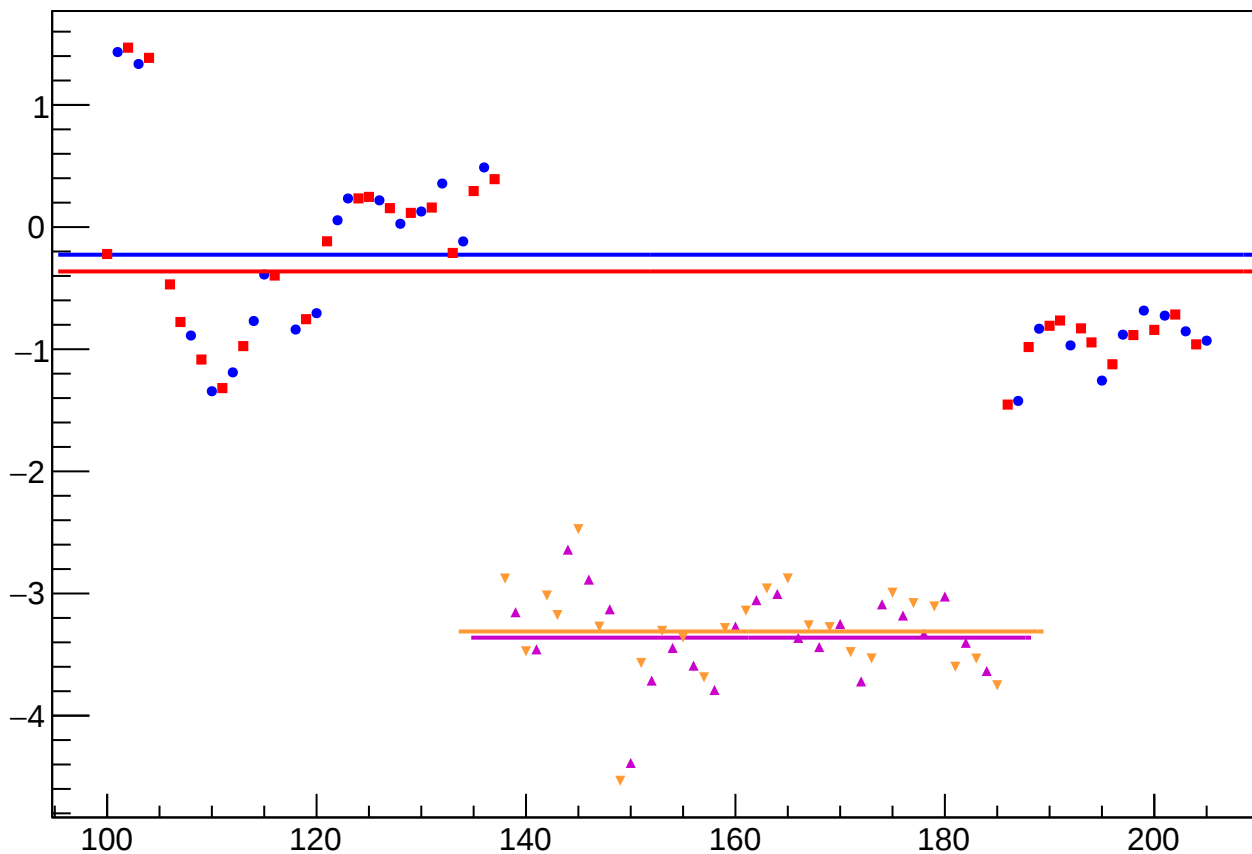
Right: 0.007+/-0.000 χ^2/NDF : 8275125.2/55

In: 0.007+/-0.000 χ^2/NDF :4751670.8/48

Out: 0.007+/-0.000 χ^2/NDF :5064798.8/54

All: 0.007+/-0.000 χ^2/NDF : 9816829.7/103

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 30316253402.9/25$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.363 ± 0.000 $\chi^2/\text{NDF}: 31953343811.0/29$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

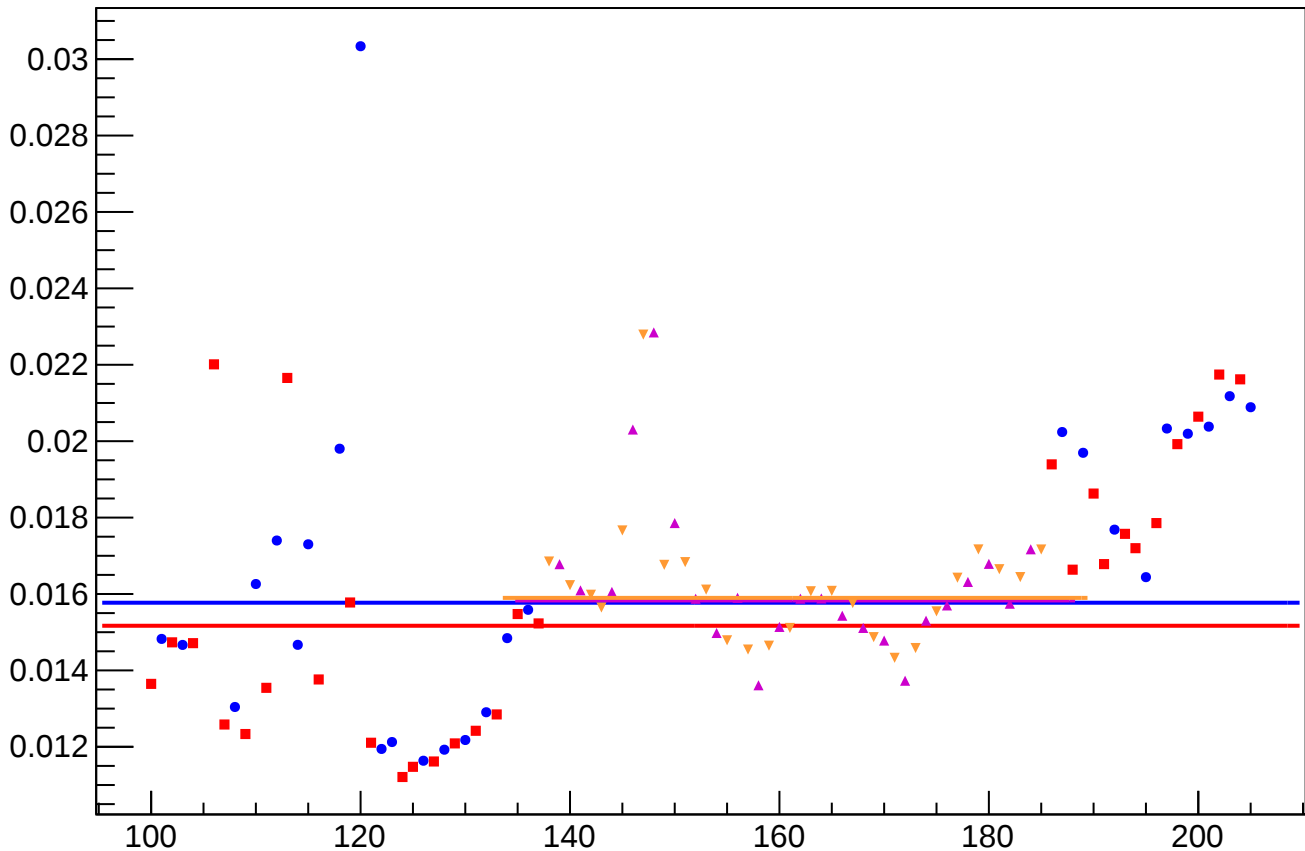
Right: -0.301 ± 0.000 $\chi^2/\text{NDF}: 62750397048.6/55$

In: -2.059 ± 0.000 $\chi^2/\text{NDF}: 309072735817.4/48$

Out: -1.997 ± 0.000 $\chi^2/\text{NDF}: 312210118287.7/54$

All: -2.026 ± 0.000 $\chi^2/\text{NDF}: 621515831011.0$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1115952.7/25

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1128941.4/29

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

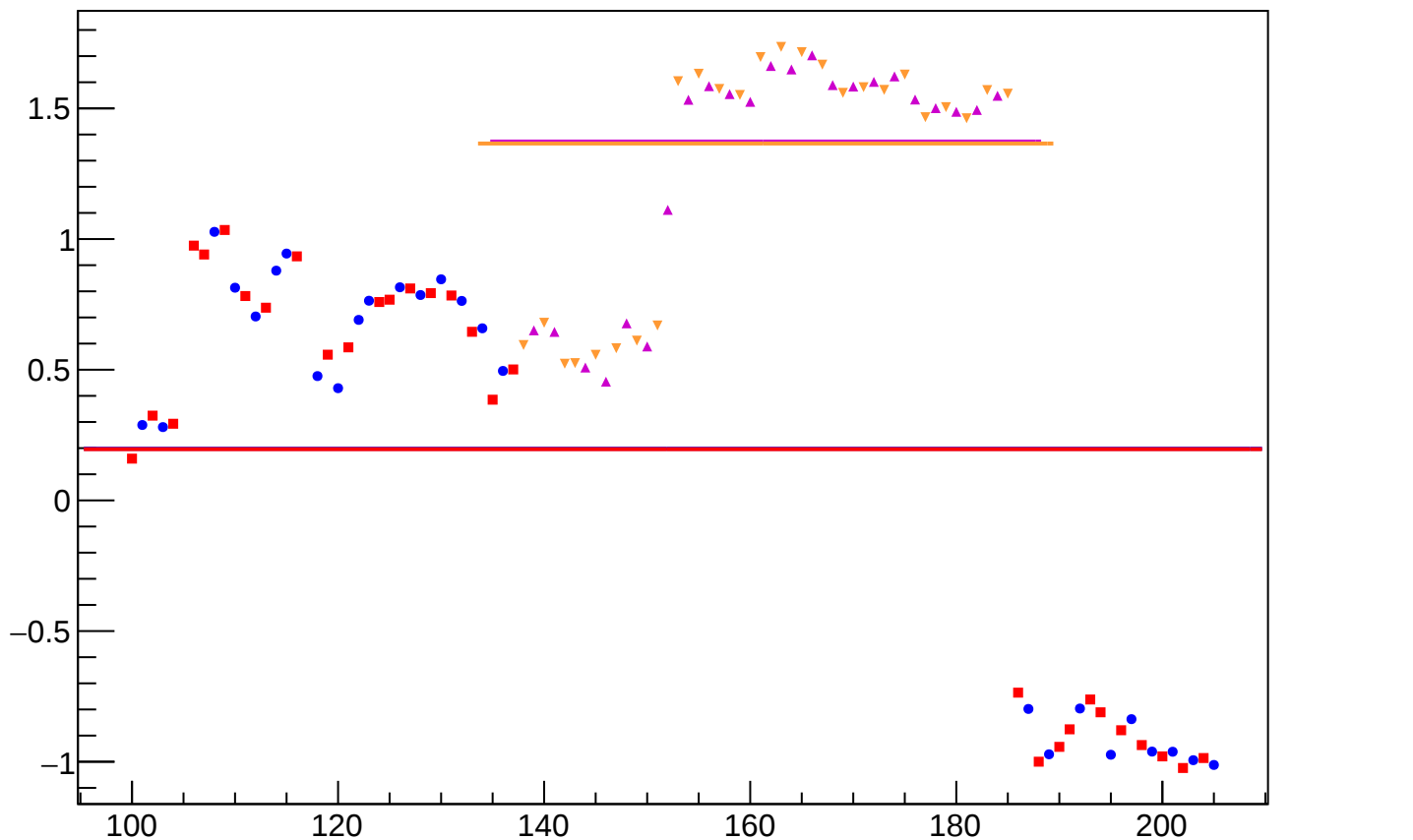
Right: 0.015+/-0.000 χ^2/NDF : 2263529.2/55

In: 0.016+/-0.000 χ^2/NDF :1455687.1/48

Out: 0.016+/-0.000 χ^2/NDF :1414060.0/54

All: 0.016+/-0.000 χ^2/NDF : 2876234.5/103

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.198 $\pm$ 0.000

χ^2 /NDF: 67257867962.5/25

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

Right: 0.197 $\pm$ 0.000 χ^2 /NDF: 145505365112.6/55

Left Out: 1.366 $\pm$ 0.000

χ^2 /NDF: 74741956067.9/24

In: 1.098 $\pm$ 0.000 χ^2 /NDF: 268852105161.1/48

Out: 1.059 $\pm$ 0.000 χ^2 /NDF: 305683600471.4/54

Right Out: 0.196 $\pm$ 0.000

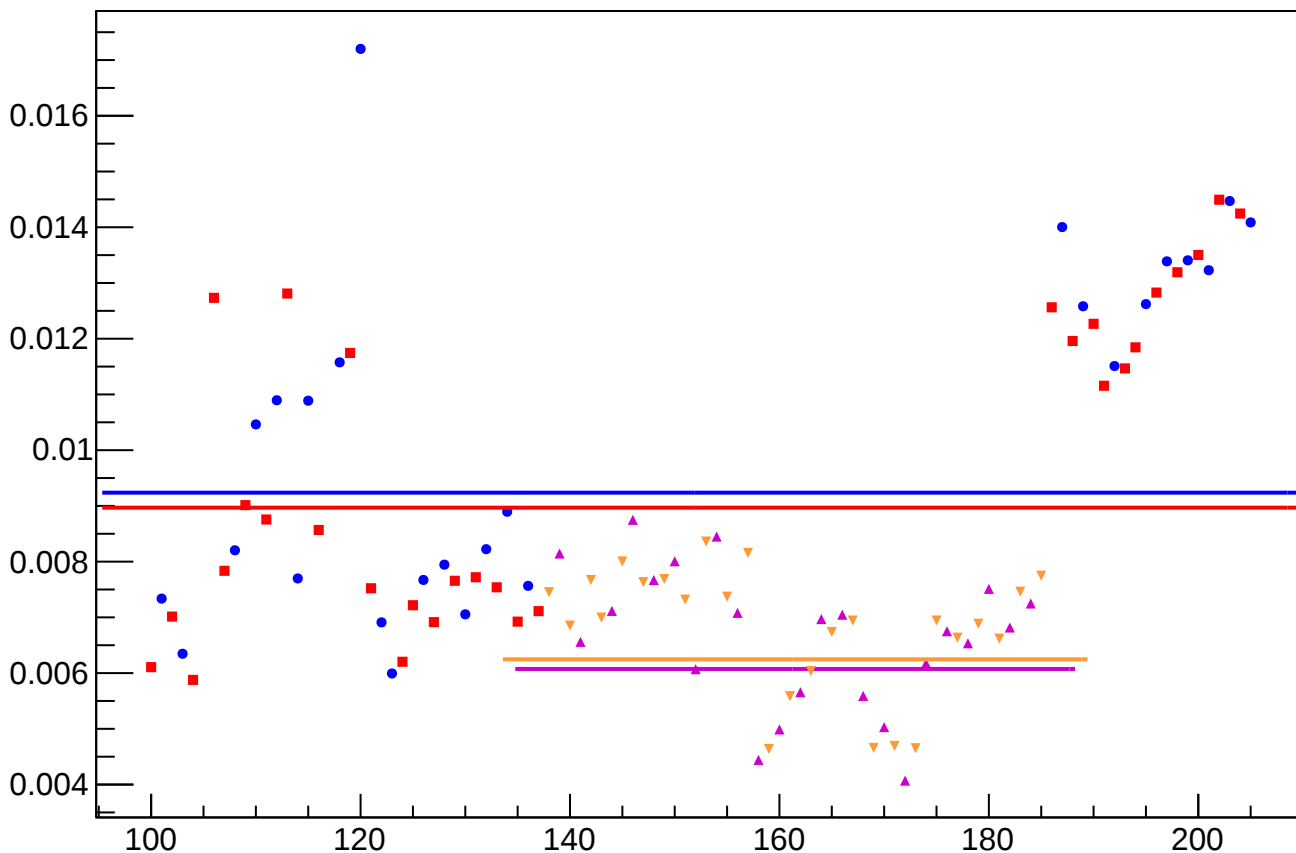
χ^2 /NDF: 78247320954.3/29

Left In: 1.373 $\pm$ 0.000

χ^2 /NDF: 63413151416.3/22

All: 1.078 $\pm$ 0.000 χ^2 /NDF: 574968852661.5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1947981.9/25

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2088612.0/29

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

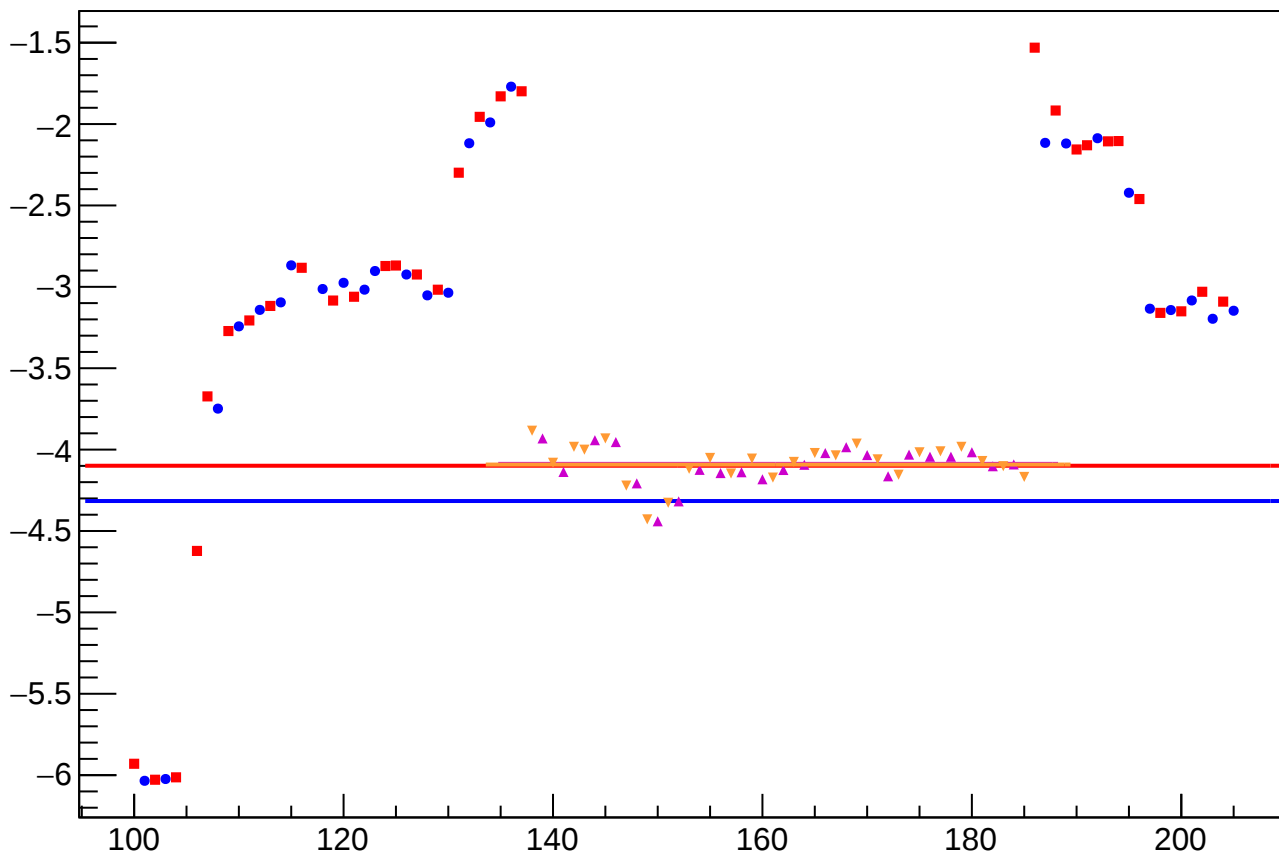
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 4046761.6/55

In: 0.007 $\pm$ 0.000 χ^2 /NDF:5381196.6/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5072632.6/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 10465912.8/103

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.316+/-0.000

χ^2/NDF : 264643198918.0/25

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -4.099+/-0.000

χ^2/NDF : 268079286168.4/29

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.220+/-0.000

χ^2/NDF : 534778363727.5/55

In: -4.306+/-0.000

χ^2/NDF : 264890486608.0/48

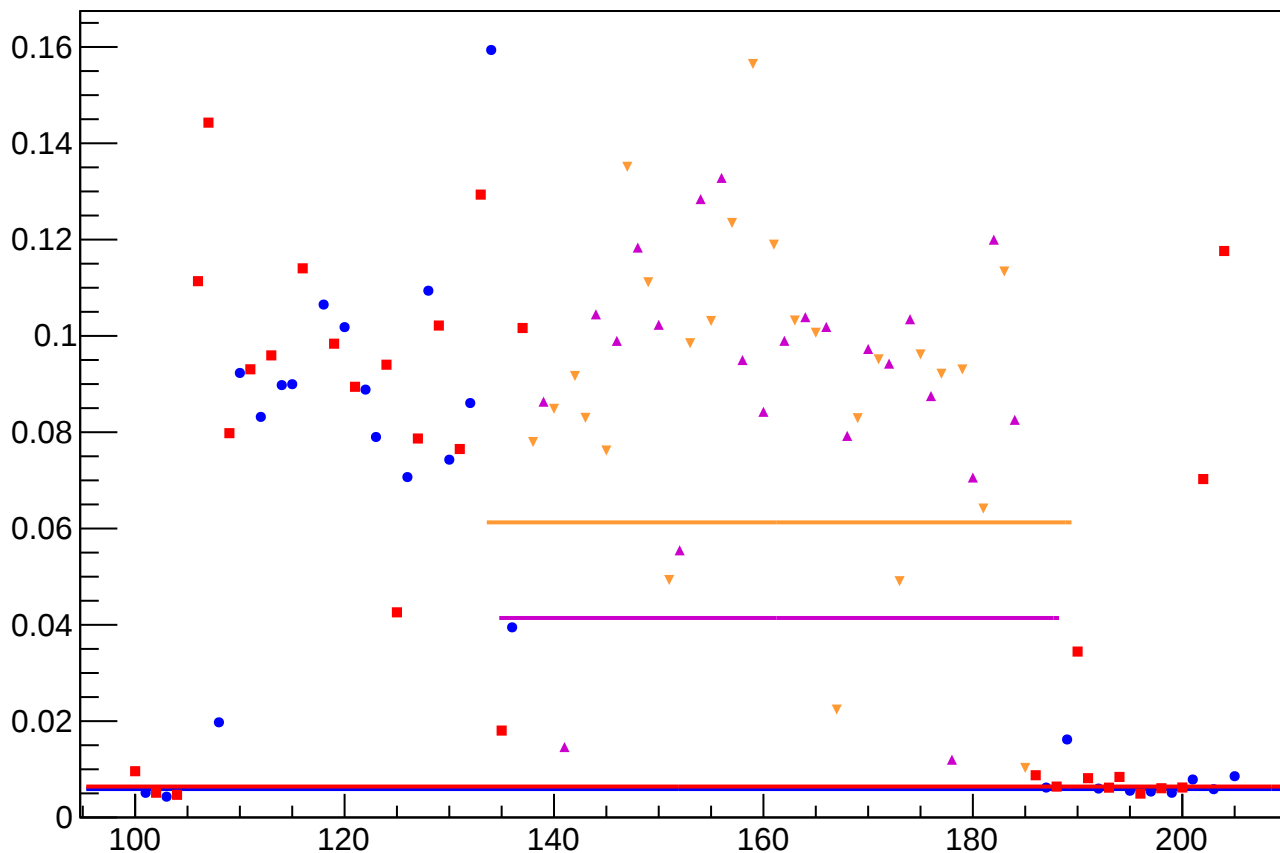
Out: -4.099+/-0.000

χ^2/NDF : 268119245892.7/54

All: -4.215+/-0.000

χ^2/NDF : 534971438292.2

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8066624.7/25

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 10093294.5/29

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

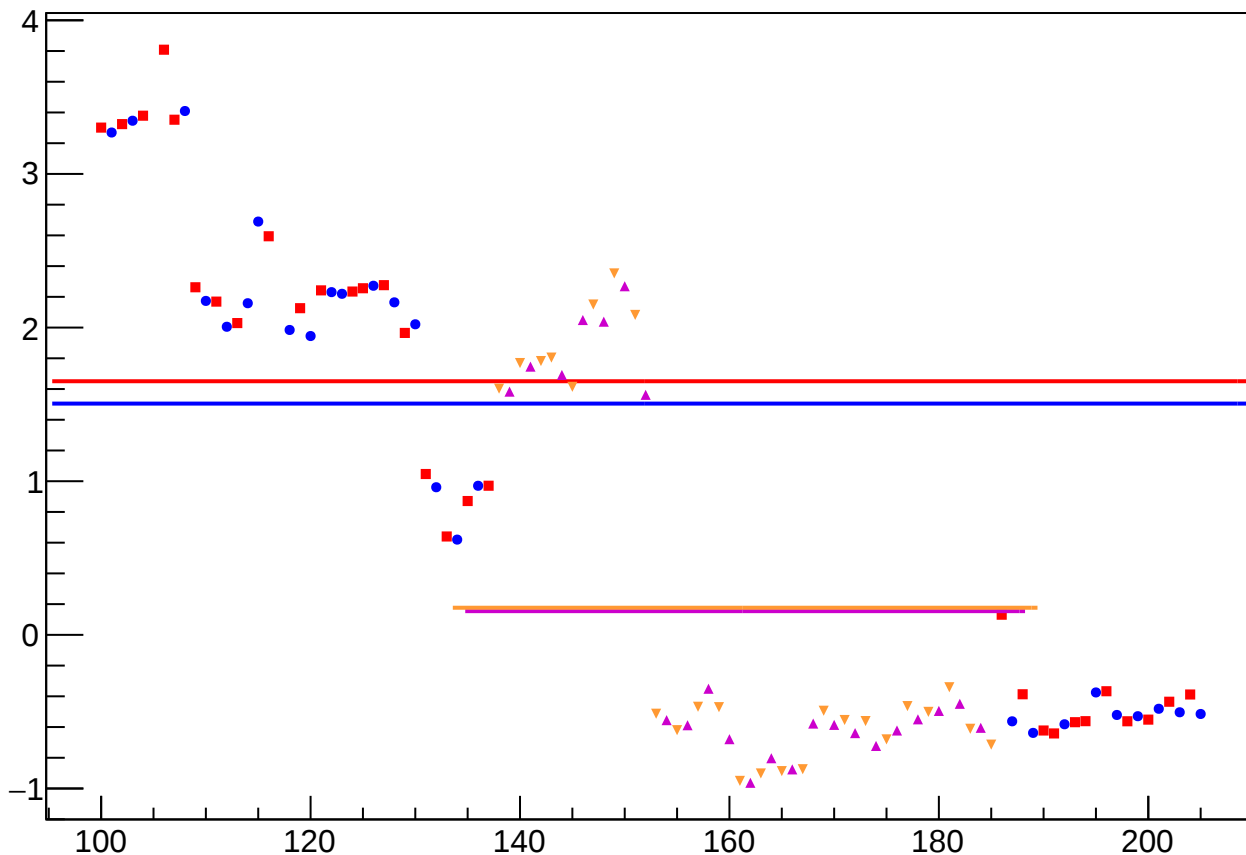
Right: 0.006+/-0.000 χ^2/NDF : 18183713.9/55

In: 0.007+/-0.000 χ^2/NDF :31511584.8/48

Out: 0.008+/-0.000 χ^2/NDF :35573854.7/54

All: 0.008+/-0.000 χ^2/NDF : 67185976.8/103

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.505+/-0.000 χ^2/NDF : 193046688849.5/25

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.651+/-0.000 χ^2/NDF : 166207181304.5/29

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

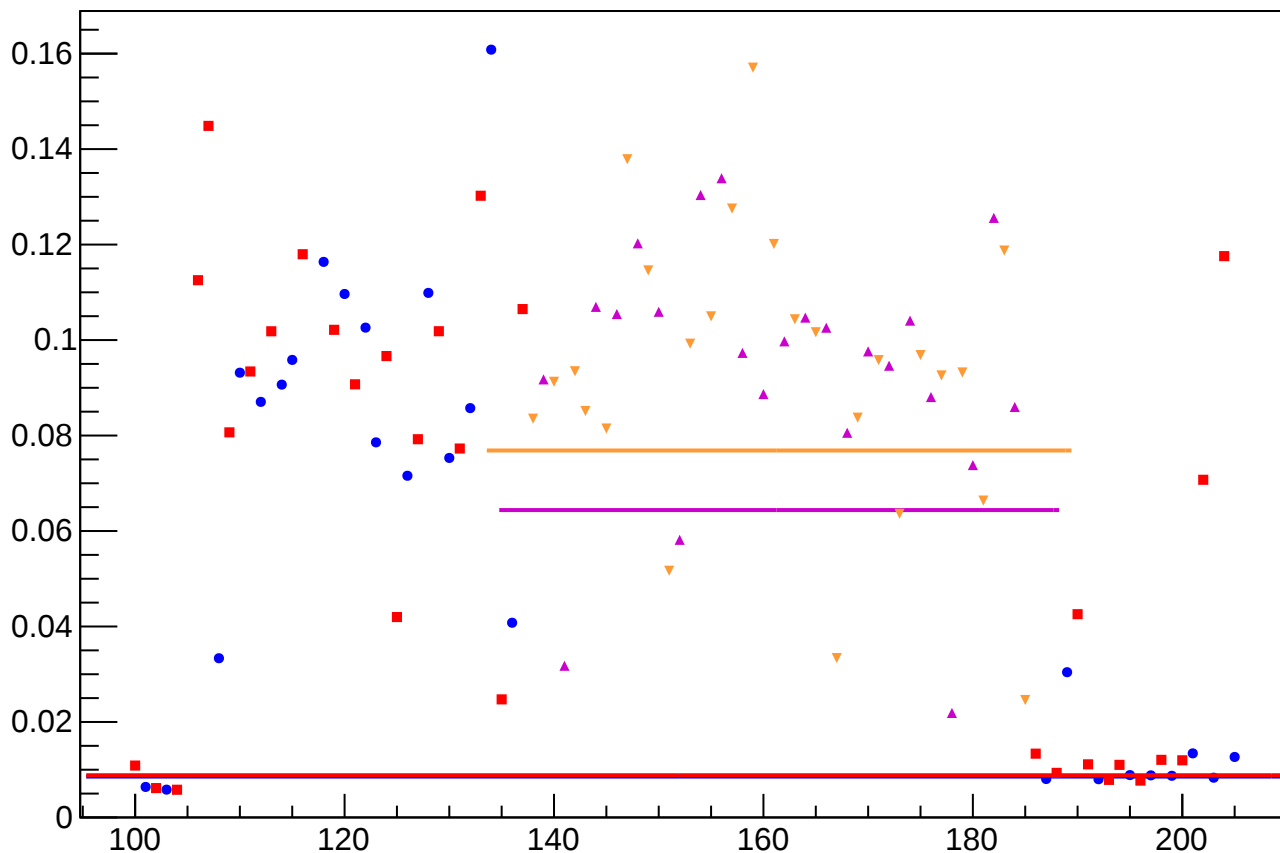
Right: 1.573+/-0.000 χ^2/NDF : 359785952918.7/55

In: 1.444+/-0.000 χ^2/NDF : 200702556374.5/48

Out: 1.583+/-0.000 χ^2/NDF : 174183102758.8/54

All: 1.509+/-0.000 χ^2/NDF : 375398617875.3

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8027447.7/25

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 9936287.5/29

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

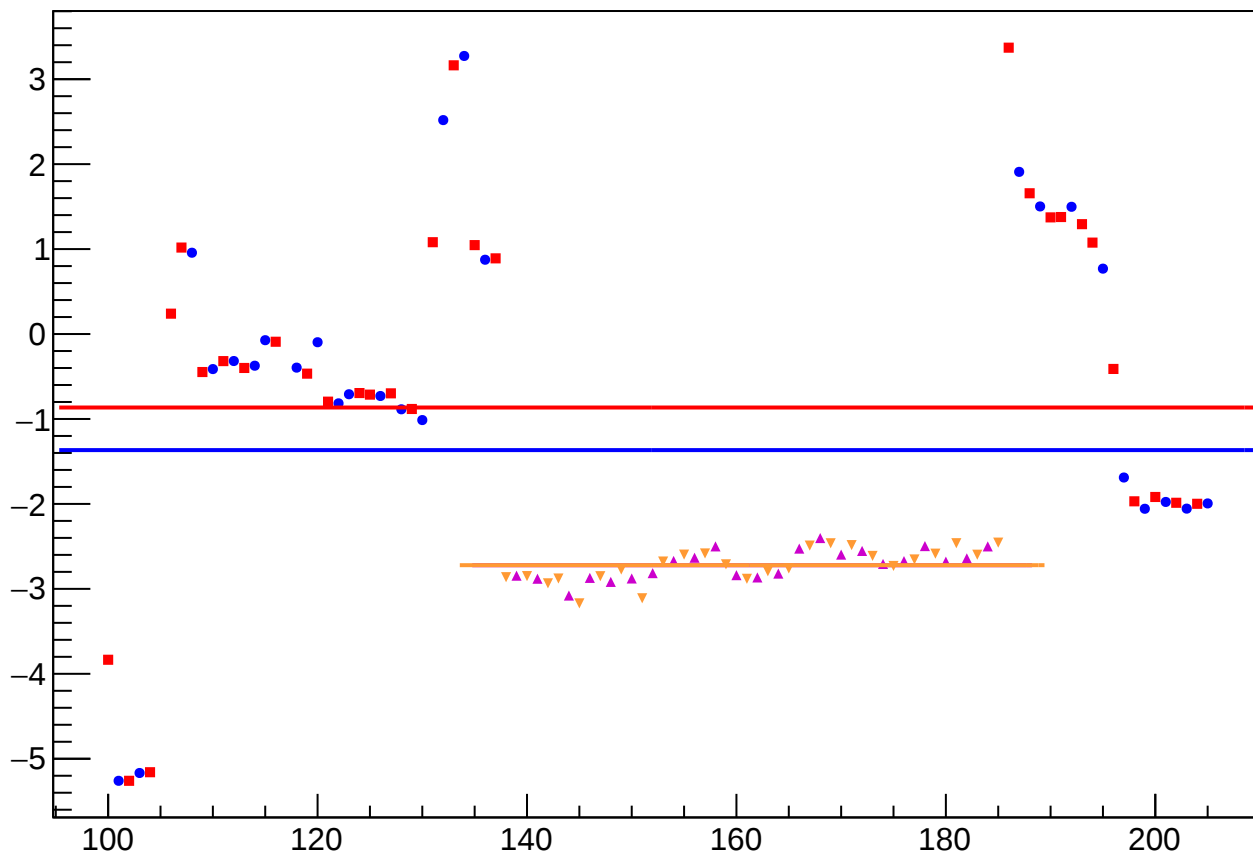
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 17967471.3/55

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30356271.1/48

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34174097.0/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 64567997.7/103

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.367+/-0.000 χ^2/NDF : 204815924205.5/25

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.865+/-0.000 χ^2/NDF : 233420059320.1/29

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

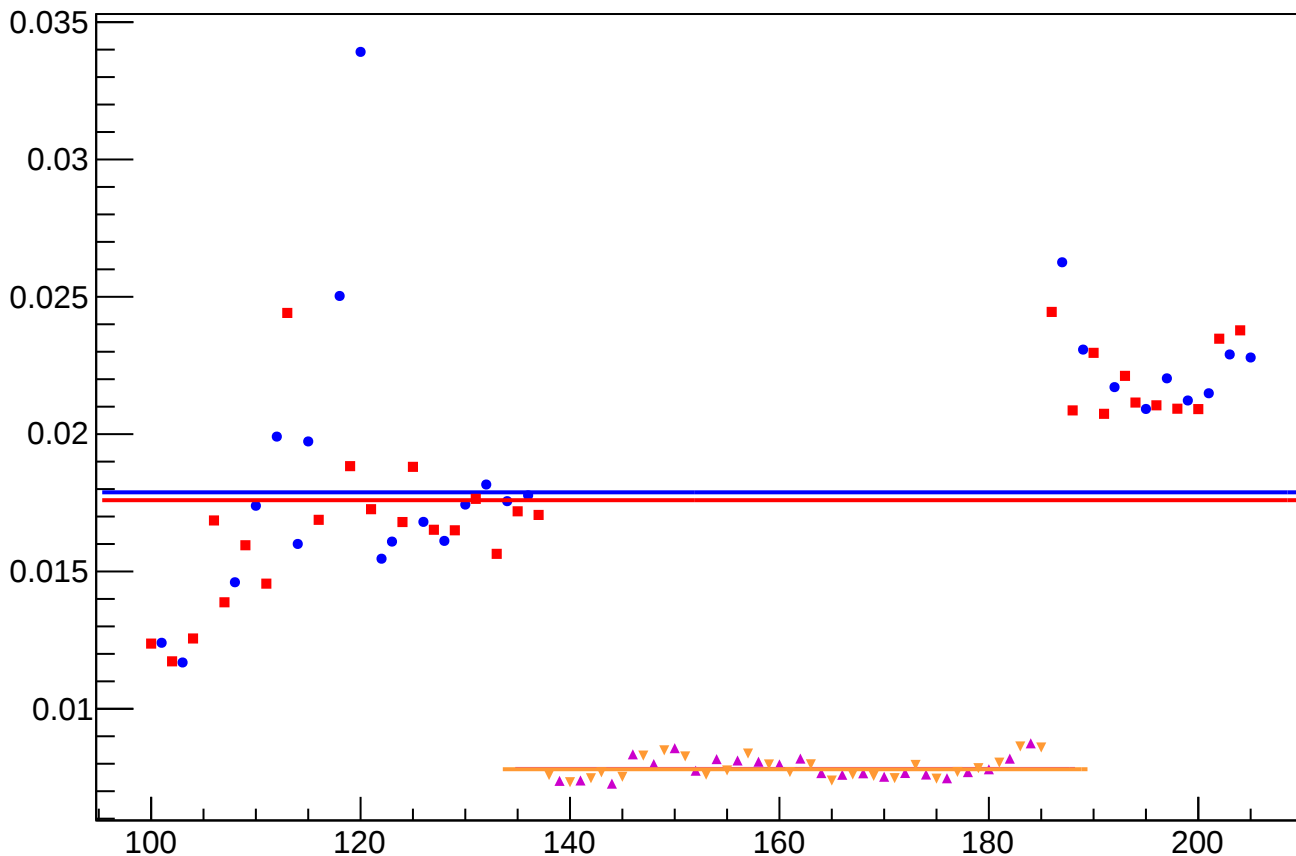
Right: -1.098+/-0.000 χ^2/NDF : 443022129005.3/55

In: -2.566+/-0.000 χ^2/NDF : 270797963143.2/48

Out: -2.492+/-0.000 χ^2/NDF : 367489047990.1/54

All: -2.528+/-0.000 χ^2/NDF : 639159255155.2

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1250935.4/25

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1145397.5/29

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

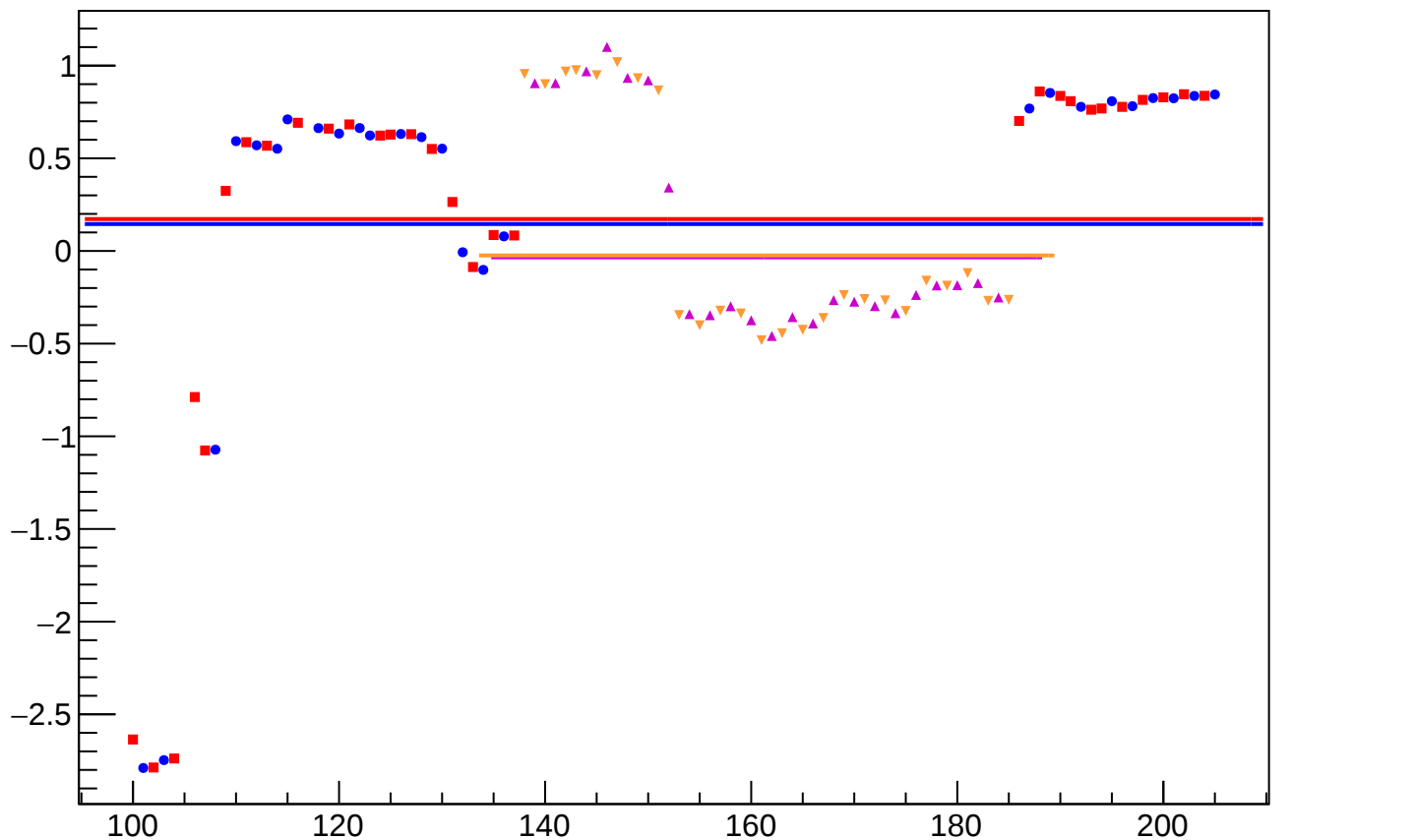
Right: 0.018+/-0.000 χ^2/NDF : 2399461.7/55

In: 0.009+/-0.000 χ^2/NDF : 7704756.3/48

Out: 0.009+/-0.000 χ^2/NDF : 8104204.8/54

All: 0.009+/-0.000 χ^2/NDF : 15809469.2/103

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.145+/-0.000

χ^2/NDF : 853988843745.7/25

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.160+/-0.000

χ^2/NDF : 1771044826322.8/55

Right Out: 0.172+/-0.000

χ^2/NDF : 916778456351.0/29

In: 0.075+/-0.000

χ^2/NDF : 977101577859.3/48

Out: 0.100+/-0.000

χ^2/NDF : 1063962599829.6/54

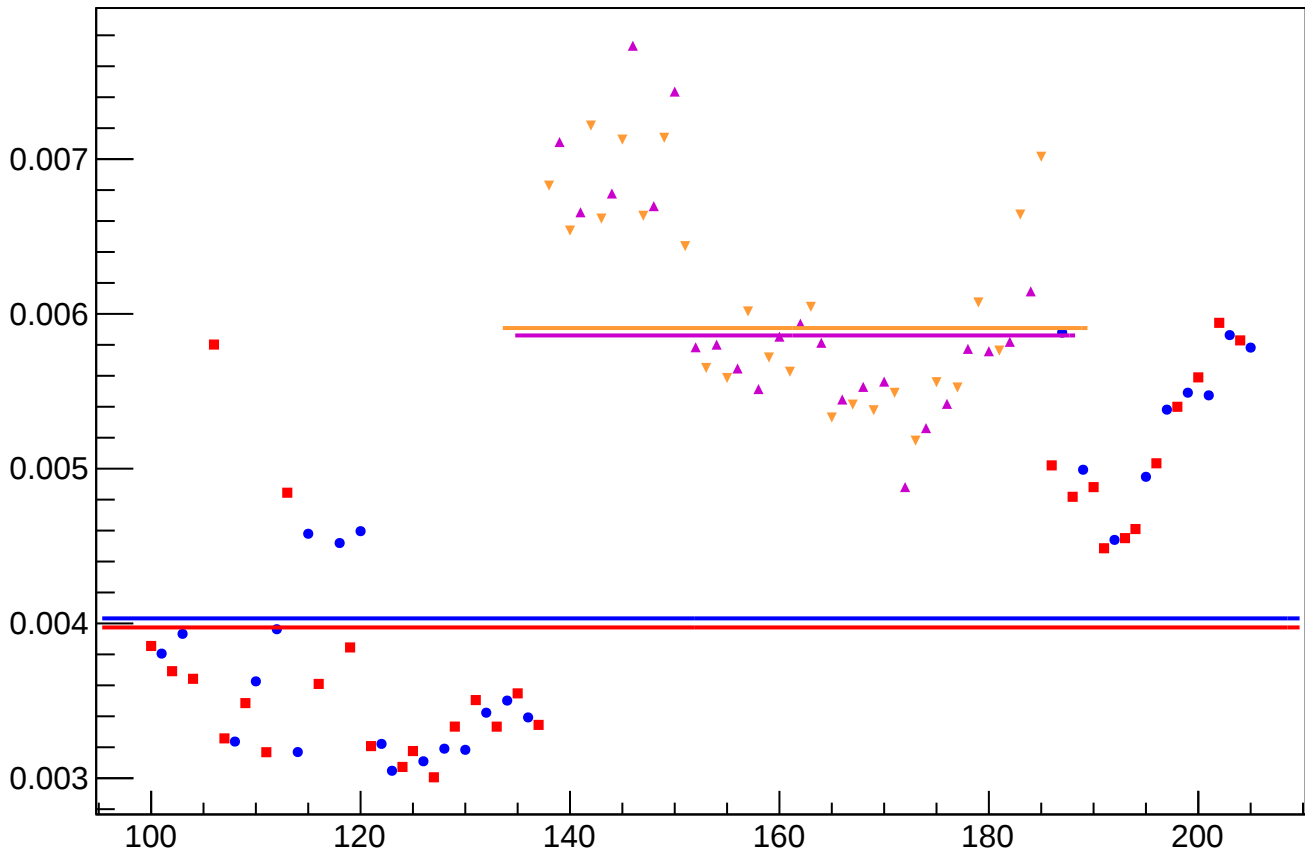
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.088+/-0.000

χ^2/NDF : 2041429191393.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1189751.3/25

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1231625.8/29

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

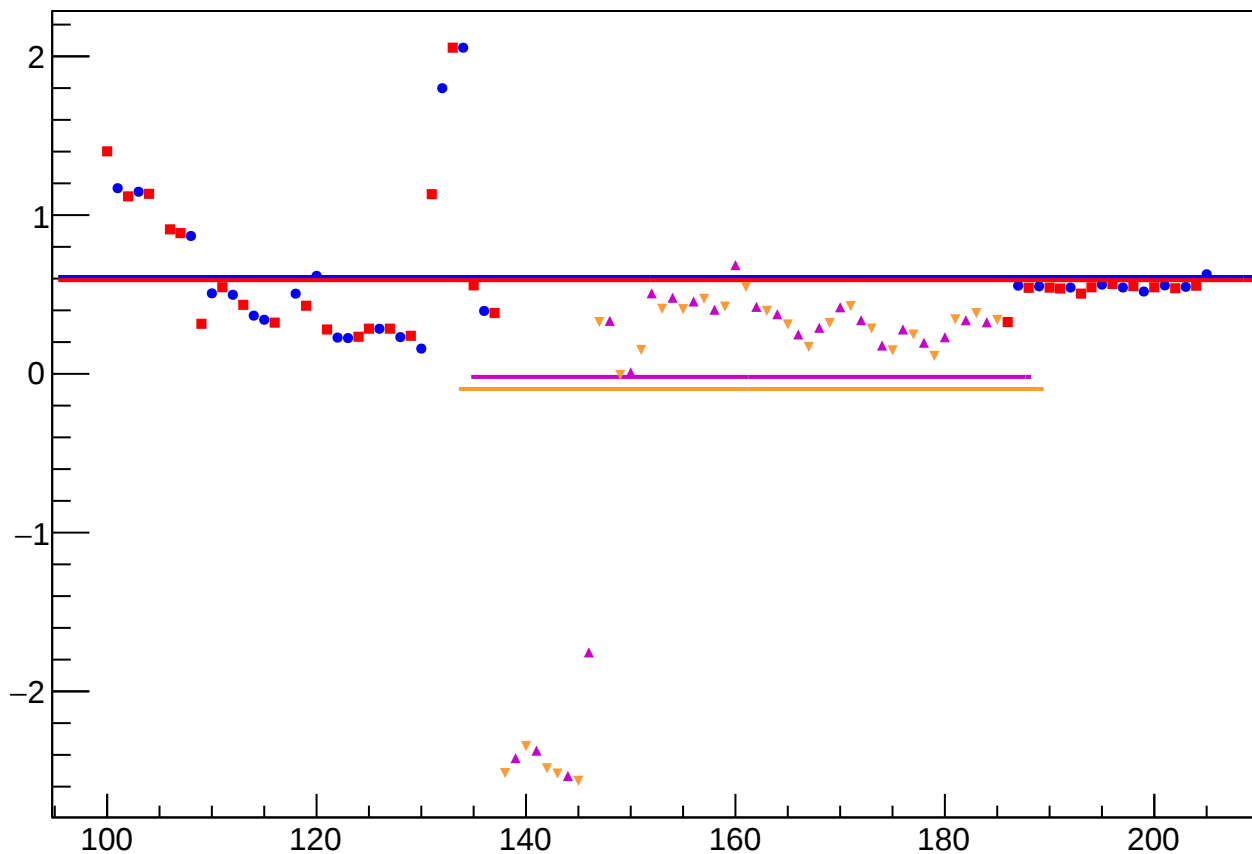
Right: 0.004+/-0.000 χ^2/NDF : 2424024.8/55

In: 0.005+/-0.000 χ^2/NDF :3454545.7/48

Out: 0.005+/-0.000 χ^2/NDF :3823383.4/54

All: 0.005+/-0.000 χ^2/NDF : 7281738.5/103

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.610 $\pm$ 0.000

χ^2 /NDF: 40461686410.1/25

Left: -0.058 $\pm$ 0.000

χ^2 /NDF: 924153662333.7/47

Right: 0.599 $\pm$ 0.000

χ^2 /NDF: 86414717404.2/55

Left Out: -0.095 $\pm$ 0.000

χ^2 /NDF: 505606573631.9/24

In: 0.350 $\pm$ 0.000

χ^2 /NDF: 572168475008.9/48

Right Out: 0.590 $\pm$ 0.000

χ^2 /NDF: 45803805629.9/29

Out: 0.322 $\pm$ 0.000

χ^2 /NDF: 698462797516.0/54

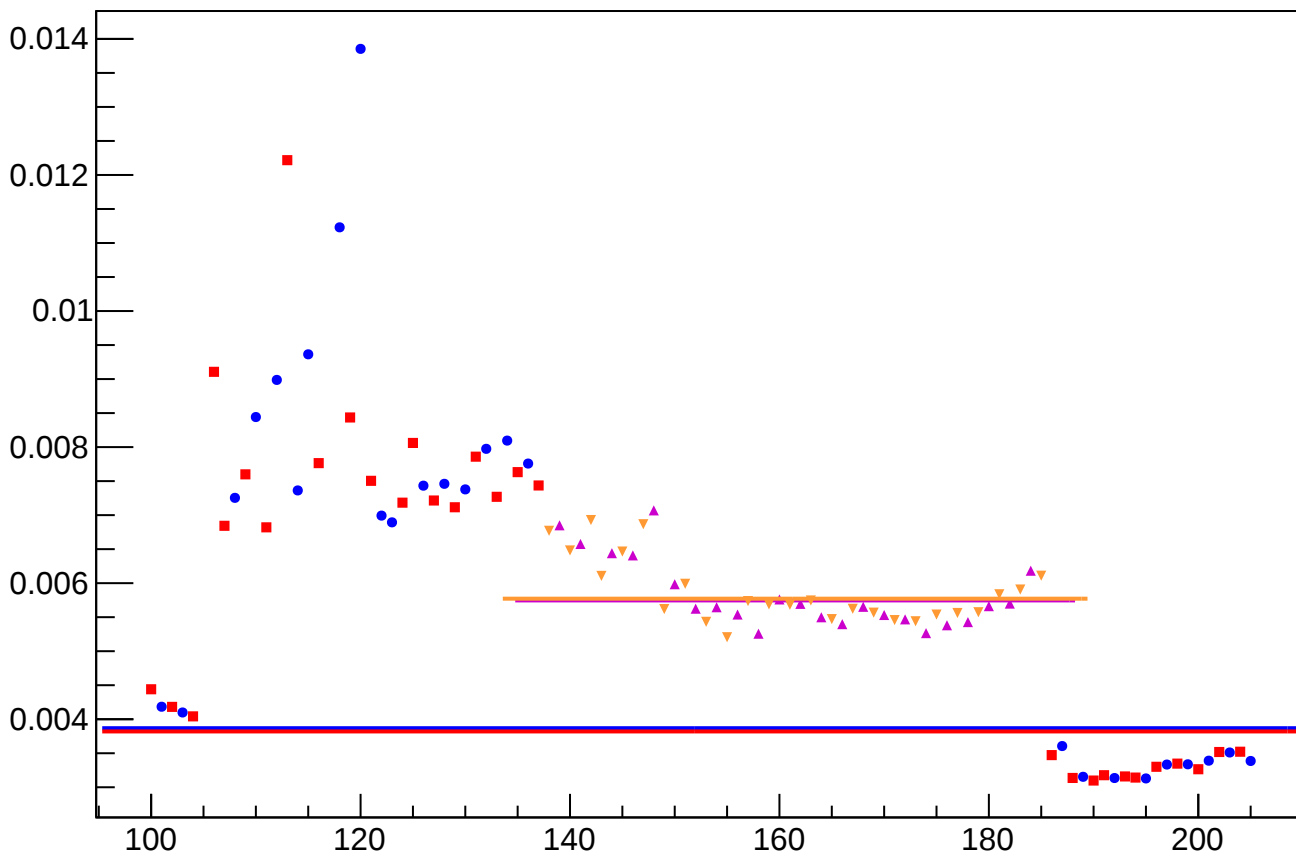
Left In: -0.019 $\pm$ 0.000

χ^2 /NDF: 417104863944.5/22

All: 0.335 $\pm$ 0.000

χ^2 /NDF: 1271122933245.0/100

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3091449.0/25

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3129545.7/29

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

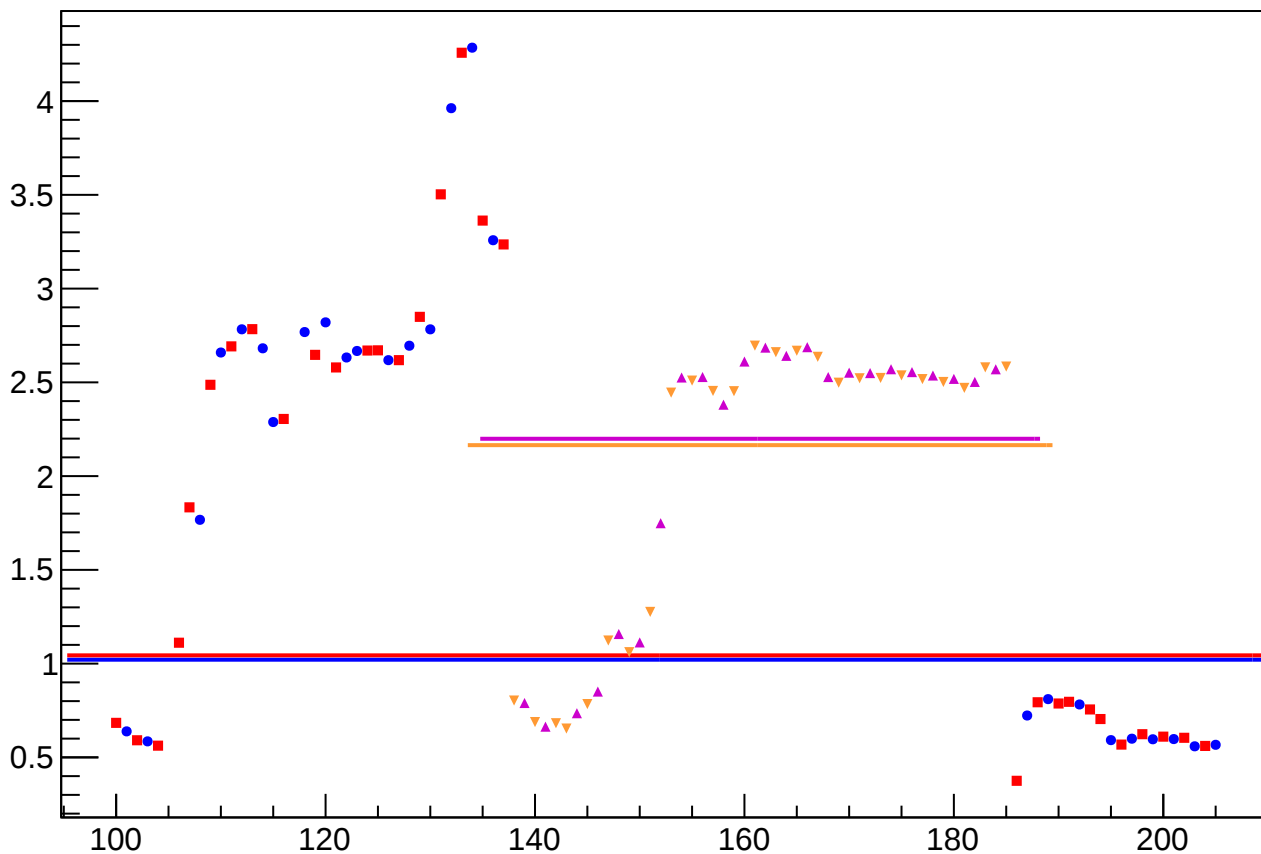
Right: 0.004+/-0.000 χ^2/NDF : 6222688.3/55

In: 0.005+/-0.000 χ^2/NDF :5337089.5/48

Out: 0.005+/-0.000 χ^2/NDF :5694317.1/54

All: 0.005+/-0.000 χ^2/NDF : 11035915.0/103

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.021+/-0.000 χ^2/NDF : 287406405976.5/25

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.044+/-0.000 χ^2/NDF : 333900533721.5/29

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

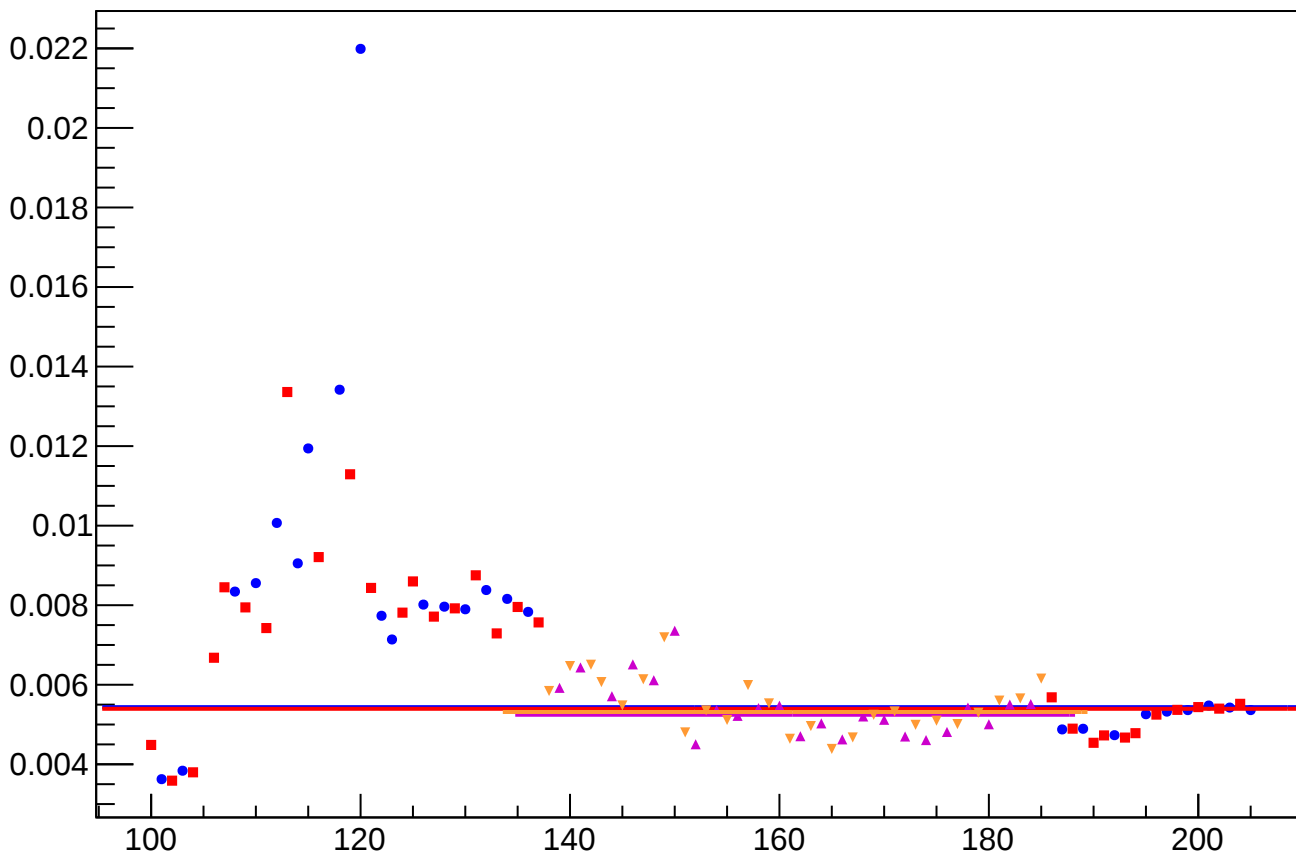
Right: 1.033+/-0.000 χ^2/NDF : 621411888978.0/55

In: 1.739+/-0.000 χ^2/NDF : 851192253973.3/48

Out: 1.700+/-0.000 χ^2/NDF : 932647907101.5/54

All: 1.719+/-0.000 χ^2/NDF : 1784546205157.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2005097.5/25

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1876854.0/29

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

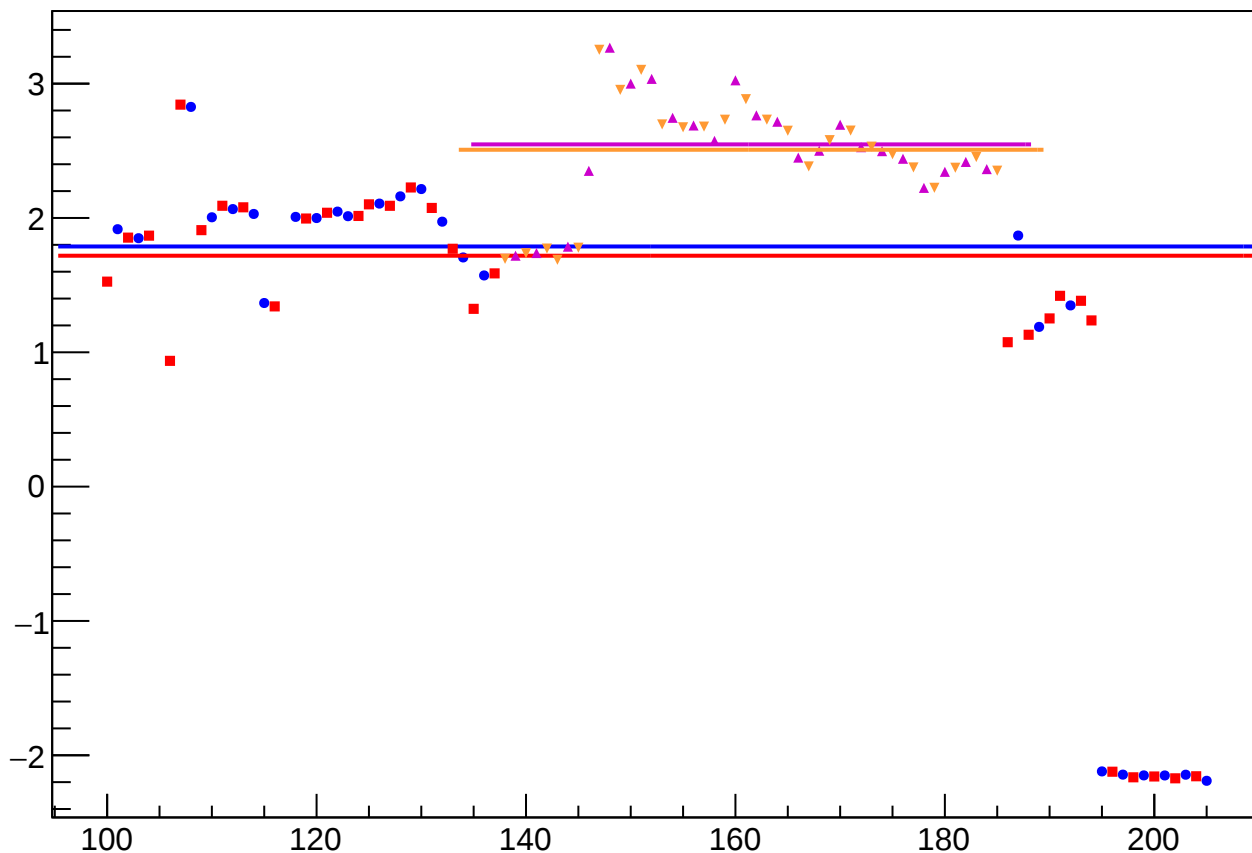
Right: 0.005+/-0.000 χ^2/NDF : 3882610.3/55

In: 0.005+/-0.000 χ^2/NDF :2447318.6/48

Out: 0.005+/-0.000 χ^2/NDF :2278796.7/54

All: 0.005+/-0.000 χ^2/NDF : 4726891.6/103

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.788+/-0.000 χ^2/NDF : 117661532958.7/25

Left Out: 2.508+/-0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.719+/-0.000 χ^2/NDF : 106891460206.7/29

Left In: 2.548+/-0.000 χ^2/NDF : 45350336058.7/22

Left: 2.527+/-0.000 χ^2/NDF : 97963993742.3/47

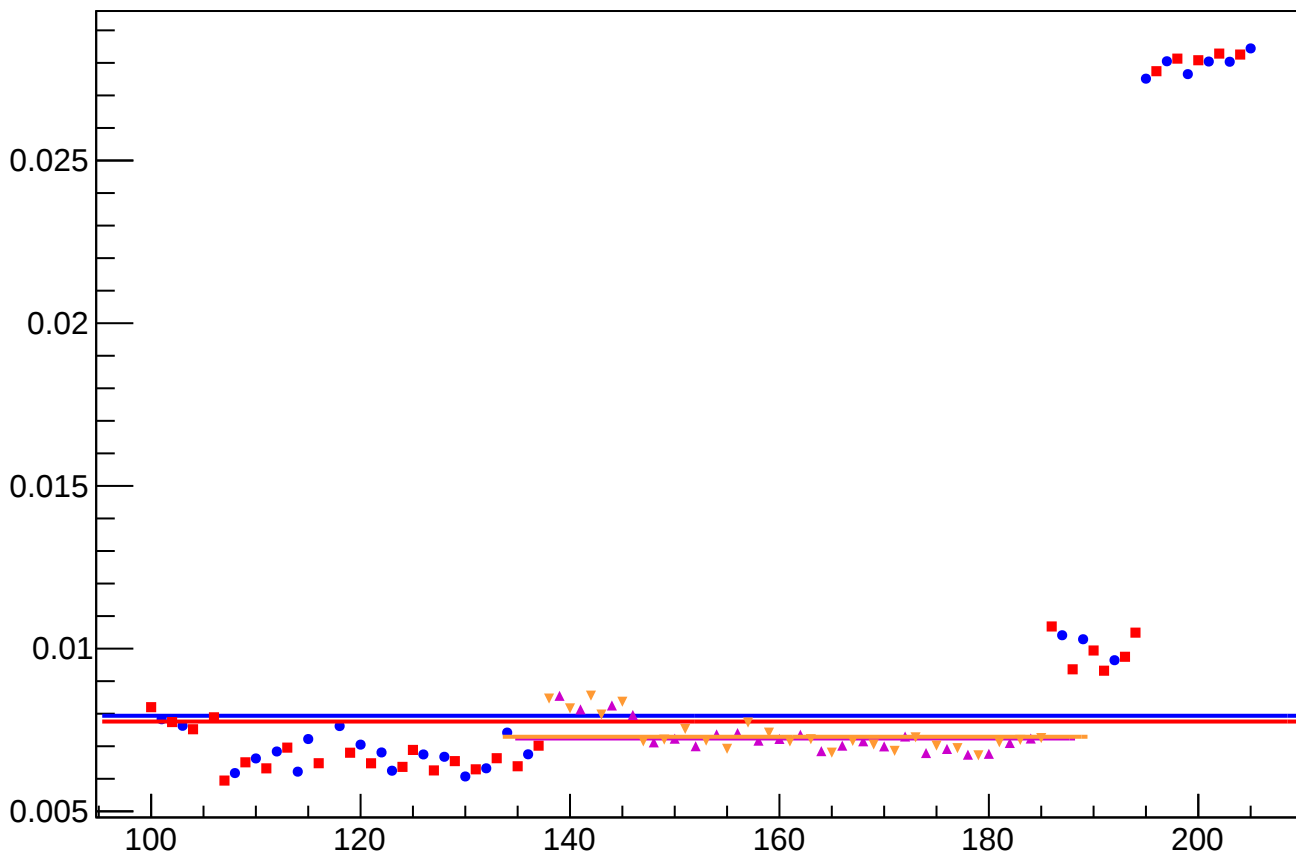
Right: 1.750+/-0.000 χ^2/NDF : 224961429461.9/55

In: 2.295+/-0.000 χ^2/NDF : 223815840509.9/48

Out: 2.219+/-0.000 χ^2/NDF : 234139117910.7/54

All: 2.255+/-0.000 χ^2/NDF : 459407569727.4

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 5445643.4/25

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 4585022.8/29

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

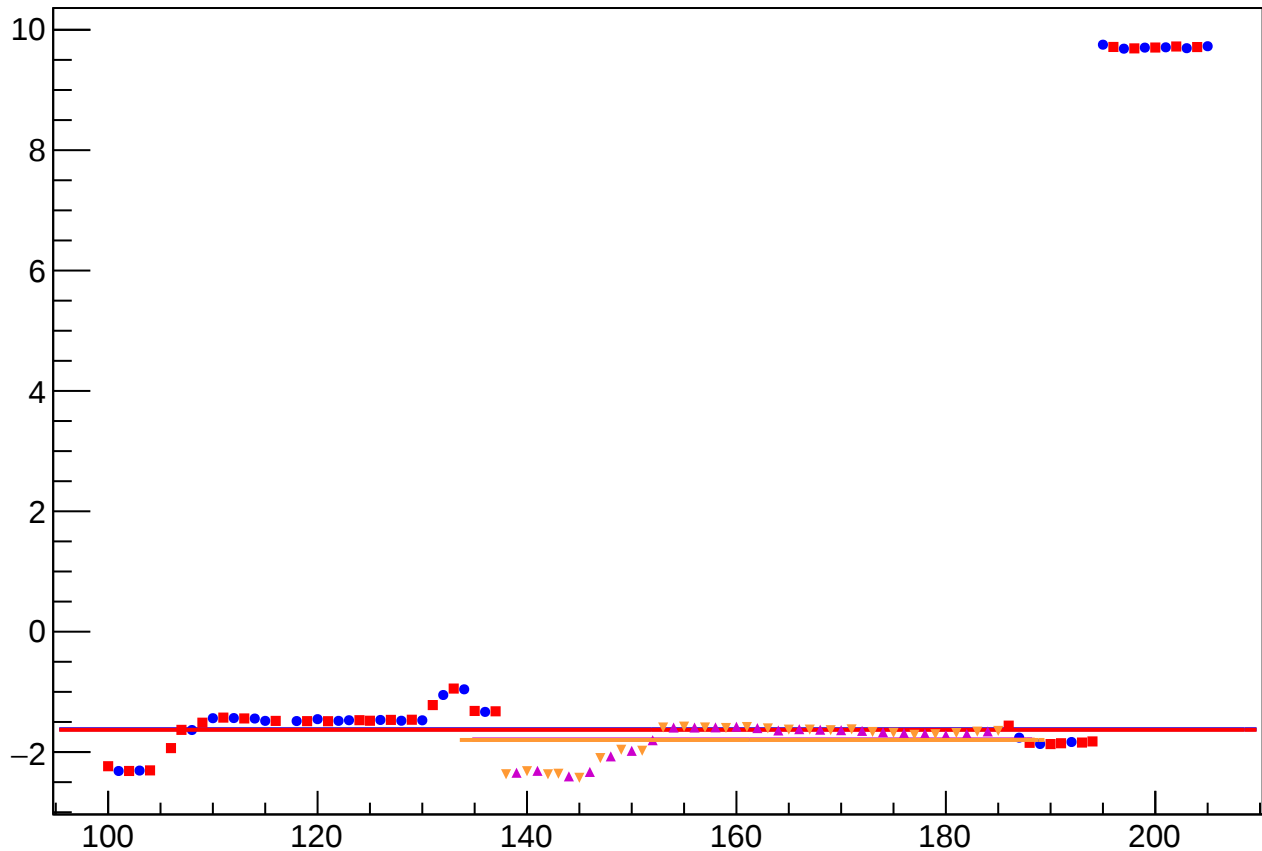
Right: 0.008+/-0.000 χ^2/NDF : 10036098.1/55

In: 0.007+/-0.000 χ^2/NDF :5673657.1/48

Out: 0.007+/-0.000 χ^2/NDF :4778447.7/54

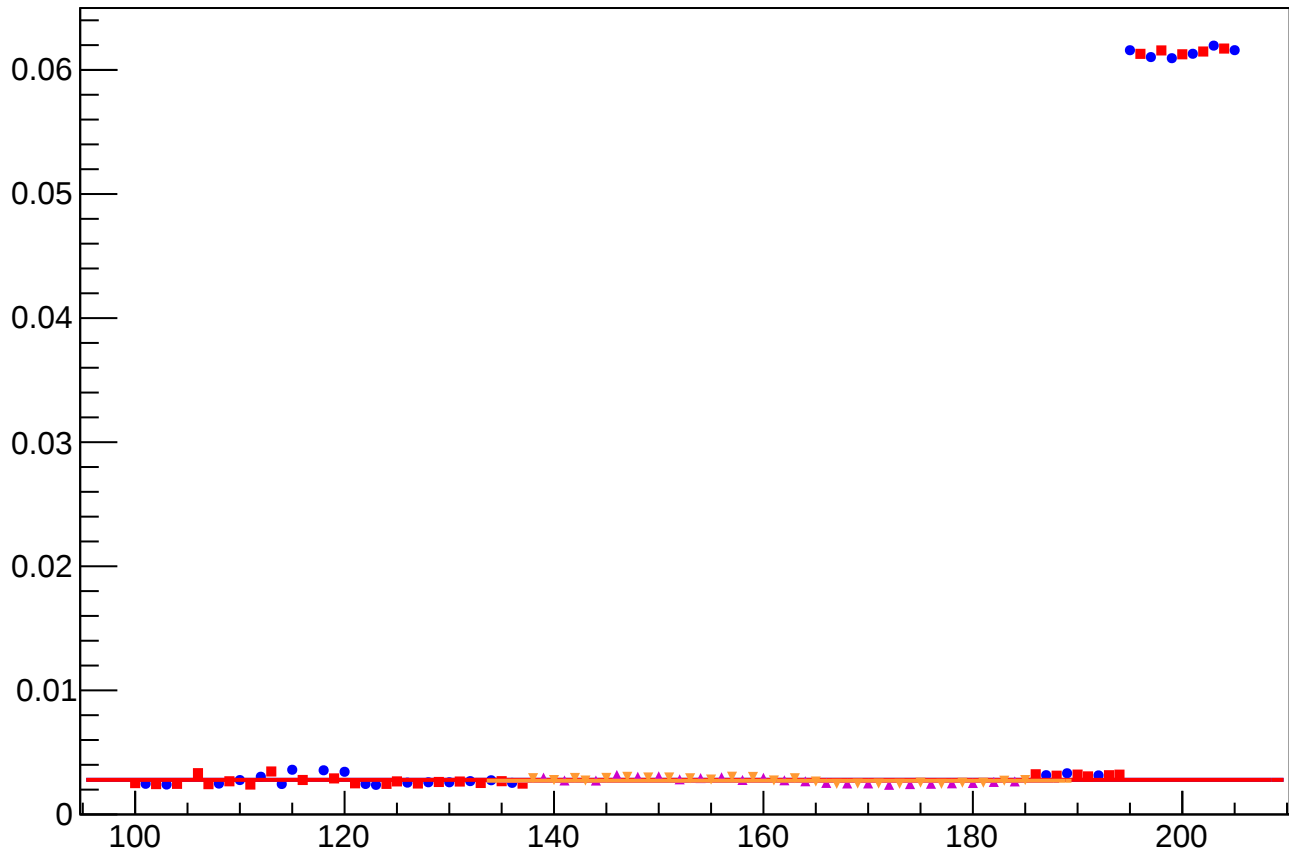
All: 0.007+/-0.000 χ^2/NDF : 10452130.9/103

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.621+/-0.000	χ^2/NDF : 310405455721.6/25	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.626+/-0.000	χ^2/NDF : 594019437956.1/55
Right Out: -1.631+/-0.000	χ^2/NDF : 283560768370.5/29	In: -1.737+/-0.000	χ^2/NDF : 490534085581.5/48
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.739+/-0.000	χ^2/NDF : 492602148220.4/54
		All: -1.738+/-0.000	χ^2/NDF : 983147725123.7

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 8966241.1/25

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6940055.6/29

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

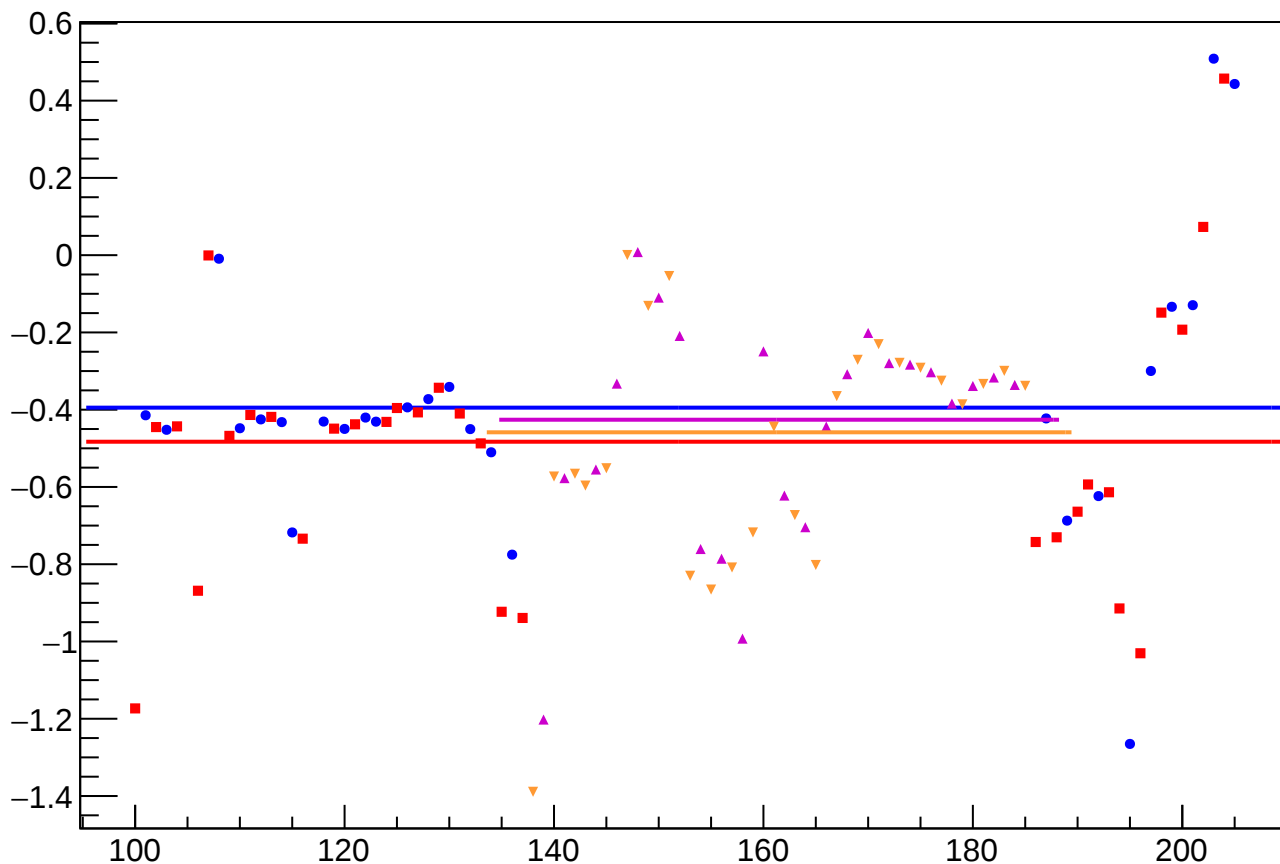
Right: 0.003+/-0.000 χ^2/NDF : 15906307.3/55

In: 0.003+/-0.000 χ^2/NDF :9198258.6/48

Out: 0.003+/-0.000 χ^2/NDF :7147952.6/54

All: 0.003+/-0.000 χ^2/NDF : 16346852.2/103

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.395+/-0.000

χ^2/NDF : 7818128892.0/25

Left: -0.443+/-0.000

χ^2/NDF : 18401926676.9/47

Left Out: -0.459+/-0.000

χ^2/NDF : 9916462814.9/24

Right: -0.442+/-0.000

χ^2/NDF : 15180686432.3/55

Right Out: -0.483+/-0.000

χ^2/NDF : 7073881359.5/29

In: -0.414+/-0.000

χ^2/NDF : 16284531170.7/48

Out: -0.468+/-0.000

χ^2/NDF : 17018629849.7/54

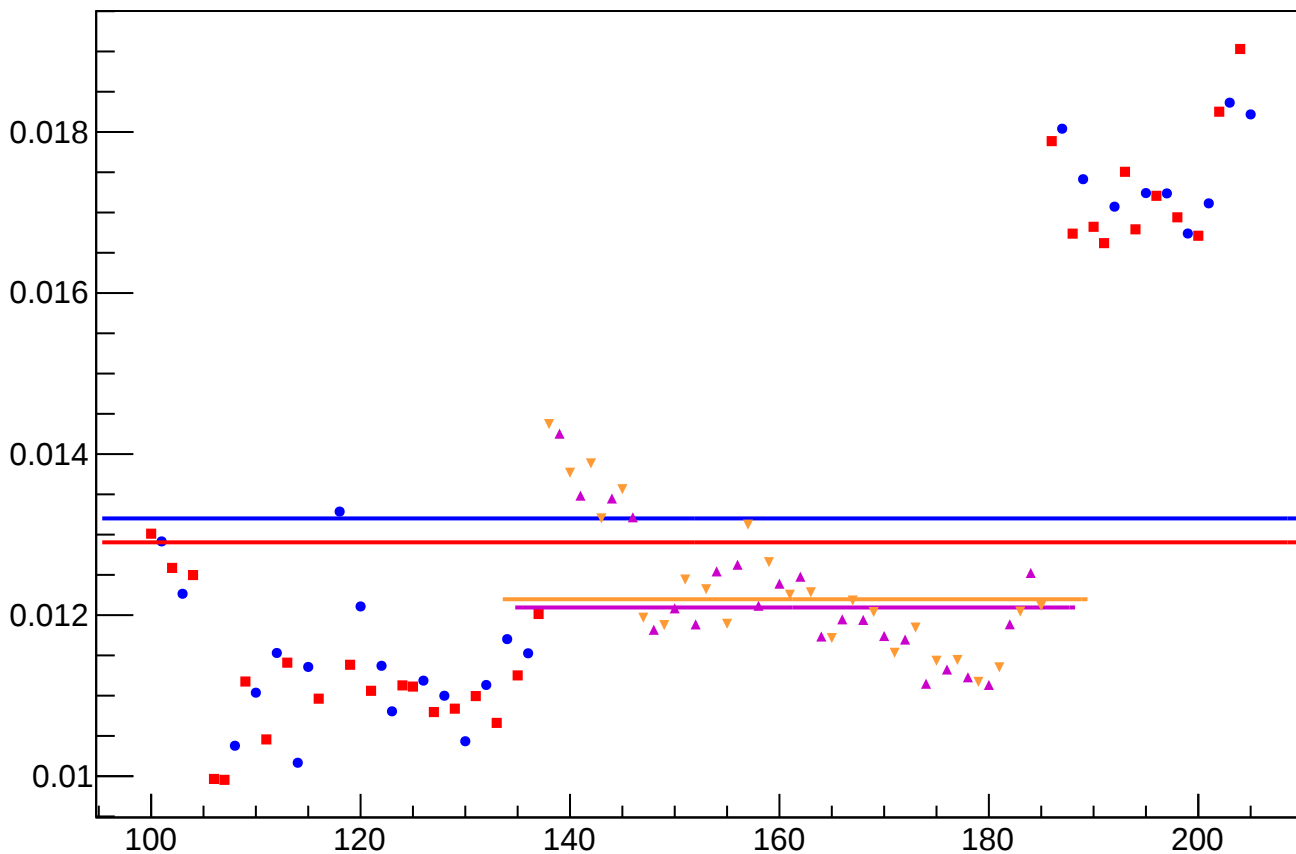
Left In: -0.426+/-0.000

χ^2/NDF : 8424222576.0/22

All: -0.442+/-0.000

χ^2/NDF : 33582672831.7/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1090458.4/25

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1318877.8/29

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

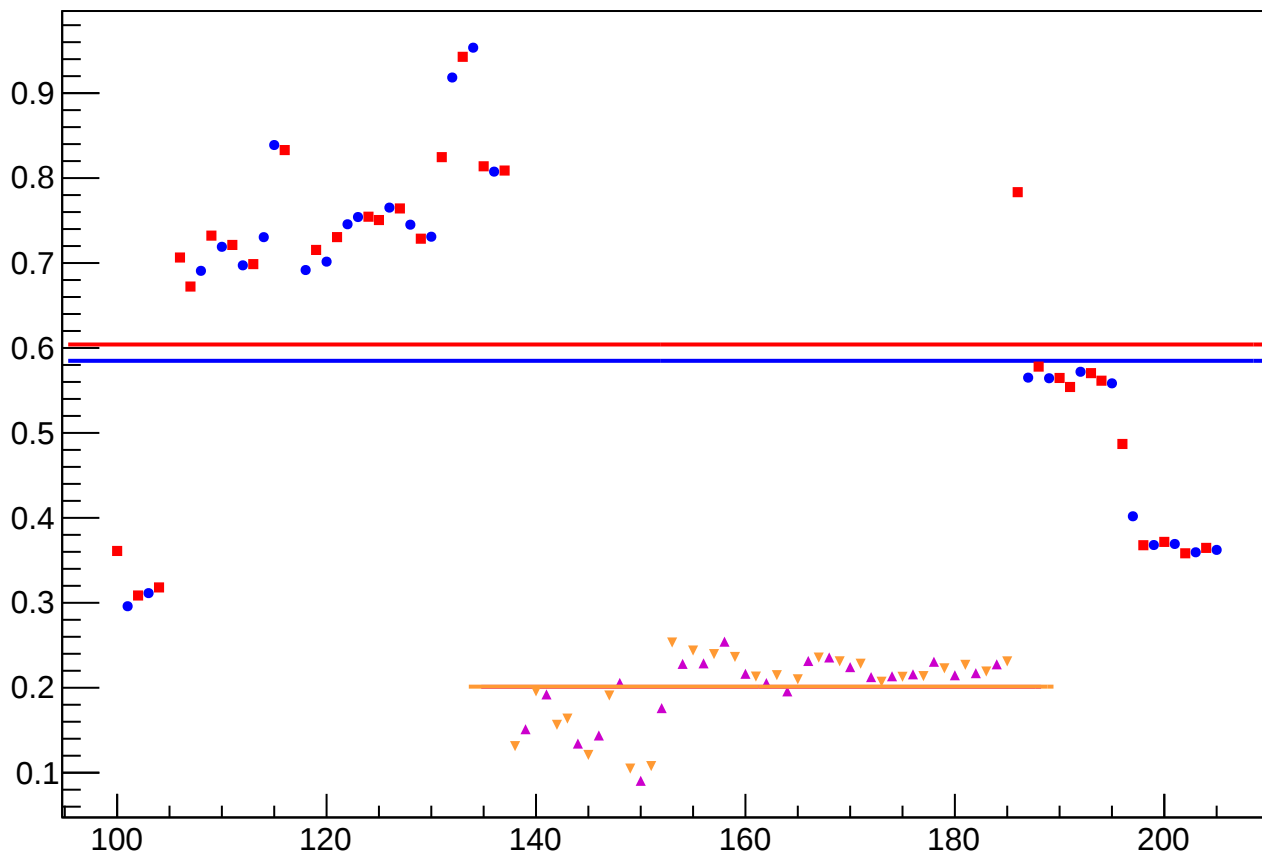
Right: 0.013+/-0.000 χ^2/NDF : 2415885.1/55

In: 0.013+/-0.000 χ^2/NDF :1323231.8/48

Out: 0.012+/-0.000 χ^2/NDF :1508204.8/54

All: 0.012+/-0.000 χ^2/NDF : 2831652.7/103

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.585 $\pm$ 0.000 χ^2 /NDF: 66322843429.5/25

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.604 $\pm$ 0.000 χ^2 /NDF: 62734371467.9/29

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12762673178.0/47

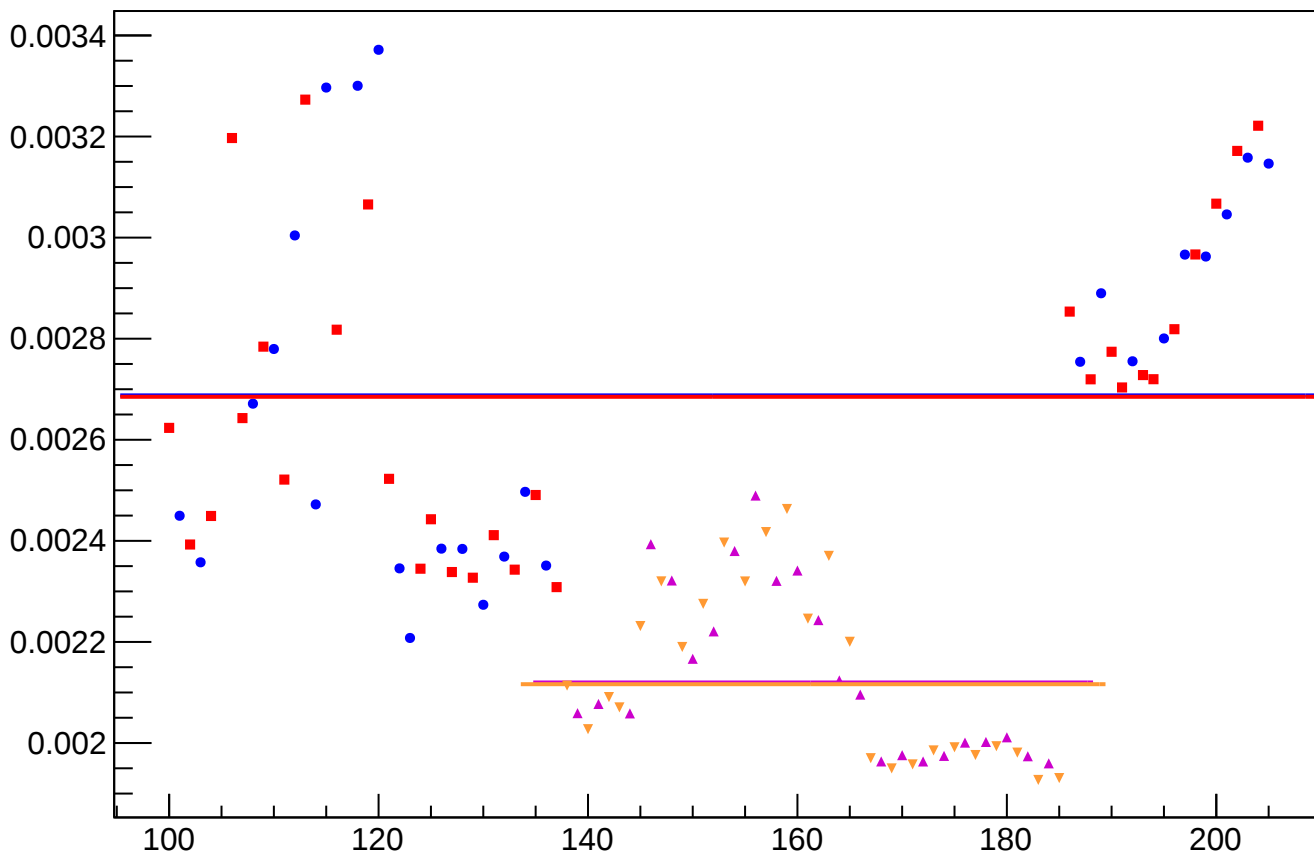
Right: 0.595 $\pm$ 0.000 χ^2 /NDF: 129388847812.5/55

In: 0.320 $\pm$ 0.000 χ^2 /NDF: 246568521217.8/48

Out: 0.329 $\pm$ 0.000 χ^2 /NDF: 278020336205.4/54

All: 0.325 $\pm$ 0.000 χ^2 /NDF: 524800081252.1

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 364978.7/25

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 288201.6/29

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

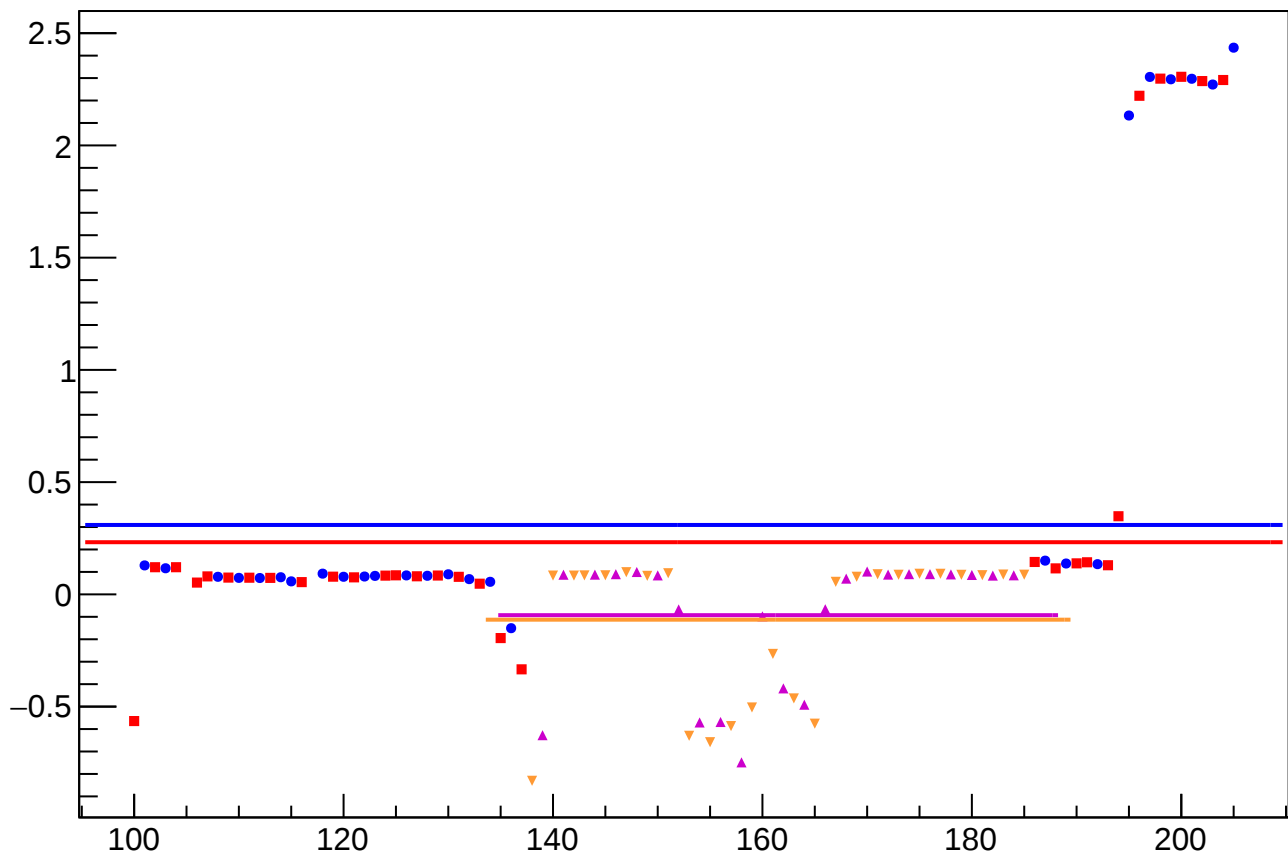
Right: 0.003+/-0.000 χ^2/NDF : 653194.0/55

In: 0.002+/-0.000 χ^2/NDF :1318891.8/48

Out: 0.002+/-0.000 χ^2/NDF :1342702.6/54

All: 0.002+/-0.000 χ^2/NDF : 2661594.7/103

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.309+/-0.000

χ^2/NDF : 41047092747.9/25

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.267+/-0.000

χ^2/NDF : 75843728553.5/55

Right Out: 0.232+/-0.000

χ^2/NDF : 34532361999.7/29

In: 0.057+/-0.000

χ^2/NDF : 60451340905.1/48

Out: 0.026+/-0.000

χ^2/NDF : 55158183023.0/54

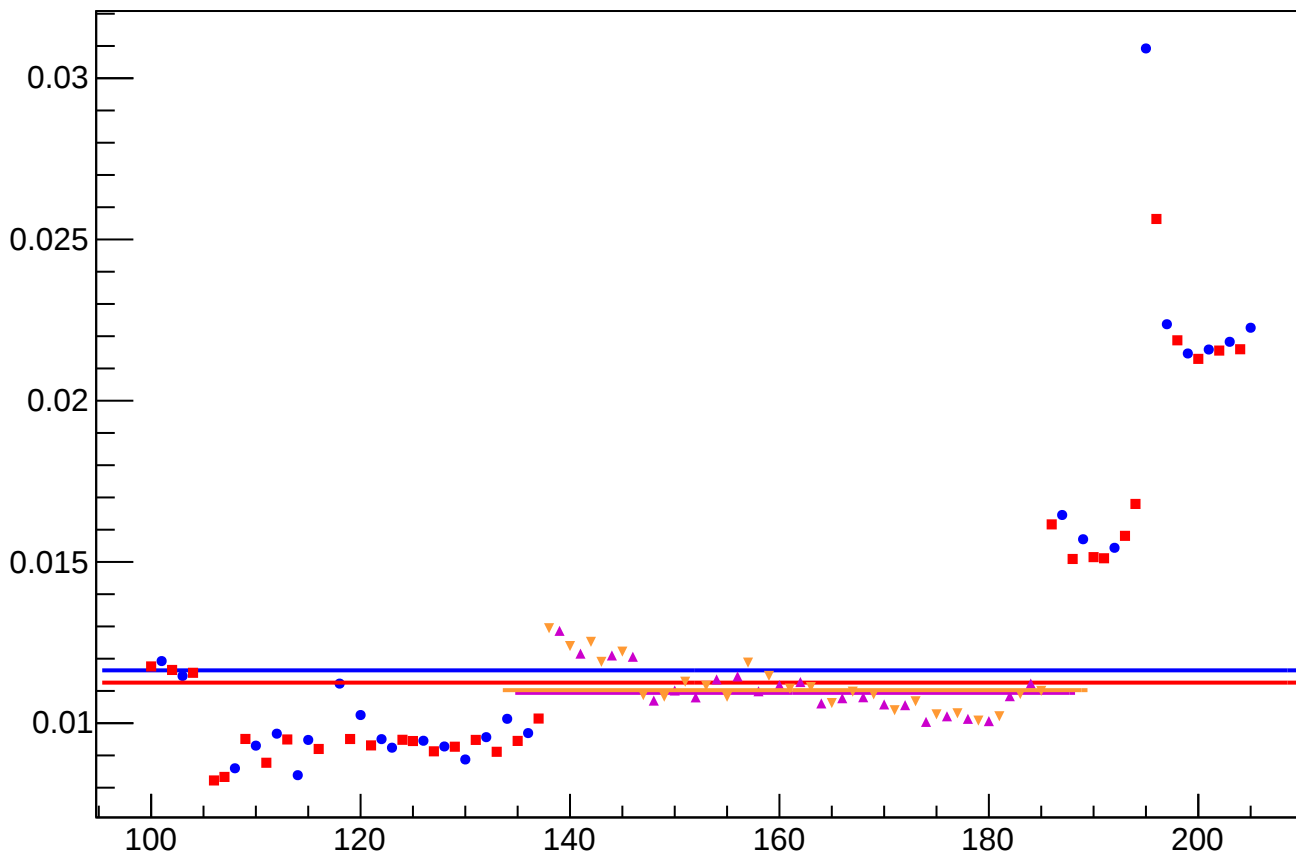
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.041+/-0.000

χ^2/NDF : 115718615966.6

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 3154876.2/25

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 2961050.8/29

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

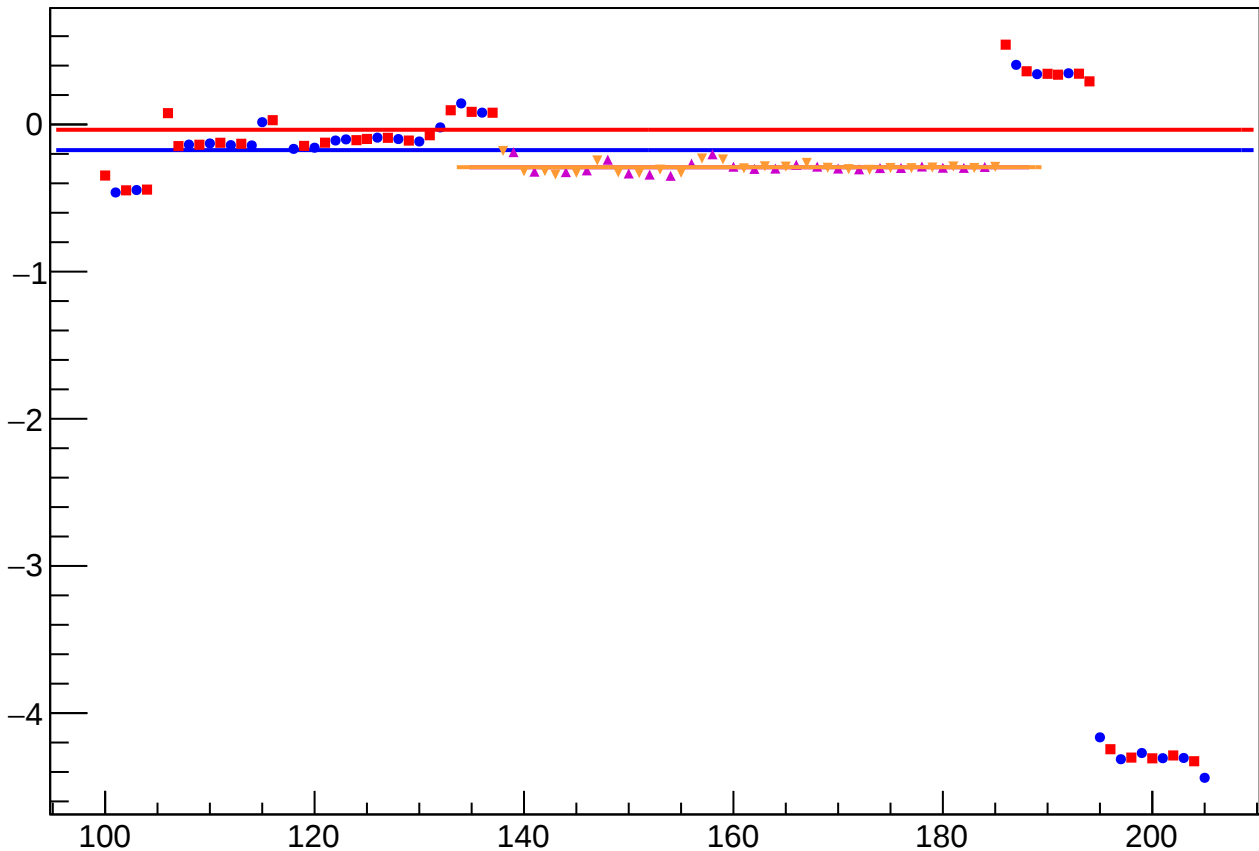
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 6128890.4/55

In: 0.011 $\pm$ 0.000 χ^2 /NDF:3334134.9/48

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:3108939.3/54

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 6444648.0/103

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000

χ^2/NDF : 265858045663.3/25

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right Out: -0.036+/-0.000

χ^2/NDF : 244380886853.9/29

Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Right: -0.098+/-0.000

χ^2/NDF : 514742877655.3/55

In: -0.272+/-0.000

χ^2/NDF : 273825437004.1/48

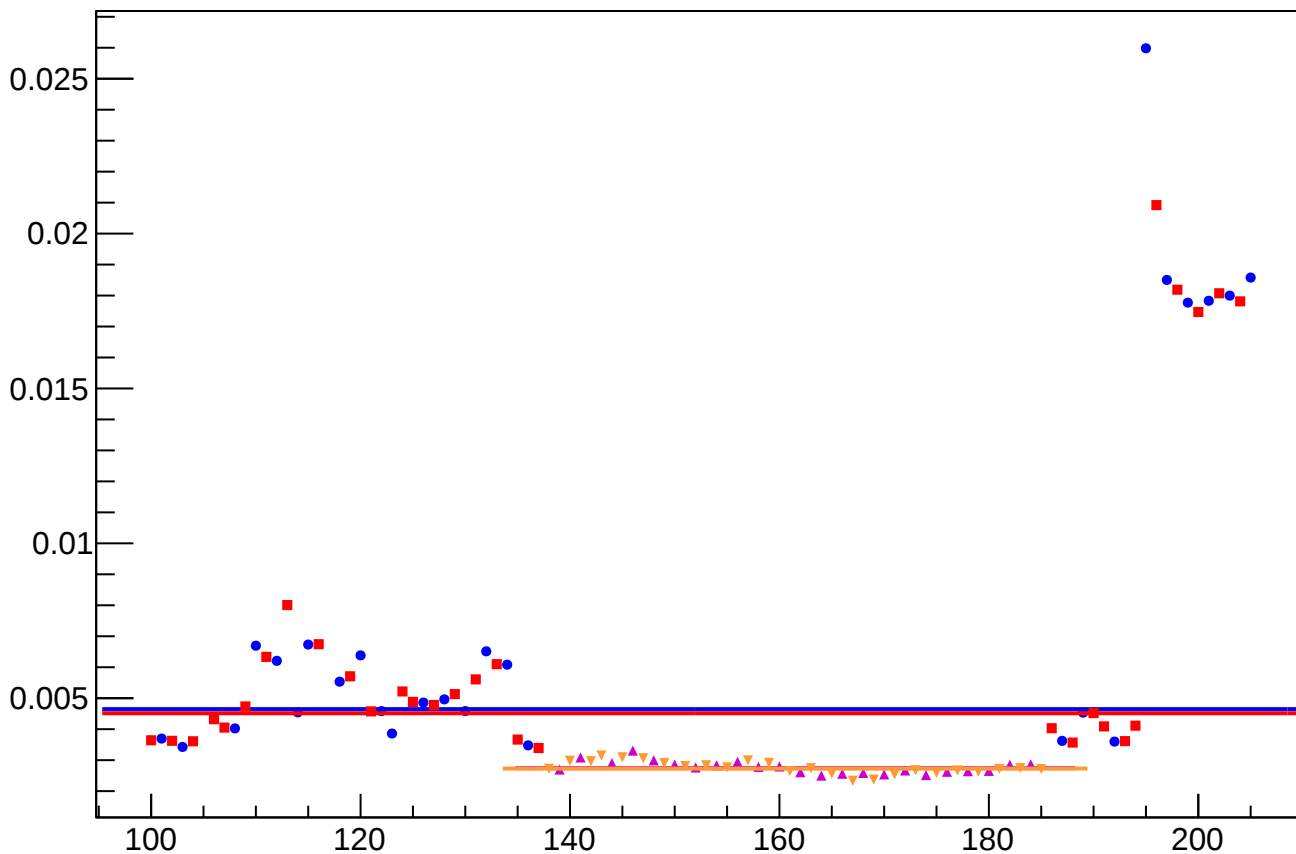
Out: -0.244+/-0.000

χ^2/NDF : 275152693684.4/54

All: -0.257+/-0.000

χ^2/NDF : 550085334579.9

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 6325324.3/25

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5011400.4/29

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

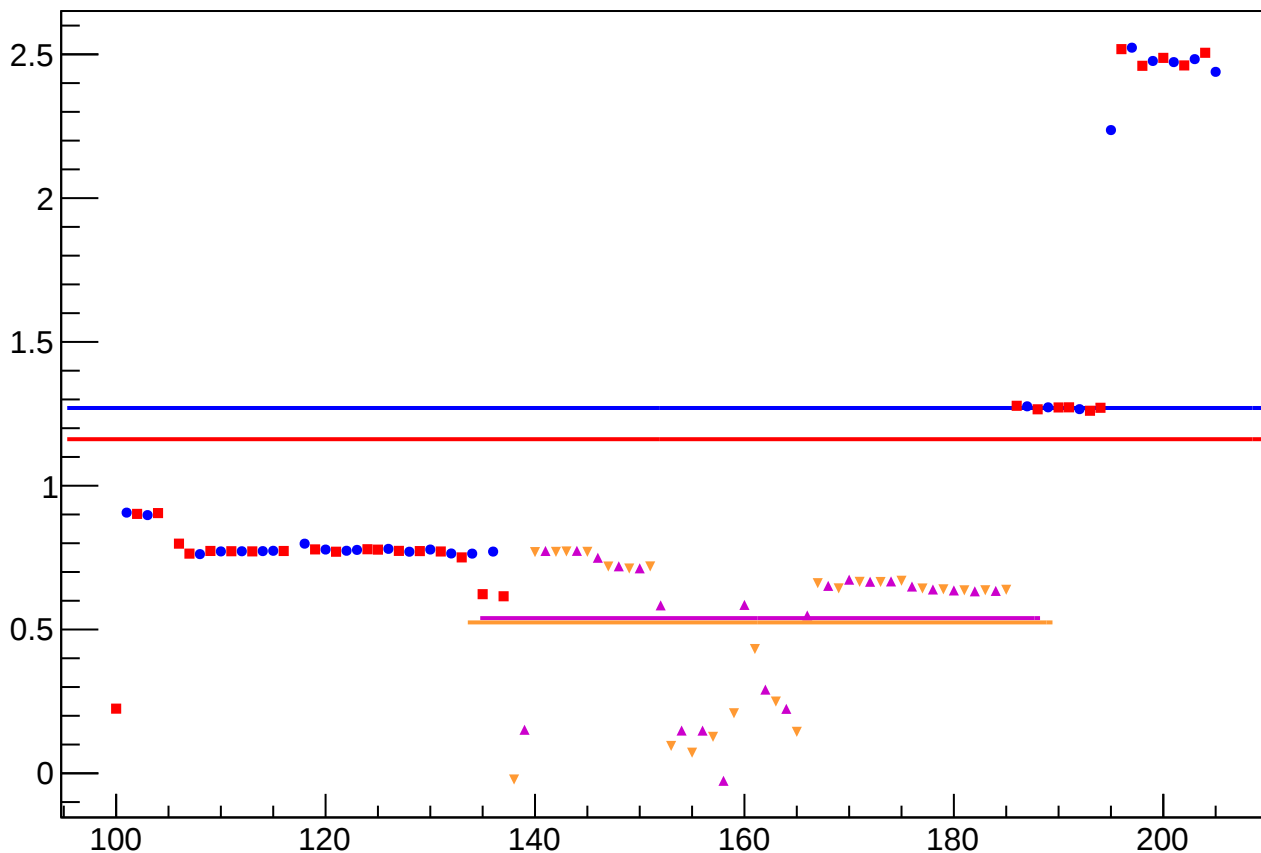
Right: 0.005+/-0.000 χ^2/NDF : 11345095.4/55

In: 0.003+/-0.000 χ^2/NDF :9054547.1/48

Out: 0.003+/-0.000 χ^2/NDF :7967976.8/54

All: 0.003+/-0.000 χ^2/NDF : 17022580.5/103

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.270 $\pm$ 0.000

χ^2 /NDF: 43450137148.5/25

Left: 0.532 $\pm$ 0.000

χ^2 /NDF: 17500739852.2/47

Left Out: 0.525 $\pm$ 0.000

χ^2 /NDF: 9623503169.9/24

Right: 1.212 $\pm$ 0.000

χ^2 /NDF: 84382097908.1/55

Right Out: 1.162 $\pm$ 0.000

χ^2 /NDF: 40416434615.6/29

In: 0.802 $\pm$ 0.000

χ^2 /NDF: 79272130075.7/48

Out: 0.768 $\pm$ 0.000

χ^2 /NDF: 73704888533.6/54

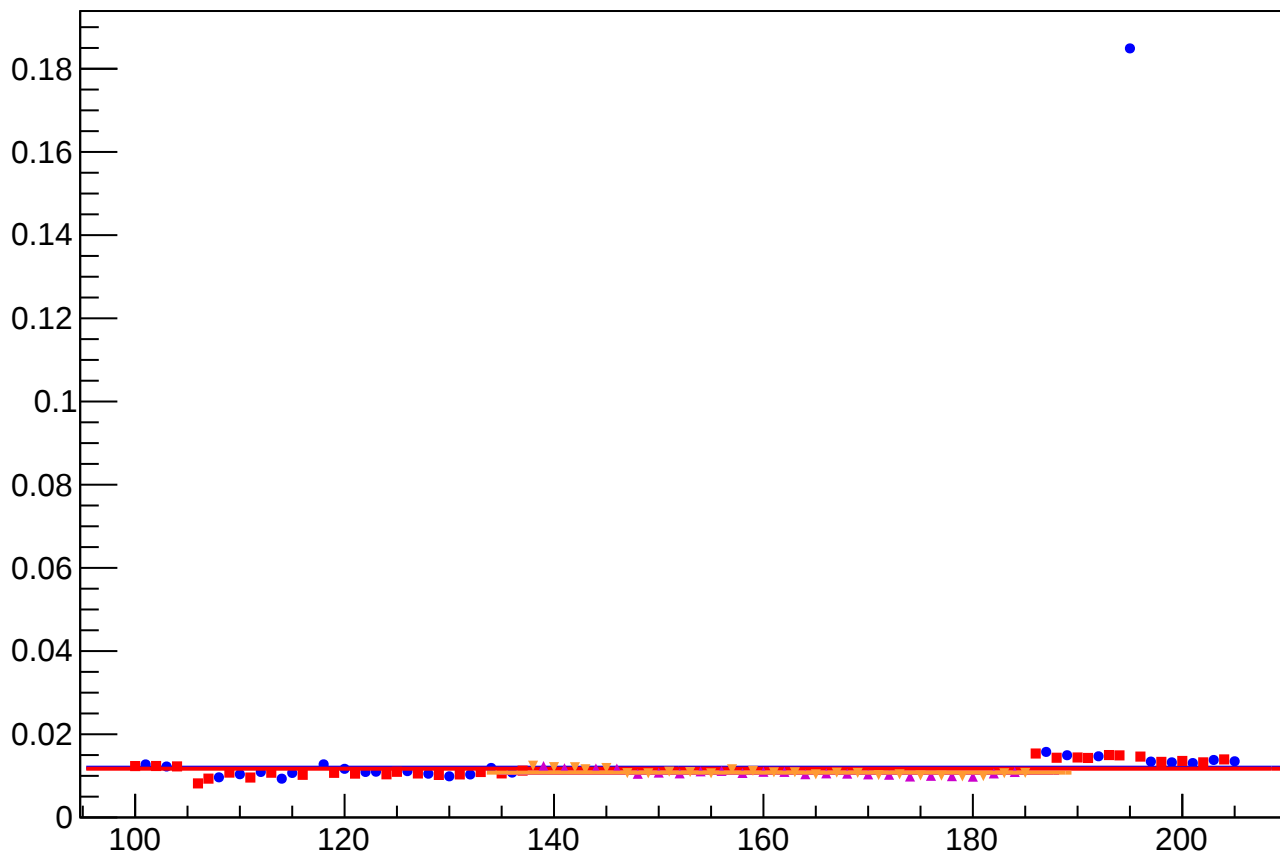
Left In: 0.540 $\pm$ 0.000

χ^2 /NDF: 7860539135.5/22

All: 0.784 $\pm$ 0.000

χ^2 /NDF: 153110776291.5

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1885027.0/25

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 708291.3/29

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

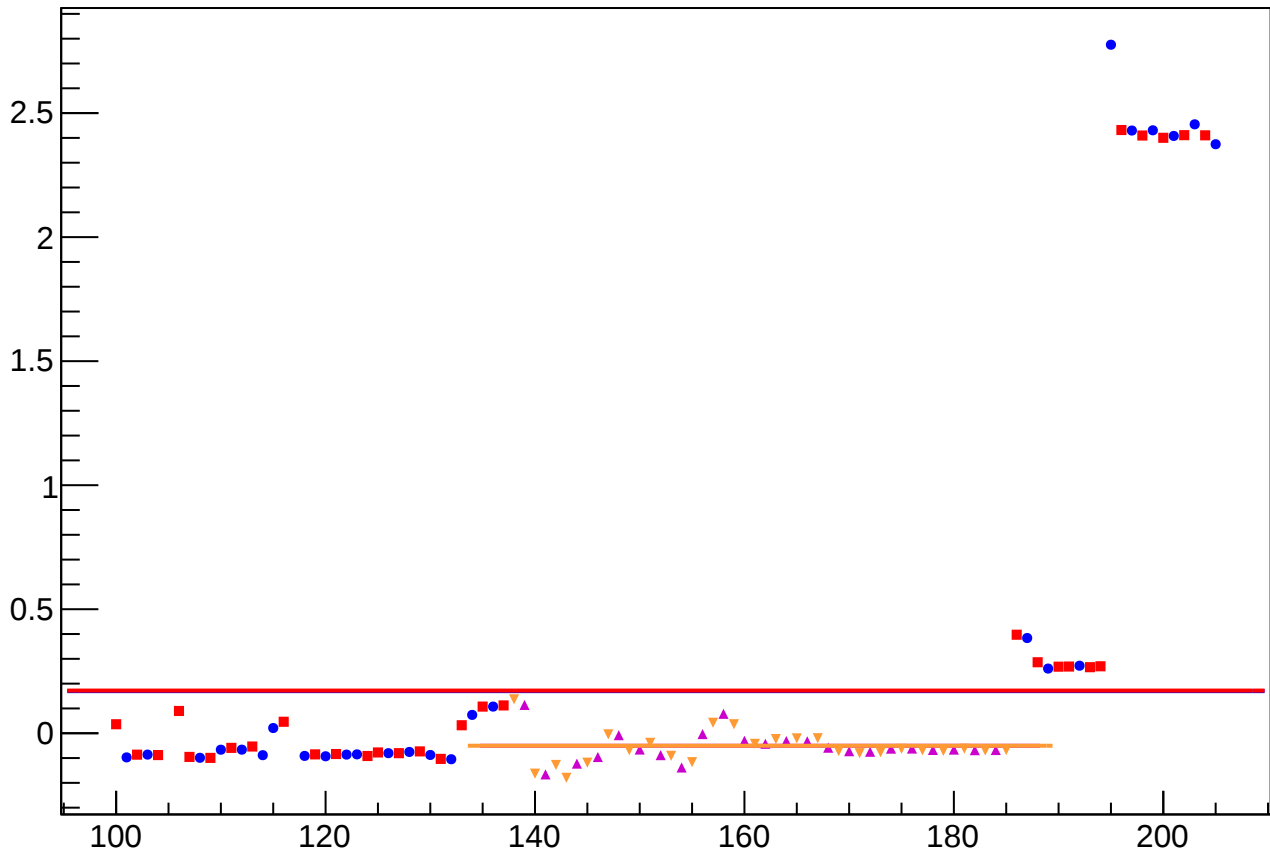
Right: 0.012+/-0.000 χ^2/NDF : 2598641.0/55

In: 0.011+/-0.000 χ^2/NDF :2174473.6/48

Out: 0.011+/-0.000 χ^2/NDF :945249.4/54

All: 0.011+/-0.000 χ^2/NDF : 3119787.0/103

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.170+/-0.000

χ^2/NDF : 133540761895.1/25

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.171+/-0.000

χ^2/NDF : 242197081906.7/55

Right Out: 0.172+/-0.000

χ^2/NDF : 108655171767.4/29

In: -0.010+/-0.000

χ^2/NDF : 155443075879.8/48

Out: -0.008+/-0.000

χ^2/NDF : 134285249463.6/54

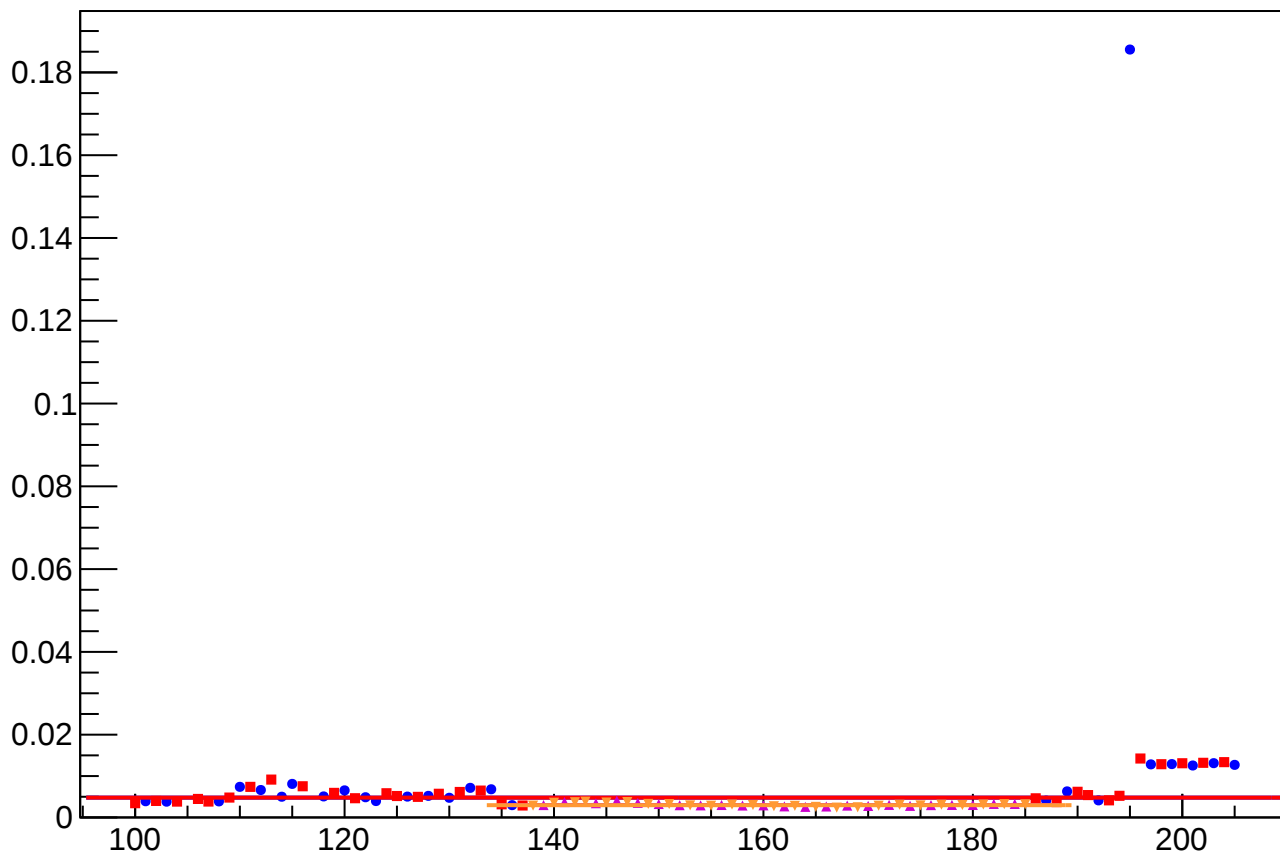
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.009+/-0.000

χ^2/NDF : 289735974025.1

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5770585.5/25

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 3872213.3/29

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

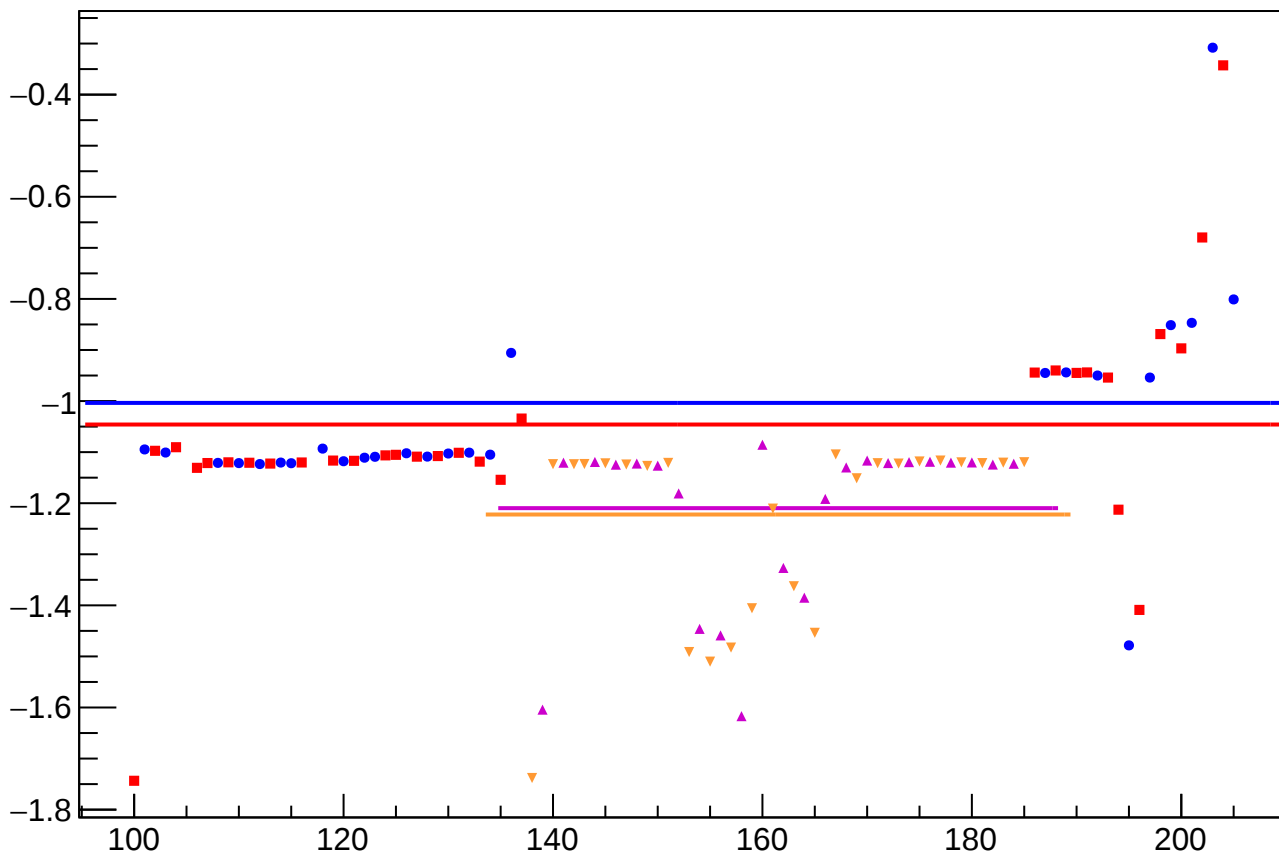
Right: 0.005+/-0.000 χ^2/NDF : 9642800.0/55

In: 0.003+/-0.000 χ^2/NDF : 8165810.8/48

Out: 0.003+/-0.000 χ^2/NDF : 6843280.0/54

All: 0.003+/-0.000 χ^2/NDF : 15009703.0/103

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 $\chi^2/\text{NDF}: 4013822694.4/25$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.046 ± 0.000 $\chi^2/\text{NDF}: 3705379971.3/29$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

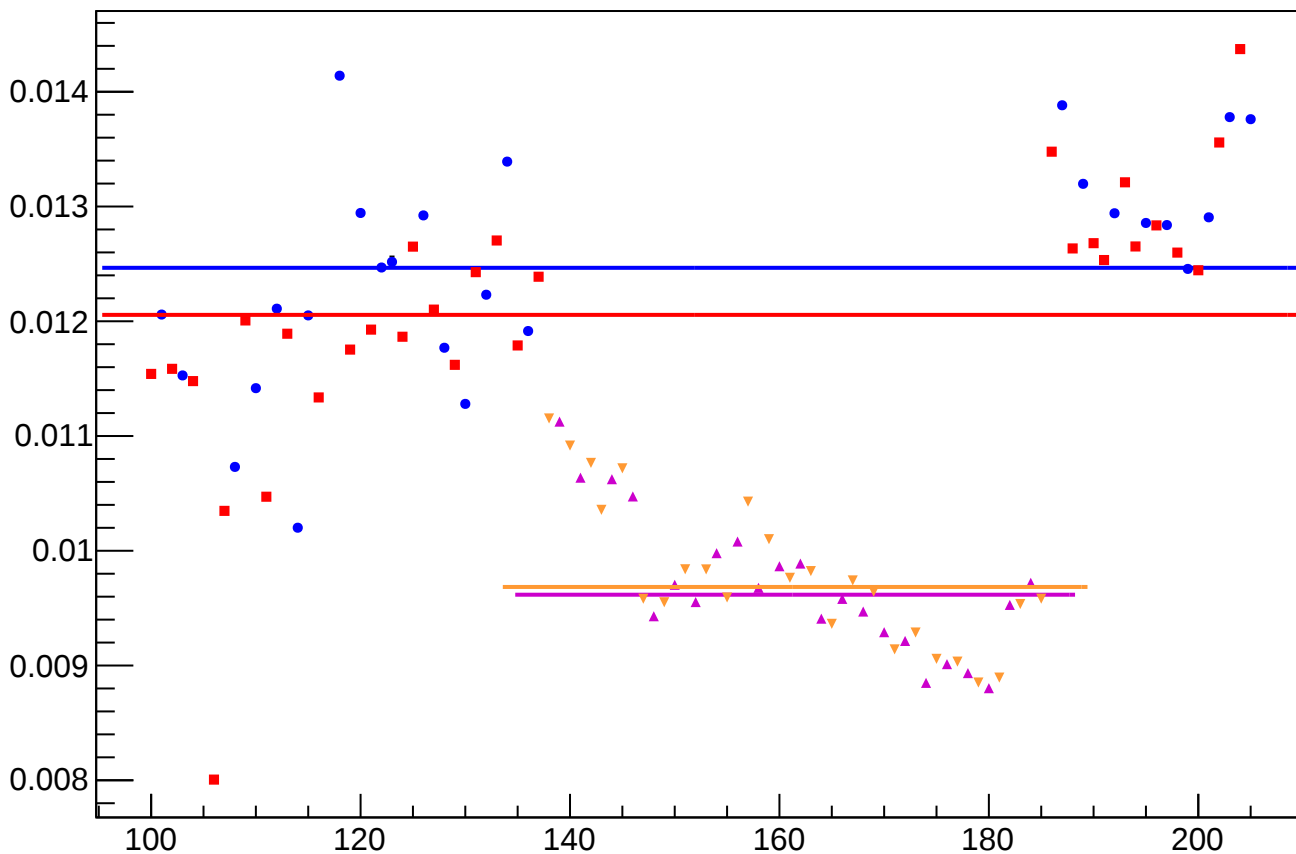
Right: -1.026 ± 0.000 $\chi^2/\text{NDF}: 7797252602.7/55$

In: -1.146 ± 0.000 $\chi^2/\text{NDF}: 10890625947.5/48$

Out: -1.164 ± 0.000 $\chi^2/\text{NDF}: 10940478378.7/54$

All: -1.155 ± 0.000 $\chi^2/\text{NDF}: 21872407942.4/100$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 119827.0/25

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 288595.3/29

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

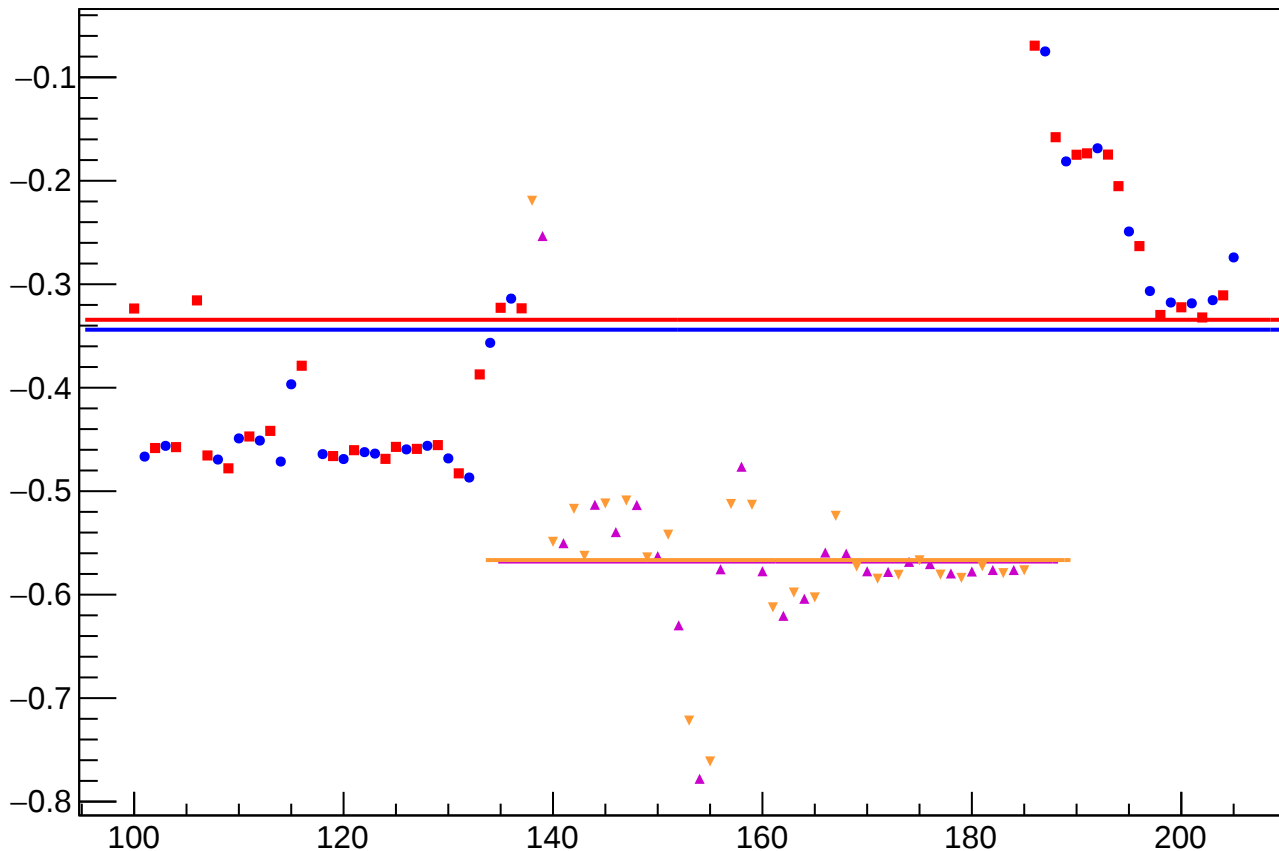
Right: 0.012+/-0.000 χ^2/NDF : 423072.0/55

In: 0.010+/-0.000 χ^2/NDF :1147182.8/48

Out: 0.010+/-0.000 χ^2/NDF :1131866.1/54

All: 0.010+/-0.000 χ^2/NDF : 2279187.4/103

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.344+/-0.000

χ^2/NDF : 8089695898.5/25

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.339+/-0.000

χ^2/NDF : 18497401810.8/55

Right Out: -0.334+/-0.000

χ^2/NDF : 10367100091.5/29

In: -0.484+/-0.000

χ^2/NDF : 46320700119.3/48

Out: -0.484+/-0.000

χ^2/NDF : 54466871565.4/54

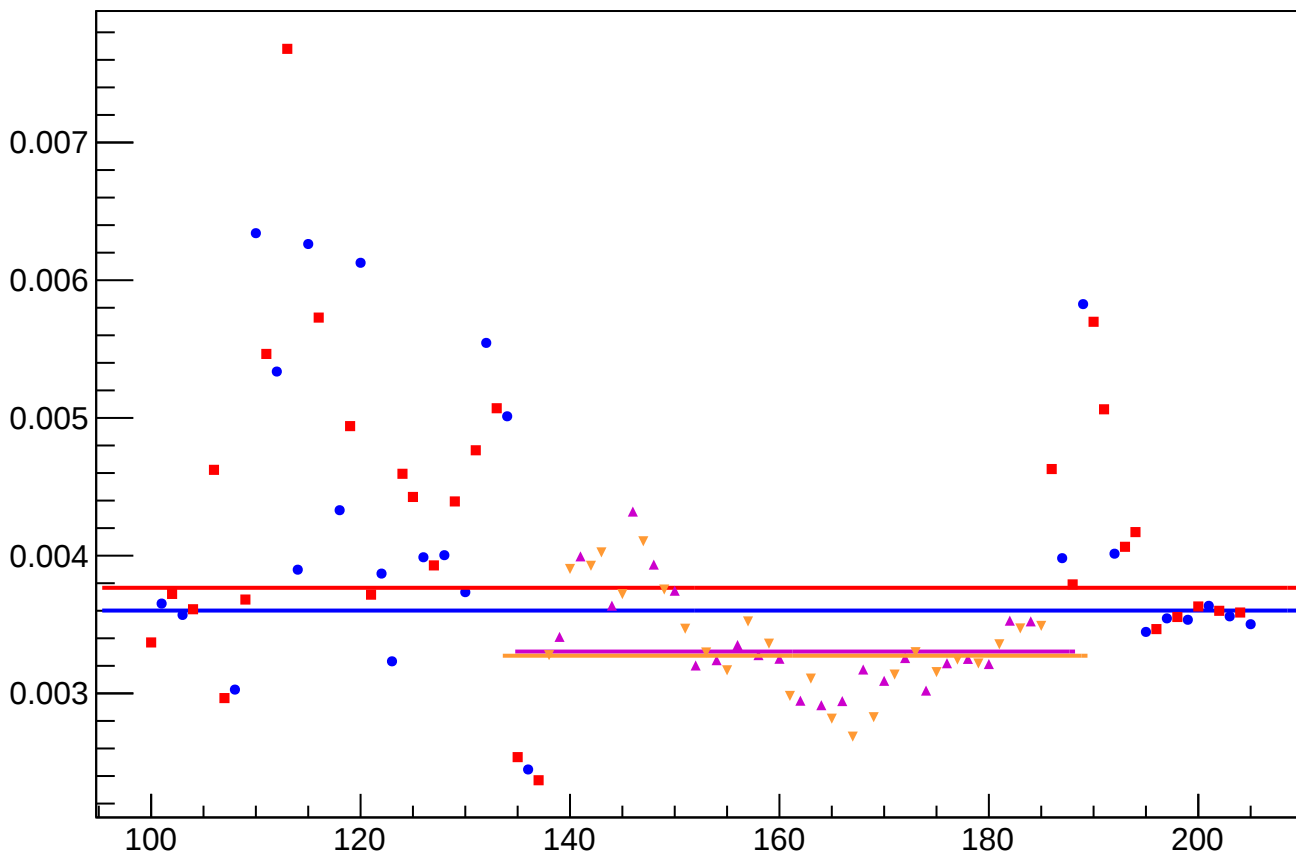
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.484+/-0.000

χ^2/NDF : 100787626044.9

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 994446.2/25

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1064084.5/29

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

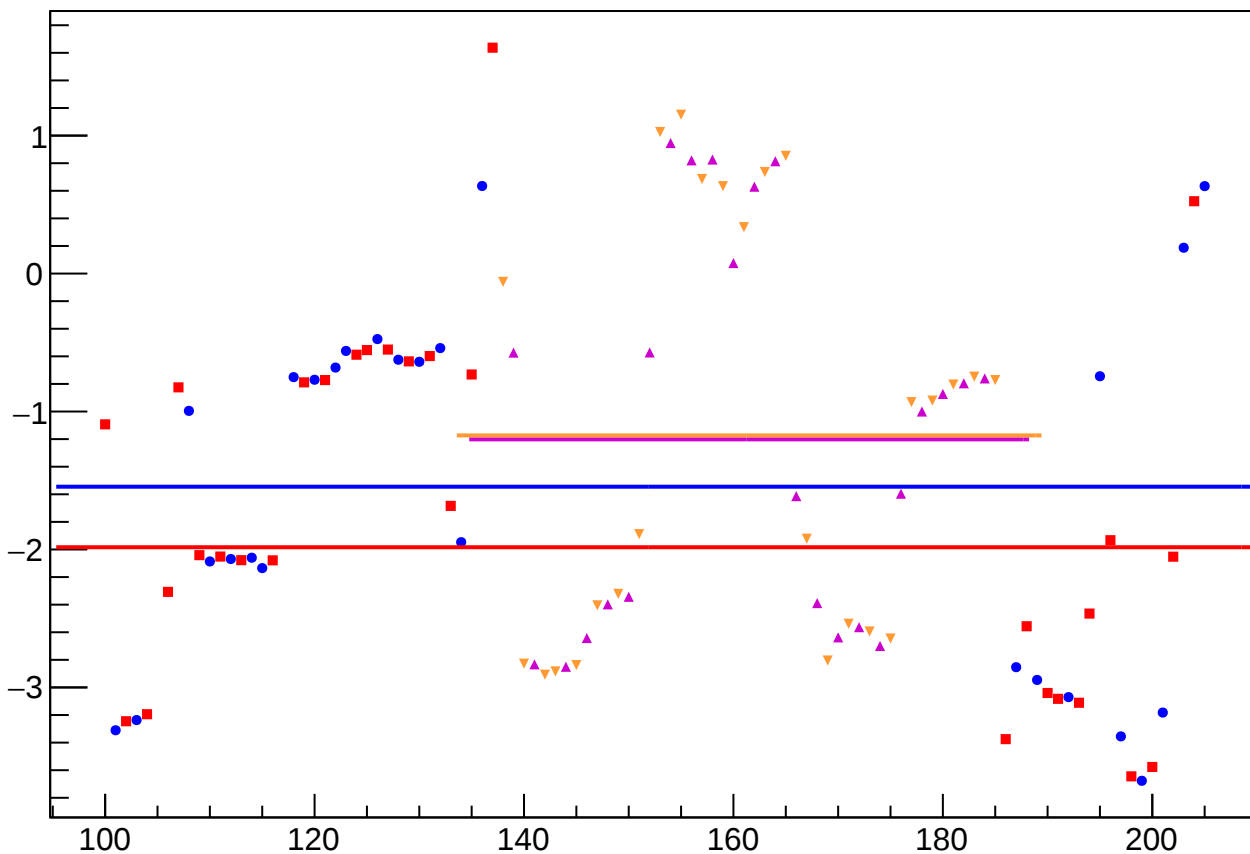
Right: 0.004+/-0.000 χ^2/NDF : 2082680.0/55

In: 0.003+/-0.000 χ^2/NDF : 1378522.2/48

Out: 0.003+/-0.000 χ^2/NDF : 1736166.4/54

All: 0.003+/-0.000 χ^2/NDF : 3117460.0/103

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.545+/-0.000

χ^2/NDF : 5089436898.7/25

Left: -1.187+/-0.000

χ^2/NDF : 12490828303.3/47

Left Out: -1.173+/-0.000

χ^2/NDF : 6882684653.2/24

Right: -1.773+/-0.000

χ^2/NDF : 9202355371.6/55

Right Out: -1.984+/-0.000

χ^2/NDF : 3878689660.6/29

In: -1.347+/-0.000

χ^2/NDF : 10855278767.3/48

Out: -1.516+/-0.000

χ^2/NDF : 11722012292.4/54

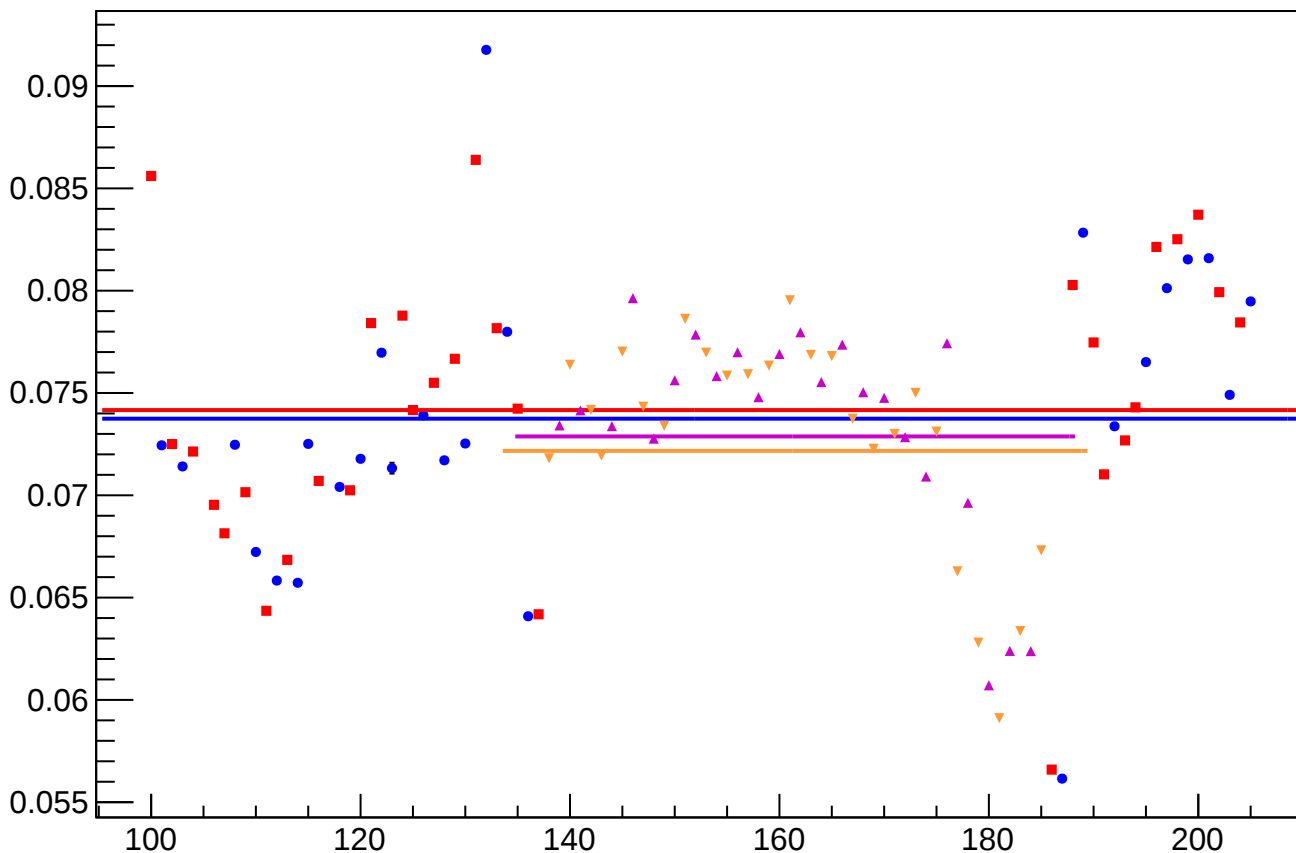
Left In: -1.202+/-0.000

χ^2/NDF : 5606782515.9/22

All: -1.435+/-0.000

χ^2/NDF : 22659072427.8/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 185144.3/25

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.074 $\pm$ 0.000 χ^2 /NDF: 226263.7/29

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2 /NDF: 407423.5/47

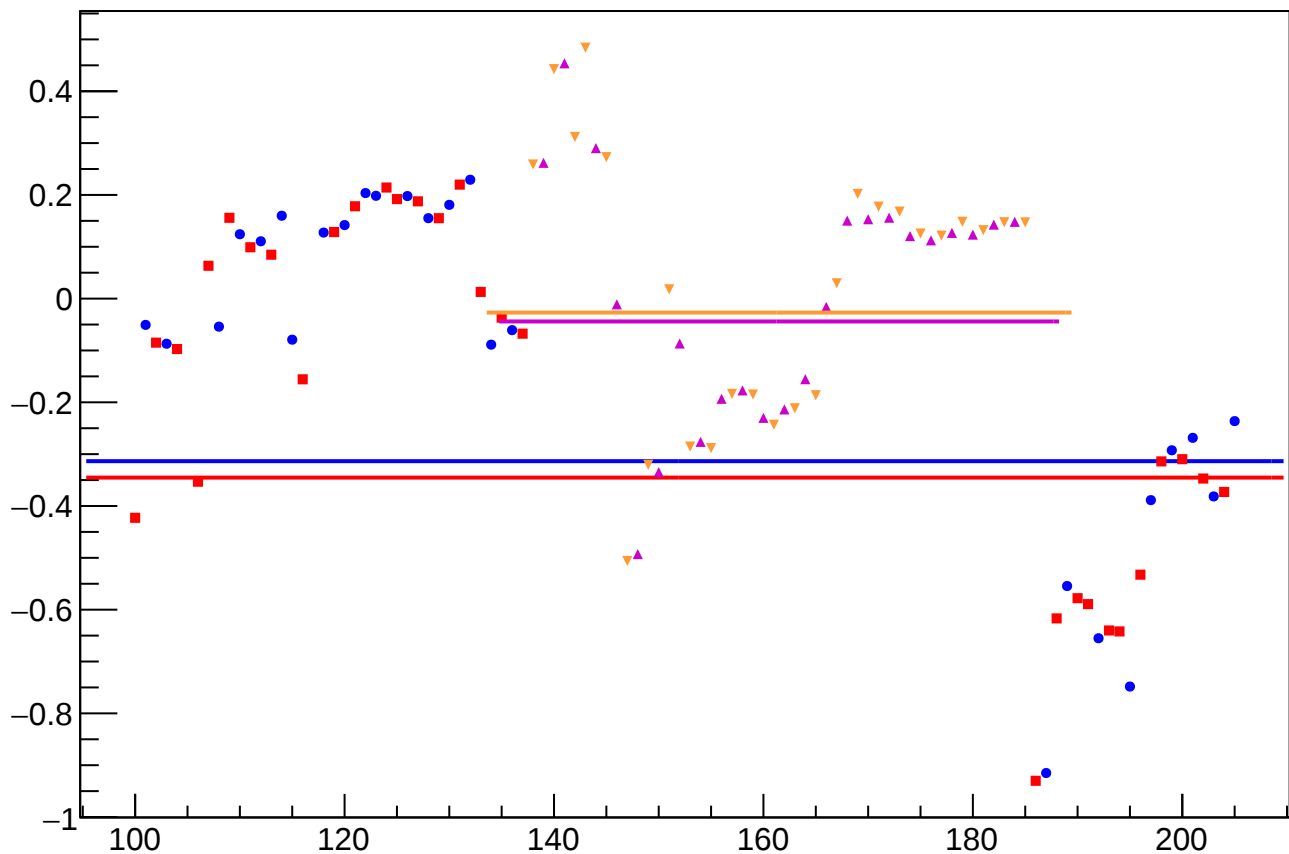
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 411840.4/55

In: 0.073 $\pm$ 0.000 χ^2 /NDF:370677.6/48

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:460162.0/54

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 831145.1/103

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.314 ± 0.000 $\chi^2/\text{NDF}: 12247489912.3/25$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.345 ± 0.000 $\chi^2/\text{NDF}: 10953966911.9/29$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

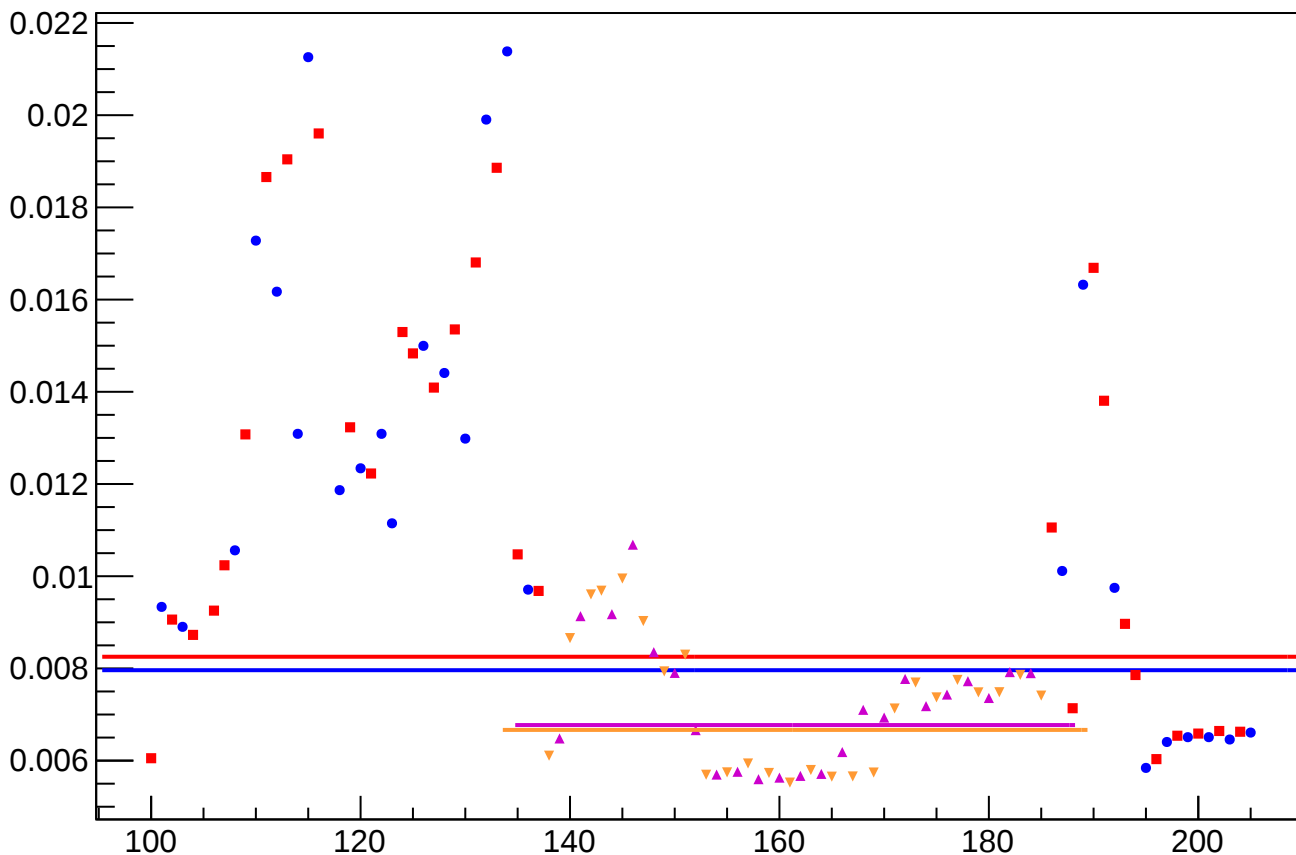
Right: -0.329 ± 0.000 $\chi^2/\text{NDF}: 23287272683.2/55$

In: -0.134 ± 0.000 $\chi^2/\text{NDF}: 36298889269.7/48$

Out: -0.126 ± 0.000 $\chi^2/\text{NDF}: 43216776798.0/54$

All: -0.130 ± 0.000 $\chi^2/\text{NDF}: 79532521763.7/100$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2650343.6/25

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2847051.7/29

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

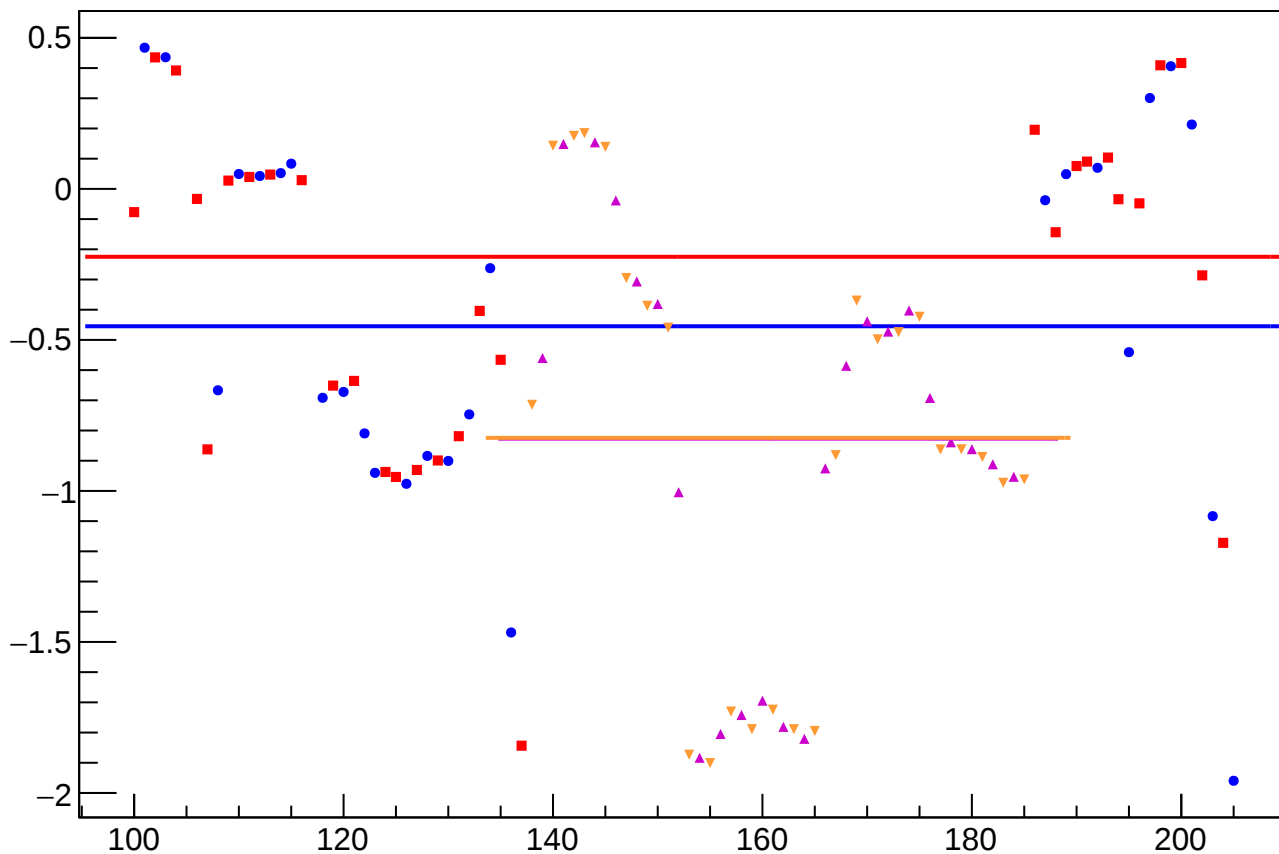
Right: 0.008+/-0.000 χ^2/NDF : 5511962.0/55

In: 0.007+/-0.000 χ^2/NDF :3909170.4/48

Out: 0.007+/-0.000 χ^2/NDF :4581723.2/54

All: 0.007+/-0.000 χ^2/NDF : 8490932.2/103

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.455+/-0.000 χ^2/NDF : 755856255.6/25

Left Out: -0.824+/-0.000 χ^2/NDF :1103610806.5/24

Right Out: -0.225+/-0.000 χ^2/NDF : 458990243.1/29

Left In: -0.827+/-0.000 χ^2/NDF :921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

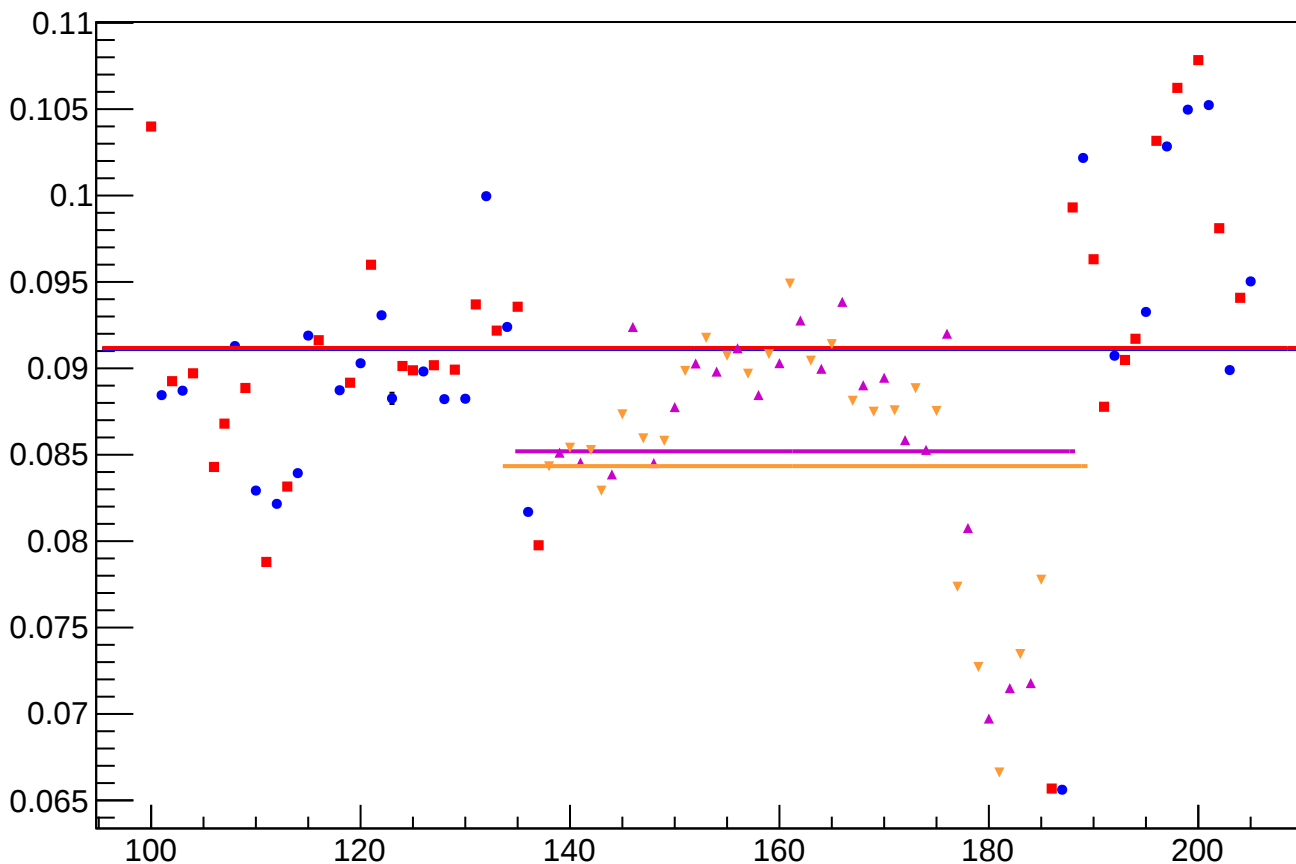
Right: -0.335+/-0.000 χ^2/NDF : 1257628122.8/55

In: -0.679+/-0.000 χ^2/NDF :1807038659.3/48

Out: -0.586+/-0.000 χ^2/NDF :1928031316.7/54

All: -0.631+/-0.000 χ^2/NDF : 3752937652.4/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091 $\pm$ 0.000 χ^2 /NDF: 189093.6/25

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 280198.0/29

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

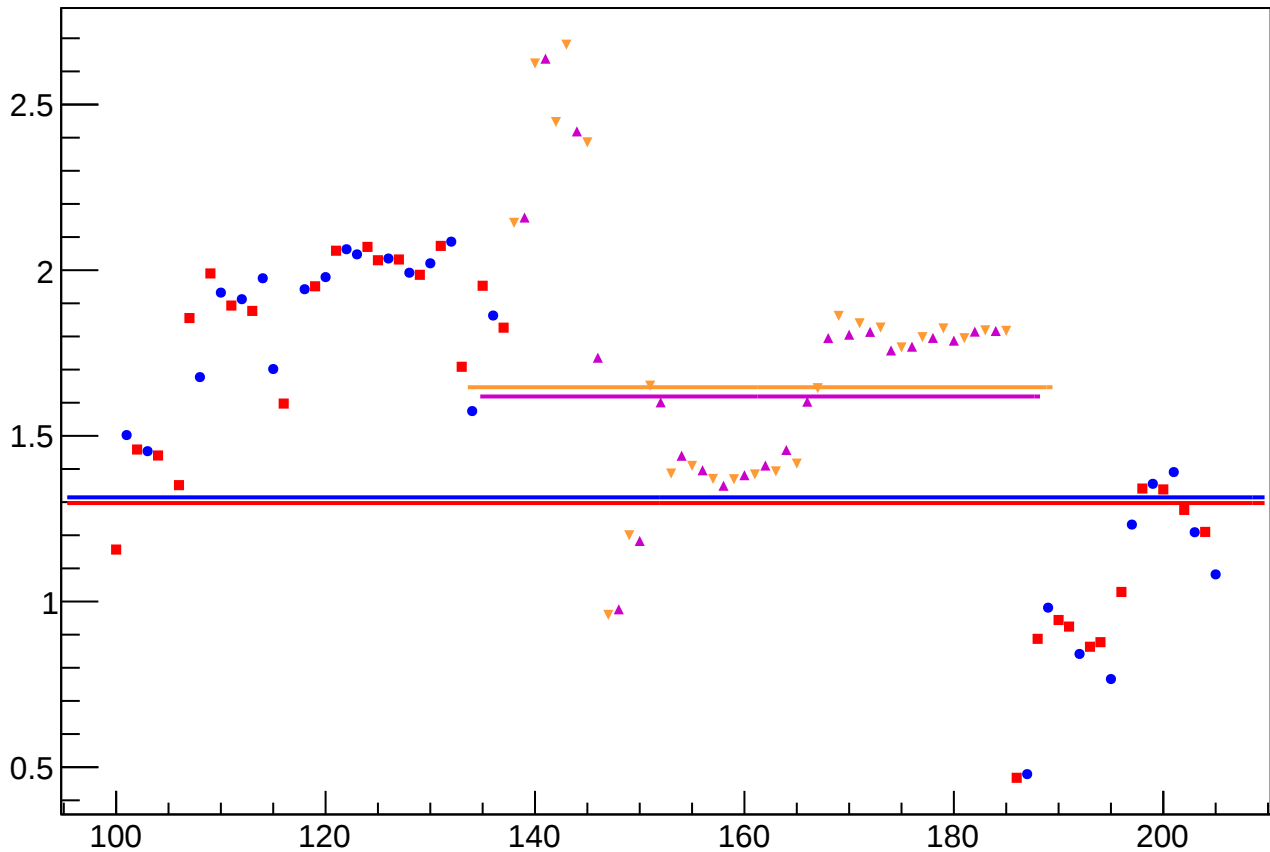
Right: 0.091 $\pm$ 0.000 χ^2 /NDF: 469297.4/55

In: 0.088 $\pm$ 0.000 χ^2 /NDF:492930.6/48

Out: 0.087 $\pm$ 0.000 χ^2 /NDF:663519.6/54

All: 0.087 $\pm$ 0.000 χ^2 /NDF: 1157401.7/103

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.314+/-0.000 χ^2/NDF : 13306418191.0/25

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.297+/-0.000 χ^2/NDF : 12064198214.8/29

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

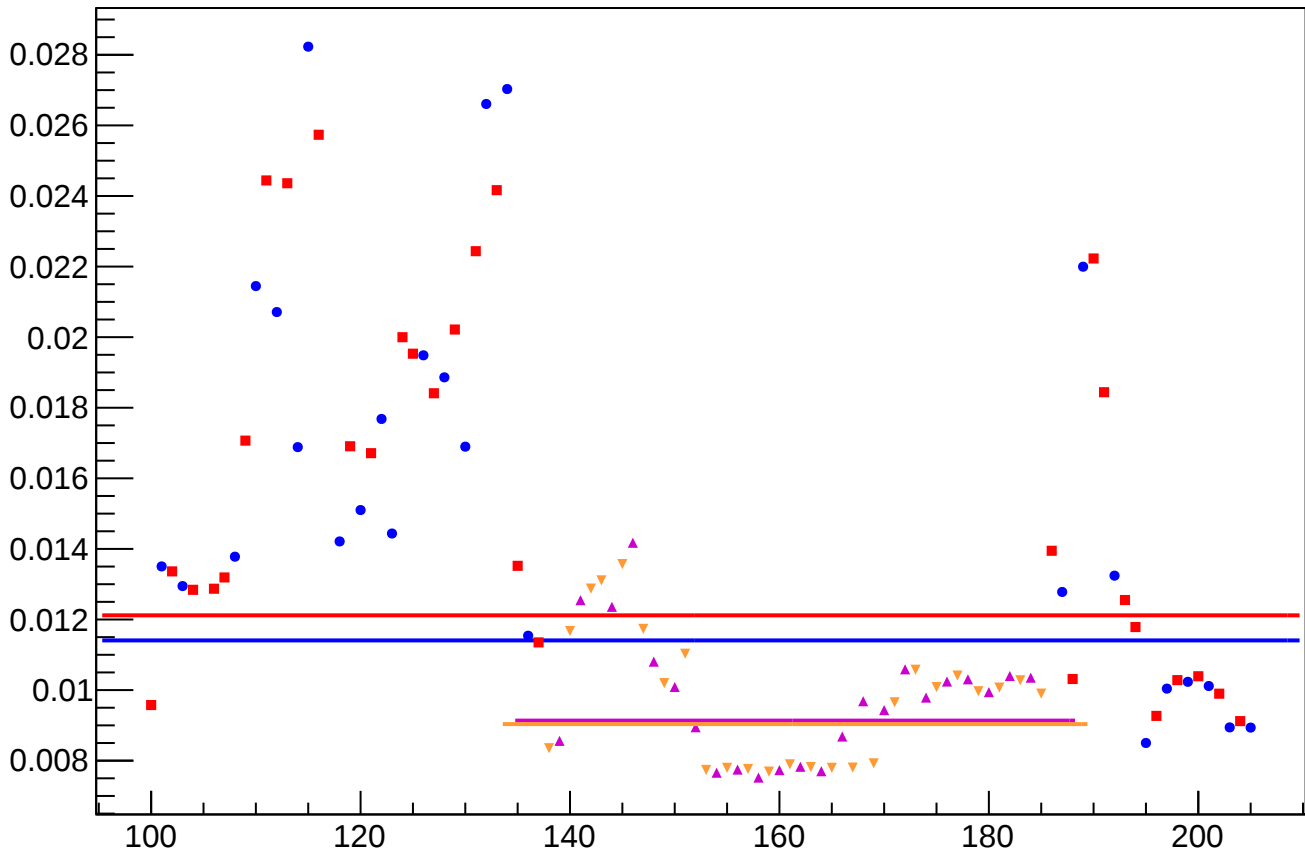
Right: 1.306+/-0.000 χ^2/NDF : 25383043248.8/55

In: 1.524+/-0.000 χ^2/NDF : 39424652290.5/48

Out: 1.548+/-0.000 χ^2/NDF : 45770945947.7/54

All: 1.537+/-0.000 χ^2/NDF : 85275755143.5/101

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2021951.0/25

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2103889.4/29

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

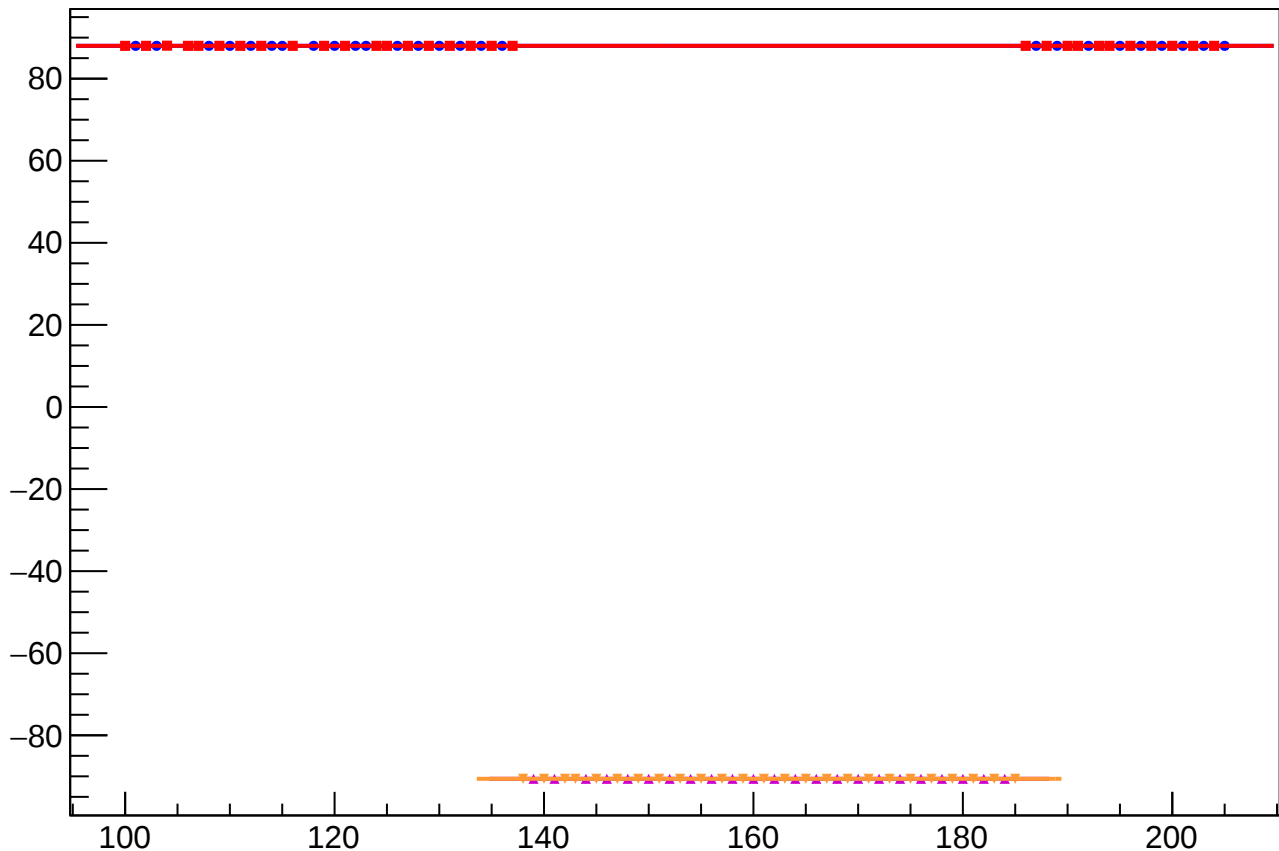
Right: 0.012+/-0.000 χ^2/NDF : 4168164.5/55

In: 0.010+/-0.000 χ^2/NDF :3513401.6/48

Out: 0.010+/-0.000 χ^2/NDF :4261724.1/54

All: 0.010+/-0.000 χ^2/NDF : 7776336.4/103

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 5273276.4/25

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80517156177369974972394504192.0/29

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

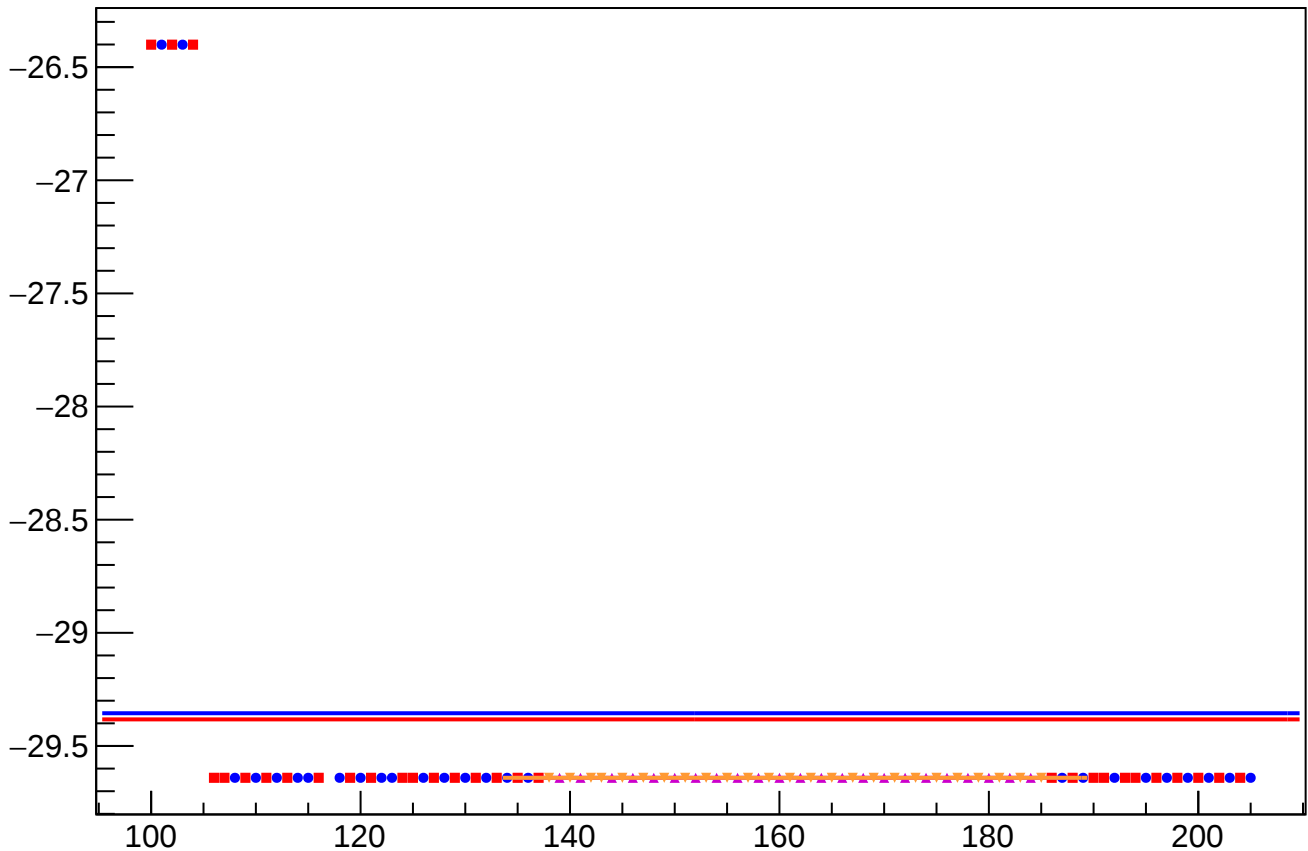
Right: 88.001+/-0.000 χ^2/NDF : 8191787160032321

In: -14.284+/-0.000 χ^2/NDF : 24479243129591808

Out: -13.228+/-0.000 χ^2/NDF : 2632434920612225

All: -13.738+/-0.000 χ^2/NDF : 508054009749

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.355+/-0.000

χ^2/NDF : 1129635768358204766535623334952960.0/25

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.383+/-0.000

χ^2/NDF : 1120705318681308468467529792094208.0/29

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

Right: -29.370+/-0.000

χ^2/NDF : 225085664549354

In: -29.519+/-0.000

χ^2/NDF : 11921069204081479

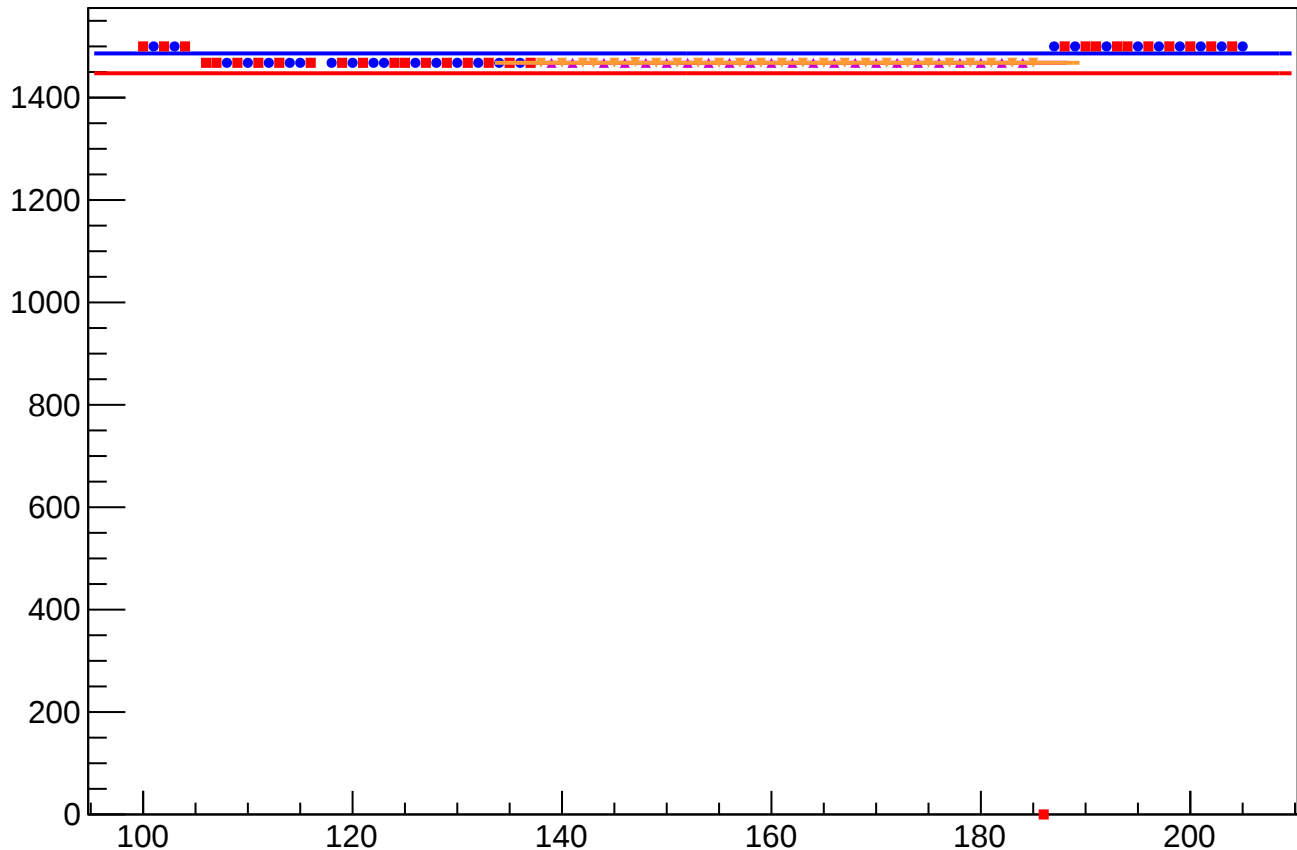
Out: -29.529+/-0.000

χ^2/NDF : 1175693719726245

All: -29.524+/-0.000

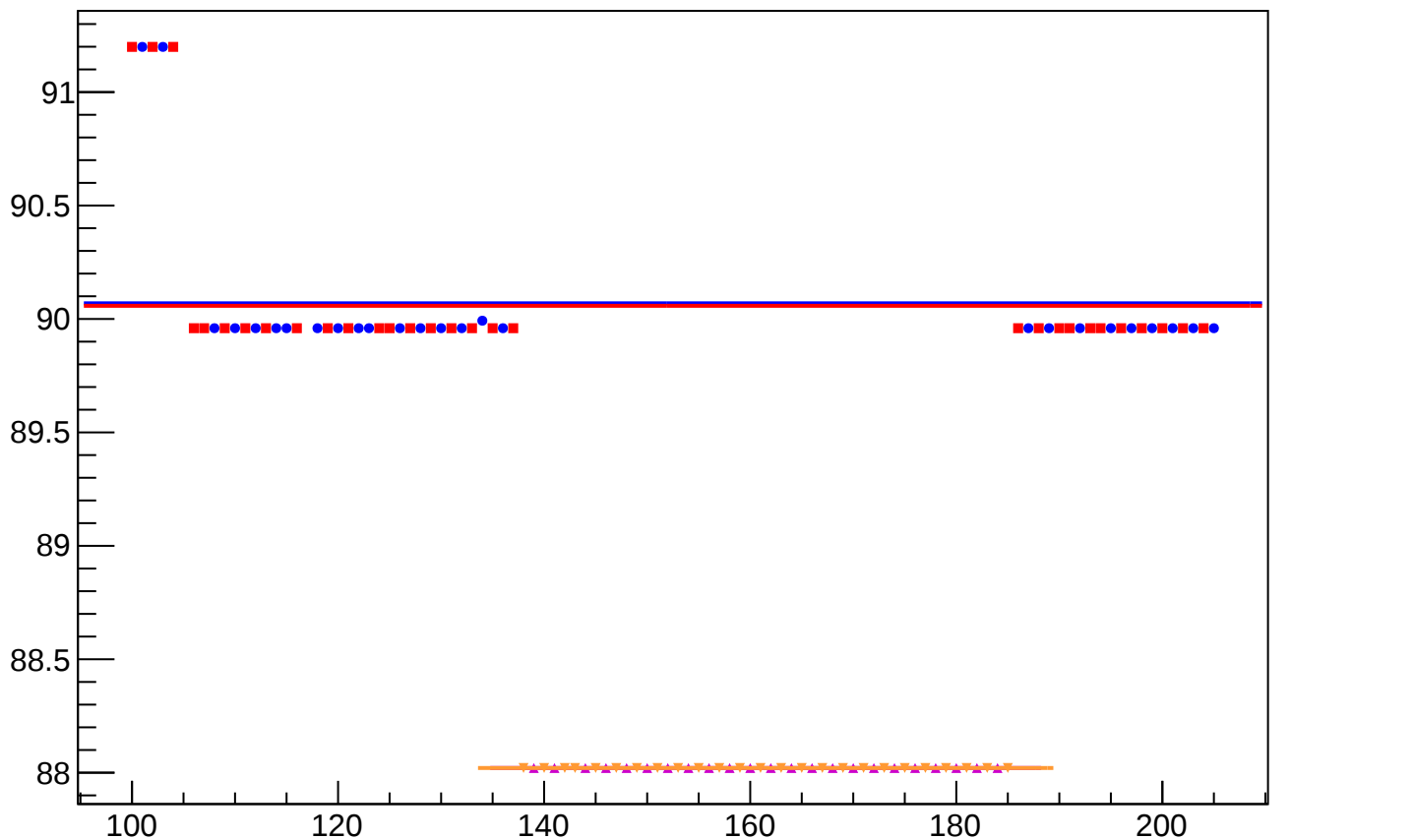
χ^2/NDF : 236796578408

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1486.308+/-0.000	χ^2/NDF : 336299319445342993885458831157231616.0/25	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1466.135+/-0.000	χ^2/NDF : 83499155244825
Right Out: 1447.569+/-0.000	χ^2/NDF : 82115665396300206073211861314958262272.0/29	In: 1475.819+/-0.000	χ^2/NDF : 5937023055084863
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1459.176+/-0.000	χ^2/NDF : 824618939441529
	All: 1467.210+/-0.000	χ^2/NDF : 83504955828	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.069+/-0.000

χ^2/NDF : 165330539196903893509318836748288.0/25

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.063+/-0.000 χ^2/NDF : 3295652329811434

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

In: 88.896+/-0.000 χ^2/NDF : 338509890621094890

Right Out: 90.058+/-0.000

χ^2/NDF : 164151472527513781167318565388288.0/29

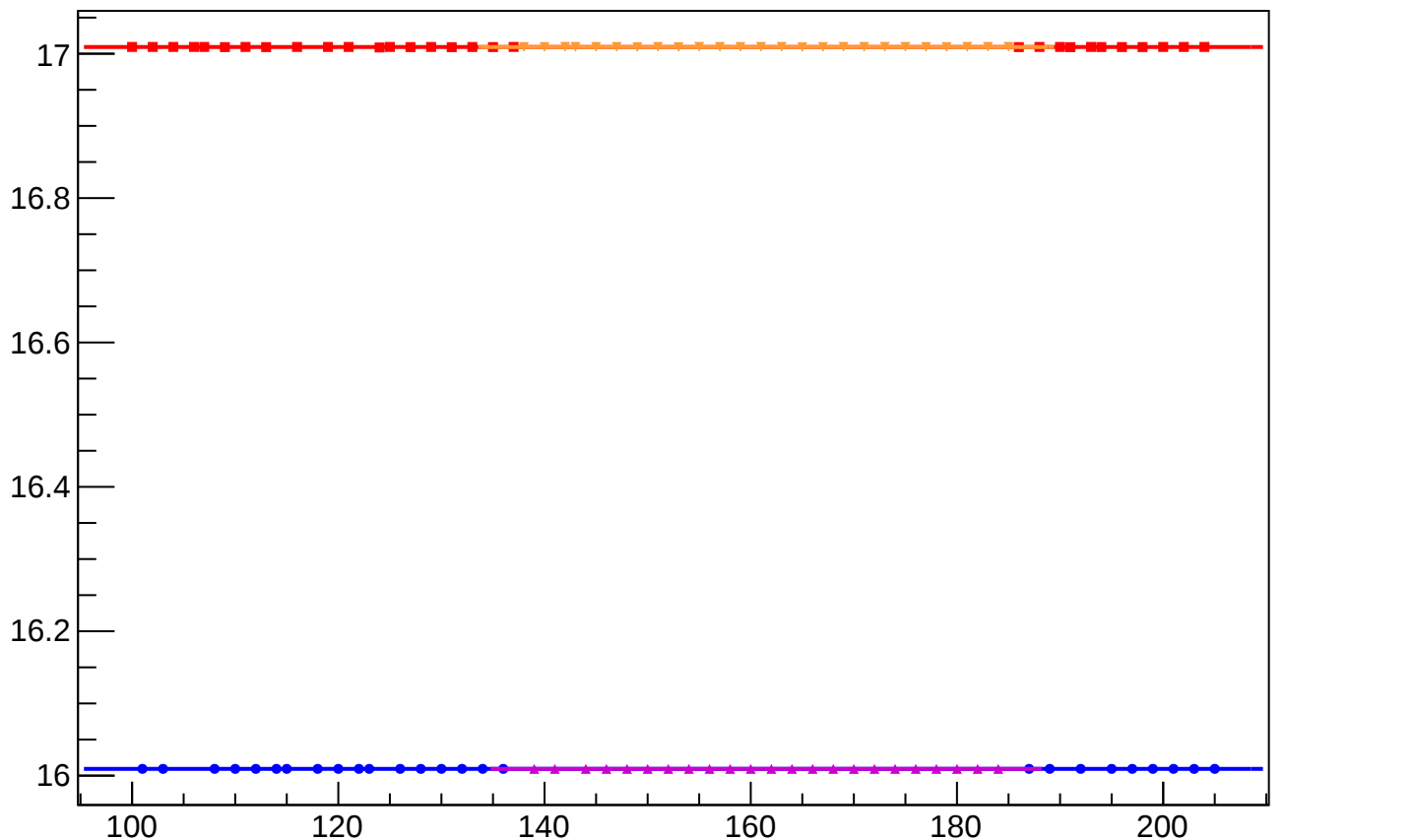
Out: 88.903+/-0.000 χ^2/NDF : 35897308365996041

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

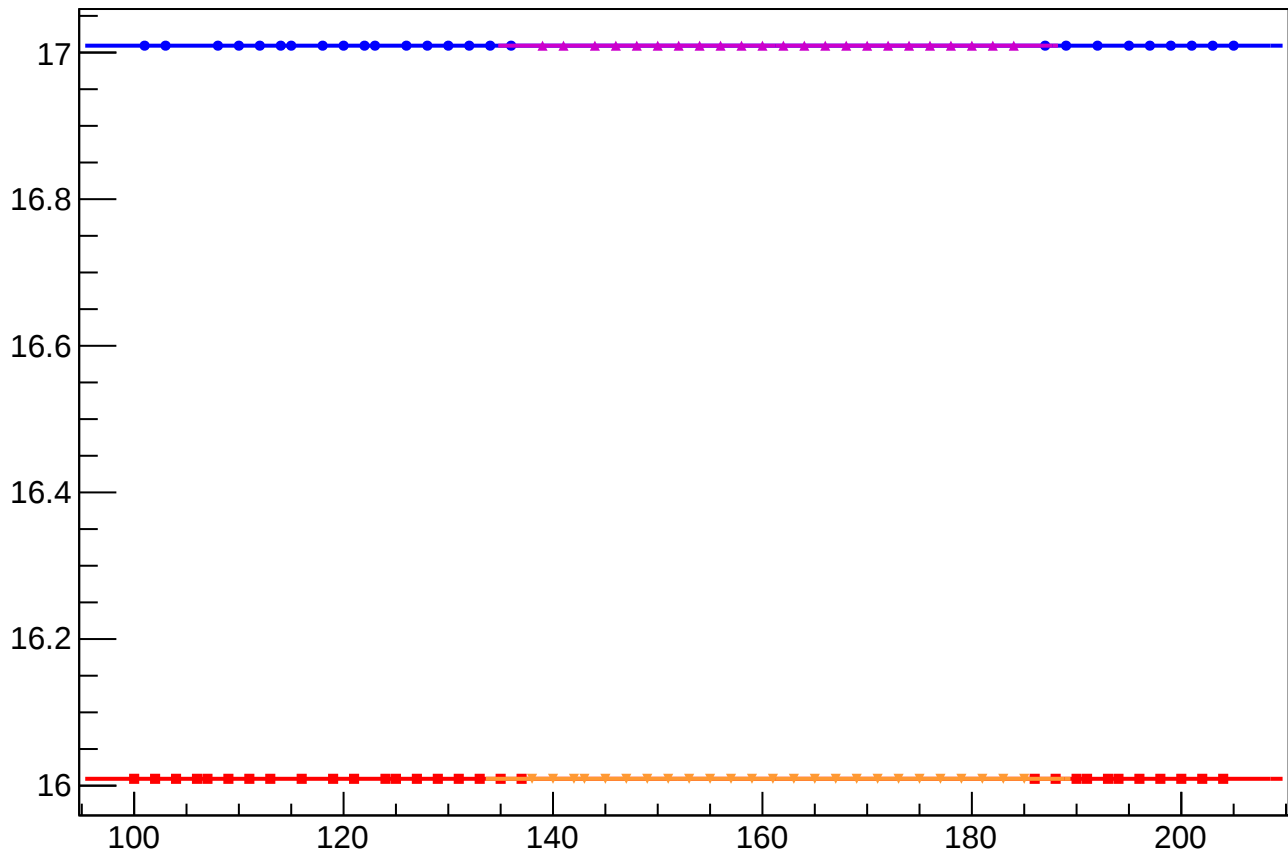
All: 88.900+/-0.000 χ^2/NDF : 6974917896259

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 113097197496727576248320.0/25
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24
 Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 18087658344591480814829568.0/29
 Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22
 All: 16.524 $\pm$ 0.000 χ^2 /NDF: 1532096226328.0/22

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 113097197540881870094336.0/25

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

Right: 16.484+/-0.000

χ^2/NDF : 6874439405413638

Right Out: 16.009+/-0.000

χ^2/NDF : 255957.0/29

In: 17.009+/-0.000

χ^2/NDF : 228356847327543528

Out: 16.009+/-0.000

χ^2/NDF : 756953.1/54

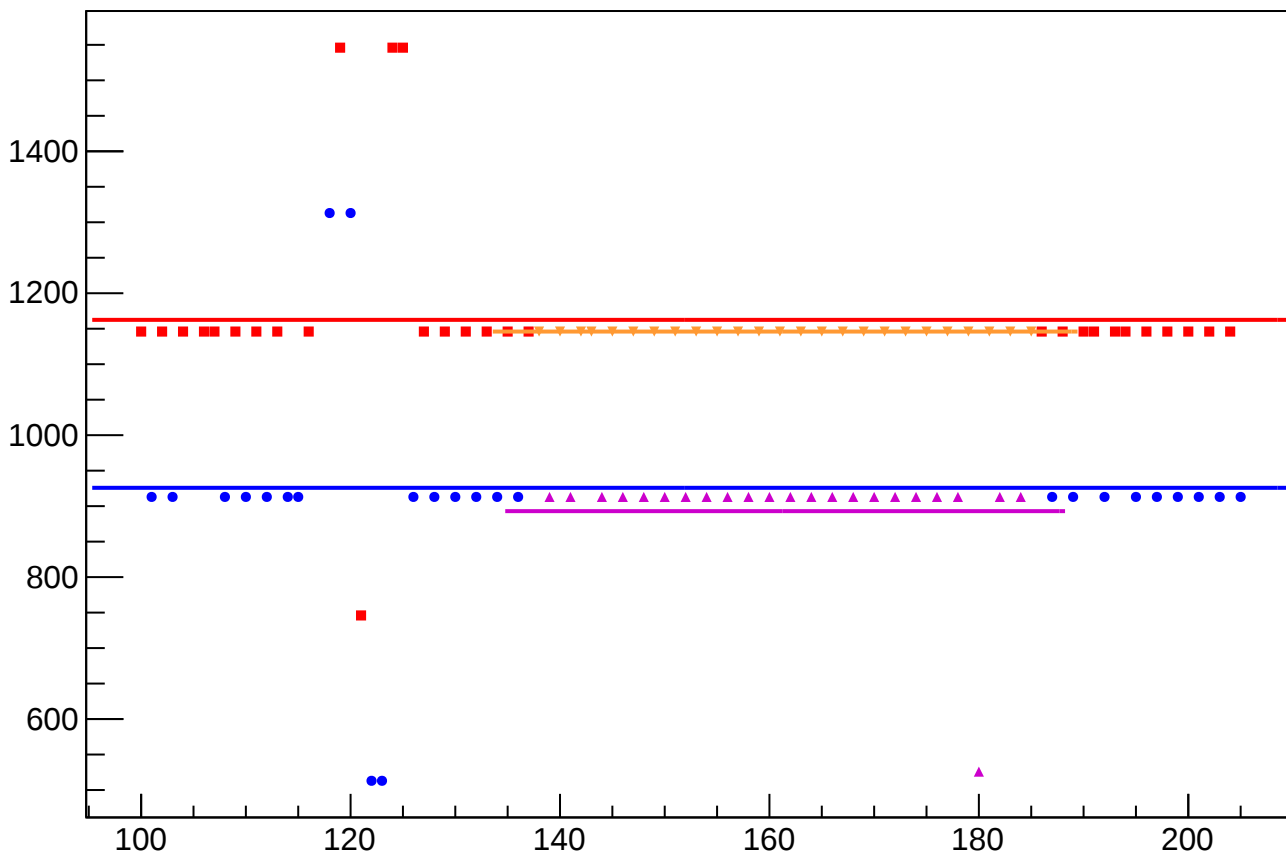
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.488+/-0.000

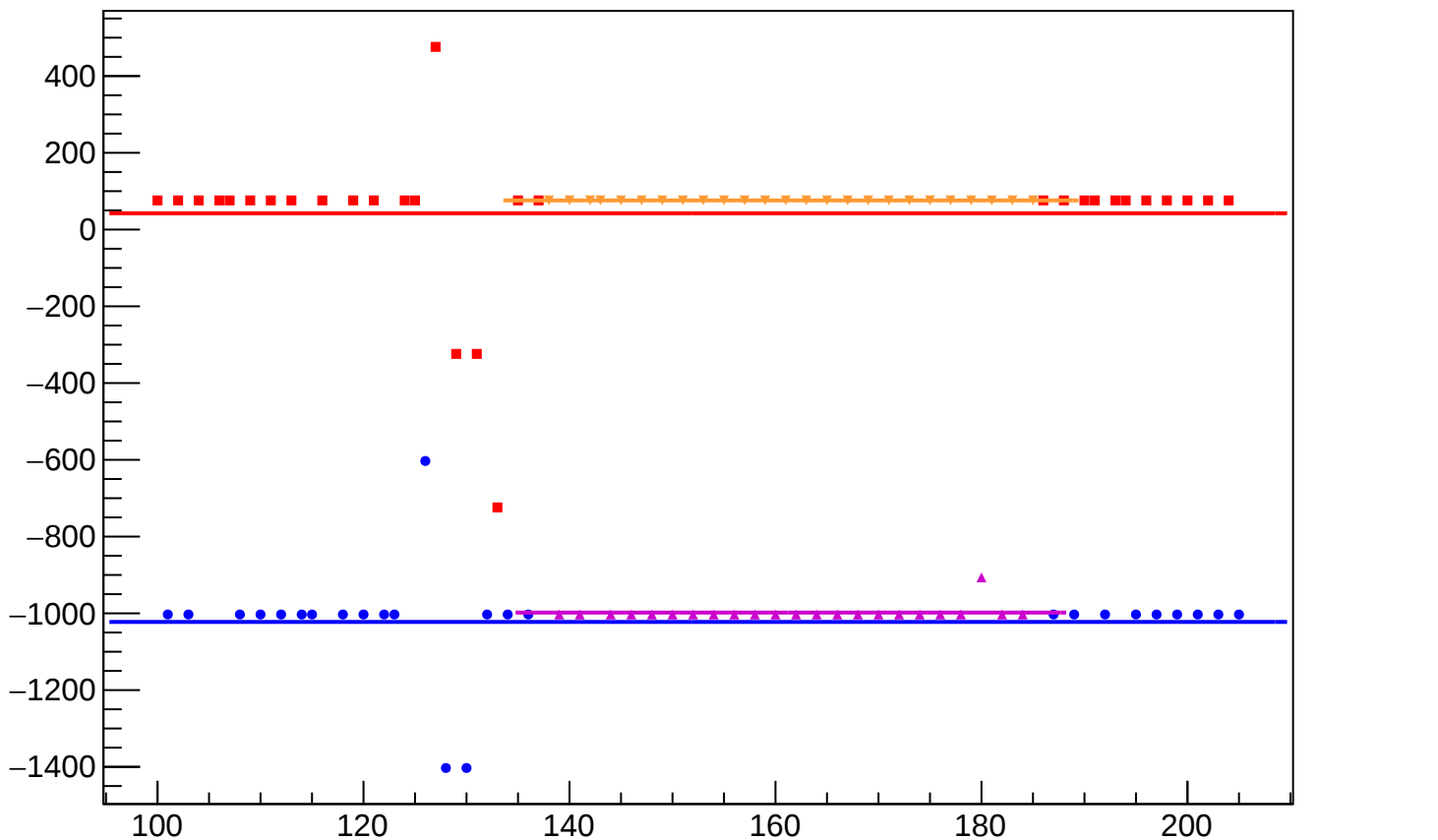
χ^2/NDF : 1594369756847

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 925.831+/-0.000 χ^2/NDF : 21060565471287802290978542788741693440.0/25
 Left Out: 1146.011+/-0.000 χ^2/NDF : 80568346702701338499999540224.0/24
 Right Out: 1162.494+/-0.000 χ^2/NDF : 21685108835366846090855465845996388352.0/29
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1034.338+/-0.000 χ^2/NDF : 15530942309

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1022.392 $\pm$ 0.000 χ^2 /NDF: 22695175229449044375762769599774326784.0/25
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 11479003589933272170007363584.0/24
 Right Out: 42.494 $\pm$ 0.000 χ^2 /NDF: 45404140078183315085395812919057317888.0/29
 Left In: -997.979 $\pm$ 0.000 χ^2 /NDF: 825858066518991041870194619245920256.0/22
 All: -454.934 $\pm$ 0.000 χ^2 /NDF: 19273424477