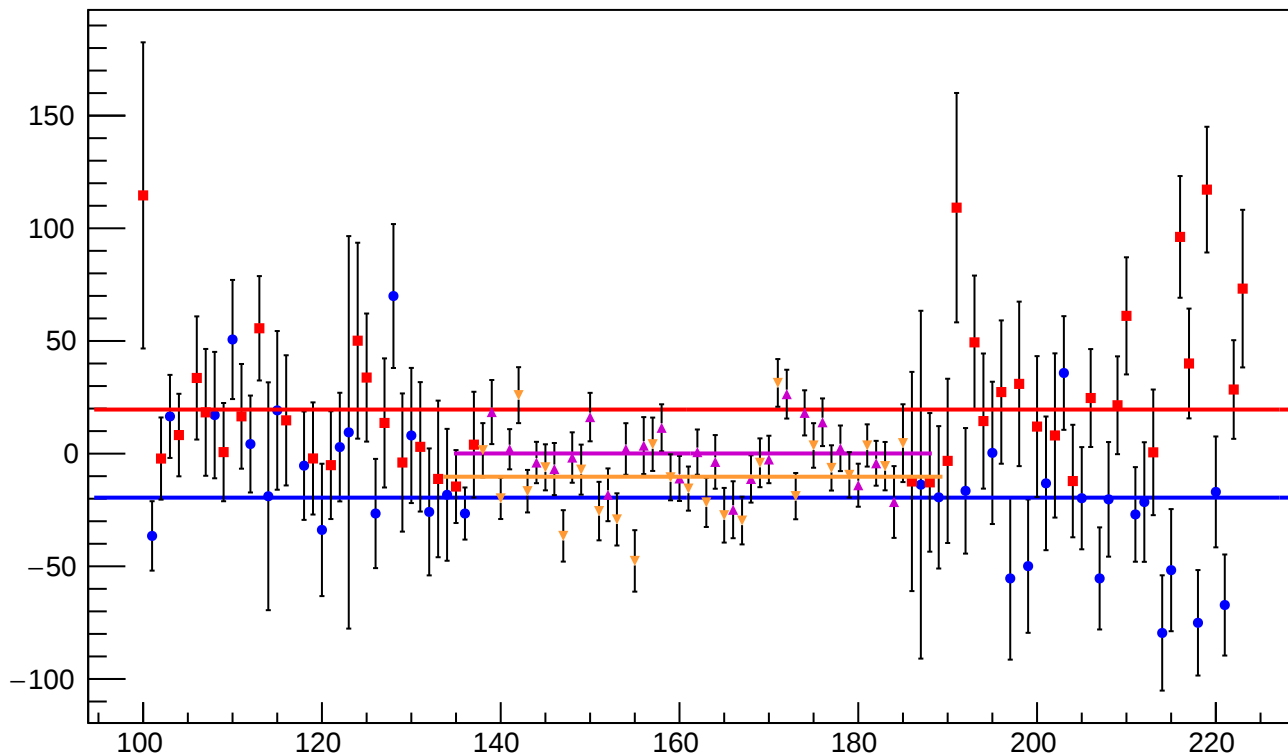


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -19.524 ± 4.180

χ^2/NDF : 54.0/34

Left Out: -10.238 ± 2.170

χ^2/NDF : 58.1/24

Right Out: 19.567 ± 4.258

χ^2/NDF : 51.1/38

Left In: 0.080 ± 2.251

χ^2/NDF : 29.9/22

Left: -5.266 ± 1.562

χ^2/NDF : 98.9/47

Right: -0.339 ± 2.983

χ^2/NDF : 148.0/73

In: -4.325 ± 1.982

χ^2/NDF : 100.9/57

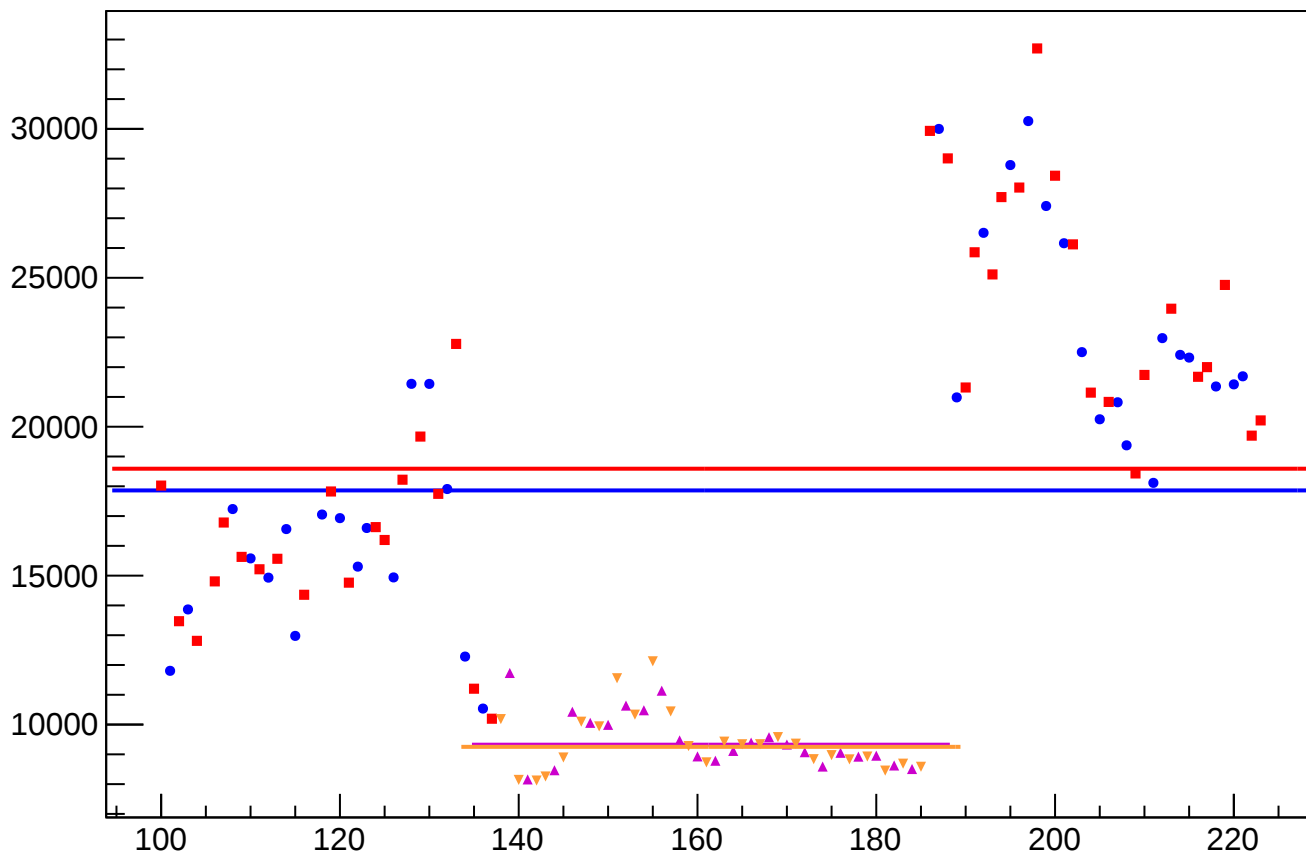
Out: -4.092 ± 1.934

χ^2/NDF : 148.1/63

All: -4.206 ± 1.384

χ^2/NDF : 249.0/121

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17861.174 $\pm$ 2.956 χ^2/NDF : 3052070.0/34

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

Right Out: 18590.150 $\pm$ 3.011 χ^2/NDF : 3086501.3/38

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

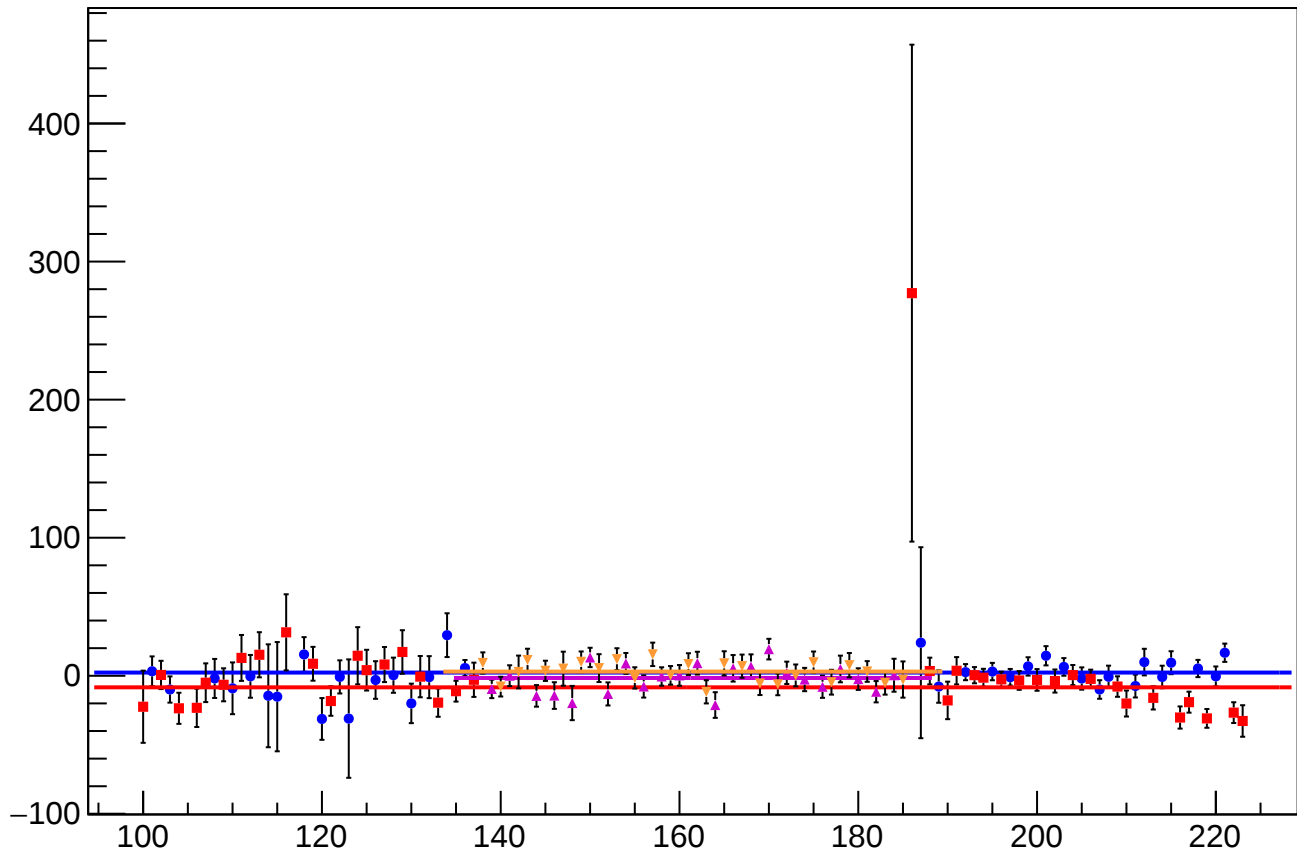
Right: 18218.939 $\pm$ 2.109 χ^2/NDF : 6168423.4/73

In: 11242.540 $\pm$ 1.401 χ^2/NDF : 9795431.2/57

Out: 11177.541 $\pm$ 1.367 χ^2/NDF : 11055094.4/63

All: 11209.244 $\pm$ 0.979 χ^2/NDF : 20851627.9

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.326 ± 1.509 $\chi^2/\text{NDF}: 32.0/34$

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

Right Out: -8.356 ± 1.501 $\chi^2/\text{NDF}: 68.0/38$

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

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

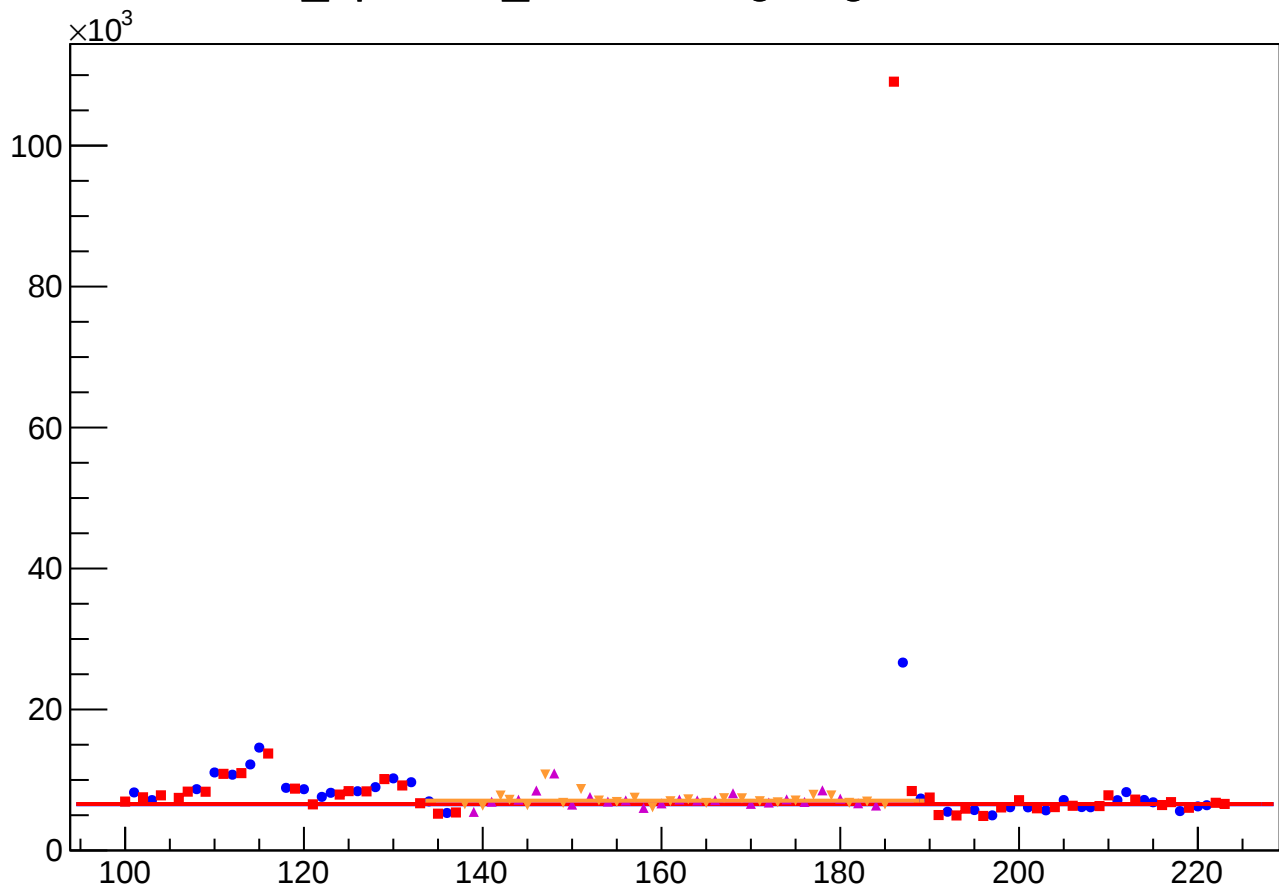
Right: -3.045 ± 1.064 $\chi^2/\text{NDF}: 125.2/73$

In: 0.604 ± 1.129 $\chi^2/\text{NDF}: 70.5/57$

Out: -3.239 ± 1.113 $\chi^2/\text{NDF}: 112.5/63$

All: -1.345 ± 0.793 $\chi^2/\text{NDF}: 188.8/121$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6553.245 ± 1.067 $\chi^2/\text{NDF}: 1670720.5/34$

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

Right Out: 6588.388 ± 1.061 $\chi^2/\text{NDF}: 2167824.4/38$

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

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

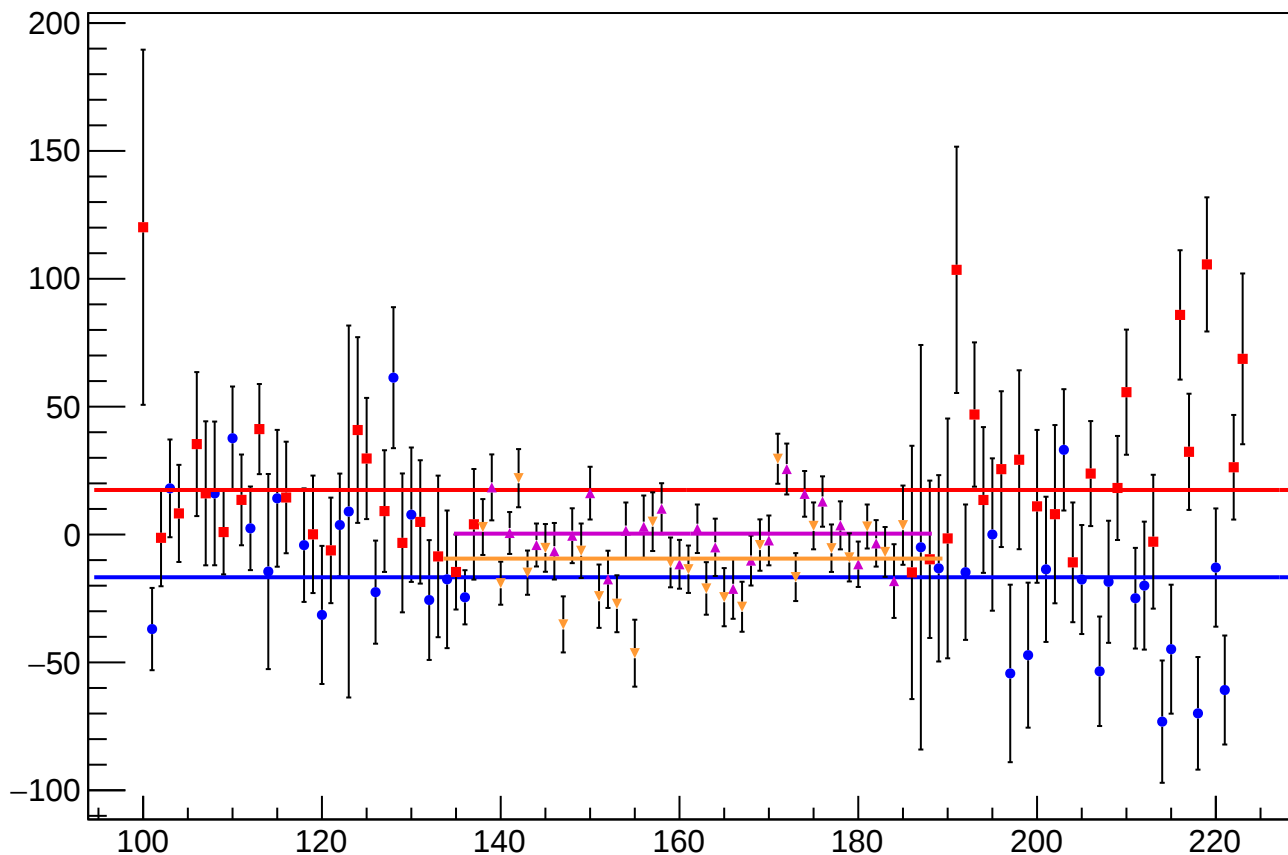
Right: 6570.915 ± 0.752 $\chi^2/\text{NDF}: 3839090.2/73$

In: 6756.236 ± 0.799 $\chi^2/\text{NDF}: 2278259.9/57$

Out: 6802.419 ± 0.787 $\chi^2/\text{NDF}: 2645117.6/63$

All: 6779.656 ± 0.561 $\chi^2/\text{NDF}: 4925073.5/12$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -16.705 ± 3.838 χ^2/NDF : 54.8/34

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

Right Out: 17.420 ± 3.877 χ^2/NDF : 48.2/38

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

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

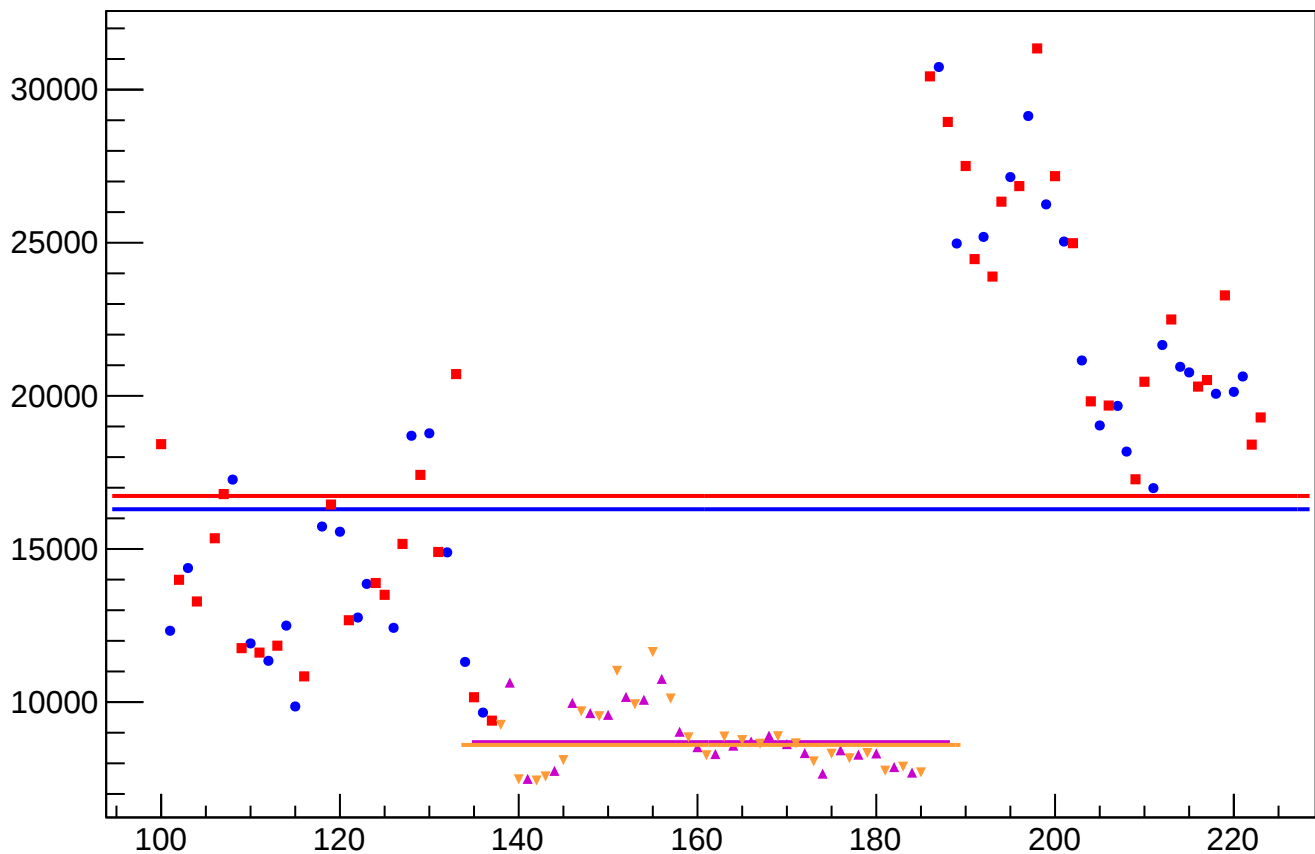
Right: 0.185 ± 2.728 χ^2/NDF : 142.2/73

In: -3.585 ± 1.843 χ^2/NDF : 99.9/57

Out: -3.679 ± 1.792 χ^2/NDF : 144.7/63

All: -3.633 ± 1.285 χ^2/NDF : 244.6/121

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16297.482 $\pm$ 2.714 χ^2 /NDF: 3582041.8/34

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

Right Out: 16731.316 $\pm$ 2.742 χ^2 /NDF: 3946512.7/38

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

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

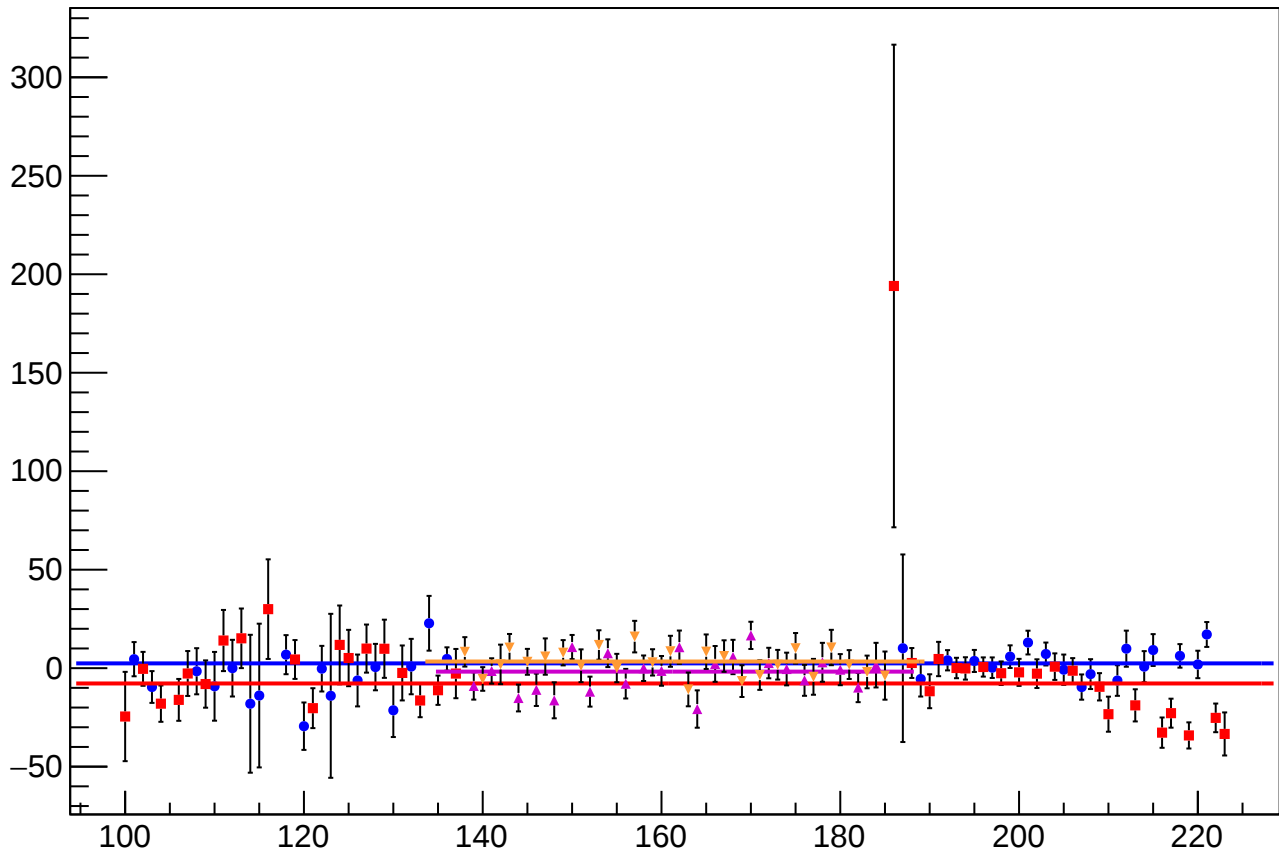
Right: 16512.202 $\pm$ 1.929 χ^2 /NDF: 7541201.3/73

In: 10444.252 $\pm$ 1.303 χ^2 /NDF:9991689.4/57

Out: 10338.999 $\pm$ 1.267 χ^2 /NDF:11298639.8/63

All: 10390.164 $\pm$ 0.908 χ^2 /NDF: 21293682.6

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.429 ± 1.378 χ^2/NDF : 34.6/34

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

Right Out: -7.770 ± 1.354 χ^2/NDF : 84.9/38

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

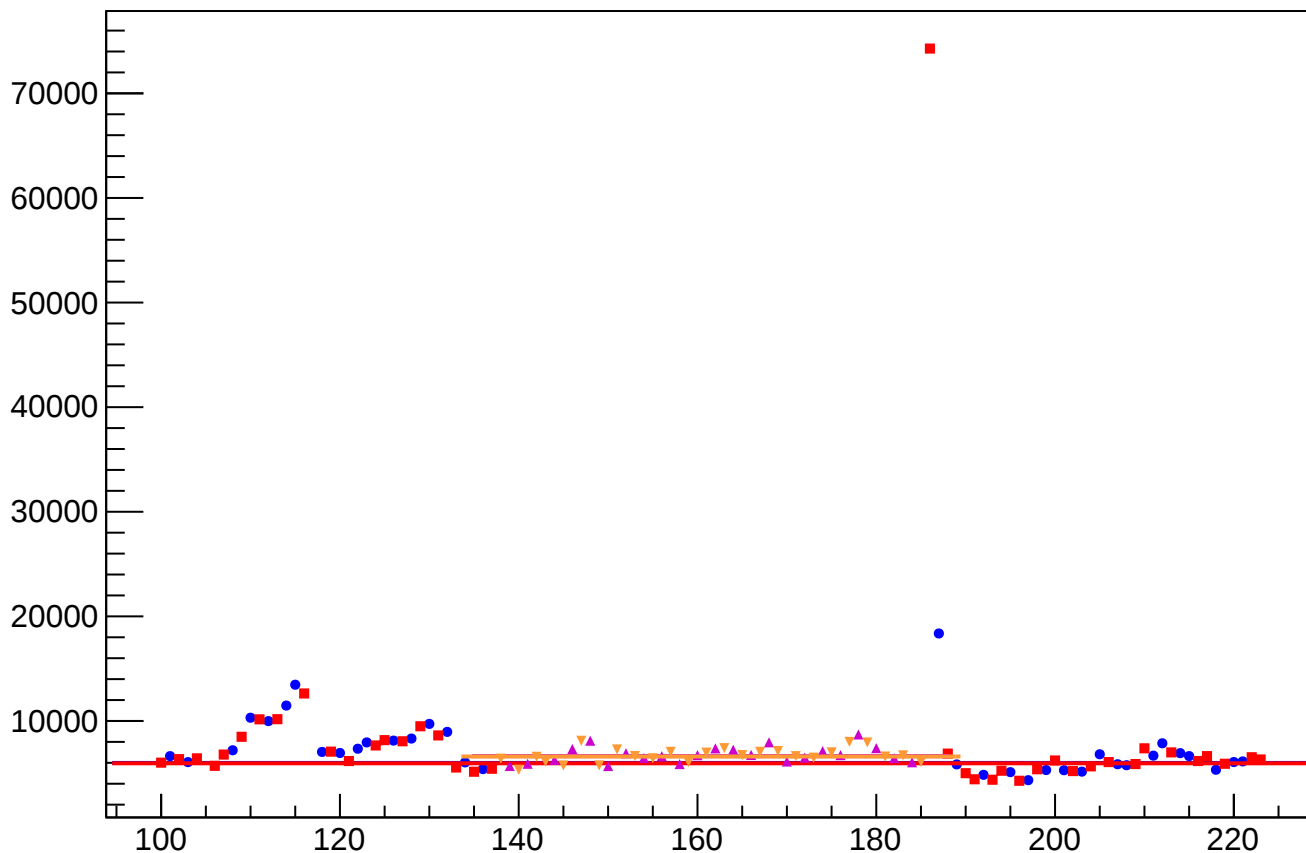
Right: -2.759 ± 0.966 χ^2/NDF : 147.4/73

In: 0.656 ± 1.046 χ^2/NDF : 72.0/57

Out: -2.954 ± 1.020 χ^2/NDF : 131.4/63

All: -1.194 ± 0.730 χ^2/NDF : 209.5/121

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5987.578 $\pm$ 0.974 χ^2/NDF : 1670421.6/34

Left Out: 6603.953 $\pm$ 1.097 χ^2/NDF : 395247.5/24

Right Out: 5952.600 $\pm$ 0.957 χ^2/NDF : 2270406.4/38

Left In: 6637.155 $\pm$ 1.136 χ^2/NDF : 415547.5/22

Left: 6619.974 $\pm$ 0.789 χ^2/NDF : 811236.9/47

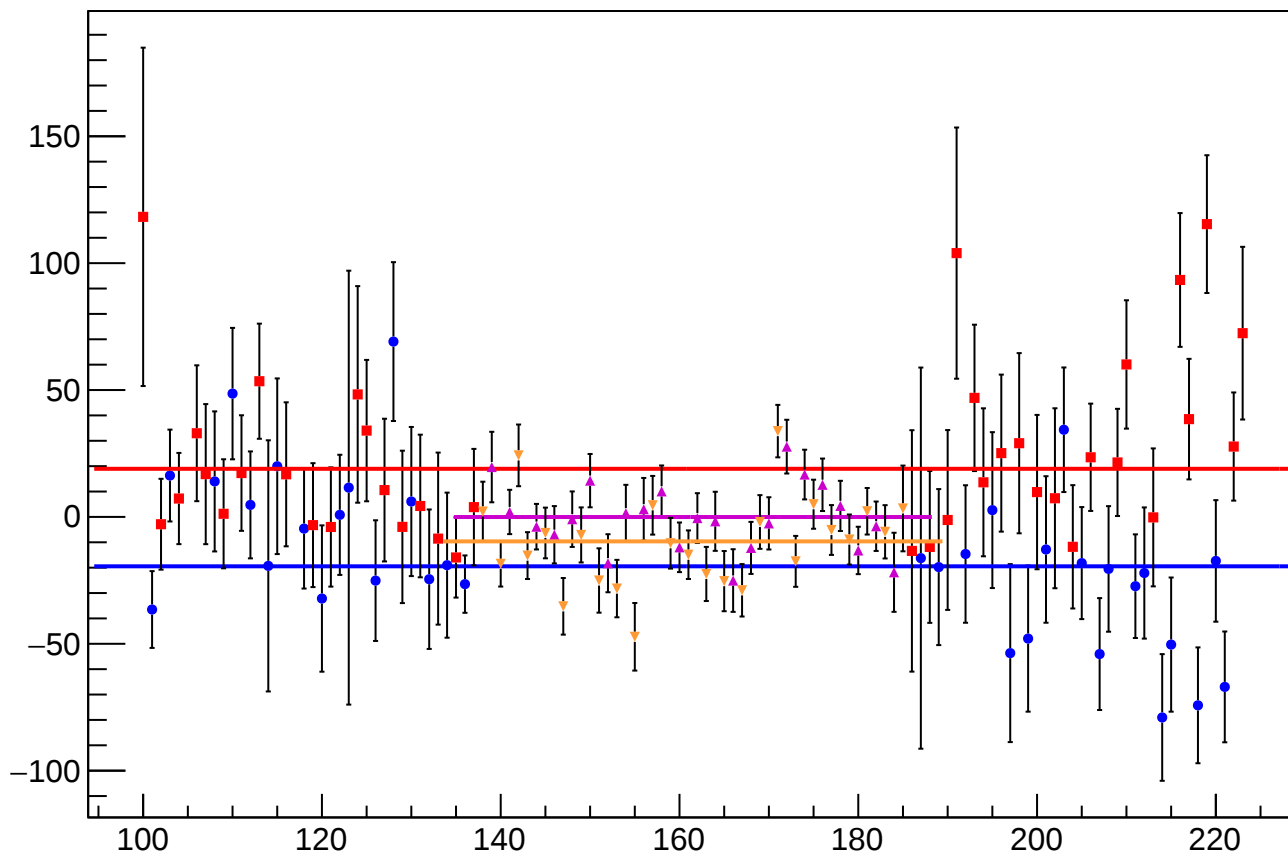
Right: 5969.785 $\pm$ 0.683 χ^2/NDF : 3941483.8/73

In: 6262.740 $\pm$ 0.740 χ^2/NDF : 2274326.9/57

Out: 6234.114 $\pm$ 0.721 χ^2/NDF : 2865726.2/63

All: 6248.071 $\pm$ 0.516 χ^2/NDF : 5140820.8/12

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -19.467 ± 4.085 $\chi^2/\text{NDF}: 54.4/34$

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

Right Out: 18.960 ± 4.161 $\chi^2/\text{NDF}: 51.7/38$

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

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

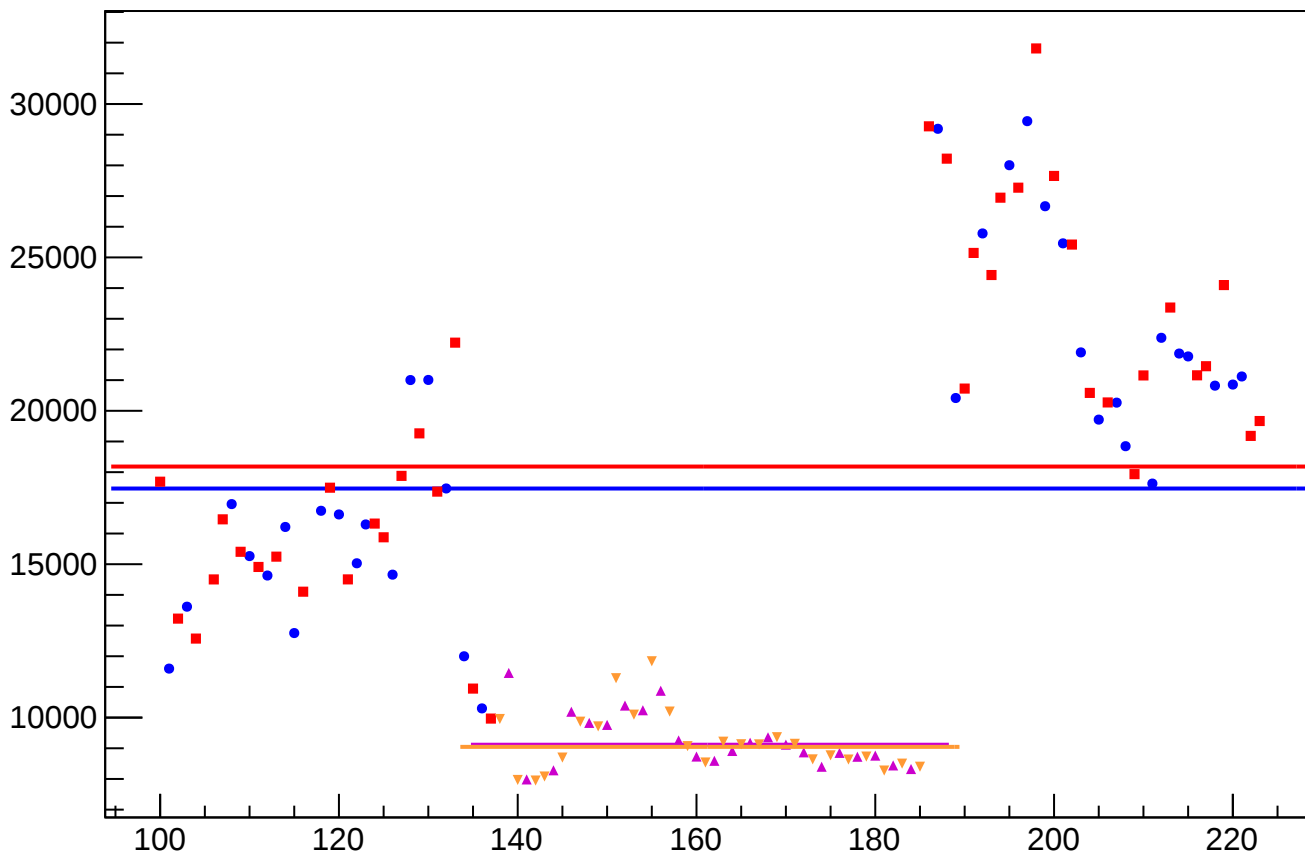
Right: -0.610 ± 2.915 $\chi^2/\text{NDF}: 149.5/73$

In: -4.410 ± 1.937 $\chi^2/\text{NDF}: 102.7/57$

Out: -3.739 ± 1.890 $\chi^2/\text{NDF}: 149.1/63$

All: -4.066 ± 1.353 $\chi^2/\text{NDF}: 251.8/121$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17466.865 $\pm$ 2.888 χ^2 /NDF: 2999393.9/34

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

Right Out: 18183.225 $\pm$ 2.943 χ^2 /NDF: 3028419.6/38

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

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

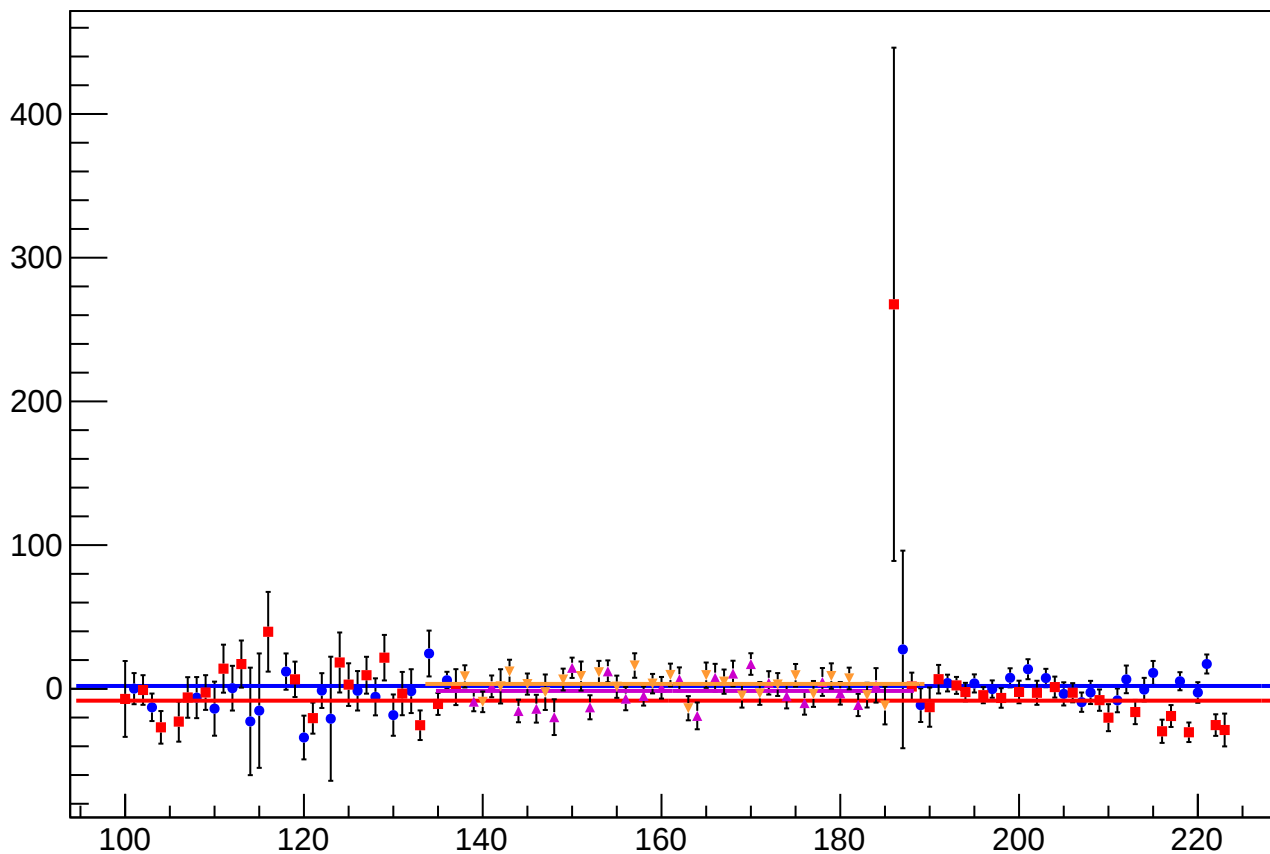
Right: 17818.385 $\pm$ 2.061 χ^2 /NDF: 6057996.7/73

In: 10993.715 $\pm$ 1.370 χ^2 /NDF:9751364.8/57

Out: 10931.053 $\pm$ 1.337 χ^2 /NDF:11009719.8/63

All: 10961.618 $\pm$ 0.957 χ^2 /NDF: 20762156.7

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.969 ± 1.513 χ^2/NDF : 34.2/34

Left Out: 3.387 ± 1.668 χ^2/NDF : 19.4/24

Right Out: -8.256 ± 1.505 χ^2/NDF : 69.6/38

Left In: -1.479 ± 1.710 χ^2/NDF : 36.7/22

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

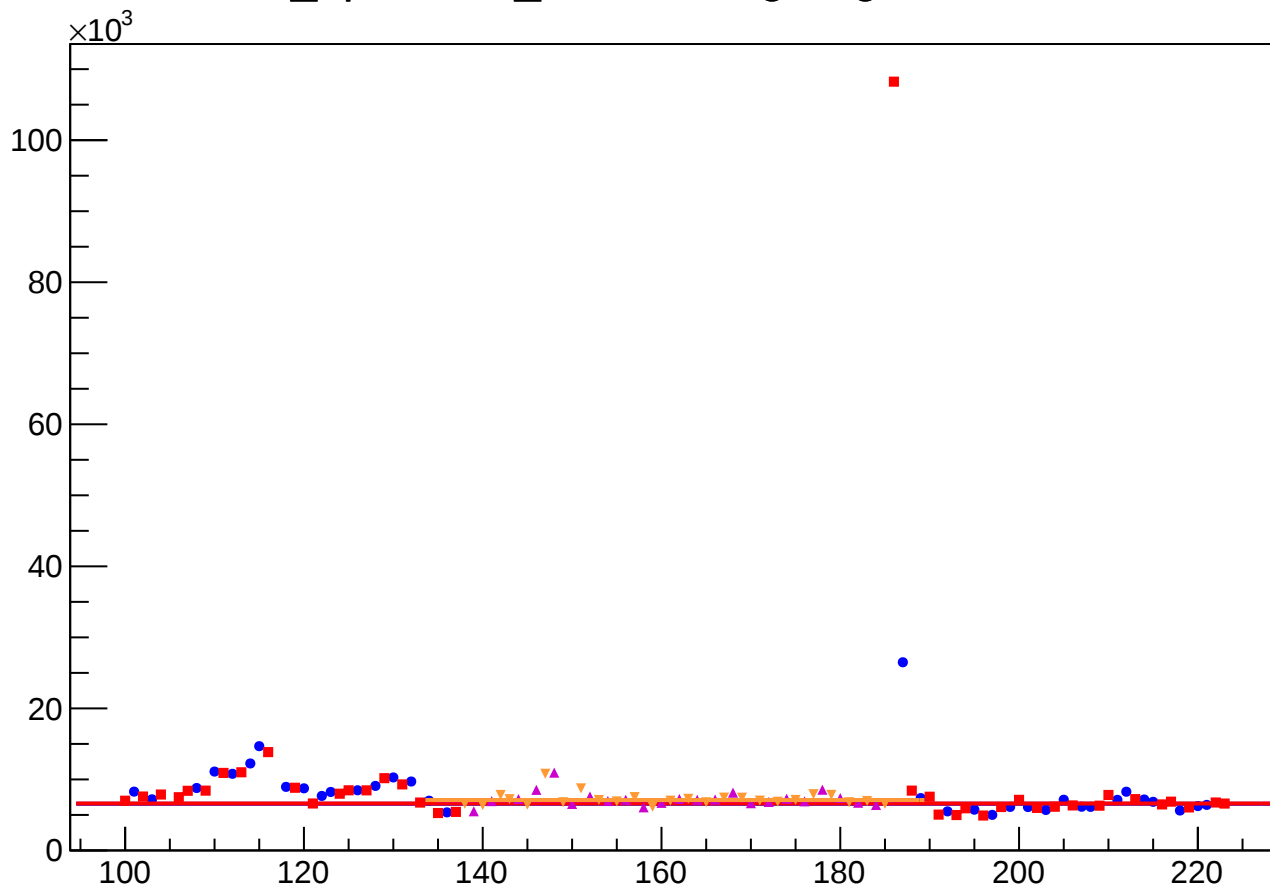
Right: -3.170 ± 1.067 χ^2/NDF : 126.7/73

In: 0.455 ± 1.133 χ^2/NDF : 73.2/57

Out: -3.029 ± 1.118 χ^2/NDF : 115.8/63

All: -1.311 ± 0.796 χ^2/NDF : 193.8/121

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6572.135+/-1.070 χ^2/NDF : 1675674.4/34

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

Right Out: 6609.849+/-1.065 χ^2/NDF : 2171860.4/38

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

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

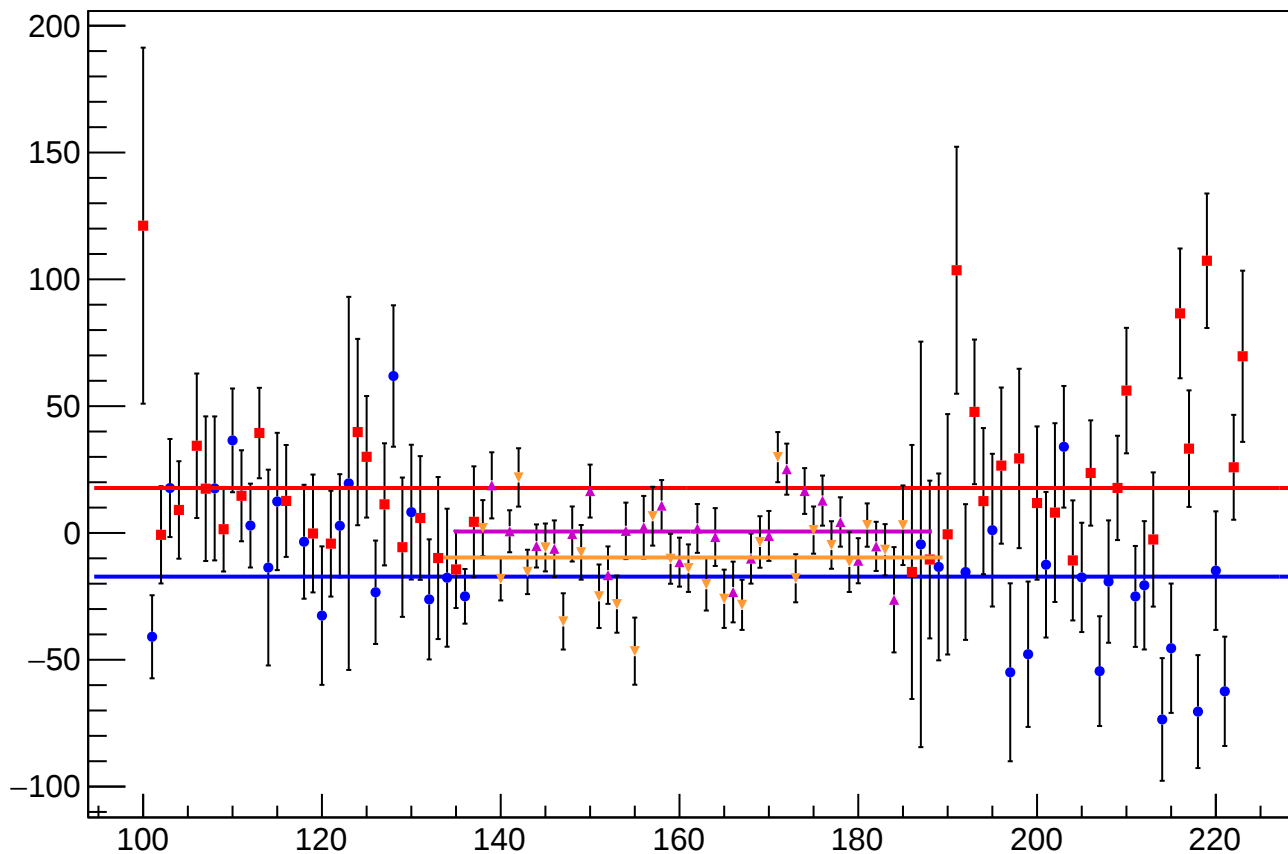
Right: 6591.092+/-0.755 χ^2/NDF : 3848159.0/73

In: 6780.807+/-0.801 χ^2/NDF : 2279679.4/57

Out: 6828.272+/-0.790 χ^2/NDF : 2647573.3/63

All: 6804.873+/-0.563 χ^2/NDF : 4929031.3/12

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -17.217 ± 3.886 $\chi^2/\text{NDF}: 55.3/34$

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

Right Out: 17.727 ± 3.927 $\chi^2/\text{NDF}: 47.2/38$

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

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

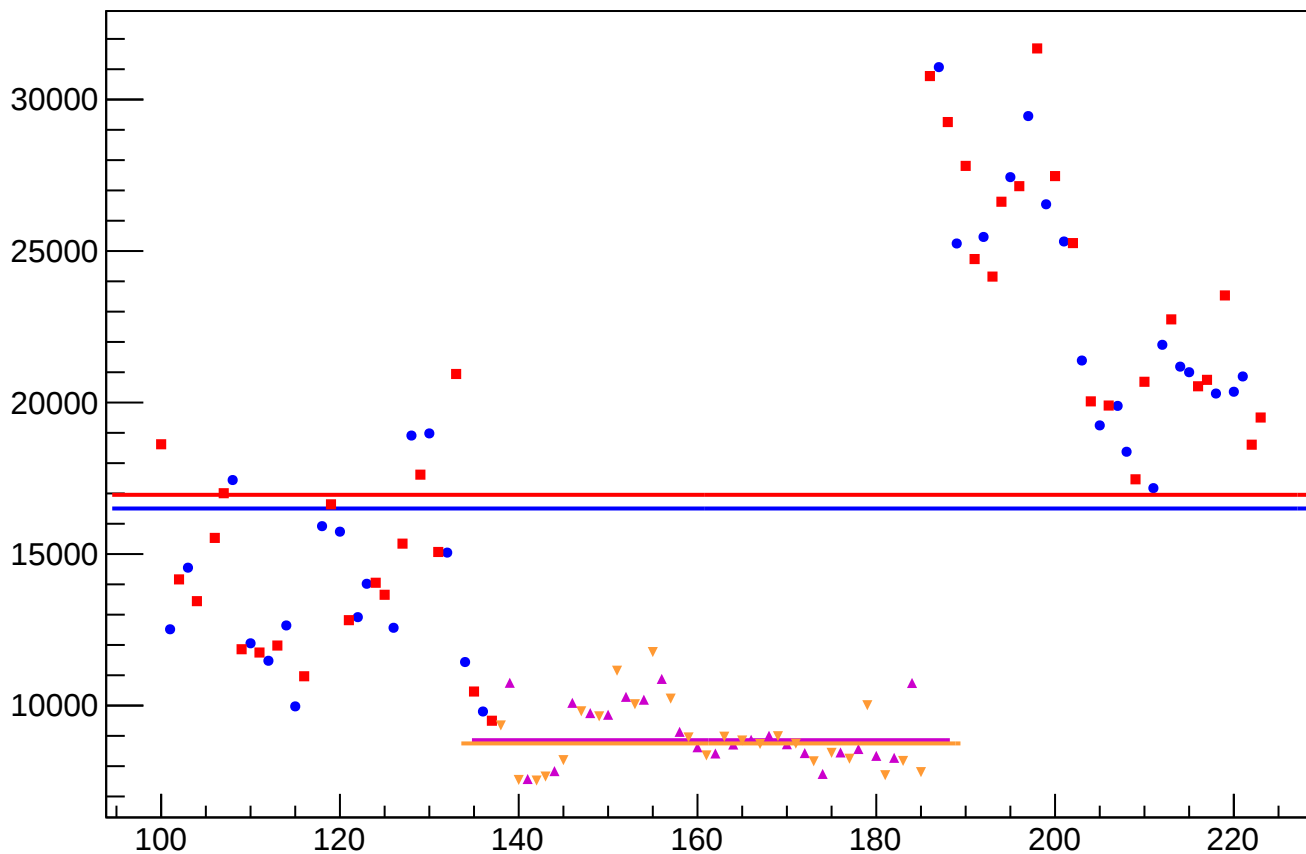
Right: 0.069 ± 2.762 $\chi^2/\text{NDF}: 142.5/73$

In: -3.585 ± 1.877 $\chi^2/\text{NDF}: 101.1/57$

Out: -3.756 ± 1.825 $\chi^2/\text{NDF}: 143.3/63$

All: -3.673 ± 1.308 $\chi^2/\text{NDF}: 244.4/121$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16503.377 ± 2.748 $\chi^2/\text{NDF}: 3555715.7/34$

Left Out: 8750.420 ± 1.457 $\chi^2/\text{NDF}: 463880.1/24$

Right Out: 16954.785 ± 2.777 $\chi^2/\text{NDF}: 3903509.9/38$

Left In: 8857.329 ± 1.516 $\chi^2/\text{NDF}: 361778.8/22$

Left: 8801.764 ± 1.050 $\chi^2/\text{NDF}: 828244.3/47$

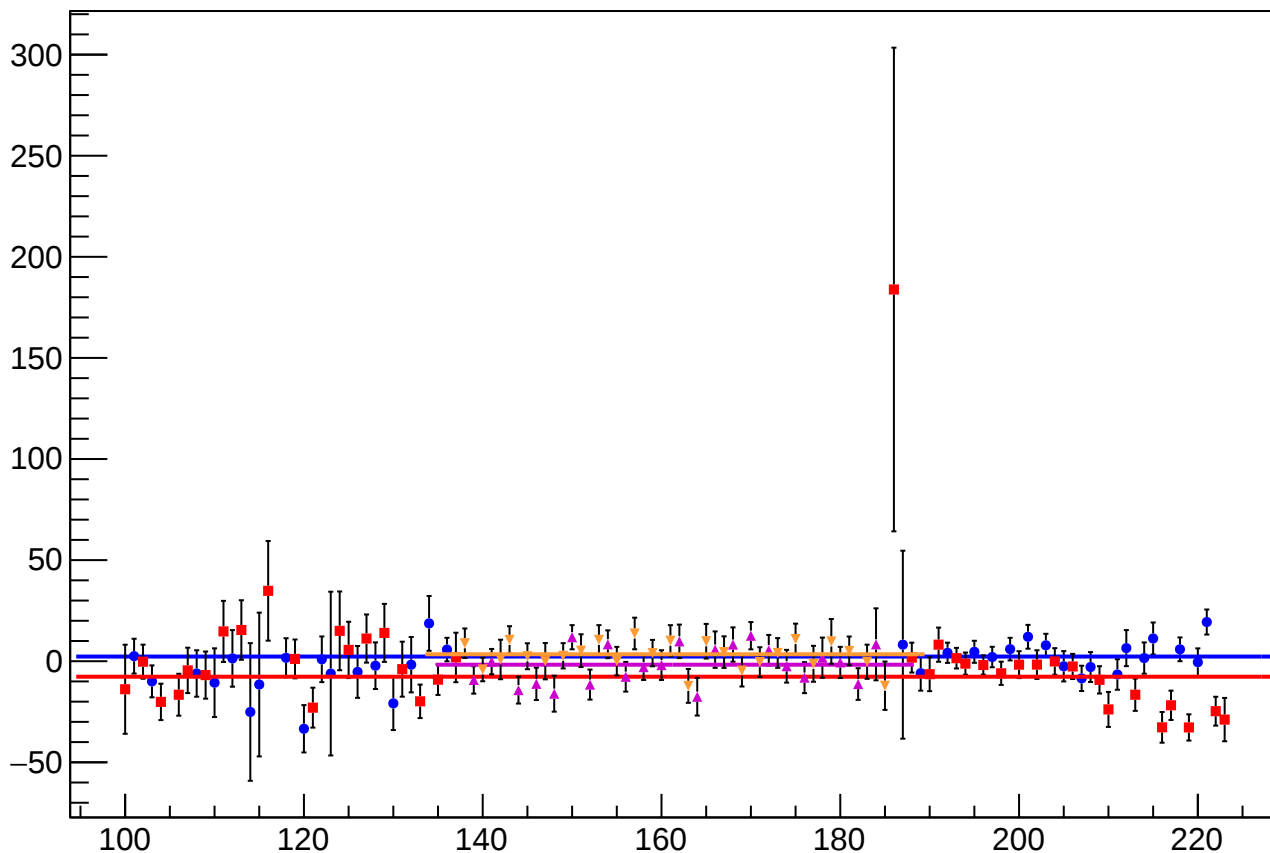
Right: 16726.683 ± 1.953 $\chi^2/\text{NDF}: 7472576.5/73$

In: 10641.272 ± 1.327 $\chi^2/\text{NDF}: 9854021.1/57$

Out: 10521.424 ± 1.290 $\chi^2/\text{NDF}: 11211149.6/63$

All: 10579.655 ± 0.925 $\chi^2/\text{NDF}: 21069362.8$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.307 $\pm$ 1.345 χ^2/NDF : 39.5/34

Left Out: 3.433 $\pm$ 1.526 χ^2/NDF : 16.2/24

Right Out: -7.664 $\pm$ 1.321 χ^2/NDF : 85.9/38

Left In: -1.734 $\pm$ 1.586 χ^2/NDF : 33.6/22

Left: 0.949 $\pm$ 1.099 χ^2/NDF : 55.3/47

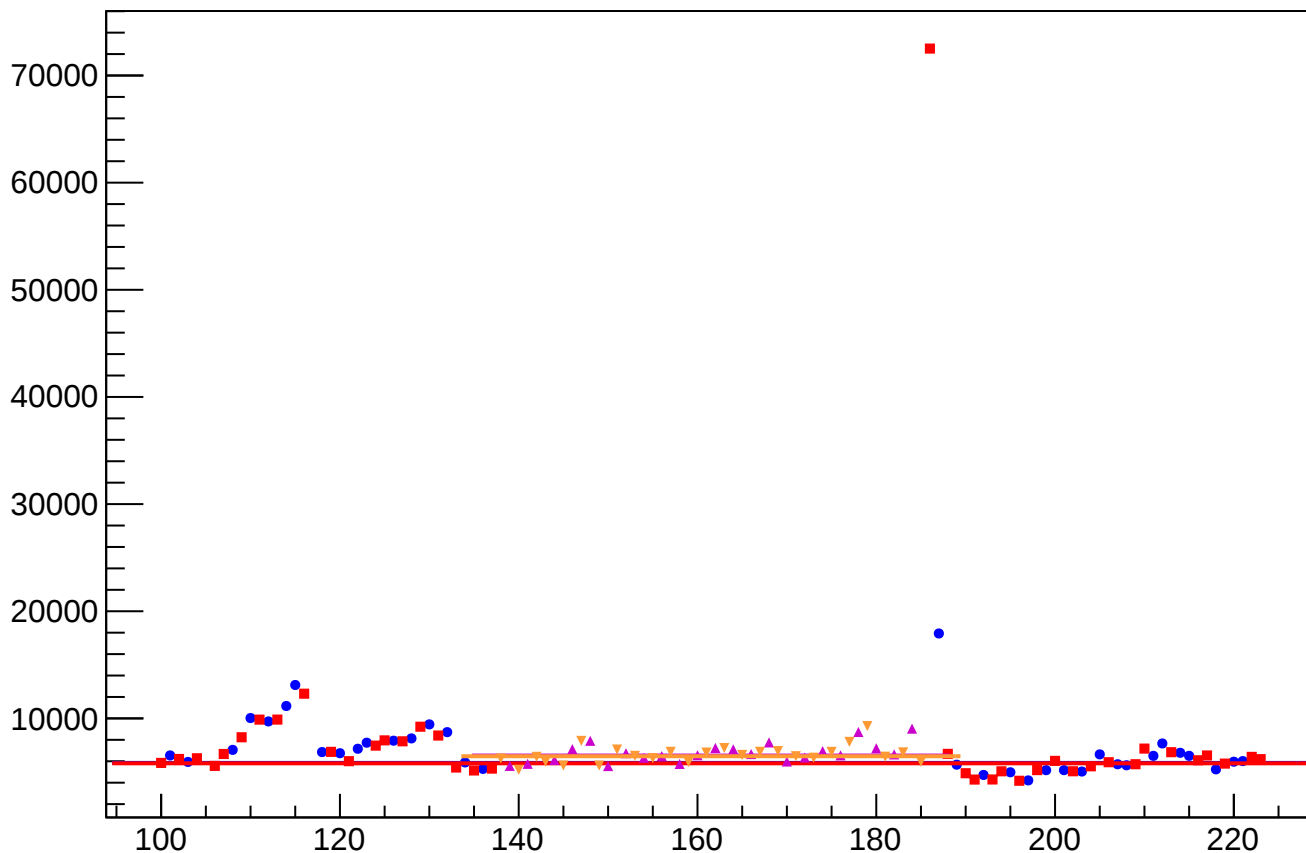
Right: -2.768 $\pm$ 0.943 χ^2/NDF : 153.3/73

In: 0.616 $\pm$ 1.026 χ^2/NDF : 76.8/57

Out: -2.908 $\pm$ 0.999 χ^2/NDF : 132.3/63

All: -1.193 $\pm$ 0.716 χ^2/NDF : 215.2/121

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5844.859 $\pm$ 0.951 χ^2 /NDF: 1675970.2/34

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

Right Out: 5807.964 $\pm$ 0.934 χ^2 /NDF: 2268527.6/38

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

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

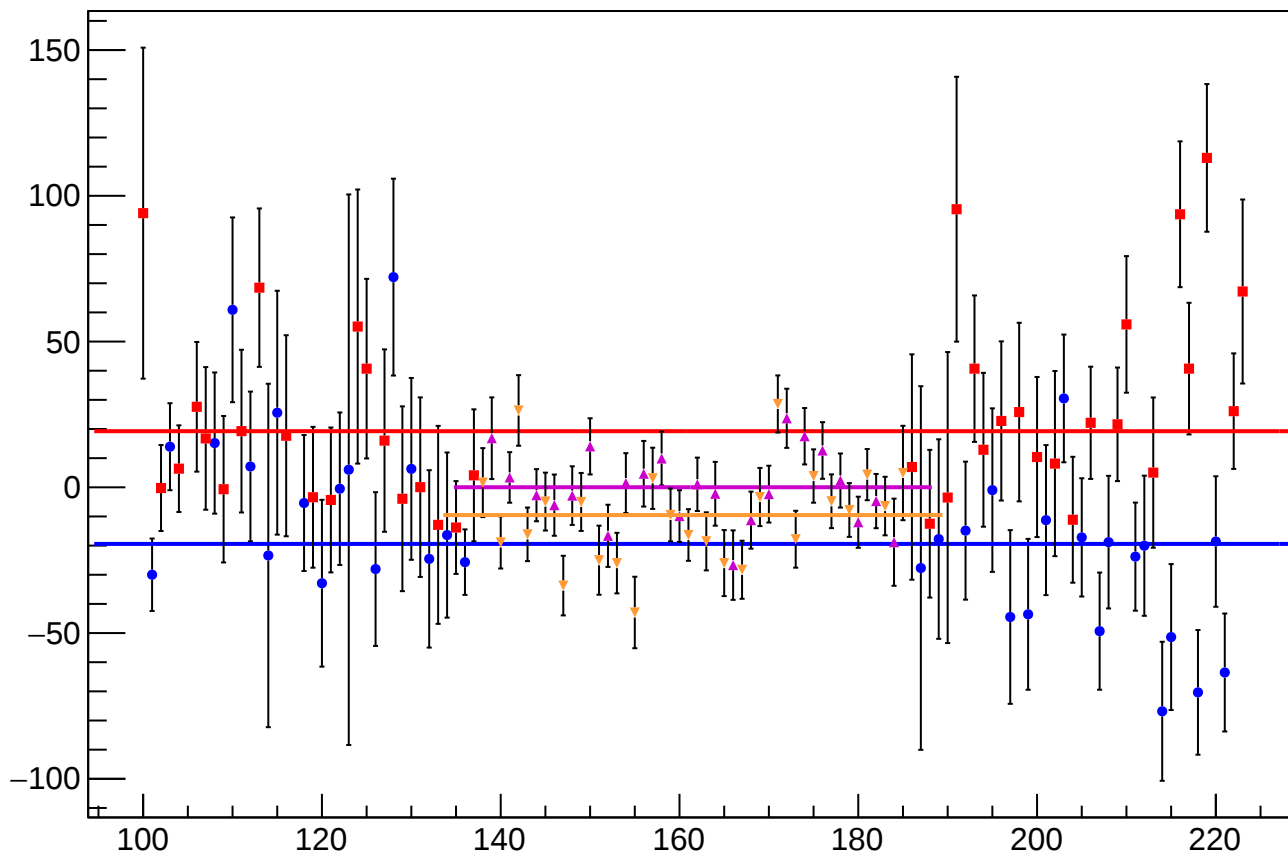
Right: 5826.081 $\pm$ 0.667 χ^2 /NDF: 3945263.4/73

In: 6131.974 $\pm$ 0.725 χ^2 /NDF: 2358335.1/57

Out: 6091.251 $\pm$ 0.706 χ^2 /NDF: 2970160.6/63

All: 6111.069 $\pm$ 0.506 χ^2 /NDF: 5330113.5/12

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -19.414 $\pm$ 3.889 χ^2/NDF : 53.6/34

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

Right Out: 19.256 $\pm$ 3.978 χ^2/NDF : 54.1/38

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

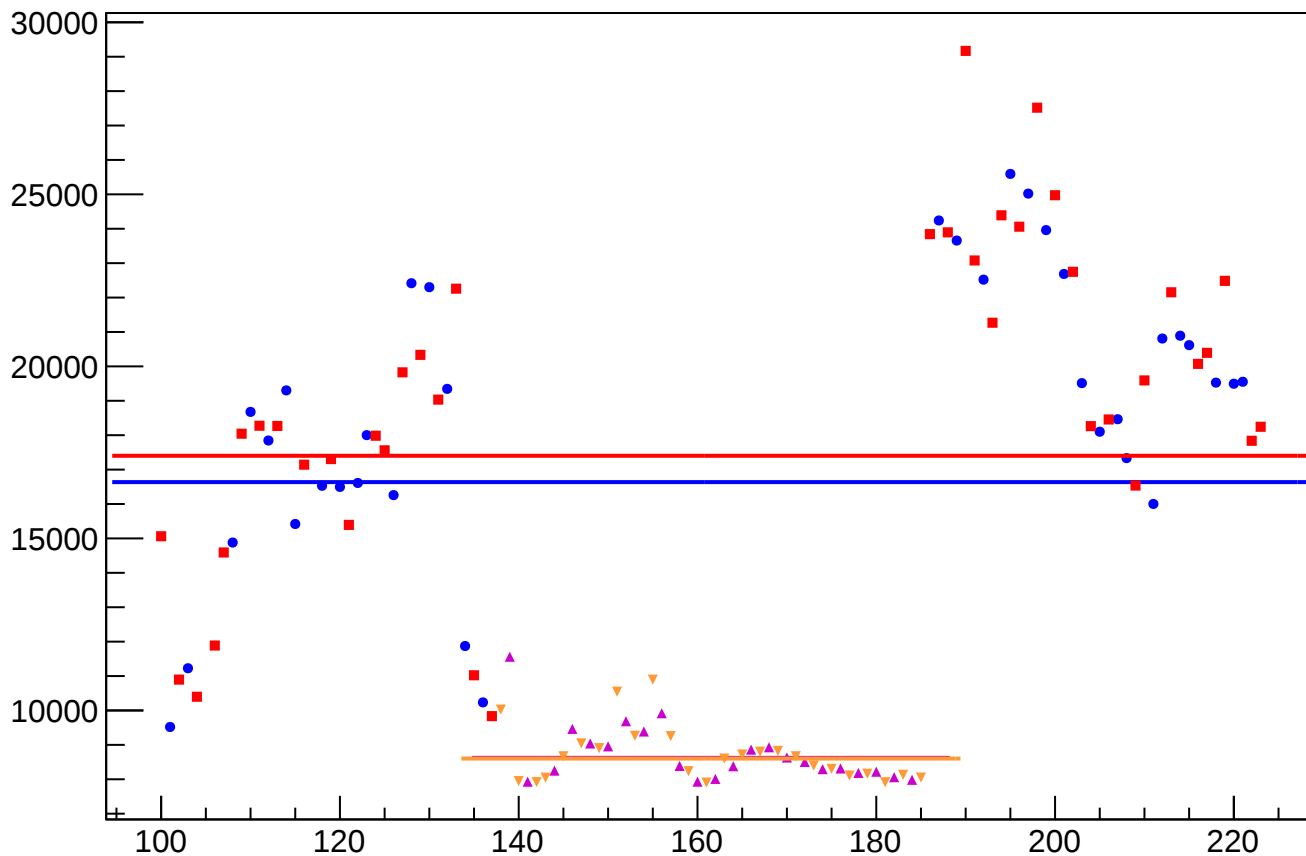
Right: -0.516 $\pm$ 2.781 χ^2/NDF : 156.0/73

In: -4.297 $\pm$ 1.834 χ^2/NDF : 102.9/57

Out: -3.650 $\pm$ 1.798 χ^2/NDF : 155.4/63

All: -3.967 $\pm$ 1.284 χ^2/NDF : 258.3/121

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16636.522 ± 2.750 $\chi^2/\text{NDF}: 3017650.3/34$

Left Out: 8601.926 ± 1.425 $\chi^2/\text{NDF}: 248903.5/24$

Right Out: 17402.119 ± 2.813 $\chi^2/\text{NDF}: 2927128.9/38$

Left In: 8621.975 ± 1.471 $\chi^2/\text{NDF}: 230824.4/22$

Left: 8611.634 ± 1.023 $\chi^2/\text{NDF}: 479823.8/47$

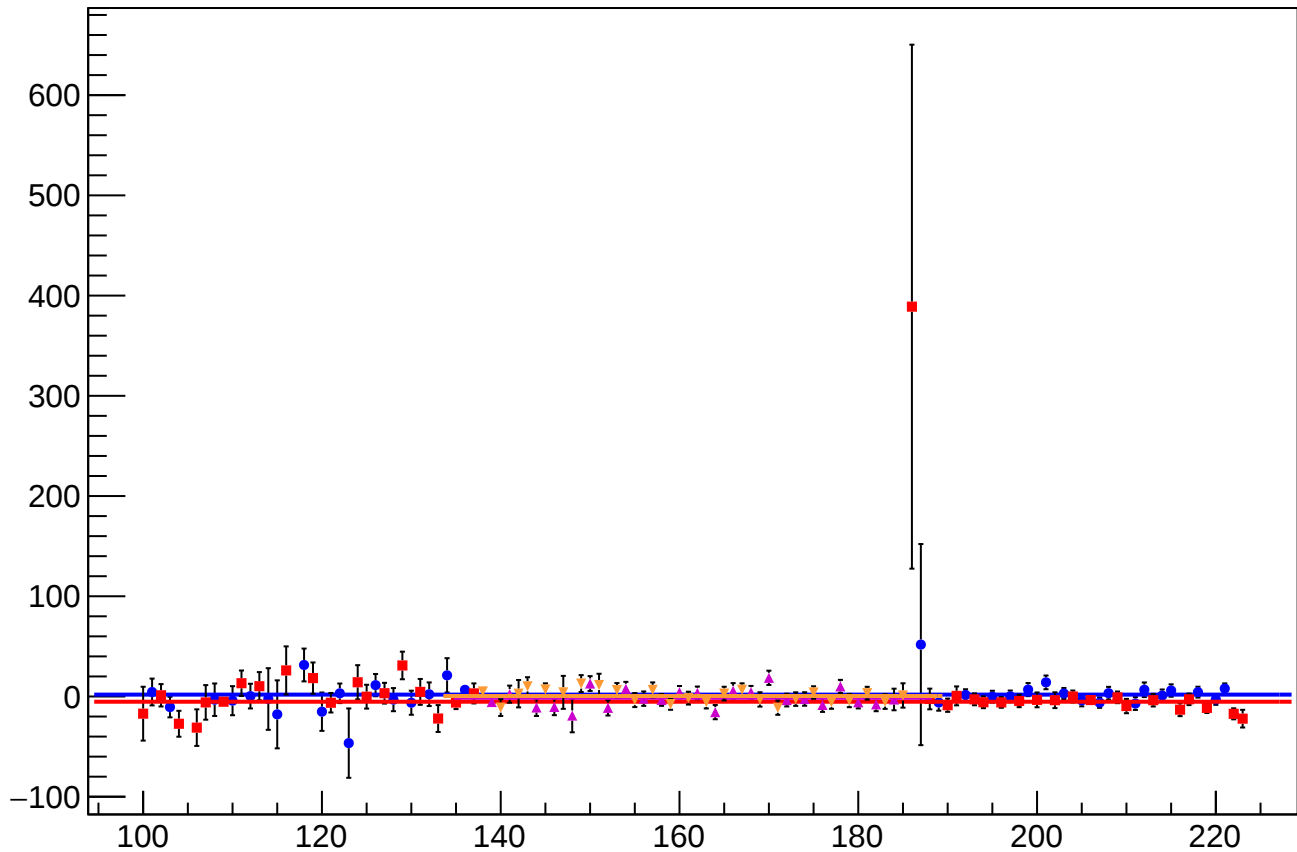
Right: 17010.683 ± 1.966 $\chi^2/\text{NDF}: 5982656.8/73$

In: 10404.346 ± 1.297 $\chi^2/\text{NDF}: 9853001.1/57$

Out: 10399.218 ± 1.271 $\chi^2/\text{NDF}: 10965195.5/63$

All: 10401.731 ± 0.908 $\chi^2/\text{NDF}: 20818204.6$

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.872 ± 1.285 χ^2/NDF : 25.7/34

Left Out: 0.481 ± 1.419 χ^2/NDF : 19.6/24

Right Out: -5.222 ± 1.246 χ^2/NDF : 41.5/38

Left In: -1.298 ± 1.406 χ^2/NDF : 33.0/22

Left: -0.417 ± 0.999 χ^2/NDF : 53.4/47

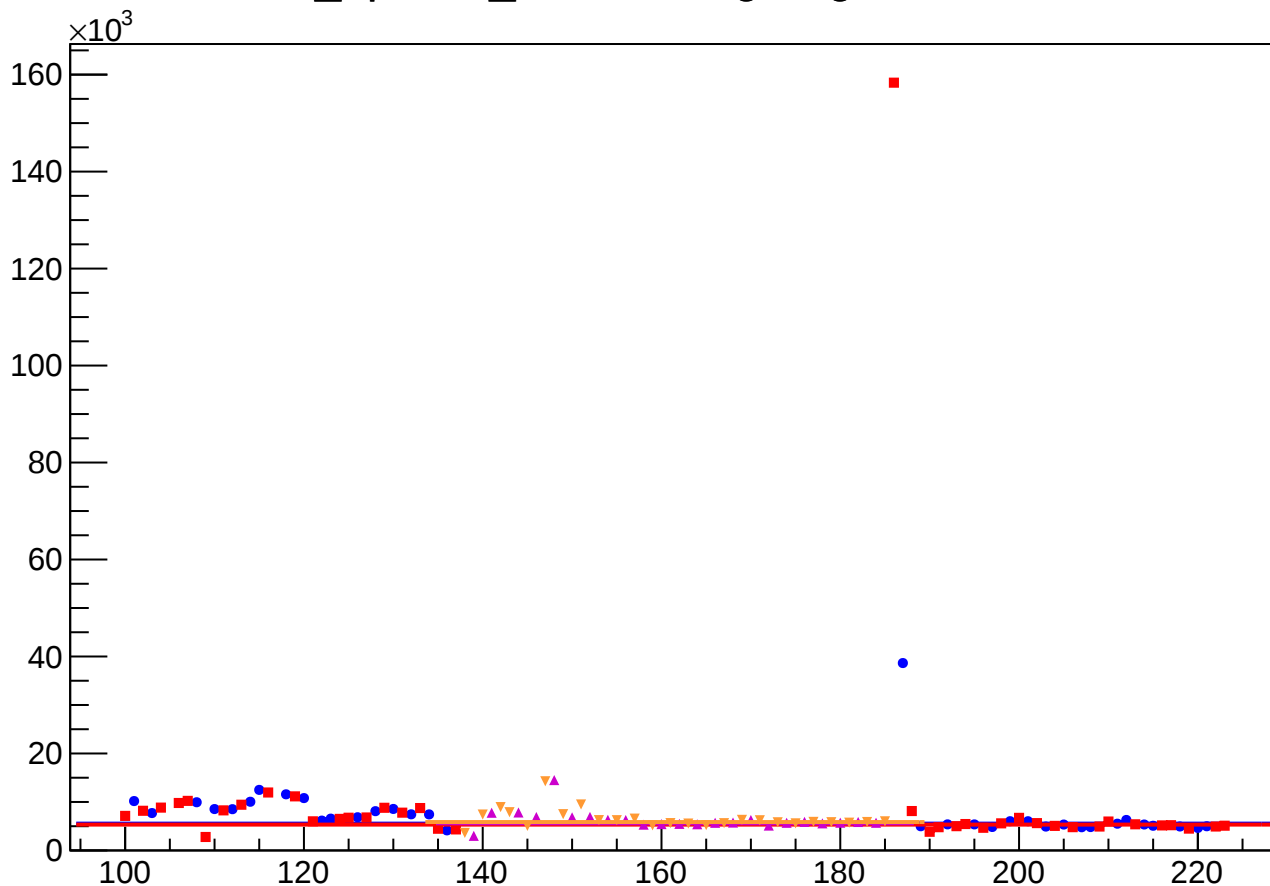
Right: -1.787 ± 0.895 χ^2/NDF : 82.8/73

In: 0.429 ± 0.949 χ^2/NDF : 61.5/57

Out: -2.741 ± 0.936 χ^2/NDF : 70.1/63

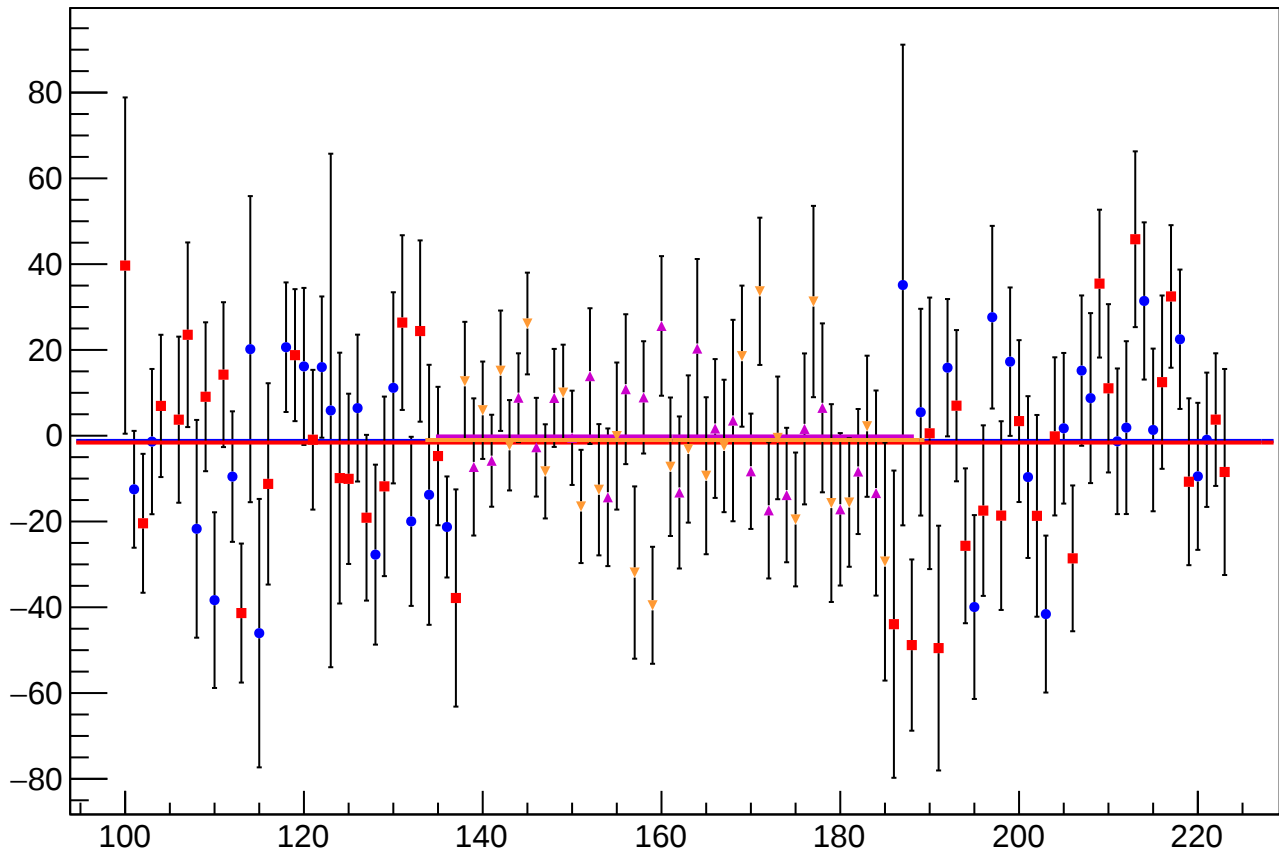
All: -1.177 ± 0.666 χ^2/NDF : 137.3/121

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5533.543 $\pm$ 0.909	χ^2/NDF : 2270536.8/34	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5429.853 $\pm$ 0.633	χ^2/NDF : 5834975.5/73
Right Out: 5332.491 $\pm$ 0.881	χ^2/NDF : 3539204.6/38	In: 5562.374 $\pm$ 0.671	χ^2/NDF : 4362497.1/57
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5561.423 $\pm$ 0.662	χ^2/NDF : 5385826.6/63
		All: 5561.892 $\pm$ 0.471	χ^2/NDF : 9748324.8/12

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.215 ± 3.157 χ^2/NDF : 37.2/34

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

Right Out: -1.600 ± 3.124 χ^2/NDF : 51.9/38

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

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

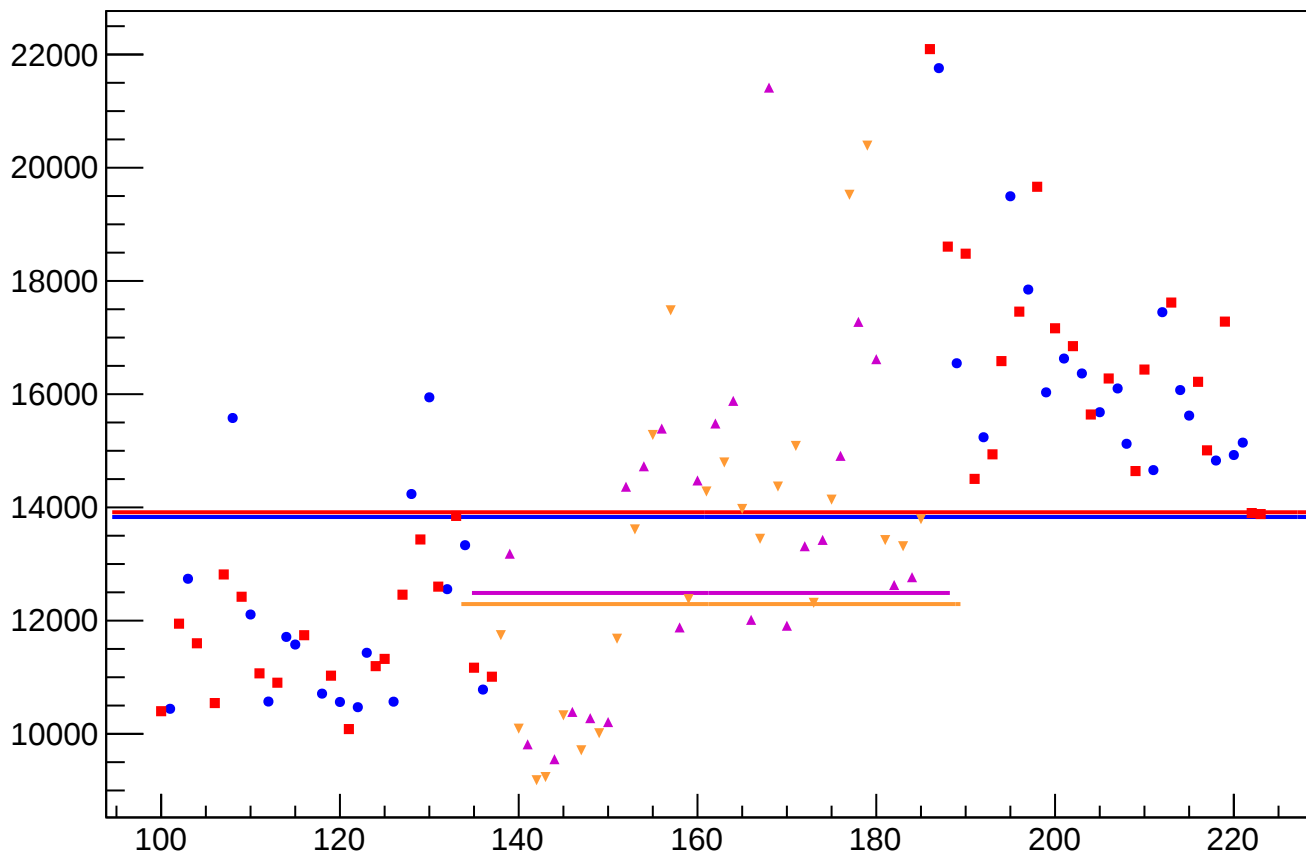
Right: -1.410 ± 2.221 χ^2/NDF : 89.1/73

In: -0.679 ± 2.200 χ^2/NDF : 49.6/57

Out: -1.286 ± 2.142 χ^2/NDF : 85.4/63

All: -0.990 ± 1.535 χ^2/NDF : 135.0/121

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13830.184+/-2.233

χ^2/NDF : 1352305.4/34

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right Out: 13914.254+/-2.209

χ^2/NDF : 1496402.3/38

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Right: 13872.667+/-1.570

χ^2/NDF : 2849424.2/73

In: 13140.082+/-1.556

χ^2/NDF : 2892499.0/57

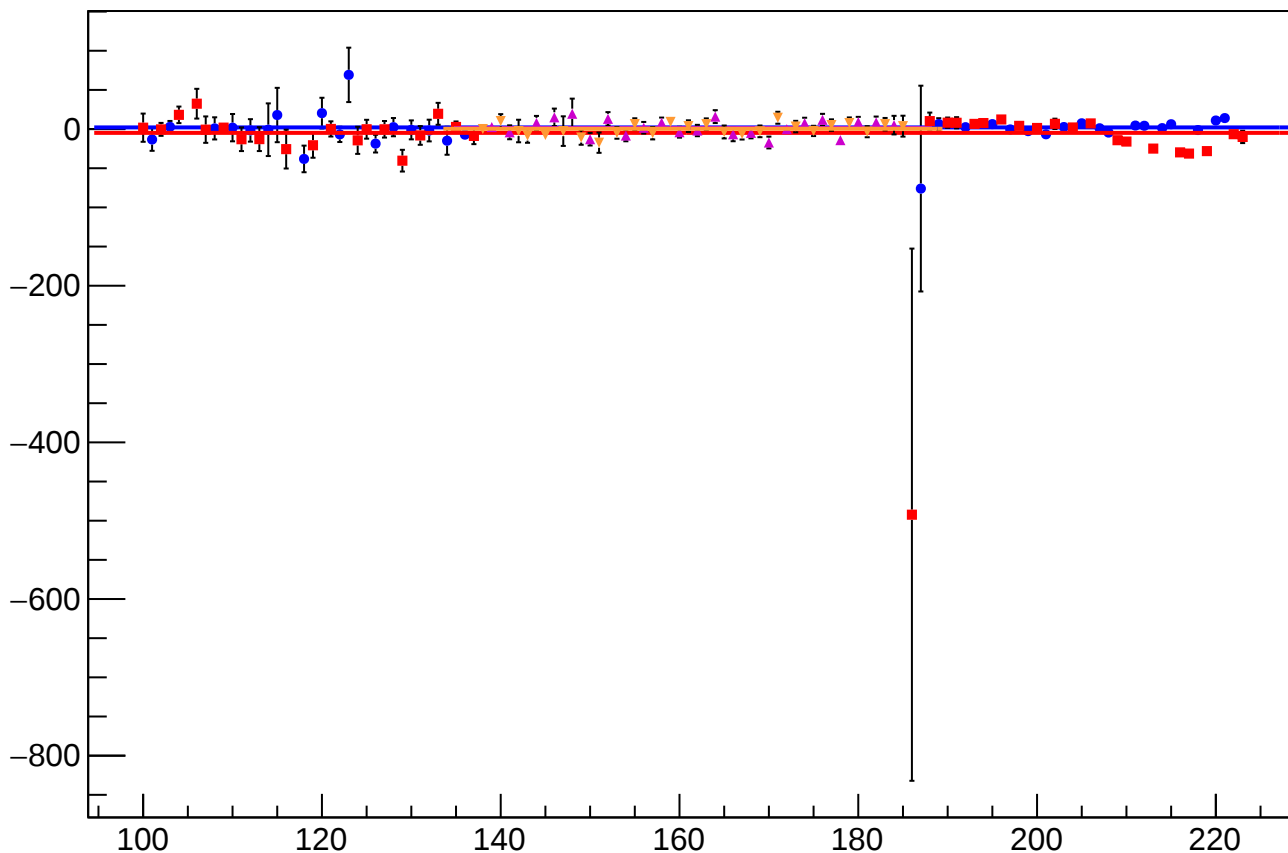
Out: 13054.714+/-1.514

χ^2/NDF : 3284622.5/63

All: 13096.248+/-1.085

χ^2/NDF : 6178667.7/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 2.119 ± 1.068 $\chi^2/\text{NDF}: 41.3/34$

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

Right Out: -4.837 ± 1.075 $\chi^2/\text{NDF}: 177.8/38$

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

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

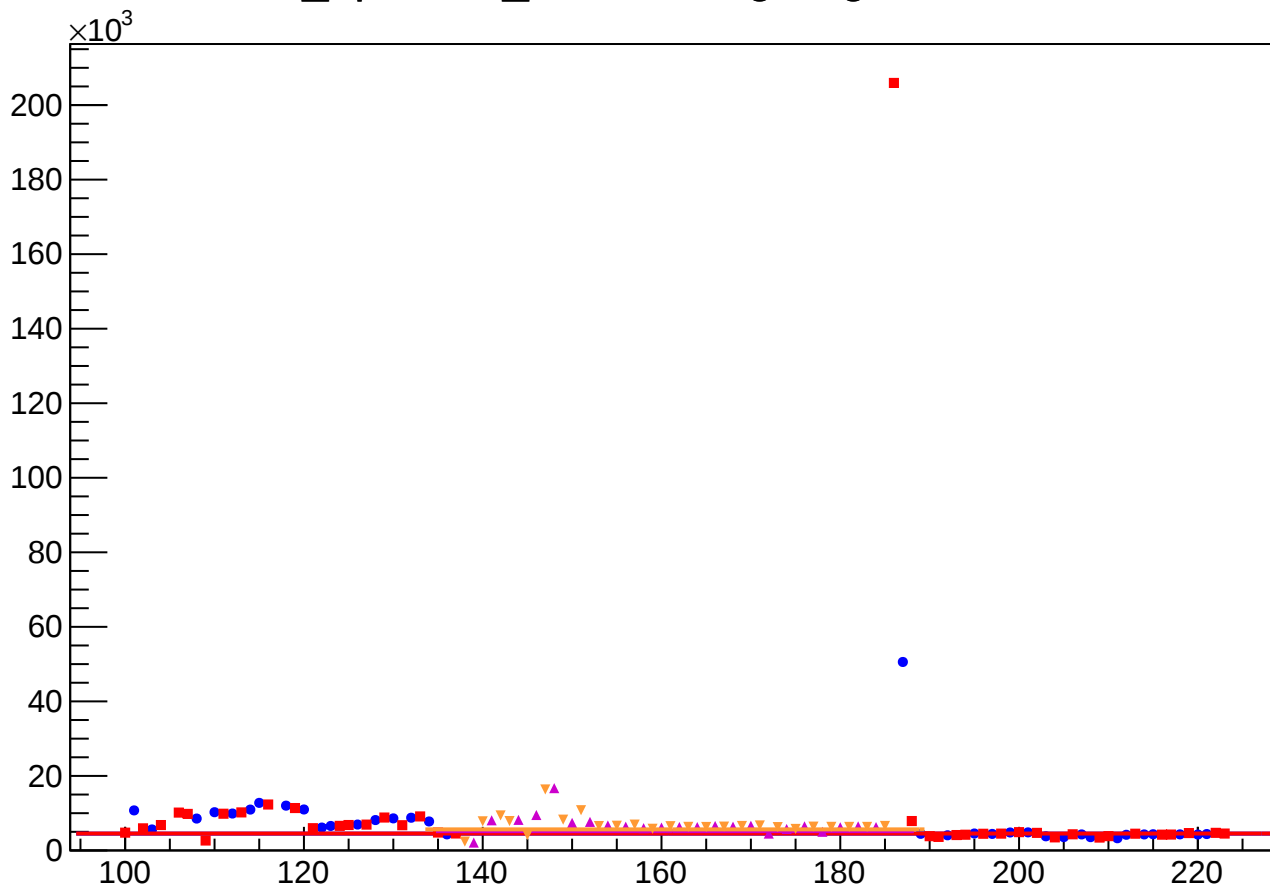
Right: -1.339 ± 0.758 $\chi^2/\text{NDF}: 240.1/73$

In: 1.805 ± 0.846 $\chi^2/\text{NDF}: 75.5/57$

Out: -2.951 ± 0.860 $\chi^2/\text{NDF}: 205.7/63$

All: -0.534 ± 0.603 $\chi^2/\text{NDF}: 296.7/121$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4512.709 $\pm$ 0.756 χ^2/NDF : 3478645.8/34

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

Right Out: 4539.463 $\pm$ 0.760 χ^2/NDF : 3971592.8/38

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

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

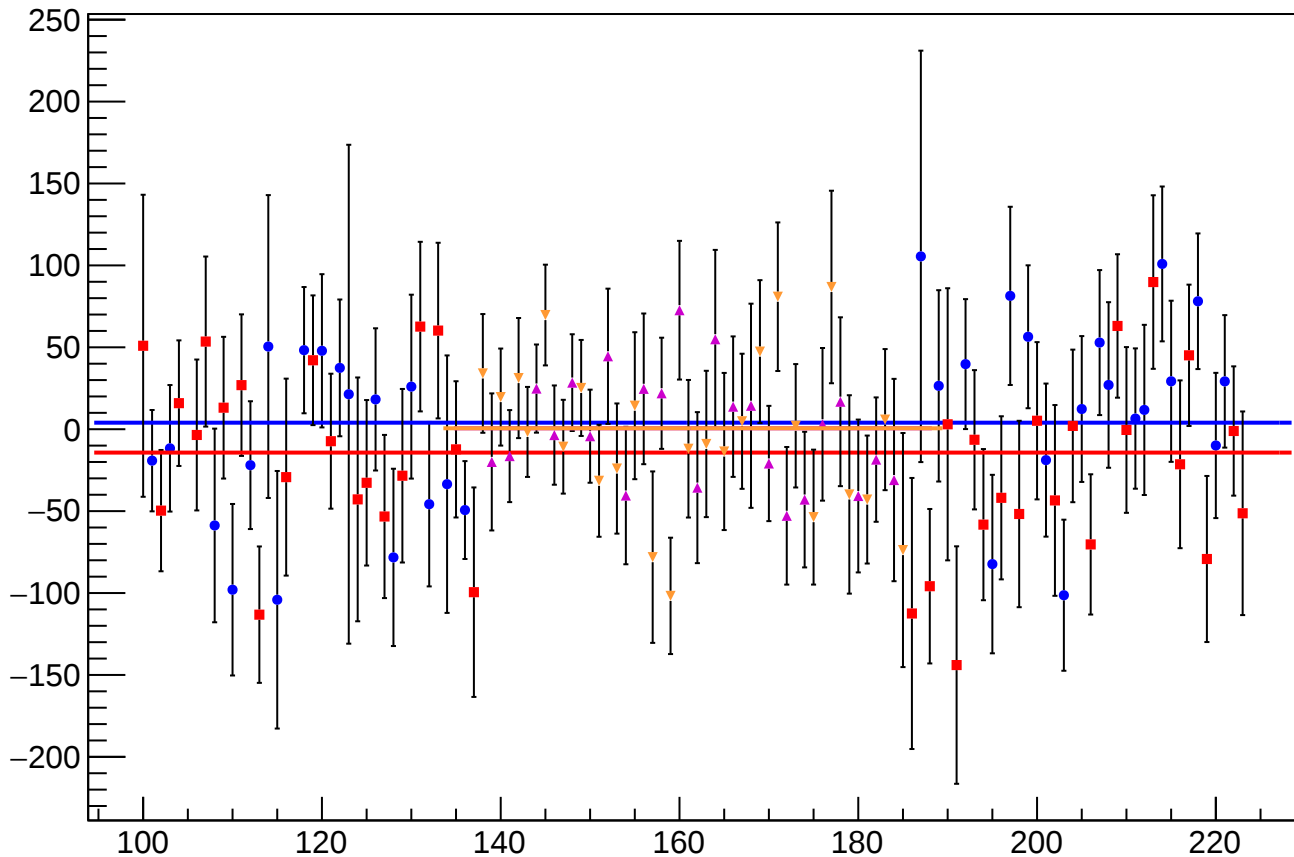
Right: 4526.009 $\pm$ 0.536 χ^2/NDF : 7450861.9/73

In: 4761.793 $\pm$ 0.598 χ^2/NDF : 9120196.7/57

Out: 4940.673 $\pm$ 0.608 χ^2/NDF : 8871233.7/63

All: 4849.772 $\pm$ 0.427 χ^2/NDF : 18035391.1/131

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.989 ± 7.923 χ^2/NDF : 40.8/34

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

Right Out: -14.267 ± 7.838 χ^2/NDF : 42.4/38

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

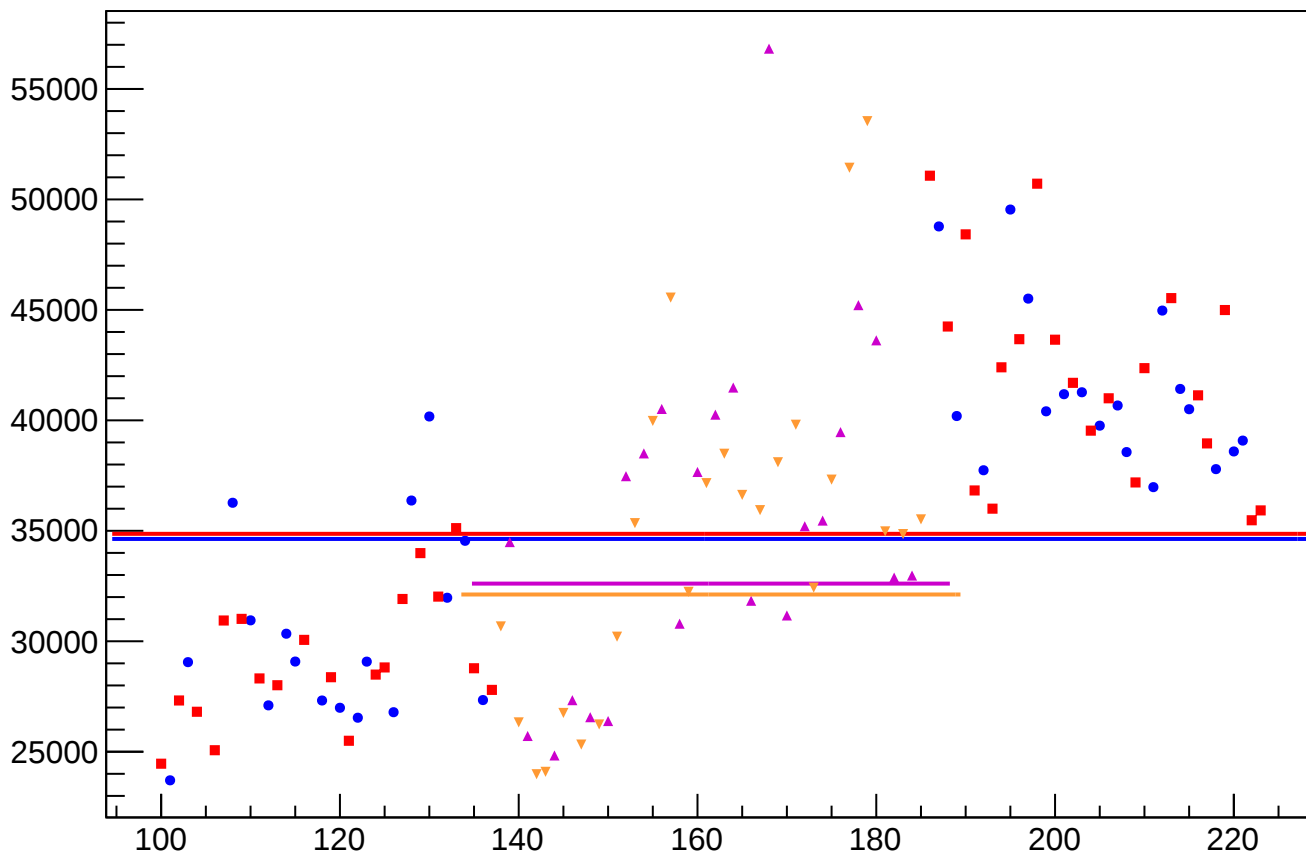
Right: -5.238 ± 5.572 χ^2/NDF : 85.8/73

In: 2.297 ± 5.635 χ^2/NDF : 55.1/57

Out: -6.703 ± 5.489 χ^2/NDF : 75.2/63

All: -2.321 ± 3.932 χ^2/NDF : 131.7/121

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34631.438+/-5.603

χ^2/NDF : 1490795.2/34

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 34863.084+/-5.542

χ^2/NDF : 1607604.6/38

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

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

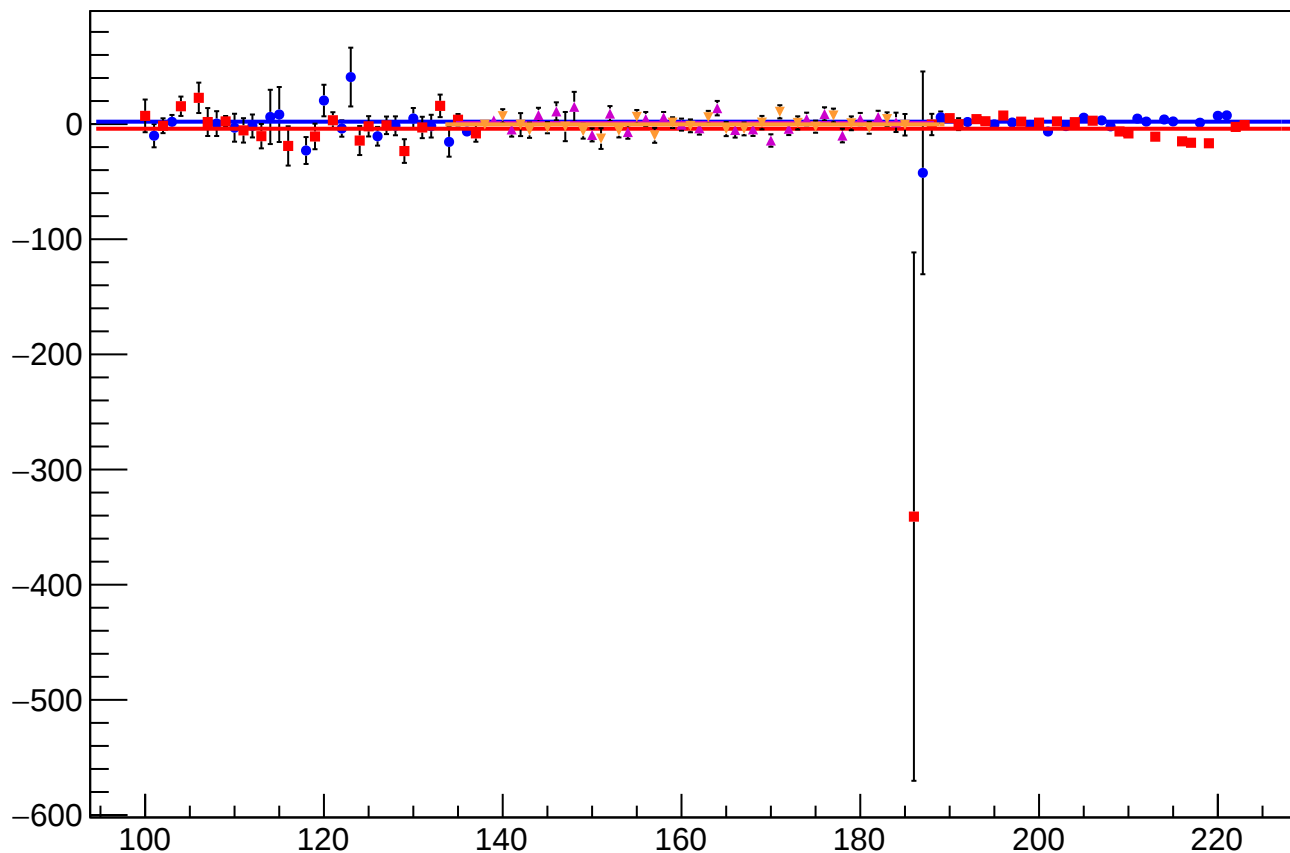
Right: 34748.518+/-3.940 χ^2/NDF : 3099263.8/73

In: 33632.322+/-3.984 χ^2/NDF : 2953607.2/57

Out: 33464.080+/-3.882 χ^2/NDF : 3269408.5/63

All: 33546.005+/-2.780 χ^2/NDF : 6223930.5/130

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 2.063 ± 0.604 $\chi^2/\text{NDF}: 51.1/34$

Left Out: -0.255 ± 1.173 $\chi^2/\text{NDF}: 18.0/24$

Right Out: -4.063 ± 0.632 $\chi^2/\text{NDF}: 168.7/38$

Left In: 0.925 ± 1.154 $\chi^2/\text{NDF}: 36.1/22$

Left: 0.345 ± 0.822 $\chi^2/\text{NDF}: 54.7/47$

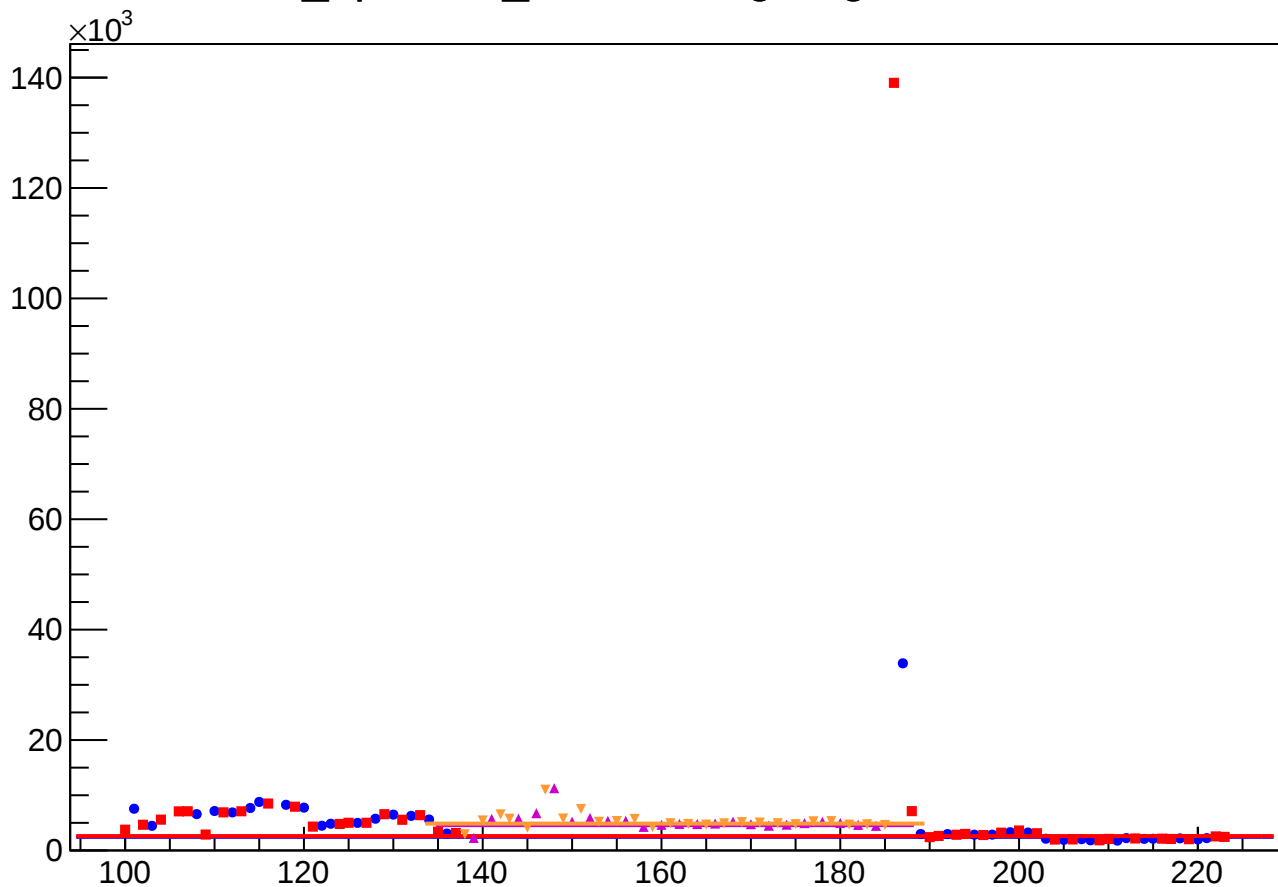
Right: -0.859 ± 0.437 $\chi^2/\text{NDF}: 268.9/73$

In: 1.818 ± 0.535 $\chi^2/\text{NDF}: 87.9/57$

Out: -3.206 ± 0.556 $\chi^2/\text{NDF}: 194.9/63$

All: -0.595 ± 0.386 $\chi^2/\text{NDF}: 325.2/121$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2469.468 ± 0.427 $\chi^2/\text{NDF}: 5720031.2/34$

Left Out: 4866.528 ± 0.829 $\chi^2/\text{NDF}: 1511486.2/24$

Right Out: 2601.105 ± 0.447 $\chi^2/\text{NDF}: 6202753.1/38$

Left In: 4582.193 ± 0.816 $\chi^2/\text{NDF}: 2478681.0/22$

Left: 4722.017 ± 0.582 $\chi^2/\text{NDF}: 4049906.1/47$

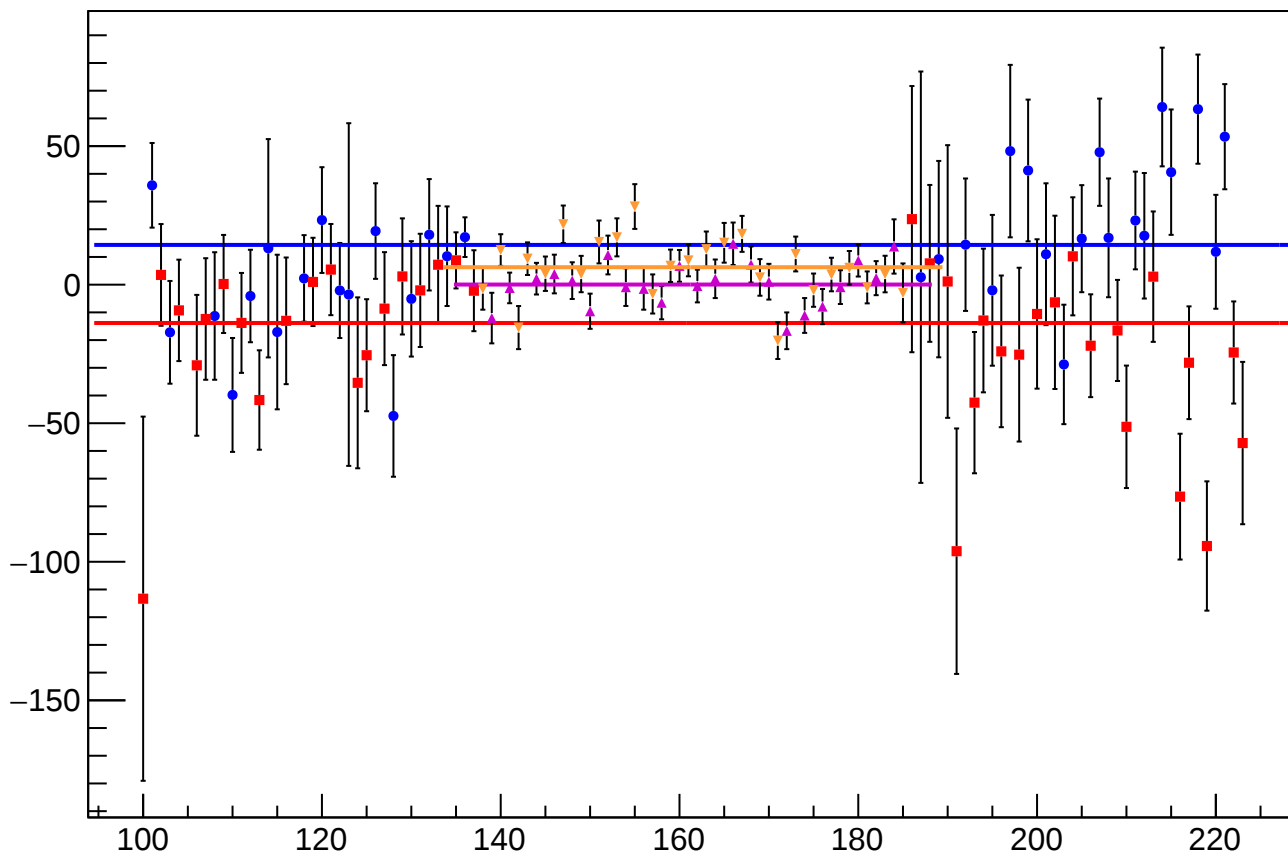
Right: 2532.266 ± 0.309 $\chi^2/\text{NDF}: 11968155.2/73$

In: 2923.558 ± 0.378 $\chi^2/\text{NDF}: 13464200.9/57$

Out: 3110.903 ± 0.393 $\chi^2/\text{NDF}: 13496636.6/63$

All: 3013.536 ± 0.273 $\chi^2/\text{NDF}: 27078687.6/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 14.348 ± 3.241 χ^2/NDF : 53.7/34

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

Right Out: -13.825 ± 3.359 χ^2/NDF : 51.1/38

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

Left: 3.279 ± 0.944 χ^2/NDF : 97.7/47

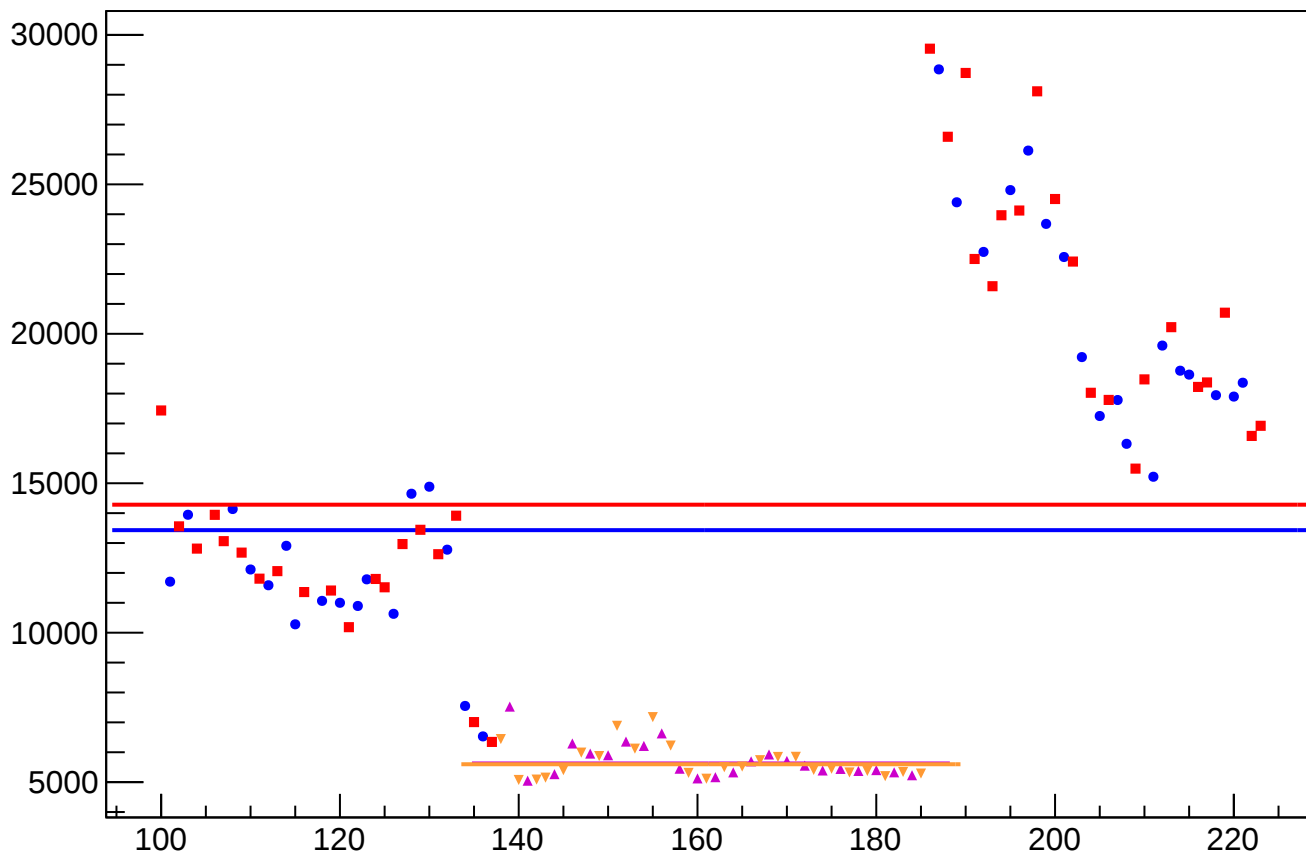
Right: 0.764 ± 2.333 χ^2/NDF : 141.2/73

In: 2.179 ± 1.252 χ^2/NDF : 100.3/57

Out: 3.636 ± 1.223 χ^2/NDF : 138.9/63

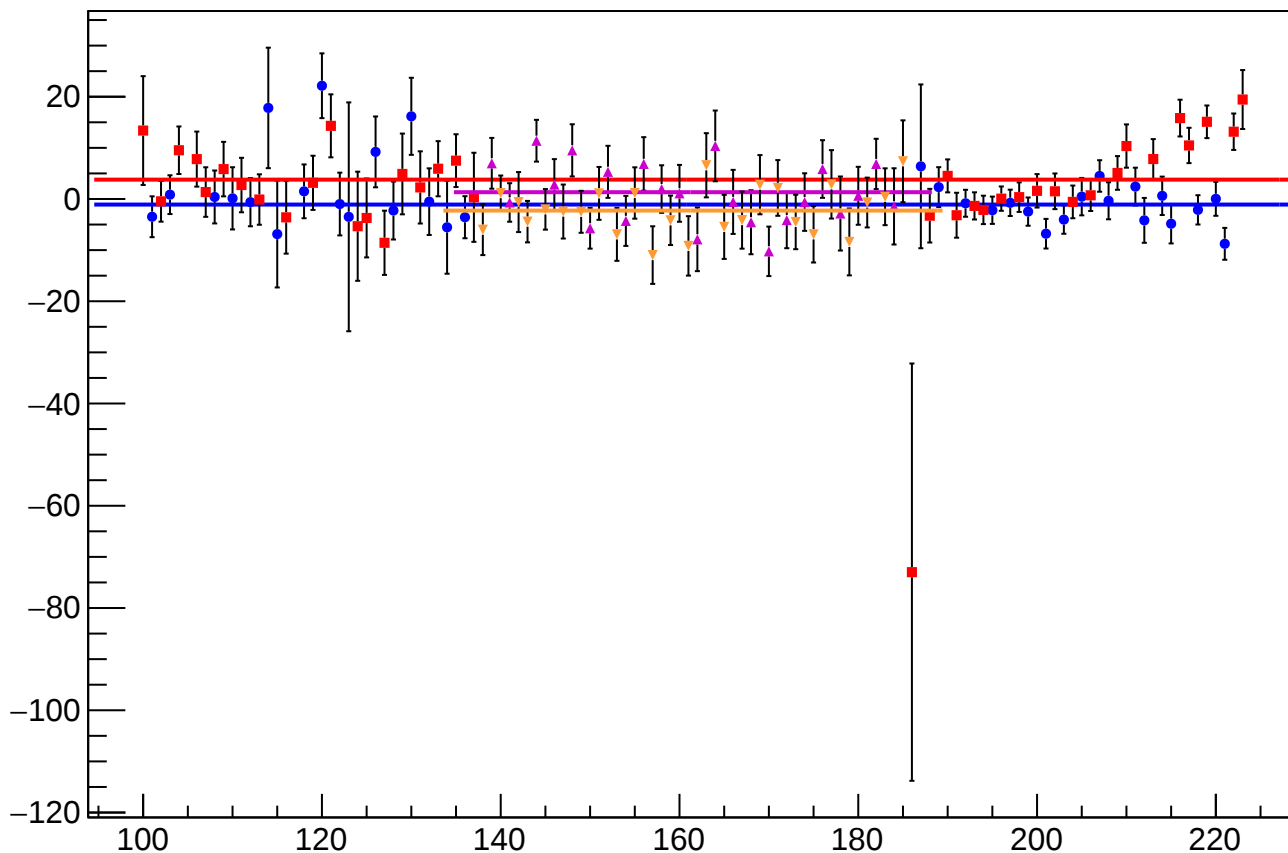
All: 2.925 ± 0.875 χ^2/NDF : 239.9/121

diff_bpm16X_rms vs Slug, Sign Corrected



Left: 5611.528 ± 0.667 , $\chi^2/\text{NDF}: 556207.1/47$
 Right: 13841.533 ± 1.649 , $\chi^2/\text{NDF}: 10403374.4/73$
 In: 6790.252 ± 0.886 , $\chi^2/\text{NDF}: 15427343.6/57$
 Out: 6749.004 ± 0.864 , $\chi^2/\text{NDF}: 16927381.4/63$

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.091 $\pm$ 0.669 χ^2/NDF : 44.2/34

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

Right Out: 3.787 $\pm$ 0.663 χ^2/NDF : 84.8/38

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

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

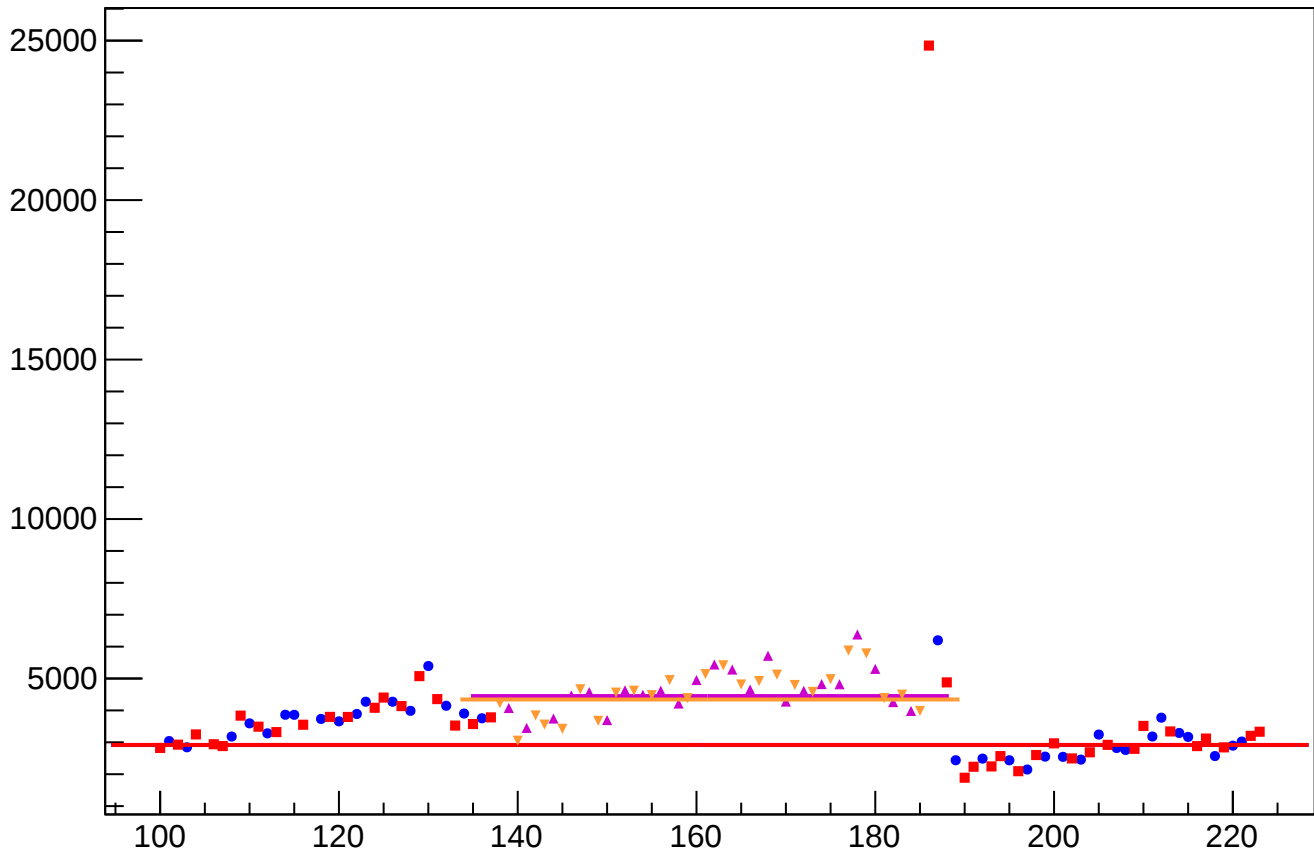
Right: 1.371 $\pm$ 0.471 χ^2/NDF : 155.8/73

In: -0.421 $\pm$ 0.569 χ^2/NDF :78.5/57

Out: 2.015 $\pm$ 0.558 χ^2/NDF :124.7/63

All: 0.822 $\pm$ 0.398 χ^2/NDF : 212.5/121

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2914.800+/-0.473 χ^2/NDF : 1449047.3/34

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

Right Out: 2918.224+/-0.469 χ^2/NDF : 2371058.5/38

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

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

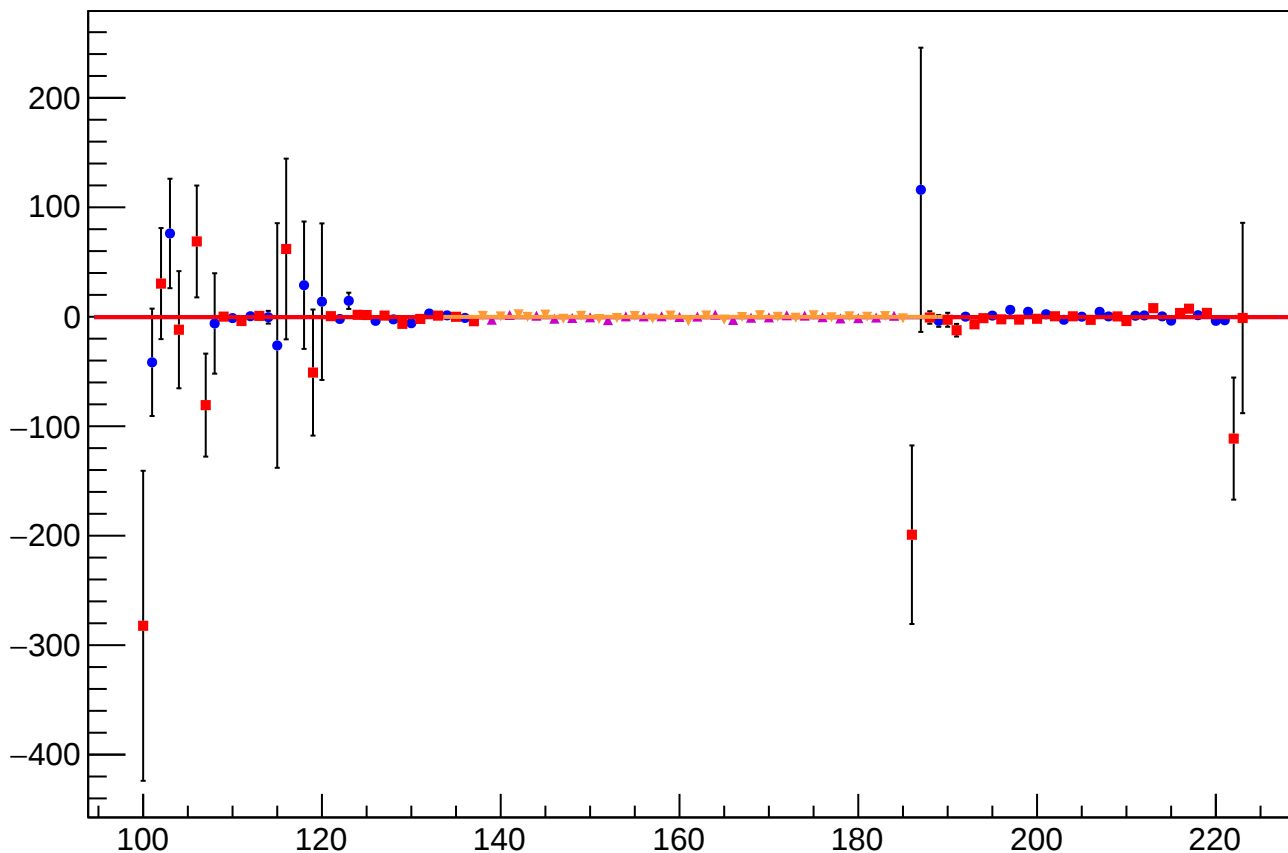
Right: 2916.528+/-0.333 χ^2/NDF : 3820132.2/73

In: 3339.716+/-0.403 χ^2/NDF : 5054148.0/57

Out: 3335.417+/-0.394 χ^2/NDF : 6068008.6/63

All: 3337.522+/-0.282 χ^2/NDF : 11122214.8/120

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.374 ± 0.501 χ^2/NDF : 36.9/34

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

Right Out: -0.278 ± 0.513 χ^2/NDF : 66.0/38

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

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

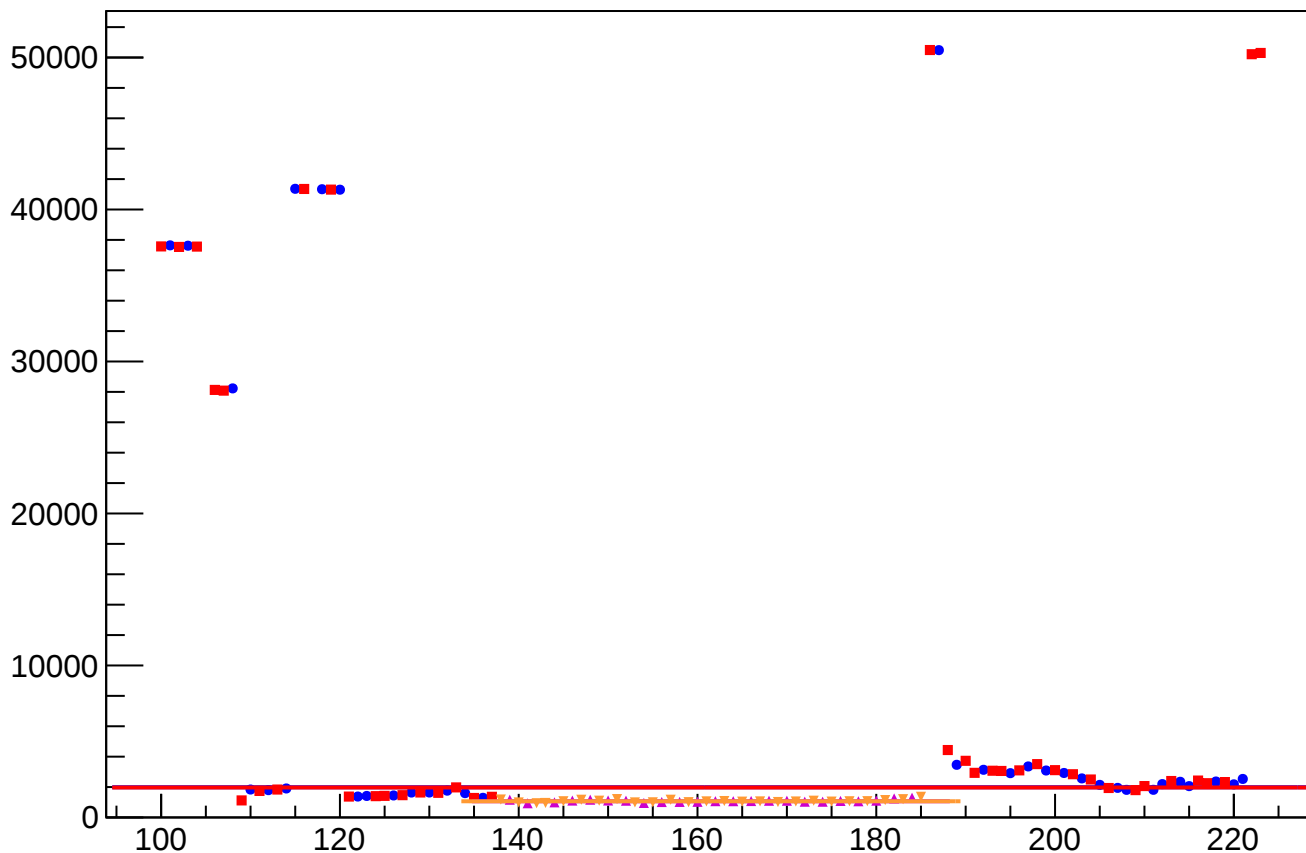
Right: -0.327 ± 0.358 χ^2/NDF : 102.9/73

In: -0.283 ± 0.229 χ^2/NDF : 64.1/57

Out: -0.127 ± 0.224 χ^2/NDF : 100.6/63

All: -0.204 ± 0.160 χ^2/NDF : 164.9/121

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1987.400+/-0.354

χ^2/NDF : 7109164.3/34

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1971.677+/-0.362

χ^2/NDF : 10654243.3/38

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126

χ^2/NDF : 350781.3/47

Right: 1979.725+/-0.253

χ^2/NDF : 17764370.9/73

In: 1258.398+/-0.162

χ^2/NDF : 12634257.0/57

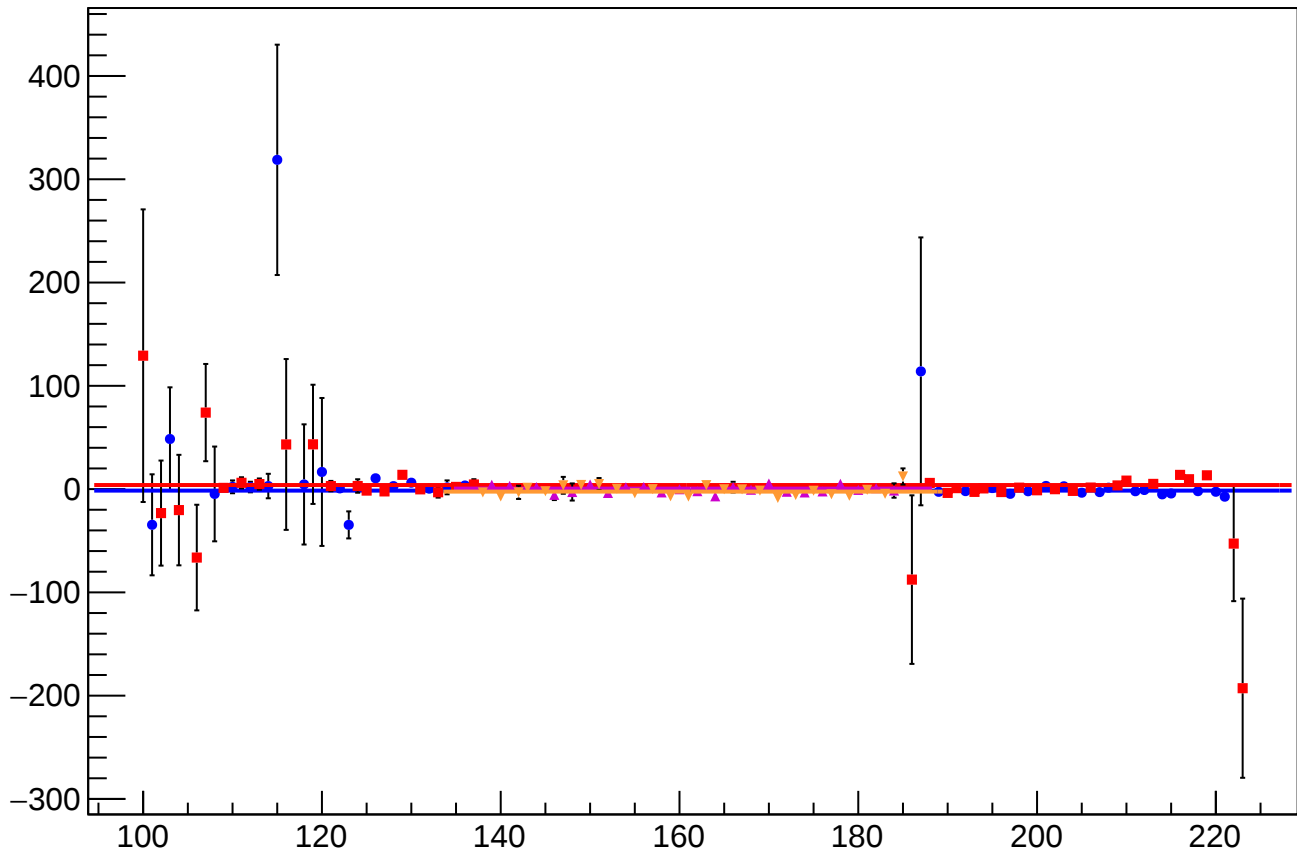
Out: 1237.939+/-0.158

χ^2/NDF : 15907366.1/63

All: 1247.961+/-0.113

χ^2/NDF : 28549795.2/100

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -1.460 ± 0.416 χ^2/NDF : 69.6/34

Left Out: -2.422 ± 0.811 χ^2/NDF : 21.2/24

Right Out: 3.928 ± 0.446 χ^2/NDF : 154.7/38

Left In: 0.468 ± 0.843 χ^2/NDF : 15.5/22

Left: -1.033 ± 0.584 χ^2/NDF : 42.8/47

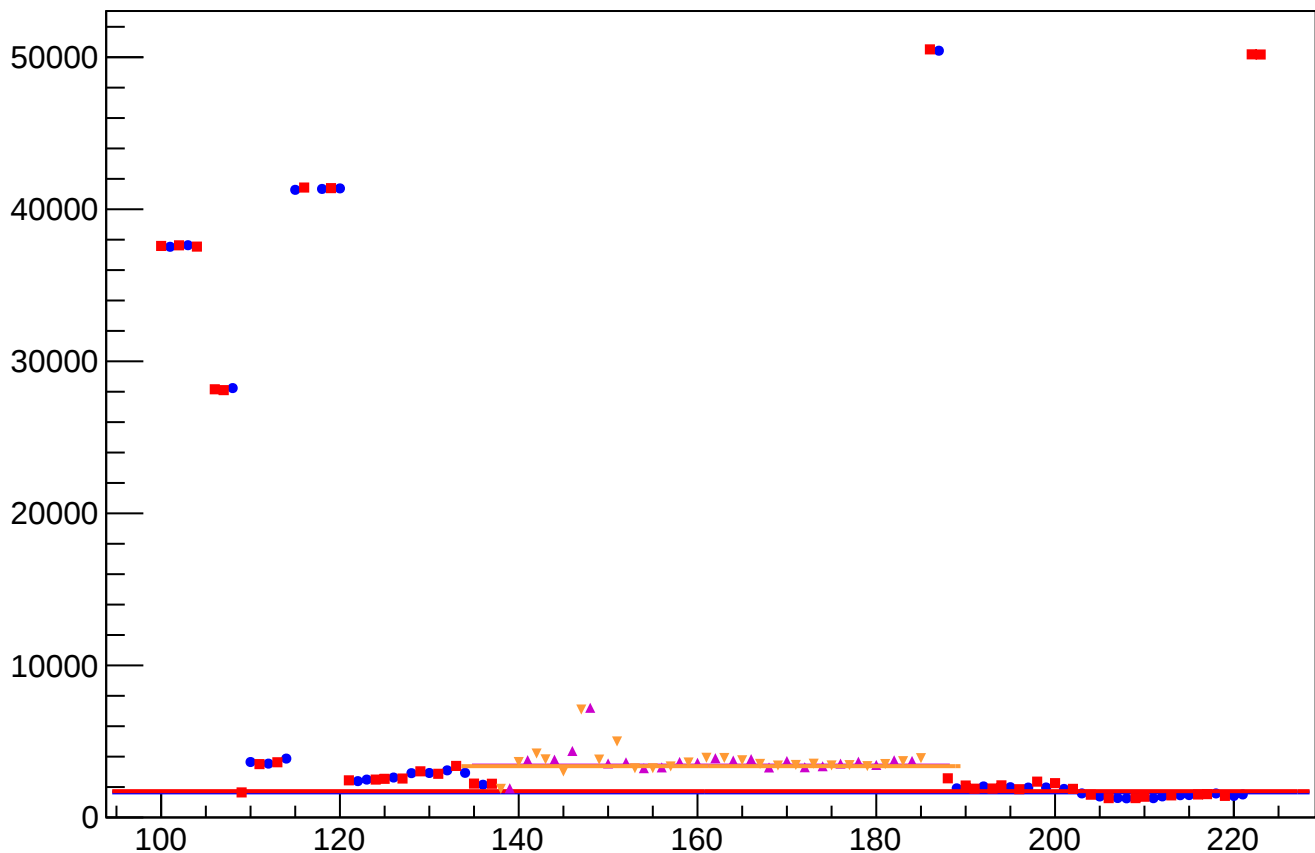
Right: 1.049 ± 0.304 χ^2/NDF : 302.4/73

In: -1.082 ± 0.373 χ^2/NDF : 89.3/57

Out: 2.453 ± 0.391 χ^2/NDF : 223.1/63

All: 0.605 ± 0.270 χ^2/NDF : 355.2/121

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1647.863+/-0.294 χ^2/NDF : 7164114.7/34

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

Right Out: 1729.693+/-0.315 χ^2/NDF : 9832256.1/38

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

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

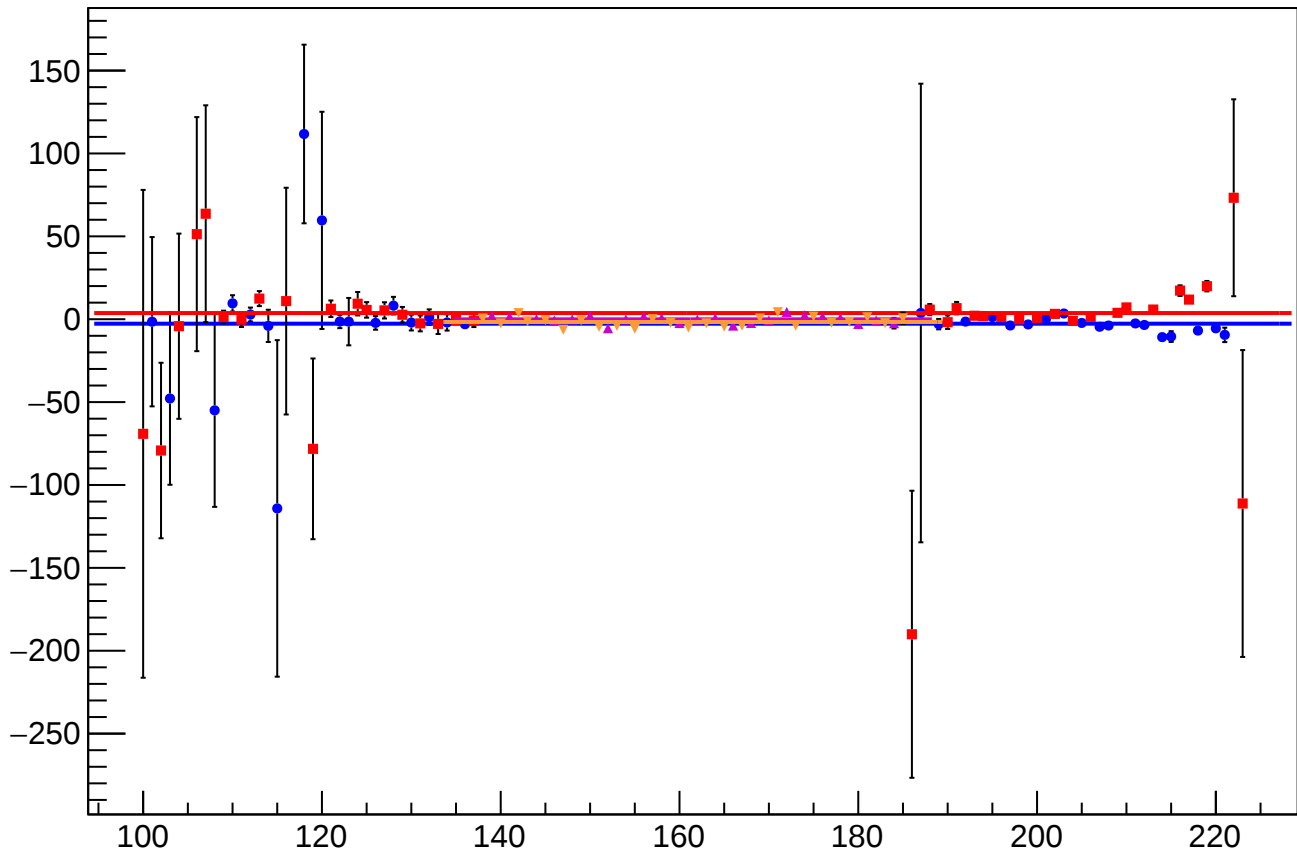
Right: 1685.971+/-0.215 χ^2/NDF : 17032369.1/73

In: 1993.734+/-0.264 χ^2/NDF : 15641906.4/57

Out: 2111.393+/-0.276 χ^2/NDF : 17800072.0/63

All: 2049.879+/-0.191 χ^2/NDF : 33536833.9/1

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -2.695 ± 0.540 χ^2/NDF : 54.6/34

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

Right Out: 3.723 ± 0.567 χ^2/NDF : 95.2/38

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

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

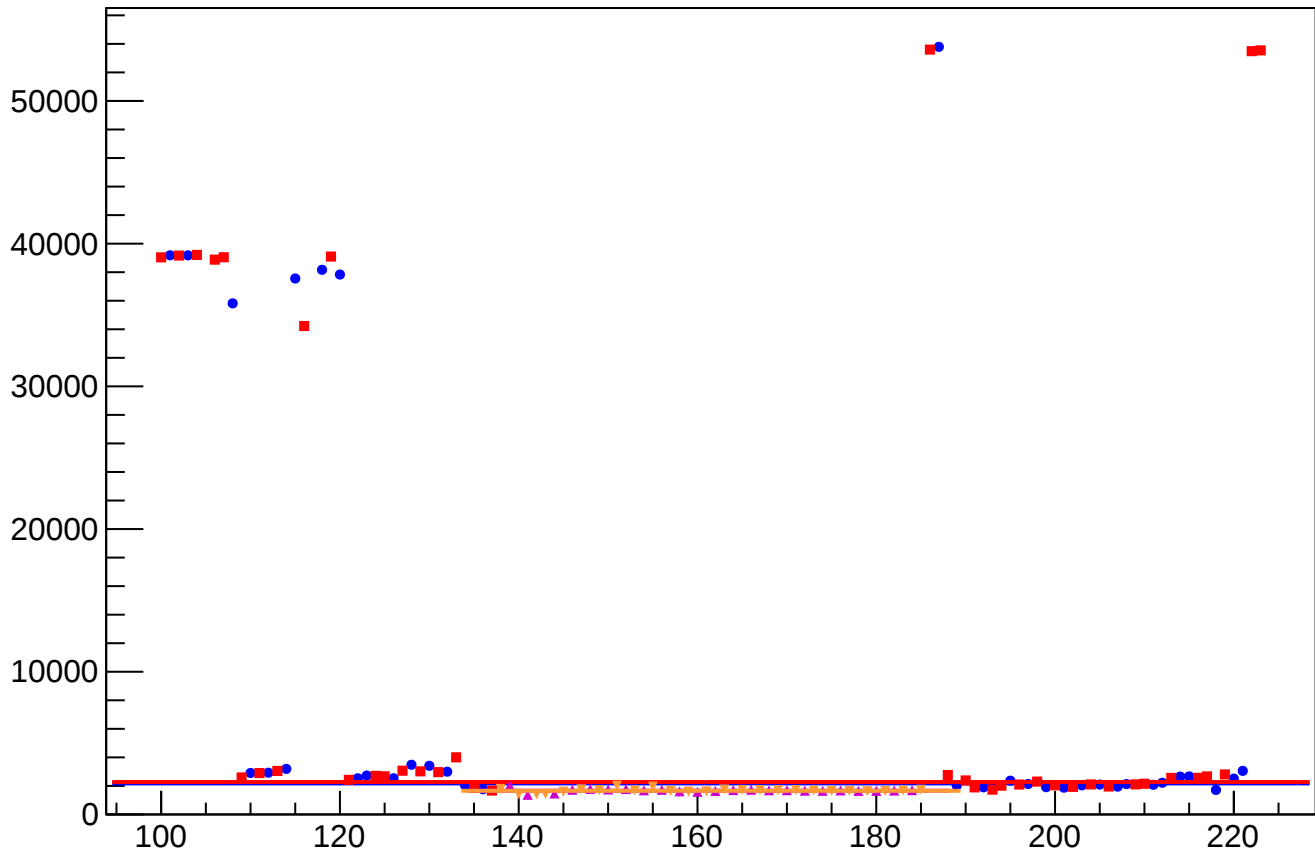
Right: 0.353 ± 0.391 χ^2/NDF : 217.0/73

In: -1.005 ± 0.322 χ^2/NDF : 98.1/57

Out: 0.047 ± 0.320 χ^2/NDF : 202.4/63

All: -0.476 ± 0.227 χ^2/NDF : 305.9/121

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2175.321 $\pm$ 0.382 χ^2/NDF : 5770556.4/34

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

Right Out: 2271.683 $\pm$ 0.401 χ^2/NDF : 8320197.6/38

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

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

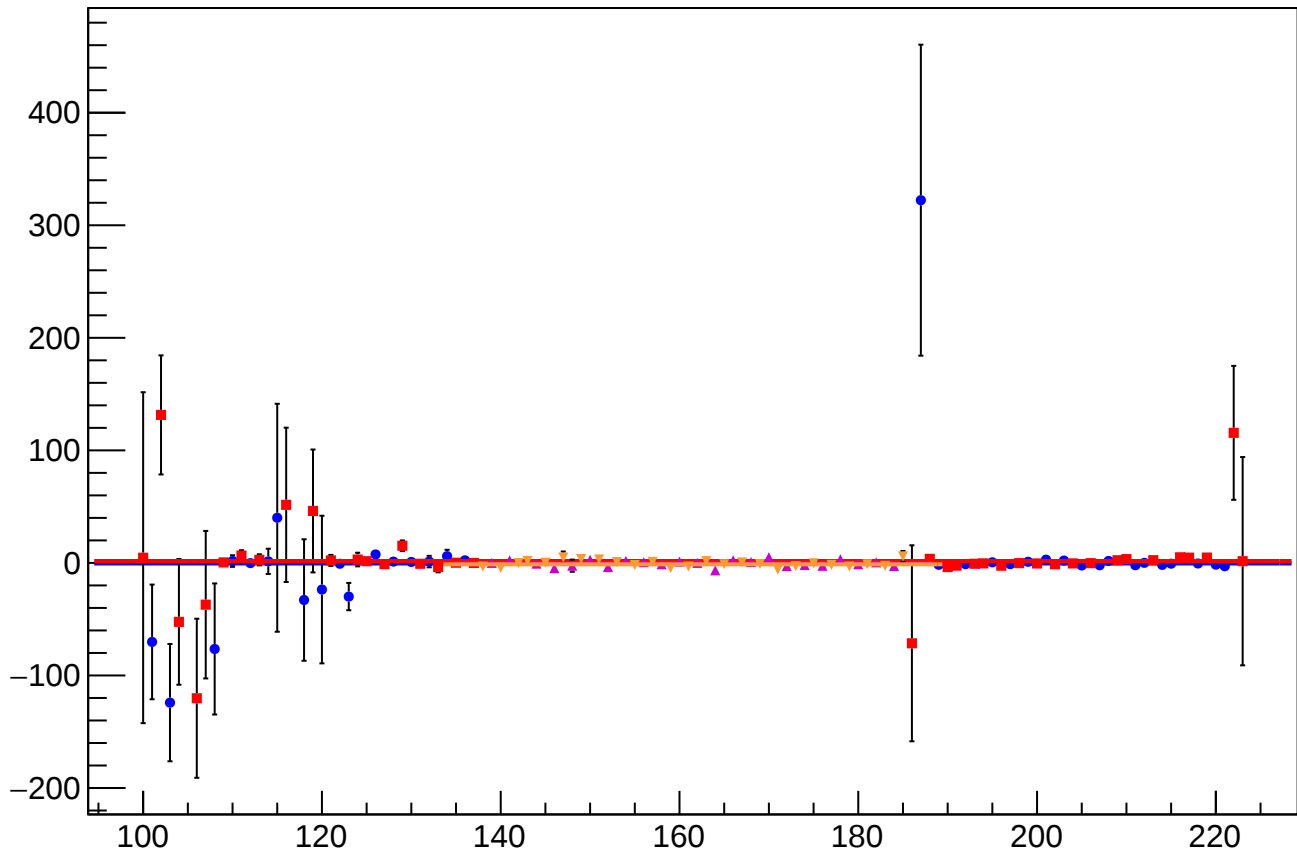
Right: 2221.084 $\pm$ 0.276 χ^2/NDF : 14121044.4/73

In: 1845.701 $\pm$ 0.228 χ^2/NDF : 7107959.6/57

Out: 1853.429 $\pm$ 0.226 χ^2/NDF : 10138833.1/63

All: 1849.584 $\pm$ 0.161 χ^2/NDF : 17247372.1/111

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.502 ± 0.345 $\chi^2/\text{NDF}: 48.4/34$

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

Right Out: 1.709 ± 0.361 $\chi^2/\text{NDF}: 74.9/38$

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

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

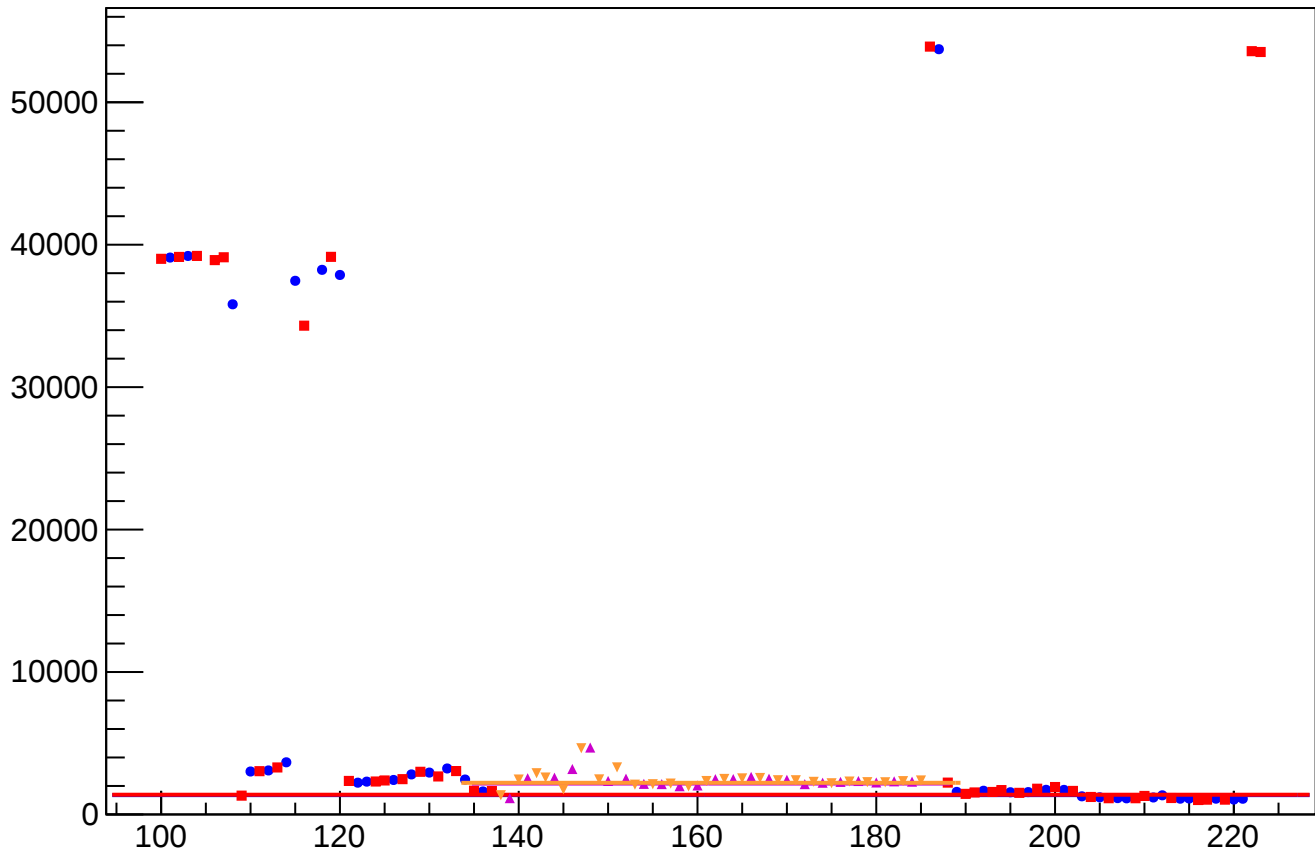
Right: 0.554 ± 0.250 $\chi^2/\text{NDF}: 142.9/73$

In: -0.385 ± 0.291 $\chi^2/\text{NDF}: 68.1/57$

Out: 0.782 ± 0.299 $\chi^2/\text{NDF}: 117.7/63$

All: 0.182 ± 0.209 $\chi^2/\text{NDF}: 193.6/121$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1356.956 $\pm$ 0.244 χ^2 /NDF: 7614124.3/34

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

Right Out: 1385.228 $\pm$ 0.255 χ^2 /NDF: 10534462.3/38

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

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

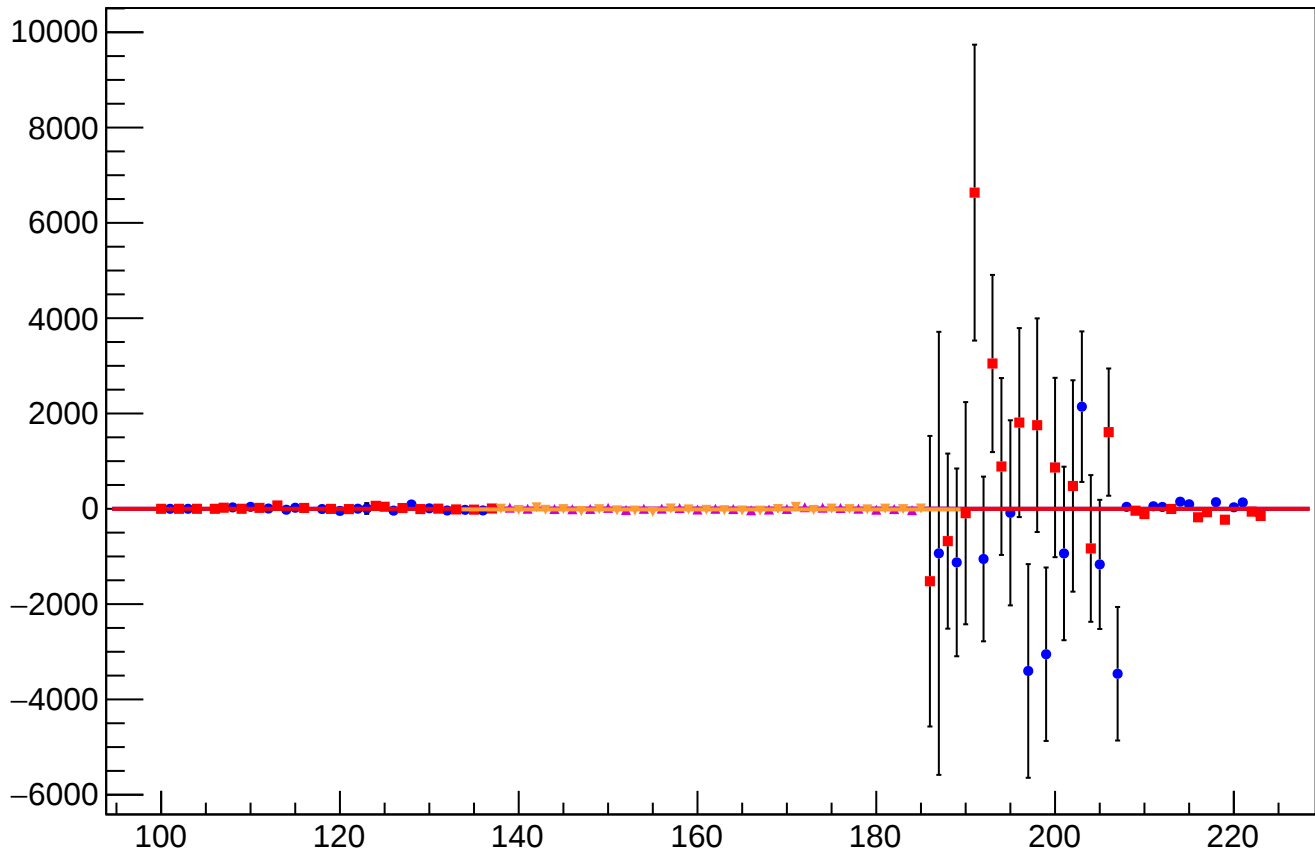
Right: 1370.460 $\pm$ 0.177 χ^2 /NDF: 18154984.6/73

In: 1592.157 $\pm$ 0.206 χ^2 /NDF:12791513.1/57

Out: 1647.282 $\pm$ 0.212 χ^2 /NDF:15317541.1/63

All: 1618.953 $\pm$ 0.148 χ^2 /NDF: 28143894.4/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 66.8/34

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

Right Out: -0.003+/-0.016 χ^2/NDF : 72.4/38

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

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

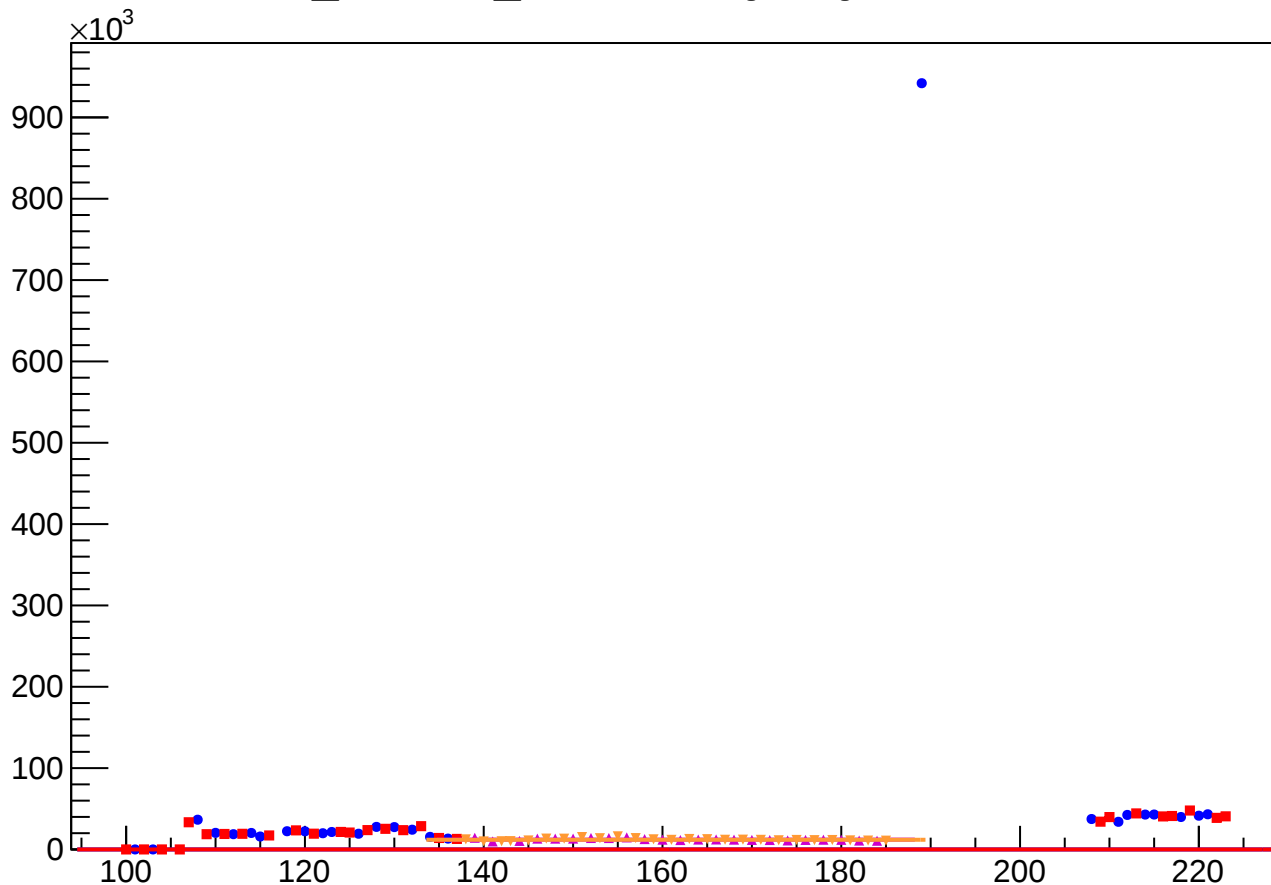
Right: 0.004+/-0.012 χ^2/NDF : 139.7/73

In: 0.013+/-0.017 χ^2/NDF : 95.8/57

Out: -0.004+/-0.016 χ^2/NDF : 154.2/63

All: 0.004+/-0.012 χ^2/NDF : 250.5/121

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.686+/-0.012 χ^2/NDF : 23208466.5/25

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

Right Out: 18.346+/-0.011 χ^2/NDF : 22155487.4/26

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

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

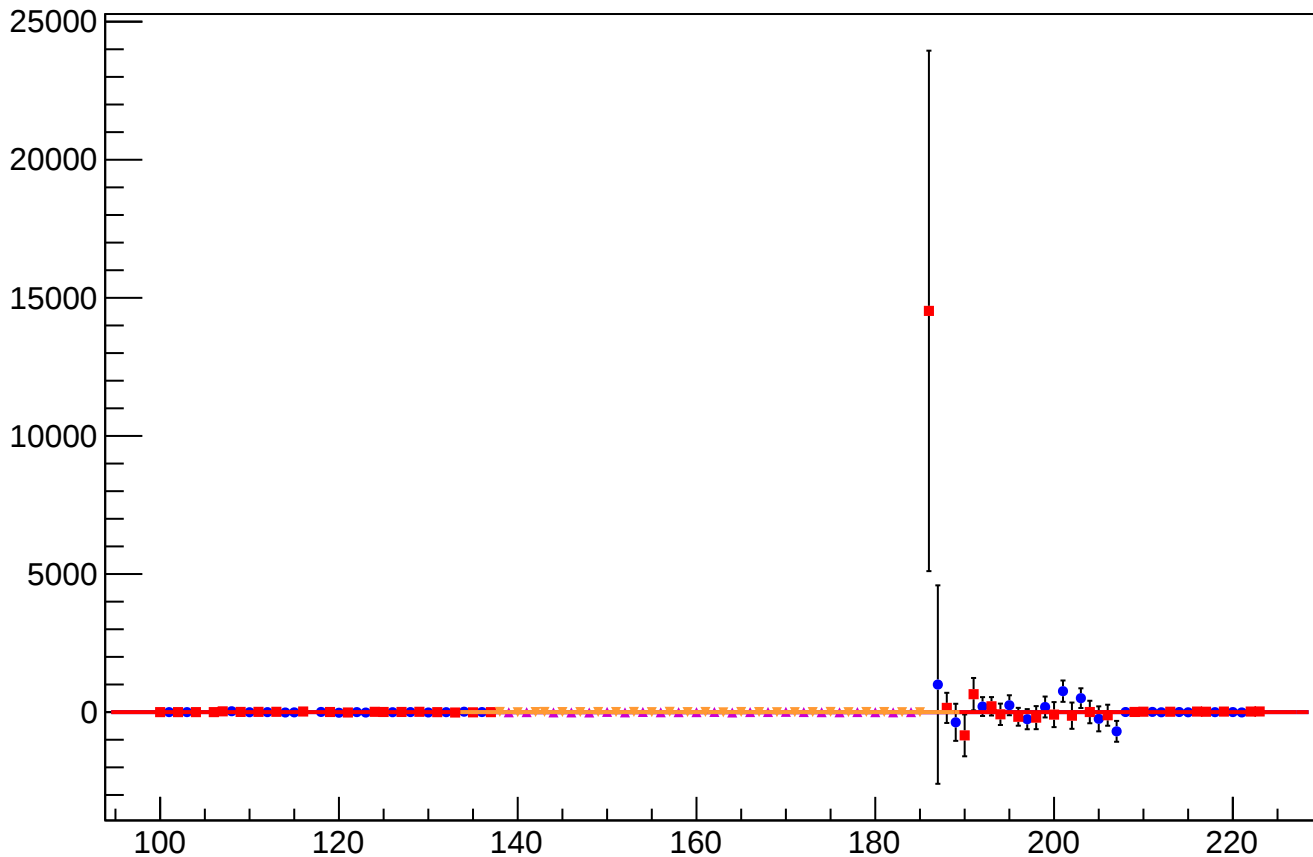
Right: 18.504+/-0.008 χ^2/NDF : 45364367.4/52

In: 19.112+/-0.012 χ^2/NDF : 57690530.6/48

Out: 18.738+/-0.011 χ^2/NDF : 58697119.4/51

All: 18.911+/-0.008 χ^2/NDF : 116388149.6/10

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 32.5/34

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

Right Out: -0.014 ± 0.009 χ^2/NDF : 77.7/38

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

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

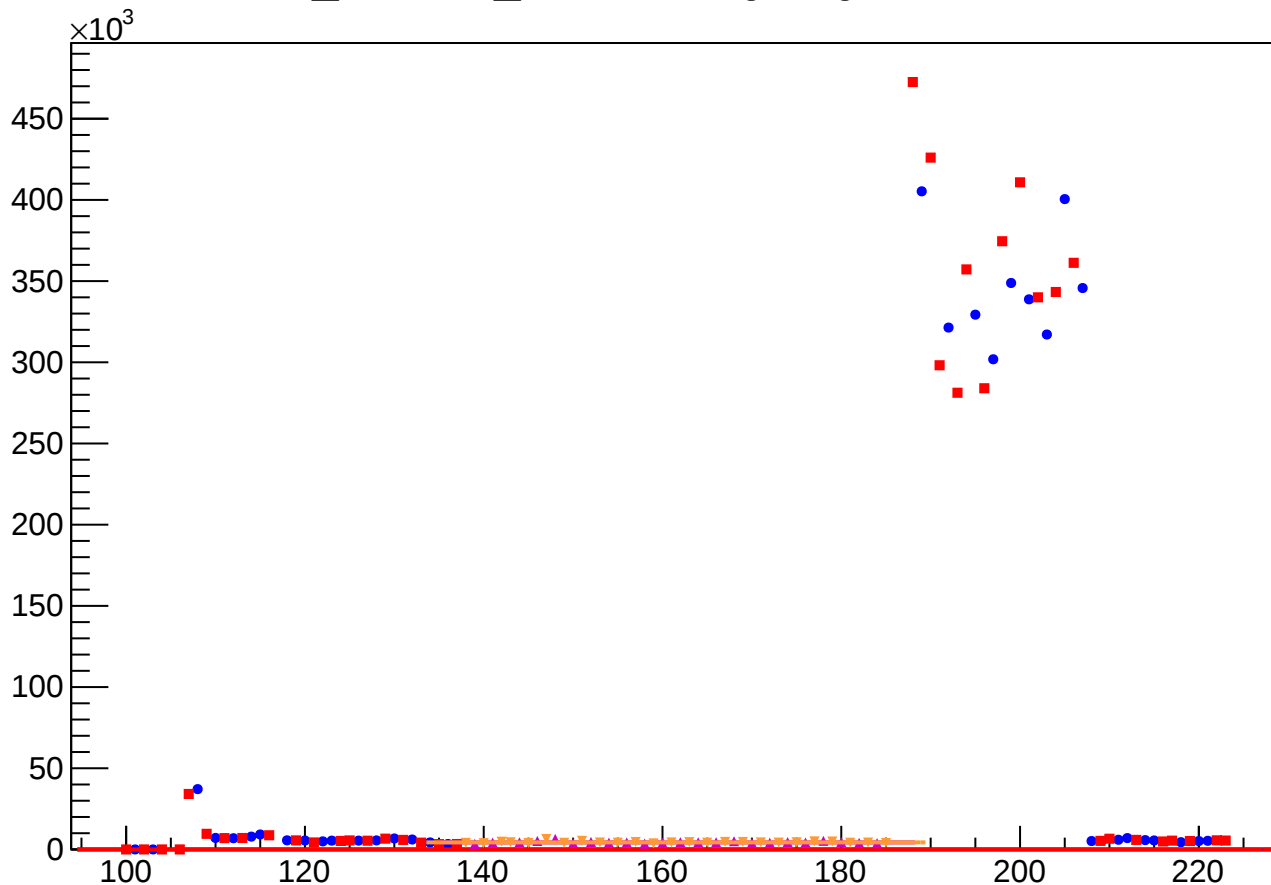
Right: -0.007 ± 0.006 χ^2/NDF : 111.5/73

In: 0.001 ± 0.009 χ^2/NDF : 68.9/57

Out: -0.014 ± 0.009 χ^2/NDF : 98.7/63

All: -0.007 ± 0.006 χ^2/NDF : 168.9/121

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.033+/-0.007 χ^2/NDF : 36613001.2/33

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

Right Out: 9.930+/-0.006 χ^2/NDF : 36910568.8/37

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

Left: 4335.639+/-0.518 χ^2/NDF : 899200.9/47

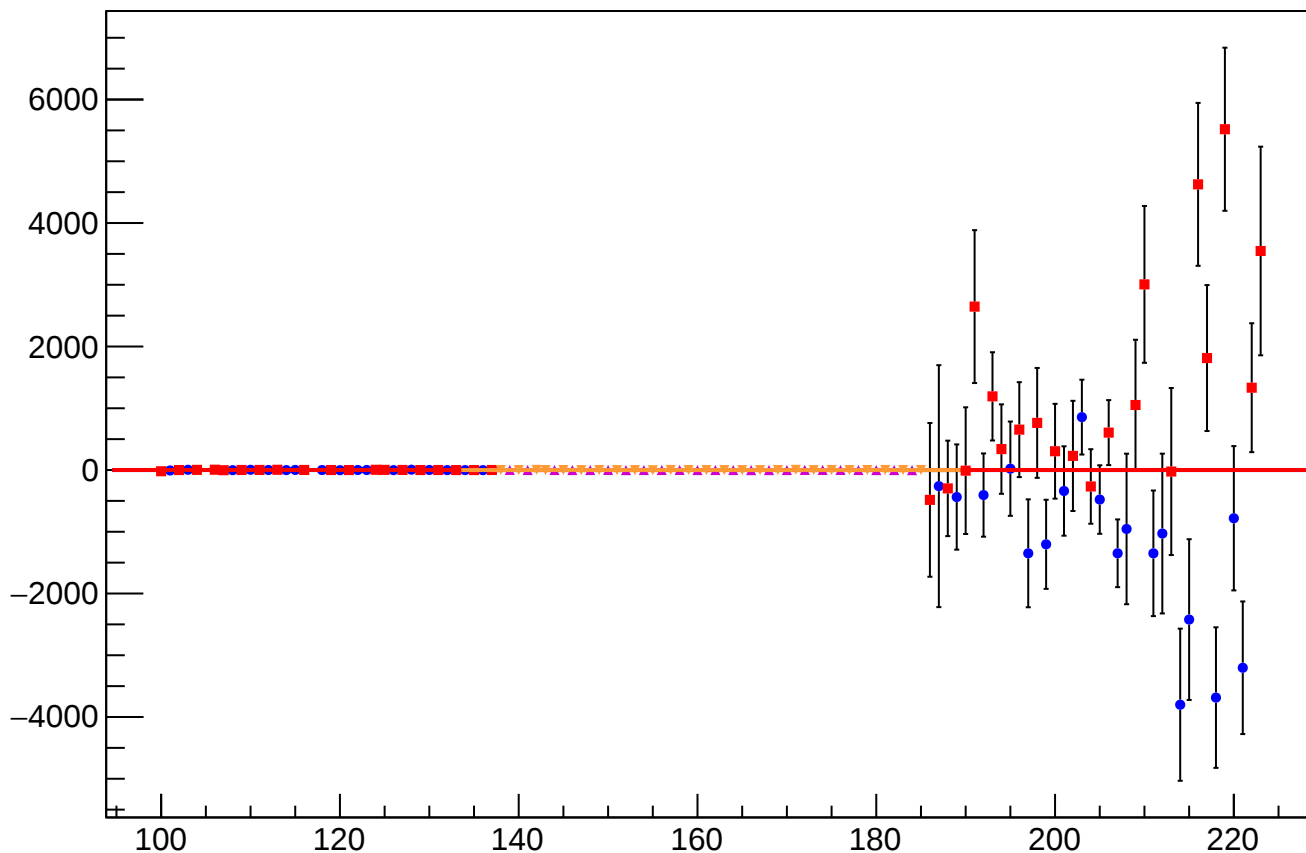
Right: 9.979+/-0.004 χ^2/NDF : 73523702.7/71

In: 10.365+/-0.007 χ^2/NDF : 70943266.4/56

Out: 10.241+/-0.006 χ^2/NDF : 73338475.2/62

All: 10.299+/-0.004 χ^2/NDF : 144281934.7/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.483 χ^2/NDF : 73.3/34

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

Right Out: 0.643 ± 0.501 χ^2/NDF : 68.9/38

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

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

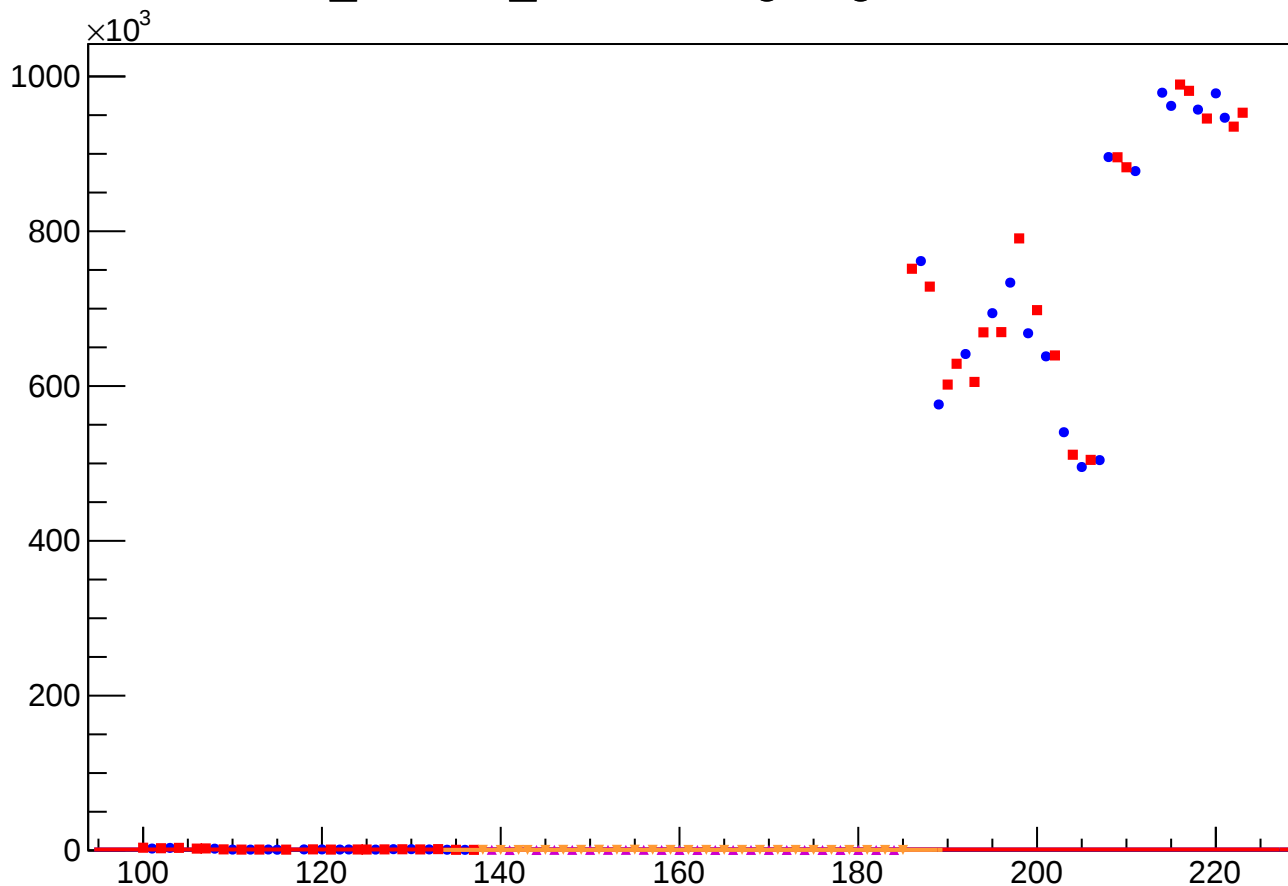
Right: -0.063 ± 0.348 χ^2/NDF : 146.0/73

In: -0.063 ± 0.161 χ^2/NDF : 104.8/57

Out: -0.637 ± 0.156 χ^2/NDF : 134.6/63

All: -0.359 ± 0.112 χ^2/NDF : 245.9/121

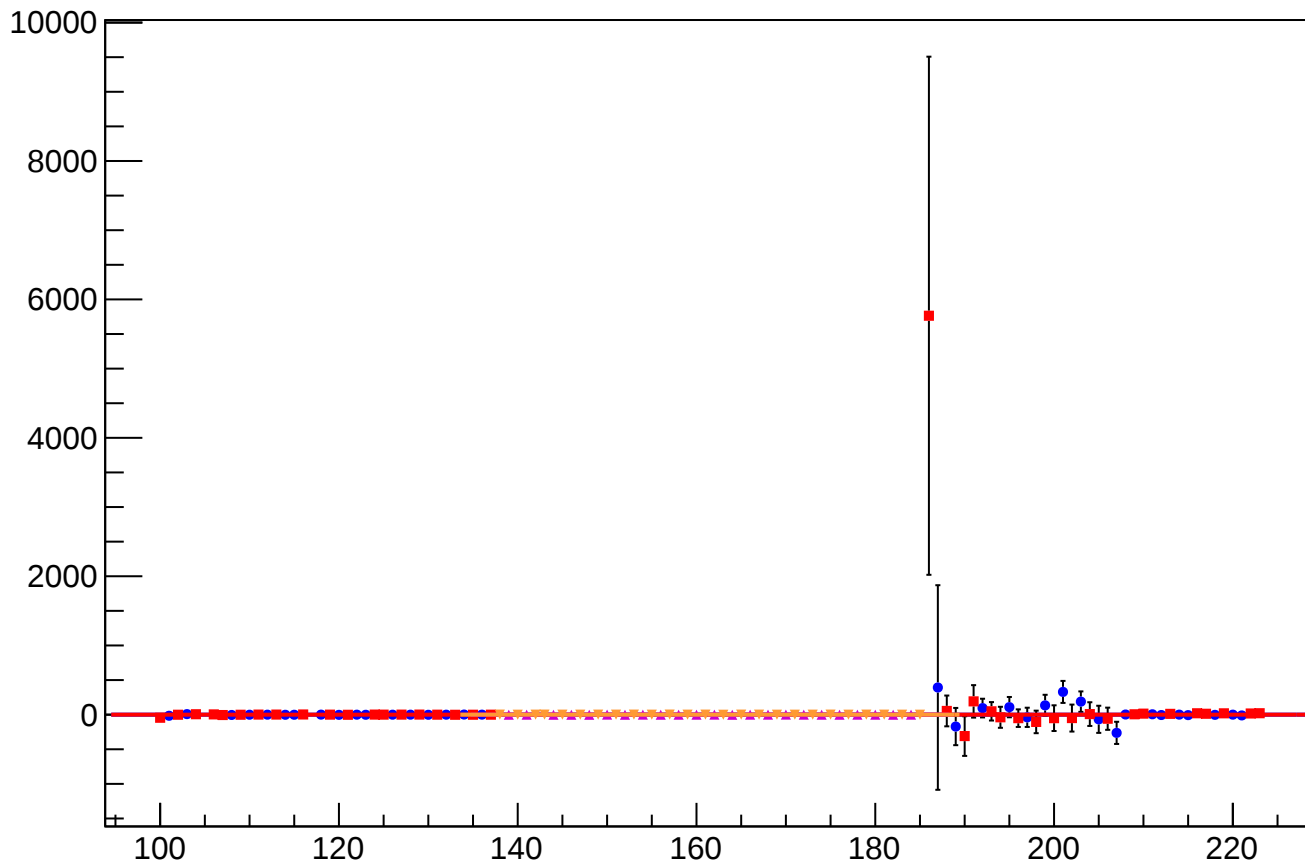
diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.461 $\pm$ 0.342 χ^2 /NDF: 20403383.5/33
 Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF:392855.4/24
 Right Out: 1251.570 $\pm$ 0.355 χ^2 /NDF: 21333247.1/37
 Left In: 706.971 $\pm$ 0.121 χ^2 /NDF:332011.4/22

Left: 703.867 $\pm$ 0.084 χ^2 /NDF: 726141.0/47
 Right: 1209.504 $\pm$ 0.246 χ^2 /NDF: 41763765.4/71
 In: 758.453 $\pm$ 0.114 χ^2 /NDF:22371700.6/56
 Out: 754.518 $\pm$ 0.111 χ^2 /NDF:23902583.2/62
 All: 756.428 $\pm$ 0.079 χ^2 /NDF: 46274898.6/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.112 ± 0.266 χ^2/NDF : 40.2/34

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

Right Out: 0.016 ± 0.262 χ^2/NDF : 98.1/38

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

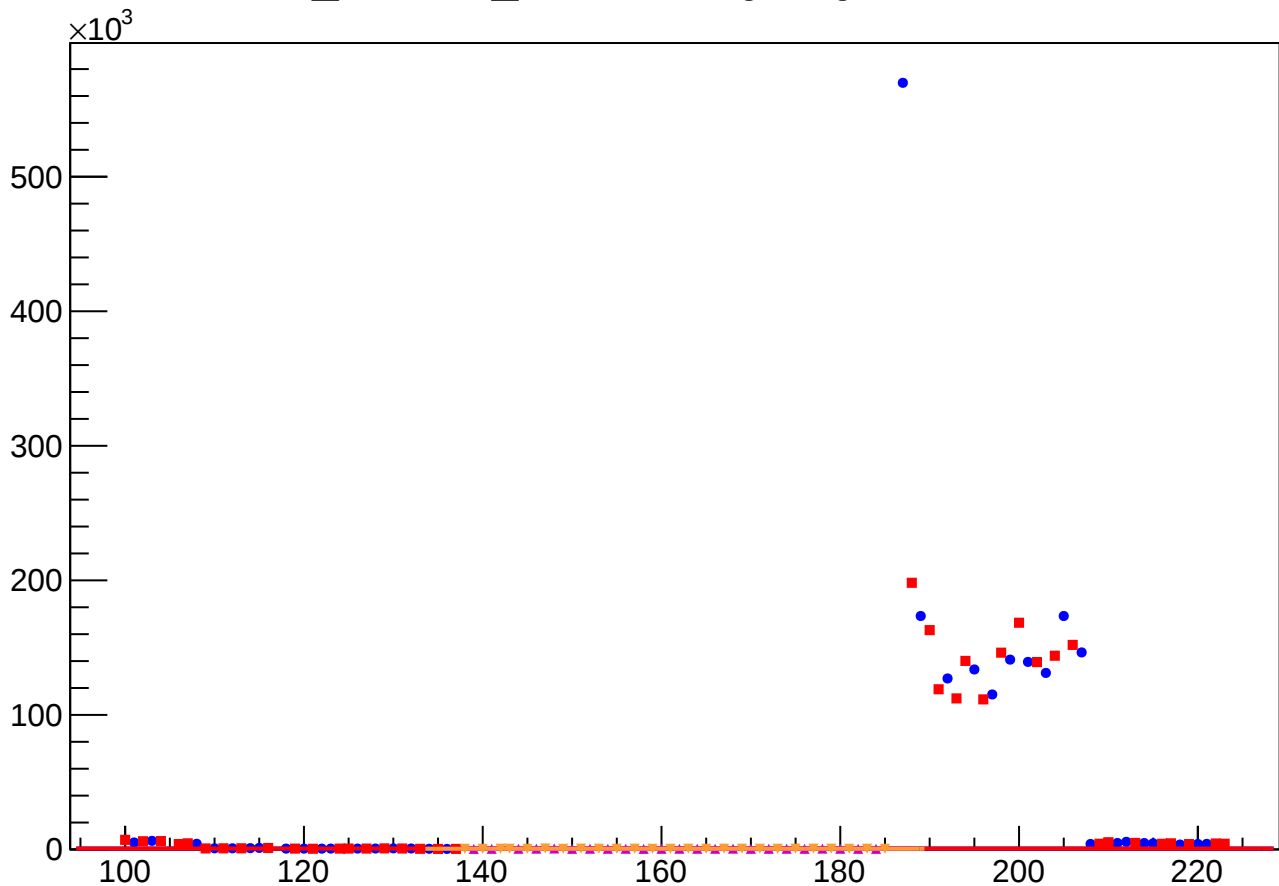
Right: -0.047 ± 0.187 χ^2/NDF : 138.4/73

In: -0.123 ± 0.114 χ^2/NDF : 75.1/57

Out: 0.194 ± 0.111 χ^2/NDF : 116.6/63

All: 0.040 ± 0.080 χ^2/NDF : 195.7/121

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 695.956 ± 0.188 χ^2/NDF : 25690124.9/34

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

Right Out: 675.843 ± 0.185 χ^2/NDF : 26459133.4/37

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

Left: 521.481 ± 0.062 χ^2/NDF : 758275.0/47

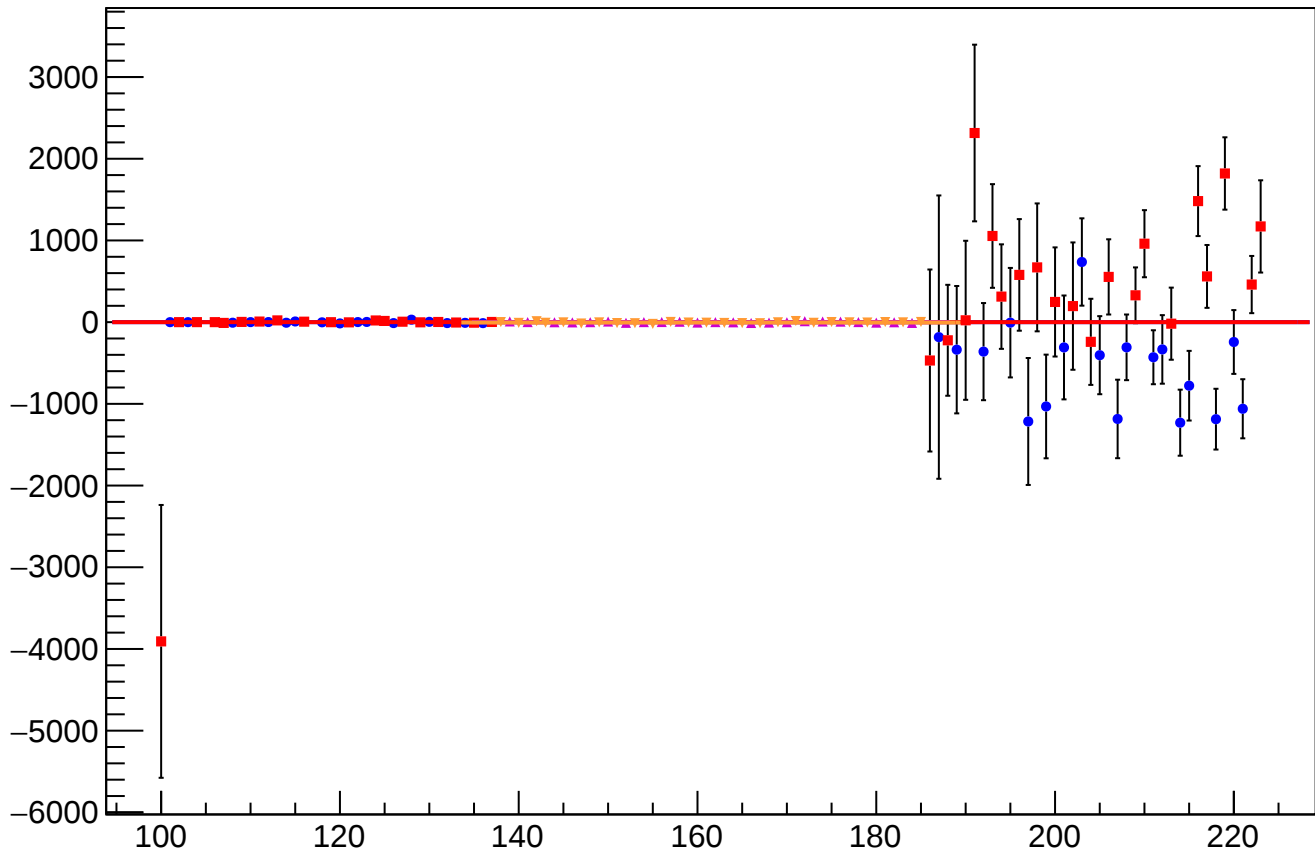
Right: 685.743 ± 0.132 χ^2/NDF : 52155065.2/72

In: 552.884 ± 0.081 χ^2/NDF : 26826779.7/57

Out: 549.840 ± 0.079 χ^2/NDF : 27354083.6/62

All: 551.322 ± 0.056 χ^2/NDF : 54181595.1/12

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 65.2/34

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 72.0/38

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

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

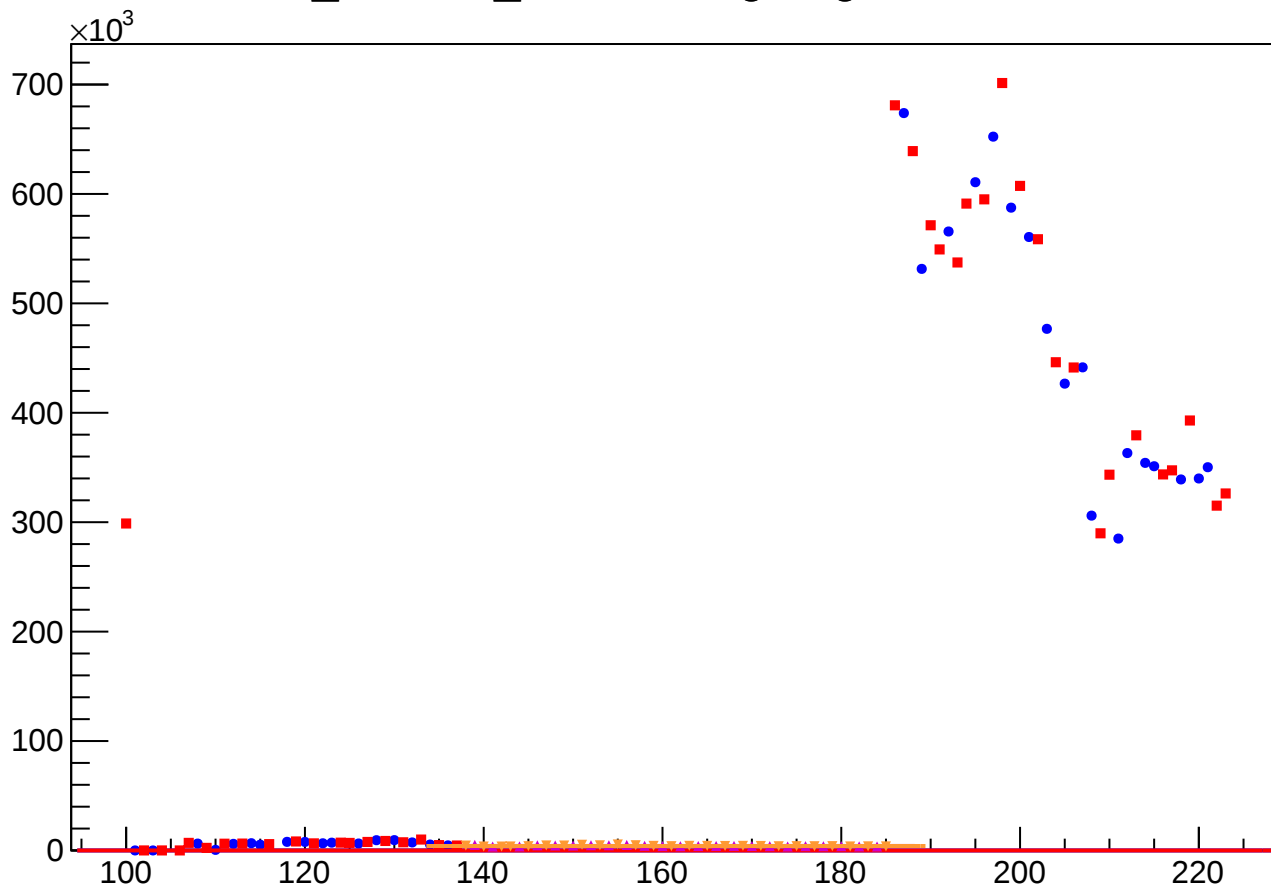
Right: 0.004 ± 0.014 χ^2/NDF : 140.1/73

In: -0.022 ± 0.021 χ^2/NDF : 94.8/57

Out: 0.025 ± 0.020 χ^2/NDF : 152.6/63

All: 0.003 ± 0.014 χ^2/NDF : 250.0/121

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.353+/-0.015 χ^2/NDF : 36810952.8/34

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

Right Out: 17.279+/-0.014 χ^2/NDF : 37791813.9/38

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

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

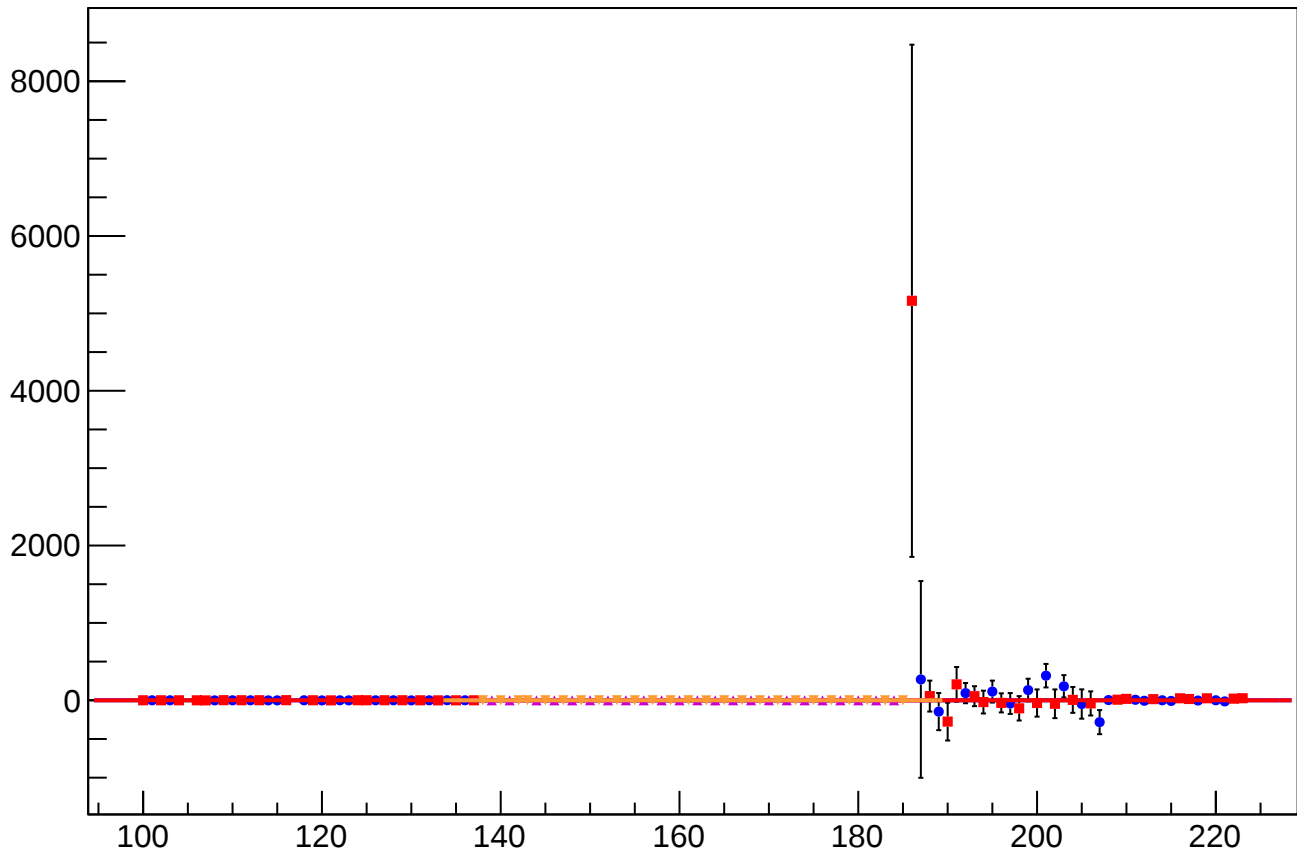
Right: 17.314+/-0.010 χ^2/NDF : 74602779.8/73

In: 19.145+/-0.015 χ^2/NDF : 71113264.0/57

Out: 19.011+/-0.014 χ^2/NDF : 74144661.3/63

All: 19.075+/-0.010 χ^2/NDF : 145257968.6/120

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 36.0/34

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 99.9/38

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

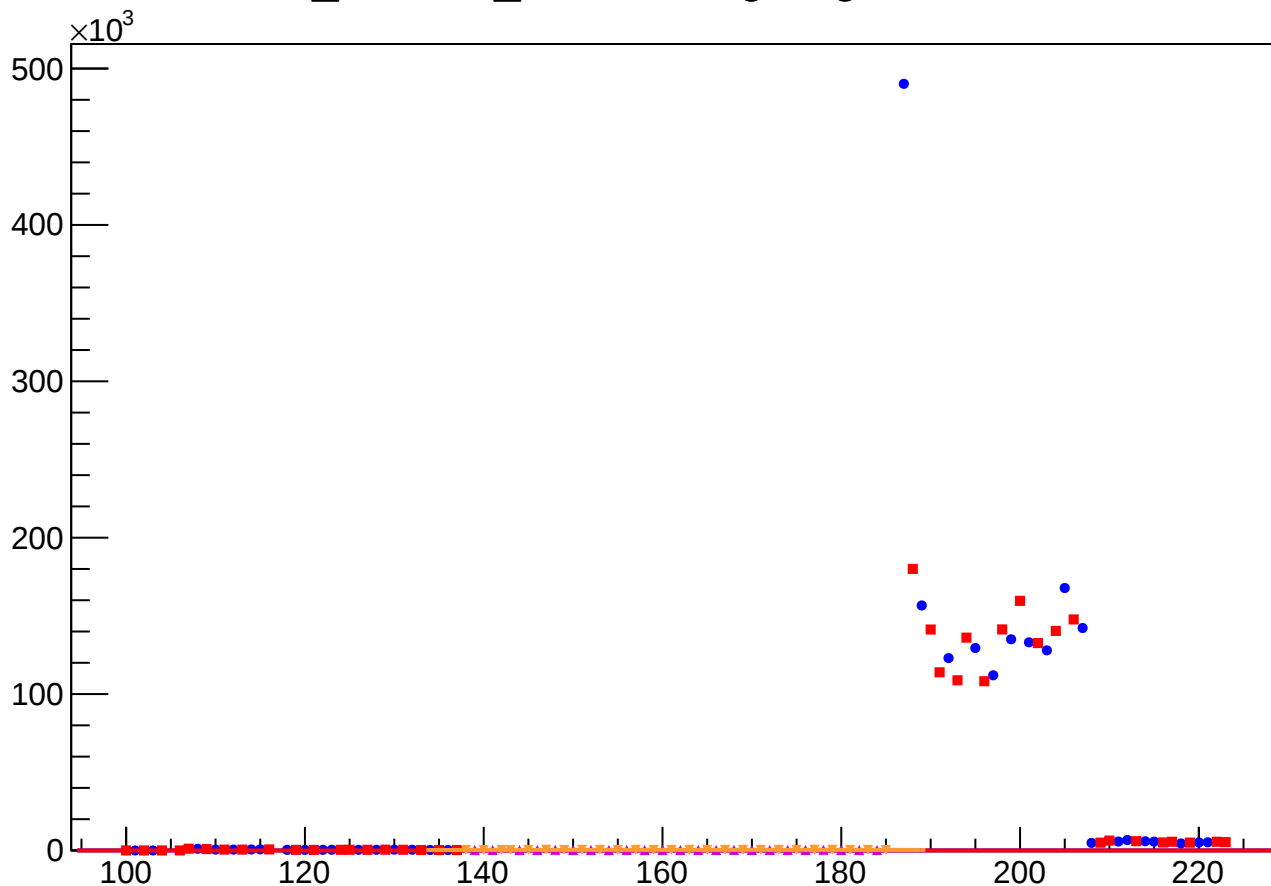
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 136.0/73

In: 0.000 $\pm$ 0.002 χ^2 /NDF:71.6/57

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:121.0/63

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 192.8/121

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.704 $\pm$ 0.001 χ^2/NDF : 37018175.2/34

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

Right Out: 1.732 $\pm$ 0.001 χ^2/NDF : 36721029.8/37

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

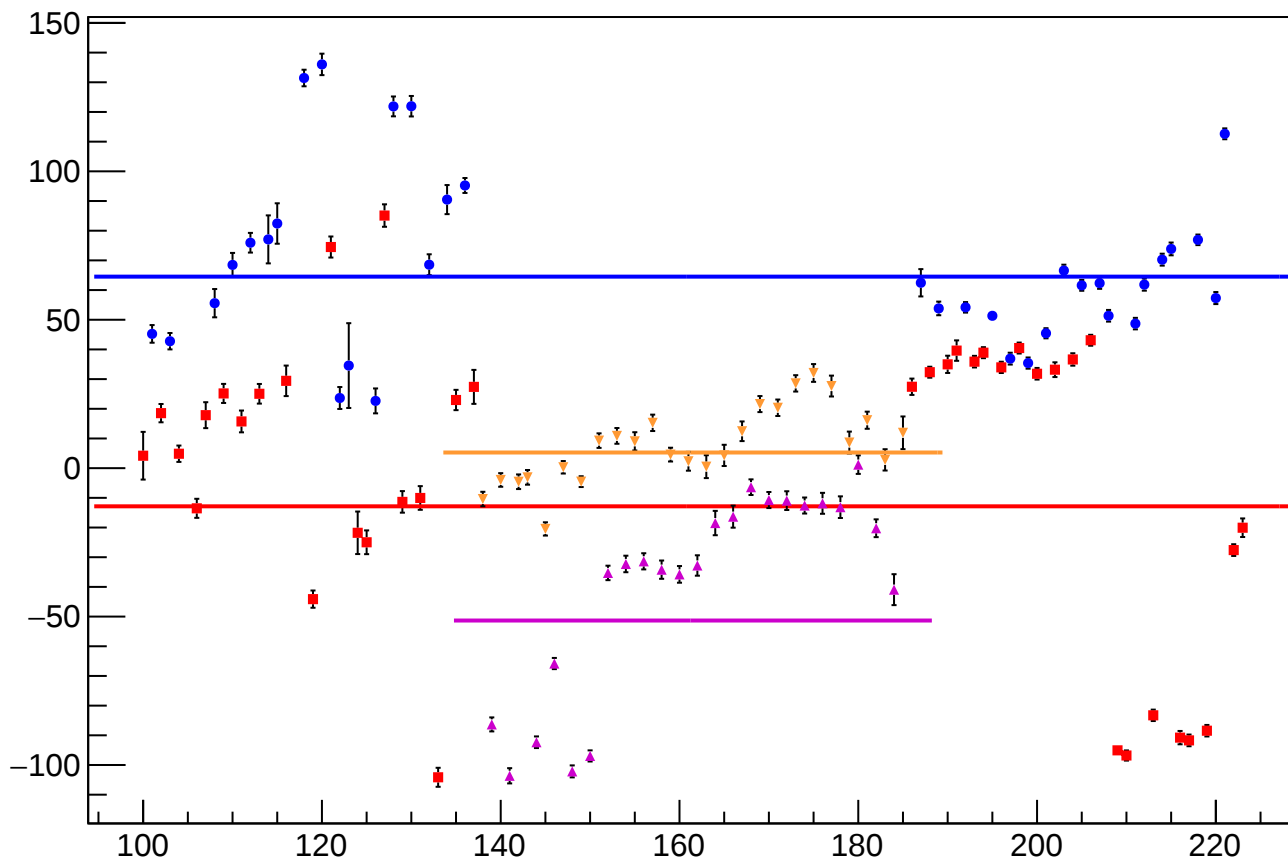
Right: 1.719 $\pm$ 0.001 χ^2/NDF : 73739410.6/72

In: 1.917 $\pm$ 0.001 χ^2/NDF : 71159337.5/57

Out: 1.940 $\pm$ 0.001 χ^2/NDF : 72927676.3/62

All: 1.929 $\pm$ 0.001 χ^2/NDF : 144087150.8/120

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 64.525+/-0.409 χ^2/NDF : 3637.6/34

Left Out: 5.276+/-0.544 χ^2/NDF : 556.2/24

Right Out: -12.855+/-0.396 χ^2/NDF : 21479.6/38

Left In: -51.328+/-0.558 χ^2/NDF : 4257.8/22

Left: -22.298+/-0.390 χ^2/NDF : 10084.6/47

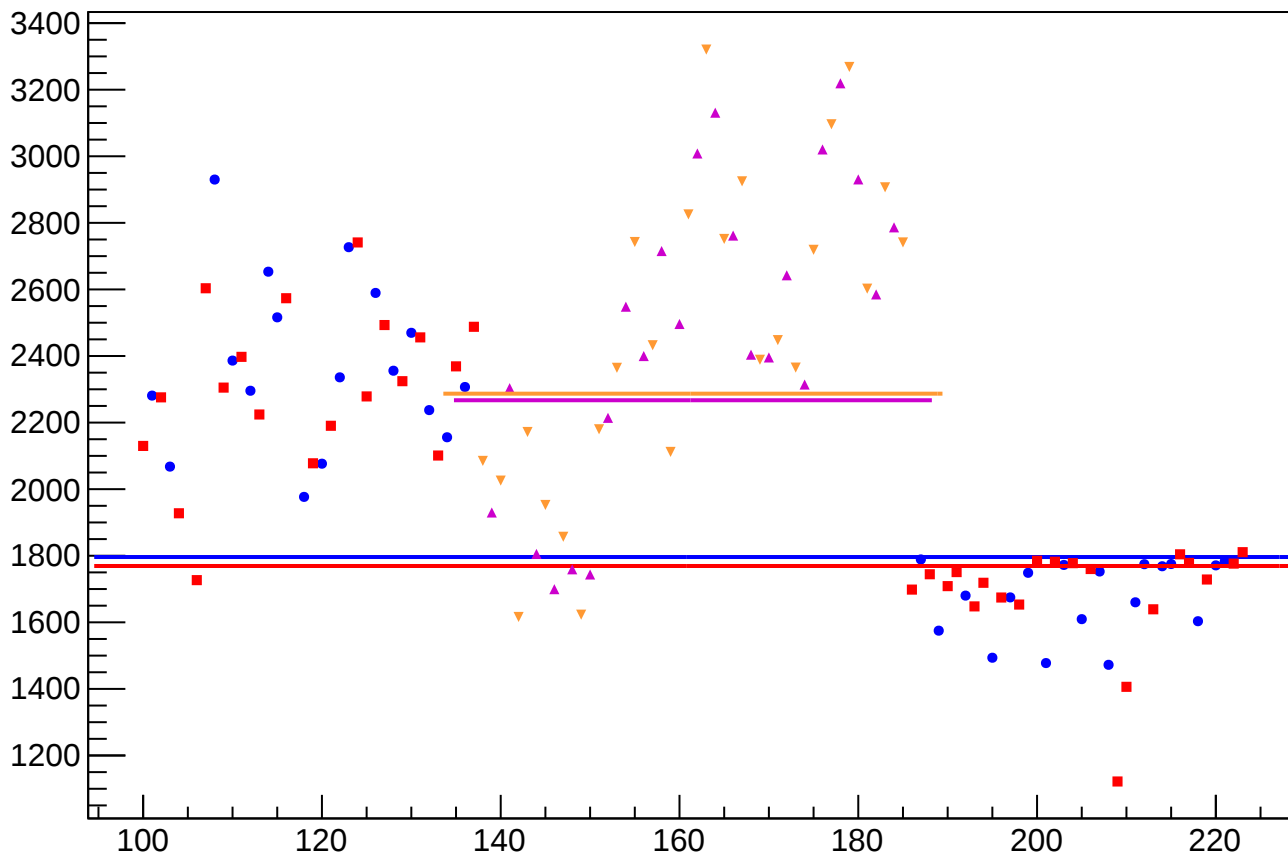
Right: 24.598+/-0.285 χ^2/NDF : 43565.4/73

In: 24.039+/-0.330 χ^2/NDF : 35902.8/57

Out: -6.570+/-0.320 χ^2/NDF : 22761.0/63

All: 8.278+/-0.230 χ^2/NDF : 63092.0/121

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1796.173 $\pm$ 0.289 χ^2 /NDF: 1000265.9/34

Left Out: 2286.871 $\pm$ 0.385 χ^2 /NDF:1360490.8/24

Right Out: 1769.213 $\pm$ 0.280 χ^2 /NDF: 1359006.7/38

Left In: 2267.097 $\pm$ 0.395 χ^2 /NDF:1313364.4/22

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

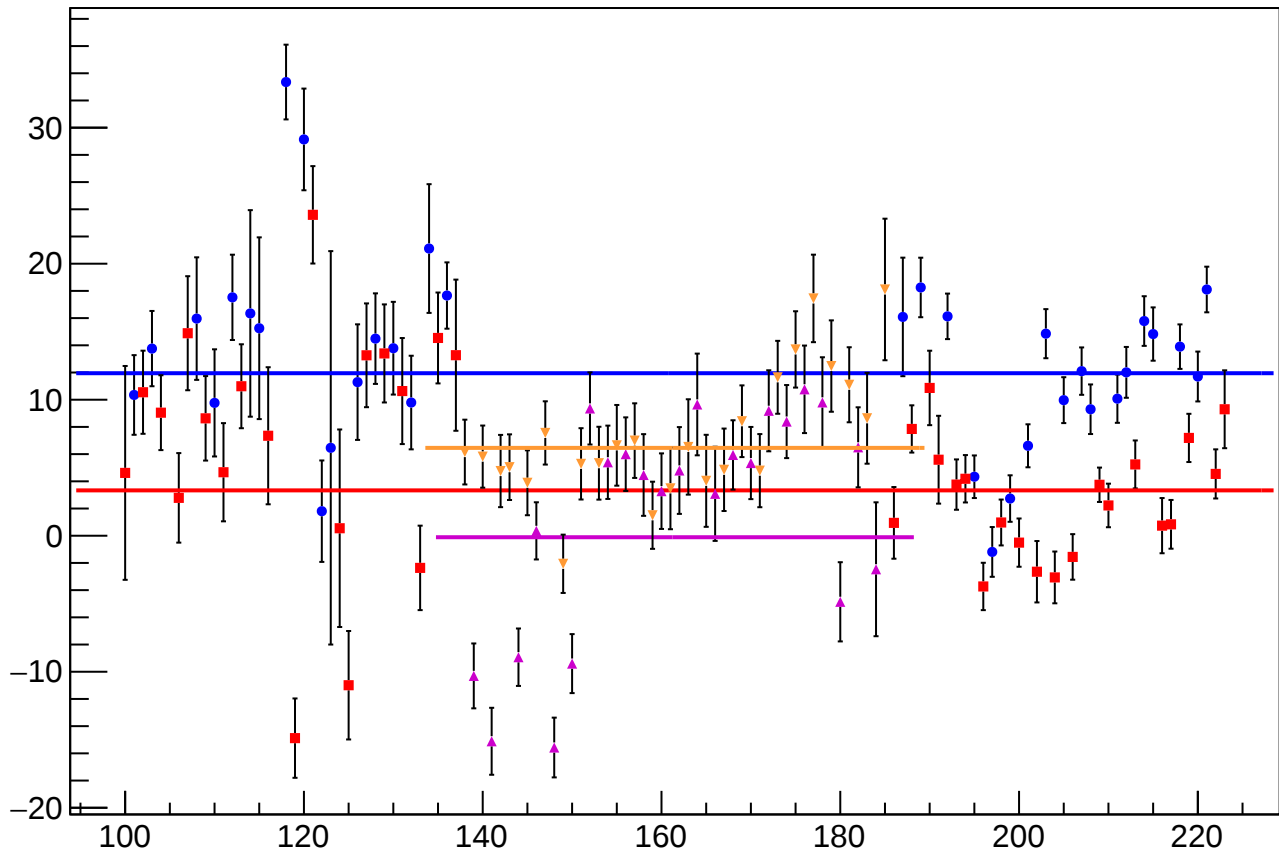
Right: 1782.262 $\pm$ 0.201 χ^2 /NDF: 2363751.3/73

In: 1960.742 $\pm$ 0.233 χ^2 /NDF:3239155.5/57

Out: 1948.643 $\pm$ 0.227 χ^2 /NDF:3902006.9/63

All: 1954.512 $\pm$ 0.163 χ^2 /NDF: 7142546.2/12

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.949 $\pm$ 0.382 χ^2/NDF : 265.3/34

Left Out: 6.458 $\pm$ 0.548 χ^2/NDF : 58.7/24

Right Out: 3.334 $\pm$ 0.372 χ^2/NDF : 228.1/38

Left In: -0.110 $\pm$ 0.565 χ^2/NDF : 234.6/22

Left: 3.278 $\pm$ 0.393 χ^2/NDF : 363.0/47

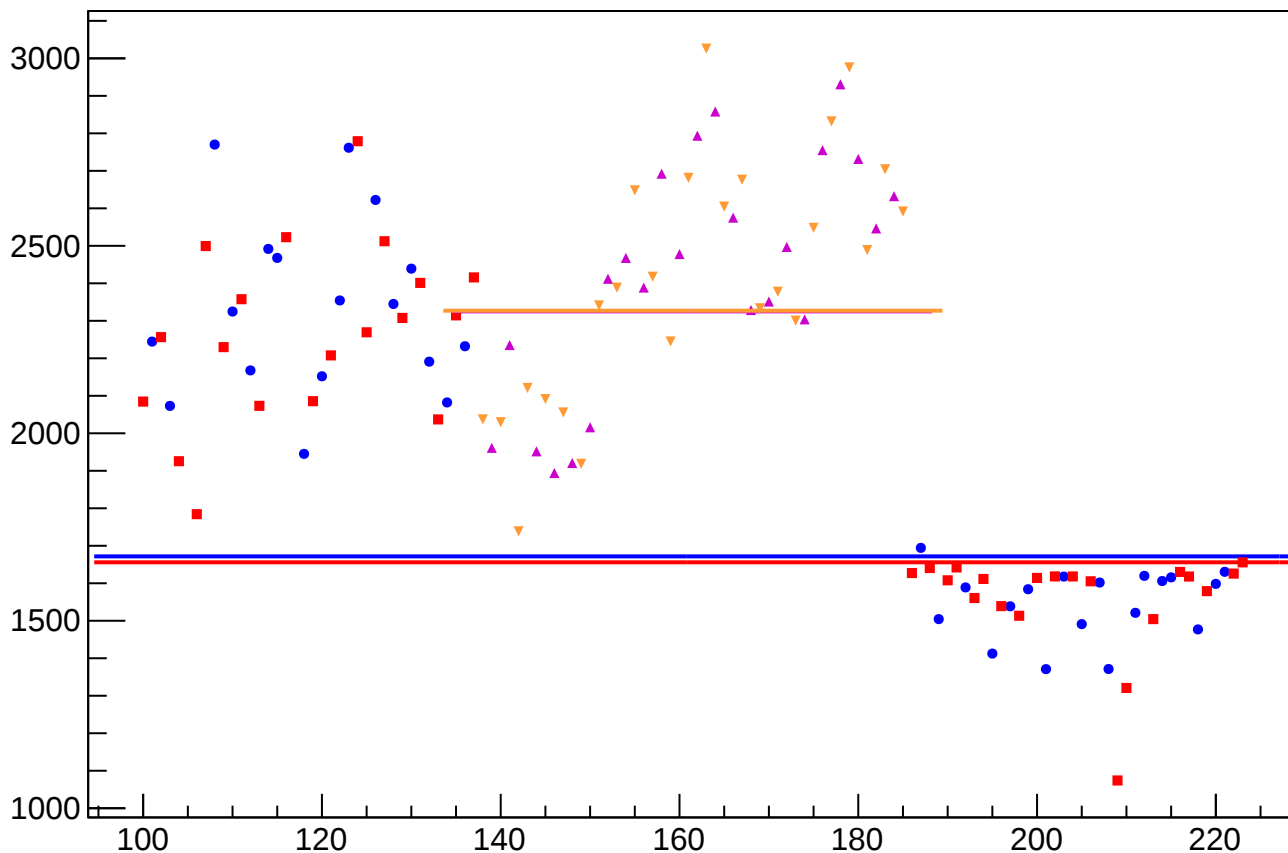
Right: 7.526 $\pm$ 0.266 χ^2/NDF : 754.7/73

In: 8.169 $\pm$ 0.316 χ^2/NDF : 812.5/57

Out: 4.320 $\pm$ 0.308 χ^2/NDF : 309.1/63

All: 6.190 $\pm$ 0.221 χ^2/NDF : 1197.7/121

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1671.725+/-0.270

χ^2/NDF : 1270010.5/34

Left Out: 2327.044+/-0.387

χ^2/NDF : 646706.7/24

Right Out: 1655.924+/-0.263

χ^2/NDF : 1563717.2/38

Left In: 2325.175+/-0.400

χ^2/NDF : 610729.2/22

Left: 2326.139+/-0.278

χ^2/NDF : 1257447.2/47

Right: 1663.612+/-0.188

χ^2/NDF : 2835486.1/73

In: 1876.511+/-0.224

χ^2/NDF : 3716548.9/57

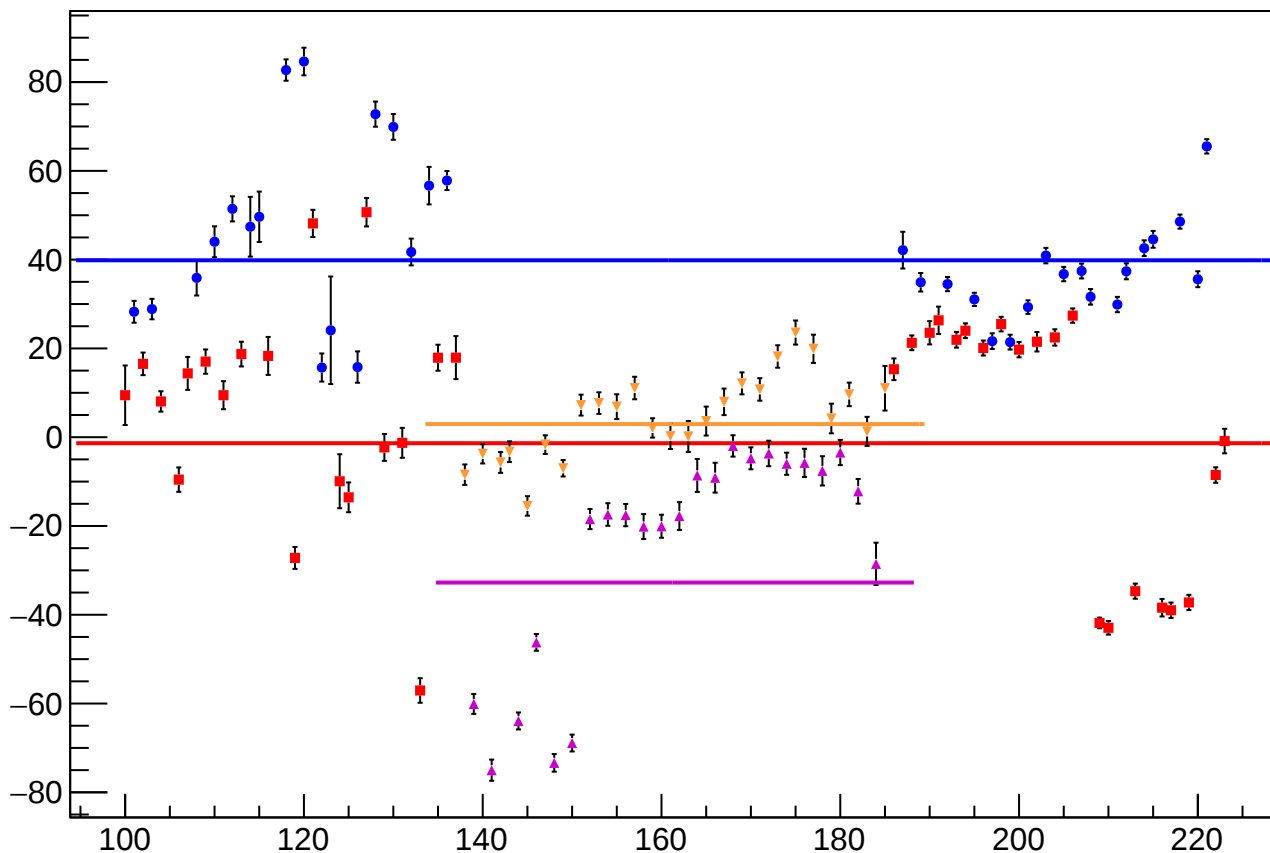
Out: 1867.621+/-0.217

χ^2/NDF : 4267164.2/63

All: 1871.940+/-0.156

χ^2/NDF : 7984525.0/12

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 39.858 ± 0.360 $\chi^2/\text{NDF}: 1713.4/34$

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

Right Out: -1.354 ± 0.349 $\chi^2/\text{NDF}: 6847.0/38$

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

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

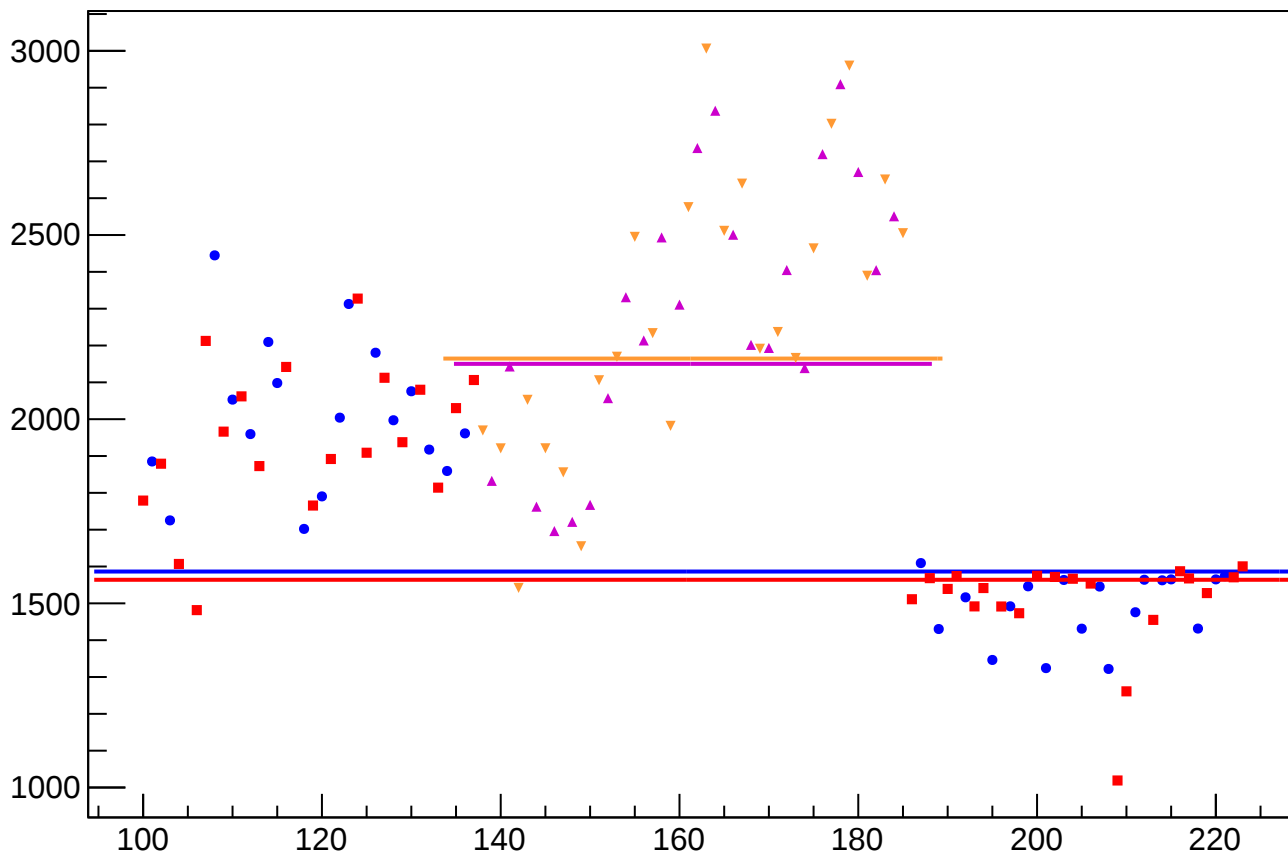
Right: 18.611 ± 0.251 $\chi^2/\text{NDF}: 15313.9/73$

In: 16.699 ± 0.297 $\chi^2/\text{NDF}: 17314.6/57$

Out: 0.013 ± 0.288 $\chi^2/\text{NDF}: 7233.1/63$

All: 8.106 ± 0.207 $\chi^2/\text{NDF}: 26171.5/121$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1586.378 $\pm$ 0.255 χ^2 /NDF: 764611.3/34

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

Right Out: 1563.973 $\pm$ 0.247 χ^2 /NDF: 1082383.1/38

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

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

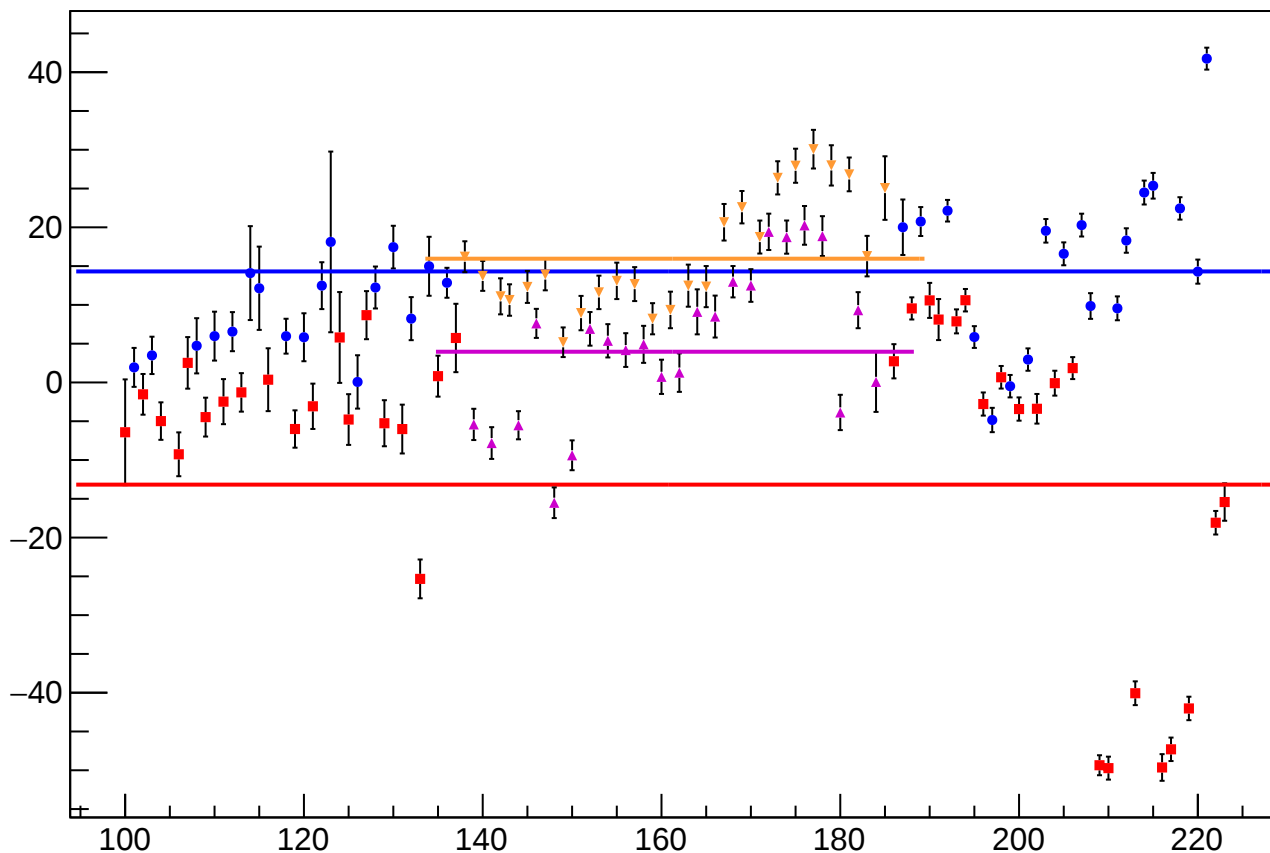
Right: 1574.827 $\pm$ 0.177 χ^2 /NDF: 1850986.7/73

In: 1766.222 $\pm$ 0.210 χ^2 /NDF: 3240642.2/57

Out: 1754.572 $\pm$ 0.204 χ^2 /NDF: 3927249.2/63

All: 1760.223 $\pm$ 0.146 χ^2 /NDF: 7169474.6/12

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 14.314 $\pm$ 0.325 χ^2/NDF : 1062.7/34

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

Right Out: -13.173 $\pm$ 0.318 χ^2/NDF : 4648.0/38

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

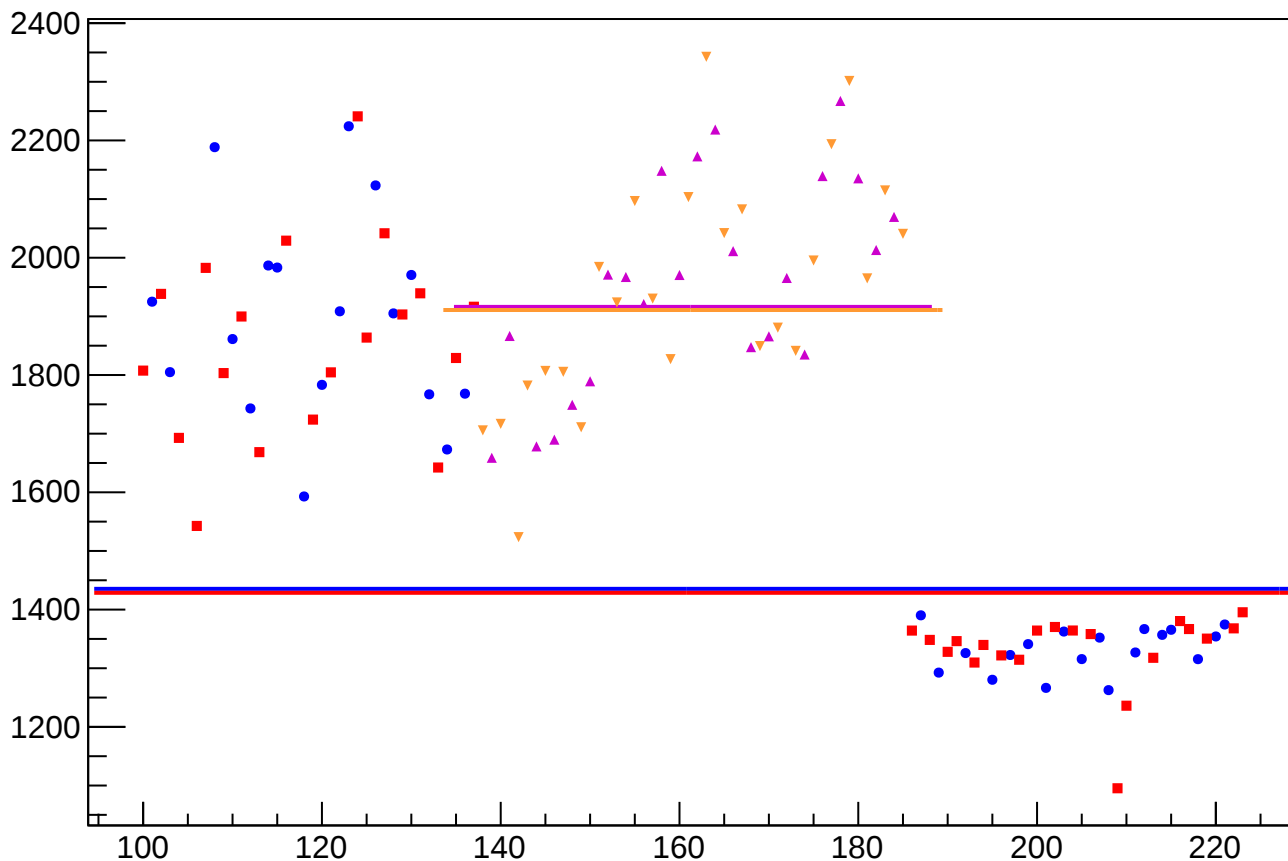
Right: 0.249 $\pm$ 0.227 χ^2/NDF : 9363.0/73

In: 10.889 $\pm$ 0.266 χ^2/NDF :1862.5/57

Out: -3.404 $\pm$ 0.259 χ^2/NDF :7710.4/63

All: 3.551 $\pm$ 0.186 χ^2/NDF : 11053.6/121

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1435.392 $\pm$ 0.230 χ^2 /NDF: 908024.2/34

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

Right Out: 1428.637 $\pm$ 0.225 χ^2 /NDF: 989825.1/38

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

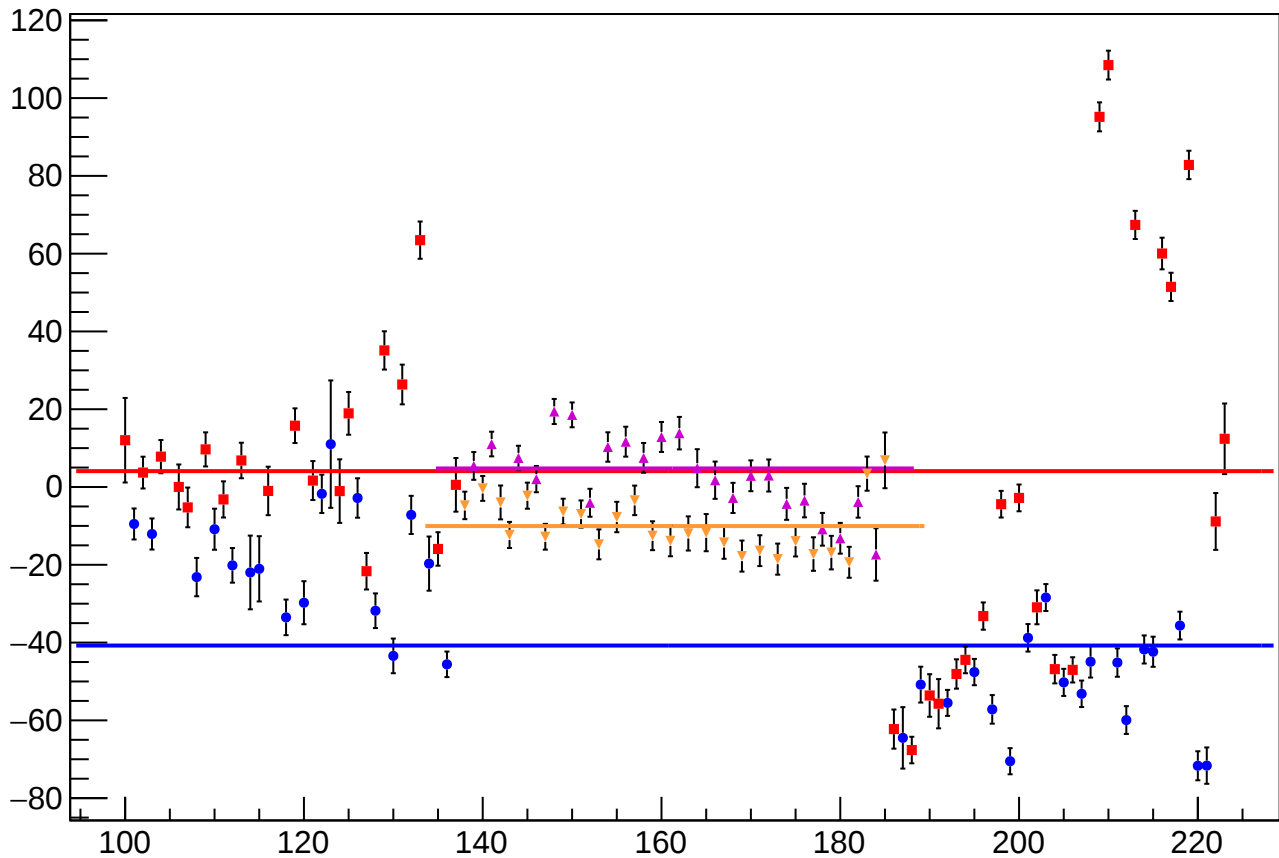
Right: 1431.935 $\pm$ 0.161 χ^2 /NDF: 1898290.5/73

In: 1594.393 $\pm$ 0.188 χ^2 /NDF: 2626641.1/57

Out: 1590.368 $\pm$ 0.183 χ^2 /NDF: 2862942.2/63

All: 1592.326 $\pm$ 0.131 χ^2 /NDF: 5489818.0/12

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.762±0.710 χ^2/NDF : 701.7/34

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

Right Out: 4.084±0.704 χ^2/NDF : 4646.2/38

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

Left: -2.861±0.557 χ^2/NDF : 372.2/47

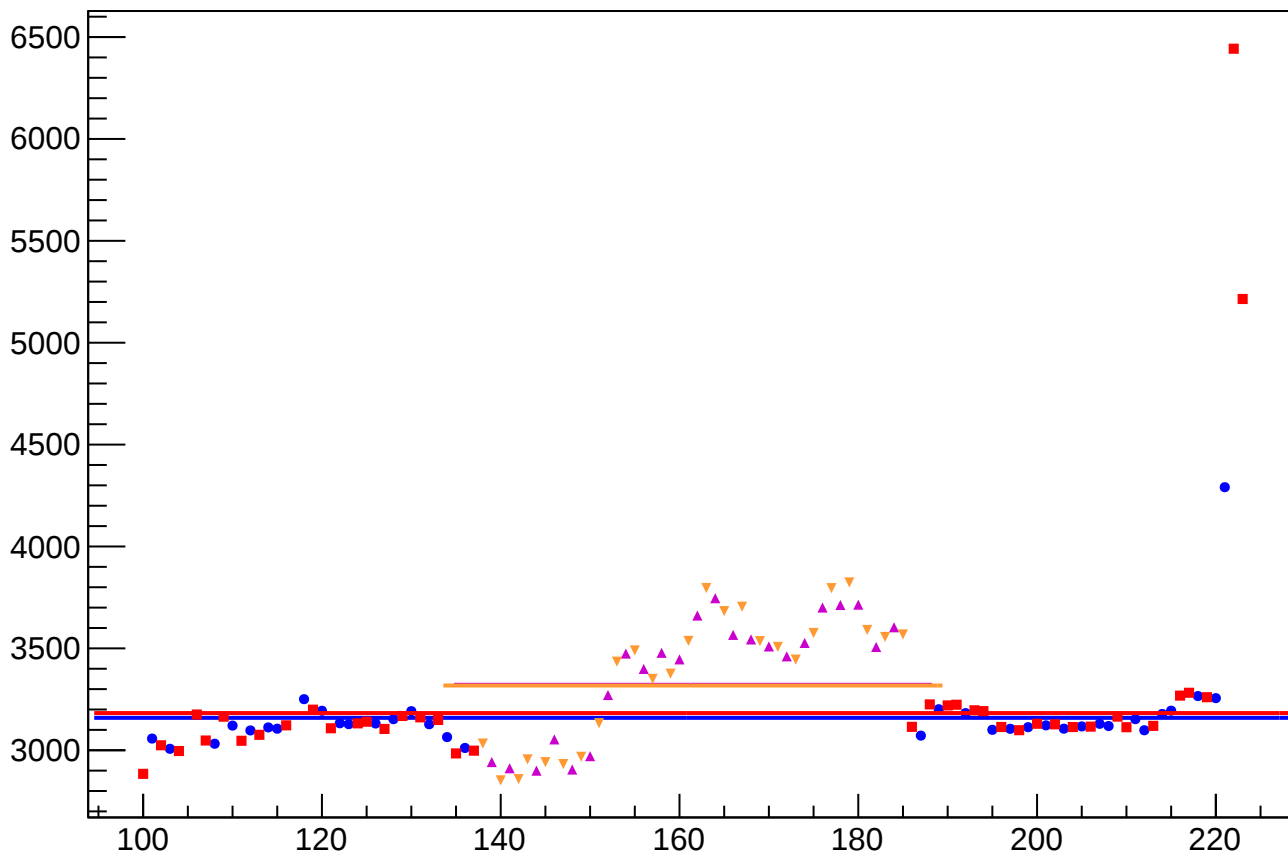
Right: -18.150±0.500 χ^2/NDF : 7361.1/73

In: -20.721±0.531 χ^2/NDF : 2642.0/57

Out: -2.288±0.521 χ^2/NDF : 4895.0/63

All: -11.335±0.372 χ^2/NDF : 8150.5/121

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3159.111 $\pm$ 0.502 χ^2/NDF : 136272.3/34

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

Right Out: 3182.511 $\pm$ 0.498 χ^2/NDF : 527996.4/38

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

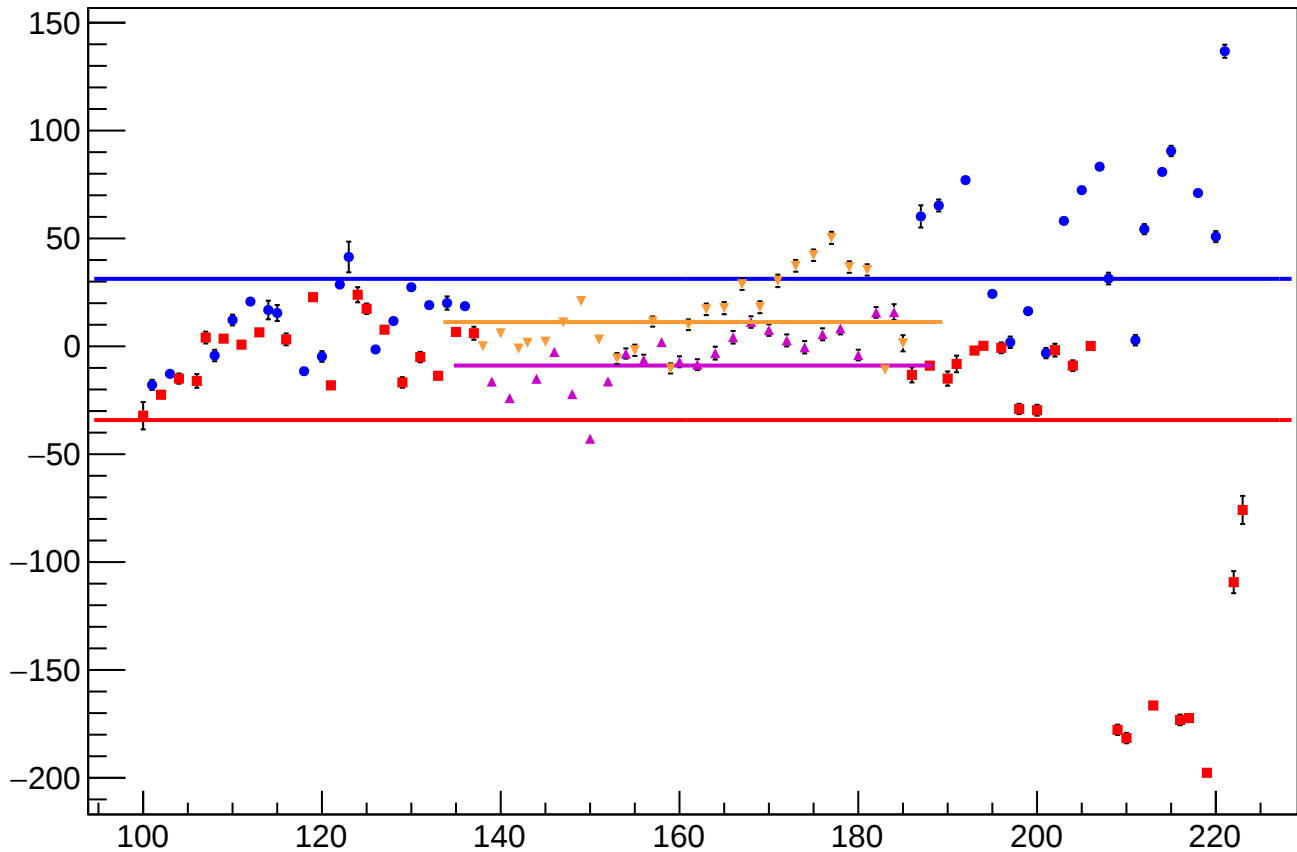
Right: 3170.910 $\pm$ 0.353 χ^2/NDF : 665364.9/73

In: 3230.482 $\pm$ 0.376 χ^2/NDF : 466562.3/57

Out: 3243.490 $\pm$ 0.369 χ^2/NDF : 898163.9/63

All: 3237.105 $\pm$ 0.263 χ^2/NDF : 1365337.2/12

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 31.282 ± 0.402 $\chi^2/\text{NDF}: 7159.6/34$

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

Right Out: -34.174 ± 0.396 $\chi^2/\text{NDF}: 28715.3/38$

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

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

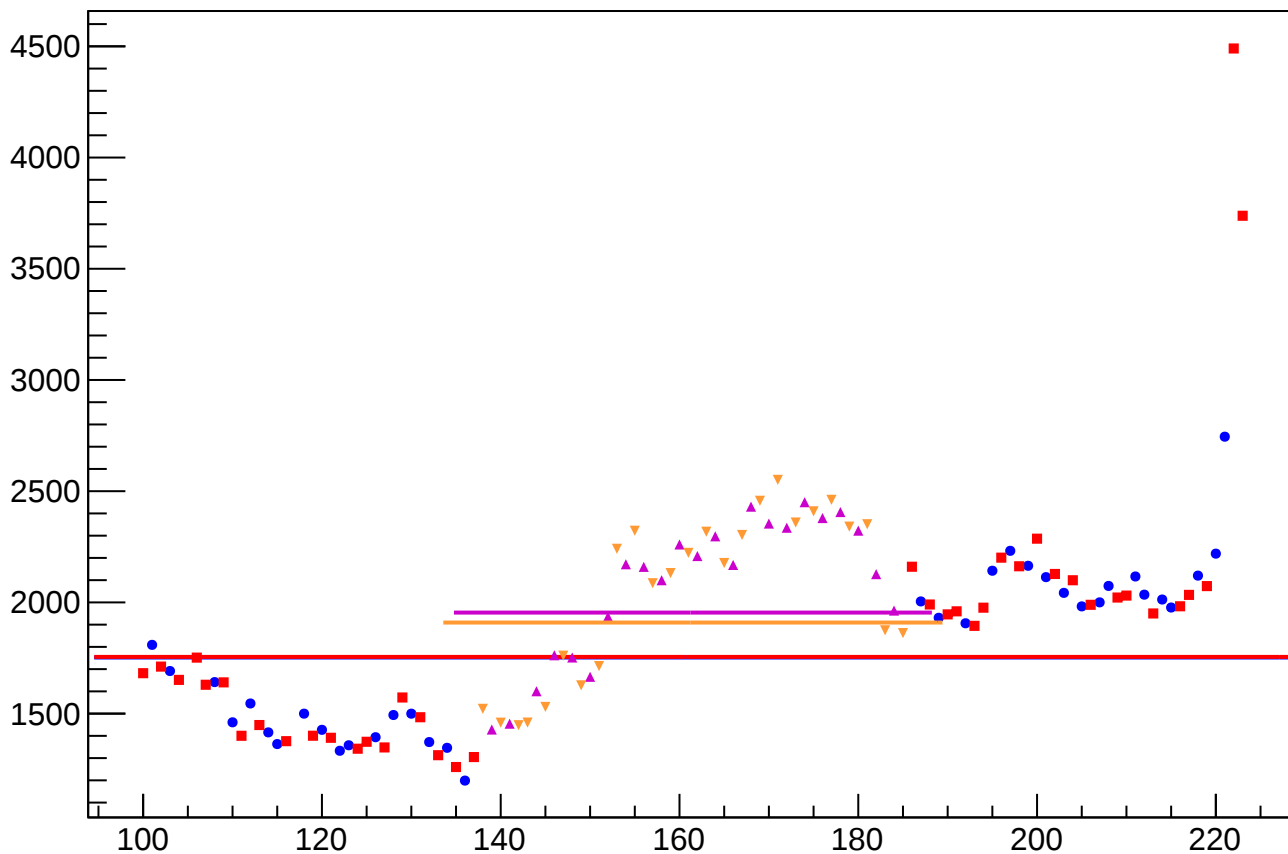
Right: -1.928 ± 0.282 $\chi^2/\text{NDF}: 49316.4/73$

In: 14.607 ± 0.308 $\chi^2/\text{NDF}: 12239.5/57$

Out: -14.542 ± 0.299 $\chi^2/\text{NDF}: 35538.3/63$

All: -0.398 ± 0.214 $\chi^2/\text{NDF}: 52400.4/121$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1752.329 ± 0.284 χ^2/NDF : 1603497.9/34

Left Out: 1909.387 ± 0.321 χ^2/NDF : 1398498.0/24

Right Out: 1754.958 ± 0.280 χ^2/NDF : 2056856.3/38

Left In: 1954.236 ± 0.338 χ^2/NDF : 1044826.7/22

Left: 1930.697 ± 0.233 χ^2/NDF : 2452584.2/47

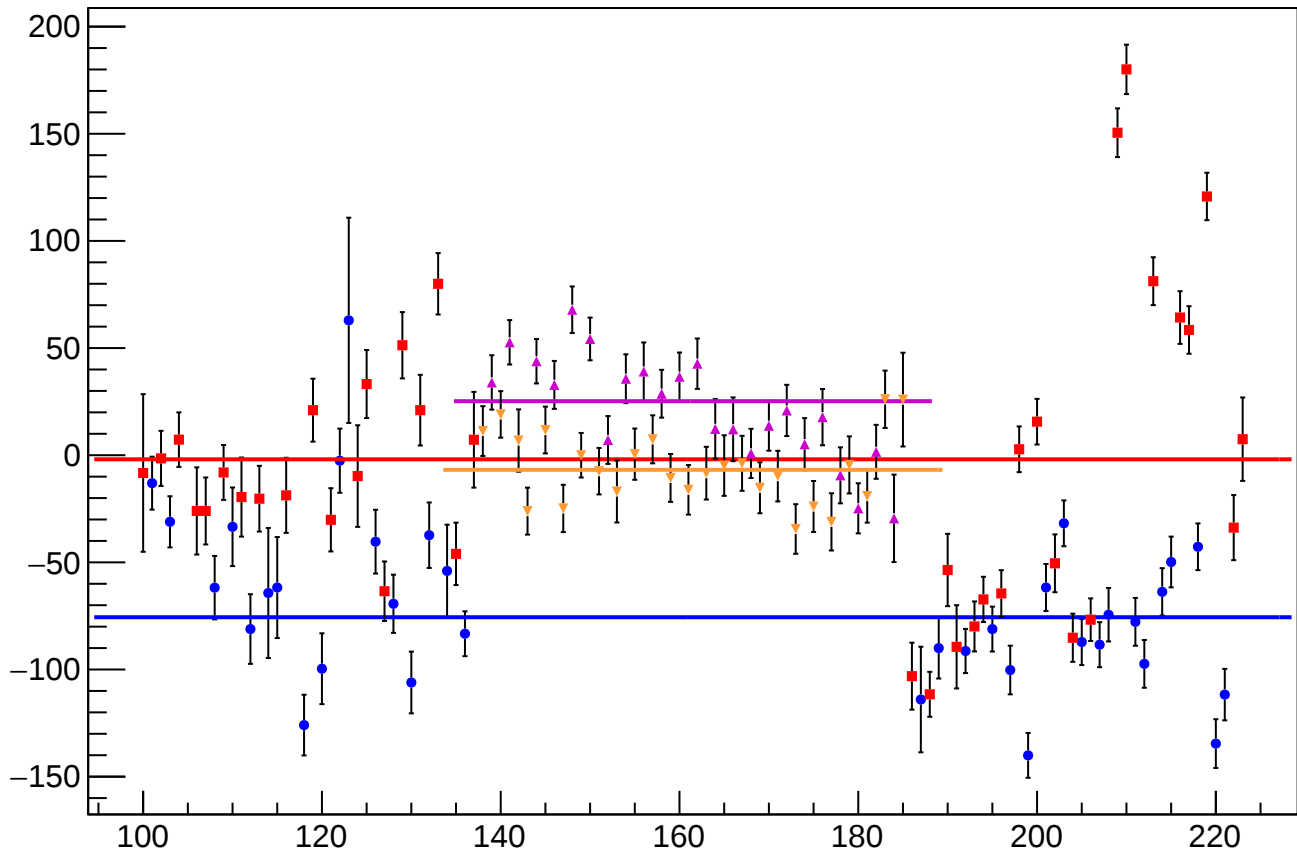
Right: 1753.663 ± 0.200 χ^2/NDF : 3660397.6/73

In: 1836.108 ± 0.218 χ^2/NDF : 2857518.6/57

Out: 1821.675 ± 0.211 χ^2/NDF : 3586578.4/63

All: 1828.678 ± 0.152 χ^2/NDF : 6446363.8/12

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -75.607 $\pm$ 2.186 χ^2/NDF : 235.8/34

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

Right Out: -1.905 $\pm$ 2.161 χ^2/NDF : 1188.9/38

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

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

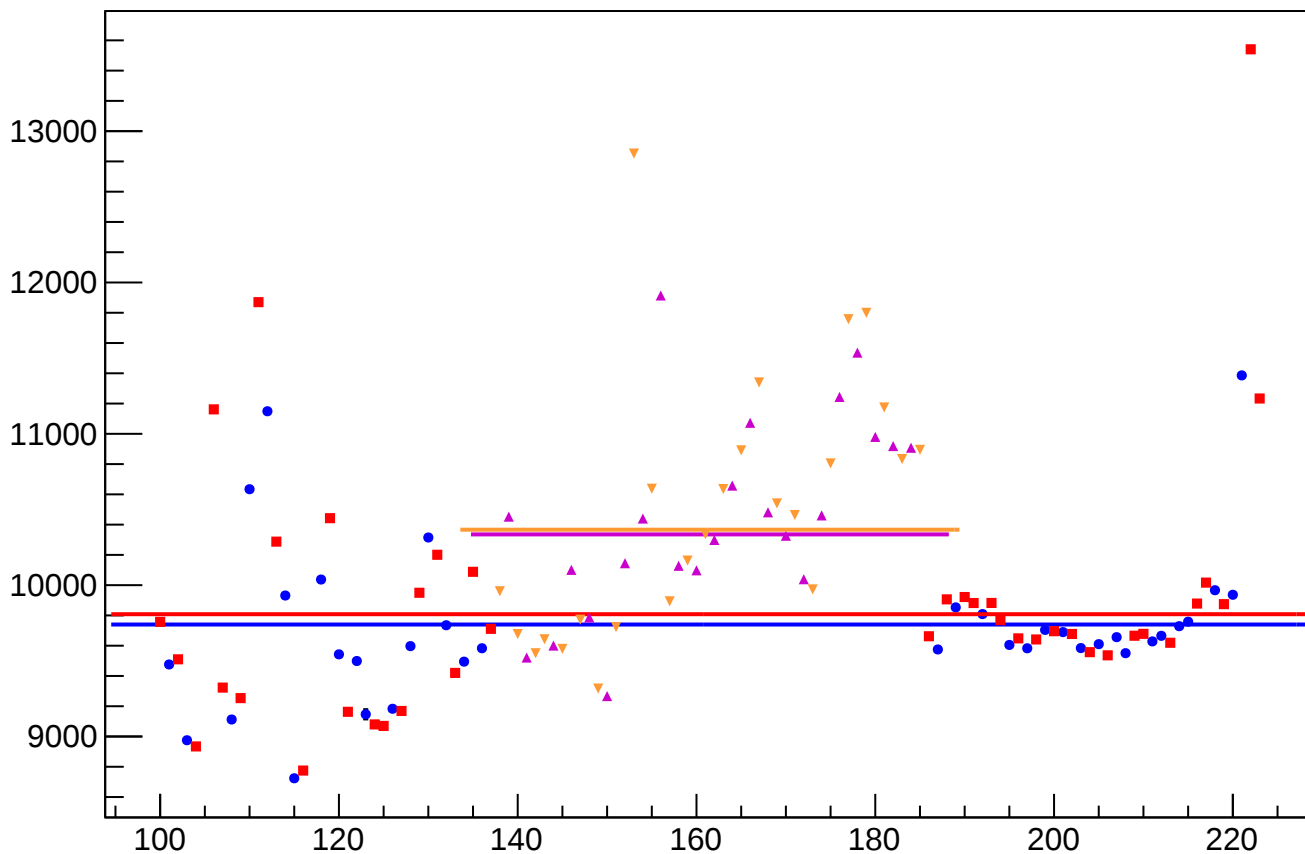
Right: -38.343 $\pm$ 1.537 χ^2/NDF : 1999.6/73

In: -31.661 $\pm$ 1.642 χ^2/NDF : 1252.5/57

Out: -4.085 $\pm$ 1.613 χ^2/NDF : 1233.6/63

All: -17.628 $\pm$ 1.150 χ^2/NDF : 2629.6/121

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9739.991 ± 1.546 $\chi^2/\text{NDF}: 86947.2/34$

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

Right Out: 9808.136 ± 1.528 $\chi^2/\text{NDF}: 218428.3/38$

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

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

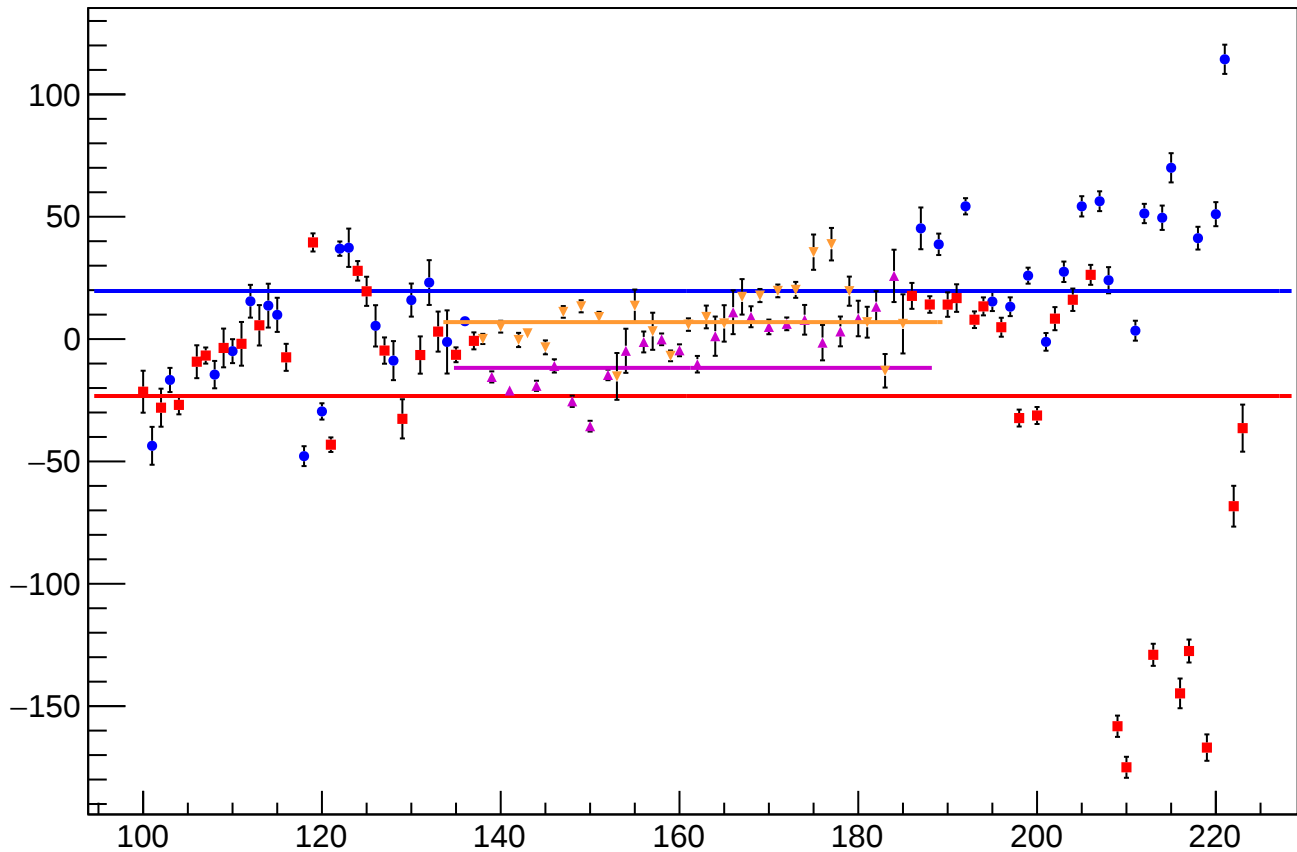
Right: 9774.445 ± 1.087 $\chi^2/\text{NDF}: 306358.4/73$

In: 9999.518 ± 1.161 $\chi^2/\text{NDF}: 278807.4/57$

Out: 10055.627 ± 1.140 $\chi^2/\text{NDF}: 488996.0/63$

All: 10028.071 ± 0.814 $\chi^2/\text{NDF}: 768992.3/12$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 19.652 $\pm$ 0.733 χ^2/NDF : 1626.4/34

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

Right Out: -23.263 $\pm$ 0.732 χ^2/NDF : 5910.9/38

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

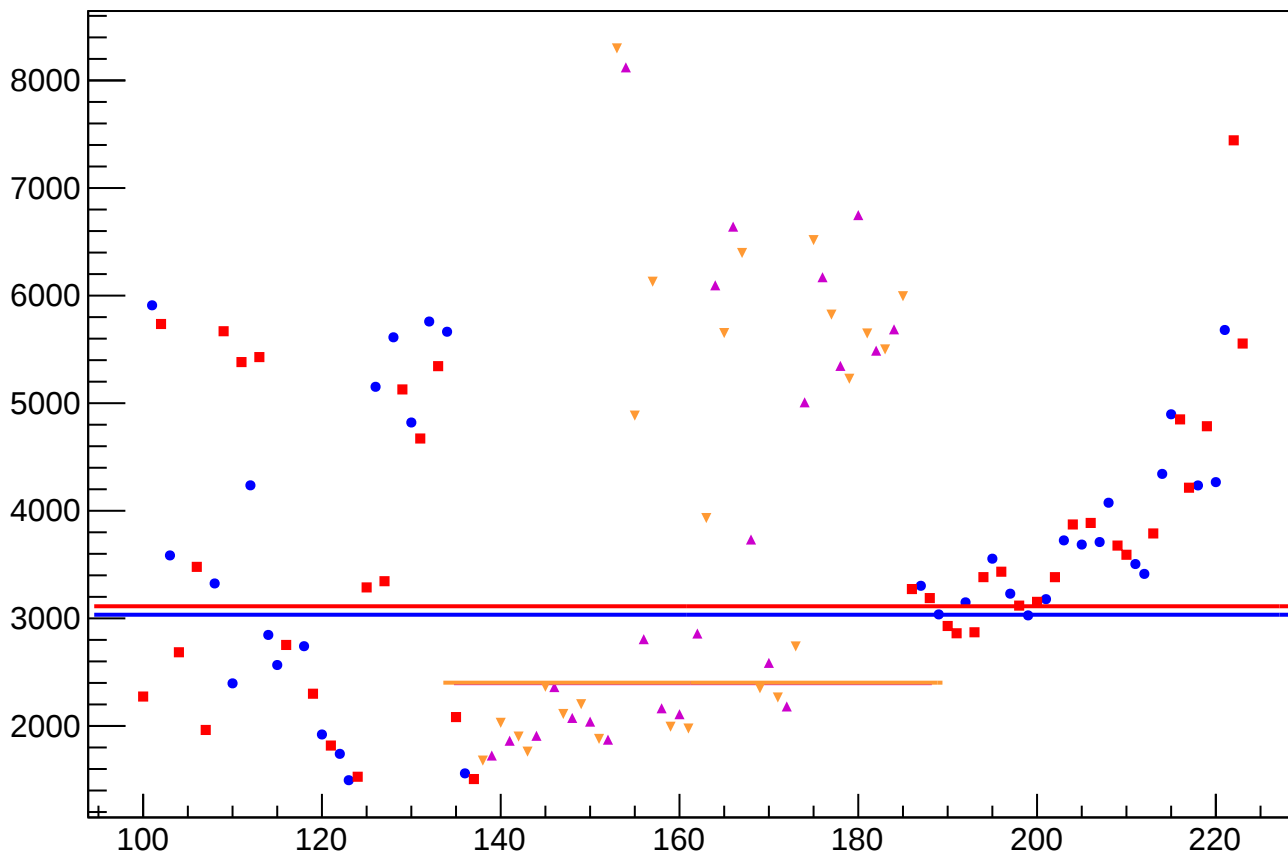
Right: -1.857 $\pm$ 0.518 χ^2/NDF : 9253.7/73

In: 2.018 $\pm$ 0.486 χ^2/NDF : 3051.7/57

Out: -6.125 $\pm$ 0.481 χ^2/NDF : 7081.8/63

All: -2.092 $\pm$ 0.342 χ^2/NDF : 10275.4/121

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 3033.799 ± 0.519 $\chi^2/\text{NDF}: 4634837.3/34$

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

Right Out: 3112.573 ± 0.517 $\chi^2/\text{NDF}: 4256074.7/38$

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

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

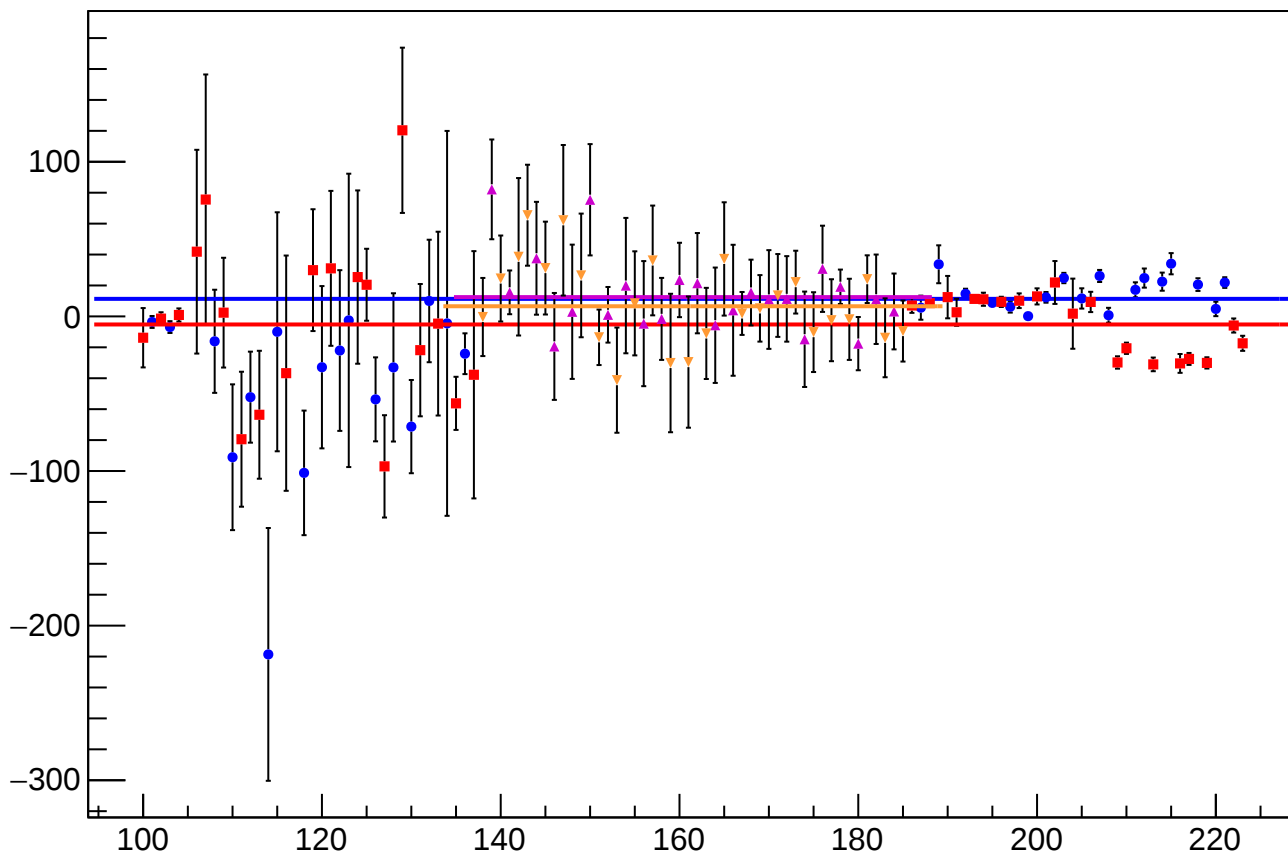
Right: 3073.280 ± 0.366 $\chi^2/\text{NDF}: 8902478.1/73$

In: 2676.769 ± 0.343 $\chi^2/\text{NDF}: 10878339.1/57$

Out: 2709.569 ± 0.340 $\chi^2/\text{NDF}: 11671586.3/63$

All: 2693.324 ± 0.242 $\chi^2/\text{NDF}: 22554528.5/121$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 11.343 $\pm$ 0.932 χ^2 /NDF: 179.1/34

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

Right Out: -5.225 $\pm$ 0.943 χ^2 /NDF: 355.2/38

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

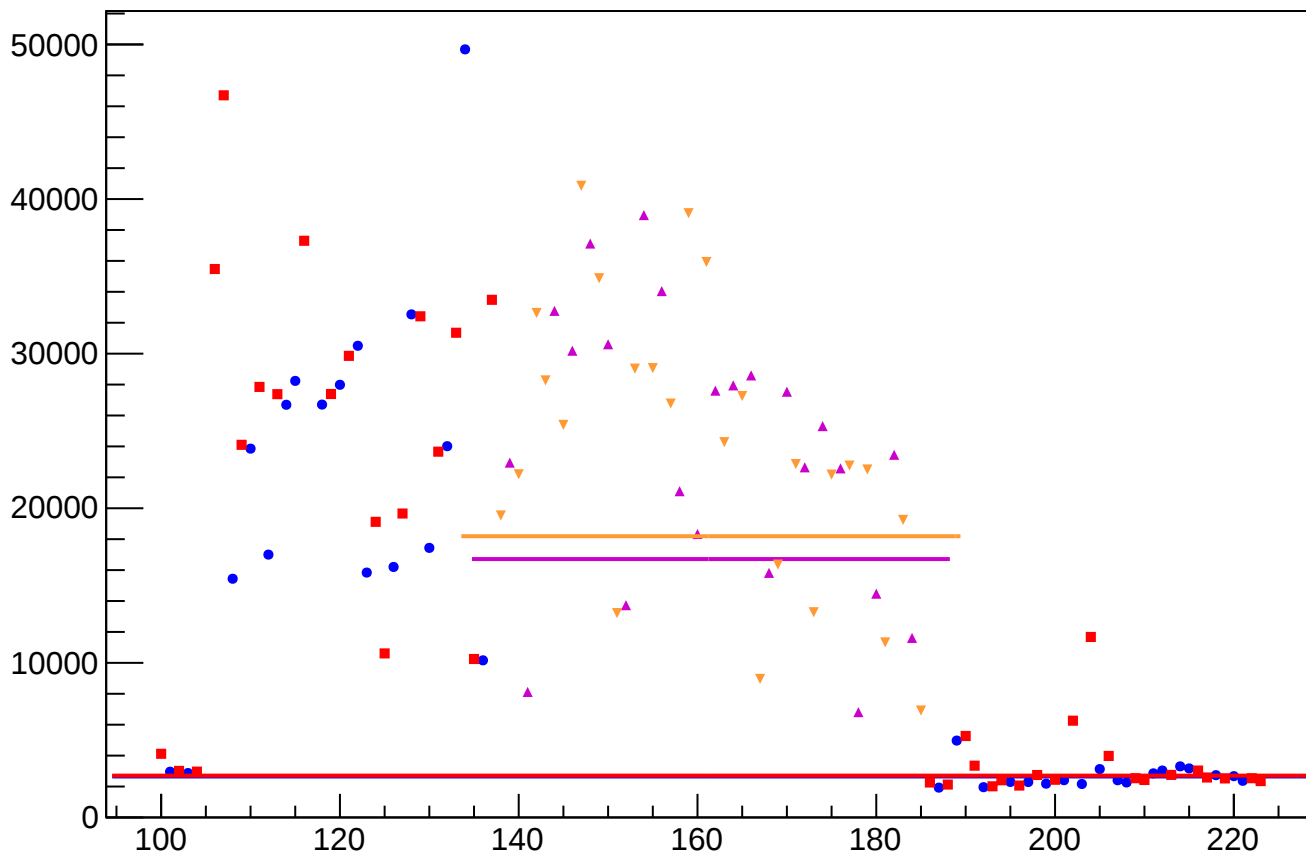
Right: 3.160 $\pm$ 0.663 χ^2 /NDF: 690.3/73

In: 11.380 $\pm$ 0.916 χ^2 /NDF:194.5/57

Out: -4.831 $\pm$ 0.928 χ^2 /NDF:377.1/63

All: 3.373 $\pm$ 0.652 χ^2 /NDF: 726.2/121

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2652.309+/-0.659 χ^2/NDF : 7061704.5/34

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

Right Out: 2705.486+/-0.667 χ^2/NDF : 9108629.9/38

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

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

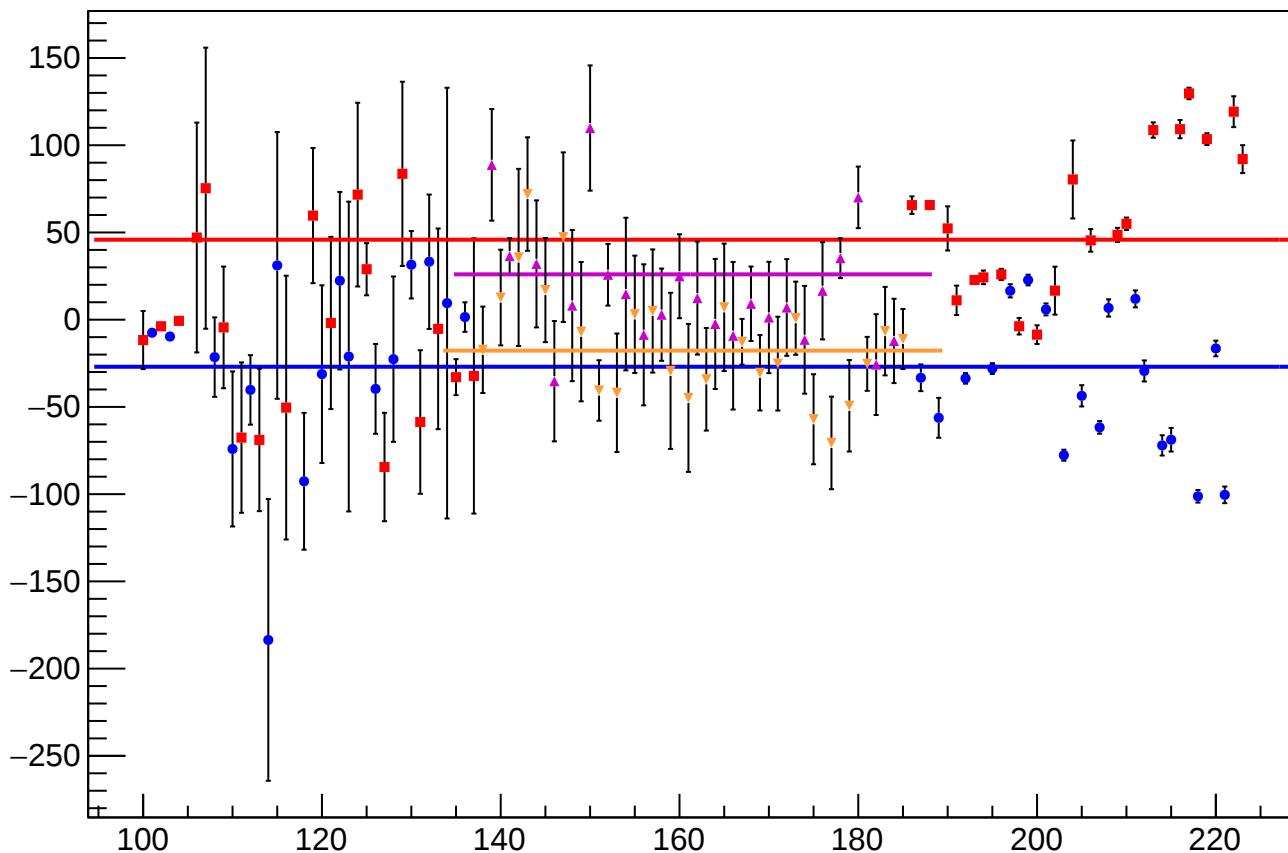
Right: 2678.573+/-0.469 χ^2/NDF : 16173550.4/73

In: 3119.858+/-0.648 χ^2/NDF : 28394192.8/57

Out: 3222.235+/-0.656 χ^2/NDF : 32351163.3/63

All: 3170.425+/-0.461 χ^2/NDF : 60757686.8/1

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -26.974 $\pm$ 0.859 χ^2/NDF : 1866.9/34

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

Right Out: 45.843 $\pm$ 0.875 χ^2/NDF : 2527.1/38

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

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

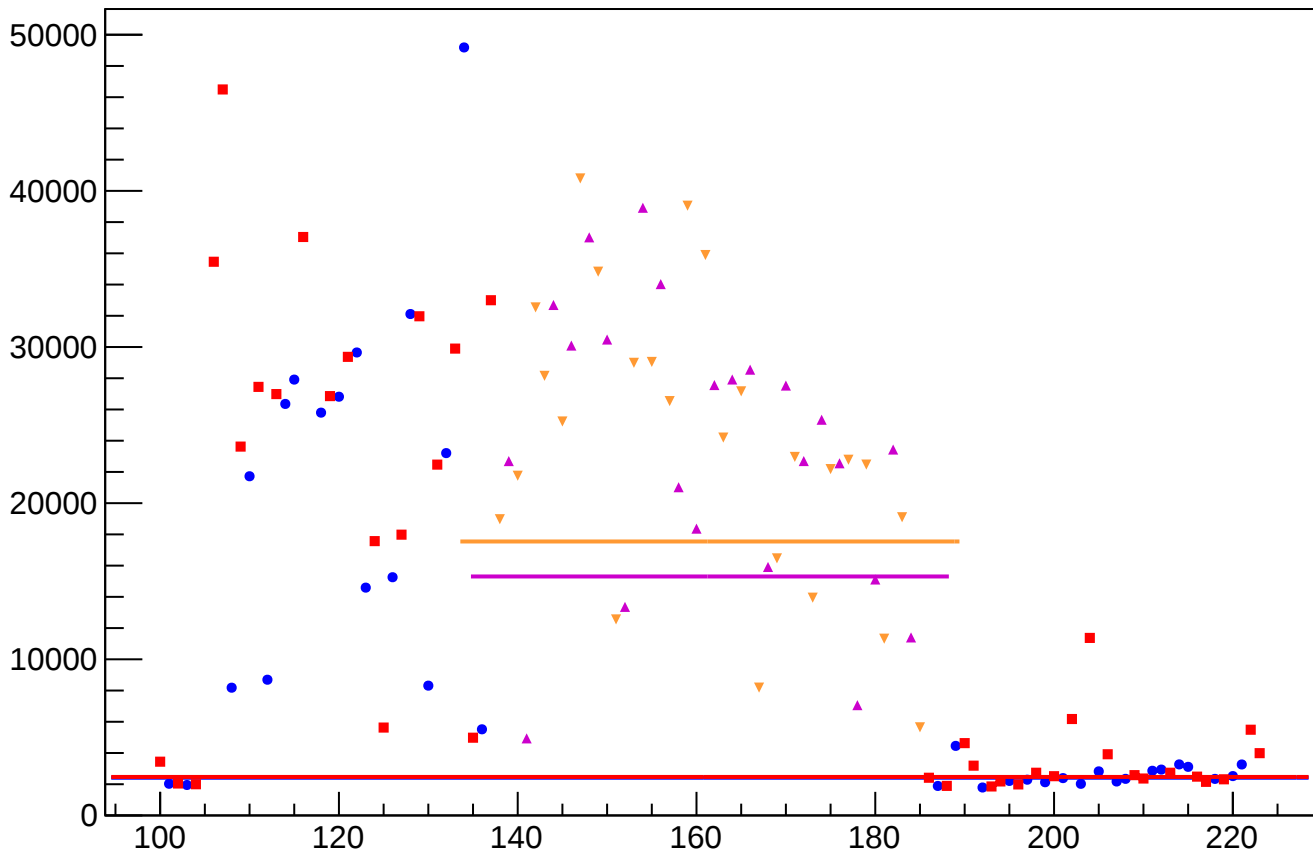
Right: 8.761 $\pm$ 0.613 χ^2/NDF : 7922.9/73

In: -25.324 $\pm$ 0.845 χ^2/NDF :2018.0/57

Out: 43.936 $\pm$ 0.862 χ^2/NDF :2712.6/63

All: 8.645 $\pm$ 0.603 χ^2/NDF : 8023.9/121

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2418.013 ± 0.607 $\chi^2/\text{NDF}: 5995989.5/34$

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

Right Out: 2466.114 ± 0.619 $\chi^2/\text{NDF}: 9088858.9/38$

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

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

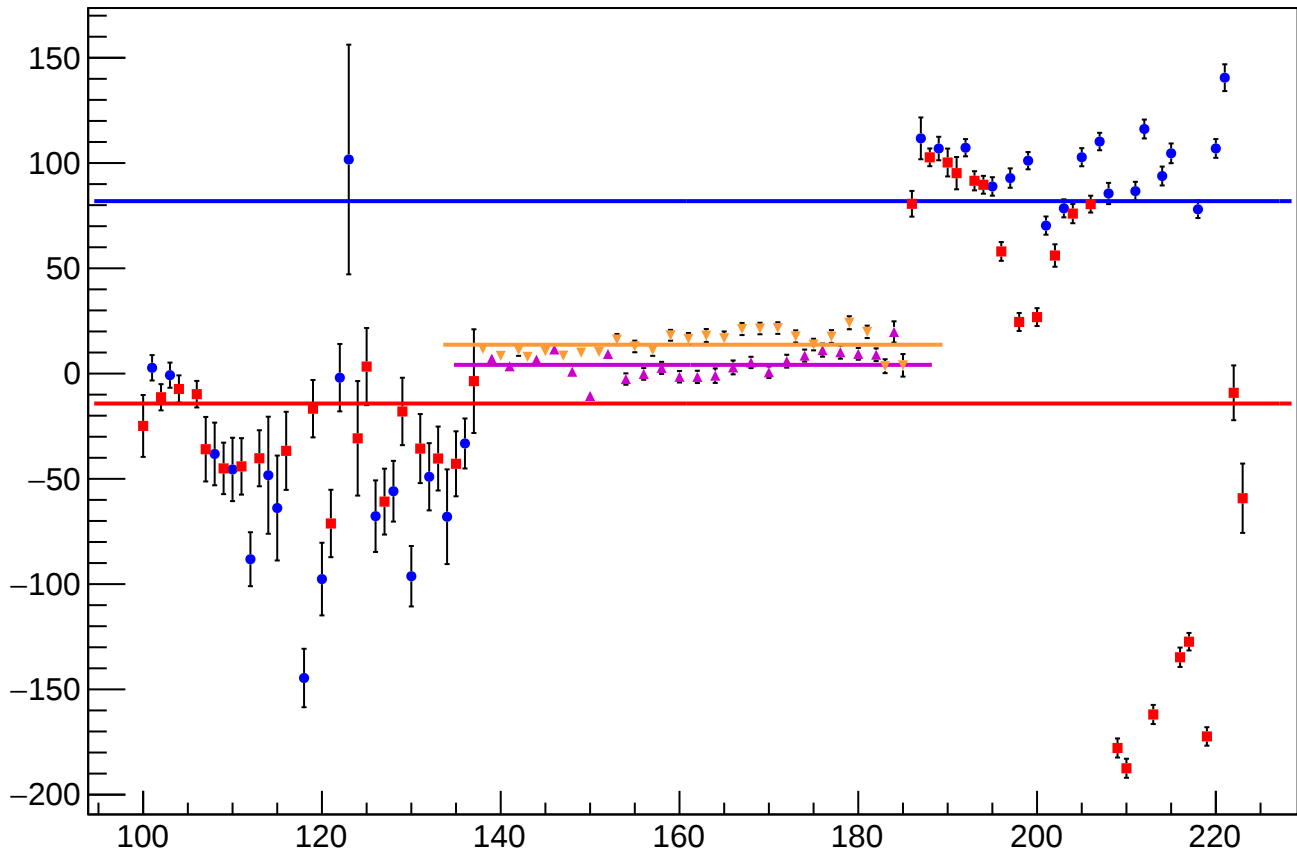
Right: 2441.618 ± 0.433 $\chi^2/\text{NDF}: 15087928.2/73$

In: 2819.461 ± 0.598 $\chi^2/\text{NDF}: 27749887.7/57$

Out: 2918.467 ± 0.609 $\chi^2/\text{NDF}: 32821746.7/63$

All: 2868.019 ± 0.427 $\chi^2/\text{NDF}: 60585093.3/121$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 81.907 $\pm$ 1.020 χ^2/NDF : 2046.5/34

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

Right Out: -14.221 $\pm$ -1.007 χ^2/NDF : 10823.9/38

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

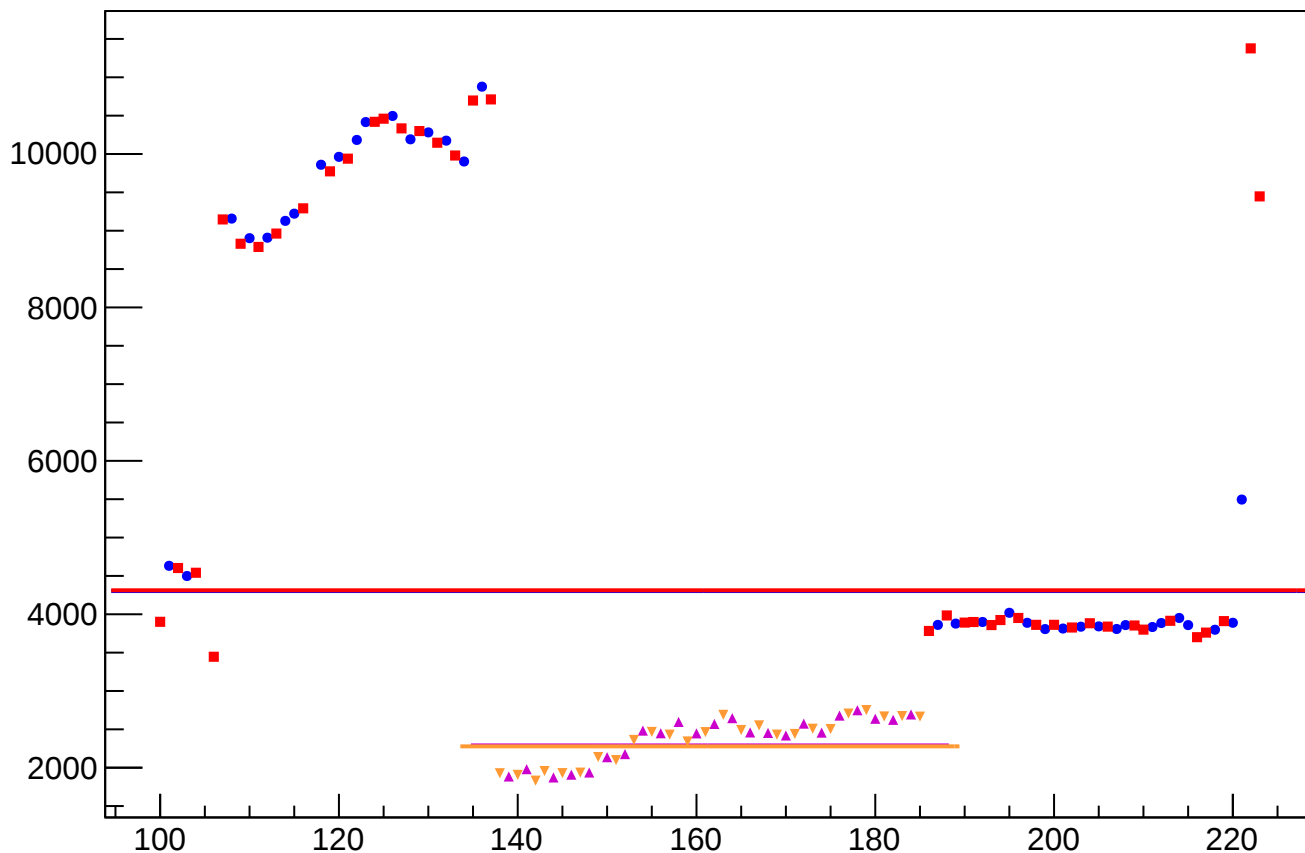
Right: 33.238 $\pm$ -0.717 χ^2/NDF : 17366.2/73

In: 21.892 $\pm$ -0.487 χ^2/NDF :6643.1/57

Out: 7.560 $\pm$ -0.473 χ^2/NDF :11513.3/63

All: 14.507 $\pm$ -0.339 χ^2/NDF : 18602.0/121

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4302.848 $\pm$ 0.721 χ^2 /NDF: 3980530.4/34

Left Out: 2278.115 $\pm$ 0.378 χ^2 /NDF: 607109.4/24

Right Out: 4312.514 $\pm$ 0.712 χ^2 /NDF: 4739515.4/38

Left In: 2290.461 $\pm$ 0.392 χ^2 /NDF: 590272.1/22

Left: 2284.067 $\pm$ 0.272 χ^2 /NDF: 1197894.4/47

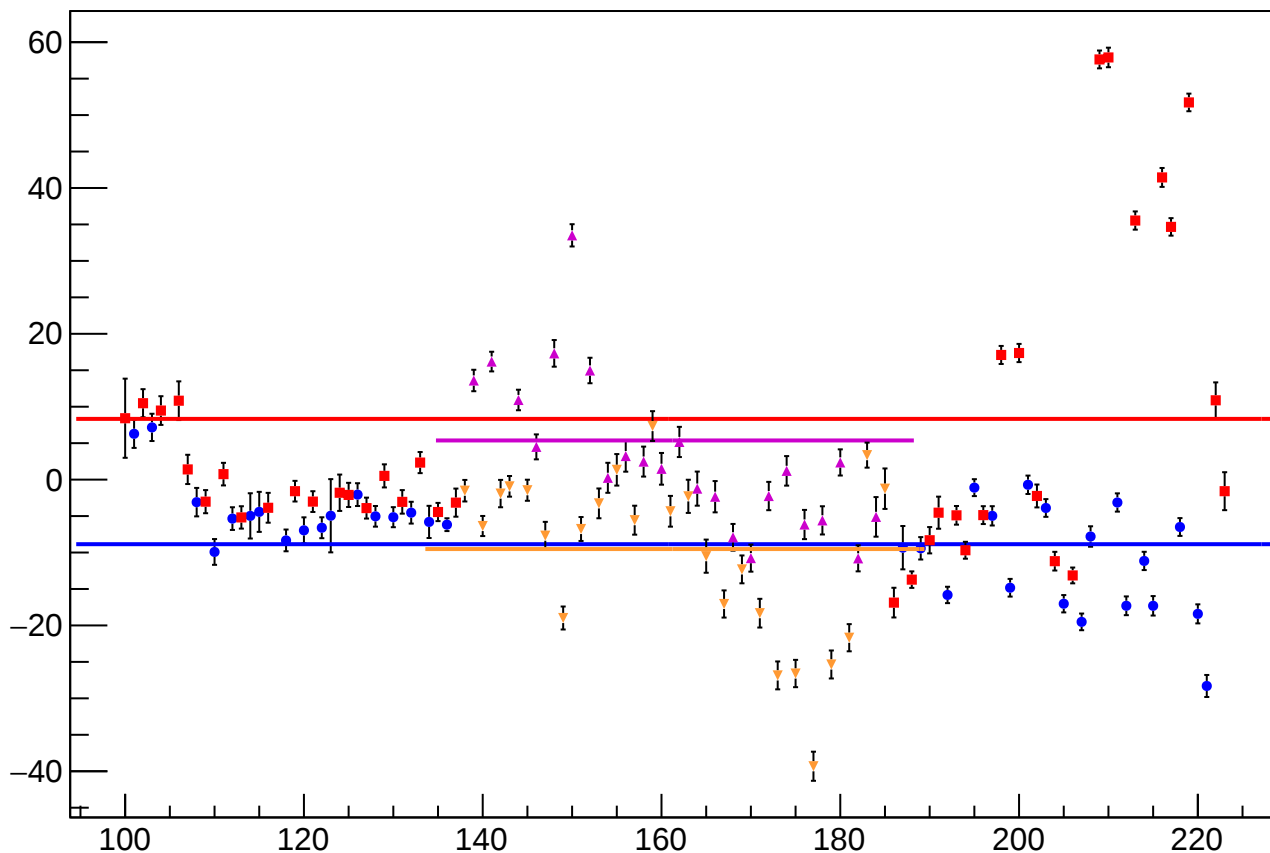
Right: 4307.742 $\pm$ 0.507 χ^2 /NDF: 8720136.7/73

In: 2749.819 $\pm$ 0.345 χ^2 /NDF: 10577247.9/57

Out: 2726.014 $\pm$ 0.334 χ^2 /NDF: 11707723.2/63

All: 2737.552 $\pm$ 0.240 χ^2 /NDF: 22287429.7/117

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -8.857 ± 0.241 $\chi^2/\text{NDF}: 850.3/34$

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

Right Out: 8.330 ± 0.239 $\chi^2/\text{NDF}: 8470.1/38$

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

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

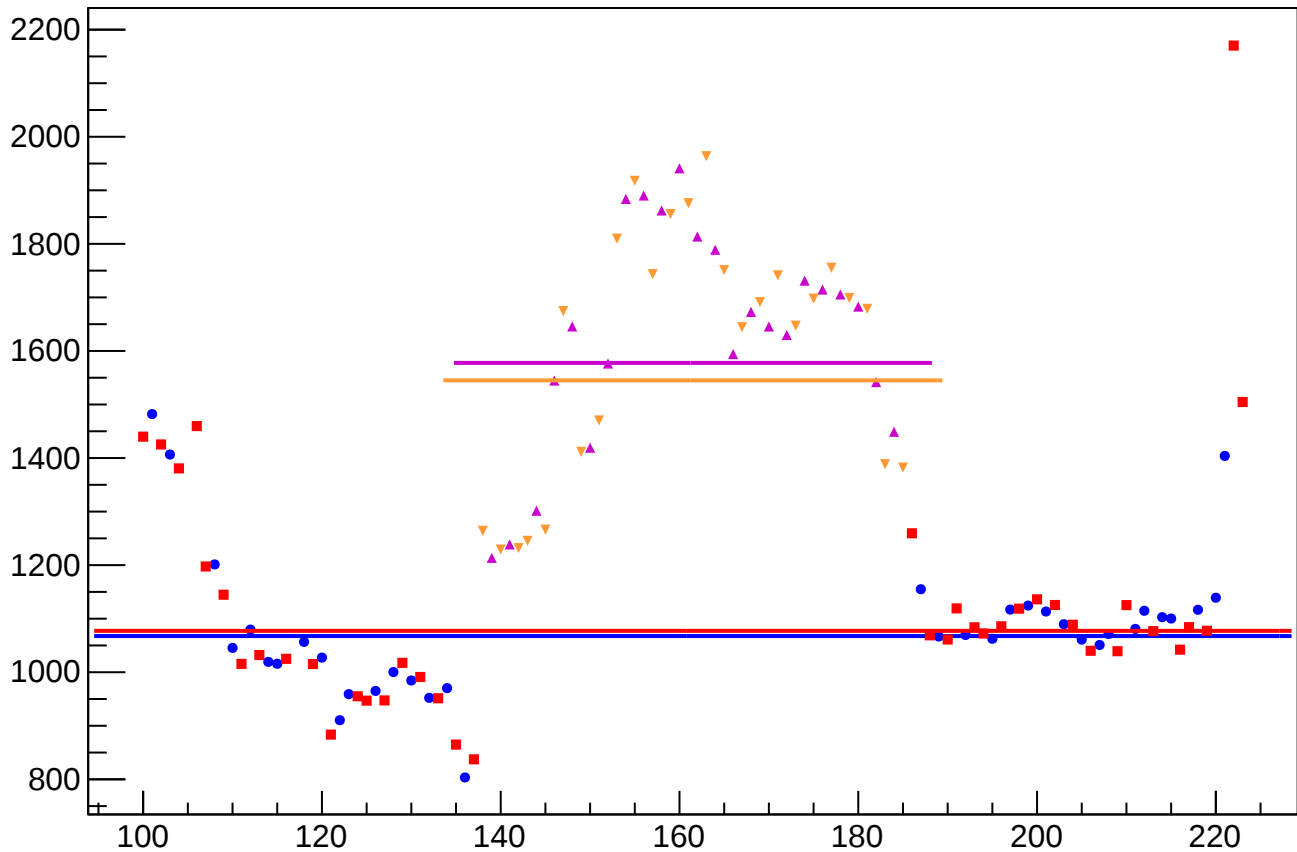
Right: -0.199 ± 0.170 $\chi^2/\text{NDF}: 11881.4/73$

In: -4.818 ± 0.204 $\chi^2/\text{NDF}: 2709.1/57$

Out: 2.960 ± 0.200 $\chi^2/\text{NDF}: 11029.3/63$

All: -0.854 ± 0.143 $\chi^2/\text{NDF}: 14479.5/121$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1067.547 $\pm$ 0.170 χ^2/NDF : 539058.8/34

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

Right Out: 1077.272 $\pm$ 0.169 χ^2/NDF : 851108.4/38

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

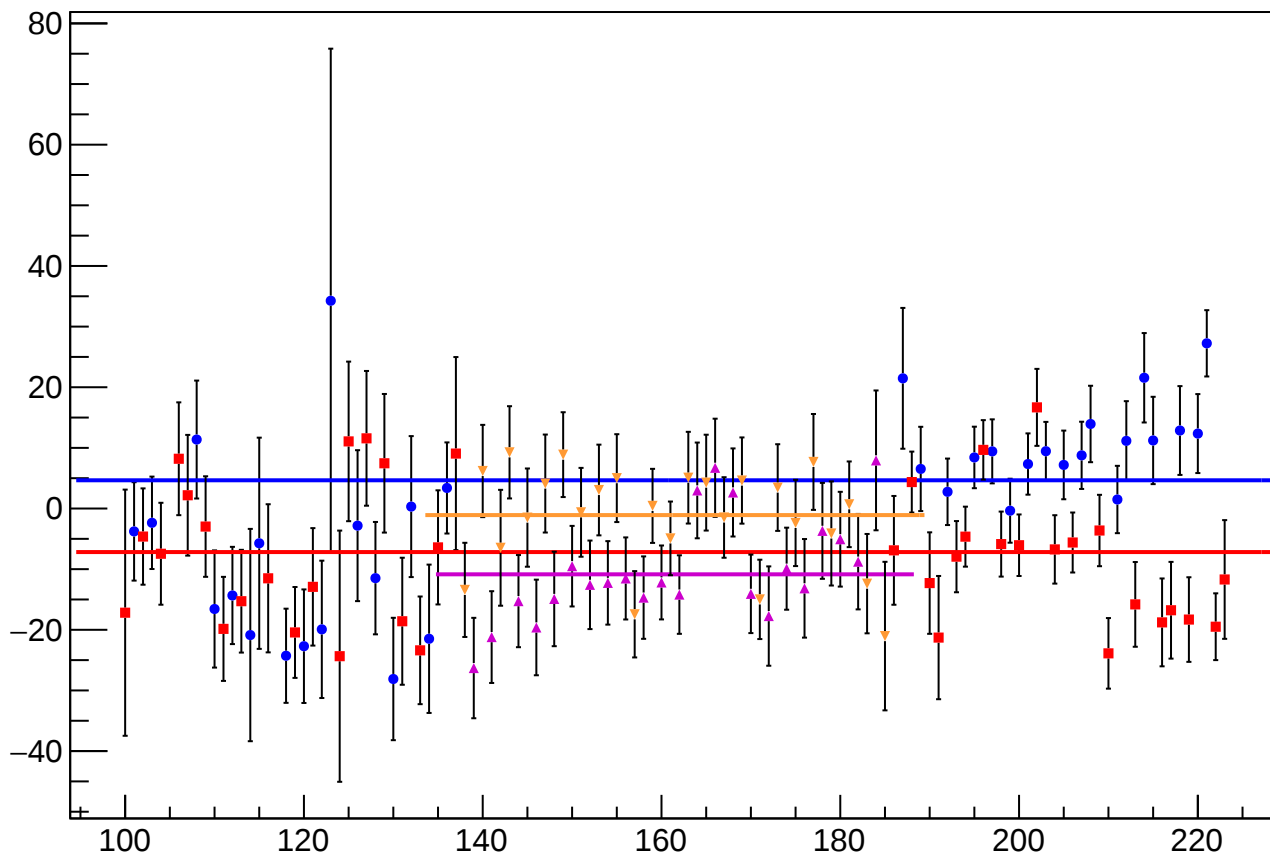
Right: 1072.446 $\pm$ 0.120 χ^2/NDF : 1391807.1/73

In: 1212.331 $\pm$ 0.144 χ^2/NDF : 3706936.4/57

Out: 1217.971 $\pm$ 0.141 χ^2/NDF : 3993570.7/63

All: 1215.206 $\pm$ 0.101 χ^2/NDF : 7701286.3/12

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 4.656 ± 1.209 $\chi^2/\text{NDF}: 97.5/34$

Left Out: -1.083 ± 1.487 $\chi^2/\text{NDF}: 27.5/24$

Right Out: -7.181 ± 1.172 $\chi^2/\text{NDF}: 79.5/38$

Left In: -10.851 ± 1.542 $\chi^2/\text{NDF}: 24.4/22$

Left: -5.792 ± 1.070 $\chi^2/\text{NDF}: 72.7/47$

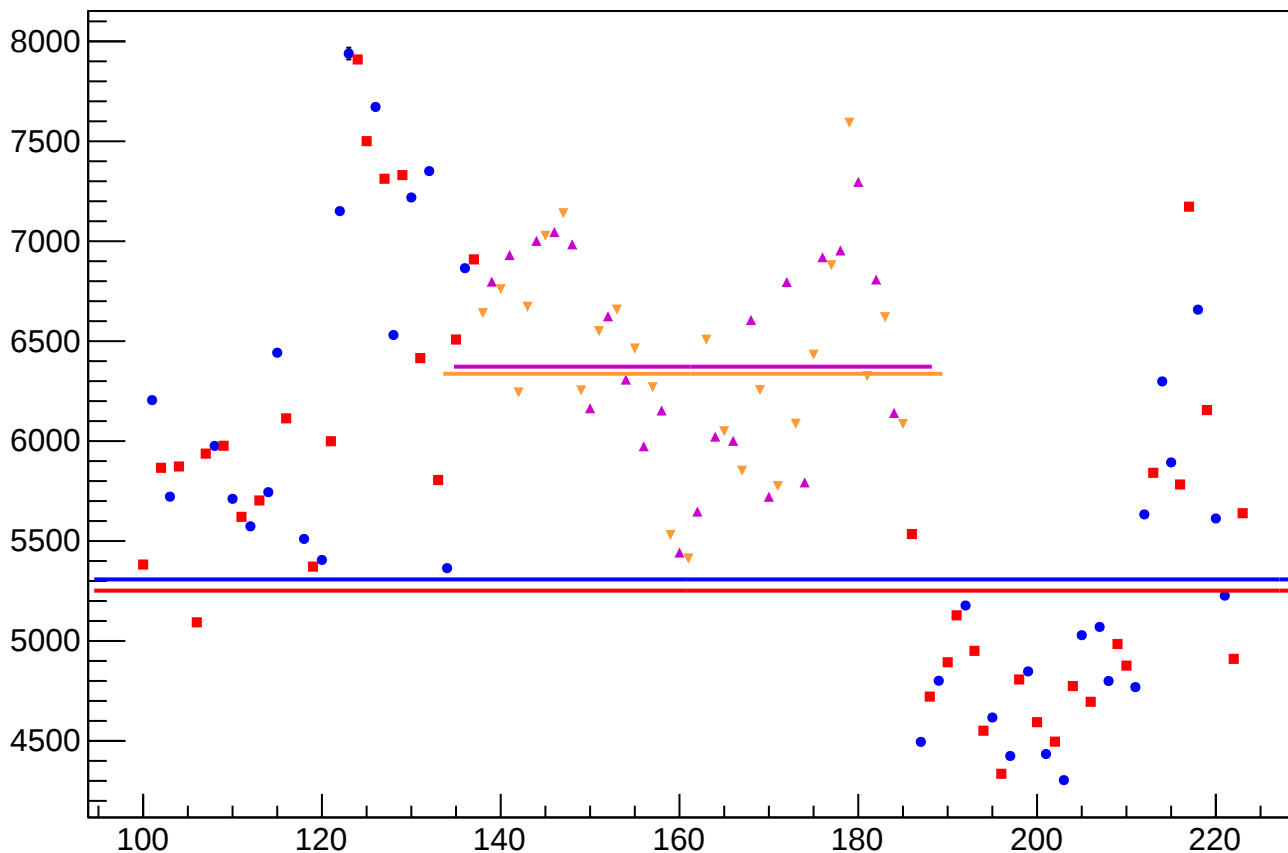
Right: -1.447 ± 0.841 $\chi^2/\text{NDF}: 226.4/73$

In: -1.250 ± 0.951 $\chi^2/\text{NDF}: 184.5/57$

Out: -4.845 ± 0.920 $\chi^2/\text{NDF}: 117.4/63$

All: -3.107 ± 0.662 $\chi^2/\text{NDF}: 309.3/121$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5307.984+/-0.855 χ^2/NDF : 887693.6/34

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

Right Out: 5251.829+/-0.829 χ^2/NDF : 852818.7/38

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

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

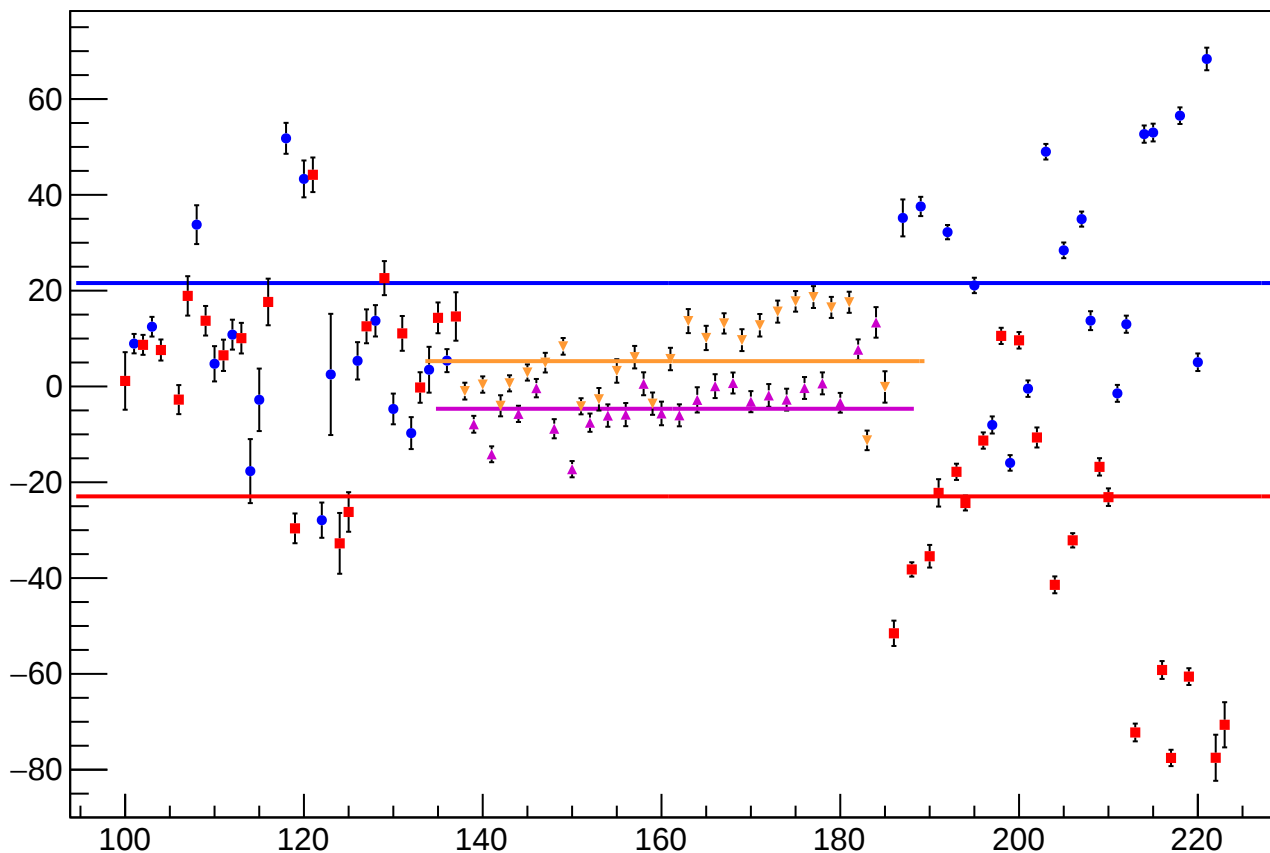
Right: 5279.031+/-0.595 χ^2/NDF : 1742736.7/73

In: 5713.333+/-0.673 χ^2/NDF : 1725224.8/57

Out: 5667.501+/-0.651 χ^2/NDF : 1732536.2/63

All: 5689.660+/-0.468 χ^2/NDF : 3460158.4/12

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 21.587 ± 0.372 χ^2/NDF : 3838.6/34

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

Right Out: -22.946 ± 0.369 χ^2/NDF : 5990.3/38

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

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

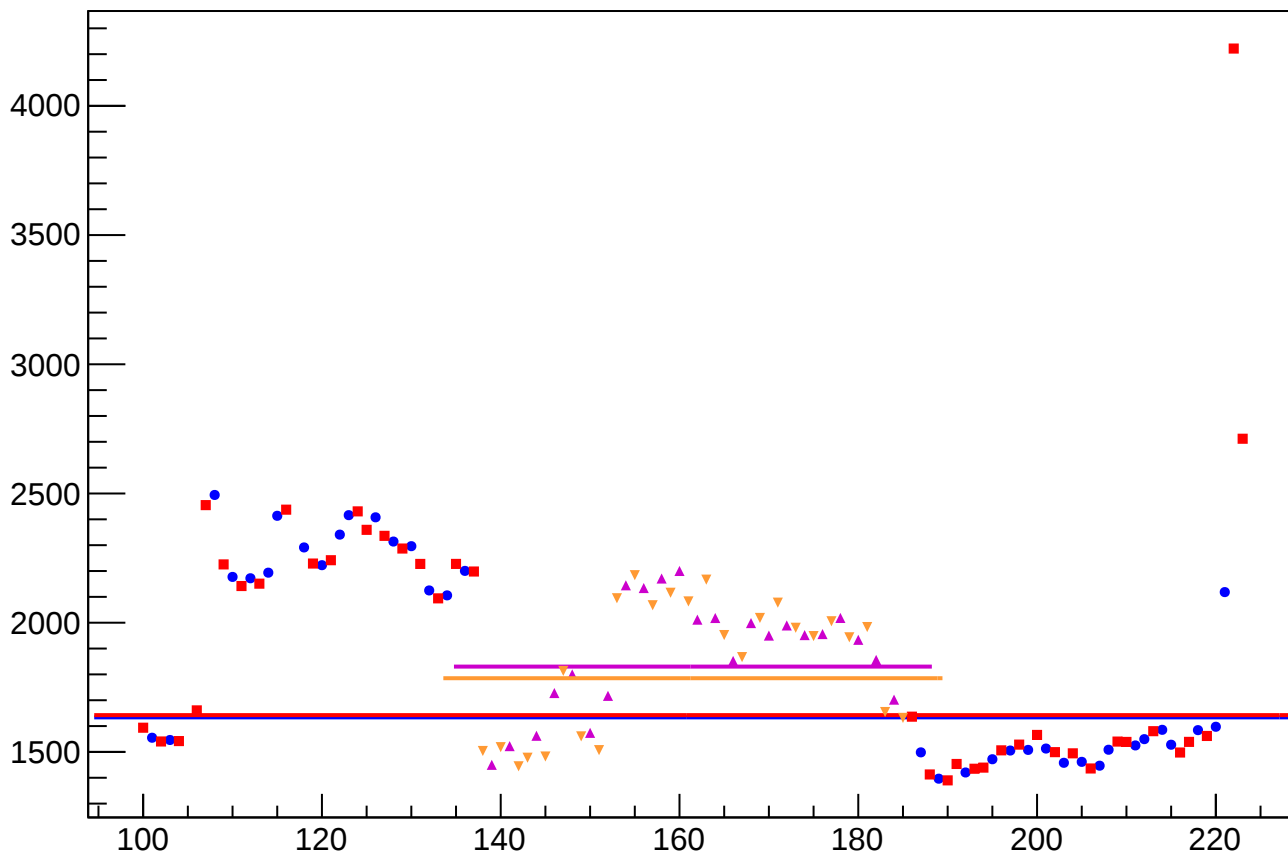
Right: -0.866 ± 0.262 χ^2/NDF : 17036.8/73

In: 10.728 ± 0.285 χ^2/NDF : 6089.4/57

Out: -10.658 ± 0.278 χ^2/NDF : 8899.3/63

All: -0.254 ± 0.199 χ^2/NDF : 17876.7/121

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1633.669 ± 0.263 $\chi^2/\text{NDF}: 1191226.7/34$

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

Right Out: 1642.364 ± 0.261 $\chi^2/\text{NDF}: 1799415.9/38$

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

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

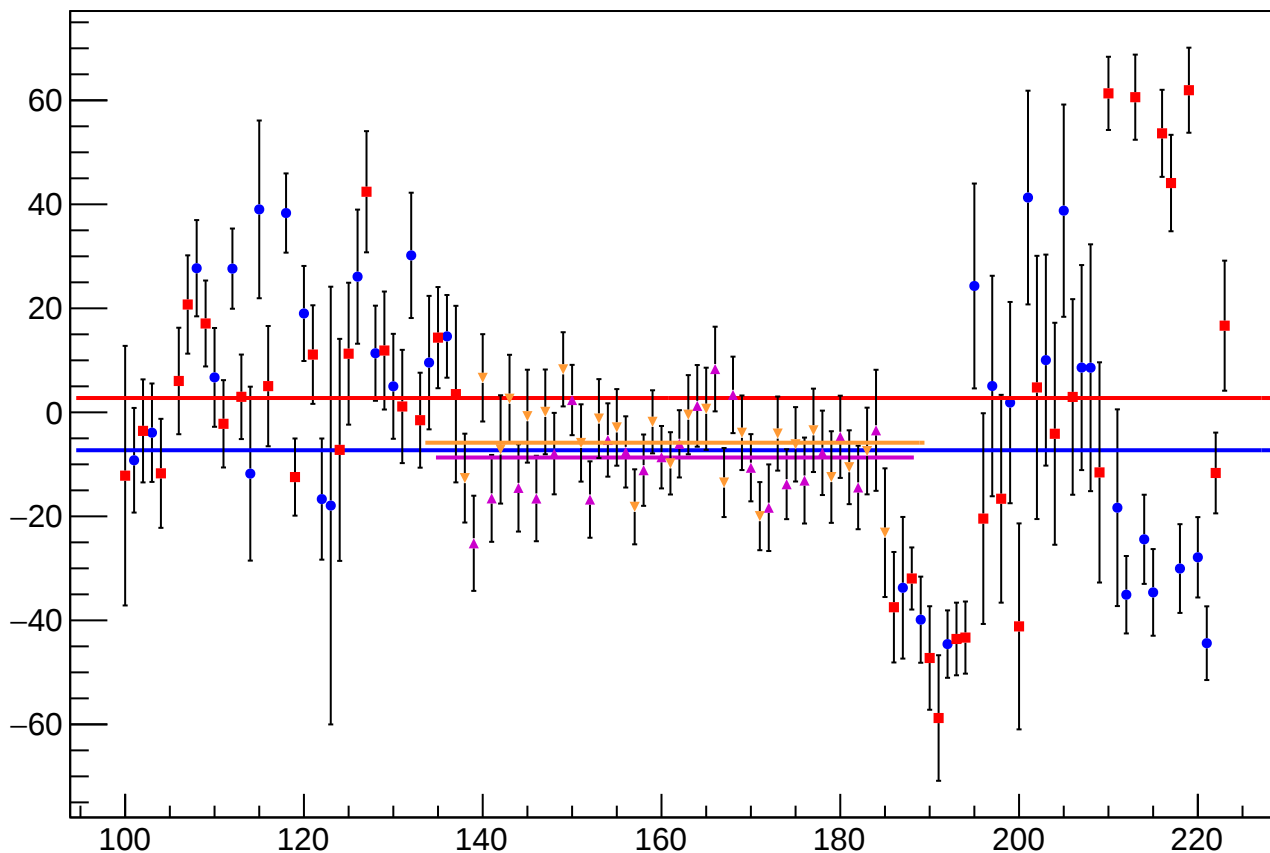
Right: 1638.053 ± 0.185 $\chi^2/\text{NDF}: 2991192.3/73$

In: 1714.968 ± 0.202 $\chi^2/\text{NDF}: 1929937.0/57$

Out: 1704.532 ± 0.196 $\chi^2/\text{NDF}: 2680205.5/63$

All: 1709.609 ± 0.141 $\chi^2/\text{NDF}: 4611518.1/12$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -7.287±1.759 χ^2/NDF : 259.4/34

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

Right Out: 2.756±1.601 χ^2/NDF : 457.6/38

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

Left: -7.214±1.092 χ^2/NDF : 47.0/47

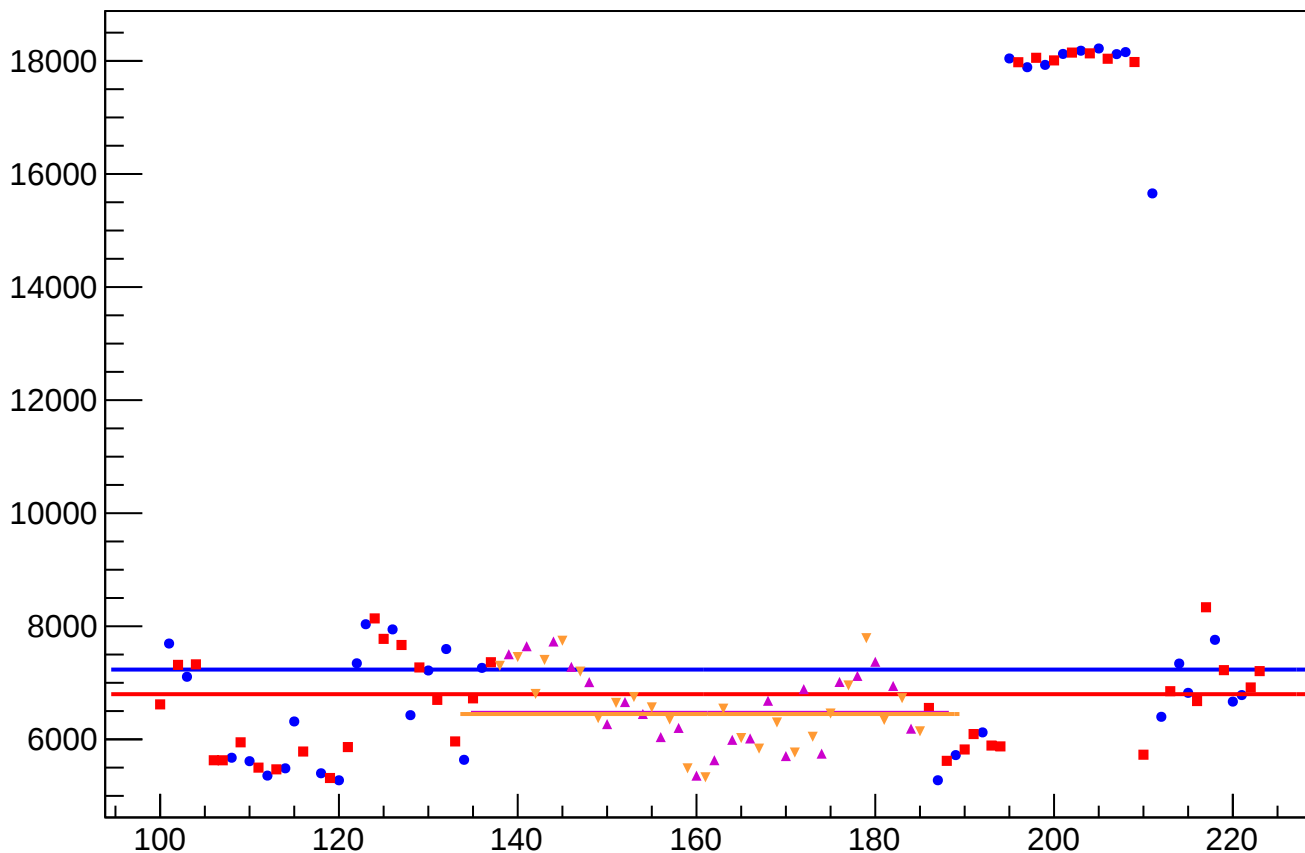
Right: -1.797±1.184 χ^2/NDF : 734.7/73

In: -8.064±1.171 χ^2/NDF : 281.6/57

Out: -1.771±1.102 χ^2/NDF : 496.1/63

All: -4.725±0.803 χ^2/NDF : 793.0/121

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7234.043 ± 1.243 $\chi^2/\text{NDF}: 5624493.2/34$

Left Out: 6447.712 ± 1.074 $\chi^2/\text{NDF}: 371671.1/24$

Right Out: 6798.819 ± 1.132 $\chi^2/\text{NDF}: 4764128.9/38$

Left In: 6468.902 ± 1.111 $\chi^2/\text{NDF}: 383325.4/22$

Left: 6457.948 ± 0.772 $\chi^2/\text{NDF}: 755184.7/47$

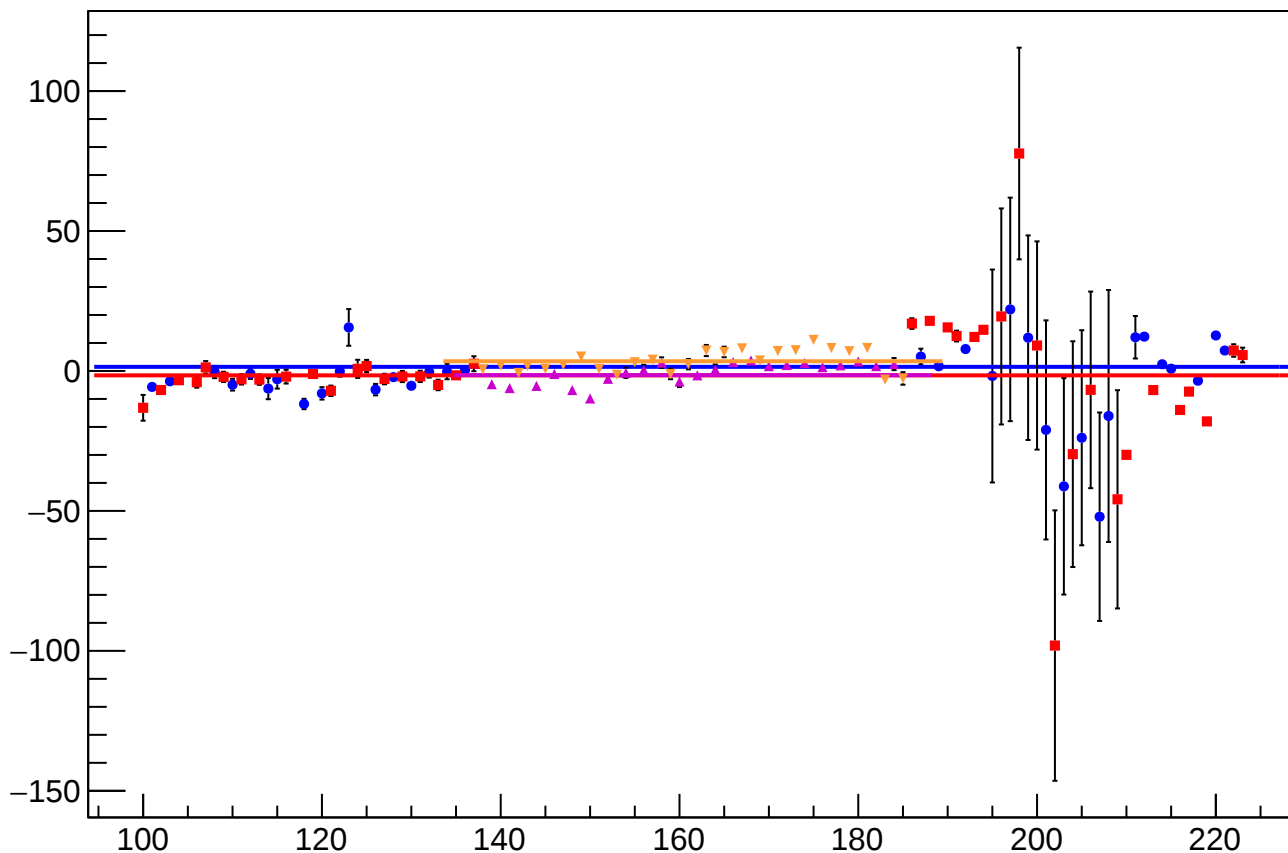
Right: 6996.116 ± 0.837 $\chi^2/\text{NDF}: 10455593.1/73$

In: 6808.411 ± 0.828 $\chi^2/\text{NDF}: 6218441.6/57$

Out: 6613.924 ± 0.779 $\chi^2/\text{NDF}: 5186431.1/63$

All: 6705.218 ± 0.567 $\chi^2/\text{NDF}: 11434125.3/137$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 1.472 ± 0.309 χ^2/NDF : 420.1/34

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

Right Out: -1.571 ± 0.286 χ^2/NDF : 1841.8/38

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

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

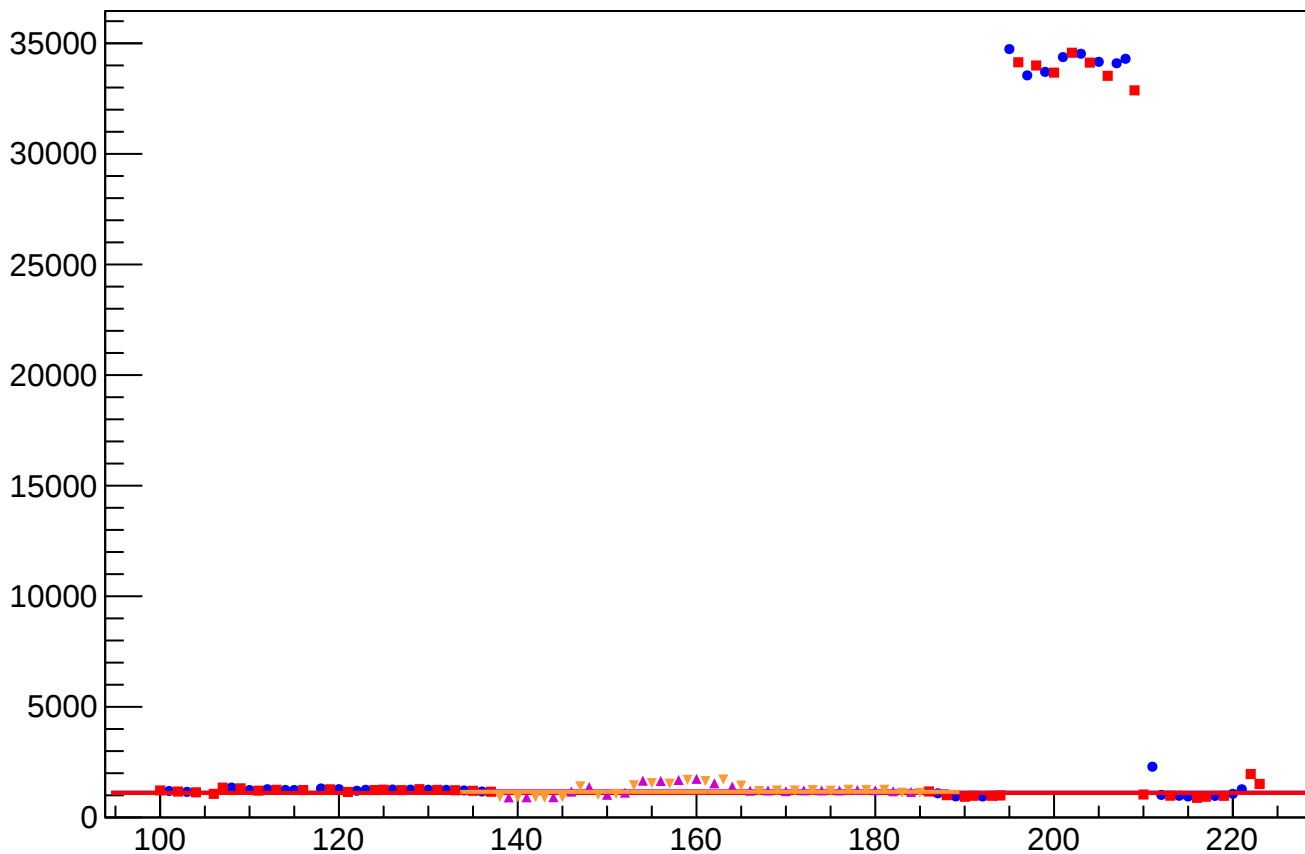
Right: -0.168 ± 0.210 χ^2/NDF : 2314.1/73

In: -0.108 ± 0.212 χ^2/NDF : 671.9/57

Out: 1.037 ± 0.199 χ^2/NDF : 2178.4/63

All: 0.501 ± 0.145 χ^2/NDF : 2865.9/121

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1123.425+/-0.219 χ^2/NDF : 11976625.0/34

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

Right Out: 1107.839+/-0.202 χ^2/NDF : 10628694.6/38

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

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

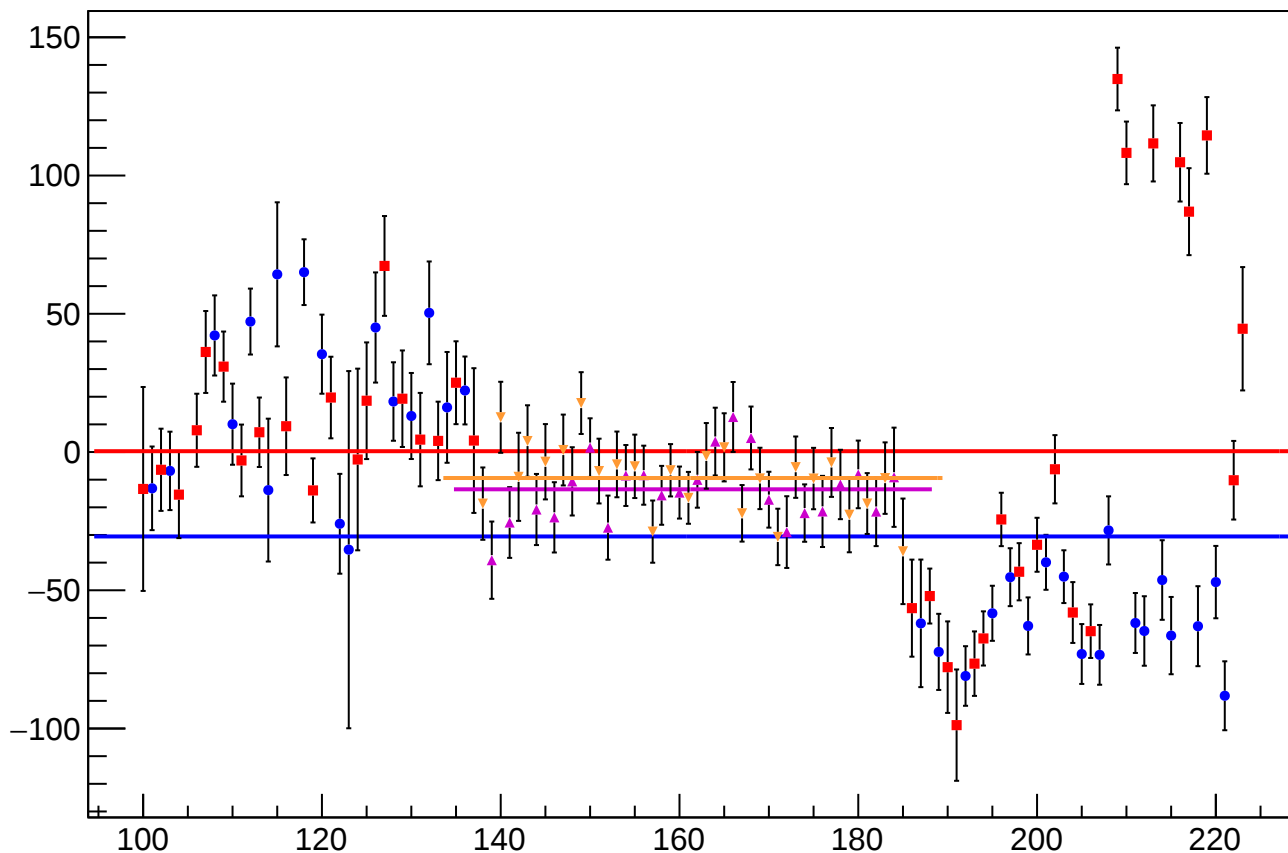
Right: 1115.026+/-0.149 χ^2/NDF : 22608056.6/73

In: 1156.108+/-0.150 χ^2/NDF : 13209104.9/57

Out: 1134.249+/-0.141 χ^2/NDF : 12072064.7/63

All: 1144.485+/-0.102 χ^2/NDF : 25292495.6/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -30.536 ± 2.244 $\chi^2/\text{NDF}: 394.4/34$

Left Out: -9.398 ± 2.358 $\chi^2/\text{NDF}: 26.3/24$

Right Out: 0.300 ± 2.169 $\chi^2/\text{NDF}: 775.7/38$

Left In: -13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

Left: -11.369 ± 1.697 $\chi^2/\text{NDF}: 49.3/47$

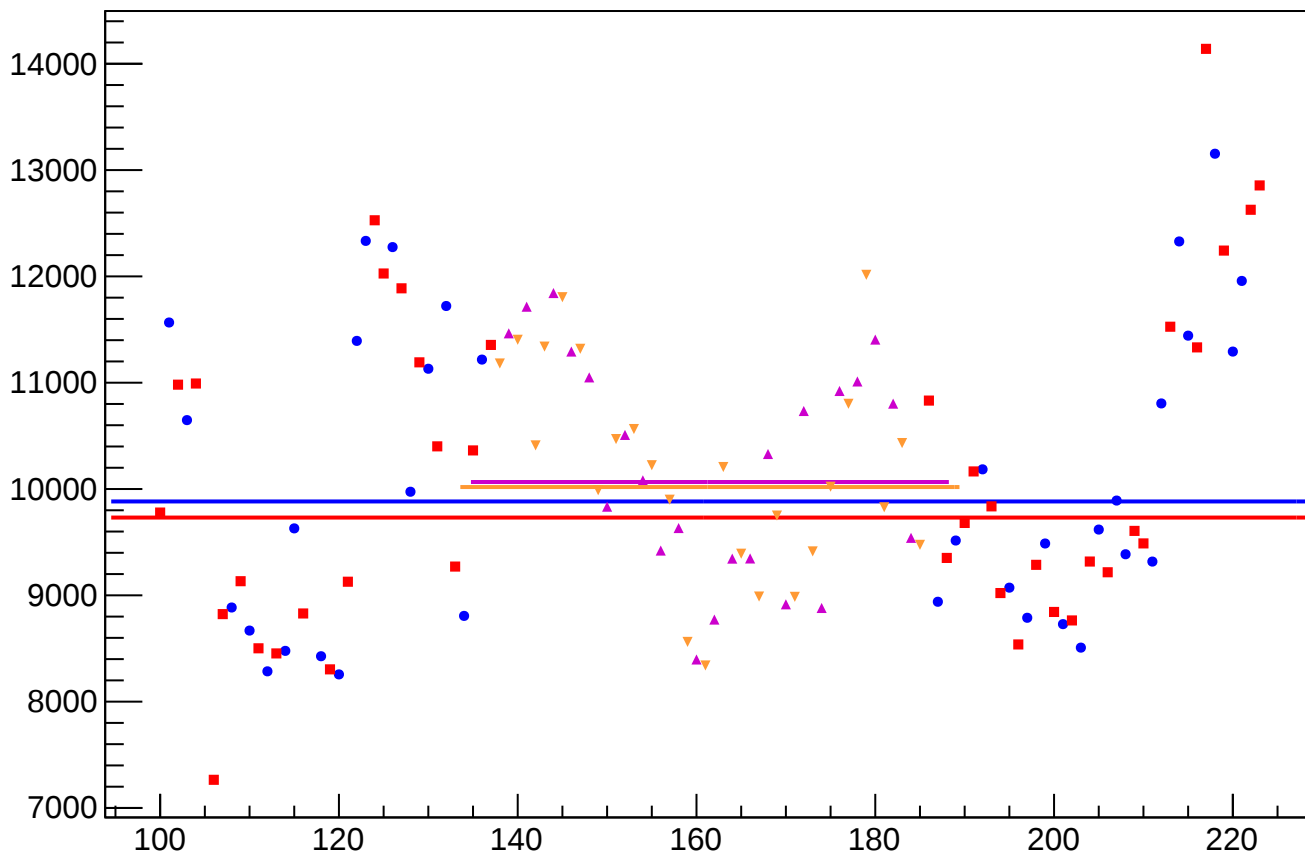
Right: -14.595 ± 1.559 $\chi^2/\text{NDF}: 1267.7/73$

In: -22.733 ± 1.652 $\chi^2/\text{NDF}: 442.4/57$

Out: -4.143 ± 1.596 $\chi^2/\text{NDF}: 811.1/63$

All: -13.118 ± 1.148 $\chi^2/\text{NDF}: 1319.0/121$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9883.050+/-1.587 χ^2/NDF : 656325.0/34

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

Right Out: 9731.531+/-1.534 χ^2/NDF : 783016.9/38

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

Left: 10041.404+/-1.200 χ^2/NDF : 702792.3/47

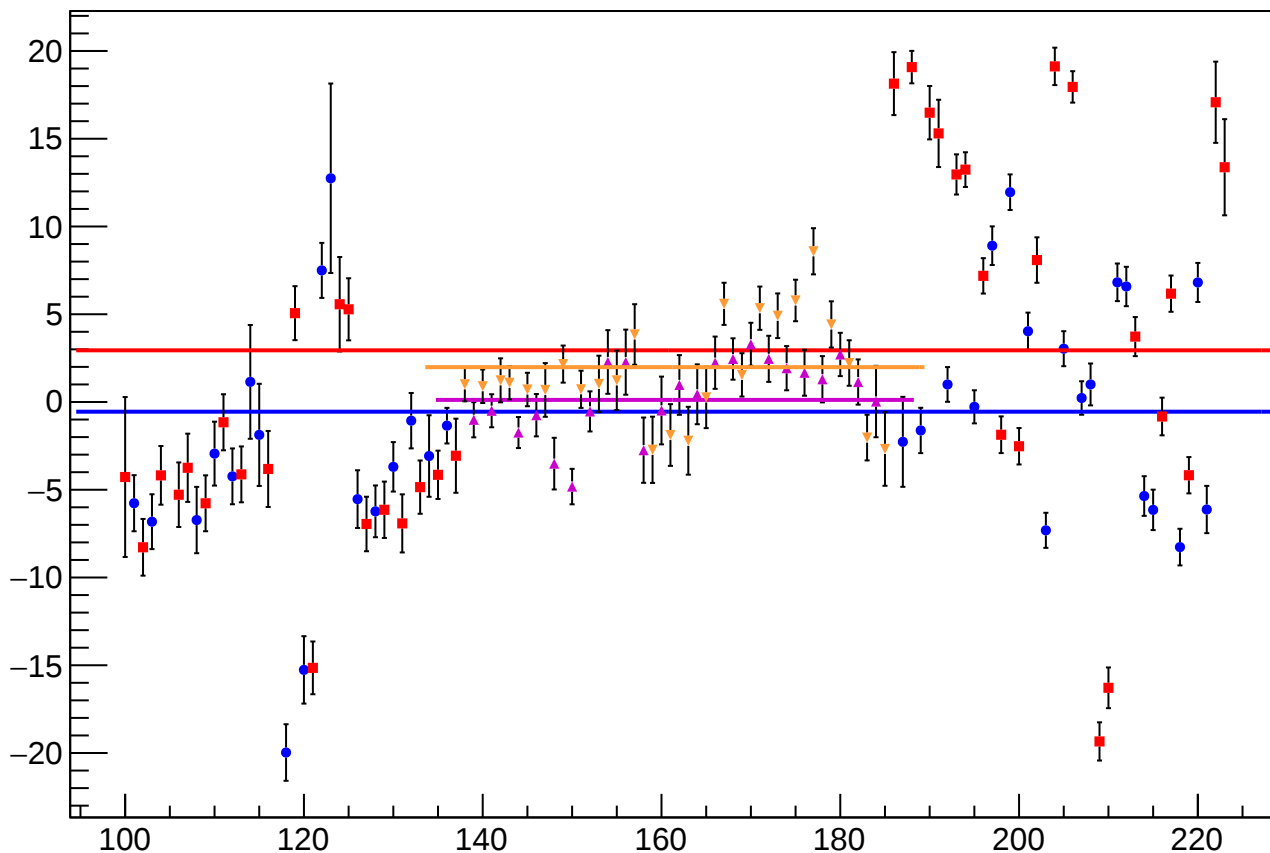
Right: 9804.723+/-1.103 χ^2/NDF : 1444056.7/73

In: 9966.726+/-1.168 χ^2/NDF : 1020272.4/57

Out: 9863.054+/-1.129 χ^2/NDF : 1143600.7/63

All: 9913.104+/-0.812 χ^2/NDF : 2167944.8/12

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.553±/0.219 χ^2/NDF : 866.6/34

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

Right Out: 2.944±/0.216 χ^2/NDF : 2578.1/38

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

Left: 1.102±/0.185 χ^2/NDF : 194.2/47

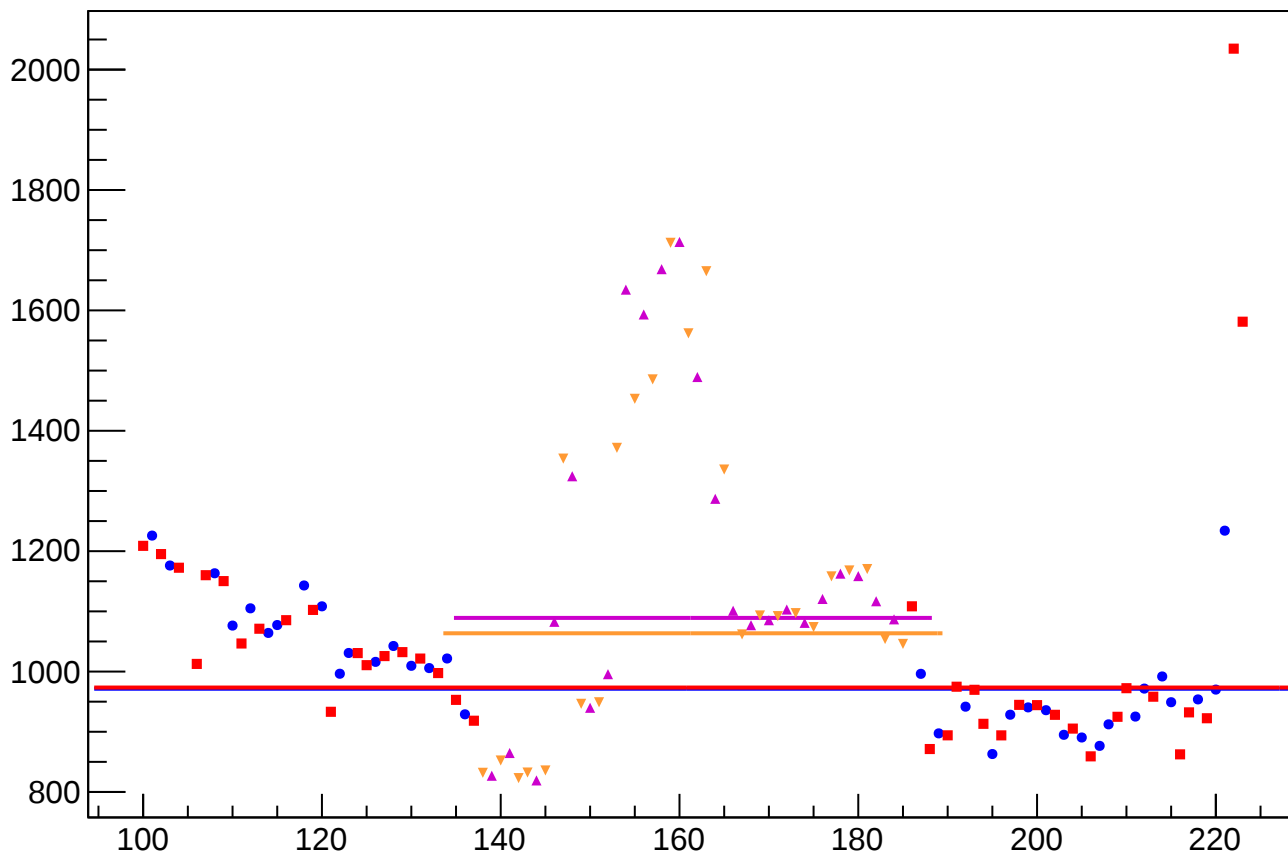
Right: 1.218±/0.154 χ^2/NDF : 3573.9/73

In: -0.285±/0.170 χ^2/NDF :938.0/57

Out: 2.543±/0.165 χ^2/NDF :2687.5/63

All: 1.170±/0.118 χ^2/NDF : 3768.3/121

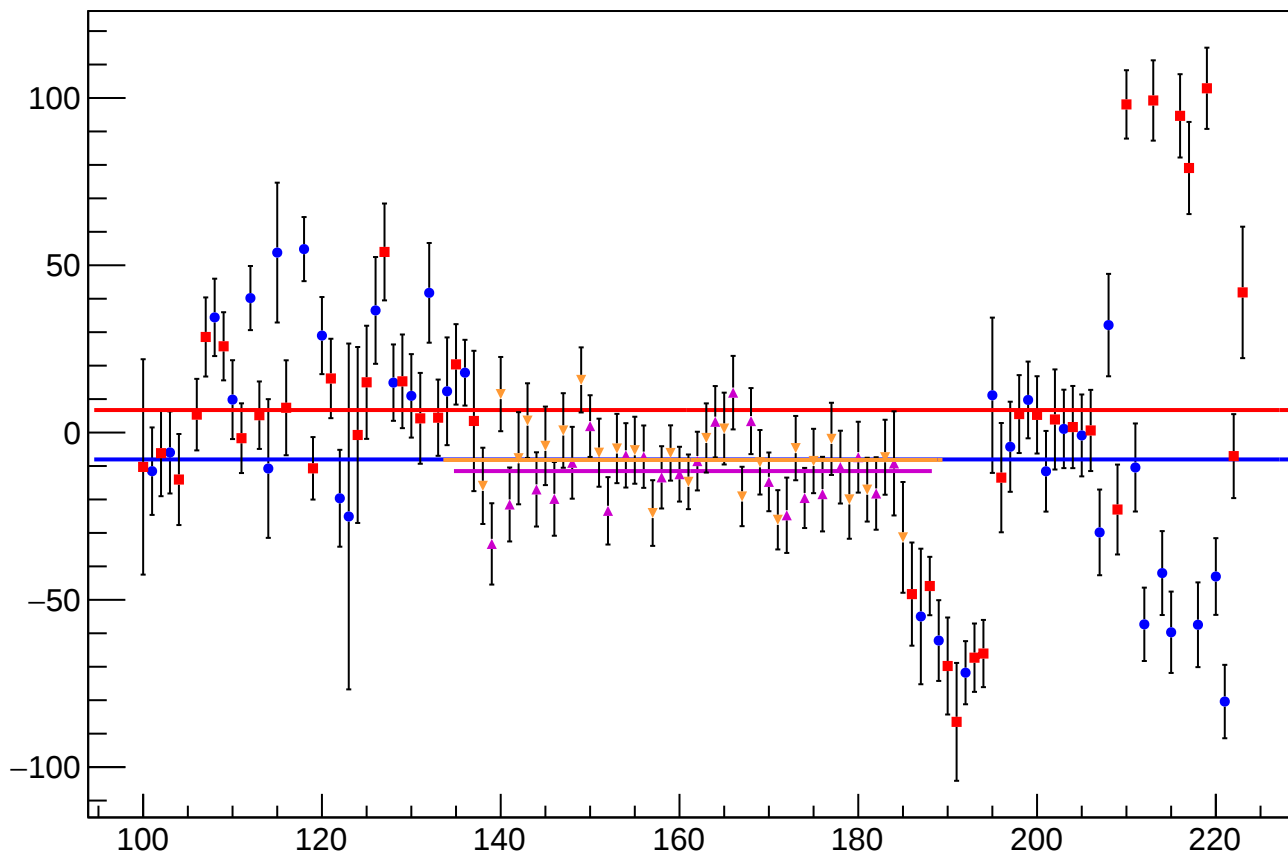
diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 971.479 $\pm$ 0.155 χ^2/NDF : 350907.8/34
 Left Out: 1063.600 $\pm$ 0.180 χ^2/NDF :1617376.3/24
 Right Out: 973.479 $\pm$ 0.153 χ^2/NDF : 819082.8/38
 Left In: 1089.154 $\pm$ 0.190 χ^2/NDF :1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2/NDF : 3057378.7/47
 Right: 972.492 $\pm$ 0.109 χ^2/NDF : 1170075.1/73
 In: 1018.439 $\pm$ 0.120 χ^2/NDF :2011910.4/57
 Out: 1011.192 $\pm$ 0.117 χ^2/NDF :2581945.0/63
 All: 1014.710 $\pm$ 0.084 χ^2/NDF : 4595731.9/12

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -8.035 $\pm$ 2.137 χ^2/NDF : 336.8/34

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

Right Out: 6.728 $\pm$ 2.006 χ^2/NDF : 528.9/38

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

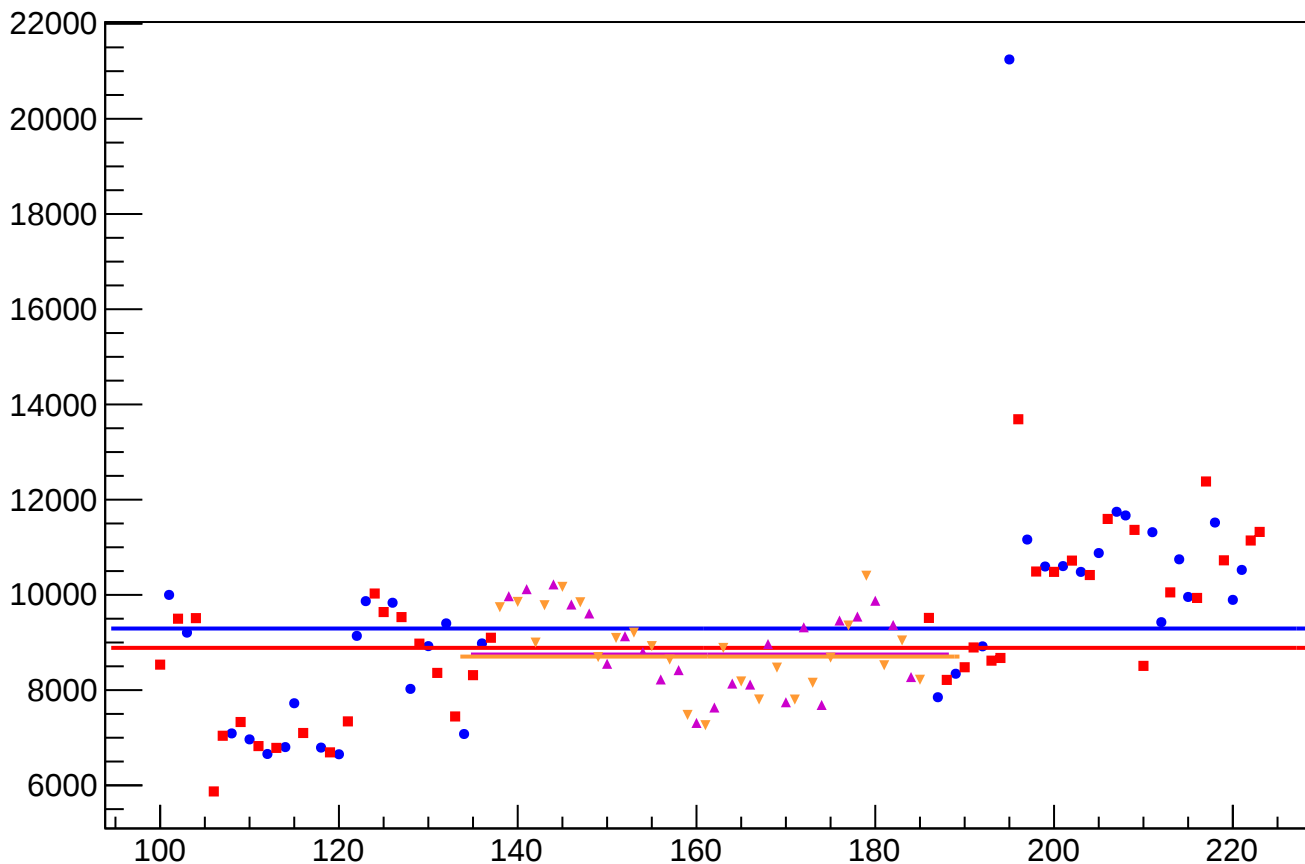
Right: -0.189 $\pm$ 1.462 χ^2/NDF : 891.0/73

In: -9.787 $\pm$ 1.506 χ^2/NDF : 359.2/57

Out: -0.576 $\pm$ 1.433 χ^2/NDF : 582.1/63

All: -4.955 $\pm$ 1.038 χ^2/NDF : 960.9/121

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9293.699 ± 1.511 $\chi^2/\text{NDF}: 1651158.0/34$

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

Right Out: 8887.416 ± 1.418 $\chi^2/\text{NDF}: 1459219.0/38$

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

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

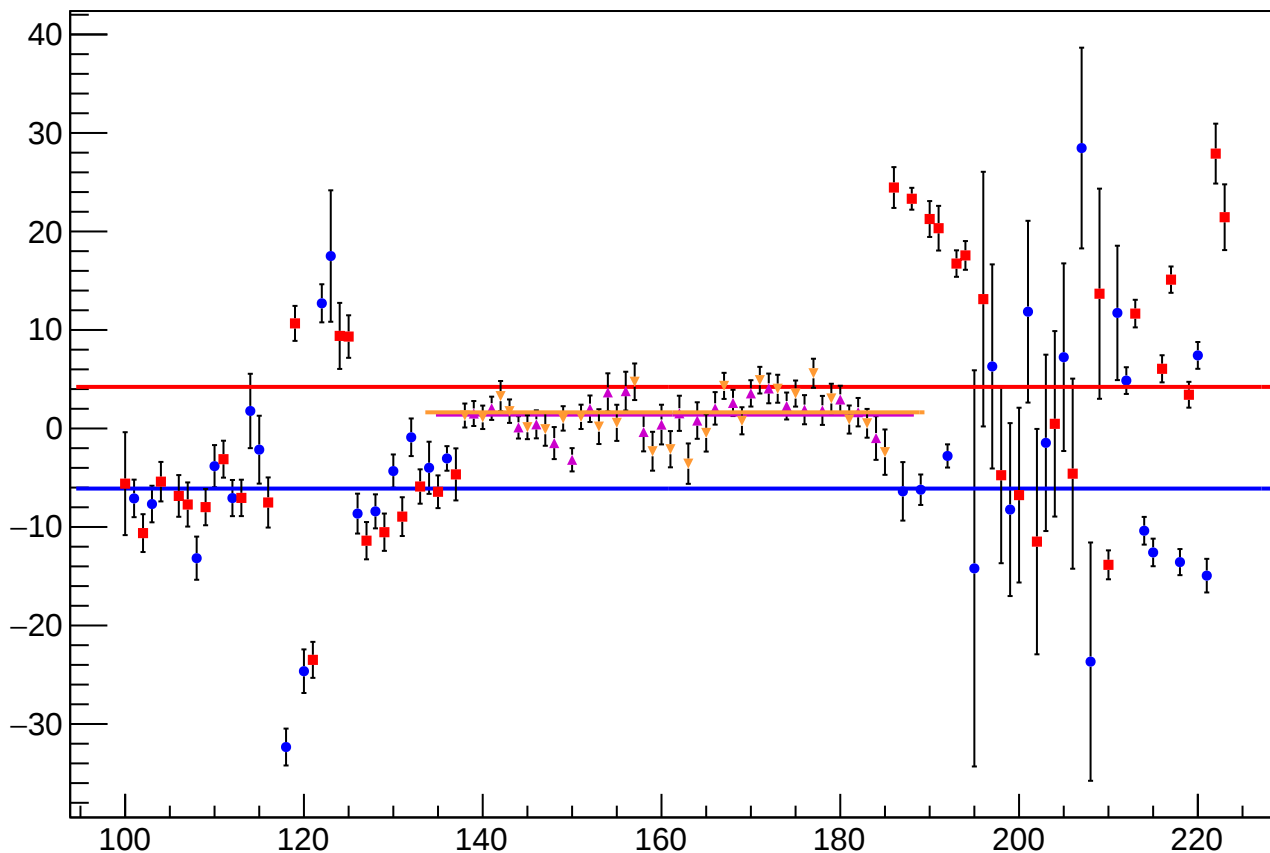
Right: 9077.765 ± 1.034 $\chi^2/\text{NDF}: 3148815.8/73$

In: 9018.740 ± 1.065 $\chi^2/\text{NDF}: 2064080.3/57$

Out: 8797.734 ± 1.013 $\chi^2/\text{NDF}: 1799750.6/63$

All: 8902.794 ± 0.734 $\chi^2/\text{NDF}: 3886436.2/12$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.101 ± 0.341 χ^2/NDF : 700.2/34

Left Out: 1.639 ± 0.294 χ^2/NDF : 51.3/24

Right Out: 4.221 ± 0.315 χ^2/NDF : 1812.4/38

Left In: 1.404 ± 0.309 χ^2/NDF : 34.1/22

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

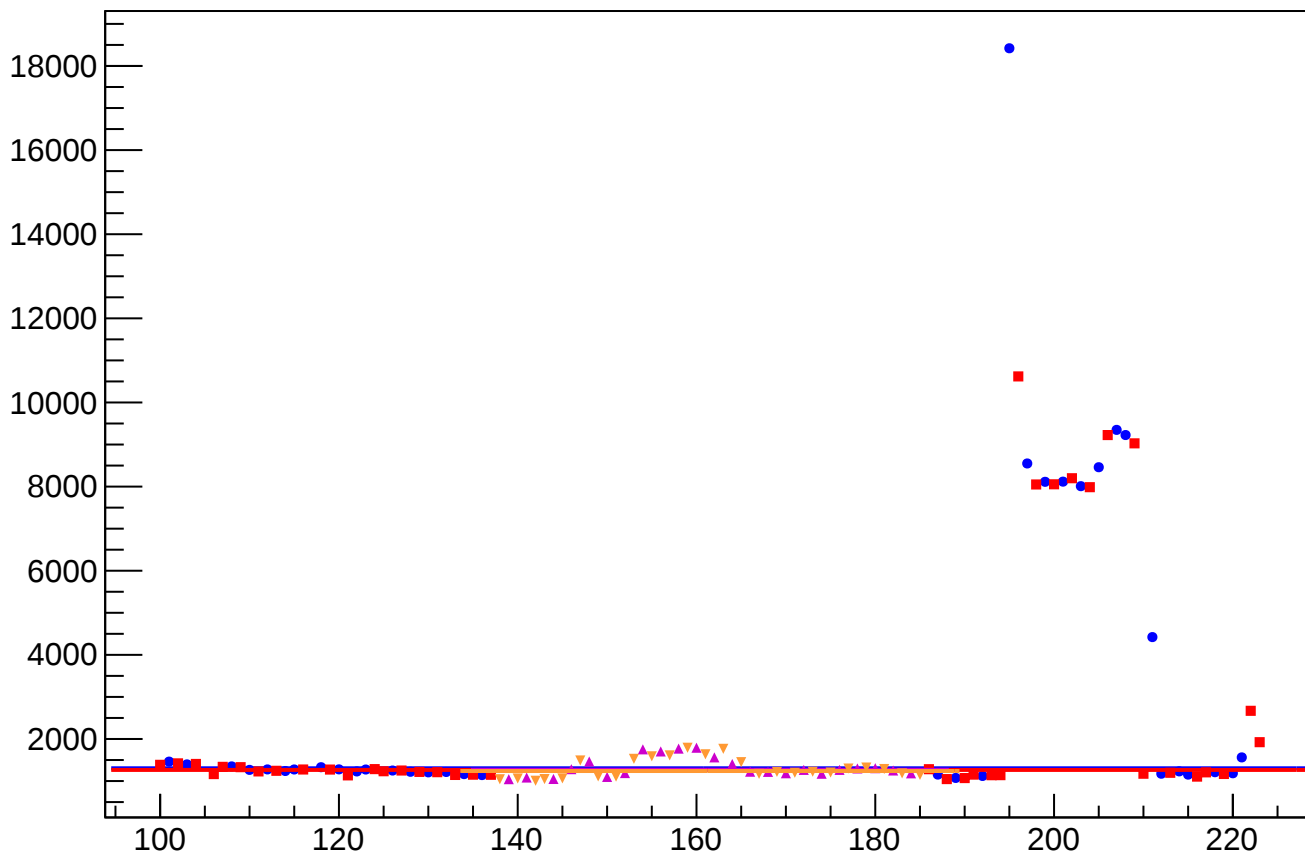
Right: -0.532 ± 0.232 χ^2/NDF : 3005.8/73

In: -1.975 ± 0.229 χ^2/NDF : 1000.0/57

Out: 2.838 ± 0.215 χ^2/NDF : 1899.7/63

All: 0.585 ± 0.157 χ^2/NDF : 3134.4/121

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1303.217+/-0.241 χ^2/NDF : 9792925.2/34

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

Right Out: 1264.598+/-0.223 χ^2/NDF : 8314911.2/38

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

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

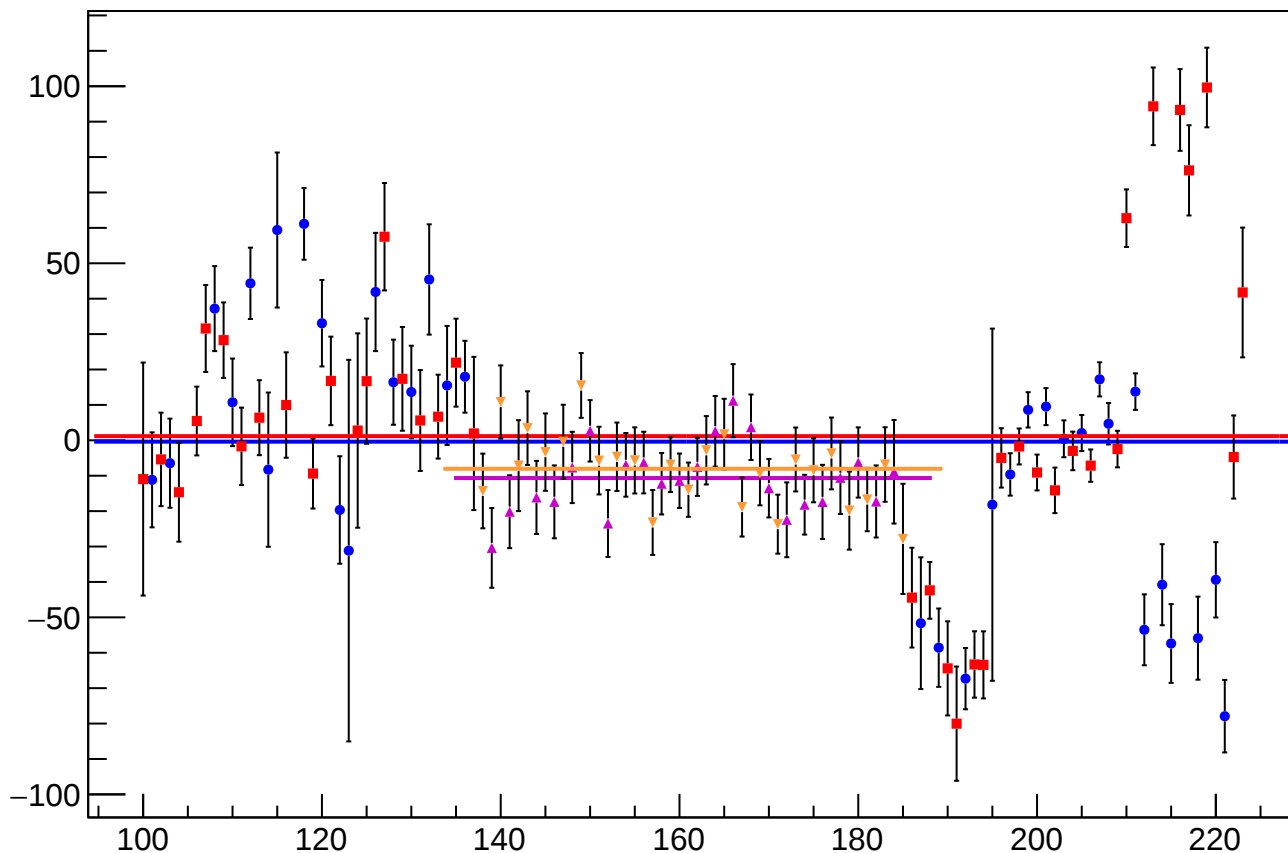
Right: 1282.381+/-0.164 χ^2/NDF : 18121641.7/73

In: 1282.577+/-0.162 χ^2/NDF : 10651377.0/57

Out: 1250.581+/-0.152 χ^2/NDF : 9287455.0/63

All: 1265.558+/-0.111 χ^2/NDF : 19959581.9/1

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: -0.379 $\pm$ 1.474 χ^2/NDF : 393.9/34

Left Out: -8.042 $\pm$ 1.918 χ^2/NDF : 26.3/24

Right Out: 1.178 $\pm$ 1.485 χ^2/NDF : 545.0/38

Left In: -10.653 $\pm$ 1.988 χ^2/NDF : 21.4/22

Left: -9.301 $\pm$ 1.380 χ^2/NDF : 48.6/47

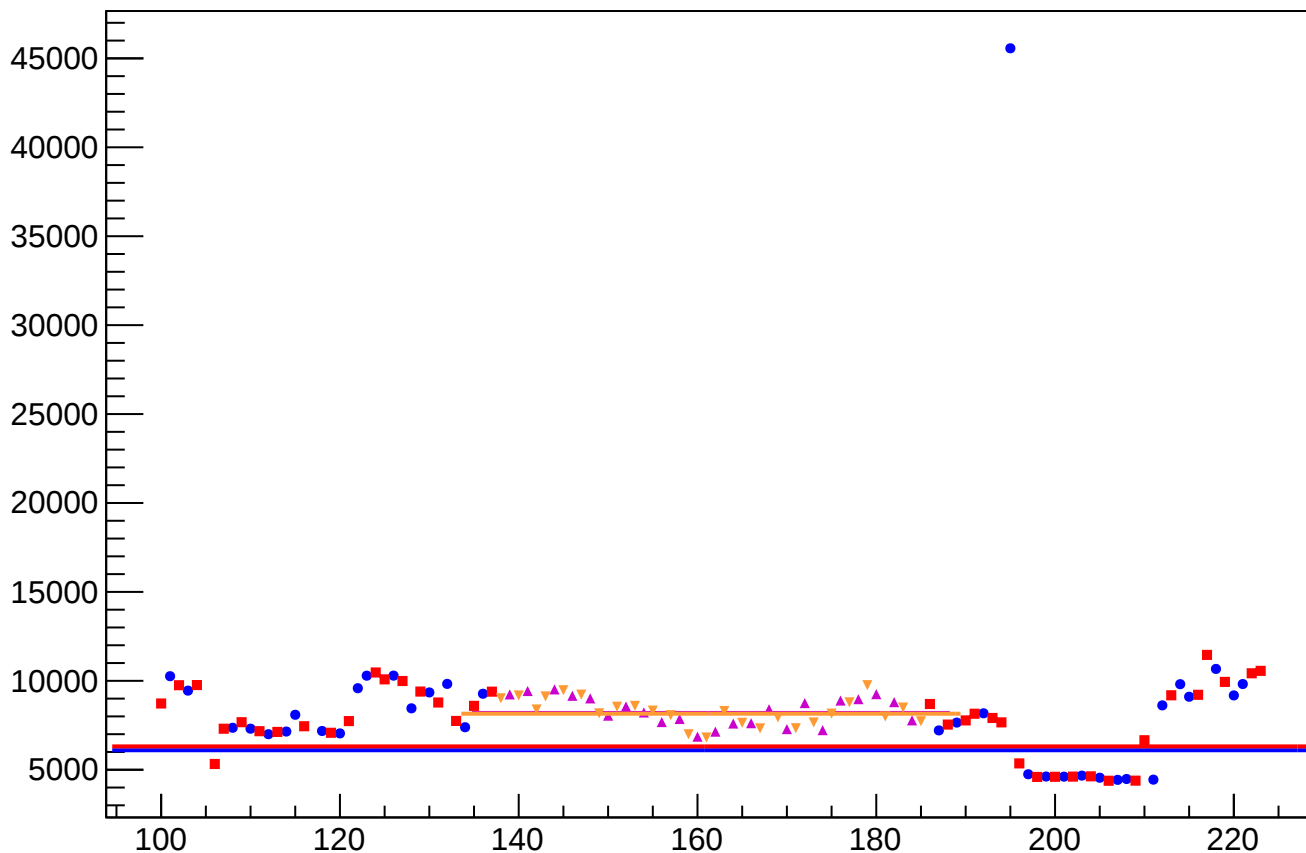
Right: 0.394 $\pm$ 1.046 χ^2/NDF : 939.5/73

In: -4.024 $\pm$ 1.184 χ^2/NDF : 432.6/57

Out: -2.276 $\pm$ 1.174 χ^2/NDF : 585.8/63

All: -3.143 $\pm$ 0.834 χ^2/NDF : 1019.5/121

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6096.859 $\pm$ 1.042

χ^2/NDF : 5227516.7/34

Left: 8171.814 $\pm$ 0.976 χ^2/NDF : 660646.6/47

Right: 6204.147 $\pm$ 0.740 χ^2/NDF : 9053113.1/73

Left Out: 8151.489 $\pm$ 1.356

χ^2/NDF : 321803.3/24

In: 6840.737 $\pm$ 0.837 χ^2/NDF : 7002055.6/57

Right Out: 6313.022 $\pm$ 1.050

χ^2/NDF : 3804242.5/38

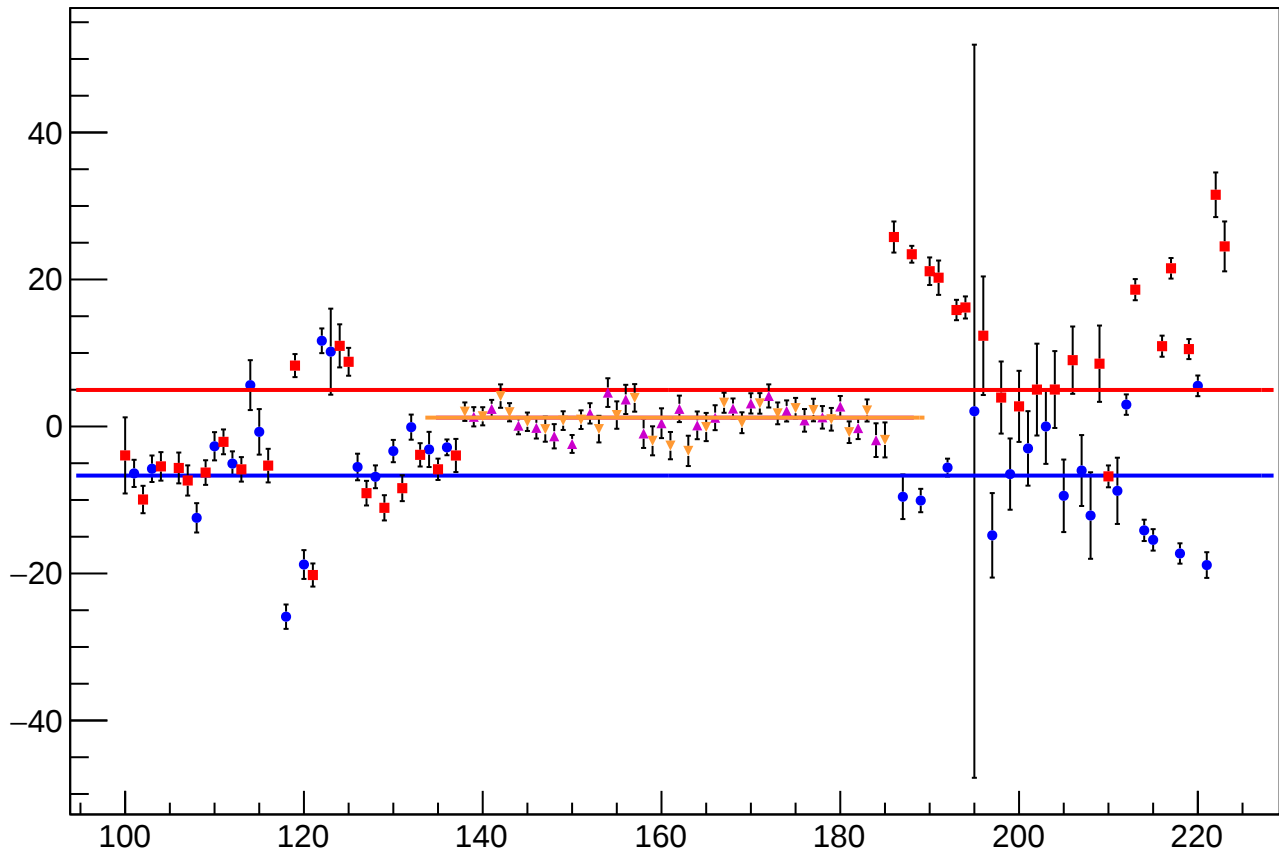
Out: 7001.791 $\pm$ 0.830 χ^2/NDF : 5275002.0/63

Left In: 8193.636 $\pm$ 1.405

χ^2/NDF : 338377.6/22

All: 6921.932 $\pm$ 0.589 χ^2/NDF : 12295718.9/1

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.681 ± 0.324 $\chi^2/\text{NDF}: 670.5/34$

Left Out: 1.203 ± 0.302 $\chi^2/\text{NDF}: 29.9/24$

Right Out: 4.968 ± 0.302 $\chi^2/\text{NDF}: 1896.8/38$

Left In: 1.198 ± 0.318 $\chi^2/\text{NDF}: 31.2/22$

Left: 1.201 ± 0.219 $\chi^2/\text{NDF}: 61.1/47$

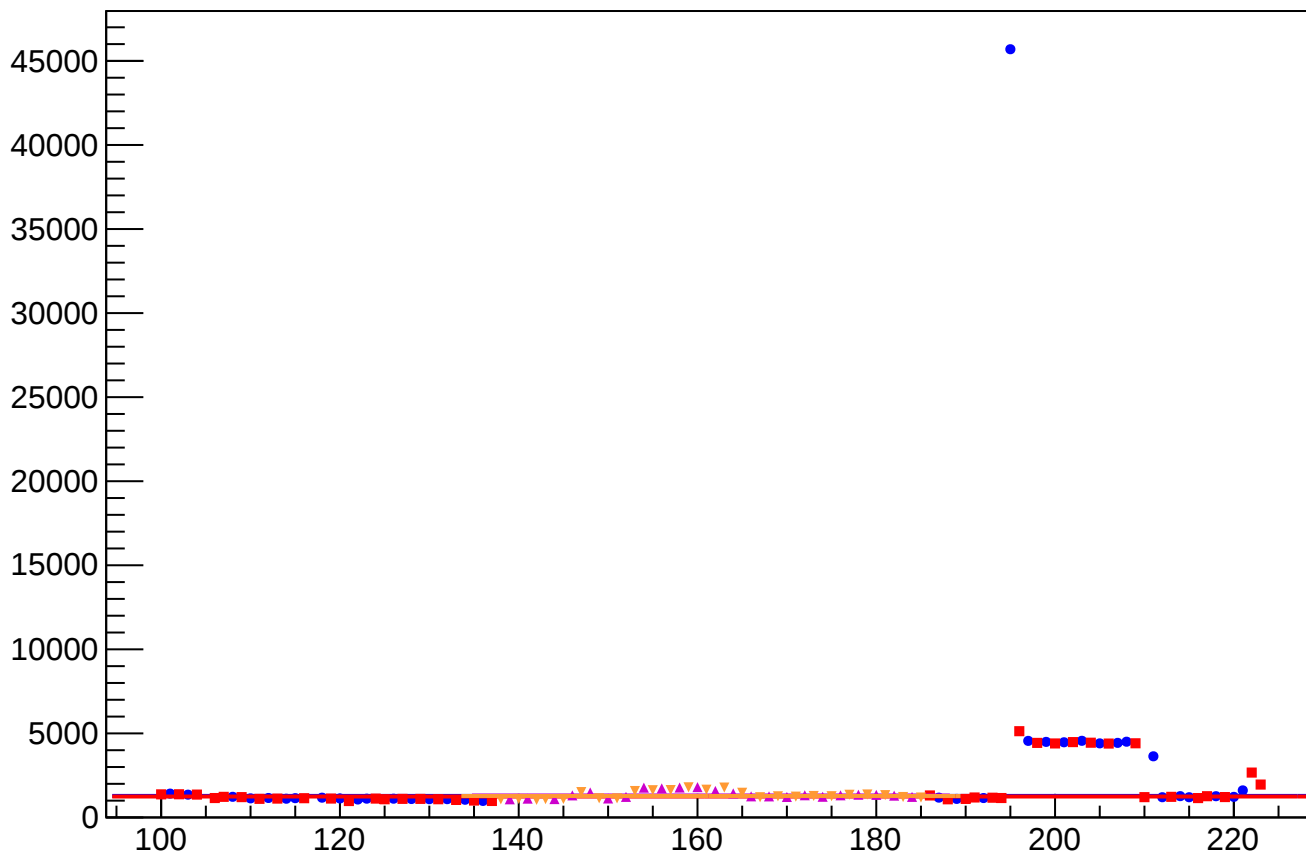
Right: -0.458 ± 0.221 $\chi^2/\text{NDF}: 3258.4/73$

In: -2.671 ± 0.227 $\chi^2/\text{NDF}: 1002.8/57$

Out: 3.086 ± 0.214 $\chi^2/\text{NDF}: 2004.3/63$

All: 0.378 ± 0.156 $\chi^2/\text{NDF}: 3347.9/121$

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1281.376 $\pm$ 0.229 χ^2/NDF : 8053127.3/34

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

Right Out: 1245.550 $\pm$ 0.214 χ^2/NDF : 6044436.7/38

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

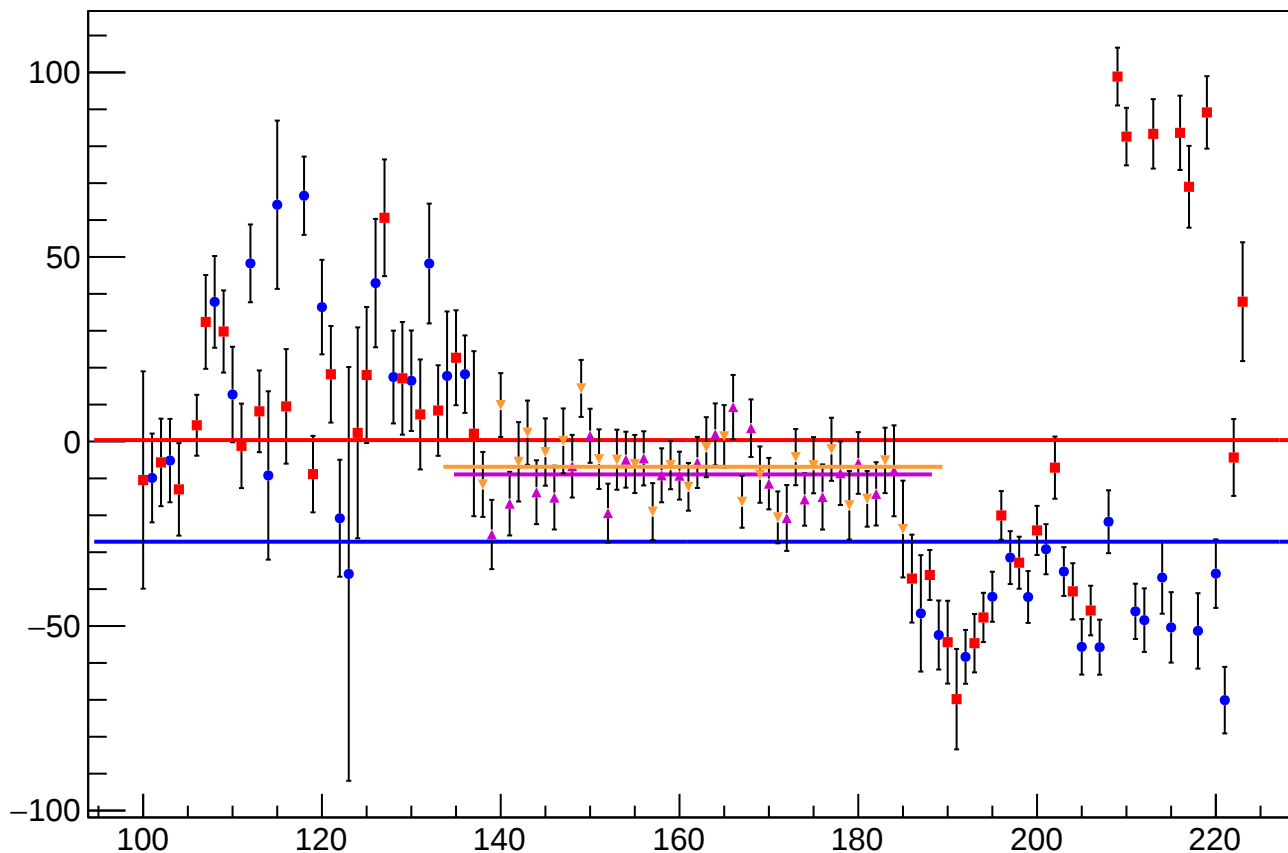
Right: 1262.239 $\pm$ 0.156 χ^2/NDF : 14110637.8/73

In: 1293.673 $\pm$ 0.160 χ^2/NDF : 8819244.4/57

Out: 1261.732 $\pm$ 0.151 χ^2/NDF : 6934017.5/63

All: 1276.754 $\pm$ 0.110 χ^2/NDF : 15774245.1/131

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -27.153 $\pm$ 1.652 χ^2/NDF : 415.9/34

Left Out: -6.854 $\pm$ 1.616 χ^2/NDF : 28.7/24

Right Out: 0.377 $\pm$ 1.590 χ^2/NDF : 892.4/38

Left In: -8.923 $\pm$ 1.674 χ^2/NDF : 21.8/22

Left: -7.852 $\pm$ 1.163 χ^2/NDF : 51.3/47

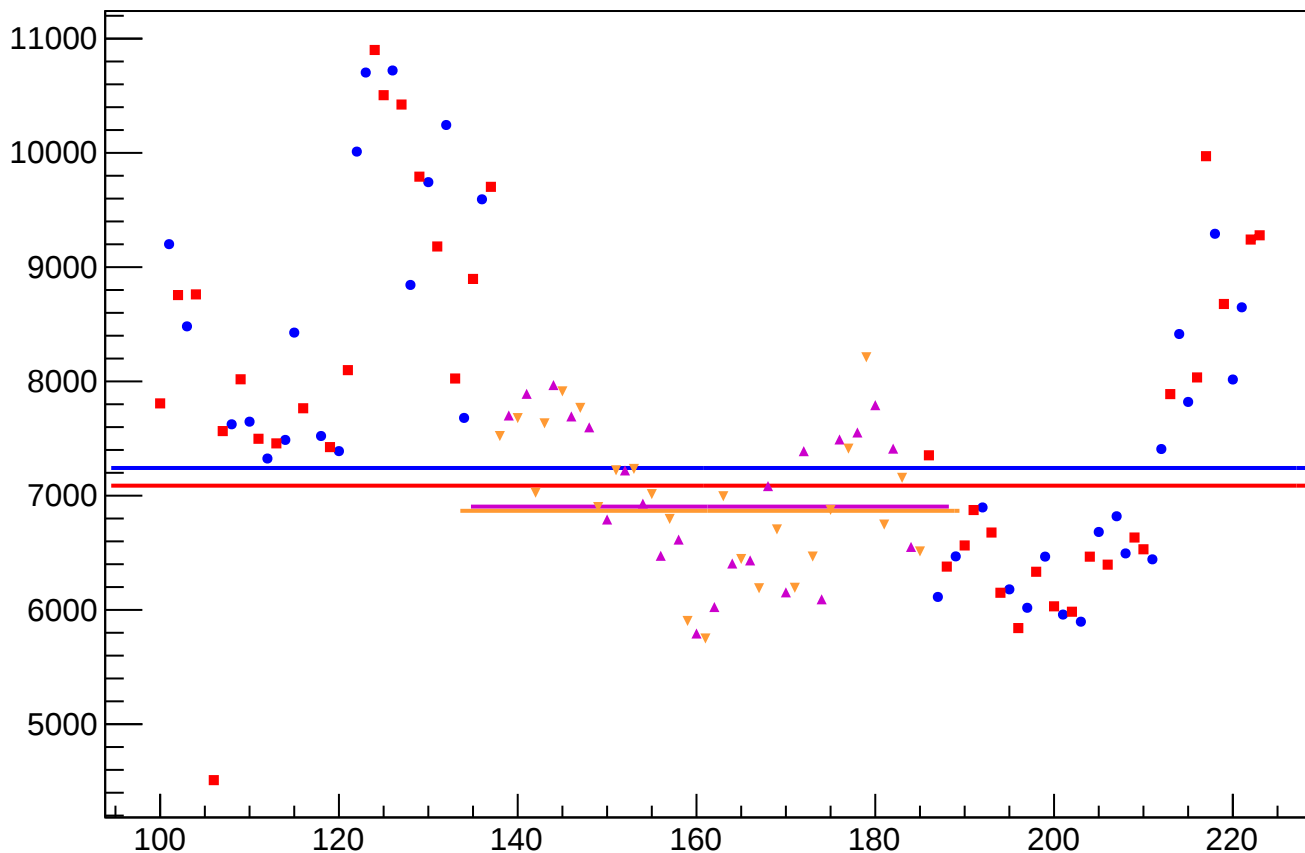
Right: -12.862 $\pm$ 1.146 χ^2/NDF : 1452.4/73

In: -18.161 $\pm$ 1.176 χ^2/NDF : 497.8/57

Out: -3.181 $\pm$ 1.133 χ^2/NDF : 931.2/63

All: -10.394 $\pm$ 0.816 χ^2/NDF : 1513.1/121

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7242.210+/-1.168 χ^2/NDF : 1057056.9/34

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

Right Out: 7087.507+/-1.124 χ^2/NDF : 1330735.7/38

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

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

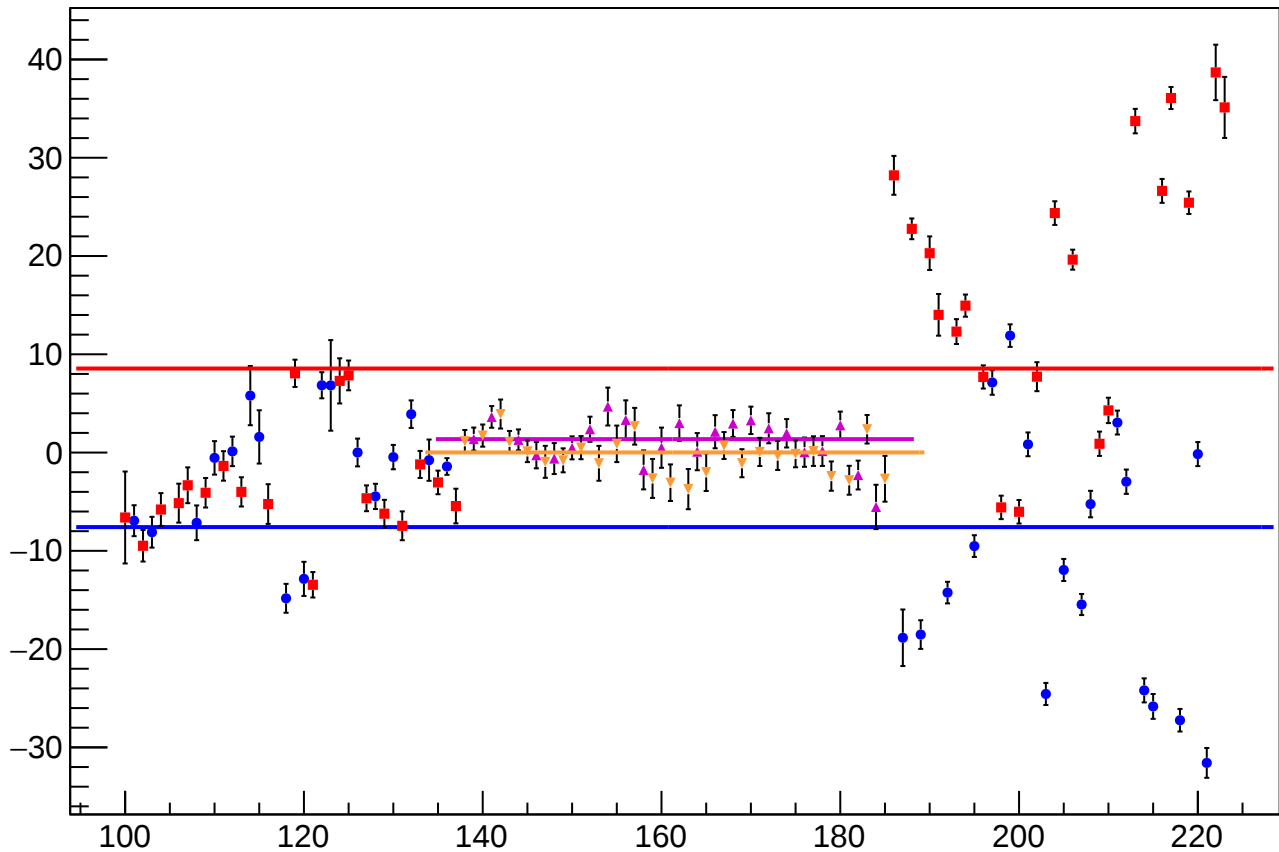
Right: 7161.903+/-0.810 χ^2/NDF : 2396897.9/73

In: 7075.437+/-0.832 χ^2/NDF : 1424293.2/57

Out: 6979.194+/-0.801 χ^2/NDF : 1656494.1/63

All: 7025.536+/-0.577 χ^2/NDF : 3087733.4/12

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -7.585 ± 0.228 $\chi^2/\text{NDF}: 2383.4/34$

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

Right Out: 8.552 ± 0.227 $\chi^2/\text{NDF}: 3999.3/38$

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

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

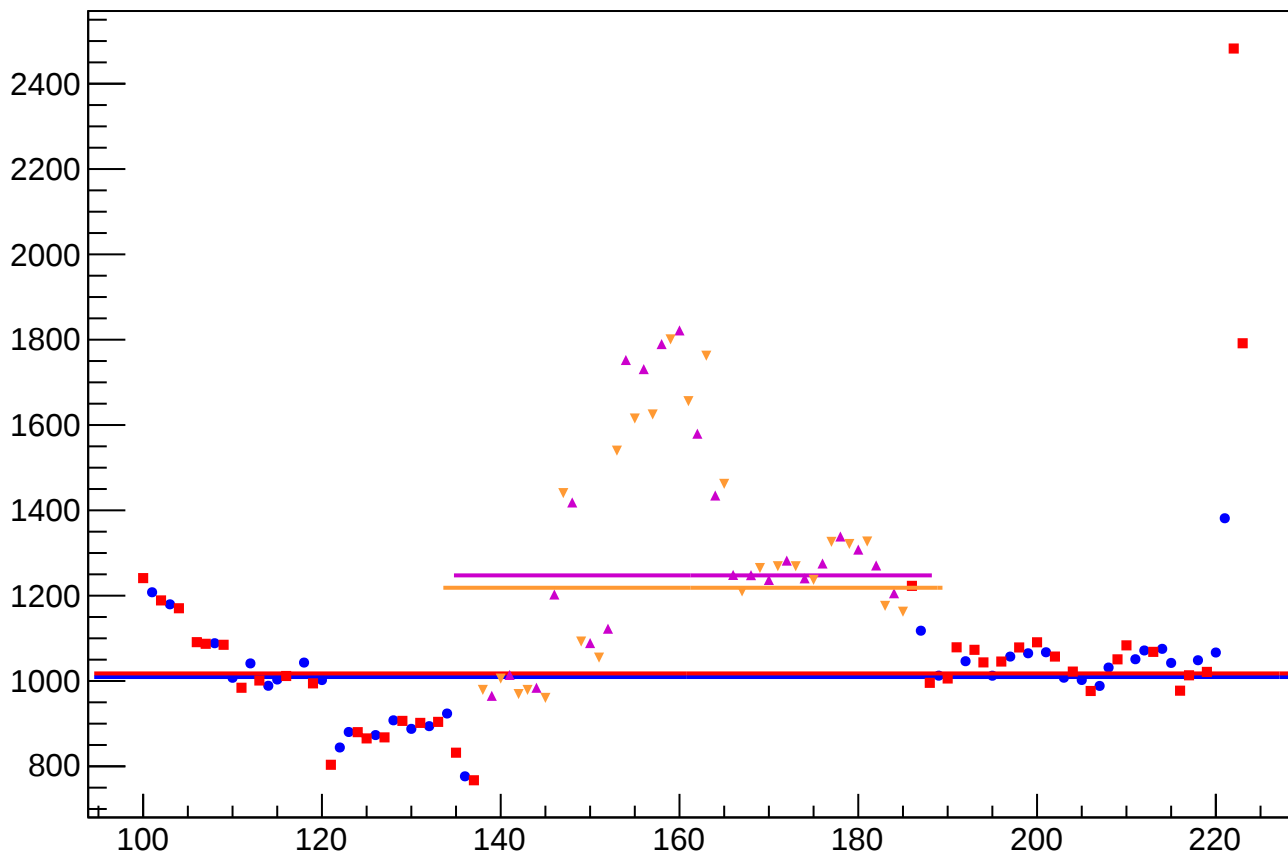
Right: 0.531 ± 0.161 $\chi^2/\text{NDF}: 8904.7/73$

In: -4.385 ± 0.183 $\chi^2/\text{NDF}: 2973.4/57$

Out: 5.315 ± 0.179 $\chi^2/\text{NDF}: 4572.7/63$

All: 0.576 ± 0.128 $\chi^2/\text{NDF}: 8988.7/121$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 1009.301 ± 0.161 $\chi^2/\text{NDF}: 472276.6/34$

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

Right Out: 1017.741 ± 0.160 $\chi^2/\text{NDF}: 1012634.3/38$

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

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

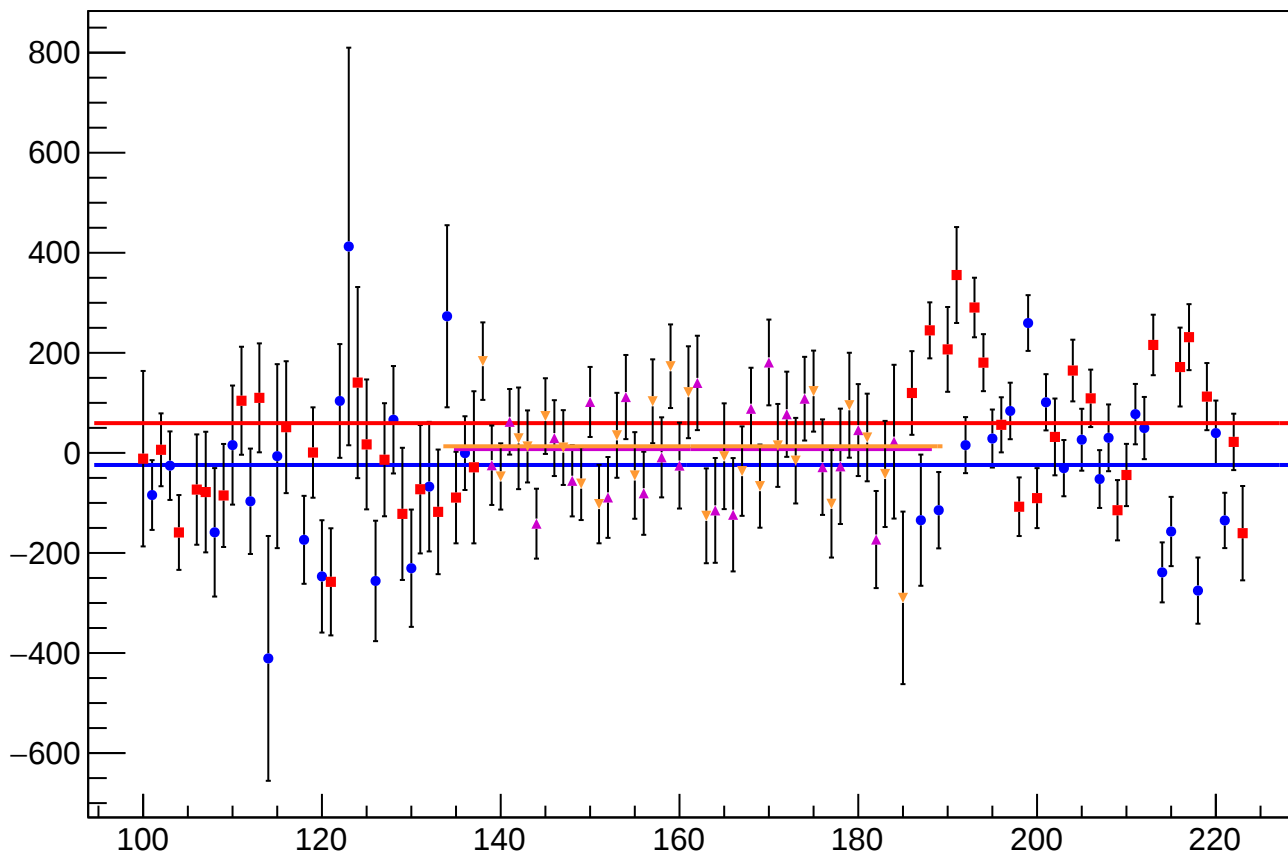
Right: 1013.546 ± 0.114 $\chi^2/\text{NDF}: 1486290.6/73$

In: 1094.471 ± 0.129 $\chi^2/\text{NDF}: 2327113.8/57$

Out: 1093.865 ± 0.126 $\chi^2/\text{NDF}: 2874165.3/63$

All: 1094.161 ± 0.090 $\chi^2/\text{NDF}: 5201290.3/12$

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -24.147 ± 12.706 $\chi^2/\text{NDF}: 104.4/34$

Left Out: 13.207 ± 17.146 $\chi^2/\text{NDF}: 26.8/24$

Right Out: 59.487 ± 12.522 $\chi^2/\text{NDF}: 127.1/38$

Left In: 7.618 ± 17.672 $\chi^2/\text{NDF}: 28.1/22$

Left: 10.497 ± 12.306 $\chi^2/\text{NDF}: 55.0/47$

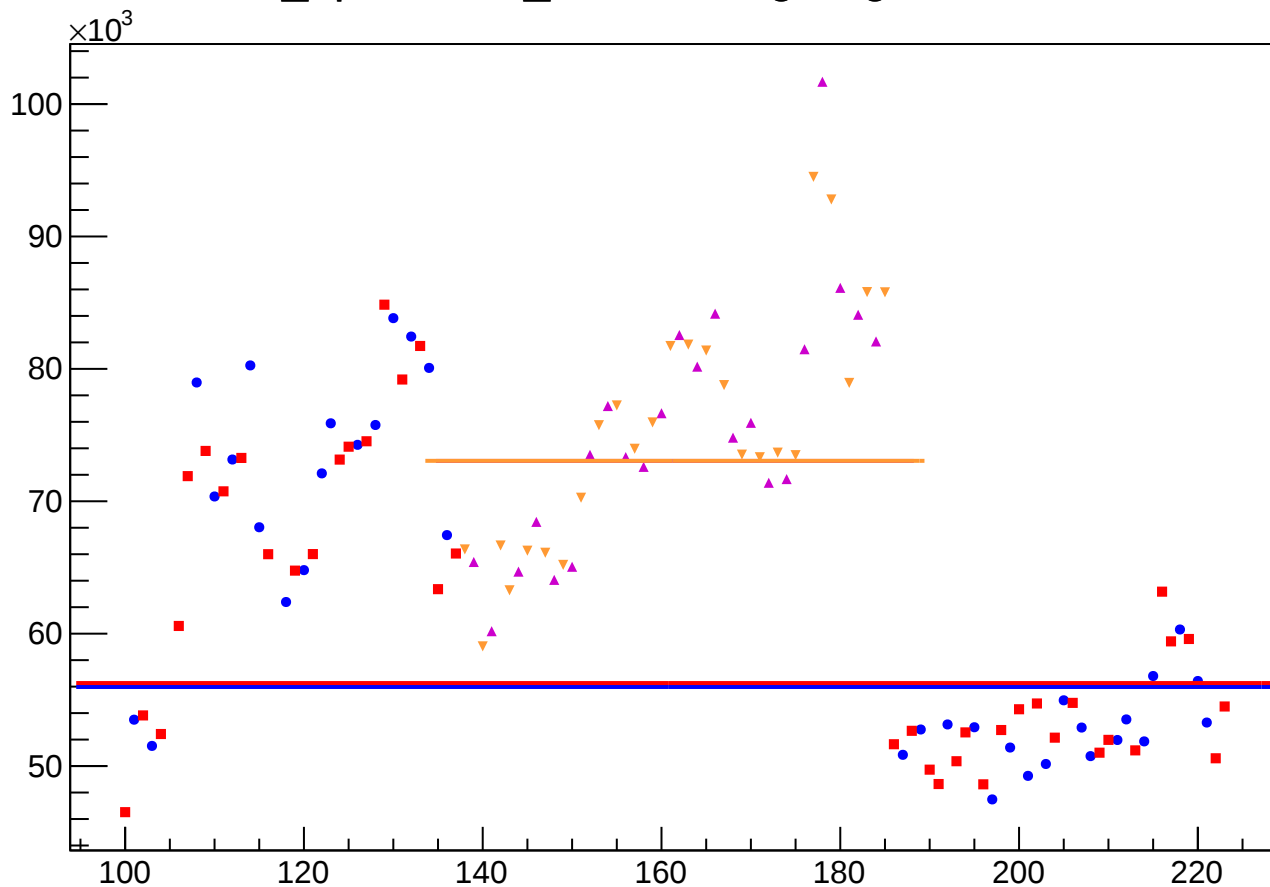
Right: 18.280 ± 8.919 $\chi^2/\text{NDF}: 253.5/73$

In: -13.321 ± 10.316 $\chi^2/\text{NDF}: 134.6/57$

Out: 43.389 ± 10.112 $\chi^2/\text{NDF}: 158.7/63$

All: 15.600 ± 7.222 $\chi^2/\text{NDF}: 308.7/121$

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 55973.139+/-8.985 χ^2/NDF : 827670.6/34

Left Out: 73054.401+/-12.124 χ^2/NDF : 473050.9/24

Right Out: 56269.717+/-8.854 χ^2/NDF : 816514.0/38

Left In: 73045.500+/-12.496 χ^2/NDF : 463525.5/22

Left: 73050.085+/-8.701 χ^2/NDF : 936576.6/47

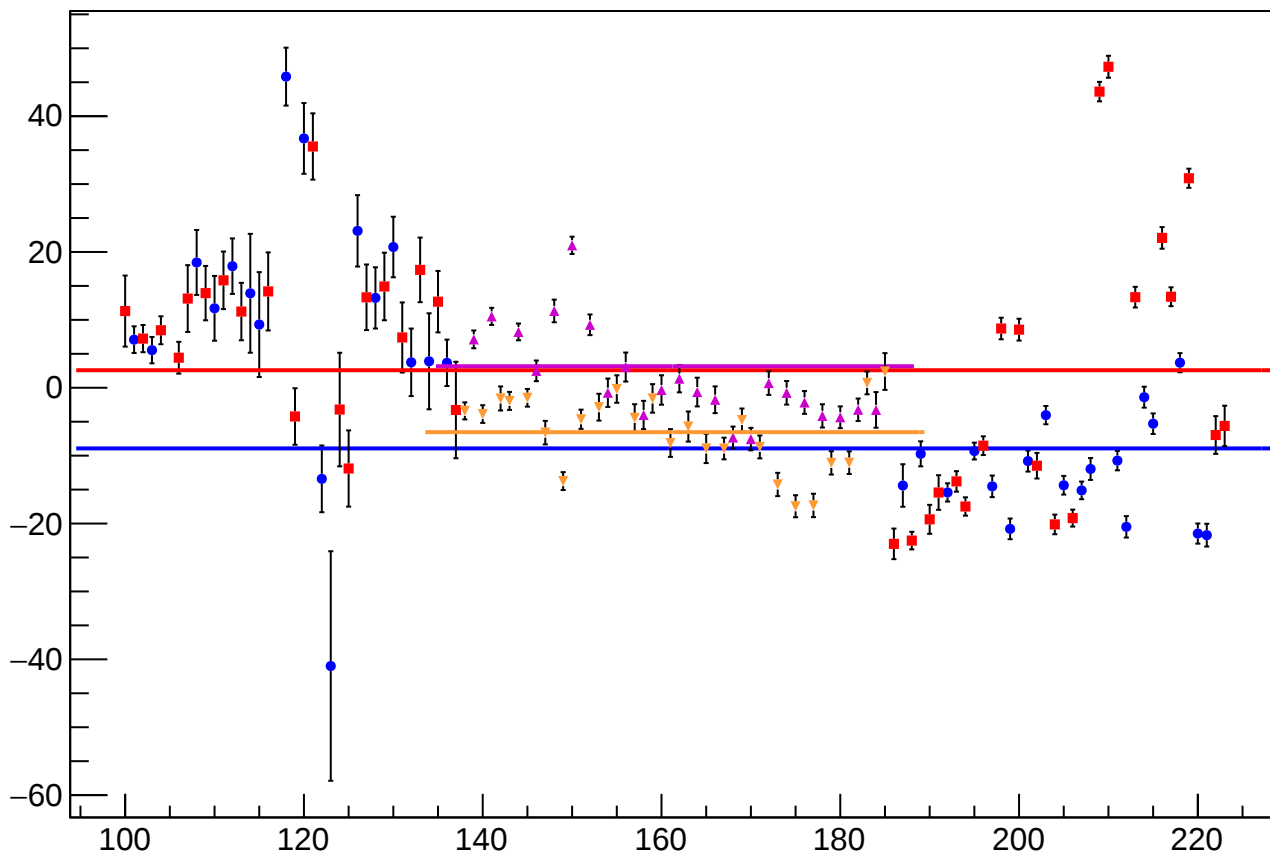
Right: 56123.592+/-6.307 χ^2/NDF : 1644737.3/73

In: 61791.406+/-7.295 χ^2/NDF : 2521698.7/57

Out: 62108.095+/-7.151 χ^2/NDF : 2539470.9/63

All: 61952.911+/-5.106 χ^2/NDF : 5062130.8/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.933 ± 0.332 $\chi^2/\text{NDF}: 1055.0/34$

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

Right Out: 2.581 ± 0.330 $\chi^2/\text{NDF}: 4098.5/38$

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

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

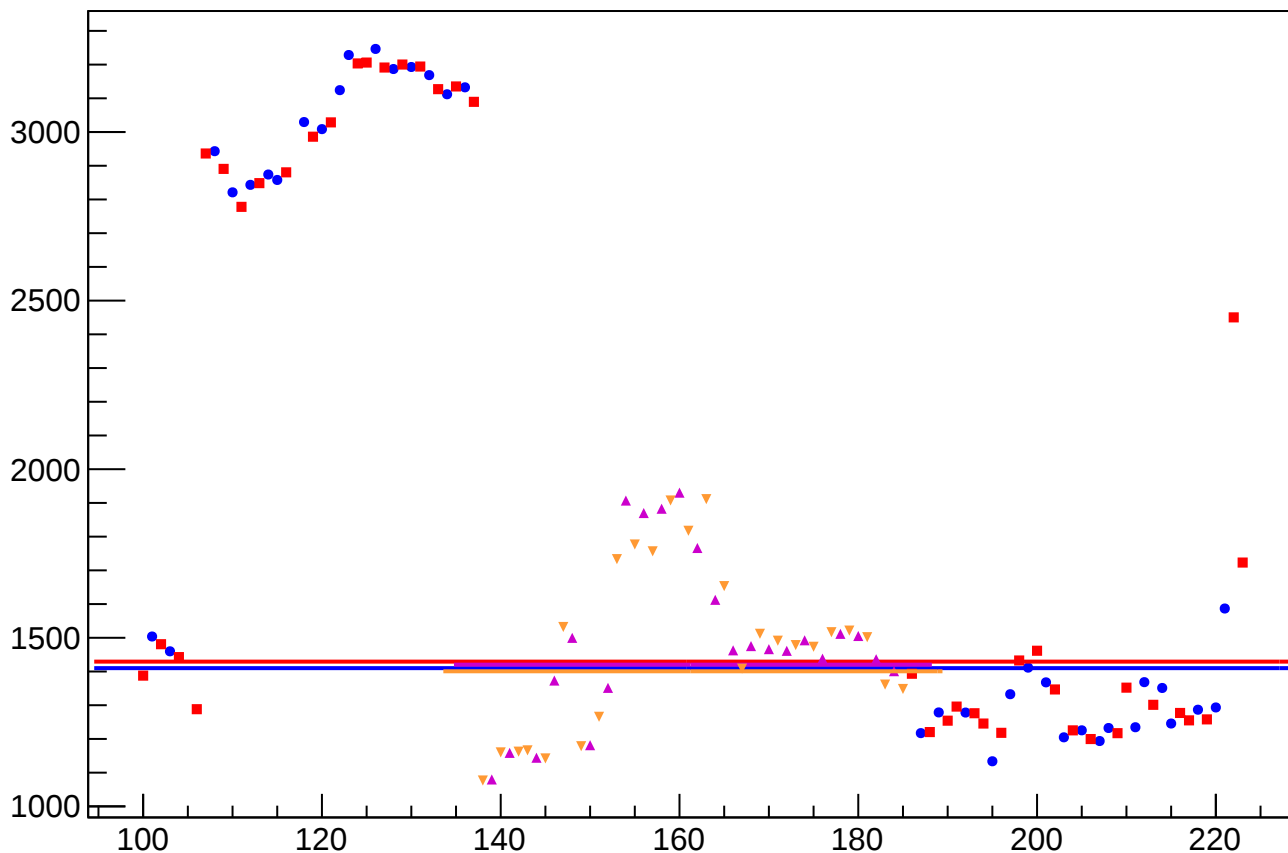
Right: -3.154 ± 0.234 $\chi^2/\text{NDF}: 5758.0/73$

In: -3.143 ± 0.240 $\chi^2/\text{NDF}: 2179.0/57$

Out: -1.960 ± 0.234 $\chi^2/\text{NDF}: 4730.3/63$

All: -2.538 ± 0.167 $\chi^2/\text{NDF}: 6921.7/121$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1409.964 $\pm$ 0.235 χ^2 /NDF: 3662914.1/34

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF: 1037921.6/24

Right Out: 1429.322 $\pm$ 0.234 χ^2 /NDF: 3923619.0/38

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

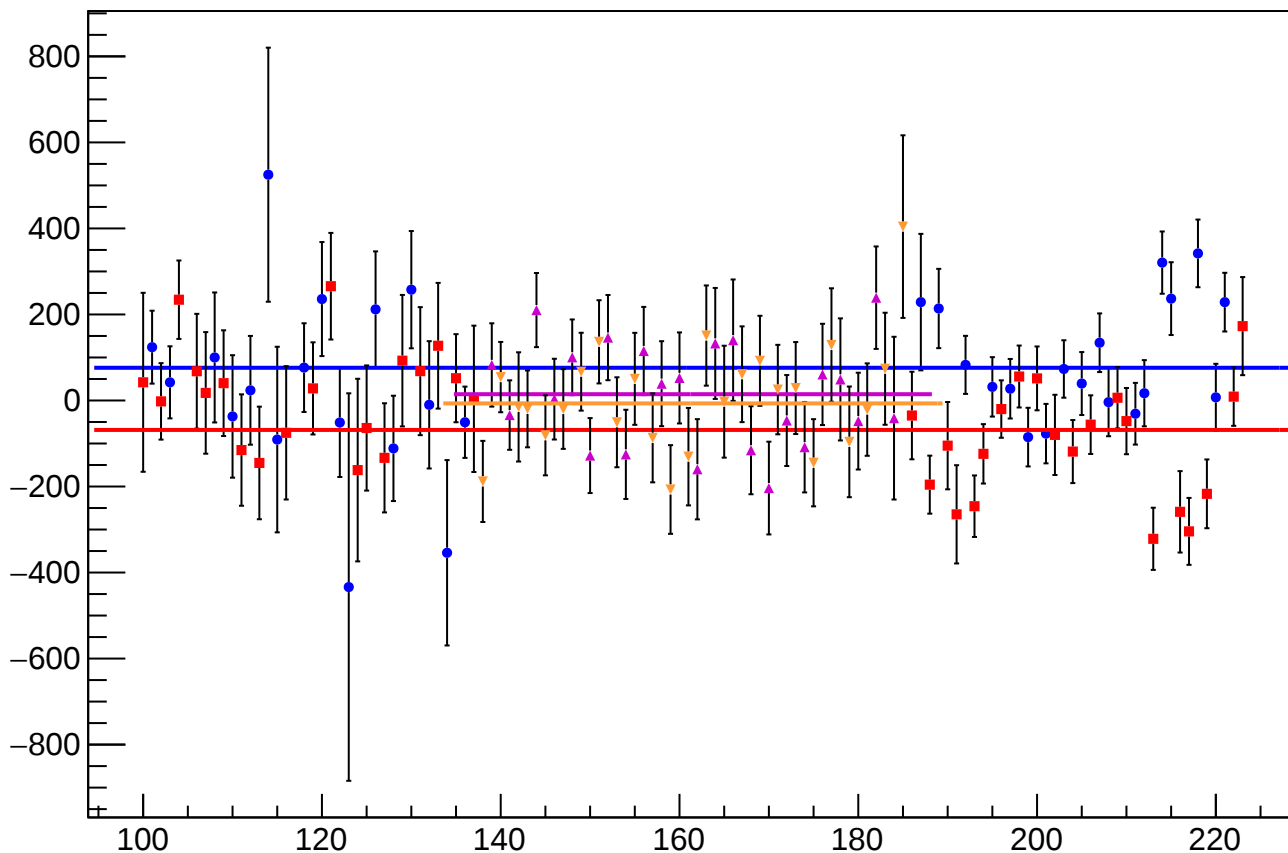
Right: 1419.681 $\pm$ 0.166 χ^2 /NDF: 7589951.2/73

In: 1414.901 $\pm$ 0.169 χ^2 /NDF: 4569026.3/57

Out: 1415.038 $\pm$ 0.166 χ^2 /NDF: 4969044.6/63

All: 1414.971 $\pm$ 0.118 χ^2 /NDF: 9538071.2/12

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 76.067 $\pm$ 15.221 χ^2 /NDF: 71.4/34

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

Right Out: -68.461 $\pm$ 14.998 χ^2 /NDF: 84.5/38

Left In: 14.611 $\pm$ 21.846 χ^2 /NDF:29.8/22

Left: 3.596 $\pm$ 15.219 χ^2 /NDF: 55.0/47

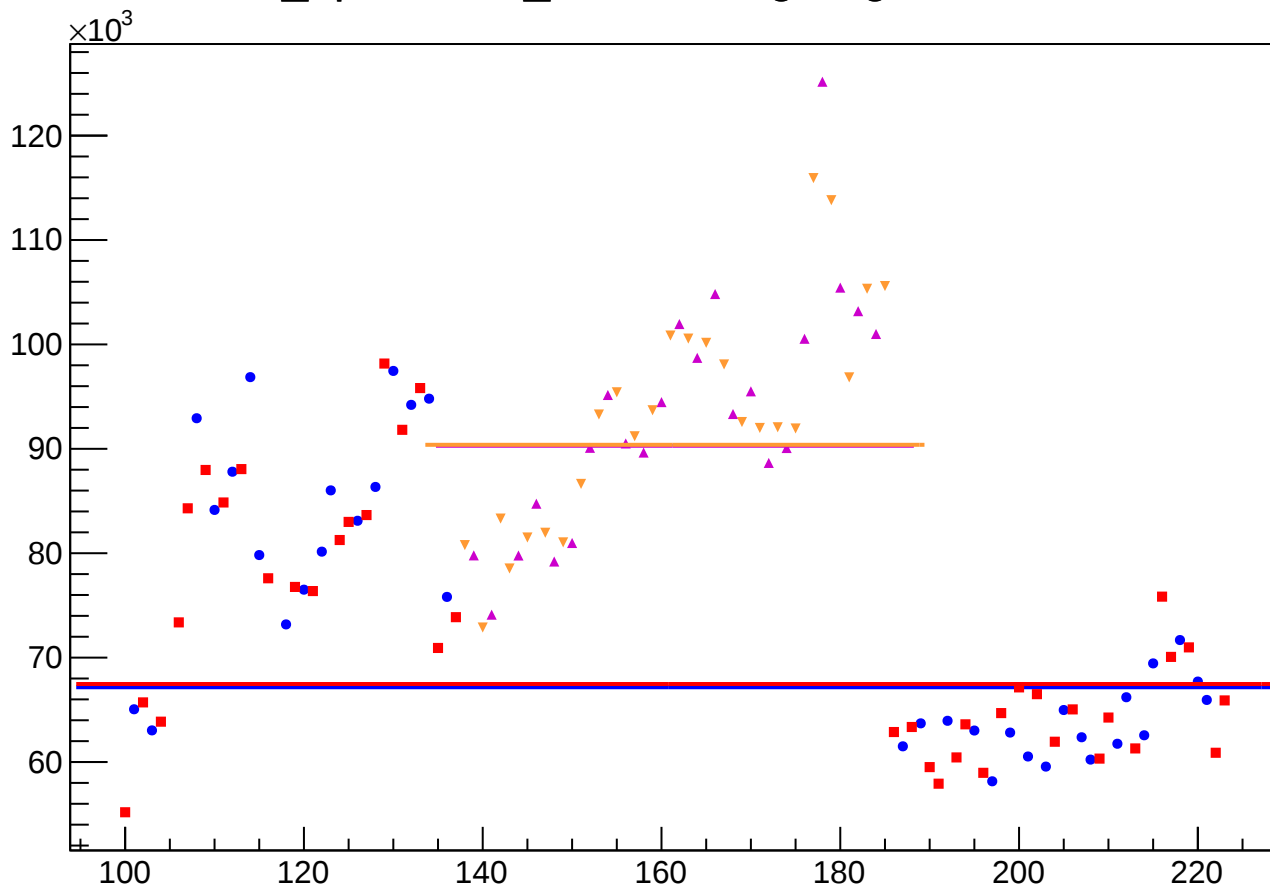
Right: 2.735 $\pm$ 10.683 χ^2 /NDF: 201.6/73

In: 55.983 $\pm$ 12.489 χ^2 /NDF:106.5/57

Out: -47.908 $\pm$ 12.246 χ^2 /NDF:114.8/63

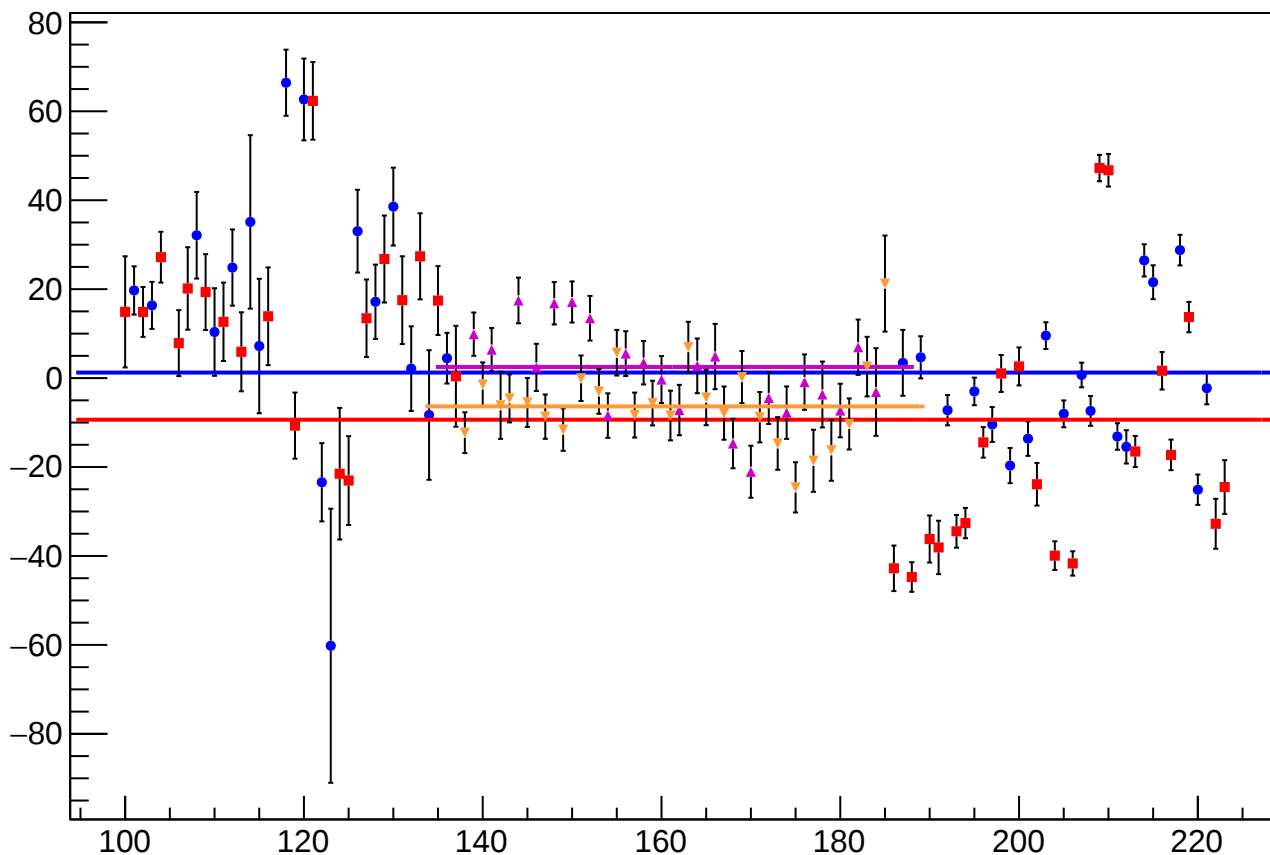
All: 3.020 $\pm$ 8.744 χ^2 /NDF: 256.6/121

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67162.827 ± 10.763	$\chi^2/\text{NDF}: 670777.1/34$	Left: 90340.563 ± 10.761	$\chi^2/\text{NDF}: 923003.7/47$
Left Out: 90384.853 ± 15.000	$\chi^2/\text{NDF}: 461648.2/24$	Right: 67319.980 ± 7.554	$\chi^2/\text{NDF}: 1359870.3/73$
Right Out: 67472.558 ± 10.605	$\chi^2/\text{NDF}: 688673.1/38$	In: 74721.970 ± 8.831	$\chi^2/\text{NDF}: 2641516.8/57$
Left In: 90293.591 ± 15.448	$\chi^2/\text{NDF}: 461337.5/22$	Out: 75108.538 ± 8.659	$\chi^2/\text{NDF}: 2705956.3/63$
		All: 74919.042 ± 6.183	$\chi^2/\text{NDF}: 5348450.0/1$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.245 ± 0.766 χ^2/NDF : 537.5/34

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

Right Out: -9.357 ± 0.781 χ^2/NDF : 1465.1/38

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

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

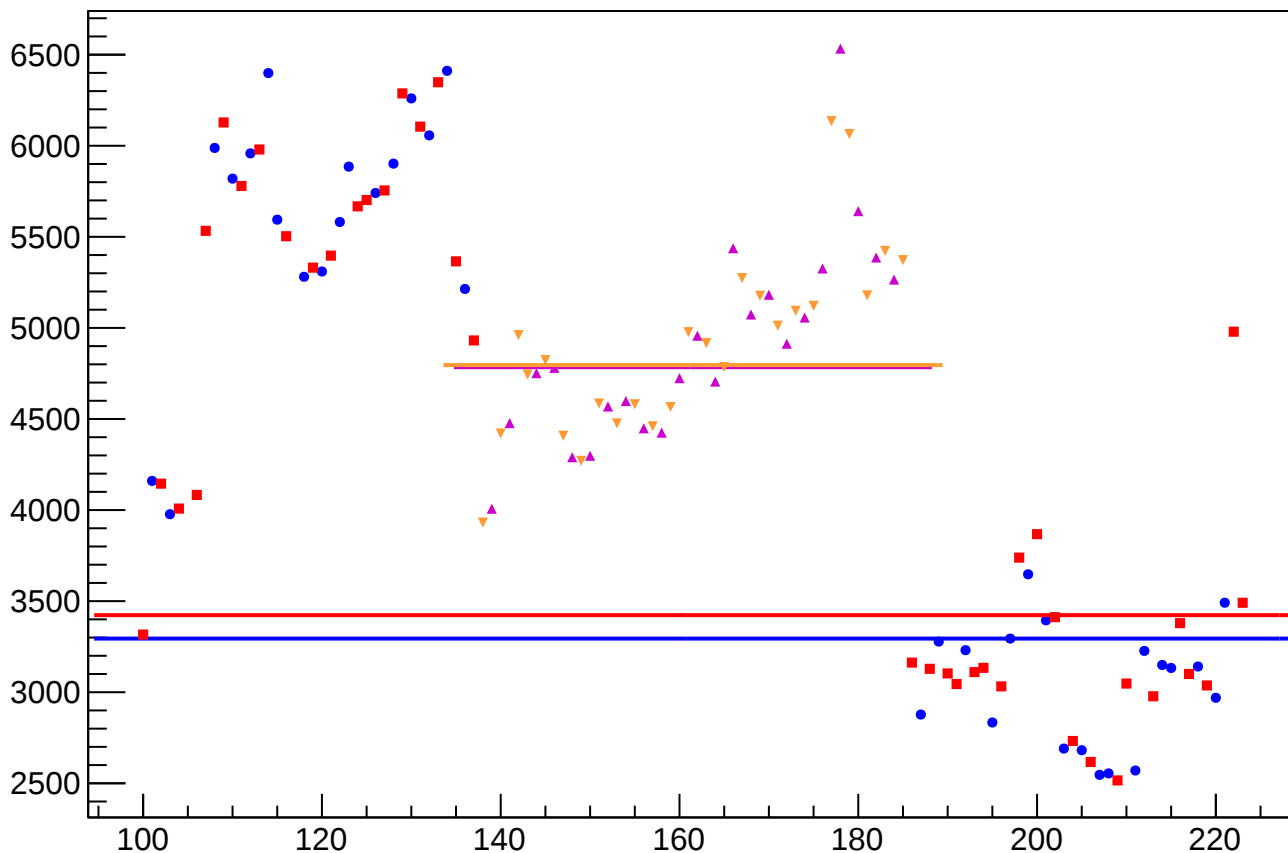
Right: -3.956 ± 0.547 χ^2/NDF : 2096.5/73

In: 1.628 ± 0.639 χ^2/NDF : 616.7/57

Out: -8.384 ± 0.641 χ^2/NDF : 1515.3/63

All: -3.358 ± 0.453 χ^2/NDF : 2254.4/121

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3294.386 ± 0.542 $\chi^2/\text{NDF}: 2724207.4/34$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3423.013 ± 0.552 $\chi^2/\text{NDF}: 2772212.8/38$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

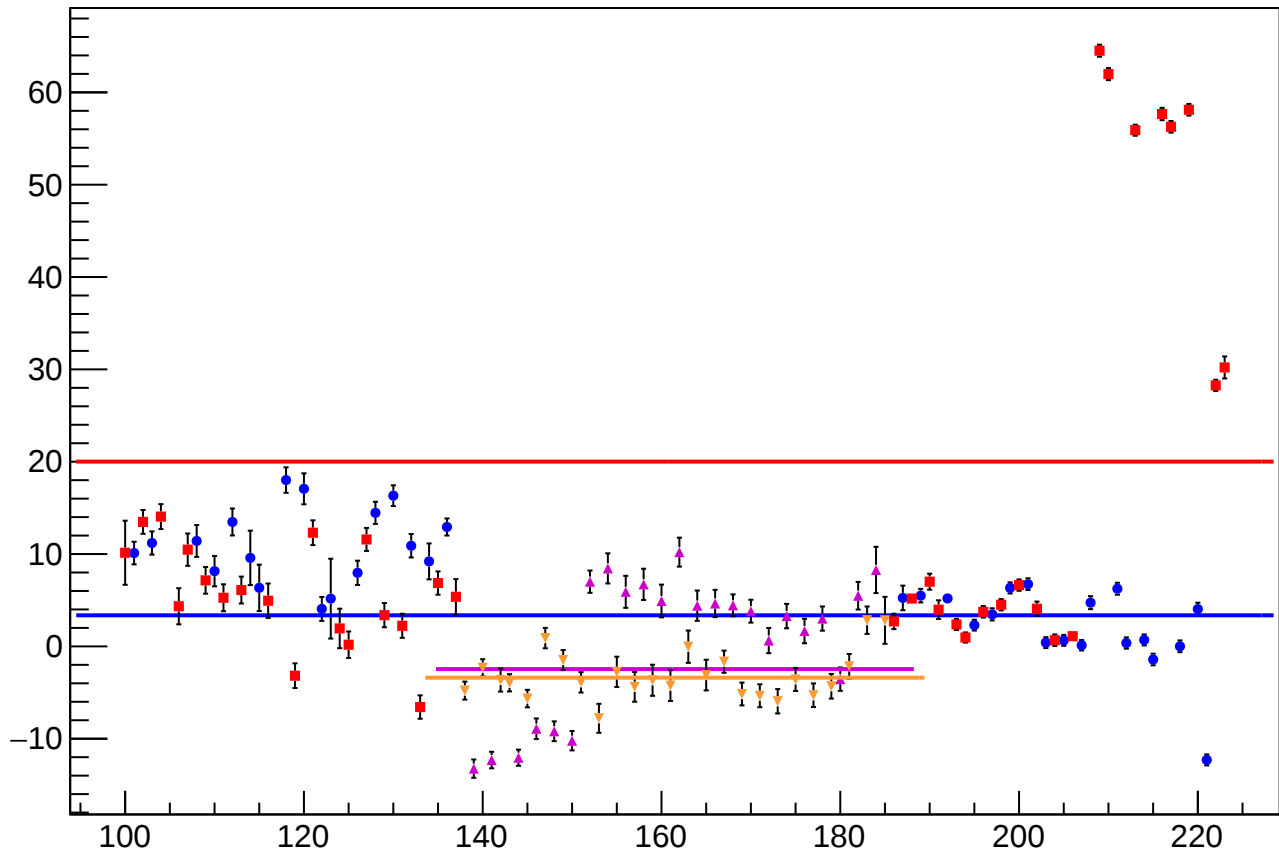
Right: 3357.491 ± 0.387 $\chi^2/\text{NDF}: 5524061.4/73$

In: 3749.361 ± 0.452 $\chi^2/\text{NDF}: 5390308.4/57$

Out: 3870.000 ± 0.453 $\chi^2/\text{NDF}: 5146056.6/63$

All: 3809.440 ± 0.320 $\chi^2/\text{NDF}: 10571895.7/120$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 3.365 ± 0.137 $\chi^2/\text{NDF}: 1725.5/34$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 20.012 ± 0.134 $\chi^2/\text{NDF}: 33047.1/38$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

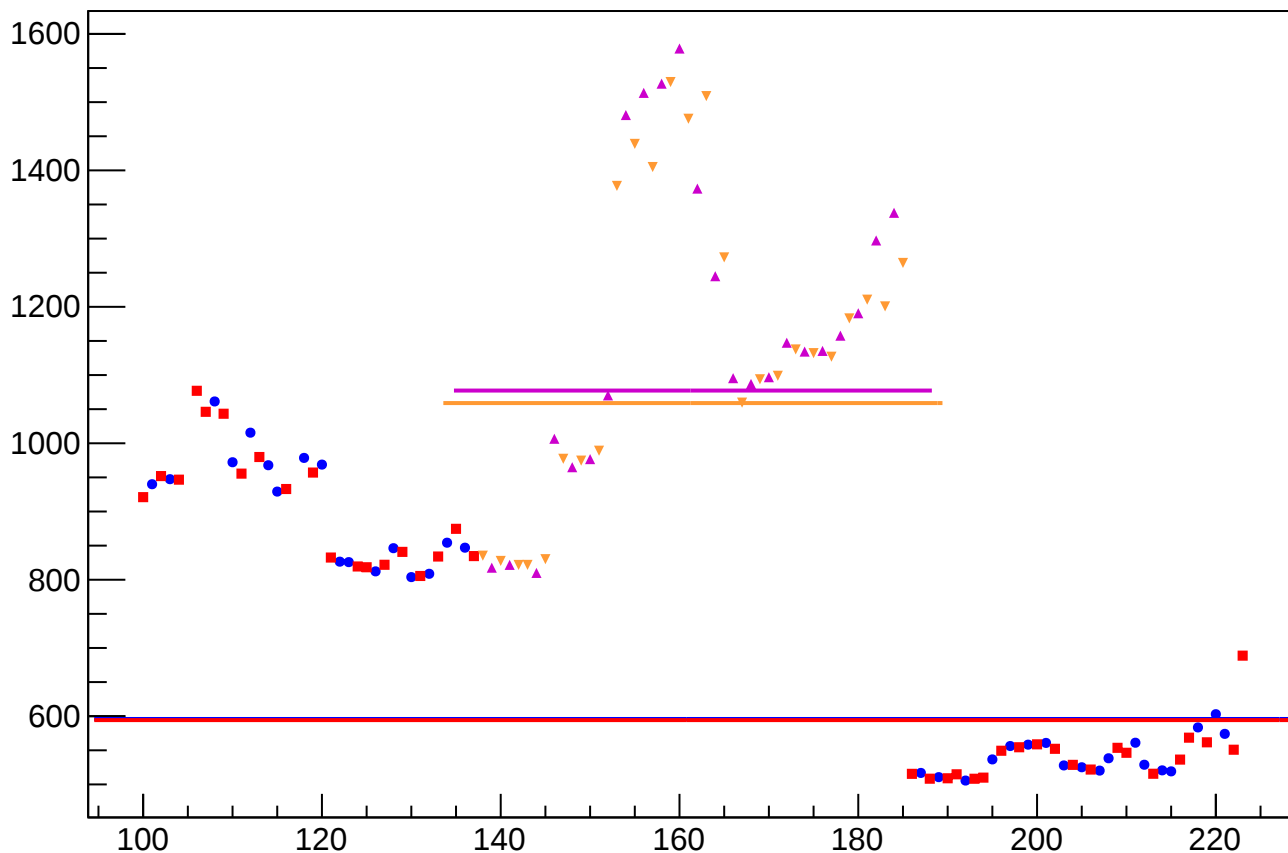
Right: 11.853 ± 0.096 $\chi^2/\text{NDF}: 42339.3/73$

In: 2.137 ± 0.121 $\chi^2/\text{NDF}: 3036.7/57$

Out: 14.863 ± 0.118 $\chi^2/\text{NDF}: 39837.9/63$

All: 8.663 ± 0.085 $\chi^2/\text{NDF}: 48510.7/121$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 595.908 $\pm$ 0.097 χ^2 /NDF: 1899937.0/34

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 594.271 $\pm$ 0.095 χ^2 /NDF: 2136872.8/38

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

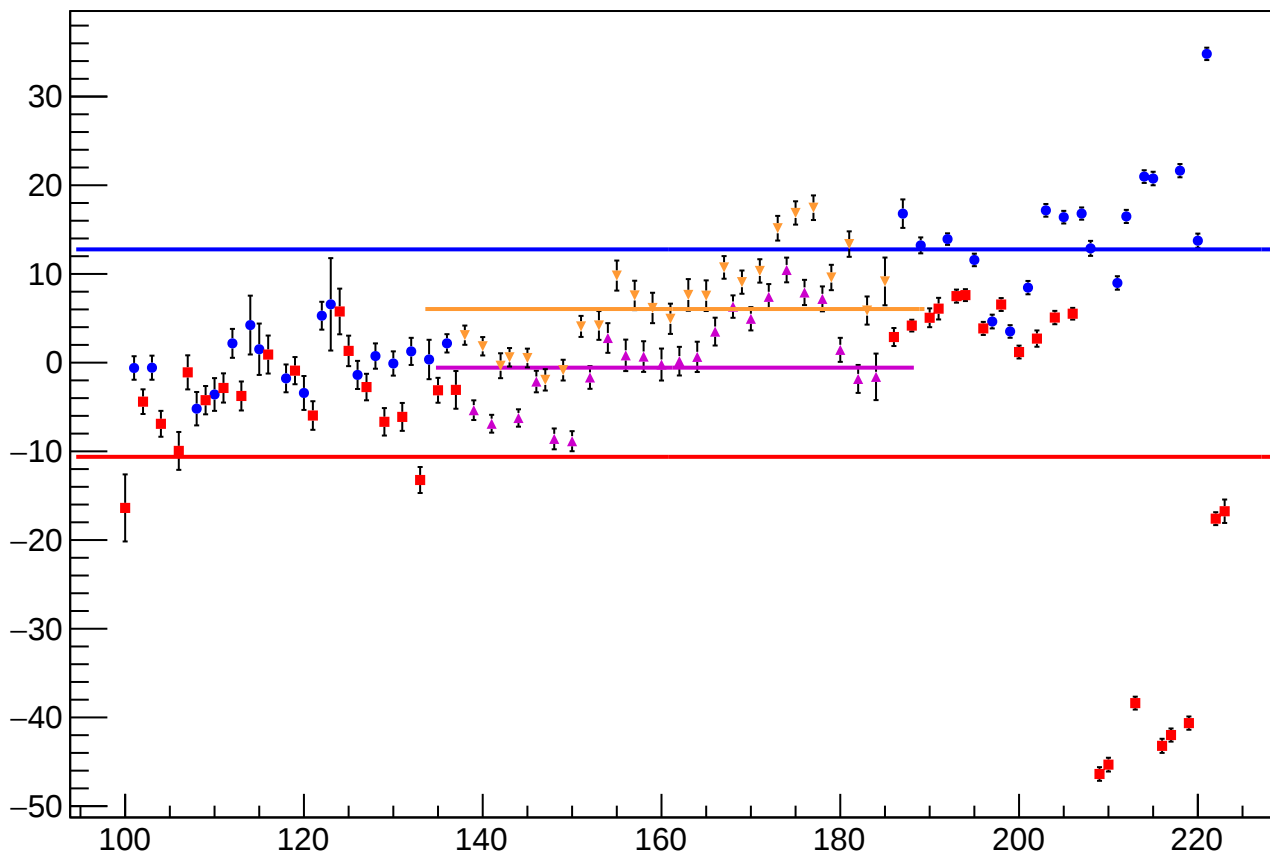
Right: 595.073 $\pm$ 0.068 χ^2 /NDF: 4036956.3/73

In: 697.414 $\pm$ 0.086 χ^2 /NDF:8413172.3/57

Out: 696.508 $\pm$ 0.084 χ^2 /NDF:8833405.0/63

All: 696.949 $\pm$ 0.060 χ^2 /NDF: 17246634.4/12

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 12.769 ± 0.163 $\chi^2/\text{NDF}: 2898.3/34$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: -10.619 ± 0.159 $\chi^2/\text{NDF}: 16057.7/38$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

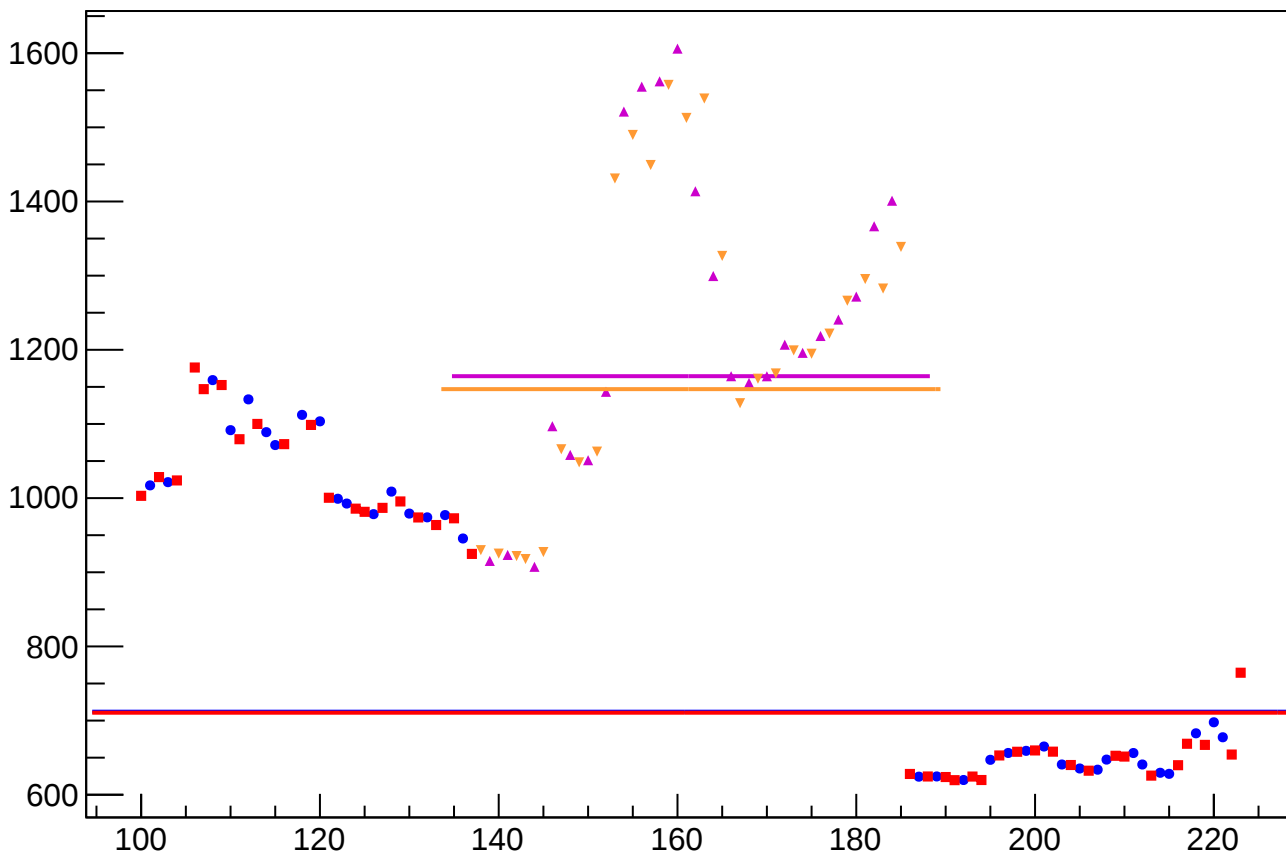
Right: 0.848 ± 0.114 $\chi^2/\text{NDF}: 29502.6/73$

In: 9.479 ± 0.141 $\chi^2/\text{NDF}: 4974.8/57$

Out: -6.349 ± 0.138 $\chi^2/\text{NDF}: 19286.9/63$

All: 1.361 ± 0.098 $\chi^2/\text{NDF}: 30714.0/121$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 712.011 $\pm$ 0.115 χ^2 /NDF: 1572580.2/34

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 710.628 $\pm$ 0.113 χ^2 /NDF: 1752865.2/38

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

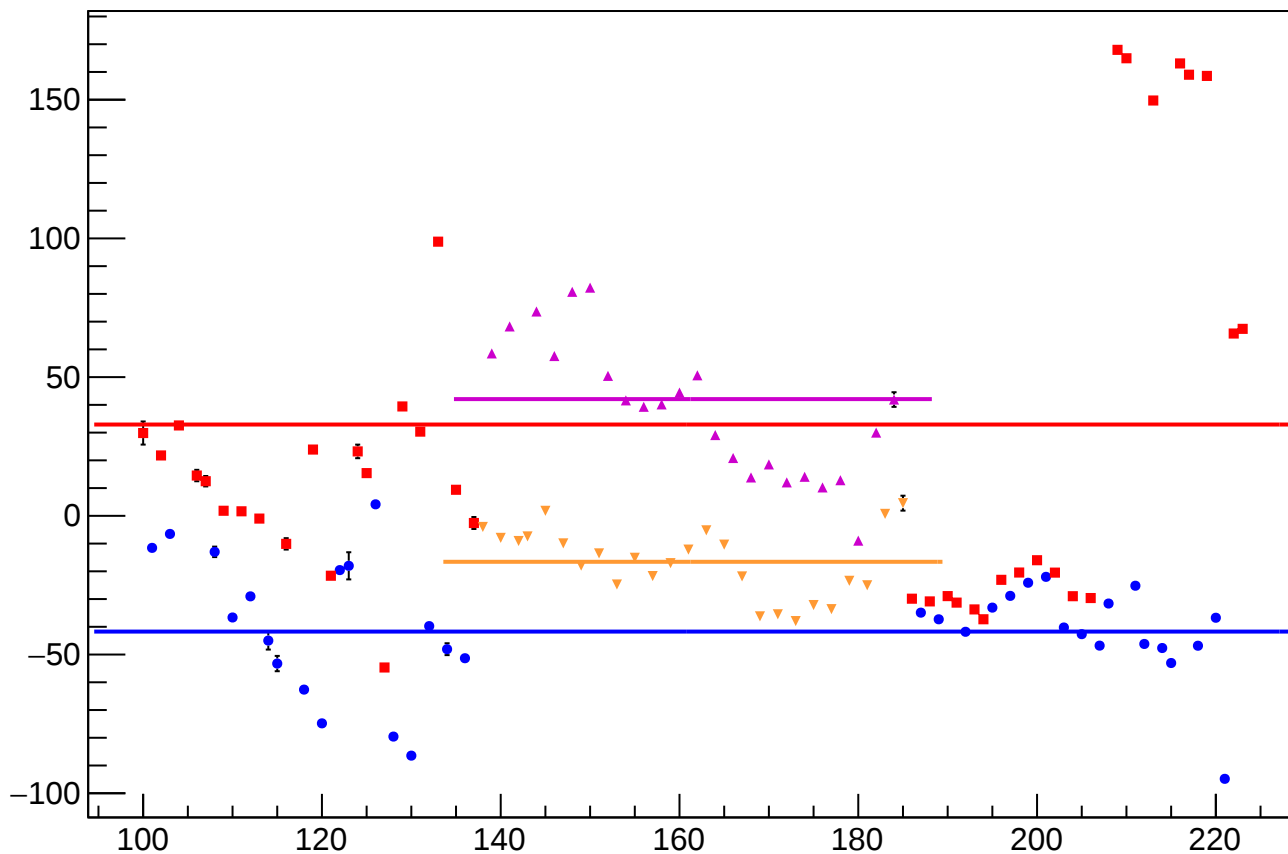
Right: 711.306 $\pm$ 0.081 χ^2 /NDF: 3325519.2/73

In: 823.627 $\pm$ 0.100 χ^2 /NDF:6336741.4/57

Out: 822.435 $\pm$ 0.097 χ^2 /NDF:6635760.6/63

All: 823.015 $\pm$ 0.070 χ^2 /NDF: 12972575.3/120

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.722 ± 0.161 $\chi^2/\text{NDF}: 13504.7/34$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 32.912 ± 0.158 $\chi^2/\text{NDF}: 253733.7/38$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

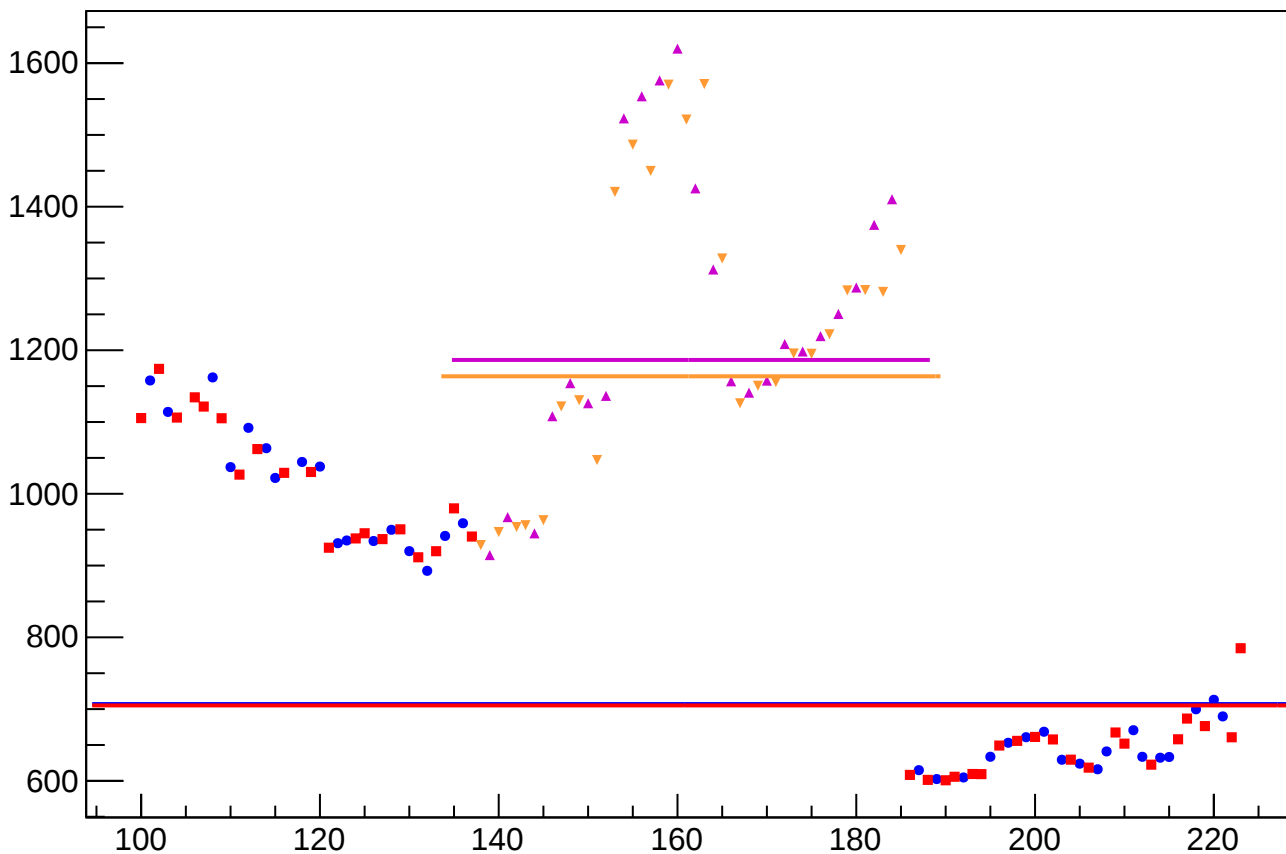
Right: -3.645 ± 0.113 $\chi^2/\text{NDF}: 376360.8/73$

In: -21.813 ± 0.141 $\chi^2/\text{NDF}: 85899.0/57$

Out: 20.635 ± 0.137 $\chi^2/\text{NDF}: 279959.3/63$

All: -0.009 ± 0.098 $\chi^2/\text{NDF}: 412472.7/121$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 707.021 $\pm$ 0.114 χ^2 /NDF: 1552589.8/34

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 705.129 $\pm$ 0.112 χ^2 /NDF: 1720919.0/38

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

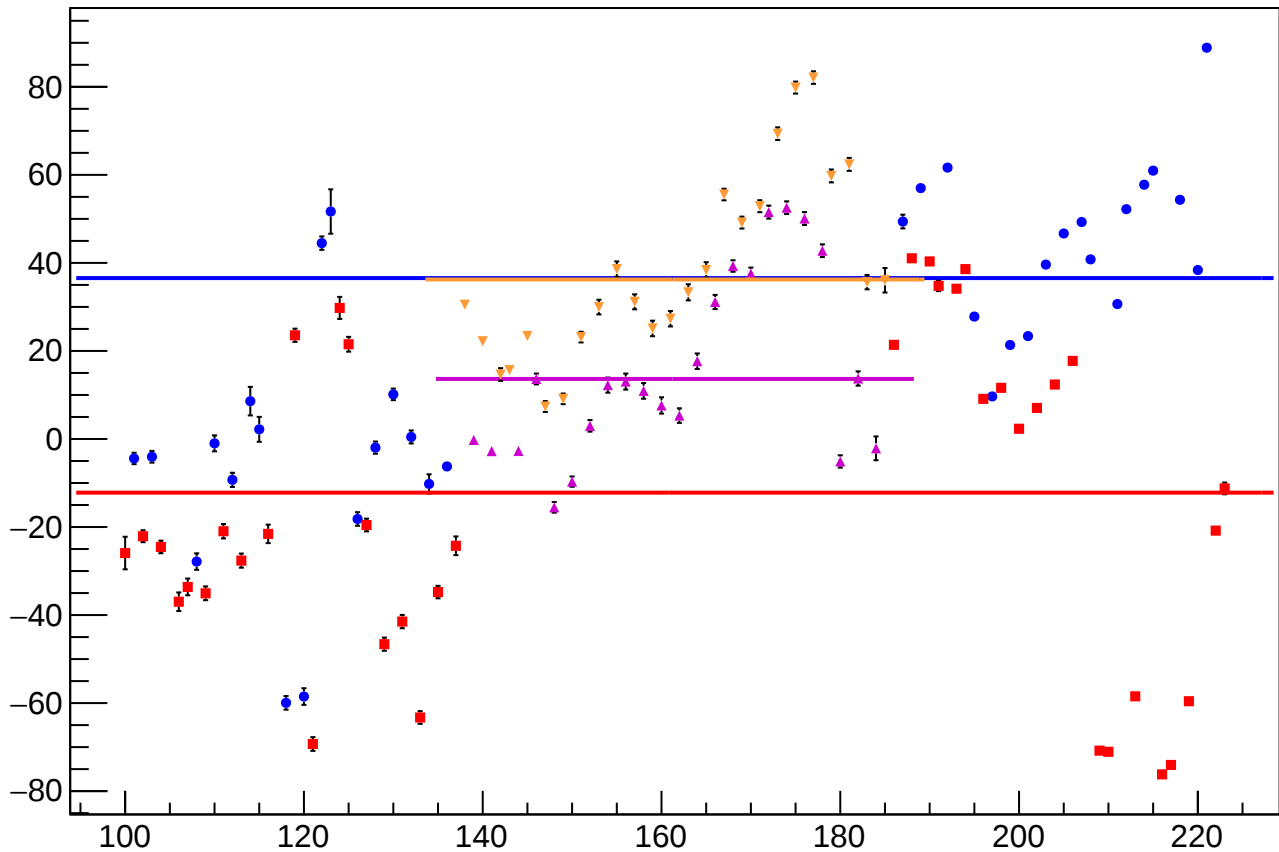
Right: 706.055 $\pm$ 0.080 χ^2 /NDF: 3273649.0/73

In: 820.929 $\pm$ 0.100 χ^2 /NDF: 6580201.7/57

Out: 818.908 $\pm$ 0.097 χ^2 /NDF: 6830364.8/63

All: 819.891 $\pm$ 0.069 χ^2 /NDF: 13410777.9/12

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 36.552 $\pm$ 0.159 χ^2/NDF : 30103.1/34

Left Out: 36.234 $\pm$ 0.280 χ^2/NDF : 5794.2/24

Right Out: -12.191 $\pm$ 0.156 χ^2/NDF : 69331.1/38

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

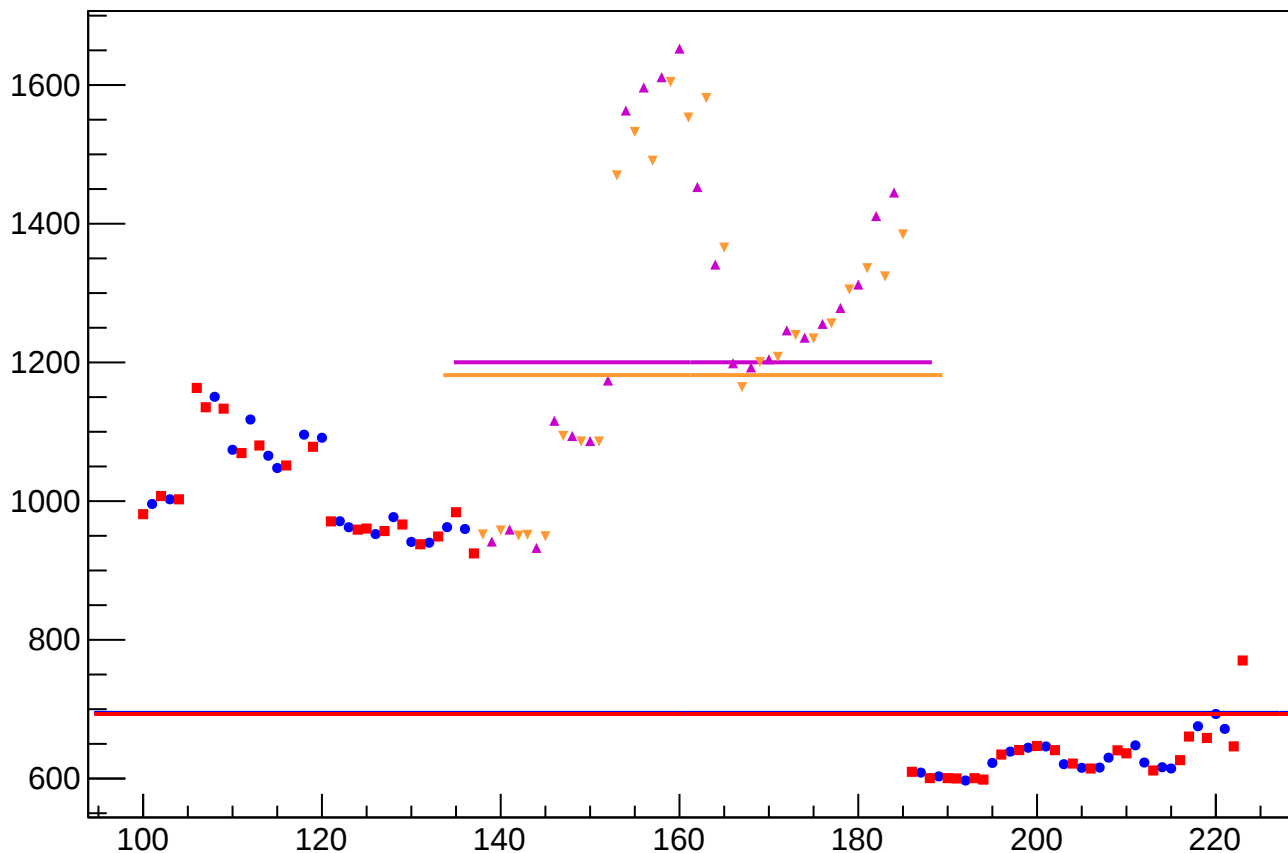
Right: 11.698 $\pm$ 0.111 χ^2/NDF : 147520.4/73

In: 31.348 $\pm$ 0.140 χ^2/NDF : 40013.8/57

Out: -0.756 $\pm$ 0.136 χ^2/NDF : 97993.4/63

All: 14.884 $\pm$ 0.097 χ^2/NDF : 165152.5/121

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 694.698 $\pm$ 0.112 χ^2 /NDF: 1631248.1/34

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 693.100 $\pm$ 0.110 χ^2 /NDF: 1816787.0/38

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

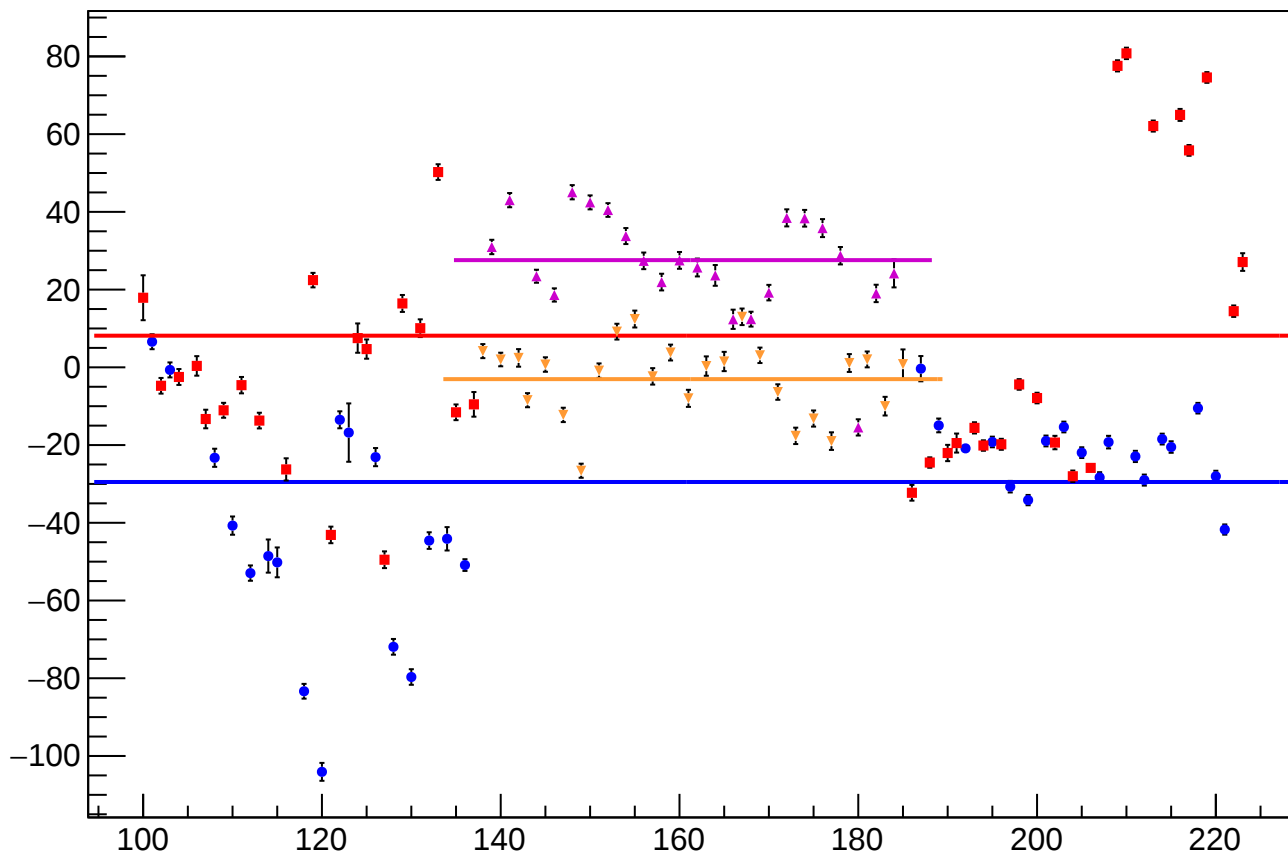
Right: 693.883 $\pm$ 0.079 χ^2 /NDF: 3448138.5/73

In: 809.511 $\pm$ 0.099 χ^2 /NDF:7176897.8/57

Out: 808.483 $\pm$ 0.096 χ^2 /NDF:7517105.8/63

All: 808.984 $\pm$ 0.069 χ^2 /NDF: 14694059.3/12

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -29.502 ± 0.288 χ^2/NDF : 4944.8/34

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: 8.143 ± 0.284 χ^2/NDF : 17870.0/38

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

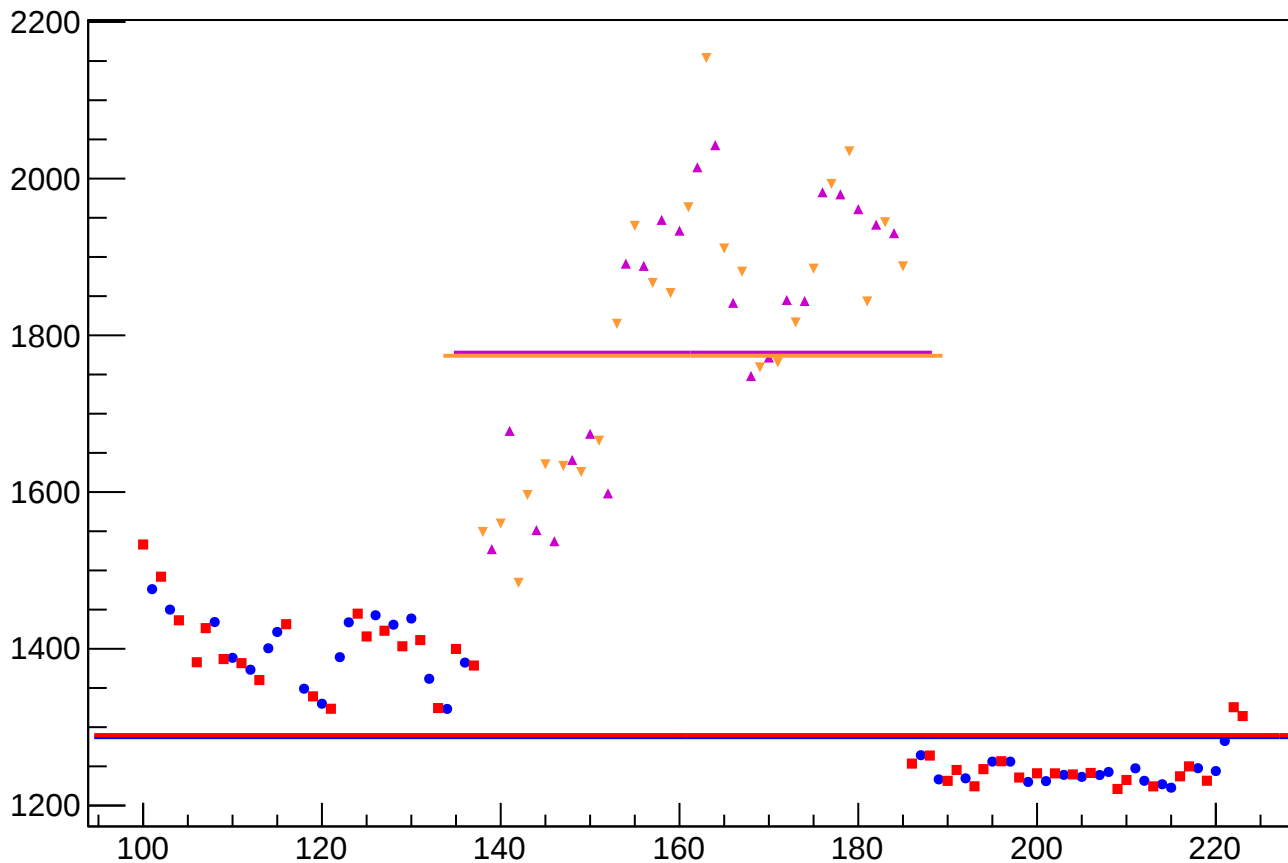
Right: -10.368 ± 0.202 χ^2/NDF : 31470.3/73

In: -11.729 ± 0.239 χ^2/NDF : 18096.8/57

Out: 4.583 ± 0.234 χ^2/NDF : 18920.0/63

All: -3.396 ± 0.167 χ^2/NDF : 39388.6/121

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1287.268 $\pm$ 0.204 χ^2 /NDF: 140635.3/34

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1289.941 $\pm$ 0.201 χ^2 /NDF: 140695.1/38

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

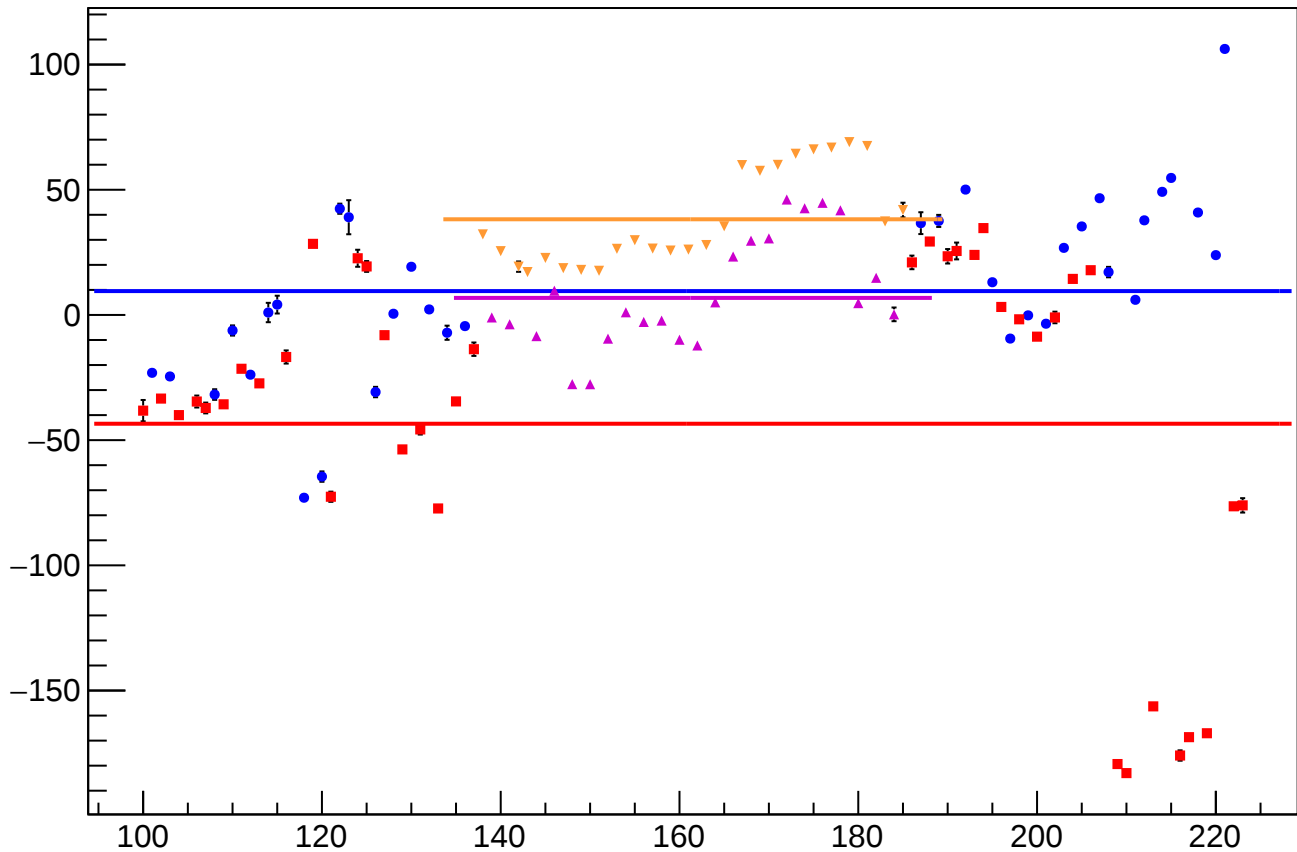
Right: 1288.627 $\pm$ 0.143 χ^2 /NDF: 281417.7/73

In: 1440.019 $\pm$ 0.169 χ^2 /NDF: 2241303.7/57

Out: 1444.082 $\pm$ 0.166 χ^2 /NDF: 2307190.2/63

All: 1442.095 $\pm$ 0.118 χ^2 /NDF: 4548788.4/120

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 9.531 ± 0.326 χ^2/NDF : 12493.9/34

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -43.447 ± 0.318 χ^2/NDF : 43704.3/38

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

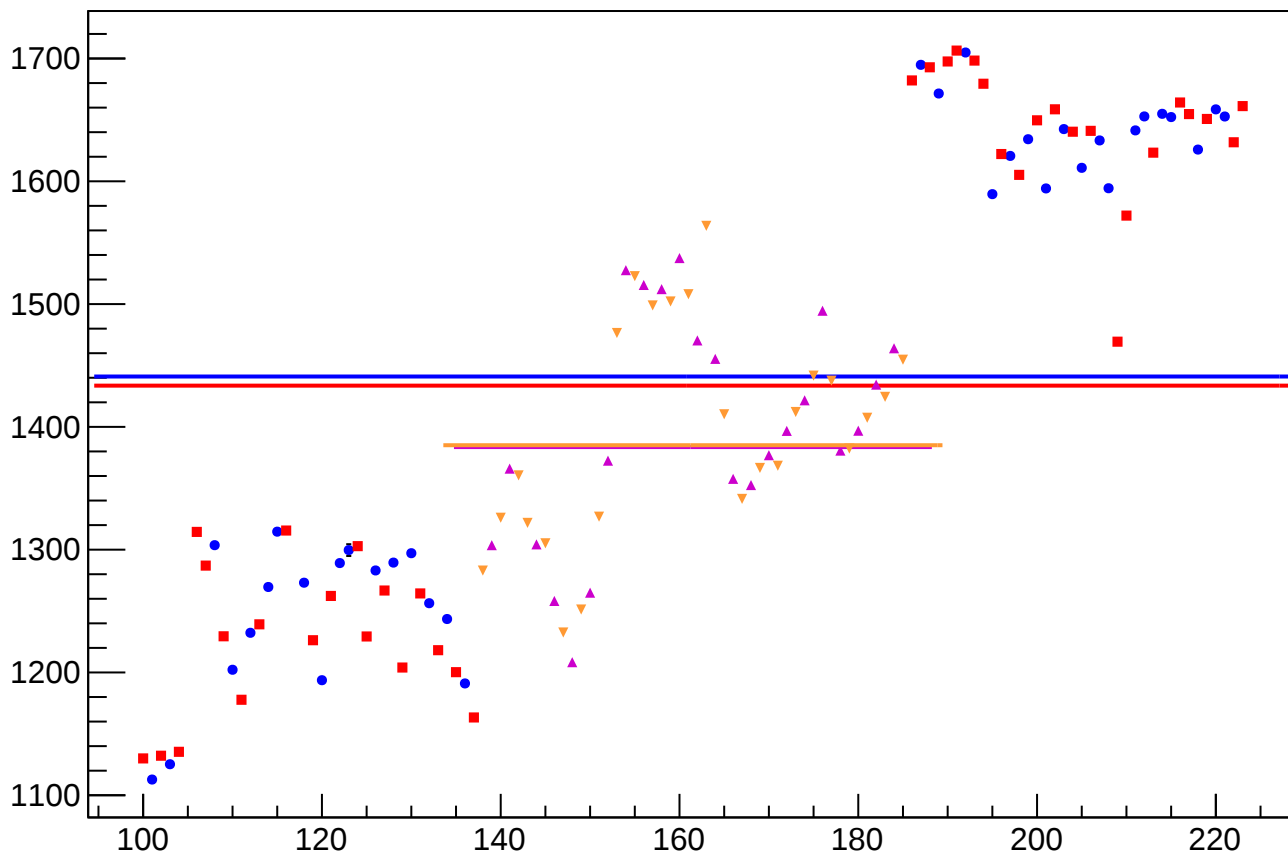
Right: -17.581 ± 0.228 χ^2/NDF : 69718.4/73

In: 8.199 ± 0.233 χ^2/NDF : 17022.6/57

Out: -3.258 ± 0.227 χ^2/NDF : 79595.4/63

All: 2.320 ± 0.163 χ^2/NDF : 97859.5/121

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1441.023 $\pm$ 0.230 χ^2 /NDF: 848227.3/34

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1433.587 $\pm$ 0.225 χ^2 /NDF: 922179.9/38

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

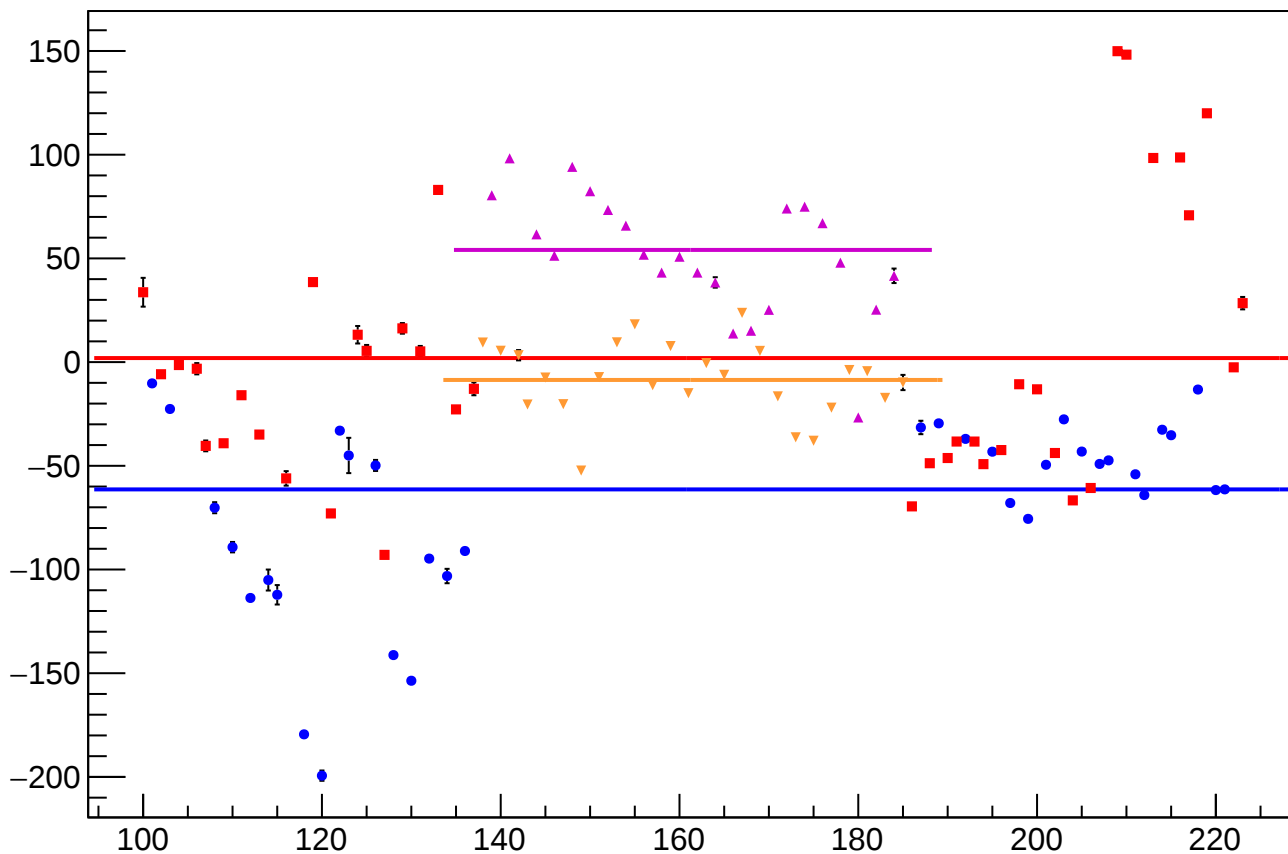
Right: 1437.217 $\pm$ 0.161 χ^2 /NDF: 1770939.9/73

In: 1412.904 $\pm$ 0.165 χ^2 /NDF:1033342.6/57

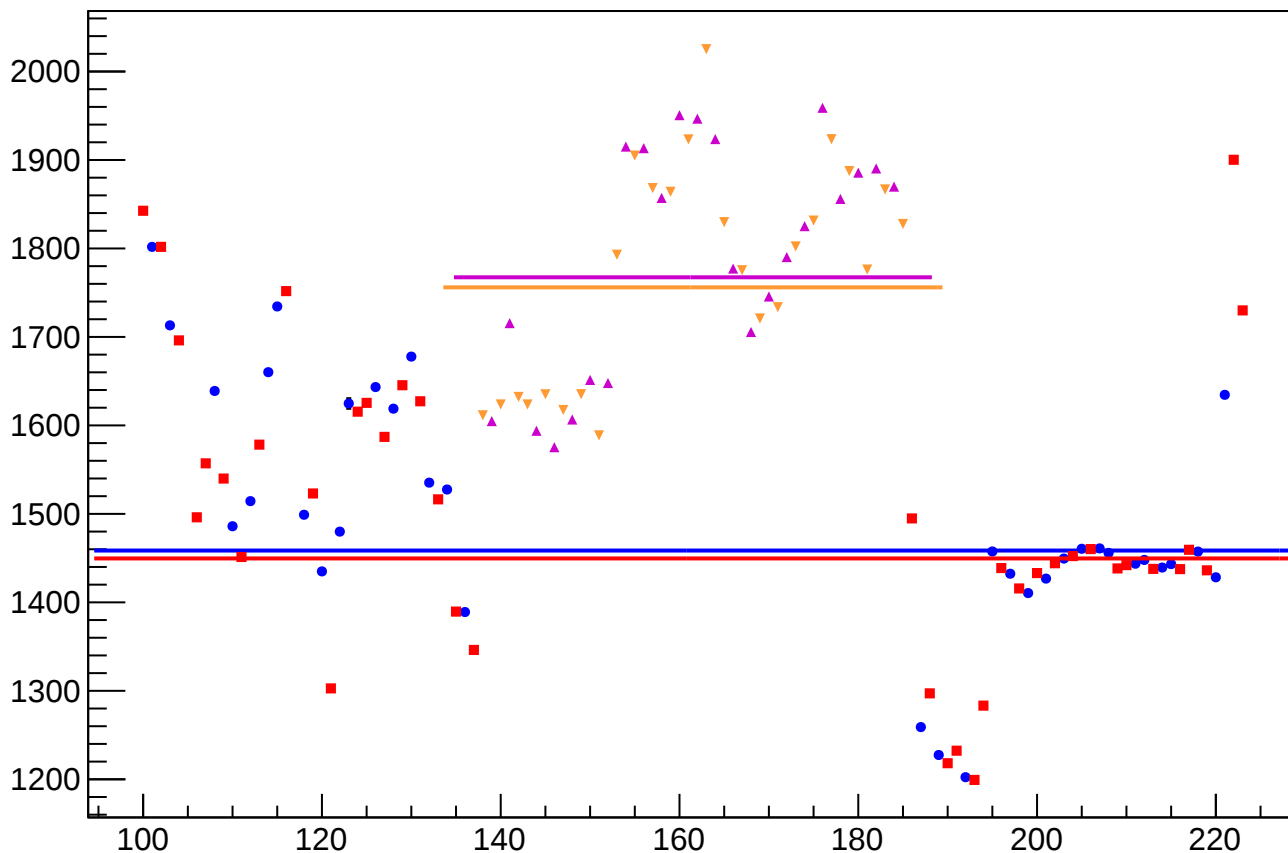
Out: 1409.704 $\pm$ 0.160 χ^2 /NDF:1091049.3/63

All: 1411.262 $\pm$ 0.115 χ^2 /NDF: 2124585.6/120

diff_bpm0i02aX_mean vs Slug, Sign Corrected



diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1458.562 $\pm$ 0.232 χ^2 /NDF: 284845.1/34

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1449.629 $\pm$ 0.226 χ^2 /NDF: 420336.6/38

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

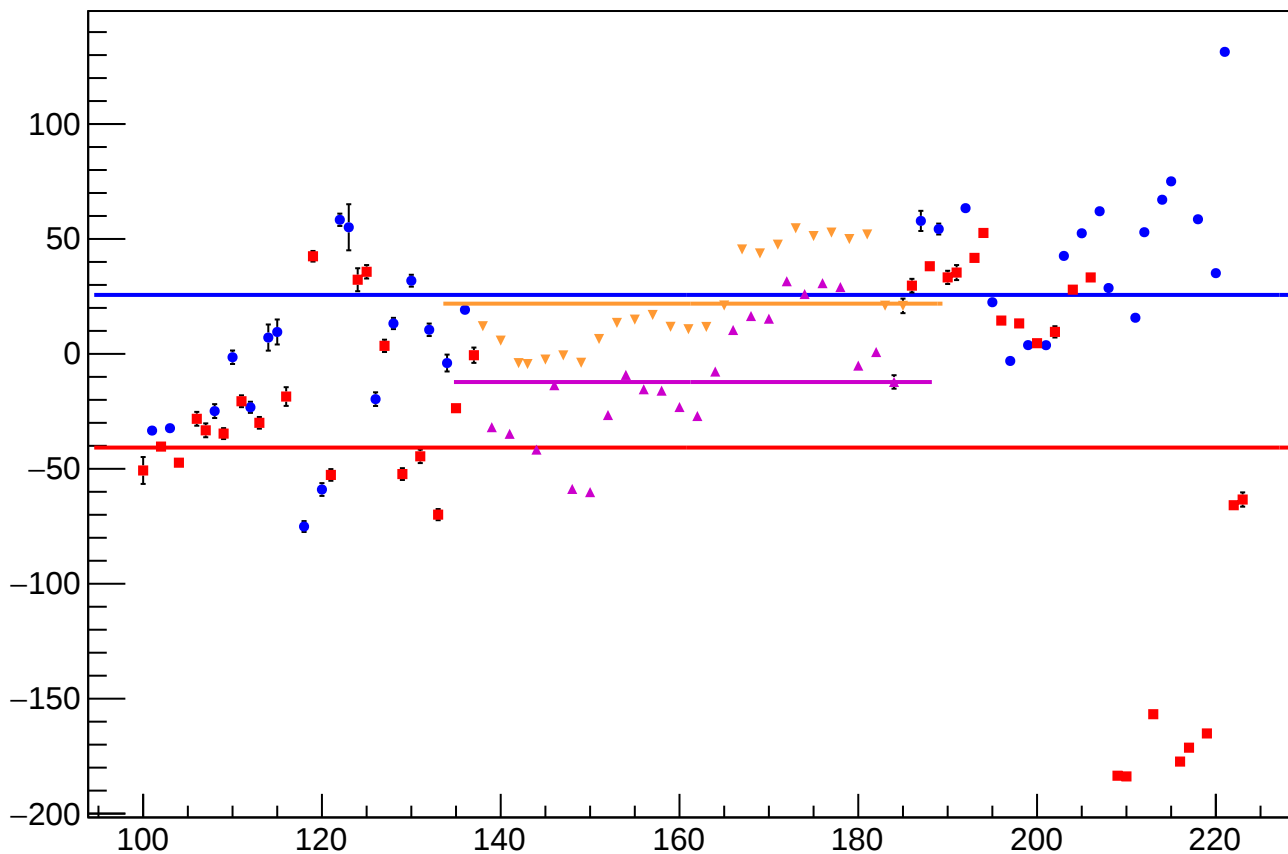
Right: 1453.991 $\pm$ 0.162 χ^2 /NDF: 705942.6/73

In: 1573.445 $\pm$ 0.184 χ^2 /NDF:1134134.7/57

Out: 1565.551 $\pm$ 0.178 χ^2 /NDF:1289760.3/63

All: 1569.386 $\pm$ 0.128 χ^2 /NDF: 2424845.9/12

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 25.658 ± 0.377 $\chi^2/\text{NDF}: 12706.0/34$

Left Out: 21.856 ± 0.335 $\chi^2/\text{NDF}: 4110.5/24$

Right Out: -40.758 ± 0.366 $\chi^2/\text{NDF}: 45655.0/38$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.391 ± 0.241 $\chi^2/\text{NDF}: 15885.7/47$

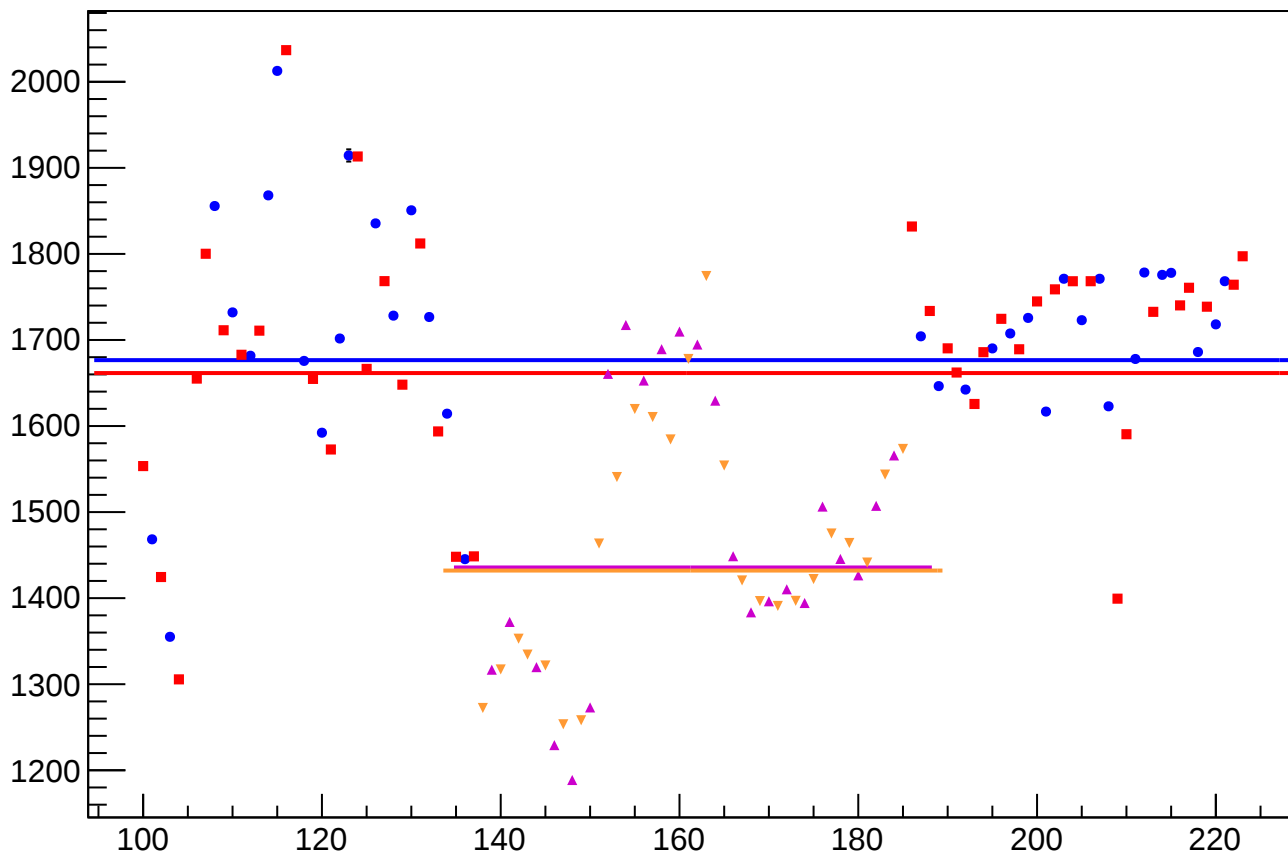
Right: -8.458 ± 0.263 $\chi^2/\text{NDF}: 74342.0/73$

In: 5.164 ± 0.255 $\chi^2/\text{NDF}: 24966.3/57$

Out: -6.685 ± 0.247 $\chi^2/\text{NDF}: 65658.9/63$

All: -0.945 ± 0.178 $\chi^2/\text{NDF}: 91736.7/121$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1676.575 $\pm$ 0.266 χ^2/NDF : 205355.0/34

Left Out: 1432.060 $\pm$ 0.237 χ^2/NDF : 297360.3/24

Right Out: 1661.555 $\pm$ 0.259 χ^2/NDF : 282362.3/38

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

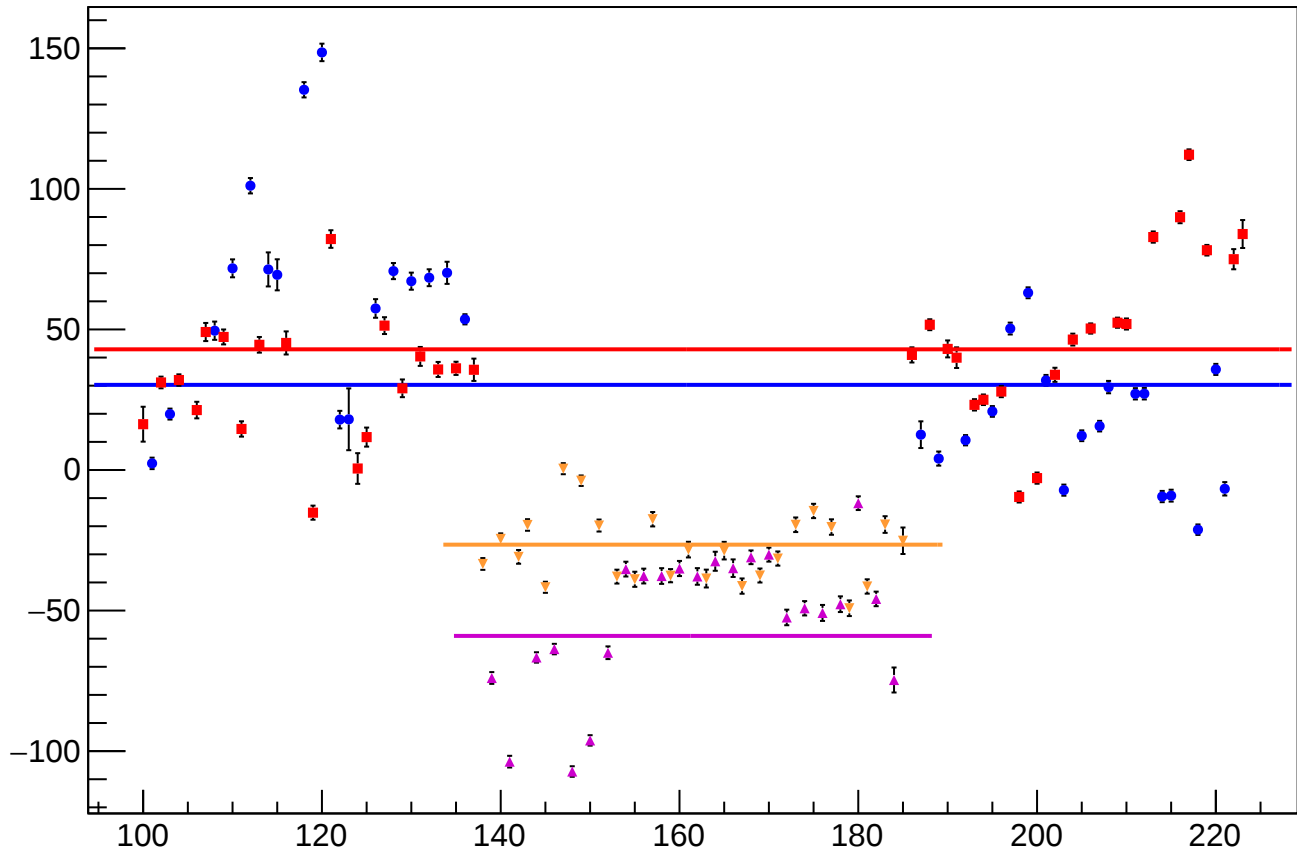
Right: 1668.860 $\pm$ 0.186 χ^2/NDF : 489351.8/73

In: 1546.307 $\pm$ 0.180 χ^2/NDF : 1068908.4/57

Out: 1536.668 $\pm$ 0.175 χ^2/NDF : 1006751.5/63

All: 1541.338 $\pm$ 0.126 χ^2/NDF : 2077131.1/12

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 30.286+/-0.400 χ^2/NDF : 7878.7/34

Left Out: -26.554+/-0.488 χ^2/NDF : 717.5/24

Right Out: 42.927+/-0.392 χ^2/NDF : 5435.8/38

Left In: -59.014+/-0.506 χ^2/NDF : 2783.8/22

Left: -42.178+/-0.351 χ^2/NDF : 5632.2/47

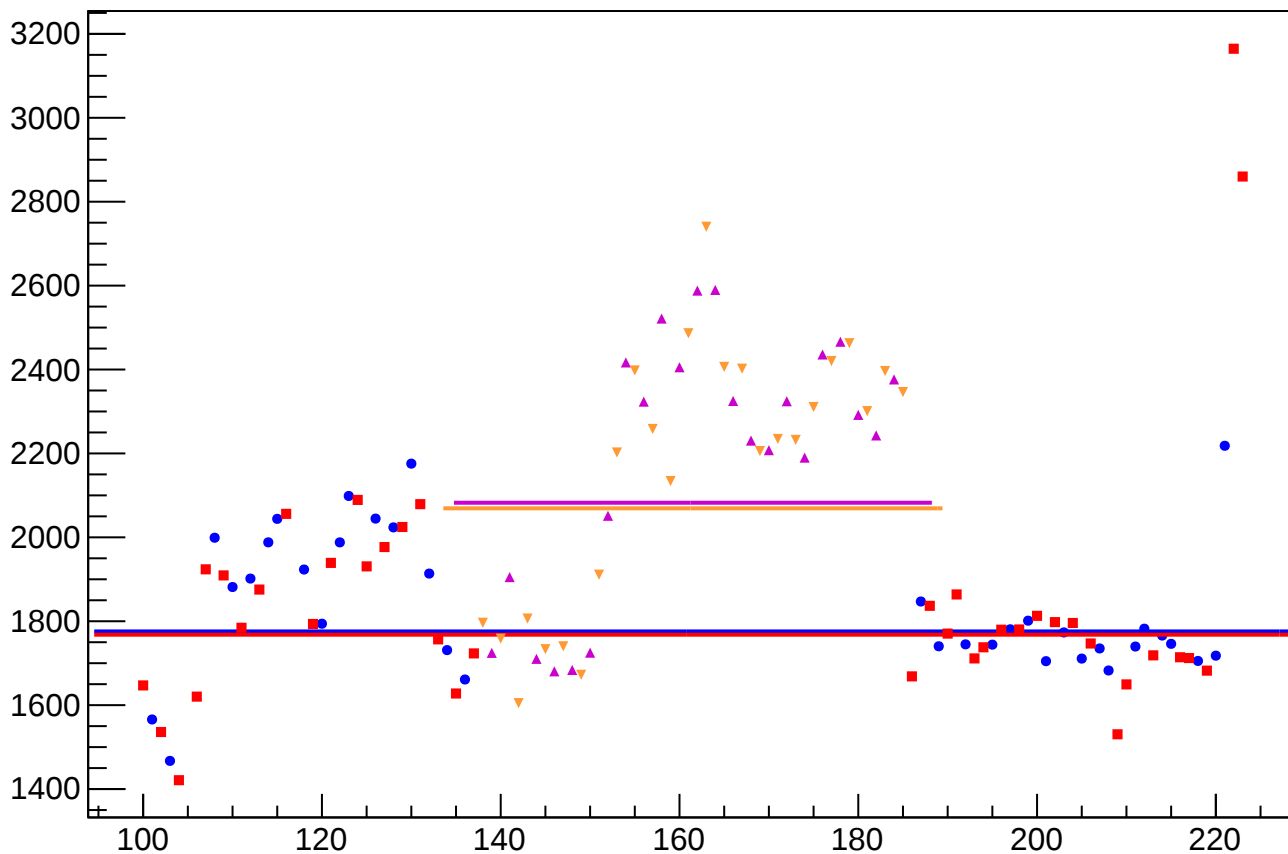
Right: 36.734+/-0.280 χ^2/NDF : 13824.6/73

In: -3.994+/-0.314 χ^2/NDF : 29820.5/57

Out: 15.688+/-0.305 χ^2/NDF : 18484.9/63

All: 6.111+/-0.219 χ^2/NDF : 50325.4/121

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1775.708 ± 0.283 $\chi^2/\text{NDF}: 272739.9/34$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1767.984 ± 0.277 $\chi^2/\text{NDF}: 638521.4/38$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

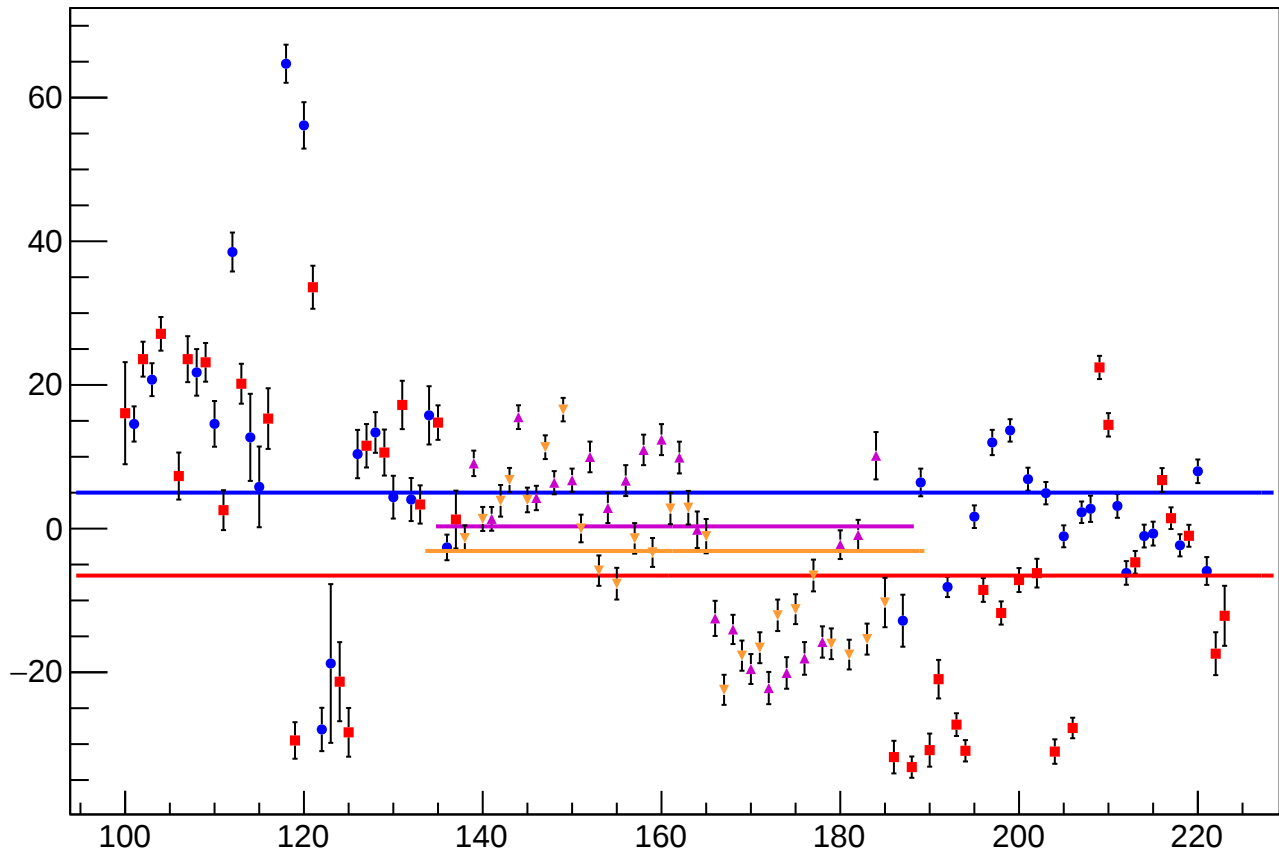
Right: 1771.768 ± 0.198 $\chi^2/\text{NDF}: 911642.2/73$

In: 1893.477 ± 0.222 $\chi^2/\text{NDF}: 1510268.0/57$

Out: 1886.050 ± 0.216 $\chi^2/\text{NDF}: 1900916.7/63$

All: 1889.664 ± 0.155 $\chi^2/\text{NDF}: 3411760.0/12$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 5.011 ± 0.344 $\chi^2/\text{NDF}: 1486.3/34$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -6.539 ± 0.340 $\chi^2/\text{NDF}: 3325.2/38$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

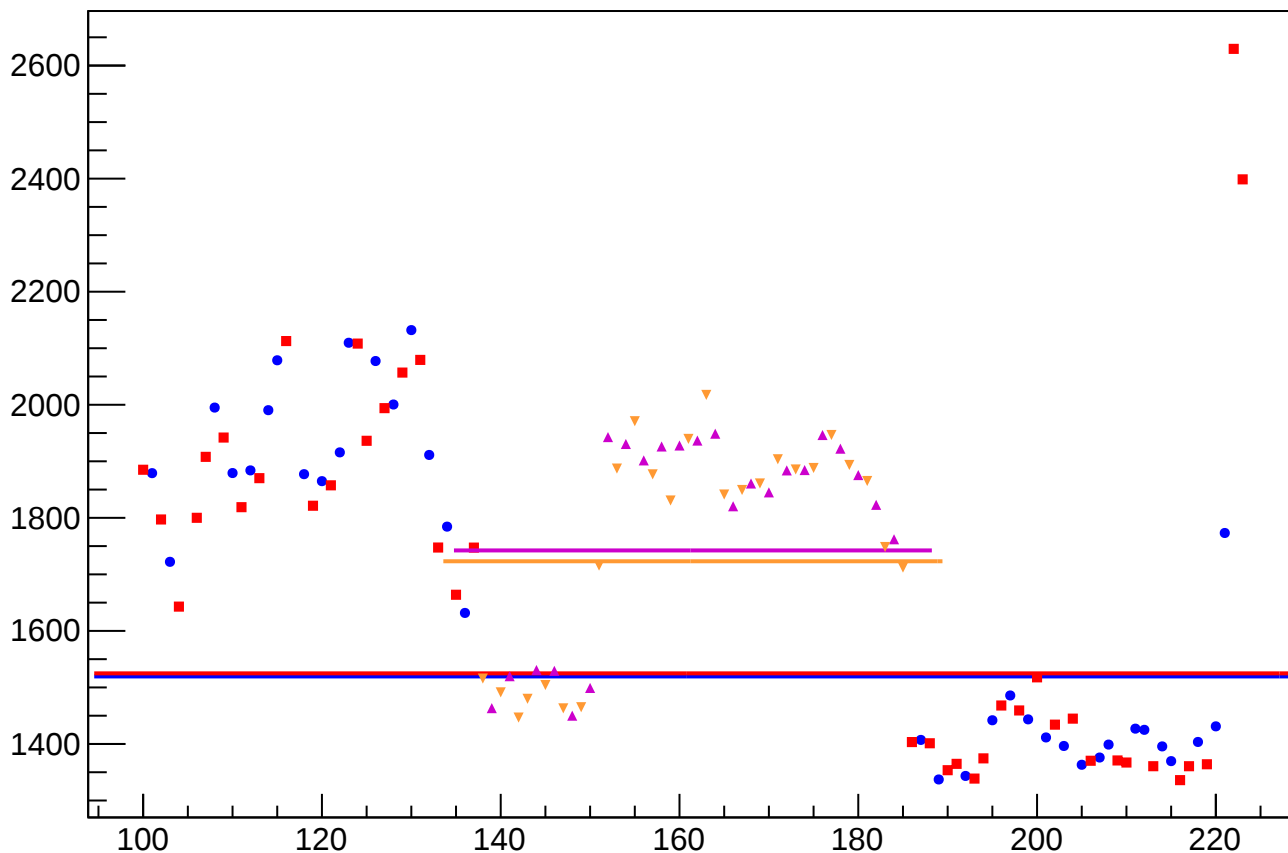
Right: -0.838 ± 0.242 $\chi^2/\text{NDF}: 5381.1/73$

In: 3.128 ± 0.267 $\chi^2/\text{NDF}: 2297.4/57$

Out: -5.119 ± 0.260 $\chi^2/\text{NDF}: 4011.0/63$

All: -1.096 ± 0.186 $\chi^2/\text{NDF}: 6798.5/121$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1519.469 $\pm$ 0.244 χ^2 /NDF: 766326.4/34

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF: 477441.1/24

Right Out: 1524.905 $\pm$ 0.240 χ^2 /NDF: 1121338.6/38

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

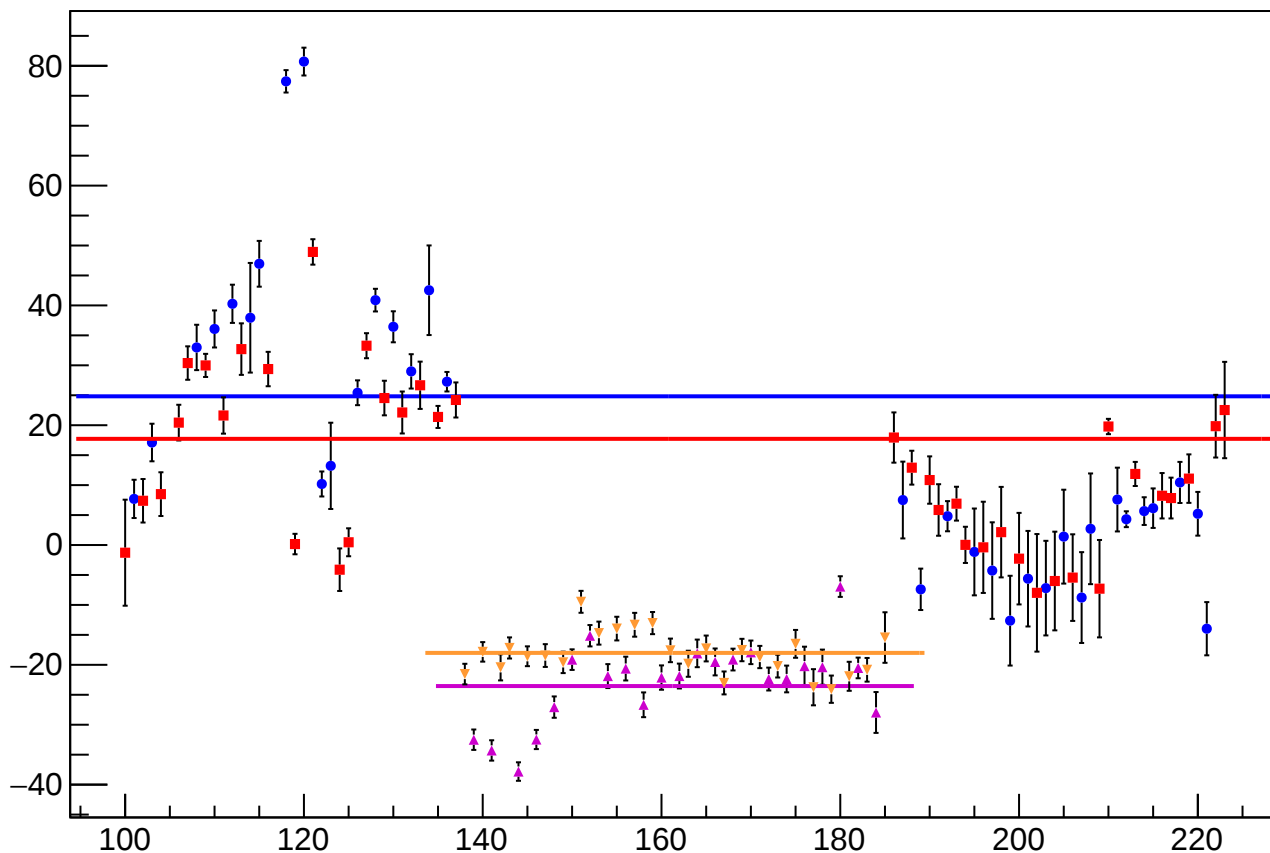
Right: 1522.222 $\pm$ 0.171 χ^2 /NDF: 1887917.4/73

In: 1608.805 $\pm$ 0.189 χ^2 /NDF: 1537923.3/57

Out: 1607.046 $\pm$ 0.184 χ^2 /NDF: 1880558.9/63

All: 1607.904 $\pm$ 0.132 χ^2 /NDF: 3418526.8/12

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 24.825 ± 0.504 χ^2/NDF : 2383.7/34

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 17.726 ± 0.473 χ^2/NDF : 745.3/38

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

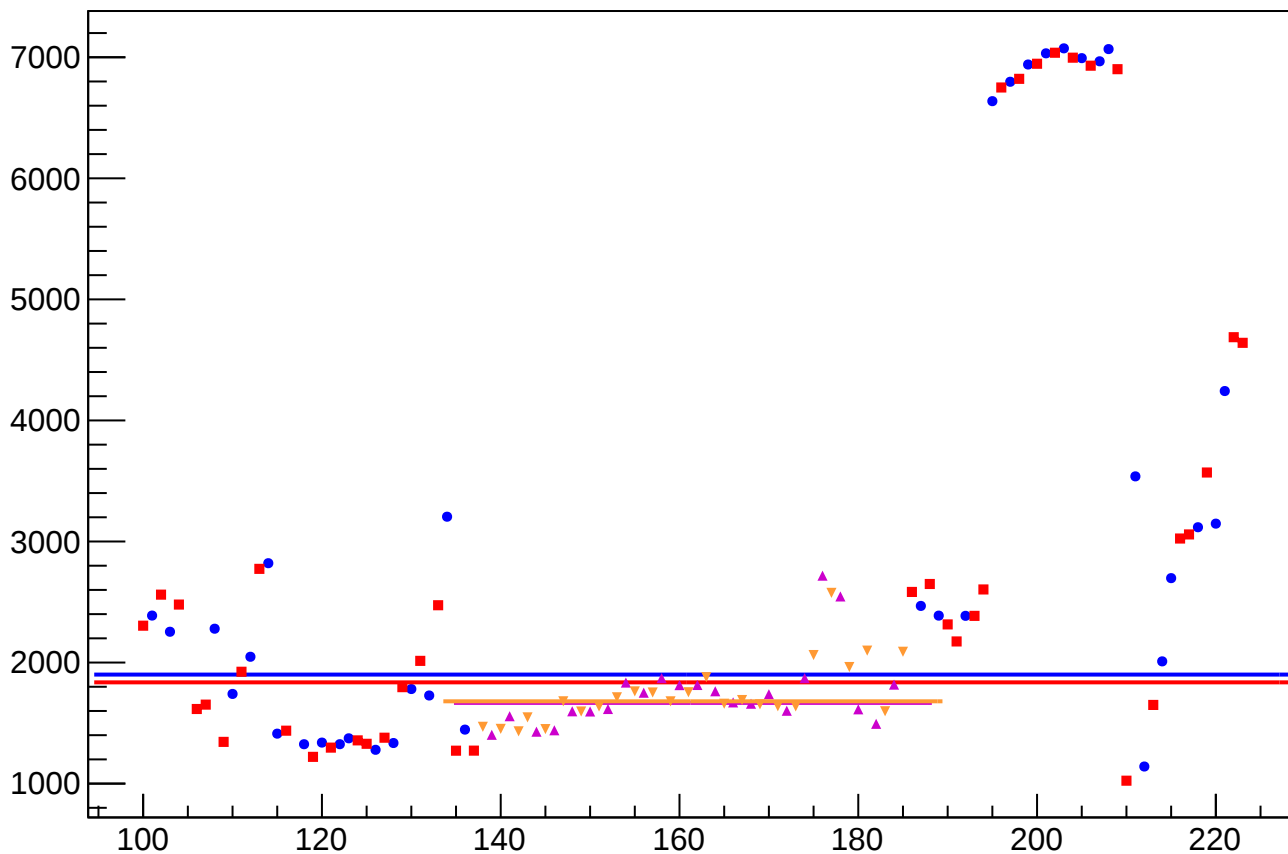
Right: 21.055 ± 0.345 χ^2/NDF : 3234.5/73

In: -4.512 ± 0.316 χ^2/NDF : 8324.6/57

Out: -3.260 ± 0.304 χ^2/NDF : 4167.8/63

All: -3.862 ± 0.219 χ^2/NDF : 12500.6/121

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1900.611 ± 0.356 $\chi^2/\text{NDF}: 9897127.5/34$

Left Out: 1679.814 ± 0.281 $\chi^2/\text{NDF}: 522795.6/24$

Right Out: 1836.373 ± 0.335 $\chi^2/\text{NDF}: 10038840.6/38$

Left In: 1666.819 ± 0.287 $\chi^2/\text{NDF}: 650990.8/22$

Left: 1673.462 ± 0.201 $\chi^2/\text{NDF}: 1174835.7/47$

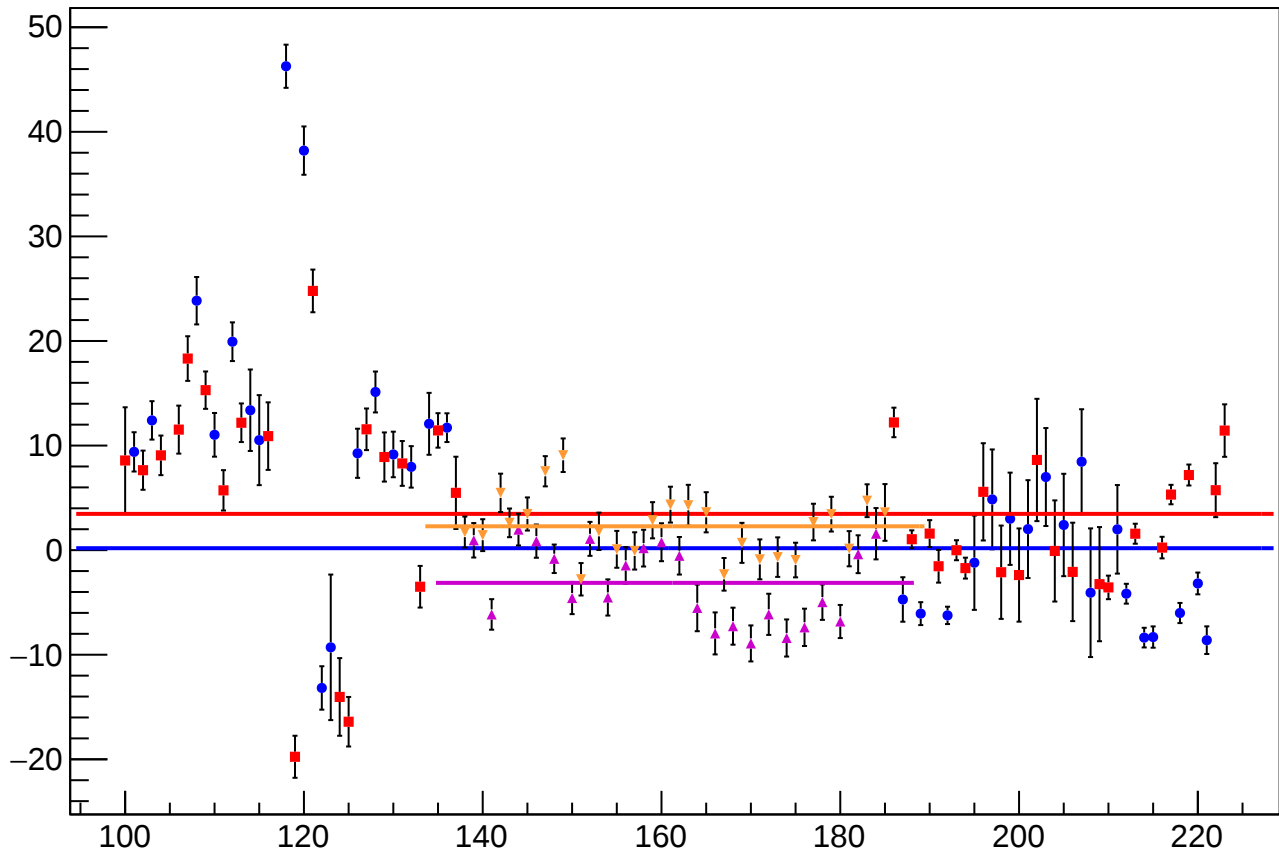
Right: 1866.494 ± 0.244 $\chi^2/\text{NDF}: 19953248.5/73$

In: 1758.810 ± 0.223 $\chi^2/\text{NDF}: 10809510.1/57$

Out: 1744.424 ± 0.215 $\chi^2/\text{NDF}: 10690194.4/63$

All: 1751.341 ± 0.155 $\chi^2/\text{NDF}: 21501857.9/120$

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.186 ± 0.285 $\chi^2/\text{NDF}: 1714.6/34$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.468 ± 0.261 $\chi^2/\text{NDF}: 734.3/38$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

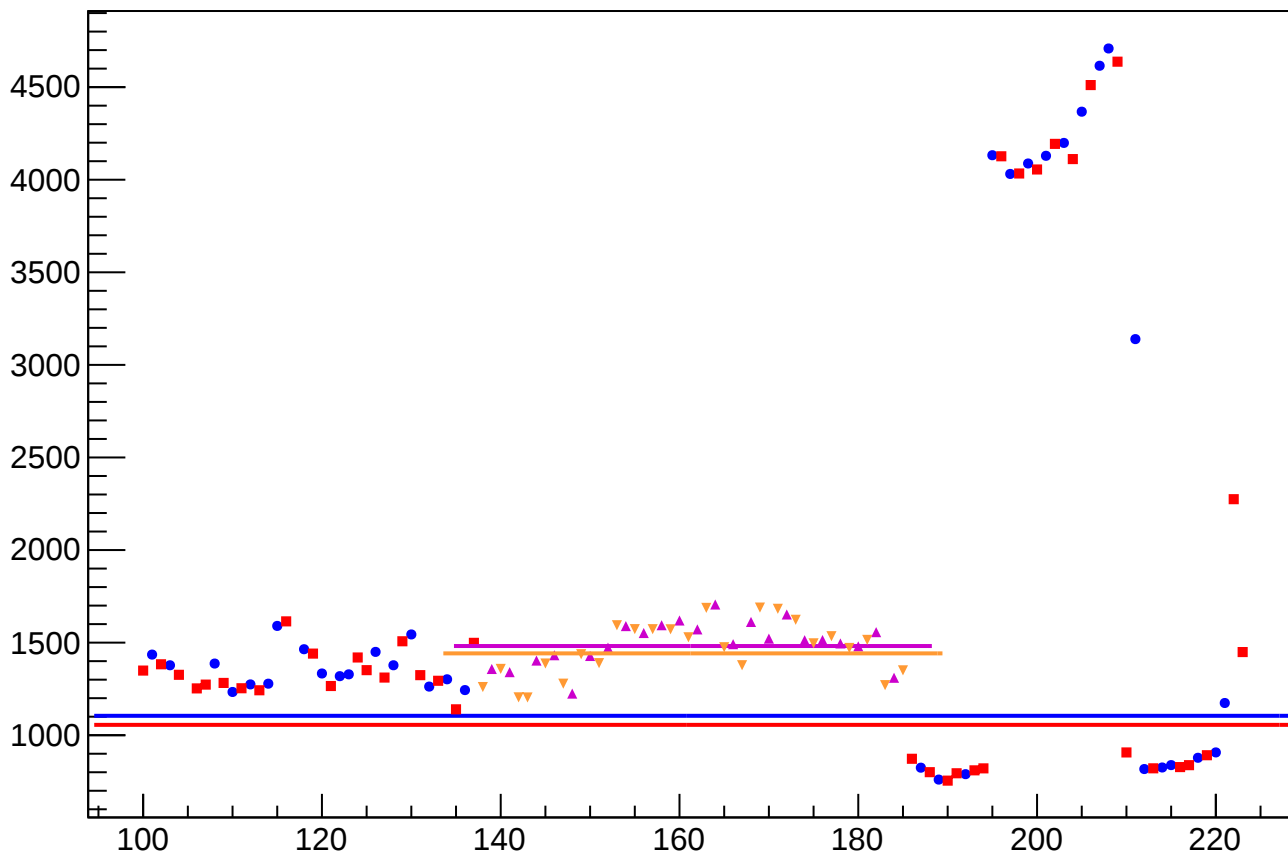
Right: 1.969 ± 0.193 $\chi^2/\text{NDF}: 2521.0/73$

In: -1.101 ± 0.223 $\chi^2/\text{NDF}: 1870.6/57$

Out: 3.024 ± 0.207 $\chi^2/\text{NDF}: 817.6/63$

All: 1.116 ± 0.152 $\chi^2/\text{NDF}: 2872.3/121$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1104.835 ± 0.201 $\chi^2/\text{NDF}: 8994507.7/34$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1055.920 ± 0.185 $\chi^2/\text{NDF}: 8143268.7/38$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

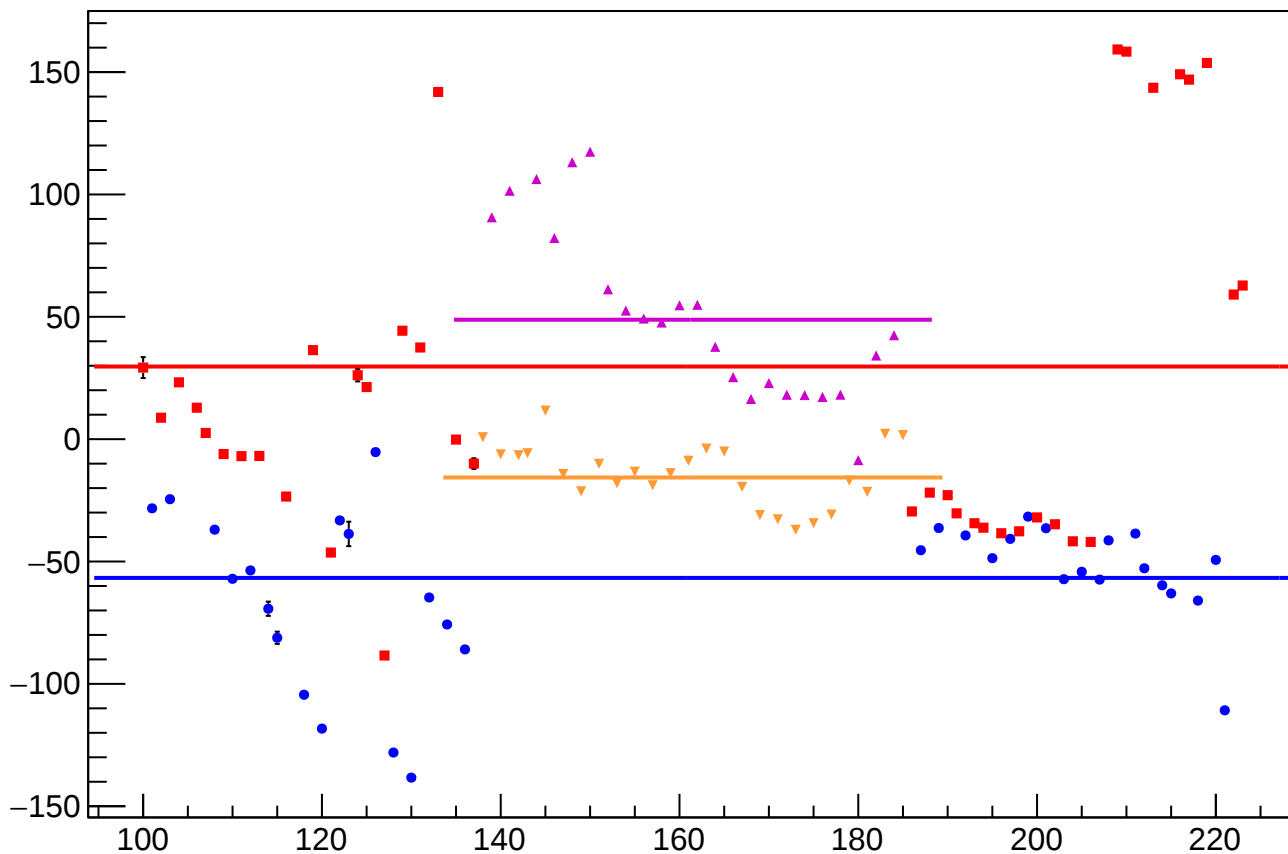
Right: 1078.264 ± 0.136 $\chi^2/\text{NDF}: 17169801.5/73$

In: 1251.146 ± 0.158 $\chi^2/\text{NDF}: 10561570.5/57$

Out: 1200.167 ± 0.146 $\chi^2/\text{NDF}: 10145512.6/63$

All: 1223.751 ± 0.107 $\chi^2/\text{NDF}: 20763332.0/100$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -56.695 ± 0.158 χ^2/NDF : 25048.3/34

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: 29.675 ± 0.156 χ^2/NDF : 267585.7/38

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

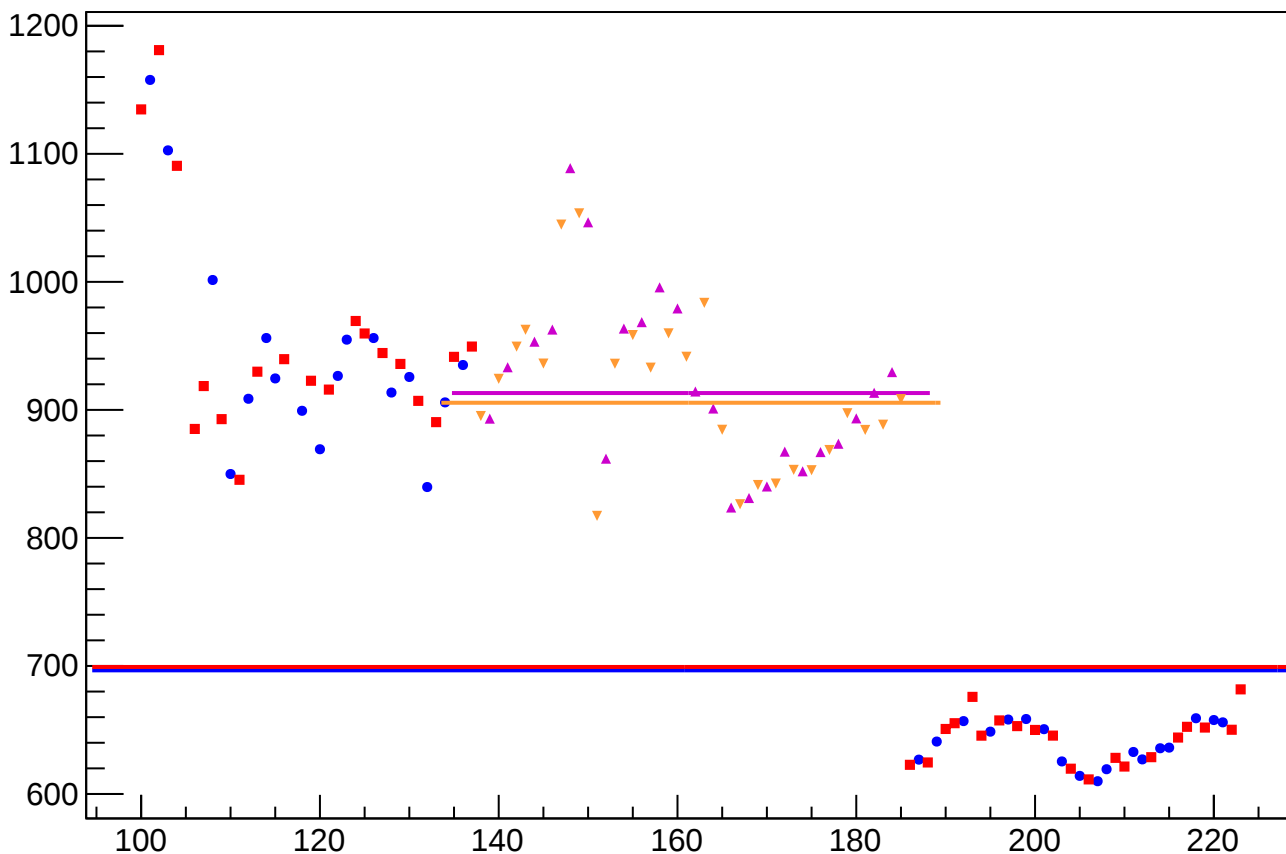
Right: -12.861 ± 0.111 χ^2/NDF : 443801.7/73

In: -20.690 ± 0.128 χ^2/NDF : 201991.3/57

Out: 13.715 ± 0.125 χ^2/NDF : 300880.3/63

All: -3.088 ± 0.090 χ^2/NDF : 539579.3/121

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 696.567 ± 0.112 χ^2/NDF : 1204483.8/34

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 699.209 ± 0.110 χ^2/NDF : 1260349.9/38

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

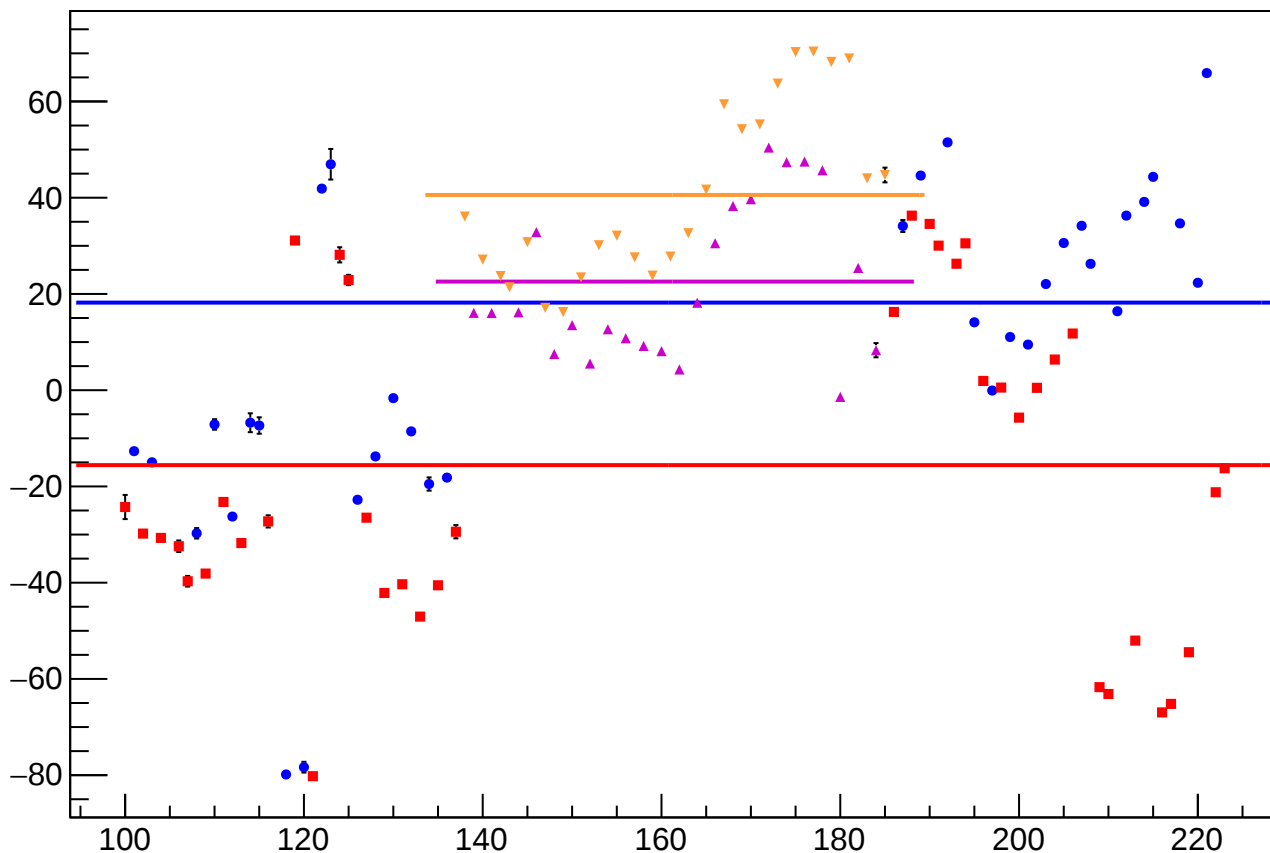
Right: 697.908 ± 0.079 χ^2/NDF : 2465116.6/73

In: 770.482 ± 0.091 χ^2/NDF : 2657448.2/57

Out: 771.853 ± 0.089 χ^2/NDF : 2656122.0/63

All: 771.183 ± 0.063 χ^2/NDF : 5313686.8/123

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 18.204 $\pm$ 0.119 χ^2/NDF : 58351.0/34

Left Out: 40.573 $\pm$ 0.168 χ^2/NDF : 12079.0/24

Right Out: -15.573 $\pm$ 0.116 χ^2/NDF : 90059.1/38

Left In: 22.565 $\pm$ 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2/NDF : 25752.7/47

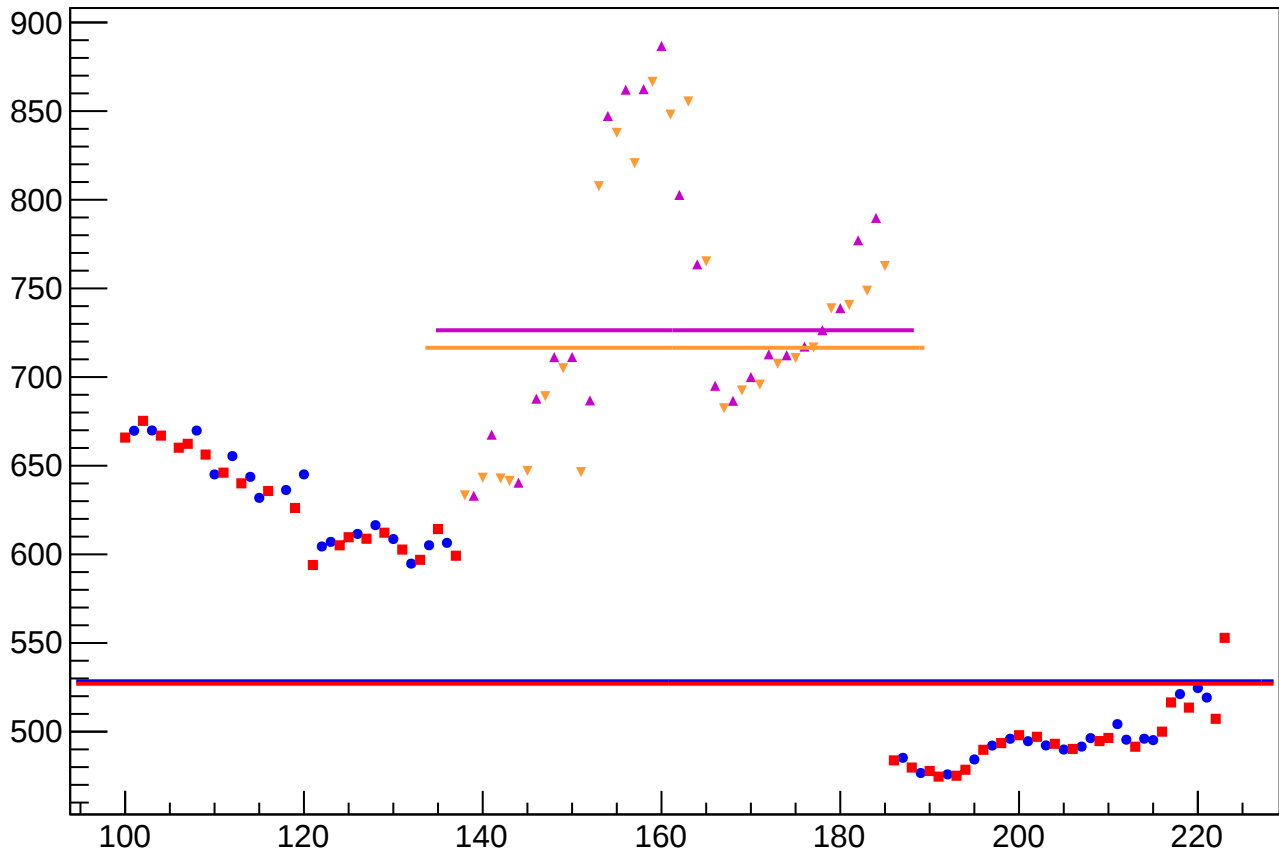
Right: 0.957 $\pm$ 0.083 χ^2/NDF : 189576.2/73

In: 19.579 $\pm$ 0.098 χ^2/NDF : 66942.6/57

Out: 2.674 $\pm$ 0.096 χ^2/NDF : 177674.3/63

All: 10.887 $\pm$ 0.069 χ^2/NDF : 259783.3/121

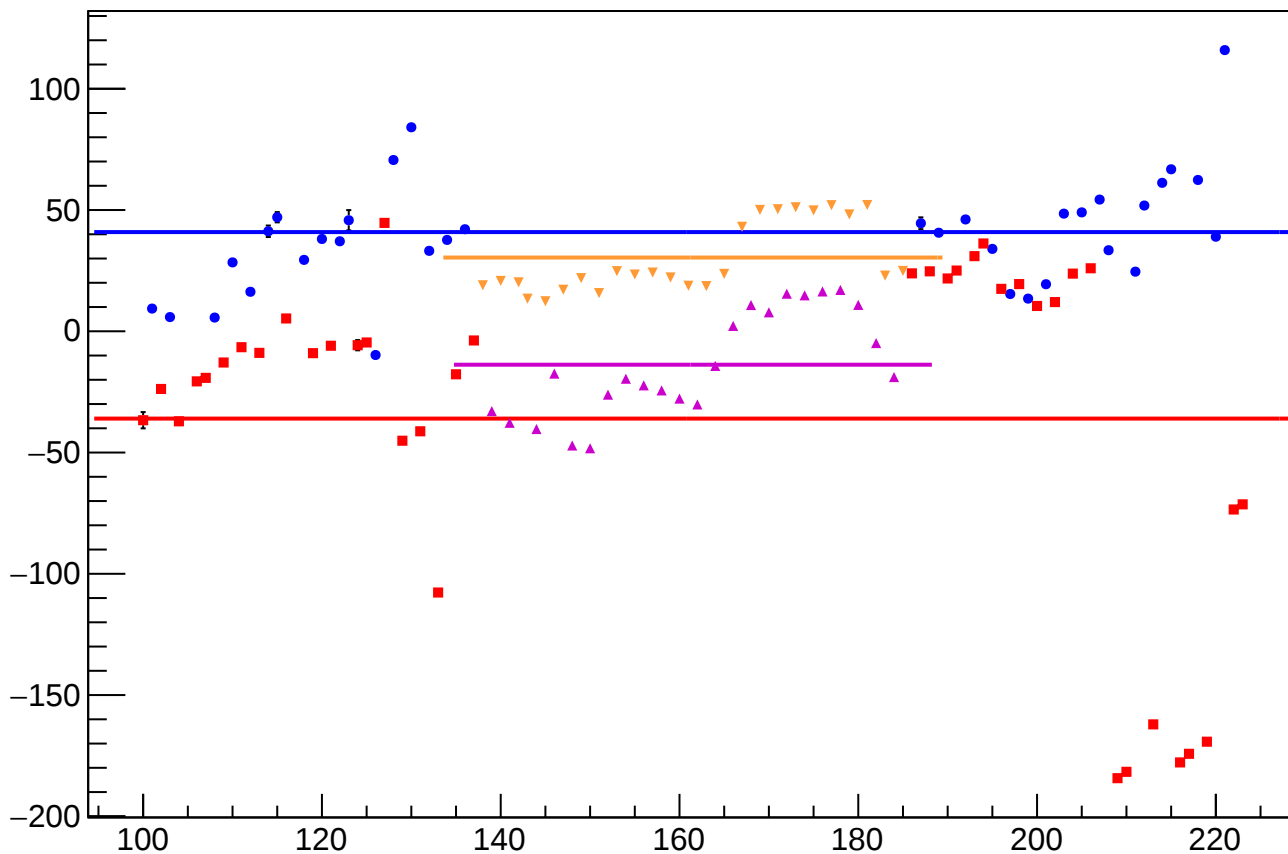
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 528.408 $\pm$ 0.084 χ^2 /NDF: 500308.8/34
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 527.039 $\pm$ 0.082 χ^2 /NDF: 546057.7/38
 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: 527.709 $\pm$ 0.059 χ^2 /NDF: 1046501.8/73
 In: 590.839 $\pm$ 0.070 χ^2 /NDF:2537068.5/57
 Out: 588.616 $\pm$ 0.068 χ^2 /NDF:2609343.7/63
 All: 589.696 $\pm$ 0.049 χ^2 /NDF: 5146936.6/123

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 40.904+/-0.197 χ^2/NDF : 16286.6/34

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -35.998+/-0.193 χ^2/NDF : 142019.9/38

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

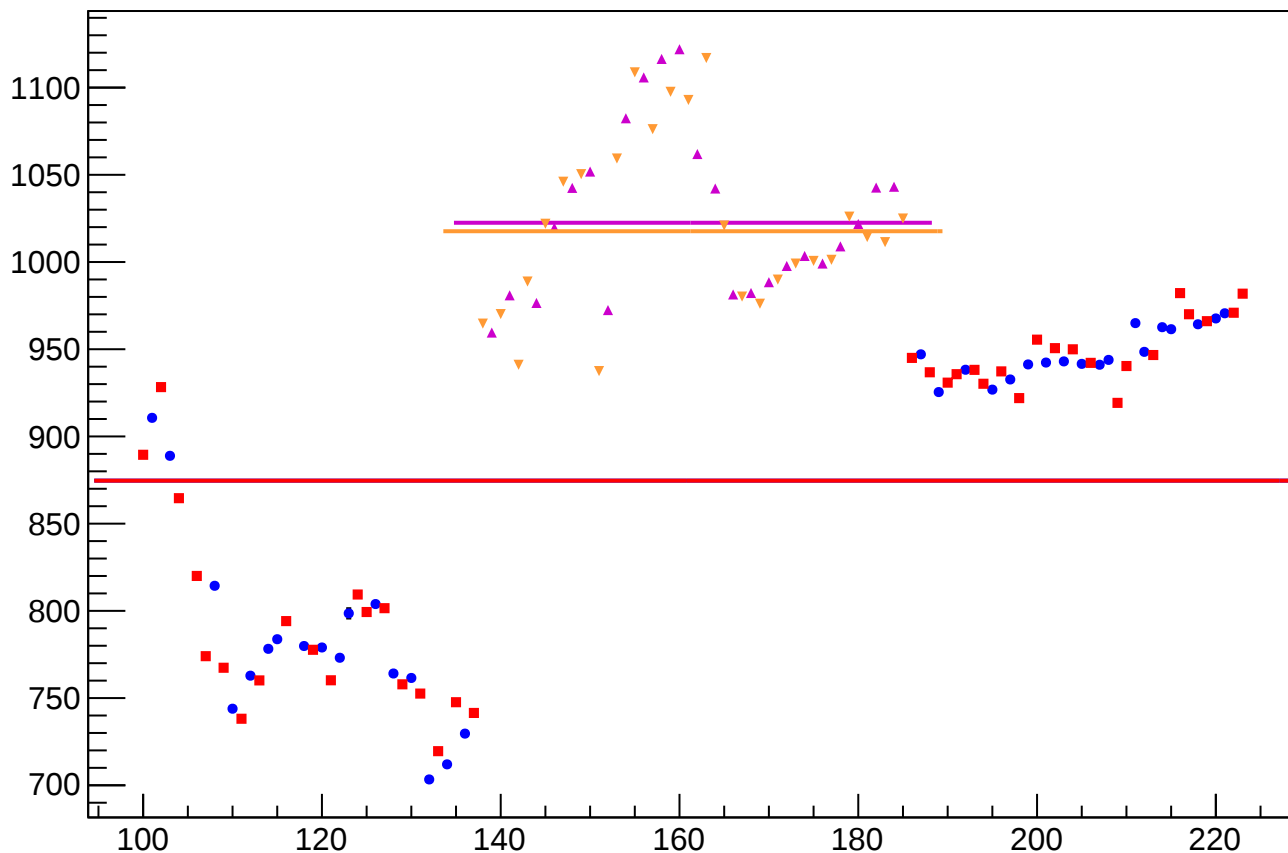
Right: 1.708+/-0.138 χ^2/NDF : 236142.0/73

In: 19.544+/-0.154 χ^2/NDF : 54430.9/57

Out: -9.571+/-0.150 χ^2/NDF : 192935.6/63

All: 4.615+/-0.107 χ^2/NDF : 265783.2/121

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 874.666 $\pm$ 0.139 χ^2 /NDF: 444247.8/34

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 874.646 $\pm$ 0.136 χ^2 /NDF: 428468.9/38

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

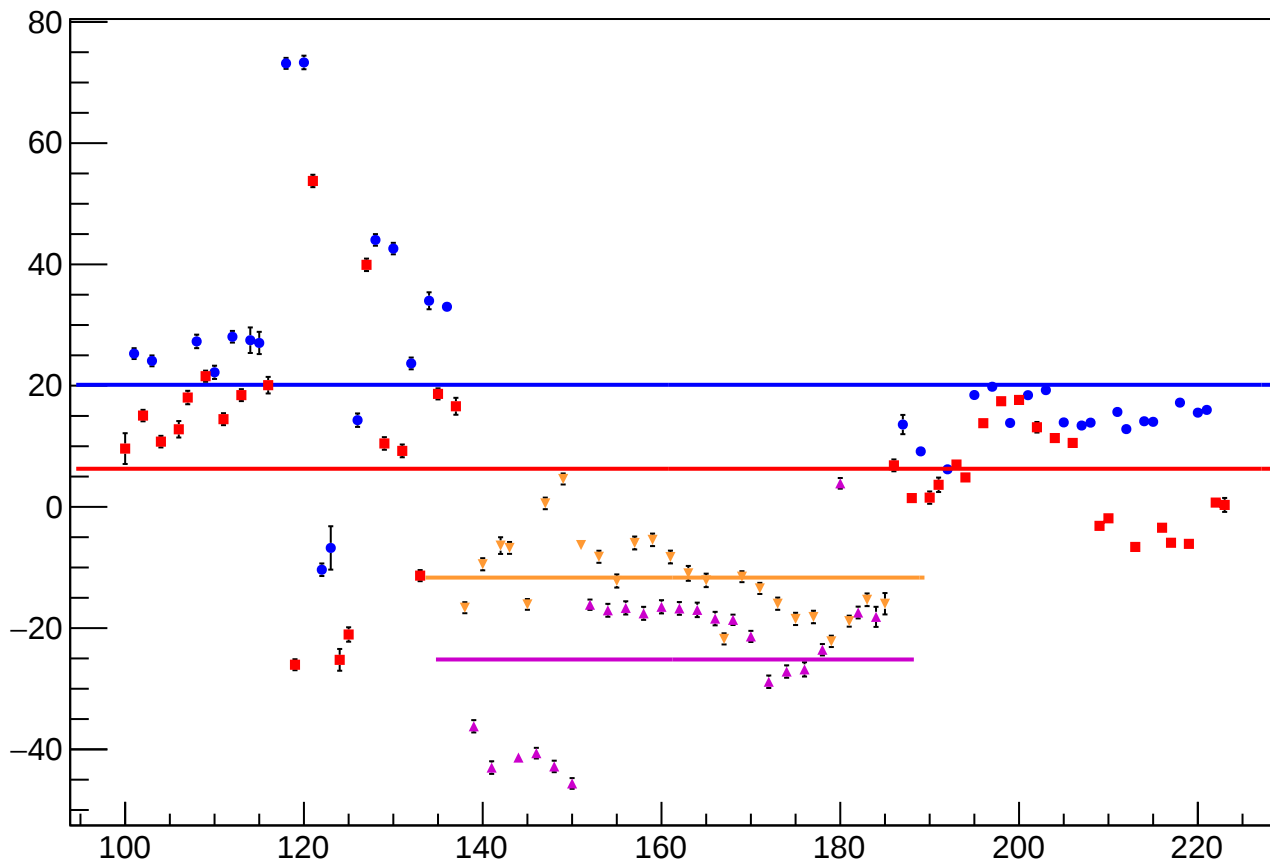
Right: 874.656 $\pm$ 0.097 χ^2 /NDF: 872716.7/73

In: 932.407 $\pm$ 0.109 χ^2 /NDF: 954763.0/57

Out: 931.557 $\pm$ 0.106 χ^2 /NDF: 949013.0/63

All: 931.971 $\pm$ 0.076 χ^2 /NDF: 1903807.5/121

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.137 ± 0.138 $\chi^2/\text{NDF}: 9935.0/34$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 6.289 ± 0.135 $\chi^2/\text{NDF}: 9444.5/38$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

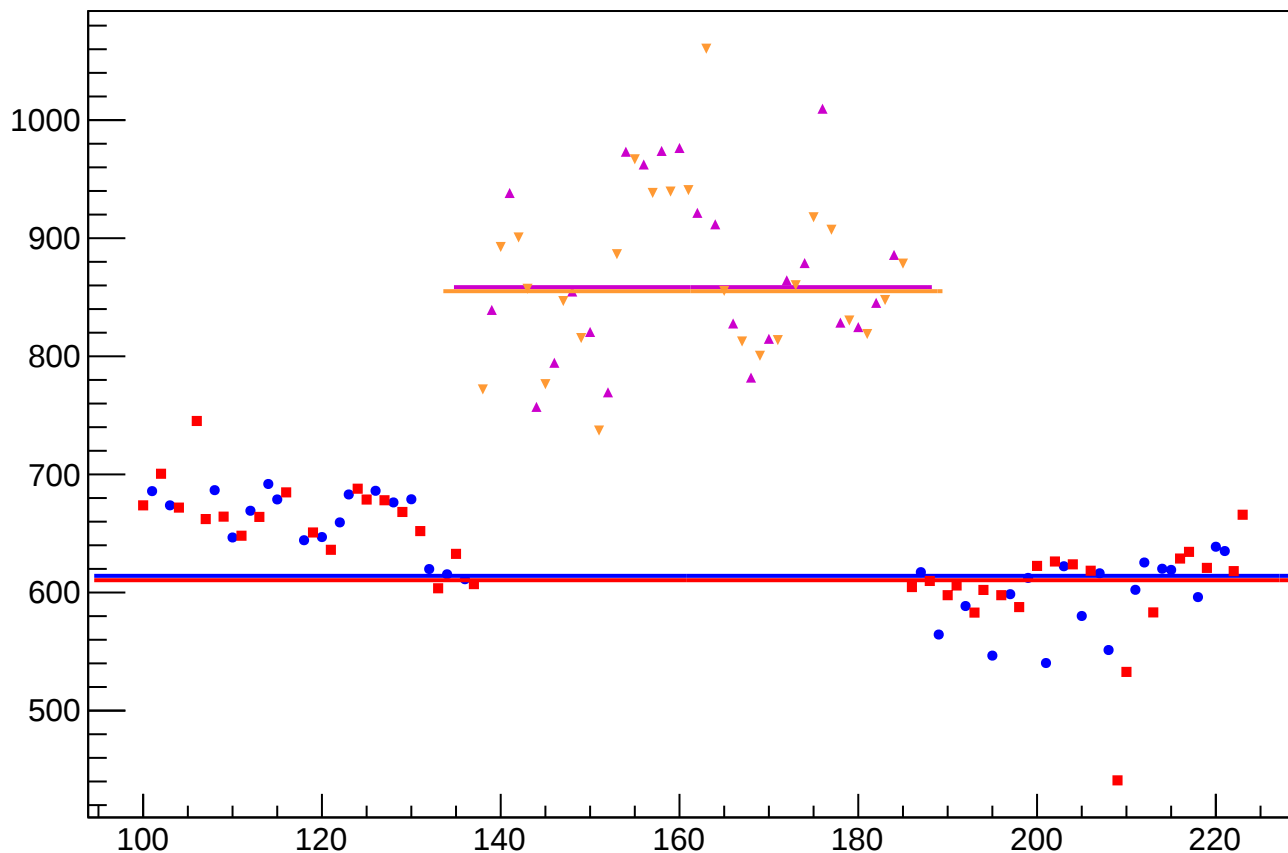
Right: 13.047 ± 0.096 $\chi^2/\text{NDF}: 24530.0/73$

In: 6.221 ± 0.115 $\chi^2/\text{NDF}: 46760.9/57$

Out: 0.692 ± 0.112 $\chi^2/\text{NDF}: 16121.9/63$

All: 3.381 ± 0.080 $\chi^2/\text{NDF}: 64071.6/121$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 614.127 ± 0.098 $\chi^2/\text{NDF}: 171223.7/34$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 610.420 ± 0.095 $\chi^2/\text{NDF}: 371875.6/38$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

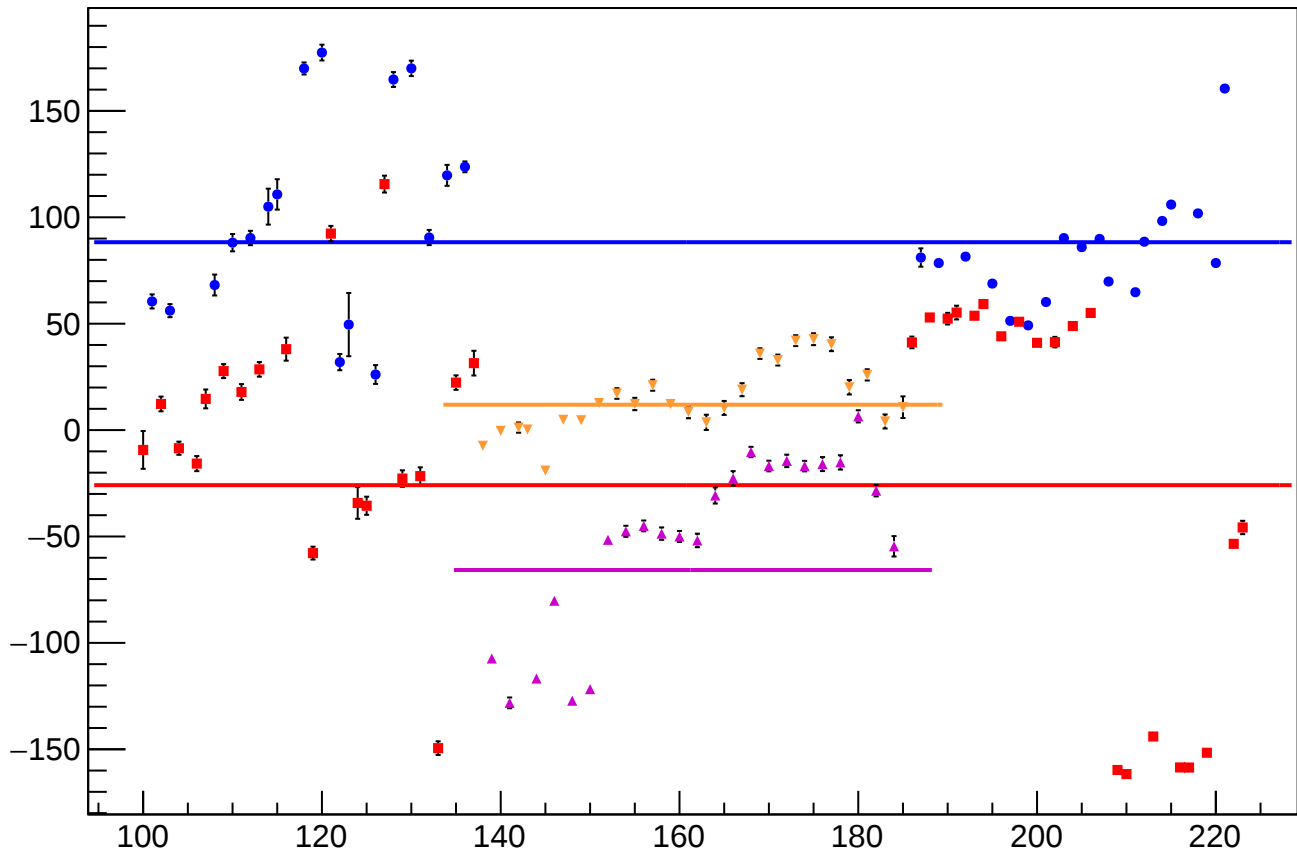
Right: 612.229 ± 0.068 $\chi^2/\text{NDF}: 543837.7/73$

In: 689.199 ± 0.081 $\chi^2/\text{NDF}: 2335587.2/57$

Out: 686.711 ± 0.079 $\chi^2/\text{NDF}: 2660512.2/63$

All: 687.921 ± 0.057 $\chi^2/\text{NDF}: 4996580.8/121$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 88.293 ± 0.411 χ^2/NDF : 6438.5/34

Left Out: 11.938 ± 0.505 χ^2/NDF : 976.6/24

Right Out: -25.884 ± 0.398 χ^2/NDF : 53311.1/38

Left In: -65.752 ± 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 ± 0.362 χ^2/NDF : 19845.5/47

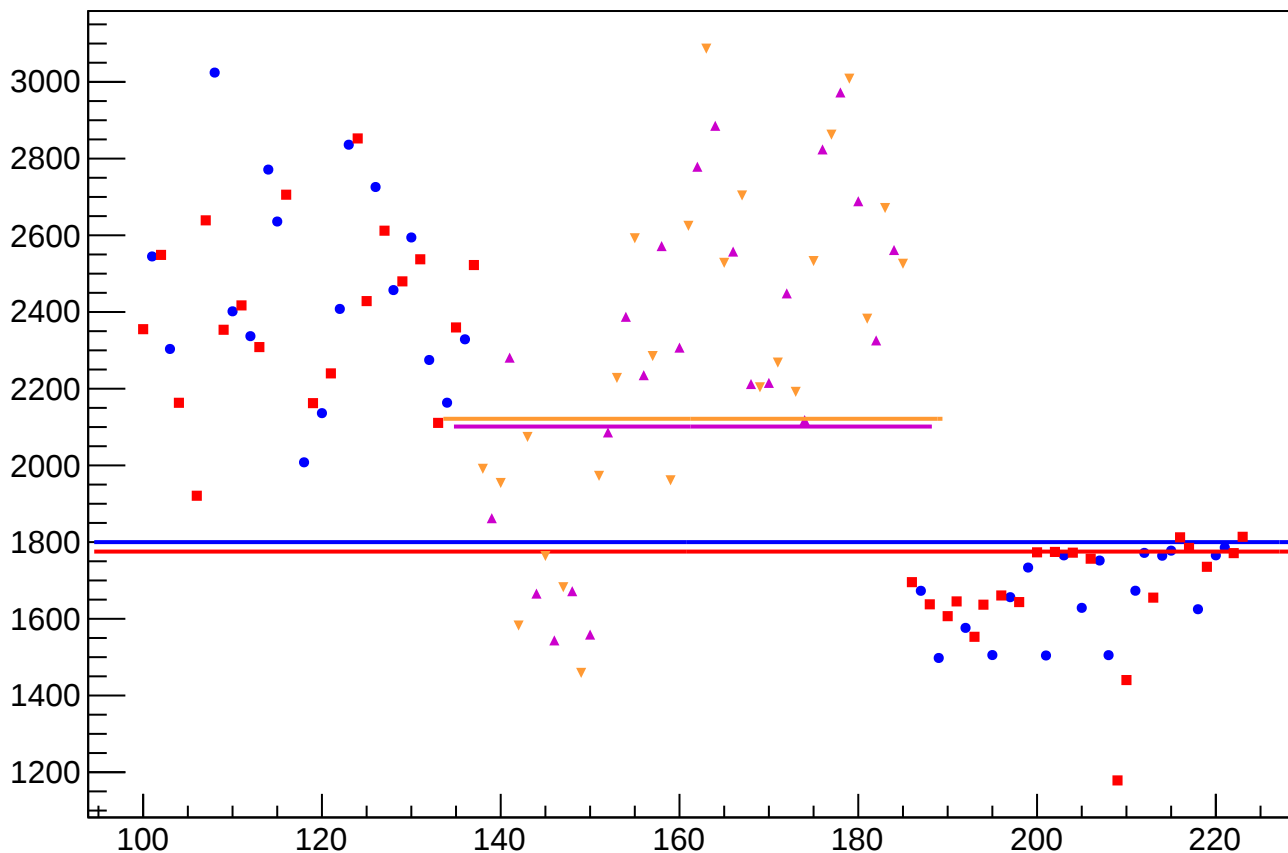
Right: 29.405 ± 0.286 χ^2/NDF : 99592.8/73

In: 28.772 ± 0.322 χ^2/NDF : 68107.3/57

Out: -11.402 ± 0.313 χ^2/NDF : 57744.9/63

All: 8.109 ± 0.224 χ^2/NDF : 133869.1/121

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1799.968 $\pm$ 0.290 χ^2/NDF : 1203282.0/34

Left Out: 2121.567 $\pm$ 0.357 χ^2/NDF : 1387847.6/24

Right Out: 1775.299 $\pm$ 0.281 χ^2/NDF : 1479164.9/38

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

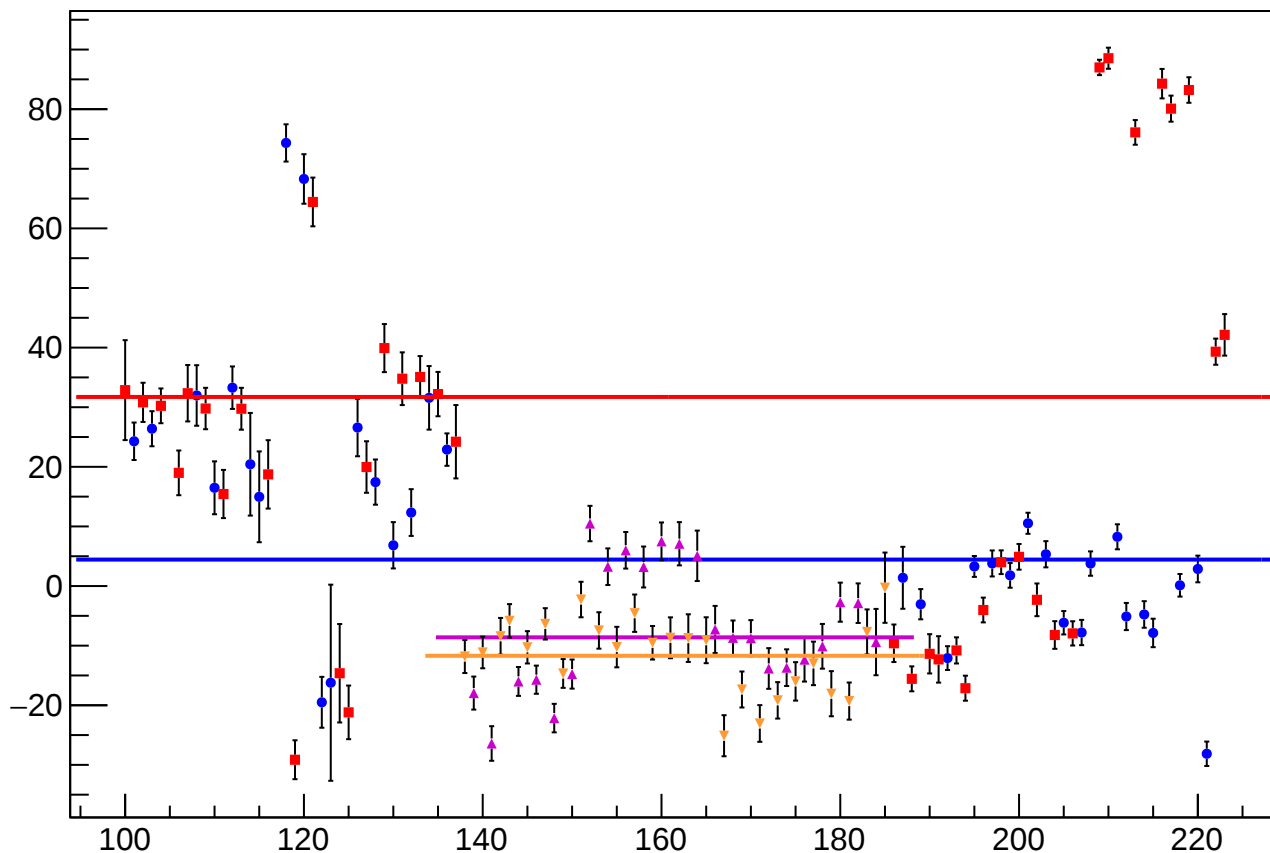
Right: 1787.245 $\pm$ 0.202 χ^2/NDF : 2686167.1/73

In: 1916.408 $\pm$ 0.228 χ^2/NDF : 2979675.9/57

Out: 1907.885 $\pm$ 0.221 χ^2/NDF : 3446547.9/63

All: 1912.024 $\pm$ 0.159 χ^2/NDF : 6426945.4/12

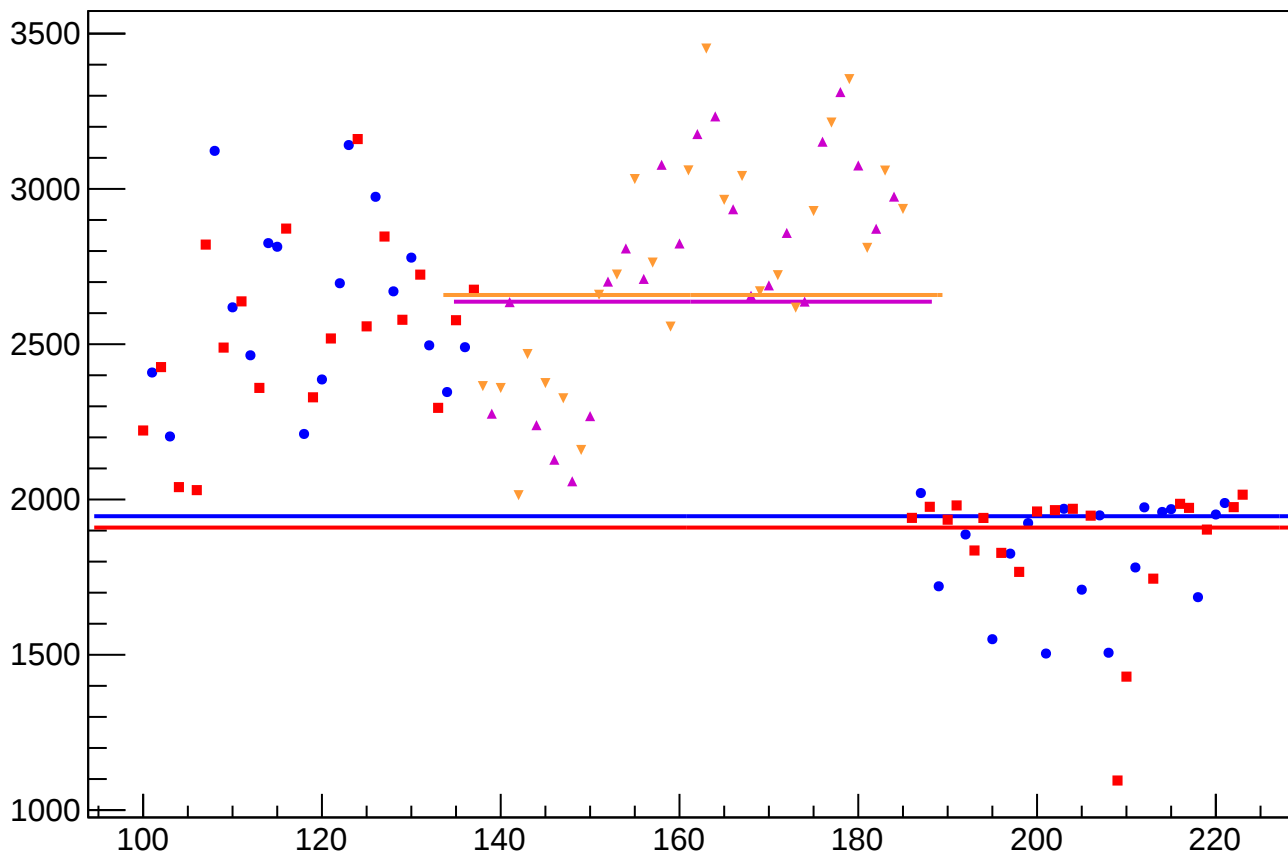
diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 4.439 ± 0.446 $\chi^2/\text{NDF}: 1559.5/34$
 Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$
 Right Out: 31.722 ± 0.431 $\chi^2/\text{NDF}: 8876.8/38$
 Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$
 Right: 18.549 ± 0.310 $\chi^2/\text{NDF}: 12369.3/73$
 In: 0.189 ± 0.366 $\chi^2/\text{NDF}: 2102.1/57$
 Out: 17.733 ± 0.355 $\chi^2/\text{NDF}: 12229.0/63$
 All: 9.238 ± 0.255 $\chi^2/\text{NDF}: 15513.6/121$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1946.199 $\pm$ 0.316 χ^2/NDF : 1221589.4/34

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 1909.655 $\pm$ 0.305 χ^2/NDF : 1832085.4/38

Left In: 2636.885 $\pm$ 0.454 χ^2/NDF : 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2/NDF : 1272190.1/47

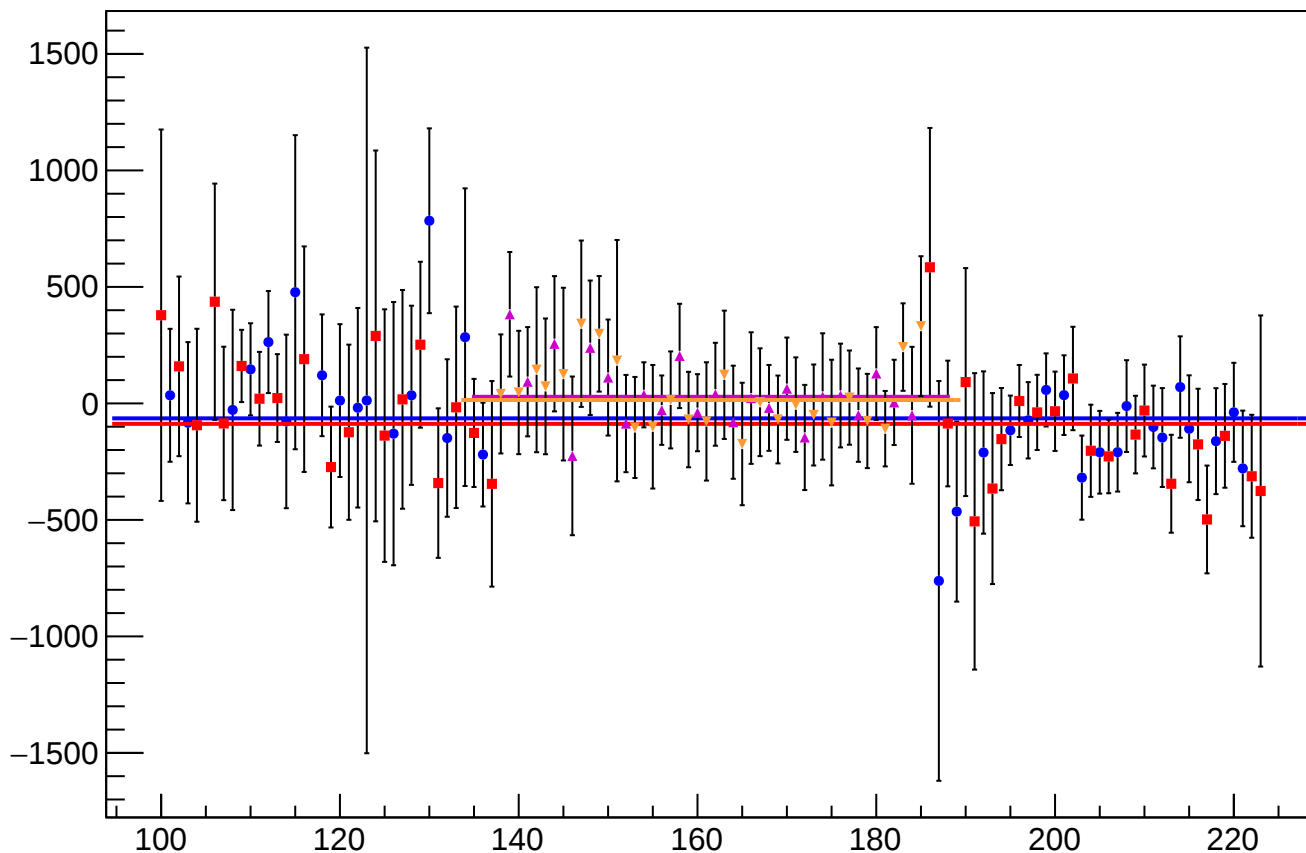
Right: 1927.300 $\pm$ 0.219 χ^2/NDF : 3060610.7/73

In: 2171.242 $\pm$ 0.259 χ^2/NDF : 3435447.8/57

Out: 2150.909 $\pm$ 0.251 χ^2/NDF : 4393515.7/63

All: 2160.754 $\pm$ 0.180 χ^2/NDF : 7832140.0/12

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.147 ± 40.567 $\chi^2/\text{NDF}: 18.2/34$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -87.724 ± 40.438 $\chi^2/\text{NDF}: 18.8/38$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

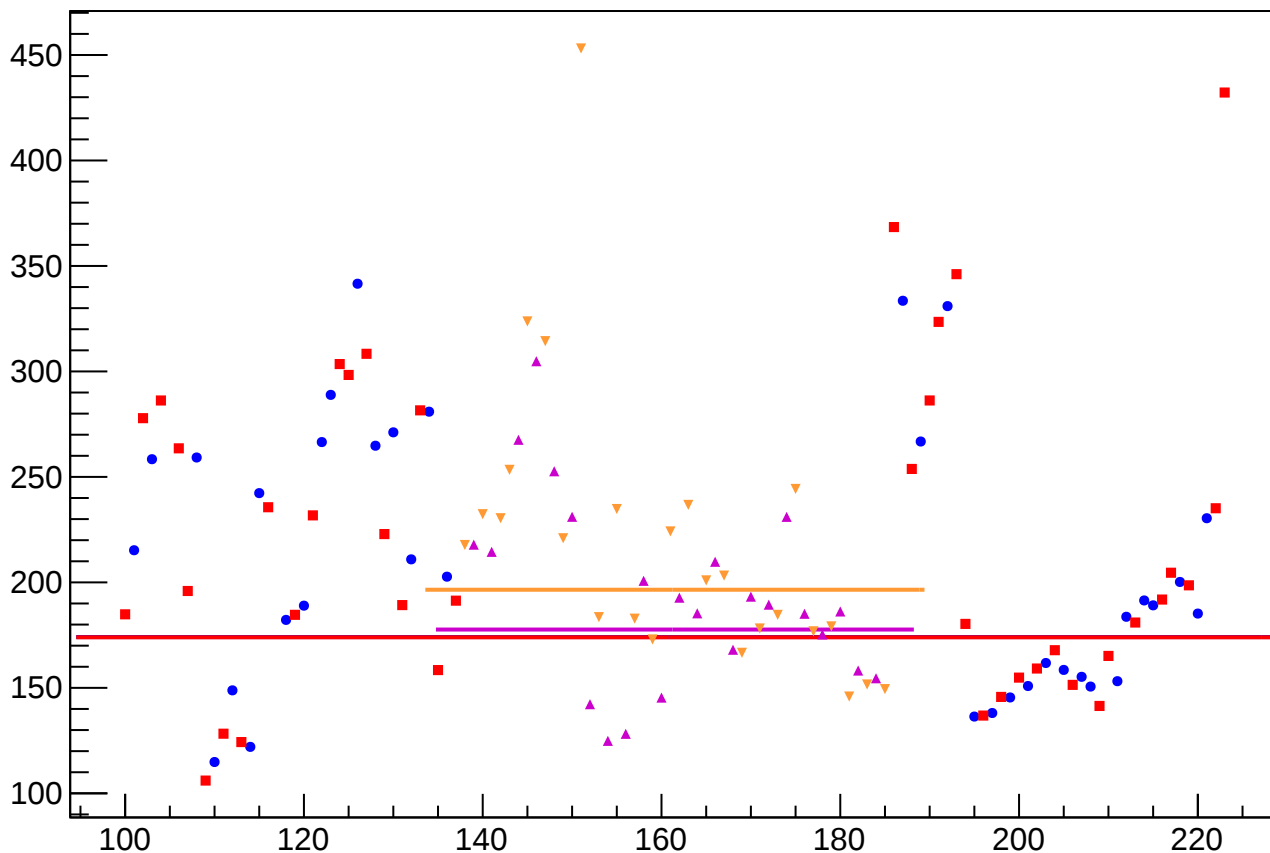
Right: -75.973 ± 28.640 $\chi^2/\text{NDF}: 37.2/73$

In: -22.326 ± 30.022 $\chi^2/\text{NDF}: 26.8/57$

Out: -44.790 ± 30.799 $\chi^2/\text{NDF}: 29.3/63$

All: -33.271 ± 21.498 $\chi^2/\text{NDF}: 56.4/121$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.081+/-0.029 χ^2/NDF : 2318432.4/34

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 173.968+/-0.029 χ^2/NDF : 3278933.3/38

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

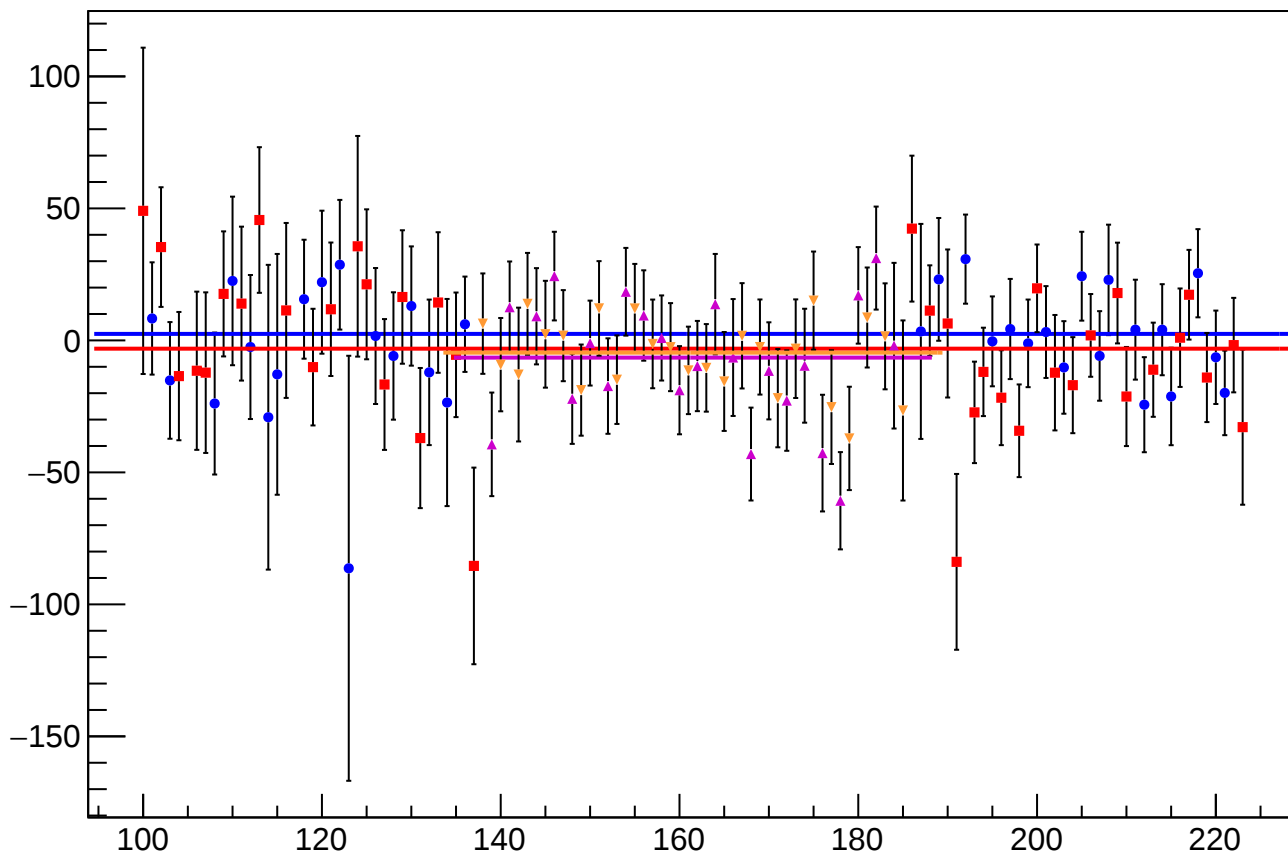
Right: 174.025+/-0.020 χ^2/NDF : 5597373.5/73

In: 175.692+/-0.021 χ^2/NDF : 3956071.0/57

Out: 183.435+/-0.022 χ^2/NDF : 5329507.7/63

All: 179.465+/-0.015 χ^2/NDF : 9350398.2/123

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.460 ± 3.566 $\chi^2/\text{NDF}: 21.9/34$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -3.137 ± 3.527 $\chi^2/\text{NDF}: 41.8/38$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

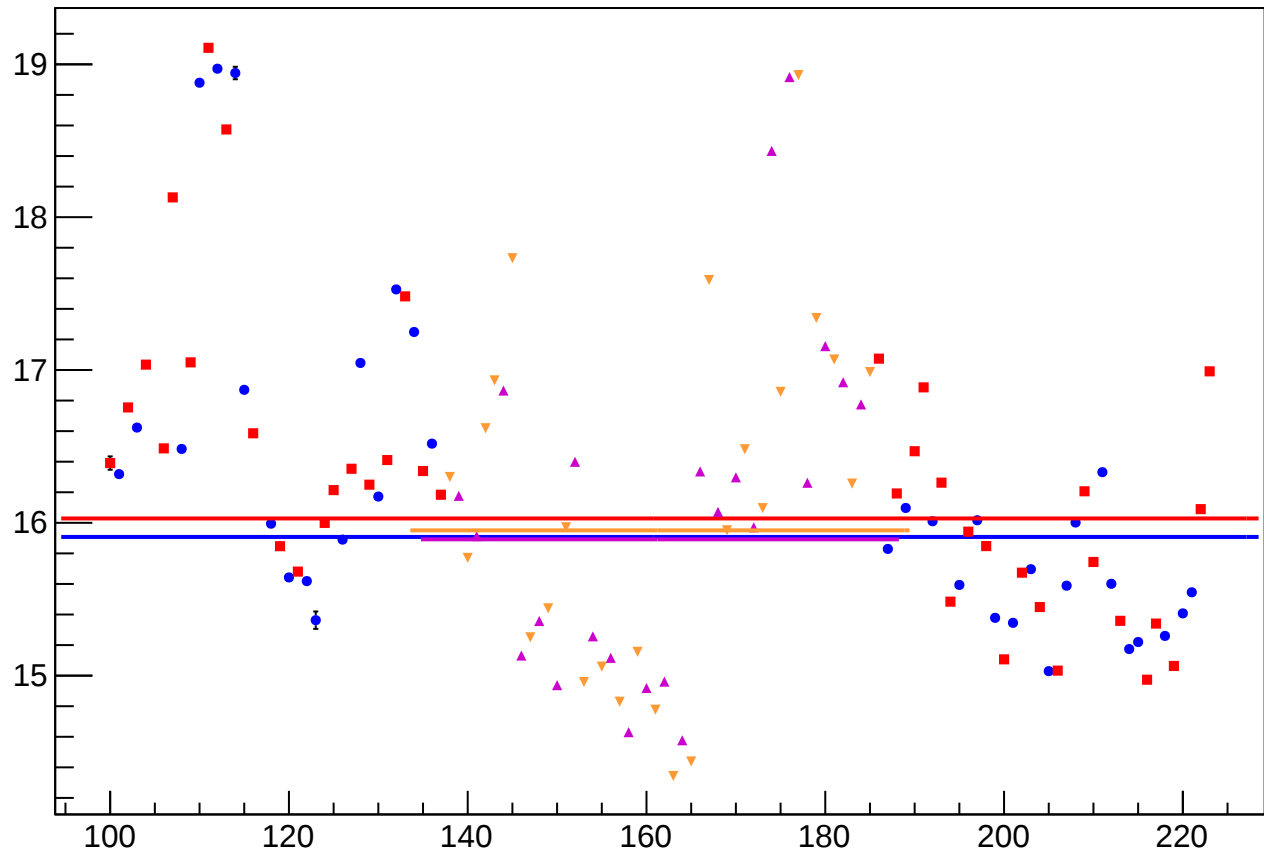
Right: -0.370 ± 2.508 $\chi^2/\text{NDF}: 64.9/73$

In: -1.716 ± 2.609 $\chi^2/\text{NDF}: 61.2/57$

Out: -3.849 ± 2.562 $\chi^2/\text{NDF}: 53.9/63$

All: -2.802 ± 1.828 $\chi^2/\text{NDF}: 115.5/121$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.908 $\pm$ 0.003 χ^2/NDF : 94749.8/34

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF :173458.5/24

Right Out: 16.029 $\pm$ 0.002 χ^2/NDF : 113210.2/38

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

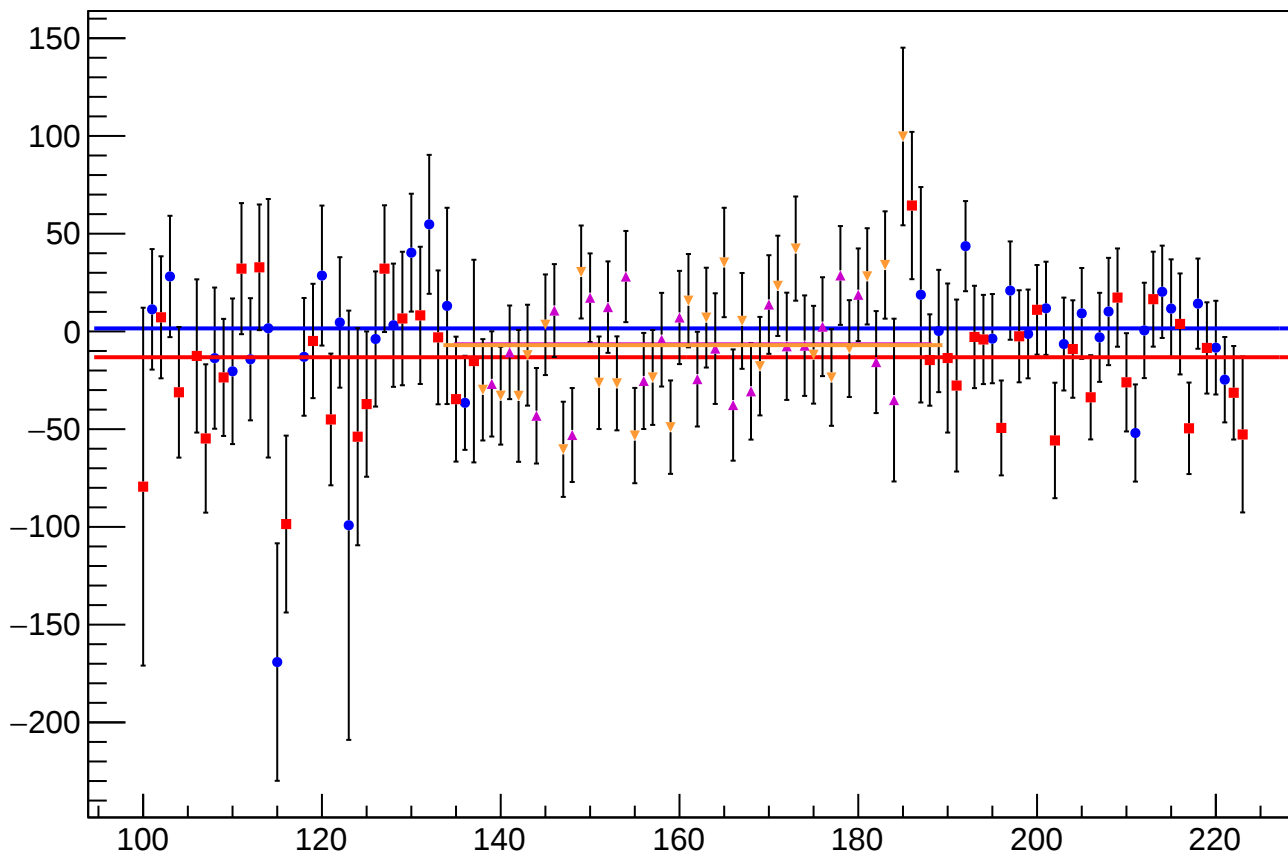
Right: 15.969 $\pm$ 0.002 χ^2/NDF : 209124.6/73

In: 15.900 $\pm$ 0.002 χ^2/NDF :241861.2/57

Out: 15.992 $\pm$ 0.002 χ^2/NDF :287129.6/63

All: 15.947 $\pm$ 0.001 χ^2/NDF : 530244.2/121

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.551 ± 4.794 $\chi^2/\text{NDF}: 29.6/34$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -13.201 ± 4.735 $\chi^2/\text{NDF}: 34.0/38$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

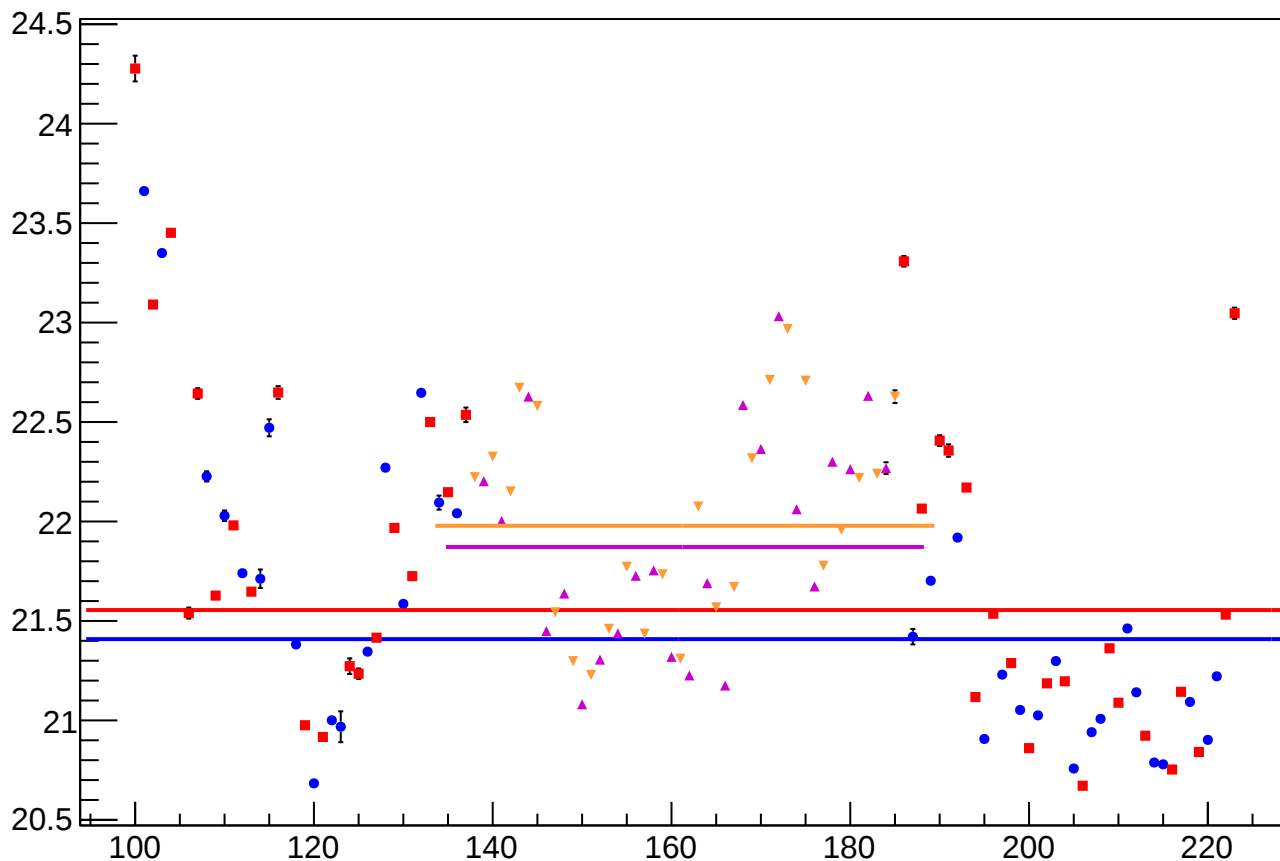
Right: -5.916 ± 3.369 $\chi^2/\text{NDF}: 68.4/73$

In: -2.159 ± 3.540 $\chi^2/\text{NDF}: 50.1/57$

Out: -10.351 ± 3.477 $\chi^2/\text{NDF}: 72.2/63$

All: -6.329 ± 2.481 $\chi^2/\text{NDF}: 125.0/121$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.409 ± 0.003 $\chi^2/\text{NDF}: 38271.9/34$

Left Out: 21.978 ± 0.004 $\chi^2/\text{NDF}: 19430.2/24$

Right Out: 21.555 ± 0.003 $\chi^2/\text{NDF}: 45561.9/38$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.926 ± 0.003 $\chi^2/\text{NDF}: 40377.5/47$

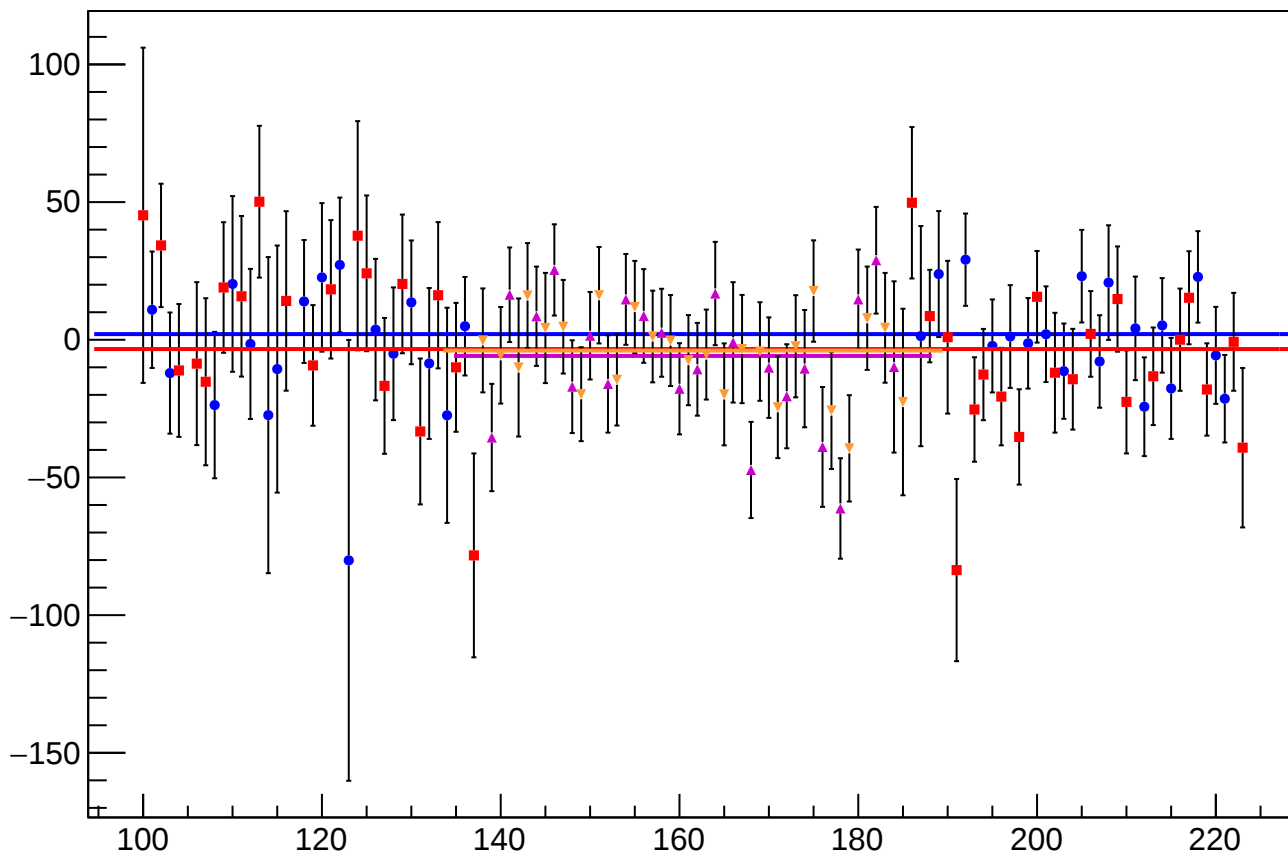
Right: 21.483 ± 0.002 $\chi^2/\text{NDF}: 84773.6/73$

In: 21.619 ± 0.003 $\chi^2/\text{NDF}: 67283.9/57$

Out: 21.750 ± 0.002 $\chi^2/\text{NDF}: 72372.9/63$

All: 21.686 ± 0.002 $\chi^2/\text{NDF}: 141047.0/121$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.060 ± 3.542 $\chi^2/\text{NDF}: 20.5/34$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -3.368 ± 3.503 $\chi^2/\text{NDF}: 43.0/38$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

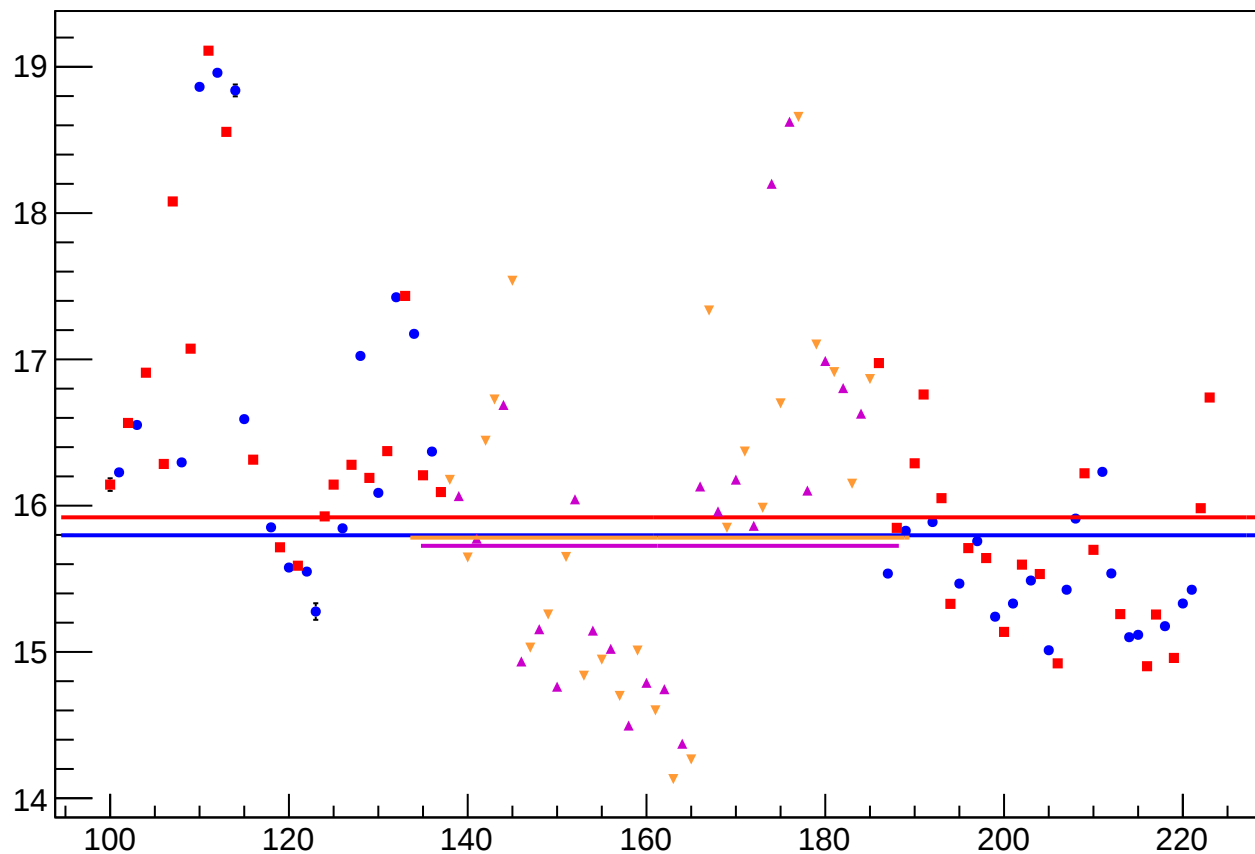
Right: -0.684 ± 2.491 $\chi^2/\text{NDF}: 64.7/73$

In: -1.636 ± 2.587 $\chi^2/\text{NDF}: 59.1/57$

Out: -3.633 ± 2.540 $\chi^2/\text{NDF}: 57.0/63$

All: -2.653 ± 1.812 $\chi^2/\text{NDF}: 116.3/121$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.797 $\pm$ 0.003 χ^2 /NDF: 96565.9/34

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 15.920 $\pm$ 0.002 χ^2 /NDF: 114403.0/38

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47

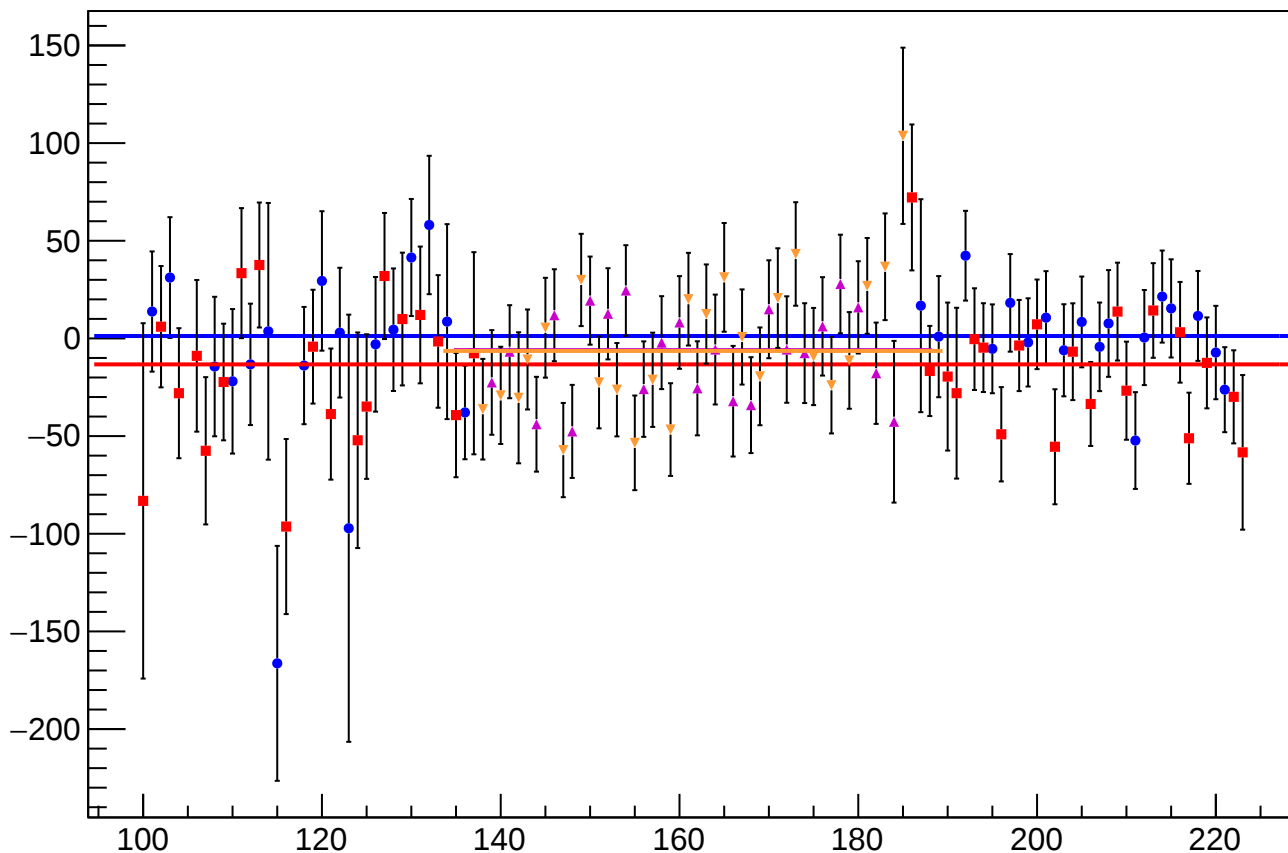
Right: 15.860 $\pm$ 0.002 χ^2 /NDF: 212183.0/73

In: 15.764 $\pm$ 0.002 χ^2 /NDF:242783.1/57

Out: 15.854 $\pm$ 0.002 χ^2 /NDF:288788.8/63

All: 15.810 $\pm$ 0.001 χ^2 /NDF: 532817.8/121

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.238 ± 4.774 $\chi^2/\text{NDF}: 30.4/34$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -13.286 ± 4.713 $\chi^2/\text{NDF}: 35.4/38$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

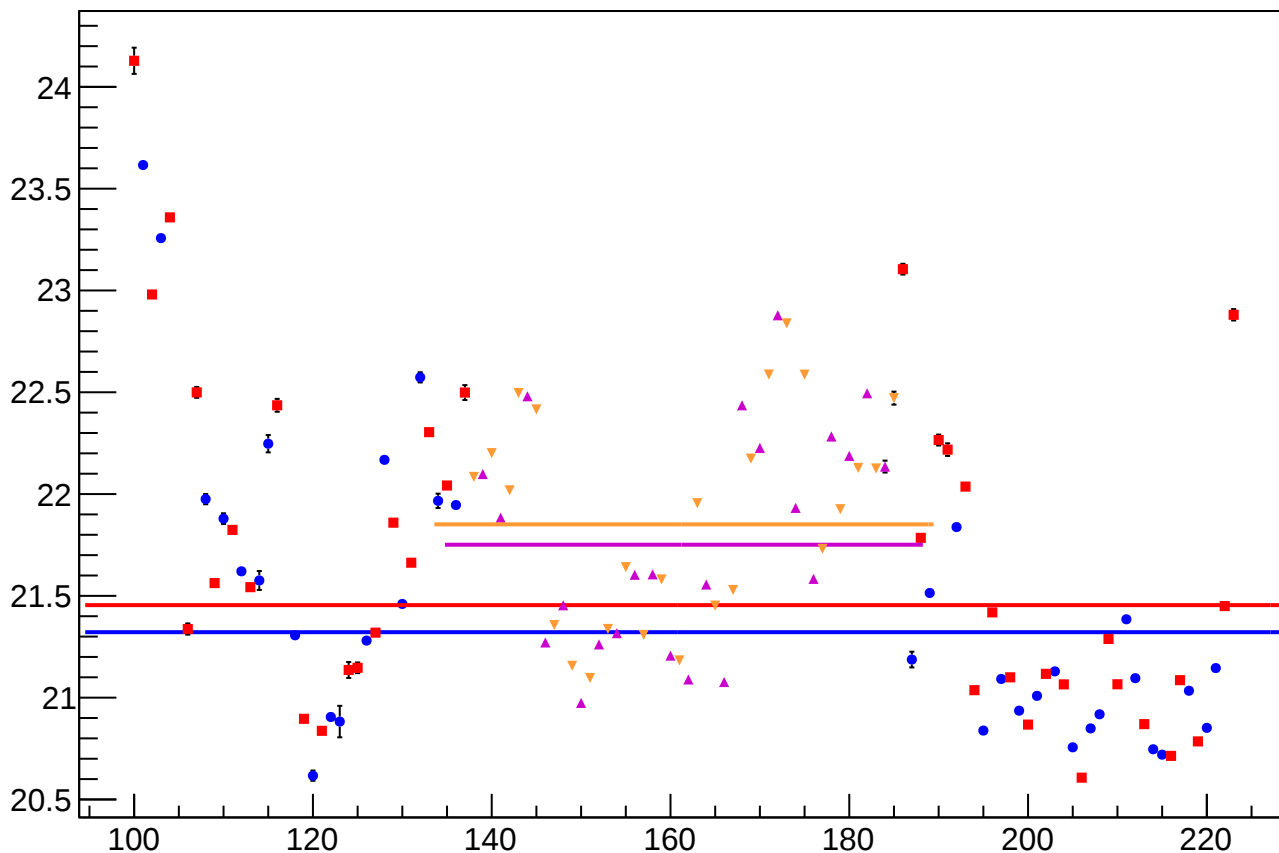
Right: -6.118 ± 3.354 $\chi^2/\text{NDF}: 70.5/73$

In: -2.047 ± 3.524 $\chi^2/\text{NDF}: 50.0/57$

Out: -10.110 ± 3.459 $\chi^2/\text{NDF}: 73.7/63$

All: -6.154 ± 2.468 $\chi^2/\text{NDF}: 126.4/121$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.322 $\pm$ 0.003 χ^2 /NDF: 37052.3/34

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.455 $\pm$ 0.003 χ^2 /NDF: 41947.9/38

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

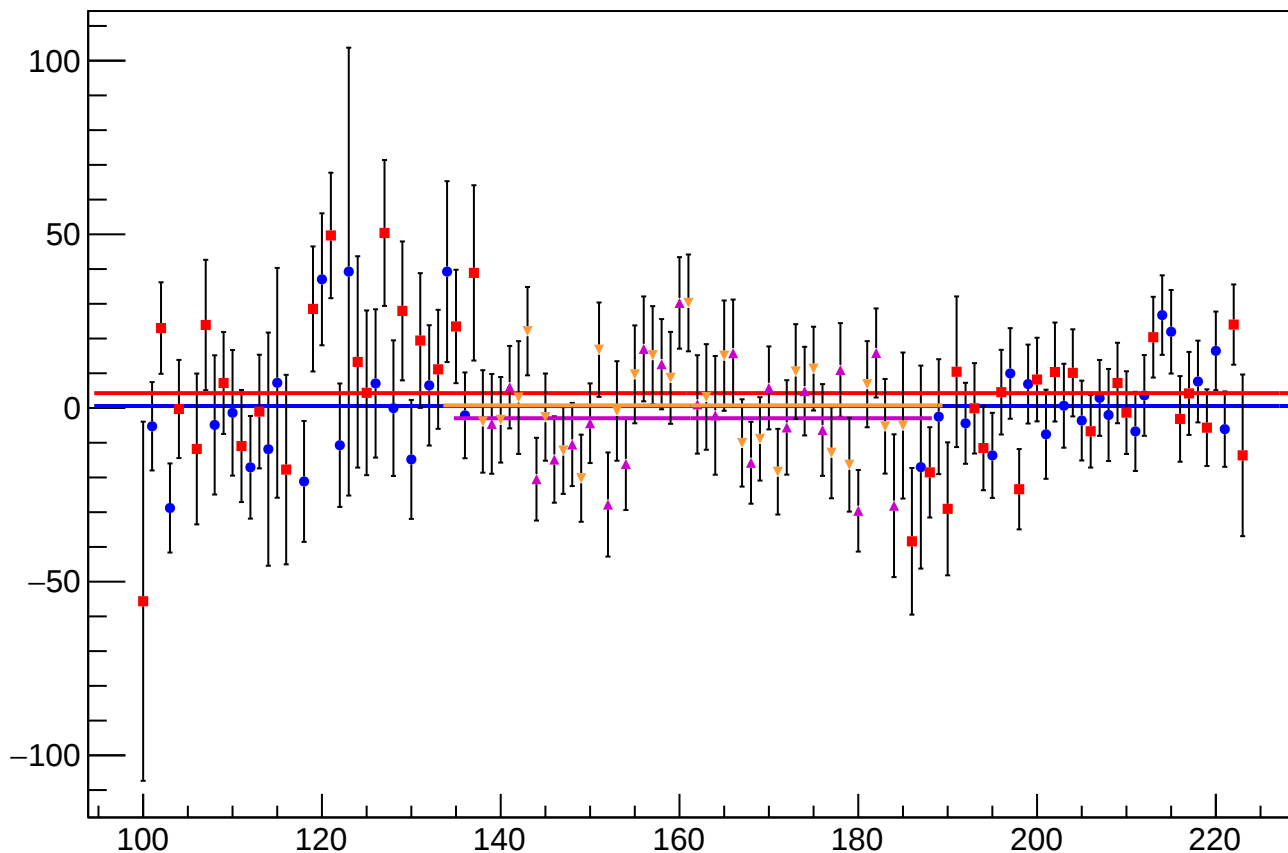
Right: 21.389 $\pm$ 0.002 χ^2 /NDF: 79785.1/73

In: 21.517 $\pm$ 0.002 χ^2 /NDF:64940.2/57

Out: 21.638 $\pm$ 0.002 χ^2 /NDF:68115.2/63

All: 21.578 $\pm$ 0.002 χ^2 /NDF: 134243.8/121

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.572 ± 2.401 χ^2/NDF : 31.4/34

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 4.279 ± 2.390 χ^2/NDF : 51.6/38

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

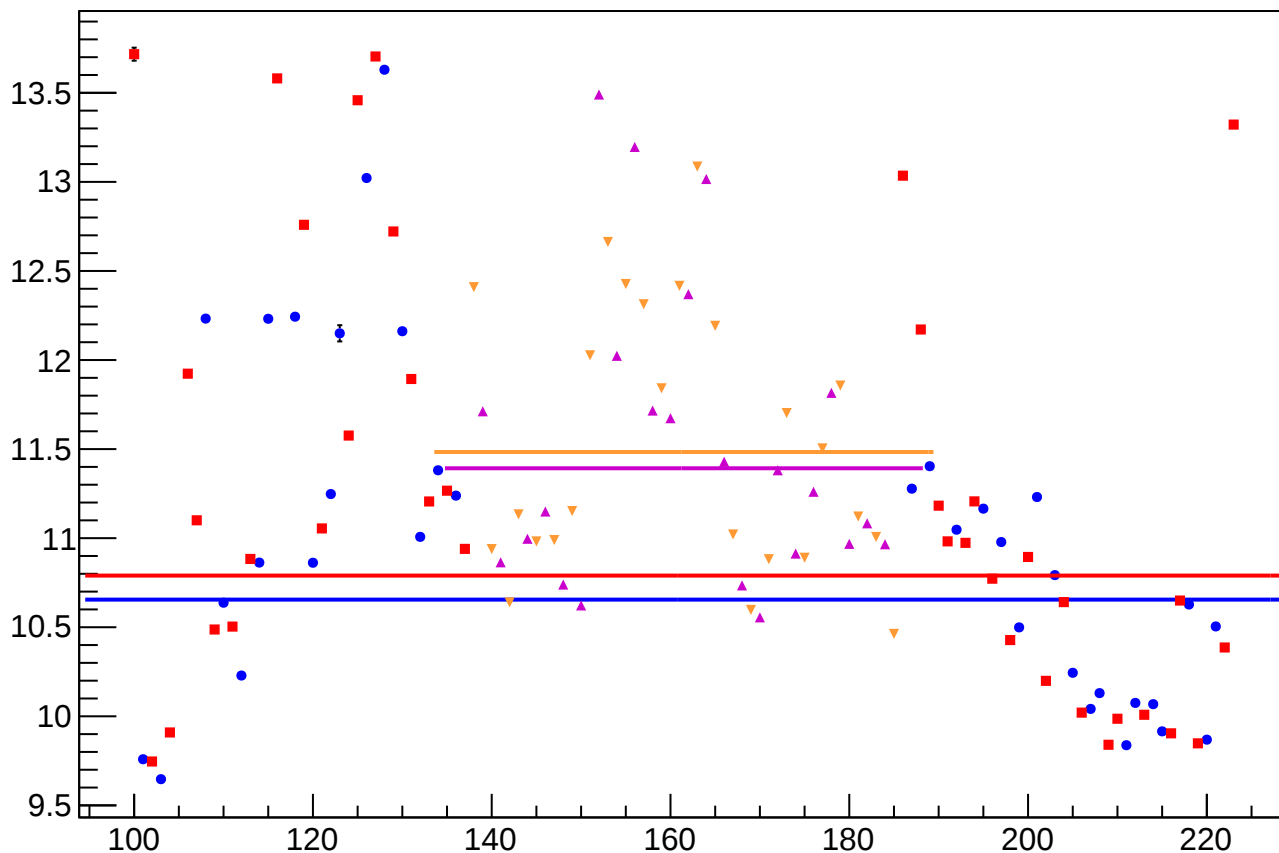
Right: 2.434 ± 1.694 χ^2/NDF : 84.1/73

In: -0.945 ± 1.811 χ^2/NDF : 63.2/57

Out: 2.732 ± 1.789 χ^2/NDF : 76.3/63

All: 0.916 ± 1.273 χ^2/NDF : 141.6/121

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.655 $\pm$ 0.002 χ^2/NDF : 221230.6/34

Left Out: 11.484 $\pm$ 0.002 χ^2/NDF :129805.4/24

Right Out: 10.790 $\pm$ 0.002 χ^2/NDF : 321272.7/38

Left In: 11.392 $\pm$ 0.002 χ^2/NDF :150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2/NDF : 281419.2/47

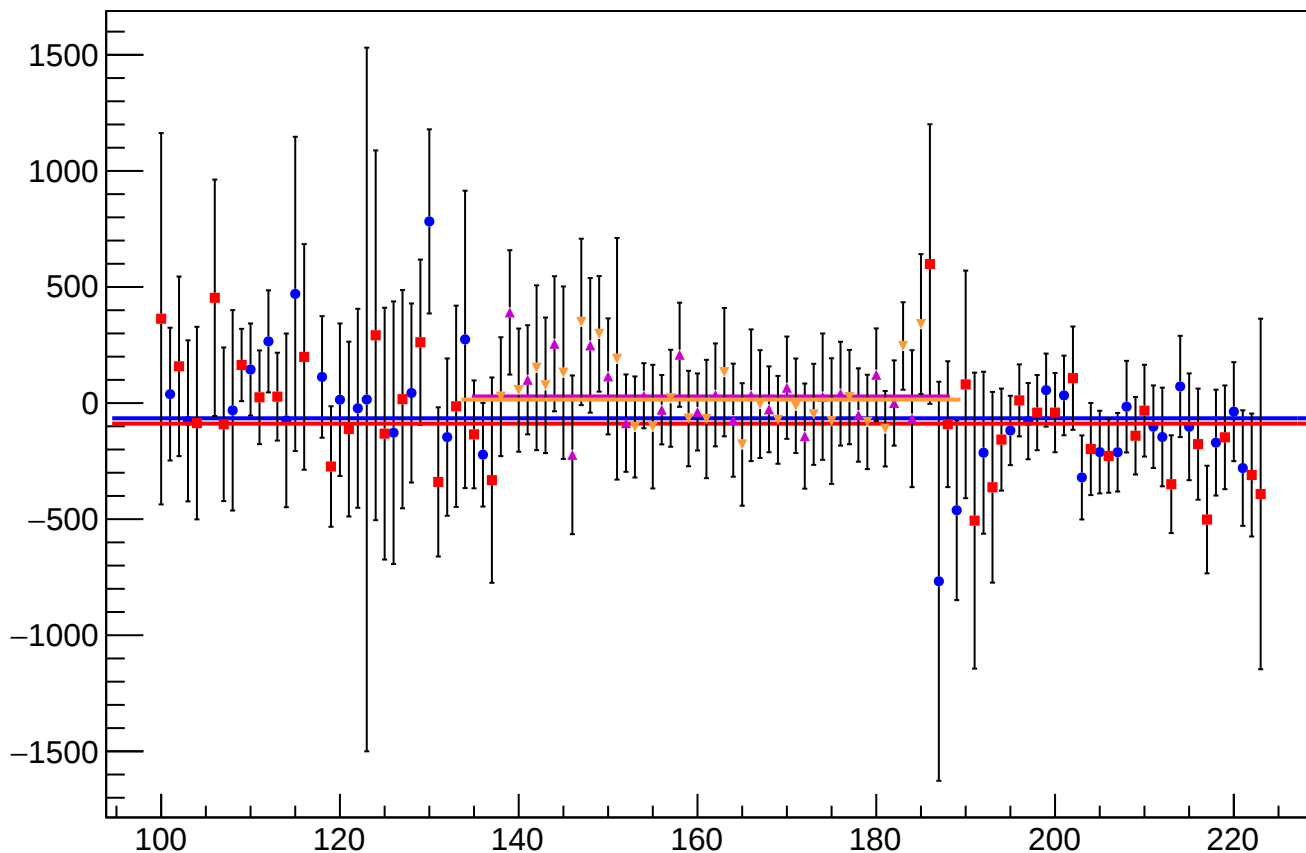
Right: 10.723 $\pm$ 0.001 χ^2/NDF : 545676.8/73

In: 10.973 $\pm$ 0.001 χ^2/NDF :453051.9/57

Out: 11.095 $\pm$ 0.001 χ^2/NDF :525160.3/63

All: 11.035 $\pm$ 0.001 χ^2/NDF : 982799.7/121

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.444 ± 40.666 $\chi^2/\text{NDF}: 18.2/34$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -88.442 ± 40.543 $\chi^2/\text{NDF}: 19.1/38$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

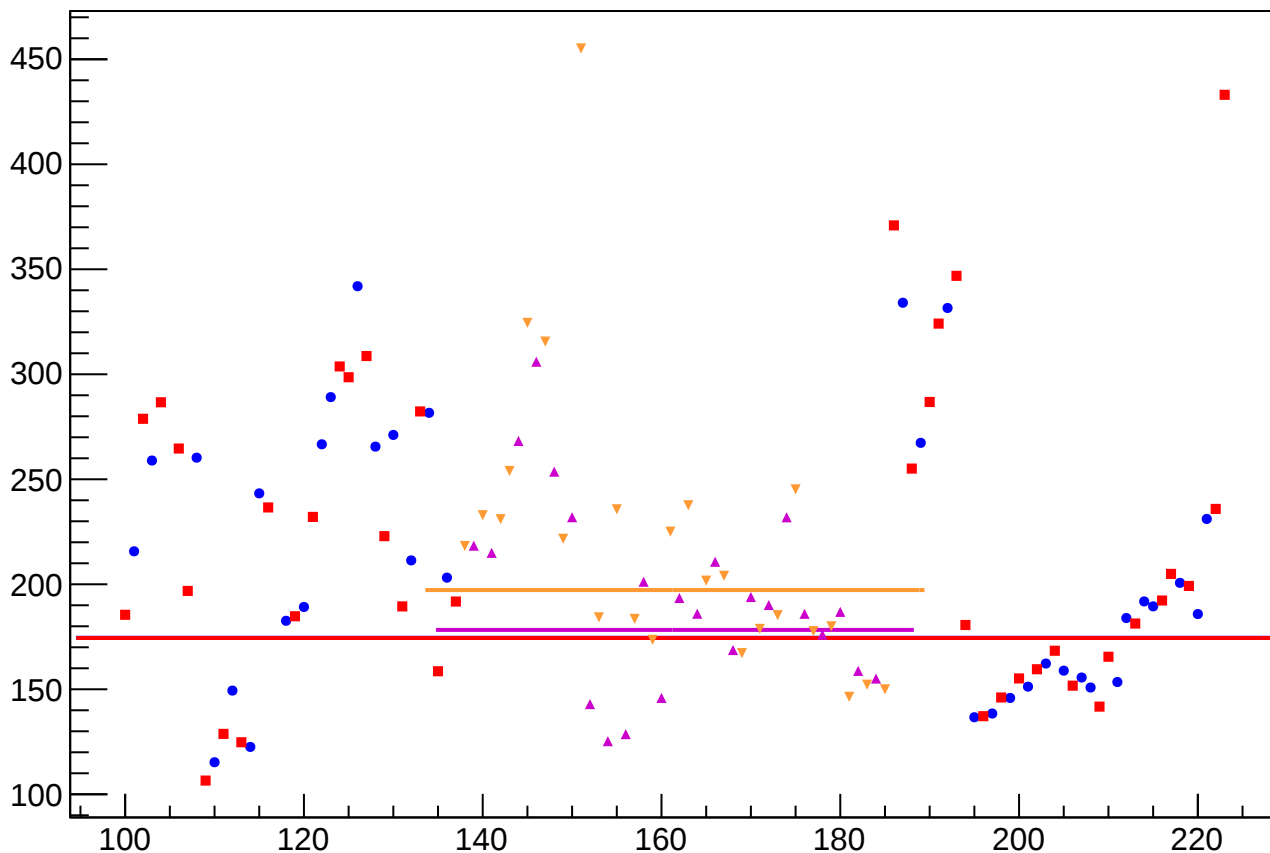
Right: -76.978 ± 28.712 $\chi^2/\text{NDF}: 37.4/73$

In: -23.001 ± 30.110 $\chi^2/\text{NDF}: 27.0/57$

Out: -45.007 ± 30.893 $\chi^2/\text{NDF}: 29.8/63$

All: -33.722 ± 21.563 $\chi^2/\text{NDF}: 57.0/121$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.517+/-0.029 χ^2/NDF : 2313911.9/34

Left Out: 197.249+/-0.034 χ^2/NDF : 1786808.1/24

Right Out: 174.428+/-0.029 χ^2/NDF : 3275292.1/38

Left In: 178.277+/-0.032 χ^2/NDF : 1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

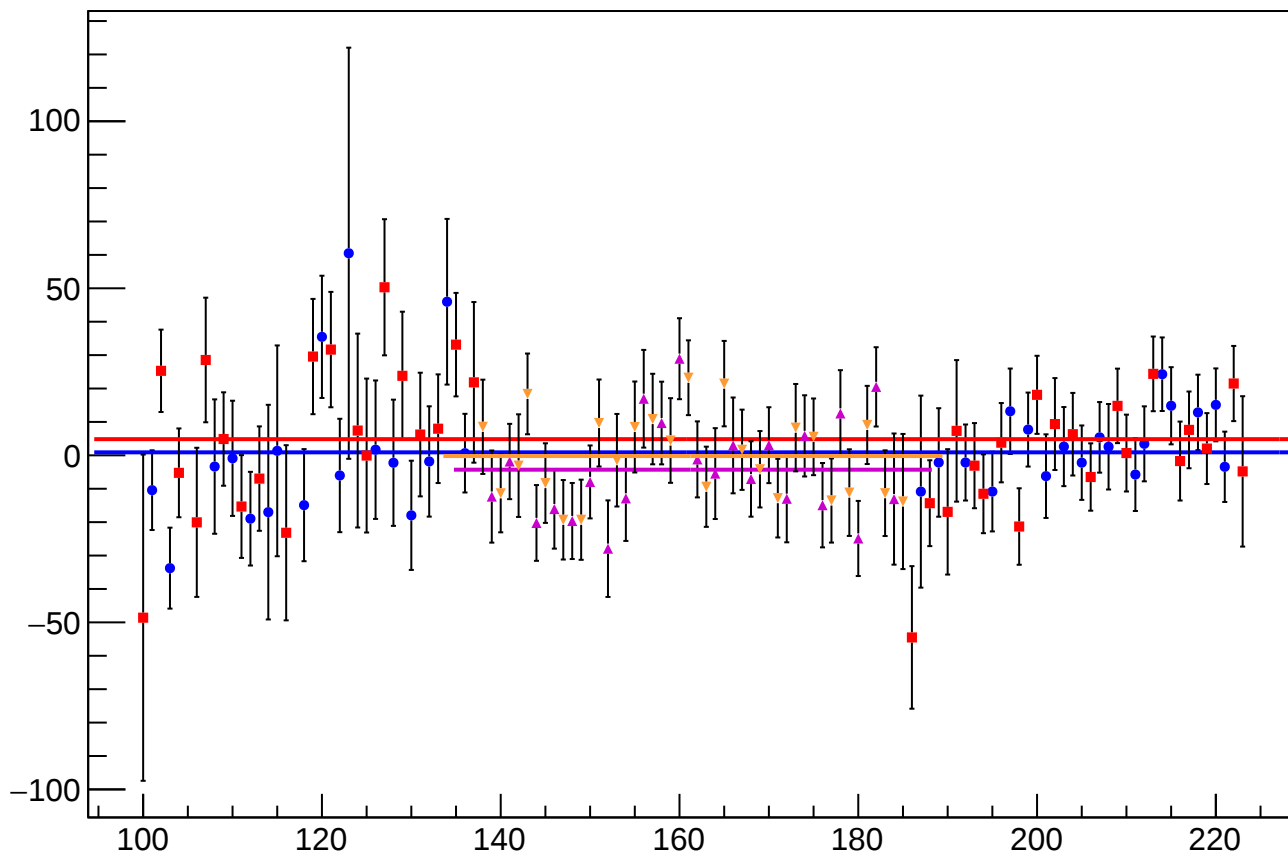
Right: 174.472+/-0.020 χ^2/NDF : 5589208.8/73

In: 176.216+/-0.021 χ^2/NDF : 3950552.3/57

Out: 183.999+/-0.022 χ^2/NDF : 5327854.1/63

All: 180.007+/-0.015 χ^2/NDF : 9343504.3/123

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.896 ± 2.316 χ^2/NDF : 34.3/34

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 4.842 ± 2.310 χ^2/NDF : 53.5/38

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

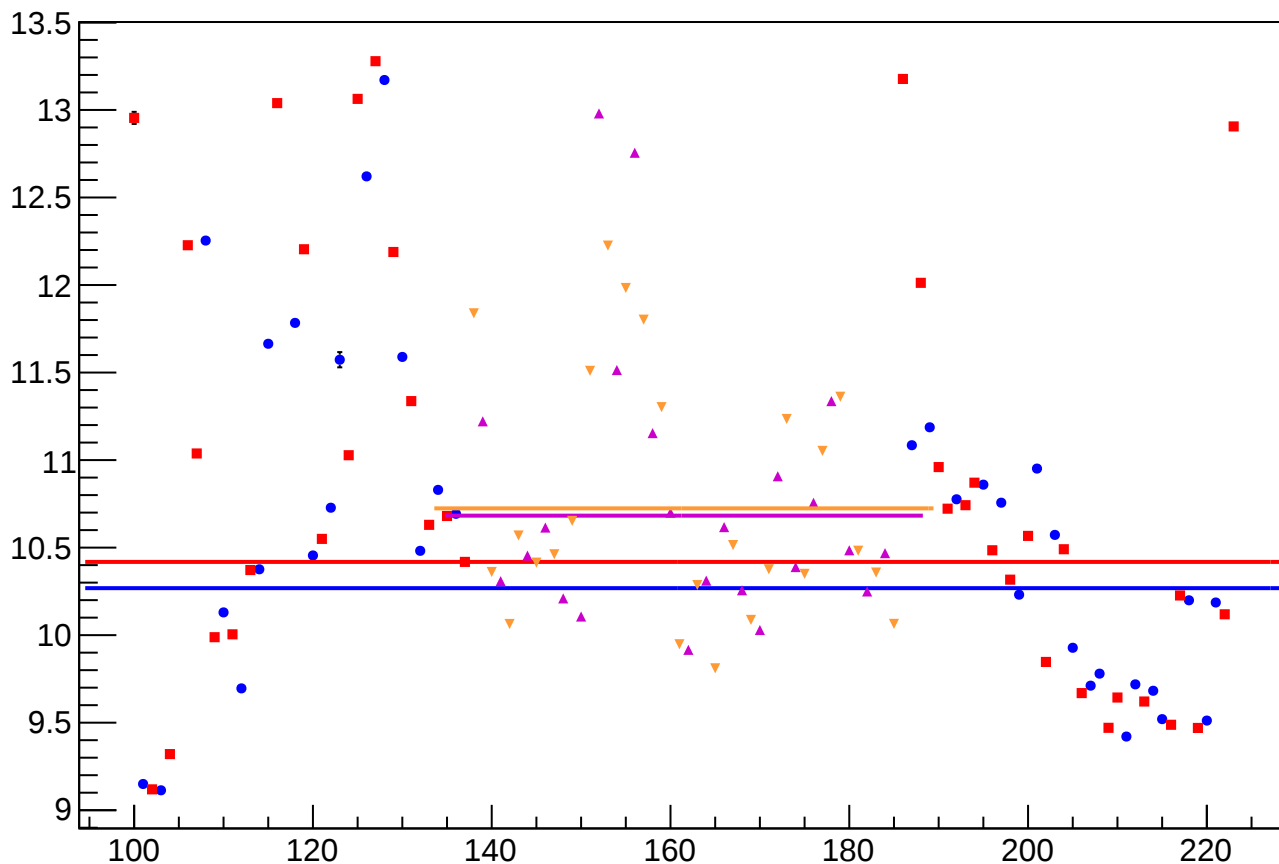
Right: 2.874 ± 1.636 χ^2/NDF : 89.2/73

In: -1.413 ± 1.726 χ^2/NDF : 68.1/57

Out: 2.539 ± 1.704 χ^2/NDF : 80.2/63

All: 0.589 ± 1.213 χ^2/NDF : 150.9/121

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.268 $\pm$ 0.002 χ^2/NDF : 249737.4/34

Left Out: 10.724 $\pm$ 0.002 χ^2/NDF :132558.9/24

Right Out: 10.418 $\pm$ 0.002 χ^2/NDF : 365109.3/38

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

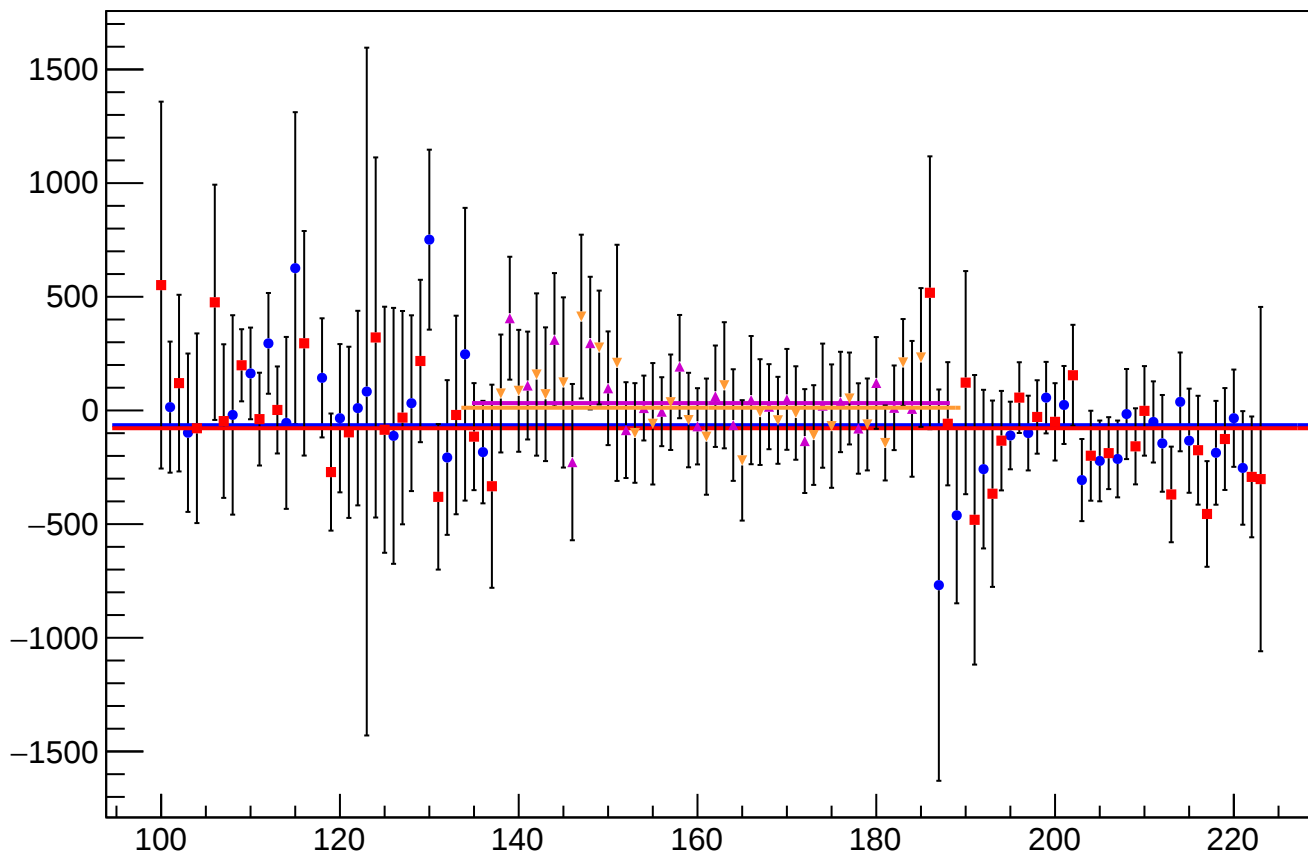
Right: 10.344 $\pm$ 0.001 χ^2/NDF : 619049.2/73

In: 10.453 $\pm$ 0.001 χ^2/NDF :426005.1/57

Out: 10.558 $\pm$ 0.001 χ^2/NDF :513649.8/63

All: 10.506 $\pm$ 0.001 χ^2/NDF : 943420.3/121

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.776 ± 40.730 $\chi^2/\text{NDF}: 18.5/34$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -78.290 ± 40.662 $\chi^2/\text{NDF}: 19.4/38$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

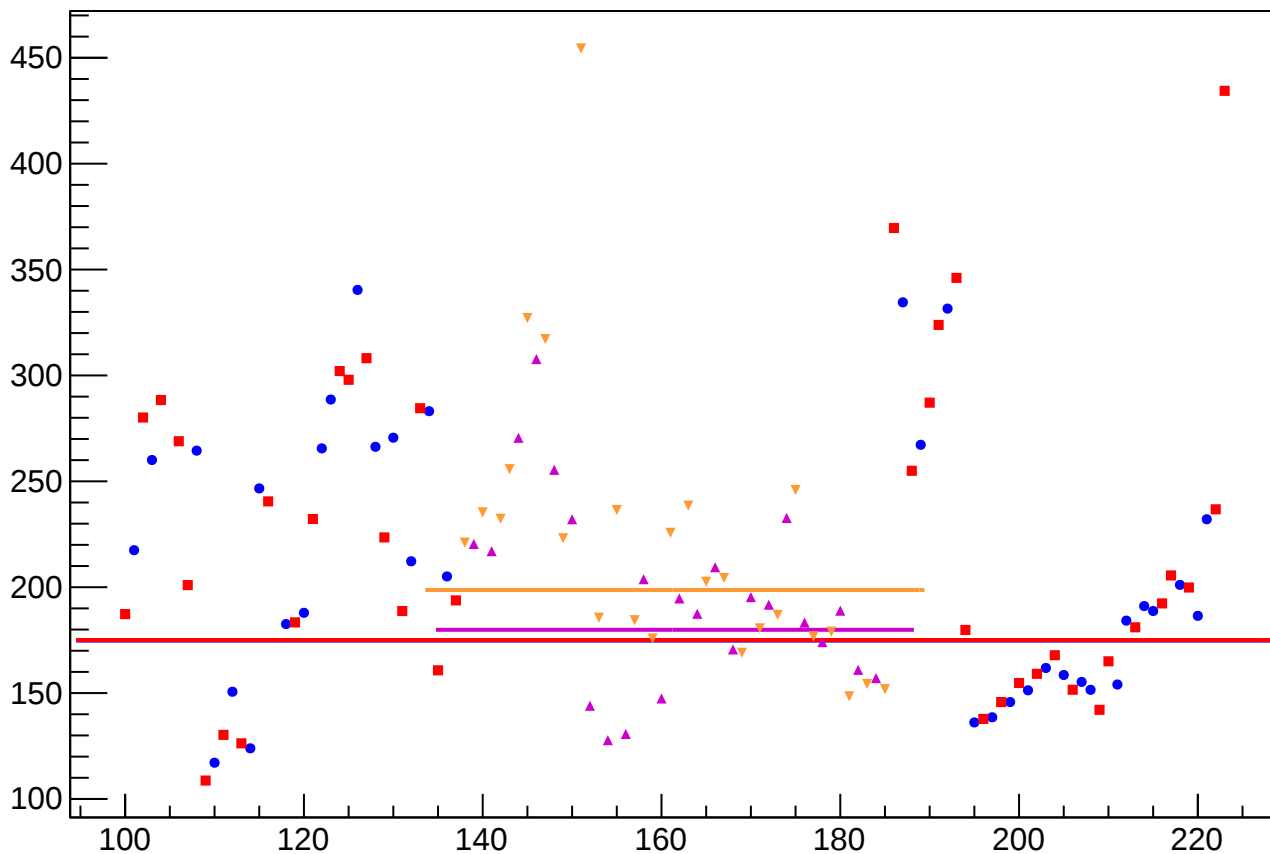
Right: -71.544 ± 28.776 $\chi^2/\text{NDF}: 38.0/73$

In: -21.176 ± 30.244 $\chi^2/\text{NDF}: 27.9/57$

Out: -40.633 ± 31.032 $\chi^2/\text{NDF}: 29.1/63$

All: -30.654 ± 21.659 $\chi^2/\text{NDF}: 57.3/121$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.797 $\pm$ 0.029 χ^2 /NDF: 2311460.2/34

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 175.062 $\pm$ 0.029 χ^2 /NDF: 3233041.6/38

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

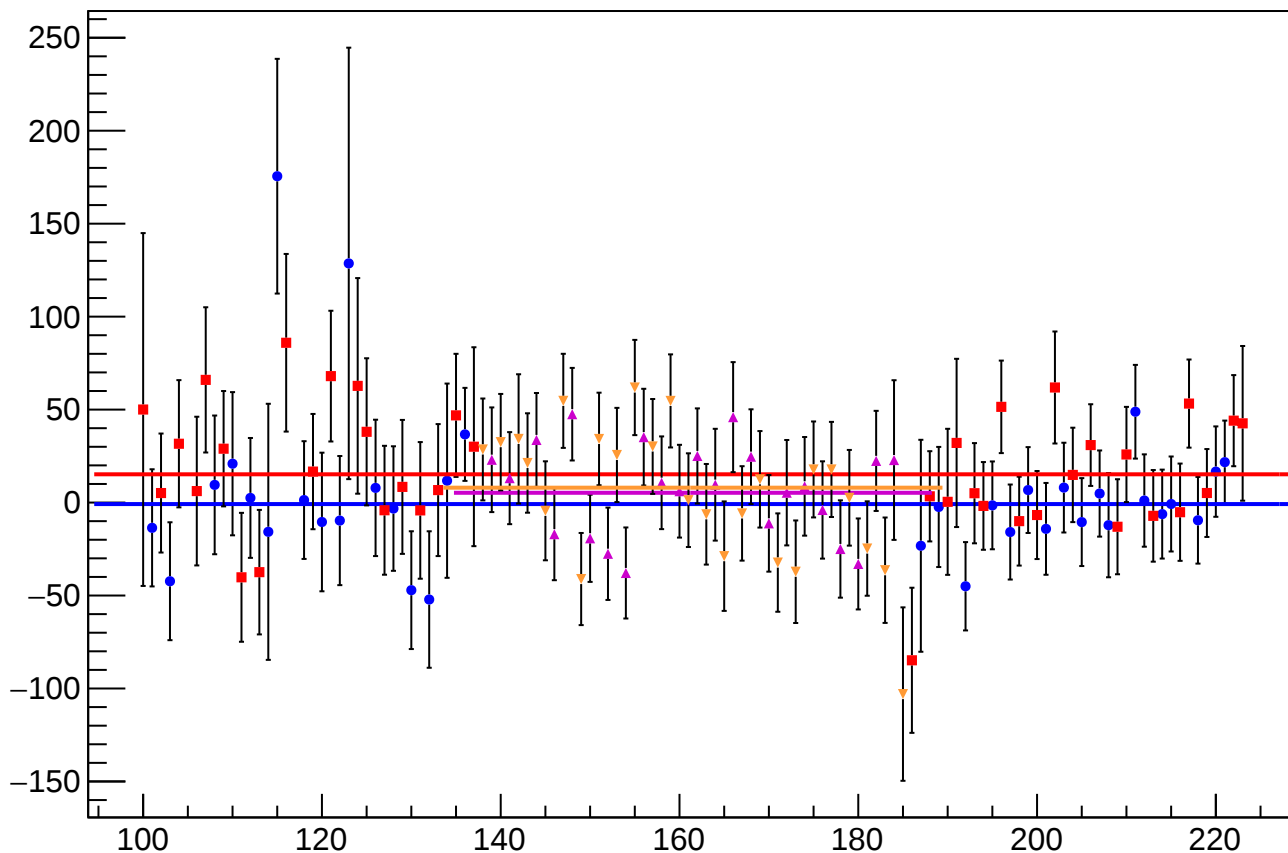
Right: 174.930 $\pm$ 0.020 χ^2 /NDF: 5544544.3/73

In: 177.080 $\pm$ 0.021 χ^2 /NDF:3906106.2/57

Out: 184.931 $\pm$ 0.022 χ^2 /NDF:5274456.9/63

All: 180.905 $\pm$ 0.015 χ^2 /NDF: 9246210.8/123

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.809 ± 4.920 χ^2/NDF : 28.5/34

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 15.202 ± 4.872 χ^2/NDF : 36.7/38

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

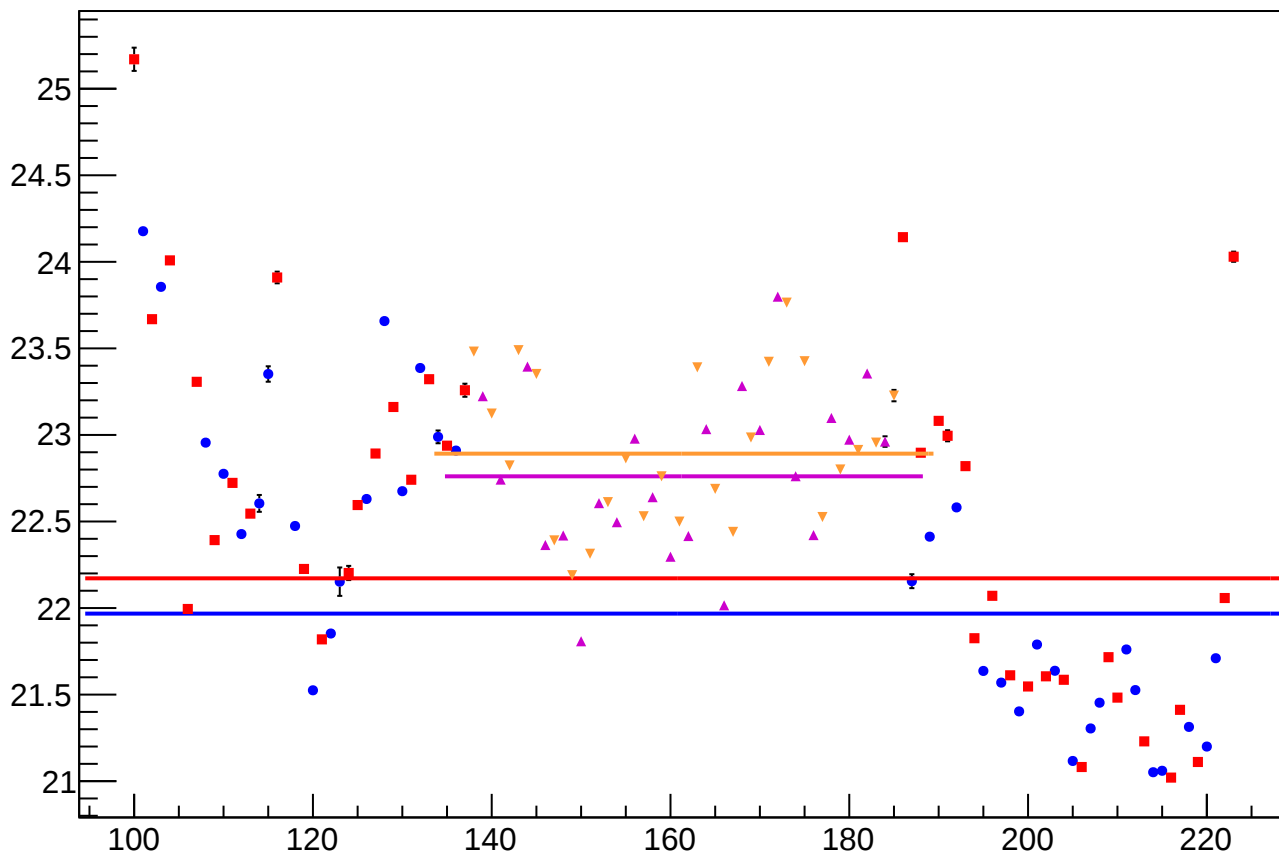
Right: 7.275 ± 3.462 χ^2/NDF : 70.5/73

In: 1.908 ± 3.656 χ^2/NDF : 49.9/57

Out: 11.928 ± 3.597 χ^2/NDF : 75.2/63

All: 7.000 ± 2.564 χ^2/NDF : 128.9/121

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.968 $\pm$ 0.003 χ^2 /NDF: 54158.9/34

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.172 $\pm$ 0.003 χ^2 /NDF: 63083.7/38

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

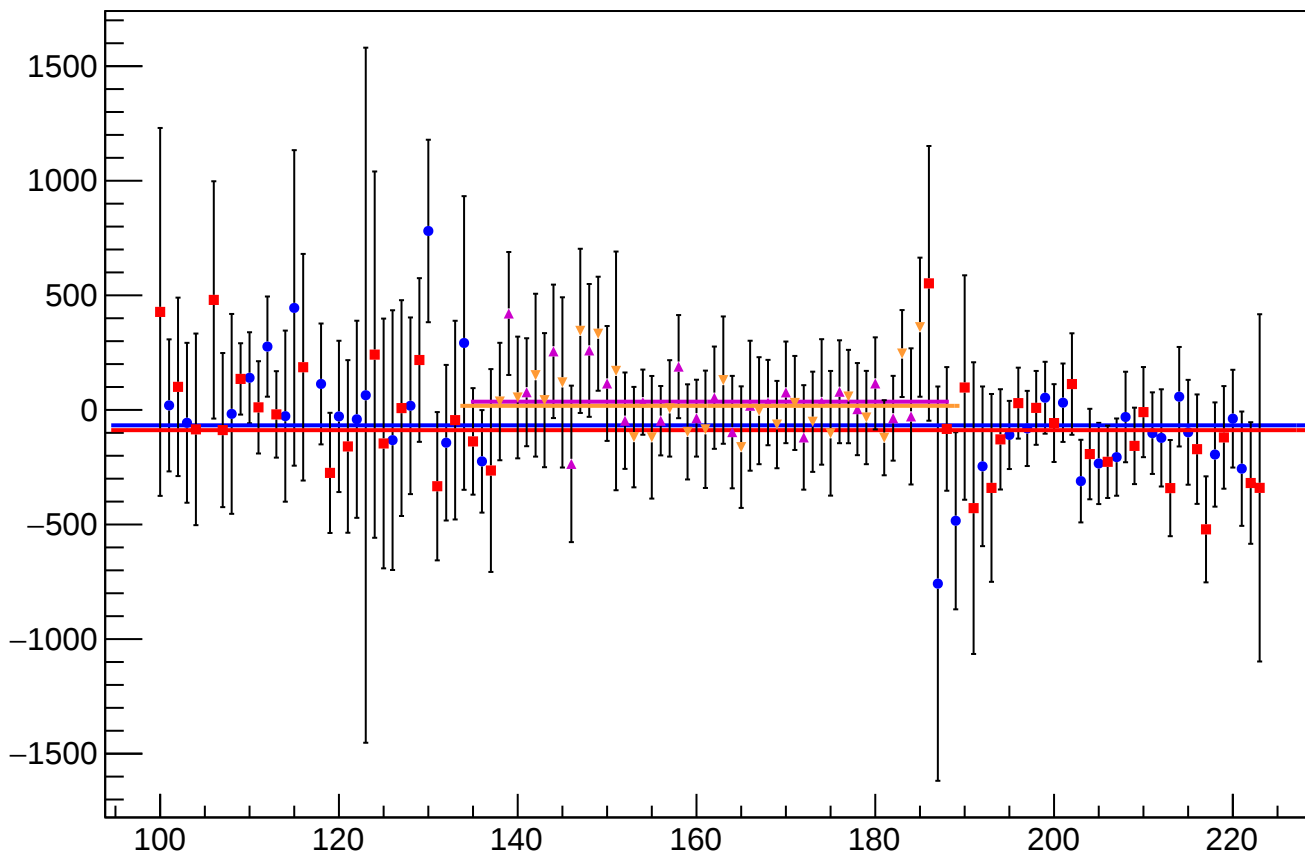
Right: 22.071 $\pm$ 0.002 χ^2 /NDF: 118975.0/73

In: 22.323 $\pm$ 0.003 χ^2 /NDF:91973.5/57

Out: 22.499 $\pm$ 0.003 χ^2 /NDF:95959.9/63

All: 22.413 $\pm$ 0.002 χ^2 /NDF: 190297.1/121

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -67.236 ± 40.617 $\chi^2/\text{NDF}: 18.0/34$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -88.358 ± 40.498 $\chi^2/\text{NDF}: 18.0/38$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

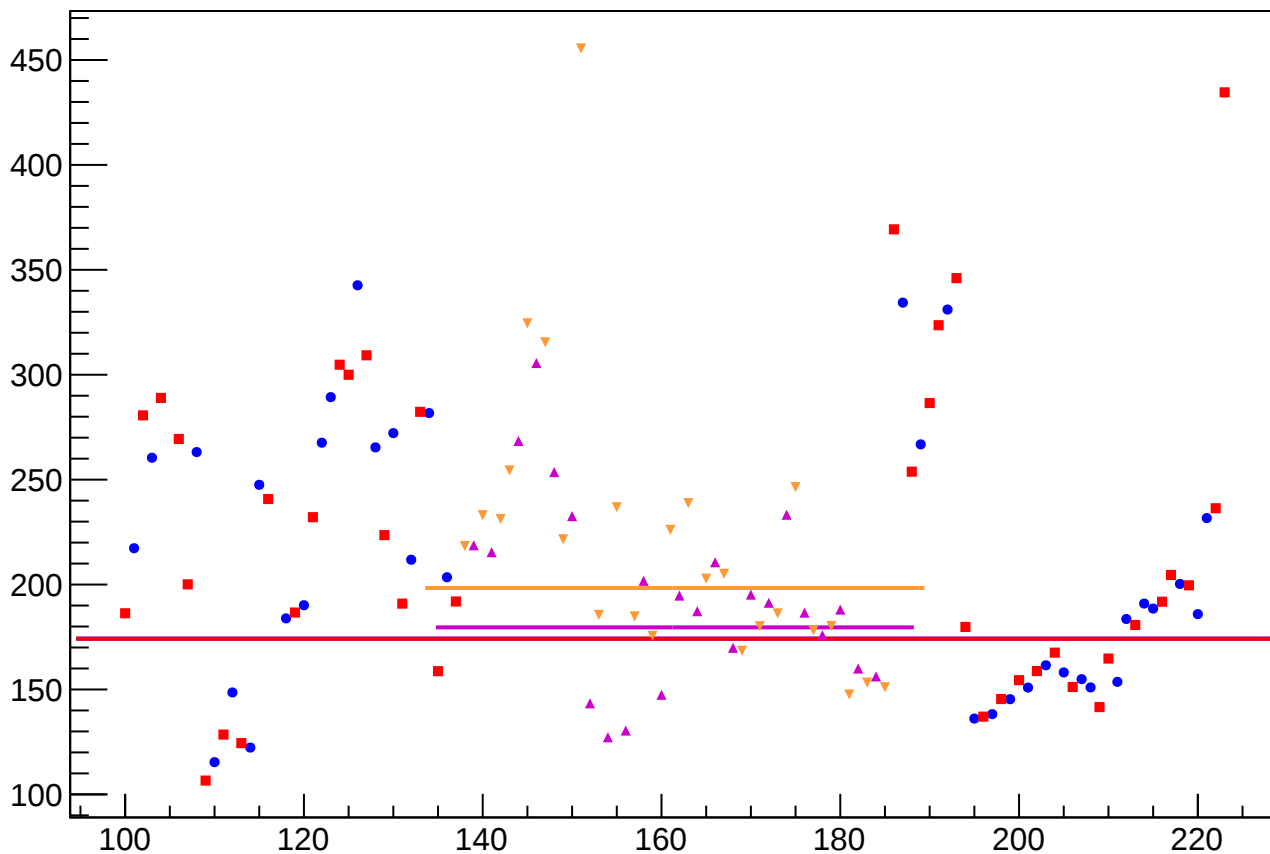
Right: -77.828 ± 28.678 $\chi^2/\text{NDF}: 36.2/73$

In: -21.043 ± 30.177 $\chi^2/\text{NDF}: 27.2/57$

Out: -44.160 ± 30.937 $\chi^2/\text{NDF}: 29.4/63$

All: -32.314 ± 21.602 $\chi^2/\text{NDF}: 56.9/121$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.243+/-0.029 χ^2/NDF : 2343289.4/34

Left Out: 198.344+/-0.034 χ^2/NDF :1757450.6/24

Right Out: 174.179+/-0.029 χ^2/NDF : 3307426.7/38

Left In: 179.605+/-0.032 χ^2/NDF :1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

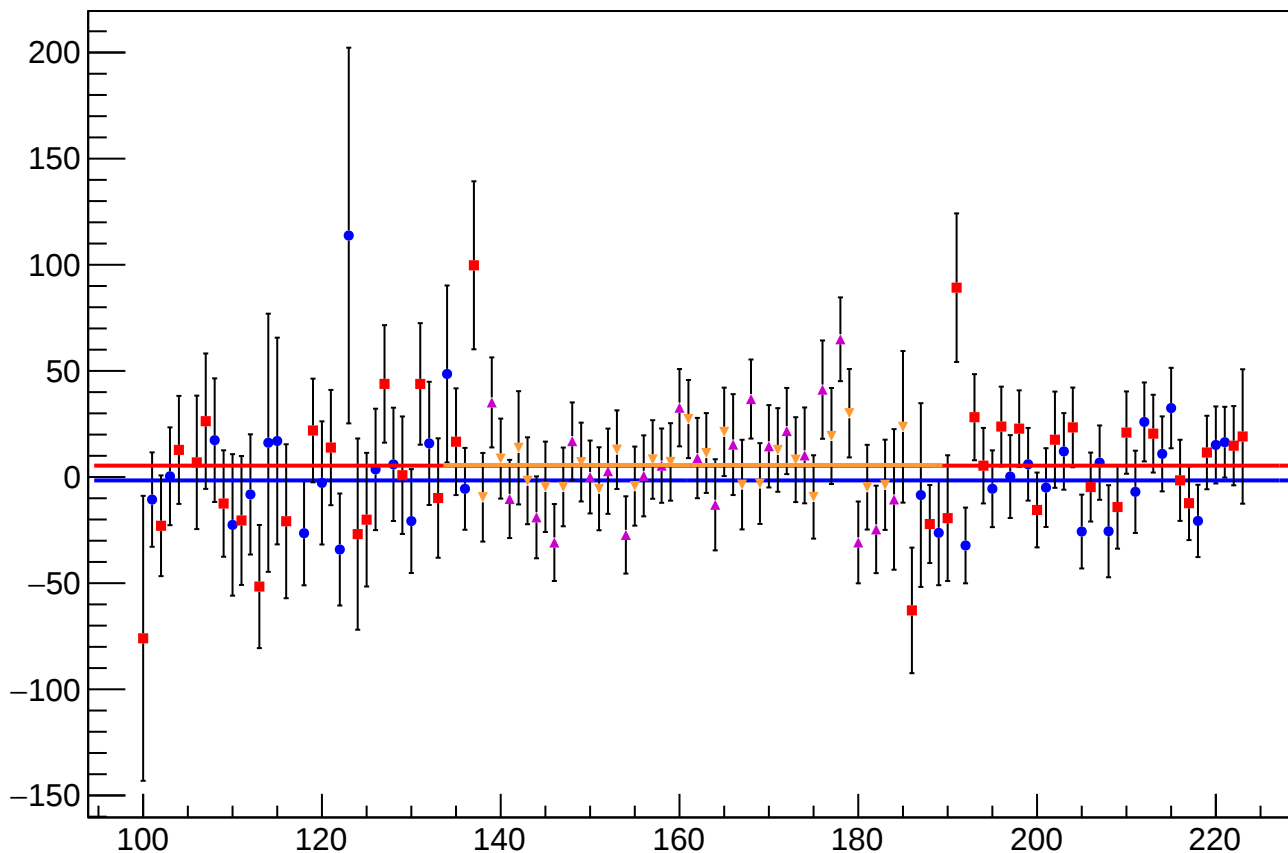
Right: 174.211+/-0.020 χ^2/NDF : 5650718.6/73

In: 176.645+/-0.021 χ^2/NDF :3934649.5/57

Out: 184.242+/-0.022 χ^2/NDF :5361406.9/63

All: 180.349+/-0.015 χ^2/NDF : 9357855.7/123

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.592 ± 3.732 $\chi^2/\text{NDF}: 25.6/34$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 5.372 ± 3.705 $\chi^2/\text{NDF}: 44.9/38$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

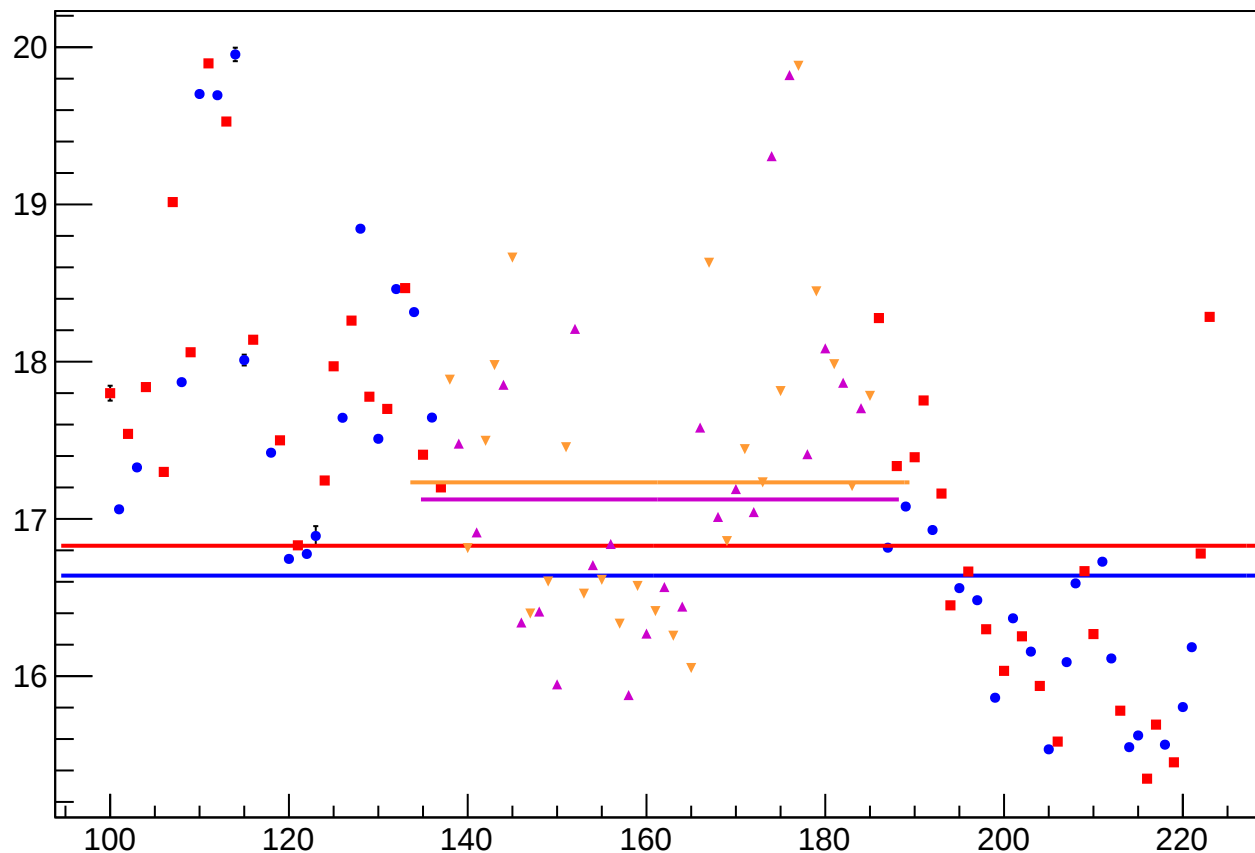
Right: 1.916 ± 2.629 $\chi^2/\text{NDF}: 72.2/73$

In: 1.646 ± 2.766 $\chi^2/\text{NDF}: 63.7/57$

Out: 5.514 ± 2.725 $\chi^2/\text{NDF}: 52.6/63$

All: 3.609 ± 1.941 $\chi^2/\text{NDF}: 117.3/121$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.639 $\pm$ 0.003 χ^2/NDF : 137261.4/34

Left Out: 17.232 $\pm$ 0.003 χ^2/NDF : 98701.0/24

Right Out: 16.829 $\pm$ 0.003 χ^2/NDF : 161497.0/38

Left In: 17.124 $\pm$ 0.003 χ^2/NDF : 100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2/NDF : 200160.6/47

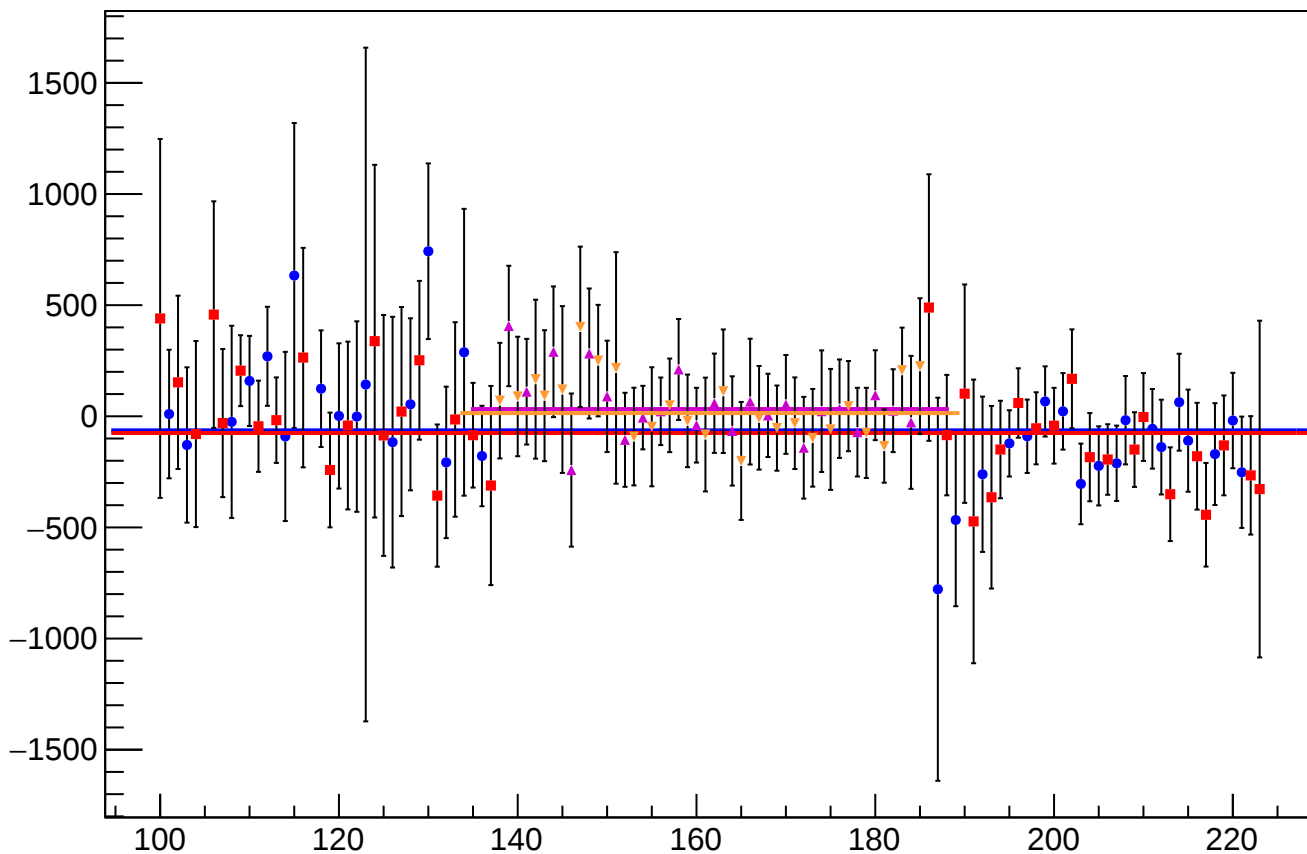
Right: 16.735 $\pm$ 0.002 χ^2/NDF : 301366.2/73

In: 16.858 $\pm$ 0.002 χ^2/NDF : 253182.9/57

Out: 17.014 $\pm$ 0.002 χ^2/NDF : 271063.6/63

All: 16.937 $\pm$ 0.001 χ^2/NDF : 527500.9/121

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.342 ± 40.852 $\chi^2/\text{NDF}: 18.1/34$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -75.133 ± 40.770 $\chi^2/\text{NDF}: 18.5/38$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

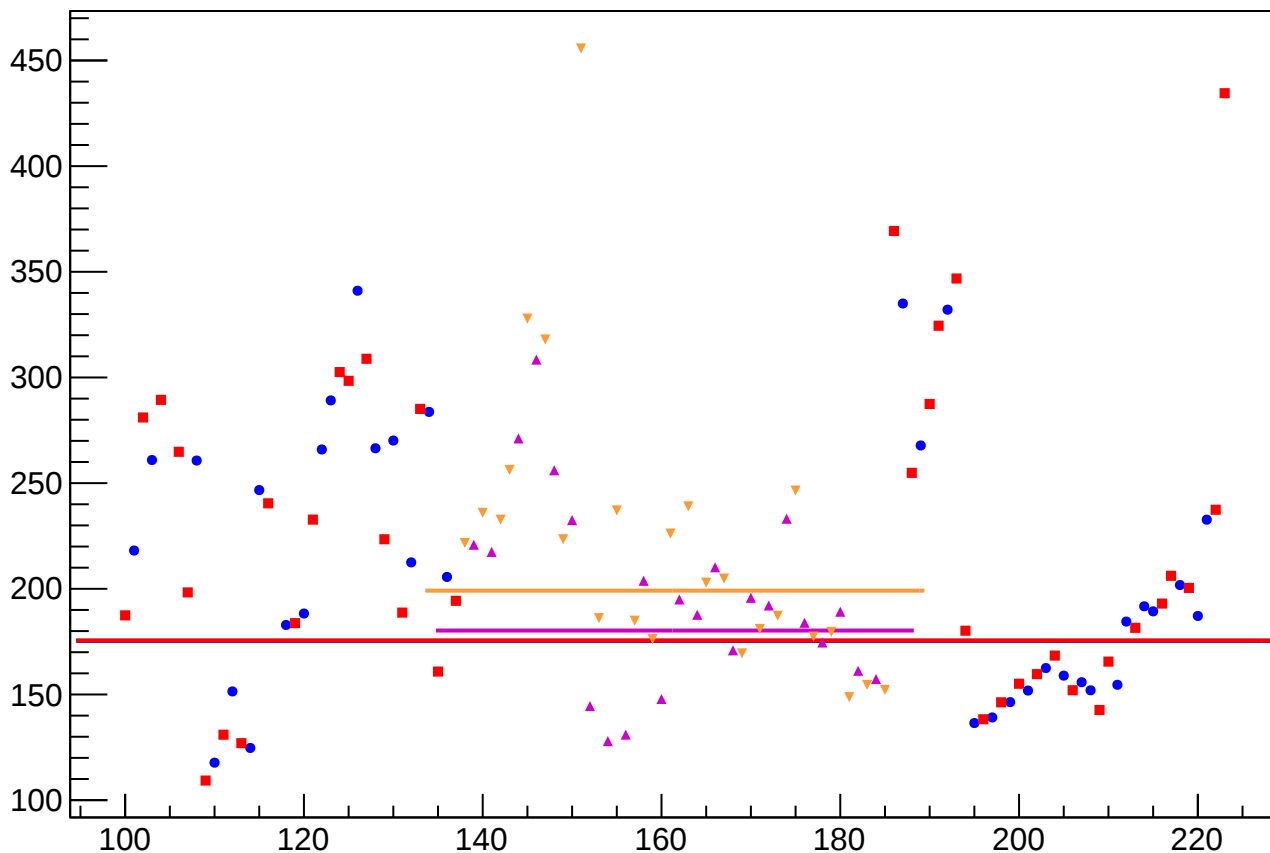
Right: -69.249 ± 28.858 $\chi^2/\text{NDF}: 36.6/73$

In: -20.270 ± 30.322 $\chi^2/\text{NDF}: 27.3/57$

Out: -37.743 ± 31.109 $\chi^2/\text{NDF}: 27.4/63$

All: -28.783 ± 21.714 $\chi^2/\text{NDF}: 54.8/121$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.367 $\pm$ 0.029 χ^2 /NDF: 2292977.5/34

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 175.588 $\pm$ 0.029 χ^2 /NDF: 3207256.7/38

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

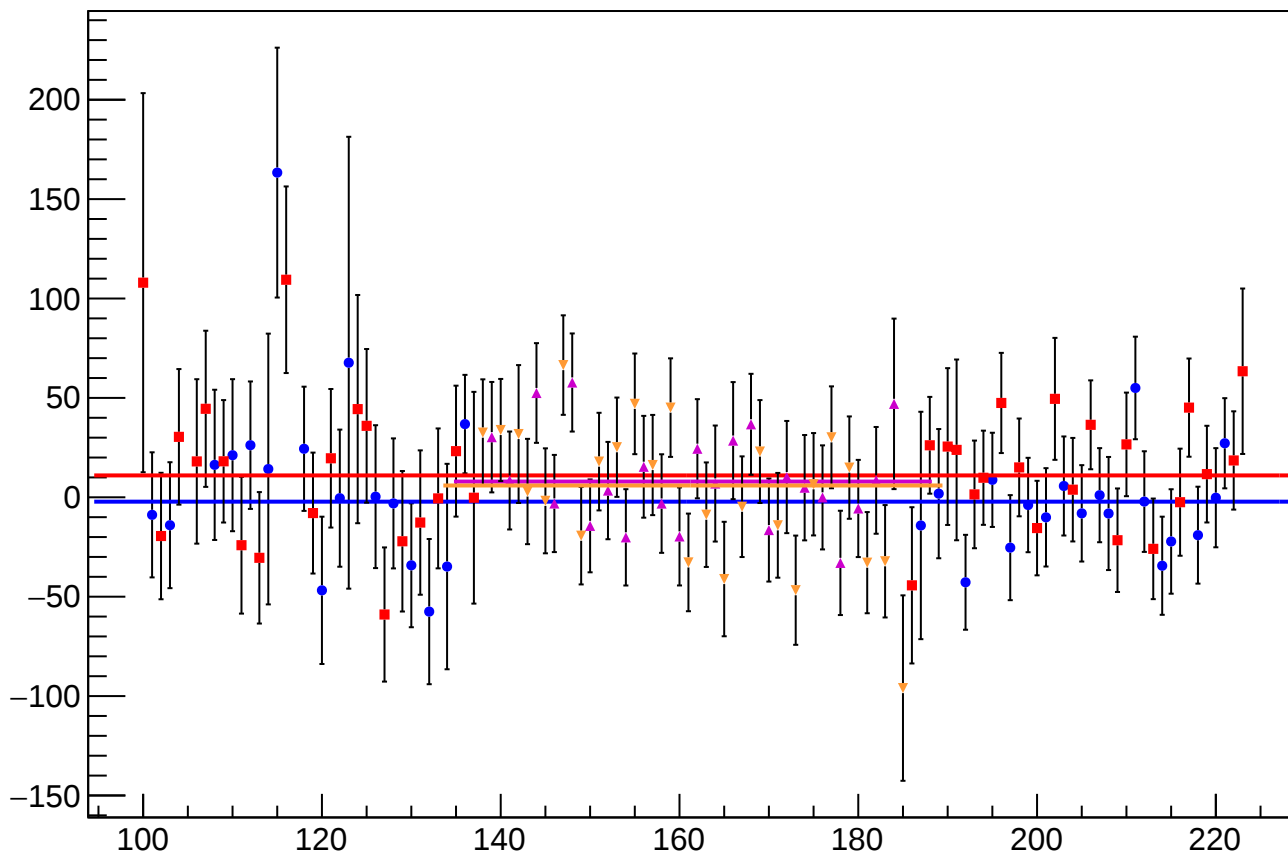
Right: 175.477 $\pm$ 0.020 χ^2 /NDF: 5500263.5/73

In: 177.562 $\pm$ 0.021 χ^2 /NDF:3886398.1/57

Out: 185.426 $\pm$ 0.022 χ^2 /NDF:5246292.1/63

All: 181.393 $\pm$ 0.015 χ^2 /NDF: 9198216.8/123

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.195 ± 4.979 χ^2/NDF : 31.0/34

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 11.007 ± 4.913 χ^2/NDF : 34.1/38

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

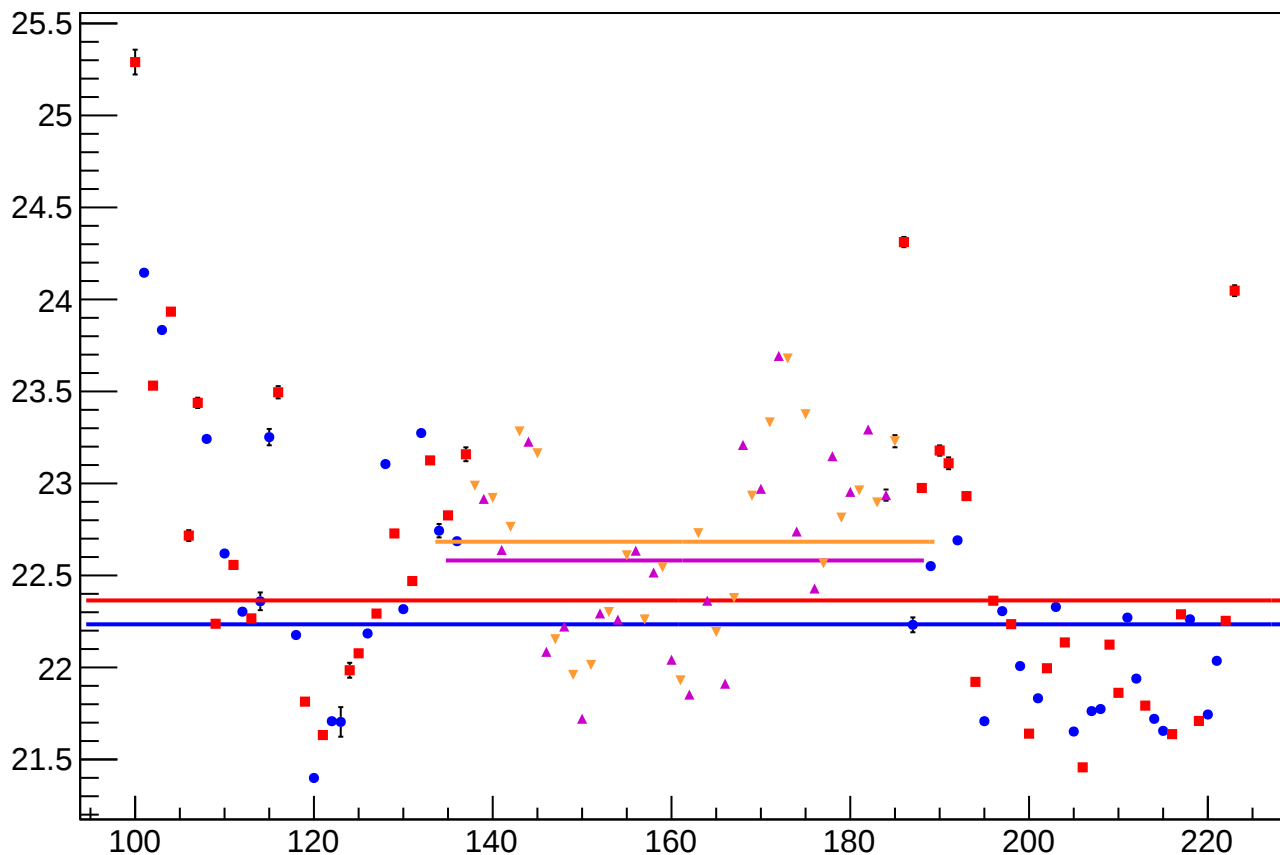
Right: 4.493 ± 3.497 χ^2/NDF : 68.7/73

In: 2.430 ± 3.667 χ^2/NDF : 51.6/57

Out: 8.657 ± 3.598 χ^2/NDF : 70.7/63

All: 5.602 ± 2.568 χ^2/NDF : 123.8/121

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.234+/-0.004 χ^2/NDF : 28266.0/34

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.364+/-0.003 χ^2/NDF : 38423.7/38

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

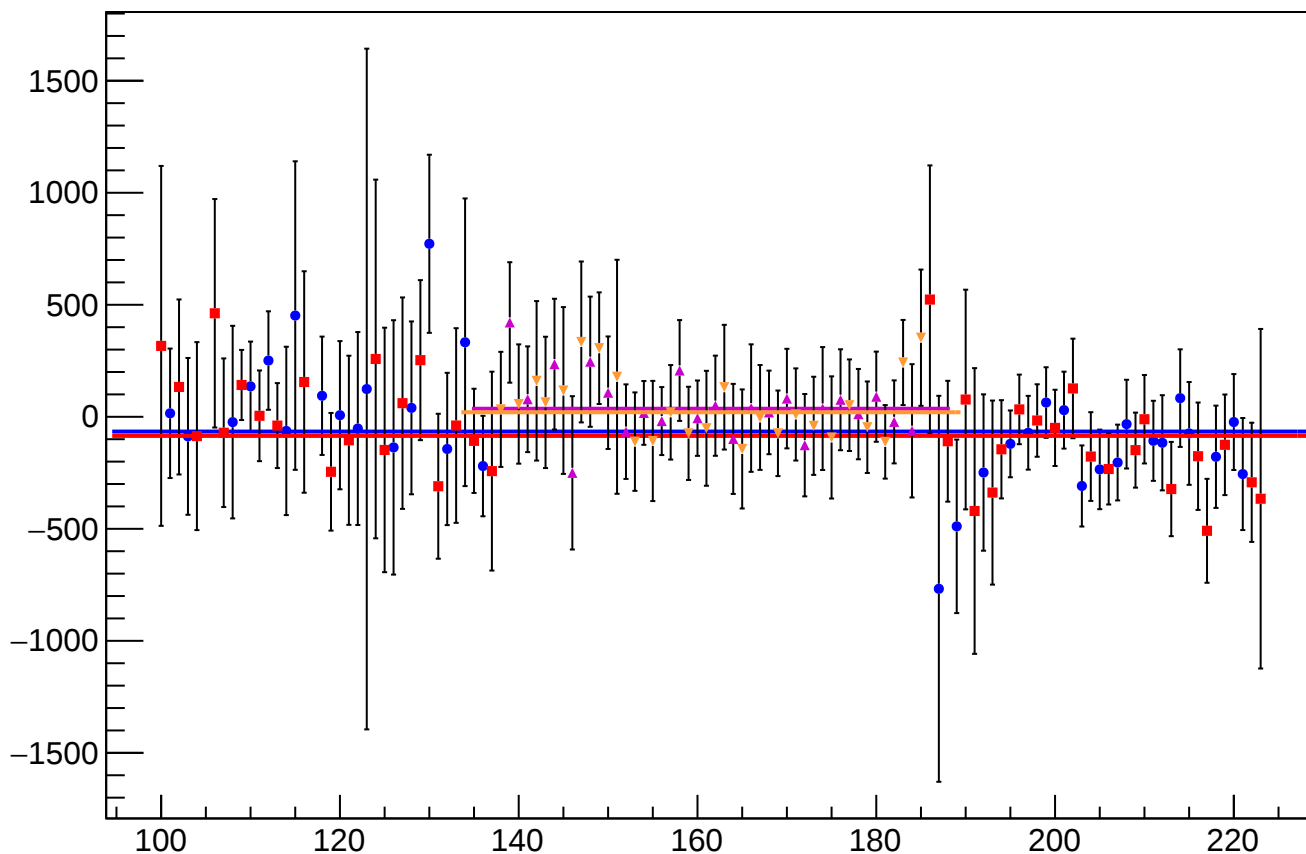
Right: 22.300+/-0.002 χ^2/NDF : 67378.3/73

In: 22.393+/-0.003 χ^2/NDF : 50613.5/57

Out: 22.512+/-0.003 χ^2/NDF : 58652.9/63

All: 22.454+/-0.002 χ^2/NDF : 110338.8/121

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.870 ± 40.740 $\chi^2/\text{NDF}: 17.7/34$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -85.244 ± 40.608 $\chi^2/\text{NDF}: 17.0/38$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

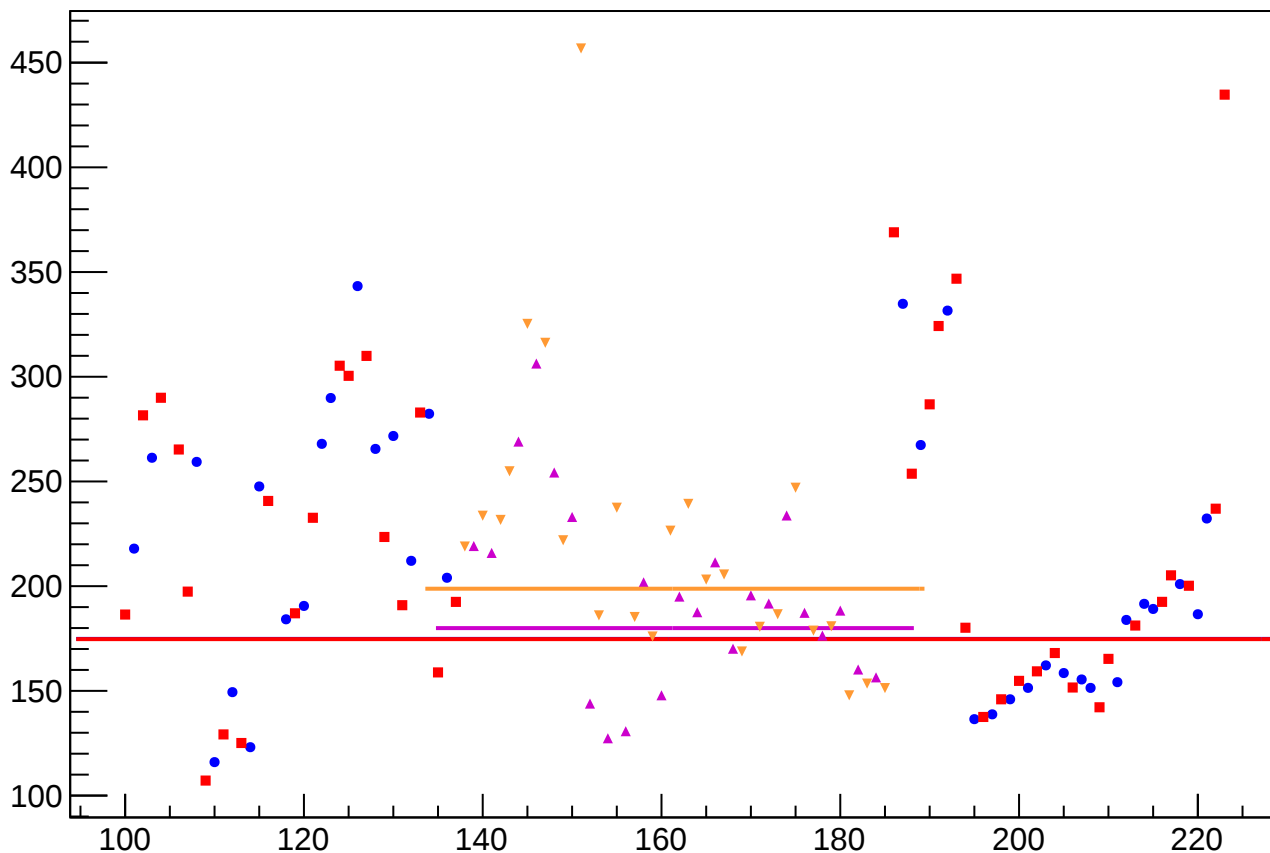
Right: -75.588 ± 28.760 $\chi^2/\text{NDF}: 34.8/73$

In: -20.187 ± 30.256 $\chi^2/\text{NDF}: 26.6/57$

Out: -41.266 ± 31.015 $\chi^2/\text{NDF}: 27.5/63$

All: -30.466 ± 21.657 $\chi^2/\text{NDF}: 54.3/121$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.817 $\pm$ 0.029 χ^2 /NDF: 2324183.0/34

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 174.710 $\pm$ 0.029 χ^2 /NDF: 3280648.3/38

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

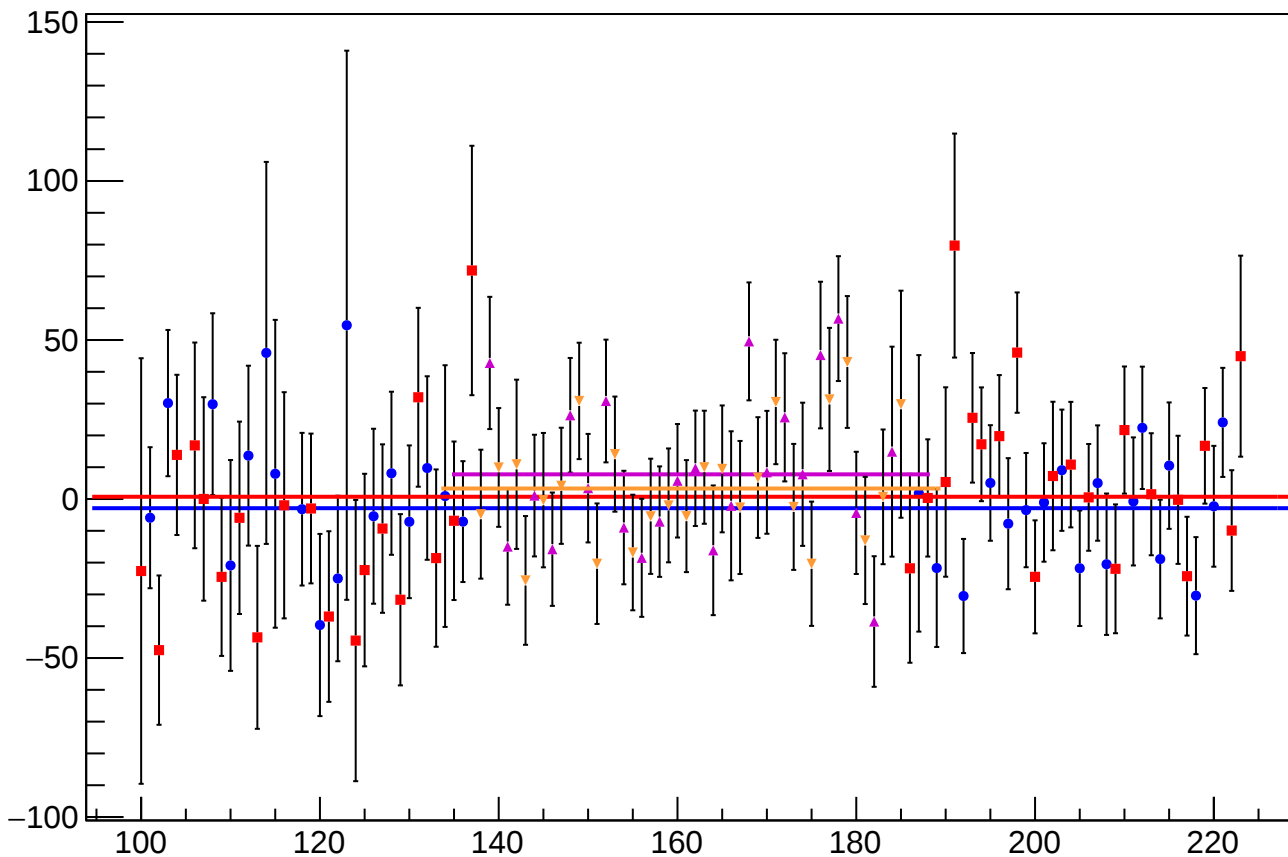
Right: 174.763 $\pm$ 0.020 χ^2 /NDF: 5604838.2/73

In: 177.129 $\pm$ 0.021 χ^2 /NDF:3914433.1/57

Out: 184.741 $\pm$ 0.022 χ^2 /NDF:5332011.2/63

All: 180.841 $\pm$ 0.015 χ^2 /NDF: 9308169.2/123

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.885 ± 3.810 $\chi^2/\text{NDF}: 21.2/34$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.709 ± 3.763 $\chi^2/\text{NDF}: 42.8/38$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

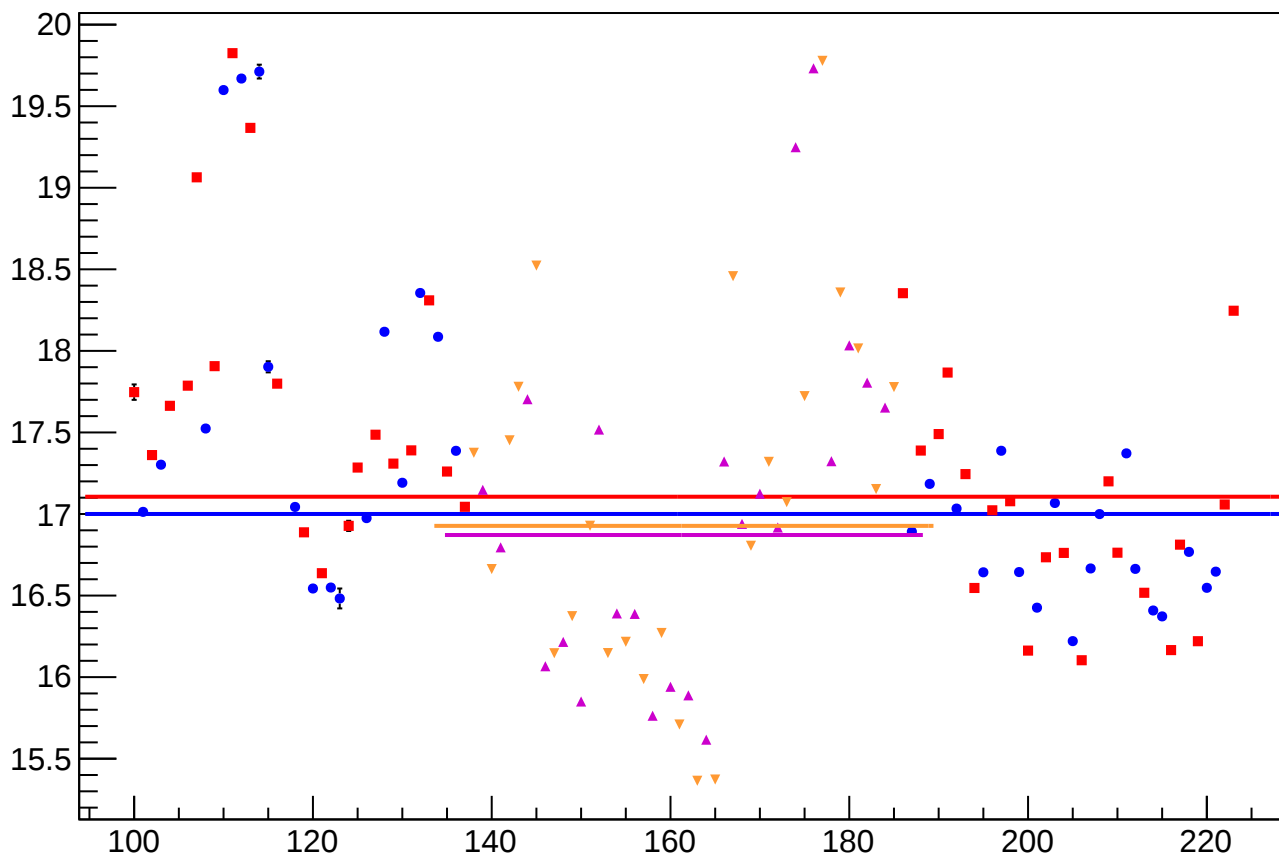
Right: -1.065 ± 2.677 $\chi^2/\text{NDF}: 64.5/73$

In: 2.098 ± 2.779 $\chi^2/\text{NDF}: 59.1/57$

Out: 1.944 ± 2.726 $\chi^2/\text{NDF}: 61.8/63$

All: 2.019 ± 1.946 $\chi^2/\text{NDF}: 120.9/121$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.000 $\pm$ 0.003 χ^2 /NDF: 63927.7/34

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.106 $\pm$ 0.003 χ^2 /NDF: 82526.6/38

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

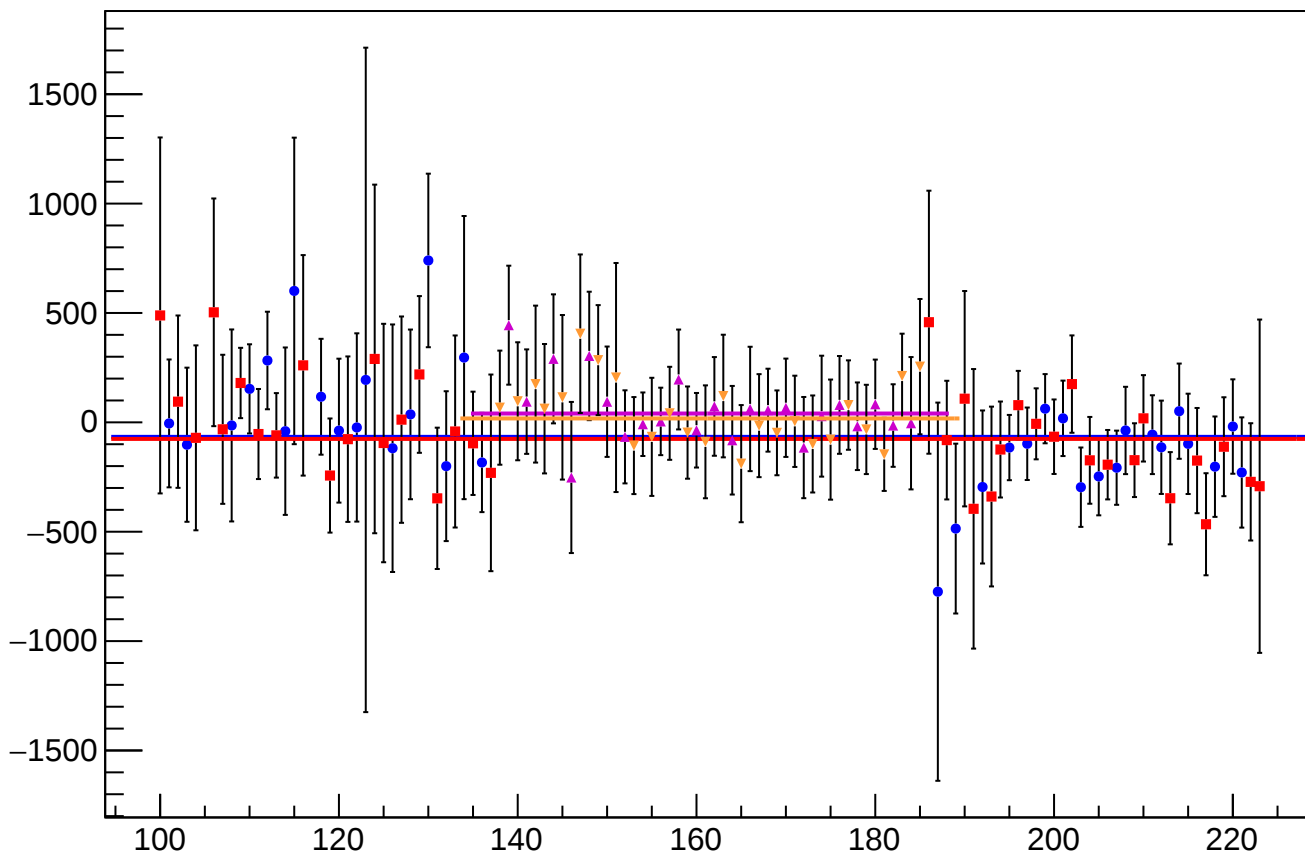
Right: 17.054 $\pm$ 0.002 χ^2 /NDF: 147235.4/73

In: 16.940 $\pm$ 0.002 χ^2 /NDF:182992.8/57

Out: 17.021 $\pm$ 0.002 χ^2 /NDF:223203.9/63

All: 16.981 $\pm$ 0.001 χ^2 /NDF: 407068.0/121

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -66.350 ± 40.964 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -75.718 ± 40.901 $\chi^2/\text{NDF}: 17.8/38$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

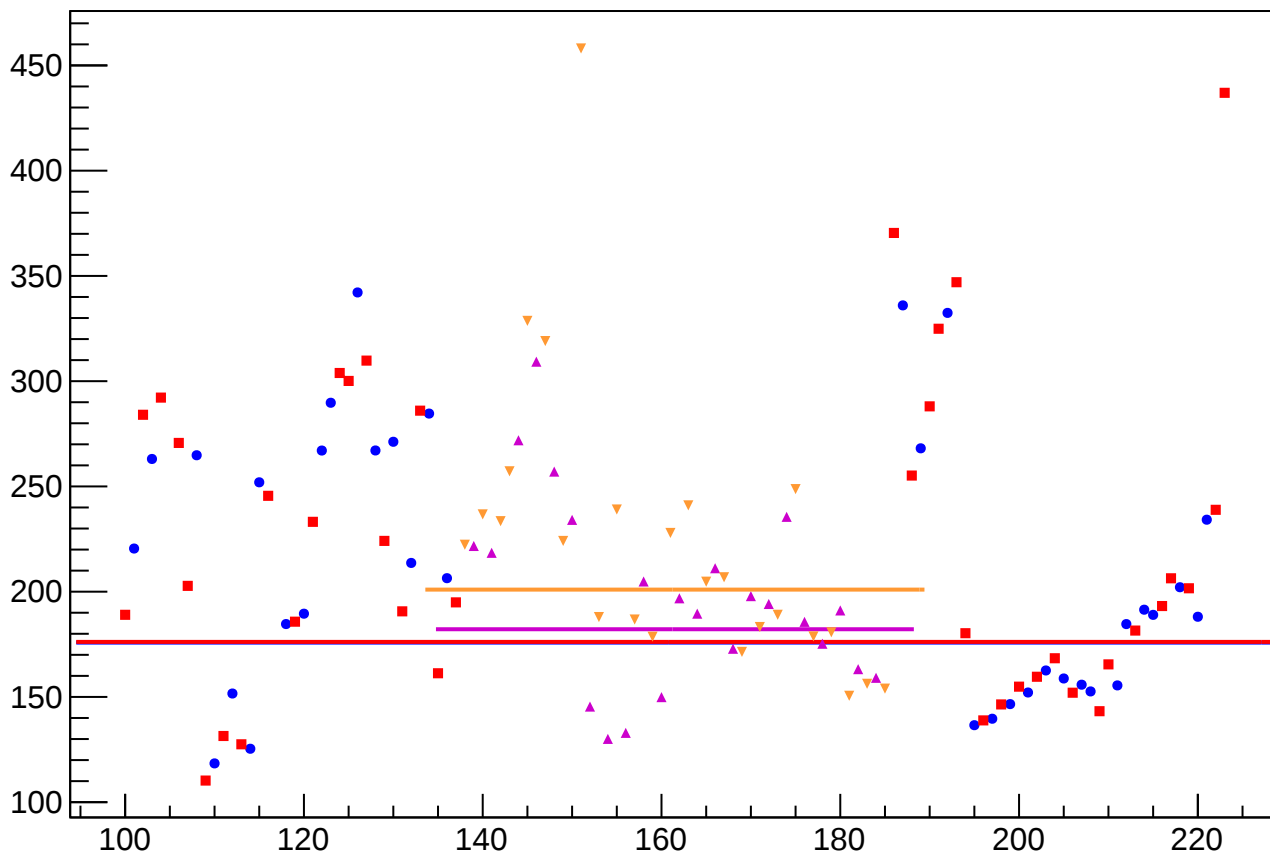
Right: -71.041 ± 28.944 $\chi^2/\text{NDF}: 35.7/73$

In: -18.798 ± 30.500 $\chi^2/\text{NDF}: 27.6/57$

Out: -36.883 ± 31.280 $\chi^2/\text{NDF}: 27.4/63$

All: -27.613 ± 21.837 $\chi^2/\text{NDF}: 55.1/121$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.825+/-0.029 χ^2/NDF : 2307699.8/34

Left Out: 200.985+/-0.034 χ^2/NDF :1727291.4/24

Right Out: 176.148+/-0.029 χ^2/NDF : 3219791.6/38

Left In: 182.158+/-0.032 χ^2/NDF :1535922.8/22

Left: 191.001+/-0.024 χ^2/NDF : 3422724.8/47

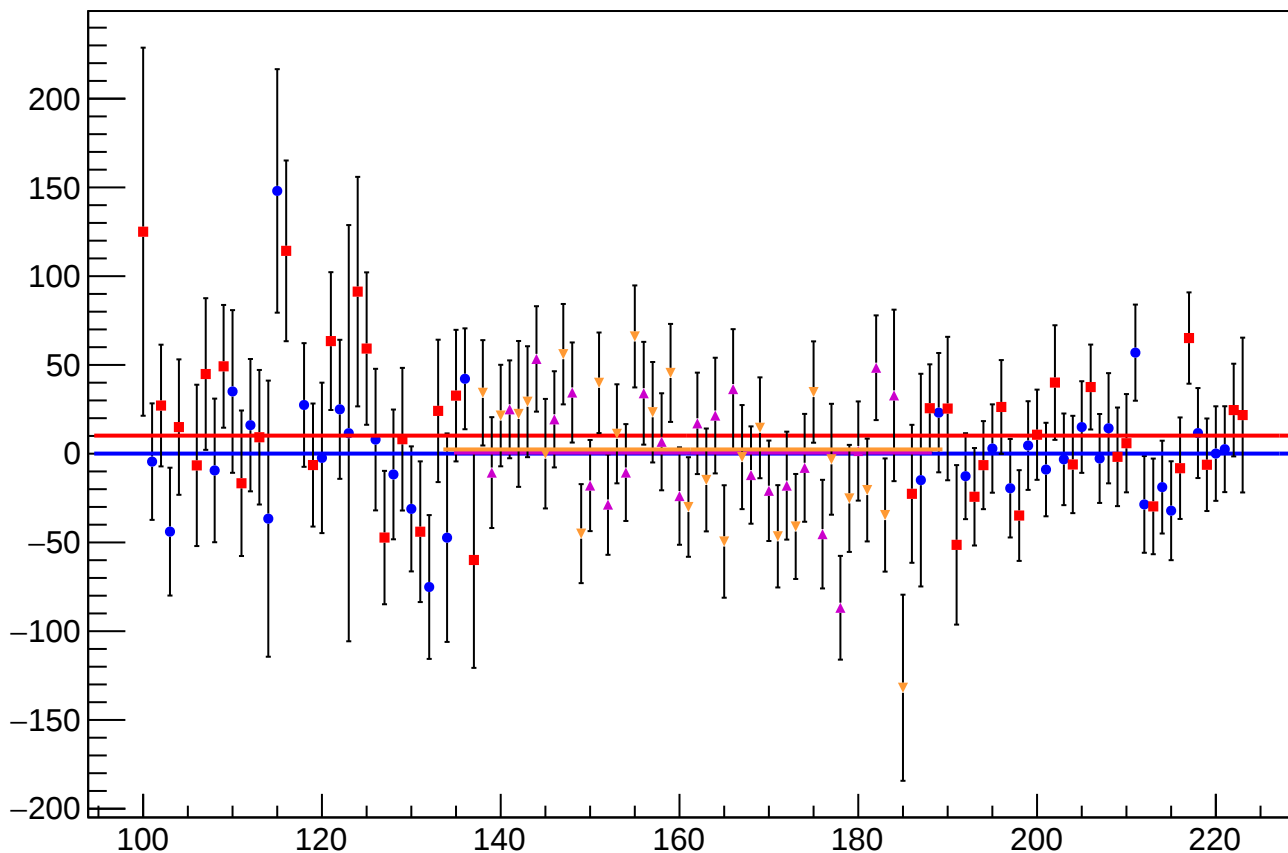
Right: 175.986+/-0.020 χ^2/NDF : 5527553.7/73

In: 178.647+/-0.022 χ^2/NDF :3864927.9/57

Out: 186.459+/-0.022 χ^2/NDF :5253261.5/63

All: 182.454+/-0.015 χ^2/NDF : 9182129.4/123

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.053+/-5.352 χ^2/NDF : 25.1/34

Left Out: 2.390+/-5.980 χ^2/NDF : 39.1/24

Right Out: 10.179+/-5.261 χ^2/NDF : 38.5/38

Left In: 0.641+/-6.091 χ^2/NDF : 27.3/22

Left: 1.531+/-4.267 χ^2/NDF : 66.5/47

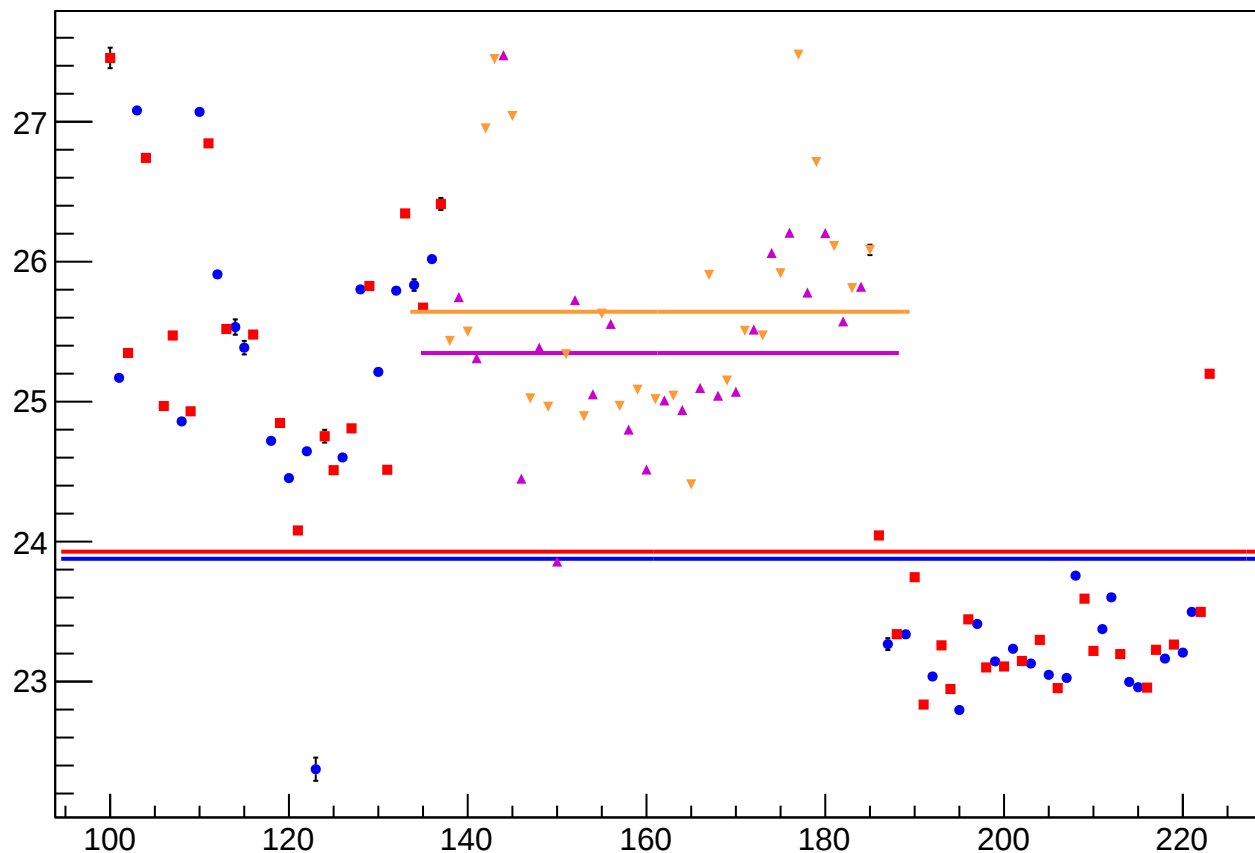
Right: 5.203+/-3.752 χ^2/NDF : 65.4/73

In: 0.309+/-4.021 χ^2/NDF : 52.4/57

Out: 6.780+/-3.950 χ^2/NDF : 78.5/63

All: 3.602+/-2.818 χ^2/NDF : 132.3/121

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.877 $\pm$ 0.004 χ^2 /NDF: 92536.5/34

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 23.928 $\pm$ 0.004 χ^2 /NDF: 88148.7/38

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

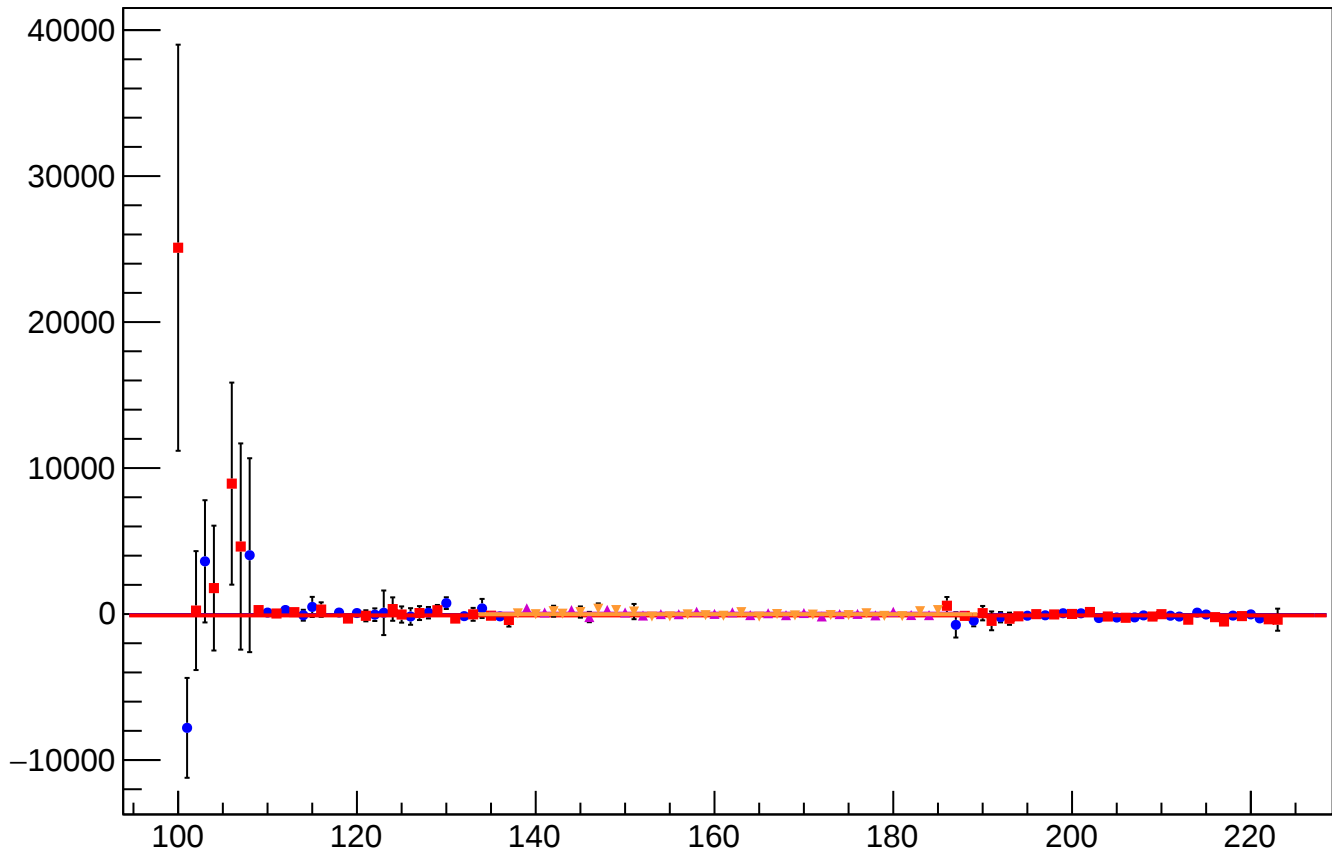
Right: 23.903 $\pm$ 0.003 χ^2 /NDF: 180776.9/73

In: 24.518 $\pm$ 0.003 χ^2 /NDF:187673.7/57

Out: 24.676 $\pm$ 0.003 χ^2 /NDF:215591.3/63

All: 24.598 $\pm$ 0.002 χ^2 /NDF: 404842.4/121

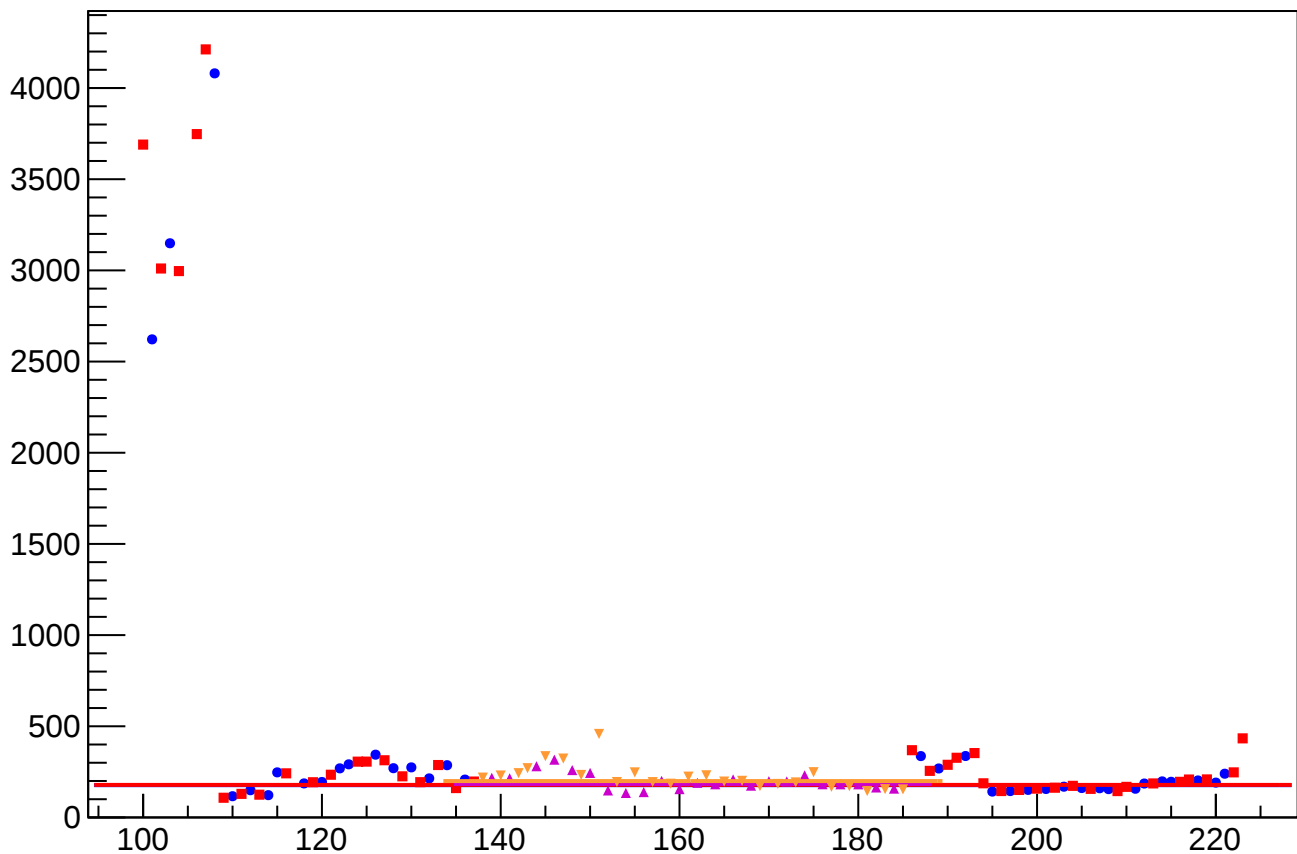
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.721 ± 42.631 χ^2/NDF : 23.2/34
 Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24
 Right Out: -92.911 ± 43.175 χ^2/NDF : 25.6/38
 Left In: 27.098 ± 45.999 χ^2/NDF : 7.2/22

Left: 8.758 ± 33.298 χ^2/NDF : 15.5/47
 Right: -78.638 ± 30.335 χ^2/NDF : 49.0/73
 In: -22.295 ± 31.267 χ^2/NDF : 32.5/57
 Out: -56.691 ± 32.178 χ^2/NDF : 35.1/63
 All: -39.000 ± 22.425 χ^2/NDF : 68.3/121

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.088+/-0.030 χ^2/NDF : 4734011.5/34

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 178.497+/-0.031 χ^2/NDF : 5858178.4/38

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

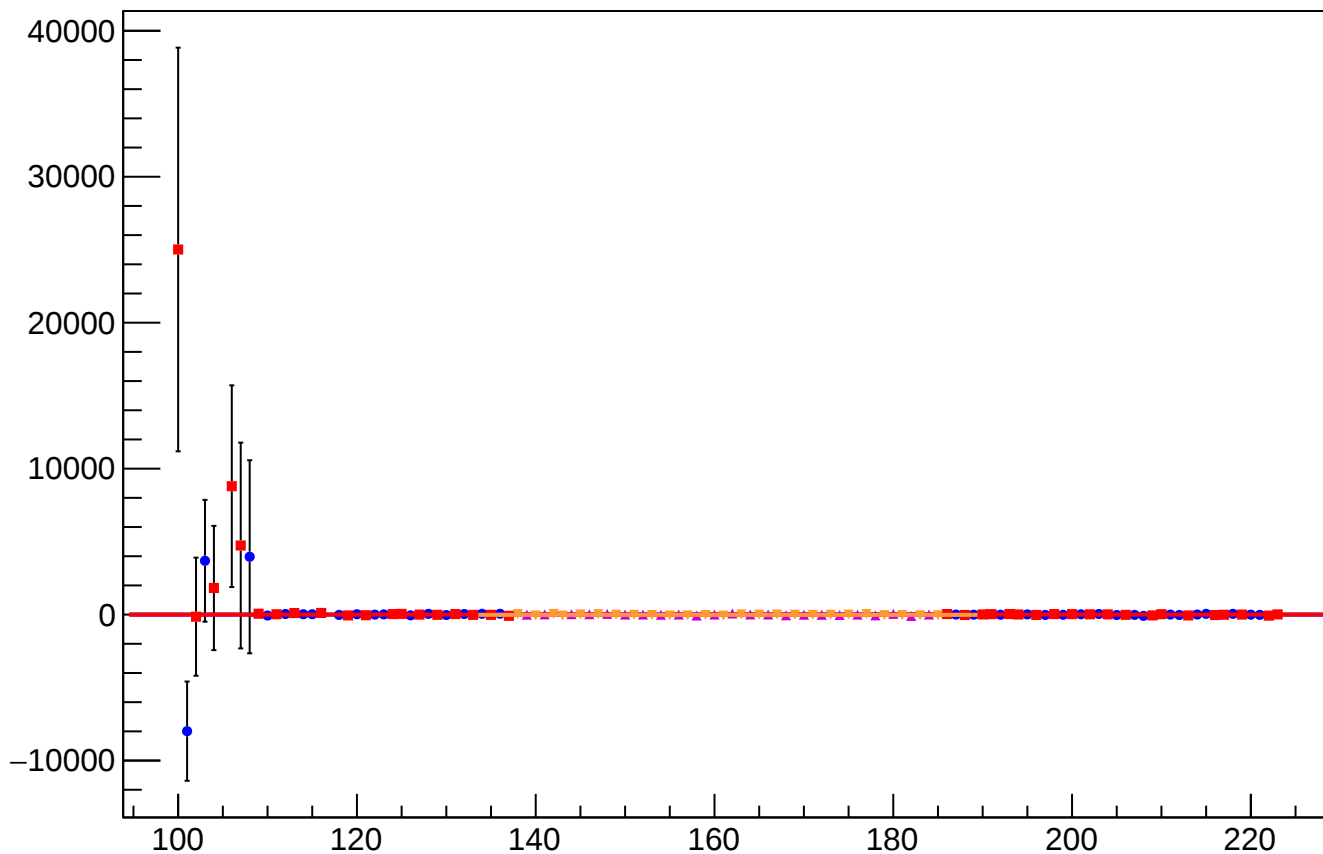
Right: 177.784+/-0.021 χ^2/NDF : 10593267.7/73

In: 180.192+/-0.022 χ^2/NDF : 6169821.4/57

Out: 187.806+/-0.023 χ^2/NDF : 7945181.7/63

All: 183.890+/-0.016 χ^2/NDF : 14172599.1/12

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.301+/-6.426 χ^2/NDF : 35.8/34

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 1.270+/-6.434 χ^2/NDF : 43.4/38

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

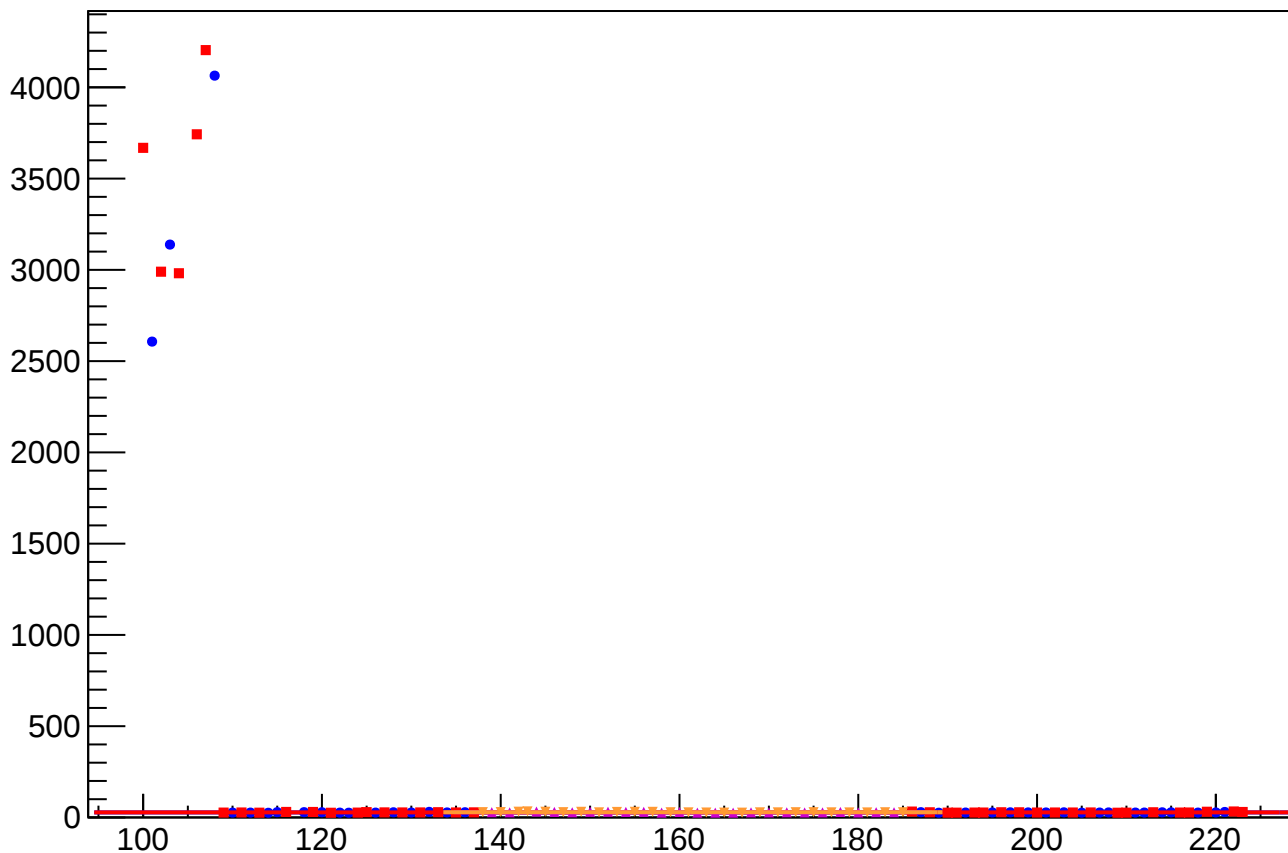
Right: 1.786+/-4.547 χ^2/NDF : 79.2/73

In: 1.821+/-4.705 χ^2/NDF : 67.9/57

Out: -8.026+/-4.642 χ^2/NDF : 69.5/63

All: -3.169+/-3.304 χ^2/NDF : 139.6/121

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.569 $\pm$ 0.005 χ^2 /NDF: 3059359.7/34

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.762 $\pm$ 0.005 χ^2 /NDF: 3579768.1/38

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

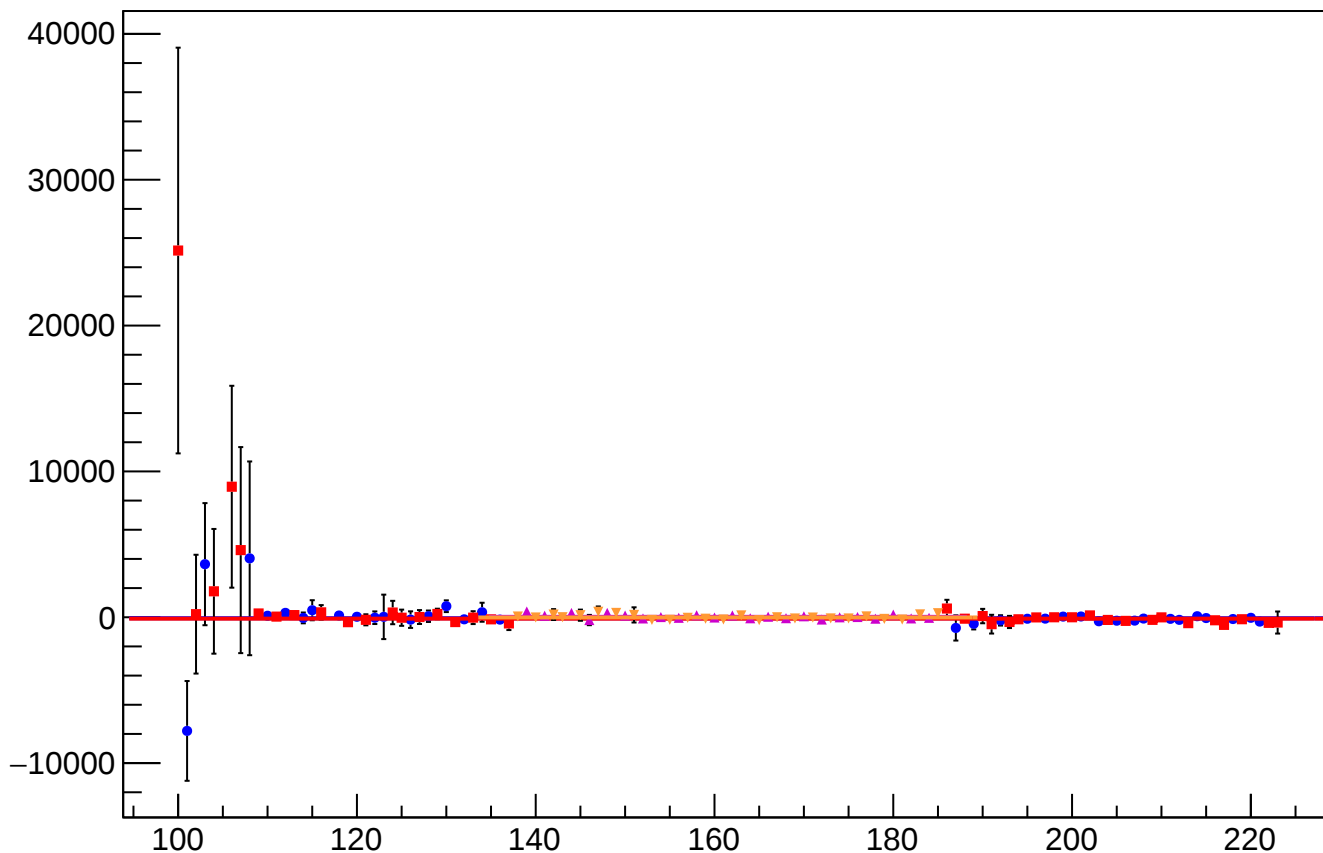
Right: 27.665 $\pm$ 0.003 χ^2 /NDF: 6640028.1/73

In: 28.083 $\pm$ 0.003 χ^2 /NDF: 3210767.0/57

Out: 28.208 $\pm$ 0.003 χ^2 /NDF: 3710364.7/63

All: 28.146 $\pm$ 0.002 χ^2 /NDF: 6921856.8/121

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -66.503 $\pm$ 42.501 χ^2 /NDF: 23.4/34

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF:8.8/24

Right Out: -95.722 $\pm$ 43.051 χ^2 /NDF: 26.7/38

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF:7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

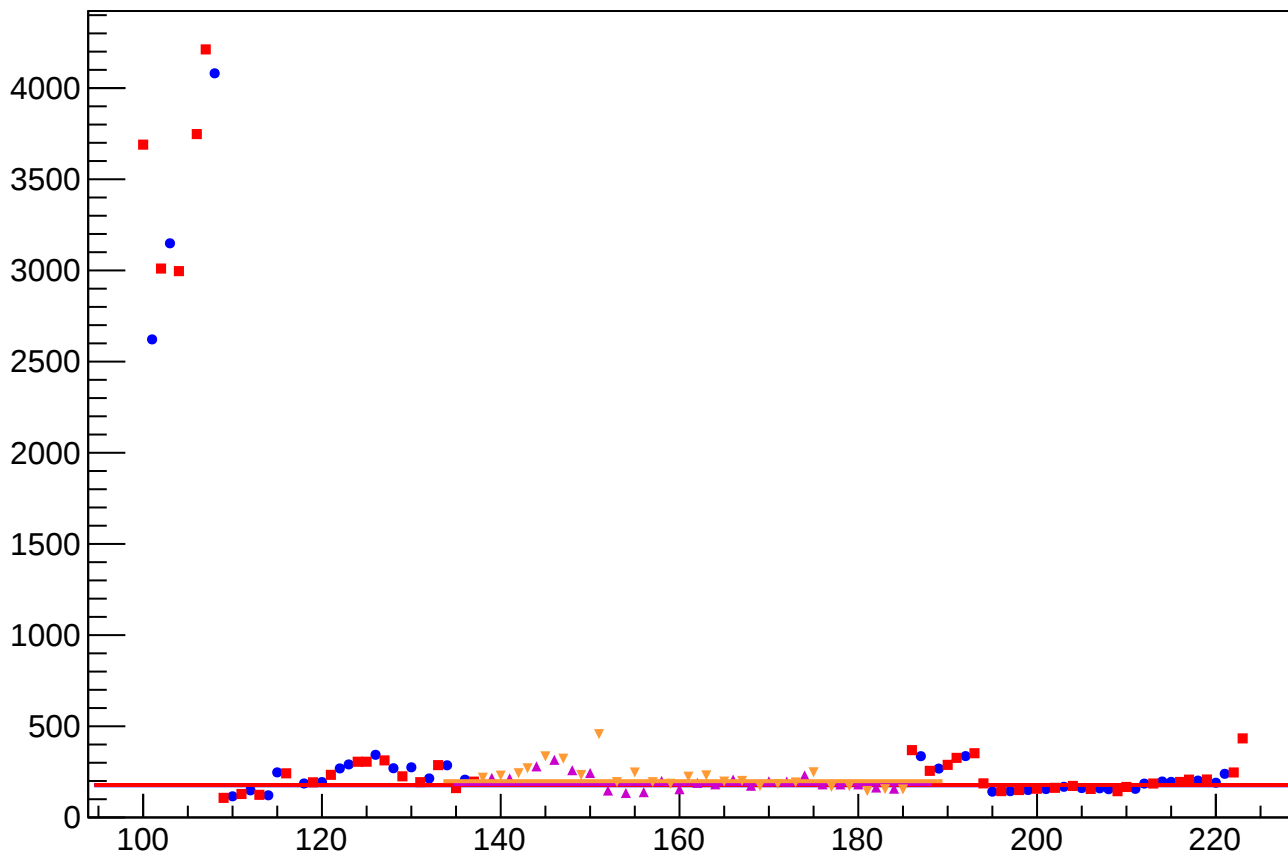
Right: -80.925 $\pm$ 30.245 χ^2 /NDF: 50.4/73

In: -23.216 $\pm$ 31.187 χ^2 /NDF:33.1/57

Out: -59.366 $\pm$ 32.095 χ^2 /NDF:37.2/63

All: -40.773 $\pm$ 22.367 χ^2 /NDF: 70.9/121

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.511 $\pm$ 0.030 χ^2 /NDF: 4747812.9/34

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 177.935 $\pm$ 0.030 χ^2 /NDF: 5877702.1/38

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

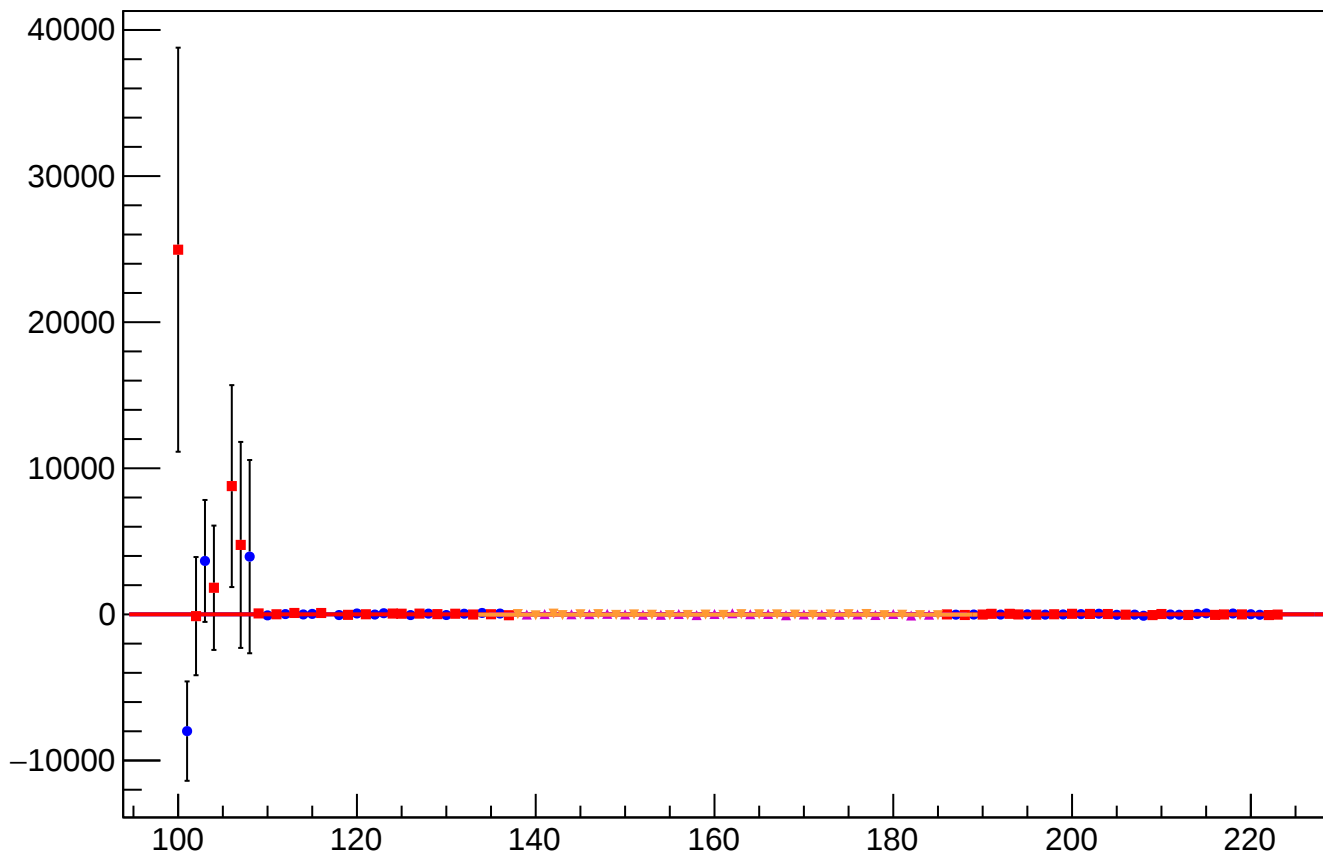
Right: 177.214 $\pm$ 0.021 χ^2 /NDF: 10626622.2/73

In: 179.710 $\pm$ 0.022 χ^2 /NDF:6184698.8/57

Out: 187.290 $\pm$ 0.023 χ^2 /NDF:7967981.5/63

All: 183.391 $\pm$ 0.016 χ^2 /NDF: 14210067.8/12

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.896+/-6.382 χ^2/NDF : 45.8/34

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 4.484+/-6.401 χ^2/NDF : 36.6/38

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

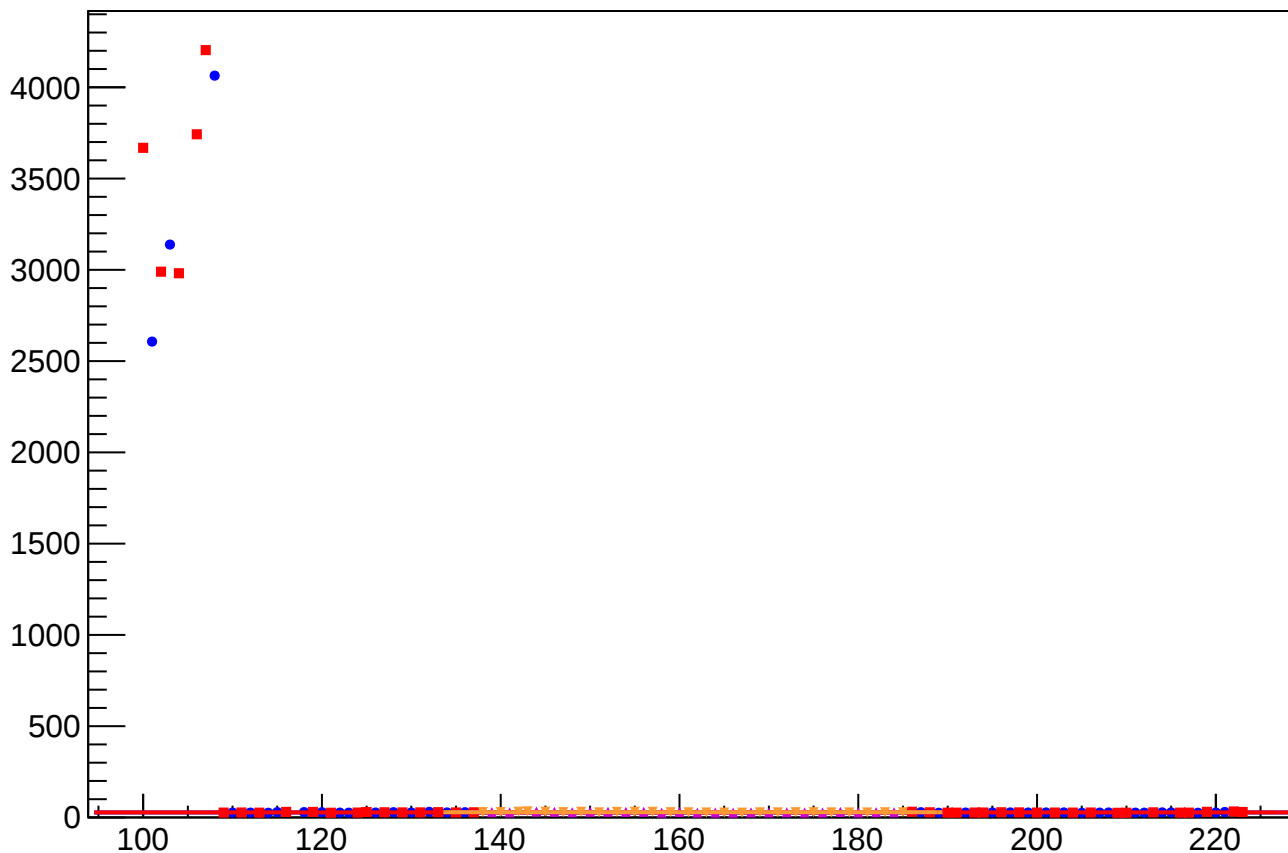
Right: 4.189+/-4.519 χ^2/NDF : 82.4/73

In: 1.882+/-4.697 χ^2/NDF : 72.1/57

Out: -5.160+/-4.639 χ^2/NDF : 57.9/63

All: -1.682+/-3.301 χ^2/NDF : 131.1/121

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.375+/-0.005 χ^2/NDF : 3070587.9/34

Left Out: 28.814+/-0.005 χ^2/NDF :122153.6/24

Right Out: 27.616+/-0.005 χ^2/NDF : 3586854.9/38

Left In: 28.797+/-0.005 χ^2/NDF :128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

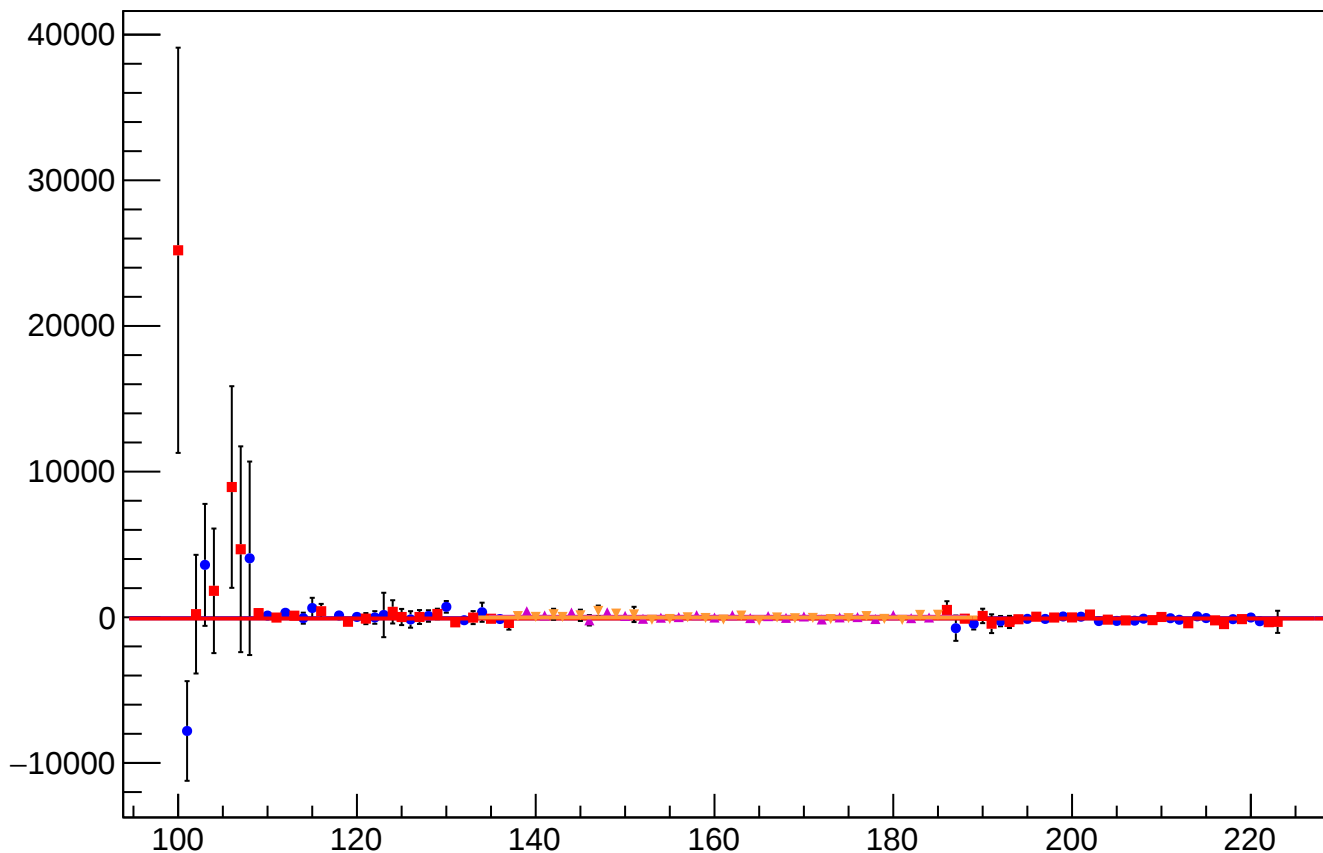
Right: 27.495+/-0.003 χ^2/NDF : 6658865.7/73

In: 28.027+/-0.003 χ^2/NDF :3244392.7/57

Out: 28.185+/-0.003 χ^2/NDF :3742264.1/63

All: 28.107+/-0.002 χ^2/NDF : 6987801.8/121

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.298 ± 42.790 χ^2/NDF : 23.4/34

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: -85.922 ± 43.365 χ^2/NDF : 25.2/38

Left In: 31.477 ± 46.483 χ^2/NDF : 7.8/22

Left: 9.830 ± 33.637 χ^2/NDF : 16.4/47

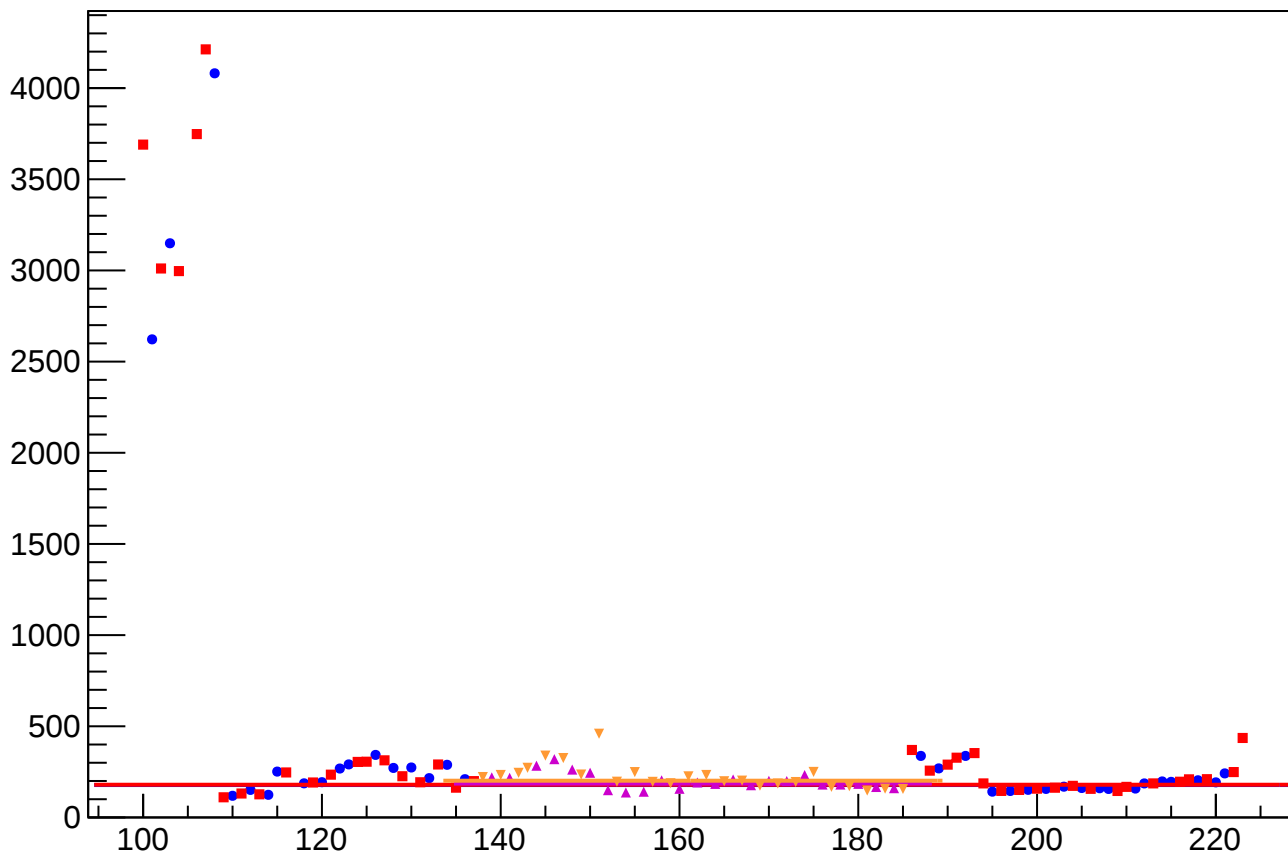
Right: -74.966 ± 30.458 χ^2/NDF : 48.7/73

In: -20.366 ± 31.482 χ^2/NDF : 33.5/57

Out: -54.126 ± 32.396 χ^2/NDF : 34.6/63

All: -36.762 ± 22.577 χ^2/NDF : 68.6/121

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.799+/-0.030 χ^2/NDF : 4715225.6/34

Left Out: 201.503+/-0.034 χ^2/NDF :1854905.1/24

Right Out: 179.405+/-0.031 χ^2/NDF : 5817320.3/38

Left In: 185.878+/-0.033 χ^2/NDF :1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

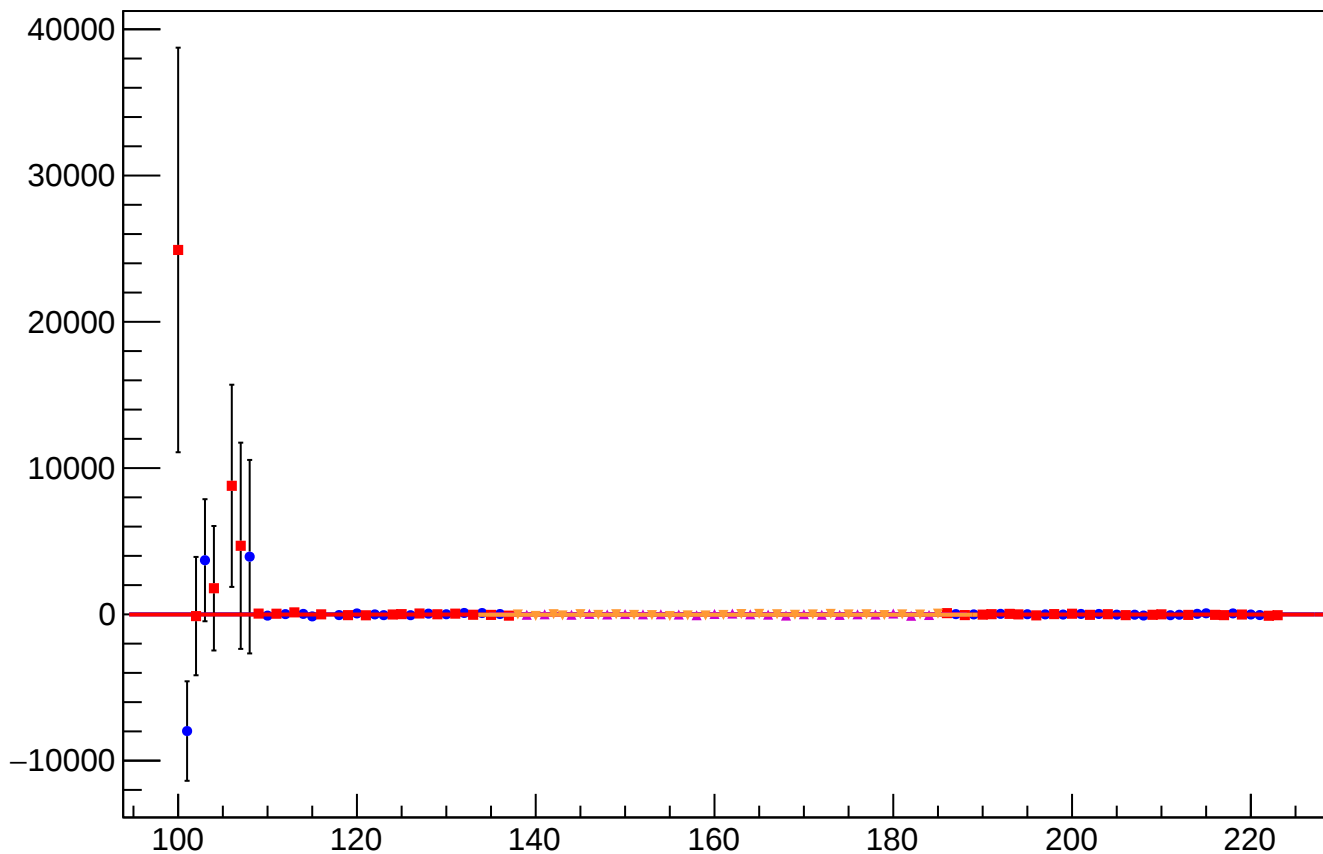
Right: 178.592+/-0.022 χ^2/NDF : 10533935.9/73

In: 181.505+/-0.022 χ^2/NDF :6128808.0/57

Out: 189.170+/-0.023 χ^2/NDF :7901710.5/63

All: 185.228+/-0.016 χ^2/NDF : 14088095.0/12

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.795 ± 7.767 χ^2/NDF : 38.8/34

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: -10.313 ± 7.777 χ^2/NDF : 42.8/38

Left In: -5.924 ± 8.340 χ^2/NDF : 21.0/22

Left: -15.326 ± 5.802 χ^2/NDF : 48.4/47

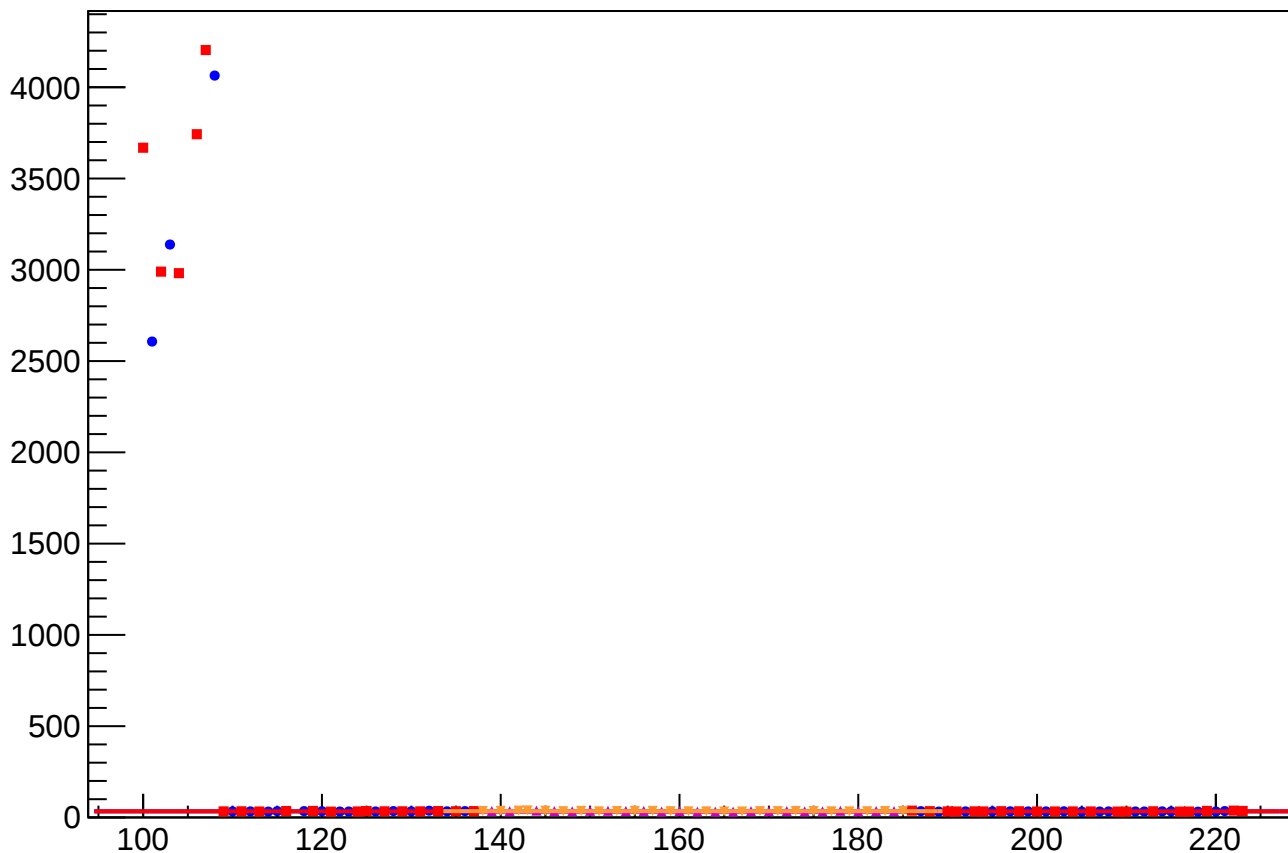
Right: -3.751 ± 5.496 χ^2/NDF : 83.0/73

In: -1.255 ± 5.684 χ^2/NDF : 60.3/57

Out: -16.967 ± 5.602 χ^2/NDF : 69.2/63

All: -9.225 ± 3.990 χ^2/NDF : 133.4/121

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.347 $\pm$ 0.005 χ^2 /NDF: 3029467.1/34

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.613 $\pm$ 0.005 χ^2 /NDF: 3504795.9/38

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

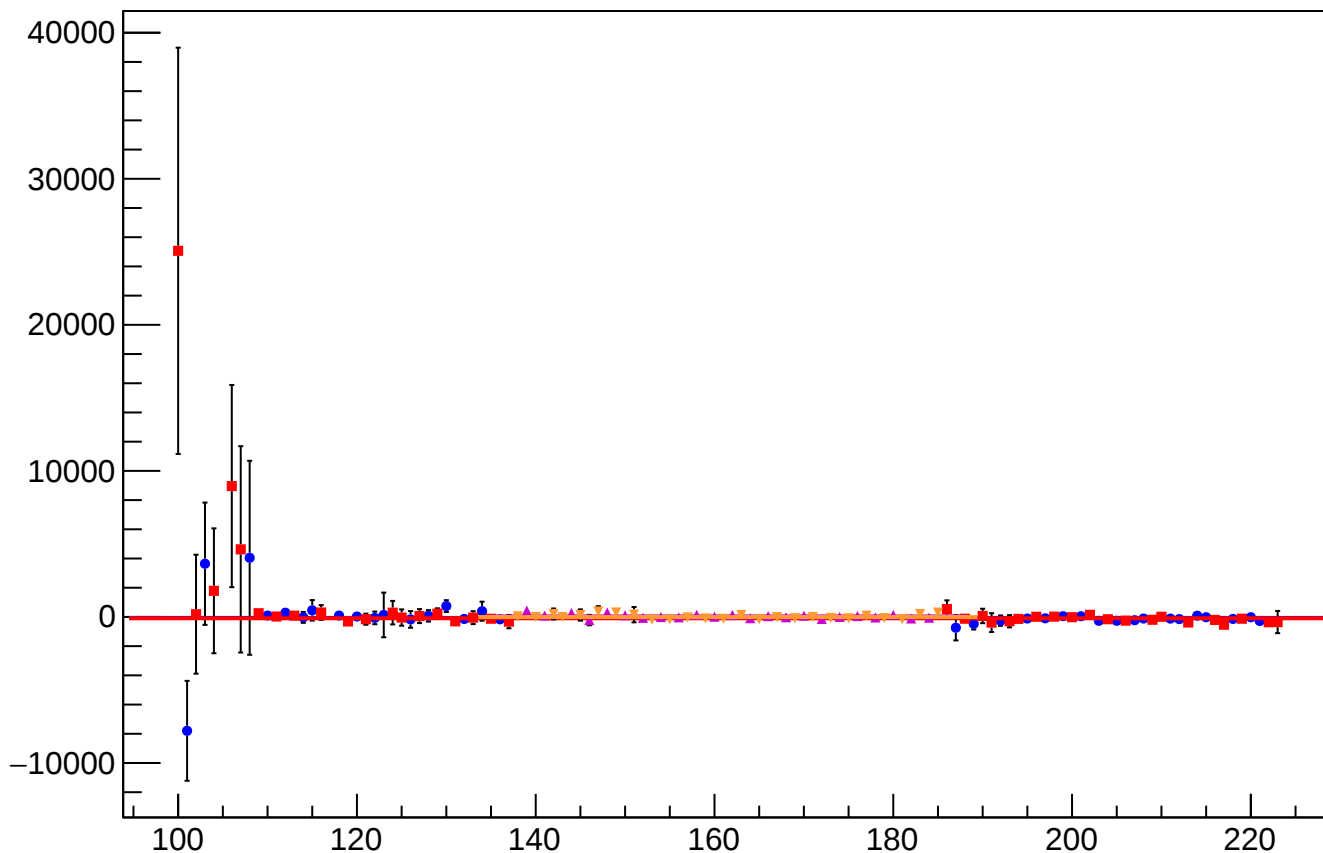
Right: 33.480 $\pm$ 0.004 χ^2 /NDF: 6535438.0/73

In: 33.967 $\pm$ 0.004 χ^2 /NDF: 3116743.9/57

Out: 34.096 $\pm$ 0.004 χ^2 /NDF: 3578712.4/63

All: 34.033 $\pm$ 0.003 χ^2 /NDF: 6695982.8/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -68.009 $\pm$ 42.671 χ^2 /NDF: 23.1/34

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF:8.8/24

Right Out: -92.340 $\pm$ 43.212 χ^2 /NDF: 24.7/38

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF:7.1/22

Left: 14.712 $\pm$ 33.589 χ^2 /NDF: 16.3/47

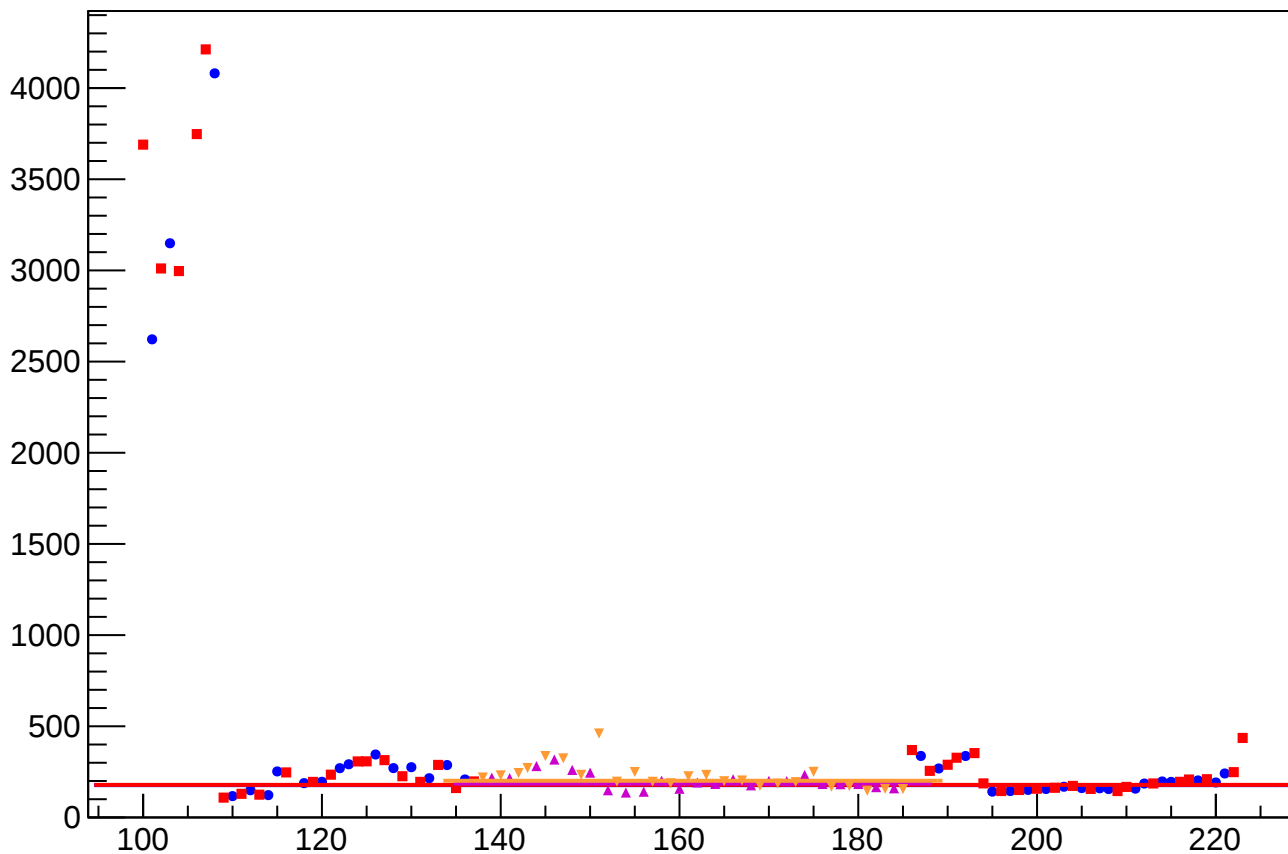
Right: -80.021 $\pm$ 30.362 χ^2 /NDF: 47.9/73

In: -20.843 $\pm$ 31.415 χ^2 /NDF:32.9/57

Out: -54.961 $\pm$ 32.311 χ^2 /NDF:35.1/63

All: -37.422 $\pm$ 22.524 χ^2 /NDF: 68.6/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.229+/-0.030 χ^2/NDF : 4745967.7/34

Left Out: 201.198+/-0.034 χ^2/NDF :1848437.4/24

Right Out: 178.629+/-0.031 χ^2/NDF : 5870444.5/38

Left In: 185.627+/-0.033 χ^2/NDF :1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

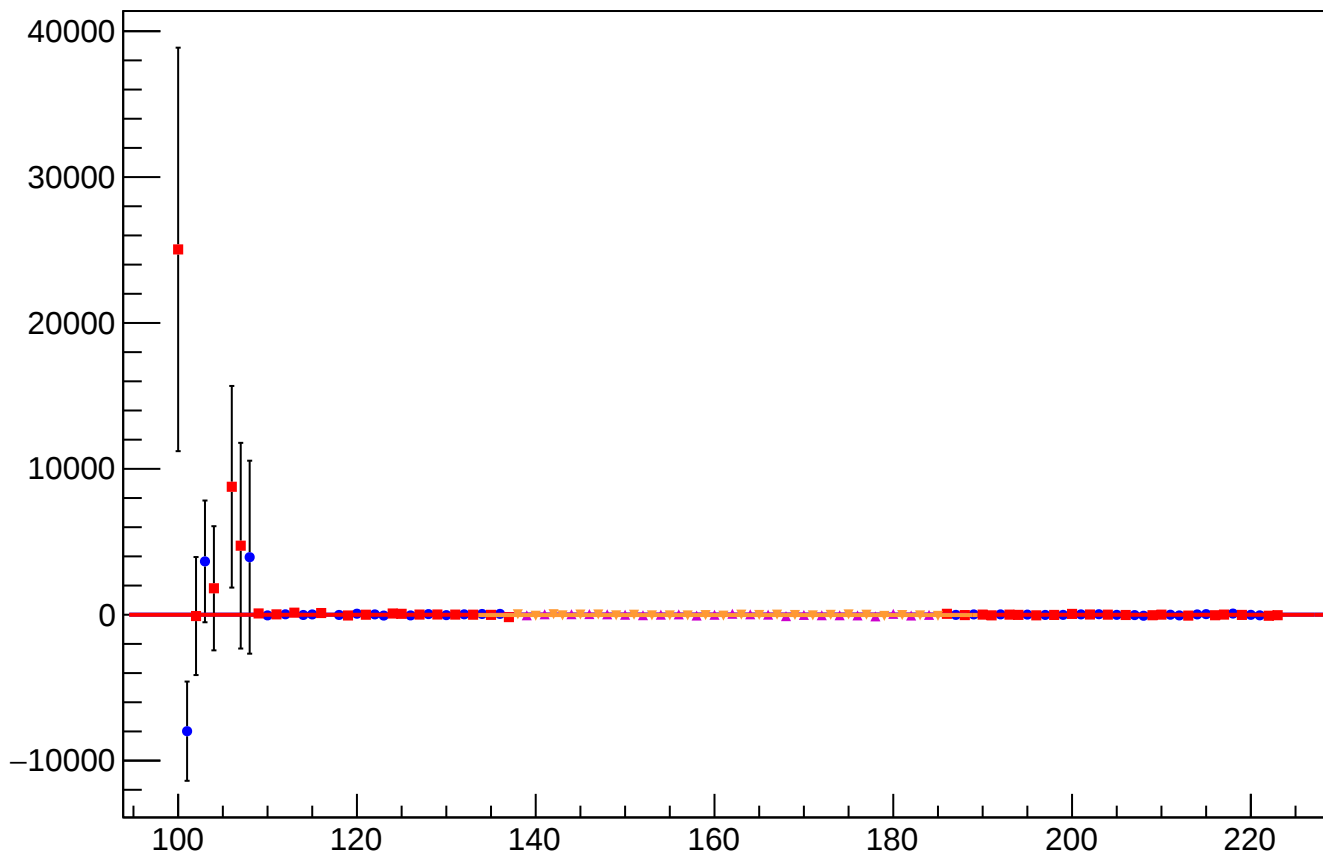
Right: 177.920+/-0.021 χ^2/NDF : 10617476.1/73

In: 181.075+/-0.022 χ^2/NDF :6152864.1/57

Out: 188.580+/-0.023 χ^2/NDF :7959414.2/63

All: 184.722+/-0.016 χ^2/NDF : 14167739.3/12

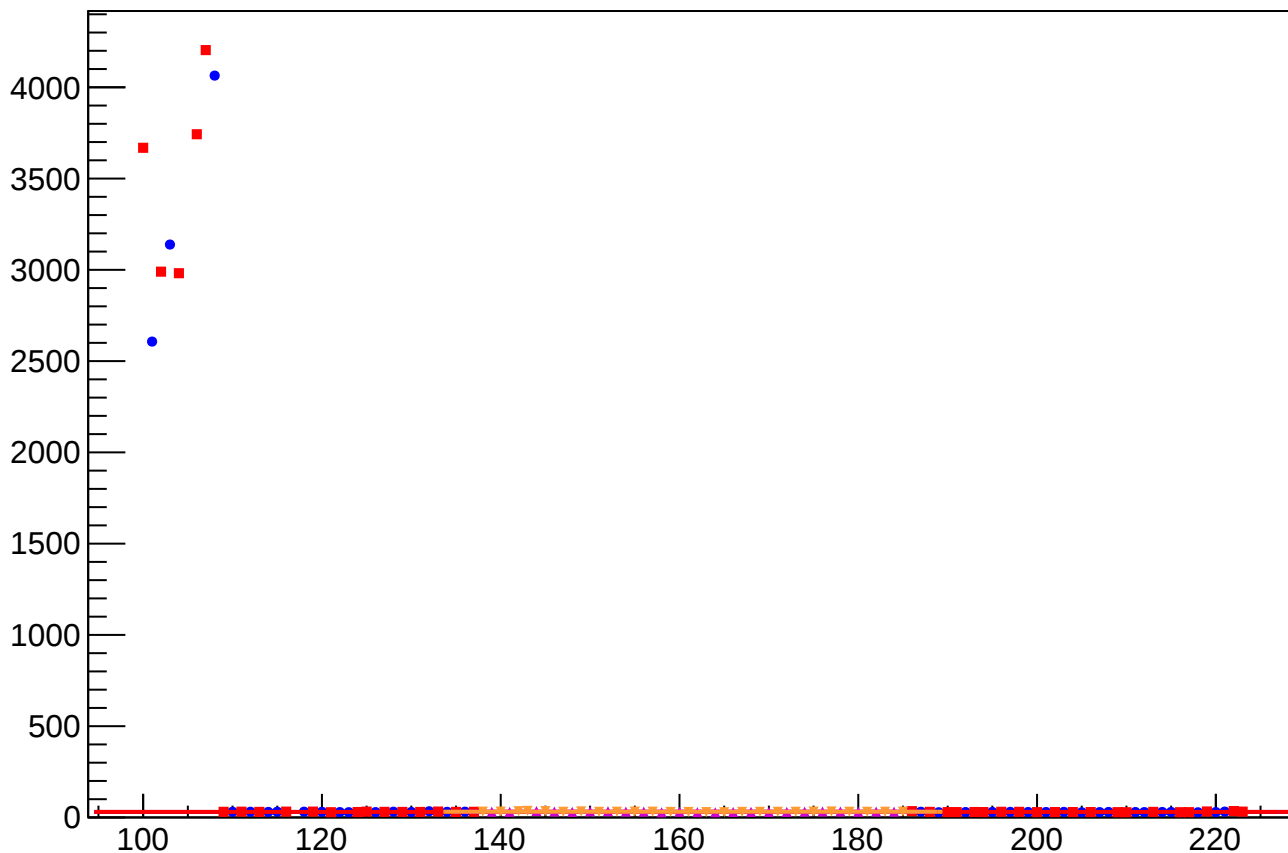
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.896+/-7.029 χ^2/NDF : 33.2/34
 Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24
 Right Out: -2.279+/-7.044 χ^2/NDF : 46.1/38
 Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47
 Right: 1.817+/-4.975 χ^2/NDF : 79.9/73
 In: 0.215+/-5.153 χ^2/NDF :73.3/57
 Out: -12.349+/-5.086 χ^2/NDF :68.7/63
 All: -6.149+/-3.620 χ^2/NDF : 145.0/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.163+/-0.005 χ^2/NDF : 3052950.7/34

Left Out: 31.488+/-0.005 χ^2/NDF :81938.2/24

Right Out: 30.416+/-0.005 χ^2/NDF : 3538467.5/38

Left In: 31.475+/-0.005 χ^2/NDF :87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

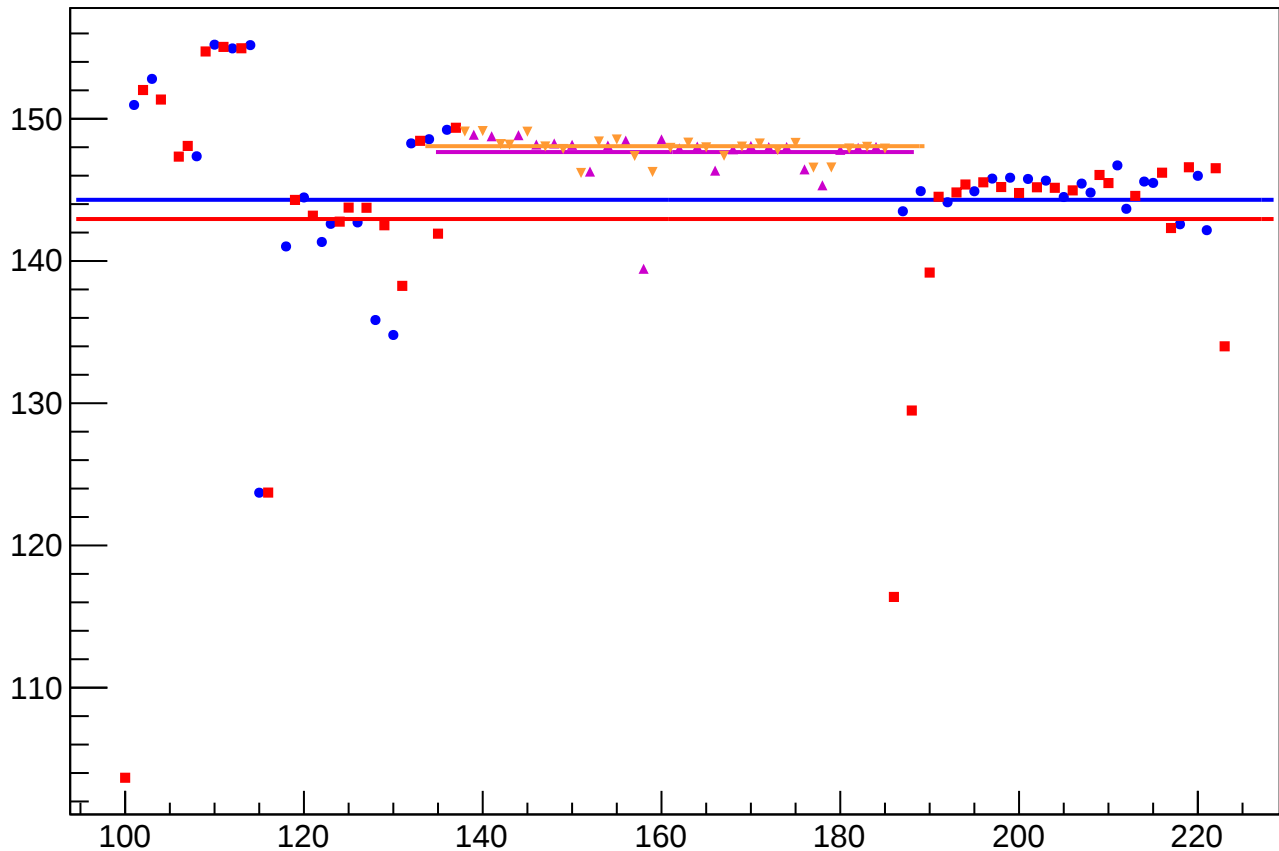
Right: 30.289+/-0.004 χ^2/NDF : 6592715.2/73

In: 30.770+/-0.004 χ^2/NDF :3173008.7/57

Out: 30.929+/-0.004 χ^2/NDF :3642587.4/63

All: 30.851+/-0.003 χ^2/NDF : 6816566.6/121

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.303+/-0.000 χ^2/NDF : 3526110385.4/34

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.952+/-0.000 χ^2/NDF : 7581534497.7/38

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

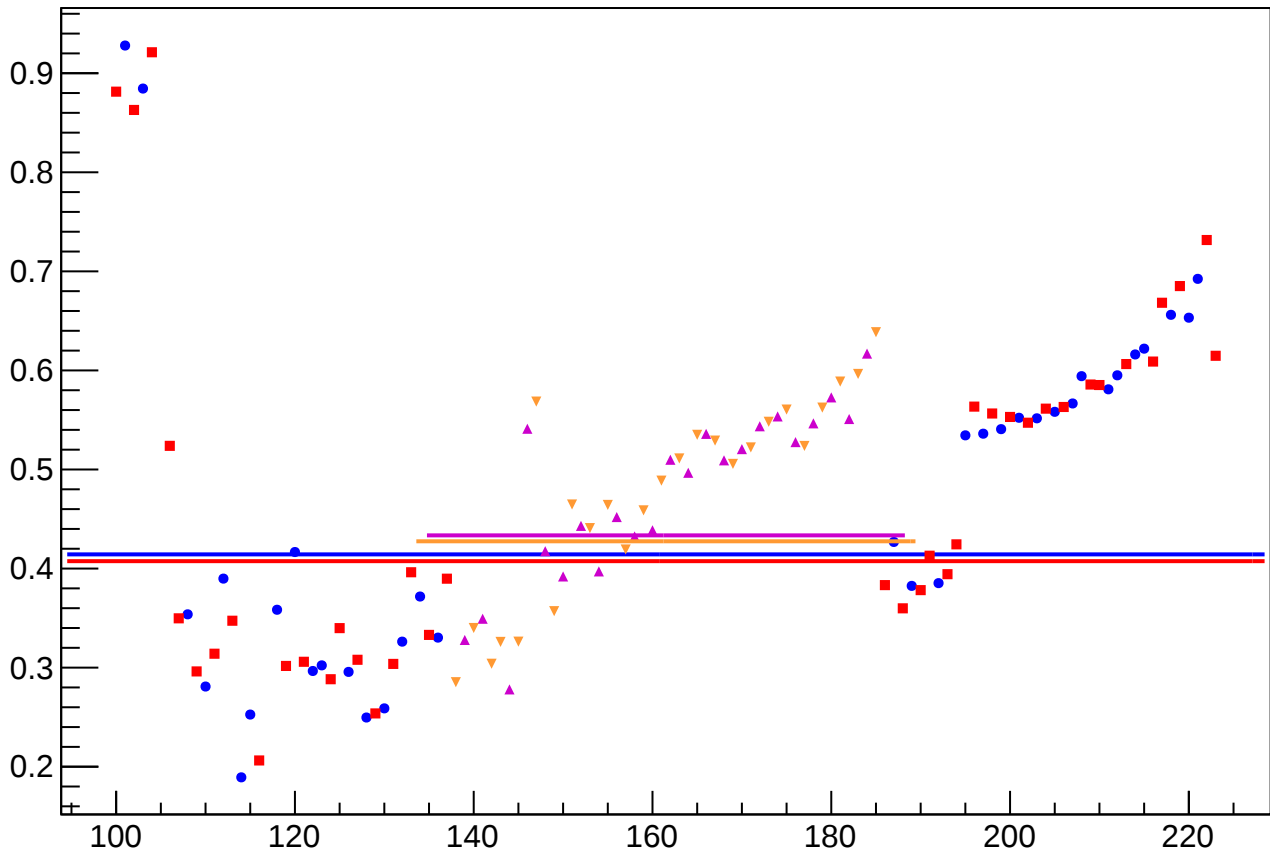
Right: 143.600+/-0.000 χ^2/NDF : 11200913953.3/73

In: 145.870+/-0.000 χ^2/NDF : 4386214856.8/57

Out: 145.335+/-0.000 χ^2/NDF : 8946459310.5/63

All: 145.592+/-0.000 χ^2/NDF : 13360017994.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.414 $\pm$ 0.000 χ^2/NDF : 4370036.5/34

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1892802.8/24

Right Out: 0.407 $\pm$ 0.000 χ^2/NDF : 4188590.4/38

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

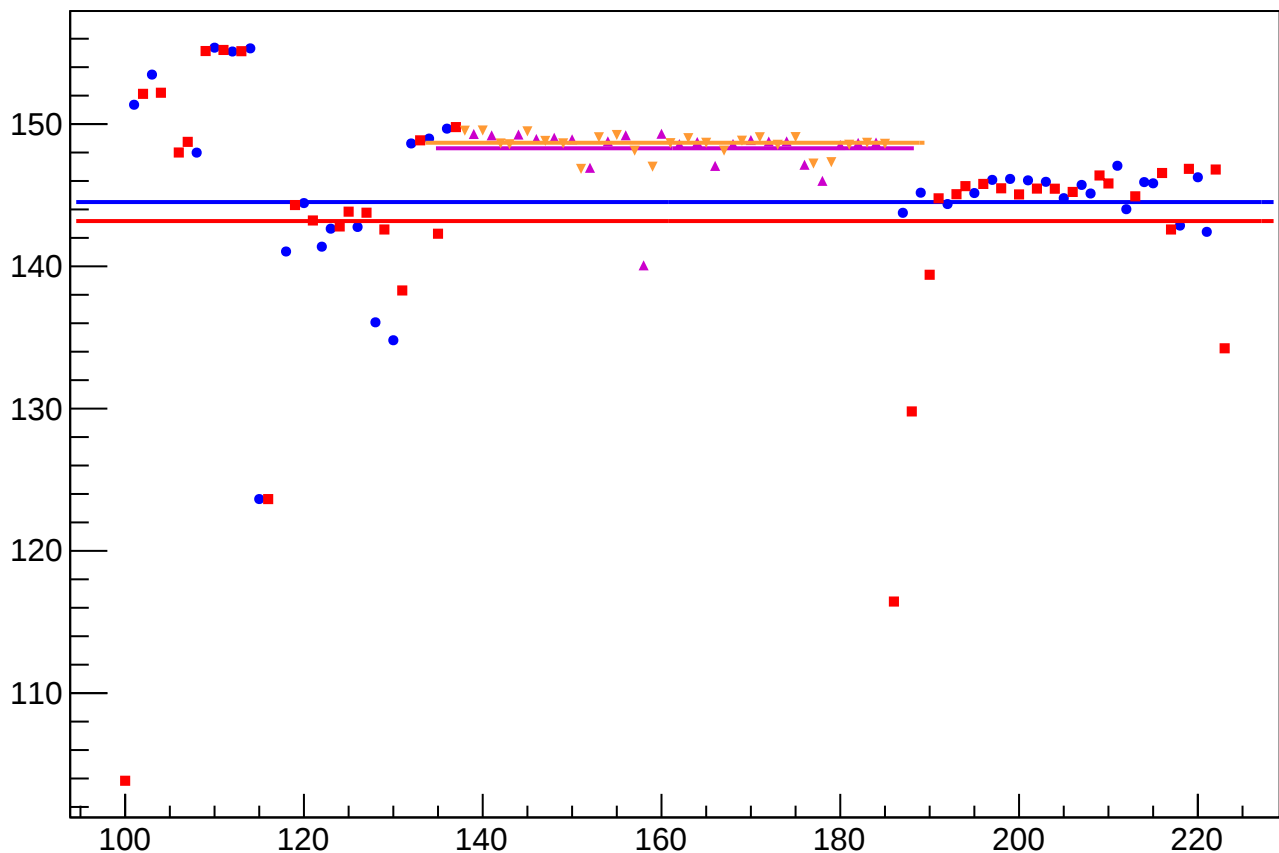
Right: 0.411 $\pm$ 0.000 χ^2/NDF : 8563423.3/73

In: 0.423 $\pm$ 0.000 χ^2/NDF :5883131.2/57

Out: 0.417 $\pm$ 0.000 χ^2/NDF :6121220.0/63

All: 0.420 $\pm$ 0.000 χ^2/NDF : 12012372.2/121

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.519 $\pm$ 0.000 χ^2 /NDF: 3576408457.4/34

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.183 $\pm$ 0.000 χ^2 /NDF: 7533691782.0/38

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

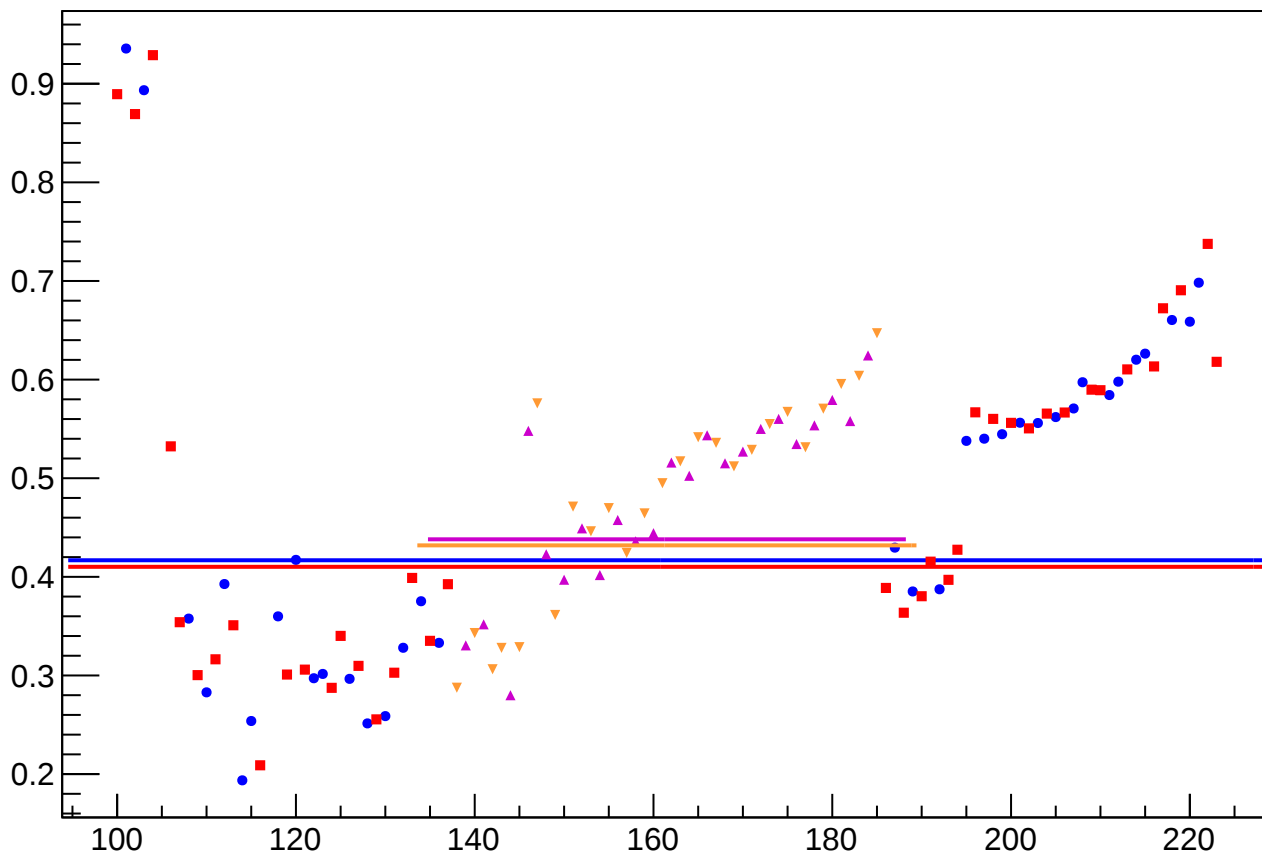
Right: 143.824 $\pm$ 0.000 χ^2 /NDF: 11200086660.4/73

In: 146.273 $\pm$ 0.000 χ^2 /NDF: 4551849001.8/57

Out: 145.733 $\pm$ 0.000 χ^2 /NDF: 9060129111.3/63

All: 145.992 $\pm$ 0.000 χ^2 /NDF: 13639446382.0/164

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.417 $\pm$ 0.000 χ^2 /NDF: 4382172.8/34

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.410 $\pm$ 0.000 χ^2 /NDF: 4194394.0/38

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

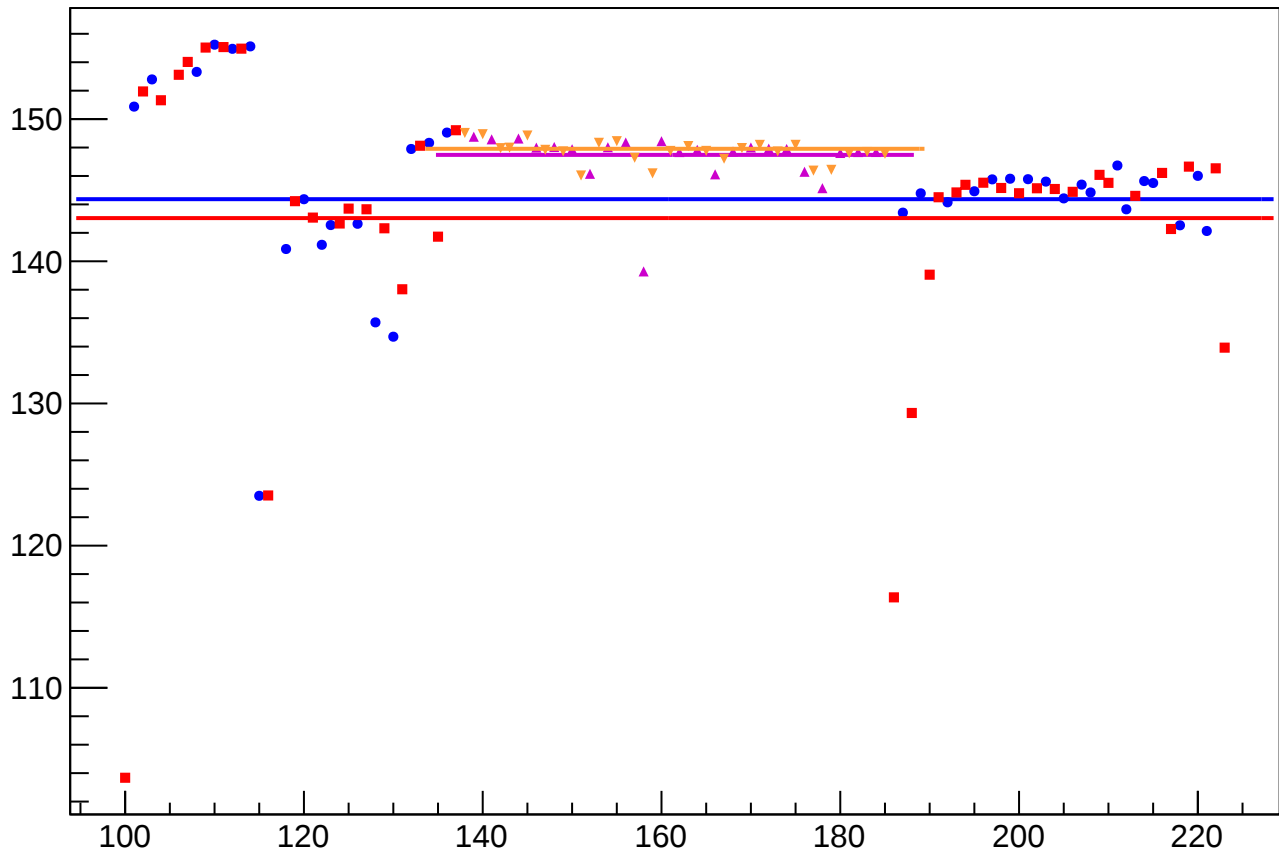
Right: 0.413 $\pm$ 0.000 χ^2 /NDF: 8581014.9/73

In: 0.427 $\pm$ 0.000 χ^2 /NDF:5927428.0/57

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:6165375.2/63

All: 0.423 $\pm$ 0.000 χ^2 /NDF: 12100579.3/121

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.368 ± 0.000 $\chi^2/\text{NDF}: 3732402058.5/34$

Left Out: 147.912 ± 0.000 $\chi^2/\text{NDF}: 64463426.1/24$

Right Out: 143.037 ± 0.000 $\chi^2/\text{NDF}: 7956004511.6/38$

Left In: 147.483 ± 0.000 $\chi^2/\text{NDF}: 342674720.4/22$

Left: 147.706 ± 0.000 $\chi^2/\text{NDF}: 415263003.2/47$

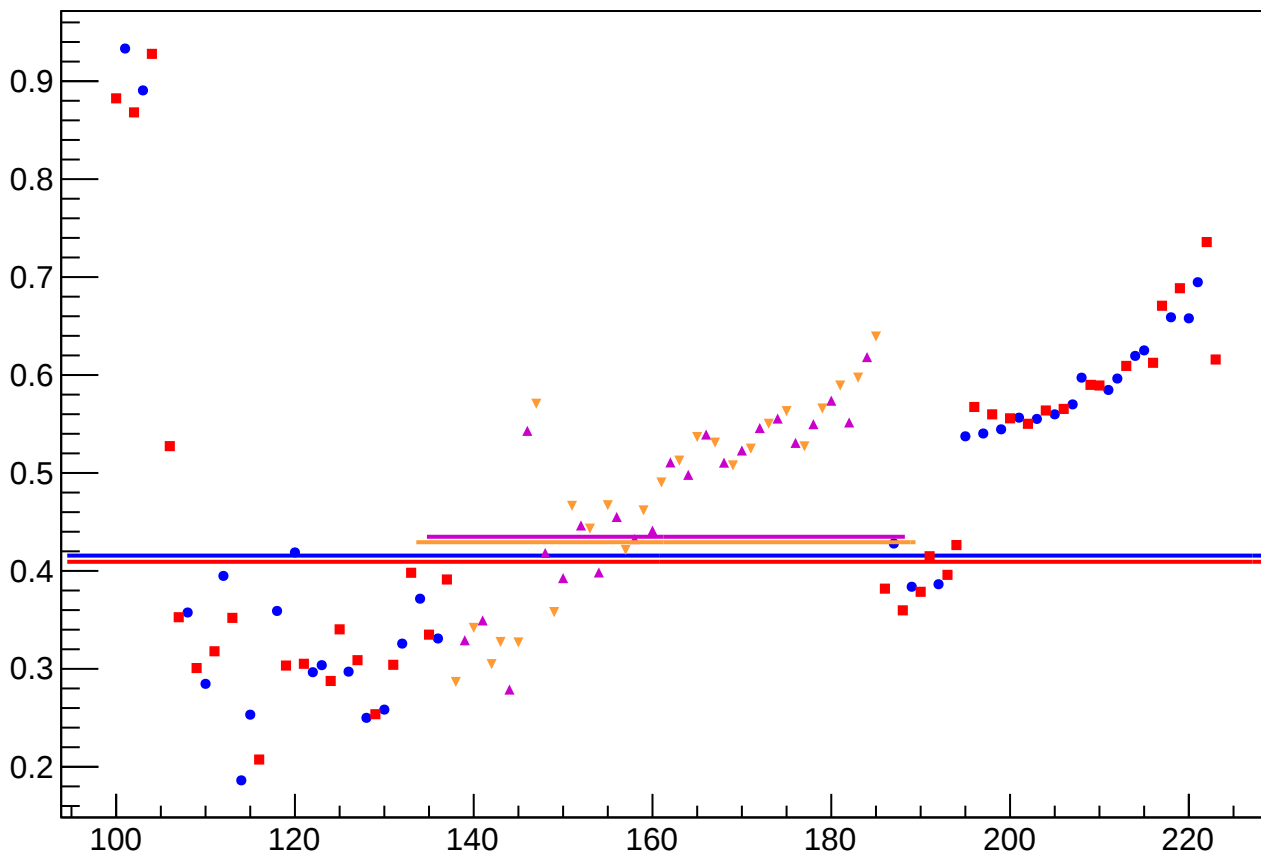
Right: 143.676 ± 0.000 $\chi^2/\text{NDF}: 11778121193.3/73$

In: 145.823 ± 0.000 $\chi^2/\text{NDF}: 4516381641.5/57$

Out: 145.306 ± 0.000 $\chi^2/\text{NDF}: 9187015728.5/63$

All: 145.555 ± 0.000 $\chi^2/\text{NDF}: 13728687154.0/100$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.416 $\pm$ 0.000 χ^2 /NDF: 4412863.0/34

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.409 $\pm$ 0.000 χ^2 /NDF: 4196978.6/38

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

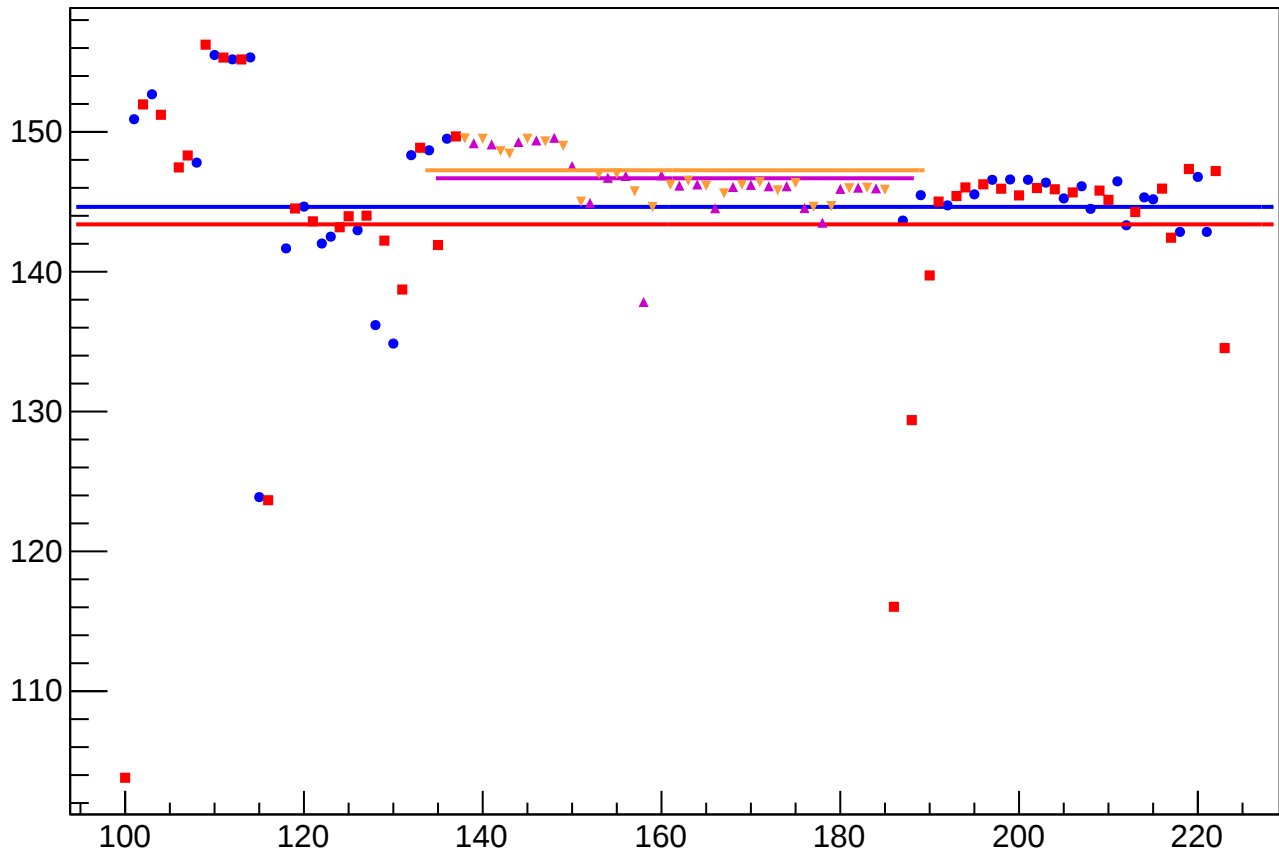
Right: 0.412 $\pm$ 0.000 χ^2 /NDF: 8613874.2/73

In: 0.425 $\pm$ 0.000 χ^2 /NDF:5932455.3/57

Out: 0.419 $\pm$ 0.000 χ^2 /NDF:6127877.8/63

All: 0.422 $\pm$ 0.000 χ^2 /NDF: 12067150.3/121

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.638 ± 0.000 $\chi^2/\text{NDF}: 3249908490.7/34$

Left Out: 147.257 ± 0.000 $\chi^2/\text{NDF}: 261906278.3/24$

Right Out: 143.388 ± 0.000 $\chi^2/\text{NDF}: 7265565933.0/38$

Left In: 146.685 ± 0.000 $\chi^2/\text{NDF}: 554922388.0/22$

Left: 146.981 ± 0.000 $\chi^2/\text{NDF}: 830580031.2/47$

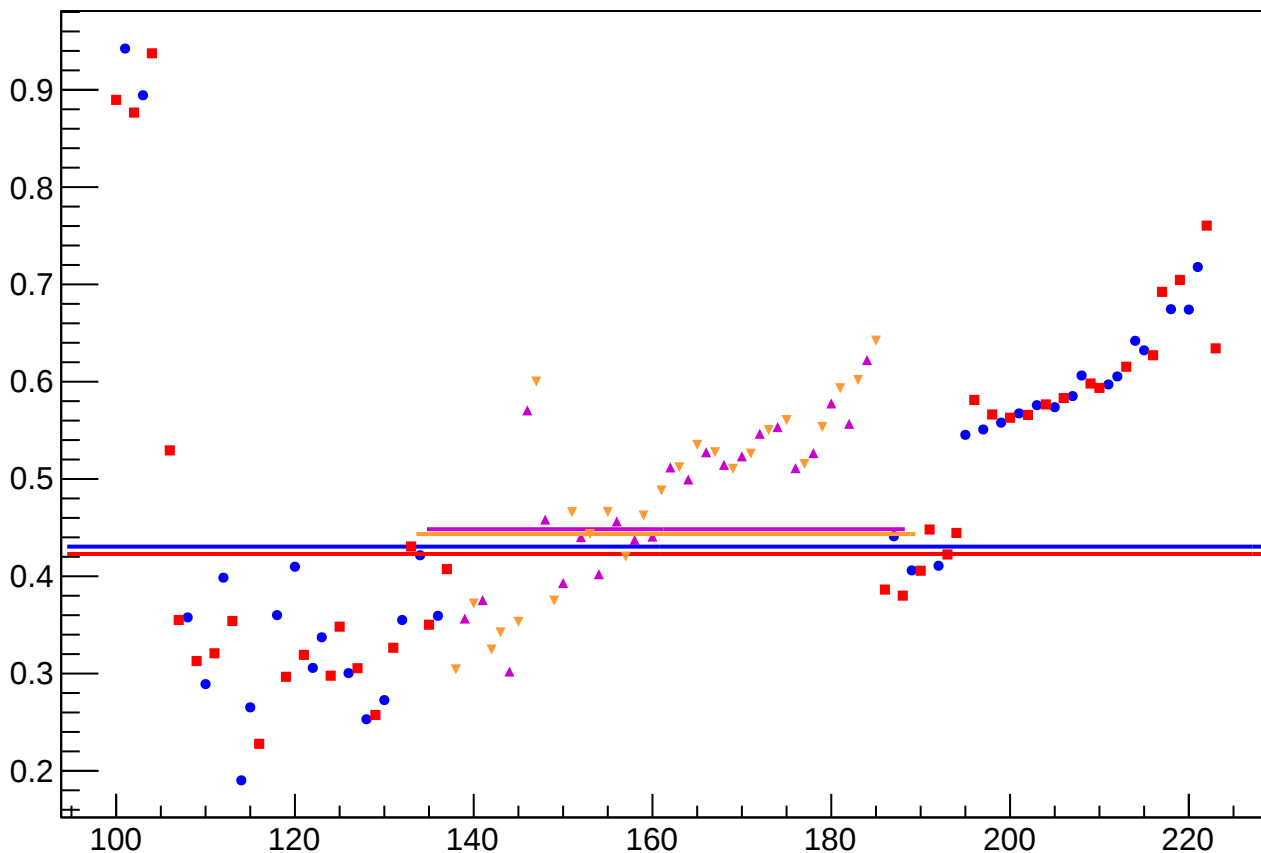
Right: 143.987 ± 0.000 $\chi^2/\text{NDF}: 10589476588.9/73$

In: 145.603 ± 0.000 $\chi^2/\text{NDF}: 3984328690.0/57$

Out: 145.199 ± 0.000 $\chi^2/\text{NDF}: 8219815574.8/63$

All: 145.393 ± 0.000 $\chi^2/\text{NDF}: 12218718212.0/100$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.430+/-0.000 χ^2/NDF : 4271683.3/34

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.423+/-0.000 χ^2/NDF : 4073630.0/38

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

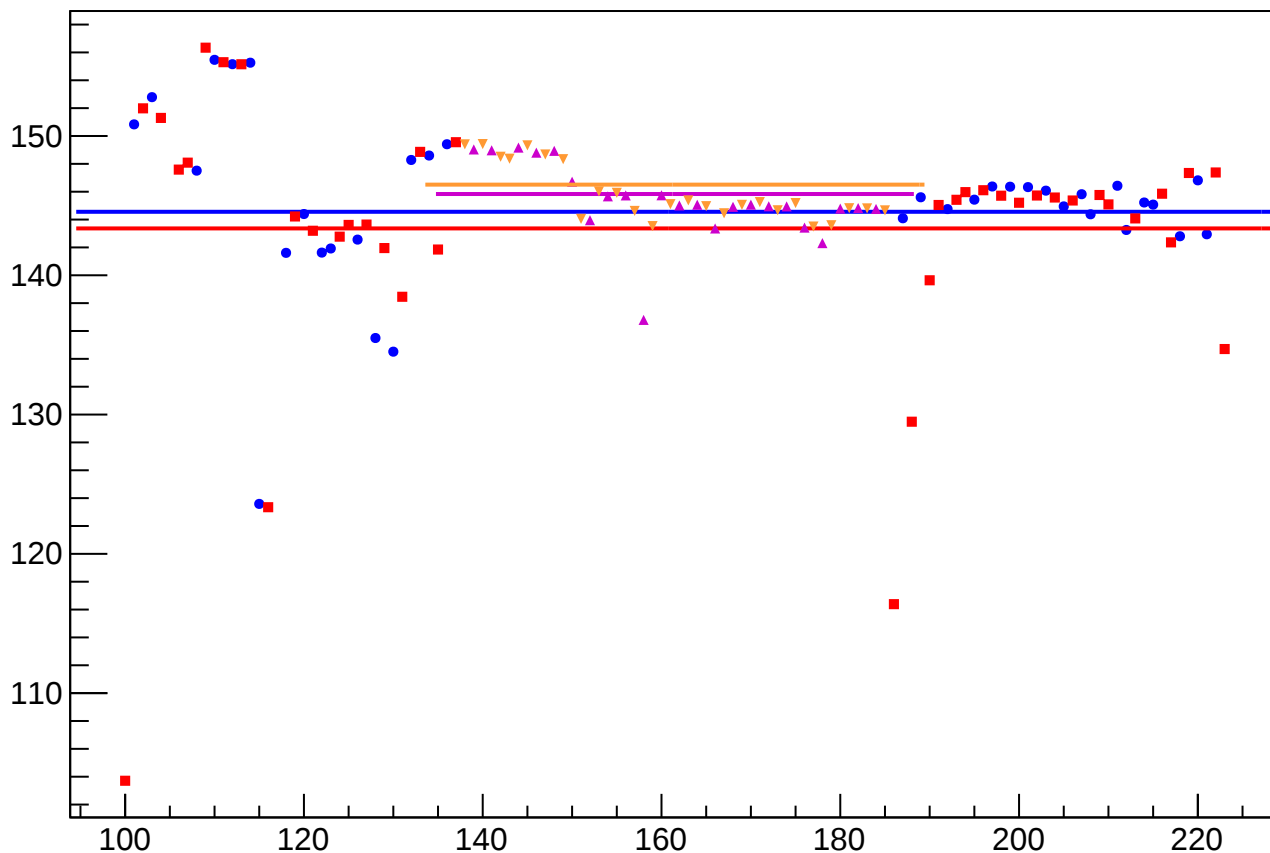
Right: 0.427+/-0.000 χ^2/NDF : 8350721.0/73

In: 0.439+/-0.000 χ^2/NDF :5419433.1/57

Out: 0.433+/-0.000 χ^2/NDF :5592848.4/63

All: 0.436+/-0.000 χ^2/NDF : 11019643.0/121

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.558 $\pm$ 0.000 χ^2 /NDF: 3358981915.8/34

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.364 $\pm$ 0.000 χ^2 /NDF: 7215151821.4/38

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

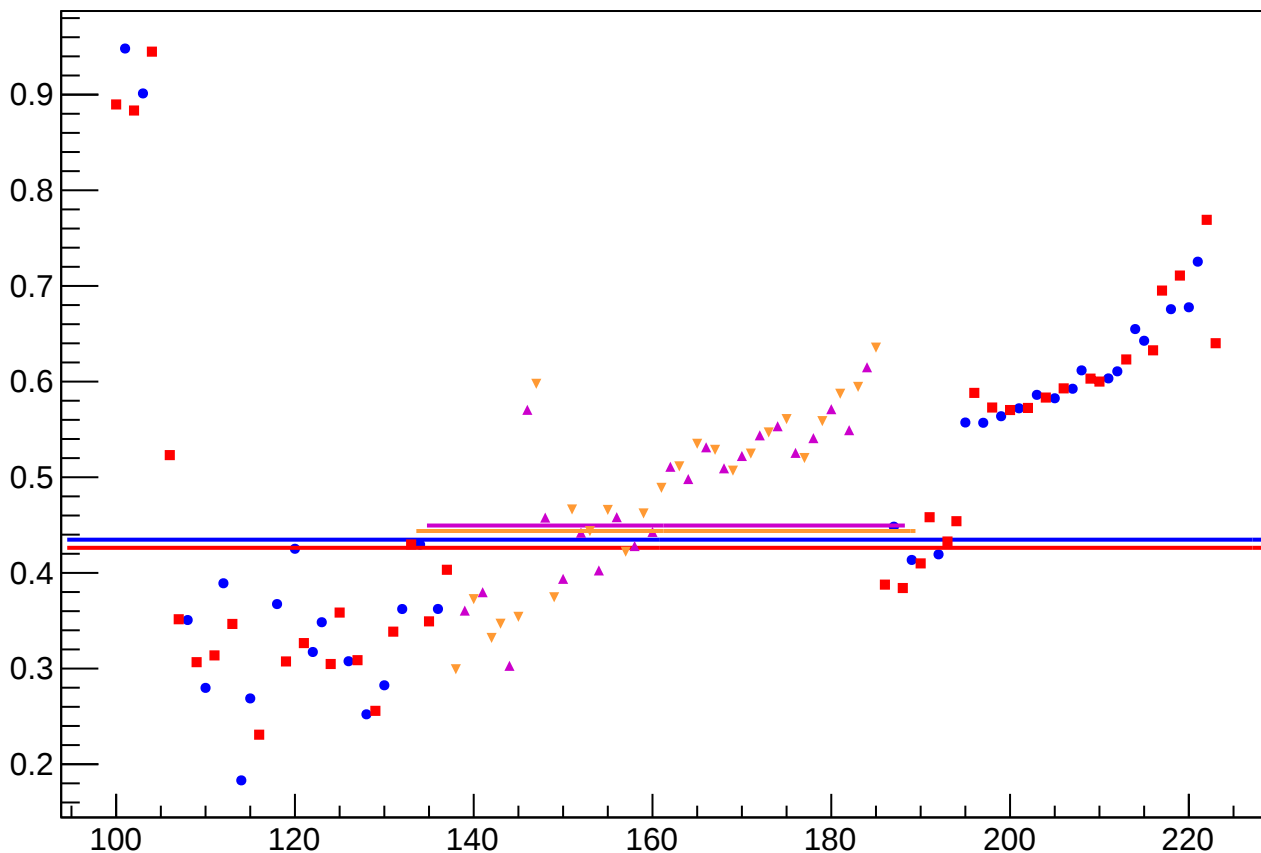
Right: 143.935 $\pm$ 0.000 χ^2 /NDF: 10640260306.9/73

In: 145.165 $\pm$ 0.000 χ^2 /NDF: 4117992412.1/57

Out: 144.849 $\pm$ 0.000 χ^2 /NDF: 8069052449.5/63

All: 145.001 $\pm$ 0.000 χ^2 /NDF: 12195894836.0/122

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.435 $\pm$ 0.000 χ^2/NDF : 4321155.5/34

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF :1460383.7/24

Right Out: 0.426 $\pm$ 0.000 χ^2/NDF : 4112235.5/38

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

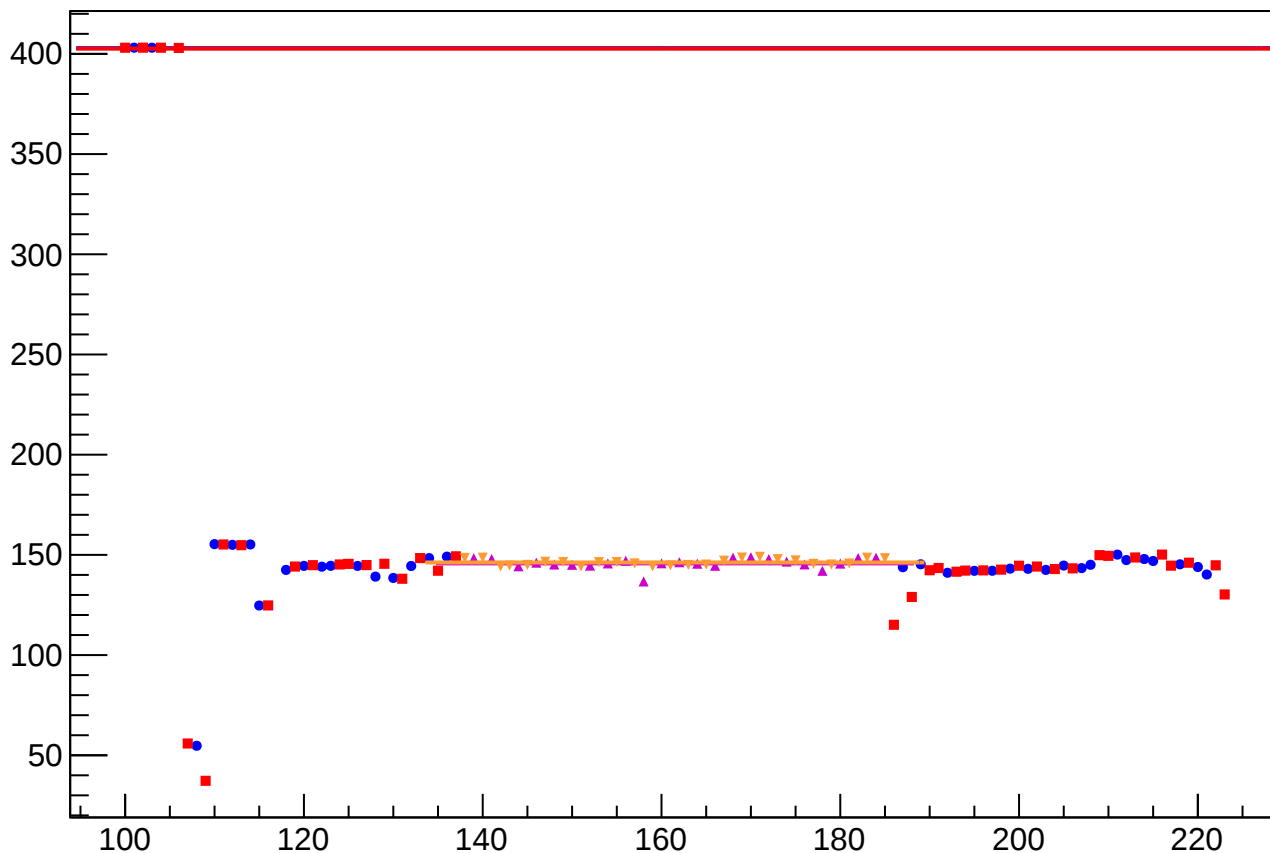
Right: 0.430 $\pm$ 0.000 χ^2/NDF : 8440109.0/73

In: 0.442 $\pm$ 0.000 χ^2/NDF :5432438.0/57

Out: 0.435 $\pm$ 0.000 χ^2/NDF :5600903.6/63

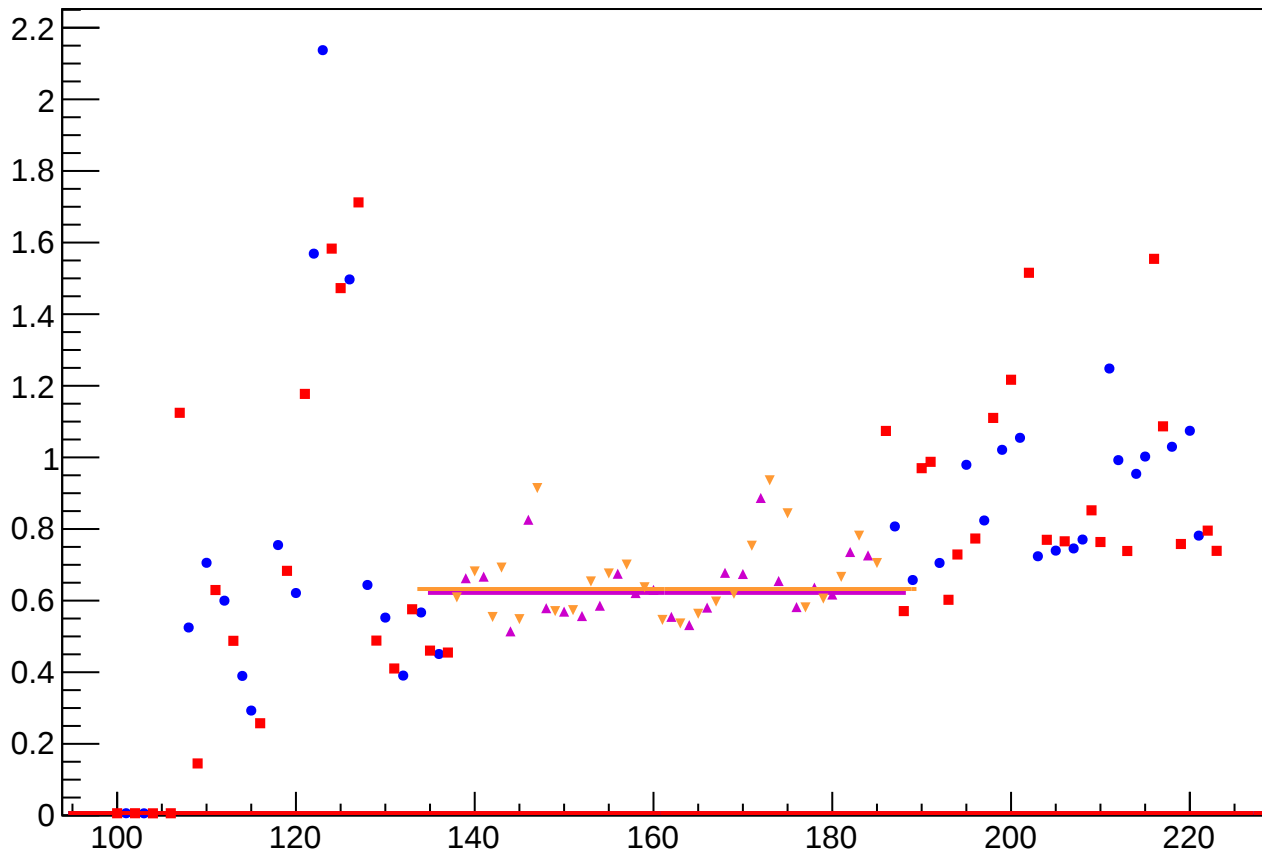
All: 0.438 $\pm$ 0.000 χ^2/NDF : 11042617.0/121

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.836 $\pm$ 0.000	χ^2 /NDF: 2074531814475.1/34	Left: 145.987 $\pm$ 0.000	χ^2 /NDF: 295994641.0/47
Left Out: 146.216 $\pm$ 0.000	χ^2 /NDF: 86042286.3/24	Right: 402.745 $\pm$ 0.000	χ^2 /NDF: 6408960692364.1
Right Out: 402.665 $\pm$ 0.000	χ^2 /NDF: 4333943963384.2/38	In: 402.545 $\pm$ 0.000	χ^2 /NDF: 4404607596359.2/57
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.405 $\pm$ 0.000	χ^2 /NDF: 6690182836973.8/6
		All: 402.471 $\pm$ 0.000	χ^2 /NDF: 110951188546

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 30362579.1/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 32571107.4/38

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

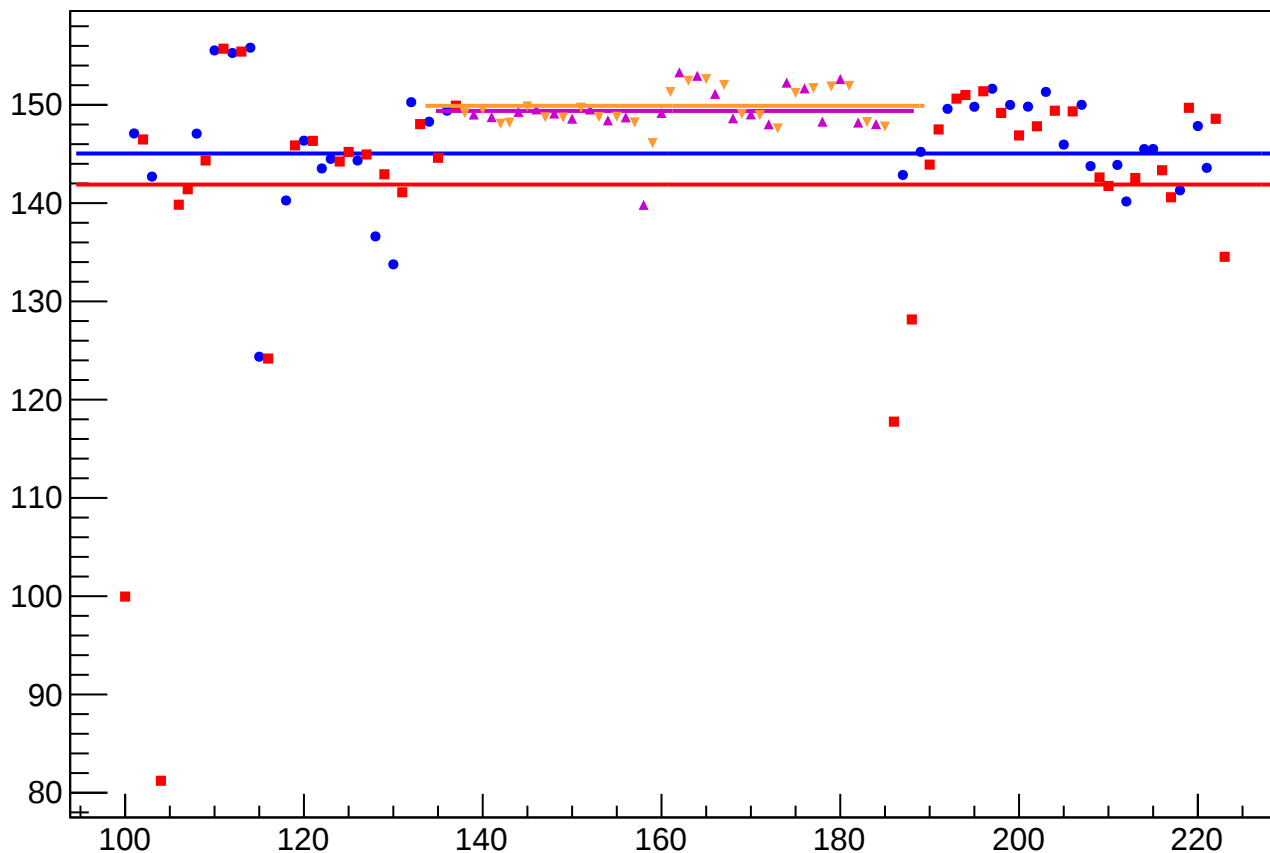
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 62933687.1/73

In: 0.007 $\pm$ 0.000 χ^2 /NDF:57418317.3/57

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:61234976.9/63

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 118653431.1/121

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.049 $\pm$ 0.000 χ^2 /NDF: 1387199734.8/34

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 141.891 $\pm$ 0.000 χ^2 /NDF: 3419228564.7/38

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

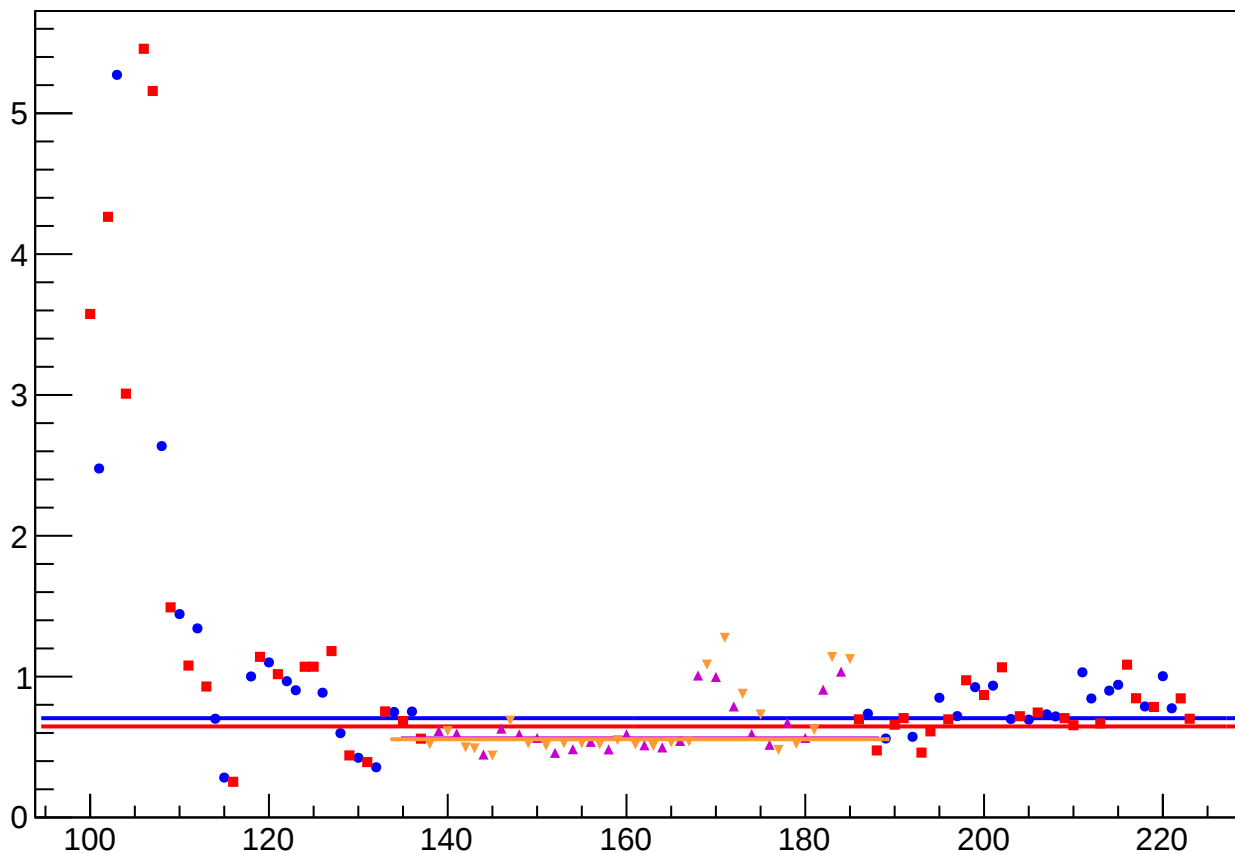
Right: 143.310 $\pm$ 0.000 χ^2 /NDF: 4965259461.7/73

In: 147.738 $\pm$ 0.000 χ^2 /NDF: 2158571938.2/57

Out: 146.606 $\pm$ 0.000 χ^2 /NDF: 4920756741.7/63

All: 147.137 $\pm$ 0.000 χ^2 /NDF: 7131141631.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.705 $\pm$ 0.000 χ^2 /NDF: 4554847.5/34

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.646 $\pm$ 0.000 χ^2 /NDF: 6053924.2/38

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

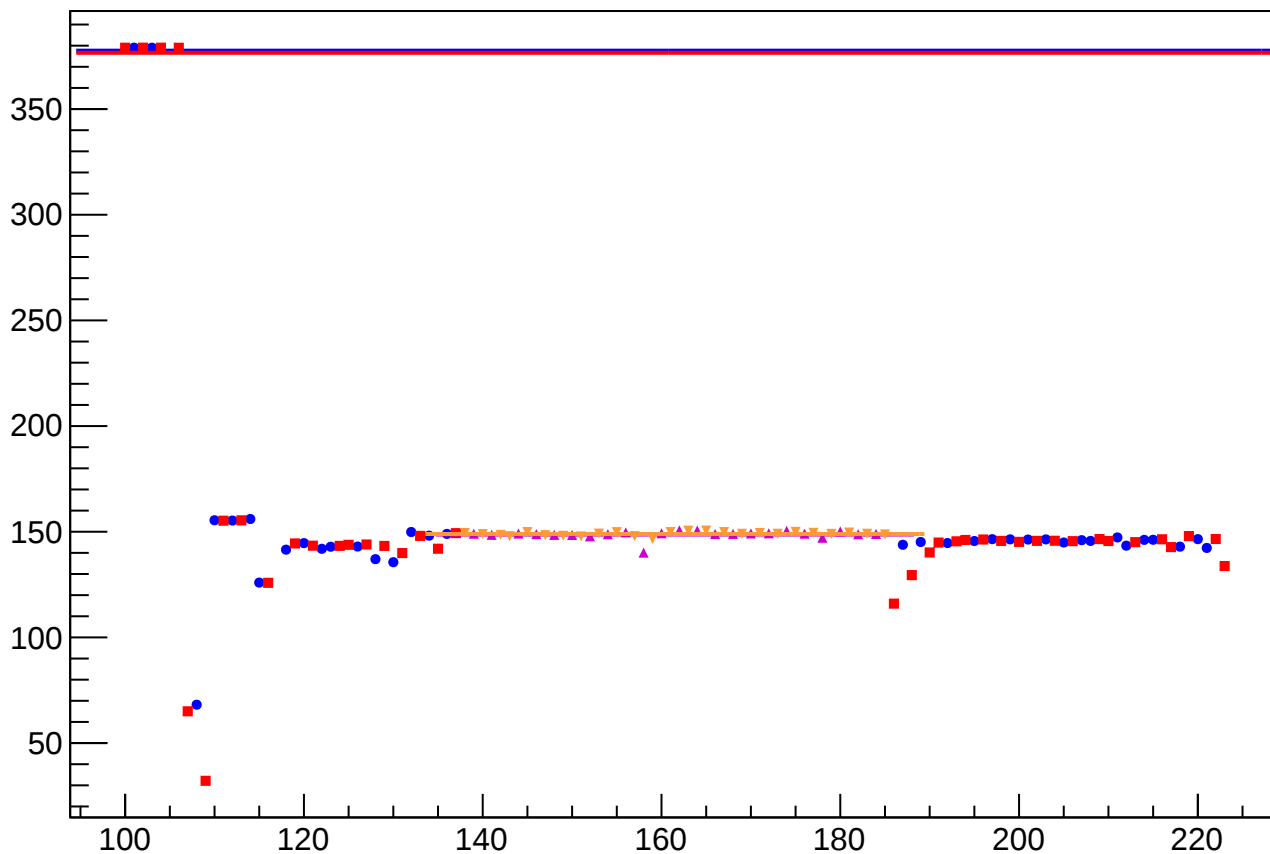
Right: 0.673 $\pm$ 0.000 χ^2 /NDF: 10718295.7/73

In: 0.616 $\pm$ 0.000 χ^2 /NDF:6595247.5/57

Out: 0.593 $\pm$ 0.000 χ^2 /NDF:8171345.5/63

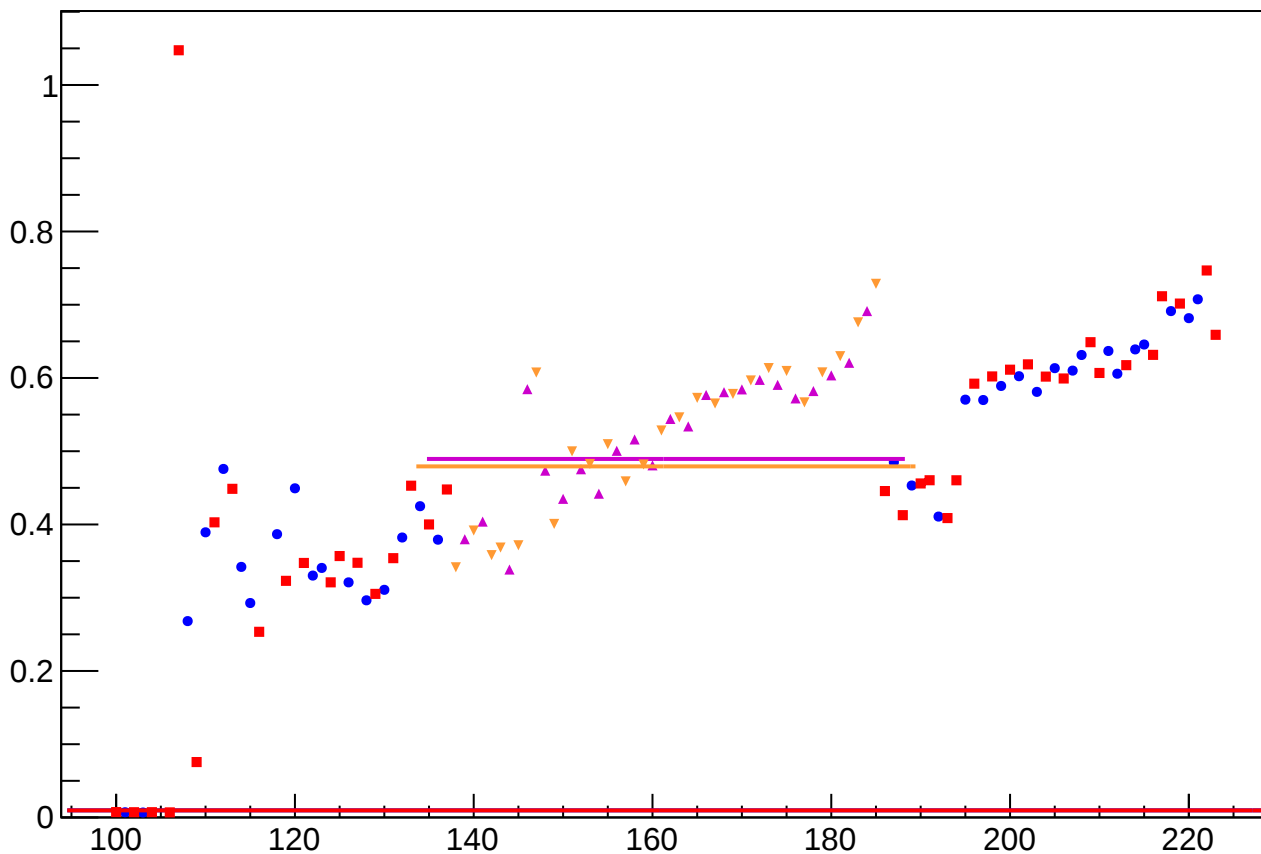
All: 0.604 $\pm$ 0.000 χ^2 /NDF: 14810339.9/121

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.637+/-0.000	χ^2/NDF : 4509497156565.9/34	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.103+/-0.000	χ^2/NDF : 15135504614223.0
Right Out: 376.635+/-0.000	χ^2/NDF : 10618858462919.0/38	In: 376.470+/-0.000	χ^2/NDF : 8077147486968.5/57
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.523+/-0.000	χ^2/NDF : 14472806076339.8
		All: 375.966+/-0.000	χ^2/NDF : 225563705390.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 34686408.9/34

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 35238574.3/38

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2600075.4/47

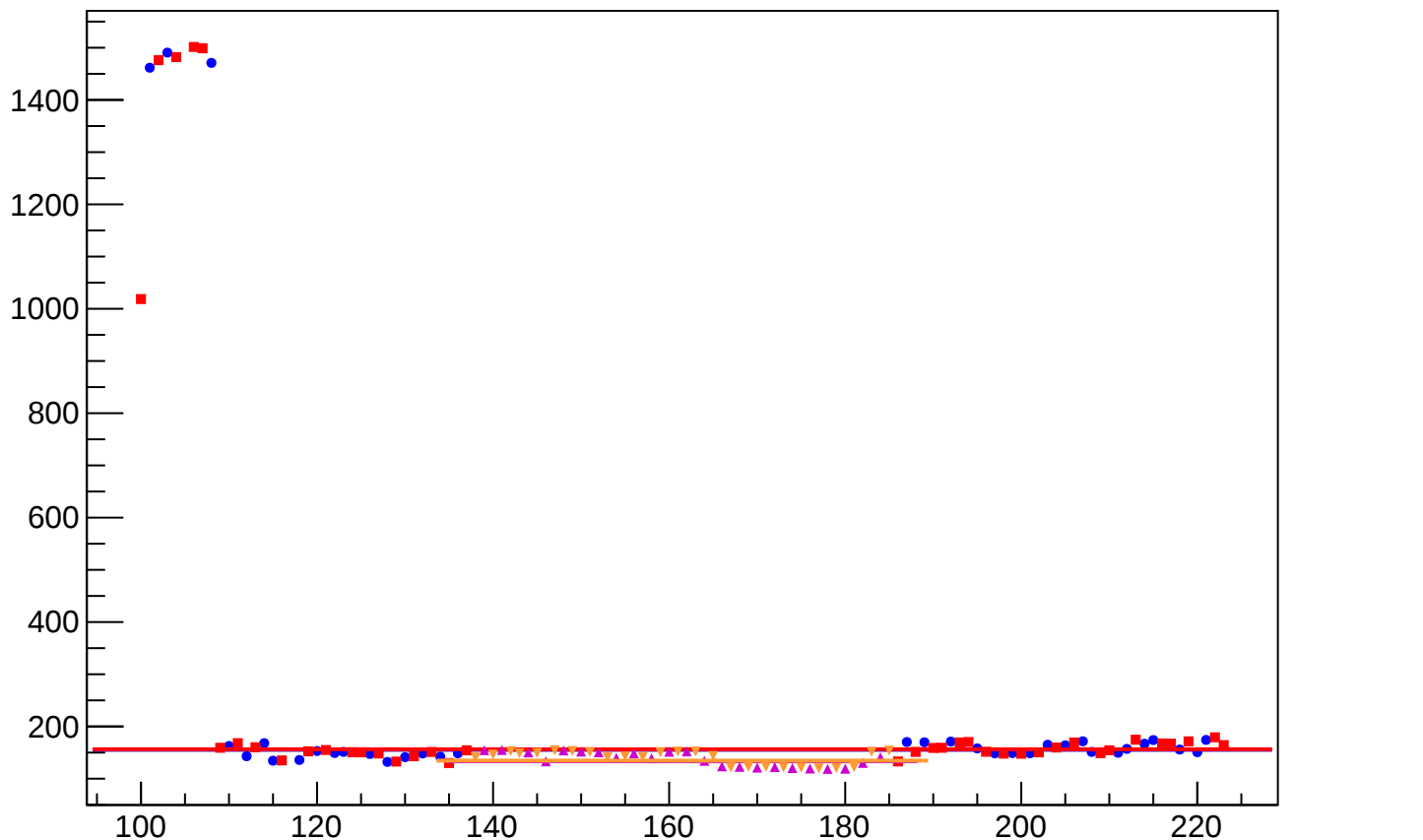
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 69925040.3/73

In: 0.012 $\pm$ 0.000 χ^2 /NDF:67086397.0/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:69548905.4/63

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 136635963.7/121

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.379+/-0.000 χ^2/NDF : 26341059637.8/34

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 156.318+/-0.000 χ^2/NDF : 35656747534.2/38

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

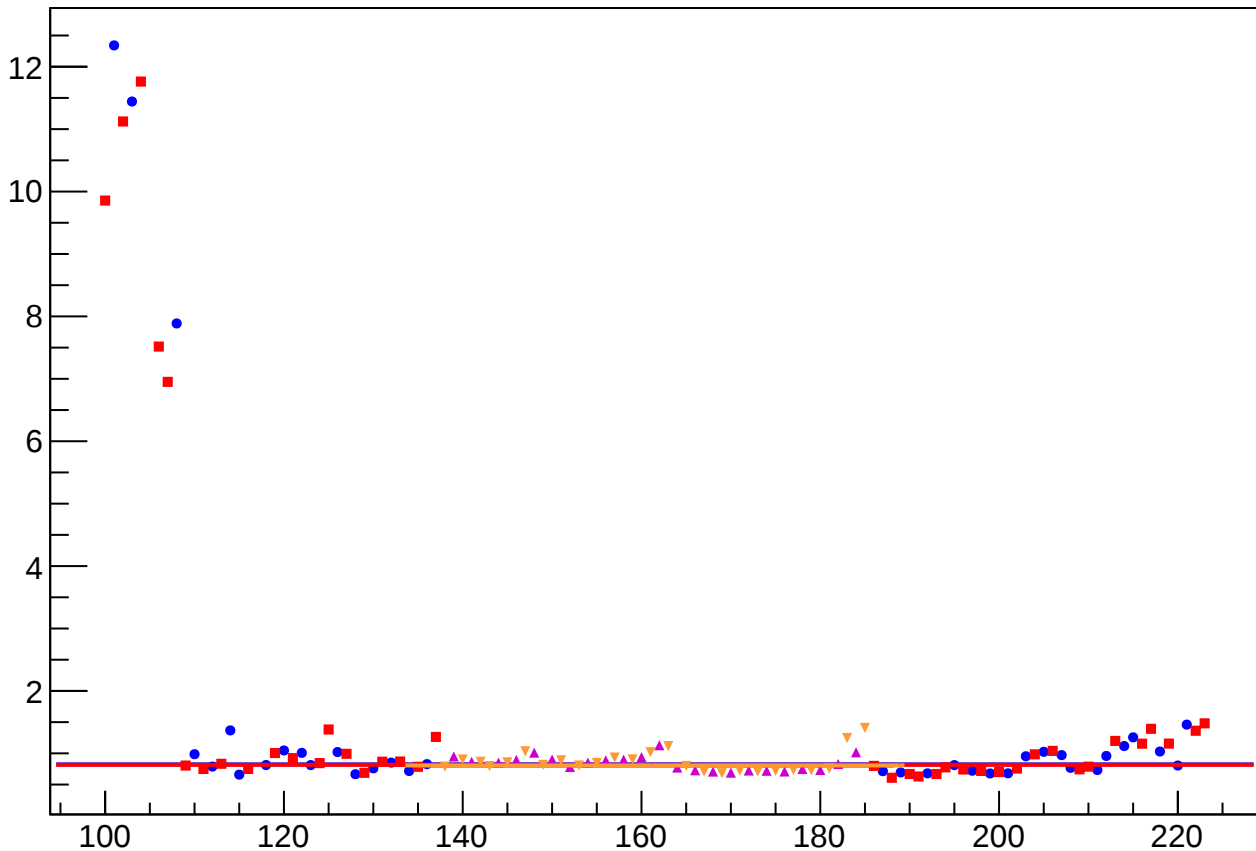
Right: 155.858+/-0.000 χ^2/NDF : 62007607013.1/73

In: 144.111+/-0.000 χ^2/NDF : 36044997004.0/57

Out: 145.196+/-0.000 χ^2/NDF : 45526146253.8/63

All: 144.665+/-0.000 χ^2/NDF : 81597882963.0/114

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.823+/-0.000 χ^2/NDF : 3673724.0/34

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.816+/-0.000 χ^2/NDF : 4288716.5/38

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

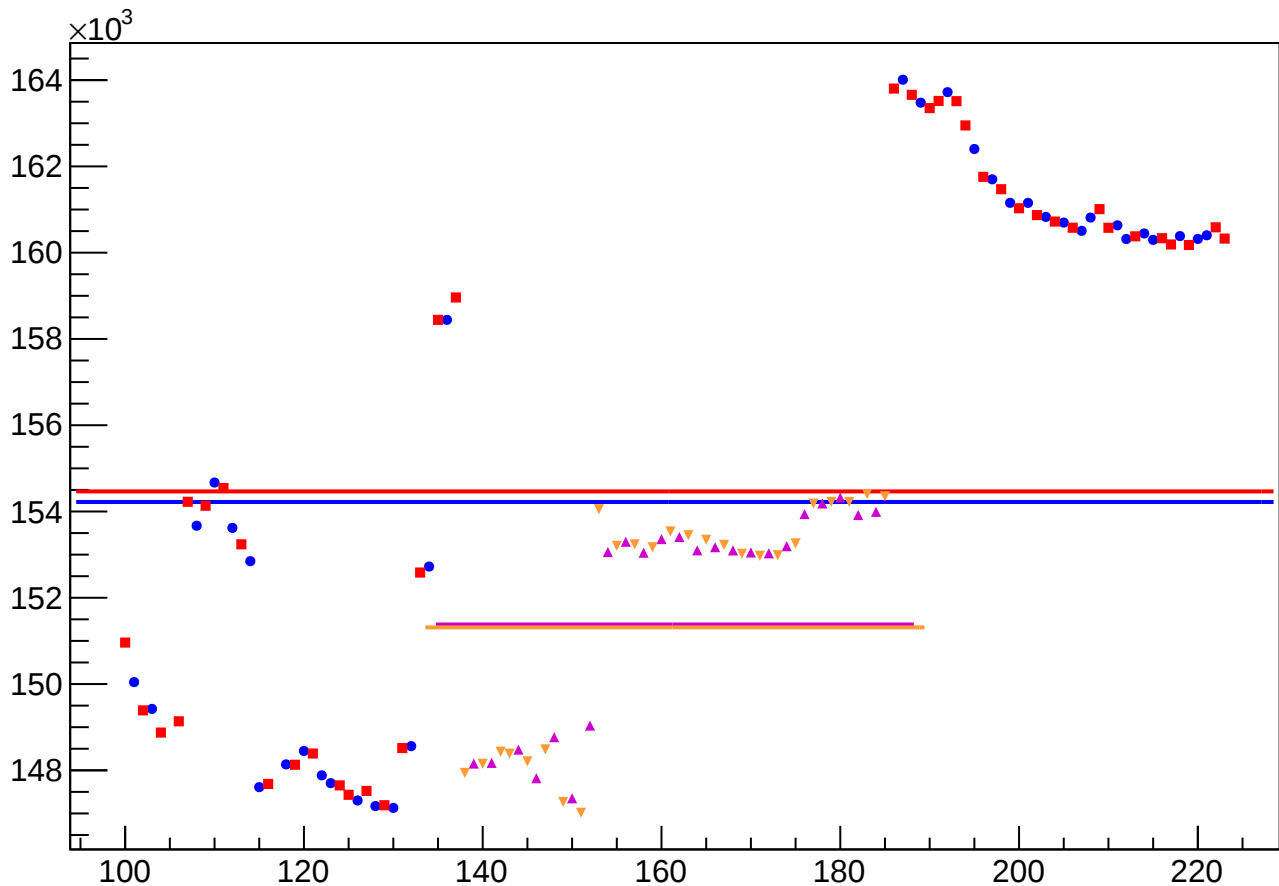
Right: 0.820+/-0.000 χ^2/NDF : 7963553.9/73

In: 0.814+/-0.000 χ^2/NDF : 4161925.9/57

Out: 0.811+/-0.000 χ^2/NDF : 4981694.8/63

All: 0.812+/-0.000 χ^2/NDF : 9143969.3/121

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 154220.873+/-0.051

χ^2/NDF : 12877837760.6/34

Left Out: 151313.284+/-0.049

χ^2/NDF : 3153768134.8/24

Right Out: 154465.827+/-0.049

χ^2/NDF : 13472418960.5/38

Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

Left: 151345.082+/-0.035

χ^2/NDF : 5518562148.3/4

Right: 154348.998+/-0.036

χ^2/NDF : 26362090154.8/4

In: 152791.974+/-0.036

χ^2/NDF : 16772157737.9/5

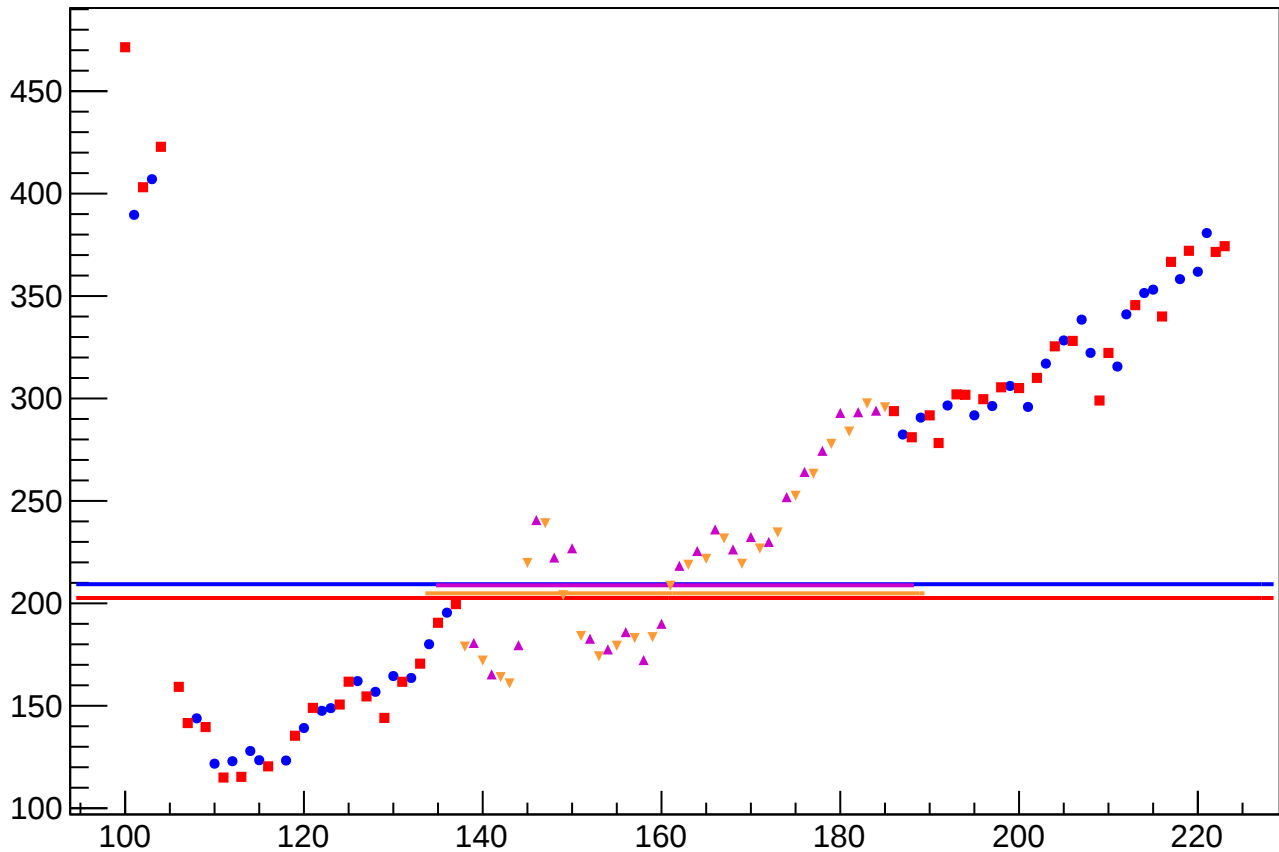
Out: 152873.678+/-0.035

χ^2/NDF : 18701680452.5/4

All: 152834.793+/-0.025

χ^2/NDF : 354764924.8/4

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 209.345 $\pm$ 0.036 χ^2 /NDF: 6133666.3/34

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 202.622 $\pm$ 0.035 χ^2 /NDF: 6549473.9/38

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

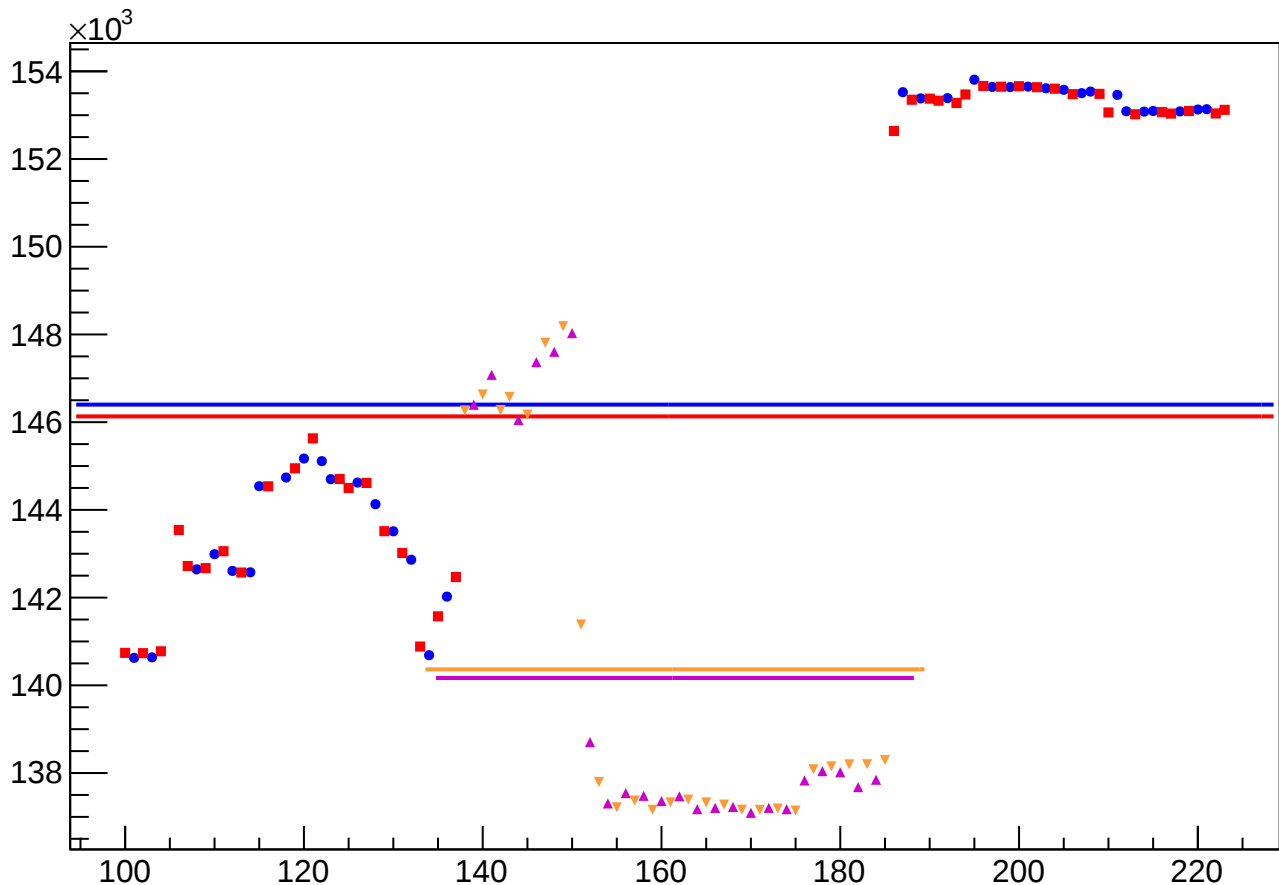
Right: 205.829 $\pm$ 0.025 χ^2 /NDF: 12700969.9/73

In: 209.077 $\pm$ 0.026 χ^2 /NDF:7135710.5/57

Out: 203.772 $\pm$ 0.024 χ^2 /NDF:7608021.5/63

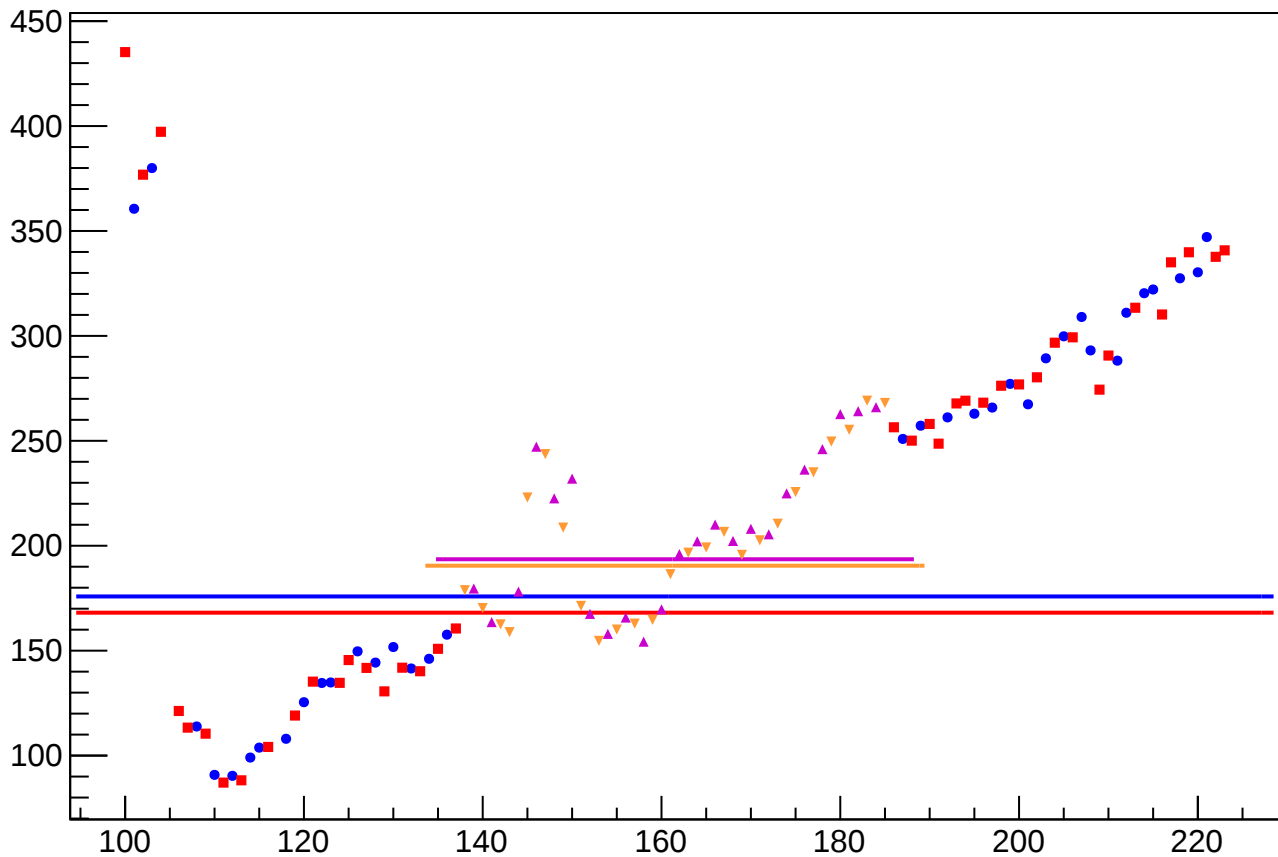
All: 206.297 $\pm$ 0.018 χ^2 /NDF: 14766112.3/12

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146400.342 $\pm$ 0.044	χ^2 /NDF: 11401189001.9/34	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 146257.864 $\pm$ 0.030	χ^2 /NDF: 23921360701.5
Right Out: 146131.582 $\pm$ 0.042	χ^2 /NDF: 12500548002.2/38	In: 143506.226 $\pm$ 0.032	χ^2 /NDF: 28674740273.6/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143488.799 $\pm$ 0.031	χ^2 /NDF: 29990097426.6/5
		All: 143497.036 $\pm$ 0.022	χ^2 /NDF: 586649909

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 175.837 $\pm$ 0.031 χ^2/NDF : 7508522.5/34

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF : 950233.2/24

Right Out: 168.101 $\pm$ 0.029 χ^2/NDF : 8035187.0/38

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

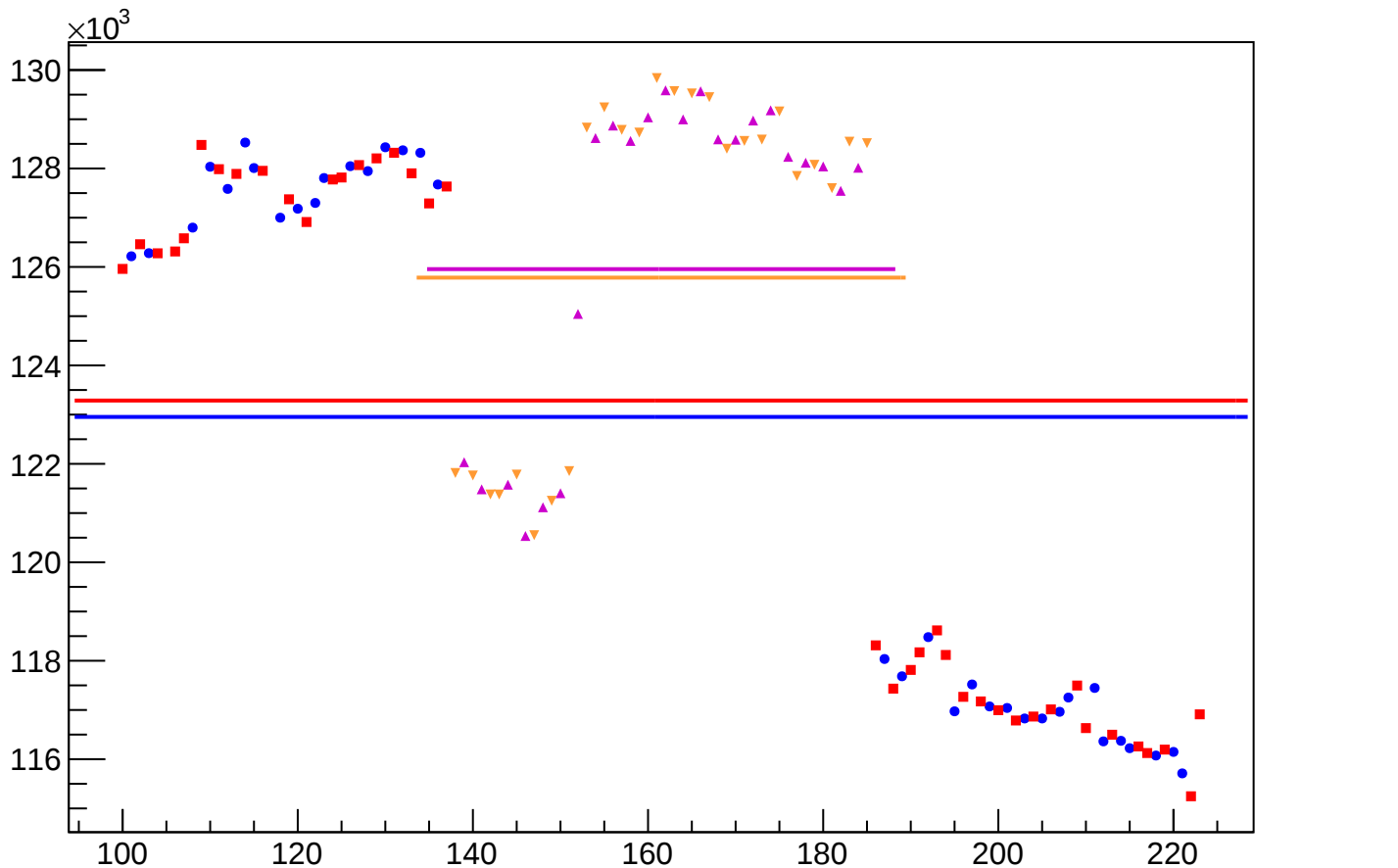
Right: 171.736 $\pm$ 0.021 χ^2/NDF : 15576219.8/73

In: 184.065 $\pm$ 0.023 χ^2/NDF : 8621650.0/57

Out: 178.359 $\pm$ 0.022 χ^2/NDF : 9250942.7/63

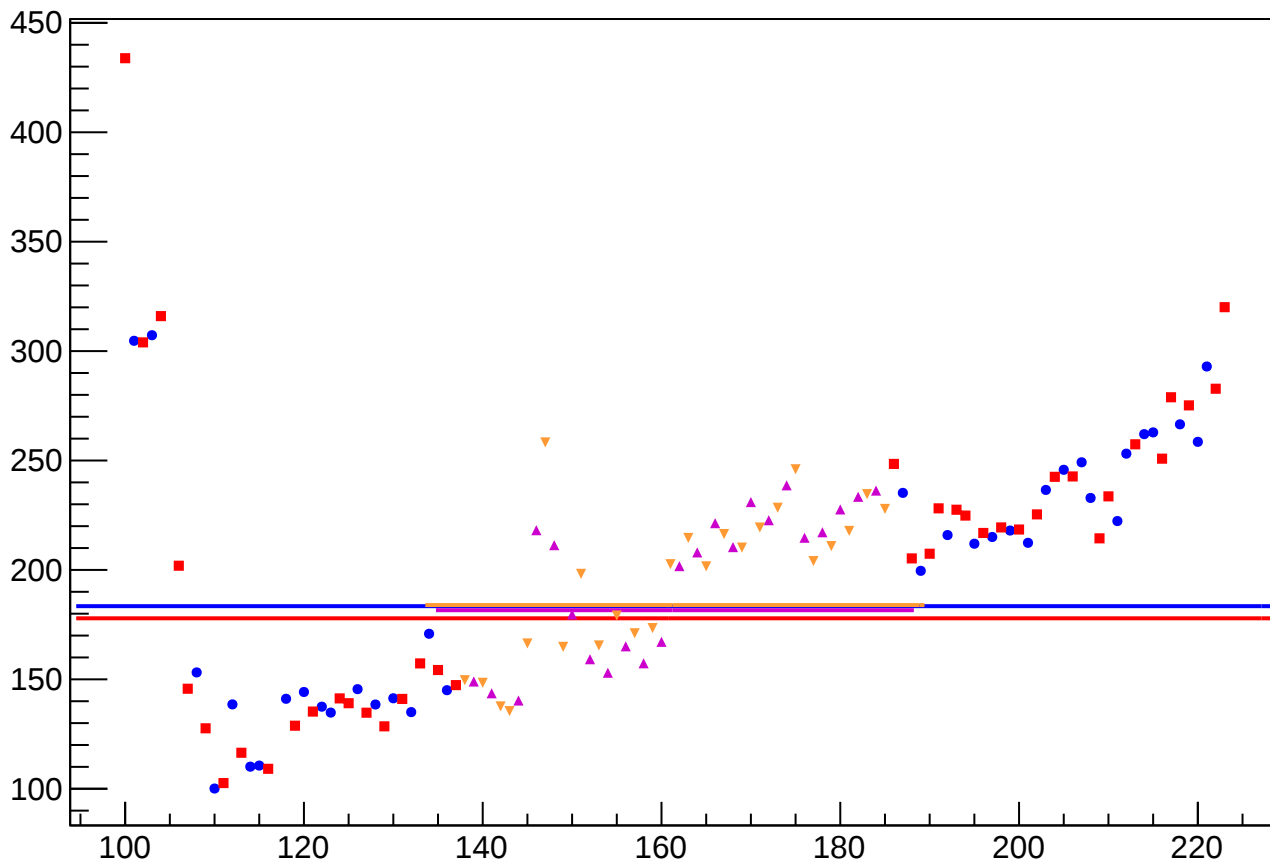
All: 181.056 $\pm$ 0.016 χ^2/NDF : 17905436.5/12

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 122953.134+/-0.043	χ^2/NDF : 15250627495.9/34	Left: 125867.639+/-0.031	χ^2/NDF : 12541428458.9/34
Left Out: 125782.764+/-0.044	χ^2/NDF : 6729761889.8/24	Right: 123126.623+/-0.030	χ^2/NDF : 31356145738.0/24
Right Out: 123286.018+/-0.042	χ^2/NDF : 16074858644.7/38	In: 124406.581+/-0.031	χ^2/NDF : 23371494027.7/5
Left In: 125955.637+/-0.045	χ^2/NDF : 5804088930.1/22	Out: 124464.366+/-0.030	χ^2/NDF : 24504619229.8/22
		All: 124436.361+/-0.022	χ^2/NDF : 4787778840.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 183.438 $\pm$ 0.031 χ^2 /NDF: 3331456.2/34

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF:1123194.0/24

Right Out: 177.889 $\pm$ 0.029 χ^2 /NDF: 3921623.3/38

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

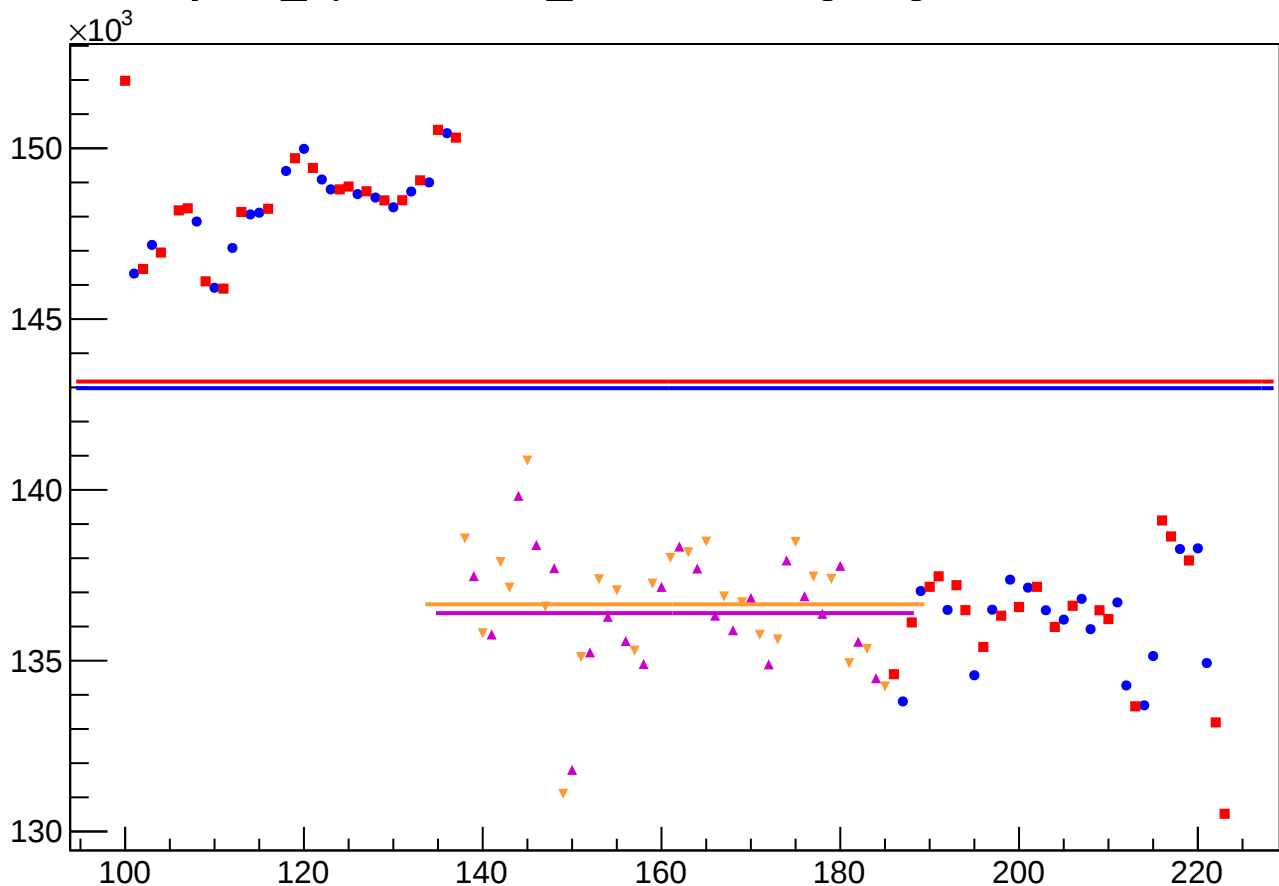
Right: 180.546 $\pm$ 0.021 χ^2 /NDF: 7270118.2/73

In: 182.546 $\pm$ 0.022 χ^2 /NDF:4436724.9/57

Out: 180.748 $\pm$ 0.021 χ^2 /NDF:5064831.7/63

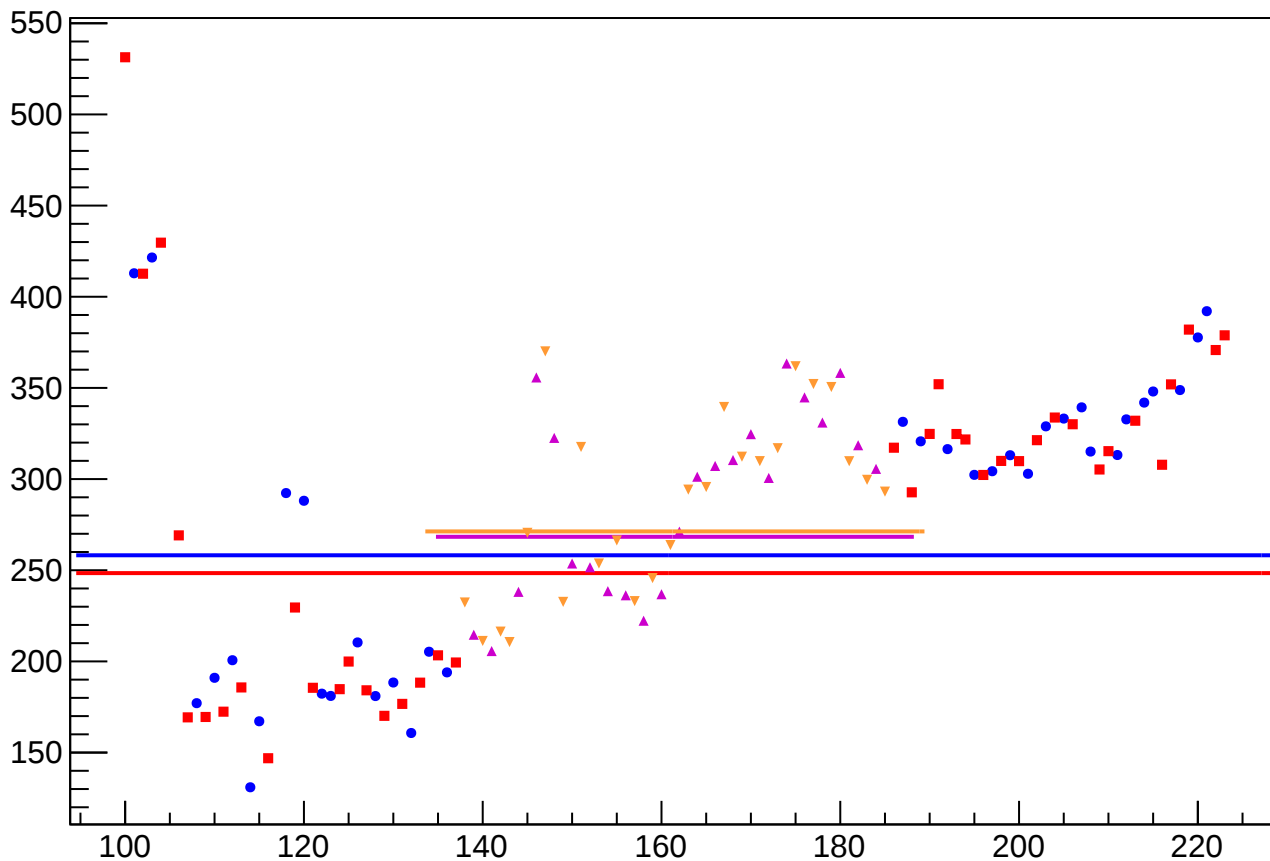
All: 181.619 $\pm$ 0.015 χ^2 /NDF: 9504986.3/123

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 142977.598 $\pm$ 0.061	χ^2 /NDF: 10520010428.4/34	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: 143080.015 $\pm$ 0.042	χ^2 /NDF: 21664922772.1
Right Out: 143172.181 $\pm$ 0.058	χ^2 /NDF: 11139556856.8/38	In: 139942.062 $\pm$ 0.045	χ^2 /NDF: 16594074038.3/5
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140270.238 $\pm$ 0.043	χ^2 /NDF: 17721436270.9
		All: 140112.407 $\pm$ 0.031	χ^2 /NDF: 343433797

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 258.205 $\pm$ 0.043 χ^2 /NDF: 3249003.1/34

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 248.427 $\pm$ 0.041 χ^2 /NDF: 3530951.9/38

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

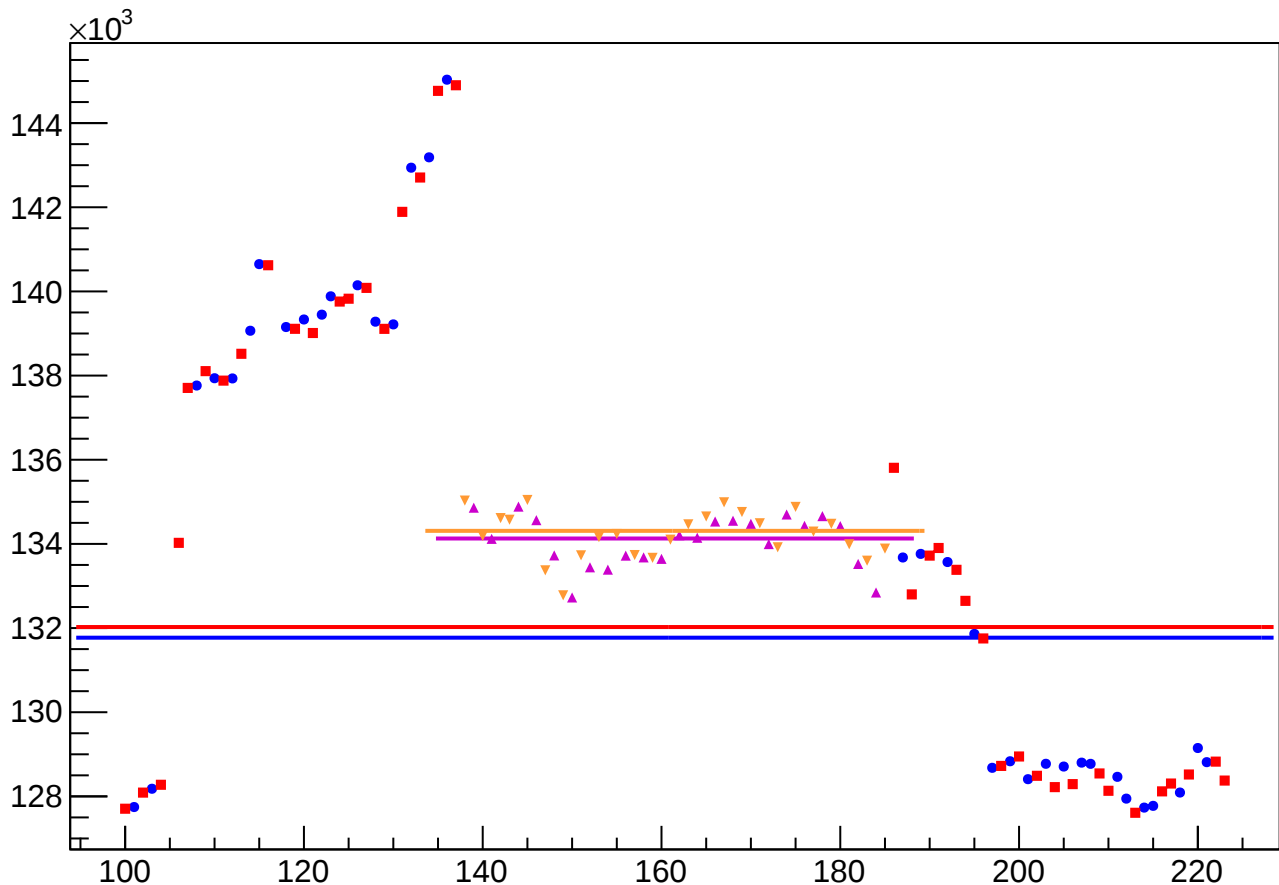
Right: 253.059 $\pm$ 0.030 χ^2 /NDF: 6807000.2/73

In: 262.878 $\pm$ 0.032 χ^2 /NDF:4351832.1/57

Out: 258.604 $\pm$ 0.030 χ^2 /NDF:4734418.5/63

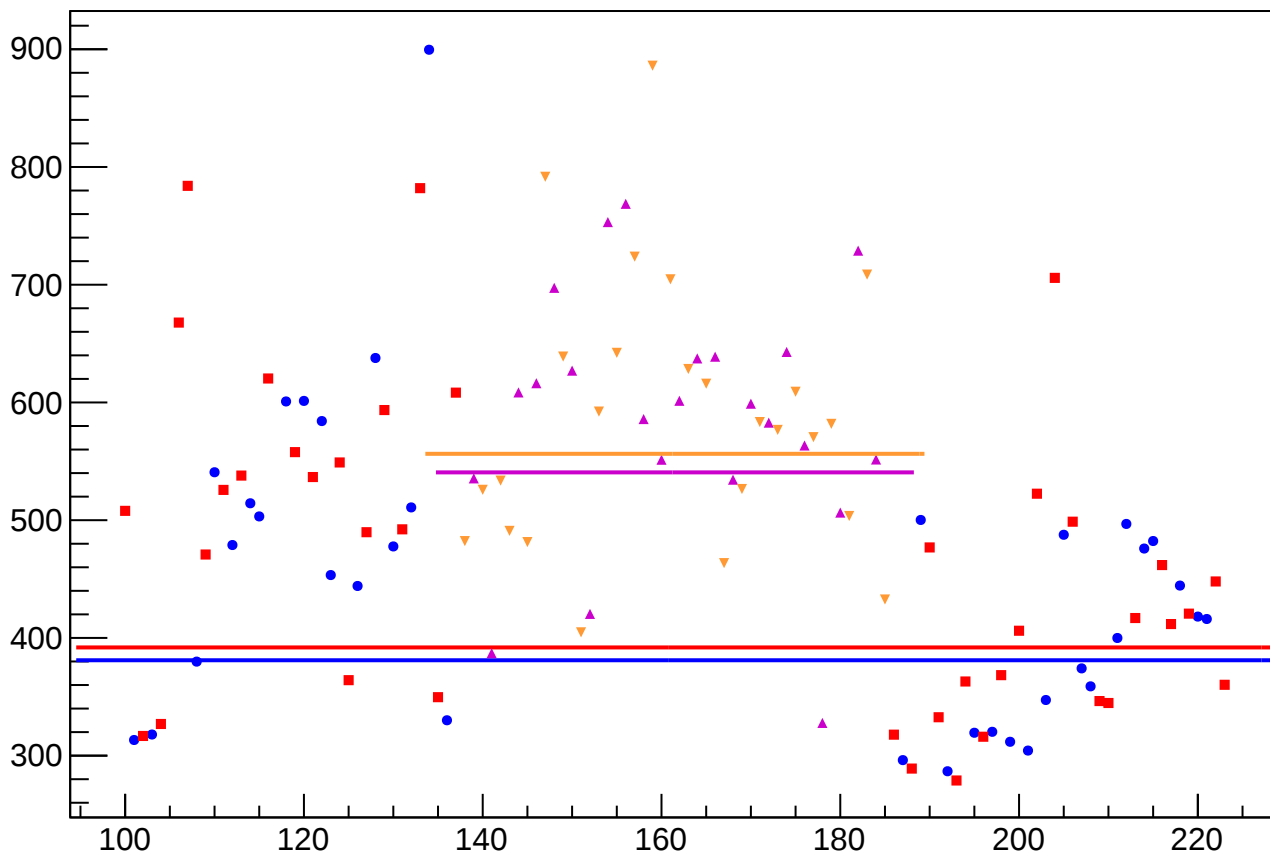
All: 260.659 $\pm$ 0.022 χ^2 /NDF: 9095708.3/123

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 131771.402 $\pm$ 0.096	χ^2/NDF : 2908867810.7/34	Left: 134221.438 $\pm$ 0.099	χ^2/NDF : 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2/NDF : 15518632.9/24	Right: 131895.216 $\pm$ 0.069	χ^2/NDF : 5085234704.7/
Right Out: 132024.407 $\pm$ 0.099	χ^2/NDF : 2172998247.2/38	In: 132515.334 $\pm$ 0.080	χ^2/NDF : 3112942976.7/5
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 132791.842 $\pm$ 0.080	χ^2/NDF : 2369310348.3/6
		All: 132652.708 $\pm$ 0.057	χ^2/NDF : 548822219

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 381.033+/-0.068 χ^2/NDF : 1595332.1/34

Left Out: 556.381+/-0.098 χ^2/NDF : 1002064.0/24

Right Out: 391.923+/-0.070 χ^2/NDF : 2001531.9/38

Left In: 540.607+/-0.100 χ^2/NDF : 1409015.2/22

Left: 548.687+/-0.070 χ^2/NDF : 2423723.9/47

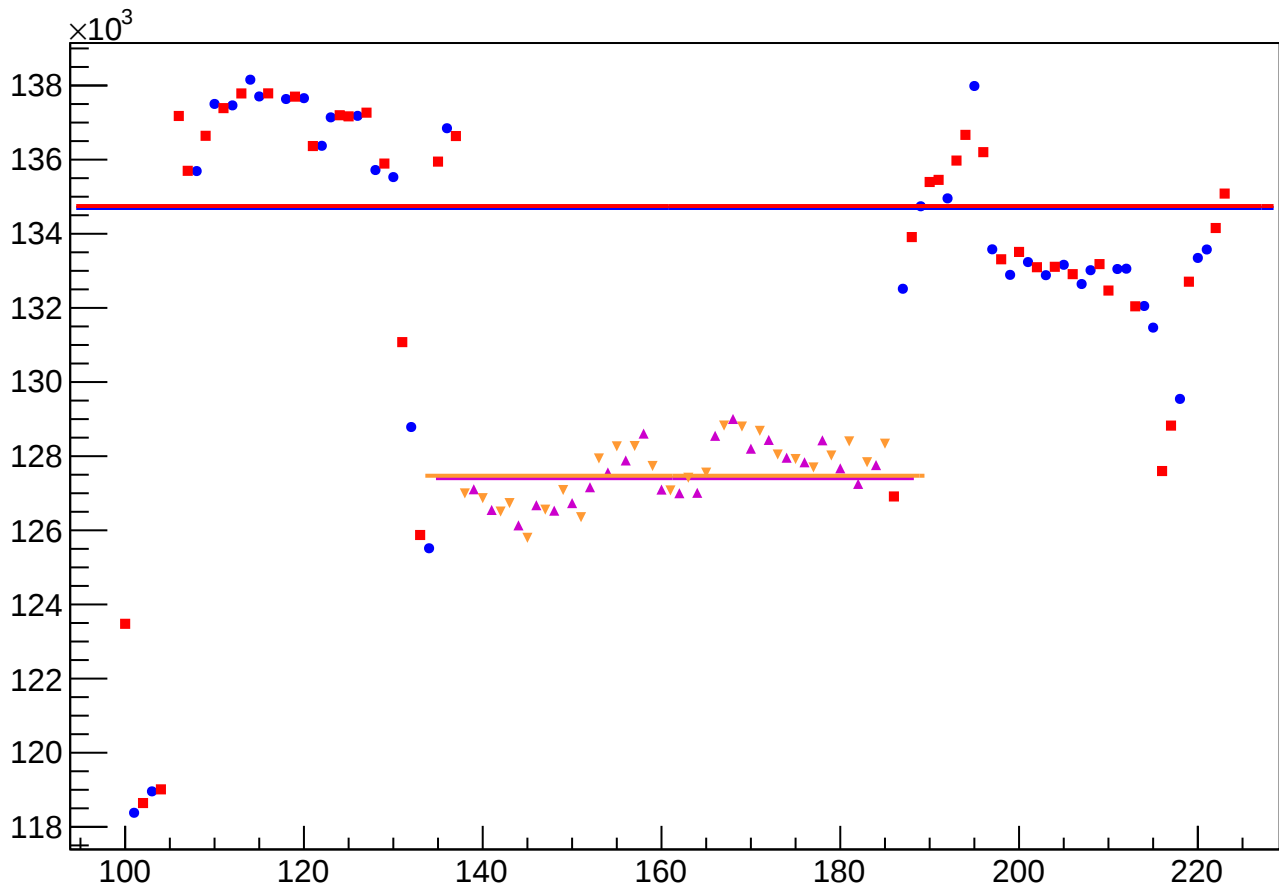
Right: 386.363+/-0.049 χ^2/NDF : 3609345.5/73

In: 431.404+/-0.056 χ^2/NDF : 4733066.2/57

Out: 447.137+/-0.057 χ^2/NDF : 4875277.3/63

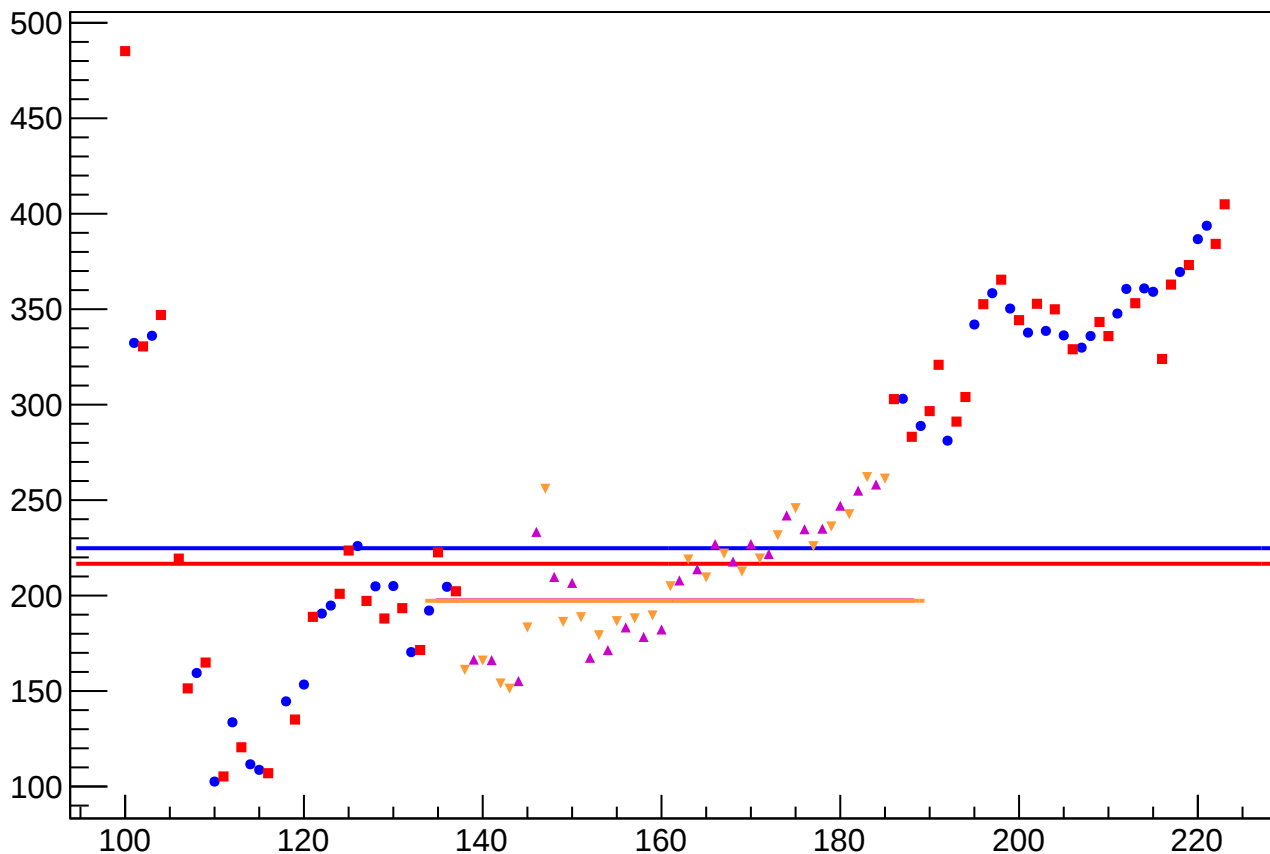
All: 439.221+/-0.040 χ^2/NDF : 9646994.0/123

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134695.741 $\pm$ 0.055	χ^2 /NDF: 5193914045.5/34	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: 134723.382 $\pm$ 0.038	χ^2 /NDF: 11098496532.1/10
Right Out: 134748.342 $\pm$ 0.053	χ^2 /NDF: 5904109273.2/38	In: 130557.380 $\pm$ 0.036	χ^2 /NDF: 15281368885.6/5
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130686.613 $\pm$ 0.035	χ^2 /NDF: 16859282024.1/10
		All: 130624.587 $\pm$ 0.025	χ^2 /NDF: 321471911.1/10

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 224.813 ± 0.039 $\chi^2/\text{NDF}: 6013430.8/34$

Left Out: 197.289 ± 0.033 $\chi^2/\text{NDF}: 852024.1/24$

Right Out: 216.653 ± 0.037 $\chi^2/\text{NDF}: 6481793.4/38$

Left In: 197.471 ± 0.034 $\chi^2/\text{NDF}: 791577.5/22$

Left: 197.377 ± 0.024 $\chi^2/\text{NDF}: 1643616.2/47$

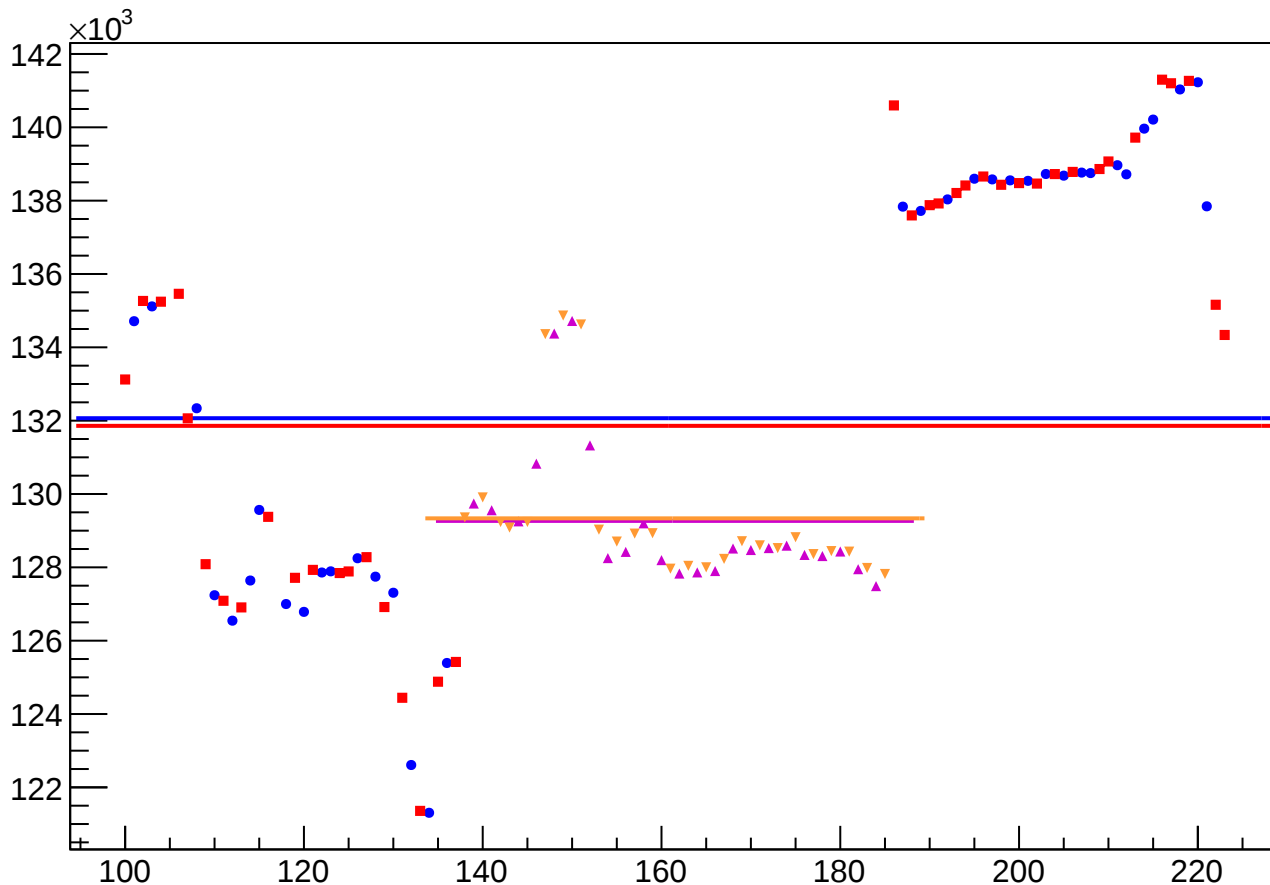
Right: 220.525 ± 0.027 $\chi^2/\text{NDF}: 12518001.3/73$

In: 209.289 ± 0.026 $\chi^2/\text{NDF}: 7081310.6/57$

Out: 205.843 ± 0.025 $\chi^2/\text{NDF}: 7484708.1/63$

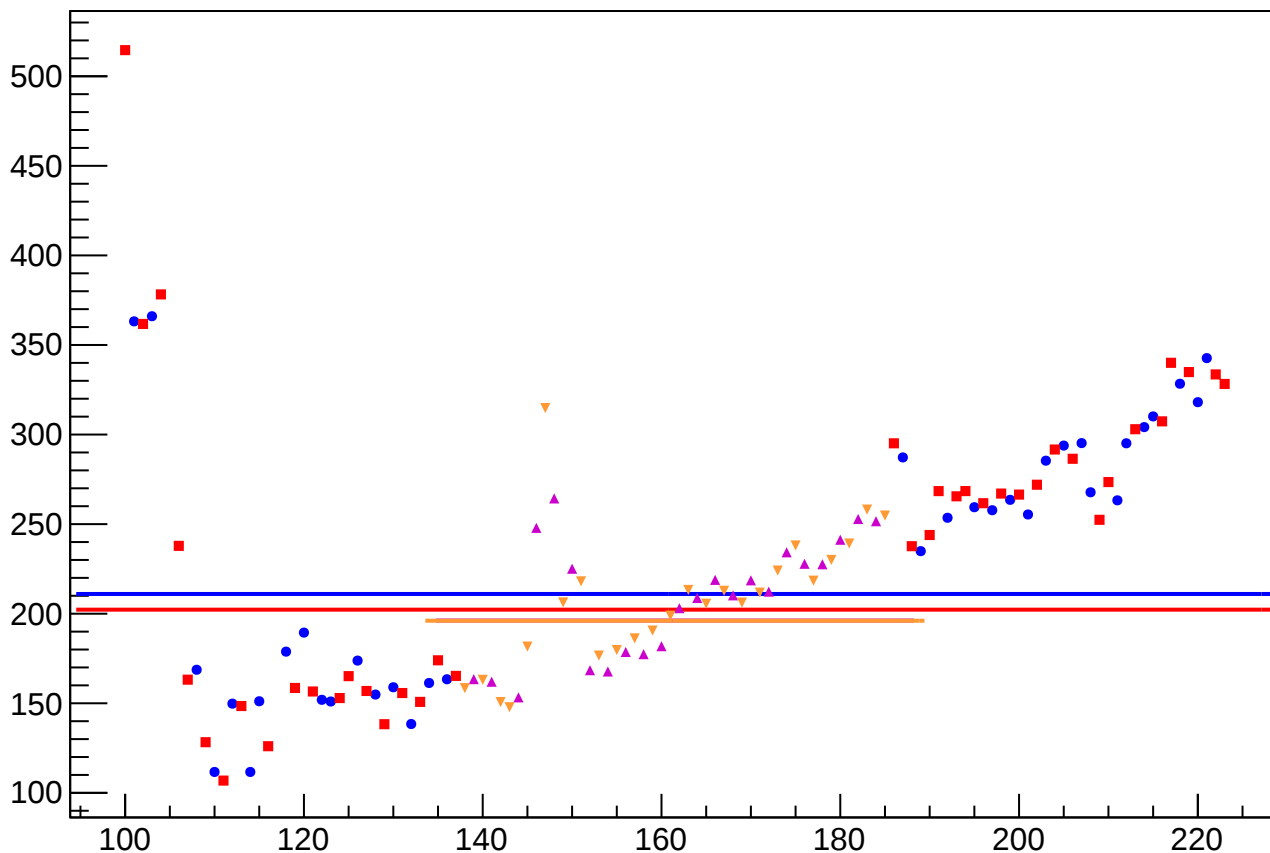
All: 207.497 ± 0.018 $\chi^2/\text{NDF}: 14575318.9/12$

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 132066.938 $\pm$ 0.050	χ^2 /NDF: 15141735279.3/34	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: 131957.471 $\pm$ 0.035	χ^2 /NDF: 30697807374.0/24
Right Out: 131858.740 $\pm$ 0.048	χ^2 /NDF: 15547130397.1/38	In: 130600.784 $\pm$ 0.035	χ^2 /NDF: 17966155761.4/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130564.859 $\pm$ 0.033	χ^2 /NDF: 18417992475.7/22
		All: 130582.095 $\pm$ 0.024	χ^2 /NDF: 363847011.0/22

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 211.014 $\pm$ 0.036 χ^2 /NDF: 3928657.5/34

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 202.260 $\pm$ 0.034 χ^2 /NDF: 4695166.4/38

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

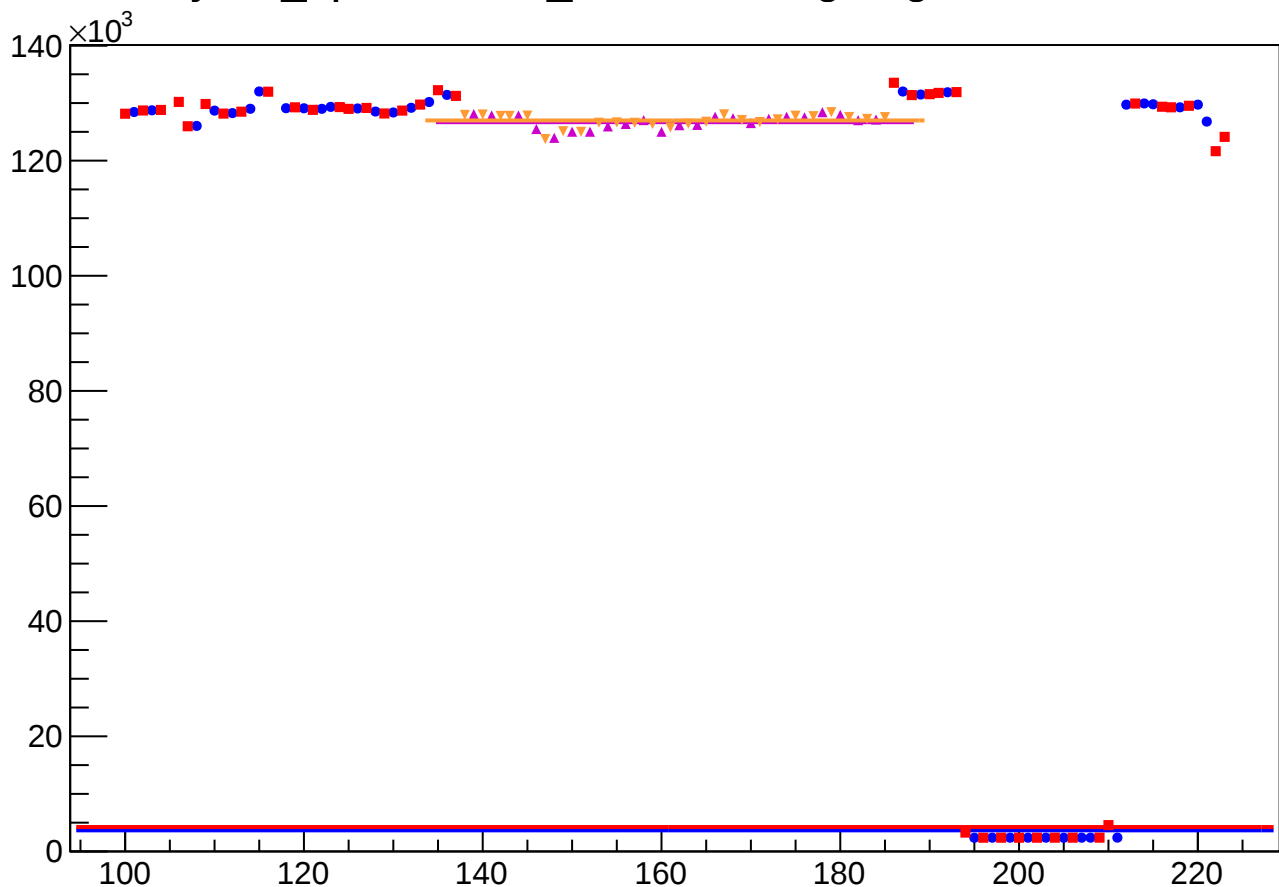
Right: 206.412 $\pm$ 0.025 χ^2 /NDF: 8655443.0/73

In: 203.250 $\pm$ 0.025 χ^2 /NDF: 4917058.5/57

Out: 199.089 $\pm$ 0.024 χ^2 /NDF: 5687933.9/63

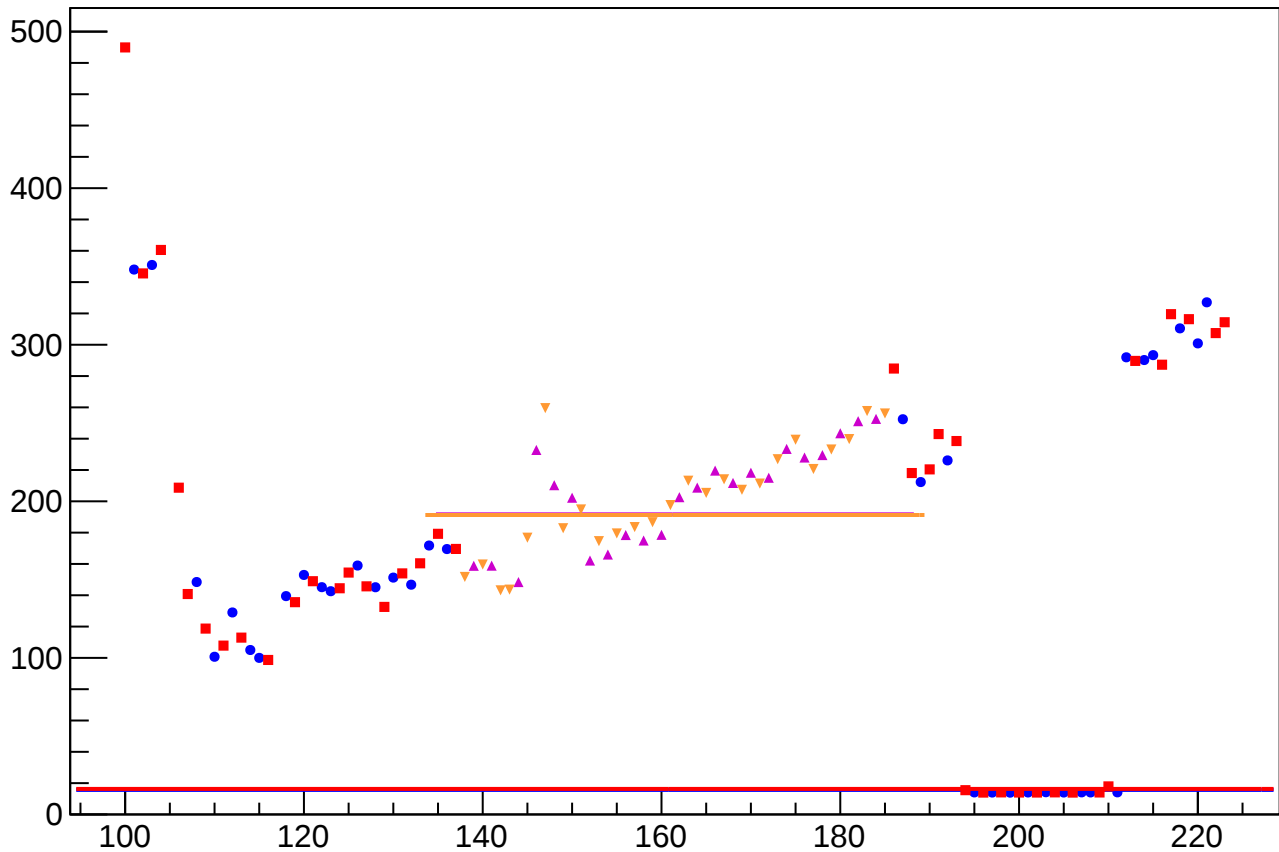
All: 201.085 $\pm$ 0.017 χ^2 /NDF: 10619827.9/12

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3667.740+/-0.005	χ^2/NDF : 5689295007252.8/34	Left: 126836.943+/-0.033	χ^2/NDF : 1211882944.2/4
Left Out: 126981.724+/-0.046	χ^2/NDF : 530573115.8/24	Right: 3926.199+/-0.004	χ^2/NDF : 12179198915321
Right Out: 4239.331+/-0.006	χ^2/NDF : 6484663731430.6/38	In: 5218.400+/-0.005	χ^2/NDF : 12456138887845.6
Left In: 126682.659+/-0.047	χ^2/NDF : 660415880.0/22	Out: 6229.585+/-0.006	χ^2/NDF : 13637316854624.
		All: 5676.549+/-0.004	χ^2/NDF : 26110098160

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.680 $\pm$ 0.004 χ^2 /NDF: 21671903.1/34

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 16.312 $\pm$ 0.004 χ^2 /NDF: 22957255.9/38

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

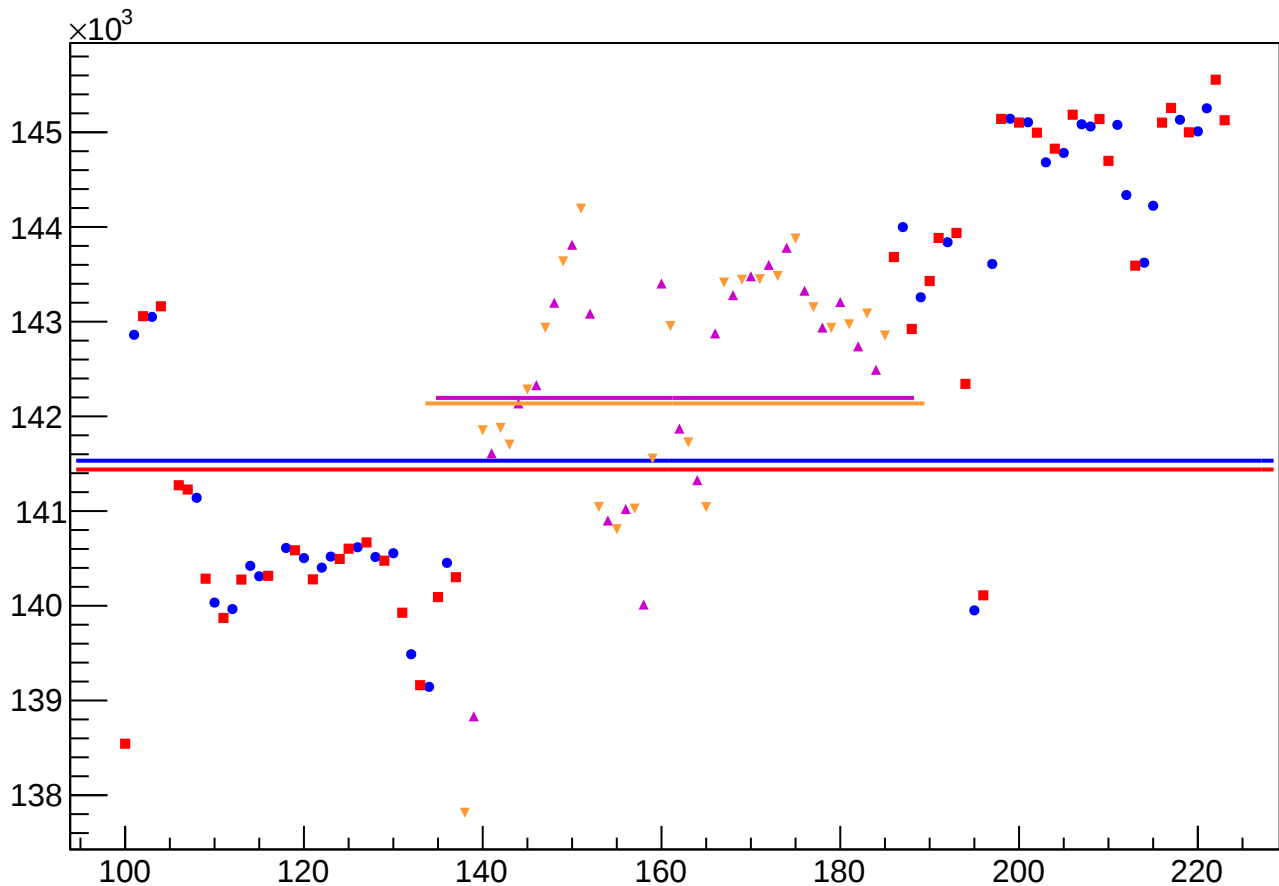
Right: 15.966 $\pm$ 0.003 χ^2 /NDF: 44641992.3/73

In: 17.898 $\pm$ 0.004 χ^2 /NDF: 50237417.0/57

Out: 19.149 $\pm$ 0.004 χ^2 /NDF: 53010634.8/63

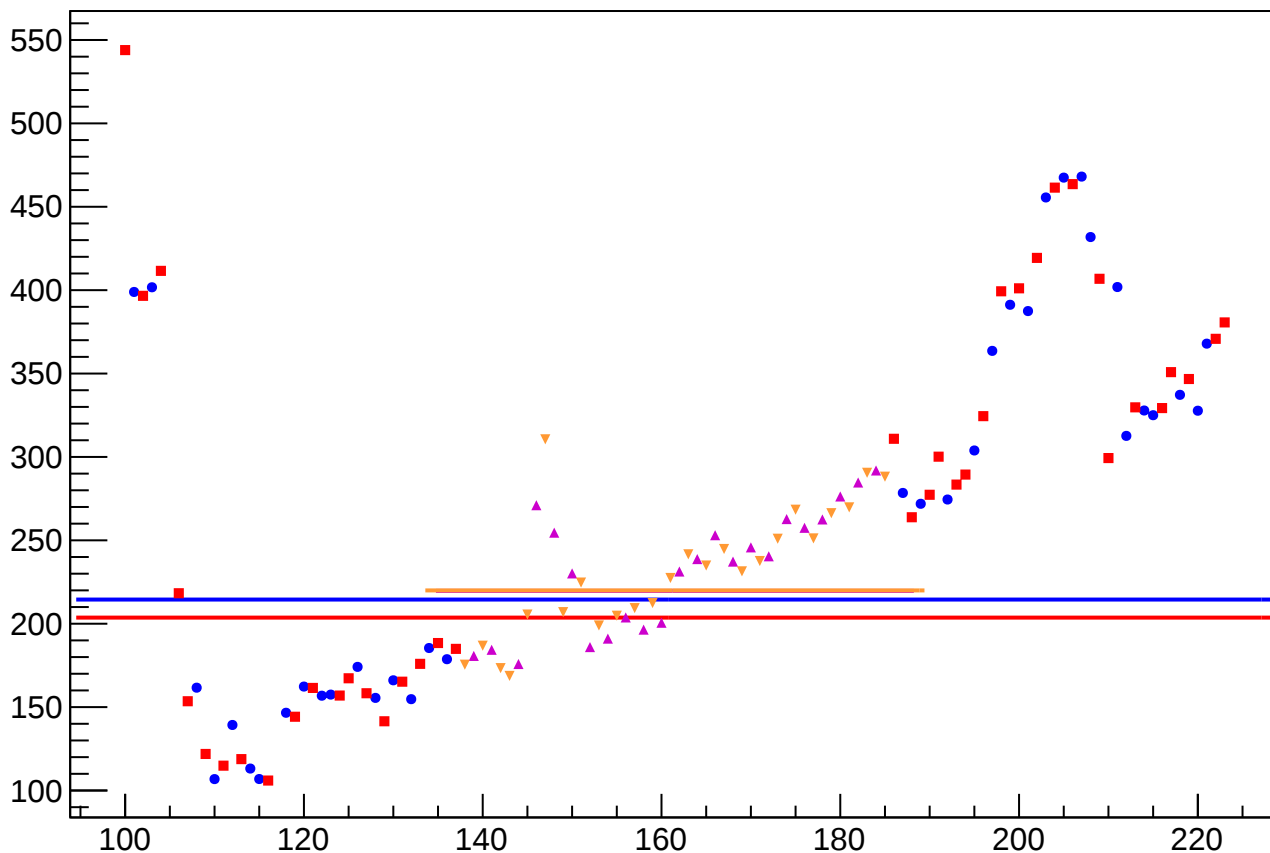
All: 18.465 $\pm$ 0.003 χ^2 /NDF: 103298973.7/12

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141532.039 $\pm$ 0.054	χ^2 /NDF: 1302898487.7/34	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: 141482.403 $\pm$ 0.037	χ^2 /NDF: 2710296161.9/6
Right Out: 141438.832 $\pm$ 0.050	χ^2 /NDF: 1405793128.0/38	In: 141862.511 $\pm$ 0.038	χ^2 /NDF: 2022915015.8/5
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141774.004 $\pm$ 0.036	χ^2 /NDF: 2313766345.5/6
		All: 141816.160 $\pm$ 0.026	χ^2 /NDF: 433951824

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 214.490 $\pm$ 0.038 χ^2 /NDF: 7179111.2/34

Left Out: 219.969 $\pm$ 0.037 χ^2 /NDF: 866616.3/24

Right Out: 203.665 $\pm$ 0.036 χ^2 /NDF: 7739276.0/38

Left In: 219.685 $\pm$ 0.038 χ^2 /NDF: 812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2 /NDF: 1679390.1/47

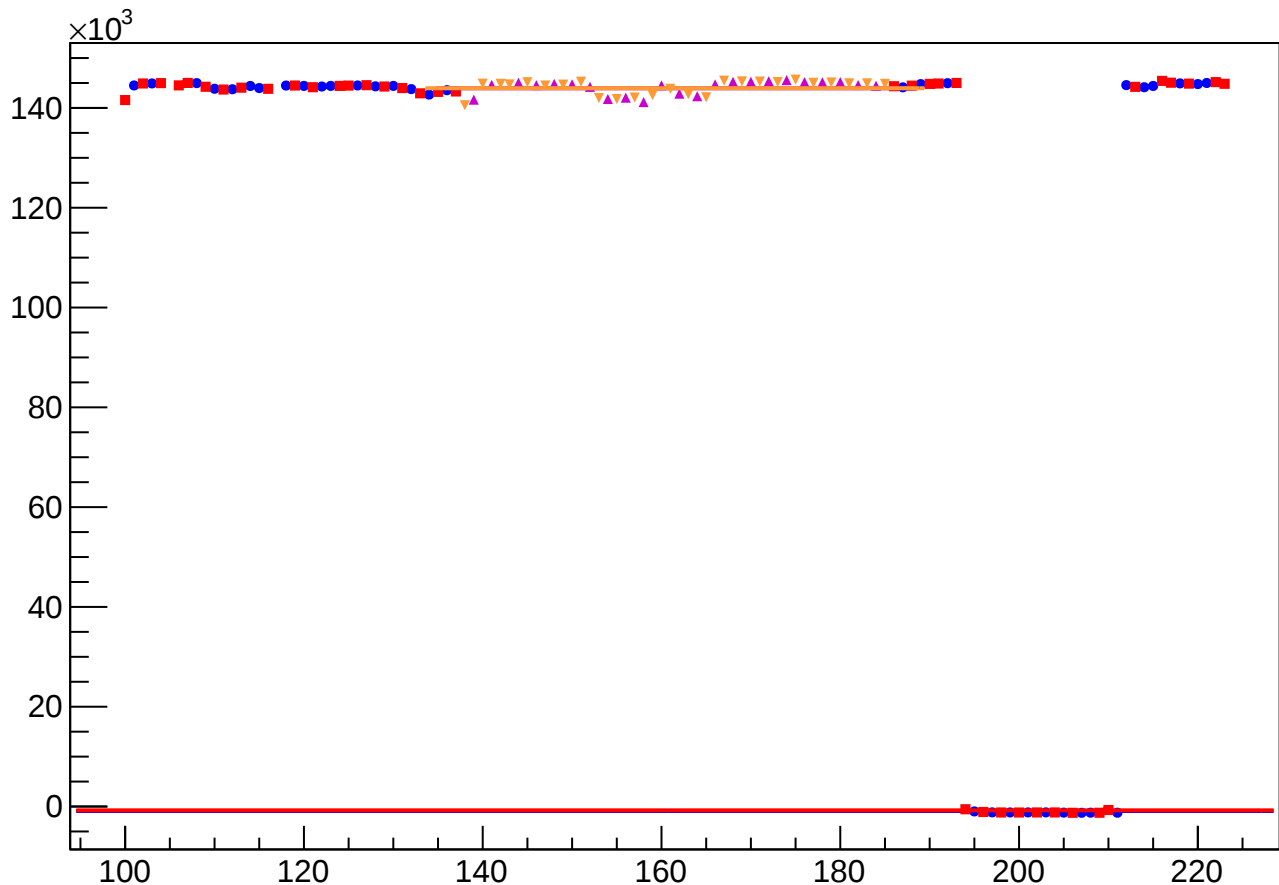
Right: 208.726 $\pm$ 0.026 χ^2 /NDF: 14961672.6/73

In: 217.080 $\pm$ 0.027 χ^2 /NDF: 8001184.2/57

Out: 211.497 $\pm$ 0.026 χ^2 /NDF: 8706790.2/63

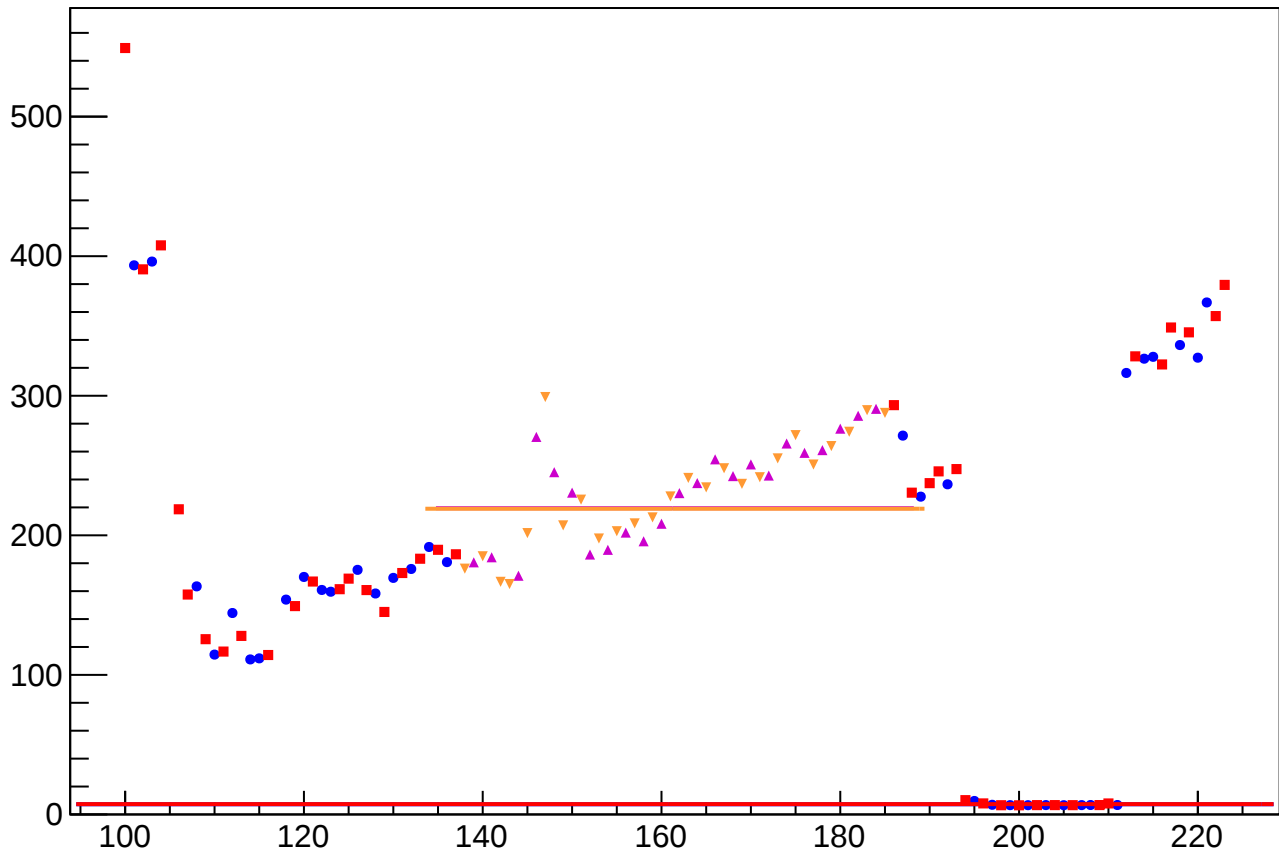
All: 214.156 $\pm$ 0.019 χ^2 /NDF: 16730545.8/12

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -898.504 ± 0.003 $\chi^2/\text{NDF}: 6182678808711.6/34$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/34$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -838.332 ± 0.002 $\chi^2/\text{NDF}: 13325313109576$
 Right Out: -765.790 ± 0.003 $\chi^2/\text{NDF}: 7141484709943.2/38$ In: -552.266 ± 0.003 $\chi^2/\text{NDF}: 13402596315811.1/38$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: -321.278 ± 0.003 $\chi^2/\text{NDF}: 14823627420269.6/38$
 All: -447.499 ± 0.002 $\chi^2/\text{NDF}: 28229715831$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.286 $\pm$ 0.002 χ^2 /NDF: 23825490.5/34

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.400 $\pm$ 0.002 χ^2 /NDF: 25328317.3/38

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

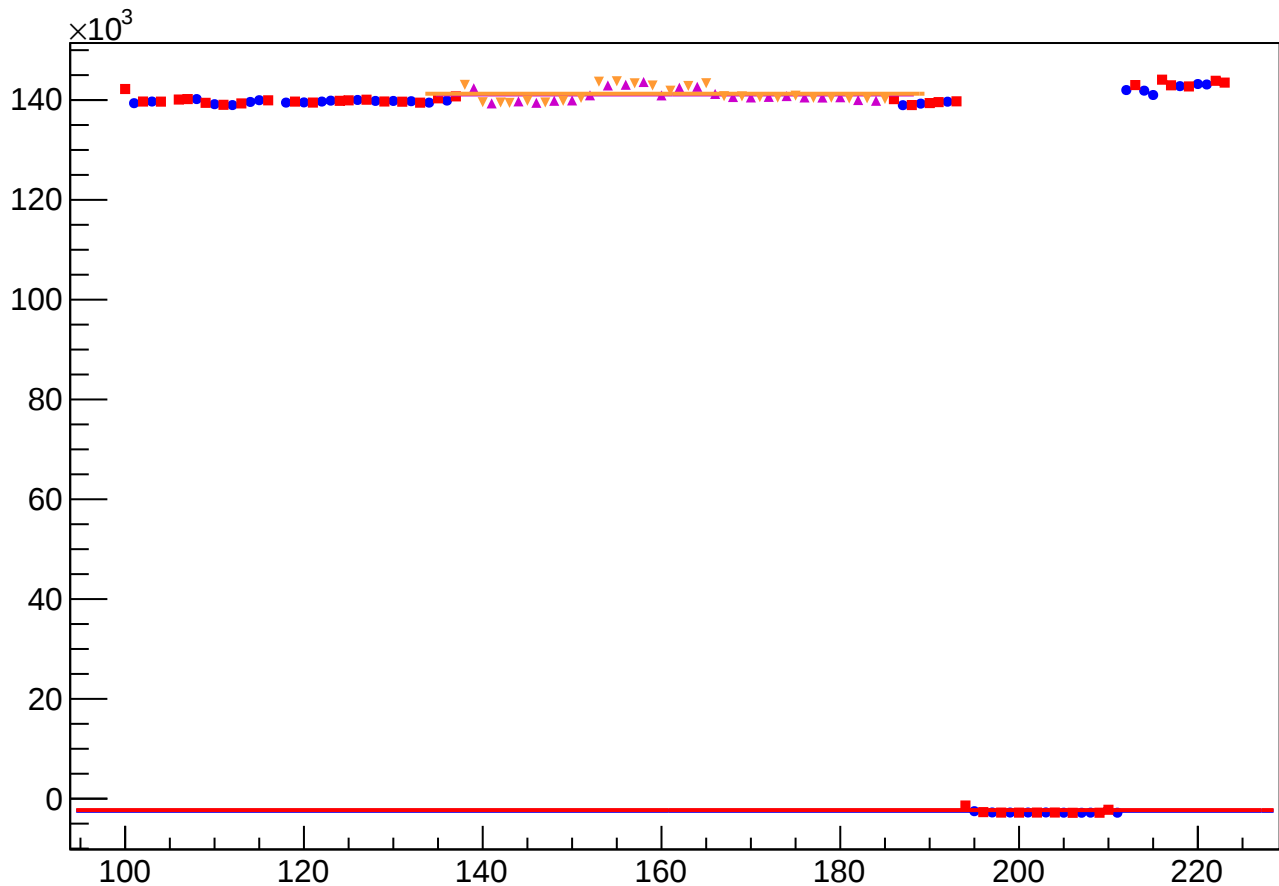
Right: 7.338 $\pm$ 0.001 χ^2 /NDF: 49155503.2/73

In: 7.794 $\pm$ 0.002 χ^2 /NDF:55650031.3/57

Out: 8.050 $\pm$ 0.002 χ^2 /NDF:59121989.8/63

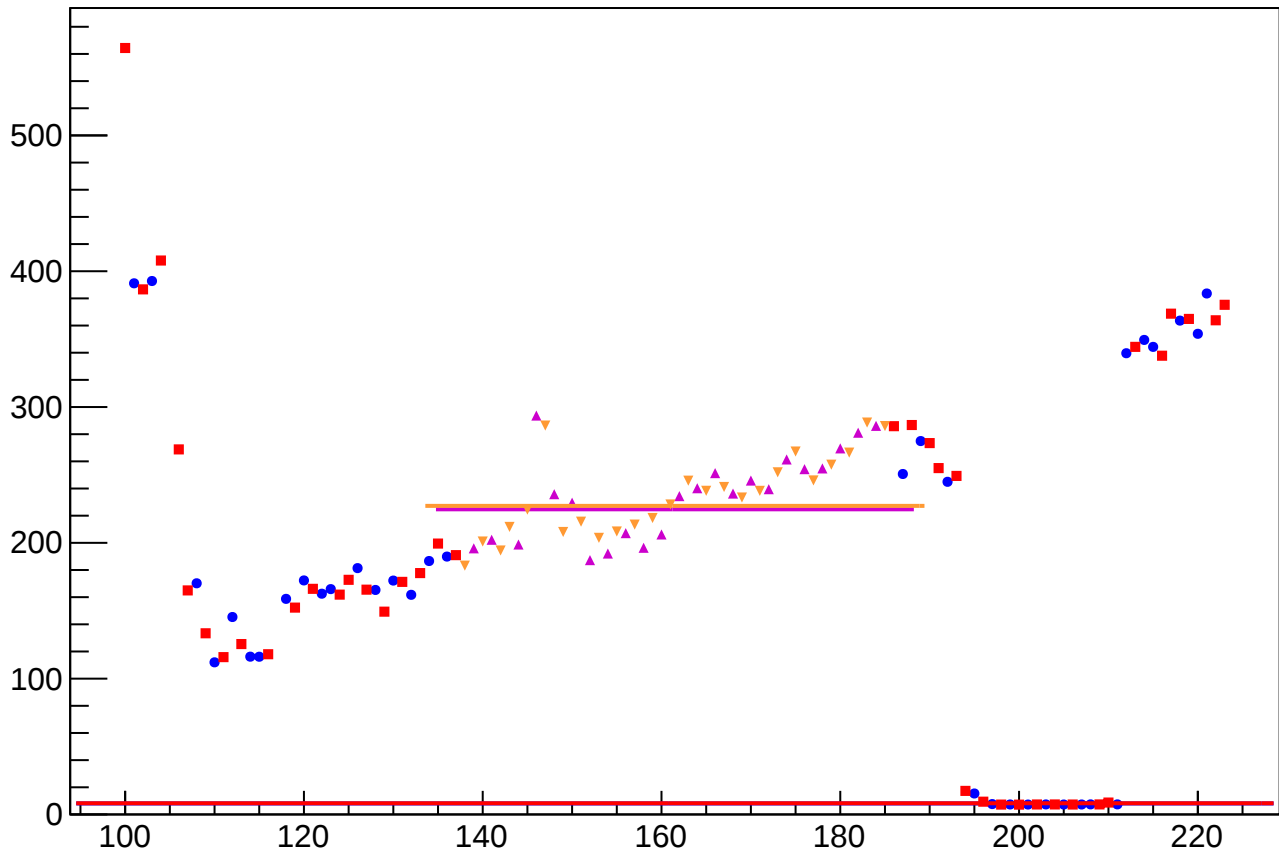
All: 7.910 $\pm$ 0.001 χ^2 /NDF: 114780662.7/121

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2435.681+/-0.003	χ^2/NDF : 5634247299933.8/34	Left: 141195.809+/-0.038	χ^2/NDF : 1365080862.2/4
Left Out: 141268.791+/-0.054	χ^2/NDF : 795989244.2/24	Right: -2368.596+/-0.002	χ^2/NDF : 1210640315761
Right Out: -2287.673+/-0.003	χ^2/NDF : 6471014409367.9/38	In: -2022.783+/-0.003	χ^2/NDF : 12448858974117.3
Left In: 141119.484+/-0.055	χ^2/NDF : 565312728.1/22	Out: -1767.188+/-0.003	χ^2/NDF : 13592728702730
		All: -1906.885+/-0.002	χ^2/NDF : 2604500290

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.092 ± 0.002 χ^2/NDF : 23957229.4/34

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.240 ± 0.002 χ^2/NDF : 25339942.4/38

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

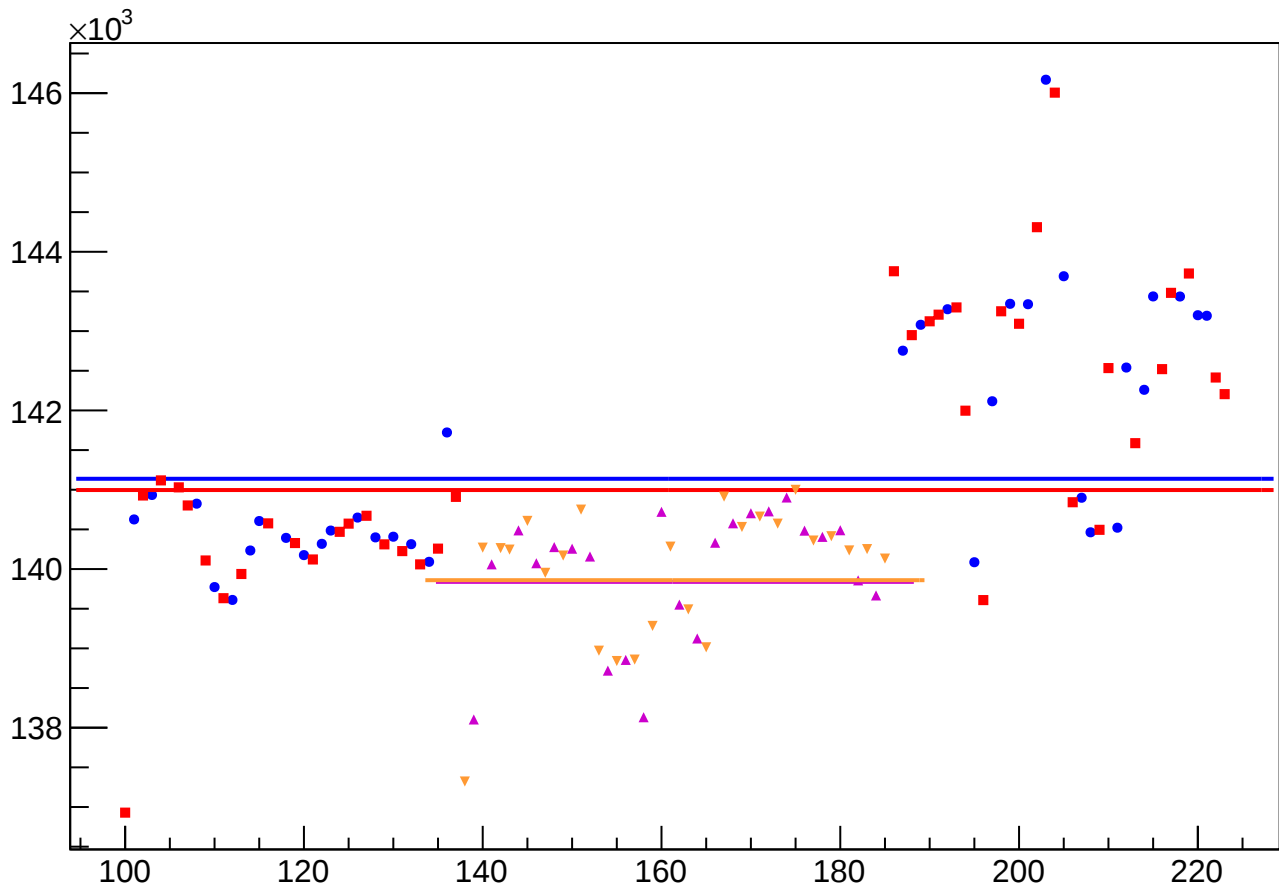
Right: 8.159 ± 0.002 χ^2/NDF : 49299462.7/73

In: 8.715 ± 0.002 χ^2/NDF : 55559221.5/57

Out: 9.034 ± 0.002 χ^2/NDF : 58964331.4/63

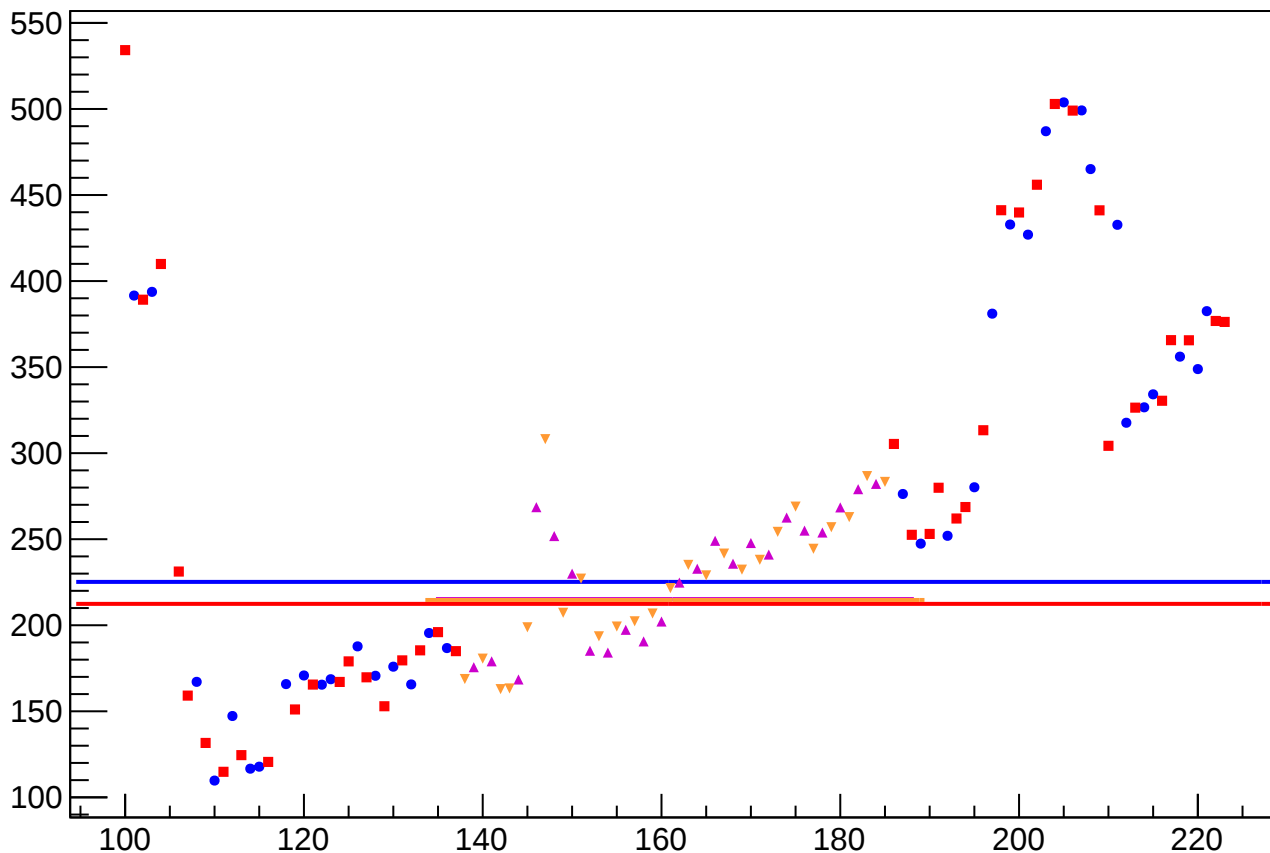
All: 8.860 ± 0.002 χ^2/NDF : 114534209.4/121

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 141138.201 $\pm$ 0.056	χ^2/NDF : 589520277.8/34	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: 141061.989 $\pm$ 0.038	χ^2/NDF : 1239420772.9/61
Right Out: 140996.278 $\pm$ 0.052	χ^2/NDF : 646474529.8/38	In: 140448.089 $\pm$ 0.038	χ^2/NDF : 1153147400.2/57
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140416.136 $\pm$ 0.037	χ^2/NDF : 1218822839.4/61
		All: 140431.273 $\pm$ 0.026	χ^2/NDF : 237233317.1/104

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 225.194+/-0.040 χ^2/NDF : 6863251.0/34

Left Out: 214.693+/-0.036 χ^2/NDF : 981105.5/24

Right Out: 212.423+/-0.037 χ^2/NDF : 7281466.1/38

Left In: 215.222+/-0.037 χ^2/NDF : 881945.0/22

Left: 214.949+/-0.026 χ^2/NDF : 1863154.2/47

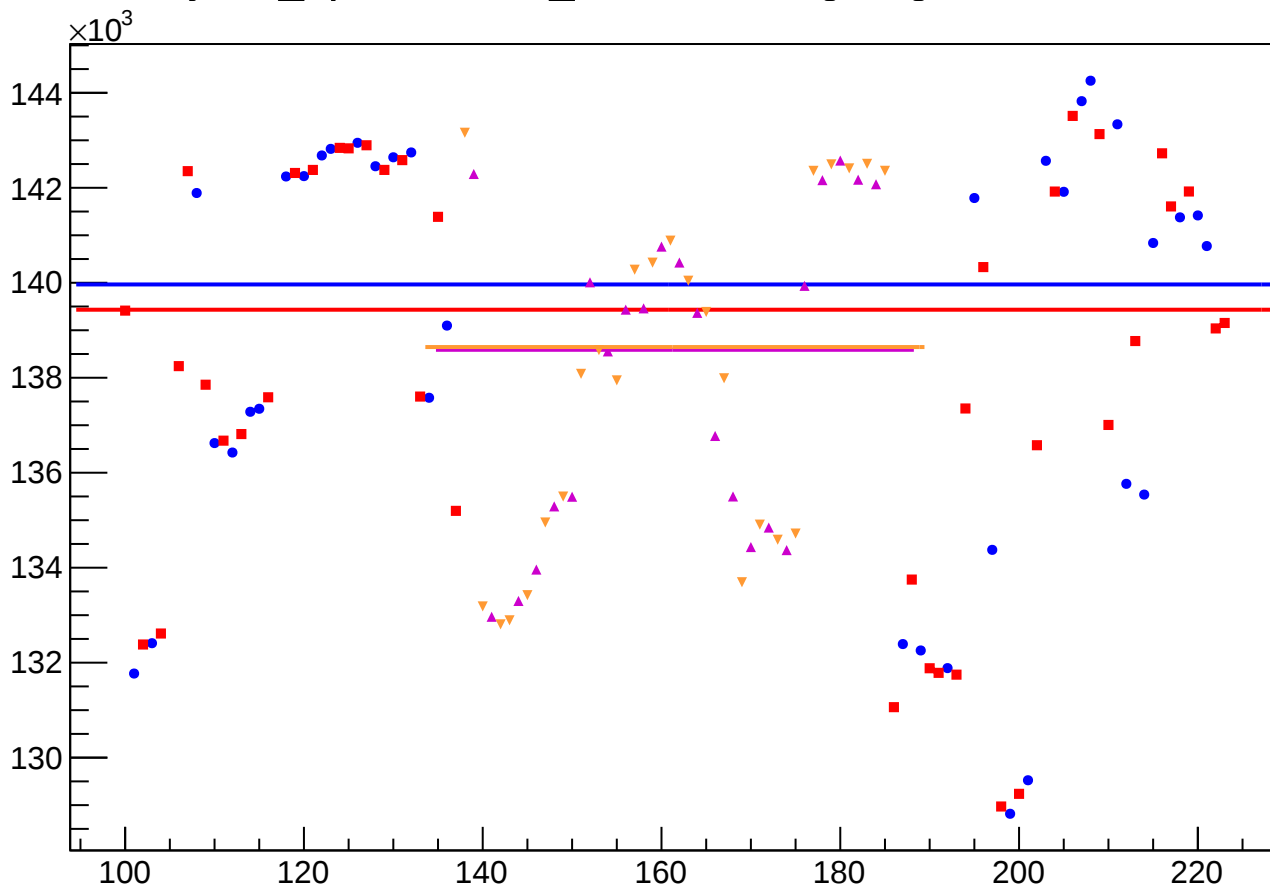
Right: 218.336+/-0.027 χ^2/NDF : 14200202.4/73

In: 219.898+/-0.027 χ^2/NDF : 7778653.3/57

Out: 213.581+/-0.026 χ^2/NDF : 8264503.8/63

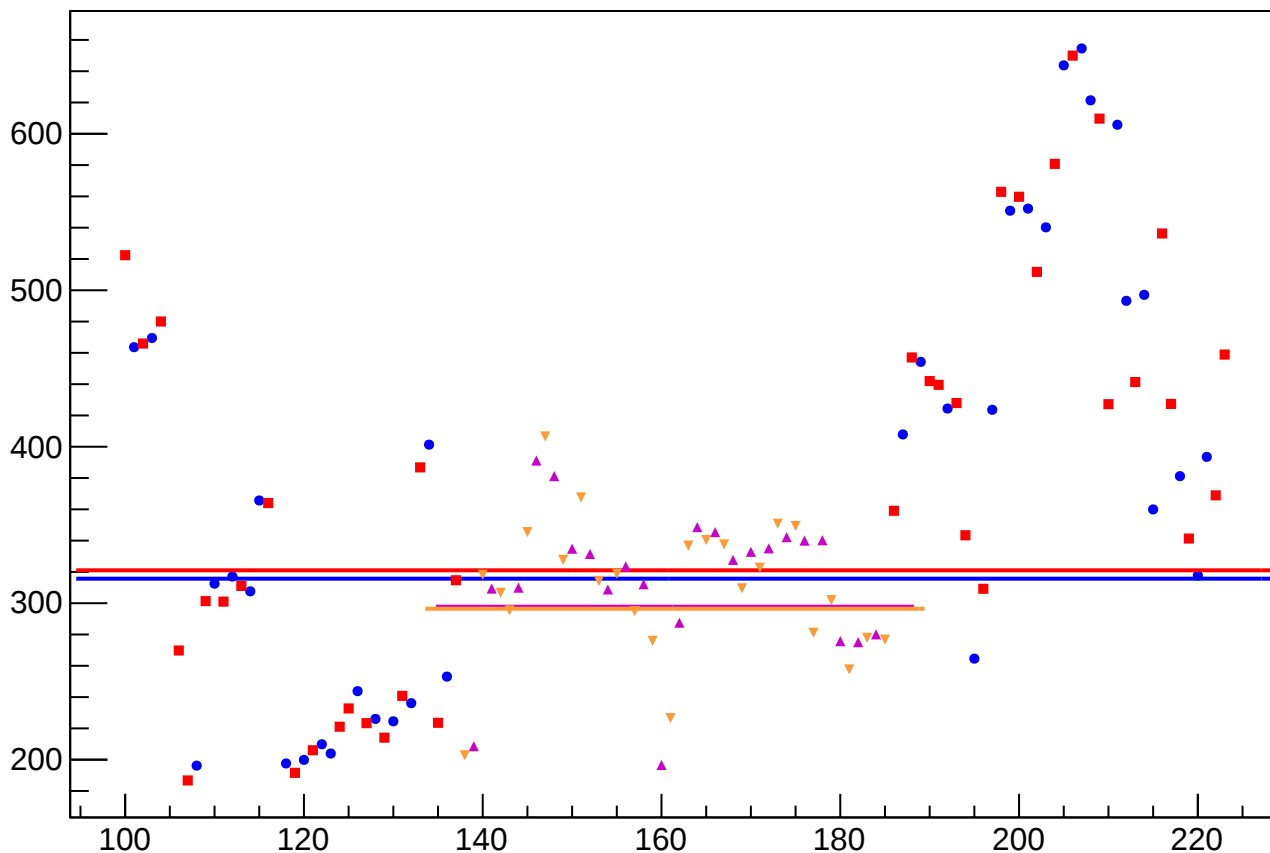
All: 216.574+/-0.019 χ^2/NDF : 16071524.1/12

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139964.571 $\pm$ 0.077	χ^2/NDF : 2425771839.9/34	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: 139696.136 $\pm$ 0.054	χ^2/NDF : 4978527750.7/
Right Out: 139432.588 $\pm$ 0.076	χ^2/NDF : 2528772895.6/38	In: 139244.714 $\pm$ 0.053	χ^2/NDF : 4540173590.4/5
Left In: 138588.711 $\pm$ 0.074	χ^2/NDF : 1948065195.1/22	Out: 139009.586 $\pm$ 0.052	χ^2/NDF : 5134299952.1/6
		All: 139124.216 $\pm$ 0.037	χ^2/NDF : 968445329

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 315.672 ± 0.055 $\chi^2/\text{NDF}: 5092527.7/34$

Left Out: 296.464 ± 0.050 $\chi^2/\text{NDF}: 893579.7/24$

Right Out: 321.030 ± 0.054 $\chi^2/\text{NDF}: 4812814.6/38$

Left In: 297.774 ± 0.052 $\chi^2/\text{NDF}: 1061489.5/22$

Left: 297.094 ± 0.036 $\chi^2/\text{NDF}: 1955397.8/47$

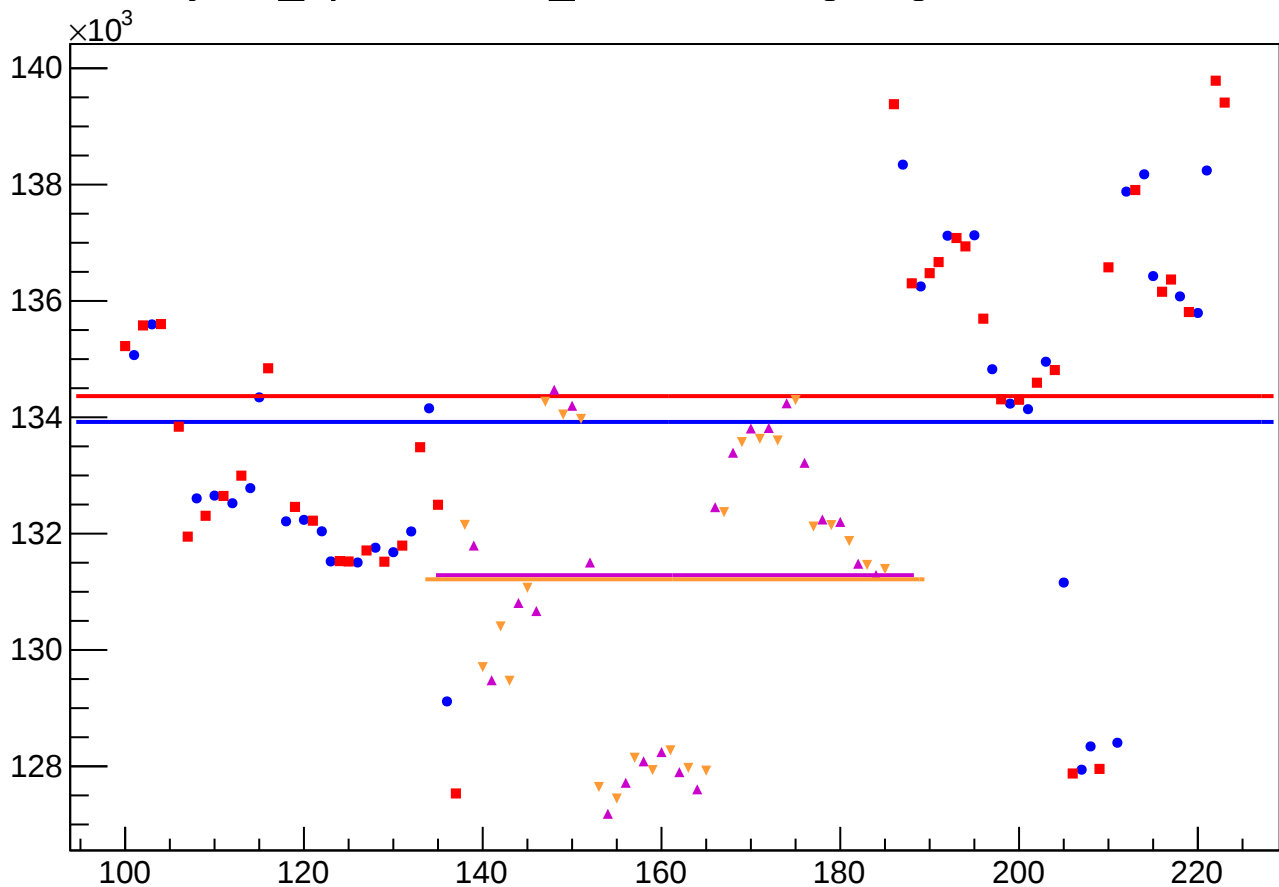
Right: 318.376 ± 0.038 $\chi^2/\text{NDF}: 9910207.5/73$

In: 306.308 ± 0.038 $\chi^2/\text{NDF}: 6210312.4/57$

Out: 307.813 ± 0.037 $\chi^2/\text{NDF}: 5817470.6/63$

All: 307.079 ± 0.026 $\chi^2/\text{NDF}: 12028601.2/120$

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133920.179+/-0.077

χ^2/NDF : 1121028270.8/34

Left Out: 131214.985+/-0.064

χ^2/NDF : 1173424494.6/24

Right Out: 134363.950+/-0.071

χ^2/NDF : 1223112952.7/38

Left In: 131285.623+/-0.068

χ^2/NDF : 1056232192.1/22

Left: 131248.166+/-0.047

χ^2/NDF : 2230223308.9/4

Right: 134161.731+/-0.052

χ^2/NDF : 2362040216.9/6

In: 132439.870+/-0.051

χ^2/NDF : 2828464771.2/57

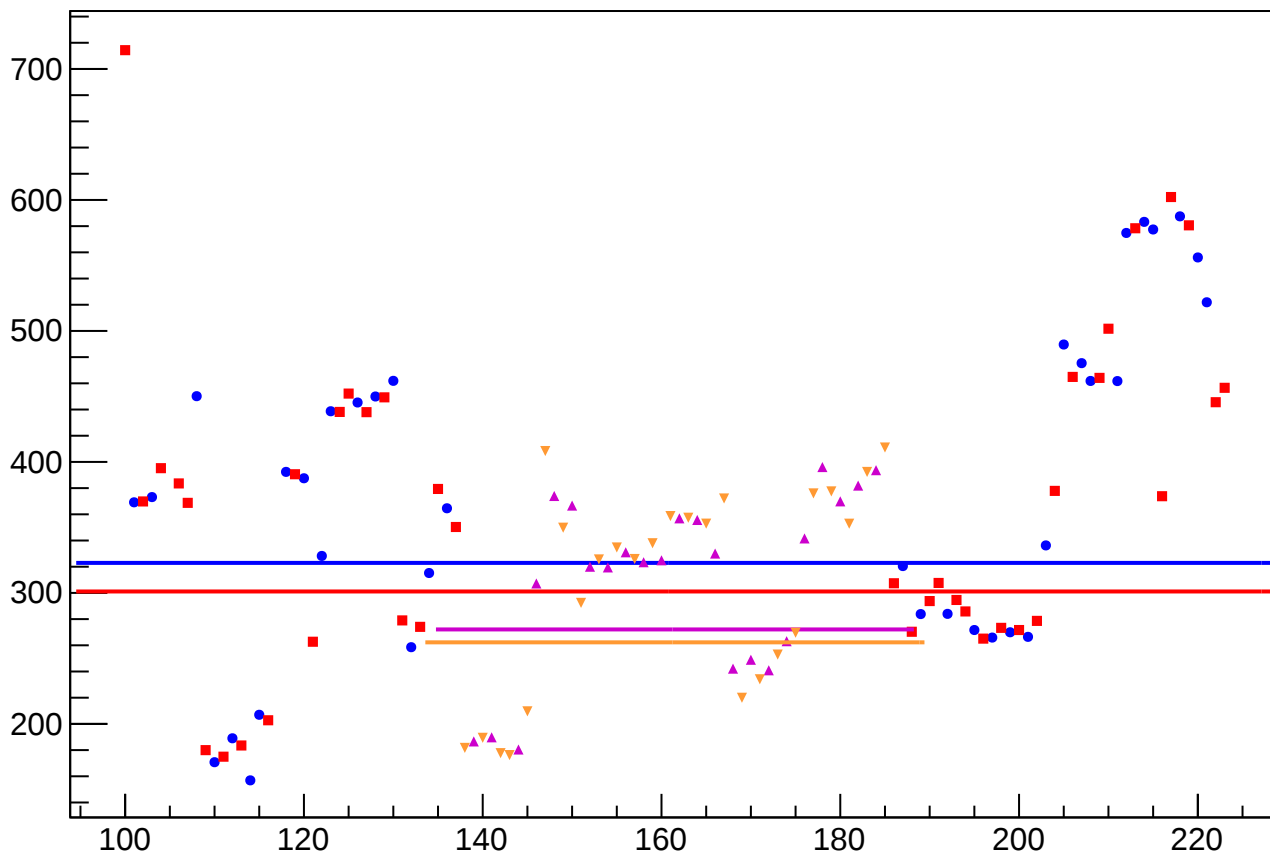
Out: 132638.544+/-0.048

χ^2/NDF : 3480230831.9/6

All: 132546.465+/-0.035

χ^2/NDF : 631676692.1/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 322.919 $\pm$ 0.055 χ^2 /NDF: 4327432.0/34

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 301.099 $\pm$ 0.050 χ^2 /NDF: 4067560.4/38

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

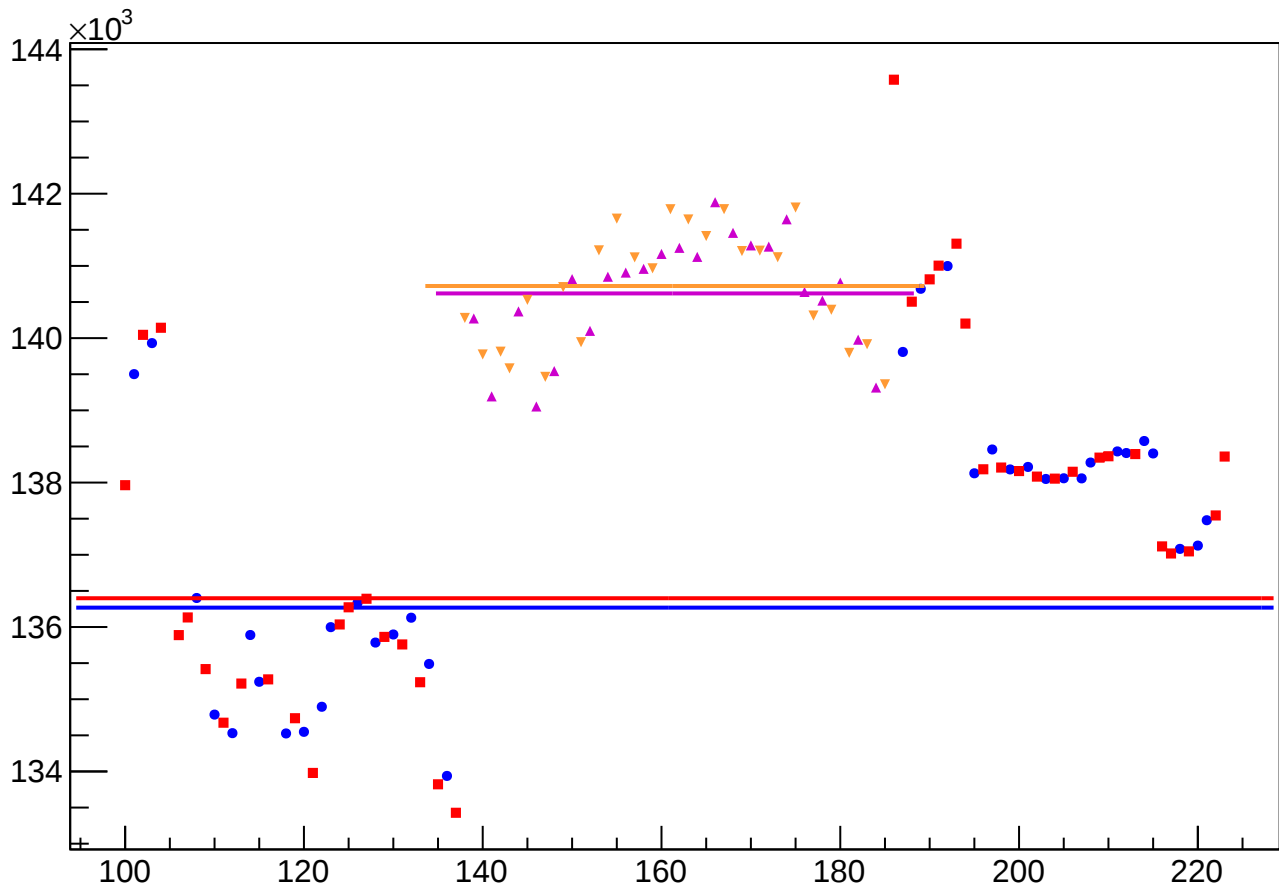
Right: 311.042 $\pm$ 0.037 χ^2 /NDF: 8481537.7/73

In: 294.373 $\pm$ 0.036 χ^2 /NDF: 7033673.7/57

Out: 279.818 $\pm$ 0.034 χ^2 /NDF: 7215448.0/63

All: 286.564 $\pm$ 0.025 χ^2 /NDF: 14335762.2/12

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136268.412 $\pm$ 0.045

χ^2 /NDF: 1689613423.0/34

Left Out: 140721.823 $\pm$ 0.048

χ^2 /NDF: 247257762.8/24

Right Out: 136398.496 $\pm$ 0.043

χ^2 /NDF: 2244208730.0/38

Left In: 140619.038 $\pm$ 0.051

χ^2 /NDF: 200370178.0/22

Left: 140673.196 $\pm$ 0.035

χ^2 /NDF: 449761004.9/47

Right: 136336.692 $\pm$ 0.031

χ^2 /NDF: 3938264800.0/7

In: 138155.623 $\pm$ 0.034

χ^2 /NDF: 5996698731.8/57

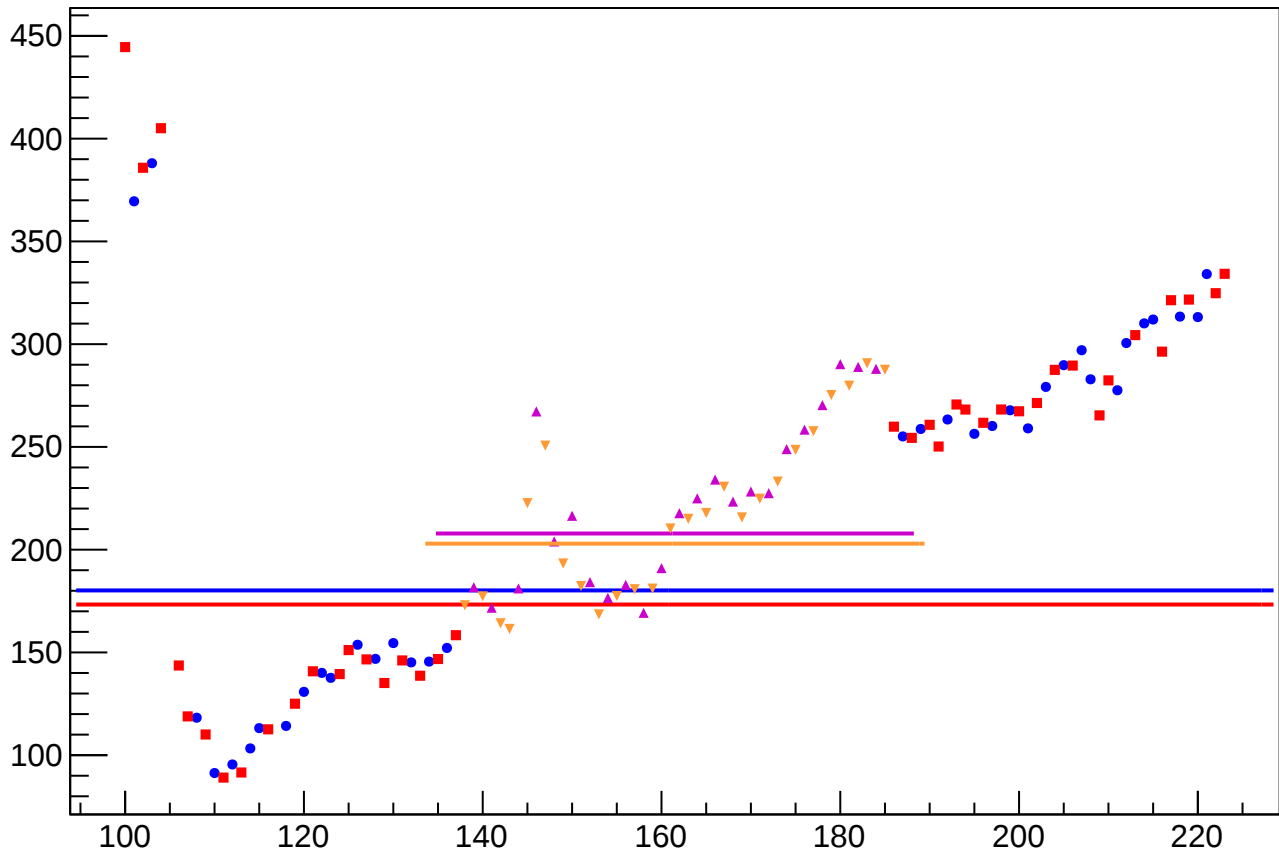
Out: 138282.455 $\pm$ 0.032

χ^2 /NDF: 6992240644.2/6

All: 138222.307 $\pm$ 0.023

χ^2 /NDF: 129964104

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 180.171+/-0.032 χ^2/NDF : 6675422.6/34

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 173.307+/-0.030 χ^2/NDF : 7250911.2/38

Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

Left: 205.270+/-0.025 χ^2/NDF : 2011329.4/47

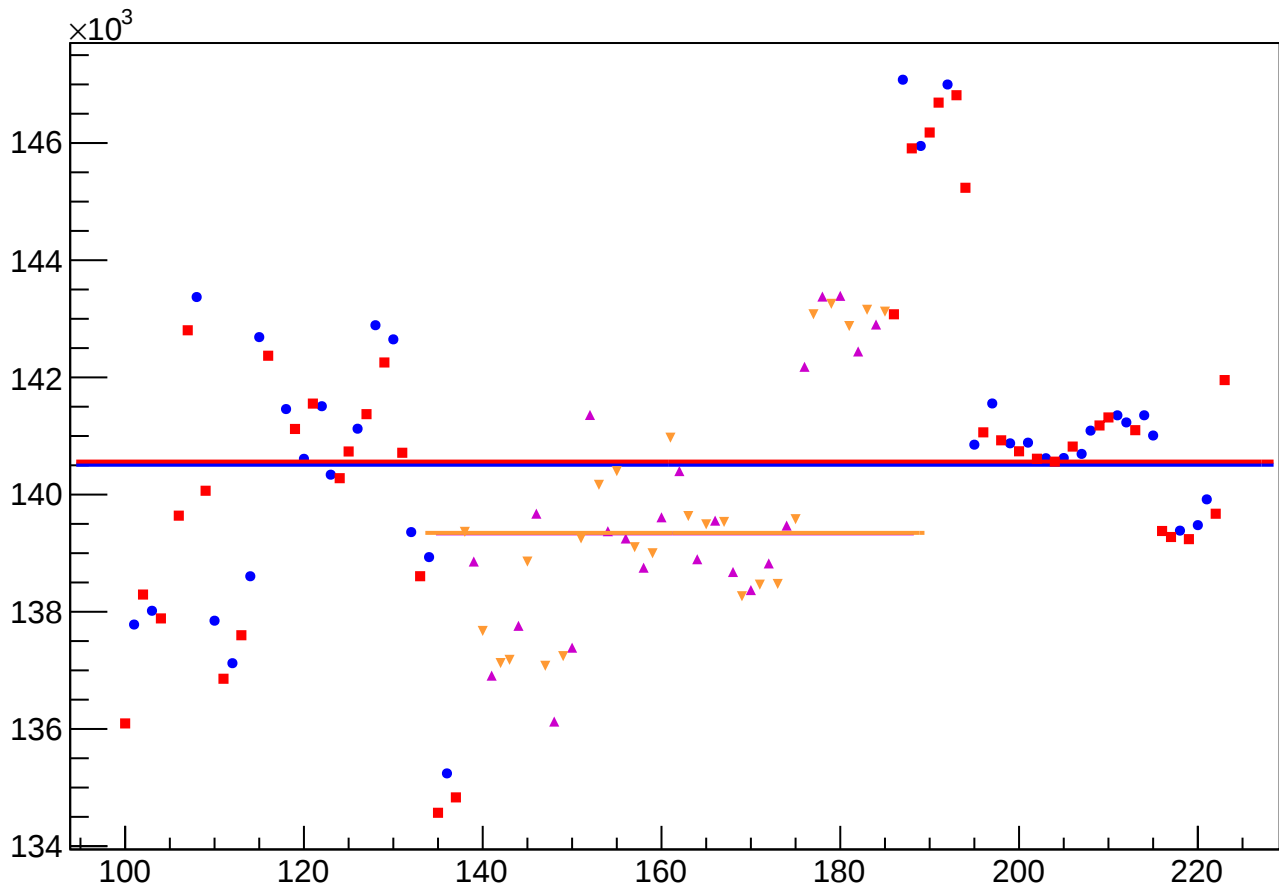
Right: 176.568+/-0.022 χ^2/NDF : 13951070.4/73

In: 192.187+/-0.024 χ^2/NDF :7957597.0/57

Out: 186.218+/-0.023 χ^2/NDF :8725914.5/63

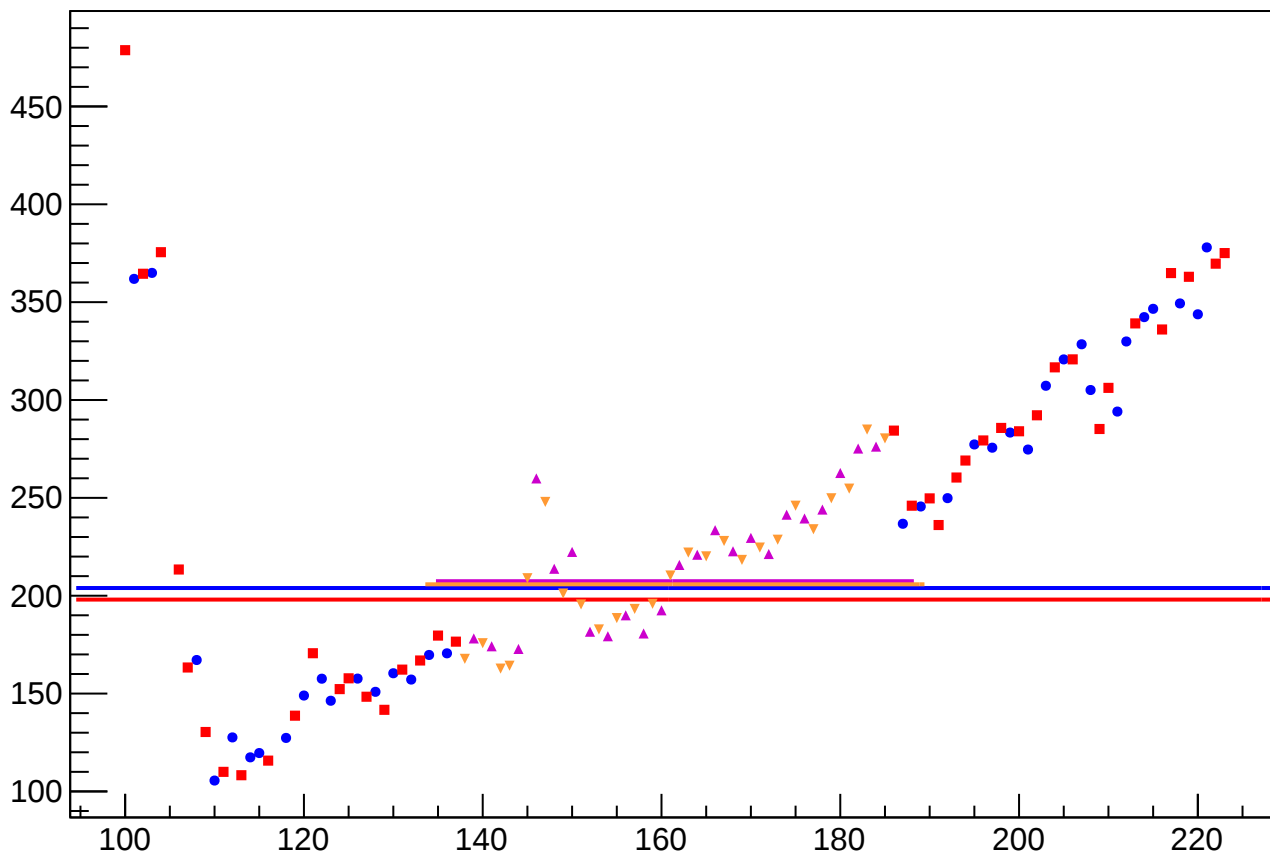
All: 189.048+/-0.016 χ^2/NDF : 16716611.5/12

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140509.389 $\pm$ 0.050	χ^2 /NDF: 2806593400.1/34	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140537.565 $\pm$ 0.034	χ^2 /NDF: 6066247043.4/4
Right Out: 140563.456 $\pm$ 0.048	χ^2 /NDF: 3259039846.2/38	In: 139935.506 $\pm$ 0.036	χ^2 /NDF: 4370486441.8/57
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139970.228 $\pm$ 0.034	χ^2 /NDF: 4846722443.2/6
		All: 139953.560 $\pm$ 0.025	χ^2 /NDF: 921770403

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 203.935 $\pm$ 0.035 χ^2 /NDF: 5578274.4/34

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 198.023 $\pm$ 0.034 χ^2 /NDF: 6042169.7/38

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

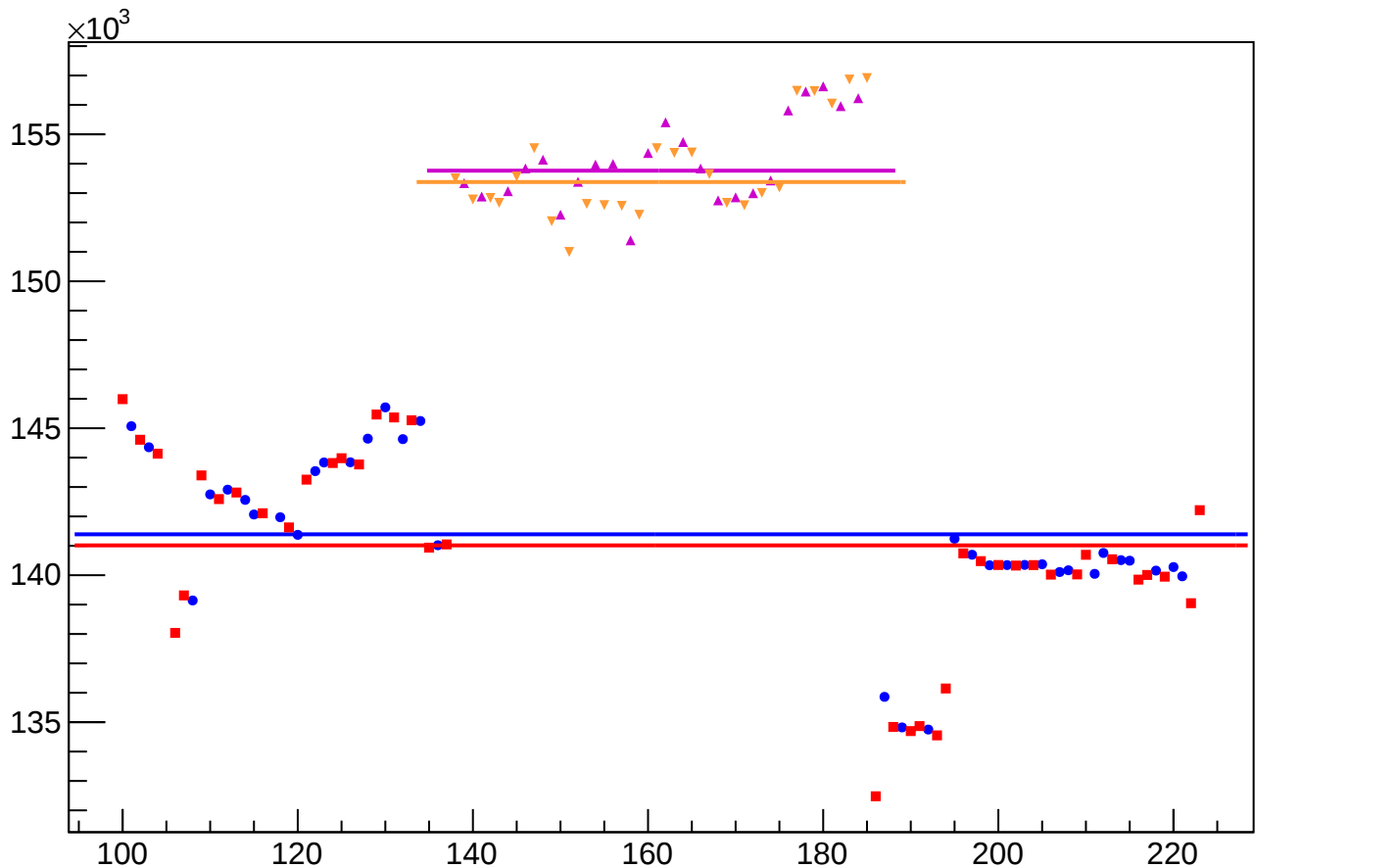
Right: 200.854 $\pm$ 0.024 χ^2 /NDF: 11635122.9/73

In: 205.640 $\pm$ 0.025 χ^2 /NDF: 6285014.4/57

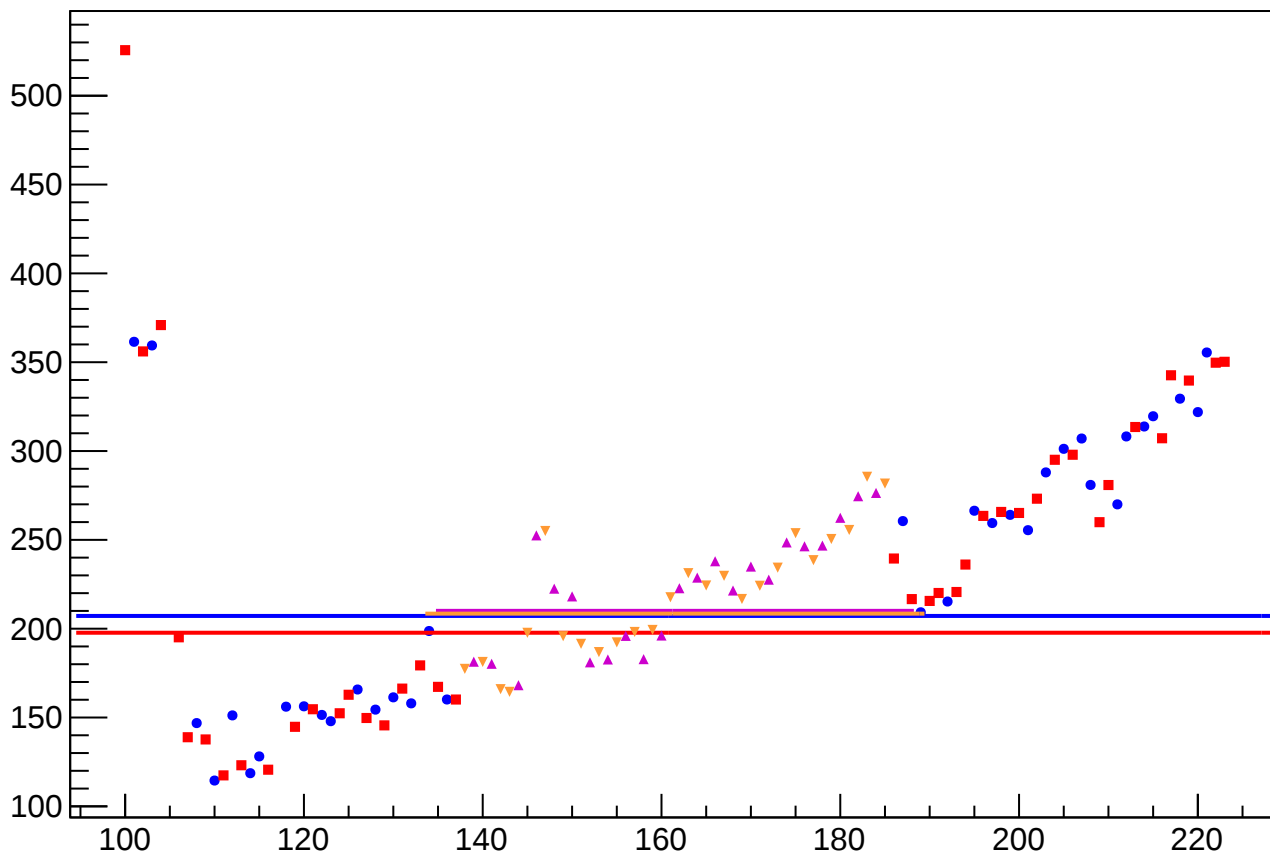
Out: 201.830 $\pm$ 0.024 χ^2 /NDF: 6806914.0/63

All: 203.659 $\pm$ 0.017 χ^2 /NDF: 13103852.1/12

yield_bpm0i05WS_mean vs Slug, Sign Corrected



yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 207.178 $\pm$ 0.035 χ^2 /NDF: 4169649.1/34

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 197.724 $\pm$ 0.033 χ^2 /NDF: 4610709.6/38

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

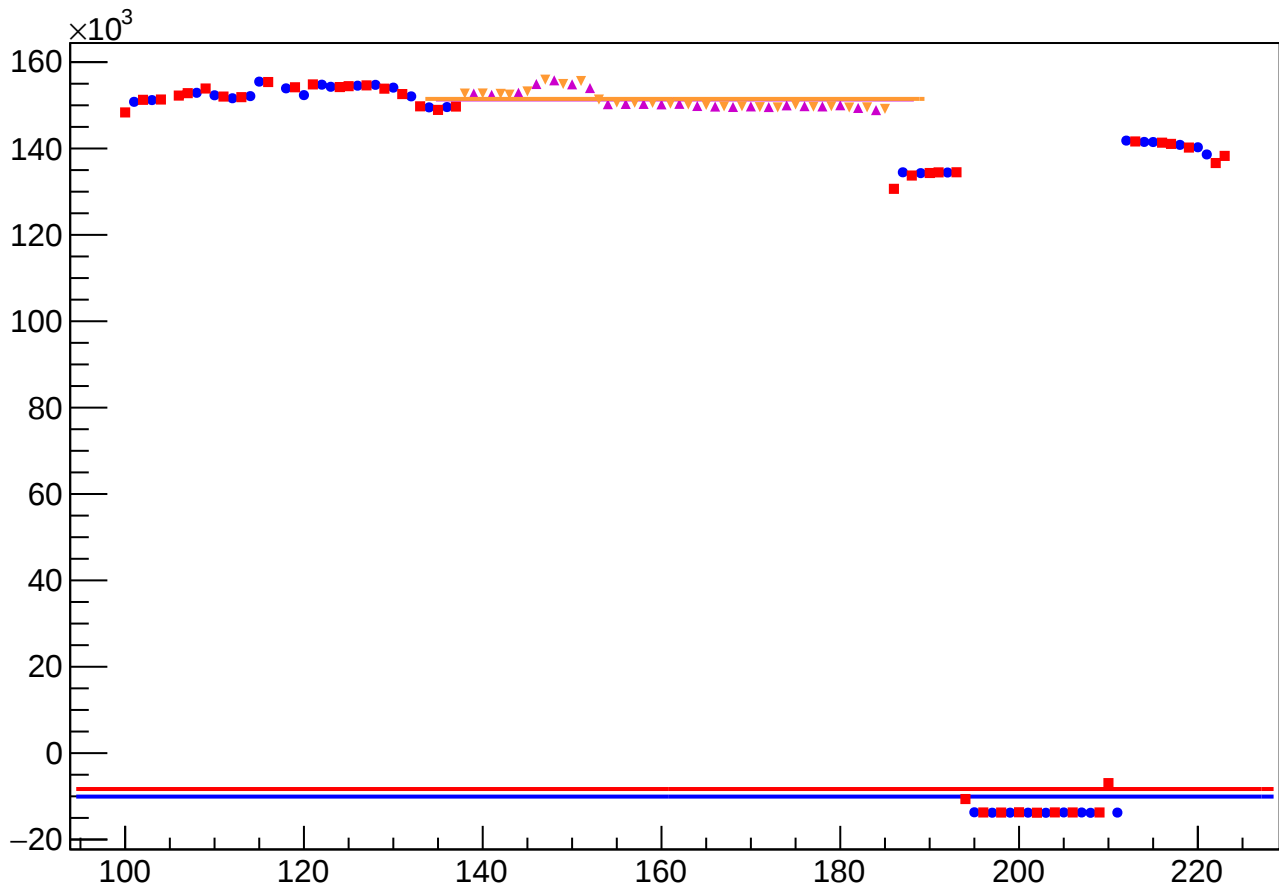
Right: 202.171 $\pm$ 0.024 χ^2 /NDF: 8818818.9/73

In: 208.556 $\pm$ 0.025 χ^2 /NDF: 4875220.2/57

Out: 202.785 $\pm$ 0.024 χ^2 /NDF: 5381339.9/63

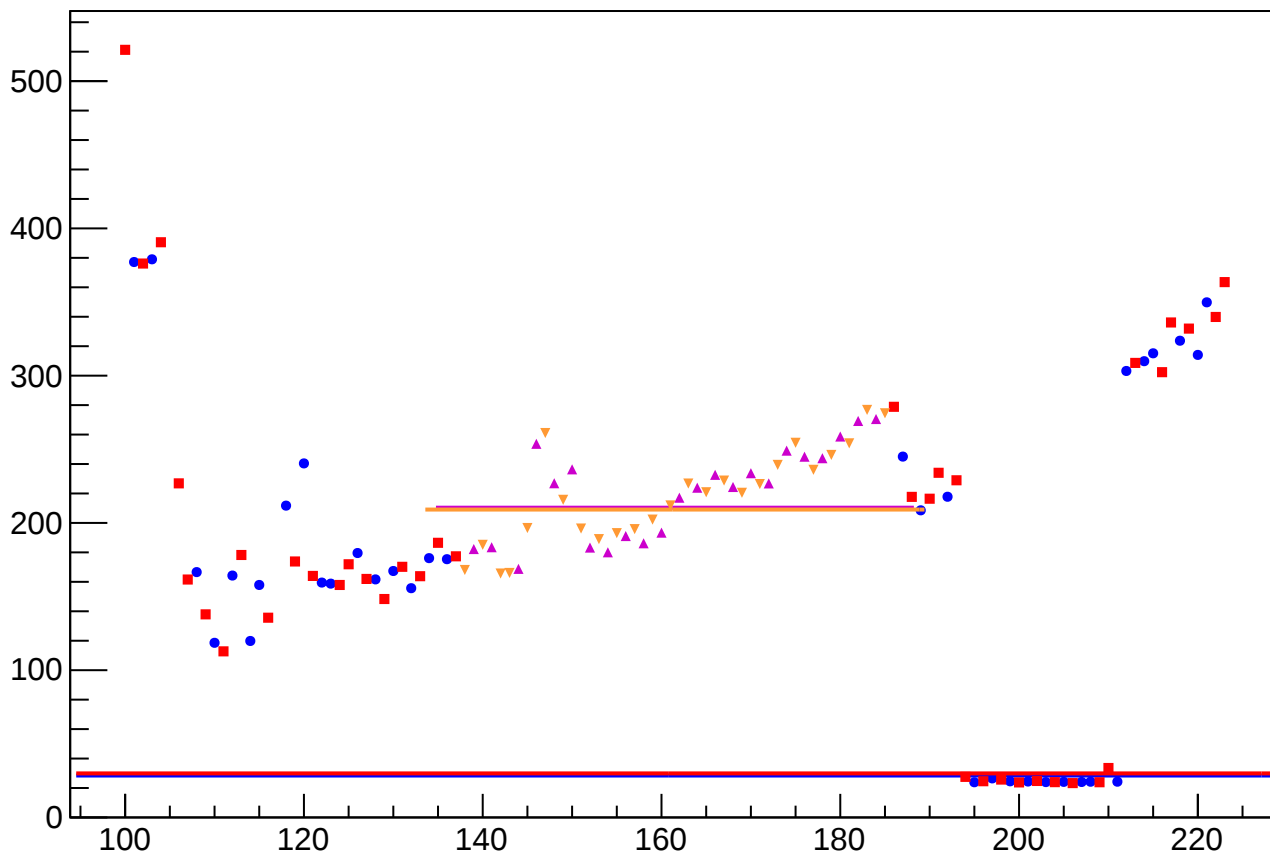
All: 205.529 $\pm$ 0.017 χ^2 /NDF: 10283954.9/12

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10060.755+/-0.009	χ^2/NDF : 6938854917829.0/34	Left: 151425.512+/-0.036	χ^2/NDF : 2906409079.9/34
Left Out: 151483.385+/-0.050	χ^2/NDF : 1481910066.9/24	Right: -9259.619+/-0.007	χ^2/NDF : 1497461700801.0/24
Right Out: -8307.337+/-0.010	χ^2/NDF : 8019190478993.8/38	In: -5042.691+/-0.009	χ^2/NDF : 16496295097578.2/38
Left In: 151363.165+/-0.051	χ^2/NDF : 1421662089.0/22	Out: -2001.424+/-0.010	χ^2/NDF : 18020971776210.0/22
		All: -3646.582+/-0.007	χ^2/NDF : 3456896341.0/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.479 ± 0.007 $\chi^2/\text{NDF}: 19340416.5/34$

Left Out: 209.076 ± 0.035 $\chi^2/\text{NDF}: 708260.3/24$

Right Out: 29.914 ± 0.007 $\chi^2/\text{NDF}: 20354467.8/38$

Left In: 210.345 ± 0.036 $\chi^2/\text{NDF}: 677747.7/22$

Left: 209.687 ± 0.025 $\chi^2/\text{NDF}: 1386640.1/47$

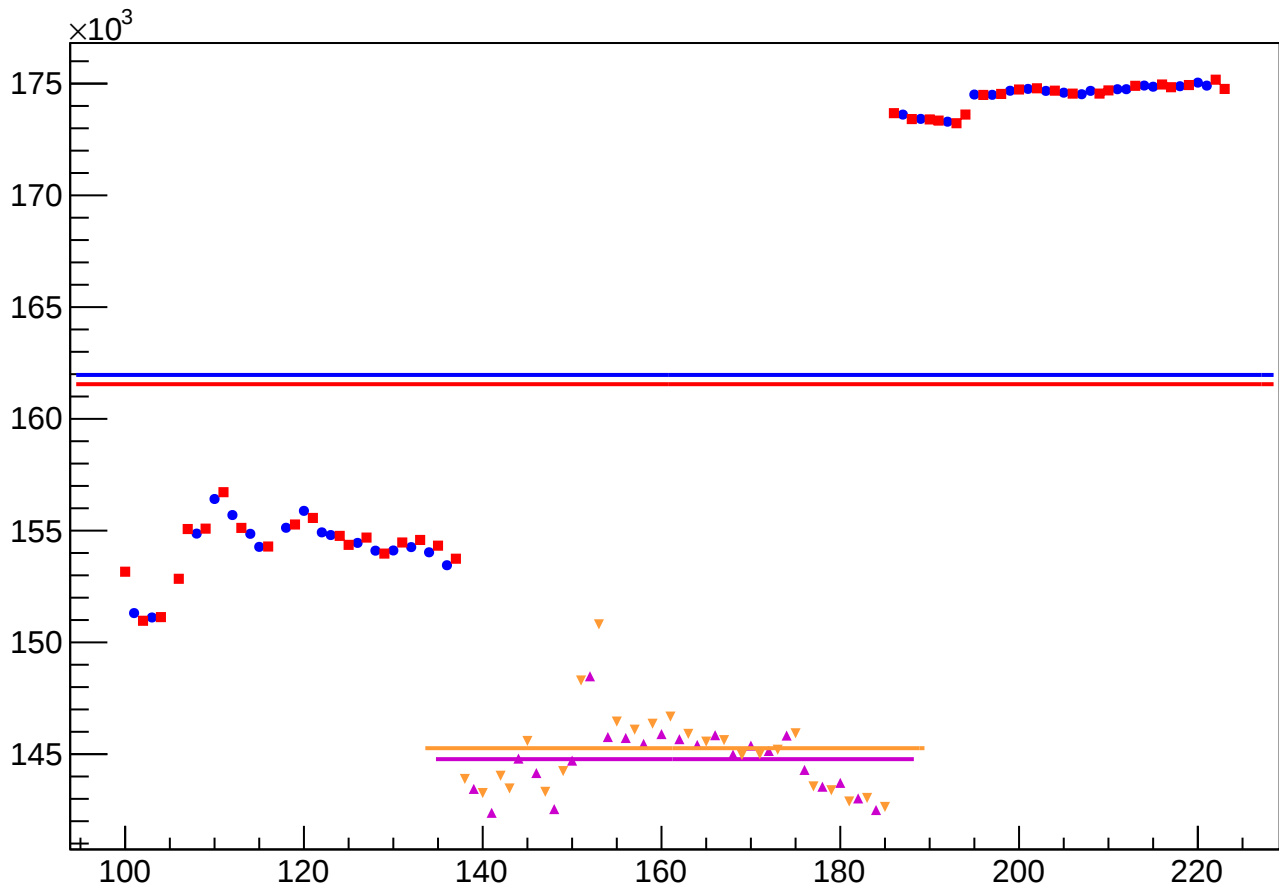
Right: 29.135 ± 0.005 $\chi^2/\text{NDF}: 39717082.1/73$

In: 34.133 ± 0.006 $\chi^2/\text{NDF}: 44277170.8/57$

Out: 36.984 ± 0.007 $\chi^2/\text{NDF}: 46206544.2/63$

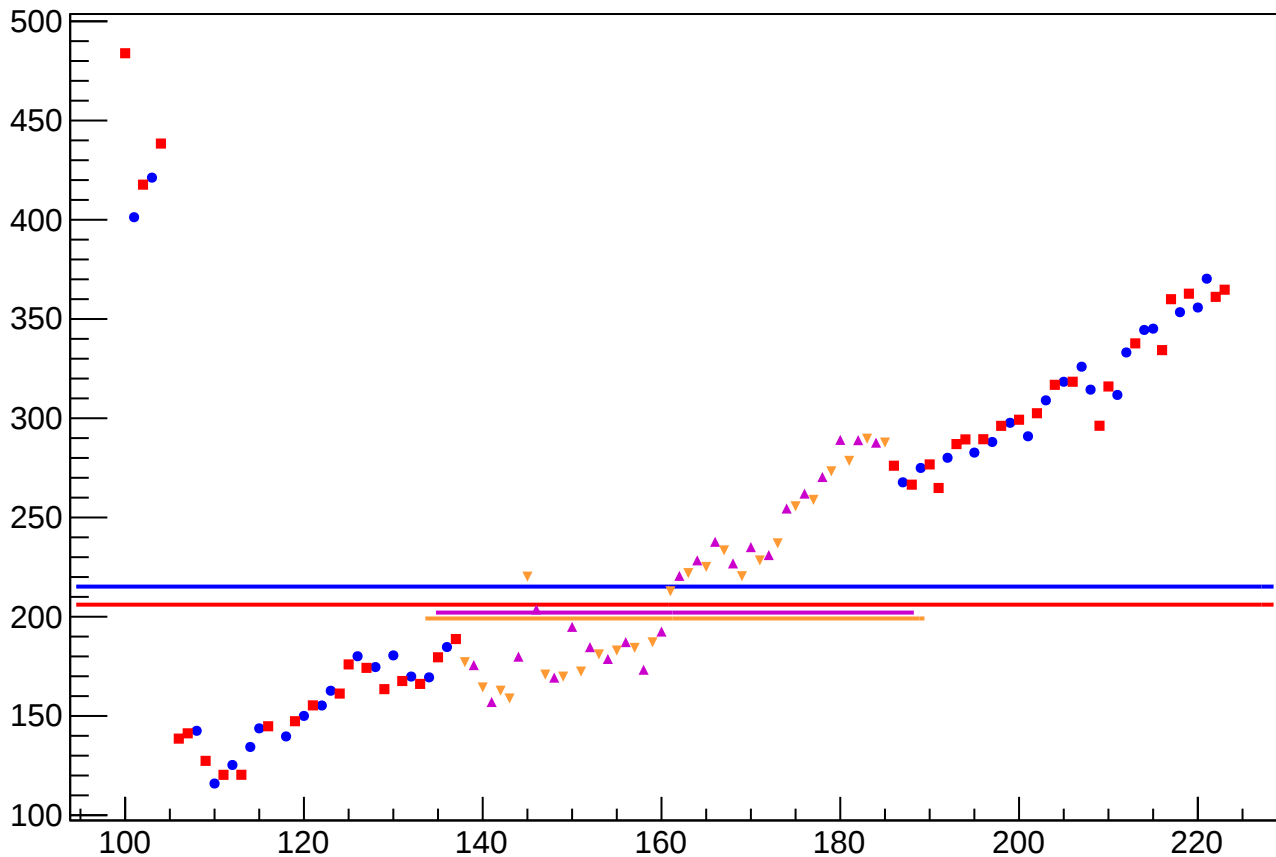
All: 35.442 ± 0.005 $\chi^2/\text{NDF}: 90574627.8/121$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161965.767 $\pm$ 0.052	χ^2 /NDF: 33346940944.8/34	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/34
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 161746.684 $\pm$ 0.036	χ^2 /NDF: 69118719459.0/24
Right Out: 161551.474 $\pm$ 0.049	χ^2 /NDF: 35738488605.5/38	In: 152922.608 $\pm$ 0.036	χ^2 /NDF: 91279777558.8/38
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 153090.002 $\pm$ 0.034	χ^2 /NDF: 94175292773.5/22
		All: 153010.561 $\pm$ 0.025	χ^2 /NDF: 185466464.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 215.187 $\pm$ 0.037 χ^2 /NDF: 5328457.0/34

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 206.082 $\pm$ 0.035 χ^2 /NDF: 5827333.5/38

Left In: 202.090 $\pm$ 0.035 χ^2 /NDF:1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2 /NDF: 2213821.5/47

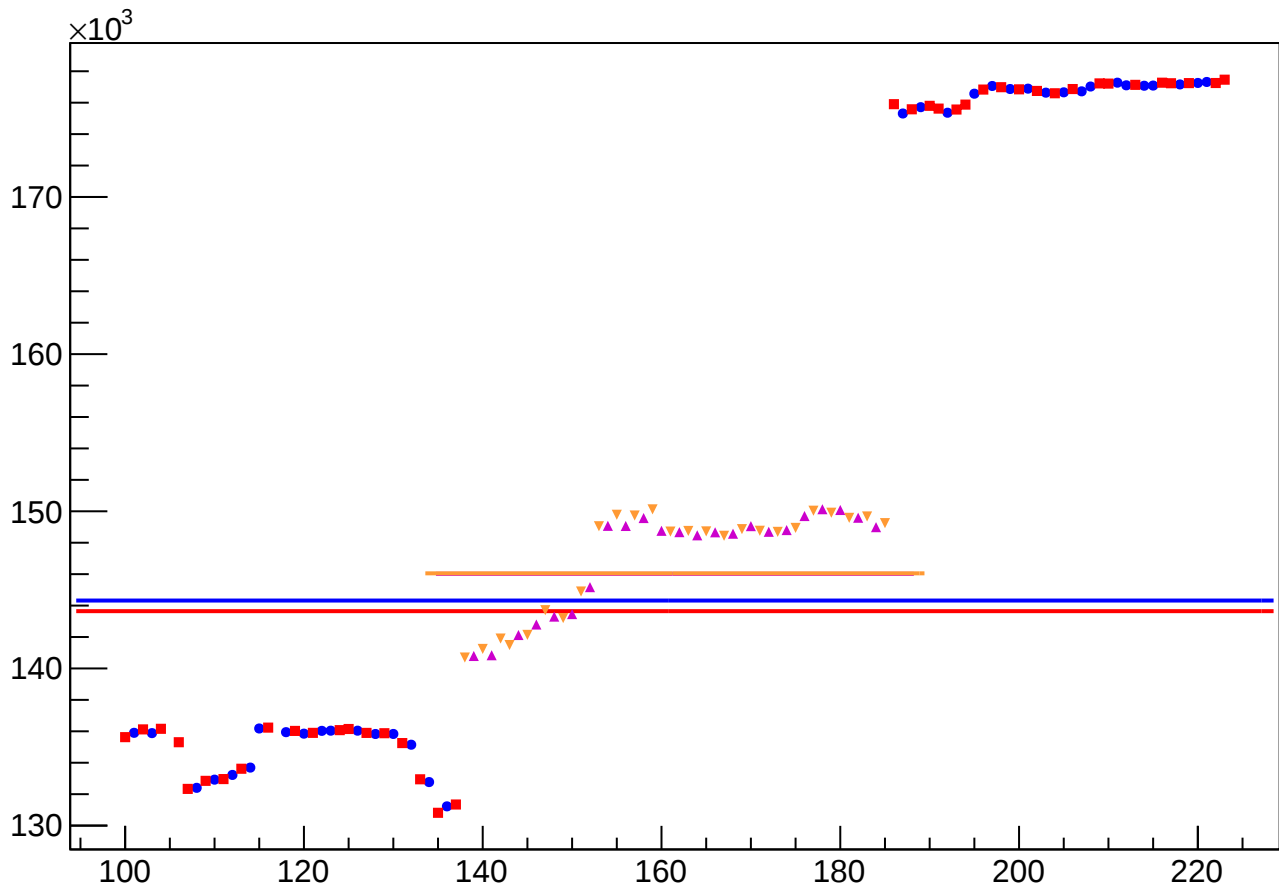
Right: 210.372 $\pm$ 0.025 χ^2 /NDF: 11187943.5/73

In: 208.297 $\pm$ 0.025 χ^2 /NDF:6452478.6/57

Out: 202.464 $\pm$ 0.024 χ^2 /NDF:7000311.1/63

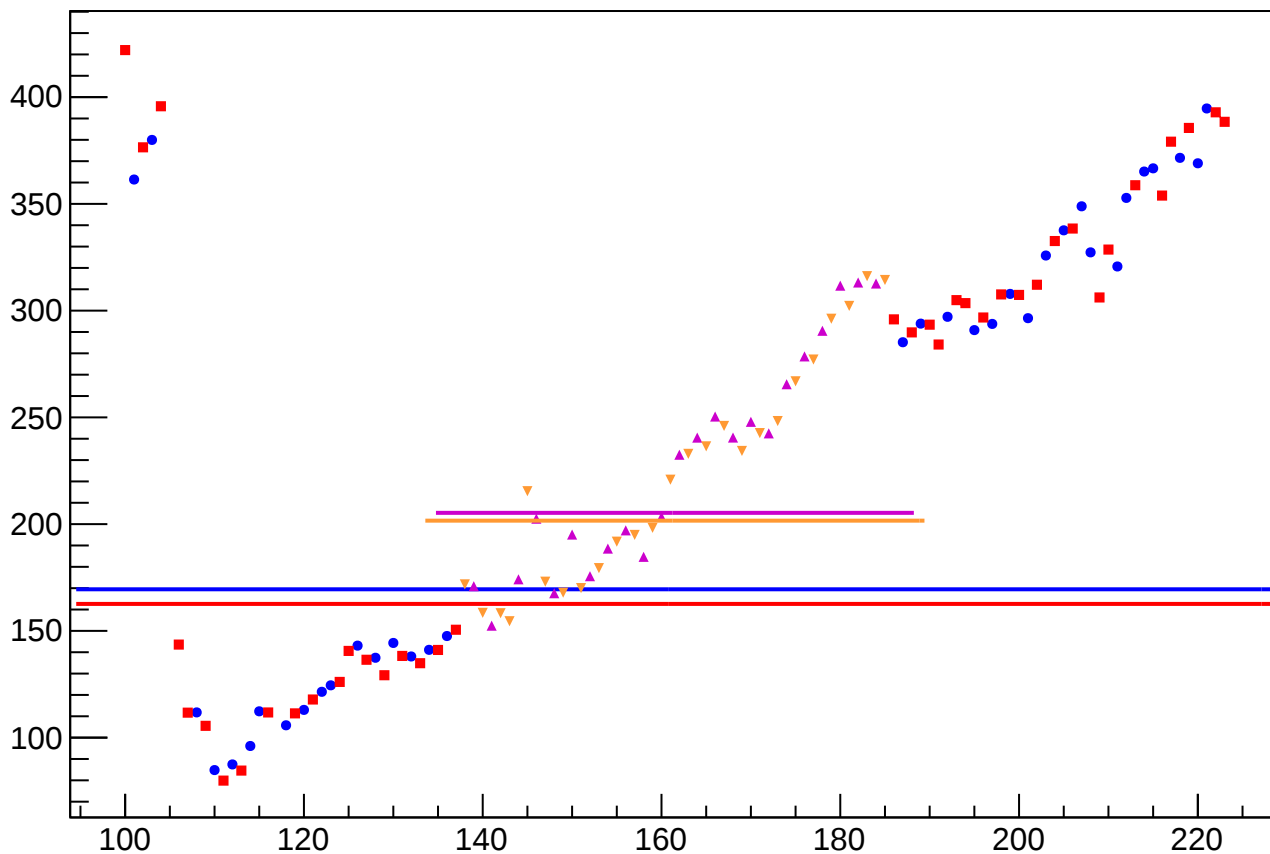
All: 205.232 $\pm$ 0.018 χ^2 /NDF: 13480461.7/12

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 144320.841 $\pm$ 0.044	χ^2/NDF : 168680737905.6/34	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 143965.048 $\pm$ 0.030	χ^2/NDF : 349214661449
Right Out: 143644.960 $\pm$ 0.042	χ^2/NDF : 180409969769.7/38	In: 145052.453 $\pm$ 0.033	χ^2/NDF : 173912947535.7
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 144674.873 $\pm$ 0.032	χ^2/NDF : 187233488091.
		All: 144854.126 $\pm$ 0.023	χ^2/NDF : 361214222

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 169.478 $\pm$ 0.031 χ^2 /NDF: 9631668.8/34

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 162.630 $\pm$ 0.030 χ^2 /NDF: 10297116.8/38

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

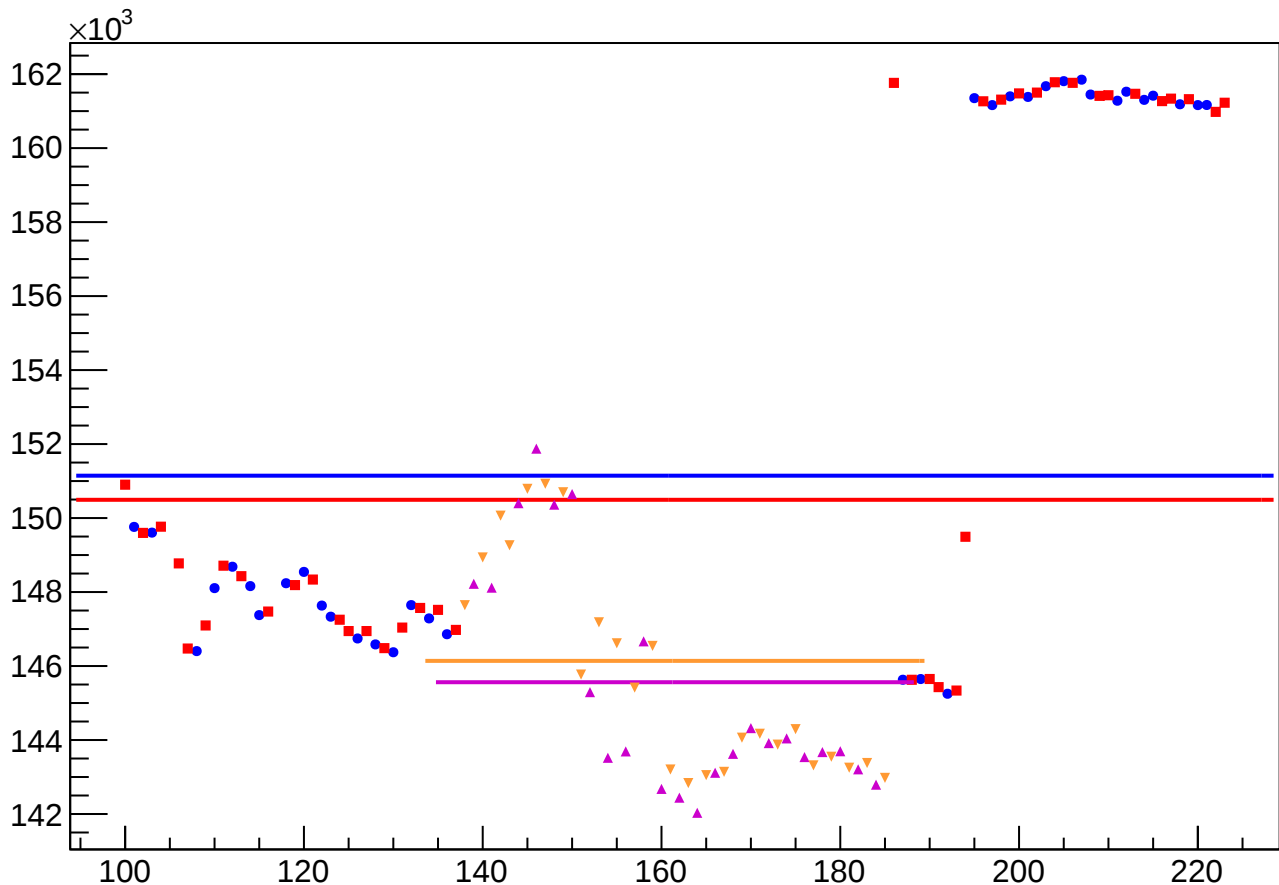
Right: 165.873 $\pm$ 0.021 χ^2 /NDF: 19954236.9/73

In: 184.896 $\pm$ 0.024 χ^2 /NDF:11626105.7/57

Out: 179.320 $\pm$ 0.022 χ^2 /NDF:12632572.1/63

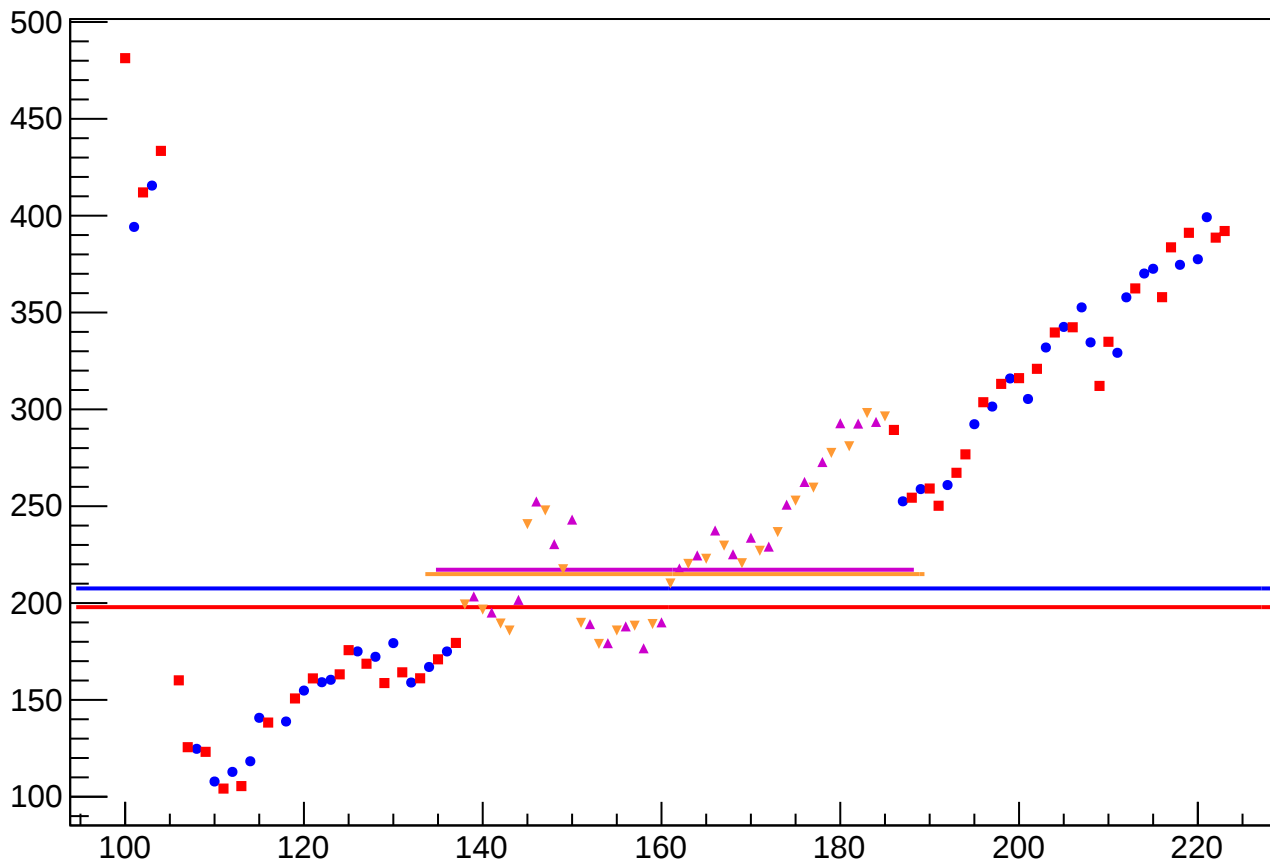
All: 181.967 $\pm$ 0.016 χ^2 /NDF: 24288248.8/12

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 151145.212 $\pm$ 0.051	χ^2 /NDF: 14713687384.0/34	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 150799.184 $\pm$ 0.035	χ^2 /NDF: 28949702828.7
Right Out: 150493.379 $\pm$ 0.048	χ^2 /NDF: 14150639652.2/38	In: 148442.954 $\pm$ 0.037	χ^2 /NDF: 23478763480.8/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148429.743 $\pm$ 0.035	χ^2 /NDF: 20698577848.5
		All: 148436.005 $\pm$ 0.025	χ^2 /NDF: 441774086

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 207.545 $\pm$ 0.036 χ^2 /NDF: 6640198.5/34

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 197.883 $\pm$ 0.034 χ^2 /NDF: 7144381.7/38

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

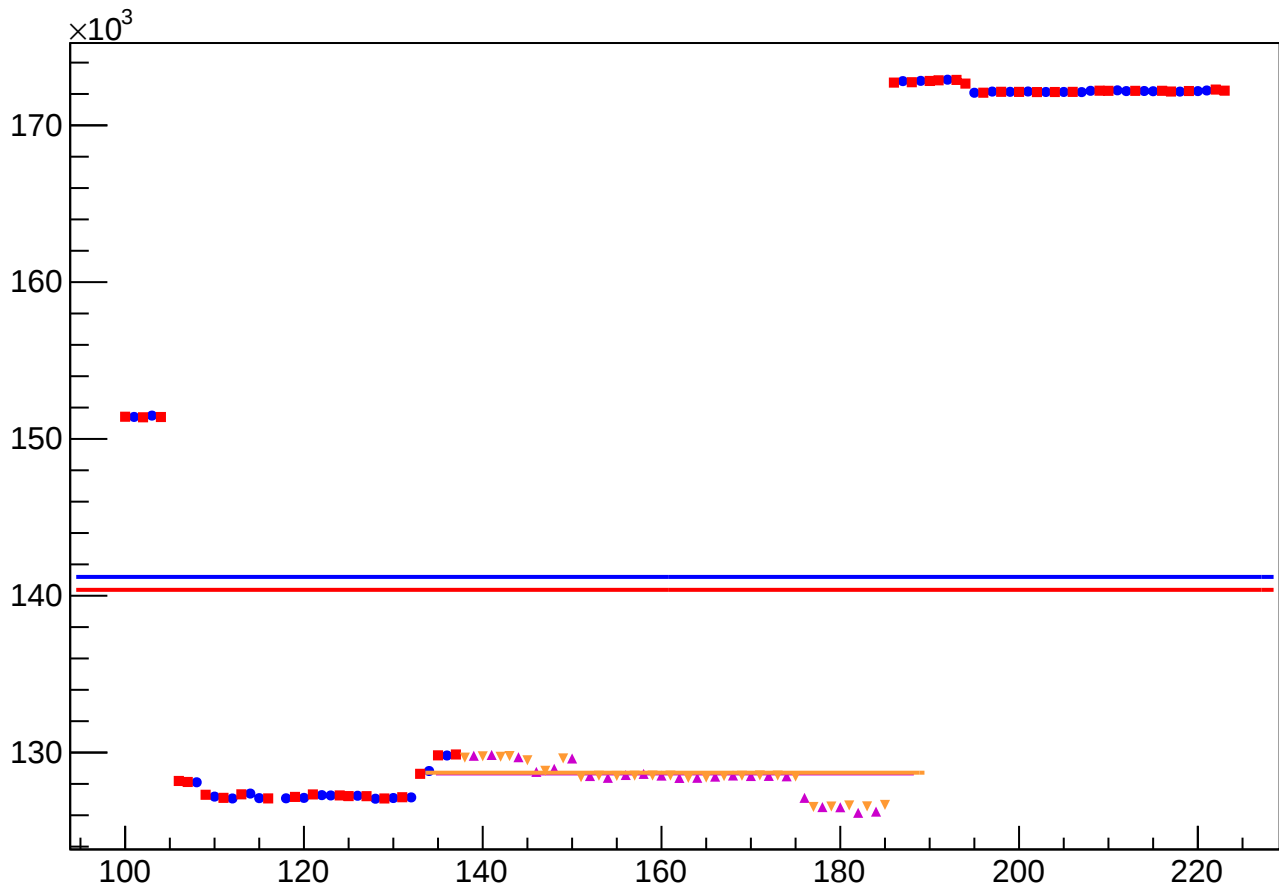
Right: 202.416 $\pm$ 0.025 χ^2 /NDF: 13822098.6/73

In: 212.220 $\pm$ 0.026 χ^2 /NDF: 7439176.1/57

Out: 205.970 $\pm$ 0.025 χ^2 /NDF: 7991084.9/63

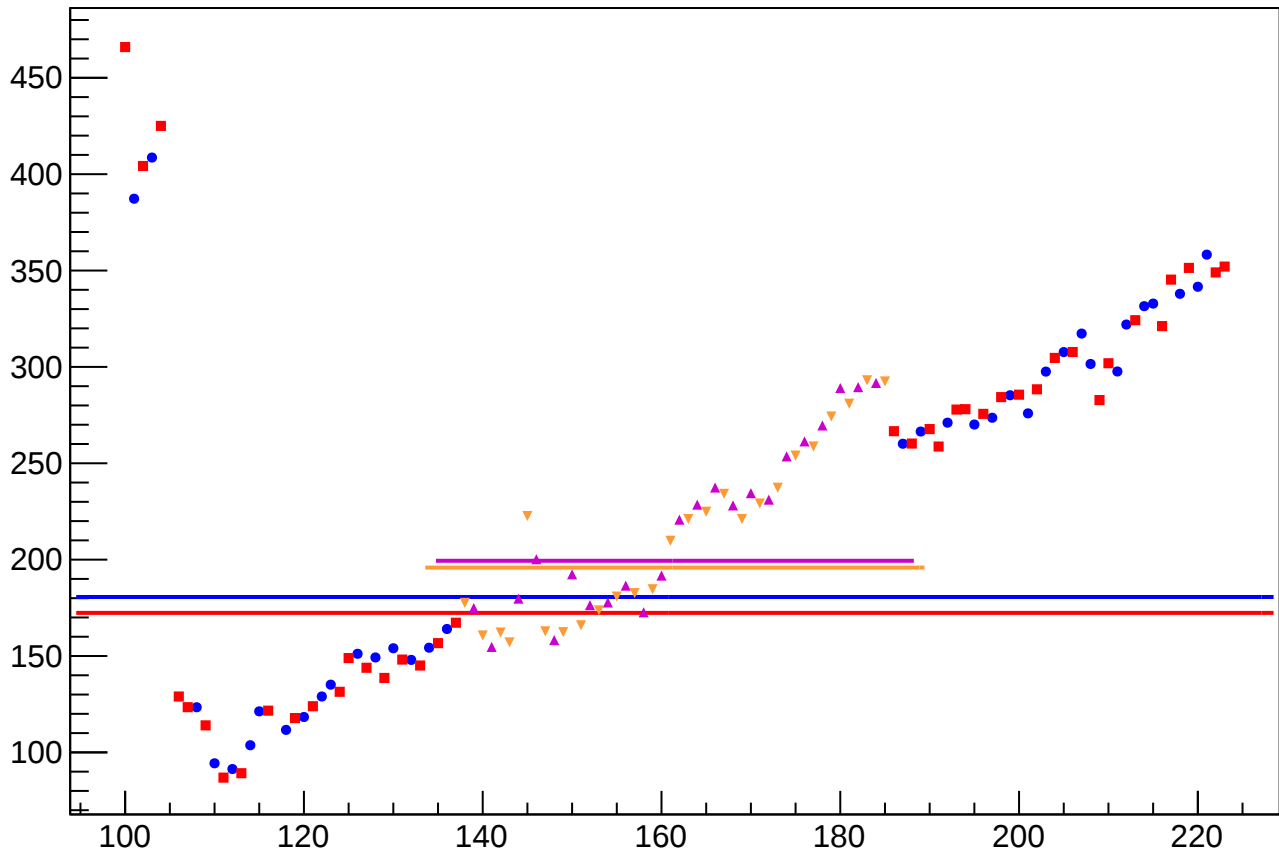
All: 208.932 $\pm$ 0.018 χ^2 /NDF: 15460413.5/12

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 141200.850+/-0.045	χ^2/NDF : 202939908579.0/34	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 140763.597+/-0.031	χ^2/NDF : 424606666141
Right Out: 140376.197+/-0.043	χ^2/NDF : 221491979517.3/38	In: 135407.352+/-0.033	χ^2/NDF : 238470079836.4
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 135058.593+/-0.032	χ^2/NDF : 255766156973
		All: 135223.433+/-0.023	χ^2/NDF : 494294053

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 180.620+/-0.032 χ^2/NDF : 7611900.8/34

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 172.376+/-0.030 χ^2/NDF : 8216174.1/38

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

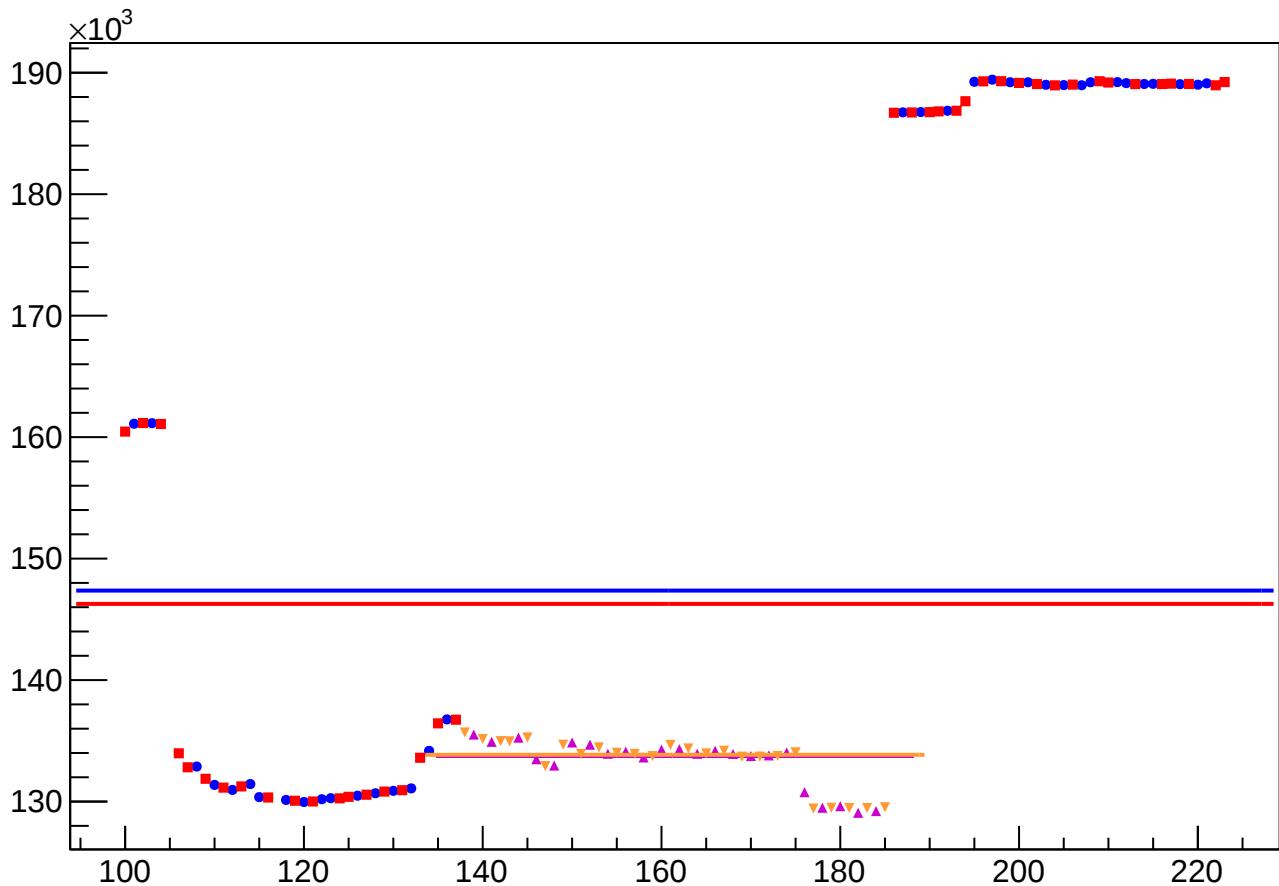
Right: 176.249+/-0.022 χ^2/NDF : 15863015.2/73

In: 189.307+/-0.024 χ^2/NDF :8935857.4/57

Out: 183.095+/-0.022 χ^2/NDF :9805235.6/63

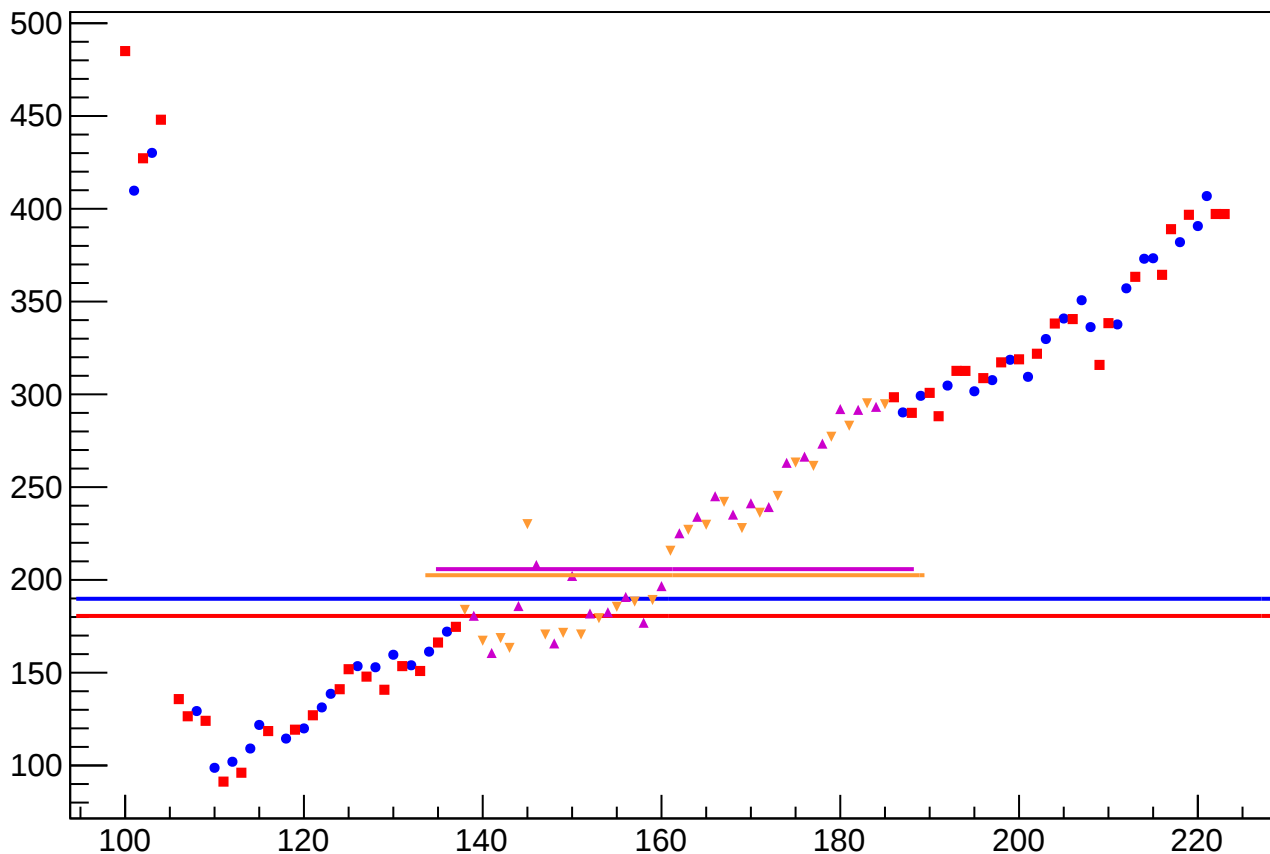
All: 186.031+/-0.016 χ^2/NDF : 18777782.6/12

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 147368.403+/-0.048	χ^2/NDF : 277185187330.2/34	Left: 133802.452+/-0.035	χ^2/NDF : 2036267179.3/4
Left Out: 133850.586+/-0.048	χ^2/NDF : 1080107831.1/24	Right: 146785.712+/-0.033	χ^2/NDF : 574481672047
Right Out: 146272.041+/-0.045	χ^2/NDF : 297023637498.7/38	In: 140851.693+/-0.035	χ^2/NDF : 316044046071.8
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 140430.917+/-0.033	χ^2/NDF : 333255769242
		All: 140629.708+/-0.024	χ^2/NDF : 649376313

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 189.828+/-0.034 χ^2/NDF : 8460616.0/34

Left Out: 202.527+/-0.034 χ^2/NDF :1211991.5/24

Right Out: 180.580+/-0.032 χ^2/NDF : 9132373.8/38

Left In: 205.808+/-0.036 χ^2/NDF :1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

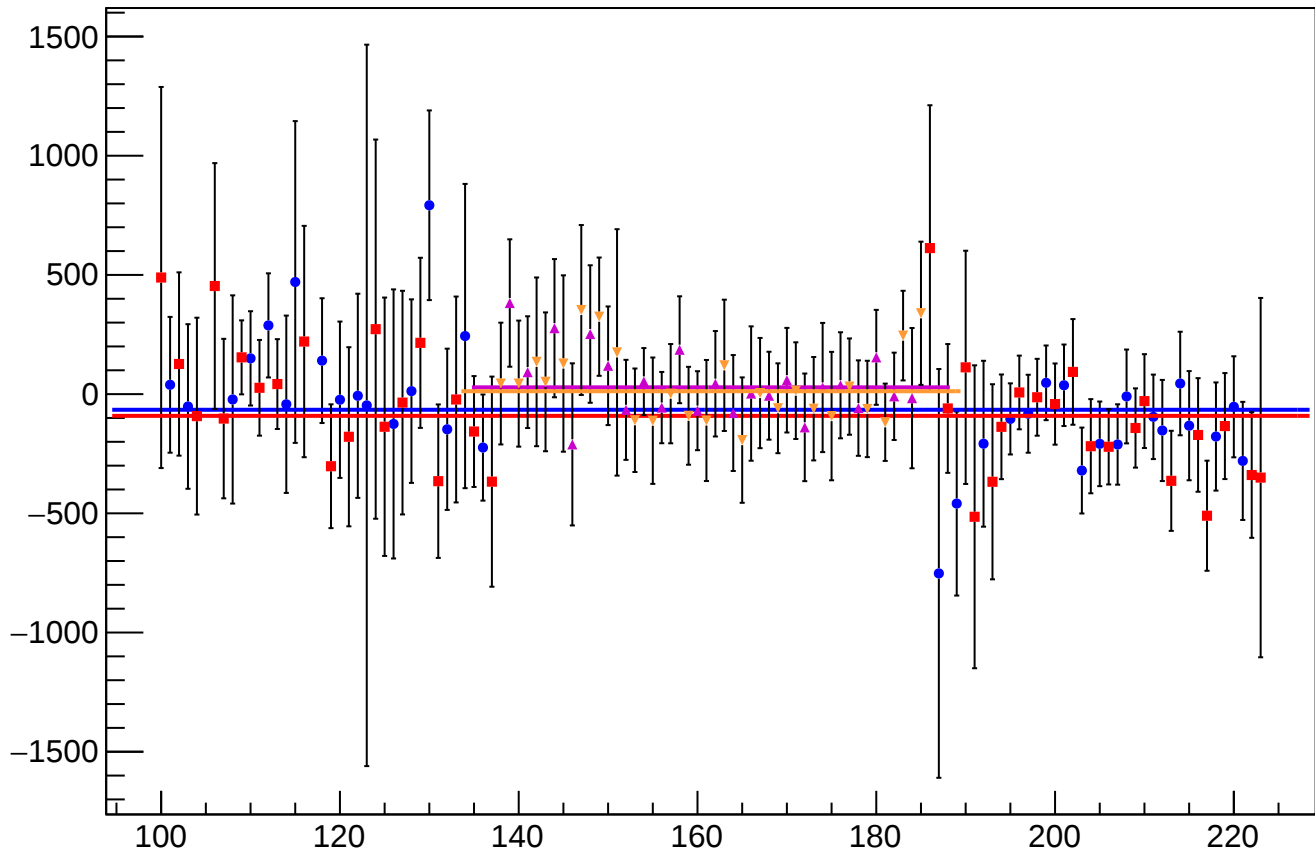
Right: 184.913+/-0.023 χ^2/NDF : 17631814.8/73

In: 197.475+/-0.025 χ^2/NDF :9659320.7/57

Out: 190.901+/-0.023 χ^2/NDF :10563839.3/63

All: 194.007+/-0.017 χ^2/NDF : 20260503.3/12

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -65.637 ± 40.526 χ^2/NDF : 18.6/34

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -91.134 ± 40.426 χ^2/NDF : 20.0/38

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

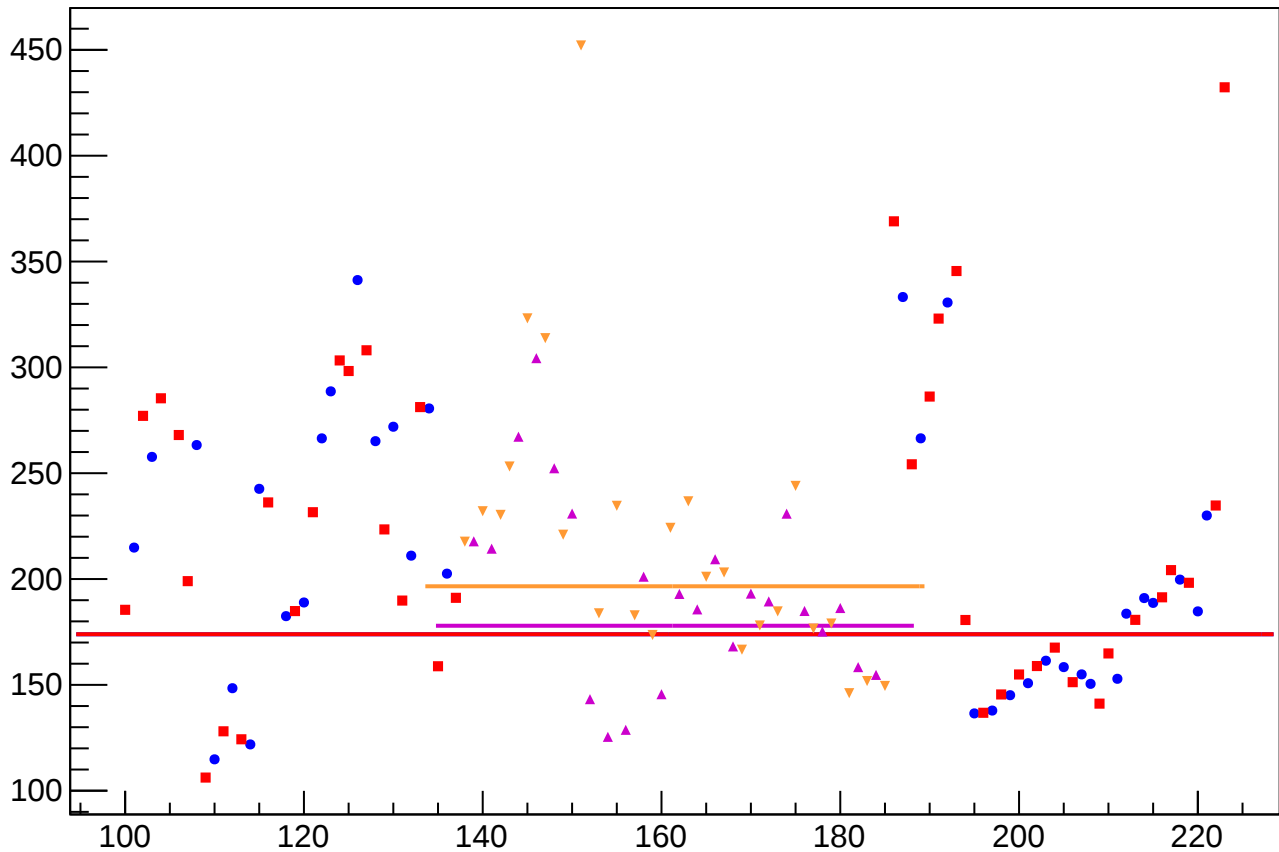
Right: -78.417 ± 28.621 χ^2/NDF : 38.7/73

In: -23.177 ± 30.020 χ^2/NDF : 27.7/57

Out: -47.768 ± 30.794 χ^2/NDF : 31.3/63

All: -35.160 ± 21.496 χ^2/NDF : 59.3/121

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.894 ± 0.029 $\chi^2/\text{NDF}: 2325148.6/34$

Left Out: 196.576 ± 0.034 $\chi^2/\text{NDF}: 1778719.0/24$

Right Out: 173.923 ± 0.029 $\chi^2/\text{NDF}: 3283612.8/38$

Left In: 177.933 ± 0.032 $\chi^2/\text{NDF}: 1605780.8/22$

Left: 186.680 ± 0.023 $\chi^2/\text{NDF}: 3547823.4/47$

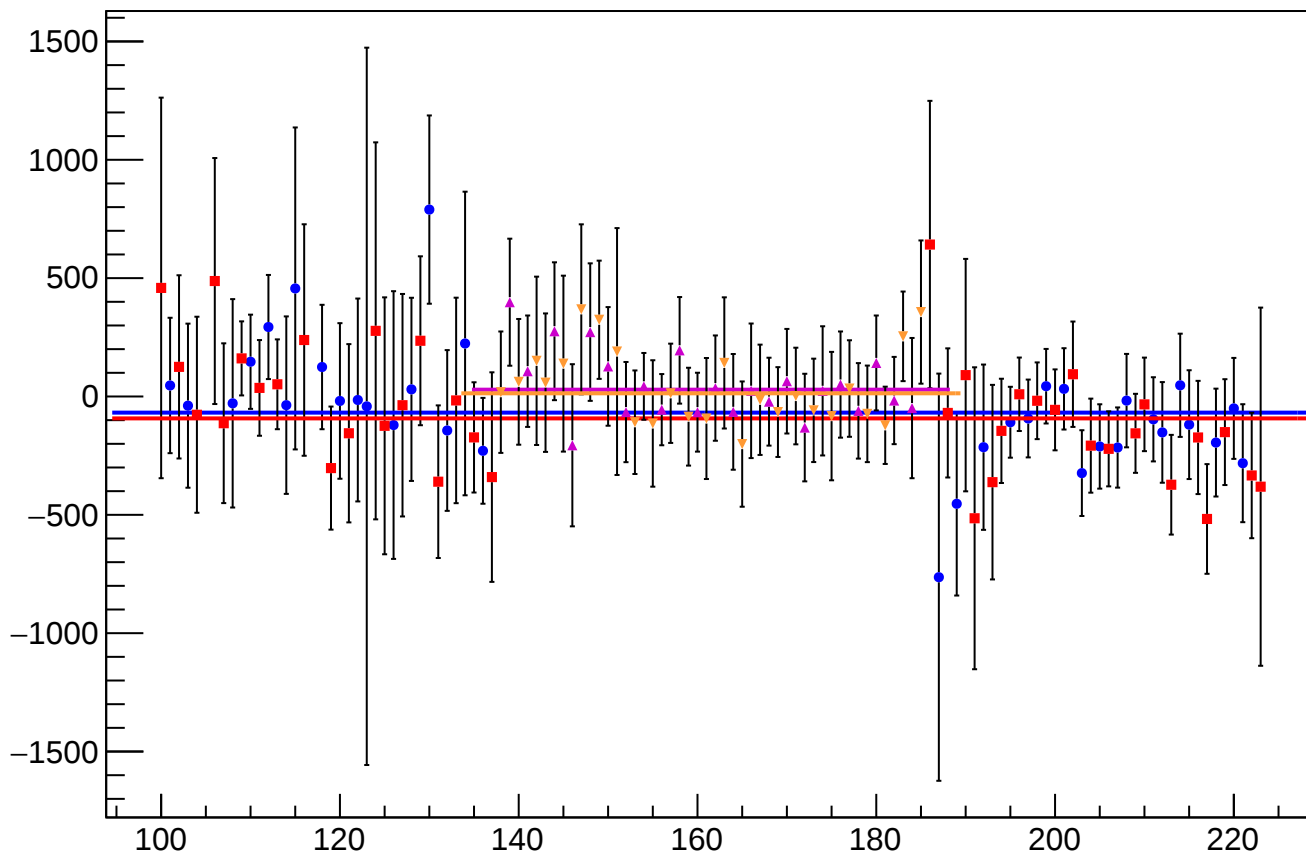
Right: 173.908 ± 0.020 $\chi^2/\text{NDF}: 5608762.0/73$

In: 175.716 ± 0.021 $\chi^2/\text{NDF}: 3939895.4/57$

Out: 183.431 ± 0.022 $\chi^2/\text{NDF}: 5325943.4/63$

All: 179.476 ± 0.015 $\chi^2/\text{NDF}: 9330203.0/123$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -68.204 ± 40.713 χ^2/NDF : 18.5/34

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -92.581 ± 40.622 χ^2/NDF : 20.5/38

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

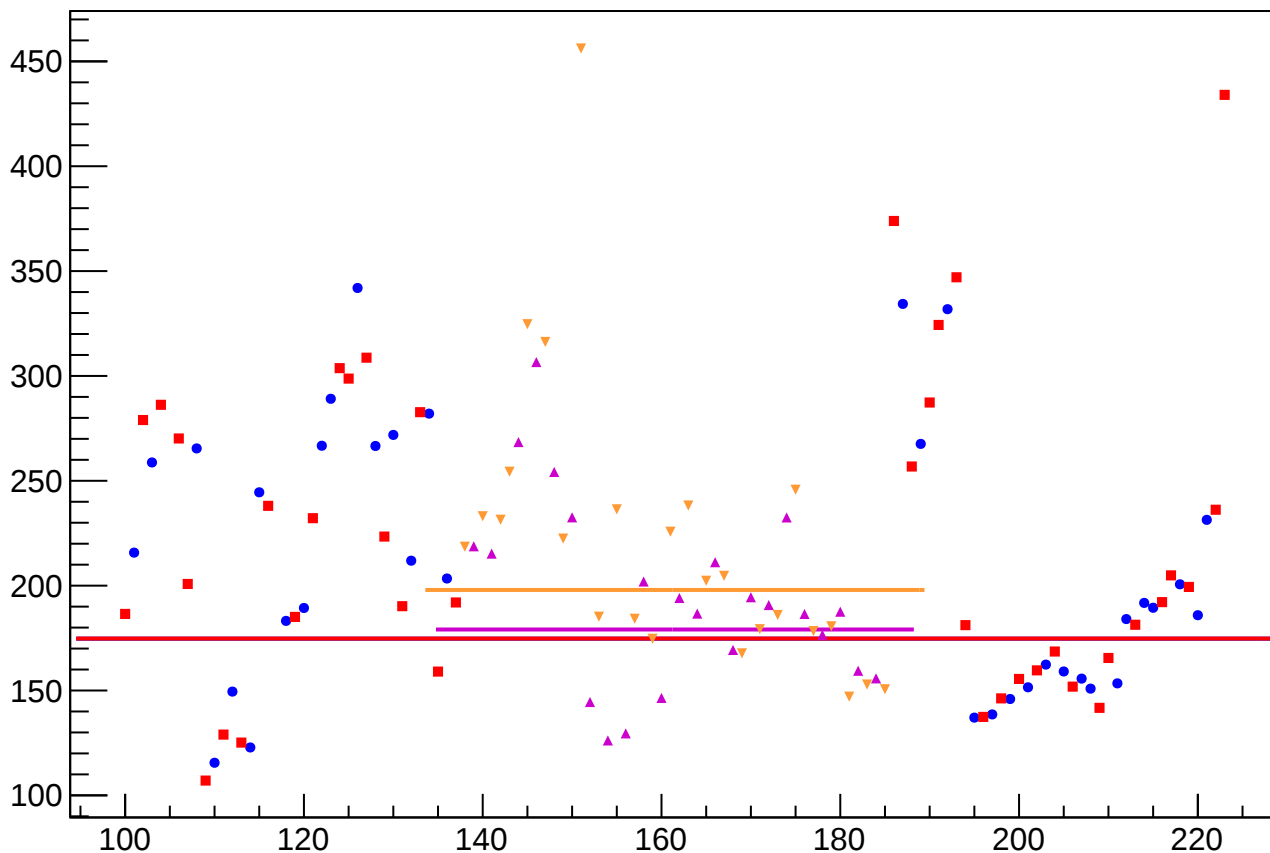
Right: -80.420 ± 28.756 χ^2/NDF : 39.1/73

In: -24.517 ± 30.185 χ^2/NDF : 27.9/57

Out: -48.207 ± 30.971 χ^2/NDF : 32.3/63

All: -36.058 ± 21.616 χ^2/NDF : 60.5/121

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.712 ± 0.029 $\chi^2/\text{NDF}: 2317557.4/34$

Left Out: 197.953 ± 0.034 $\chi^2/\text{NDF}: 1774524.3/24$

Right Out: 174.774 ± 0.029 $\chi^2/\text{NDF}: 3279483.2/38$

Left In: 179.090 ± 0.032 $\chi^2/\text{NDF}: 1605113.3/22$

Left: 187.936 ± 0.023 $\chi^2/\text{NDF}: 3544595.8/47$

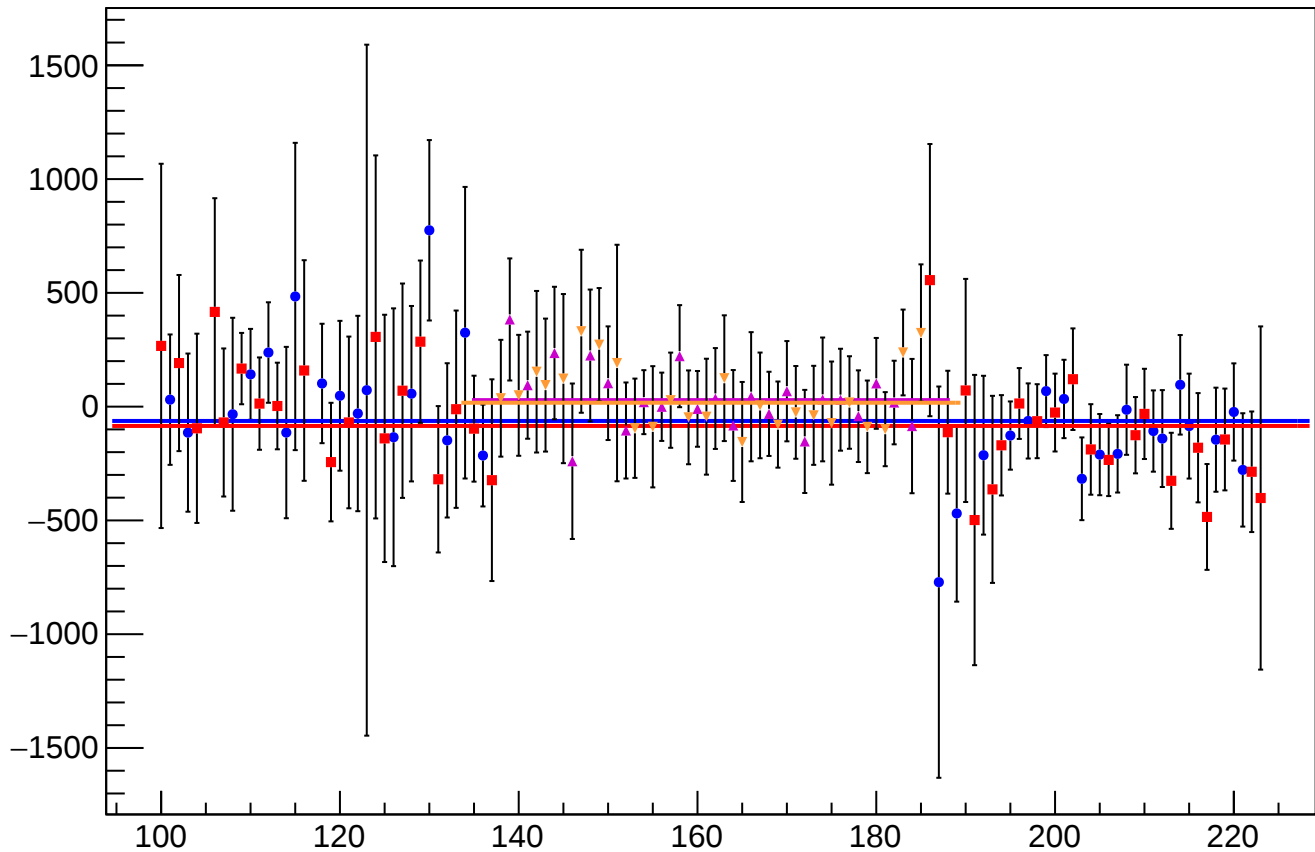
Right: 174.743 ± 0.020 $\chi^2/\text{NDF}: 5597043.0/73$

In: 176.683 ± 0.021 $\chi^2/\text{NDF}: 3933084.9/57$

Out: 184.480 ± 0.022 $\chi^2/\text{NDF}: 5326652.6/63$

All: 180.481 ± 0.015 $\chi^2/\text{NDF}: 9324733.3/123$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -62.854 ± 40.793 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -84.803 ± 40.656 $\chi^2/\text{NDF}: 17.9/38$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

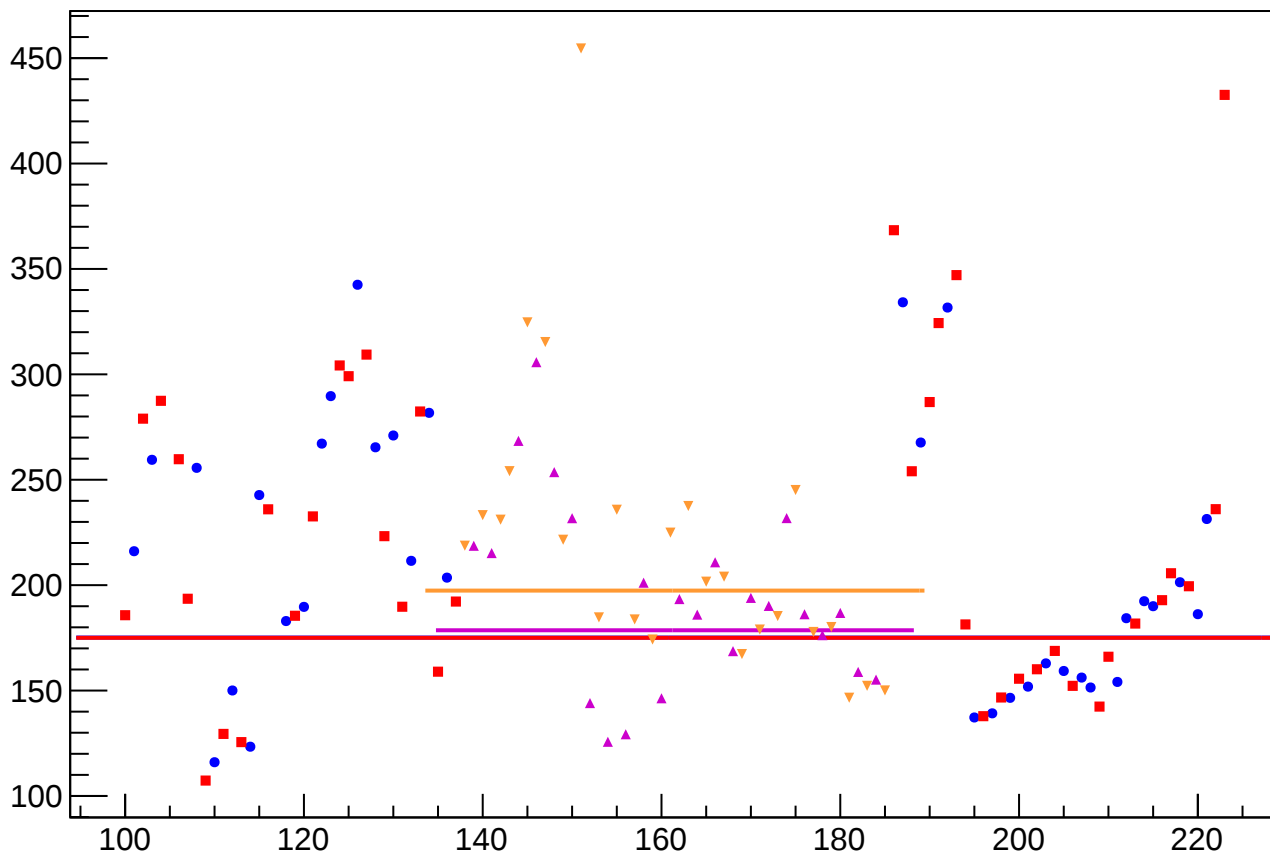
Right: -73.865 ± 28.796 $\chi^2/\text{NDF}: 35.9/73$

In: -21.433 ± 30.180 $\chi^2/\text{NDF}: 26.3/57$

Out: -41.946 ± 30.952 $\chi^2/\text{NDF}: 27.6/63$

All: -31.431 ± 21.608 $\chi^2/\text{NDF}: 54.1/121$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 175.140 $\pm$ 0.029 χ^2 /NDF: 2284058.7/34

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 175.033 $\pm$ 0.029 χ^2 /NDF: 3230140.5/38

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

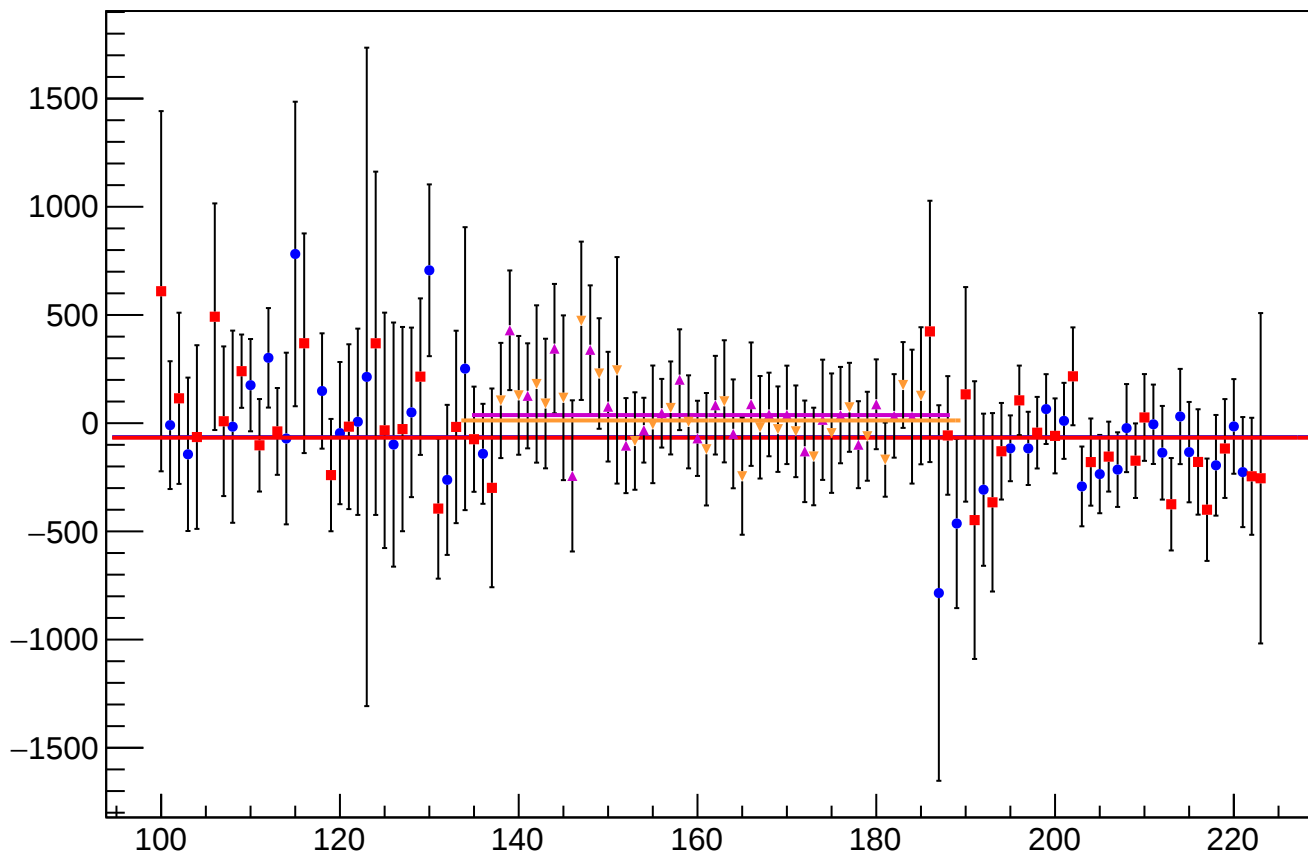
Right: 175.086 $\pm$ 0.020 χ^2 /NDF: 5514206.1/73

In: 176.707 $\pm$ 0.021 χ^2 /NDF:3899573.8/57

Out: 184.445 $\pm$ 0.022 χ^2 /NDF:5265378.1/63

All: 180.478 $\pm$ 0.015 χ^2 /NDF: 9229034.4/123

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -64.638 ± 41.656 $\chi^2/\text{NDF}: 18.3/34$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -66.971 ± 41.689 $\chi^2/\text{NDF}: 19.4/38$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

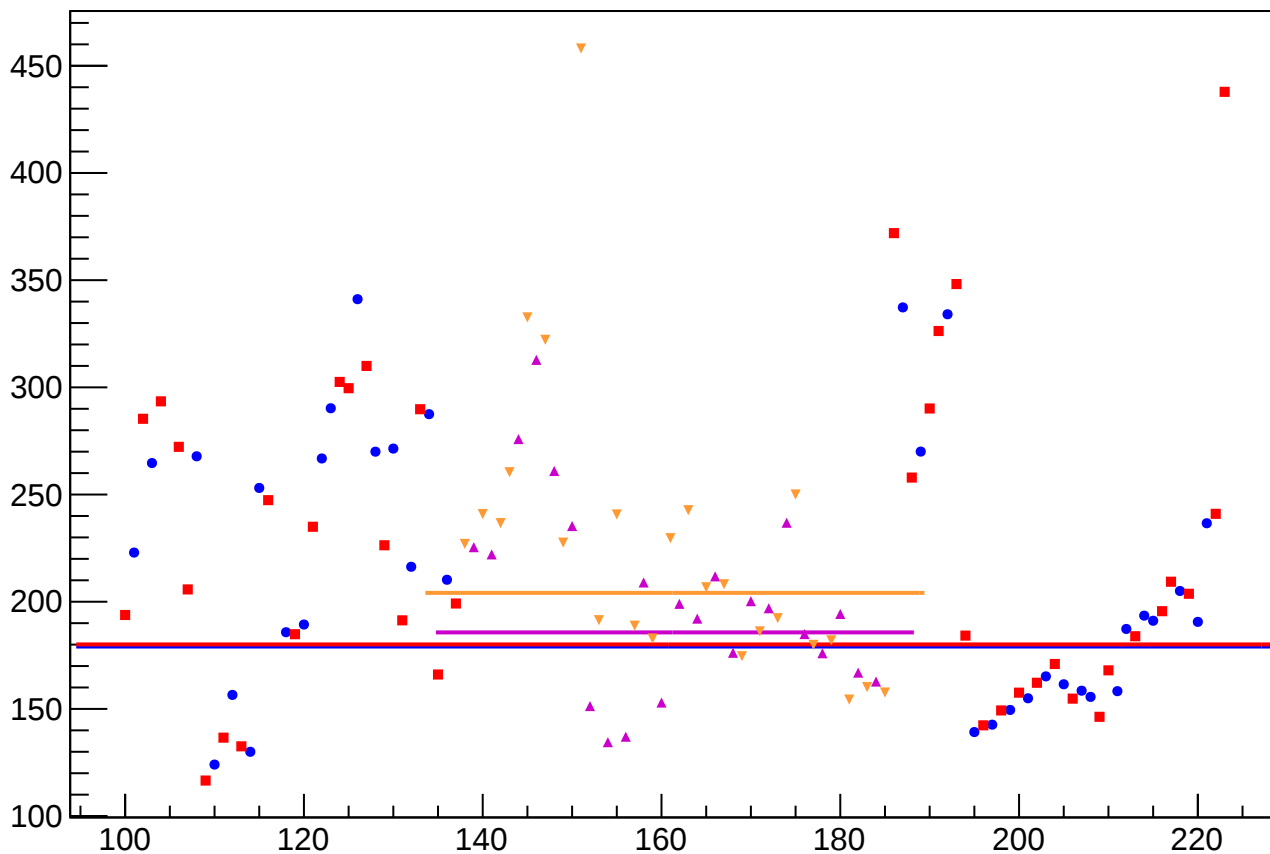
Right: -65.804 ± 29.467 $\chi^2/\text{NDF}: 37.7/73$

In: -19.159 ± 31.021 $\chi^2/\text{NDF}: 28.6/57$

Out: -33.737 ± 31.817 $\chi^2/\text{NDF}: 28.4/63$

All: -26.263 ± 22.211 $\chi^2/\text{NDF}: 57.1/121$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 179.099 $\pm$ 0.029 χ^2 /NDF: 2198081.4/34

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 180.086 $\pm$ 0.029 χ^2 /NDF: 3026452.3/38

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

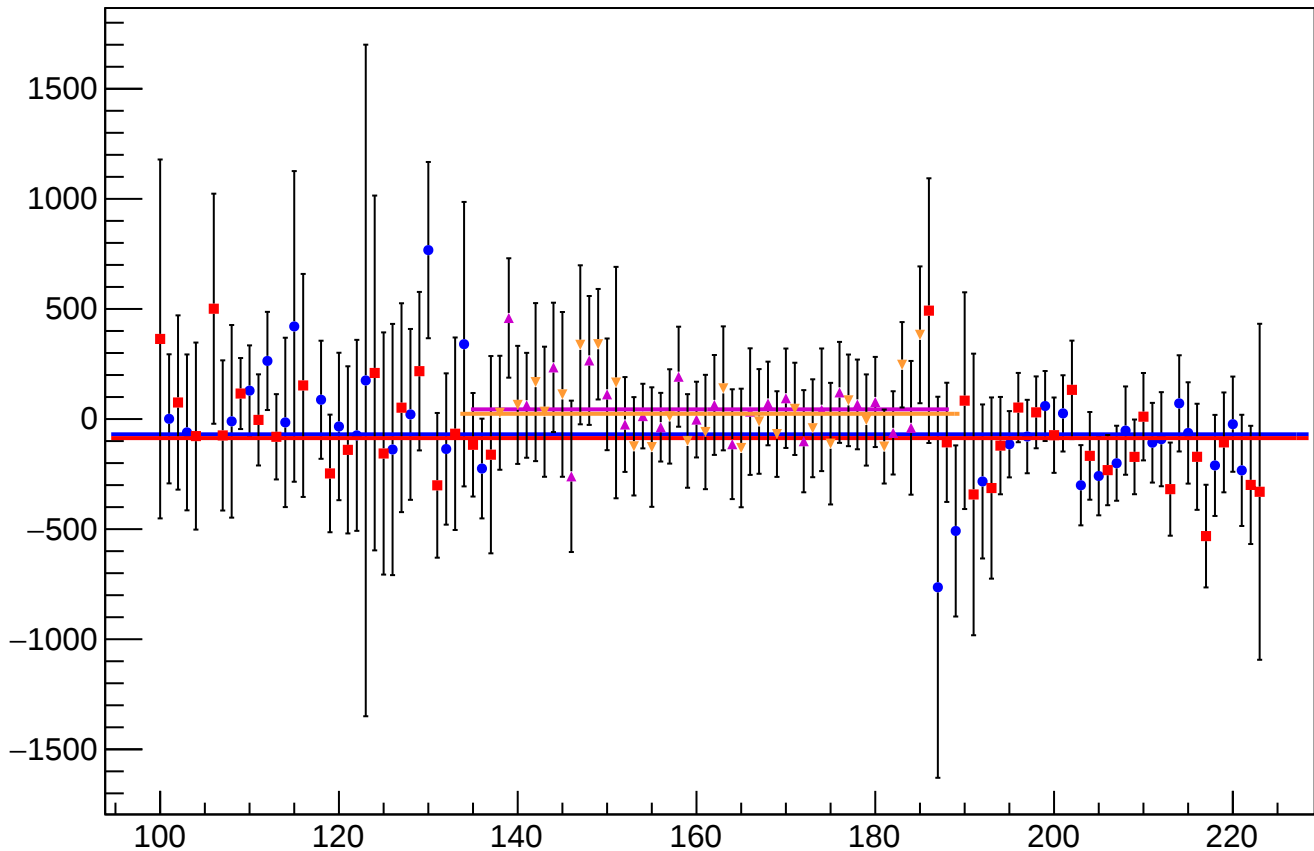
Right: 179.592 $\pm$ 0.021 χ^2 /NDF: 5225095.1/73

In: 182.037 $\pm$ 0.022 χ^2 /NDF:3668176.7/57

Out: 190.125 $\pm$ 0.022 χ^2 /NDF:4976531.7/63

All: 185.978 $\pm$ 0.016 χ^2 /NDF: 8710977.1/123

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -69.381 ± 41.152 $\chi^2/\text{NDF}: 17.5/34$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -86.610 ± 41.075 $\chi^2/\text{NDF}: 16.5/38$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

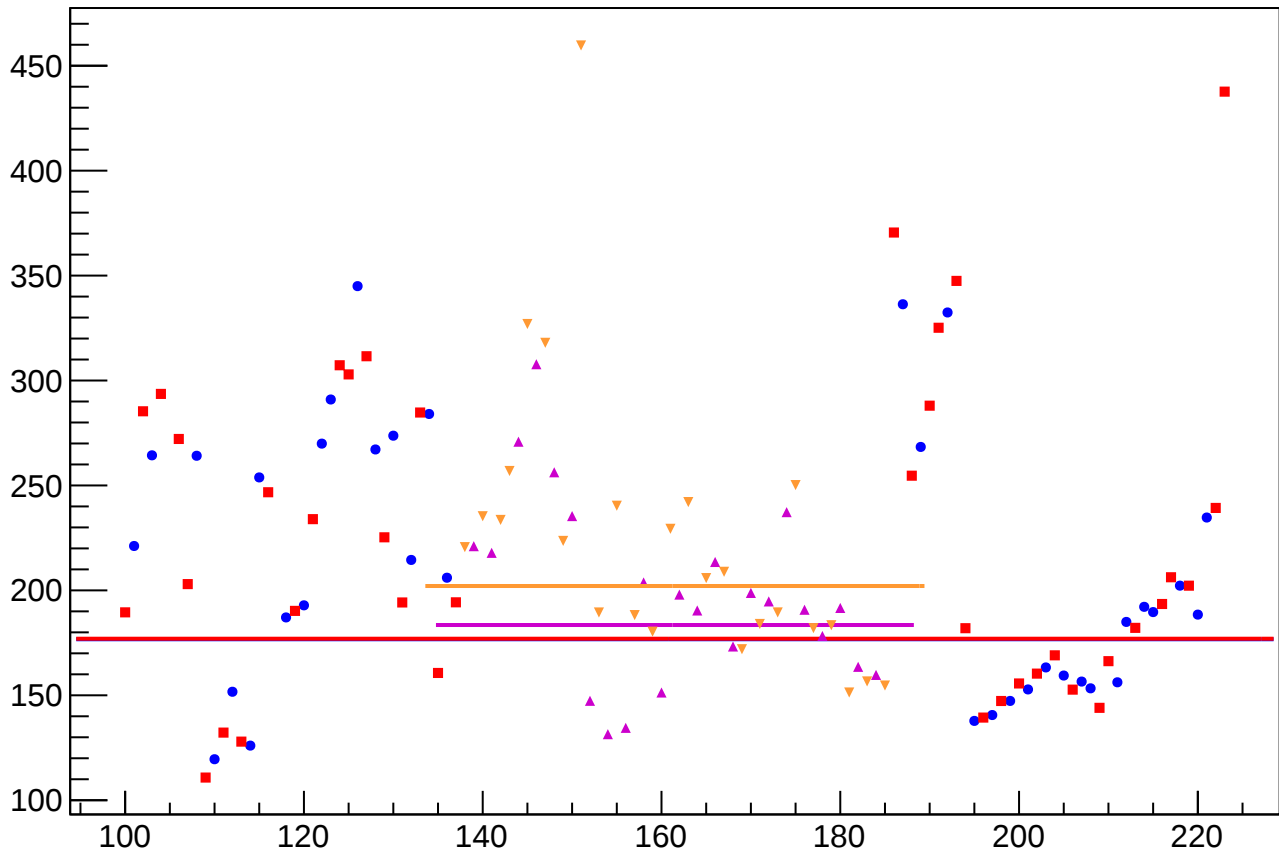
Right: -78.011 ± 29.072 $\chi^2/\text{NDF}: 34.0/73$

In: -18.965 ± 30.664 $\chi^2/\text{NDF}: 27.4/57$

Out: -40.788 ± 31.421 $\chi^2/\text{NDF}: 28.0/63$

All: -29.611 ± 21.945 $\chi^2/\text{NDF}: 55.6/121$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.707 ± 0.029 $\chi^2/\text{NDF}: 2286750.1/34$

Left Out: 202.081 ± 0.034 $\chi^2/\text{NDF}: 1692787.9/24$

Right Out: 176.965 ± 0.029 $\chi^2/\text{NDF}: 3206373.4/38$

Left In: 183.498 ± 0.033 $\chi^2/\text{NDF}: 1483383.4/22$

Left: 192.240 ± 0.024 $\chi^2/\text{NDF}: 3329846.6/47$

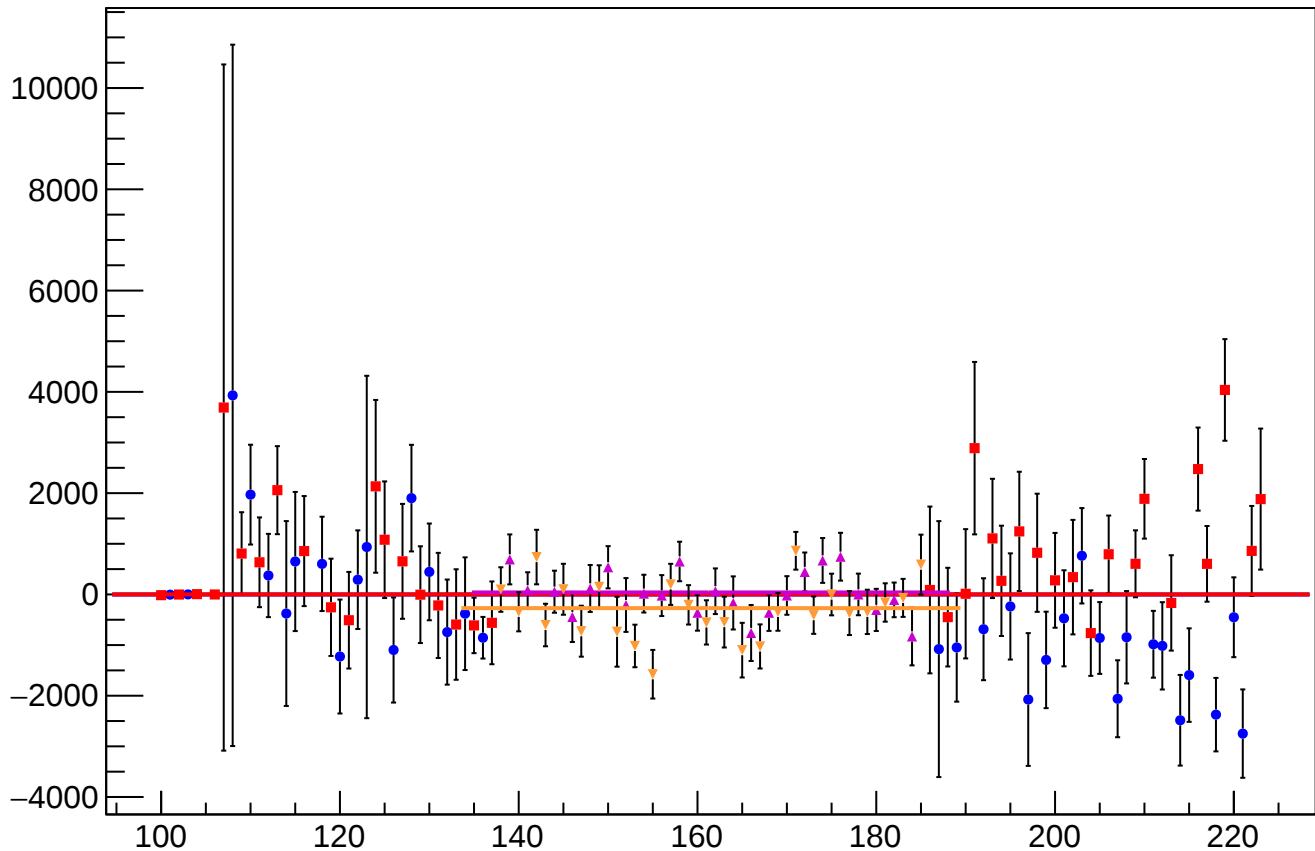
Right: 176.836 ± 0.021 $\chi^2/\text{NDF}: 5493162.7/73$

In: 179.727 ± 0.022 $\chi^2/\text{NDF}: 3794356.5/57$

Out: 187.384 ± 0.022 $\chi^2/\text{NDF}: 5209373.7/63$

All: 183.463 ± 0.016 $\chi^2/\text{NDF}: 9064558.3/123$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.671 ± 2.251 χ^2/NDF : 69.2/34

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.811 ± 2.111 χ^2/NDF : 62.2/38

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

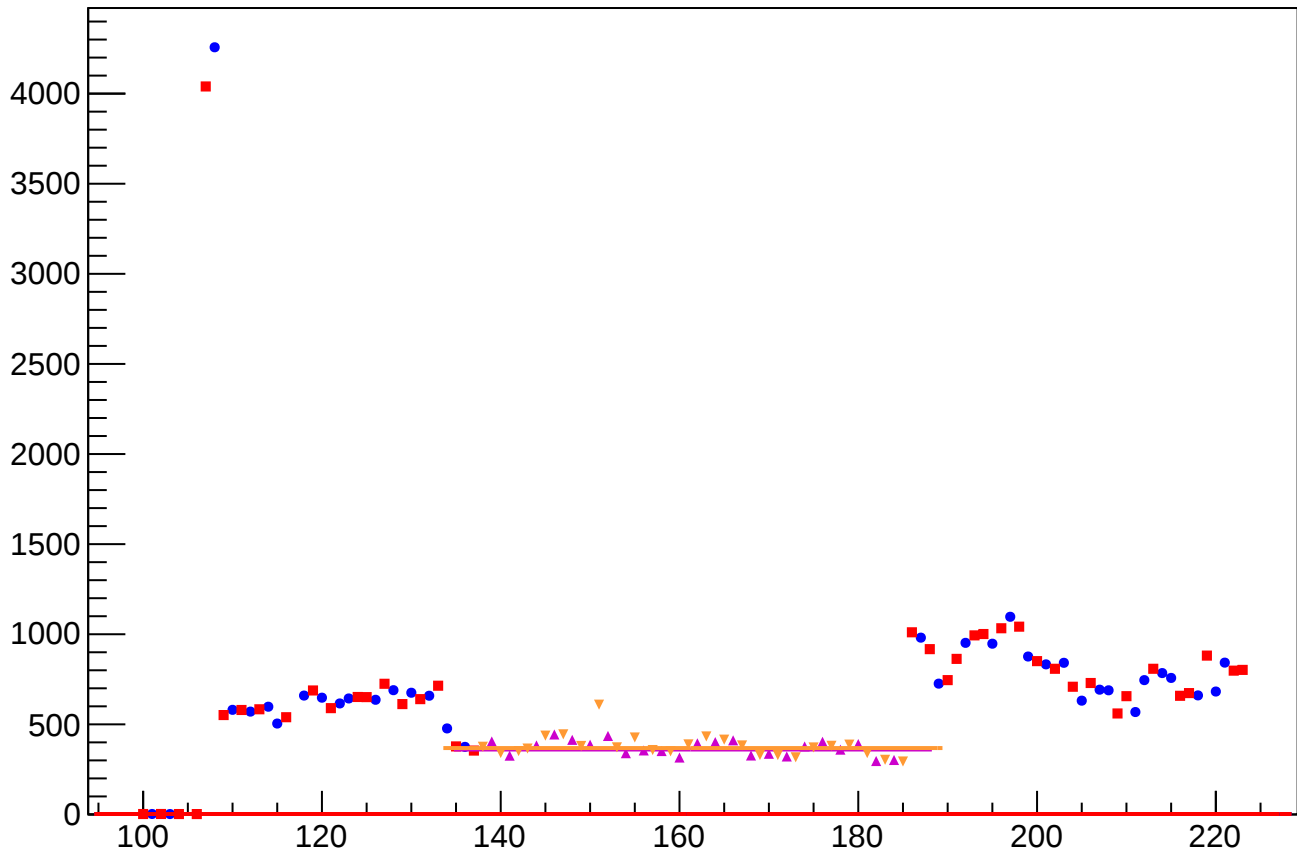
Right: -0.351 ± 1.540 χ^2/NDF : 132.0/73

In: -1.644 ± 2.251 χ^2/NDF : 89.6/57

Out: 0.651 ± 2.110 χ^2/NDF : 110.0/63

All: -0.423 ± 1.539 χ^2/NDF : 200.2/121

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.542 $\pm$ 0.002 χ^2 /NDF: 36787227.8/34

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.511 $\pm$ 0.001 χ^2 /NDF: 37850484.4/38

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

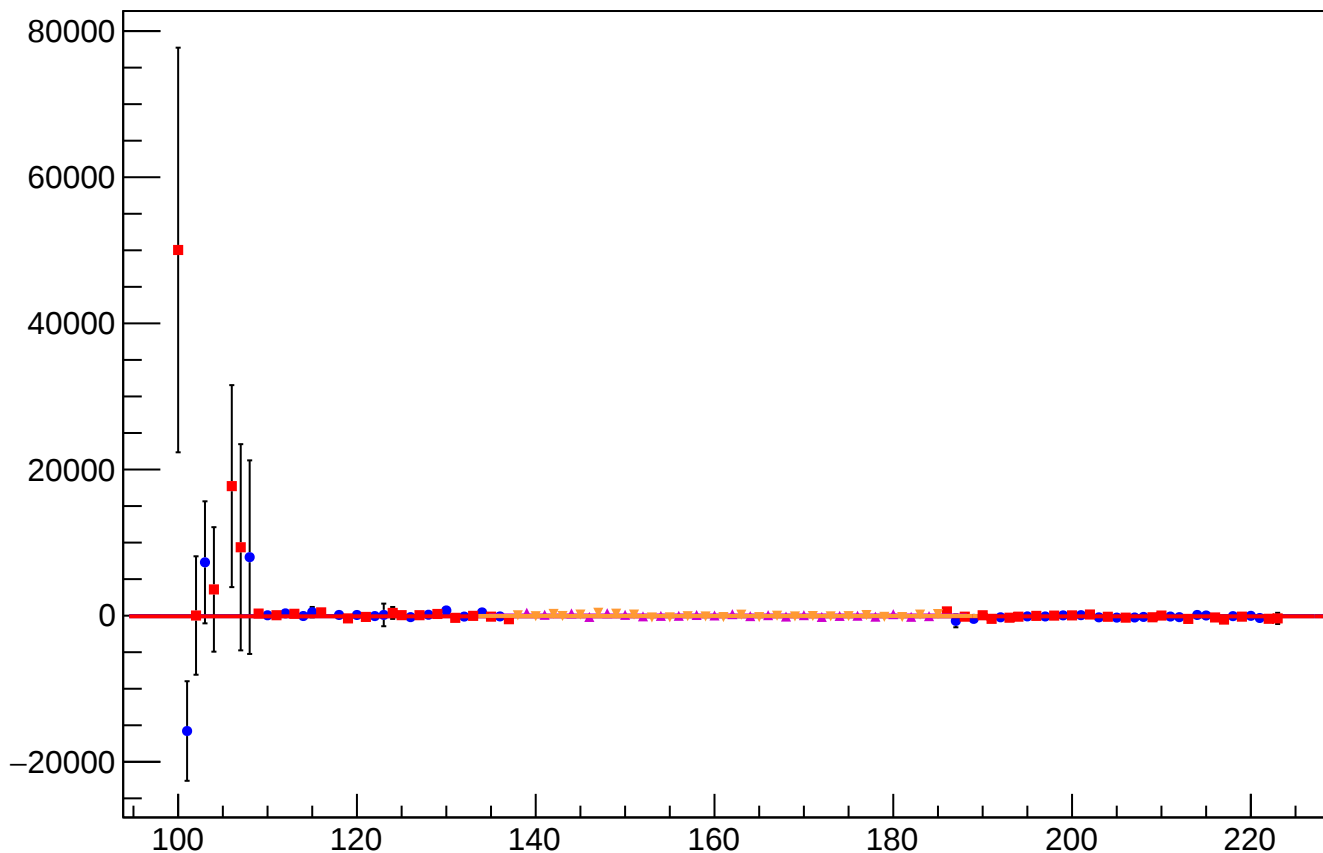
Right: 2.526 $\pm$ 0.001 χ^2 /NDF: 74637917.3/73

In: 2.778 $\pm$ 0.002 χ^2 /NDF: 70432517.6/57

Out: 2.726 $\pm$ 0.001 χ^2 /NDF: 73852618.4/63

All: 2.750 $\pm$ 0.001 χ^2 /NDF: 144285684.3/121

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -64.503 ± 44.654 χ^2/NDF : 22.9/34

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: -91.249 ± 45.224 χ^2/NDF : 29.8/38

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

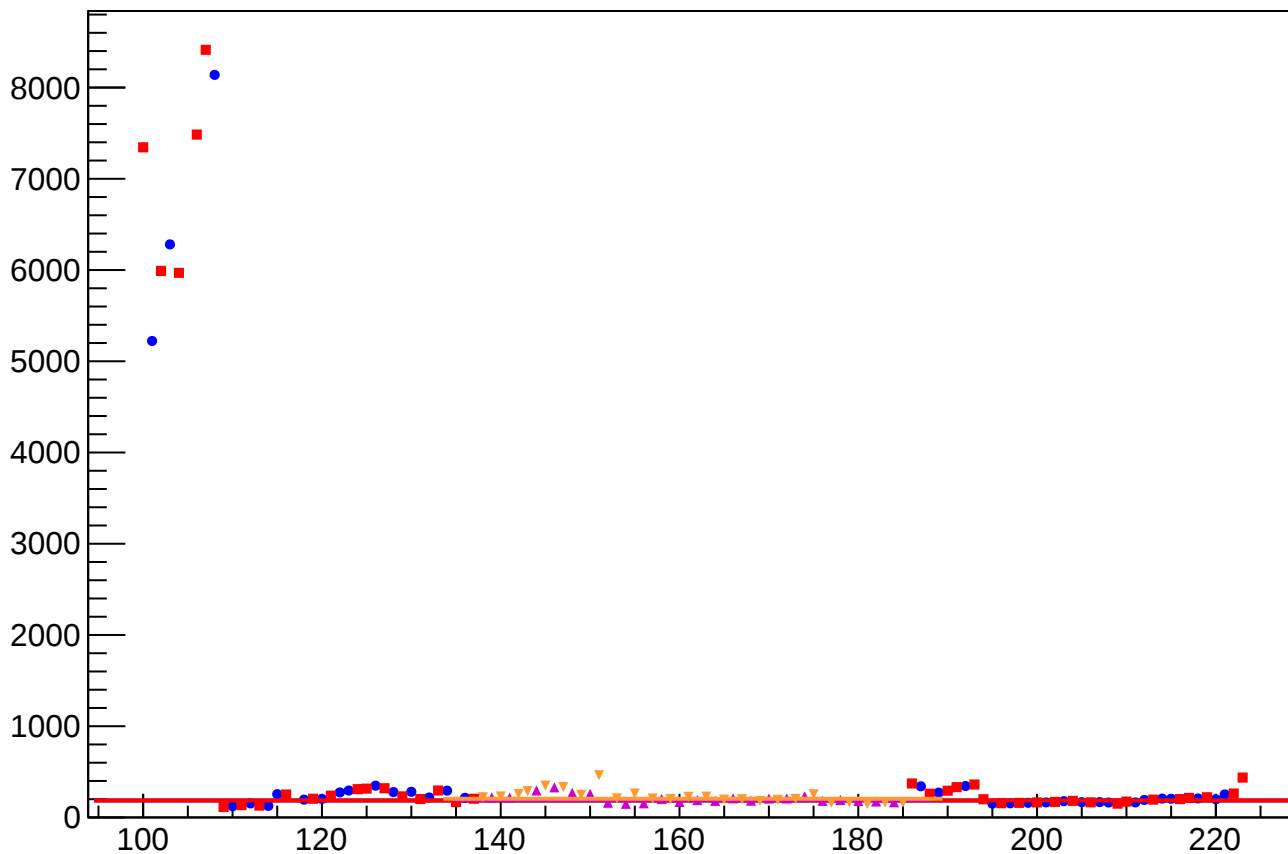
Right: -77.706 ± 31.775 χ^2/NDF : 52.9/73

In: -21.653 ± 32.747 χ^2/NDF : 34.1/57

Out: -67.097 ± 33.427 χ^2/NDF : 39.8/63

All: -43.908 ± 23.392 χ^2/NDF : 74.8/121

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 185.543 $\pm$ 0.032 χ^2 /NDF: 4741427.2/34

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 187.036 $\pm$ 0.032 χ^2 /NDF: 5871351.4/38

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

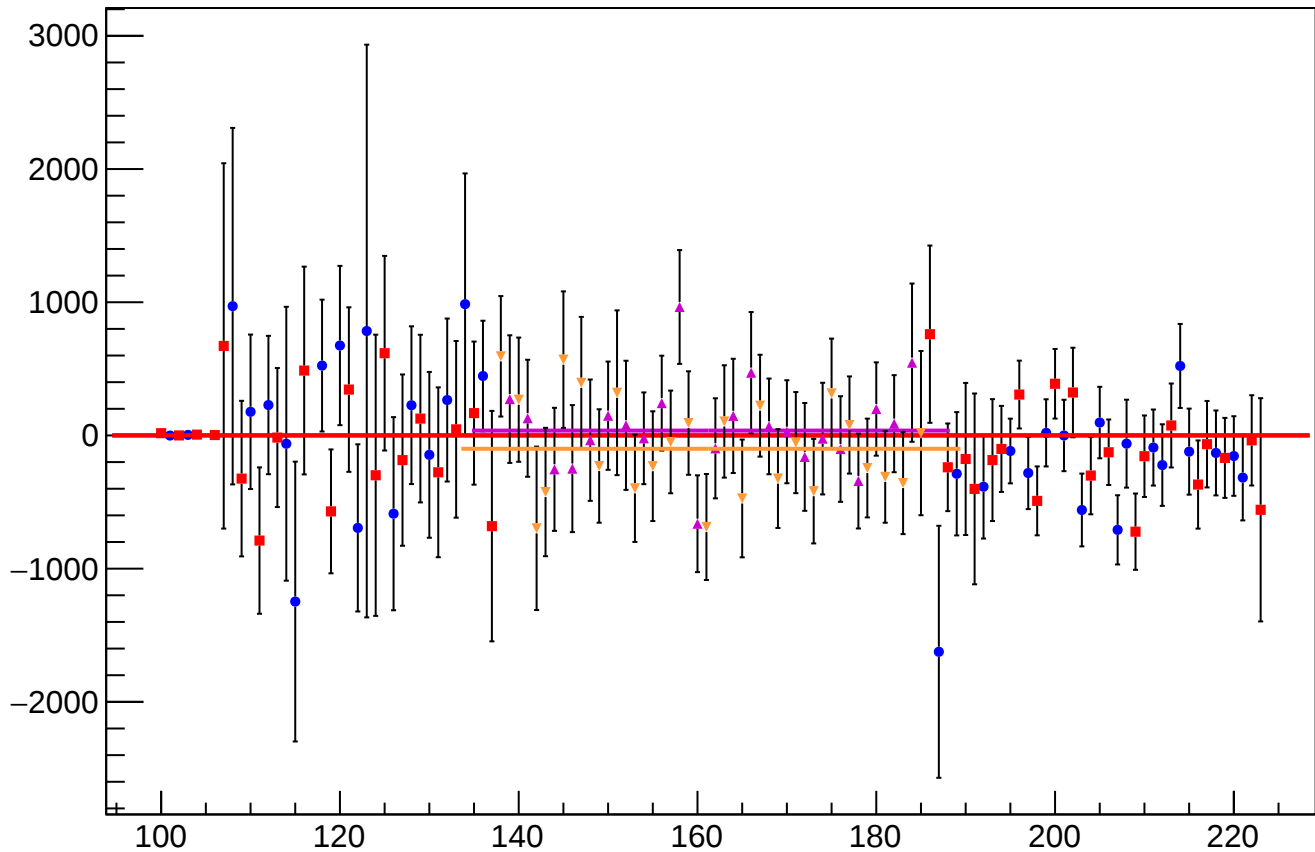
Right: 186.280 $\pm$ 0.022 χ^2 /NDF: 10613881.4/73

In: 189.177 $\pm$ 0.023 χ^2 /NDF:5942247.0/57

Out: 195.198 $\pm$ 0.024 χ^2 /NDF:7970993.8/63

All: 192.125 $\pm$ 0.017 χ^2 /NDF: 13946350.3/12

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.242 ± 1.736 χ^2/NDF : 32.4/34

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.269 ± 1.622 χ^2/NDF : 30.2/38

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

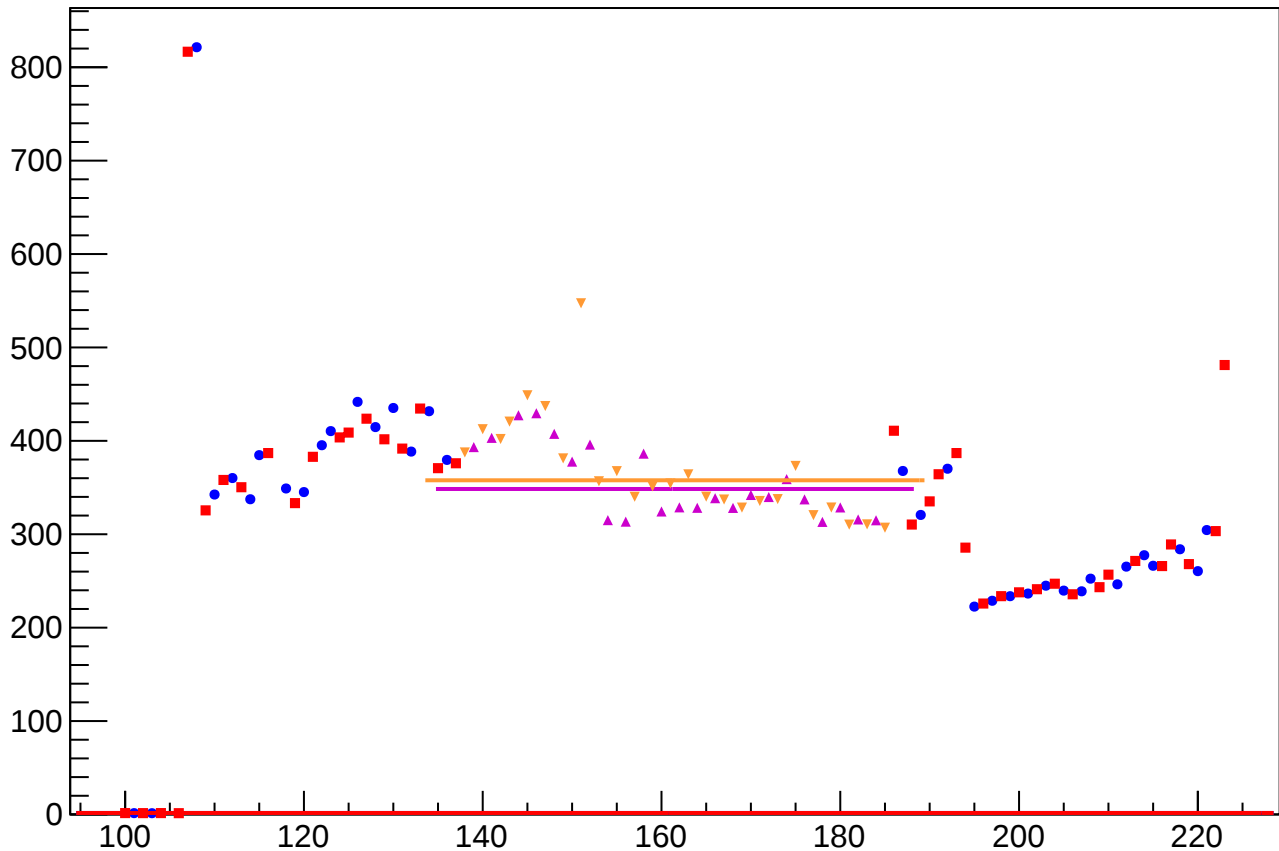
Right: 0.565 ± 1.185 χ^2/NDF : 63.0/73

In: -0.226 ± 1.736 χ^2/NDF : 46.1/57

Out: 1.231 ± 1.622 χ^2/NDF : 47.3/63

All: 0.552 ± 1.185 χ^2/NDF : 93.8/121

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.604 $\pm$ 0.001 χ^2 /NDF: 36922941.7/34

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.580 $\pm$ 0.001 χ^2 /NDF: 37528262.6/38

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF:360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

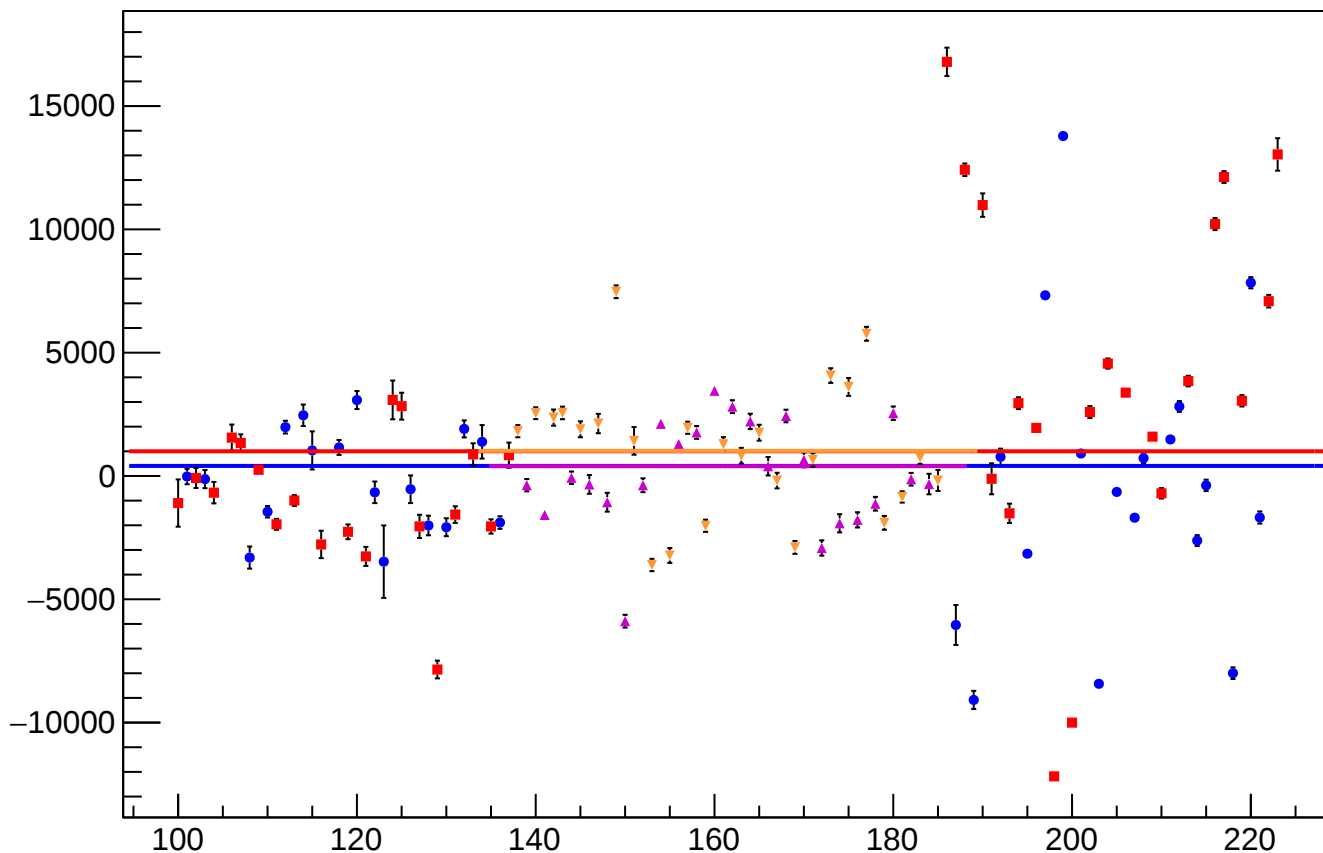
Right: 1.591 $\pm$ 0.001 χ^2 /NDF: 74451403.2/73

In: 1.750 $\pm$ 0.001 χ^2 /NDF:70829513.3/57

Out: 1.713 $\pm$ 0.001 χ^2 /NDF:73861590.7/63

All: 1.730 $\pm$ 0.001 χ^2 /NDF: 144691595.9/121

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 407.495+/-44.117 χ^2/NDF : 13588.0/34

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: 1001.513+/-43.826 χ^2/NDF : 18827.5/38

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

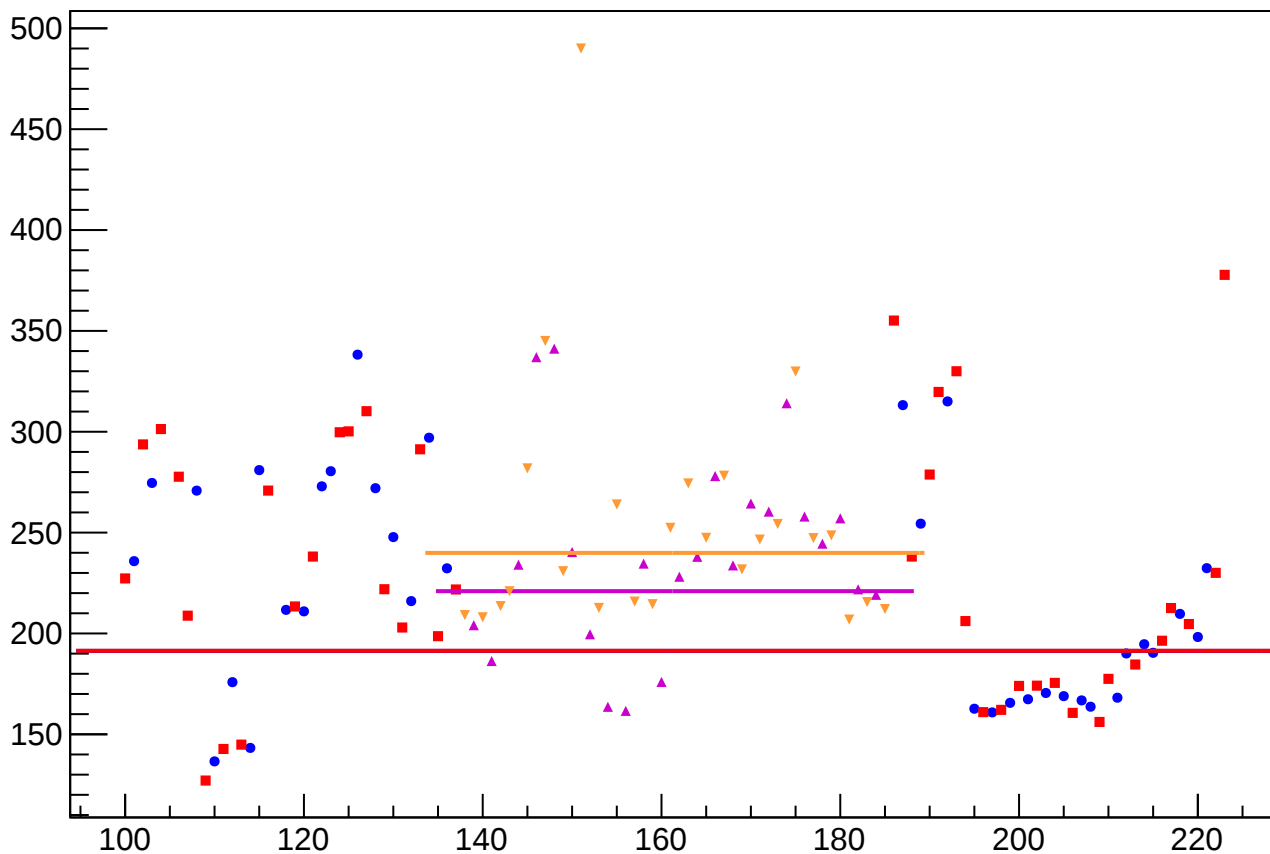
Right: 706.466+/-31.092 χ^2/NDF : 32506.8/73

In: 403.241+/-34.436 χ^2/NDF : 15169.1/57

Out: 1007.940+/-34.834 χ^2/NDF : 21137.7/63

All: 702.114+/-24.489 χ^2/NDF : 36459.2/121

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 191.348+/-0.031 χ^2/NDF : 1622217.8/34

Left Out: 239.942+/-0.041 χ^2/NDF :1000770.0/24

Right Out: 191.405+/-0.031 χ^2/NDF : 2363693.9/38

Left In: 220.972+/-0.039 χ^2/NDF :1327680.6/22

Left: 230.067+/-0.028 χ^2/NDF : 2442154.9/47

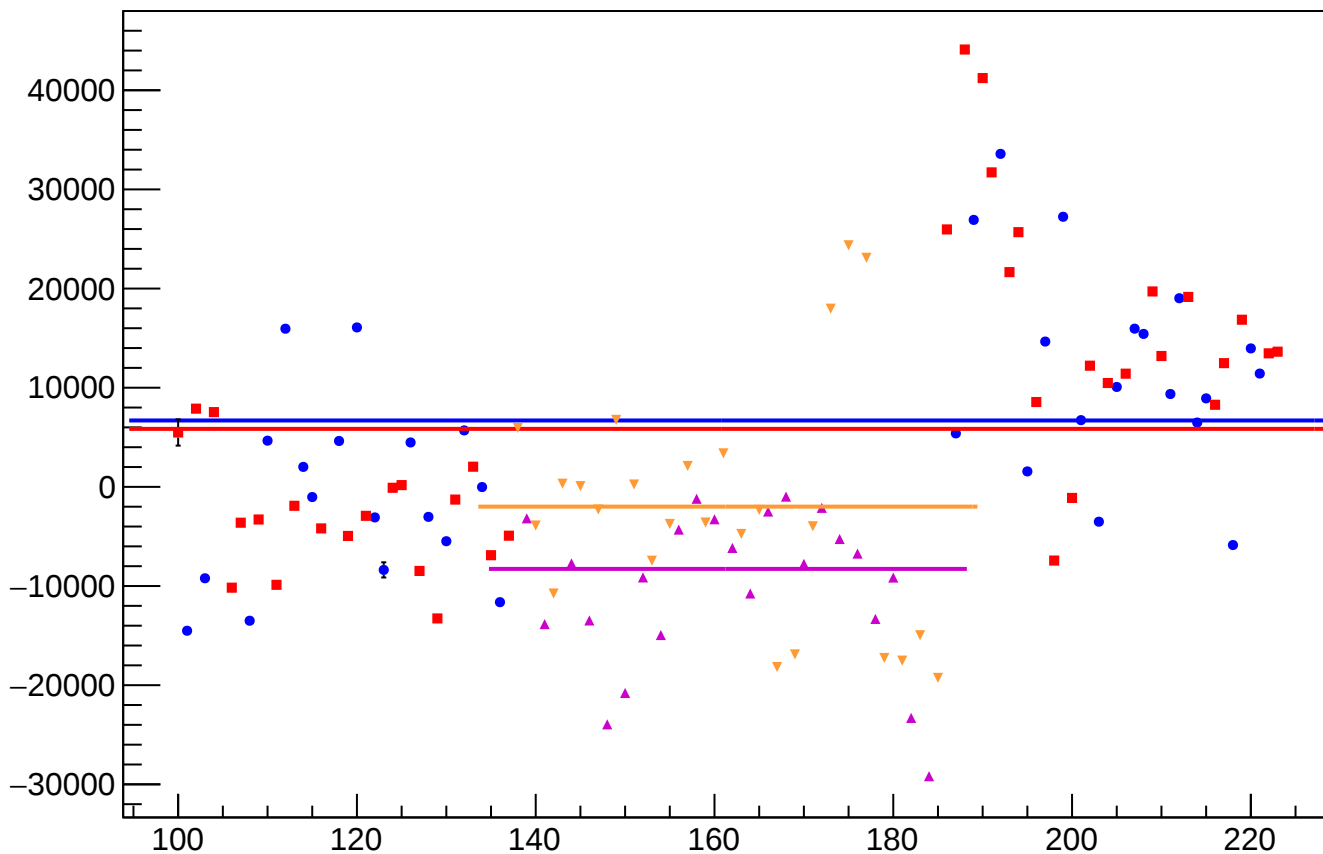
Right: 191.377+/-0.022 χ^2/NDF : 3985913.3/73

In: 202.923+/-0.024 χ^2/NDF :3302236.2/57

Out: 209.279+/-0.025 χ^2/NDF :4267818.3/63

All: 206.064+/-0.017 χ^2/NDF : 7603732.5/123

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6697.508+/-38.234 χ^2/NDF : 97322.3/34

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5850.091+/-37.010 χ^2/NDF : 148135.6/38

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

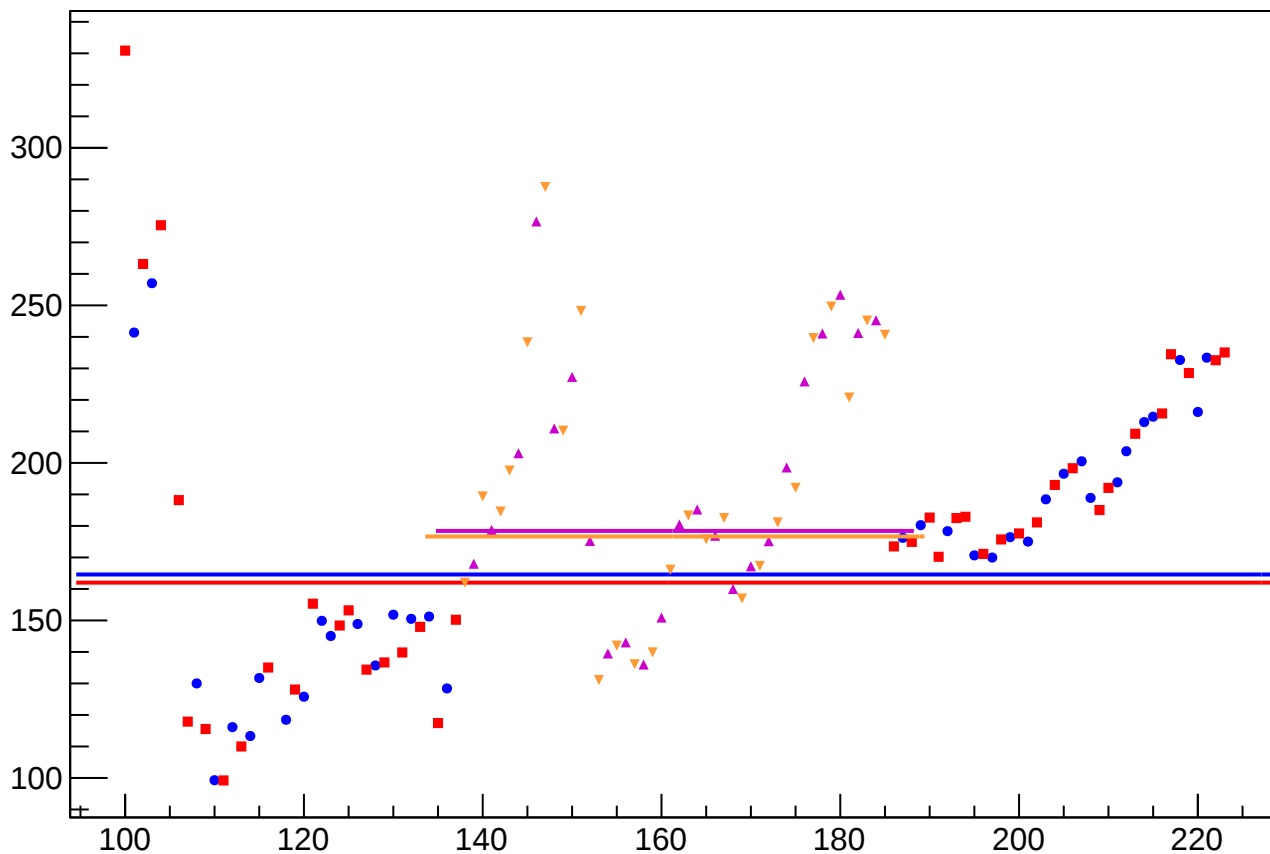
Right: 6260.012+/-26.592 χ^2/NDF : 245711.4/73

In: 306.643+/-28.945 χ^2/NDF : 185640.0/57

Out: 2461.421+/-27.890 χ^2/NDF : 231302.7/63

All: 1424.027+/-20.084 χ^2/NDF : 419816.4/12

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 164.590 $\pm$ 0.027 χ^2 /NDF: 2040126.8/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 162.008 $\pm$ 0.026 χ^2 /NDF: 2363907.1/38

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

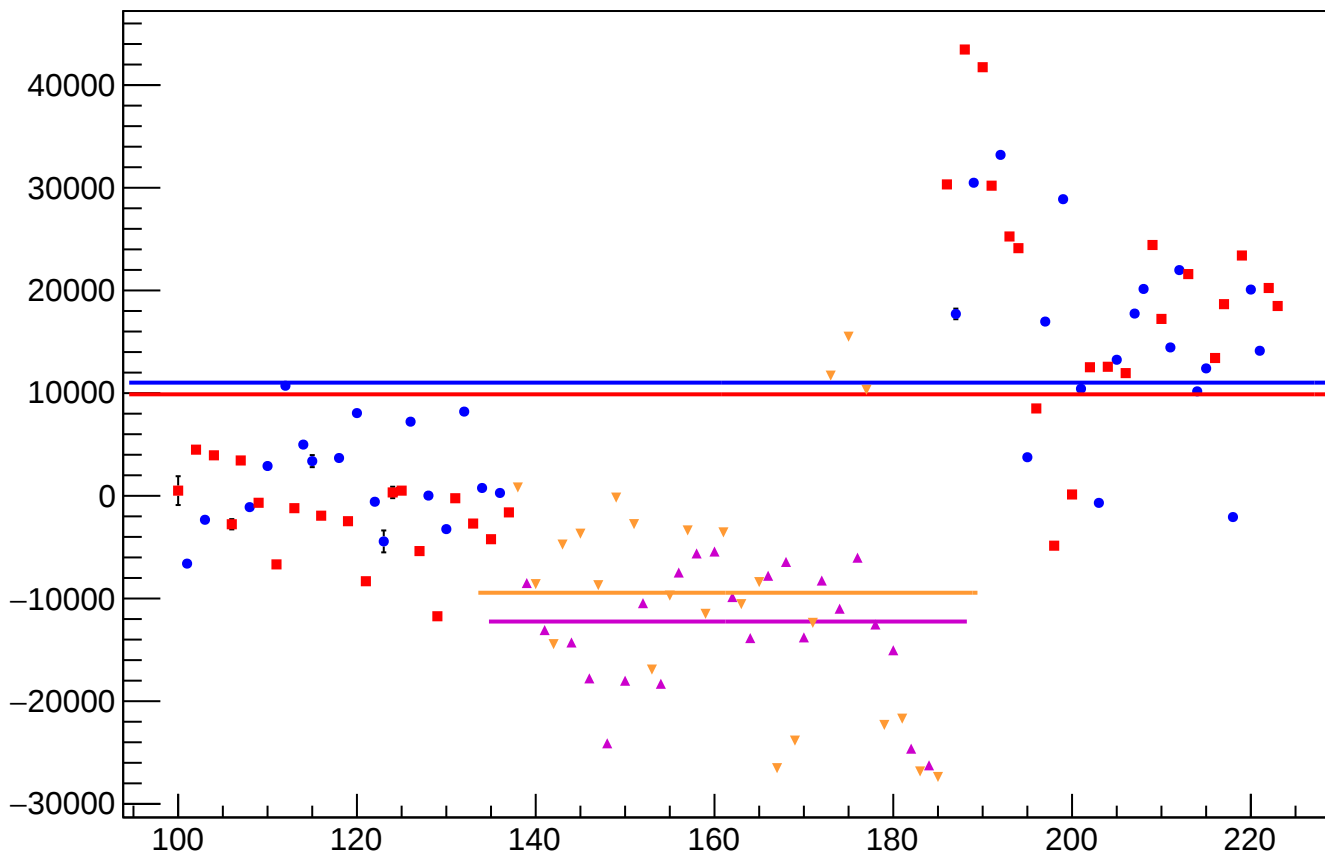
Right: 163.257 $\pm$ 0.019 χ^2 /NDF: 4408742.5/73

In: 170.491 $\pm$ 0.020 χ^2 /NDF:3445468.4/57

Out: 168.331 $\pm$ 0.020 χ^2 /NDF:4050062.5/63

All: 169.371 $\pm$ 0.014 χ^2 /NDF: 7501305.6/123

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11022.905 $\pm$ 41.709

χ^2/NDF : 59144.8/34

Left: -10889.638 $\pm$ 31.621 χ^2/NDF : 80800.7/47

Right: 10437.346 $\pm$ 29.059 χ^2/NDF : 182159.5/73

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

In: -2.782 $\pm$ 30.252 χ^2/NDF : 223215.6/57

Right Out: 9885.006 $\pm$ 40.508

χ^2/NDF : 122631.7/38

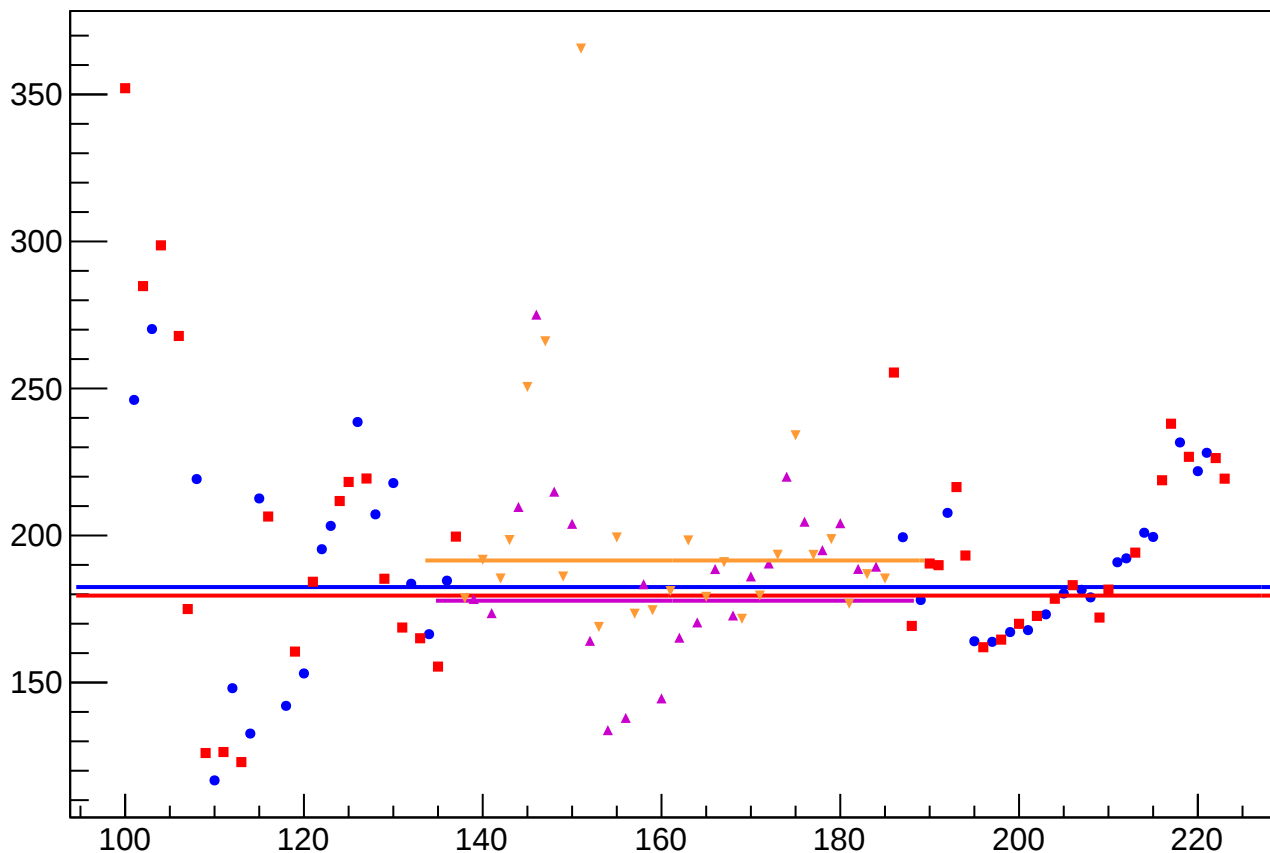
Out: 1348.648 $\pm$ 30.265 χ^2/NDF : 285370.6/63

Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: 672.636 $\pm$ 21.396 χ^2/NDF : 509583.5/121

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 182.464 $\pm$ 0.029 χ^2 /NDF: 1031770.9/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.563 $\pm$ 0.029 χ^2 /NDF: 1482998.4/38

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

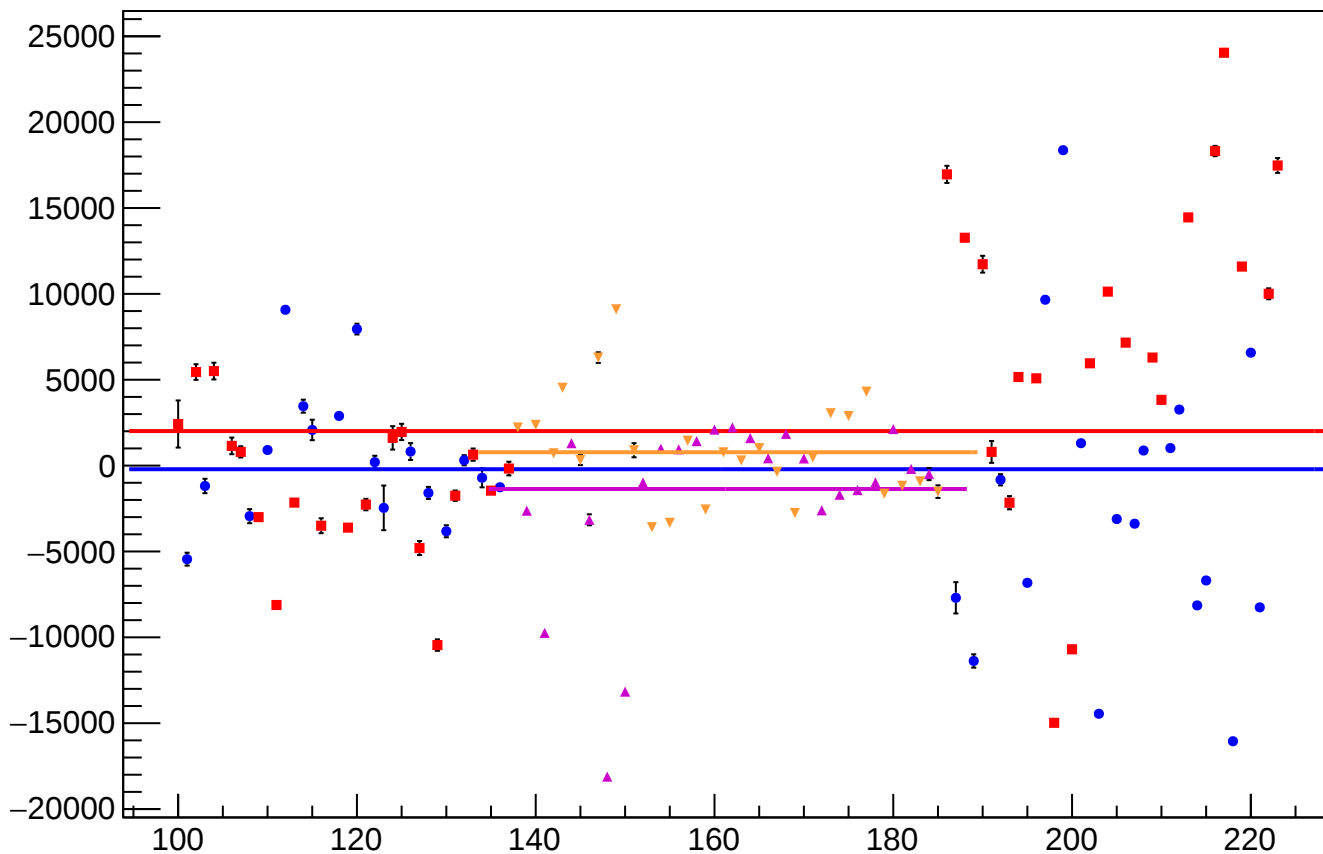
Right: 180.971 $\pm$ 0.021 χ^2 /NDF: 2519746.4/73

In: 180.264 $\pm$ 0.021 χ^2 /NDF: 1906006.6/57

Out: 184.840 $\pm$ 0.021 χ^2 /NDF: 2287061.1/63

All: 182.551 $\pm$ 0.015 χ^2 /NDF: 4215938.5/123

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -210.334 ± 46.763 $\chi^2/\text{NDF}: 26900.0/34$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 2011.048 ± 45.665 $\chi^2/\text{NDF}: 37736.8/38$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

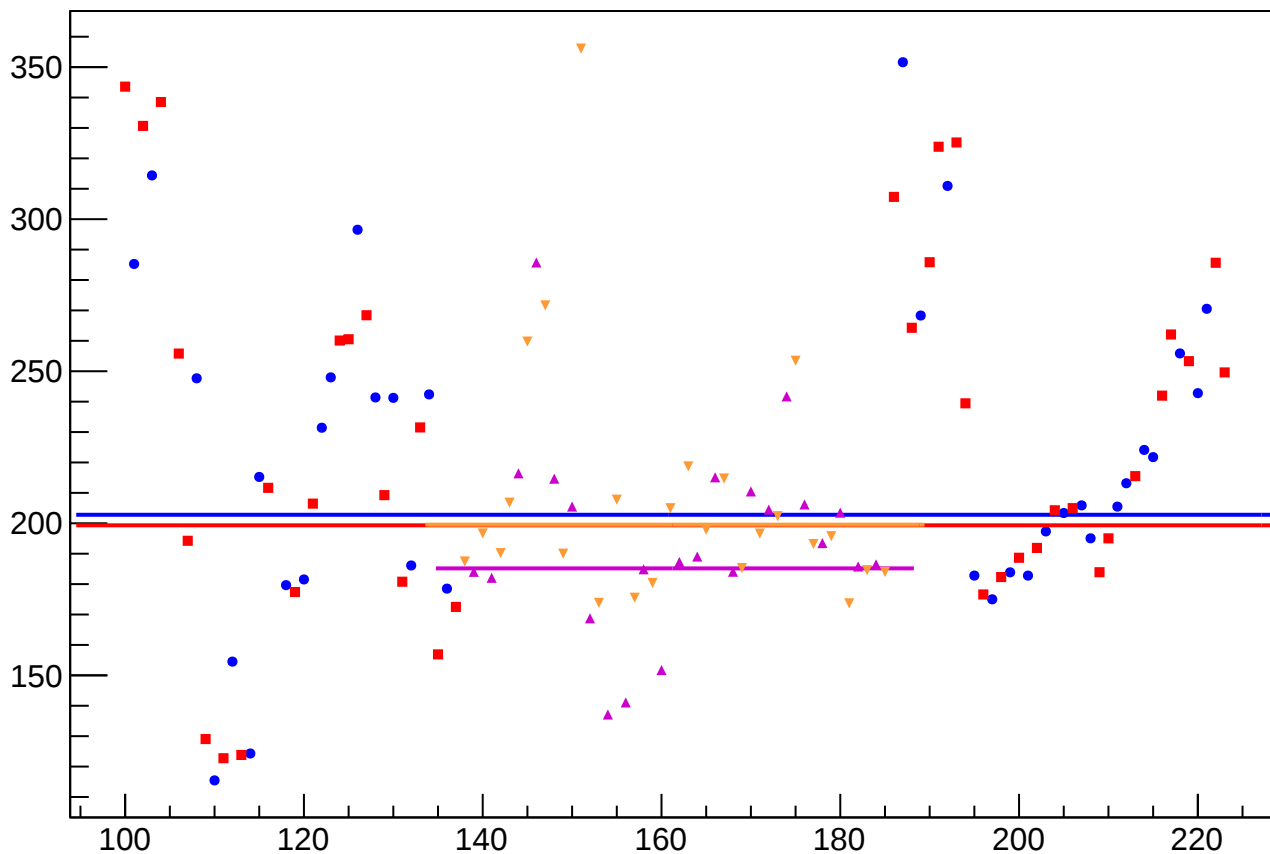
Right: 926.737 ± 32.671 $\chi^2/\text{NDF}: 65791.9/73$

In: -798.592 ± 32.723 $\chi^2/\text{NDF}: 38843.0/57$

Out: 1419.203 ± 32.905 $\chi^2/\text{NDF}: 42347.0/63$

All: 304.141 ± 23.203 $\chi^2/\text{NDF}: 83473.9/121$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 202.799 ± 0.033 $\chi^2/\text{NDF}: 1712407.3/34$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 199.334 ± 0.032 $\chi^2/\text{NDF}: 2581540.0/38$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

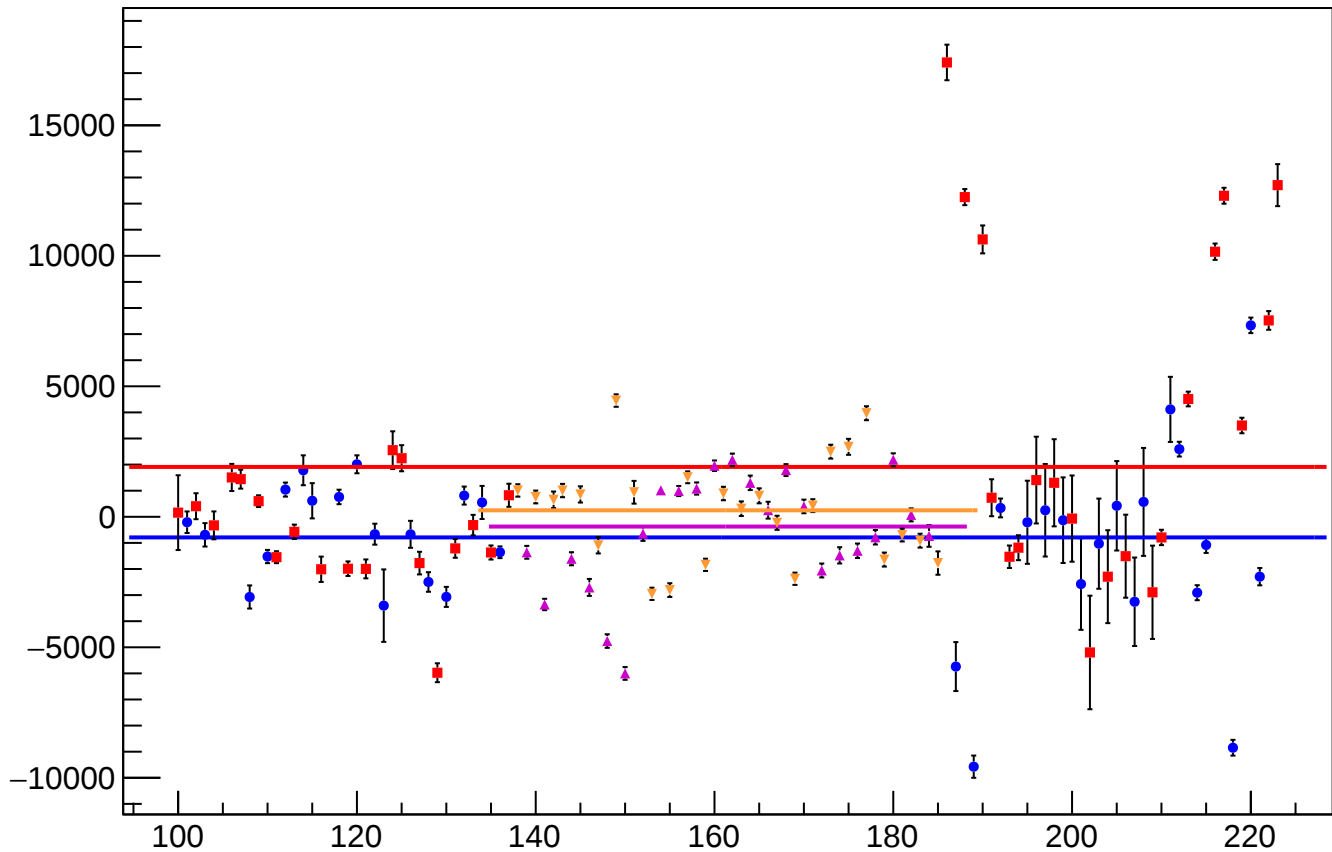
Right: 201.026 ± 0.023 $\chi^2/\text{NDF}: 4299567.5/73$

In: 193.803 ± 0.023 $\chi^2/\text{NDF}: 2740206.9/57$

Out: 199.436 ± 0.023 $\chi^2/\text{NDF}: 3310917.1/63$

All: 196.604 ± 0.016 $\chi^2/\text{NDF}: 6080599.2/123$

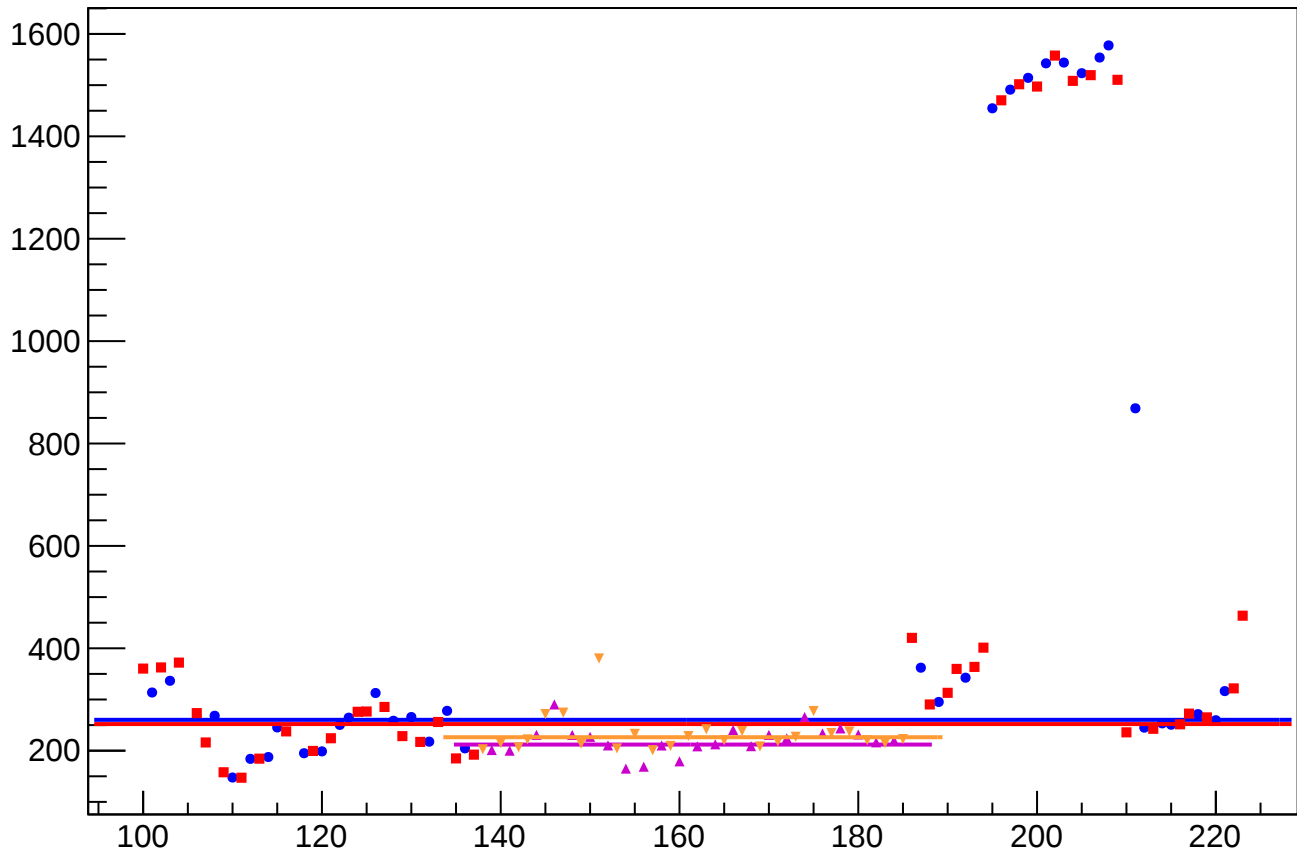
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -789.969 ± 68.820 $\chi^2/\text{NDF}: 2454.1/34$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 1911.171 ± 64.036 $\chi^2/\text{NDF}: 6081.0/38$
 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: 657.734 ± 46.881 $\chi^2/\text{NDF}: 9360.8/73$
 In: -525.435 ± 41.513 $\chi^2/\text{NDF}: 4278.3/57$
 Out: 932.416 ± 41.082 $\chi^2/\text{NDF}: 7833.1/63$
 All: 211.109 ± 29.200 $\chi^2/\text{NDF}: 12734.5/121$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 260.297+/-0.049 χ^2/NDF : 10211166.5/34

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 251.996+/-0.045 χ^2/NDF : 9515246.9/38

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

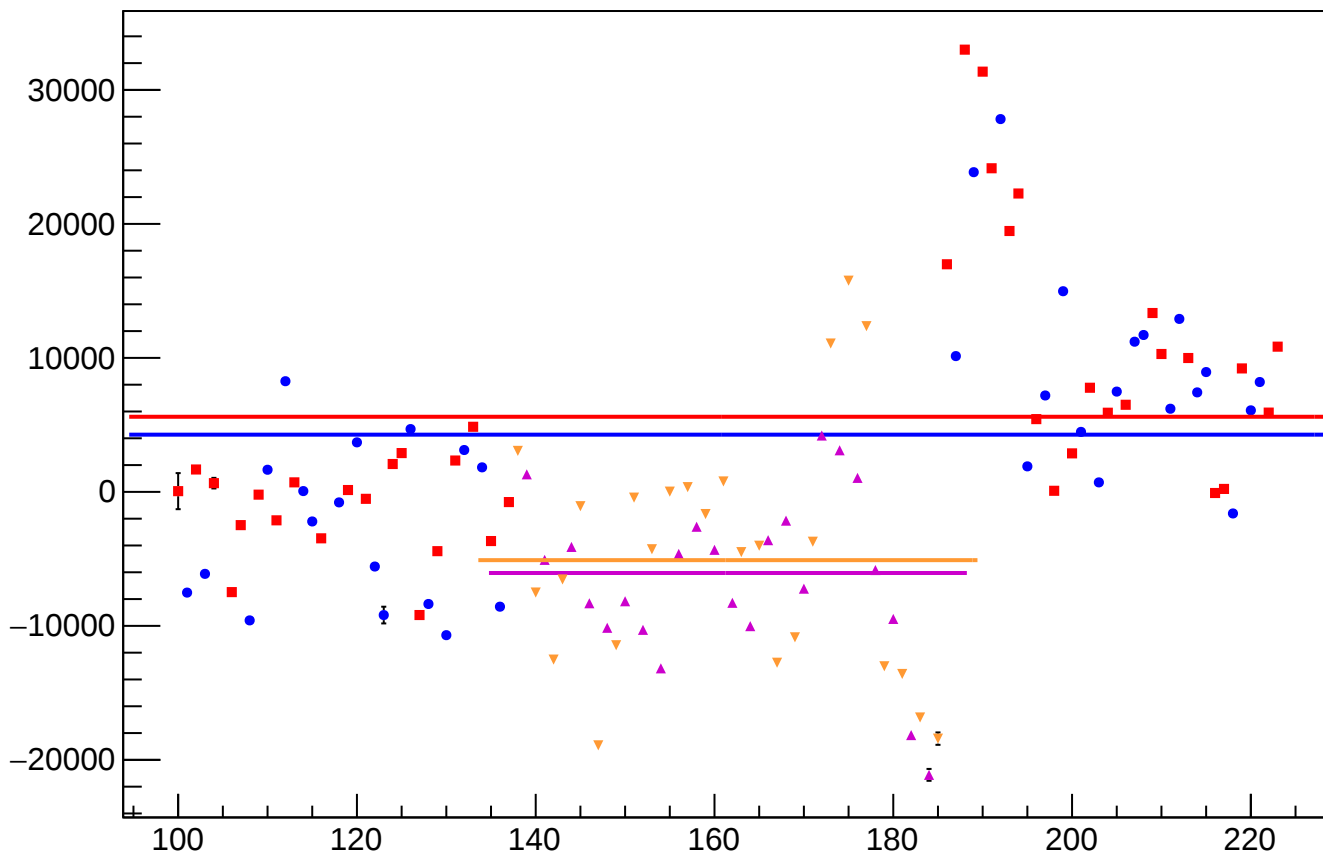
Right: 255.848+/-0.033 χ^2/NDF : 19742006.7/73

In: 229.555+/-0.029 χ^2/NDF : 11422870.1/57

Out: 236.888+/-0.029 χ^2/NDF : 10225466.4/63

All: 233.260+/-0.021 χ^2/NDF : 21679873.1/12

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4270.727+/-32.521 χ^2/NDF : 81247.8/34

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5606.557+/-31.271 χ^2/NDF : 105593.2/38

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

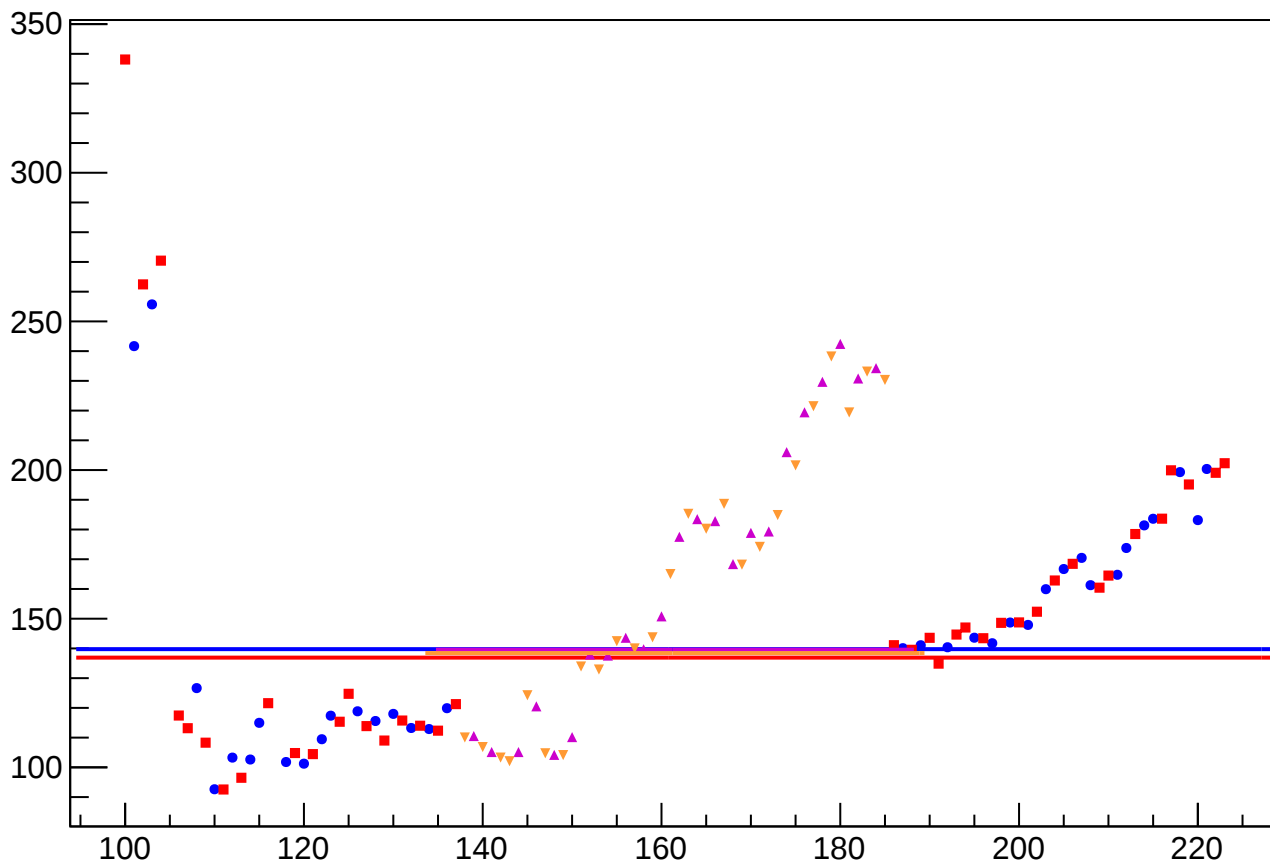
Right: 4964.801+/-22.541 χ^2/NDF : 187717.6/73

In: -513.182+/-23.823 χ^2/NDF : 145537.6/57

Out: 655.642+/-22.924 χ^2/NDF : 214170.0/63

All: 93.715+/-16.518 χ^2/NDF : 360957.5/121

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 139.759 $\pm$ 0.023 χ^2 /NDF: 2059540.7/34

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF:2549435.8/24

Right Out: 136.908 $\pm$ 0.022 χ^2 /NDF: 2249721.8/38

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF:2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

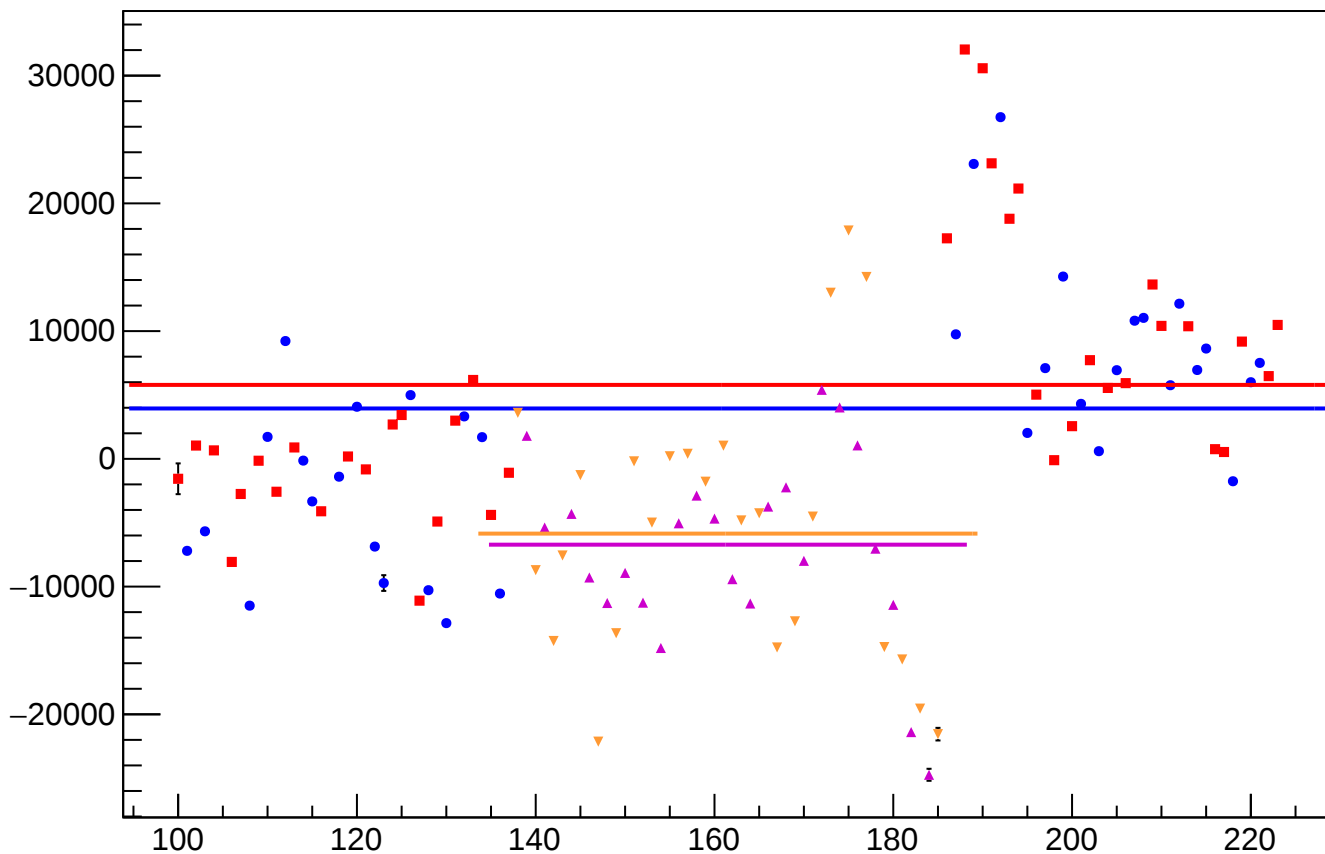
Right: 138.278 $\pm$ 0.016 χ^2 /NDF: 4317247.6/73

In: 139.675 $\pm$ 0.017 χ^2 /NDF:4473228.5/57

Out: 137.615 $\pm$ 0.016 χ^2 /NDF:4801364.3/63

All: 138.605 $\pm$ 0.012 χ^2 /NDF: 9282358.5/123

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3943.926+/-32.389 χ^2/NDF : 86371.1/34

Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24

Right Out: 5789.283+/-31.263 χ^2/NDF : 106256.5/38

Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850 χ^2/NDF : 84625.8/47

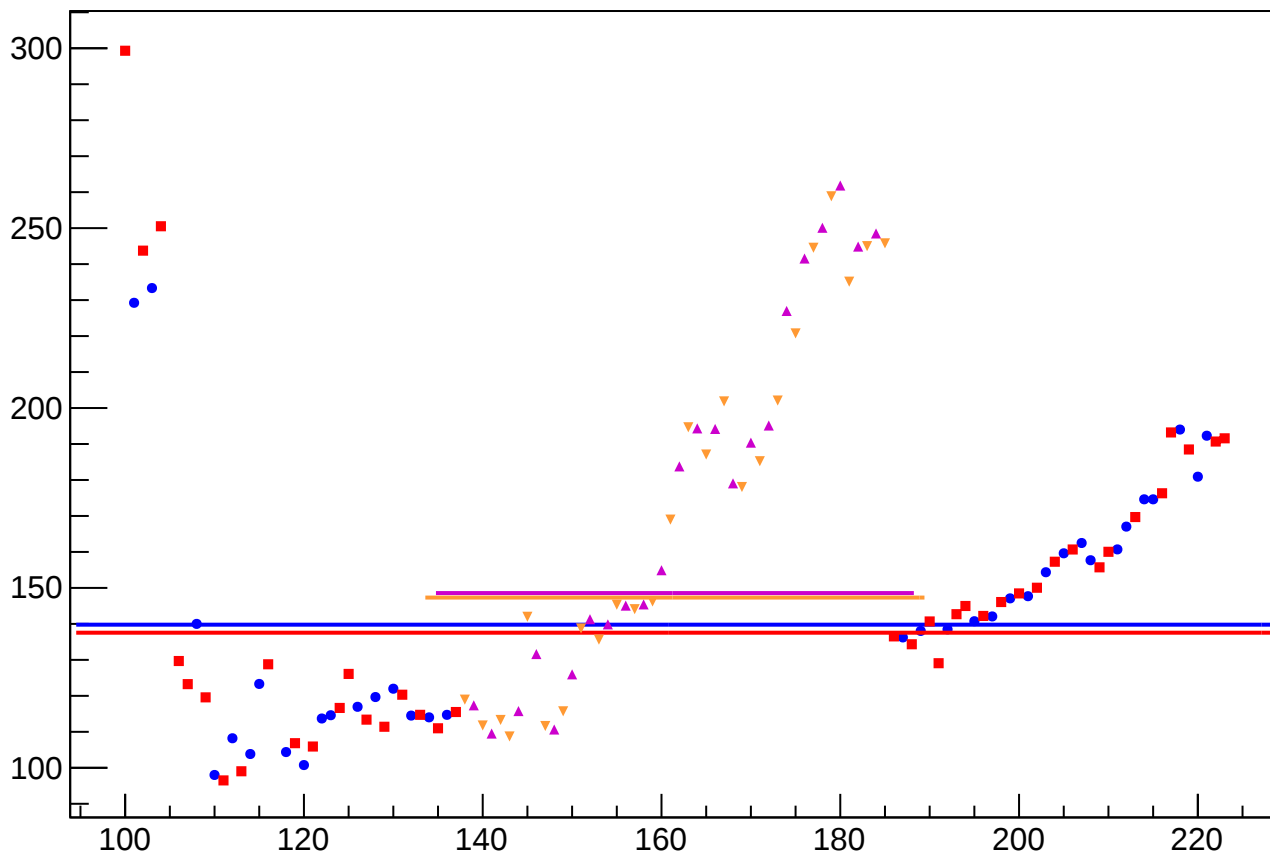
Right: 4899.234+/-22.494 χ^2/NDF : 194308.0/73

In: -642.962+/-24.449 χ^2/NDF : 153927.2/57

Out: 765.145+/-23.571 χ^2/NDF : 229513.0/63

All: 86.833+/-16.969 χ^2/NDF : 385159.4/121

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 139.782 ± 0.023 $\chi^2/\text{NDF}: 1654490.0/34$

Left Out: 147.317 ± 0.025 $\chi^2/\text{NDF}: 2511679.9/24$

Right Out: 137.551 ± 0.022 $\chi^2/\text{NDF}: 1765299.5/38$

Left In: 148.569 ± 0.026 $\chi^2/\text{NDF}: 2393185.0/22$

Left: 147.919 ± 0.018 $\chi^2/\text{NDF}: 4906034.9/47$

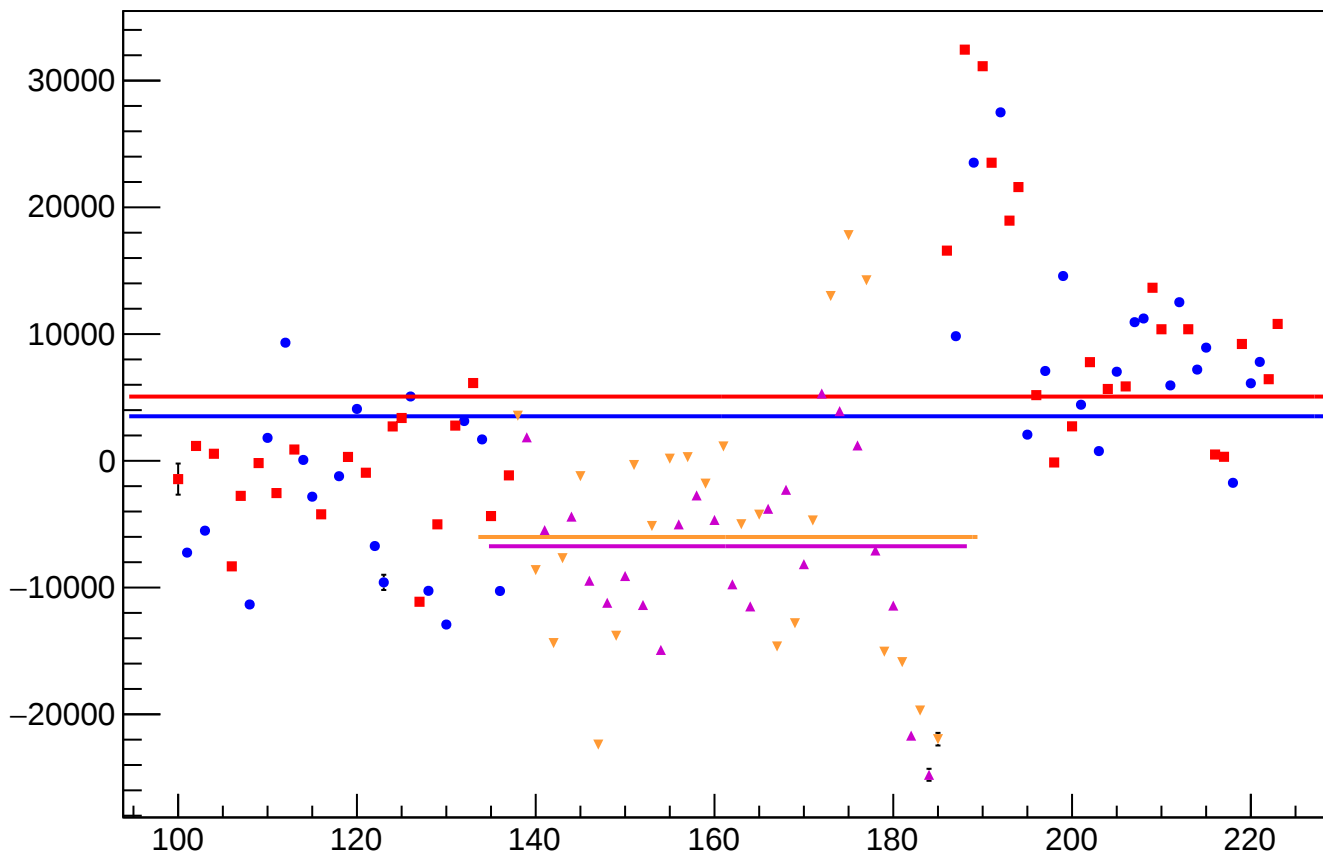
Right: 138.627 ± 0.016 $\chi^2/\text{NDF}: 3424701.9/73$

In: 143.562 ± 0.017 $\chi^2/\text{NDF}: 4110999.8/57$

Out: 141.766 ± 0.017 $\chi^2/\text{NDF}: 4361213.6/63$

All: 142.631 ± 0.012 $\chi^2/\text{NDF}: 8477808.4/123$

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3513.756+/-32.663

χ^2/NDF : 86125.8/34

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right: 4318.750+/-22.686

χ^2/NDF : 188420.1/73

Right Out: 5068.939+/-31.532

χ^2/NDF : 101120.8/38

In: -1063.147+/-24.304

χ^2/NDF : 152188.2/57

Out: 118.320+/-23.452

χ^2/NDF : 224136.7/63

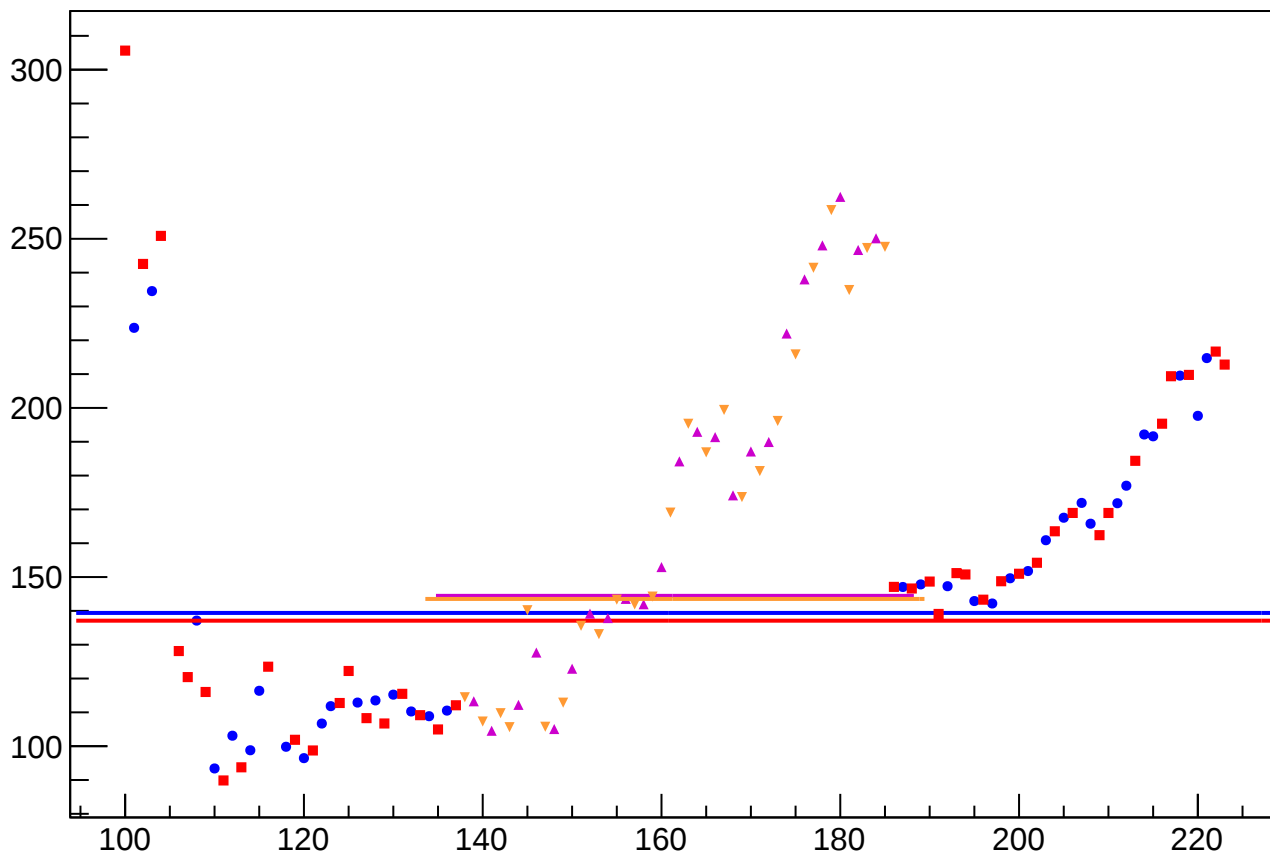
Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

All: -451.320+/-16.876

χ^2/NDF : 377548.6/12

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 139.393+/-0.023 χ^2/NDF : 2400161.7/34

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 137.102+/-0.022 χ^2/NDF : 2590511.1/38

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

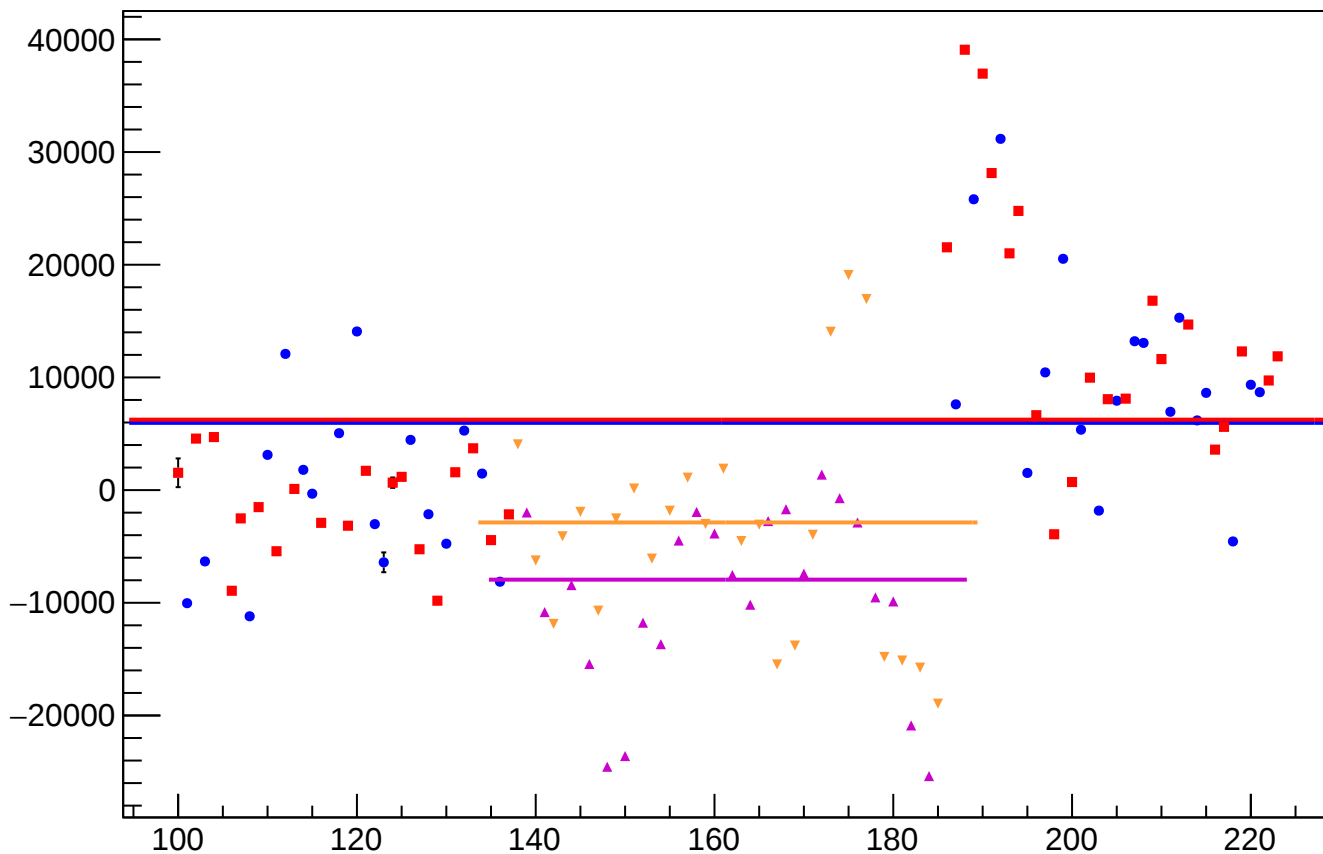
Right: 138.207+/-0.016 χ^2/NDF : 4995763.6/73

In: 141.645+/-0.017 χ^2/NDF : 5008397.7/57

Out: 139.975+/-0.017 χ^2/NDF : 5332444.2/63

All: 140.780+/-0.012 χ^2/NDF : 10345735.0/12

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5969.369+/-39.161 χ^2/NDF : 65427.3/34

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 6251.033+/-37.848 χ^2/NDF : 100865.5/38

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

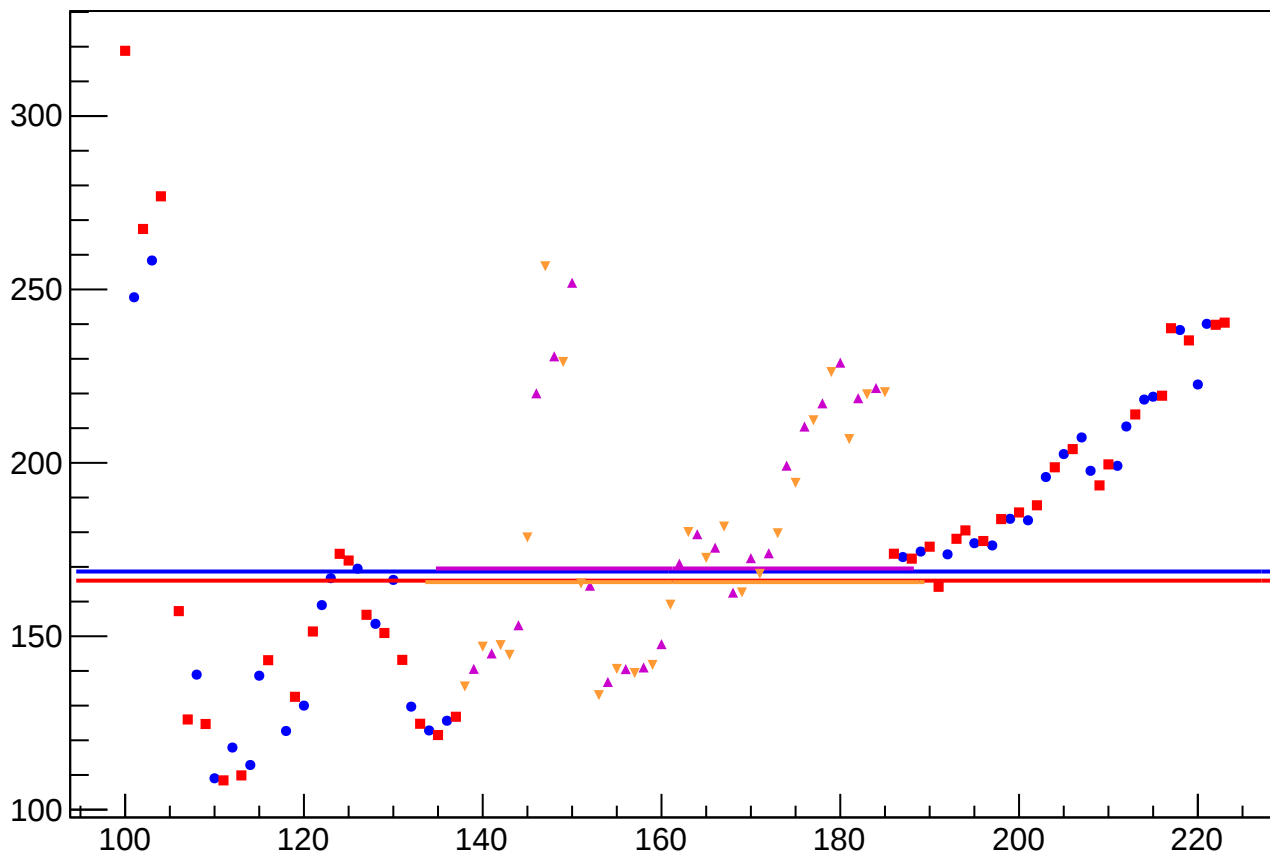
Right: 6115.001+/-27.215 χ^2/NDF : 166319.6/73

In: -548.096+/-28.555 χ^2/NDF : 148444.4/57

Out: 1882.928+/-27.322 χ^2/NDF : 175100.2/63

All: 721.016+/-19.741 χ^2/NDF : 327328.4/121

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 168.668 $\pm$ 0.028 χ^2 /NDF: 2069610.4/34

Left Out: 165.616 $\pm$ 0.028 χ^2 /NDF:1144779.3/24

Right Out: 166.035 $\pm$ 0.027 χ^2 /NDF: 2235234.2/38

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2 /NDF: 2313359.6/47

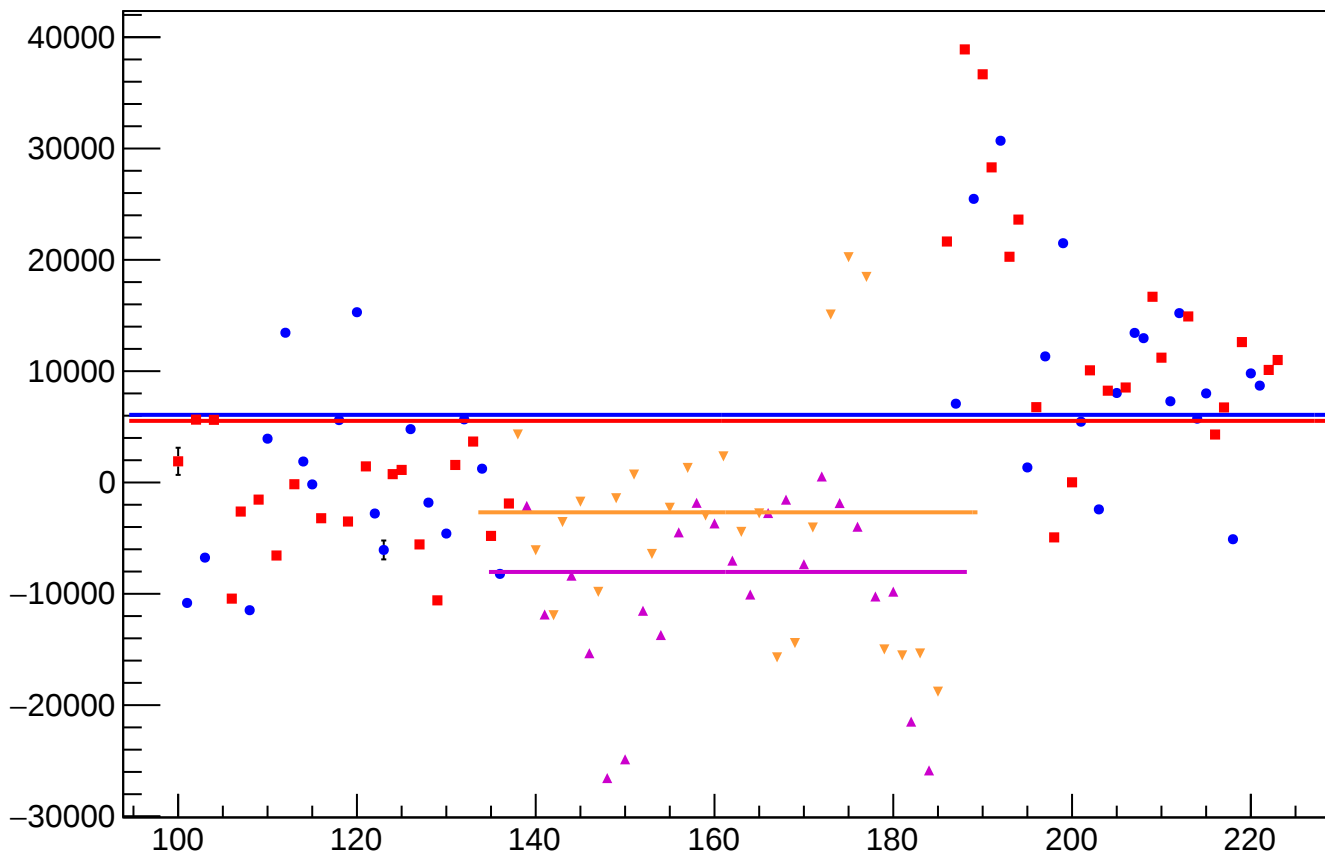
Right: 167.307 $\pm$ 0.019 χ^2 /NDF: 4309517.7/73

In: 169.077 $\pm$ 0.020 χ^2 /NDF:3229318.8/57

Out: 165.835 $\pm$ 0.019 χ^2 /NDF:3380130.7/63

All: 167.384 $\pm$ 0.014 χ^2 /NDF: 6622911.8/123

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6076.006+/-33.327

χ^2/NDF : 91558.3/34

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 5534.889+/-31.993

χ^2/NDF : 141327.7/38

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 5794.400+/-23.079

χ^2/NDF : 233023.3/73

In: -73.521+/-25.034

χ^2/NDF : 198959.4/57

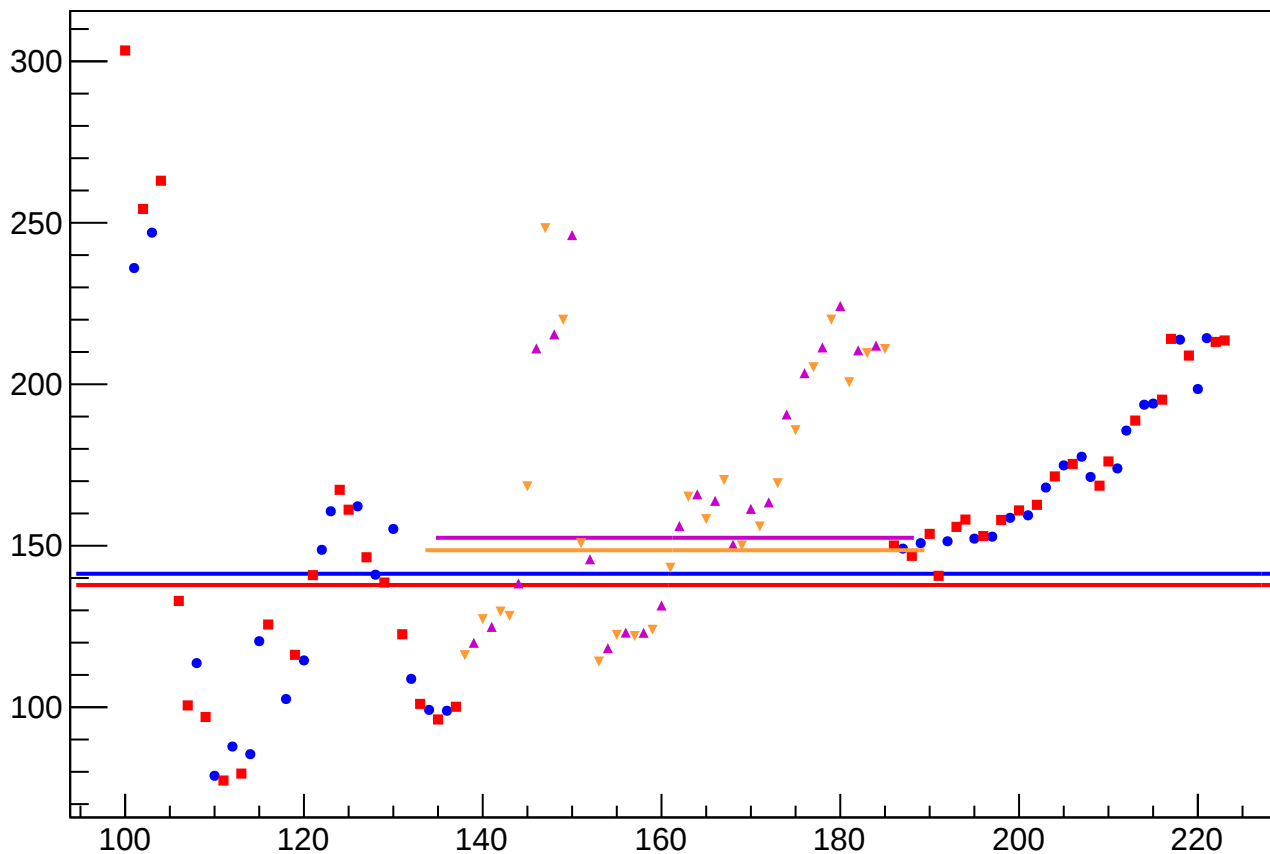
Out: 1883.229+/-23.844

χ^2/NDF : 227456.6/63

All: 952.457+/-17.266

χ^2/NDF : 429619.4/121

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 141.323+/-0.024 χ^2/NDF : 3051233.9/34

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 137.844+/-0.023 χ^2/NDF : 3397211.4/38

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

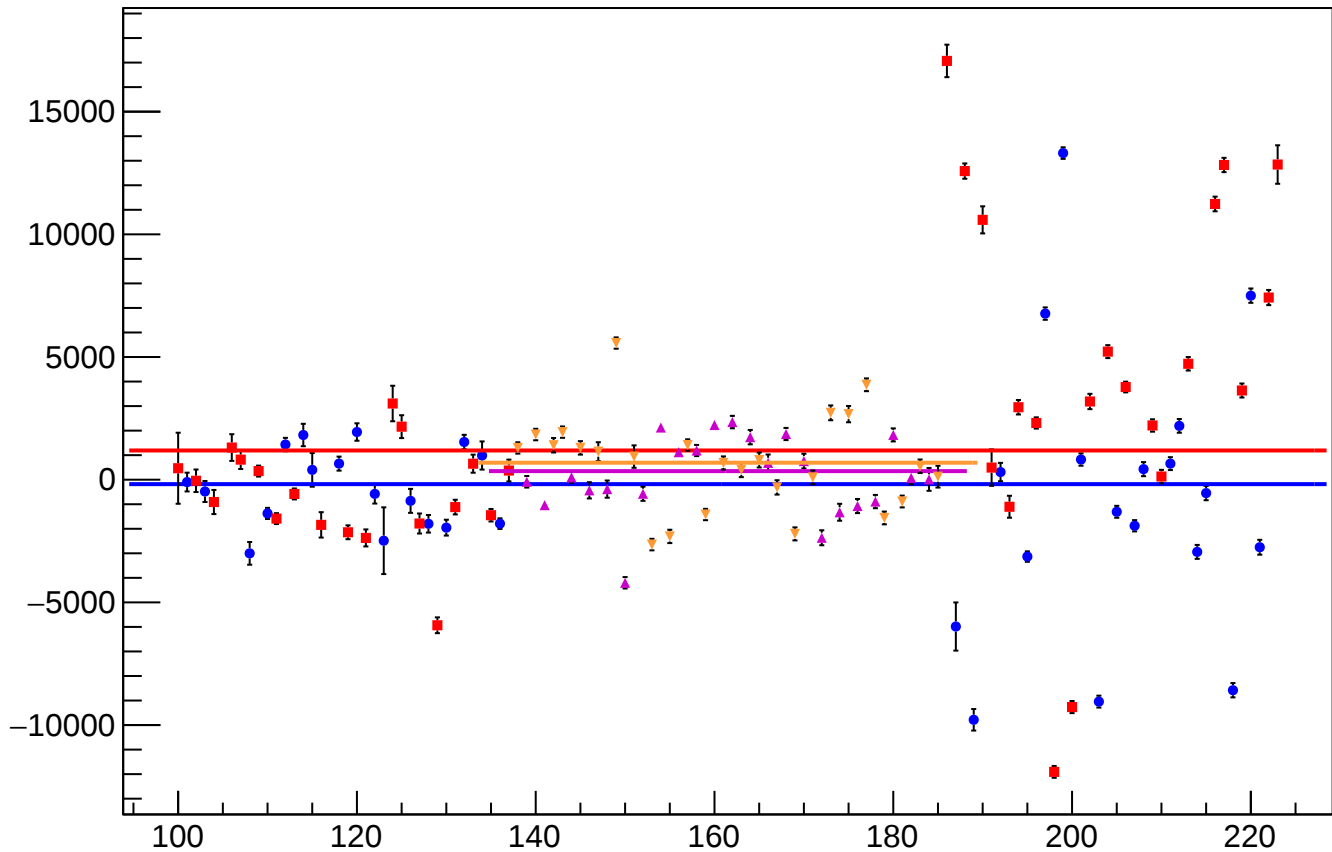
Right: 139.513+/-0.016 χ^2/NDF : 6459783.4/73

In: 146.177+/-0.018 χ^2/NDF :4840136.9/57

Out: 142.630+/-0.017 χ^2/NDF :5183317.0/63

All: 144.317+/-0.012 χ^2/NDF : 10044505.6/12

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -180.907 ± 51.486 $\chi^2/\text{NDF}: 8259.3/34$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 1190.956 ± 50.785 $\chi^2/\text{NDF}: 12318.9/38$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

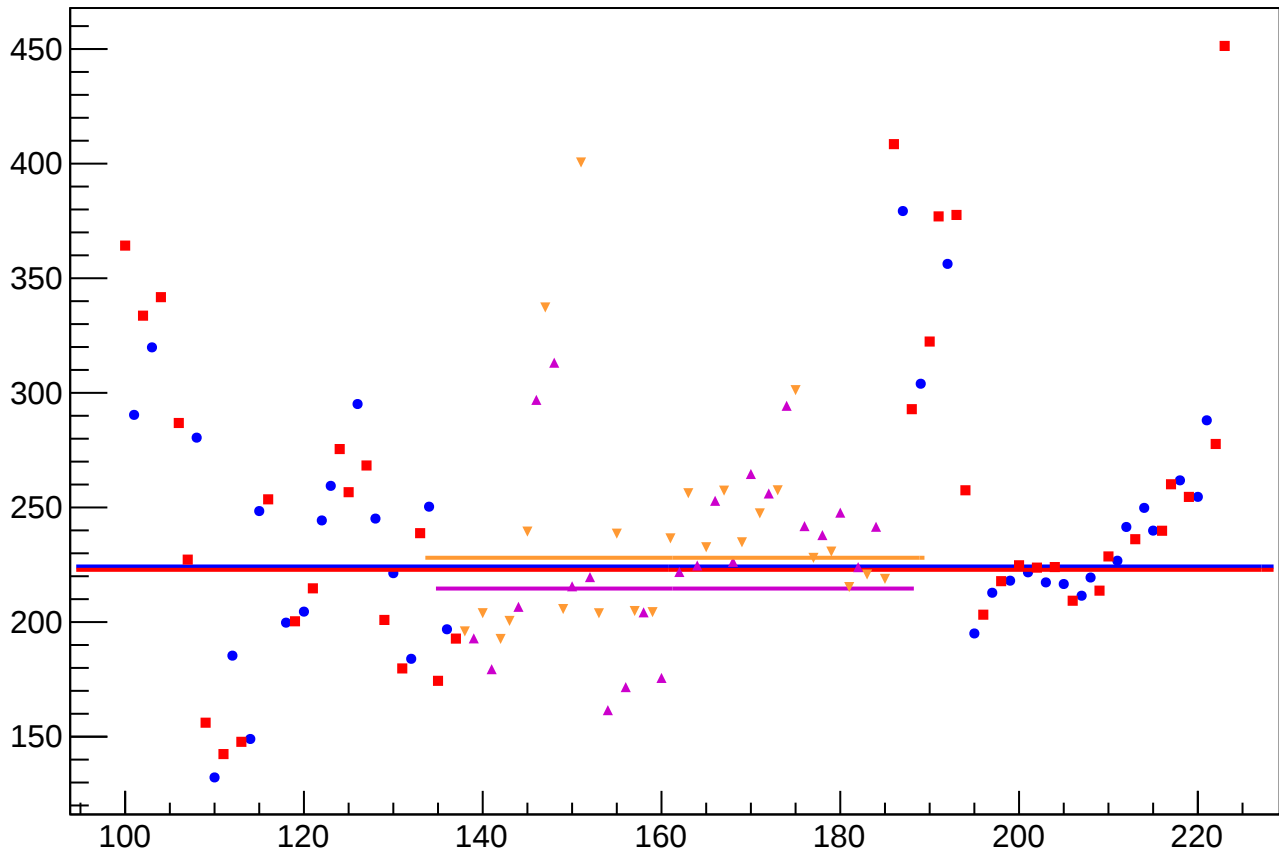
Right: 514.424 ± 36.156 $\chi^2/\text{NDF}: 20938.0/73$

In: 76.204 ± 36.962 $\chi^2/\text{NDF}: 9291.7/57$

Out: 958.628 ± 37.092 $\chi^2/\text{NDF}: 13785.8/63$

All: 515.860 ± 26.182 $\chi^2/\text{NDF}: 23361.4/121$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 224.253 ± 0.036 $\chi^2/\text{NDF}: 1358661.2/34$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 222.797 ± 0.036 $\chi^2/\text{NDF}: 2156539.9/38$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

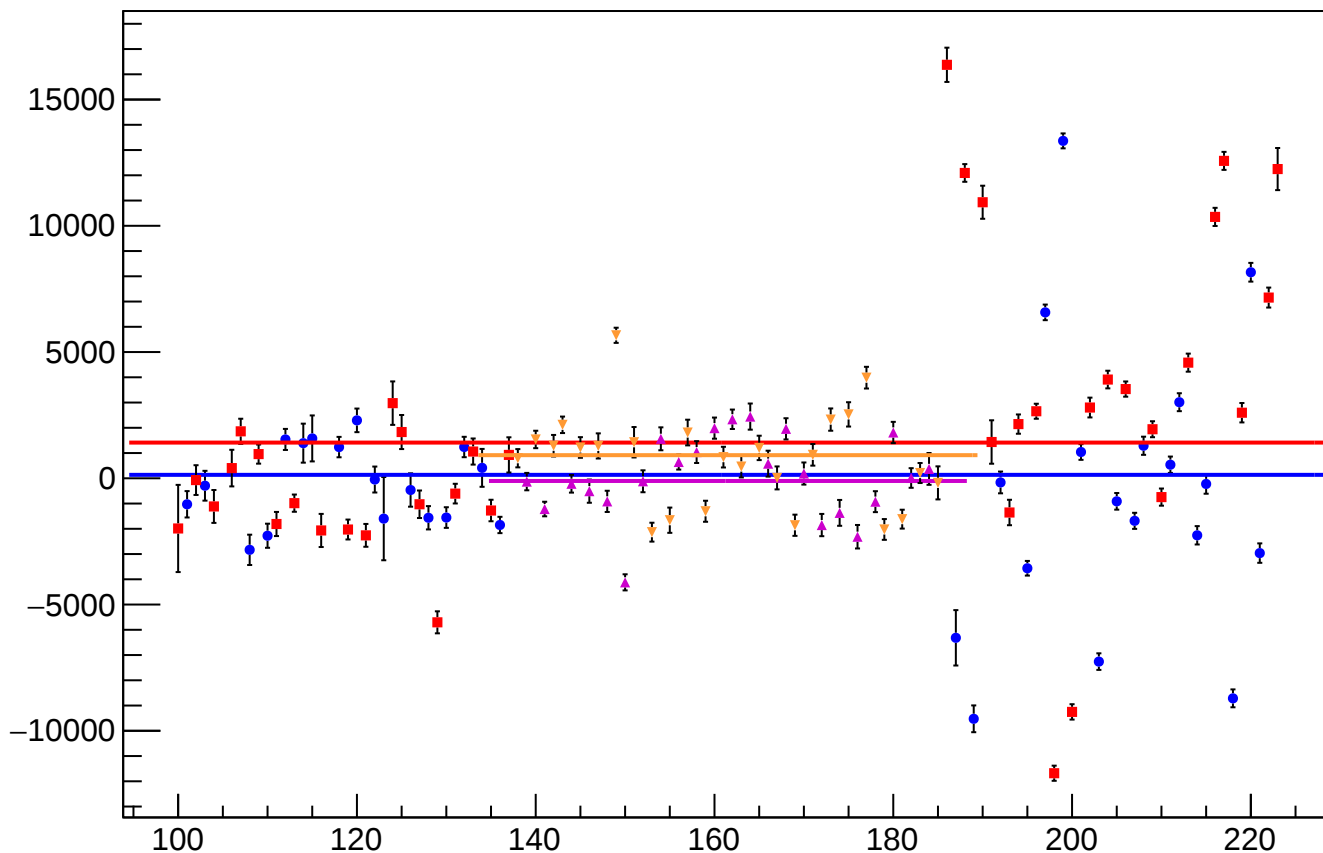
Right: 223.515 ± 0.026 $\chi^2/\text{NDF}: 3516012.0/73$

In: 219.588 ± 0.026 $\chi^2/\text{NDF}: 2418224.9/57$

Out: 225.253 ± 0.026 $\chi^2/\text{NDF}: 2992909.1/63$

All: 222.410 ± 0.019 $\chi^2/\text{NDF}: 5434540.7/123$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 136.493+/-68.771 χ^2/NDF : 4978.2/34

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 1414.301+/-68.101 χ^2/NDF : 7687.3/38

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

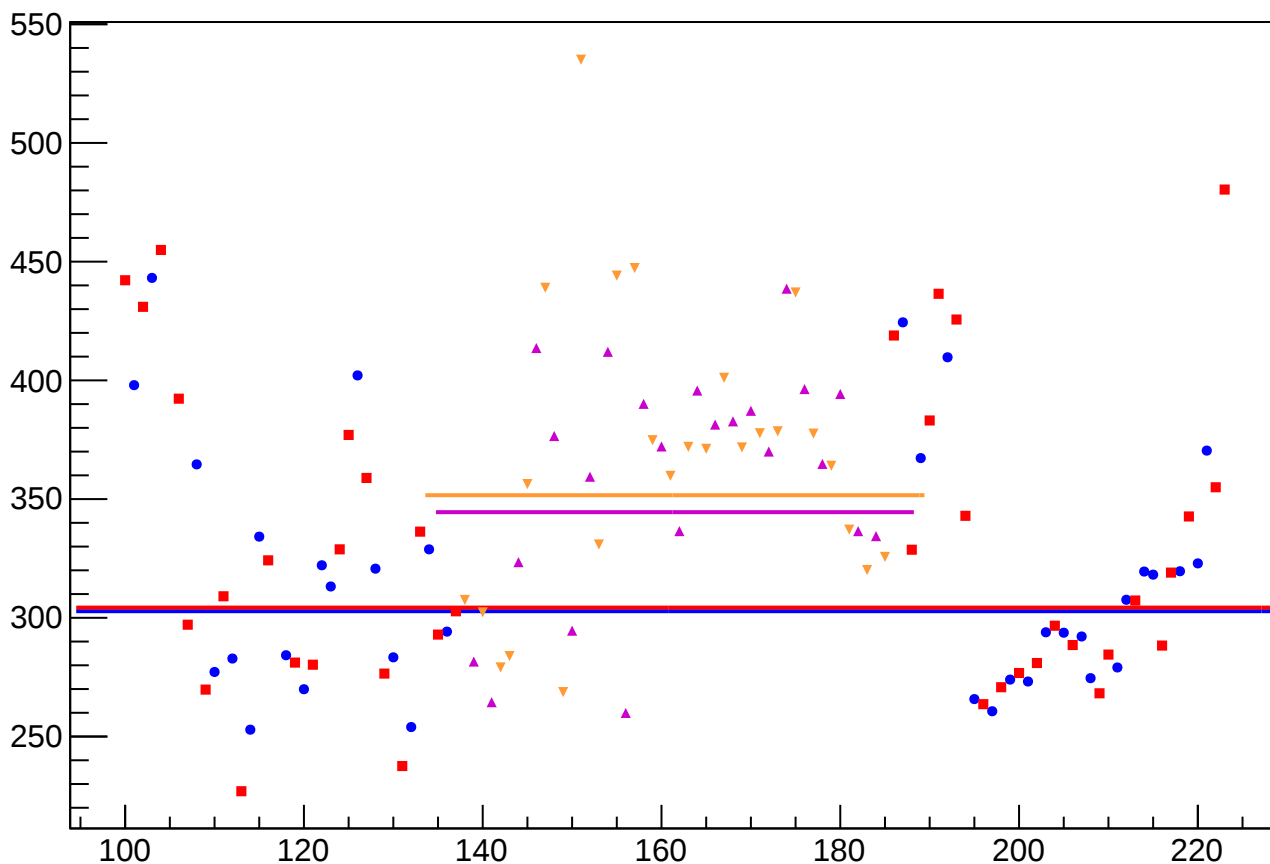
Right: 781.650+/-48.390 χ^2/NDF : 12839.8/73

In: 39.679+/-53.312 χ^2/NDF : 5373.5/57

Out: 1214.945+/-52.749 χ^2/NDF : 8327.0/63

All: 633.549+/-37.496 χ^2/NDF : 13946.1/121

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 302.789 $\pm$ 0.049 χ^2 /NDF: 717043.0/34

Left Out: 351.633 $\pm$ 0.059 χ^2 /NDF: 907849.3/24

Right Out: 304.300 $\pm$ 0.048 χ^2 /NDF: 1050936.0/38

Left In: 344.491 $\pm$ 0.060 χ^2 /NDF: 768885.4/22

Left: 348.104 $\pm$ 0.042 χ^2 /NDF: 1683981.7/47

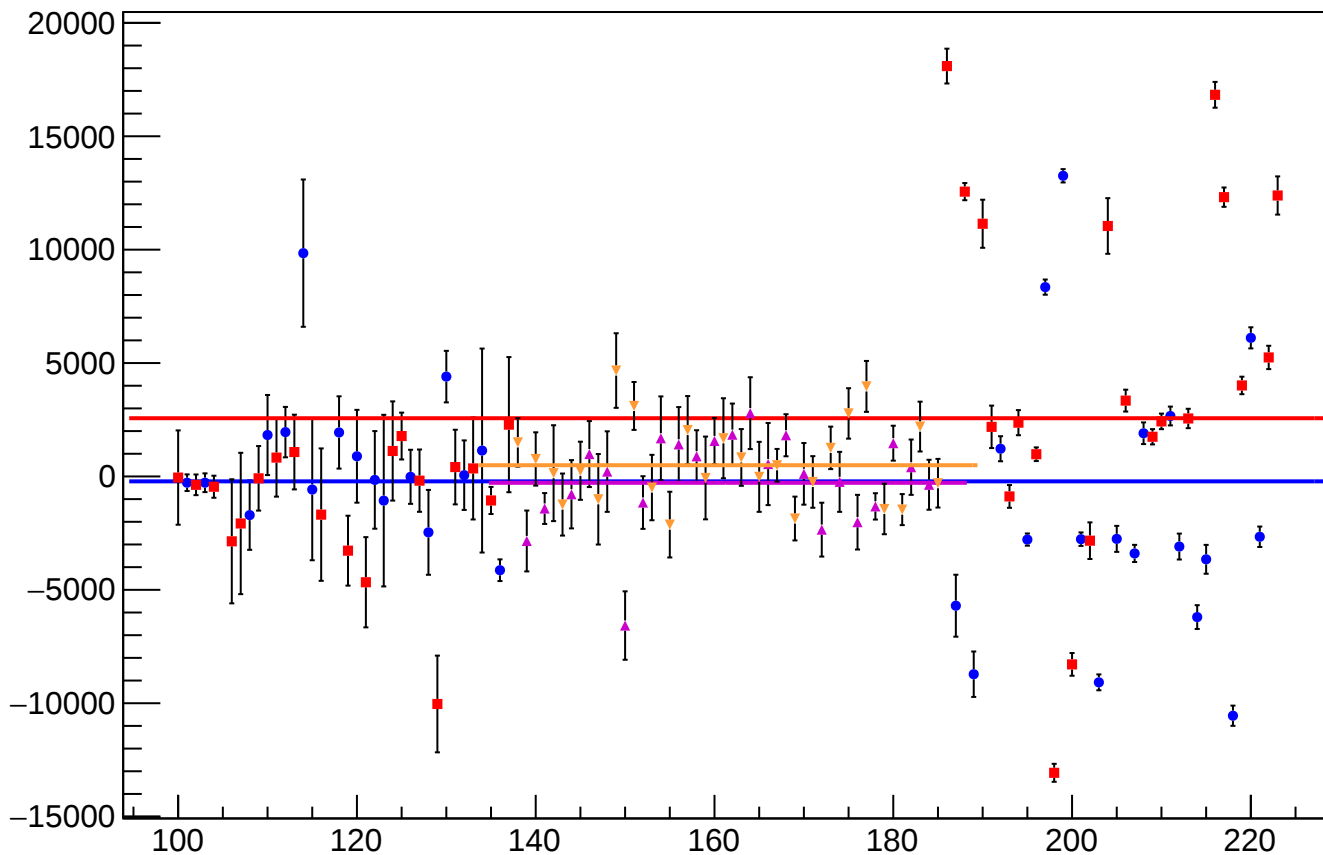
Right: 303.552 $\pm$ 0.034 χ^2 /NDF: 1768466.8/73

In: 319.430 $\pm$ 0.038 χ^2 /NDF: 1779402.0/57

Out: 323.235 $\pm$ 0.037 χ^2 /NDF: 2345291.4/63

All: 321.353 $\pm$ 0.027 χ^2 /NDF: 4129842.7/121

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -216.378+/-89.379 χ^2/NDF : 4851.7/34

Left Out: 495.014+/-231.058 χ^2/NDF : 56.2/24

Right Out: 2567.377+/-97.121 χ^2/NDF : 4905.3/38

Left In: -280.692+/-232.048 χ^2/NDF : 57.2/22

Left: 108.818+/-163.732 χ^2/NDF : 119.1/47

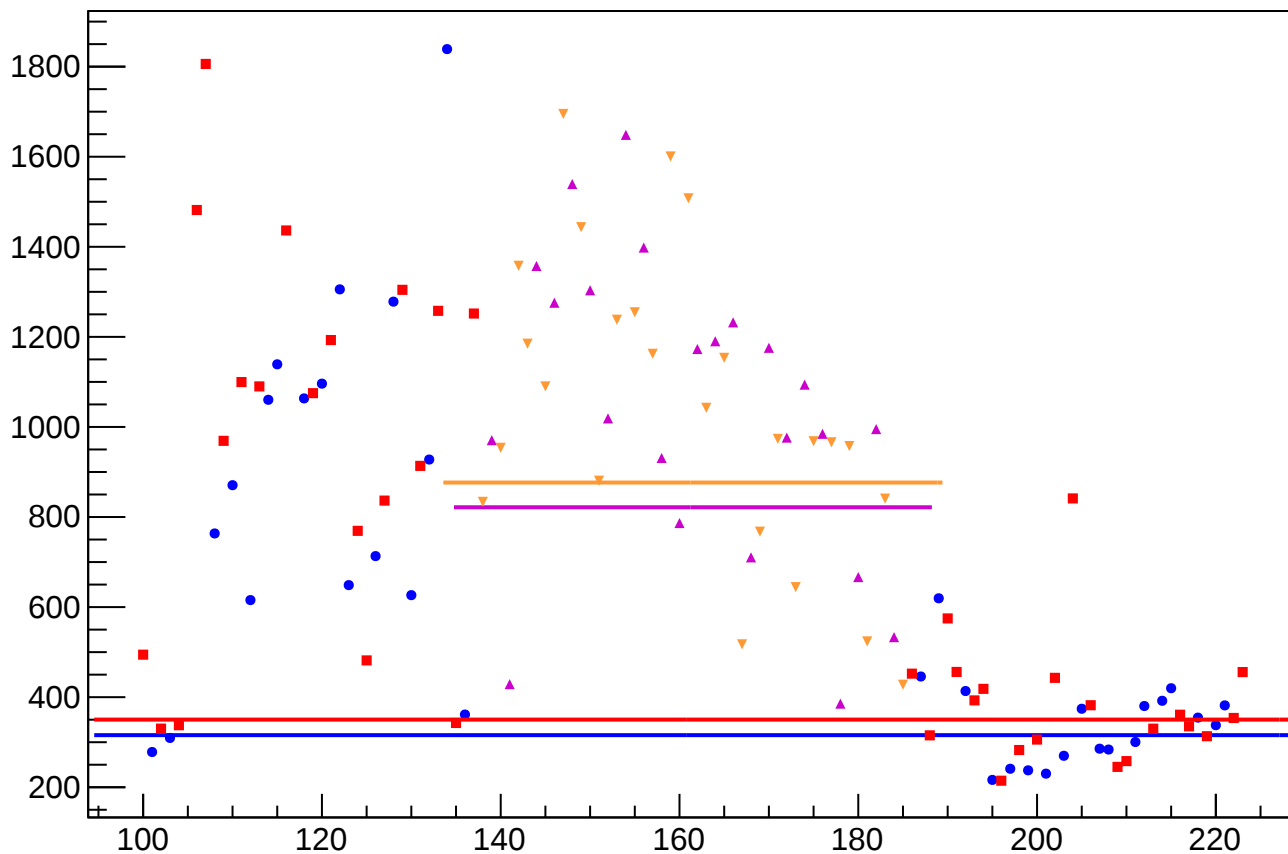
Right: 1060.133+/-65.767 χ^2/NDF : 10201.8/73

In: -224.687+/-83.406 χ^2/NDF : 4909.0/57

Out: 2256.210+/-89.533 χ^2/NDF : 5029.9/63

All: 927.967+/-61.028 χ^2/NDF : 10349.9/121

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 315.680 ± 0.063 $\chi^2/\text{NDF}: 4626726.1/34$

Left Out: 876.560 ± 0.163 $\chi^2/\text{NDF}: 3434698.7/24$

Right Out: 350.217 ± 0.069 $\chi^2/\text{NDF}: 5976193.4/38$

Left In: 821.657 ± 0.164 $\chi^2/\text{NDF}: 4443094.2/22$

Left: 849.226 ± 0.116 $\chi^2/\text{NDF}: 7934012.4/47$

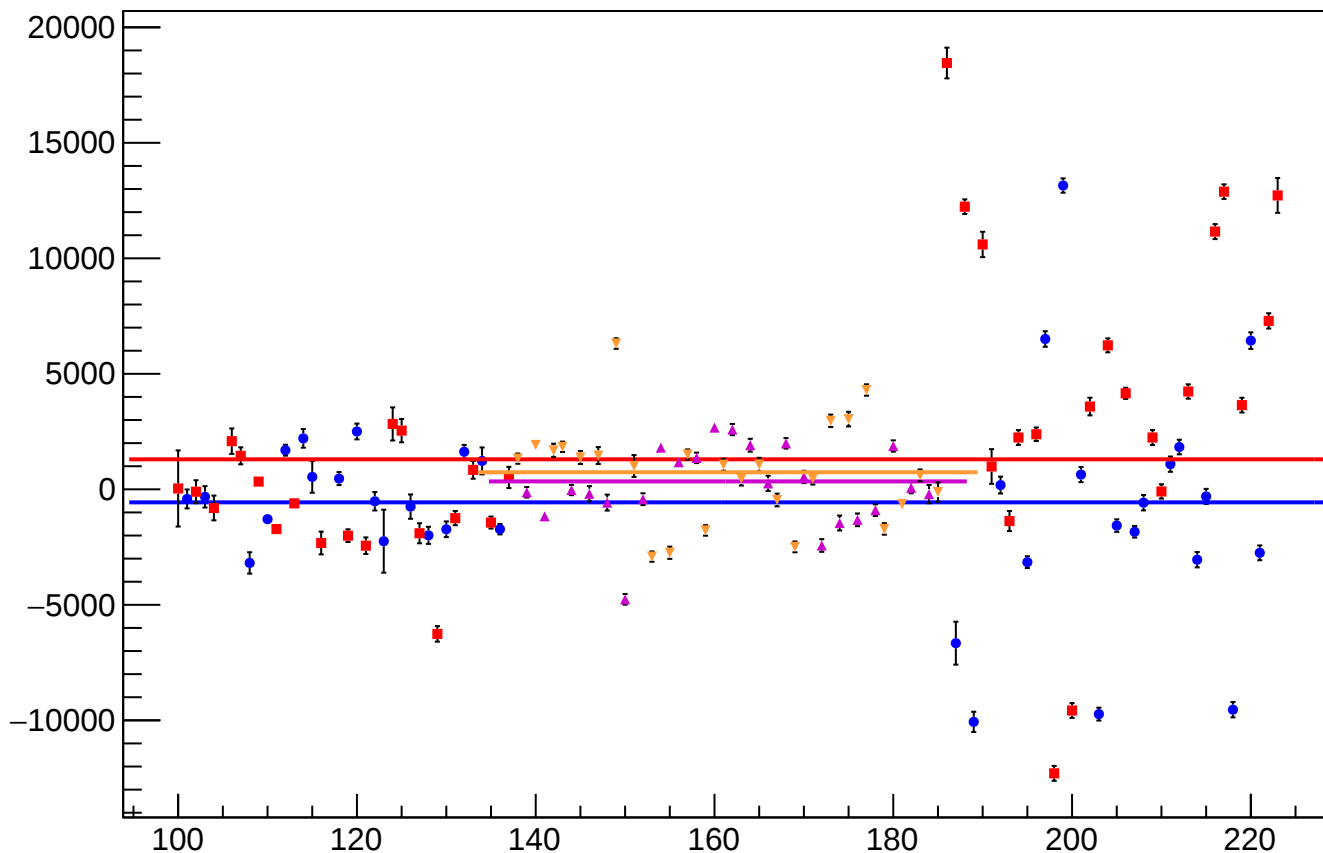
Right: 331.517 ± 0.047 $\chi^2/\text{NDF}: 10739854.2/73$

In: 381.049 ± 0.059 $\chi^2/\text{NDF}: 17350387.1/57$

Out: 429.248 ± 0.063 $\chi^2/\text{NDF}: 18230871.8/63$

All: 403.443 ± 0.043 $\chi^2/\text{NDF}: 35891575.4/12$

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -563.915 ± 55.915 $\chi^2/\text{NDF}: 5846.9/34$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 1299.061 ± 53.779 $\chi^2/\text{NDF}: 9995.1/38$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

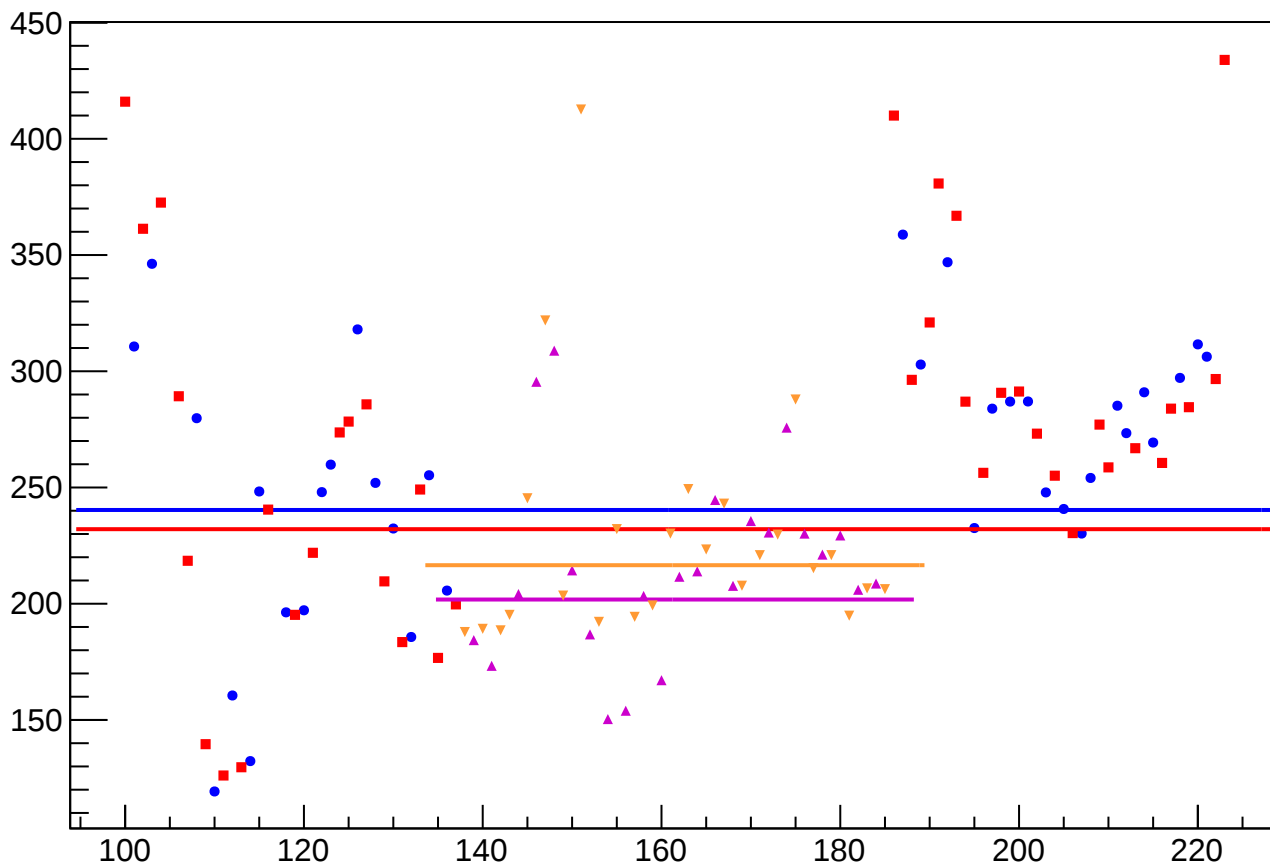
Right: 403.845 ± 38.761 $\chi^2/\text{NDF}: 16418.7/73$

In: -60.660 ± 37.290 $\chi^2/\text{NDF}: 7247.7/57$

Out: 1007.642 ± 37.251 $\chi^2/\text{NDF}: 11986.8/63$

All: 474.045 ± 26.354 $\chi^2/\text{NDF}: 19645.3/121$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 240.329 $\pm$ 0.040 χ^2/NDF : 2208592.1/34

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF :886214.1/24

Right Out: 232.067 $\pm$ 0.038 χ^2/NDF : 3334001.4/38

Left In: 201.805 $\pm$ 0.035 χ^2/NDF :1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2/NDF : 2057801.5/47

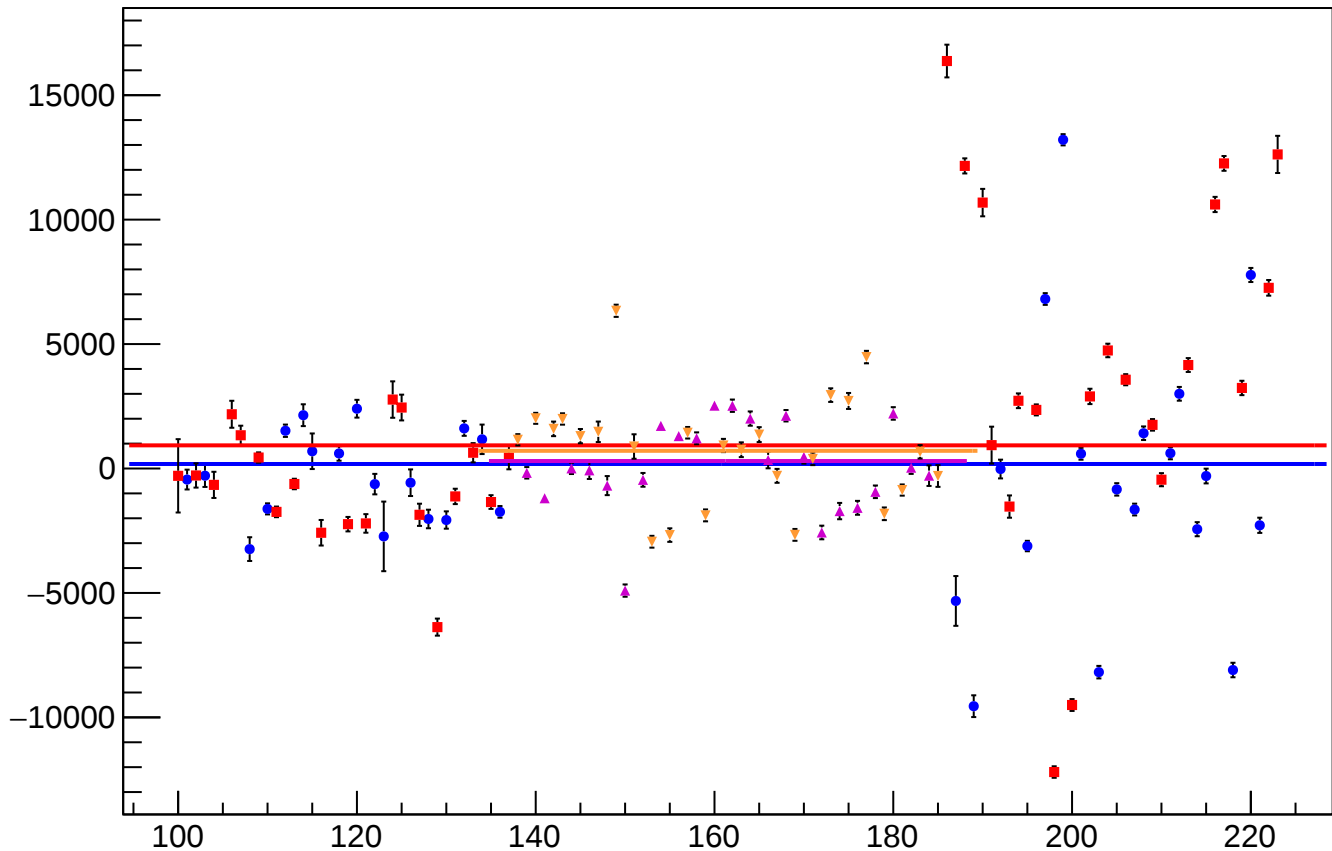
Right: 236.037 $\pm$ 0.027 χ^2/NDF : 5565277.1/73

In: 218.939 $\pm$ 0.026 χ^2/NDF :3822956.1/57

Out: 224.008 $\pm$ 0.026 χ^2/NDF :4306562.9/63

All: 221.476 $\pm$ 0.019 χ^2/NDF : 8148012.1/123

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 181.169 ± 51.362 $\chi^2/\text{NDF}: 8276.7/34$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 930.236 ± 50.653 $\chi^2/\text{NDF}: 12284.6/38$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

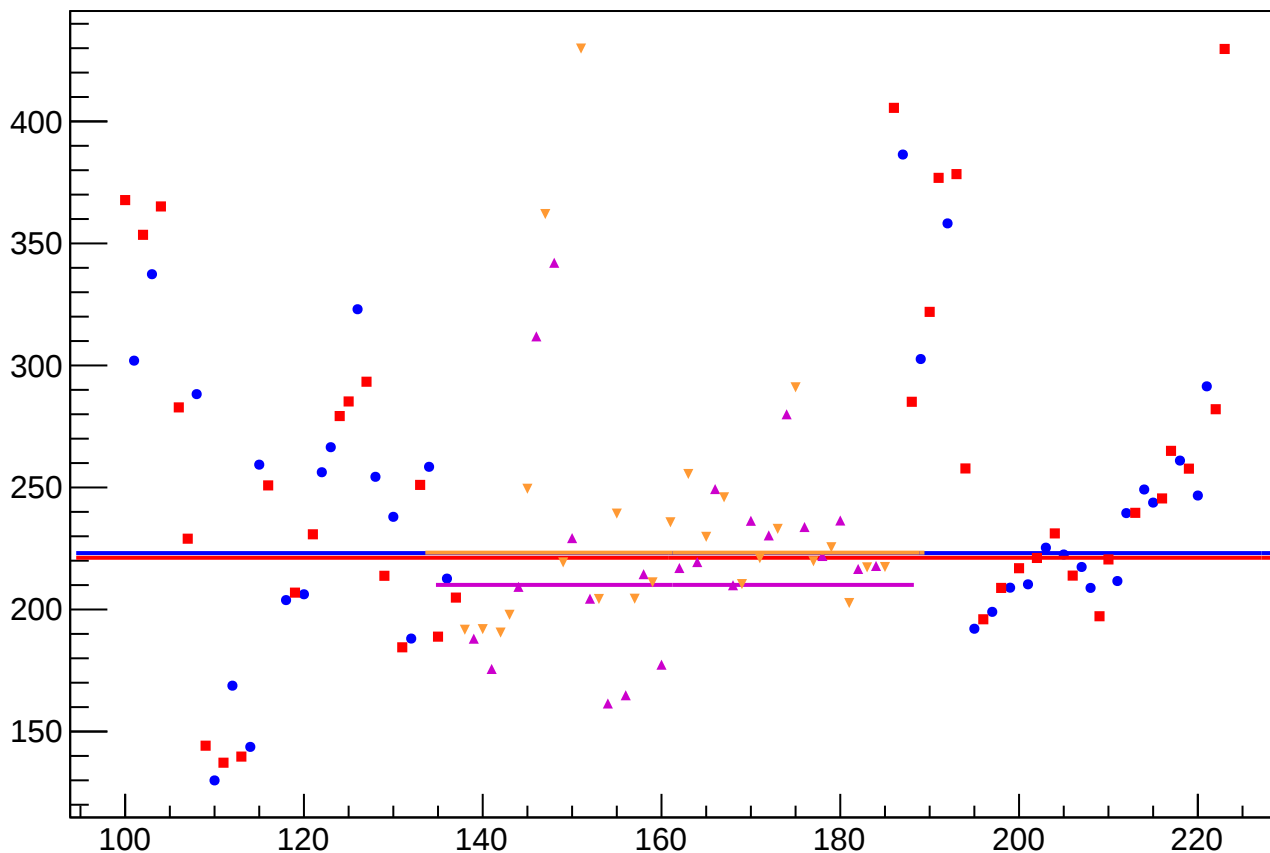
Right: 560.904 ± 36.065 $\chi^2/\text{NDF}: 20669.1/73$

In: 240.124 ± 36.536 $\chi^2/\text{NDF}: 9487.9/57$

Out: 826.166 ± 36.699 $\chi^2/\text{NDF}: 14128.8/63$

All: 531.840 ± 25.892 $\chi^2/\text{NDF}: 23744.8/121$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 223.112+/-0.036 χ^2/NDF : 1561558.1/34

Left Out: 223.296+/-0.038 χ^2/NDF : 922768.4/24

Right Out: 221.204+/-0.036 χ^2/NDF : 2468042.7/38

Left In: 210.080+/-0.037 χ^2/NDF : 1015274.5/22

Left: 216.530+/-0.026 χ^2/NDF : 2001132.1/47

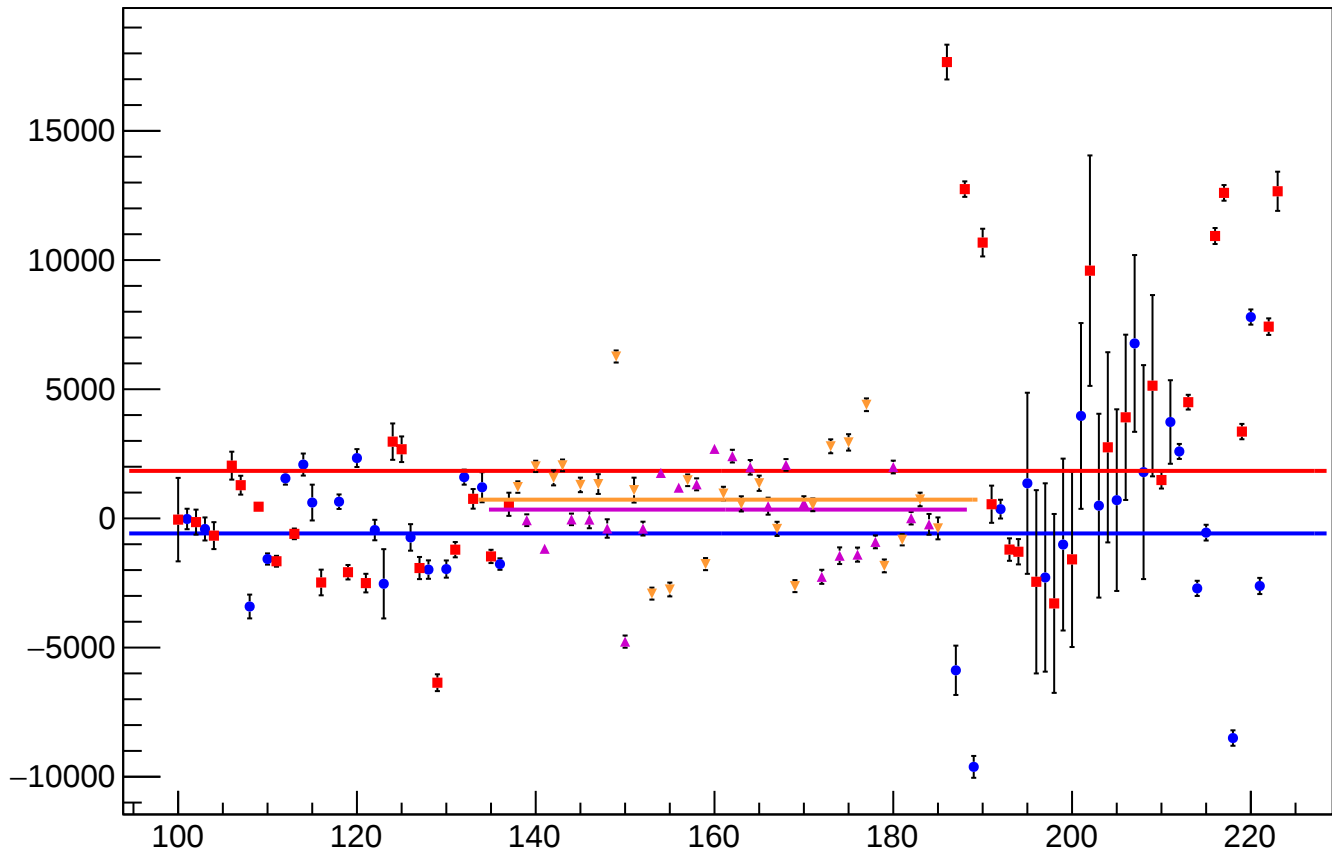
Right: 222.145+/-0.026 χ^2/NDF : 4031000.9/73

In: 216.675+/-0.026 χ^2/NDF : 2640442.0/57

Out: 222.198+/-0.026 χ^2/NDF : 3392432.6/63

All: 219.424+/-0.018 χ^2/NDF : 6055625.6/123

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -581.993 ± 66.298 $\chi^2/\text{NDF}: 2629.6/34$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: 1839.294 ± 60.881 $\chi^2/\text{NDF}: 6920.6/38$

Left In: 340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

Left: 528.110 ± 36.393 $\chi^2/\text{NDF}: 3142.6/47$

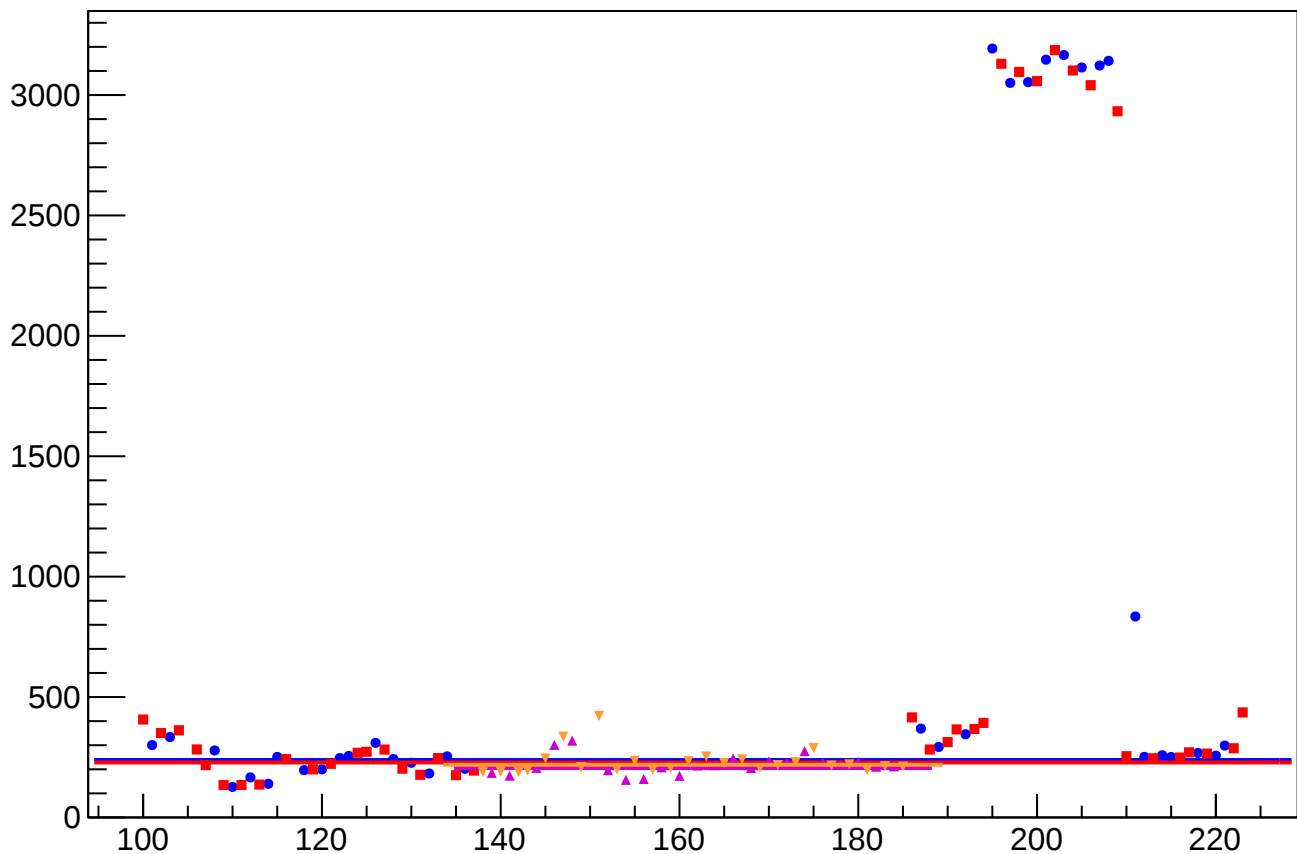
Right: 731.605 ± 44.842 $\chi^2/\text{NDF}: 10273.8/73$

In: -0.773 ± 40.325 $\chi^2/\text{NDF}: 3953.4/57$

Out: 1197.175 ± 39.610 $\chi^2/\text{NDF}: 9026.2/63$

All: 608.917 ± 28.258 $\chi^2/\text{NDF}: 13428.7/121$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 238.446 $\pm$ 0.047 χ^2 /NDF: 12287165.6/34

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF:896914.5/24

Right Out: 228.412 $\pm$ 0.043 χ^2 /NDF: 11827280.0/38

Left In: 205.249 $\pm$ 0.036 χ^2 /NDF:997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2 /NDF: 1963037.5/47

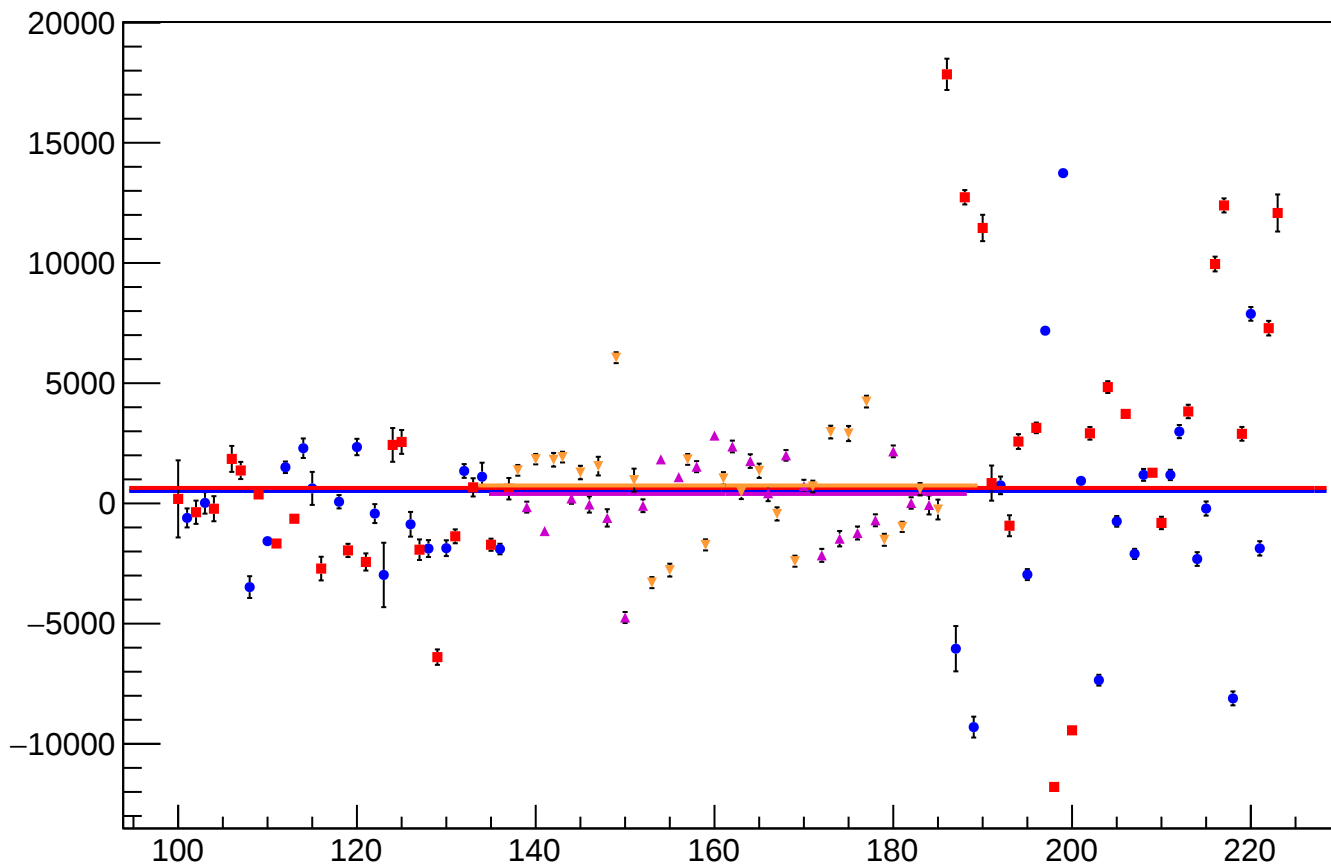
Right: 233.002 $\pm$ 0.032 χ^2 /NDF: 24139299.7/73

In: 217.530 $\pm$ 0.029 χ^2 /NDF:13600266.9/57

Out: 222.850 $\pm$ 0.028 χ^2 /NDF:12753132.6/63

All: 220.238 $\pm$ 0.020 χ^2 /NDF: 26371118.2/12

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 517.781+/-48.268 χ^2/NDF : 10266.8/34

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 644.349+/-47.713 χ^2/NDF : 14190.5/38

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

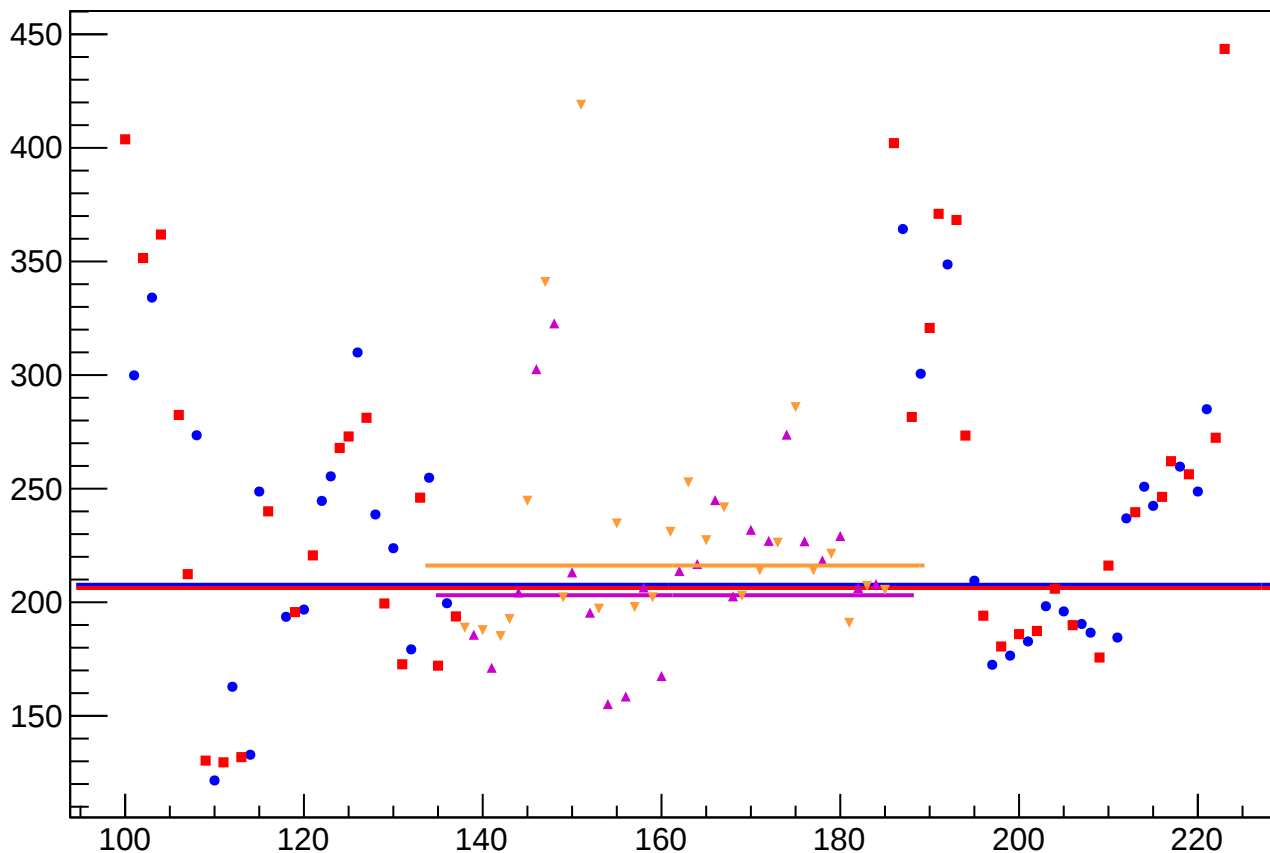
Right: 581.797+/-33.933 χ^2/NDF : 24460.8/73

In: 458.637+/-34.831 χ^2/NDF :11506.3/57

Out: 691.397+/-35.029 χ^2/NDF :16134.7/63

All: 574.355+/-24.699 χ^2/NDF : 27663.2/121

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 207.695 ± 0.034 $\chi^2/\text{NDF}: 1935733.9/34$

Left Out: 216.178 ± 0.036 $\chi^2/\text{NDF}: 946050.8/24$

Right Out: 206.289 ± 0.034 $\chi^2/\text{NDF}: 3008731.1/38$

Left In: 203.101 ± 0.036 $\chi^2/\text{NDF}: 1038013.0/22$

Left: 209.475 ± 0.025 $\chi^2/\text{NDF}: 2049926.5/47$

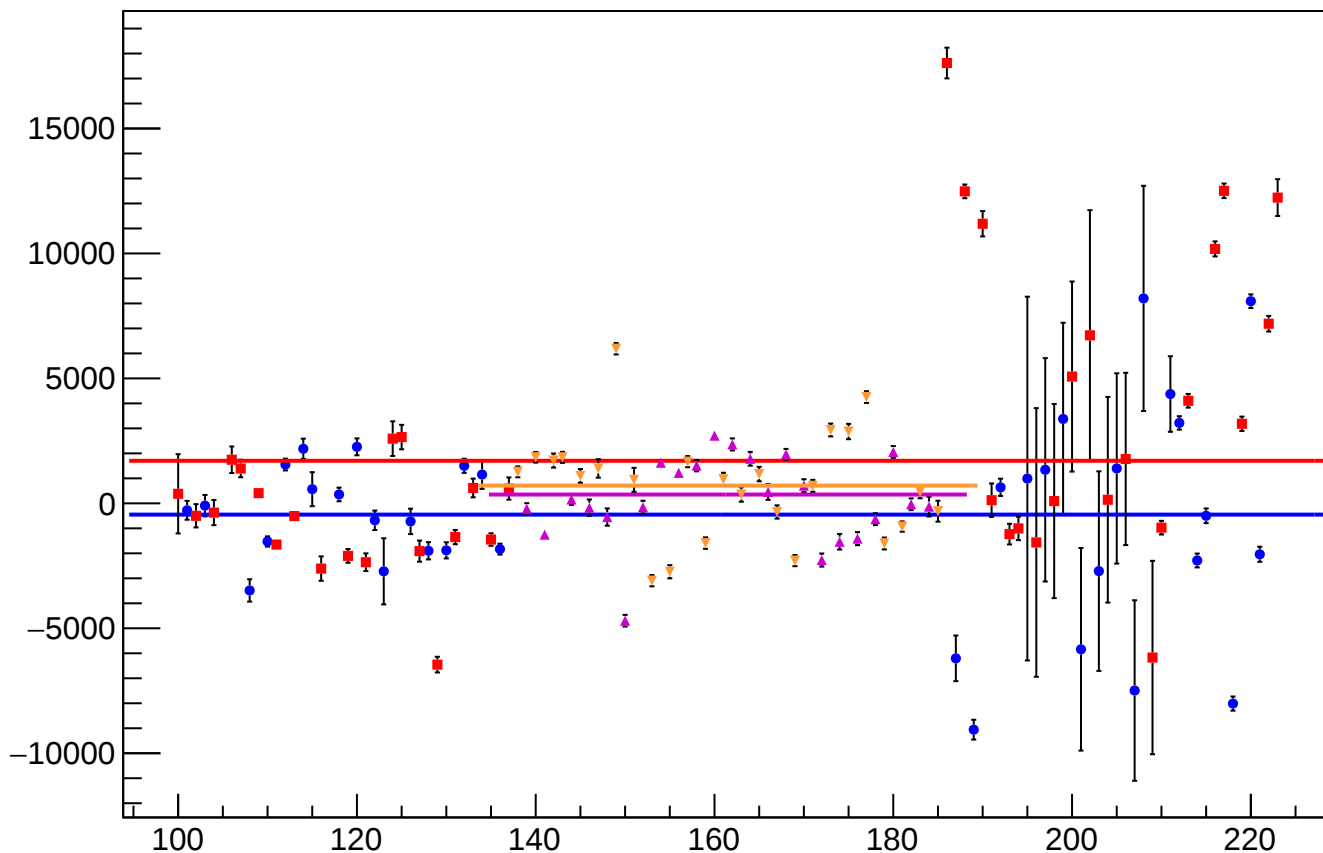
Right: 206.983 ± 0.024 $\chi^2/\text{NDF}: 4945323.3/73$

In: 205.493 ± 0.025 $\chi^2/\text{NDF}: 2982429.3/57$

Out: 210.848 ± 0.025 $\chi^2/\text{NDF}: 3994390.4/63$

All: 208.155 ± 0.017 $\chi^2/\text{NDF}: 7000320.0/123$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -450.445 ± 63.654 $\chi^2/\text{NDF}: 2882.9/34$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 1704.076 ± 58.141 $\chi^2/\text{NDF}: 7486.3/38$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

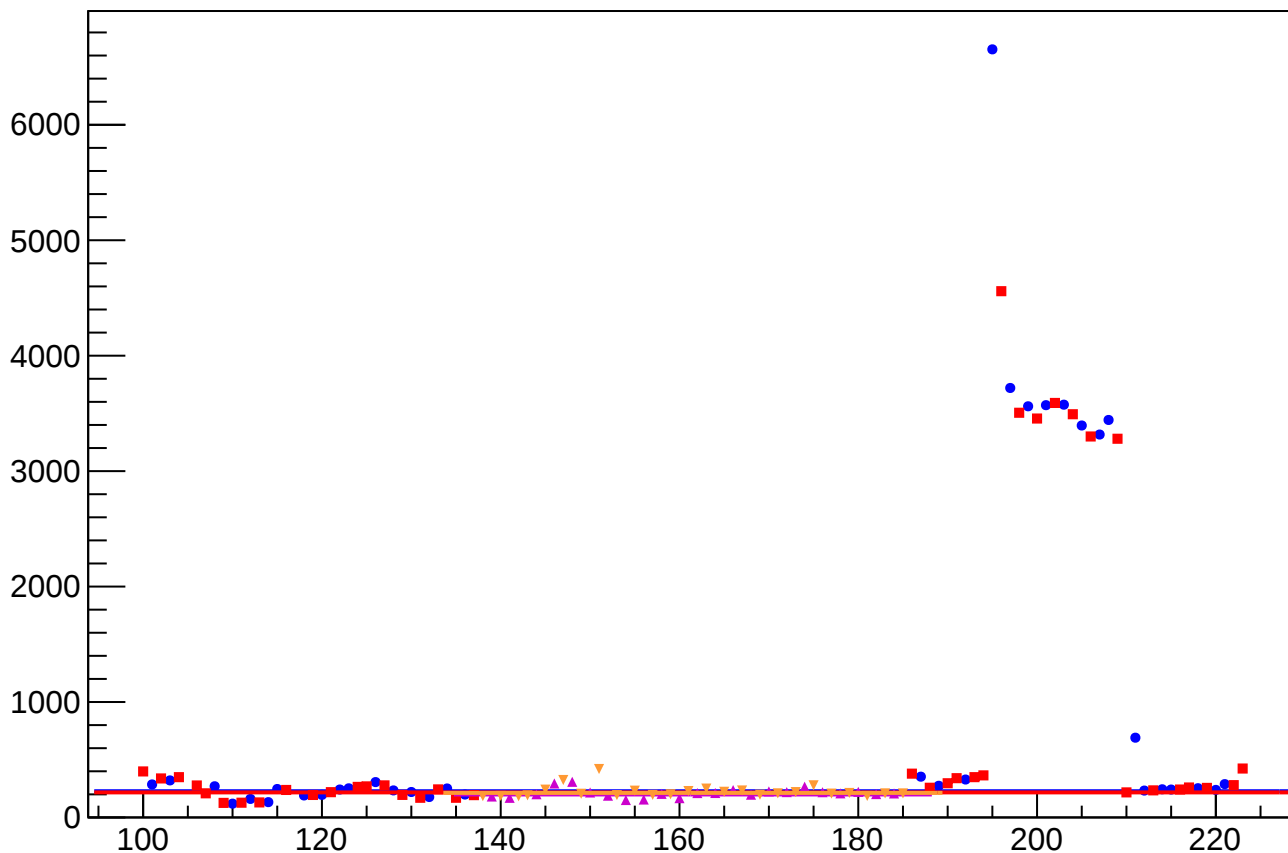
Right: 724.139 ± 42.929 $\chi^2/\text{NDF}: 10993.8/73$

In: 51.278 ± 38.985 $\chi^2/\text{NDF}: 4215.4/57$

Out: 1140.013 ± 38.234 $\chi^2/\text{NDF}: 9584.4/63$

All: 606.236 ± 27.297 $\chi^2/\text{NDF}: 14197.4/121$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 227.277+/-0.045 χ^2/NDF : 12646734.3/34

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 217.062+/-0.041 χ^2/NDF : 12103381.1/38

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

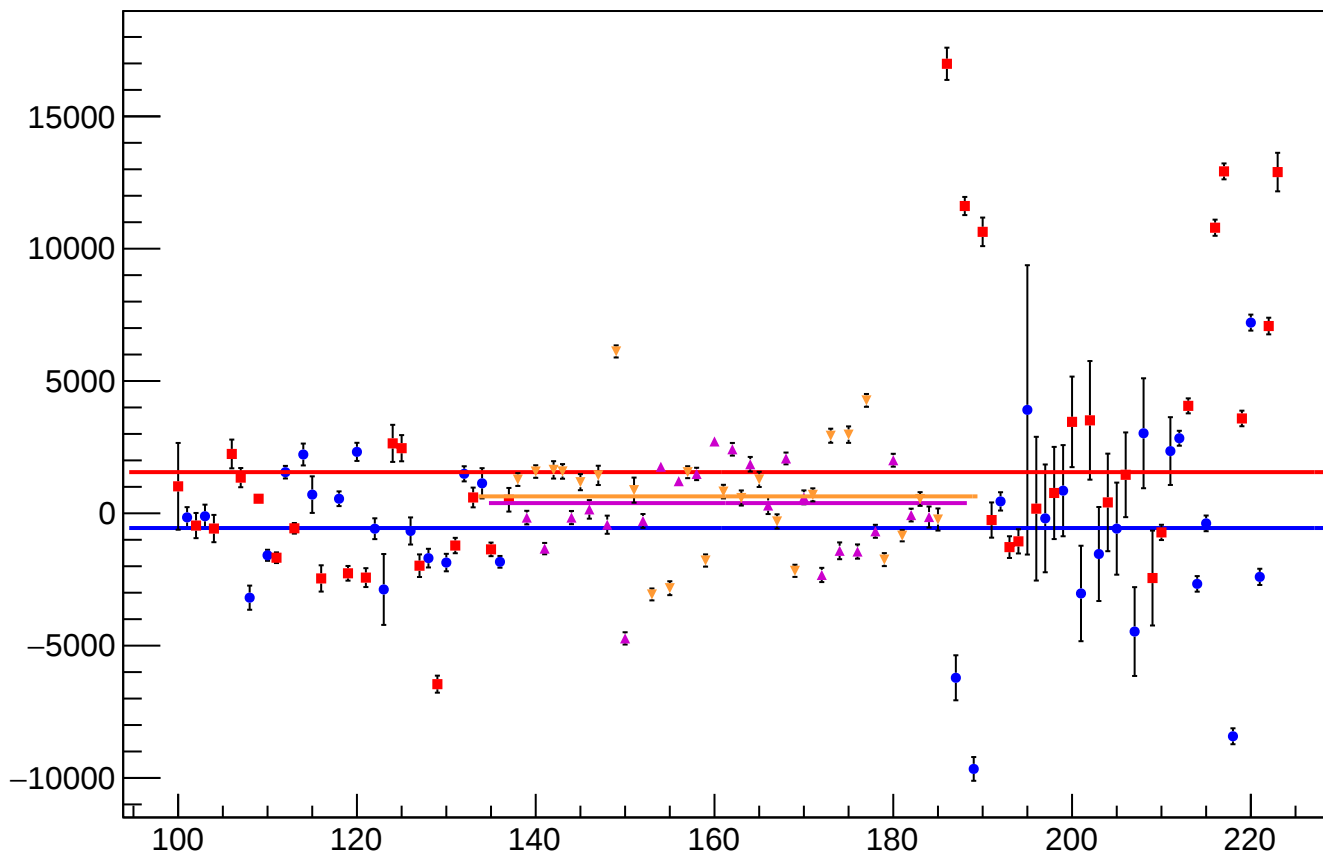
Right: 221.708+/-0.030 χ^2/NDF : 24778192.4/73

In: 209.695+/-0.028 χ^2/NDF : 13876834.3/57

Out: 214.597+/-0.027 χ^2/NDF : 13025944.0/63

All: 212.194+/-0.019 χ^2/NDF : 26918894.6/12

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -555.673 ± 65.129 $\chi^2/\text{NDF}: 2451.2/34$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 1556.590 ± 59.634 $\chi^2/\text{NDF}: 6705.9/38$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

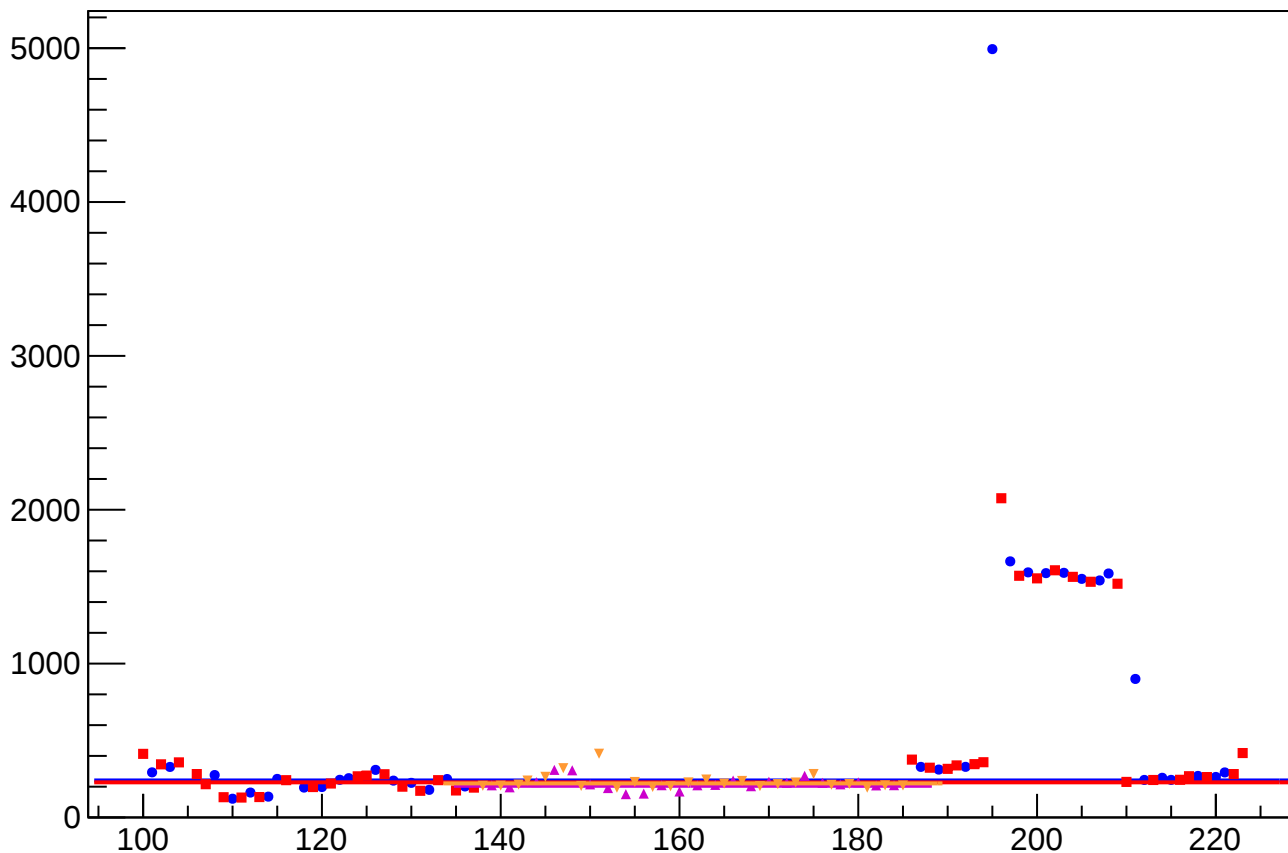
Right: 593.302 ± 43.982 $\chi^2/\text{NDF}: 9729.3/73$

In: 28.269 ± 40.151 $\chi^2/\text{NDF}: 3818.9/57$

Out: 1042.001 ± 39.493 $\chi^2/\text{NDF}: 8697.8/63$

All: 543.504 ± 28.155 $\chi^2/\text{NDF}: 12840.7/121$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 240.440 $\pm$ 0.046 χ^2 /NDF: 11396268.5/34

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 228.231 $\pm$ 0.042 χ^2 /NDF: 10470237.7/38

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

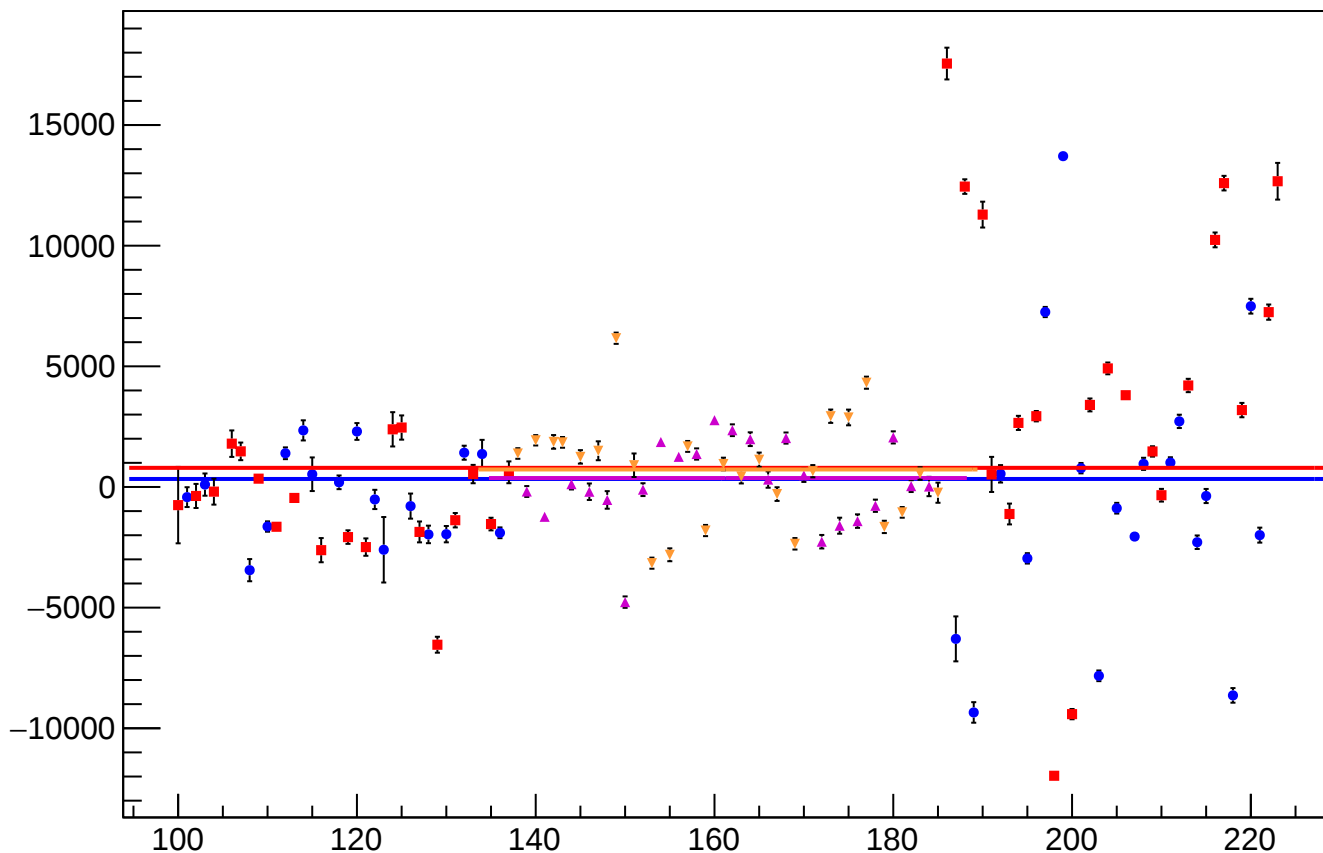
Right: 233.799 $\pm$ 0.031 χ^2 /NDF: 21904739.3/73

In: 218.967 $\pm$ 0.028 χ^2 /NDF: 12741864.4/57

Out: 224.395 $\pm$ 0.028 χ^2 /NDF: 11262813.2/63

All: 221.726 $\pm$ 0.020 χ^2 /NDF: 24023253.6/12

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 331.801+/-48.854 χ^2/NDF : 10100.8/34

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 793.035+/-48.467 χ^2/NDF : 13791.2/38

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

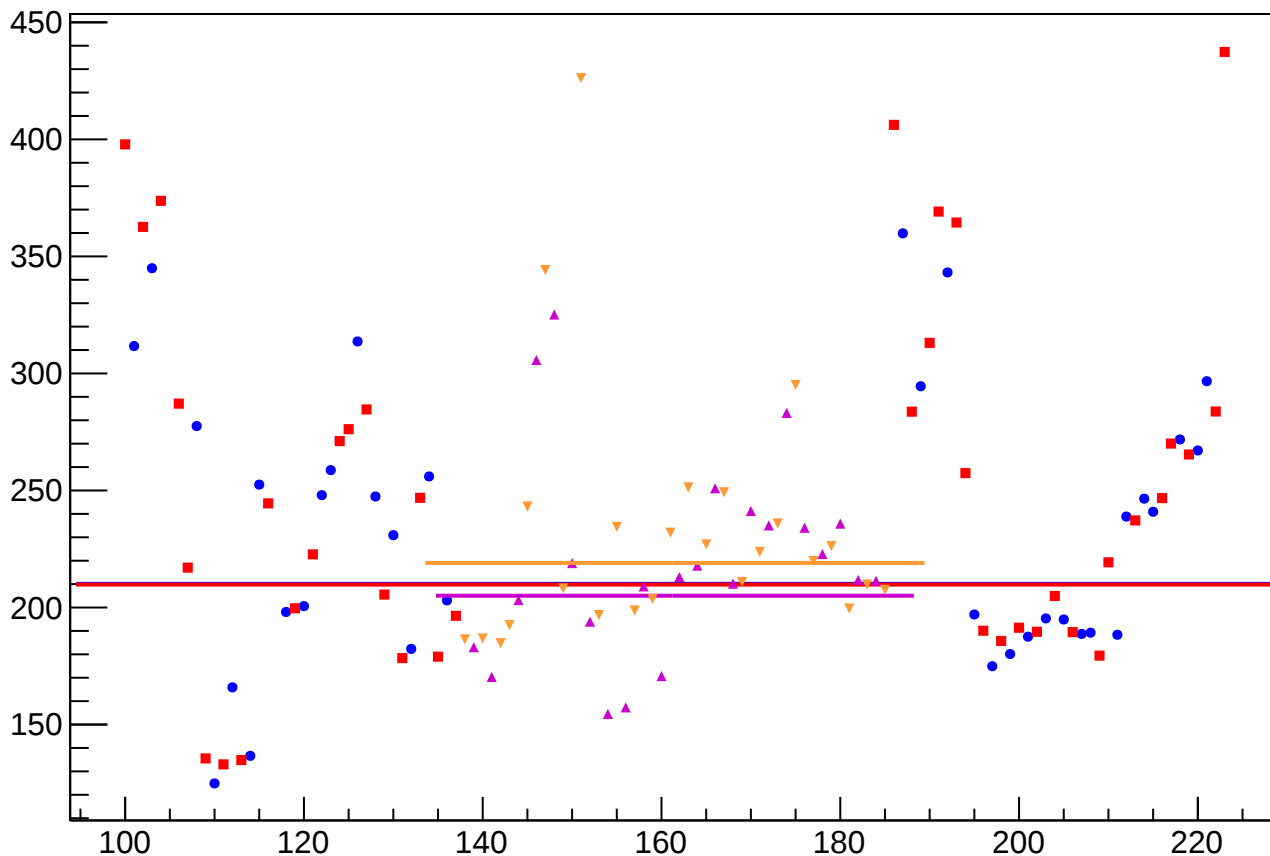
Right: 564.250+/-34.408 χ^2/NDF : 23937.0/73

In: 350.319+/-35.241 χ^2/NDF :11324.3/57

Out: 761.721+/-35.552 χ^2/NDF :15675.2/63

All: 554.214+/-25.028 χ^2/NDF : 27067.1/121

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 210.109 ± 0.035 $\chi^2/\text{NDF}: 1944427.9/34$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 209.795 ± 0.034 $\chi^2/\text{NDF}: 2865890.0/38$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

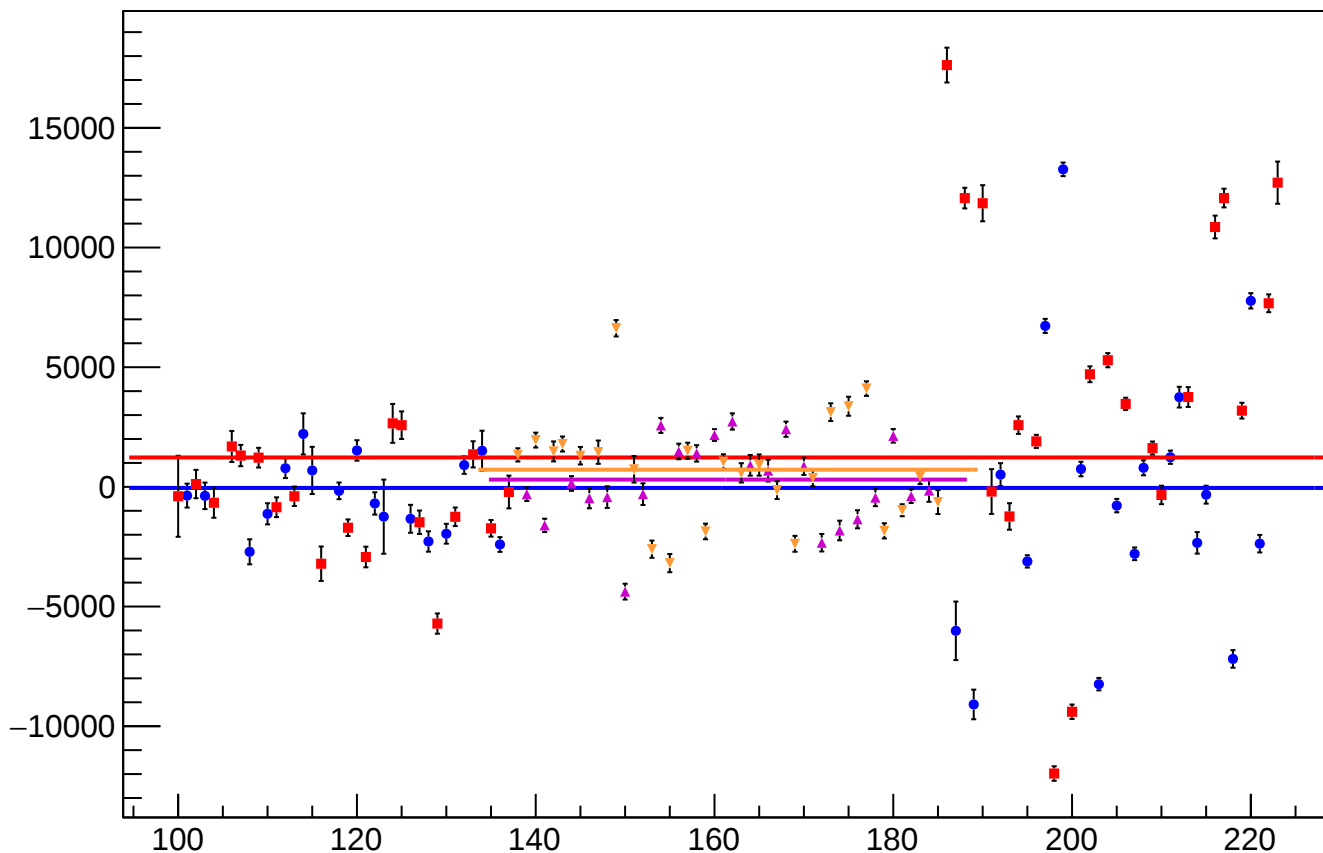
Right: 209.951 ± 0.024 $\chi^2/\text{NDF}: 4810359.5/73$

In: 207.681 ± 0.025 $\chi^2/\text{NDF}: 3098924.7/57$

Out: 214.070 ± 0.025 $\chi^2/\text{NDF}: 3875132.4/63$

All: 210.847 ± 0.018 $\chi^2/\text{NDF}: 7006638.0/123$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -44.476 ± 64.411 χ^2/NDF : 5542.7/34

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 1228.758 ± 66.346 χ^2/NDF : 7297.6/38

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

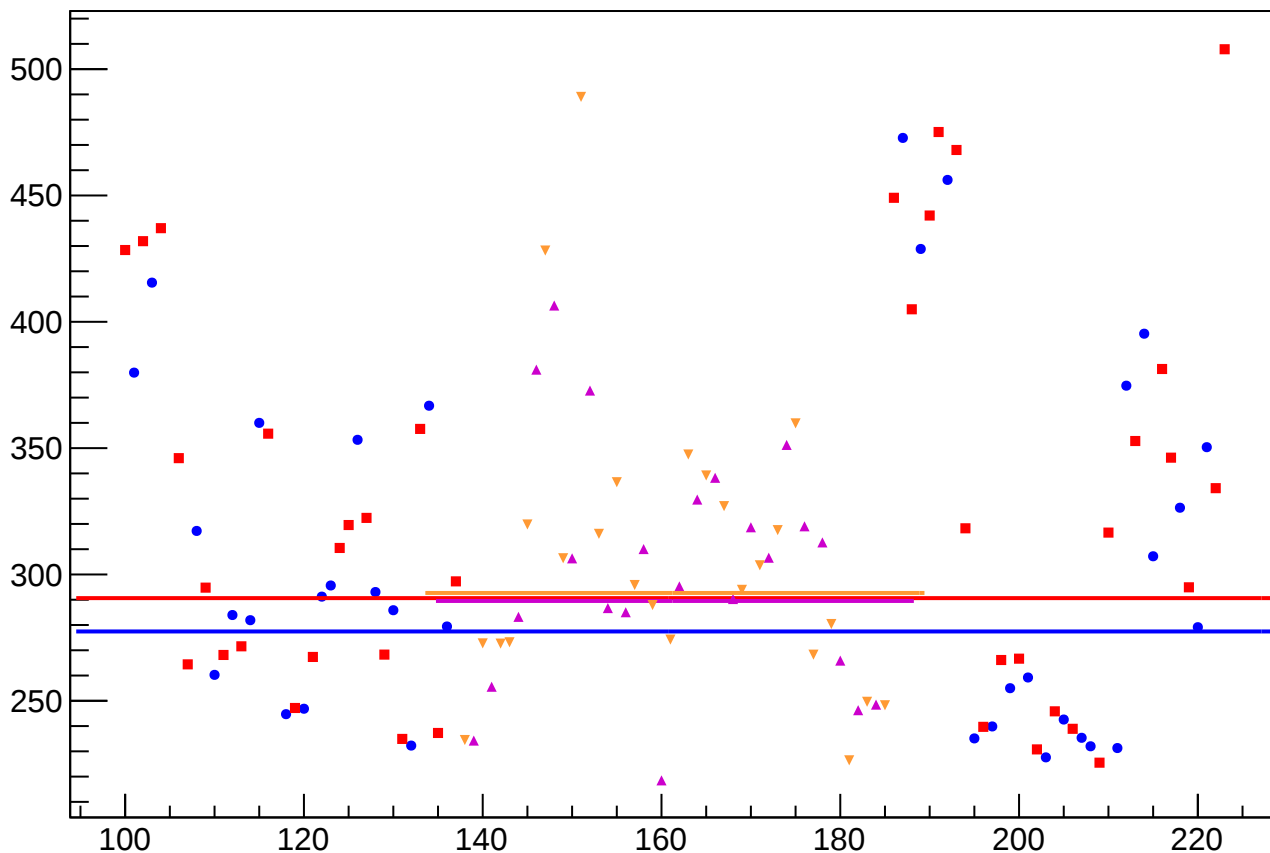
Right: 573.308 ± 46.214 χ^2/NDF : 13029.8/73

In: 113.022 ± 47.692 χ^2/NDF : 6199.4/57

Out: 985.936 ± 48.023 χ^2/NDF : 8344.2/63

All: 546.465 ± 33.840 χ^2/NDF : 14710.0/121

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 277.446 $\pm$ 0.046 χ^2 /NDF: 1529996.2/34

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 290.641 $\pm$ 0.047 χ^2 /NDF: 1785550.4/38

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

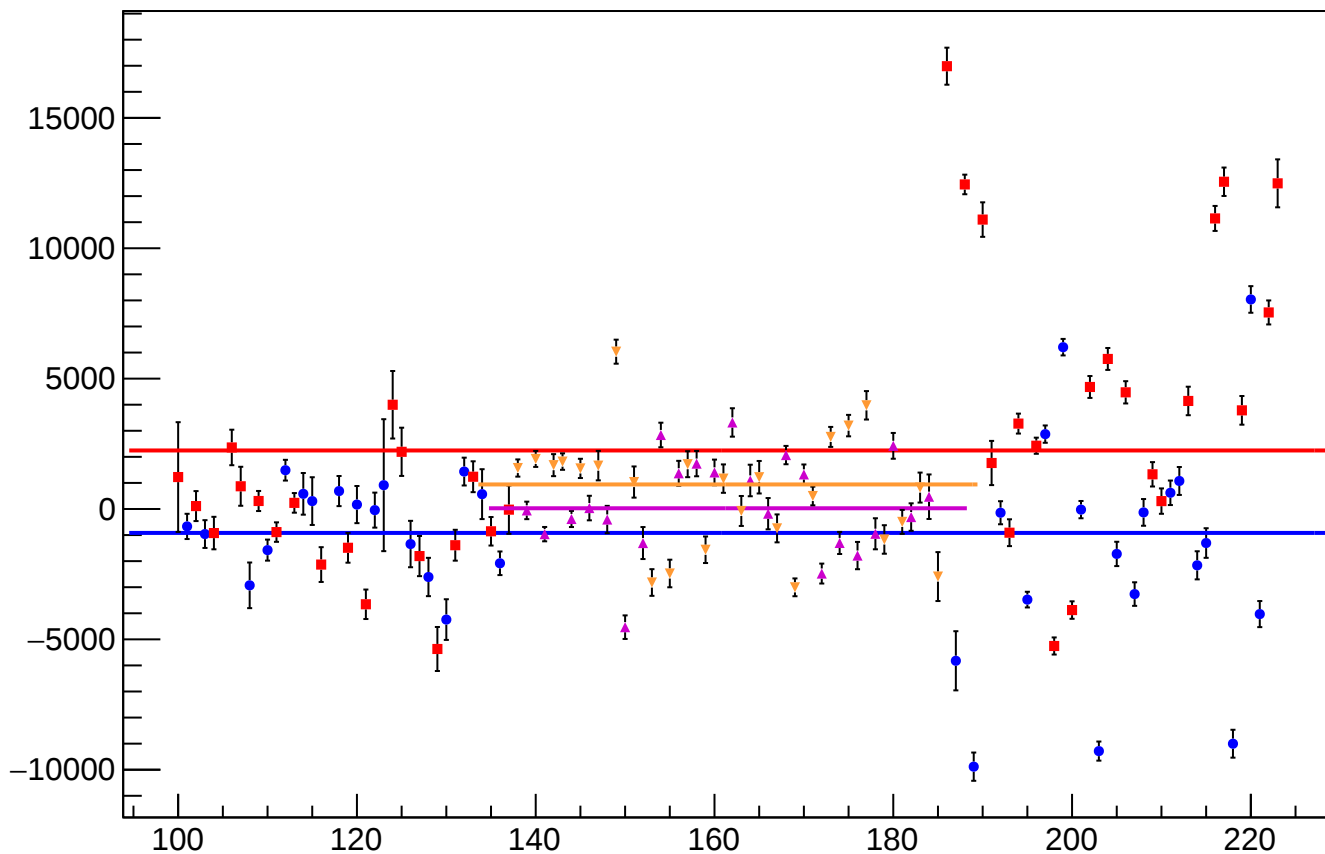
Right: 283.848 $\pm$ 0.033 χ^2 /NDF: 3356266.9/73

In: 282.901 $\pm$ 0.034 χ^2 /NDF: 2339652.5/57

Out: 291.614 $\pm$ 0.034 χ^2 /NDF: 2711648.9/63

All: 287.228 $\pm$ 0.024 χ^2 /NDF: 5084446.5/123

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -917.668 ± 84.194 $\chi^2/\text{NDF}: 2285.8/34$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 2244.704 ± 81.072 $\chi^2/\text{NDF}: 3929.7/38$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

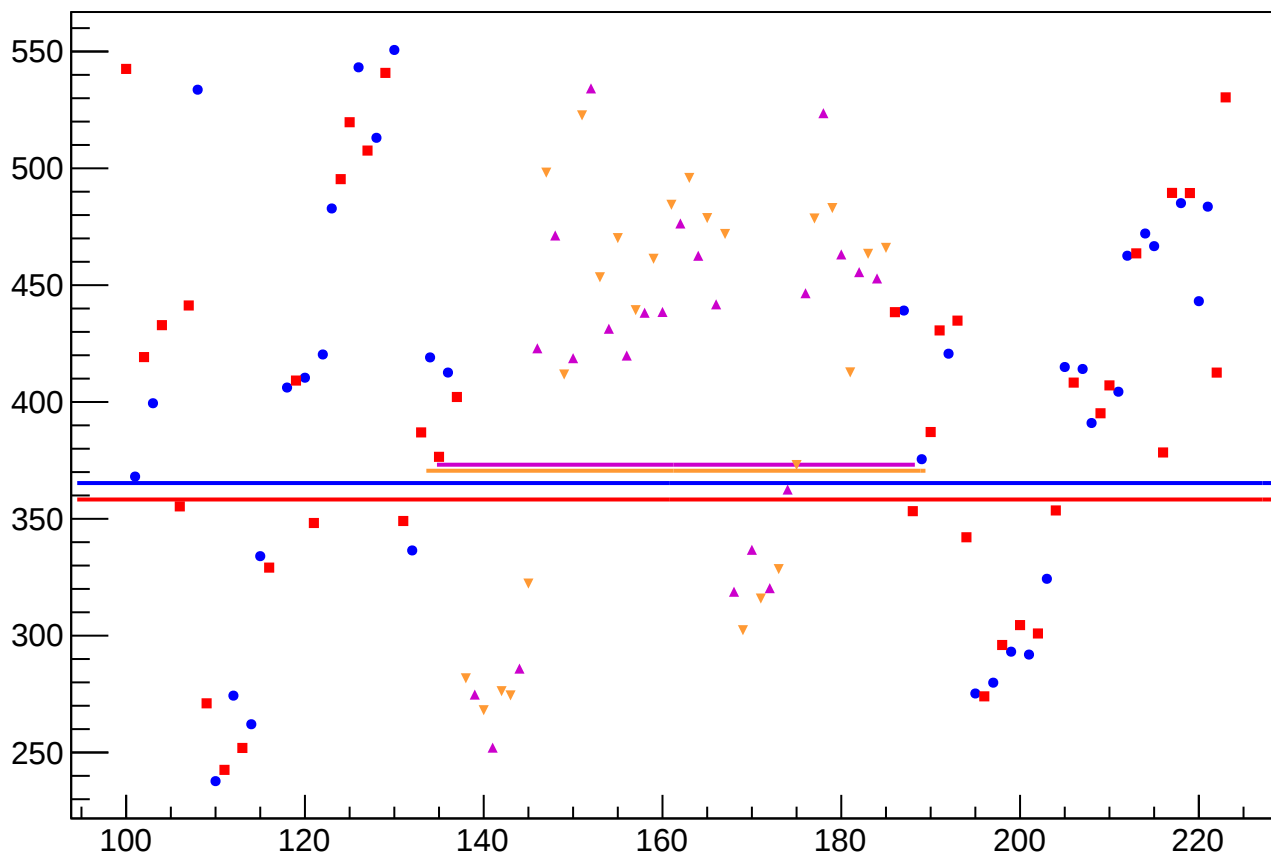
Right: 723.238 ± 58.399 $\chi^2/\text{NDF}: 6947.5/73$

In: -488.441 ± 62.212 $\chi^2/\text{NDF}: 2705.6/57$

Out: 1654.628 ± 59.970 $\chi^2/\text{NDF}: 4591.2/63$

All: 622.411 ± 43.176 $\chi^2/\text{NDF}: 7911.9/121$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 365.308 ± 0.060 $\chi^2/\text{NDF}: 1877464.3/34$

Left Out: 370.580 ± 0.063 $\chi^2/\text{NDF}: 1878118.9/24$

Right Out: 358.270 ± 0.057 $\chi^2/\text{NDF}: 1696660.8/38$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

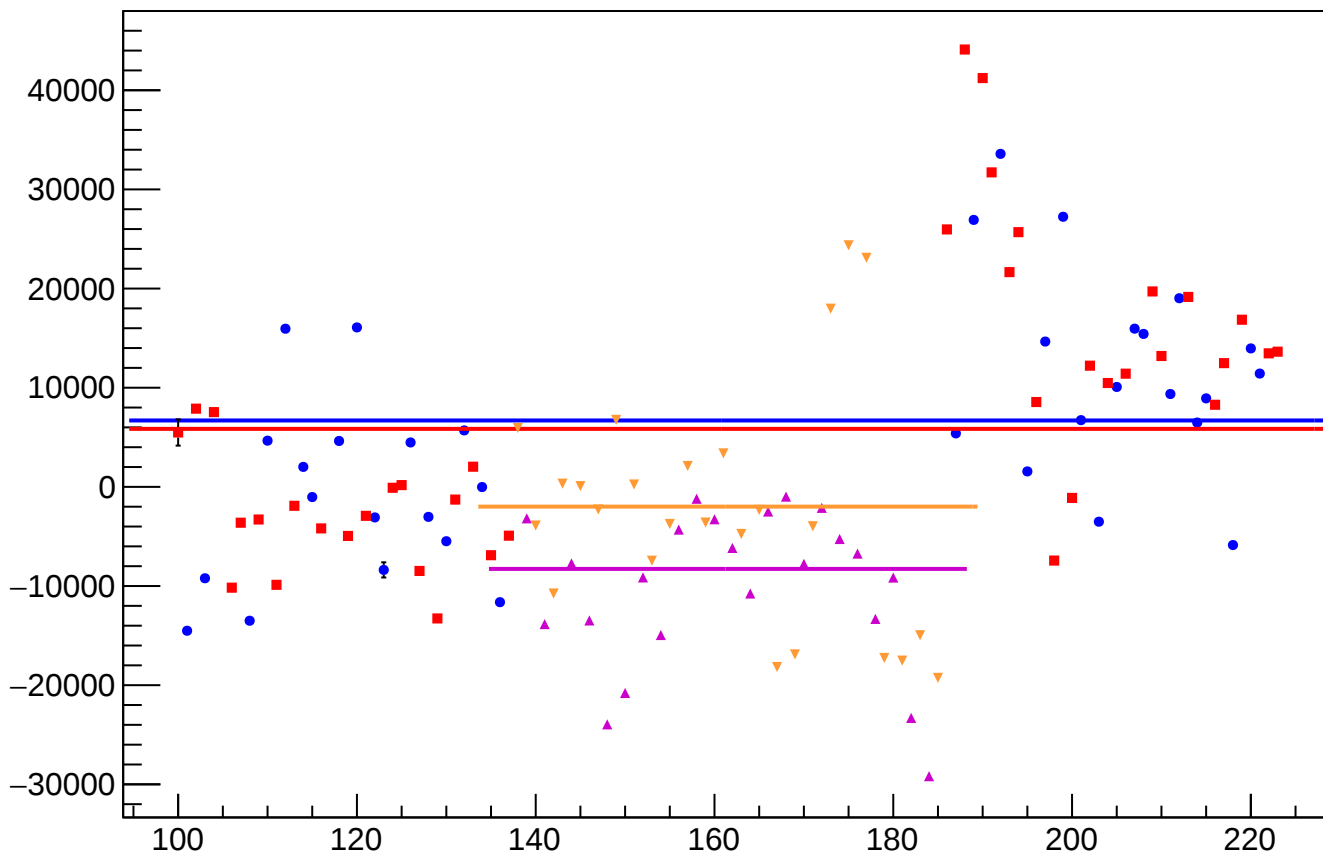
Right: 361.656 ± 0.041 $\chi^2/\text{NDF}: 3581376.0/73$

In: 368.873 ± 0.044 $\chi^2/\text{NDF}: 3521607.3/57$

Out: 363.844 ± 0.042 $\chi^2/\text{NDF}: 3595657.1/63$

All: 366.266 ± 0.031 $\chi^2/\text{NDF}: 7124038.3/121$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6697.508+/-38.234 χ^2/NDF : 97322.3/34

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5850.091+/-37.010 χ^2/NDF : 148135.6/38

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

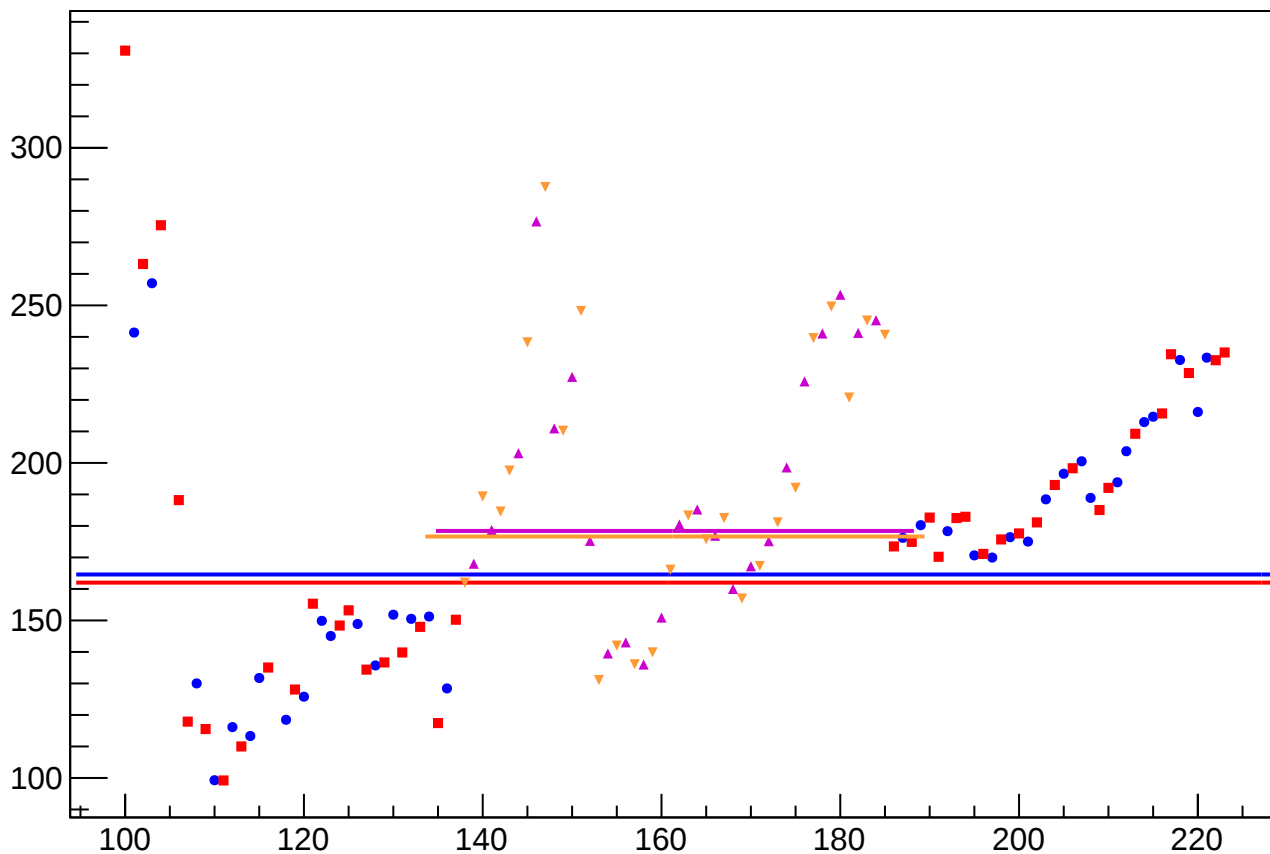
Right: 6260.012+/-26.592 χ^2/NDF : 245711.4/73

In: 306.643+/-28.945 χ^2/NDF : 185640.0/57

Out: 2461.421+/-27.890 χ^2/NDF : 231302.7/63

All: 1424.027+/-20.084 χ^2/NDF : 419816.4/12

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 164.590 $\pm$ 0.027 χ^2 /NDF: 2040126.8/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 162.008 $\pm$ 0.026 χ^2 /NDF: 2363907.1/38

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

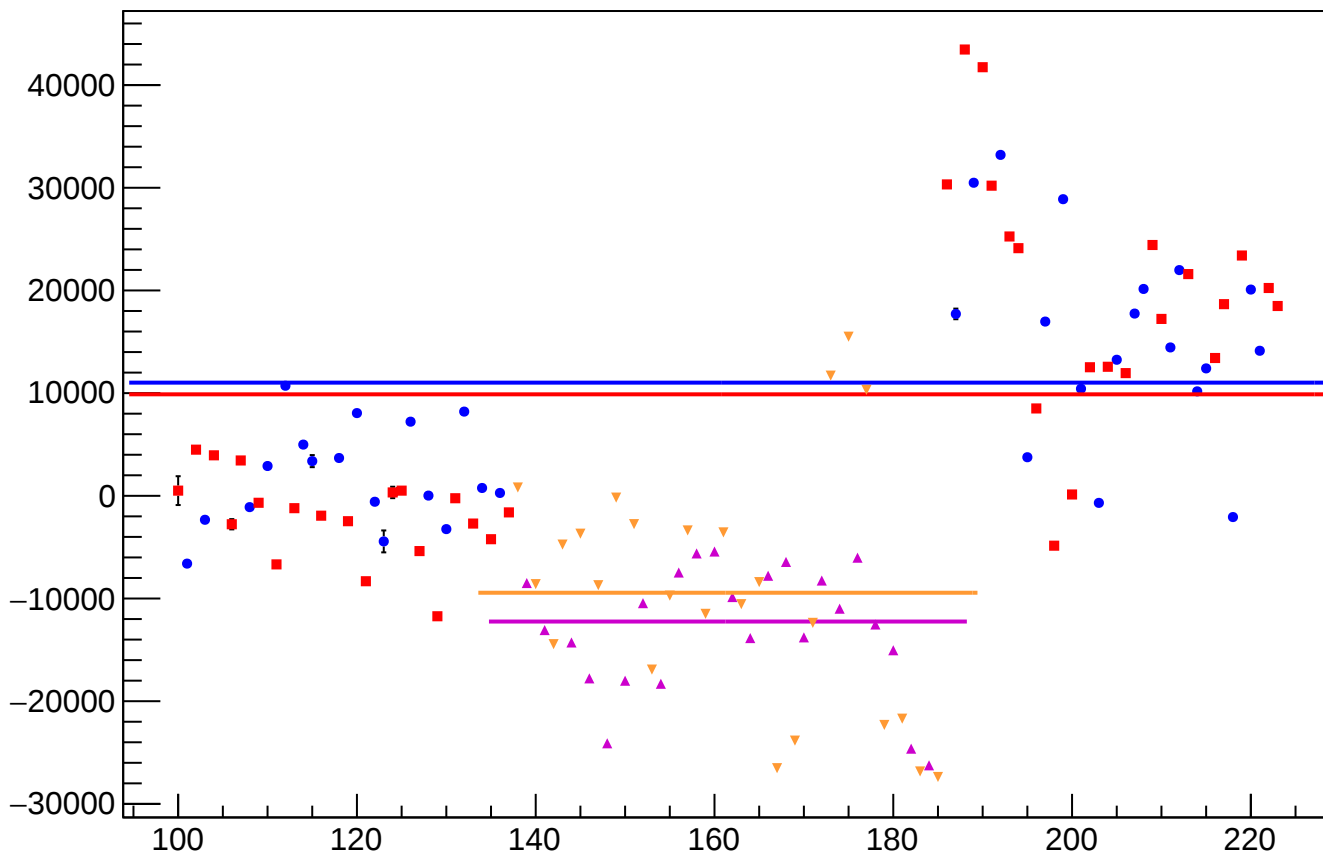
Right: 163.257 $\pm$ 0.019 χ^2 /NDF: 4408742.5/73

In: 170.491 $\pm$ 0.020 χ^2 /NDF:3445468.4/57

Out: 168.331 $\pm$ 0.020 χ^2 /NDF:4050062.5/63

All: 169.371 $\pm$ 0.014 χ^2 /NDF: 7501305.6/123

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11022.905 $\pm$ 41.709

χ^2/NDF : 59144.8/34

Left: -10889.638 $\pm$ 31.621 χ^2/NDF : 80800.7/47

Right: 10437.346 $\pm$ 29.059 χ^2/NDF : 182159.5/73

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

In: -2.782 $\pm$ 30.252 χ^2/NDF : 223215.6/57

Right Out: 9885.006 $\pm$ 40.508

χ^2/NDF : 122631.7/38

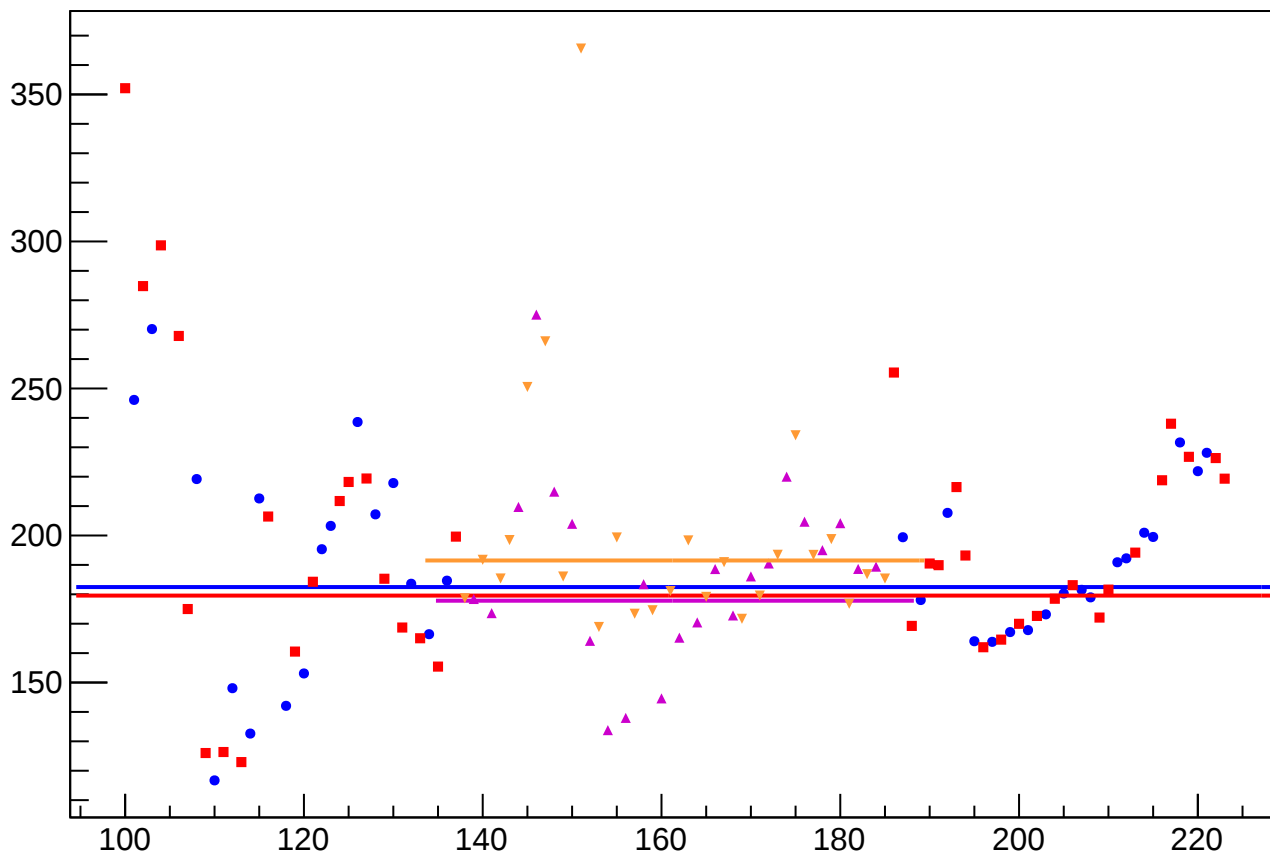
Out: 1348.648 $\pm$ 30.265 χ^2/NDF : 285370.6/63

Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: 672.636 $\pm$ 21.396 χ^2/NDF : 509583.5/121

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 182.464 $\pm$ 0.029 χ^2 /NDF: 1031770.9/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.563 $\pm$ 0.029 χ^2 /NDF: 1482998.4/38

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

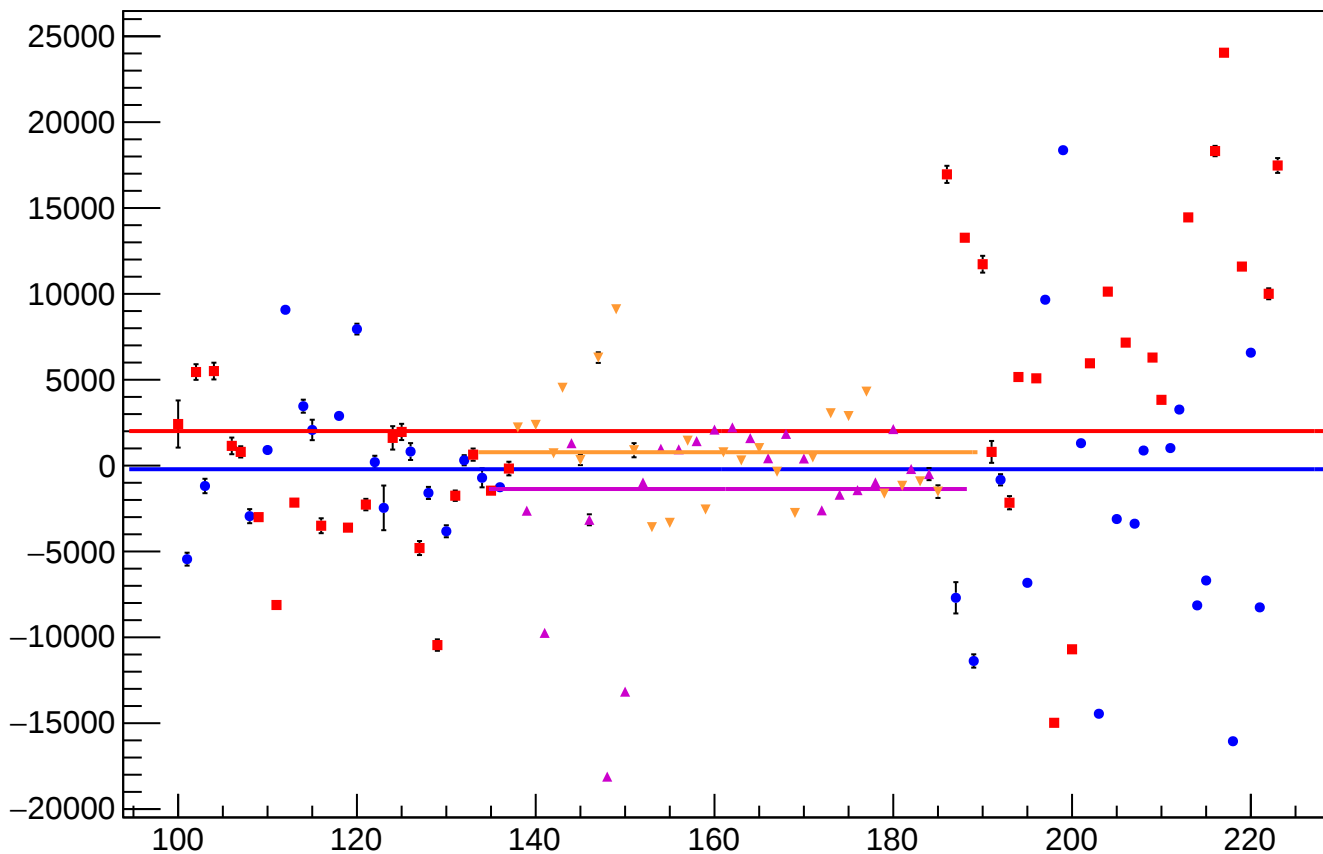
Right: 180.971 $\pm$ 0.021 χ^2 /NDF: 2519746.4/73

In: 180.264 $\pm$ 0.021 χ^2 /NDF: 1906006.6/57

Out: 184.840 $\pm$ 0.021 χ^2 /NDF: 2287061.1/63

All: 182.551 $\pm$ 0.015 χ^2 /NDF: 4215938.5/123

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -210.334 ± 46.763 $\chi^2/\text{NDF}: 26900.0/34$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 2011.048 ± 45.665 $\chi^2/\text{NDF}: 37736.8/38$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

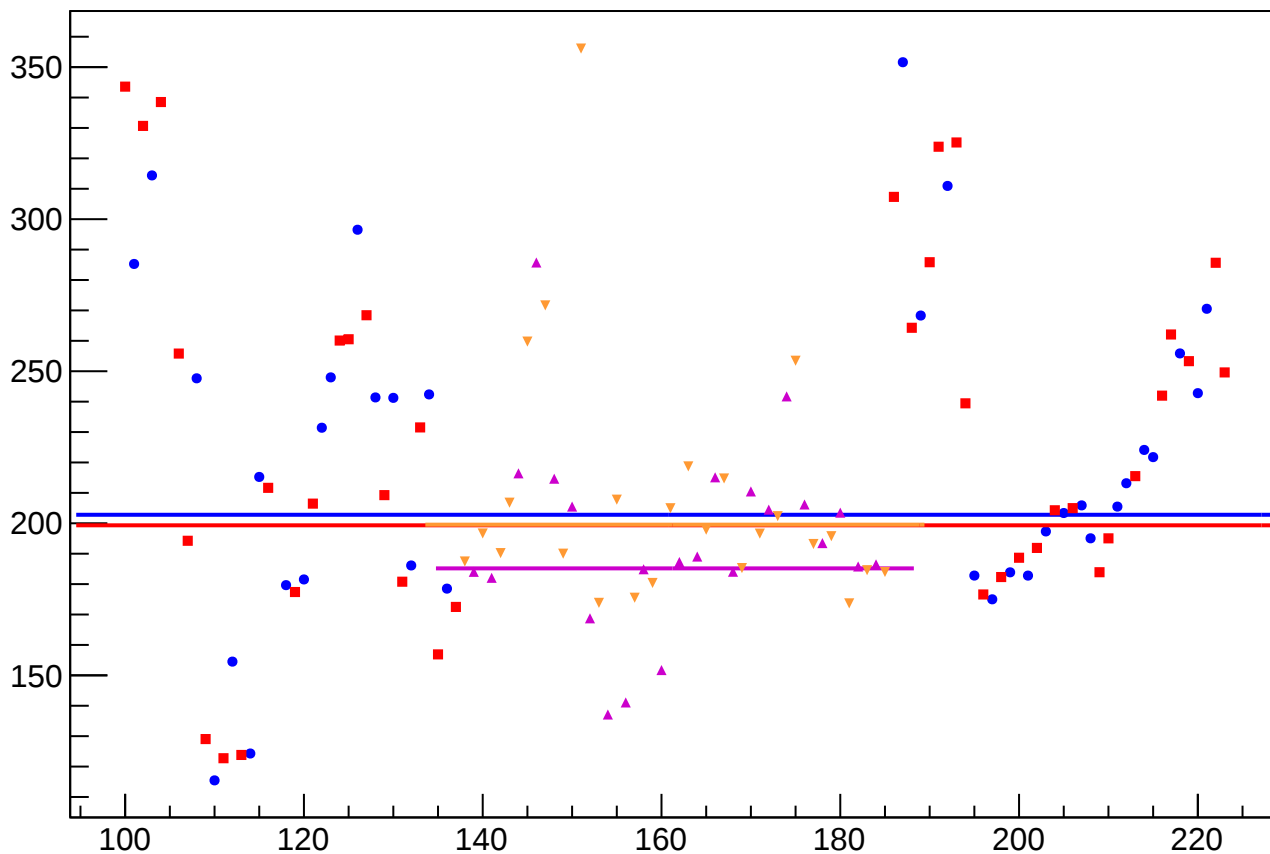
Right: 926.737 ± 32.671 $\chi^2/\text{NDF}: 65791.9/73$

In: -798.592 ± 32.723 $\chi^2/\text{NDF}: 38843.0/57$

Out: 1419.203 ± 32.905 $\chi^2/\text{NDF}: 42347.0/63$

All: 304.141 ± 23.203 $\chi^2/\text{NDF}: 83473.9/121$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 202.799 ± 0.033 $\chi^2/\text{NDF}: 1712407.3/34$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 199.334 ± 0.032 $\chi^2/\text{NDF}: 2581540.0/38$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

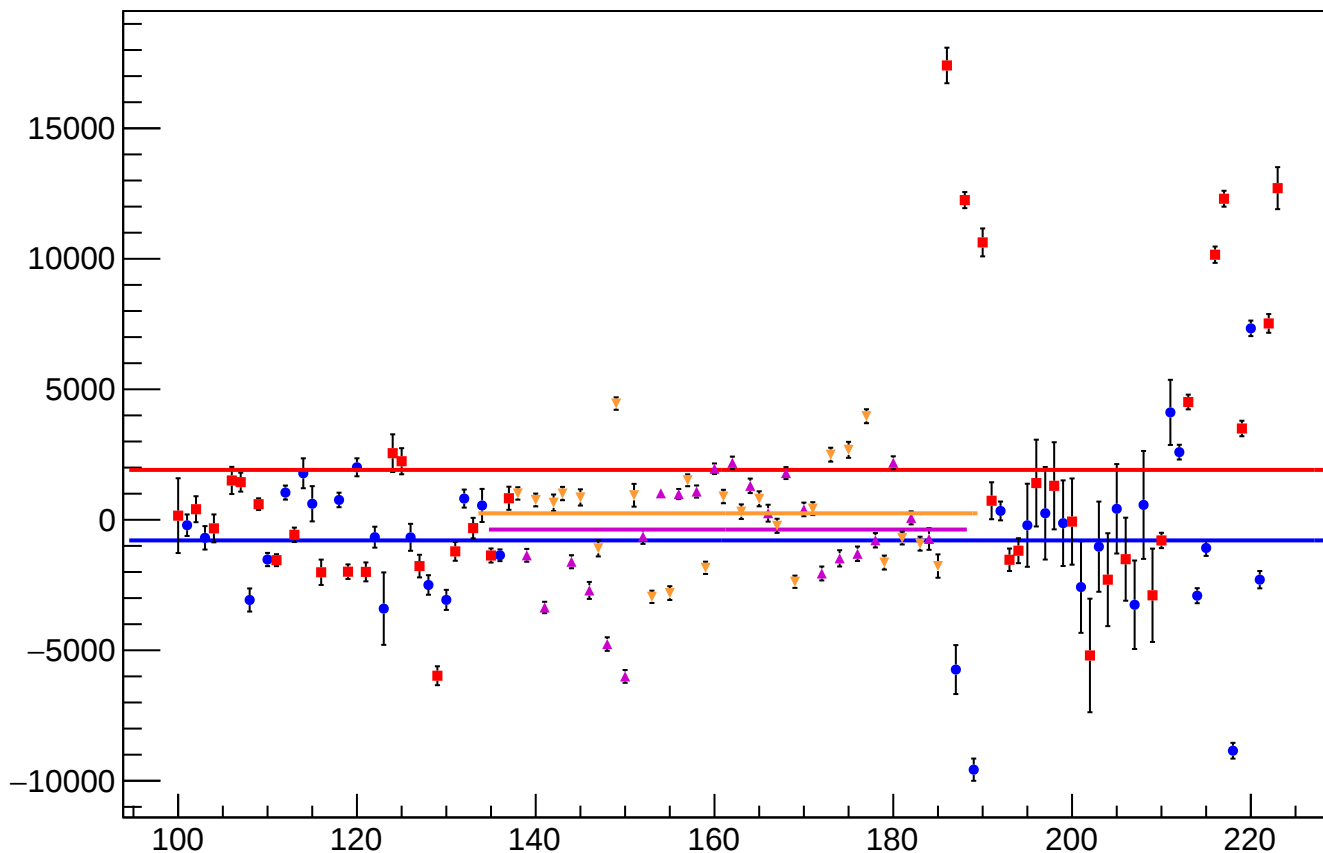
Right: 201.026 ± 0.023 $\chi^2/\text{NDF}: 4299567.5/73$

In: 193.803 ± 0.023 $\chi^2/\text{NDF}: 2740206.9/57$

Out: 199.436 ± 0.023 $\chi^2/\text{NDF}: 3310917.1/63$

All: 196.604 ± 0.016 $\chi^2/\text{NDF}: 6080599.2/123$

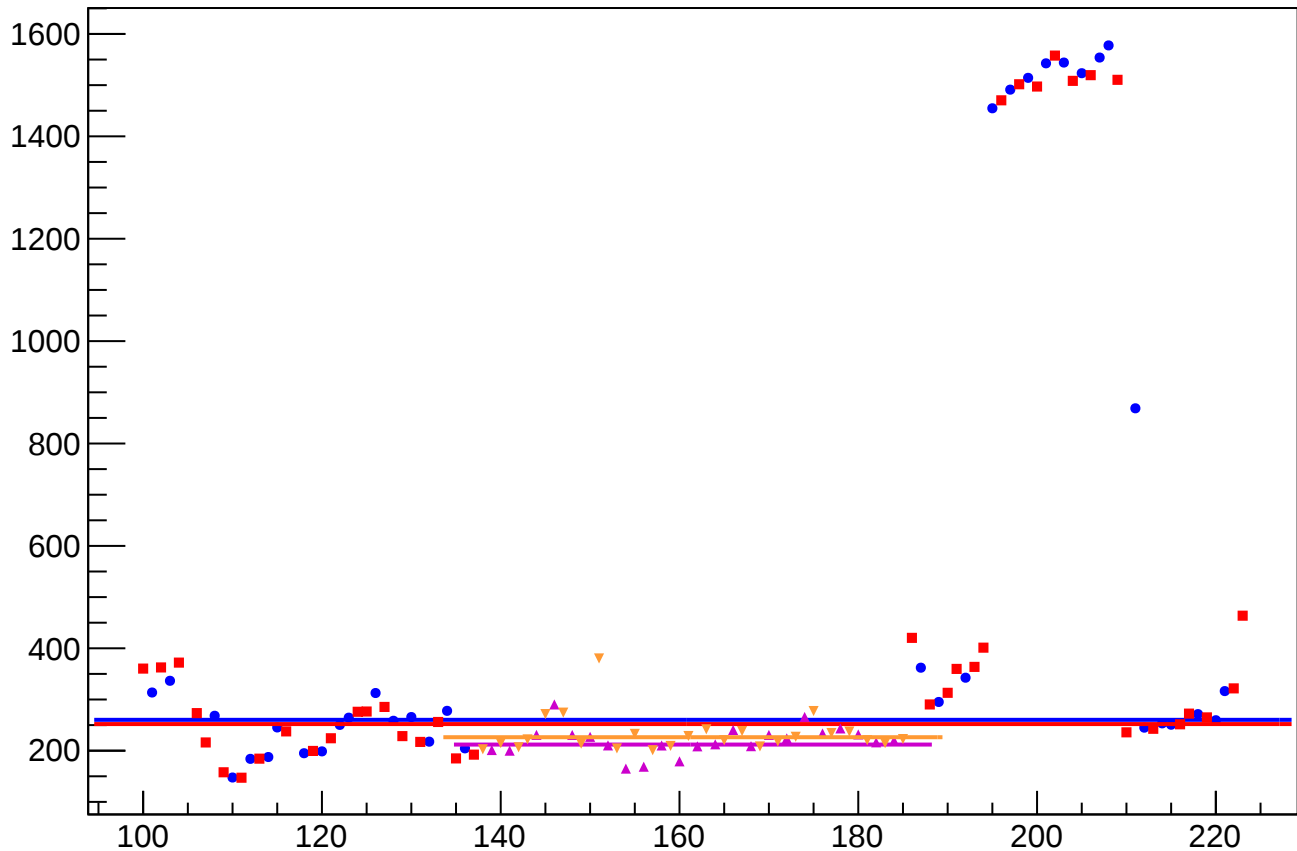
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -789.969 ± 68.820 $\chi^2/\text{NDF}: 2454.1/34$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 1911.171 ± 64.036 $\chi^2/\text{NDF}: 6081.0/38$
 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: 657.734 ± 46.881 $\chi^2/\text{NDF}: 9360.8/73$
 In: -525.435 ± 41.513 $\chi^2/\text{NDF}: 4278.3/57$
 Out: 932.416 ± 41.082 $\chi^2/\text{NDF}: 7833.1/63$
 All: 211.109 ± 29.200 $\chi^2/\text{NDF}: 12734.5/121$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 260.297 $\pm$ 0.049 χ^2 /NDF: 10211166.5/34

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 251.996 $\pm$ 0.045 χ^2 /NDF: 9515246.9/38

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

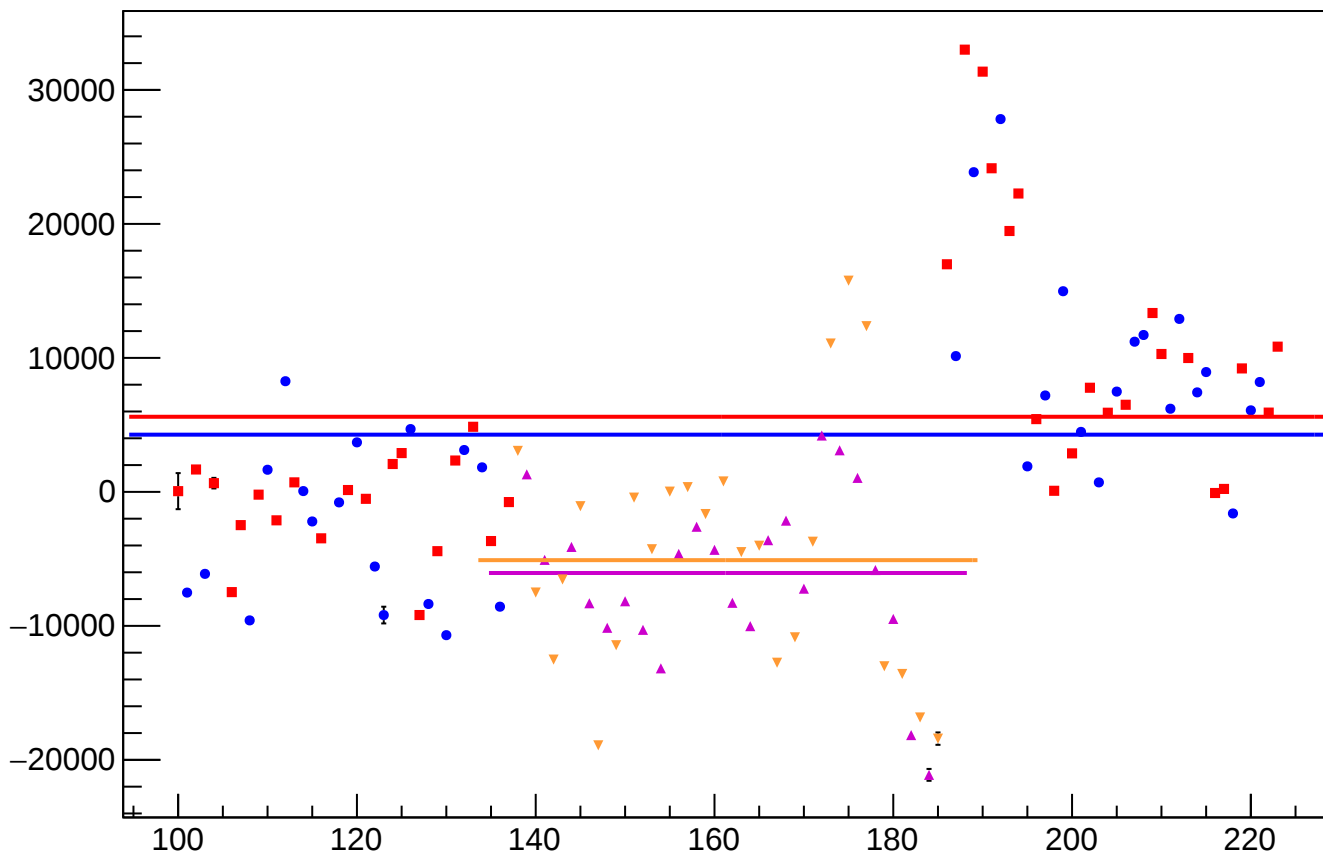
Right: 255.848 $\pm$ 0.033 χ^2 /NDF: 19742006.7/73

In: 229.555 $\pm$ 0.029 χ^2 /NDF: 11422870.1/57

Out: 236.888 $\pm$ 0.029 χ^2 /NDF: 10225466.4/63

All: 233.260 $\pm$ 0.021 χ^2 /NDF: 21679873.1/12

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4270.727+/-32.521 χ^2/NDF : 81247.8/34

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5606.557+/-31.271 χ^2/NDF : 105593.2/38

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

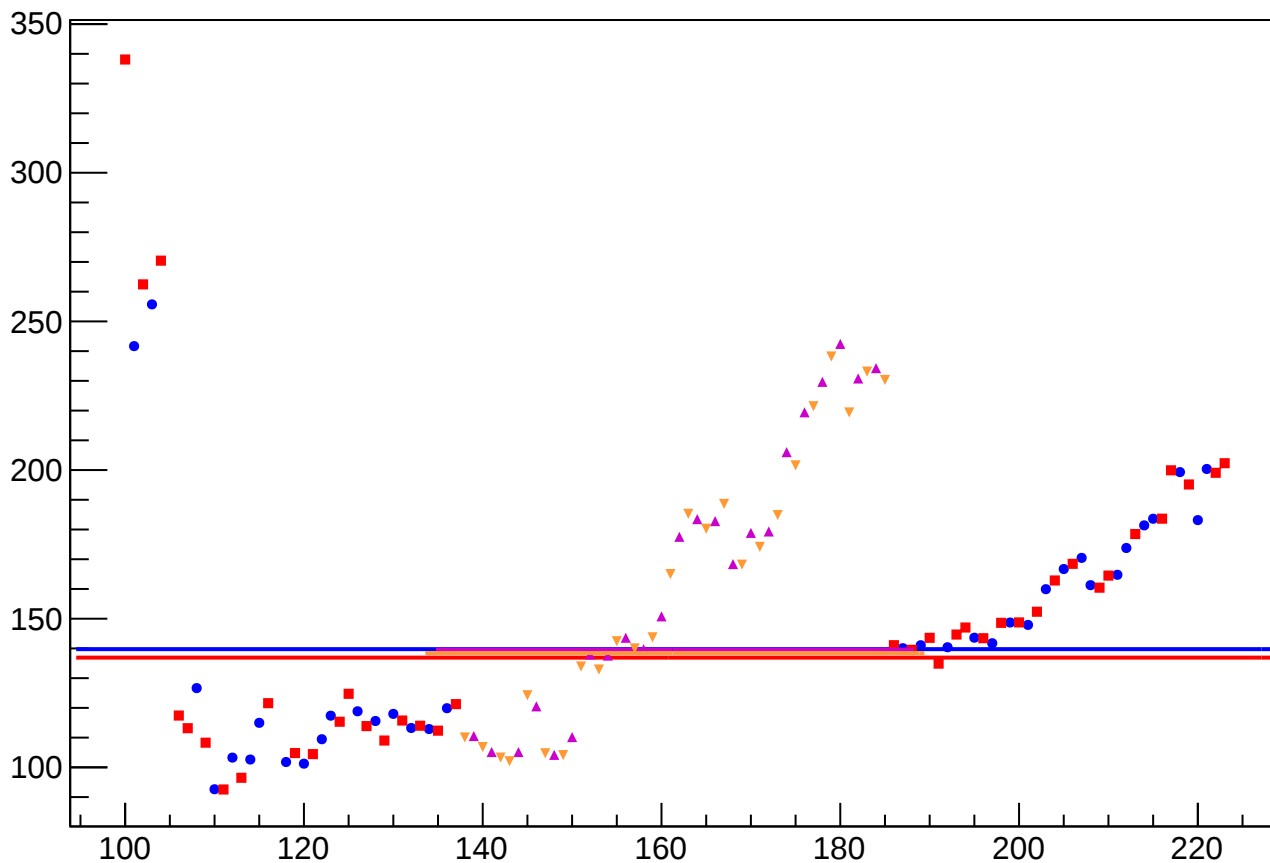
Right: 4964.801+/-22.541 χ^2/NDF : 187717.6/73

In: -513.182+/-23.823 χ^2/NDF : 145537.6/57

Out: 655.642+/-22.924 χ^2/NDF : 214170.0/63

All: 93.715+/-16.518 χ^2/NDF : 360957.5/121

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 139.759+/-0.023 χ^2/NDF : 2059540.7/34

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 136.908+/-0.022 χ^2/NDF : 2249721.8/38

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

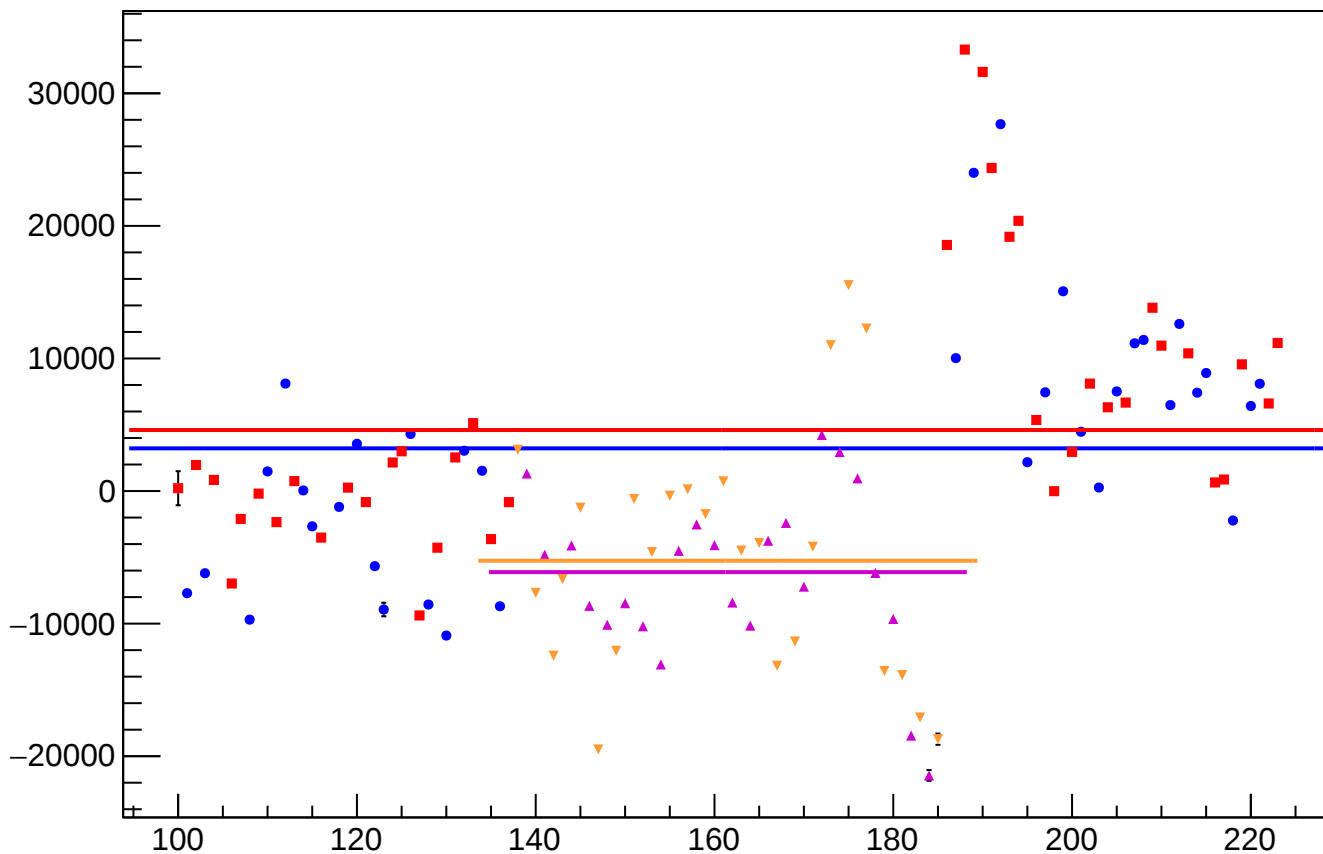
Right: 138.278+/-0.016 χ^2/NDF : 4317247.6/73

In: 139.675+/-0.017 χ^2/NDF : 4473228.5/57

Out: 137.615+/-0.016 χ^2/NDF : 4801364.3/63

All: 138.605+/-0.012 χ^2/NDF : 9282358.5/123

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3220.495+/-29.303

χ^2/NDF : 92624.7/34

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4603.141+/-28.225

χ^2/NDF : 115534.7/38

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3937.720+/-20.329

χ^2/NDF : 209314.2/73

In: -1019.186+/-21.650

χ^2/NDF : 159978.5/57

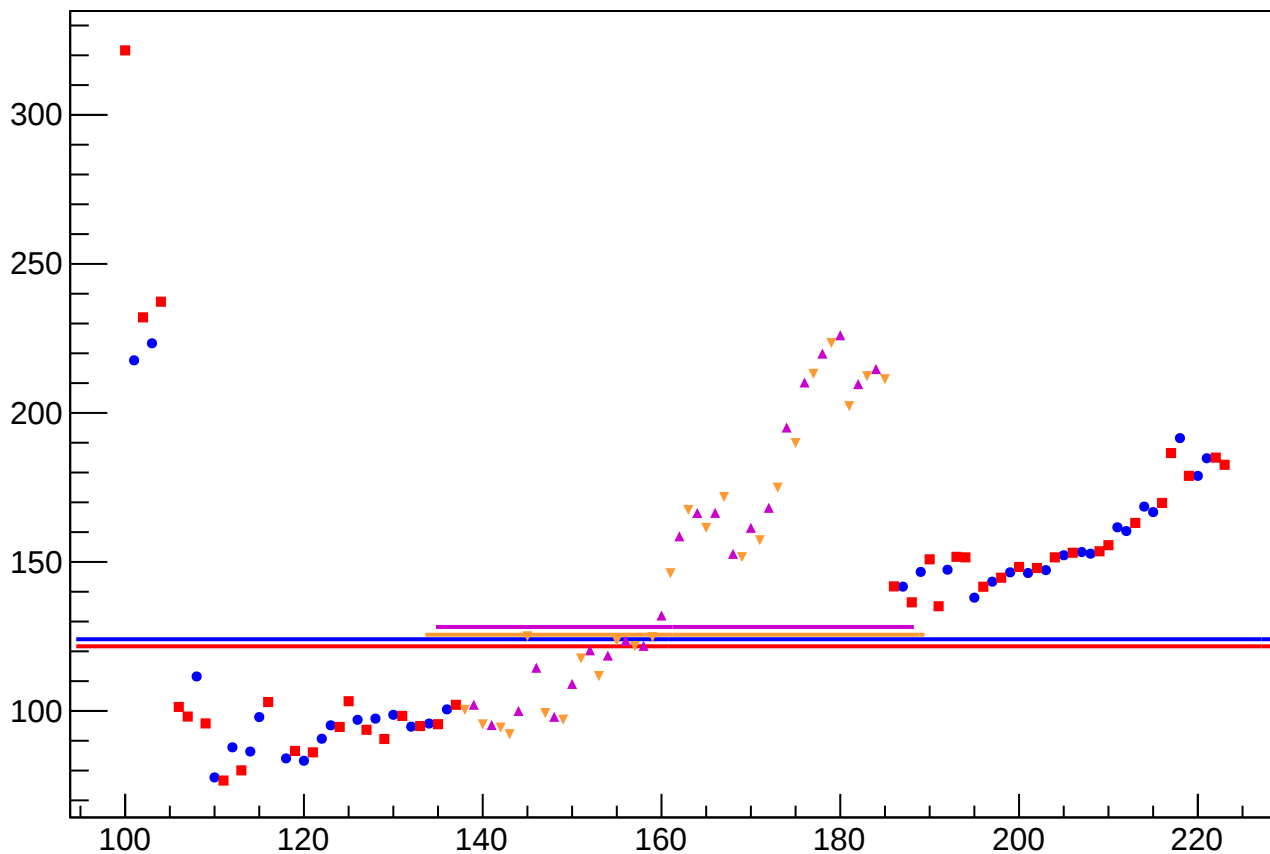
Out: 74.620+/-20.754

χ^2/NDF : 235900.5/63

All: -449.186+/-14.982

χ^2/NDF : 397209.2/12

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 124.063 $\pm$ 0.021 χ^2 /NDF: 3022195.0/34

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF:2595752.6/24

Right Out: 121.689 $\pm$ 0.020 χ^2 /NDF: 3255514.4/38

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

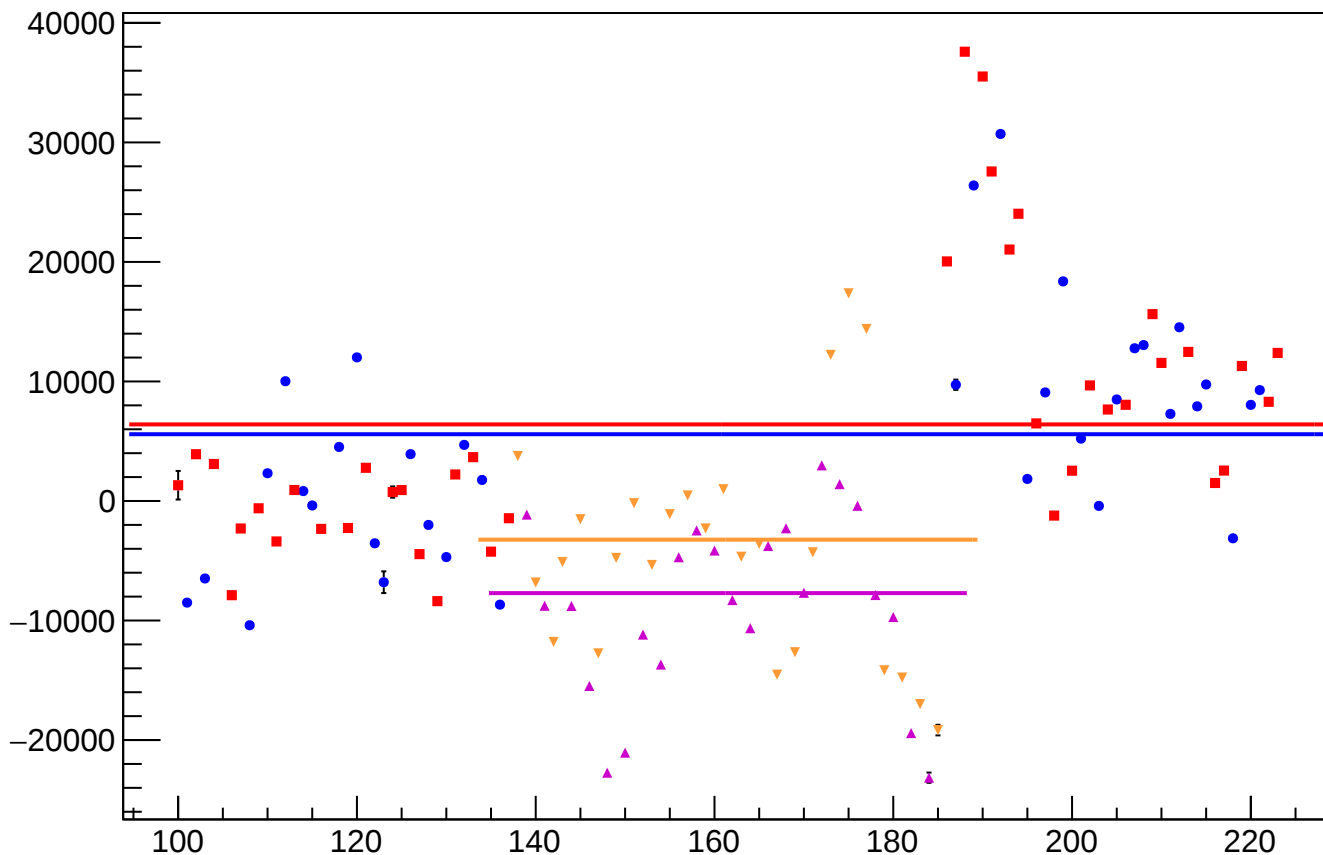
Right: 122.832 $\pm$ 0.014 χ^2 /NDF: 6284521.4/73

In: 125.935 $\pm$ 0.015 χ^2 /NDF:5373129.5/57

Out: 123.475 $\pm$ 0.015 χ^2 /NDF:5868701.2/63

All: 124.653 $\pm$ 0.011 χ^2 /NDF: 11255283.1/12

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5586.157+/-38.588 χ^2/NDF : 64279.0/34

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 6407.363+/-37.102 χ^2/NDF : 94623.4/38

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

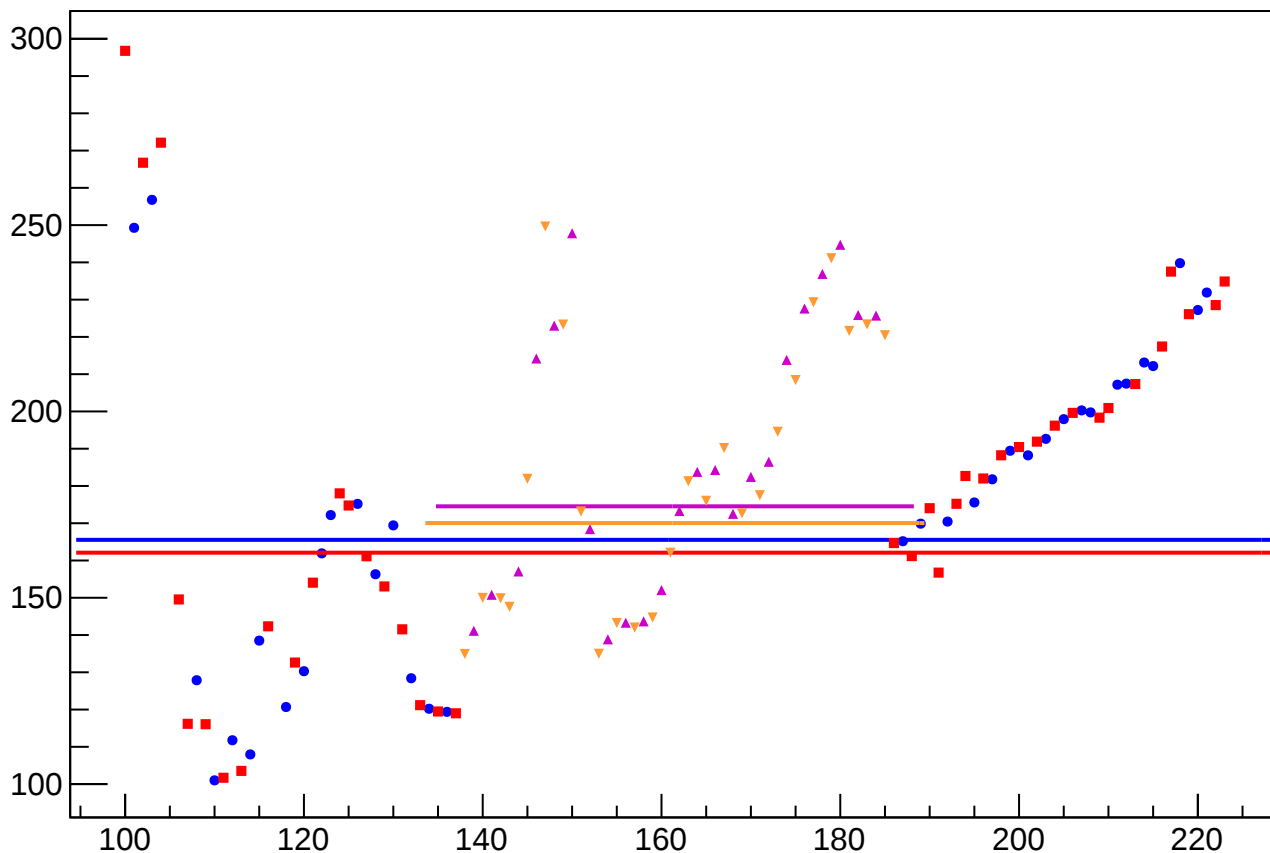
Right: 6012.871+/-26.745 χ^2/NDF : 159137.8/73

In: -345.245+/-28.716 χ^2/NDF : 138499.4/57

Out: 2017.317+/-27.383 χ^2/NDF : 162113.3/63

All: 892.148+/-19.817 χ^2/NDF : 304157.8/121

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 165.544+/-0.027 χ^2/NDF : 2350112.2/34

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 162.103+/-0.026 χ^2/NDF : 2513854.0/38

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.165+/-0.021 χ^2/NDF : 2462472.2/47

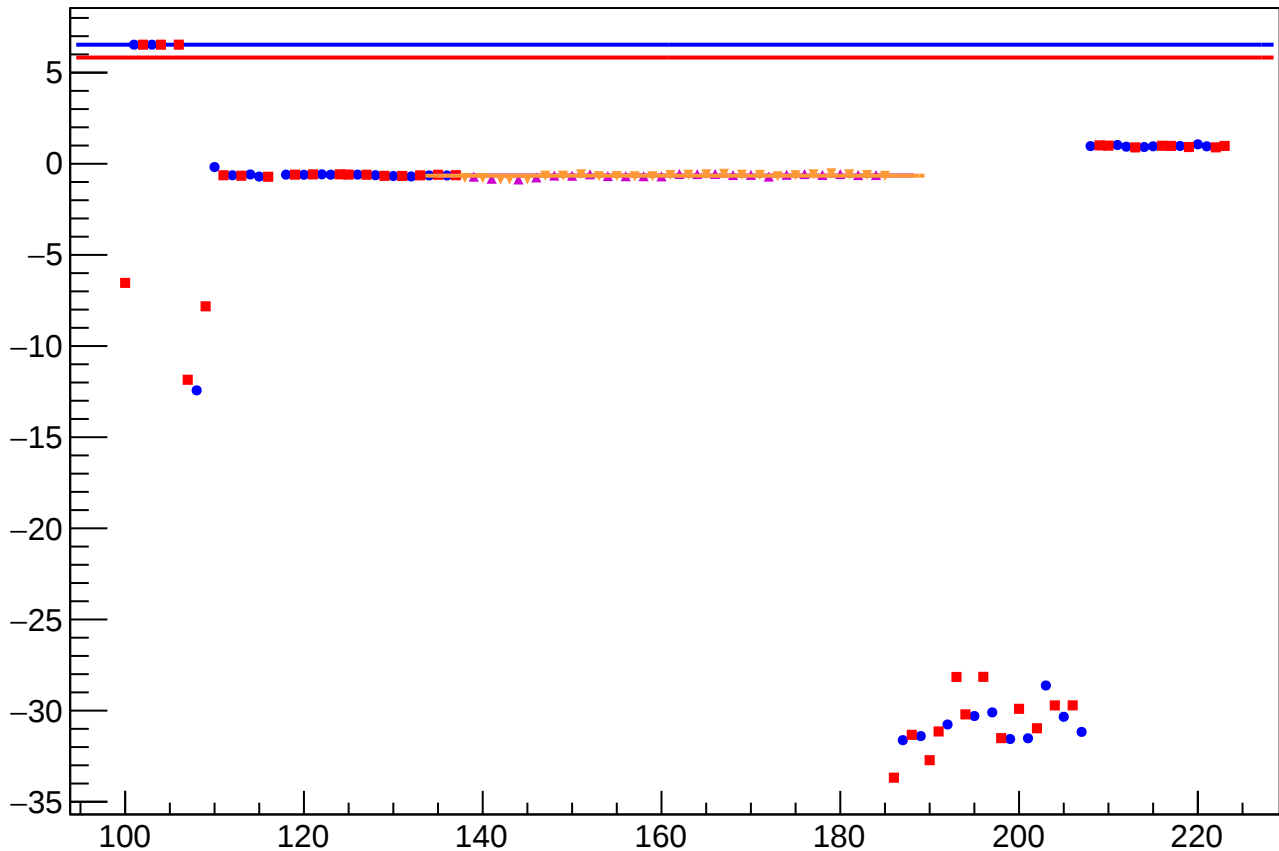
Right: 163.756+/-0.019 χ^2/NDF : 4872231.4/73

In: 169.558+/-0.020 χ^2/NDF :3608676.6/57

Out: 165.721+/-0.019 χ^2/NDF :3796496.1/63

All: 167.548+/-0.014 χ^2/NDF : 7423871.9/123

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 142909346113.4/34

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755958639221349.2/38

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

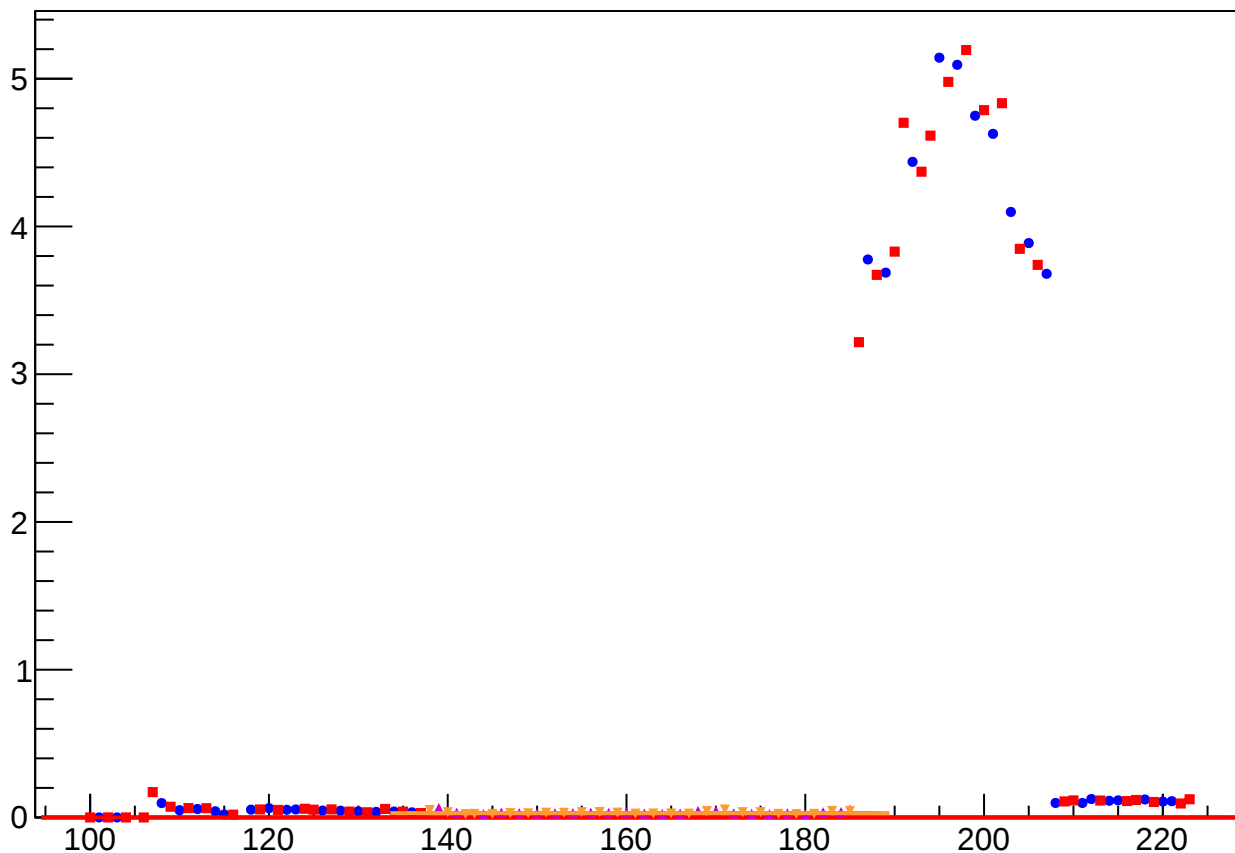
Right: 6.155+/-0.000 χ^2/NDF : 776104262565176.5/47

In: 6.530+/-0.000 χ^2/NDF : 968248575066.4/57

Out: 5.826+/-0.000 χ^2/NDF : 756667662307366.1/67

All: 6.153+/-0.000 χ^2/NDF : 77762761893612.9/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34663062.8/34

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35670364.5/38

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

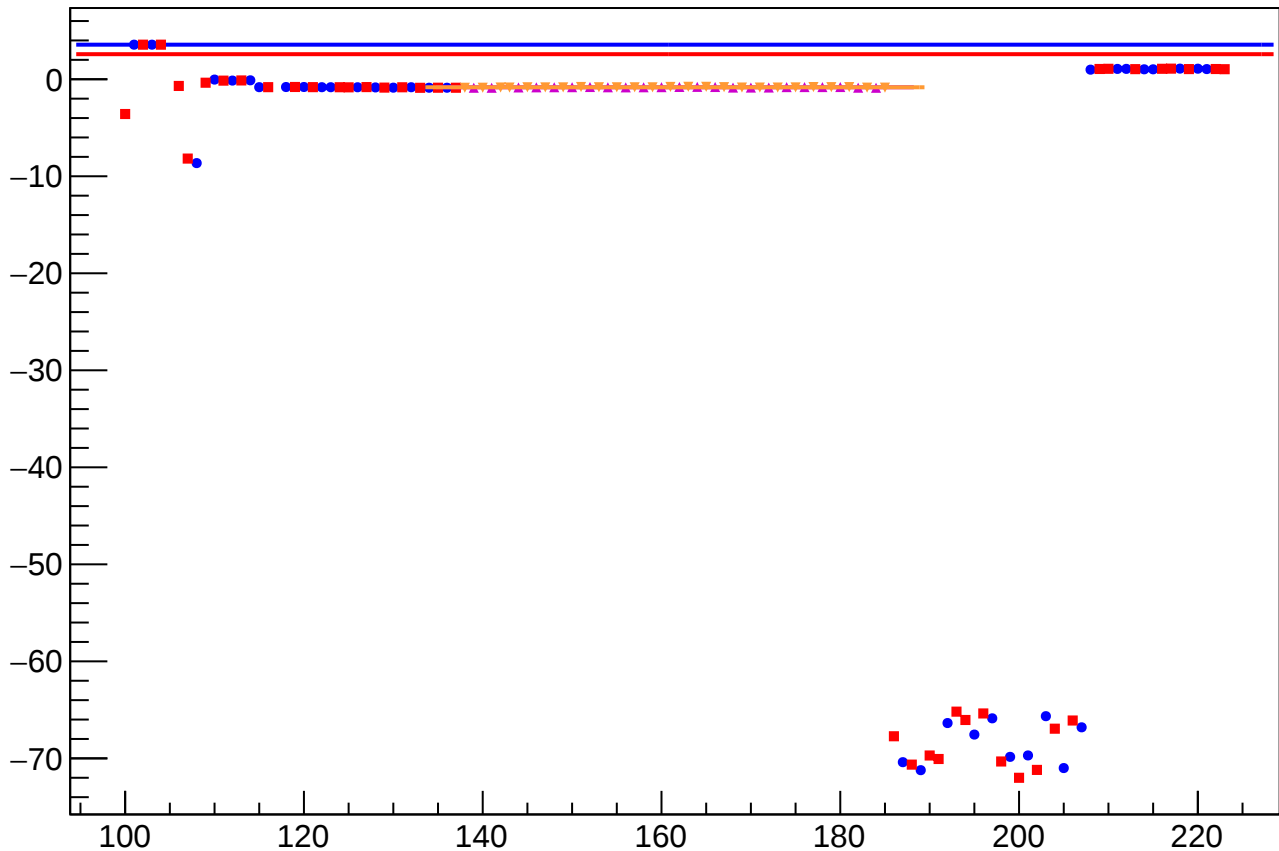
Right: 0.000+/-0.000 χ^2/NDF : 70333717.8/73

In: 0.000+/-0.000 χ^2/NDF :62623428.3/57

Out: 0.000+/-0.000 χ^2/NDF :65544918.0/63

All: 0.000+/-0.000 χ^2/NDF : 128168813.7/121

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 615357004001.1/34

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253580439703640.0/38

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

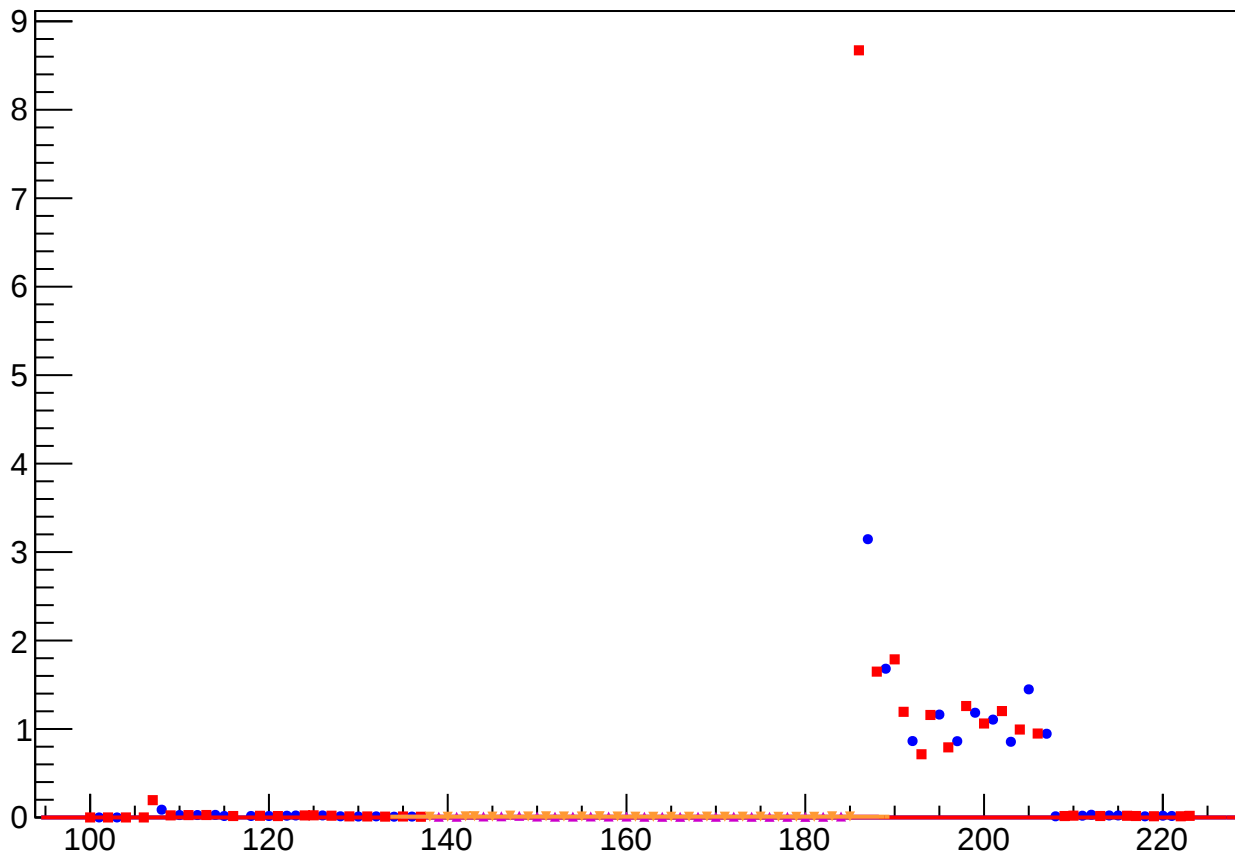
Right: 3.040+/-0.000 χ^2/NDF : 1382460402383290.8

In: 3.560+/-0.000 χ^2/NDF : 4260833610604.3/57

Out: 2.581+/-0.000 χ^2/NDF : 1255802631217363.0

All: 3.037+/-0.000 χ^2/NDF : 13881464764830.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31492272.3/34

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33092841.2/38

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

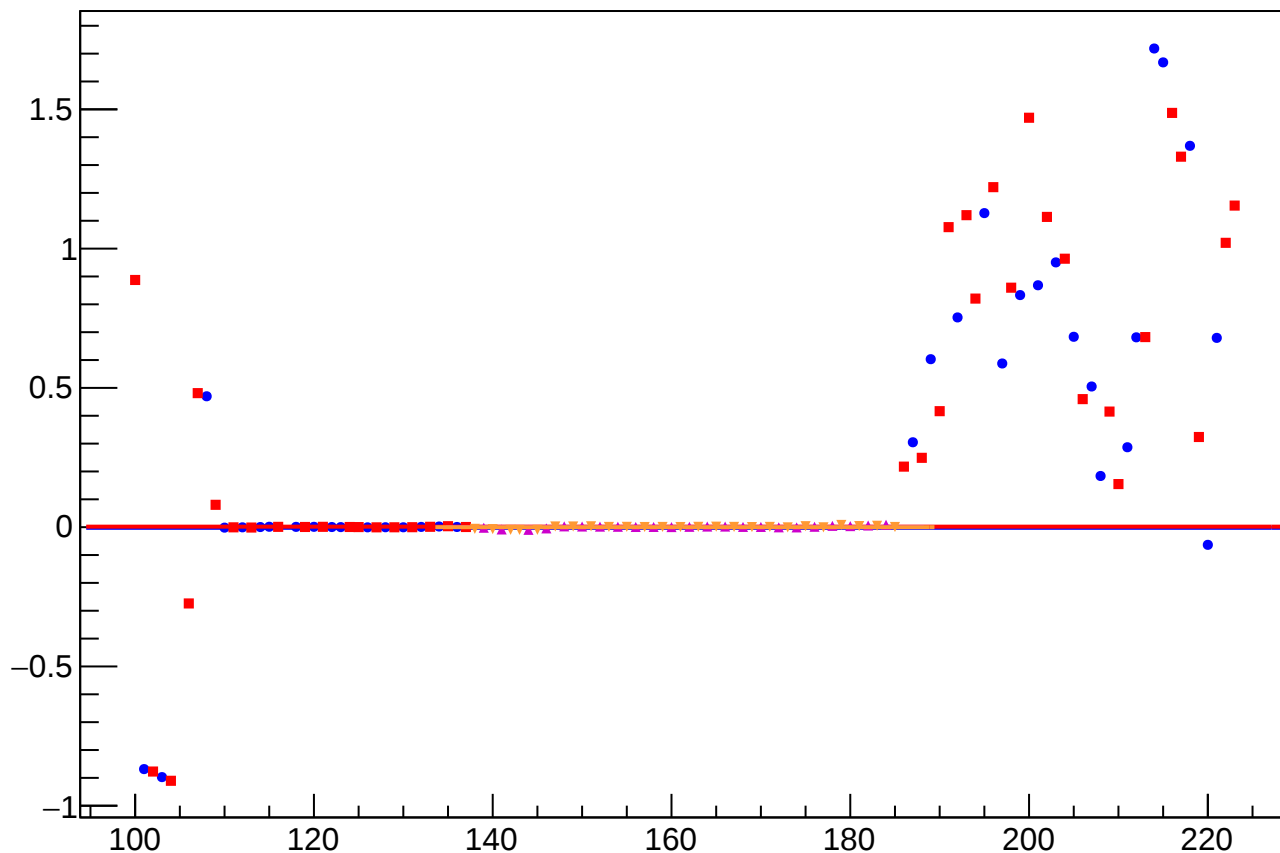
Right: 0.000+/-0.000 χ^2/NDF : 64585404.5/73

In: 0.000+/-0.000 χ^2/NDF :61020968.8/57

Out: 0.000+/-0.000 χ^2/NDF :64503993.1/63

All: 0.000+/-0.000 χ^2/NDF : 125525732.6/121

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9798090609.9/34

Left Out: -0.000 ± 0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044451277.9/38

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 : 12856311319.0/73

In: -0.000 ± 0.000

χ^2/NDF : 9910537199.4/57

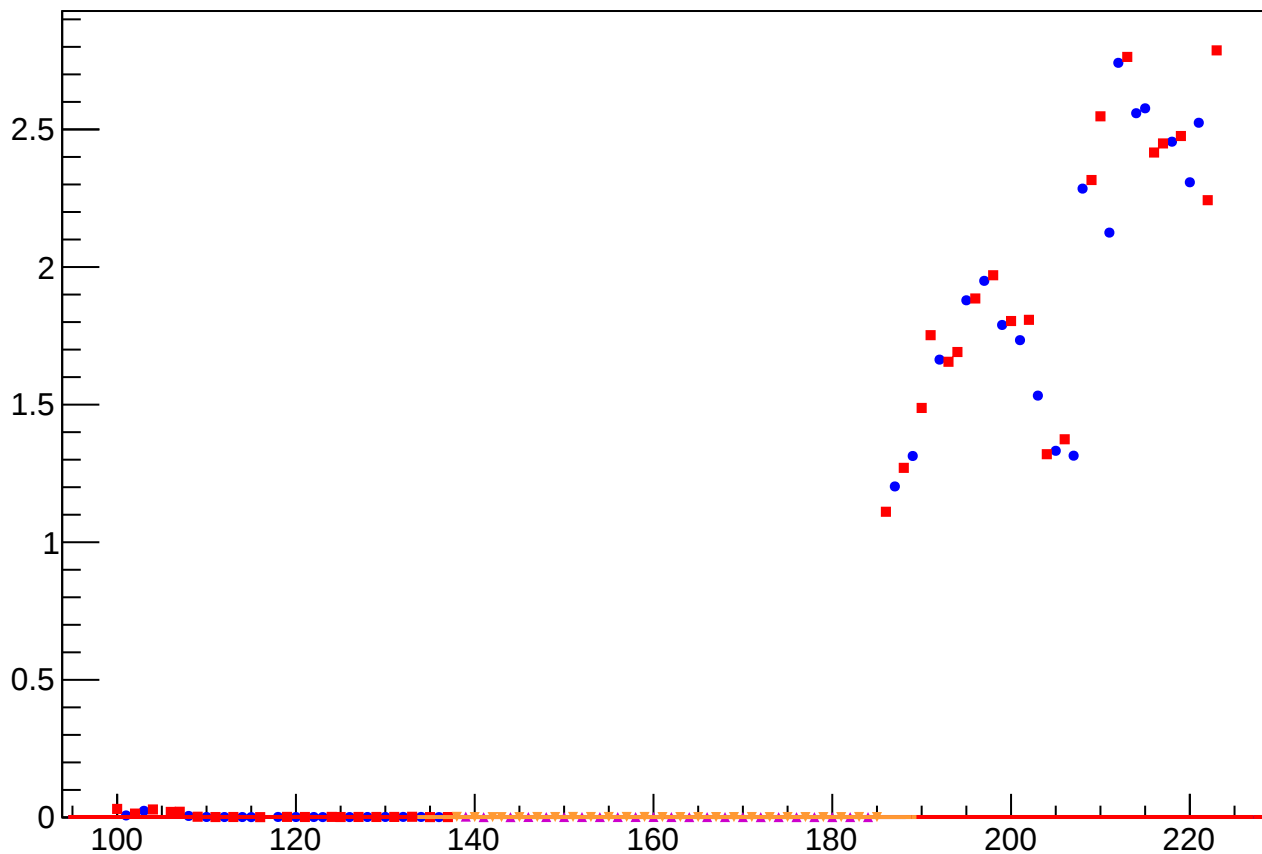
Out: 0.000 ± 0.000

χ^2/NDF : 3200670415.1/63

All: 0.000 ± 0.000

χ^2/NDF : 13111544617.9/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 27566077.9/34

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 29331142.6/38

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

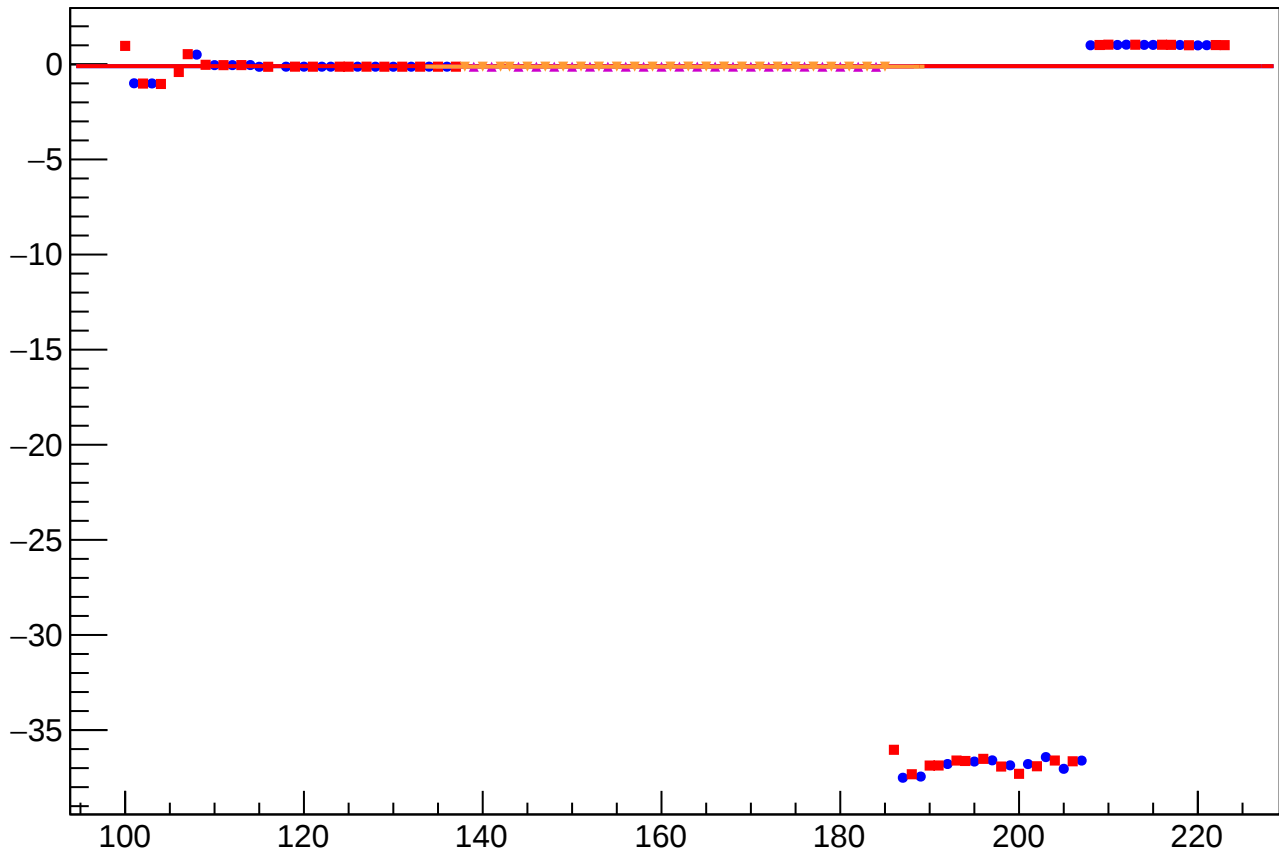
Right: 0.002+/-0.000 χ^2/NDF : 56905744.5/73

In: 0.002+/-0.000 χ^2/NDF : 28244998.5/57

Out: 0.002+/-0.000 χ^2/NDF : 30011897.5/63

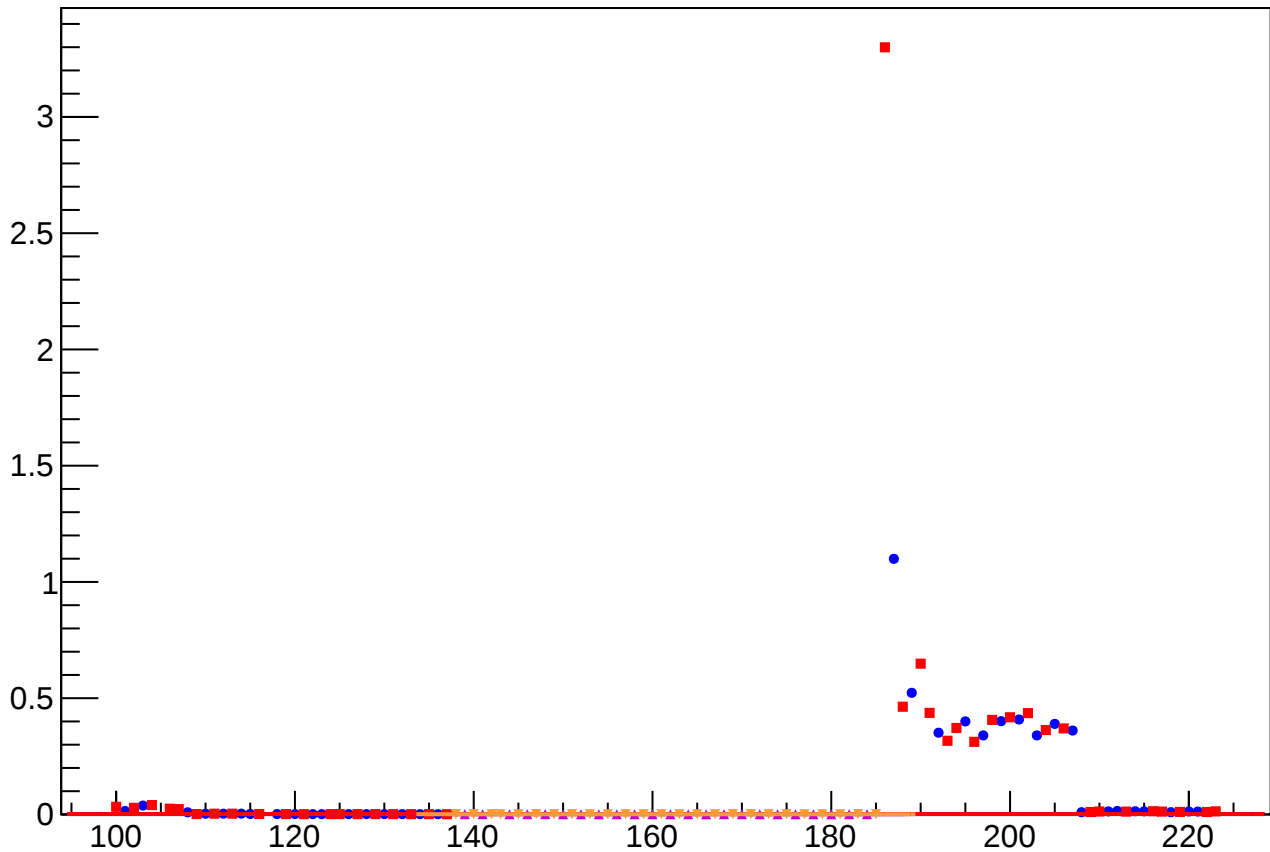
All: 0.002+/-0.000 χ^2/NDF : 58257814.9/121

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.099+/-0.000	χ^2/NDF : 114397147717.2/34	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.096+/-0.000	χ^2/NDF : 231484112135.4/73
Right Out: -0.094+/-0.000	χ^2/NDF : 117064583790.6/38	In: -0.119+/-0.000	χ^2/NDF : 115316067081.0/57
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.118+/-0.000	χ^2/NDF : 118425665615.6/63
		All: -0.118+/-0.000	χ^2/NDF : 233742010197.5

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24706951.7/34

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 26401997.3/38

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

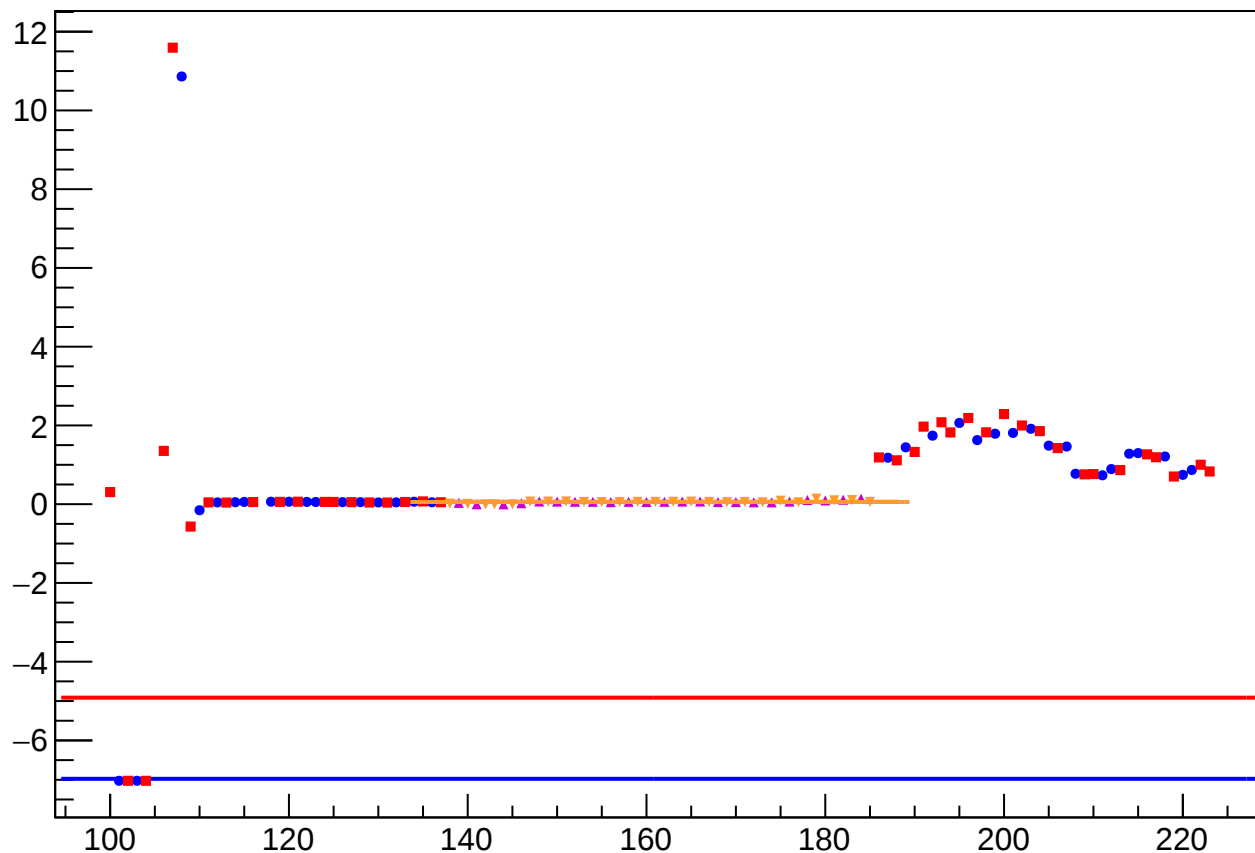
Right: 0.002+/-0.000 χ^2/NDF : 51109340.1/73

In: 0.001+/-0.000 χ^2/NDF :27877660.9/57

Out: 0.001+/-0.000 χ^2/NDF :29941316.8/63

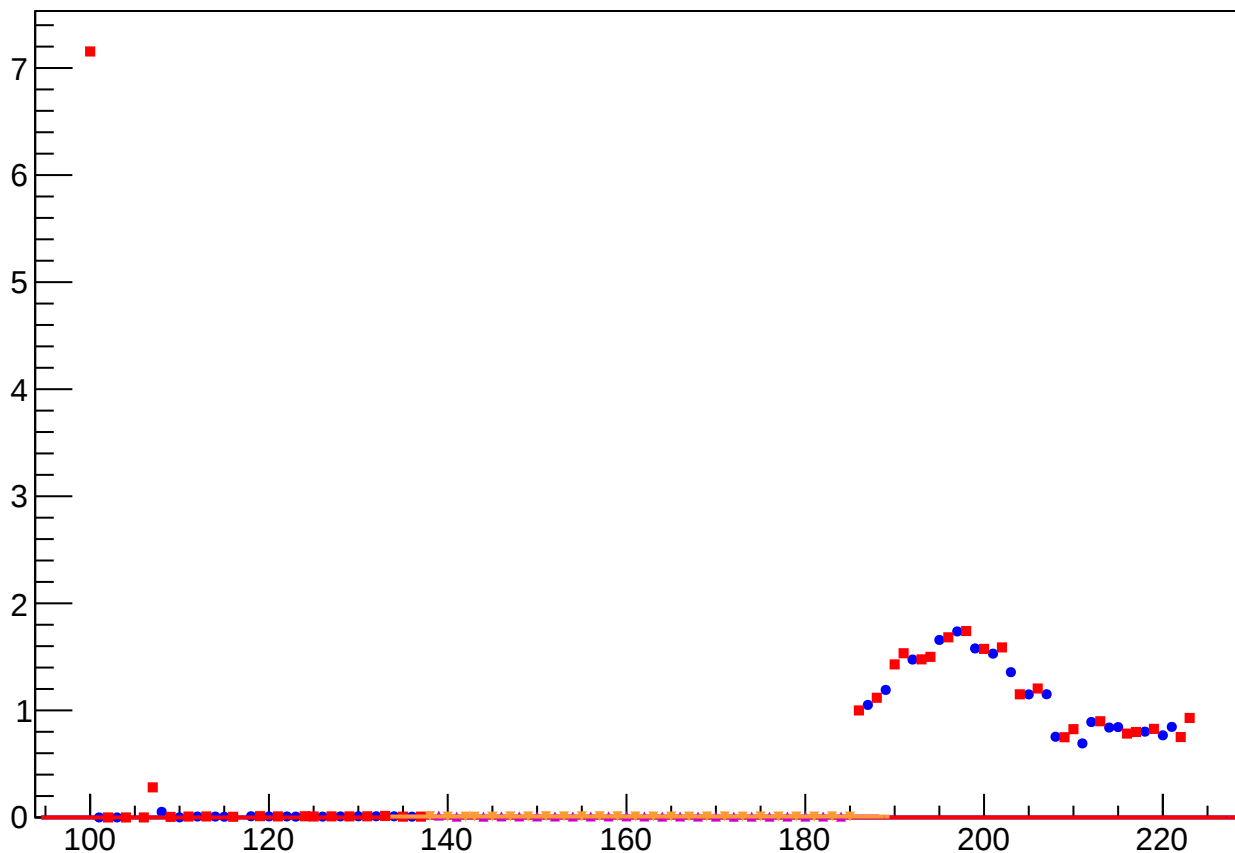
All: 0.001+/-0.000 χ^2/NDF : 57822532.1/121

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000	χ^2/NDF : 8798210752520.0/34	Left: 0.057+/-0.000	χ^2/NDF : 423736513.4/47
Left Out: 0.055+/-0.000	χ^2/NDF : 243682351.4/24	Right: -5.900+/-0.000	χ^2/NDF : 430334537829483.7
Right Out: -4.914+/-0.000	χ^2/NDF : 365353122858620.5/38	In: -6.926+/-0.000	χ^2/NDF : 17553720959508.4/57
Left In: 0.059+/-0.000	χ^2/NDF : 178541521.9/22	Out: -4.879+/-0.000	χ^2/NDF : 370165682292148.8/
		All: -5.858+/-0.000	χ^2/NDF : 4435298173502

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34021102.8/34

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35123824.1/38

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

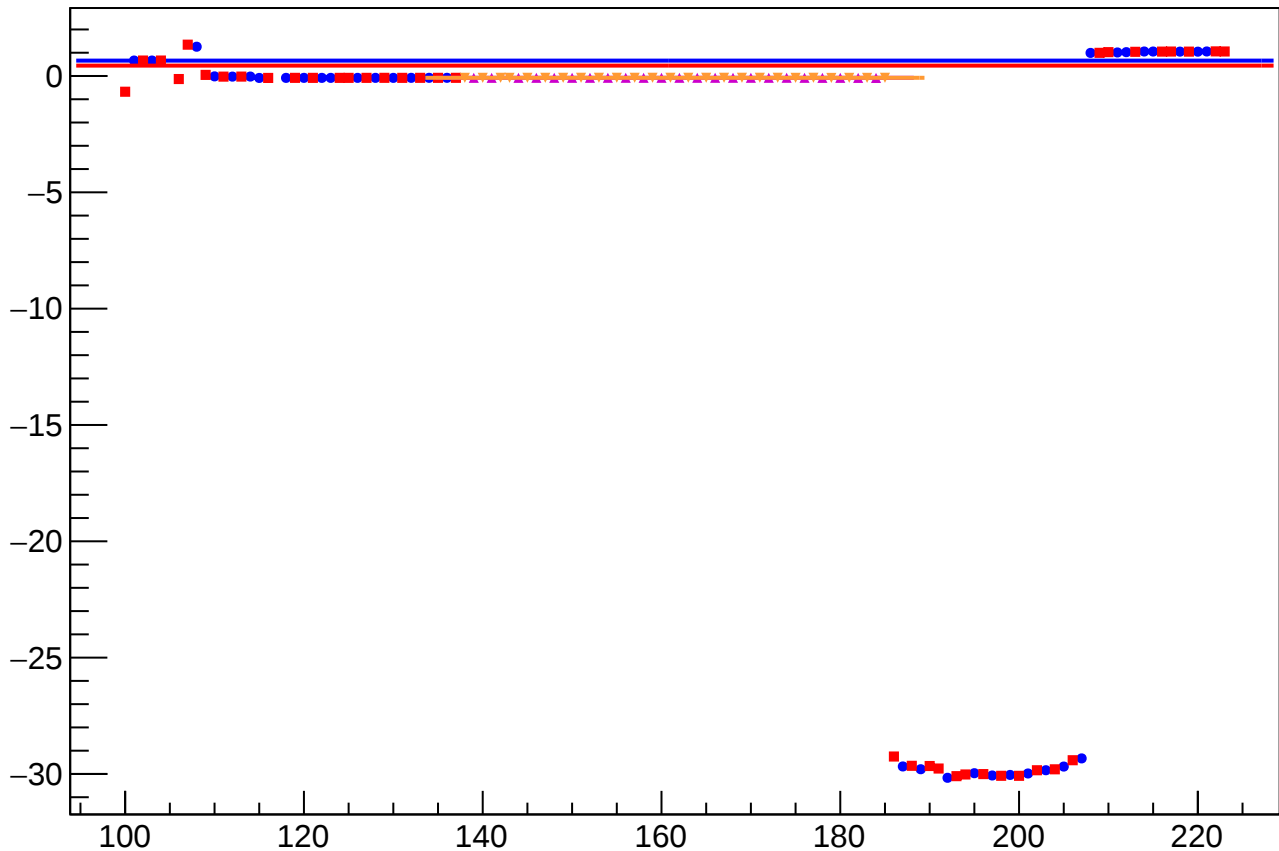
Right: 0.000+/-0.000 χ^2/NDF : 69145285.8/73

In: 0.000+/-0.000 χ^2/NDF : 61437085.5/57

Out: 0.000+/-0.000 χ^2/NDF : 64066168.3/63

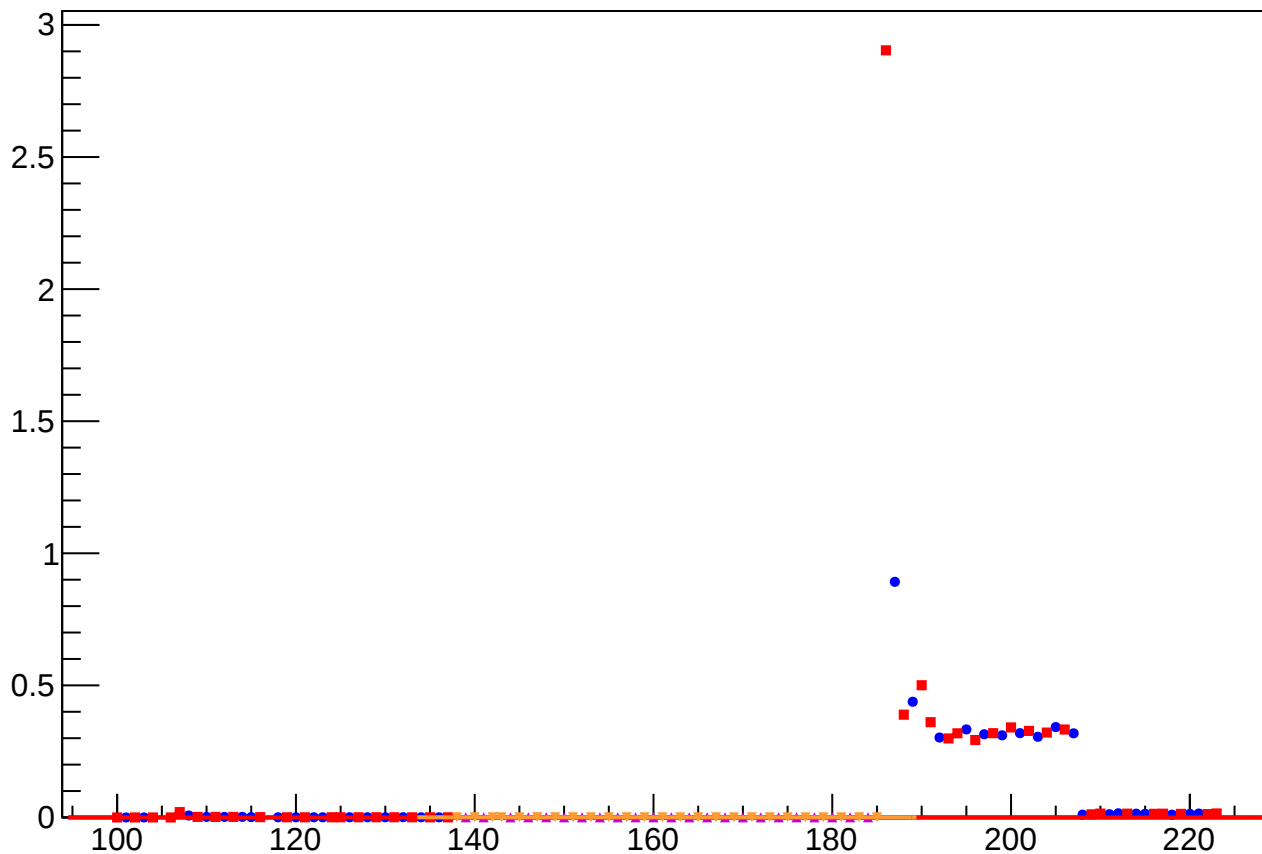
All: 0.000+/-0.000 χ^2/NDF : 125503731.2/121

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5723997724419.7/34	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 : 474138054681743.3
Right Out: 0.446+/-0.000	χ^2/NDF : 405500724336944.8/38	In: 0.647+/-0.000	χ^2/NDF : 33765054987121.5/57
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420662155184409.7/6
		All: 0.537+/-0.000	χ^2/NDF : 51598320483843

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 35206865.4/34

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35617565.1/38

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

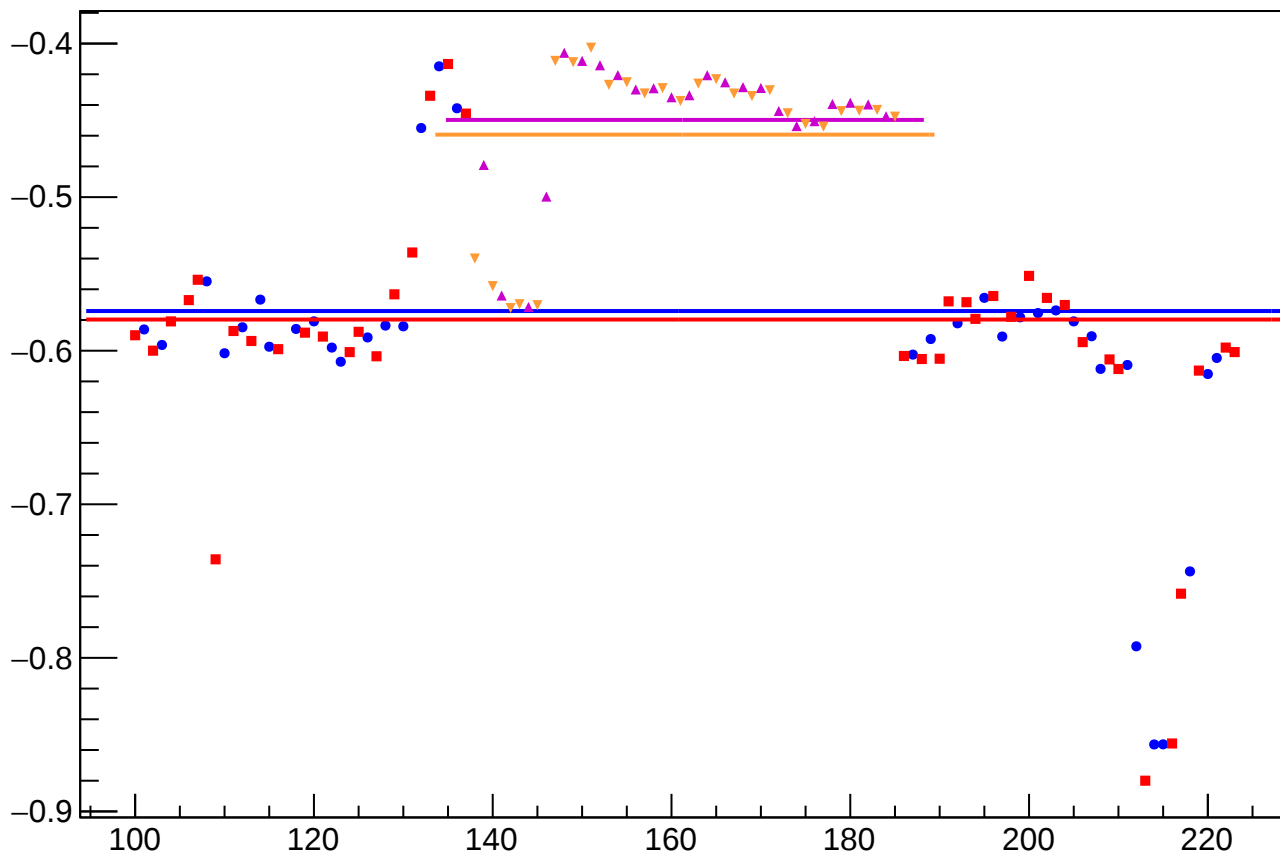
Right: 0.000+/-0.000 χ^2/NDF : 70824461.4/73

In: 0.000+/-0.000 χ^2/NDF :65920248.6/57

Out: 0.000+/-0.000 χ^2/NDF :68222175.6/63

All: 0.000+/-0.000 χ^2/NDF : 134142820.5/121

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574+/-0.000 χ^2 /NDF: 115340938.5/34

Left Out: -0.459+/-0.000 χ^2 /NDF:113602161.0/24

Right Out: -0.580+/-0.000 χ^2 /NDF: 120283792.3/38

Left In: -0.450+/-0.000 χ^2 /NDF:76117957.8/22

Left: -0.455+/-0.000 χ^2 /NDF: 191493218.8/47

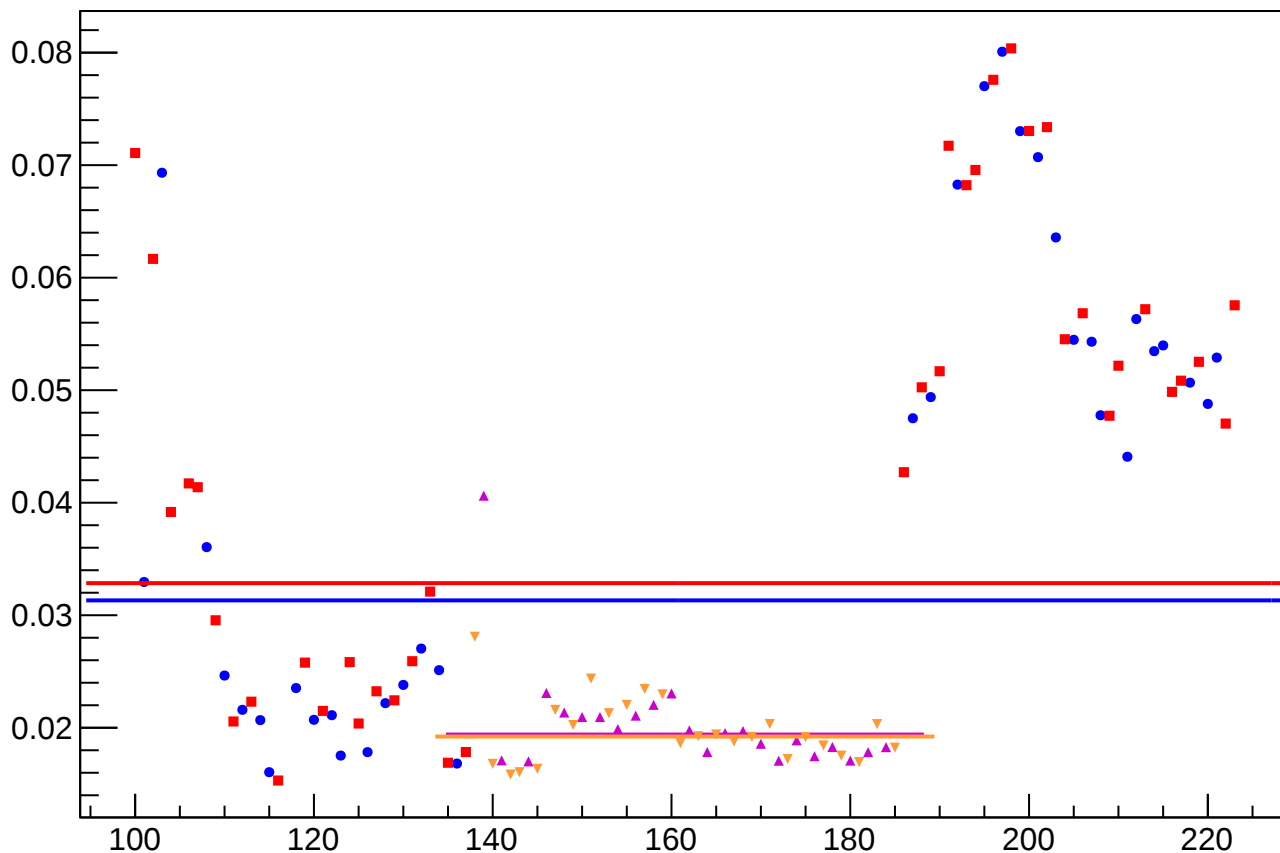
Right: -0.577+/-0.000 χ^2 /NDF: 235842869.2/73

In: -0.485+/-0.000 χ^2 /NDF:353305116.7/57

Out: -0.490+/-0.000 χ^2 /NDF:383755243.0/63

All: -0.488+/-0.000 χ^2 /NDF: 737864738.9/12

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8303150.2/34

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.033+/-0.000 χ^2/NDF : 8087861.9/38

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

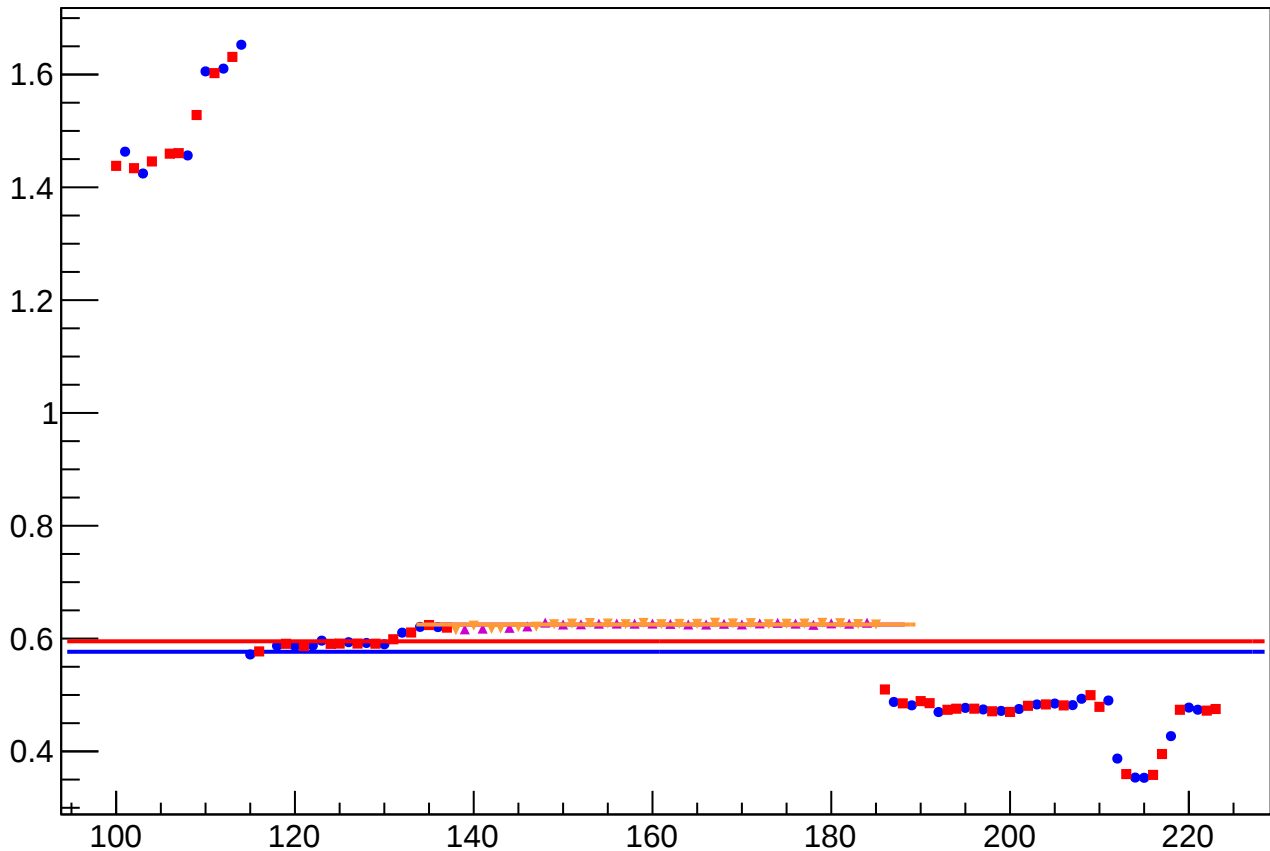
Right: 0.032+/-0.000 χ^2/NDF : 16424438.4/73

In: 0.023+/-0.000 χ^2/NDF : 11901840.5/57

Out: 0.023+/-0.000 χ^2/NDF : 12432592.2/63

All: 0.023+/-0.000 χ^2/NDF : 24334466.1/121

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.577 $\pm$ 0.000 χ^2 /NDF: 5642233339.9/34

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.595 $\pm$ 0.000 χ^2 /NDF: 6686897146.2/38

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

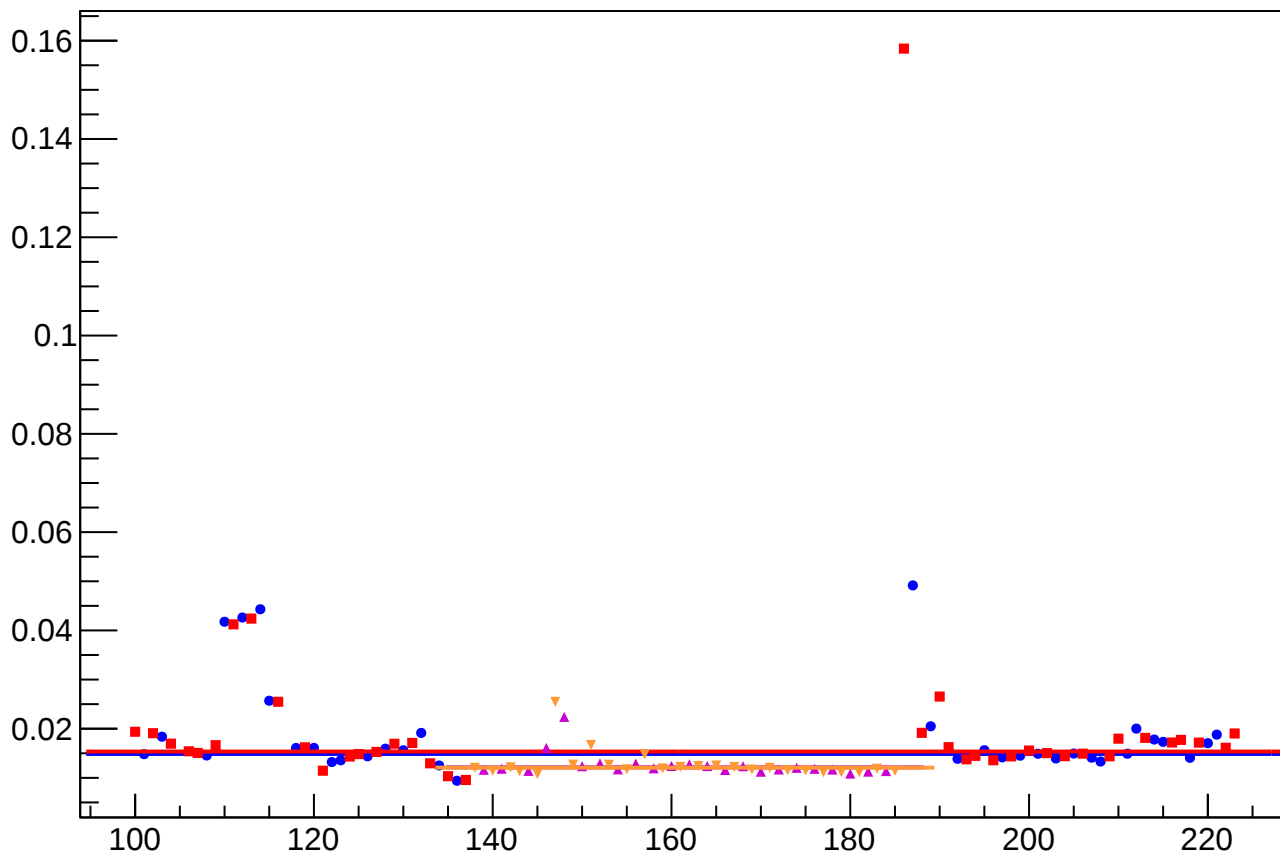
Right: 0.586 $\pm$ 0.000 χ^2 /NDF: 12342909557.1/73

In: 0.605 $\pm$ 0.000 χ^2 /NDF:5753633568.7/57

Out: 0.613 $\pm$ 0.000 χ^2 /NDF:6730612144.8/63

All: 0.609 $\pm$ 0.000 χ^2 /NDF: 12491425413.2/122

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1954980.3/34

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2261953.3/38

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

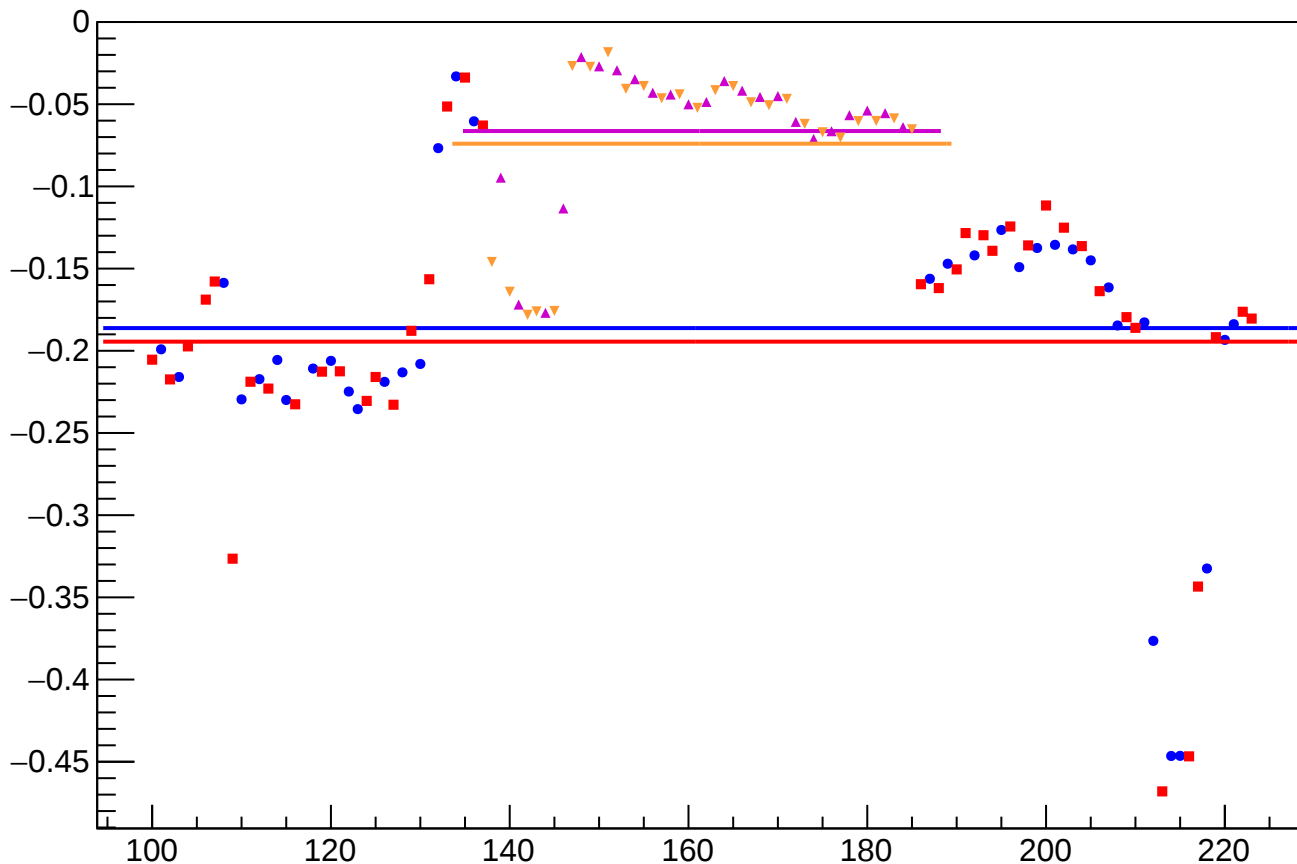
Right: 0.015+/-0.000 χ^2/NDF : 4235601.6/73

In: 0.013+/-0.000 χ^2/NDF : 3152418.2/57

Out: 0.013+/-0.000 χ^2/NDF : 3947317.6/63

All: 0.013+/-0.000 χ^2/NDF : 7101148.0/121

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2/NDF : 127720527.3/34

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.194+/-0.000 χ^2/NDF : 134594415.2/38

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

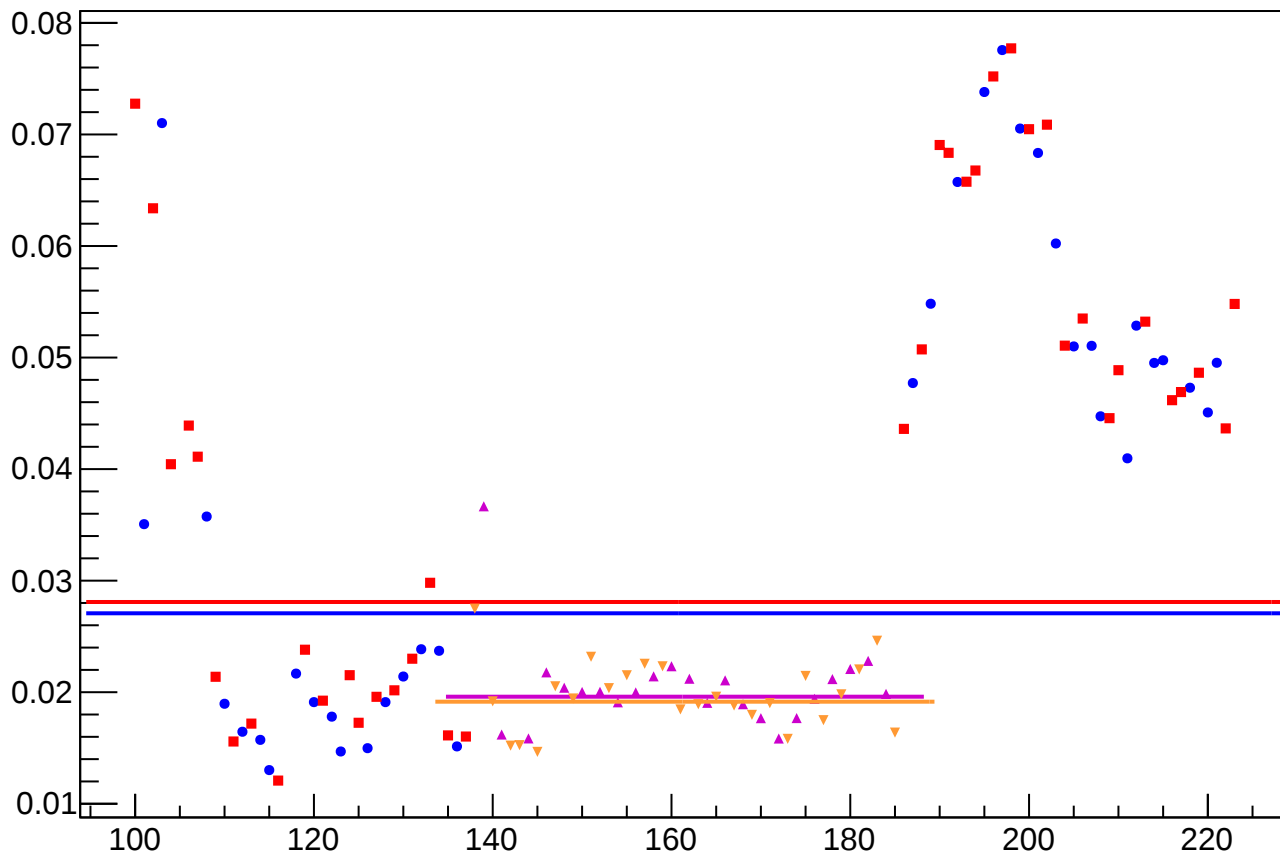
Right: -0.190+/-0.000 χ^2/NDF : 262933159.6/73

In: -0.106+/-0.000 χ^2/NDF : 381330333.9/57

Out: -0.111+/-0.000 χ^2/NDF : 423004471.6/63

All: -0.108+/-0.000 χ^2/NDF : 804875678.9/12

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 9764883.5/34

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9939861.3/38

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:623148.2/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1272240.9/47

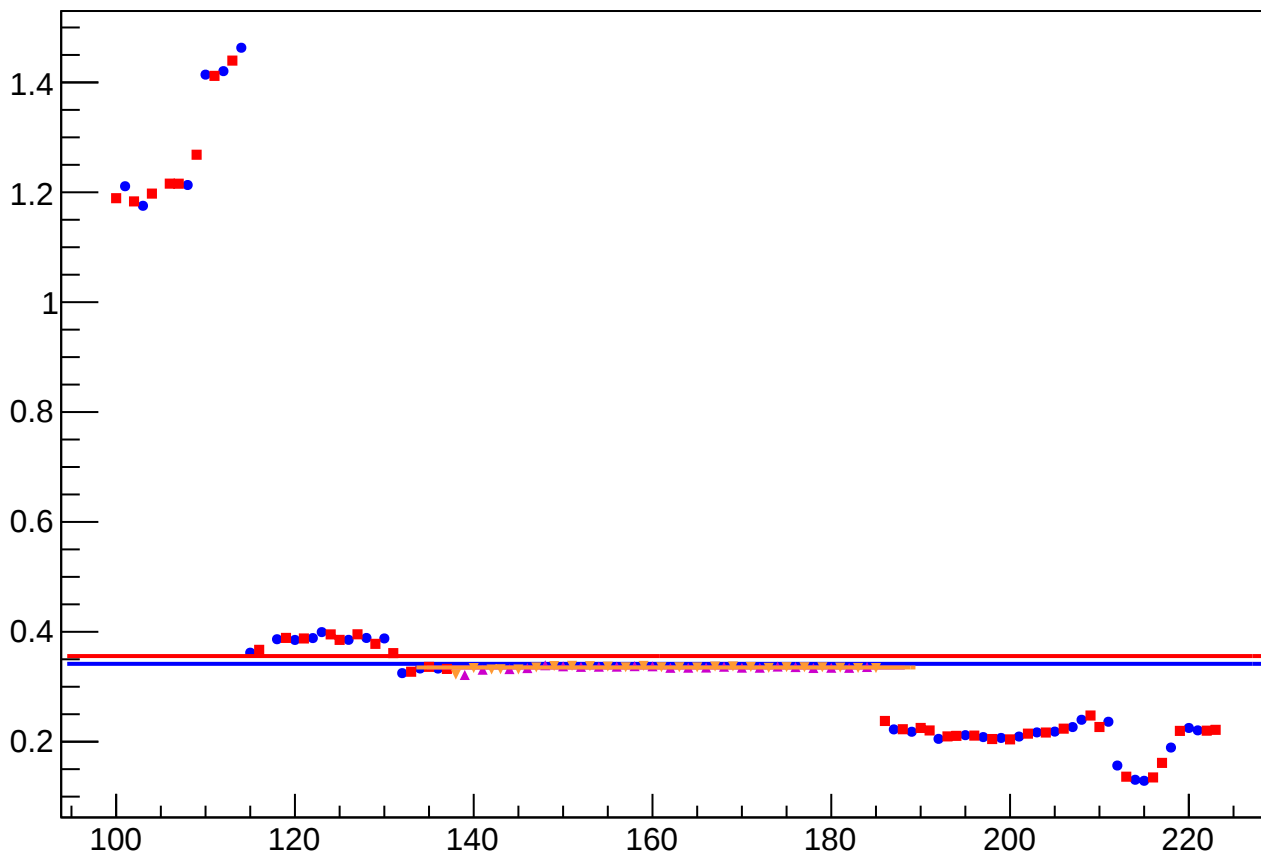
Right: 0.028 $\pm$ 0.000 χ^2 /NDF: 19723417.5/73

In: 0.022 $\pm$ 0.000 χ^2 /NDF:11768152.1/57

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:12572585.2/63

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 24343617.9/121

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.342 $\pm$ 0.000 χ^2 /NDF: 8131379959.2/34

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1154310.3/24

Right Out: 0.356 $\pm$ 0.000 χ^2 /NDF: 9218046726.9/38

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

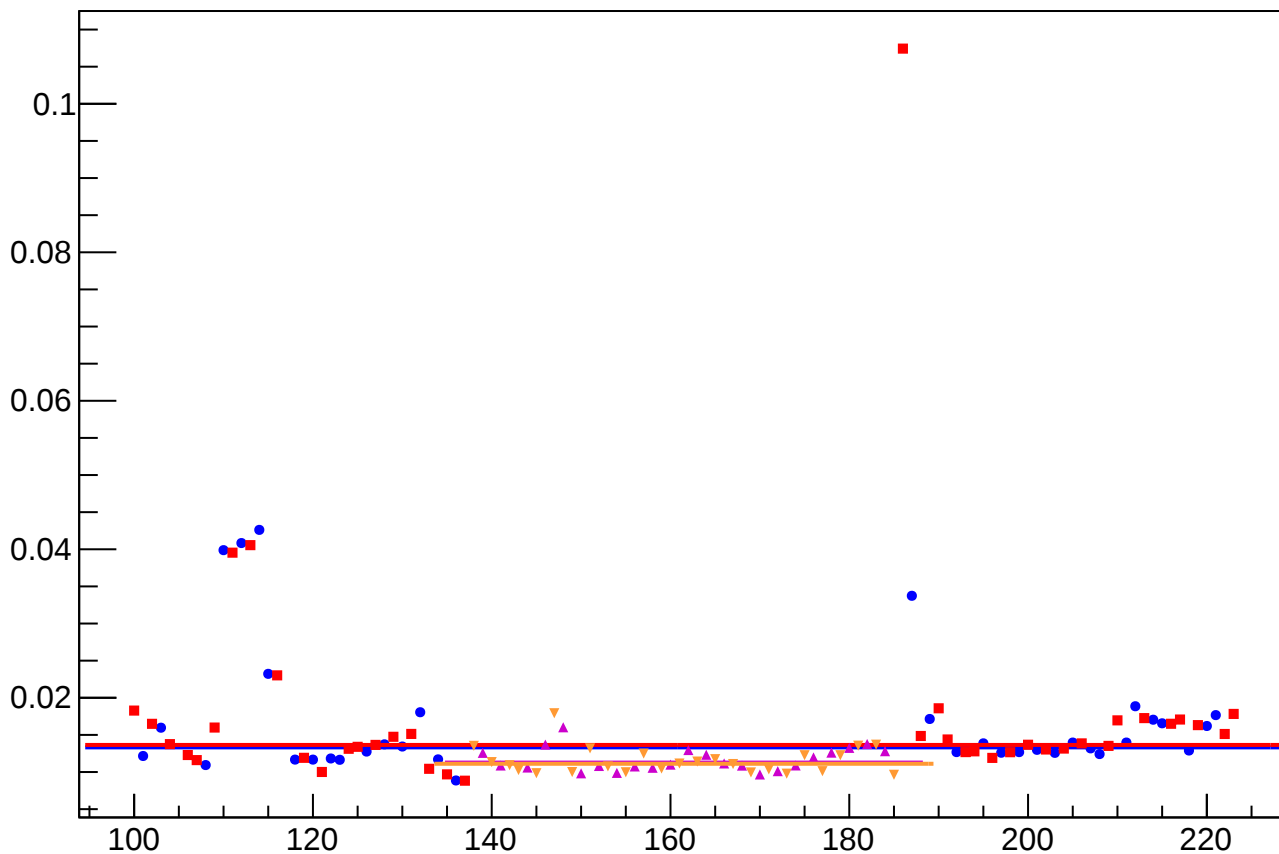
Right: 0.349 $\pm$ 0.000 χ^2 /NDF: 17359458266.1/73

In: 0.338 $\pm$ 0.000 χ^2 /NDF:8135126062.8/57

Out: 0.344 $\pm$ 0.000 χ^2 /NDF:9244307016.9/63

All: 0.341 $\pm$ 0.000 χ^2 /NDF: 17383259726.0/130

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1992608.1/34

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2310833.1/38

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

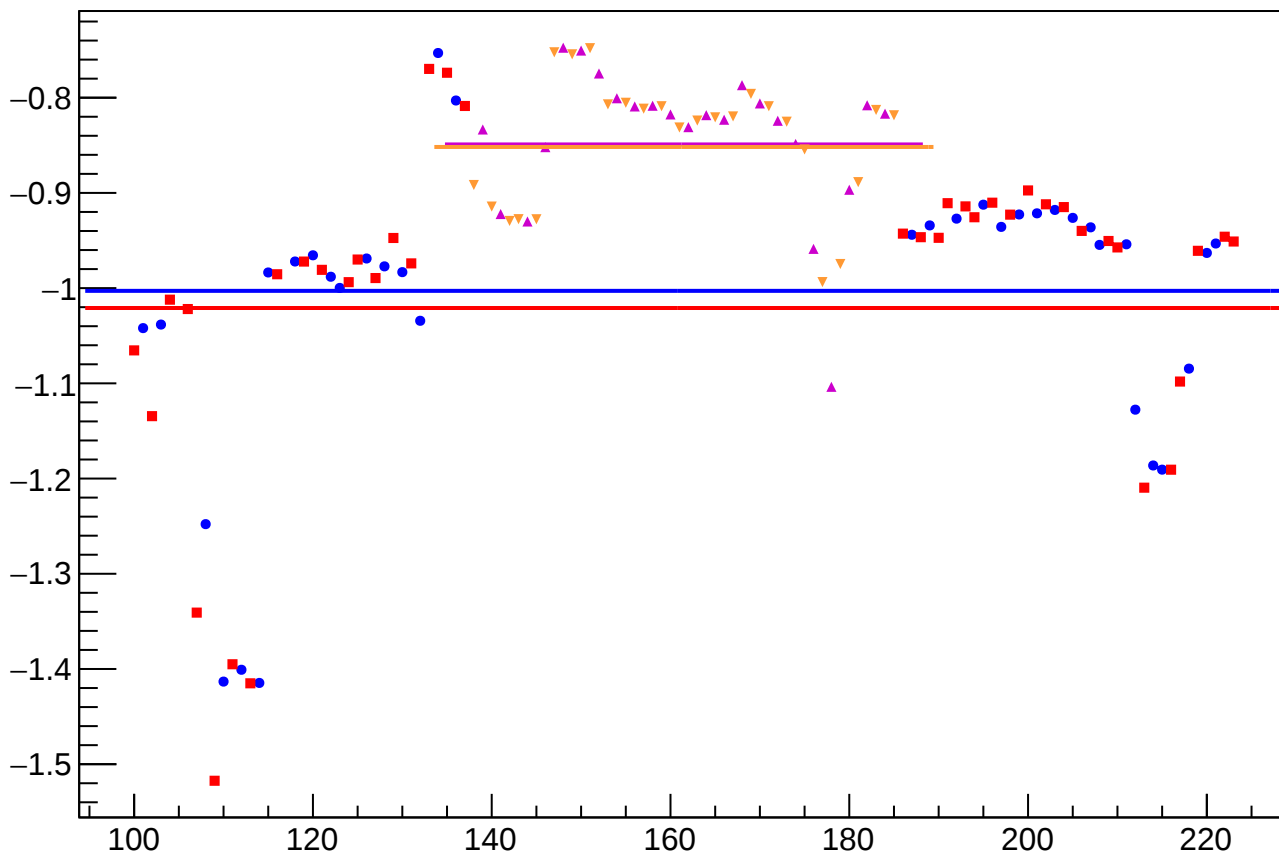
Right: 0.013+/-0.000 χ^2/NDF : 4314329.5/73

In: 0.012+/-0.000 χ^2/NDF : 2971425.0/57

Out: 0.012+/-0.000 χ^2/NDF : 3667622.0/63

All: 0.012+/-0.000 χ^2/NDF : 6639085.2/121

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003 ± 0.000 $\chi^2/\text{NDF}: 430650980.5/34$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.021 ± 0.000 $\chi^2/\text{NDF}: 581995243.4/38$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

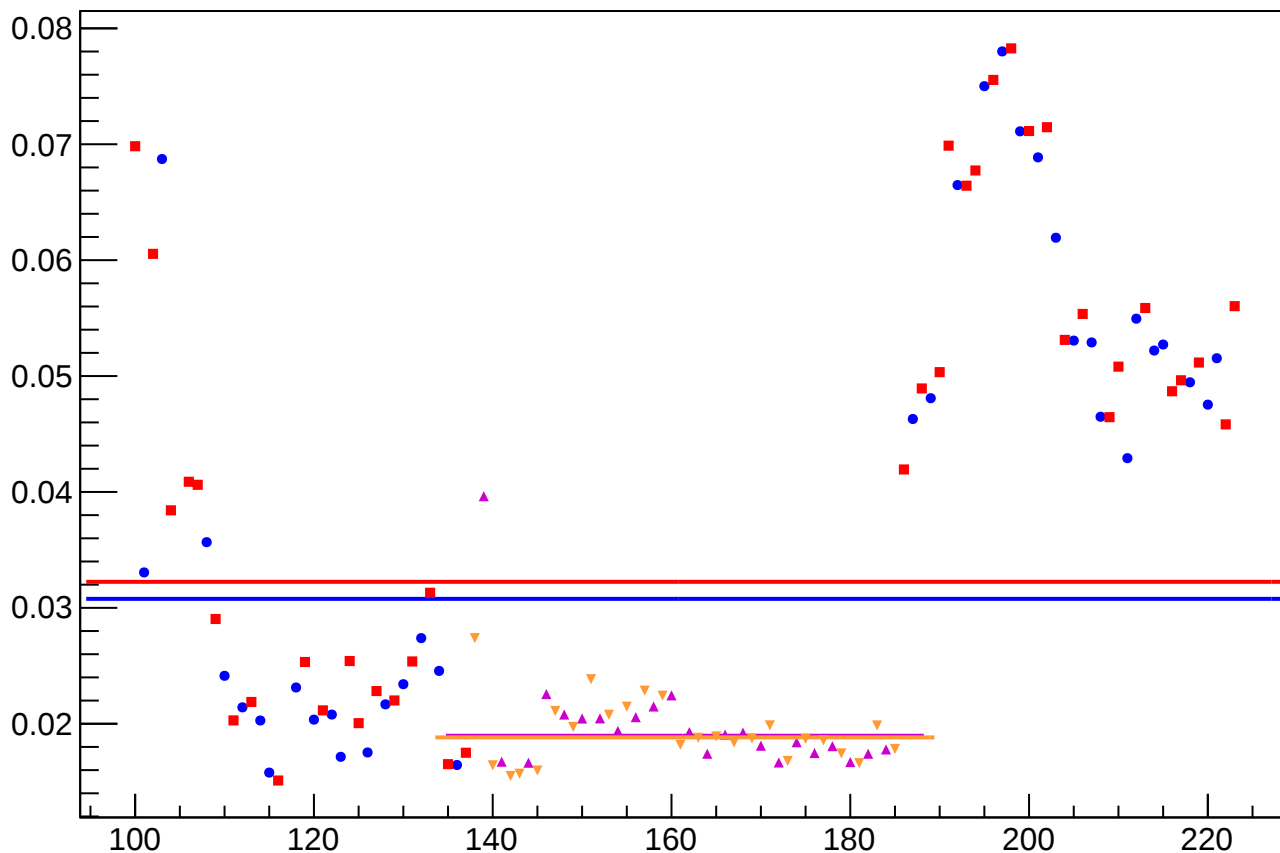
Right: -1.012 ± 0.000 $\chi^2/\text{NDF}: 1015046629.9/73$

In: -0.892 ± 0.000 $\chi^2/\text{NDF}: 944243331.4/57$

Out: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1078932301.7/63$

All: -0.894 ± 0.000 $\chi^2/\text{NDF}: 2023430477.0/100$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8219757.6/34

Left Out: 0.019+/-0.000 χ^2/NDF :490509.4/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7988712.6/38

Left In: 0.019+/-0.000 χ^2/NDF :615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

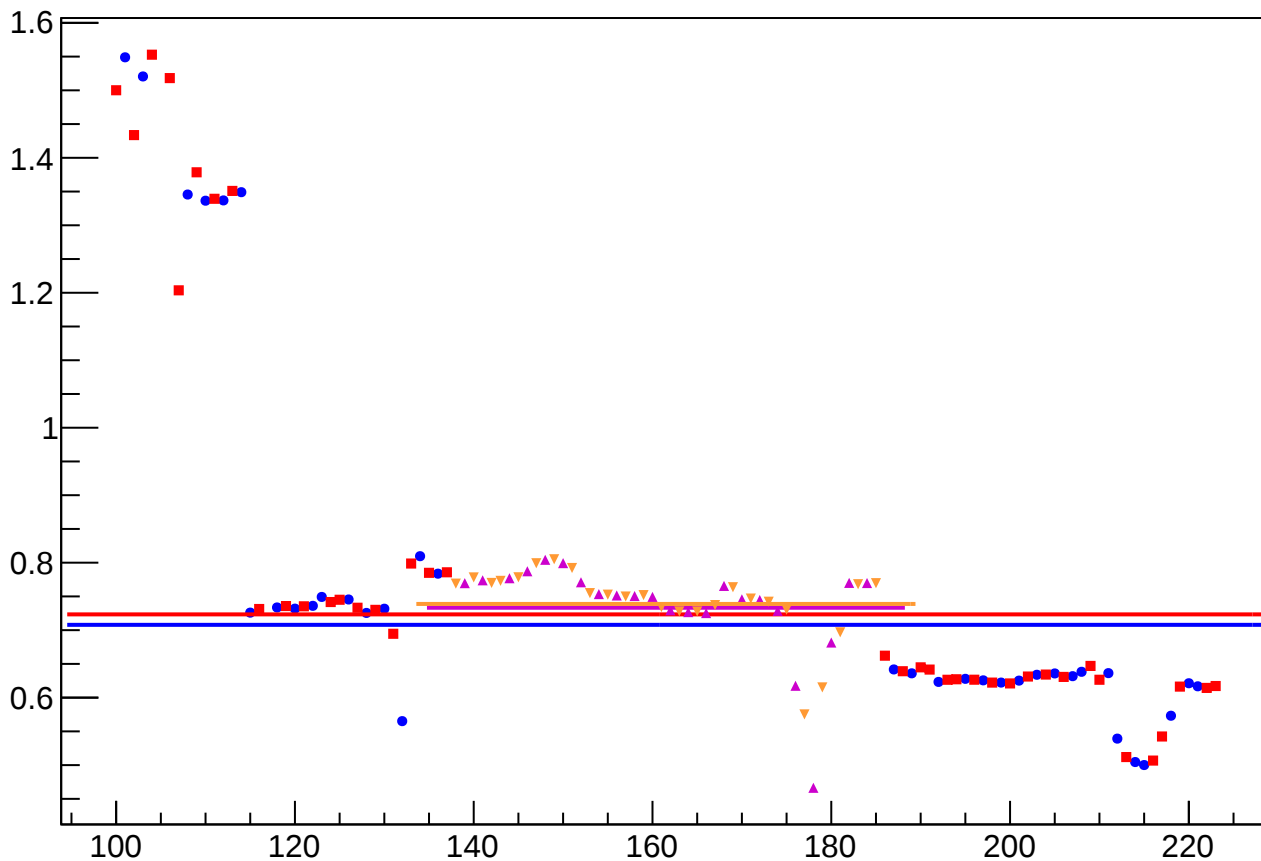
Right: 0.031+/-0.000 χ^2/NDF : 16240413.1/73

In: 0.022+/-0.000 χ^2/NDF :11869337.9/57

Out: 0.022+/-0.000 χ^2/NDF :12357514.5/63

All: 0.022+/-0.000 χ^2/NDF : 24226852.8/121

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.708 $\pm$ 0.000 χ^2 /NDF: 3945119288.1/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.723 $\pm$ 0.000 χ^2 /NDF: 4268433517.5/38

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

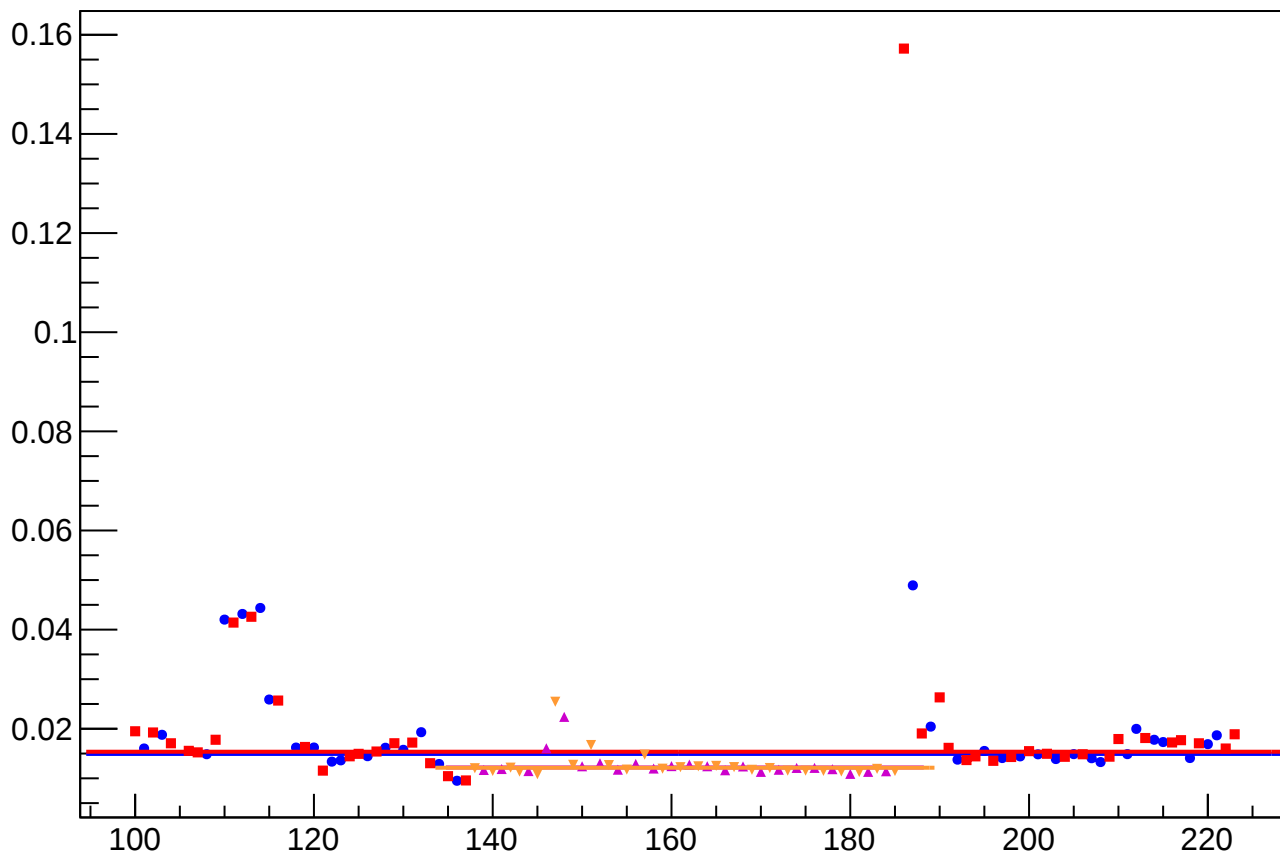
Right: 0.716 $\pm$ 0.000 χ^2 /NDF: 8223117846.4/73

In: 0.723 $\pm$ 0.000 χ^2 /NDF:4544920812.8/57

Out: 0.733 $\pm$ 0.000 χ^2 /NDF:4612801563.1/63

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 9167700228.4/12

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1939261.6/34

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2257858.3/38

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

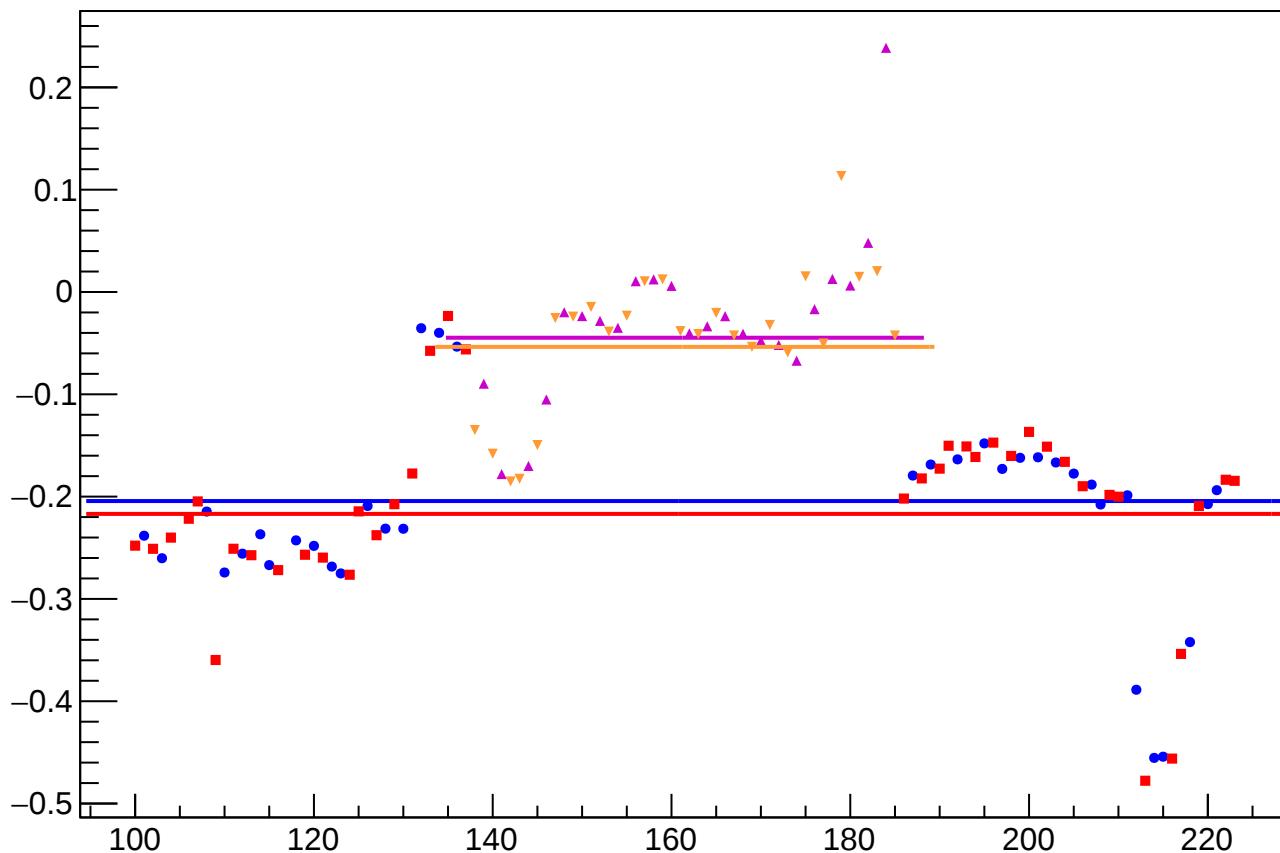
Right: 0.015+/-0.000 χ^2/NDF : 4212963.7/73

In: 0.013+/-0.000 χ^2/NDF : 3122136.0/57

Out: 0.013+/-0.000 χ^2/NDF : 3883502.3/63

All: 0.013+/-0.000 χ^2/NDF : 7007061.4/121

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160452168.4/34$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.217 ± 0.000 $\chi^2/\text{NDF}: 156847924.2/38$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

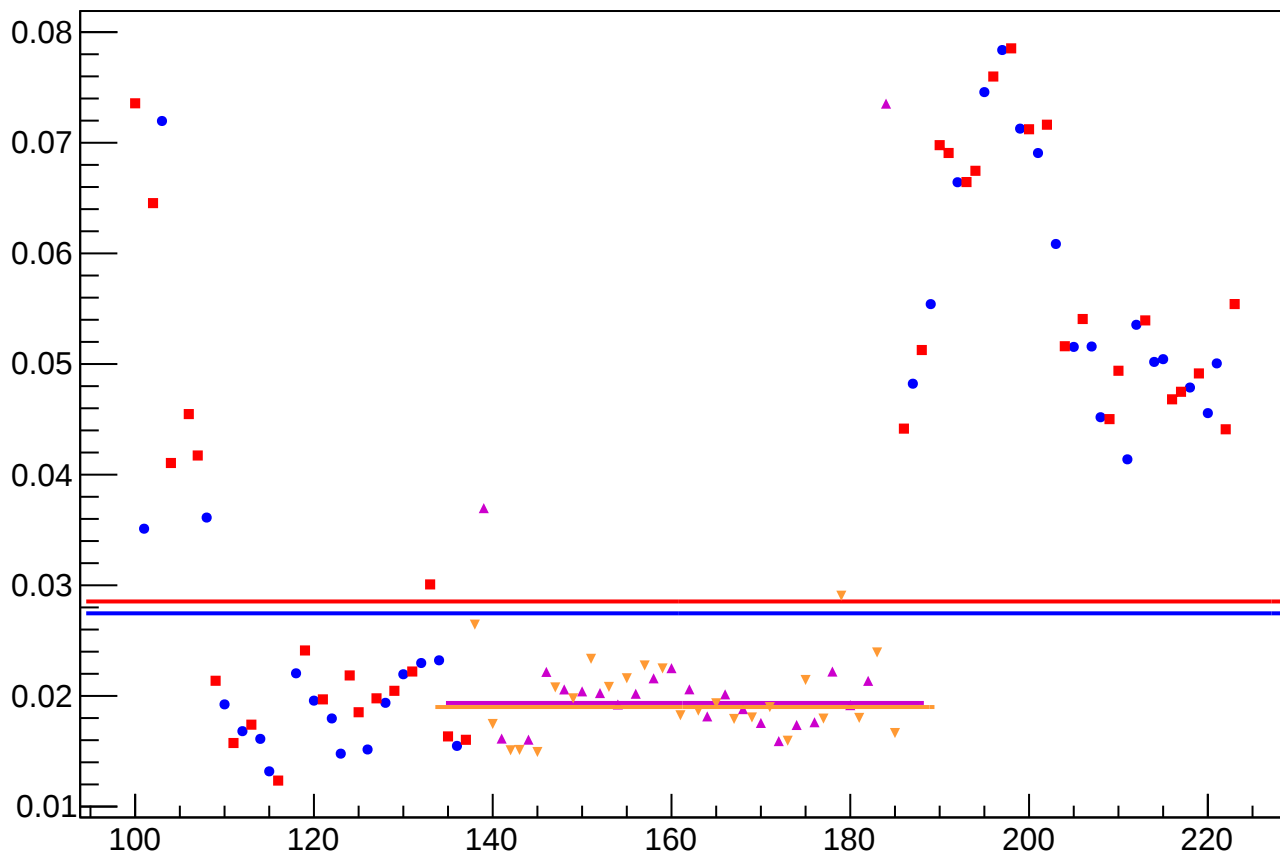
Right: -0.210 ± 0.000 $\chi^2/\text{NDF}: 318694439.6/73$

In: -0.097 ± 0.000 $\chi^2/\text{NDF}: 596067305.4/57$

Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 648385438.5/63$

All: -0.100 ± 0.000 $\chi^2/\text{NDF}: 1245338436.1/111$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9693347.3/34

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.029+/-0.000 χ^2/NDF : 9868715.2/38

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

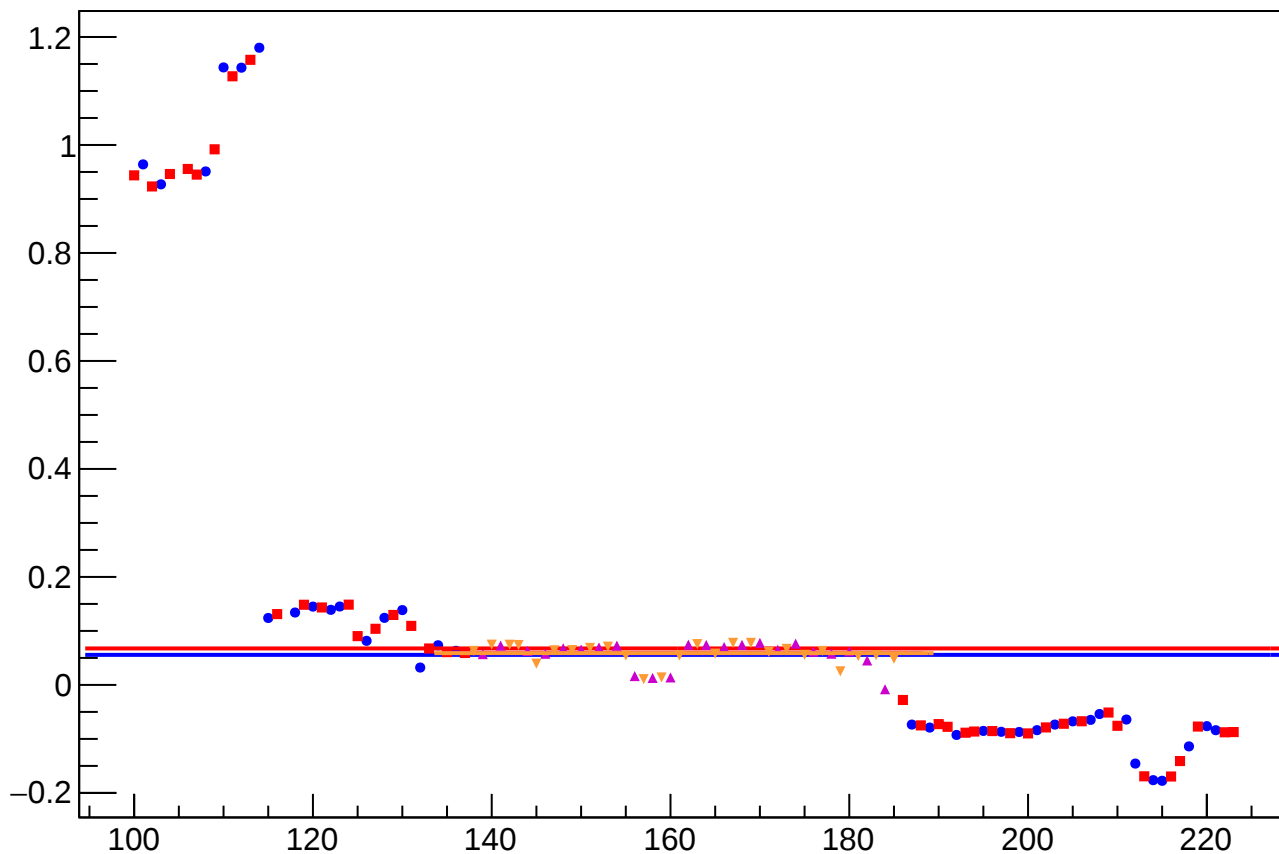
Right: 0.028+/-0.000 χ^2/NDF : 19582383.5/73

In: 0.022+/-0.000 χ^2/NDF : 12140381.1/57

Out: 0.022+/-0.000 χ^2/NDF : 12780746.0/63

All: 0.022+/-0.000 χ^2/NDF : 24922573.9/121

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000 χ^2/NDF : 8907225258.9/34

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.068+/-0.000 χ^2/NDF : 9831798479.1/38

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

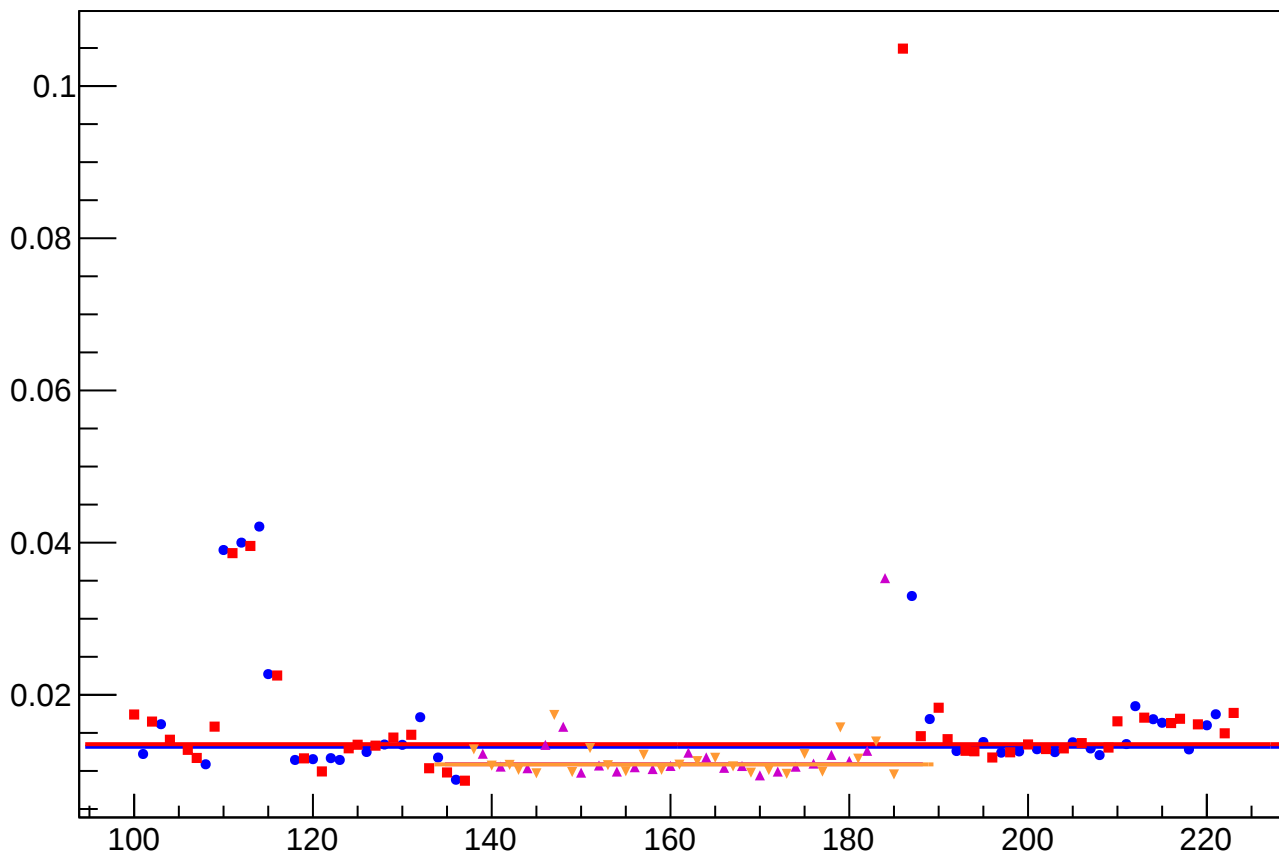
Right: 0.062+/-0.000 χ^2/NDF : 18746244789.2/73

In: 0.058+/-0.000 χ^2/NDF : 8966432454.5/57

Out: 0.062+/-0.000 χ^2/NDF : 9883107932.2/63

All: 0.060+/-0.000 χ^2/NDF : 18852366619.2/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1942974.2/34

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2247663.3/38

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

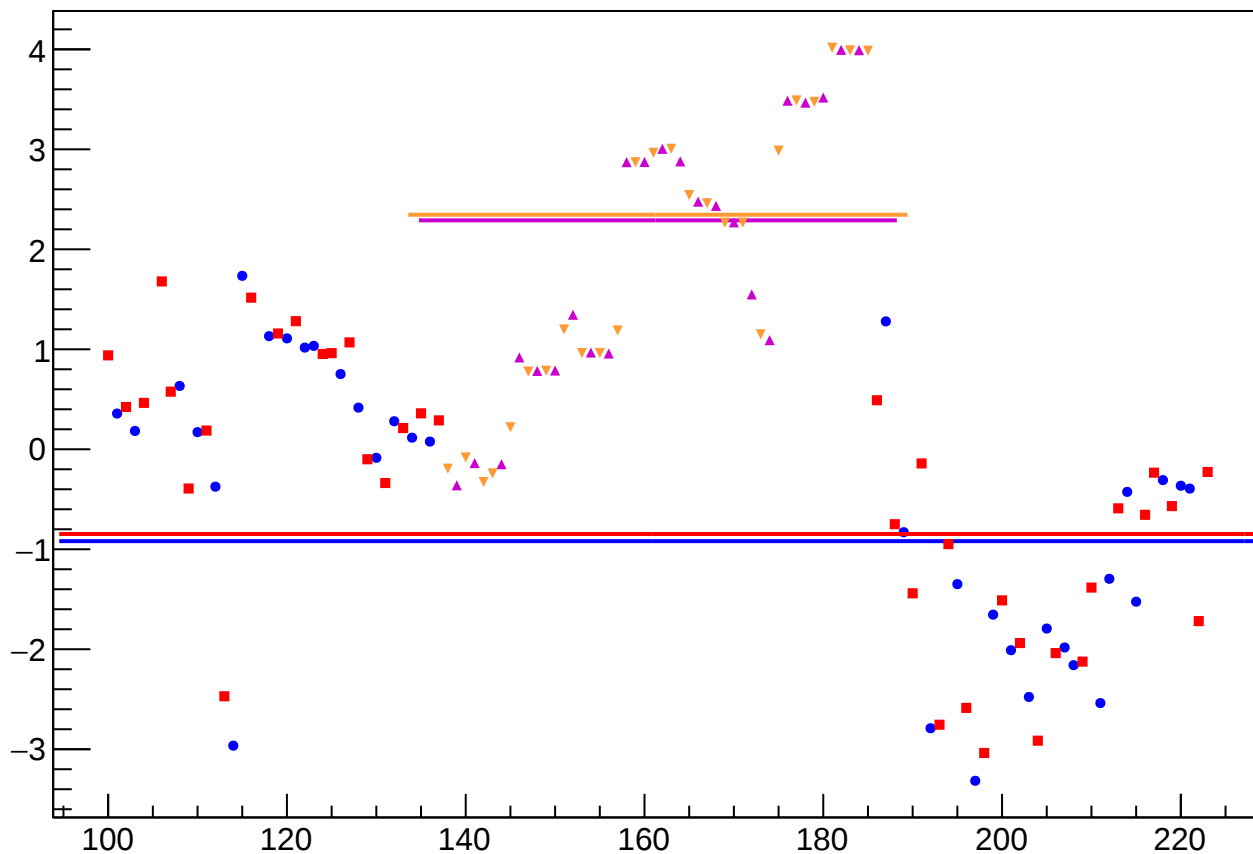
Right: 0.013+/-0.000 χ^2/NDF : 4202413.6/73

In: 0.012+/-0.000 χ^2/NDF : 3087540.6/57

Out: 0.012+/-0.000 χ^2/NDF : 3690123.9/63

All: 0.012+/-0.000 χ^2/NDF : 6779064.1/121

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.919 ± 0.000 χ^2/NDF : 8162481558.7/34

Left Out: 2.346 ± 0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.847 ± 0.000 χ^2/NDF : 8619494405.7/38

Left In: 2.290 ± 0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318 ± 0.000 χ^2/NDF : 124438674298.4/47

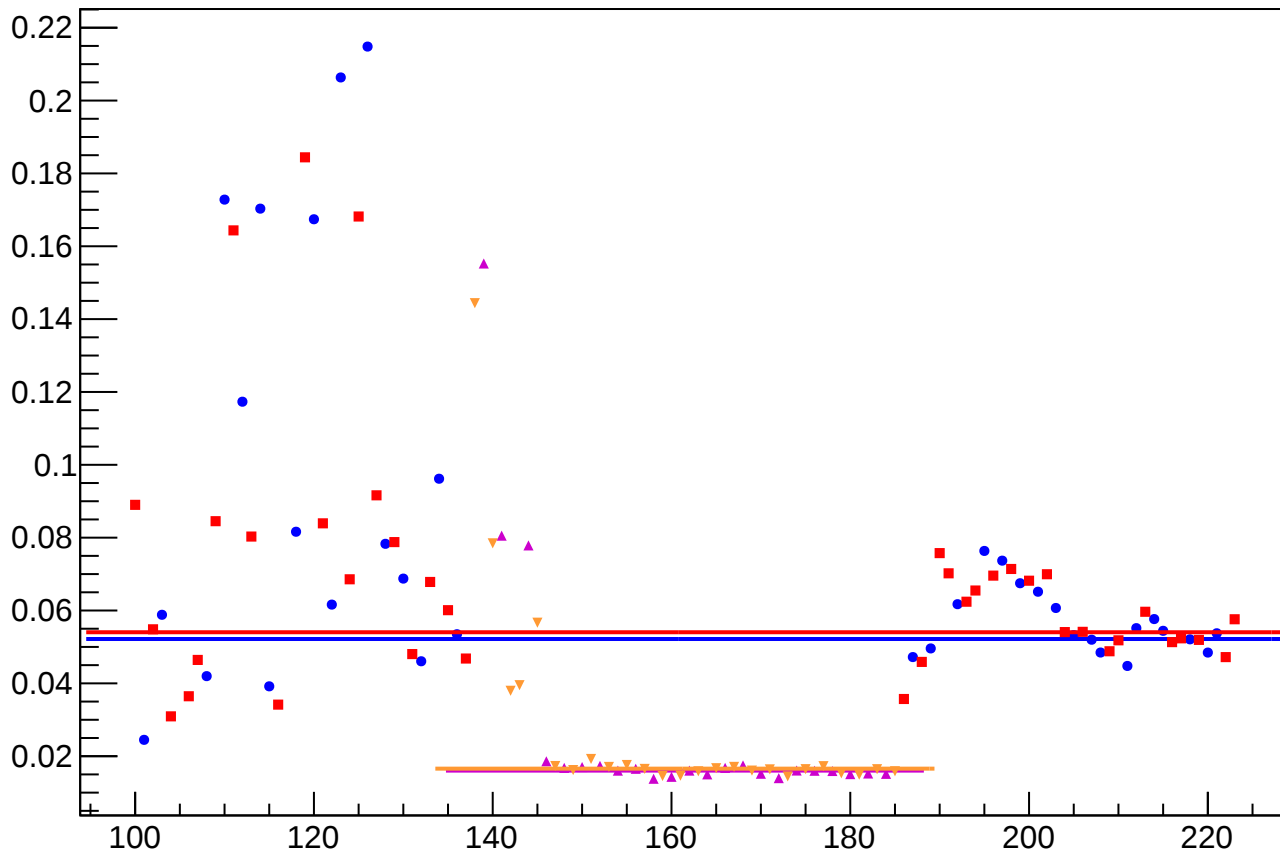
Right: -0.883 ± 0.000 χ^2/NDF : 16796693710.1/73

In: 1.968 ± 0.000 χ^2/NDF : 122548335194.4/57

Out: 2.025 ± 0.000 χ^2/NDF : 124293264408.9/63

All: 1.996 ± 0.000 χ^2/NDF : 246935425255.3

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3577420.6/34

Left Out: 0.017+/-0.000 χ^2/NDF :2621162.1/24

Right Out: 0.054+/-0.000 χ^2/NDF : 2921827.9/38

Left In: 0.016+/-0.000 χ^2/NDF :2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

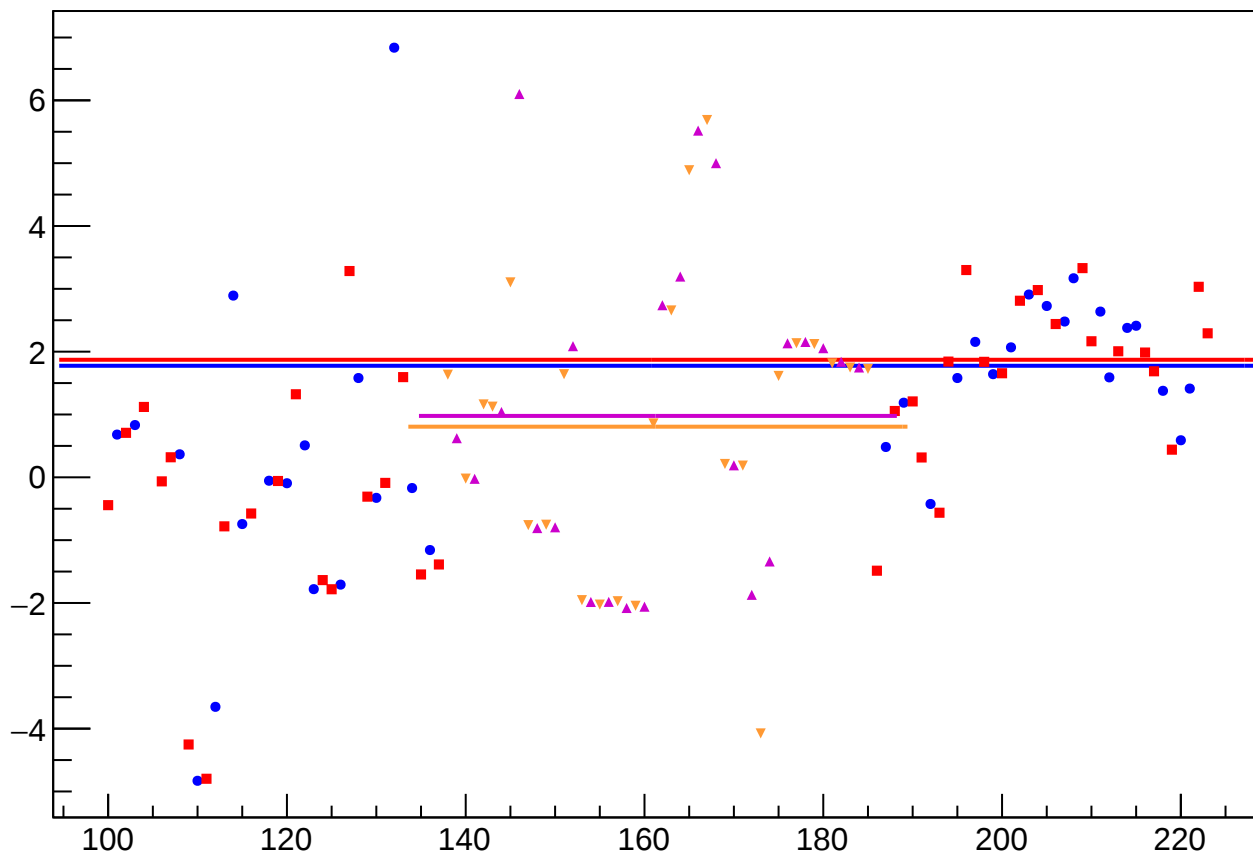
Right: 0.053+/-0.000 χ^2/NDF : 6518994.4/73

In: 0.020+/-0.000 χ^2/NDF :19543311.2/57

Out: 0.020+/-0.000 χ^2/NDF :19898705.3/63

All: 0.020+/-0.000 χ^2/NDF : 39468270.6/121

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.775+/-0.000

χ^2/NDF : 44007752801.4/34

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

Right: 1.823+/-0.000 χ^2/NDF : 92040791552.1/73

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

In: 1.224+/-0.000 χ^2/NDF : 628937722400.9/57

Right Out: 1.871+/-0.000

χ^2/NDF : 47862291015.8/38

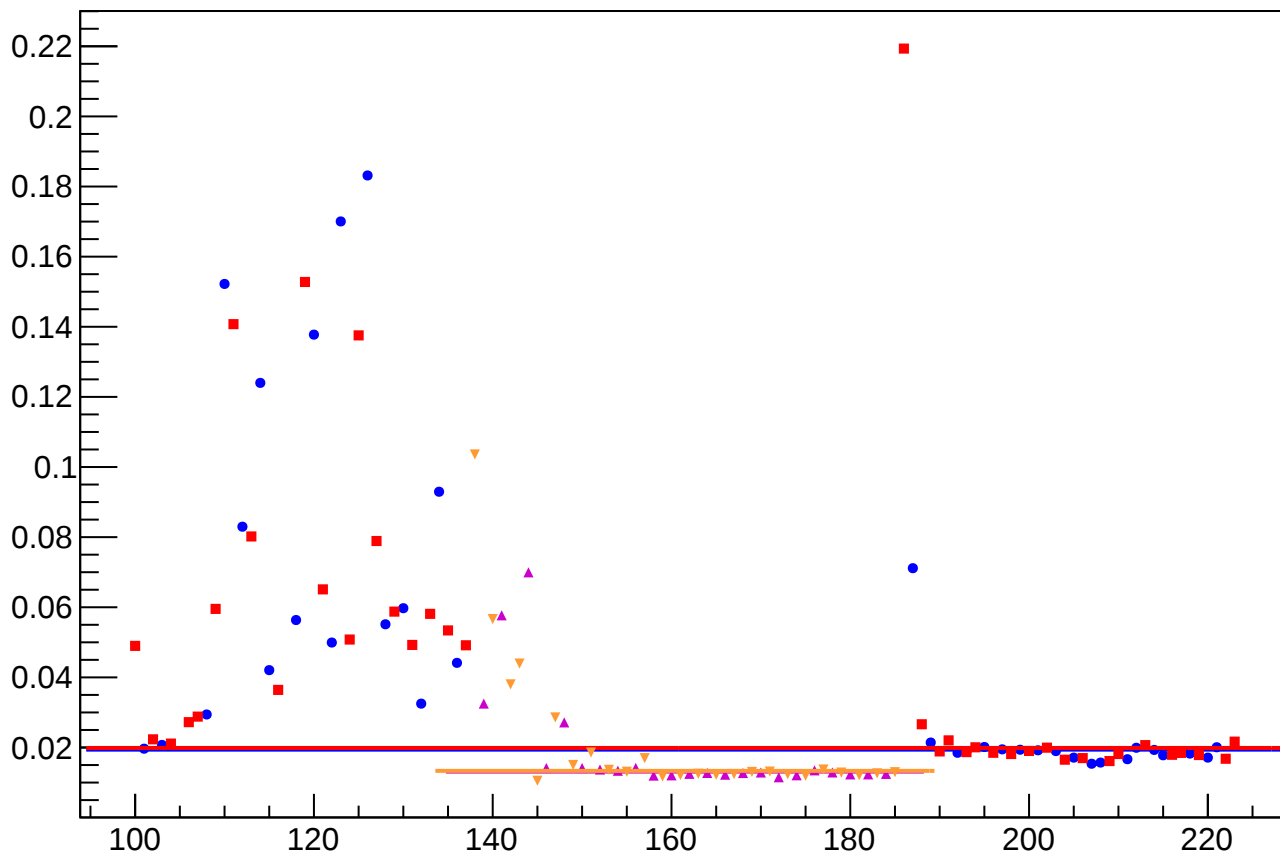
Out: 1.130+/-0.000 χ^2/NDF : 584694079700.7/63

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 1.177+/-0.000 χ^2/NDF : 1214172029140.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4244060.6/34

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5283742.0/38

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

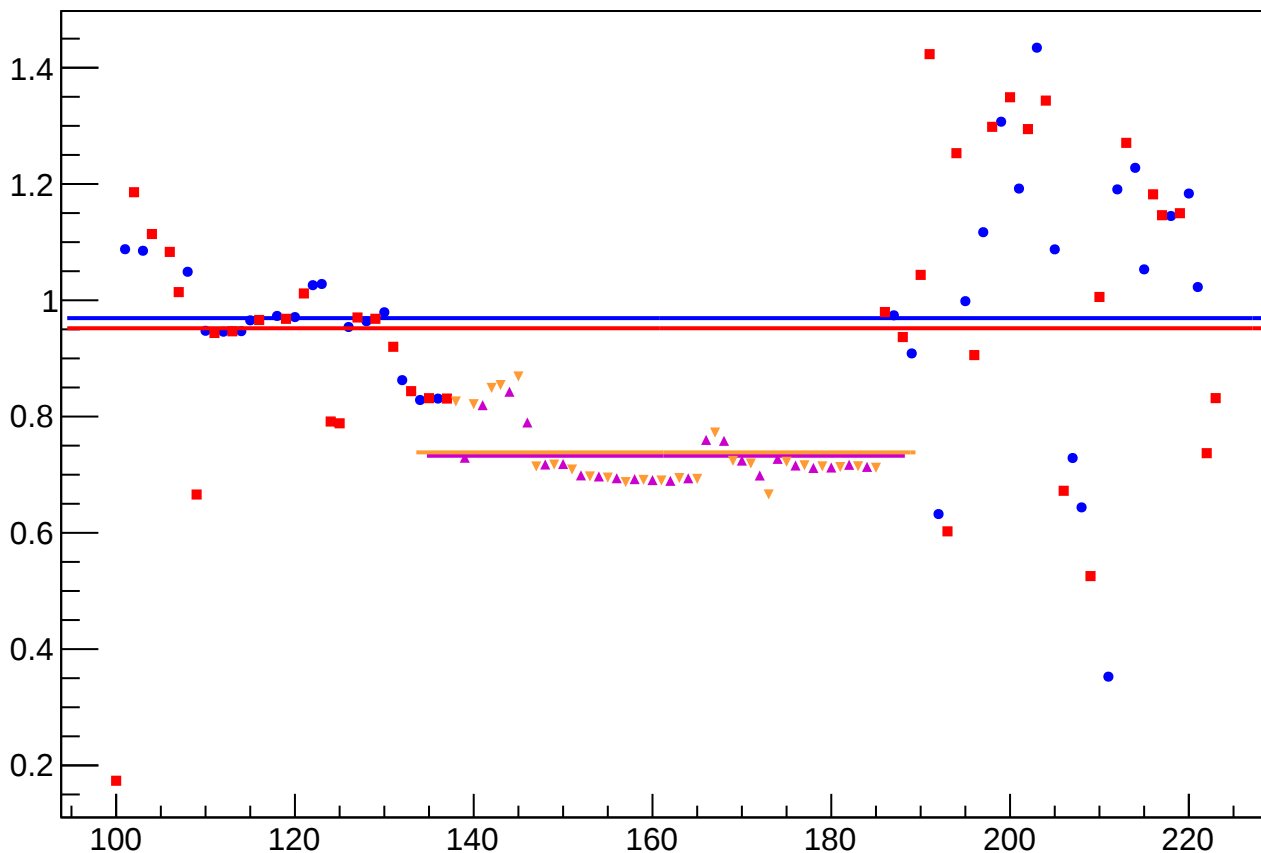
Right: 0.020+/-0.000 χ^2/NDF : 9536441.5/73

In: 0.015+/-0.000 χ^2/NDF : 8246247.7/57

Out: 0.015+/-0.000 χ^2/NDF : 10316990.4/63

All: 0.015+/-0.000 χ^2/NDF : 18571363.7/121

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.969 $\pm$ 0.000 χ^2/NDF : 1082989533.4/34

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.952 $\pm$ 0.000 χ^2/NDF : 1405146380.5/38

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

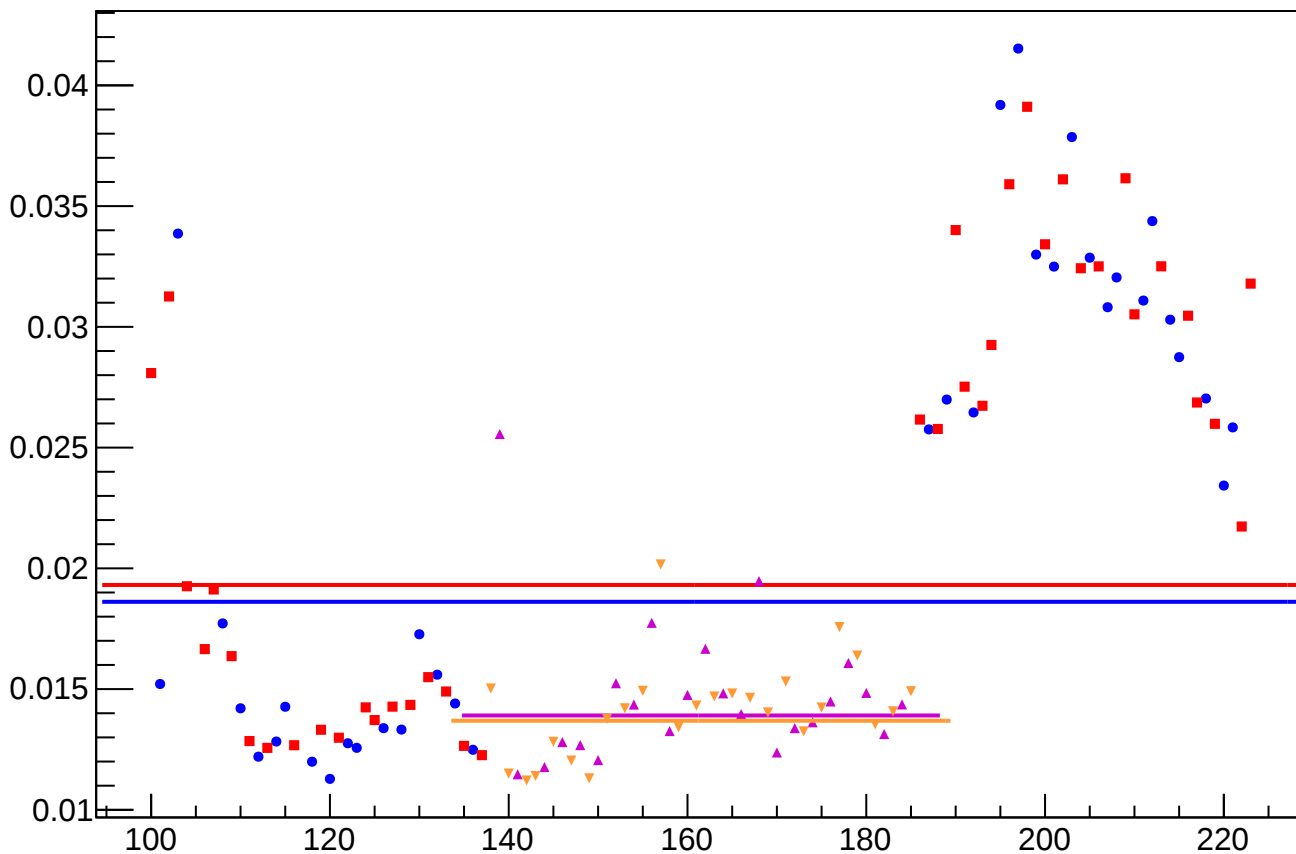
Right: 0.961 $\pm$ 0.000 χ^2/NDF : 2494804925.3/73

In: 0.817 $\pm$ 0.000 χ^2/NDF : 2848837170.3/57

Out: 0.810 $\pm$ 0.000 χ^2/NDF : 3038410050.6/63

All: 0.814 $\pm$ 0.000 χ^2/NDF : 5890178526.1/12

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5966629.7/34

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5337305.4/38

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

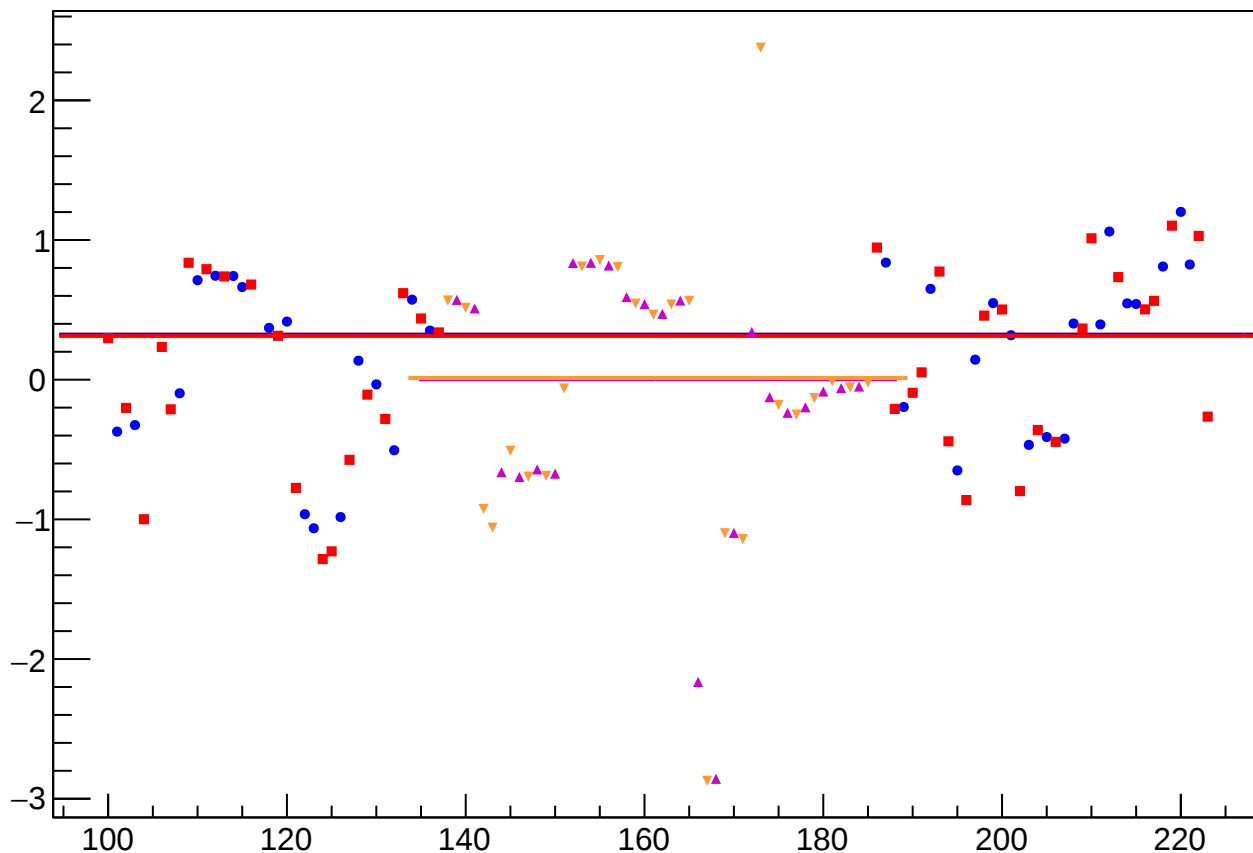
Right: 0.019+/-0.000 χ^2/NDF : 11325288.8/73

In: 0.016+/-0.000 χ^2/NDF : 7996826.0/57

Out: 0.016+/-0.000 χ^2/NDF : 7700434.4/63

All: 0.016+/-0.000 χ^2/NDF : 15697264.2/121

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.323+/-0.000

χ^2/NDF : 46446120009.7/34

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

Right Out: 0.313+/-0.000

χ^2/NDF : 56070238078.1/38

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000

χ^2/NDF : 175214894006.3/47

Right: 0.318+/-0.000

χ^2/NDF : 102522528155.0/73

In: 0.186+/-0.000

χ^2/NDF : 131392720680.5/57

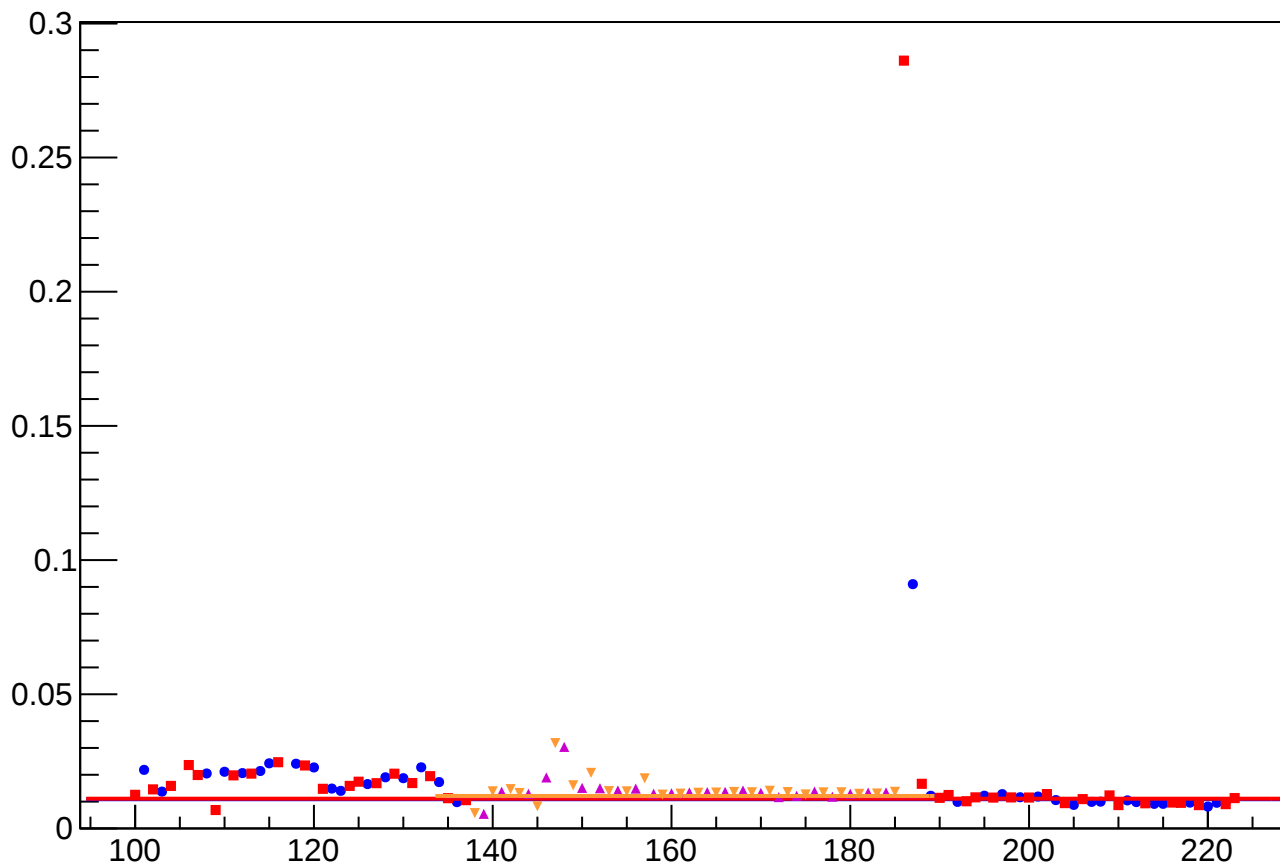
Out: 0.181+/-0.000

χ^2/NDF : 157983652281.4/63

All: 0.183+/-0.000

χ^2/NDF : 289380303409.2

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2886485.4/34

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3309539.0/38

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

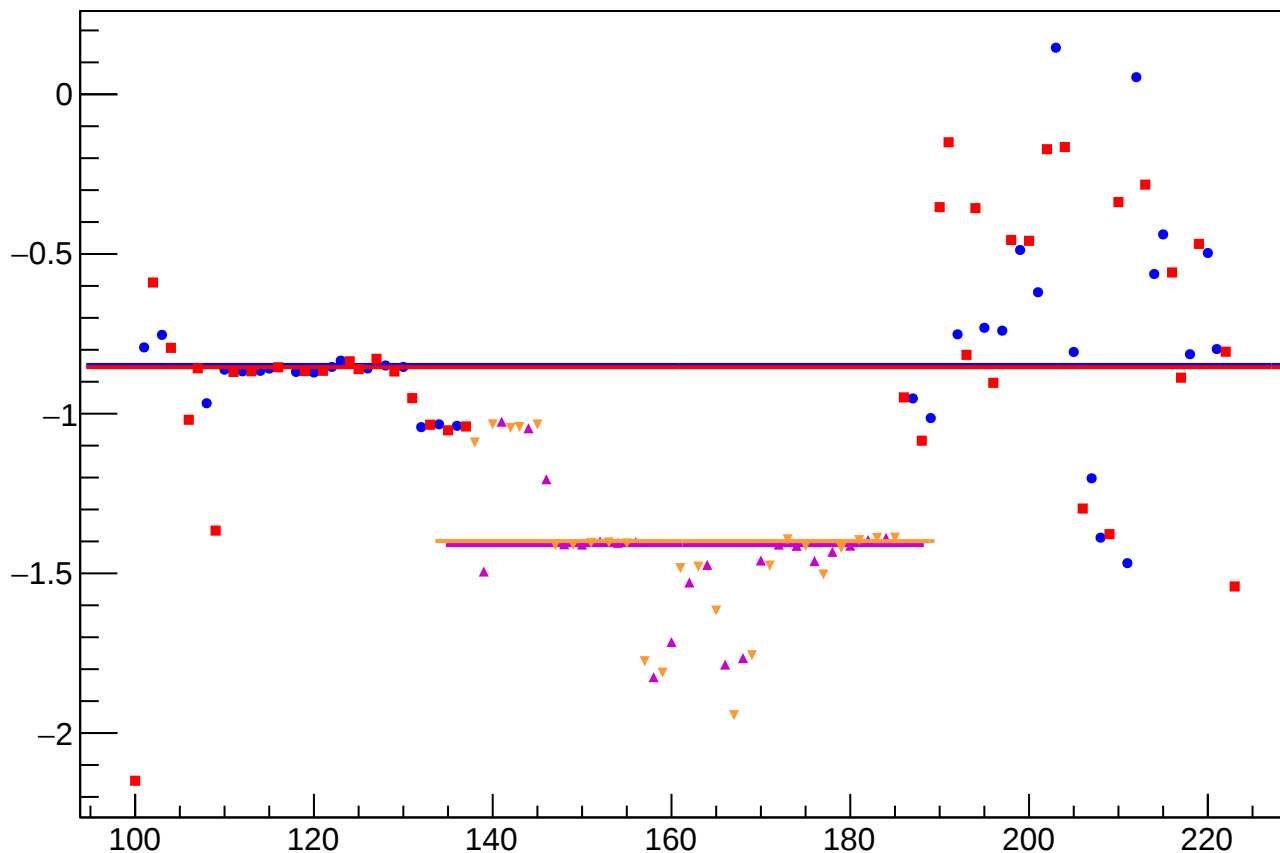
Right: 0.011+/-0.000 χ^2/NDF : 6201008.7/73

In: 0.011+/-0.000 χ^2/NDF :6035081.3/57

Out: 0.012+/-0.000 χ^2/NDF :6541871.2/63

All: 0.011+/-0.000 χ^2/NDF : 12583998.5/121

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.847 ± 0.000 $\chi^2/\text{NDF}: 398560012.9/34$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.854 ± 0.000 $\chi^2/\text{NDF}: 539281978.4/38$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

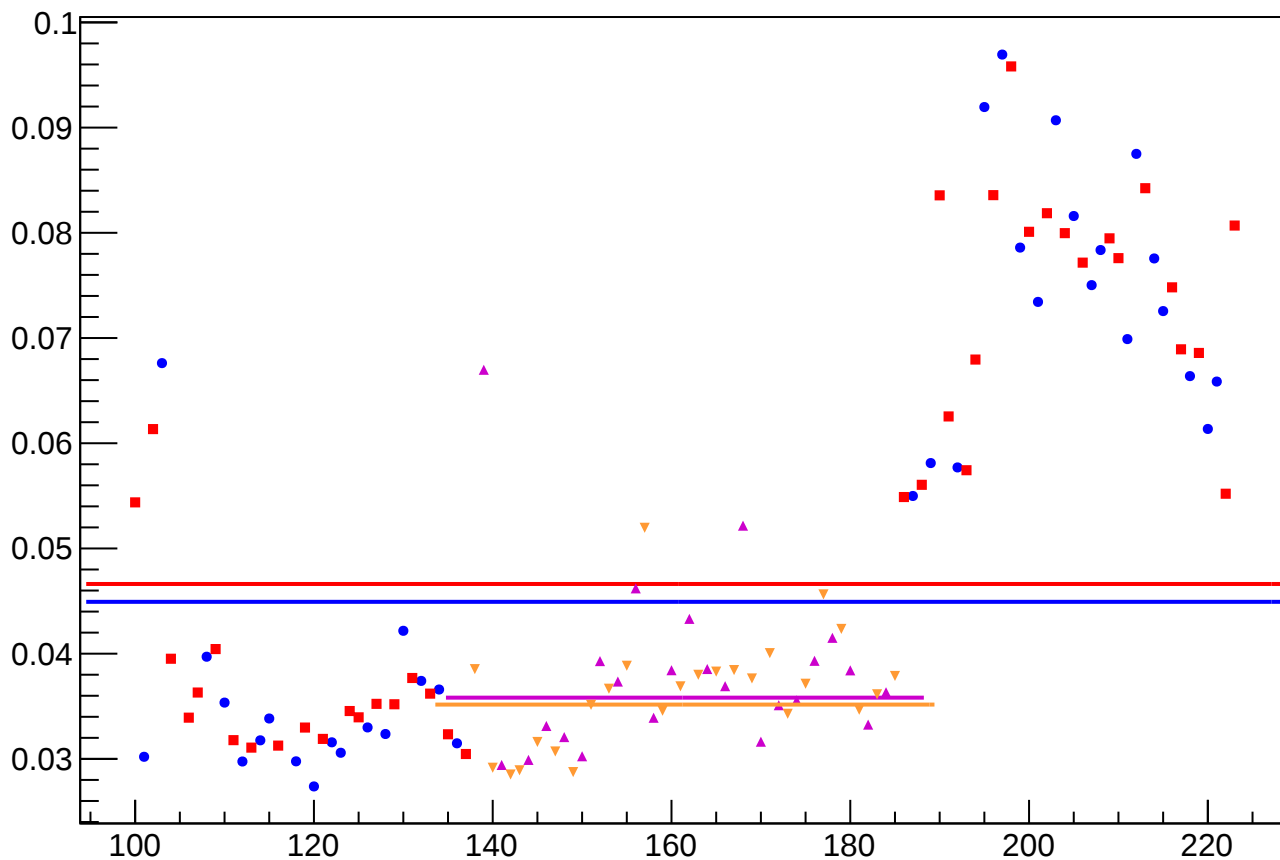
Right: -0.851 ± 0.000 $\chi^2/\text{NDF}: 938022479.6/73$

In: -1.190 ± 0.000 $\chi^2/\text{NDF}: 2398913570.1/57$

Out: -1.198 ± 0.000 $\chi^2/\text{NDF}: 2697071646.8/63$

All: -1.194 ± 0.000 $\chi^2/\text{NDF}: 5096608102.2/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 5874544.5/34

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 595219.5/24

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 5050295.8/38

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

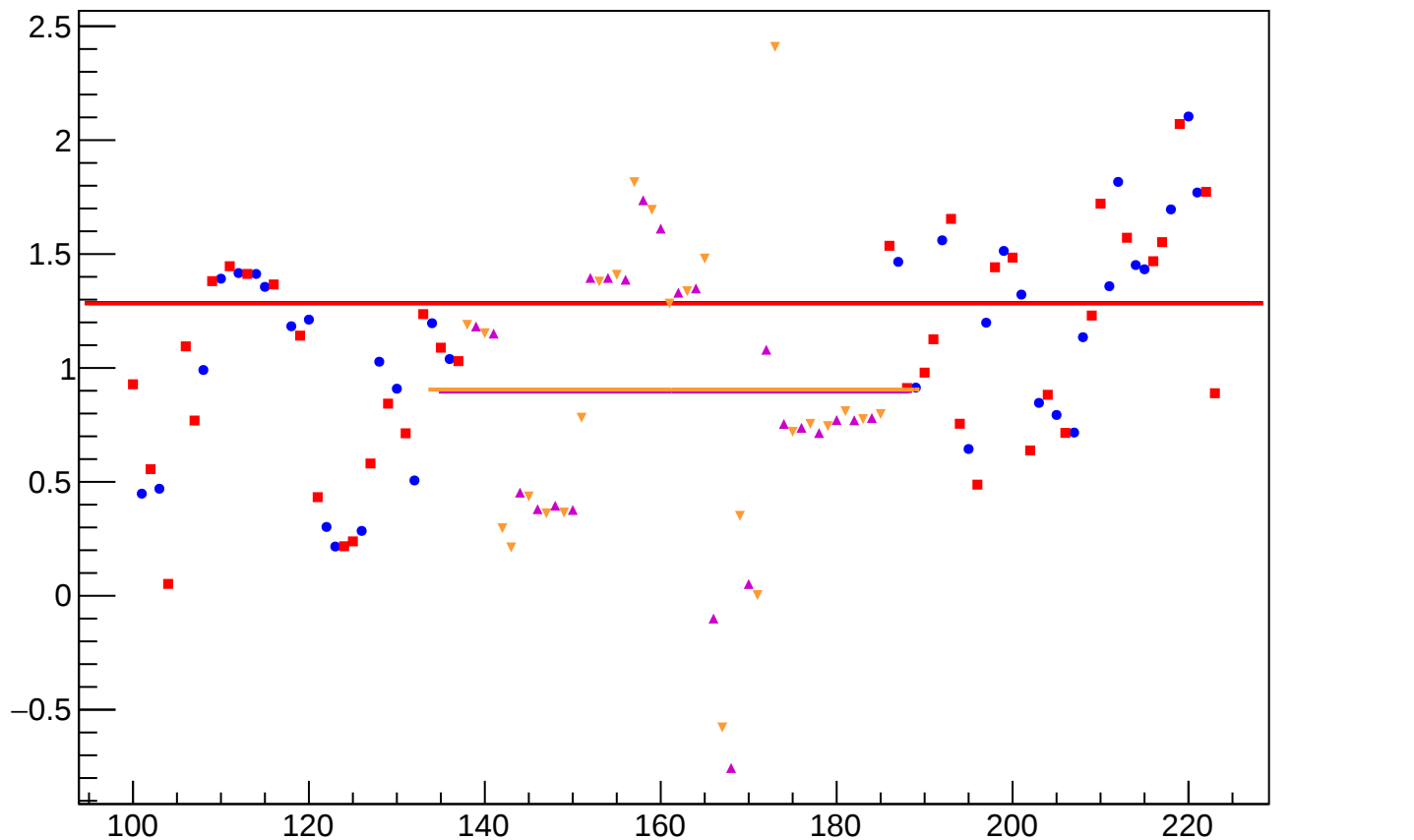
Right: 0.046 $\pm$ 0.000 χ^2 /NDF: 10946861.9/73

In: 0.039 $\pm$ 0.000 χ^2 /NDF: 7514567.9/57

Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 6903793.7/63

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 14418361.9/121

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.285+/-0.000

χ^2/NDF : 79653451791.8/34

Left: 0.901+/-0.000 χ^2/NDF : 150868618084.6/47

Right: 1.284+/-0.000 χ^2/NDF : 158459423800.5/73

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

In: 1.151+/-0.000 χ^2/NDF : 166509991300.0/57

Right Out: 1.283+/-0.000 χ^2/NDF : 78805112518.3/38

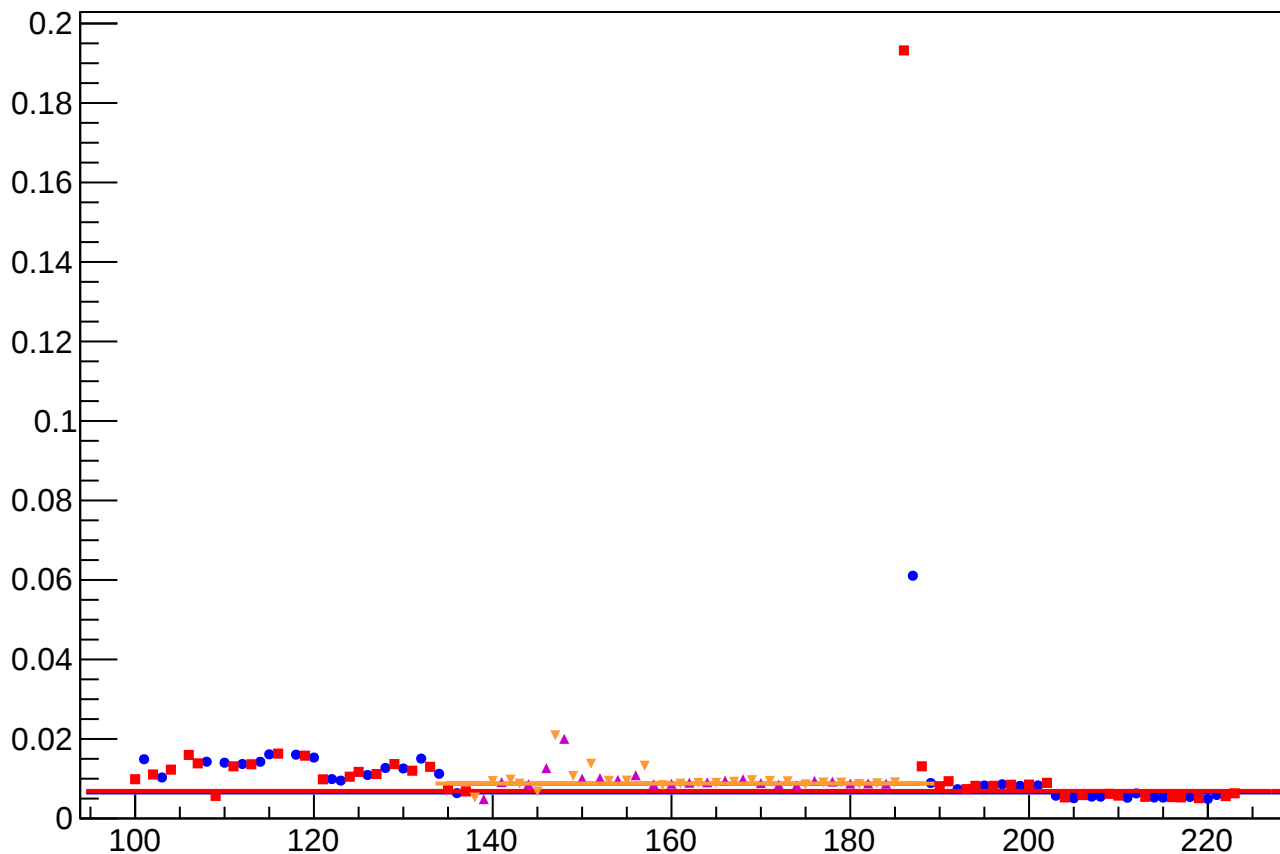
Out: 1.138+/-0.000 χ^2/NDF : 182328174986.2/63

Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 1.145+/-0.000 χ^2/NDF : 348882136073.1

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4050985.7/34

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4417660.6/38

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

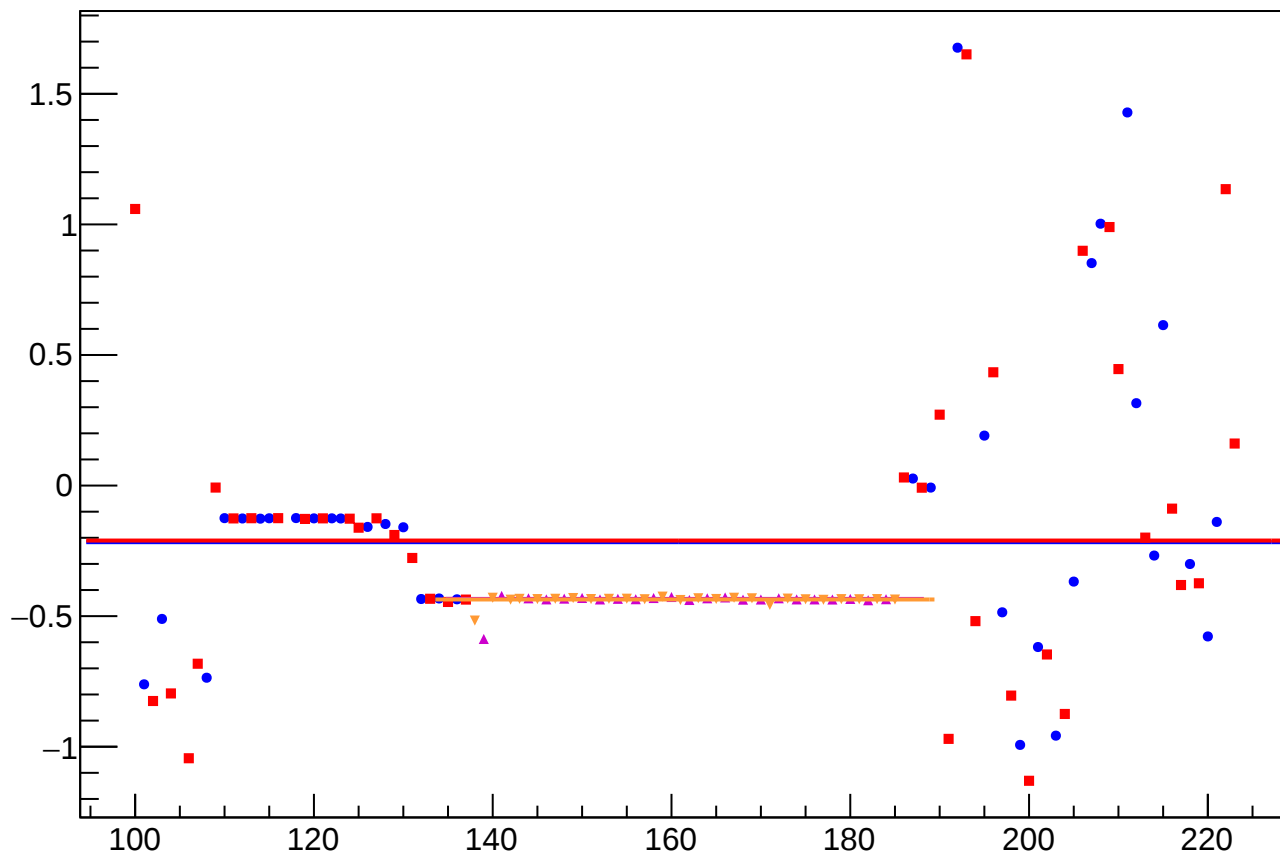
Right: 0.007+/-0.000 χ^2/NDF : 8525270.4/73

In: 0.007+/-0.000 χ^2/NDF :6999275.8/57

Out: 0.008+/-0.000 χ^2/NDF :7039987.9/63

All: 0.007+/-0.000 χ^2/NDF : 14101407.0/121

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.217 ± 0.000 $\chi^2/\text{NDF}: 5047424378.1/34$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28774660.0/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 4384204197.3/38$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53122221.7/47$

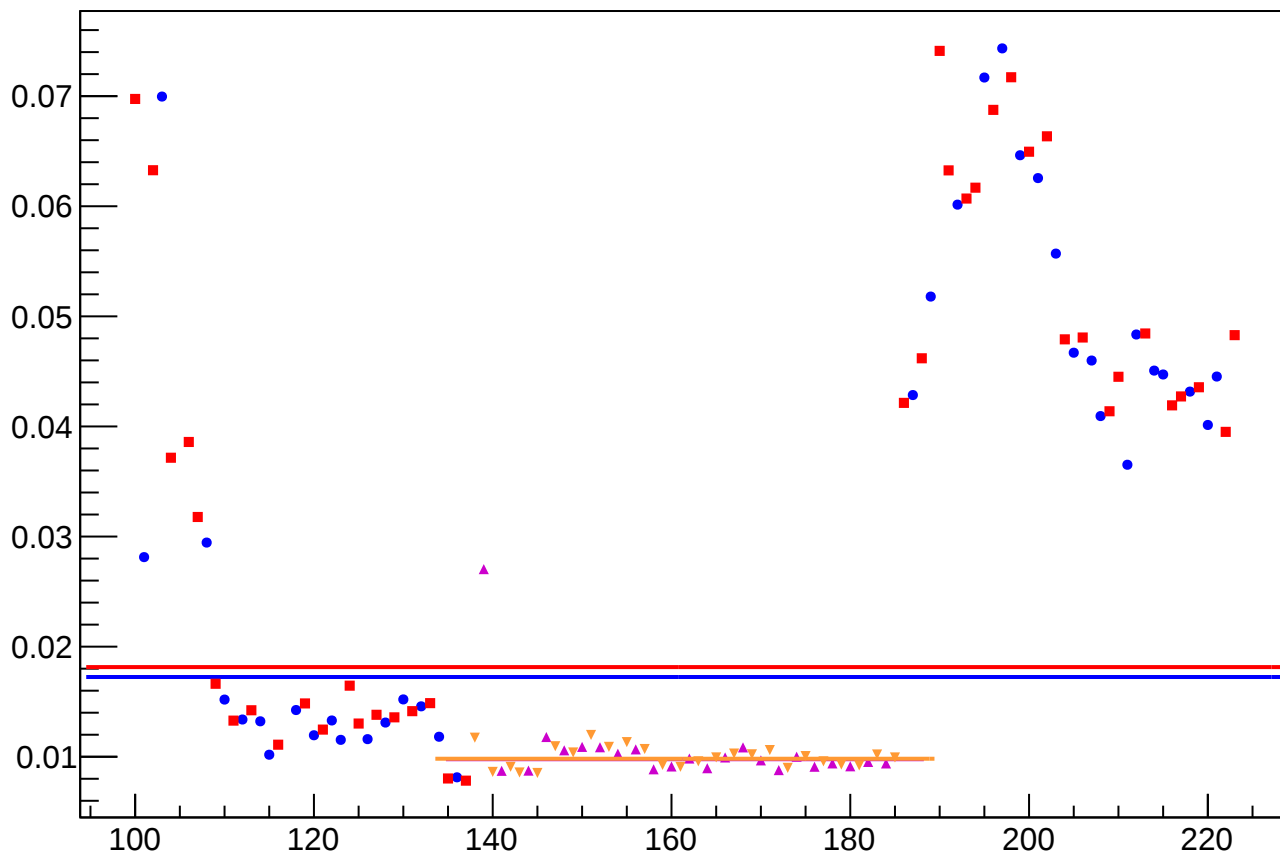
Right: -0.214 ± 0.000 $\chi^2/\text{NDF}: 9432338300.4/73$

In: -0.391 ± 0.000 $\chi^2/\text{NDF}: 6486968832.1/57$

Out: -0.396 ± 0.000 $\chi^2/\text{NDF}: 5881469394.6/63$

All: -0.394 ± 0.000 $\chi^2/\text{NDF}: 12370645068.9/120$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 14309982.7/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 14534199.7/38

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

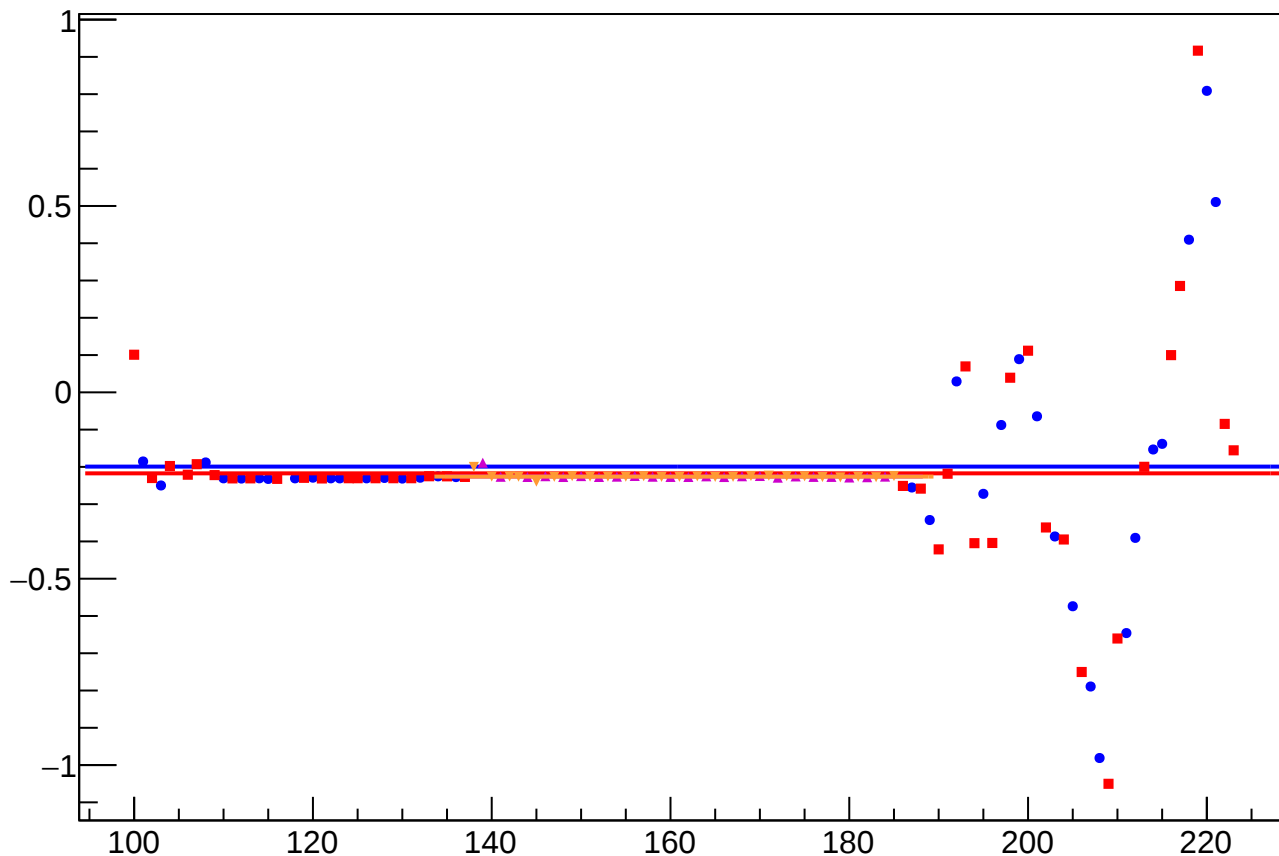
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 28873551.6/73

In: 0.011 $\pm$ 0.000 χ^2 /NDF:18402065.0/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:18798219.3/63

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 37200887.8/121

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.199+/-0.000 χ^2/NDF : 52761306648.4/34

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.217+/-0.000 χ^2/NDF : 47114361031.2/38

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

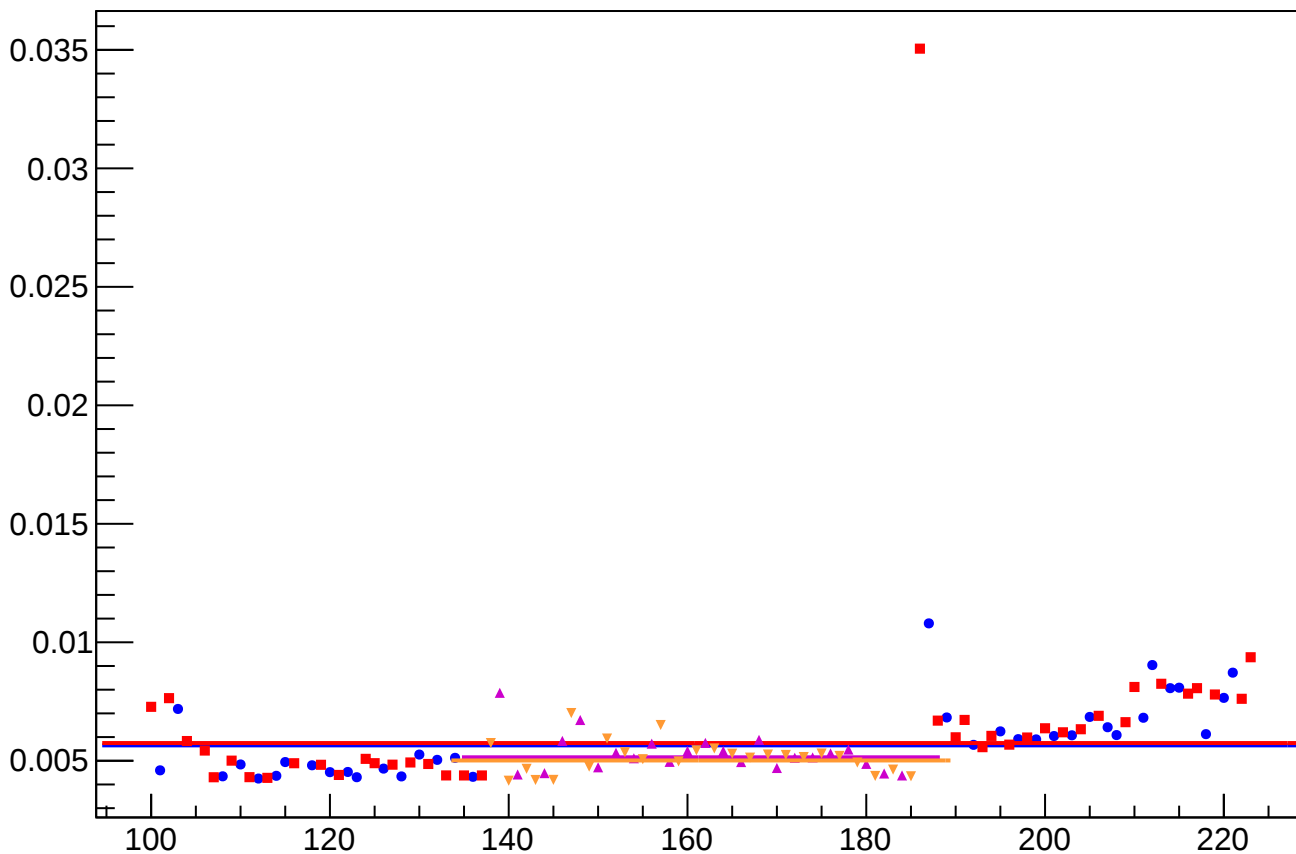
Right: -0.208+/-0.000 χ^2/NDF : 99966878582.0/73

In: -0.213+/-0.000 χ^2/NDF : 52981317262.2/57

Out: -0.222+/-0.000 χ^2/NDF : 47158725366.7/63

All: -0.218+/-0.000 χ^2/NDF : 100188709111.8

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1712543.3/34

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2169418.2/38

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

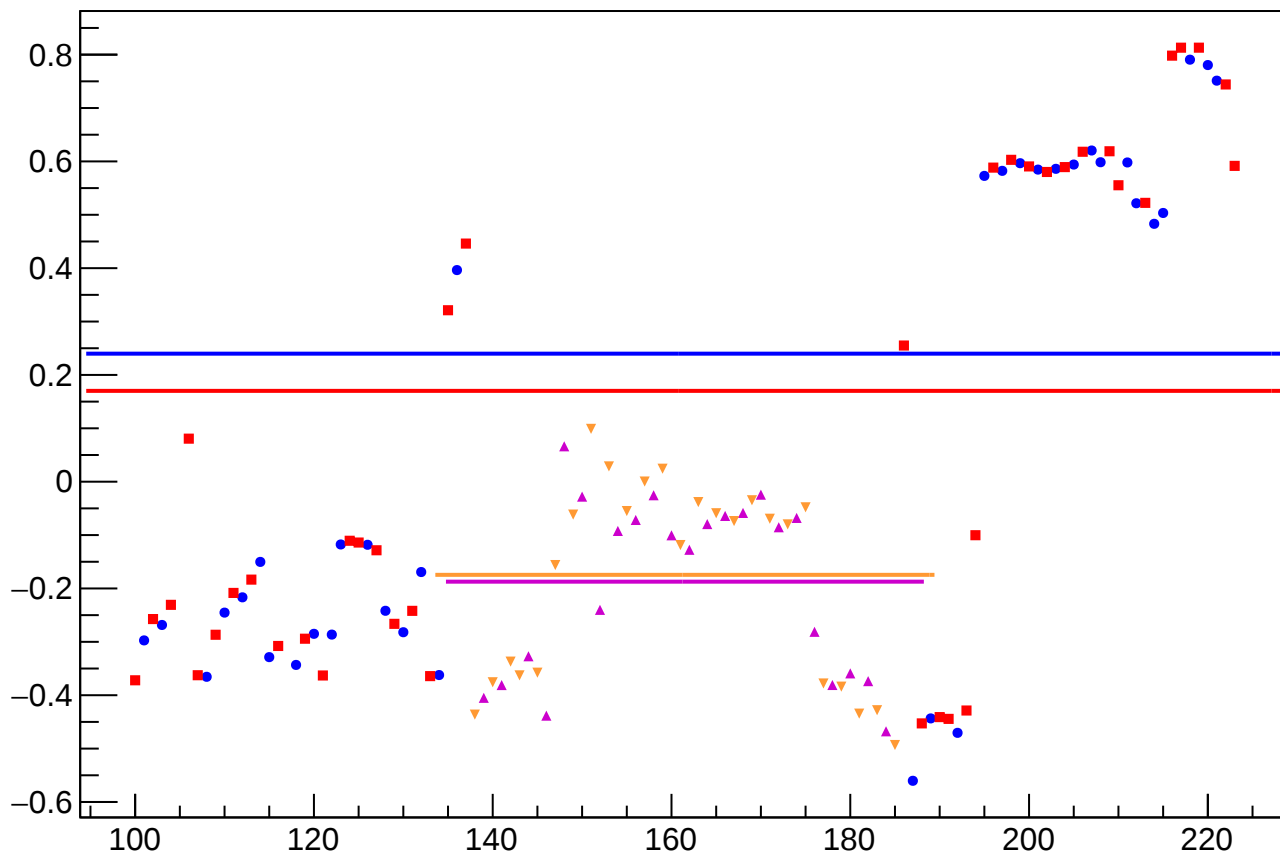
Right: 0.006+/-0.000 χ^2/NDF : 3887277.9/73

In: 0.005+/-0.000 χ^2/NDF : 2353989.2/57

Out: 0.005+/-0.000 χ^2/NDF : 3031548.4/63

All: 0.005+/-0.000 χ^2/NDF : 5387731.4/121

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.240+/-0.000

χ^2/NDF : 82745726115.7/34

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.204+/-0.000

χ^2/NDF : 175158943744.0/73

Right Out: 0.170+/-0.000

χ^2/NDF : 91418687192.4/38

In: -0.007+/-0.000

χ^2/NDF : 137714839051.5/57

Out: -0.030+/-0.000

χ^2/NDF : 138308889188.5/63

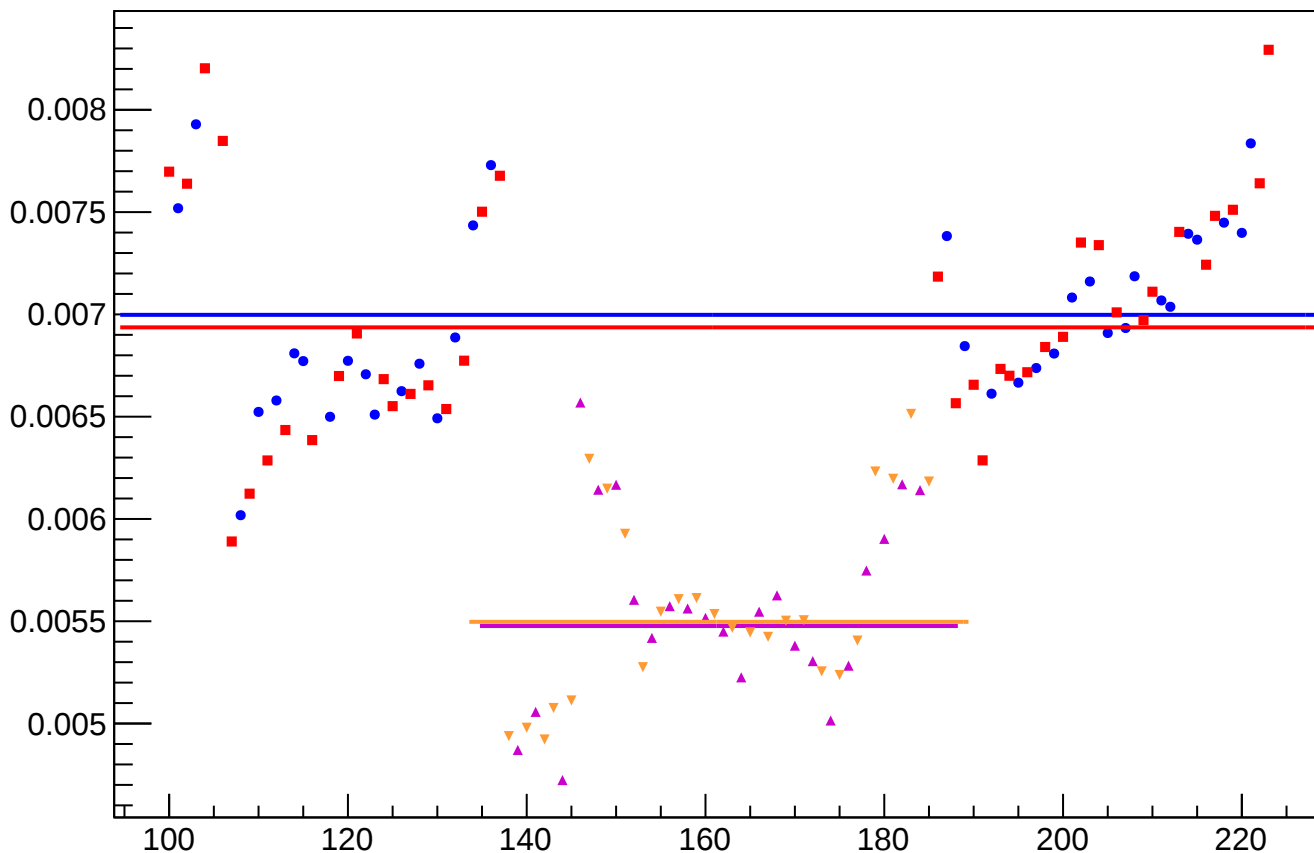
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.019+/-0.000

χ^2/NDF : 276272394798.1

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 139459.1/34

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 199572.2/38

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

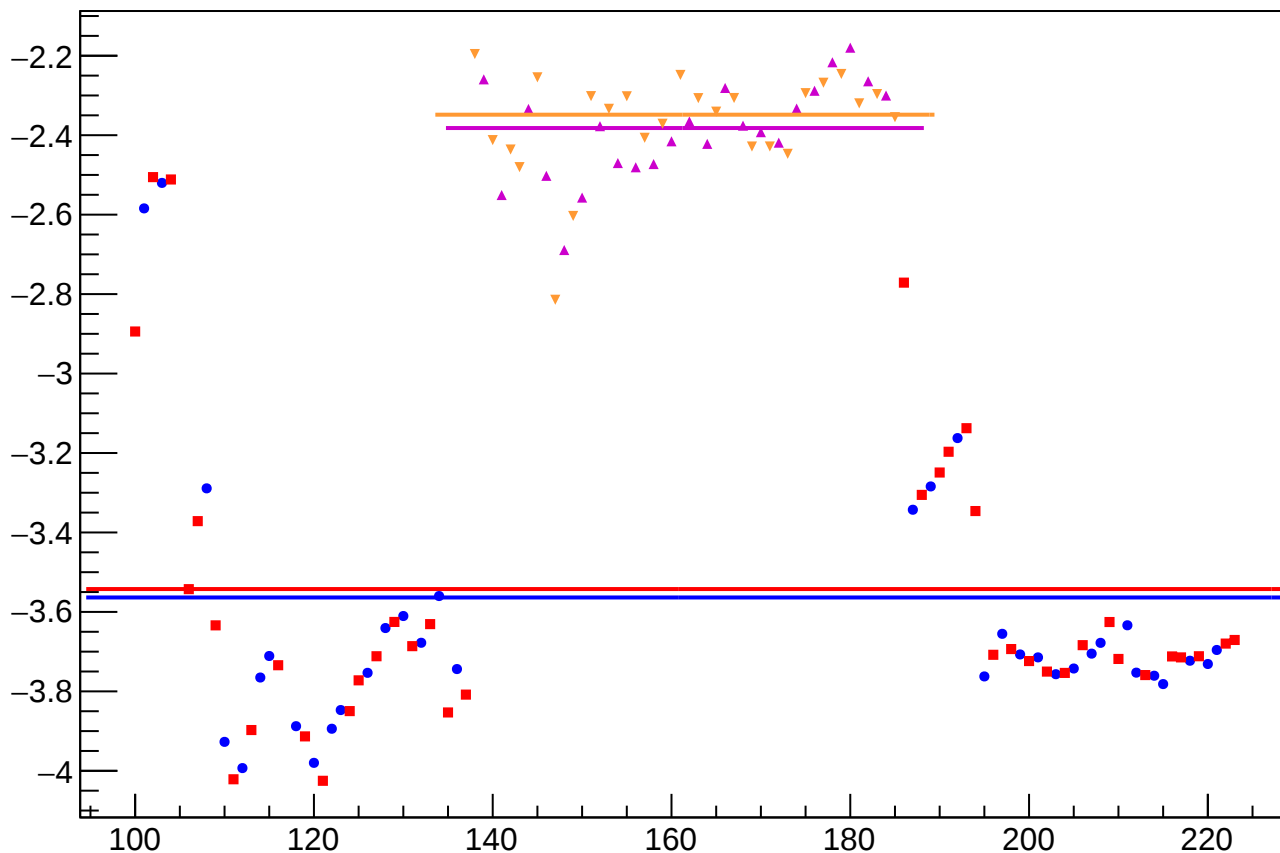
Right: 0.007+/-0.000 χ^2/NDF : 340565.2/73

In: 0.006+/-0.000 χ^2/NDF :1410841.4/57

Out: 0.006+/-0.000 χ^2/NDF :1405274.8/63

All: 0.006+/-0.000 χ^2/NDF : 2816377.9/121

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.564 $\pm$ 0.000

χ^2 /NDF: 31064845342.8/34

Left: -2.365 $\pm$ 0.000

χ^2 /NDF: 4600738143.2/47

Left Out: -2.348 $\pm$ 0.000

χ^2 /NDF: 2158686333.4/24

Right: -3.553 $\pm$ 0.000

χ^2 /NDF: 62969337892.1/73

Right Out: -3.542 $\pm$ 0.000

χ^2 /NDF: 31862059877.3/38

In: -2.932 $\pm$ 0.000

χ^2 /NDF: 171968170366.9/57

Out: -2.898 $\pm$ 0.000

χ^2 /NDF: 181731287263.7/63

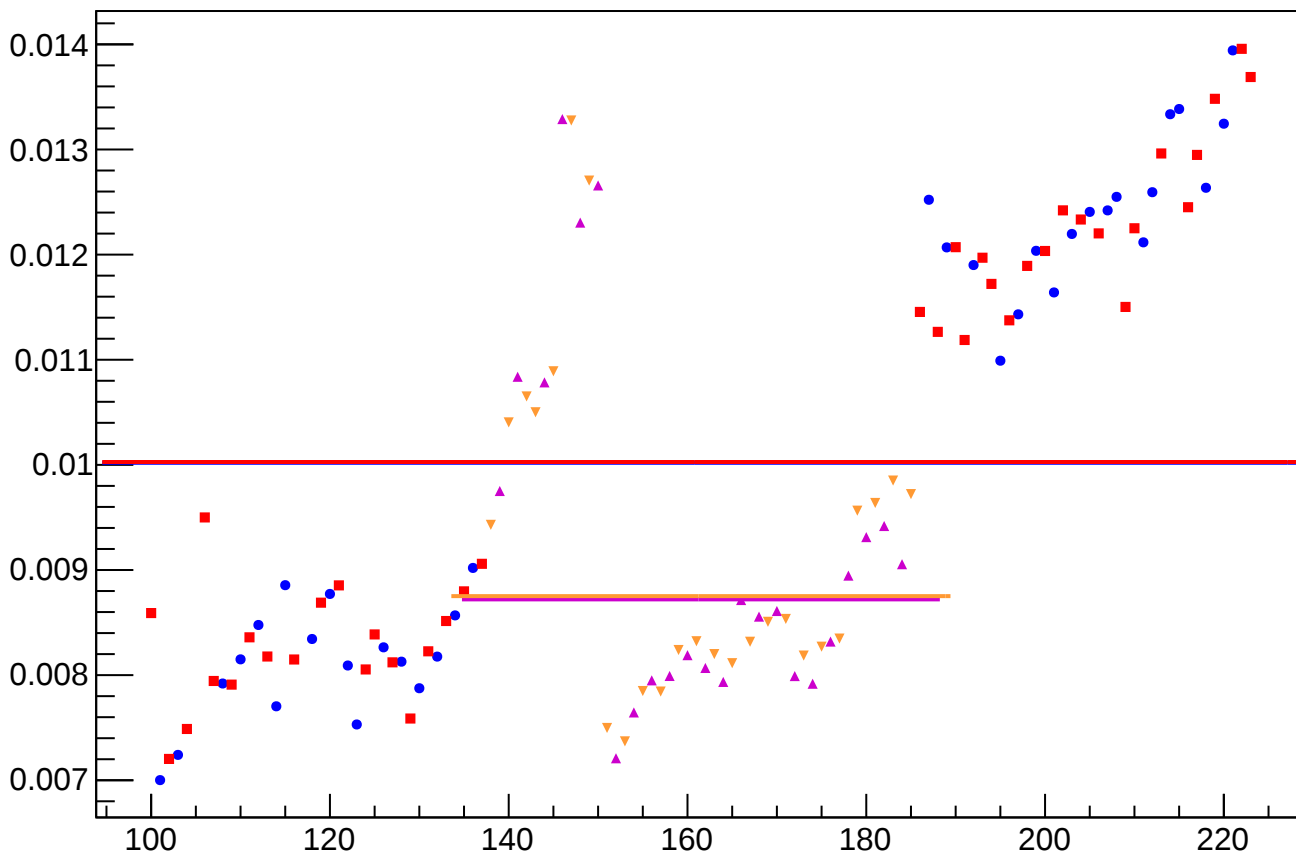
Left In: -2.382 $\pm$ 0.000

χ^2 /NDF: 2318395228.4/22

All: -2.915 $\pm$ 0.000

χ^2 /NDF: 353925469087.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1854382.0/34

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1727245.0/38

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

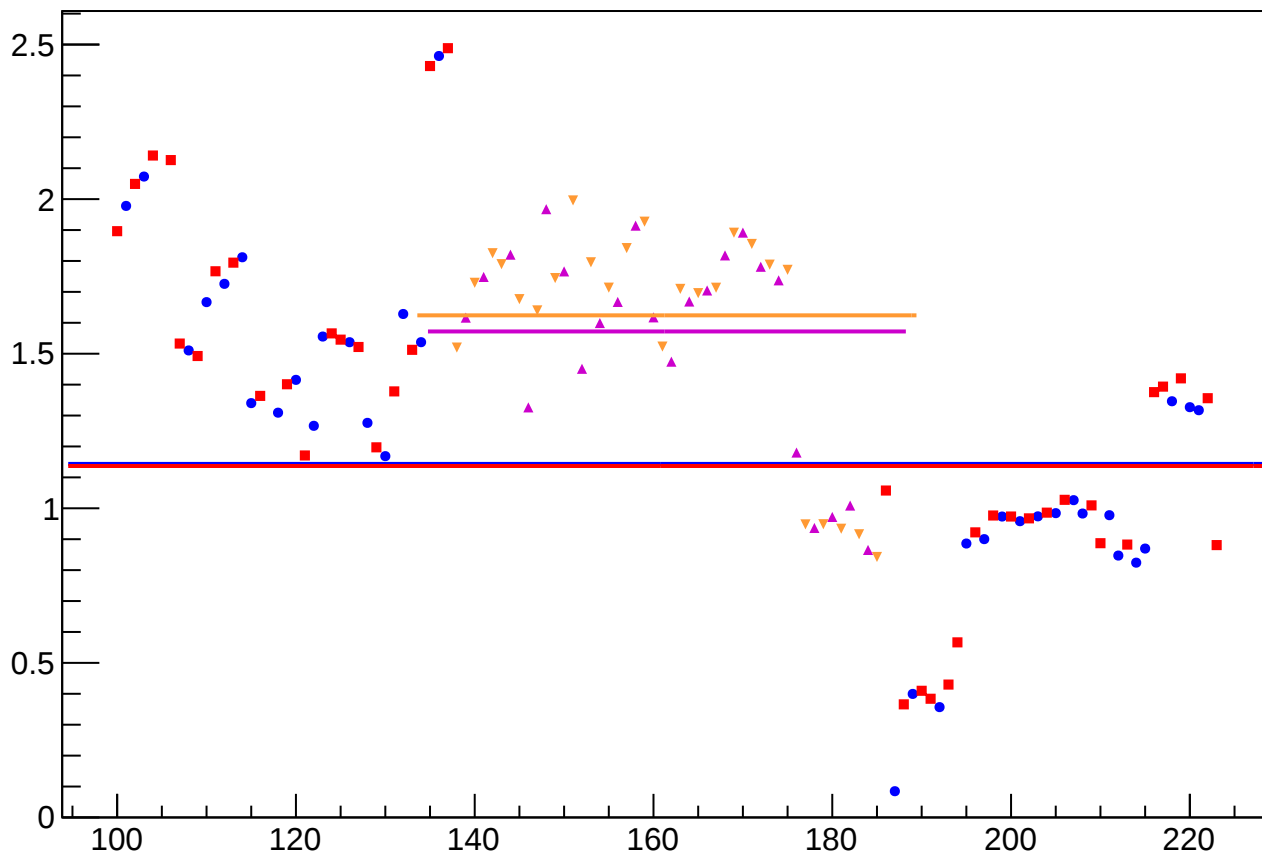
Right: 0.010+/-0.000 χ^2/NDF : 3581637.0/73

In: 0.009+/-0.000 χ^2/NDF : 2937463.5/57

Out: 0.009+/-0.000 χ^2/NDF : 2728218.1/63

All: 0.009+/-0.000 χ^2/NDF : 5665762.5/121

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.144 $\pm$ 0.000 χ^2 /NDF: 29341940484.4/34

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF:16631112386.4/24

Right Out: 1.137 $\pm$ 0.000 χ^2 /NDF: 34366565673.4/38

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

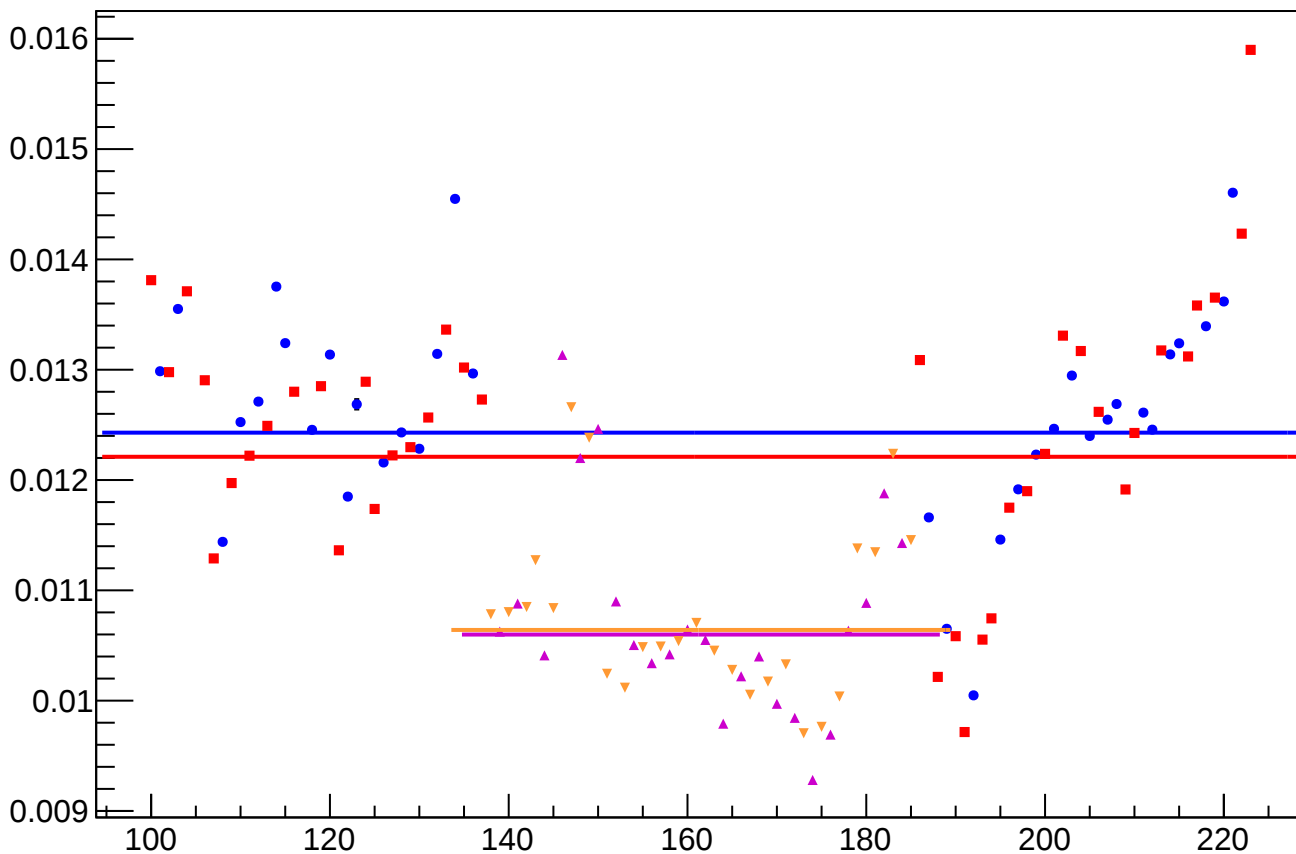
Right: 1.140 $\pm$ 0.000 χ^2 /NDF: 63711447905.4/73

In: 1.375 $\pm$ 0.000 χ^2 /NDF:56033835438.0/57

Out: 1.399 $\pm$ 0.000 χ^2 /NDF:68112667157.2/63

All: 1.387 $\pm$ 0.000 χ^2 /NDF: 124226807251.4

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 252067.3/34

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 363866.2/38

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

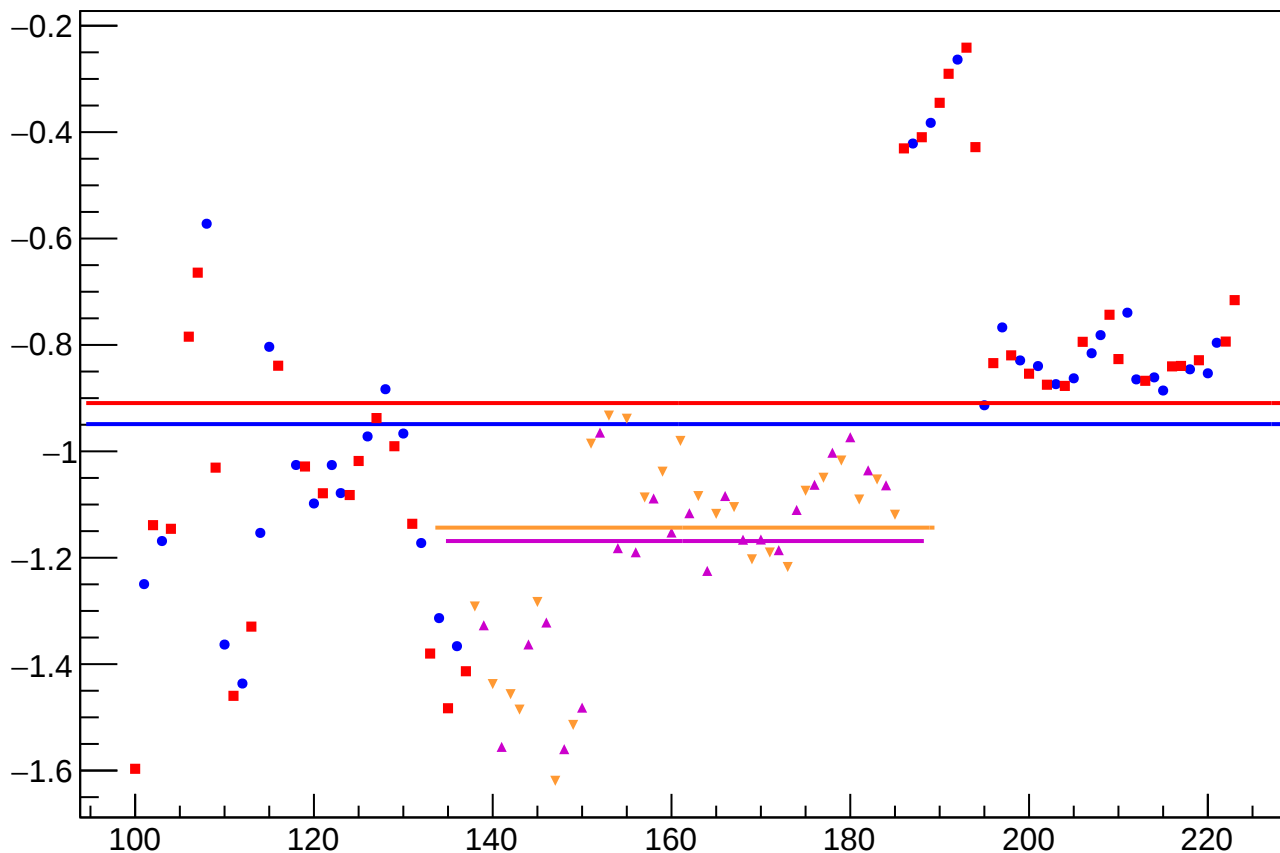
Right: 0.012+/-0.000 χ^2/NDF : 622134.3/73

In: 0.011+/-0.000 χ^2/NDF :911459.3/57

Out: 0.011+/-0.000 χ^2/NDF :878895.8/63

All: 0.011+/-0.000 χ^2/NDF : 1791901.1/121

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.949+/-0.000 χ^2/NDF : 11687467359.5/34

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.909+/-0.000 χ^2/NDF : 16278387563.9/38

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

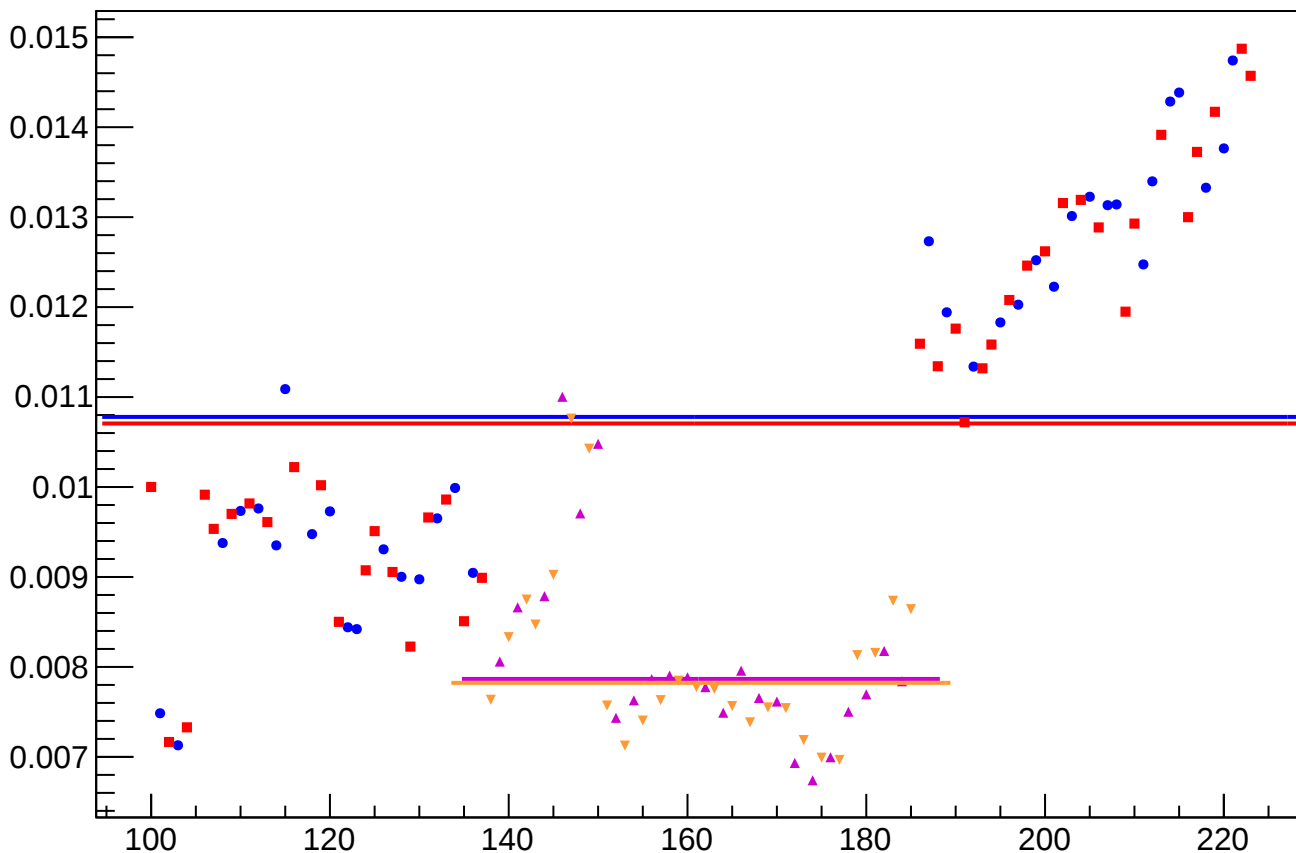
Right: -0.929+/-0.000 χ^2/NDF : 28093873976.2/73

In: -1.085+/-0.000 χ^2/NDF : 22847790897.2/57

Out: -1.056+/-0.000 χ^2/NDF : 30005810002.0/63

All: -1.070+/-0.000 χ^2/NDF : 53044605394.2/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1608585.4/34

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1525414.3/38

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

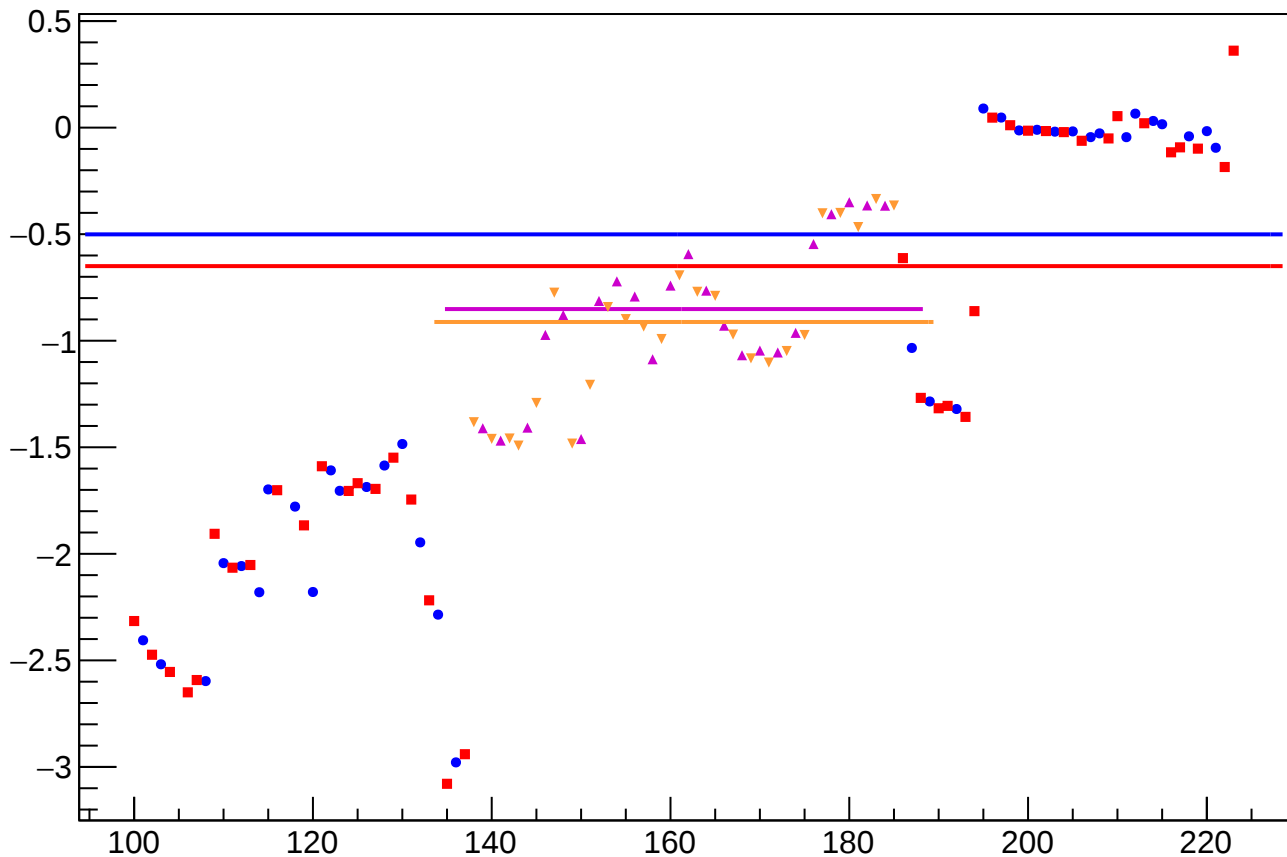
Right: 0.011+/-0.000 χ^2/NDF : 3134873.6/73

In: 0.009+/-0.000 χ^2/NDF :3673431.5/57

Out: 0.009+/-0.000 χ^2/NDF :3606081.8/63

All: 0.009+/-0.000 χ^2/NDF : 7281458.7/121

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.501+/-0.000

χ^2/NDF : 422754275947.2/34

Left: -0.882+/-0.000

χ^2/NDF : 96285672564.6/47

Left Out: -0.912+/-0.000

χ^2/NDF : 49039425818.1/24

Right: -0.578+/-0.000

χ^2/NDF : 882435481998.7/73

Right Out: -0.650+/-0.000

χ^2/NDF : 453553095239.0/38

In: -0.659+/-0.000

χ^2/NDF : 498560728909.7/57

Out: -0.764+/-0.000

χ^2/NDF : 519837494476.7/63

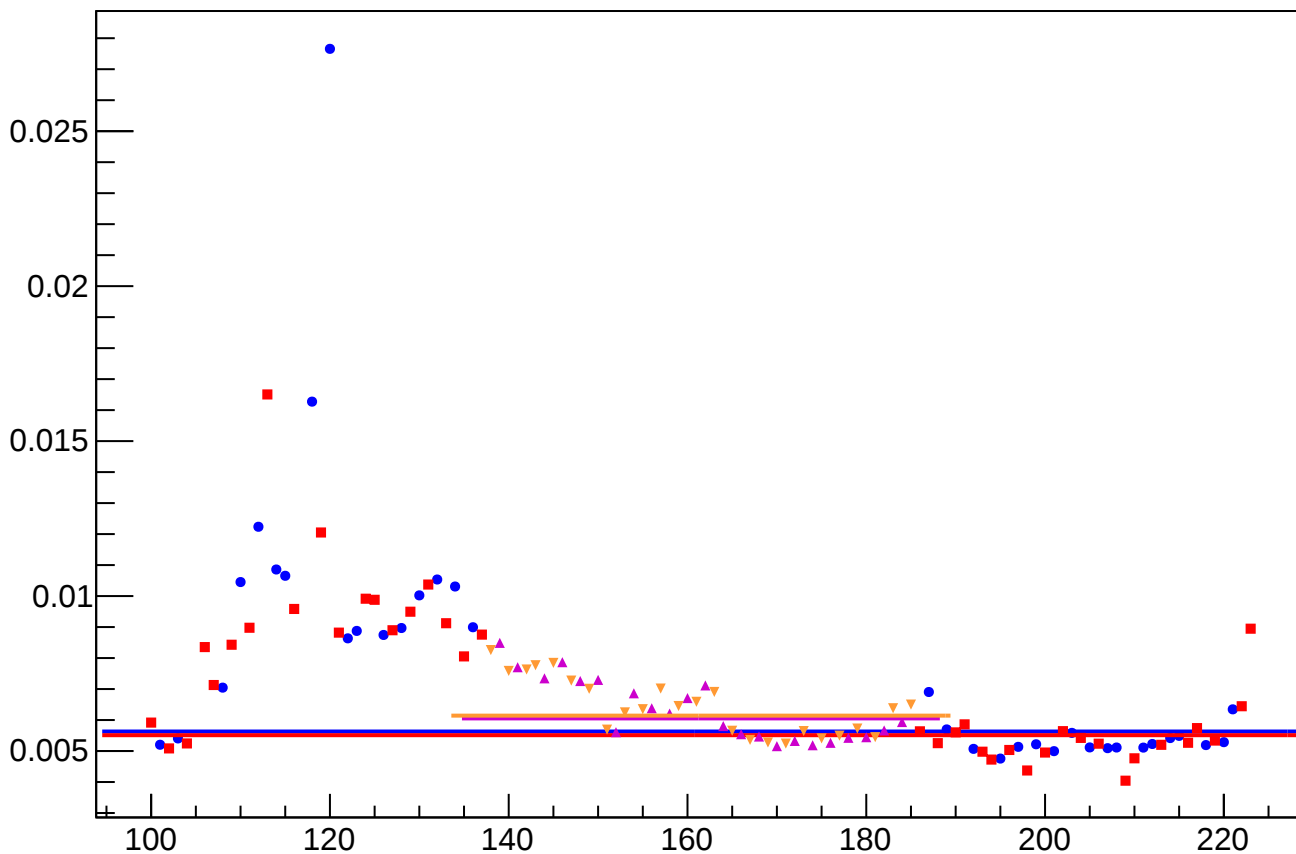
Left In: -0.851+/-0.000

χ^2/NDF : 46438446008.2/22

All: -0.713+/-0.000

χ^2/NDF : 1023910831781

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2098127.1/34

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2255843.2/38

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

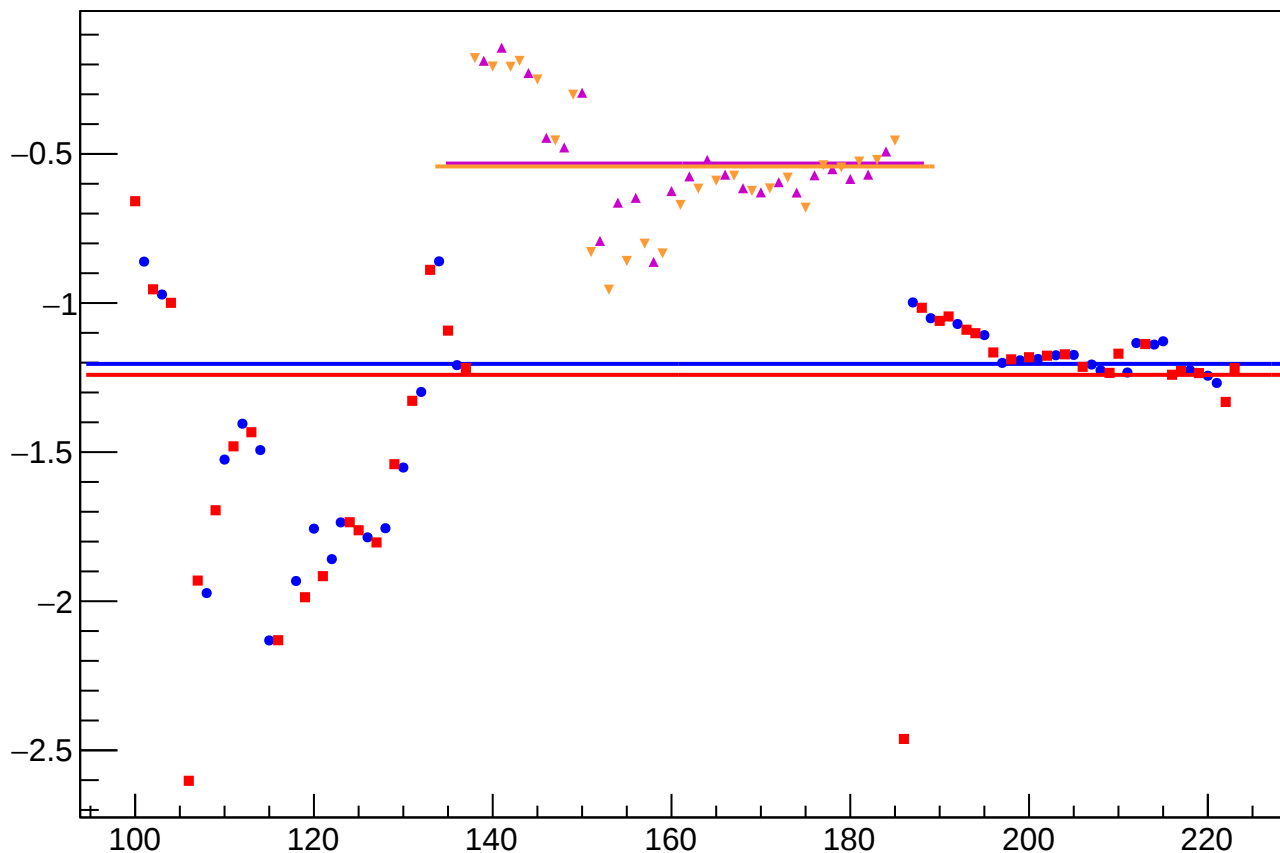
Right: 0.006+/-0.000 χ^2/NDF : 4361785.4/73

In: 0.006+/-0.000 χ^2/NDF :2881143.8/57

Out: 0.006+/-0.000 χ^2/NDF :3093670.7/63

All: 0.006+/-0.000 χ^2/NDF : 5975967.3/121

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.204 $\pm$ 0.000 χ^2/NDF : 27166375041.3/34

Left Out: -0.542 $\pm$ 0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.241 $\pm$ 0.000 χ^2/NDF : 79748661683.8/38

Left In: -0.532 $\pm$ 0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2/NDF : 78028833870.1/47

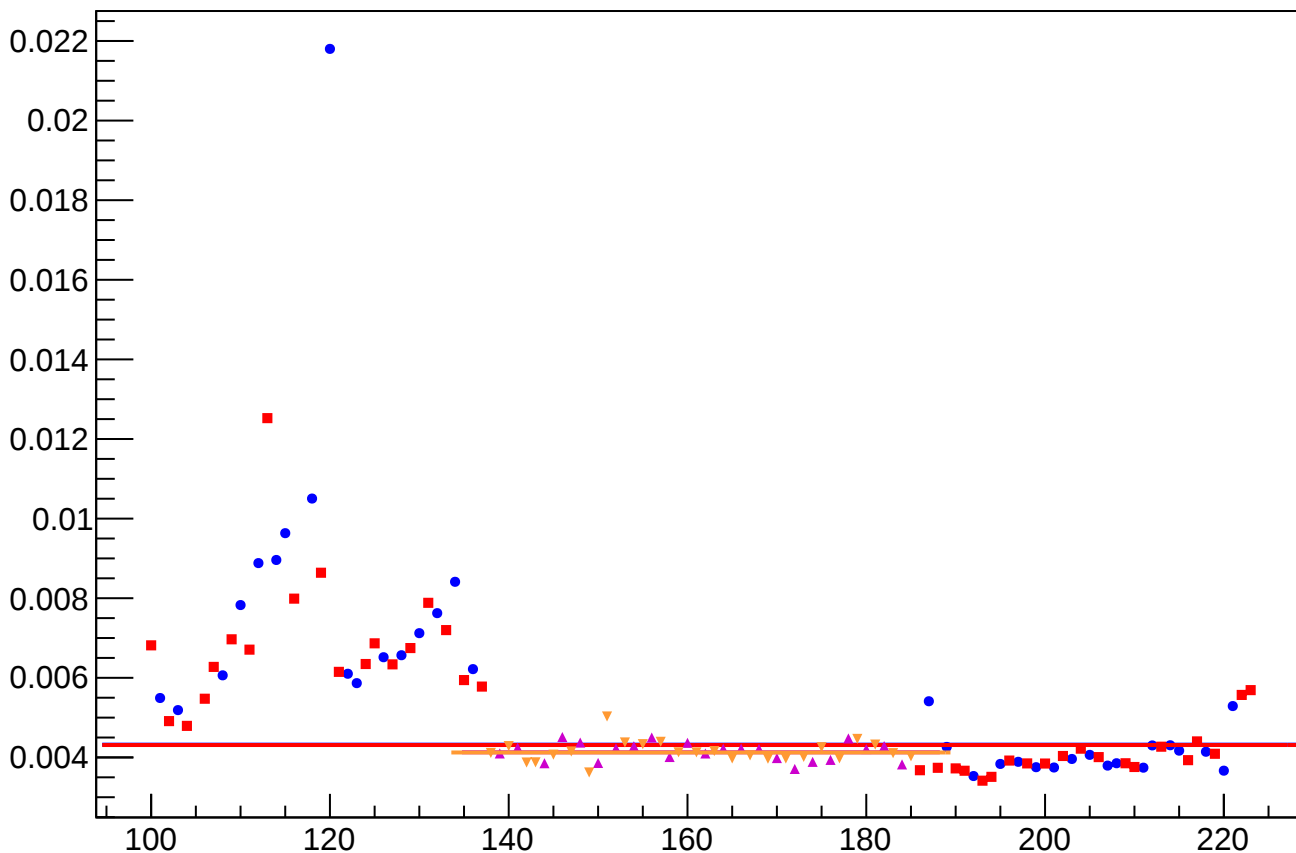
Right: -1.223 $\pm$ 0.000 χ^2/NDF : 107534127297.5/73

In: -0.861 $\pm$ 0.000 χ^2/NDF : 264577672468.9/57

Out: -0.881 $\pm$ 0.000 χ^2/NDF : 362373443718.2/63

All: -0.871 $\pm$ 0.000 χ^2/NDF : 627353749526.8

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2174588.5/34

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2016573.2/38

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

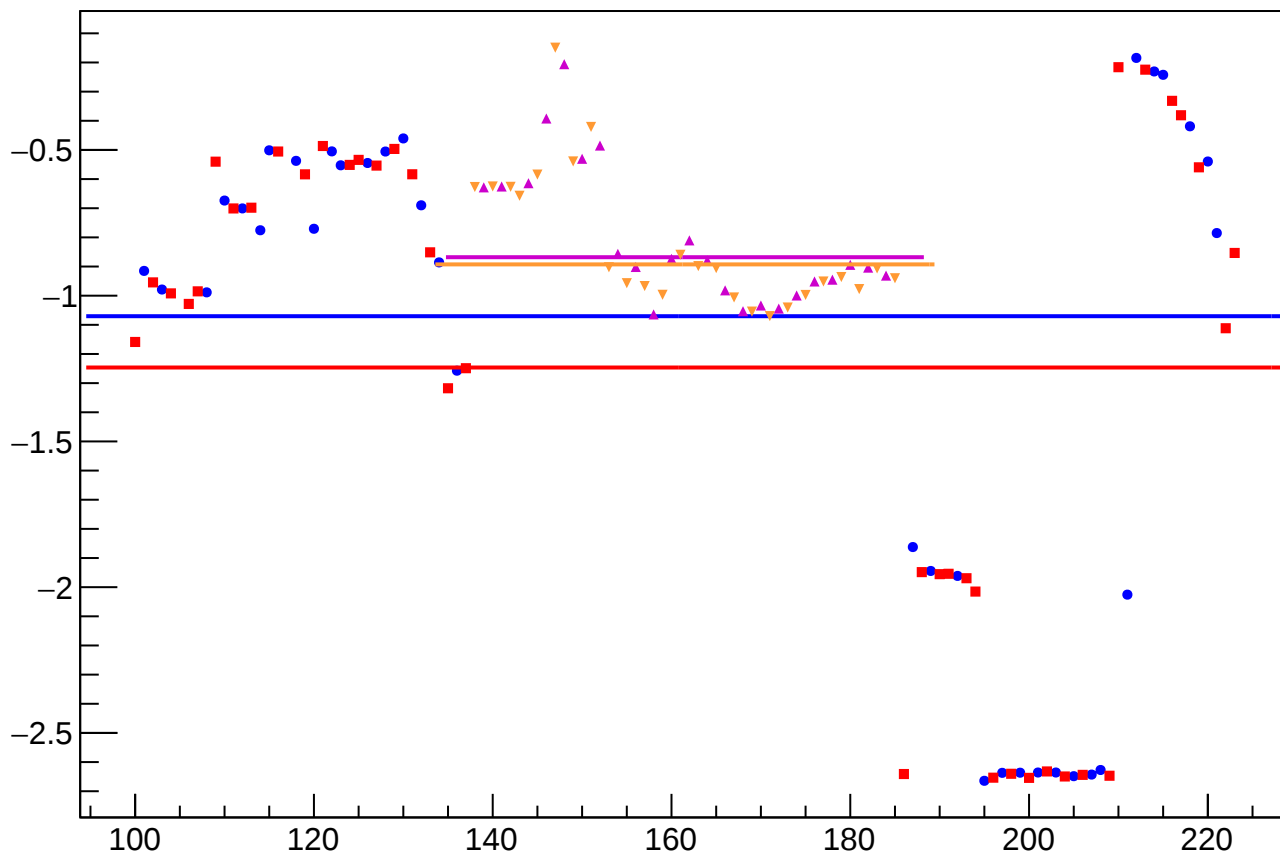
Right: 0.004+/-0.000 χ^2/NDF : 4191235.6/73

In: 0.004+/-0.000 χ^2/NDF :2301083.7/57

Out: 0.004+/-0.000 χ^2/NDF :2163391.1/63

All: 0.004+/-0.000 χ^2/NDF : 4464586.2/121

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.070+/-0.000

χ^2/NDF : 588441028080.6/34

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right: -1.167+/-0.000

χ^2/NDF : 1305128357741.0/7

Right Out: -1.246+/-0.000

χ^2/NDF : 702888697737.0/38

In: -0.953+/-0.000

χ^2/NDF : 651597494771.3/57

Out: -1.057+/-0.000

χ^2/NDF : 809279765431.5/63

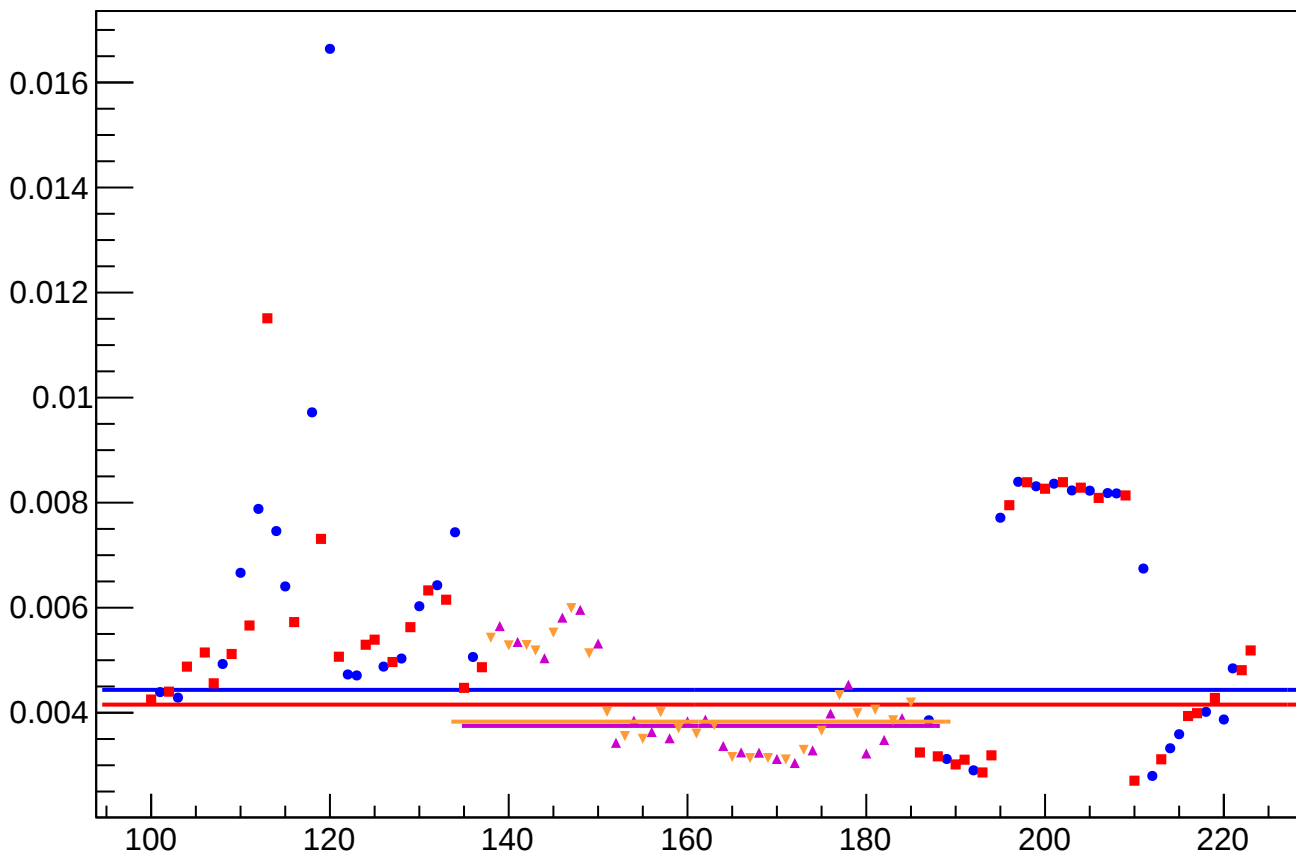
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.008+/-0.000

χ^2/NDF : 1471766793051

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 5126802.4/34

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4776969.4/38

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

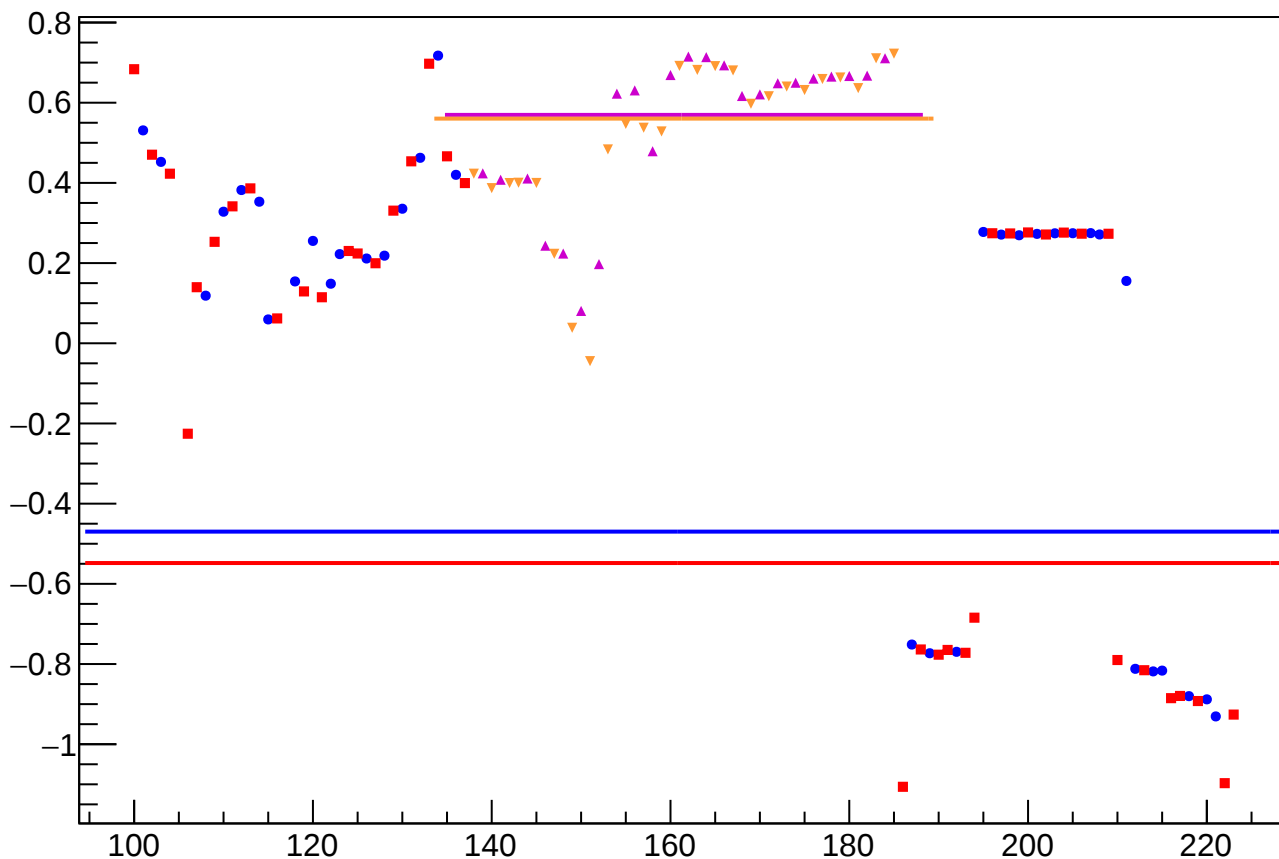
Right: 0.004+/-0.000 χ^2/NDF : 9973968.7/73

In: 0.004+/-0.000 χ^2/NDF :6859533.0/57

Out: 0.004+/-0.000 χ^2/NDF :6066850.7/63

All: 0.004+/-0.000 χ^2/NDF : 12932969.3/121

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.470 ± 0.000 $\chi^2/\text{NDF}: 601217607629.7/34$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.548 ± 0.000 $\chi^2/\text{NDF}: 652001052470.2/38$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

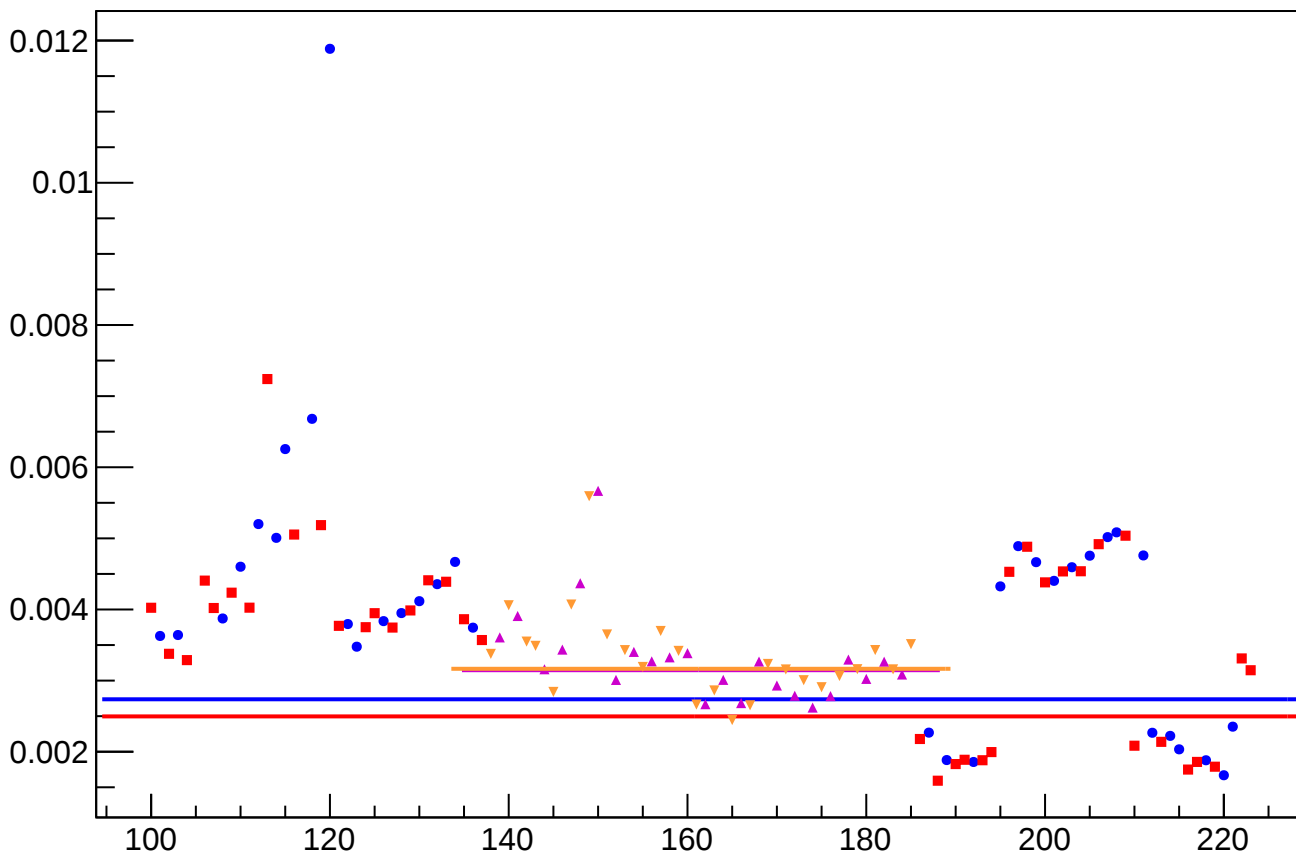
Right: -0.513 ± 0.000 $\chi^2/\text{NDF}: 1260210480135.0/7$

In: -0.022 ± 0.000 $\chi^2/\text{NDF}: 1600717858961.0/57$

Out: -0.118 ± 0.000 $\chi^2/\text{NDF}: 1914435661623.7/63$

All: -0.073 ± 0.000 $\chi^2/\text{NDF}: 3533156151149$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5832253.0/34

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5920564.1/38

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

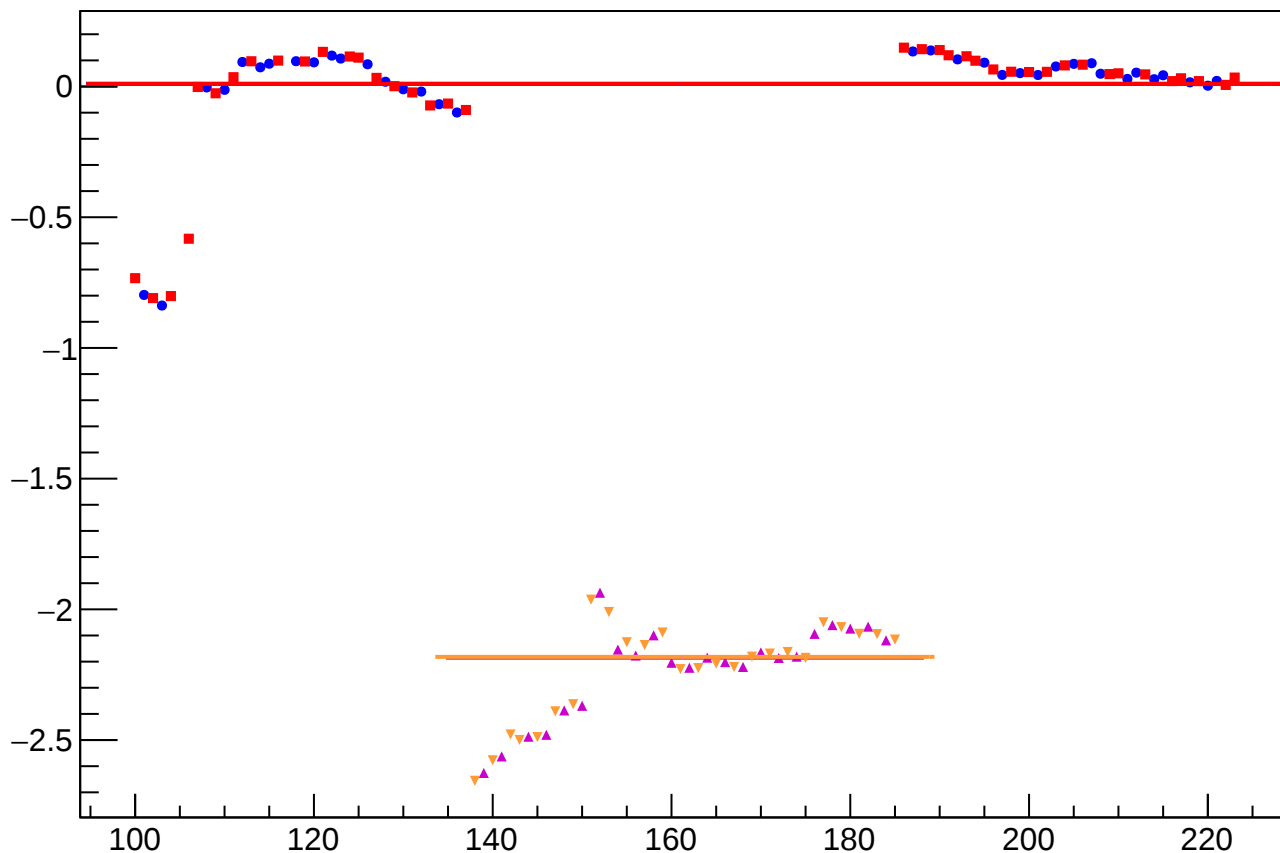
Right: 0.003+/-0.000 χ^2/NDF : 11884655.5/73

In: 0.003+/-0.000 χ^2/NDF : 6845339.8/57

Out: 0.003+/-0.000 χ^2/NDF : 7553389.7/63

All: 0.003+/-0.000 χ^2/NDF : 14494504.6/121

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 5918739677.6/34

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: 0.010+/-0.000 χ^2/NDF : 6989079470.8/38

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

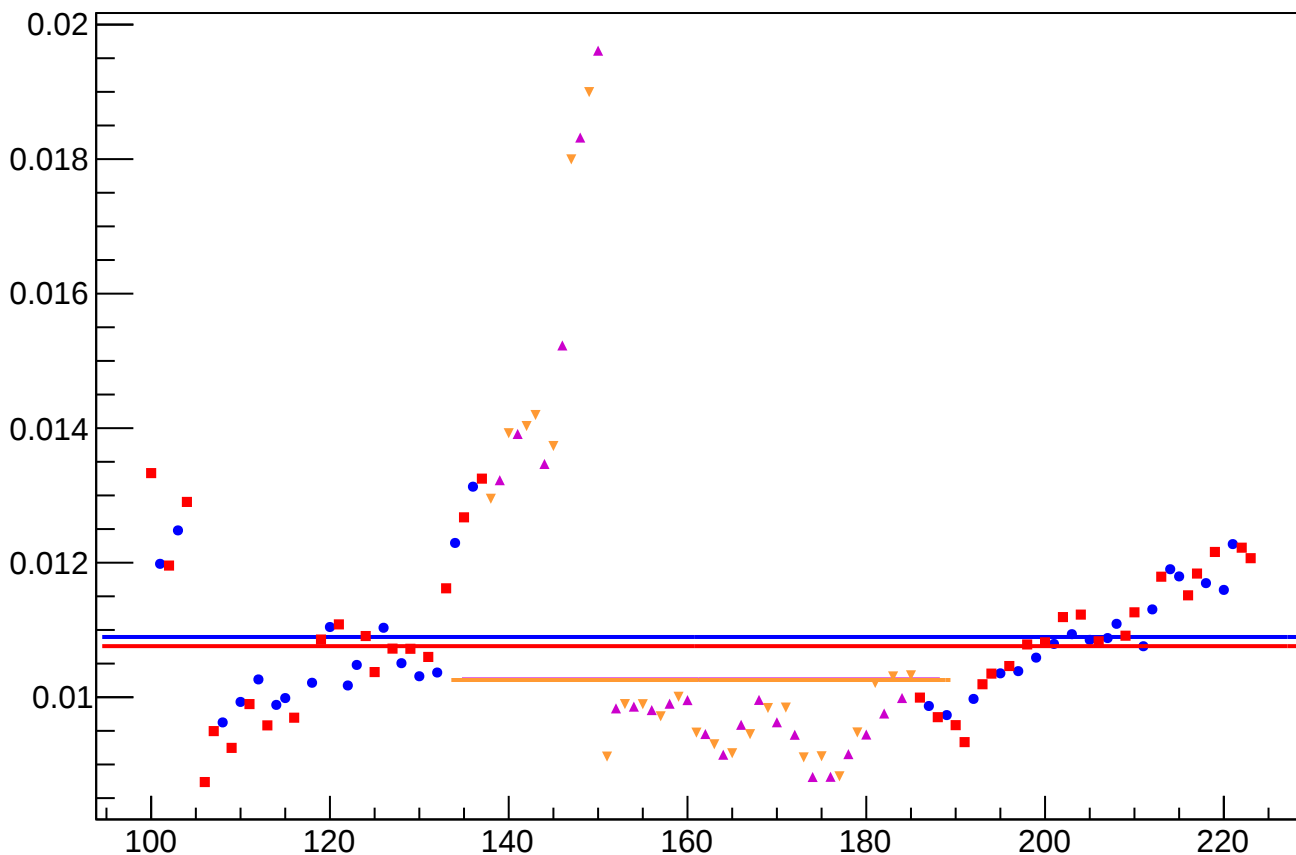
Right: 0.010+/-0.000 χ^2/NDF : 12907824916.9/73

In: -1.058+/-0.000 χ^2/NDF : 398513974041.1/57

Out: -1.060+/-0.000 χ^2/NDF : 423624207616.1/63

All: -1.059+/-0.000 χ^2/NDF : 822138498501.9

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 224204.3/34

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 328058.3/38

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

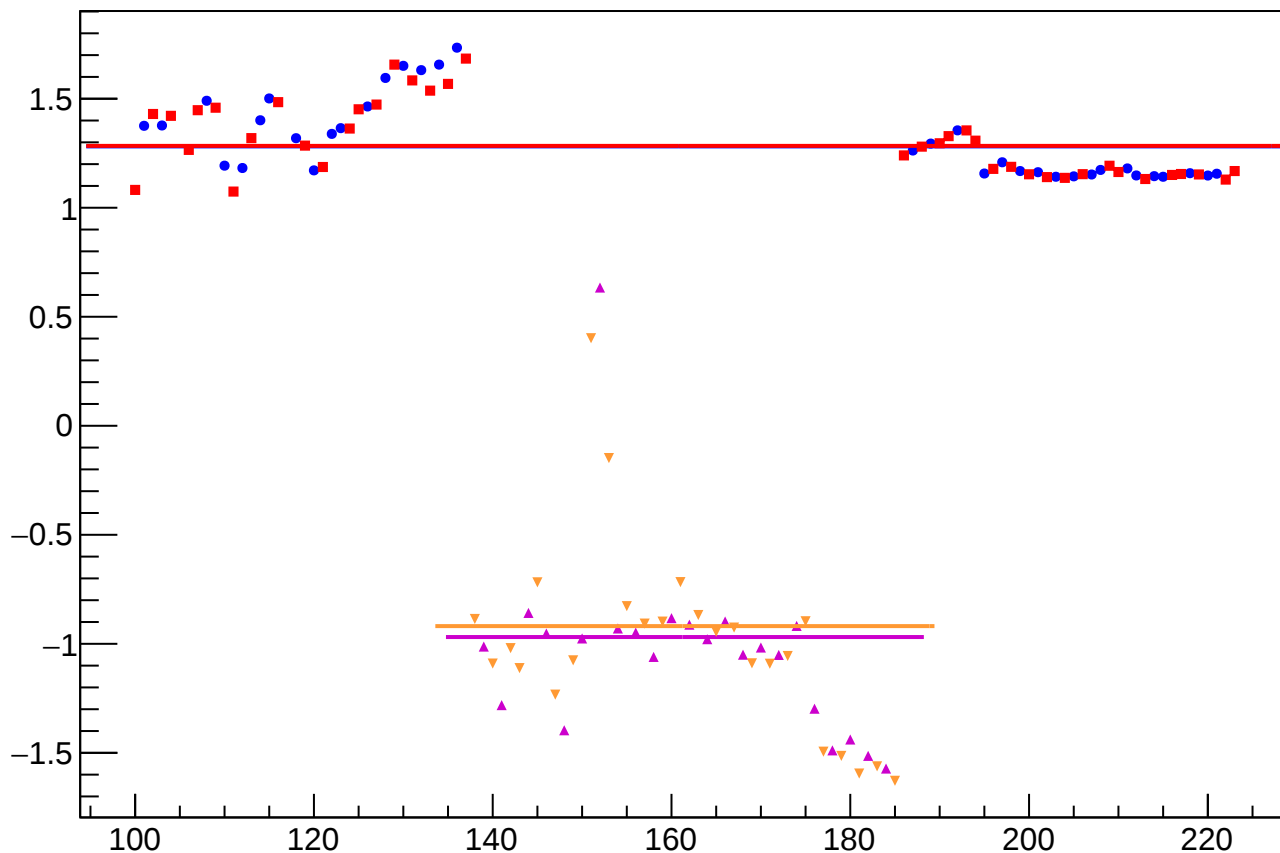
Right: 0.011+/-0.000 χ^2/NDF : 555425.5/73

In: 0.011+/-0.000 χ^2/NDF :1628813.1/57

Out: 0.011+/-0.000 χ^2/NDF :1642204.8/63

All: 0.011+/-0.000 χ^2/NDF : 3272869.0/121

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.281+/-0.000 χ^2/NDF : 9132254782.4/34

Left Out: -0.919+/-0.000 χ^2/NDF : 55622252895.8/24

Right Out: 1.284+/-0.000 χ^2/NDF : 7396483860.3/38

Left In: -0.969+/-0.000 χ^2/NDF : 54895002535.8/22

Left: -0.943+/-0.000 χ^2/NDF : 110825900215.1/47

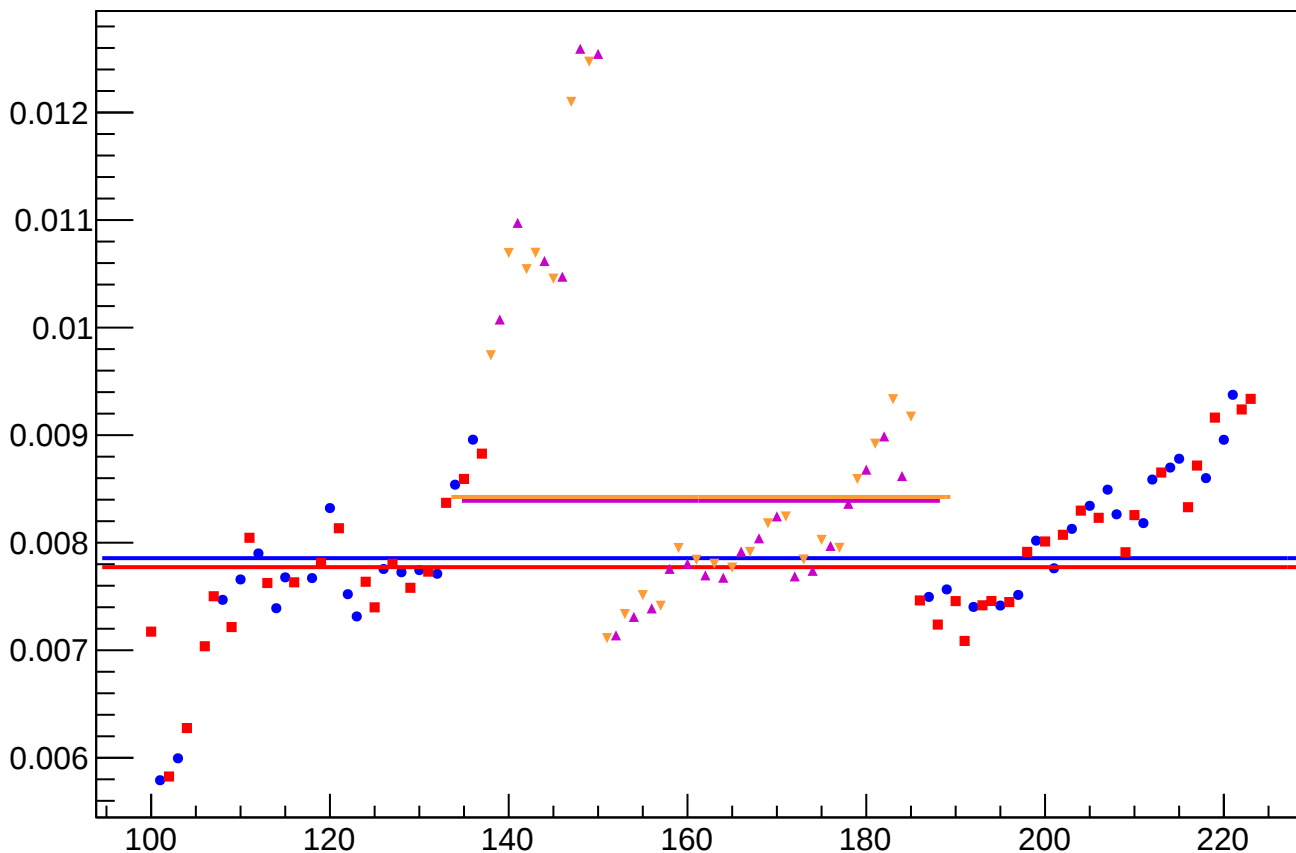
Right: 1.283+/-0.000 χ^2/NDF : 16529636730.4/73

In: 0.314+/-0.000 χ^2/NDF : 755402488034.0/57

Out: 0.342+/-0.000 χ^2/NDF : 763434006421.4/63

All: 0.329+/-0.000 χ^2/NDF : 1519065973333.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 456472.8/34

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 396826.6/38

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

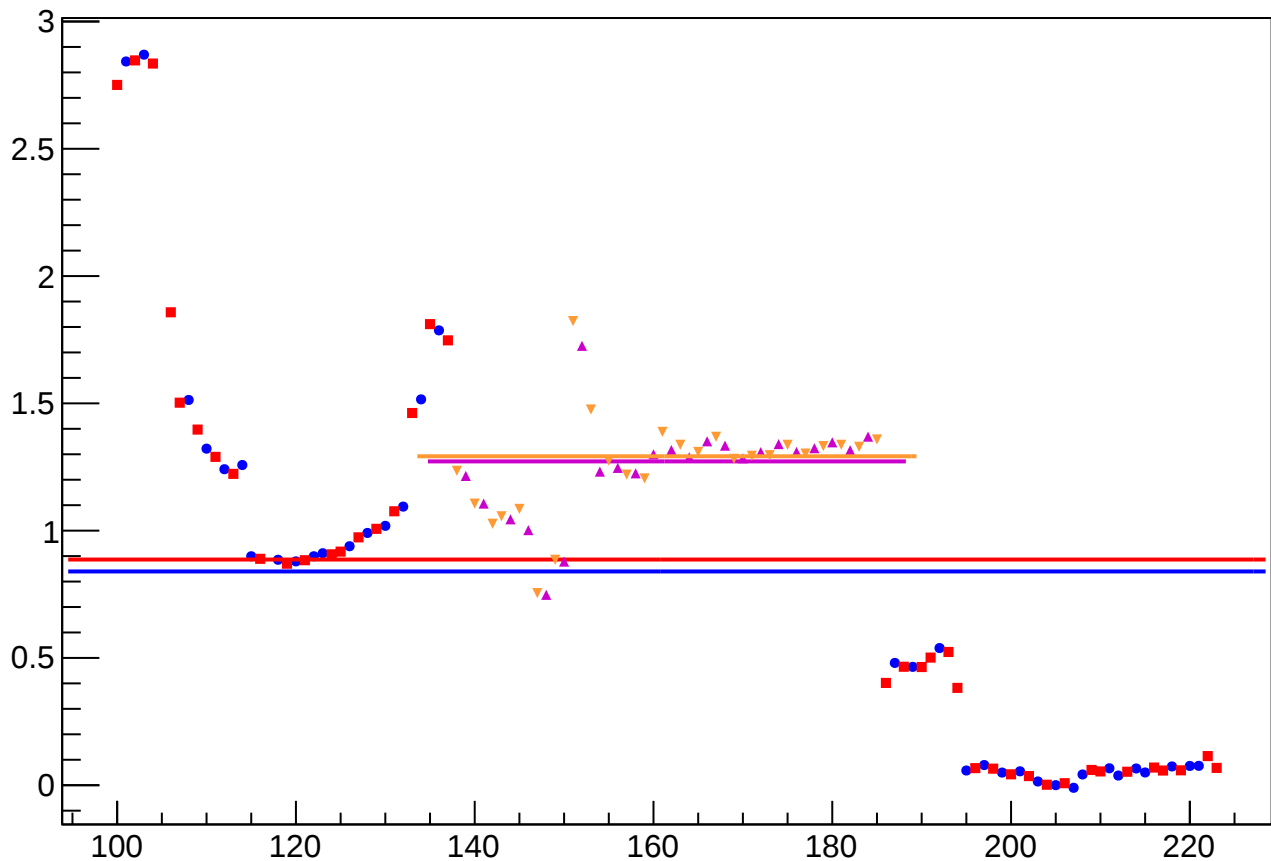
Right: 0.008+/-0.000 χ^2/NDF : 855593.7/73

In: 0.008+/-0.000 χ^2/NDF : 1373978.3/57

Out: 0.008+/-0.000 χ^2/NDF : 1312259.4/63

All: 0.008+/-0.000 χ^2/NDF : 2686894.5/121

yield_bpm1i04X_mean vs Slug, Sign Corrected



Left: 1.282 $\pm$ 0.000 χ^2/NDF : 16930321584.4/47

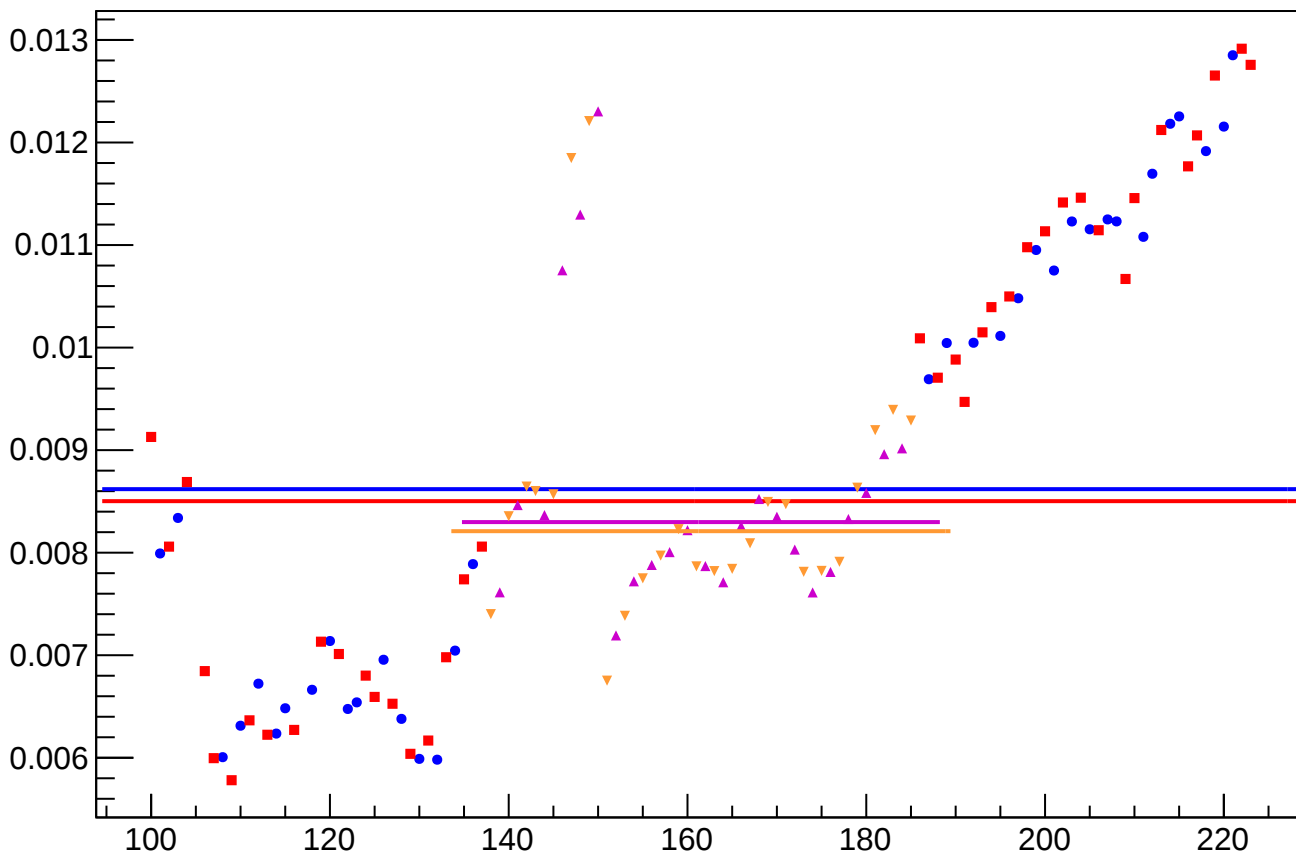
Right: 0.864 $\pm$ 0.000 χ^2/NDF : 301409378880.1/73

In: 1.053 $\pm$ 0.000 χ^2/NDF : 183483326979.1/57

Out: 1.088 $\pm$ 0.000 χ^2/NDF : 179257458674.1/63

All: 1.071 $\pm$ 0.000 χ^2/NDF : 363054022565.4

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2626385.5/34

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2797292.4/38

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

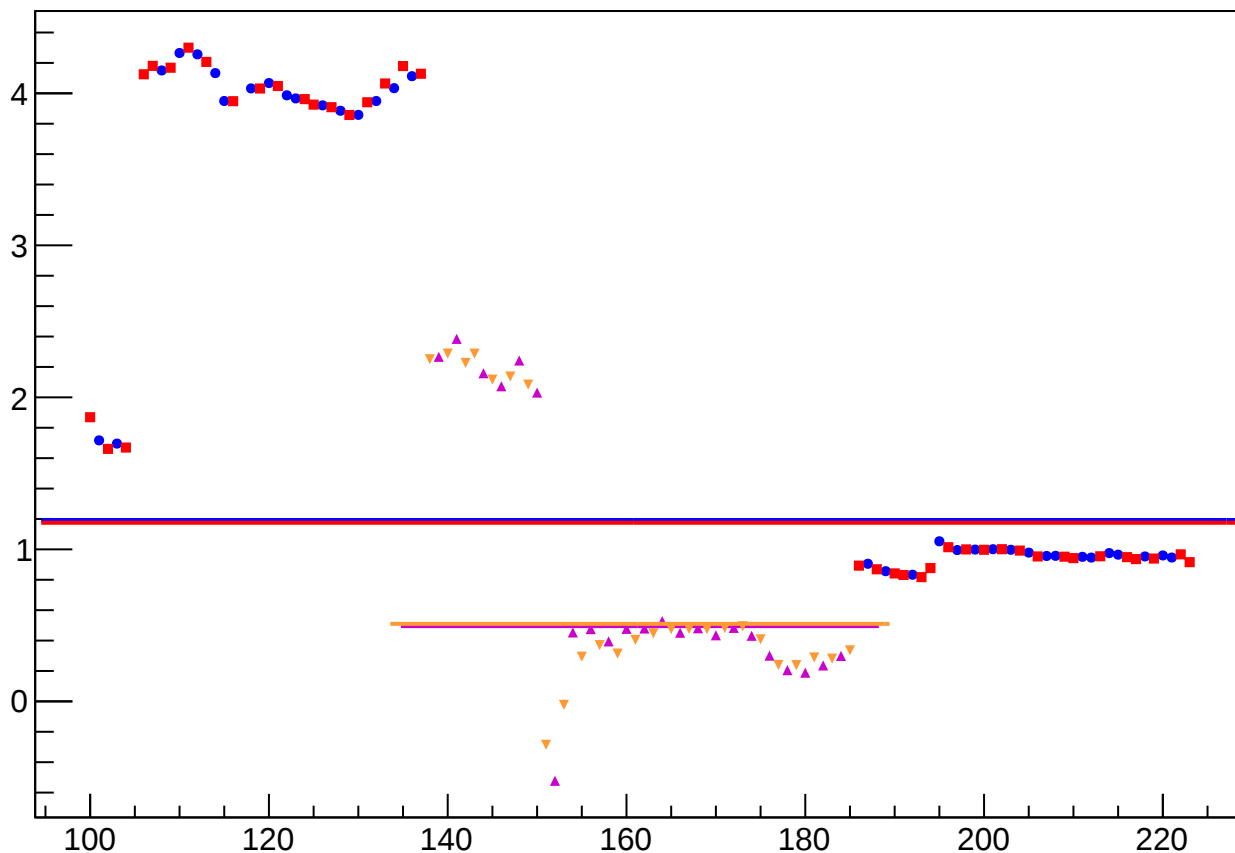
Right: 0.009+/-0.000 χ^2/NDF : 5427201.3/73

In: 0.008+/-0.000 χ^2/NDF : 3113818.4/57

Out: 0.008+/-0.000 χ^2/NDF : 3298794.5/63

All: 0.008+/-0.000 χ^2/NDF : 6418138.6/121

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.193+/-0.000

χ^2/NDF : 1559053231102.7/34

Left Out: 0.510+/-0.000

χ^2/NDF : 274818814912.4/24

Right Out: 1.175+/-0.000

χ^2/NDF : 1749279787588.2/38

Left In: 0.495+/-0.000

χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

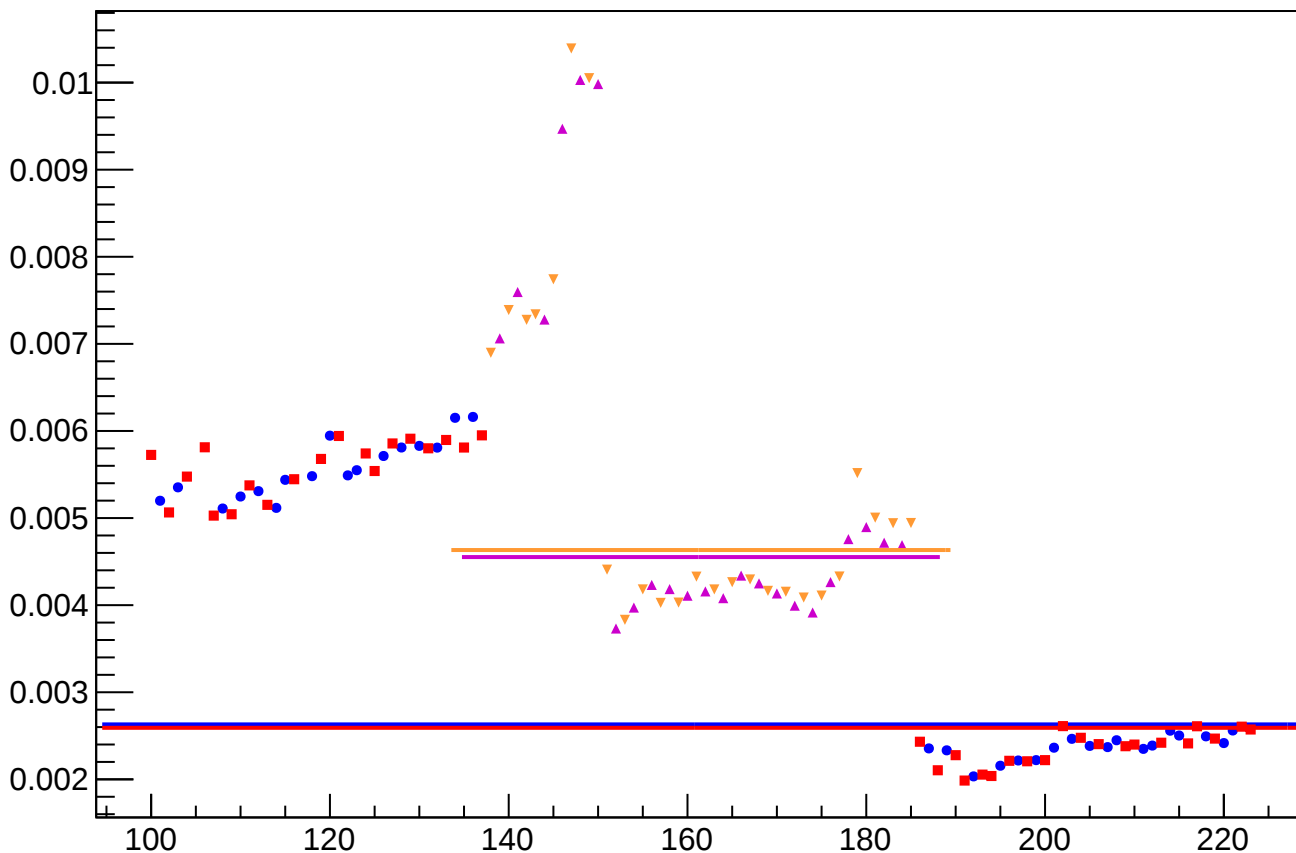
Right: 1.184+/-0.000 χ^2/NDF : 3308742240222.0/73

In: 1.027+/-0.000 χ^2/NDF : 2109479907410.3/57

Out: 1.021+/-0.000 χ^2/NDF : 2288251814771.3/63

All: 1.024+/-0.000 χ^2/NDF : 4397787477869.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4210911.9/34

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4485779.9/38

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

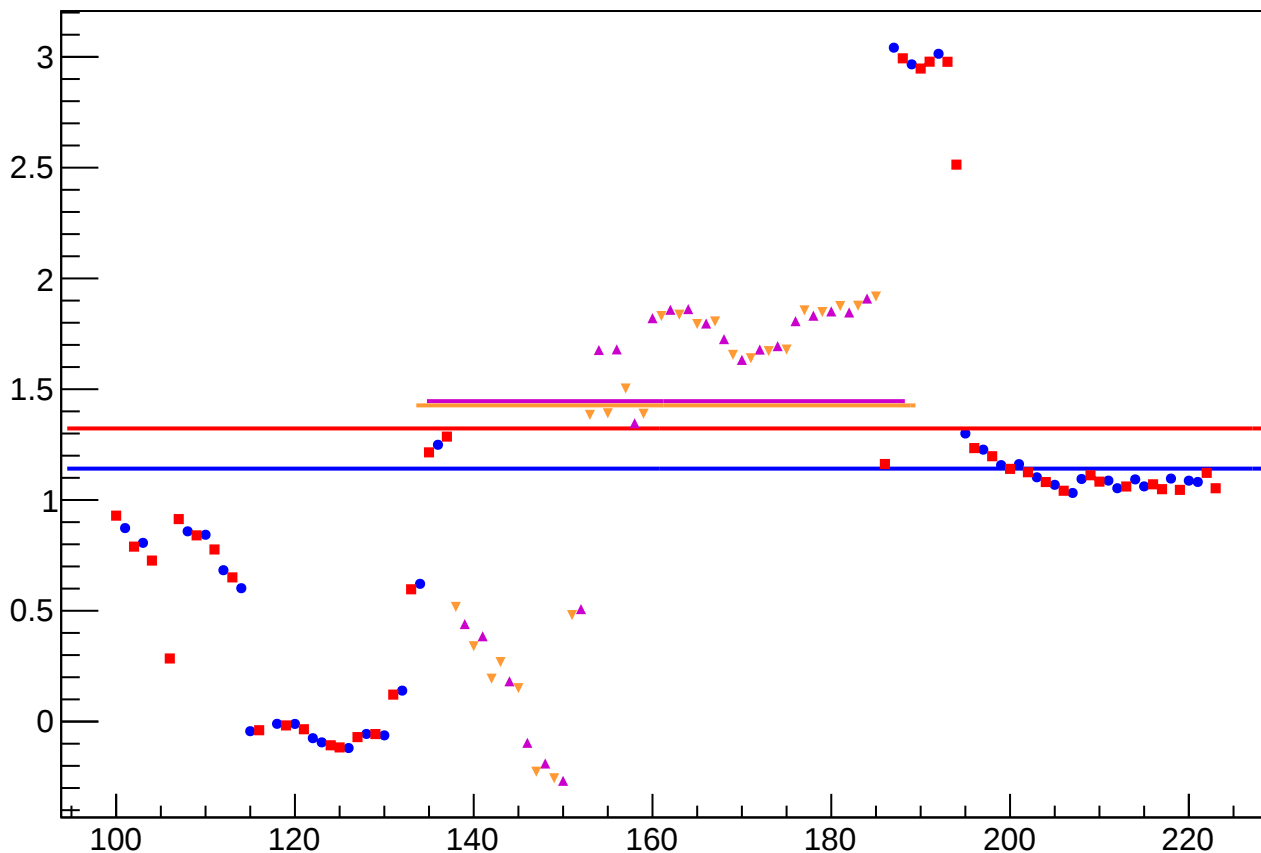
Right: 0.003+/-0.000 χ^2/NDF : 8700528.1/73

In: 0.003+/-0.000 χ^2/NDF :10714929.7/57

Out: 0.003+/-0.000 χ^2/NDF :11577343.1/63

All: 0.003+/-0.000 χ^2/NDF : 22294176.1/121

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.142 $\pm$ 0.000 χ^2 /NDF: 72940795543.5/34

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.323 $\pm$ 0.000 χ^2 /NDF: 102416703278.1/38

Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

Left: 1.436 $\pm$ 0.000 χ^2 /NDF: 103768857952.7/47

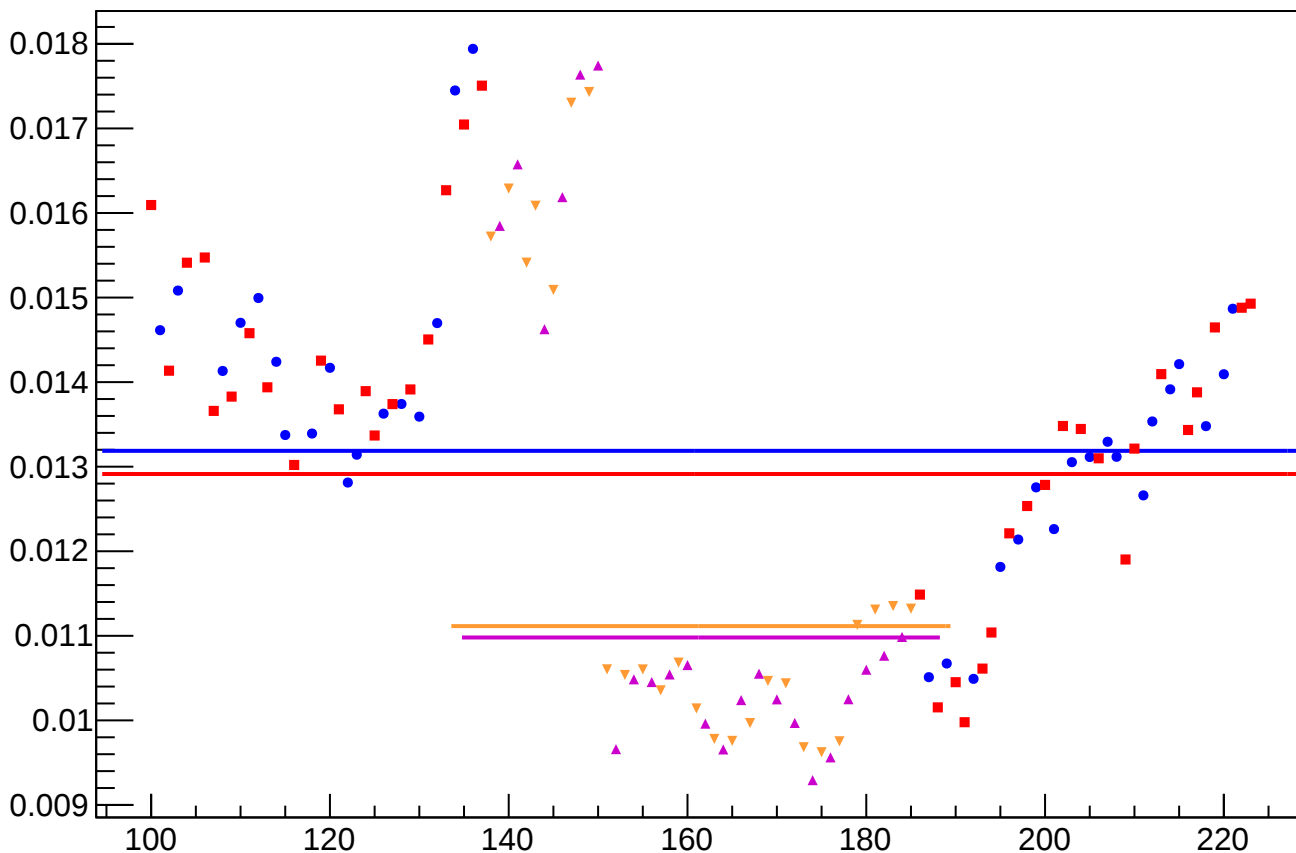
Right: 1.235 $\pm$ 0.000 χ^2 /NDF: 177262826504.3/73

In: 1.309 $\pm$ 0.000 χ^2 /NDF: 132414942641.6/57

Out: 1.379 $\pm$ 0.000 χ^2 /NDF: 153112891237.0/63

All: 1.345 $\pm$ 0.000 χ^2 /NDF: 286153845243.3

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 488390.2/34

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 664701.7/38

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

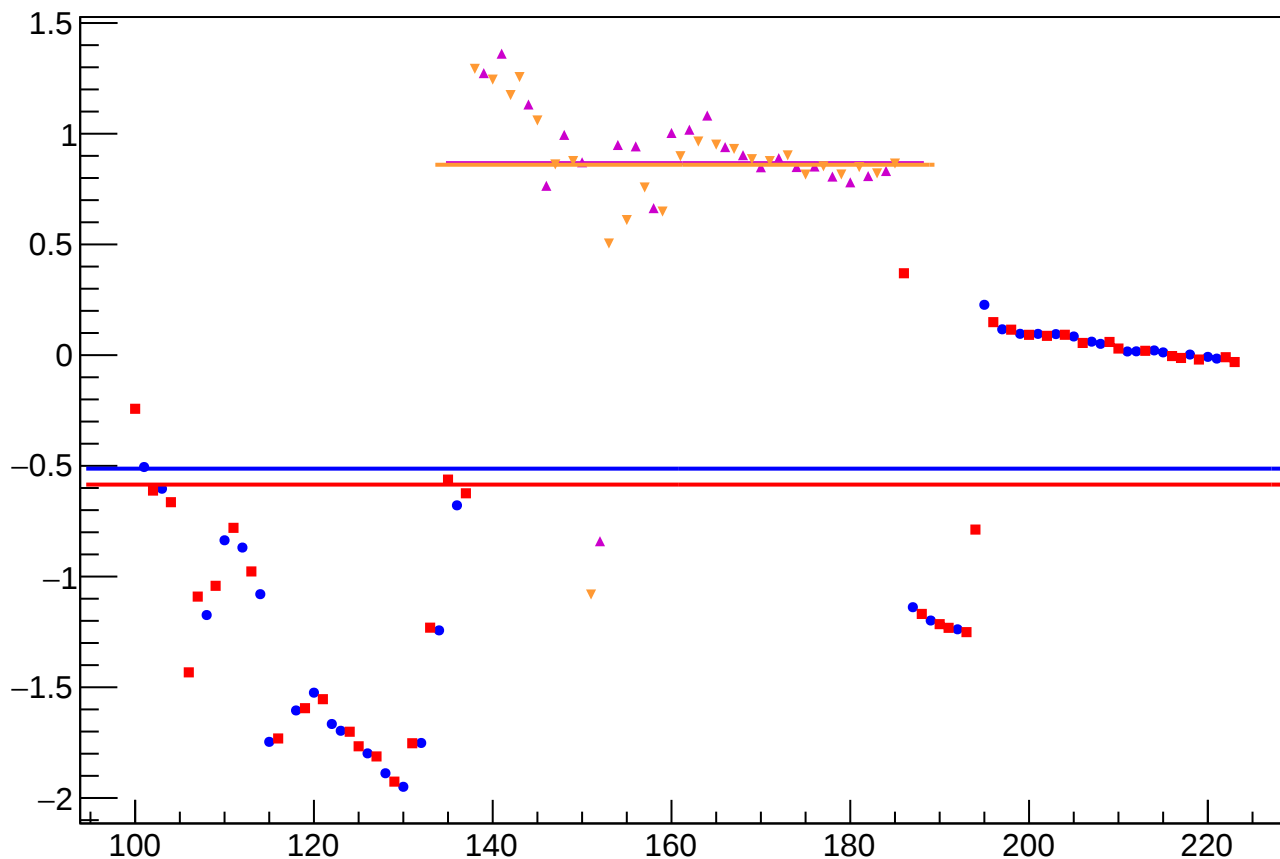
Right: 0.013+/-0.000 χ^2/NDF : 1161798.9/73

In: 0.012+/-0.000 χ^2/NDF :2354251.9/57

Out: 0.012+/-0.000 χ^2/NDF :2313435.9/63

All: 0.012+/-0.000 χ^2/NDF : 4667970.3/121

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.513+/-0.000

χ^2/NDF : 211775255832.6/34

Left Out: 0.860+/-0.000

χ^2/NDF : 126335891175.4/24

Right Out: -0.585+/-0.000

χ^2/NDF : 201755339732.0/38

Left In: 0.867+/-0.000

χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

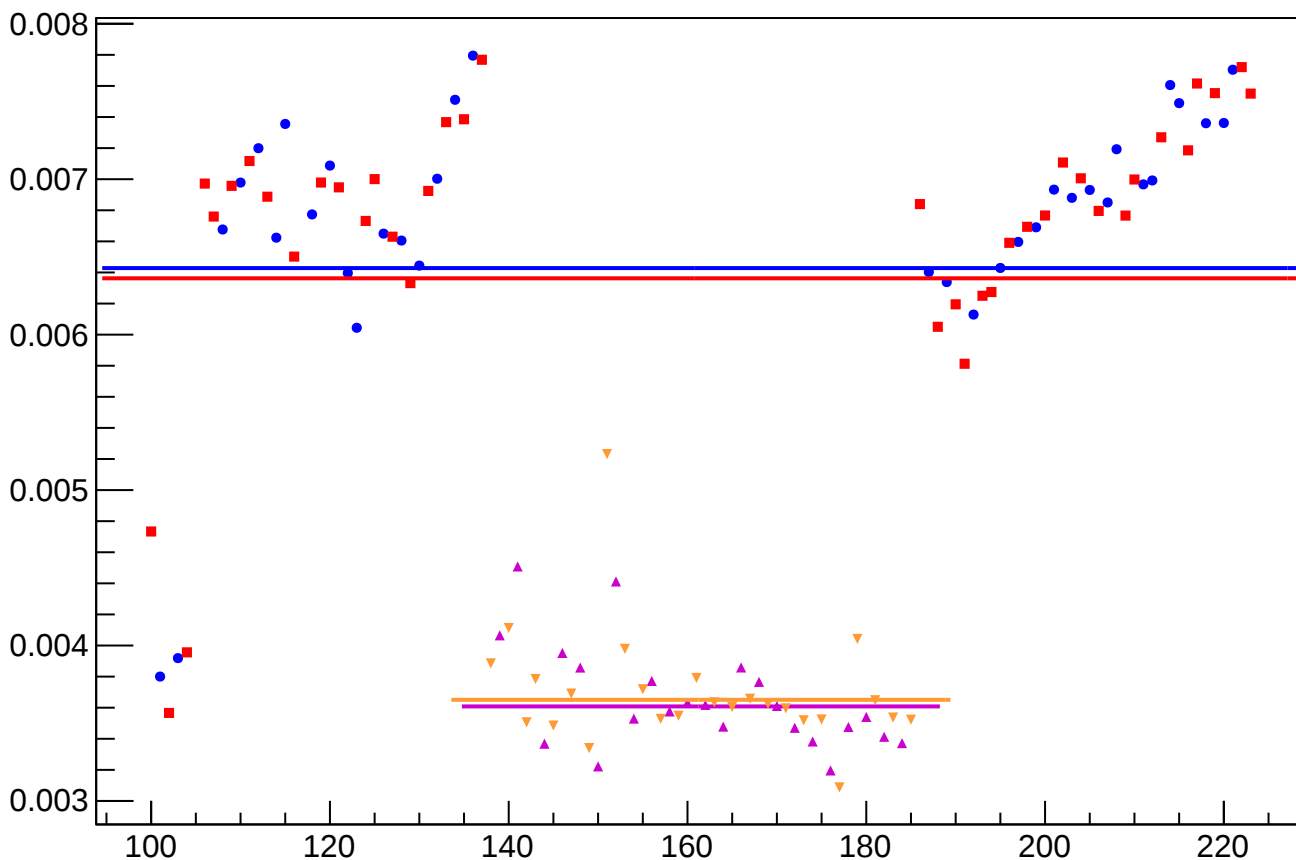
Right: -0.550+/-0.000 χ^2/NDF : 414720004113.7/73

In: 0.494+/-0.000 χ^2/NDF : 980009510057.7/57

Out: 0.465+/-0.000 χ^2/NDF : 1042786489646.7/63

All: 0.479+/-0.000 χ^2/NDF : 2023509041202.0/137

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1250954.9/34

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1338692.3/38

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

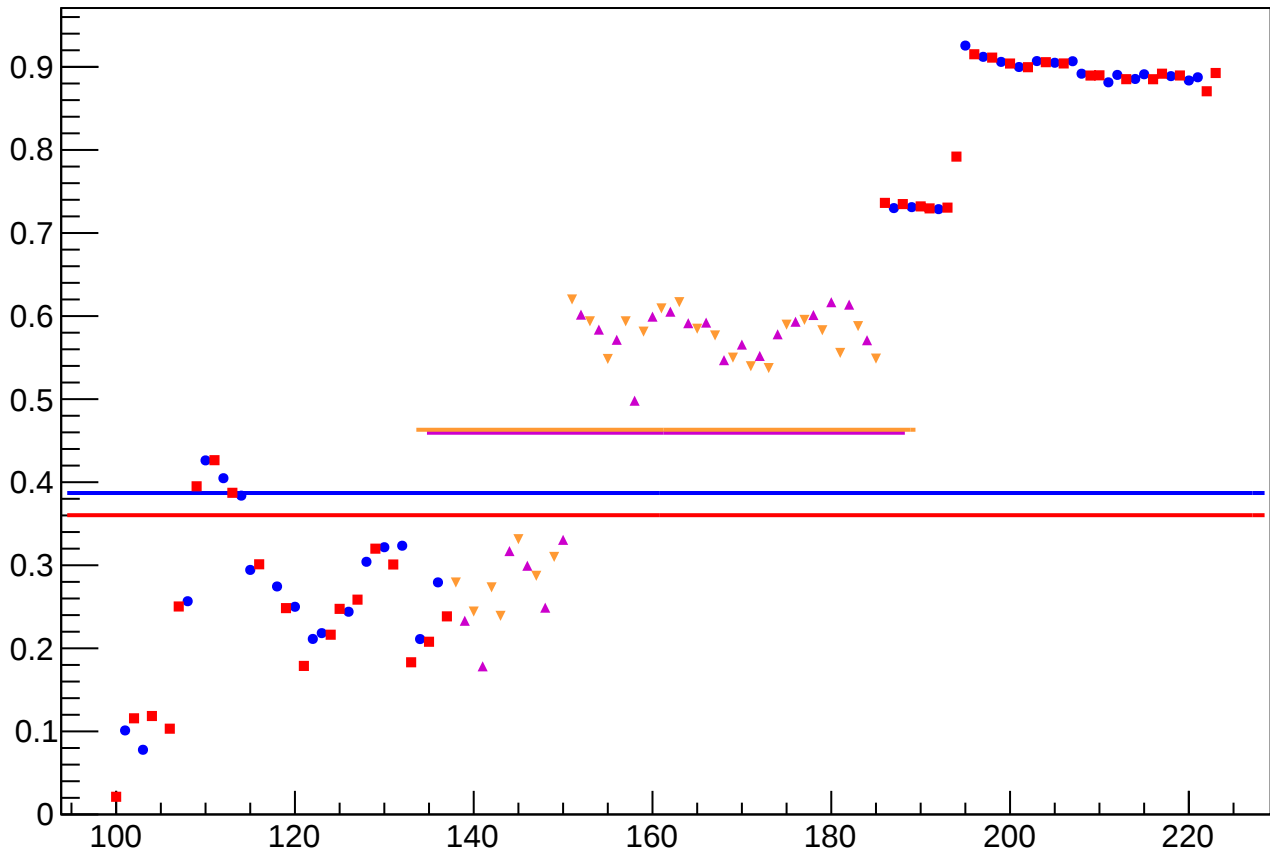
Right: 0.006+/-0.000 χ^2/NDF : 2591632.1/73

In: 0.004+/-0.000 χ^2/NDF :6668567.7/57

Out: 0.004+/-0.000 χ^2/NDF :6613045.5/63

All: 0.004+/-0.000 χ^2/NDF : 13282385.1/121

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2 /NDF: 221852534947.9/34

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF:102506270538.7/24

Right Out: 0.360 $\pm$ 0.000 χ^2 /NDF: 233844301706.3/38

Left In: 0.460 $\pm$ 0.000 χ^2 /NDF:104559088628.4/22

Left: 0.461 $\pm$ 0.000 χ^2 /NDF: 207093695005.5/47

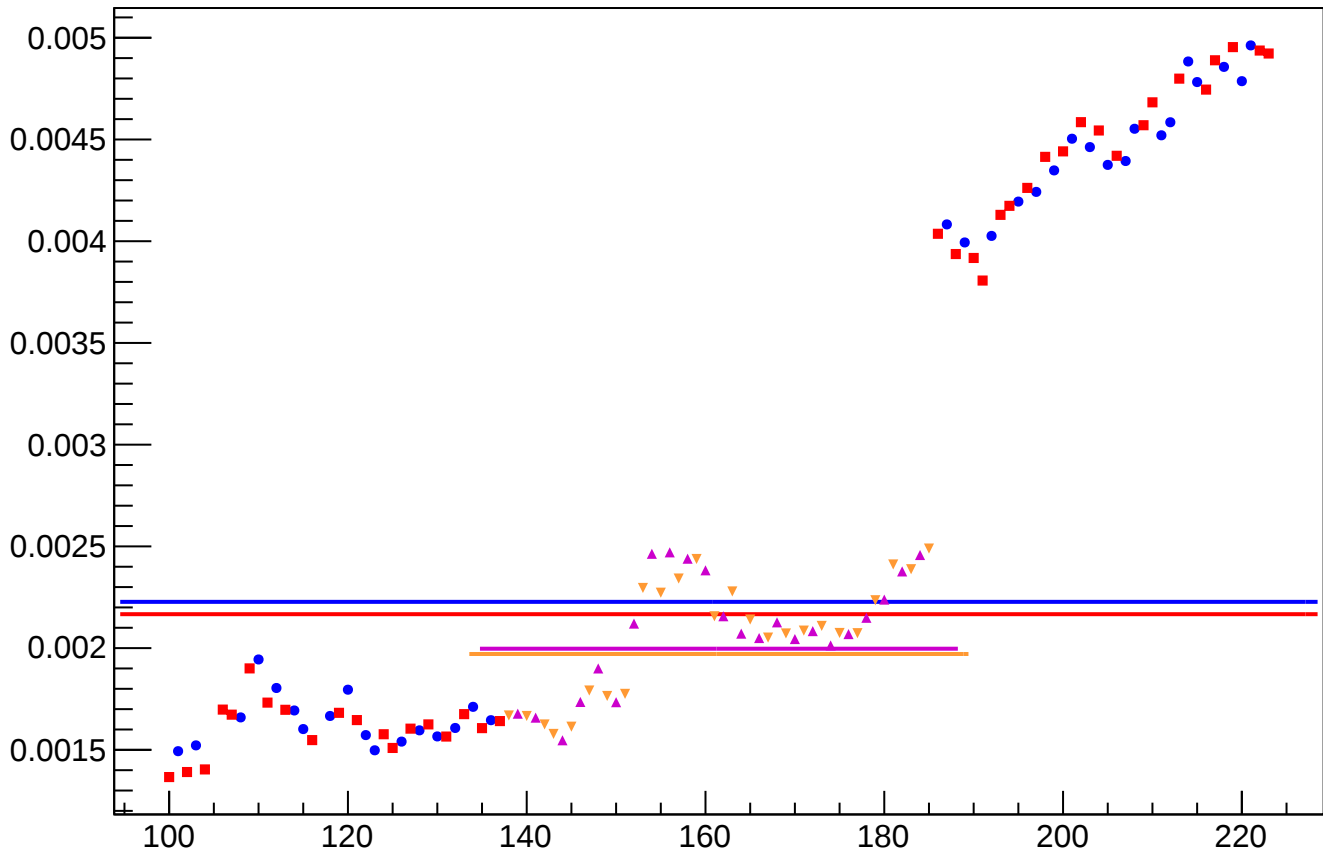
Right: 0.373 $\pm$ 0.000 χ^2 /NDF: 456851483394.9/73

In: 0.429 $\pm$ 0.000 χ^2 /NDF:335792911761.1/57

Out: 0.419 $\pm$ 0.000 χ^2 /NDF:357019772995.6/63

All: 0.424 $\pm$ 0.000 χ^2 /NDF: 693147108080.4

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8507074.3/34

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9009397.2/38

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

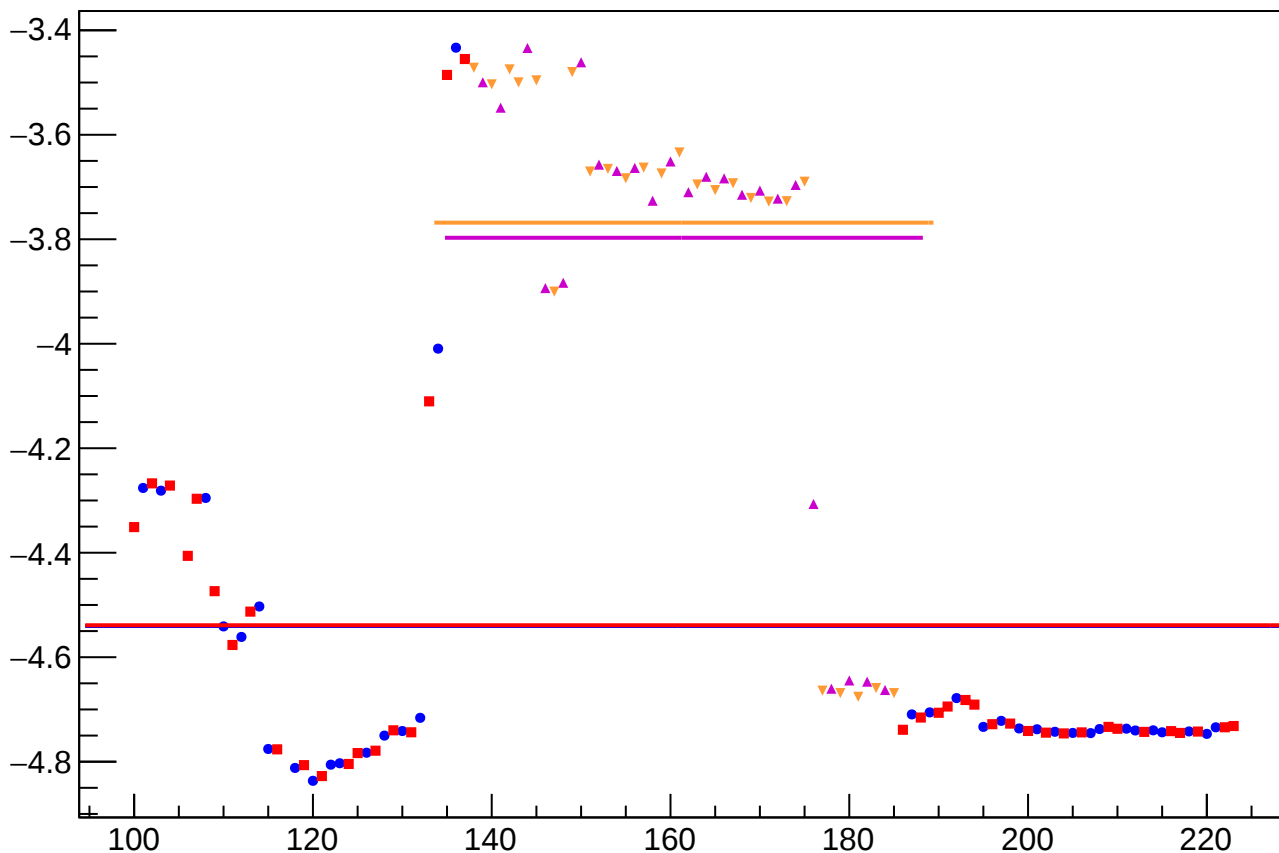
Right: 0.002+/-0.000 χ^2/NDF : 17528374.3/73

In: 0.002+/-0.000 χ^2/NDF : 9362515.4/57

Out: 0.002+/-0.000 χ^2/NDF : 9889190.6/63

All: 0.002+/-0.000 χ^2/NDF : 19264193.5/121

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.540 $\pm$ 0.000

χ^2 /NDF: 454084805680.4/34

Left Out: -3.768 $\pm$ 0.000

χ^2 /NDF: 516780173940.8/24

Right Out: -4.539 $\pm$ 0.000

χ^2 /NDF: 389168789511.2/38

Left In: -3.797 $\pm$ 0.000

χ^2 /NDF: 444886272608.9/22

Left: -3.782 $\pm$ 0.000

χ^2 /NDF: 963205684454.6/47

Right: -4.540 $\pm$ 0.000

χ^2 /NDF: 843256817040.0/73

In: -4.142 $\pm$ 0.000

χ^2 /NDF: 1808230537258.5/57

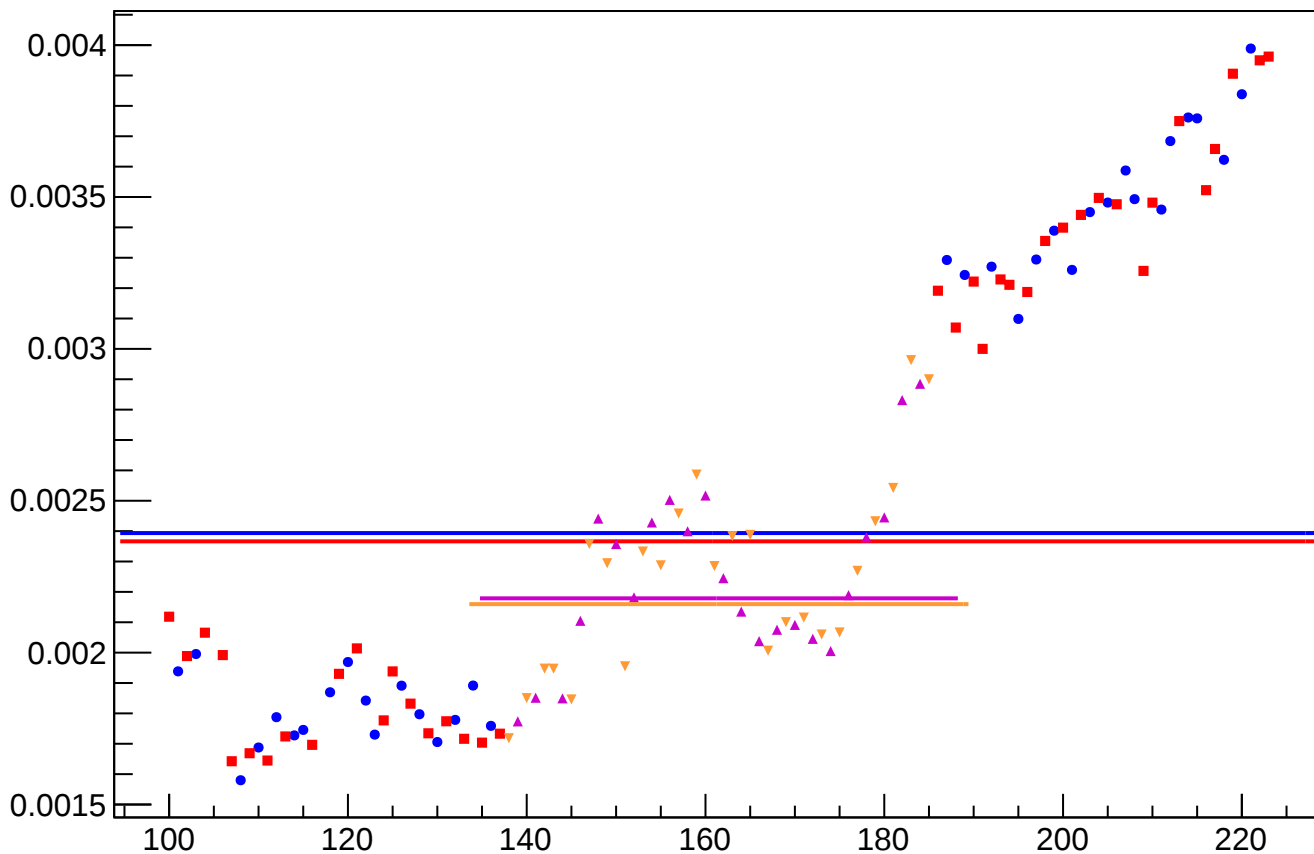
Out: -4.124 $\pm$ 0.000

χ^2 /NDF: 1952592915694.6/63

All: -4.133 $\pm$ 0.000

χ^2 /NDF: 3761858079466

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4113940.4/34

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4129490.9/38

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

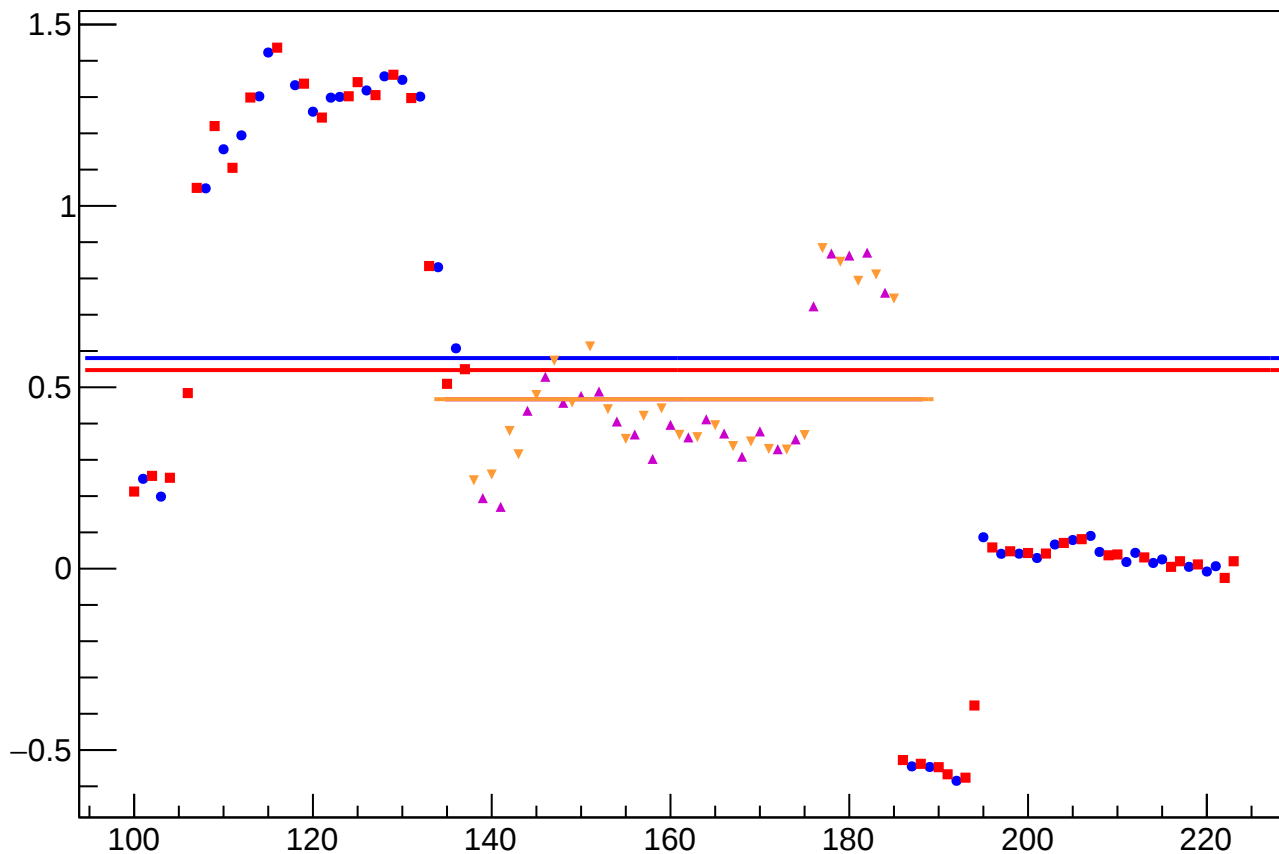
Right: 0.002+/-0.000 χ^2/NDF : 8245788.9/73

In: 0.002+/-0.000 χ^2/NDF :4729330.2/57

Out: 0.002+/-0.000 χ^2/NDF :4827968.6/63

All: 0.002+/-0.000 χ^2/NDF : 9560984.6/121

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.580+/-0.000

χ^2/NDF : 90603113170.0/34

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

Right: 0.563+/-0.000 χ^2/NDF : 198164744794.9/73

Left Out: 0.467+/-0.000

χ^2/NDF : 7359344143.3/24

In: 0.527+/-0.000 χ^2/NDF : 99968146661.5/57

Right Out: 0.547+/-0.000

χ^2/NDF : 107437123757.4/38

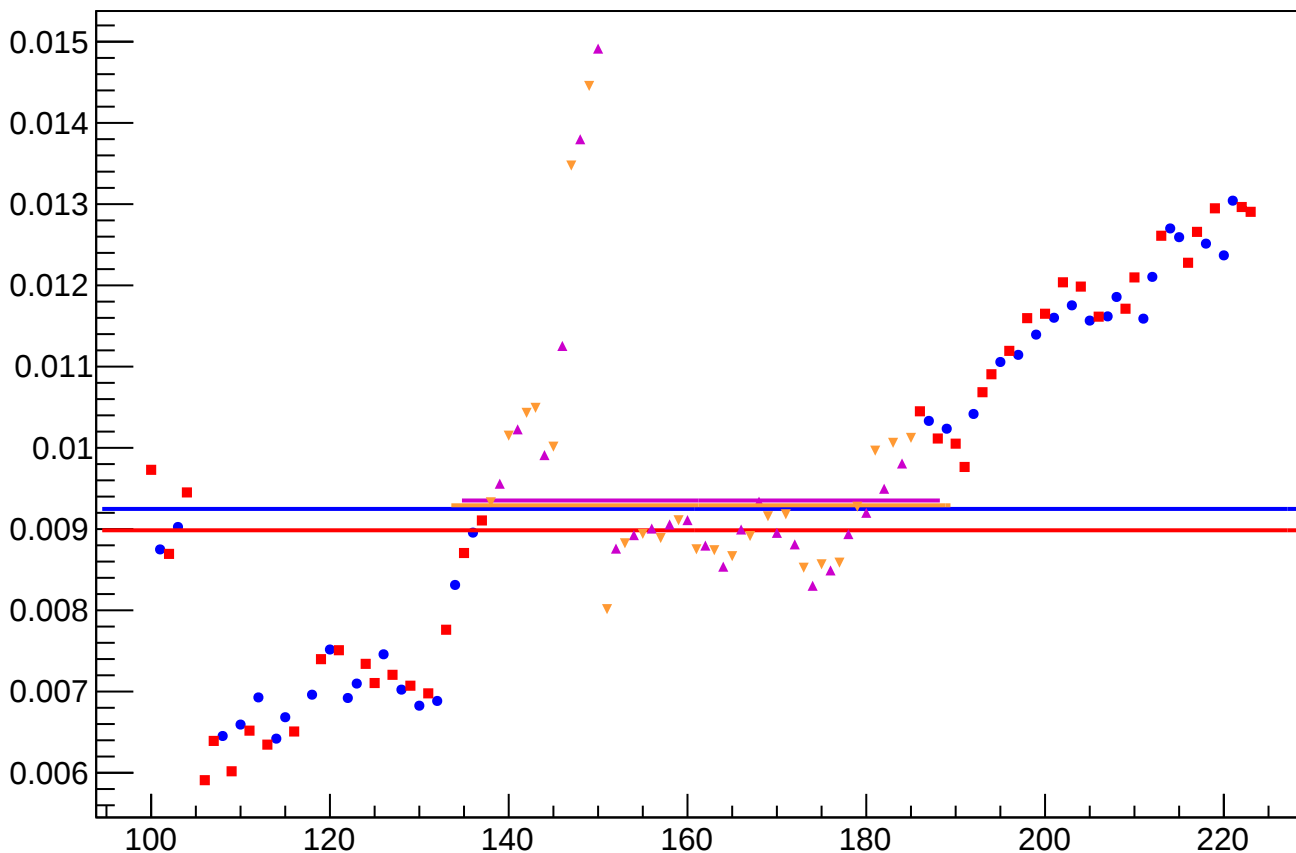
Out: 0.510+/-0.000 χ^2/NDF : 115512028927.7/63

Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.518+/-0.000 χ^2/NDF : 215542719650.2

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2282954.6/34

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2709536.8/38

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

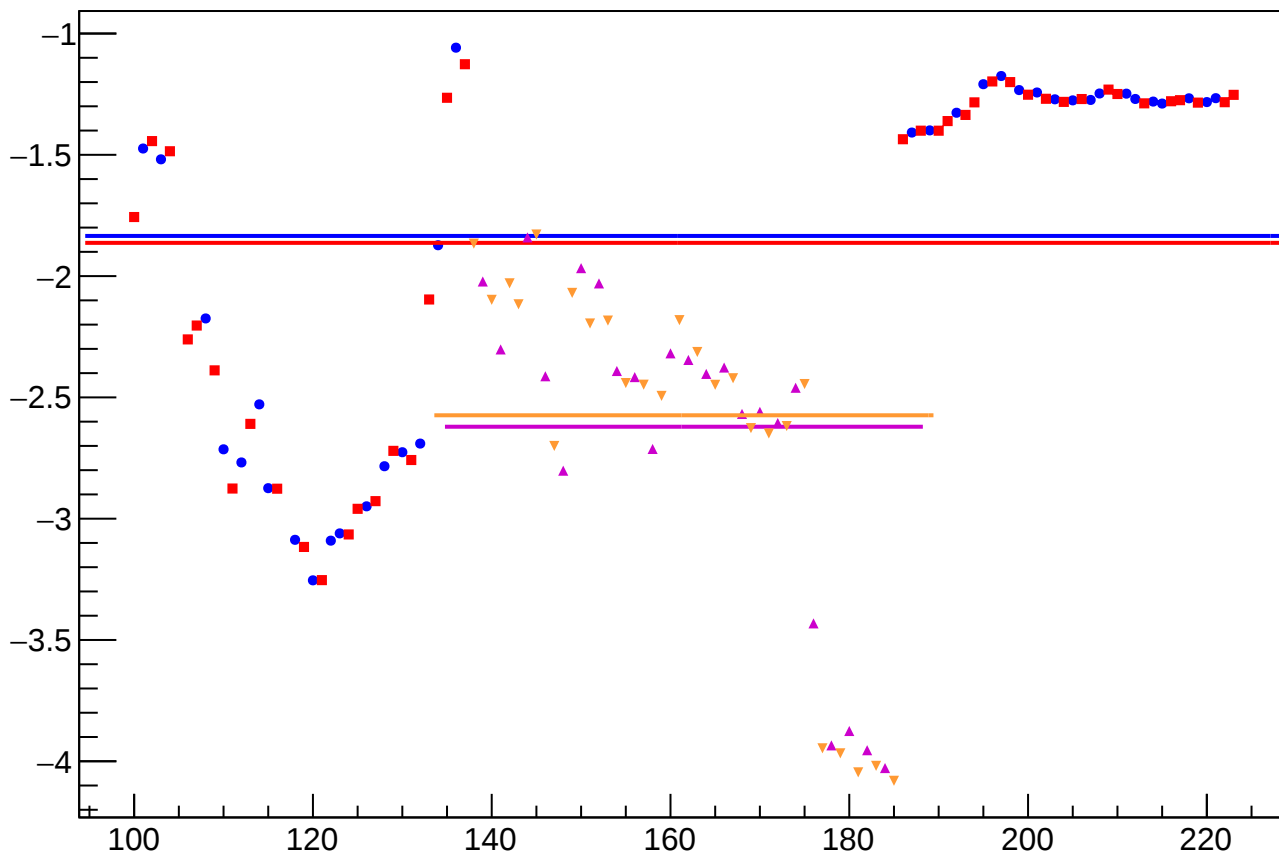
Right: 0.009+/-0.000 χ^2/NDF : 5008238.9/73

In: 0.009+/-0.000 χ^2/NDF :2842727.9/57

Out: 0.009+/-0.000 χ^2/NDF :3258877.4/63

All: 0.009+/-0.000 χ^2/NDF : 6113710.2/121

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.834+/-0.000 χ^2/NDF : 142969891711.0/34

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -1.863+/-0.000 χ^2/NDF : 140431420554.1/38

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

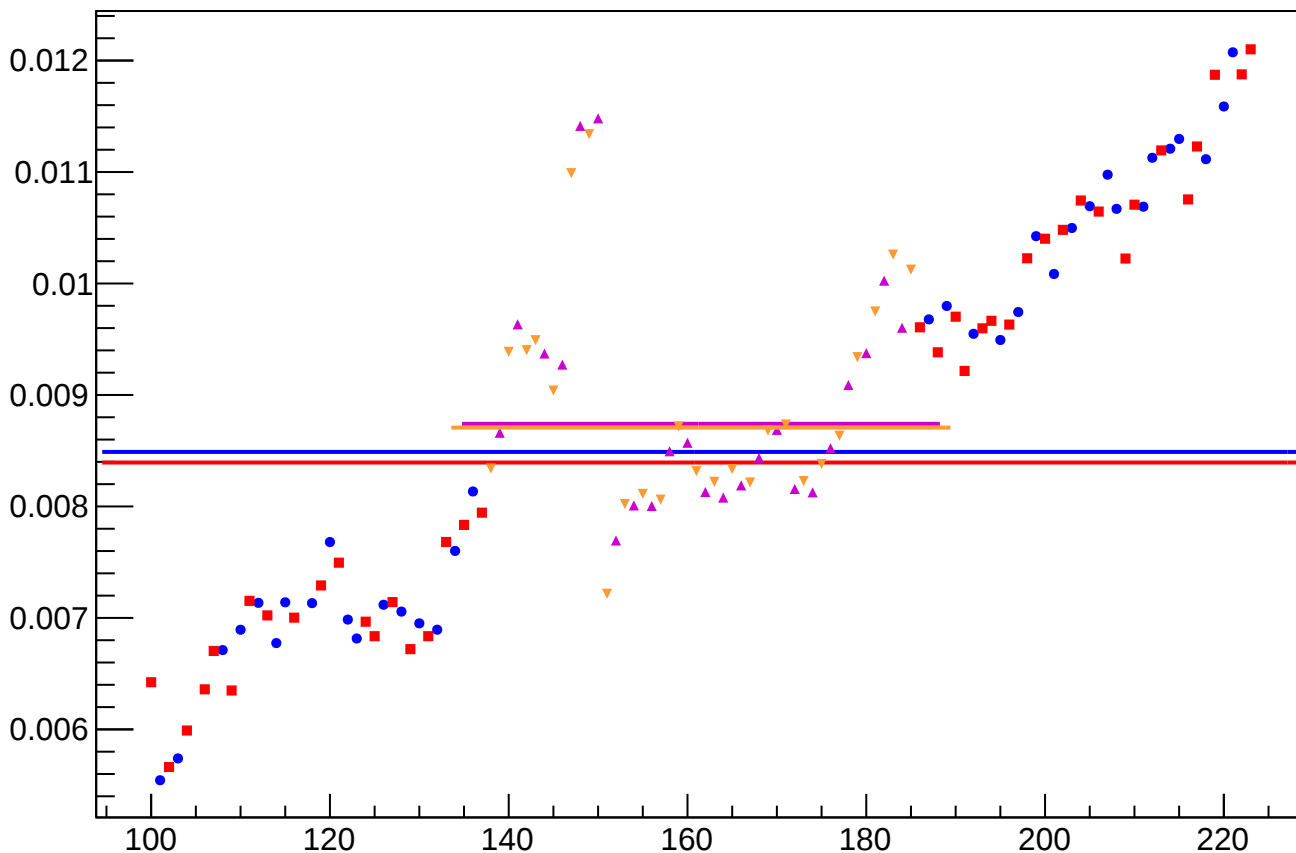
Right: -1.849+/-0.000 χ^2/NDF : 283511208222.3/73

In: -2.198+/-0.000 χ^2/NDF : 298480478778.1/57

Out: -2.191+/-0.000 χ^2/NDF : 304685737717.5/63

All: -2.194+/-0.000 χ^2/NDF : 603175562996.0

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2127813.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2070351.9/38

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

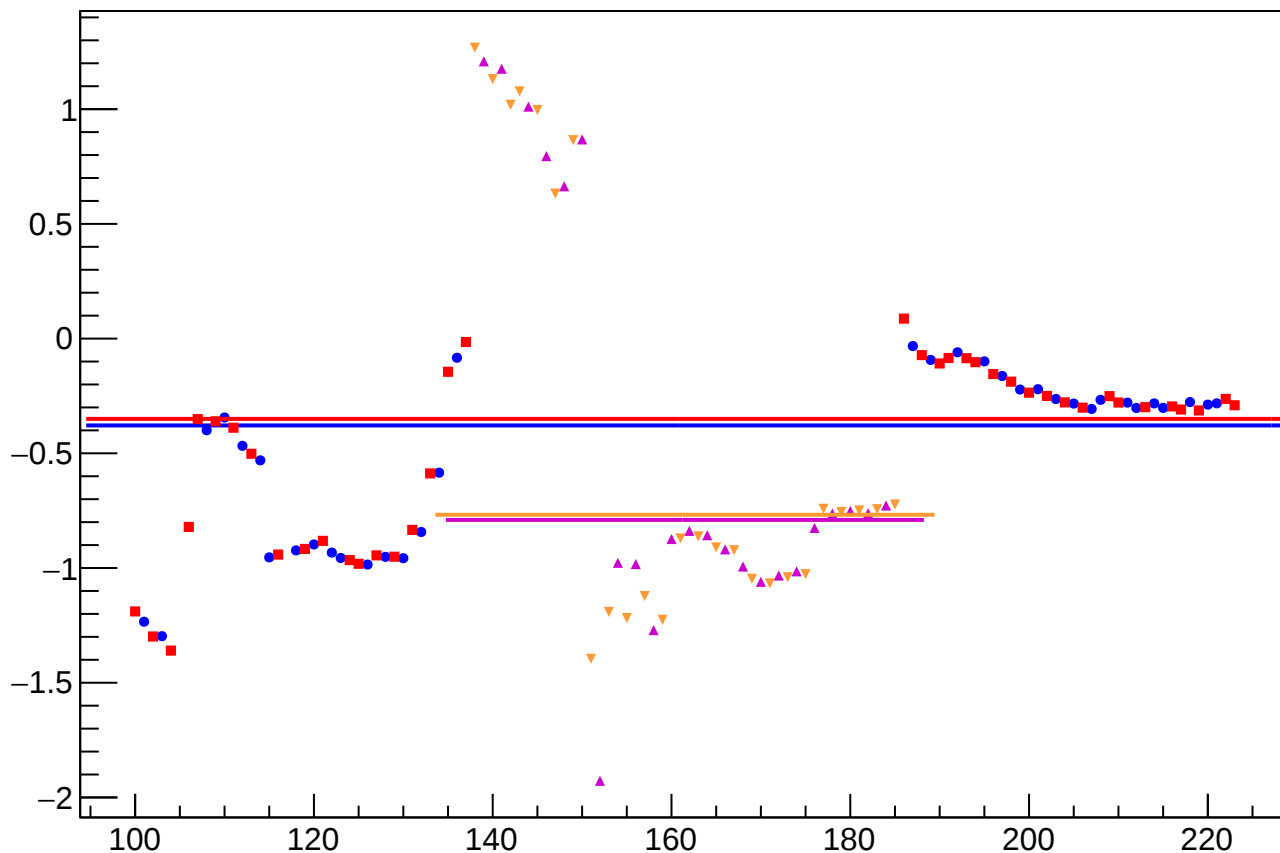
Right: 0.008+/-0.000 χ^2/NDF : 4200604.5/73

In: 0.009+/-0.000 χ^2/NDF :2496900.8/57

Out: 0.009+/-0.000 χ^2/NDF :2465035.3/63

All: 0.009+/-0.000 χ^2/NDF : 4964162.2/121

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.379+/-0.000 χ^2/NDF : 23337747646.9/34

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.350+/-0.000 χ^2/NDF : 25451198134.9/38

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

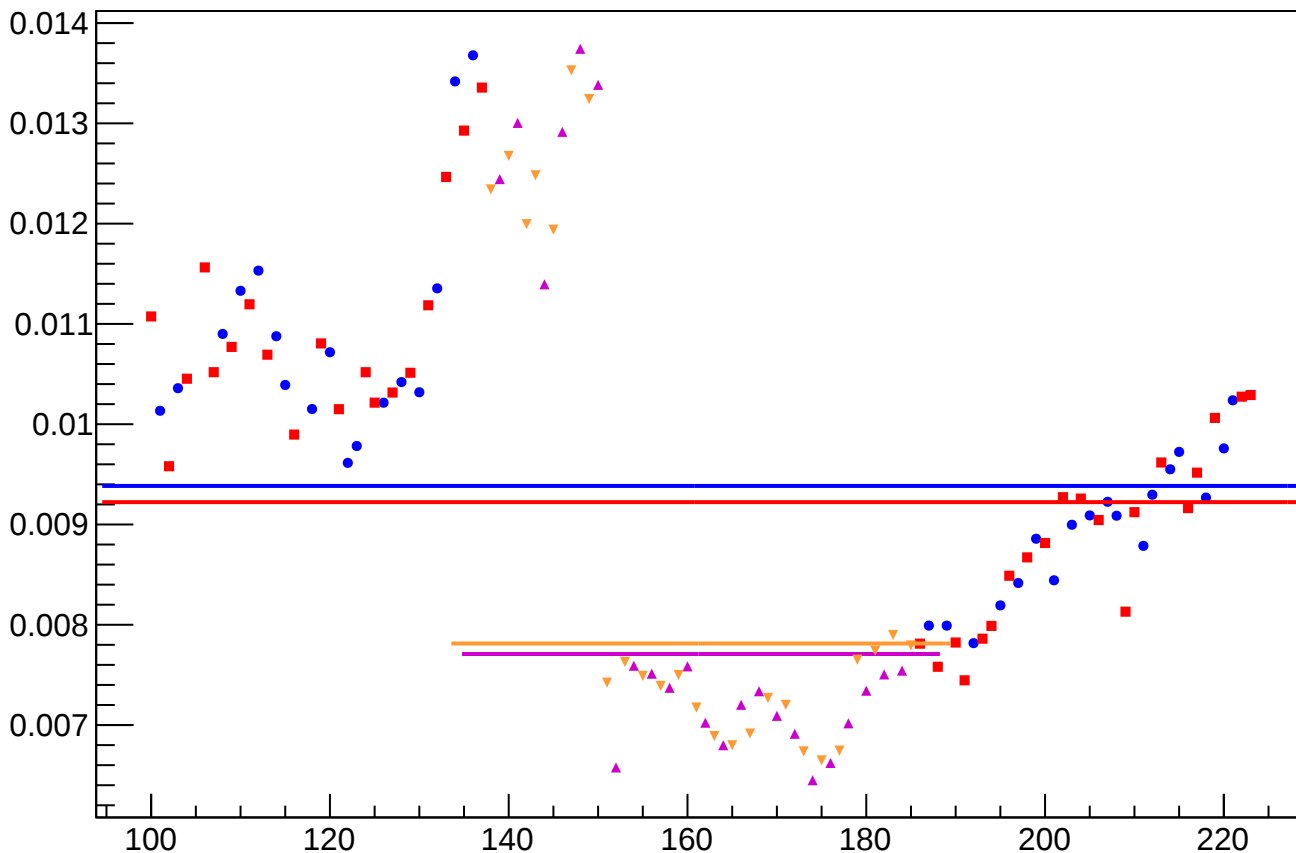
Right: -0.364+/-0.000 χ^2/NDF : 48881567649.5/73

In: -0.606+/-0.000 χ^2/NDF : 167405206195.6/57

Out: -0.578+/-0.000 χ^2/NDF : 168573765309.2/63

All: -0.592+/-0.000 χ^2/NDF : 336182393889.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 566997.0/34

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 694776.6/38

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

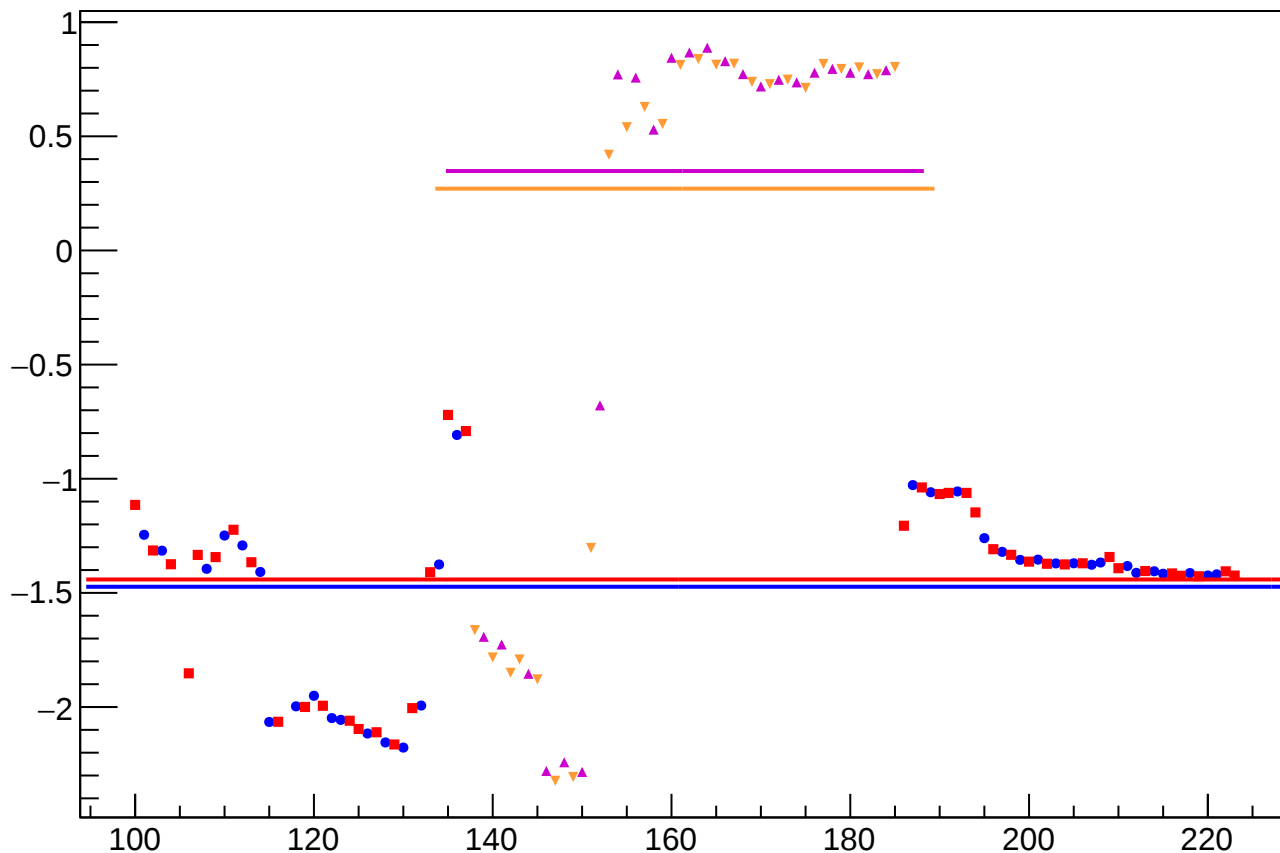
Right: 0.009+/-0.000 χ^2/NDF : 1267693.3/73

In: 0.008+/-0.000 χ^2/NDF :2996375.9/57

Out: 0.008+/-0.000 χ^2/NDF :2909448.9/63

All: 0.008+/-0.000 χ^2/NDF : 5905831.0/121

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.473+/-0.000 χ^2/NDF : 175473265304.2/34

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.441+/-0.000 χ^2/NDF : 164618601603.9/38

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

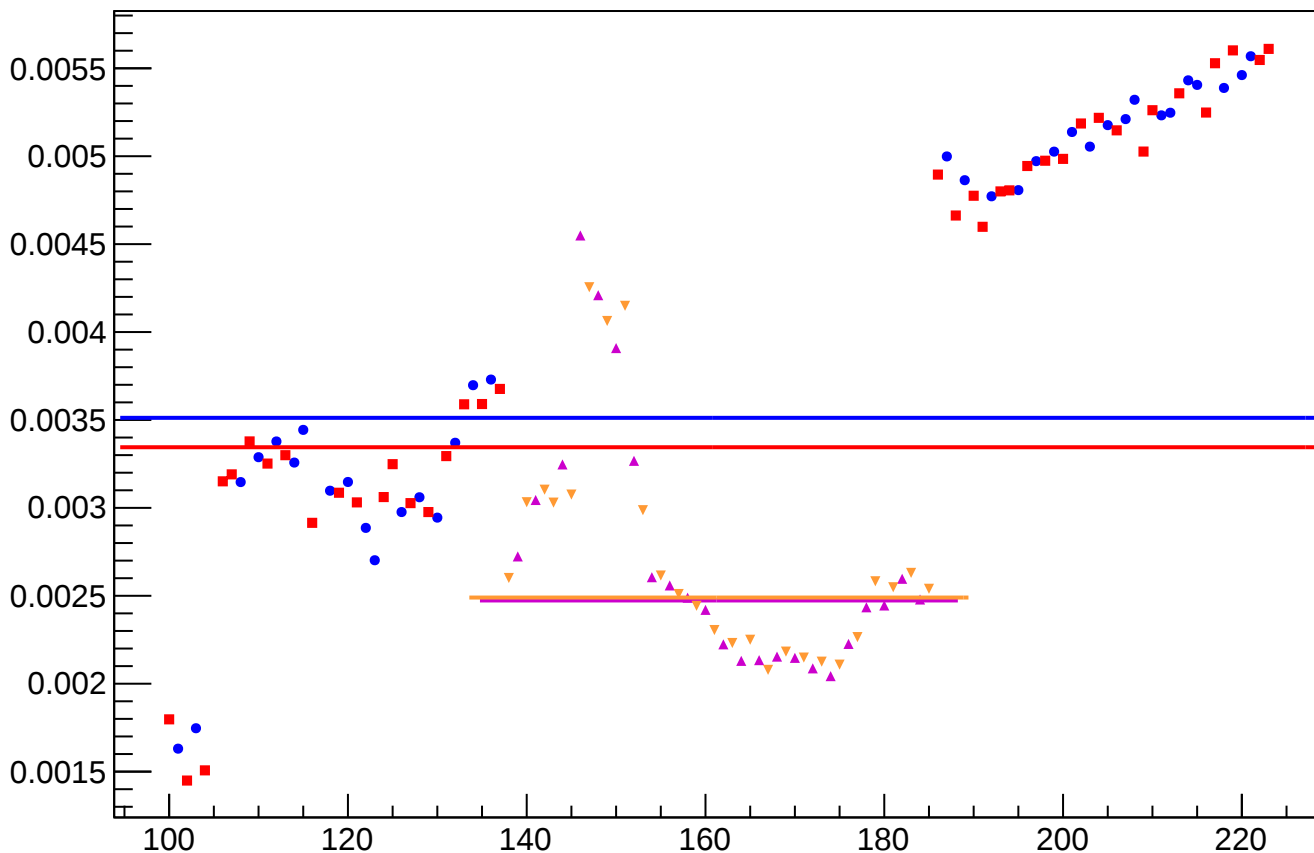
Right: -1.456+/-0.000 χ^2/NDF : 340802936162.3/73

In: -0.288+/-0.000 χ^2/NDF : 5325749178630.3/57

Out: -0.346+/-0.000 χ^2/NDF : 5515723648134.3/63

All: -0.318+/-0.000 χ^2/NDF : 1084802768926

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 5190802.9/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1070282.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 6329731.9/38

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1135279.8/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2206266.8/47

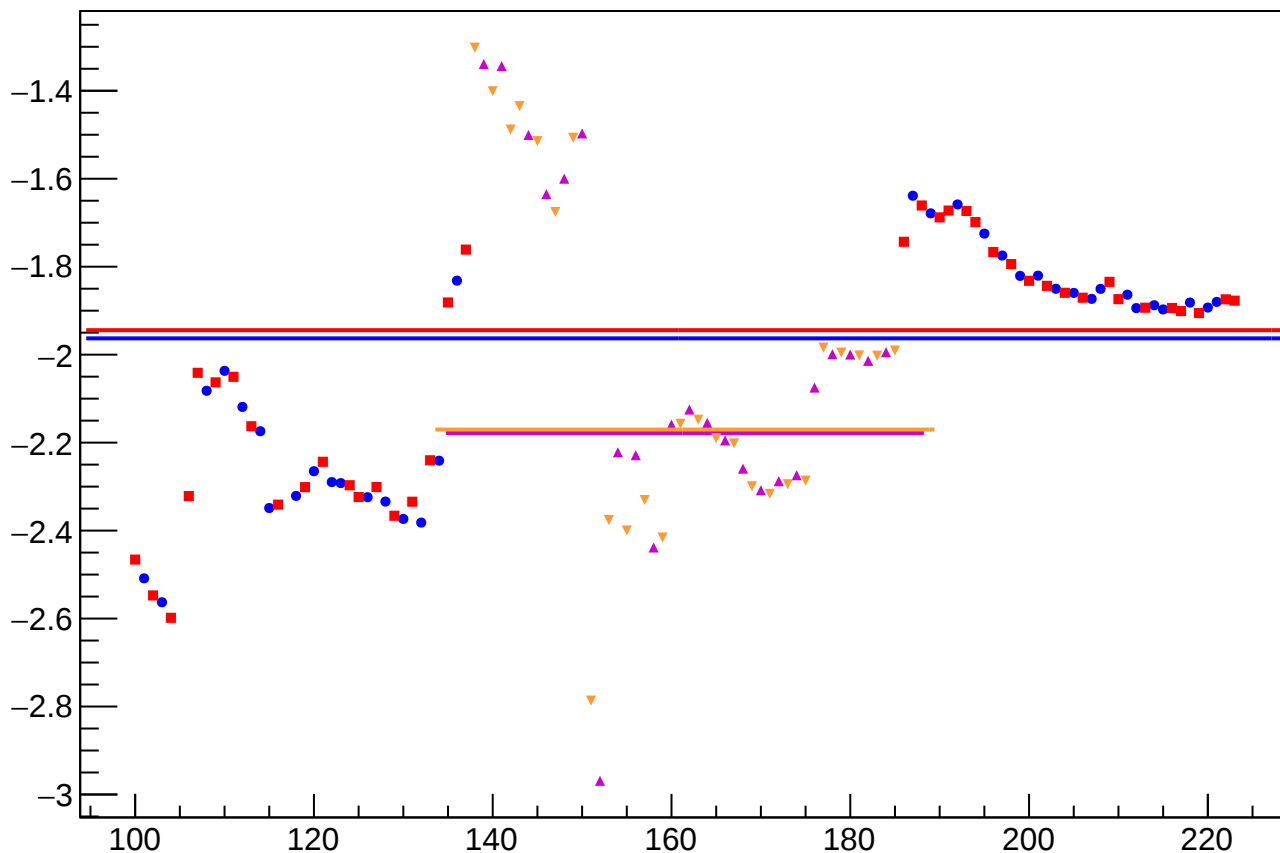
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 11559715.5/73

In: 0.003 $\pm$ 0.000 χ^2 /NDF:8197407.4/57

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:8780078.5/63

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 16983308.5/121

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.963+/-0.000 χ^2/NDF : 31944148745.0/34

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.944+/-0.000 χ^2/NDF : 35584805468.1/38

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

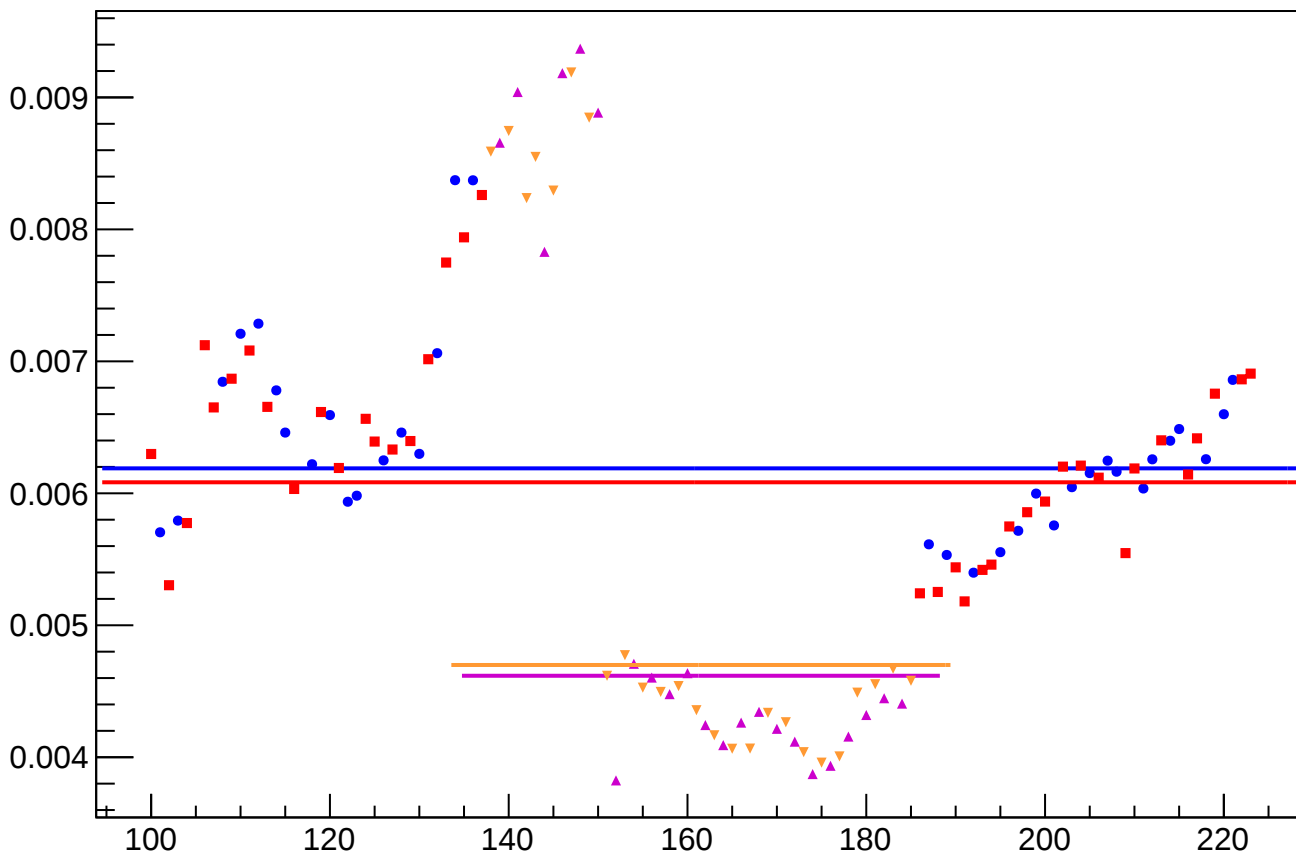
Right: -1.953+/-0.000 χ^2/NDF : 67619682044.6/73

In: -2.090+/-0.000 χ^2/NDF : 119169863902.1/57

Out: -2.076+/-0.000 χ^2/NDF : 111619883630.2/63

All: -2.083+/-0.000 χ^2/NDF : 230918111013.0

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2/NDF : 336558.2/34

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 426357.0/38

Left In: 0.005 $\pm$ 0.000 χ^2/NDF :2367440.9/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 4691984.4/47

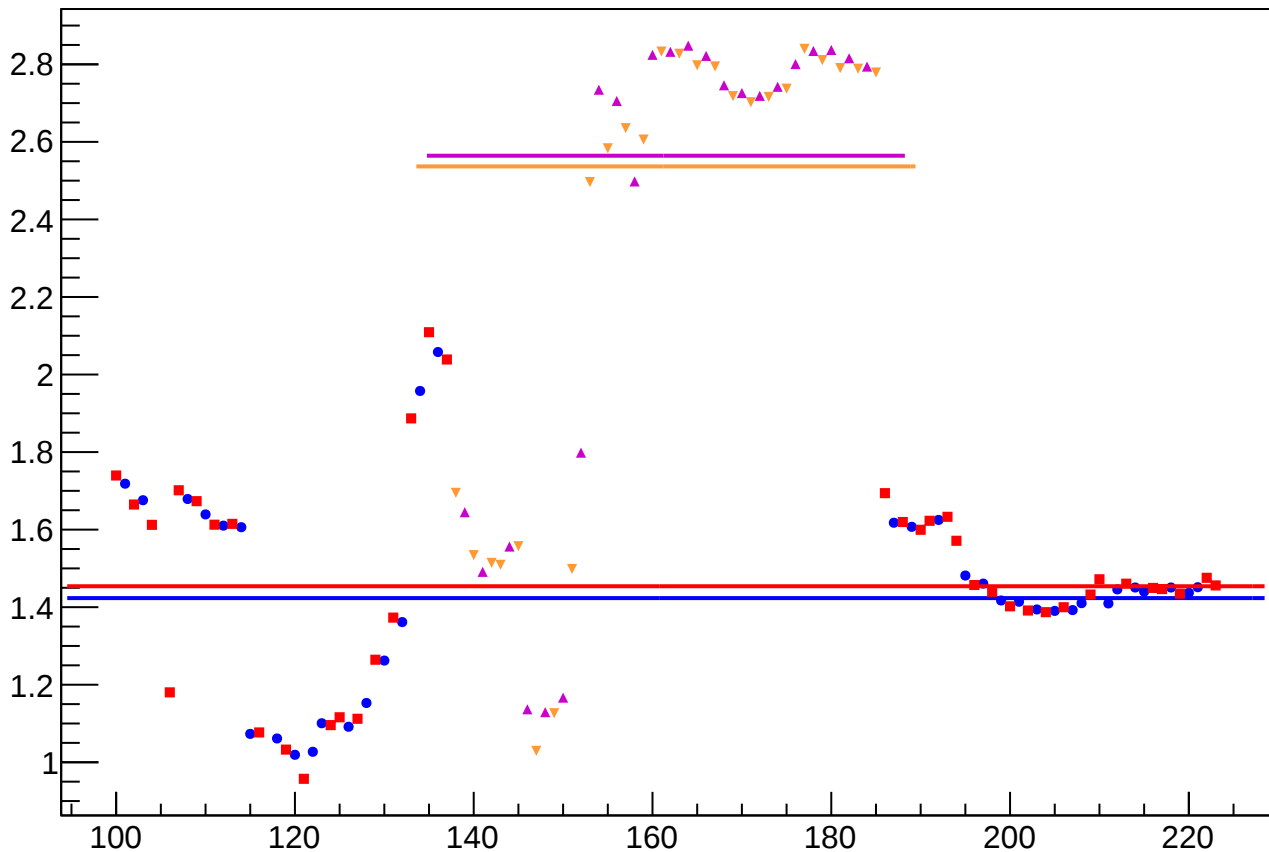
Right: 0.006 $\pm$ 0.000 χ^2/NDF : 768737.9/73

In: 0.005 $\pm$ 0.000 χ^2/NDF :4179896.4/57

Out: 0.005 $\pm$ 0.000 χ^2/NDF :3952286.6/63

All: 0.005 $\pm$ 0.000 χ^2/NDF : 8132572.2/121

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174236531511.7/34

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177018610316.8/38

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

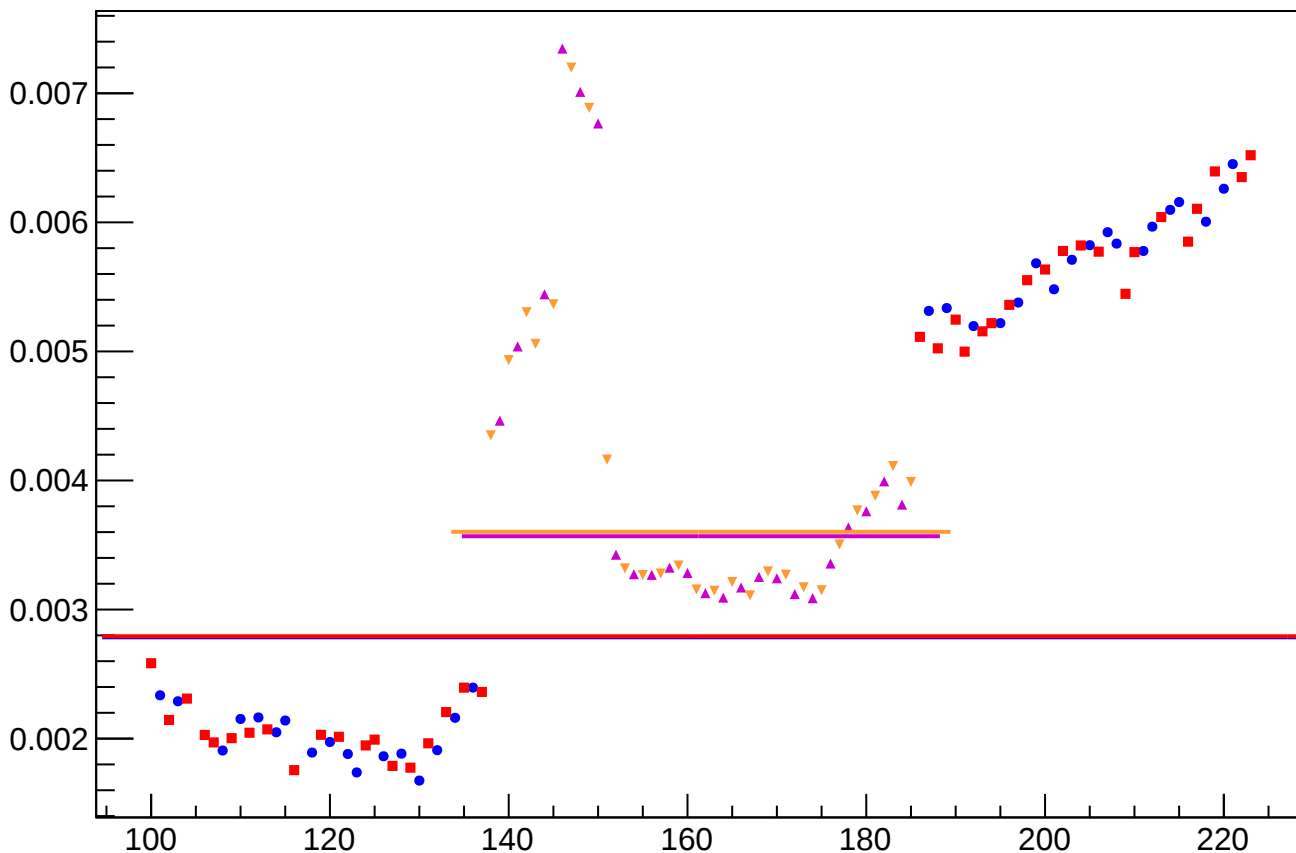
Right: 1.439+/-0.000 χ^2/NDF : 352167742630.1/73

In: 1.869+/-0.000 χ^2/NDF : 1407268296764.6/57

Out: 1.878+/-0.000 χ^2/NDF : 1364935917245.3/63

All: 1.874+/-0.000 χ^2/NDF : 2772347014356.0

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 8991770.7/34

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8875082.0/38

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

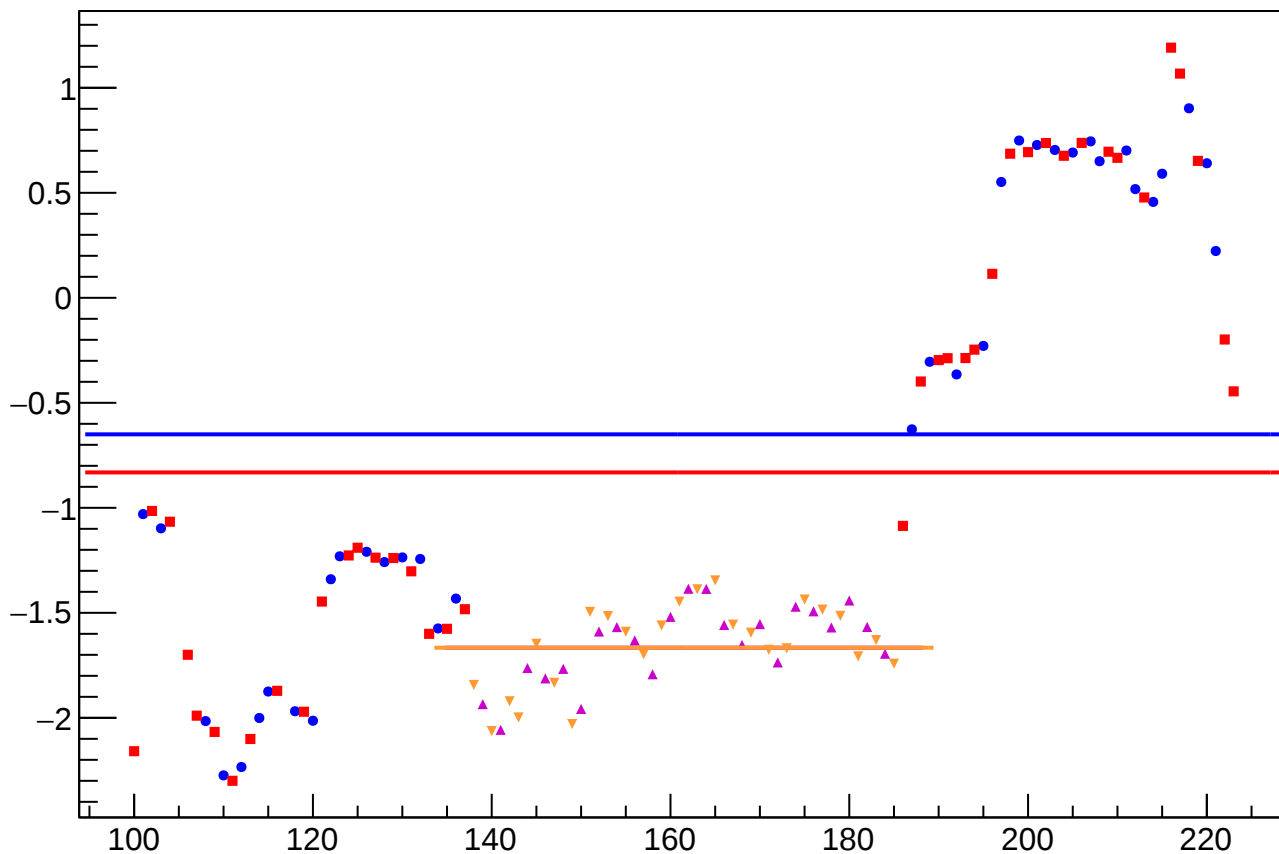
Right: 0.003+/-0.000 χ^2/NDF : 17866976.5/73

In: 0.003+/-0.000 χ^2/NDF :11470924.7/57

Out: 0.003+/-0.000 χ^2/NDF :11311762.7/63

All: 0.003+/-0.000 χ^2/NDF : 22783898.3/121

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.650+/-0.000

χ^2/NDF : 267715187851.4/34

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -0.746+/-0.000

χ^2/NDF : 575699342161.1/73

Right Out: -0.831+/-0.000

χ^2/NDF : 303722202290.4/38

In: -1.286+/-0.000

χ^2/NDF : 440479621280.6/57

Out: -1.346+/-0.000

χ^2/NDF : 439837464436.9/63

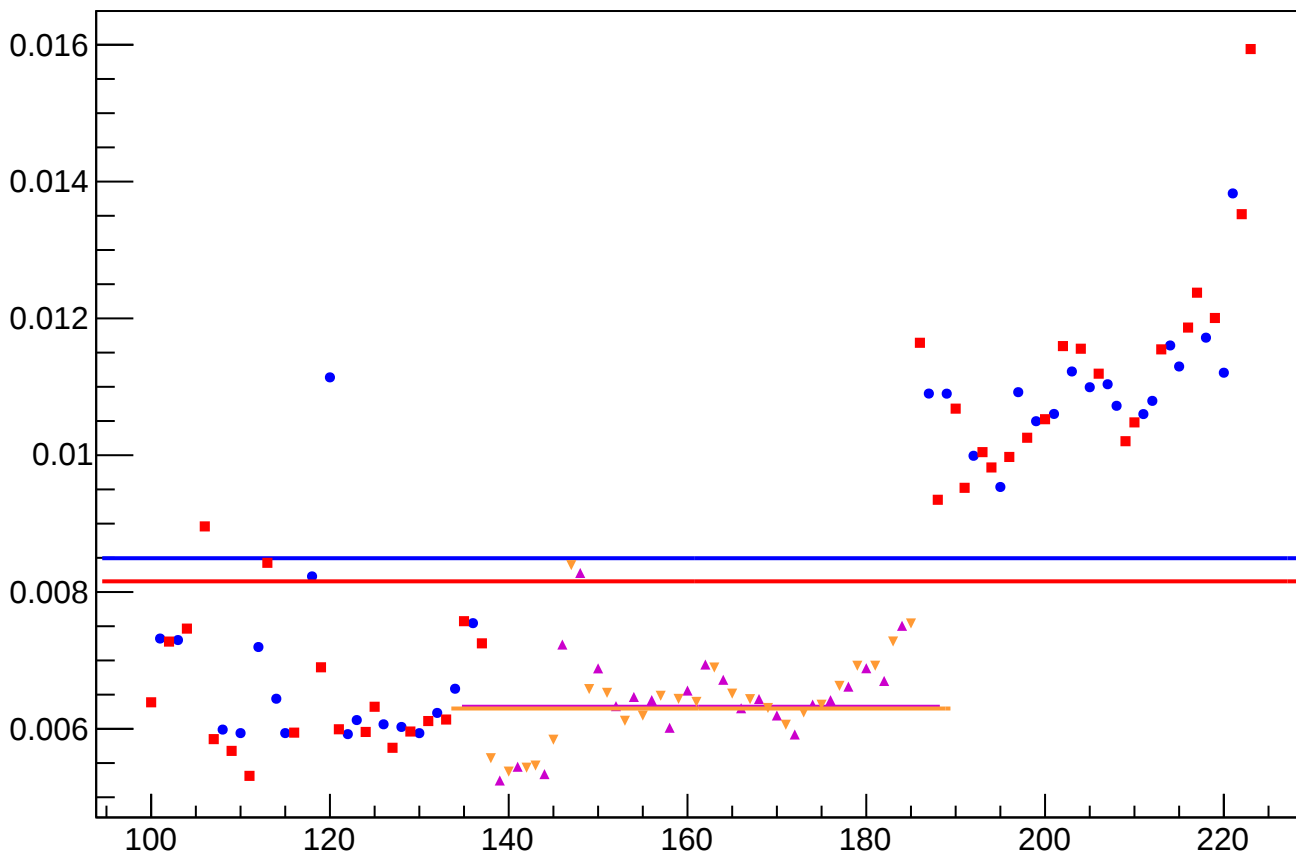
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.317+/-0.000

χ^2/NDF : 881559783307.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2592101.4/34

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3171331.1/38

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

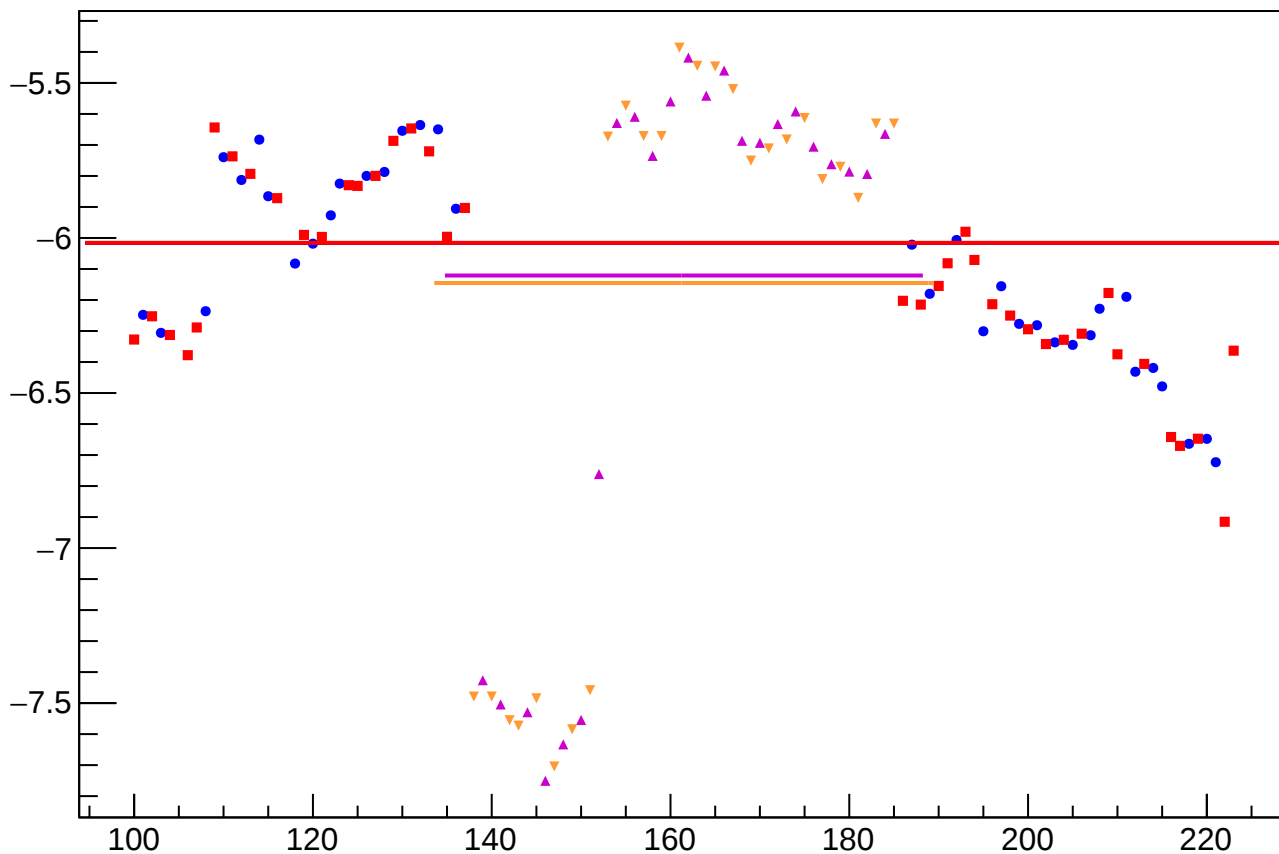
Right: 0.008+/-0.000 χ^2/NDF : 5793038.4/73

In: 0.007+/-0.000 χ^2/NDF :4370257.0/57

Out: 0.007+/-0.000 χ^2/NDF :4650821.0/63

All: 0.007+/-0.000 χ^2/NDF : 9031897.4/121

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.016+/-0.000 χ^2/NDF : 22605949488.3/34

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -6.016+/-0.000 χ^2/NDF : 24918368221.3/38

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

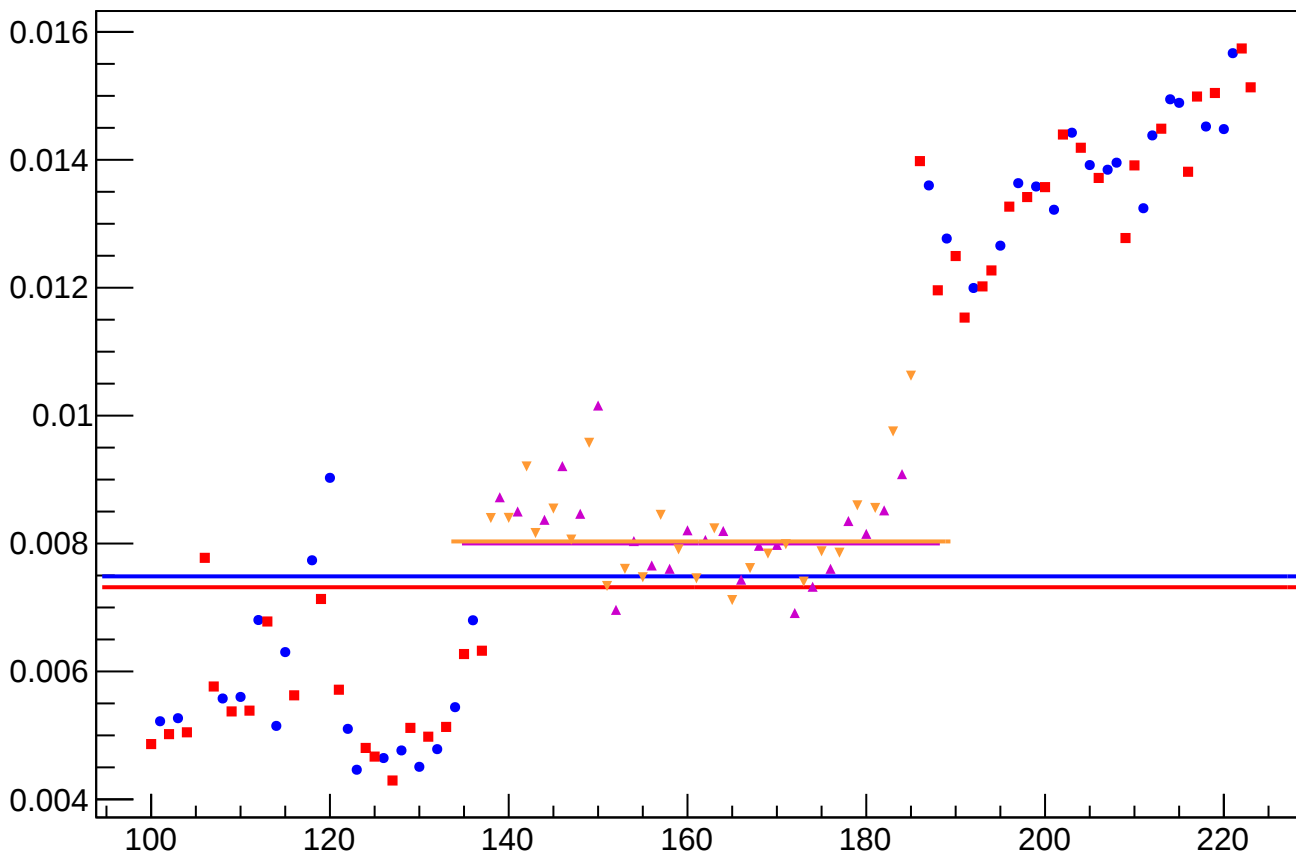
Right: -6.016+/-0.000 χ^2/NDF : 47524332789.5/73

In: -6.066+/-0.000 χ^2/NDF : 182338773236.9/57

Out: -6.076+/-0.000 χ^2/NDF : 212578341852.3/63

All: -6.071+/-0.000 χ^2/NDF : 394942757971.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7547720.0/34

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7604509.8/38

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

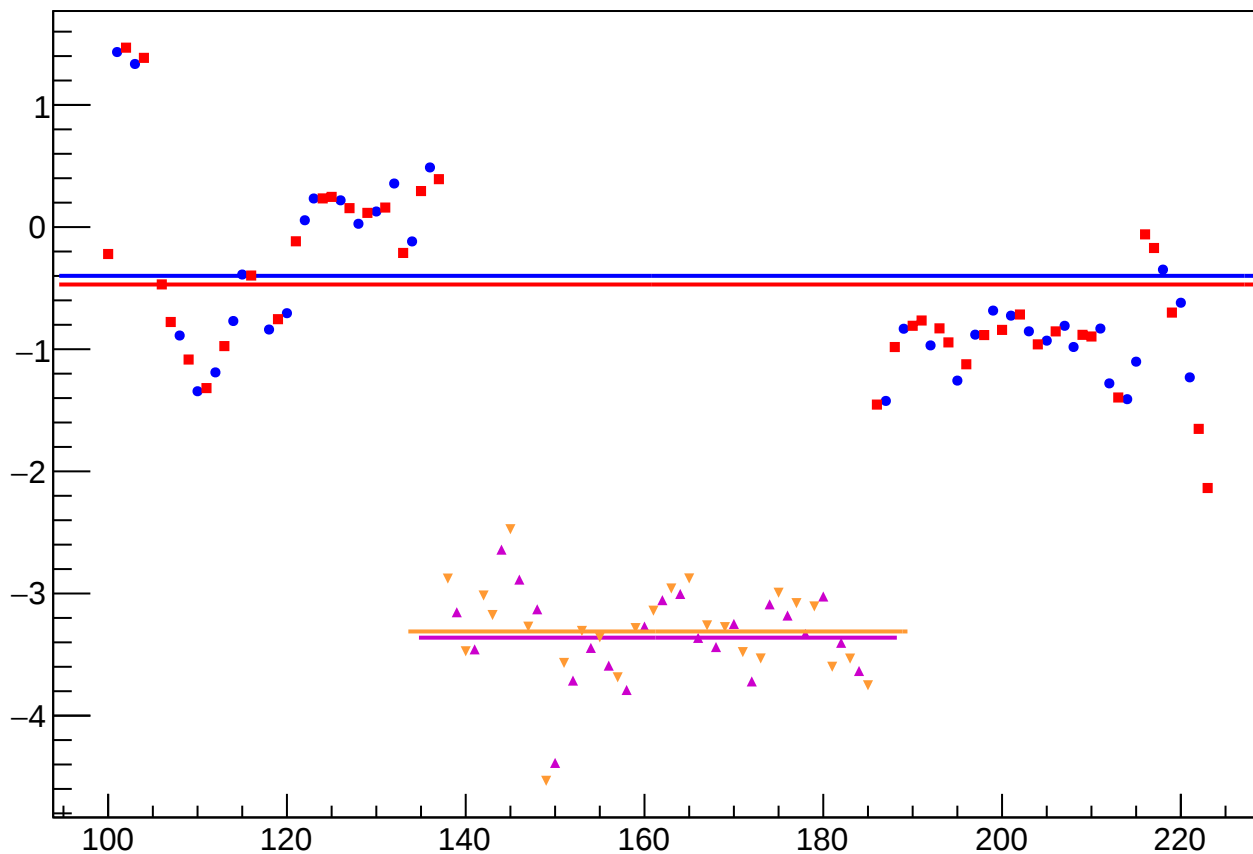
Right: 0.007+/-0.000 χ^2/NDF : 15160346.8/73

In: 0.008+/-0.000 χ^2/NDF :7836686.1/57

Out: 0.008+/-0.000 χ^2/NDF :7950927.4/63

All: 0.008+/-0.000 χ^2/NDF : 15791221.1/121

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.399 ± 0.000 $\chi^2/\text{NDF}: 37702010241.8/34$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.470 ± 0.000 $\chi^2/\text{NDF}: 38981483001.0/38$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

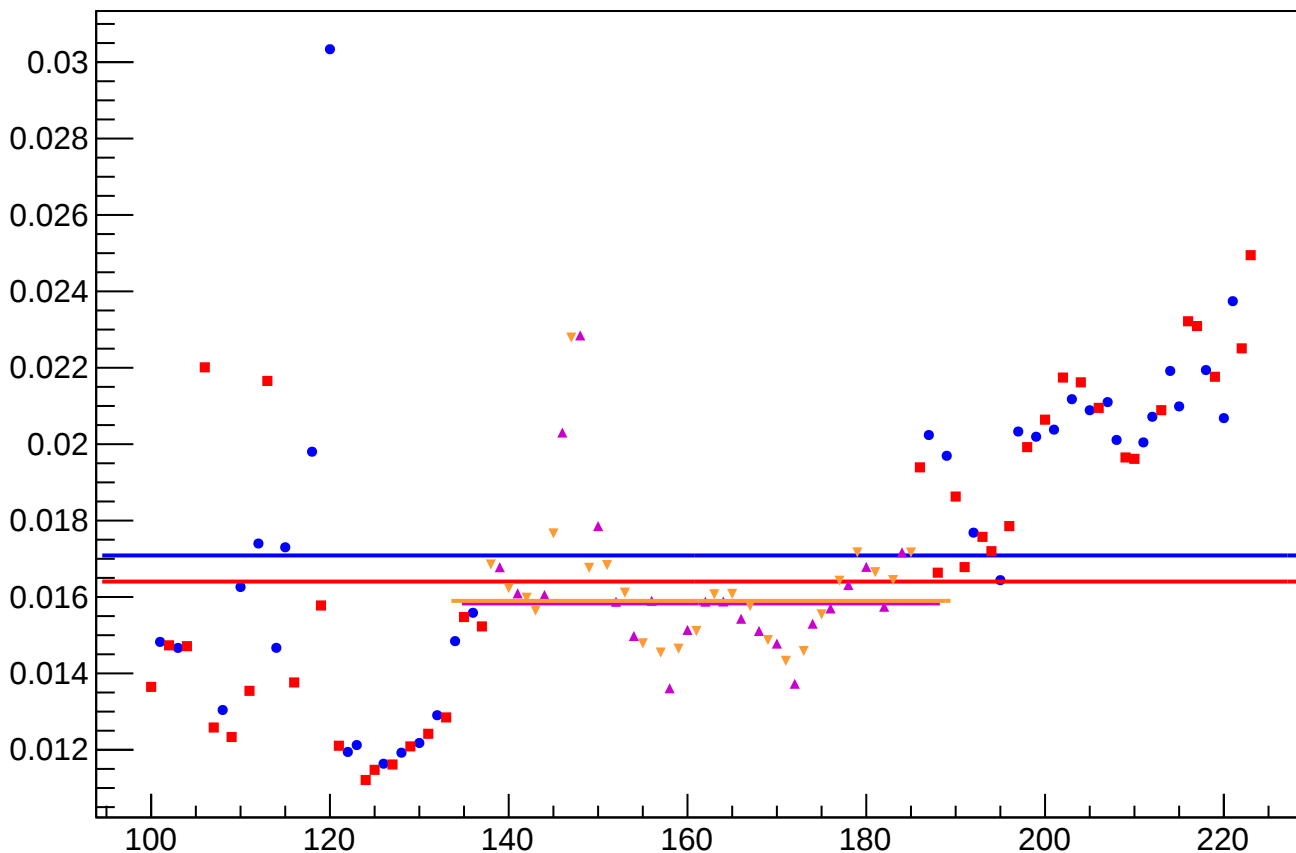
Right: -0.437 ± 0.000 $\chi^2/\text{NDF}: 76848987430.0/73$

In: -1.929 ± 0.000 $\chi^2/\text{NDF}: 327049086567.3/57$

Out: -1.889 ± 0.000 $\chi^2/\text{NDF}: 330775617687.1/63$

All: -1.908 ± 0.000 $\chi^2/\text{NDF}: 657931839052.1$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1826294.8/34

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 2058198.4/38

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

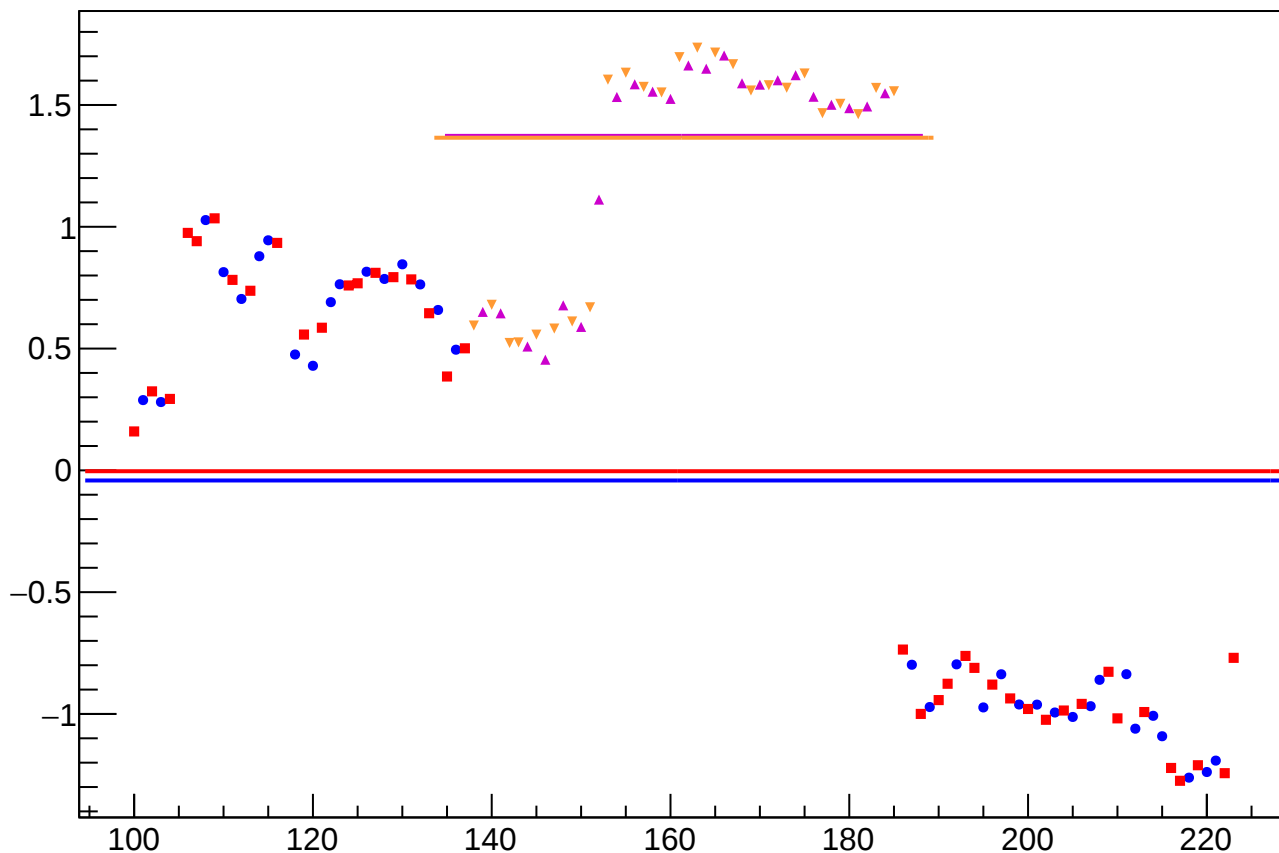
Right: 0.017+/-0.000 χ^2/NDF : 3915238.8/73

In: 0.016+/-0.000 χ^2/NDF :2267018.7/57

Out: 0.016+/-0.000 χ^2/NDF :2327987.2/63

All: 0.016+/-0.000 χ^2/NDF : 4606033.4/121

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.042 $\pm$ 0.000

χ^2 /NDF: 106809480460.7/34

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

Right: -0.021 $\pm$ 0.000 χ^2 /NDF: 223625342735.9/73

Left Out: 1.366 $\pm$ 0.000

χ^2 /NDF: 74741956067.9/24

In: 0.985 $\pm$ 0.000 χ^2 /NDF: 404838075001.6/57

Right Out: -0.004 $\pm$ 0.000

χ^2 /NDF: 116692796209.3/38

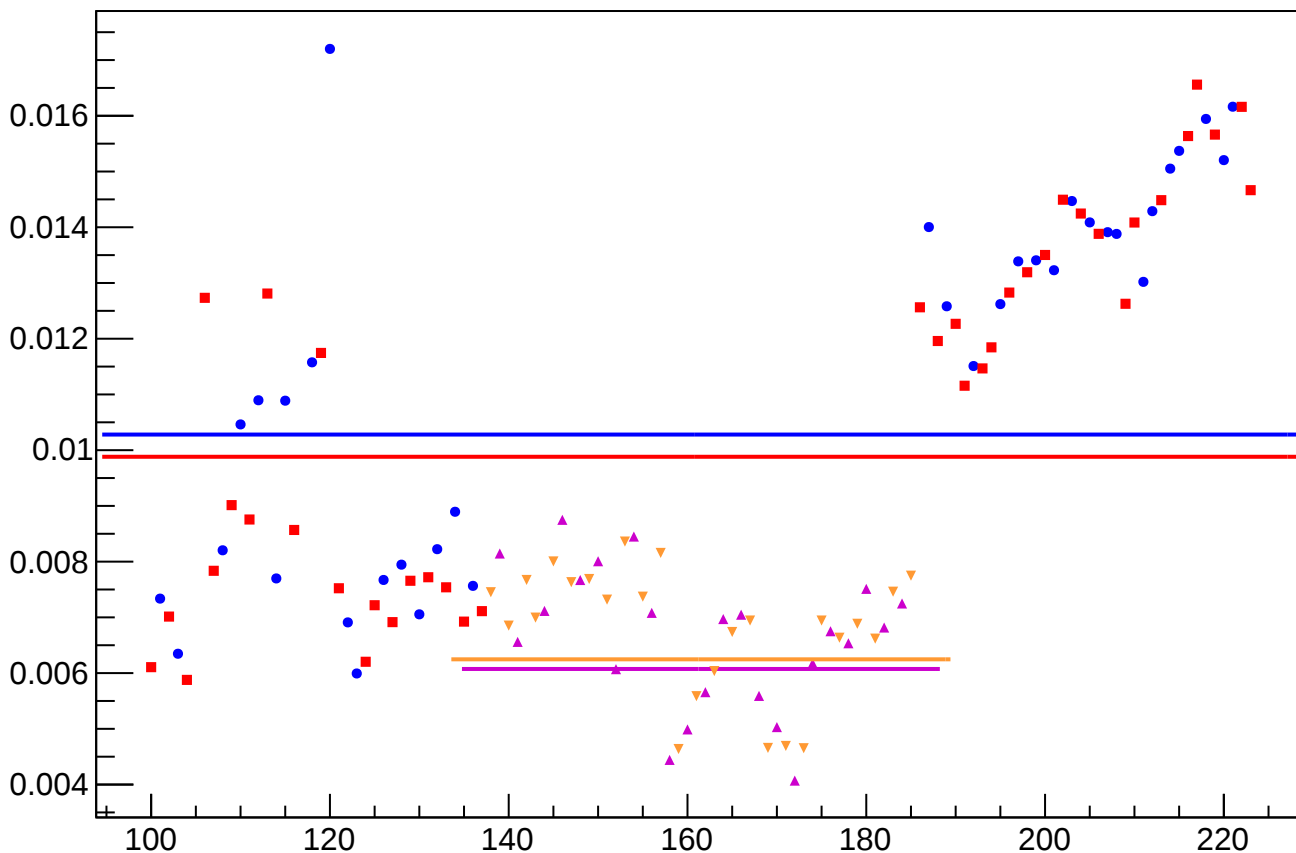
Out: 0.959 $\pm$ 0.000 χ^2 /NDF: 428689907827.3/63

Left In: 1.373 $\pm$ 0.000

χ^2 /NDF: 63413151416.3/22

All: 0.972 $\pm$ 0.000 χ^2 /NDF: 833736002713.2

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 3491013.6/34

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.010+/-0.000 χ^2/NDF : 3756577.8/38

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

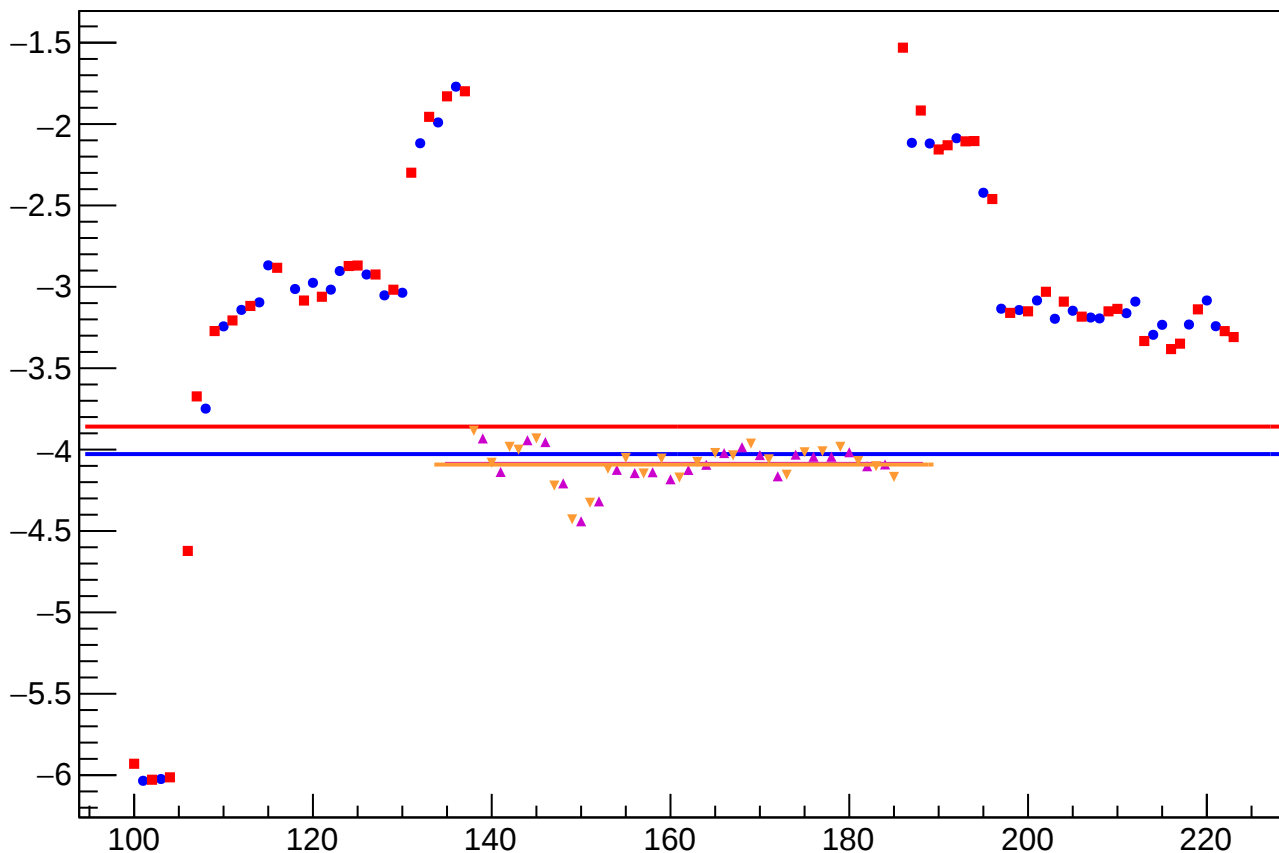
Right: 0.010+/-0.000 χ^2/NDF : 7274643.6/73

In: 0.007+/-0.000 χ^2/NDF :9070767.2/57

Out: 0.007+/-0.000 χ^2/NDF :8431735.6/63

All: 0.007+/-0.000 χ^2/NDF : 17508387.4/121

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.028+/-0.000

χ²/NDF: 296962765297.6/34

Left: -4.089+/-0.000

χ²/NDF: 74248792.8/47

Left Out: -4.092+/-0.000

χ²/NDF: 39806766.7/24

Right: -3.951+/-0.000

χ²/NDF: 582951452361.7/73

Right Out: -3.859+/-0.000

χ²/NDF: 284274938080.0/38

In: -4.029+/-0.000

χ²/NDF: 297012150466.5/57

Out: -3.865+/-0.000

χ²/NDF: 284471062048.0/63

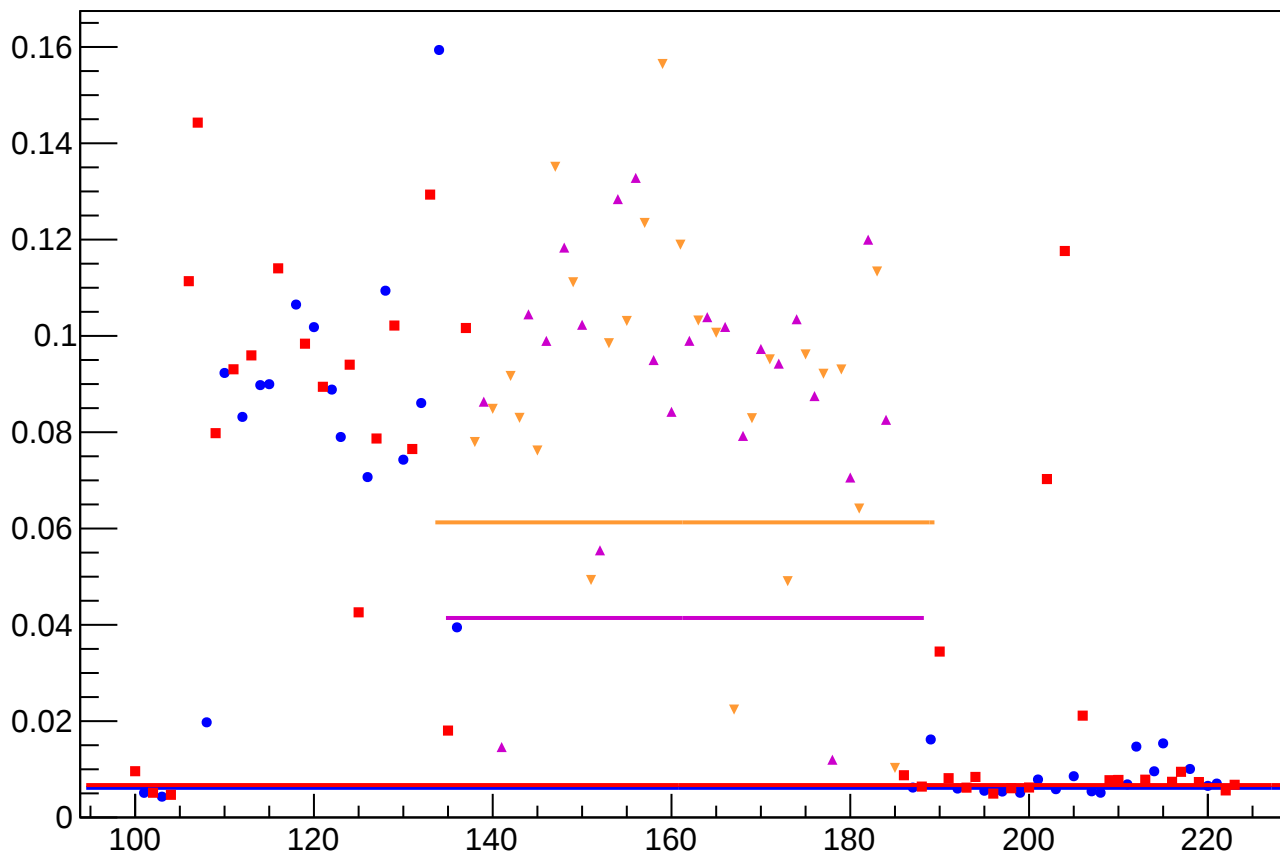
Left In: -4.088+/-0.000

χ²/NDF: 34412880.7/22

All: -3.955+/-0.000

χ²/NDF: 583159080313.7

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 8439254.5/34

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 10432071.1/38

Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

Left: 0.050 $\pm$ 0.000 χ^2 /NDF: 22855159.2/47

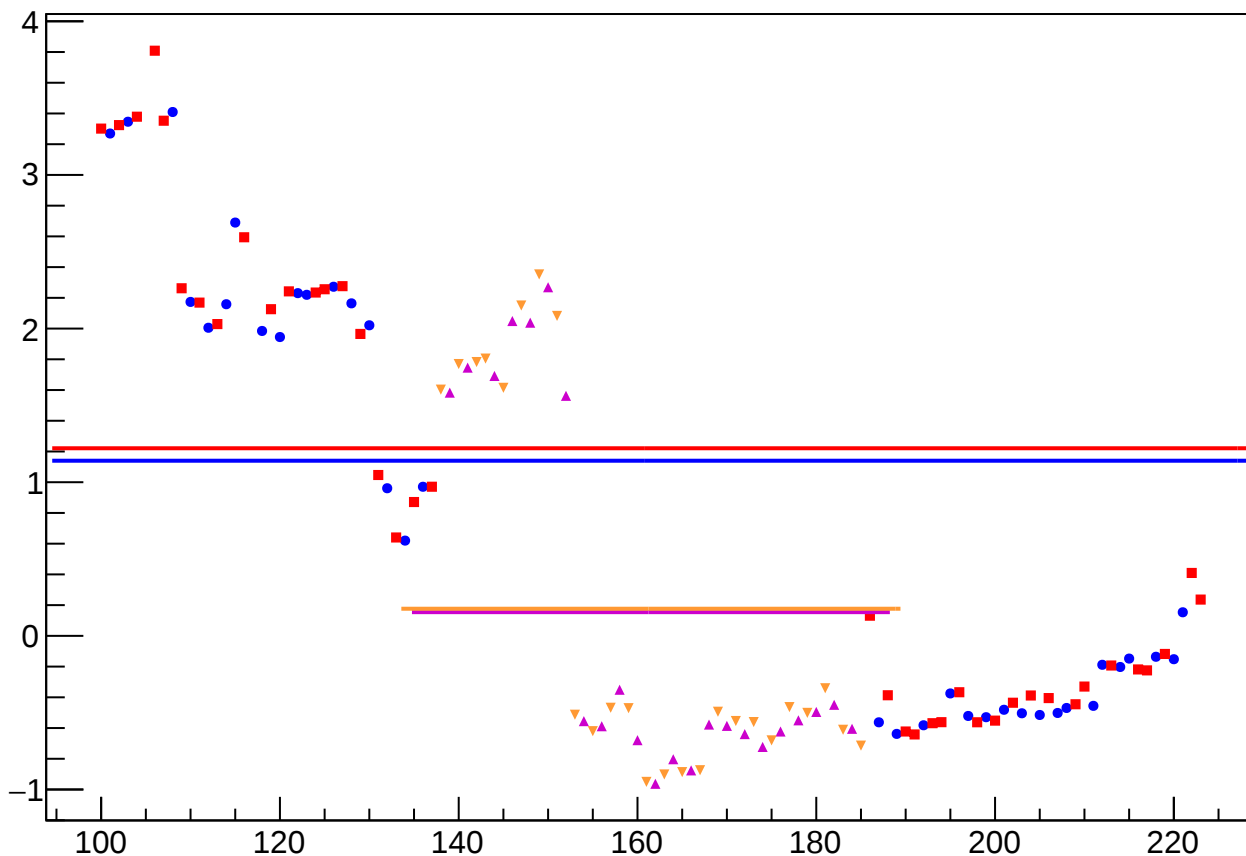
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18910601.4/73

In: 0.007 $\pm$ 0.000 χ^2 /NDF:31845859.3/57

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:35899904.9/63

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 67848935.2/121

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.140+/-0.000 χ^2/NDF : 228510838599.4/34

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.221+/-0.000 χ^2/NDF : 203423258868.4/38

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

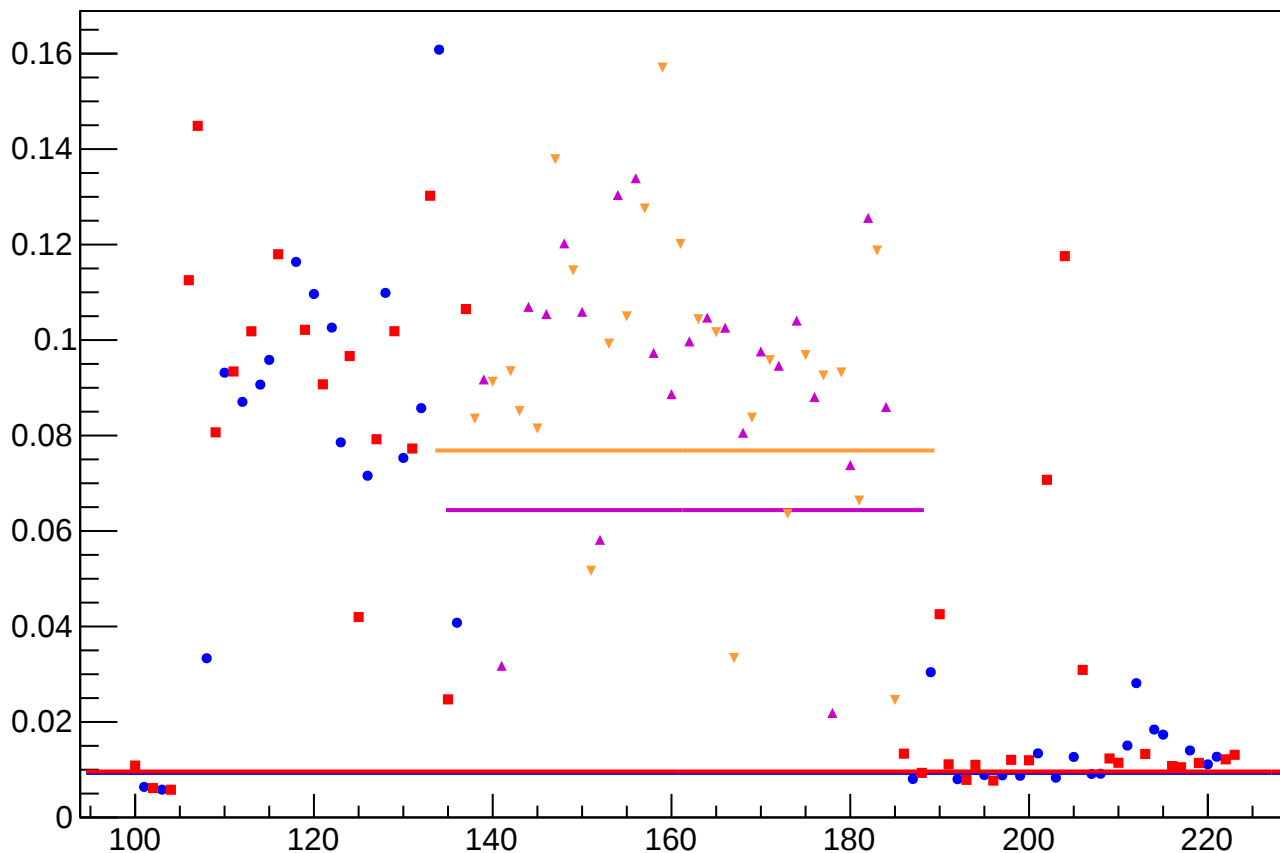
Right: 1.179+/-0.000 χ^2/NDF : 432147247090.1/73

In: 1.104+/-0.000 χ^2/NDF : 234088433727.5/57

Out: 1.184+/-0.000 χ^2/NDF : 209084300164.3/63

All: 1.142+/-0.000 χ^2/NDF : 443389488719.2

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8712375.3/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 10466014.3/38

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

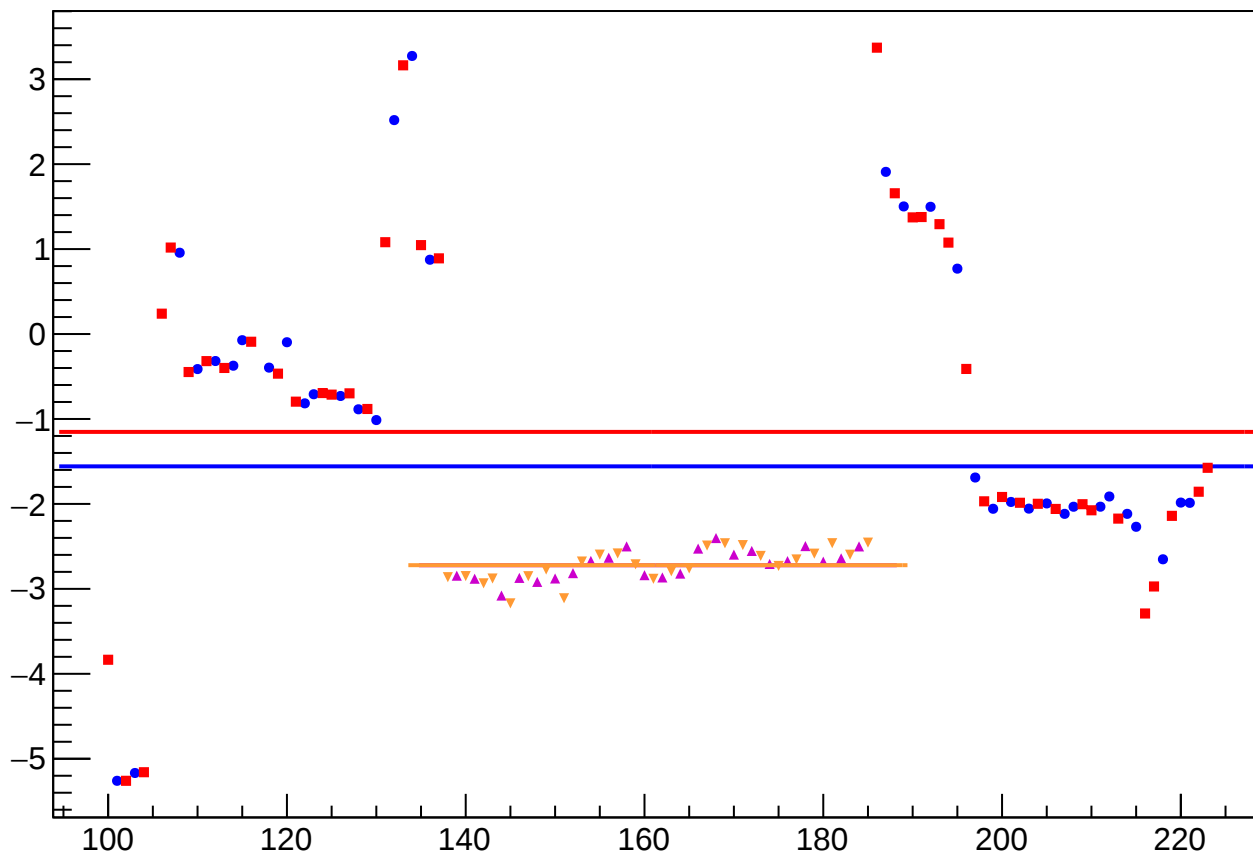
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 19184464.4/73

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30768268.2/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34456731.1/63

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65254669.9/121

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.558+/-0.000 χ^2/NDF : 210470587443.8/34

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.152+/-0.000 χ^2/NDF : 252212409873.9/38

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

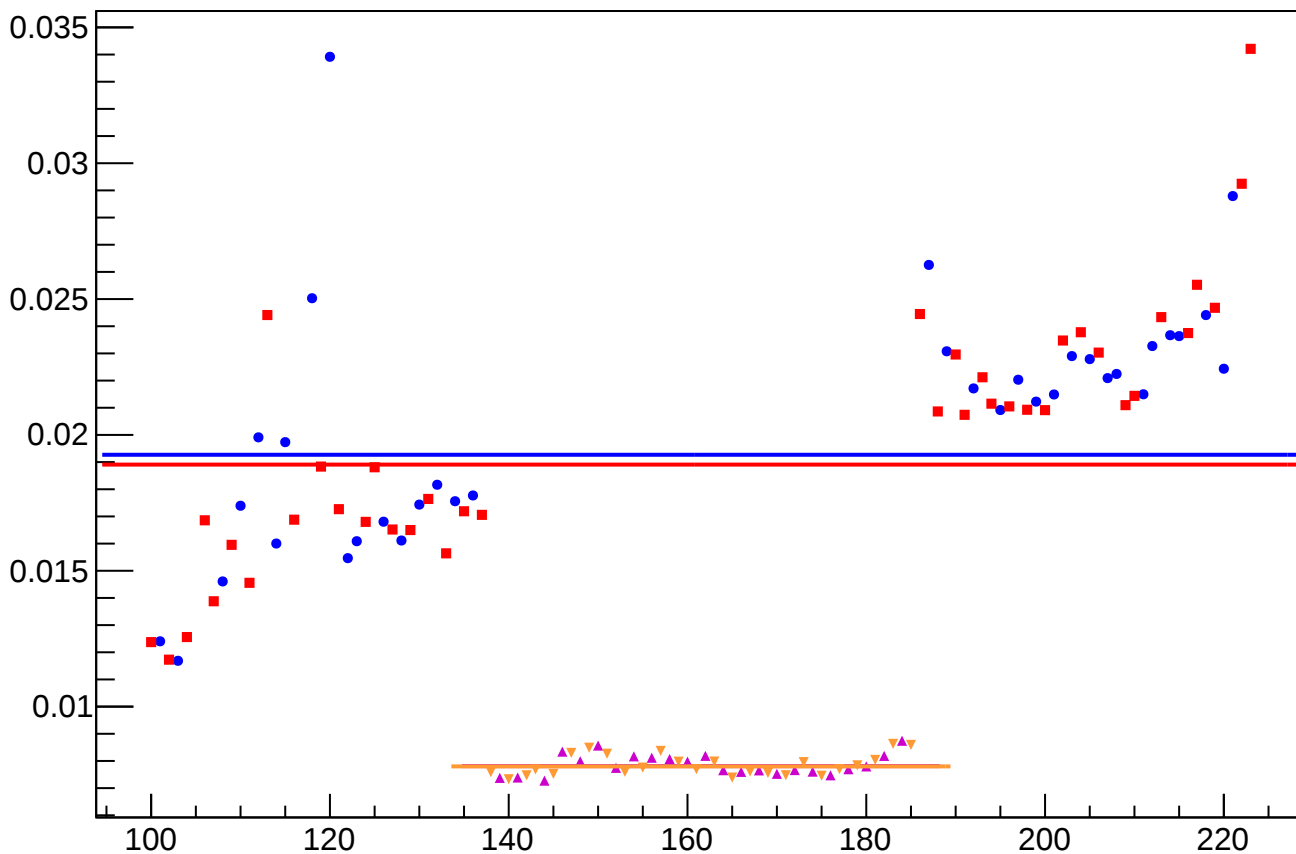
Right: -1.347+/-0.000 χ^2/NDF : 466755166494.3/73

In: -2.549+/-0.000 χ^2/NDF : 273633315332.4/57

Out: -2.486+/-0.000 χ^2/NDF : 370230133849.6/63

All: -2.516+/-0.000 χ^2/NDF : 644537723910.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1877616.5/34

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.019+/-0.000 χ^2/NDF : 1998787.2/38

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

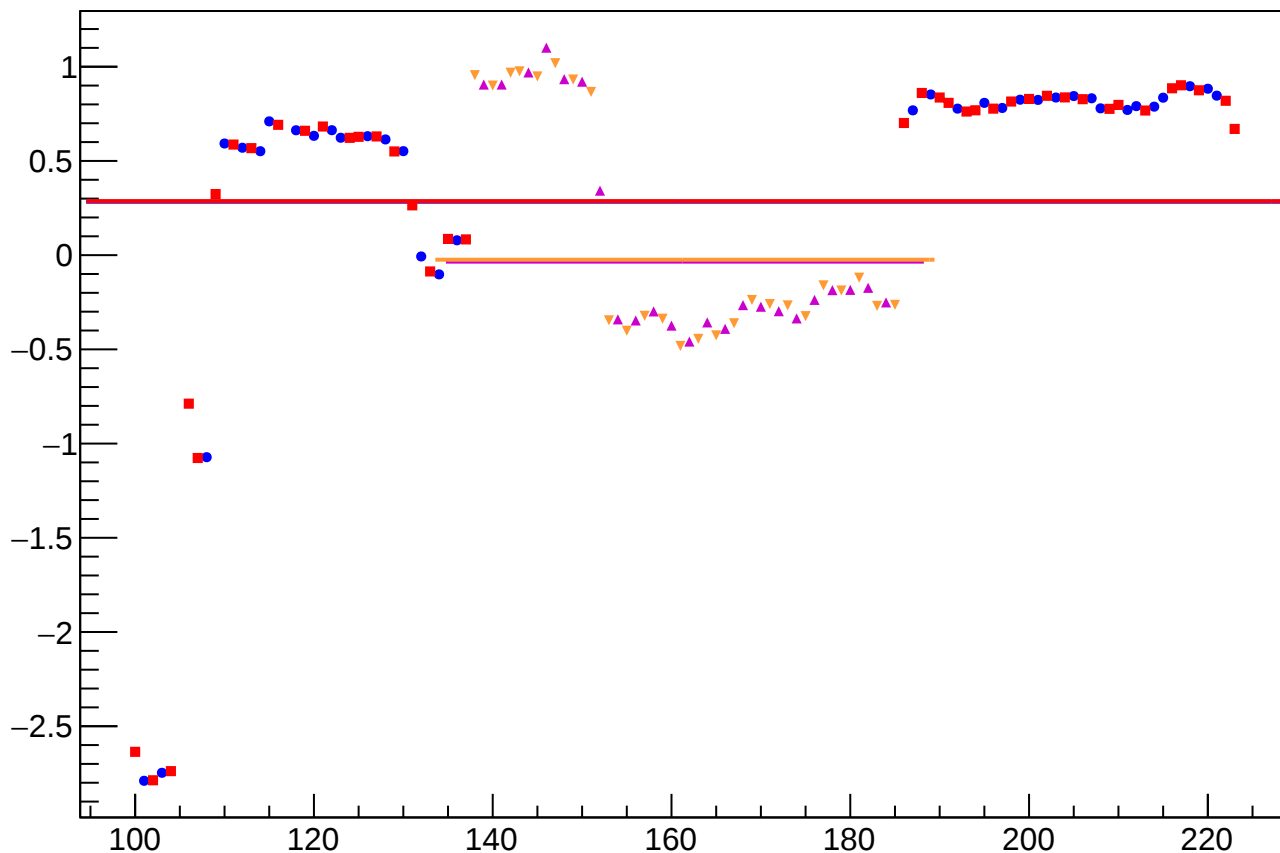
Right: 0.019+/-0.000 χ^2/NDF : 3882875.8/73

In: 0.010+/-0.000 χ^2/NDF : 12607005.4/57

Out: 0.009+/-0.000 χ^2/NDF : 12856075.6/63

All: 0.009+/-0.000 χ^2/NDF : 25463642.1/121

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.284+/-0.000

χ^2/NDF : 922717168996.5/34

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.285+/-0.000

χ^2/NDF : 1900924295265.4/73

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.177+/-0.000

χ^2/NDF : 1067902418057.3/57

Right Out: 0.287+/-0.000

χ^2/NDF : 978203188562.9/38

Out: 0.185+/-0.000

χ^2/NDF : 1145111882635.5/63

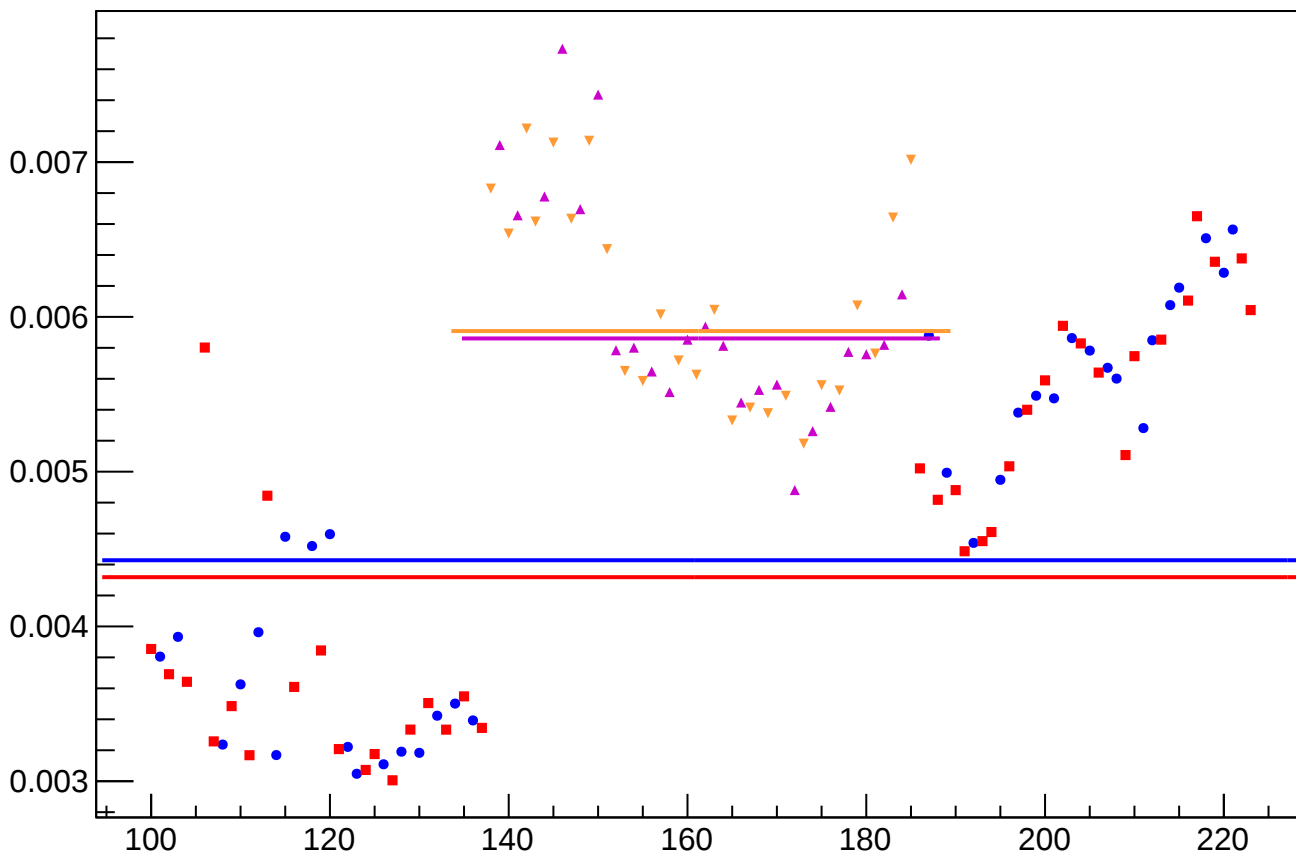
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.181+/-0.000

χ^2/NDF : 2213069402596.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2371331.3/34

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2409672.0/38

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

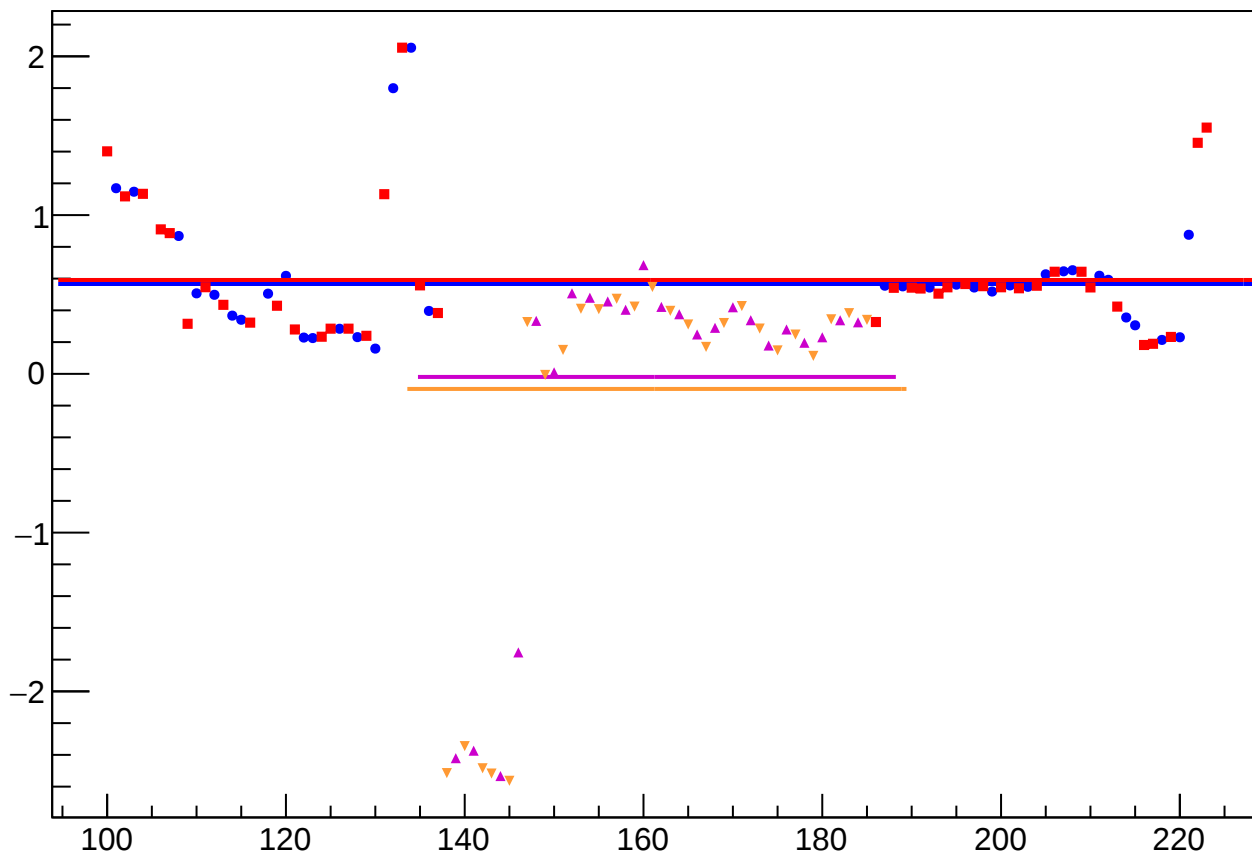
Right: 0.004+/-0.000 χ^2/NDF : 4792443.9/73

In: 0.005+/-0.000 χ^2/NDF :4004648.3/57

Out: 0.005+/-0.000 χ^2/NDF :4371026.7/63

All: 0.005+/-0.000 χ^2/NDF : 8383527.7/121

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.566+/-0.000 χ^2/NDF : 68392240777.4/34

Left Out: -0.095+/-0.000 χ^2/NDF : 505606573631.9/24

Right Out: 0.591+/-0.000 χ^2/NDF : 134094925644.8/38

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

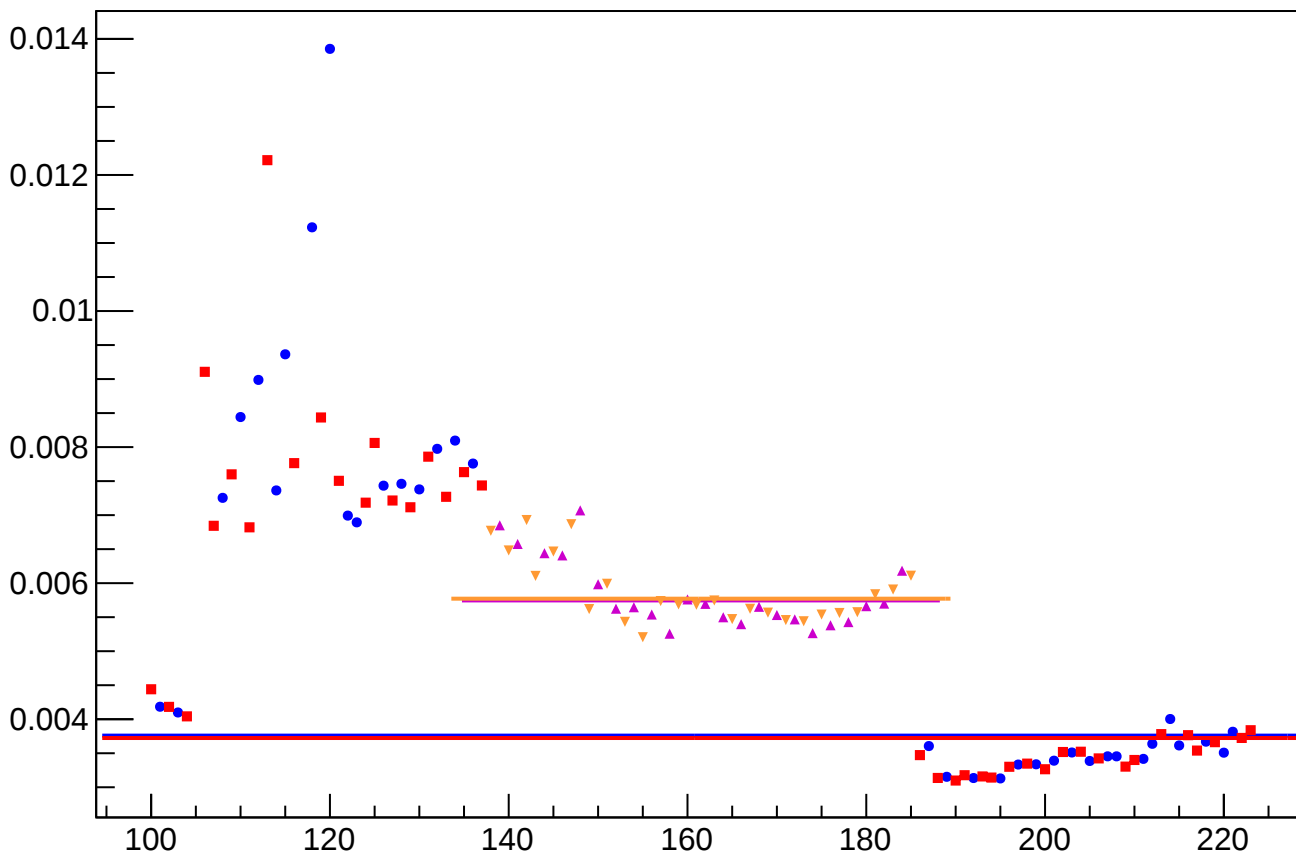
Right: 0.579+/-0.000 χ^2/NDF : 202885873304.0/73

In: 0.396+/-0.000 χ^2/NDF : 605555973202.5/57

Out: 0.395+/-0.000 χ^2/NDF : 813118331869.5/63

All: 0.396+/-0.000 χ^2/NDF : 1418674996114.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3162340.4/34

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3199172.3/38

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

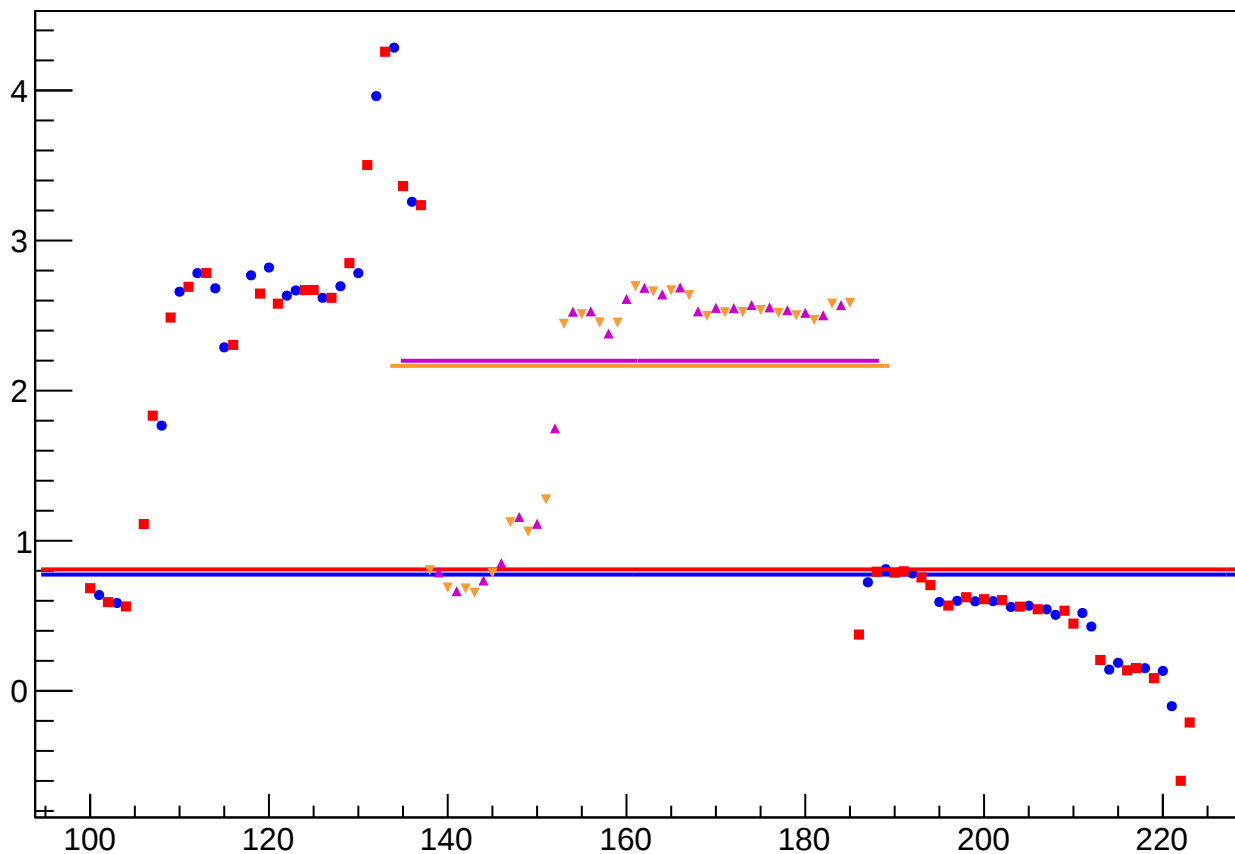
Right: 0.004+/-0.000 χ^2/NDF : 6363059.5/73

In: 0.004+/-0.000 χ^2/NDF :6134005.1/57

Out: 0.004+/-0.000 χ^2/NDF :6465811.5/63

All: 0.004+/-0.000 χ^2/NDF : 12601077.5/121

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.775+/-0.000 χ^2/NDF : 360419544603.6/34

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.809+/-0.000 χ^2/NDF : 425958170773.5/38

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

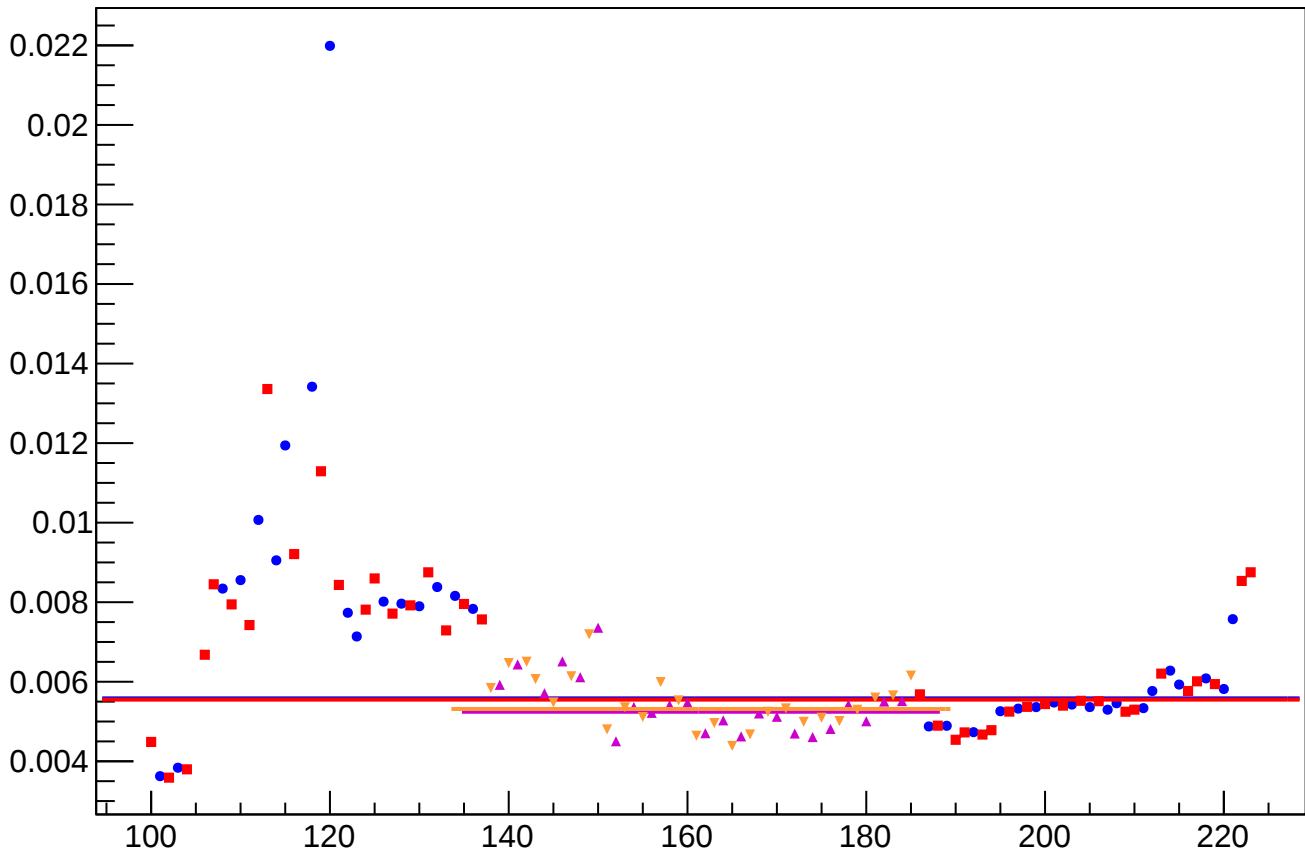
Right: 0.792+/-0.000 χ^2/NDF : 786721994751.3/73

In: 1.494+/-0.000 χ^2/NDF : 1188261922167.8/57

Out: 1.484+/-0.000 χ^2/NDF : 1261003460640.0/63

All: 1.489+/-0.000 χ^2/NDF : 2449324891717.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2187445.8/34

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2209594.3/38

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

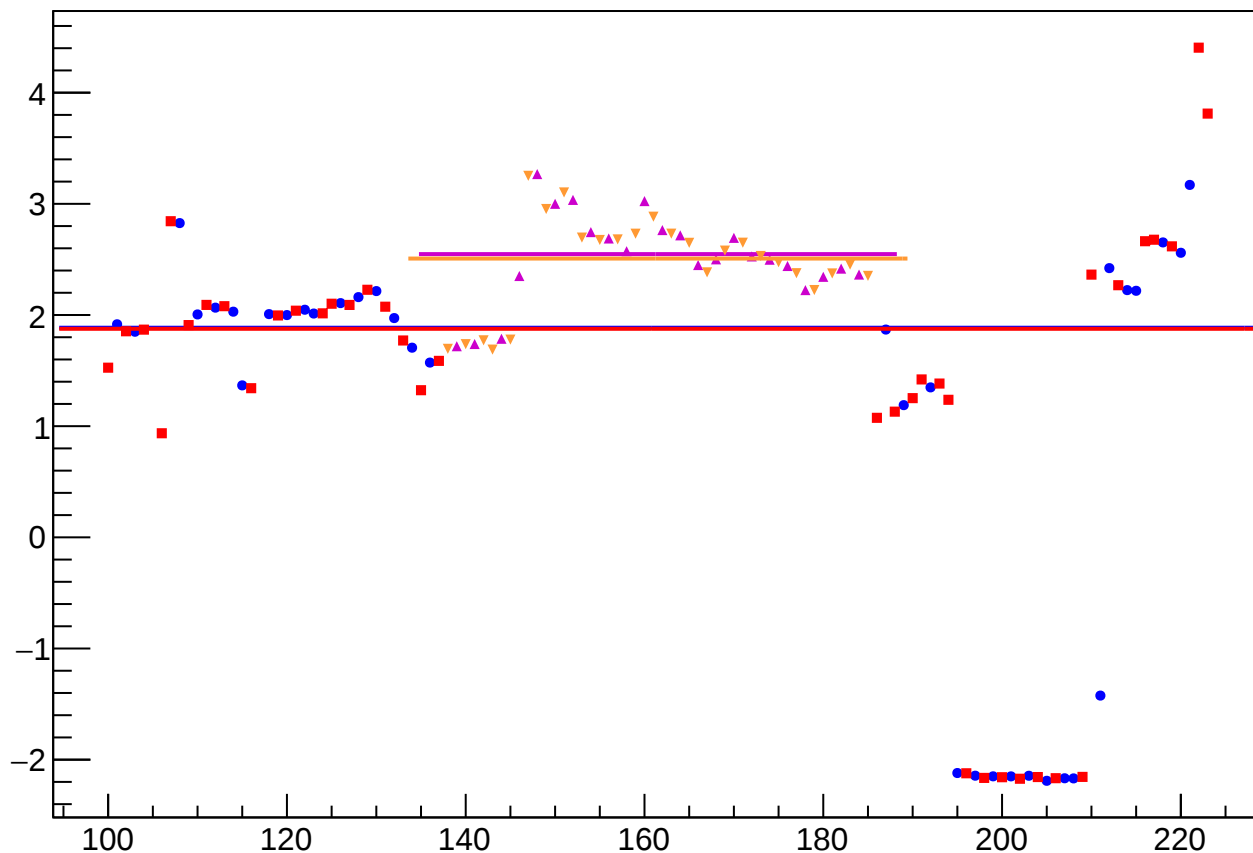
Right: 0.006+/-0.000 χ^2/NDF : 4397602.8/73

In: 0.005+/-0.000 χ^2/NDF :2677424.5/57

Out: 0.005+/-0.000 χ^2/NDF :2641106.3/63

All: 0.005+/-0.000 χ^2/NDF : 5319064.8/121

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.886 $\pm$ 0.000 χ^2 /NDF: 183249310566.2/34

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.876 $\pm$ 0.000 χ^2 /NDF: 204713090429.5/38

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

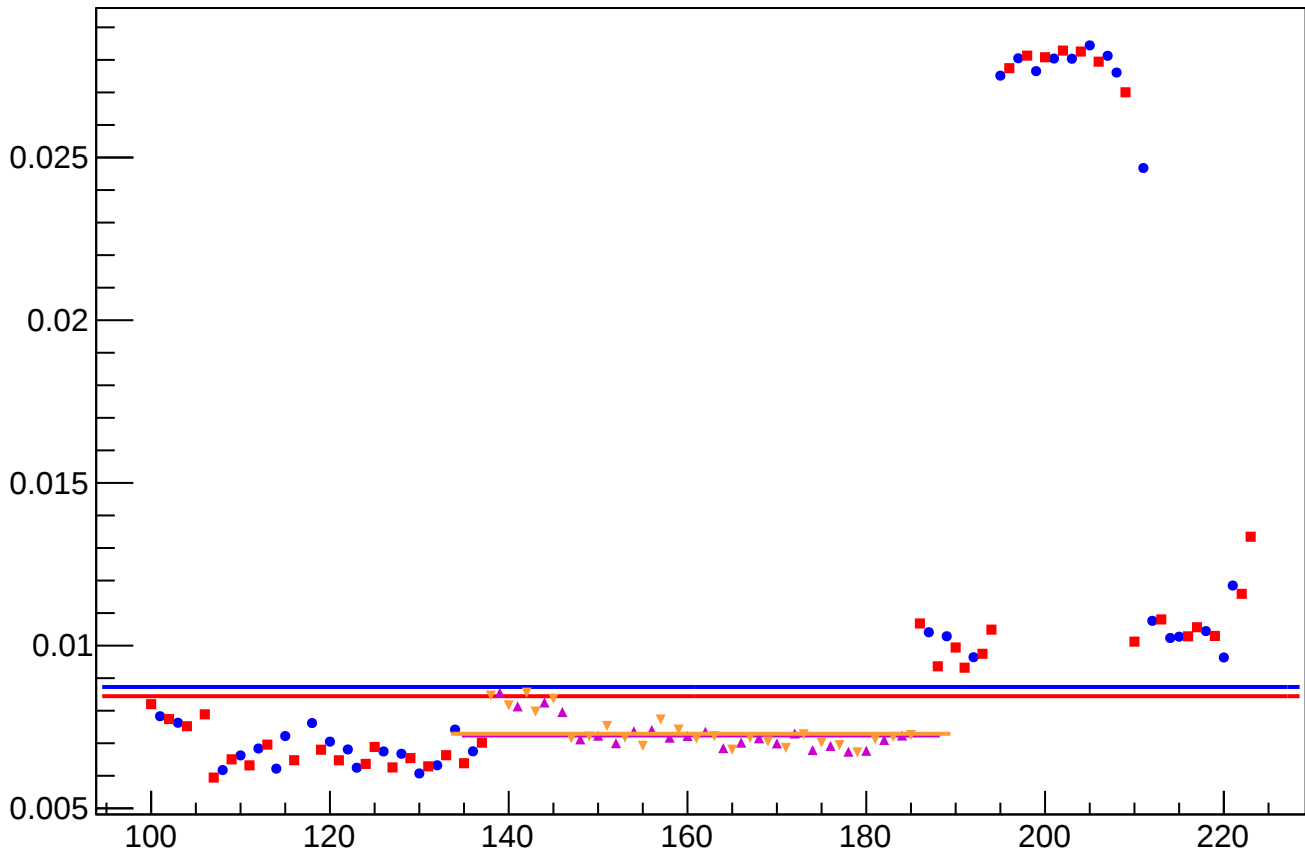
Right: 1.880 $\pm$ 0.000 χ^2 /NDF: 387972040633.8/73

In: 2.290 $\pm$ 0.000 χ^2 /NDF: 282598268076.2/57

Out: 2.247 $\pm$ 0.000 χ^2 /NDF: 311233979966.8/63

All: 2.268 $\pm$ 0.000 χ^2 /NDF: 594347058530.6

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 7864823.3/34

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6788662.1/38

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:125233.2/22

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 266945.6/47

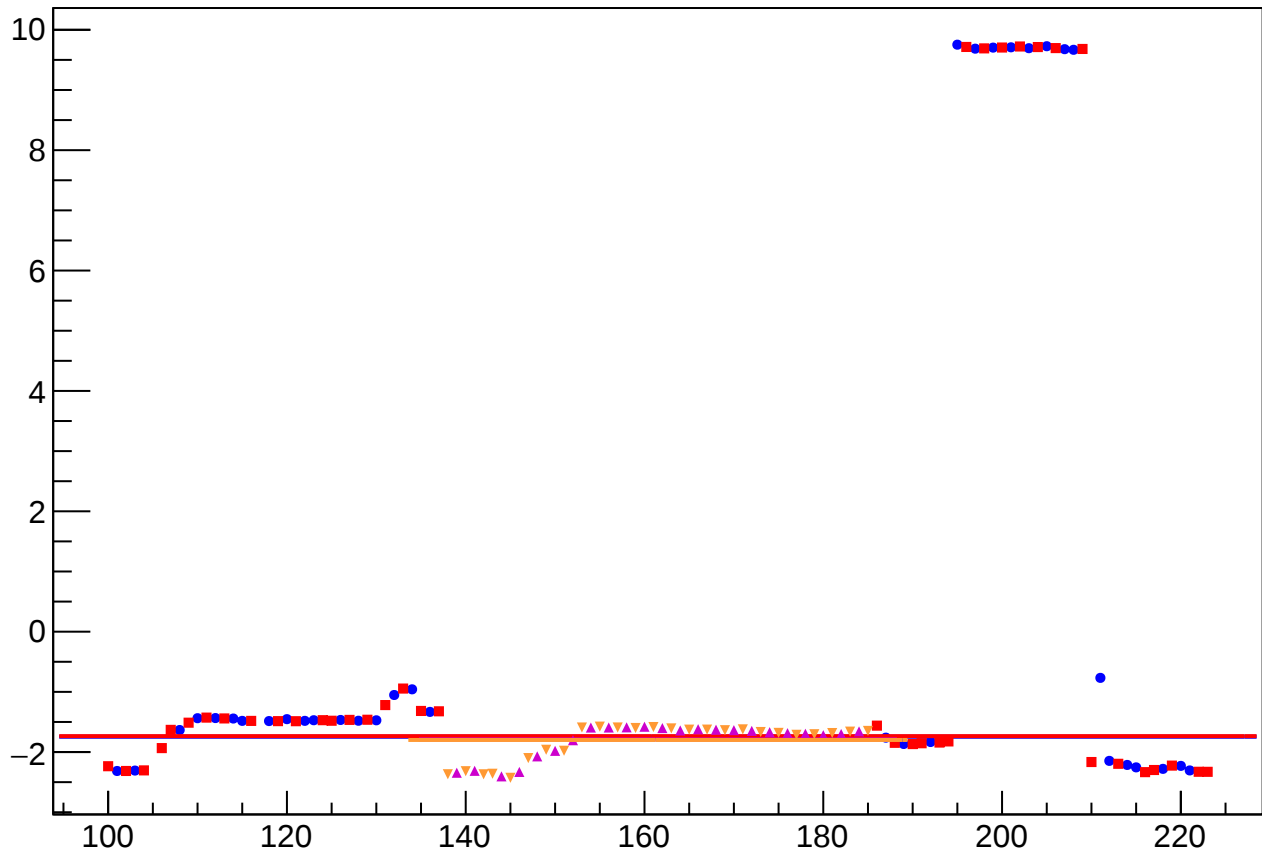
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 14670825.7/73

In: 0.008 $\pm$ 0.000 χ^2 /NDF:8537489.8/57

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:7290805.8/63

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 15829591.6/121

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.745+/-0.000 χ^2/NDF : 445299601235.7/34

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.736+/-0.000 χ^2/NDF : 430554551710.6/38

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

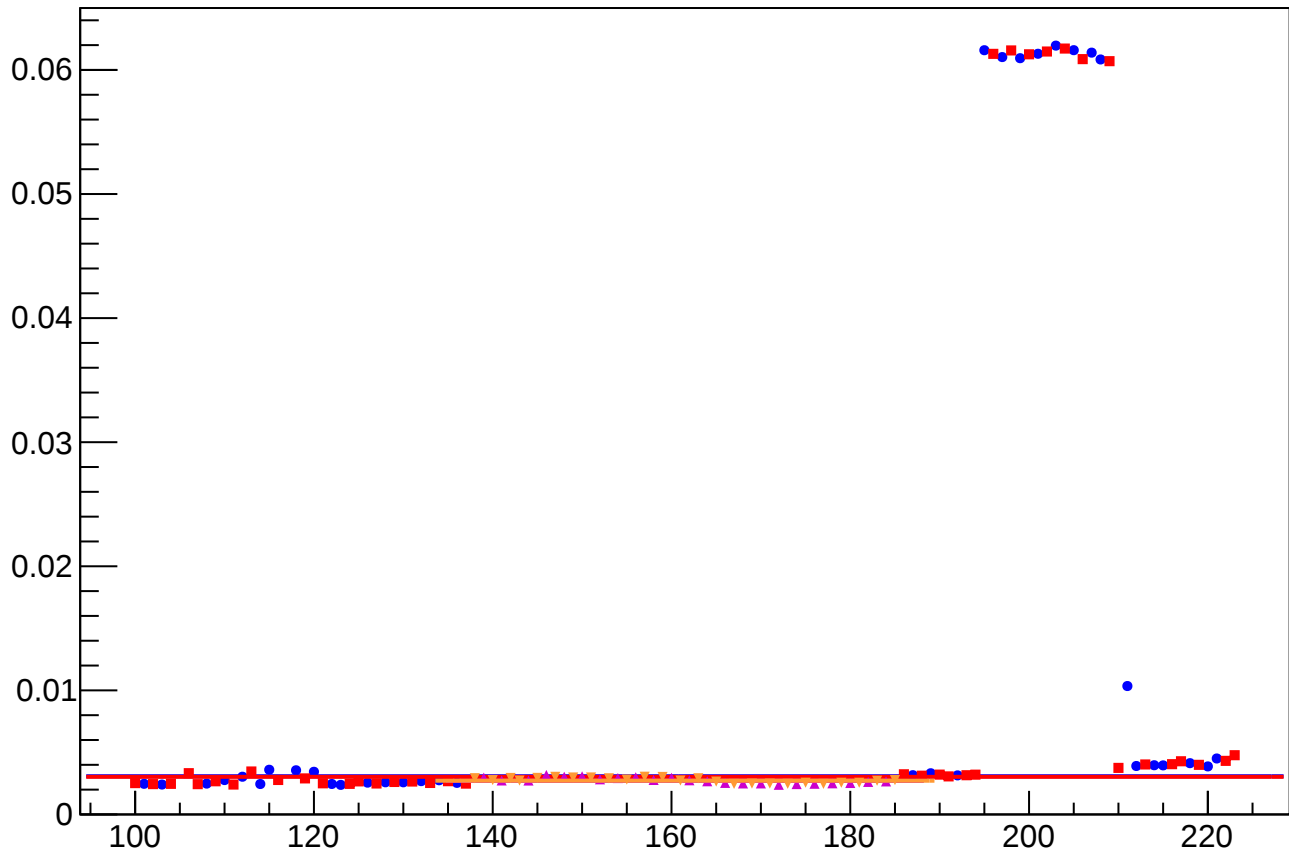
Right: -1.740+/-0.000 χ^2/NDF : 875919066463.4/73

In: -1.774+/-0.000 χ^2/NDF : 606641274998.5/57

Out: -1.774+/-0.000 χ^2/NDF : 619681105249.6/63

All: -1.774+/-0.000 χ^2/NDF : 1226322418868

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 12440384.8/34

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10709607.6/38

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

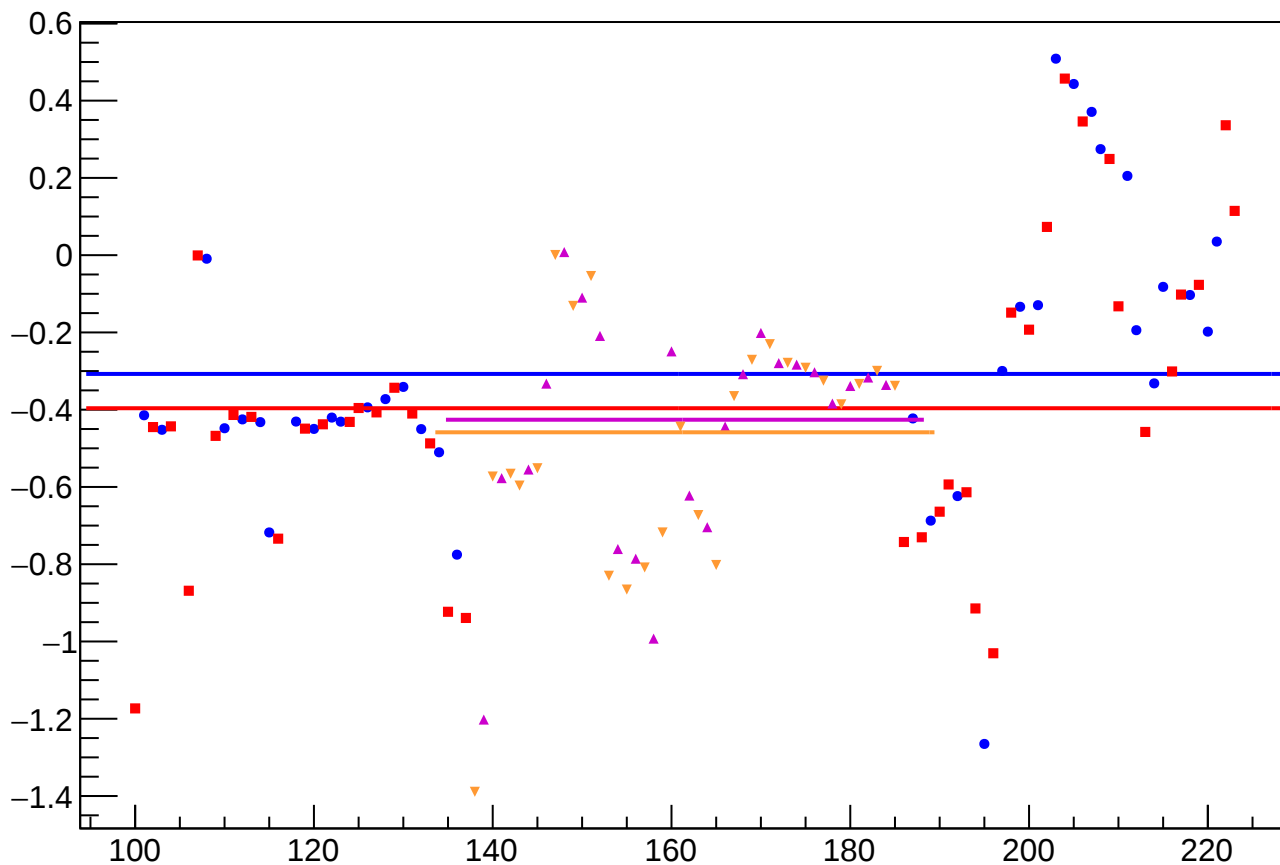
Right: 0.003+/-0.000 χ^2/NDF : 23153358.2/73

In: 0.003+/-0.000 χ^2/NDF :12901704.1/57

Out: 0.003+/-0.000 χ^2/NDF :11094701.5/63

All: 0.003+/-0.000 χ^2/NDF : 23996427.1/121

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.307 ± 0.000 $\chi^2/\text{NDF}: 11282014969.0/34$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.396 ± 0.000 $\chi^2/\text{NDF}: 11694534593.9/38$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

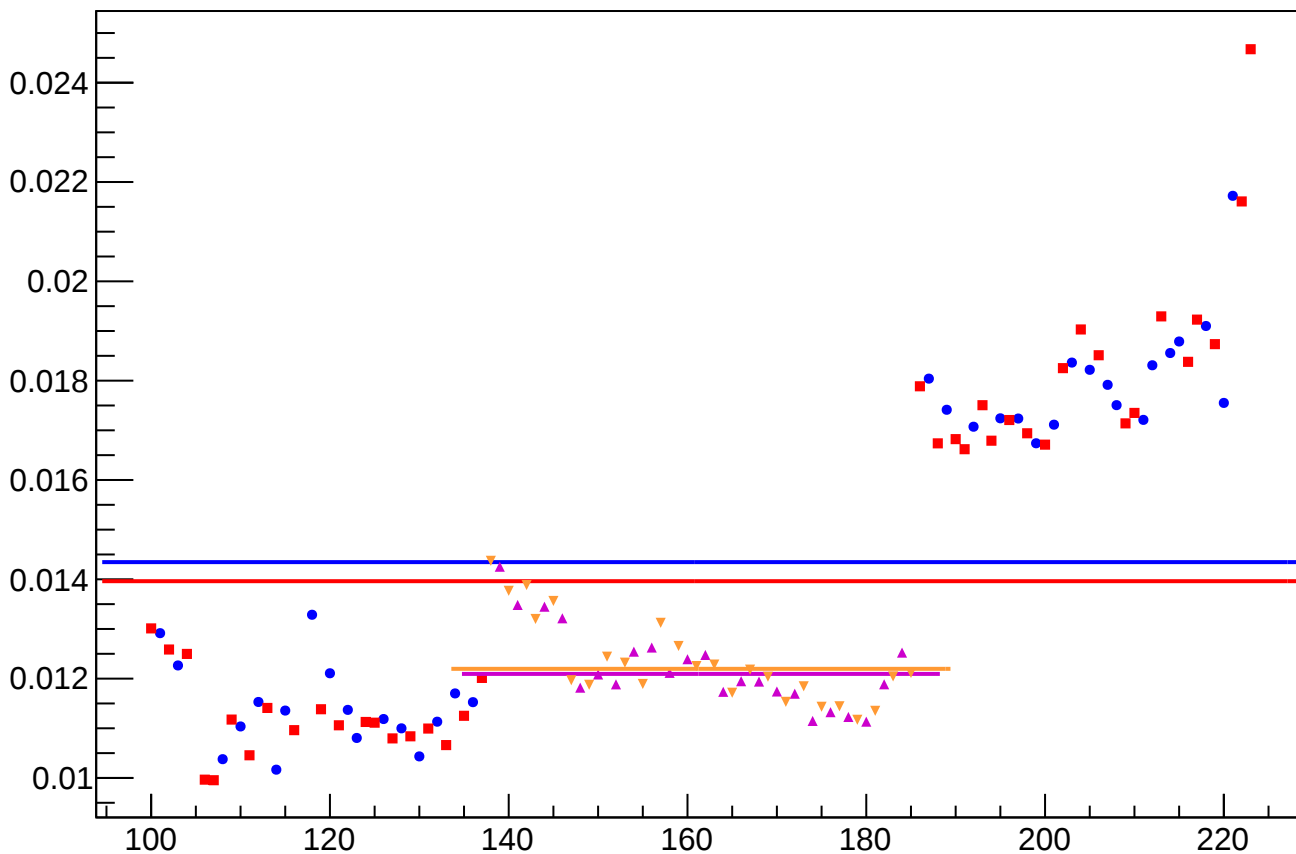
Right: -0.354 ± 0.000 $\chi^2/\text{NDF}: 23342240620.8/73$

In: -0.374 ± 0.000 $\chi^2/\text{NDF}: 20407325624.8/57$

Out: -0.430 ± 0.000 $\chi^2/\text{NDF}: 21817443541.7/63$

All: -0.403 ± 0.000 $\chi^2/\text{NDF}: 42558826963.8/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1981201.0/34

Left Out: 0.012+/-0.000 χ^2/NDF : 141850.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2404026.1/38

Left In: 0.012+/-0.000 χ^2/NDF : 127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

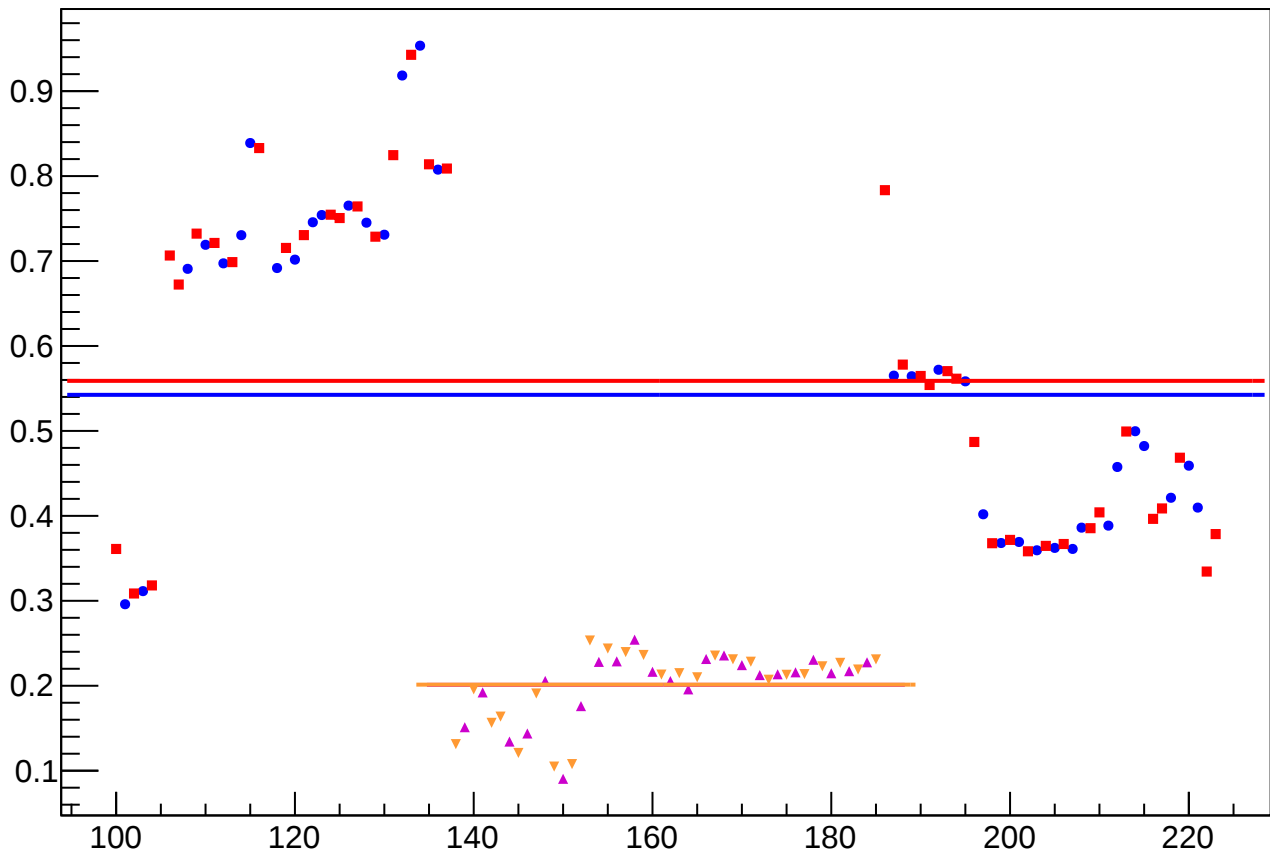
Right: 0.014+/-0.000 χ^2/NDF : 4398896.3/73

In: 0.013+/-0.000 χ^2/NDF : 2613969.0/57

Out: 0.013+/-0.000 χ^2/NDF : 2877281.5/63

All: 0.013+/-0.000 χ^2/NDF : 5493039.6/121

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.542 $\pm$ 0.000 χ^2 /NDF: 79231887268.0/34

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.559 $\pm$ 0.000 χ^2 /NDF: 80735817643.2/38

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

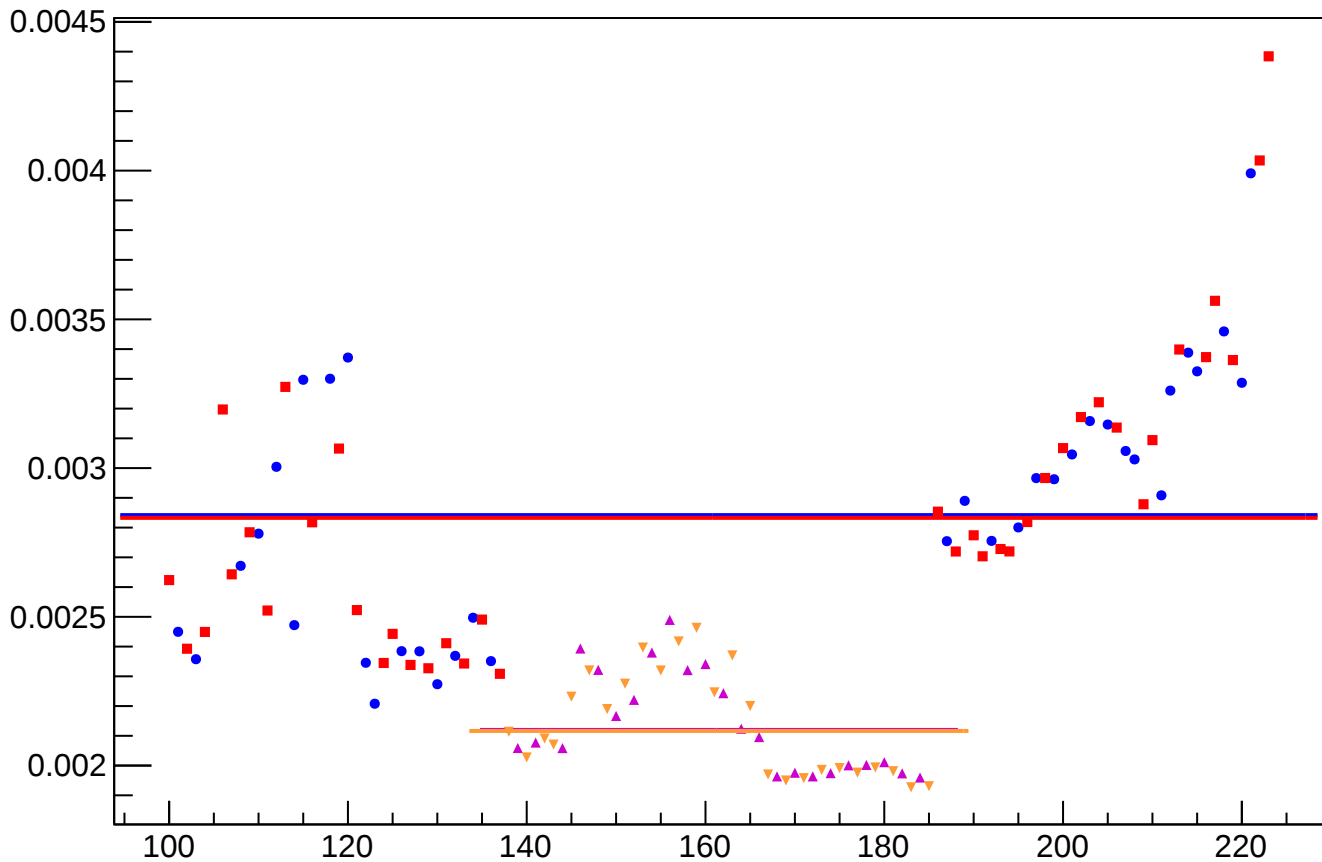
Right: 0.551 $\pm$ 0.000 χ^2 /NDF: 160291236851.3/73

In: 0.331 $\pm$ 0.000 χ^2 /NDF: 254073152521.1/57

Out: 0.336 $\pm$ 0.000 χ^2 /NDF: 282311303883.9/63

All: 0.333 $\pm$ 0.000 χ^2 /NDF: 536450619081.8

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 774054.4/34

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 787785.9/38

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

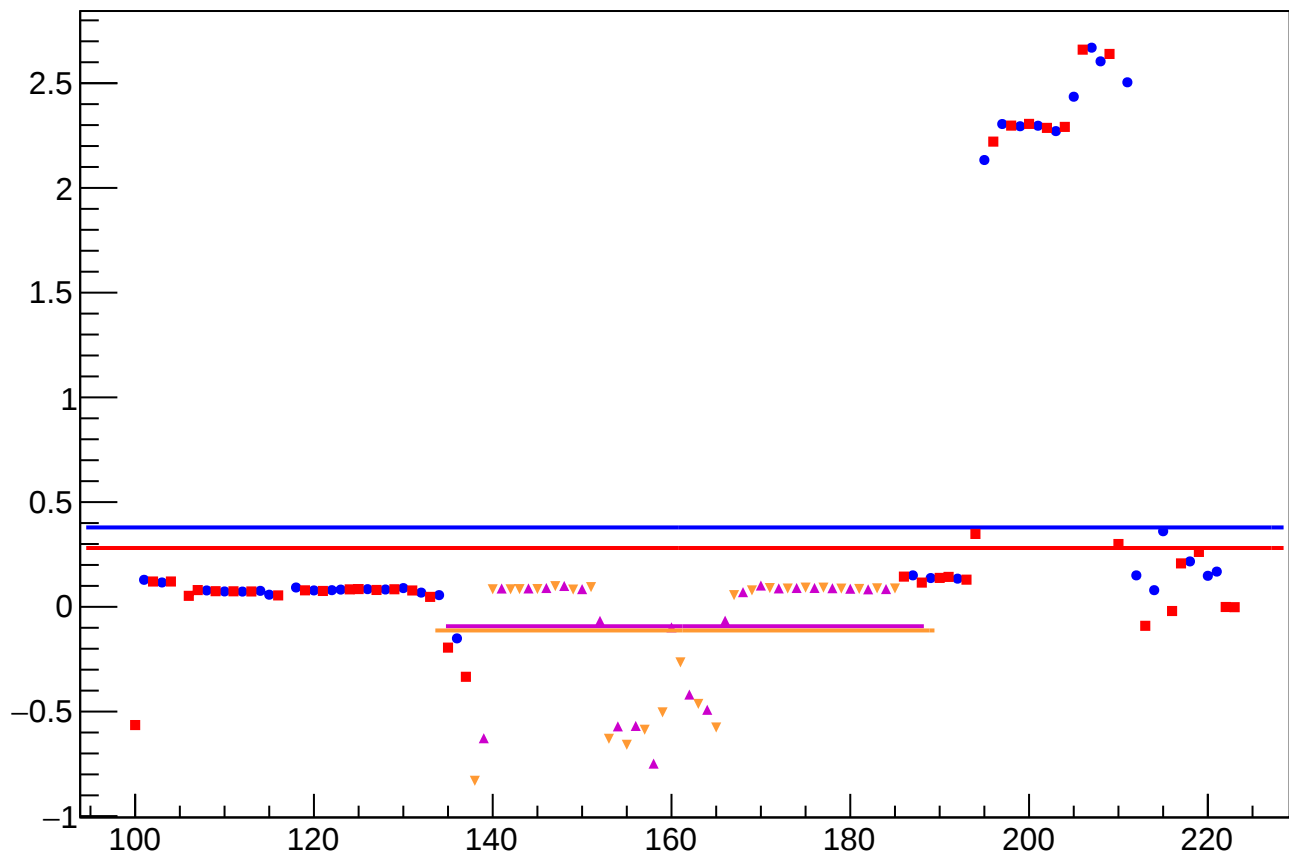
Right: 0.003+/-0.000 χ^2/NDF : 1562041.9/73

In: 0.002+/-0.000 χ^2/NDF :2476853.6/57

Out: 0.002+/-0.000 χ^2/NDF :2573045.8/63

All: 0.002+/-0.000 χ^2/NDF : 5050448.1/121

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.379+/-0.000

χ^2/NDF : 61738883600.3/34

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.327+/-0.000

χ^2/NDF : 114906731118.2/73

Right Out: 0.281+/-0.000

χ^2/NDF : 52644506736.1/38

In: 0.107+/-0.000

χ^2/NDF : 85878824511.0/57

Out: 0.062+/-0.000

χ^2/NDF : 76294043674.3/63

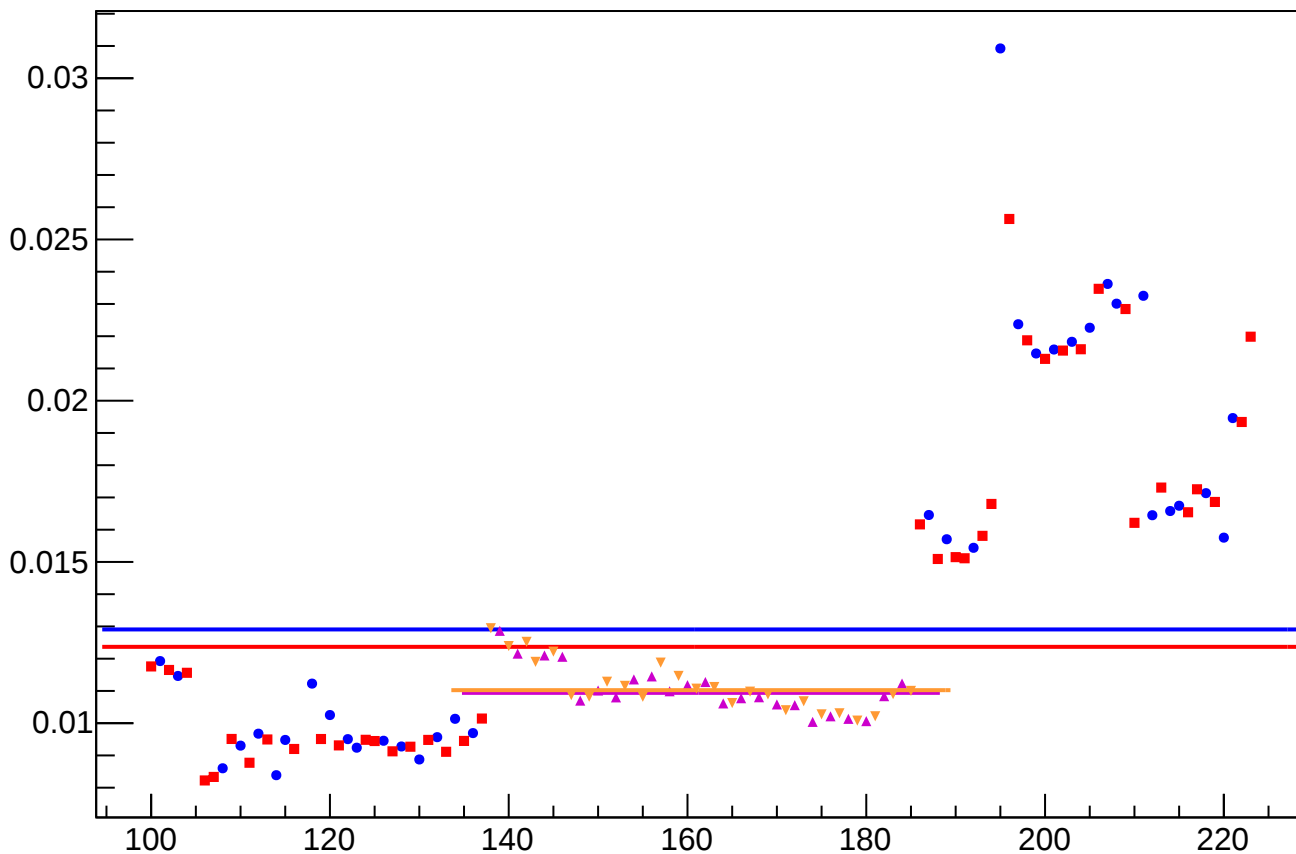
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.084+/-0.000

χ^2/NDF : 162426501127.0

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4835159.3/34

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4733844.1/38

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

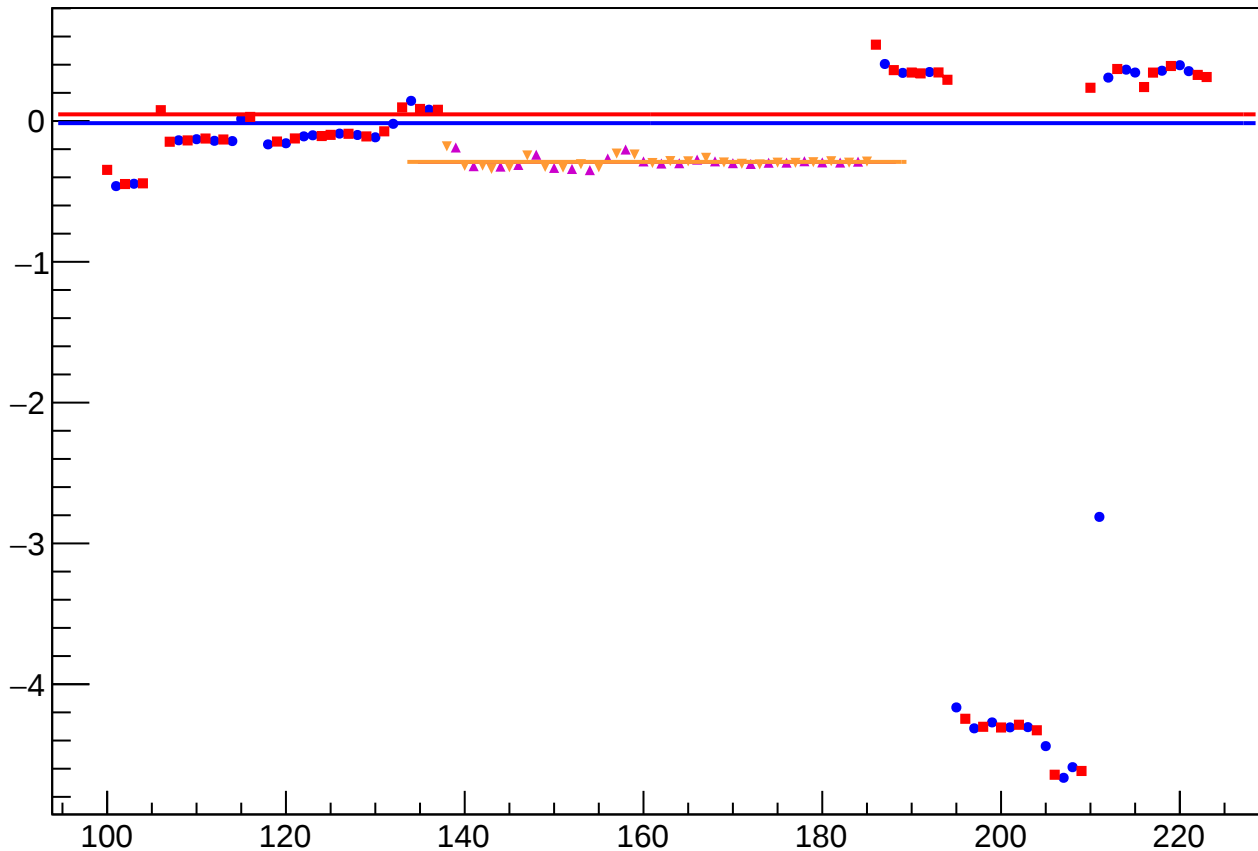
Right: 0.013+/-0.000 χ^2/NDF : 9600608.9/73

In: 0.012+/-0.000 χ^2/NDF :5418833.6/57

Out: 0.012+/-0.000 χ^2/NDF :5107875.5/63

All: 0.012+/-0.000 χ^2/NDF : 10532553.0/121

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.015+/-0.000

χ^2/NDF : 411367282567.6/34

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: 0.018+/-0.000

χ^2/NDF : 772729548672.9/73

Right Out: 0.047+/-0.000

χ^2/NDF : 359955796461.4/38

In: -0.226+/-0.000

χ^2/NDF : 454007417531.7/57

Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

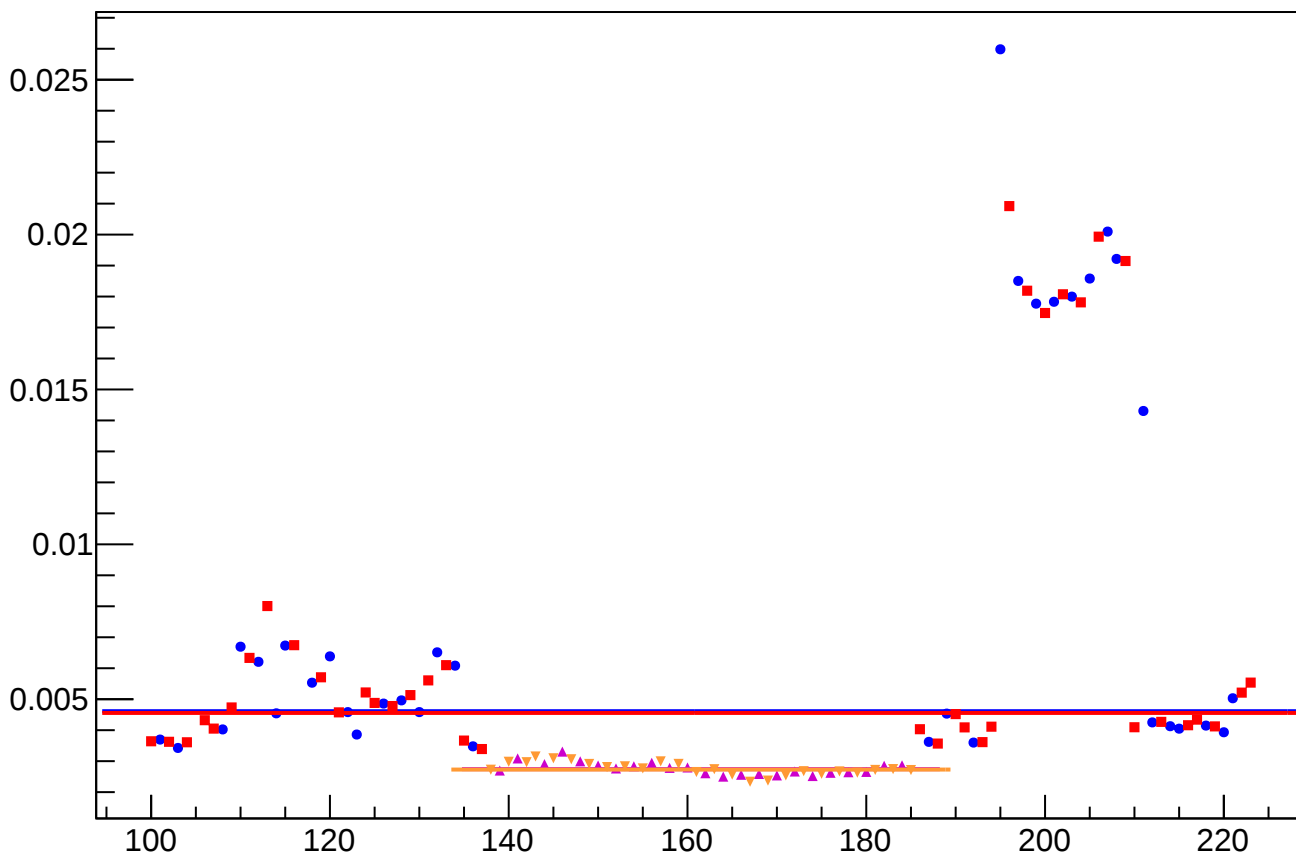
Out: -0.208+/-0.000

χ^2/NDF : 428715819278.1/63

All: -0.216+/-0.000

χ^2/NDF : 883226767219.4

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8664027.2/34

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 7039908.3/38

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

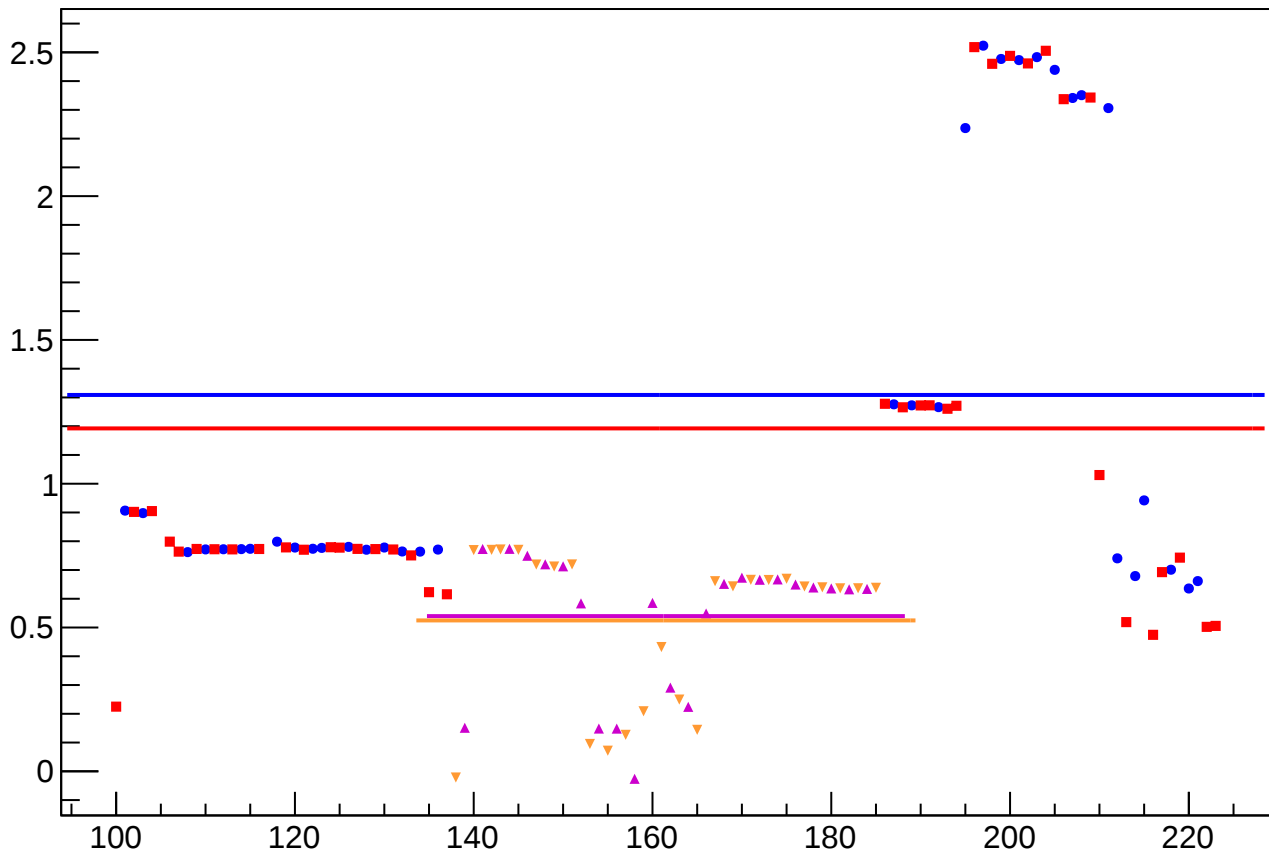
Right: 0.005+/-0.000 χ^2/NDF : 15706164.5/73

In: 0.003+/-0.000 χ^2/NDF :12445156.9/57

Out: 0.003+/-0.000 χ^2/NDF :11112181.0/63

All: 0.003+/-0.000 χ^2/NDF : 23557504.2/121

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.309+/-0.000

χ^2/NDF : 63201184629.8/34

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.248+/-0.000

χ^2/NDF : 122991323396.1/73

Right Out: 1.192+/-0.000

χ^2/NDF : 59002815237.4/38

In: 0.873+/-0.000

χ^2/NDF : 108501954053.9/57

Out: 0.820+/-0.000

χ^2/NDF : 98751584189.7/63

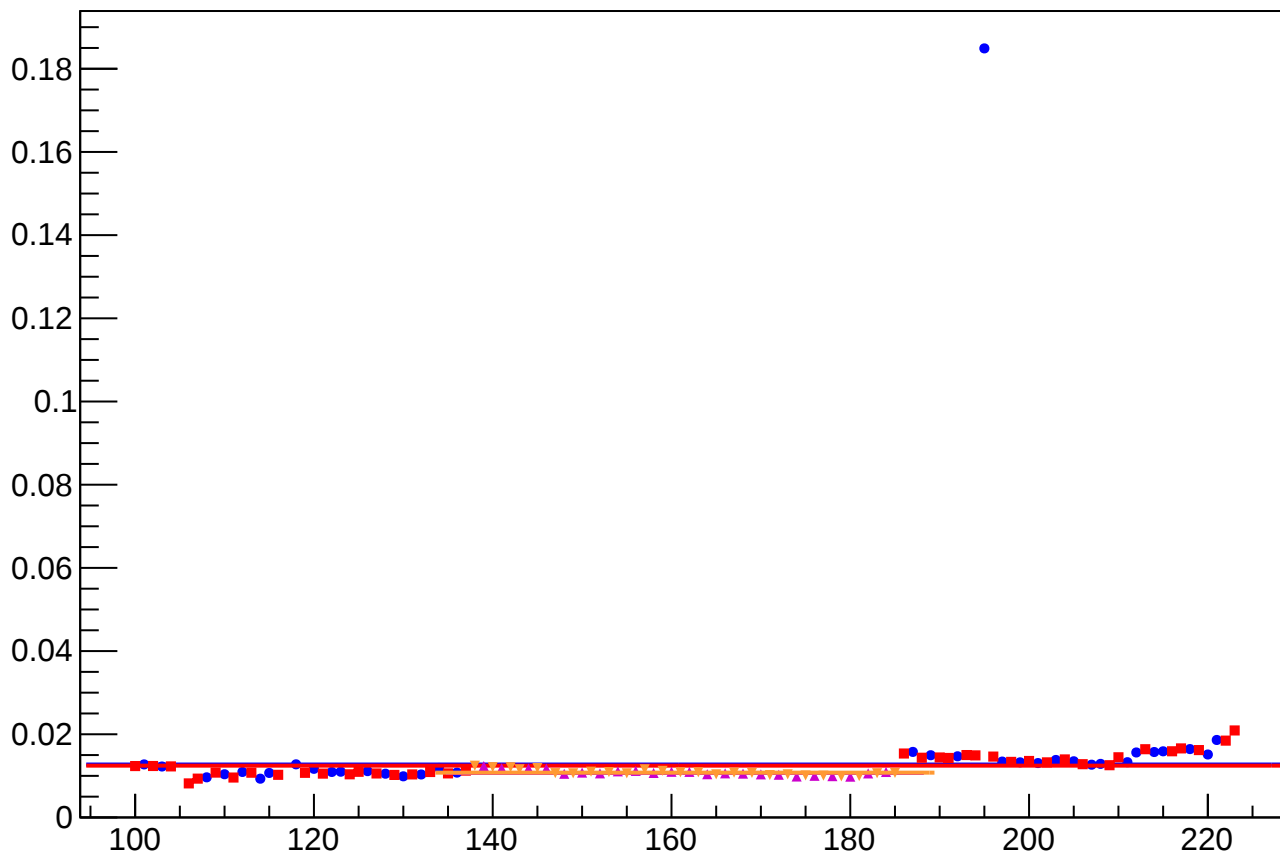
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.846+/-0.000

χ^2/NDF : 207621898533.8

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2431041.7/34

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 1419060.0/38

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

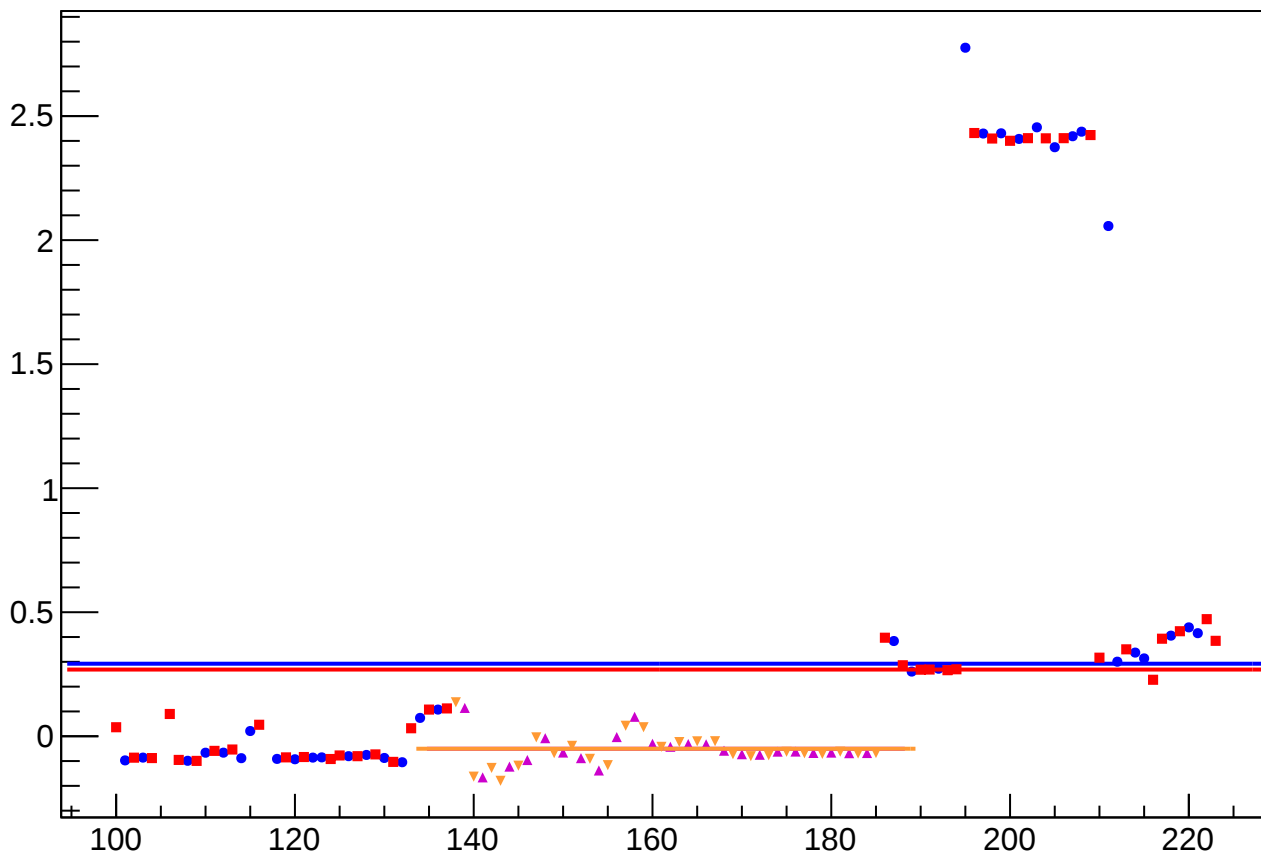
Right: 0.013+/-0.000 χ^2/NDF : 3858515.3/73

In: 0.012+/-0.000 χ^2/NDF :3073343.0/57

Out: 0.012+/-0.000 χ^2/NDF :1934870.9/63

All: 0.012+/-0.000 χ^2/NDF : 5009073.1/121

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.292 $\pm$ 0.000 χ^2 /NDF: 198738240390.3/34

Left Out: -0.050 $\pm$ 0.000 χ^2 /NDF: 7271496478.6/24

Right Out: 0.269 $\pm$ 0.000 χ^2 /NDF: 163858931069.4/38

Left In: -0.051 $\pm$ 0.000 χ^2 /NDF: 6128769990.8/22

Left: -0.050 $\pm$ 0.000 χ^2 /NDF: 13400329490.2/47

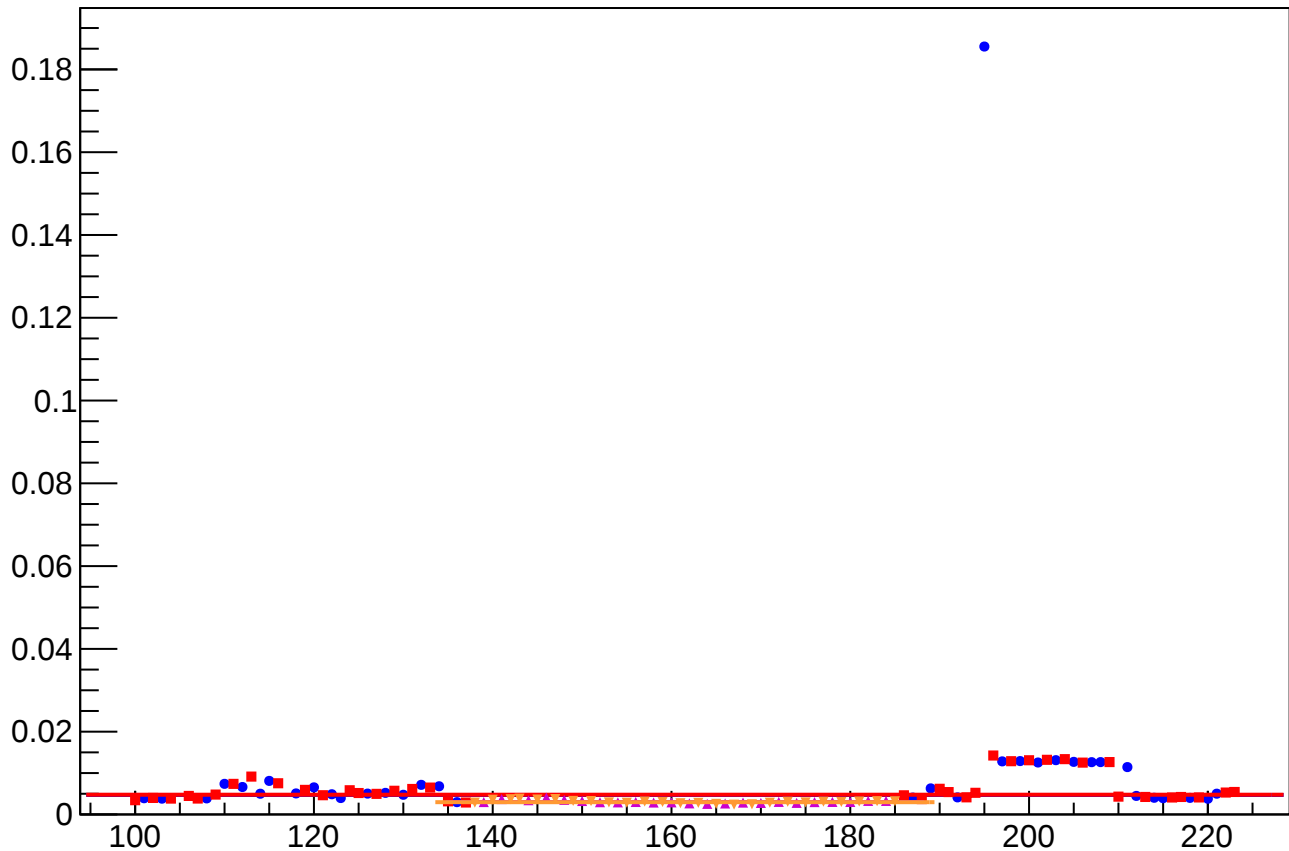
Right: 0.280 $\pm$ 0.000 χ^2 /NDF: 362786422387.8/73

In: 0.043 $\pm$ 0.000 χ^2 /NDF: 261903958315.9/57

Out: 0.034 $\pm$ 0.000 χ^2 /NDF: 223662354882.1/63

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 485654623631.5

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7606287.3/34

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5287714.5/38

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

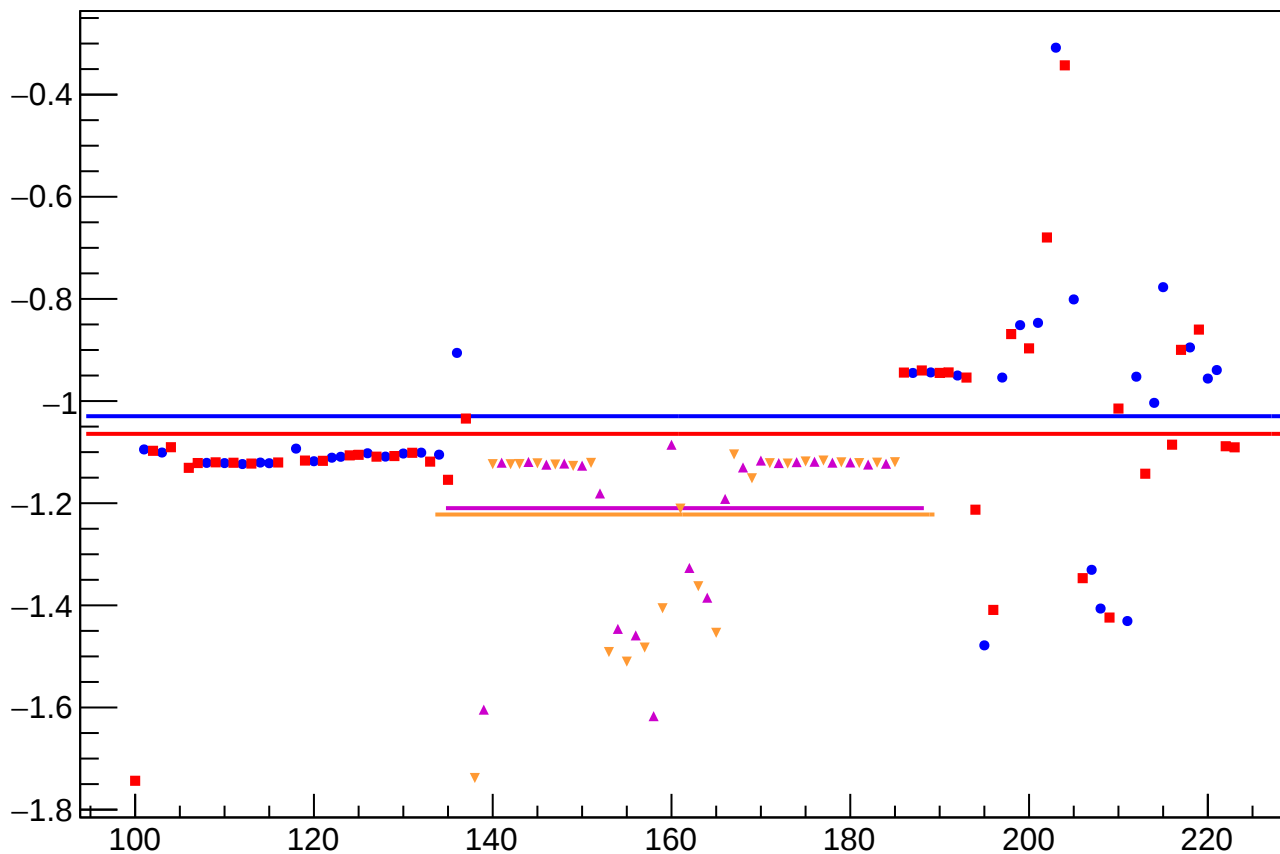
Right: 0.005+/-0.000 χ^2/NDF : 12896858.7/73

In: 0.003+/-0.000 χ^2/NDF : 10725690.3/57

Out: 0.003+/-0.000 χ^2/NDF : 9131372.8/63

All: 0.003+/-0.000 χ^2/NDF : 19858461.6/121

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000 χ^2/NDF : 5994689832.4/34

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.064+/-0.000 χ^2/NDF : 4917755432.2/38

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

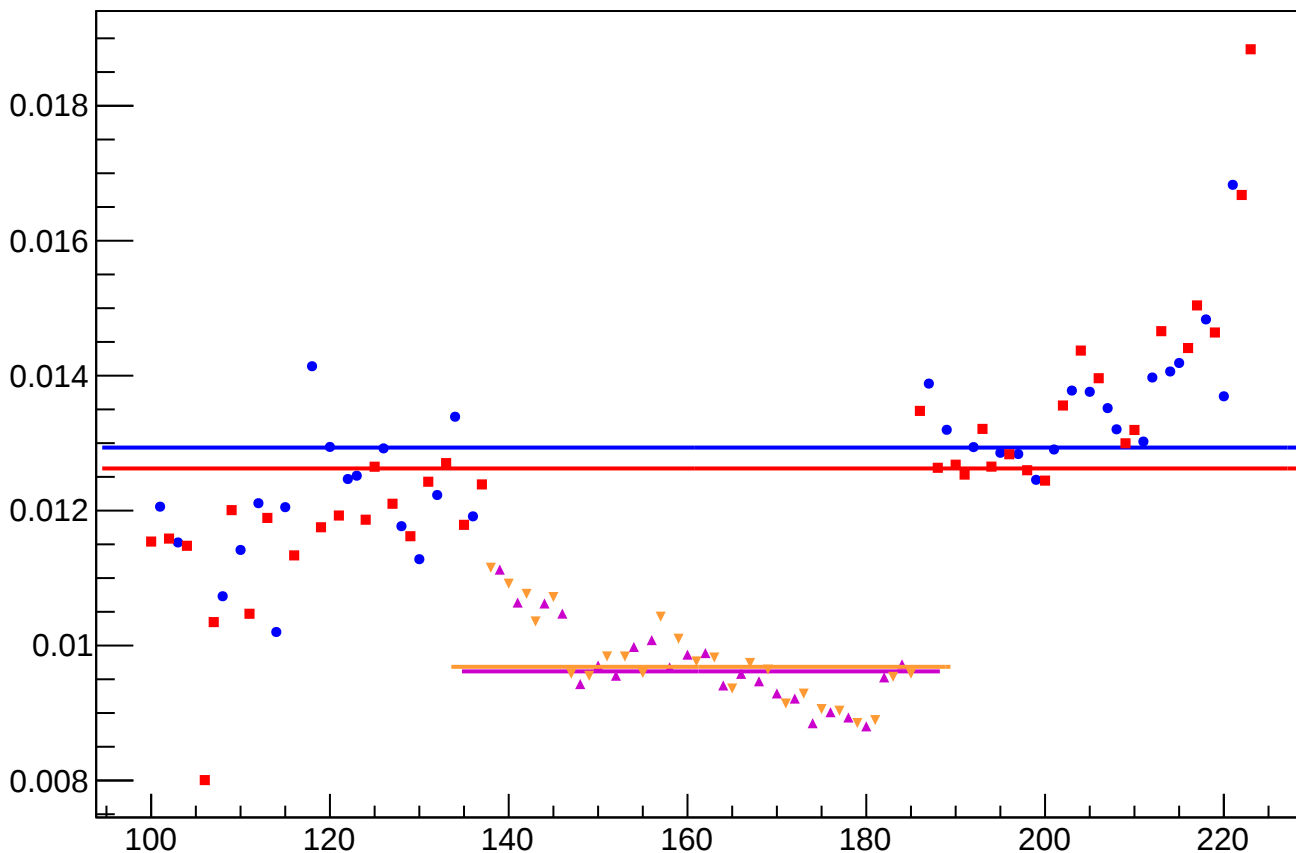
Right: -1.048+/-0.000 χ^2/NDF : 10983481574.0/73

In: -1.140+/-0.000 χ^2/NDF : 12769913683.0/57

Out: -1.160+/-0.000 χ^2/NDF : 12063888964.8/63

All: -1.150+/-0.000 χ^2/NDF : 24892725502.1/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 310837.9/34

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.013+/-0.000 χ^2/NDF : 643276.8/38

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

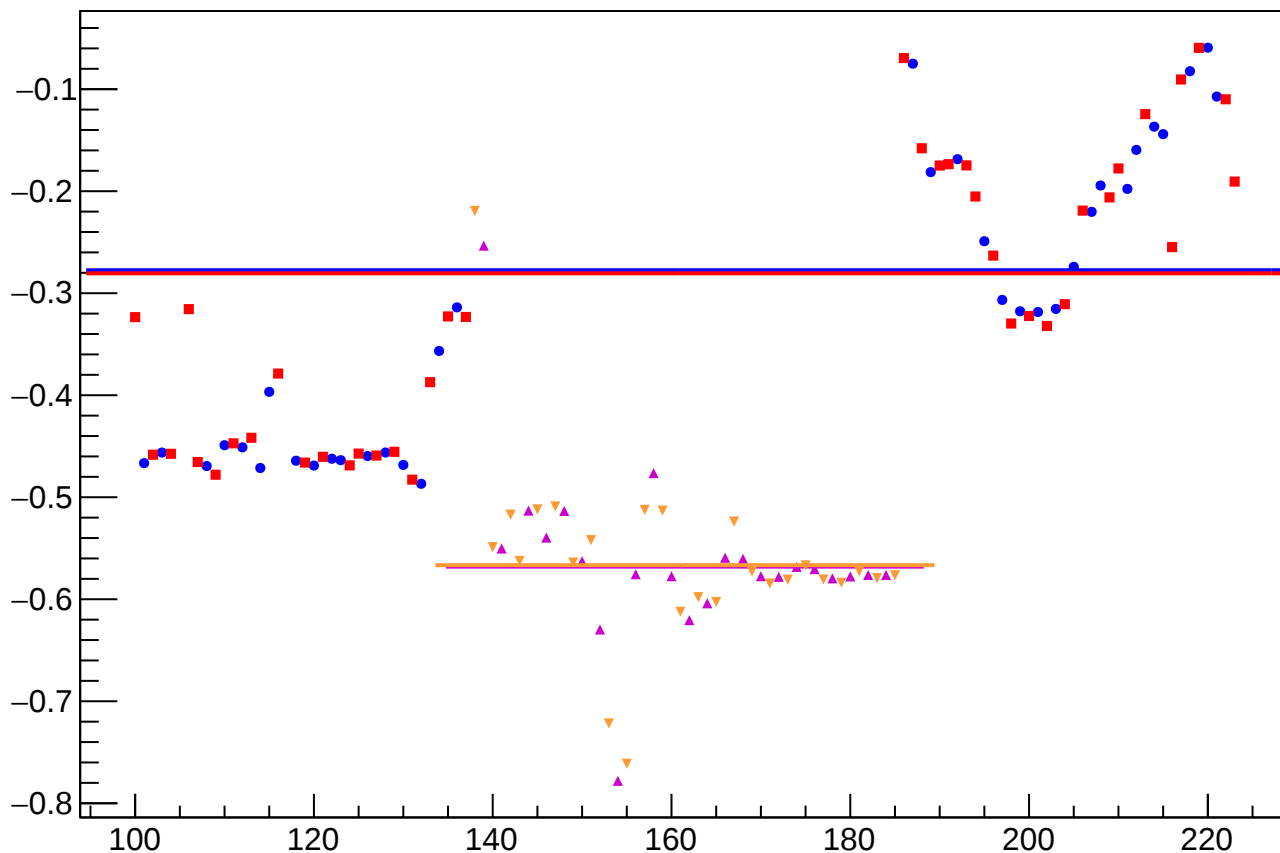
Right: 0.013+/-0.000 χ^2/NDF : 965507.0/73

In: 0.011+/-0.000 χ^2/NDF :1974067.3/57

Out: 0.011+/-0.000 χ^2/NDF :2072492.5/63

All: 0.011+/-0.000 χ^2/NDF : 4047439.4/121

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.277+/-0.000

χ^2/NDF : 20948186241.1/34

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.279+/-0.000

χ^2/NDF : 41172593414.4/73

Right Out: -0.281+/-0.000

χ^2/NDF : 20218297008.6/38

In: -0.430+/-0.000

χ^2/NDF : 90681696062.2/57

Out: -0.439+/-0.000

χ^2/NDF : 91912283751.6/63

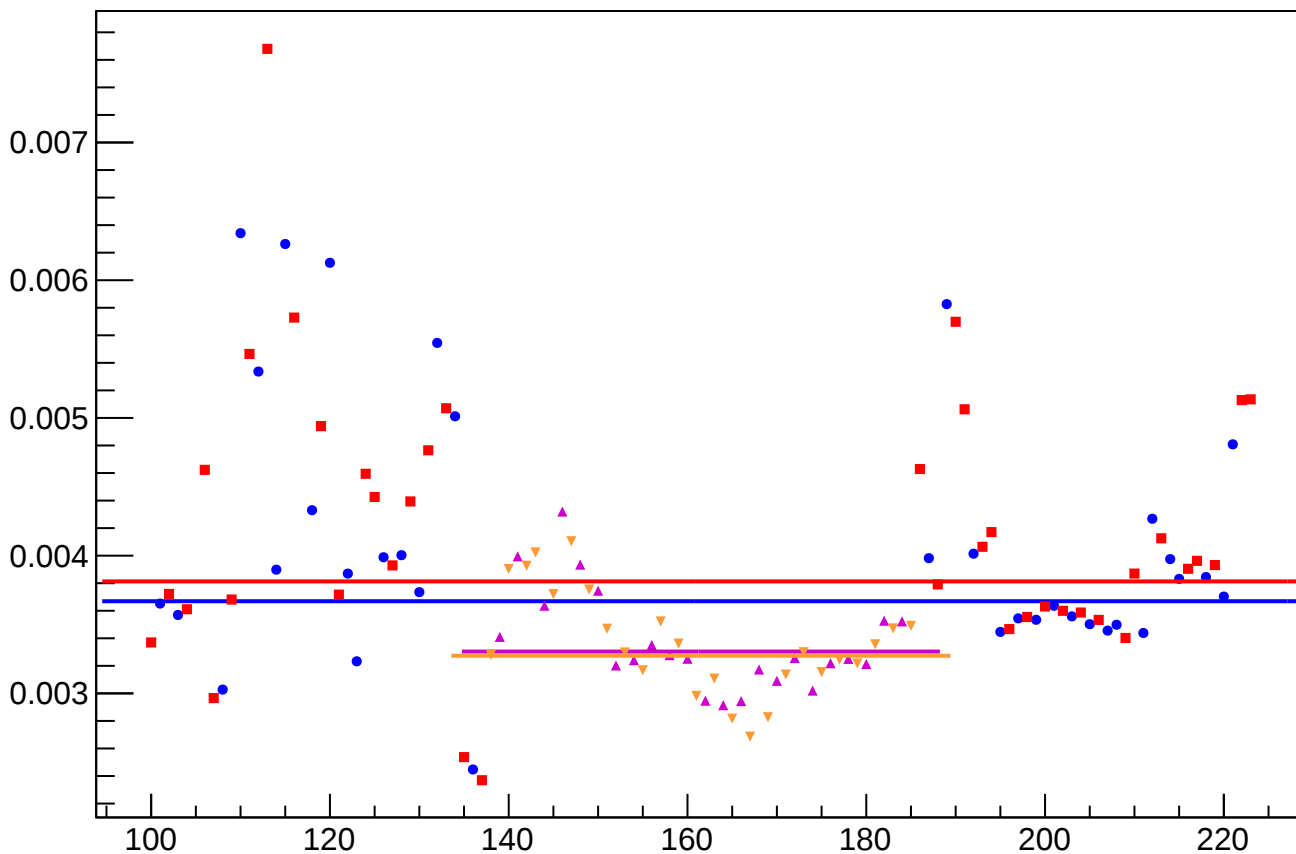
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.435+/-0.000

χ^2/NDF : 182716432249.4

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 1154709.8/34

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1255414.7/38

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 286064.1/22

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 682340.4/47

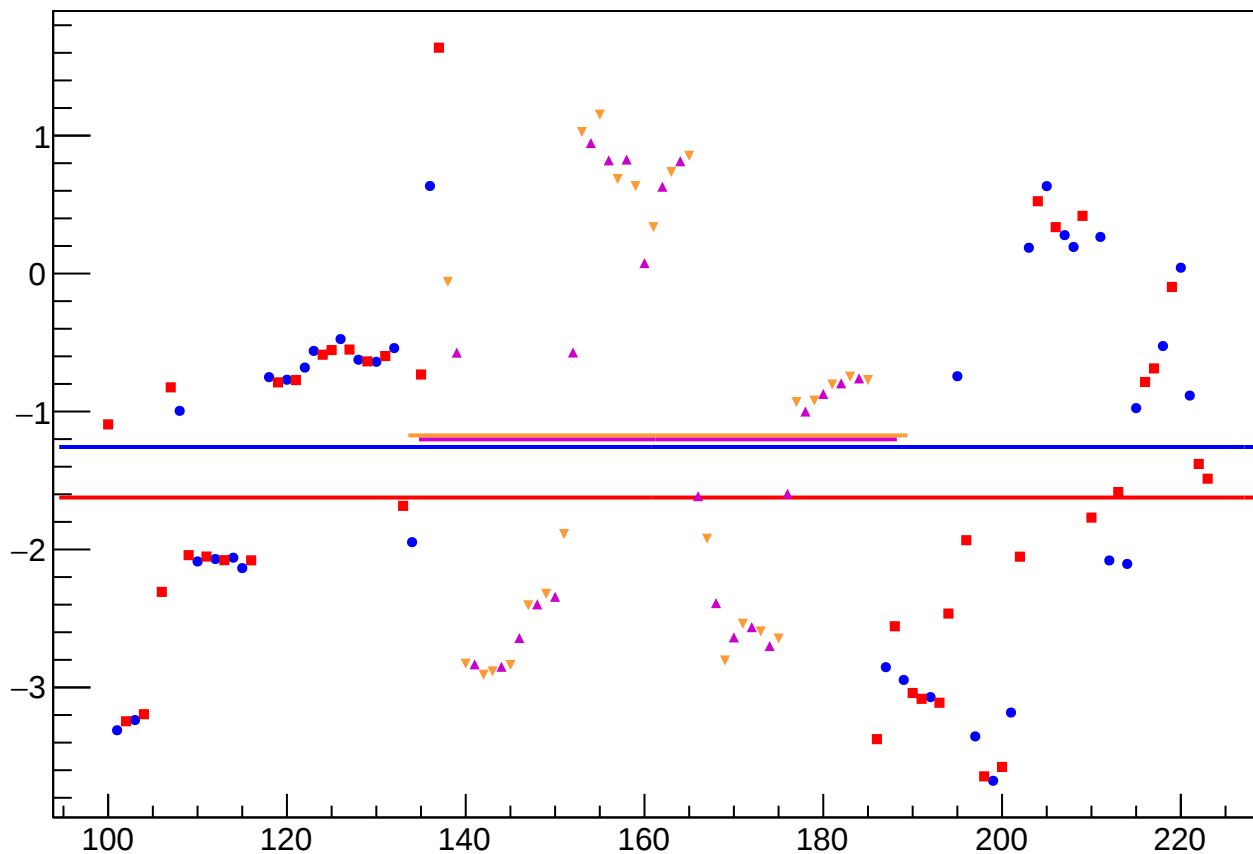
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 2437244.5/73

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1628382.0/57

Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 2065398.5/63

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3697532.3/121

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.257+/-0.000 χ^2/NDF : 6538150728.8/34

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.623+/-0.000 χ^2/NDF : 5687387125.3/38

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

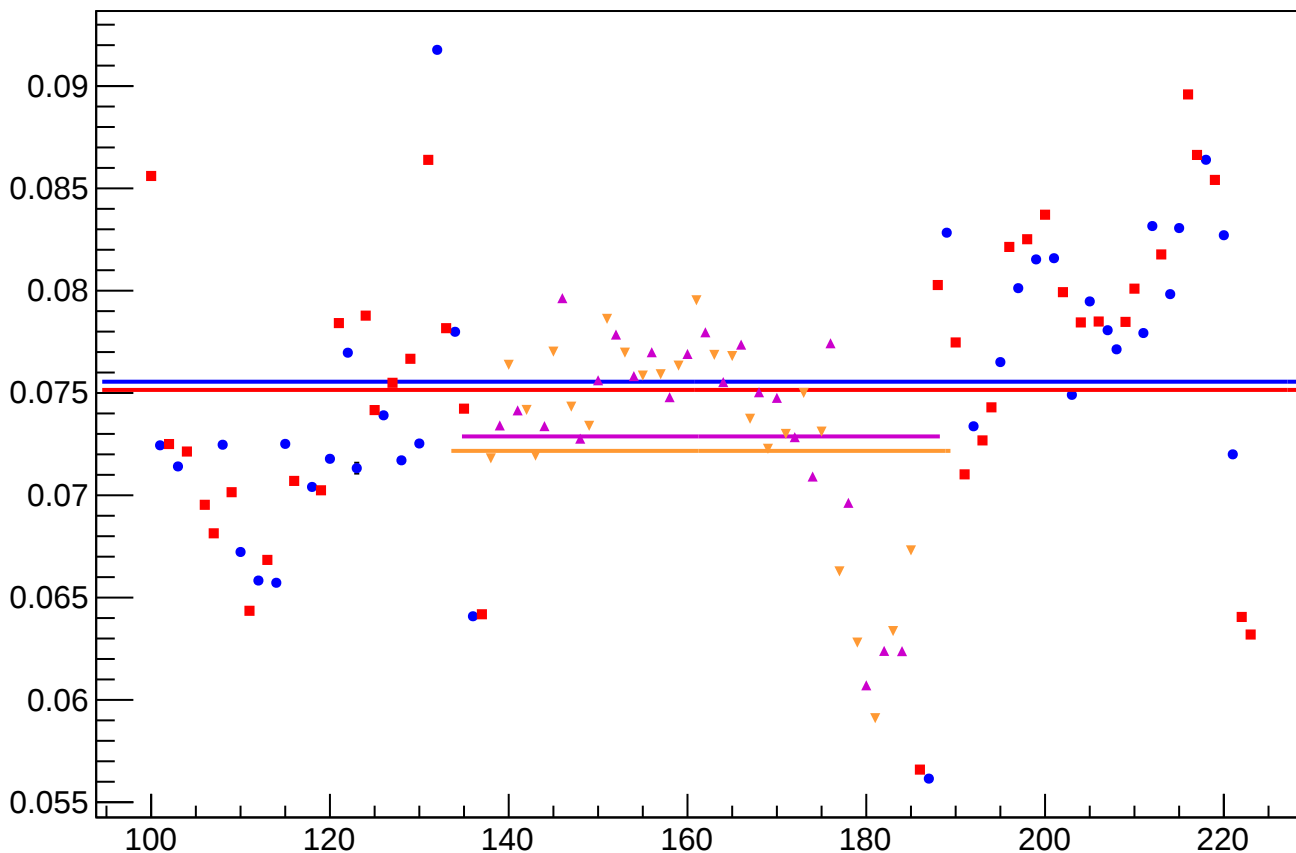
Right: -1.445+/-0.000 χ^2/NDF : 12460734674.2/73

In: -1.230+/-0.000 χ^2/NDF : 12149996504.9/57

Out: -1.402+/-0.000 χ^2/NDF : 12927355339.2/63

All: -1.319+/-0.000 χ^2/NDF : 25178279136.4/141

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.076 $\pm$ 0.000 χ^2 /NDF: 274091.2/34

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 407874.0/38

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

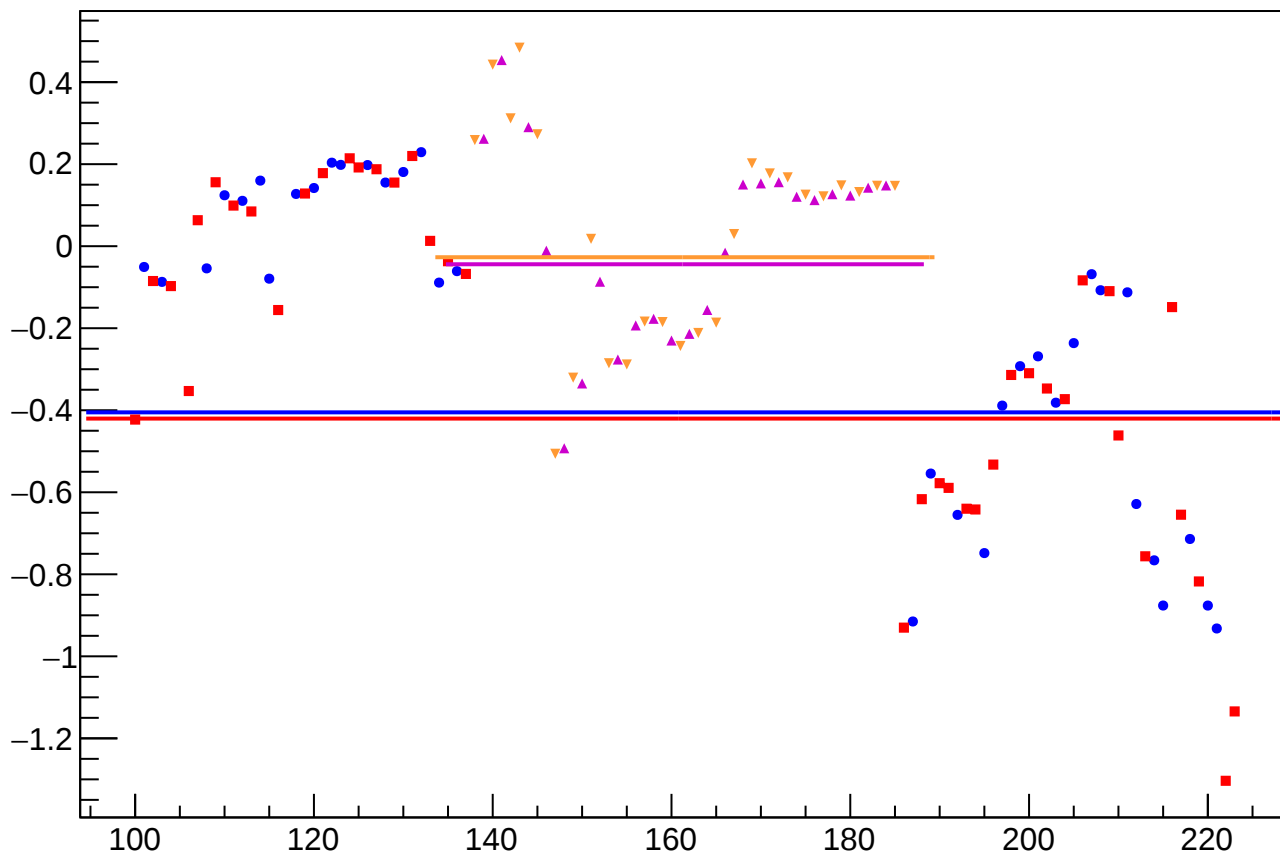
Right: 0.075 $\pm$ 0.000 χ^2 /NDF: 682530.6/73

In: 0.074 $\pm$ 0.000 χ^2 /NDF:481233.3/57

Out: 0.074 $\pm$ 0.000 χ^2 /NDF:661407.7/63

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 1144890.4/121

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.405+/-0.000 χ^2/NDF : 32639891563.4/34

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.420+/-0.000 χ^2/NDF : 33990530382.5/38

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

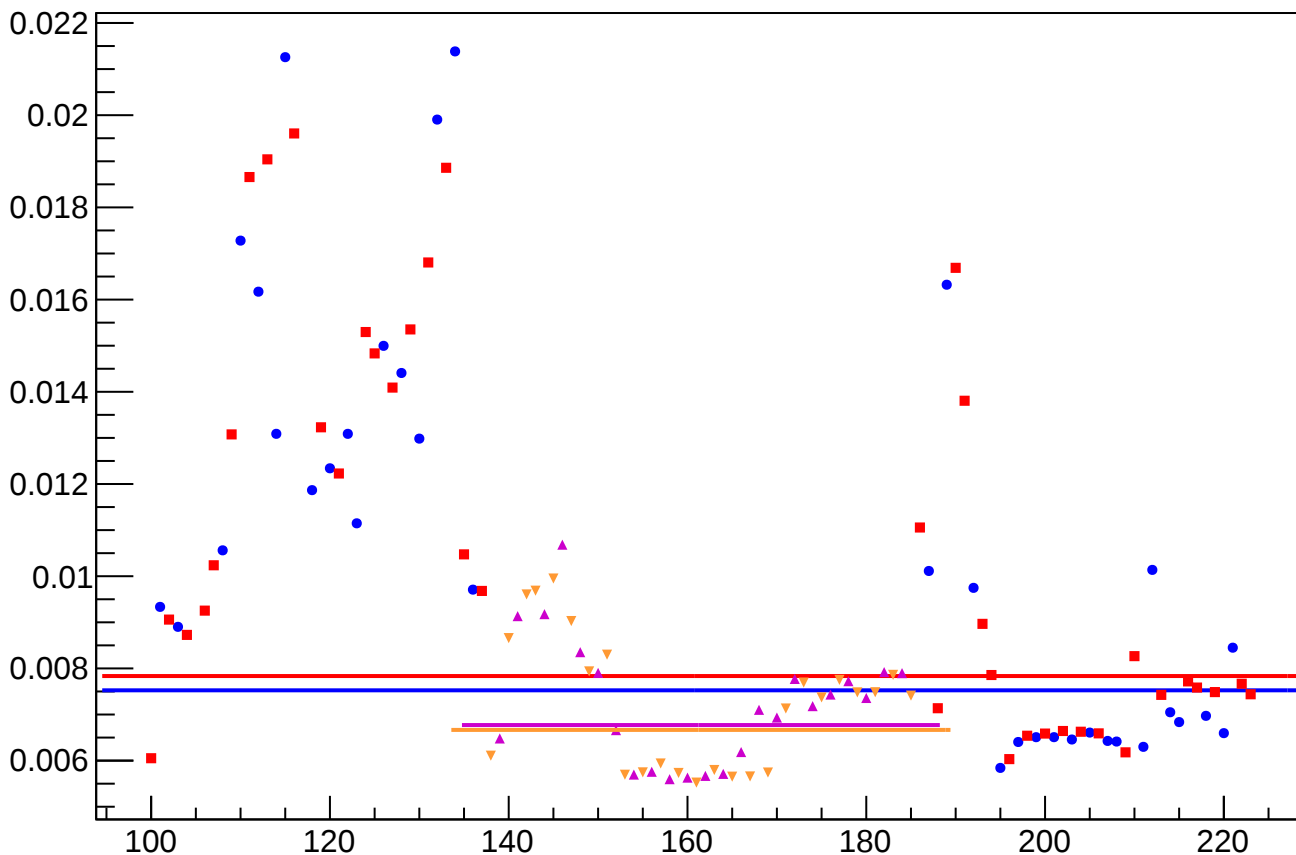
Right: -0.412+/-0.000 χ^2/NDF : 66664411863.1/73

In: -0.213+/-0.000 χ^2/NDF : 69461183570.9/57

Out: -0.196+/-0.000 χ^2/NDF : 79533118214.1/63

All: -0.205+/-0.000 χ^2/NDF : 149092134408.3

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 3024299.1/34

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3088941.5/38

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

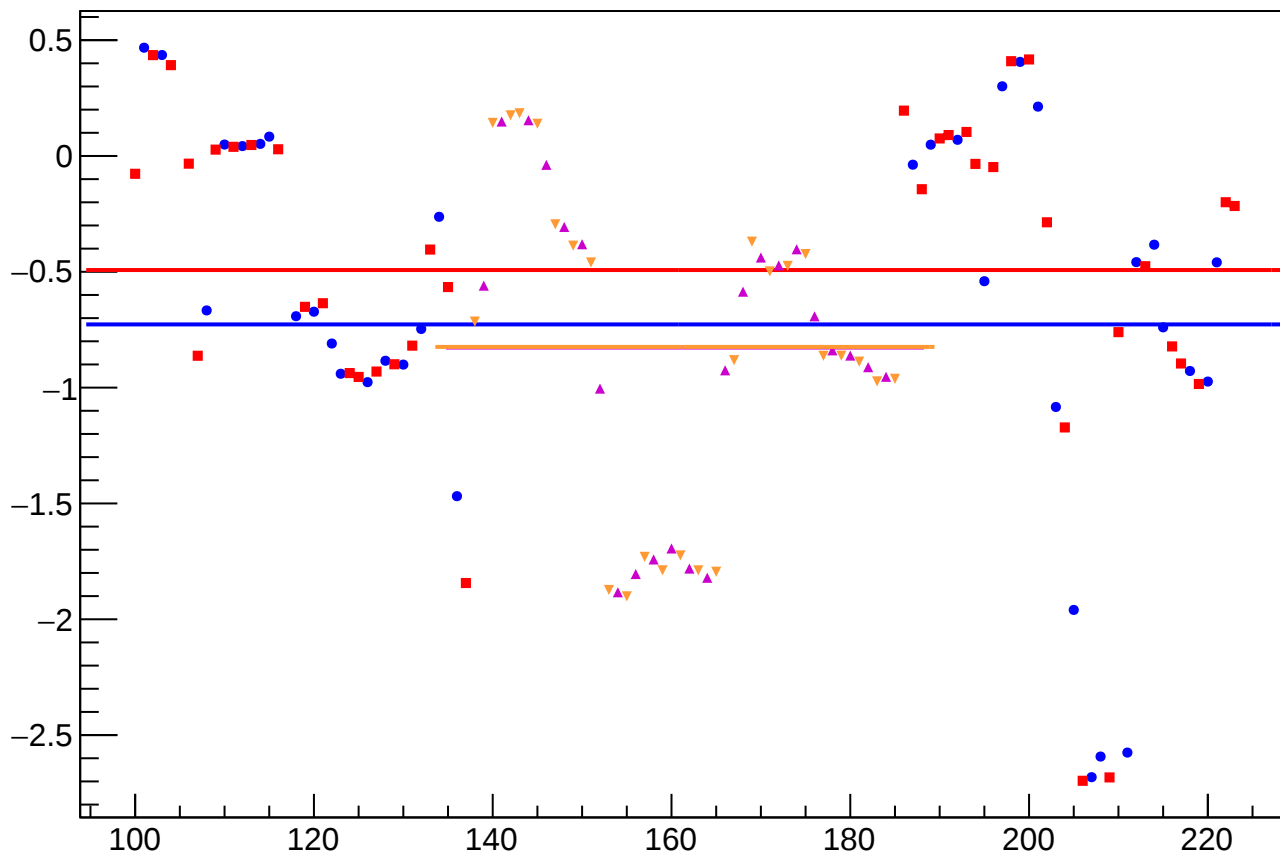
Right: 0.008+/-0.000 χ^2/NDF : 6141508.4/73

In: 0.007+/-0.000 χ^2/NDF :4142019.7/57

Out: 0.007+/-0.000 χ^2/NDF :4676671.4/63

All: 0.007+/-0.000 χ^2/NDF : 8819953.3/121

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.727 $\pm$ 0.000 χ^2/NDF : 1783453708.2/34

Left Out: -0.824 $\pm$ 0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.492 $\pm$ 0.000 χ^2/NDF : 1528018900.3/38

Left In: -0.827 $\pm$ 0.000 χ^2/NDF : 921651117.3/22

Left: -0.826 $\pm$ 0.000 χ^2/NDF : 2025270716.0/47

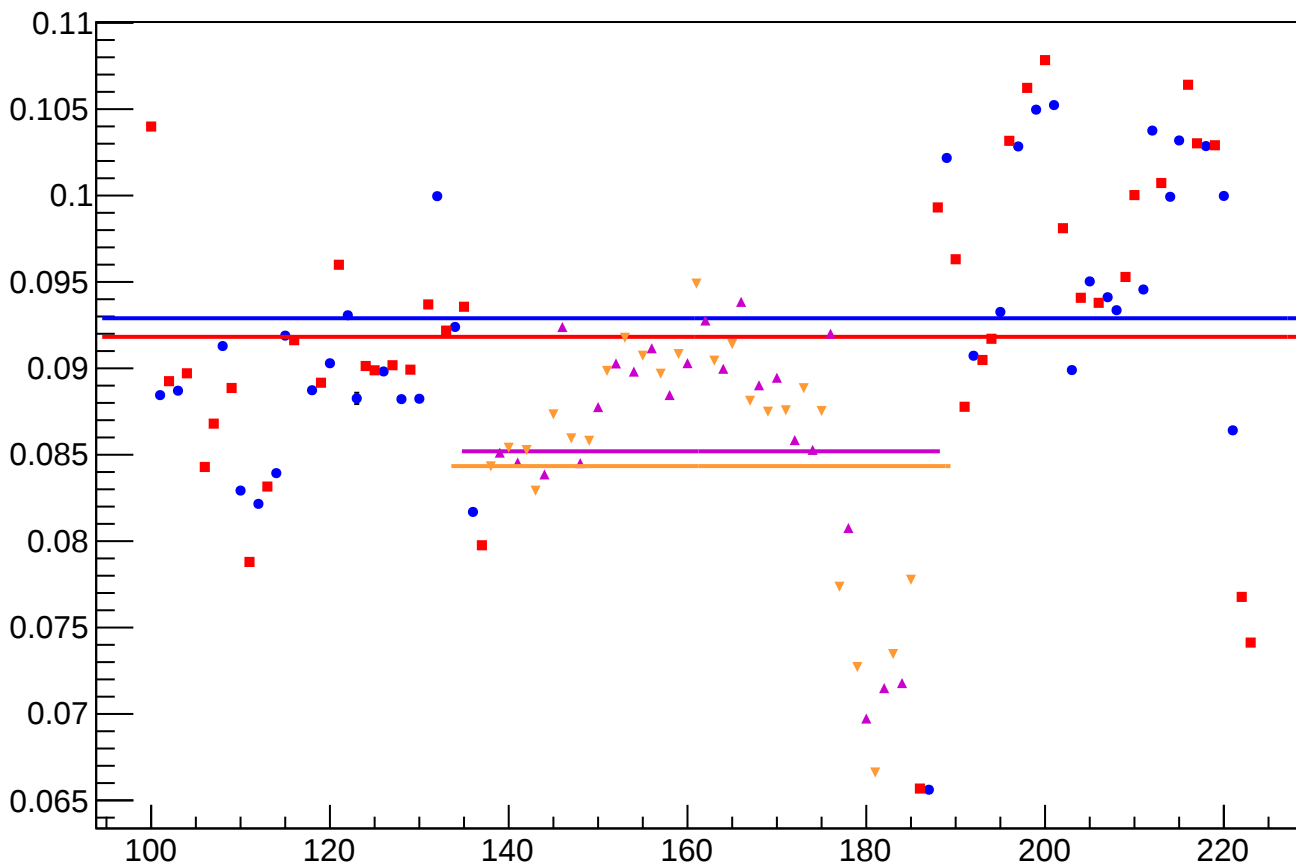
Right: -0.606 $\pm$ 0.000 χ^2/NDF : 3376248351.1/73

In: -0.778 $\pm$ 0.000 χ^2/NDF : 2716664964.7/57

Out: -0.663 $\pm$ 0.000 χ^2/NDF : 2768508824.7/63

All: -0.718 $\pm$ 0.000 χ^2/NDF : 5516954116.9/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 270966.1/34

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 466436.6/38

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

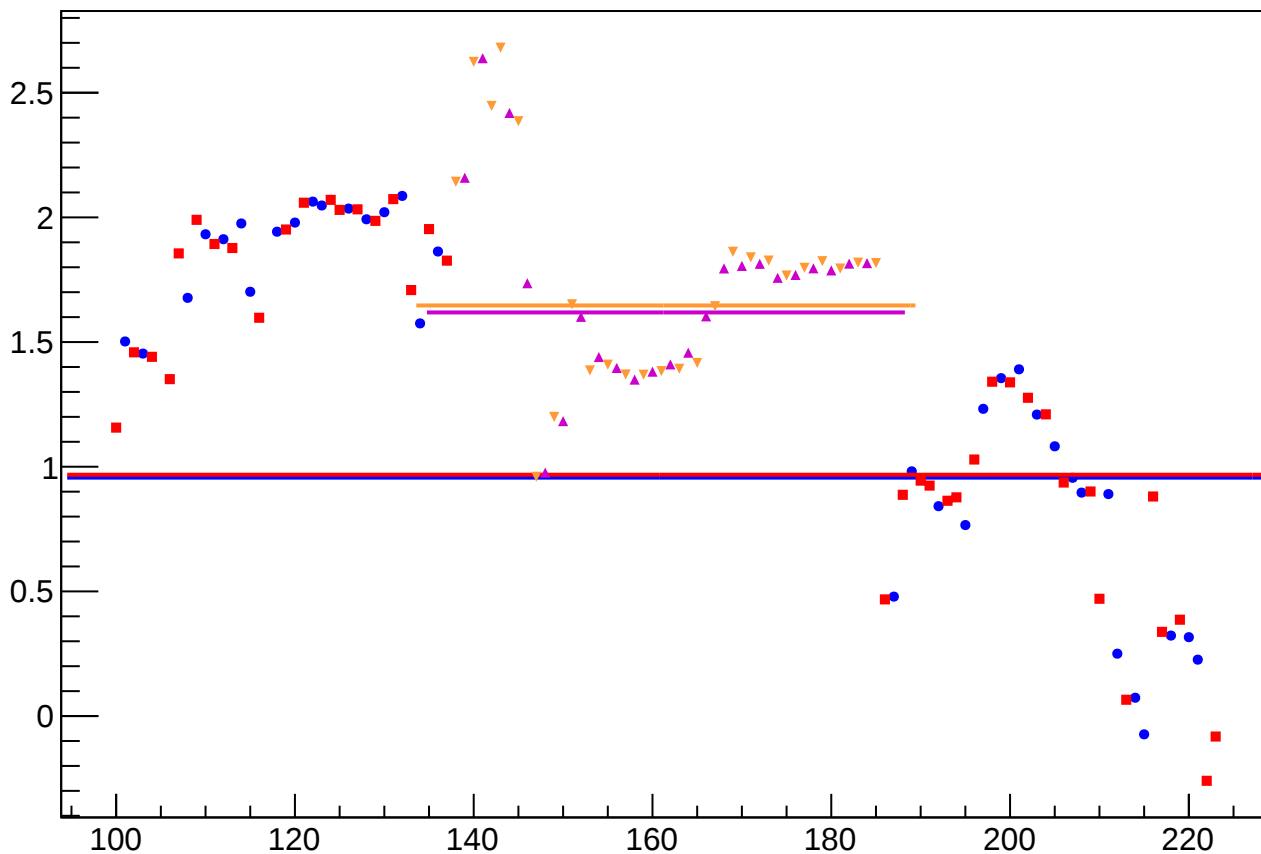
Right: 0.092 $\pm$ 0.000 χ^2 /NDF: 740120.2/73

In: 0.089 $\pm$ 0.000 χ^2 /NDF:646877.7/57

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:893865.3/63

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1545607.0/121

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.956 $\pm$ 0.000 χ^2 /NDF: 47965759556.7/34

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 0.968 $\pm$ 0.000 χ^2 /NDF: 43418549232.0/38

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2 /NDF: 47231460201.8/47

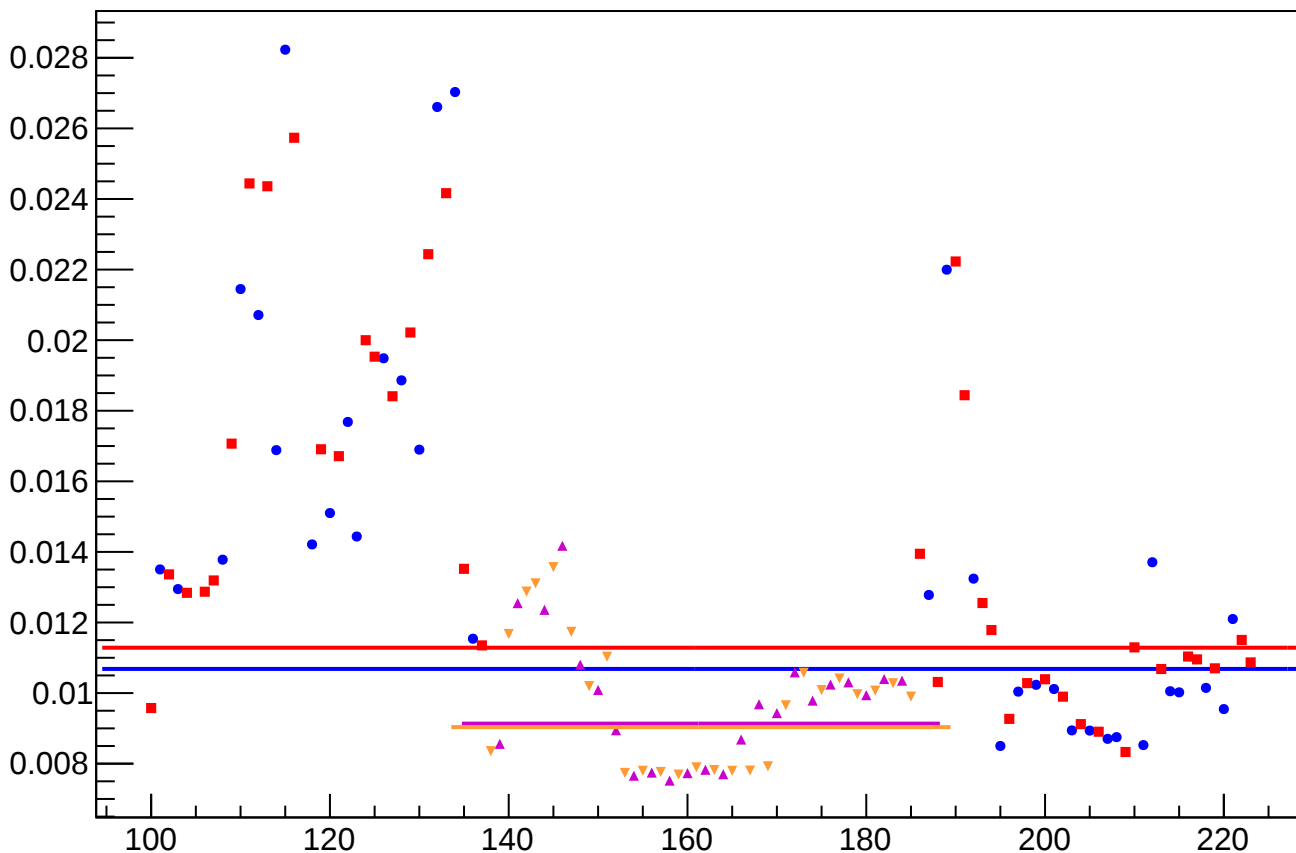
Right: 0.962 $\pm$ 0.000 χ^2 /NDF: 91394171430.7/73

In: 1.324 $\pm$ 0.000 χ^2 /NDF: 105997506286.9/57

Out: 1.373 $\pm$ 0.000 χ^2 /NDF: 108572350870.1/63

All: 1.349 $\pm$ 0.000 χ^2 /NDF: 214996488551.1

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2475795.0/34

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2538661.7/38

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

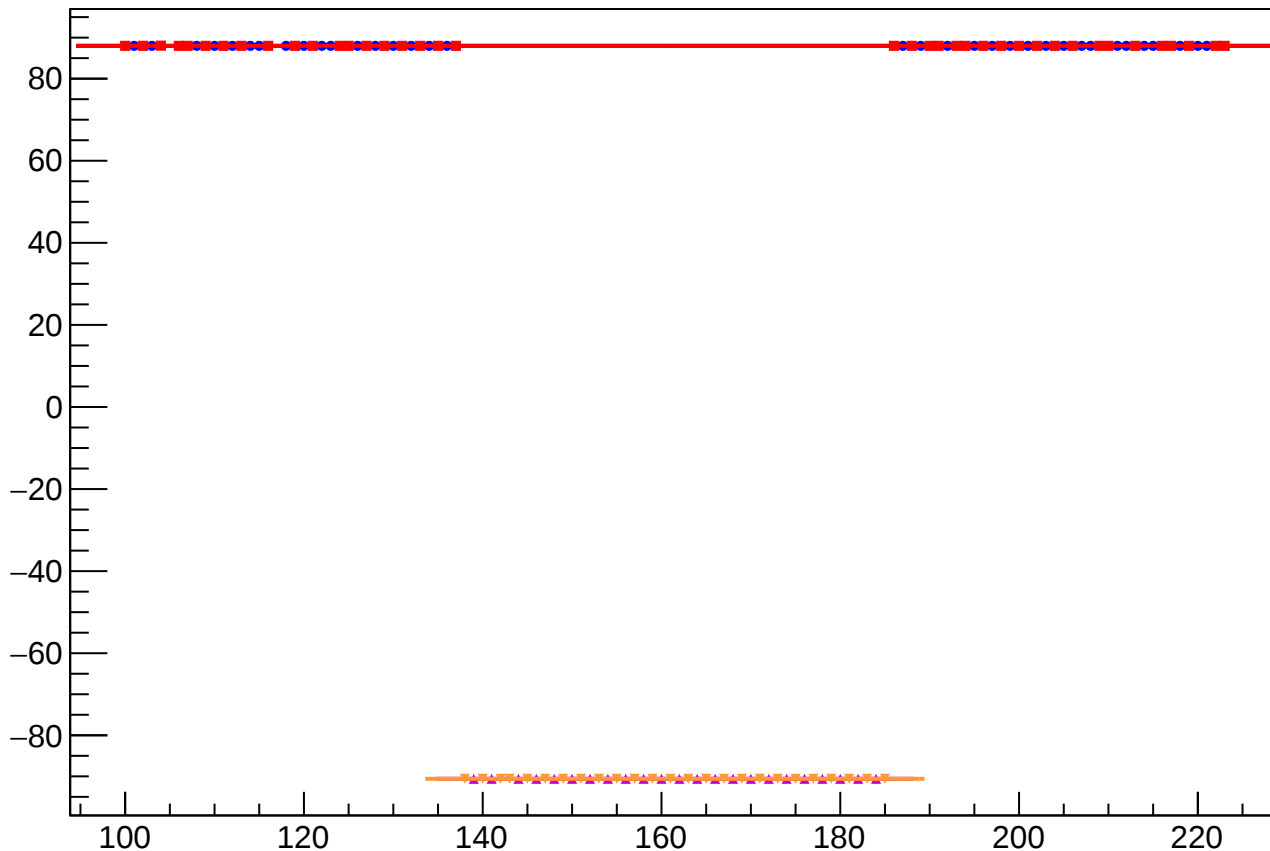
Right: 0.011+/-0.000 χ^2/NDF : 5067498.5/73

In: 0.010+/-0.000 χ^2/NDF :3763575.2/57

Out: 0.010+/-0.000 χ^2/NDF :4430129.4/63

All: 0.010+/-0.000 χ^2/NDF : 8198440.7/121

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3766943.4/34

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81429719228867483640803622912.0/38

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

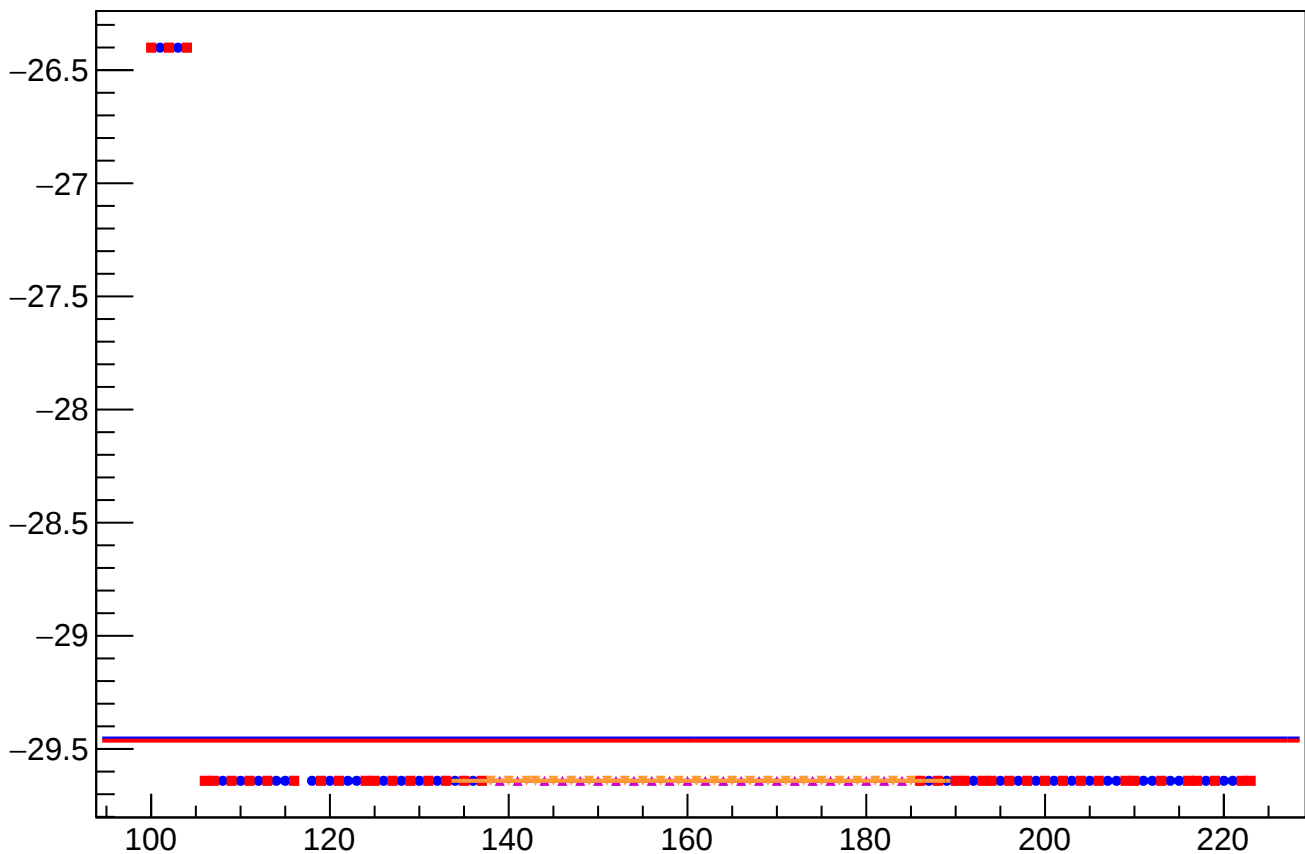
Right: 88.001+/-0.000 χ^2/NDF : 8241763976828274

In: 4.511+/-0.000 χ^2/NDF : 3050826501388859654

Out: 3.408+/-0.000 χ^2/NDF : 319846366133094608

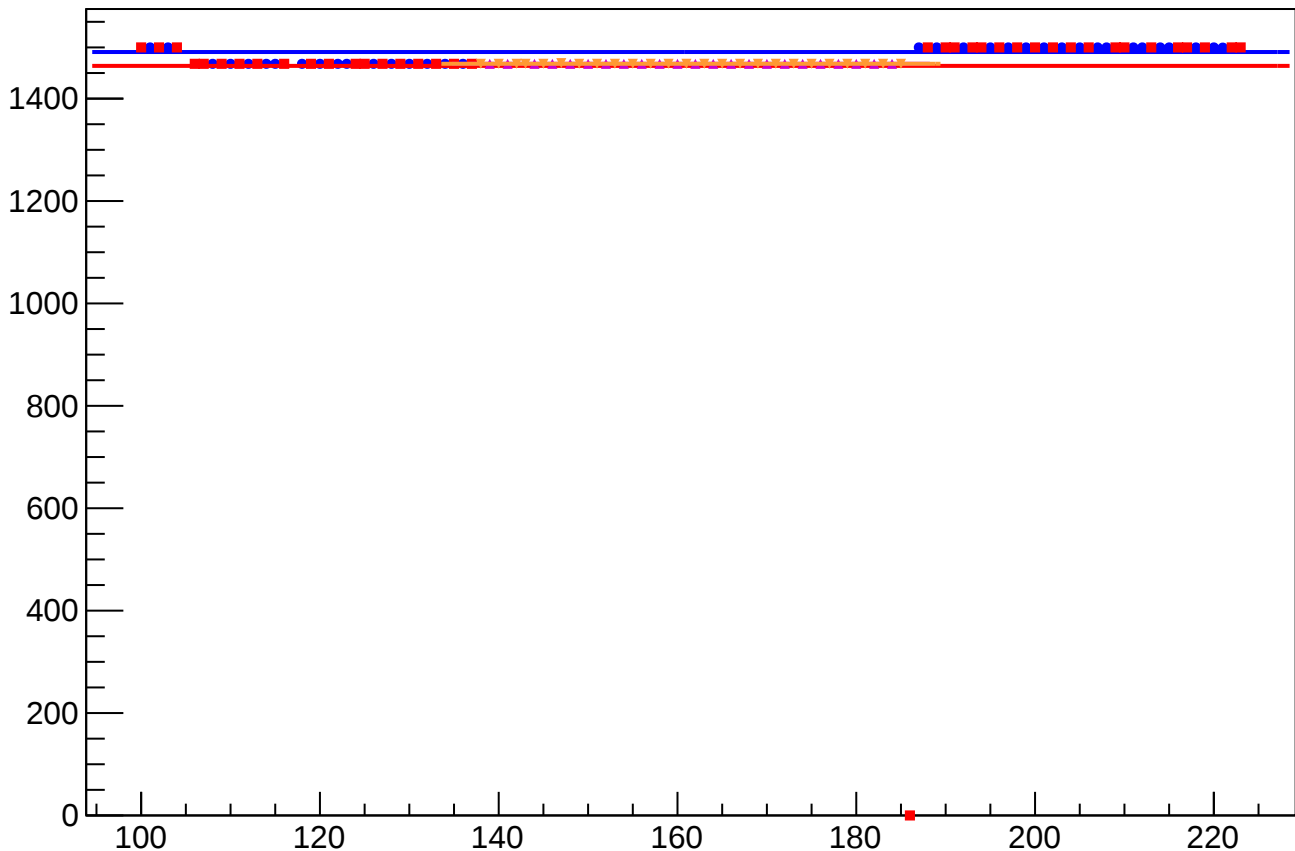
All: 3.947+/-0.000 χ^2/NDF : 62495293316830

epics_HWienAngles_mean vs Slug, Sign Corrected



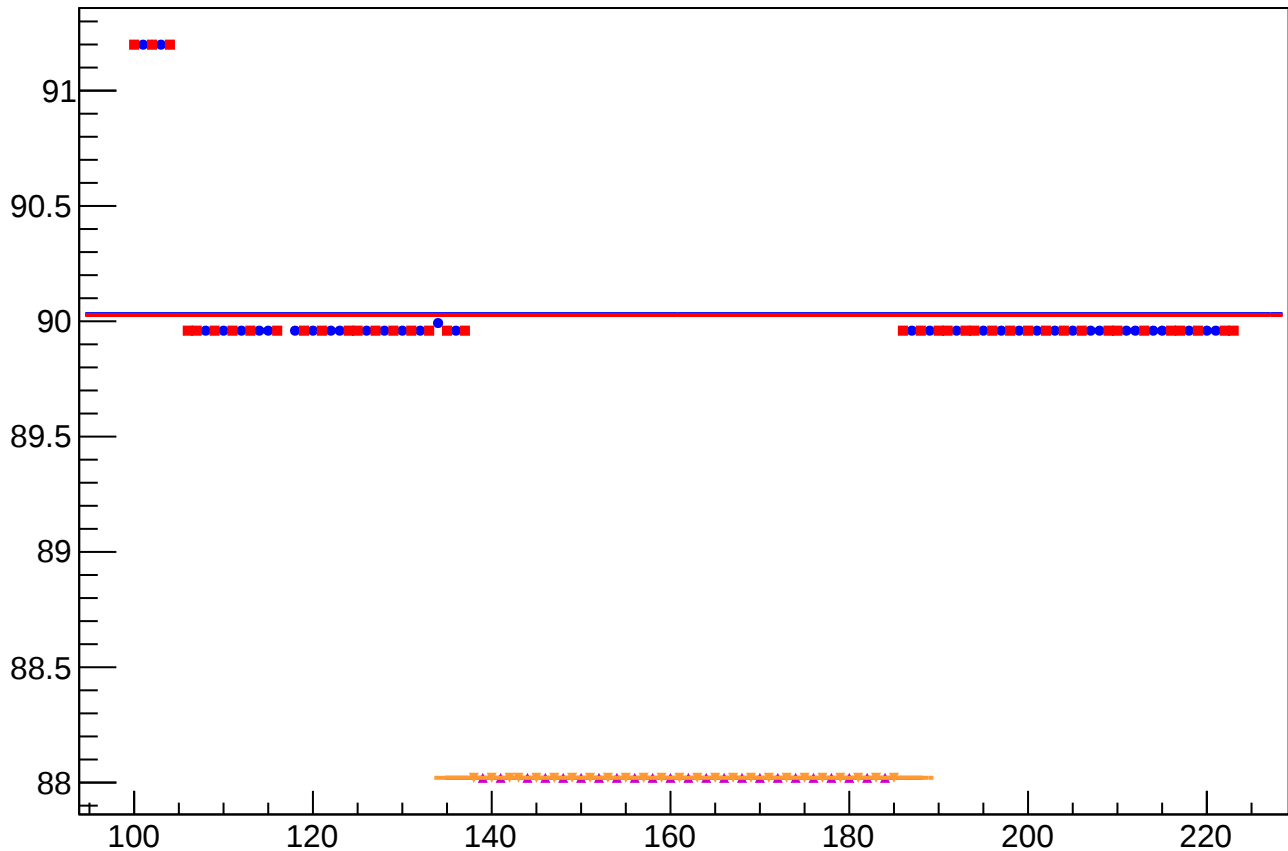
Right In: -29.454+/-0.000 χ^2/NDF : 1167275655131954018742255384264704.0/34
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.463+/-0.000 χ^2/NDF : 1150997128767105425245101990346752.0/38
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.541+/-0.000 χ^2/NDF : 12006718800624508
 Out: -29.547+/-0.000 χ^2/NDF : 1182600837792114
 All: -29.544+/-0.000 χ^2/NDF : 238334498880

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1491.015+/-0.000 χ^2/NDF : 422358694662828420343357245824696320.0/34
Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
Right Out: 1463.940+/-0.000 χ^2/NDF : 83365421763636980438416646284798590976.0/38
Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
All: 1472.905+/-0.000 χ^2/NDF : 84717368123

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.031+/-0.000

χ^2/NDF : 170896137285271109674787202400256.0/34

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.029+/-0.000

χ^2/NDF : 3395003985518735

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.027+/-0.000

χ^2/NDF : 168588361643882862835514487078912.0/38

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

In: 89.091+/-0.000

χ^2/NDF : 403670466716849620

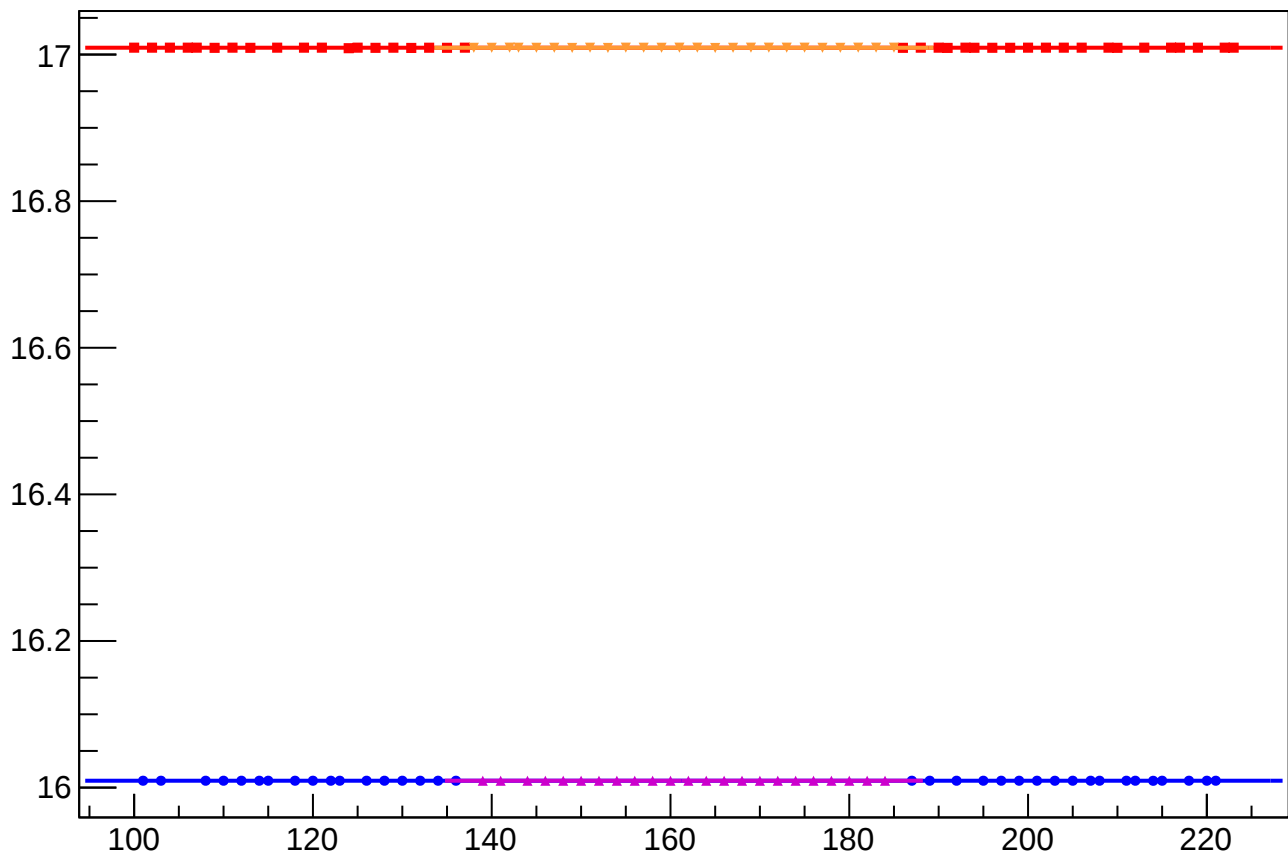
Out: 89.077+/-0.000

χ^2/NDF : 42056833043901188

All: 89.084+/-0.000

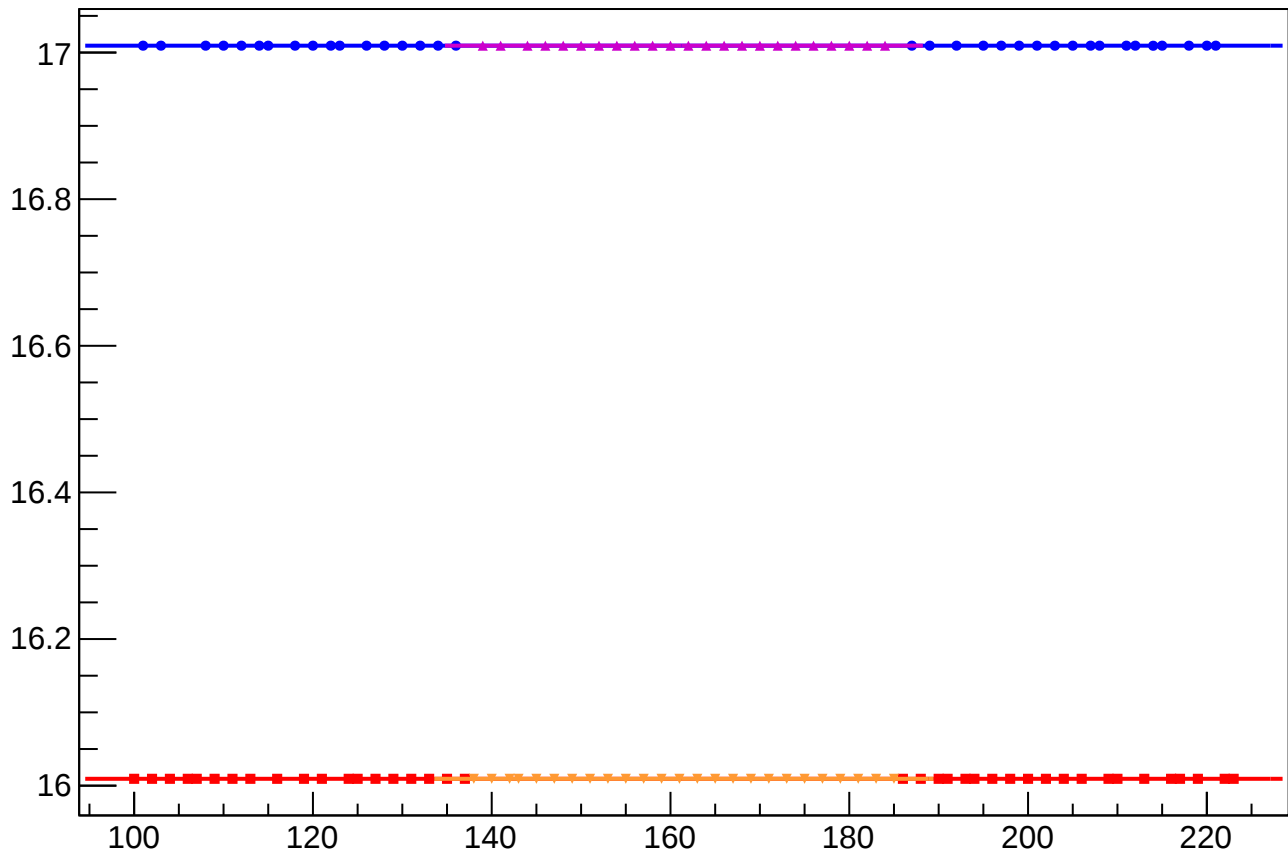
χ^2/NDF : 8242800101765

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



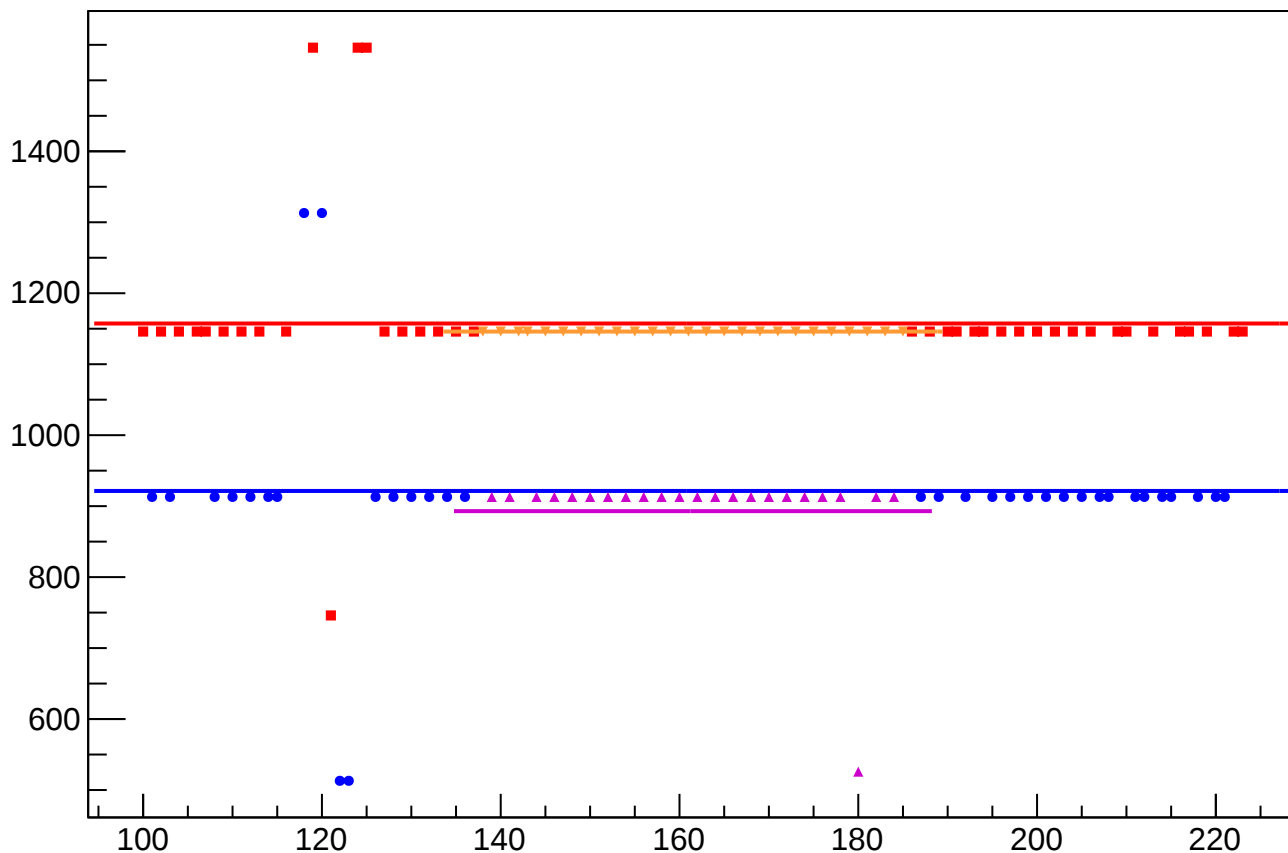
Right In: 16.009+/-0.000	χ^2/NDF : 853828976050134761603072.0/34	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.514+/-0.000	χ^2/NDF : 1015807443322175
Right Out: 17.009+/-0.000	χ^2/NDF : 22072713134115139878912000.0/38	In: 16.009+/-0.000	χ^2/NDF : 993295038202328589
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 50500835651414841
		All: 16.519+/-0.000	χ^2/NDF : 1874566867232

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



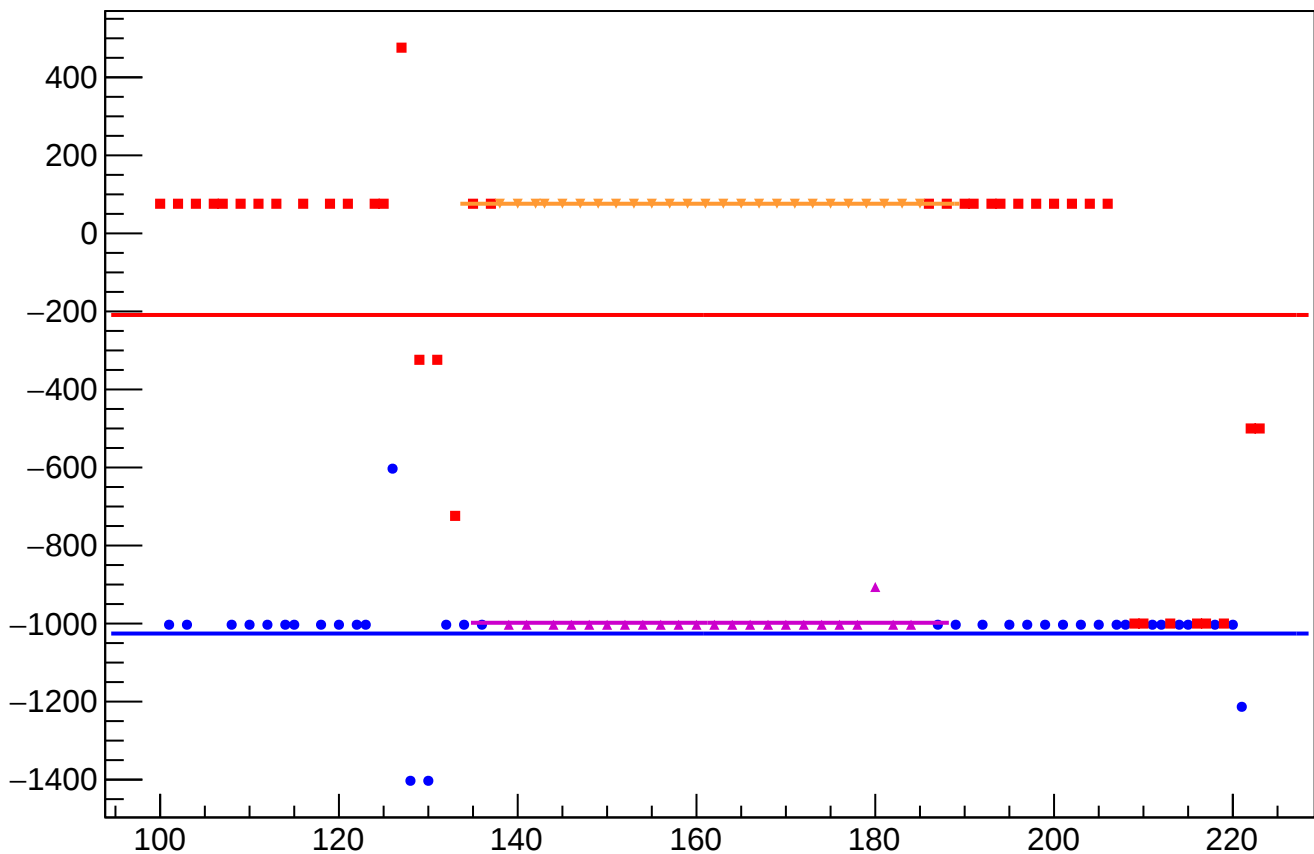
Right In: 17.009+/-0.000	χ^2/NDF : 853828976197346644721664.0/34	Left: 16.491+/-0.000	χ^2/NDF : 90683349233974458
Left Out: 16.009+/-0.000	χ^2/NDF : 61253.5/24	Right: 16.498+/-0.000	χ^2/NDF : 1030430127884655
Right Out: 16.009+/-0.000	χ^2/NDF : 329150.6/38	In: 17.009+/-0.000	χ^2/NDF : 981266632367565128
Left In: 17.009+/-0.000	χ^2/NDF : 114986101427233622065152.0/22	Out: 16.009+/-0.000	χ^2/NDF : 590219.4/63
		All: 16.495+/-0.000	χ^2/NDF : 1937339190426

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



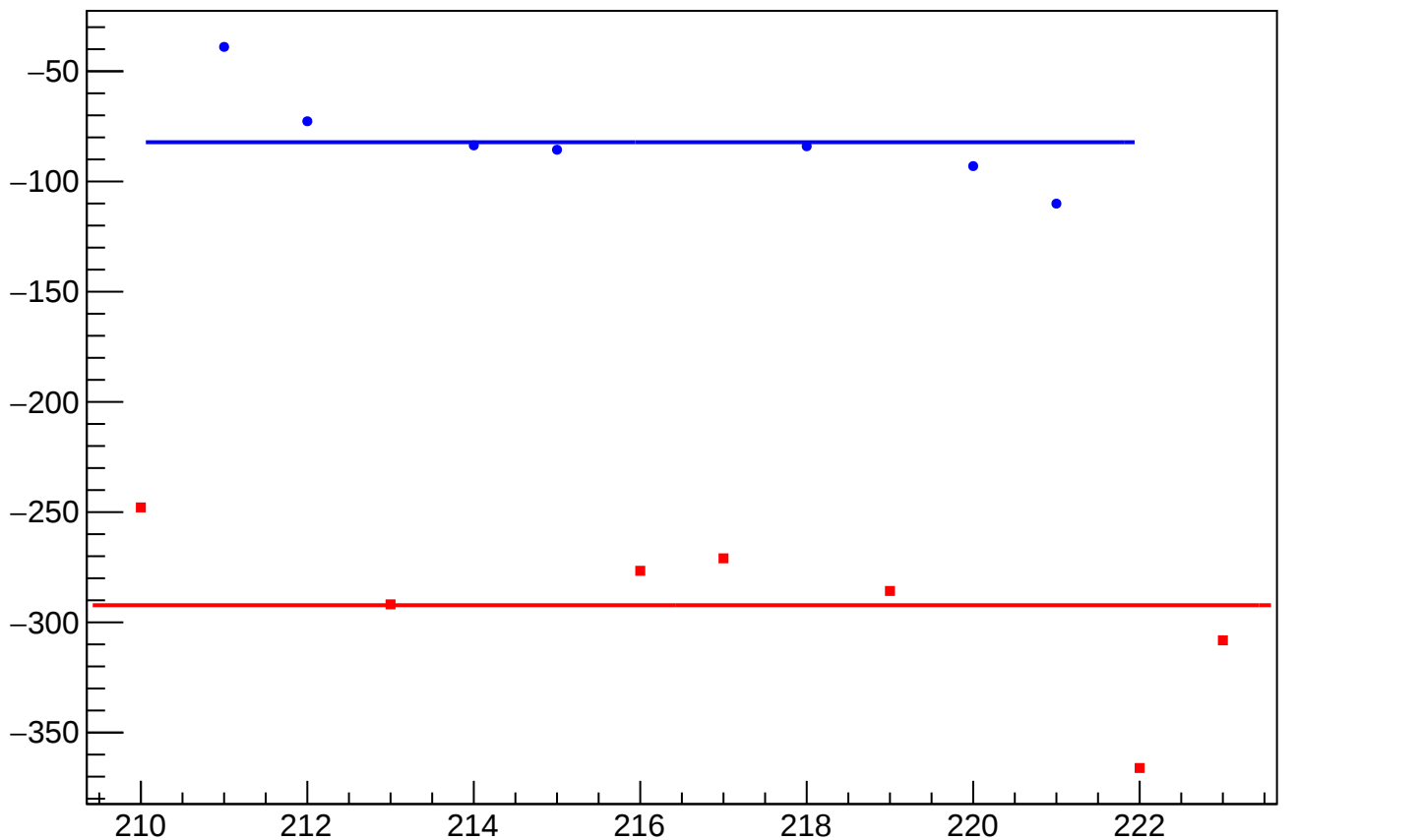
Right In: 921.401+/-0.000 χ^2/NDF : 21136762272112001078271387978401054720.0/34
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1157.347+/-0.000 χ^2/NDF : 21808636088156755546091033724020850688.0/38
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1032.831+/-0.000 χ^2/NDF : 17393003156

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



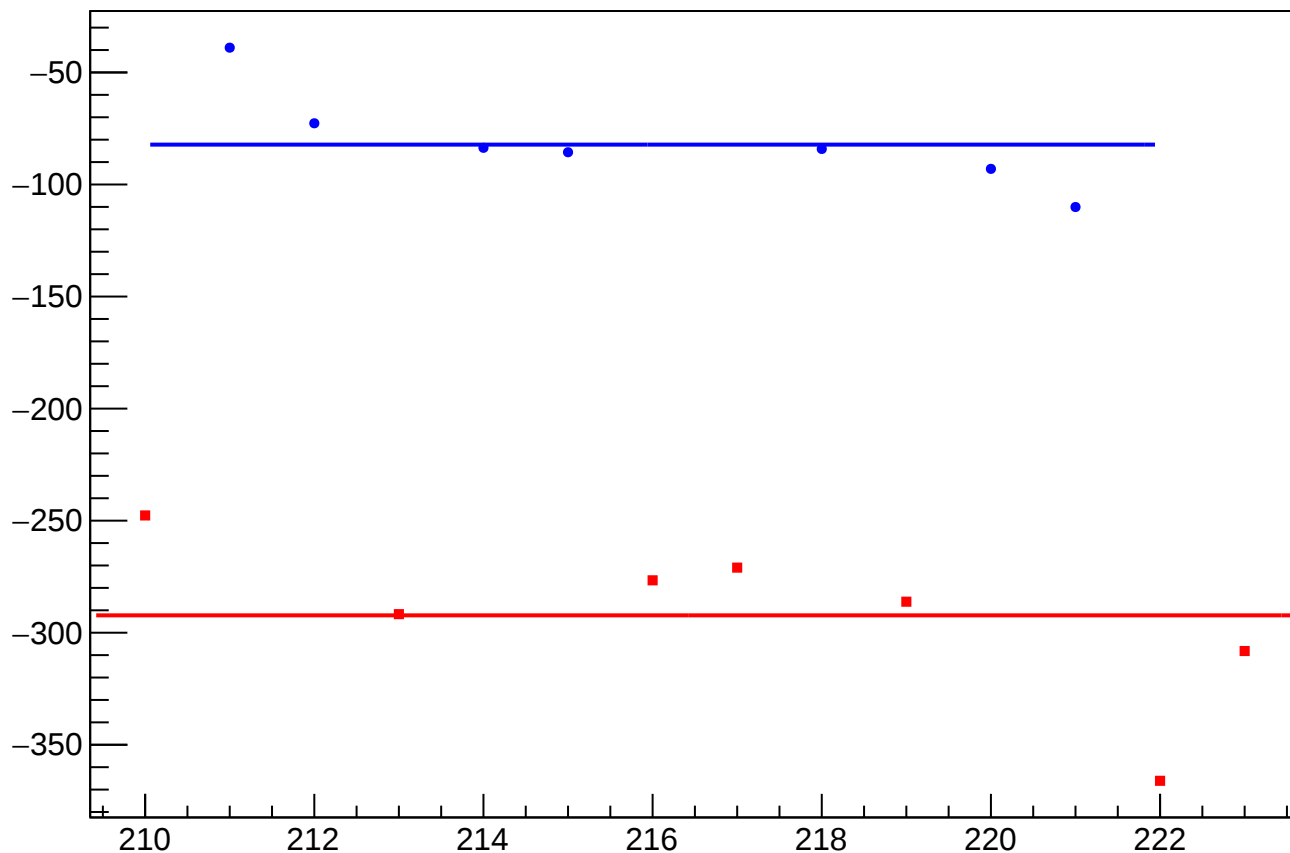
Left: -445.169+/-0.000 χ^2/NDF : 106713327806479
 Right In: -1025.567+/-0.000 χ^2/NDF : 26405340688497875997851141232916430848.0/34
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right: -610.363+/-0.000 χ^2/NDF : 11587726722927
 In: -1012.671+/-0.000 χ^2/NDF : 279591728960407
 Right Out: -209.083+/-0.000 χ^2/NDF : 438756249955390668962961241010035752960.0/38
 Out: -74.050+/-0.000 χ^2/NDF : 5202546796798812
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -532.618+/-0.000 χ^2/NDF : 22793710342

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Right In: -82.188 $\pm$ 0.000 χ^2 /NDF: 235710829784465278673197619279298560.0/6
 Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Right: -180.913 $\pm$ 0.000 χ^2 /NDF: 12434544276943
 Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -82.188 $\pm$ 0.000 χ^2 /NDF: 23571082978446527
 Right Out: -292.229 $\pm$ 0.000 χ^2 /NDF: 648684653942764988519316025038077952.0/6
 Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 All: -180.913 $\pm$ 0.000 χ^2 /NDF: 12434544276

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: -82.204+/-0.000 χ^2/NDF : 235745401909722647259150319714566144.0/6
 Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: -180.930+/-0.000 χ^2/NDF : 12435635031977
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -82.204+/-0.000 χ^2/NDF : 23574540190972264
 Right Out: -292.247+/-0.000 χ^2/NDF : 649517585204416517639518489250103296.0/6
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -180.930+/-0.000 χ^2/NDF : 12435635031