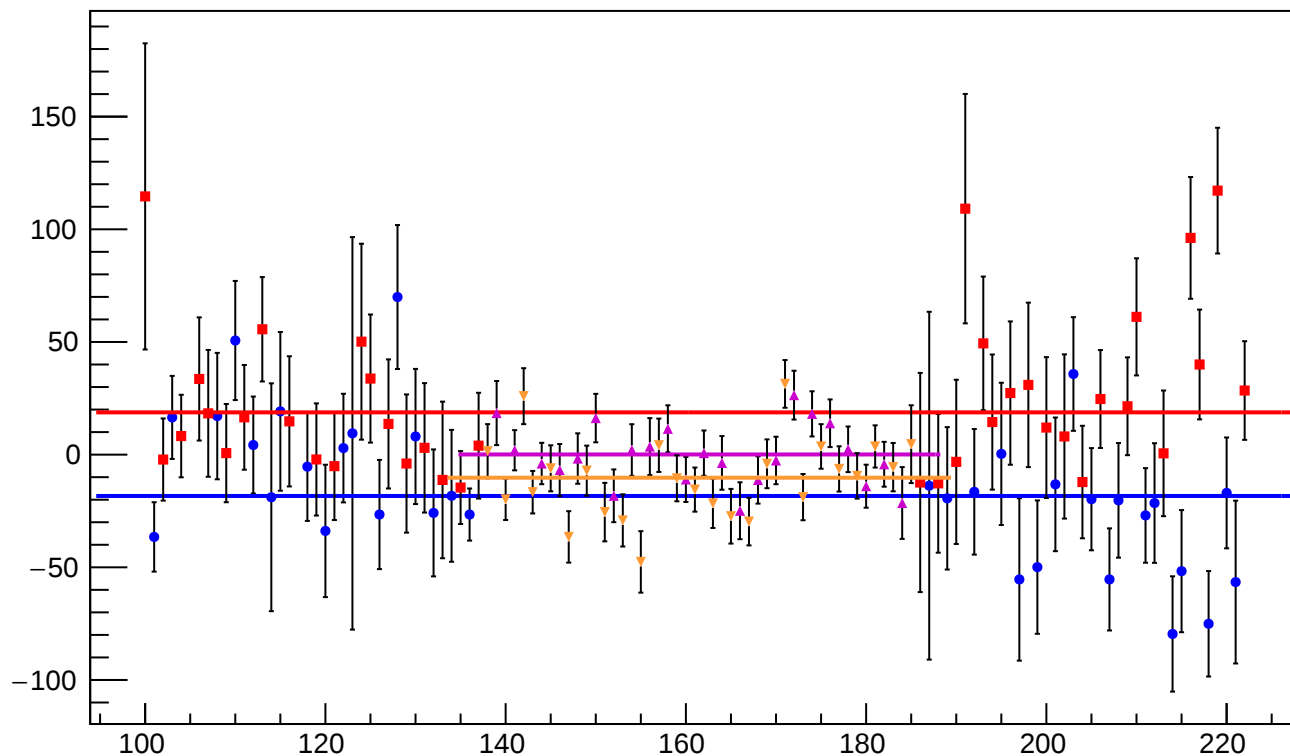


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -18.339 ± 4.225

$\chi^2/\text{NDF}: 50.5/34$

Left Out: -10.238 ± 2.170

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

Right Out: 18.760 ± 4.290

$\chi^2/\text{NDF}: 48.7/37$

Left In: 0.080 ± 2.251

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

Left: -5.266 ± 1.562

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

Right: -0.070 ± 3.010

$\chi^2/\text{NDF}: 137.1/72$

In: -3.990 ± 1.986

$\chi^2/\text{NDF}: 95.1/57$

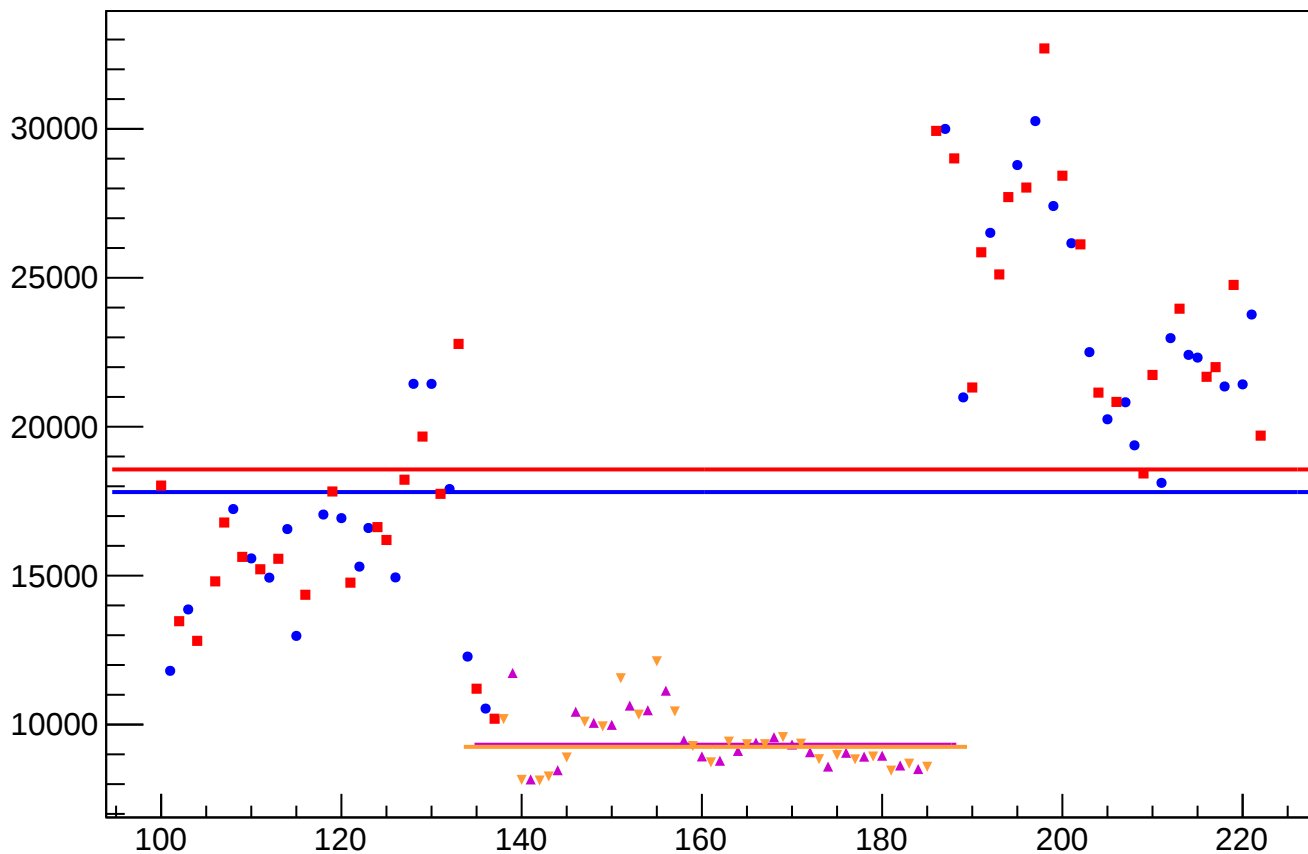
Out: -4.329 ± 1.937

$\chi^2/\text{NDF}: 143.2/62$

All: -4.164 ± 1.387

$\chi^2/\text{NDF}: 238.3/120$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17805.957 $\pm$ 2.988 χ^2/NDF : 3046803.2/34

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

Right Out: 18565.750 $\pm$ 3.033 χ^2/NDF : 3082136.9/37

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

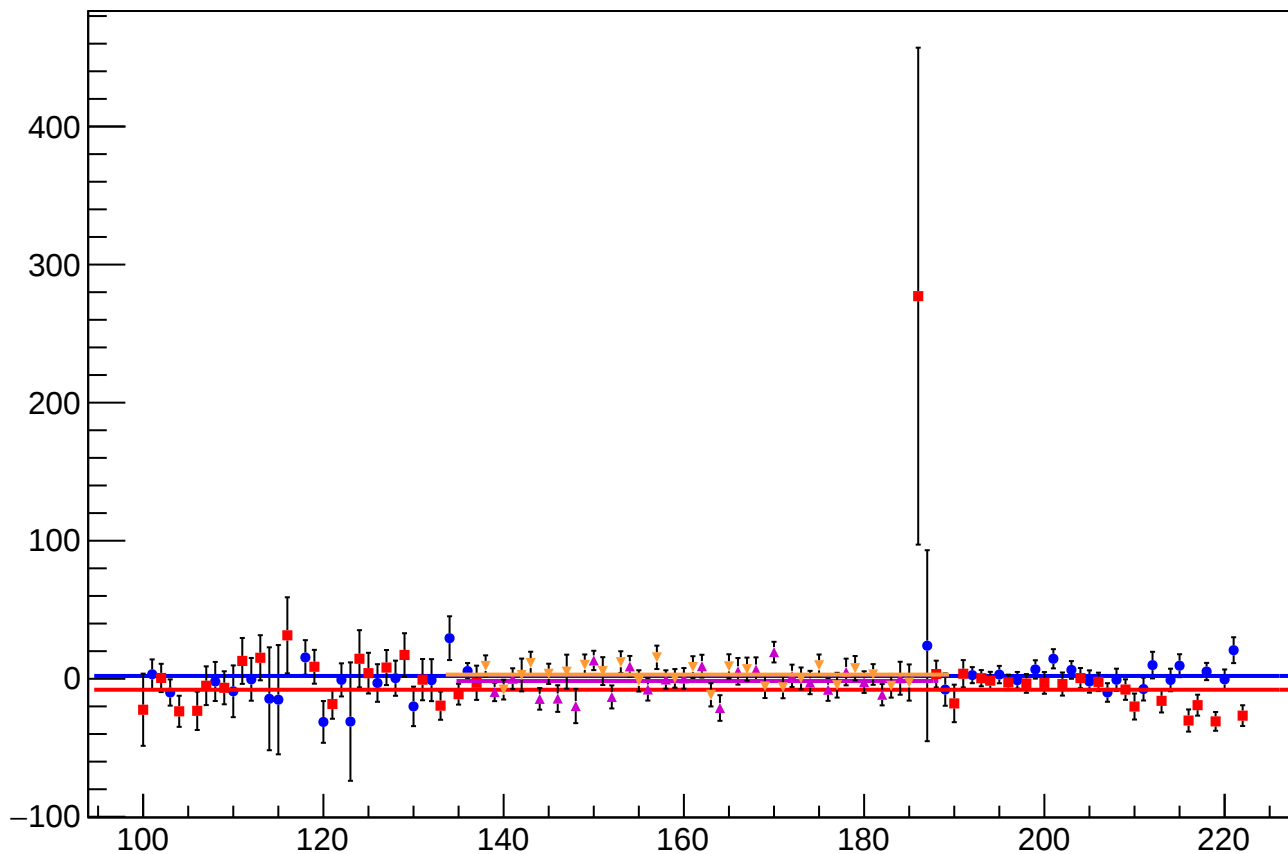
Right: 18180.109 $\pm$ 2.129 χ^2/NDF : 6160784.5/72

In: 11198.426 $\pm$ 1.405 χ^2/NDF : 9600581.2/57

Out: 11149.838 $\pm$ 1.369 χ^2/NDF : 10921208.3/62

All: 11173.515 $\pm$ 0.980 χ^2/NDF : 20522403.1

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.049 $\pm$ 1.529 χ^2/NDF : 31.1/34

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

Right Out: -7.927 $\pm$ 1.514 χ^2/NDF : 63.4/37

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

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

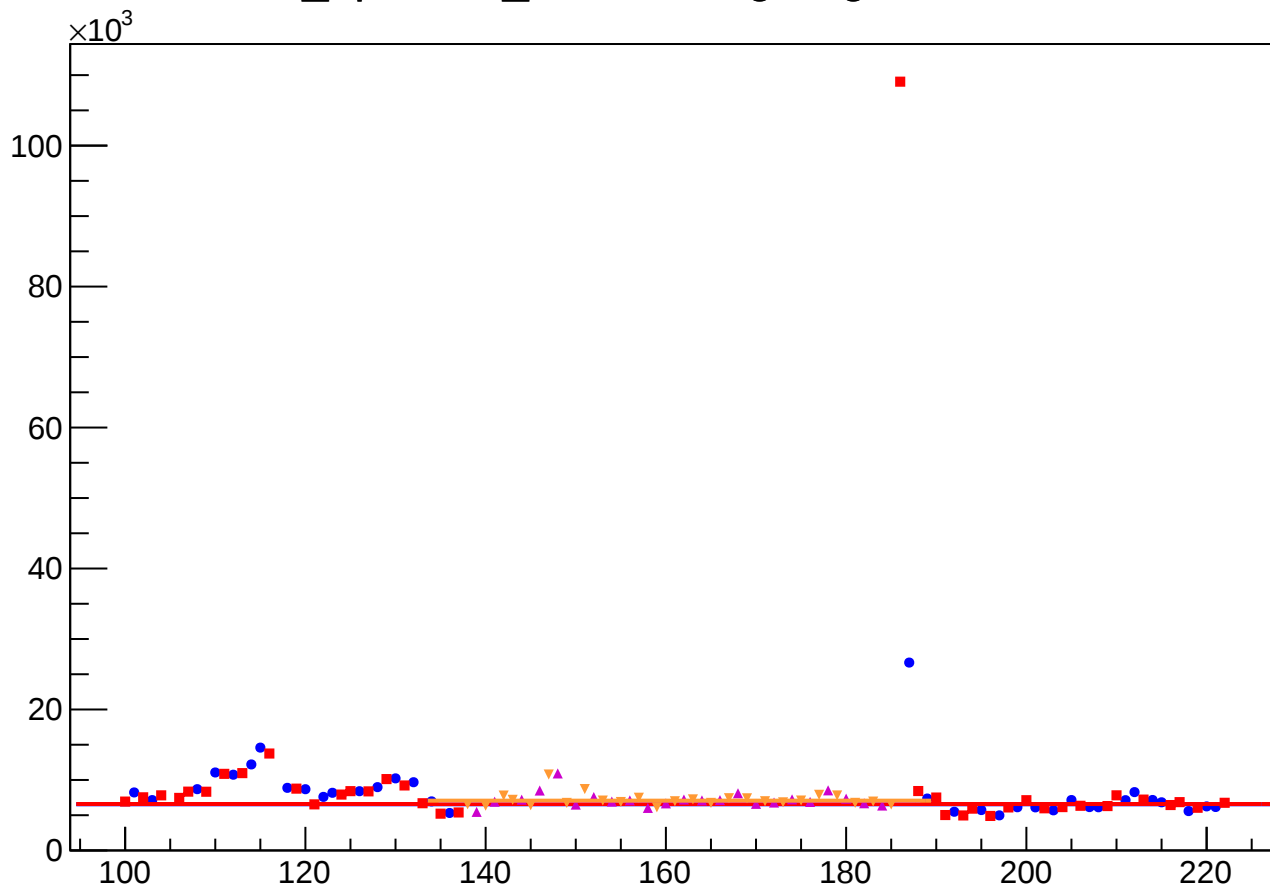
Right: -2.989 $\pm$ 1.076 χ^2/NDF : 116.0/72

In: 0.425 $\pm$ 1.138 χ^2/NDF : 69.1/57

Out: -2.955 $\pm$ 1.119 χ^2/NDF : 105.7/62

All: -1.294 $\pm$ 0.798 χ^2/NDF : 179.4/120

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6550.094 $\pm$ 1.081 χ^2/NDF : 1673309.5/34

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

Right Out: 6588.176 $\pm$ 1.071 χ^2/NDF : 2167822.1/37

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

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

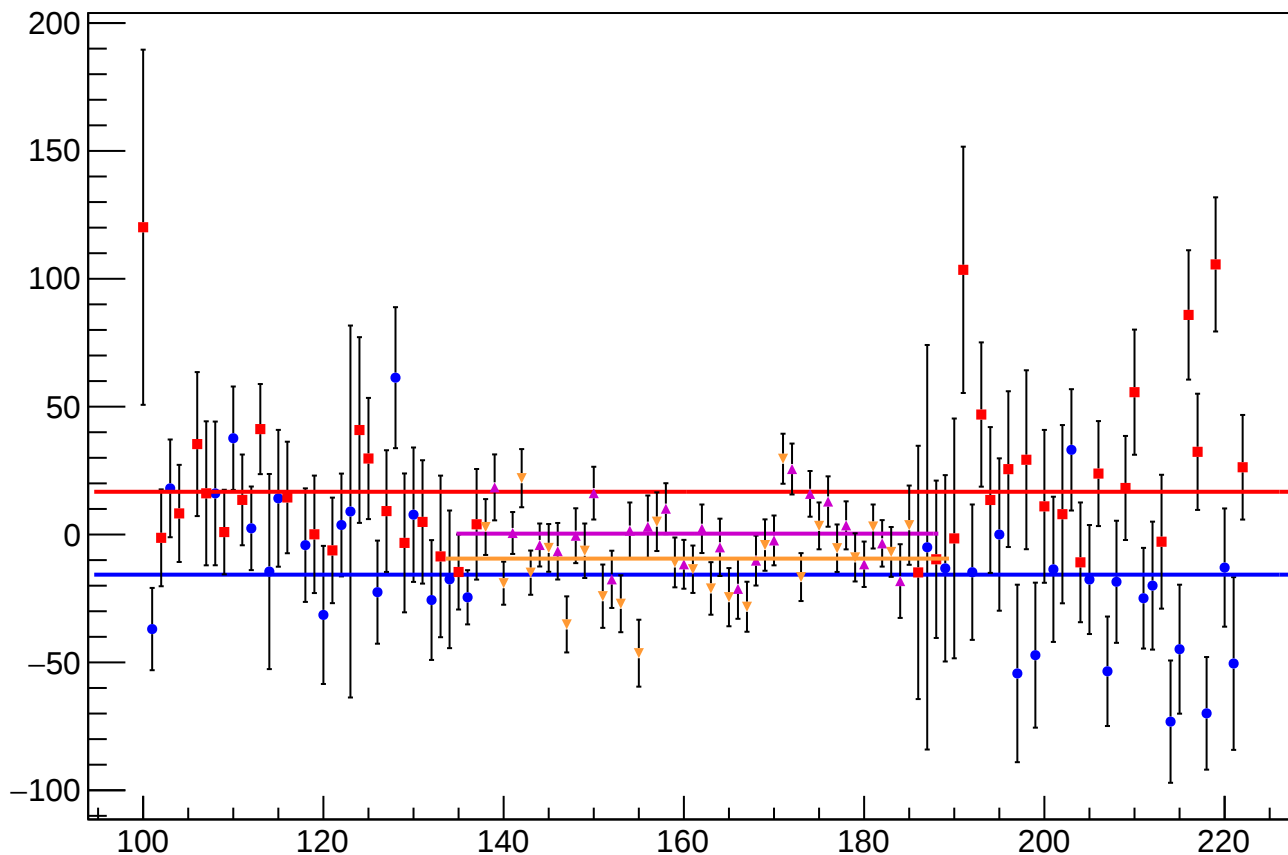
Right: 6569.327 $\pm$ 0.761 χ^2/NDF : 3841757.9/72

In: 6757.495 $\pm$ 0.804 χ^2/NDF : 2281006.8/57

Out: 6804.359 $\pm$ 0.791 χ^2/NDF : 2644485.6/62

All: 6781.321 $\pm$ 0.564 χ^2/NDF : 4927217.7/12

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.691 $\pm$ 3.876 χ^2/NDF : 51.5/34

Left Out: -9.411 $\pm$ 2.021 χ^2/NDF : 58.8/24

Right Out: 16.719 $\pm$ 3.904 χ^2/NDF : 45.9/37

Left In: 0.344 $\pm$ 2.100 χ^2/NDF : 29.9/22

Left: -4.722 $\pm$ 1.456 χ^2/NDF : 99.9/47

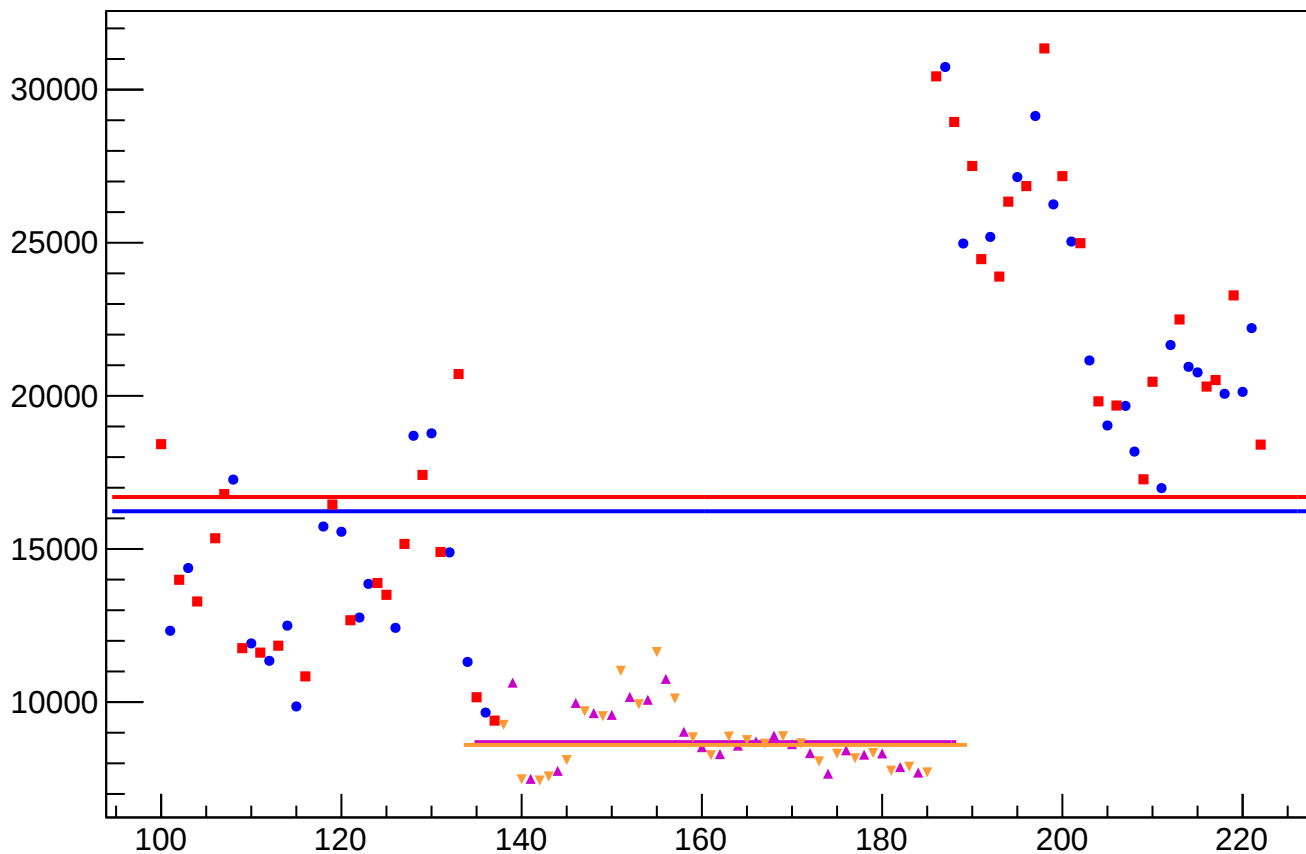
Right: 0.400 $\pm$ 2.751 χ^2/NDF : 132.1/72

In: -3.296 $\pm$ 1.847 χ^2/NDF : 94.6/57

Out: -3.888 $\pm$ 1.795 χ^2/NDF : 140.0/62

All: -3.600 $\pm$ 1.287 χ^2/NDF : 234.7/120

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16231.974 $\pm$ 2.741 χ^2 /NDF: 3560033.7/34

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

Right Out: 16696.272 $\pm$ 2.760 χ^2 /NDF: 3934560.3/37

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

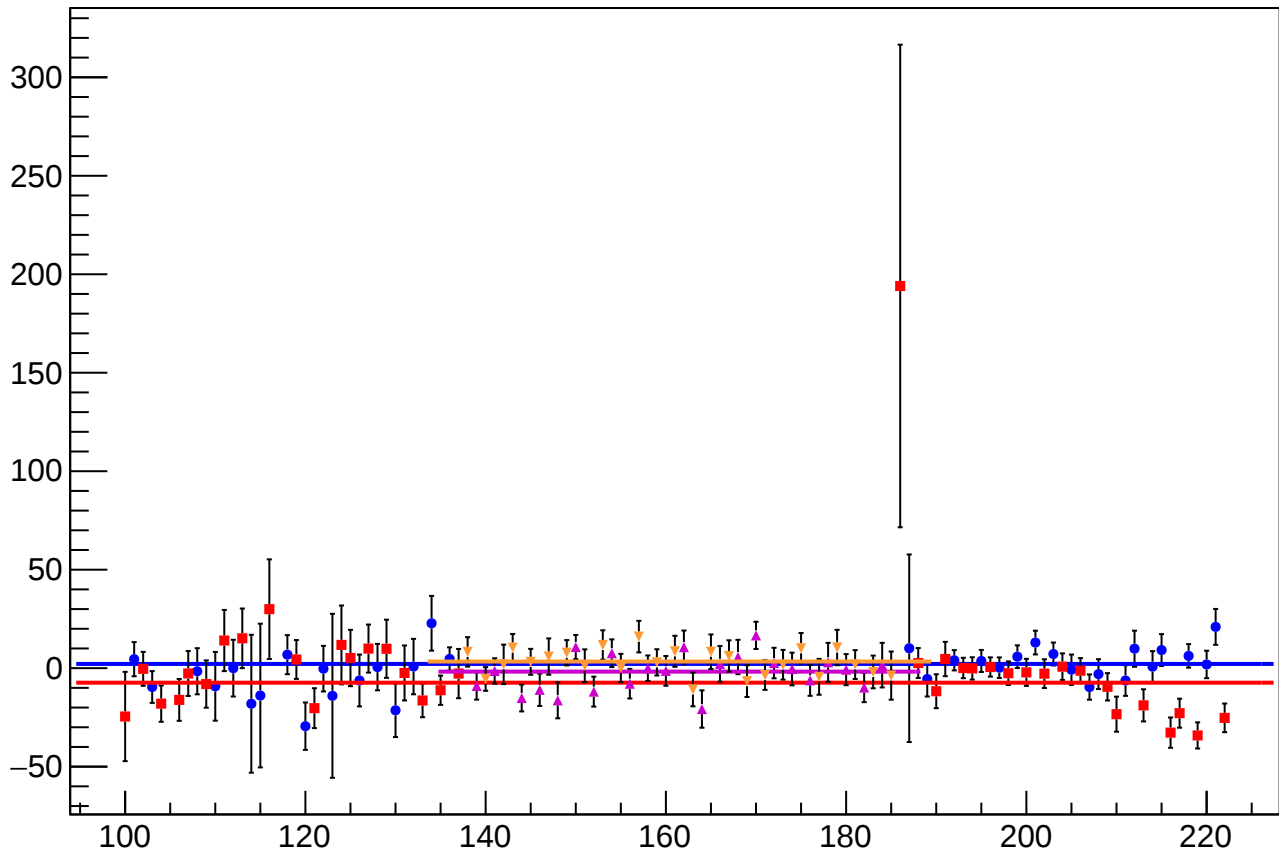
Right: 16462.483 $\pm$ 1.945 χ^2 /NDF: 7508840.5/72

In: 10402.935 $\pm$ 1.306 χ^2 /NDF: 9776394.5/57

Out: 10313.121 $\pm$ 1.269 χ^2 /NDF: 11154319.2/62

All: 10356.745 $\pm$ 0.910 χ^2 /NDF: 20933146.4

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.149 $\pm$ 1.395 χ^2/NDF : 33.3/34

Left Out: 3.374 $\pm$ 1.552 χ^2/NDF : 17.2/24

Right Out: -7.371 $\pm$ 1.364 χ^2/NDF : 79.4/37

Left In: -1.756 $\pm$ 1.607 χ^2/NDF : 33.5/22

Left: 0.899 $\pm$ 1.116 χ^2/NDF : 56.0/47

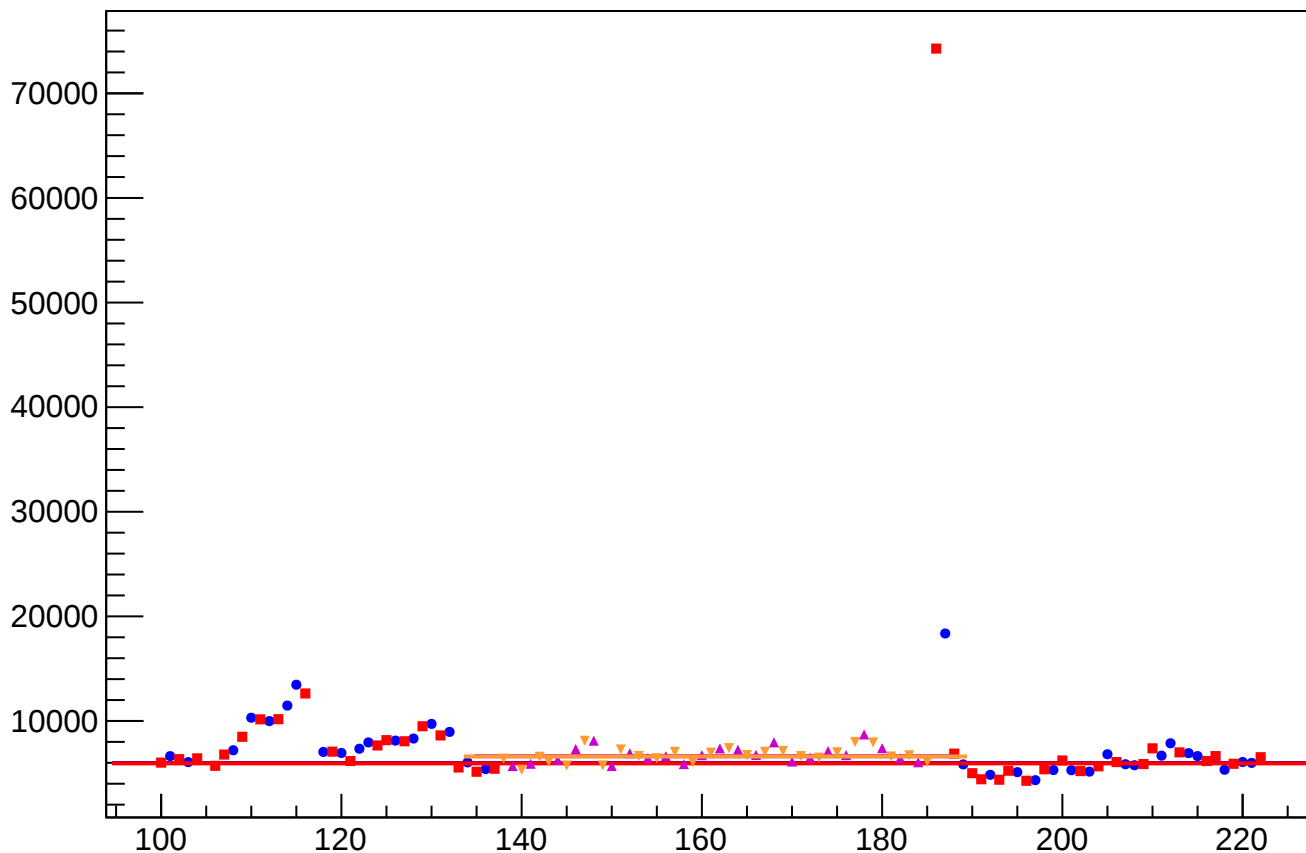
Right: -2.716 $\pm$ 0.975 χ^2/NDF : 136.5/72

In: 0.471 $\pm$ 1.053 χ^2/NDF : 70.2/57

Out: -2.686 $\pm$ 1.025 χ^2/NDF : 123.6/62

All: -1.151 $\pm$ 0.734 χ^2/NDF : 198.4/120

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5980.618+/-0.986

χ^2/NDF : 1669314.7/34

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right Out: 5946.874+/-0.965

χ^2/NDF : 2268109.8/37

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

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

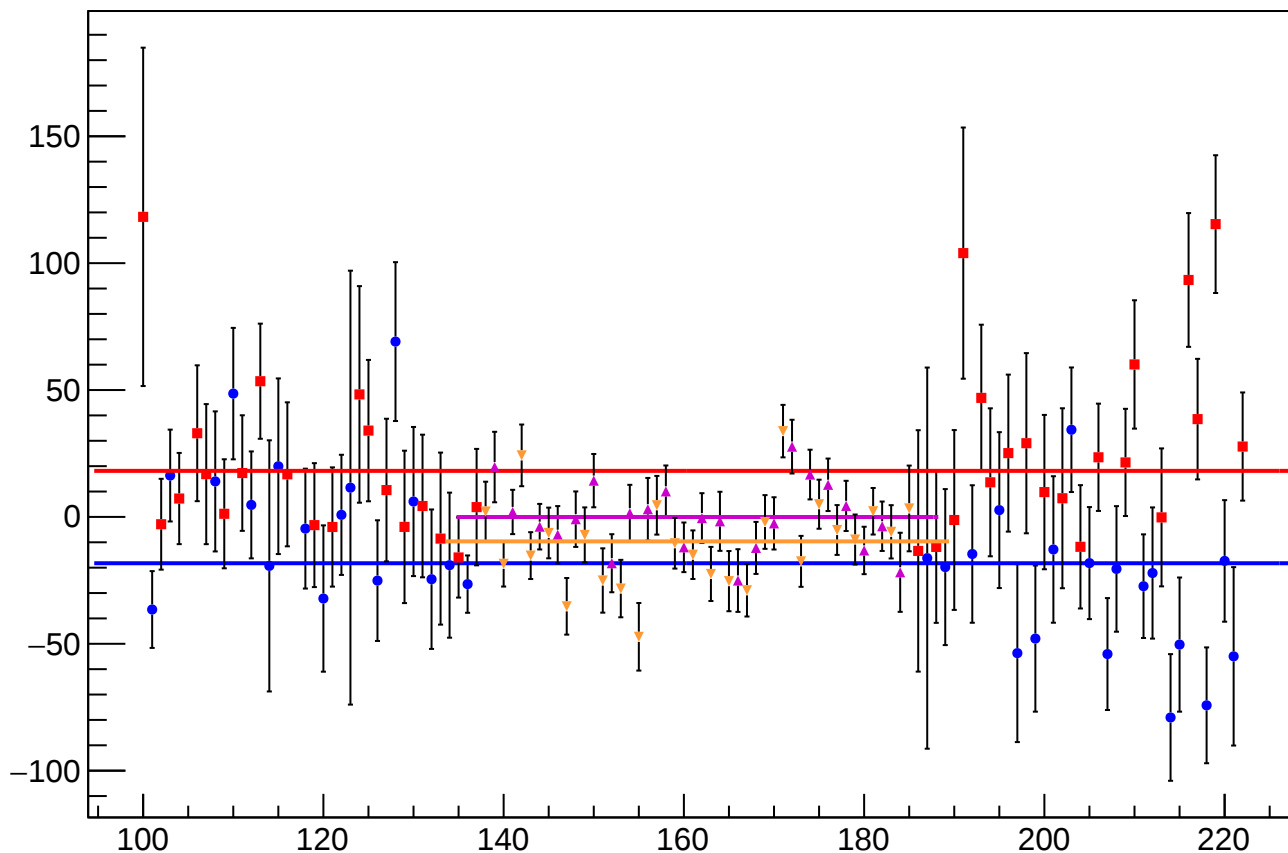
Right: 5963.372+/-0.690 χ^2/NDF : 3938022.7/72

In: 6262.736+/-0.745 χ^2/NDF : 2275240.2/57

Out: 6233.358+/-0.725 χ^2/NDF : 2865601.2/62

All: 6247.640+/-0.519 χ^2/NDF : 5141640.7/12

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -18.256 $\pm$ 4.129 χ^2/NDF : 50.6/34

Left Out: -9.640 $\pm$ 2.122 χ^2/NDF : 59.9/24

Right Out: 18.149 $\pm$ 4.193 χ^2/NDF : 49.2/37

Left In: -0.042 $\pm$ 2.200 χ^2/NDF : 30.8/22

Left: -5.015 $\pm$ 1.527 χ^2/NDF : 100.5/47

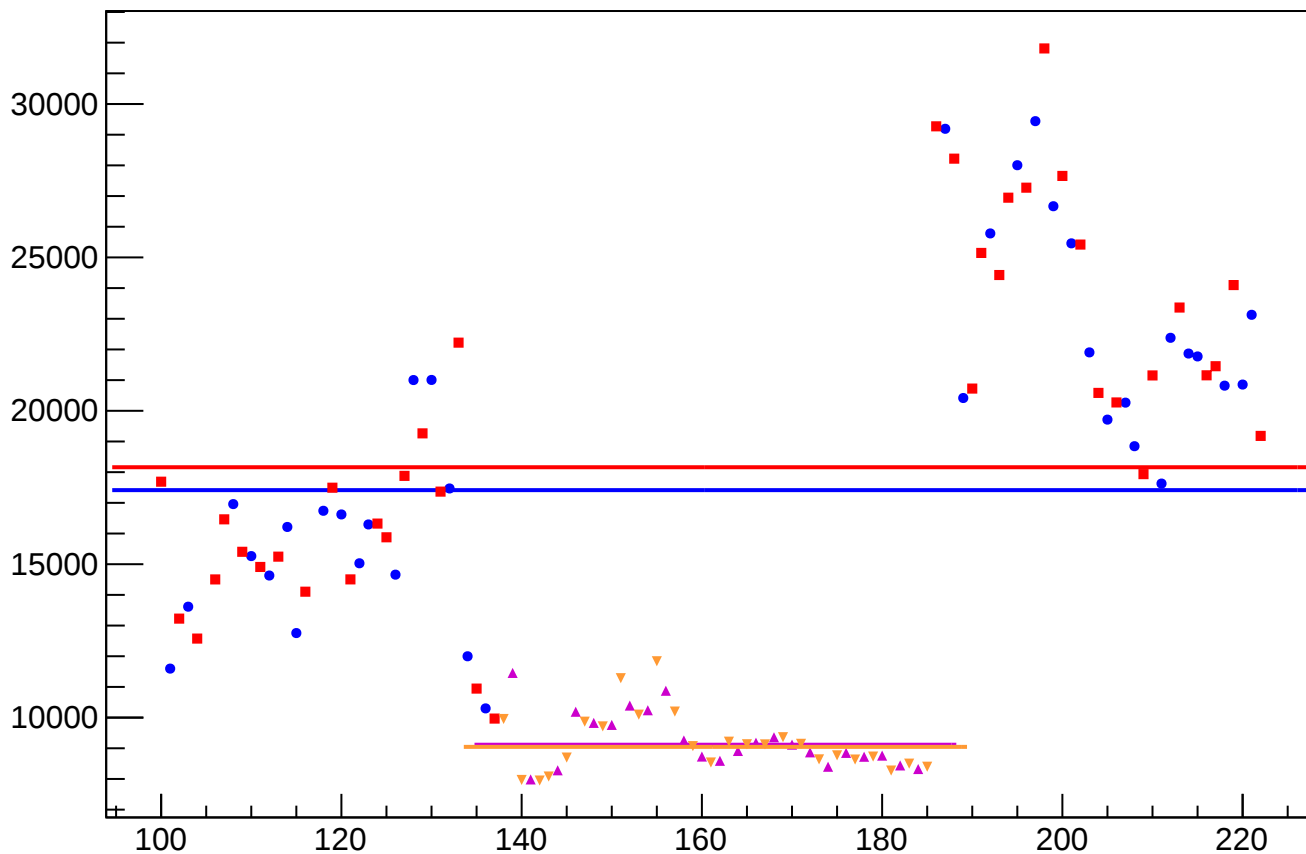
Right: -0.331 $\pm$ 2.942 χ^2/NDF : 138.0/72

In: -4.069 $\pm$ 1.942 χ^2/NDF : 96.5/57

Out: -3.975 $\pm$ 1.893 χ^2/NDF : 144.0/62

All: -4.021 $\pm$ 1.356 χ^2/NDF : 240.5/120

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17414.333+/-2.920 χ^2/NDF : 2994986.2/34

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

Right Out: 18160.691+/-2.965 χ^2/NDF : 3024557.3/37

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

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

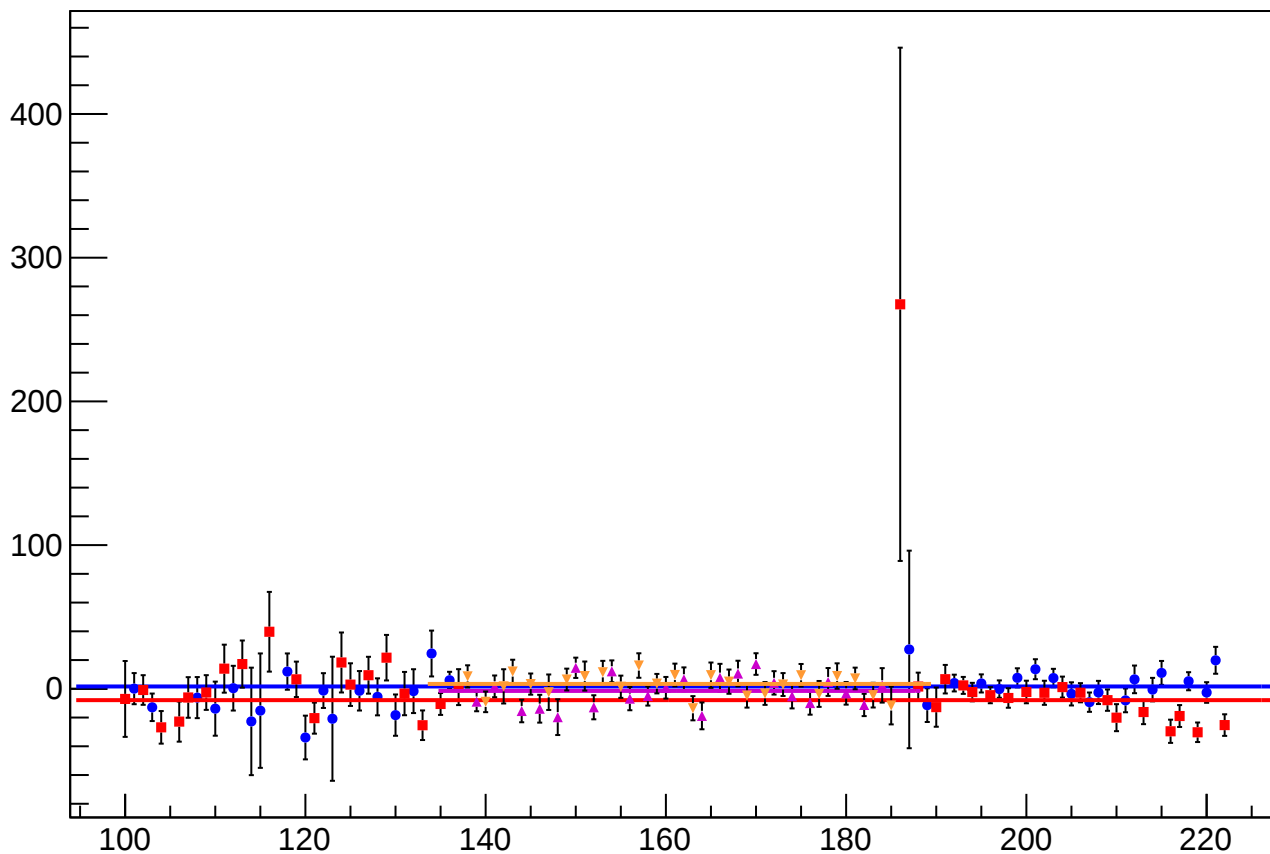
Right: 17781.817+/-2.080 χ^2/NDF : 6051711.9/72

In: 10950.646+/-1.373 χ^2/NDF : 9558527.2/57

Out: 10904.011+/-1.339 χ^2/NDF : 10877482.9/62

All: 10926.738+/-0.958 χ^2/NDF : 20436601.6

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.626 ± 1.534 $\chi^2/\text{NDF}: 32.4/34$

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

Right Out: -7.894 ± 1.519 $\chi^2/\text{NDF}: 66.3/37$

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

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

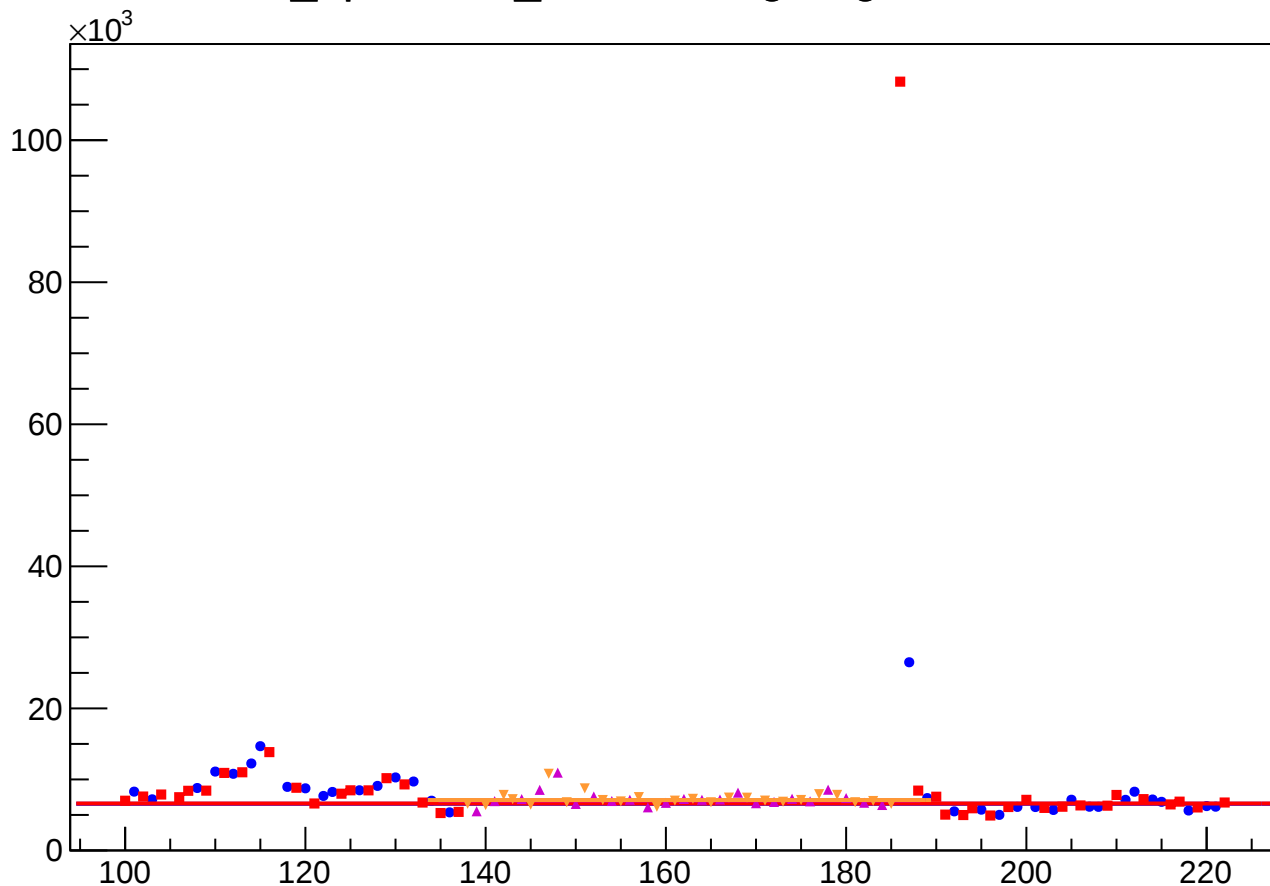
Right: -3.181 ± 1.079 $\chi^2/\text{NDF}: 118.2/72$

In: 0.242 ± 1.142 $\chi^2/\text{NDF}: 71.0/57$

Out: -2.781 ± 1.123 $\chi^2/\text{NDF}: 110.7/62$

All: -1.294 ± 0.801 $\chi^2/\text{NDF}: 185.3/120$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6569.592 $\pm$ 1.084 χ^2/NDF : 1678377.3/34

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

Right Out: 6609.984 $\pm$ 1.074 χ^2/NDF : 2171859.5/37

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

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

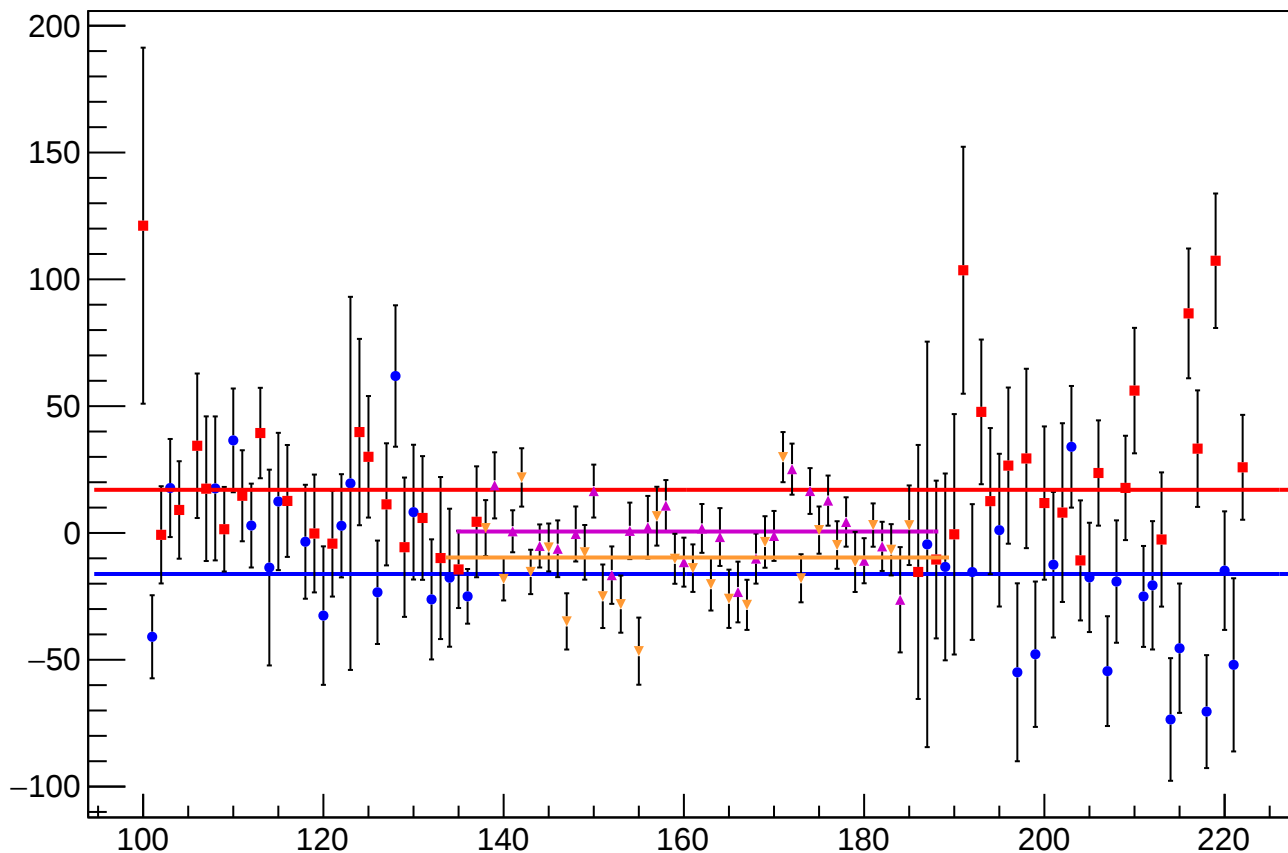
Right: 6589.986 $\pm$ 0.763 χ^2/NDF : 3850937.2/72

In: 6782.512 $\pm$ 0.807 χ^2/NDF : 2282288.8/57

Out: 6830.458 $\pm$ 0.794 χ^2/NDF : 2646781.9/62

All: 6806.885 $\pm$ 0.566 χ^2/NDF : 4930863.3/12

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -16.176 $\pm$ 3.925 χ^2/NDF : 51.9/34

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

Right Out: 17.014 $\pm$ 3.954 χ^2/NDF : 44.8/37

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

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

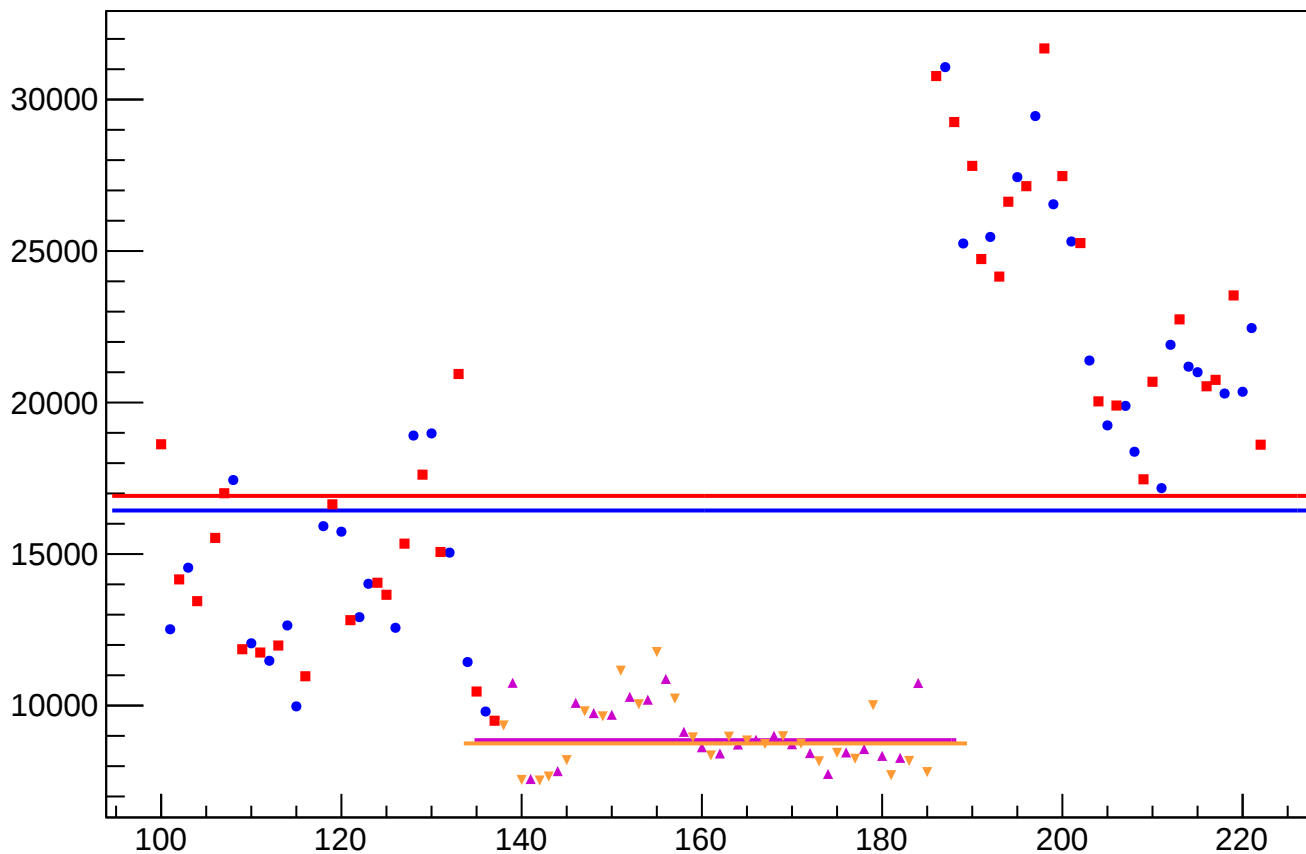
Right: 0.293 $\pm$ 2.786 χ^2/NDF : 132.2/72

In: -3.283 $\pm$ 1.881 χ^2/NDF : 95.6/57

Out: -3.971 $\pm$ 1.827 χ^2/NDF : 138.5/62

All: -3.637 $\pm$ 1.311 χ^2/NDF : 234.2/120

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16437.480 $\pm$ 2.775 χ^2 /NDF: 3534169.4/34

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

Right Out: 16919.770 $\pm$ 2.796 χ^2 /NDF: 3891927.2/37

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

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

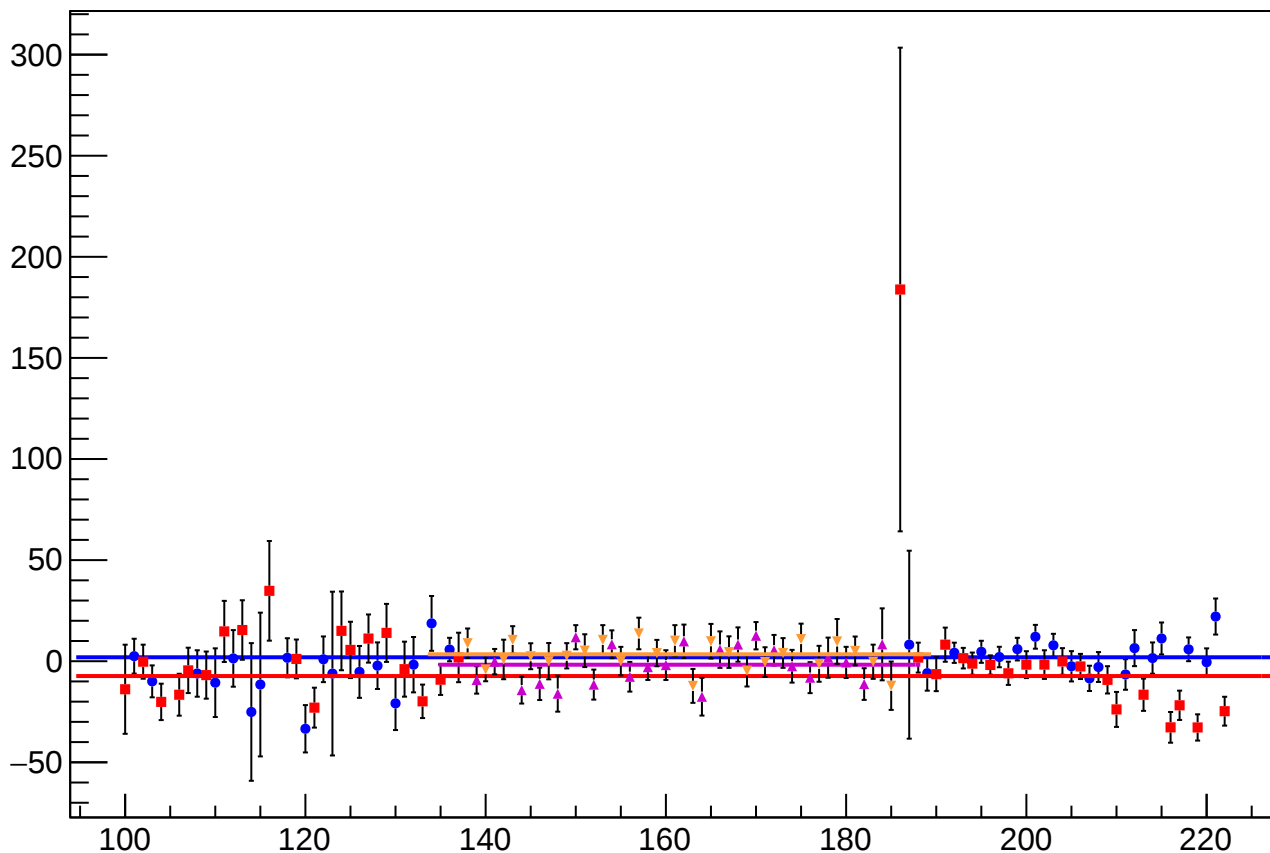
Right: 16676.802 $\pm$ 1.970 χ^2 /NDF: 7441084.7/72

In: 10599.238 $\pm$ 1.330 χ^2 /NDF: 9642637.8/57

Out: 10495.089 $\pm$ 1.292 χ^2 /NDF: 11069026.1/62

All: 10545.650 $\pm$ 0.927 χ^2 /NDF: 20714817.8

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.944 ± 1.362 χ^2/NDF : 36.7/34

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

Right Out: -7.337 ± 1.332 χ^2/NDF : 81.9/37

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

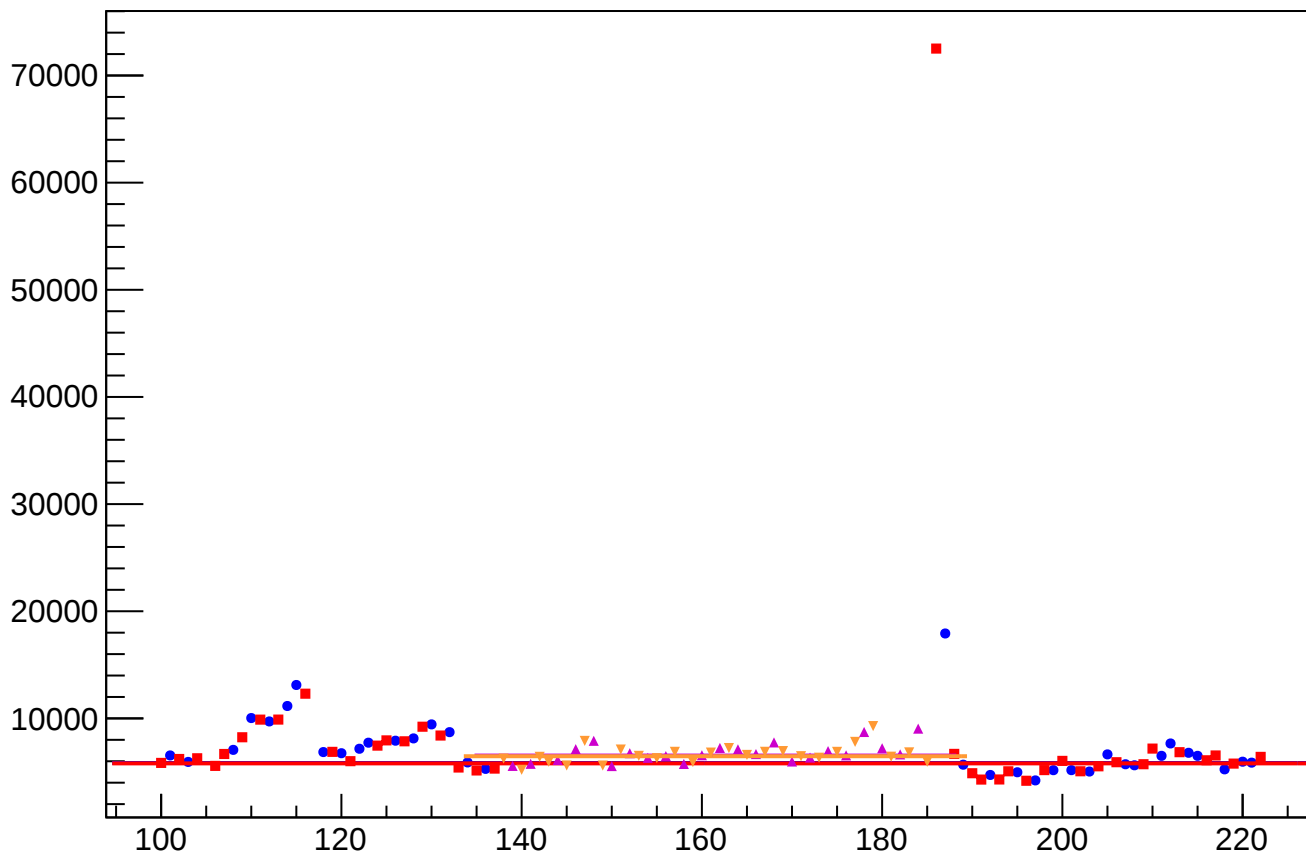
Right: -2.801 ± 0.952 χ^2/NDF : 142.4/72

In: 0.383 ± 1.033 χ^2/NDF : 73.4/57

Out: -2.680 ± 1.003 χ^2/NDF : 126.4/62

All: -1.194 ± 0.720 χ^2/NDF : 204.4/120

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5837.196 $\pm$ 0.963 χ^2 /NDF: 1674401.6/34

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

Right Out: 5801.959 $\pm$ 0.942 χ^2 /NDF: 2265852.4/37

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

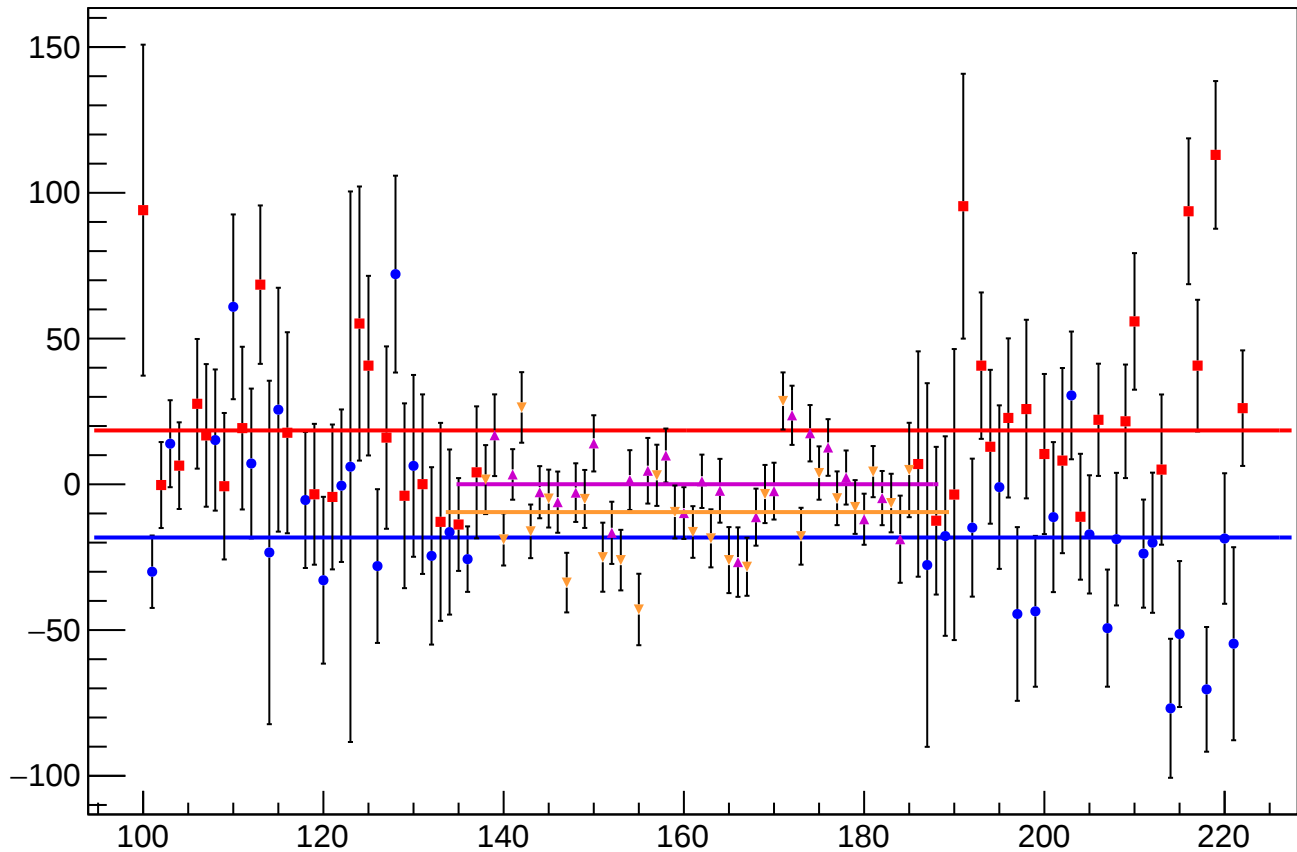
Right: 5819.180 $\pm$ 0.673 χ^2 /NDF: 3940938.5/72

In: 6131.689 $\pm$ 0.731 χ^2 /NDF: 2359355.0/57

Out: 6090.325 $\pm$ 0.709 χ^2 /NDF: 2969964.4/62

All: 6110.398 $\pm$ 0.509 χ^2 /NDF: 5330969.4/12

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -18.244 ± 3.935 $\chi^2/\text{NDF}: 49.9/34$

Left Out: -9.528 ± 2.015 $\chi^2/\text{NDF}: 59.6/24$

Right Out: 18.483 ± 4.010 $\chi^2/\text{NDF}: 51.8/37$

Left In: 0.027 ± 2.080 $\chi^2/\text{NDF}: 29.9/22$

Left: -4.902 ± 1.447 $\chi^2/\text{NDF}: 100.3/47$

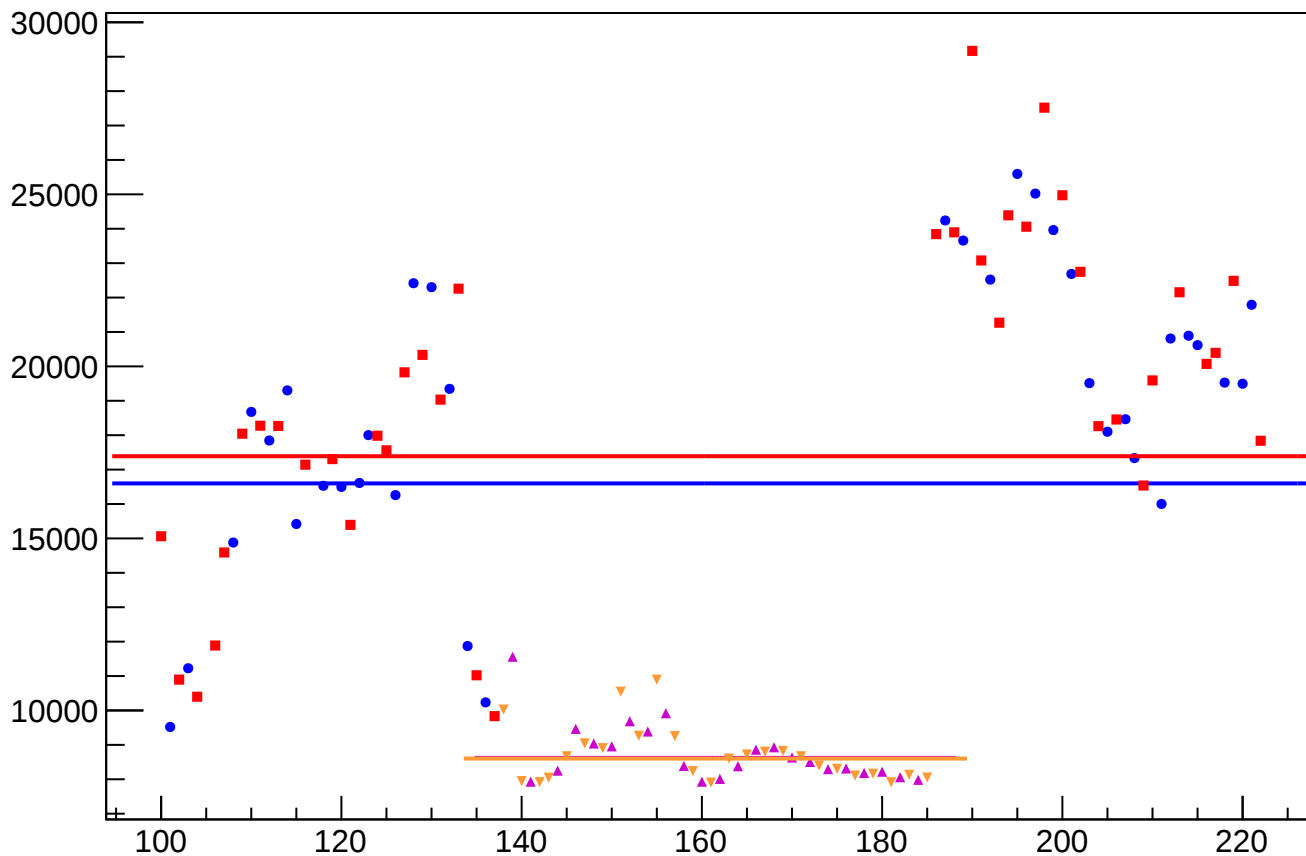
Right: -0.227 ± 2.809 $\chi^2/\text{NDF}: 144.4/72$

In: -3.963 ± 1.839 $\chi^2/\text{NDF}: 96.6/57$

Out: -3.880 ± 1.801 $\chi^2/\text{NDF}: 150.3/62$

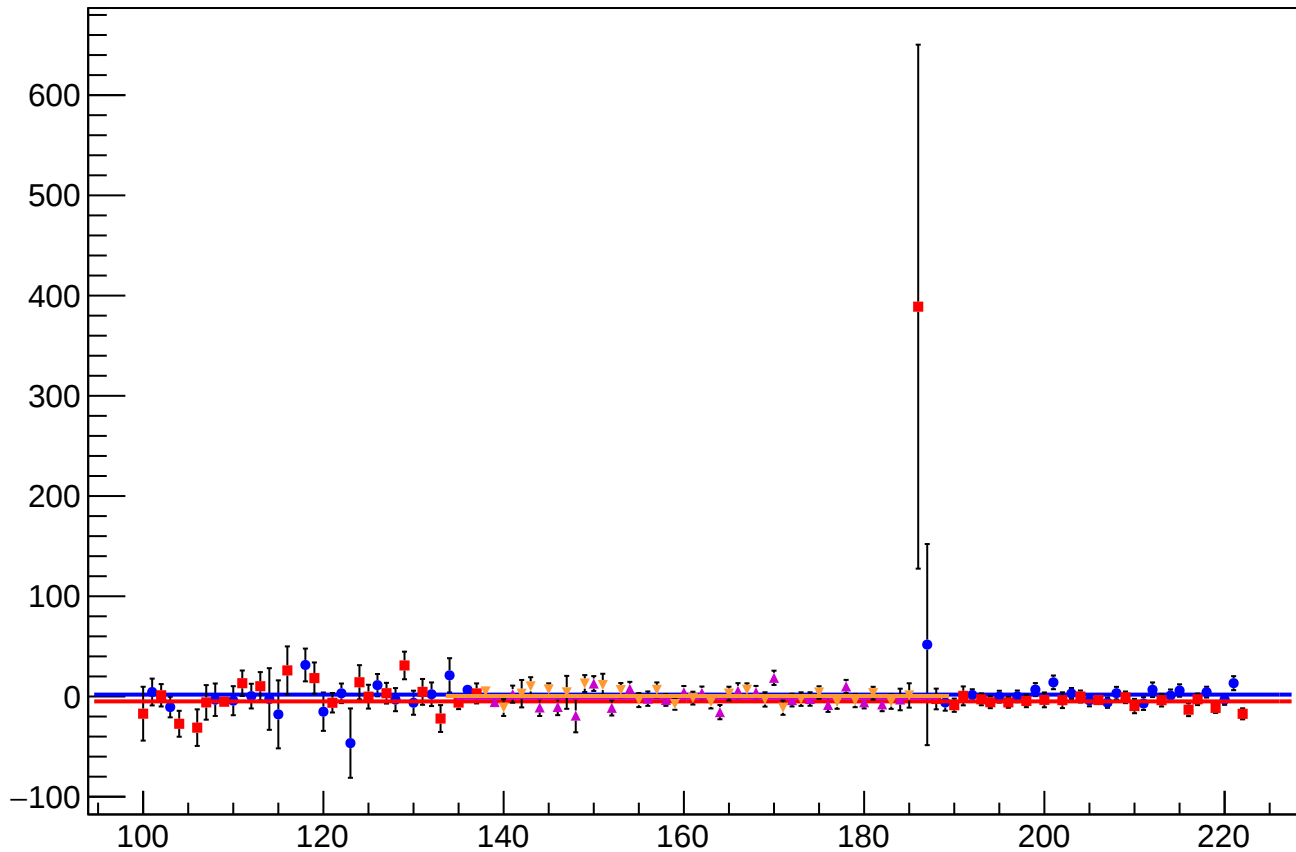
All: -3.921 ± 1.287 $\chi^2/\text{NDF}: 246.9/120$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16599.022 ± 2.782 $\chi^2/\text{NDF}: 3024376.5/34$ Left: 8611.634 ± 1.023 $\chi^2/\text{NDF}: 479823.8/47$
 Left Out: 8601.926 ± 1.425 $\chi^2/\text{NDF}: 248903.5/24$ Right: 16986.323 ± 1.986 $\chi^2/\text{NDF}: 5989552.5/72$
 Right Out: 17388.517 ± 2.835 $\chi^2/\text{NDF}: 2925680.2/37$ In: 10363.913 ± 1.300 $\chi^2/\text{NDF}: 9679699.8/57$
 Left In: 8621.975 ± 1.471 $\chi^2/\text{NDF}: 230824.4/22$ Out: 10373.681 ± 1.273 $\chi^2/\text{NDF}: 10841205.4/62$
 All: 10368.899 ± 0.910 $\chi^2/\text{NDF}: 20520934.0$

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.881 ± 1.304 $\chi^2/\text{NDF}: 26.9/34$

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

Right Out: -4.879 ± 1.258 $\chi^2/\text{NDF}: 37.7/37$

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

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

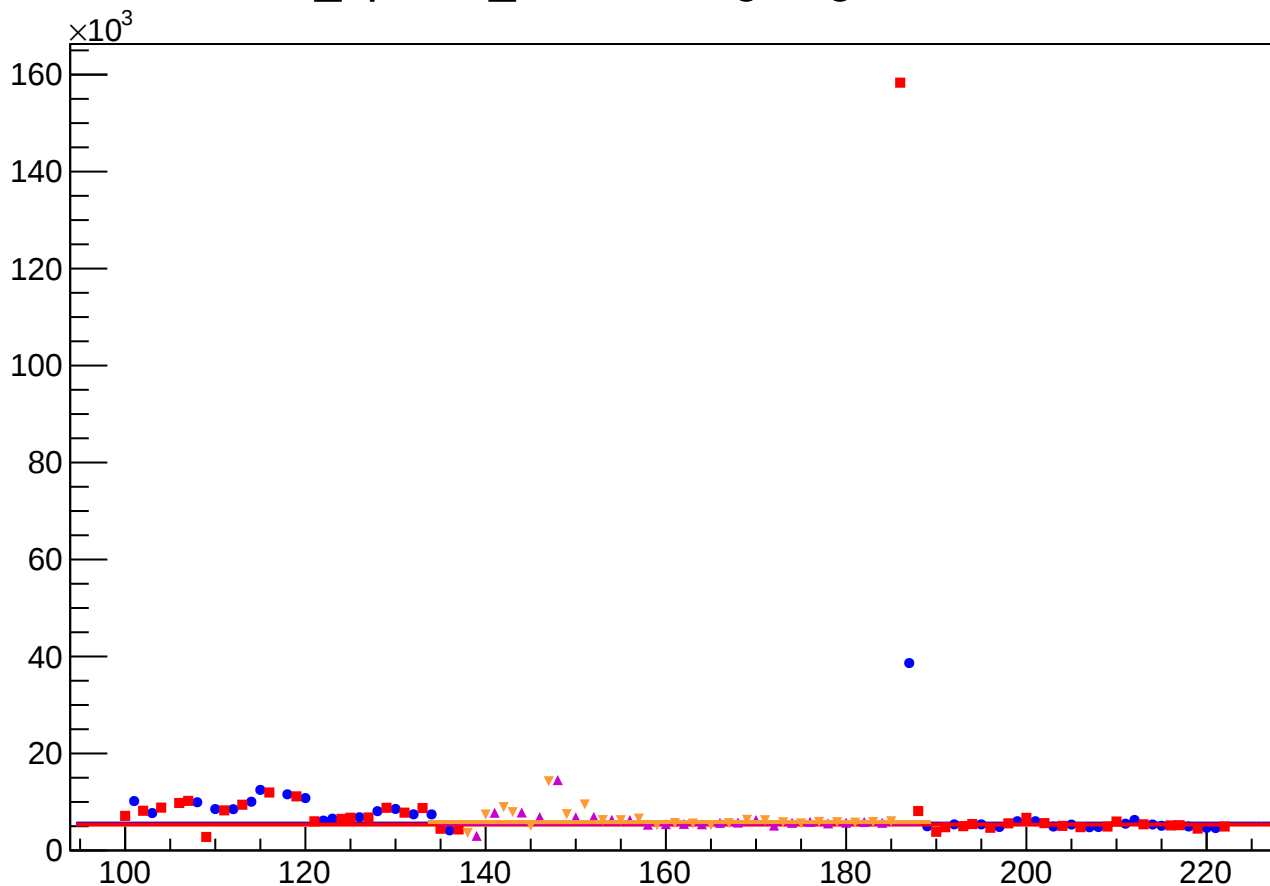
Right: -1.620 ± 0.905 $\chi^2/\text{NDF}: 78.6/72$

In: 0.411 ± 0.956 $\chi^2/\text{NDF}: 62.7/57$

Out: -2.520 ± 0.941 $\chi^2/\text{NDF}: 65.3/62$

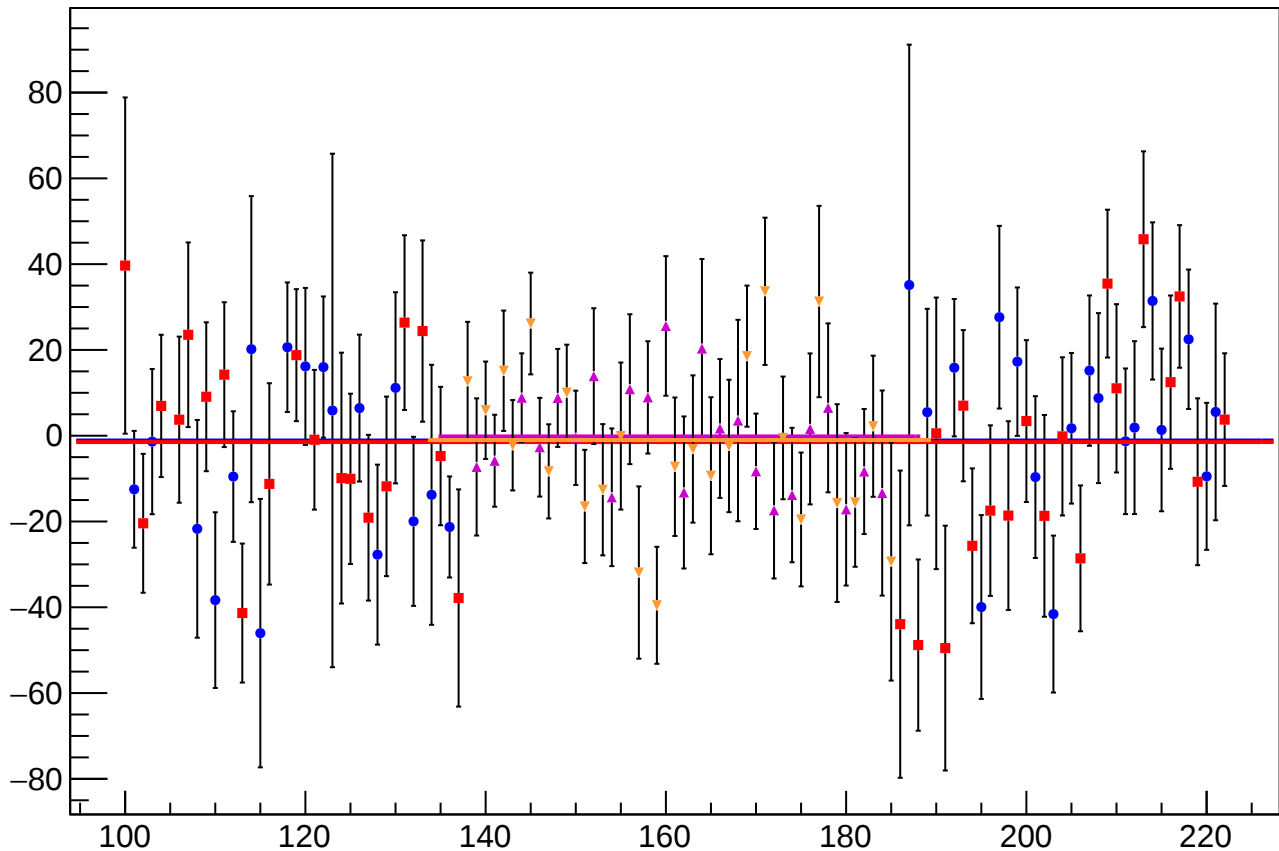
All: -1.077 ± 0.671 $\chi^2/\text{NDF}: 132.8/120$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5536.271+/-0.922	χ^2/NDF : 2282921.5/34	Left: 5726.555+/-0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642+/-1.004	χ^2/NDF : 1691344.1/24	Right: 5433.130+/-0.640	χ^2/NDF : 5844930.2/72
Right Out: 5337.114+/-0.890	χ^2/NDF : 3537848.3/37	In: 5564.292+/-0.676	χ^2/NDF : 4374669.1/57
Left In: 5596.879+/-0.994	χ^2/NDF : 2089750.1/22	Out: 5566.614+/-0.666	χ^2/NDF : 5380417.7/62
		All: 5565.471+/-0.474	χ^2/NDF : 9755092.8/12

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.118 ± 3.198 $\chi^2/\text{NDF}: 37.3/34$

Left Out: -1.007 ± 2.942 $\chi^2/\text{NDF}: 33.5/24$

Right Out: -1.482 ± 3.151 $\chi^2/\text{NDF}: 51.8/37$

Left In: -0.172 ± 3.067 $\chi^2/\text{NDF}: 12.4/22$

Left: -0.607 ± 2.123 $\chi^2/\text{NDF}: 45.9/47$

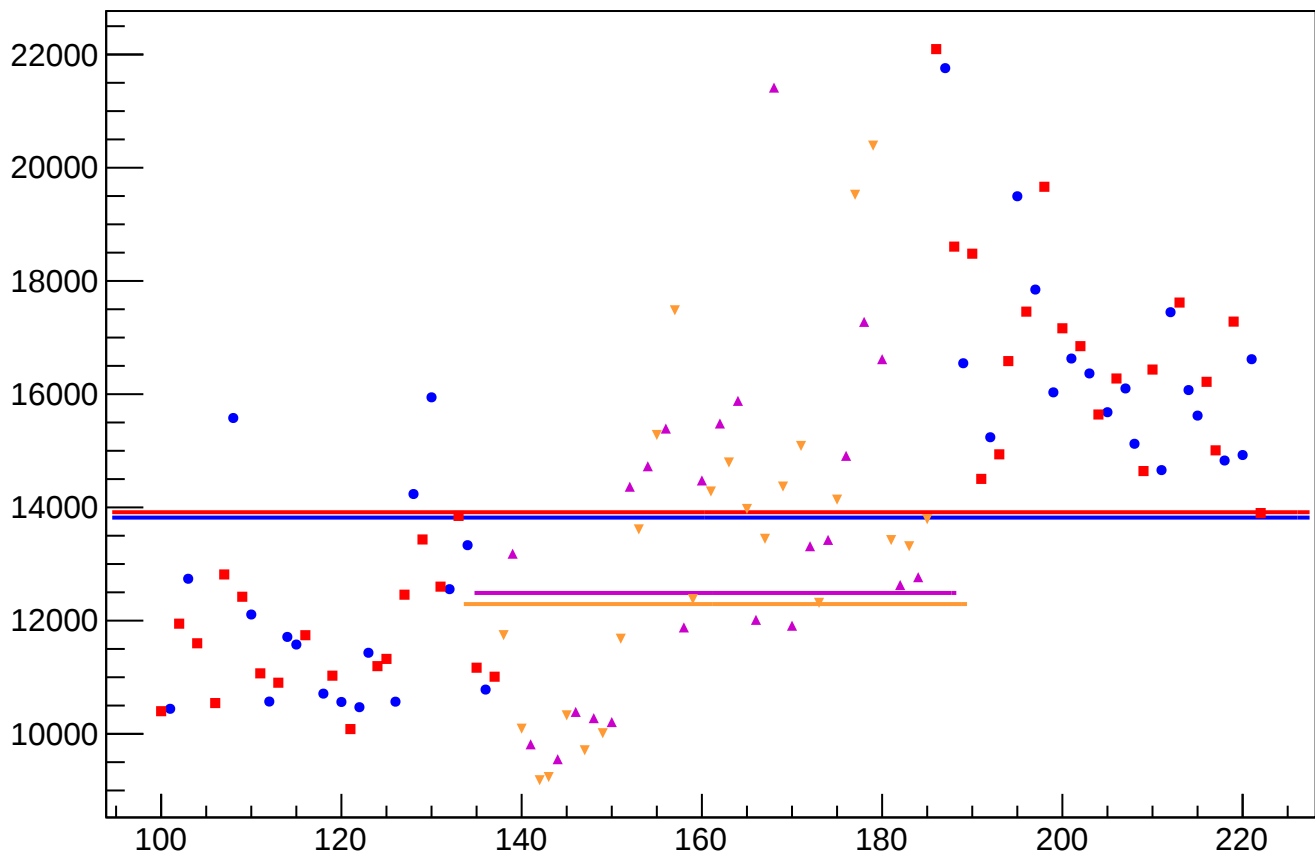
Right: -1.303 ± 2.244 $\chi^2/\text{NDF}: 89.0/72$

In: -0.625 ± 2.214 $\chi^2/\text{NDF}: 49.7/57$

Out: -1.228 ± 2.150 $\chi^2/\text{NDF}: 85.3/62$

All: -0.936 ± 1.542 $\chi^2/\text{NDF}: 135.0/120$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13820.071+/-2.261

χ^2/NDF : 1362567.5/34

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right Out: 13914.797+/-2.228

χ^2/NDF : 1496398.8/37

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Right: 13868.135+/-1.587

χ^2/NDF : 2859856.8/72

In: 13126.746+/-1.565

χ^2/NDF : 2897587.0/57

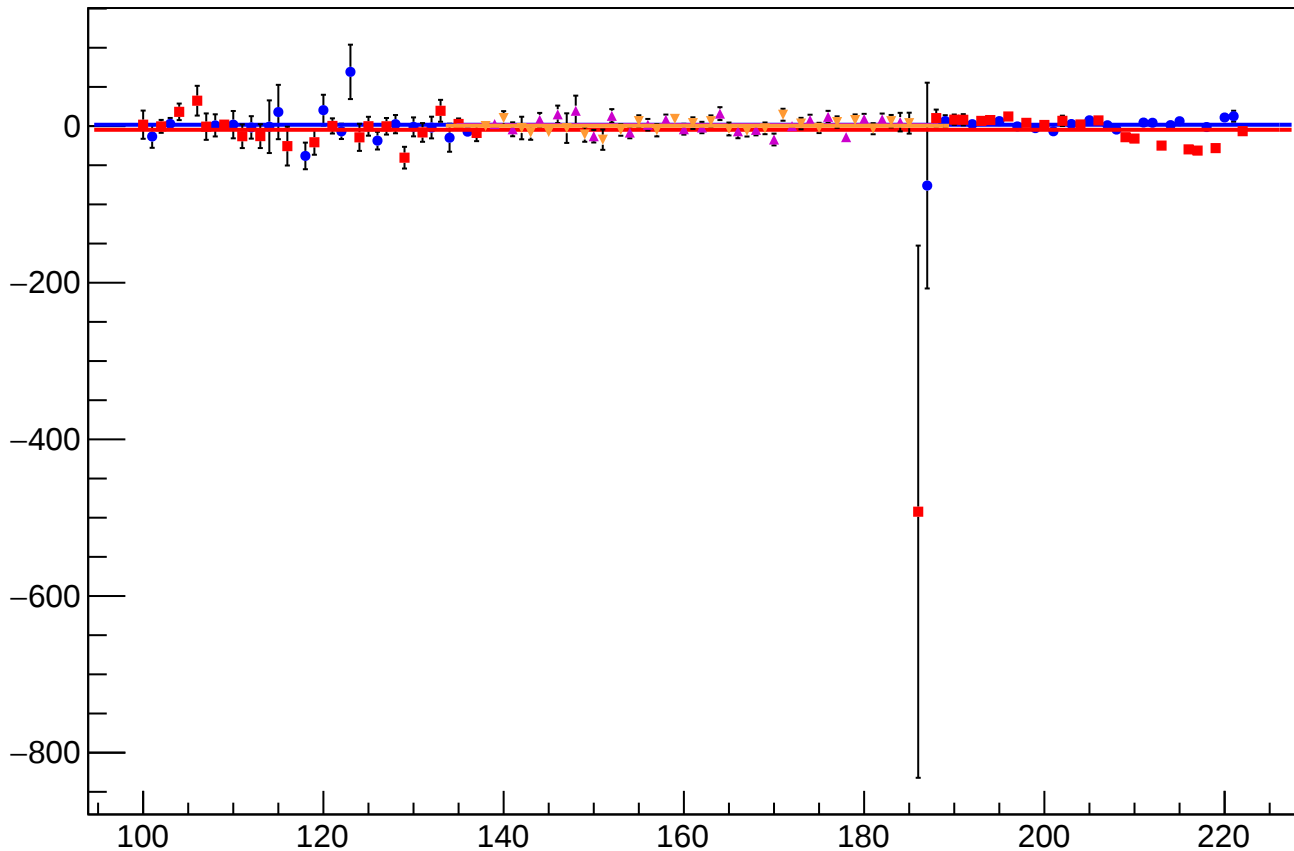
Out: 13048.079+/-1.520

χ^2/NDF : 3282226.8/62

All: 13086.269+/-1.091

χ^2/NDF : 6181113.5/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.687 ± 1.086 χ^2/NDF : 36.4/34

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

Right Out: -4.738 ± 1.085 χ^2/NDF : 177.4/37

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

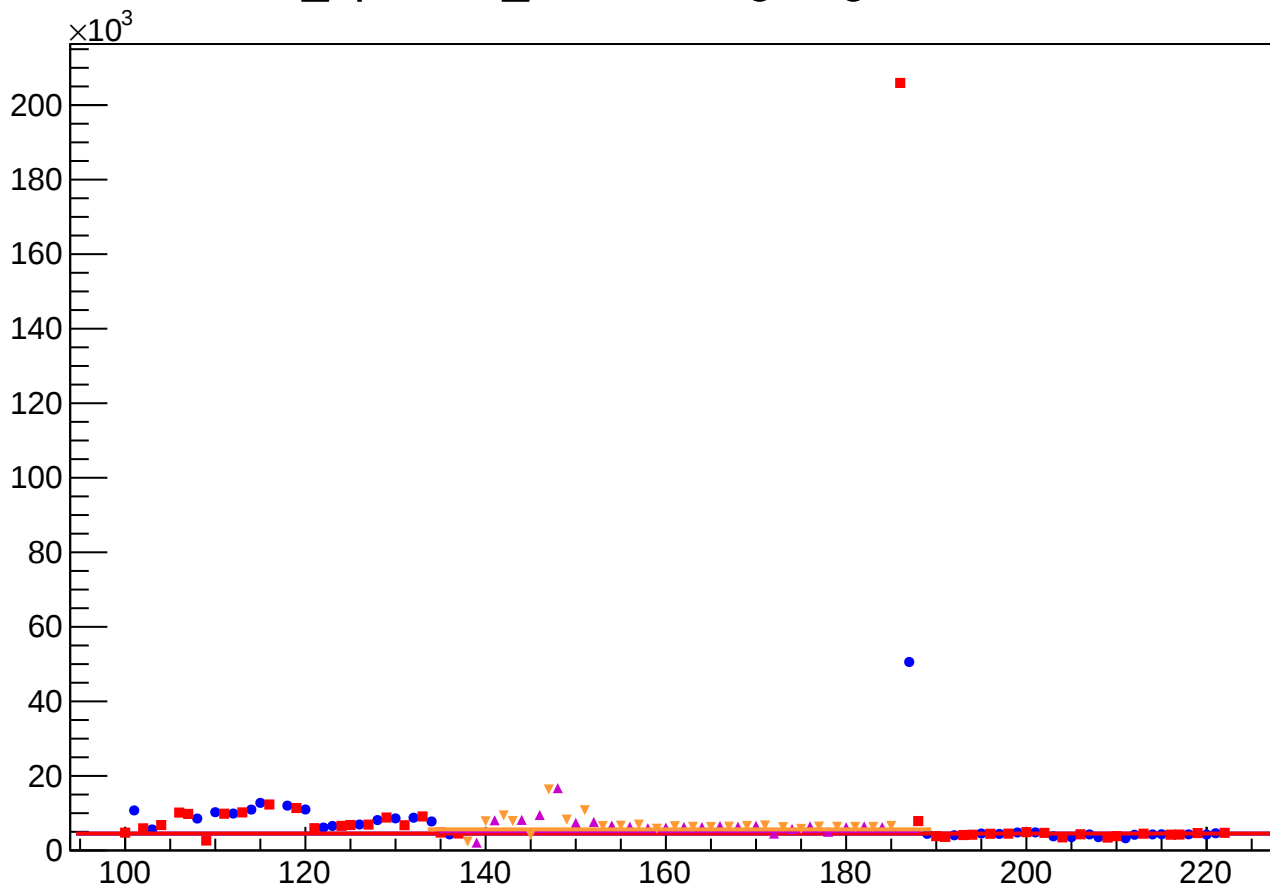
Right: -1.529 ± 0.768 χ^2/NDF : 231.3/72

In: 1.532 ± 0.855 χ^2/NDF : 70.5/57

Out: -2.865 ± 0.865 χ^2/NDF : 204.9/62

All: -0.640 ± 0.608 χ^2/NDF : 288.4/120

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4521.535 $\pm$ 0.768

χ^2/NDF : 3477761.6/34

Left Out: 5655.639 $\pm$ 1.014

χ^2/NDF : 4124124.3/24

Right Out: 4539.561 $\pm$ 0.767

χ^2/NDF : 3971591.9/37

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: 4530.558 $\pm$ 0.543

χ^2/NDF : 7449629.3/72

In: 4772.385 $\pm$ 0.604

χ^2/NDF : 9108188.9/57

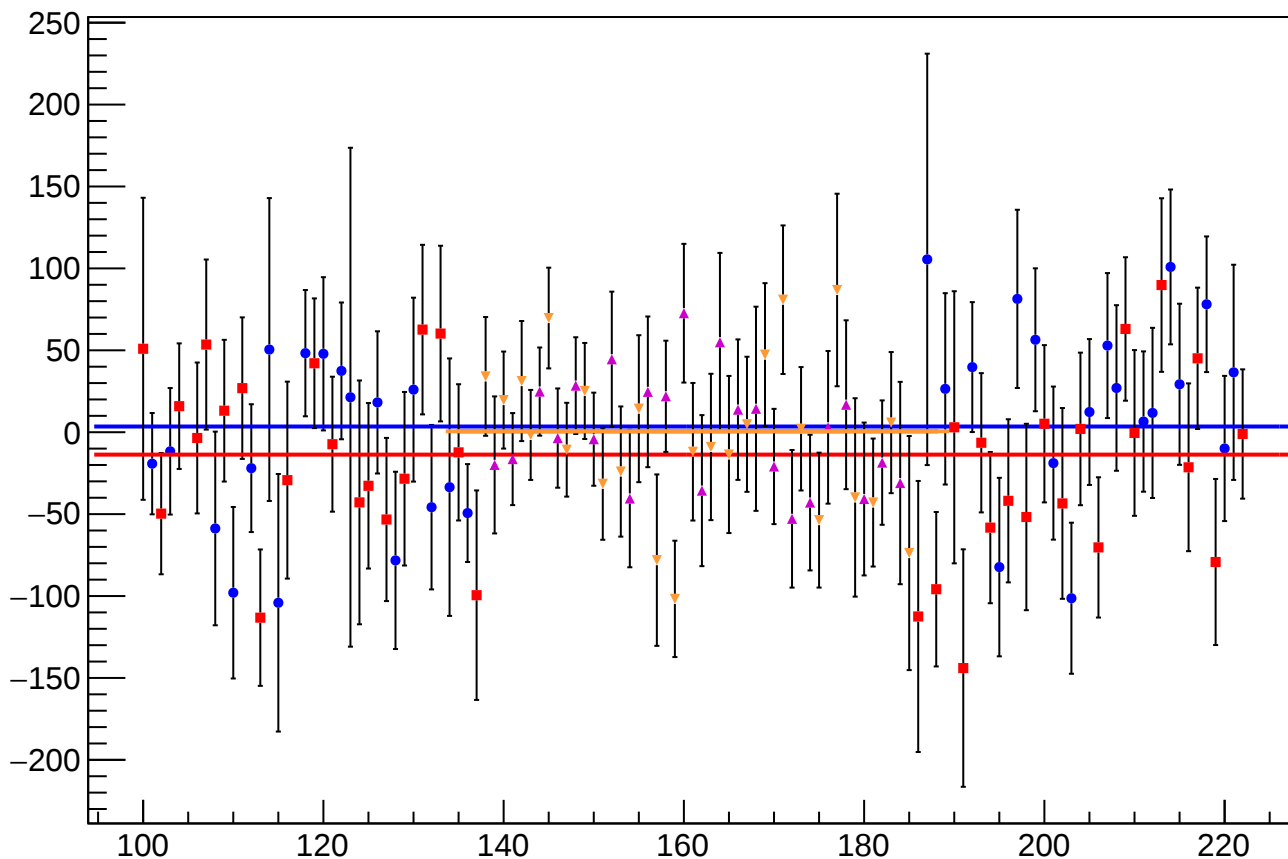
Out: 4945.622 $\pm$ 0.612

χ^2/NDF : 8865796.4/62

All: 4857.946 $\pm$ 0.430

χ^2/NDF : 18014554.8/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.483 $\pm$ 8.020 χ^2/NDF : 40.6/34

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

Right Out: -13.668 $\pm$ 7.901 χ^2/NDF : 42.0/37

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

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

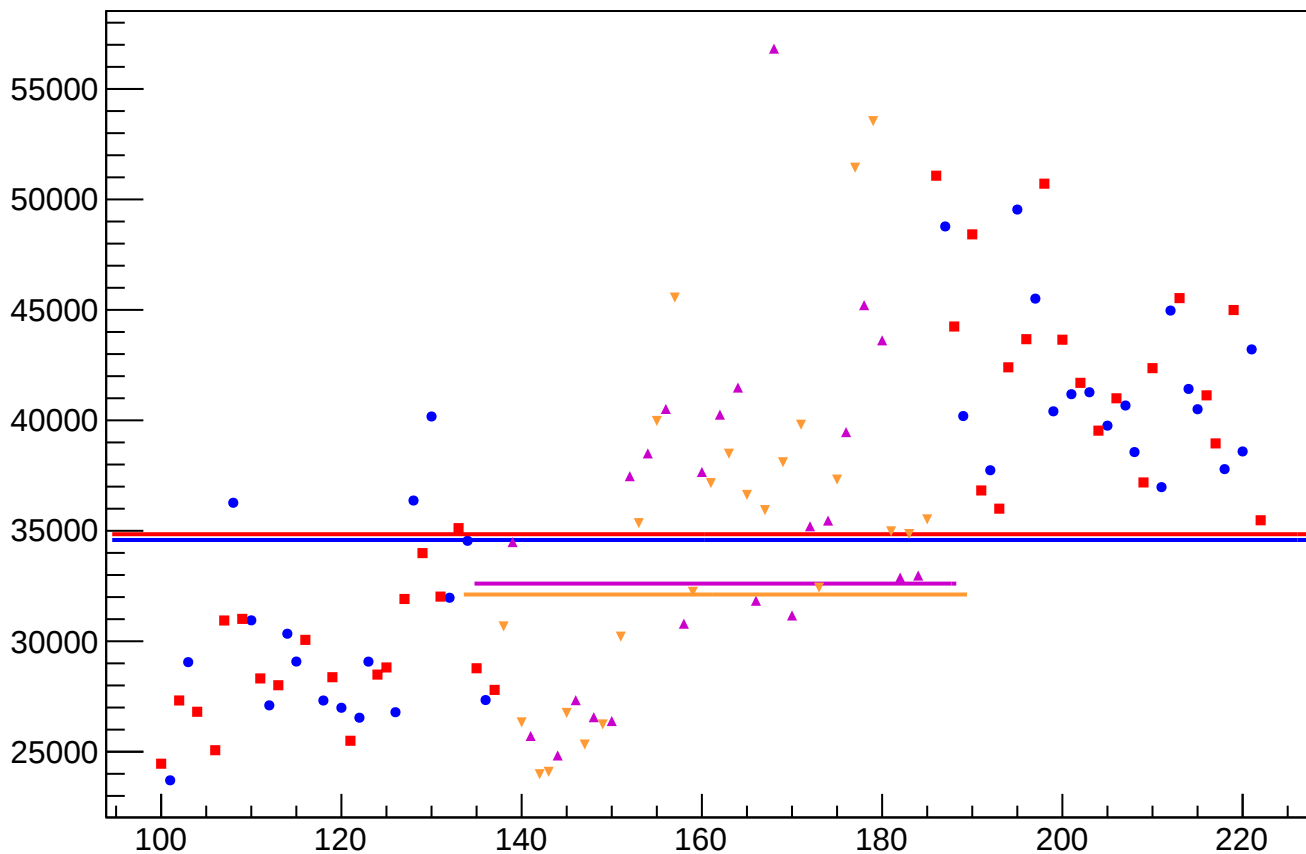
Right: -5.220 $\pm$ 5.628 χ^2/NDF : 85.0/72

In: 2.023 $\pm$ 5.669 χ^2/NDF : 54.9/57

Out: -6.352 $\pm$ 5.511 χ^2/NDF : 74.7/62

All: -2.283 $\pm$ 3.951 χ^2/NDF : 130.8/120

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34584.271+/-5.671

χ^2/NDF : 1500616.5/34

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 34845.947+/-5.587

χ^2/NDF : 1607012.9/37

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Right: 34717.058+/-3.980

χ^2/NDF : 3108710.0/72

In: 33596.563+/-4.009

χ^2/NDF : 2959729.2/57

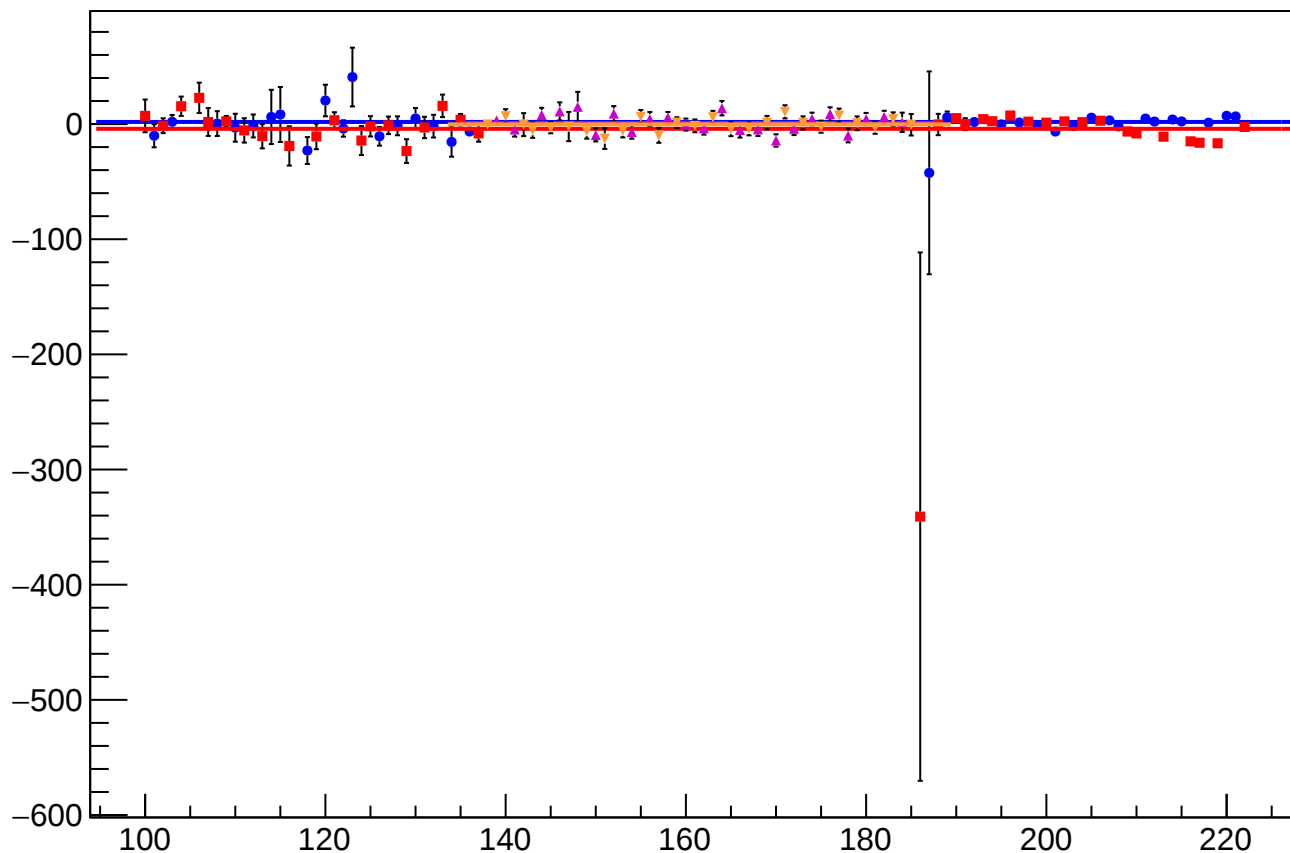
Out: 33444.744+/-3.897

χ^2/NDF : 3266252.1/62

All: 33518.509+/-2.794

χ^2/NDF : 6226718.8/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.838 ± 0.614 $\chi^2/\text{NDF}: 47.3/34$

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

Right Out: -4.135 ± 0.639 $\chi^2/\text{NDF}: 168.1/37$

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

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

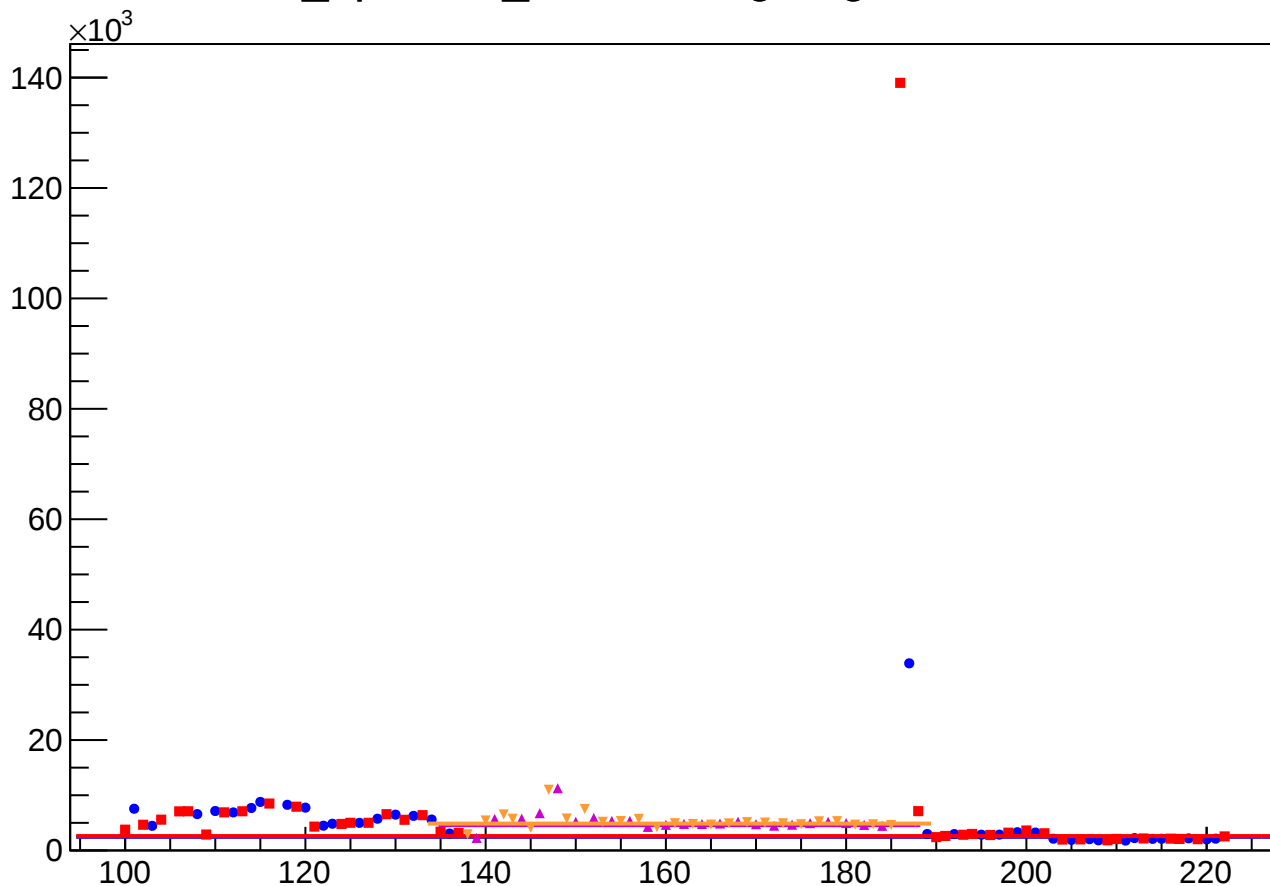
Right: -1.030 ± 0.443 $\chi^2/\text{NDF}: 260.8/72$

In: 1.636 ± 0.542 $\chi^2/\text{NDF}: 83.9/57$

Out: -3.247 ± 0.561 $\chi^2/\text{NDF}: 194.6/62$

All: -0.721 ± 0.390 $\chi^2/\text{NDF}: 317.7/120$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2474.099 $\pm$ 0.434 χ^2/NDF : 5720493.4/34

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

Right Out: 2604.392 $\pm$ 0.452 χ^2/NDF : 6200364.7/37

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

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

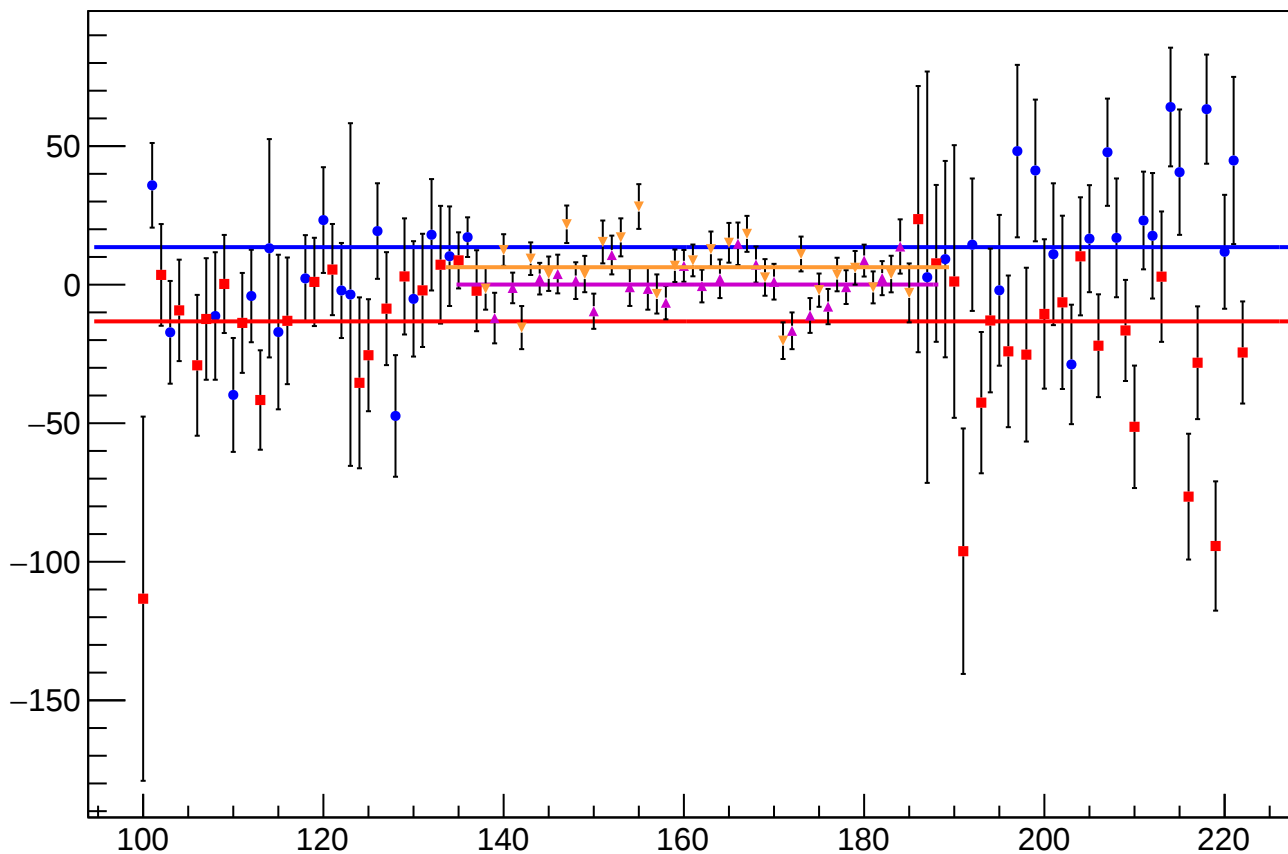
Right: 2536.652 $\pm$ 0.313 χ^2/NDF : 11964069.9/72

In: 2939.617 $\pm$ 0.383 χ^2/NDF : 13402252.1/57

Out: 3122.335 $\pm$ 0.397 χ^2/NDF : 13448263.1/62

All: 3027.818 $\pm$ 0.276 χ^2/NDF : 26960176.5/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.545 $\pm$ 3.270 χ^2/NDF : 50.4/34

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

Right Out: -13.247 $\pm$ 3.381 χ^2/NDF : 48.9/37

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

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

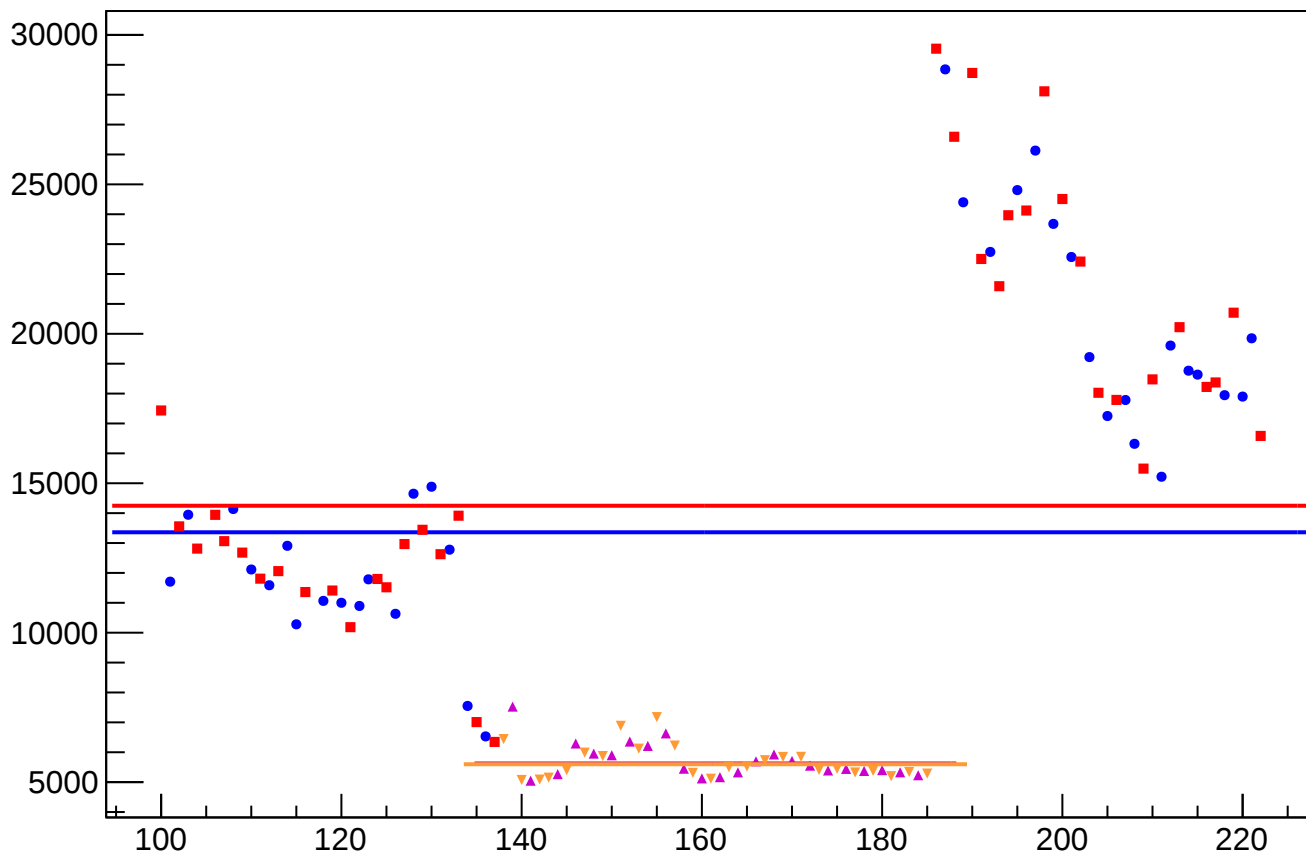
Right: 0.596 $\pm$ 2.351 χ^2/NDF : 131.7/72

In: 2.029 $\pm$ 1.254 χ^2/NDF : 95.0/57

Out: 3.742 $\pm$ 1.224 χ^2/NDF : 134.6/62

All: 2.907 $\pm$ 0.876 χ^2/NDF : 230.5/120

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13359.561 $\pm$ 2.313 χ^2 /NDF: 5242524.2/34

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

Right Out: 14247.527 $\pm$ 2.391 χ^2 /NDF: 5032120.7/37

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

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

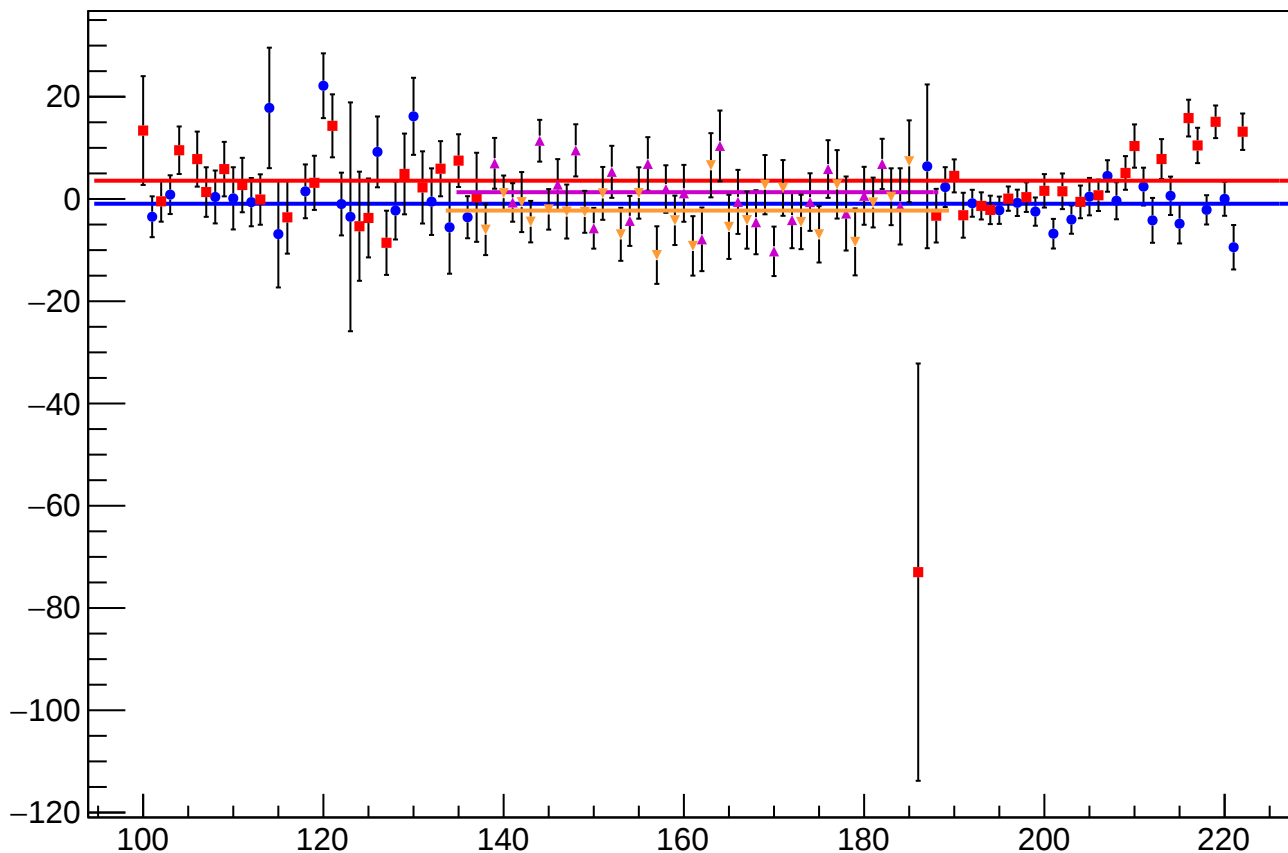
Right: 13788.724 $\pm$ 1.662 χ^2 /NDF: 10345904.5/72

In: 6762.239 $\pm$ 0.887 χ^2 /NDF: 15056625.2/57

Out: 6731.256 $\pm$ 0.865 χ^2 /NDF: 16685768.4/62

All: 6746.368 $\pm$ 0.619 χ^2 /NDF: 31743019.1/119

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.932 ± 0.677 χ^2/NDF : 41.8/34

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

Right Out: 3.577 ± 0.667 χ^2/NDF : 77.3/37

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

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

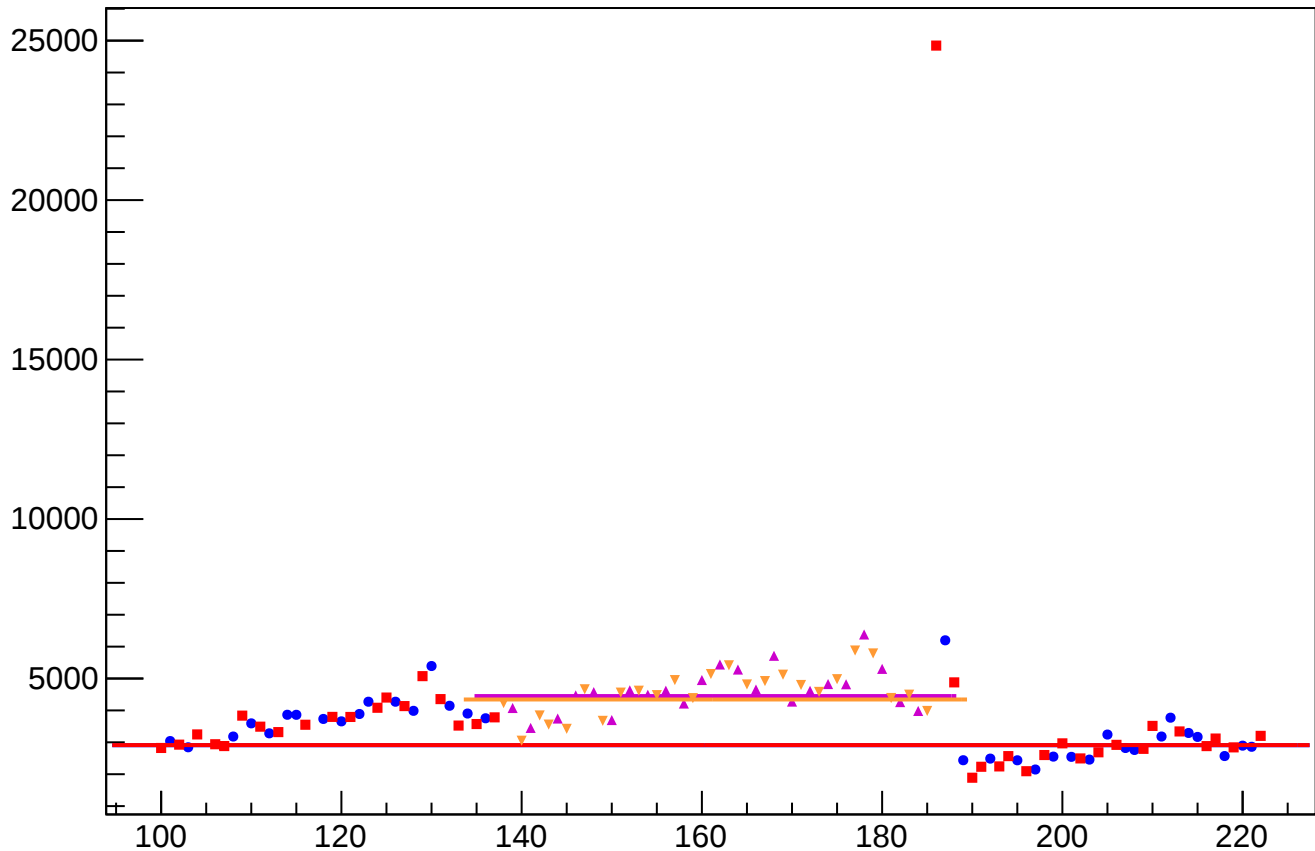
Right: 1.355 ± 0.475 χ^2/NDF : 141.6/72

In: -0.296 ± 0.574 χ^2/NDF : 75.6/57

Out: 1.851 ± 0.560 χ^2/NDF : 115.4/62

All: 0.803 ± 0.401 χ^2/NDF : 198.1/120

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2908.342+/-0.479 χ^2/NDF : 1446747.5/34

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

Right Out: 2912.676+/-0.472 χ^2/NDF : 2360617.2/37

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

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

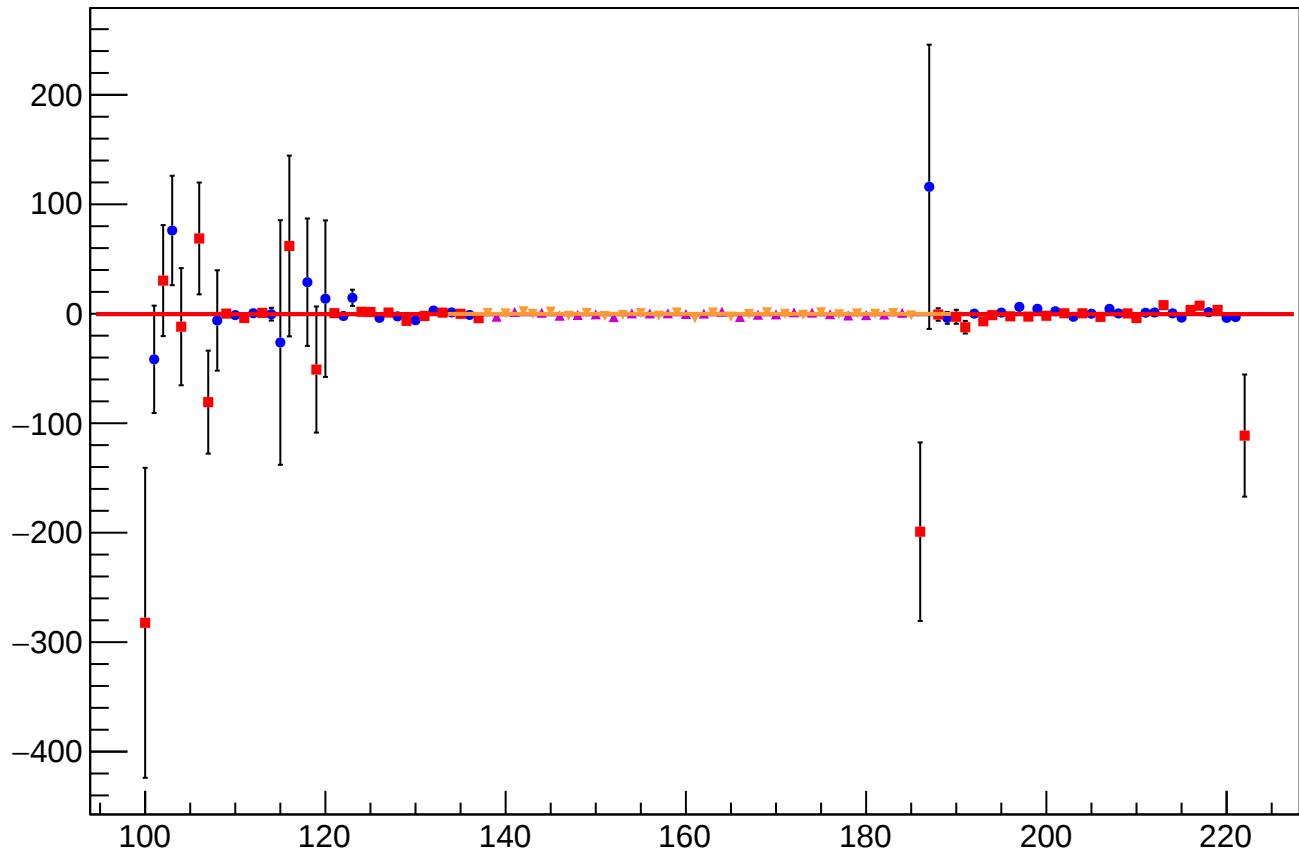
Right: 2910.540+/-0.336 χ^2/NDF : 3807406.3/72

In: 3342.058+/-0.406 χ^2/NDF : 5057930.0/57

Out: 3335.451+/-0.396 χ^2/NDF : 6068007.8/62

All: 3338.674+/-0.283 χ^2/NDF : 11126073.5/119

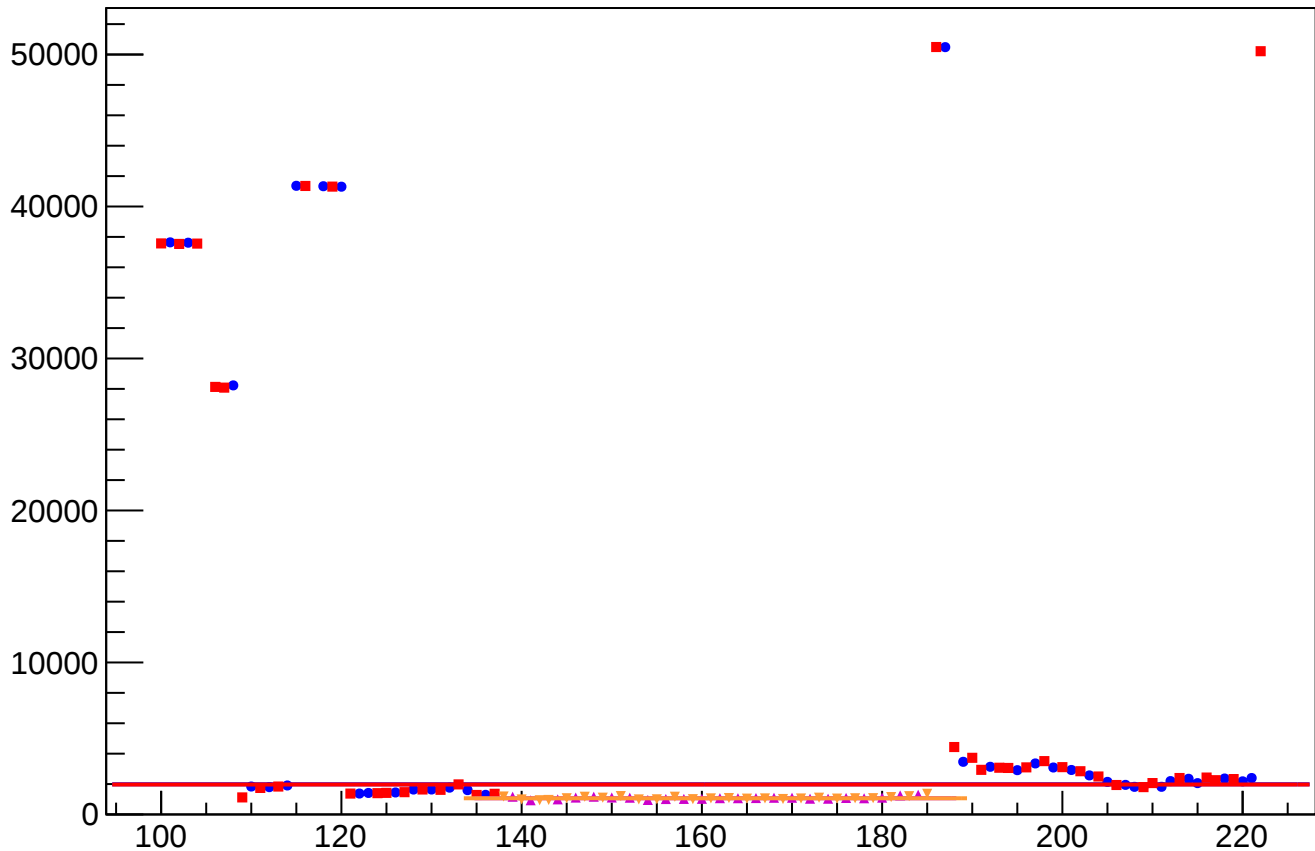
diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.371 ± 0.501 χ^2/NDF : 36.8/34
 Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24
 Right Out: -0.278 ± 0.513 χ^2/NDF : 66.0/37
 Left In: -0.259 ± 0.257 χ^2/NDF : 27.2/22

Left: -0.173 ± 0.179 χ^2/NDF : 61.9/47
 Right: -0.326 ± 0.358 χ^2/NDF : 102.9/72
 In: -0.283 ± 0.229 χ^2/NDF : 64.1/57
 Out: -0.127 ± 0.224 χ^2/NDF : 100.6/62
 All: -0.203 ± 0.160 χ^2/NDF : 164.9/120

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1984.810 ± 0.354 $\chi^2/\text{NDF}: 7089334.4/34$

Left Out: 1064.701 ± 0.176 $\chi^2/\text{NDF}: 186511.5/24$

Right Out: 1969.998 ± 0.362 $\chi^2/\text{NDF}: 10036408.0/37$

Left In: 1066.255 ± 0.182 $\chi^2/\text{NDF}: 164232.1/22$

Left: 1065.454 ± 0.126 $\chi^2/\text{NDF}: 350781.3/47$

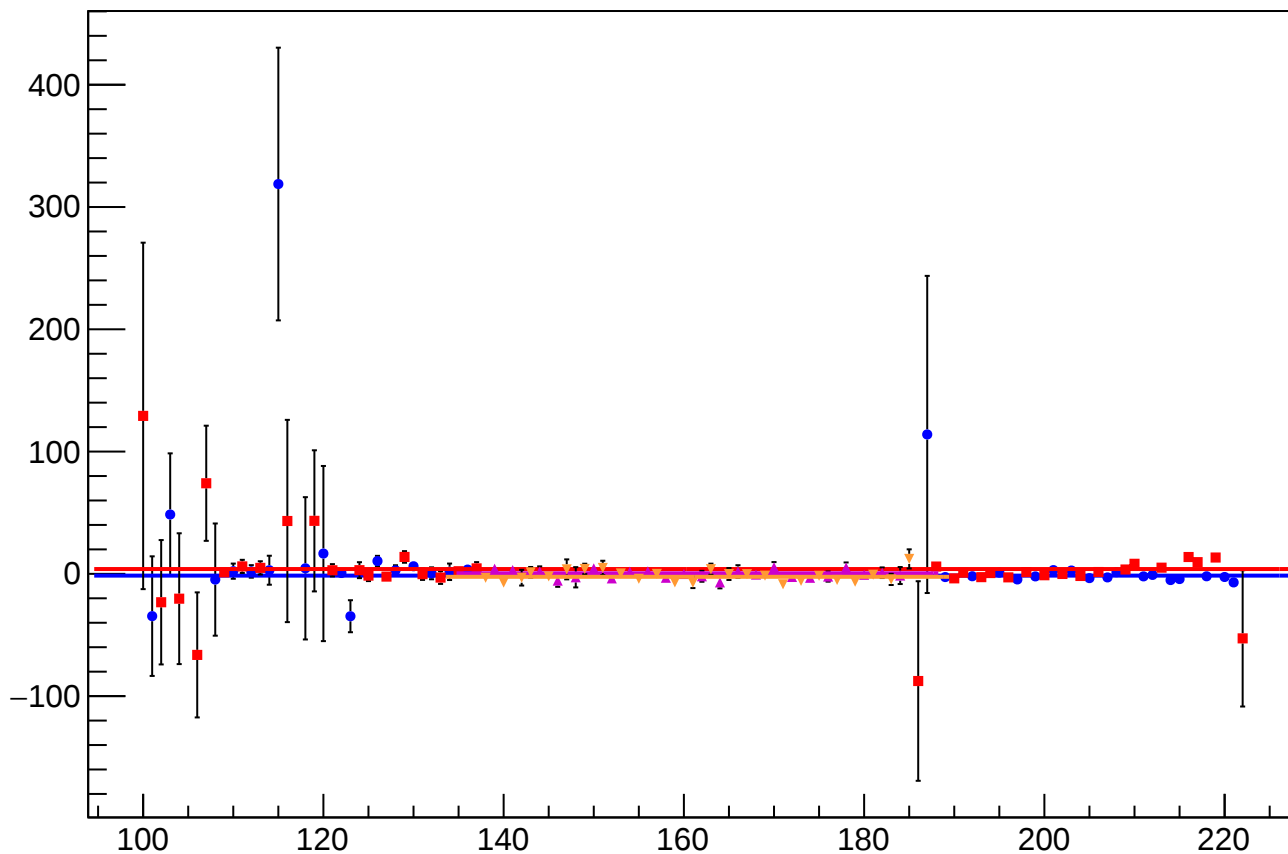
Right: 1977.580 ± 0.253 $\chi^2/\text{NDF}: 17126597.5/72$

In: 1257.857 ± 0.162 $\chi^2/\text{NDF}: 12584323.7/57$

Out: 1237.614 ± 0.158 $\chi^2/\text{NDF}: 15270646.0/62$

All: 1247.530 ± 0.113 $\chi^2/\text{NDF}: 27862971.1/113$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -1.447 ± 0.416 χ^2/NDF : 68.8/34

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

Right Out: 3.933 ± 0.446 χ^2/NDF : 149.6/37

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

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

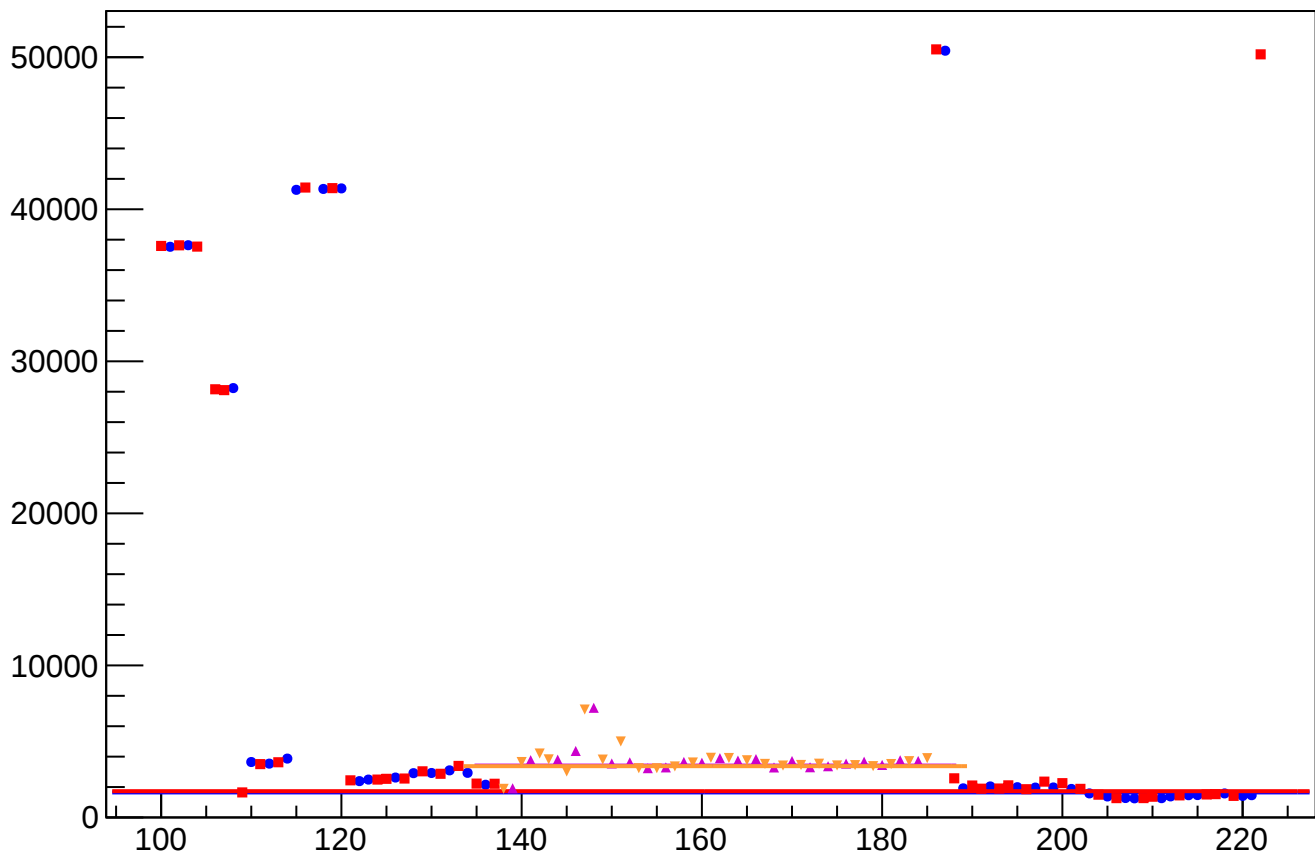
Right: 1.059 ± 0.304 χ^2/NDF : 296.2/72

In: -1.072 ± 0.373 χ^2/NDF : 88.4/57

Out: 2.457 ± 0.391 χ^2/NDF : 218.0/62

All: 0.612 ± 0.270 χ^2/NDF : 349.1/120

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1646.144 ± 0.294 $\chi^2/\text{NDF}: 7170440.3/34$

Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$

Right Out: 1728.413 ± 0.315 $\chi^2/\text{NDF}: 9208334.2/37$

Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

Left: 3391.680 ± 0.413 $\chi^2/\text{NDF}: 3093609.1/47$

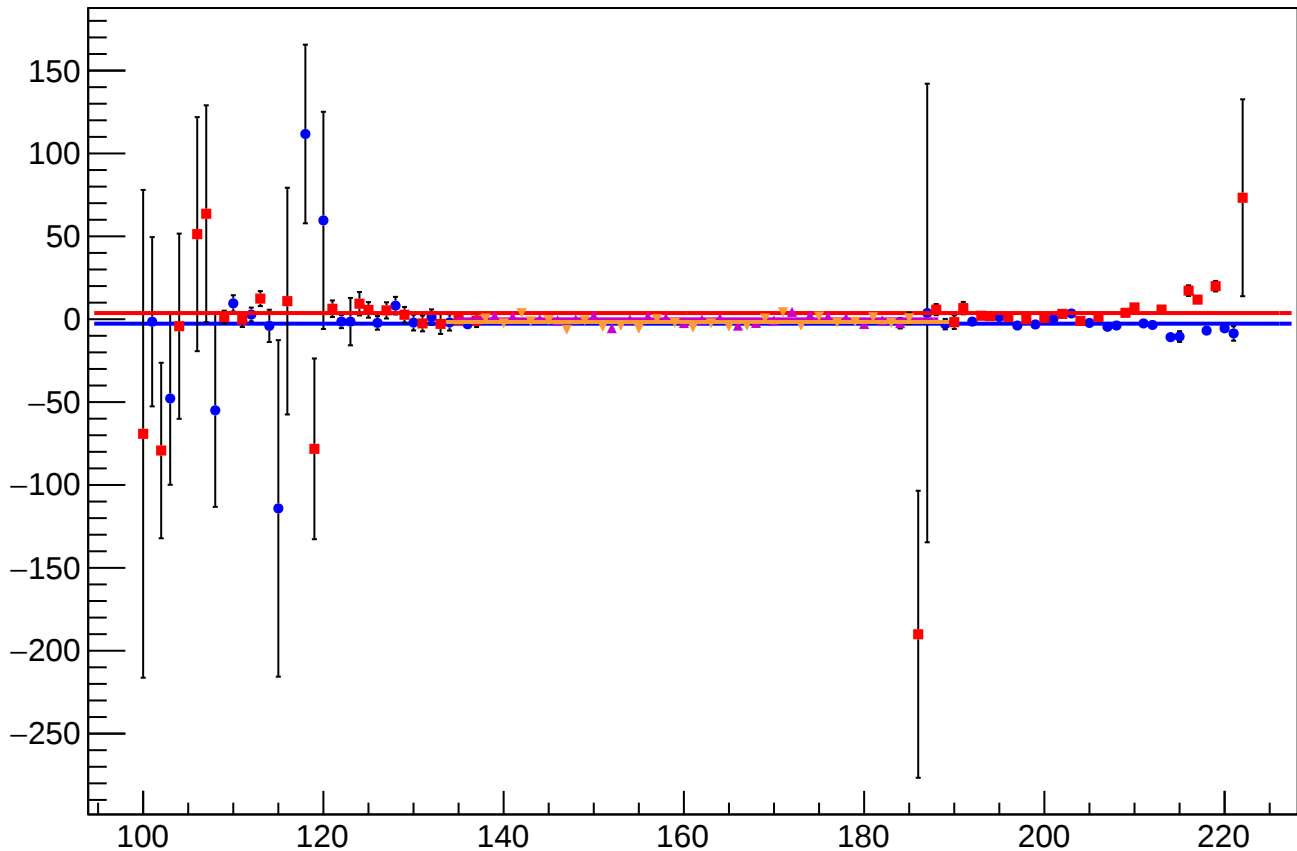
Right: 1684.460 ± 0.215 $\chi^2/\text{NDF}: 16415156.3/72$

In: 1992.398 ± 0.264 $\chi^2/\text{NDF}: 15661737.4/57$

Out: 2110.419 ± 0.276 $\chi^2/\text{NDF}: 17185946.2/62$

All: 2048.719 ± 0.191 $\chi^2/\text{NDF}: 32943116.2/1$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -2.681 ± 0.540 χ^2/NDF : 54.0/34

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

Right Out: 3.727 ± 0.567 χ^2/NDF : 93.6/37

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

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

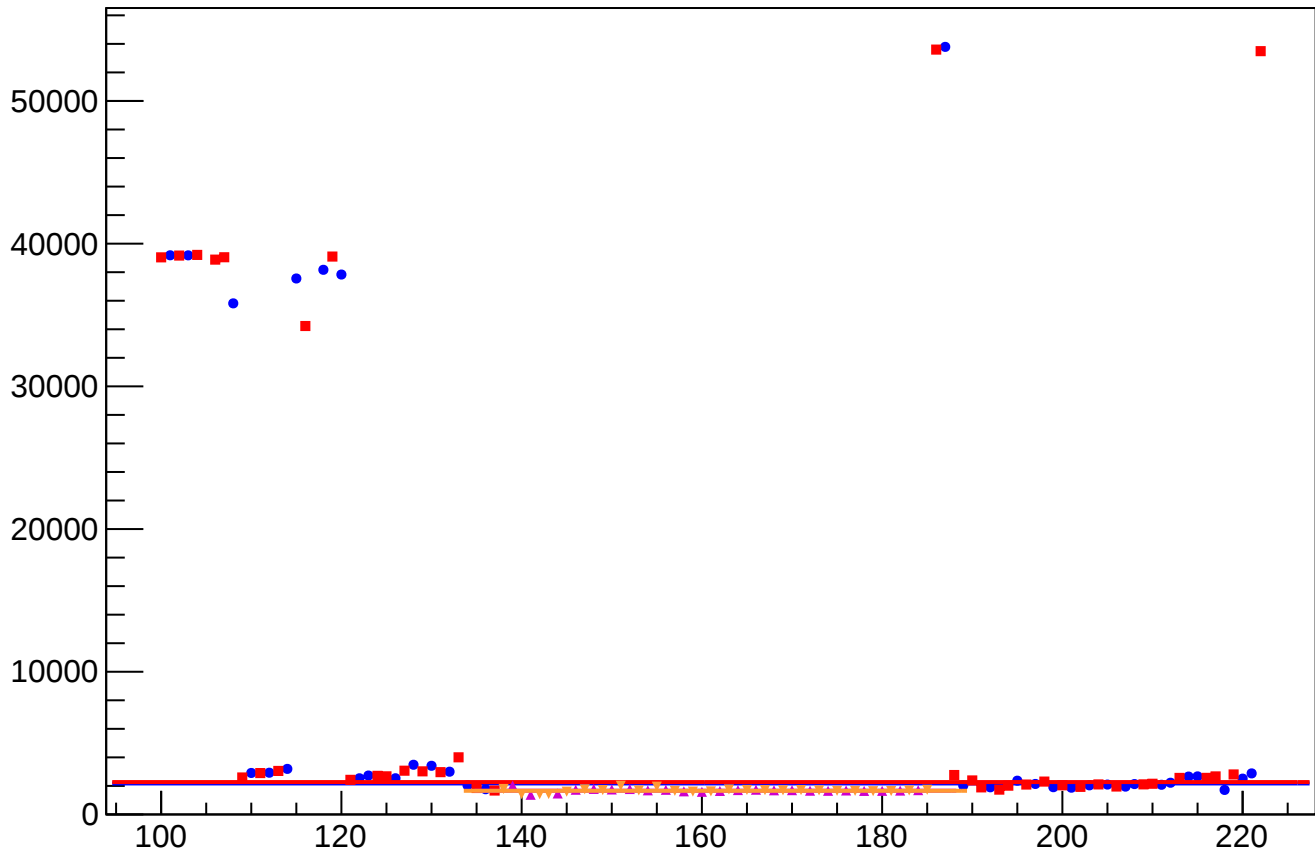
Right: 0.362 ± 0.391 χ^2/NDF : 214.6/72

In: -1.000 ± 0.322 χ^2/NDF : 97.3/57

Out: 0.049 ± 0.320 χ^2/NDF : 201.0/62

All: -0.473 ± 0.227 χ^2/NDF : 303.6/120

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2172.571 $\pm$ 0.382 χ^2 /NDF: 5740957.0/34

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

Right Out: 2269.757 $\pm$ 0.401 χ^2 /NDF: 7706521.5/37

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

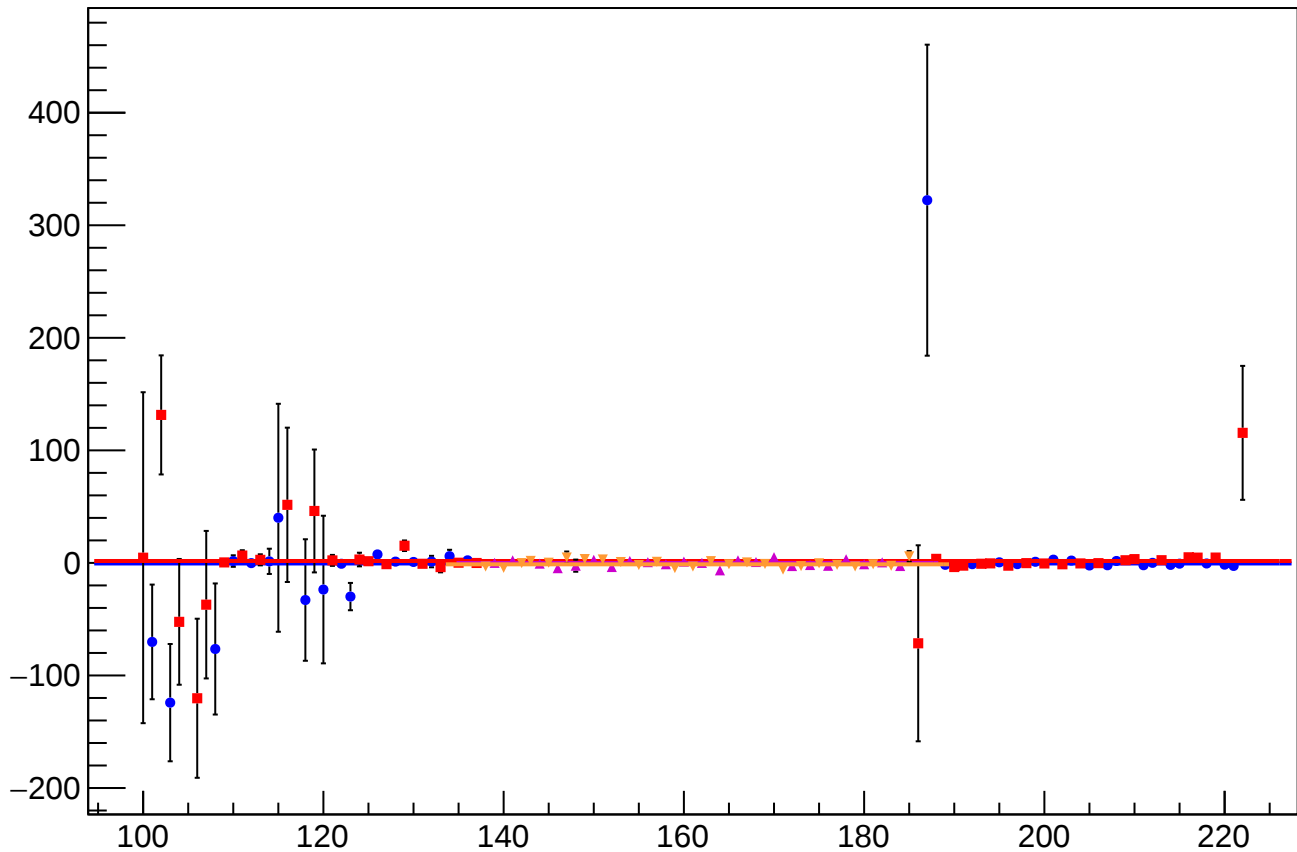
Right: 2218.726 $\pm$ 0.276 χ^2 /NDF: 13478287.1/72

In: 1844.714 $\pm$ 0.228 χ^2 /NDF: 7065888.3/57

Out: 1852.810 $\pm$ 0.227 χ^2 /NDF: 9515120.2/62

All: 1848.782 $\pm$ 0.161 χ^2 /NDF: 16581644.2/1

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.491 ± 0.346 χ^2/NDF : 48.0/34

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

Right Out: 1.709 ± 0.361 χ^2/NDF : 74.9/37

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

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

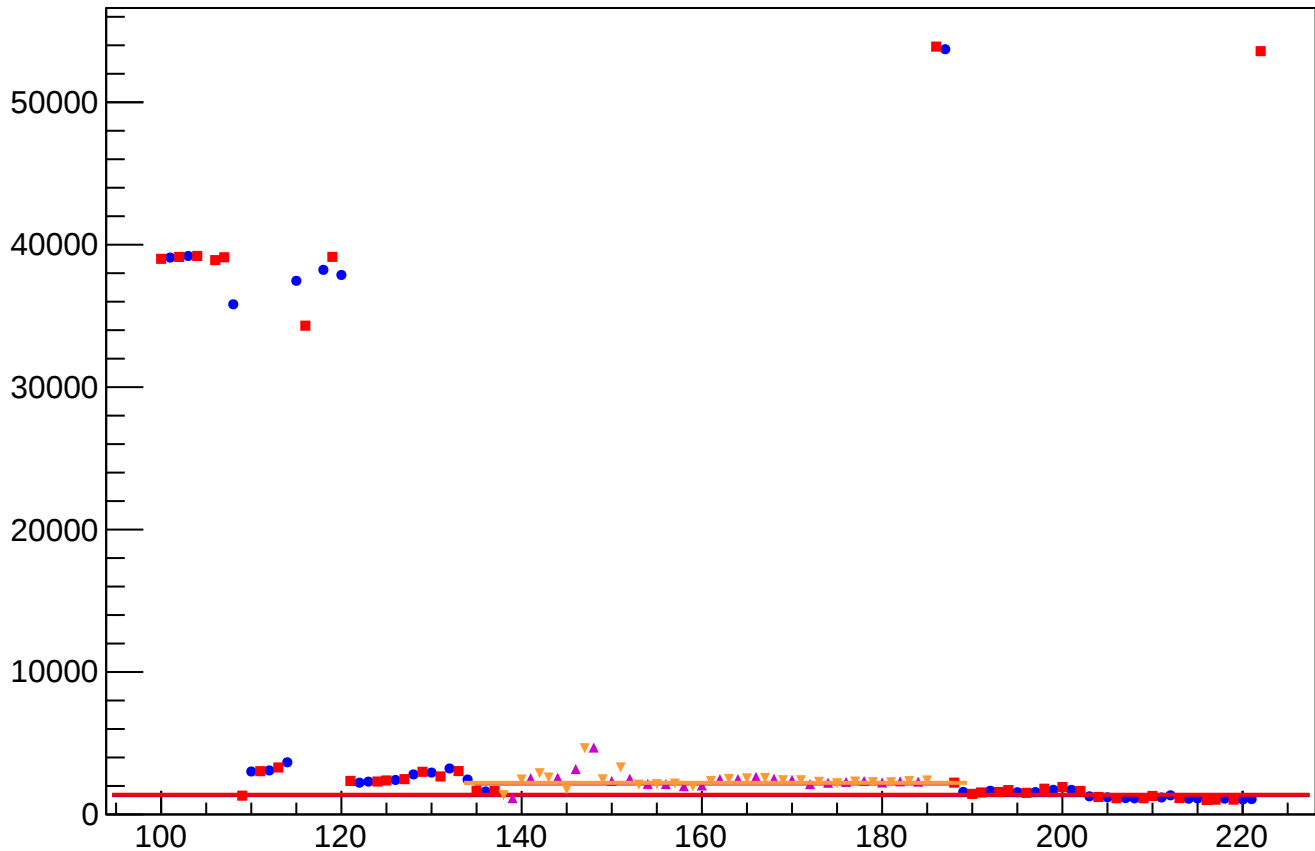
Right: 0.560 ± 0.250 χ^2/NDF : 142.3/72

In: -0.377 ± 0.291 χ^2/NDF : 67.6/57

Out: 0.782 ± 0.299 χ^2/NDF : 117.7/62

All: 0.187 ± 0.209 χ^2/NDF : 193.0/120

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1355.934 $\pm$ 0.244 χ^2 /NDF: 7623527.9/34

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

Right Out: 1384.433 $\pm$ 0.255 χ^2 /NDF: 9899405.8/37

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

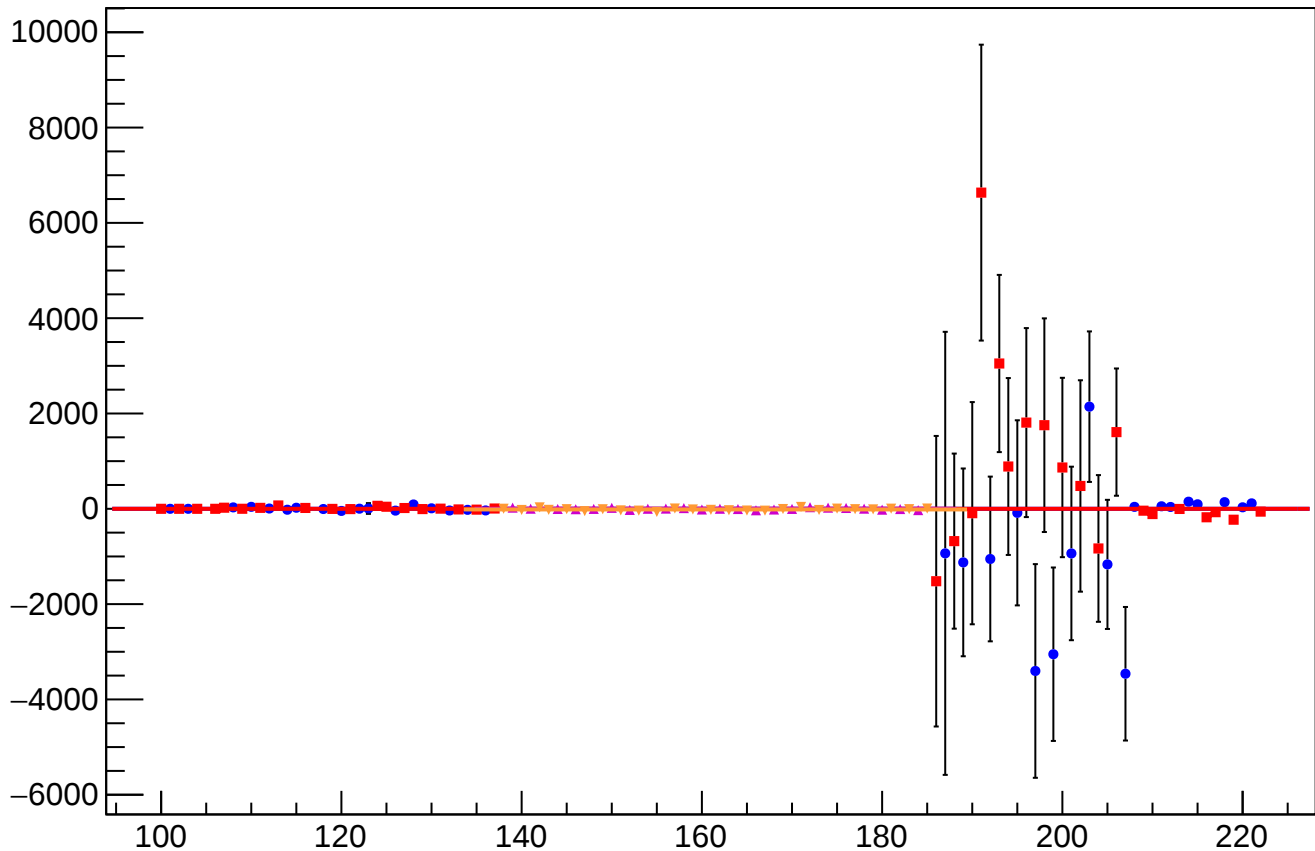
Right: 1369.548 $\pm$ 0.177 χ^2 /NDF: 17529434.1/72

In: 1591.479 $\pm$ 0.206 χ^2 /NDF:12808712.1/57

Out: 1646.738 $\pm$ 0.212 χ^2 /NDF:14688854.7/62

All: 1618.343 $\pm$ 0.148 χ^2 /NDF: 27532574.3/131

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 60.4/34

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

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 67.9/37

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

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

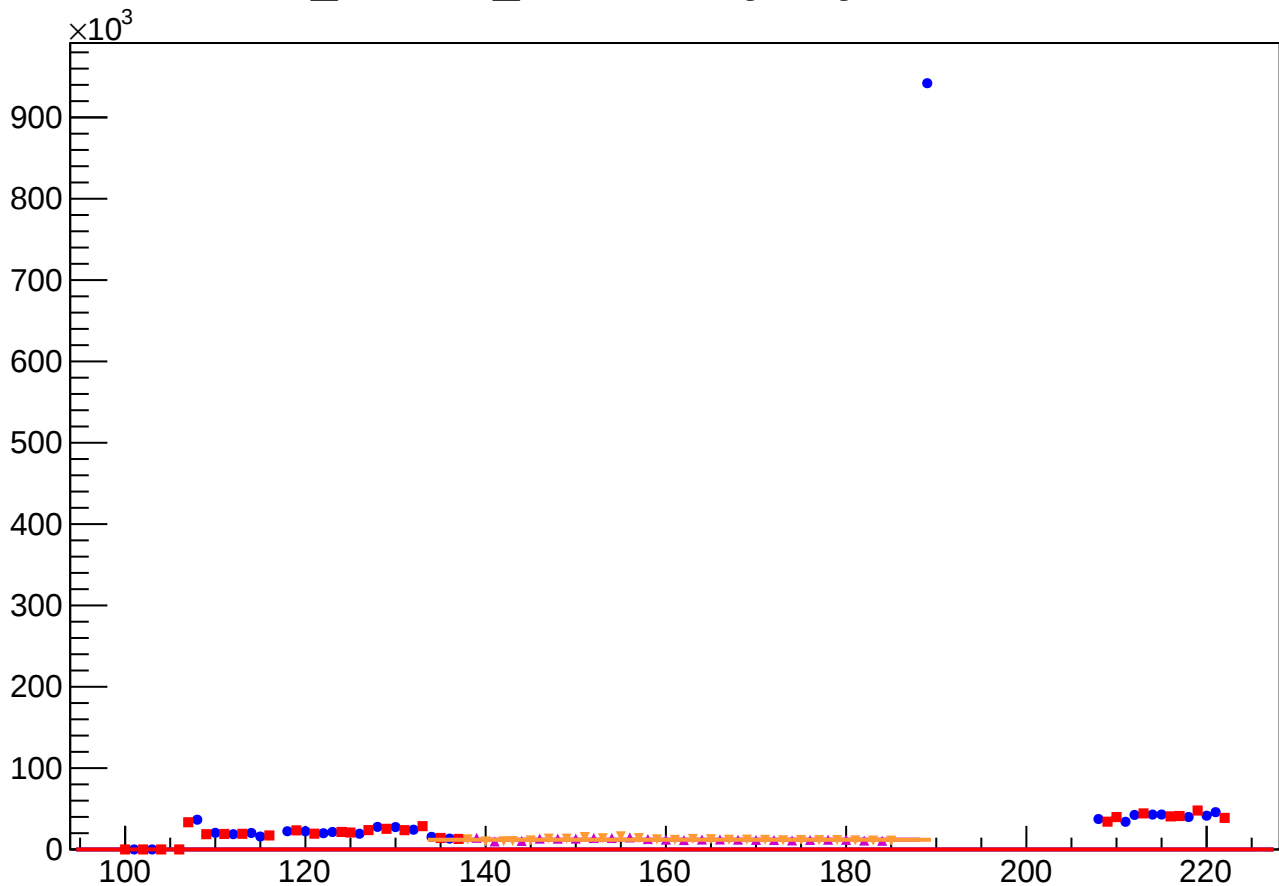
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 128.8/72

In: 0.013 $\pm$ 0.017 χ^2/NDF : 89.4/57

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 149.7/62

All: 0.004 $\pm$ 0.012 χ^2/NDF : 239.7/120

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.683+/-0.012 χ^2/NDF : 22197071.1/25

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

Right Out: 18.344+/-0.011 χ^2/NDF : 21488123.4/25

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

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

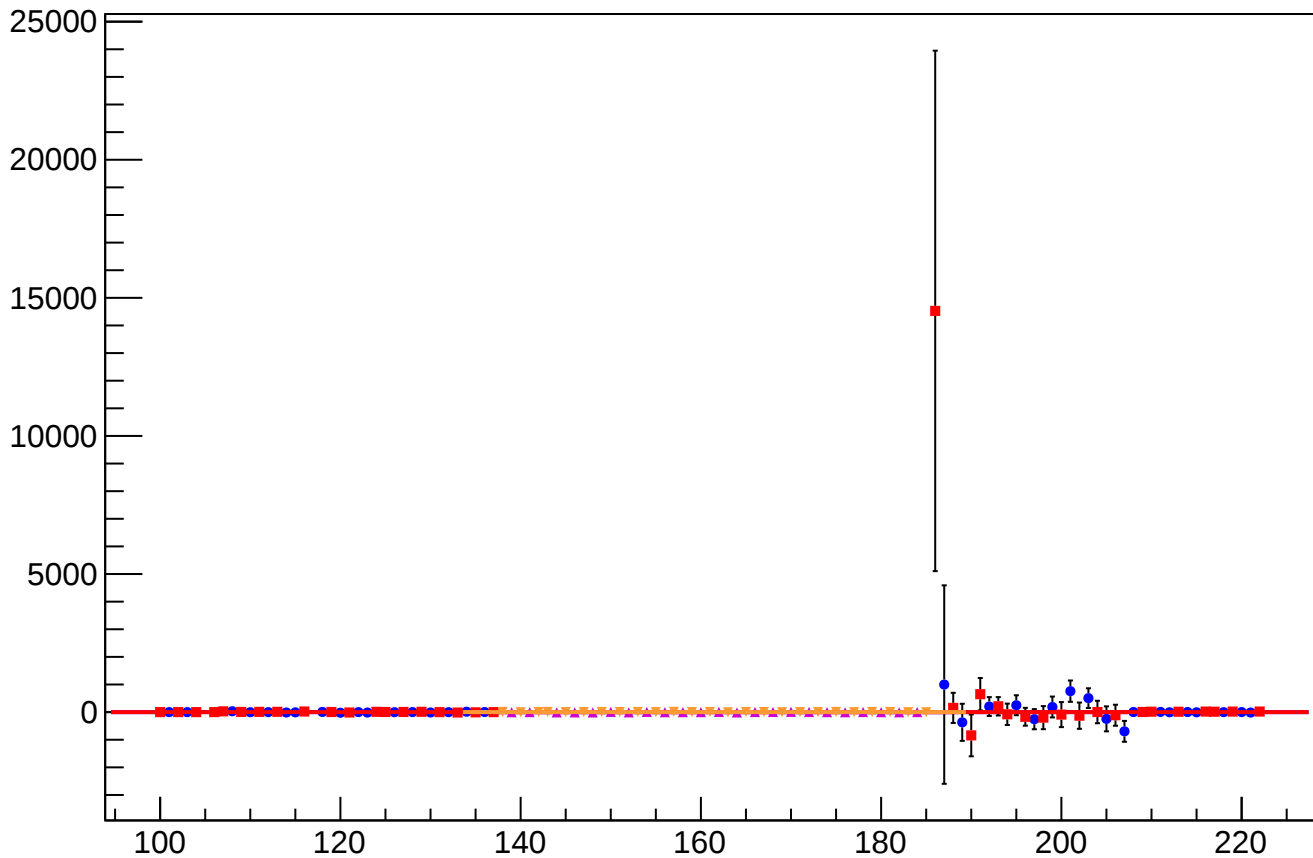
Right: 18.501+/-0.008 χ^2/NDF : 43685604.1/51

In: 19.108+/-0.012 χ^2/NDF : 56679156.0/48

Out: 18.736+/-0.011 χ^2/NDF : 58029768.3/50

All: 18.908+/-0.008 χ^2/NDF : 114709419.7/99

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 31.4/34

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

Right Out: -0.014 ± 0.009 χ^2/NDF : 71.5/37

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

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

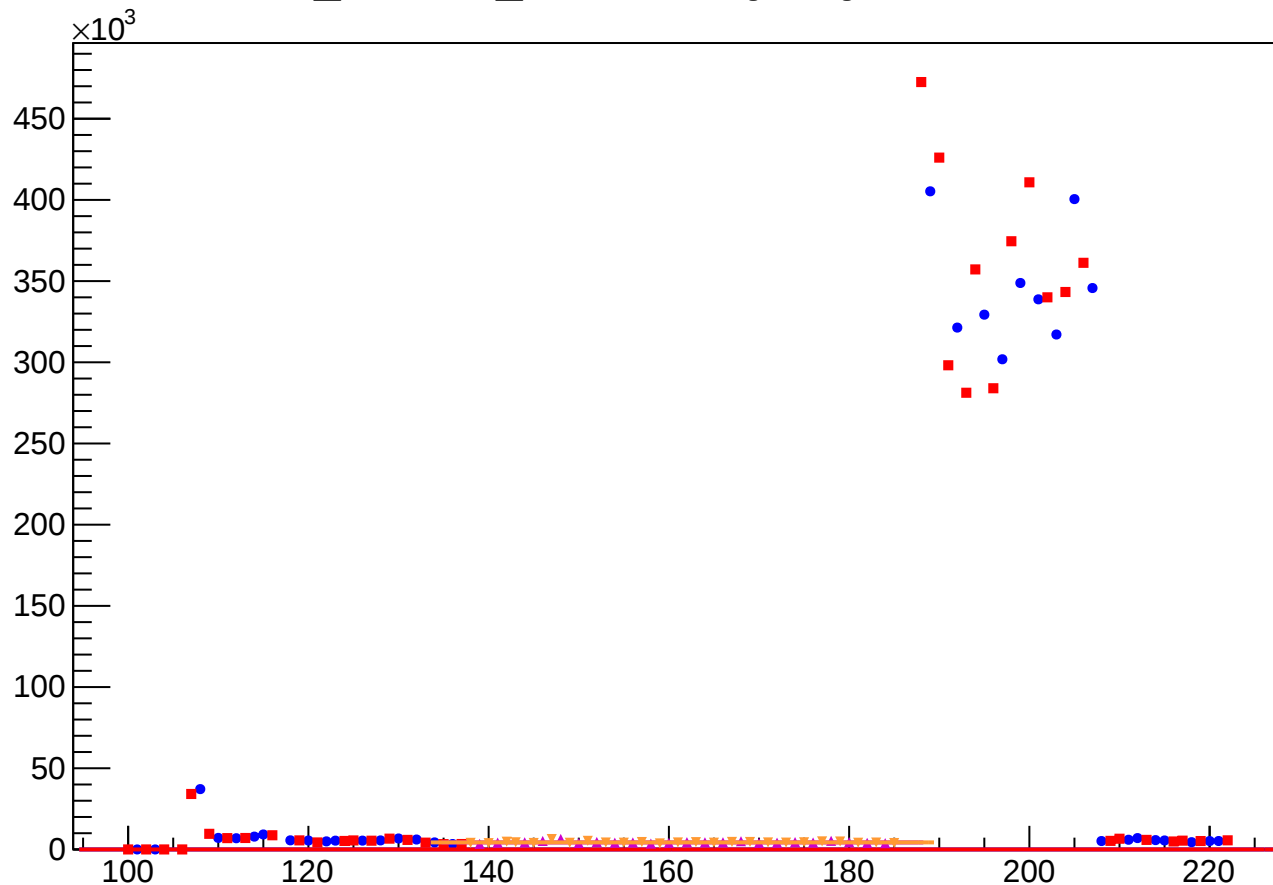
Right: -0.007 ± 0.006 χ^2/NDF : 104.2/72

In: 0.001 ± 0.009 χ^2/NDF : 67.8/57

Out: -0.014 ± 0.009 χ^2/NDF : 92.5/62

All: -0.007 ± 0.006 χ^2/NDF : 161.6/120

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.025 ± 0.007 $\chi^2/\text{NDF}: 35598284.9/33$

Left Out: 4349.005 ± 0.723 $\chi^2/\text{NDF}: 383895.7/24$

Right Out: 9.926 ± 0.006 $\chi^2/\text{NDF}: 36244301.9/36$

Left In: 4321.572 ± 0.741 $\chi^2/\text{NDF}: 514603.2/22$

Left: 4335.639 ± 0.518 $\chi^2/\text{NDF}: 899200.9/47$

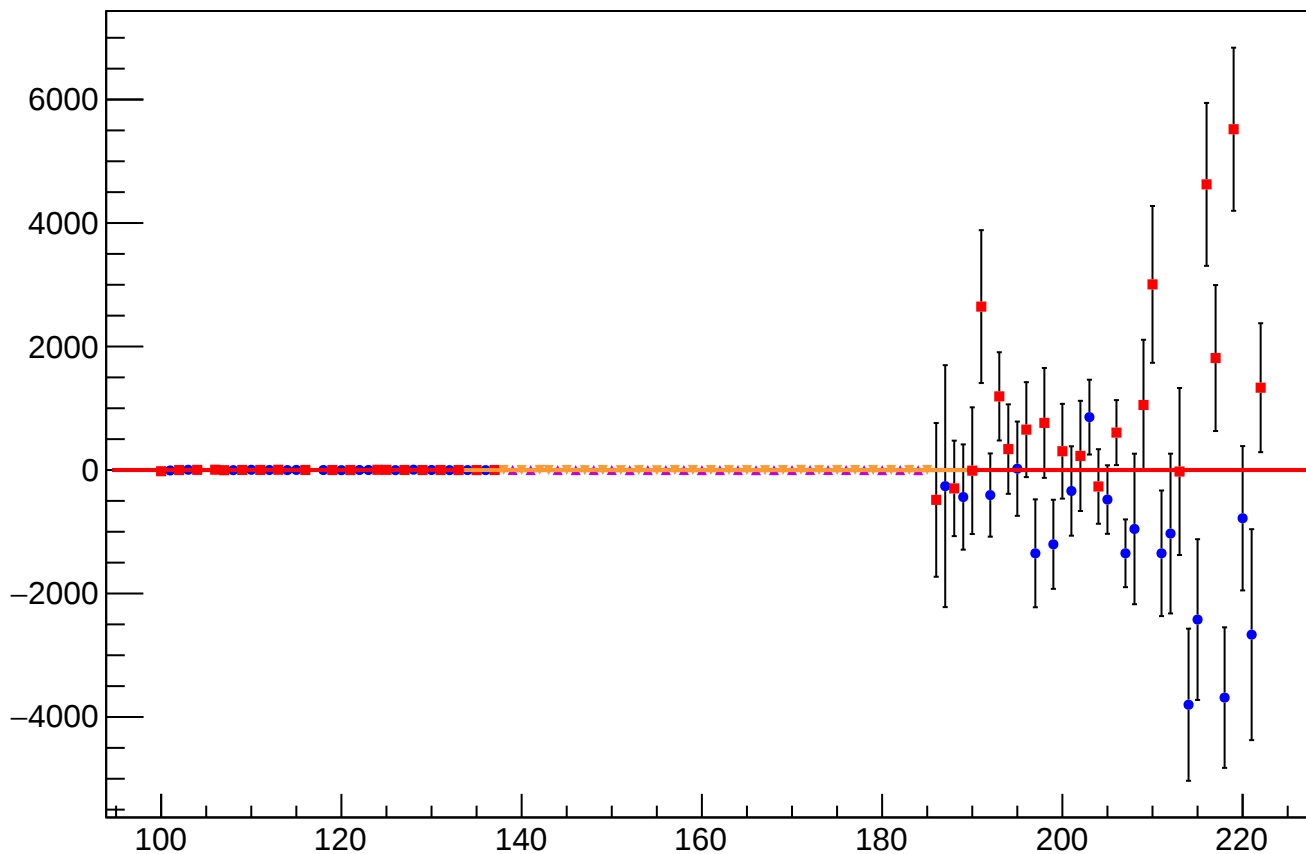
Right: 9.973 ± 0.004 $\chi^2/\text{NDF}: 71842711.0/70$

In: 10.357 ± 0.007 $\chi^2/\text{NDF}: 69928674.1/56$

Out: 10.237 ± 0.006 $\chi^2/\text{NDF}: 72672283.9/61$

All: 10.293 ± 0.004 $\chi^2/\text{NDF}: 142601140.9/11$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.483 χ^2/NDF : 66.8/34

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

Right Out: 0.643 ± 0.501 χ^2/NDF : 64.4/37

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

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

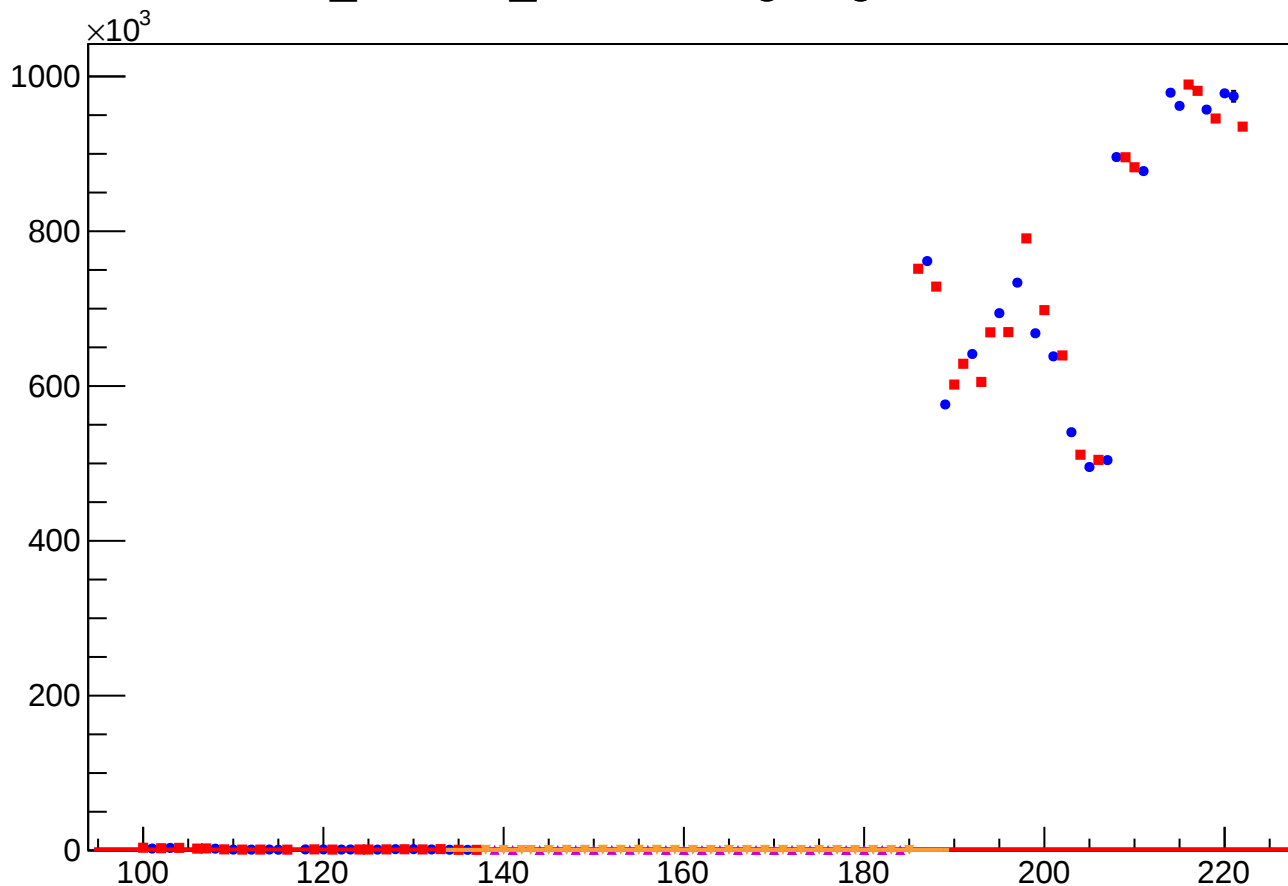
Right: -0.063 ± 0.348 χ^2/NDF : 135.1/72

In: -0.063 ± 0.161 χ^2/NDF : 98.4/57

Out: -0.637 ± 0.156 χ^2/NDF : 130.2/62

All: -0.359 ± 0.112 χ^2/NDF : 235.1/120

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.379 $\pm$ 0.342 χ^2 /NDF: 19736428.1/33

Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF: 392855.4/24

Right Out: 1251.513 $\pm$ 0.355 χ^2 /NDF: 20902746.8/36

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

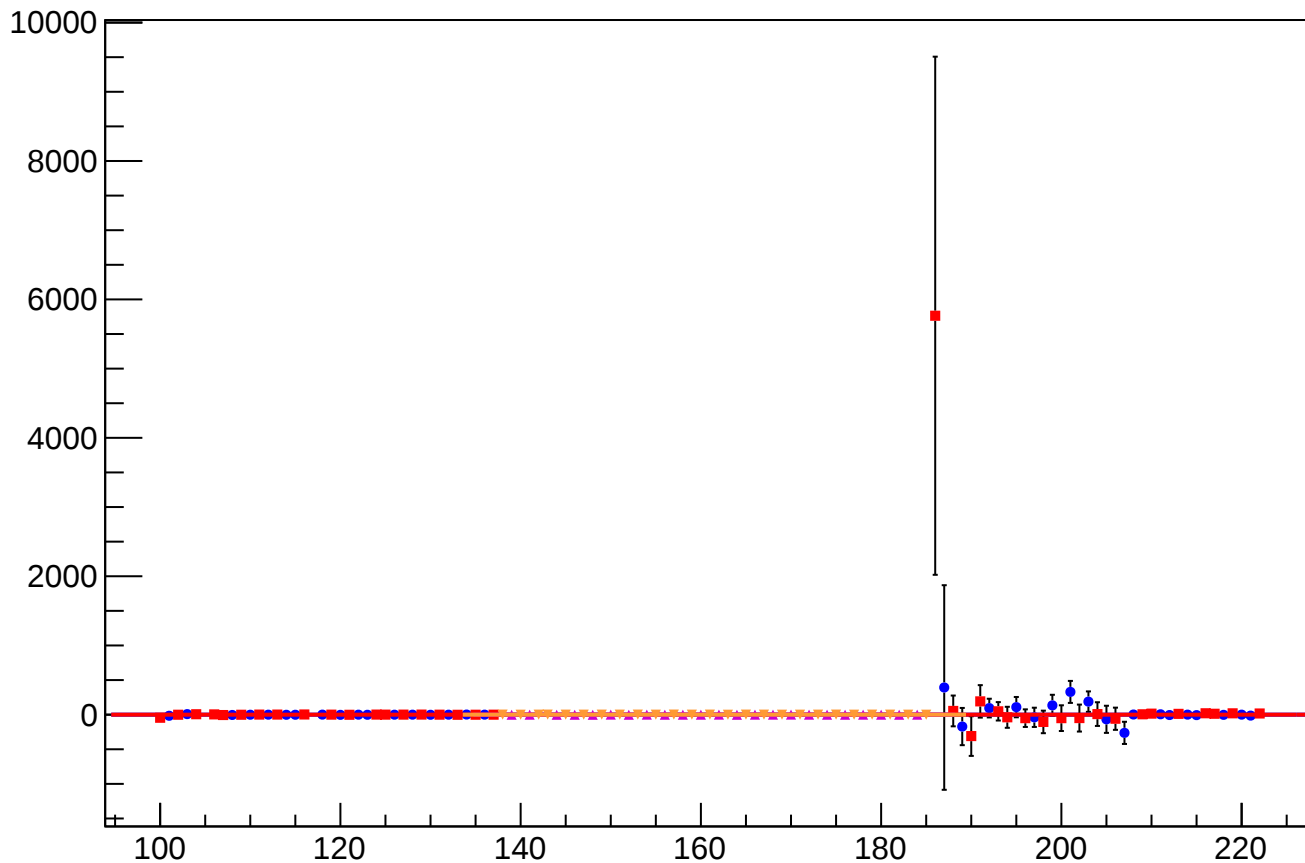
Right: 1209.434 $\pm$ 0.246 χ^2 /NDF: 40666326.8/70

In: 758.444 $\pm$ 0.114 χ^2 /NDF: 21704163.3/56

Out: 754.513 $\pm$ 0.111 χ^2 /NDF: 23471633.2/61

All: 756.421 $\pm$ 0.079 χ^2 /NDF: 45176410.2/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.096 ± 0.266 χ^2/NDF : 38.5/34

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

Right Out: -0.011 ± 0.262 χ^2/NDF : 90.0/37

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

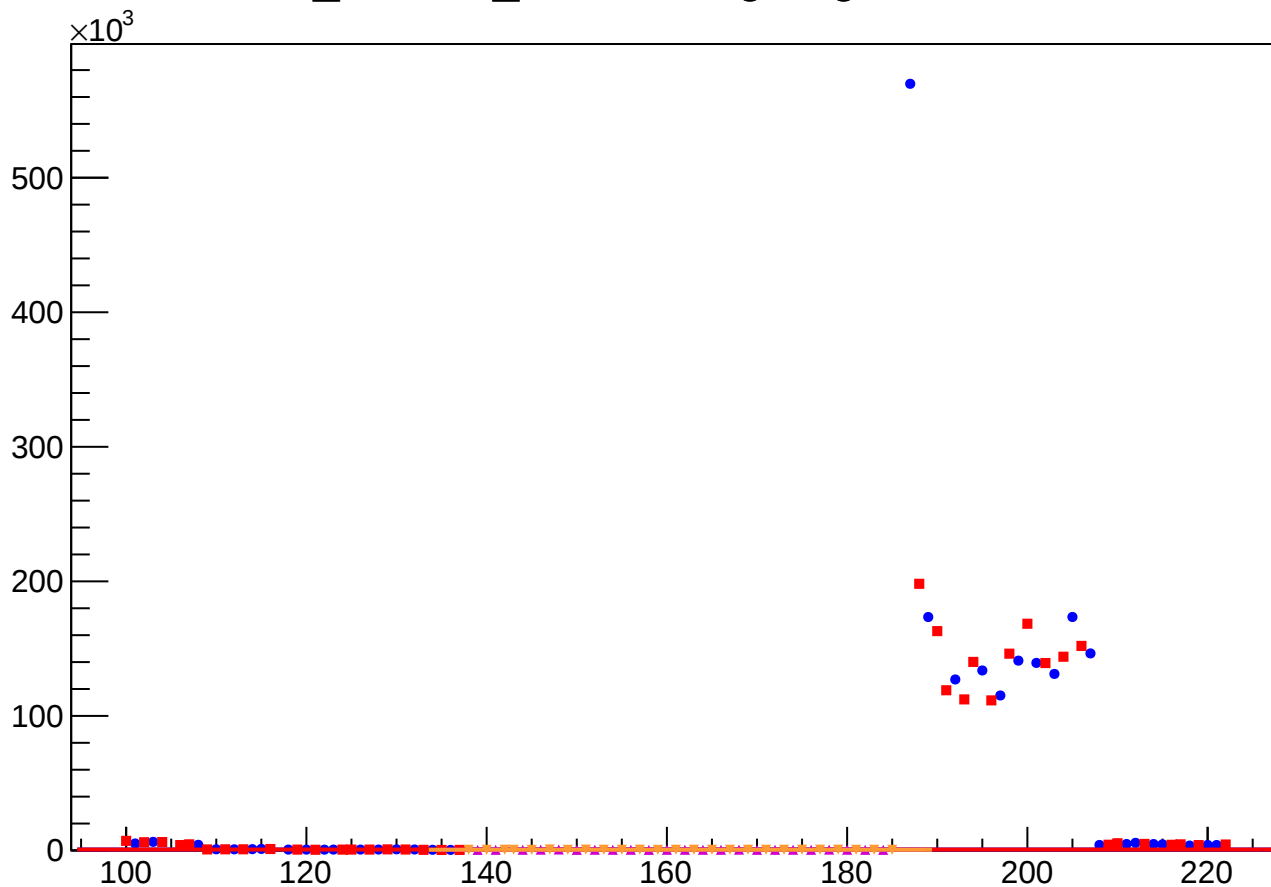
Right: -0.053 ± 0.187 χ^2/NDF : 128.6/72

In: -0.120 ± 0.114 χ^2/NDF : 73.5/57

Out: 0.189 ± 0.111 χ^2/NDF : 108.7/62

All: 0.039 ± 0.080 χ^2/NDF : 186.0/120

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 688.854+/-0.188 χ^2/NDF : 24977996.9/34

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

Right Out: 671.300+/-0.185 χ^2/NDF : 25985931.0/36

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

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

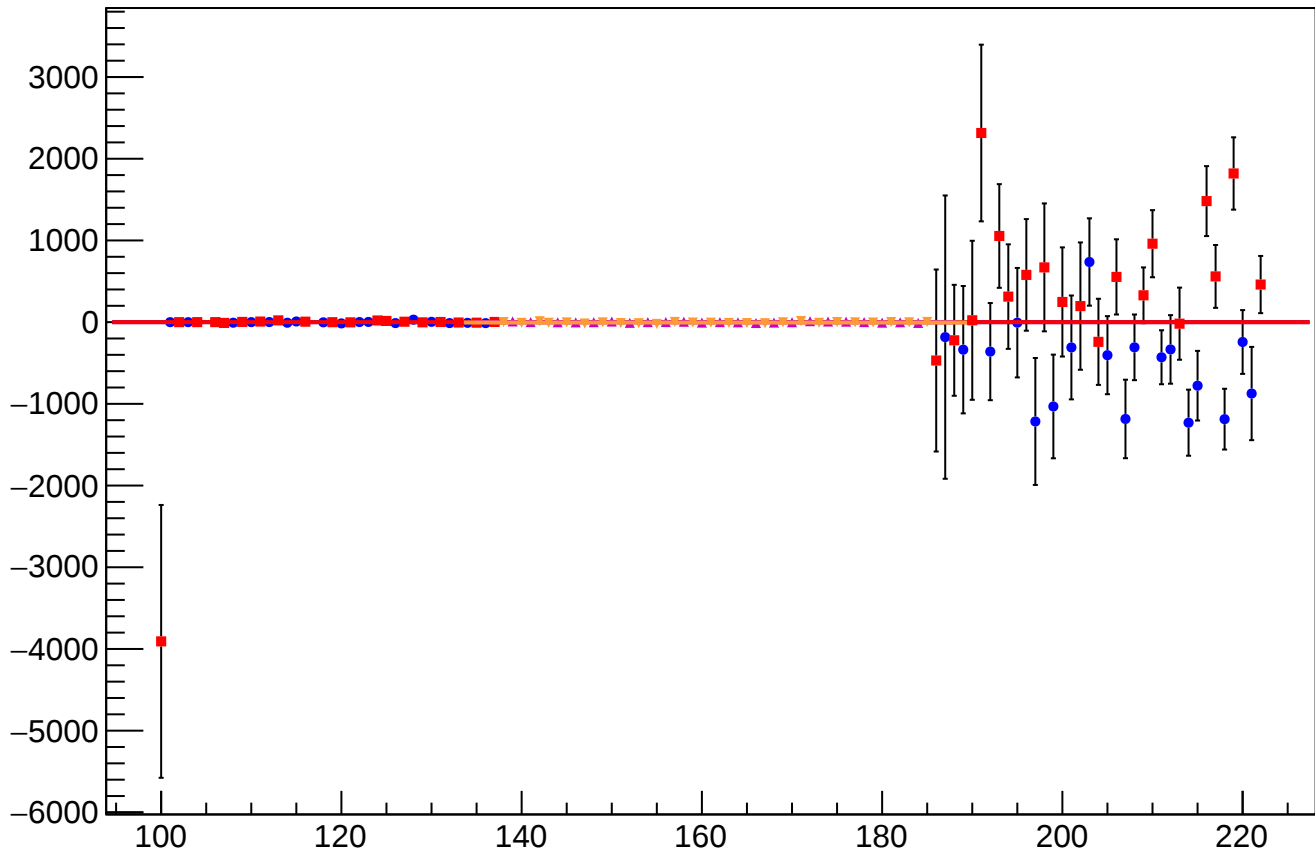
Right: 679.938+/-0.132 χ^2/NDF : 50968344.5/71

In: 551.529+/-0.081 χ^2/NDF : 26057302.7/57

Out: 548.995+/-0.079 χ^2/NDF : 26847429.8/61

All: 550.229+/-0.056 χ^2/NDF : 52905239.6/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 59.0/34

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 67.7/37

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

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

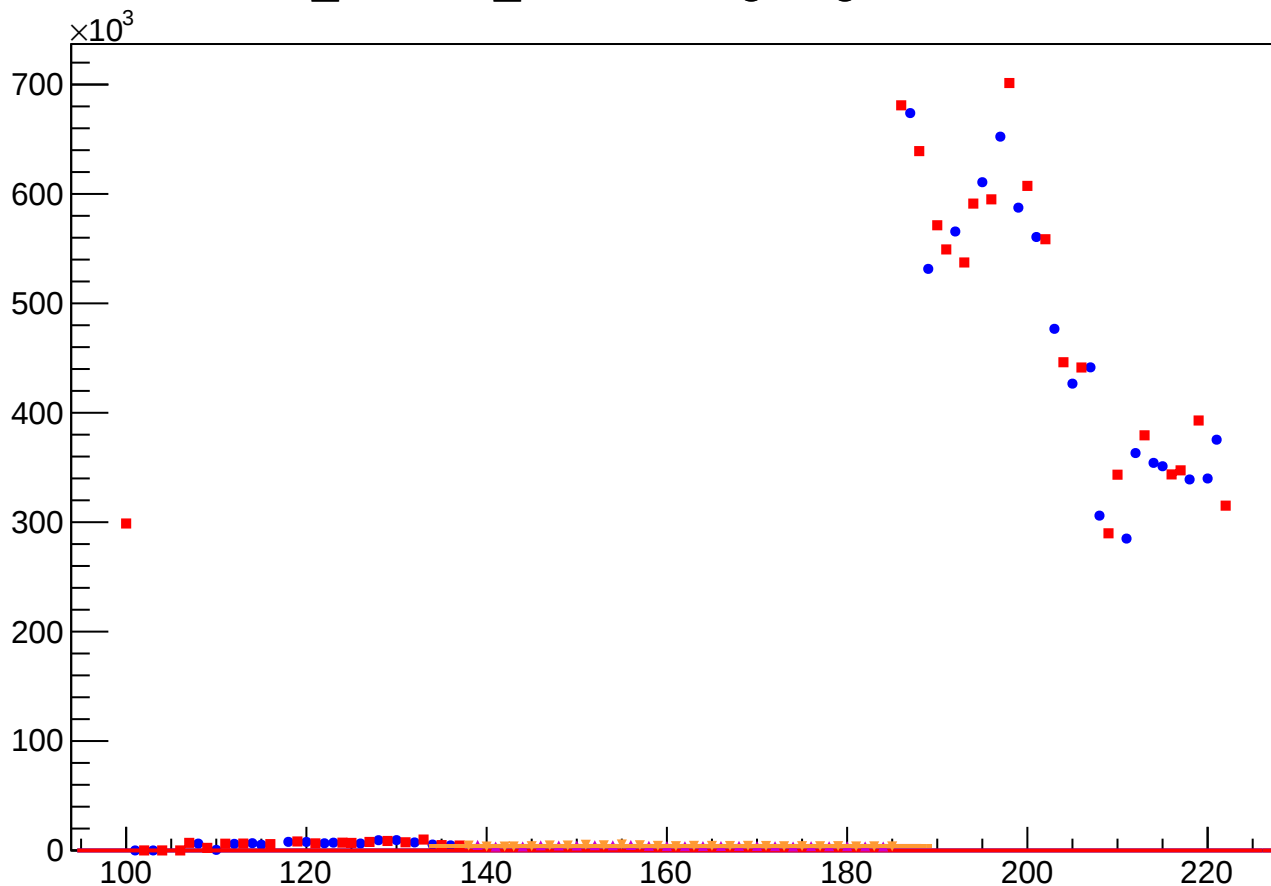
Right: 0.004 ± 0.014 χ^2/NDF : 129.6/72

In: -0.022 ± 0.021 χ^2/NDF : 88.5/57

Out: 0.025 ± 0.020 χ^2/NDF : 148.3/62

All: 0.003 ± 0.014 χ^2/NDF : 239.4/120

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.352+/-0.015 χ^2/NDF : 35801206.7/34

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

Right Out: 17.279+/-0.014 χ^2/NDF : 37123907.4/37

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

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

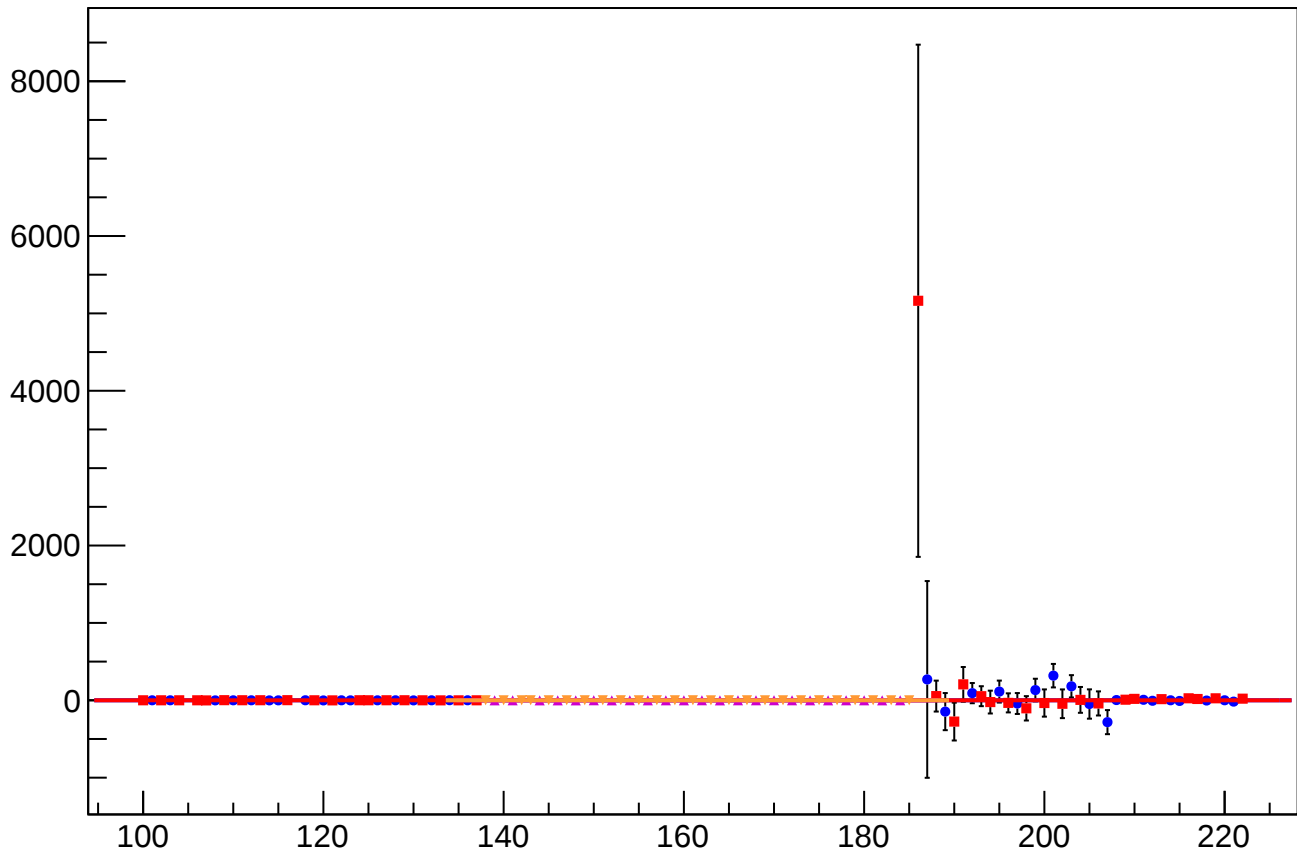
Right: 17.314+/-0.010 χ^2/NDF : 72925127.1/72

In: 19.144+/-0.015 χ^2/NDF : 70103528.8/57

Out: 19.011+/-0.014 χ^2/NDF : 73476761.9/62

All: 19.074+/-0.010 χ^2/NDF : 143580333.8/12

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.002 χ^2/NDF : 33.9/34

Left Out: 0.148+/-0.076 χ^2/NDF : 17.3/24

Right Out: -0.001+/-0.002 χ^2/NDF : 91.5/37

Left In: -0.080+/-0.079 χ^2/NDF : 34.6/22

Left: 0.038+/-0.055 χ^2/NDF : 56.3/47

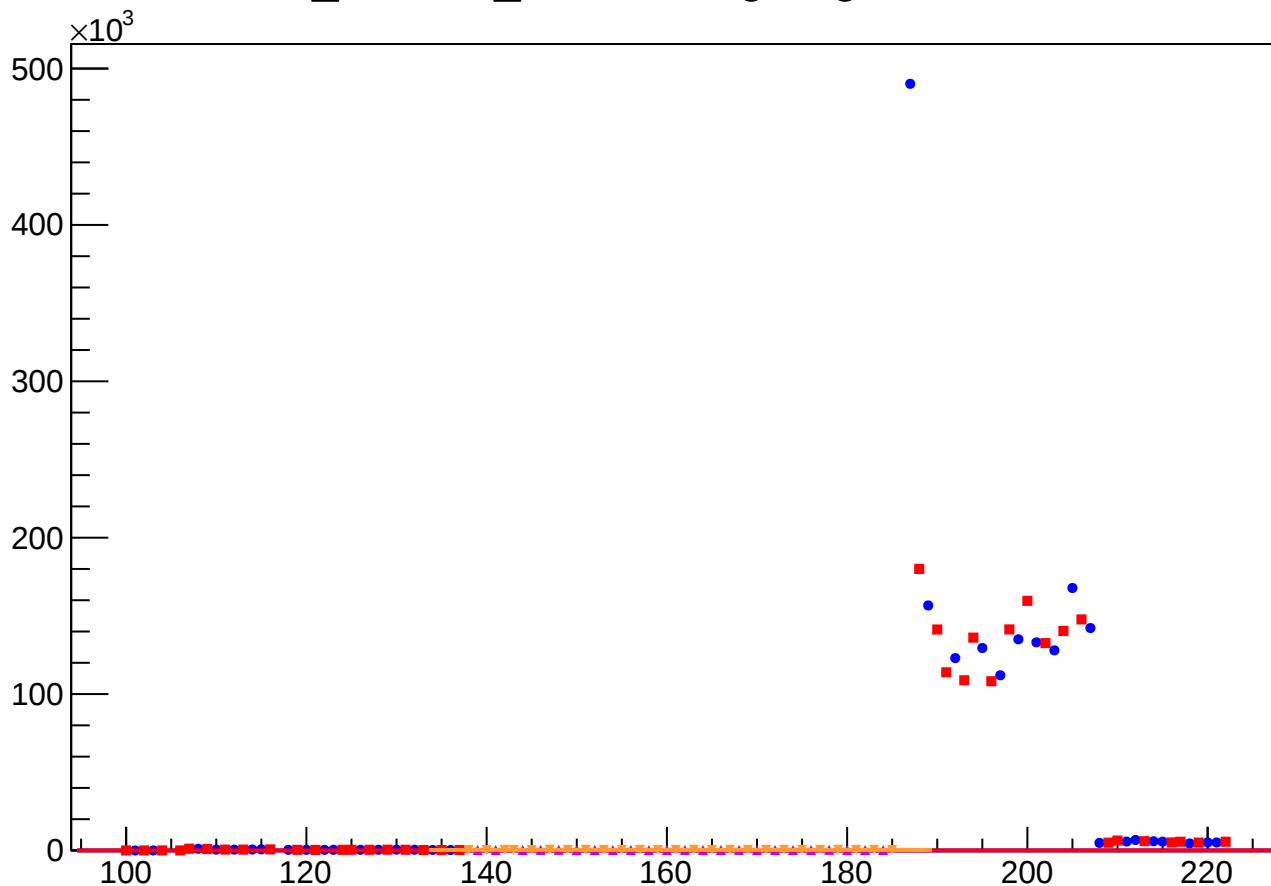
Right: -0.000+/-0.001 χ^2/NDF : 125.5/72

In: 0.000+/-0.002 χ^2/NDF : 69.5/57

Out: -0.001+/-0.002 χ^2/NDF : 112.6/62

All: -0.000+/-0.001 χ^2/NDF : 182.3/120

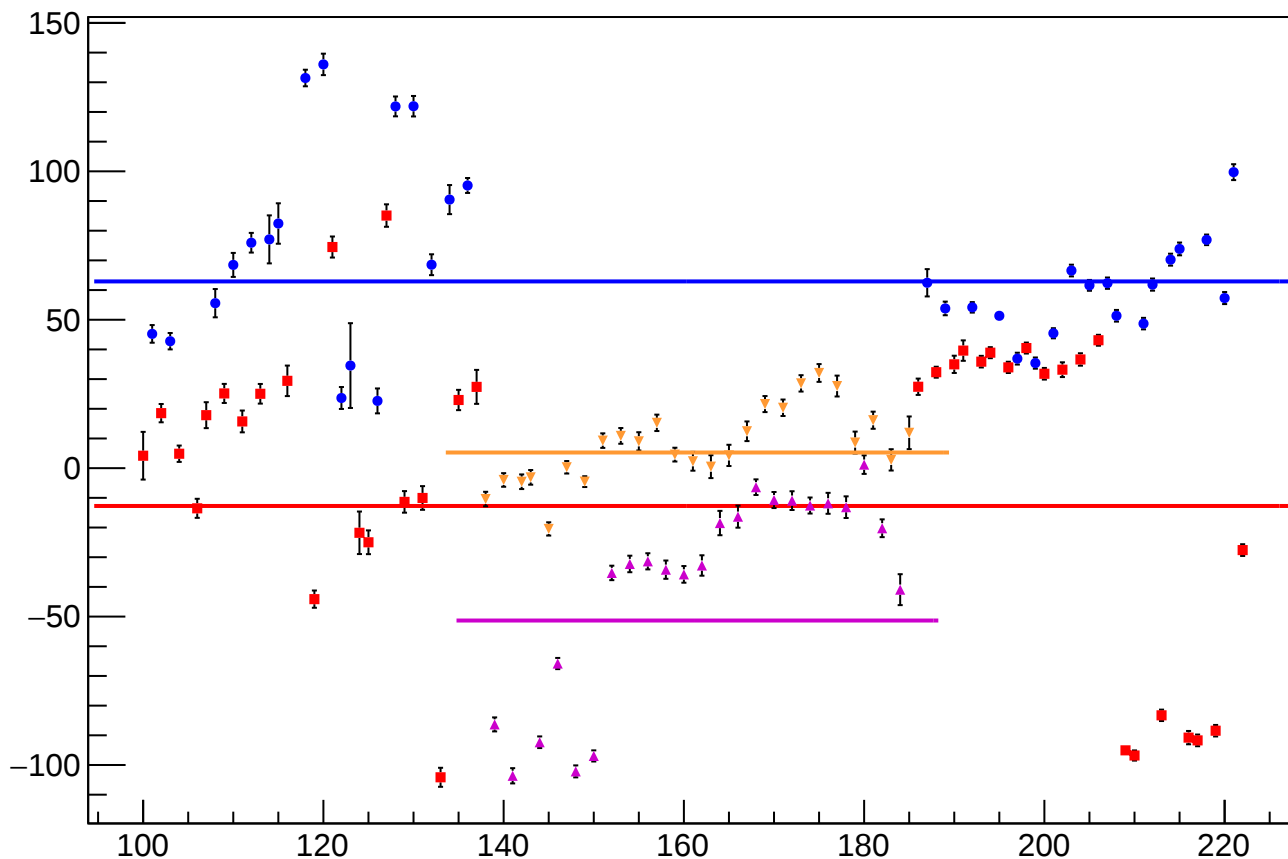
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.703 $\pm$ 0.001 χ^2/NDF : 36000877.9/34
 Left Out: 325.326 $\pm$ 0.054 χ^2/NDF : 347705.2/24
 Right Out: 1.732 $\pm$ 0.001 χ^2/NDF : 36052798.9/36
 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: 1.718 $\pm$ 0.001 χ^2/NDF : 72053884.6/71
 In: 1.917 $\pm$ 0.001 χ^2/NDF : 70142121.8/57
 Out: 1.940 $\pm$ 0.001 χ^2/NDF : 72259497.6/61
 All: 1.929 $\pm$ 0.001 χ^2/NDF : 142401758.3/119

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 62.913 ± 0.415 $\chi^2/\text{NDF}: 3108.1/34$

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

Right Out: -12.737 ± 0.400 $\chi^2/\text{NDF}: 21474.2/37$

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

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

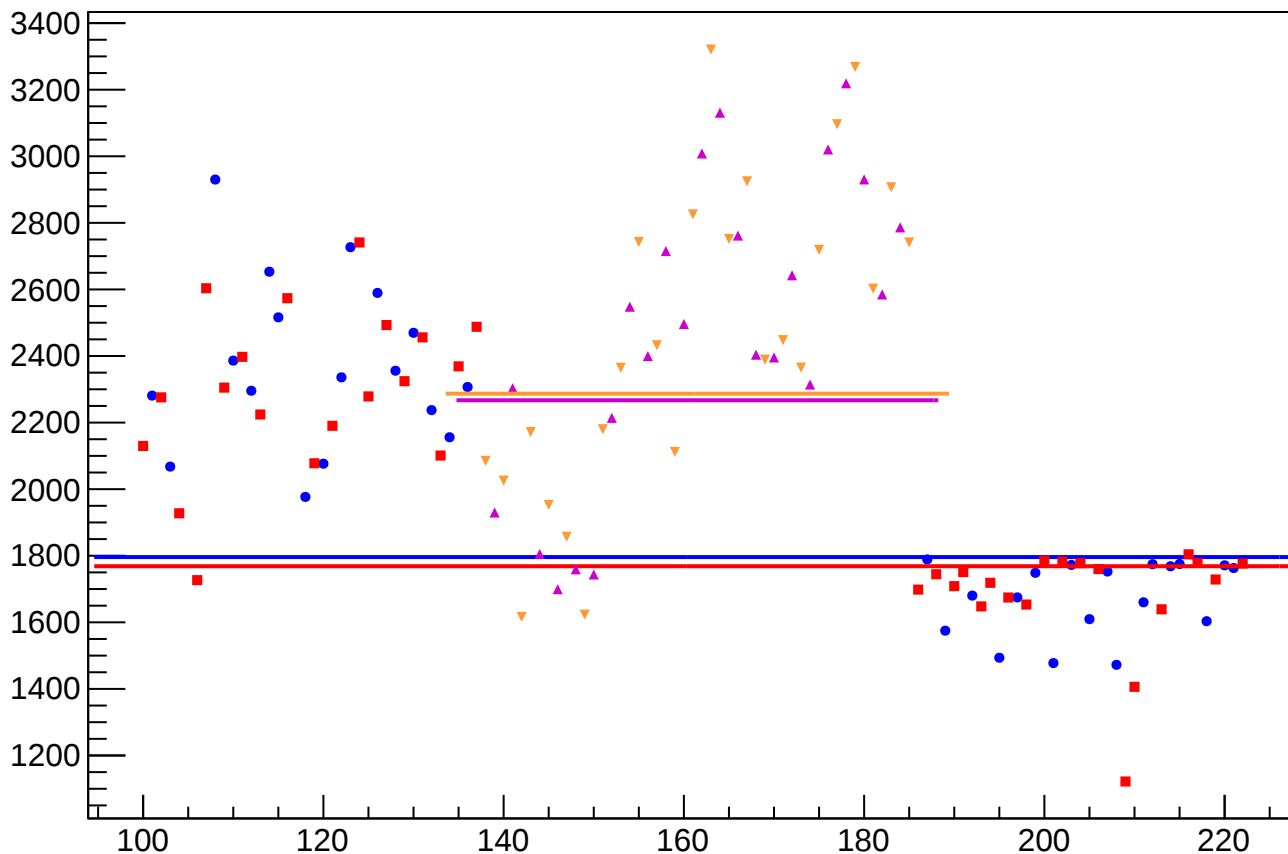
Right: 23.680 ± 0.288 $\chi^2/\text{NDF}: 41838.2/72$

In: 22.294 ± 0.333 $\chi^2/\text{NDF}: 34344.2/57$

Out: -6.428 ± 0.322 $\chi^2/\text{NDF}: 22742.3/62$

All: 7.457 ± 0.231 $\chi^2/\text{NDF}: 60931.0/120$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1796.032 $\pm$ 0.293

χ^2 /NDF: 1000473.0/34

Left Out: 2286.871 $\pm$ 0.385

χ^2 /NDF:1360490.8/24

Right Out: 1768.537 $\pm$ 0.283

χ^2 /NDF: 1358649.2/37

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

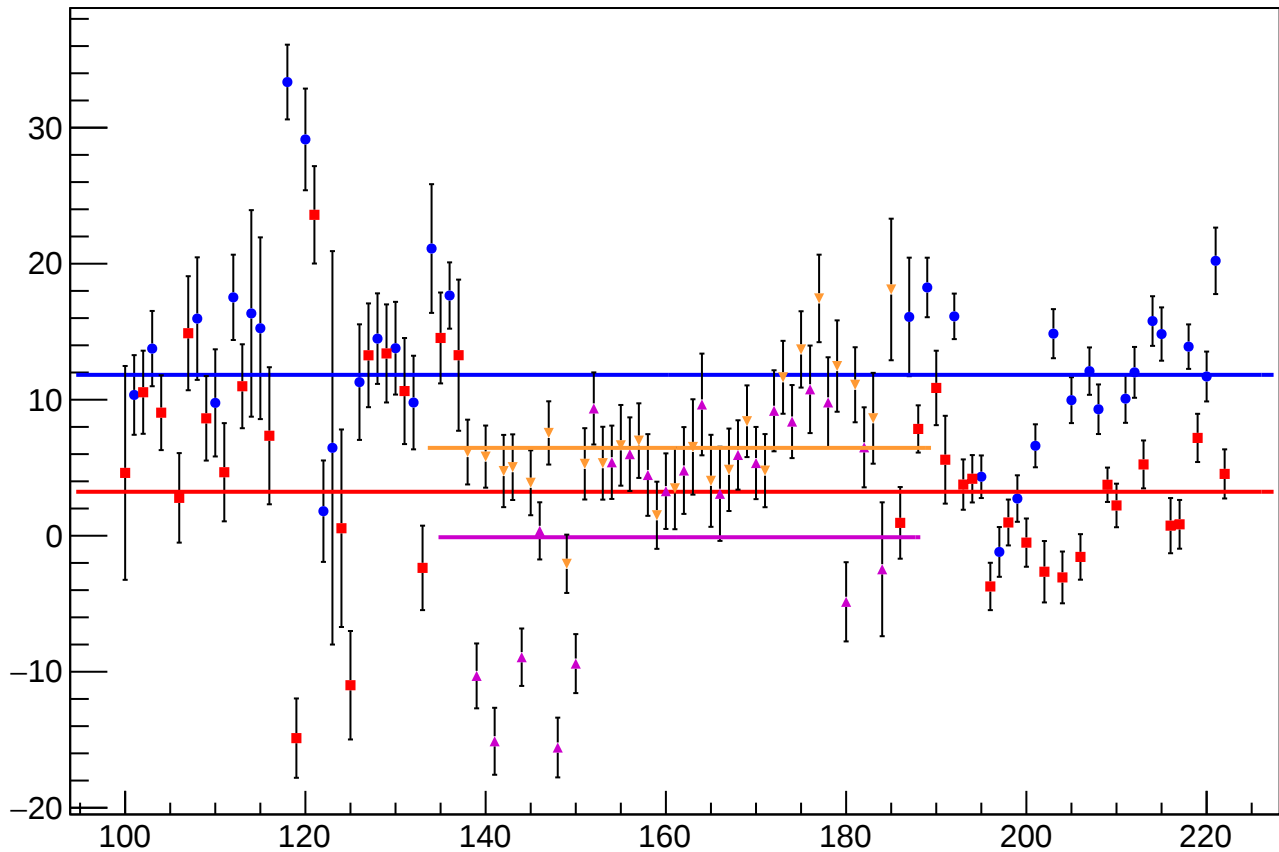
Right: 1781.773 $\pm$ 0.203 χ^2 /NDF: 2363681.1/72

In: 1963.521 $\pm$ 0.235 χ^2 /NDF:3231240.3/57

Out: 1950.102 $\pm$ 0.228 χ^2 /NDF:3898085.6/62

All: 1956.589 $\pm$ 0.164 χ^2 /NDF: 7131004.3/12

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.828 ± 0.387 $\chi^2/\text{NDF}: 263.2/34$

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

Right Out: 3.232 ± 0.375 $\chi^2/\text{NDF}: 223.7/37$

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

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

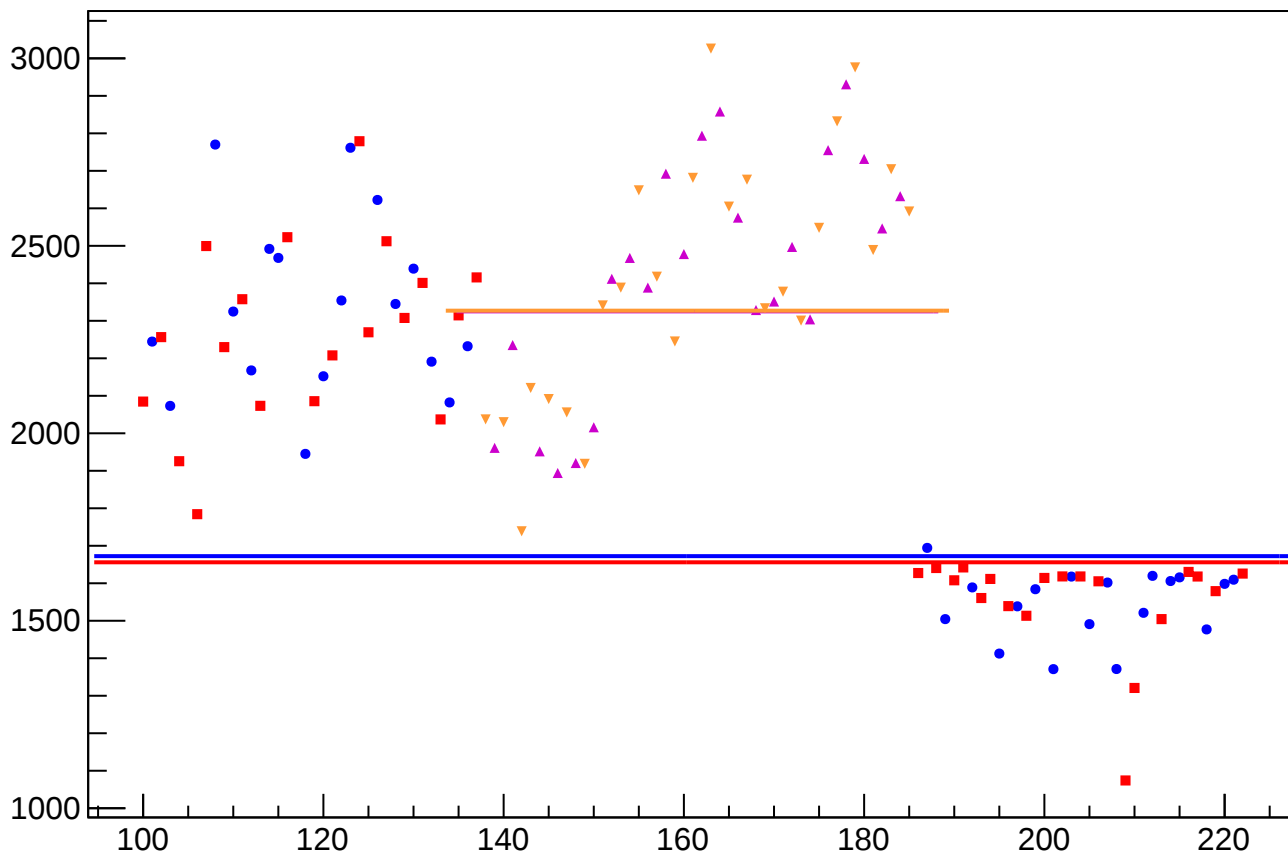
Right: 7.391 ± 0.269 $\chi^2/\text{NDF}: 741.3/72$

In: 8.015 ± 0.319 $\chi^2/\text{NDF}: 801.5/57$

Out: 4.262 ± 0.309 $\chi^2/\text{NDF}: 306.1/62$

All: 6.078 ± 0.222 $\chi^2/\text{NDF}: 1178.8/120$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1672.356+/-0.274

χ^2/NDF : 1270095.8/34

Left Out: 2327.044+/-0.387

χ^2/NDF : 646706.7/24

Right Out: 1655.929+/-0.265

χ^2/NDF : 1563717.2/37

Left In: 2325.175+/-0.400

χ^2/NDF : 610729.2/22

Left: 2326.139+/-0.278

χ^2/NDF : 1257447.2/47

Right: 1663.877+/-0.190

χ^2/NDF : 2835671.4/72

In: 1880.861+/-0.226

χ^2/NDF : 3697077.9/57

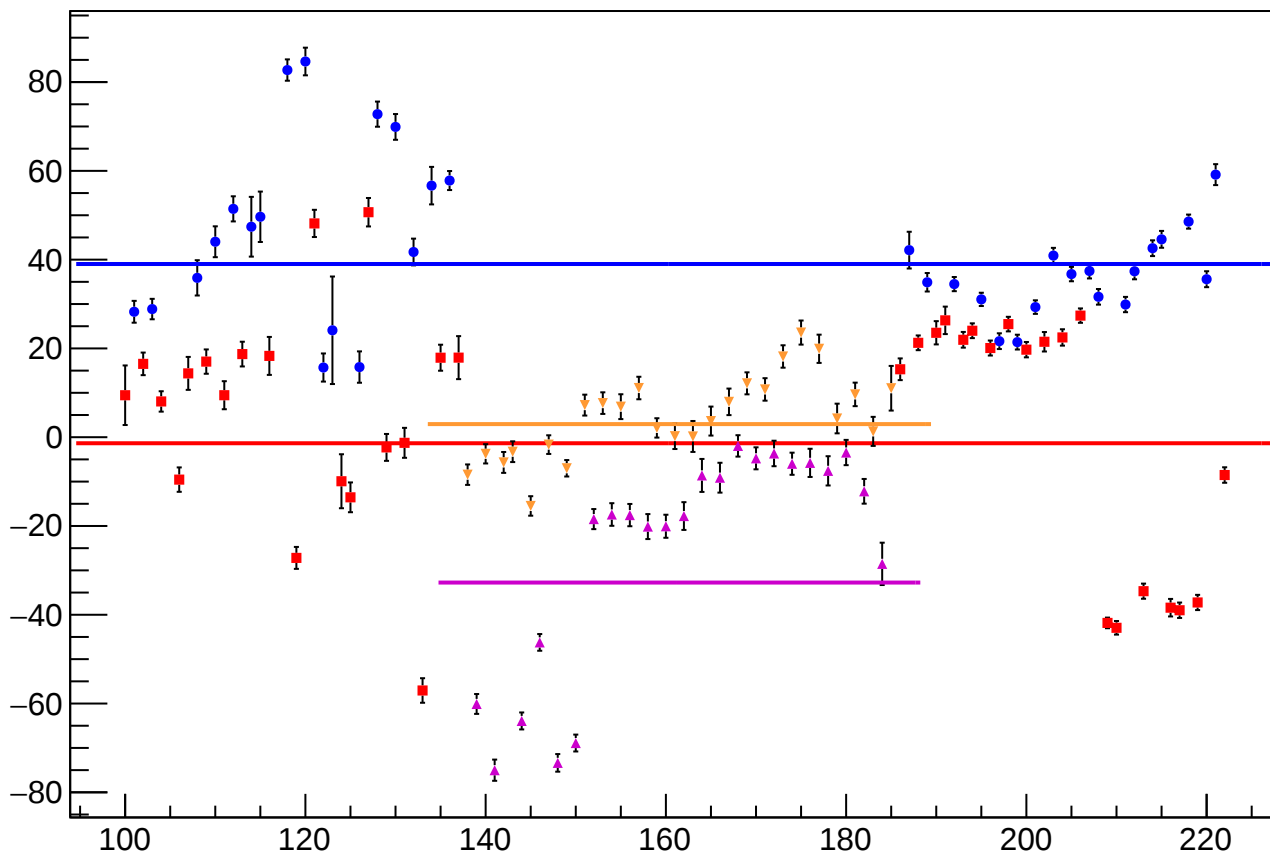
Out: 1870.096+/-0.219

χ^2/NDF : 4256075.3/62

All: 1875.306+/-0.157

χ^2/NDF : 7954325.6/12

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 39.016 ± 0.365 $\chi^2/\text{NDF}: 1523.9/34$

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

Right Out: -1.361 ± 0.352 $\chi^2/\text{NDF}: 6847.0/37$

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

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

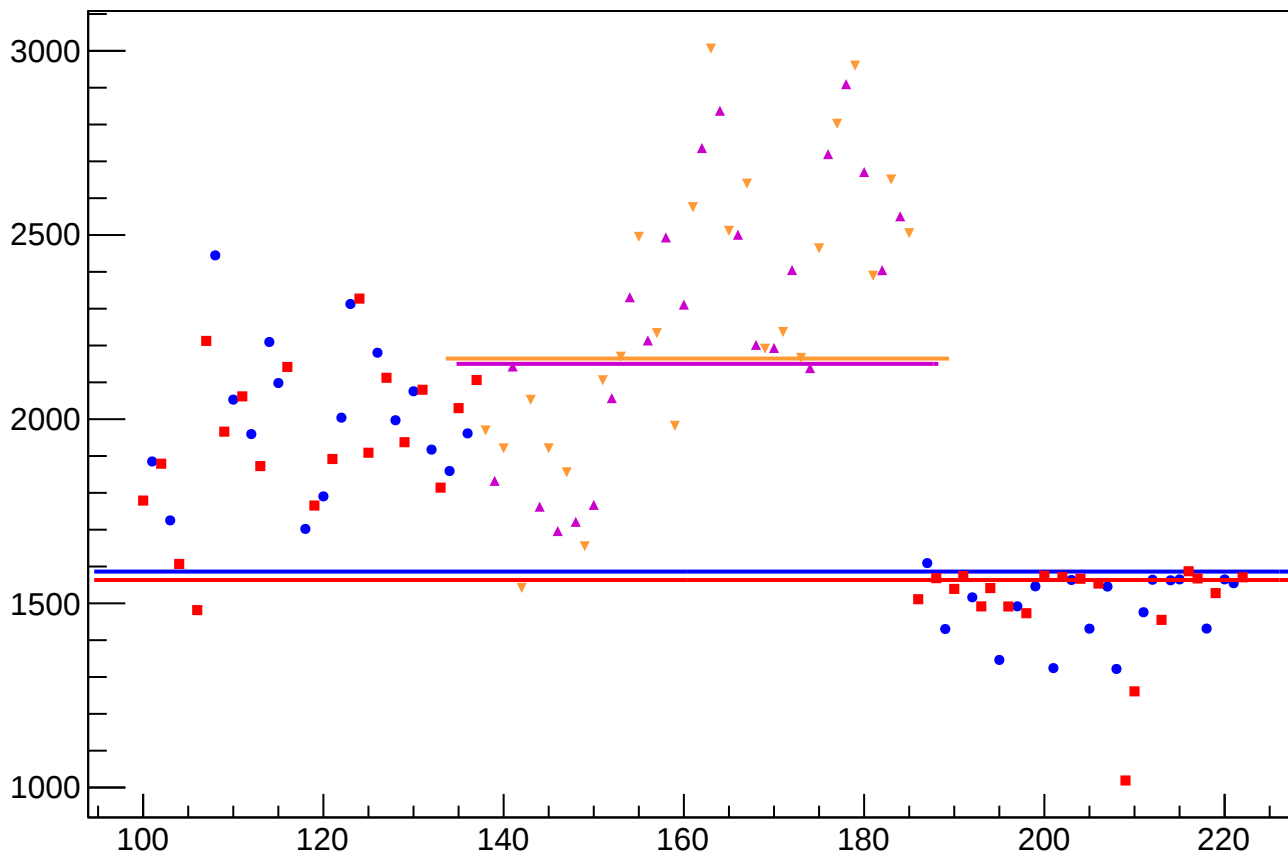
Right: 18.094 ± 0.253 $\chi^2/\text{NDF}: 14716.4/72$

In: 15.711 ± 0.300 $\chi^2/\text{NDF}: 16718.6/57$

Out: 0.022 ± 0.290 $\chi^2/\text{NDF}: 7233.0/62$

All: 7.604 ± 0.208 $\chi^2/\text{NDF}: 25366.3/120$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1586.260 ± 0.258 $\chi^2/\text{NDF}: 764850.6/34$

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

Right Out: 1563.384 ± 0.249 $\chi^2/\text{NDF}: 1082030.5/37$

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

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

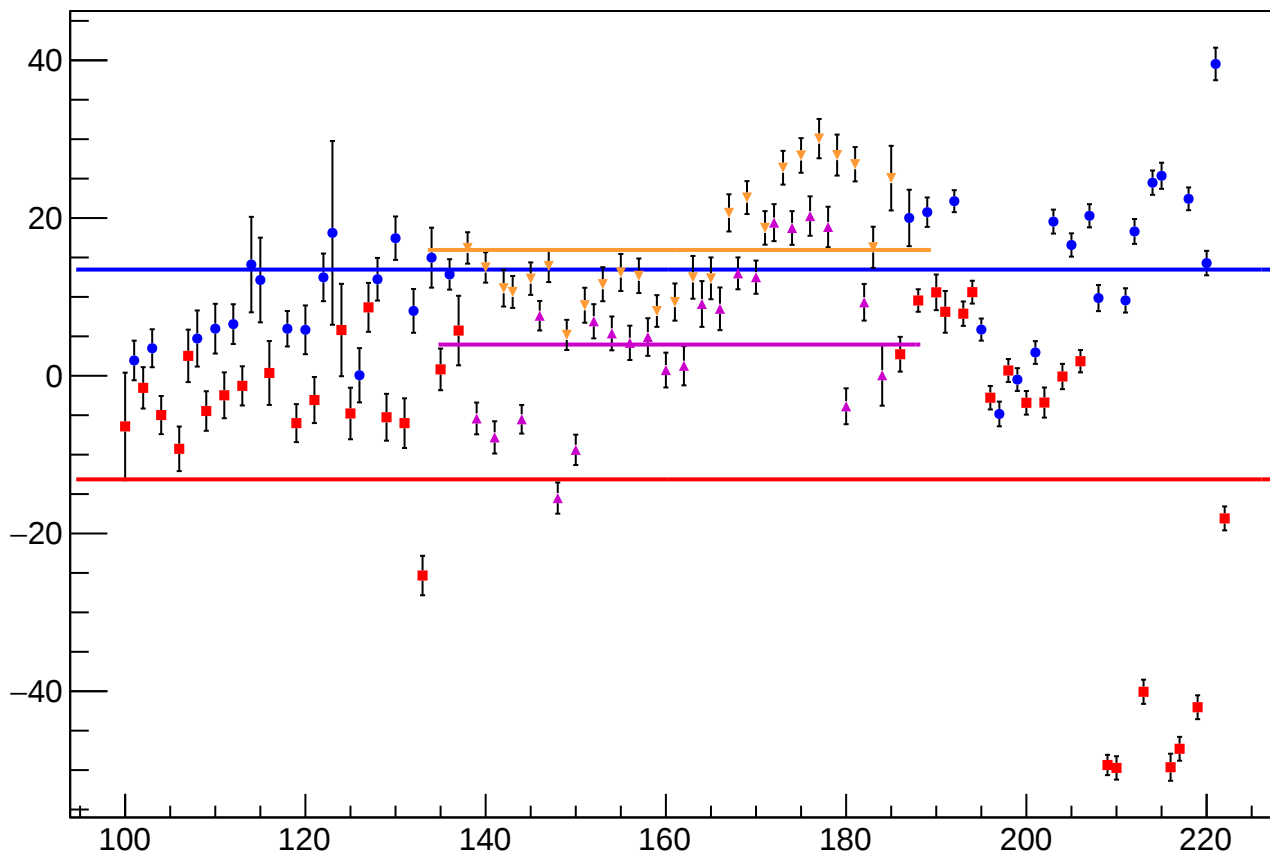
Right: 1574.406 ± 0.179 $\chi^2/\text{NDF}: 1850954.8/72$

In: 1769.404 ± 0.212 $\chi^2/\text{NDF}: 3228245.3/57$

Out: 1756.265 ± 0.205 $\chi^2/\text{NDF}: 3920975.3/62$

All: 1762.615 ± 0.147 $\chi^2/\text{NDF}: 7151205.2/12$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 13.466 $\pm$ 0.330 χ^2 /NDF: 829.5/34

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

Right Out: -13.134 $\pm$ 0.321 χ^2 /NDF: 4647.1/37

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

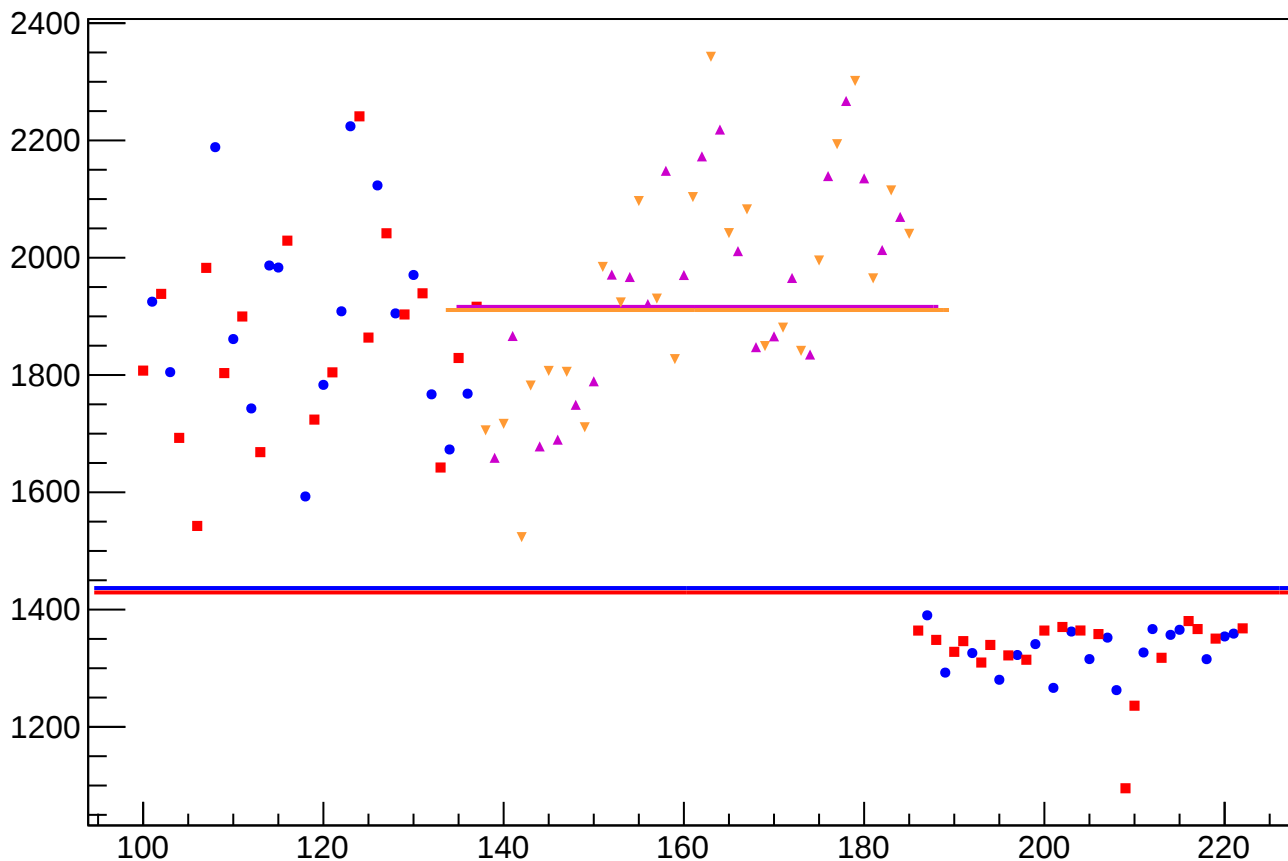
Right: -0.218 $\pm$ 0.230 χ^2 /NDF: 8818.7/72

In: 10.262 $\pm$ 0.269 χ^2 /NDF:1574.0/57

Out: -3.264 $\pm$ 0.261 χ^2 /NDF:7685.3/62

All: 3.293 $\pm$ 0.187 χ^2 /NDF: 10565.0/120

diff_bpm0i01aY_rms vs Slugg, Sign Corrected



Right In: 1436.747 $\pm$ 0.233 χ^2/NDF : 907034.6/34

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

Right Out: 1429.223 $\pm$ 0.227 χ^2/NDF : 989439.7/37

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

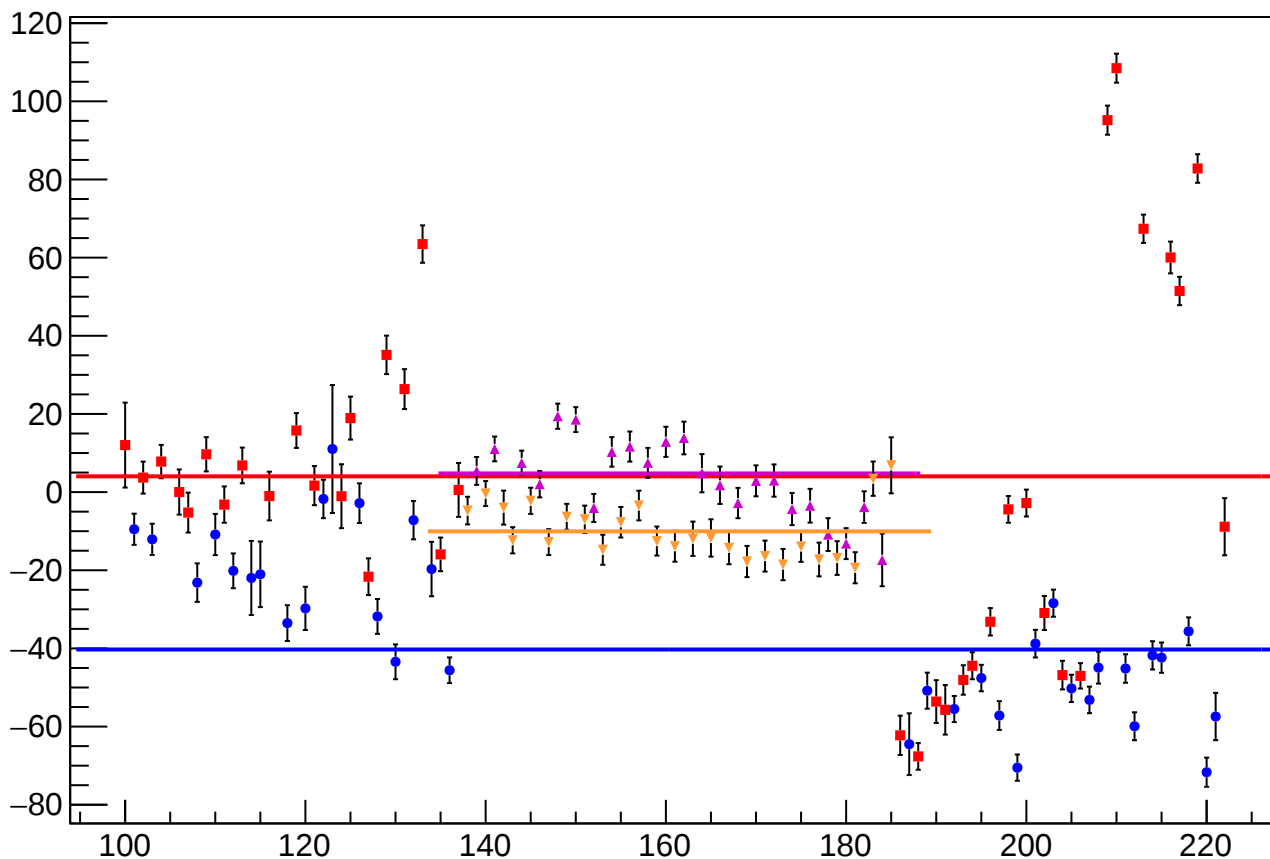
Right: 1432.877 $\pm$ 0.163 χ^2/NDF : 1897009.1/72

In: 1598.332 $\pm$ 0.190 χ^2/NDF : 2603946.6/57

Out: 1592.643 $\pm$ 0.184 χ^2/NDF : 2849732.8/62

All: 1595.400 $\pm$ 0.132 χ^2/NDF : 5454141.5/12

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.274 ± 0.713 $\chi^2/\text{NDF}: 665.2/34$

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

Right Out: 4.033 ± 0.706 $\chi^2/\text{NDF}: 4645.3/37$

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

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

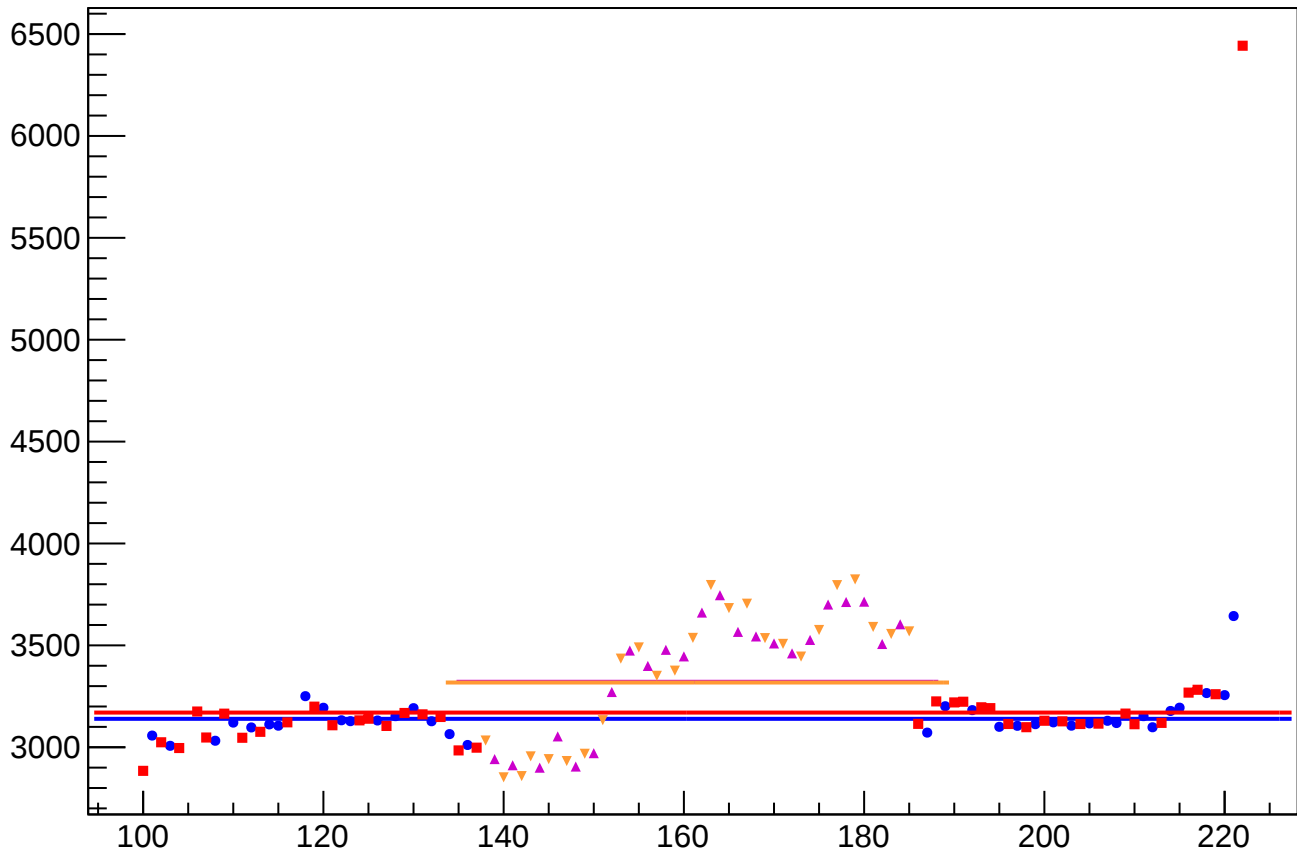
Right: -17.897 ± 0.502 $\chi^2/\text{NDF}: 7260.6/72$

In: -20.344 ± 0.532 $\chi^2/\text{NDF}: 2559.6/57$

Out: -2.336 ± 0.522 $\chi^2/\text{NDF}: 4892.4/62$

All: -11.167 ± 0.373 $\chi^2/\text{NDF}: 8034.9/120$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3139.490+/-0.504 χ^2/NDF : 30269.2/34

Left Out: 3317.699+/-0.549 χ^2/NDF : 336877.2/24

Right Out: 3170.207+/-0.499 χ^2/NDF : 427029.5/37

Left In: 3321.275+/-0.566 χ^2/NDF : 284334.2/22

Left: 3319.432+/-0.394 χ^2/NDF : 621232.0/47

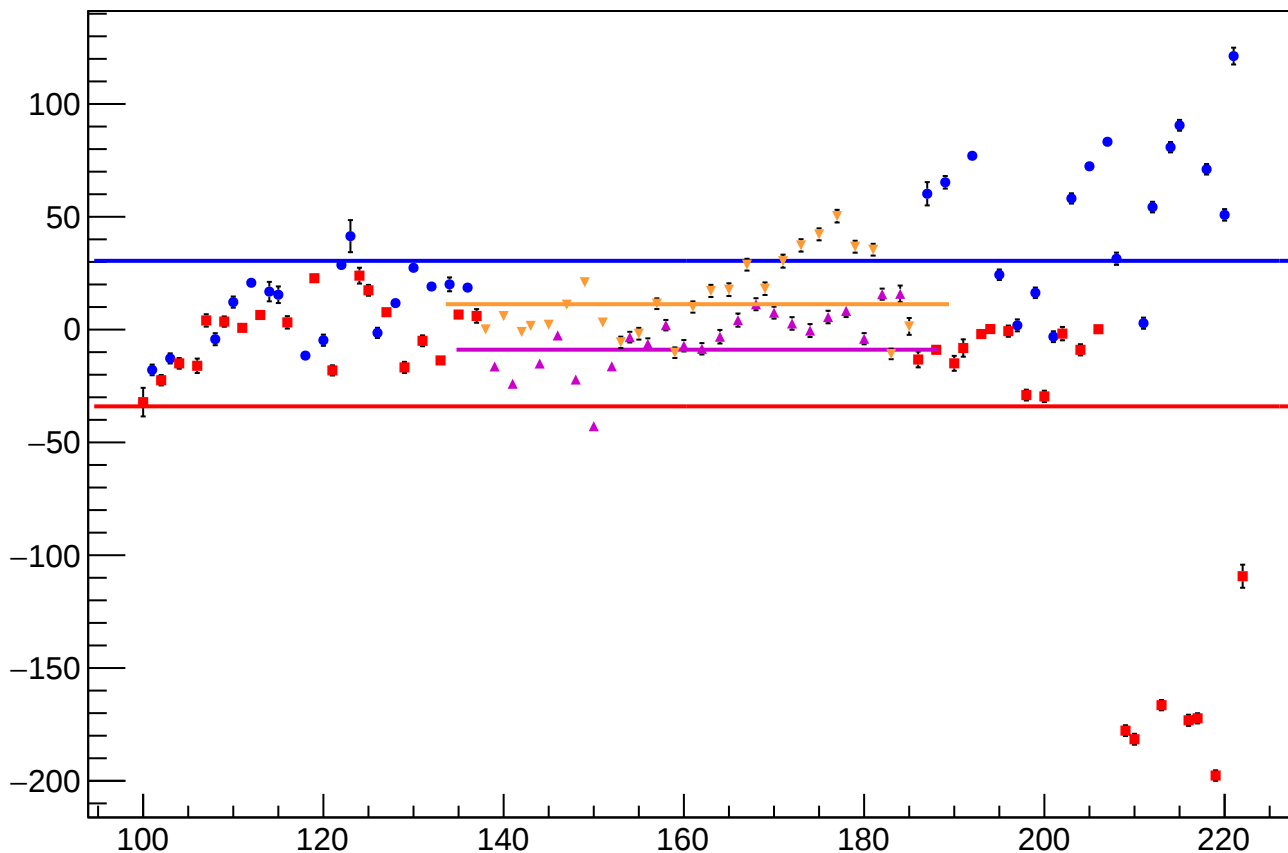
Right: 3155.003+/-0.355 χ^2/NDF : 459173.2/72

In: 3219.916+/-0.376 χ^2/NDF : 372115.3/57

Out: 3236.957+/-0.369 χ^2/NDF : 803424.6/62

All: 3228.600+/-0.264 χ^2/NDF : 1176584.1/12

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 30.481 ± 0.403 $\chi^2/\text{NDF}: 6535.7/34$

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

Right Out: -34.019 ± 0.397 $\chi^2/\text{NDF}: 28674.2/37$

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

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

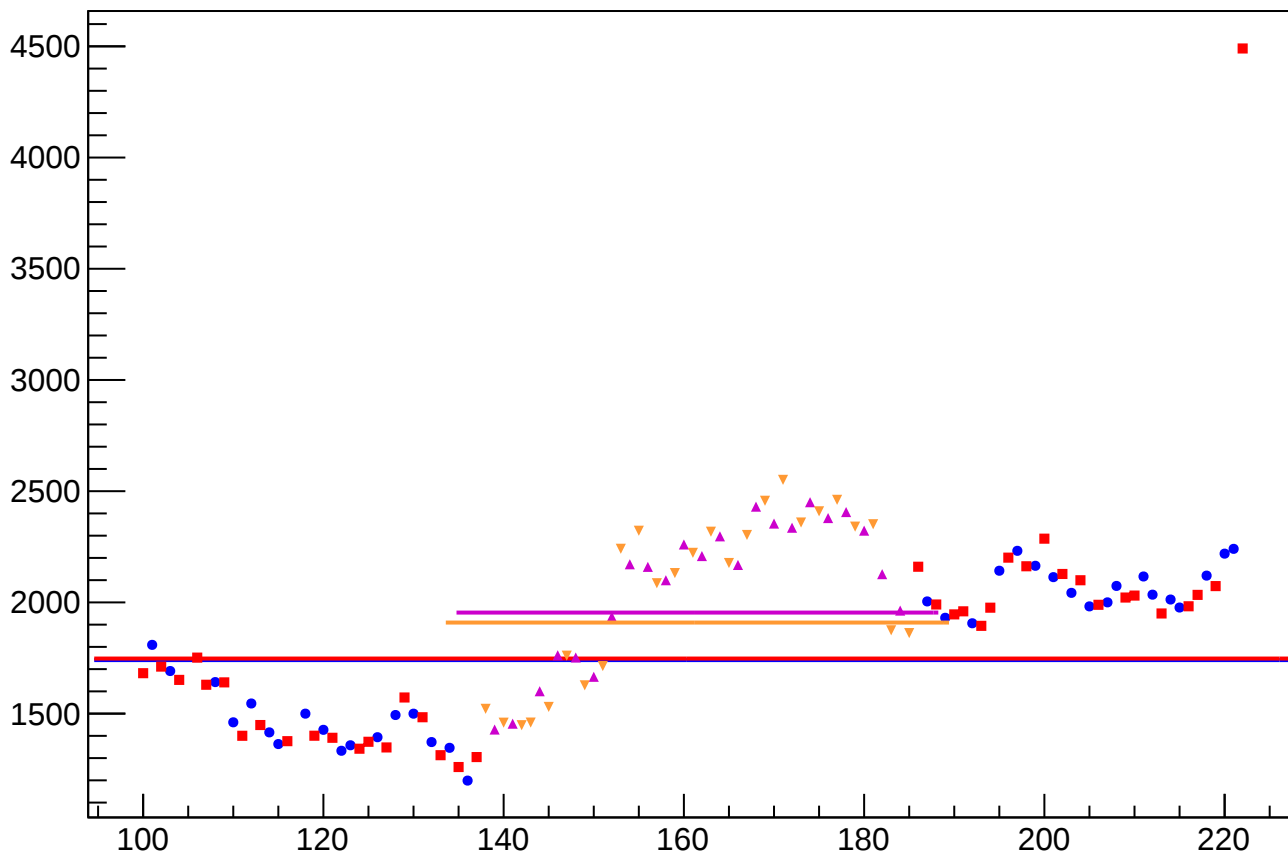
Right: -2.278 ± 0.283 $\chi^2/\text{NDF}: 48199.3/72$

In: 14.082 ± 0.308 $\chi^2/\text{NDF}: 11442.4/57$

Out: -14.413 ± 0.299 $\chi^2/\text{NDF}: 35449.5/62$

All: -0.595 ± 0.215 $\chi^2/\text{NDF}: 51297.3/120$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1740.596 ± 0.285 $\chi^2/\text{NDF}: 1423088.6/34$

Left Out: 1909.387 ± 0.321 $\chi^2/\text{NDF}: 1398498.0/24$

Right Out: 1747.587 ± 0.281 $\chi^2/\text{NDF}: 1870656.0/37$

Left In: 1954.236 ± 0.338 $\chi^2/\text{NDF}: 1044826.7/22$

Left: 1930.697 ± 0.233 $\chi^2/\text{NDF}: 2452584.2/47$

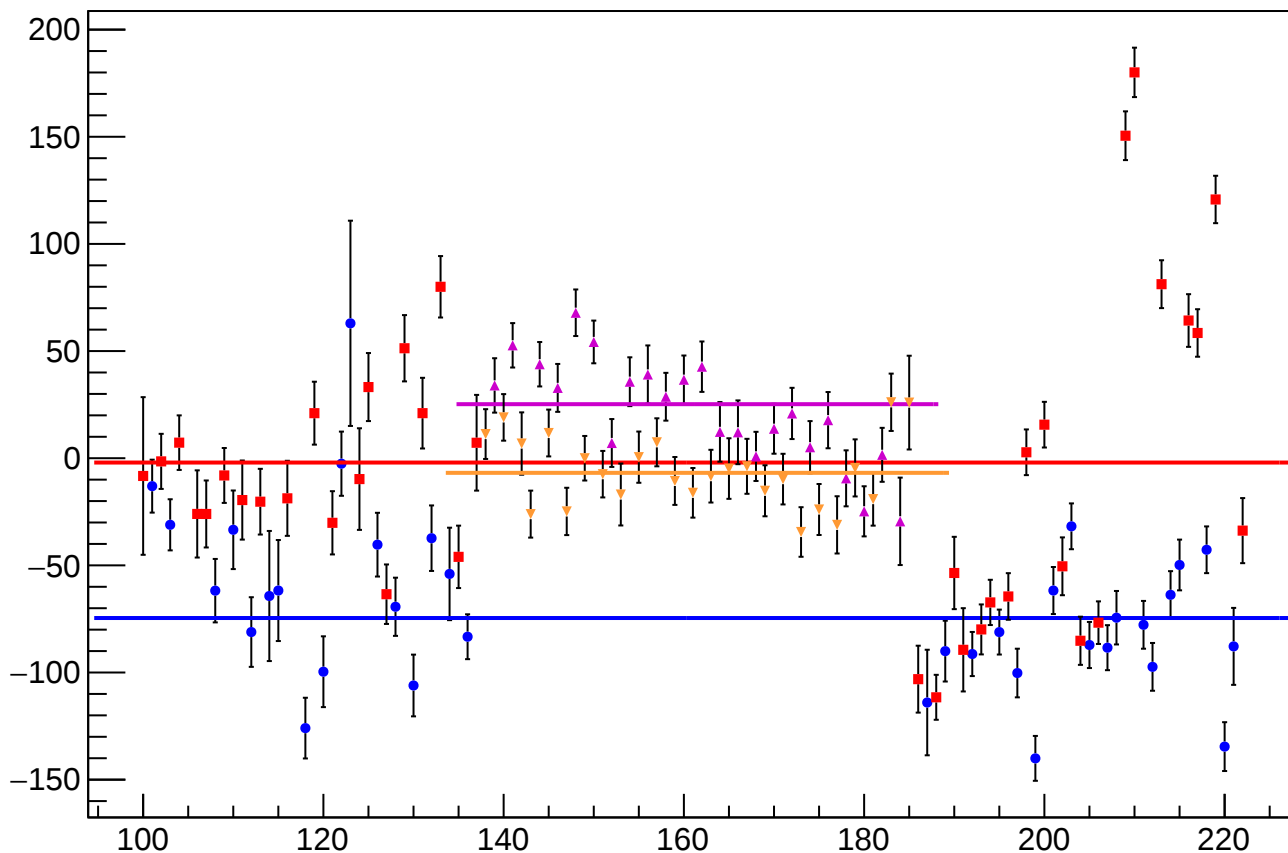
Right: 1744.147 ± 0.200 $\chi^2/\text{NDF}: 3294049.7/72$

In: 1829.547 ± 0.218 $\chi^2/\text{NDF}: 2701559.8/57$

Out: 1817.635 ± 0.211 $\chi^2/\text{NDF}: 3412973.0/62$

All: 1823.411 ± 0.152 $\chi^2/\text{NDF}: 6116072.5/12$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -74.573 ± 2.206 χ^2/NDF : 227.0/34

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

Right Out: -2.022 ± 2.175 χ^2/NDF : 1188.7/37

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

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

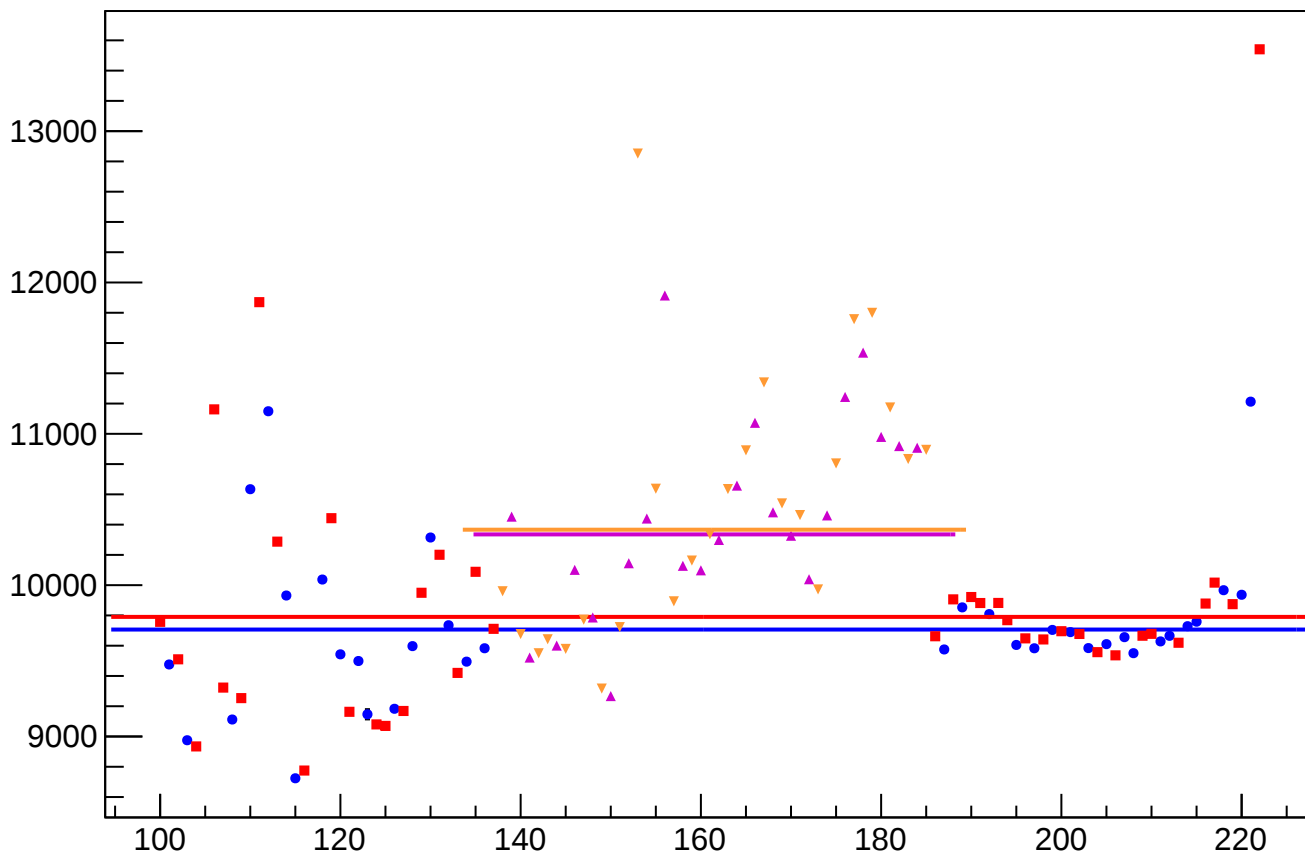
Right: -37.781 ± 1.549 χ^2/NDF : 1964.2/72

In: -30.624 ± 1.650 χ^2/NDF : 1217.4/57

Out: -4.165 ± 1.618 χ^2/NDF : 1233.2/62

All: -17.137 ± 1.155 χ^2/NDF : 2581.7/120

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9706.690 ± 1.560 $\chi^2/\text{NDF}: 62378.9/34$

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

Right Out: 9790.346 ± 1.538 $\chi^2/\text{NDF}: 207573.2/37$

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

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

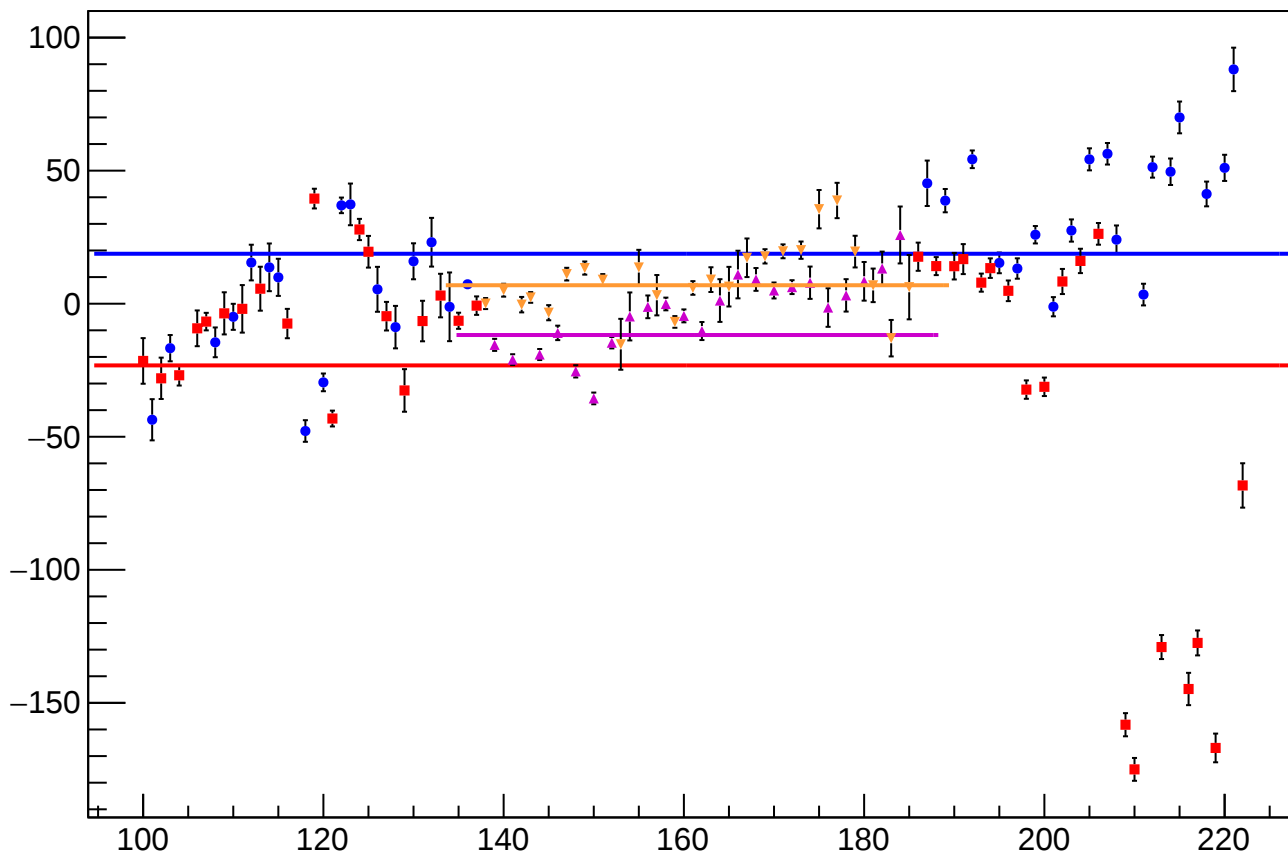
Right: 9749.114 ± 1.095 $\chi^2/\text{NDF}: 271410.6/72$

In: 9983.591 ± 1.167 $\chi^2/\text{NDF}: 261096.1/57$

Out: 10047.487 ± 1.144 $\chi^2/\text{NDF}: 481624.1/62$

All: 10016.162 ± 0.817 $\chi^2/\text{NDF}: 744248.7/12$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 18.770 $\pm$ 0.736 χ^2 /NDF: 1443.8/34

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

Right Out: -23.186 $\pm$ 0.734 χ^2 /NDF: 5909.0/37

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

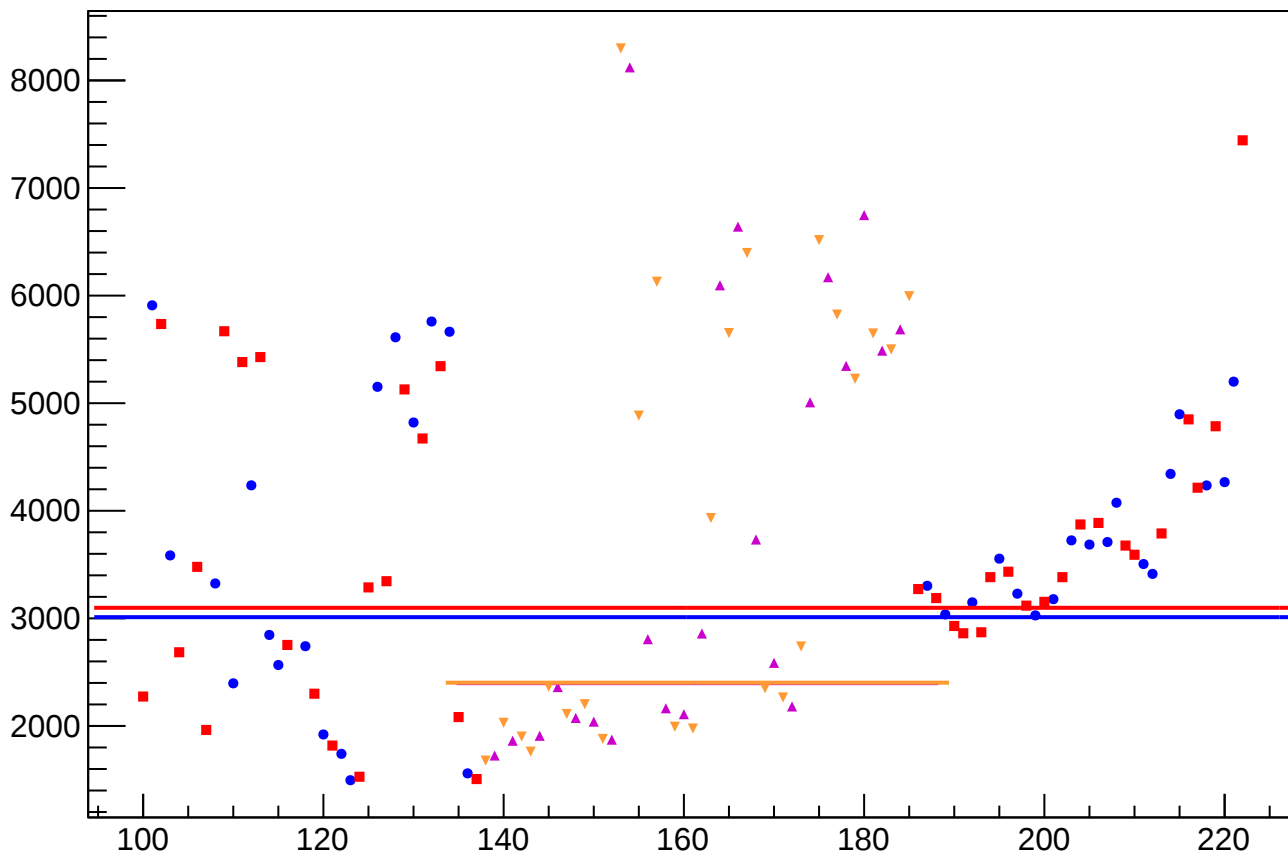
Right: -2.271 $\pm$ 0.520 χ^2 /NDF: 8982.9/72

In: 1.578 $\pm$ 0.486 χ^2 /NDF:2808.3/57

Out: -6.049 $\pm$ 0.482 χ^2 /NDF:7071.9/62

All: -2.273 $\pm$ 0.342 χ^2 /NDF: 10004.2/120

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 3011.213 ± 0.520 $\chi^2/\text{NDF}: 4381017.8/34$

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

Right Out: 3098.368 ± 0.519 $\chi^2/\text{NDF}: 4126454.8/37$

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

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

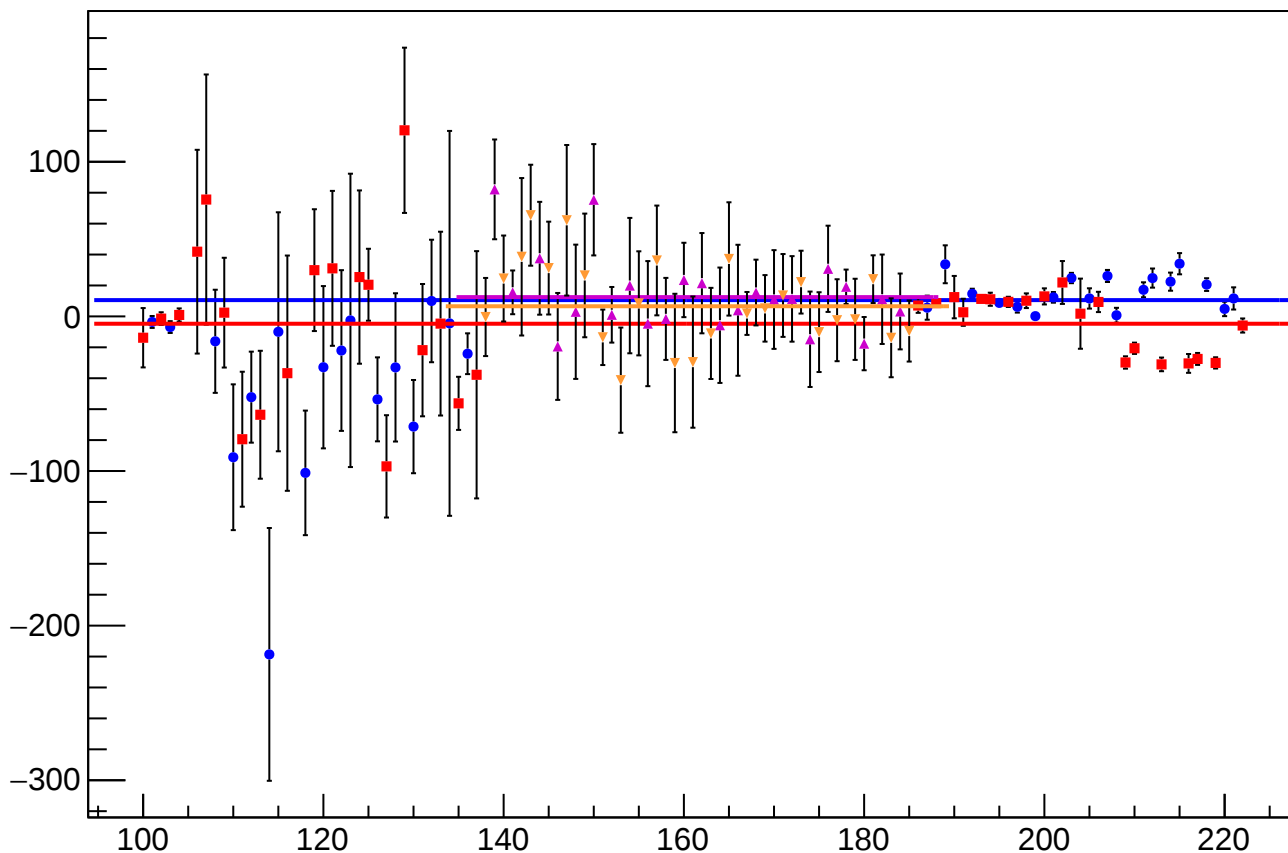
Right: 3054.922 ± 0.367 $\chi^2/\text{NDF}: 8521540.2/72$

In: 2665.797 ± 0.344 $\chi^2/\text{NDF}: 10562505.9/57$

Out: 2702.434 ± 0.341 $\chi^2/\text{NDF}: 11496232.0/62$

All: 2684.294 ± 0.242 $\chi^2/\text{NDF}: 22064464.7/131$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 10.530 ± 0.959 $\chi^2/\text{NDF}: 169.0/34$

Left Out: 6.560 ± 5.077 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -4.751 ± 0.962 $\chi^2/\text{NDF}: 348.7/37$

Left In: 12.469 ± 5.025 $\chi^2/\text{NDF}: 15.4/22$

Left: 9.545 ± 3.572 $\chi^2/\text{NDF}: 32.8/47$

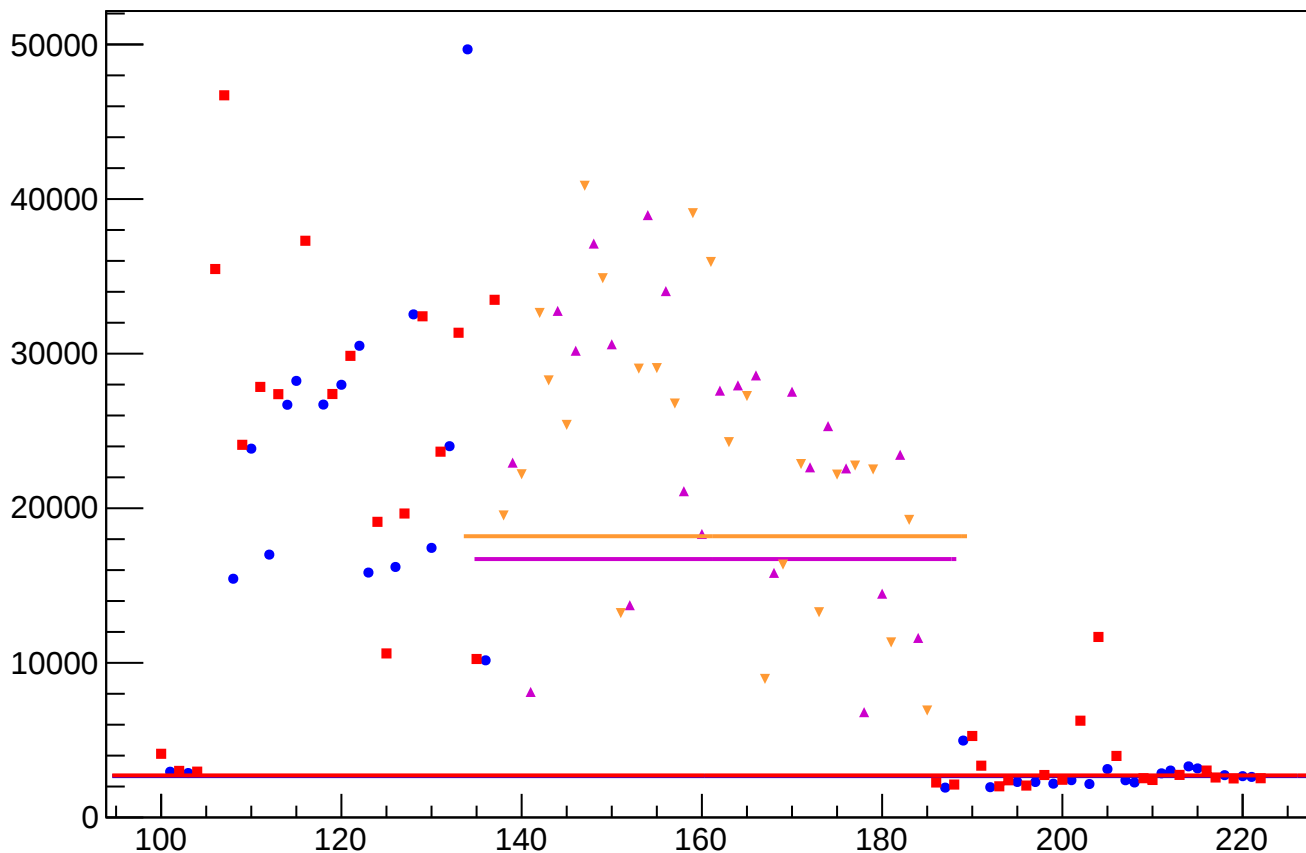
Right: 2.907 ± 0.679 $\chi^2/\text{NDF}: 644.2/72$

In: 10.598 ± 0.942 $\chi^2/\text{NDF}: 184.5/57$

Out: -4.359 ± 0.945 $\chi^2/\text{NDF}: 370.2/62$

All: 3.139 ± 0.667 $\chi^2/\text{NDF}: 680.4/120$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2673.661 ± 0.678 $\chi^2/\text{NDF}: 7047322.8/34$

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

Right Out: 2719.241 ± 0.680 $\chi^2/\text{NDF}: 9097690.2/37$

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

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

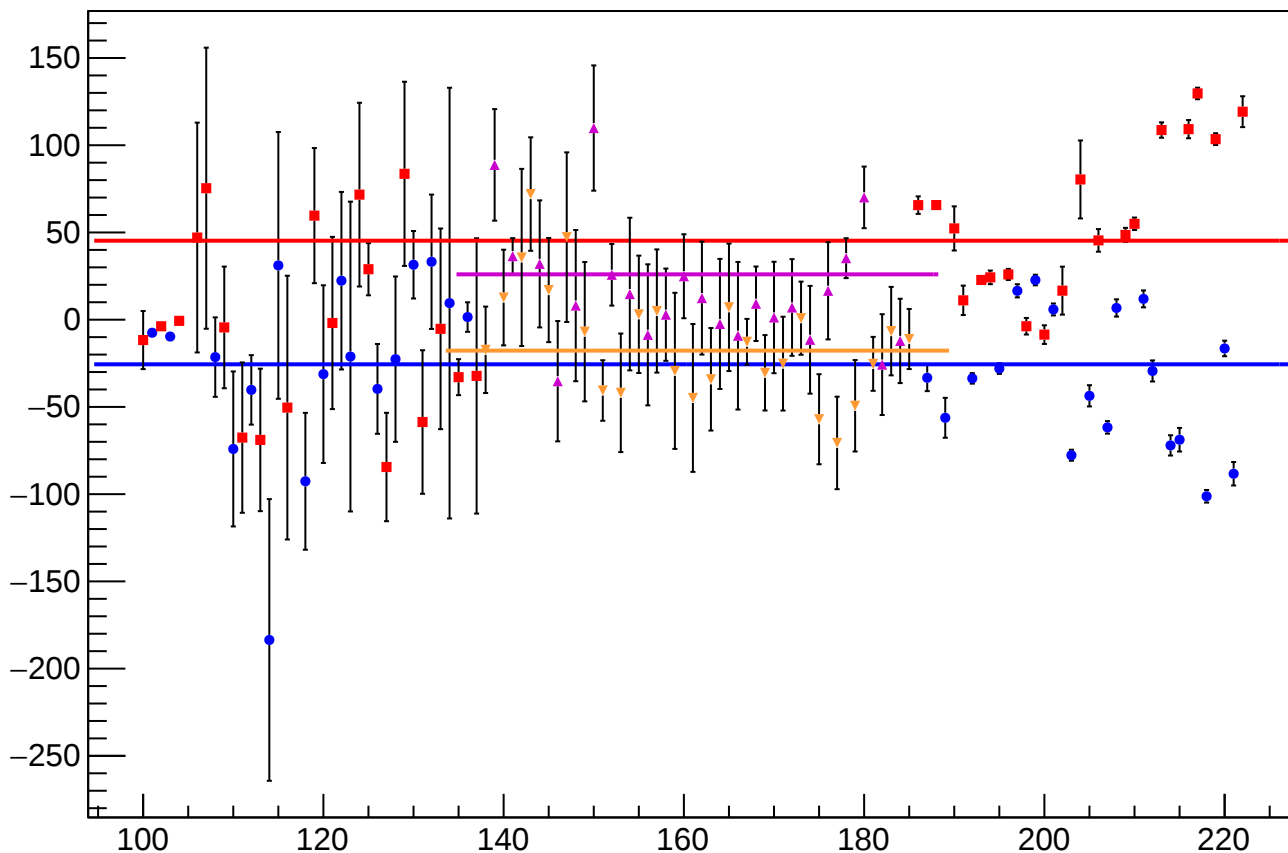
Right: 2696.399 ± 0.480 $\chi^2/\text{NDF}: 16147265.2/72$

In: 3167.391 ± 0.666 $\chi^2/\text{NDF}: 28303969.9/57$

Out: 3254.902 ± 0.668 $\chi^2/\text{NDF}: 32285042.1/62$

All: 3211.035 ± 0.472 $\chi^2/\text{NDF}: 60597613.5/113$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -25.572 $\pm$ 0.866 χ^2/NDF : 1710.4/34

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

Right Out: 45.284 $\pm$ 0.880 χ^2/NDF : 2493.3/37

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

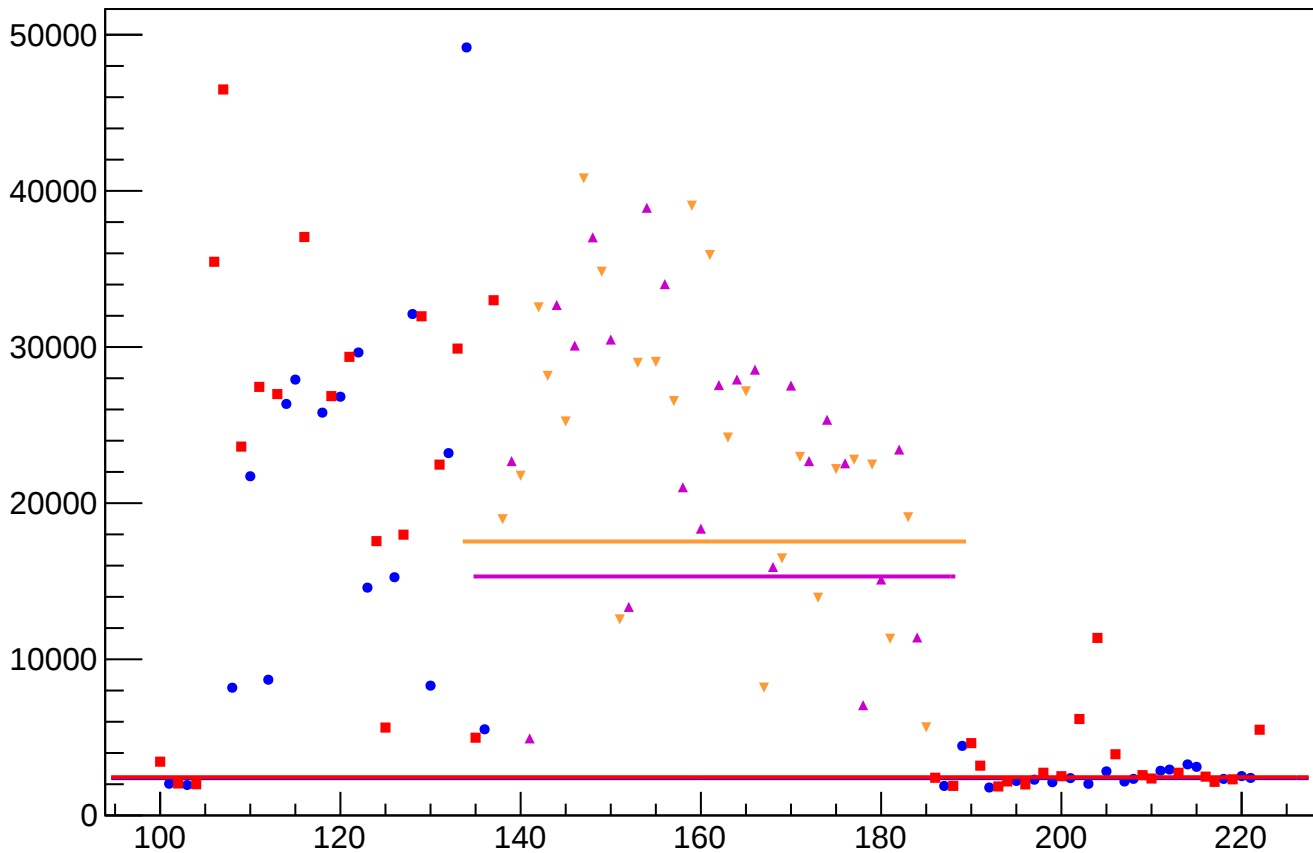
Right: 9.275 $\pm$ 0.617 χ^2/NDF : 7498.4/72

In: -23.940 $\pm$ 0.852 χ^2/NDF : 1855.3/57

Out: 43.372 $\pm$ 0.867 χ^2/NDF : 2676.0/62

All: 9.141 $\pm$ 0.607 χ^2/NDF : 7599.8/120

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2389.842 ± 0.612 $\chi^2/\text{NDF}: 5930727.3/34$

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

Right Out: 2447.676 ± 0.622 $\chi^2/\text{NDF}: 9015441.3/37$

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

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

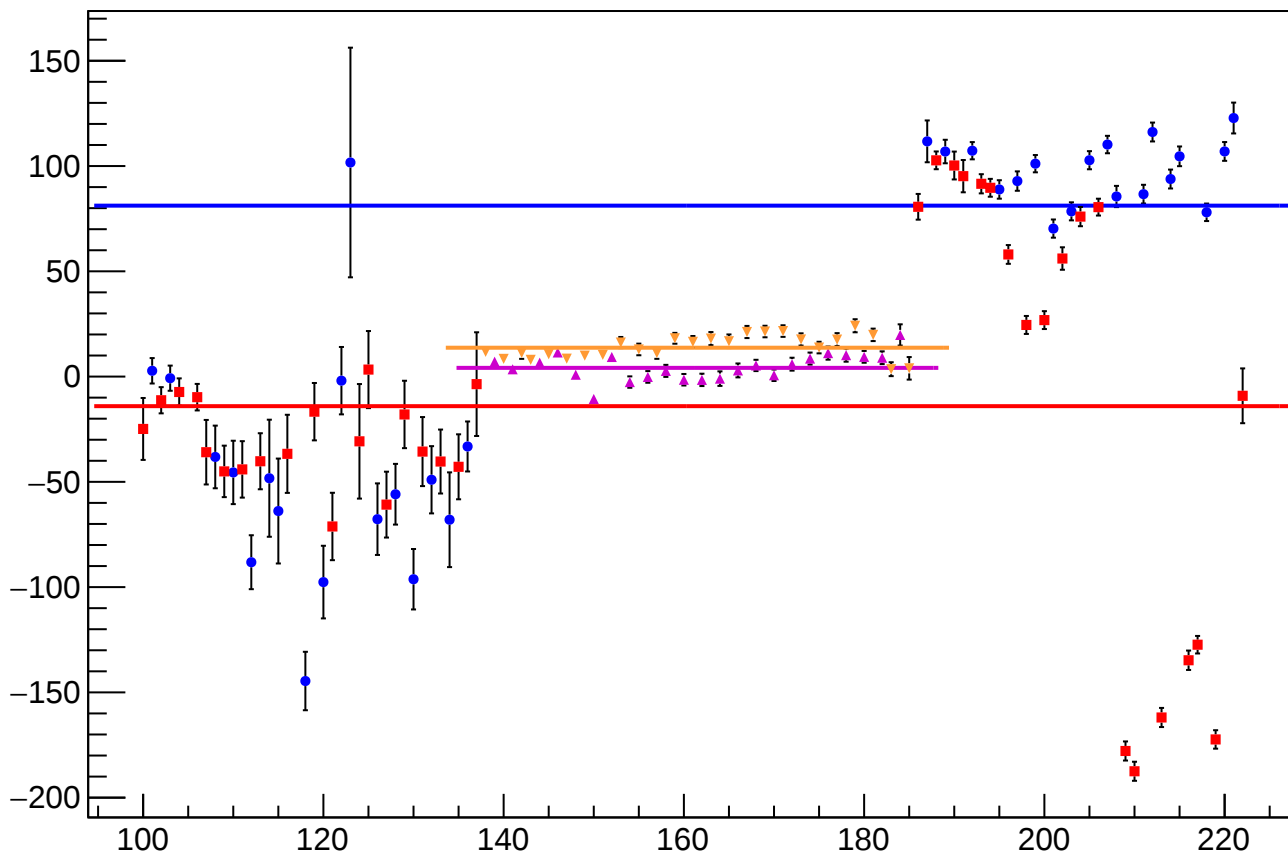
Right: 2418.285 ± 0.436 $\chi^2/\text{NDF}: 14950558.5/72$

In: 2798.542 ± 0.602 $\chi^2/\text{NDF}: 27738862.8/57$

Out: 2905.897 ± 0.613 $\chi^2/\text{NDF}: 32785470.6/62$

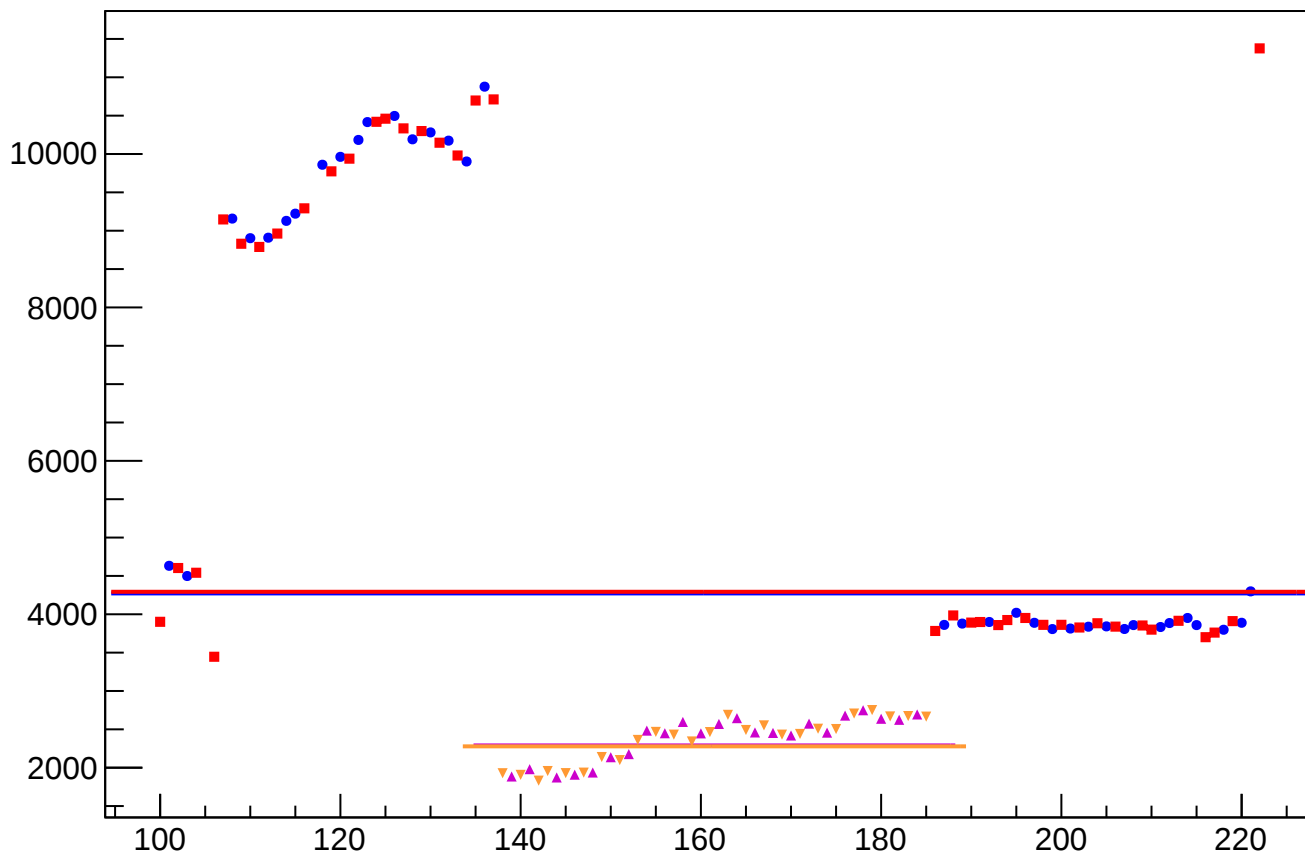
All: 2851.303 ± 0.430 $\chi^2/\text{NDF}: 60539943.5/113$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Left: 9.097 ± 0.385 χ^2/NDF : 355.6/47
 Right: 32.909 ± 0.719 χ^2/NDF : 17199.8/72
 In: 21.643 ± 0.488 χ^2/NDF : 6485.3/57
 Out: 7.615 ± 0.473 χ^2/NDF : 11496.8/62
 All: 14.412 ± 0.340 χ^2/NDF : 18408.5/120

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4271.956+/-0.724 χ^2/NDF : 3908545.4/34

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

Right Out: 4293.217+/-0.714 χ^2/NDF : 4544224.0/37

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

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

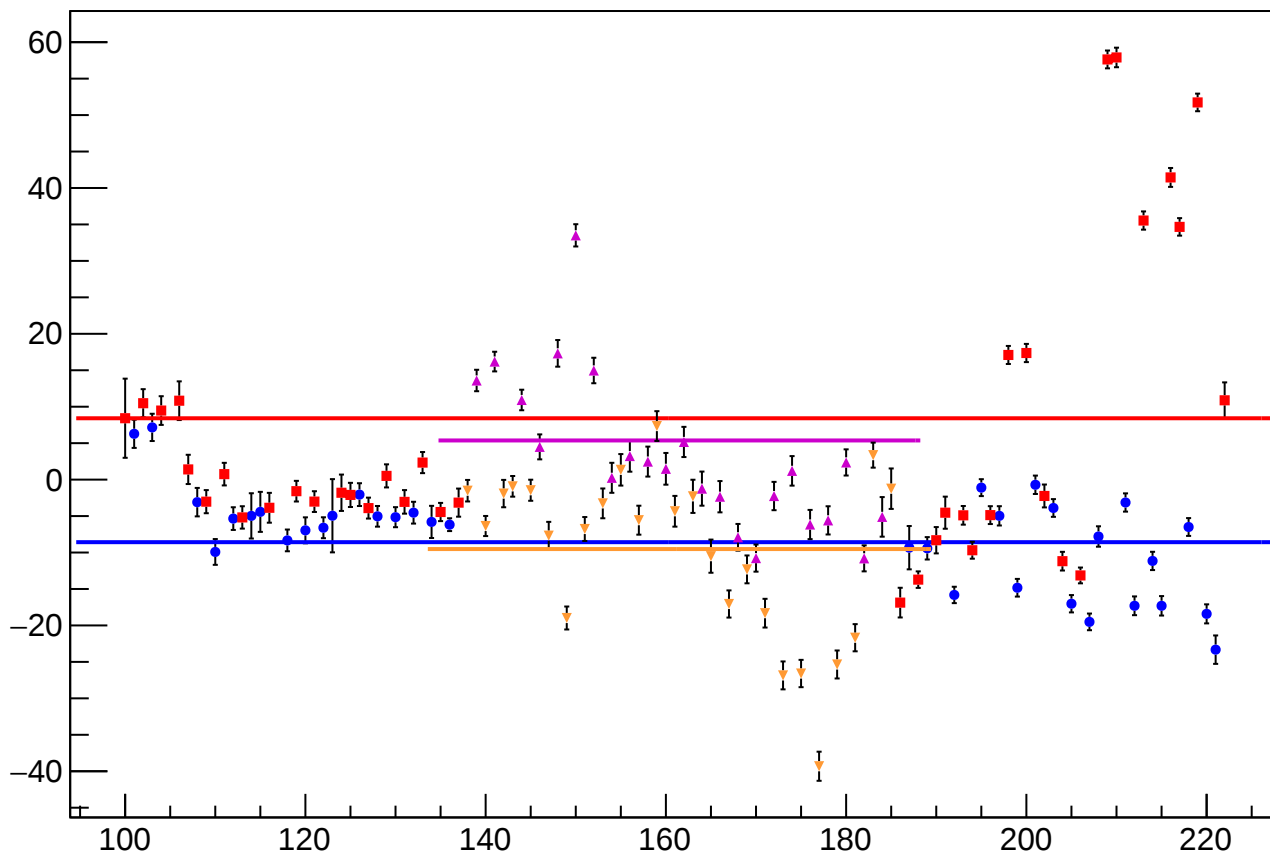
Right: 4282.734+/-0.508 χ^2/NDF : 8453207.1/72

In: 2740.570+/-0.345 χ^2/NDF : 10293987.6/57

Out: 2720.469+/-0.334 χ^2/NDF : 11374092.7/62

All: 2730.209+/-0.240 χ^2/NDF : 21669831.4/117

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -8.580 ± 0.242 $\chi^2/\text{NDF}: 738.4/34$

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

Right Out: 8.415 ± 0.240 $\chi^2/\text{NDF}: 8455.4/37$

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

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

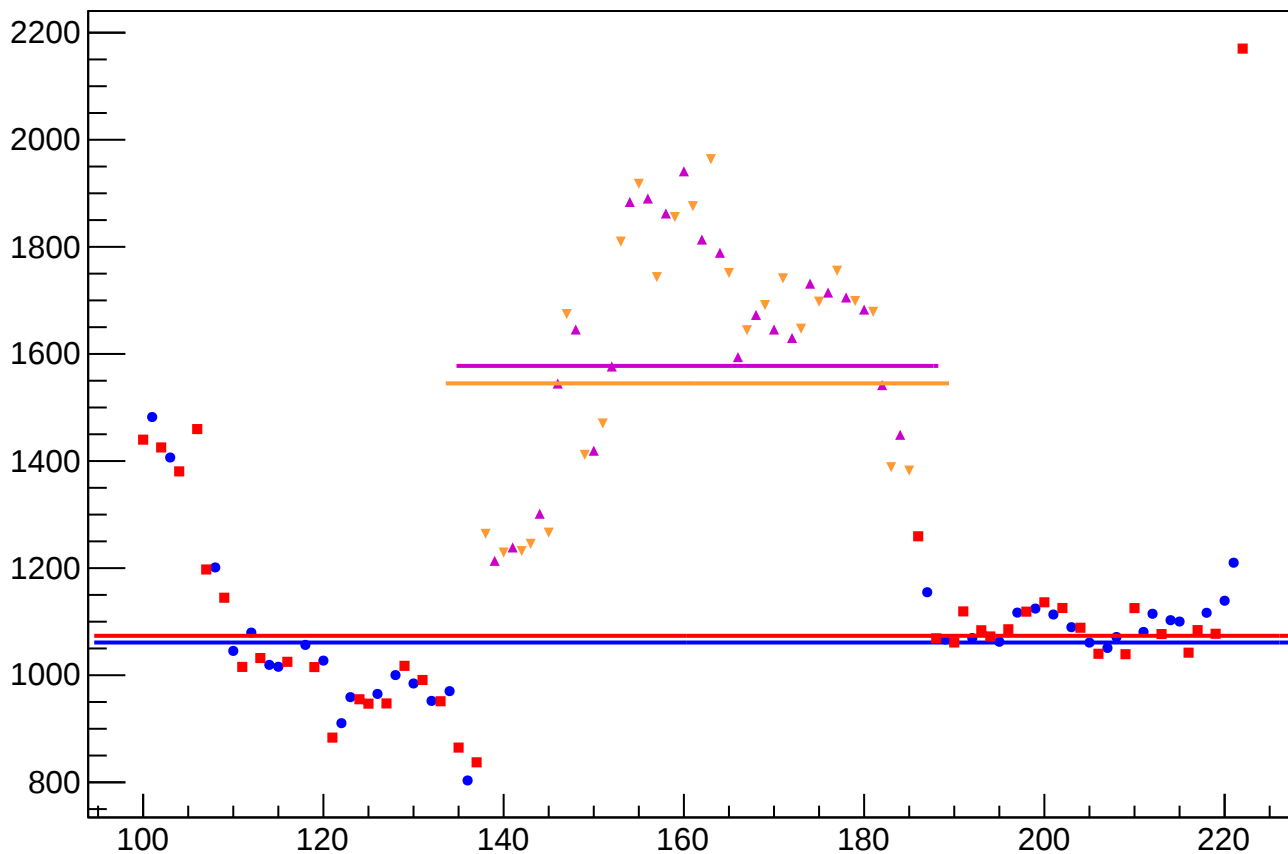
Right: -0.012 ± 0.171 $\chi^2/\text{NDF}: 11674.5/72$

In: -4.591 ± 0.205 $\chi^2/\text{NDF}: 2556.3/57$

Out: 2.987 ± 0.201 $\chi^2/\text{NDF}: 11026.2/62$

All: -0.726 ± 0.143 $\chi^2/\text{NDF}: 14281.4/120$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1061.096 $\pm$ 0.171 χ^2 /NDF: 449132.3/34

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

Right Out: 1073.630 $\pm$ 0.170 χ^2 /NDF: 796727.6/37

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

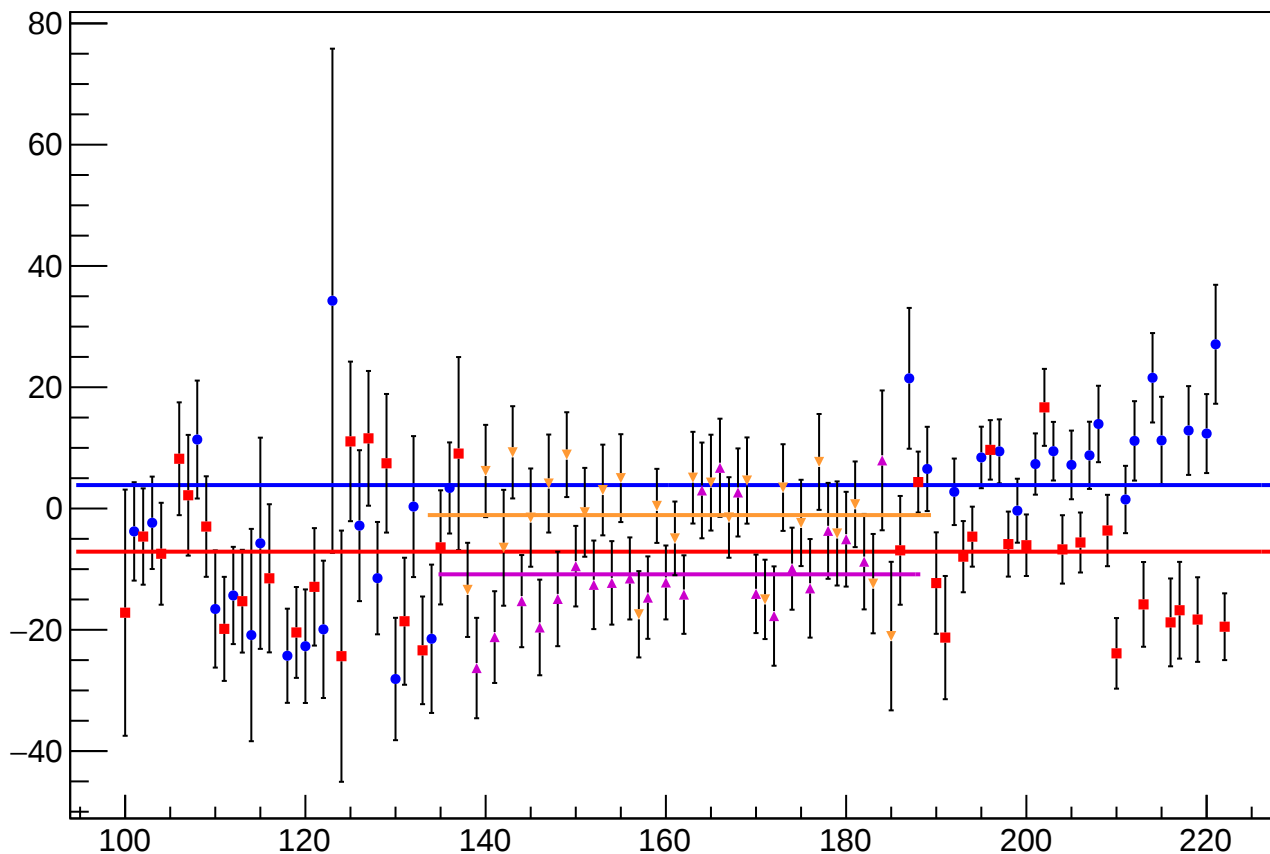
Right: 1067.416 $\pm$ 0.121 χ^2 /NDF: 1248558.6/72

In: 1208.786 $\pm$ 0.145 χ^2 /NDF: 3674140.5/57

Out: 1216.267 $\pm$ 0.142 χ^2 /NDF: 3969163.3/62

All: 1212.602 $\pm$ 0.101 χ^2 /NDF: 7644666.0/12

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 3.865 ± 1.230 $\chi^2/\text{NDF}: 85.3/34$

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

Right Out: -7.115 ± 1.180 $\chi^2/\text{NDF}: 79.3/37$

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

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

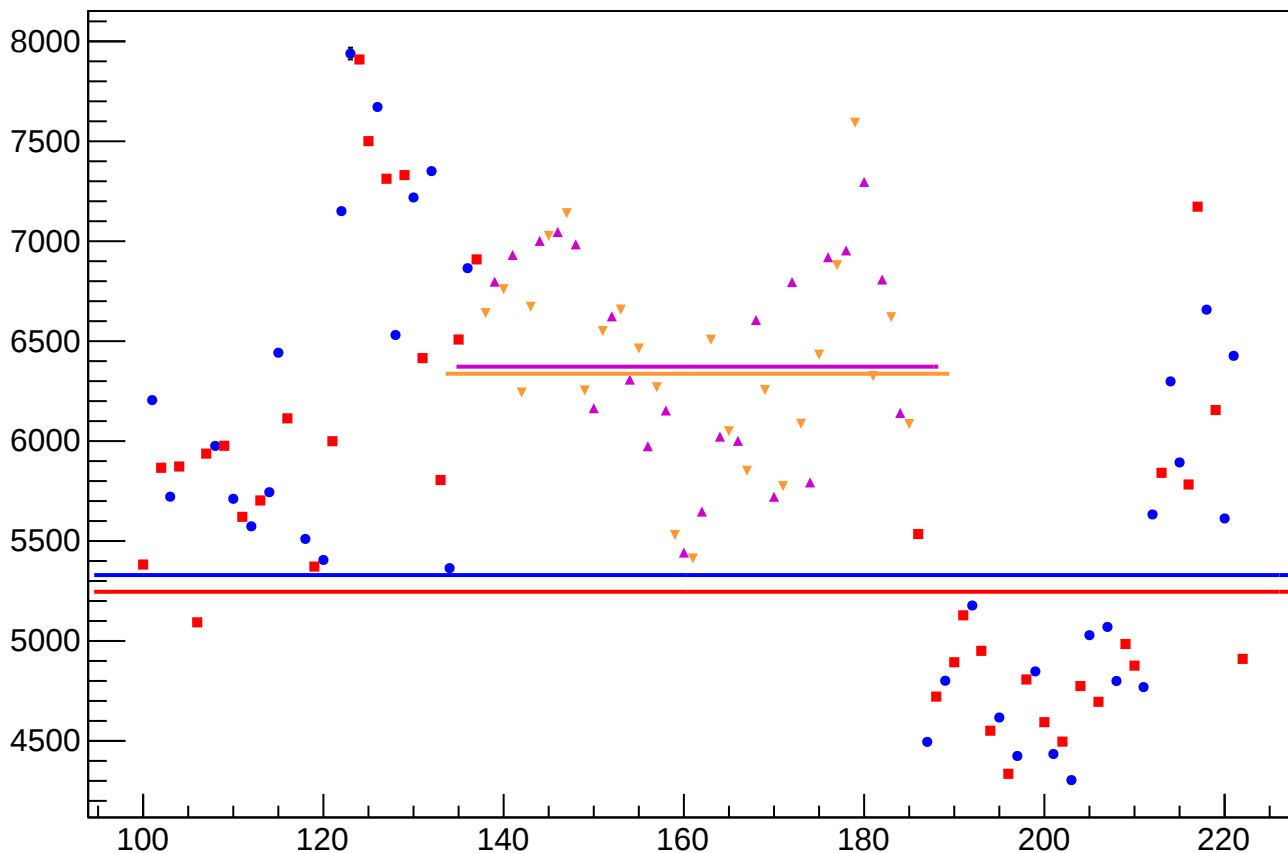
Right: -1.851 ± 0.852 $\chi^2/\text{NDF}: 206.0/72$

In: -1.859 ± 0.961 $\chi^2/\text{NDF}: 165.3/57$

Out: -4.784 ± 0.925 $\chi^2/\text{NDF}: 116.9/62$

All: -3.379 ± 0.666 $\chi^2/\text{NDF}: 287.0/120$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5329.678 $\pm$ 0.870 χ^2/NDF : 912644.7/34

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

Right Out: 5246.195 $\pm$ 0.835 χ^2/NDF : 849639.5/37

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

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

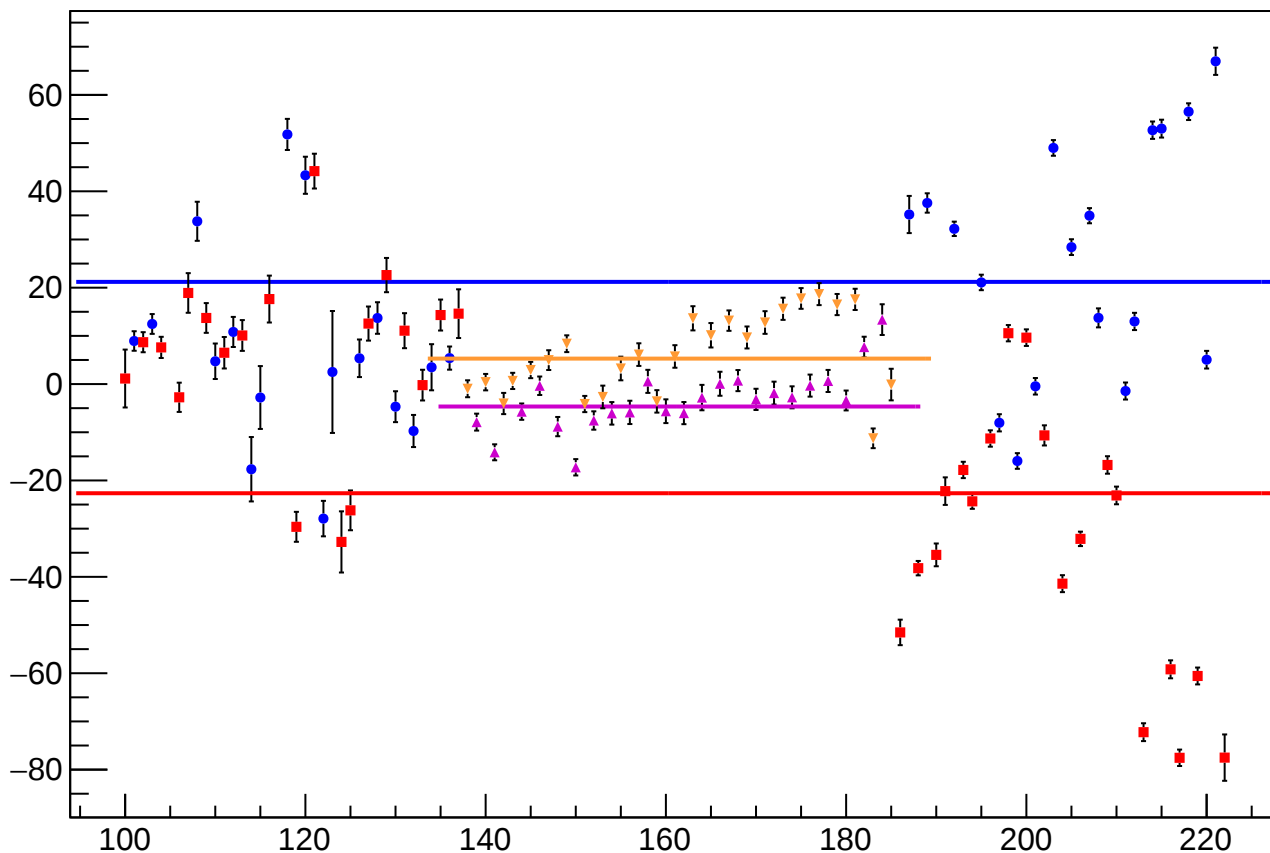
Right: 5286.220 $\pm$ 0.602 χ^2/NDF : 1767080.5/72

In: 5735.233 $\pm$ 0.680 χ^2/NDF : 1718927.9/57

Out: 5667.753 $\pm$ 0.654 χ^2/NDF : 1732519.5/62

All: 5700.173 $\pm$ 0.471 χ^2/NDF : 3456566.1/12

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 21.205 $\pm$ 0.374 χ^2 /NDF: 3701.9/34

Left Out: 5.284 $\pm$ 0.421 χ^2 /NDF:366.1/24

Right Out: -22.652 $\pm$ 0.370 χ^2 /NDF: 5887.4/37

Left In: -4.657 $\pm$ 0.443 χ^2 /NDF:196.5/22

Left: 0.574 $\pm$ 0.305 χ^2 /NDF: 827.2/47

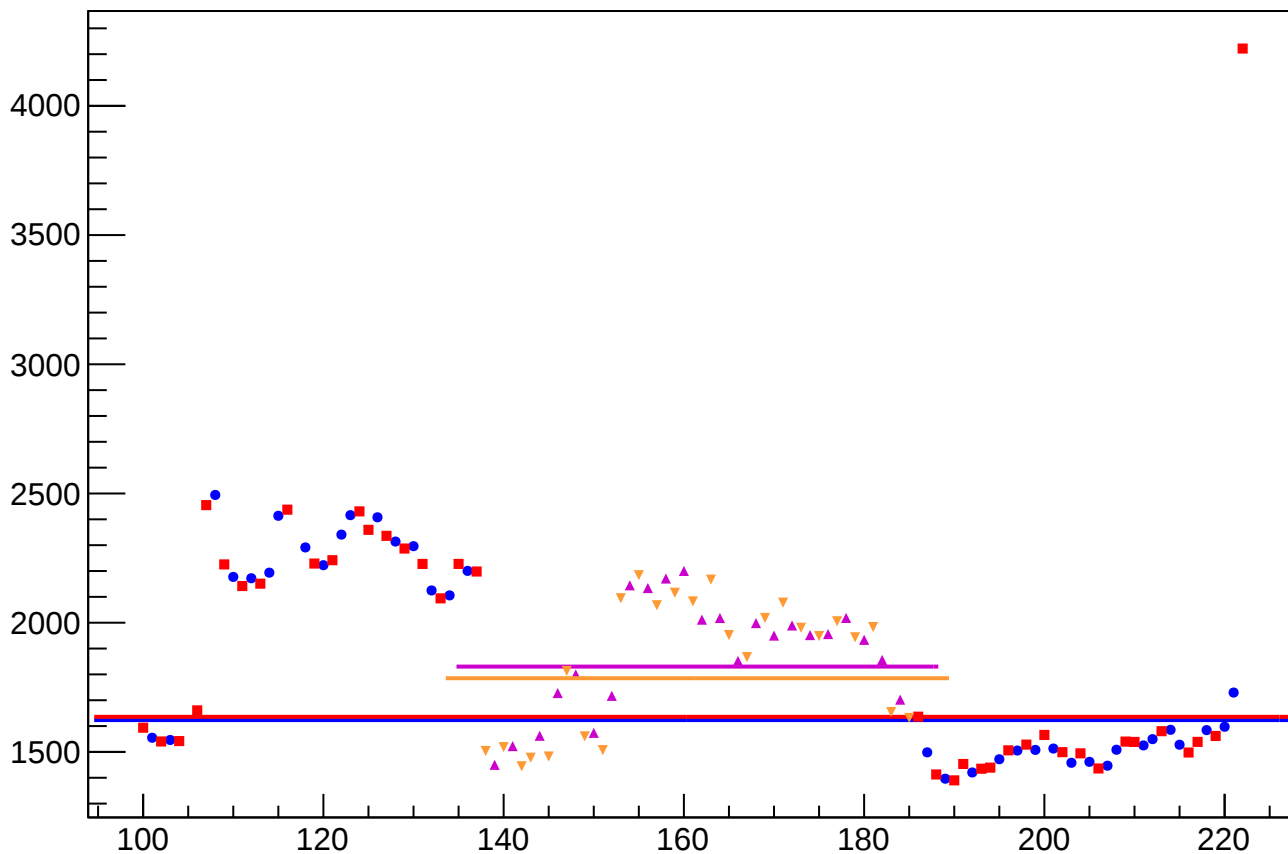
Right: -0.922 $\pm$ 0.263 χ^2 /NDF: 16532.1/72

In: 10.457 $\pm$ 0.286 χ^2 /NDF:5887.2/57

Out: -10.449 $\pm$ 0.278 χ^2 /NDF:8737.0/62

All: -0.284 $\pm$ 0.199 χ^2 /NDF: 17373.1/120

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1623.158 ± 0.264 $\chi^2/\text{NDF}: 1107375.4/34$

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

Right Out: 1635.764 ± 0.262 $\chi^2/\text{NDF}: 1695920.4/37$

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

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

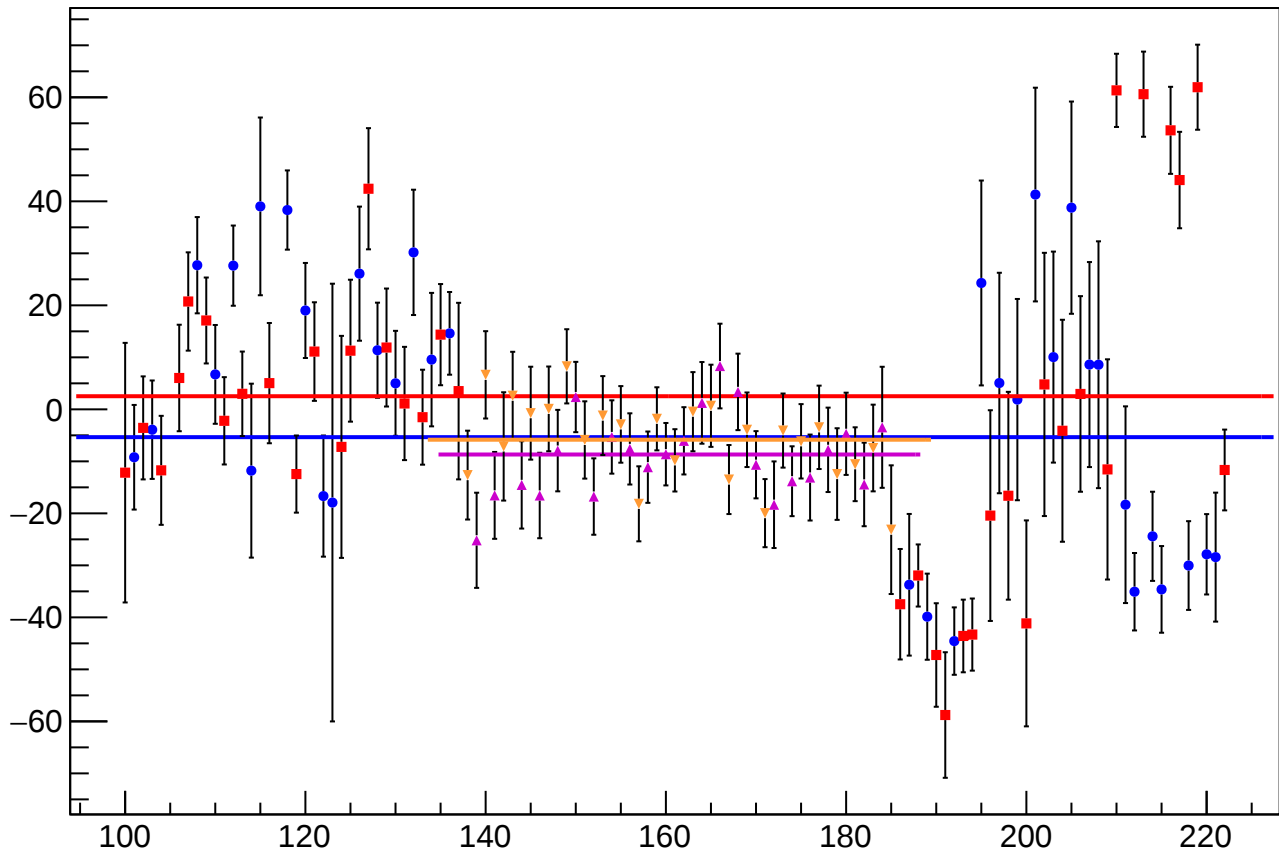
Right: 1629.518 ± 0.186 $\chi^2/\text{NDF}: 2804443.0/72$

In: 1709.188 ± 0.202 $\chi^2/\text{NDF}: 1870580.8/57$

Out: 1701.030 ± 0.197 $\chi^2/\text{NDF}: 2588637.8/62$

All: 1704.997 ± 0.141 $\chi^2/\text{NDF}: 4460055.8/12$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -5.348 $\pm$ 1.796 χ^2/NDF : 233.7/34

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

Right Out: 2.524 $\pm$ 1.615 χ^2/NDF : 456.3/37

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

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

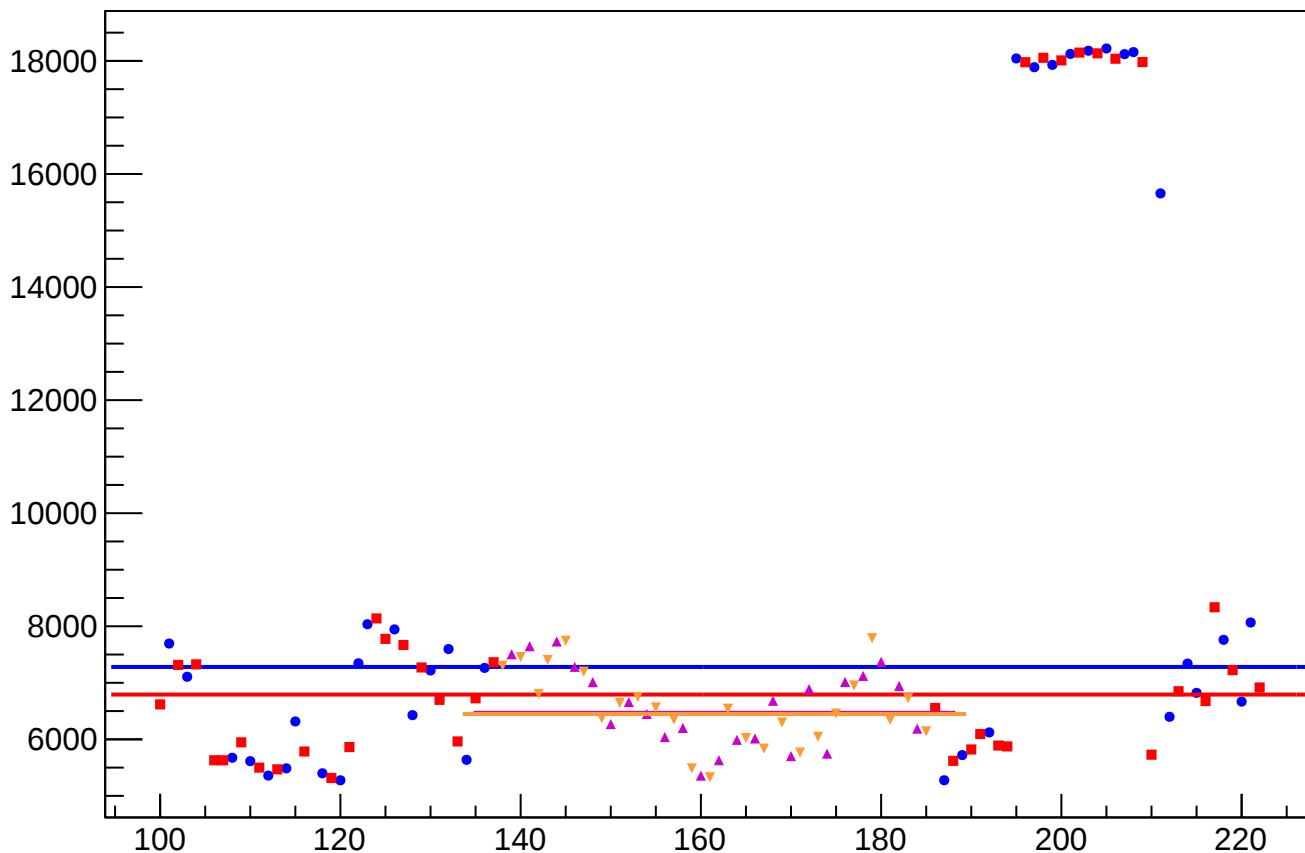
Right: -0.994 $\pm$ 1.201 χ^2/NDF : 700.6/72

In: -7.238 $\pm$ 1.182 χ^2/NDF : 257.6/57

Out: -1.915 $\pm$ 1.106 χ^2/NDF : 493.9/62

All: -4.399 $\pm$ 0.808 χ^2/NDF : 762.2/120

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7280.470 ± 1.270 χ^2/NDF : 5624076.6/34

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

Right Out: 6792.015 ± 1.142 χ^2/NDF : 4761963.5/37

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

Left: 6457.948 ± 0.772 χ^2/NDF : 755184.7/47

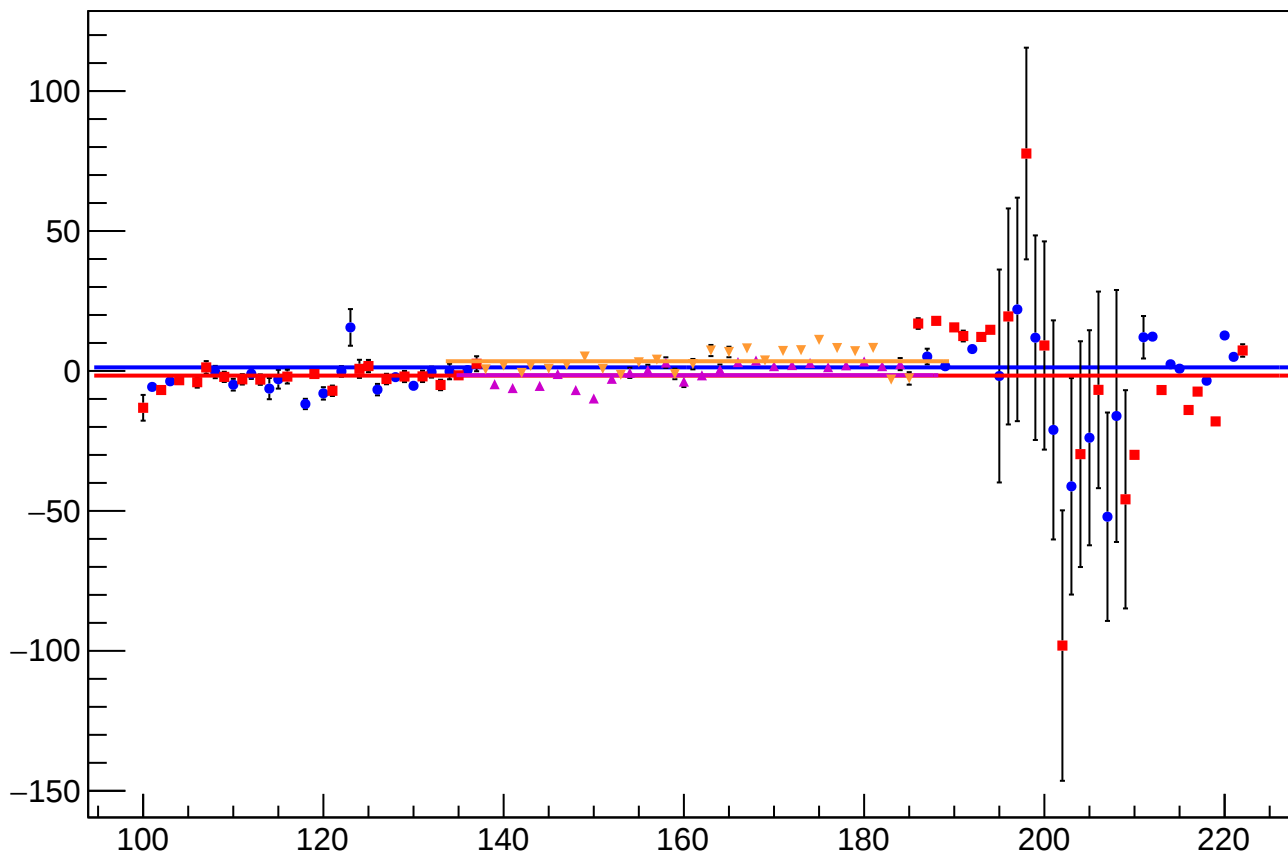
Right: 7010.323 ± 0.849 χ^2/NDF : 10467842.6/72

In: 6820.552 ± 0.836 χ^2/NDF : 6238793.8/57

Out: 6609.284 ± 0.782 χ^2/NDF : 5181898.6/62

All: 6707.888 ± 0.571 χ^2/NDF : 11454746.7/1

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 1.283 ± 0.312 χ^2/NDF : 405.9/34

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

Right Out: -1.658 ± 0.288 χ^2/NDF : 1834.0/37

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

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

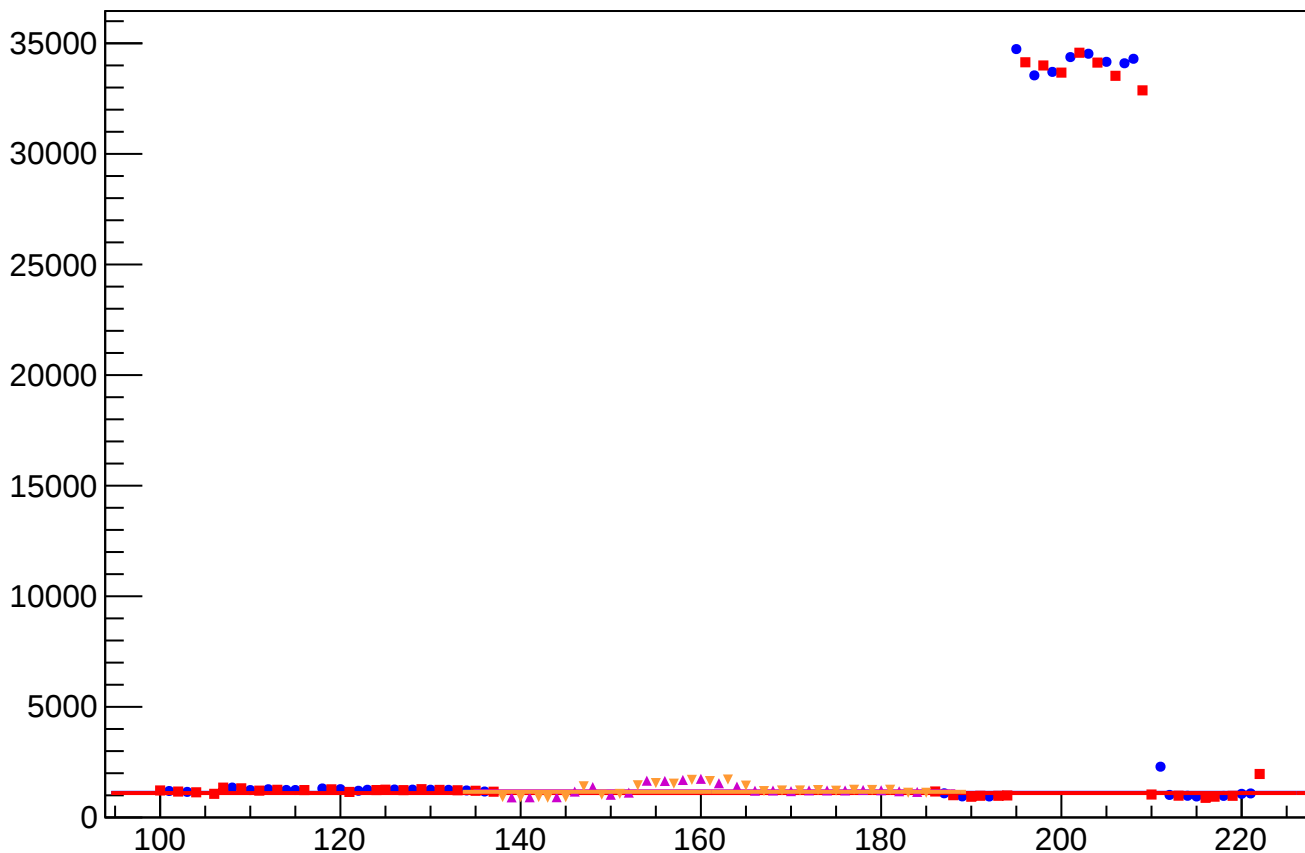
Right: -0.308 ± 0.212 χ^2/NDF : 2287.8/72

In: -0.210 ± 0.213 χ^2/NDF : 651.2/57

Out: 1.010 ± 0.199 χ^2/NDF : 2175.2/62

All: 0.440 ± 0.145 χ^2/NDF : 2843.9/120

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1114.470+/-0.221 χ^2/NDF : 11951946.1/34

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

Right Out: 1102.928+/-0.204 χ^2/NDF : 10579731.7/37

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

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

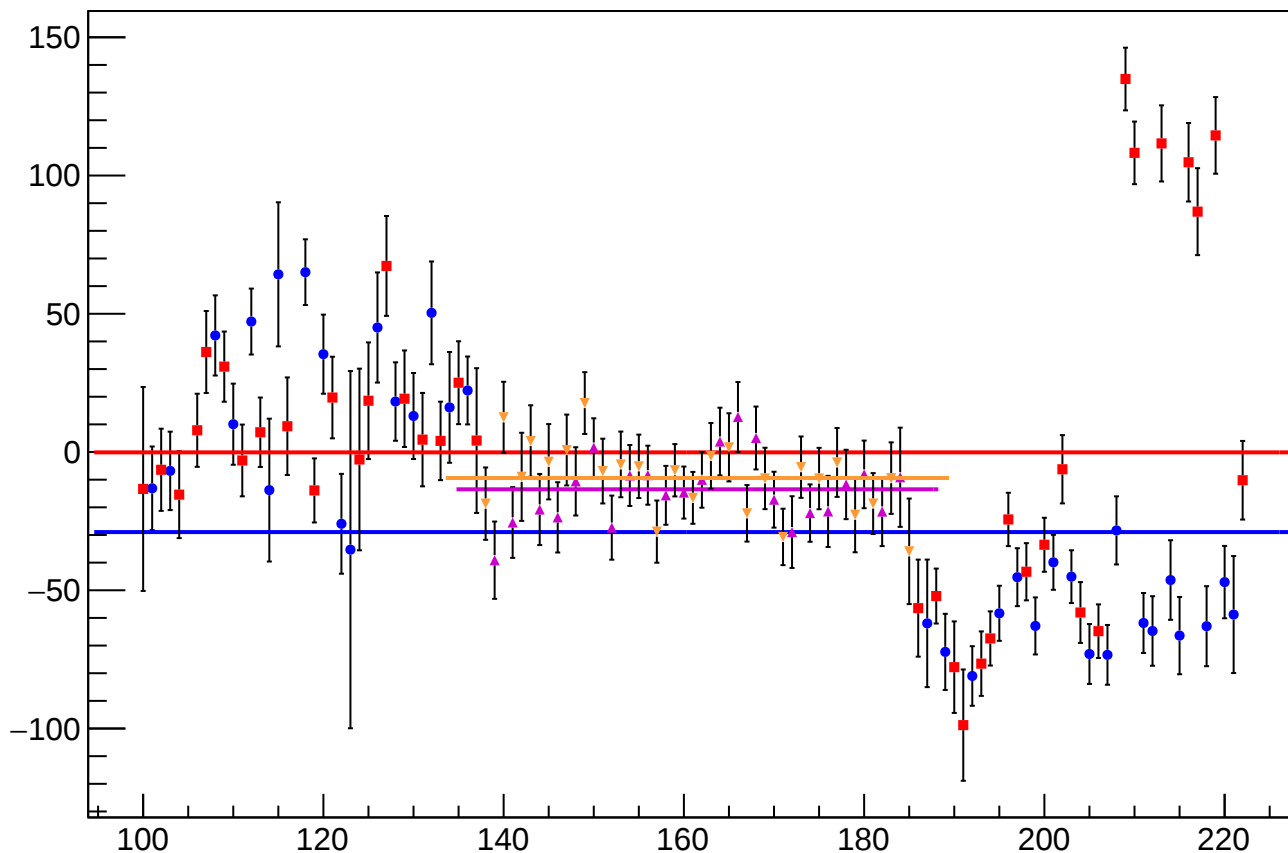
Right: 1108.227+/-0.150 χ^2/NDF : 22533154.2/72

In: 1152.260+/-0.150 χ^2/NDF : 13196966.9/57

Out: 1132.046+/-0.141 χ^2/NDF : 12029499.5/62

All: 1141.494+/-0.103 χ^2/NDF : 25236078.4/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -28.953 ± 2.268 χ^2/NDF : 374.4/34

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

Right Out: -0.122 ± 2.179 χ^2/NDF : 771.7/37

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

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

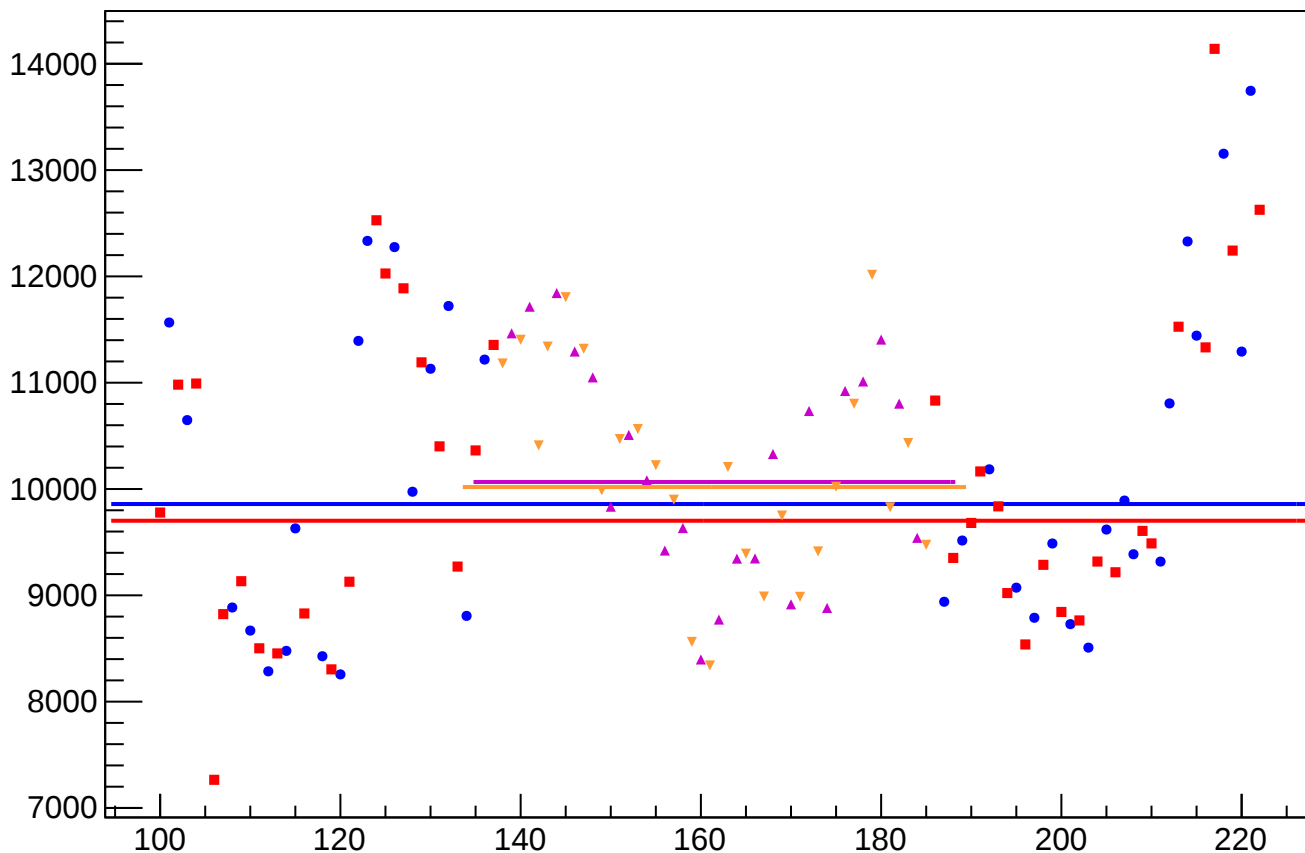
Right: -13.964 ± 1.571 χ^2/NDF : 1230.1/72

In: -21.793 ± 1.662 χ^2/NDF : 417.5/57

Out: -4.394 ± 1.601 χ^2/NDF : 806.3/62

All: -12.766 ± 1.153 χ^2/NDF : 1280.6/120

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9858.772 $\pm$ 1.604 χ^2/NDF : 667371.7/34

Left Out: 10018.563 $\pm$ 1.668 χ^2/NDF : 344534.6/24

Right Out: 9701.707 $\pm$ 1.541 χ^2/NDF : 743407.0/37

Left In: 10065.909 $\pm$ 1.727 χ^2/NDF : 357868.9/22

Left: 10041.404 $\pm$ 1.200 χ^2/NDF : 702792.3/47

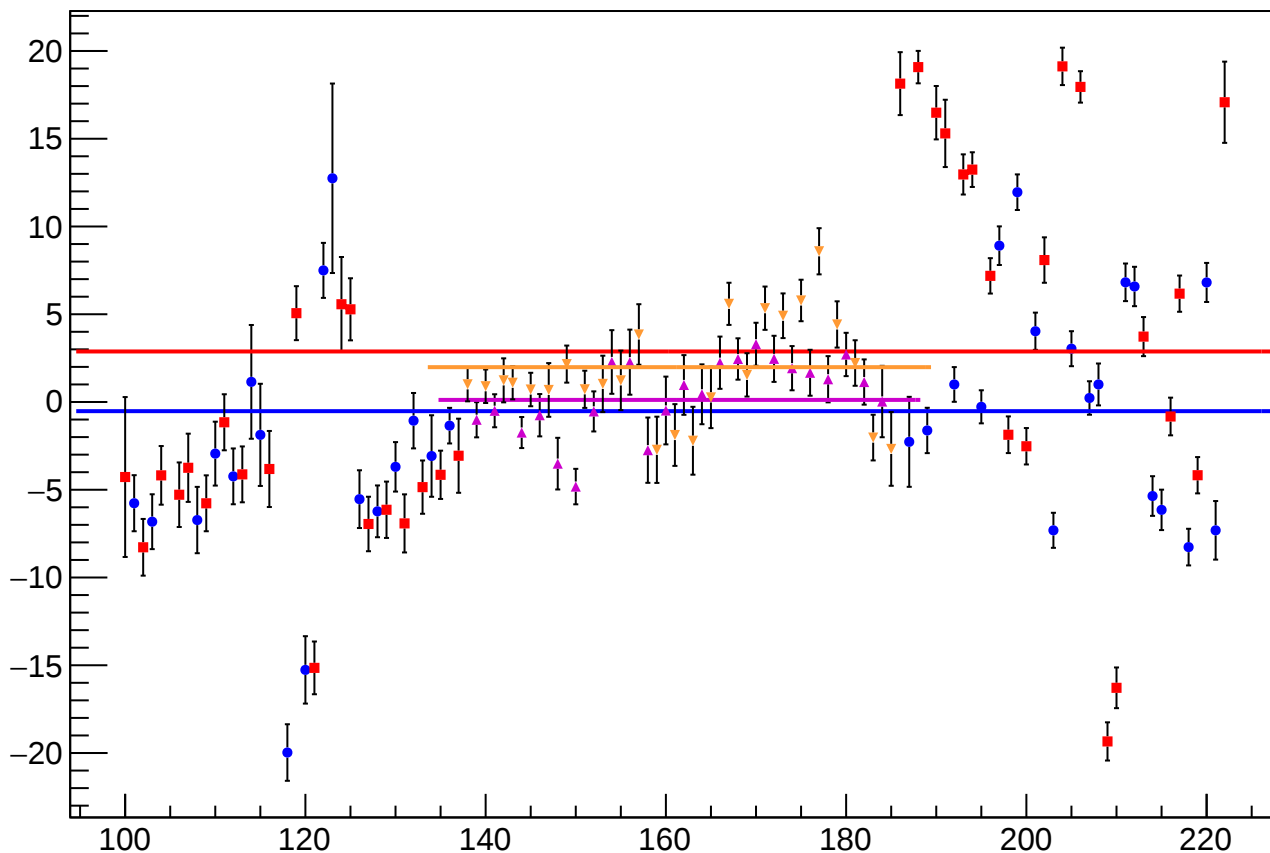
Right: 9777.113 $\pm$ 1.111 χ^2/NDF : 1415766.2/72

In: 9954.658 $\pm$ 1.175 χ^2/NDF : 1032964.0/57

Out: 9847.644 $\pm$ 1.132 χ^2/NDF : 1107413.9/62

All: 9899.136 $\pm$ 0.815 χ^2/NDF : 2144679.8/12

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.522 ± 0.220 $\chi^2/\text{NDF}: 865.9/34$

Left Out: 1.985 ± 0.255 $\chi^2/\text{NDF}: 101.2/24$

Right Out: 2.879 ± 0.217 $\chi^2/\text{NDF}: 2563.5/37$

Left In: 0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

Left: 1.102 ± 0.185 $\chi^2/\text{NDF}: 194.2/47$

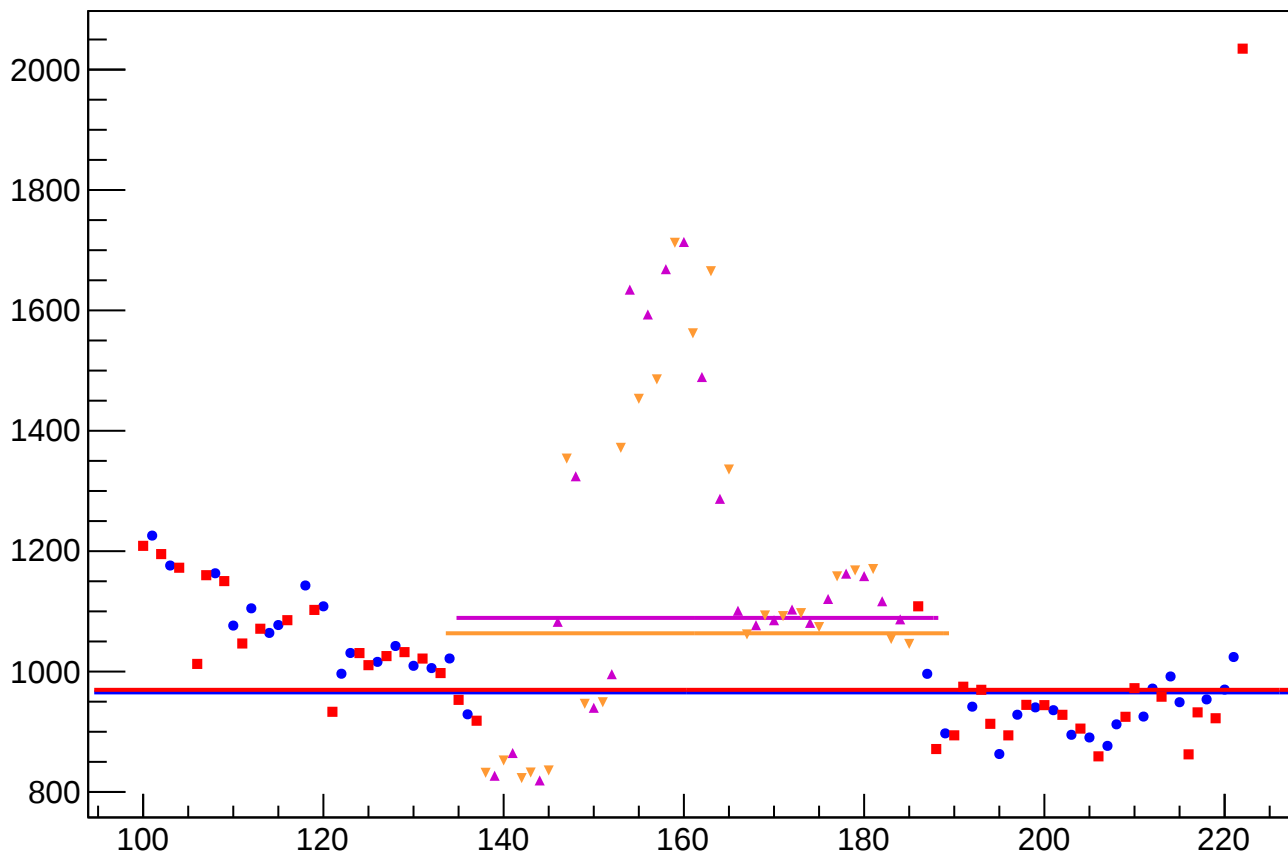
Right: 1.203 ± 0.154 $\chi^2/\text{NDF}: 3550.6/72$

In: -0.264 ± 0.170 $\chi^2/\text{NDF}: 936.9/57$

Out: 2.503 ± 0.165 $\chi^2/\text{NDF}: 2671.8/62$

All: 1.161 ± 0.119 $\chi^2/\text{NDF}: 3744.9/120$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 965.389 ± 0.156 χ^2/NDF : 275339.4/34

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

Right Out: 969.671 ± 0.153 χ^2/NDF : 720030.5/37

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

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

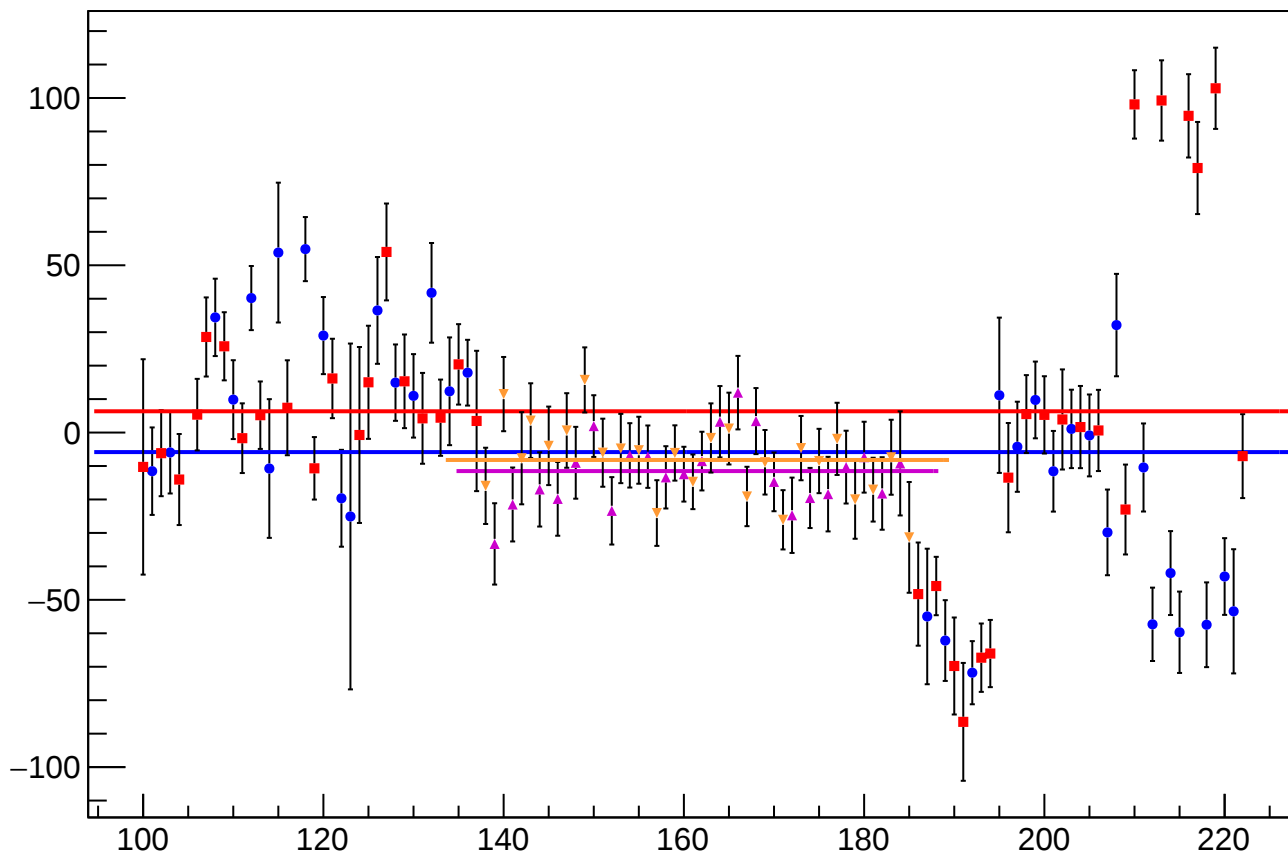
Right: 967.561 ± 0.109 χ^2/NDF : 995754.2/72

In: 1015.055 ± 0.120 χ^2/NDF : 1959875.3/57

Out: 1009.121 ± 0.117 χ^2/NDF : 2495032.7/62

All: 1011.998 ± 0.084 χ^2/NDF : 4456160.3/12

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -5.838 ± 2.163 χ^2/NDF : 298.2/34

Left Out: -8.195 ± 2.049 χ^2/NDF : 26.2/24

Right Out: 6.358 ± 2.016 χ^2/NDF : 525.6/37

Left In: -11.515 ± 2.122 χ^2/NDF : 21.0/22

Left: -9.796 ± 1.474 χ^2/NDF : 48.5/47

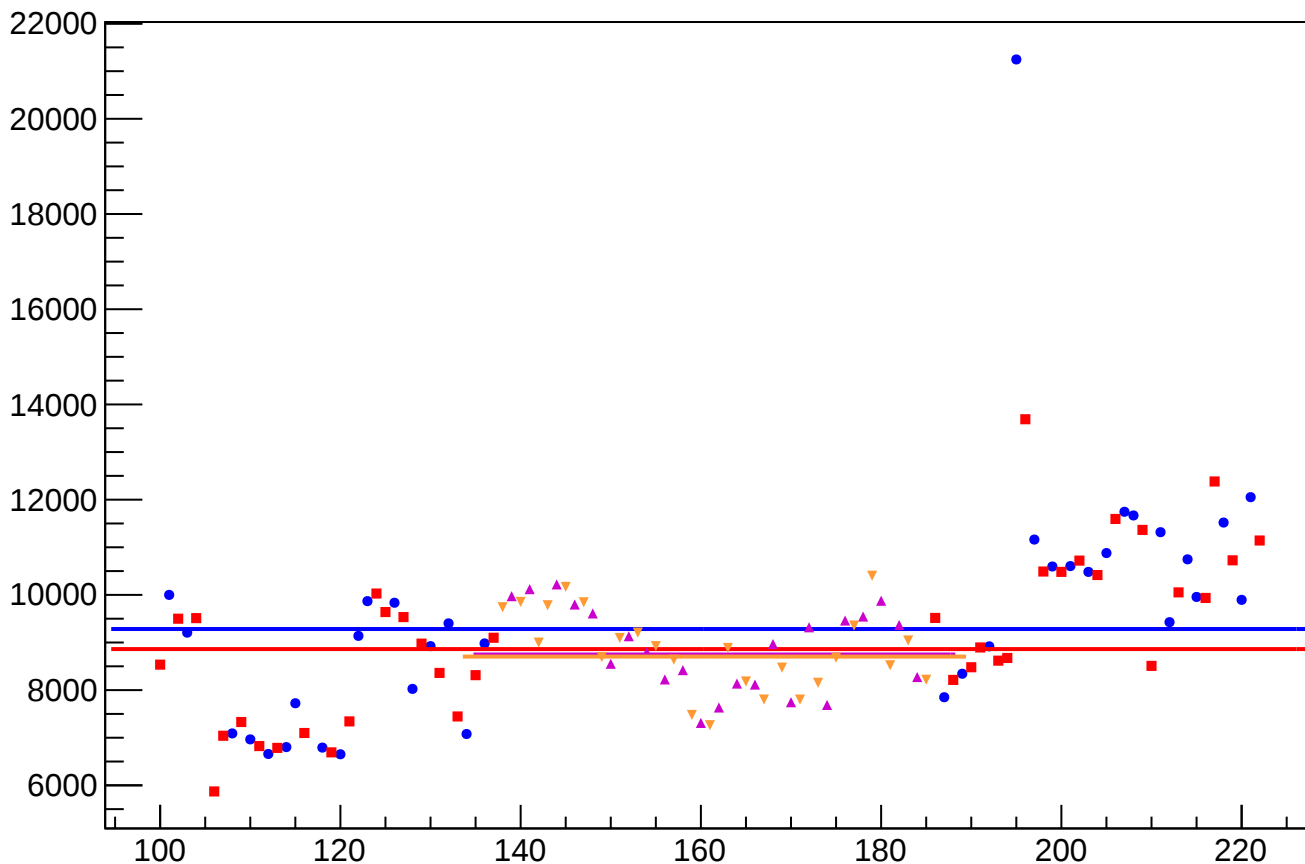
Right: 0.688 ± 1.475 χ^2/NDF : 840.9/72

In: -8.731 ± 1.515 χ^2/NDF : 322.8/57

Out: -0.803 ± 1.437 χ^2/NDF : 577.4/62

All: -4.558 ± 1.043 χ^2/NDF : 914.6/120

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9283.314+/-1.530 χ^2/NDF : 1670119.9/34

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

Right Out: 8861.757+/-1.426 χ^2/NDF : 1428160.9/37

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

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

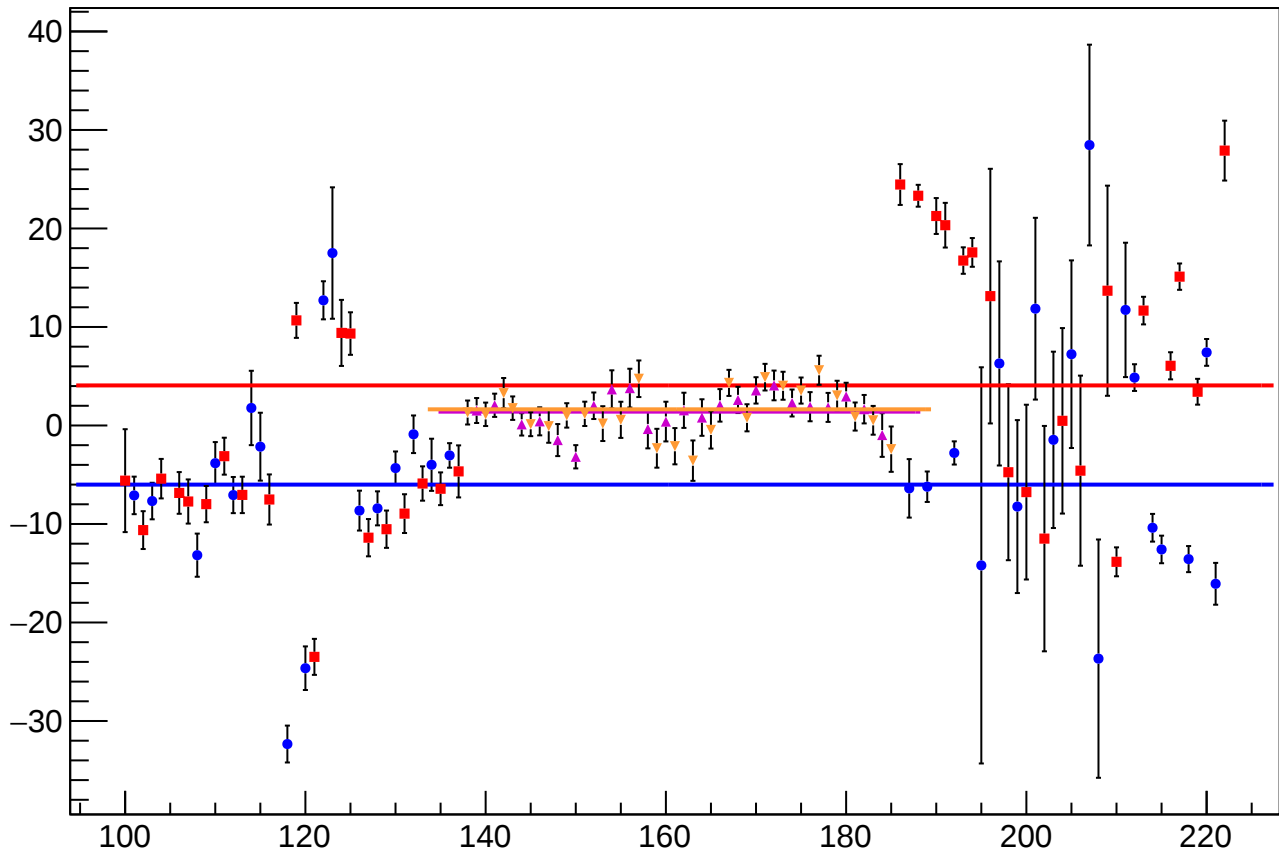
Right: 9057.740+/-1.043 χ^2/NDF : 3138917.2/72

In: 9010.236+/-1.071 χ^2/NDF : 2079767.6/57

Out: 8784.222+/-1.016 χ^2/NDF : 1766534.1/62

All: 8891.268+/-0.737 χ^2/NDF : 3869731.0/12

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.003±/0.344 χ^2/NDF : 695.4/34

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

Right Out: 4.066±/0.317 χ^2/NDF : 1785.6/37

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

Left: 1.528±/0.213 χ^2/NDF : 85.8/47

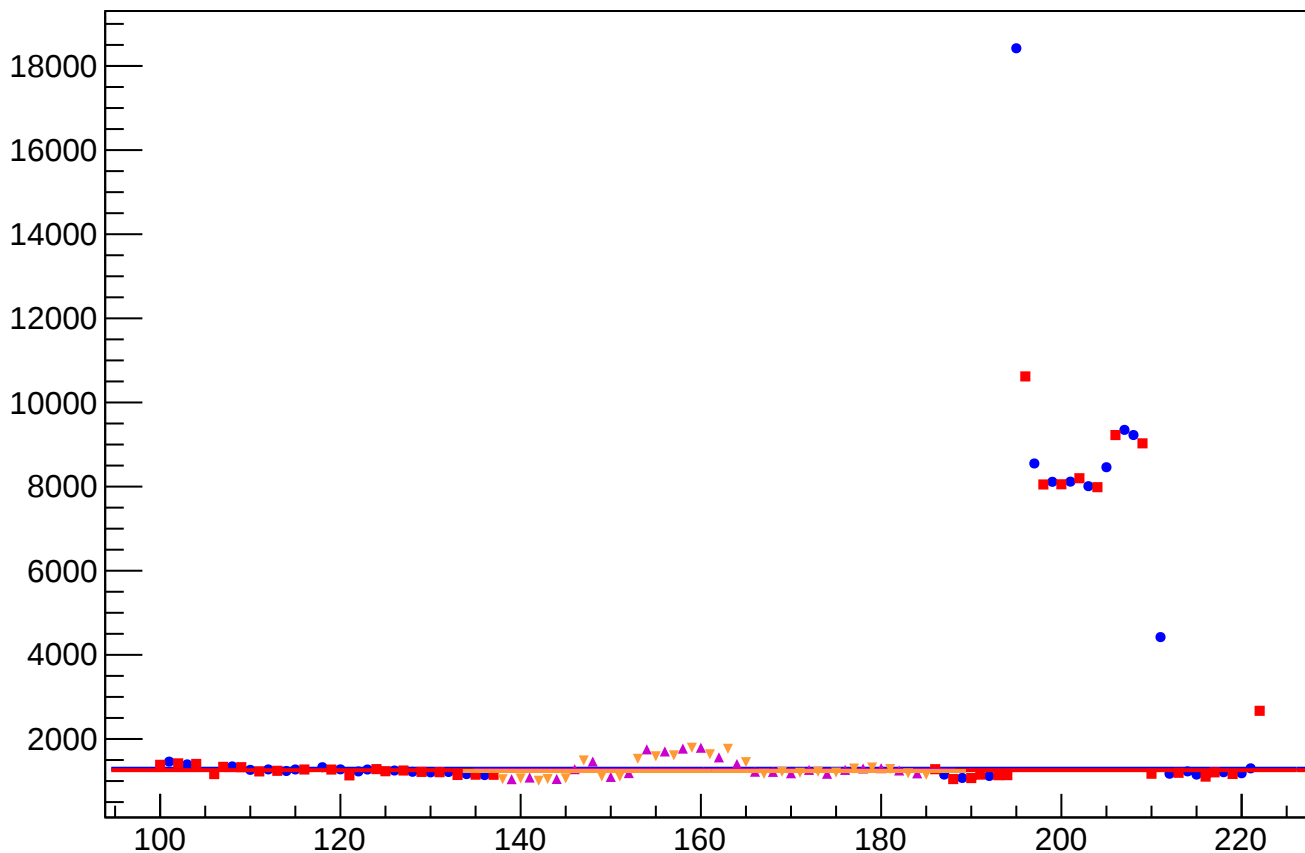
Right: -0.557±/0.233 χ^2/NDF : 2944.7/72

In: -1.905±/0.230 χ^2/NDF :986.3/57

Out: 2.760±/0.215 χ^2/NDF :1868.4/62

All: 0.579±/0.157 χ^2/NDF : 3074.1/120

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1292.666 $\pm$ 0.243 χ^2 /NDF: 9744950.3/34

Left Out: 1238.437 $\pm$ 0.208 χ^2 /NDF: 965173.0/24

Right Out: 1258.654 $\pm$ 0.224 χ^2 /NDF: 8236132.0/37

Left In: 1265.673 $\pm$ 0.218 χ^2 /NDF: 845157.0/22

Left: 1251.361 $\pm$ 0.151 χ^2 /NDF: 1818496.6/47

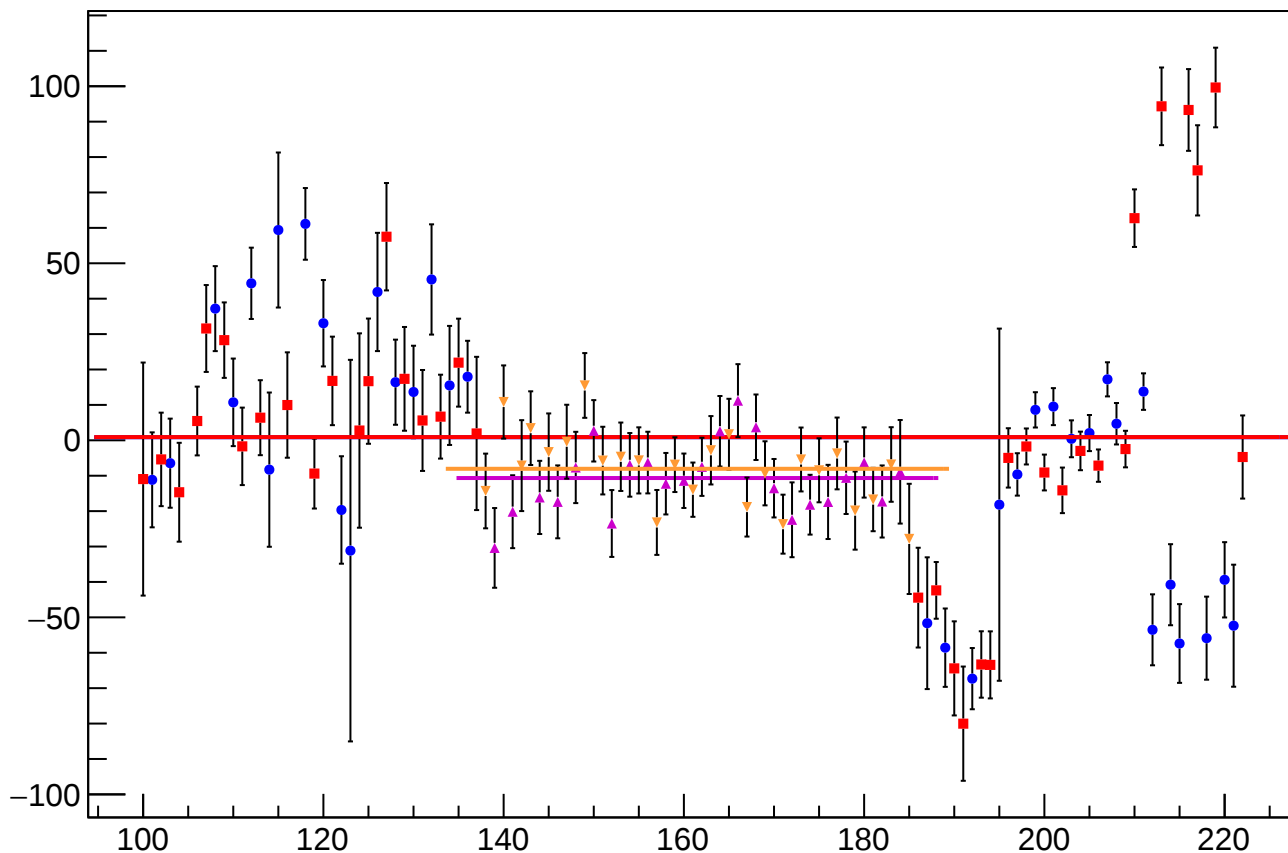
Right: 1274.271 $\pm$ 0.165 χ^2 /NDF: 17991664.0/72

In: 1277.731 $\pm$ 0.163 χ^2 /NDF: 10596925.6/57

Out: 1247.777 $\pm$ 0.152 χ^2 /NDF: 9205685.9/62

All: 1261.781 $\pm$ 0.111 χ^2 /NDF: 19820700.8/1

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.866 ± 1.484 $\chi^2/\text{NDF}: 344.9/34$

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

Right Out: 0.910 ± 1.490 $\chi^2/\text{NDF}: 540.1/37$

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

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

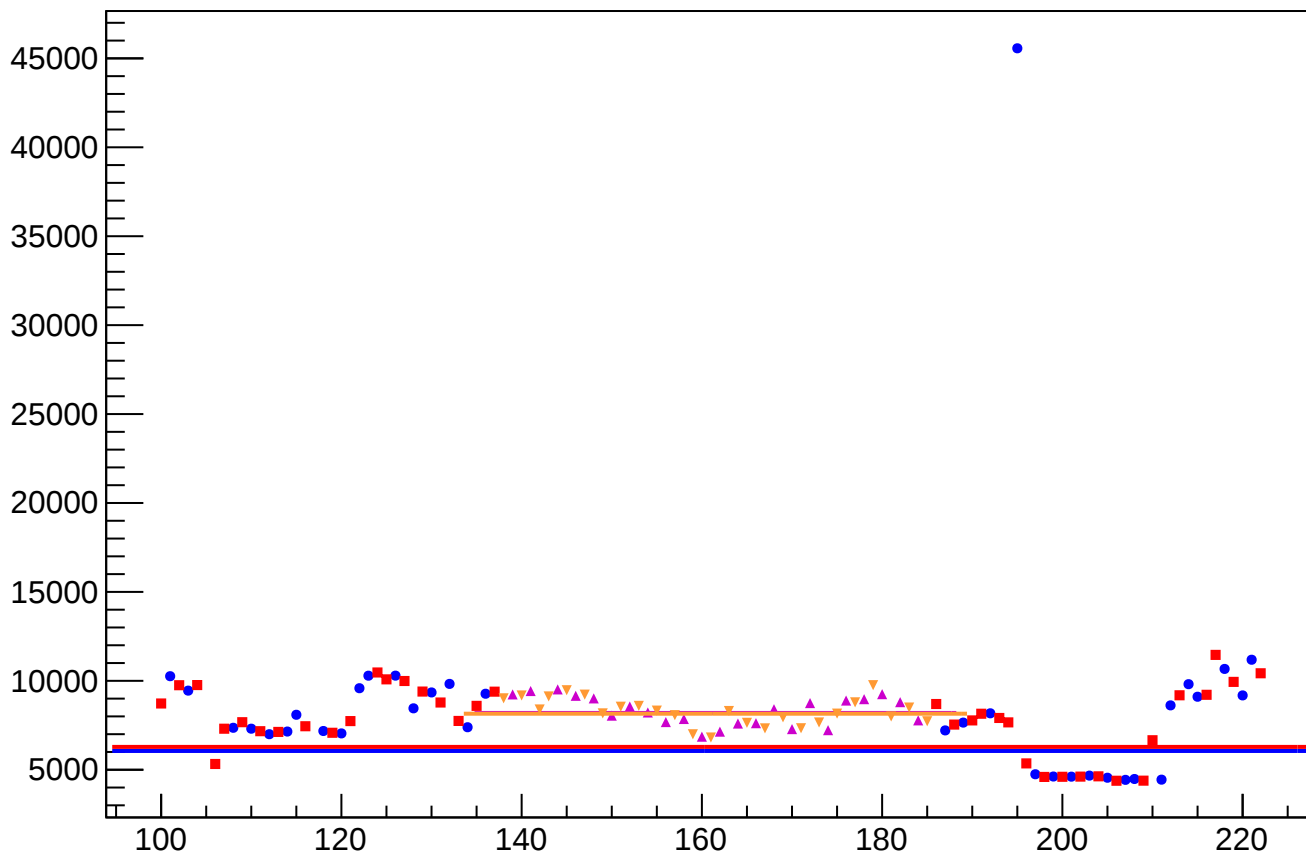
Right: 0.888 ± 1.051 $\chi^2/\text{NDF}: 885.0/72$

In: -3.256 ± 1.189 $\chi^2/\text{NDF}: 387.9/57$

Out: -2.458 ± 1.176 $\chi^2/\text{NDF}: 580.0/62$

All: -2.853 ± 0.836 $\chi^2/\text{NDF}: 968.1/120$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6056.327+/-1.049

χ^2/NDF : 5135783.6/34

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

Right: 6170.195+/-0.743 χ^2/NDF : 8855478.1/72

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

In: 6821.210+/-0.841 χ^2/NDF : 6959213.4/57

Right Out: 6284.949+/-1.053

χ^2/NDF : 3696046.3/37

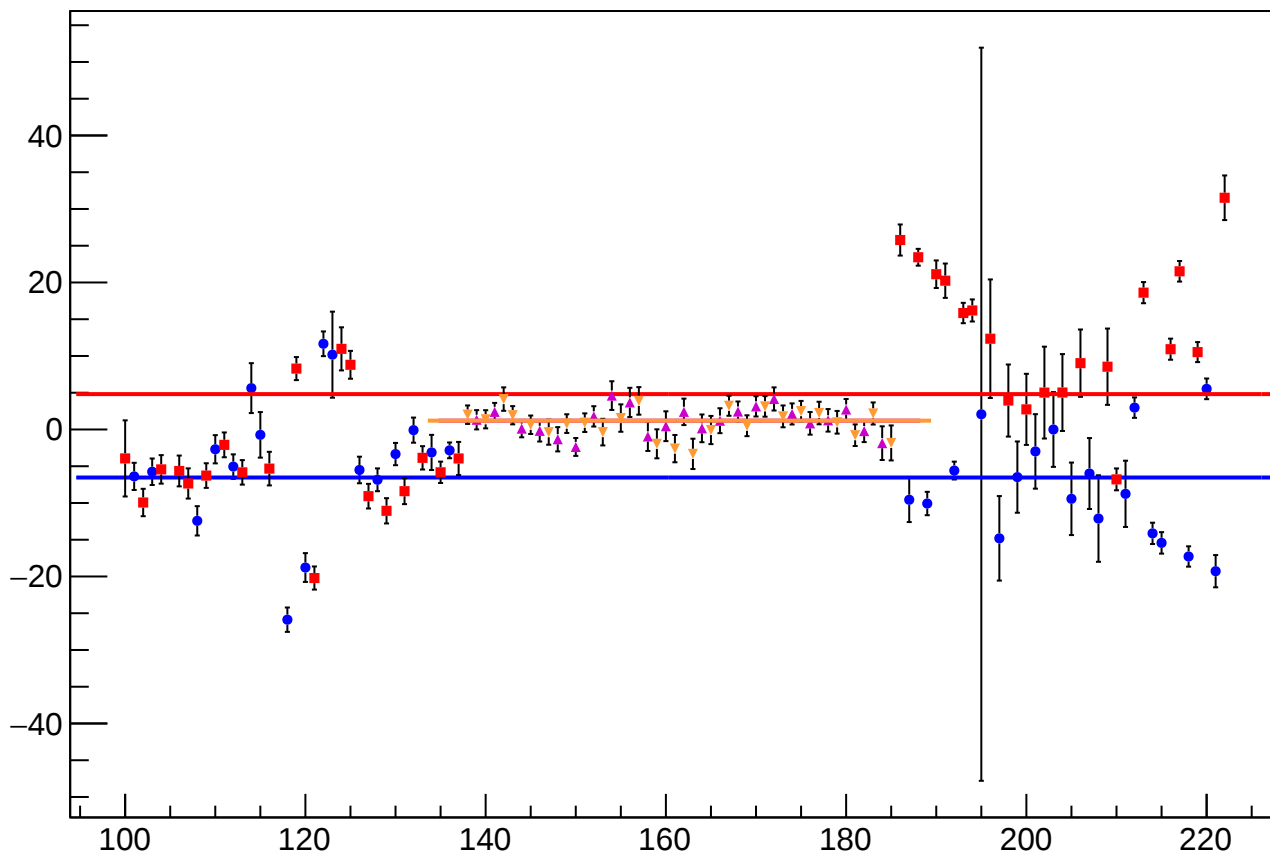
Out: 6987.118+/-0.832 χ^2/NDF : 5199237.0/62

Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

All: 6905.043+/-0.591 χ^2/NDF : 12178126.5/1

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.536±/0.326 χ^2/NDF : 654.8/34

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

Right Out: 4.812±/0.304 χ^2/NDF : 1863.4/37

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

Left: 1.201±/0.219 χ^2/NDF : 61.1/47

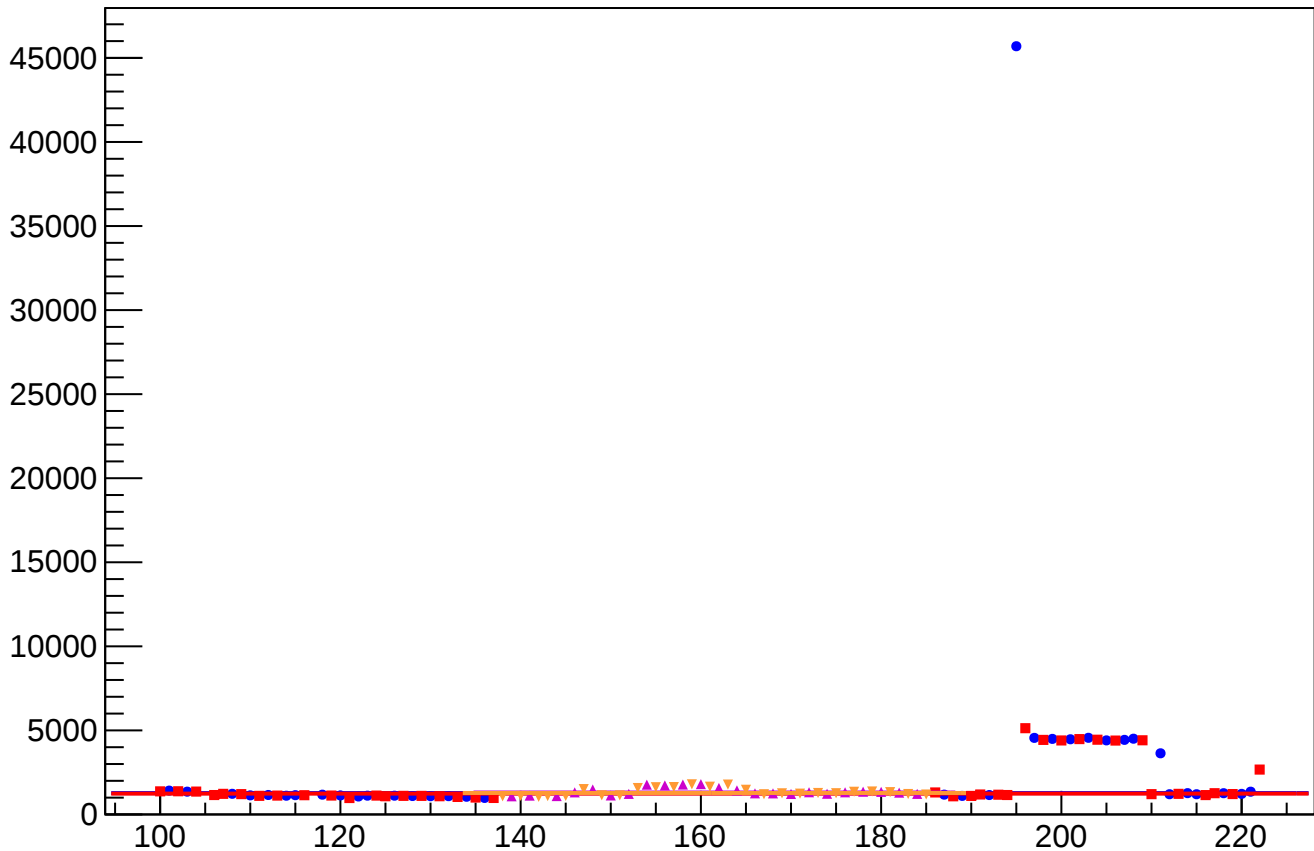
Right: -0.461±/0.222 χ^2/NDF : 3167.3/72

In: -2.576±/0.228 χ^2/NDF :974.3/57

Out: 3.001±/0.214 χ^2/NDF :1964.3/62

All: 0.381±/0.156 χ^2/NDF : 3256.7/120

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1271.545 $\pm$ 0.230 χ^2 /NDF: 7982638.9/34

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

Right Out: 1239.858 $\pm$ 0.215 χ^2 /NDF: 5955899.4/37

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

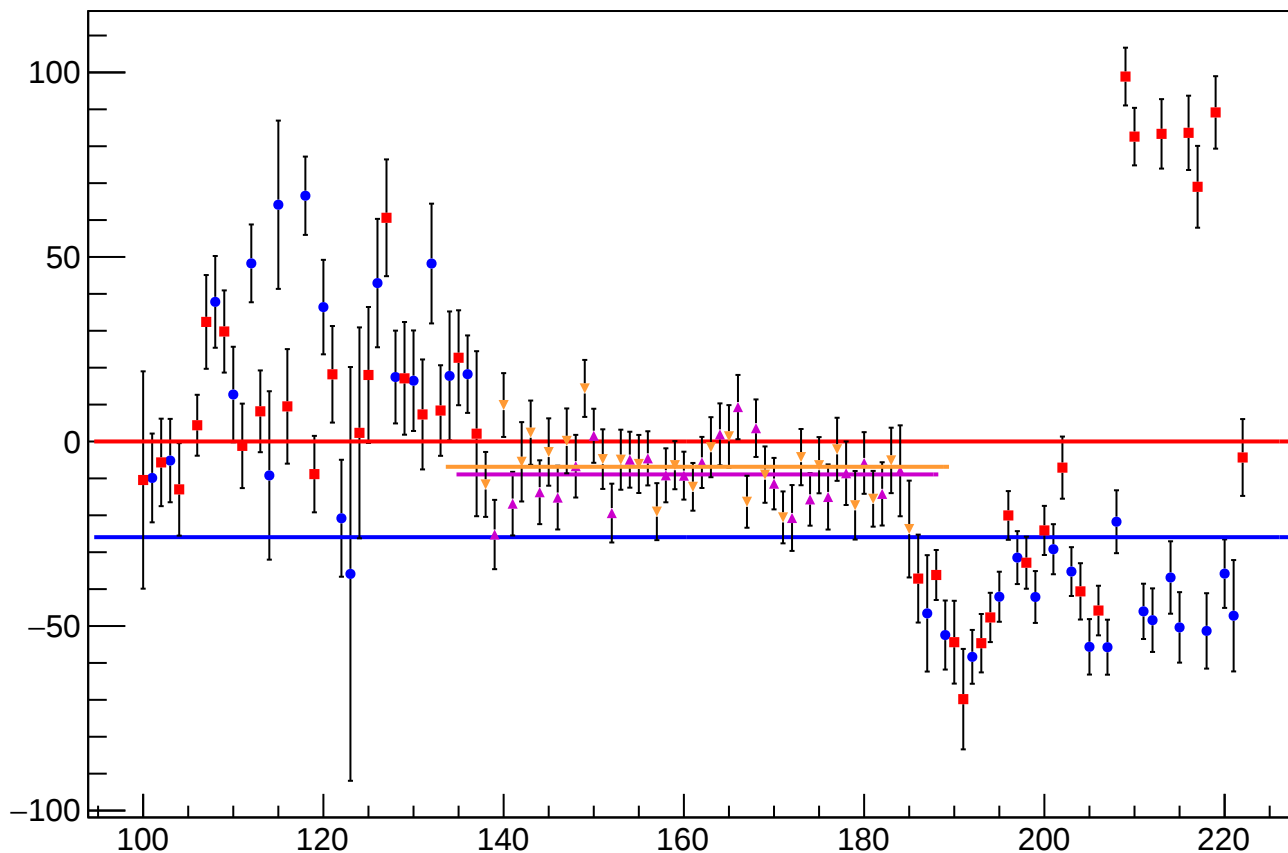
Right: 1254.582 $\pm$ 0.157 χ^2 /NDF: 13948659.4/72

In: 1288.952 $\pm$ 0.161 χ^2 /NDF: 8754232.7/57

Out: 1258.962 $\pm$ 0.152 χ^2 /NDF: 6849799.6/62

All: 1273.050 $\pm$ 0.110 χ^2 /NDF: 15622435.9/131

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -25.925 $\pm$ 1.670 χ^2/NDF : 394.4/34

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

Right Out: 0.008 $\pm$ 1.598 χ^2/NDF : 886.9/37

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

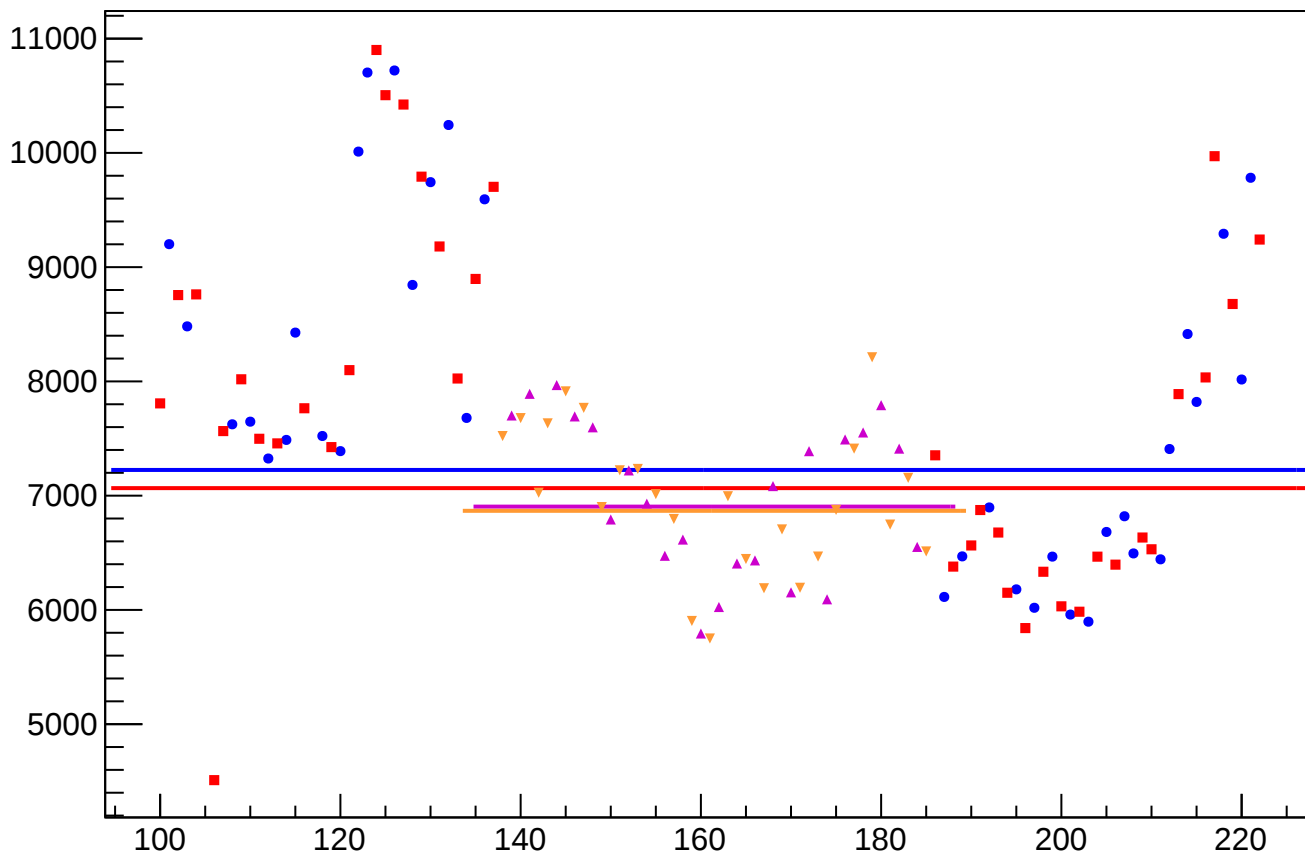
Right: -12.385 $\pm$ 1.155 χ^2/NDF : 1407.2/72

In: -17.445 $\pm$ 1.182 χ^2/NDF : 467.9/57

Out: -3.385 $\pm$ 1.136 χ^2/NDF : 924.7/62

All: -10.134 $\pm$ 0.819 χ^2/NDF : 1466.1/120

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7225.045 ± 1.181 $\chi^2/\text{NDF}: 1064834.5/34$

Left Out: 6867.371 ± 1.142 $\chi^2/\text{NDF}: 306895.0/24$

Right Out: 7065.922 ± 1.130 $\chi^2/\text{NDF}: 1293316.0/37$

Left In: 6904.117 ± 1.184 $\chi^2/\text{NDF}: 325912.6/22$

Left: 6885.088 ± 0.822 $\chi^2/\text{NDF}: 633306.5/47$

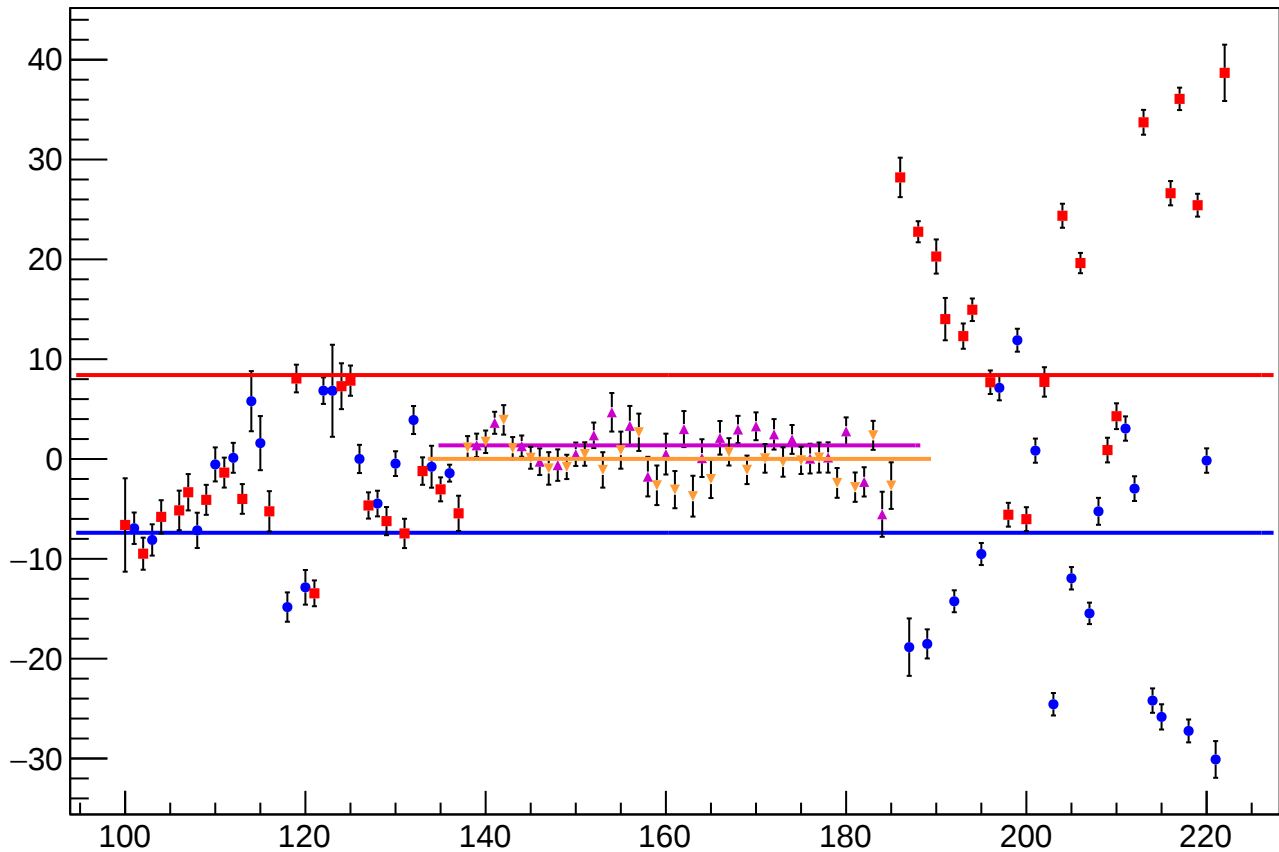
Right: 7141.965 ± 0.816 $\chi^2/\text{NDF}: 2367630.0/72$

In: 7064.987 ± 0.836 $\chi^2/\text{NDF}: 1427580.1/57$

Out: 6967.743 ± 0.803 $\chi^2/\text{NDF}: 1615482.4/62$

All: 7014.420 ± 0.579 $\chi^2/\text{NDF}: 3050096.7/12$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -7.389 ± 0.229 χ^2/NDF : 2282.6/34

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

Right Out: 8.410 ± 0.227 χ^2/NDF : 3925.8/37

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

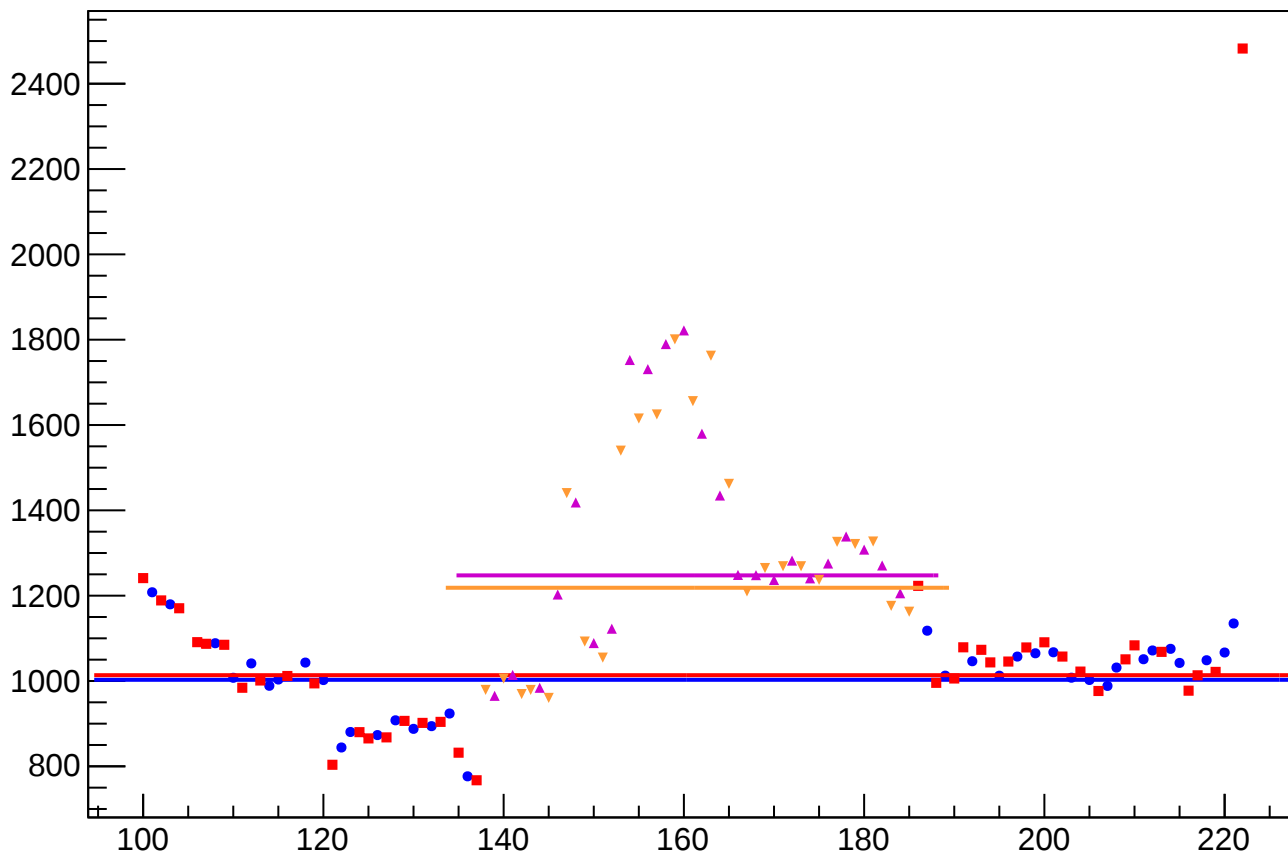
Right: 0.565 ± 0.161 χ^2/NDF : 8610.5/72

In: -4.244 ± 0.183 χ^2/NDF : 2847.3/57

Out: 5.216 ± 0.179 χ^2/NDF : 4480.4/62

All: 0.598 ± 0.128 χ^2/NDF : 8694.4/120

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 1002.790 $\pm$ 0.162 χ^2 /NDF: 359661.1/34

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

Right Out: 1013.607 $\pm$ 0.161 χ^2 /NDF: 887944.2/37

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

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

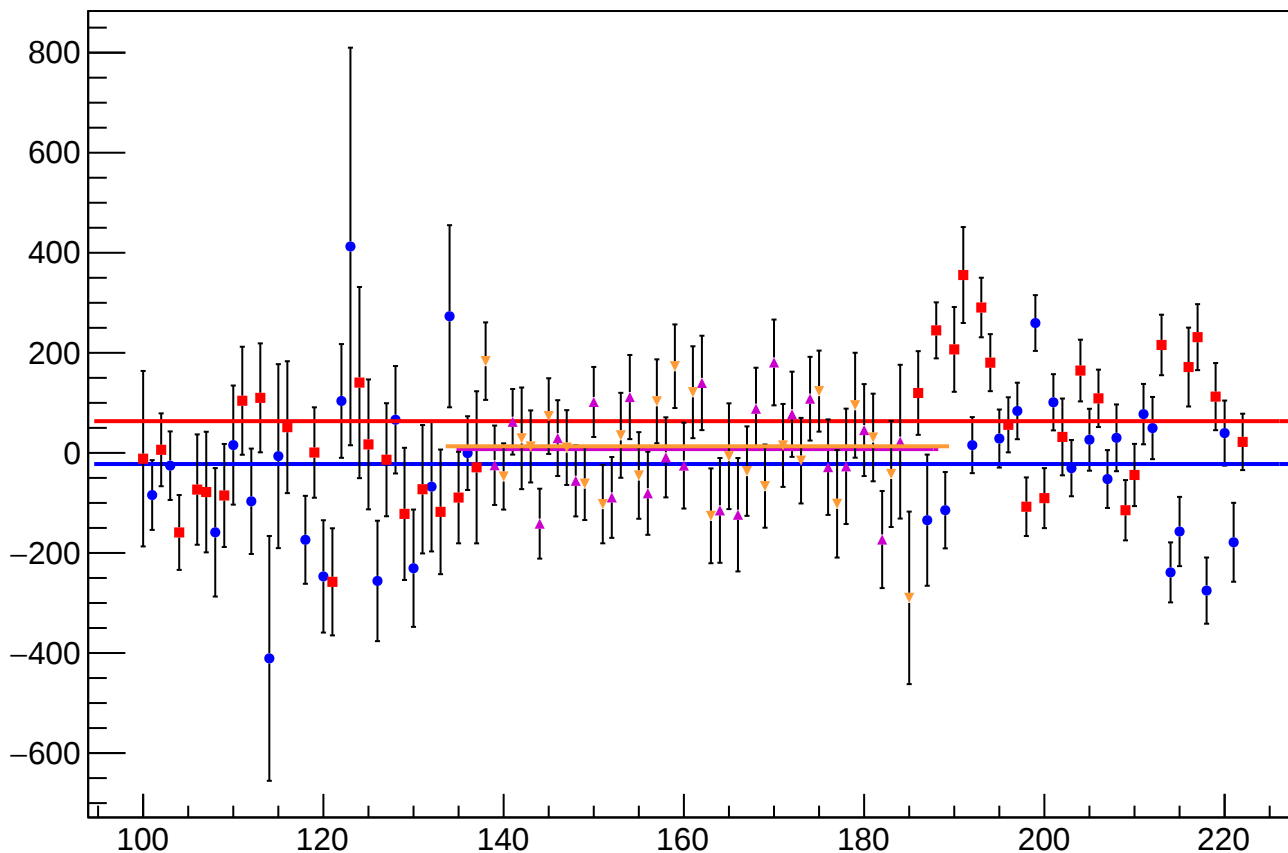
Right: 1008.235 $\pm$ 0.114 χ^2 /NDF: 1249857.6/72

In: 1090.693 $\pm$ 0.129 χ^2 /NDF:2255673.2/57

Out: 1091.555 $\pm$ 0.126 χ^2 /NDF:2773004.2/62

All: 1091.134 $\pm$ 0.090 χ^2 /NDF: 5028700.1/12

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -22.250 ± 12.880 χ^2/NDF : 104.1/34

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

Right Out: 63.436 ± 12.634 χ^2/NDF : 121.6/37

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

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

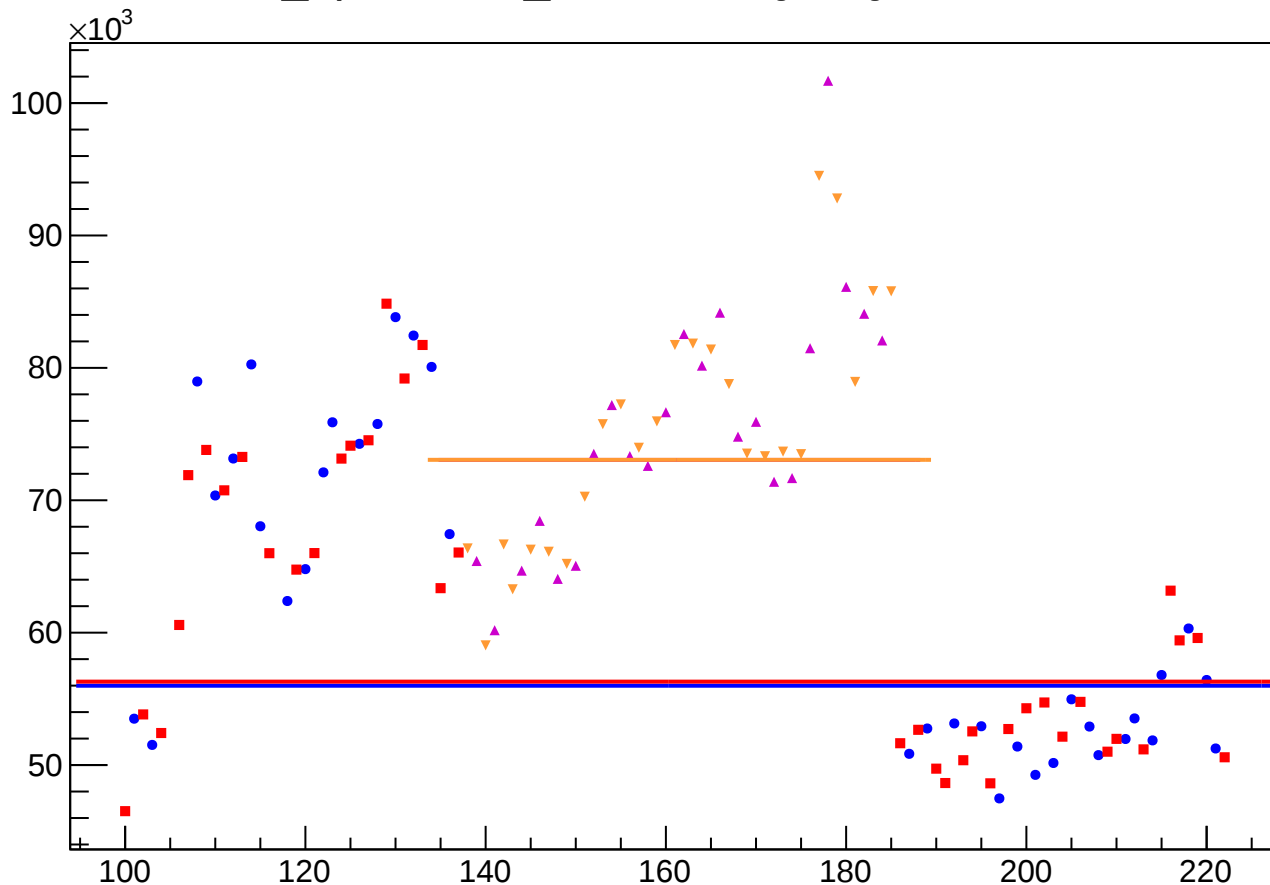
Right: 21.421 ± 9.019 χ^2/NDF : 248.3/72

In: -11.887 ± 10.409 χ^2/NDF : 134.1/57

Out: 45.761 ± 10.171 χ^2/NDF : 154.0/62

All: 17.603 ± 7.275 χ^2/NDF : 303.8/120

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 55993.014 $\pm$ 9.108

χ^2/NDF : 830110.8/34

Left: 73050.085 $\pm$ 8.701

χ^2/NDF : 936576.6/47

Left Out: 73054.401 $\pm$ 12.124

χ^2/NDF : 473050.9/24

Right: 56150.239 $\pm$ 6.378

χ^2/NDF : 1646491.7/72

Right Out: 56301.506 $\pm$ 8.934

χ^2/NDF : 815796.2/37

In: 61909.297 $\pm$ 7.360

χ^2/NDF : 2509831.5/57

Out: 62196.642 $\pm$ 7.192

χ^2/NDF : 2526294.3/62

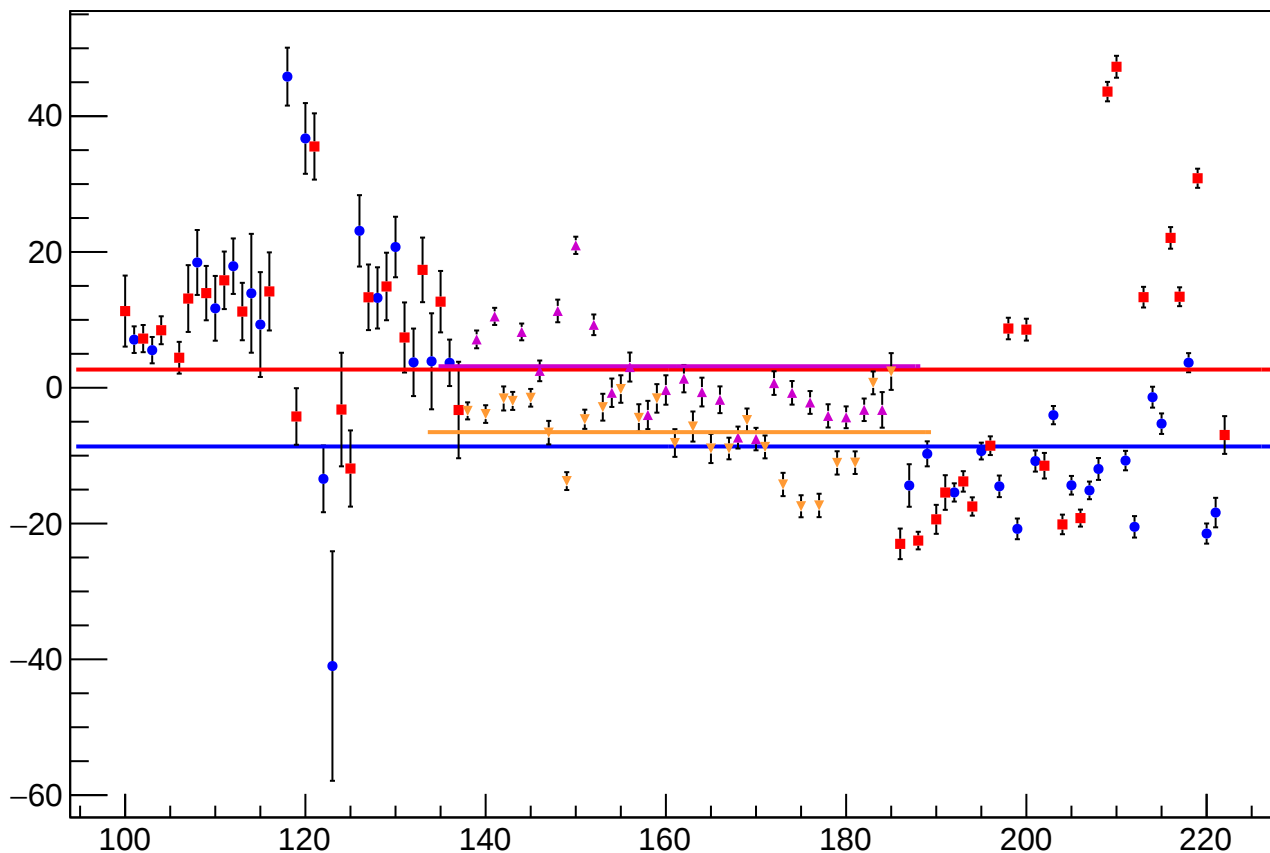
Left In: 73045.500 $\pm$ 12.496

χ^2/NDF : 463525.5/22

All: 62056.290 $\pm$ 5.144

χ^2/NDF : 5036905.5/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.649 ± 0.334 $\chi^2/\text{NDF}: 1015.1/34$

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

Right Out: 2.683 ± 0.333 $\chi^2/\text{NDF}: 4090.9/37$

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

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

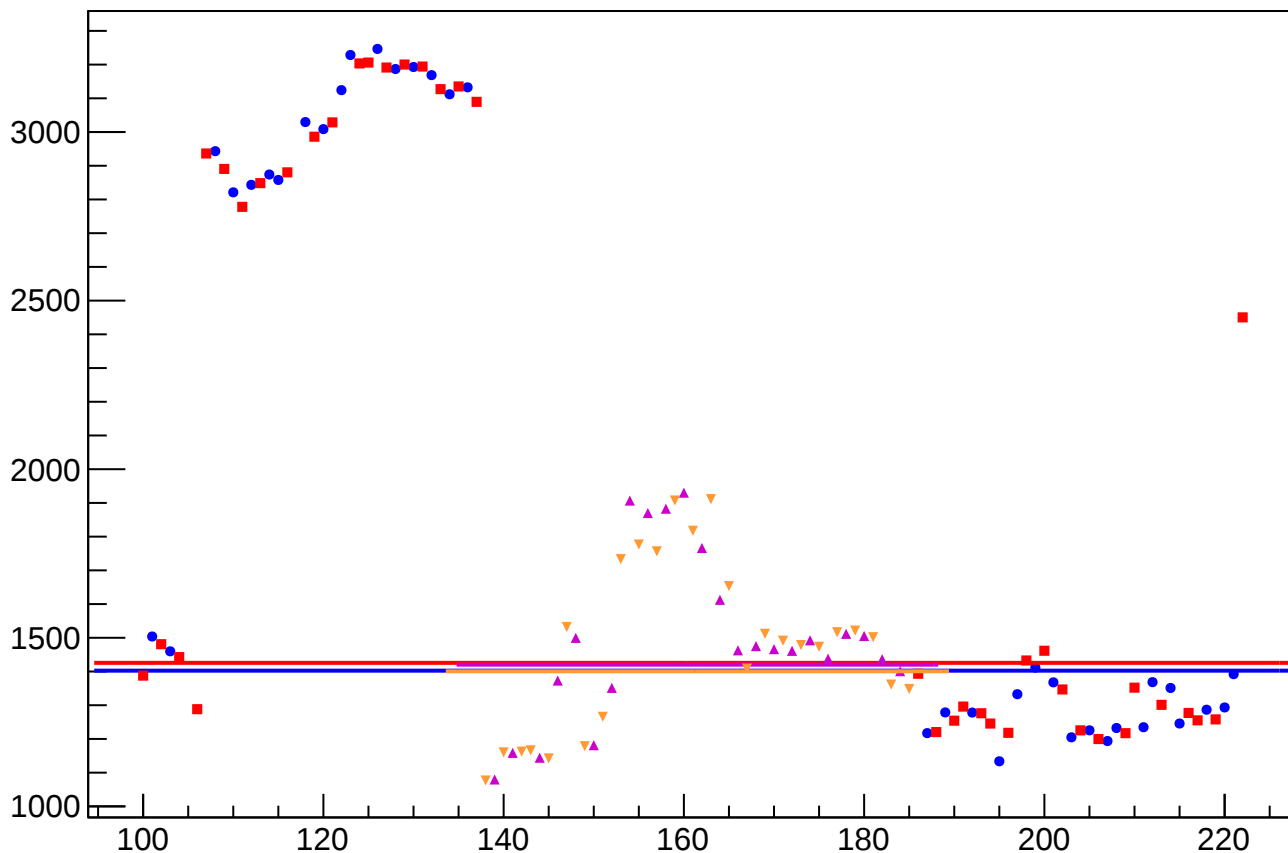
Right: -2.951 ± 0.236 $\chi^2/\text{NDF}: 5683.3/72$

In: -2.948 ± 0.241 $\chi^2/\text{NDF}: 2105.0/57$

Out: -1.937 ± 0.235 $\chi^2/\text{NDF}: 4728.8/62$

All: -2.430 ± 0.168 $\chi^2/\text{NDF}: 6842.8/120$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1402.513+/-0.236 χ^2/NDF : 3639823.5/34

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

Right Out: 1425.673+/-0.235 χ^2/NDF : 3903981.3/37

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

Left: 1410.037+/-0.169 χ^2/NDF : 1946462.8/47

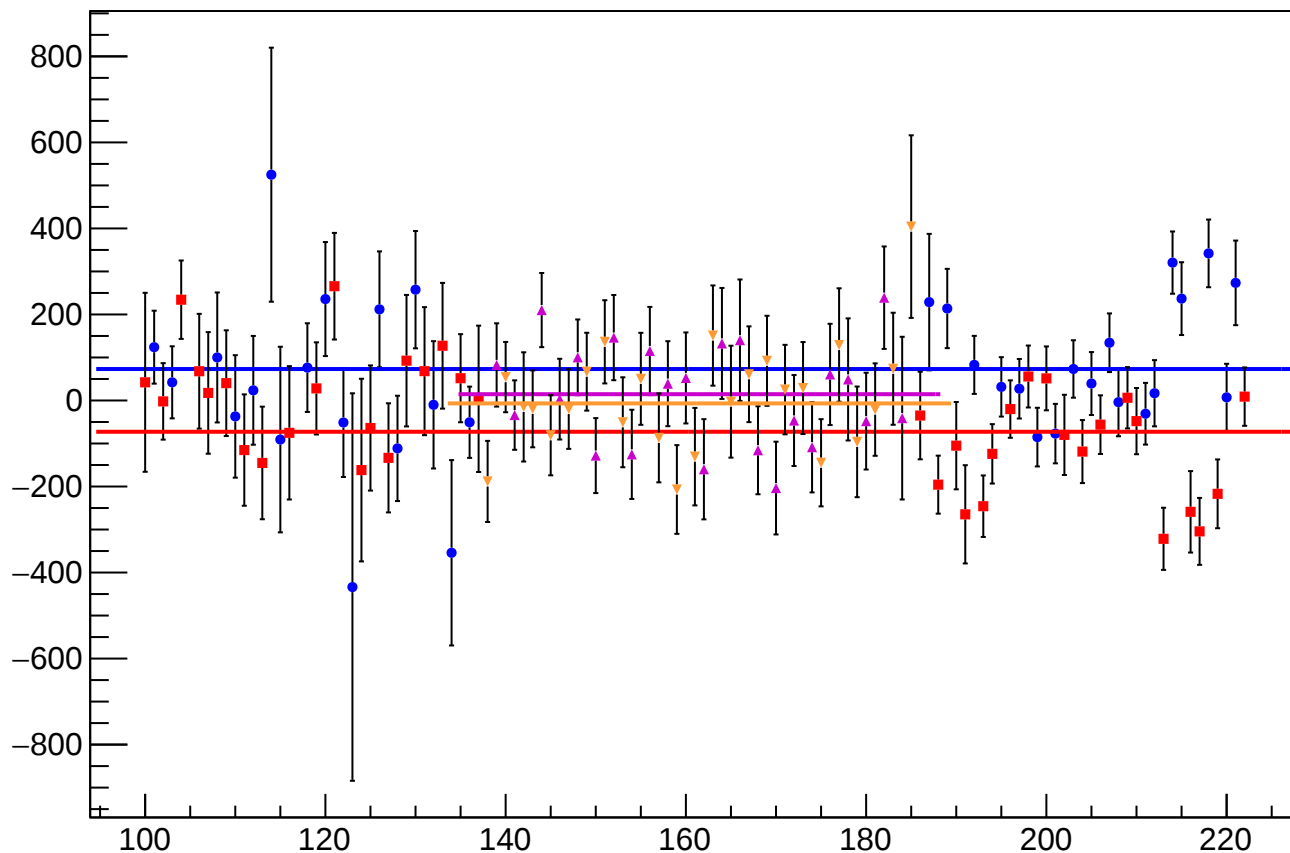
Right: 1414.158+/-0.167 χ^2/NDF : 7548628.2/72

In: 1411.085+/-0.170 χ^2/NDF : 4547734.0/57

Out: 1413.128+/-0.166 χ^2/NDF : 4947583.7/62

All: 1412.131+/-0.119 χ^2/NDF : 9495391.6/12

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 73.127+/-15.421 χ^2/NDF : 70.4/34

Left Out: -6.789+/-21.213 χ^2/NDF : 24.7/24

Right Out: -72.710+/-15.129 χ^2/NDF : 79.9/37

Left In: 14.611+/-21.846 χ^2/NDF : 29.8/22

Left: 3.596+/-15.219 χ^2/NDF : 55.0/47

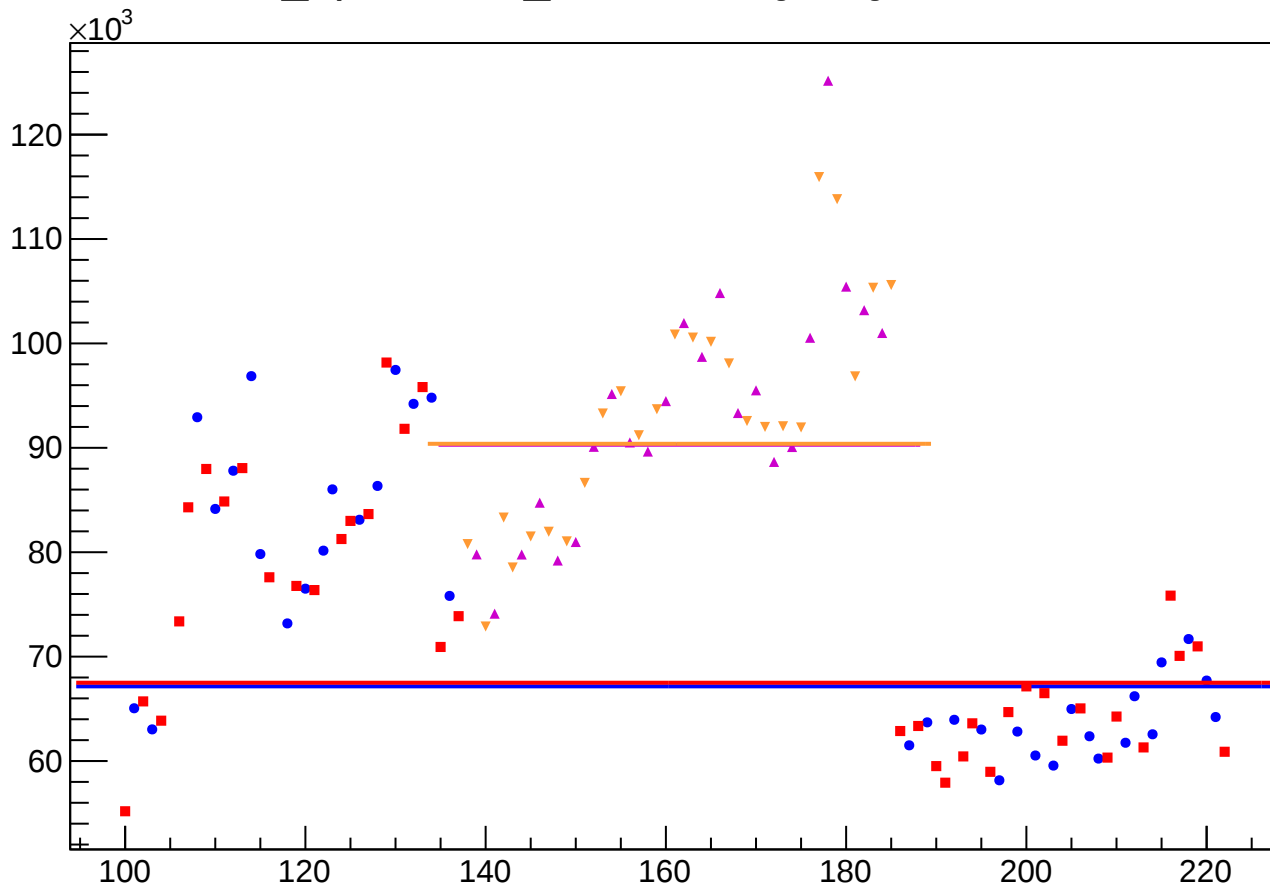
Right: -1.185+/-10.800 χ^2/NDF : 195.9/72

In: 53.666+/-12.599 χ^2/NDF : 105.0/57

Out: -50.484+/-12.317 χ^2/NDF : 111.0/62

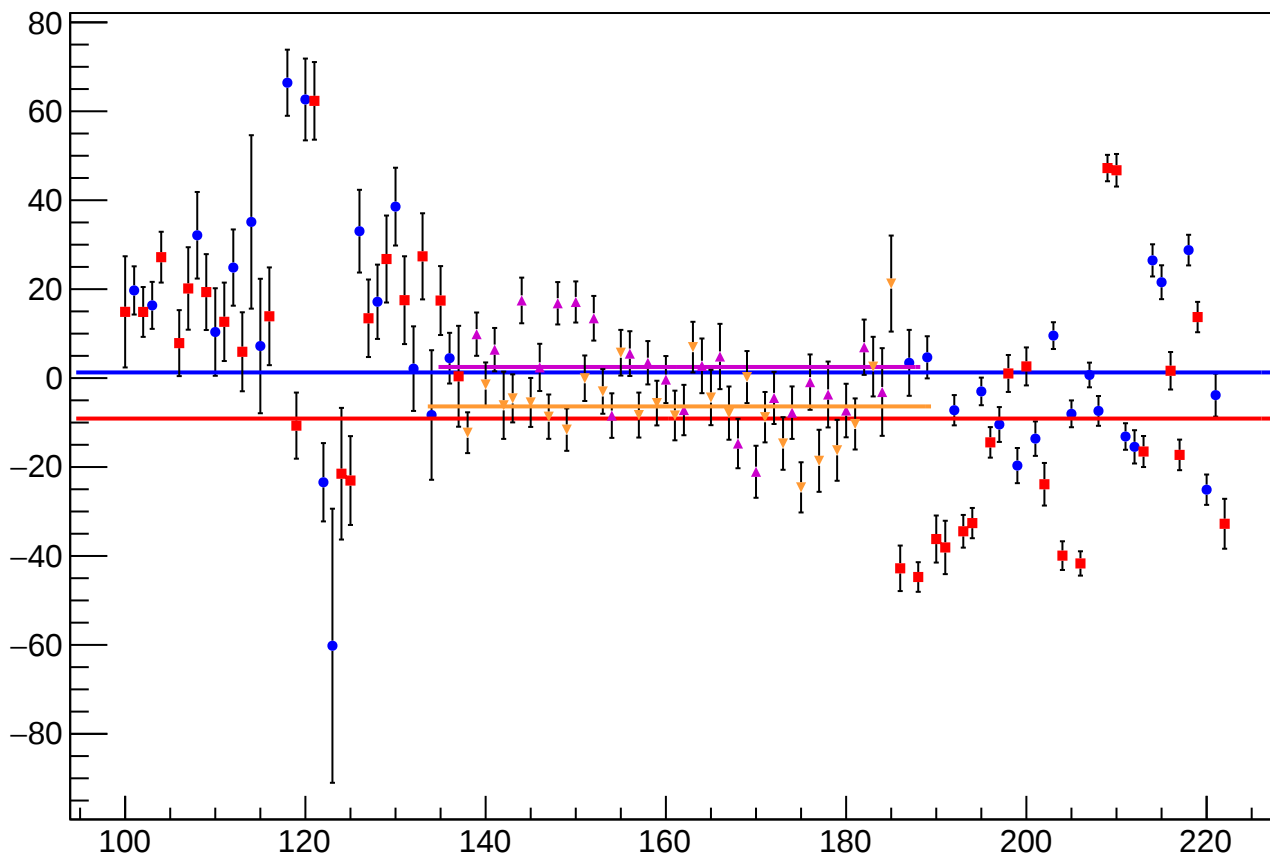
All: 0.416+/-8.807 χ^2/NDF : 250.9/120

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67152.397 $\pm$ 10.904	χ^2/NDF : 671939.4/34	Left: 90340.563 $\pm$ 10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853 $\pm$ 15.000	χ^2/NDF : 461648.2/24	Right: 67329.636 $\pm$ 7.637	χ^2/NDF : 1360744.3/72
Right Out: 67500.226 $\pm$ 10.698	χ^2/NDF : 688286.5/37	In: 74848.638 $\pm$ 8.909	χ^2/NDF : 2631075.9/57
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 75215.988 $\pm$ 8.710	χ^2/NDF : 2692762.4/62
		All: 75036.456 $\pm$ 6.228	χ^2/NDF : 5324707.7/131

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.273 $\pm$ 0.774 χ^2/NDF : 537.7/34

Left Out: -6.370 $\pm$ 1.124 χ^2/NDF : 45.5/24

Right Out: -9.100 $\pm$ 0.787 χ^2/NDF : 1458.7/37

Left In: 2.501 $\pm$ 1.156 χ^2/NDF : 78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47

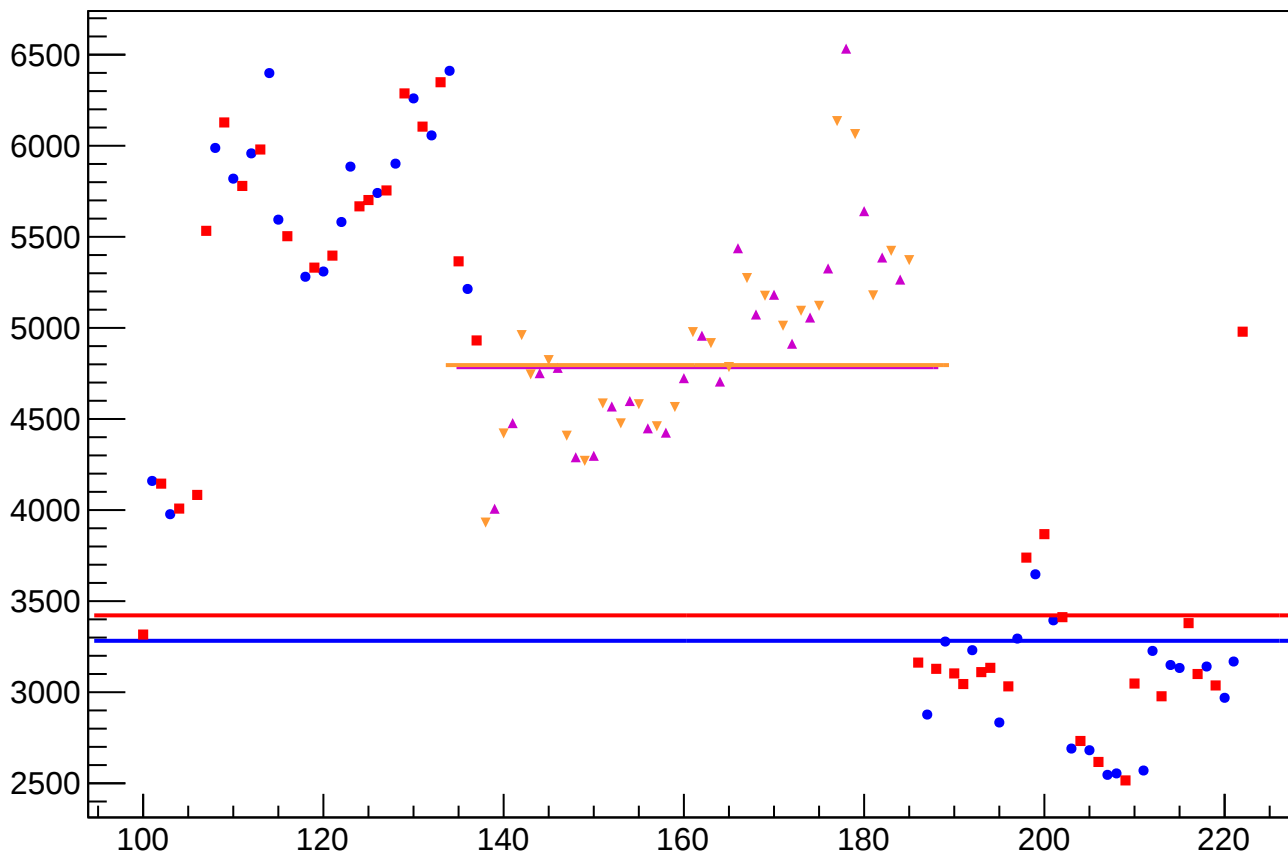
Right: -3.823 $\pm$ 0.552 χ^2/NDF : 2084.7/72

In: 1.653 $\pm$ 0.643 χ^2/NDF : 616.9/57

Out: -8.201 $\pm$ 0.645 χ^2/NDF : 1508.1/62

All: -3.259 $\pm$ 0.455 χ^2/NDF : 2242.1/120

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3282.249 $\pm$ 0.547 χ^2 /NDF: 2719202.5/34

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

Right Out: 3421.858 $\pm$ 0.557 χ^2 /NDF: 2771955.2/37

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

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

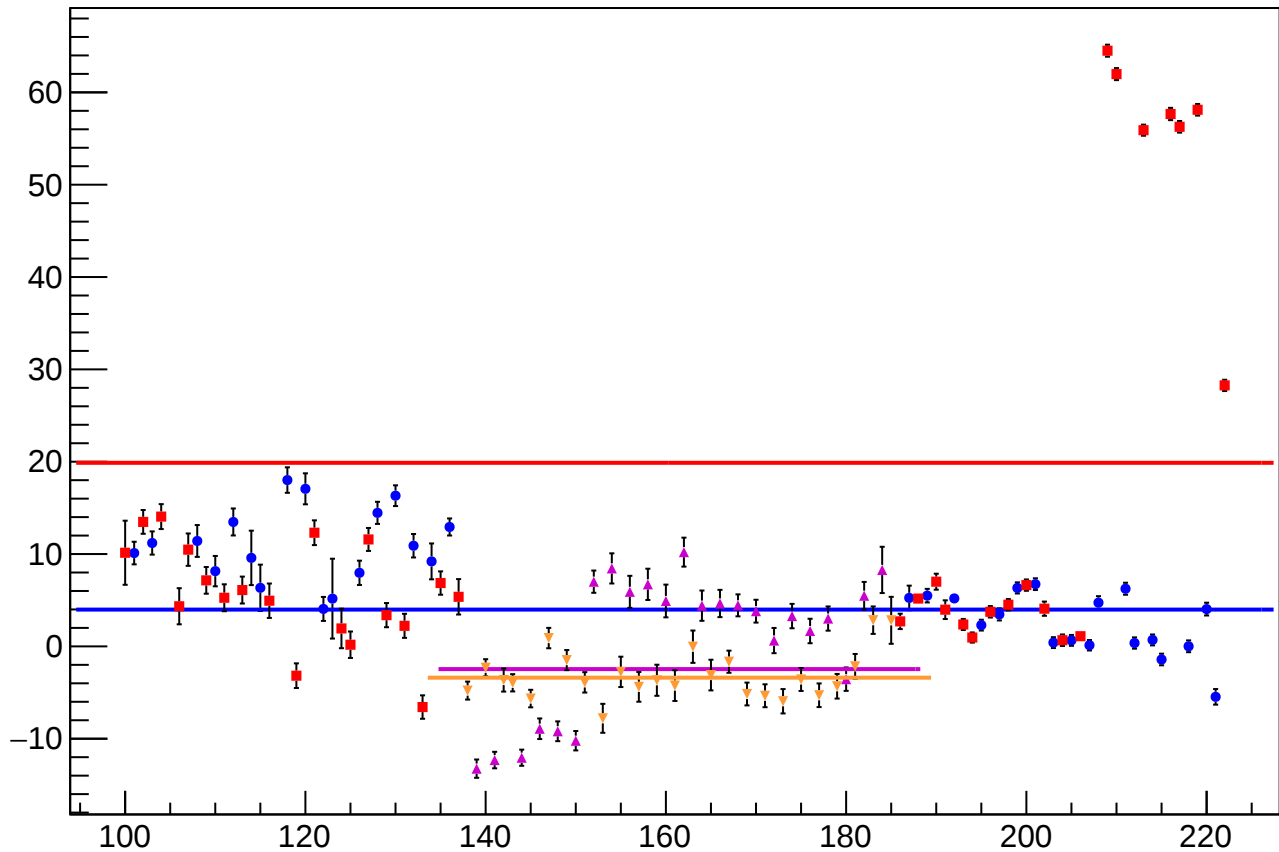
Right: 3350.835 $\pm$ 0.390 χ^2 /NDF: 5523135.8/72

In: 3747.161 $\pm$ 0.455 χ^2 /NDF:5409054.3/57

Out: 3874.313 $\pm$ 0.456 χ^2 /NDF:5138108.3/62

All: 3810.553 $\pm$ 0.322 χ^2 /NDF: 10586146.4/122

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 3.984 ± 0.139 $\chi^2/\text{NDF}: 1115.8/34$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 19.881 ± 0.135 $\chi^2/\text{NDF}: 32972.9/37$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

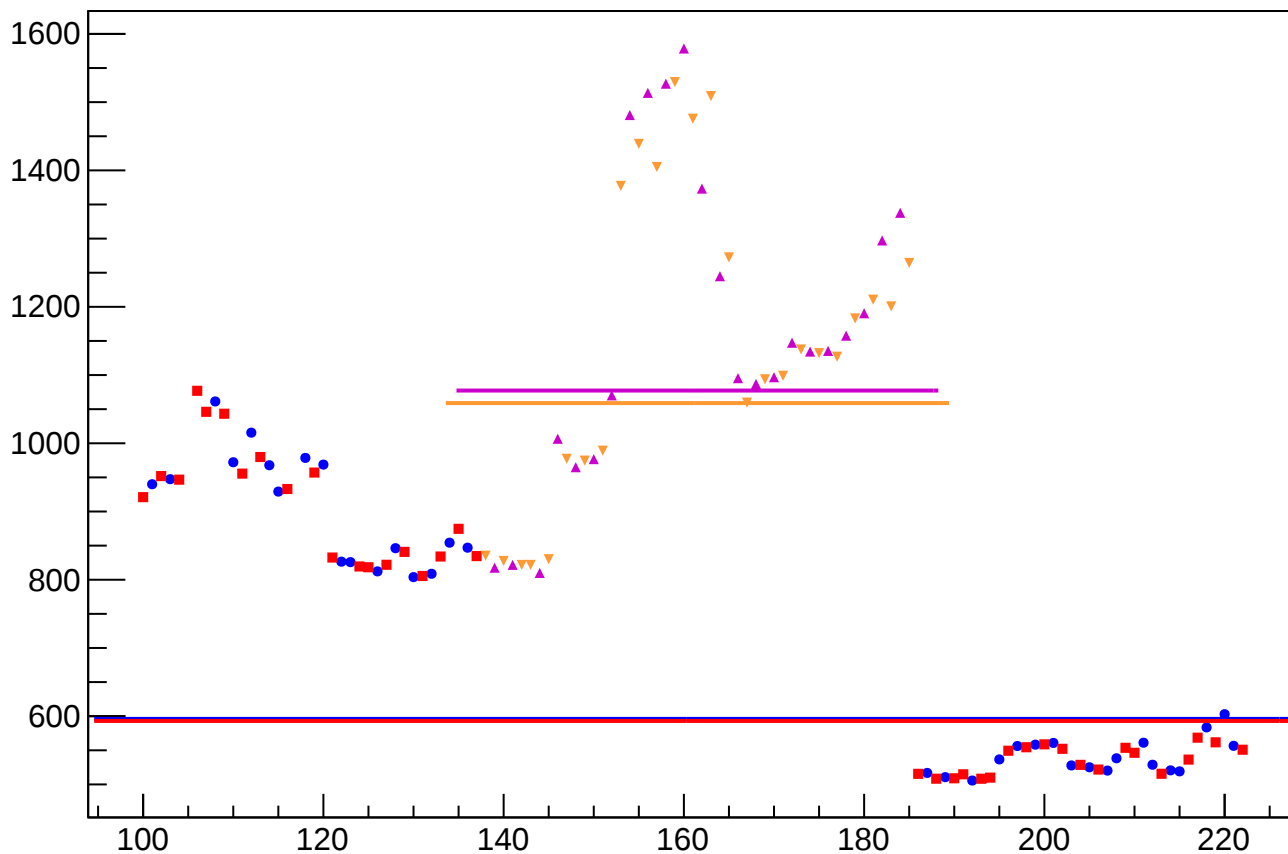
Right: 12.148 ± 0.097 $\chi^2/\text{NDF}: 40850.8/72$

In: 2.595 ± 0.123 $\chi^2/\text{NDF}: 2510.1/57$

Out: 14.710 ± 0.119 $\chi^2/\text{NDF}: 39670.2/62$

All: 8.843 ± 0.085 $\chi^2/\text{NDF}: 47206.8/120$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 596.043+/-0.098 χ^2/NDF : 1901564.4/34

Left Out: 1058.941+/-0.178 χ^2/NDF : 1403222.2/24

Right Out: 593.059+/-0.095 χ^2/NDF : 2124122.4/37

Left In: 1077.284+/-0.187 χ^2/NDF : 1280349.9/22

Left: 1067.683+/-0.129 χ^2/NDF : 2688612.0/47

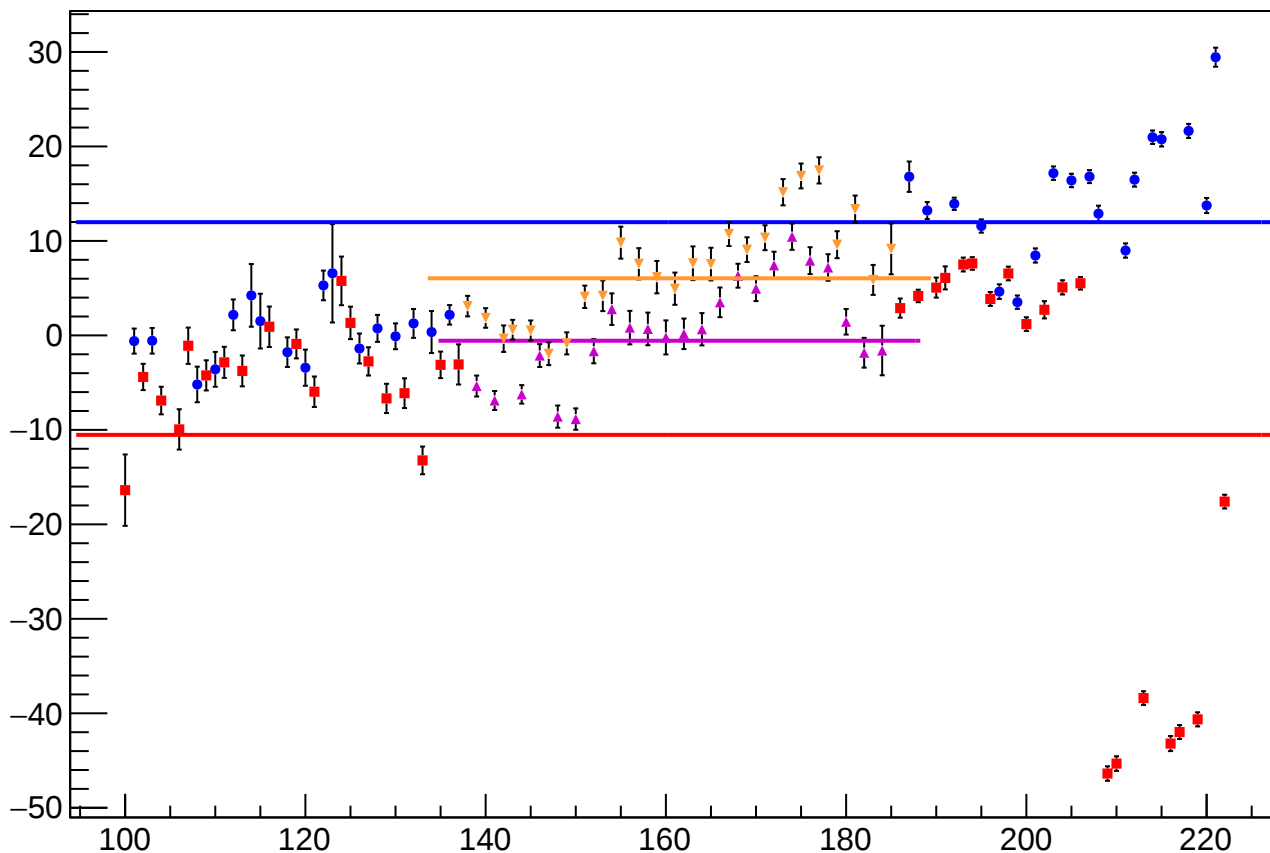
Right: 594.510+/-0.068 χ^2/NDF : 4026163.1/72

In: 699.732+/-0.087 χ^2/NDF : 8381414.8/57

Out: 696.585+/-0.084 χ^2/NDF : 8833318.9/62

All: 698.109+/-0.060 χ^2/NDF : 17215411.9/12

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 11.985 ± 0.165 $\chi^2/\text{NDF}: 2152.1/34$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: -10.528 ± 0.161 $\chi^2/\text{NDF}: 16035.9/37$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

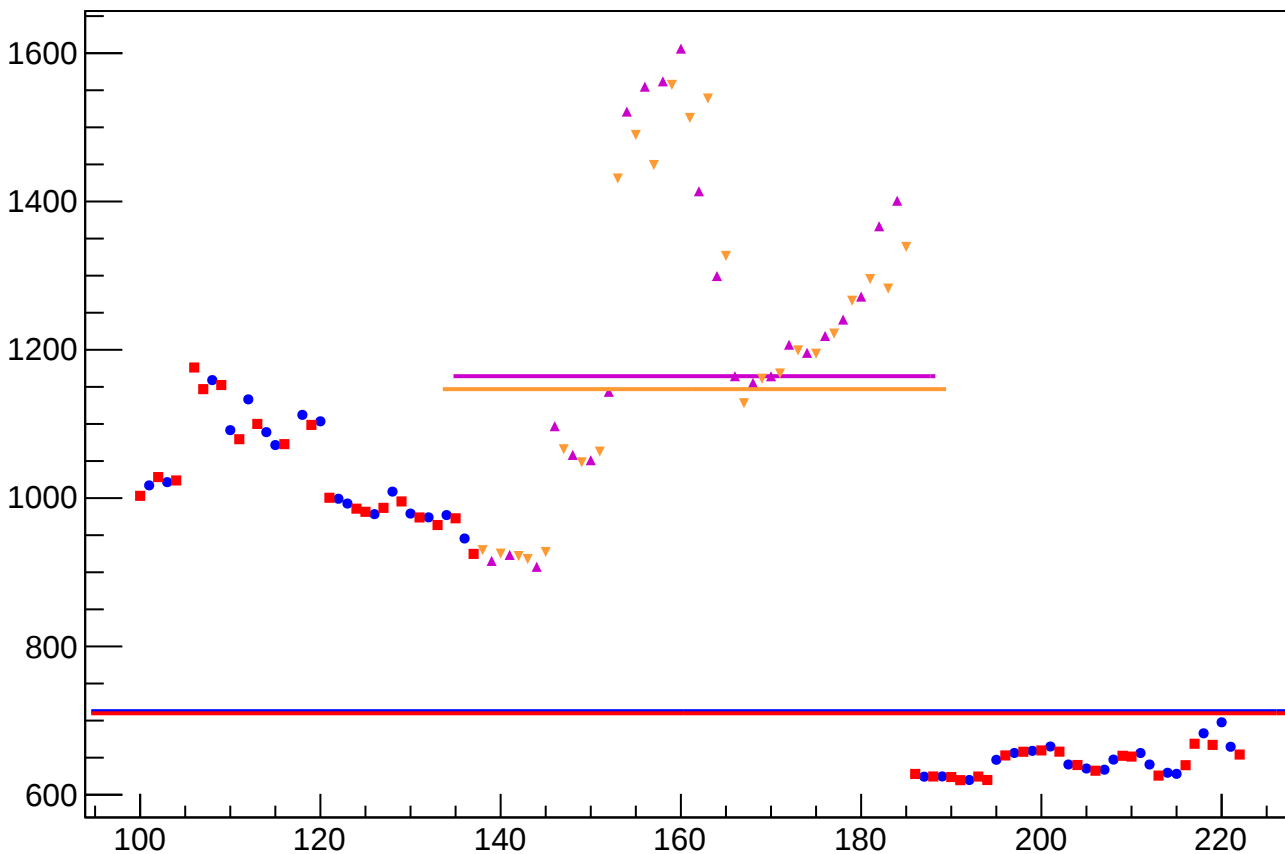
Right: 0.430 ± 0.115 $\chi^2/\text{NDF}: 27748.7/72$

In: 8.821 ± 0.143 $\chi^2/\text{NDF}: 4028.5/57$

Out: -6.235 ± 0.138 $\chi^2/\text{NDF}: 19224.2/62$

All: 1.058 ± 0.099 $\chi^2/\text{NDF}: 28996.0/120$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 712.674+/-0.117 χ^2/NDF : 1572053.2/34

Left Out: 1146.960+/-0.192 χ^2/NDF :1045761.4/24

Right Out: 709.831+/-0.114 χ^2/NDF : 1749488.5/37

Left In: 1164.432+/-0.201 χ^2/NDF :944112.0/22

Left: 1155.305+/-0.139 χ^2/NDF : 1993824.0/47

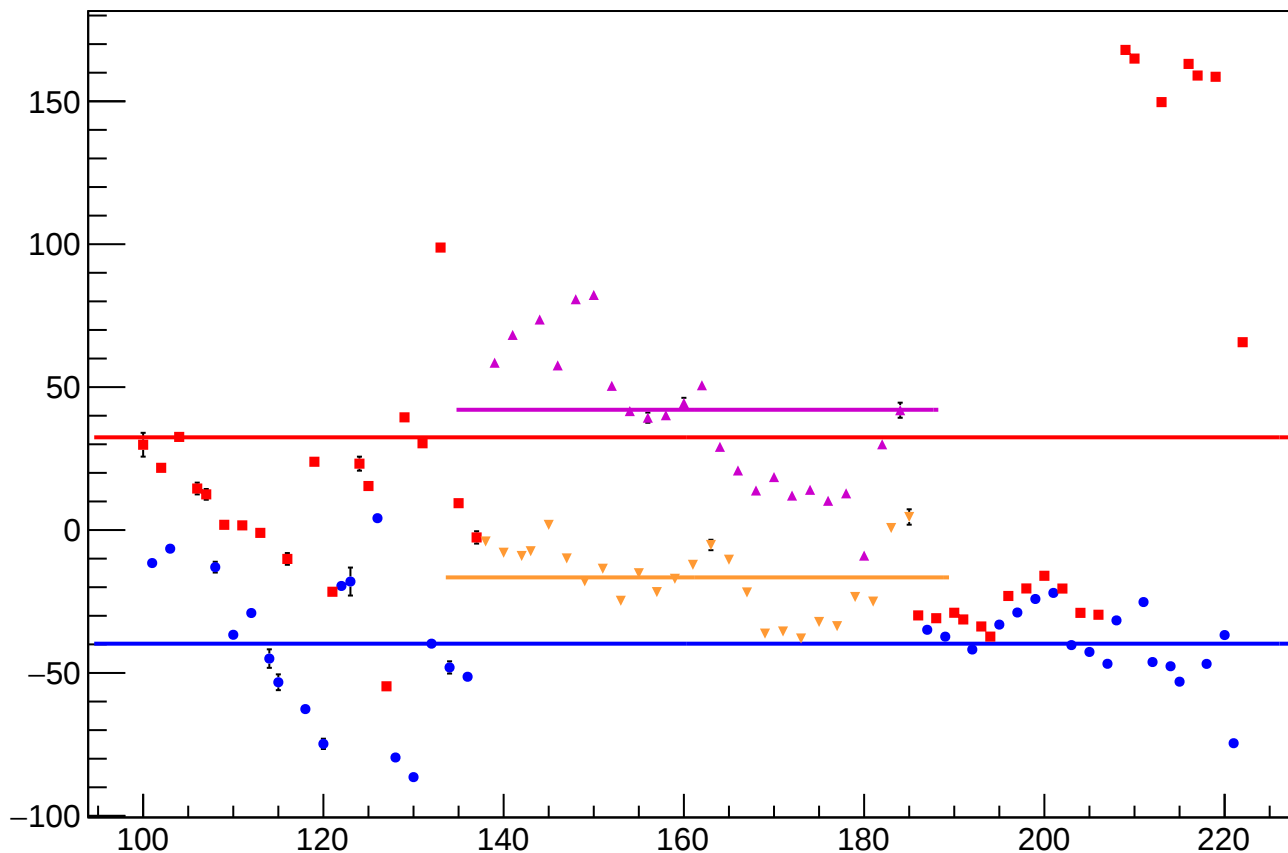
Right: 711.215+/-0.081 χ^2/NDF : 3321846.5/72

In: 826.552+/-0.101 χ^2/NDF :6297880.9/57

Out: 823.068+/-0.098 χ^2/NDF :6631882.5/62

All: 824.756+/-0.070 χ^2/NDF : 12930378.4/12

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -39.757 ± 0.164 $\chi^2/\text{NDF}: 8822.5/34$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 32.437 ± 0.159 $\chi^2/\text{NDF}: 253078.7/37$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

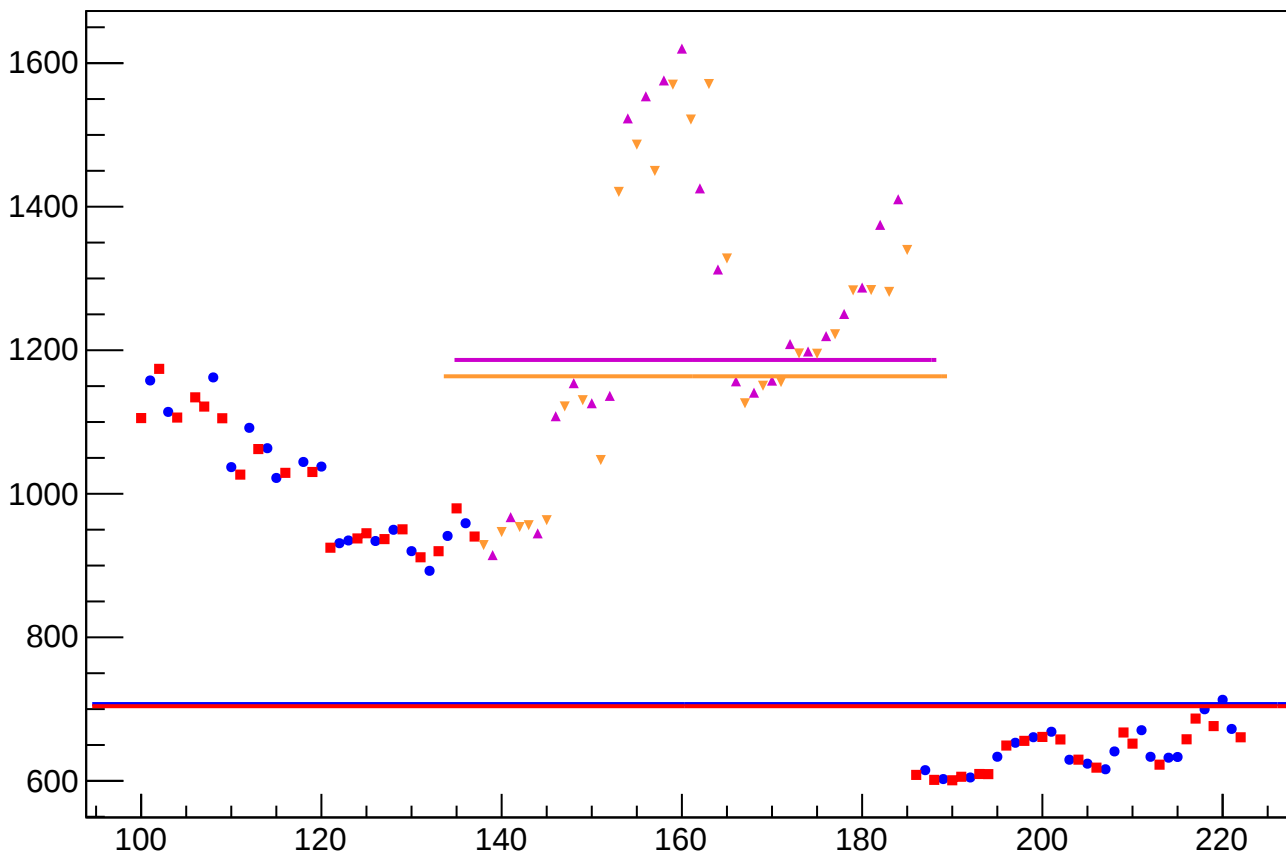
Right: -2.687 ± 0.114 $\chi^2/\text{NDF}: 361938.5/72$

In: -19.914 ± 0.142 $\chi^2/\text{NDF}: 77853.9/57$

Out: 20.153 ± 0.138 $\chi^2/\text{NDF}: 278759.0/62$

All: 0.769 ± 0.099 $\chi^2/\text{NDF}: 397503.0/120$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 707.041 $\pm$ 0.116 χ^2 /NDF: 1553724.8/34

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF:936079.1/24

Right Out: 704.032 $\pm$ 0.113 χ^2 /NDF: 1713924.3/37

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

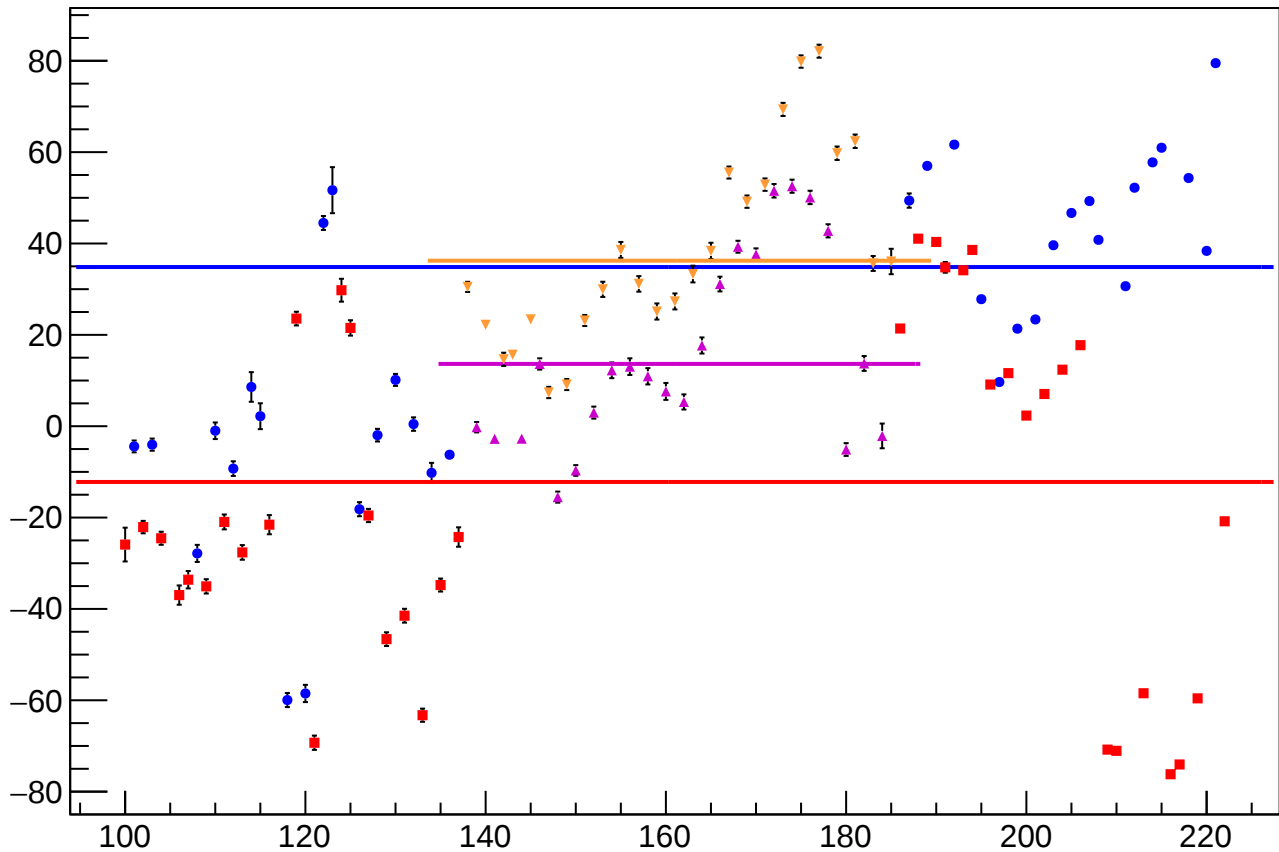
Right: 705.495 $\pm$ 0.081 χ^2 /NDF: 3267996.7/72

In: 823.296 $\pm$ 0.101 χ^2 /NDF:6554013.9/57

Out: 819.260 $\pm$ 0.097 χ^2 /NDF:6829089.1/62

All: 821.212 $\pm$ 0.070 χ^2 /NDF: 13383932.8/12

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 34.846+/-0.161 χ^2/NDF : 26135.5/34

Left Out: 36.234+/-0.280 χ^2/NDF : 5794.2/24

Right Out: -12.204+/-0.157 χ^2/NDF : 69330.6/37

Left In: 13.640+/-0.293 χ^2/NDF : 5178.0/22

Left: 25.447+/-0.202 χ^2/NDF : 14084.0/47

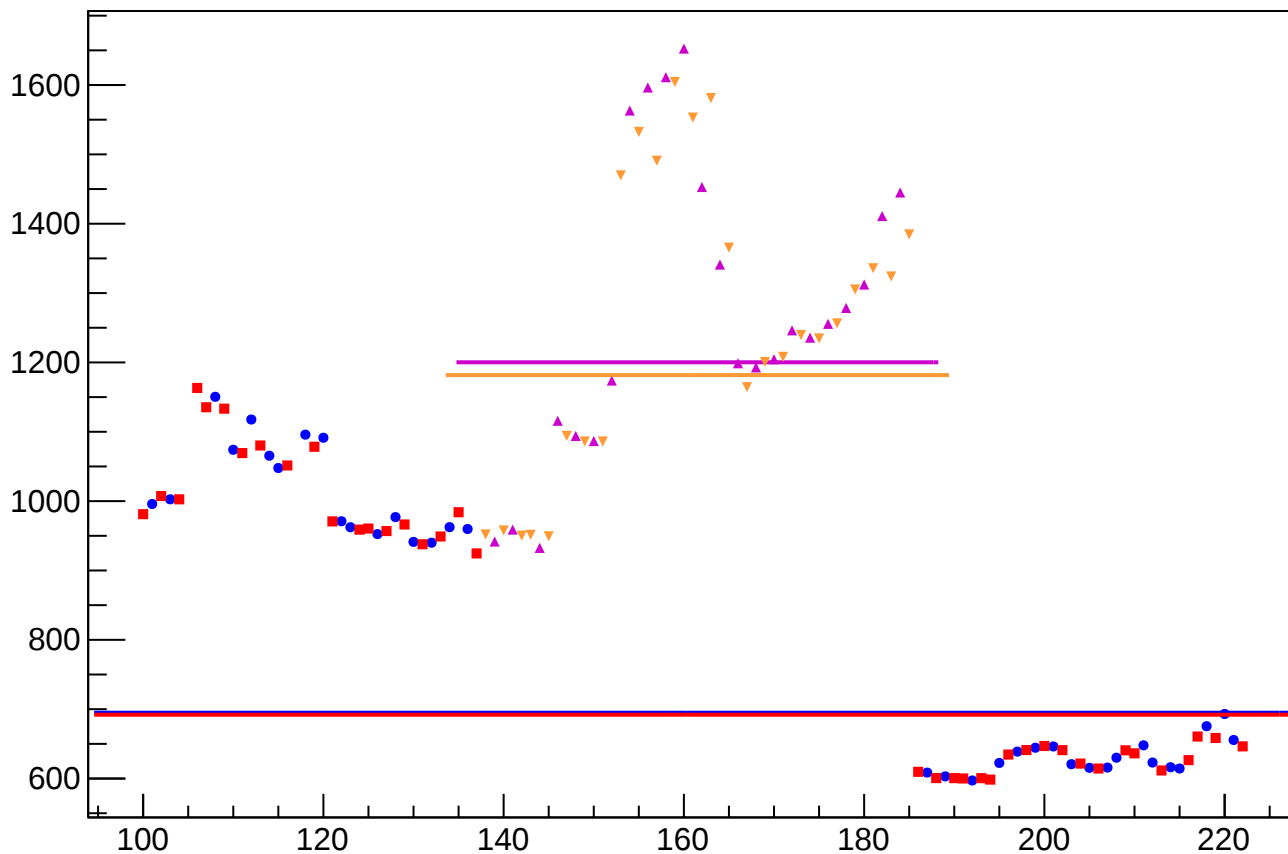
Right: 10.693+/-0.112 χ^2/NDF : 139348.5/72

In: 29.926+/-0.141 χ^2/NDF : 35342.1/57

Out: -0.645+/-0.137 χ^2/NDF : 97930.9/62

All: 14.166+/-0.098 χ^2/NDF : 157498.6/120

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 694.925+/-0.114 χ^2/NDF : 1632104.0/34

Left Out: 1181.732+/-0.198 χ^2/NDF :1043520.8/24

Right Out: 692.032+/-0.111 χ^2/NDF : 1809986.2/37

Left In: 1200.198+/-0.207 χ^2/NDF :938224.7/22

Left: 1190.549+/-0.143 χ^2/NDF : 1985902.3/47

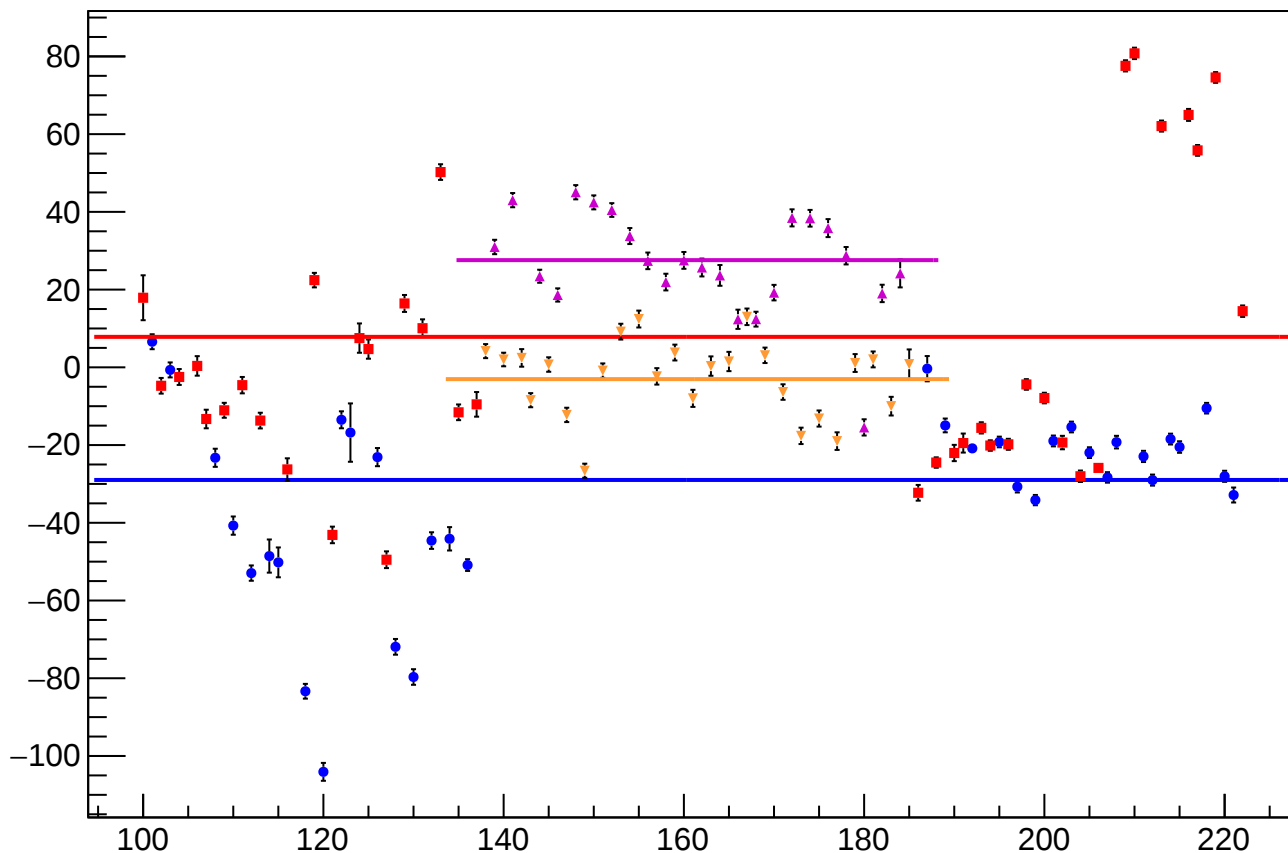
Right: 693.440+/-0.079 χ^2/NDF : 3442421.9/72

In: 812.145+/-0.100 χ^2/NDF :7144642.0/57

Out: 808.886+/-0.097 χ^2/NDF :7515436.2/62

All: 810.465+/-0.069 χ^2/NDF : 14660628.8/12

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -28.979 ± 0.292 $\chi^2/\text{NDF}: 4858.6/34$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: 7.843 ± 0.286 $\chi^2/\text{NDF}: 17799.3/37$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

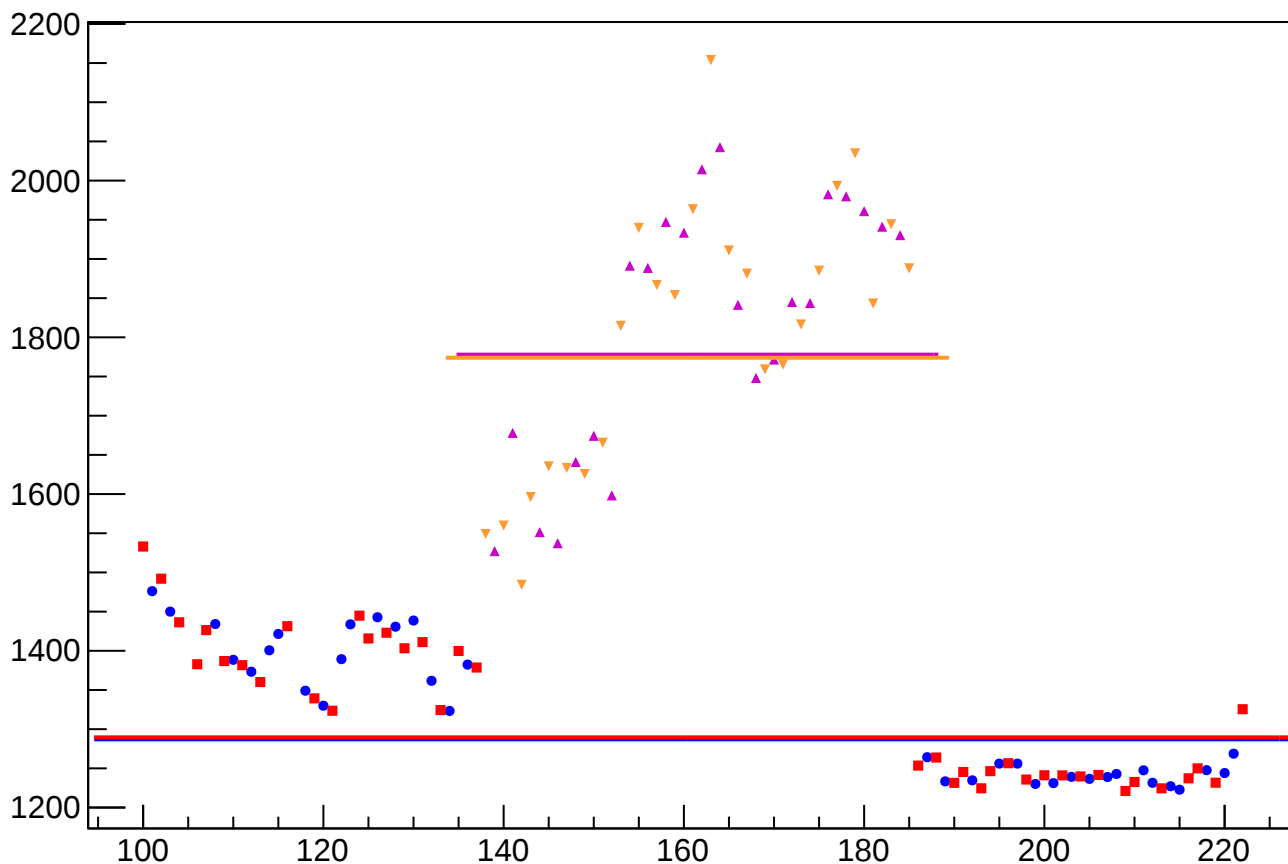
Right: -10.172 ± 0.204 $\chi^2/\text{NDF}: 30768.9/72$

In: -11.056 ± 0.242 $\chi^2/\text{NDF}: 17692.3/57$

Out: 4.341 ± 0.235 $\chi^2/\text{NDF}: 18820.8/62$

All: -3.164 ± 0.169 $\chi^2/\text{NDF}: 38596.4/120$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1287.082 ± 0.207 $\chi^2/\text{NDF}: 140791.8/34$

Left Out: 1773.965 ± 0.294 $\chi^2/\text{NDF}: 313031.1/24$

Right Out: 1289.558 ± 0.202 $\chi^2/\text{NDF}: 140464.5/37$

Left In: 1777.884 ± 0.303 $\chi^2/\text{NDF}: 299514.0/22$

Left: 1775.860 ± 0.211 $\chi^2/\text{NDF}: 612631.3/47$

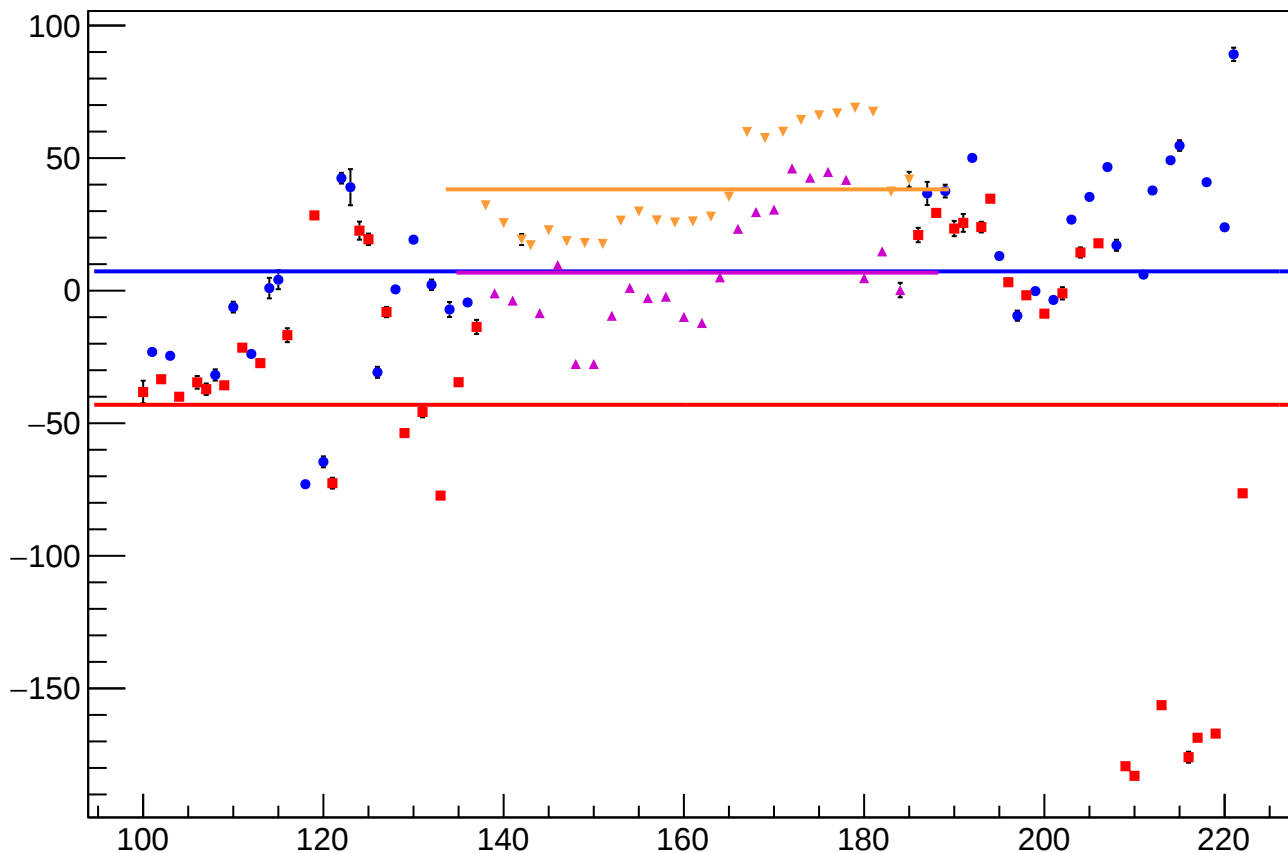
Right: 1288.346 ± 0.145 $\chi^2/\text{NDF}: 281329.7/72$

In: 1442.606 ± 0.171 $\chi^2/\text{NDF}: 2228342.8/57$

Out: 1445.478 ± 0.167 $\chi^2/\text{NDF}: 2300579.2/62$

All: 1444.078 ± 0.119 $\chi^2/\text{NDF}: 4529066.9/12$

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 7.280 ± 0.329 χ^2/NDF : 10221.5/34

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -43.041 ± 0.320 χ^2/NDF : 43573.8/37

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

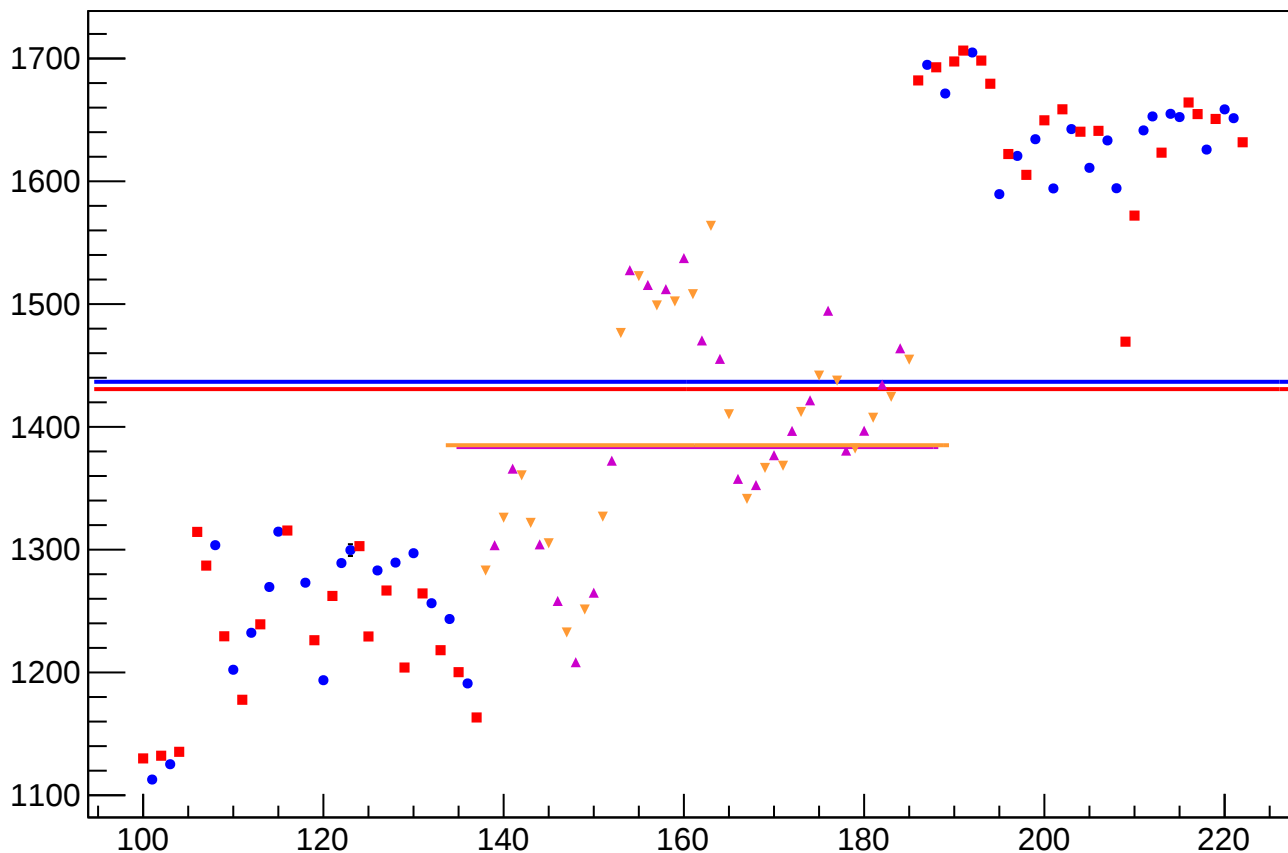
Right: -18.569 ± 0.230 χ^2/NDF : 65796.3/72

In: 7.047 ± 0.234 χ^2/NDF : 14717.0/57

Out: -2.801 ± 0.228 χ^2/NDF : 78949.0/62

All: 1.984 ± 0.163 χ^2/NDF : 94575.7/120

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1436.715 $\pm$ 0.233 χ^2 /NDF: 830962.1/34

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1430.755 $\pm$ 0.227 χ^2 /NDF: 909455.7/37

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

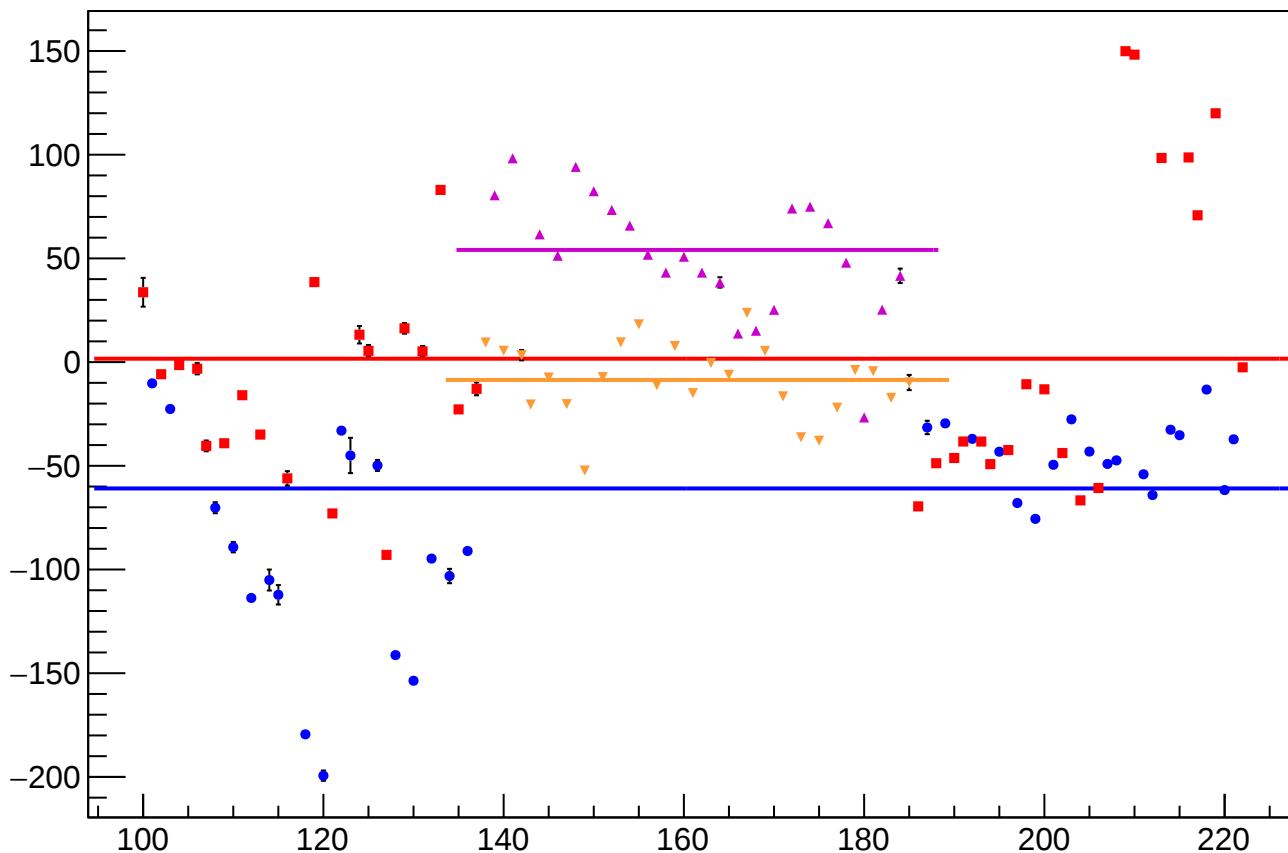
Right: 1433.653 $\pm$ 0.162 χ^2 /NDF: 1740754.6/72

In: 1410.439 $\pm$ 0.166 χ^2 /NDF:1011432.9/57

Out: 1408.125 $\pm$ 0.161 χ^2 /NDF:1075609.9/62

All: 1409.249 $\pm$ 0.115 χ^2 /NDF: 2087143.3/12

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -60.919 ± 0.331 $\chi^2/\text{NDF}: 14847.9/34$

Left Out: -8.606 ± 0.410 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: 1.642 ± 0.322 $\chi^2/\text{NDF}: 44146.2/37$

Left In: 54.089 ± 0.426 $\chi^2/\text{NDF}: 4721.6/22$

Left: 21.586 ± 0.295 $\chi^2/\text{NDF}: 17900.0/47$

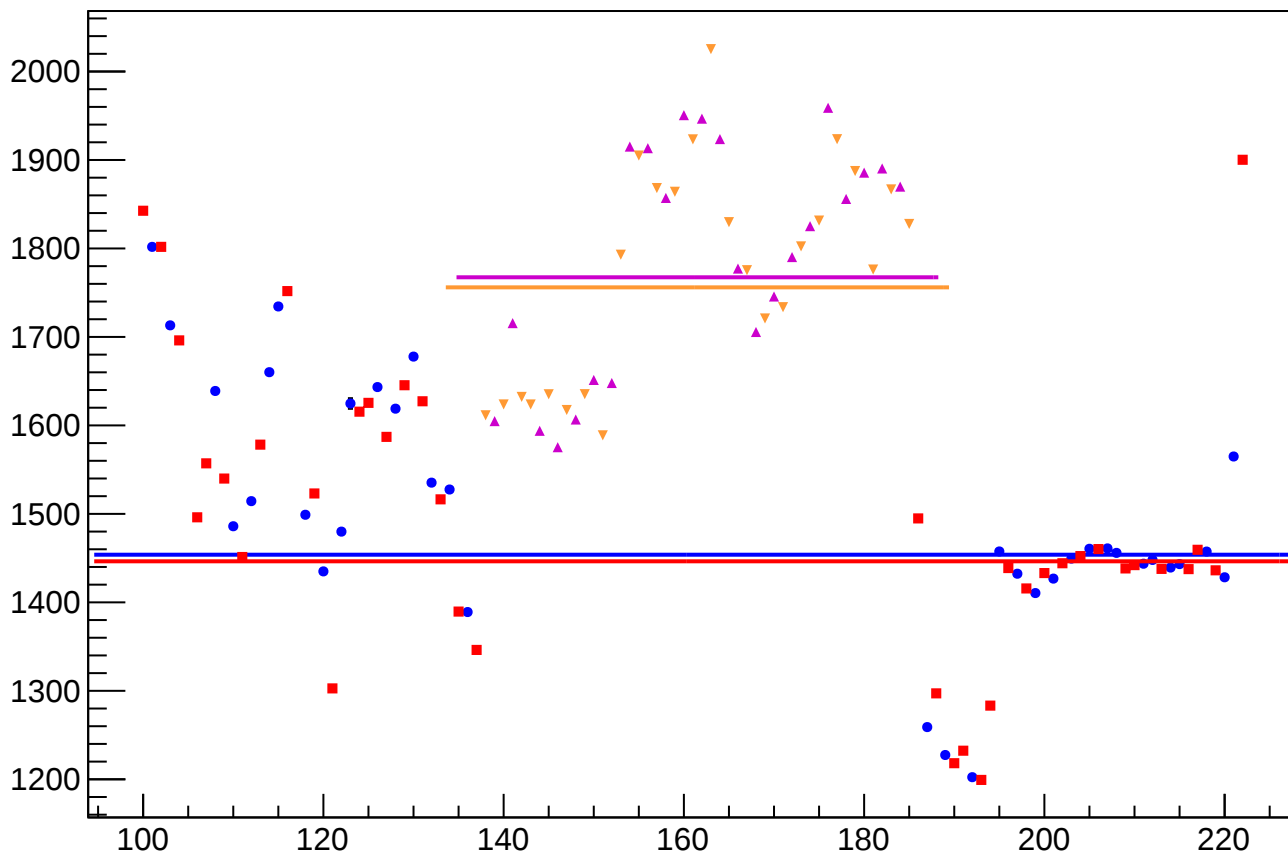
Right: -28.791 ± 0.231 $\chi^2/\text{NDF}: 77372.7/72$

In: -17.626 ± 0.261 $\chi^2/\text{NDF}: 65095.3/57$

Out: -2.263 ± 0.253 $\chi^2/\text{NDF}: 46463.0/62$

All: -9.708 ± 0.182 $\chi^2/\text{NDF}: 113342.2/120$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.849 $\pm$ 0.234 χ^2 /NDF: 266689.5/34

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1446.393 $\pm$ 0.228 χ^2 /NDF: 402616.5/37

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

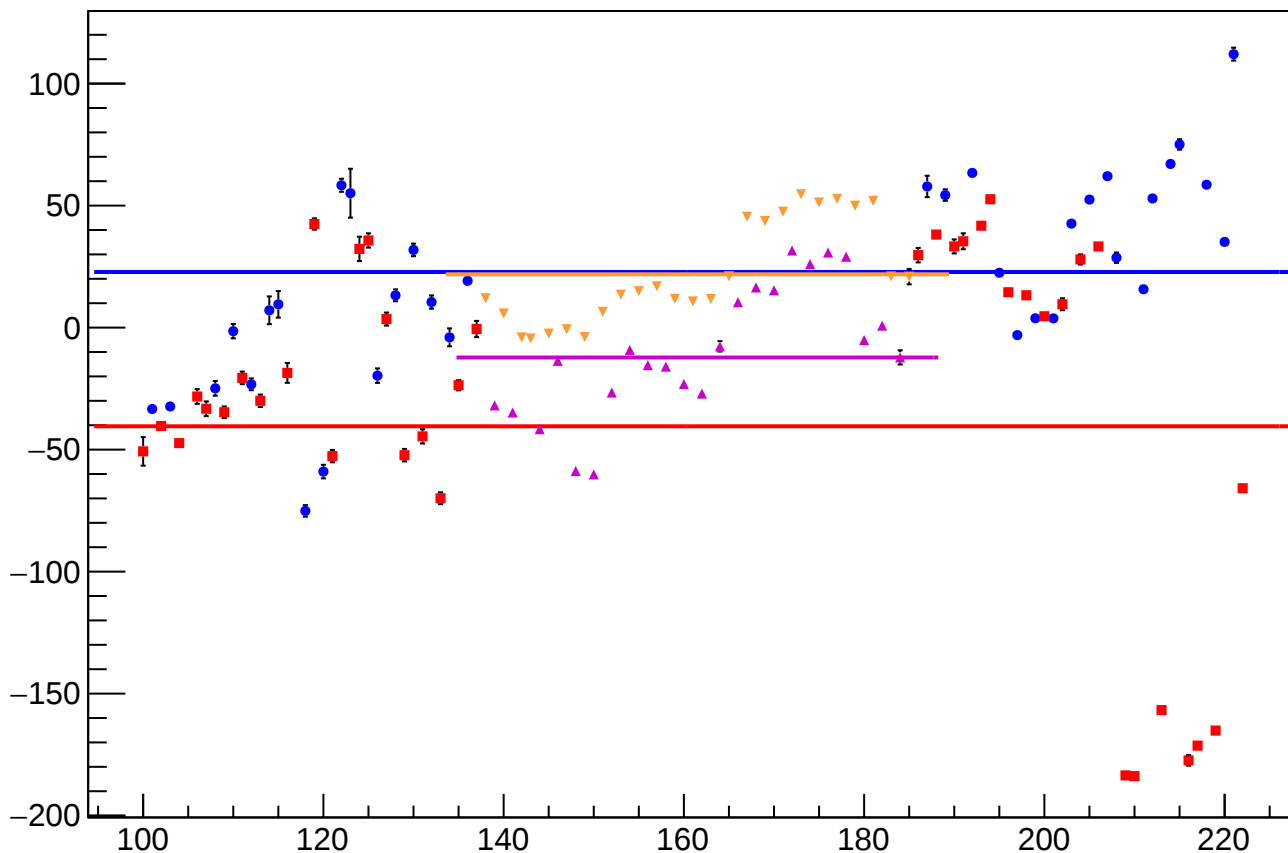
Right: 1450.020 $\pm$ 0.163 χ^2 /NDF: 669828.0/72

In: 1571.884 $\pm$ 0.185 χ^2 /NDF:1131473.3/57

Out: 1564.376 $\pm$ 0.179 χ^2 /NDF:1283690.9/62

All: 1568.014 $\pm$ 0.129 χ^2 /NDF: 2416016.1/12

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 22.798+/-0.381 χ^2/NDF : 10328.9/34

Left Out: 21.856+/-0.335 χ^2/NDF :4110.5/24

Right Out: -40.439+/-0.369 χ^2/NDF : 45601.3/37

Left In: -12.246+/-0.347 χ^2/NDF :6781.6/22

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

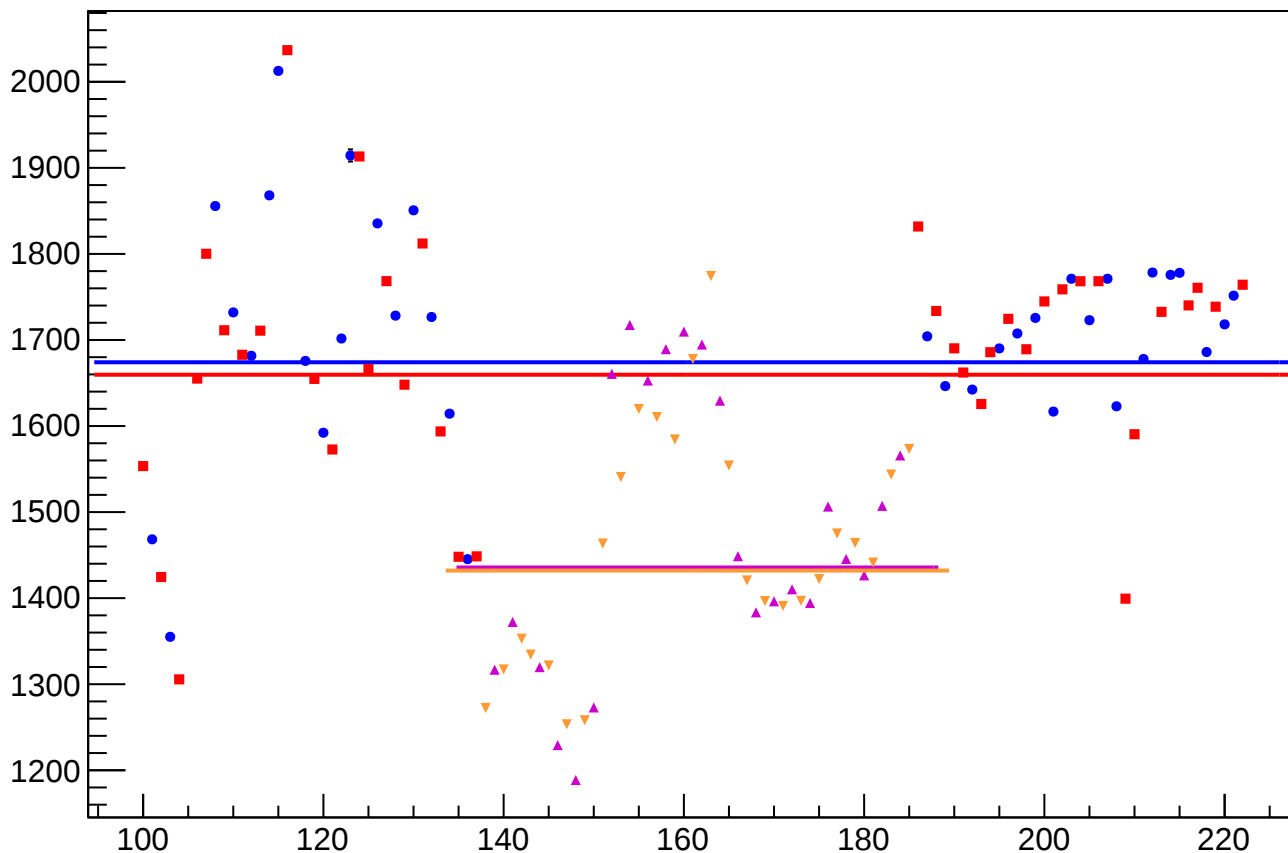
Right: -9.828+/-0.265 χ^2/NDF : 70150.5/72

In: 3.650+/-0.257 χ^2/NDF :21735.4/57

Out: -6.323+/-0.248 χ^2/NDF :65324.1/62

All: -1.502+/-0.178 χ^2/NDF : 87840.3/120

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1674.093+/-0.269 χ^2/NDF : 201776.8/34

Left Out: 1432.060+/-0.237 χ^2/NDF : 297360.3/24

Right Out: 1659.642+/-0.261 χ^2/NDF : 278492.6/37

Left In: 1435.645+/-0.245 χ^2/NDF : 420835.0/22

Left: 1433.791+/-0.171 χ^2/NDF : 718305.7/47

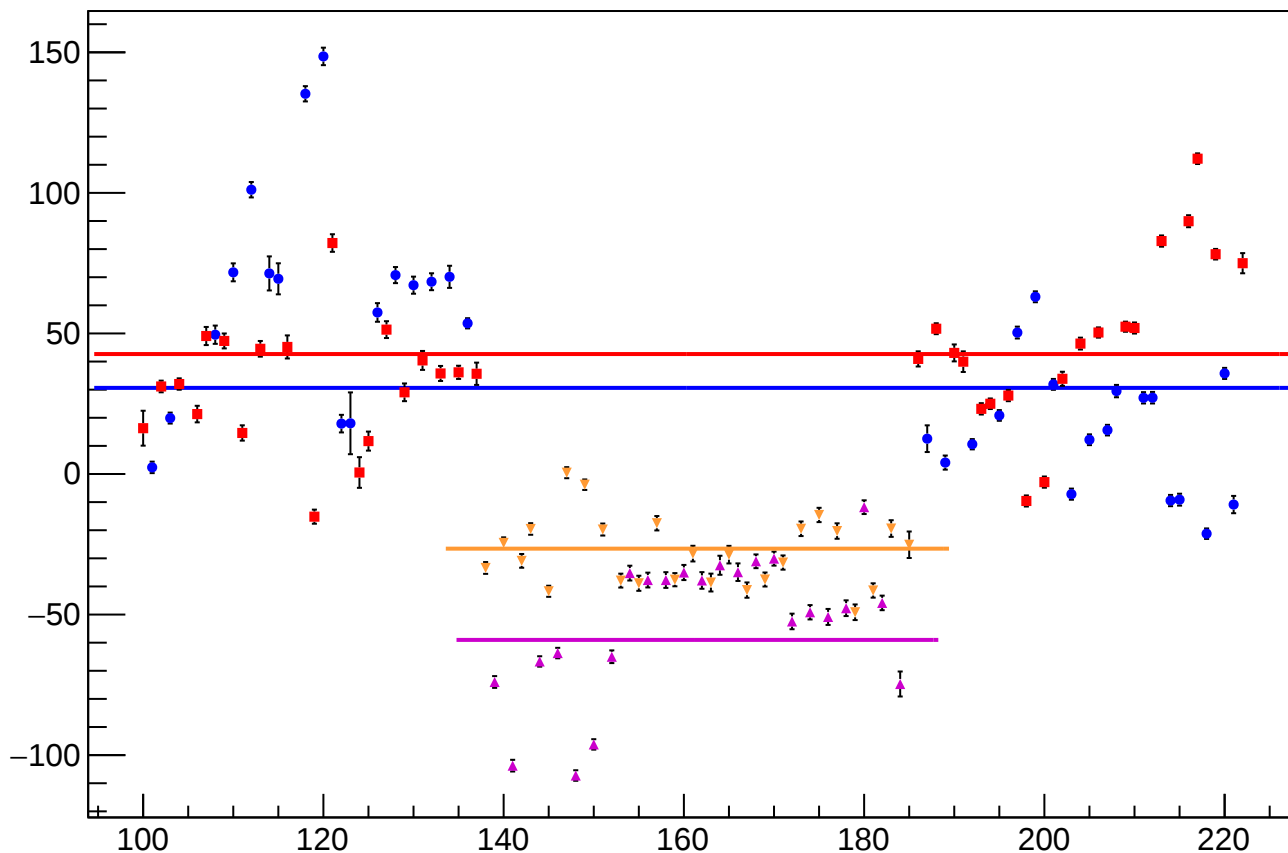
Right: 1666.637+/-0.187 χ^2/NDF : 481754.7/72

In: 1543.805+/-0.181 χ^2/NDF : 1050864.9/57

Out: 1535.006+/-0.175 χ^2/NDF : 992592.3/62

All: 1539.260+/-0.126 χ^2/NDF : 2044672.8/121

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 30.637 $\pm$ 0.402 χ^2/NDF : 7816.0/34

Left Out: -26.554 $\pm$ 0.488 χ^2/NDF : 717.5/24

Right Out: 42.671 $\pm$ 0.393 χ^2/NDF : 5367.4/37

Left In: -59.014 $\pm$ 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 $\pm$ 0.351 χ^2/NDF : 5632.2/47

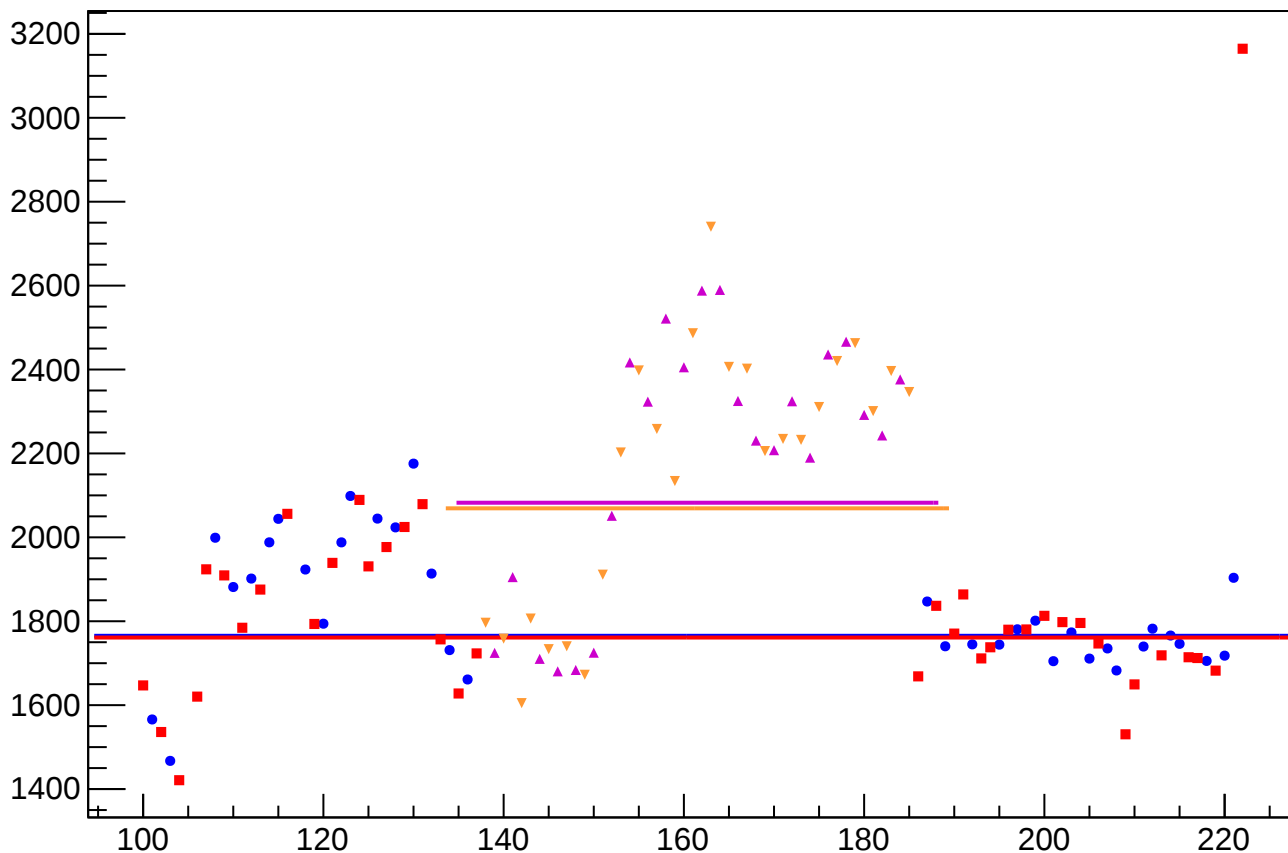
Right: 36.791 $\pm$ 0.281 χ^2/NDF : 13641.6/72

In: -4.019 $\pm$ 0.315 χ^2/NDF : 29824.2/57

Out: 15.430 $\pm$ 0.306 χ^2/NDF : 18295.9/62

All: 5.982 $\pm$ 0.219 χ^2/NDF : 50081.9/120

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1765.295+/-0.284 χ^2/NDF : 205878.6/34

Left Out: 2069.146+/-0.345 χ^2/NDF : 799037.9/24

Right Out: 1761.171+/-0.278 χ^2/NDF : 541569.0/37

Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

Left: 2075.572+/-0.248 χ^2/NDF : 1585062.9/47

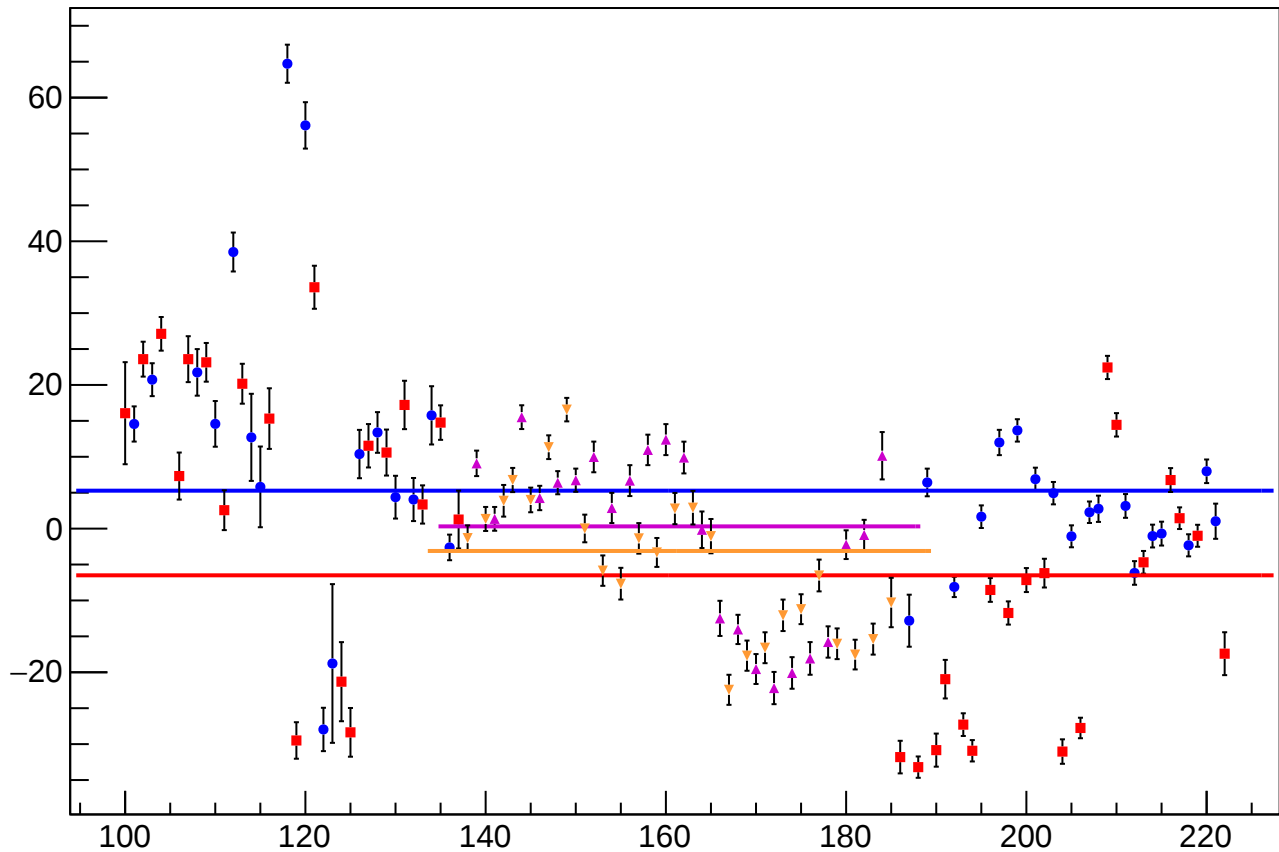
Right: 1763.186+/-0.199 χ^2/NDF : 747555.3/72

In: 1887.913+/-0.223 χ^2/NDF : 1472518.4/57

Out: 1882.365+/-0.216 χ^2/NDF : 1823983.3/62

All: 1885.060+/-0.155 χ^2/NDF : 3296821.1/12

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

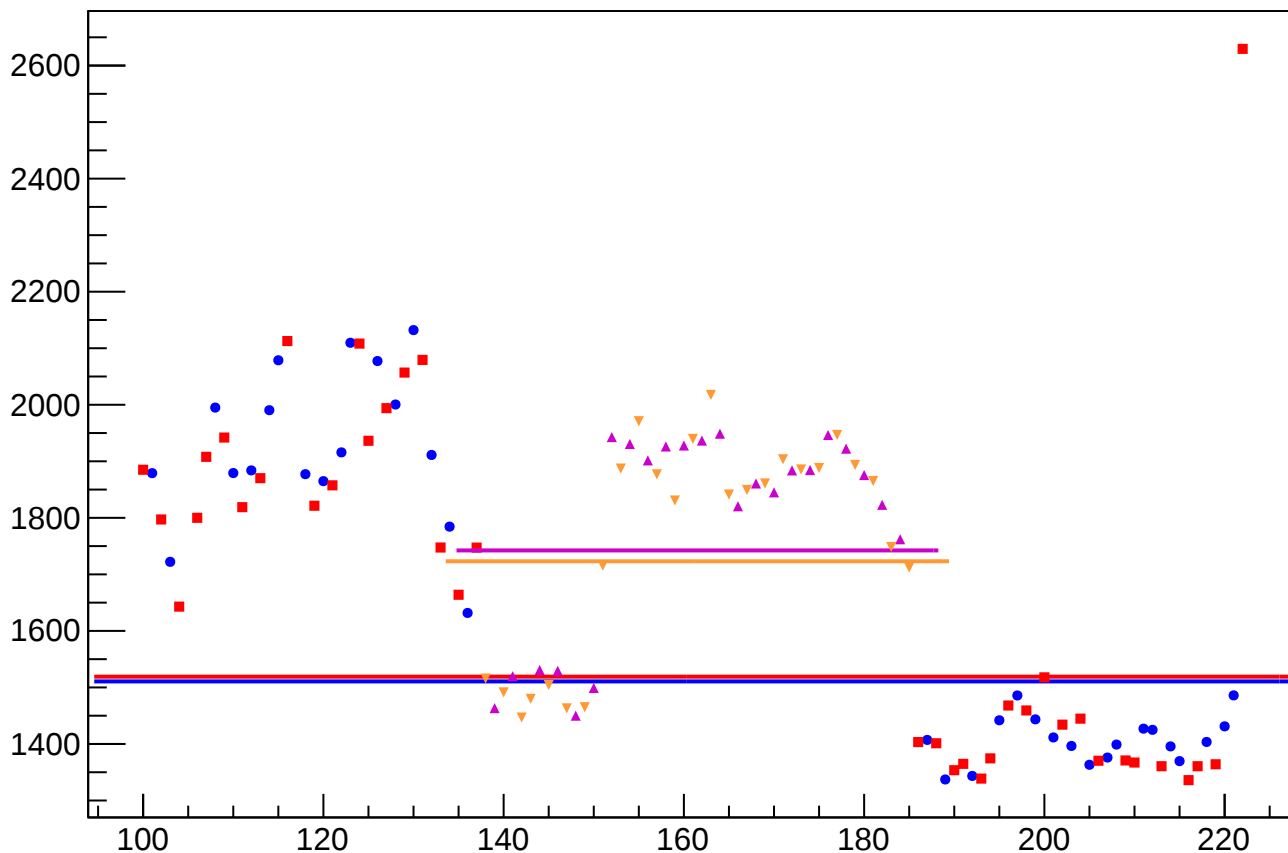
Right: -0.702 ± 0.243 $\chi^2/\text{NDF}: 5367.2/72$

In: 3.275 ± 0.268 $\chi^2/\text{NDF}: 2276.1/57$

Out: -5.092 ± 0.261 $\chi^2/\text{NDF}: 4008.2/62$

All: -1.017 ± 0.187 $\chi^2/\text{NDF}: 6786.0/120$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1510.656 ± 0.245 $\chi^2/\text{NDF}: 730988.1/34$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1519.081 ± 0.241 $\chi^2/\text{NDF}: 1033273.9/37$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

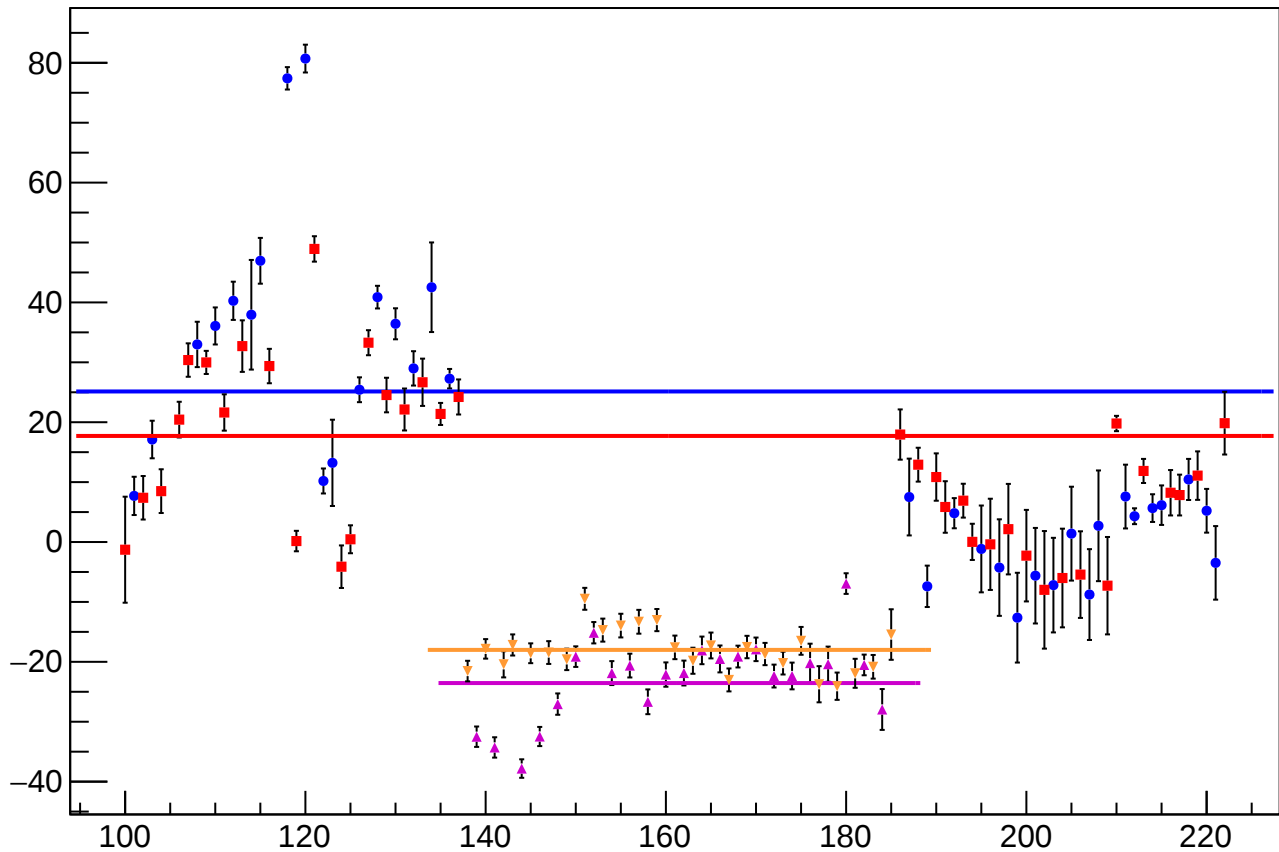
Right: 1514.934 ± 0.172 $\chi^2/\text{NDF}: 1764862.5/72$

In: 1604.193 ± 0.189 $\chi^2/\text{NDF}: 1527913.6/57$

Out: 1603.964 ± 0.184 $\chi^2/\text{NDF}: 1808471.6/62$

All: 1604.076 ± 0.132 $\chi^2/\text{NDF}: 3336386.0/12$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 25.135 ± 0.505 $\chi^2/\text{NDF}: 2328.3/34$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 17.710 ± 0.474 $\chi^2/\text{NDF}: 744.9/37$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

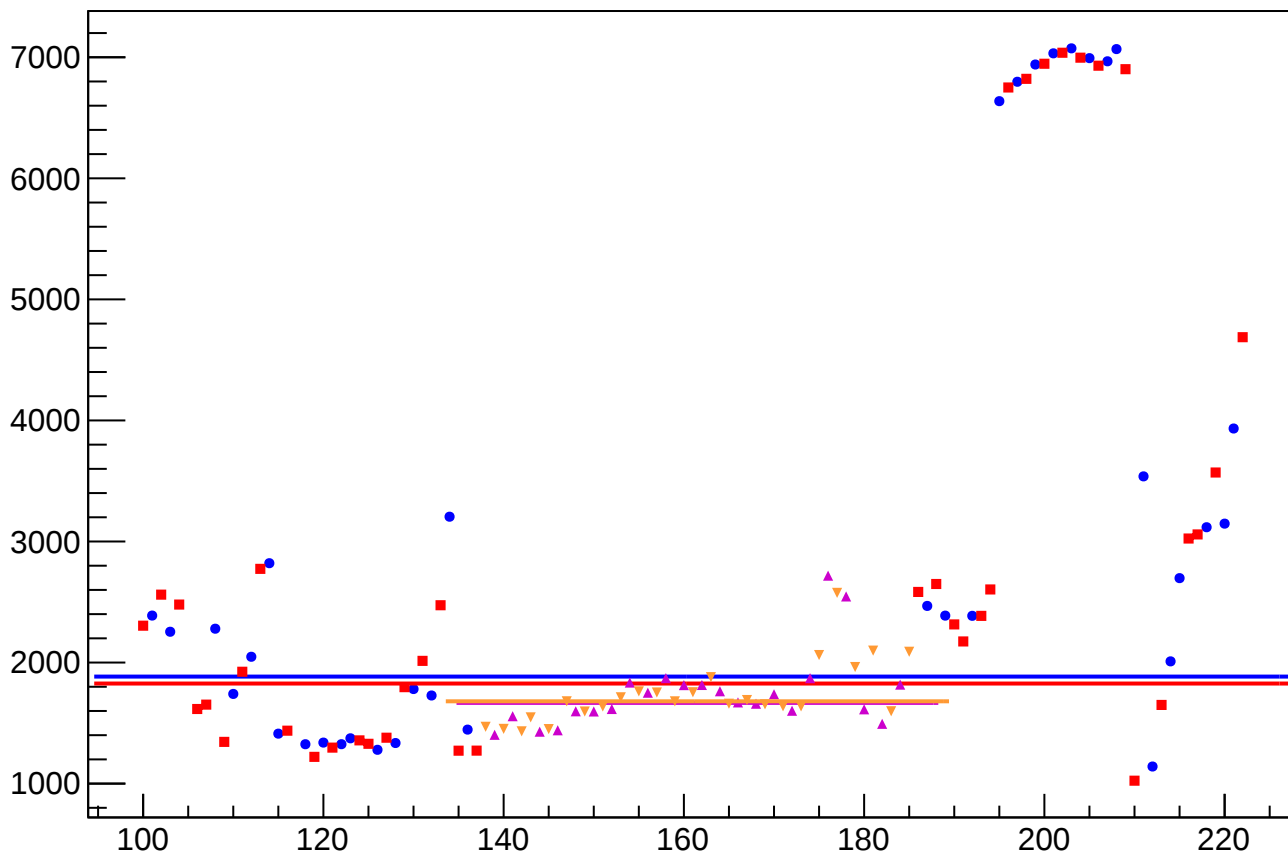
Right: 21.186 ± 0.346 $\chi^2/\text{NDF}: 3188.2/72$

In: -4.462 ± 0.316 $\chi^2/\text{NDF}: 8320.1/57$

Out: -3.297 ± 0.304 $\chi^2/\text{NDF}: 4157.5/62$

All: -3.857 ± 0.219 $\chi^2/\text{NDF}: 12484.6/120$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1884.087 $\pm$ 0.357 χ^2 /NDF: 9558323.9/34

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1826.627 $\pm$ 0.335 χ^2 /NDF: 9794745.0/37

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

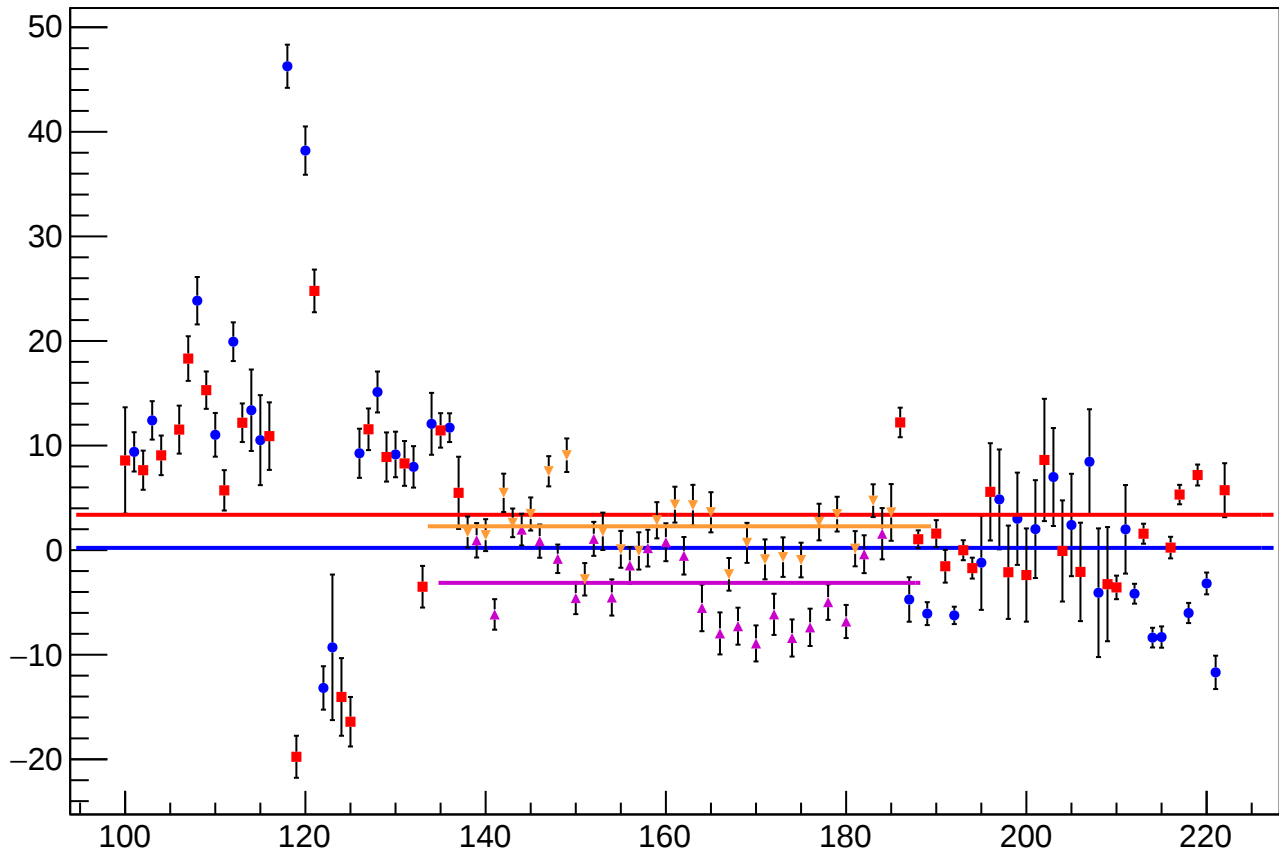
Right: 1853.532 $\pm$ 0.244 χ^2 /NDF: 19366827.2/72

In: 1751.991 $\pm$ 0.224 χ^2 /NDF: 10434223.2/57

Out: 1740.279 $\pm$ 0.215 χ^2 /NDF: 10430362.1/62

All: 1745.907 $\pm$ 0.155 χ^2 /NDF: 20866009.6/119

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.216 $\pm$ 0.287 χ^2/NDF : 1725.8/34

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.381 $\pm$ 0.263 χ^2/NDF : 724.1/37

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

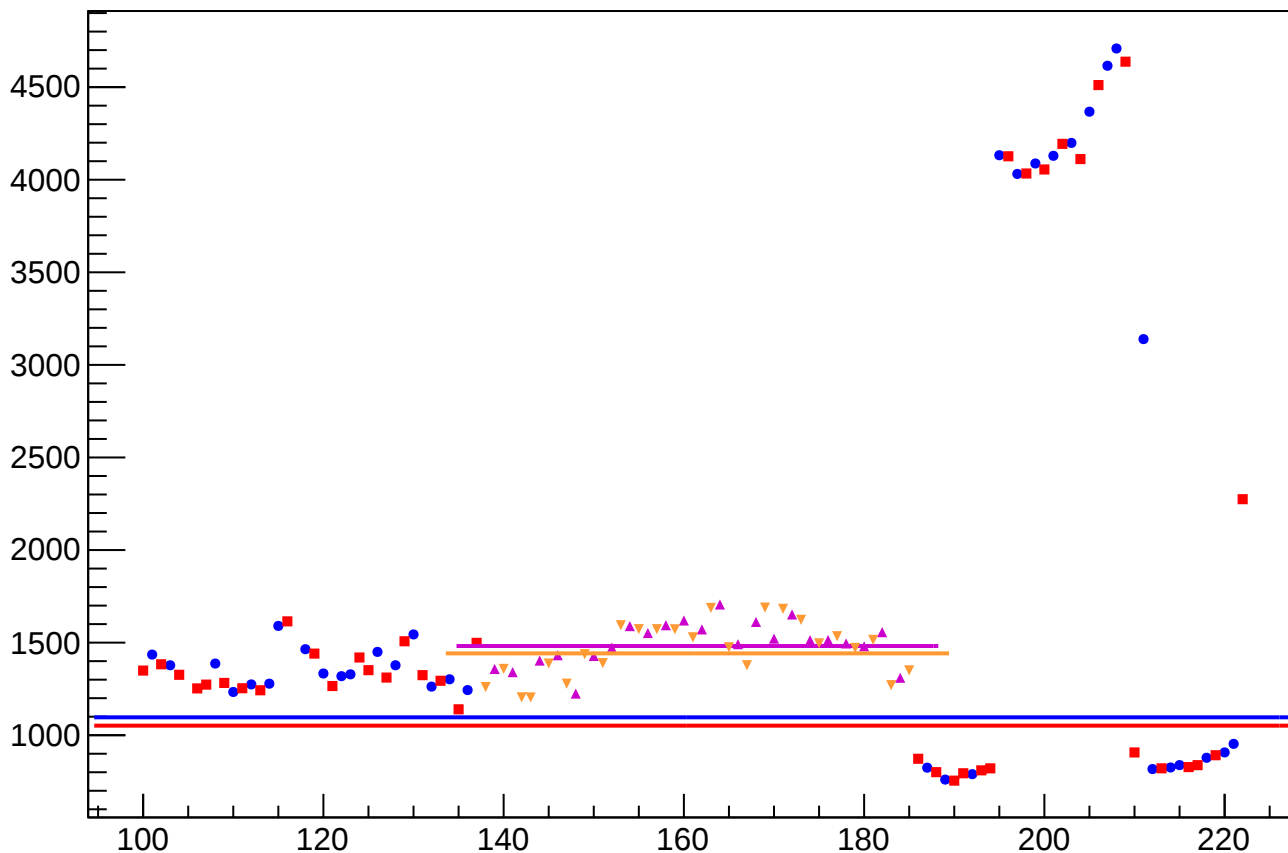
Right: 1.938 $\pm$ 0.194 χ^2/NDF : 2516.1/72

In: -1.094 $\pm$ 0.224 χ^2/NDF : 1882.4/57

Out: 2.967 $\pm$ 0.207 χ^2/NDF : 806.3/62

All: 1.090 $\pm$ 0.152 χ^2/NDF : 2865.8/120

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1096.667 $\pm$ 0.203 χ^2 /NDF: 9005479.6/34

Left Out: 1441.951 $\pm$ 0.239 χ^2 /NDF: 370617.4/24

Right Out: 1051.612 $\pm$ 0.186 χ^2 /NDF: 8093631.4/37

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2 /NDF: 592125.7/47

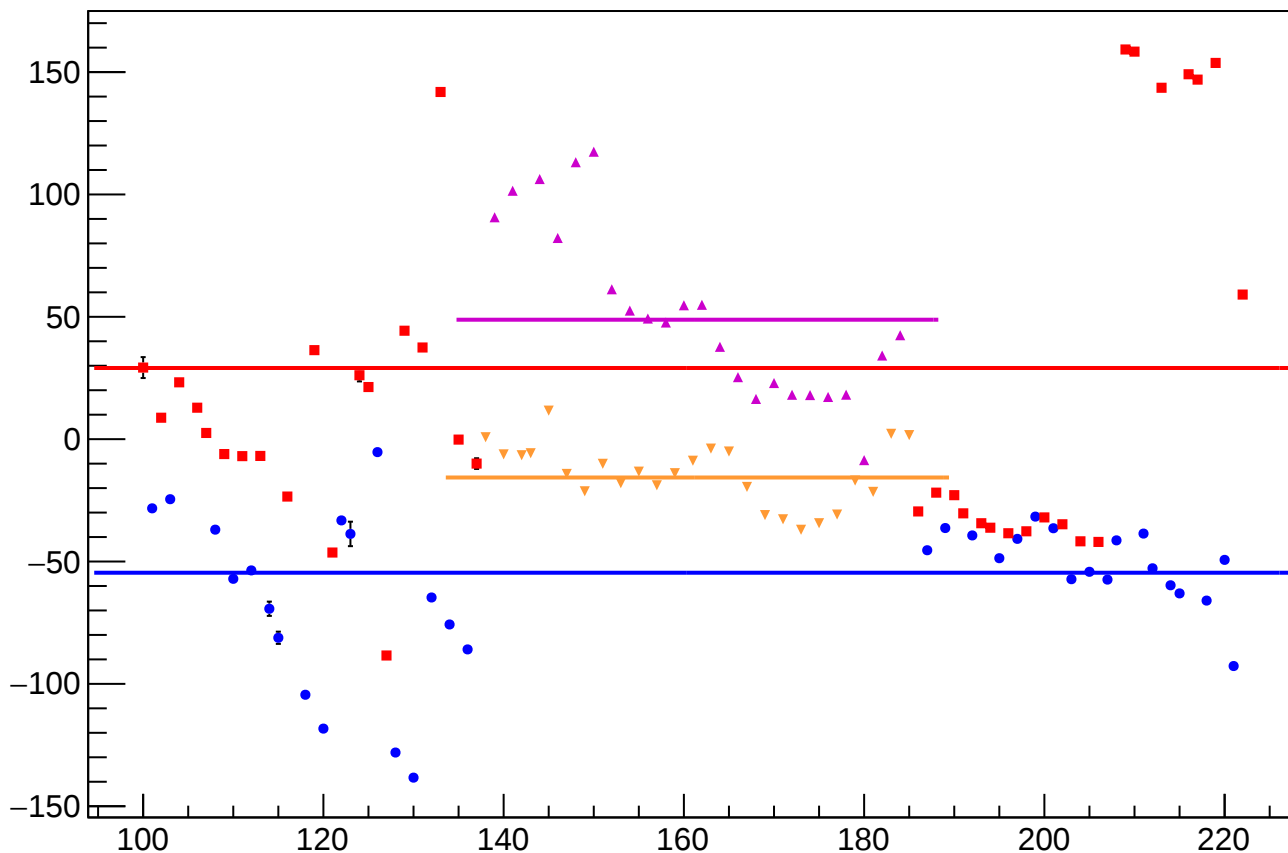
Right: 1072.150 $\pm$ 0.137 χ^2 /NDF: 17125932.6/72

In: 1247.488 $\pm$ 0.158 χ^2 /NDF: 10624016.2/57

Out: 1198.465 $\pm$ 0.147 χ^2 /NDF: 10125696.6/62

All: 1221.119 $\pm$ 0.108 χ^2 /NDF: 20801314.7/133

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -54.582 ± 0.161 $\chi^2/\text{NDF}: 19775.9/34$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: 29.085 ± 0.157 $\chi^2/\text{NDF}: 266781.9/37$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

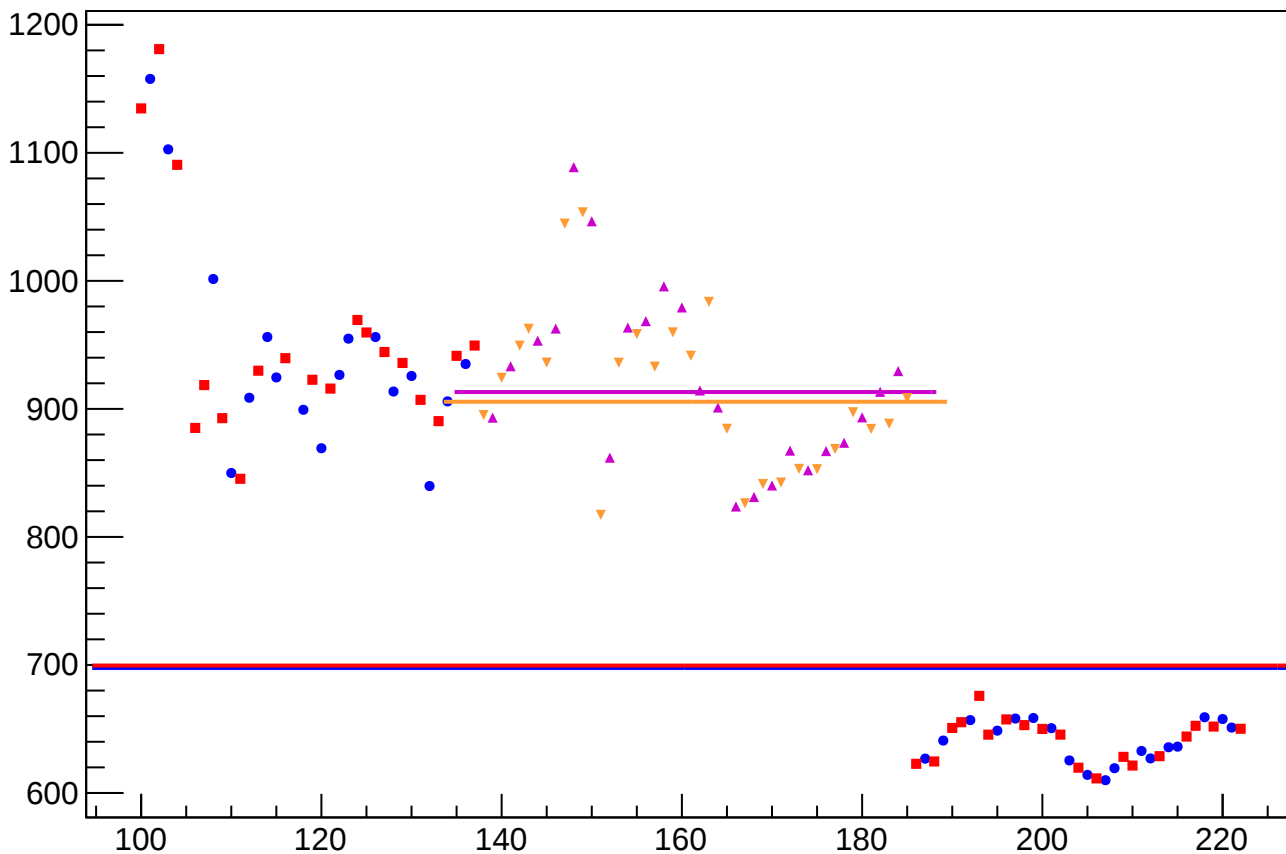
Right: -11.867 ± 0.112 $\chi^2/\text{NDF}: 425075.0/72$

In: -18.603 ± 0.130 $\chi^2/\text{NDF}: 189218.9/57$

Out: 13.152 ± 0.126 $\chi^2/\text{NDF}: 299126.1/62$

All: -2.293 ± 0.090 $\chi^2/\text{NDF}: 519134.0/120$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 697.665 $\pm$ 0.114 χ^2 /NDF: 1201386.5/34

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF:162073.5/24

Right Out: 699.521 $\pm$ 0.111 χ^2 /NDF: 1259901.1/37

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47

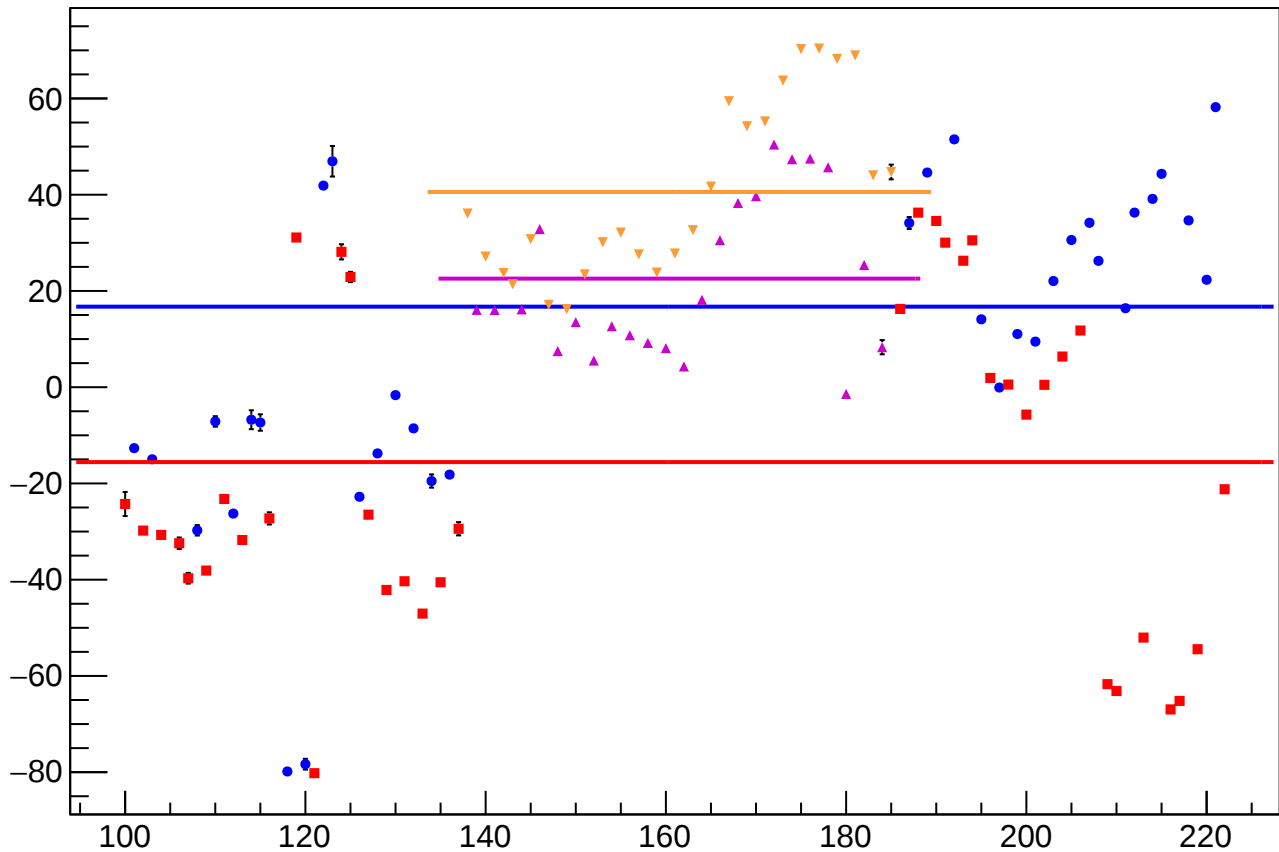
Right: 698.613 $\pm$ 0.079 χ^2 /NDF: 2461423.9/72

In: 772.653 $\pm$ 0.092 χ^2 /NDF:2628510.7/57

Out: 772.887 $\pm$ 0.089 χ^2 /NDF:2644286.7/62

All: 772.773 $\pm$ 0.064 χ^2 /NDF: 5272800.8/120

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 16.735 $\pm$ 0.121 χ^2/NDF : 52874.8/34

Left Out: 40.573 $\pm$ 0.168 χ^2/NDF :12079.0/24

Right Out: -15.563 $\pm$ 0.117 χ^2/NDF : 90058.7/37

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

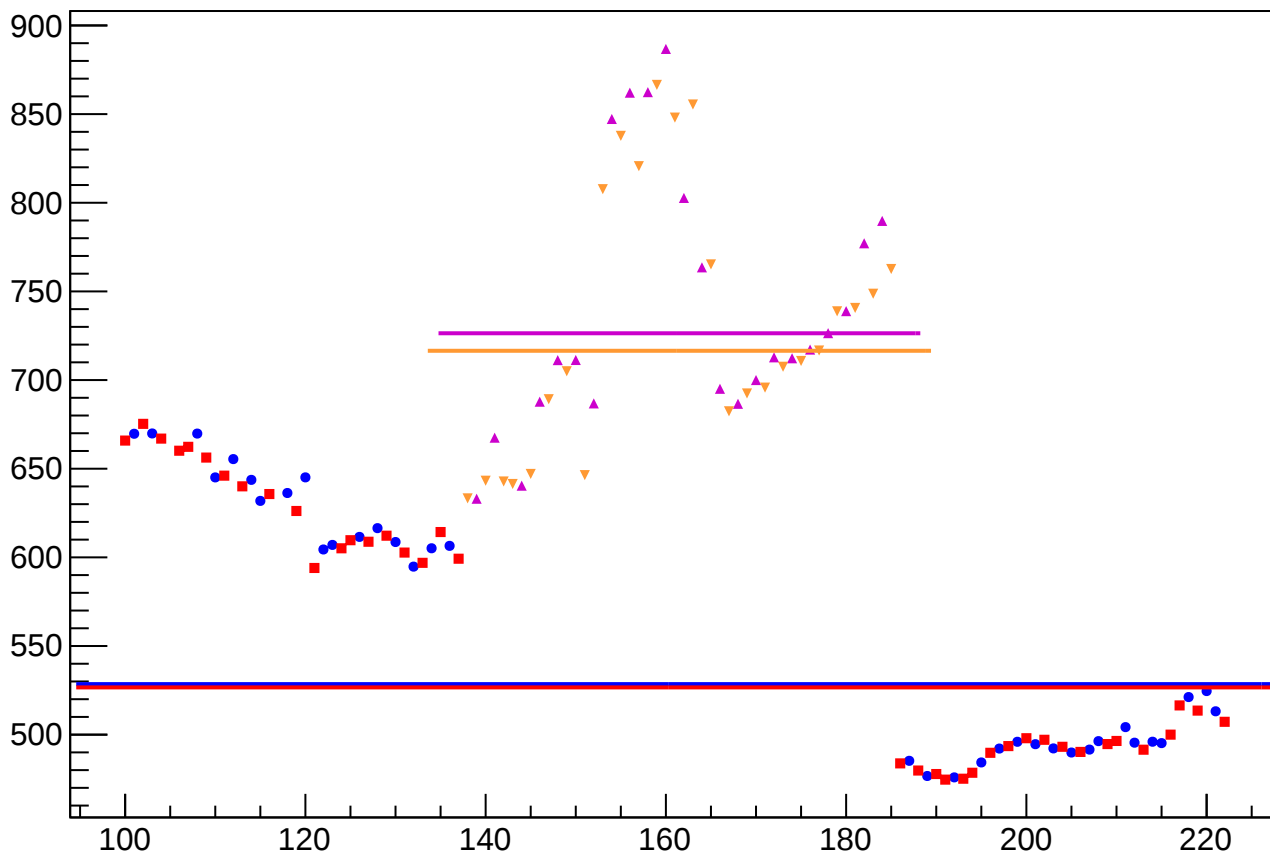
Right: 0.150 $\pm$ 0.084 χ^2/NDF : 179795.5/72

In: 18.607 $\pm$ 0.099 χ^2/NDF :61793.7/57

Out: 2.865 $\pm$ 0.096 χ^2/NDF :177279.2/62

All: 10.482 $\pm$ 0.069 χ^2/NDF : 252038.1/120

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 528.510 $\pm$ 0.085 χ^2 /NDF: 500480.8/34

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24

Right Out: 526.649 $\pm$ 0.083 χ^2 /NDF: 544570.5/37

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

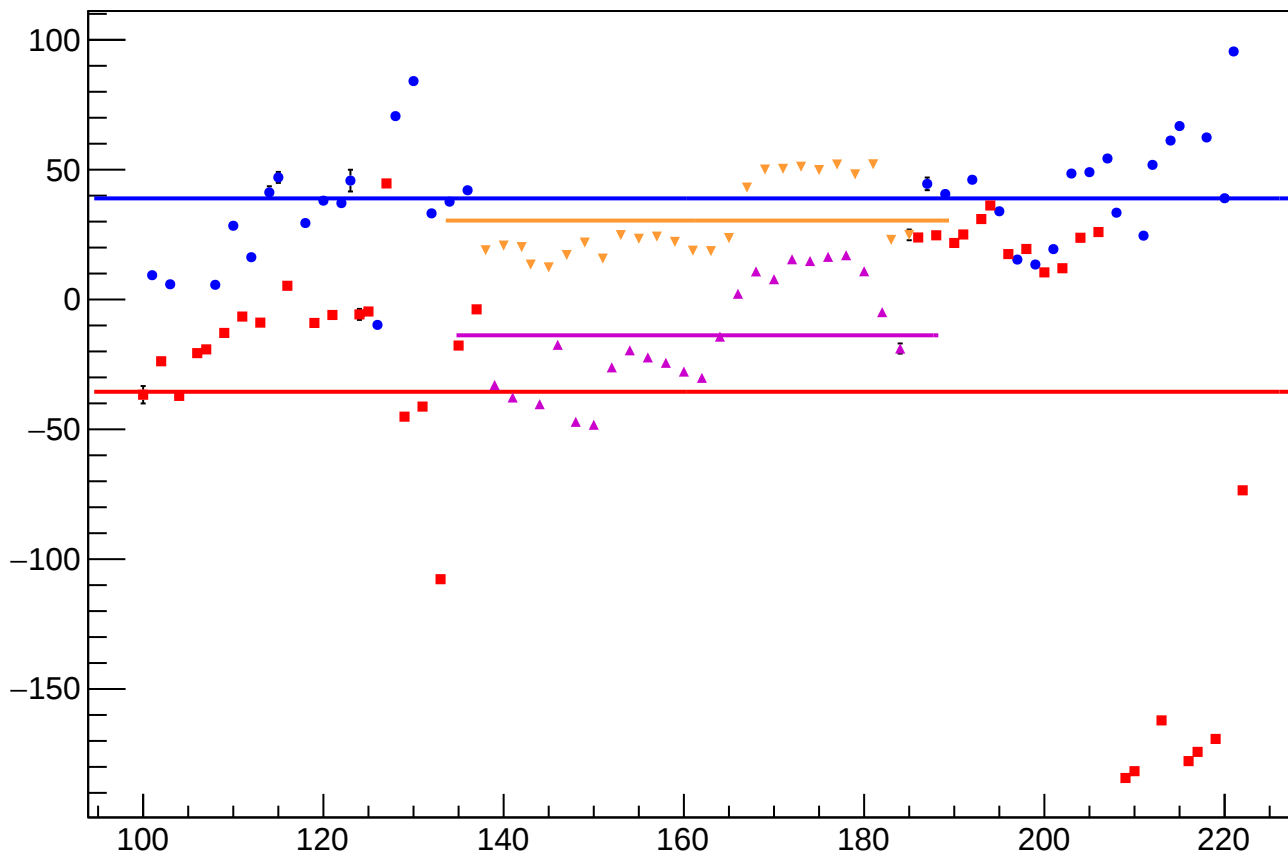
Right: 527.554 $\pm$ 0.059 χ^2 /NDF: 1045296.2/72

In: 592.050 $\pm$ 0.070 χ^2 /NDF: 2520733.4/57

Out: 588.977 $\pm$ 0.068 χ^2 /NDF: 2606524.4/62

All: 590.464 $\pm$ 0.049 χ^2 /NDF: 5128245.7/120

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 38.941 $\pm$ 0.199 χ^2 /NDF: 11941.5/34

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF: 3808.0/24

Right Out: -35.535 $\pm$ 0.194 χ^2 /NDF: 141580.1/37

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF: 7979.7/22

Left: 9.082 $\pm$ 0.171 χ^2 /NDF: 28511.9/47

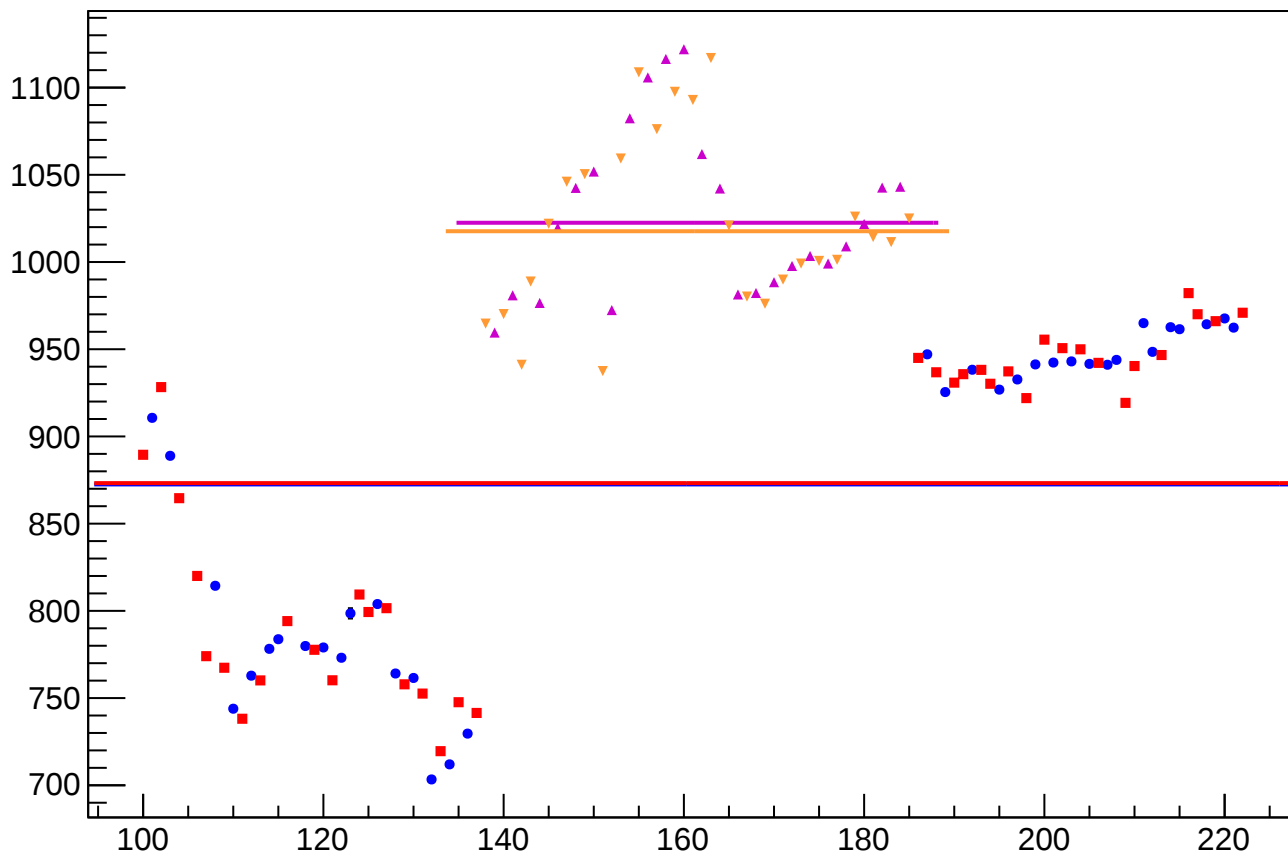
Right: 0.835 $\pm$ 0.139 χ^2 /NDF: 225290.3/72

In: 18.085 $\pm$ 0.155 χ^2 /NDF: 47730.2/57

Out: -9.086 $\pm$ 0.150 χ^2 /NDF: 191600.0/62

All: 4.120 $\pm$ 0.108 χ^2 /NDF: 255205.3/120

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 872.488 $\pm$ 0.141 χ^2 /NDF: 432762.2/34

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 873.242 $\pm$ 0.137 χ^2 /NDF: 420386.6/37

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

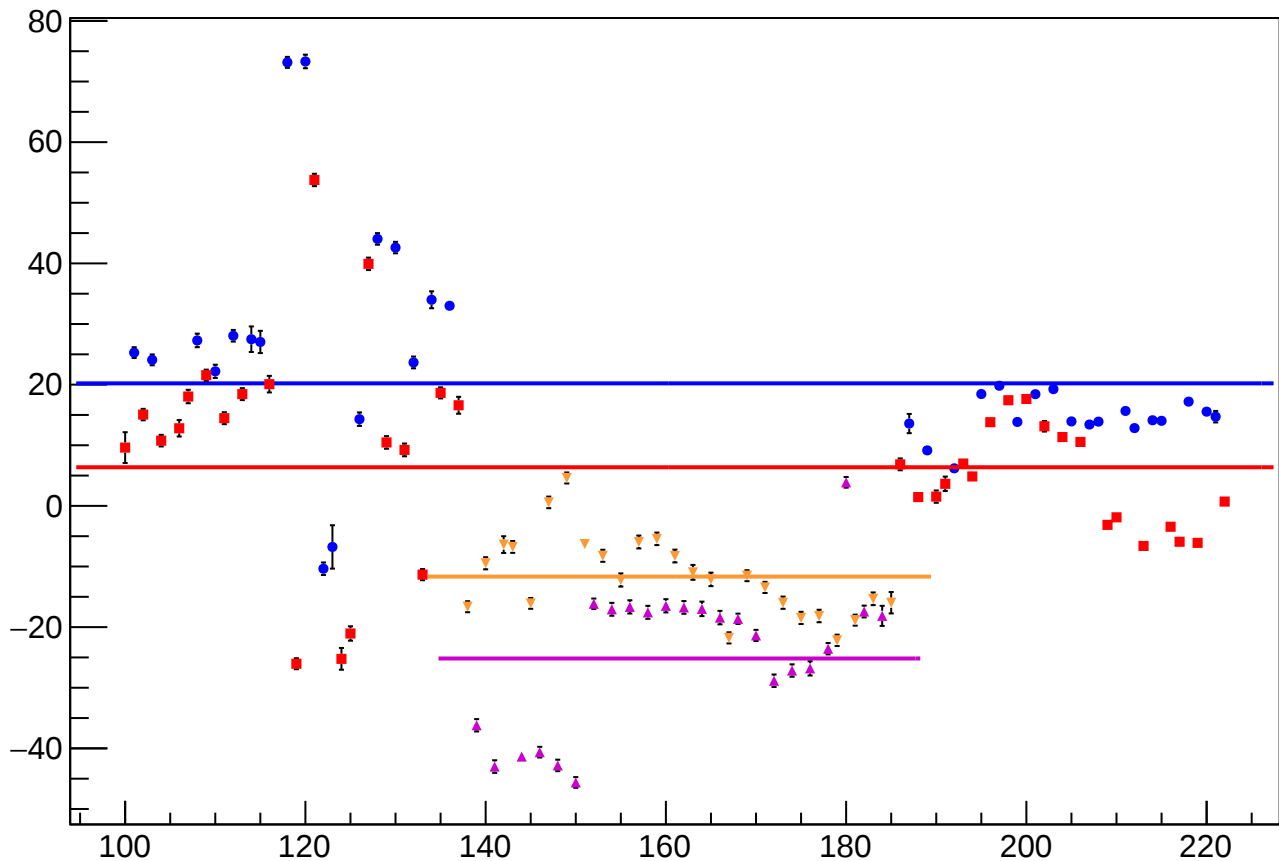
Right: 872.874 $\pm$ 0.098 χ^2 /NDF: 853163.5/72

In: 931.827 $\pm$ 0.109 χ^2 /NDF: 952650.8/57

Out: 931.162 $\pm$ 0.106 χ^2 /NDF: 947243.4/62

All: 931.485 $\pm$ 0.076 χ^2 /NDF: 1899913.2/120

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.209+/-0.140 χ^2/NDF : 9927.2/34

Left Out: -11.664+/-0.200 χ^2/NDF : 1147.4/24

Right Out: 6.372+/-0.136 χ^2/NDF : 9417.3/37

Left In: -25.174+/-0.207 χ^2/NDF : 3747.1/22

Left: -18.184+/-0.144 χ^2/NDF : 7090.4/47

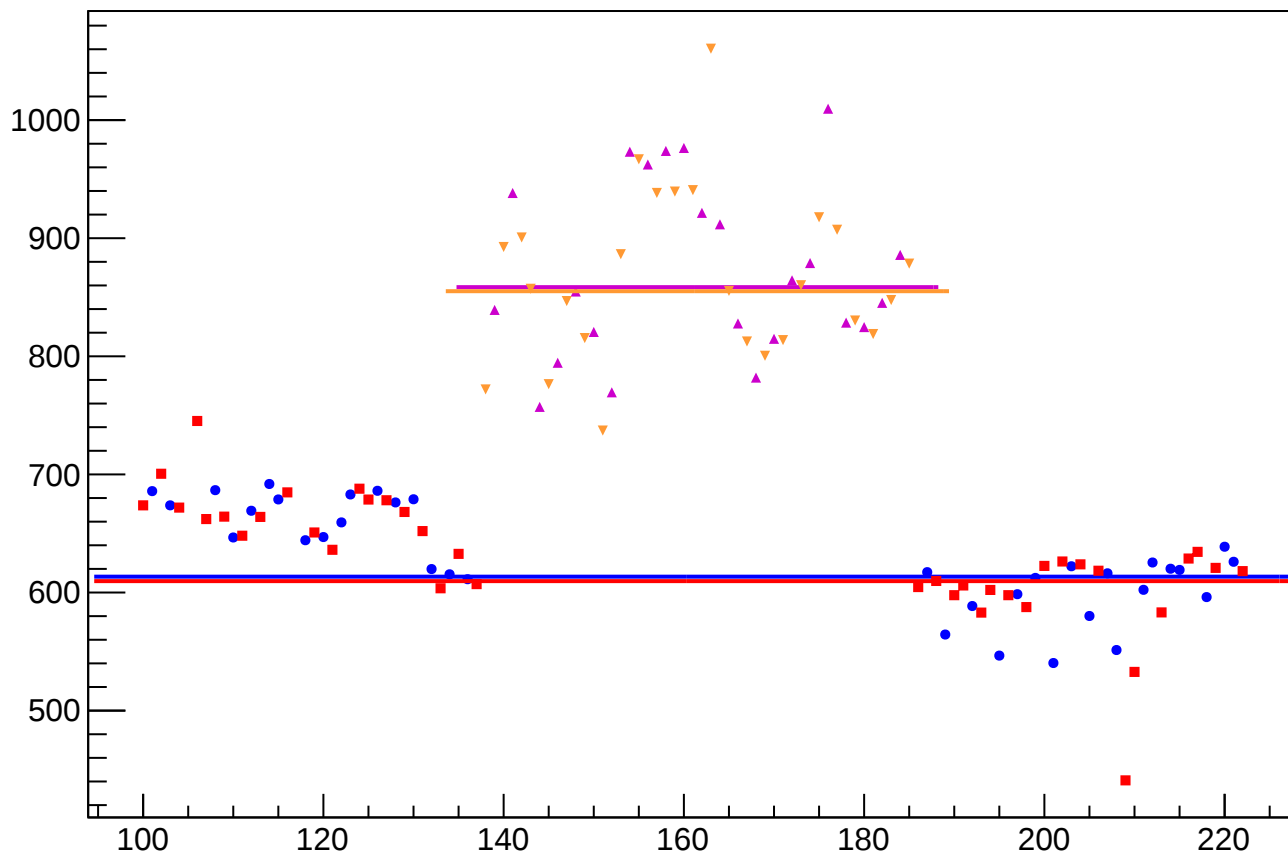
Right: 13.090+/-0.097 χ^2/NDF : 24390.3/72

In: 6.040+/-0.116 χ^2/NDF : 46614.6/57

Out: 0.696+/-0.112 χ^2/NDF : 16121.8/62

All: 3.286+/-0.081 χ^2/NDF : 63832.9/120

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 613.426+/-0.099 χ^2/NDF : 169423.9/34

Left Out: 855.131+/-0.142 χ^2/NDF : 233746.7/24

Right Out: 609.649+/-0.096 χ^2/NDF : 367173.0/37

Left In: 858.563+/-0.147 χ^2/NDF : 239019.8/22

Left: 856.788+/-0.102 χ^2/NDF : 473049.9/47

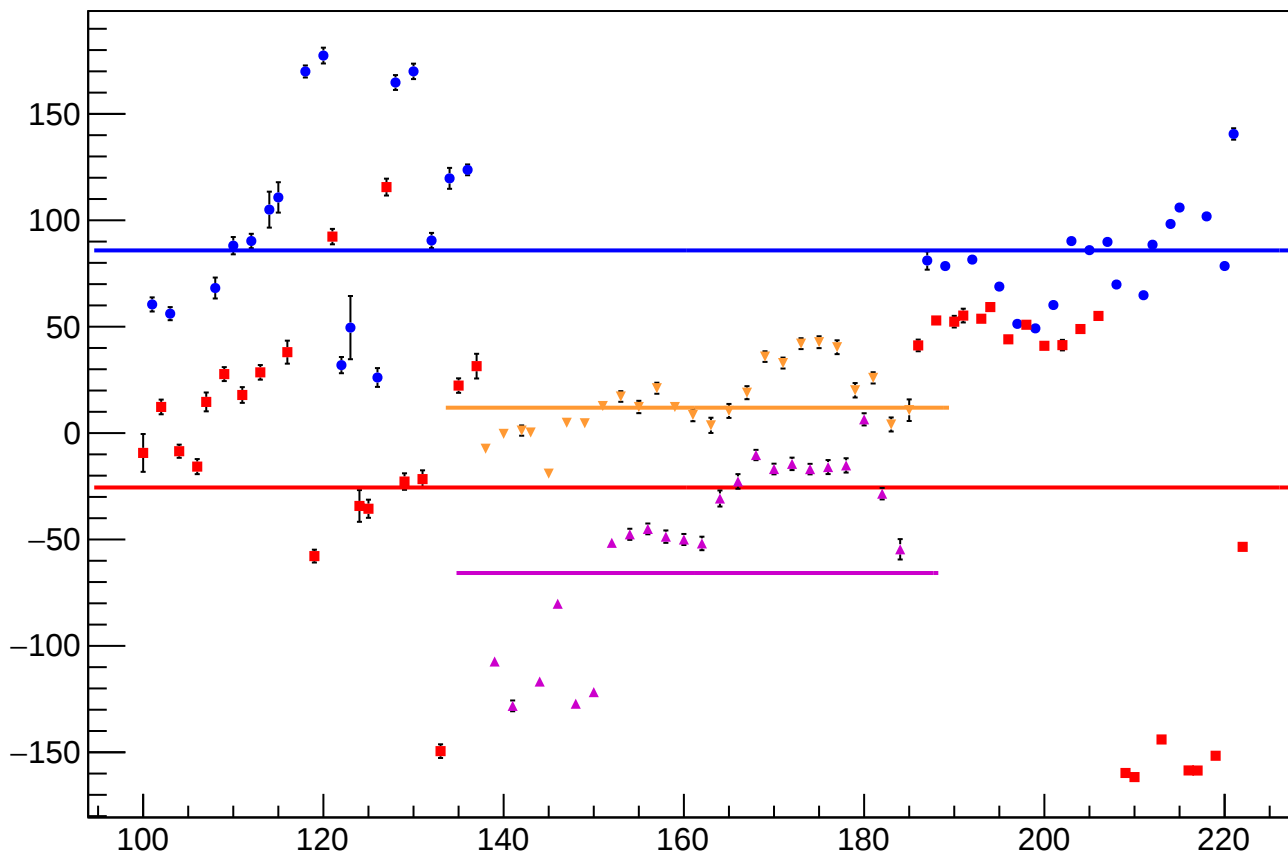
Right: 611.483+/-0.069 χ^2/NDF : 537348.6/72

In: 689.959+/-0.082 χ^2/NDF : 2330651.8/57

Out: 686.910+/-0.079 χ^2/NDF : 2659849.7/62

All: 688.387+/-0.057 χ^2/NDF : 4991215.2/120

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 85.846 ± 0.416 $\chi^2/\text{NDF}: 5239.6/34$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: -25.559 ± 0.401 $\chi^2/\text{NDF}: 53270.3/37$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

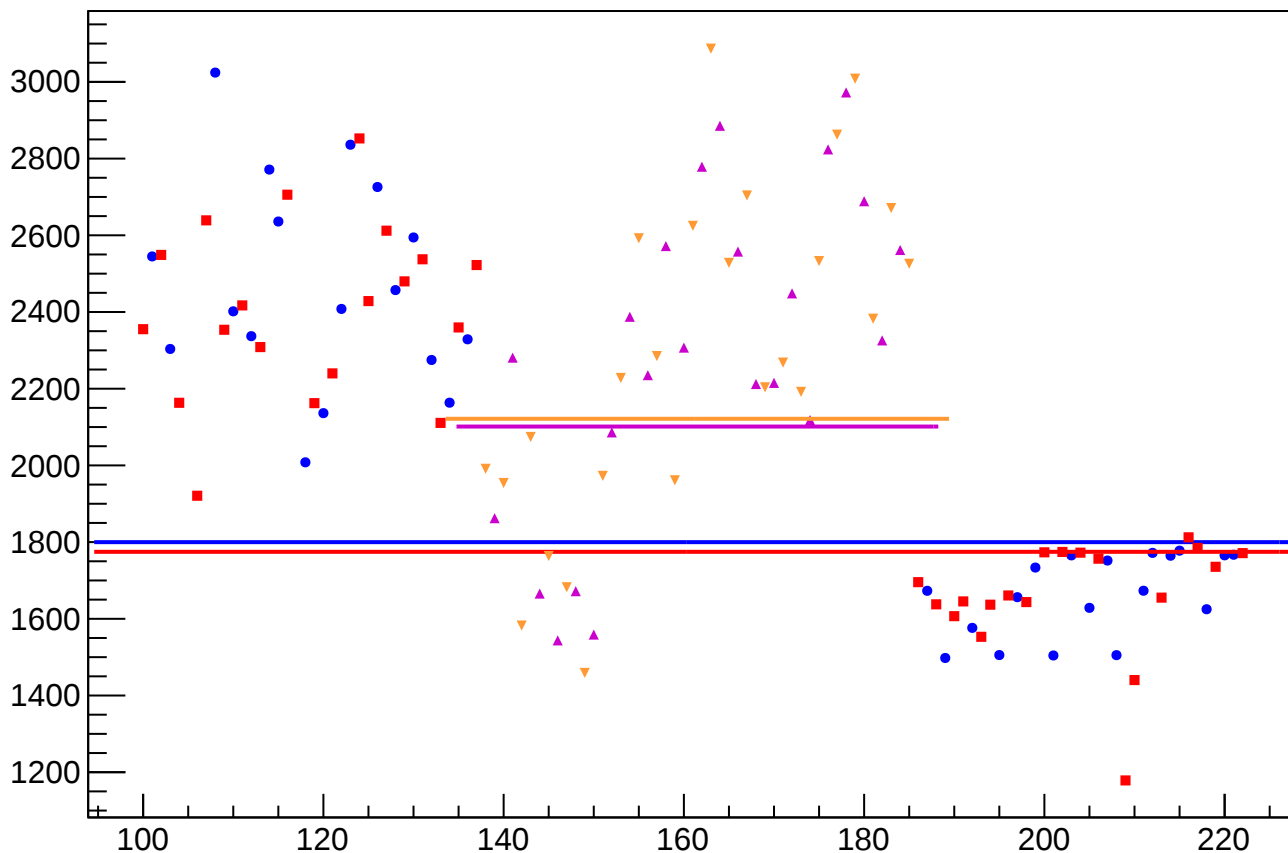
Right: 28.092 ± 0.289 $\chi^2/\text{NDF}: 95625.8/72$

In: 26.302 ± 0.324 $\chi^2/\text{NDF}: 64647.9/57$

Out: -11.057 ± 0.314 $\chi^2/\text{NDF}: 57623.7/62$

All: 7.027 ± 0.226 $\chi^2/\text{NDF}: 129112.5/120$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1799.900 $\pm$ 0.294

χ^2 /NDF: 1203464.9/34

Left Out: 2121.567 $\pm$ 0.357

χ^2 /NDF: 1387847.6/24

Right Out: 1774.667 $\pm$ 0.284

χ^2 /NDF: 1478857.6/37

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: 1786.819 $\pm$ 0.204

χ^2 /NDF: 2686130.7/72

In: 1918.292 $\pm$ 0.229

χ^2 /NDF: 2975714.1/57

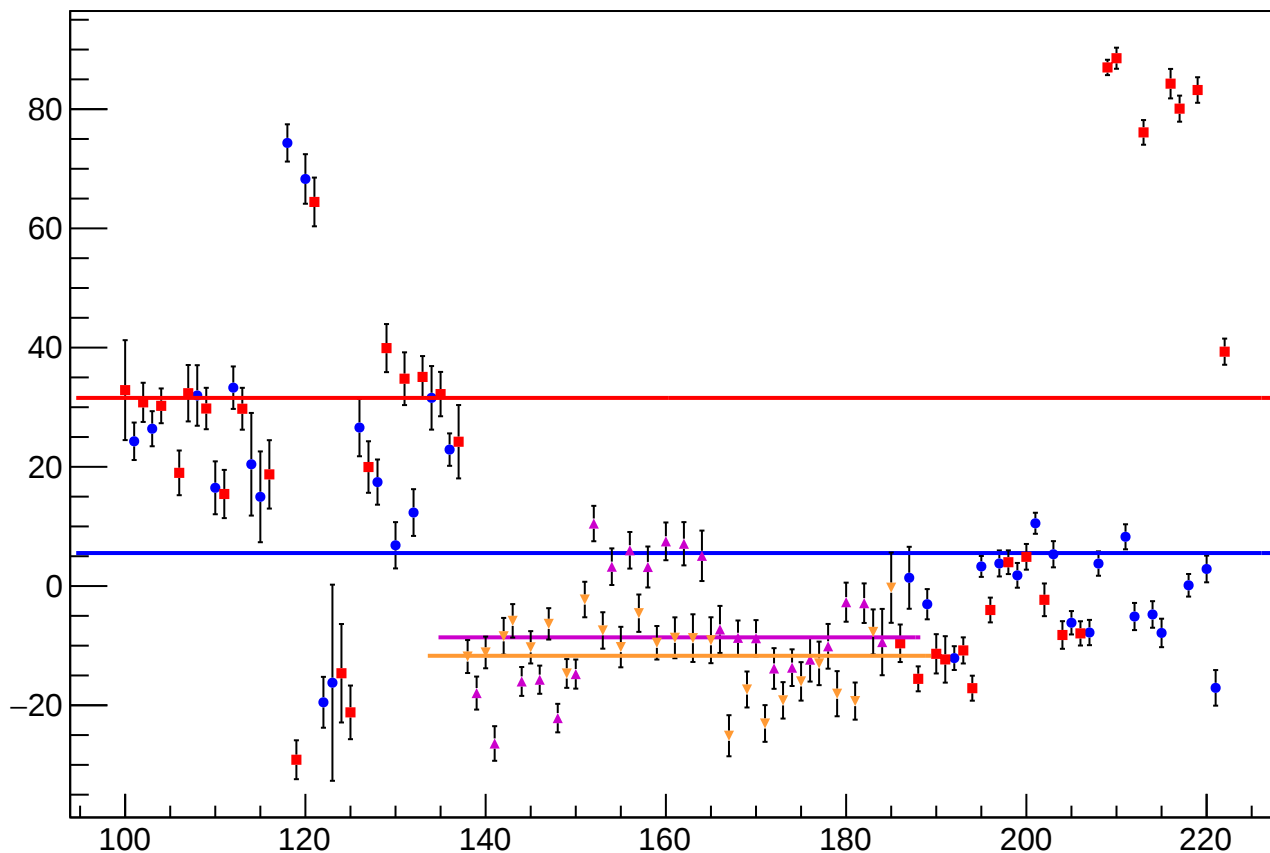
Out: 1908.829 $\pm$ 0.222

χ^2 /NDF: 3444732.4/62

All: 1913.410 $\pm$ 0.160

χ^2 /NDF: 6421324.4/12

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 5.535 ± 0.452 $\chi^2/\text{NDF}: 1352.2/34$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 31.560 ± 0.435 $\chi^2/\text{NDF}: 8867.8/37$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

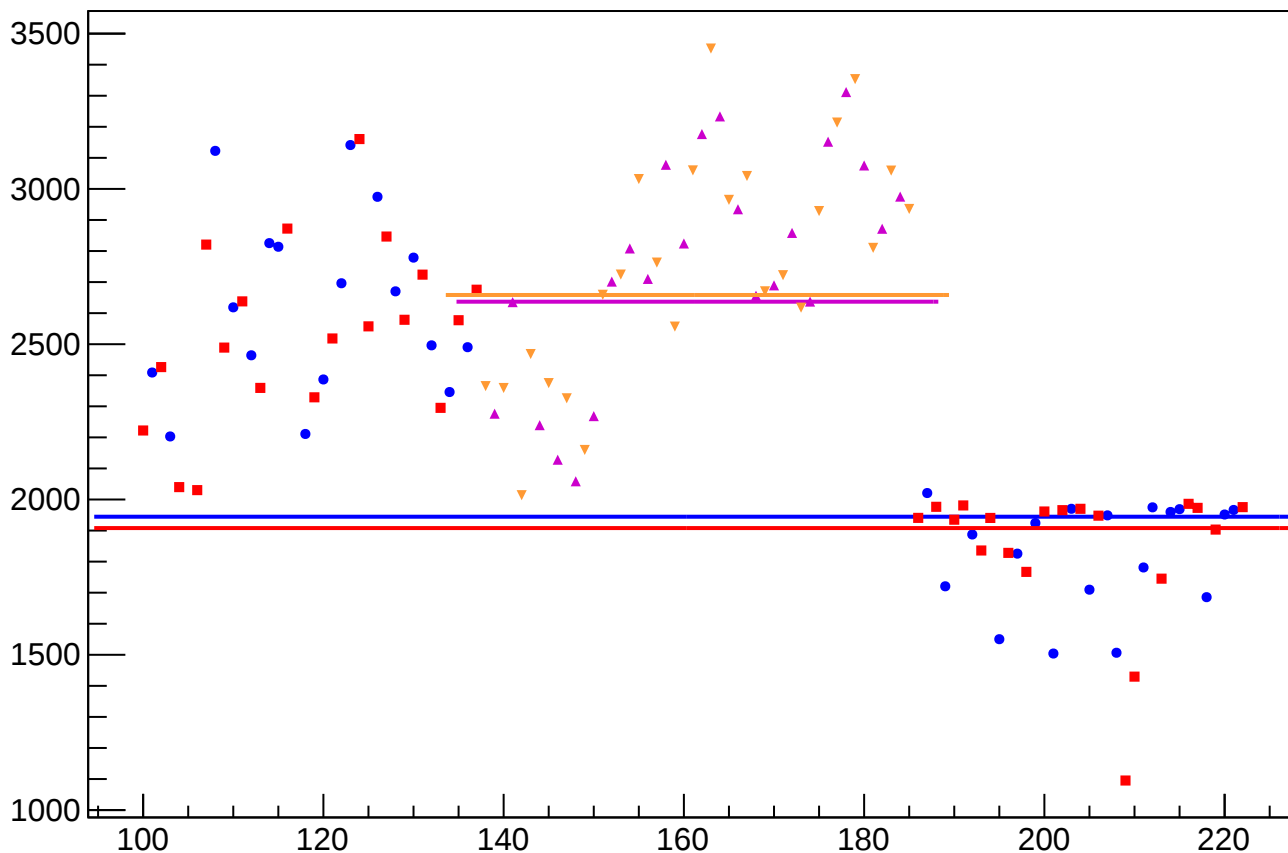
Right: 19.060 ± 0.313 $\chi^2/\text{NDF}: 11942.9/72$

In: 0.848 ± 0.370 $\chi^2/\text{NDF}: 1940.9/57$

Out: 17.477 ± 0.357 $\chi^2/\text{NDF}: 12179.4/62$

All: 9.453 ± 0.257 $\chi^2/\text{NDF}: 15168.0/120$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1944.588 $\pm$ 0.320

χ^2 /NDF: 1220792.8/34

Left Out: 2658.486 $\pm$ 0.442

χ^2 /NDF: 618133.8/24

Right Out: 1908.010 $\pm$ 0.307

χ^2 /NDF: 1830212.5/37

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

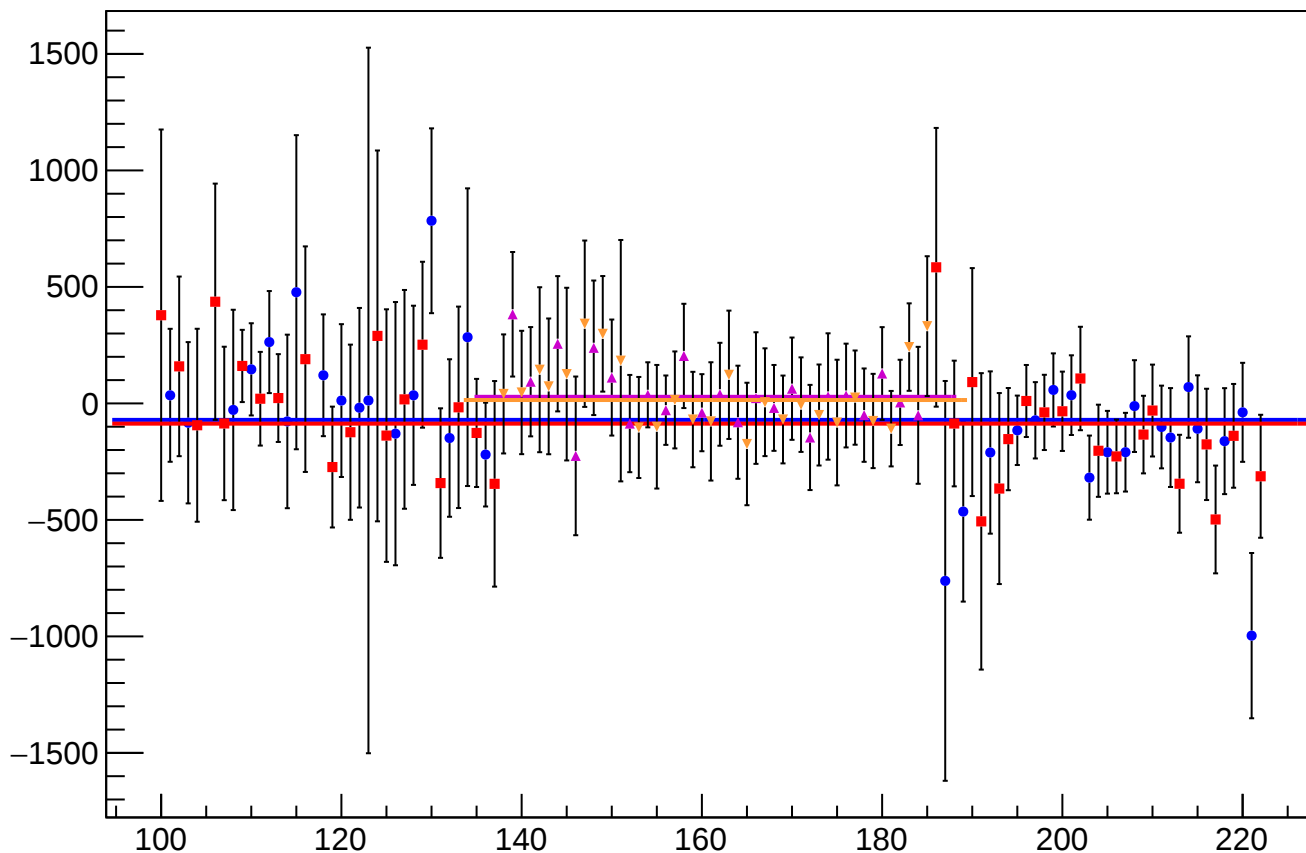
Right: 1925.579 $\pm$ 0.222 χ^2 /NDF: 3057812.1/72

In: 2174.054 $\pm$ 0.261 χ^2 /NDF: 3428842.0/57

Out: 2152.329 $\pm$ 0.252 χ^2 /NDF: 4390464.7/62

All: 2162.811 $\pm$ 0.182 χ^2 /NDF: 7822883.1/12

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -70.690 ± 40.847 χ^2/NDF : 24.4/34

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -86.891 ± 40.496 χ^2/NDF : 18.7/37

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

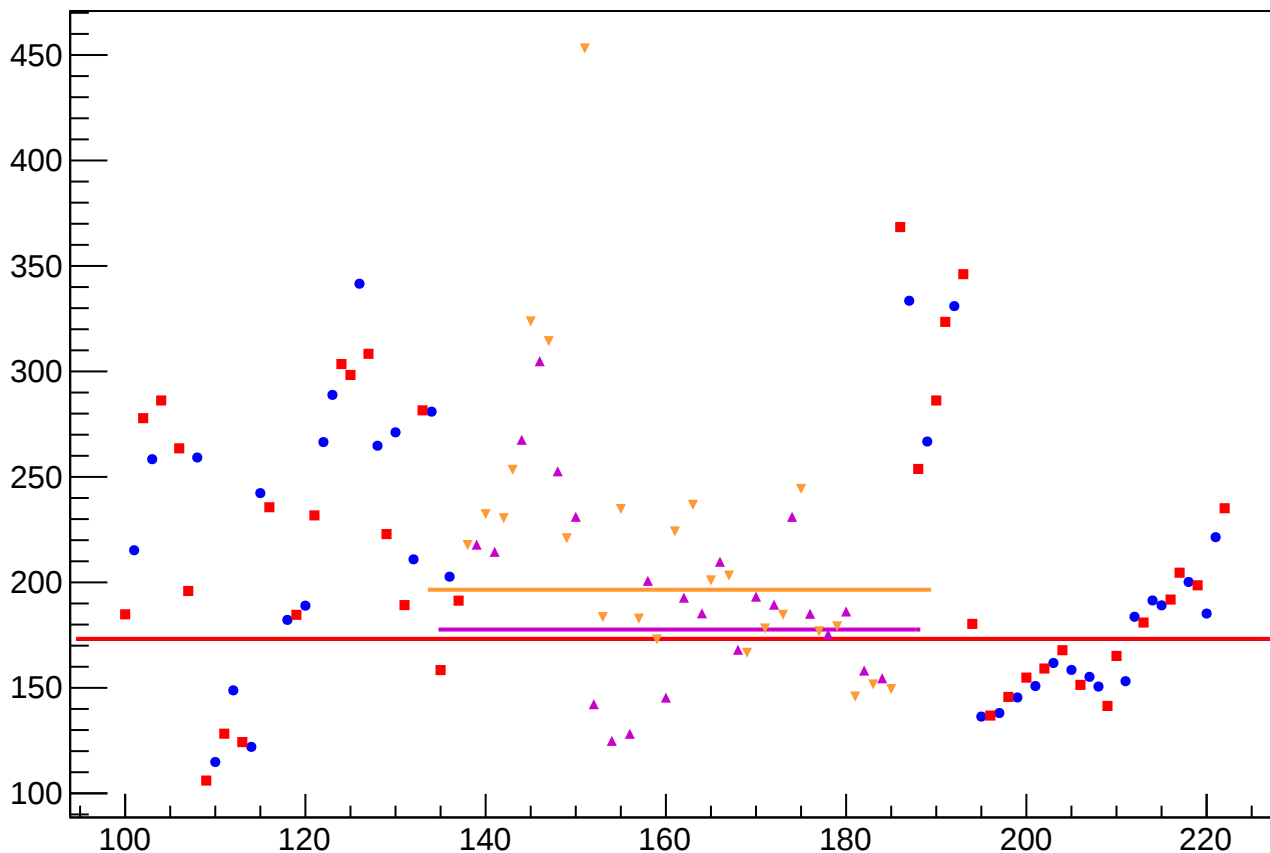
Right: -78.860 ± 28.758 χ^2/NDF : 43.1/72

In: -25.572 ± 30.135 χ^2/NDF : 33.3/57

Out: -44.236 ± 30.825 χ^2/NDF : 29.1/62

All: -34.693 ± 21.548 χ^2/NDF : 62.6/120

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.182 $\pm$ 0.029 χ^2 /NDF: 2249985.6/34

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 173.222 $\pm$ 0.029 χ^2 /NDF: 3043343.8/37

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

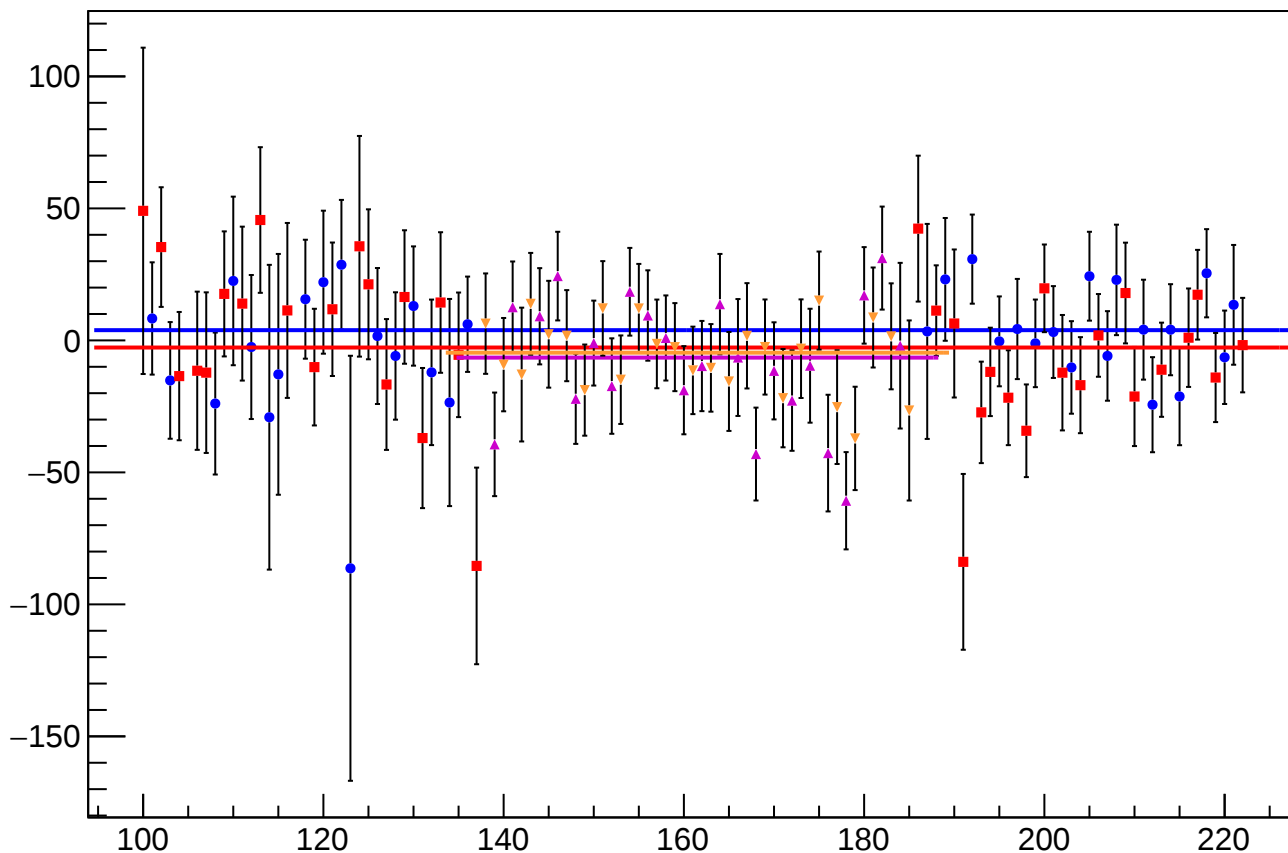
Right: 173.202 $\pm$ 0.020 χ^2 /NDF: 5293330.4/72

In: 175.215 $\pm$ 0.021 χ^2 /NDF:3891521.5/57

Out: 183.019 $\pm$ 0.022 χ^2 /NDF:5111140.3/62

All: 179.029 $\pm$ 0.015 χ^2 /NDF: 9068208.2/120

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.875 ± 3.612 $\chi^2/\text{NDF}: 20.0/34$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -2.703 ± 3.552 $\chi^2/\text{NDF}: 40.7/37$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

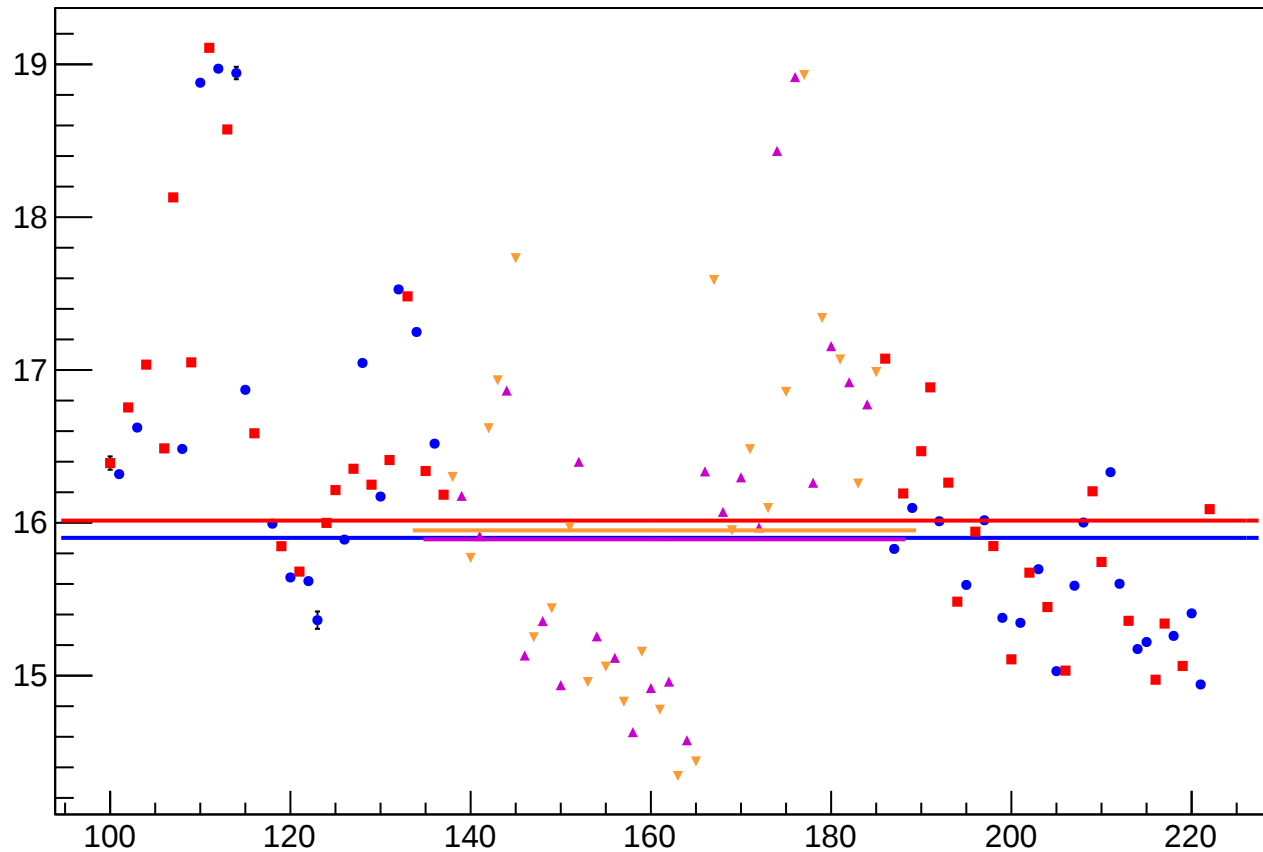
Right: 0.532 ± 2.532 $\chi^2/\text{NDF}: 62.5/72$

In: -1.024 ± 2.627 $\chi^2/\text{NDF}: 60.3/57$

Out: -3.627 ± 2.572 $\chi^2/\text{NDF}: 52.9/62$

All: -2.353 ± 1.838 $\chi^2/\text{NDF}: 113.8/120$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.902 $\pm$ 0.003 χ^2 /NDF: 97341.1/34

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.015 $\pm$ 0.003 χ^2 /NDF: 111033.7/37

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

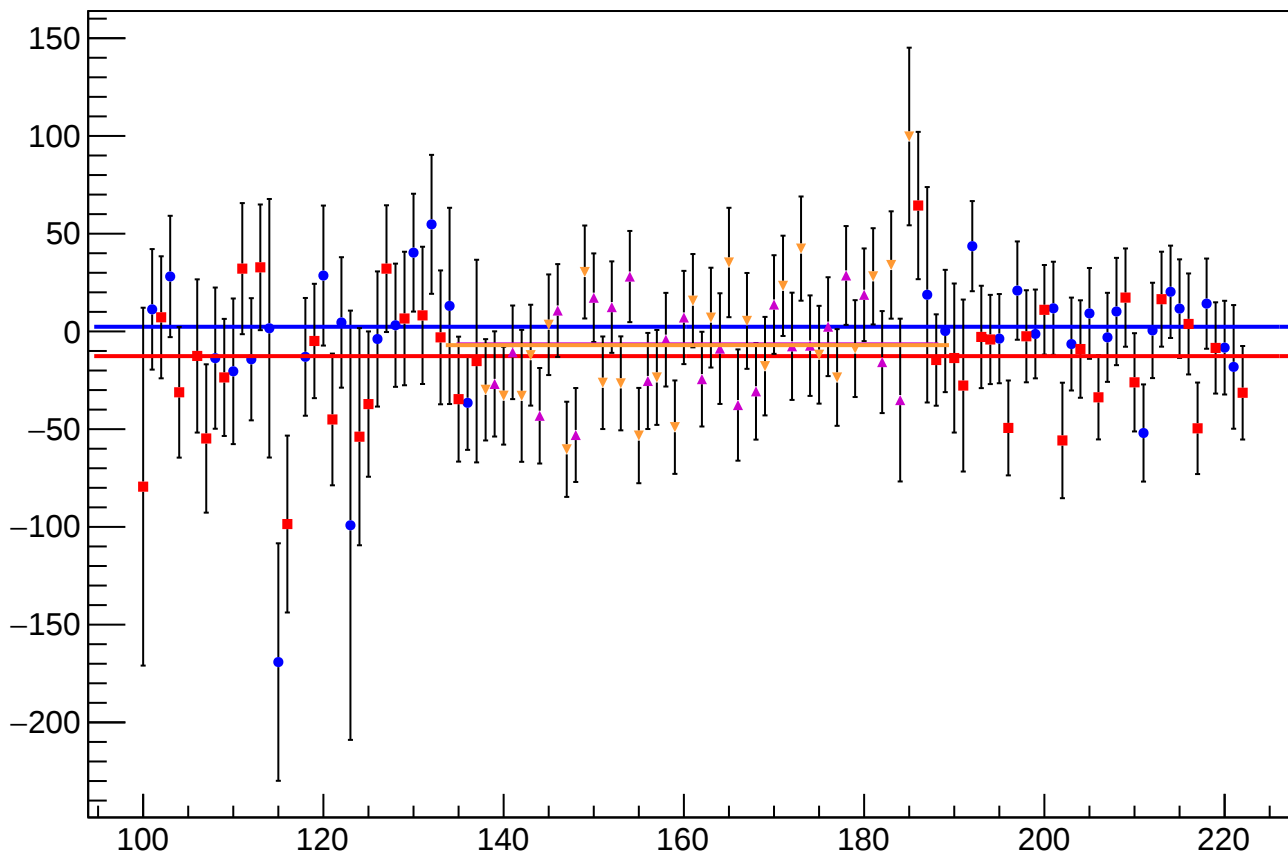
Right: 15.959 $\pm$ 0.002 χ^2 /NDF: 209370.1/72

In: 15.897 $\pm$ 0.002 χ^2 /NDF:244441.2/57

Out: 15.984 $\pm$ 0.002 χ^2 /NDF:284799.5/62

All: 15.942 $\pm$ 0.001 χ^2 /NDF: 530365.8/120

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.383 ± 4.855 $\chi^2/\text{NDF}: 28.5/34$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.636 ± 4.769 $\chi^2/\text{NDF}: 33.0/37$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

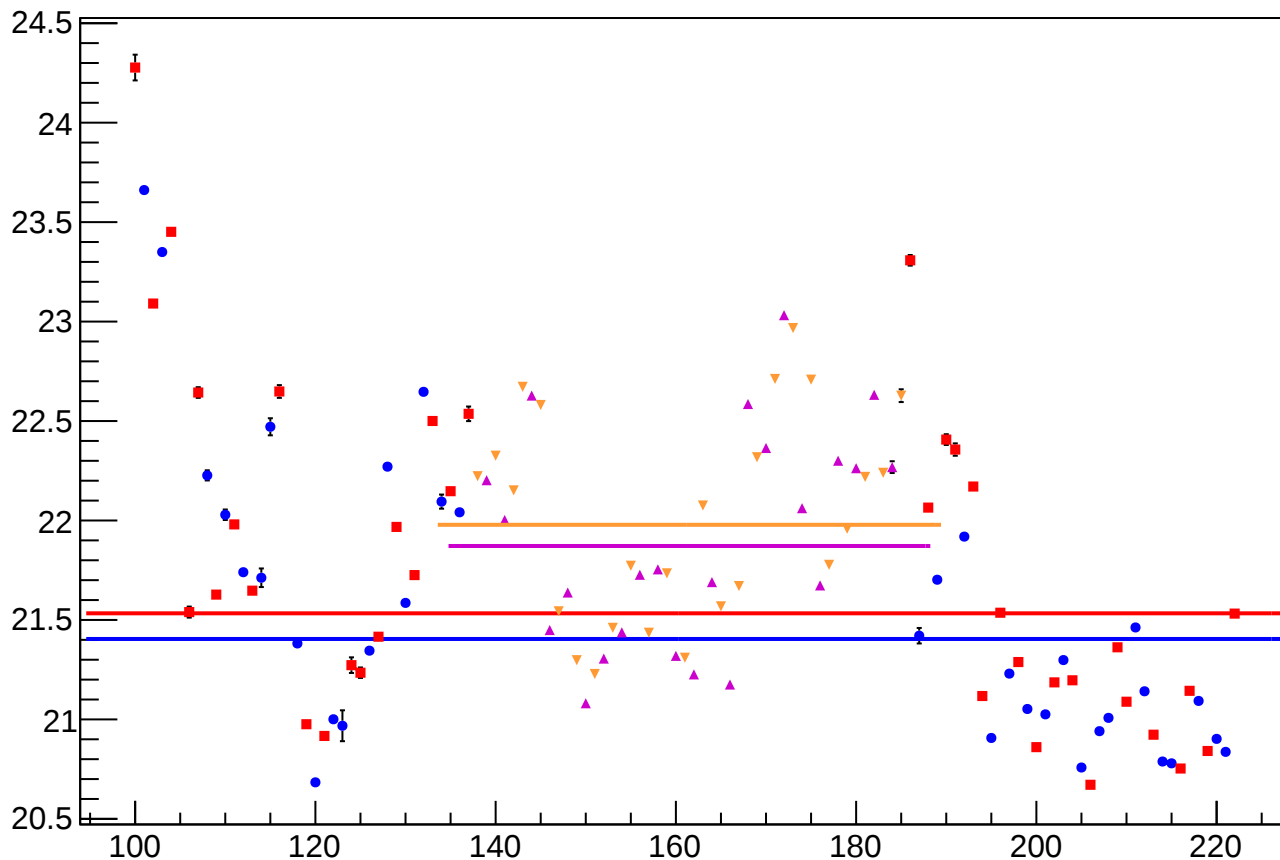
Right: -5.261 ± 3.402 $\chi^2/\text{NDF}: 66.4/72$

In: -1.762 ± 3.565 $\chi^2/\text{NDF}: 49.2/57$

Out: -10.026 ± 3.490 $\chi^2/\text{NDF}: 71.1/62$

All: -5.982 ± 2.494 $\chi^2/\text{NDF}: 123.1/120$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.404 ± 0.003 $\chi^2/\text{NDF}: 38777.6/34$

Left Out: 21.978 ± 0.004 $\chi^2/\text{NDF}: 19430.2/24$

Right Out: 21.533 ± 0.003 $\chi^2/\text{NDF}: 42720.8/37$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.926 ± 0.003 $\chi^2/\text{NDF}: 40377.5/47$

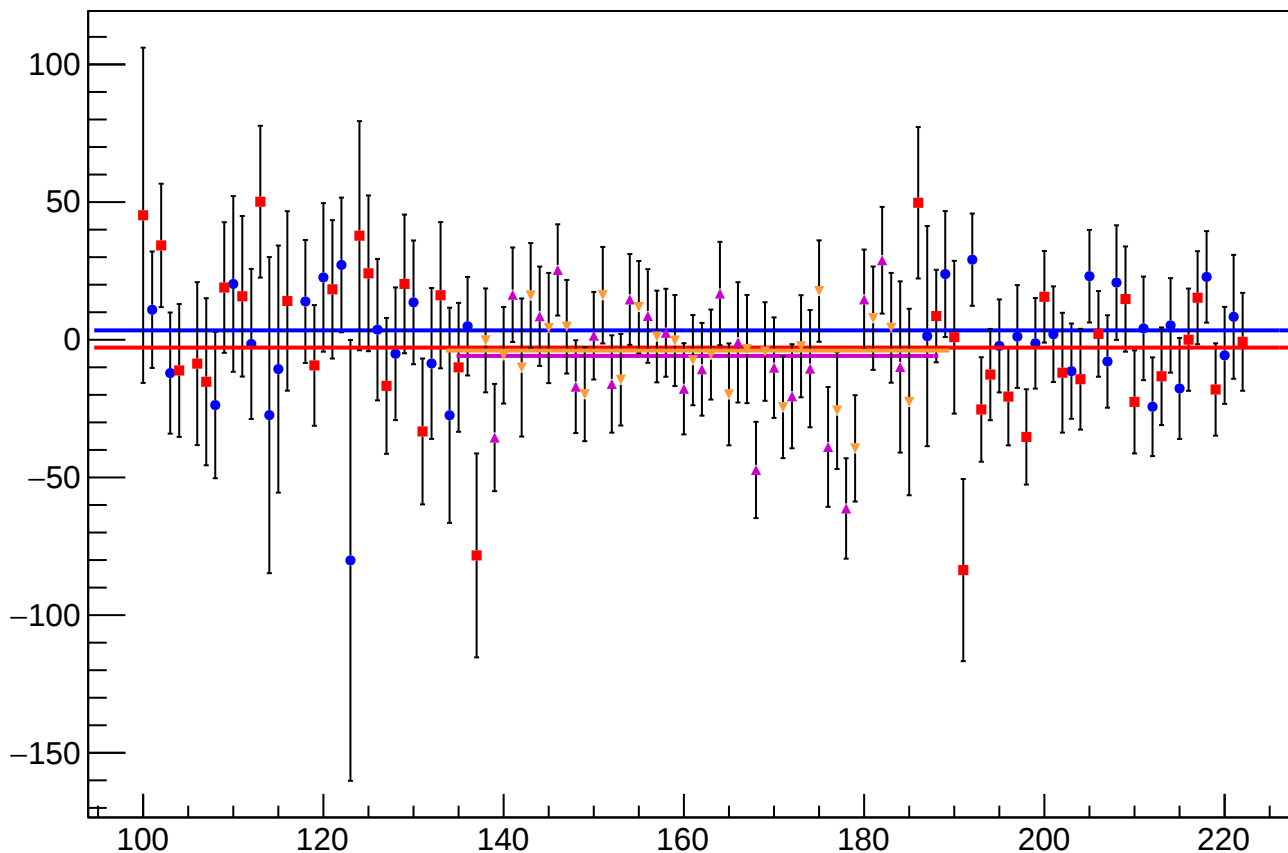
Right: 21.470 ± 0.002 $\chi^2/\text{NDF}: 82216.5/72$

In: 21.620 ± 0.003 $\chi^2/\text{NDF}: 67845.2/57$

Out: 21.740 ± 0.002 $\chi^2/\text{NDF}: 70240.8/62$

All: 21.681 ± 0.002 $\chi^2/\text{NDF}: 139247.8/120$

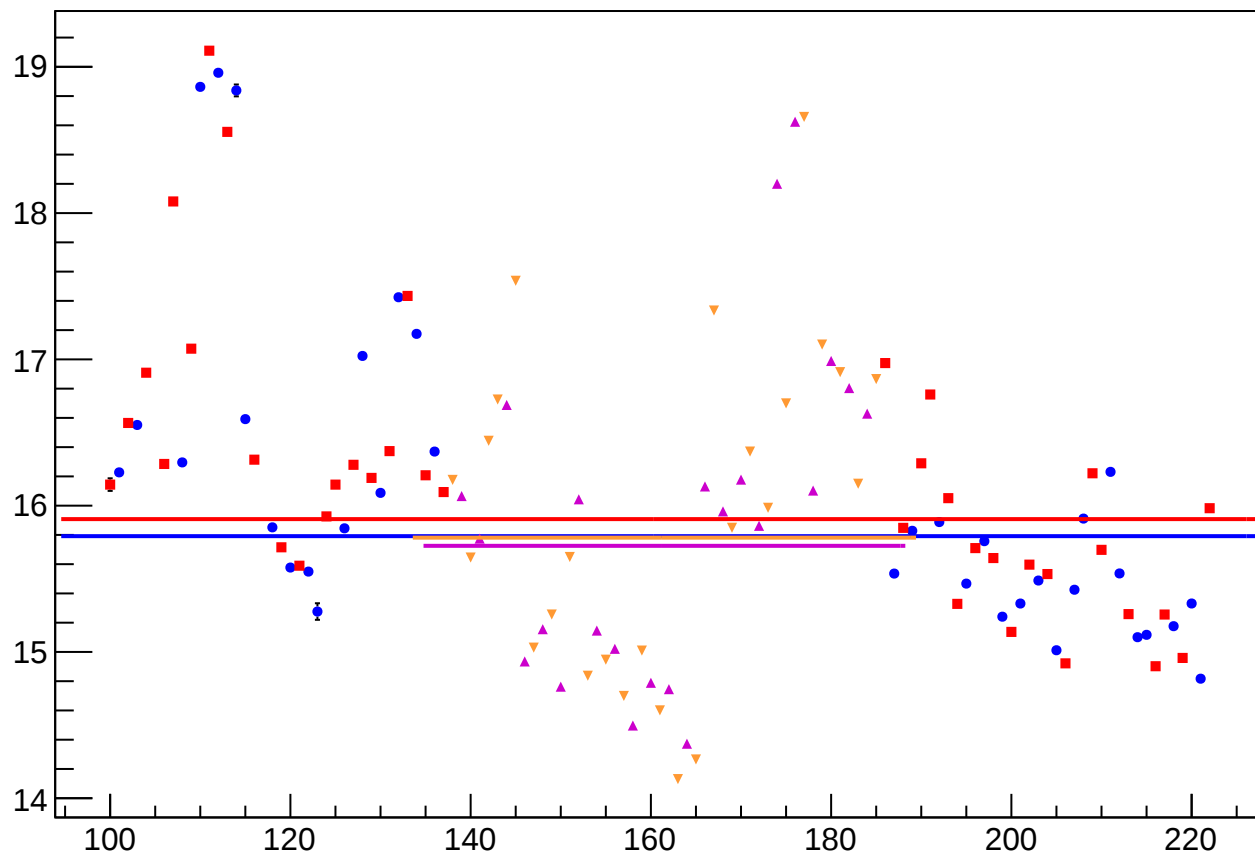
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.414 ± 3.587 $\chi^2/\text{NDF}: 18.3/34$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -2.836 ± 3.529 $\chi^2/\text{NDF}: 41.4/37$
 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: 0.238 ± 2.516 $\chi^2/\text{NDF}: 61.3/72$
 In: -0.972 ± 2.604 $\chi^2/\text{NDF}: 57.7/57$
 Out: -3.358 ± 2.550 $\chi^2/\text{NDF}: 55.4/62$
 All: -2.190 ± 1.822 $\chi^2/\text{NDF}: 113.5/120$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.792 $\pm$ 0.003 χ^2 /NDF: 99259.0/34

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 15.908 $\pm$ 0.002 χ^2 /NDF: 112779.0/37

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

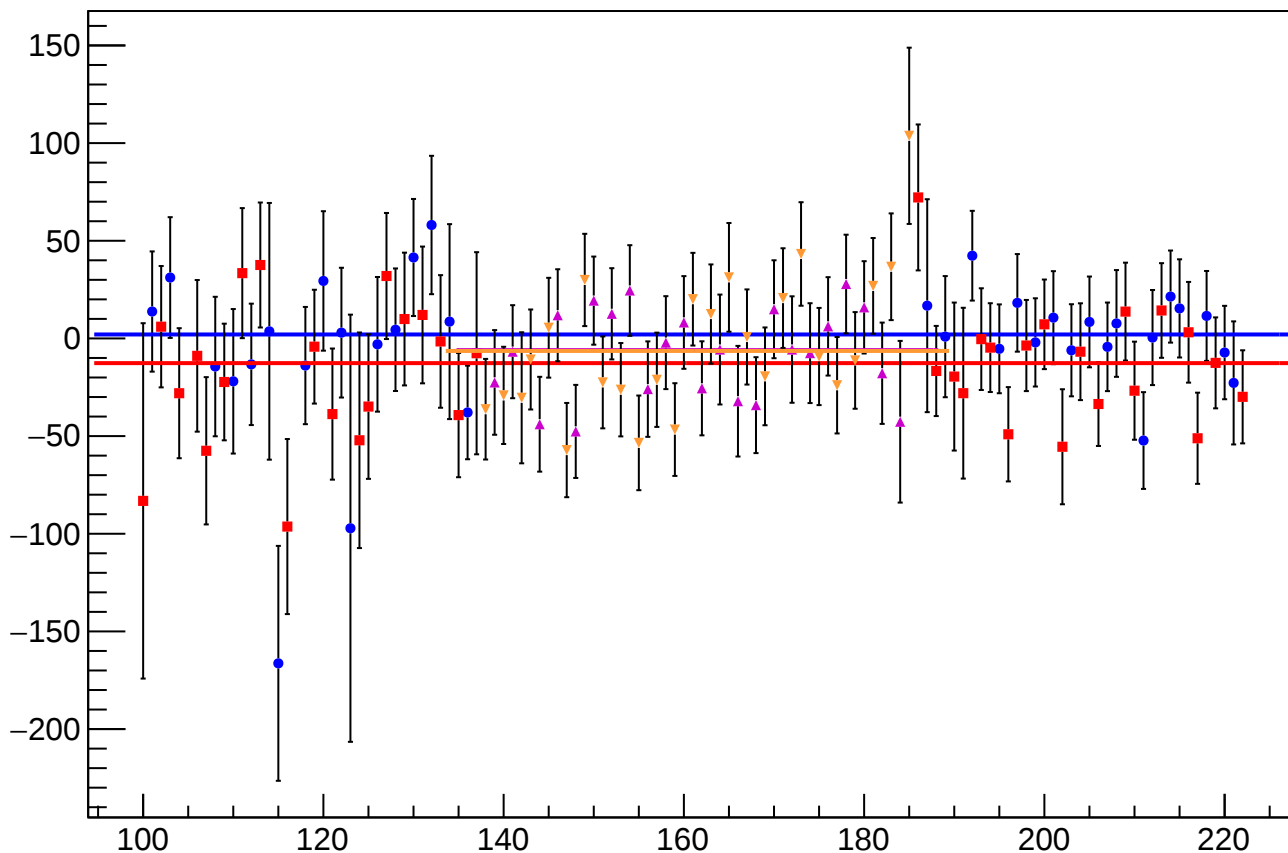
Right: 15.851 $\pm$ 0.002 χ^2 /NDF: 213110.3/72

In: 15.760 $\pm$ 0.002 χ^2 /NDF:245411.3/57

Out: 15.847 $\pm$ 0.002 χ^2 /NDF:286906.3/62

All: 15.805 $\pm$ 0.001 χ^2 /NDF: 533462.6/120

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.029 ± 4.835 $\chi^2/\text{NDF}: 29.4/34$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.638 ± 4.747 $\chi^2/\text{NDF}: 34.1/37$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

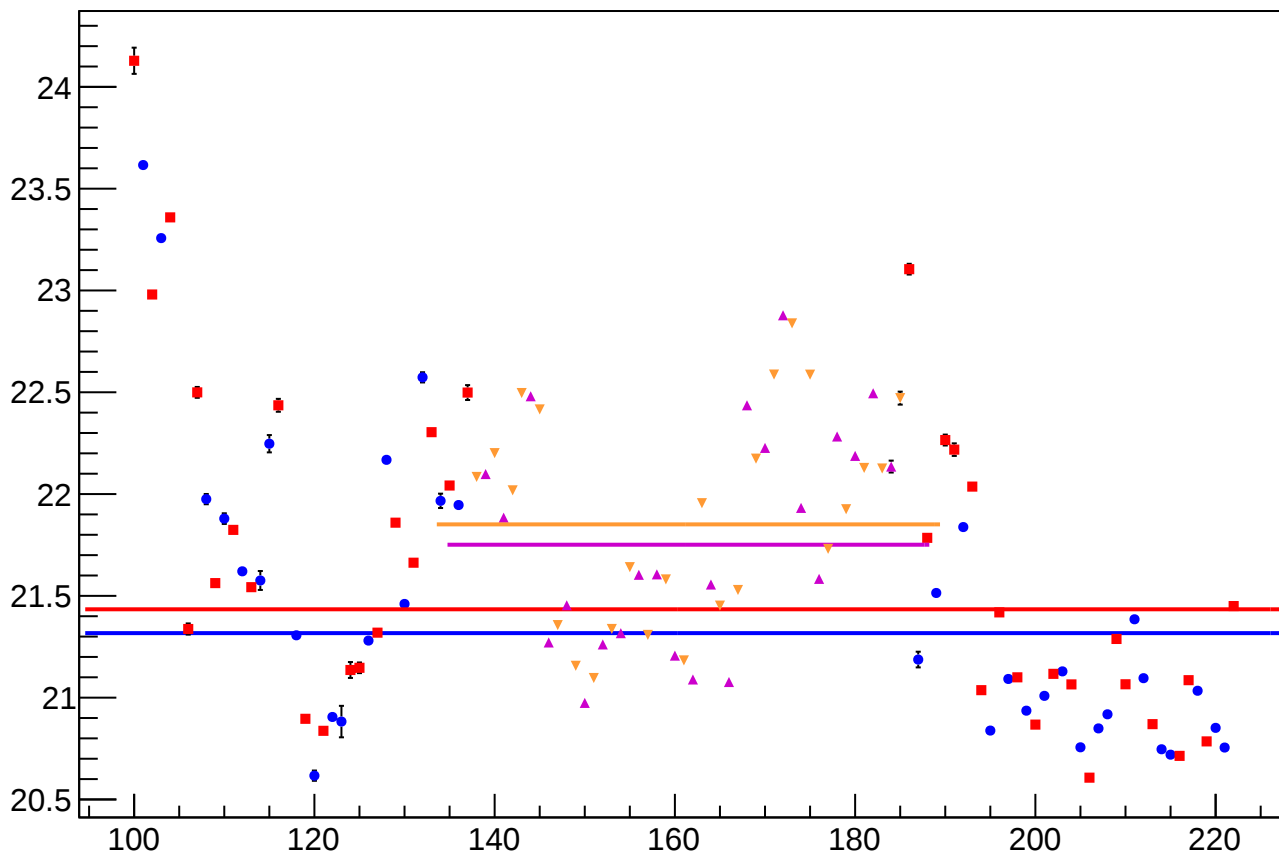
Right: -5.440 ± 3.387 $\chi^2/\text{NDF}: 68.1/72$

In: -1.667 ± 3.548 $\chi^2/\text{NDF}: 49.2/57$

Out: -9.739 ± 3.472 $\chi^2/\text{NDF}: 72.2/62$

All: -5.790 ± 2.482 $\chi^2/\text{NDF}: 124.1/120$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.317 ± 0.003 $\chi^2/\text{NDF}: 37566.0/34$

Left Out: 21.851 ± 0.004 $\chi^2/\text{NDF}: 19631.8/24$

Right Out: 21.434 ± 0.003 $\chi^2/\text{NDF}: 39314.3/37$

Left In: 21.751 ± 0.004 $\chi^2/\text{NDF}: 20516.3/22$

Left: 21.802 ± 0.003 $\chi^2/\text{NDF}: 40523.6/47$

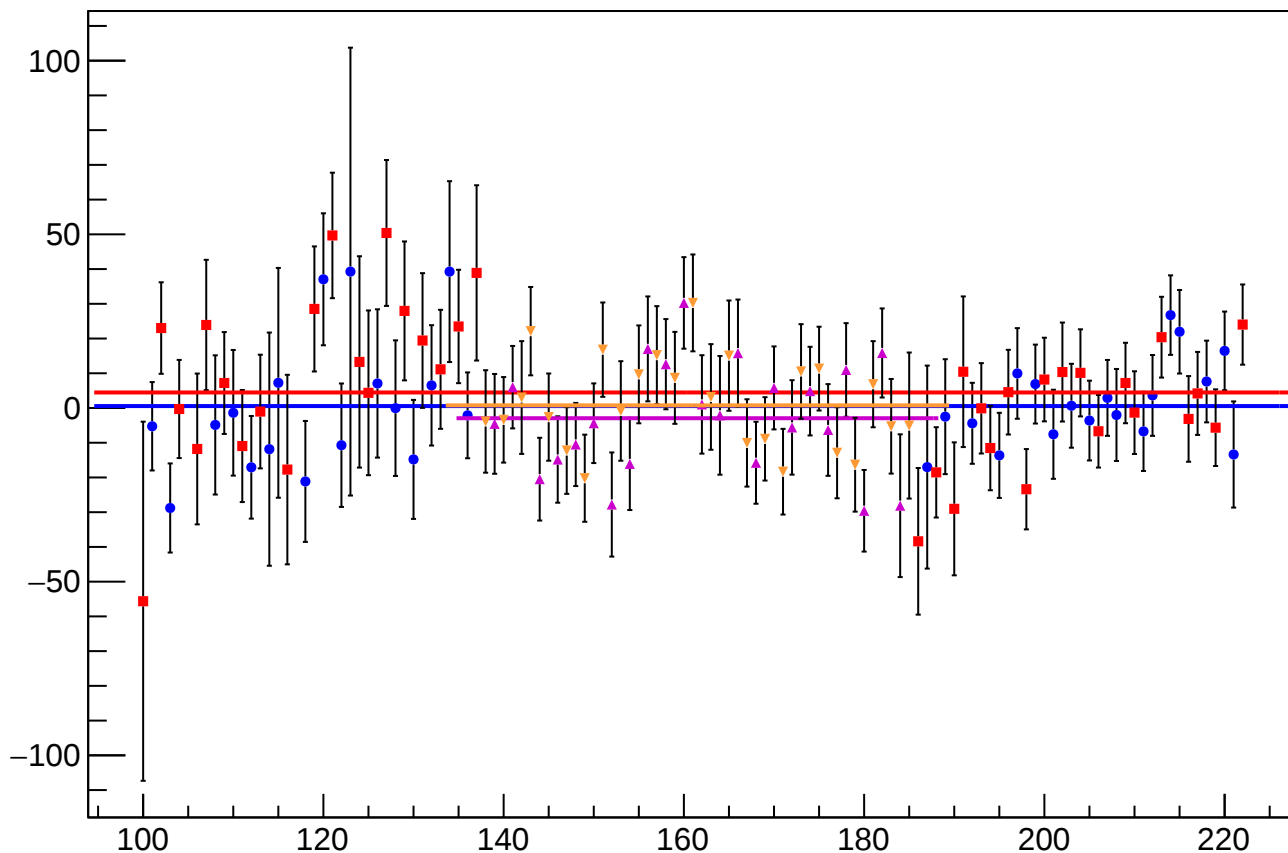
Right: 21.377 ± 0.002 $\chi^2/\text{NDF}: 77477.0/72$

In: 21.517 ± 0.003 $\chi^2/\text{NDF}: 65526.6/57$

Out: 21.628 ± 0.002 $\chi^2/\text{NDF}: 66127.4/62$

All: 21.574 ± 0.002 $\chi^2/\text{NDF}: 132646.3/120$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.553 ± 2.431 $\chi^2/\text{NDF}: 31.8/34$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.470 ± 2.402 $\chi^2/\text{NDF}: 51.0/37$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

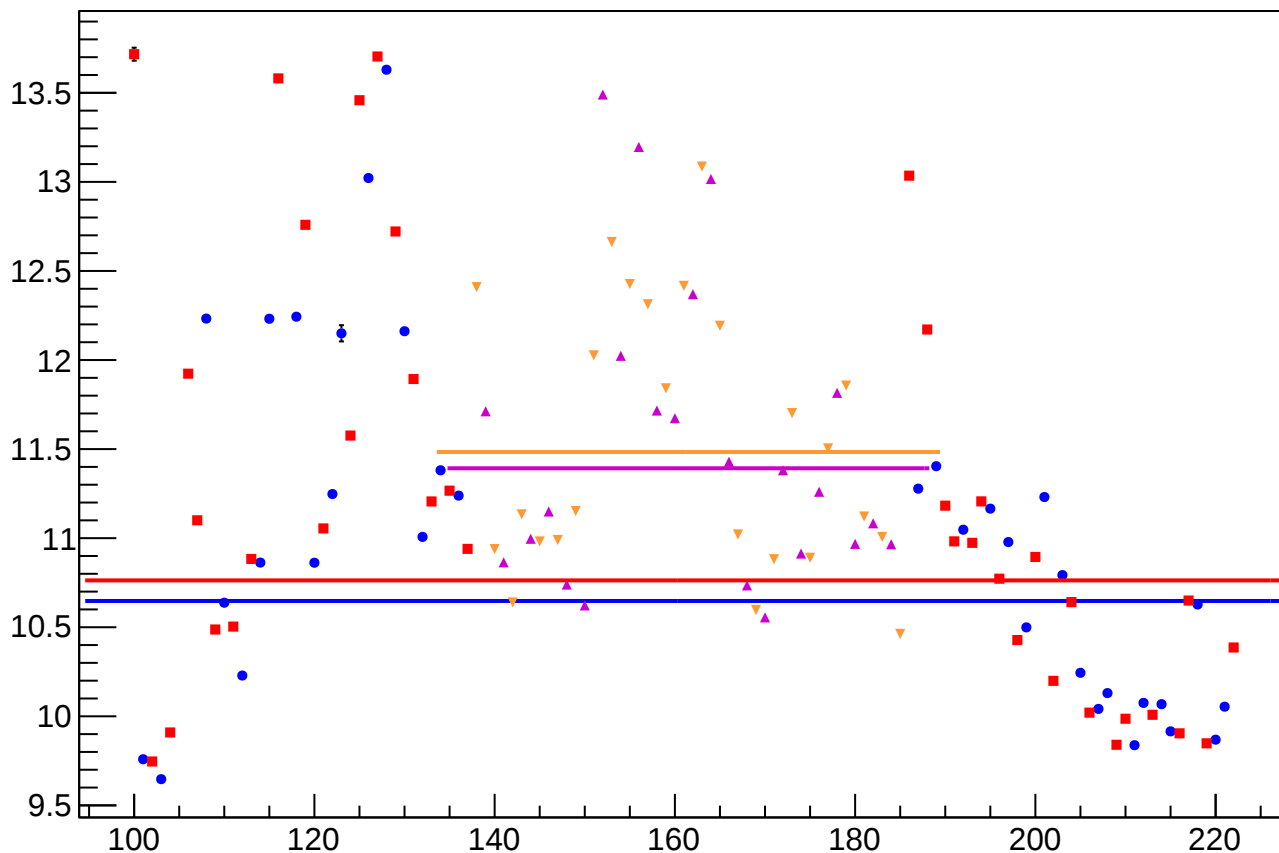
Right: 2.535 ± 1.709 $\chi^2/\text{NDF}: 84.1/72$

In: -0.976 ± 1.823 $\chi^2/\text{NDF}: 63.7/57$

Out: 2.829 ± 1.794 $\chi^2/\text{NDF}: 75.8/62$

All: 0.957 ± 1.279 $\chi^2/\text{NDF}: 141.7/120$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.647 $\pm$ 0.002 χ^2 /NDF: 223918.7/34

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.763 $\pm$ 0.002 χ^2 /NDF: 297355.6/37

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

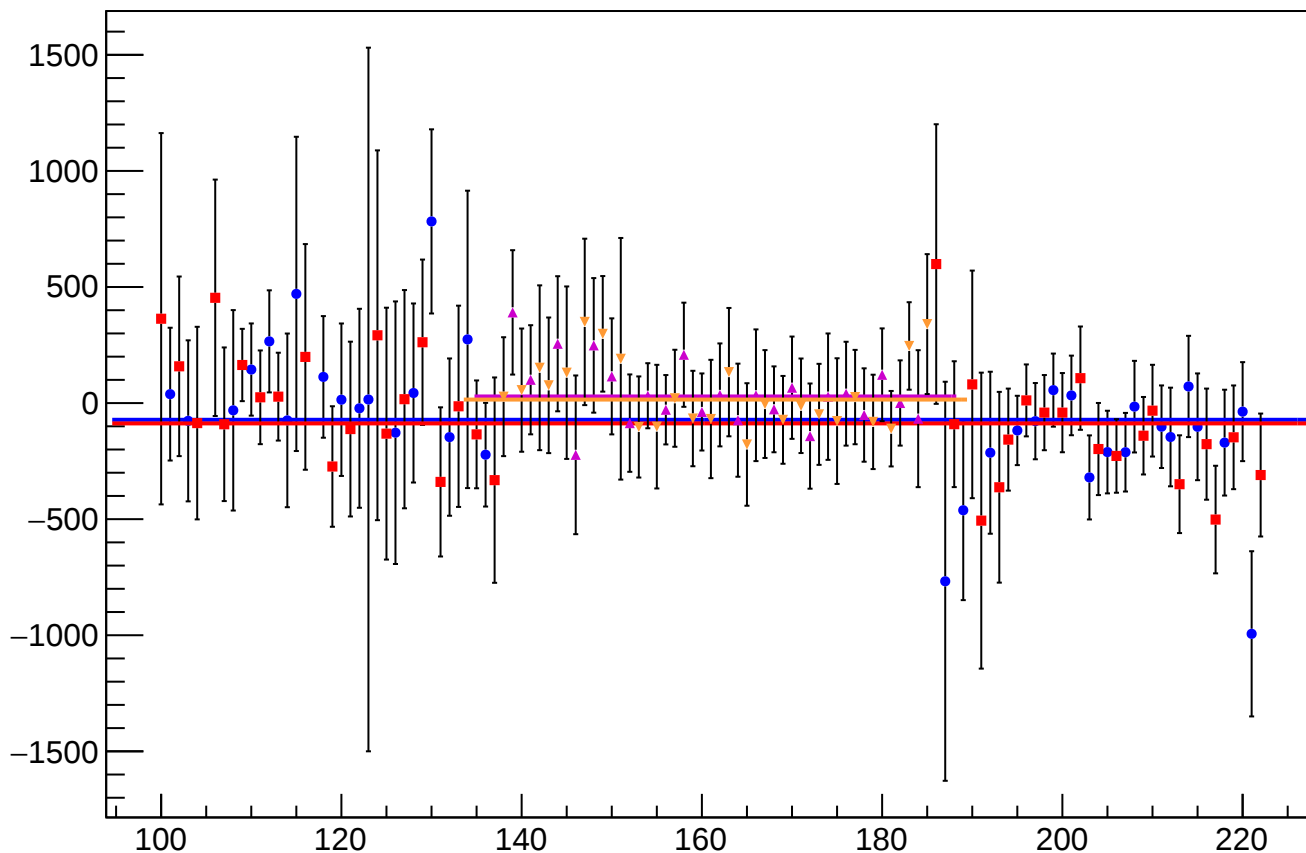
Right: 10.706 $\pm$ 0.001 χ^2 /NDF: 523563.1/72

In: 10.973 $\pm$ 0.001 χ^2 /NDF:456553.2/57

Out: 11.082 $\pm$ 0.001 χ^2 /NDF:506743.9/62

All: 11.028 $\pm$ 0.001 χ^2 /NDF: 966896.1/120

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.935 ± 40.947 χ^2/NDF : 24.2/34

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -87.566 ± 40.601 χ^2/NDF : 18.9/37

Left In: 28.500 ± 44.797 χ^2/NDF : 6.4/22

Left: 22.235 ± 32.656 χ^2/NDF : 14.4/47

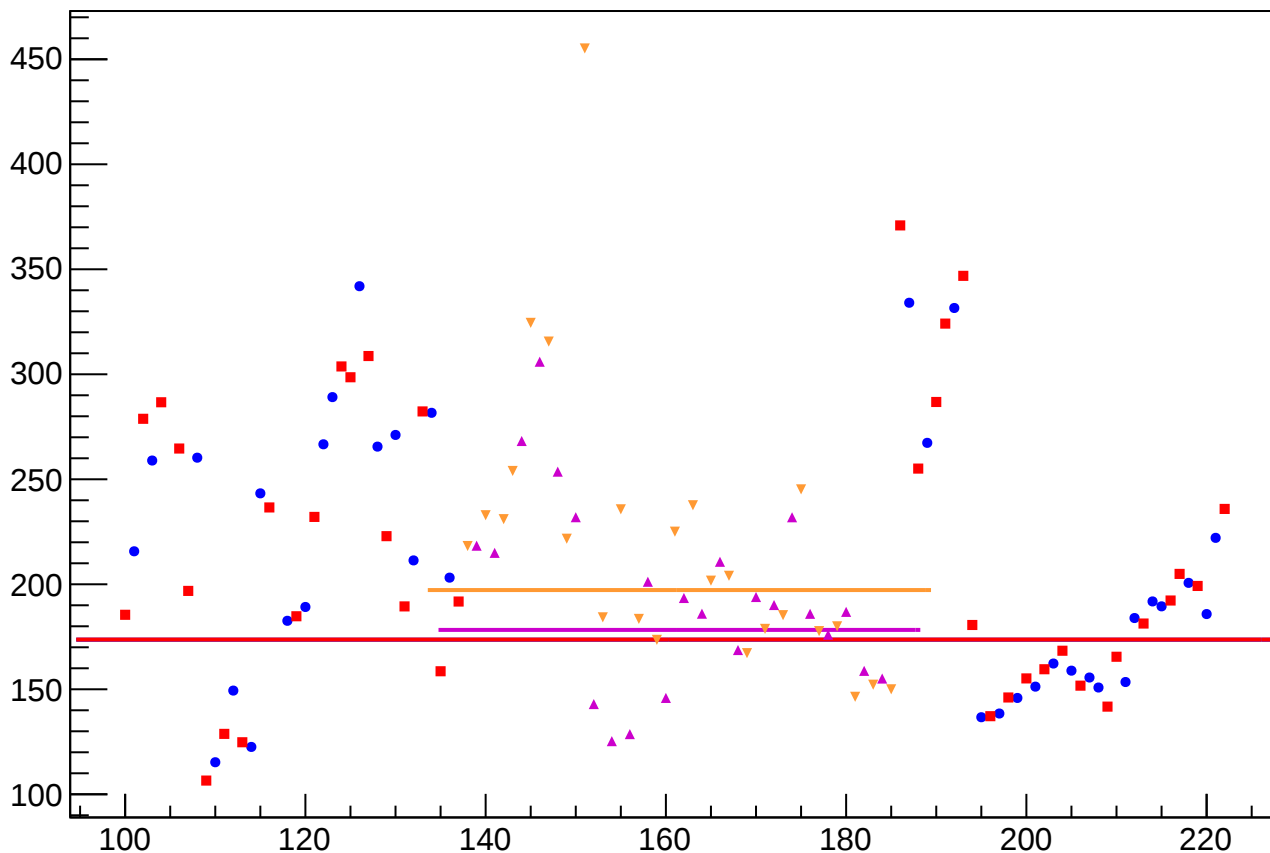
Right: -79.817 ± 28.831 χ^2/NDF : 43.2/72

In: -26.218 ± 30.223 χ^2/NDF : 33.3/57

Out: -44.426 ± 30.919 χ^2/NDF : 29.6/62

All: -35.115 ± 21.613 χ^2/NDF : 63.1/120

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.615 $\pm$ 0.029 χ^2 /NDF: 2245279.1/34

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 173.680 $\pm$ 0.029 χ^2 /NDF: 3039885.9/37

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

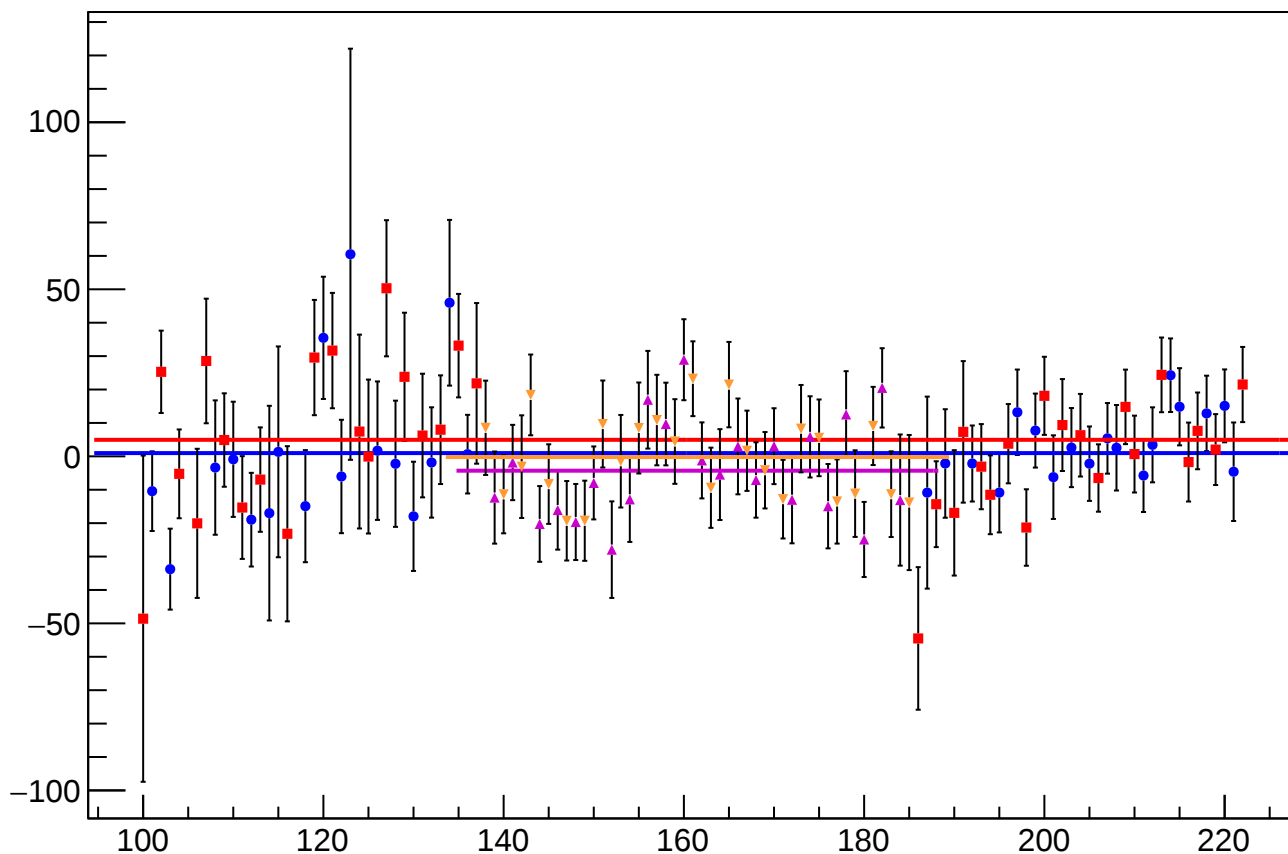
Right: 173.648 $\pm$ 0.020 χ^2 /NDF: 5285167.6/72

In: 175.737 $\pm$ 0.021 χ^2 /NDF:3885995.8/57

Out: 183.581 $\pm$ 0.022 χ^2 /NDF:5109810.3/62

All: 179.570 $\pm$ 0.015 χ^2 /NDF: 9061627.9/120

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.971 ± 2.344 χ^2/NDF : 34.2/34

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 4.945 ± 2.322 χ^2/NDF : 53.3/37

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

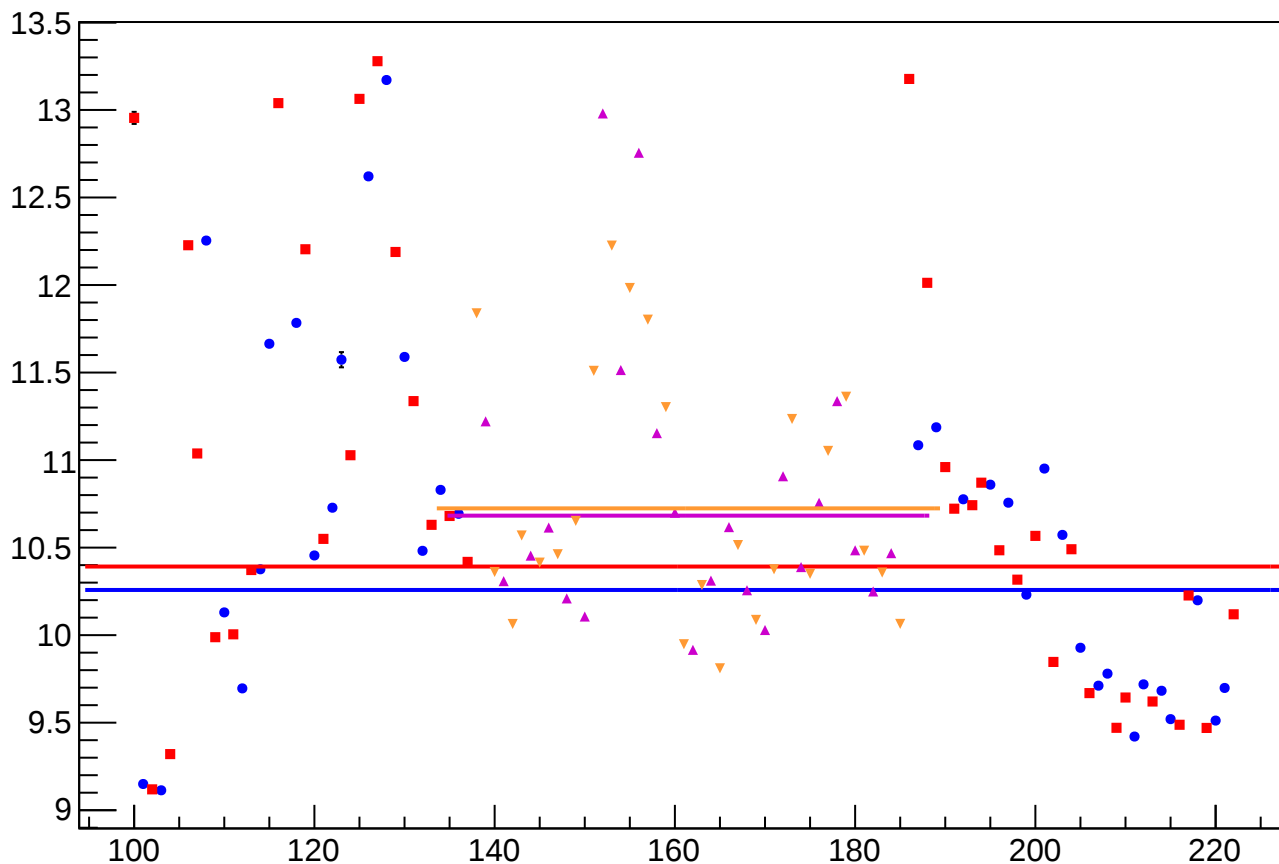
Right: 2.977 ± 1.650 χ^2/NDF : 89.0/72

In: -1.402 ± 1.738 χ^2/NDF : 68.1/57

Out: 2.581 ± 1.709 χ^2/NDF : 80.1/62

All: 0.623 ± 1.218 χ^2/NDF : 150.9/120

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.258 $\pm$ 0.002 χ^2 /NDF: 252566.9/34

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.392 $\pm$ 0.002 χ^2 /NDF: 340421.7/37

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

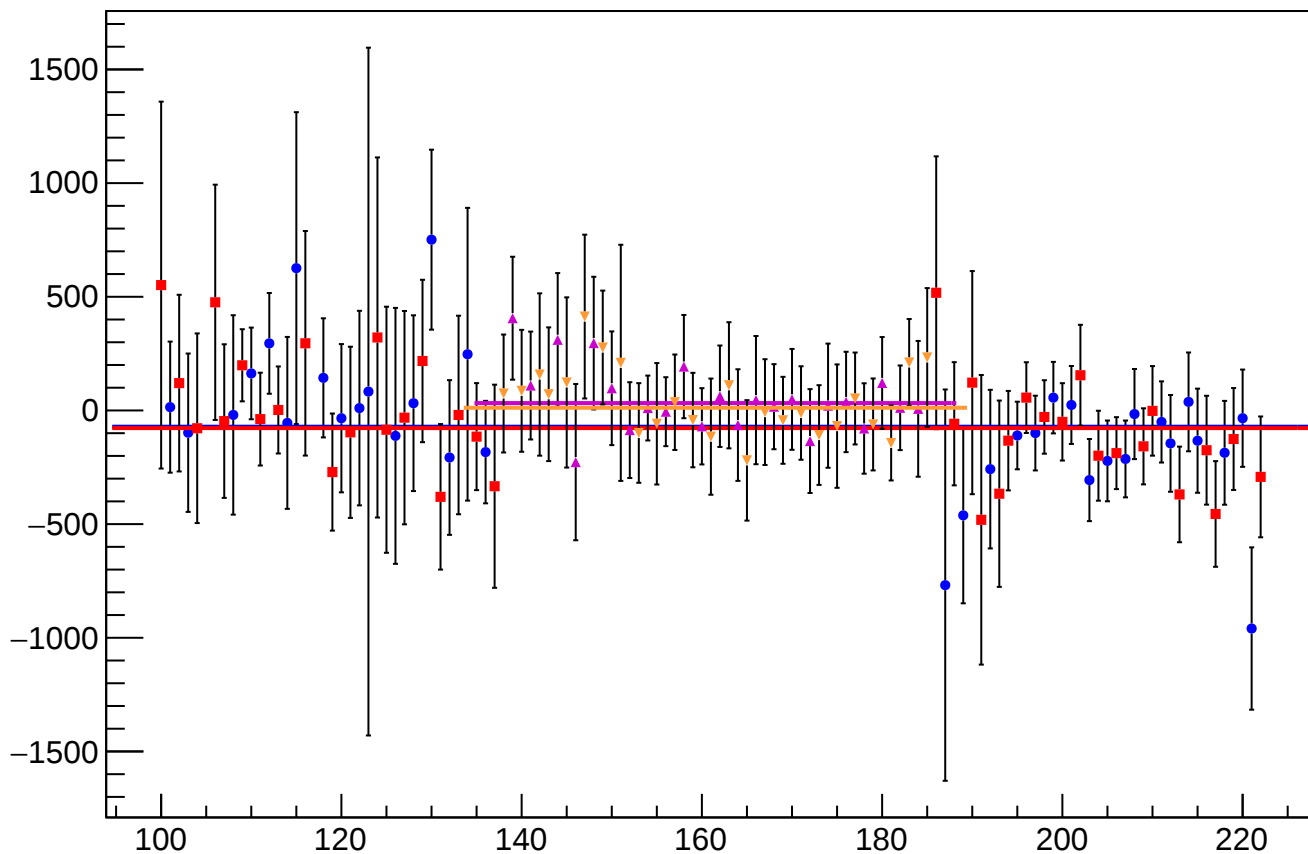
Right: 10.326 $\pm$ 0.001 χ^2 /NDF: 596278.1/72

In: 10.449 $\pm$ 0.001 χ^2 /NDF:429953.7/57

Out: 10.544 $\pm$ 0.001 χ^2 /NDF:491758.2/62

All: 10.498 $\pm$ 0.001 χ^2 /NDF: 924746.8/120

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.510 ± 41.009 $\chi^2/\text{NDF}: 24.1/34$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -77.644 ± 40.721 $\chi^2/\text{NDF}: 19.4/37$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

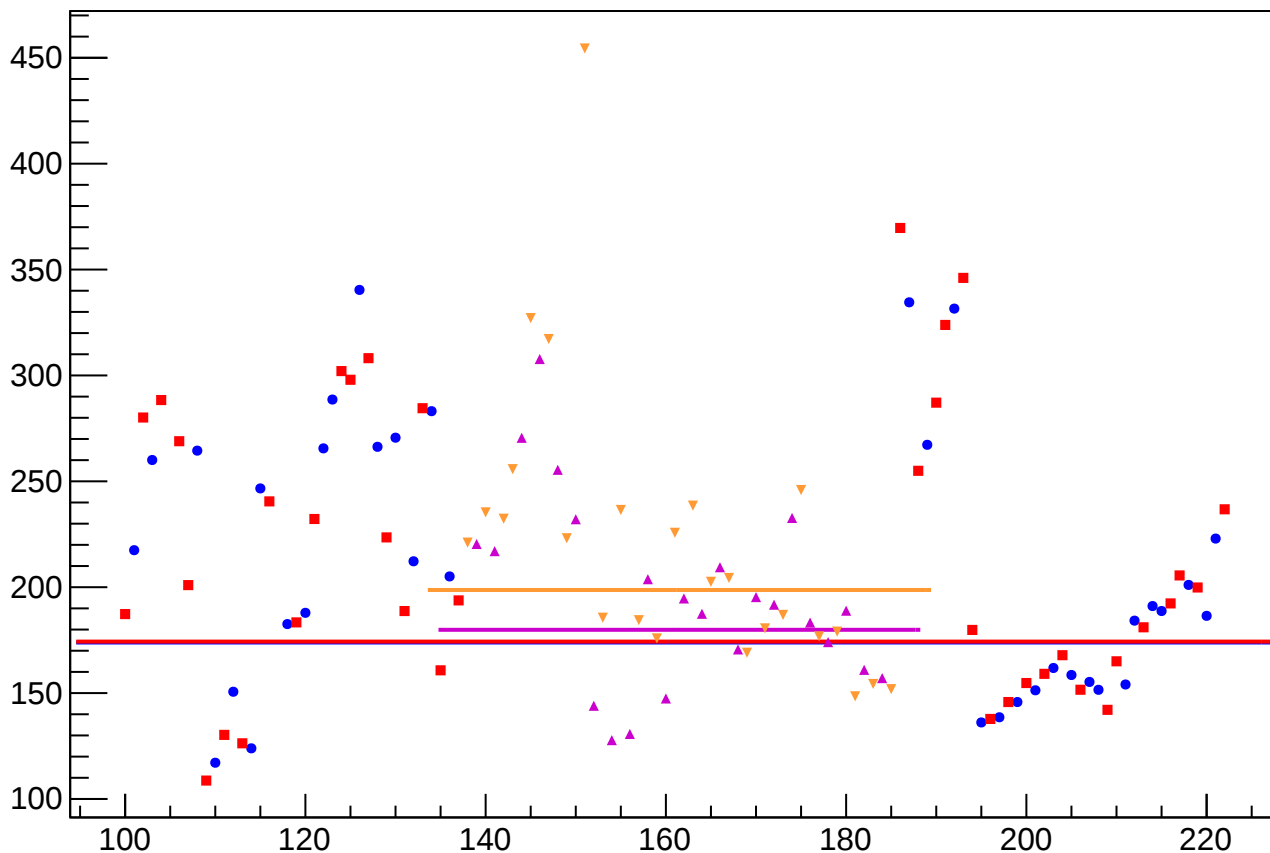
Right: -74.598 ± 28.895 $\chi^2/\text{NDF}: 43.5/72$

In: -24.537 ± 30.358 $\chi^2/\text{NDF}: 33.9/57$

Out: -40.194 ± 31.058 $\chi^2/\text{NDF}: 29.0/62$

All: -32.187 ± 21.710 $\chi^2/\text{NDF}: 63.1/120$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.888 $\pm$ 0.029 χ^2 /NDF: 2241681.6/34

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 174.313 $\pm$ 0.029 χ^2 /NDF: 2997849.0/37

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

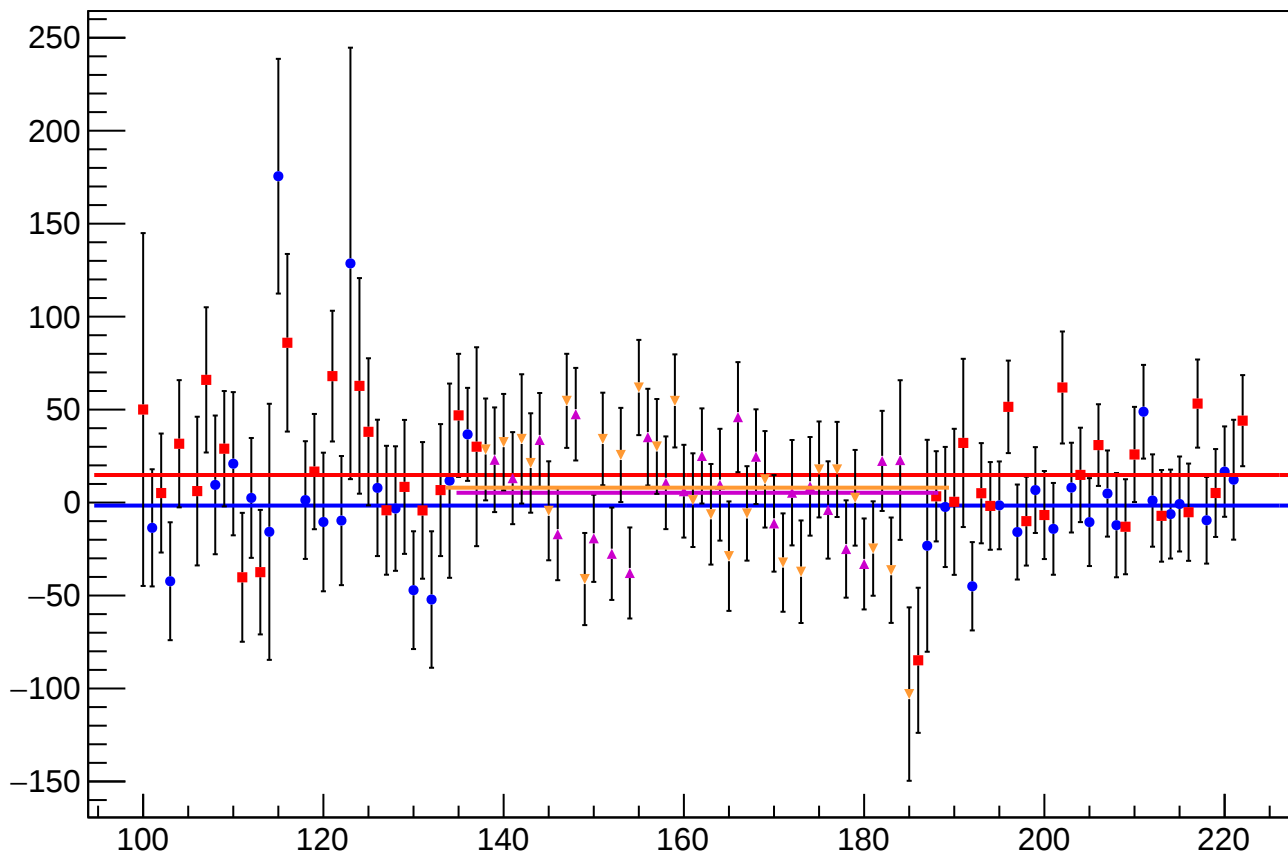
Right: 174.102 $\pm$ 0.020 χ^2 /NDF: 5239638.4/72

In: 176.599 $\pm$ 0.021 χ^2 /NDF:3841656.4/57

Out: 184.511 $\pm$ 0.022 χ^2 /NDF:5057085.6/62

All: 180.465 $\pm$ 0.015 χ^2 /NDF: 8965114.7/120

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.618 ± 4.983 χ^2/NDF : 27.6/34

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 14.821 ± 4.906 χ^2/NDF : 36.3/37

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

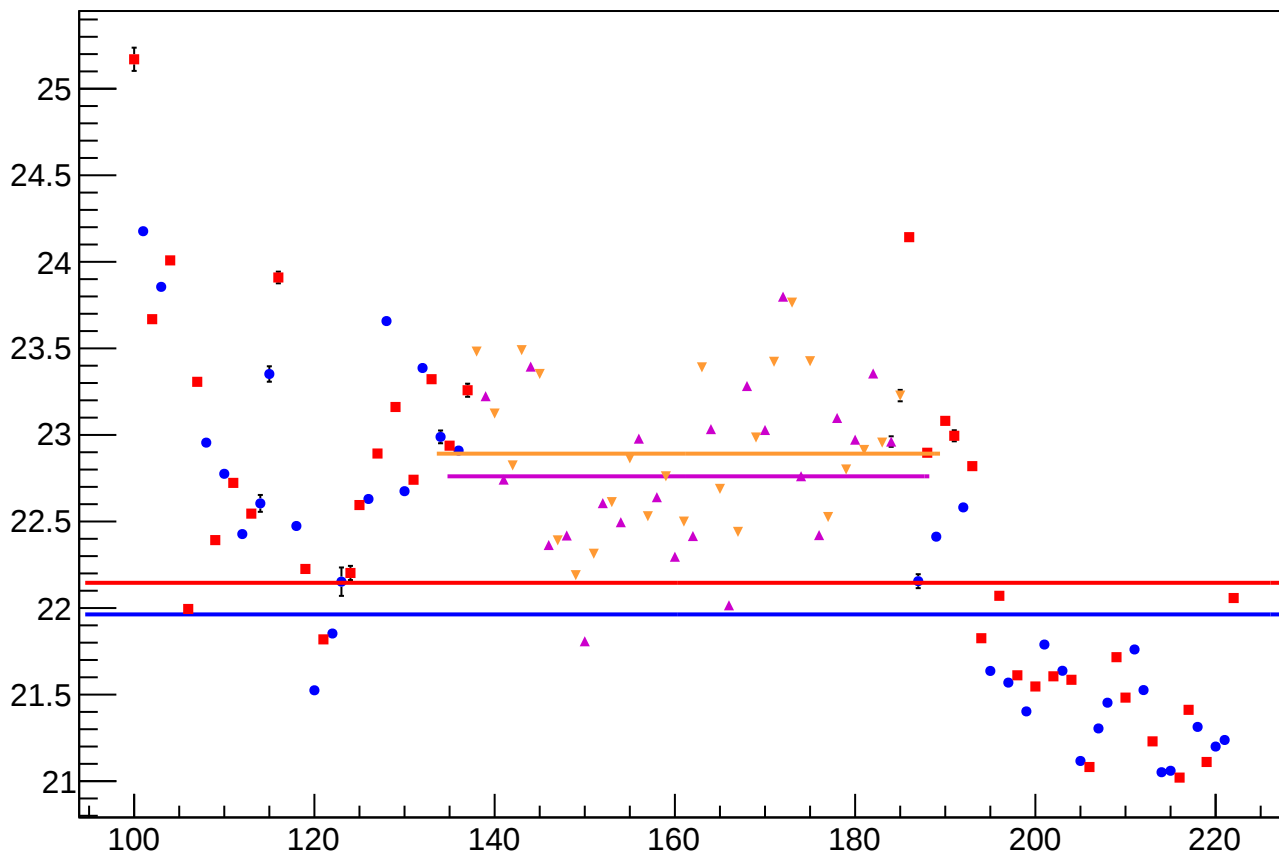
Right: 6.730 ± 3.496 χ^2/NDF : 69.4/72

In: 1.505 ± 3.682 χ^2/NDF : 49.2/57

Out: 11.697 ± 3.611 χ^2/NDF : 74.6/62

All: 6.701 ± 2.578 χ^2/NDF : 127.7/120

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.963+/-0.004 χ^2/NDF : 54916.7/34

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.146+/-0.003 χ^2/NDF : 59038.3/37

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

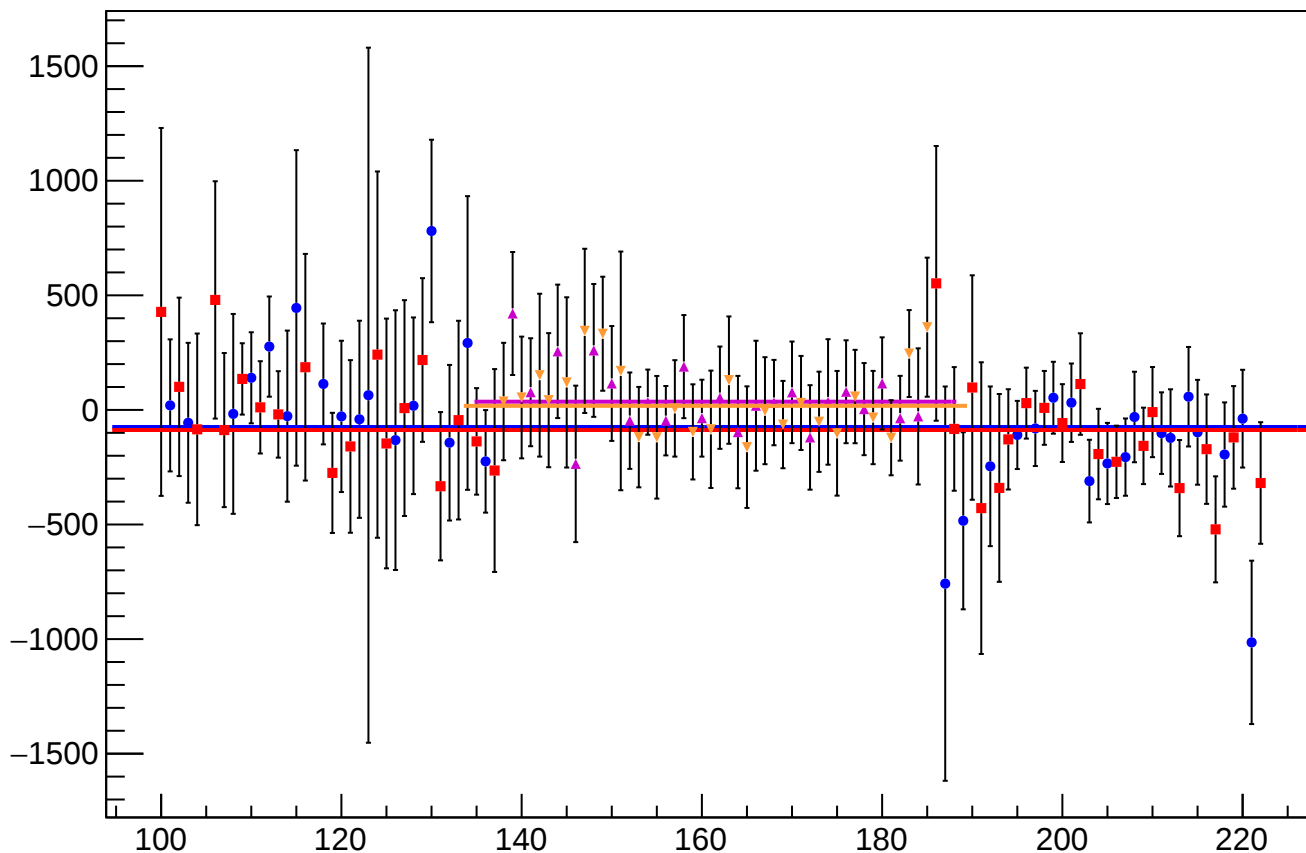
Right: 22.056+/-0.002 χ^2/NDF : 115318.3/72

In: 22.325+/-0.003 χ^2/NDF :92734.3/57

Out: 22.488+/-0.003 χ^2/NDF :93232.5/62

All: 22.408+/-0.002 χ^2/NDF : 187948.2/120

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -74.614 $\pm$ 40.894 χ^2 /NDF: 24.5/34

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -87.637 $\pm$ 40.556 χ^2 /NDF: 17.9/37

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

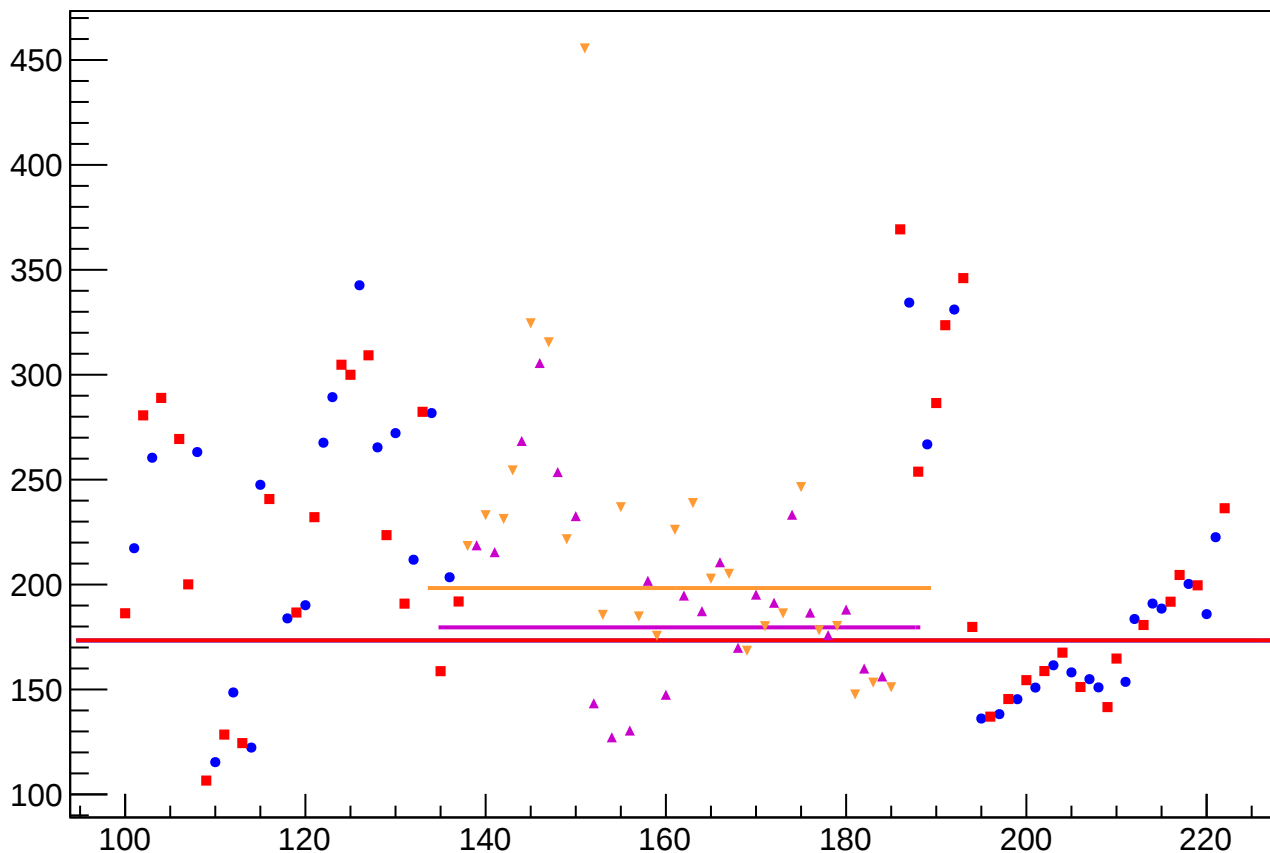
Right: -81.179 $\pm$ 28.796 χ^2 /NDF: 42.4/72

In: -24.744 $\pm$ 30.291 χ^2 /NDF:34.1/57

Out: -43.666 $\pm$ 30.963 χ^2 /NDF:29.3/62

All: -33.997 $\pm$ 21.653 χ^2 /NDF: 63.5/120

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.335+/-0.029 χ^2/NDF : 2273006.9/34

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 173.433+/-0.029 χ^2/NDF : 3070482.3/37

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

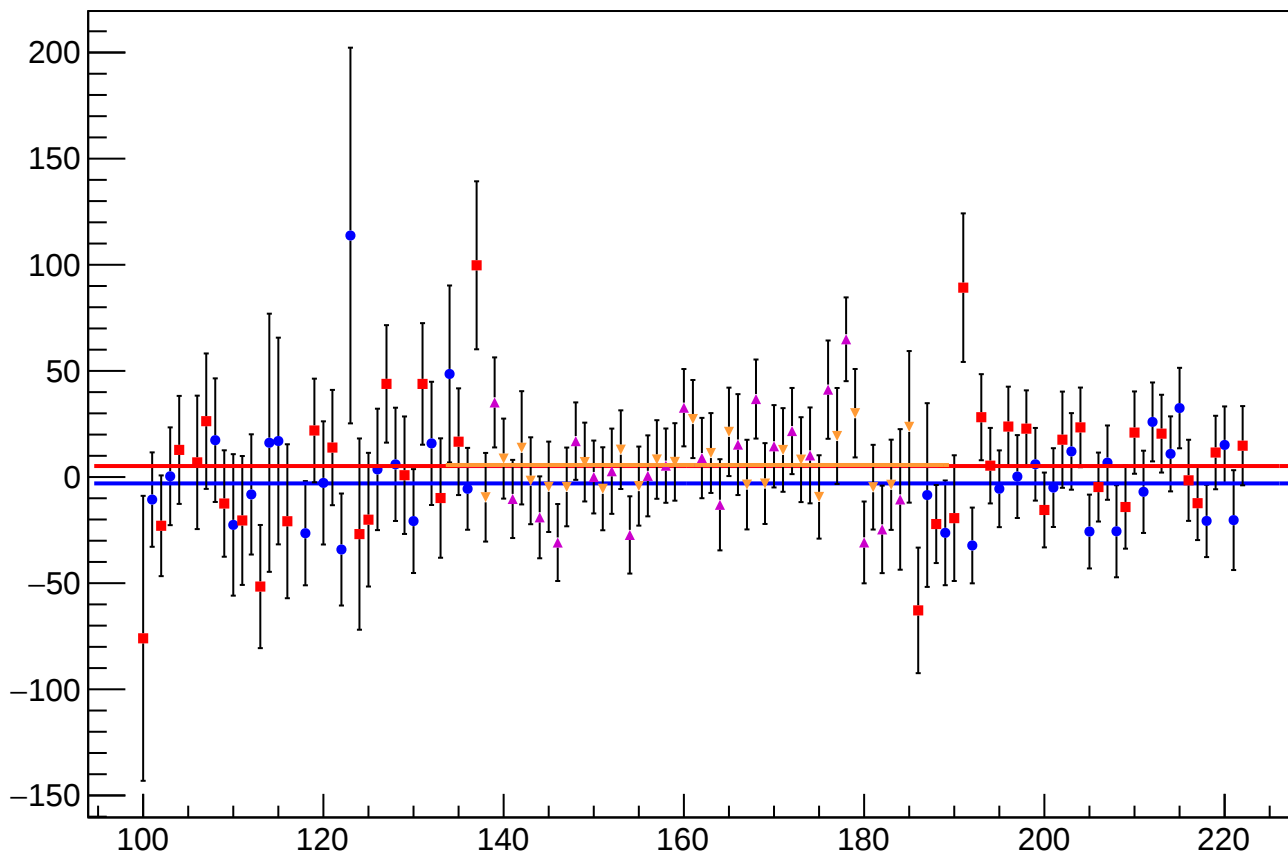
Right: 173.384+/-0.020 χ^2/NDF : 5343495.0/72

In: 176.165+/-0.021 χ^2/NDF : 3869972.1/57

Out: 183.824+/-0.022 χ^2/NDF : 5142682.1/62

All: 179.910+/-0.015 χ^2/NDF : 9075181.9/120

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.000 ± 3.780 $\chi^2/\text{NDF}: 24.9/34$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 5.182 ± 3.730 $\chi^2/\text{NDF}: 44.7/37$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

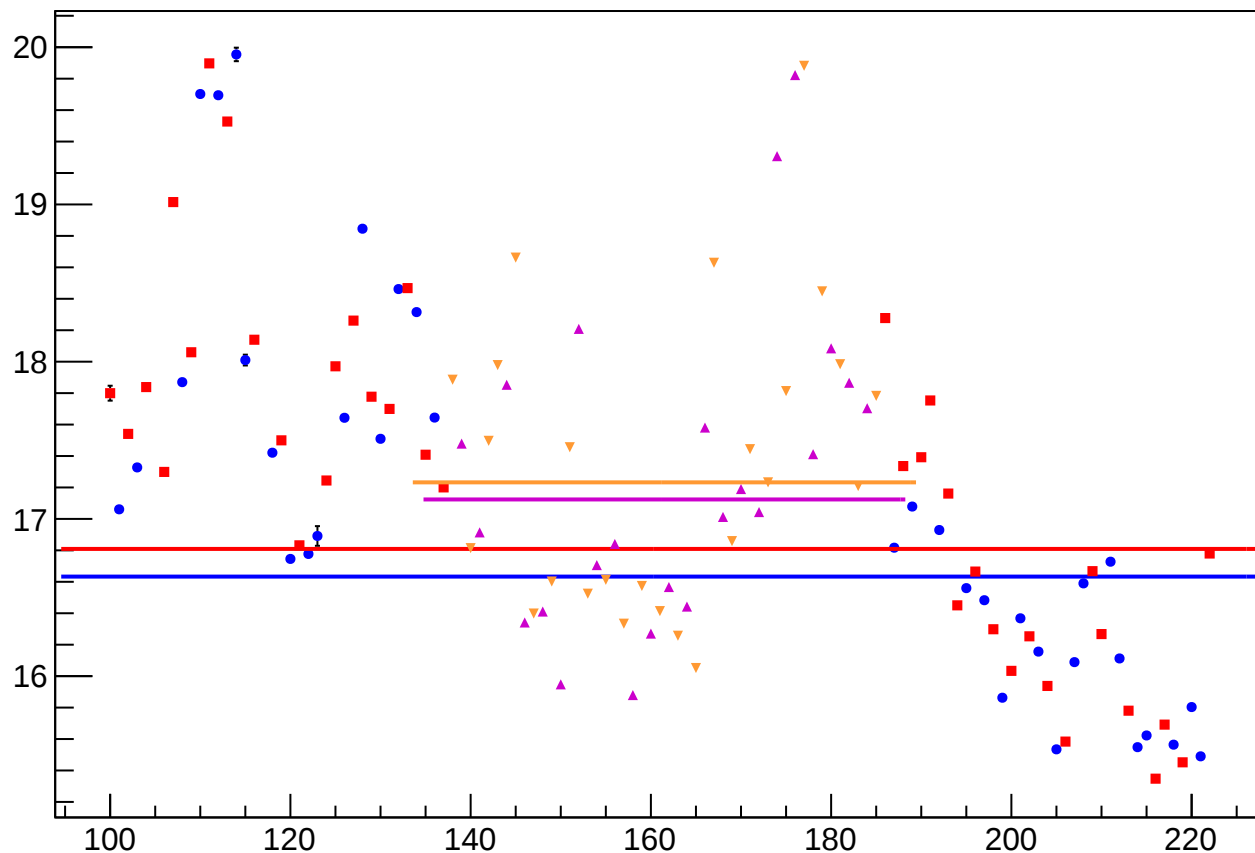
Right: 1.144 ± 2.655 $\chi^2/\text{NDF}: 72.0/72$

In: 0.926 ± 2.786 $\chi^2/\text{NDF}: 63.7/57$

Out: 5.412 ± 2.736 $\chi^2/\text{NDF}: 52.5/62$

All: 3.210 ± 1.952 $\chi^2/\text{NDF}: 117.4/120$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.633 $\pm$ 0.003 χ^2/NDF : 140541.2/34

Left Out: 17.232 $\pm$ 0.003 χ^2/NDF : 98701.0/24

Right Out: 16.809 $\pm$ 0.003 χ^2/NDF : 157212.7/37

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

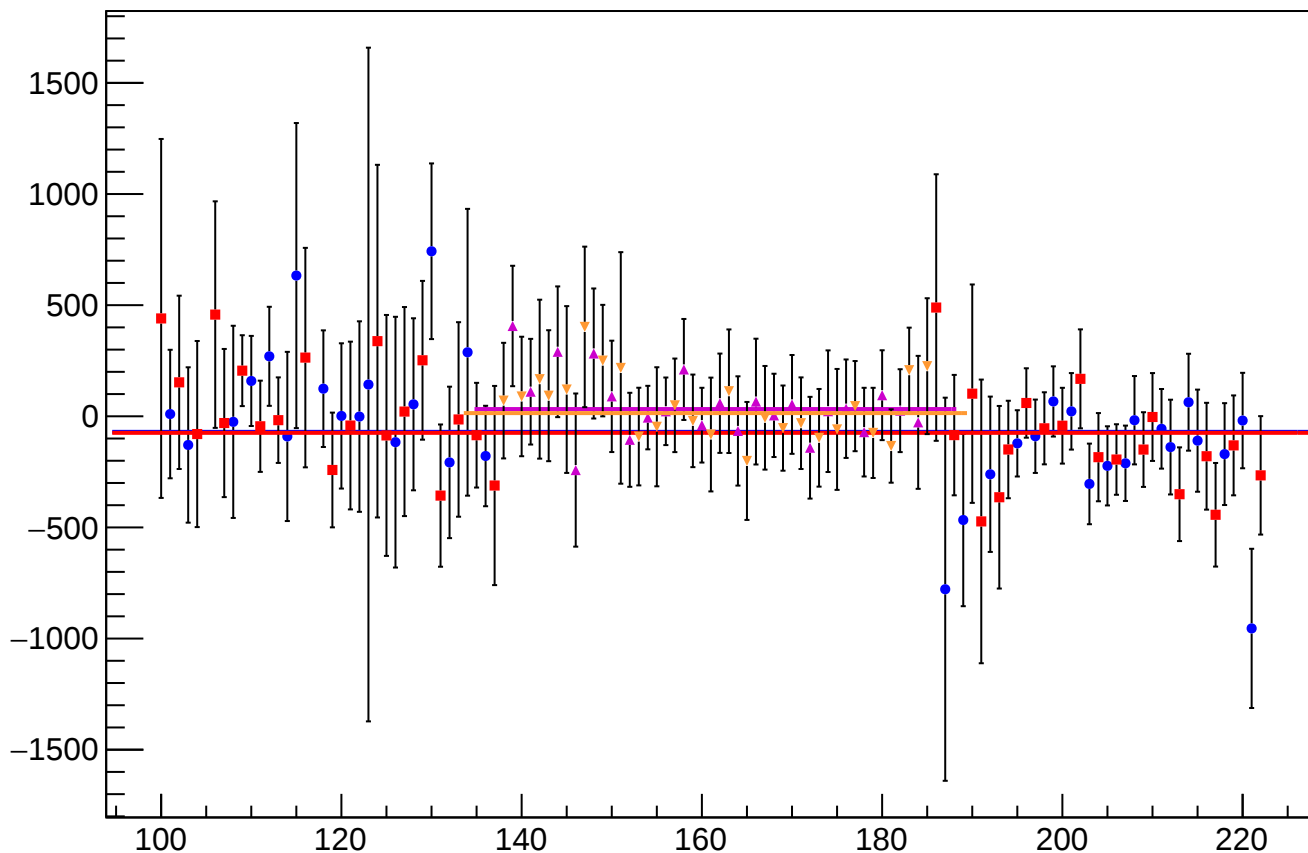
Right: 16.722 $\pm$ 0.002 χ^2/NDF : 299950.3/72

In: 16.857 $\pm$ 0.002 χ^2/NDF : 256682.2/57

Out: 17.005 $\pm$ 0.002 χ^2/NDF : 267819.6/62

All: 16.932 $\pm$ 0.001 χ^2/NDF : 527358.7/120

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -70.004 ± 41.133 $\chi^2/\text{NDF}: 23.7/34$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -74.400 ± 40.830 $\chi^2/\text{NDF}: 18.4/37$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

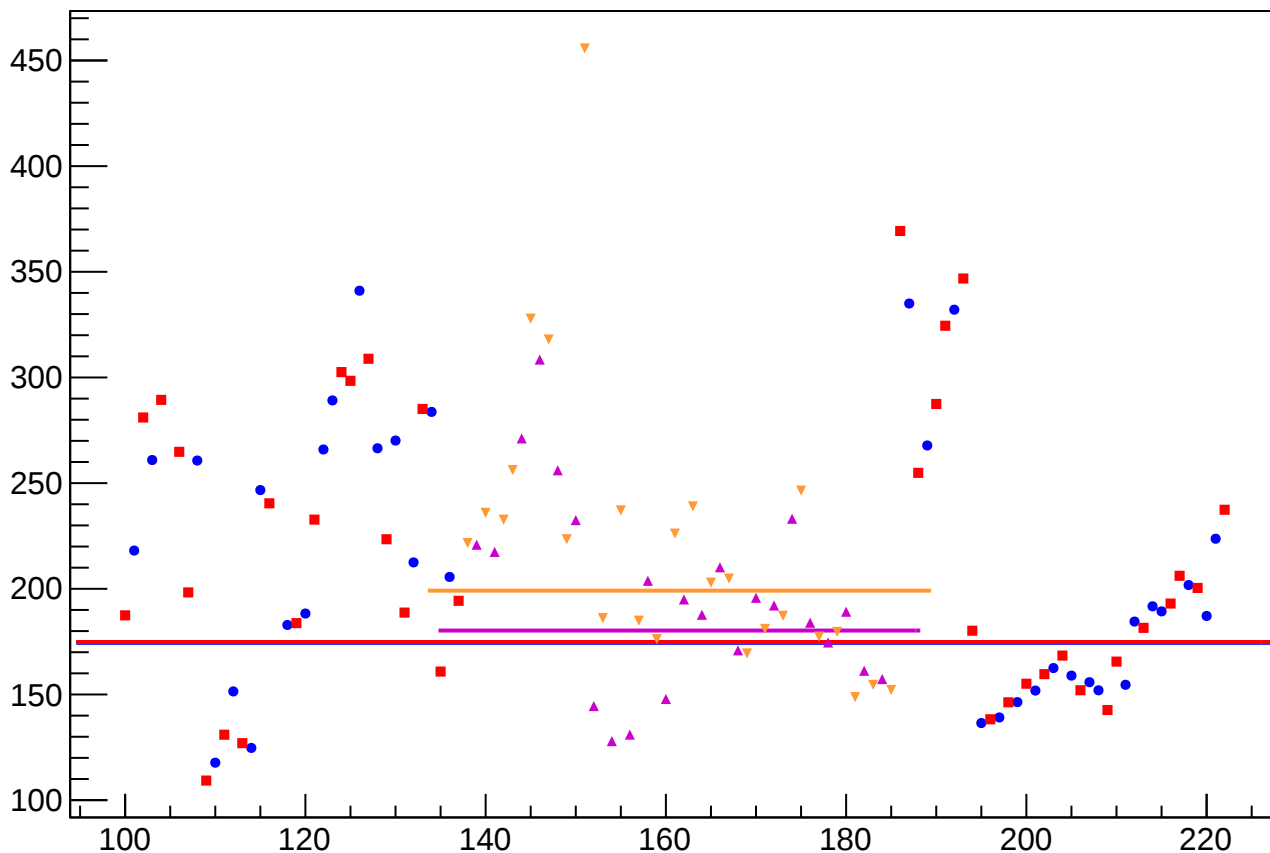
Right: -72.218 ± 28.977 $\chi^2/\text{NDF}: 42.0/72$

In: -23.592 ± 30.436 $\chi^2/\text{NDF}: 33.2/57$

Out: -37.254 ± 31.135 $\chi^2/\text{NDF}: 27.3/62$

All: -30.268 ± 21.765 $\chi^2/\text{NDF}: 60.6/120$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.457+/-0.029 χ^2/NDF : 2223523.3/34

Left Out: 199.136+/-0.034 χ^2/NDF : 1760298.1/24

Right Out: 174.836+/-0.029 χ^2/NDF : 2972936.1/37

Left In: 180.256+/-0.032 χ^2/NDF : 1580553.5/22

Left: 189.114+/-0.023 χ^2/NDF : 3504211.1/47

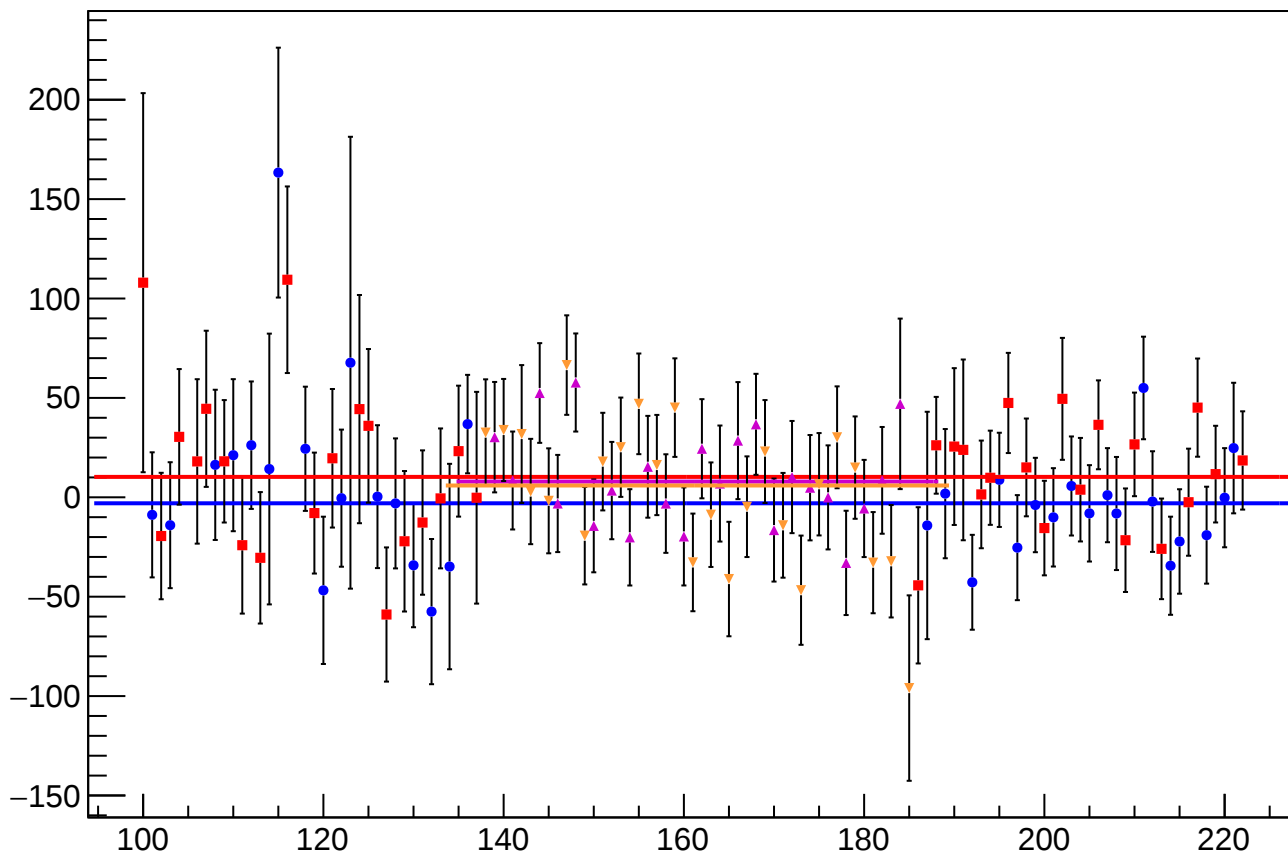
Right: 174.648+/-0.020 χ^2/NDF : 5196544.9/72

In: 177.081+/-0.022 χ^2/NDF : 3822066.7/57

Out: 185.005+/-0.022 χ^2/NDF : 5029702.1/62

All: 180.953+/-0.015 χ^2/NDF : 8918012.2/120

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.011 ± 5.043 χ^2/NDF : 30.0/34

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 10.266 ± 4.948 χ^2/NDF : 32.5/37

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

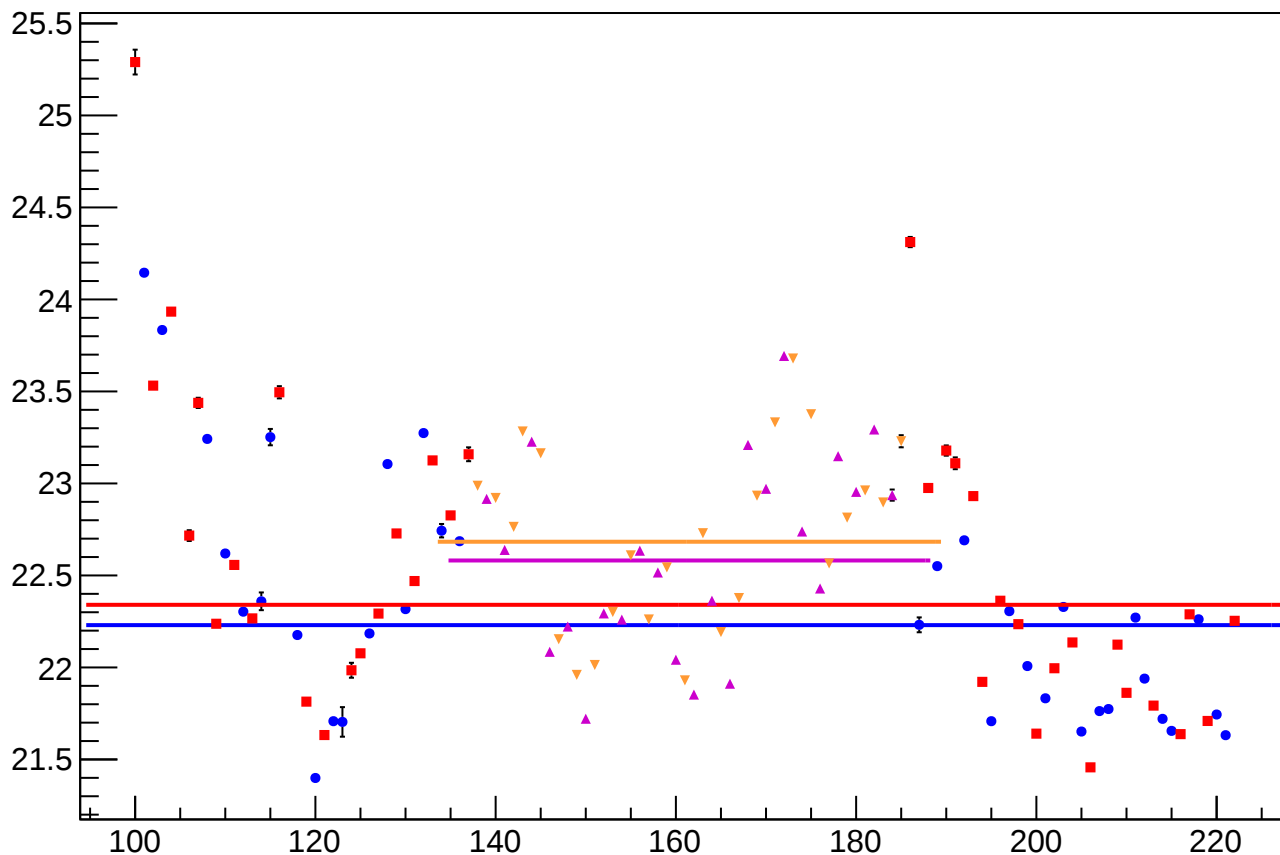
Right: 3.753 ± 3.532 χ^2/NDF : 66.0/72

In: 2.057 ± 3.692 χ^2/NDF : 50.8/57

Out: 8.244 ± 3.612 χ^2/NDF : 69.0/62

All: 5.219 ± 2.582 χ^2/NDF : 121.3/120

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.230+/-0.004 χ^2/NDF : 28784.6/34

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.340+/-0.003 χ^2/NDF : 35104.5/37

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

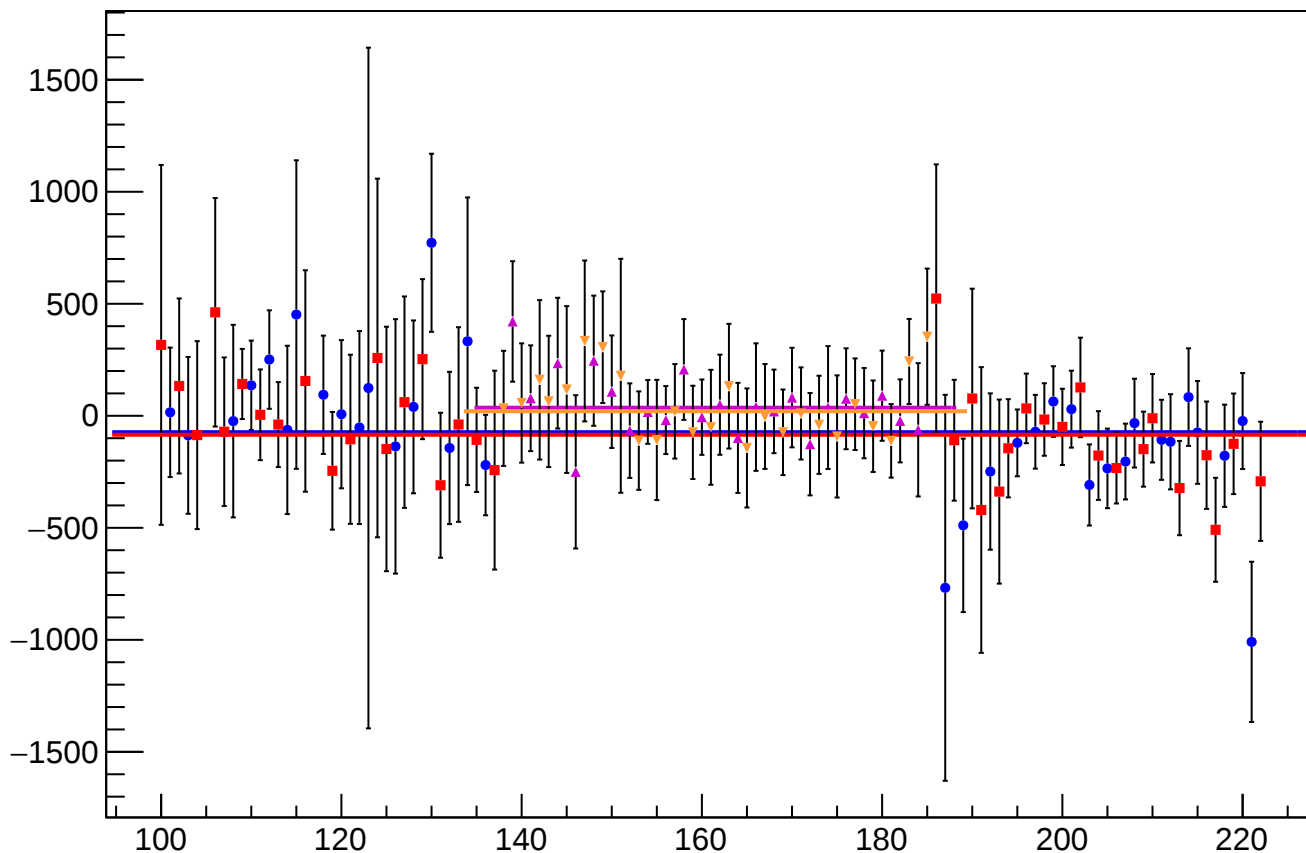
Right: 22.286+/-0.002 χ^2/NDF : 64377.4/72

In: 22.393+/-0.003 χ^2/NDF : 51192.1/57

Out: 22.501+/-0.003 χ^2/NDF : 55909.3/62

All: 22.448+/-0.002 χ^2/NDF : 107968.7/120

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -73.176 ± 41.019 χ^2/NDF : 24.1/34

Left Out: 20.306 ± 48.049 χ^2/NDF : 7.7/24

Right Out: -84.437 ± 40.666 χ^2/NDF : 16.9/37

Left In: 35.996 ± 45.180 χ^2/NDF : 6.1/22

Left: 28.633 ± 32.915 χ^2/NDF : 13.8/47

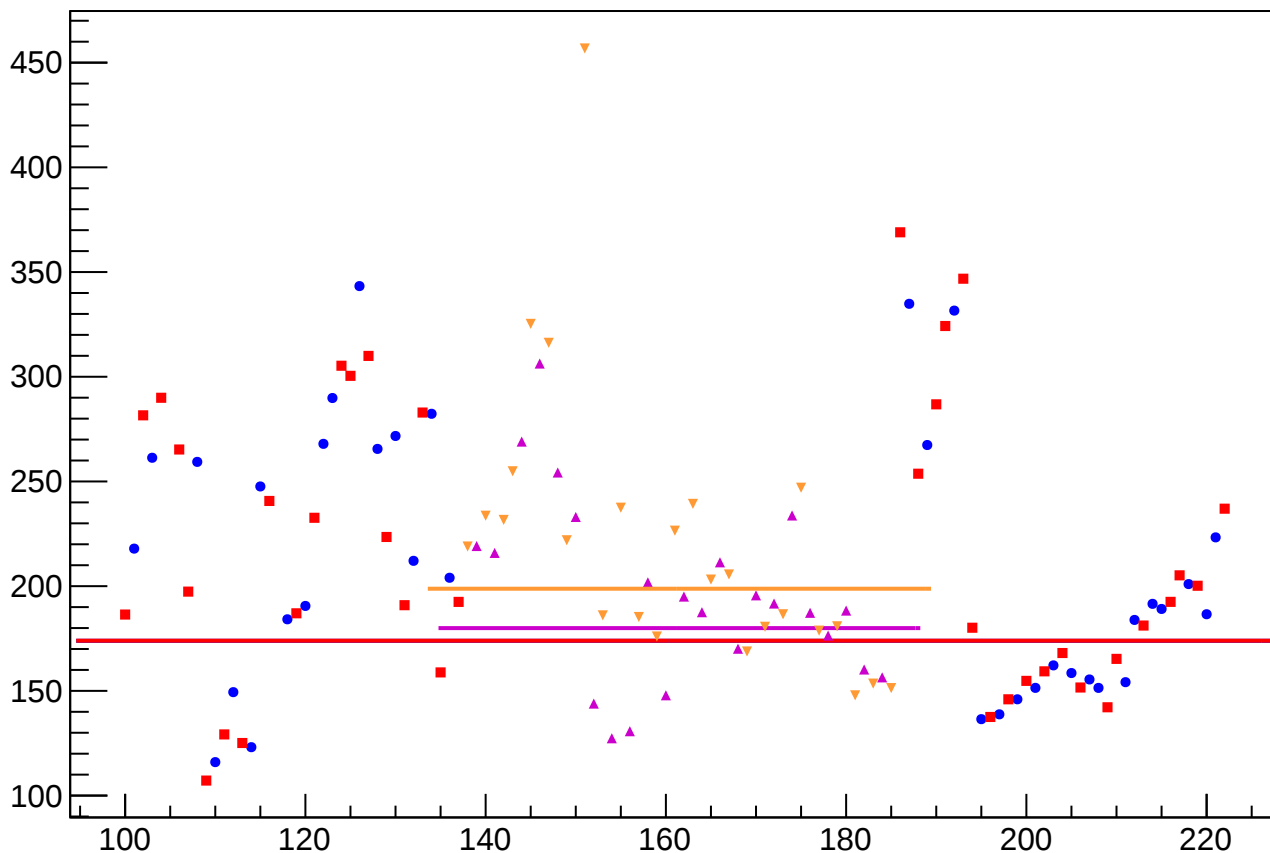
Right: -78.855 ± 28.879 χ^2/NDF : 41.0/72

In: -23.848 ± 30.369 χ^2/NDF : 33.3/57

Out: -40.722 ± 31.041 χ^2/NDF : 27.3/62

All: -32.101 ± 21.708 χ^2/NDF : 60.8/120

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.908 $\pm$ 0.029 χ^2 /NDF: 2254238.5/34

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 173.962 $\pm$ 0.029 χ^2 /NDF: 3044587.9/37

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

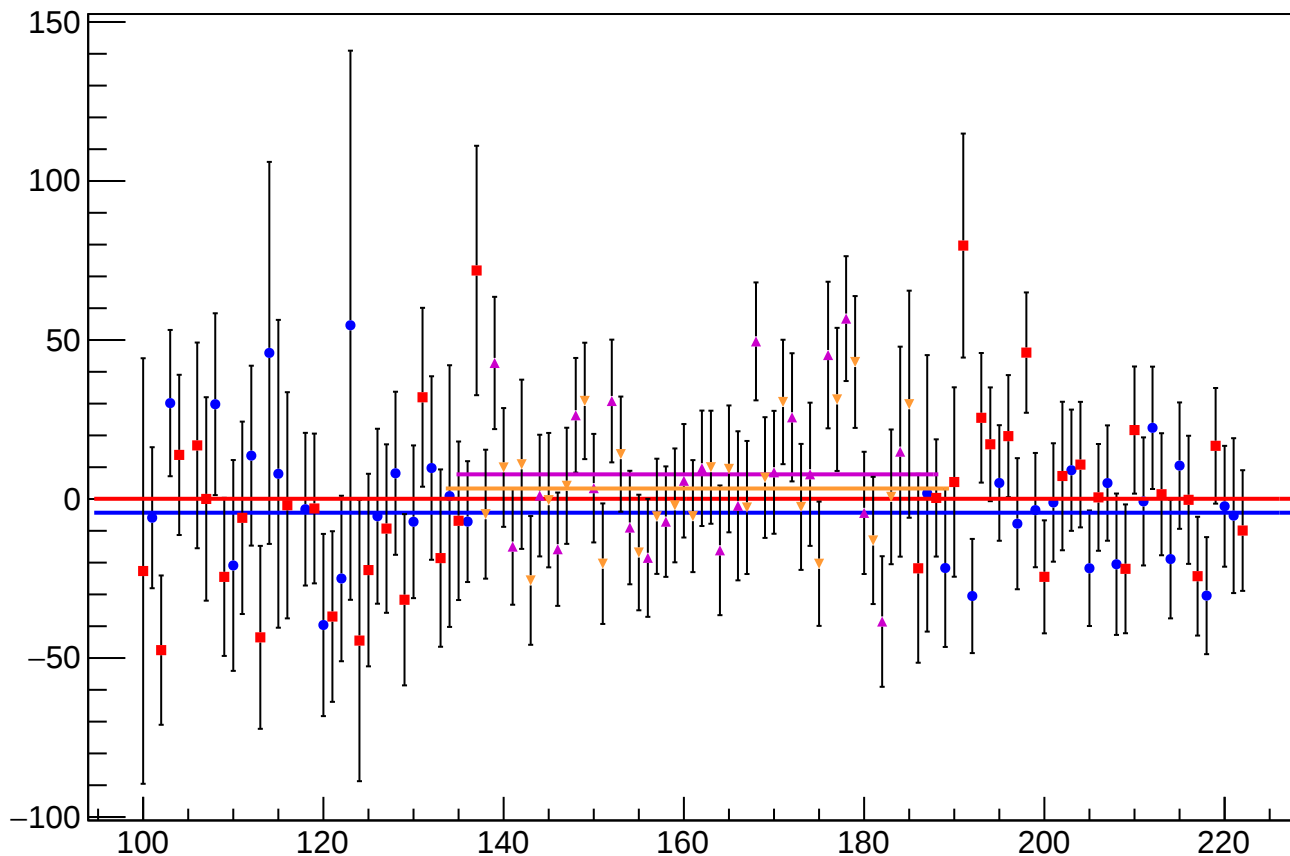
Right: 173.935 $\pm$ 0.020 χ^2 /NDF: 5298828.1/72

In: 176.648 $\pm$ 0.021 χ^2 /NDF:3849879.4/57

Out: 184.321 $\pm$ 0.022 χ^2 /NDF:5114074.8/62

All: 180.401 $\pm$ 0.015 χ^2 /NDF: 9026399.5/120

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.309 ± 3.859 χ^2/NDF : 18.6/34

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 0.073 ± 3.790 χ^2/NDF : 40.9/37

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

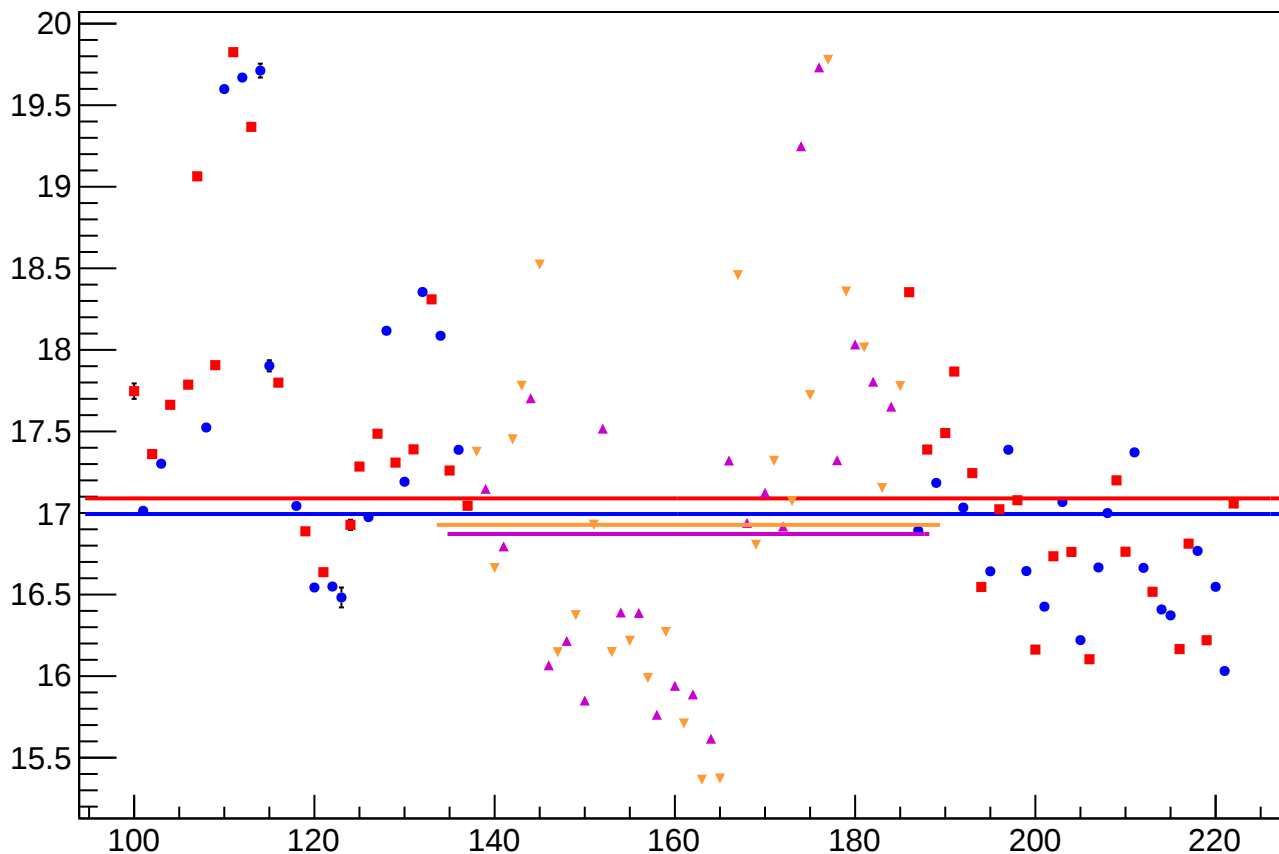
Right: -2.078 ± 2.704 χ^2/NDF : 60.1/72

In: 1.416 ± 2.797 χ^2/NDF : 57.5/57

Out: 1.622 ± 2.736 χ^2/NDF : 59.9/62

All: 1.521 ± 1.956 χ^2/NDF : 117.4/120

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.994 $\pm$ 0.003 χ^2 /NDF: 66236.1/34

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.090 $\pm$ 0.003 χ^2 /NDF: 79886.2/37

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

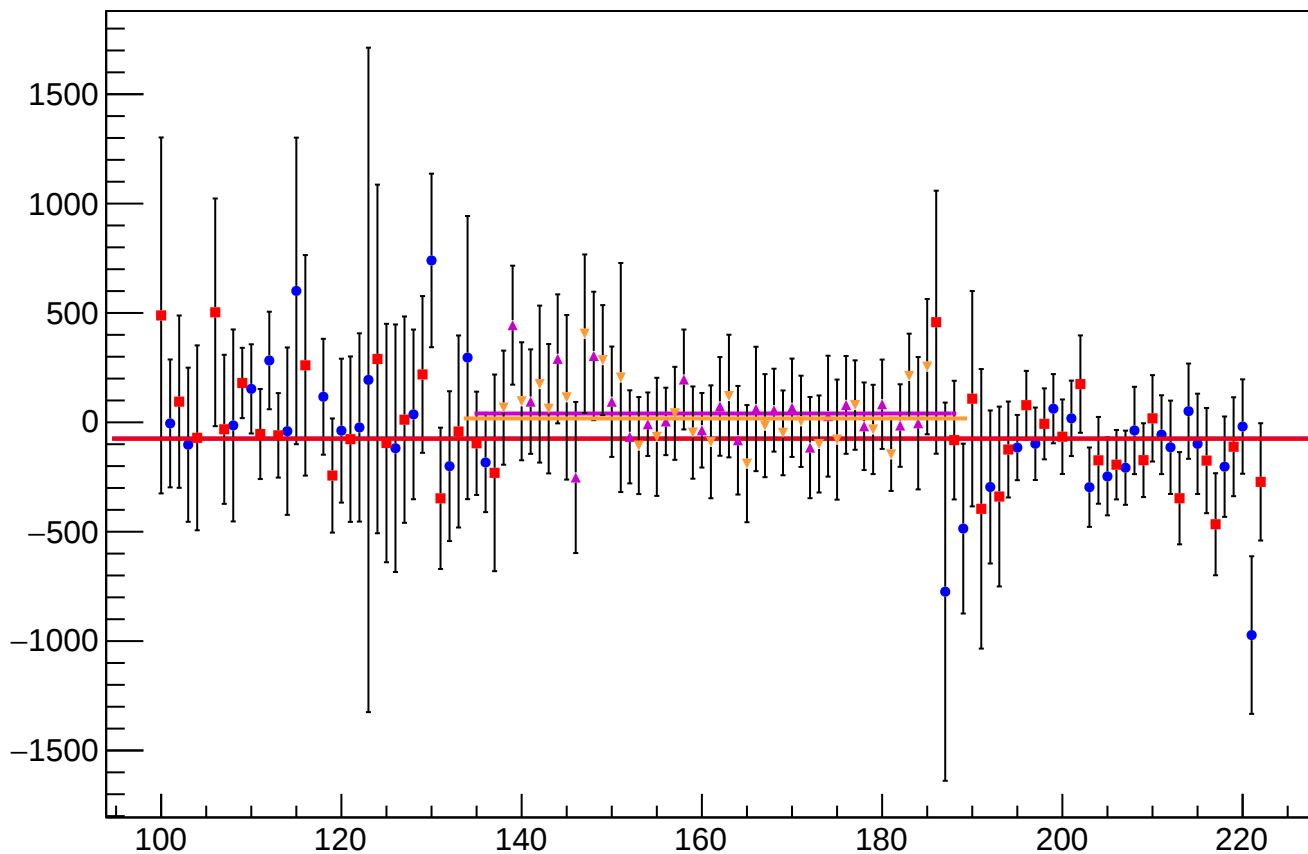
Right: 17.043 $\pm$ 0.002 χ^2 /NDF: 146750.6/72

In: 16.936 $\pm$ 0.002 χ^2 /NDF:185185.6/57

Out: 17.012 $\pm$ 0.002 χ^2 /NDF:220176.2/62

All: 16.975 $\pm$ 0.001 χ^2 /NDF: 406121.3/120

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -73.864 ± 41.243 χ^2/NDF : 23.8/34

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -75.093 ± 40.960 χ^2/NDF : 17.7/37

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

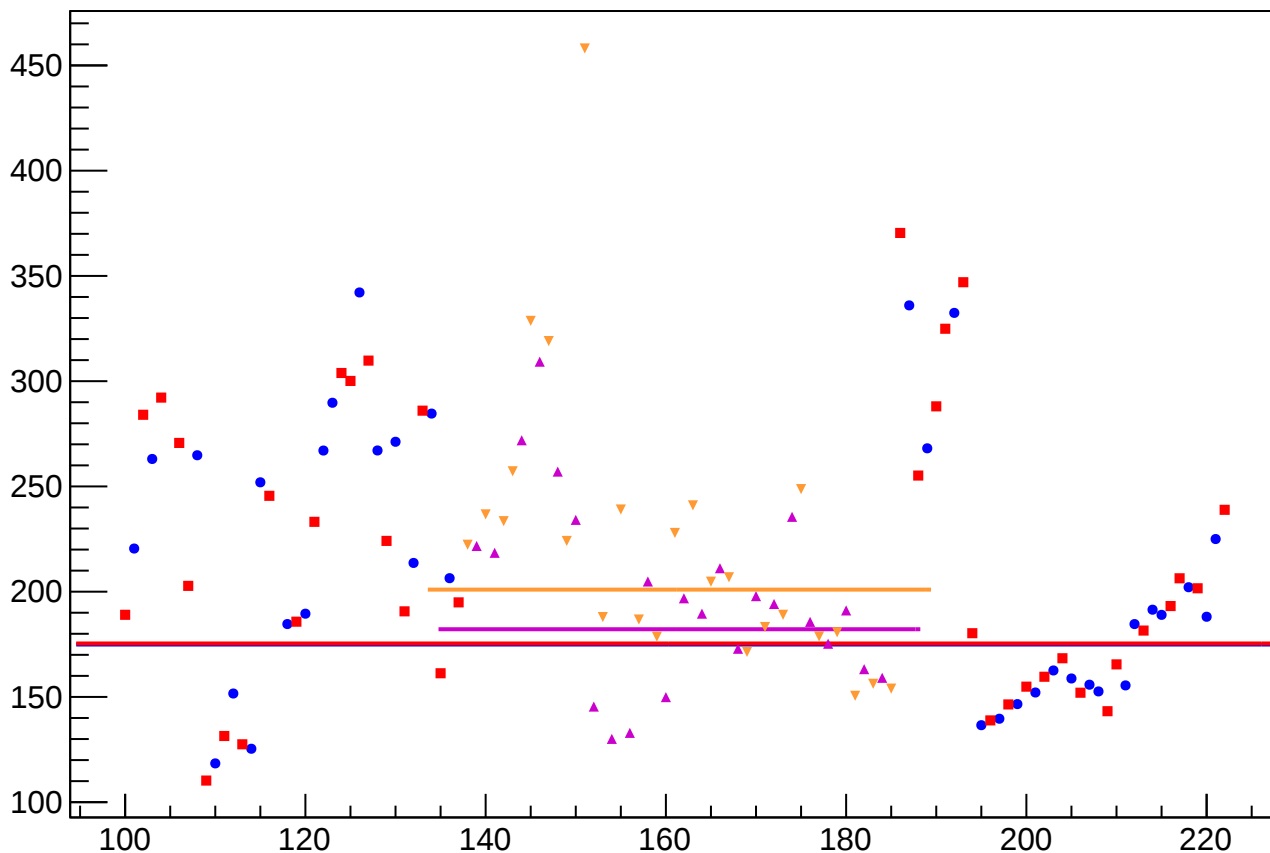
Right: -74.483 ± 29.063 χ^2/NDF : 41.5/72

In: -22.581 ± 30.615 χ^2/NDF : 33.9/57

Out: -36.453 ± 31.306 χ^2/NDF : 27.3/62

All: -29.362 ± 21.888 χ^2/NDF : 61.2/120

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.906 $\pm$ 0.029 χ^2 /NDF: 2236665.9/34

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 175.394 $\pm$ 0.029 χ^2 /NDF: 2984677.7/37

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

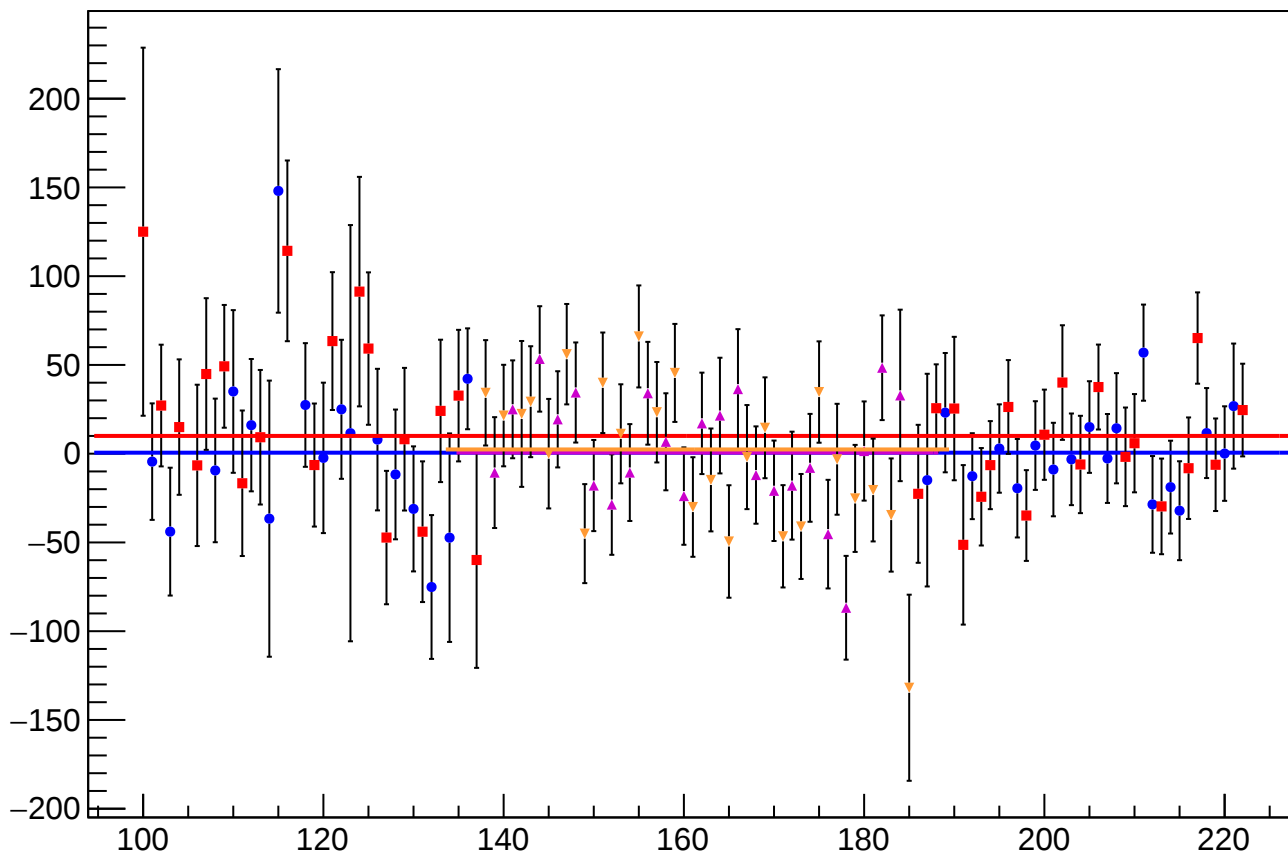
Right: 175.151 $\pm$ 0.021 χ^2 /NDF: 5221484.5/72

In: 178.162 $\pm$ 0.022 χ^2 /NDF:3800356.6/57

Out: 186.036 $\pm$ 0.022 χ^2 /NDF:5036628.4/62

All: 182.011 $\pm$ 0.015 χ^2 /NDF: 8901652.1/120

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.562 $\pm$ 5.423 χ^2 /NDF: 25.6/34

Left Out: 2.390 $\pm$ 5.980 χ^2 /NDF:39.1/24

Right Out: 10.008 $\pm$ 5.300 χ^2 /NDF: 38.4/37

Left In: 0.641 $\pm$ 6.091 χ^2 /NDF:27.3/22

Left: 1.531 $\pm$ 4.267 χ^2 /NDF: 66.5/47

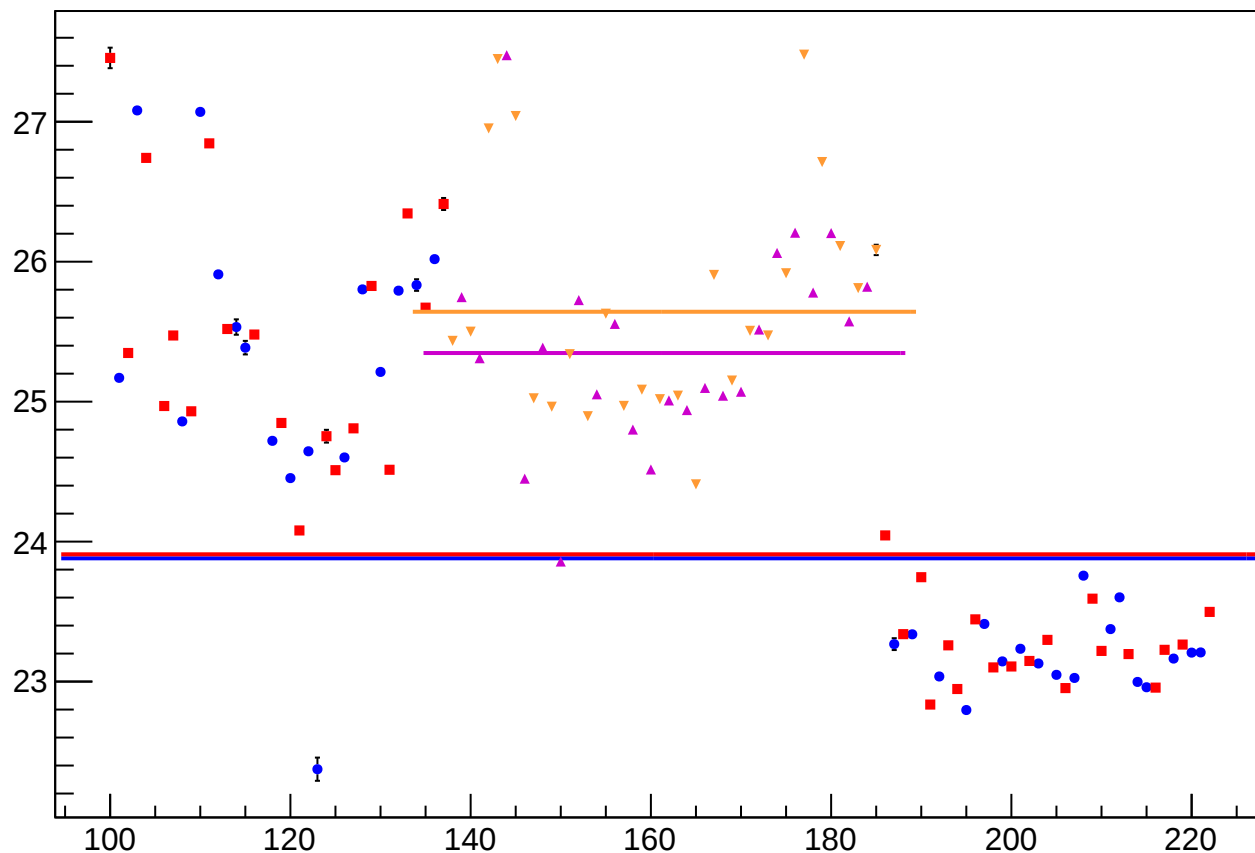
Right: 5.393 $\pm$ 3.790 χ^2 /NDF: 65.6/72

In: 0.597 $\pm$ 4.050 χ^2 /NDF:53.0/57

Out: 6.656 $\pm$ 3.966 χ^2 /NDF:78.4/62

All: 3.690 $\pm$ 2.834 χ^2 /NDF: 132.5/120

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.880 $\pm$ 0.004 χ^2/NDF : 92764.4/34

Left Out: 25.642 $\pm$ 0.004 χ^2/NDF : 34802.2/24

Right Out: 23.909 $\pm$ 0.004 χ^2/NDF : 86424.1/37

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

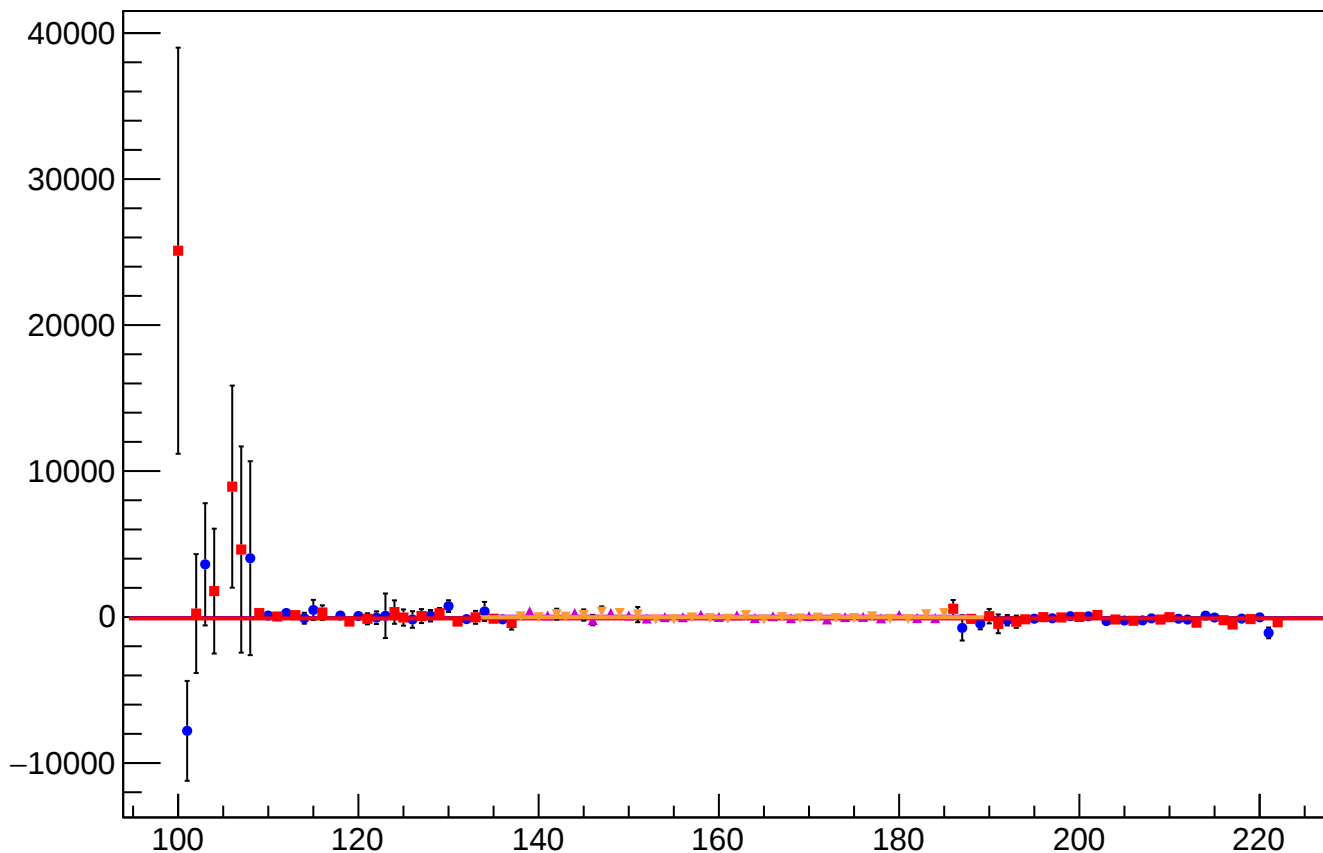
Right: 23.895 $\pm$ 0.003 χ^2/NDF : 179217.4/72

In: 24.529 $\pm$ 0.003 χ^2/NDF : 186863.8/57

Out: 24.672 $\pm$ 0.003 χ^2/NDF : 215301.1/62

All: 24.602 $\pm$ 0.002 χ^2/NDF : 403431.5/120

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.990 ± 42.936 $\chi^2/\text{NDF}: 29.9/34$

Left Out: -11.432 ± 48.263 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -91.951 ± 43.246 $\chi^2/\text{NDF}: 25.4/37$

Left In: 27.098 ± 45.999 $\chi^2/\text{NDF}: 7.2/22$

Left: 8.758 ± 33.298 $\chi^2/\text{NDF}: 15.5/47$

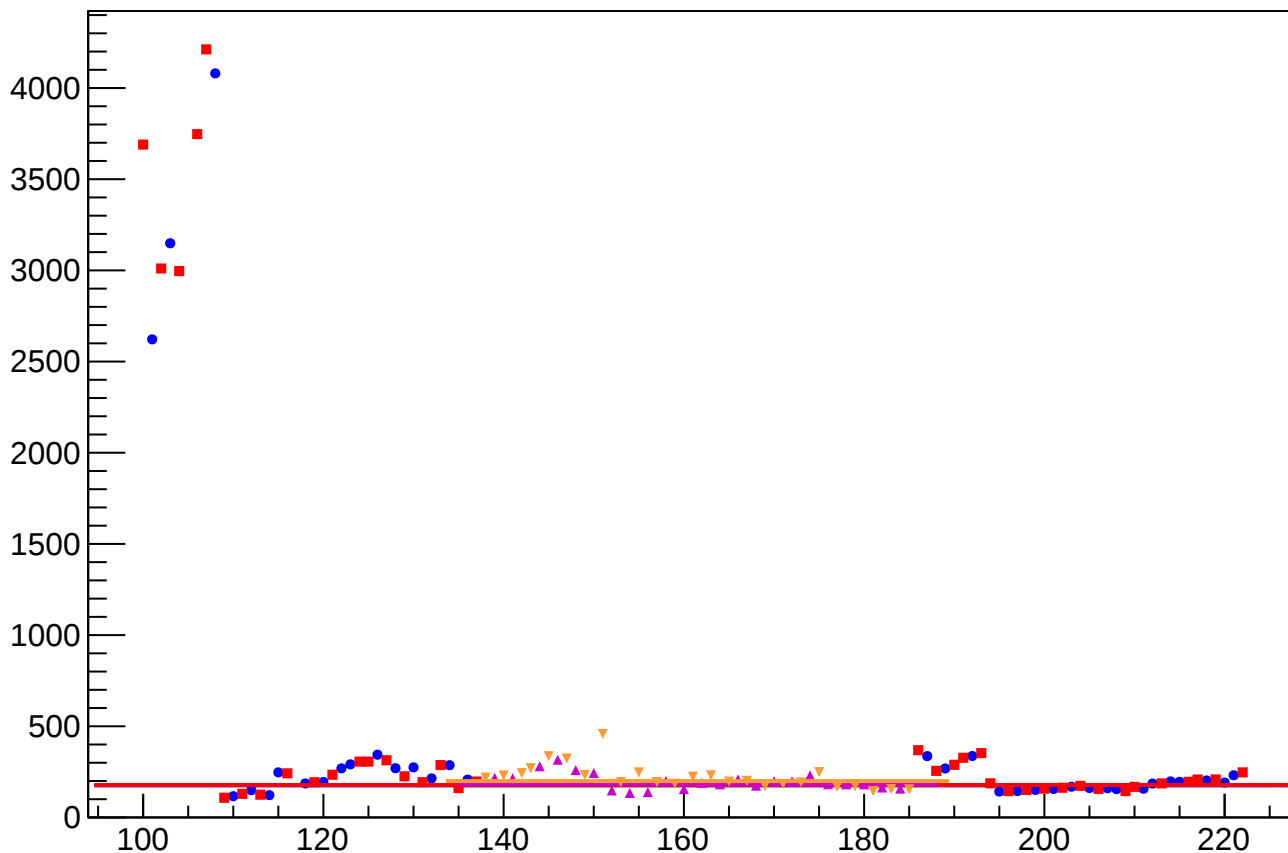
Right: -81.899 ± 30.469 $\chi^2/\text{NDF}: 55.5/72$

In: -25.855 ± 31.387 $\chi^2/\text{NDF}: 39.6/57$

Out: -56.093 ± 32.207 $\chi^2/\text{NDF}: 35.0/62$

All: -40.584 ± 22.478 $\chi^2/\text{NDF}: 75.0/120$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.074+/-0.030 χ^2/NDF : 4657040.4/34

Left Out: 199.438+/-0.034 χ^2/NDF :1877848.7/24

Right Out: 177.662+/-0.031 χ^2/NDF : 5629645.8/37

Left In: 183.805+/-0.033 χ^2/NDF :1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

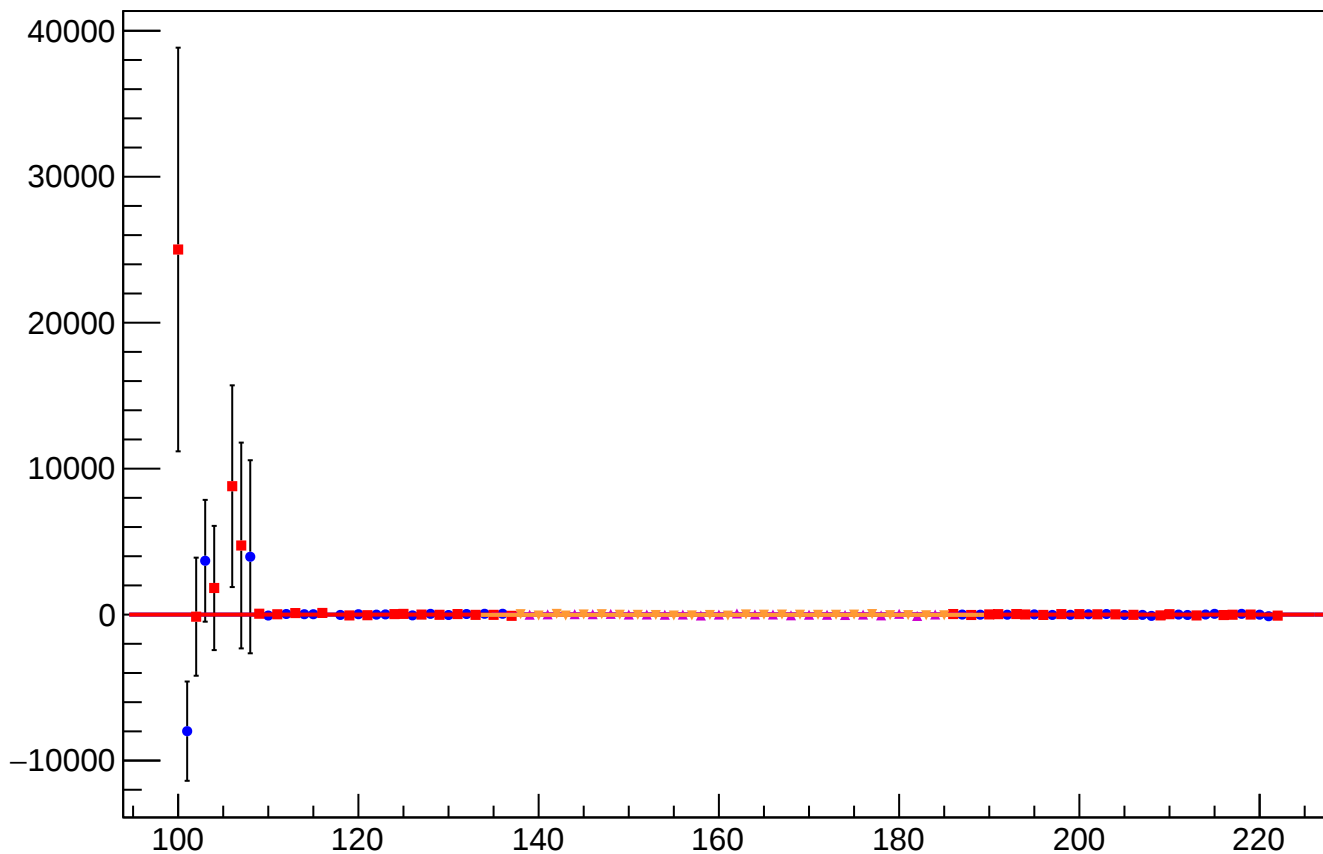
Right: 176.862+/-0.022 χ^2/NDF : 10288045.3/72

In: 179.673+/-0.022 χ^2/NDF :6100104.0/57

Out: 187.360+/-0.023 χ^2/NDF :7733323.8/62

All: 183.417+/-0.016 χ^2/NDF : 13891852.3/12

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.906 ± 6.501 $\chi^2/\text{NDF}: 41.4/34$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 1.060 ± 6.484 $\chi^2/\text{NDF}: 43.3/37$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

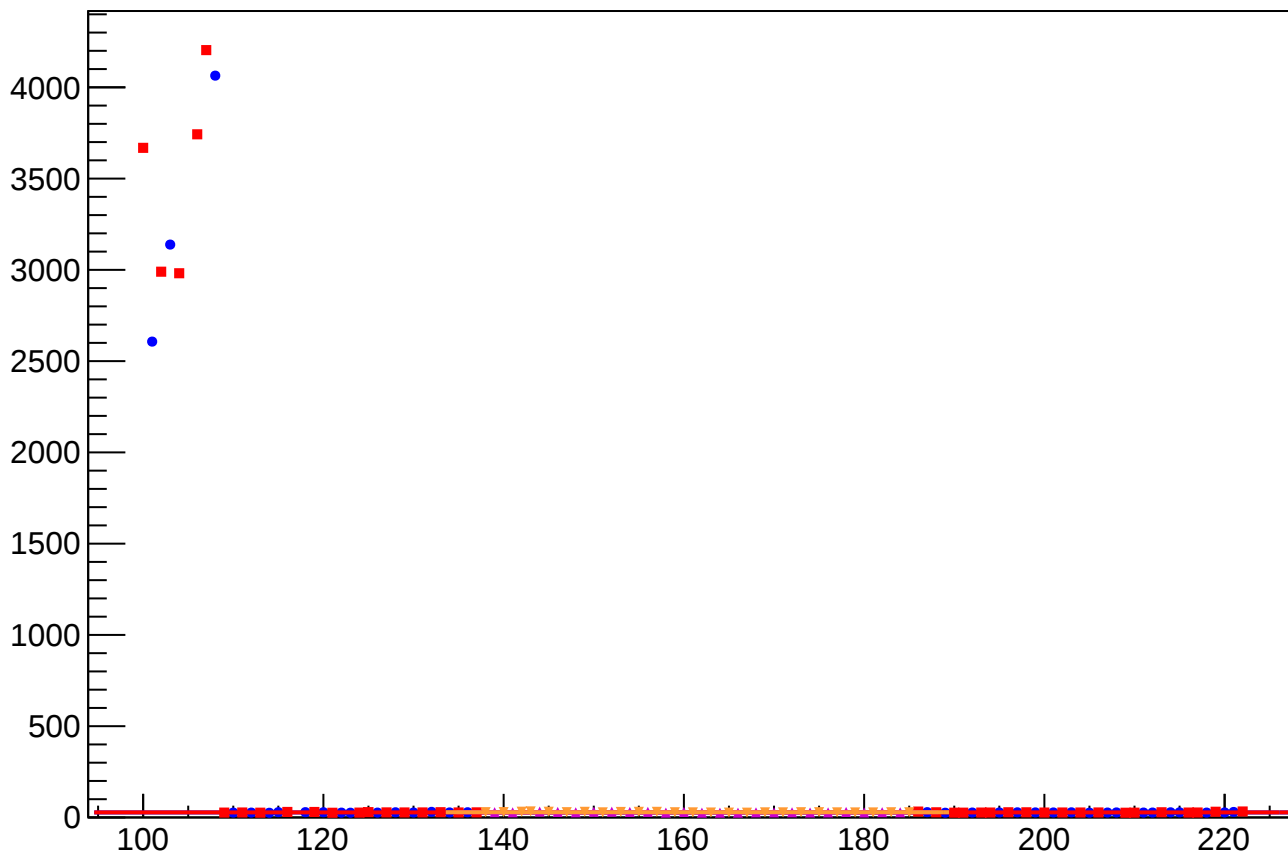
Right: 0.984 ± 4.591 $\chi^2/\text{NDF}: 84.7/72$

In: 1.076 ± 4.734 $\chi^2/\text{NDF}: 73.5/57$

Out: -8.210 ± 4.661 $\chi^2/\text{NDF}: 69.3/62$

All: -3.640 ± 3.321 $\chi^2/\text{NDF}: 144.7/120$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.508 $\pm$ 0.005 χ^2 /NDF: 3051858.2/34

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.727 $\pm$ 0.005 χ^2 /NDF: 3575982.2/37

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

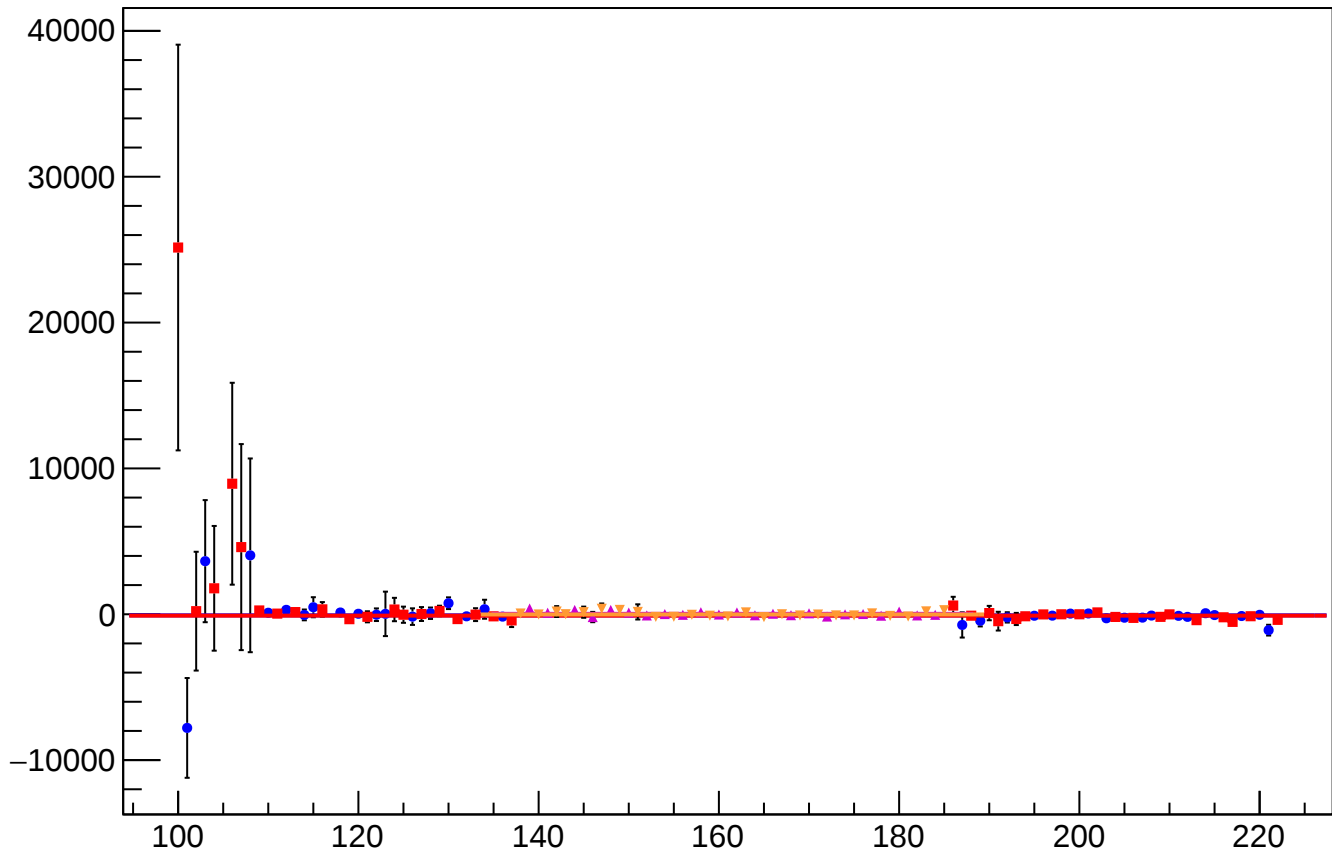
Right: 27.618 $\pm$ 0.003 χ^2 /NDF: 6628973.6/72

In: 28.057 $\pm$ 0.003 χ^2 /NDF: 3206032.9/57

Out: 28.194 $\pm$ 0.003 χ^2 /NDF: 3707956.3/62

All: 28.127 $\pm$ 0.002 χ^2 /NDF: 6914840.6/120

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -73.855 ± 42.804 $\chi^2/\text{NDF}: 30.2/34$

Left Out: -13.878 ± 48.155 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -94.857 ± 43.121 $\chi^2/\text{NDF}: 26.6/37$

Left In: 27.286 ± 45.907 $\chi^2/\text{NDF}: 7.5/22$

Left: 7.688 ± 33.228 $\chi^2/\text{NDF}: 16.7/47$

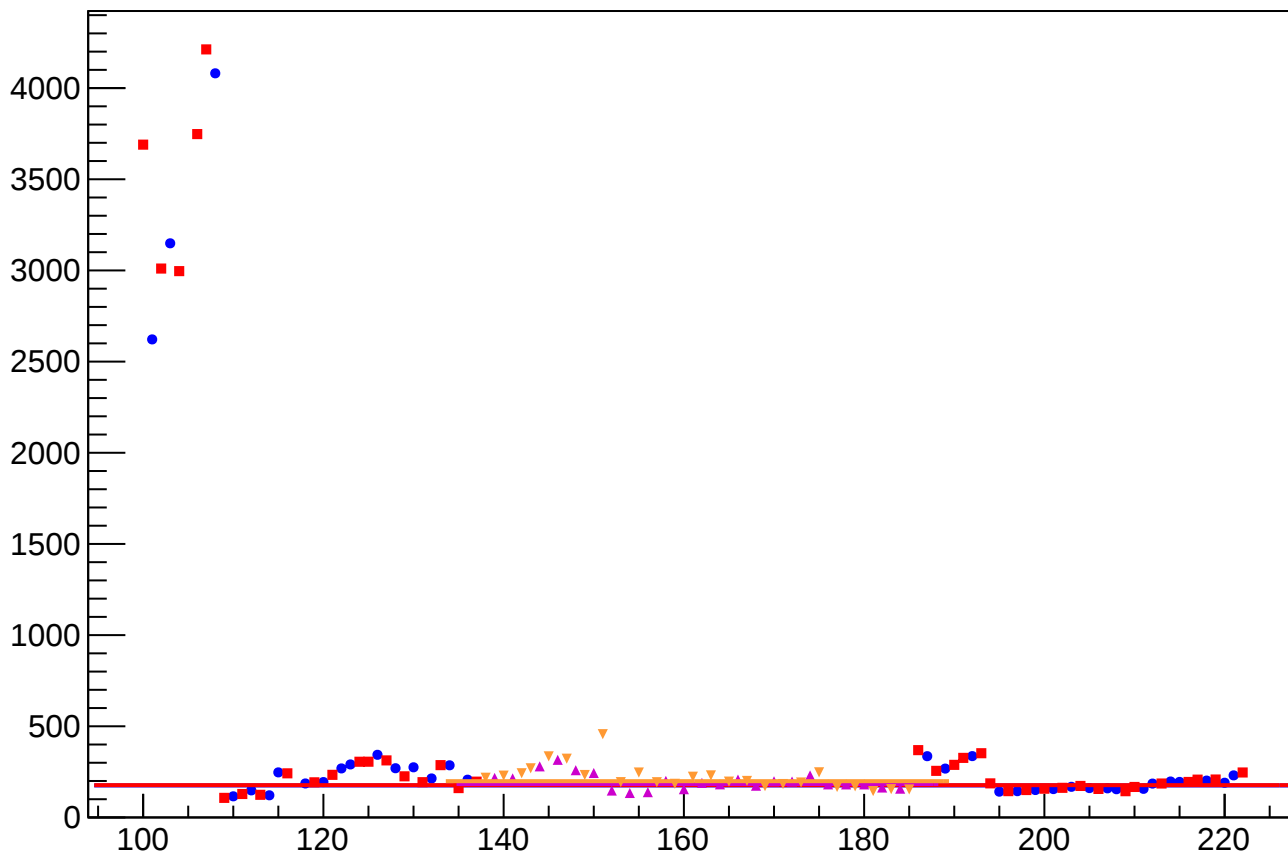
Right: -84.279 ± 30.378 $\chi^2/\text{NDF}: 57.0/72$

In: -26.818 ± 31.306 $\chi^2/\text{NDF}: 40.3/57$

Out: -58.821 ± 32.124 $\chi^2/\text{NDF}: 37.0/62$

All: -42.407 ± 22.420 $\chi^2/\text{NDF}: 77.8/120$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.498 $\pm$ 0.030 χ^2 /NDF: 4670459.2/34

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 177.103 $\pm$ 0.030 χ^2 /NDF: 5648238.9/37

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

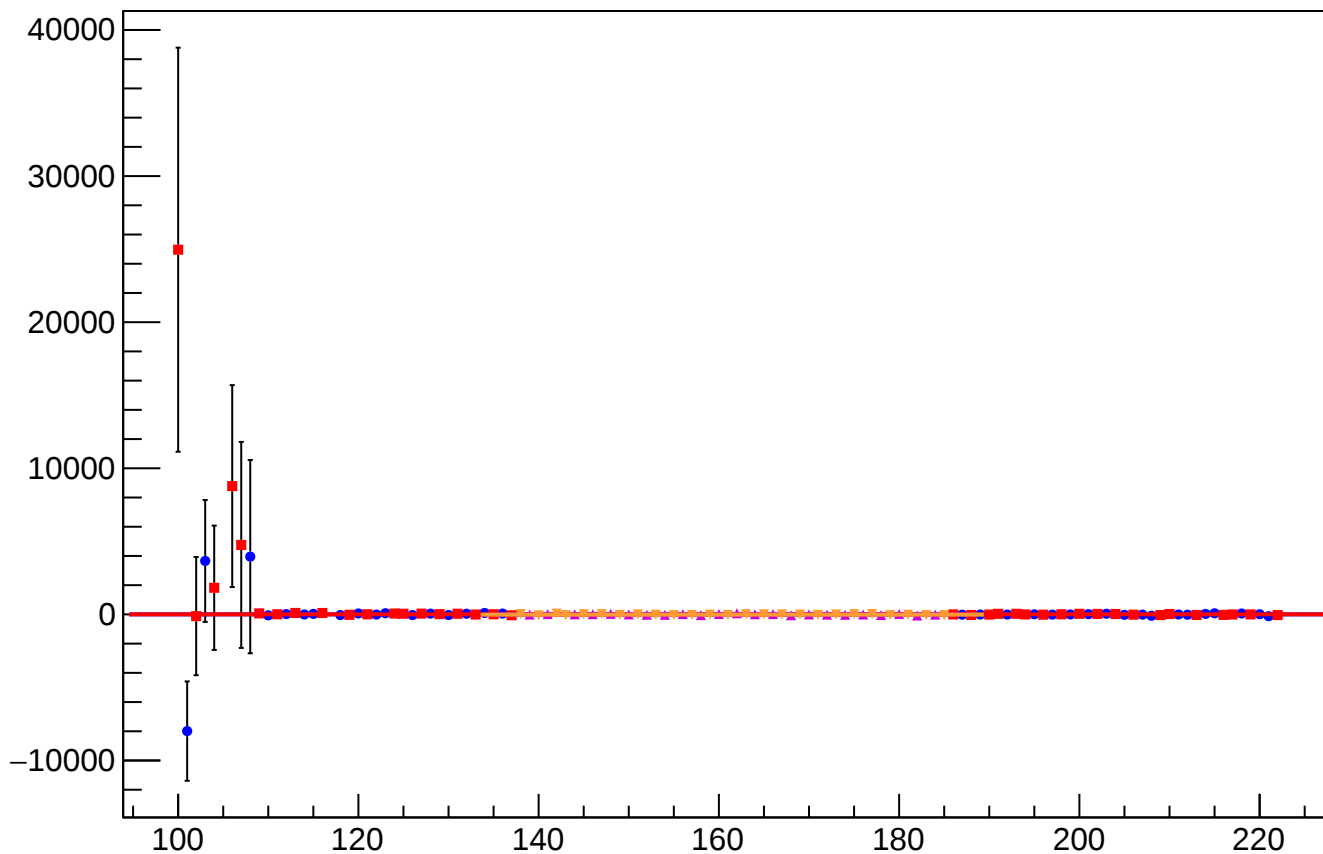
Right: 176.295 $\pm$ 0.021 χ^2 /NDF: 10320093.1/72

In: 179.192 $\pm$ 0.022 χ^2 /NDF:6114832.7/57

Out: 186.846 $\pm$ 0.023 χ^2 /NDF:7755311.8/62

All: 182.920 $\pm$ 0.016 χ^2 /NDF: 13928367.5/12

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.630 ± 6.456 $\chi^2/\text{NDF}: 52.6/34$

Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$

Right Out: 4.770 ± 6.450 $\chi^2/\text{NDF}: 36.5/37$

Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$

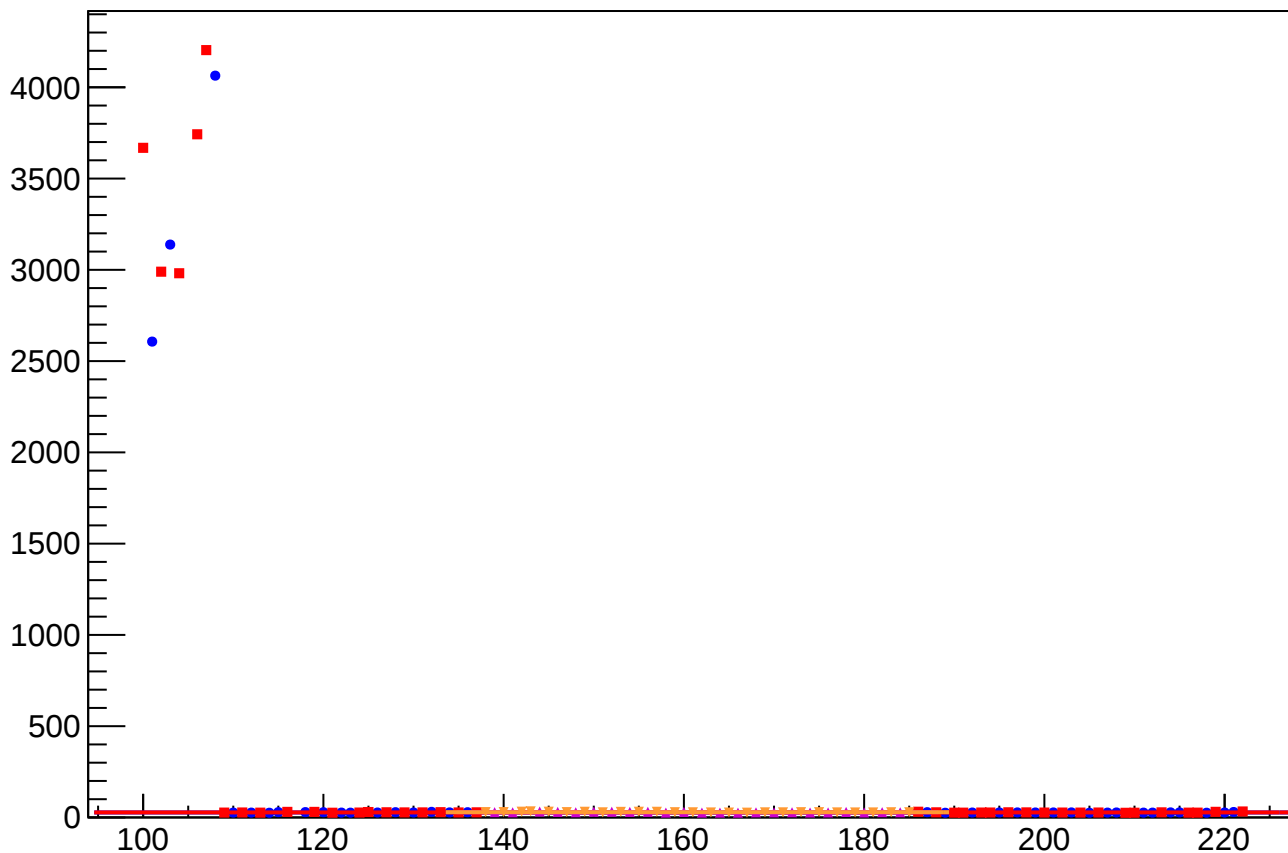
Right: 3.701 ± 4.563 $\chi^2/\text{NDF}: 89.1/72$

In: 1.178 ± 4.726 $\chi^2/\text{NDF}: 78.8/57$

Out: -5.088 ± 4.658 $\chi^2/\text{NDF}: 57.9/62$

All: -2.000 ± 3.317 $\chi^2/\text{NDF}: 137.5/120$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.312 $\pm$ 0.005 χ^2 /NDF: 3062161.8/34

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 27.578 $\pm$ 0.005 χ^2 /NDF: 3582308.4/37

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

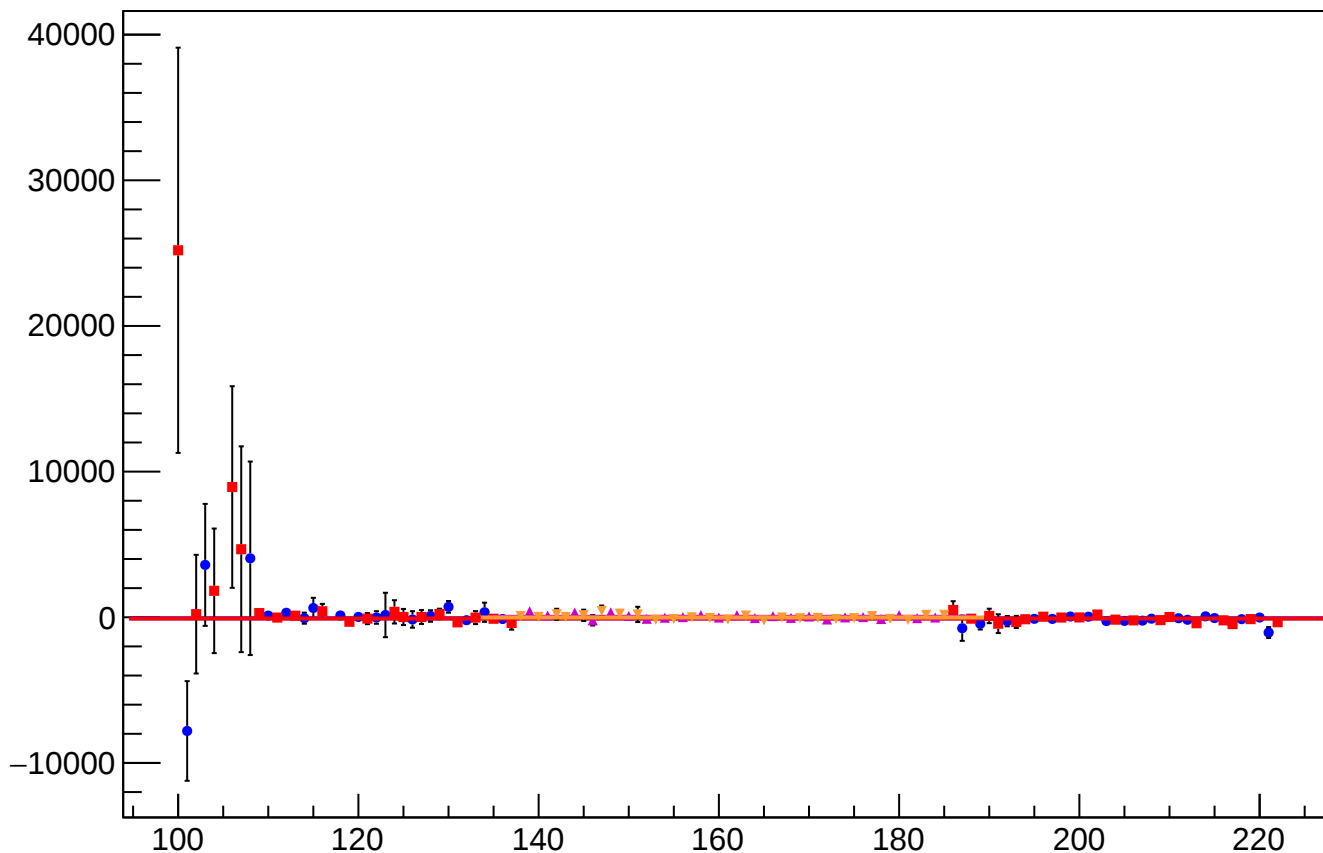
Right: 27.445 $\pm$ 0.003 χ^2 /NDF: 6646179.3/72

In: 28.001 $\pm$ 0.003 χ^2 /NDF:3239596.6/57

Out: 28.170 $\pm$ 0.003 χ^2 /NDF:3739595.1/62

All: 28.087 $\pm$ 0.002 χ^2 /NDF: 6980483.3/120

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.753 ± 43.094 $\chi^2/\text{NDF}: 29.7/34$

Left Out: -13.966 ± 48.735 $\chi^2/\text{NDF}: 8.1/24$

Right Out: -85.180 ± 43.435 $\chi^2/\text{NDF}: 25.1/37$

Left In: 31.477 ± 46.483 $\chi^2/\text{NDF}: 7.8/22$

Left: 9.830 ± 33.637 $\chi^2/\text{NDF}: 16.4/47$

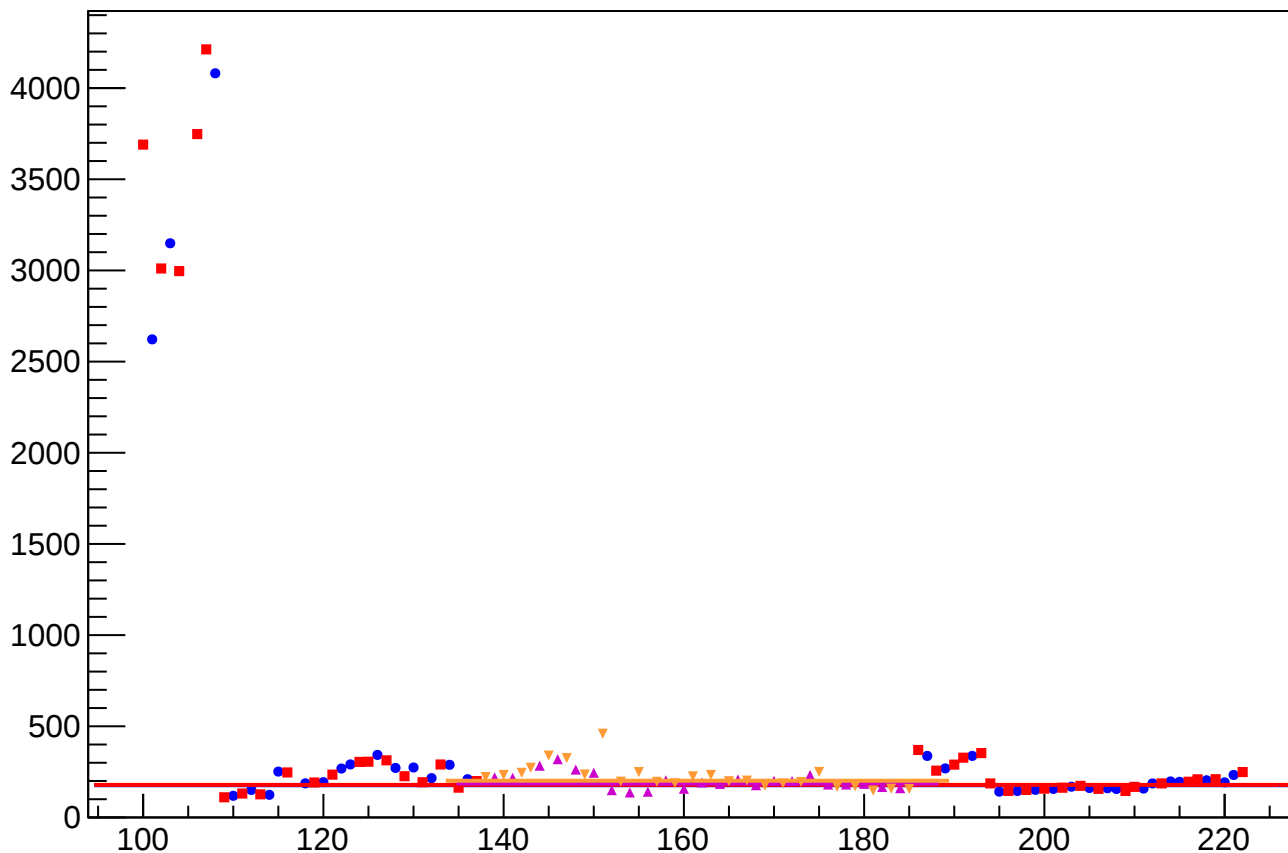
Right: -78.414 ± 30.592 $\chi^2/\text{NDF}: 54.9/72$

In: -24.038 ± 31.602 $\chi^2/\text{NDF}: 40.2/57$

Out: -53.655 ± 32.426 $\chi^2/\text{NDF}: 34.5/62$

All: -38.465 ± 22.632 $\chi^2/\text{NDF}: 75.1/120$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.775 $\pm$ 0.030 χ^2/NDF : 4636868.8/34

Left Out: 201.503 $\pm$ 0.034 χ^2/NDF : 1854905.1/24

Right Out: 178.568 $\pm$ 0.031 χ^2/NDF : 5588815.3/37

Left In: 185.878 $\pm$ 0.033 χ^2/NDF : 1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2/NDF : 3343425.2/47

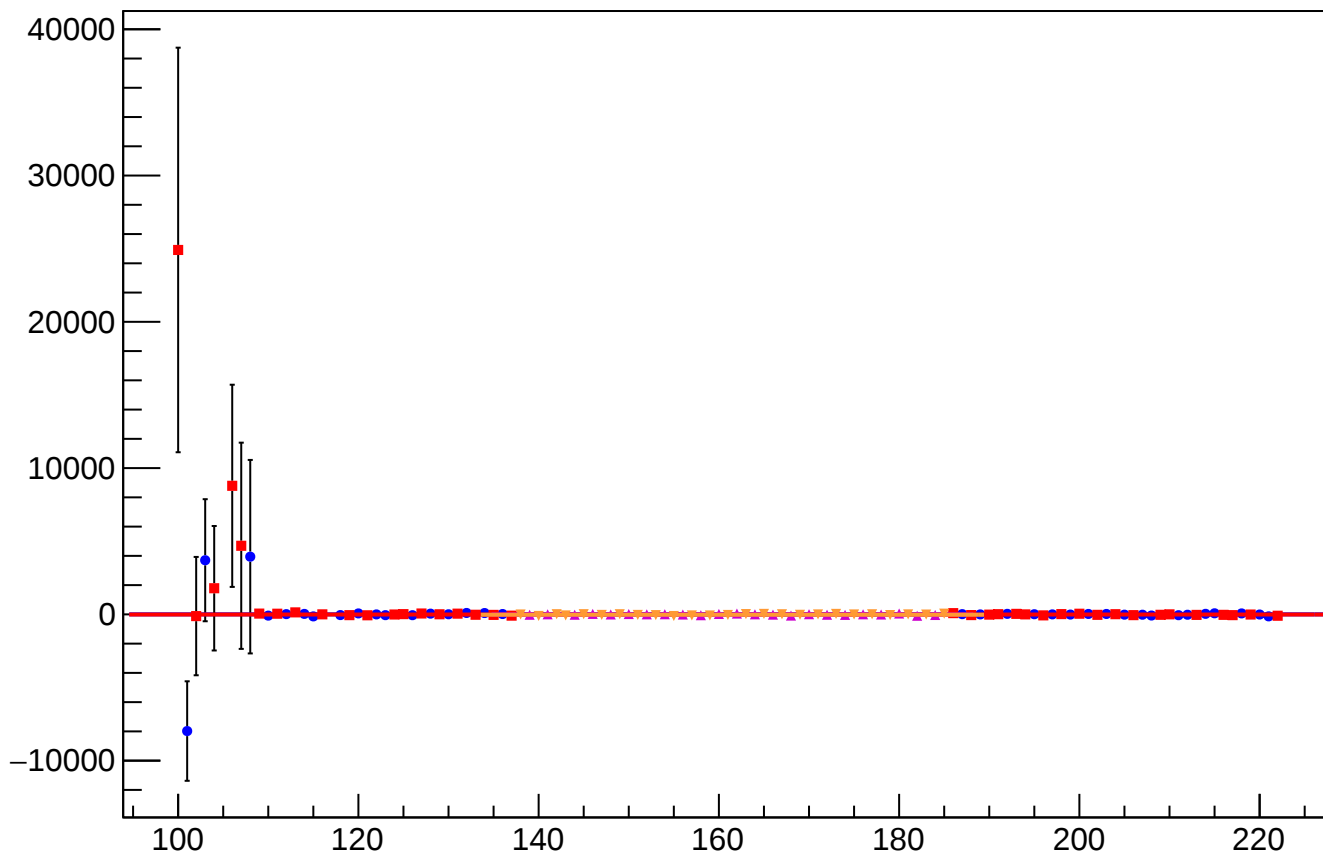
Right: 177.664 $\pm$ 0.022 χ^2/NDF : 10227400.5/72

In: 180.983 $\pm$ 0.022 χ^2/NDF : 6058997.5/57

Out: 188.721 $\pm$ 0.023 χ^2/NDF : 7690576.3/62

All: 184.752 $\pm$ 0.016 χ^2/NDF : 13807984.2/12

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.055+/-7.866 χ^2/NDF : 43.8/34

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: -9.552+/-7.840 χ^2/NDF : 42.2/37

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

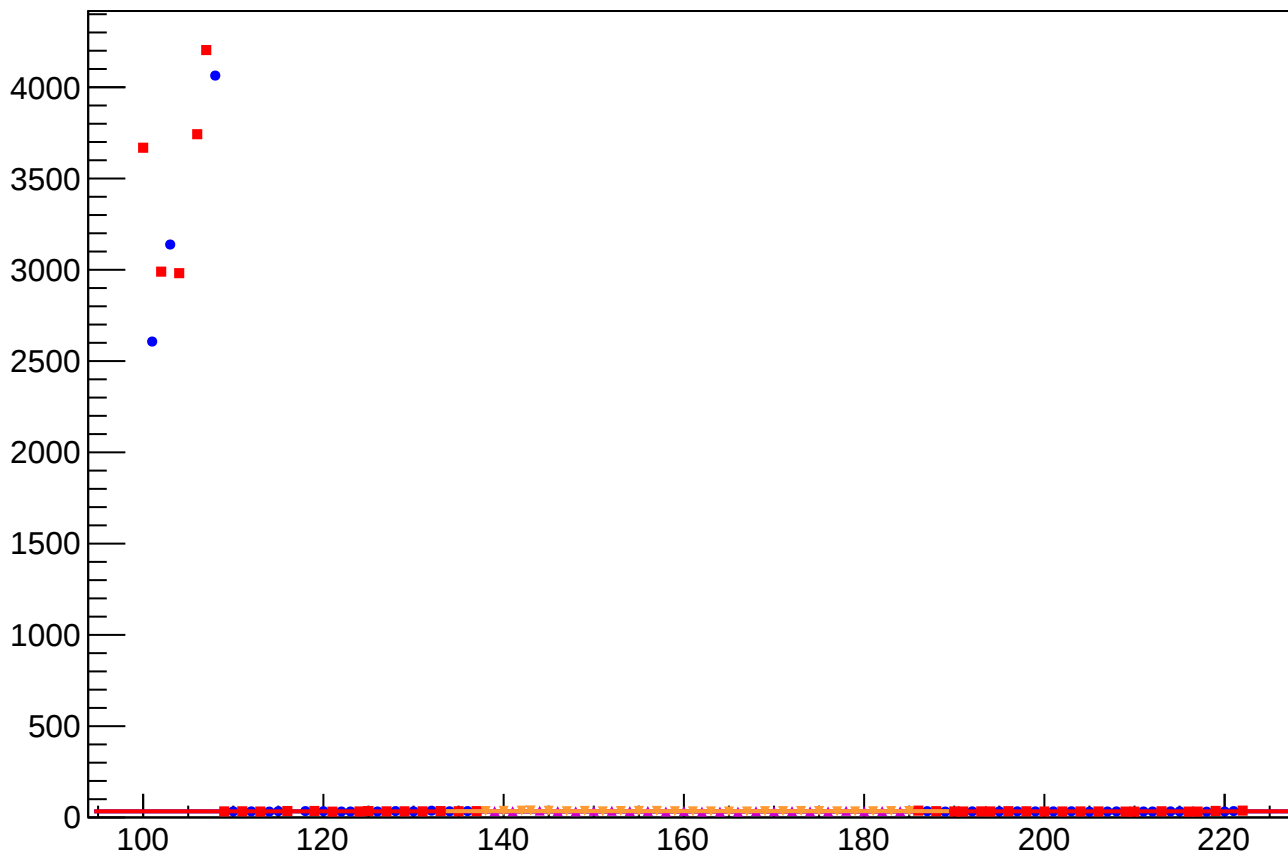
Right: -3.768+/-5.553 χ^2/NDF : 87.1/72

In: -1.701+/-5.722 χ^2/NDF : 65.3/57

Out: -16.631+/-5.625 χ^2/NDF : 68.8/62

All: -9.294+/-4.011 χ^2/NDF : 137.5/120

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.299 $\pm$ 0.006 χ^2 /NDF: 3026535.6/34

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.581 $\pm$ 0.006 χ^2 /NDF: 3502735.9/37

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

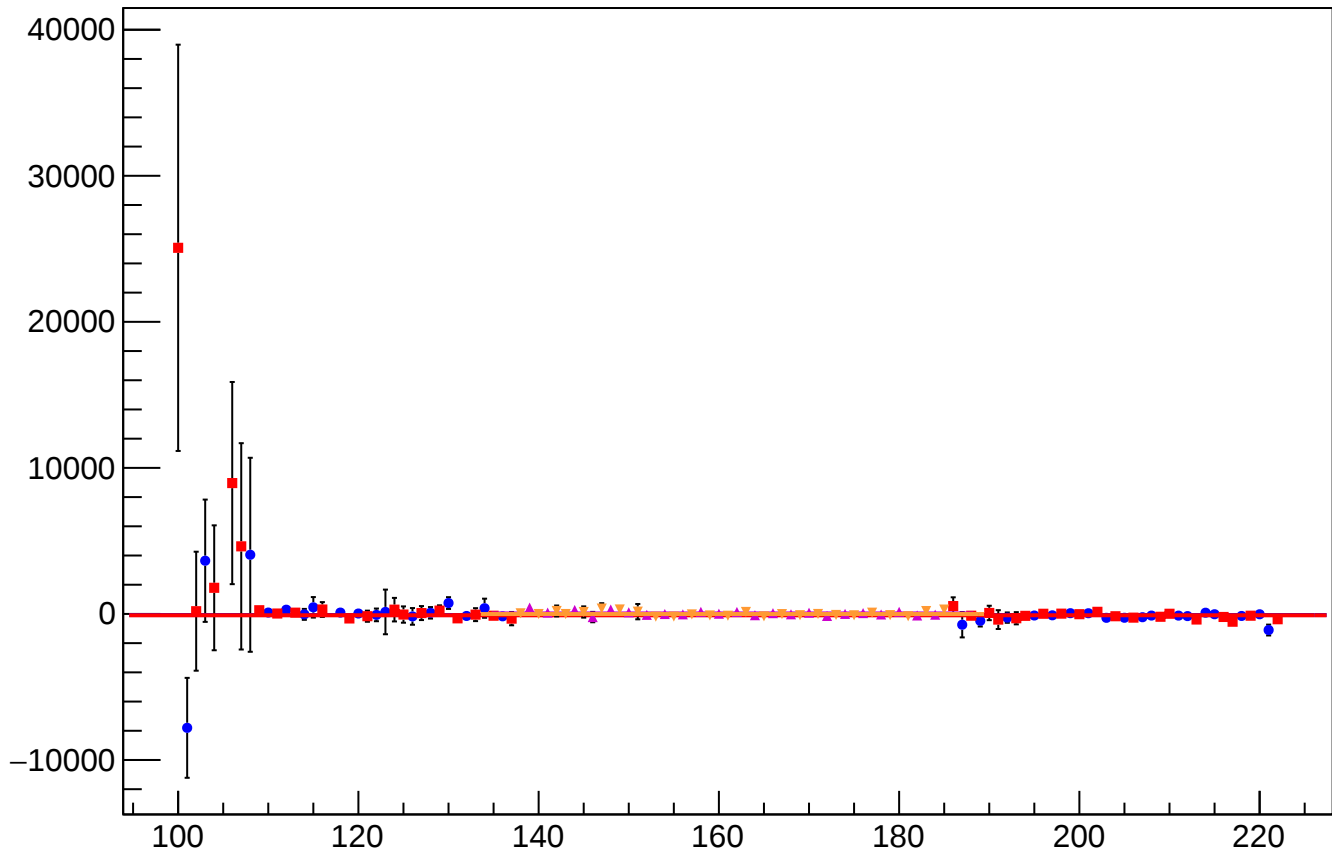
Right: 33.441 $\pm$ 0.004 χ^2 /NDF: 6530566.6/72

In: 33.950 $\pm$ 0.004 χ^2 /NDF: 3115477.0/57

Out: 34.084 $\pm$ 0.004 χ^2 /NDF: 3577552.7/62

All: 34.018 $\pm$ 0.003 χ^2 /NDF: 6693589.1/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -76.136+/-42.973 χ^2/NDF : 30.2/34

Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24

Right Out: -91.500+/-43.282 χ^2/NDF : 24.5/37

Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47

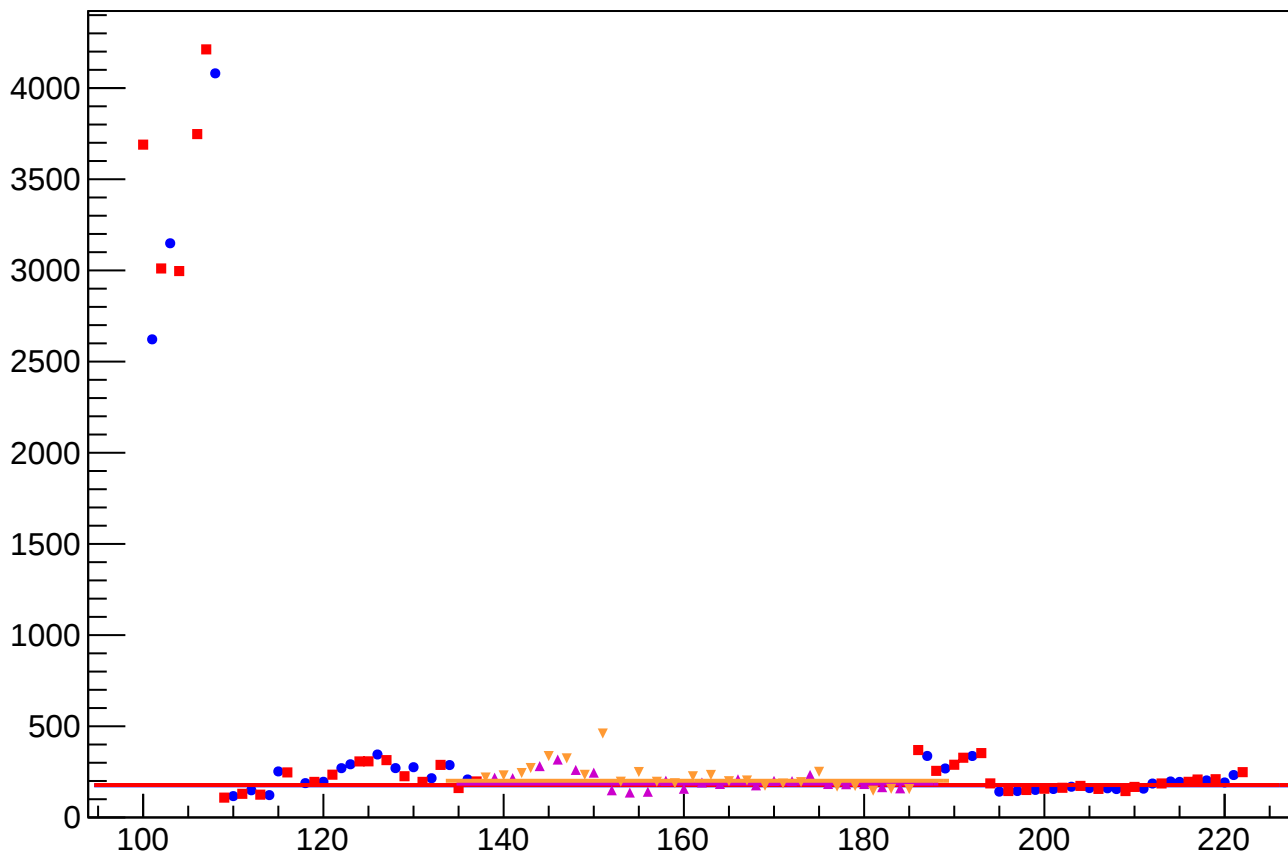
Right: -83.763+/-30.495 χ^2/NDF : 54.8/72

In: -24.858+/-31.535 χ^2/NDF : 40.4/57

Out: -54.424+/-32.340 χ^2/NDF : 35.0/62

All: -39.268+/-22.578 χ^2/NDF : 75.8/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.206 $\pm$ 0.030 χ^2 /NDF: 4667116.1/34

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 177.795 $\pm$ 0.031 χ^2 /NDF: 5640394.8/37

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

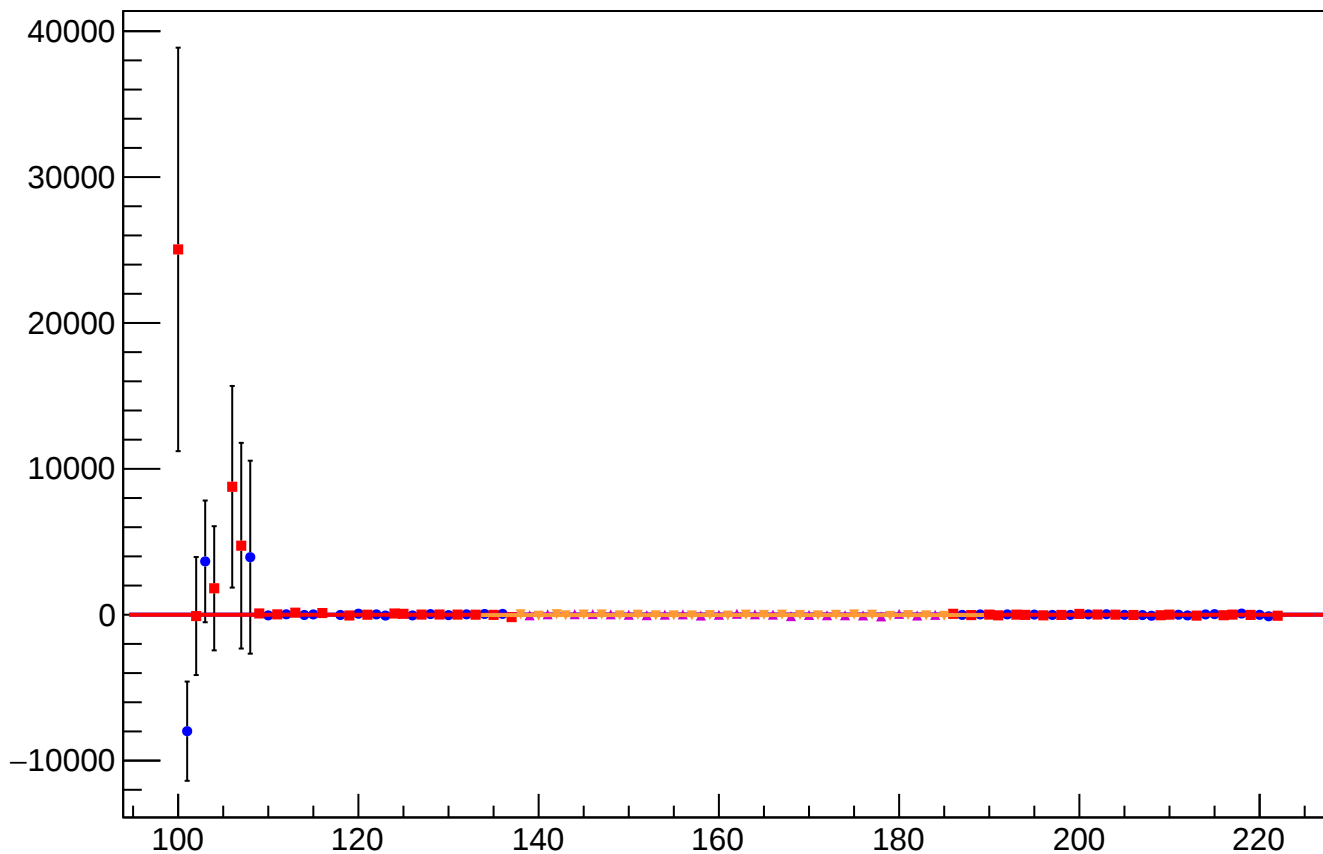
Right: 176.995 $\pm$ 0.022 χ^2 /NDF: 10308869.1/72

In: 180.554 $\pm$ 0.022 χ^2 /NDF:6082893.9/57

Out: 188.132 $\pm$ 0.023 χ^2 /NDF:7747104.4/62

All: 184.247 $\pm$ 0.016 χ^2 /NDF: 13886292.3/12

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.631+/-7.114 χ^2/NDF : 36.5/34

Left Out: -23.320+/-7.352 χ^2/NDF : 18.3/24

Right Out: -1.784+/-7.102 χ^2/NDF : 45.8/37

Left In: -6.386+/-7.577 χ^2/NDF : 38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

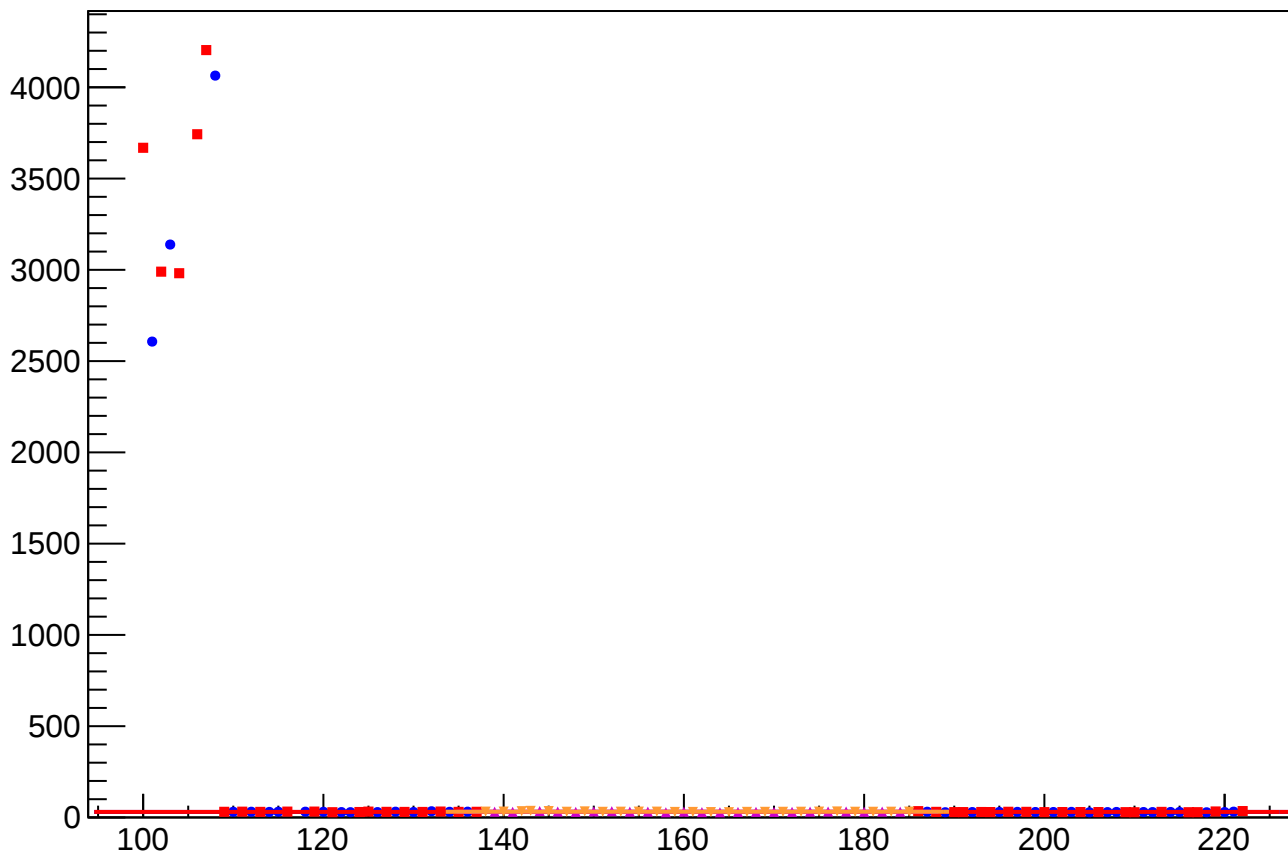
Right: 1.917+/-5.026 χ^2/NDF : 82.9/72

In: 0.001+/-5.186 χ^2/NDF : 76.6/57

Out: -12.179+/-5.108 χ^2/NDF : 68.5/62

All: -6.182+/-3.639 χ^2/NDF : 147.9/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.105 $\pm$ 0.005 χ^2 /NDF: 3047705.4/34

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.390 $\pm$ 0.005 χ^2 /NDF: 3536813.6/37

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF:87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

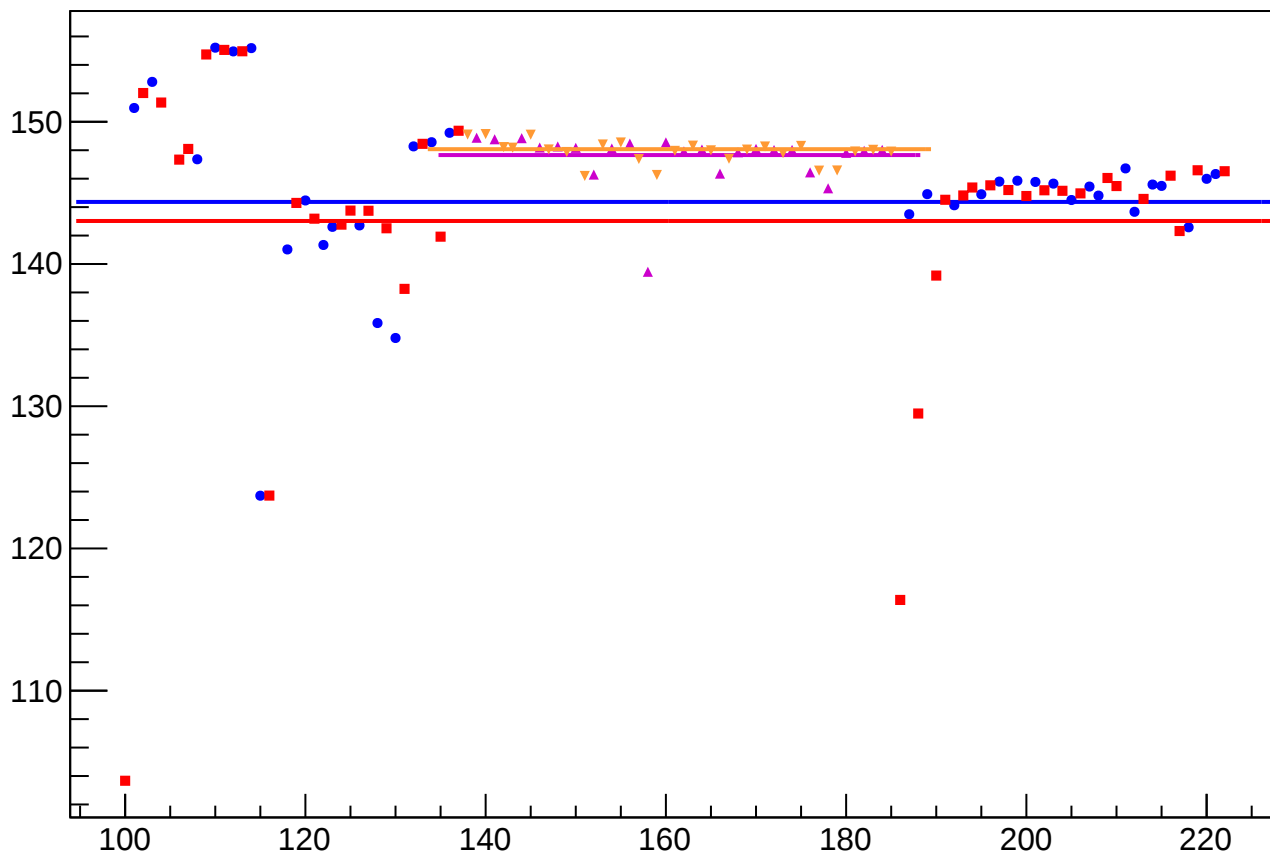
Right: 30.248 $\pm$ 0.004 χ^2 /NDF: 6586129.8/72

In: 30.747 $\pm$ 0.004 χ^2 /NDF:3170277.8/57

Out: 30.920 $\pm$ 0.004 χ^2 /NDF:3641839.9/62

All: 30.835 $\pm$ 0.003 χ^2 /NDF: 6813251.4/120

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.365+/-0.000 χ^2/NDF : 3520824345.6/34

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 143.025+/-0.000 χ^2/NDF : 7511502230.0/37

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

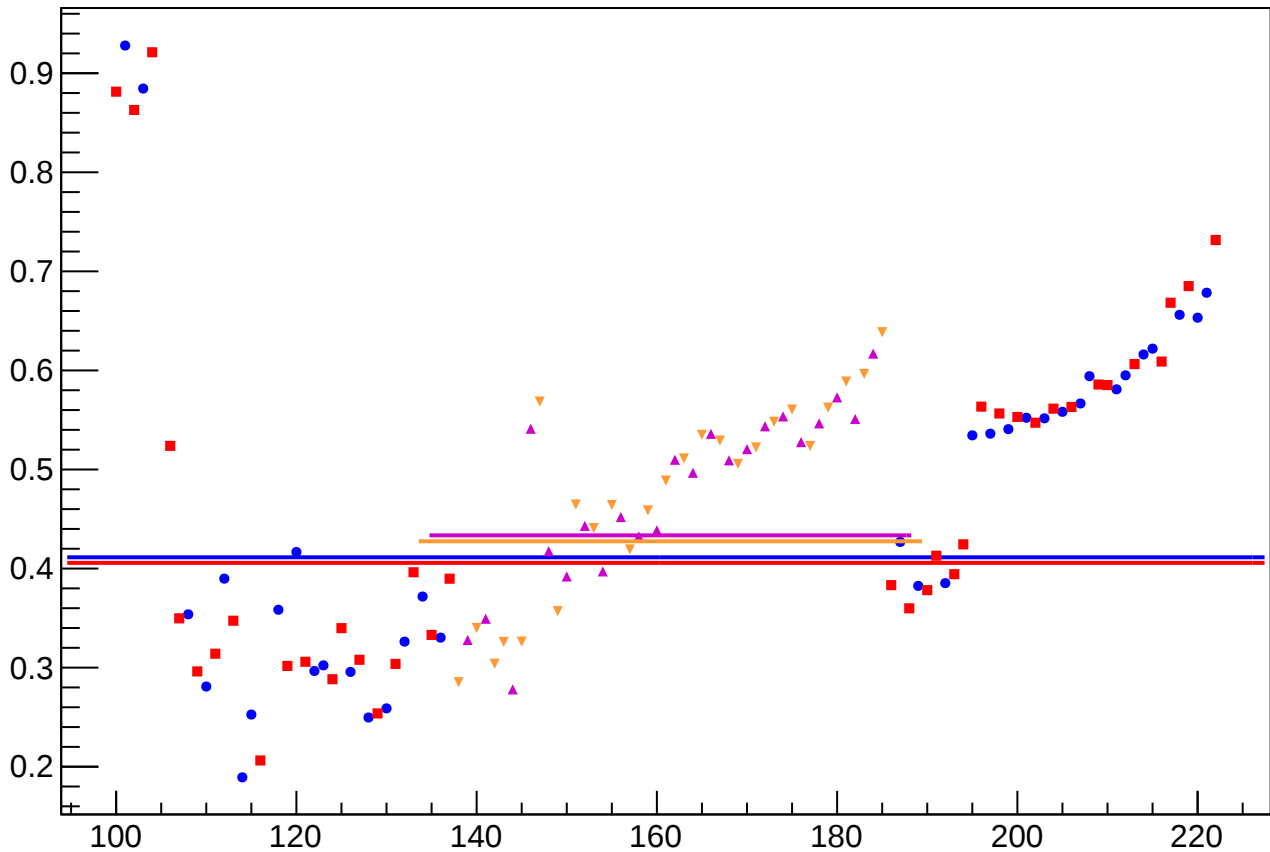
Right: 143.667+/-0.000 χ^2/NDF : 11123139835.0/72

In: 145.911+/-0.000 χ^2/NDF : 4359781788.2/57

Out: 145.384+/-0.000 χ^2/NDF : 8834595815.9/62

All: 145.637+/-0.000 χ^2/NDF : 13220740840.0/112

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.411+/-0.000 χ^2/NDF : 4201868.9/34

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.406+/-0.000 χ^2/NDF : 4113451.3/37

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

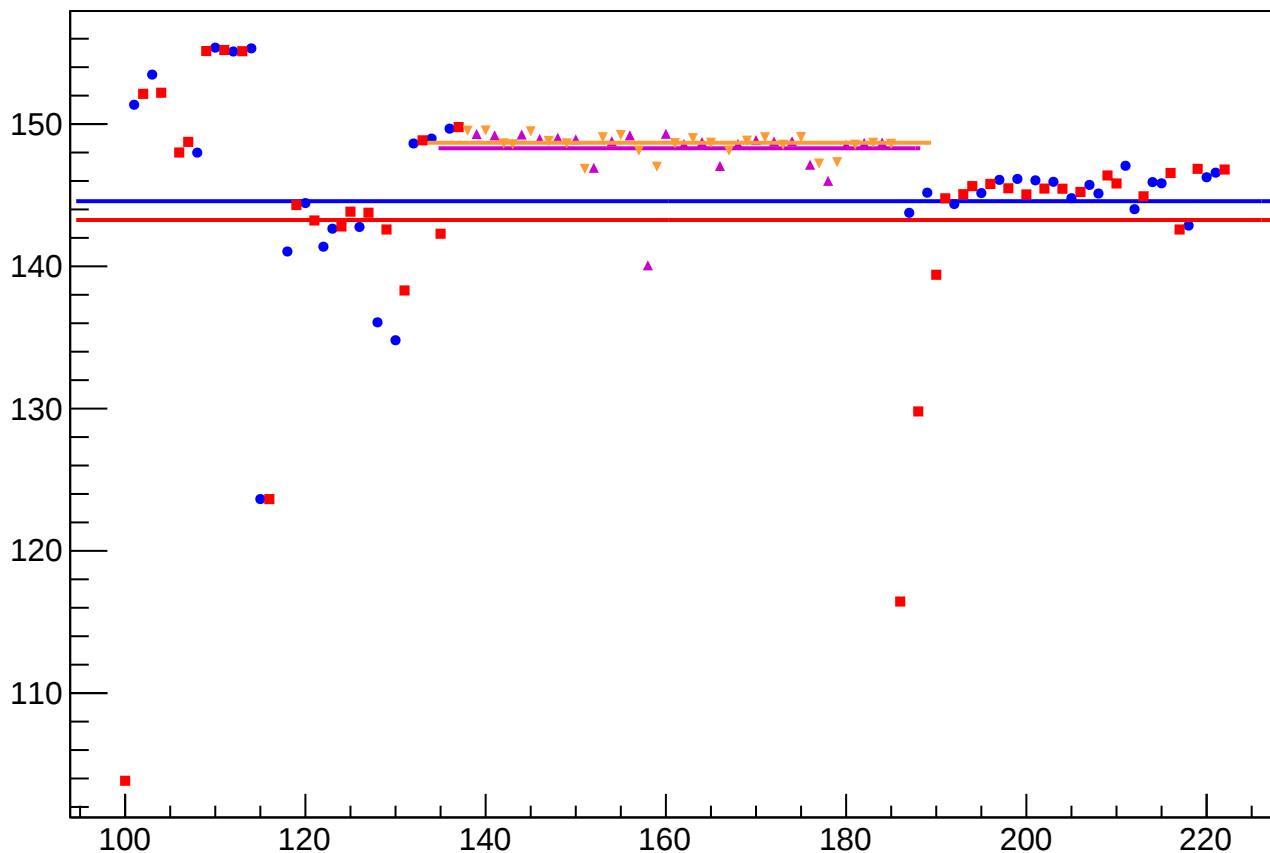
Right: 0.408+/-0.000 χ^2/NDF : 8318498.3/72

In: 0.422+/-0.000 χ^2/NDF :5725926.3/57

Out: 0.416+/-0.000 χ^2/NDF :6052953.0/62

All: 0.419+/-0.000 χ^2/NDF : 11785333.4/120

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.580 $\pm$ 0.000

χ^2 /NDF: 3571702282.5/34

Left Out: 148.687 $\pm$ 0.000

χ^2 /NDF: 52285197.5/24

Right Out: 143.256 $\pm$ 0.000

χ^2 /NDF: 7464500733.6/37

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: 143.891 $\pm$ 0.000

χ^2 /NDF: 11123689822.0/72

In: 146.315 $\pm$ 0.000

χ^2 /NDF: 4523647926.4/57

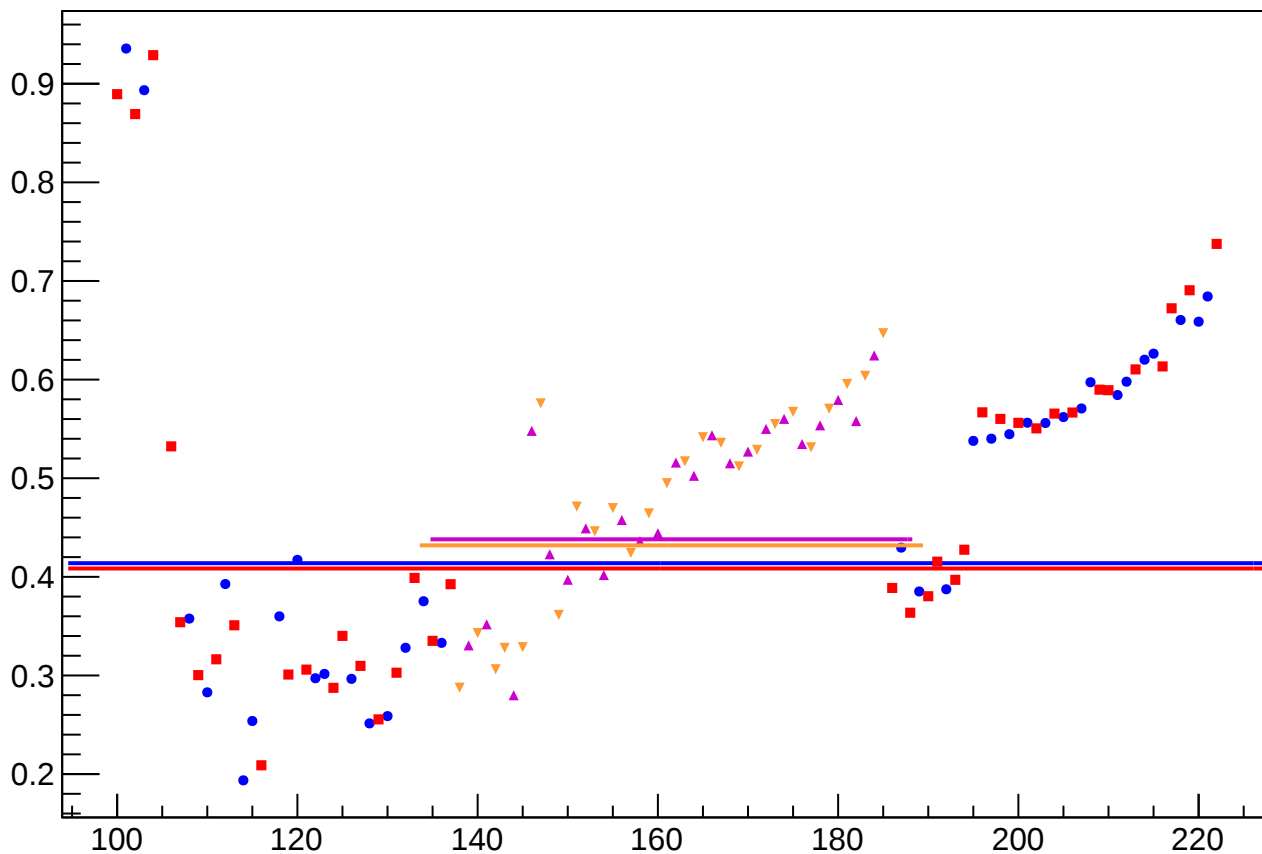
Out: 145.783 $\pm$ 0.000

χ^2 /NDF: 8946289801.2/62

All: 146.039 $\pm$ 0.000

χ^2 /NDF: 13496404739.6/112

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.414+/-0.000 χ^2/NDF : 4212982.6/34

Left Out: 0.432+/-0.000 χ^2/NDF :1924979.0/24

Right Out: 0.408+/-0.000 χ^2/NDF : 4119651.8/37

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

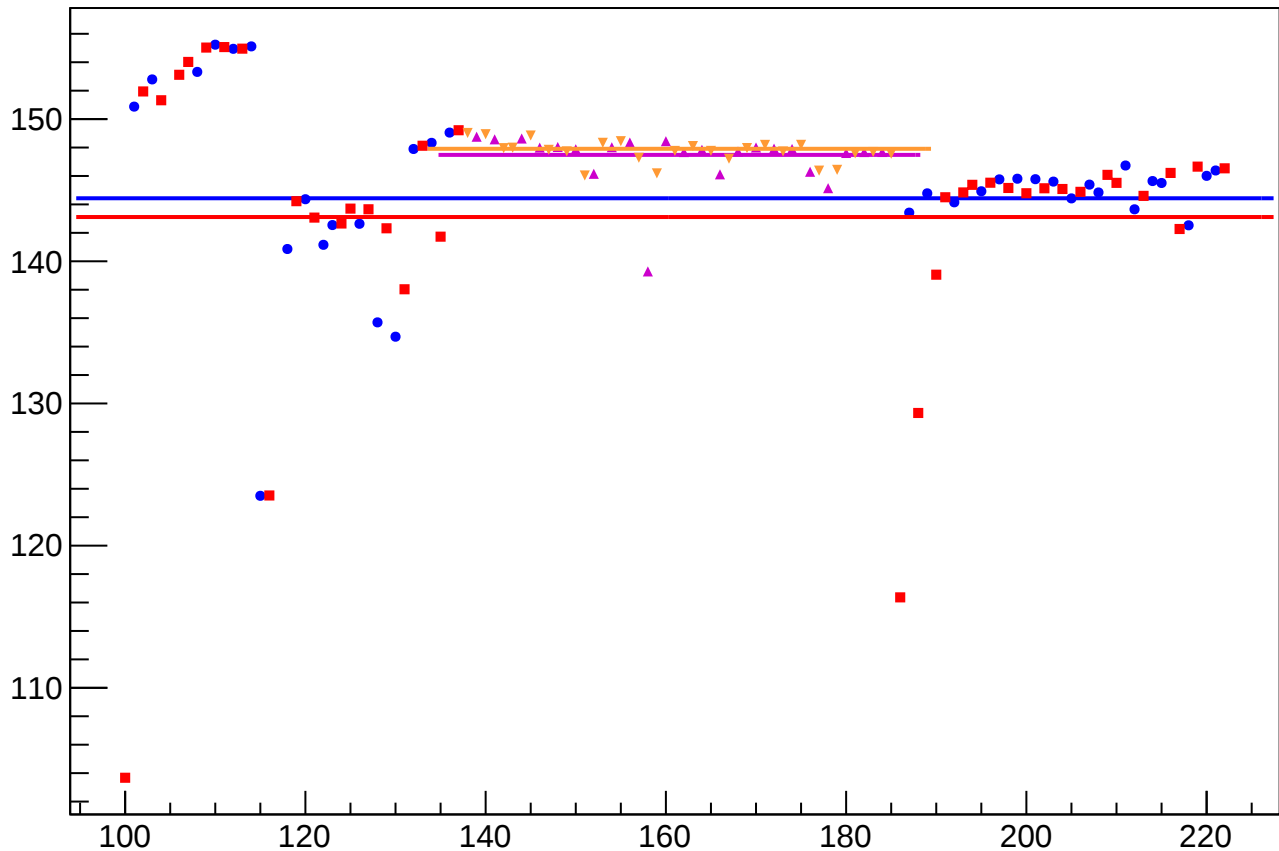
Right: 0.411+/-0.000 χ^2/NDF : 8335527.8/72

In: 0.425+/-0.000 χ^2/NDF :5770156.2/57

Out: 0.419+/-0.000 χ^2/NDF :6097959.2/62

All: 0.422+/-0.000 χ^2/NDF : 11874344.4/120

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.432 $\pm$ 0.000 χ^2 /NDF: 3726235767.1/34

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 143.113 $\pm$ 0.000 χ^2 /NDF: 7883659198.6/37

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

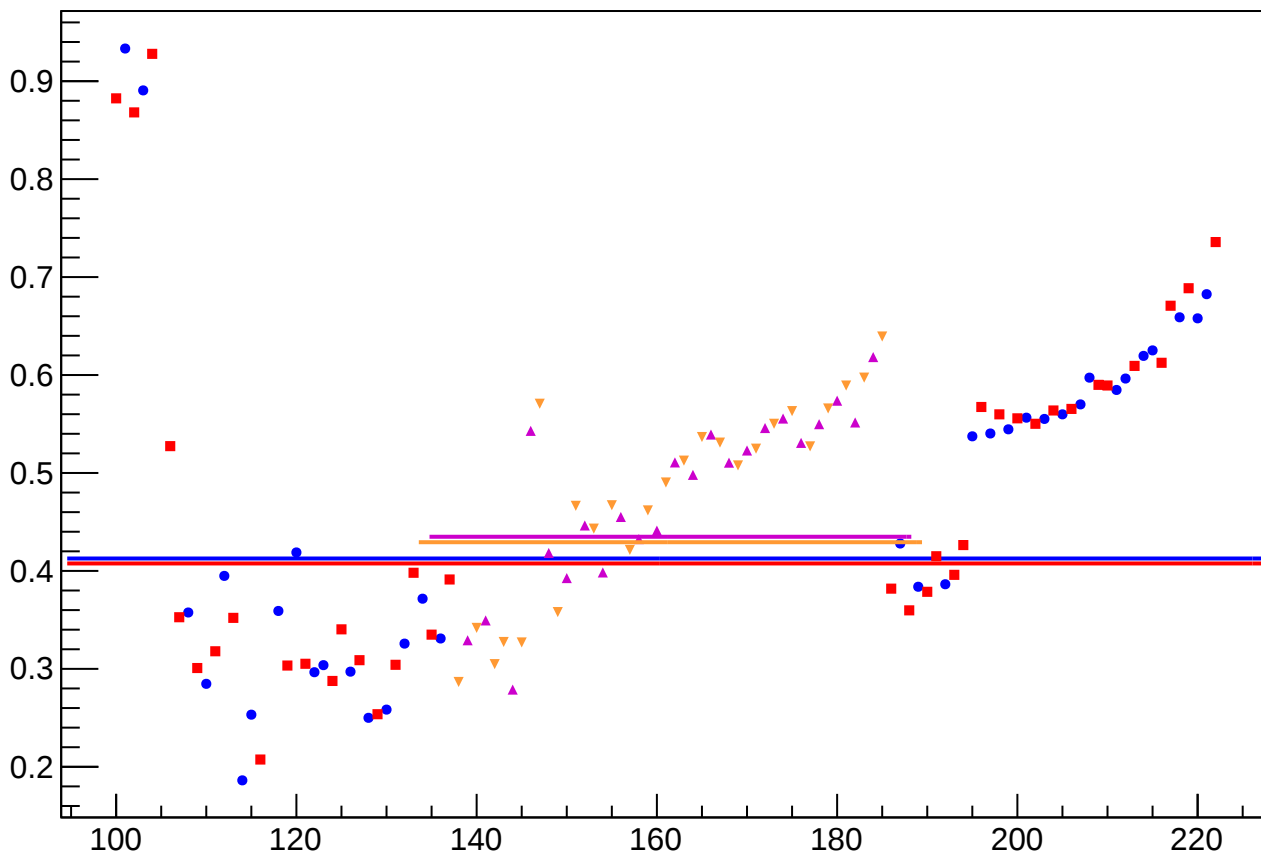
Right: 143.745 $\pm$ 0.000 χ^2 /NDF: 11697236605.1/72

In: 145.864 $\pm$ 0.000 χ^2 /NDF: 4490364988.4/57

Out: 145.357 $\pm$ 0.000 χ^2 /NDF: 9074583088.2/62

All: 145.601 $\pm$ 0.000 χ^2 /NDF: 13589297423.0/133

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.413+/-0.000 χ^2/NDF : 4245747.3/34

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.408+/-0.000 χ^2/NDF : 4122649.1/37

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

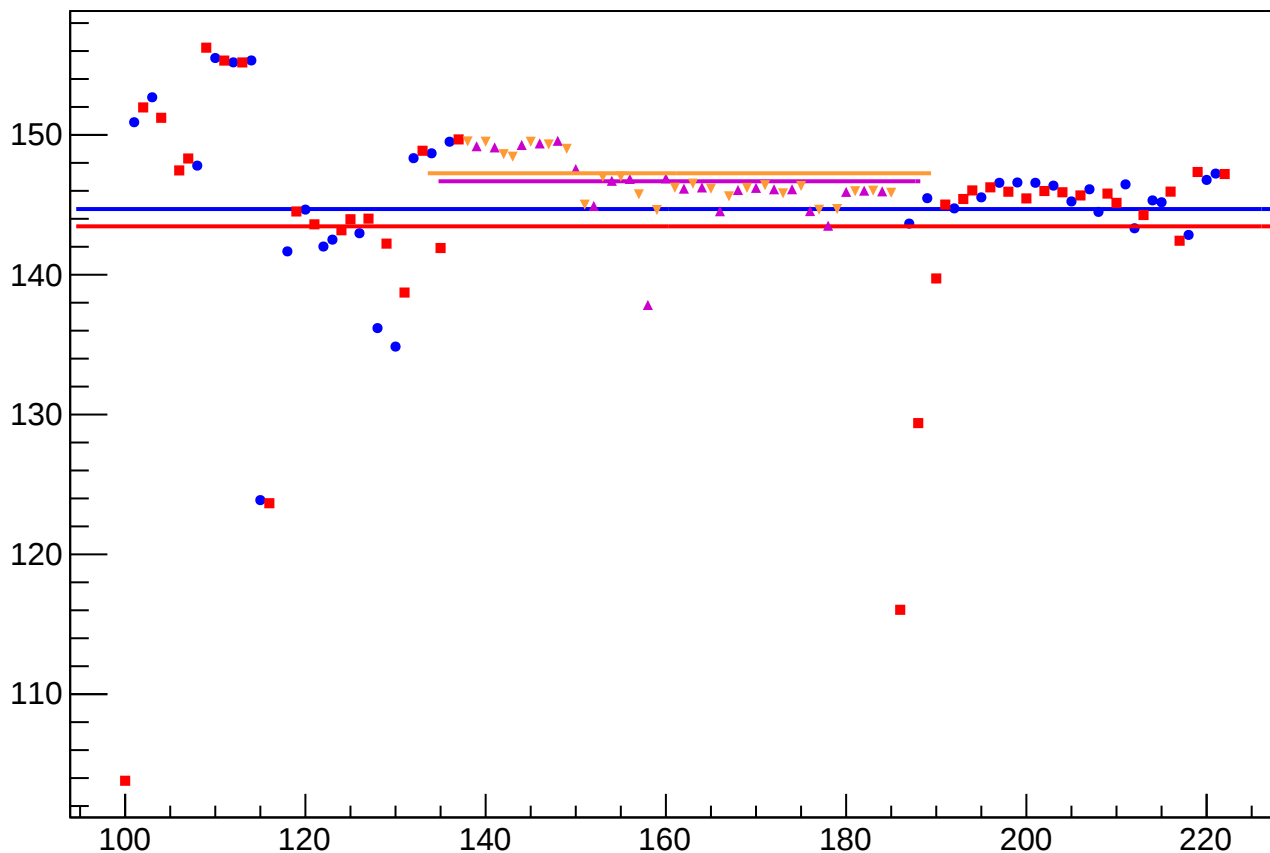
Right: 0.410+/-0.000 χ^2/NDF : 8370961.2/72

In: 0.423+/-0.000 χ^2/NDF :5776289.3/57

Out: 0.418+/-0.000 χ^2/NDF :6060351.8/62

All: 0.420+/-0.000 χ^2/NDF : 11842023.7/120

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.699 $\pm$ 0.000 χ^2 /NDF: 3249685125.9/34

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.462 $\pm$ 0.000 χ^2 /NDF: 7201243766.4/37

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

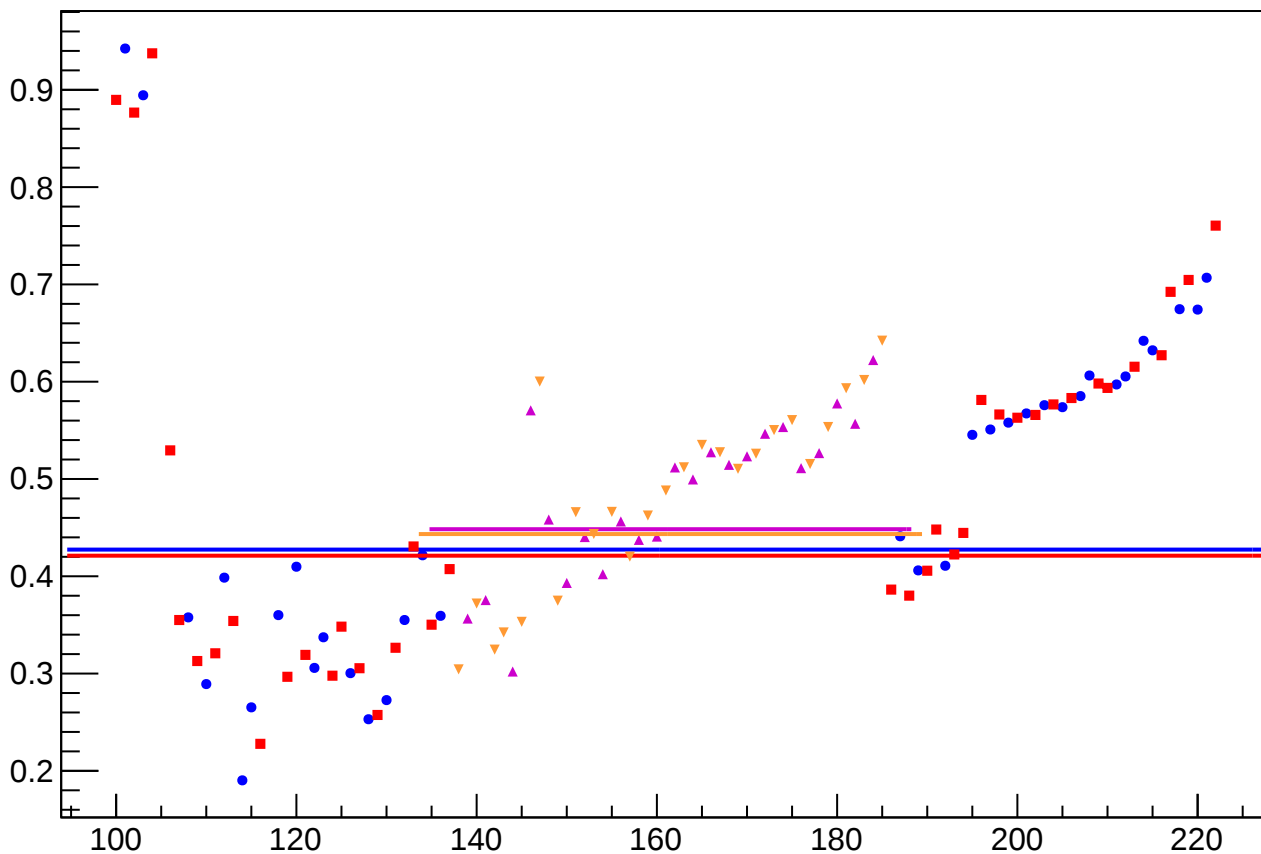
Right: 144.054 $\pm$ 0.000 χ^2 /NDF: 10522705760.7/72

In: 145.640 $\pm$ 0.000 χ^2 /NDF: 3972859671.4/57

Out: 145.246 $\pm$ 0.000 χ^2 /NDF: 8126830284.3/62

All: 145.435 $\pm$ 0.000 χ^2 /NDF: 12113482767.0/139

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.427 $\pm$ 0.000 χ^2 /NDF: 4106840.0/34

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.421 $\pm$ 0.000 χ^2 /NDF: 4000224.6/37

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

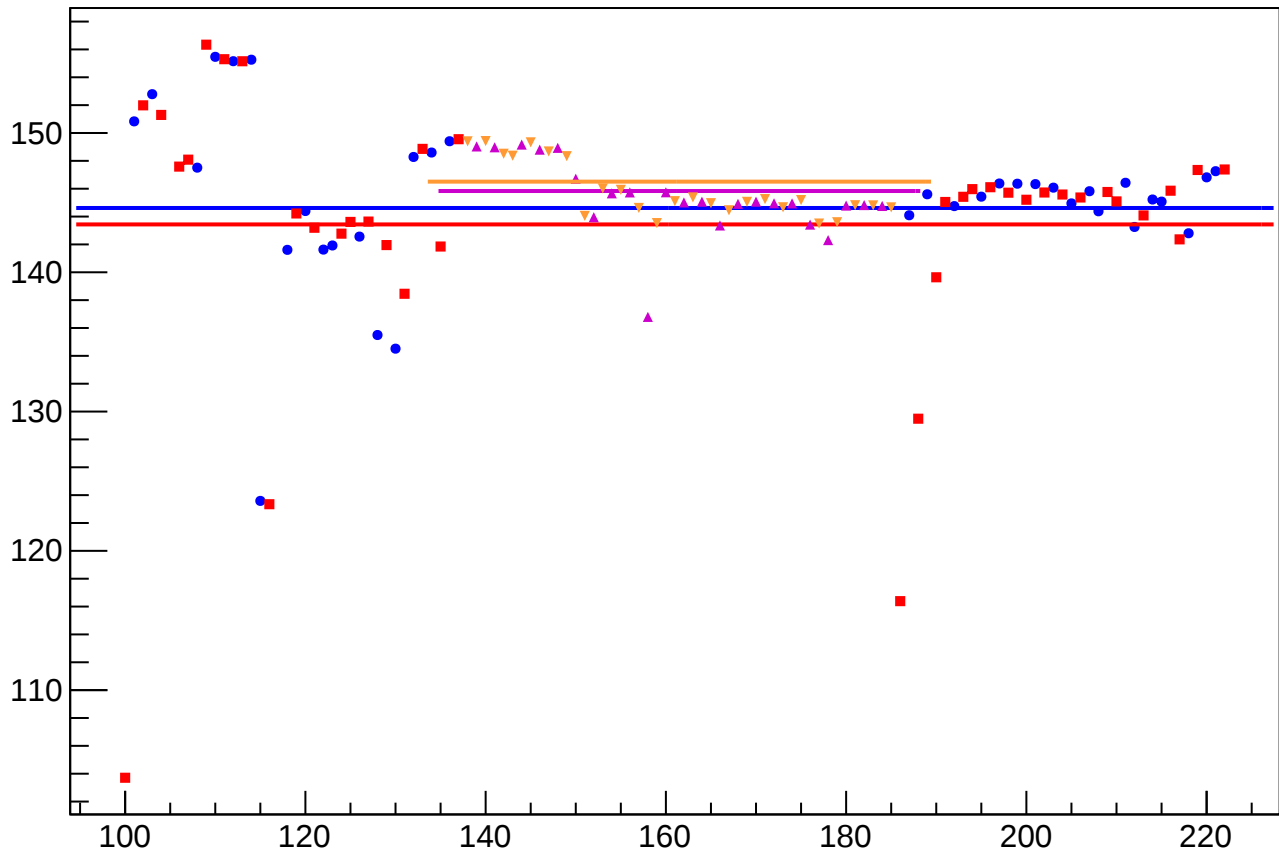
Right: 0.424 $\pm$ 0.000 χ^2 /NDF: 8110743.2/72

In: 0.437 $\pm$ 0.000 χ^2 /NDF:5264578.9/57

Out: 0.432 $\pm$ 0.000 χ^2 /NDF:5526205.2/62

All: 0.434 $\pm$ 0.000 χ^2 /NDF: 10796657.8/120

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.616 ± 0.000 $\chi^2/\text{NDF}: 3360287106.2/34$

Left Out: 146.508 ± 0.000 $\chi^2/\text{NDF}: 401248837.9/24$

Right Out: 143.436 ± 0.000 $\chi^2/\text{NDF}: 7154675893.5/37$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

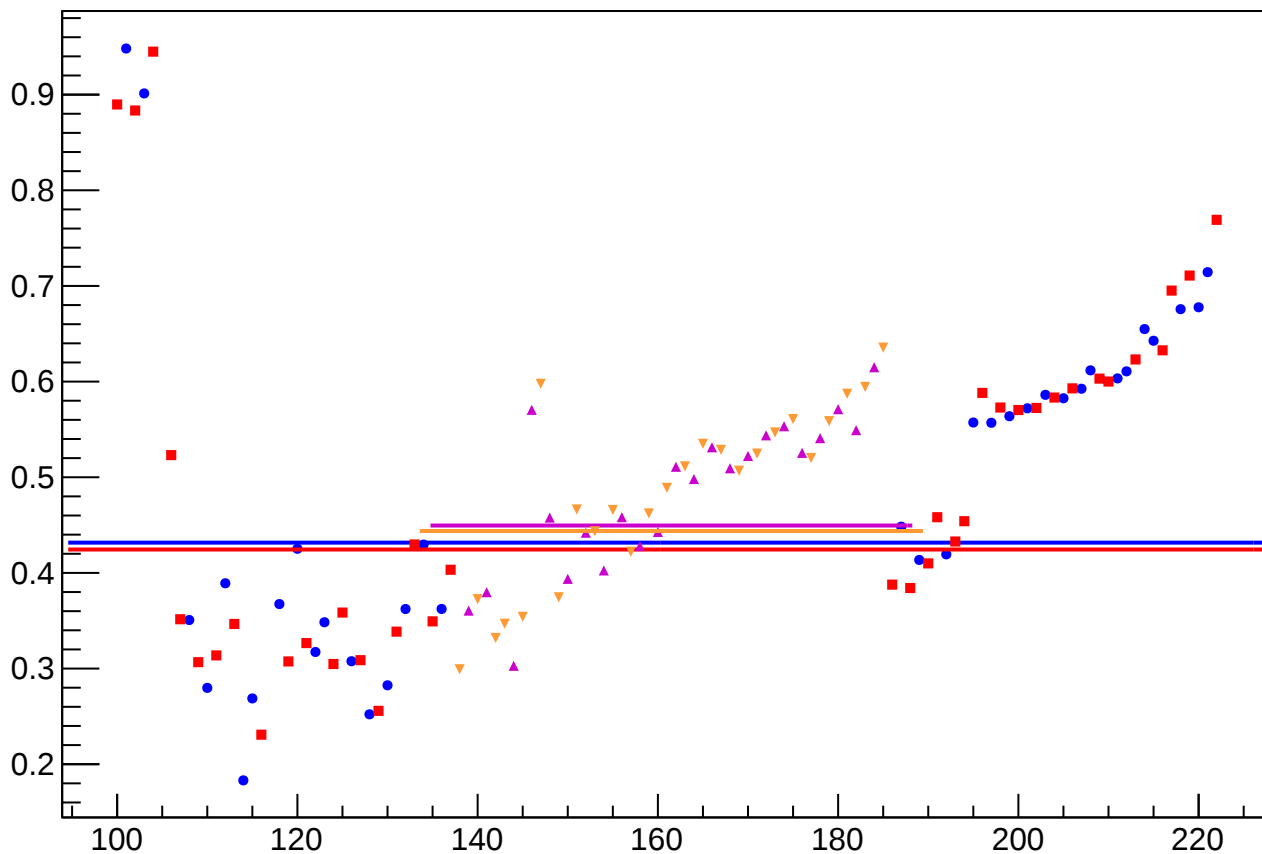
Right: 144.000 ± 0.000 $\chi^2/\text{NDF}: 10578944278.5/72$

In: 145.199 ± 0.000 $\chi^2/\text{NDF}: 4112880083.3/57$

Out: 144.893 ± 0.000 $\chi^2/\text{NDF}: 7986384607.1/62$

All: 145.040 ± 0.000 $\chi^2/\text{NDF}: 12107477651.0/100$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.432 $\pm$ 0.000 χ^2 /NDF: 4156304.9/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.424 $\pm$ 0.000 χ^2 /NDF: 4038436.3/37

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

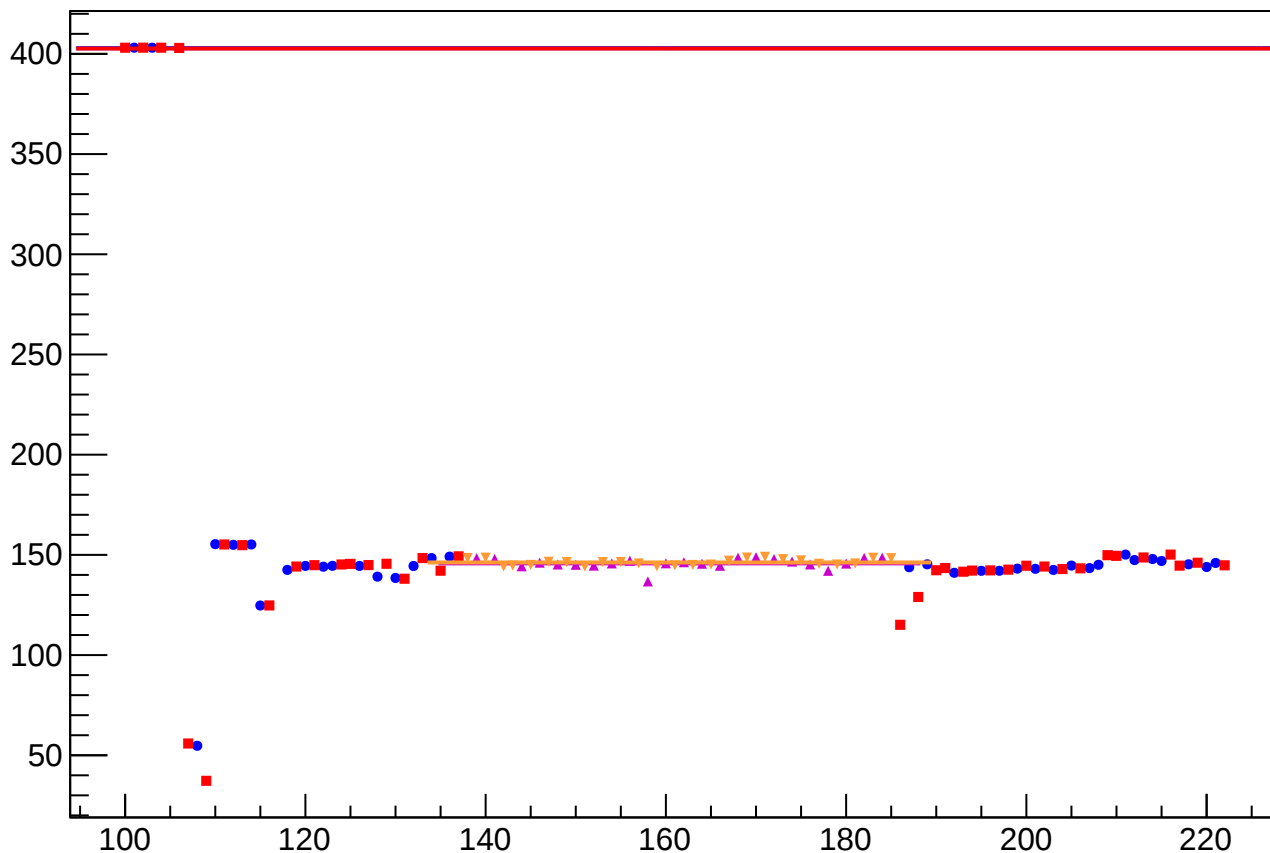
Right: 0.428 $\pm$ 0.000 χ^2 /NDF: 8199503.1/72

In: 0.440 $\pm$ 0.000 χ^2 /NDF:5275997.3/57

Out: 0.434 $\pm$ 0.000 χ^2 /NDF:5532986.7/62

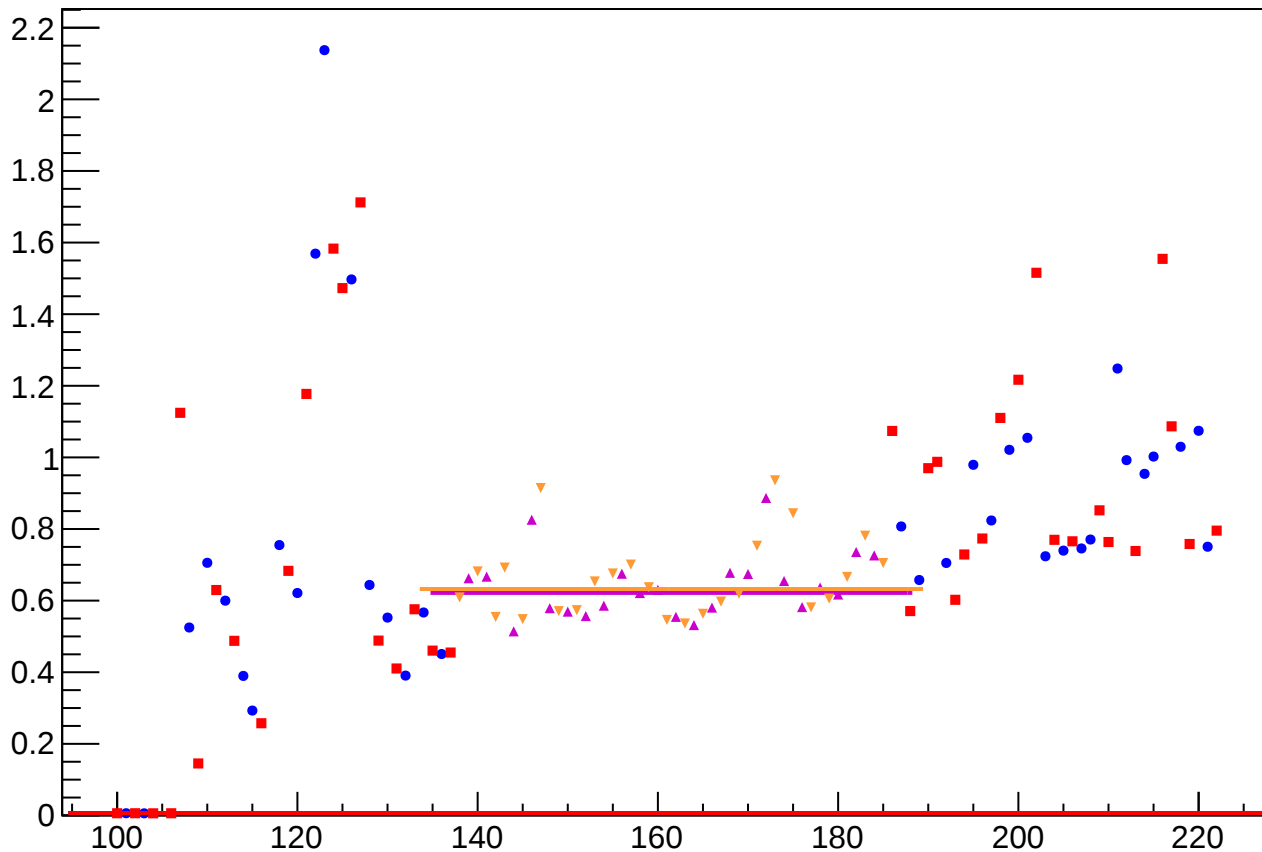
All: 0.437 $\pm$ 0.000 χ^2 /NDF: 10816574.9/120

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.842 $\pm$ 0.000	χ^2 /NDF: 2025738192277.0/34	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: 402.750 $\pm$ 0.000	χ^2 /NDF: 6321273010515.8
Right Out: 402.669 $\pm$ 0.000	χ^2 /NDF: 4295039761551.4/37	In: 402.551 $\pm$ 0.000	χ^2 /NDF: 4355919583938.4/57
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.409 $\pm$ 0.000	χ^2 /NDF: 6651352970013.0/67
		All: 402.476 $\pm$ 0.000	χ^2 /NDF: 110076093139.0/139

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 29483293.8/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 32008871.6/37

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

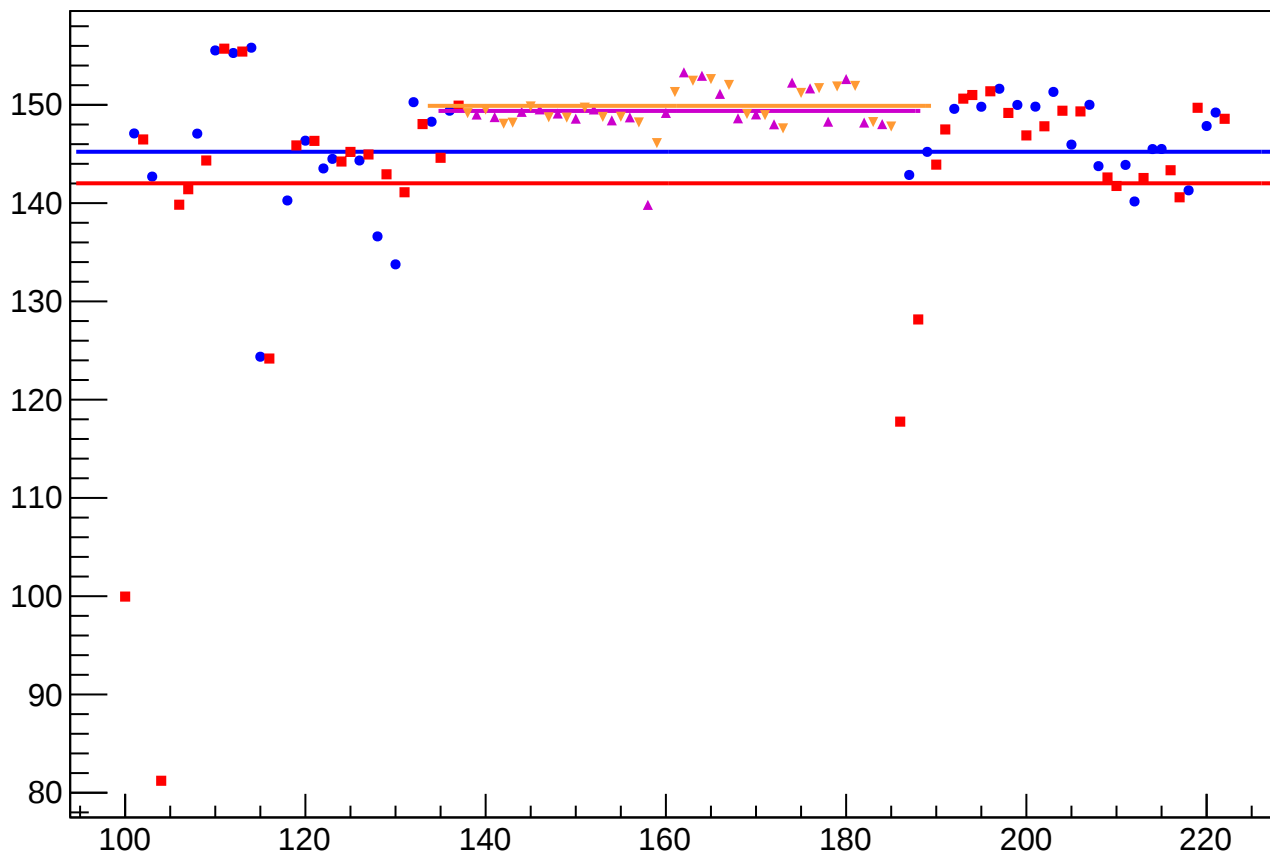
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 61492165.6/72

In: 0.007 $\pm$ 0.000 χ^2 /NDF:56540550.3/57

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:60673716.1/62

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 117214376.5/120

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.226 $\pm$ 0.000 χ^2 /NDF: 1395357119.1/34

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 142.017 $\pm$ 0.000 χ^2 /NDF: 3386350758.9/37

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

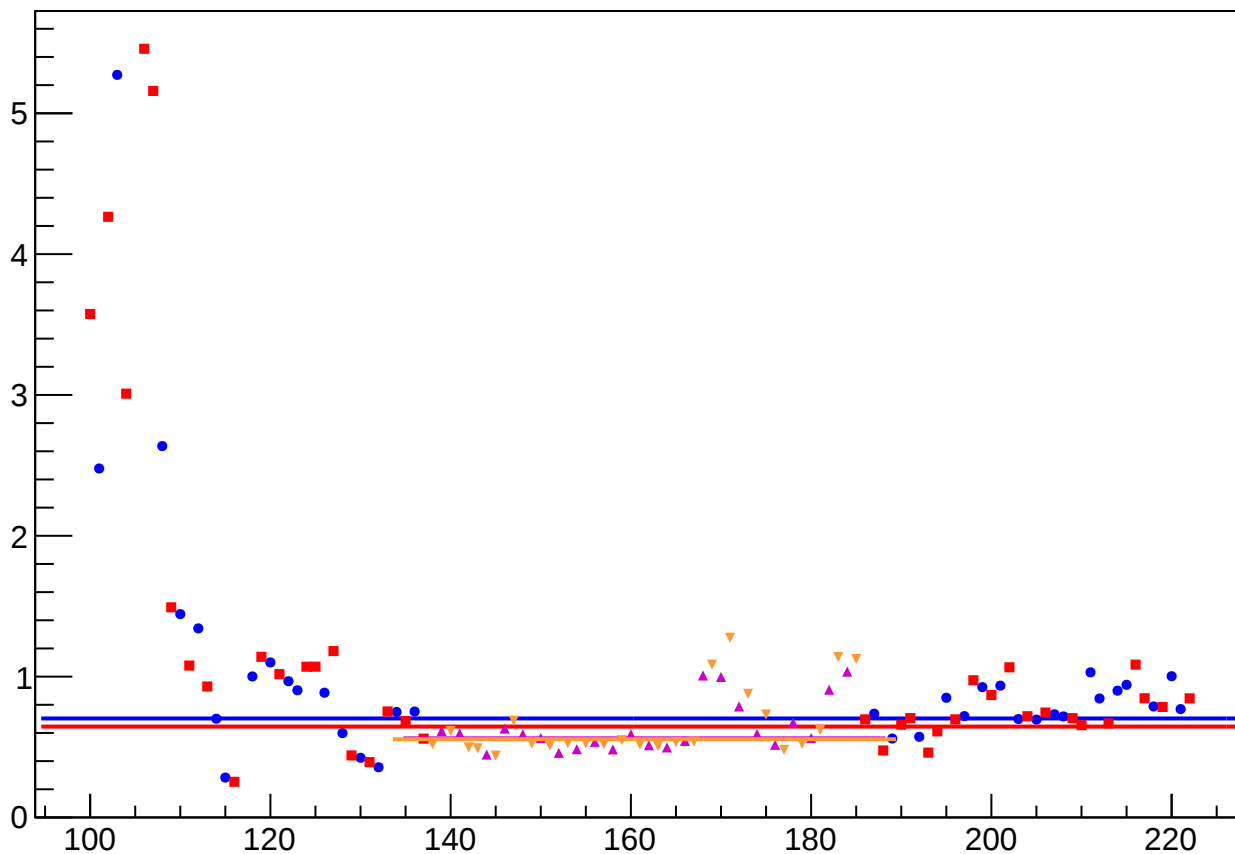
Right: 143.452 $\pm$ 0.000 χ^2 /NDF: 4942148861.3/72

In: 147.830 $\pm$ 0.000 χ^2 /NDF: 2134835930.7/57

Out: 146.690 $\pm$ 0.000 χ^2 /NDF: 4833086607.0/62

All: 147.224 $\pm$ 0.000 χ^2 /NDF: 7020033189.4

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.703 $\pm$ 0.000 χ^2 /NDF: 4546273.7/34

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.645 $\pm$ 0.000 χ^2 /NDF: 6050283.4/37

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

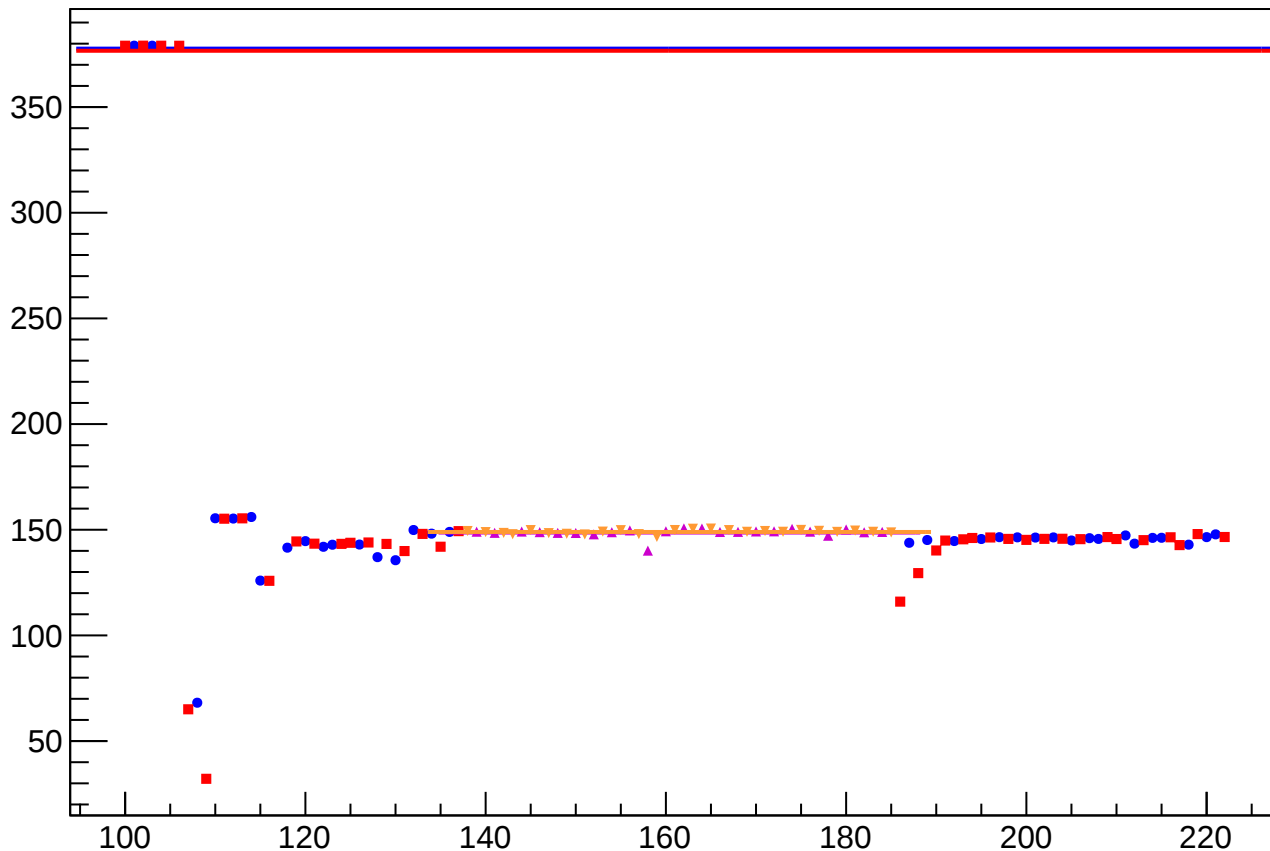
Right: 0.671 $\pm$ 0.000 χ^2 /NDF: 10699942.5/72

In: 0.614 $\pm$ 0.000 χ^2 /NDF:6555078.3/57

Out: 0.592 $\pm$ 0.000 χ^2 /NDF:8157267.0/62

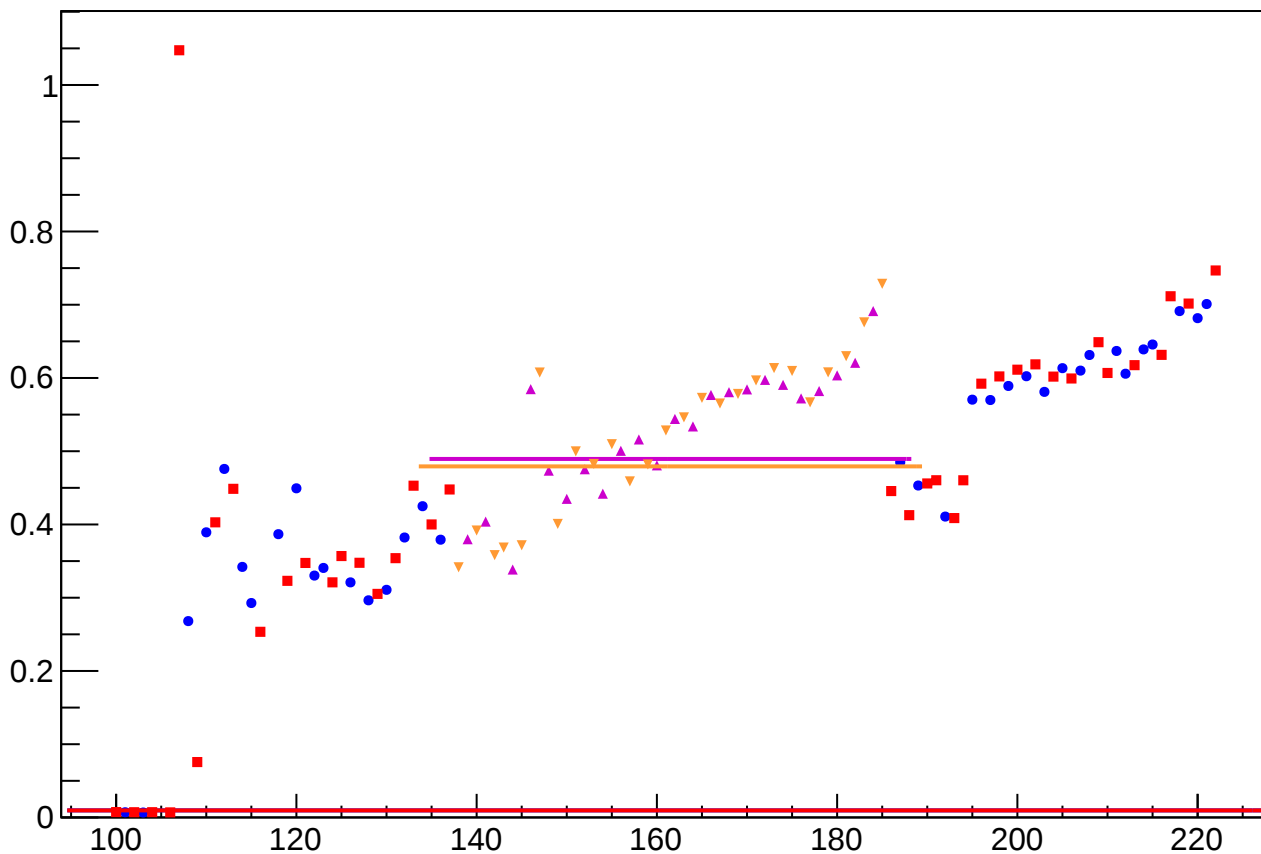
All: 0.603 $\pm$ 0.000 χ^2 /NDF: 14752609.8/120

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.655+/-0.000	χ^2/NDF : 4454088077992.8/34	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.118+/-0.000	χ^2/NDF : 15035876584641.0
Right Out: 376.647+/-0.000	χ^2/NDF : 10574564083980.7/37	In: 376.487+/-0.000	χ^2/NDF : 8022275764064.1/57
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.535+/-0.000	χ^2/NDF : 14428916332227.7
		All: 375.980+/-0.000	χ^2/NDF : 224576799517.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 33735398.0/34

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.010+/-0.000 χ^2/NDF : 34605383.7/37

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

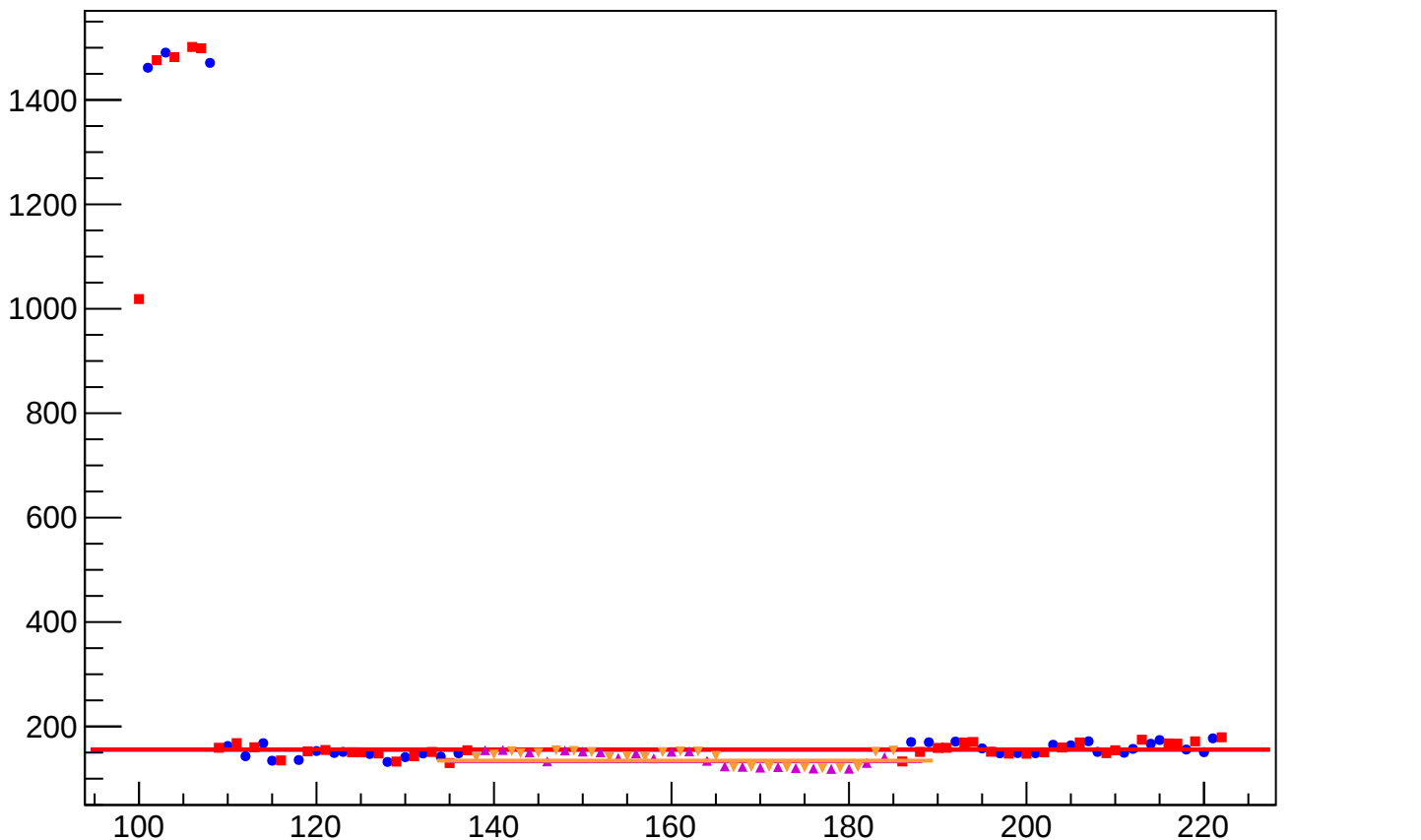
Right: 0.010+/-0.000 χ^2/NDF : 68340810.2/72

In: 0.012+/-0.000 χ^2/NDF :66141985.0/57

Out: 0.012+/-0.000 χ^2/NDF :68920179.9/62

All: 0.012+/-0.000 χ^2/NDF : 135062717.7/120

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.278+/-0.000 χ^2/NDF : 26314408476.0/34

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 156.270+/-0.000 χ^2/NDF : 35647996606.7/37

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

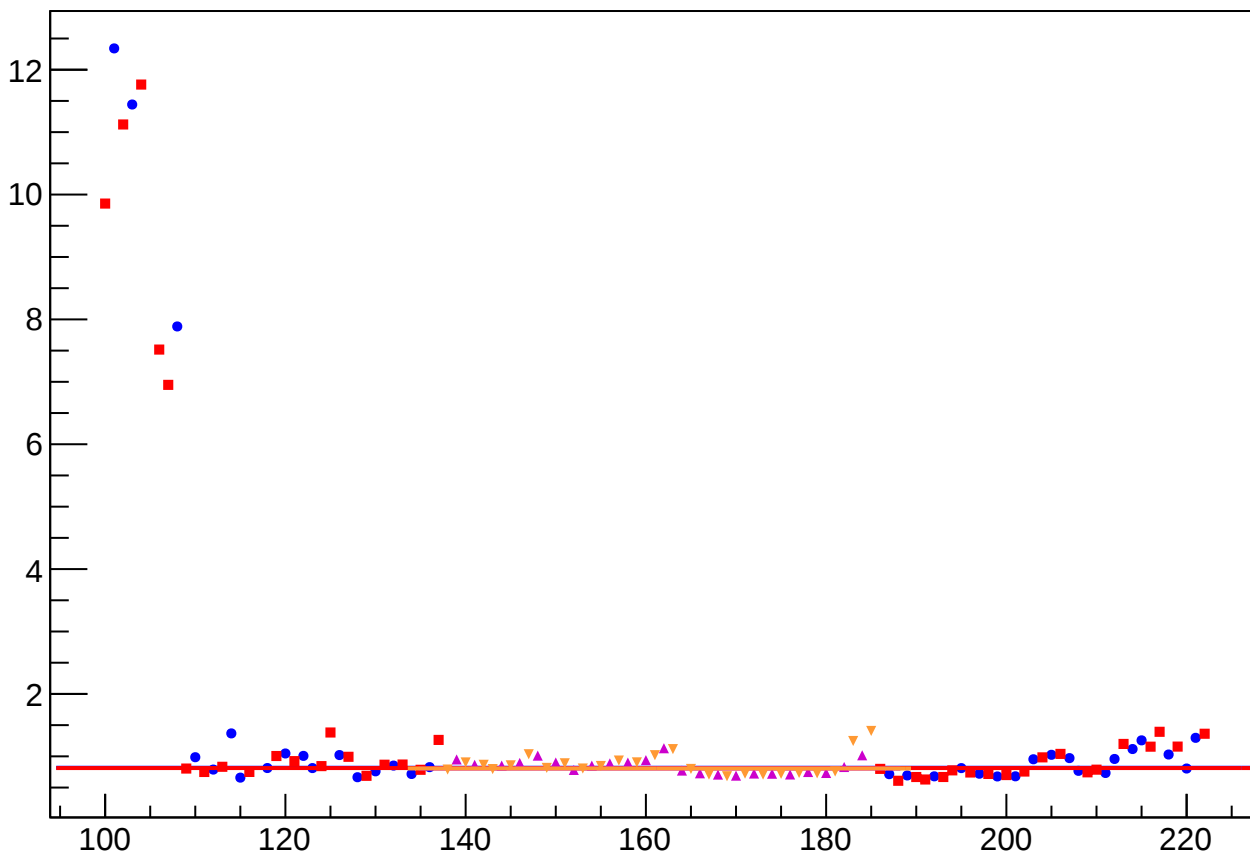
Right: 155.785+/-0.000 χ^2/NDF : 61973275742.2/72

In: 144.023+/-0.000 χ^2/NDF : 35949786435.0/57

Out: 145.141+/-0.000 χ^2/NDF : 45476642492.6/62

All: 144.594+/-0.000 χ^2/NDF : 81454684682.0/110

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.817 $\pm$ 0.000 χ^2 /NDF: 3467246.9/34

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.812 $\pm$ 0.000 χ^2 /NDF: 4169438.8/37

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

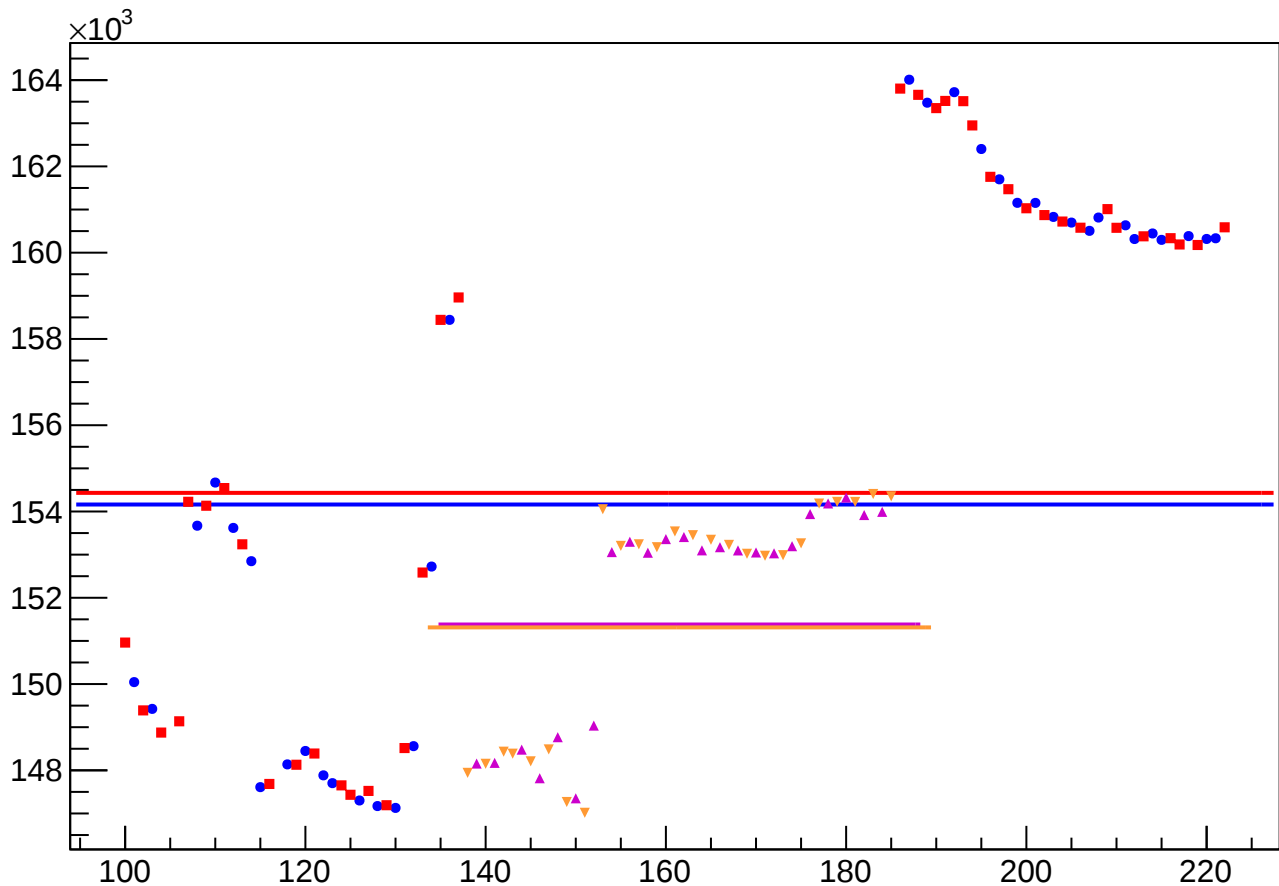
Right: 0.815 $\pm$ 0.000 χ^2 /NDF: 7637206.7/72

In: 0.811 $\pm$ 0.000 χ^2 /NDF:3951176.3/57

Out: 0.809 $\pm$ 0.000 χ^2 /NDF:4860910.7/62

All: 0.810 $\pm$ 0.000 χ^2 /NDF: 8812213.8/120

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 154161.968+/-0.052

χ^2/NDF : 12739264545.3/34

Left Out: 151313.284+/-0.049

χ^2/NDF : 3153768134.8/24

Right Out: 154431.819+/-0.049

χ^2/NDF : 13390002153.4/37

Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

Left: 151345.082+/-0.035

χ^2/NDF : 5518562148.3/4

Right: 154303.358+/-0.036

χ^2/NDF : 26143518131.1/4

In: 152756.166+/-0.036

χ^2/NDF : 16563834897.8/5

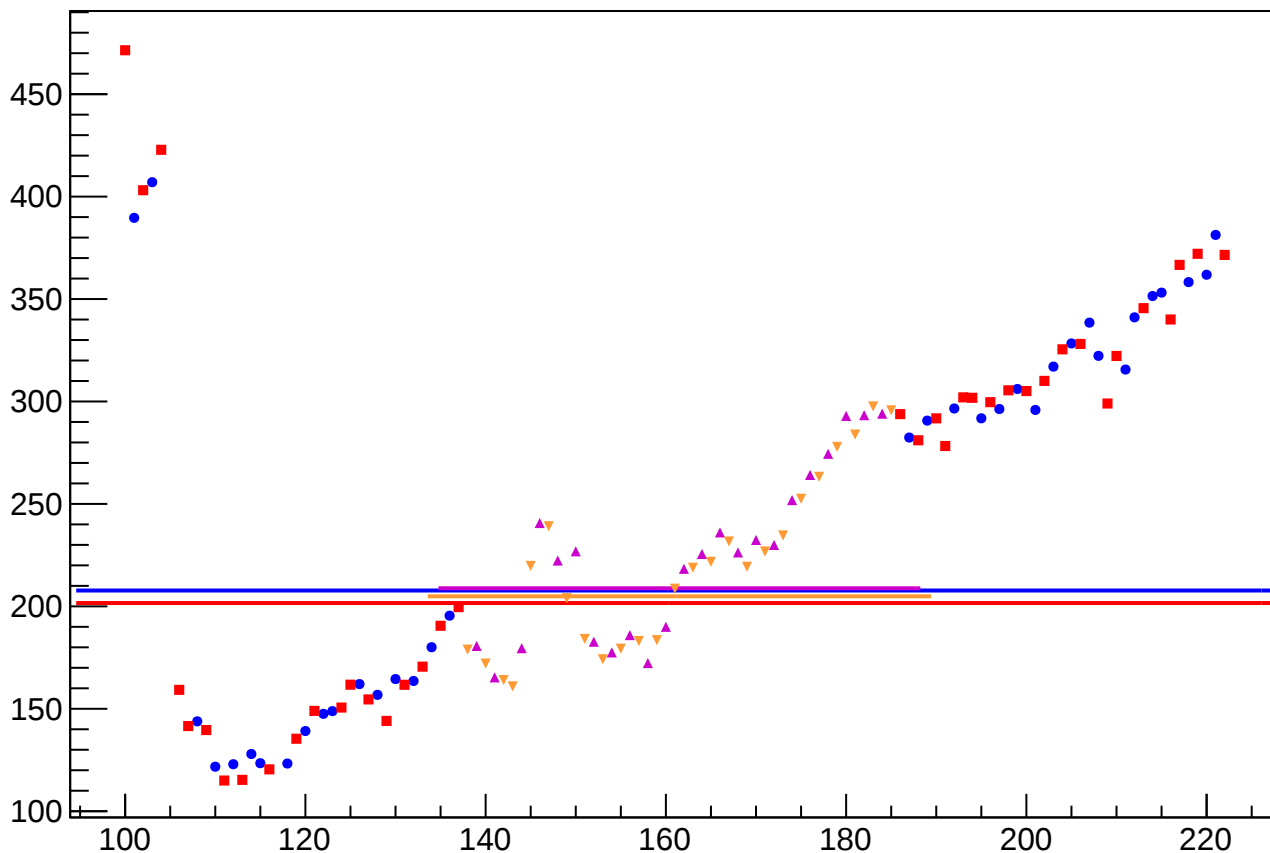
Out: 152852.335+/-0.035

χ^2/NDF : 18568792057.4/5

All: 152806.608+/-0.025

χ^2/NDF : 351362902.1/10

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 207.732 $\pm$ 0.037 χ^2 /NDF: 5925650.1/34

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 201.625 $\pm$ 0.035 χ^2 /NDF: 6407967.5/37

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

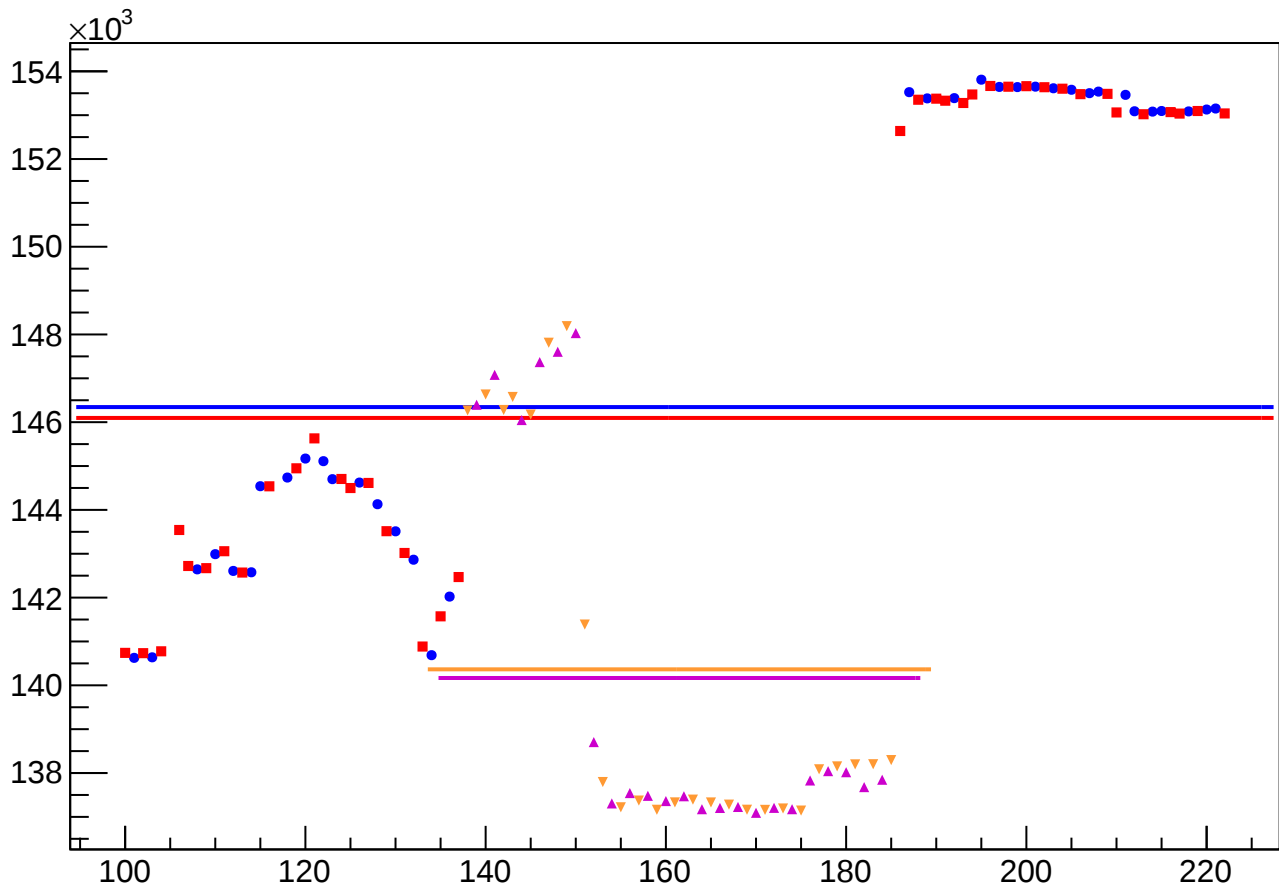
Right: 204.532 $\pm$ 0.025 χ^2 /NDF: 12348211.4/72

In: 208.278 $\pm$ 0.026 χ^2 /NDF:6928027.9/57

Out: 203.284 $\pm$ 0.024 χ^2 /NDF:7468812.5/62

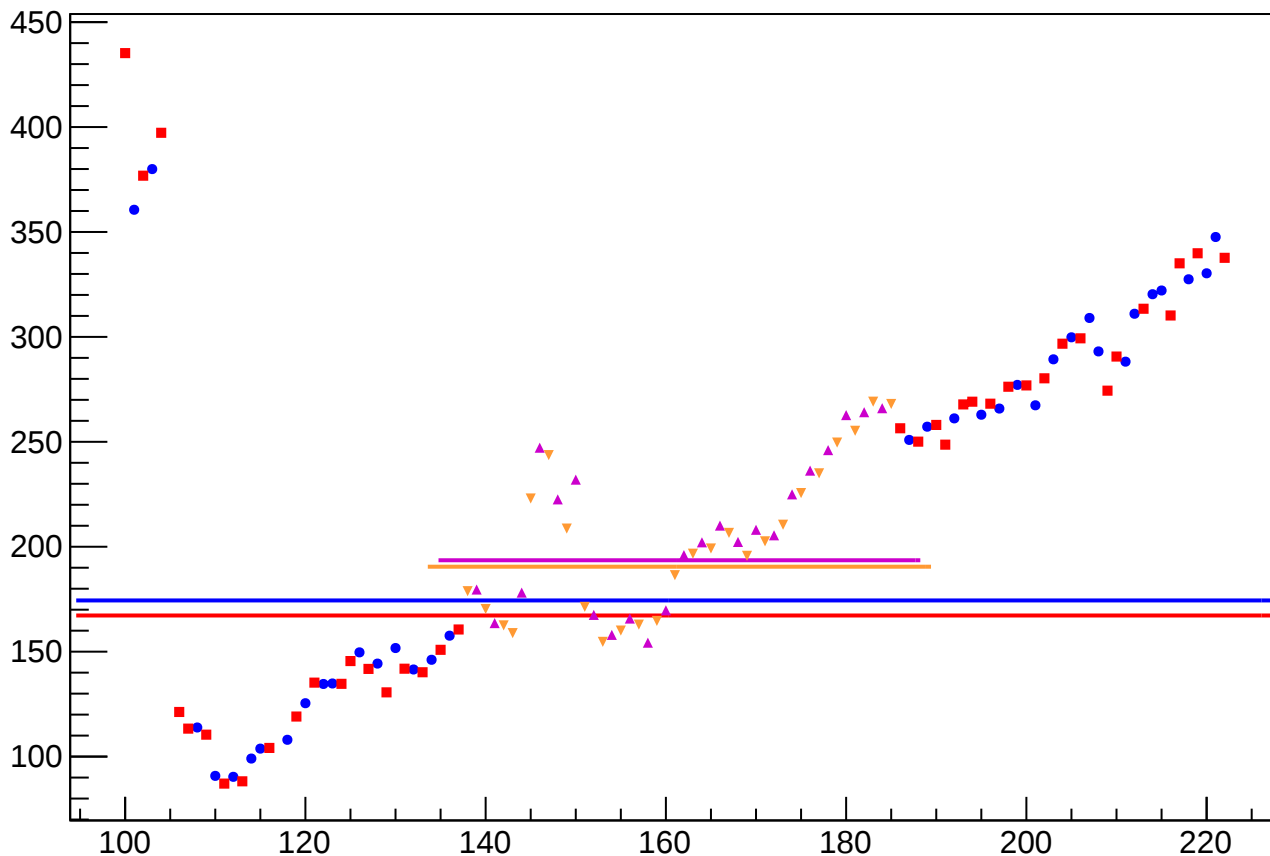
All: 205.658 $\pm$ 0.018 χ^2 /NDF: 14416598.8/12

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146344.208 $\pm$ 0.044	χ^2 /NDF: 11207781079.8/34	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: 146212.740 $\pm$ 0.030	χ^2 /NDF: 23583495814.0
Right Out: 146096.602 $\pm$ 0.042	χ^2 /NDF: 12359170663.1/37	In: 143463.376 $\pm$ 0.032	χ^2 /NDF: 28280510903.8/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143462.743 $\pm$ 0.031	χ^2 /NDF: 29722221143.0/5
		All: 143463.042 $\pm$ 0.022	χ^2 /NDF: 580027322

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 174.410 $\pm$ 0.031 χ^2 /NDF: 7258724.1/34

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF: 950233.2/24

Right Out: 167.237 $\pm$ 0.029 χ^2 /NDF: 7862640.0/37

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

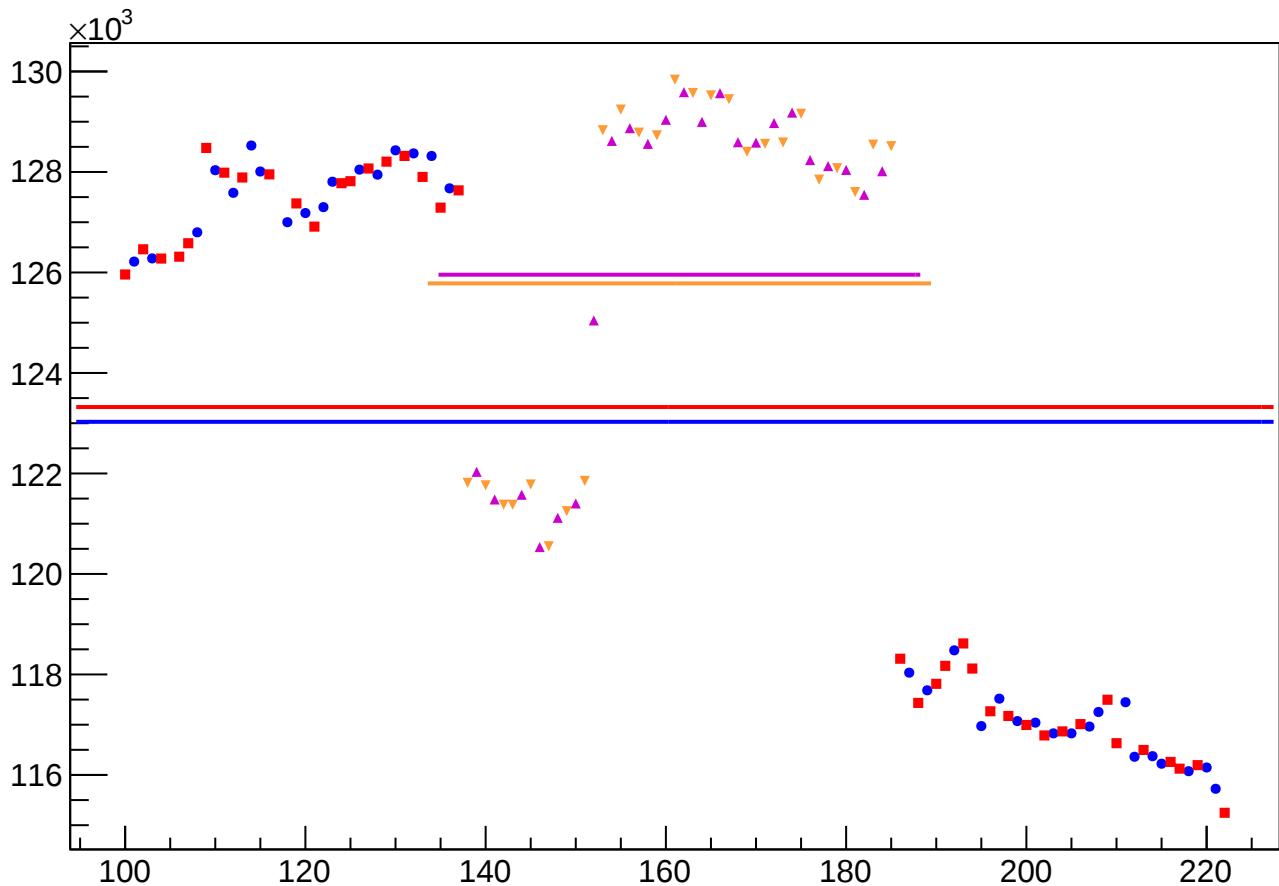
Right: 170.602 $\pm$ 0.021 χ^2 /NDF: 15149130.8/72

In: 183.340 $\pm$ 0.023 χ^2 /NDF: 8396206.3/57

Out: 177.920 $\pm$ 0.022 χ^2 /NDF: 9098636.3/62

All: 180.479 $\pm$ 0.016 χ^2 /NDF: 17524377.3/12

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123027.877+/-0.044

χ^2/NDF : 14962787322.2/34

Left Out: 125782.764+/-0.044

χ^2/NDF : 6729761889.8/24

Right Out: 123322.221+/-0.042

χ^2/NDF : 15941506019.0/37

Left In: 125955.637+/-0.045

χ^2/NDF : 5804088930.1/22

Left: 125867.639+/-0.031

χ^2/NDF : 12541428458.9/24

Right: 123181.618+/-0.030

χ^2/NDF : 30928072345.6/24

In: 124452.639+/-0.031

χ^2/NDF : 22958810855.6/5

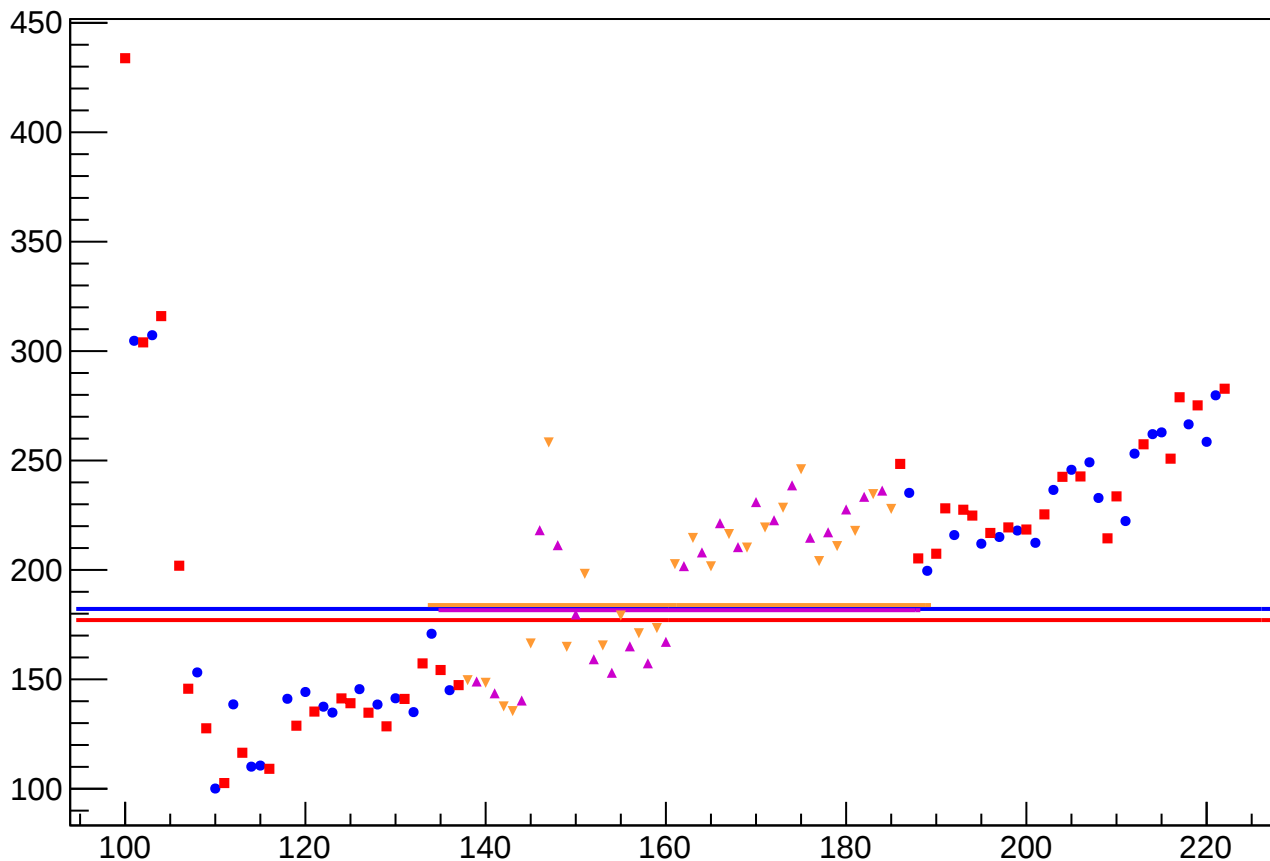
Out: 124486.956+/-0.030

χ^2/NDF : 24317909154.3/5

All: 124470.345+/-0.022

χ^2/NDF : 472773419.0/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 182.171+/-0.031 χ^2/NDF : 3169831.8/34

Left Out: 183.947+/-0.031 χ^2/NDF :1123194.0/24

Right Out: 177.081+/-0.029 χ^2/NDF : 3788933.8/37

Left In: 181.596+/-0.032 χ^2/NDF :1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

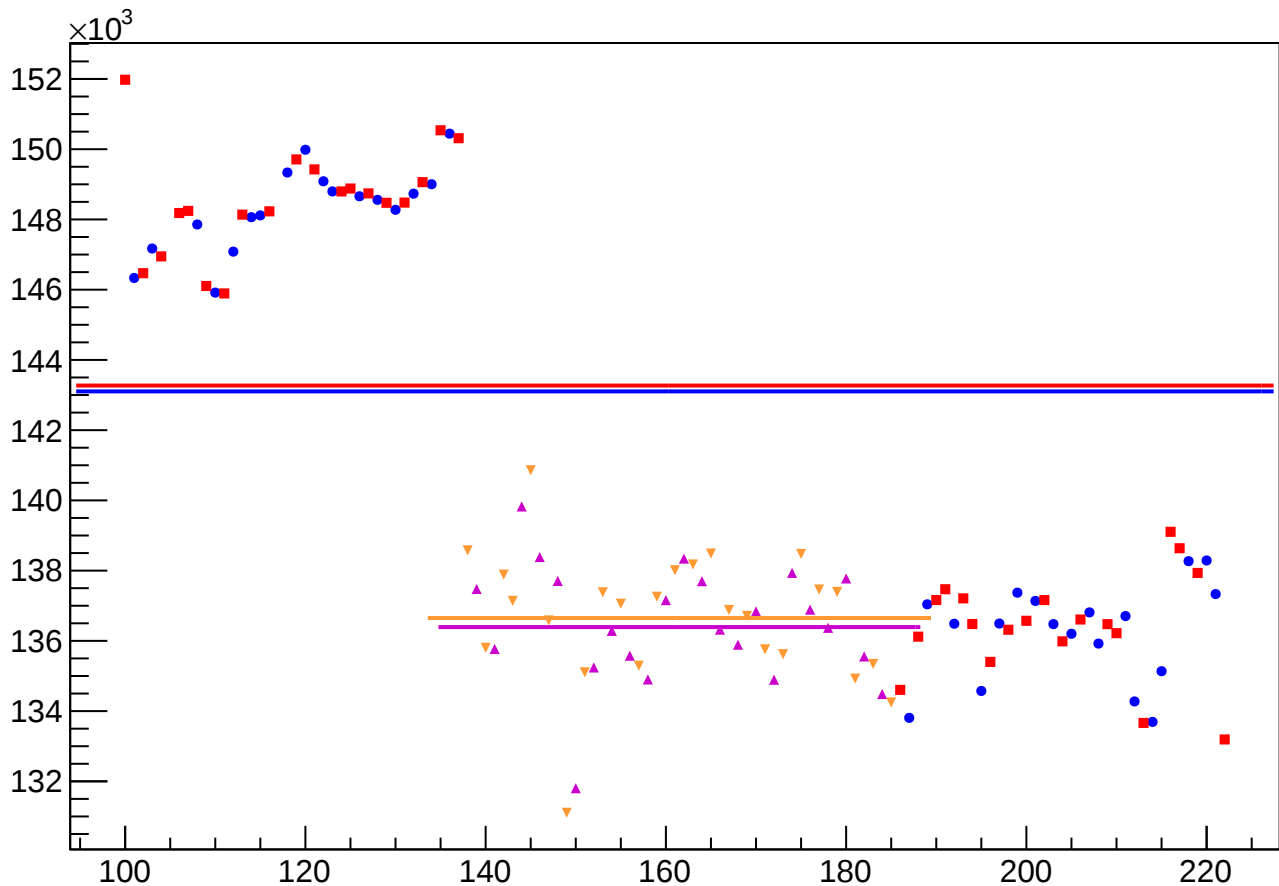
Right: 179.513+/-0.021 χ^2/NDF : 6972982.5/72

In: 181.891+/-0.022 χ^2/NDF :4273525.2/57

Out: 180.331+/-0.021 χ^2/NDF :4937765.2/62

All: 181.086+/-0.015 χ^2/NDF : 9213859.6/120

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143104.130 $\pm$ 0.061

χ^2 /NDF: 10208326065.5/34

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: 143191.667 $\pm$ 0.042

χ^2 /NDF: 20981880010.0

Right Out: 143270.061 $\pm$ 0.058

χ^2 /NDF: 10769699283.2/37

In: 139989.318 $\pm$ 0.045

χ^2 /NDF: 16458495972.4/5

Out: 140311.960 $\pm$ 0.043

χ^2 /NDF: 17502522488.9

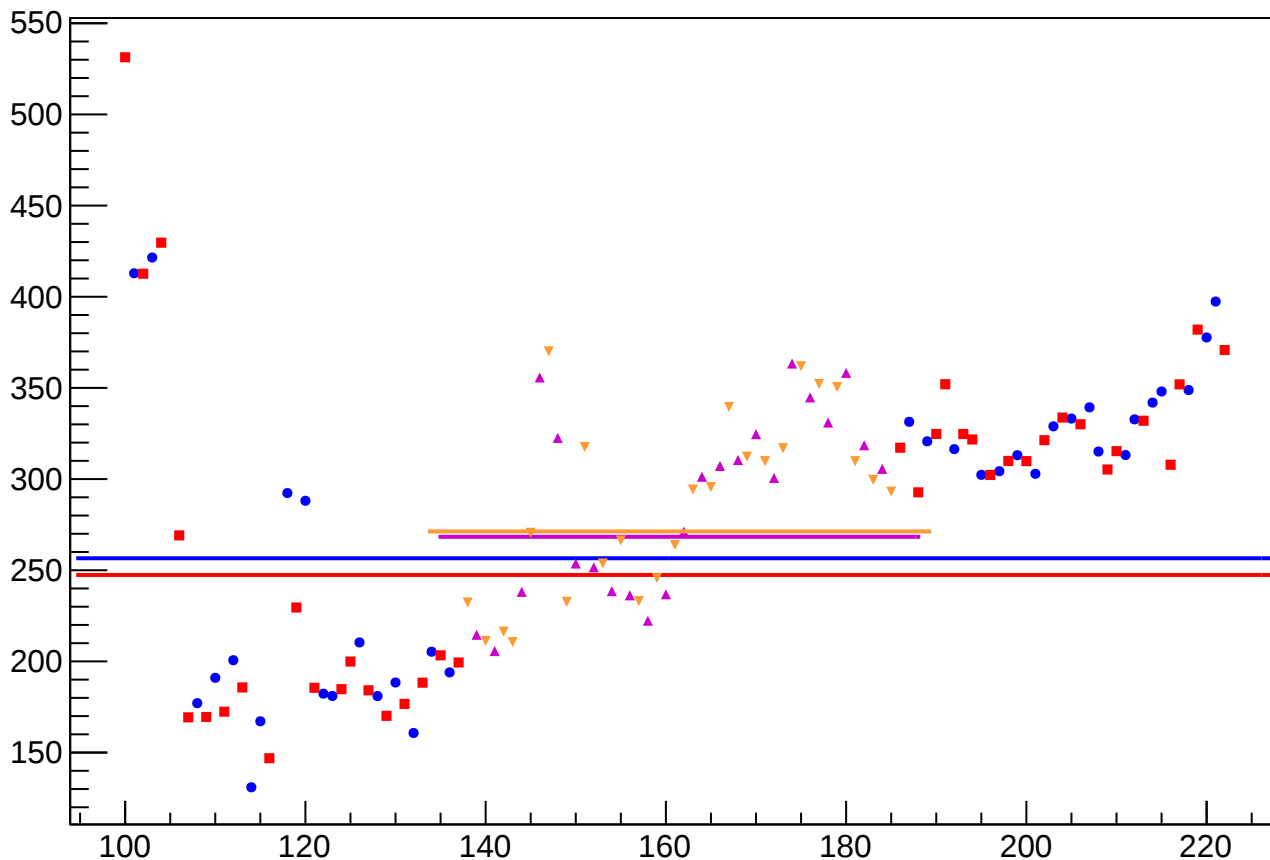
Left In: 136392.188 $\pm$ 0.066

χ^2 /NDF: 701986841.4/22

All: 140156.990 $\pm$ 0.031

χ^2 /NDF: 339878065

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 256.568+/-0.043 χ^2/NDF : 3135322.0/34

Left Out: 271.295+/-0.046 χ^2/NDF :1064485.7/24

Right Out: 247.419+/-0.041 χ^2/NDF : 3452372.5/37

Left In: 268.344+/-0.047 χ^2/NDF :1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

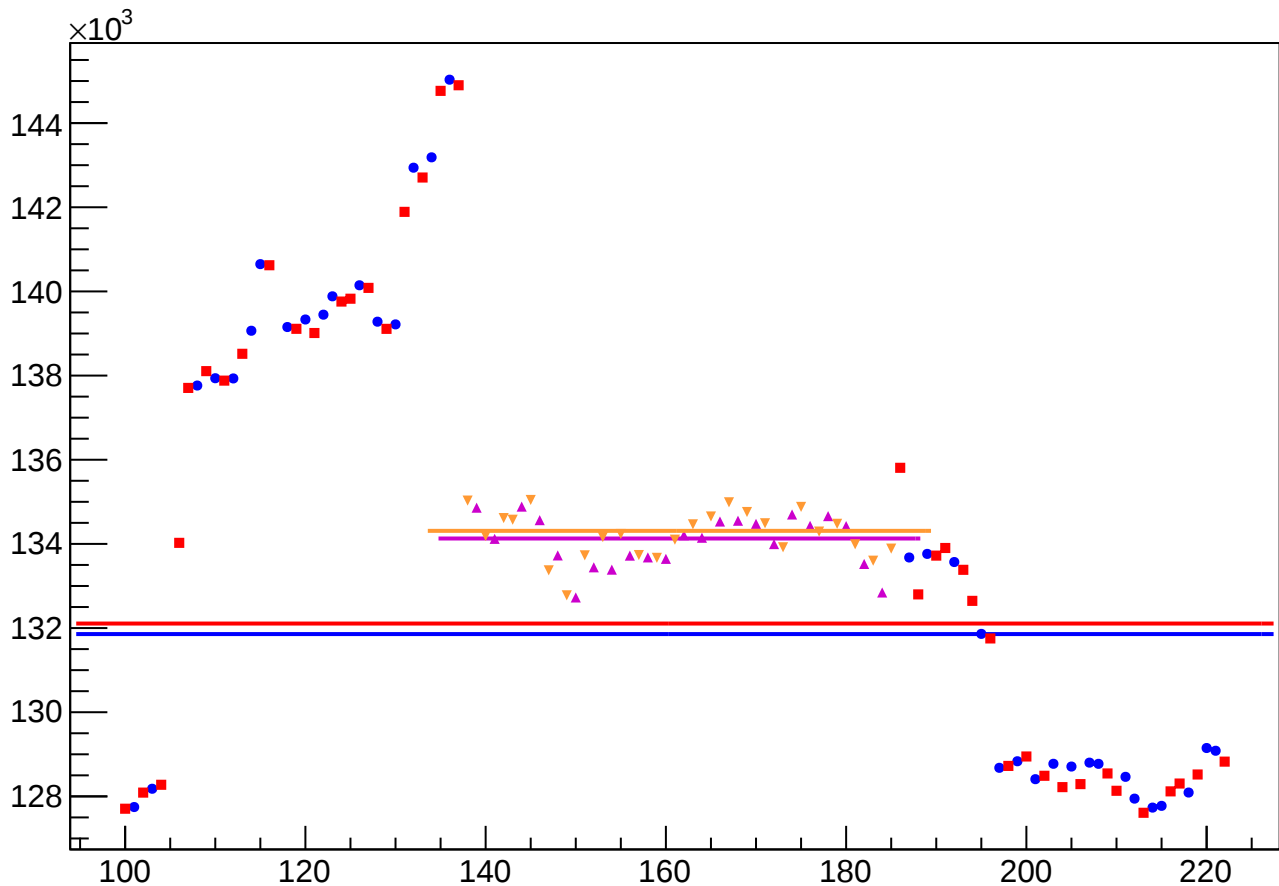
Right: 251.741+/-0.030 χ^2/NDF : 6611135.3/72

In: 262.033+/-0.032 χ^2/NDF :4246838.3/57

Out: 258.089+/-0.031 χ^2/NDF :4667852.3/62

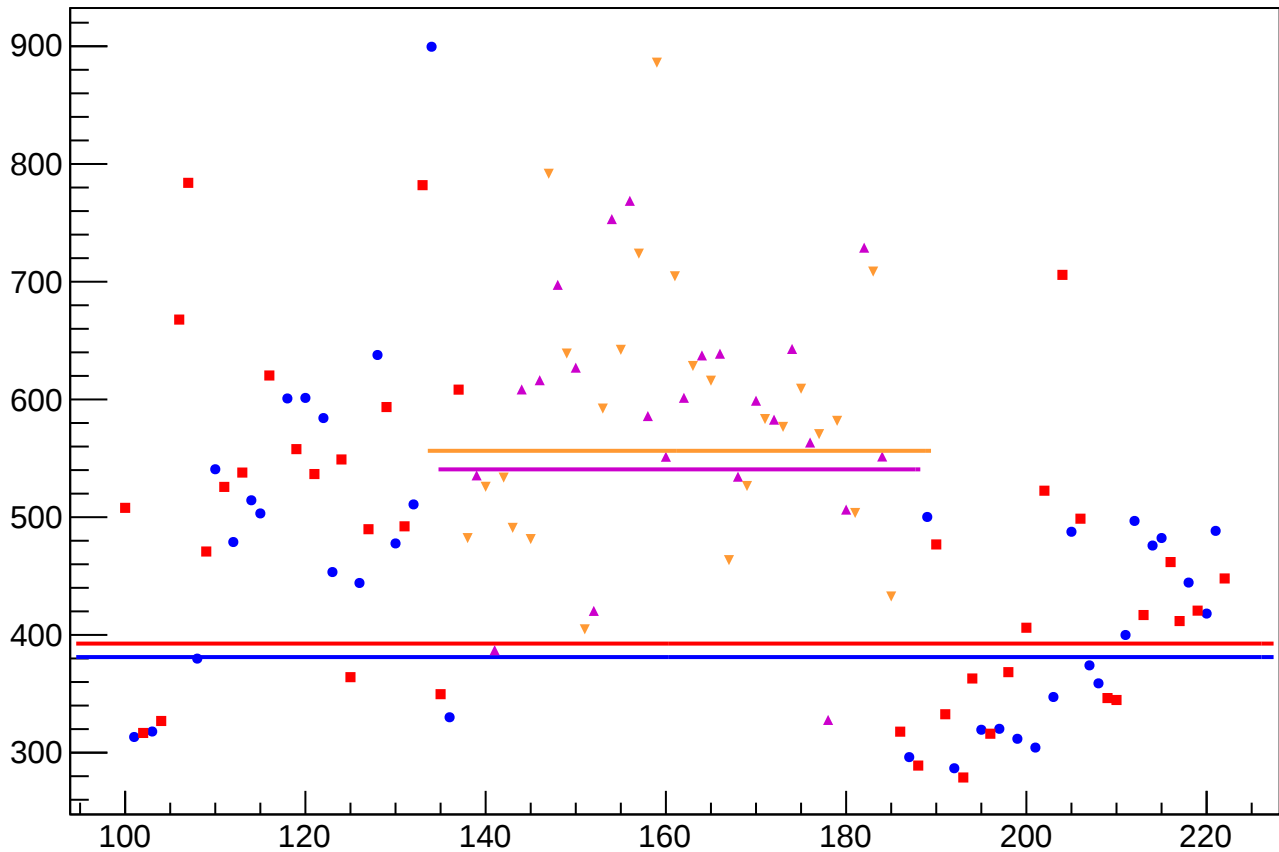
All: 259.983+/-0.022 χ^2/NDF : 8922695.3/120

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 131857.152 $\pm$ 0.098	χ^2/NDF : 2880377638.6/34	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: 131979.917 $\pm$ 0.070	χ^2/NDF : 5025380497.2/6
Right Out: 132107.412 $\pm$ 0.100	χ^2/NDF : 2141787637.4/37	In: 132587.428 $\pm$ 0.081	χ^2/NDF : 3069471680.2/57
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 132858.072 $\pm$ 0.081	χ^2/NDF : 2323935076.2/6
		All: 132722.135 $\pm$ 0.057	χ^2/NDF : 539903045

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 381.183 ± 0.069 $\chi^2/\text{NDF}: 1621489.0/34$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 392.645 ± 0.070 $\chi^2/\text{NDF}: 1996811.6/37$

Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

Left: 548.687 ± 0.070 $\chi^2/\text{NDF}: 2423723.9/47$

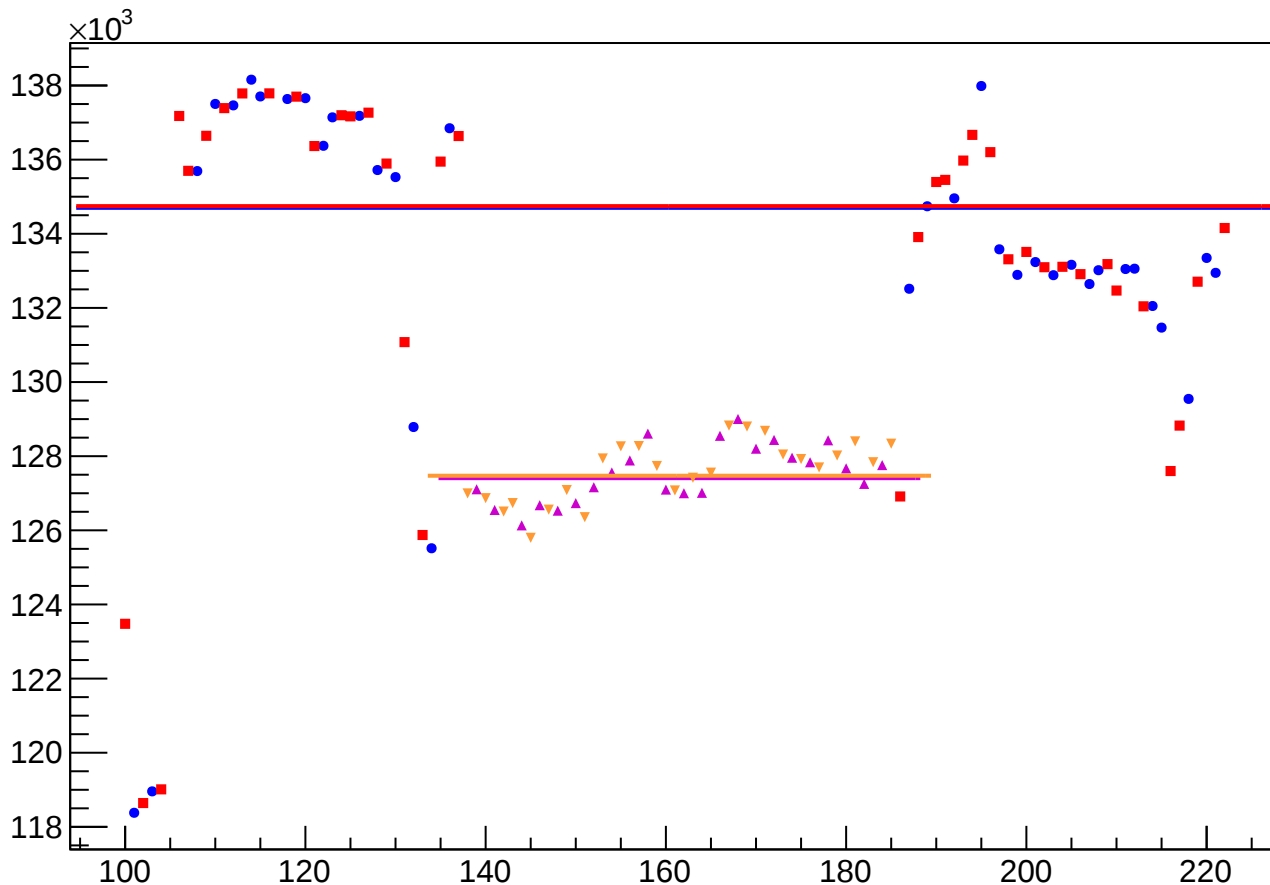
Right: 386.805 ± 0.049 $\chi^2/\text{NDF}: 3631790.2/72$

In: 432.448 ± 0.057 $\chi^2/\text{NDF}: 4741101.2/57$

Out: 448.441 ± 0.057 $\chi^2/\text{NDF}: 4840099.2/62$

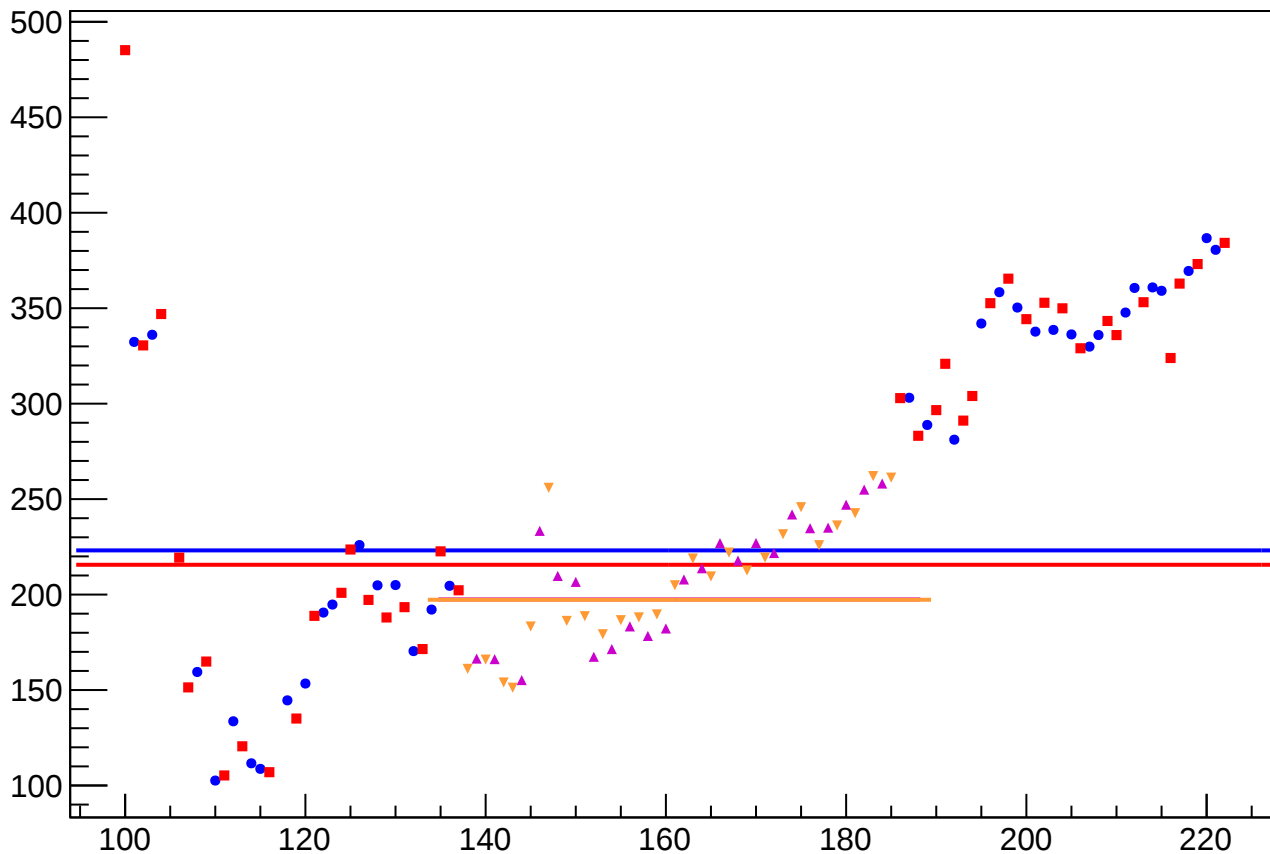
All: 440.408 ± 0.040 $\chi^2/\text{NDF}: 9620479.1/120$

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134700.250 $\pm$ 0.056	χ^2 /NDF: 5195551062.8/34	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/41
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 134724.584 $\pm$ 0.038	χ^2 /NDF: 11099797320.0/34
Right Out: 134746.477 $\pm$ 0.053	χ^2 /NDF: 5903883485.1/37	In: 130542.935 $\pm$ 0.037	χ^2 /NDF: 15244038395.1/50
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130675.866 $\pm$ 0.035	χ^2 /NDF: 16820718213.0/34
		All: 130612.115 $\pm$ 0.025	χ^2 /NDF: 32071654.0/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 223.137 $\pm$ 0.039 χ^2 /NDF: 5816862.1/34

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 215.608 $\pm$ 0.037 χ^2 /NDF: 6339962.6/37

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

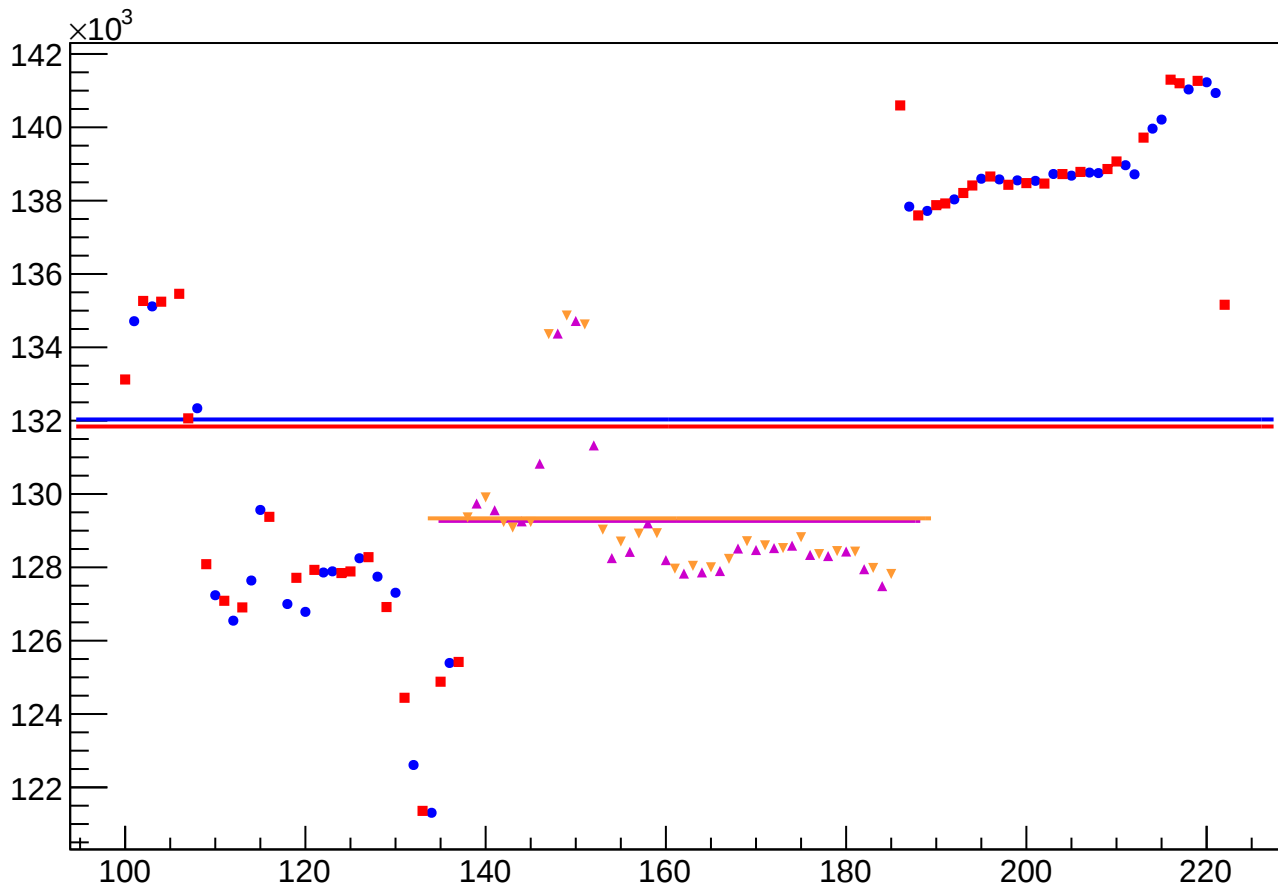
Right: 219.174 $\pm$ 0.027 χ^2 /NDF: 12176070.7/72

In: 208.507 $\pm$ 0.026 χ^2 /NDF: 6850638.8/57

Out: 205.357 $\pm$ 0.025 χ^2 /NDF: 7326614.8/62

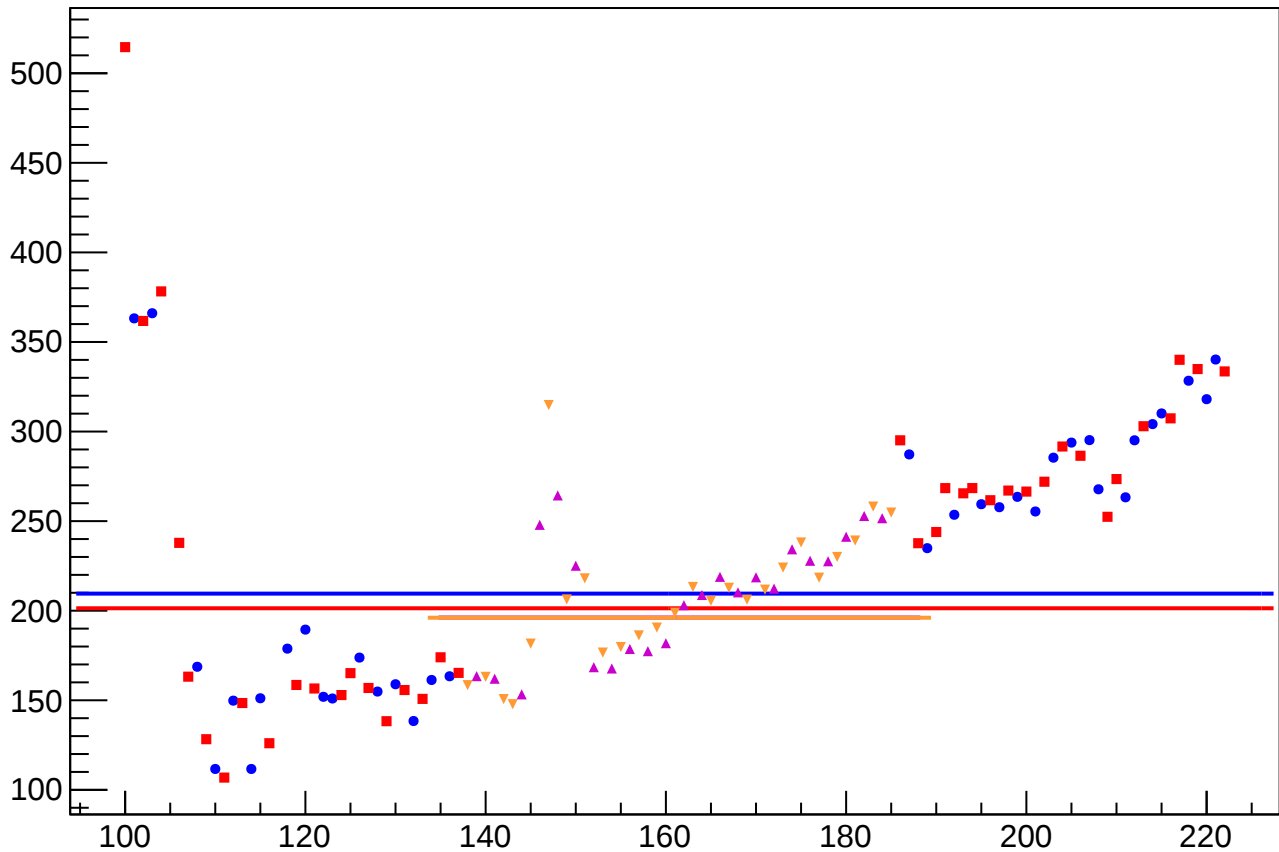
All: 206.868 $\pm$ 0.018 χ^2 /NDF: 14185001.7/12

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 132032.889 $\pm$ 0.051	χ^2 /NDF: 15167600796.9/34	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/34
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 131931.783 $\pm$ 0.035	χ^2 /NDF: 30703074364.1/24
Right Out: 131840.943 $\pm$ 0.048	χ^2 /NDF: 15527942793.8/37	In: 130576.981 $\pm$ 0.035	χ^2 /NDF: 17944041945.1/37
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130551.713 $\pm$ 0.034	χ^2 /NDF: 18373704801.6/22
		All: 130563.825 $\pm$ 0.024	χ^2 /NDF: 3631801900.0/22

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 209.535 $\pm$ 0.036 χ^2 /NDF: 3773435.2/34

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 201.355 $\pm$ 0.034 χ^2 /NDF: 4596003.4/37

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

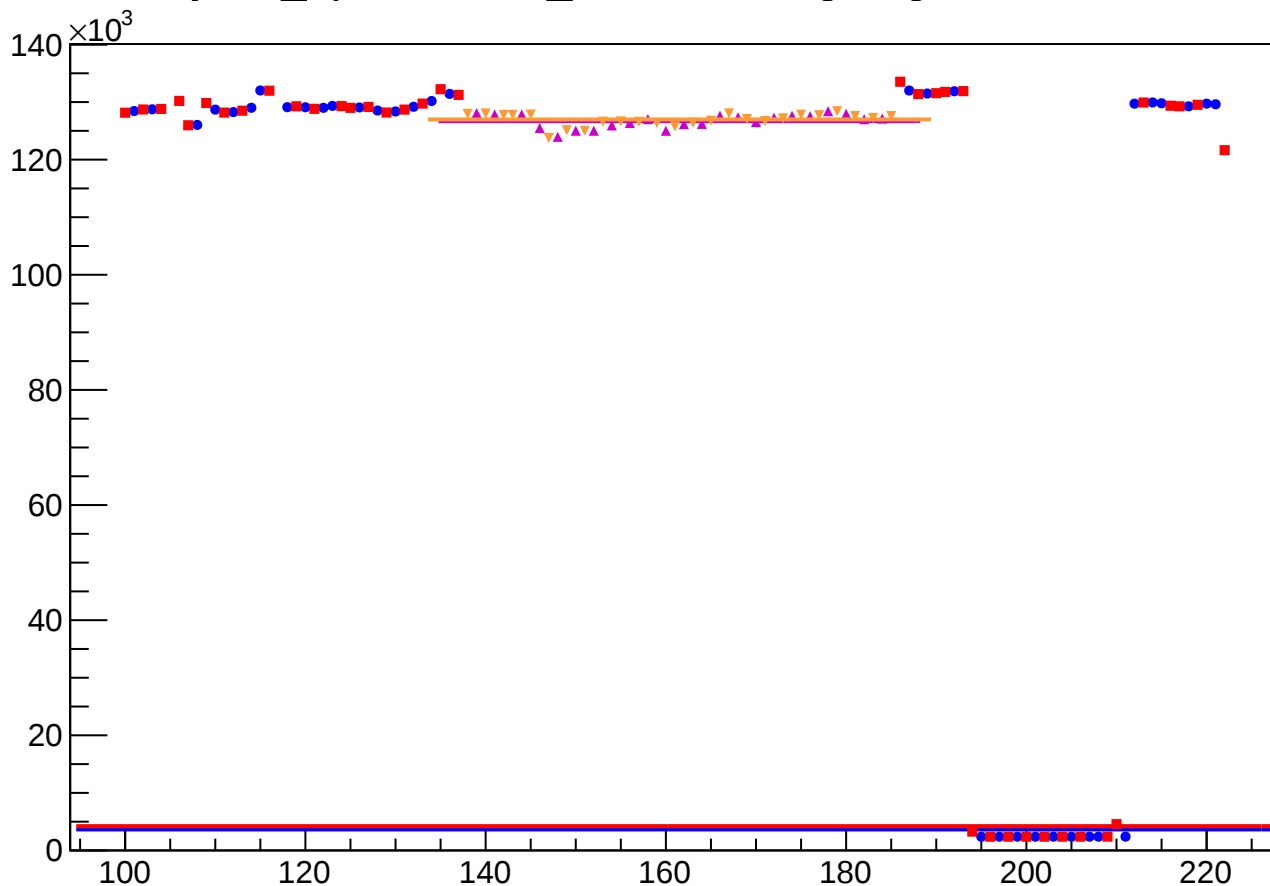
Right: 205.227 $\pm$ 0.025 χ^2 /NDF: 8396791.9/72

In: 202.509 $\pm$ 0.025 χ^2 /NDF: 4744289.9/57

Out: 198.639 $\pm$ 0.024 χ^2 /NDF: 5584098.9/62

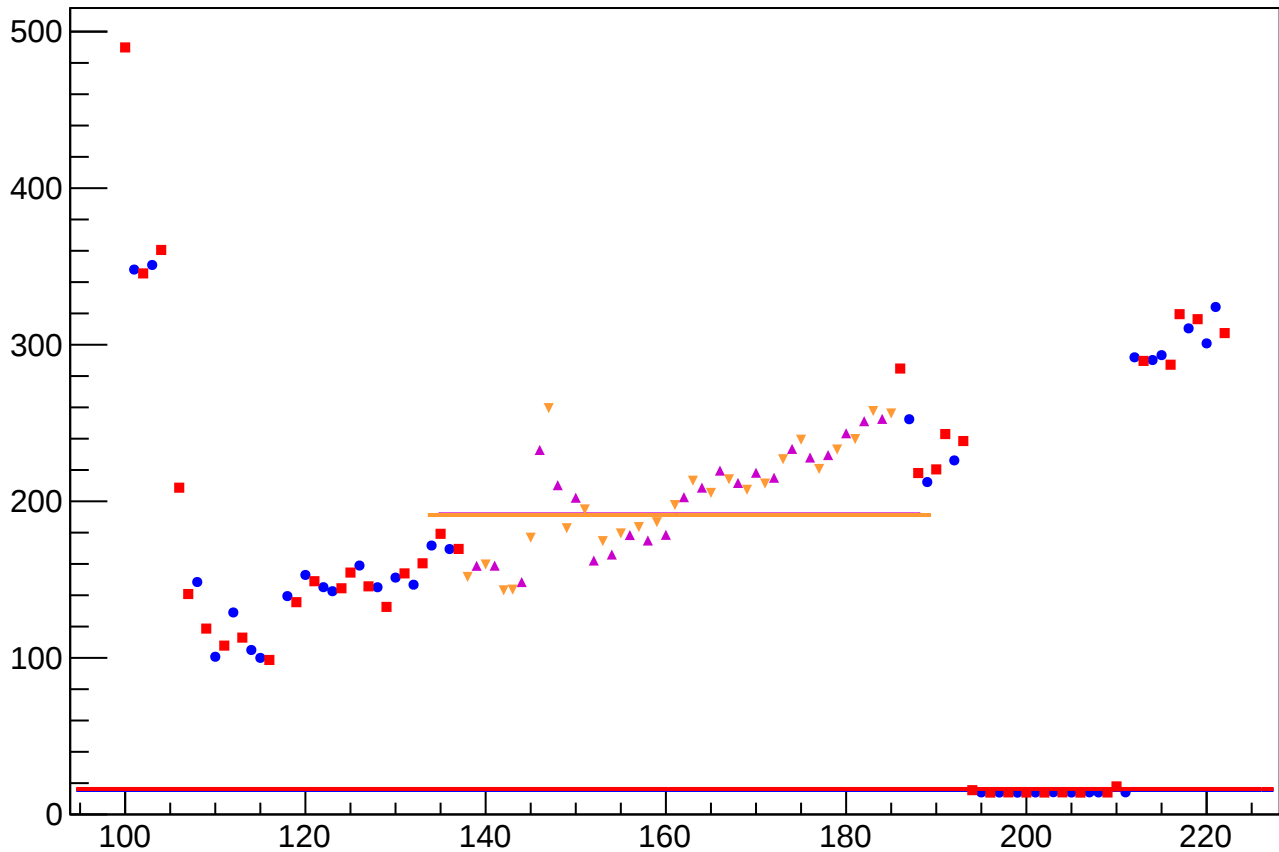
All: 200.494 $\pm$ 0.017 χ^2 /NDF: 10341164.8/12

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3651.862 ± 0.005 $\chi^2/\text{NDF}: 5621422098151.1/34$ Left: 126836.943 ± 0.033 $\chi^2/\text{NDF}: 1211882944.2/4$
 Left Out: 126981.724 ± 0.046 $\chi^2/\text{NDF}: 530573115.8/24$ Right: 3911.252 ± 0.004 $\chi^2/\text{NDF}: 12062845383857$
 Right Out: 4225.509 ± 0.006 $\chi^2/\text{NDF}: 6436145989814.9/37$ In: 5202.923 ± 0.005 $\chi^2/\text{NDF}: 12390001584926.7$
 Left In: 126682.659 ± 0.047 $\chi^2/\text{NDF}: 660415880.0/22$ Out: 6216.213 ± 0.006 $\chi^2/\text{NDF}: 13590396673961.$
 All: 5662.030 ± 0.004 $\chi^2/\text{NDF}: 25997107992$

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.638+/-0.004 χ^2/NDF : 20750960.6/34

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 16.278+/-0.004 χ^2/NDF : 22357498.3/37

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

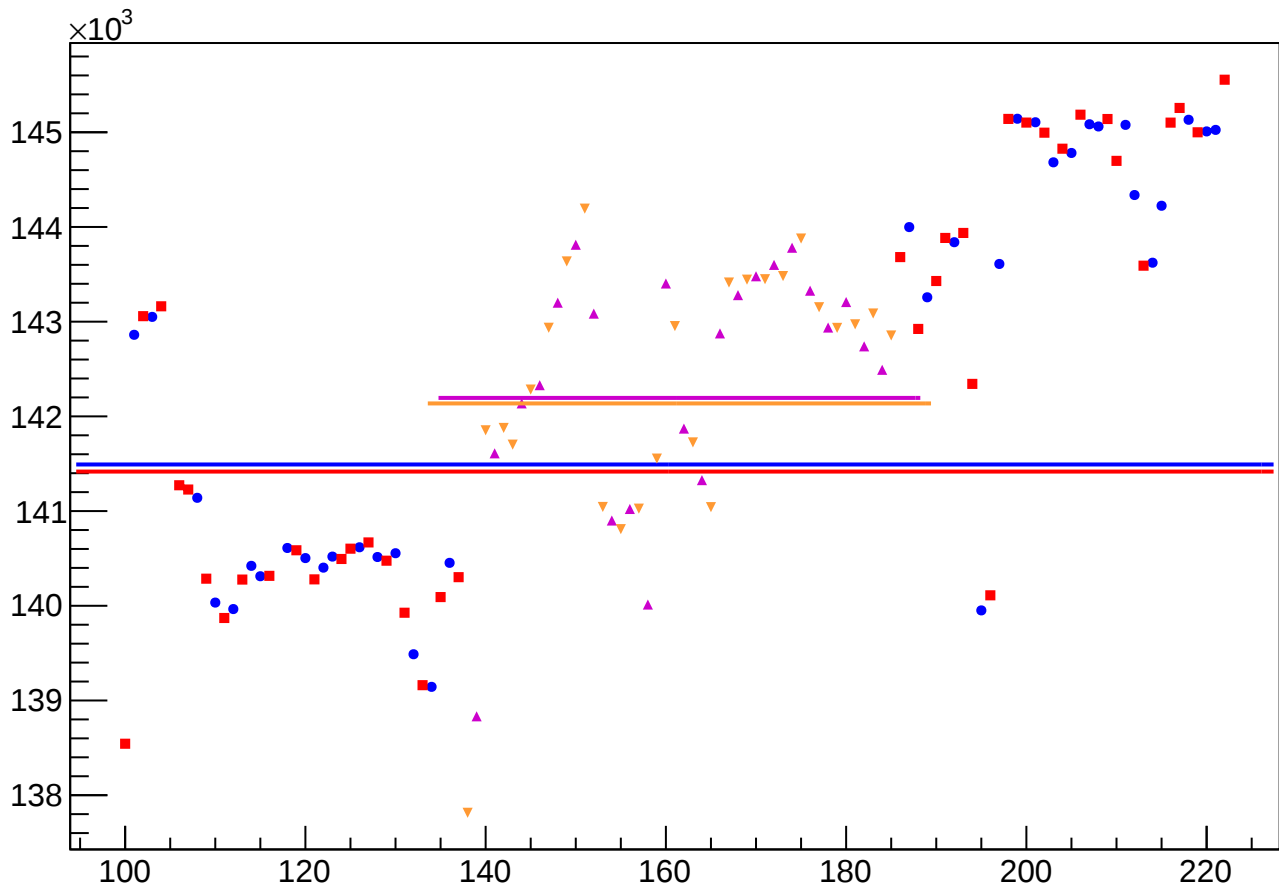
Right: 15.928+/-0.003 χ^2/NDF : 43121575.4/72

In: 17.858+/-0.004 χ^2/NDF : 49329443.8/57

Out: 19.116+/-0.004 χ^2/NDF : 52422240.3/62

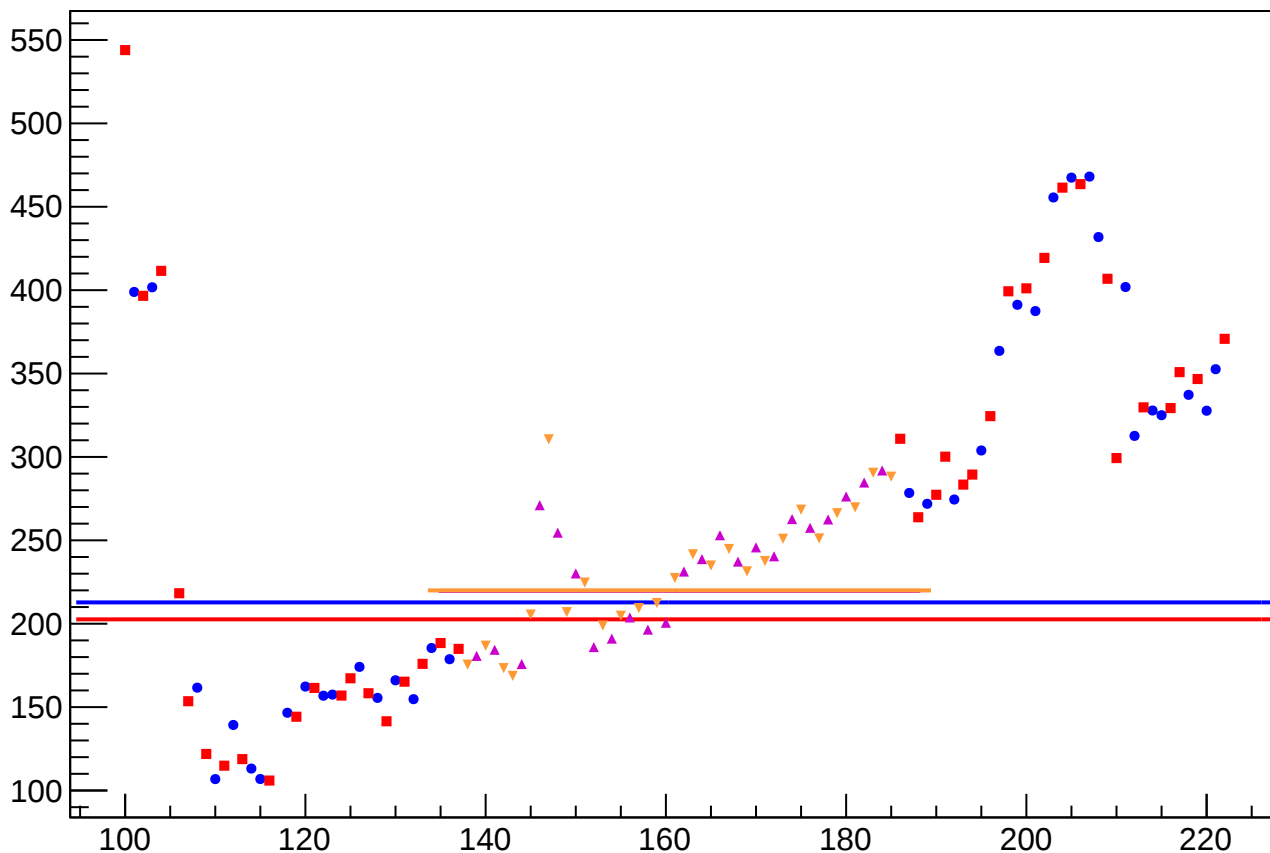
All: 18.428+/-0.003 χ^2/NDF : 101803175.3/12

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141492.112 $\pm$ 0.054	χ^2 /NDF: 1248559265.1/34	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: 141452.129 $\pm$ 0.037	χ^2 /NDF: 2623831430.2/6
Right Out: 141417.180 $\pm$ 0.050	χ^2 /NDF: 1374243511.4/37	In: 141844.254 $\pm$ 0.038	χ^2 /NDF: 1977575593.0/57
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141763.804 $\pm$ 0.036	χ^2 /NDF: 2287764037.2/6
		All: 141802.082 $\pm$ 0.026	χ^2 /NDF: 426767392.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 212.784+/-0.038 χ^2/NDF : 6982581.8/34

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 202.626+/-0.036 χ^2/NDF : 7593940.6/37

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

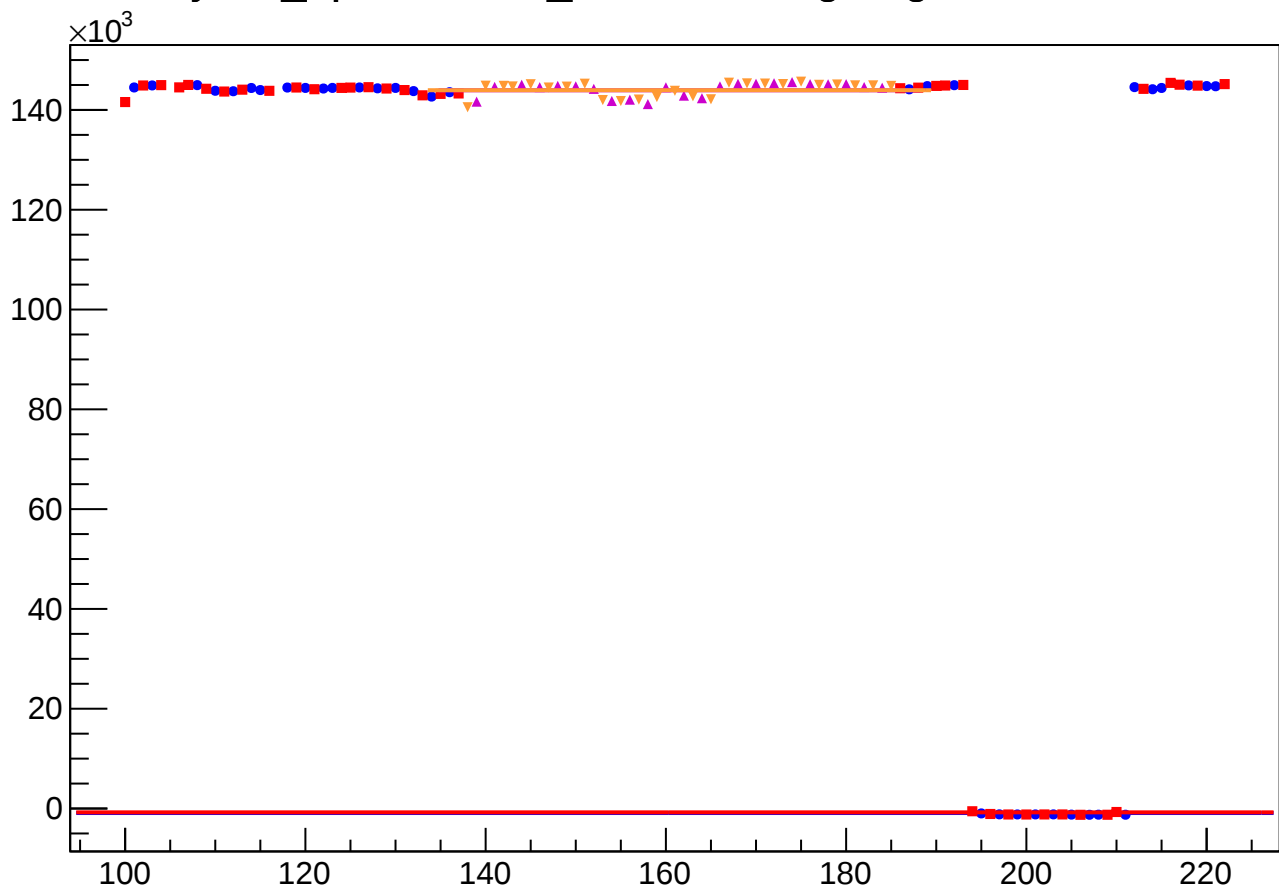
Right: 207.364+/-0.026 χ^2/NDF : 14614329.3/72

In: 216.241+/-0.027 χ^2/NDF : 7811707.5/57

Out: 210.982+/-0.026 χ^2/NDF : 8574405.2/62

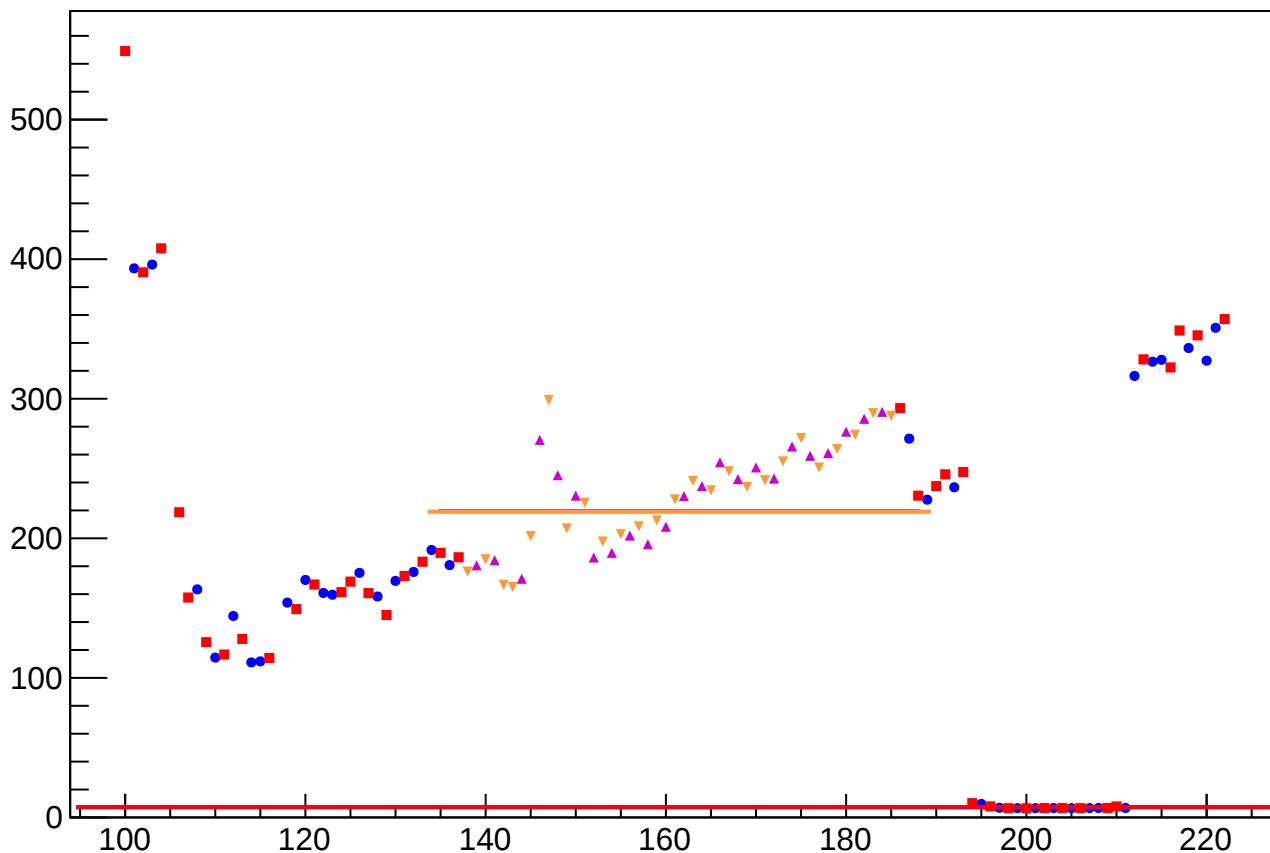
All: 213.484+/-0.019 χ^2/NDF : 16406059.9/12

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -902.025 $\pm$ 0.003	χ^2 /NDF: 6108594523883.8/34	Left: 143944.995 $\pm$ 0.037	χ^2 /NDF: 1584524299.4/34
Left Out: 143951.284 $\pm$ 0.052	χ^2 /NDF: 864679545.2/24	Right: -841.539 $\pm$ 0.002	χ^2 /NDF: 13202068921934
Right Out: -768.618 $\pm$ 0.003	χ^2 /NDF: 7092312800208.2/37	In: -555.770 $\pm$ 0.003	χ^2 /NDF: 13328862612896.4
Left In: 143938.288 $\pm$ 0.054	χ^2 /NDF: 719814685.6/22	Out: -324.089 $\pm$ 0.003	χ^2 /NDF: 14774755288961.6
		All: -450.689 $\pm$ 0.002	χ^2 /NDF: 28107130915

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.277 $\pm$ 0.002 χ^2 /NDF: 22849553.6/34

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.393 $\pm$ 0.002 χ^2 /NDF: 24686312.3/37

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

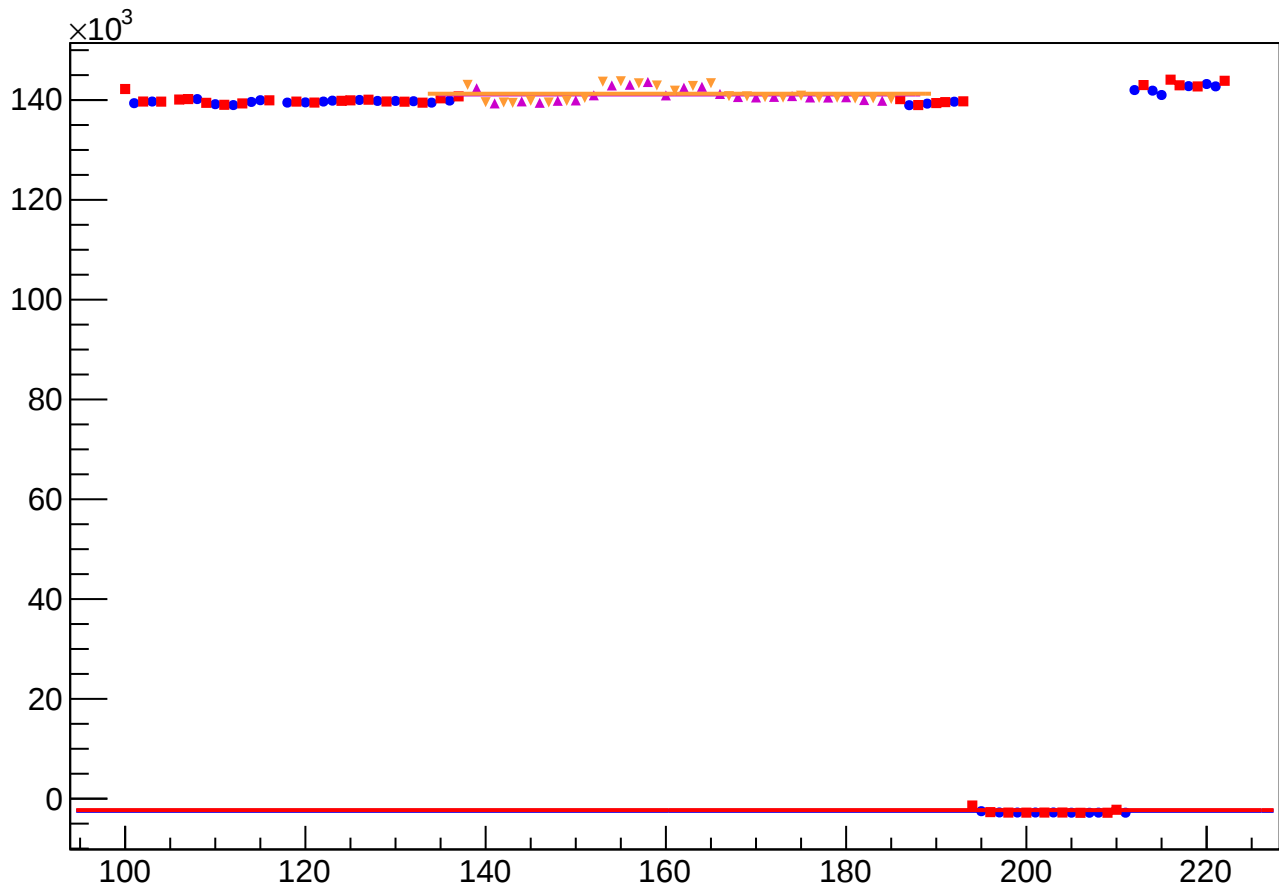
Right: 7.330 $\pm$ 0.001 χ^2 /NDF: 47537616.1/72

In: 7.784 $\pm$ 0.002 χ^2 /NDF:54676736.4/57

Out: 8.043 $\pm$ 0.002 χ^2 /NDF:58482226.7/62

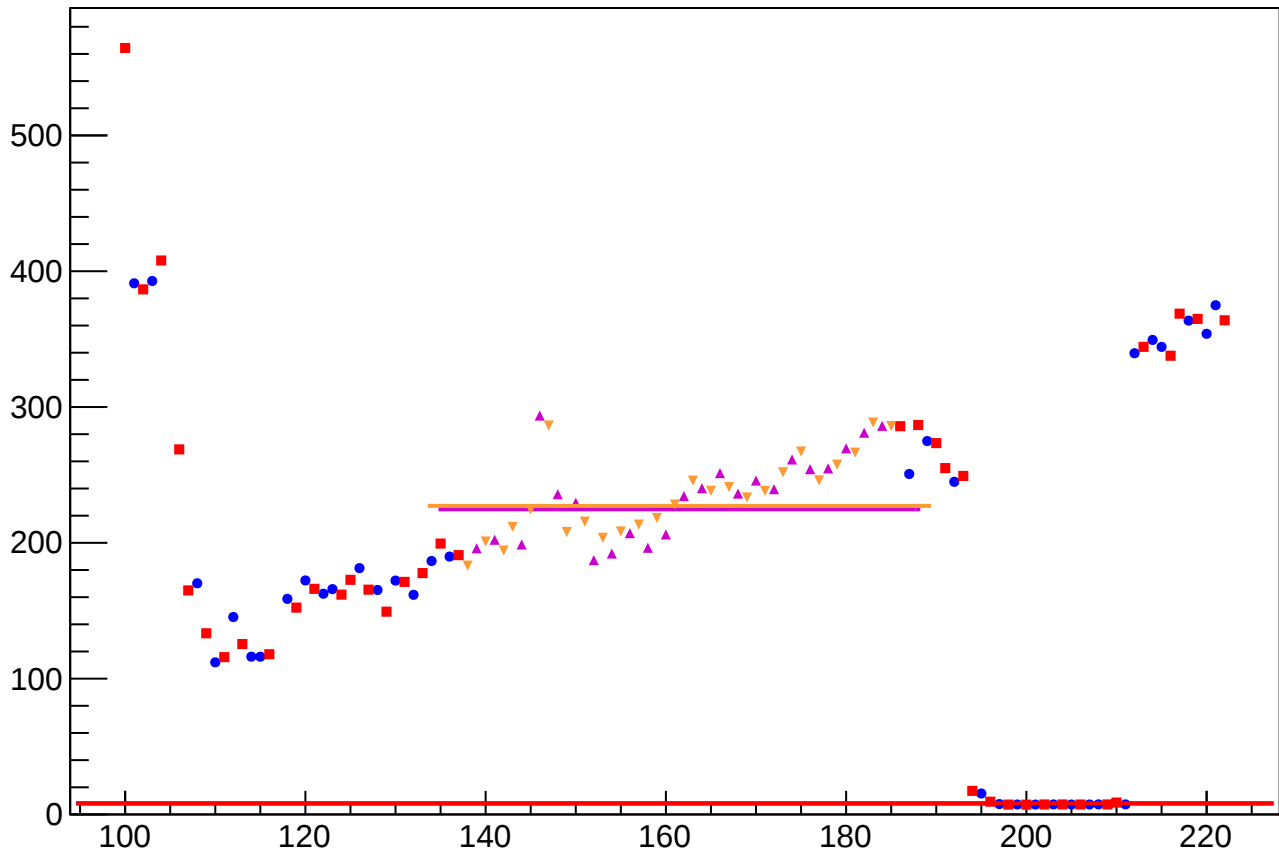
All: 7.902 $\pm$ 0.001 χ^2 /NDF: 113167727.9/120

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2439.894 $\pm$ 0.003	χ^2 /NDF: 5563585693803.6/34	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2372.544 $\pm$ 0.002	χ^2 /NDF: 1198532807425.0
Right Out: -2291.303 $\pm$ 0.003	χ^2 /NDF: 6420591944101.2/37	In: -2026.971 $\pm$ 0.003	χ^2 /NDF: 12378596732283.6
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1770.791 $\pm$ 0.003	χ^2 /NDF: 13542665636704.0
		All: -1910.808 $\pm$ 0.002	χ^2 /NDF: 2592469317.0

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.081 ± 0.002 χ^2/NDF : 22981585.5/34

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.231 ± 0.002 χ^2/NDF : 24700711.9/37

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

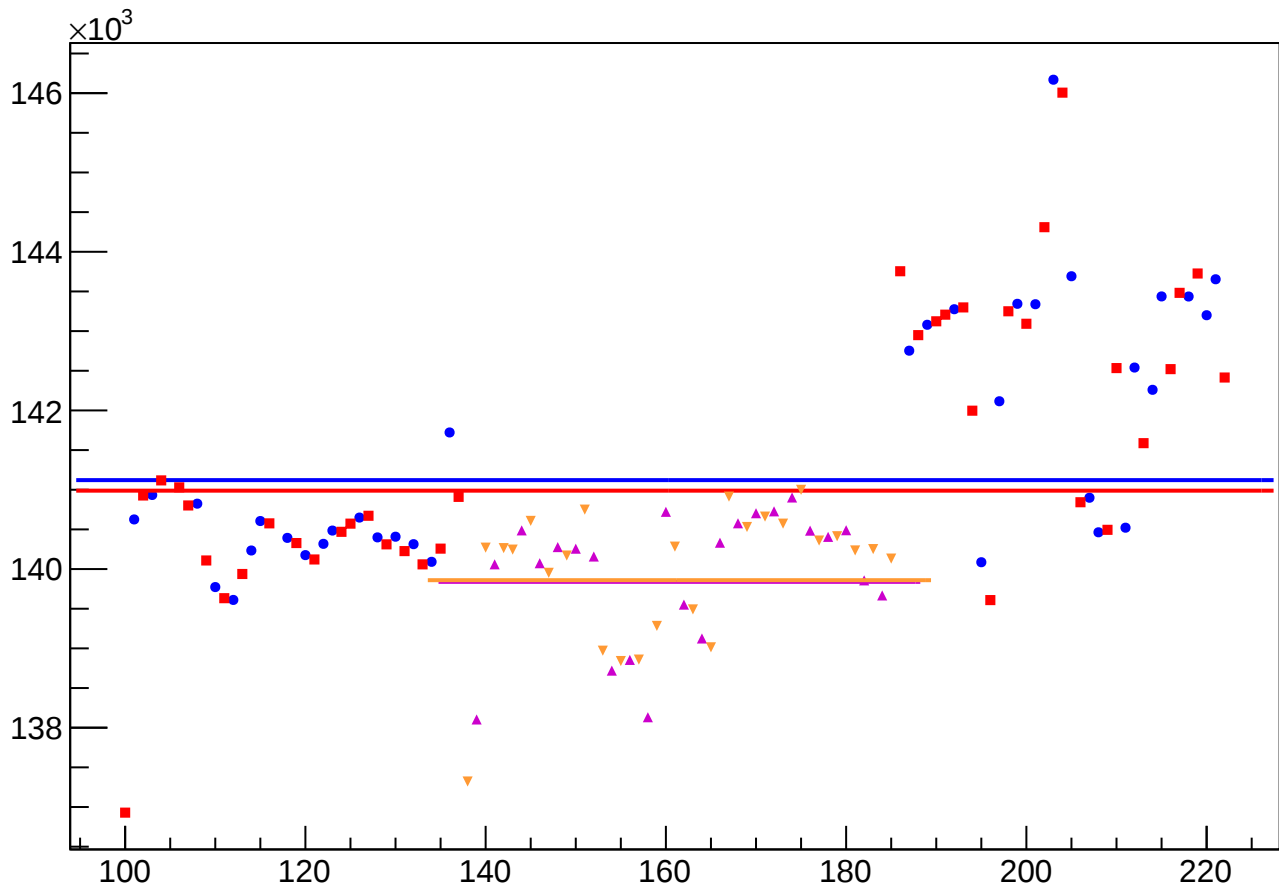
Right: 8.149 ± 0.002 χ^2/NDF : 47684648.5/72

In: 8.704 ± 0.002 χ^2/NDF : 54586747.4/57

Out: 9.025 ± 0.002 χ^2/NDF : 58327863.5/62

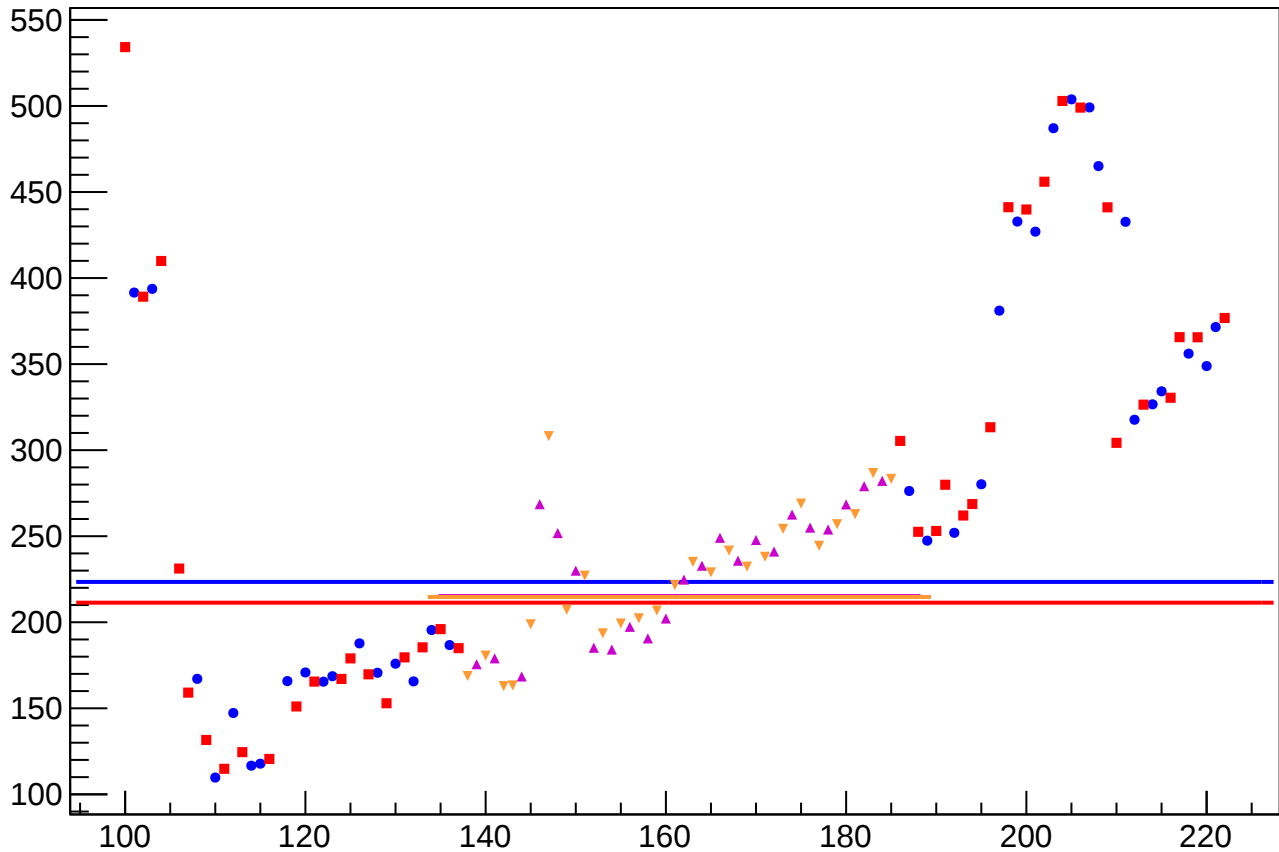
All: 8.849 ± 0.002 χ^2/NDF : 112925396.9/120

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 141121.309 $\pm$ 0.056	χ^2 /NDF: 582181170.9/34	Left: 139849.553 $\pm$ 0.037	χ^2 /NDF: 609773442.9/41
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 141049.879 $\pm$ 0.038	χ^2 /NDF: 1228190897.2/41
Right Out: 140988.538 $\pm$ 0.052	χ^2 /NDF: 643036851.2/37	In: 140436.845 $\pm$ 0.039	χ^2 /NDF: 1136942828.8/51
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140410.546 $\pm$ 0.037	χ^2 /NDF: 1211318842.0/61
		All: 140422.993 $\pm$ 0.027	χ^2 /NDF: 234850653.1/113

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 223.438 $\pm$ 0.040 χ^2 /NDF: 6678061.2/34

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 211.374 $\pm$ 0.037 χ^2 /NDF: 7155201.8/37

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2 /NDF: 1863154.2/47

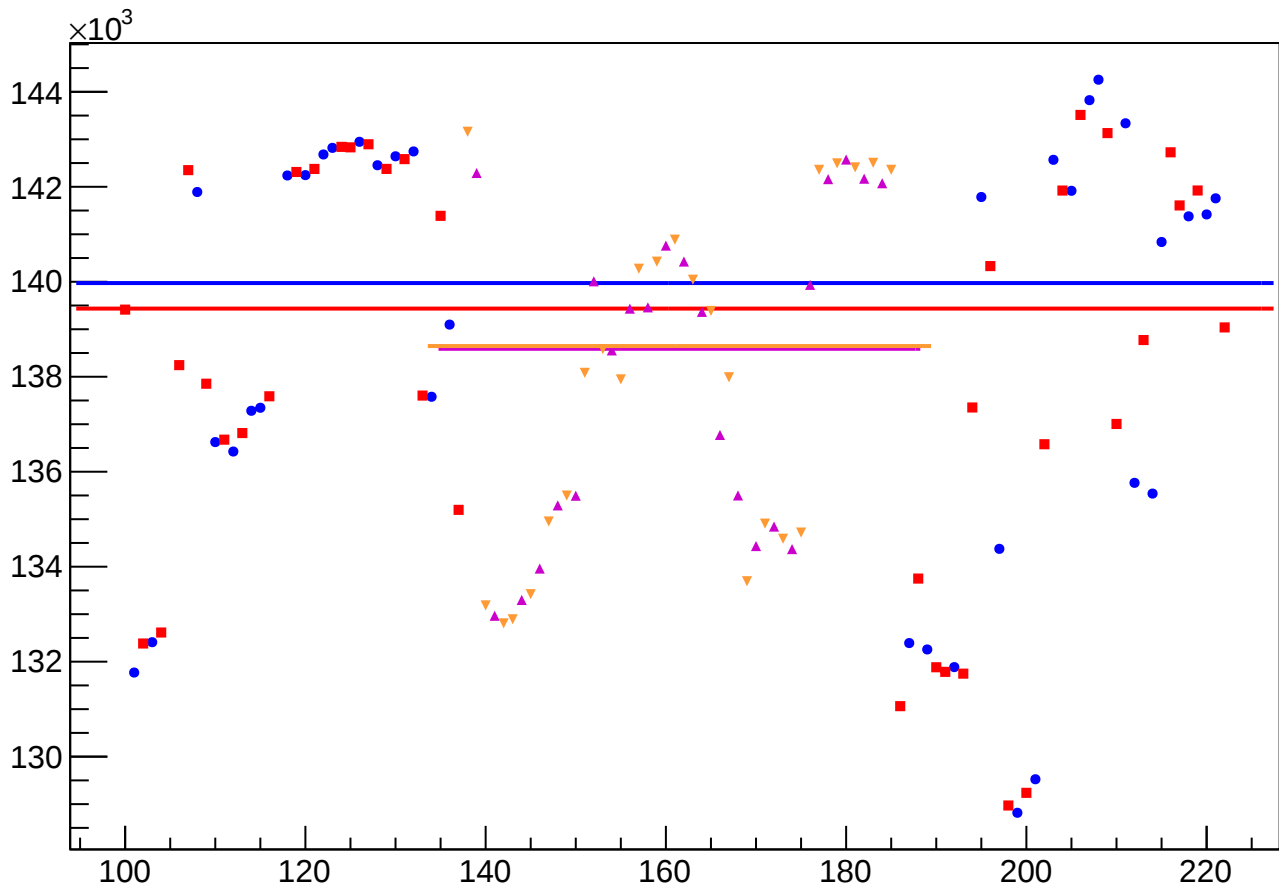
Right: 216.948 $\pm$ 0.027 χ^2 /NDF: 13882356.0/72

In: 219.053 $\pm$ 0.027 χ^2 /NDF: 7582594.4/57

Out: 213.073 $\pm$ 0.026 χ^2 /NDF: 8140424.5/62

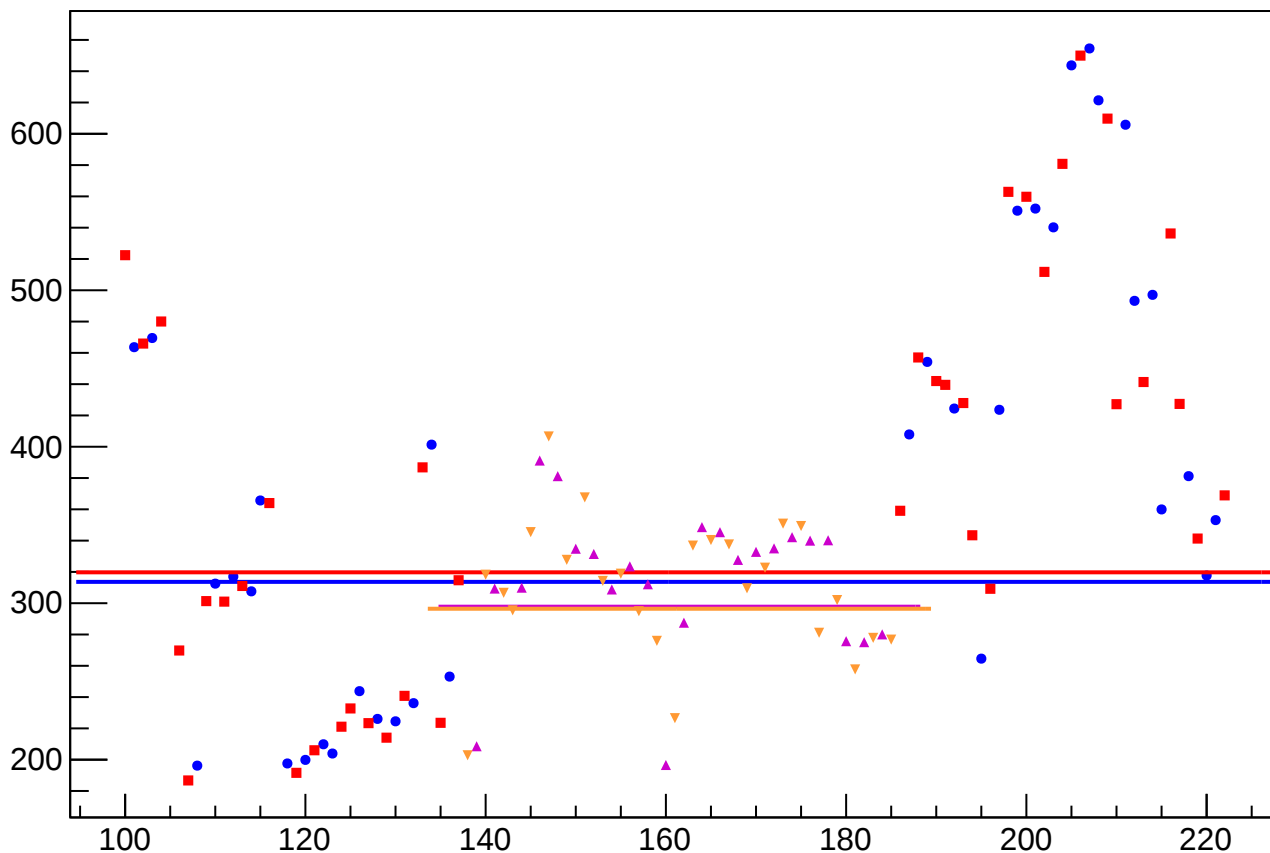
All: 215.904 $\pm$ 0.019 χ^2 /NDF: 15748343.0/12

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139972.852 $\pm$ 0.078 χ^2 /NDF: 2432978243.2/34
 Left Out: 138646.366 $\pm$ 0.071 χ^2 /NDF: 2548637600.4/24
 Right Out: 139435.201 $\pm$ 0.077 χ^2 /NDF: 2528648169.9/37
 Left In: 138588.711 $\pm$ 0.074 χ^2 /NDF: 1948065195.1/22
 Left: 138618.660 $\pm$ 0.051 χ^2 /NDF: 4497021019.3/4
 Right: 139700.778 $\pm$ 0.055 χ^2 /NDF: 4985824910.4/4
 In: 139243.444 $\pm$ 0.053 χ^2 /NDF: 4548057163.8/57
 Out: 139008.966 $\pm$ 0.052 χ^2 /NDF: 5134266894.6/6
 All: 139123.110 $\pm$ 0.037 χ^2 /NDF: 969219152

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 313.640 $\pm$ 0.055 χ^2 /NDF: 5028326.7/34

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 319.738 $\pm$ 0.054 χ^2 /NDF: 4751894.2/37

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

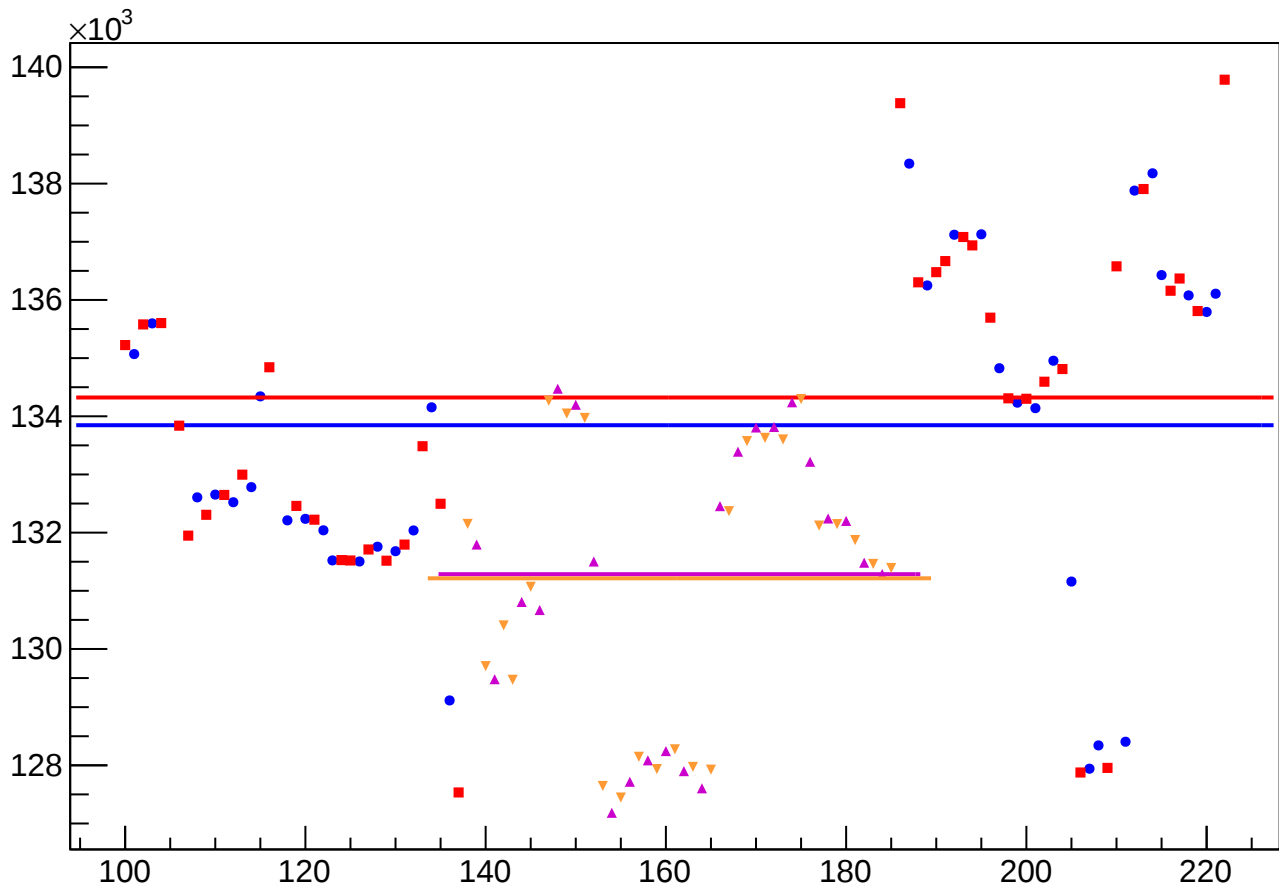
Right: 316.726 $\pm$ 0.039 χ^2 /NDF: 9786448.2/72

In: 305.279 $\pm$ 0.038 χ^2 /NDF: 6133701.7/57

Out: 307.163 $\pm$ 0.037 χ^2 /NDF: 5744678.0/62

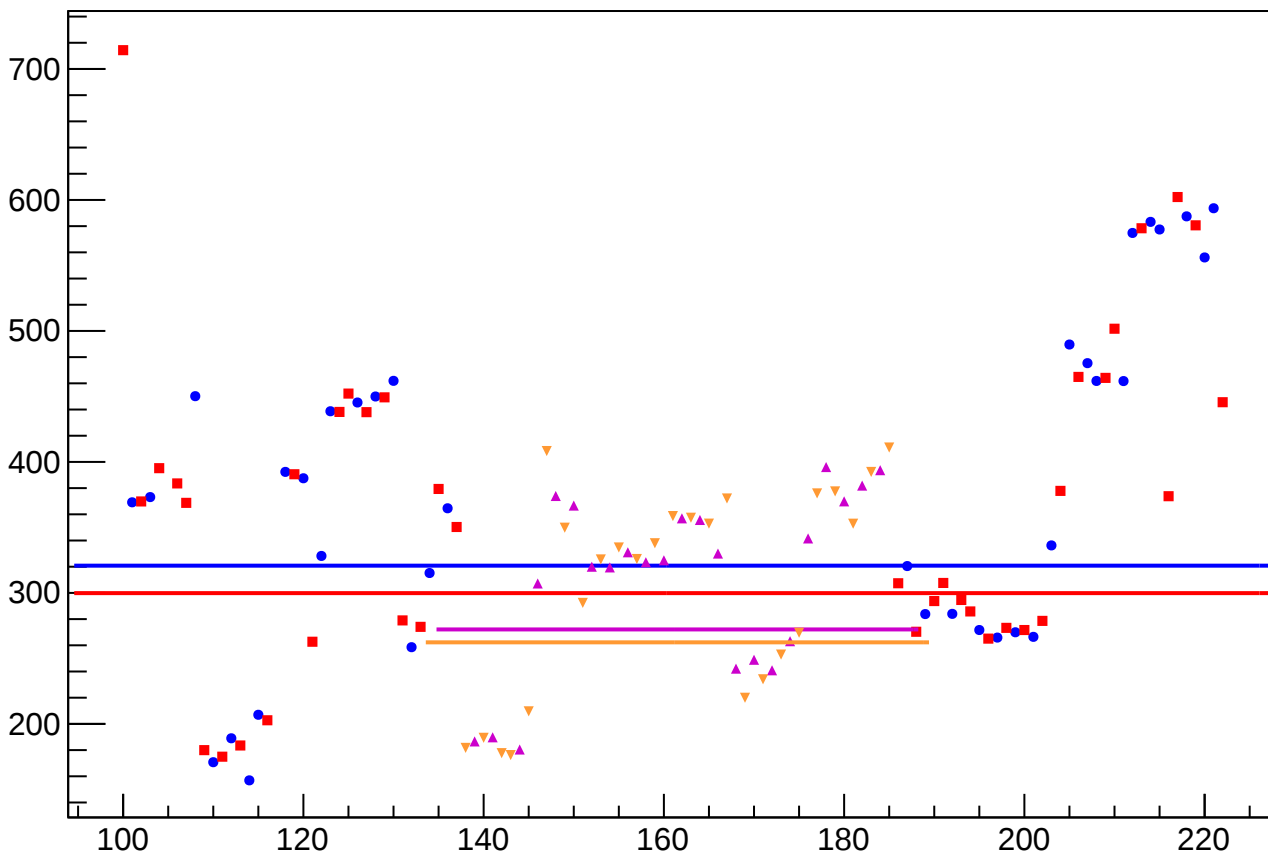
All: 306.246 $\pm$ 0.026 χ^2 /NDF: 11879653.4/121

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133846.637+/-0.078	χ^2/NDF : 1062009039.6/34	Left: 131248.166+/-0.047	χ^2/NDF : 2230223308.9/34
Left Out: 131214.985+/-0.064	χ^2/NDF : 1173424494.6/24	Right: 134106.563+/-0.053	χ^2/NDF : 2264355864.6/24
Right Out: 134323.043+/-0.071	χ^2/NDF : 1181941881.2/37	In: 132399.312+/-0.051	χ^2/NDF : 2729024214.0/57
Left In: 131285.623+/-0.068	χ^2/NDF : 1056232192.1/22	Out: 132613.837+/-0.048	χ^2/NDF : 3406417722.2/6
		All: 132514.525+/-0.035	χ^2/NDF : 614480760.0/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 320.804 $\pm$ 0.055 χ^2 /NDF: 4235101.2/34

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 299.838 $\pm$ 0.050 χ^2 /NDF: 3989379.3/37

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

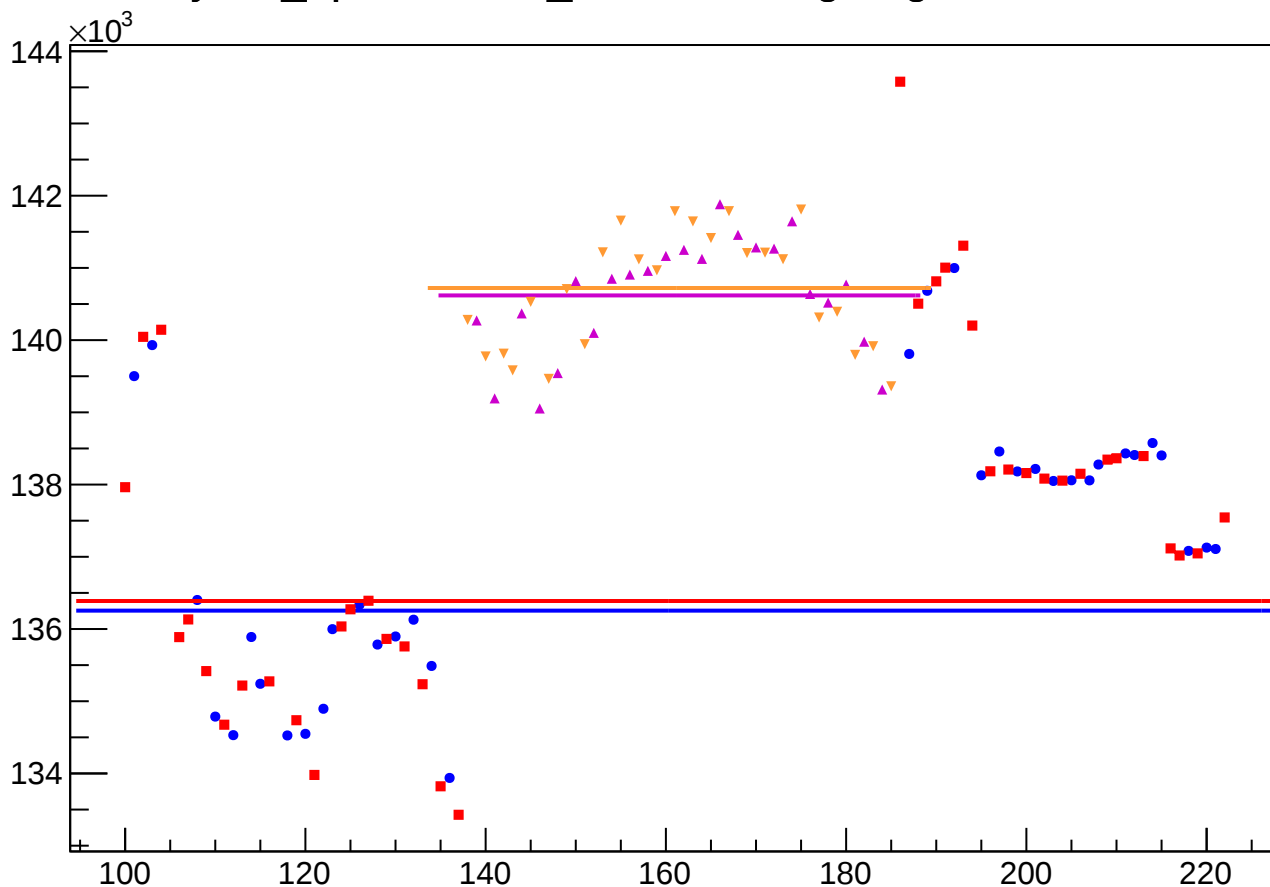
Right: 309.365 $\pm$ 0.037 χ^2 /NDF: 8303514.0/72

In: 293.288 $\pm$ 0.036 χ^2 /NDF: 6898550.0/57

Out: 279.173 $\pm$ 0.034 χ^2 /NDF: 7114847.4/62

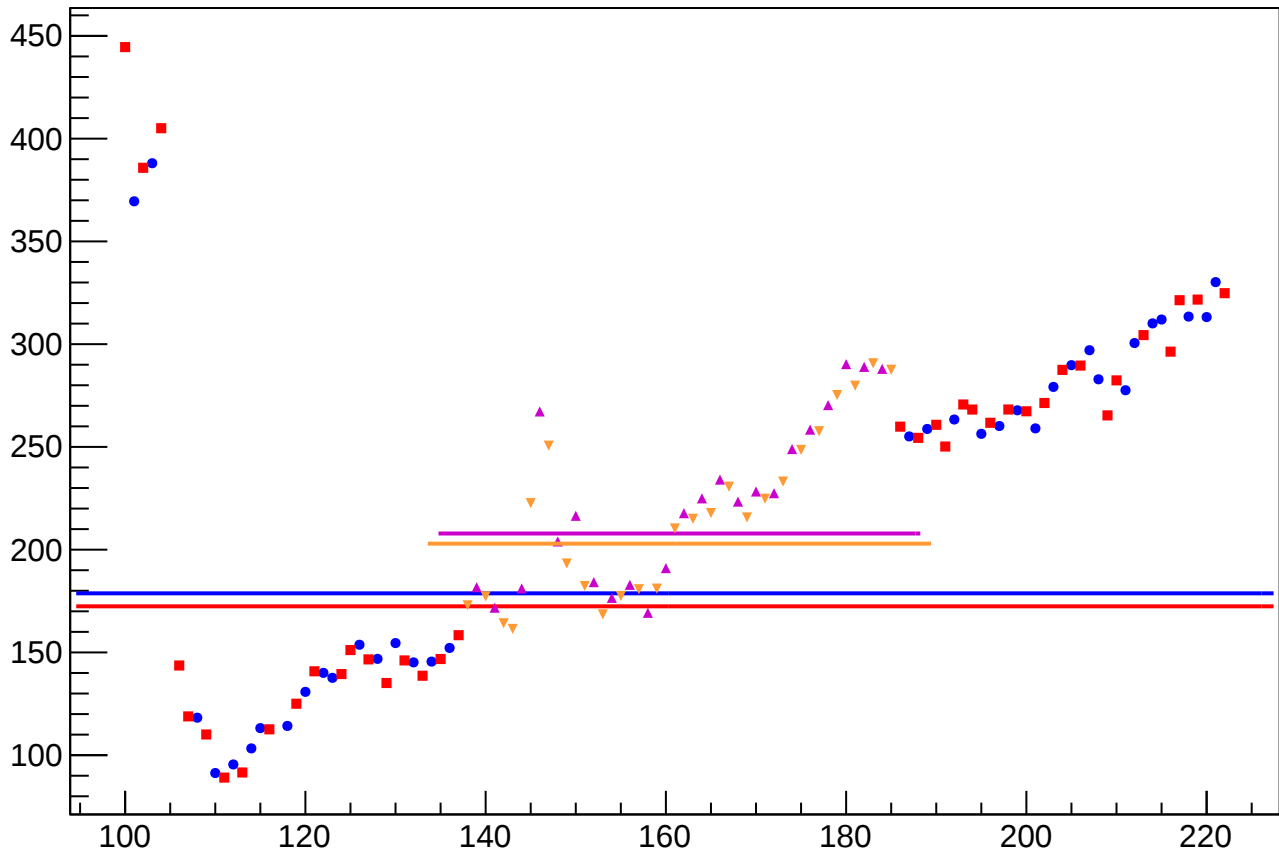
All: 285.707 $\pm$ 0.025 χ^2 /NDF: 14094487.1/12

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136254.521 $\pm$ 0.045	χ^2 /NDF: 1679946768.6/34	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 136324.613 $\pm$ 0.031	χ^2 /NDF: 3917226765.5/10
Right Out: 136387.832 $\pm$ 0.043	χ^2 /NDF: 2232648140.4/37	In: 138157.390 $\pm$ 0.034	χ^2 /NDF: 5997189832.4/57
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138282.216 $\pm$ 0.032	χ^2 /NDF: 6992222478.2/60
		All: 138223.082 $\pm$ 0.023	χ^2 /NDF: 129966193.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 178.751+/-0.032 χ^2/NDF : 6452045.7/34

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 172.432+/-0.030 χ^2/NDF : 7095333.2/37

Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

Left: 205.270+/-0.025 χ^2/NDF : 2011329.4/47

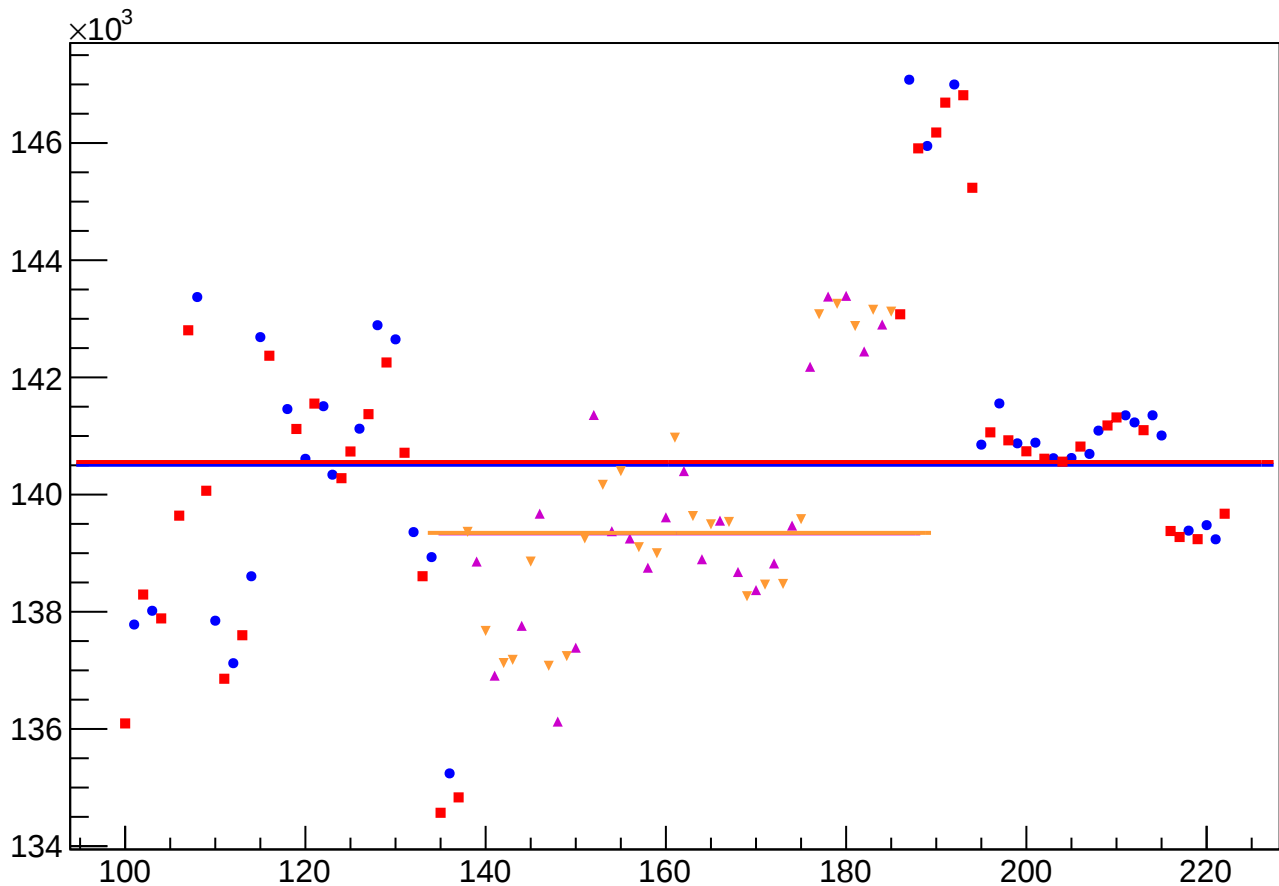
Right: 175.429+/-0.022 χ^2/NDF : 13568189.9/72

In: 191.447+/-0.024 χ^2/NDF :7767796.4/57

Out: 185.765+/-0.023 χ^2/NDF :8594608.7/62

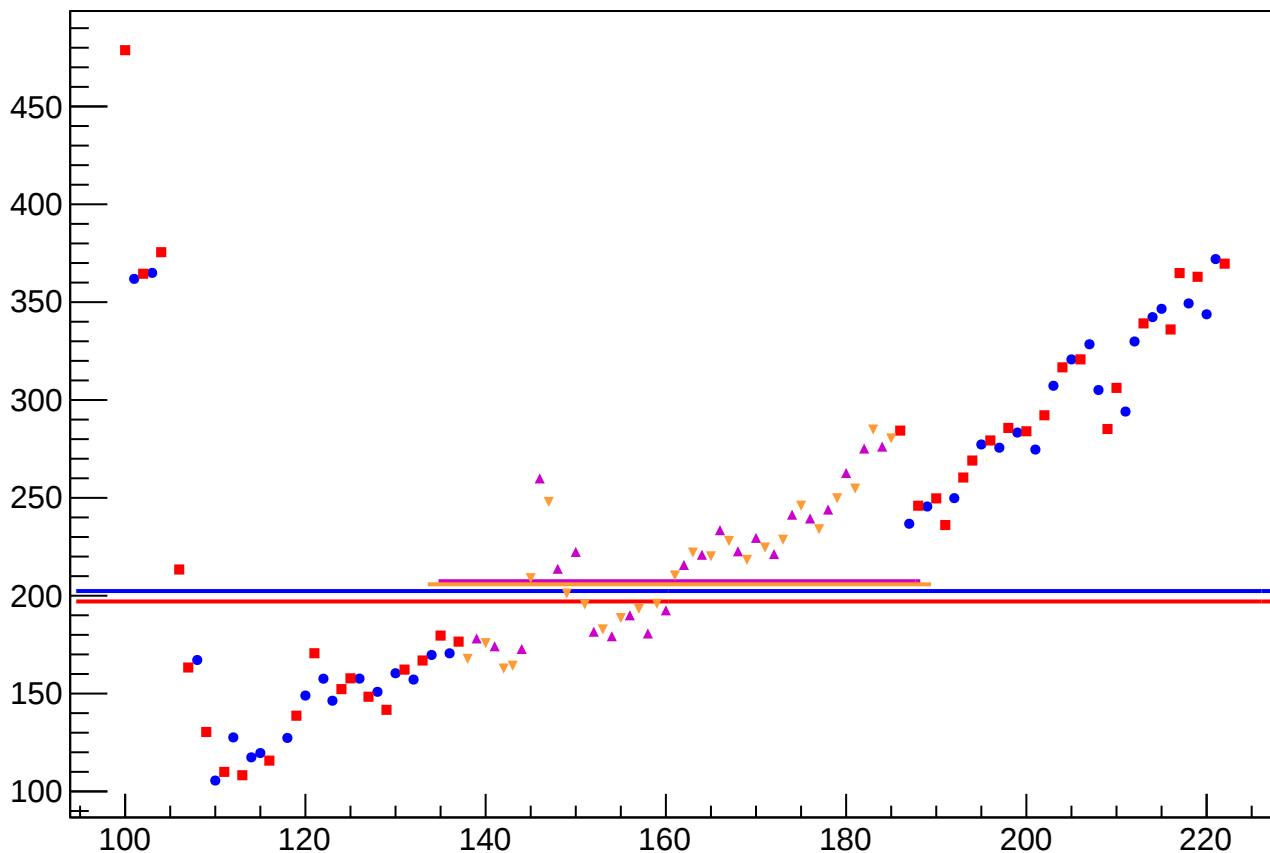
All: 188.457+/-0.016 χ^2/NDF : 16392277.6/12

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140509.147 $\pm$ 0.050	χ^2 /NDF: 2809368388.0/34	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: 140533.575 $\pm$ 0.035	χ^2 /NDF: 6064288037.7/6
Right Out: 140555.951 $\pm$ 0.048	χ^2 /NDF: 3254462915.8/37	In: 139932.864 $\pm$ 0.036	χ^2 /NDF: 4372008360.0/57
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139964.756 $\pm$ 0.034	χ^2 /NDF: 4837433241.7/6
		All: 139949.460 $\pm$ 0.025	χ^2 /NDF: 920985780.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 202.384+/-0.035 χ^2/NDF : 5354526.4/34

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 197.067+/-0.034 χ^2/NDF : 5893844.1/37

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

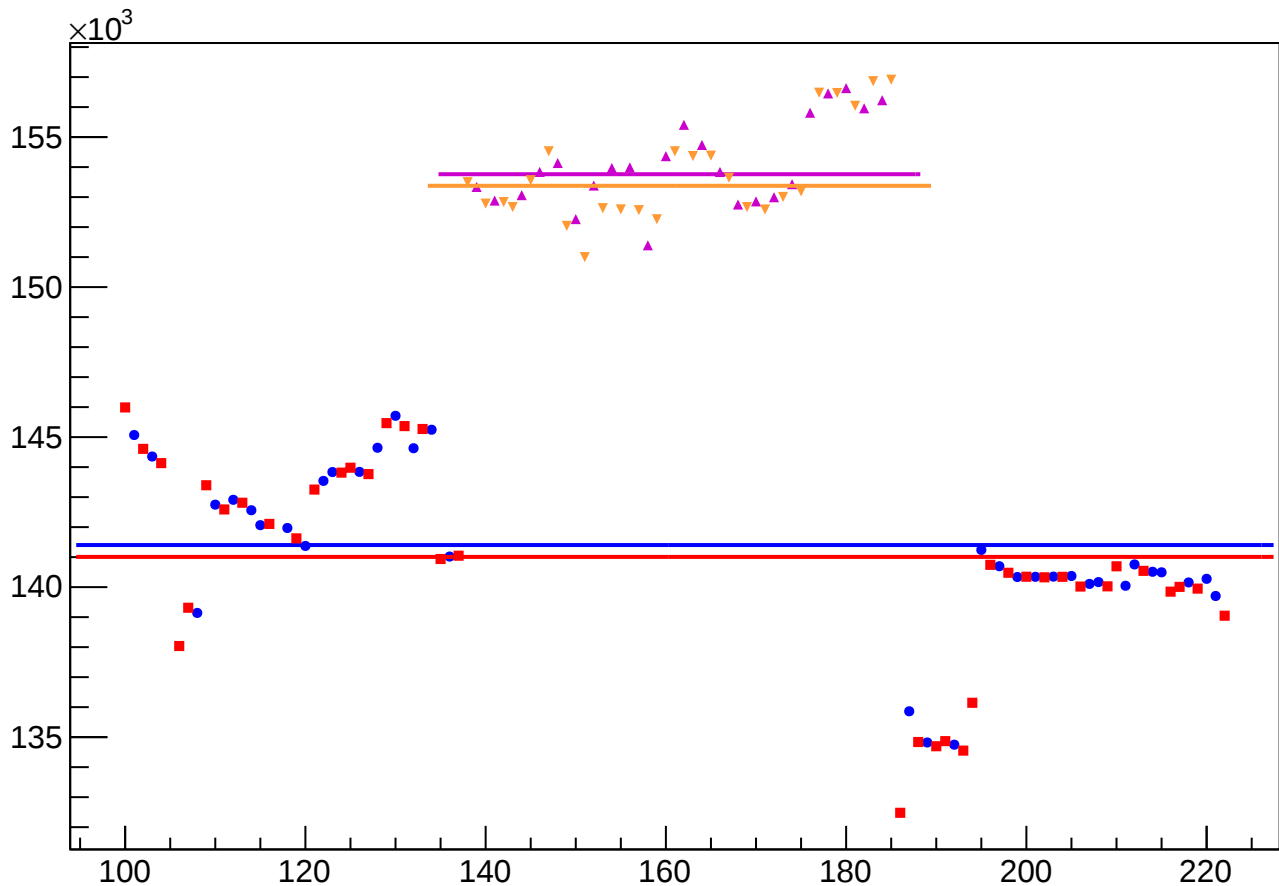
Right: 199.609+/-0.024 χ^2/NDF : 11260160.1/72

In: 204.860+/-0.025 χ^2/NDF : 6066434.1/57

Out: 201.352+/-0.024 χ^2/NDF : 6665271.9/62

All: 203.035+/-0.017 χ^2/NDF : 12741776.7/12

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Left: 153562.262 $\pm$ 0.036 χ^2/NDF : 1468093411.3/4

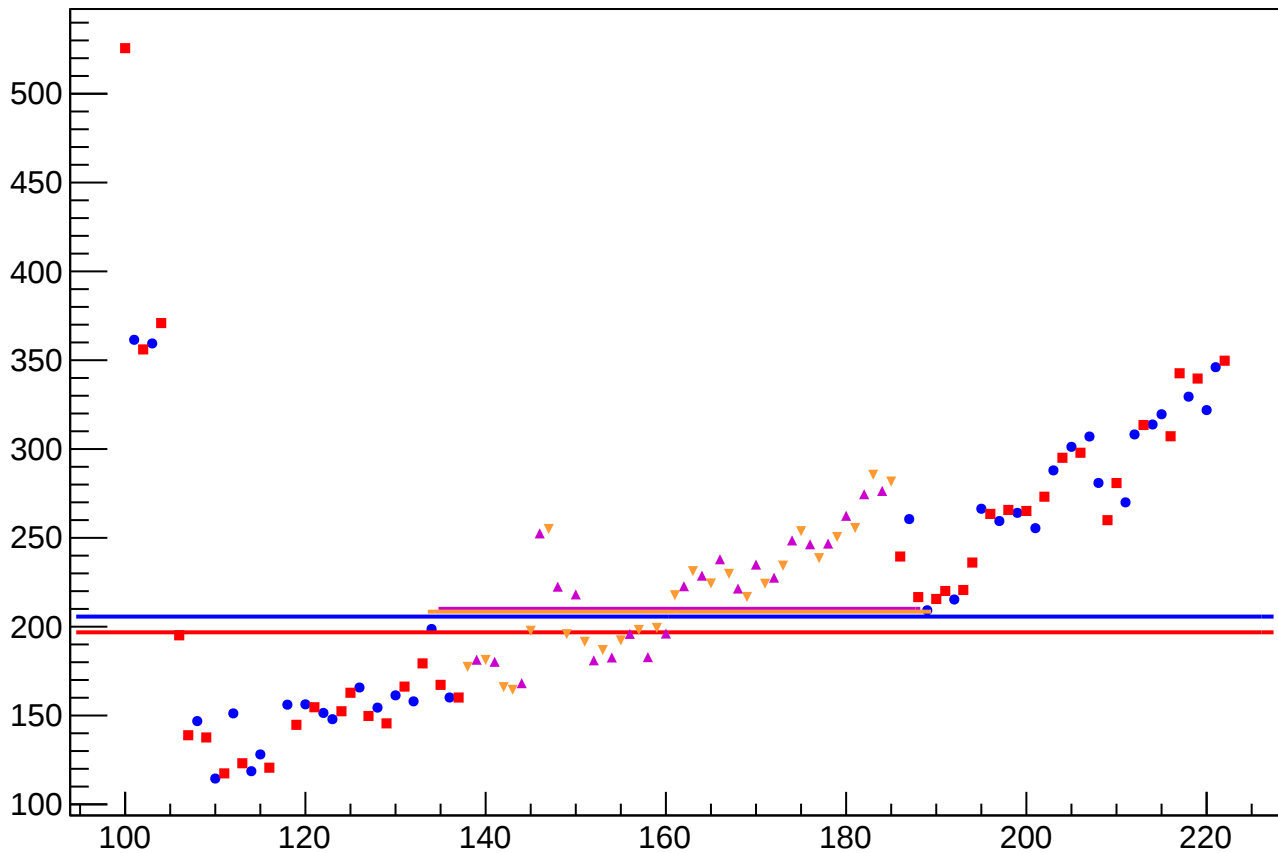
Right: 141193.123 $\pm$ 0.034 χ^2/NDF : 7313314915.8/

In: 147387.793 $\pm$ 0.036 χ^2/NDF : 33184643875.6/5

Out: 146853.311 $\pm$ 0.034 χ^2/NDF : 38185316930.0

All: 147107.200 $\pm$ 0.025 χ^2/NDF : 714869752

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 205.689+/-0.035 χ^2/NDF : 3980681.7/34

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 196.826+/-0.033 χ^2/NDF : 4485307.6/37

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

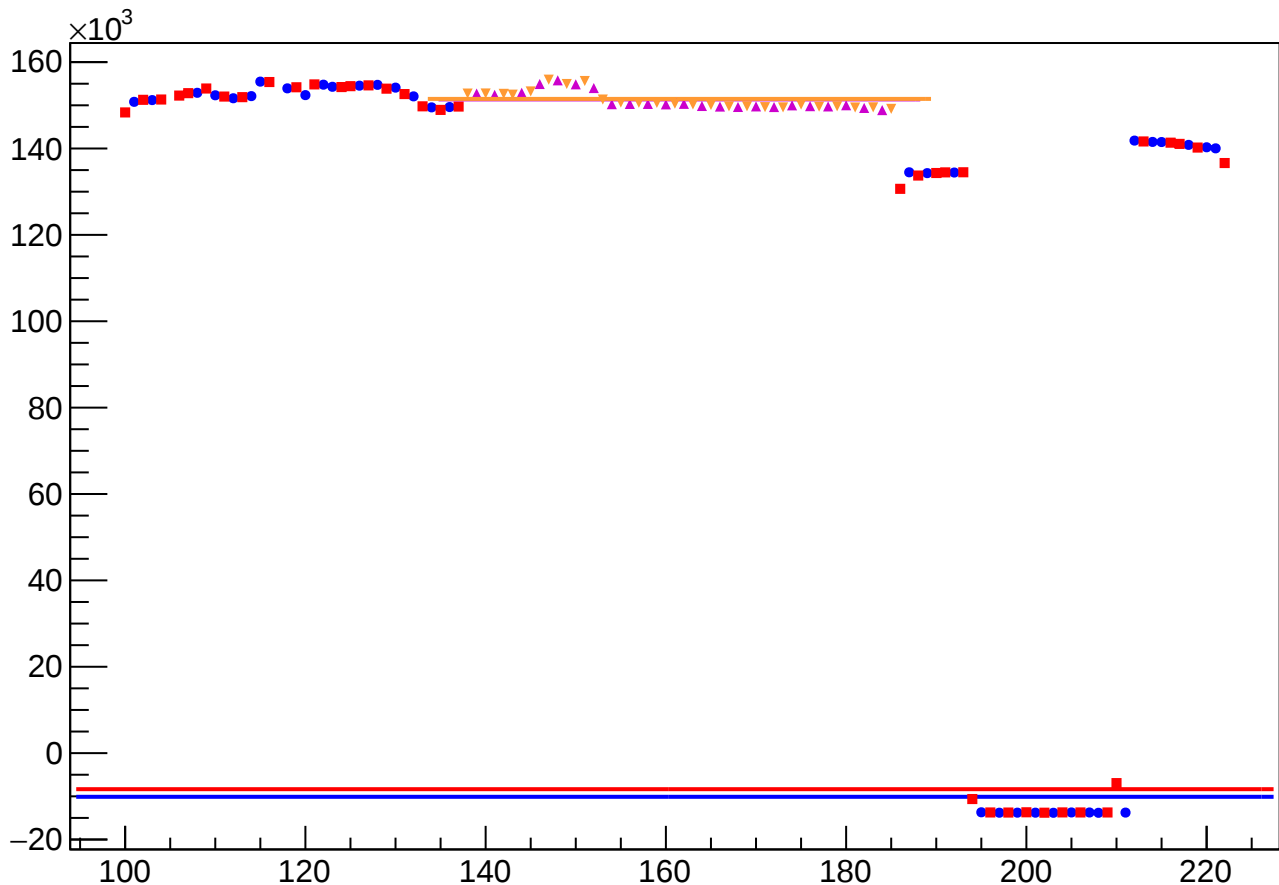
Right: 200.987+/-0.024 χ^2/NDF : 8499535.2/72

In: 207.795+/-0.025 χ^2/NDF : 4690421.4/57

Out: 202.327+/-0.024 χ^2/NDF : 5264446.7/62

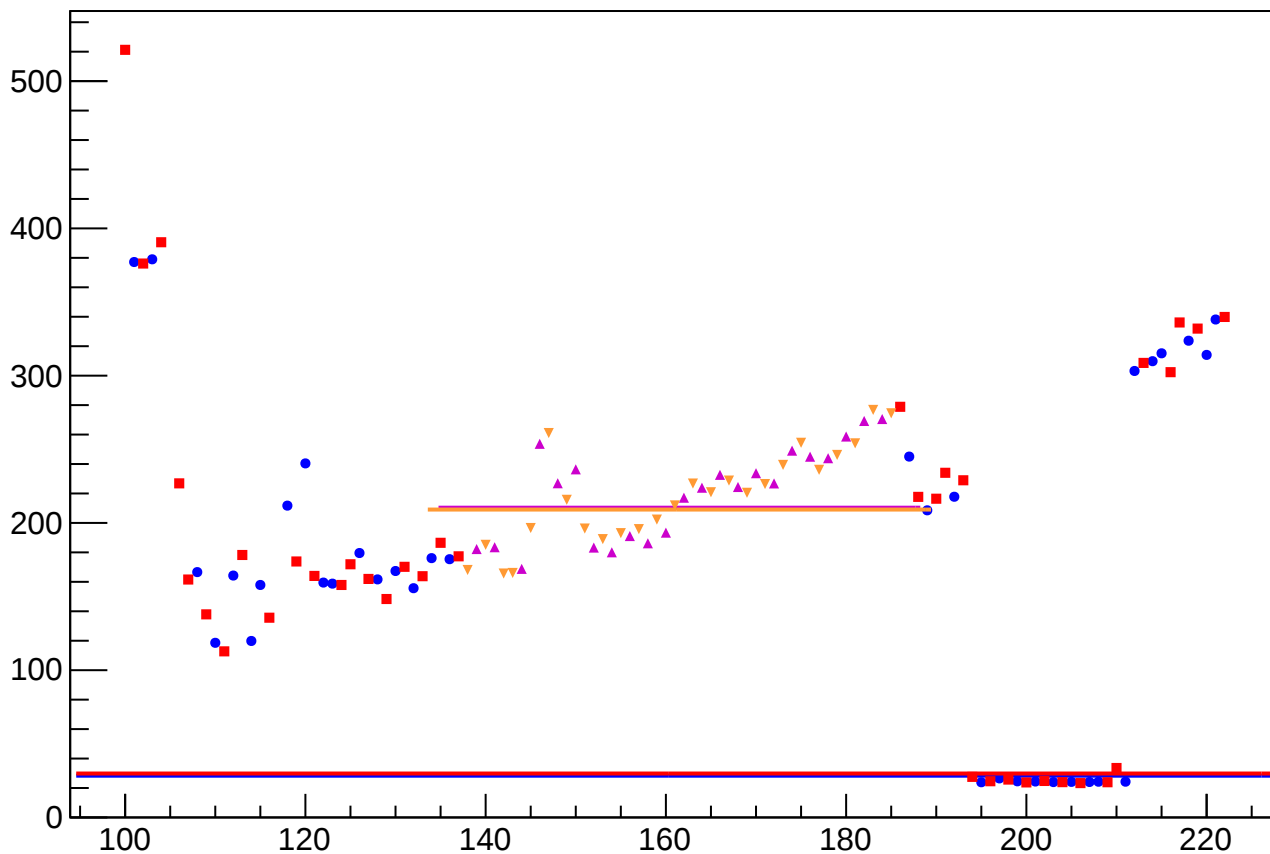
All: 204.924+/-0.017 χ^2/NDF : 9979362.8/120

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10109.592 $\pm$ 0.009	χ^2 /NDF: 6853998791166.9/34	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: -9303.184 $\pm$ 0.007	χ^2 /NDF: 1483560205203
Right Out: -8344.709 $\pm$ 0.010	χ^2 /NDF: 7964819090834.2/37	In: -5088.397 $\pm$ 0.009	χ^2 /NDF: 16417123464969.5
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: -2035.777 $\pm$ 0.010	χ^2 /NDF: 17971178036802
		All: -3687.018 $\pm$ 0.007	χ^2 /NDF: 3444037018

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.369 ± 0.007 $\chi^2/\text{NDF}: 18477001.0/34$

Left Out: 209.076 ± 0.035 $\chi^2/\text{NDF}: 708260.3/24$

Right Out: 29.829 ± 0.007 $\chi^2/\text{NDF}: 19791262.2/37$

Left In: 210.345 ± 0.036 $\chi^2/\text{NDF}: 677747.7/22$

Left: 209.687 ± 0.025 $\chi^2/\text{NDF}: 1386640.1/47$

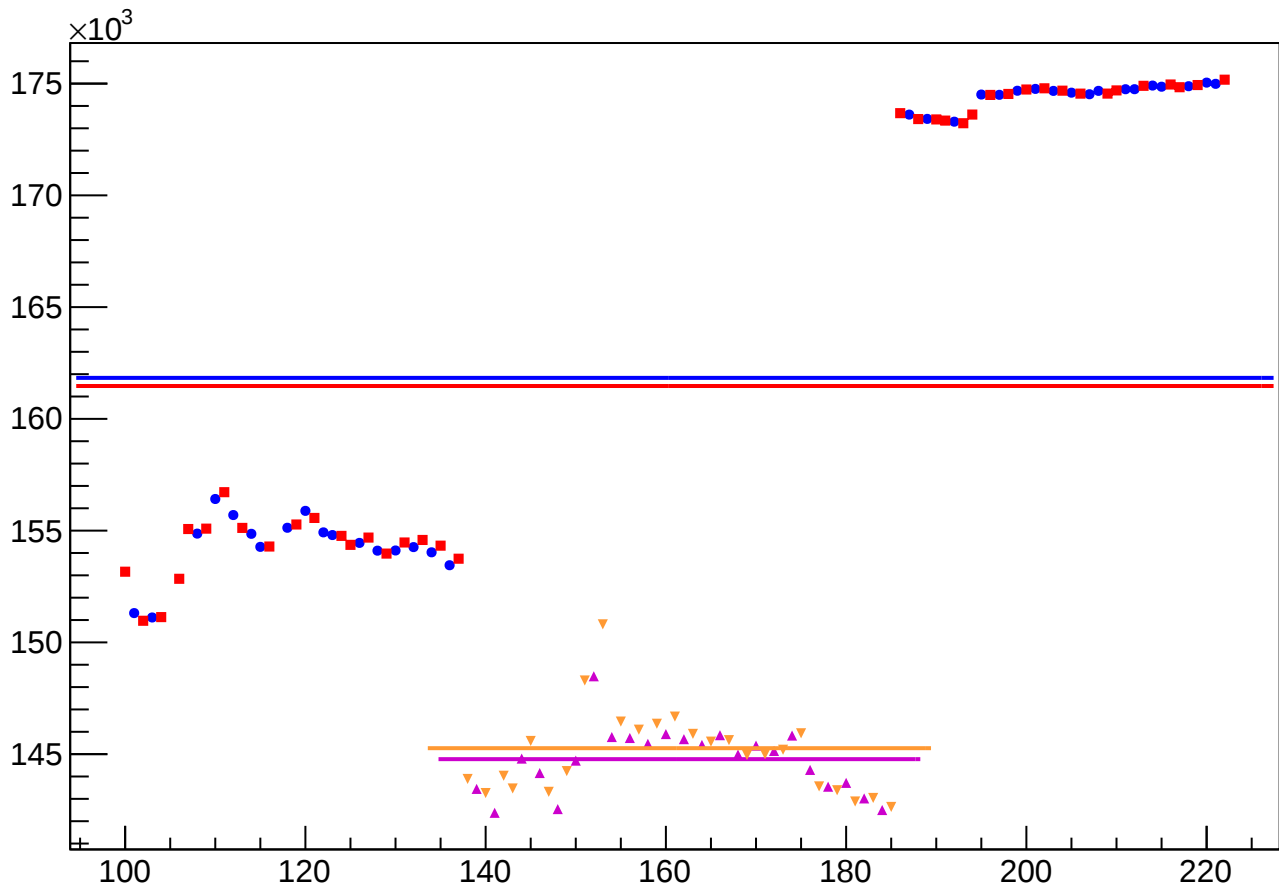
Right: 29.036 ± 0.005 $\chi^2/\text{NDF}: 38291241.6/72$

In: 34.028 ± 0.006 $\chi^2/\text{NDF}: 43442933.0/57$

Out: 36.904 ± 0.007 $\chi^2/\text{NDF}: 45666963.3/62$

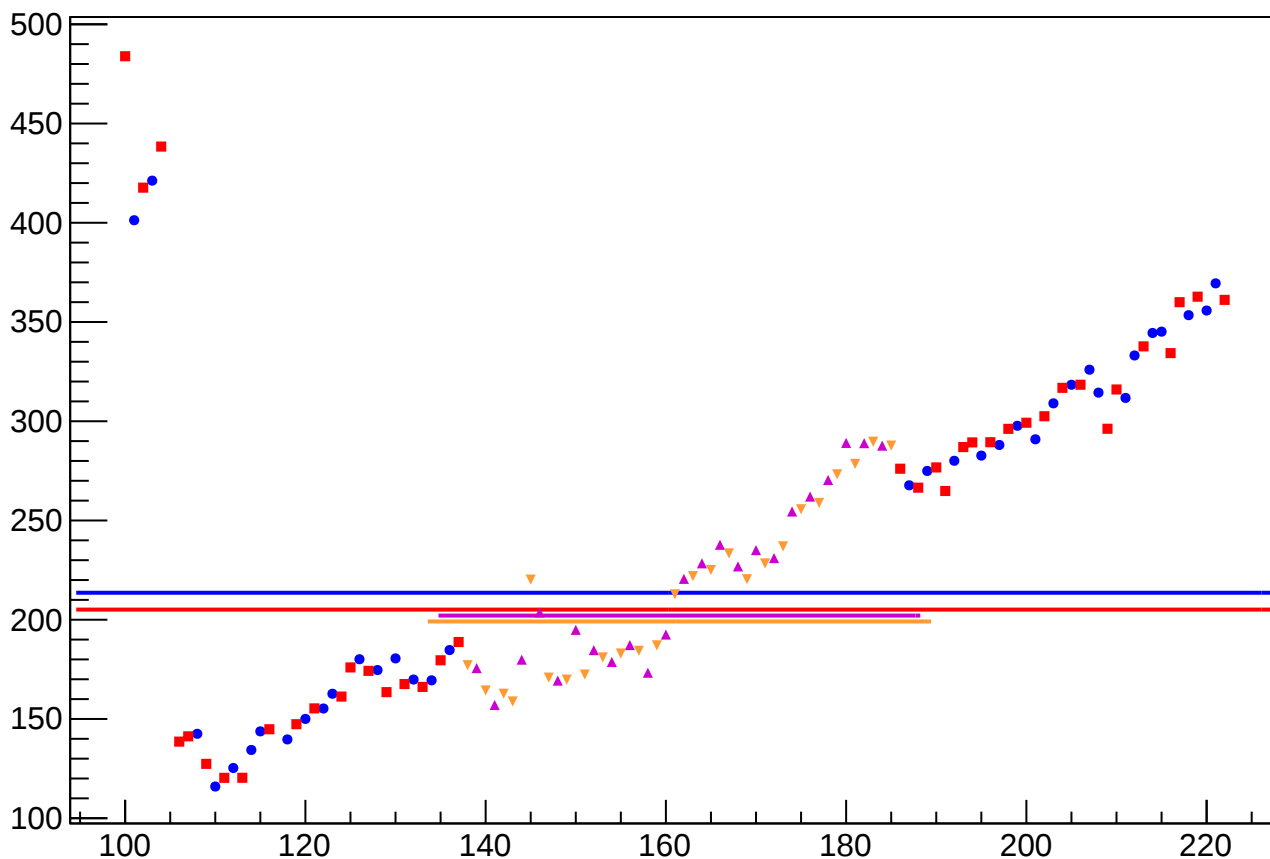
All: 35.348 ± 0.005 $\chi^2/\text{NDF}: 89202388.5/120$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161834.434 $\pm$ 0.052	χ^2 /NDF: 32726822497.4/34	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 161641.527 $\pm$ 0.036	χ^2 /NDF: 68049612745.7/34
Right Out: 161470.332 $\pm$ 0.049	χ^2 /NDF: 35297289161.1/37	In: 152817.213 $\pm$ 0.036	χ^2 /NDF: 89492075085.6/5
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 153026.255 $\pm$ 0.034	χ^2 /NDF: 92991612497.8/34
		All: 152927.145 $\pm$ 0.025	χ^2 /NDF: 182501387.4/34

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 213.597 $\pm$ 0.037 χ^2 /NDF: 5146708.7/34

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 205.108 $\pm$ 0.035 χ^2 /NDF: 5699998.9/37

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

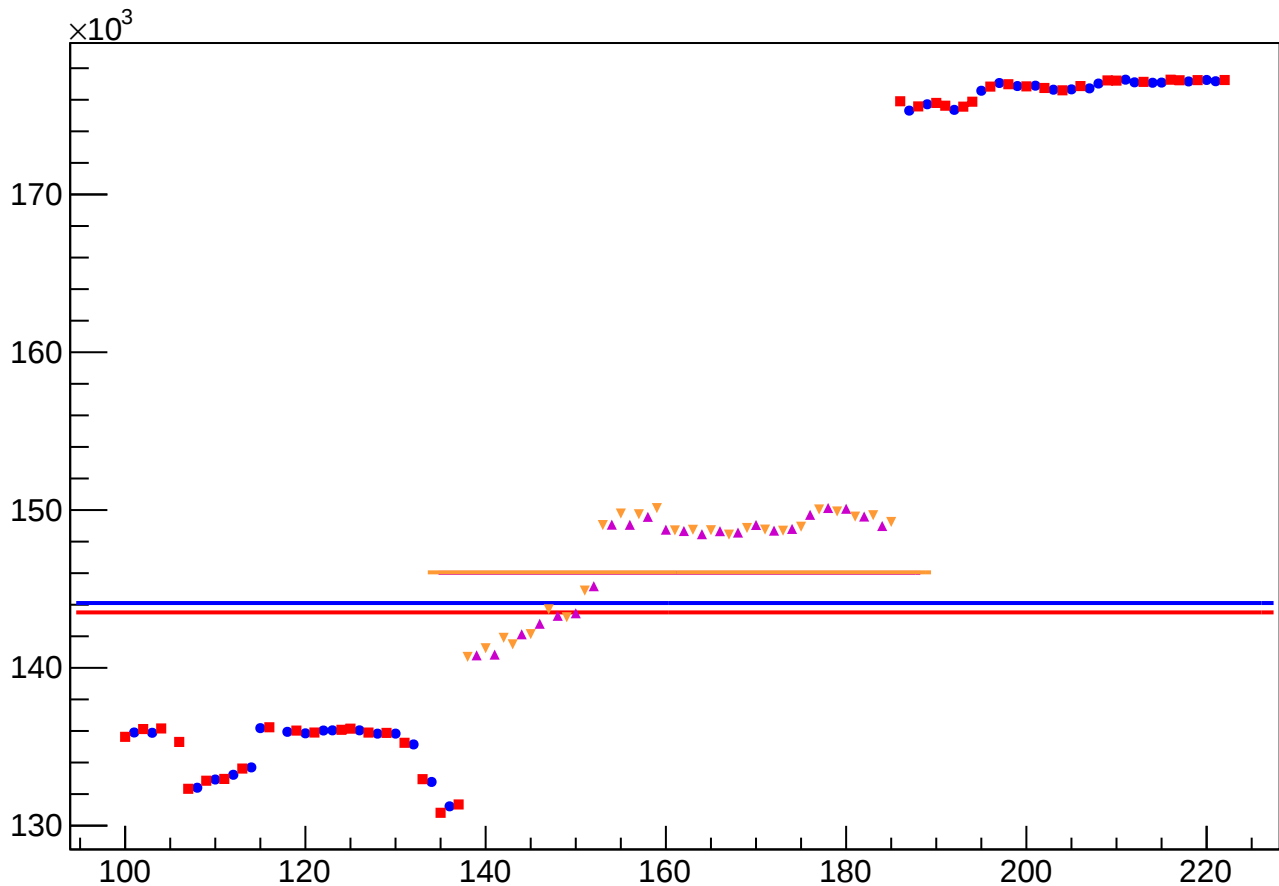
Right: 209.099 $\pm$ 0.025 χ^2 /NDF: 10874433.0/72

In: 207.514 $\pm$ 0.025 χ^2 /NDF:6255363.0/57

Out: 201.986 $\pm$ 0.024 χ^2 /NDF:6867526.7/62

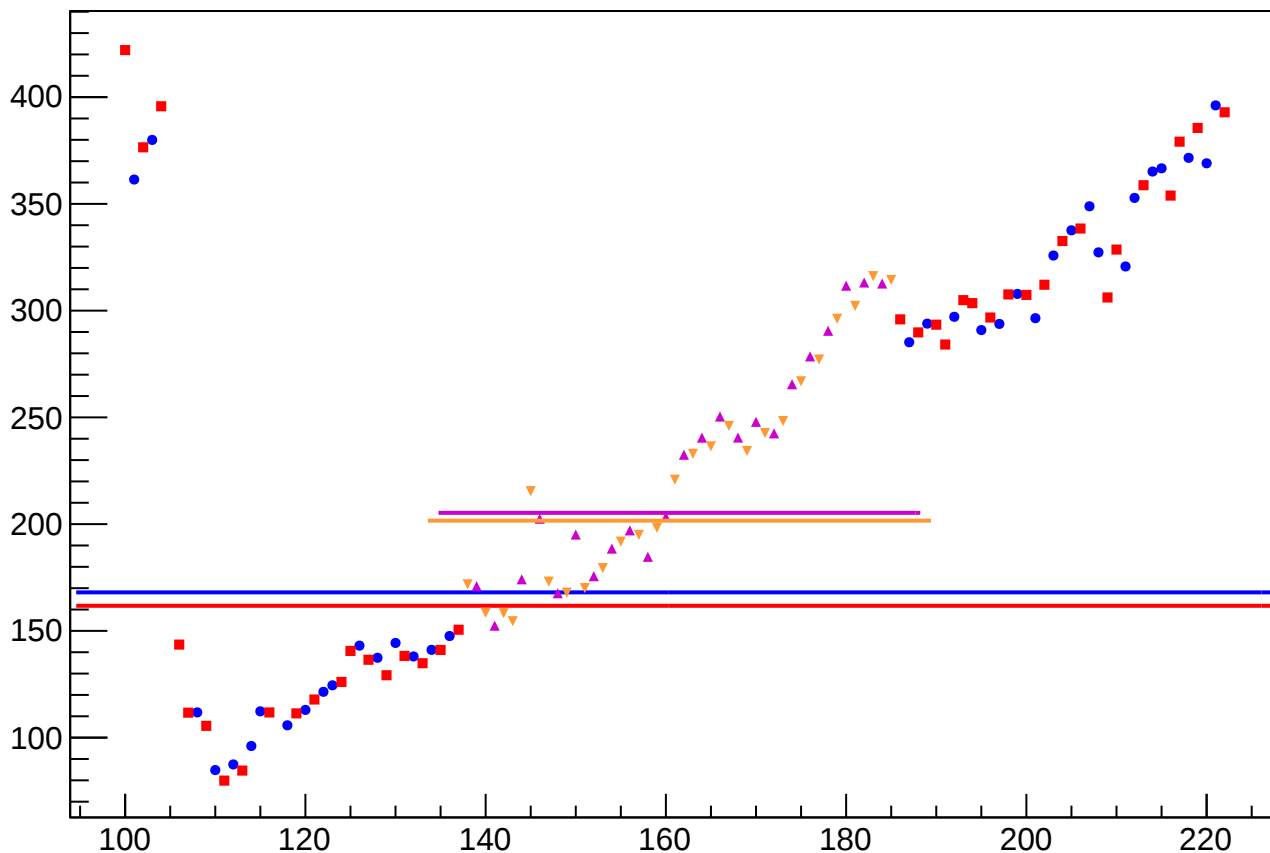
All: 204.607 $\pm$ 0.018 χ^2 /NDF: 13147645.2/12

yield_bpm1i04WS_mean vs Slug, Sign Corrected

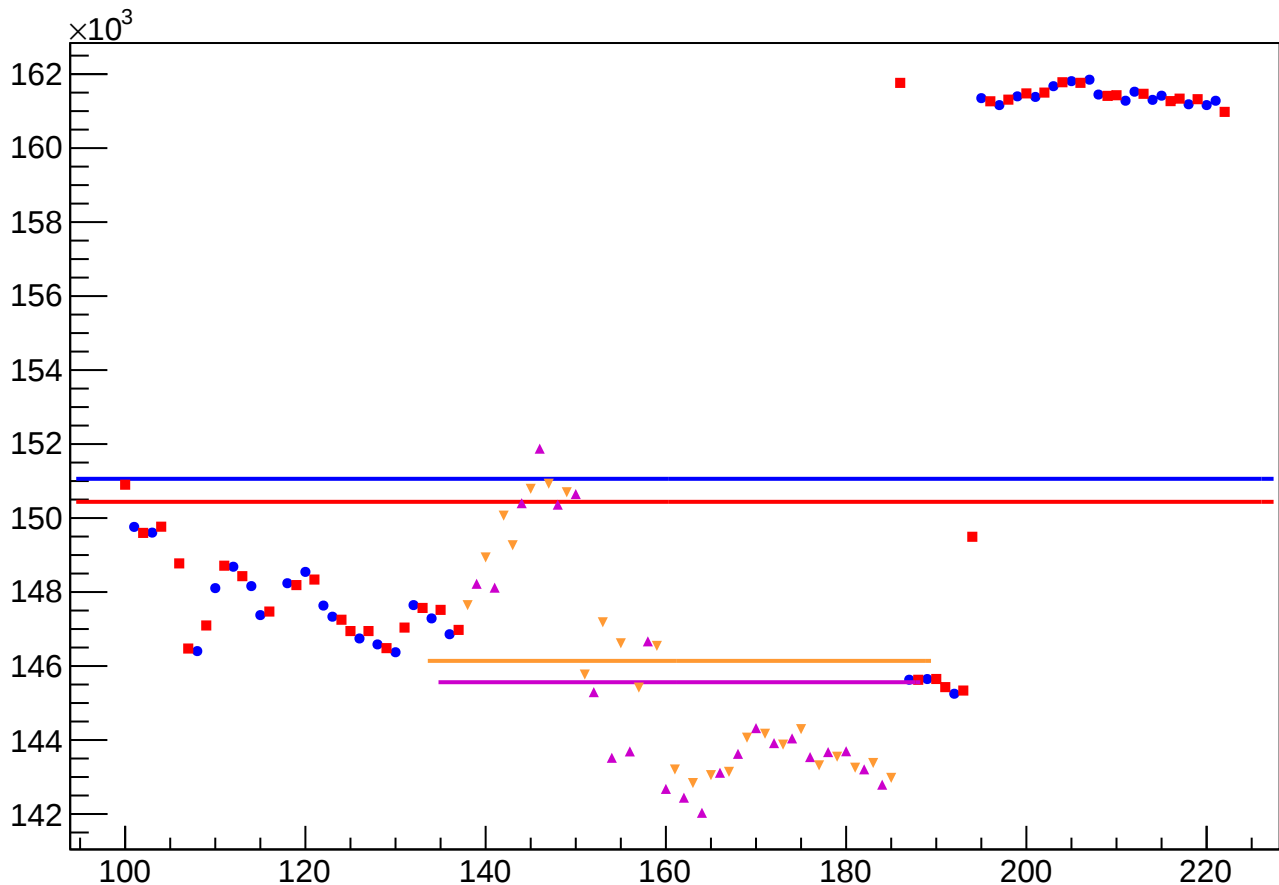


Right In: 144107.849+/-0.044	χ^2/NDF : 165044893101.9/34	Left: 146036.626+/-0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733+/-0.048	χ^2/NDF : 5403300123.1/24	Right: 143794.680+/-0.030	χ^2/NDF : 343005864797
Right Out: 143513.651+/-0.042	χ^2/NDF : 177865665885.0/37	In: 144934.176+/-0.033	χ^2/NDF : 170445574566.2
Left In: 146020.015+/-0.051	χ^2/NDF : 4591425371.4/22	Out: 144602.162+/-0.032	χ^2/NDF : 184845760164.
		All: 144759.665+/-0.023	χ^2/NDF : 355343592

yield_bpm1i04WS_rms vs Slug, Sign Corrected

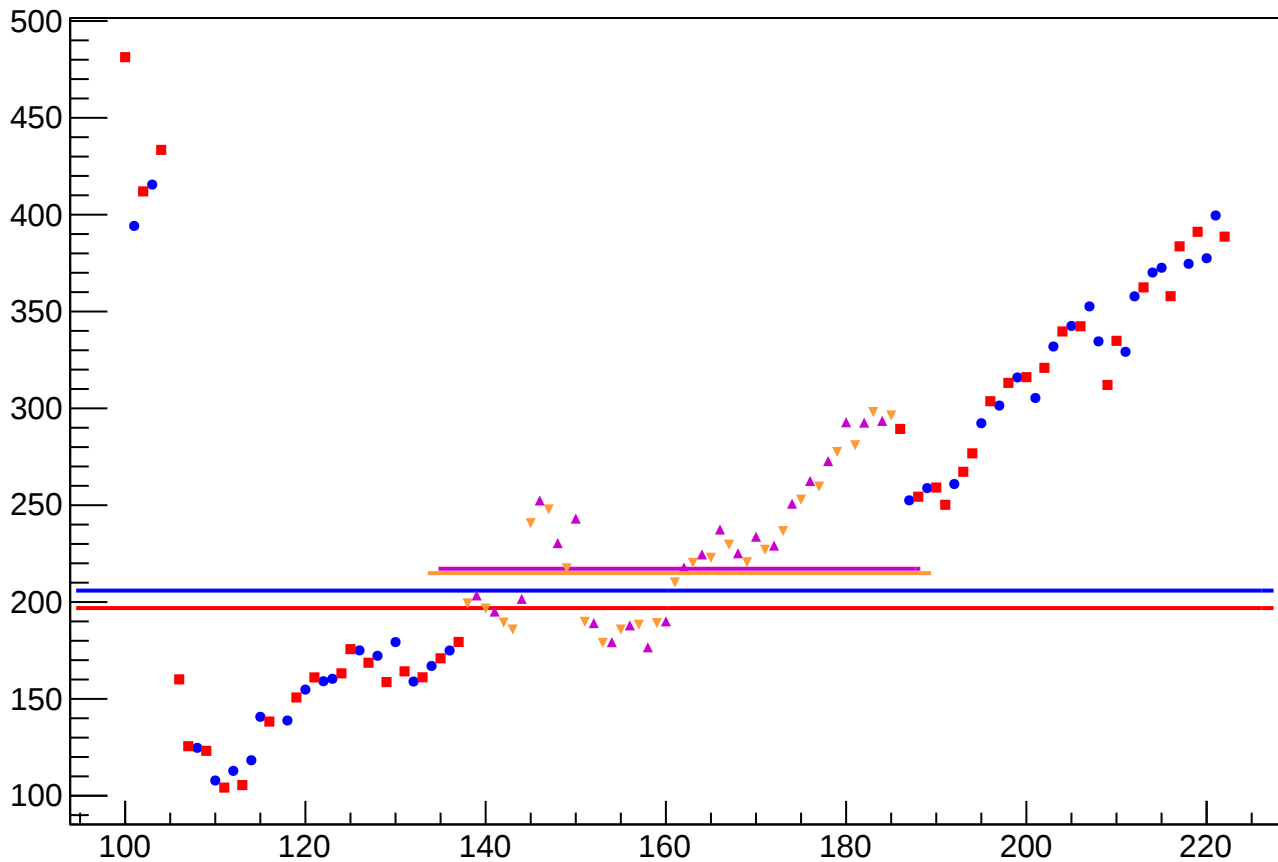


yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 151060.517 $\pm$ 0.052	χ^2 /NDF: 14395632654.9/34	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: 150729.847 $\pm$ 0.035	χ^2 /NDF: 28371666178.0/4
Right Out: 150438.607 $\pm$ 0.048	χ^2 /NDF: 13898850786.3/37	In: 148387.583 $\pm$ 0.037	χ^2 /NDF: 22965976004.0/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148395.475 $\pm$ 0.035	χ^2 /NDF: 20341523850.7/4
		All: 148391.737 $\pm$ 0.025	χ^2 /NDF: 433075238.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 205.912 $\pm$ 0.036 χ^2 /NDF: 6403597.7/34

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 196.892 $\pm$ 0.034 χ^2 /NDF: 6979530.2/37

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

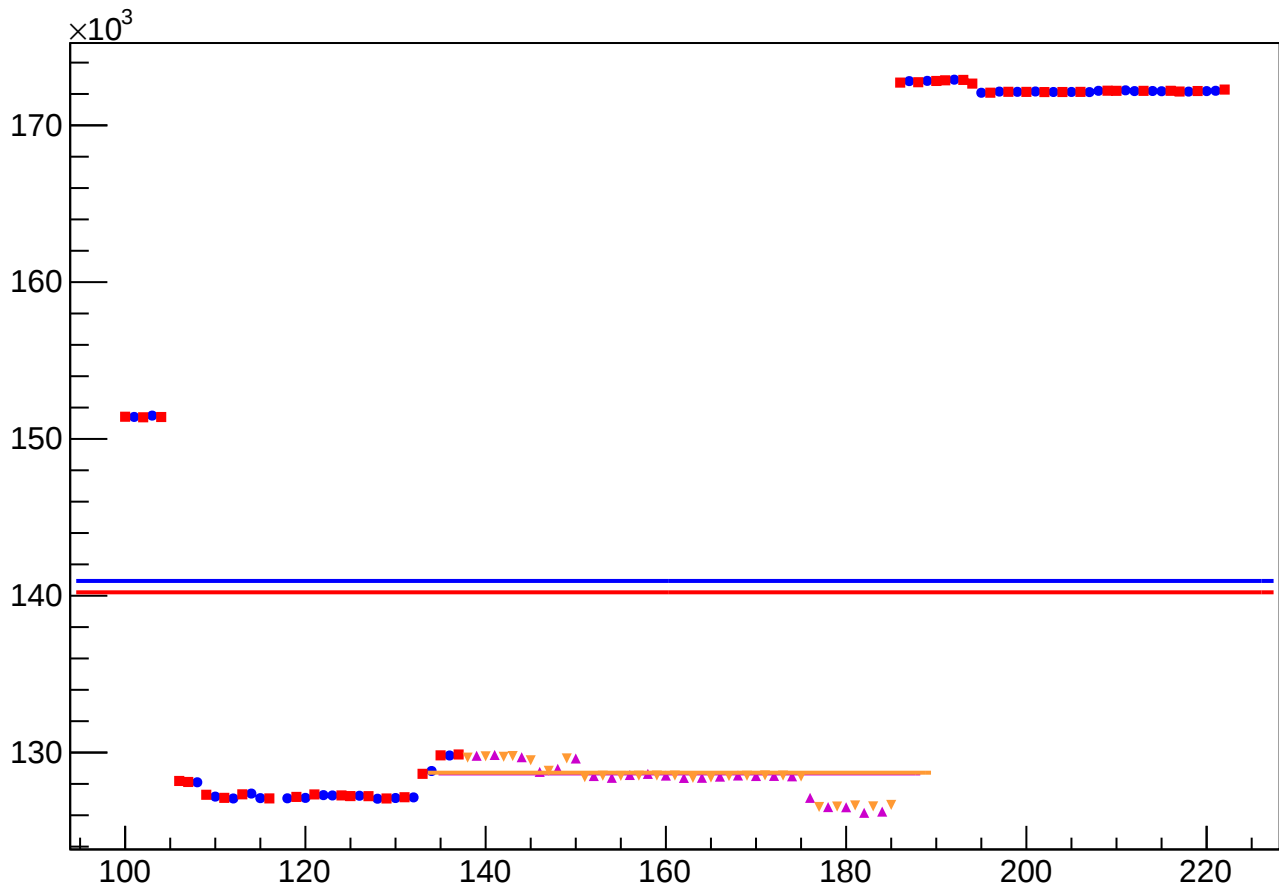
Right: 201.116 $\pm$ 0.025 χ^2 /NDF: 13415599.4/72

In: 211.401 $\pm$ 0.026 χ^2 /NDF: 7214920.7/57

Out: 205.471 $\pm$ 0.025 χ^2 /NDF: 7840042.1/62

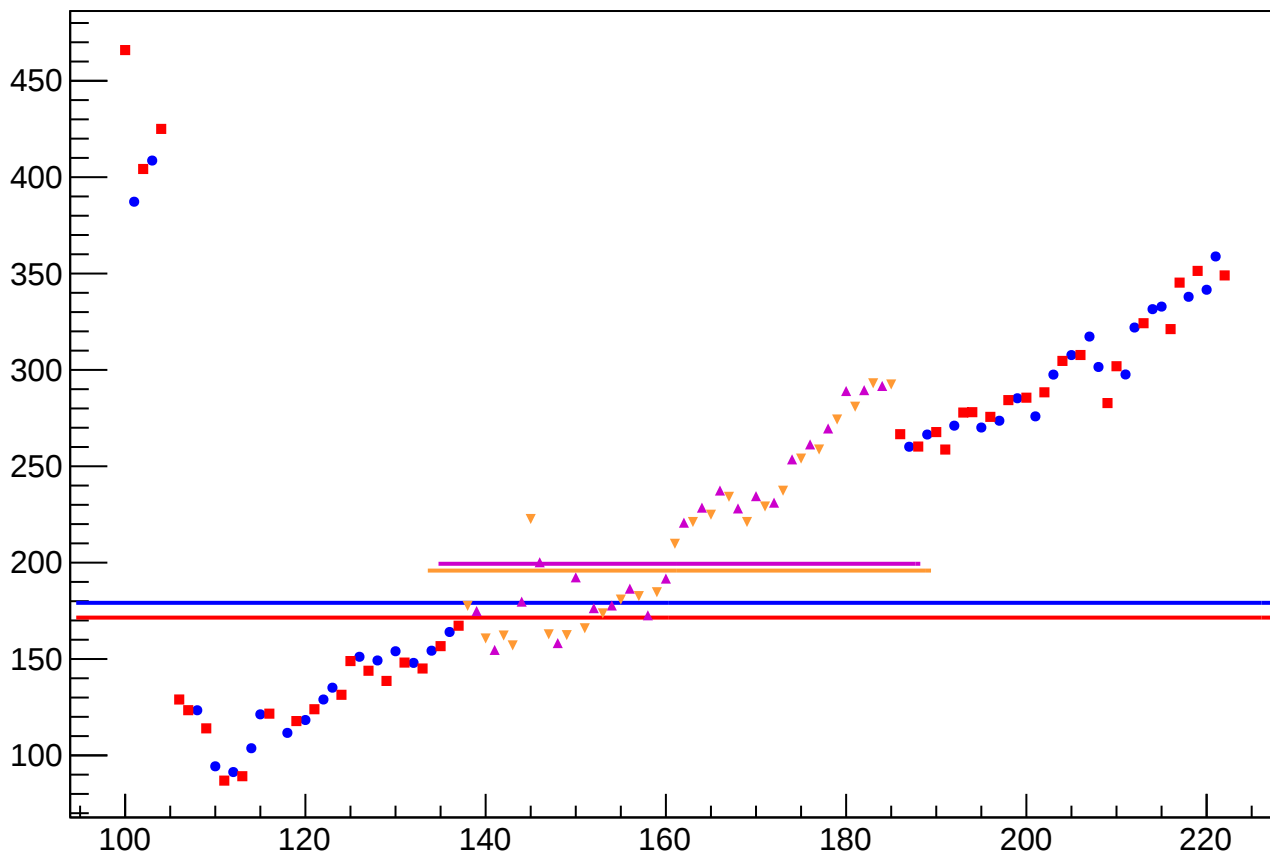
All: 208.279 $\pm$ 0.018 χ^2 /NDF: 15082006.9/12

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140943.559 $\pm$ 0.046 χ^2 /NDF: 199069193405.8/34
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 140218.445 $\pm$ 0.043 χ^2 /NDF: 218744489402.5/37
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/41
 Right: 140558.486 $\pm$ 0.031 χ^2 /NDF: 417947911787
 In: 135243.787 $\pm$ 0.033 χ^2 /NDF: 233040267347.2
 Out: 134958.665 $\pm$ 0.032 χ^2 /NDF: 252032585543
 All: 135093.303 $\pm$ 0.023 χ^2 /NDF: 485111354

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 179.152+/-0.032 χ^2/NDF : 7359824.4/34

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 171.485+/-0.030 χ^2/NDF : 8041111.0/37

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

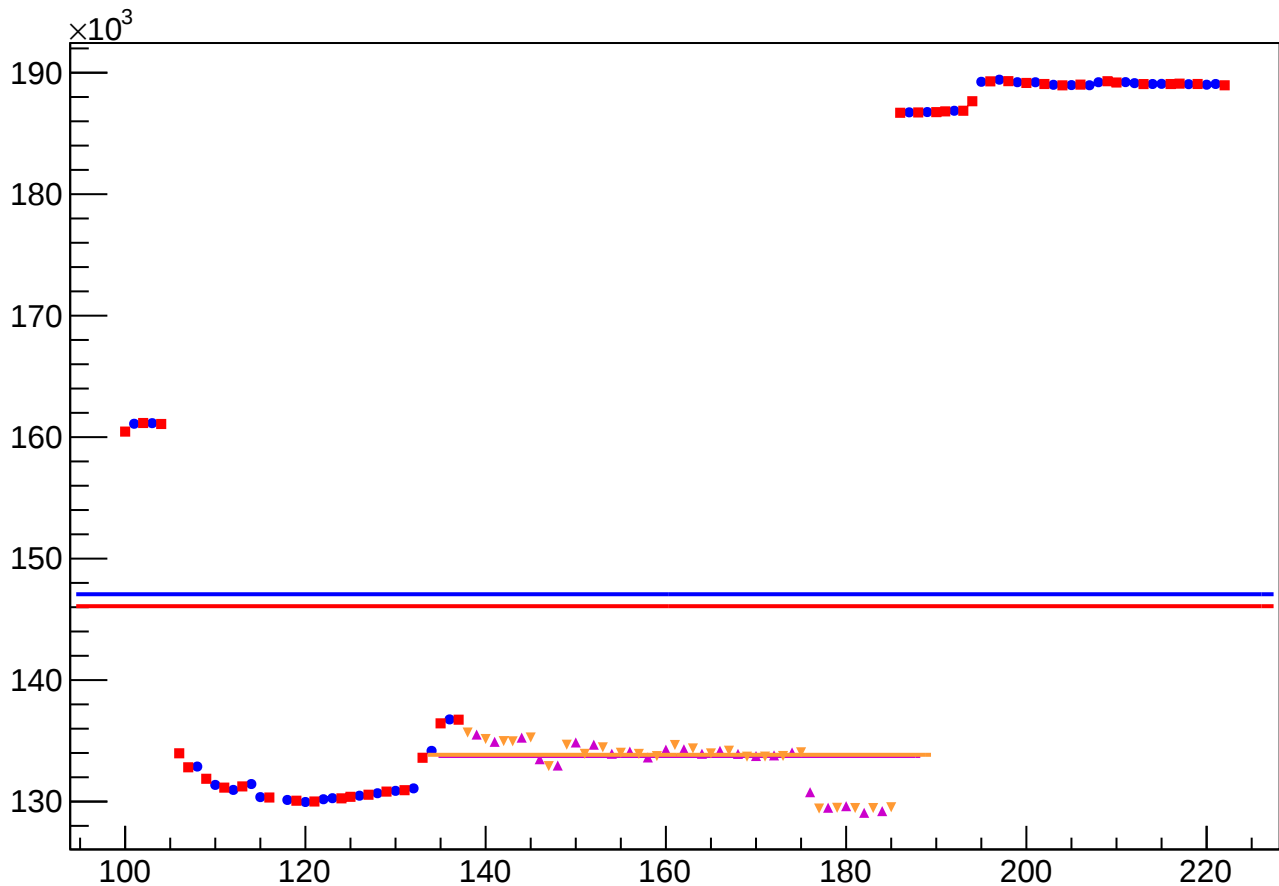
Right: 175.081+/-0.022 χ^2/NDF : 15430948.3/72

In: 188.559+/-0.024 χ^2/NDF :8708772.4/57

Out: 182.640+/-0.022 χ^2/NDF :9650784.6/62

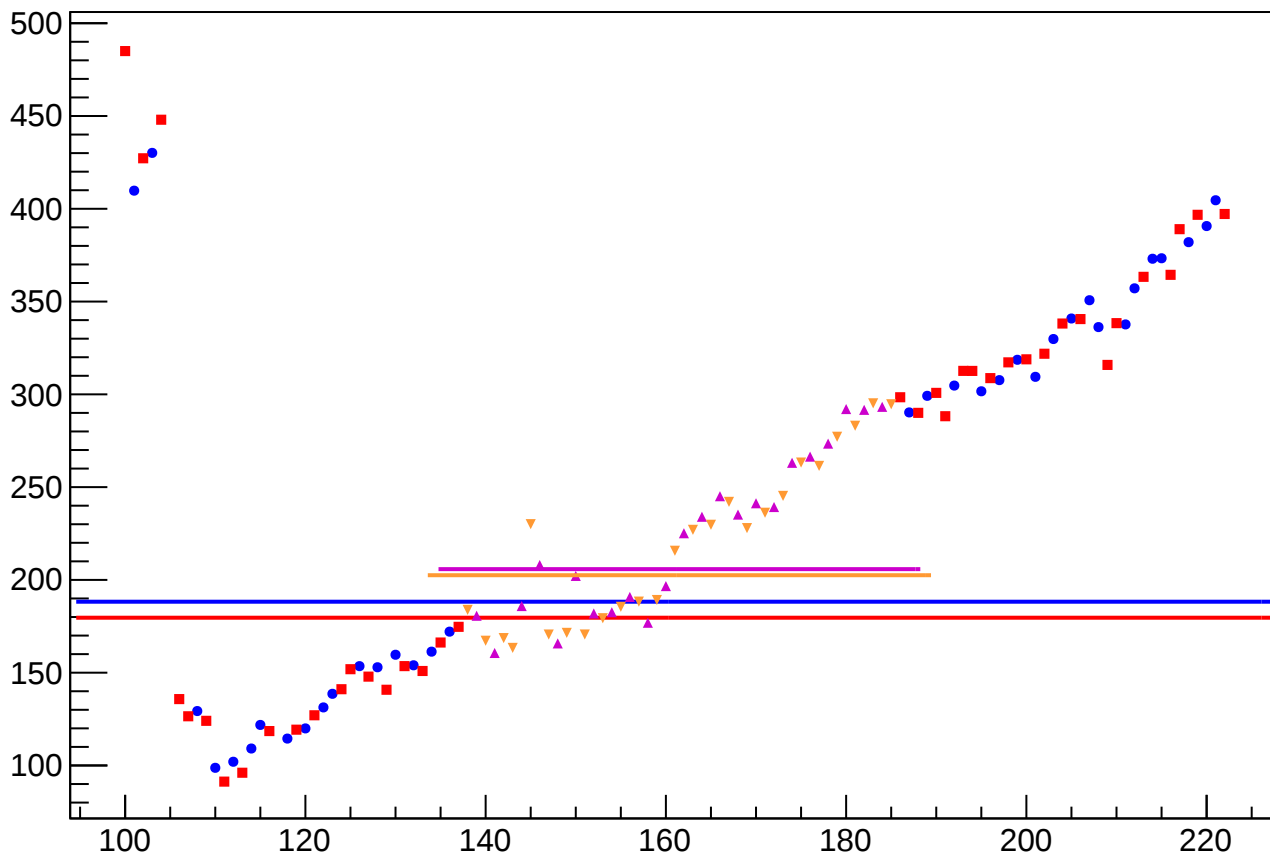
All: 185.435+/-0.016 χ^2/NDF : 18392742.0/12

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 147067.549 $\pm$ 0.049 χ^2 /NDF: 271813280925.4/34
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 146083.269 $\pm$ 0.046 χ^2 /NDF: 293094731283.3/37
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 146543.744 $\pm$ 0.033 χ^2 /NDF: 565126638081
 In: 140670.967 $\pm$ 0.035 χ^2 /NDF: 308891528150.1
 Out: 140317.551 $\pm$ 0.033 χ^2 /NDF: 328196252117.
 All: 140484.394 $\pm$ 0.024 χ^2 /NDF: 637141583

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 188.252 $\pm$ 0.034 χ^2/NDF : 8165879.2/34

Left Out: 202.527 $\pm$ 0.034 χ^2/NDF :1211991.5/24

Right Out: 179.629 $\pm$ 0.032 χ^2/NDF : 8932613.3/37

Left In: 205.808 $\pm$ 0.036 χ^2/NDF :1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2/NDF : 2310735.8/47

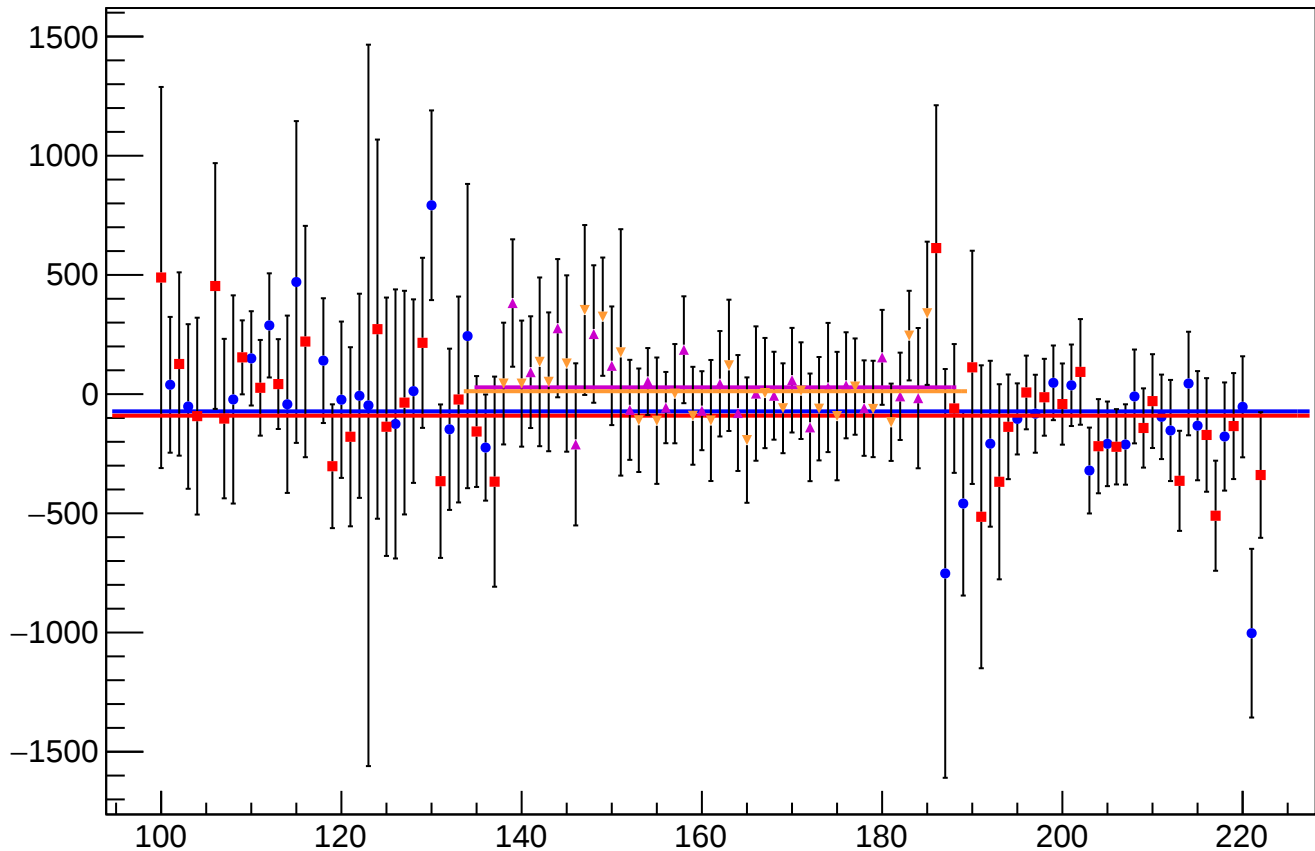
Right: 183.663 $\pm$ 0.023 χ^2/NDF : 17132056.3/72

In: 196.684 $\pm$ 0.025 χ^2/NDF :9385753.0/57

Out: 190.422 $\pm$ 0.023 χ^2/NDF :10383035.1/62

All: 193.378 $\pm$ 0.017 χ^2/NDF : 19802575.7/12

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -72.280 ± 40.806 χ^2/NDF : 24.8/34

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -90.387 ± 40.484 χ^2/NDF : 19.9/37

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

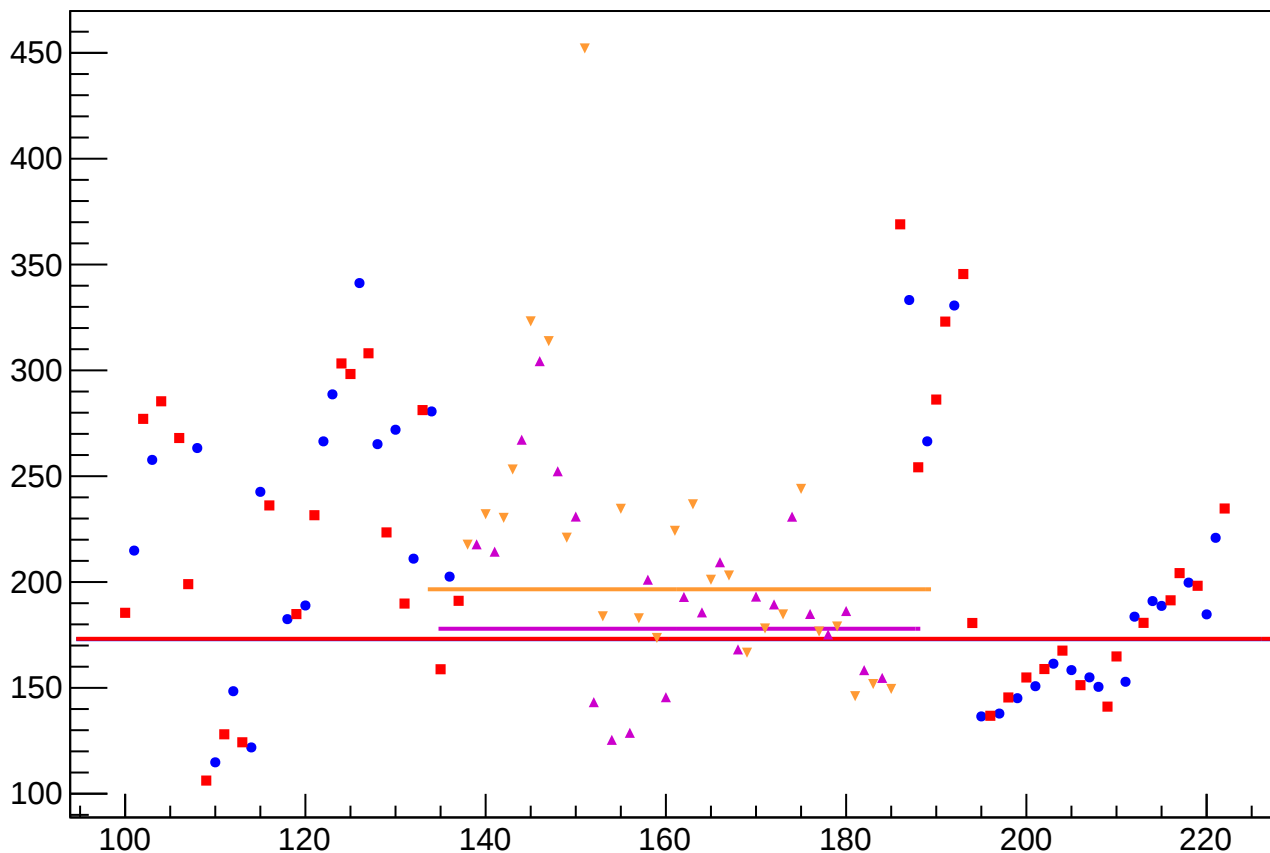
Right: -81.405 ± 28.740 χ^2/NDF : 44.8/72

In: -26.480 ± 30.133 χ^2/NDF : 34.2/57

Out: -47.263 ± 30.820 χ^2/NDF : 31.1/62

All: -36.637 ± 21.546 χ^2/NDF : 65.6/120

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.996 ± 0.029 $\chi^2/\text{NDF}: 2256810.1/34$

Left Out: 196.576 ± 0.034 $\chi^2/\text{NDF}: 1778719.0/24$

Right Out: 173.177 ± 0.029 $\chi^2/\text{NDF}: 3047849.1/37$

Left In: 177.933 ± 0.032 $\chi^2/\text{NDF}: 1605780.8/22$

Left: 186.680 ± 0.023 $\chi^2/\text{NDF}: 3547823.4/47$

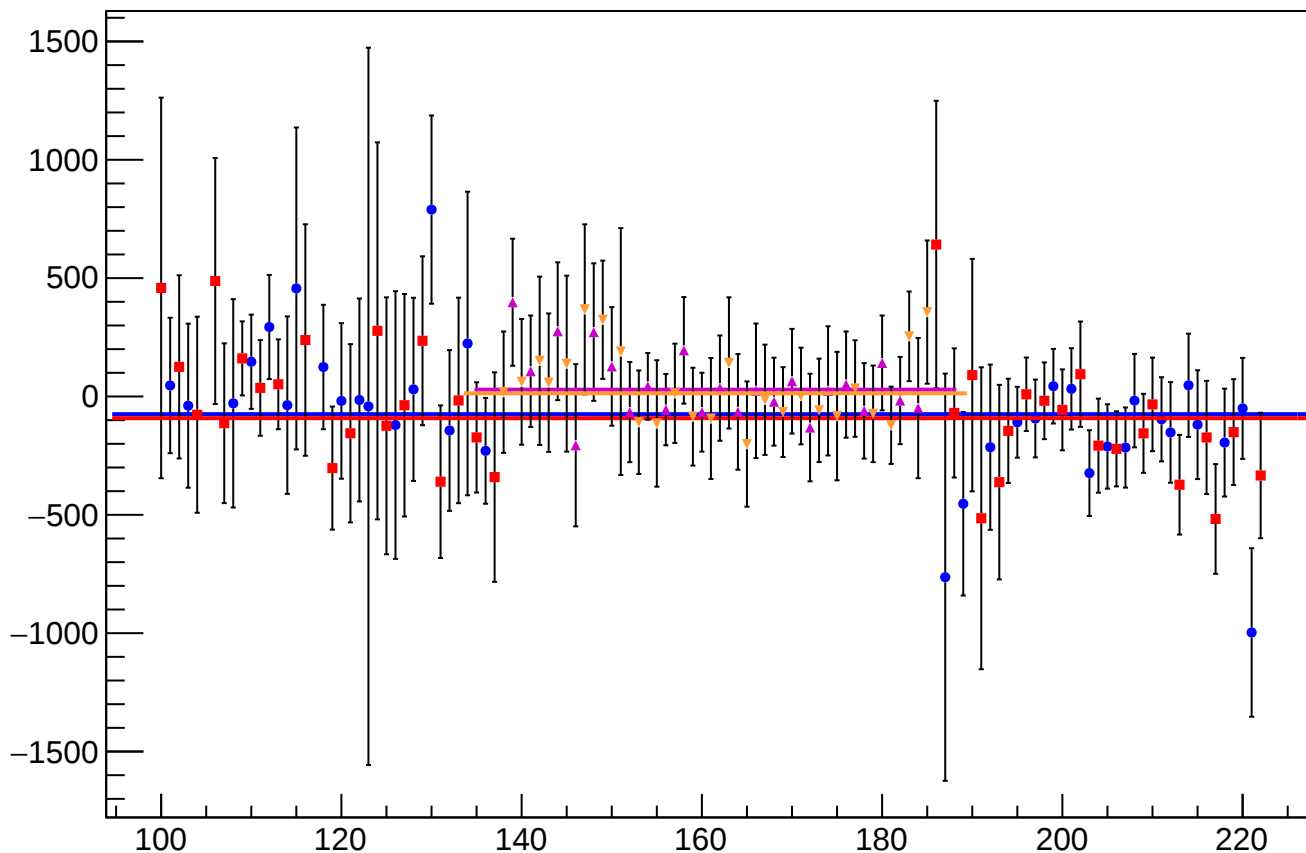
Right: 173.087 ± 0.020 $\chi^2/\text{NDF}: 5304679.1/72$

In: 175.241 ± 0.021 $\chi^2/\text{NDF}: 3875902.7/57$

Out: 183.015 ± 0.022 $\chi^2/\text{NDF}: 5107476.7/62$

All: 179.040 ± 0.015 $\chi^2/\text{NDF}: 9048448.0/120$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -74.738 ± 40.993 χ^2/NDF : 24.5/34

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -91.747 ± 40.681 χ^2/NDF : 20.3/37

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

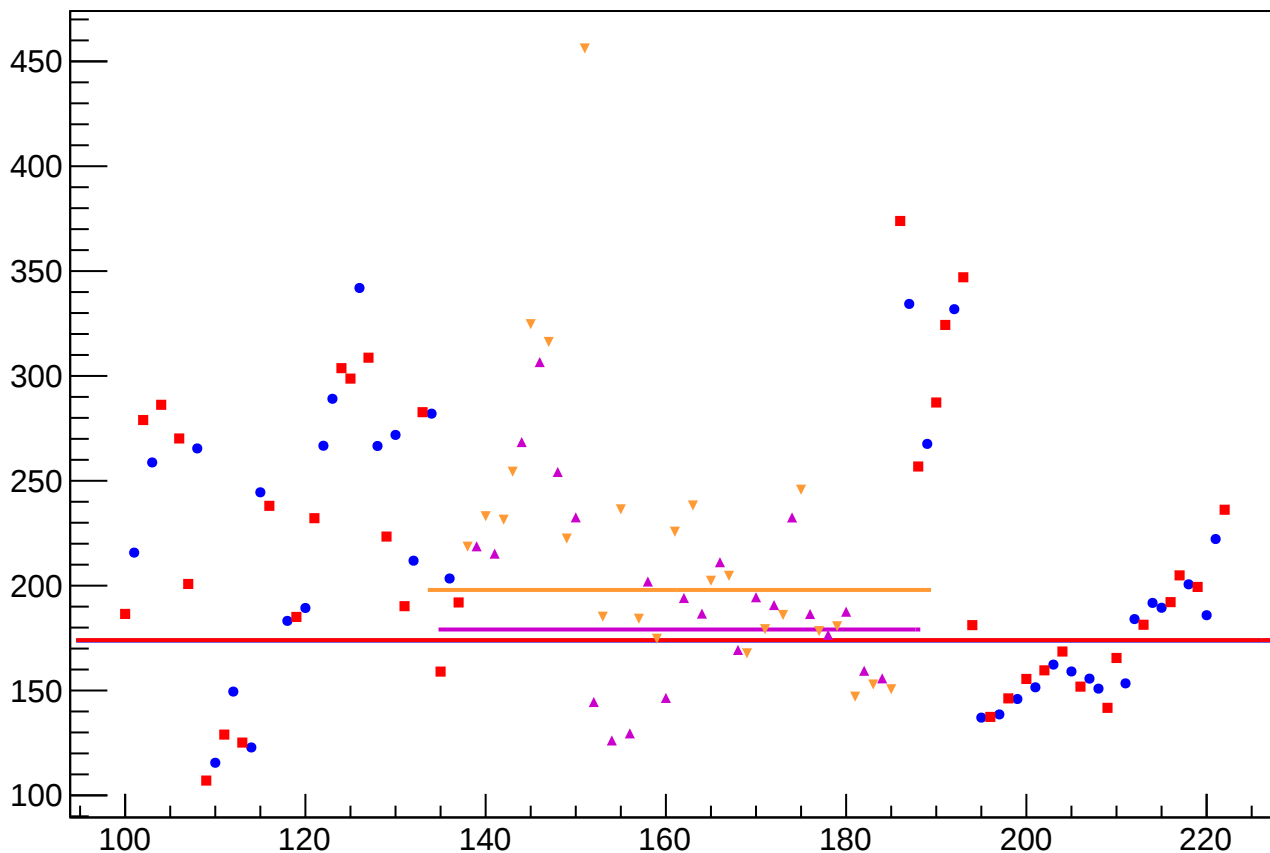
Right: -83.308 ± 28.875 χ^2/NDF : 44.9/72

In: -27.758 ± 30.298 χ^2/NDF : 34.3/57

Out: -47.648 ± 30.997 χ^2/NDF : 32.1/62

All: -37.476 ± 21.667 χ^2/NDF : 66.6/120

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 173.808 $\pm$ 0.029 χ^2 /NDF: 2248783.4/34

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 174.025 $\pm$ 0.029 χ^2 /NDF: 3043991.3/37

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

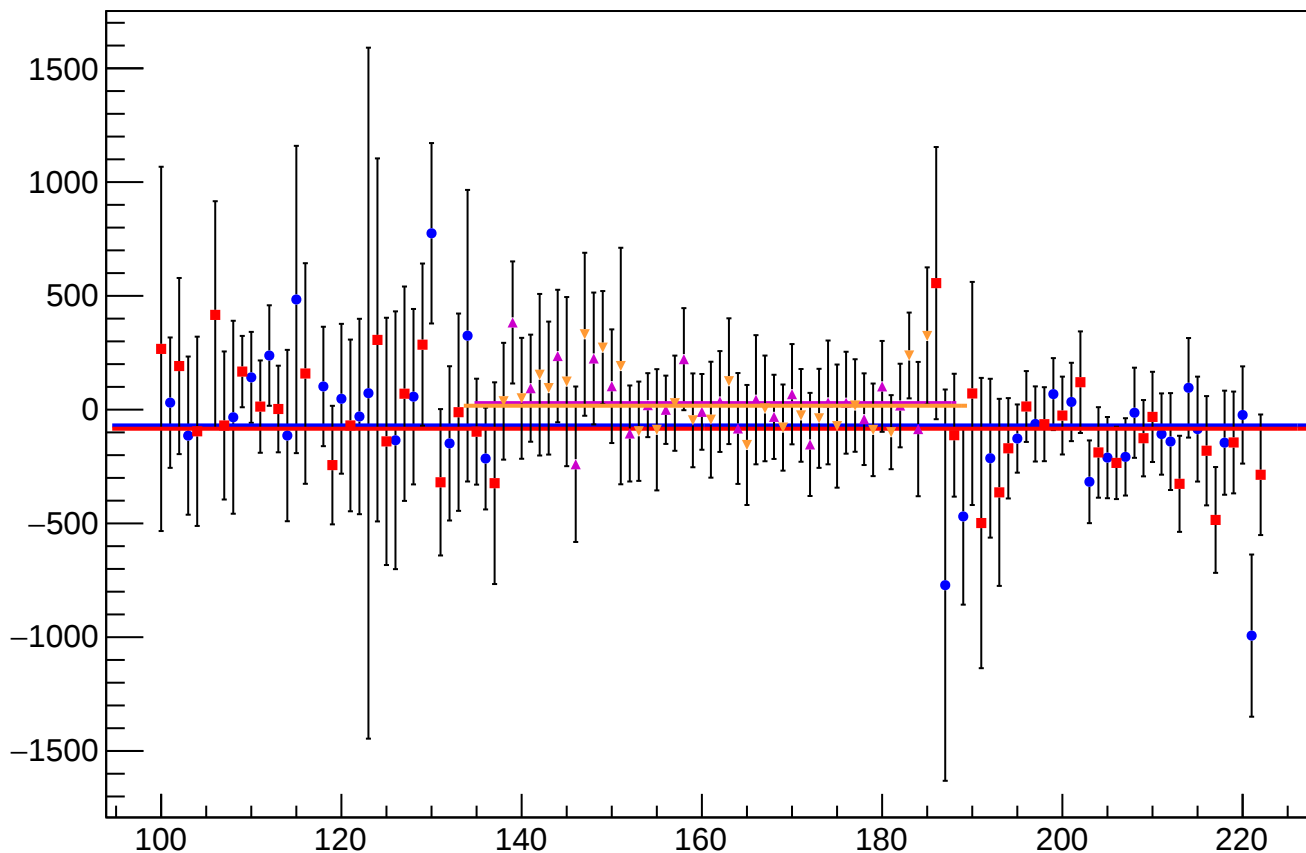
Right: 173.917 $\pm$ 0.020 χ^2 /NDF: 5292802.7/72

In: 176.205 $\pm$ 0.021 χ^2 /NDF:3868958.9/57

Out: 184.061 $\pm$ 0.022 χ^2 /NDF:5108725.3/62

All: 180.043 $\pm$ 0.015 χ^2 /NDF: 9043384.0/120

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -69.358 ± 41.076 $\chi^2/\text{NDF}: 24.0/34$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -83.880 ± 40.715 $\chi^2/\text{NDF}: 17.7/37$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

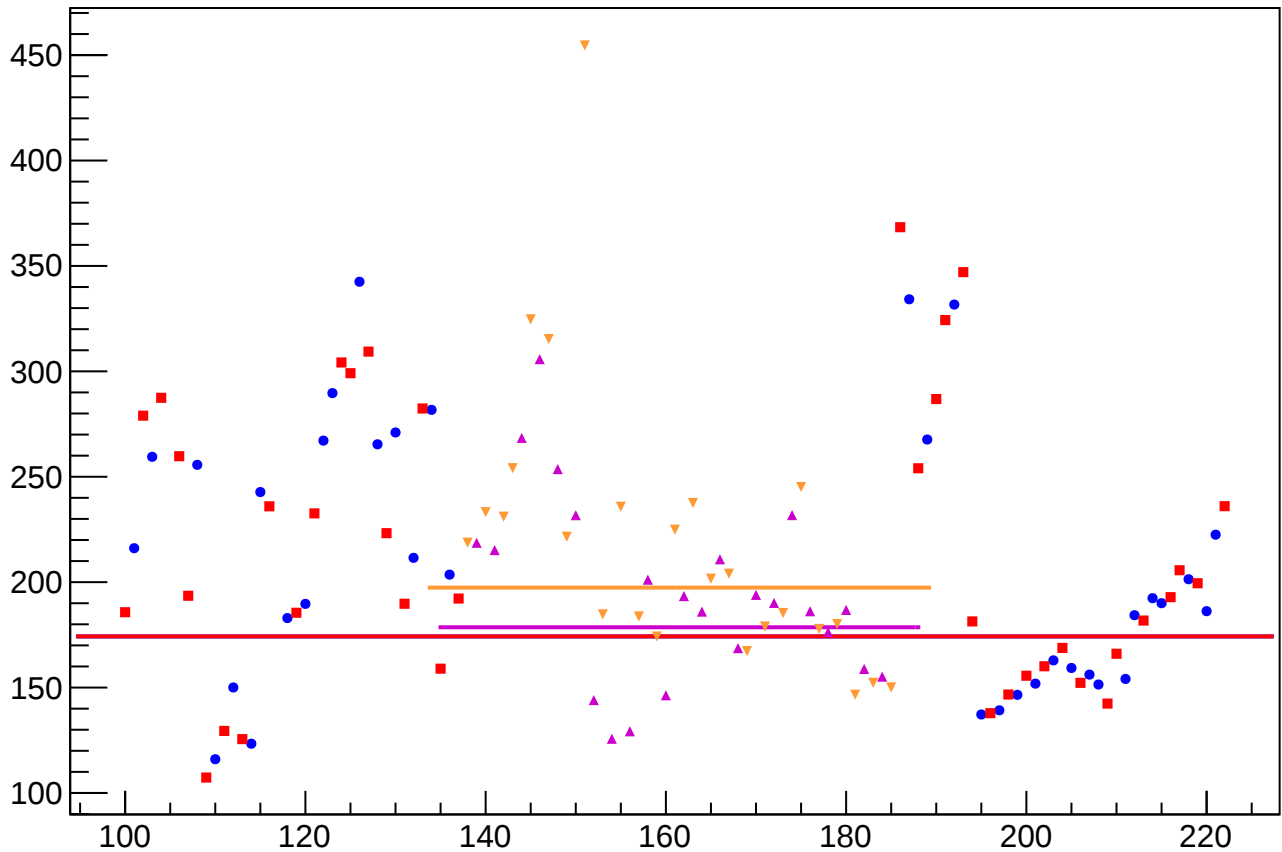
Right: -76.683 ± 28.917 $\chi^2/\text{NDF}: 41.7/72$

In: -24.658 ± 30.294 $\chi^2/\text{NDF}: 32.7/57$

Out: -41.339 ± 30.978 $\chi^2/\text{NDF}: 27.4/62$

All: -32.812 ± 21.659 $\chi^2/\text{NDF}: 60.2/120$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.240 $\pm$ 0.029 χ^2 /NDF: 2216459.8/34

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 174.282 $\pm$ 0.029 χ^2 /NDF: 2996233.0/37

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

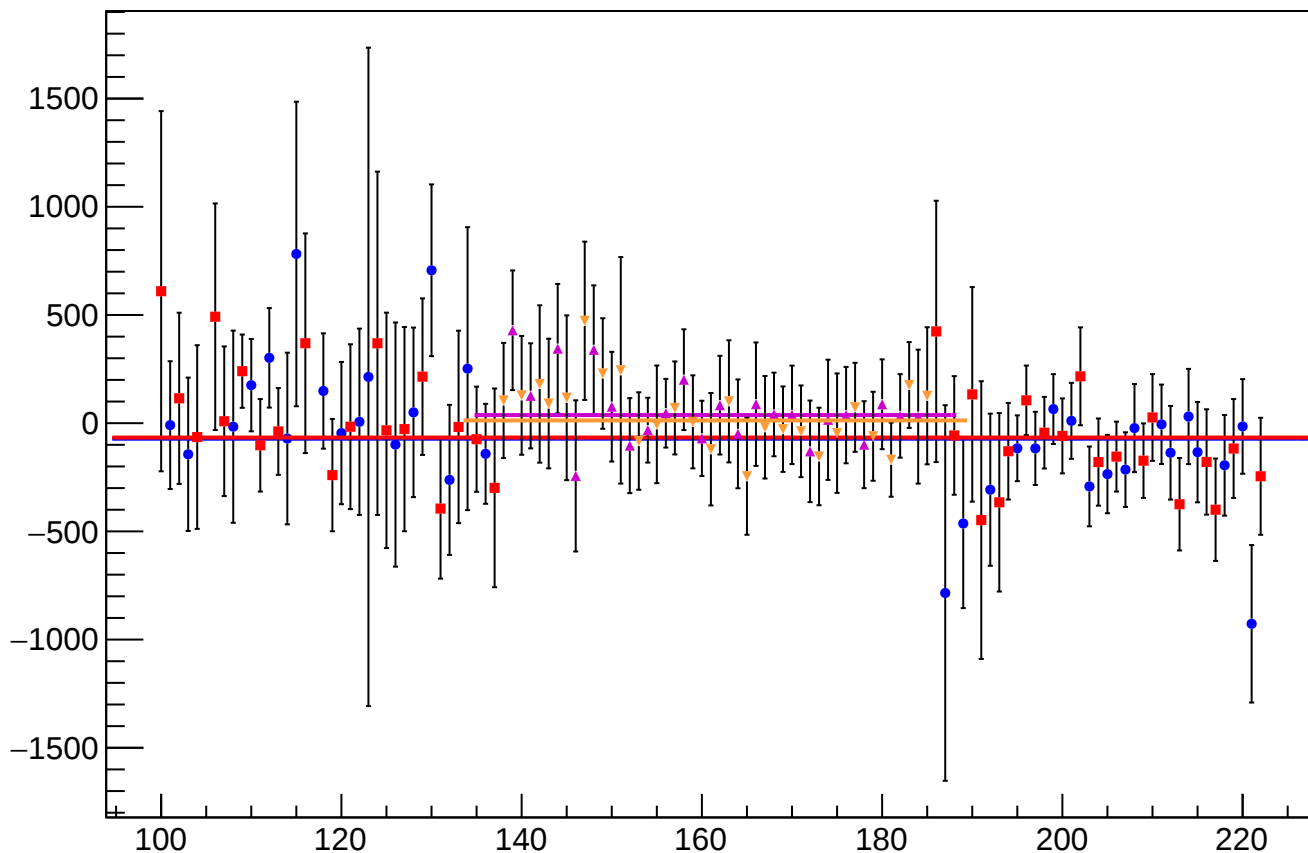
Right: 174.261 $\pm$ 0.020 χ^2 /NDF: 5212693.9/72

In: 176.229 $\pm$ 0.021 χ^2 /NDF:3835742.1/57

Out: 184.026 $\pm$ 0.022 χ^2 /NDF:5048521.6/62

All: 180.041 $\pm$ 0.015 χ^2 /NDF: 8949036.3/120

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -71.708 ± 41.945 χ^2/NDF : 23.5/34

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -66.410 ± 41.751 χ^2/NDF : 19.3/37

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

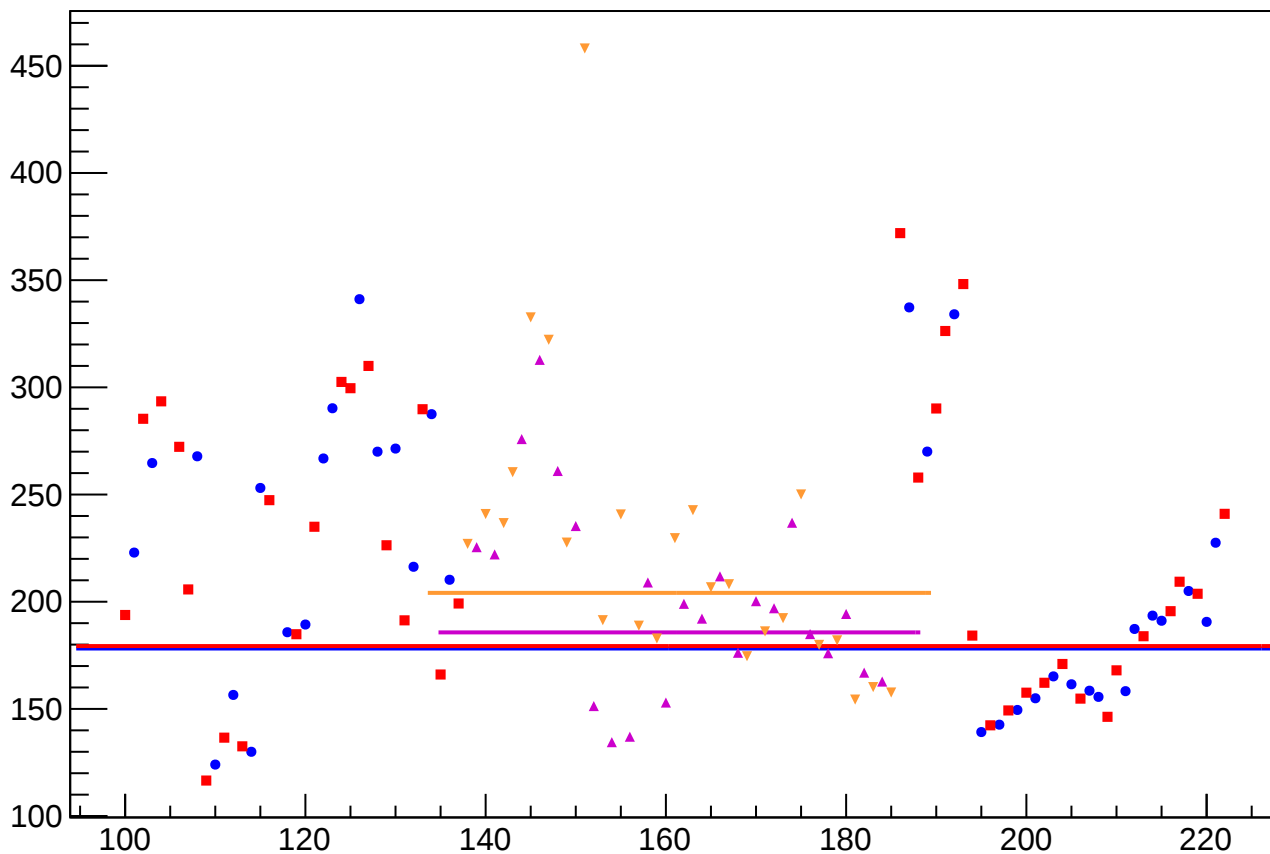
Right: -69.047 ± 29.591 χ^2/NDF : 42.8/72

In: -22.707 ± 31.139 χ^2/NDF : 34.2/57

Out: -33.352 ± 31.845 χ^2/NDF : 28.3/62

All: -27.910 ± 22.264 χ^2/NDF : 62.6/120

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 178.178 ± 0.030 χ^2/NDF : 2130260.3/34

Left Out: 204.132 ± 0.035 χ^2/NDF : 1672287.6/24

Right Out: 179.315 ± 0.030 χ^2/NDF : 2797718.8/37

Left In: 185.694 ± 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 ± 0.024 χ^2/NDF : 3268347.9/47

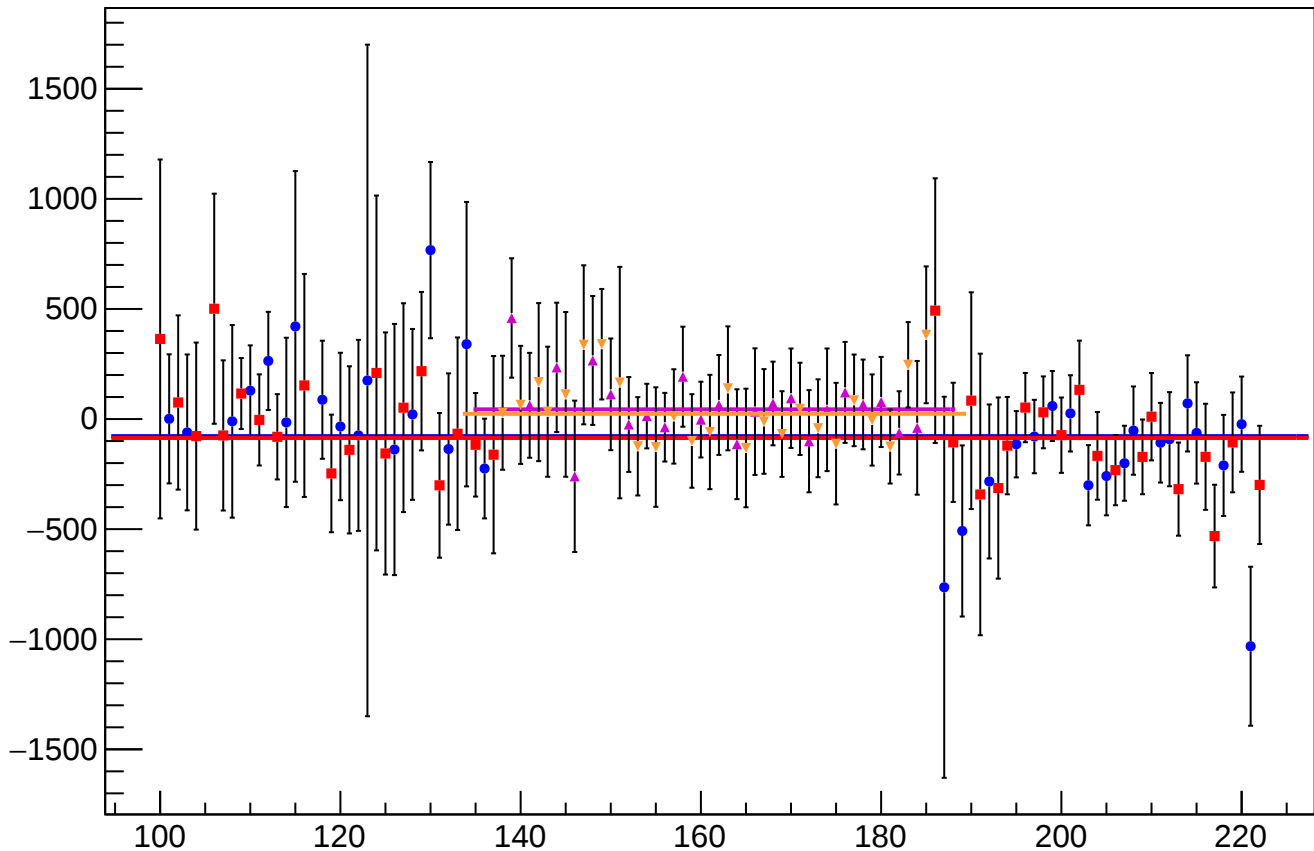
Right: 178.749 ± 0.021 χ^2/NDF : 4928717.5/72

In: 181.552 ± 0.022 χ^2/NDF : 3606848.2/57

Out: 189.694 ± 0.023 χ^2/NDF : 4765531.1/62

All: 185.532 ± 0.016 χ^2/NDF : 8439224.4/120

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -77.646 ± 41.434 χ^2/NDF : 24.1/34

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: -85.902 ± 41.135 χ^2/NDF : 16.4/37

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

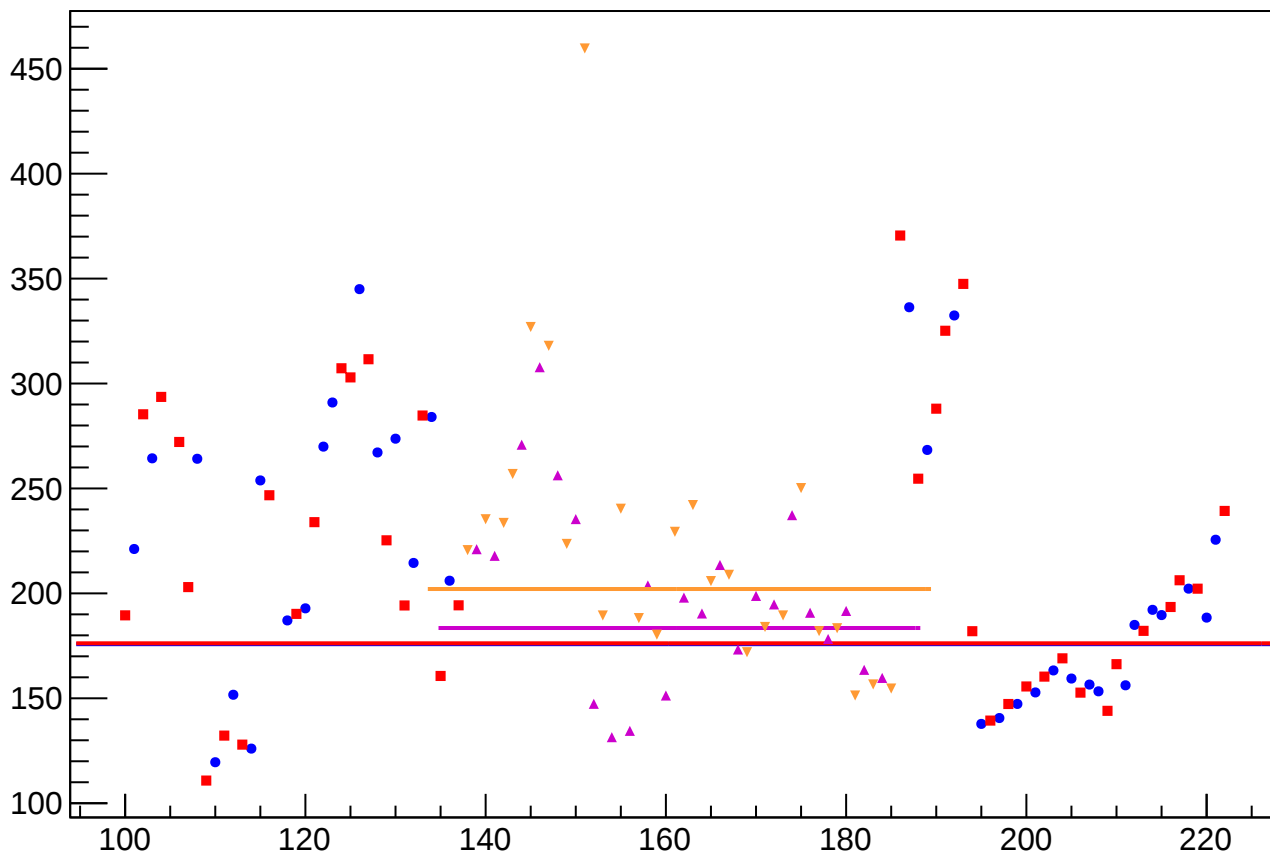
Right: -81.804 ± 29.192 χ^2/NDF : 40.5/72

In: -23.144 ± 30.780 χ^2/NDF : 34.5/57

Out: -40.296 ± 31.447 χ^2/NDF : 27.8/62

All: -31.536 ± 21.997 χ^2/NDF : 62.5/120

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 175.789 $\pm$ 0.029 χ^2/NDF : 2216860.5/34

Left Out: 202.081 $\pm$ 0.034 χ^2/NDF :1692787.9/24

Right Out: 176.207 $\pm$ 0.029 χ^2/NDF : 2972218.6/37

Left In: 183.498 $\pm$ 0.033 χ^2/NDF :1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2/NDF : 3329846.6/47

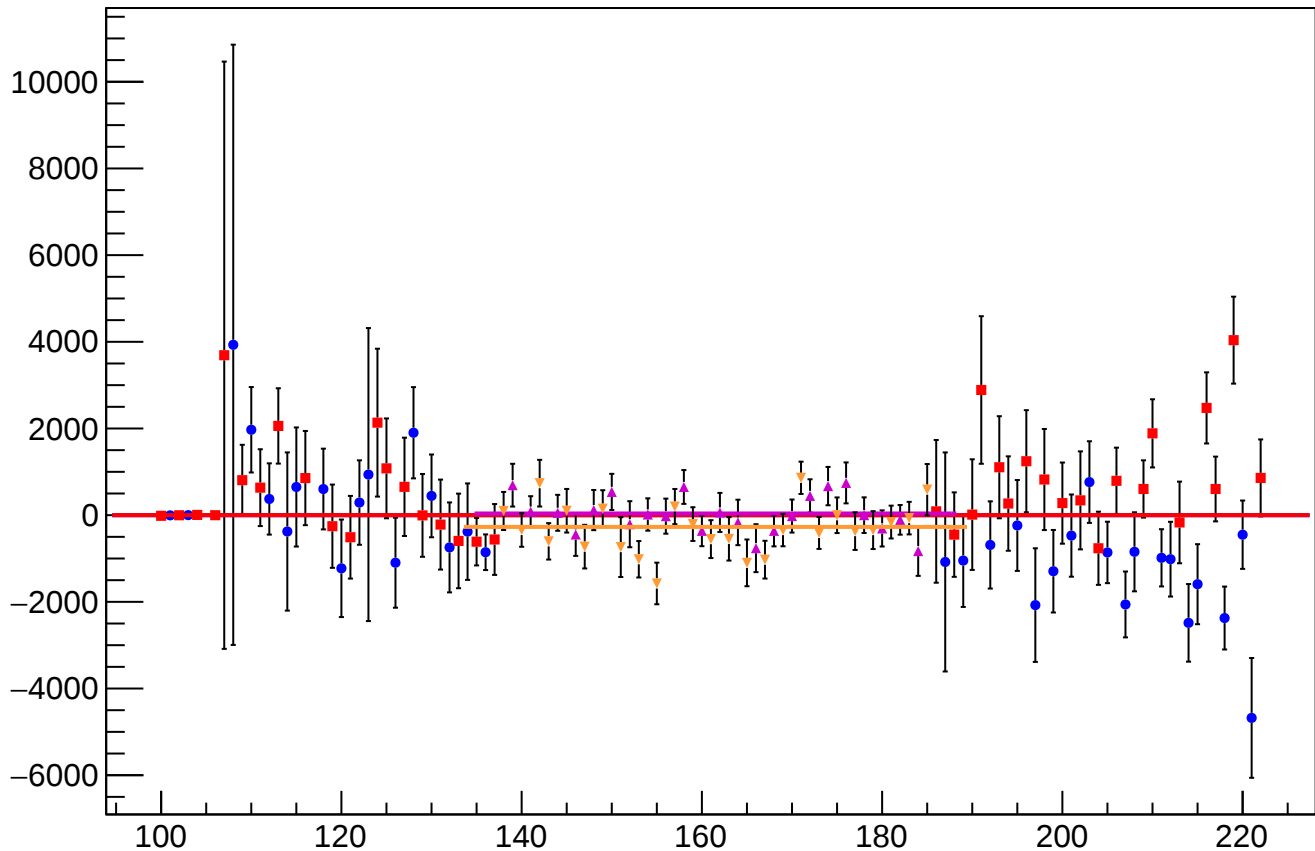
Right: 176.000 $\pm$ 0.021 χ^2/NDF : 5189181.6/72

In: 179.244 $\pm$ 0.022 χ^2/NDF :3731270.3/57

Out: 186.959 $\pm$ 0.022 χ^2/NDF :4993822.3/62

All: 183.019 $\pm$ 0.016 χ^2/NDF : 8786575.2/120

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.665 ± 2.251 χ^2/NDF : 70.7/34

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.806 ± 2.111 χ^2/NDF : 60.4/37

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

Right: -0.350 ± 1.540 χ^2/NDF : 131.7/72

In: -1.639 ± 2.251 χ^2/NDF : 91.2/57

Out: 0.646 ± 2.110 χ^2/NDF : 108.2/62

All: -0.423 ± 1.539 χ^2/NDF : 199.9/120

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.539 $\pm$ 0.002 χ^2 /NDF: 35792778.9/34

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF:622466.1/24

Right Out: 2.509 $\pm$ 0.001 χ^2 /NDF: 37191021.0/37

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

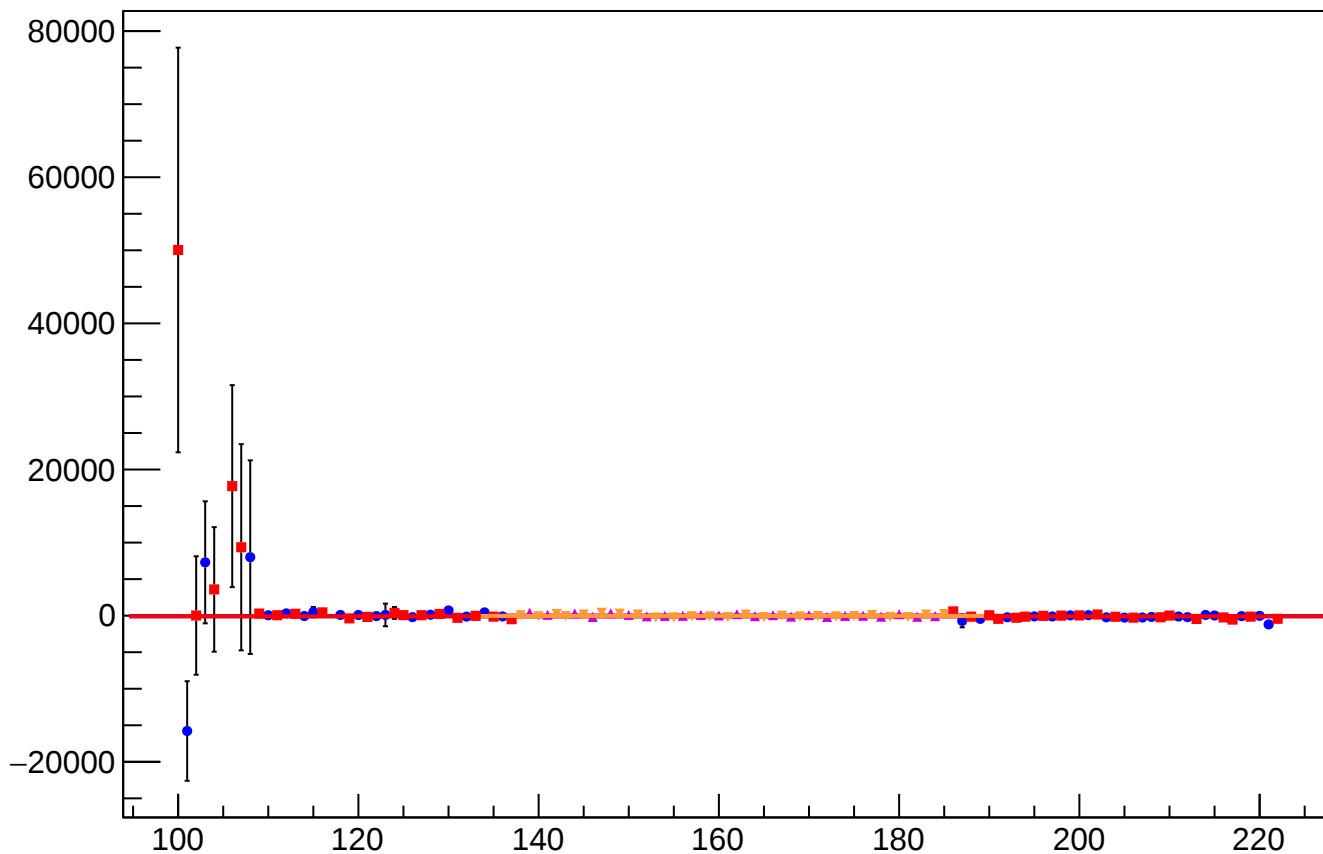
Right: 2.523 $\pm$ 0.001 χ^2 /NDF: 72983987.6/72

In: 2.774 $\pm$ 0.002 χ^2 /NDF:69438660.5/57

Out: 2.725 $\pm$ 0.001 χ^2 /NDF:73193510.3/62

All: 2.748 $\pm$ 0.001 χ^2 /NDF: 142632690.5/120

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -72.542 ± 44.975 χ^2/NDF : 30.4/34

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: -90.256 ± 45.304 χ^2/NDF : 29.7/37

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

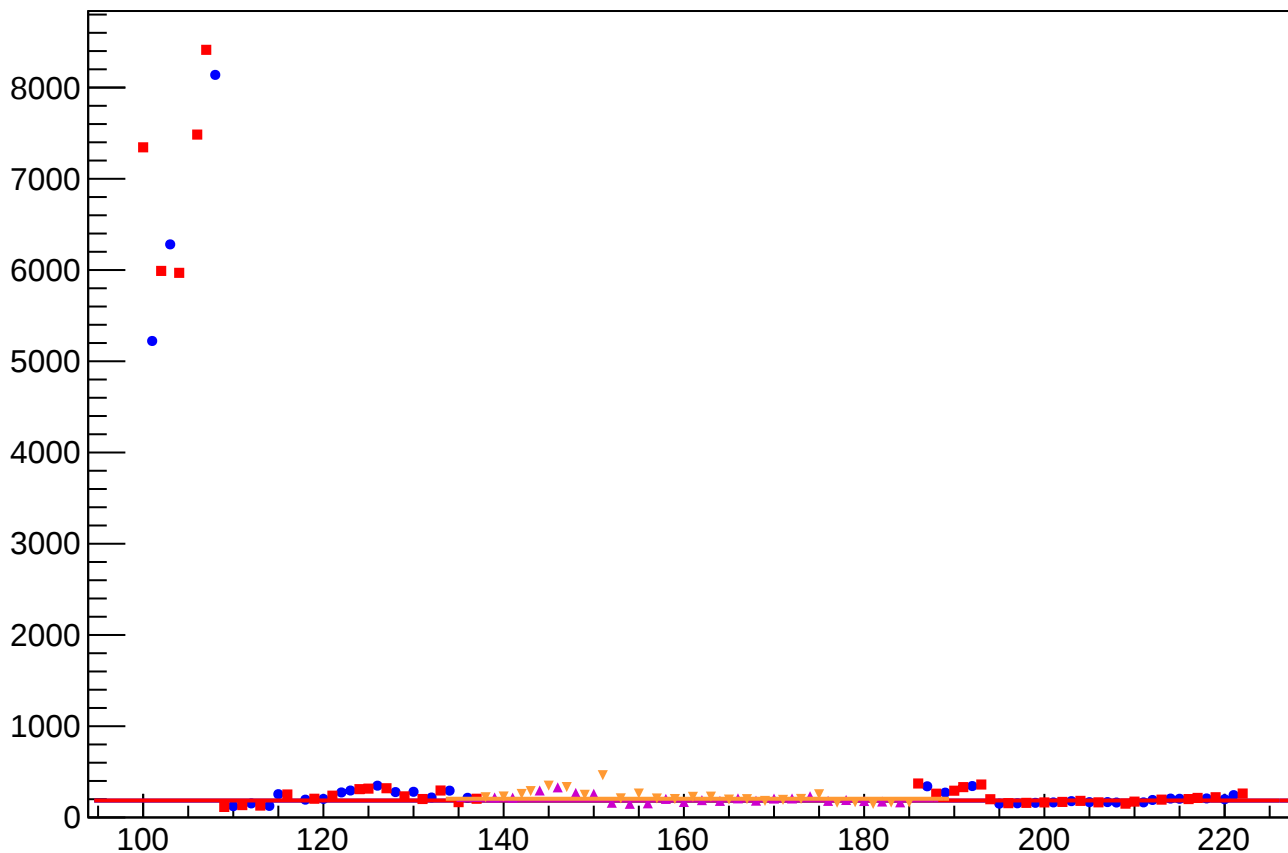
Right: -81.334 ± 31.918 χ^2/NDF : 60.2/72

In: -25.617 ± 32.873 χ^2/NDF : 42.0/57

Out: -66.509 ± 33.459 χ^2/NDF : 39.6/62

All: -45.702 ± 23.449 χ^2/NDF : 82.4/120

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.471+/-0.032 χ^2/NDF : 4663200.7/34

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 186.152+/-0.032 χ^2/NDF : 5655393.4/37

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

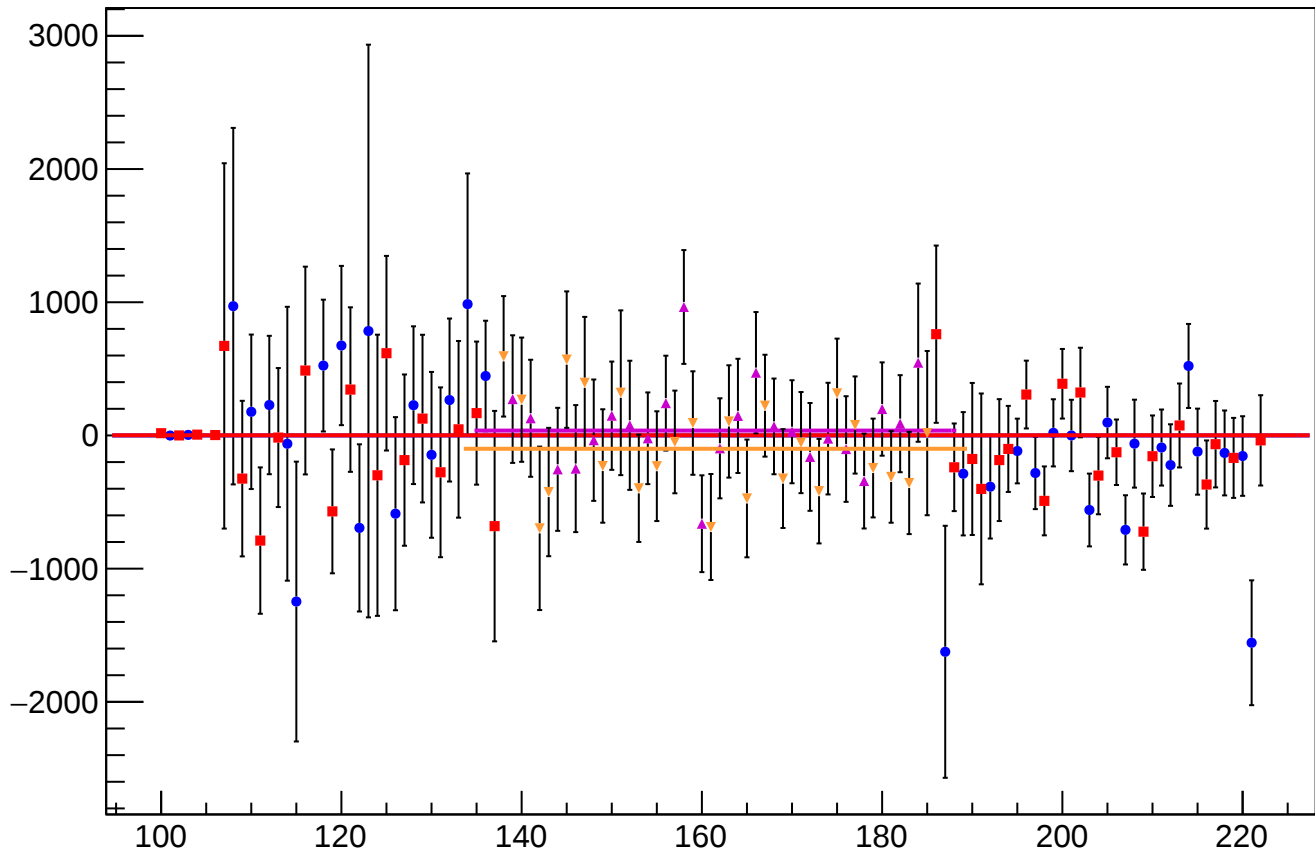
Right: 185.306+/-0.023 χ^2/NDF : 10319980.7/72

In: 188.632+/-0.023 χ^2/NDF :5872121.9/57

Out: 194.732+/-0.024 χ^2/NDF :7769232.3/62

All: 191.628+/-0.017 χ^2/NDF : 13675171.4/12

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.254 $\pm$ 1.736 χ^2/NDF : 42.4/34

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.271 $\pm$ 1.622 χ^2/NDF : 29.7/37

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

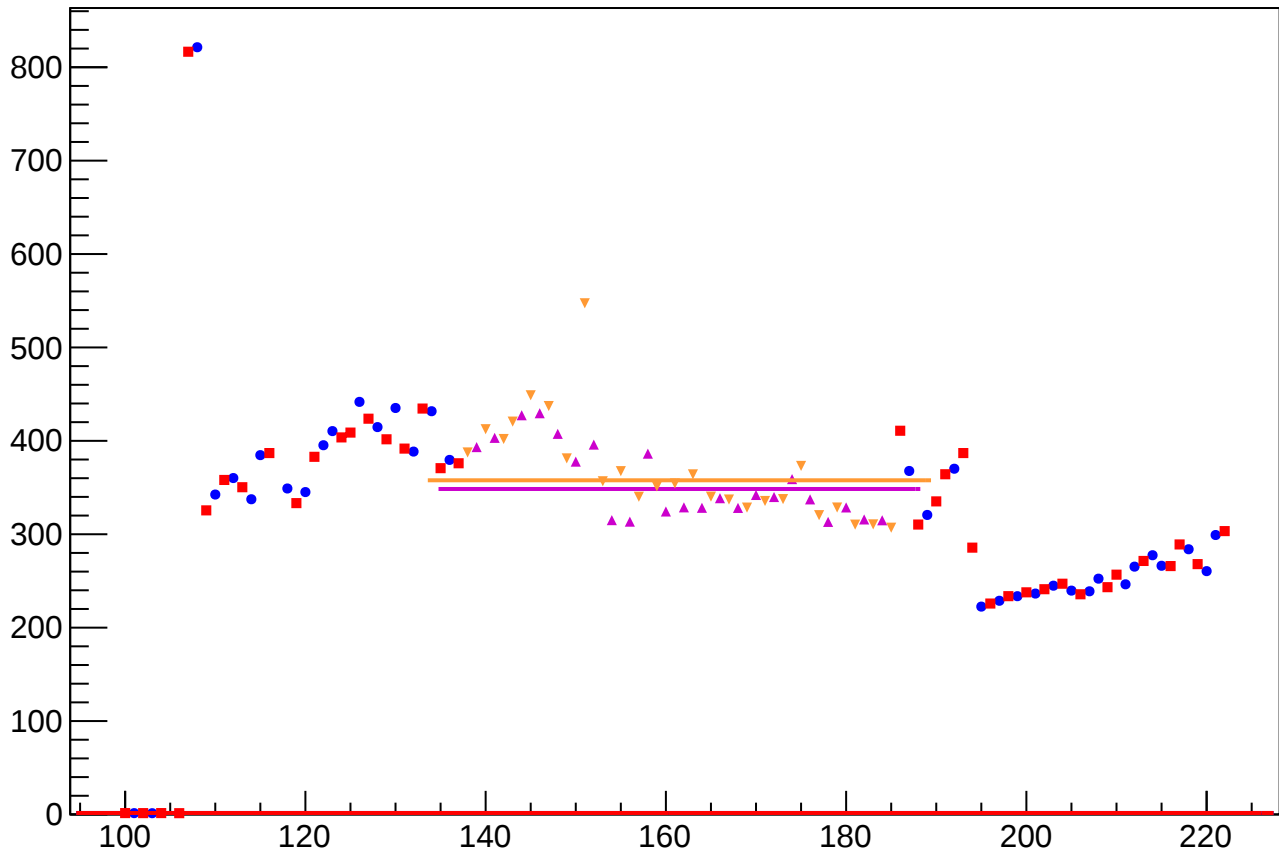
Right: 0.560 $\pm$ 1.185 χ^2/NDF : 72.6/72

In: -0.239 $\pm$ 1.736 χ^2/NDF :56.1/57

Out: 1.234 $\pm$ 1.622 χ^2/NDF :46.9/62

All: 0.547 $\pm$ 1.185 χ^2/NDF : 103.4/120

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.599 $\pm$ 0.001 χ^2 /NDF: 35955549.2/34

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.579 $\pm$ 0.001 χ^2 /NDF: 36873177.2/37

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

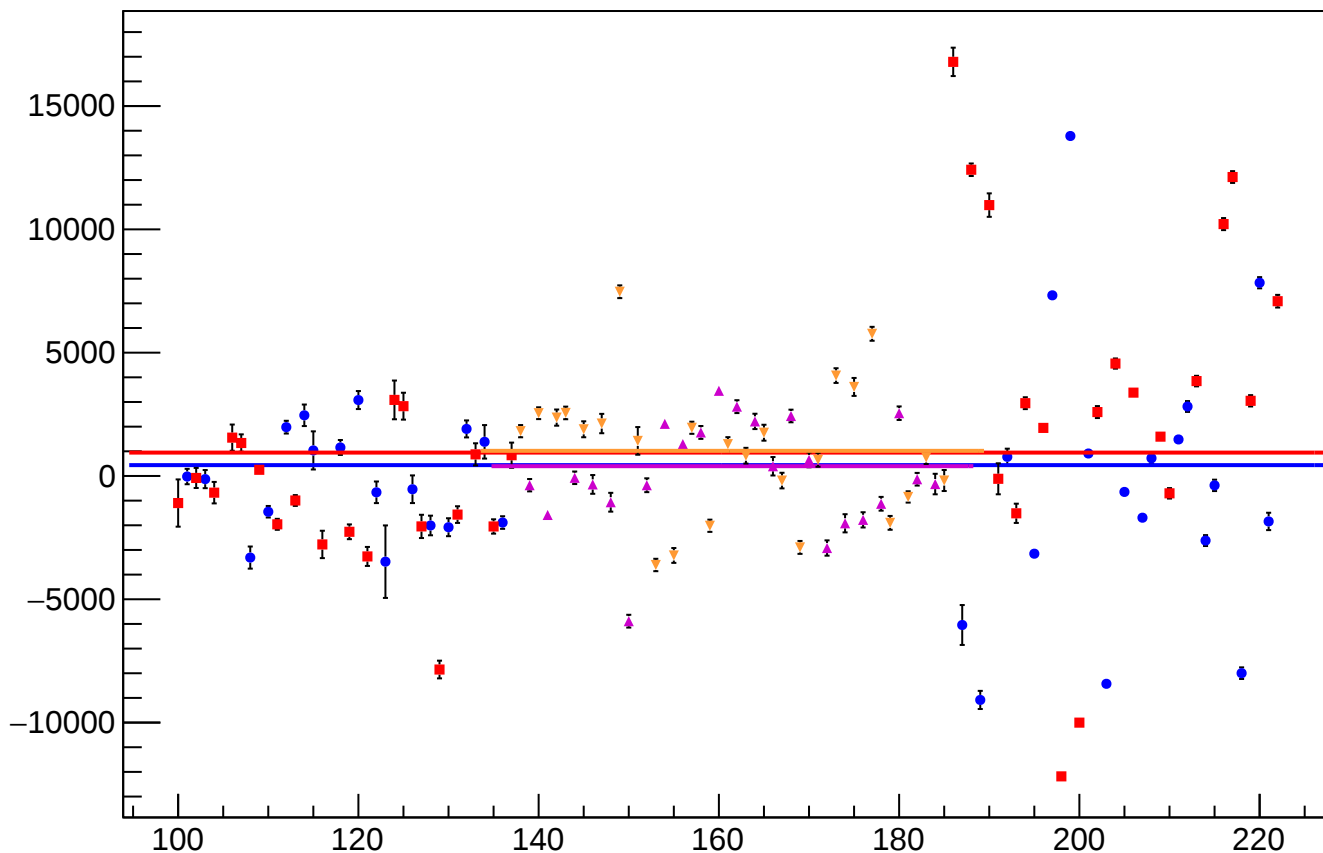
Right: 1.588 $\pm$ 0.001 χ^2 /NDF: 72828878.9/72

In: 1.745 $\pm$ 0.001 χ^2 /NDF:69863037.7/57

Out: 1.711 $\pm$ 0.001 χ^2 /NDF:73206866.3/62

All: 1.727 $\pm$ 0.001 χ^2 /NDF: 143070321.4/120

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 439.672 $\pm$ 44.482 χ^2 /NDF: 13556.4/34

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: 947.913 $\pm$ 43.924 χ^2 /NDF: 18491.6/37

Left In: 396.609 $\pm$ 55.090 χ^2 /NDF:1581.0/22

Left: 695.002 $\pm$ 39.747 χ^2 /NDF: 3952.3/47

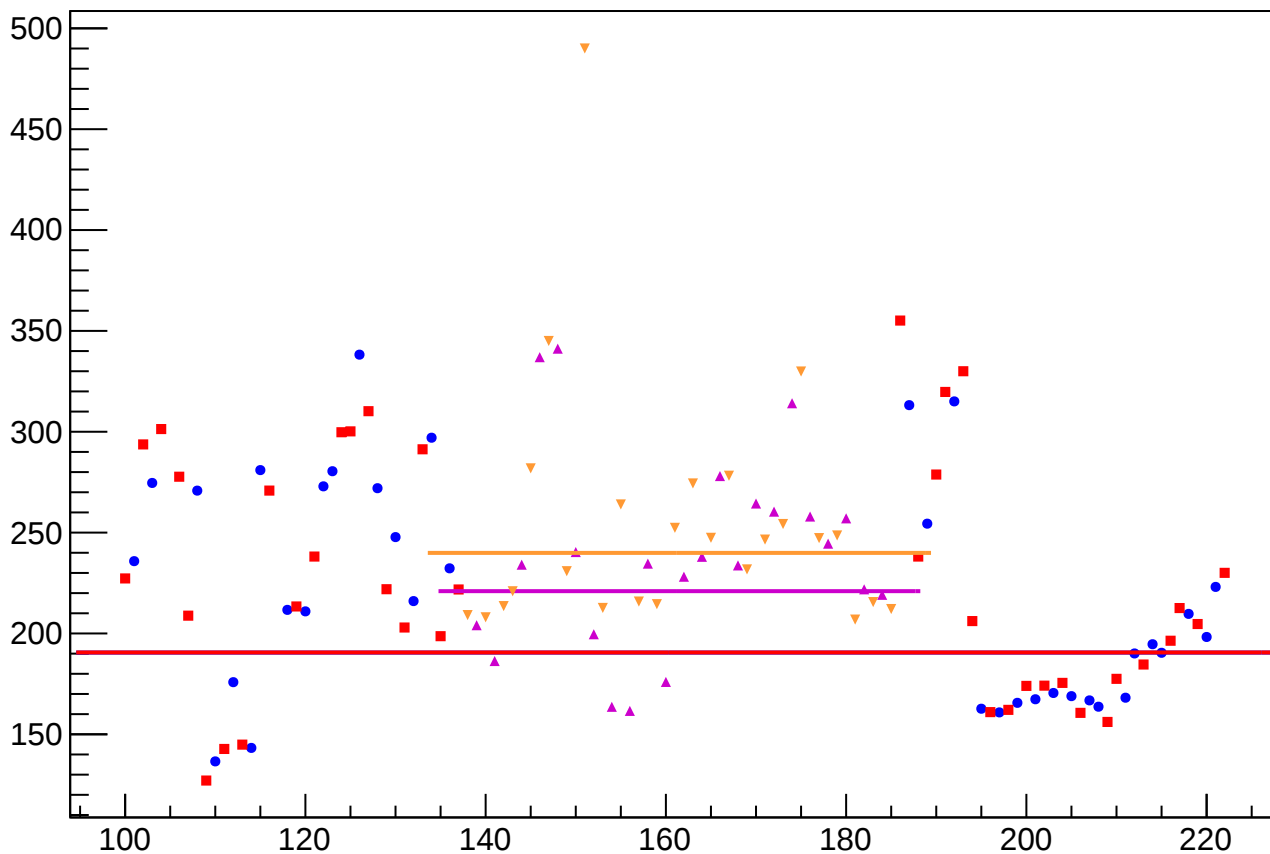
Right: 696.999 $\pm$ 31.254 χ^2 /NDF: 32114.1/72

In: 422.677 $\pm$ 34.608 χ^2 /NDF:15137.8/57

Out: 974.152 $\pm$ 34.883 χ^2 /NDF:20802.7/62

All: 696.236 $\pm$ 24.568 χ^2 /NDF: 36066.4/120

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 190.519 ± 0.031 $\chi^2/\text{NDF}: 1582376.9/34$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 190.575 ± 0.031 $\chi^2/\text{NDF}: 2202628.8/37$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

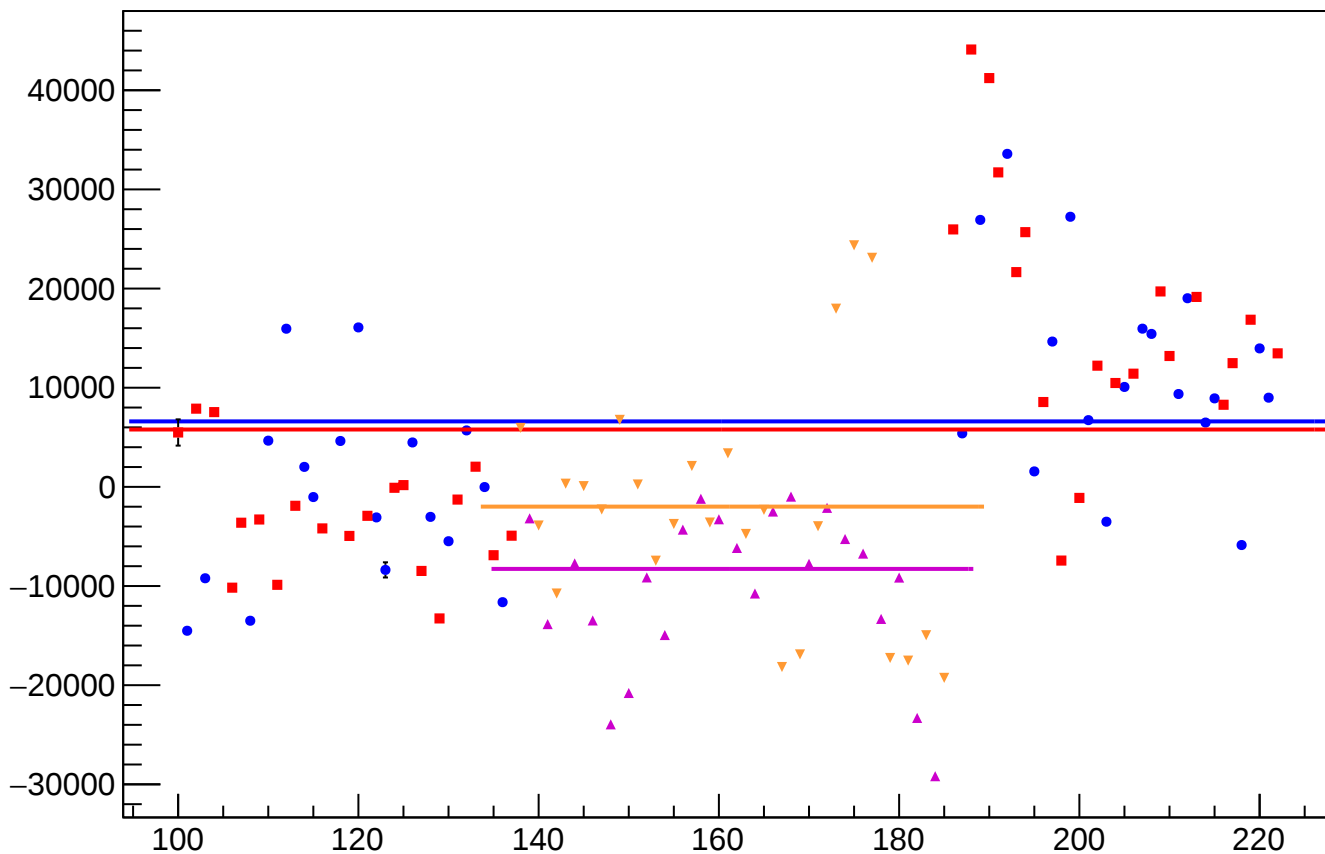
Right: 190.547 ± 0.022 $\chi^2/\text{NDF}: 3785007.3/72$

In: 202.537 ± 0.024 $\chi^2/\text{NDF}: 3279998.3/57$

Out: 208.806 ± 0.025 $\chi^2/\text{NDF}: 4136380.7/62$

All: 205.647 ± 0.017 $\chi^2/\text{NDF}: 7448927.7/120$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6603.746+/-38.496

χ^2/NDF : 96972.3/34

Left Out: -1991.788+/-42.427

χ^2/NDF : 63766.6/24

Right Out: 5785.090+/-37.164

χ^2/NDF : 147766.2/37

Left In: -8273.228+/-44.301

χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641

χ^2/NDF : 97123.2/47

Right: 6180.014+/-26.737

χ^2/NDF : 244972.6/72

In: 203.278+/-29.058

χ^2/NDF : 184096.6/57

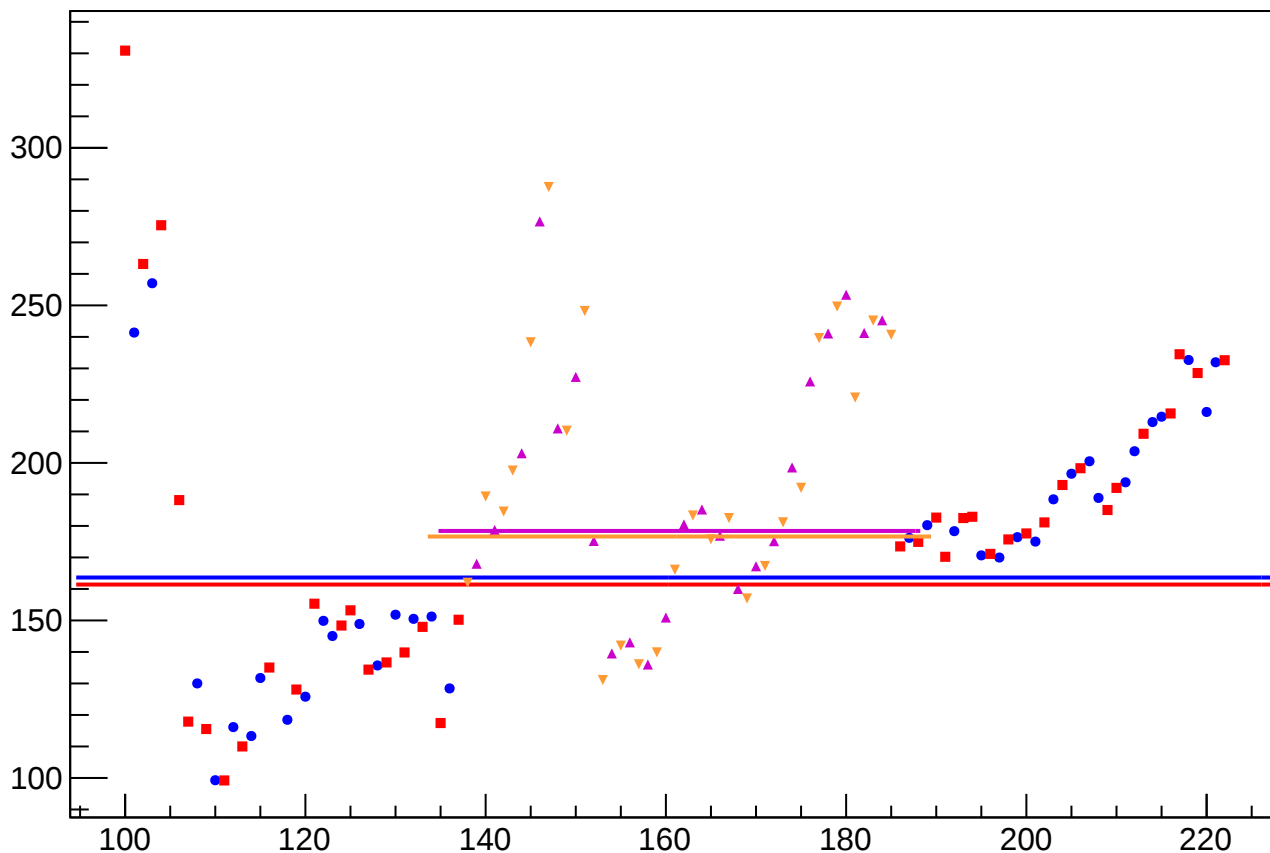
Out: 2408.629+/-27.956

χ^2/NDF : 230544.4/62

All: 1348.577+/-20.146

χ^2/NDF : 417632.3/12

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 163.628 $\pm$ 0.027 χ^2 /NDF: 1948010.5/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 161.398 $\pm$ 0.026 χ^2 /NDF: 2298843.7/37

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

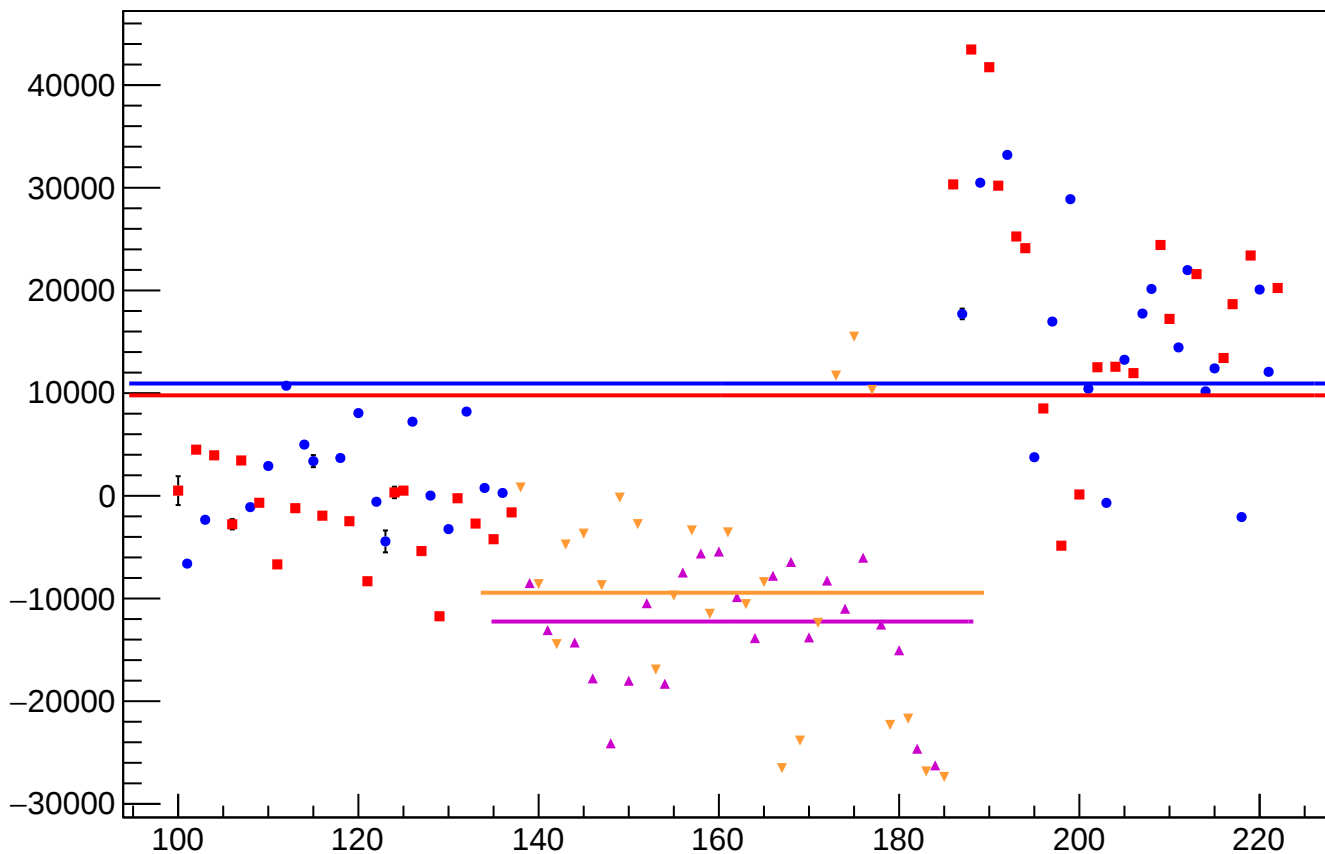
Right: 162.474 $\pm$ 0.019 χ^2 /NDF: 4250330.1/72

In: 169.989 $\pm$ 0.021 χ^2 /NDF:3368670.8/57

Out: 168.016 $\pm$ 0.020 χ^2 /NDF:3995971.5/62

All: 168.964 $\pm$ 0.014 χ^2 /NDF: 7369433.4/120

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10939.118+/-42.065

χ^2/NDF : 58975.7/34

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 9785.825+/-40.741

χ^2/NDF : 122111.8/37

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Right: 10344.042+/-29.265

χ^2/NDF : 181475.3/72

In: -145.170+/-30.387

χ^2/NDF : 220806.2/57

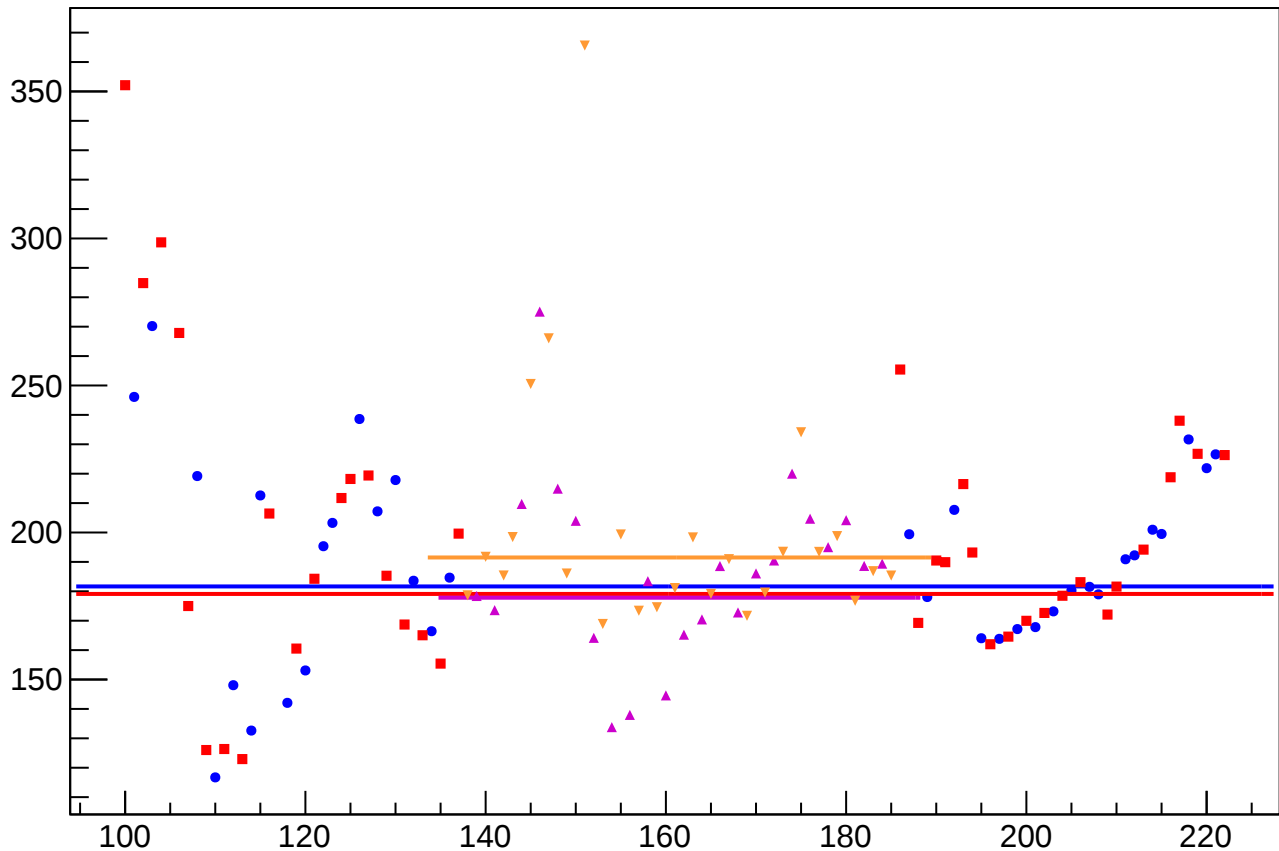
Out: 1238.892+/-30.362

χ^2/NDF : 283317.2/62

All: 547.431+/-21.478

χ^2/NDF : 505161.5/120

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 181.658 $\pm$ 0.030 χ^2 /NDF: 988280.1/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.105 $\pm$ 0.029 χ^2 /NDF: 1460773.2/37

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

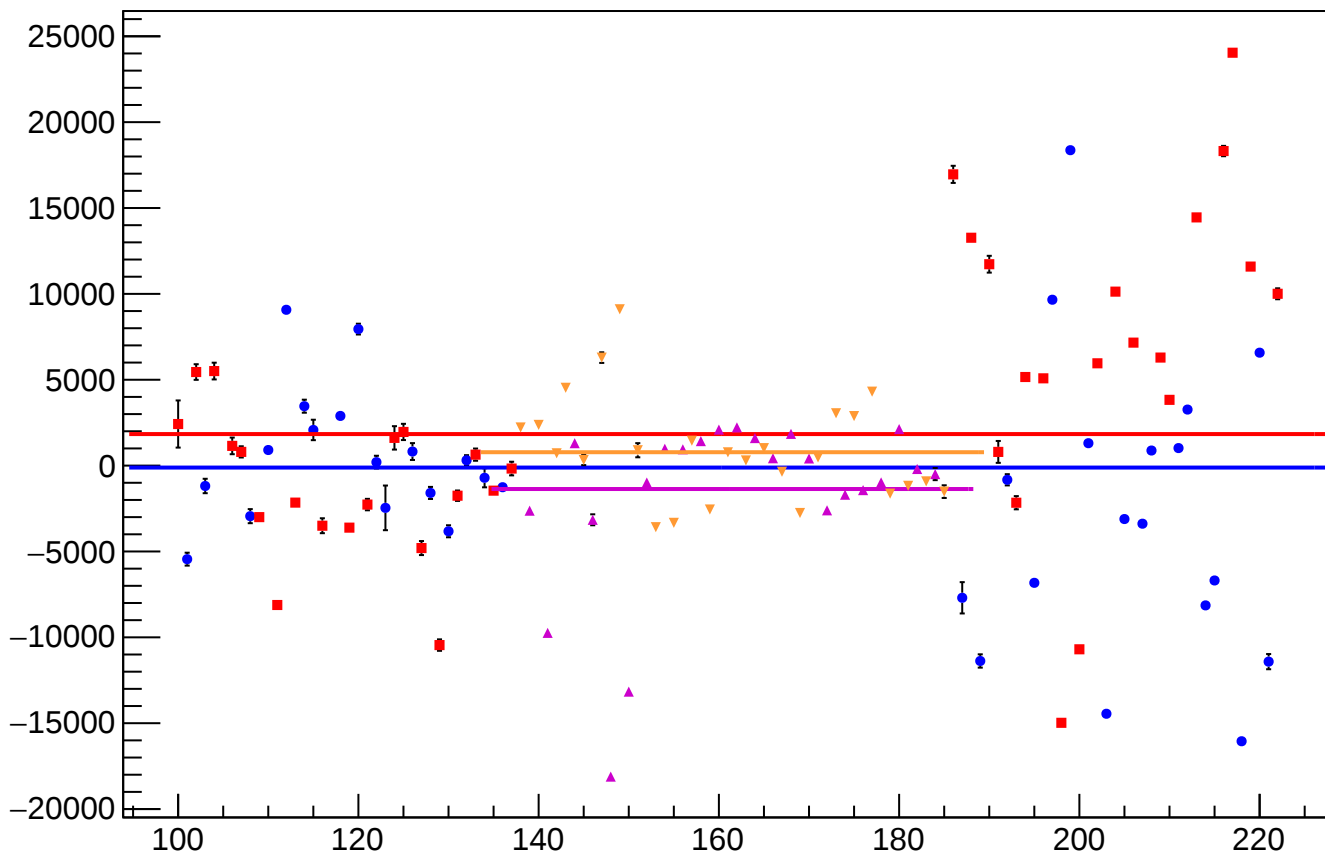
Right: 180.340 $\pm$ 0.021 χ^2 /NDF: 2452854.3/72

In: 179.823 $\pm$ 0.021 χ^2 /NDF: 1858727.4/57

Out: 184.619 $\pm$ 0.021 χ^2 /NDF: 2270427.5/62

All: 182.223 $\pm$ 0.015 χ^2 /NDF: 4154080.8/120

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -113.757 ± 47.146 $\chi^2/\text{NDF}: 26726.9/34$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 1836.360 ± 45.922 $\chi^2/\text{NDF}: 36441.2/37$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

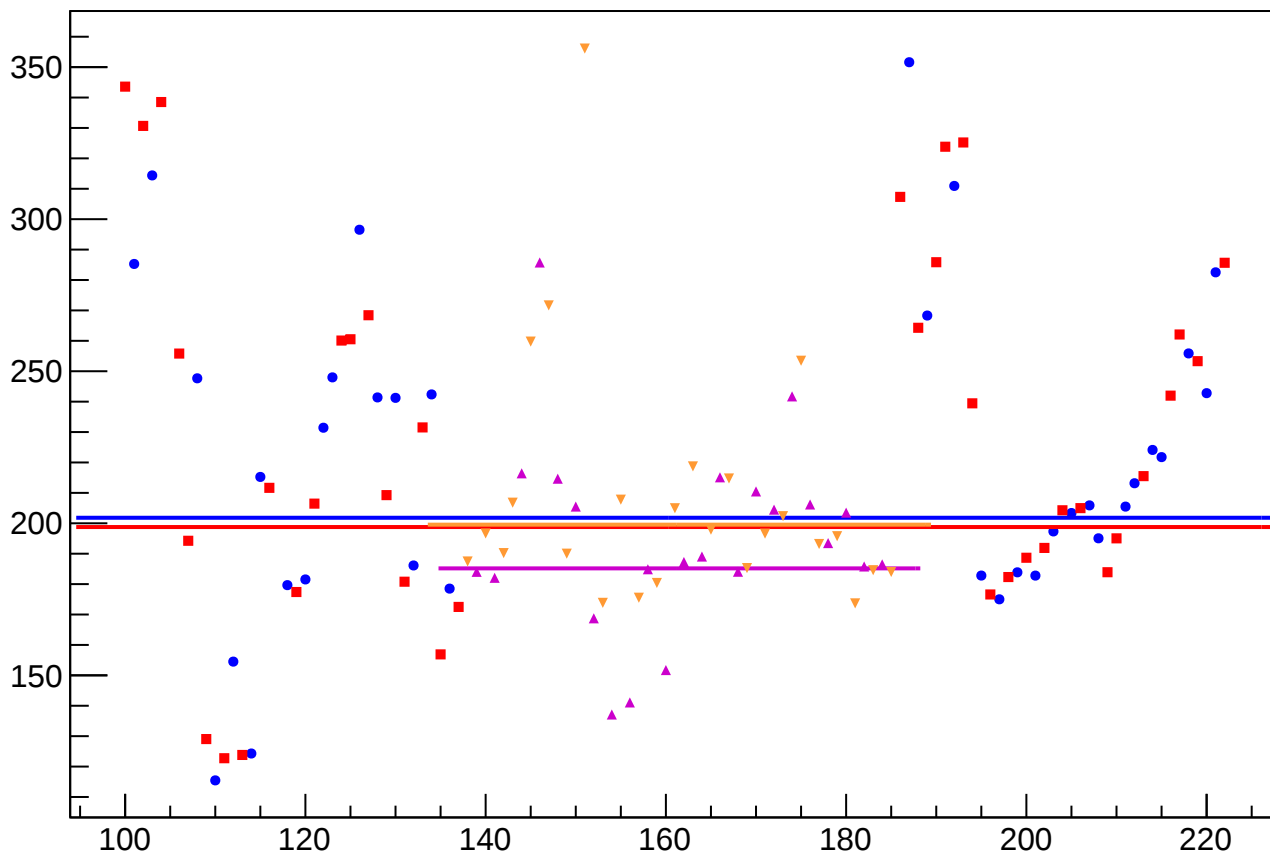
Right: 886.942 ± 32.896 $\chi^2/\text{NDF}: 64046.1/72$

In: -756.396 ± 32.853 $\chi^2/\text{NDF}: 38720.9/57$

Out: 1325.535 ± 33.001 $\chi^2/\text{NDF}: 40957.9/62$

All: 279.899 ± 23.283 $\chi^2/\text{NDF}: 81677.7/120$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 201.820 ± 0.033 $\chi^2/\text{NDF}: 1661626.0/34$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 198.766 ± 0.032 $\chi^2/\text{NDF}: 2554157.6/37$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

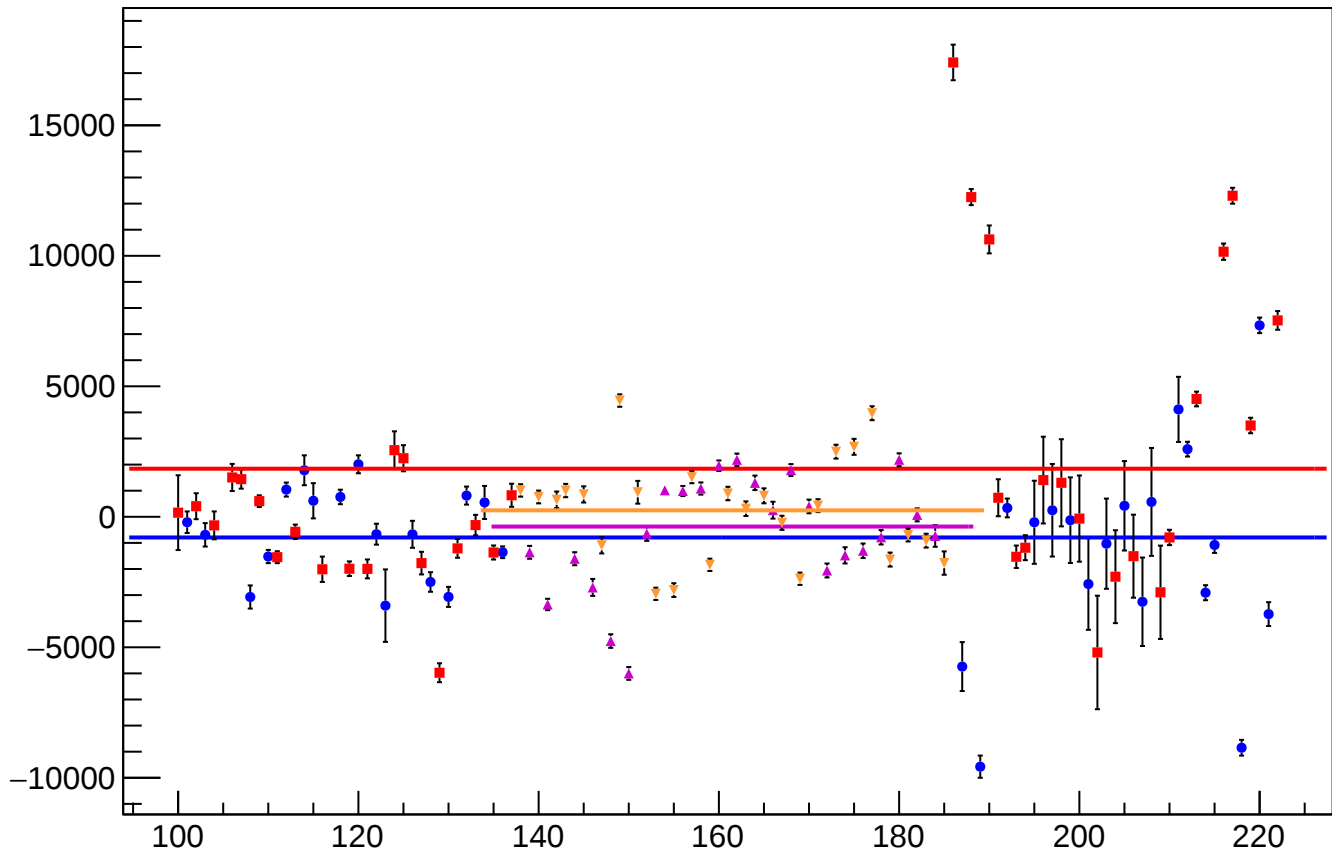
Right: 200.253 ± 0.023 $\chi^2/\text{NDF}: 4220089.2/72$

In: 193.255 ± 0.023 $\chi^2/\text{NDF}: 2672685.1/57$

Out: 199.144 ± 0.023 $\chi^2/\text{NDF}: 3283793.1/62$

All: 196.186 ± 0.016 $\chi^2/\text{NDF}: 5988457.0/120$

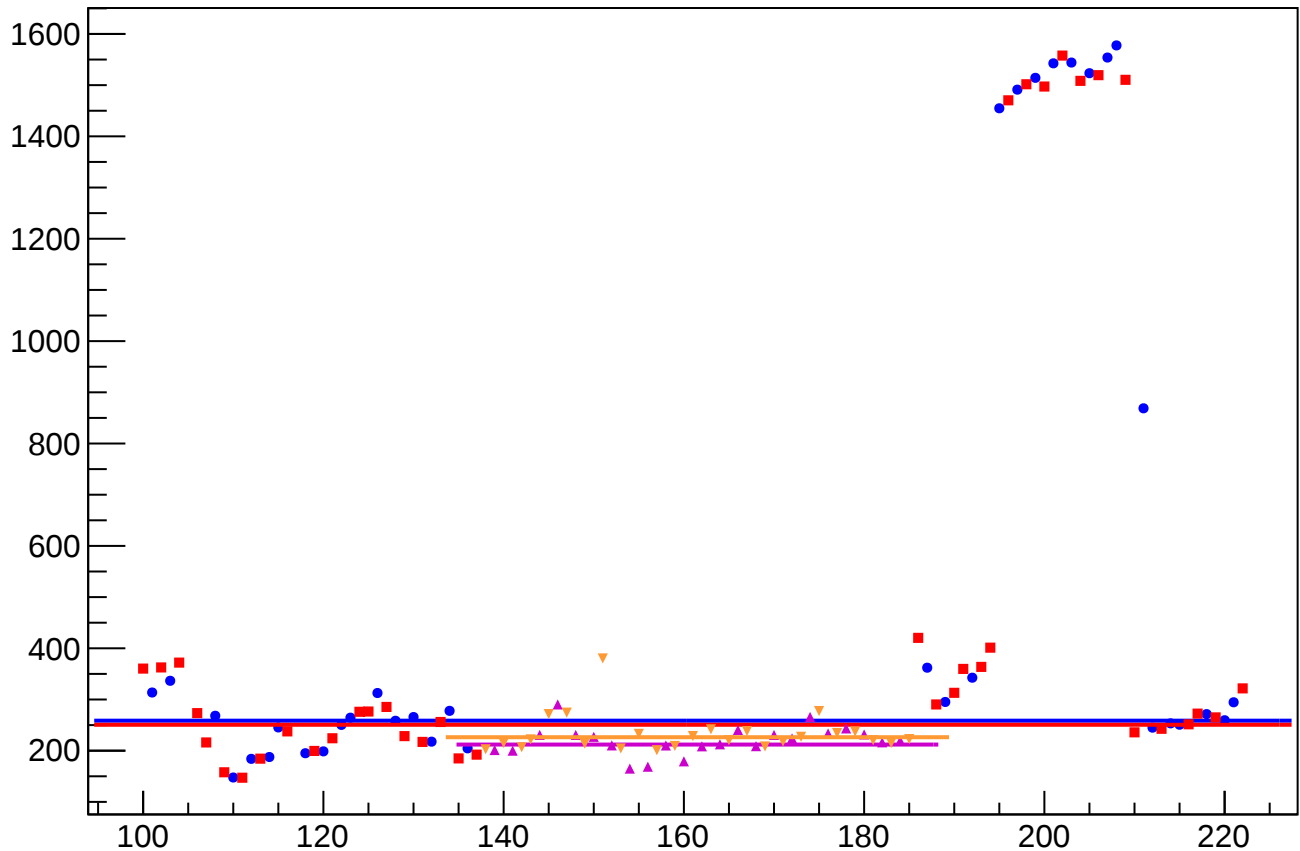
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -791.889 ± 69.530 $\chi^2/\text{NDF}: 2474.8/34$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 1842.426 ± 64.240 $\chi^2/\text{NDF}: 5900.0/37$
 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: 629.286 ± 47.184 $\chi^2/\text{NDF}: 9149.2/72$
 In: -524.154 ± 41.668 $\chi^2/\text{NDF}: 4299.0/57$
 Out: 901.673 ± 41.135 $\chi^2/\text{NDF}: 7618.6/62$
 All: 197.926 ± 29.273 $\chi^2/\text{NDF}: 12510.6/120$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.627 $\pm$ 0.049 χ^2 /NDF: 10164089.9/34

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 250.648 $\pm$ 0.045 χ^2 /NDF: 9376061.9/37

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

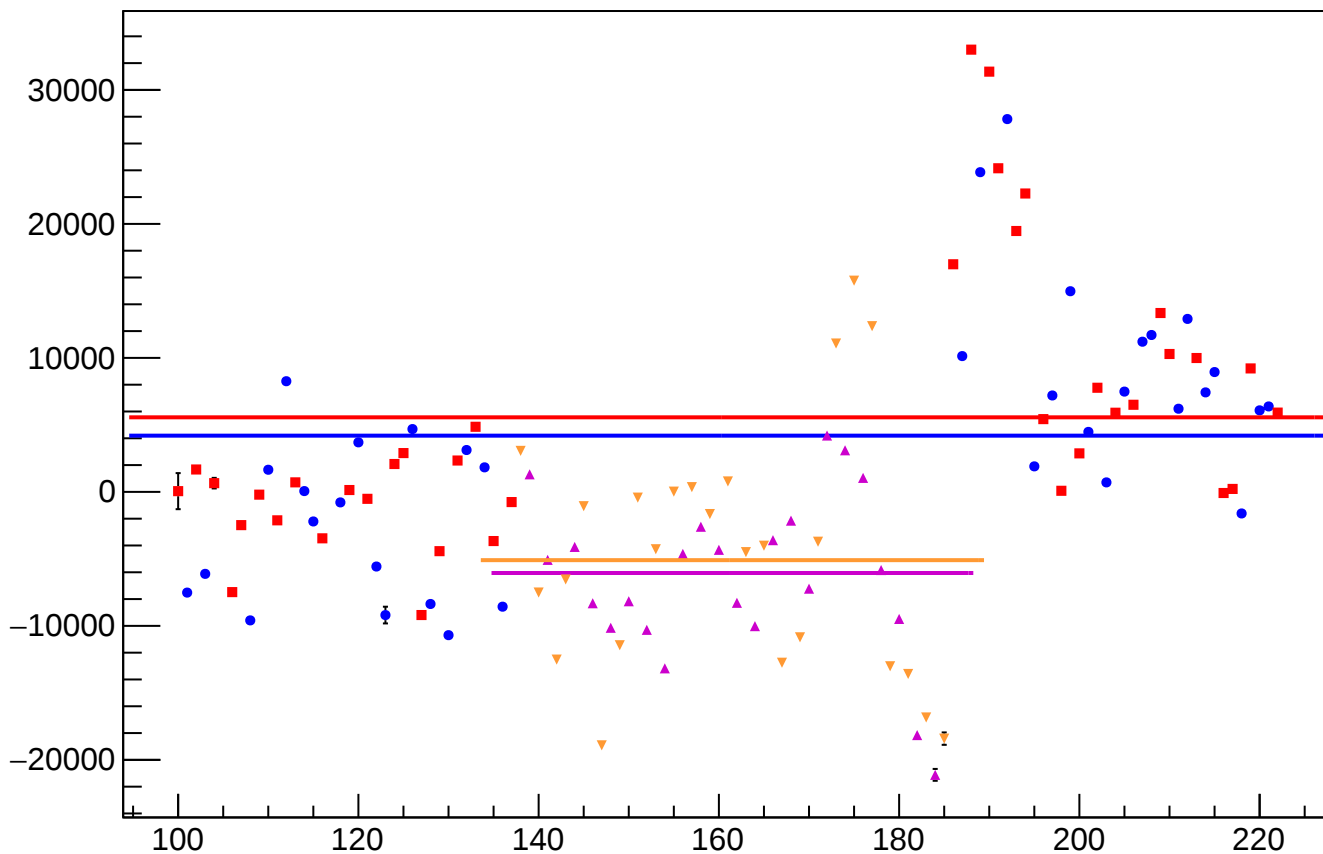
Right: 254.323 $\pm$ 0.033 χ^2 /NDF: 19554361.3/72

In: 228.726 $\pm$ 0.029 χ^2 /NDF: 11325585.4/57

Out: 236.296 $\pm$ 0.029 χ^2 /NDF: 10066303.9/62

All: 232.560 $\pm$ 0.021 χ^2 /NDF: 21425322.3/12

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4196.606+/-32.739 χ^2/NDF : 80929.2/34

Left Out: -5095.305+/-33.703 χ^2/NDF :54395.4/24

Right Out: 5564.454+/-31.397 χ^2/NDF : 105368.0/37

Left In: -6053.569+/-34.998 χ^2/NDF :17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

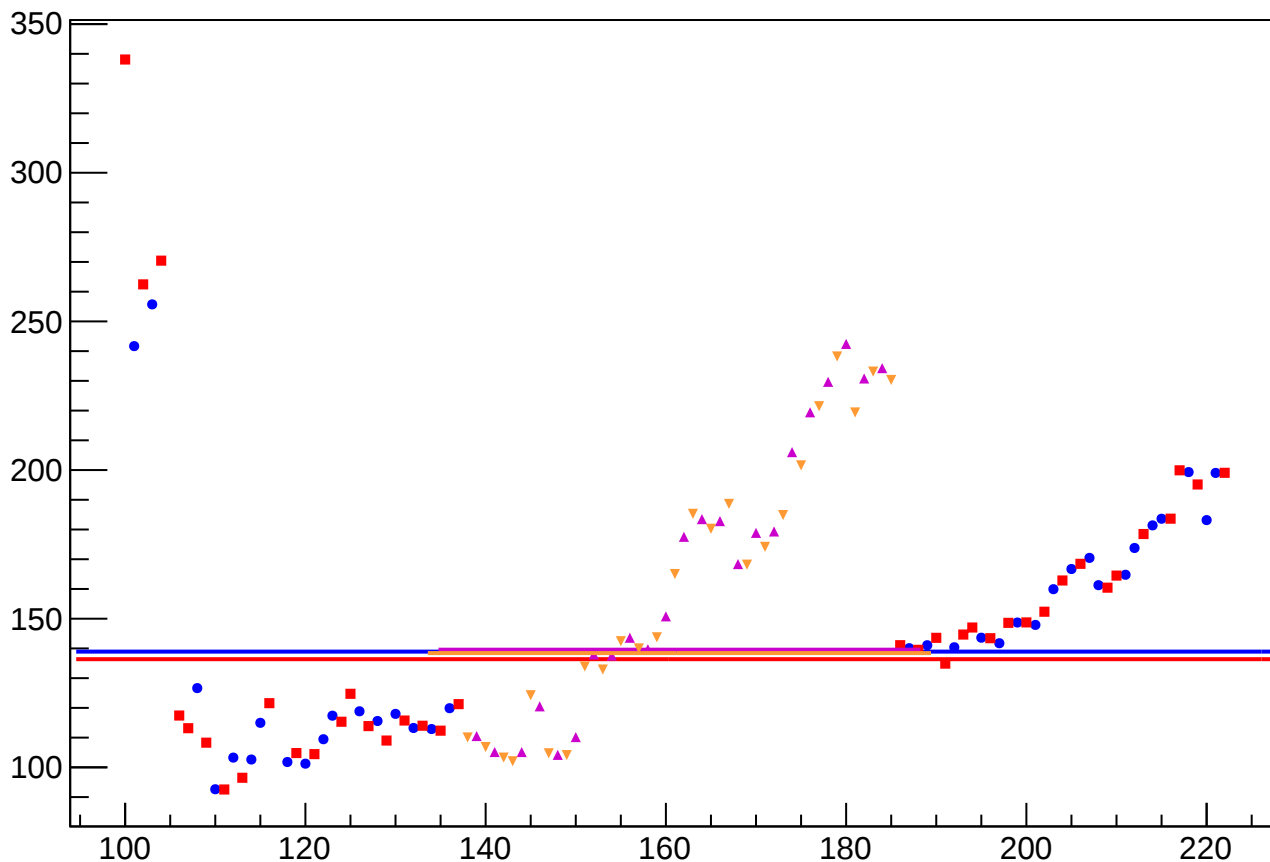
Right: 4909.142+/-22.661 χ^2/NDF : 187206.5/72

In: -587.040+/-23.909 χ^2/NDF :144265.7/57

Out: 611.770+/-22.973 χ^2/NDF :213319.8/62

All: 36.280+/-16.565 χ^2/NDF : 358892.8/120

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 138.928+/-0.023 χ^2/NDF : 1962581.1/34

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 136.382+/-0.022 χ^2/NDF : 2179345.5/37

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

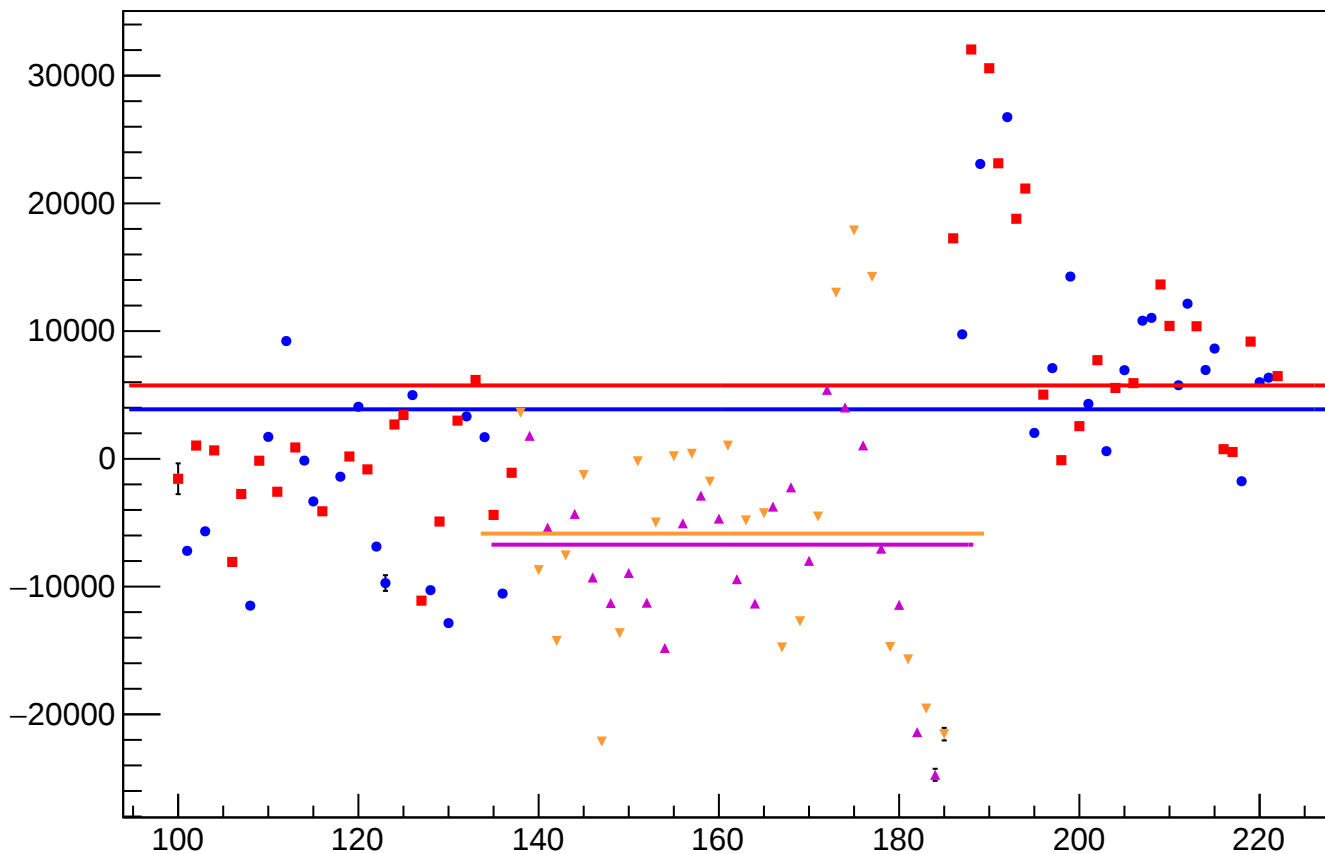
Right: 137.602+/-0.016 χ^2/NDF : 4148227.6/72

In: 139.231+/-0.017 χ^2/NDF : 4376607.2/57

Out: 137.336+/-0.016 χ^2/NDF : 4732755.9/62

All: 138.246+/-0.012 χ^2/NDF : 9115896.5/120

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3877.056+/-32.626

χ^2/NDF : 86110.3/34

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right: 4847.818+/-22.625

χ^2/NDF : 193869.8/72

Right Out: 5747.136+/-31.403

χ^2/NDF : 106054.0/37

In: -719.092+/-24.550

χ^2/NDF : 152793.5/57

Out: 715.737+/-23.630

χ^2/NDF : 228648.7/62

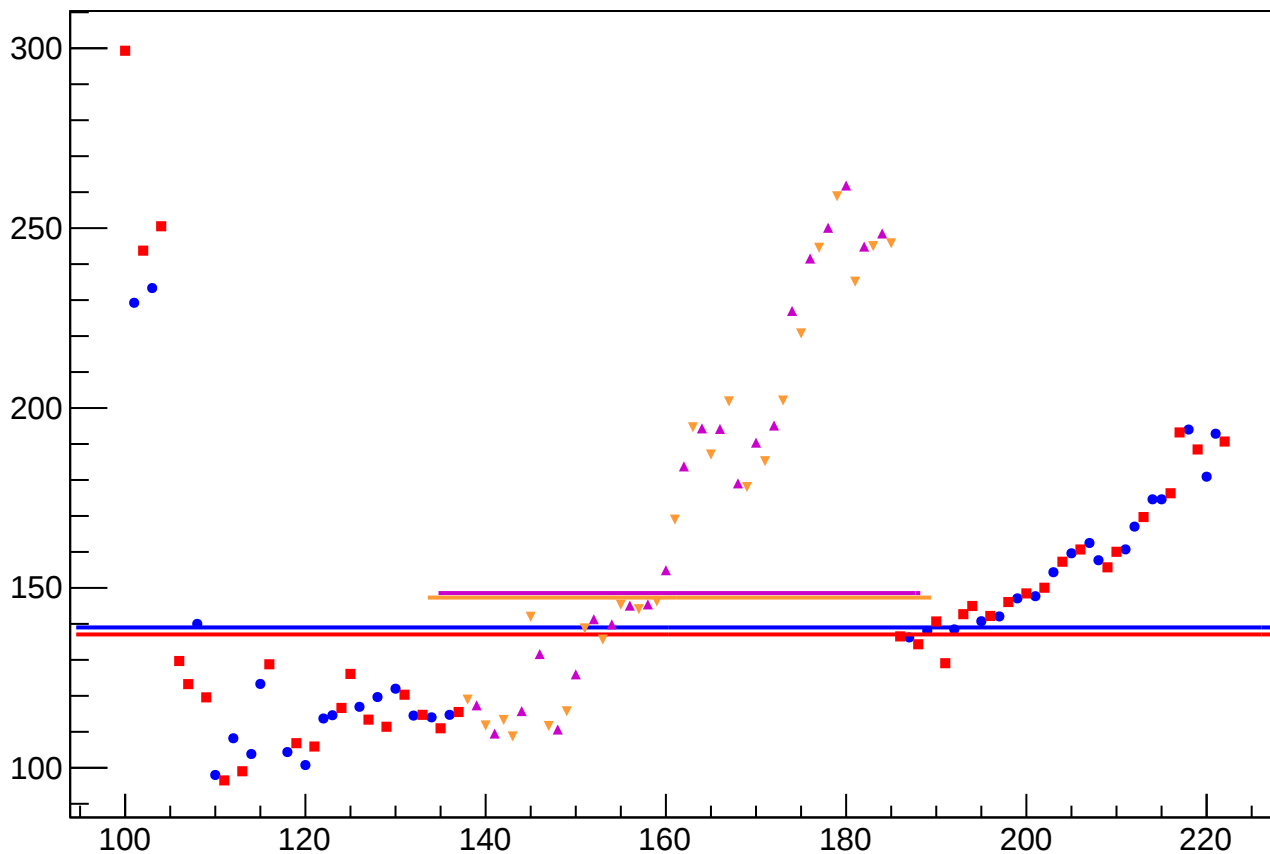
Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

All: 25.713+/-17.025

χ^2/NDF : 383215.2/120

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 139.015+/-0.023 χ^2/NDF : 1578379.8/34

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 137.066+/-0.022 χ^2/NDF : 1711664.9/37

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

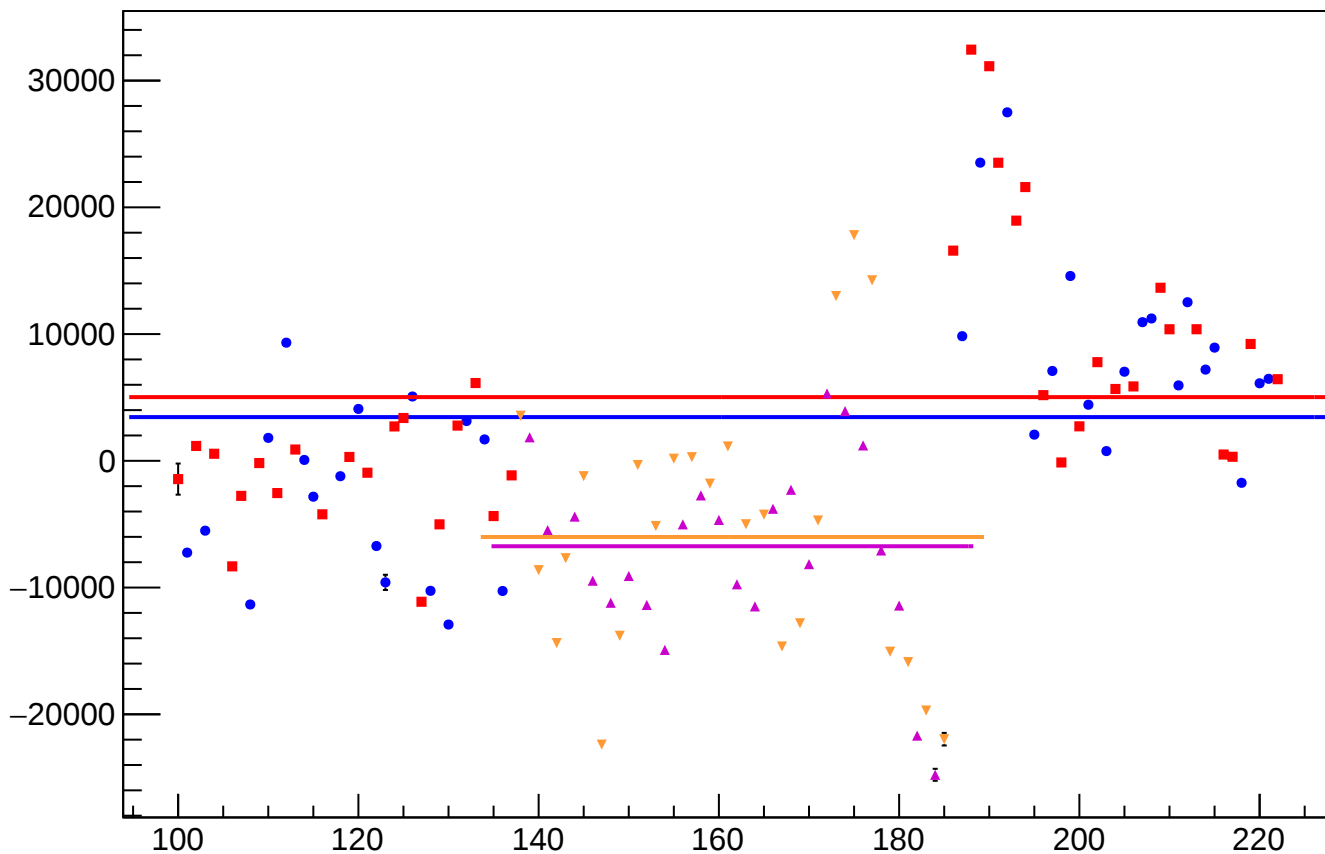
Right: 138.003+/-0.016 χ^2/NDF : 3293749.8/72

In: 143.159+/-0.017 χ^2/NDF : 4045955.7/57

Out: 141.512+/-0.017 χ^2/NDF : 4315796.4/62

All: 142.304+/-0.012 χ^2/NDF : 8366422.8/120

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3449.457+/-32.856

χ^2/NDF : 85829.3/34

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right: 4267.553+/-22.794

χ^2/NDF : 187901.4/72

Right Out: 5026.609+/-31.648

χ^2/NDF : 100876.8/37

In: -1128.360+/-24.383

χ^2/NDF : 151113.7/57

Out: 74.823+/-23.499

χ^2/NDF : 223291.9/62

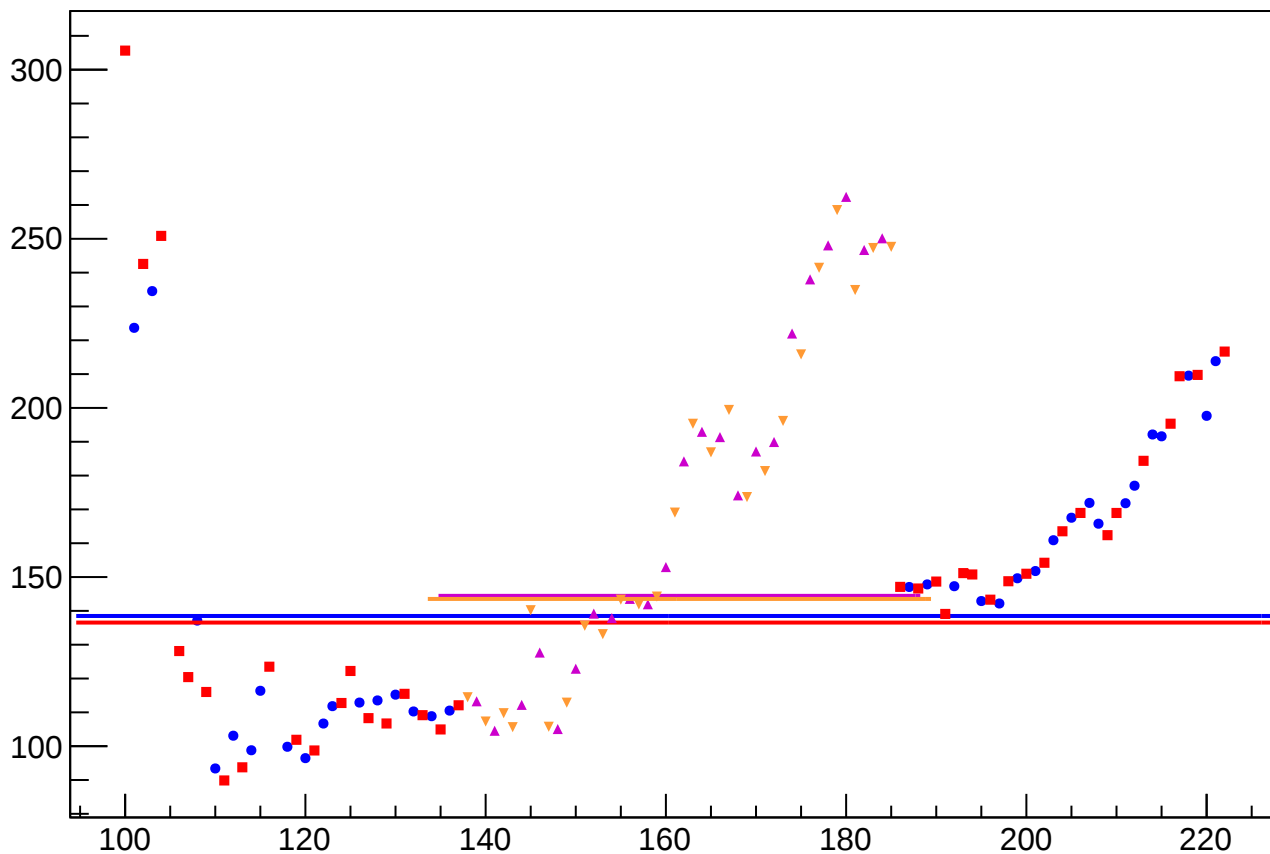
Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

All: -504.558+/-16.920

χ^2/NDF : 375667.9/12

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 138.493 ± 0.023 χ^2/NDF : 2271790.6/34

Left Out: 143.531 ± 0.025 χ^2/NDF : 2704790.3/24

Right Out: 136.543 ± 0.022 χ^2/NDF : 2505350.8/37

Left In: 144.440 ± 0.026 χ^2/NDF : 2586926.1/22

Left: 143.969 ± 0.018 χ^2/NDF : 5292363.3/47

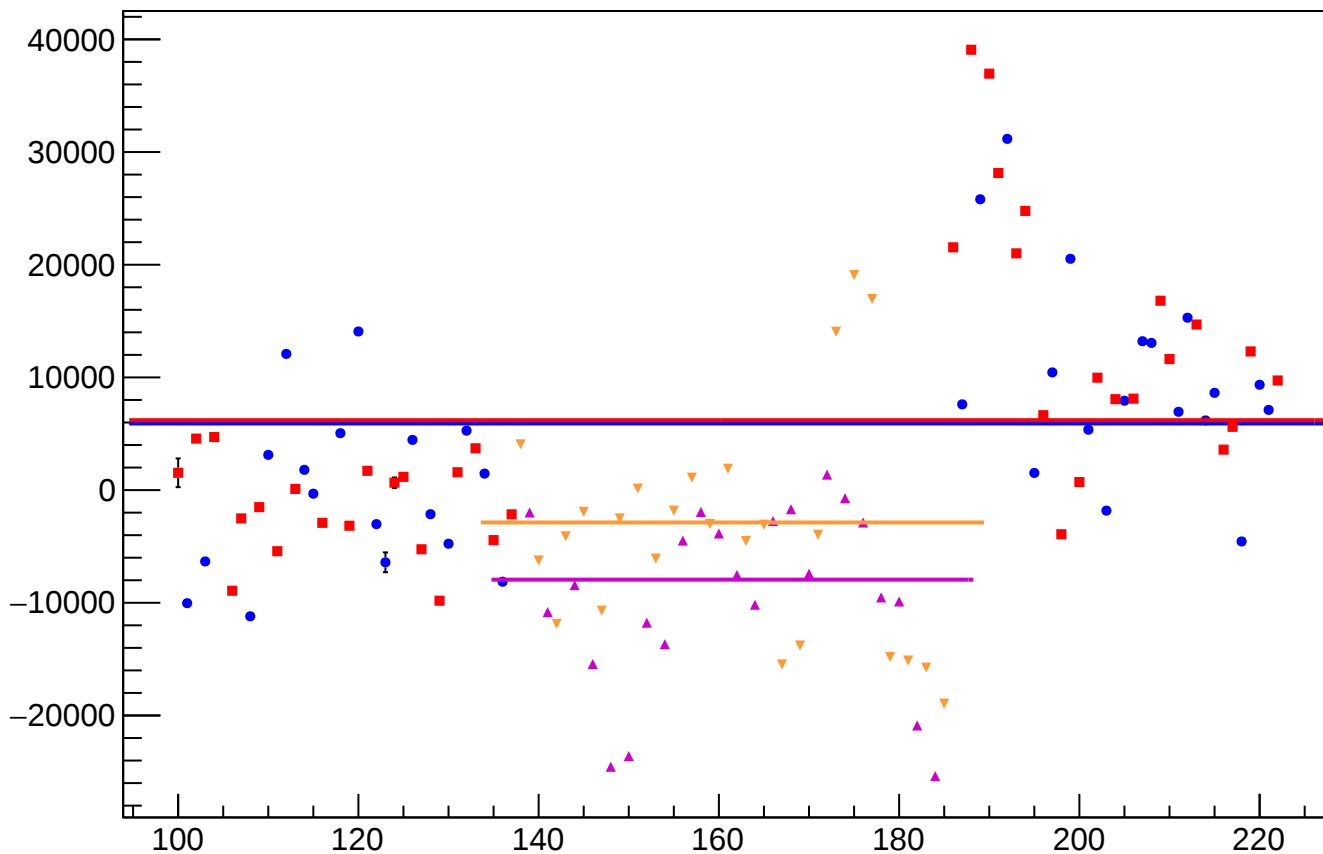
Right: 137.482 ± 0.016 χ^2/NDF : 4780795.2/72

In: 141.165 ± 0.017 χ^2/NDF : 4888148.0/57

Out: 139.678 ± 0.017 χ^2/NDF : 5253882.6/62

All: 140.394 ± 0.012 χ^2/NDF : 10145882.9/12

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5913.664+/-39.429 χ^2/NDF : 65314.3/34

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 6204.114+/-38.006 χ^2/NDF : 100681.4/37

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

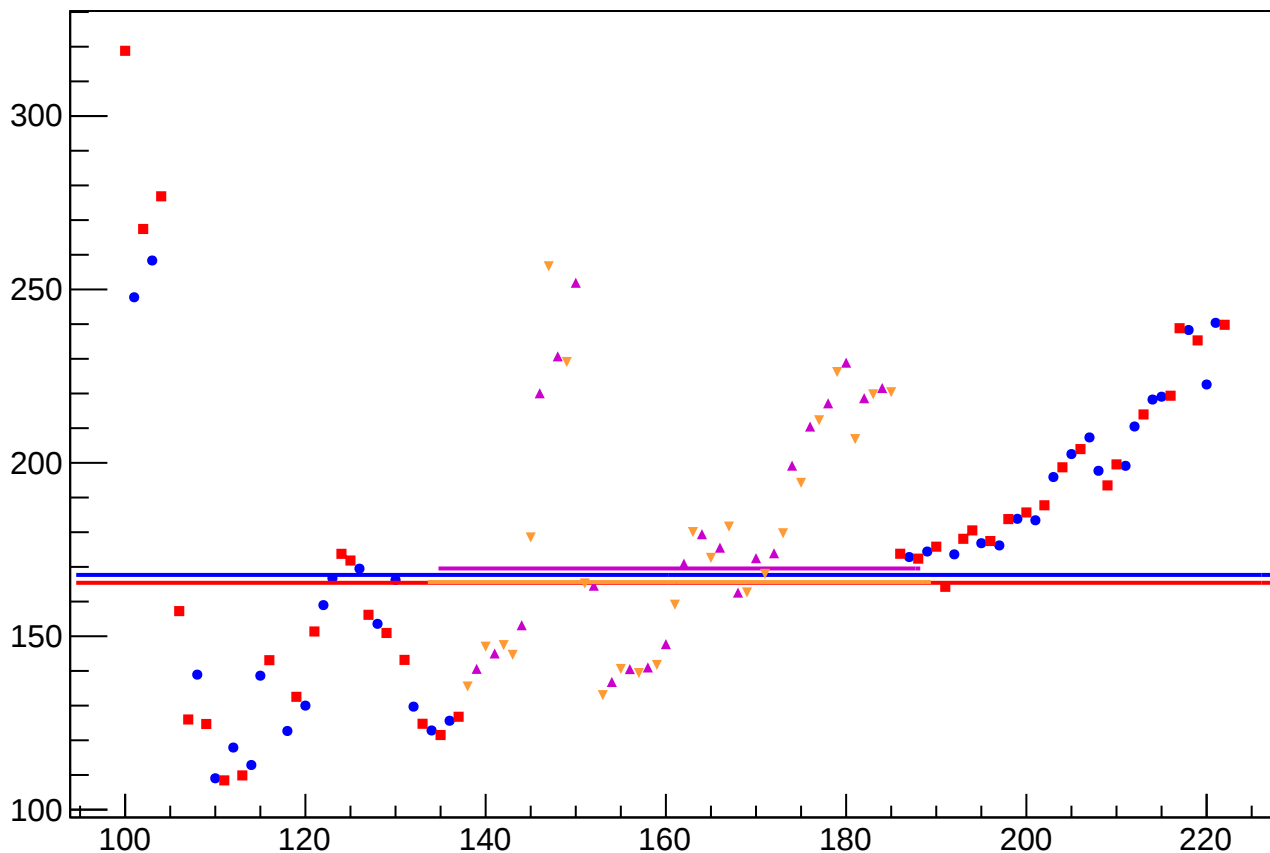
Right: 6064.227+/-27.364 χ^2/NDF : 166023.9/72

In: -624.877+/-28.658 χ^2/NDF : 147483.4/57

Out: 1839.650+/-27.381 χ^2/NDF : 174521.1/62

All: 663.518+/-19.798 χ^2/NDF : 325870.7/120

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 167.689+/-0.028 χ^2/NDF : 1978731.1/34

Left Out: 165.616+/-0.028 χ^2/NDF : 1144779.3/24

Right Out: 165.414+/-0.027 χ^2/NDF : 2170734.4/37

Left In: 169.542+/-0.030 χ^2/NDF : 1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

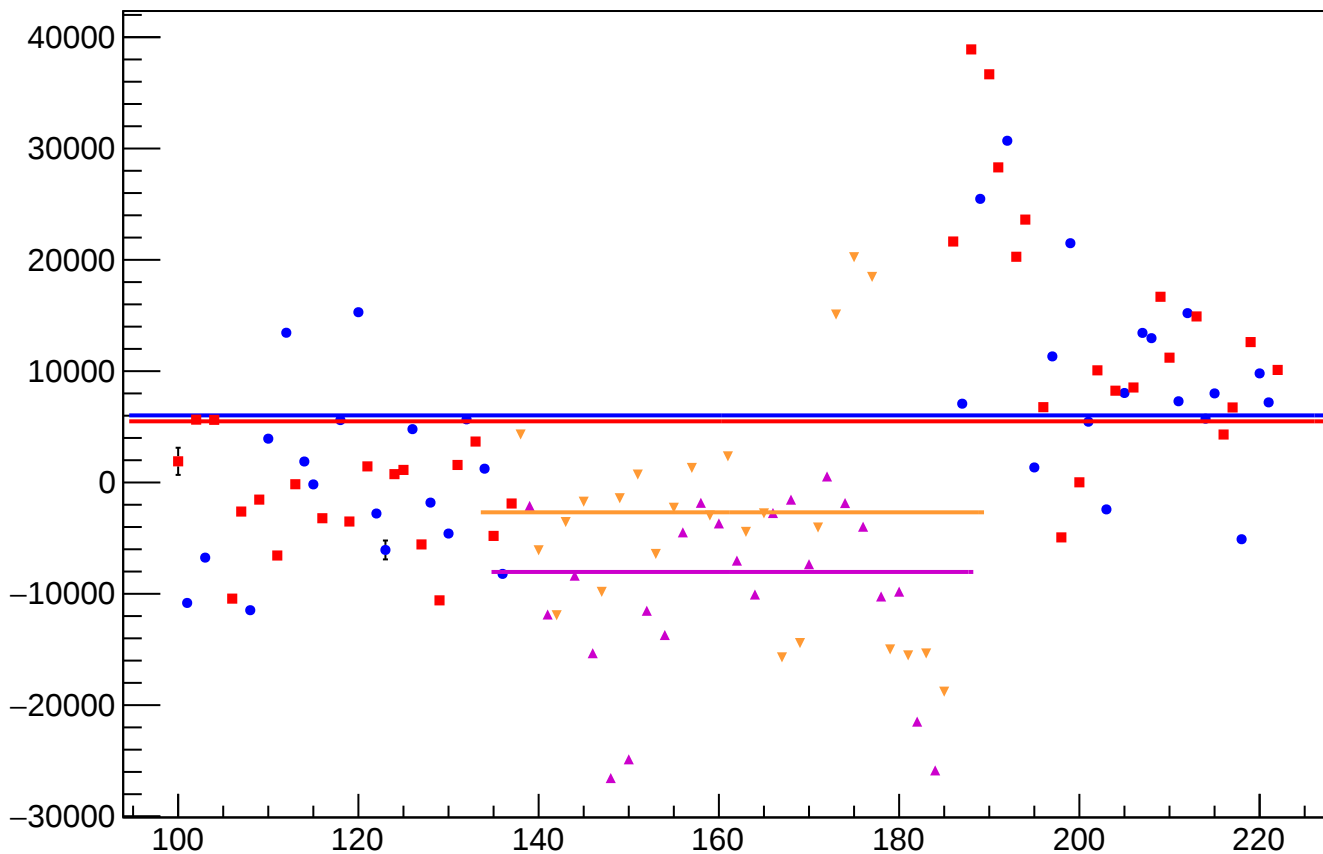
Right: 166.510+/-0.019 χ^2/NDF : 4152915.6/72

In: 168.563+/-0.020 χ^2/NDF : 3140056.6/57

Out: 165.511+/-0.019 χ^2/NDF : 3315541.0/62

All: 166.968+/-0.014 χ^2/NDF : 6467450.7/120

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6027.390+/-33.534 χ^2/NDF : 91426.9/34

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 5493.592+/-32.113 χ^2/NDF : 141107.2/37

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

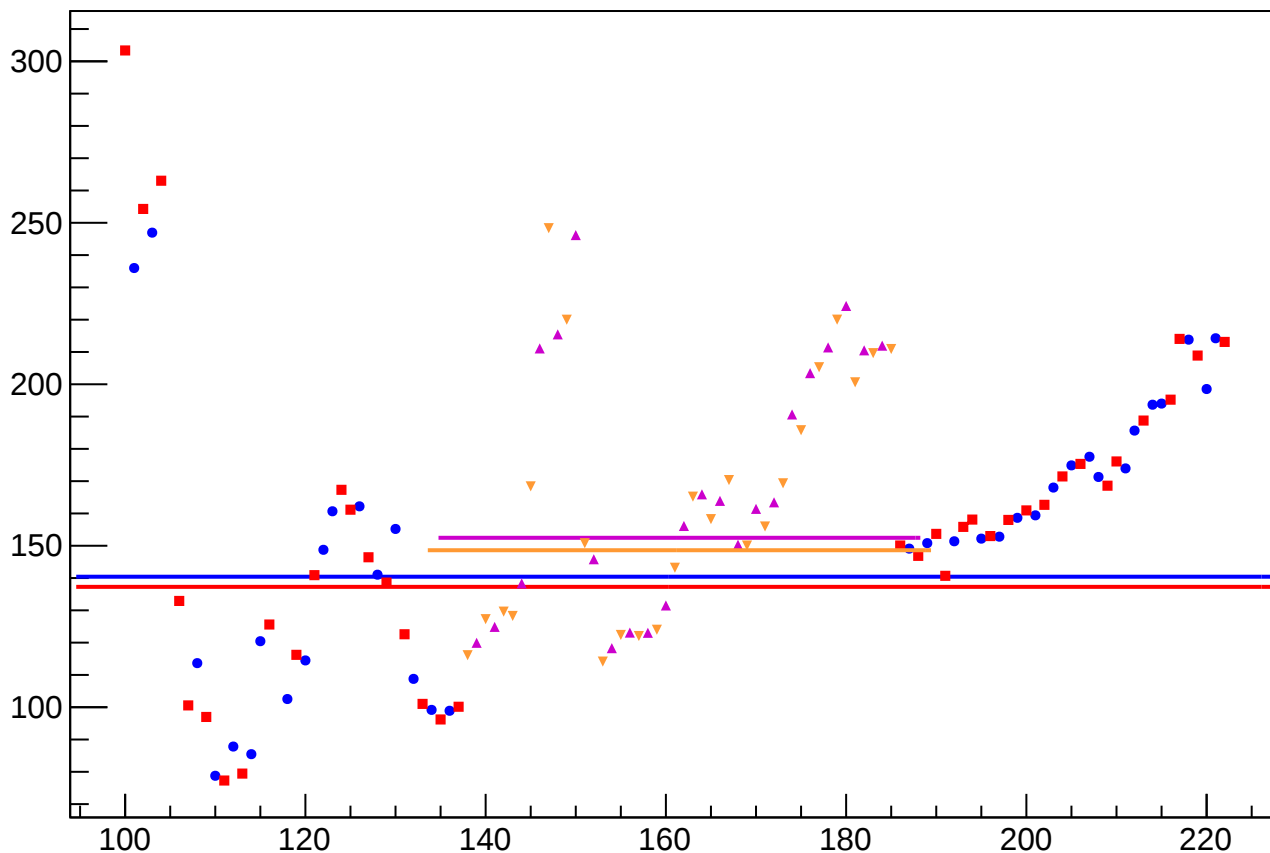
Right: 5748.945+/-23.193 χ^2/NDF : 232666.3/72

In: -143.821+/-25.122 χ^2/NDF : 197871.4/57

Out: 1845.095+/-23.894 χ^2/NDF : 226845.0/62

All: 900.410+/-17.313 χ^2/NDF : 428007.3/120

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 140.413+/-0.024 χ^2/NDF : 2931632.8/34

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 137.272+/-0.023 χ^2/NDF : 3312582.2/37

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

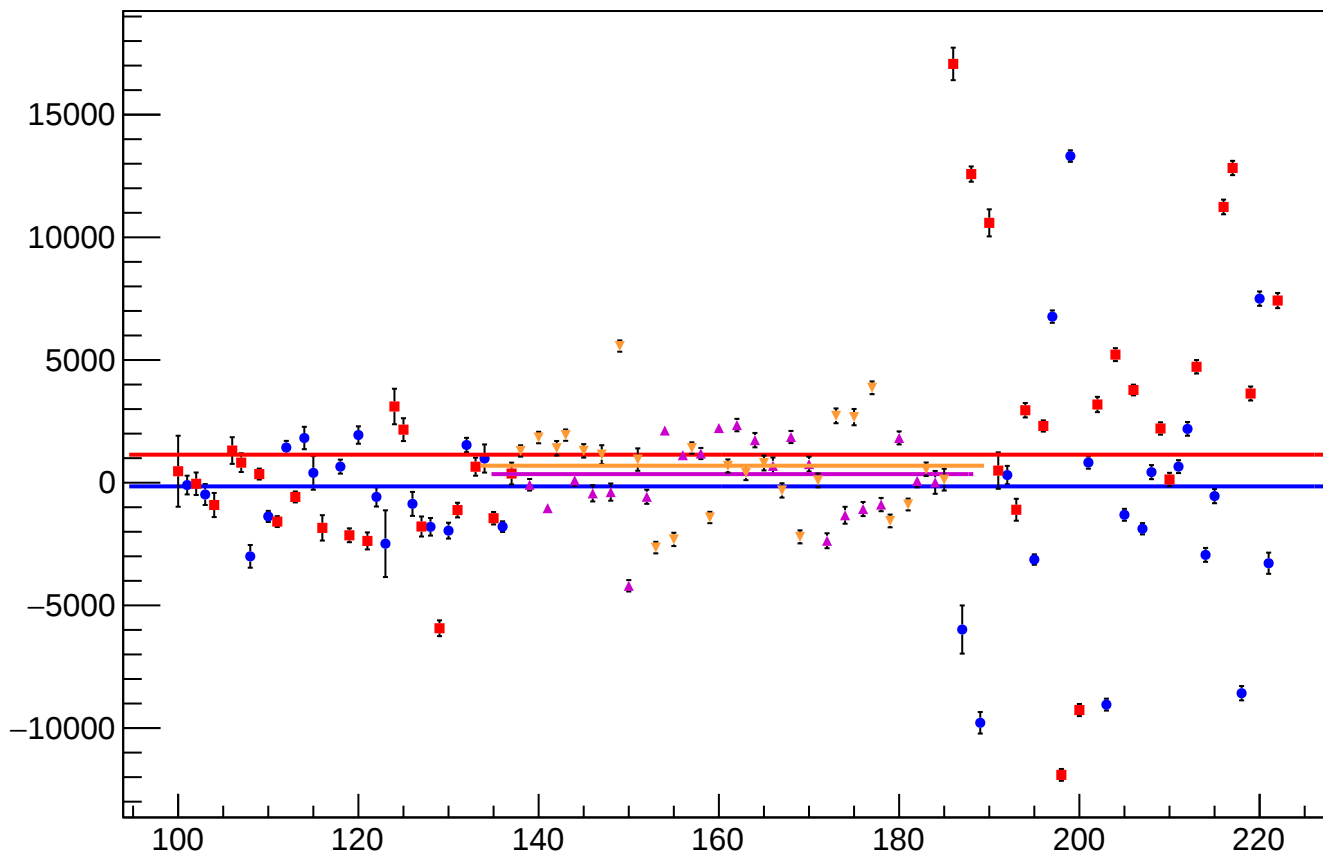
Right: 138.775+/-0.016 χ^2/NDF : 6253364.9/72

In: 145.701+/-0.018 χ^2/NDF :4736476.8/57

Out: 142.334+/-0.017 χ^2/NDF :5109296.1/62

All: 143.933+/-0.012 χ^2/NDF : 9864635.3/120

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -150.257 ± 51.868 $\chi^2/\text{NDF}: 8238.4/34$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 1141.907 ± 50.892 $\chi^2/\text{NDF}: 12097.2/37$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

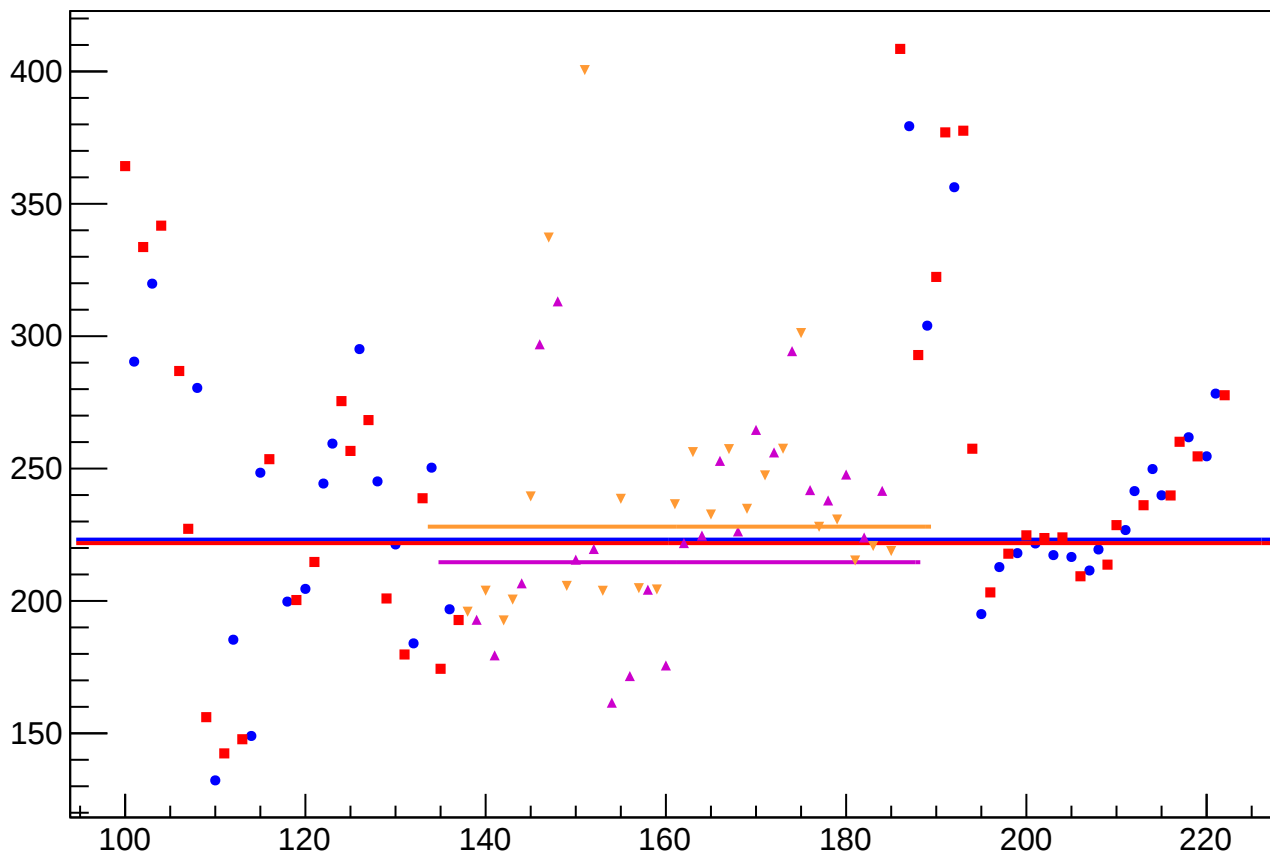
Right: 508.093 ± 36.326 $\chi^2/\text{NDF}: 20651.9/72$

In: 93.844 ± 37.102 $\chi^2/\text{NDF}: 9264.7/57$

Out: 931.994 ± 37.134 $\chi^2/\text{NDF}: 13555.7/62$

All: 512.563 ± 26.246 $\chi^2/\text{NDF}: 23075.3/120$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 223.164 ± 0.037 $\chi^2/\text{NDF}: 1300529.3/34$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 221.835 ± 0.036 $\chi^2/\text{NDF}: 1986062.0/37$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

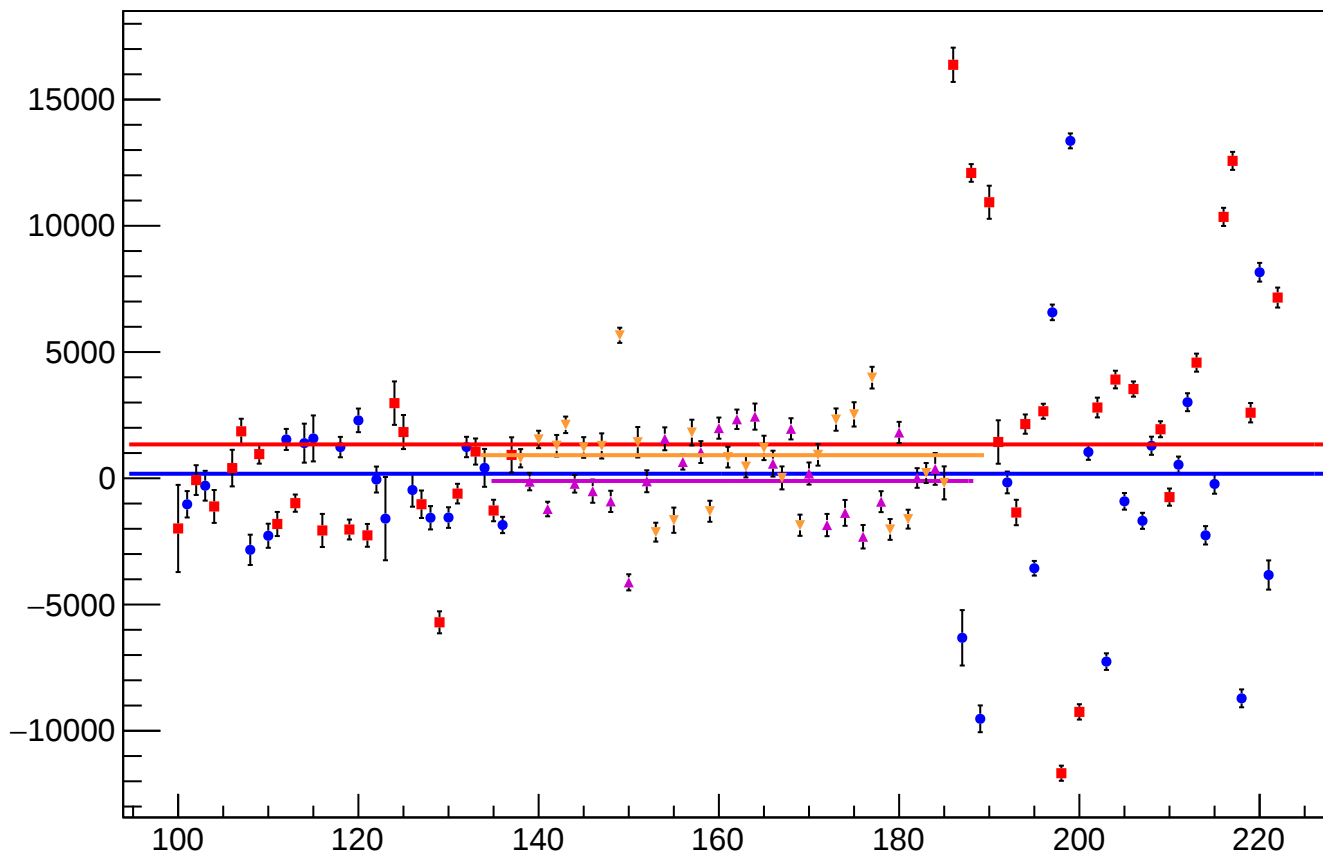
Right: 222.487 ± 0.026 $\chi^2/\text{NDF}: 3287260.4/72$

In: 218.995 ± 0.026 $\chi^2/\text{NDF}: 2352669.9/57$

Out: 224.746 ± 0.026 $\chi^2/\text{NDF}: 2826402.4/62$

All: 221.868 ± 0.019 $\chi^2/\text{NDF}: 5203078.1/120$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 180.065+/-69.390 χ^2/NDF : 4960.1/34

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 1341.625+/-68.329 χ^2/NDF : 7517.5/37

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

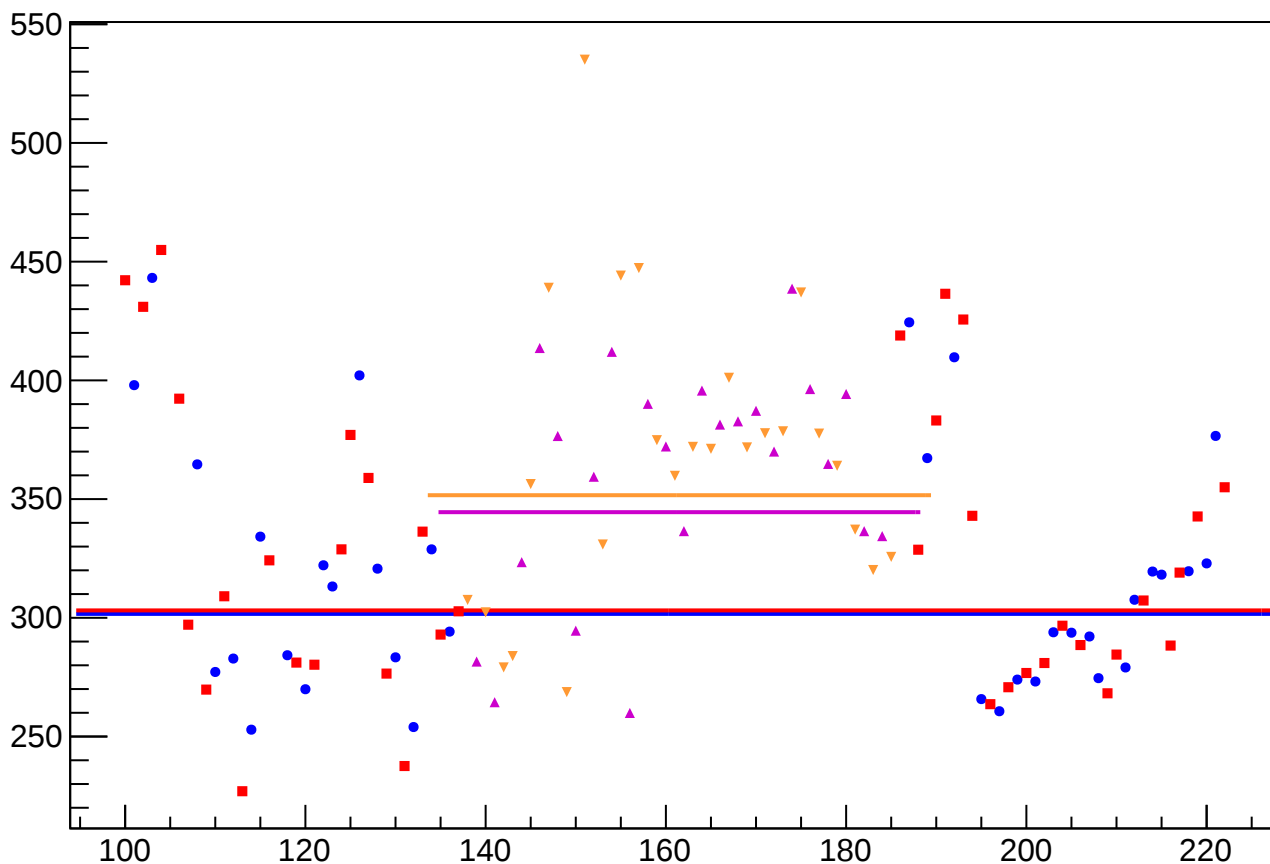
Right: 769.795+/-48.687 χ^2/NDF : 12619.9/72

In: 64.631+/-53.599 χ^2/NDF : 5357.2/57

Out: 1170.659+/-52.854 χ^2/NDF : 8151.4/62

All: 625.376+/-37.634 χ^2/NDF : 13724.5/120

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 301.654+/-0.049 χ^2/NDF : 687355.9/34

Left Out: 351.633+/-0.059 χ^2/NDF : 907849.3/24

Right Out: 303.119+/-0.048 χ^2/NDF : 961256.4/37

Left In: 344.491+/-0.060 χ^2/NDF : 768885.4/22

Left: 348.104+/-0.042 χ^2/NDF : 1683981.7/47

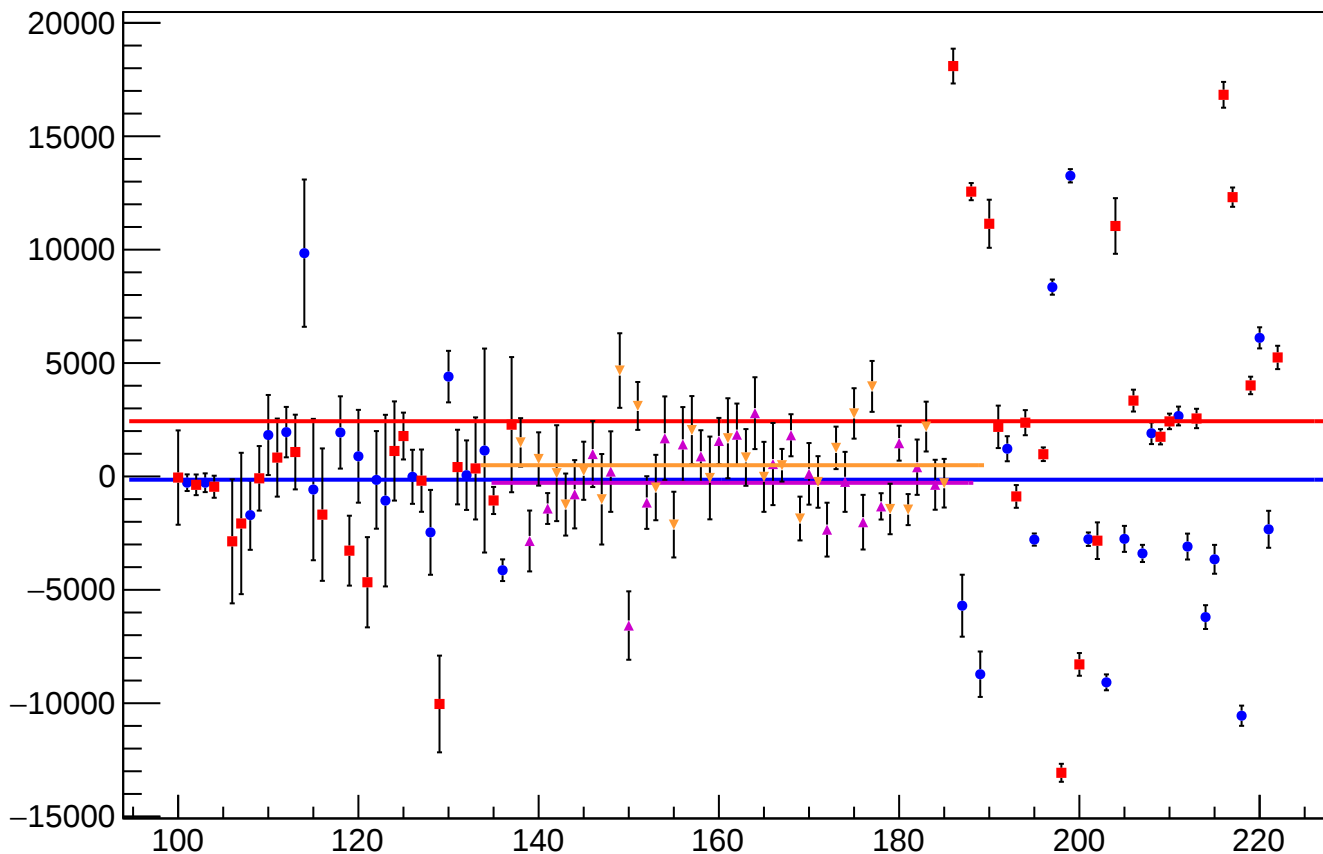
Right: 302.398+/-0.034 χ^2/NDF : 1649065.0/72

In: 318.933+/-0.038 χ^2/NDF : 1763684.3/57

Out: 322.605+/-0.037 χ^2/NDF : 2274055.9/62

All: 320.794+/-0.027 χ^2/NDF : 4042499.5/120

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -143.738 ± 90.624 $\chi^2/\text{NDF}: 4828.4/34$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 2435.033 ± 97.774 $\chi^2/\text{NDF}: 4767.5/37$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

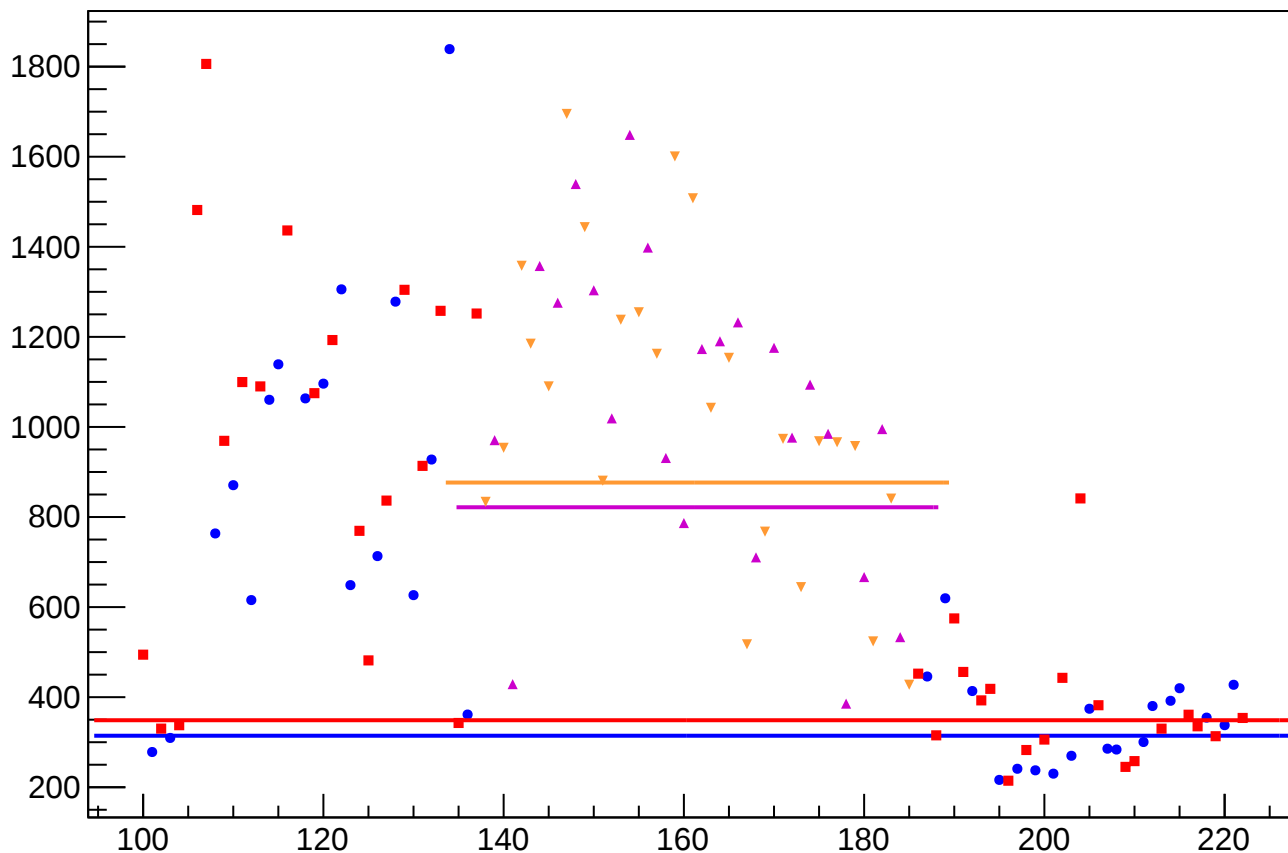
Right: 1047.927 ± 66.465 $\chi^2/\text{NDF}: 9970.1/72$

In: -161.862 ± 84.415 $\chi^2/\text{NDF}: 4885.9/57$

Out: 2140.408 ± 90.044 $\chi^2/\text{NDF}: 4883.5/62$

All: 915.069 ± 61.584 $\chi^2/\text{NDF}: 10117.4/120$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Left: 849.226 +/- 0.116 χ^2/NDF : 7934012.4/47

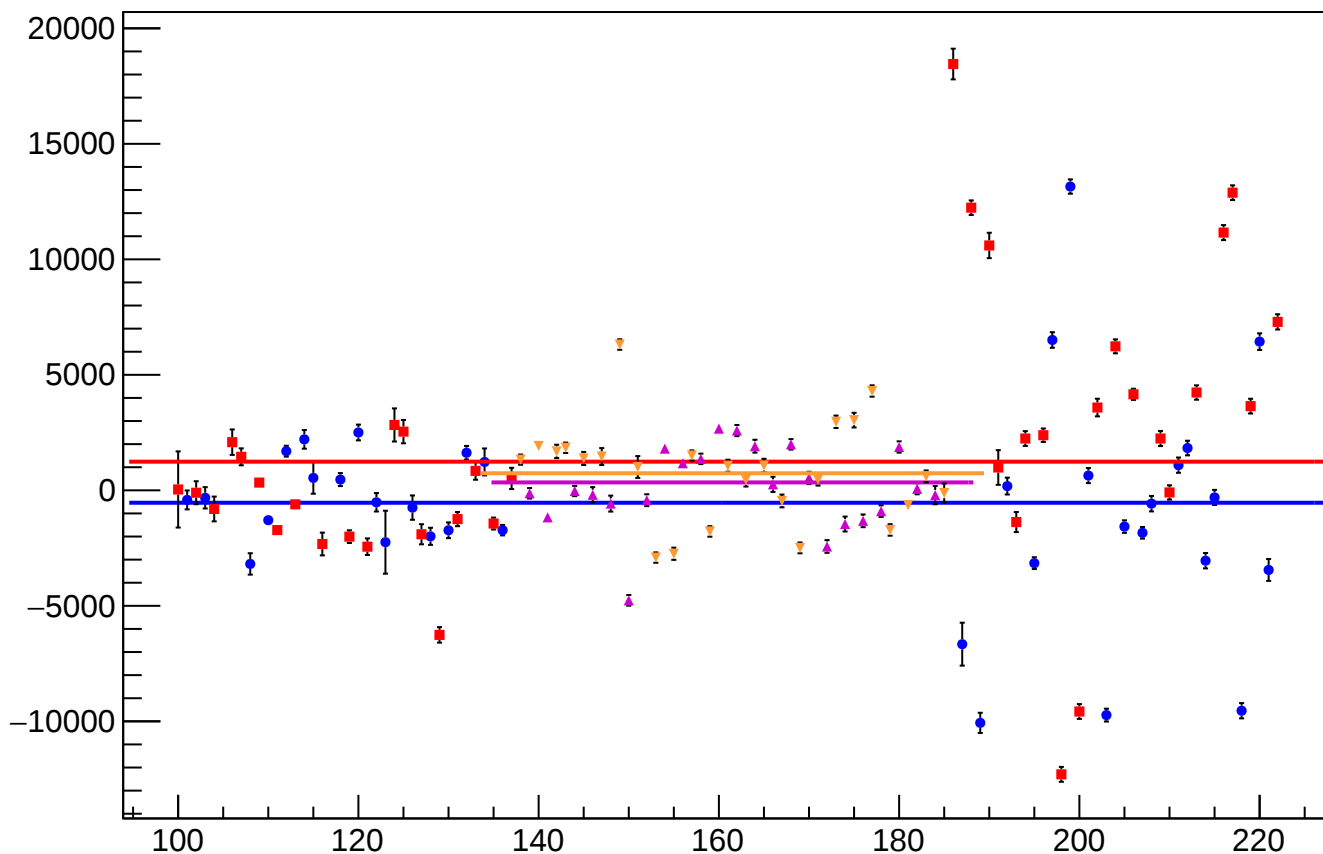
Right: 330.290 +/- 0.047 χ^2/NDF : 10698561.9/72

In: 381.523 +/- 0.060 χ^2/NDF : 17356817.5/57

Out: 428.945 +/- 0.064 χ^2/NDF : 18228868.5/62

All: 403.705 +/- 0.044 χ^2/NDF : 35880934.7/12

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -537.410 ± 56.379 $\chi^2/\text{NDF}: 5837.4/34$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 1240.741 ± 53.916 $\chi^2/\text{NDF}: 9764.8/37$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

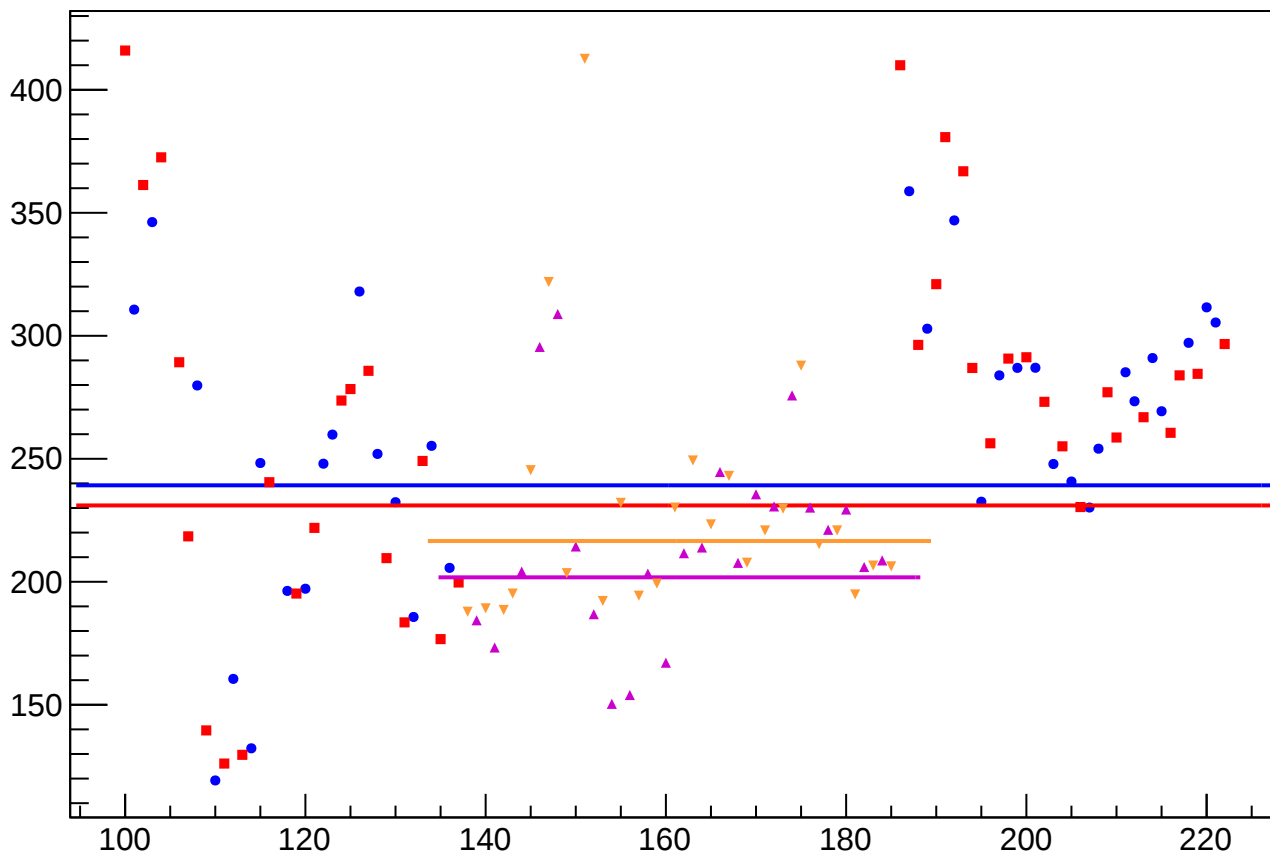
Right: 391.357 ± 38.966 $\chi^2/\text{NDF}: 16121.8/72$

In: -45.285 ± 37.427 $\chi^2/\text{NDF}: 7228.6/57$

Out: 979.022 ± 37.297 $\chi^2/\text{NDF}: 11745.1/62$

All: 468.648 ± 26.419 $\chi^2/\text{NDF}: 19349.5/120$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 239.219 $\pm$ 0.040 χ^2/NDF : 2161239.4/34

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF : 886214.1/24

Right Out: 231.037 $\pm$ 0.038 χ^2/NDF : 3190143.1/37

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

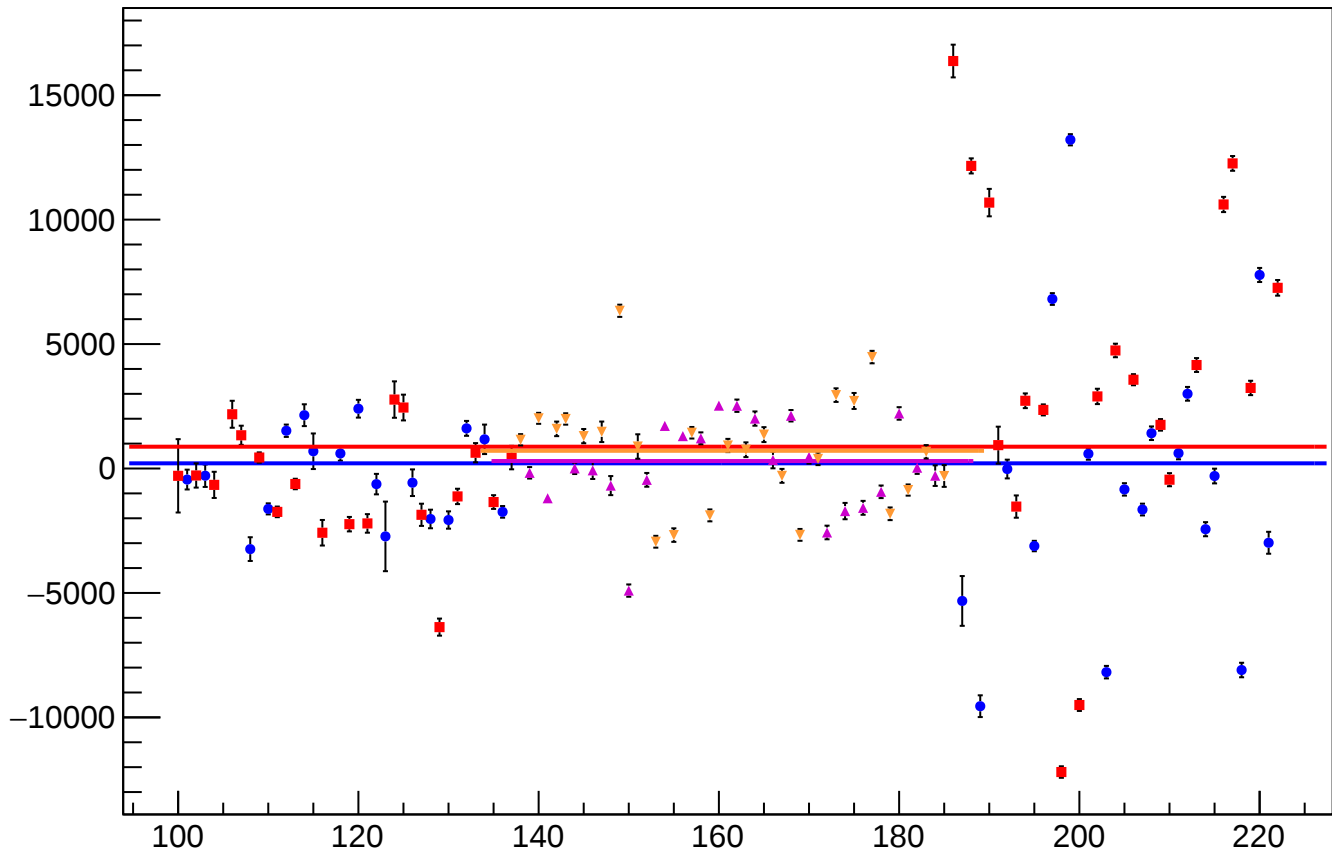
Right: 234.945 $\pm$ 0.028 χ^2/NDF : 5373384.3/72

In: 218.293 $\pm$ 0.026 χ^2/NDF : 3741093.8/57

Out: 223.495 $\pm$ 0.026 χ^2/NDF : 4151400.6/62

All: 220.903 $\pm$ 0.019 χ^2/NDF : 7911880.3/120

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 208.032 $\pm$ 51.741 χ^2 /NDF: 8263.1/34

Left Out: 711.174 $\pm$ 53.245 χ^2 /NDF:1835.3/24

Right Out: 876.263 $\pm$ 50.770 χ^2 /NDF: 12038.7/37

Left In: 300.516 $\pm$ 51.984 χ^2 /NDF:1208.6/22

Left: 500.925 $\pm$ 37.196 χ^2 /NDF: 3074.4/47

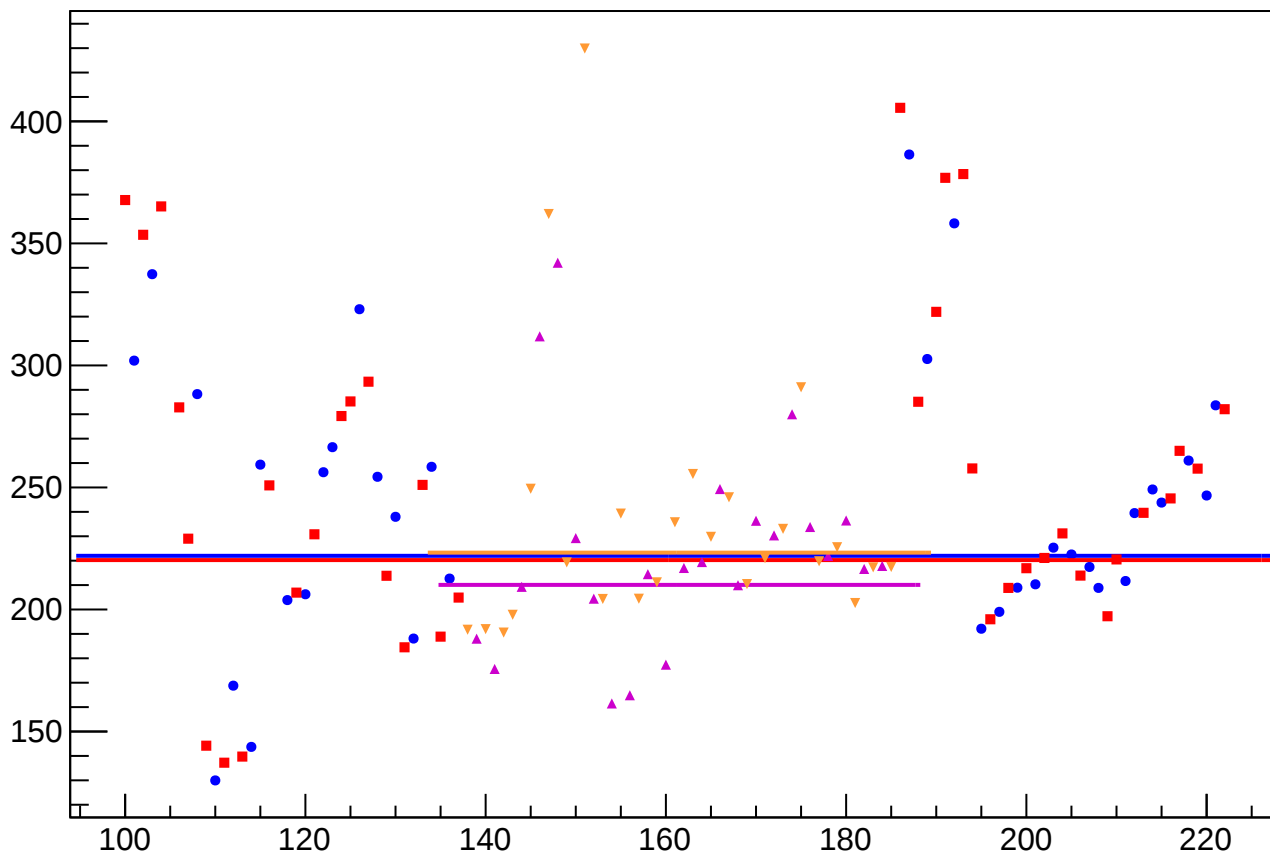
Right: 548.477 $\pm$ 36.238 χ^2 /NDF: 20386.8/72

In: 254.058 $\pm$ 36.672 χ^2 /NDF:9473.3/57

Out: 797.645 $\pm$ 36.744 χ^2 /NDF:13879.0/62

All: 525.321 $\pm$ 25.956 χ^2 /NDF: 23462.0/120

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 221.992 $\pm$ 0.037 χ^2 /NDF: 1498546.1/34

Left Out: 223.296 $\pm$ 0.038 χ^2 /NDF:922768.4/24

Right Out: 220.241 $\pm$ 0.036 χ^2 /NDF: 2311613.1/37

Left In: 210.080 $\pm$ 0.037 χ^2 /NDF:1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2 /NDF: 2001132.1/47

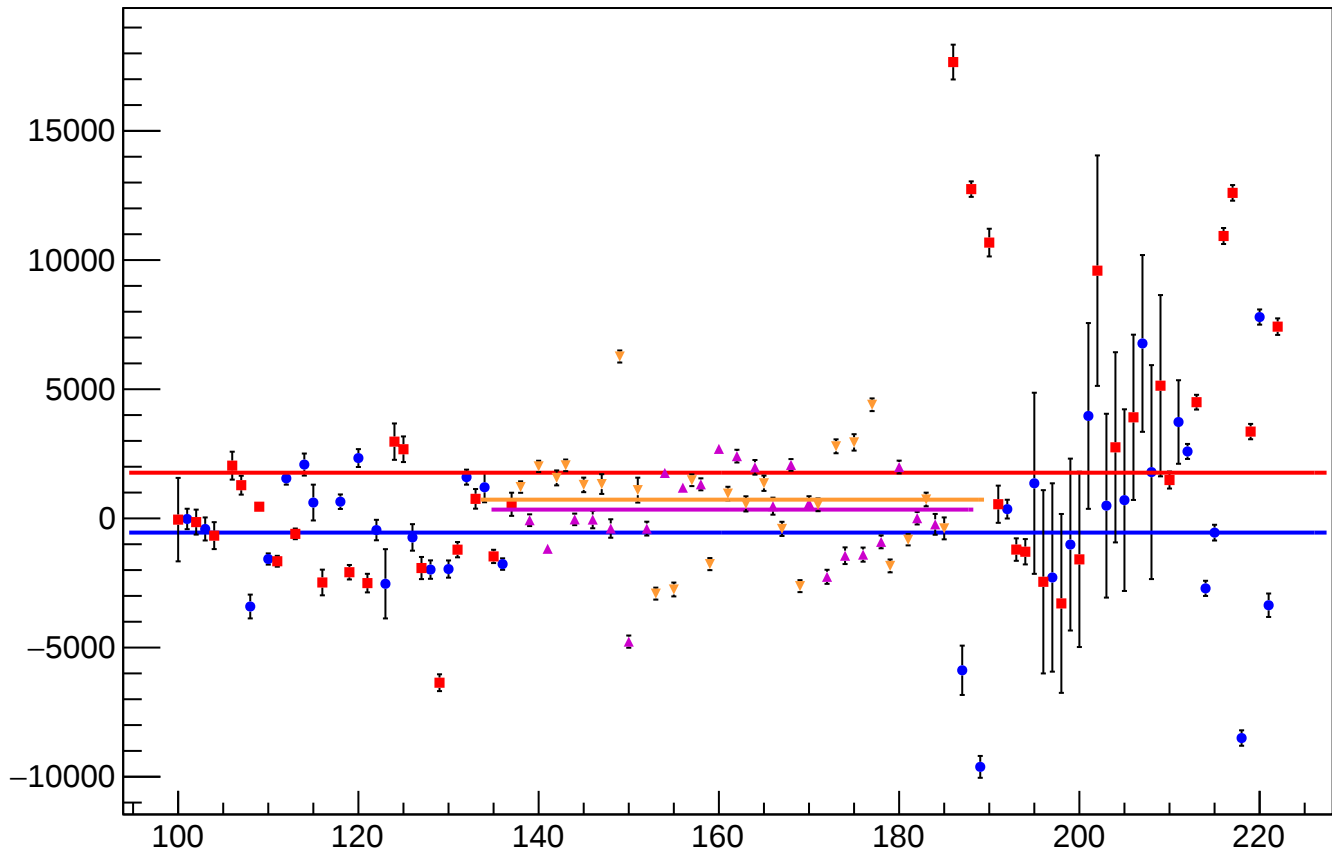
Right: 221.100 $\pm$ 0.026 χ^2 /NDF: 3811325.3/72

In: 216.064 $\pm$ 0.026 χ^2 /NDF:2566572.2/57

Out: 221.696 $\pm$ 0.026 χ^2 /NDF:3237830.3/62

All: 218.874 $\pm$ 0.018 χ^2 /NDF: 5827946.8/120

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -549.186 ± 67.093 χ^2/NDF : 2624.6/34

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 1769.104 ± 61.078 χ^2/NDF : 6715.6/37

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

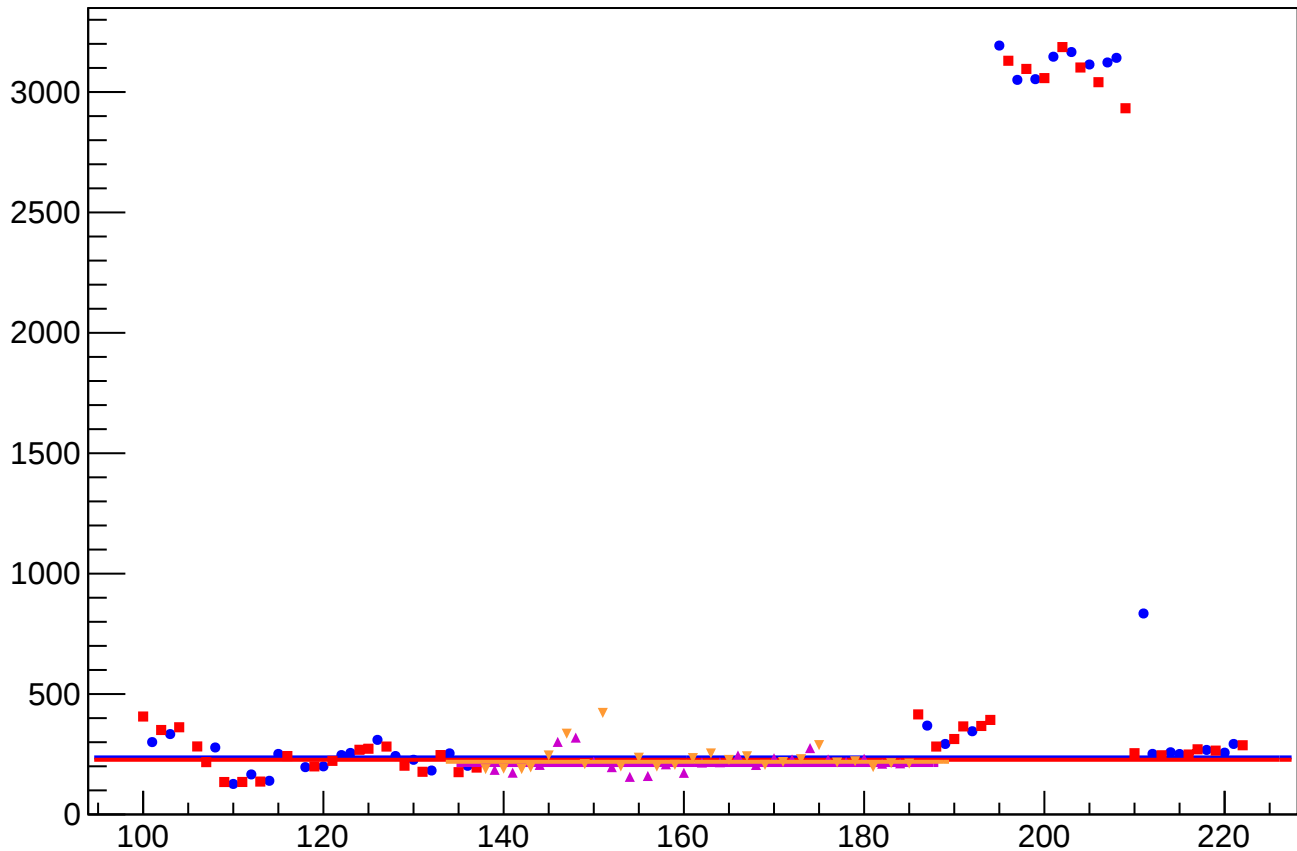
Right: 718.526 ± 45.166 χ^2/NDF : 9993.0/72

In: 16.293 ± 40.502 χ^2/NDF : 3938.2/57

Out: 1165.818 ± 39.664 χ^2/NDF : 8797.0/62

All: 603.069 ± 28.338 χ^2/NDF : 13146.4/120

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 236.871 $\pm$ 0.047 χ^2 /NDF: 12240993.0/34

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF:896914.5/24

Right Out: 227.064 $\pm$ 0.043 χ^2 /NDF: 11676216.5/37

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

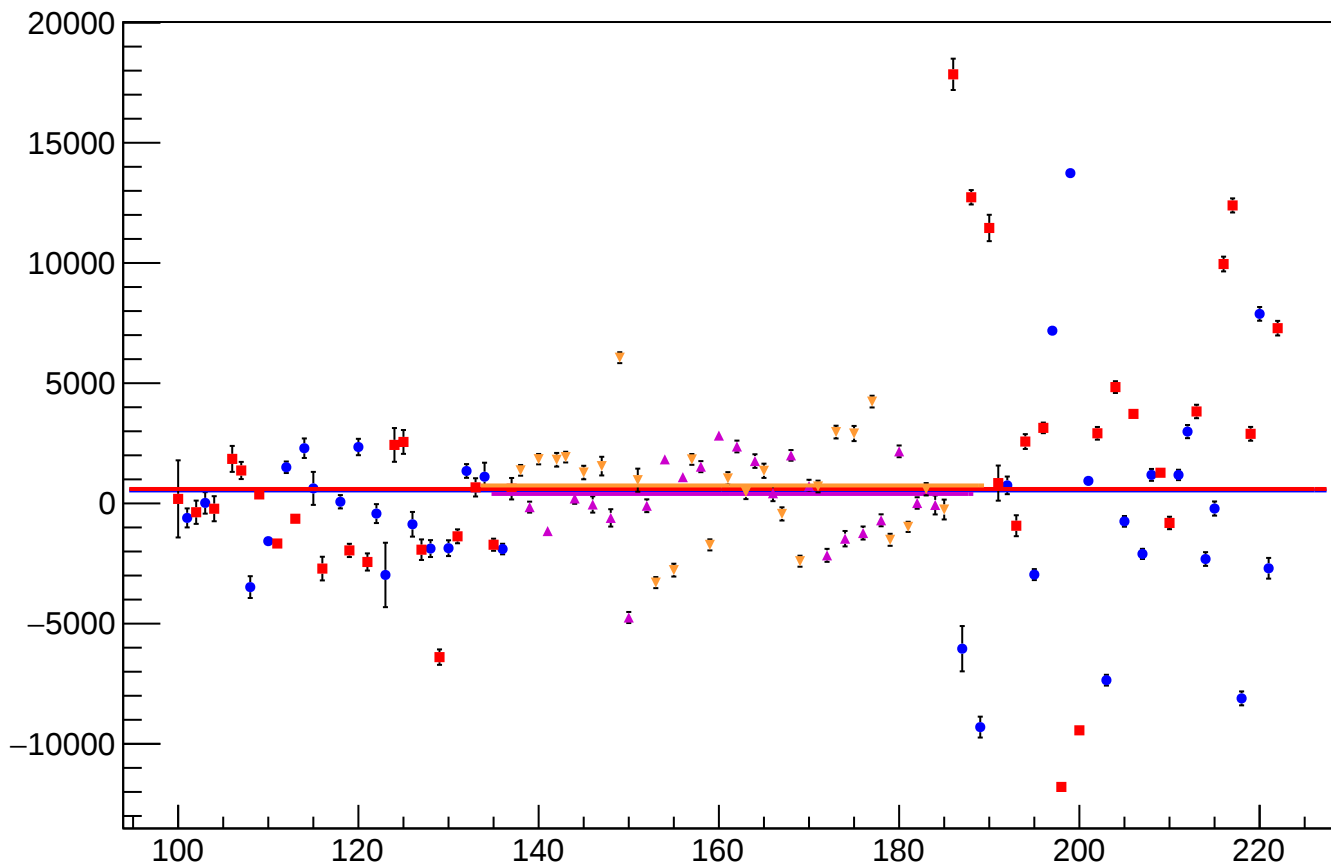
Right: 231.508 $\pm$ 0.032 χ^2 /NDF: 23940573.7/72

In: 216.772 $\pm$ 0.029 χ^2 /NDF:13520533.6/57

Out: 222.267 $\pm$ 0.028 χ^2 /NDF:12594467.4/62

All: 219.577 $\pm$ 0.020 χ^2 /NDF: 26133791.2/12

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 540.092+/-48.599 χ^2/NDF : 10258.3/34

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 600.433+/-47.804 χ^2/NDF : 13969.9/37

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

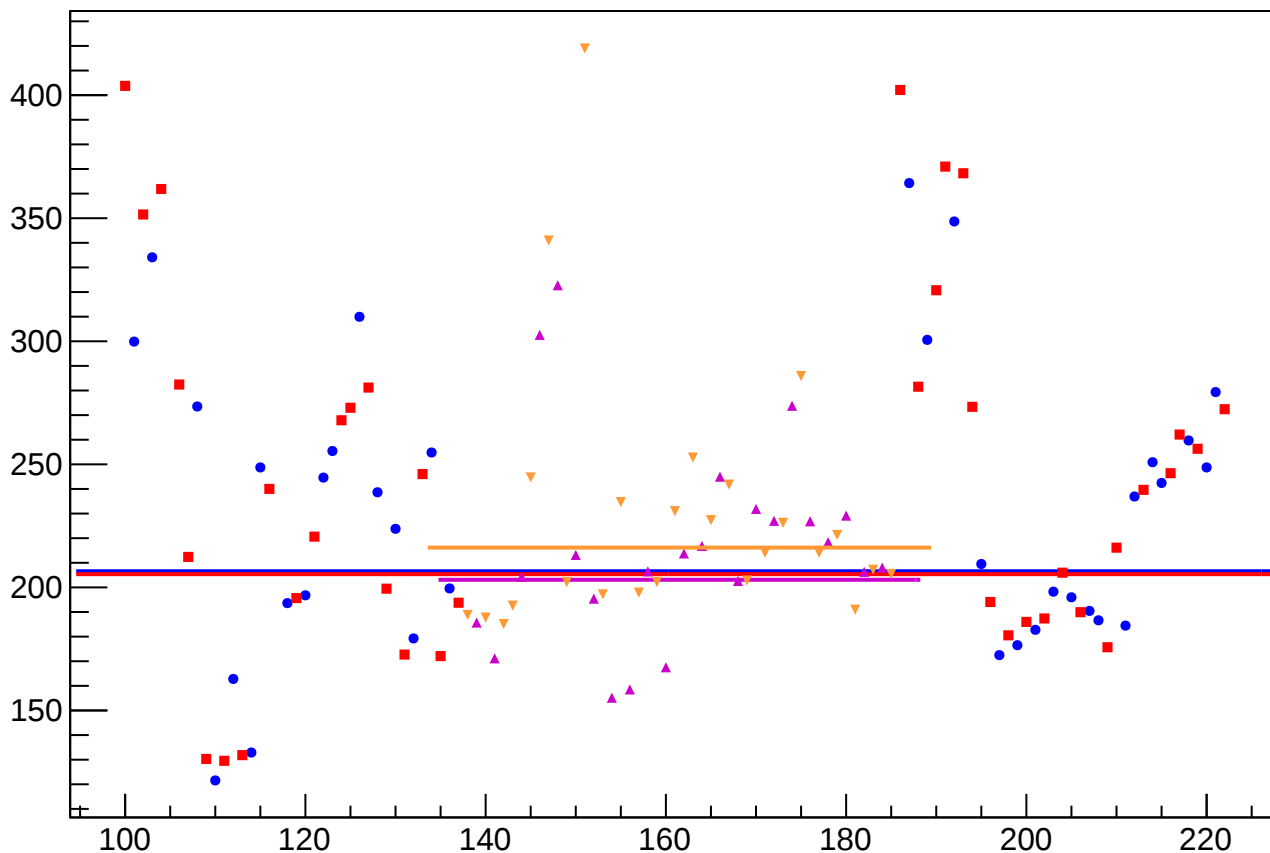
Right: 570.760+/-34.080 χ^2/NDF : 24229.0/72

In: 469.758+/-34.954 χ^2/NDF :11499.1/57

Out: 667.865+/-35.065 χ^2/NDF :15916.3/62

All: 568.497+/-24.756 χ^2/NDF : 27431.4/120

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 206.561+/-0.034 χ^2/NDF : 1856137.0/34

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 205.377+/-0.034 χ^2/NDF : 2818779.7/37

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

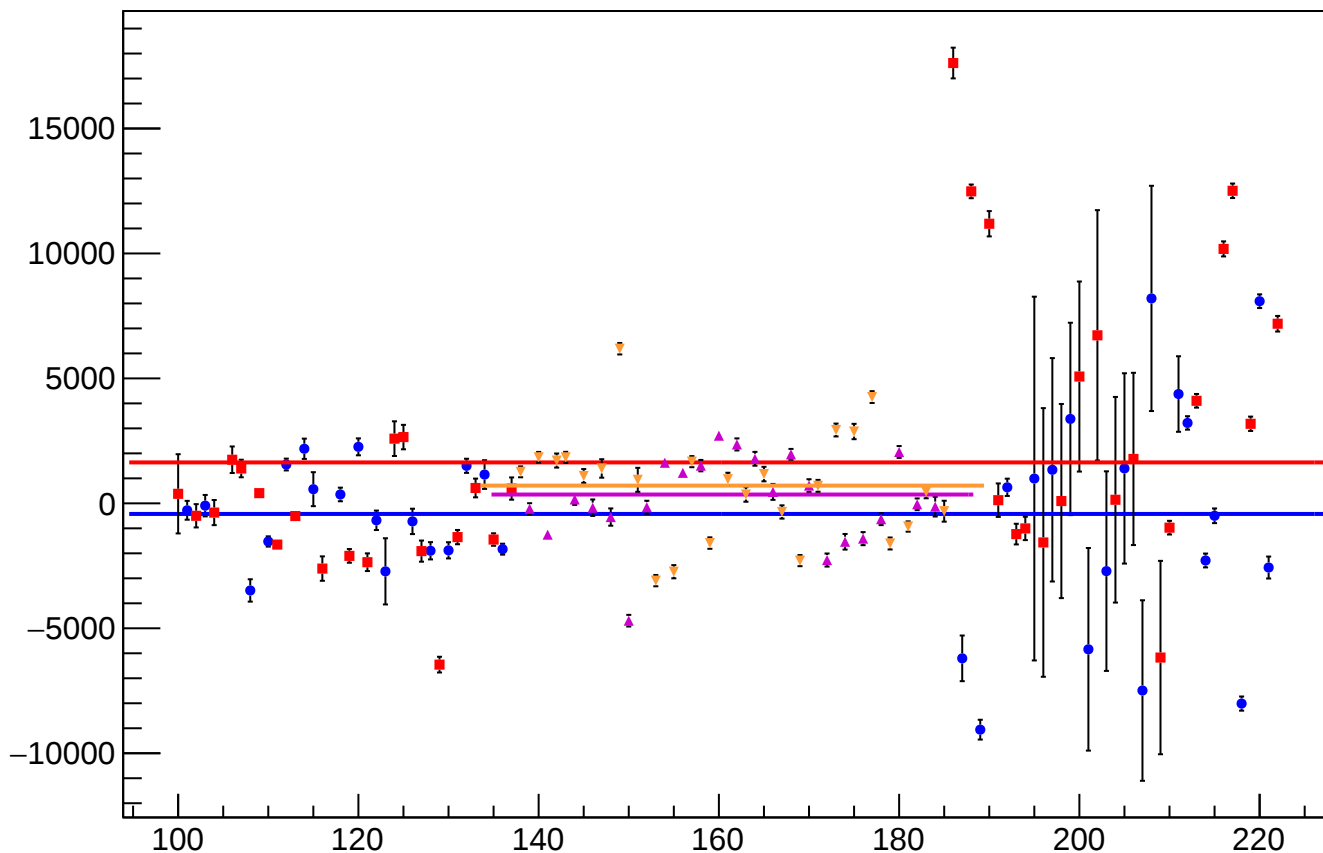
Right: 205.959+/-0.024 χ^2/NDF : 4675519.7/72

In: 204.891+/-0.025 χ^2/NDF : 2899044.1/57

Out: 210.367+/-0.025 χ^2/NDF : 3811991.3/62

All: 207.620+/-0.018 χ^2/NDF : 6735499.1/120

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -423.863 ± 64.411 $\chi^2/\text{NDF}: 2878.4/34$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 1638.187 ± 58.323 $\chi^2/\text{NDF}: 7281.0/37$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

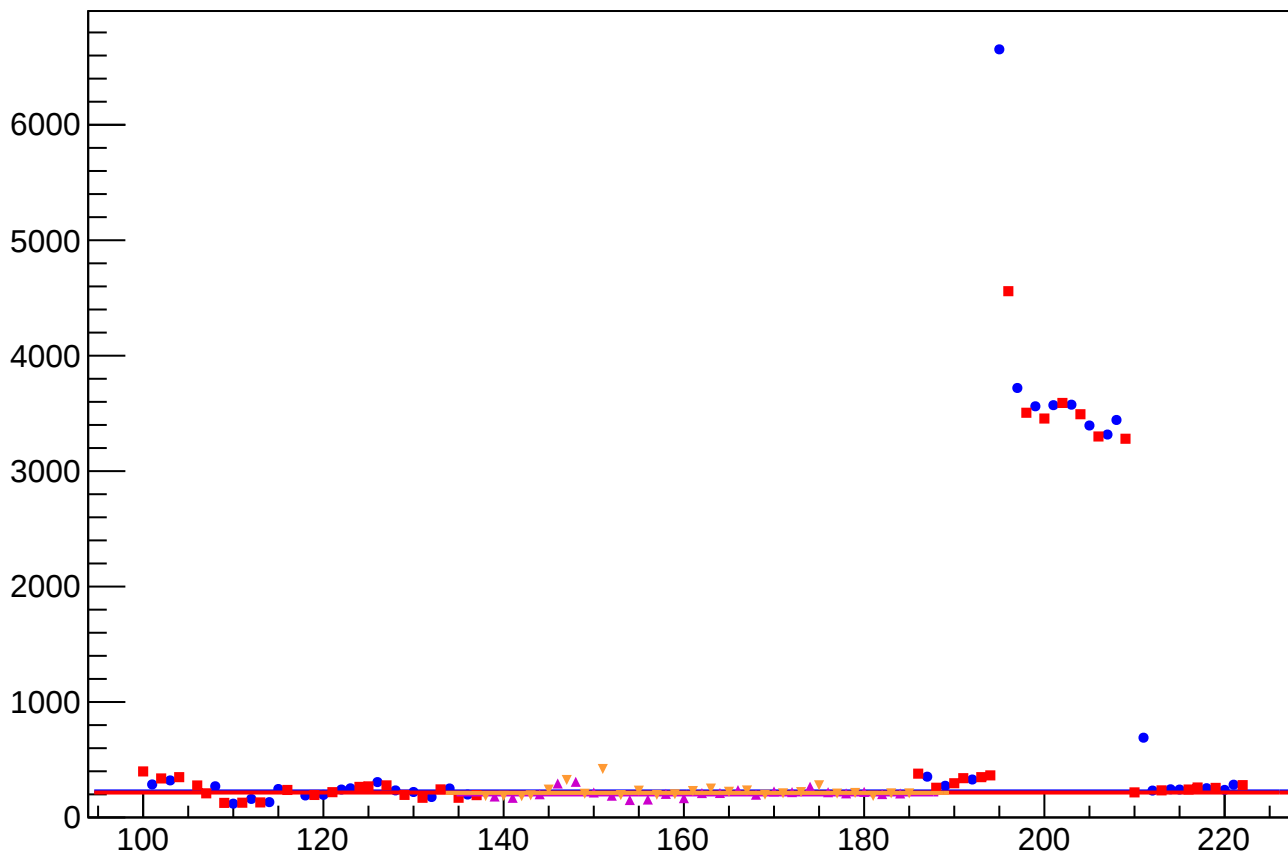
Right: 709.196 ± 43.233 $\chi^2/\text{NDF}: 10722.6/72$

In: 65.536 ± 39.157 $\chi^2/\text{NDF}: 4203.0/57$

Out: 1110.100 ± 38.285 $\chi^2/\text{NDF}: 9357.4/62$

All: 599.572 ± 27.375 $\chi^2/\text{NDF}: 13924.3/120$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 225.703+/-0.046 χ^2/NDF : 12596055.1/34

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 215.769+/-0.041 χ^2/NDF : 11945120.6/37

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

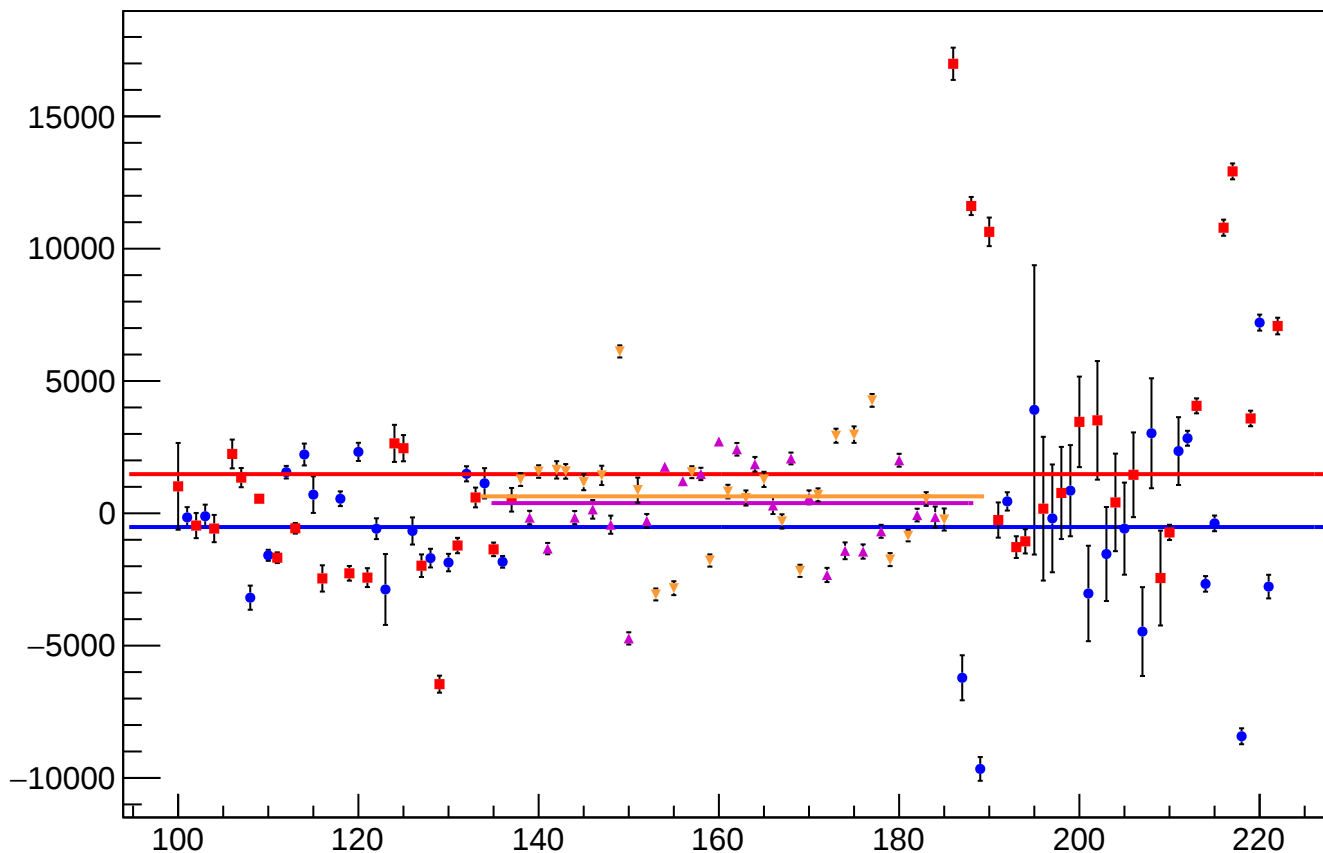
Right: 220.244+/-0.031 χ^2/NDF : 24567315.5/72

In: 208.958+/-0.028 χ^2/NDF : 13796389.6/57

Out: 214.033+/-0.027 χ^2/NDF : 12864460.1/62

All: 211.553+/-0.019 χ^2/NDF : 26678024.4/12

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -518.765 ± 65.916 $\chi^2/\text{NDF}: 2439.3/34$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 1480.034 ± 59.835 $\chi^2/\text{NDF}: 6461.9/37$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

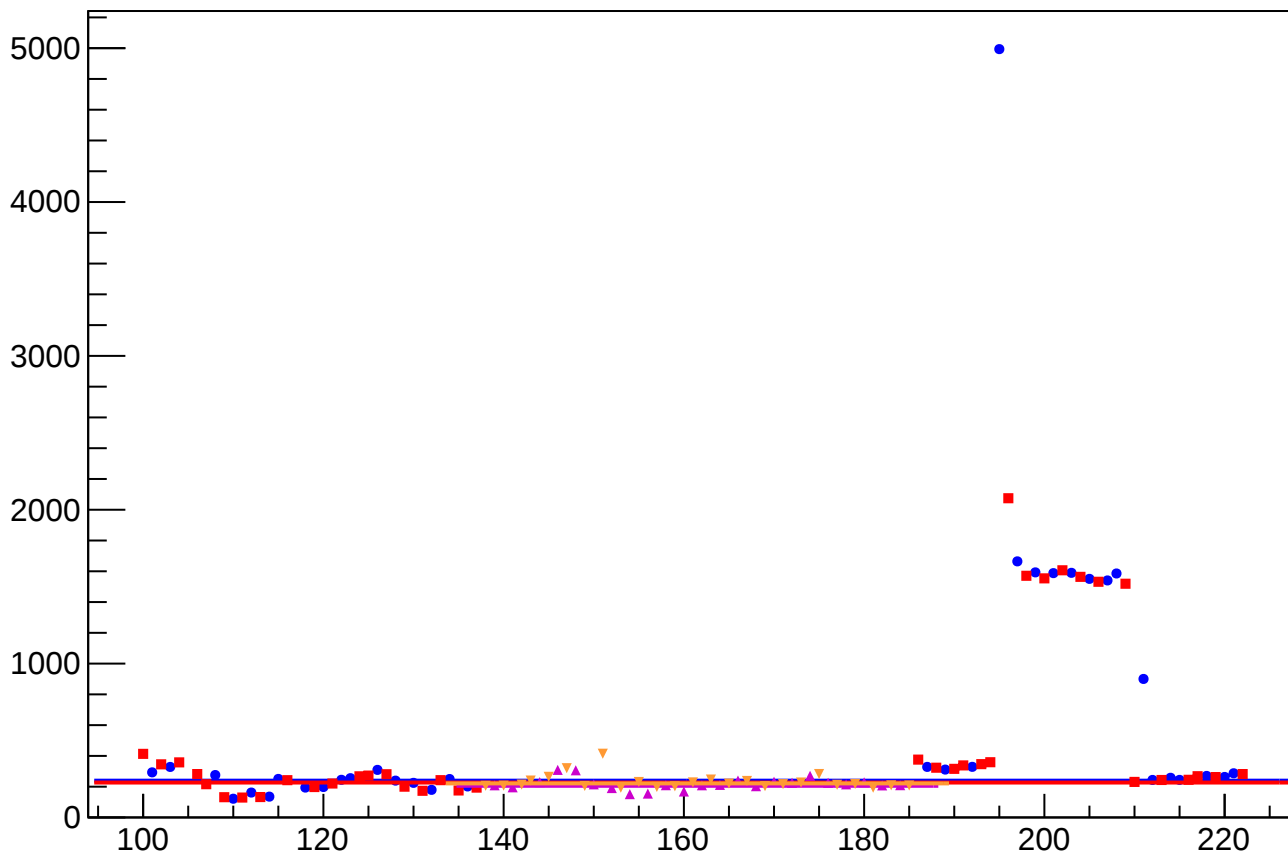
Right: 577.065 ± 44.304 $\chi^2/\text{NDF}: 9405.2/72$

In: 47.406 ± 40.333 $\chi^2/\text{NDF}: 3795.2/57$

Out: 1007.033 ± 39.551 $\chi^2/\text{NDF}: 8432.1/62$

All: 536.610 ± 28.239 $\chi^2/\text{NDF}: 12515.9/120$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 239.050 $\pm$ 0.047 χ^2 /NDF: 11359361.9/34

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 226.945 $\pm$ 0.042 χ^2 /NDF: 10332559.1/37

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

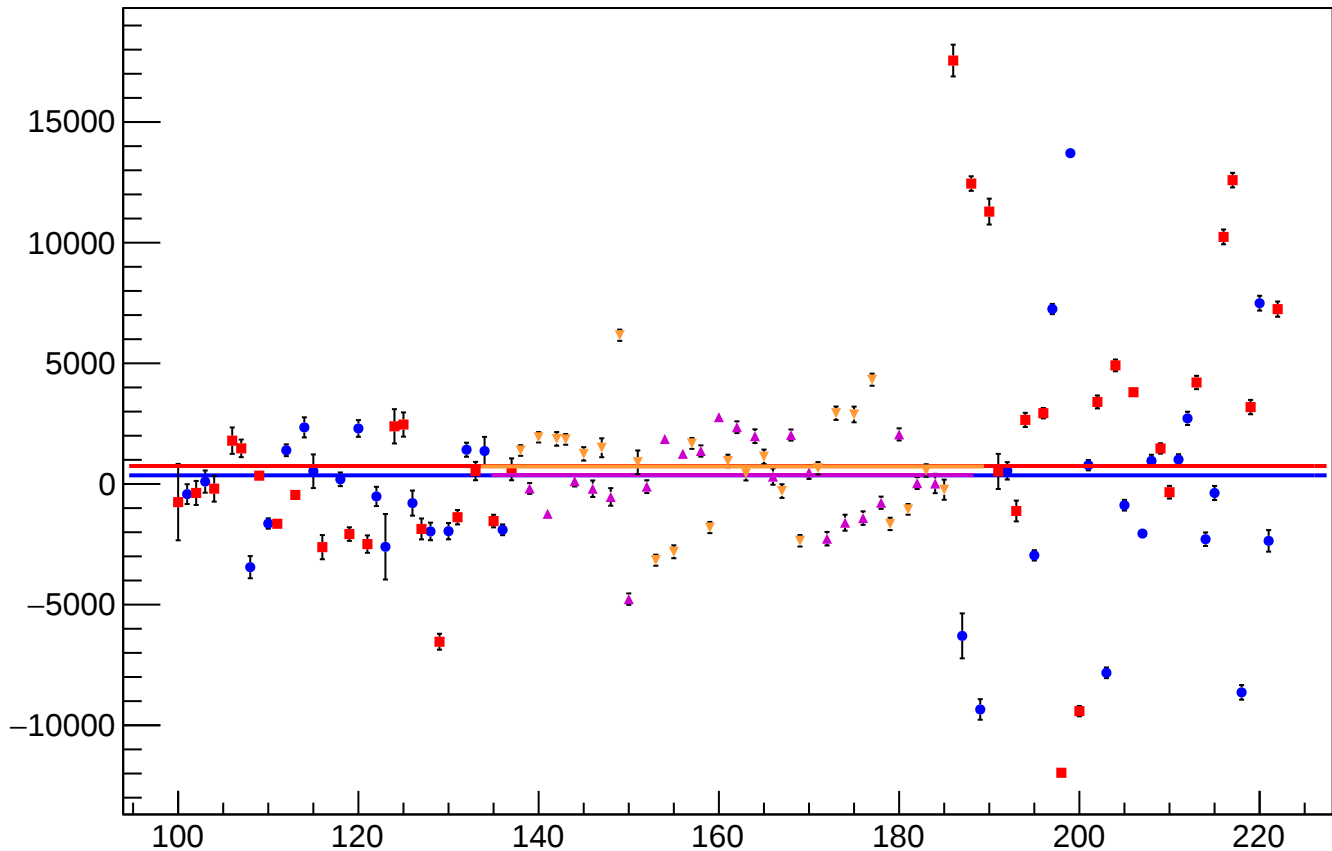
Right: 232.414 $\pm$ 0.031 χ^2 /NDF: 21728895.5/72

In: 218.251 $\pm$ 0.029 χ^2 /NDF: 12672560.4/57

Out: 223.822 $\pm$ 0.028 χ^2 /NDF: 11120072.3/62

All: 221.091 $\pm$ 0.020 χ^2 /NDF: 23812083.7/12

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 357.577+/-49.169 χ^2/NDF : 10080.6/34

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 744.604+/-48.566 χ^2/NDF : 13546.3/37

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

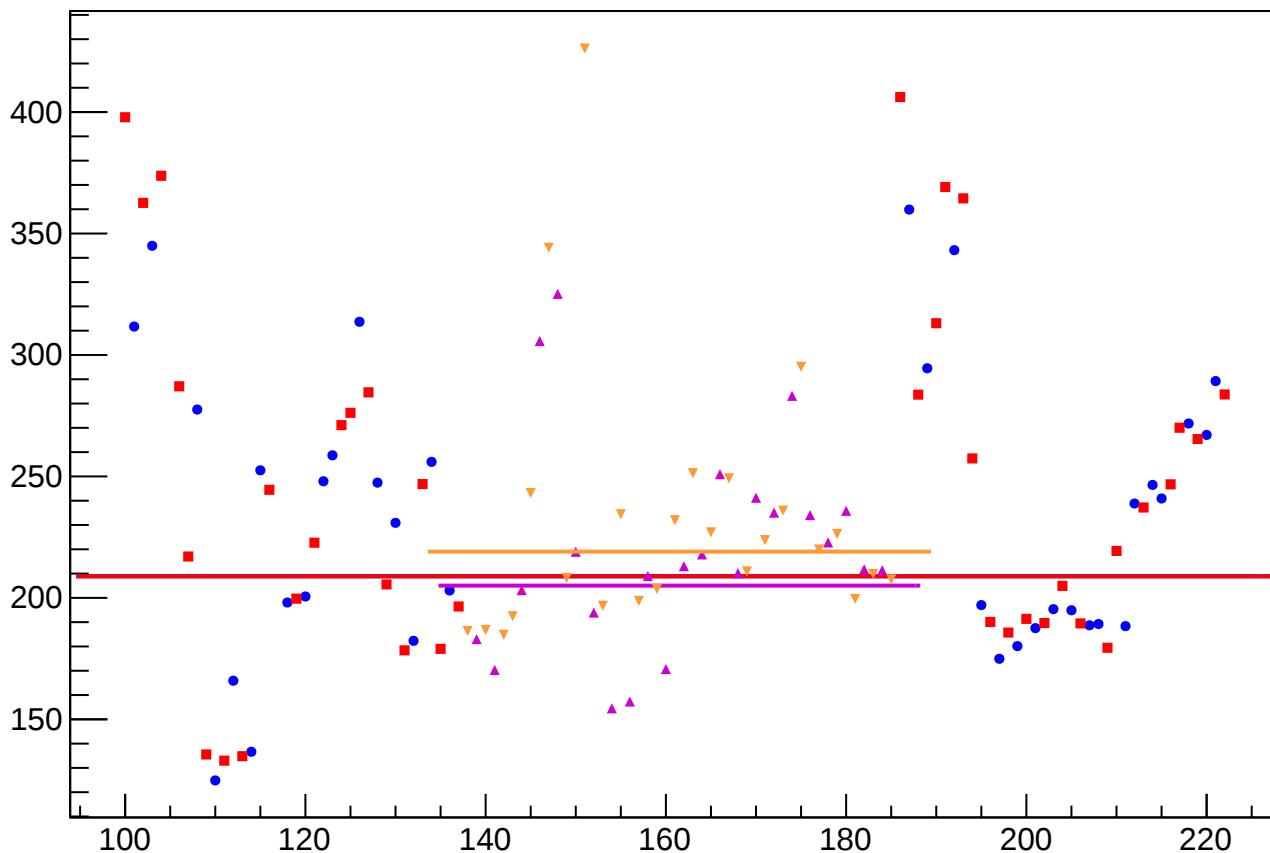
Right: 553.479+/-34.553 χ^2/NDF : 23658.3/72

In: 363.773+/-35.359 χ^2/NDF :11303.8/57

Out: 735.644+/-35.591 χ^2/NDF :15429.5/62

All: 548.493+/-25.084 χ^2/NDF : 26788.3/120

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 208.897 ± 0.035 χ^2/NDF : 1850606.1/34

Left Out: 219.049 ± 0.037 χ^2/NDF : 975564.4/24

Right Out: 208.867 ± 0.034 χ^2/NDF : 2686115.2/37

Left In: 205.046 ± 0.036 χ^2/NDF : 1144197.1/22

Left: 211.855 ± 0.026 χ^2/NDF : 2193394.9/47

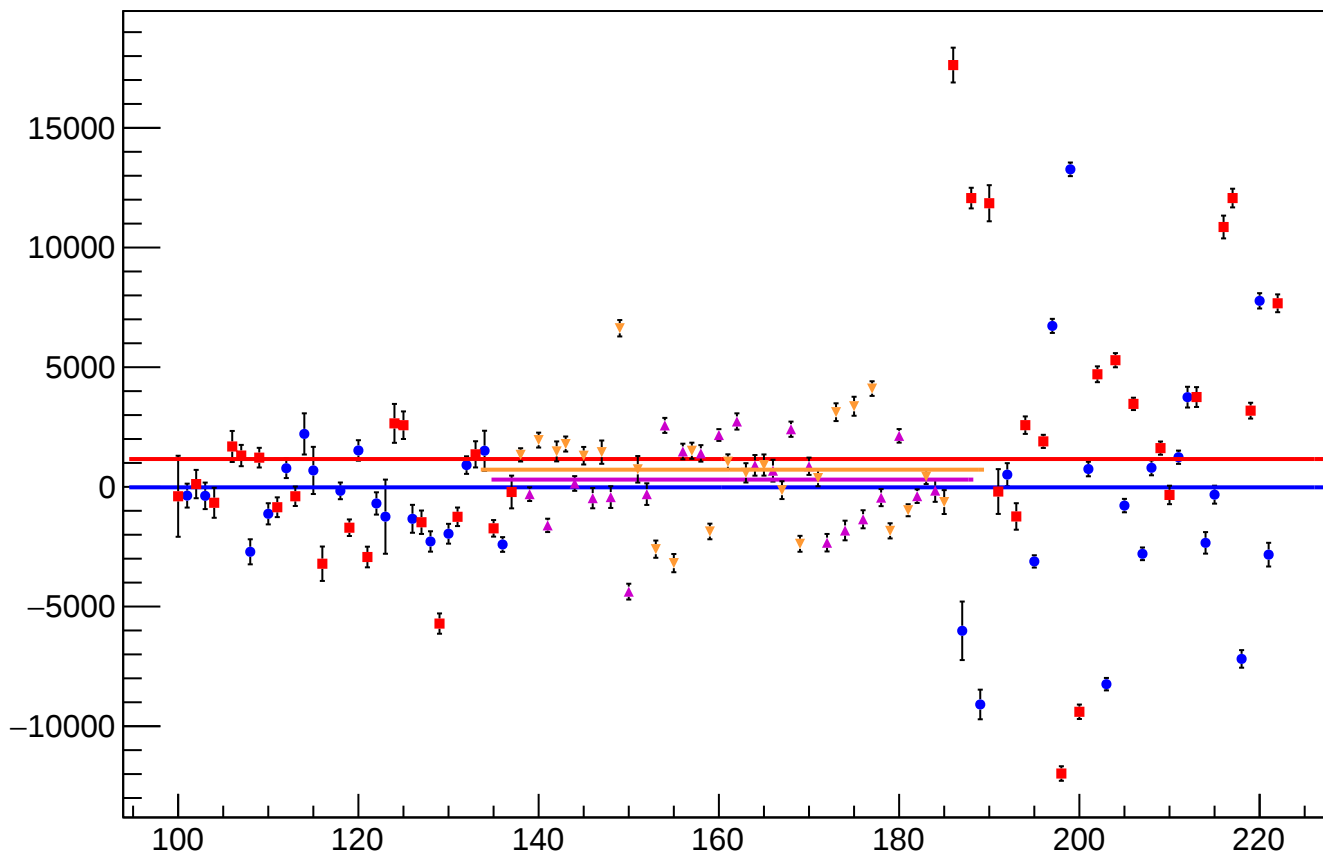
Right: 208.882 ± 0.024 χ^2/NDF : 4536721.7/72

In: 207.038 ± 0.025 χ^2/NDF : 3000727.2/57

Out: 213.581 ± 0.025 χ^2/NDF : 3702373.8/62

All: 210.288 ± 0.018 χ^2/NDF : 6737117.0/120

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -19.335 ± 64.866 χ^2/NDF : 5533.8/34

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 1163.340 ± 66.534 χ^2/NDF : 7126.9/37

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

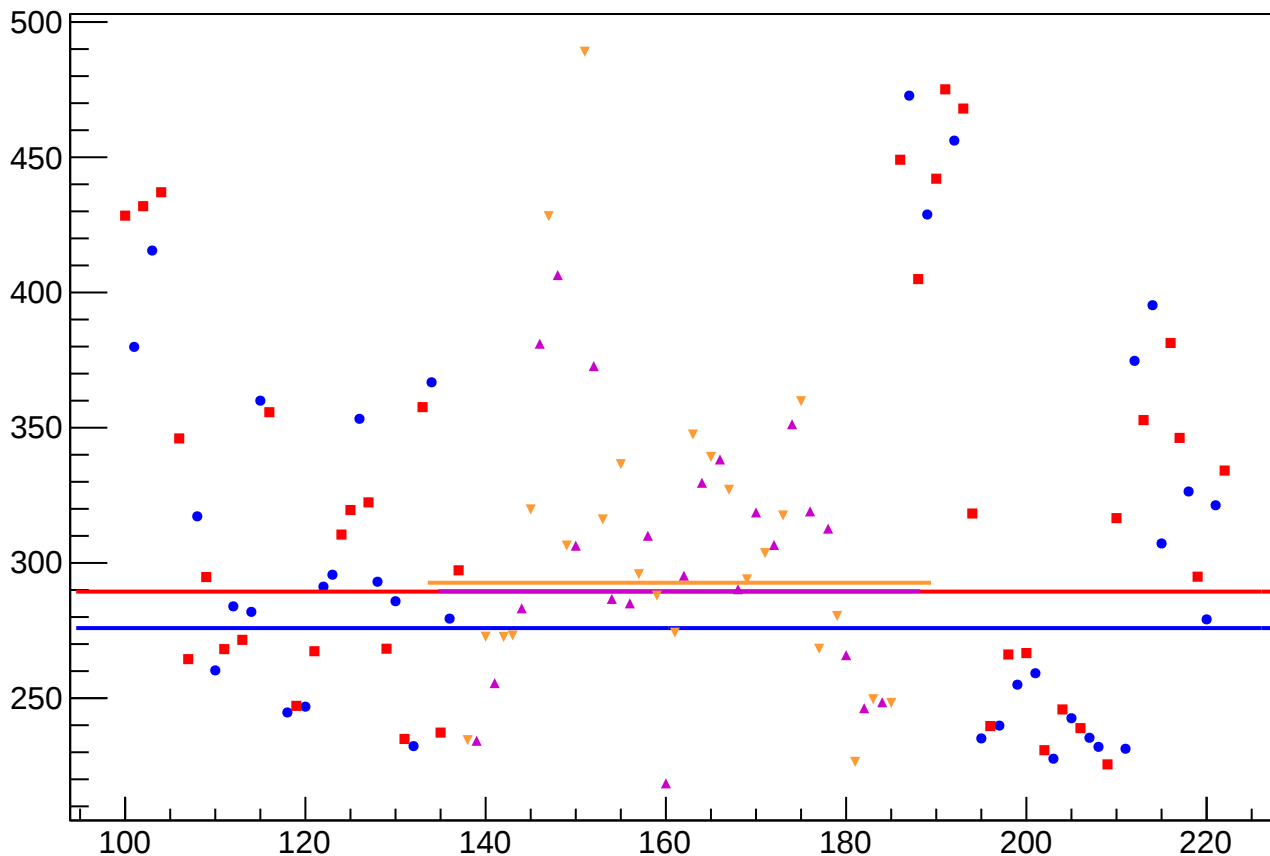
Right: 556.990 ± 46.446 χ^2/NDF : 12822.7/72

In: 127.934 ± 47.876 χ^2/NDF : 6188.6/57

Out: 951.032 ± 48.094 χ^2/NDF : 8166.8/62

All: 537.612 ± 33.930 χ^2/NDF : 14502.5/120

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 275.914 ± 0.046 $\chi^2/\text{NDF}: 1465355.2/34$

Left Out: 292.686 ± 0.049 $\chi^2/\text{NDF}: 925193.6/24$

Right Out: 289.403 ± 0.047 $\chi^2/\text{NDF}: 1663386.8/37$

Left In: 289.522 ± 0.050 $\chi^2/\text{NDF}: 777901.0/22$

Left: 291.134 ± 0.035 $\chi^2/\text{NDF}: 1705121.5/47$

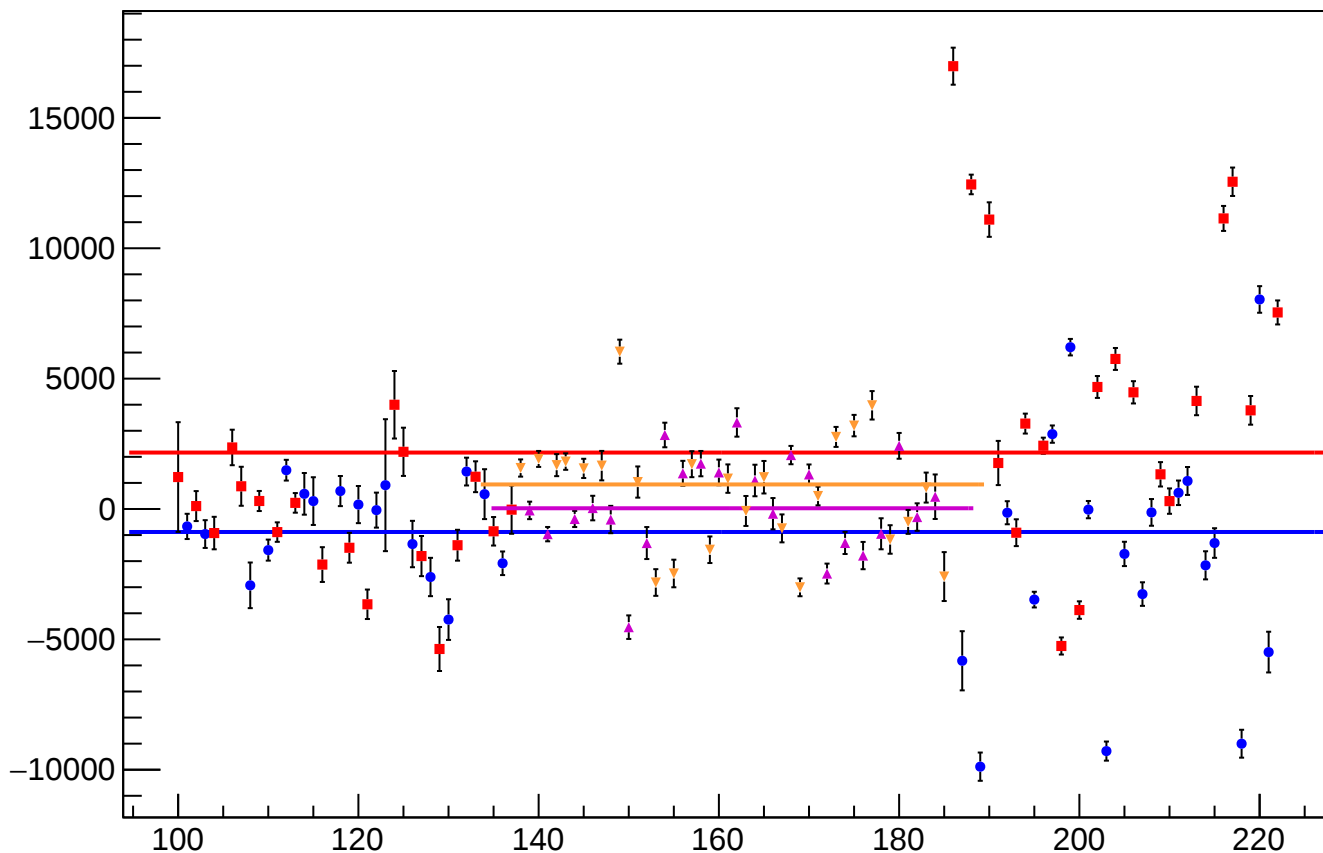
Right: 282.487 ± 0.033 $\chi^2/\text{NDF}: 3170888.4/72$

In: 282.109 ± 0.034 $\chi^2/\text{NDF}: 2283326.0/57$

Out: 290.970 ± 0.034 $\chi^2/\text{NDF}: 2590905.5/62$

All: 286.519 ± 0.024 $\chi^2/\text{NDF}: 4908337.1/120$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -881.987 ± 84.906 $\chi^2/\text{NDF}: 2281.2/34$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 2164.484 ± 81.389 $\chi^2/\text{NDF}: 3804.6/37$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

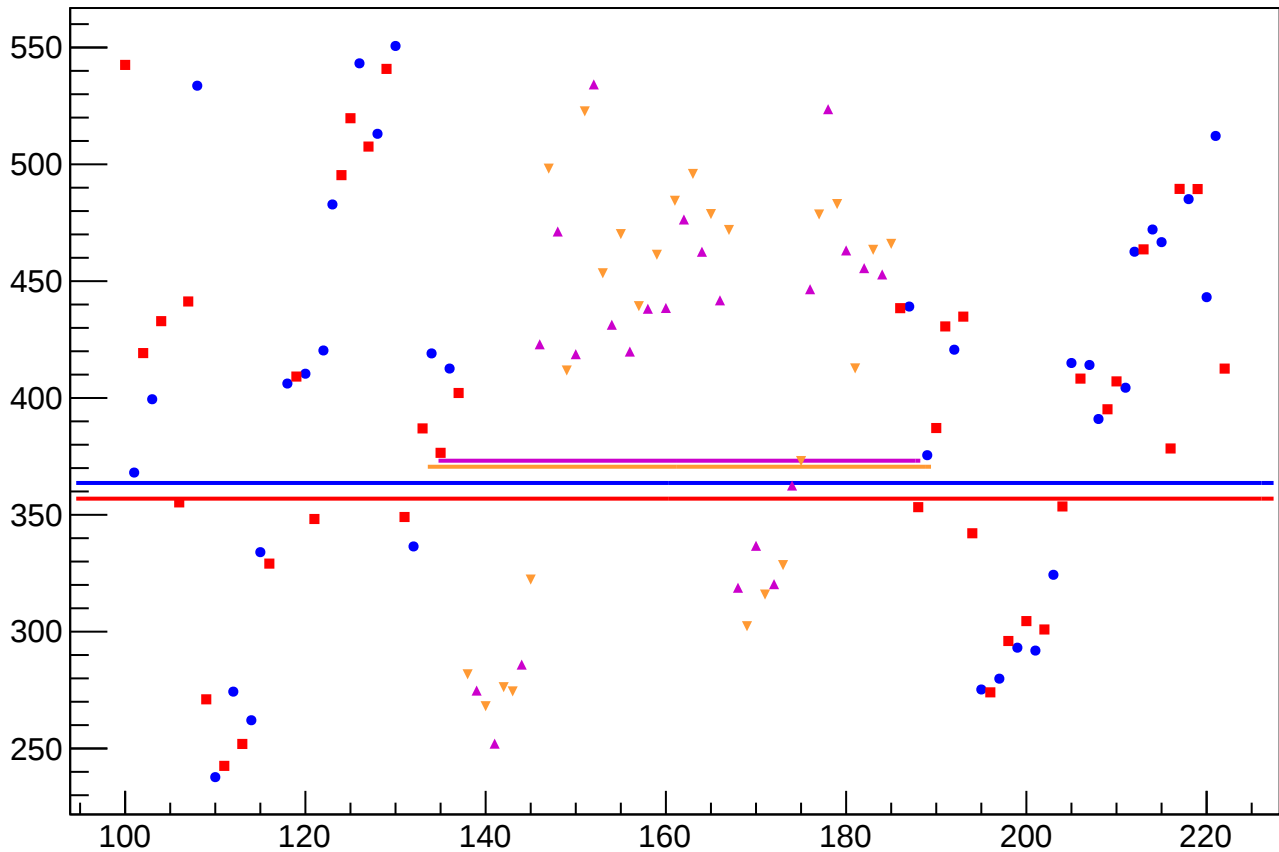
Right: 705.663 ± 58.755 $\chi^2/\text{NDF}: 6756.7/72$

In: -465.156 ± 62.498 $\chi^2/\text{NDF}: 2696.3/57$

Out: 1608.370 ± 60.098 $\chi^2/\text{NDF}: 4451.8/62$

All: 612.187 ± 43.319 $\chi^2/\text{NDF}: 7720.1/120$

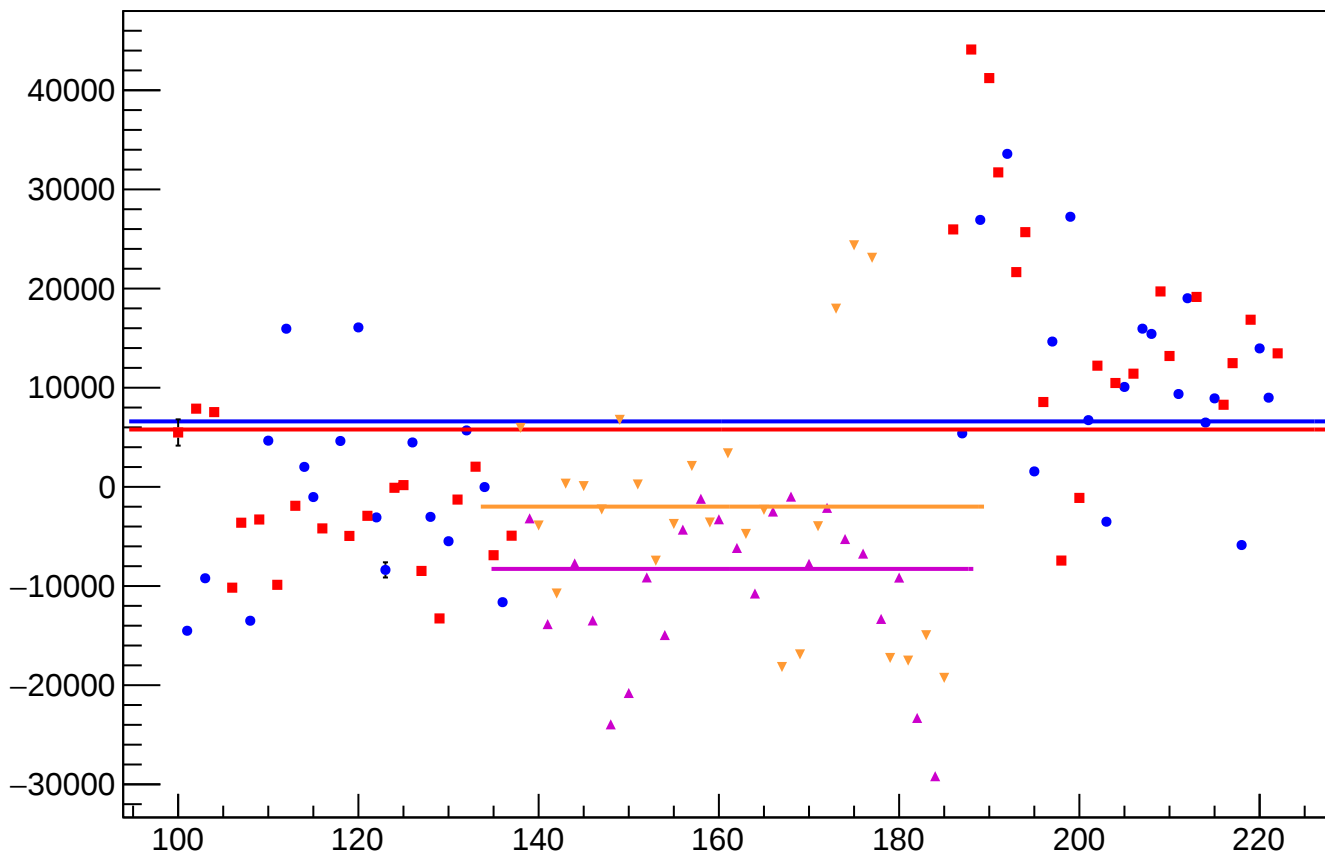
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 363.635 $\pm$ 0.060 χ^2/NDF : 1835534.9/34
 Left Out: 370.580 $\pm$ 0.063 χ^2/NDF : 1878118.9/24
 Right Out: 356.923 $\pm$ 0.058 χ^2/NDF : 1626093.9/37
 Left In: 373.161 $\pm$ 0.065 χ^2/NDF : 1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2/NDF : 3515172.3/47
 Right: 360.137 $\pm$ 0.042 χ^2/NDF : 3468142.9/72
 In: 368.000 $\pm$ 0.044 χ^2/NDF : 3483312.5/57
 Out: 363.133 $\pm$ 0.042 χ^2/NDF : 3529820.6/62
 All: 365.471 $\pm$ 0.031 χ^2/NDF : 7019433.1/120

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6603.746+/-38.496

χ^2/NDF : 96972.3/34

Left Out: -1991.788+/-42.427

χ^2/NDF : 63766.6/24

Right Out: 5785.090+/-37.164

χ^2/NDF : 147766.2/37

Left In: -8273.228+/-44.301

χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

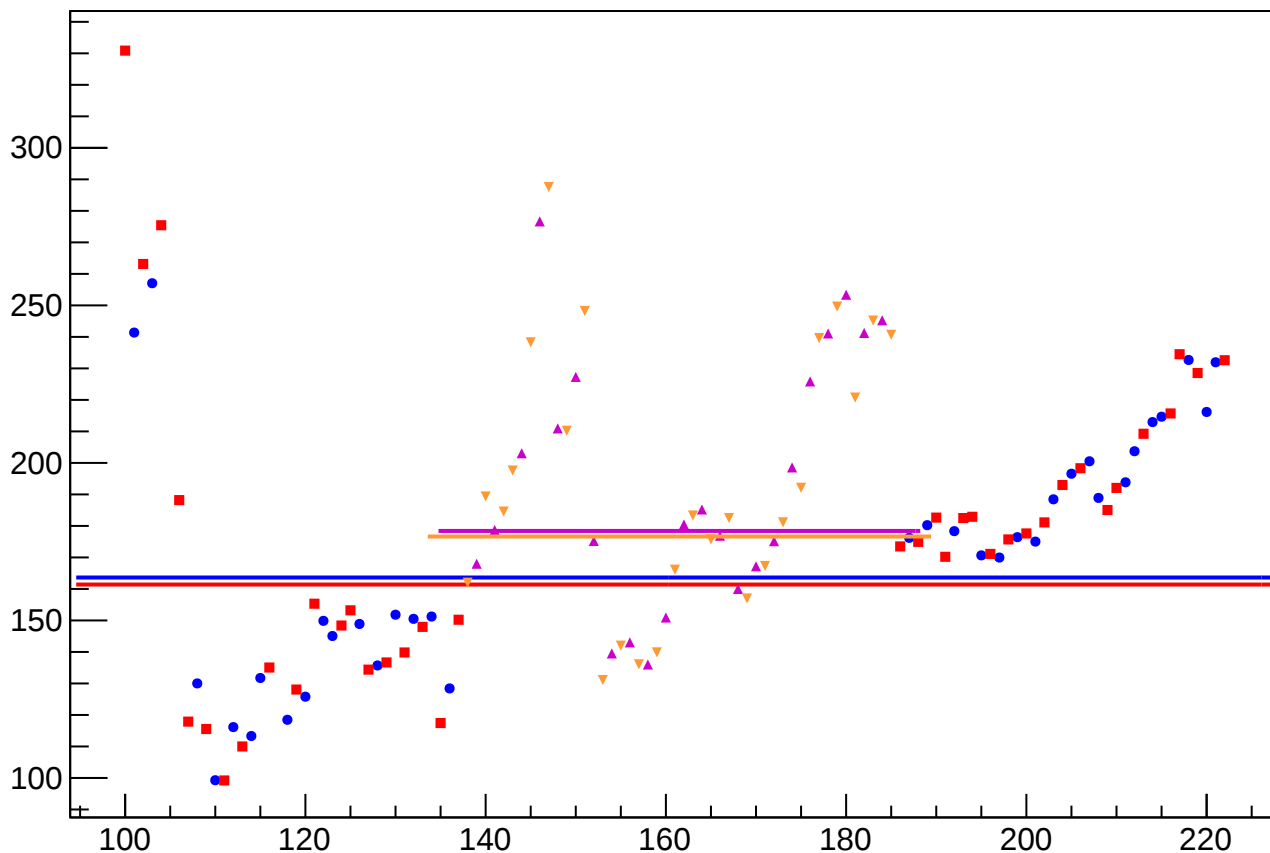
Right: 6180.014+/-26.737 χ^2/NDF : 244972.6/72

In: 203.278+/-29.058 χ^2/NDF : 184096.6/57

Out: 2408.629+/-27.956 χ^2/NDF : 230544.4/62

All: 1348.577+/-20.146 χ^2/NDF : 417632.3/12

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 163.628 $\pm$ 0.027 χ^2 /NDF: 1948010.5/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 161.398 $\pm$ 0.026 χ^2 /NDF: 2298843.7/37

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

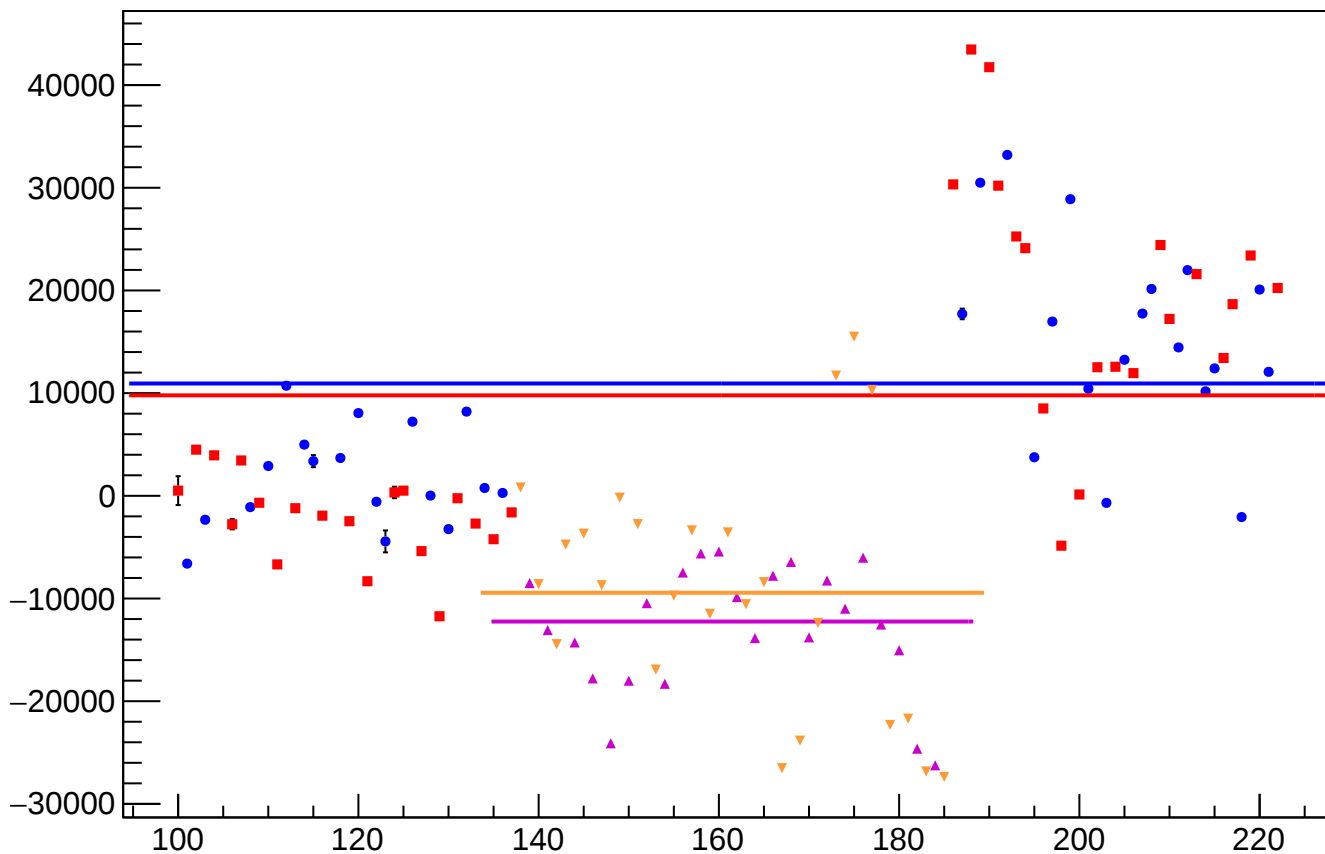
Right: 162.474 $\pm$ 0.019 χ^2 /NDF: 4250330.1/72

In: 169.989 $\pm$ 0.021 χ^2 /NDF:3368670.8/57

Out: 168.016 $\pm$ 0.020 χ^2 /NDF:3995971.5/62

All: 168.964 $\pm$ 0.014 χ^2 /NDF: 7369433.4/120

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10939.118+/-42.065

χ^2/NDF : 58975.7/34

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 9785.825+/-40.741

χ^2/NDF : 122111.8/37

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

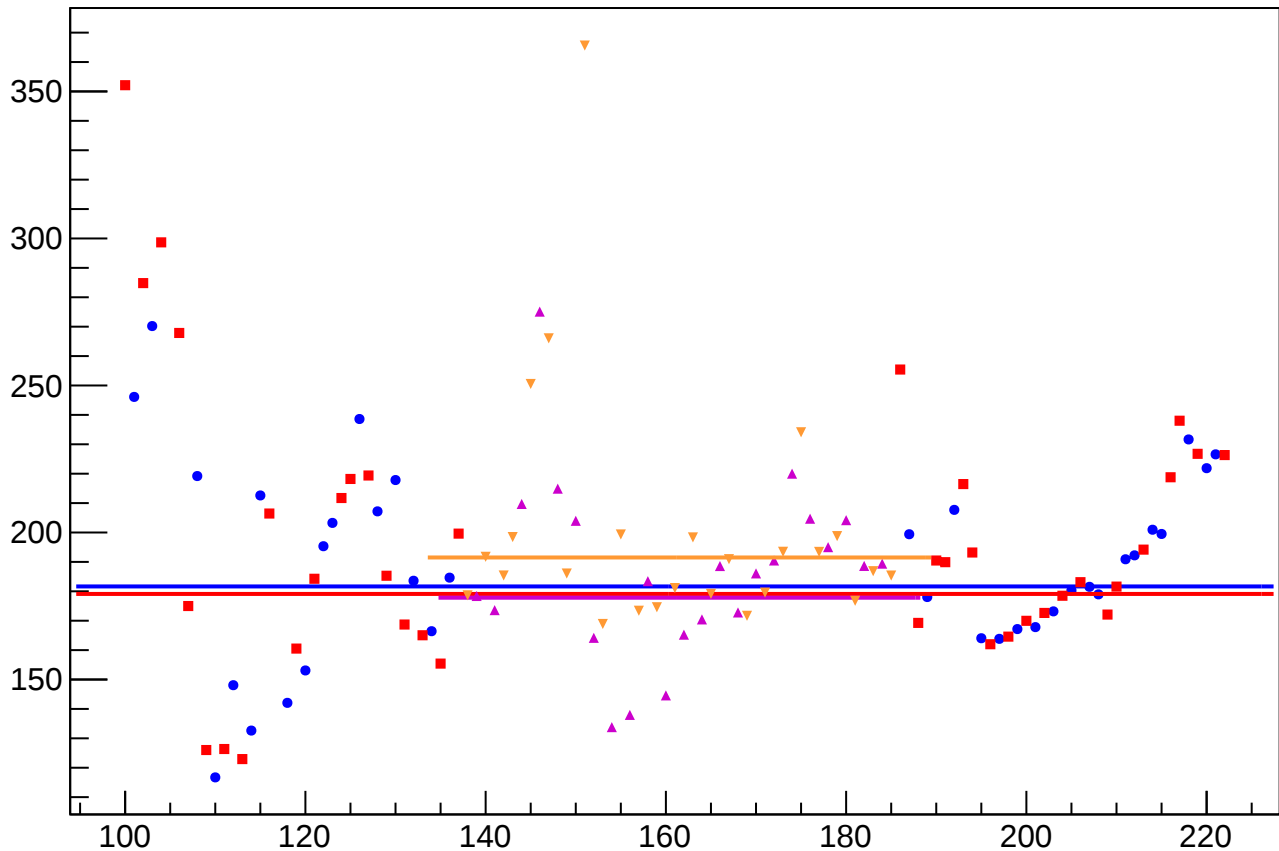
Right: 10344.042+/-29.265 χ^2/NDF : 181475.3/72

In: -145.170+/-30.387 χ^2/NDF : 220806.2/57

Out: 1238.892+/-30.362 χ^2/NDF : 283317.2/62

All: 547.431+/-21.478 χ^2/NDF : 505161.5/120

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 181.658 $\pm$ 0.030 χ^2 /NDF: 988280.1/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.105 $\pm$ 0.029 χ^2 /NDF: 1460773.2/37

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

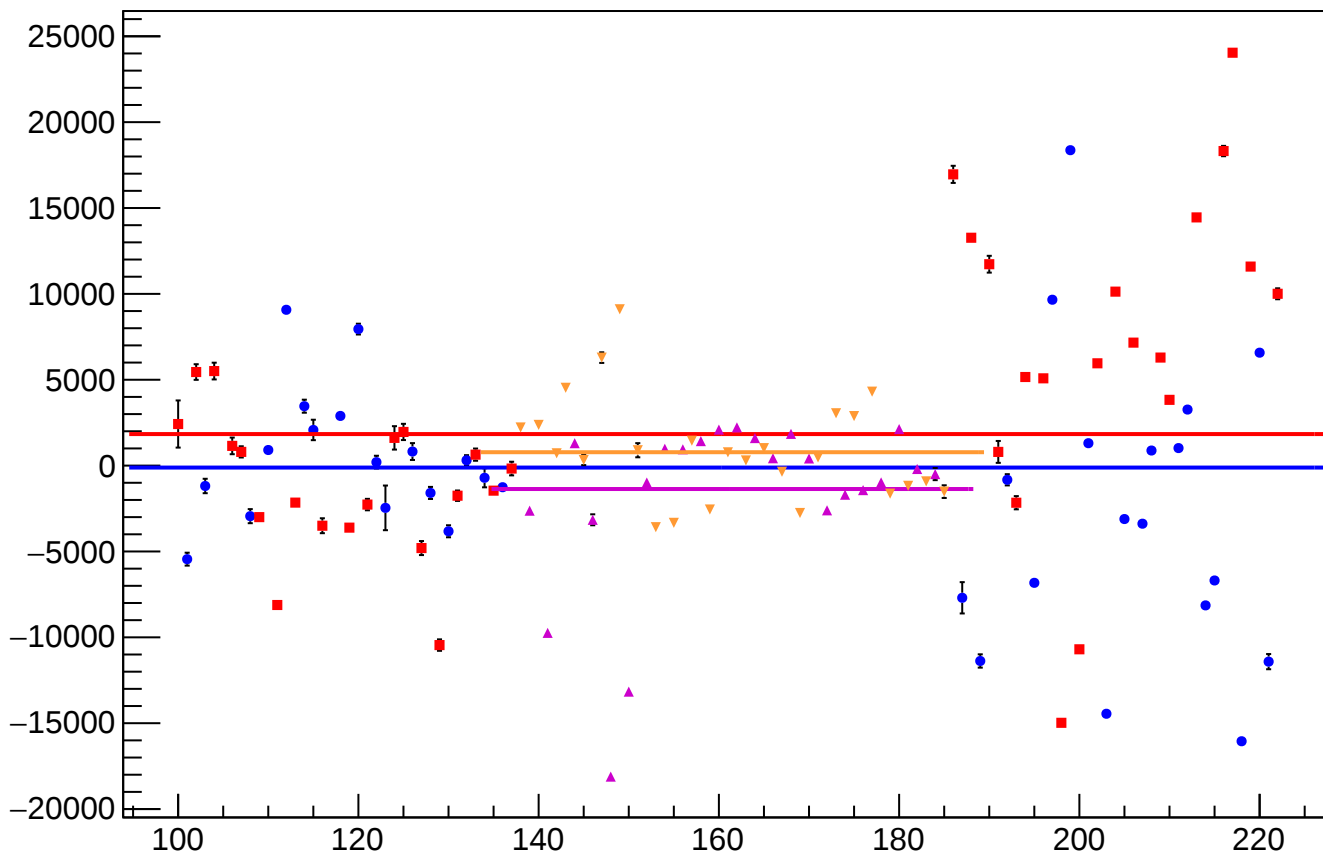
Right: 180.340 $\pm$ 0.021 χ^2 /NDF: 2452854.3/72

In: 179.823 $\pm$ 0.021 χ^2 /NDF: 1858727.4/57

Out: 184.619 $\pm$ 0.021 χ^2 /NDF: 2270427.5/62

All: 182.223 $\pm$ 0.015 χ^2 /NDF: 4154080.8/120

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -113.757 ± 47.146 $\chi^2/\text{NDF}: 26726.9/34$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 1836.360 ± 45.922 $\chi^2/\text{NDF}: 36441.2/37$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

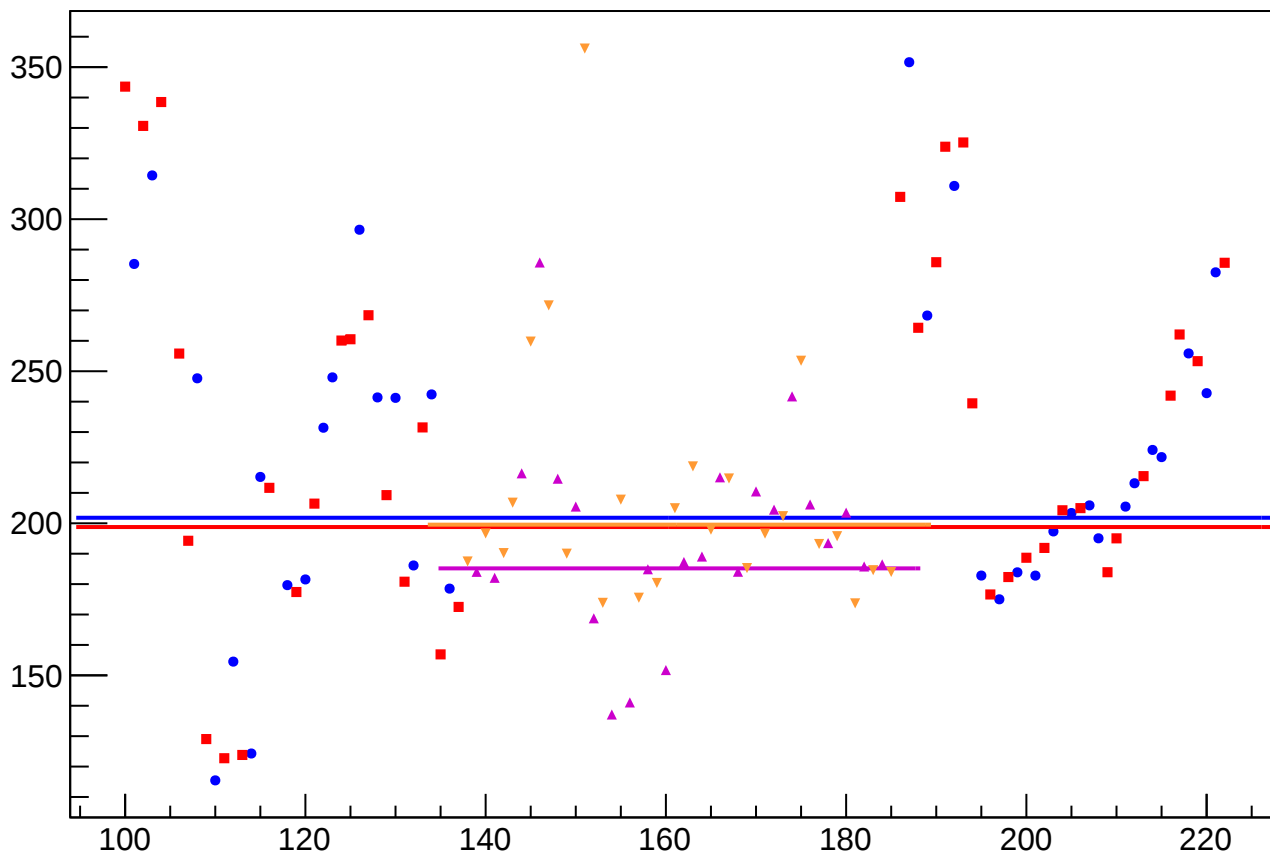
Right: 886.942 ± 32.896 $\chi^2/\text{NDF}: 64046.1/72$

In: -756.396 ± 32.853 $\chi^2/\text{NDF}: 38720.9/57$

Out: 1325.535 ± 33.001 $\chi^2/\text{NDF}: 40957.9/62$

All: 279.899 ± 23.283 $\chi^2/\text{NDF}: 81677.7/120$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 201.820 ± 0.033 $\chi^2/\text{NDF}: 1661626.0/34$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 198.766 ± 0.032 $\chi^2/\text{NDF}: 2554157.6/37$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

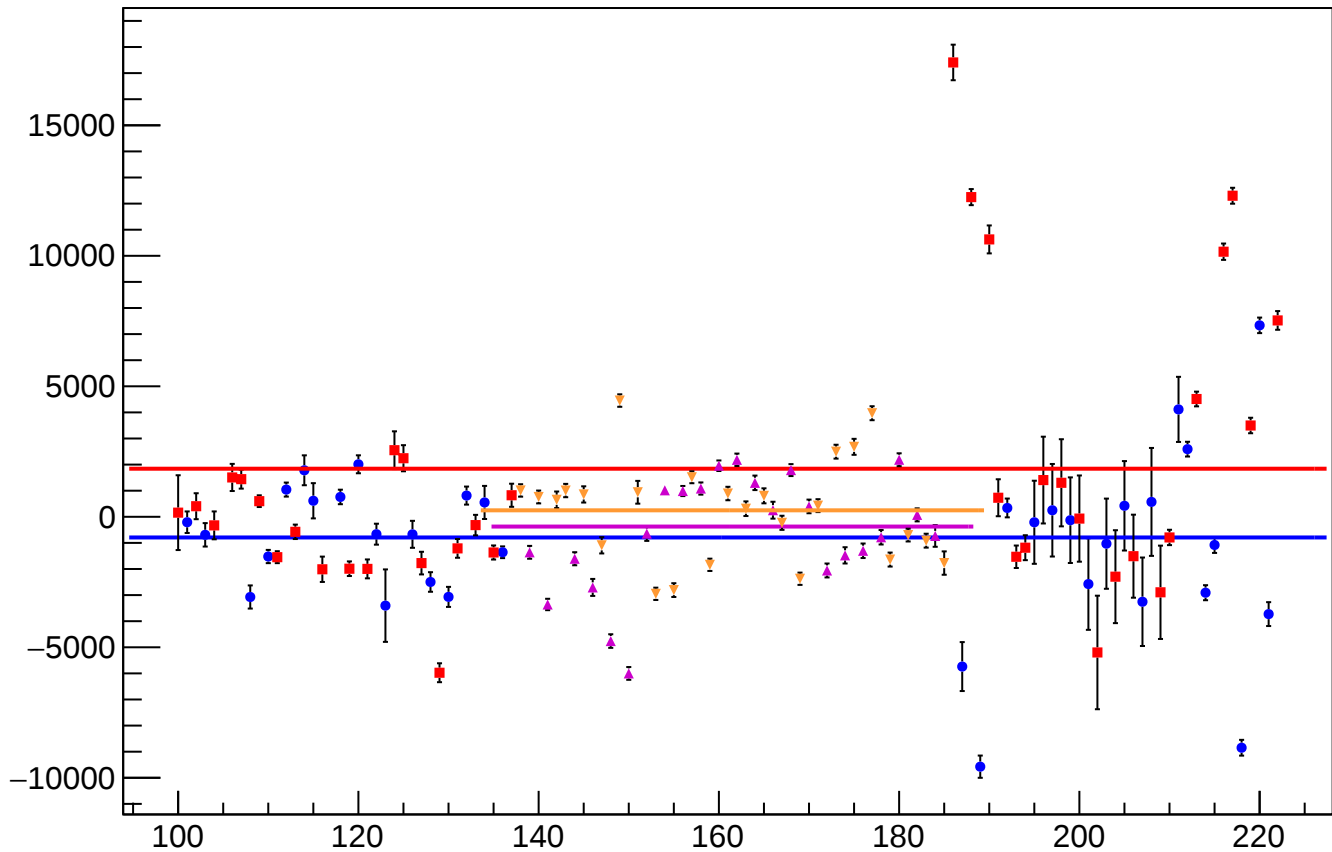
Right: 200.253 ± 0.023 $\chi^2/\text{NDF}: 4220089.2/72$

In: 193.255 ± 0.023 $\chi^2/\text{NDF}: 2672685.1/57$

Out: 199.144 ± 0.023 $\chi^2/\text{NDF}: 3283793.1/62$

All: 196.186 ± 0.016 $\chi^2/\text{NDF}: 5988457.0/120$

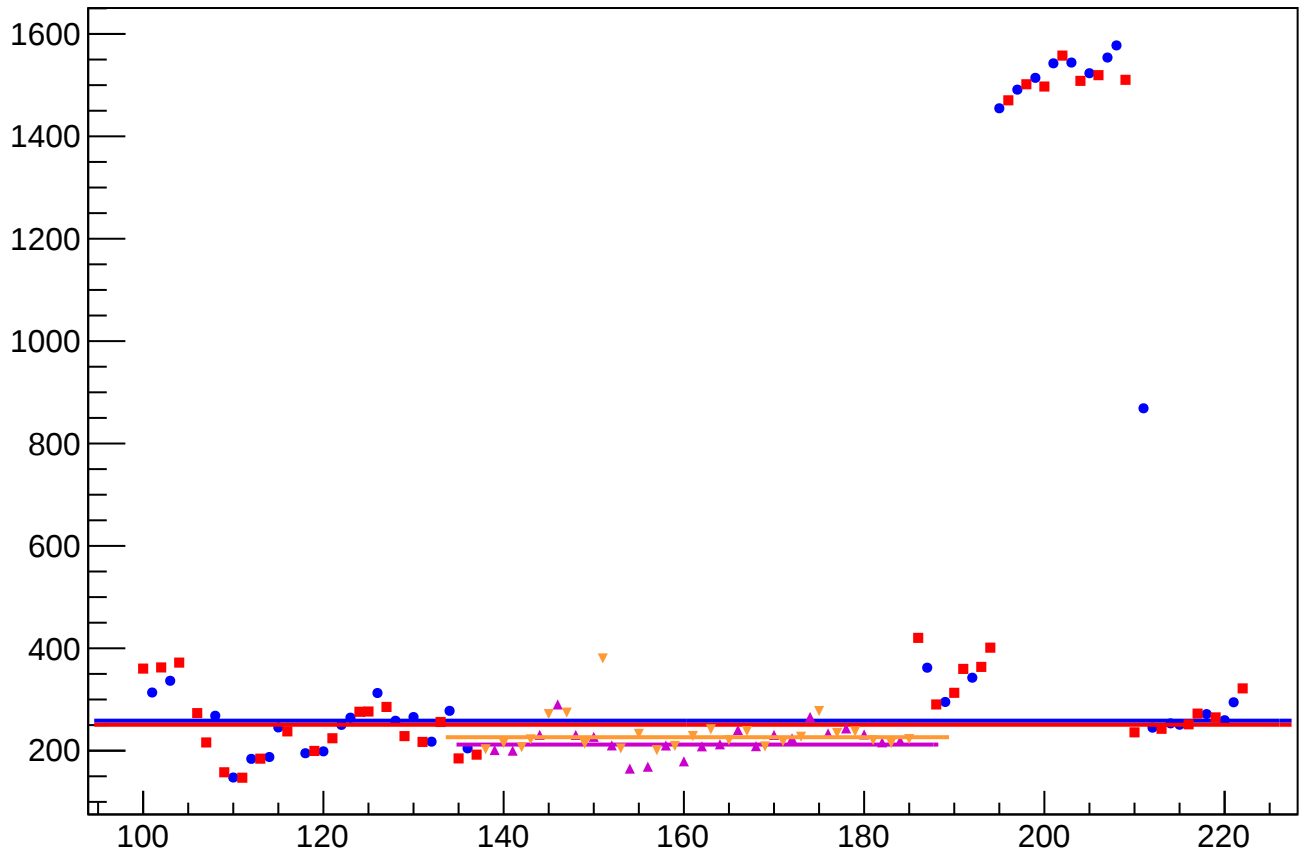
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -791.889 ± 69.530 $\chi^2/\text{NDF}: 2474.8/34$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 1842.426 ± 64.240 $\chi^2/\text{NDF}: 5900.0/37$
 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: 629.286 ± 47.184 $\chi^2/\text{NDF}: 9149.2/72$
 In: -524.154 ± 41.668 $\chi^2/\text{NDF}: 4299.0/57$
 Out: 901.673 ± 41.135 $\chi^2/\text{NDF}: 7618.6/62$
 All: 197.926 ± 29.273 $\chi^2/\text{NDF}: 12510.6/120$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.627 $\pm$ 0.049 χ^2 /NDF: 10164089.9/34

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 250.648 $\pm$ 0.045 χ^2 /NDF: 9376061.9/37

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

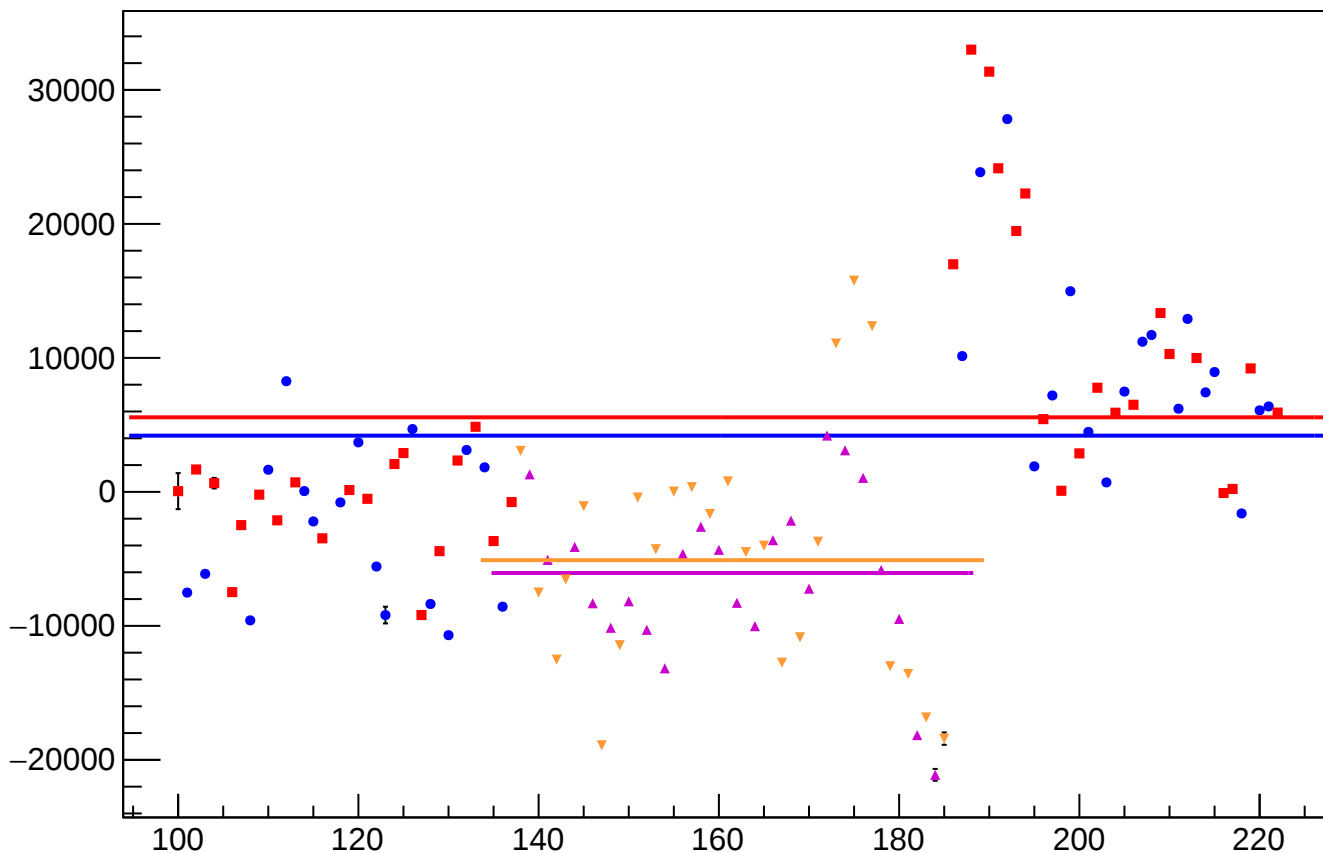
Right: 254.323 $\pm$ 0.033 χ^2 /NDF: 19554361.3/72

In: 228.726 $\pm$ 0.029 χ^2 /NDF: 11325585.4/57

Out: 236.296 $\pm$ 0.029 χ^2 /NDF: 10066303.9/62

All: 232.560 $\pm$ 0.021 χ^2 /NDF: 21425322.3/12

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4196.606+/-32.739

χ^2/NDF : 80929.2/34

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right: 4909.142+/-22.661

χ^2/NDF : 187206.5/72

Right Out: 5564.454+/-31.397

χ^2/NDF : 105368.0/37

In: -587.040+/-23.909

χ^2/NDF : 144265.7/57

Out: 611.770+/-22.973

χ^2/NDF : 213319.8/62

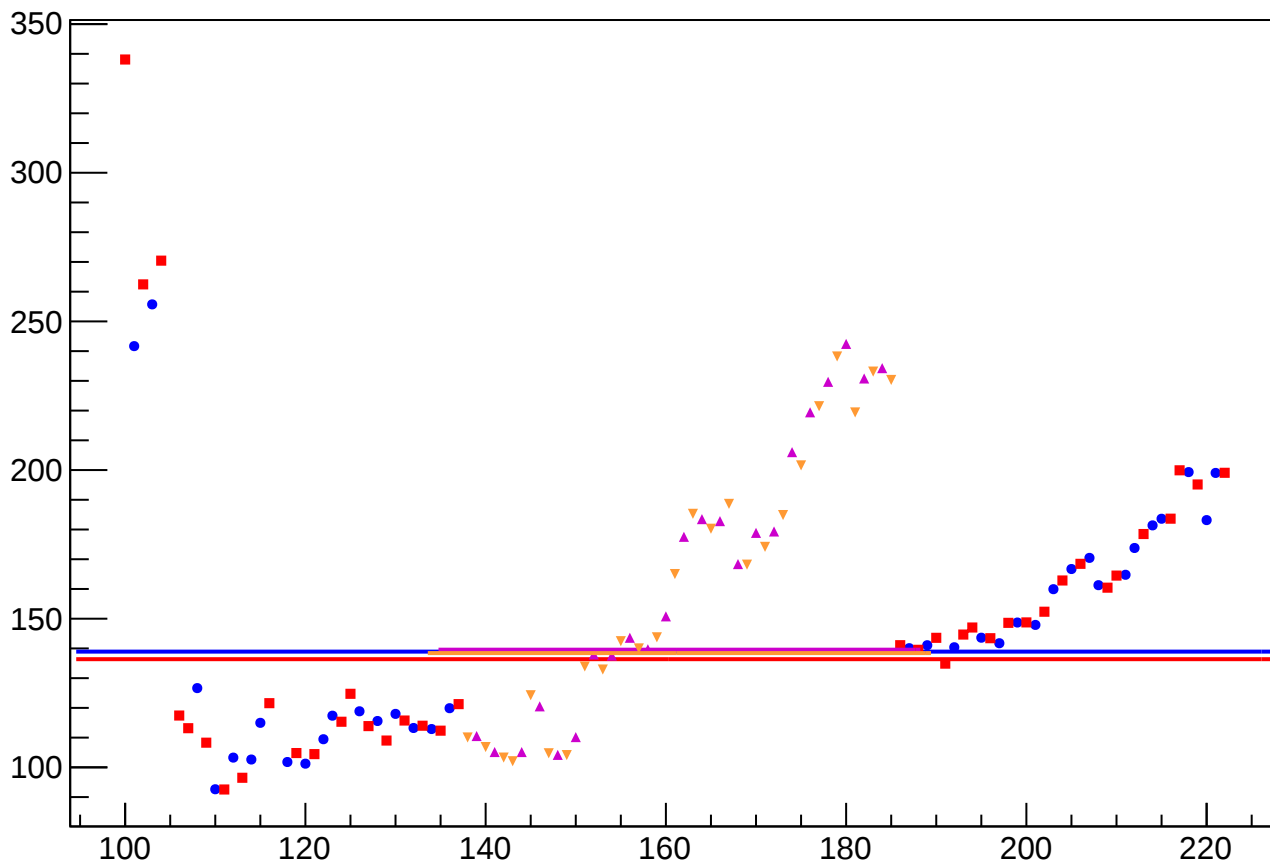
Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

All: 36.280+/-16.565

χ^2/NDF : 358892.8/120

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 138.928+/-0.023 χ^2/NDF : 1962581.1/34

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 136.382+/-0.022 χ^2/NDF : 2179345.5/37

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

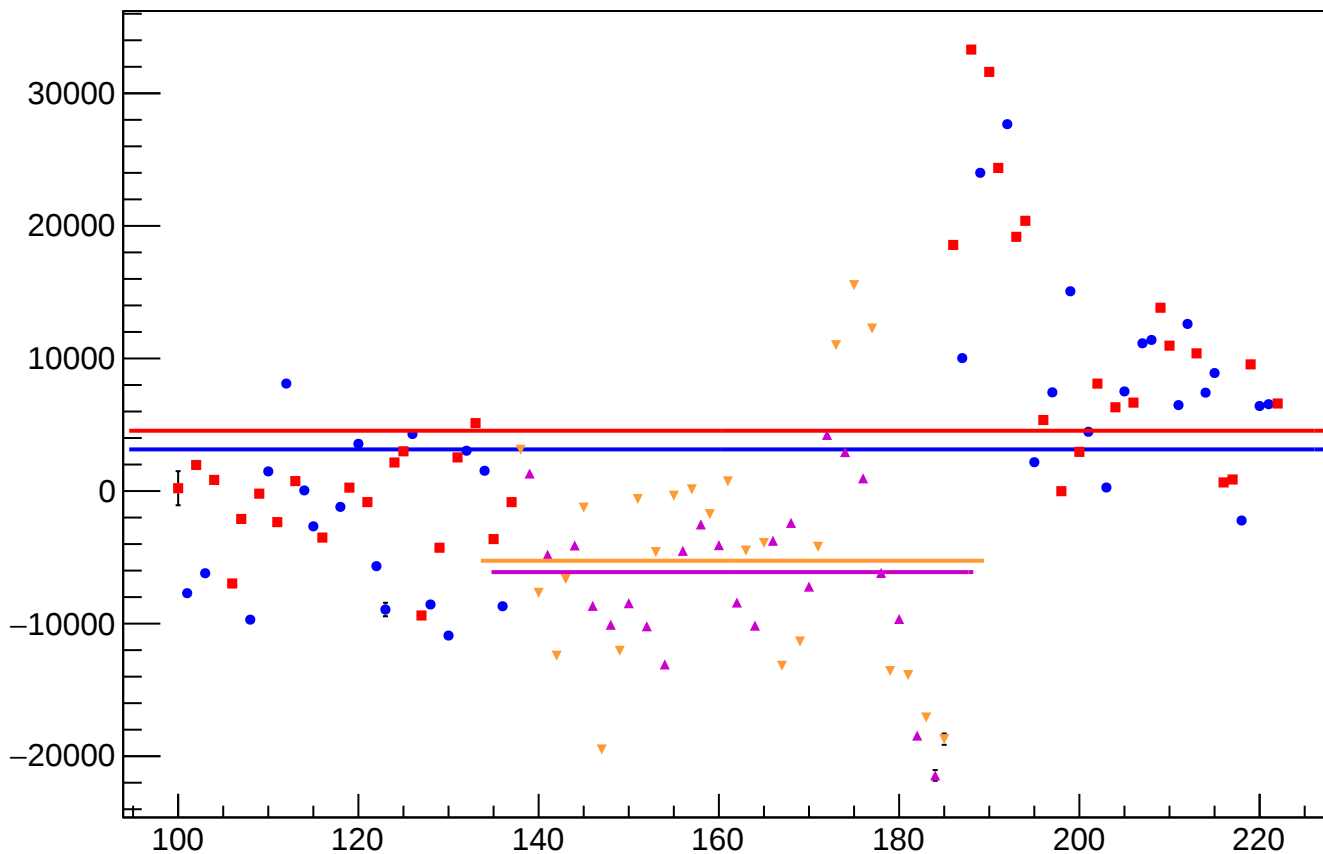
Right: 137.602+/-0.016 χ^2/NDF : 4148227.6/72

In: 139.231+/-0.017 χ^2/NDF : 4376607.2/57

Out: 137.336+/-0.016 χ^2/NDF : 4732755.9/62

All: 138.246+/-0.012 χ^2/NDF : 9115896.5/120

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3141.014 +/- 29.490

χ^2/NDF : 92106.2/34

Left: -5664.697 +/- 22.166

χ^2/NDF : 85960.3/47

Left Out: -5255.652 +/- 30.622

χ^2/NDF : 64324.6/24

Right: 3873.706 +/- 20.433

χ^2/NDF : 208392.8/72

Right Out: 4550.301 +/- 28.339

χ^2/NDF : 115099.2/37

In: -1091.731 +/- 21.725

χ^2/NDF : 158417.1/57

Out: 26.522 +/- 20.799

χ^2/NDF : 234661.7/62

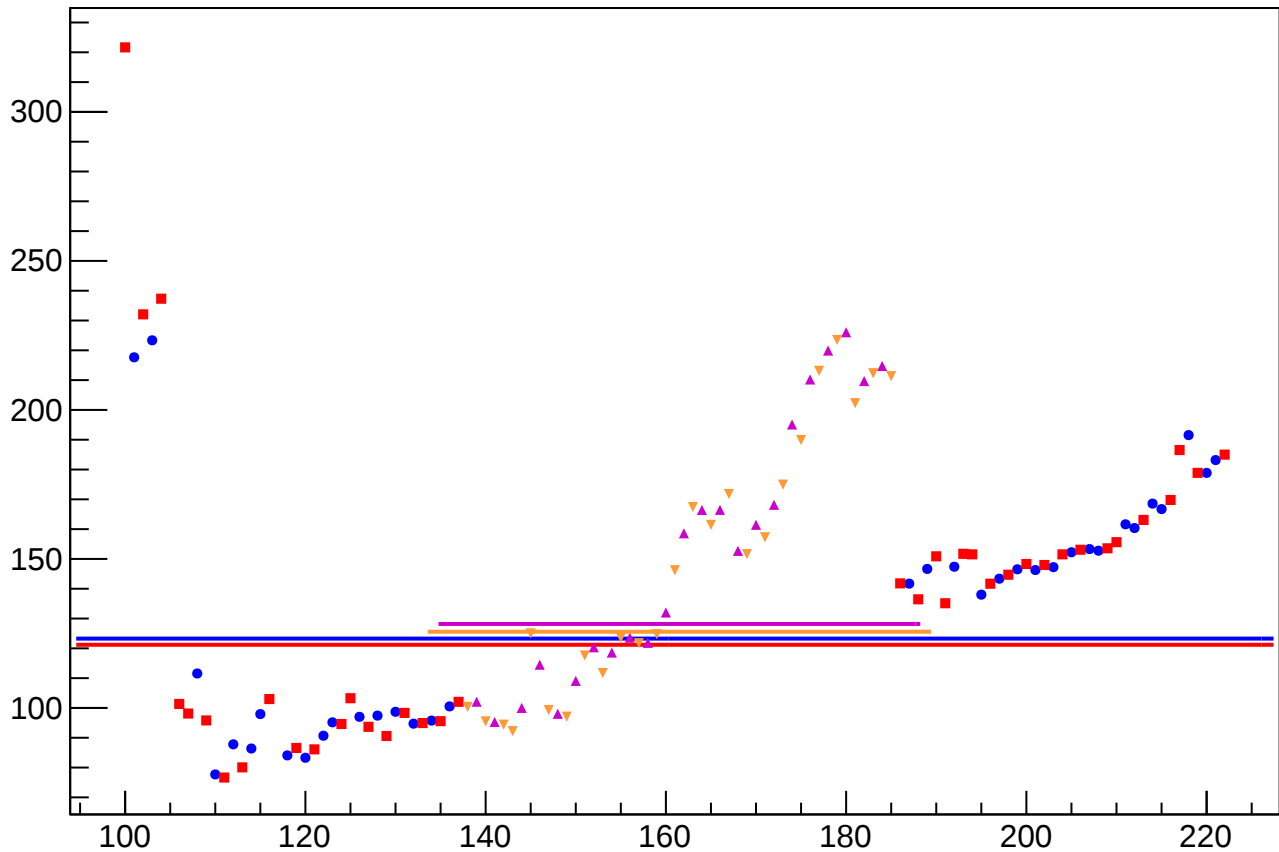
Left In: -6114.901 +/- 32.126

χ^2/NDF : 21260.9/22

All: -508.269 +/- 15.024

χ^2/NDF : 394461.2/12

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 123.269+/-0.021 χ^2/NDF : 2907360.4/34

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 121.199+/-0.020 χ^2/NDF : 3180552.1/37

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

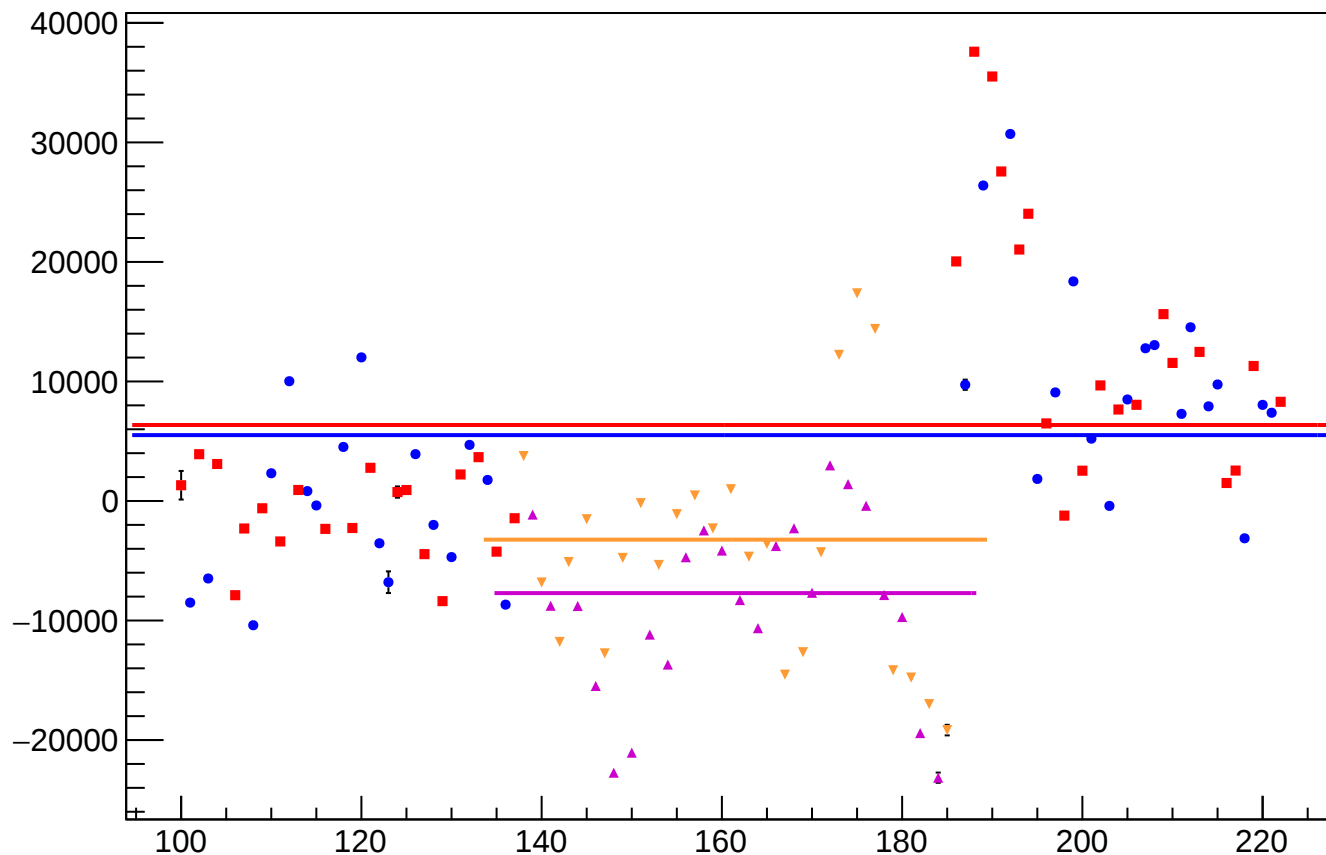
Right: 122.193+/-0.014 χ^2/NDF : 6093037.9/72

In: 125.517+/-0.015 χ^2/NDF : 5265738.3/57

Out: 123.219+/-0.015 χ^2/NDF : 5798331.0/62

All: 124.318+/-0.011 χ^2/NDF : 11075744.2/12

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5511.313+/-38.854 χ^2/NDF : 64063.9/34

Left Out: -3234.922+/-40.583 χ^2/NDF :36739.9/24

Right Out: 6357.102+/-37.258 χ^2/NDF : 94405.2/37

Left In: -7707.068+/-42.990 χ^2/NDF :21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

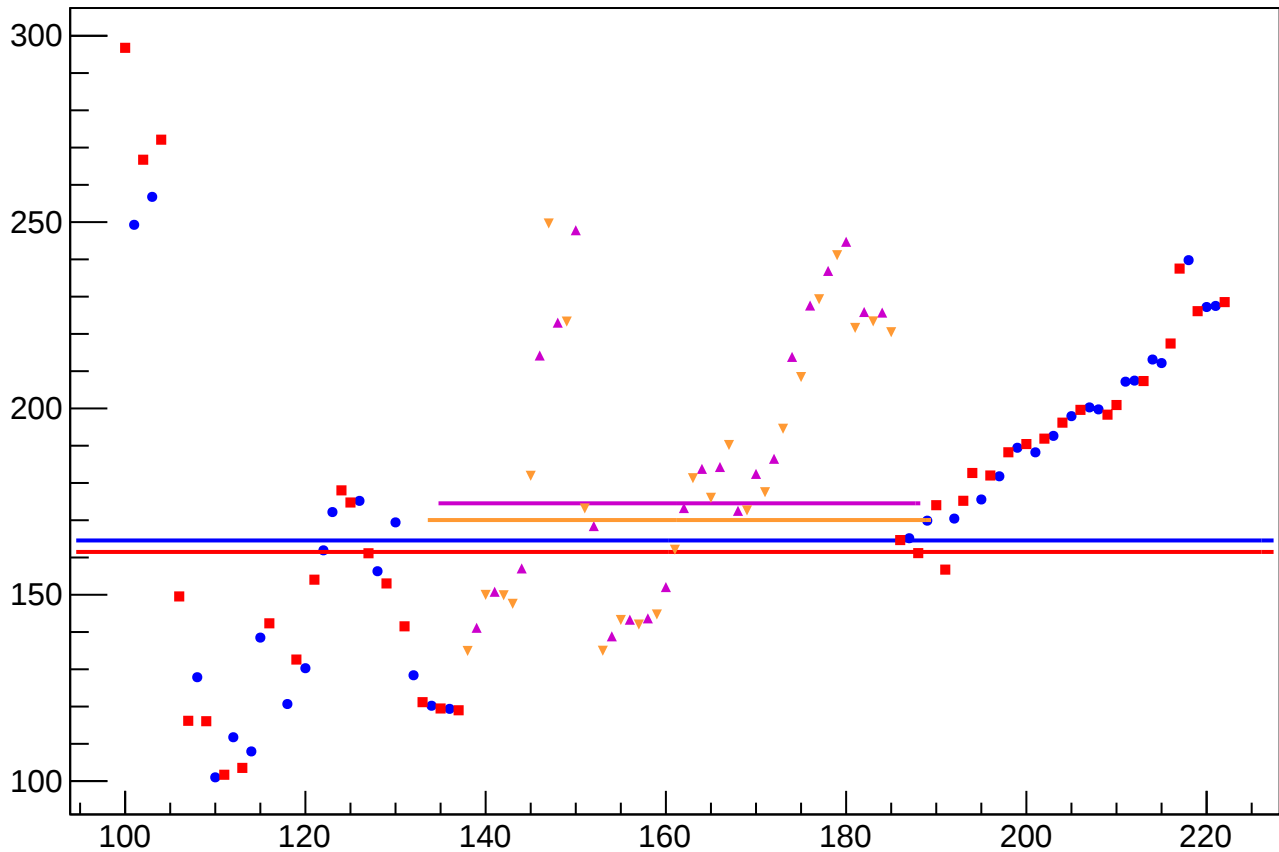
Right: 5951.930+/-26.892 χ^2/NDF : 158715.9/72

In: -431.534+/-28.825 χ^2/NDF :137369.0/57

Out: 1970.015+/-27.446 χ^2/NDF :161459.2/62

All: 828.089+/-19.877 χ^2/NDF : 302468.8/120

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 164.572 $\pm$ 0.027 χ^2/NDF : 2258885.2/34

Left Out: 170.050 $\pm$ 0.029 χ^2/NDF : 1240866.9/24

Right Out: 161.491 $\pm$ 0.026 χ^2/NDF : 2449174.2/37

Left In: 174.539 $\pm$ 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2/NDF : 2462472.2/47

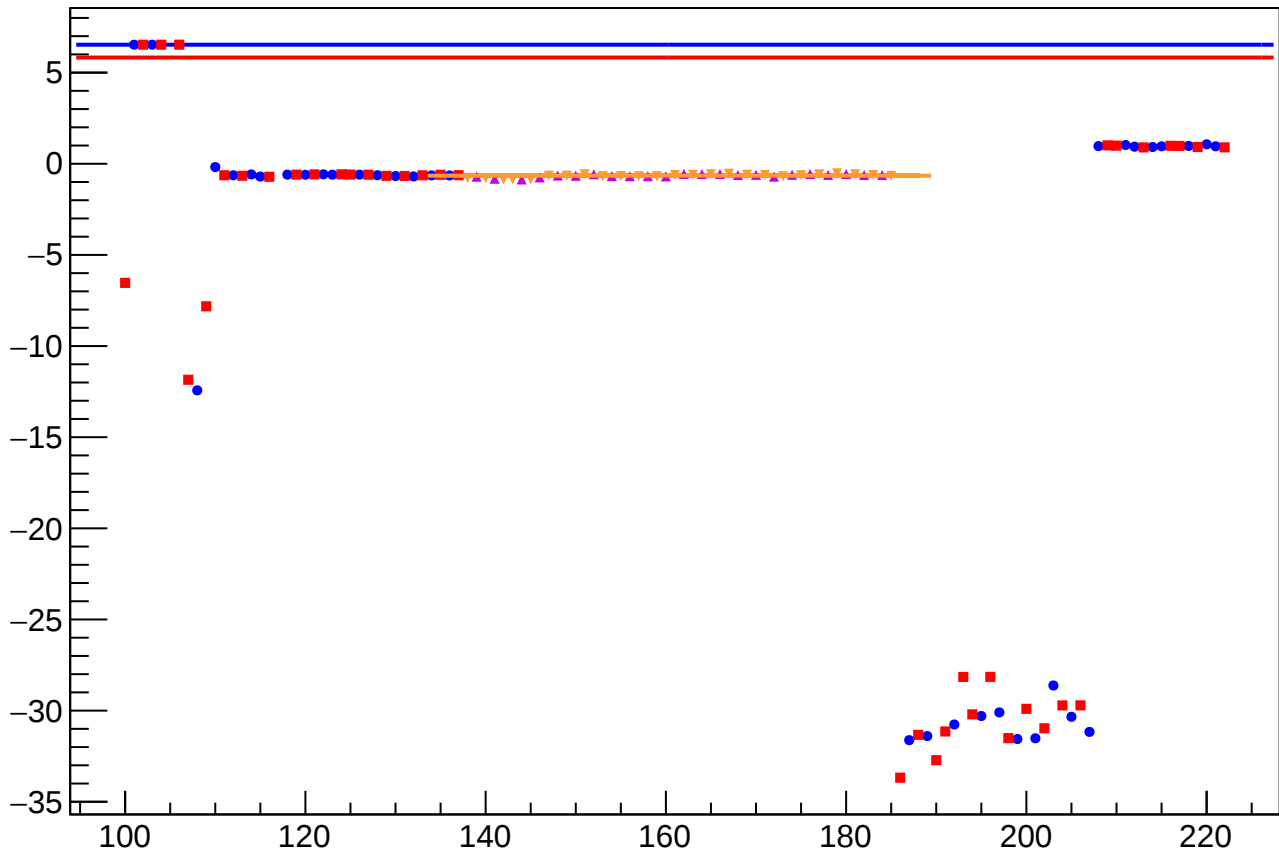
Right: 162.967 $\pm$ 0.019 χ^2/NDF : 4714612.0/72

In: 169.053 $\pm$ 0.020 χ^2/NDF : 3528129.2/57

Out: 165.405 $\pm$ 0.019 χ^2/NDF : 3738311.2/62

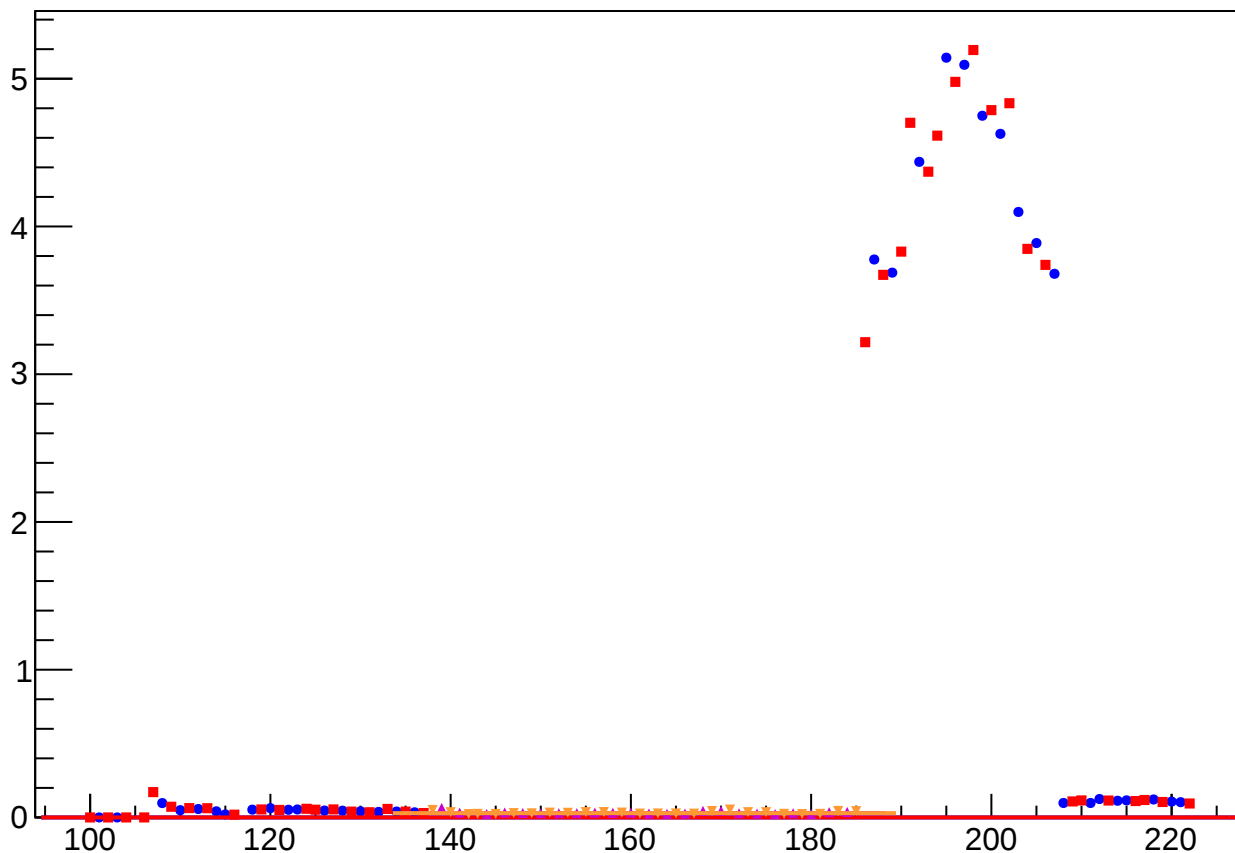
All: 167.140 $\pm$ 0.014 χ^2/NDF : 7283240.1/120

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000	χ^2/NDF : 141839562538.1/34	Left: -0.649+/-0.000	χ^2/NDF : 302910331.9/47
Left Out: -0.654+/-0.000	χ^2/NDF : 179109810.4/24	Right: 6.155+/-0.000	χ^2/NDF : 776102786377569.1
Right Out: 5.827+/-0.000	χ^2/NDF : 755958160000108.1/37	In: 6.530+/-0.000	χ^2/NDF : 967179376715.4/57
Left In: -0.644+/-0.000	χ^2/NDF : 122913584.0/22	Out: 5.826+/-0.000	χ^2/NDF : 756667183335124.8/6
		All: 6.153+/-0.000	χ^2/NDF : 77762614353338

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33714138.5/34

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35053202.1/37

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

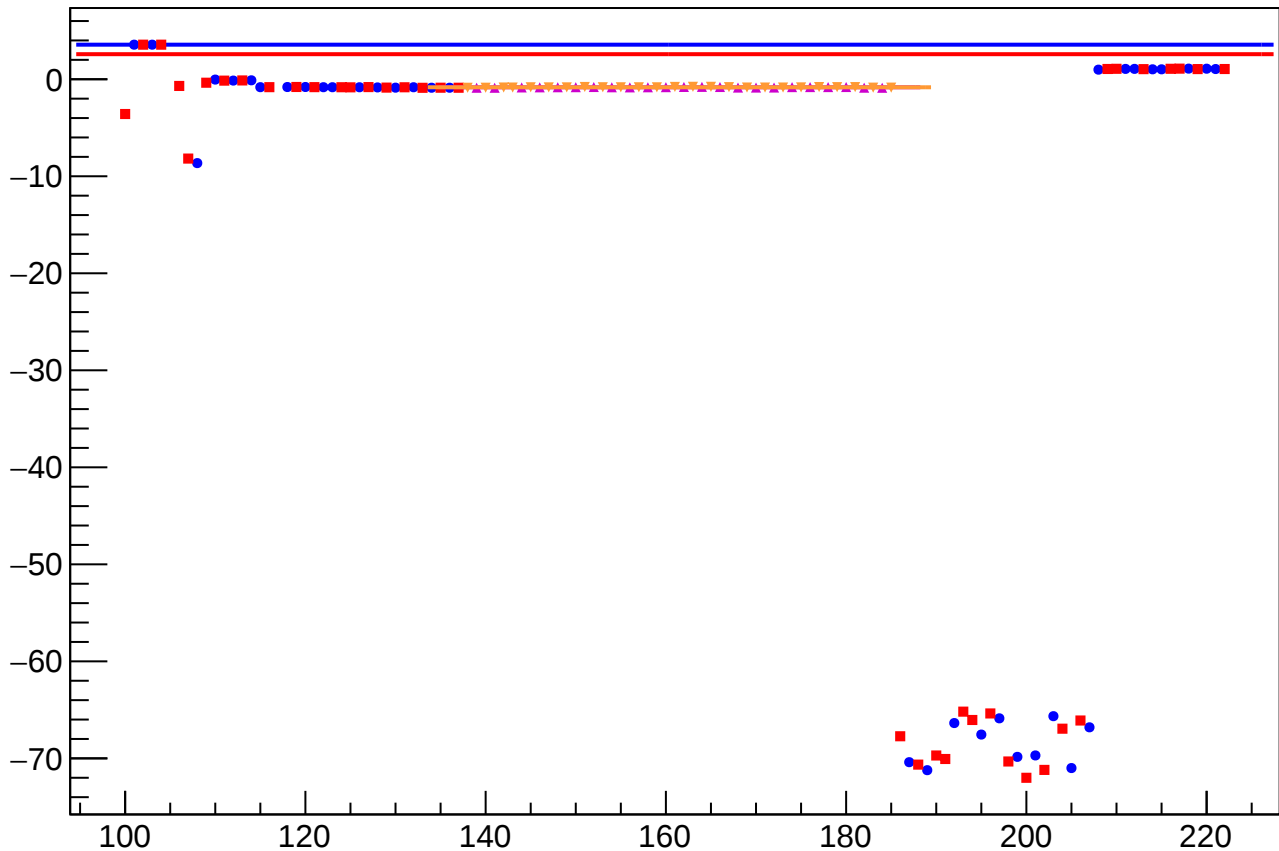
Right: 0.000+/-0.000 χ^2/NDF : 68767623.5/72

In: 0.000+/-0.000 χ^2/NDF :61674603.8/57

Out: 0.000+/-0.000 χ^2/NDF :64927812.2/62

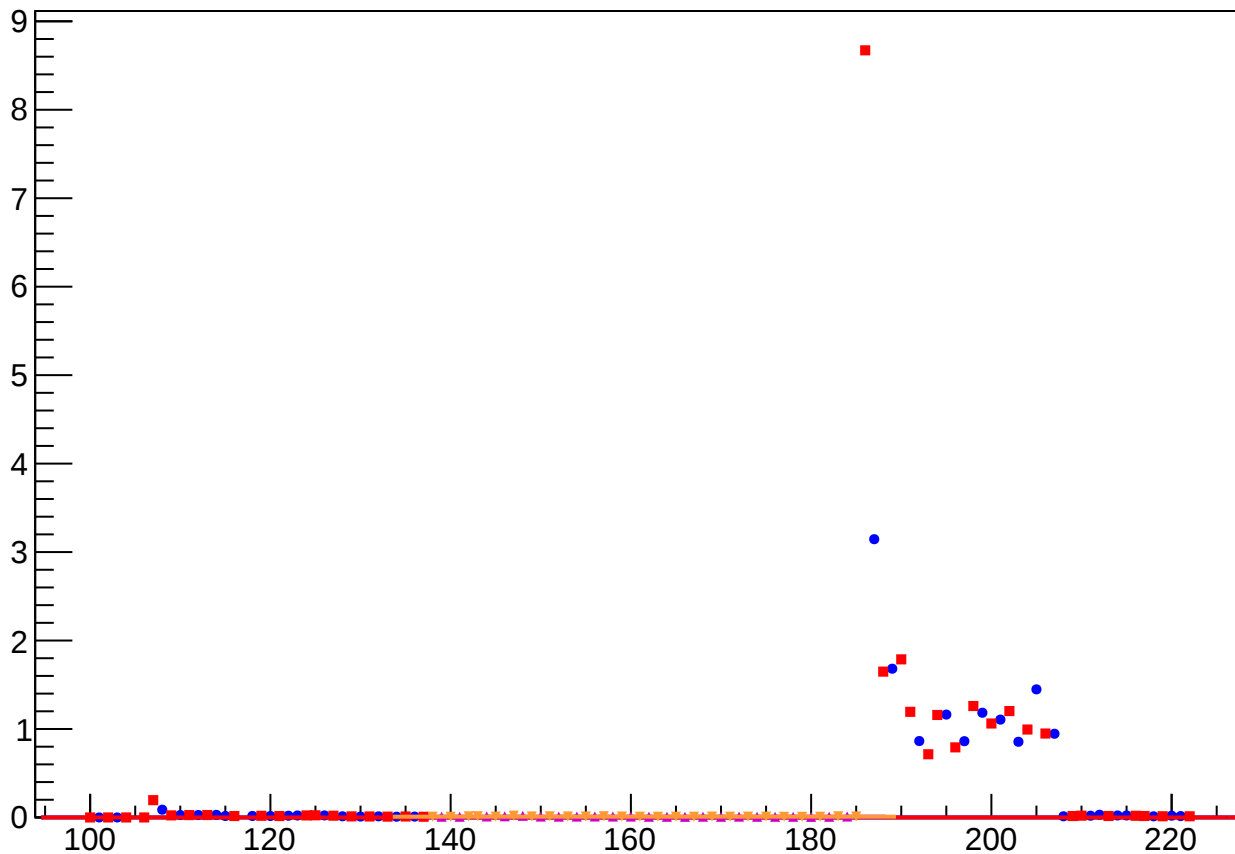
All: 0.000+/-0.000 χ^2/NDF : 126602873.7/120

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 606925458424.4/34	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382451678241104.7
Right Out: 2.583+/-0.000	χ^2/NDF : 1253578395269210.5/37	In: 3.560+/-0.000	χ^2/NDF : 4252424260847.3/57
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255800592787777.0
		All: 3.037+/-0.000	χ^2/NDF : 13881377762292.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30624459.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32540210.0/37

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

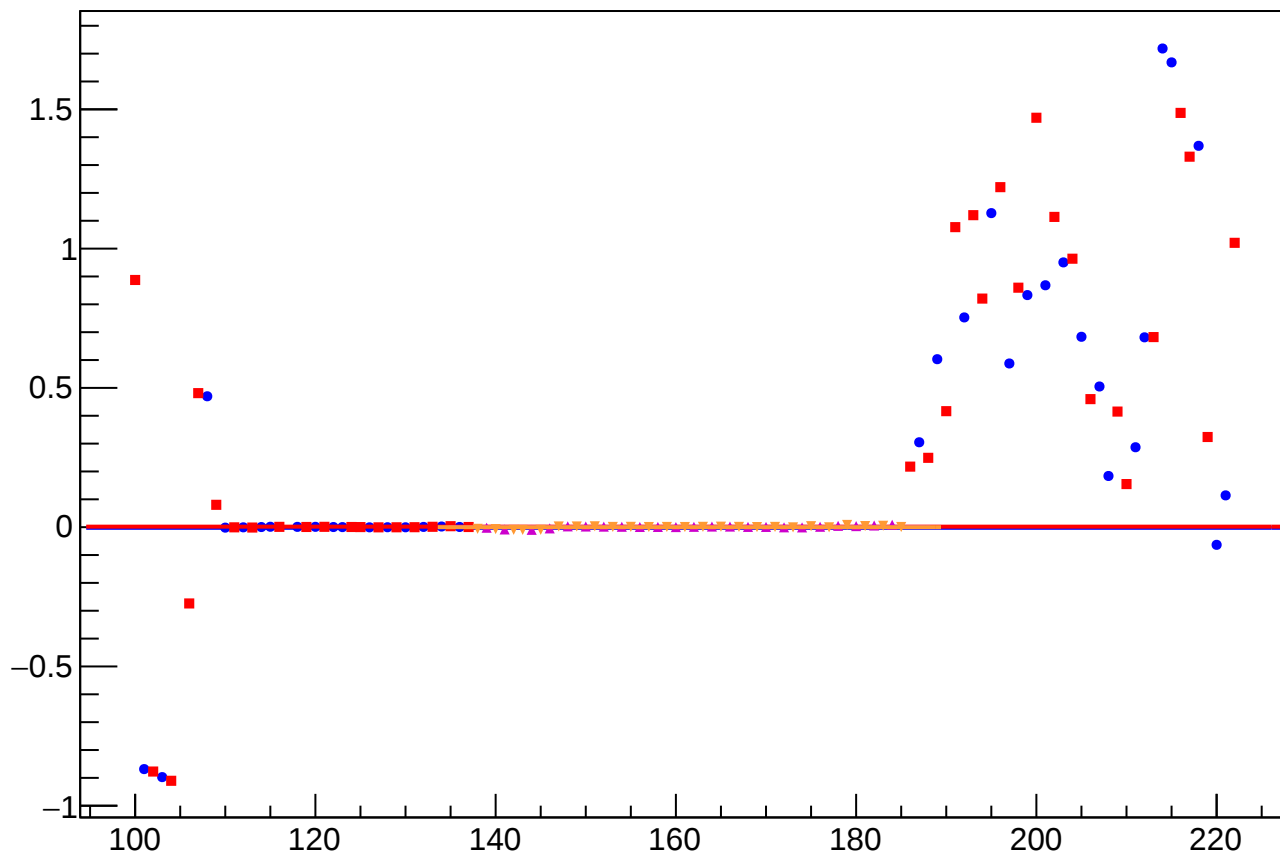
Right: 0.000+/-0.000 χ^2/NDF : 63164937.0/72

In: 0.000+/-0.000 χ^2/NDF :60153789.3/57

Out: 0.000+/-0.000 χ^2/NDF :63951724.6/62

All: 0.000+/-0.000 χ^2/NDF : 124106246.2/120

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9798025661.4/34

Left Out: -0.000 ± 0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044398252.1/37

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 : 12856193490.5/72

In: -0.000 ± 0.000

χ^2/NDF : 9910472649.4/57

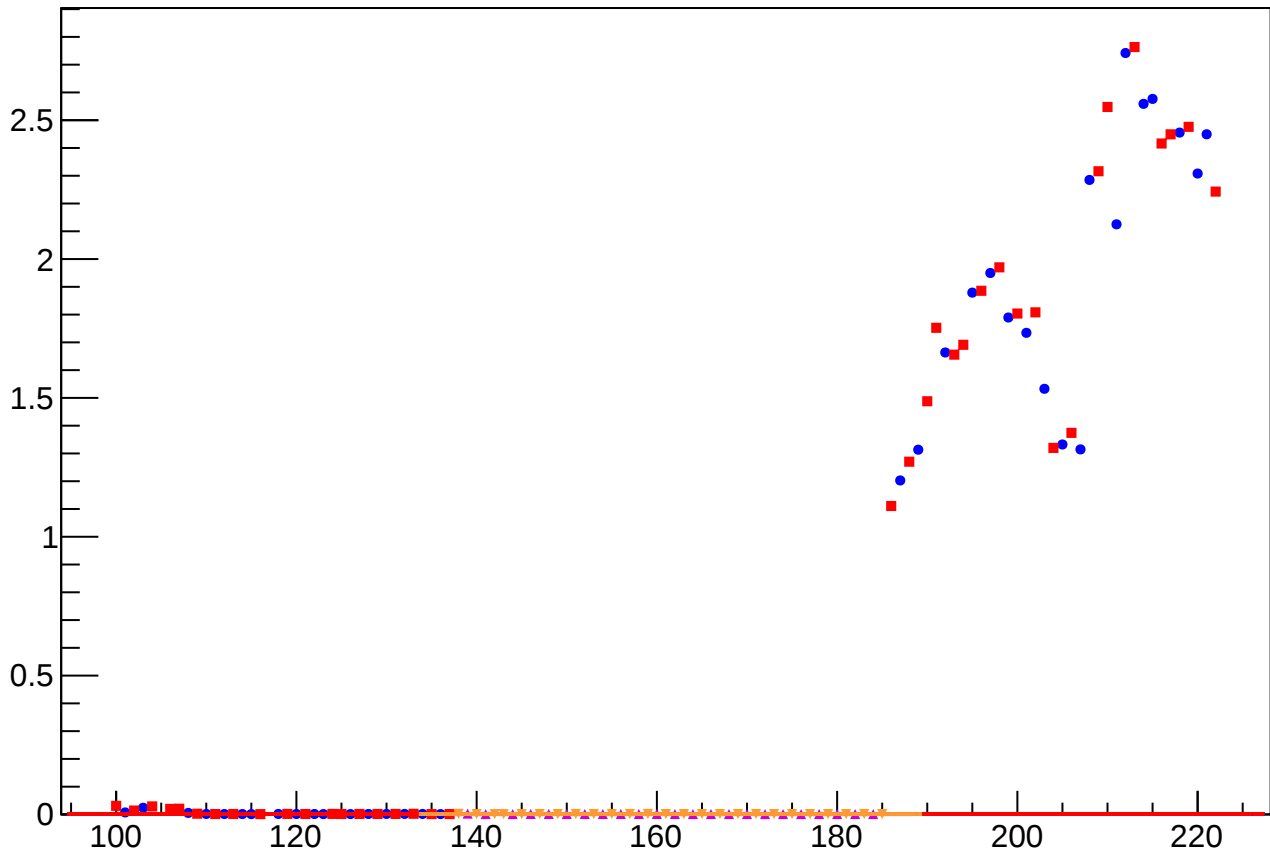
Out: 0.000 ± 0.000

χ^2/NDF : 3200617242.9/62

All: 0.000 ± 0.000

χ^2/NDF : 13111426908.9/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 26614329.5/34

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 28711754.1/37

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

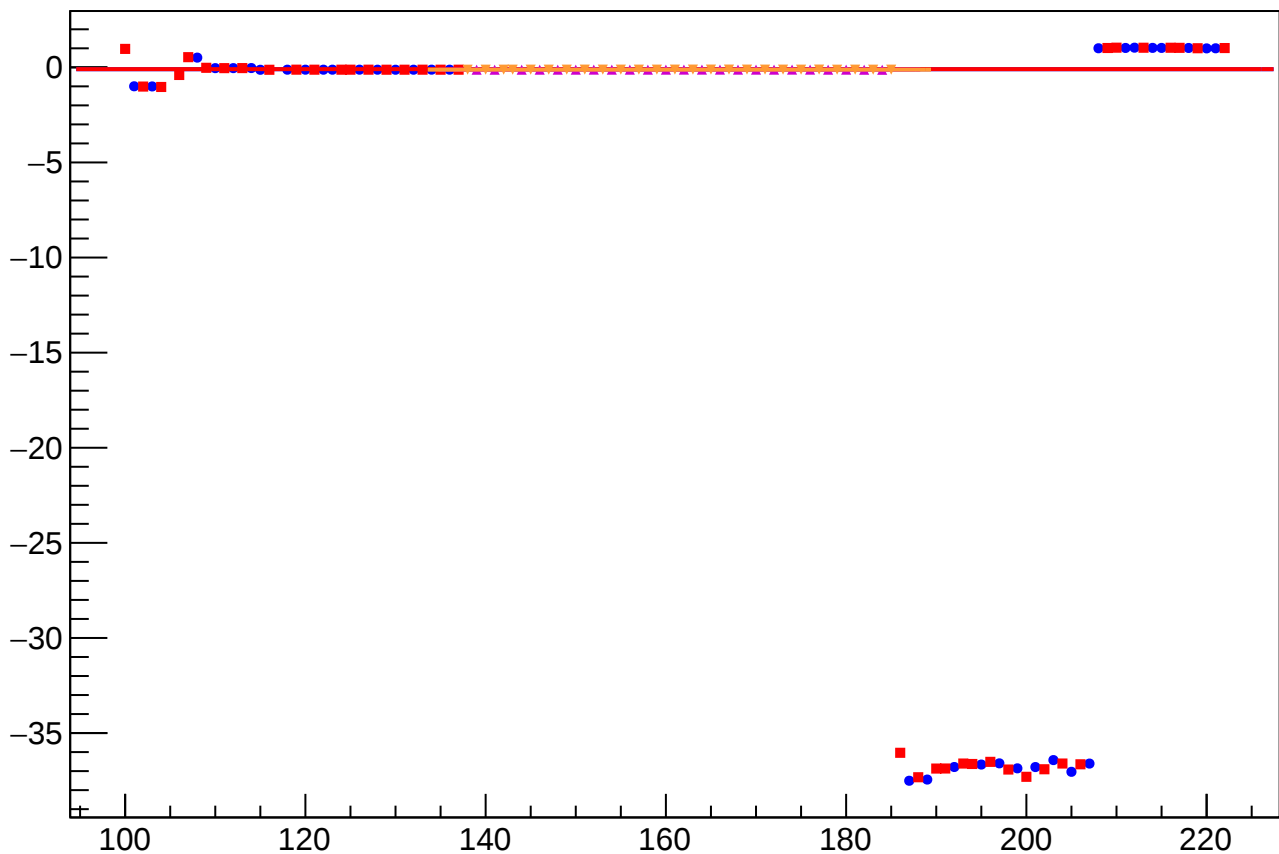
Right: 0.002+/-0.000 χ^2/NDF : 55334615.8/72

In: 0.002+/-0.000 χ^2/NDF : 27293168.9/57

Out: 0.002+/-0.000 χ^2/NDF : 29392422.8/62

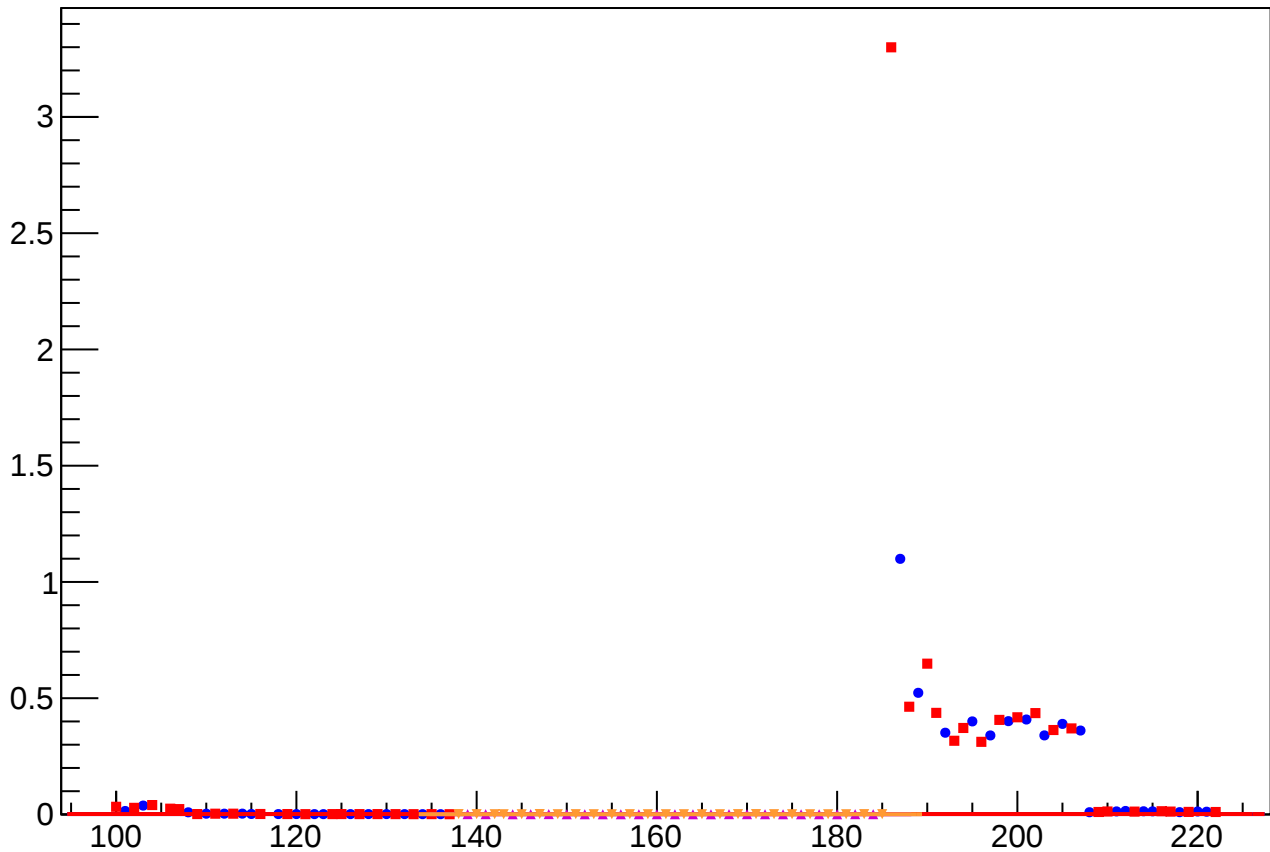
All: 0.002+/-0.000 χ^2/NDF : 56686508.9/120

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.100+/-0.000	χ^2/NDF : 111140901757.3/34	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.097+/-0.000	χ^2/NDF : 226201025019.7/72
Right Out: -0.095+/-0.000	χ^2/NDF : 115032250933.8/37	In: -0.119+/-0.000	χ^2/NDF : 111945504186.2/57
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.119+/-0.000	χ^2/NDF : 116303149845.4/62
		All: -0.119+/-0.000	χ^2/NDF : 228249185332.7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24000195.0/34

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25953587.8/37

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

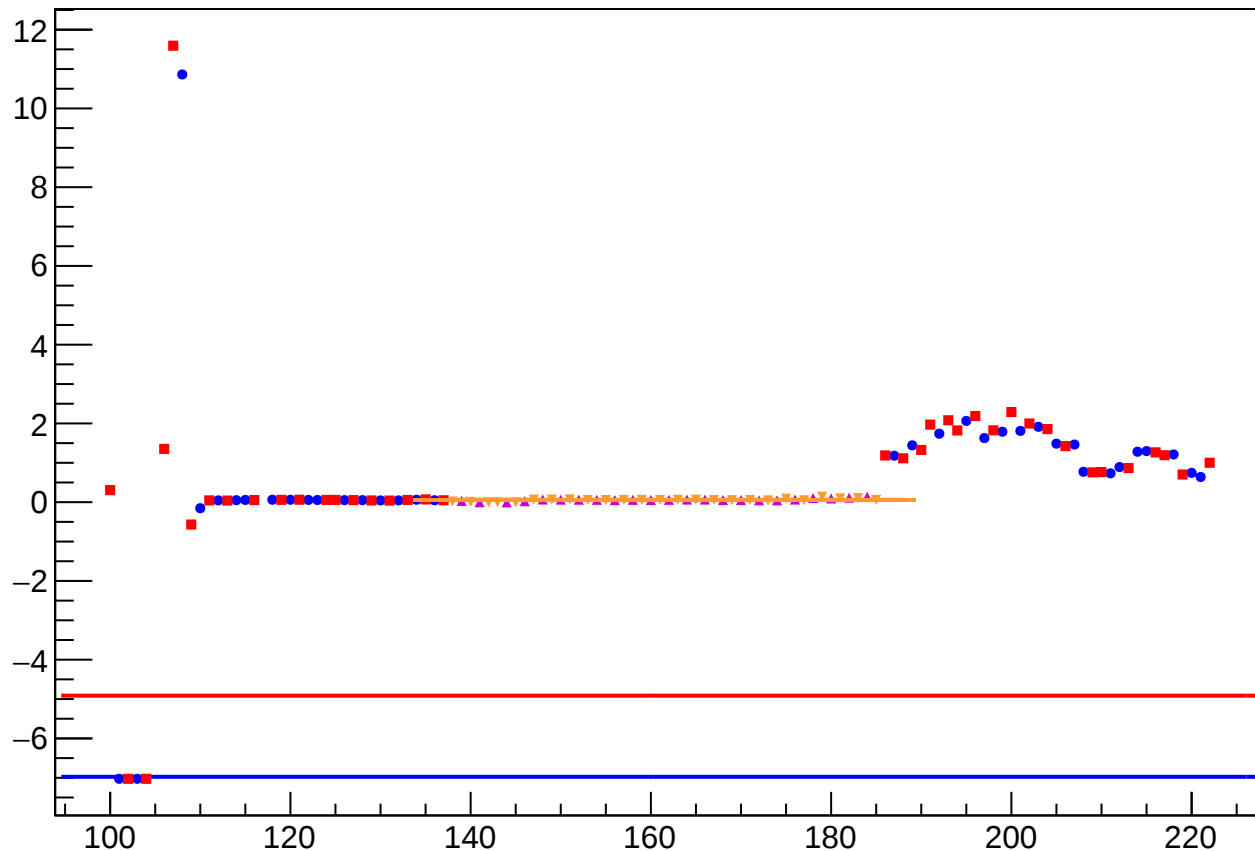
Right: 0.002+/-0.000 χ^2/NDF : 49953918.4/72

In: 0.001+/-0.000 χ^2/NDF :27081636.6/57

Out: 0.001+/-0.000 χ^2/NDF :29436475.5/62

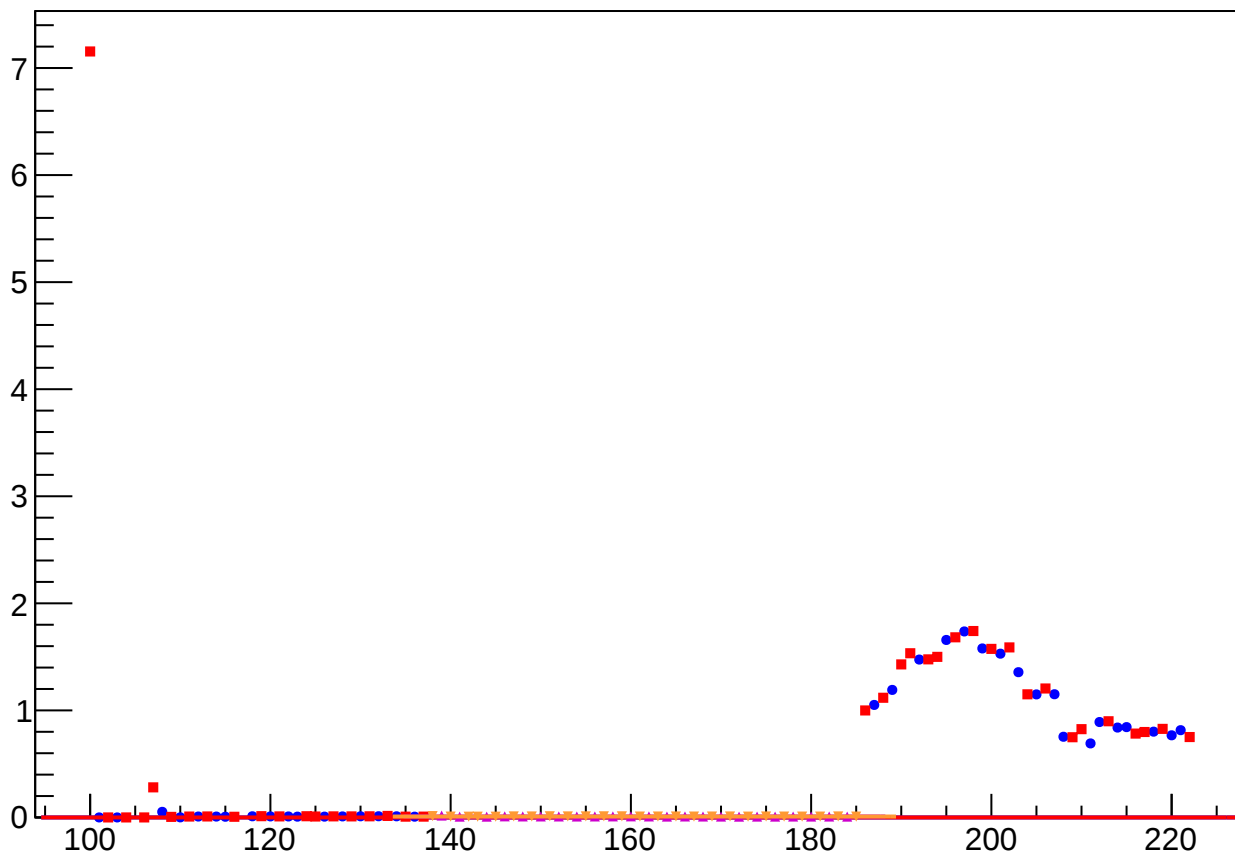
All: 0.001+/-0.000 χ^2/NDF : 56521303.1/120

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8798170340125.5/34$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430334491246983.6$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365353111039455.1/37$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553681037386.6/57$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165670616661.8/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435297713304$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33068896.2/34

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 34505378.3/37

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

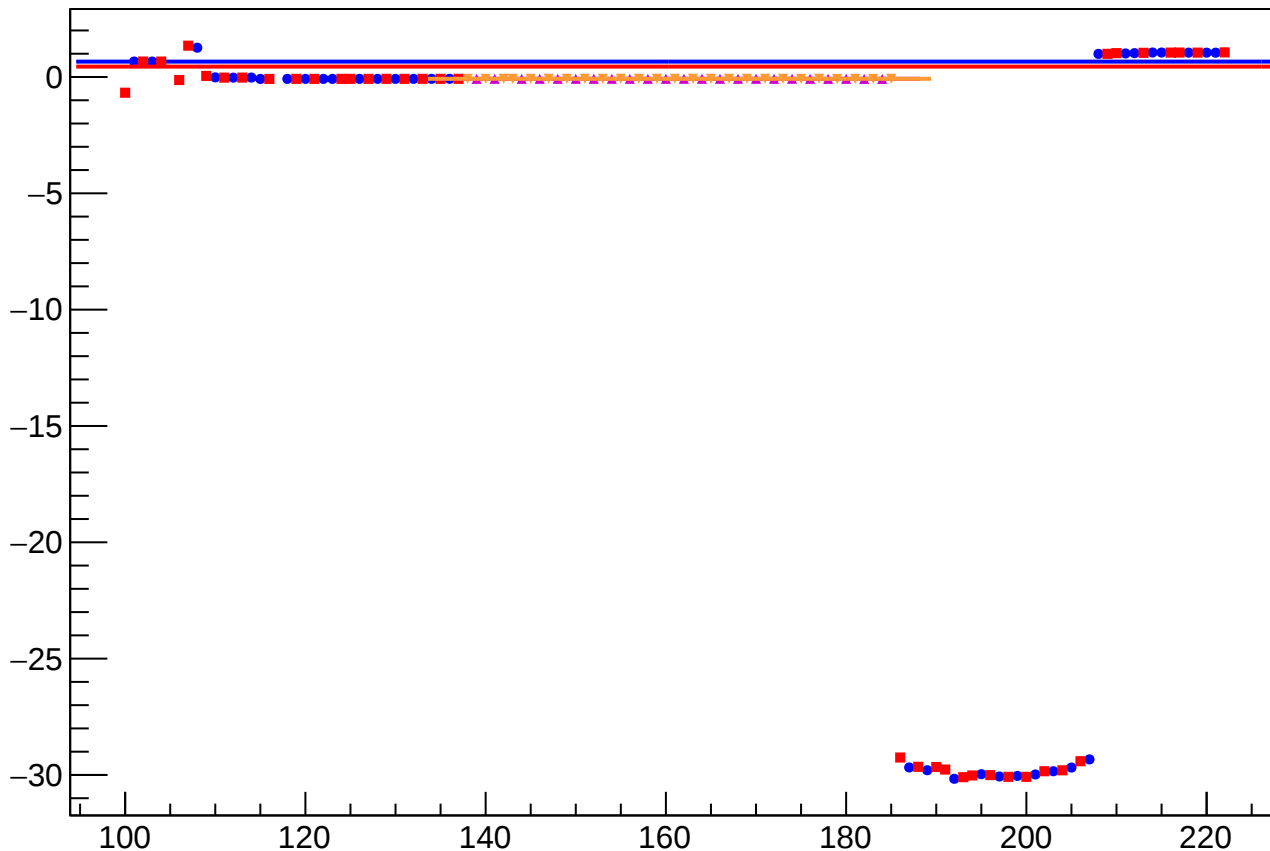
Right: 0.000+/-0.000 χ^2/NDF : 67574631.6/72

In: 0.000+/-0.000 χ^2/NDF :60485011.0/57

Out: 0.000+/-0.000 χ^2/NDF :63447802.6/62

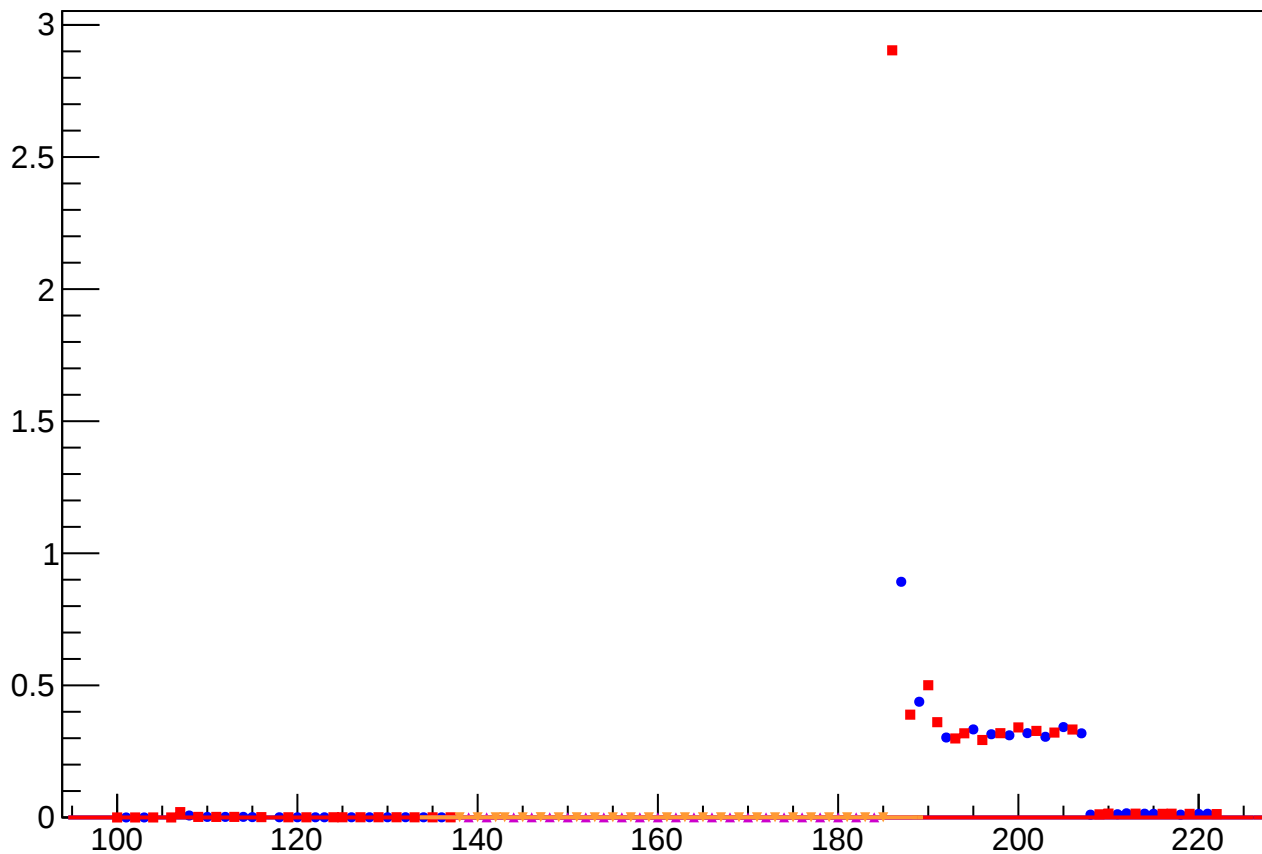
All: 0.000+/-0.000 χ^2/NDF : 123933288.9/120

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5723680797255.1/34	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 : 474137191070466.4
Right Out: 0.446+/-0.000	χ^2/NDF : 405500224804855.8/37	In: 0.647+/-0.000	χ^2/NDF : 33764714686029.5/57
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420661638816158.6/6
		All: 0.537+/-0.000	χ^2/NDF : 51598229932626

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34255281.1/34

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 34998416.5/37

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

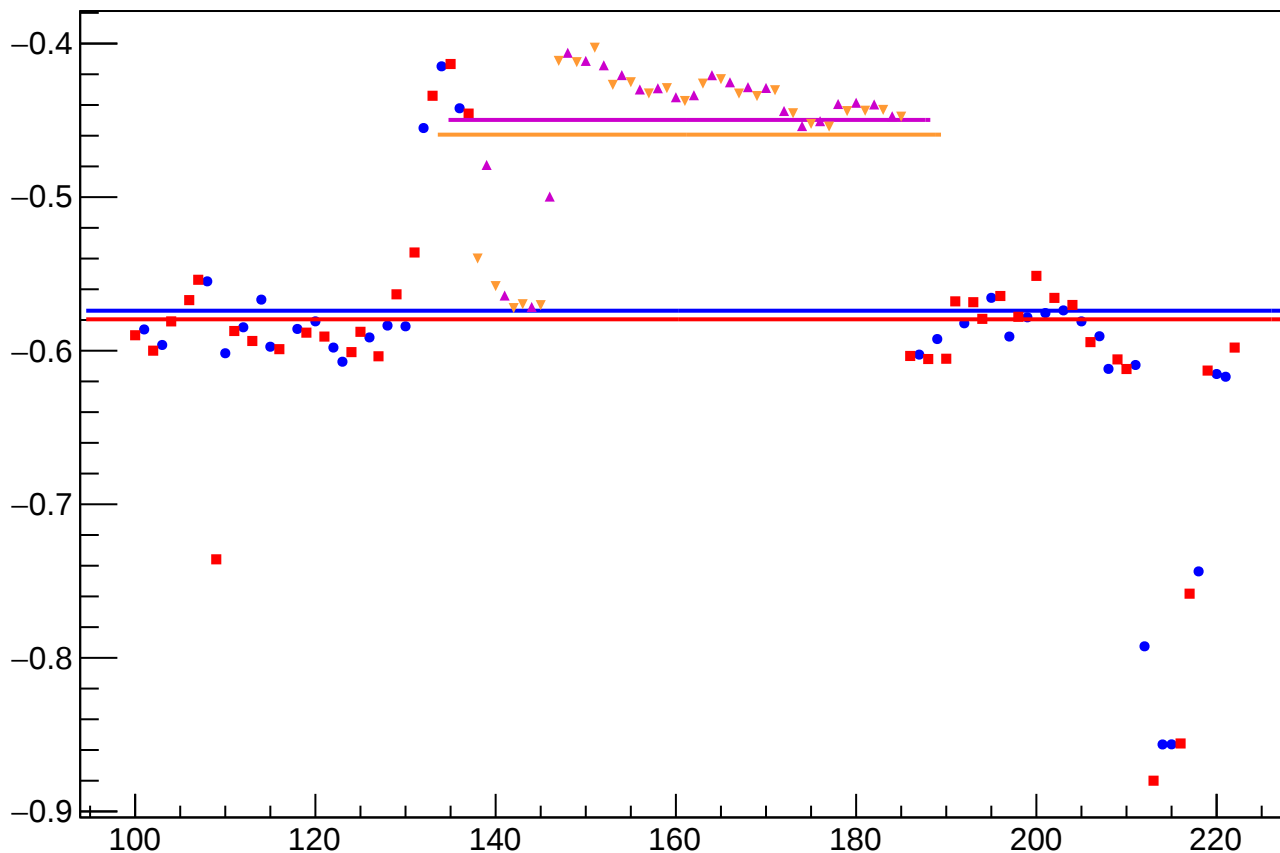
Right: 0.000+/-0.000 χ^2/NDF : 69253725.9/72

In: 0.000+/-0.000 χ^2/NDF :64969975.4/57

Out: 0.000+/-0.000 χ^2/NDF :67603882.6/62

All: 0.000+/-0.000 χ^2/NDF : 132574245.0/120

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574 $\pm$ 0.000 χ^2/NDF : 115327825.4/34

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.580 $\pm$ 0.000 χ^2/NDF : 120241426.1/37

Left In: -0.450 $\pm$ 0.000 χ^2/NDF : 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2/NDF : 191493218.8/47

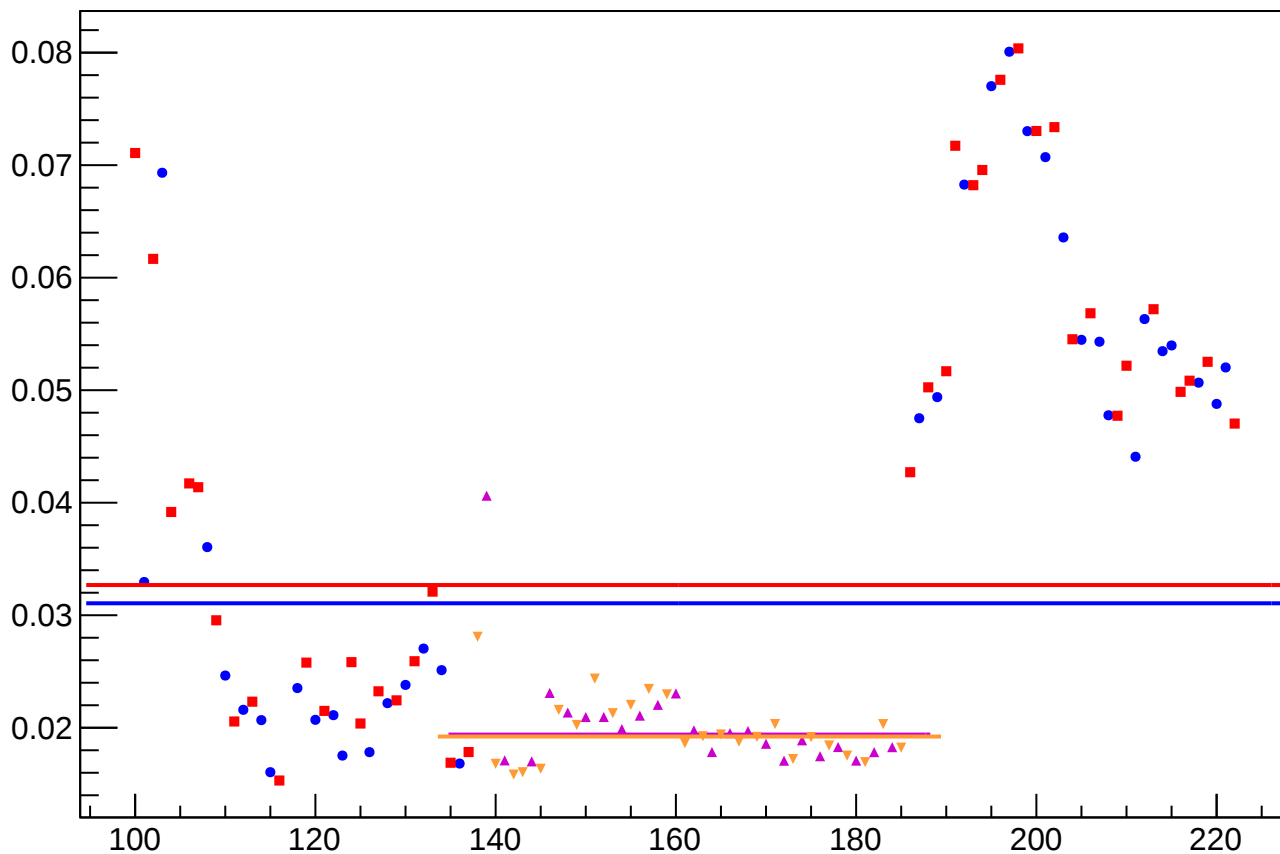
Right: -0.577 $\pm$ 0.000 χ^2/NDF : 235791163.9/72

In: -0.484 $\pm$ 0.000 χ^2/NDF : 351409155.9/57

Out: -0.490 $\pm$ 0.000 χ^2/NDF : 382607116.7/62

All: -0.487 $\pm$ 0.000 χ^2/NDF : 734864542.3/12

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8135571.0/34

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.033+/-0.000 χ^2/NDF : 7972783.6/37

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

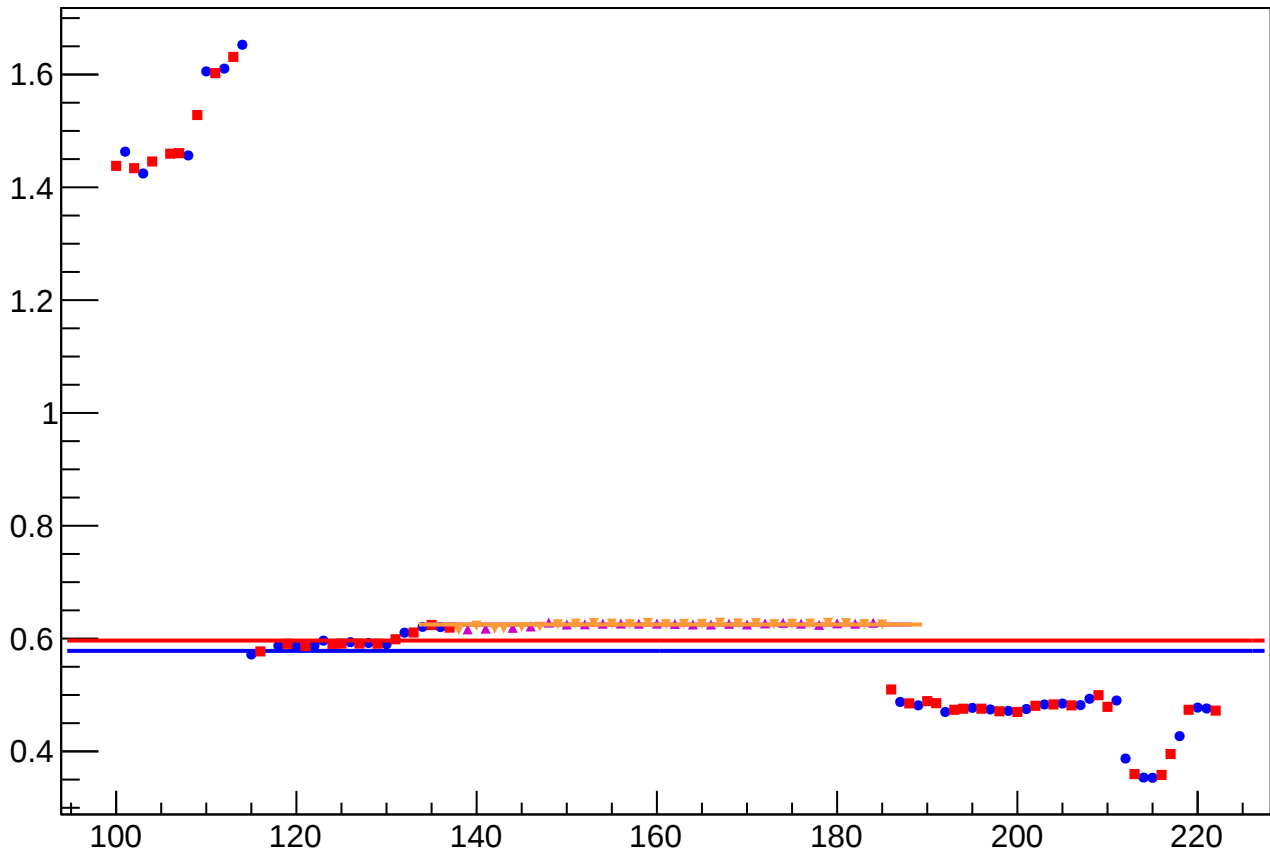
Right: 0.032+/-0.000 χ^2/NDF : 16145496.7/72

In: 0.023+/-0.000 χ^2/NDF : 11583957.5/57

Out: 0.023+/-0.000 χ^2/NDF : 12204979.9/62

All: 0.023+/-0.000 χ^2/NDF : 23788947.6/120

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.578 $\pm$ 0.000 χ^2/NDF : 5628716172.8/34

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF : 1445169.1/24

Right Out: 0.596 $\pm$ 0.000 χ^2/NDF : 6674315953.9/37

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

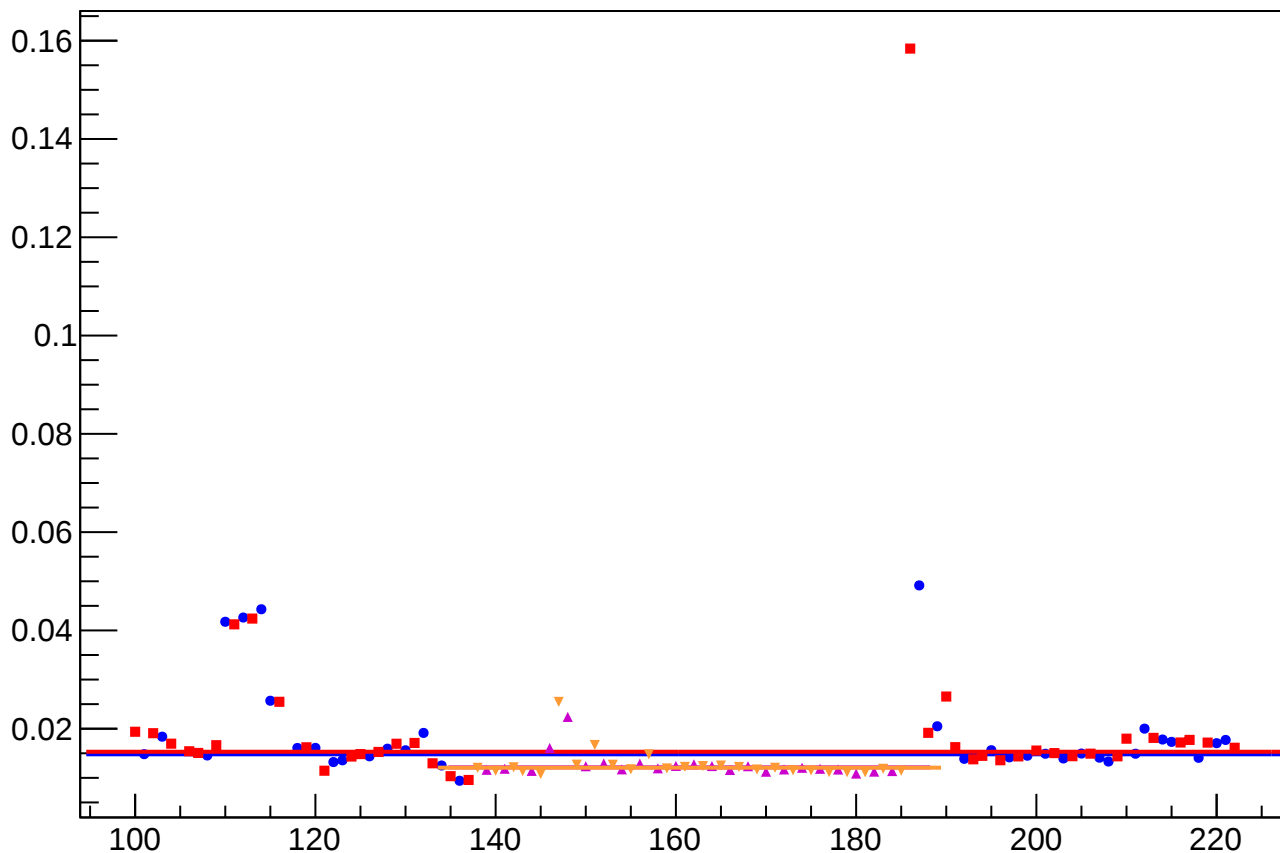
Right: 0.587 $\pm$ 0.000 χ^2/NDF : 12316273656.7/72

In: 0.605 $\pm$ 0.000 χ^2/NDF : 5732126335.3/57

Out: 0.614 $\pm$ 0.000 χ^2/NDF : 6714079038.0/62

All: 0.610 $\pm$ 0.000 χ^2/NDF : 12452967645.5/122

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1897059.1/34

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2238368.7/37

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

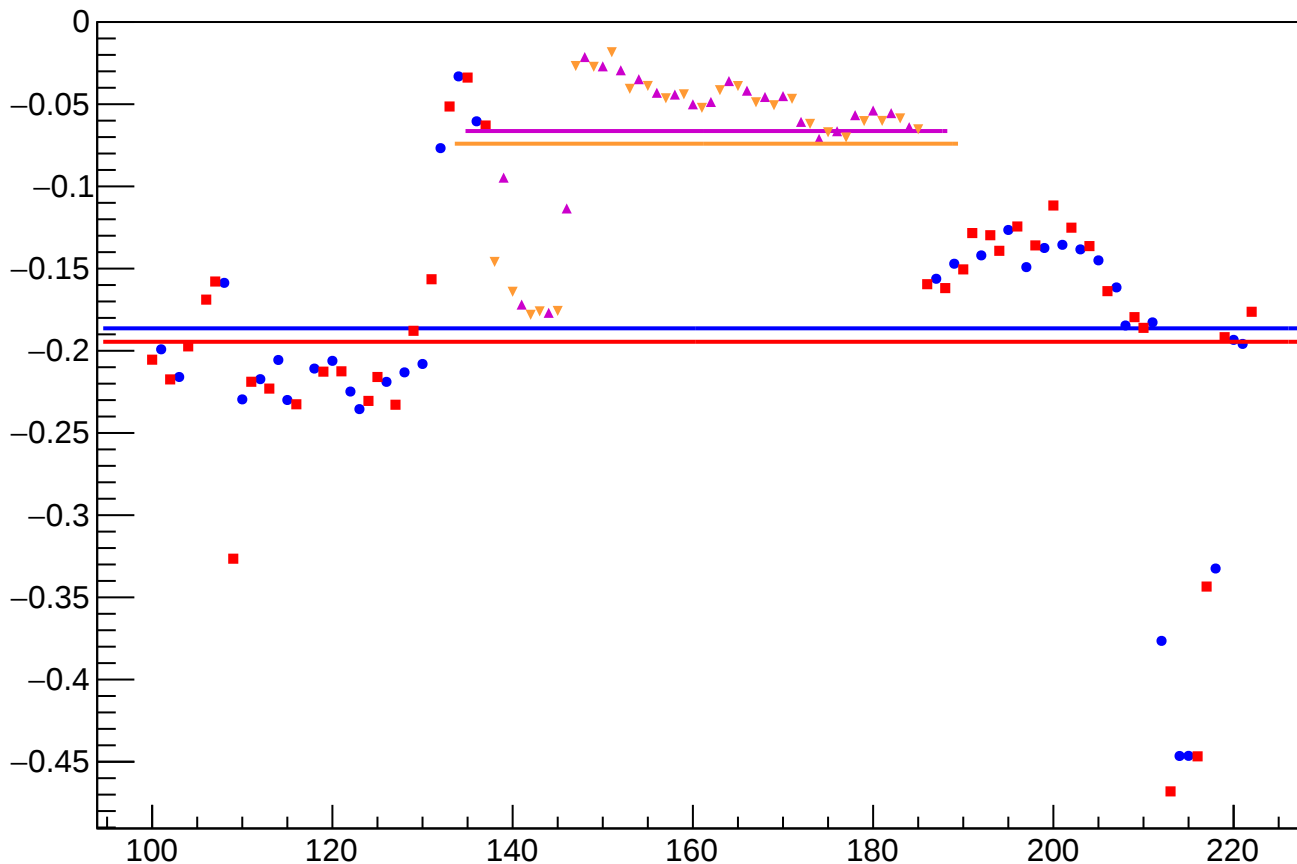
Right: 0.015+/-0.000 χ^2/NDF : 4156738.6/72

In: 0.013+/-0.000 χ^2/NDF : 3049276.1/57

Out: 0.013+/-0.000 χ^2/NDF : 3891684.8/62

All: 0.013+/-0.000 χ^2/NDF : 6942999.1/120

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2/NDF : 127735296.4/34

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134574033.1/37

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

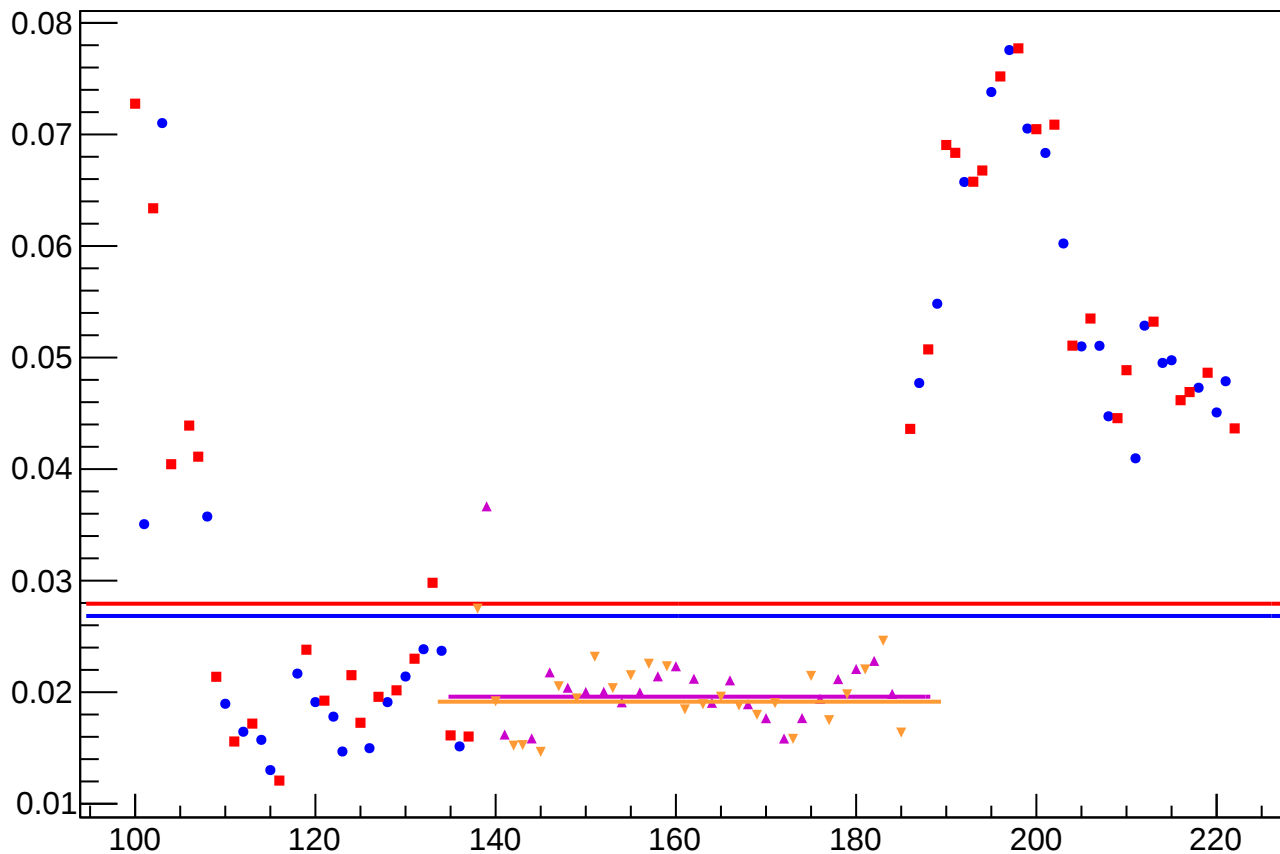
Right: -0.190+/-0.000 χ^2/NDF : 262913199.5/72

In: -0.106+/-0.000 χ^2/NDF : 380607542.3/57

Out: -0.110+/-0.000 χ^2/NDF : 422501606.0/62

All: -0.108+/-0.000 χ^2/NDF : 803671720.9/12

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9552968.1/34

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9792221.2/37

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

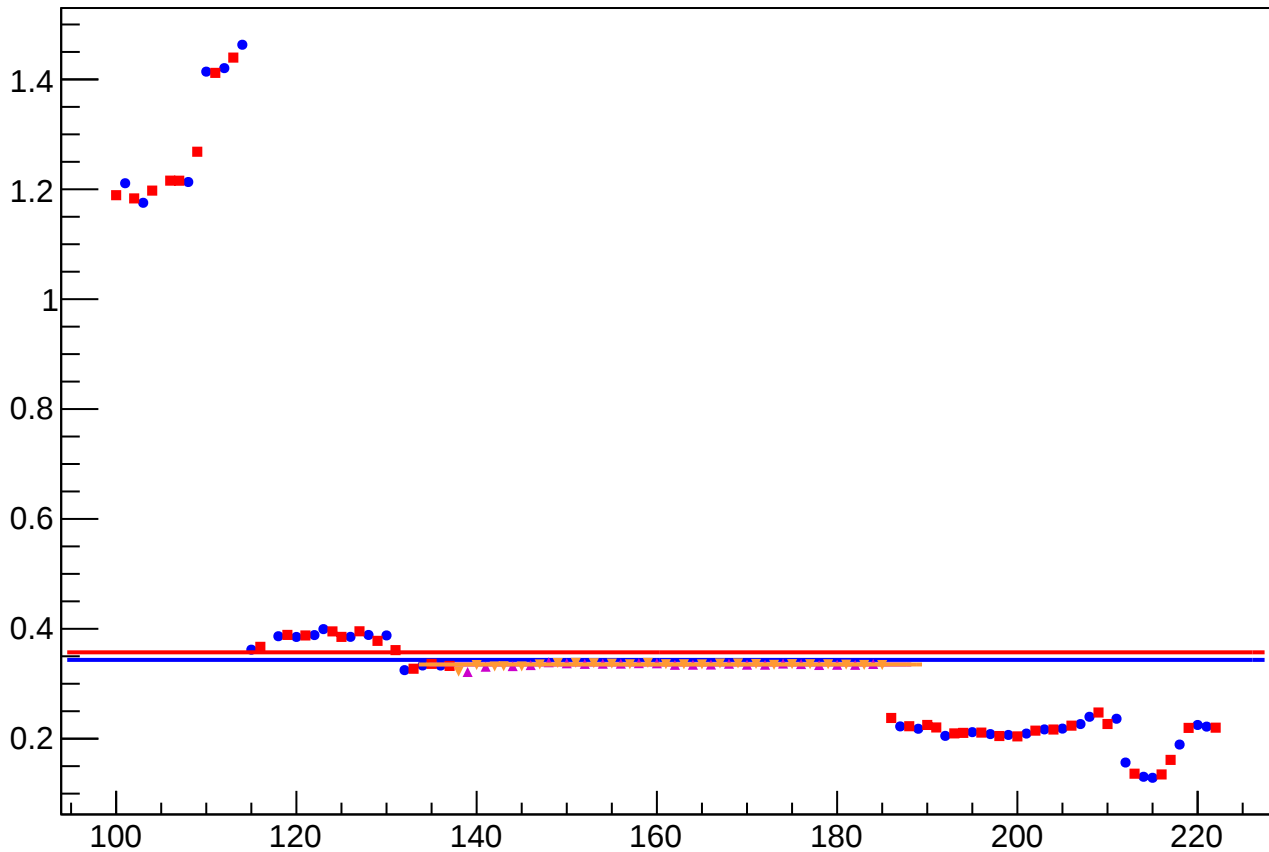
Right: 0.027+/-0.000 χ^2/NDF : 19366956.9/72

In: 0.022+/-0.000 χ^2/NDF : 11460738.4/57

Out: 0.022+/-0.000 χ^2/NDF : 12348987.3/62

All: 0.022+/-0.000 χ^2/NDF : 23811709.1/120

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.343+/-0.000 χ^2/NDF : 8110118146.3/34

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.357+/-0.000 χ^2/NDF : 9200216903.4/37

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

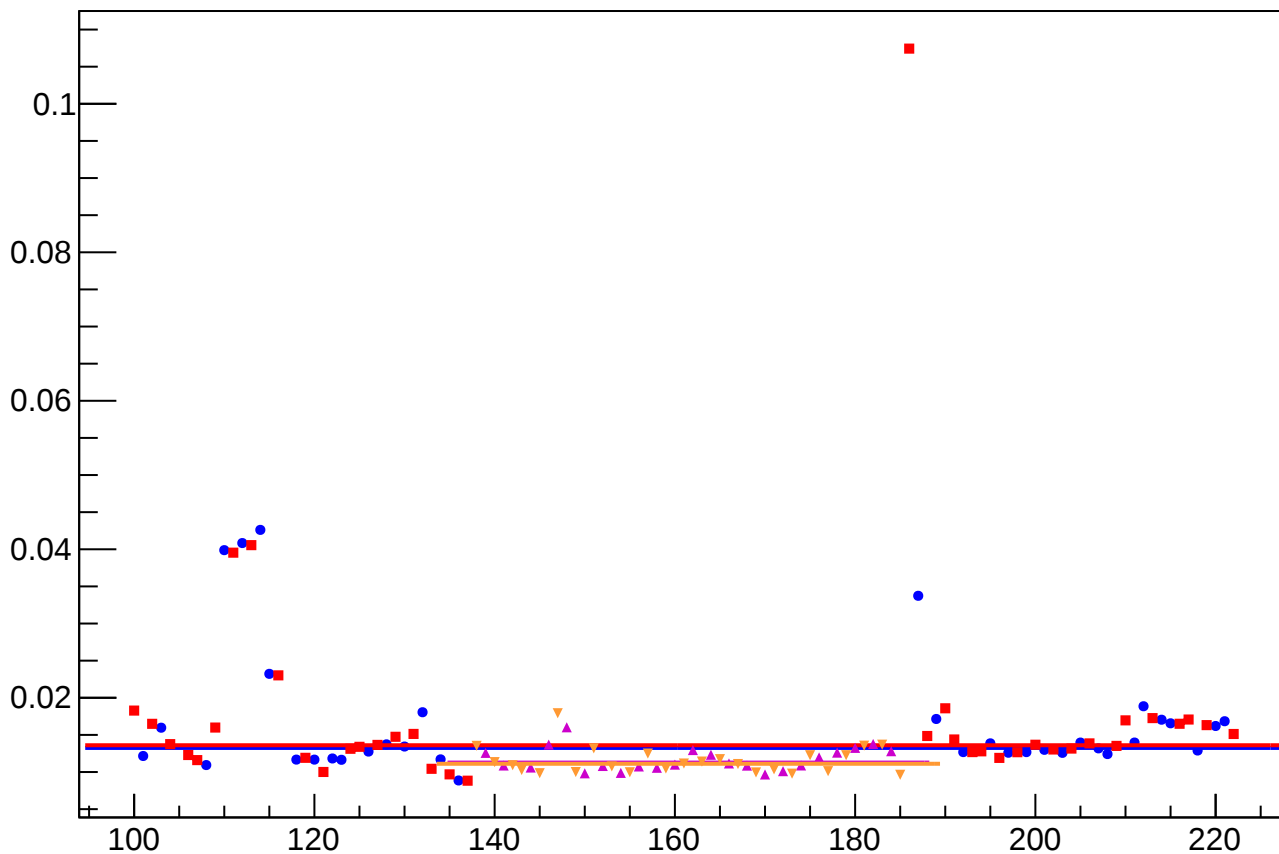
Right: 0.350+/-0.000 χ^2/NDF : 17319732529.2/72

In: 0.339+/-0.000 χ^2/NDF : 8115304083.6/57

Out: 0.344+/-0.000 χ^2/NDF : 9229658868.0/62

All: 0.341+/-0.000 χ^2/NDF : 17348477430.9/131

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1919342.3/34

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2276324.3/37

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

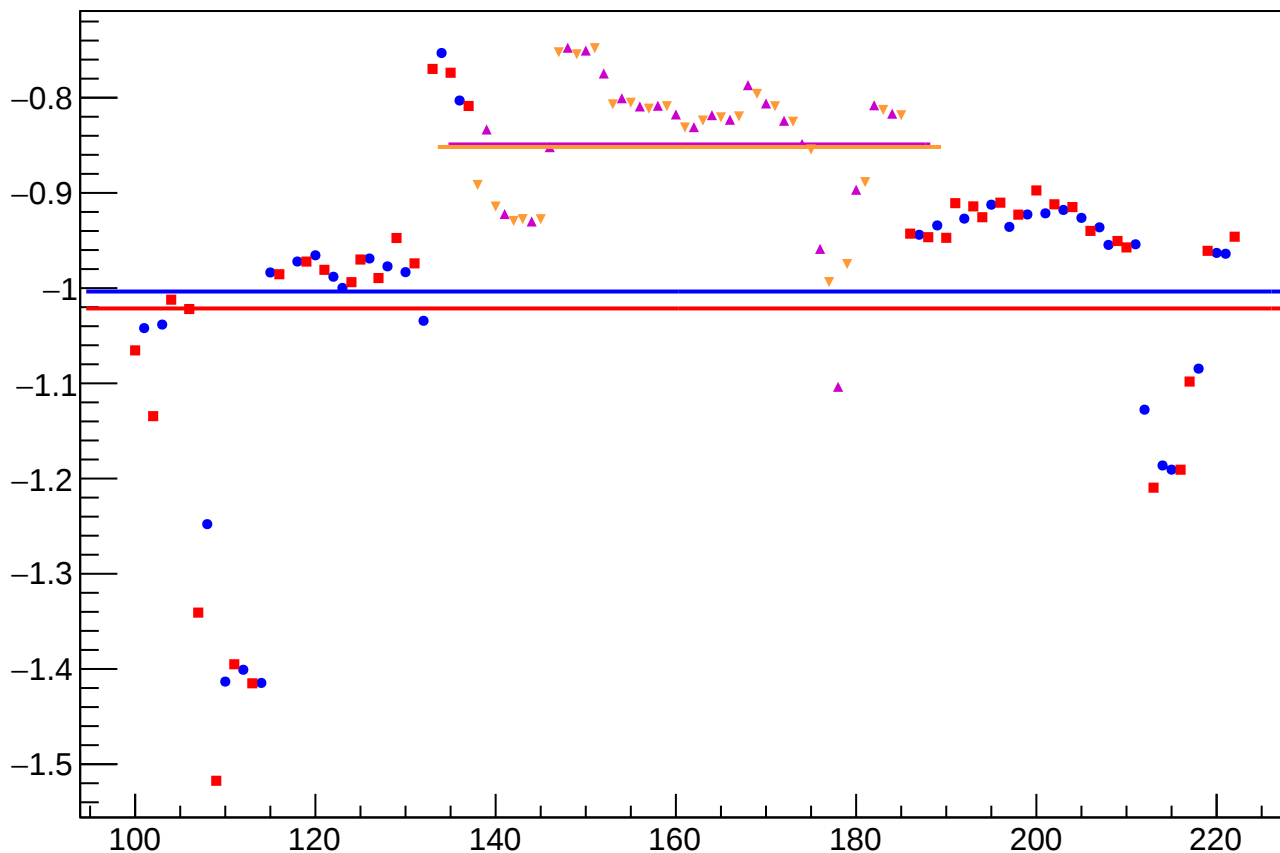
Right: 0.013+/-0.000 χ^2/NDF : 4208574.6/72

In: 0.012+/-0.000 χ^2/NDF : 2861259.4/57

Out: 0.012+/-0.000 χ^2/NDF : 3604435.3/62

All: 0.012+/-0.000 χ^2/NDF : 6465696.7/120

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 $\chi^2/\text{NDF}: 430054402.7/34$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.021 ± 0.000 $\chi^2/\text{NDF}: 581509787.5/37$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

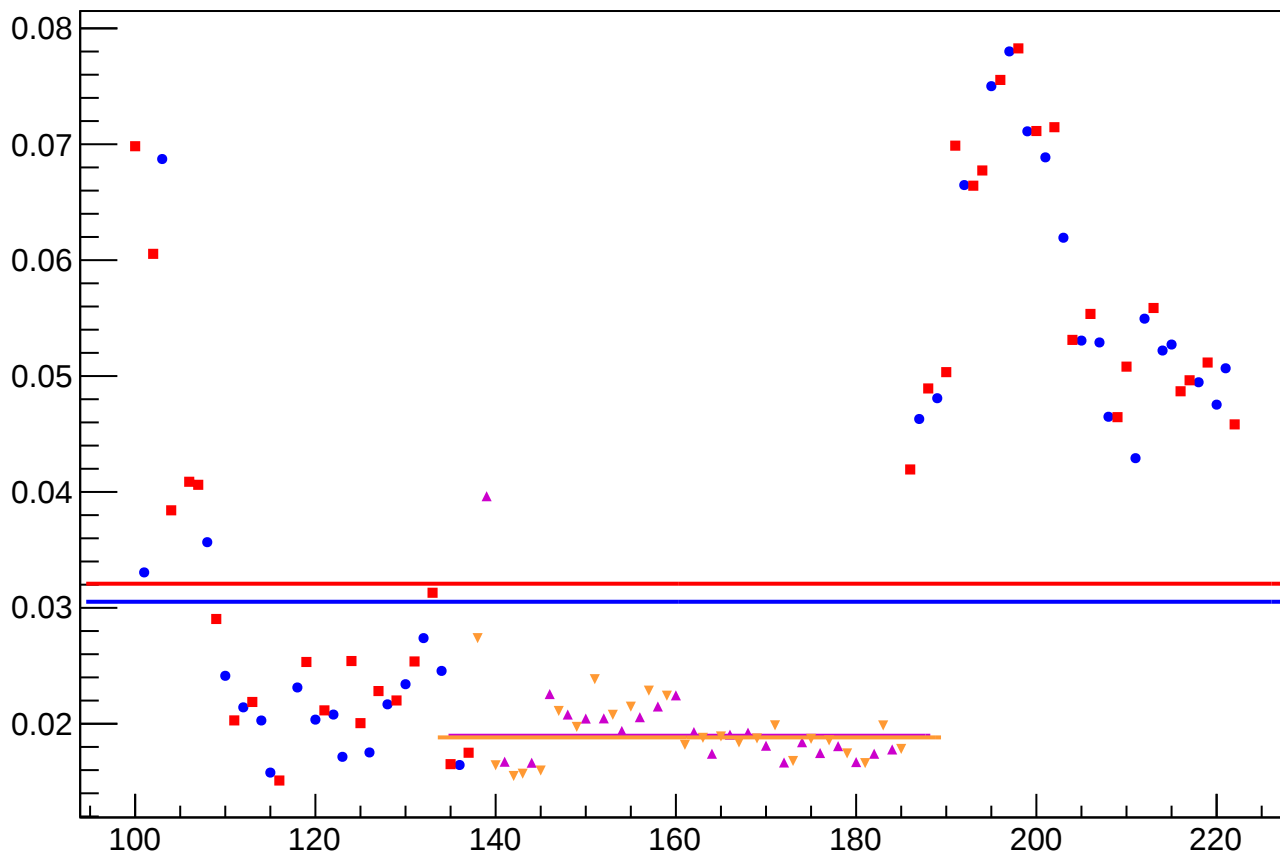
Right: -1.012 ± 0.000 $\chi^2/\text{NDF}: 1013885101.6/72$

In: -0.892 ± 0.000 $\chi^2/\text{NDF}: 943832931.4/57$

Out: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1078623979.3/62$

All: -0.894 ± 0.000 $\chi^2/\text{NDF}: 2022722263.7/119$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8056071.2/34

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7876087.5/37

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

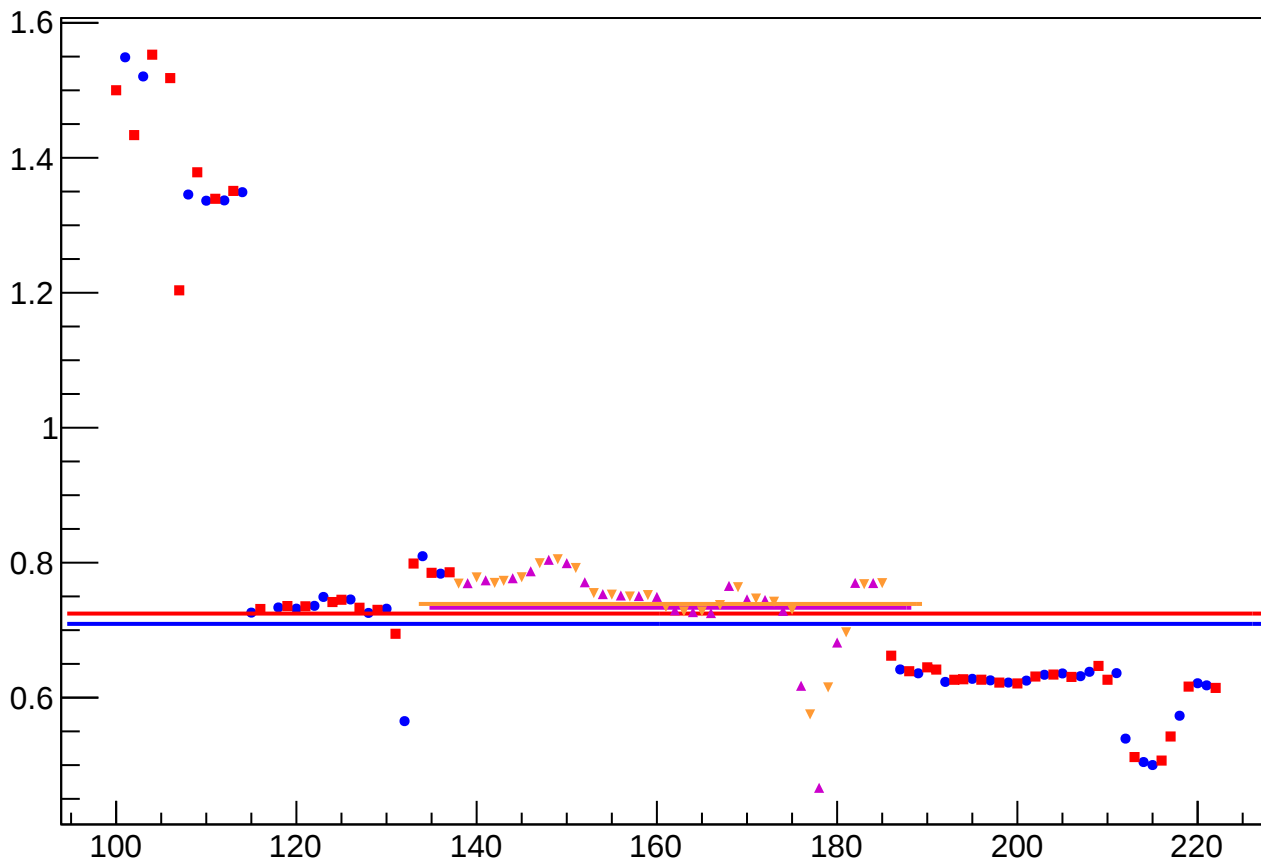
Right: 0.031+/-0.000 χ^2/NDF : 15967720.8/72

In: 0.022+/-0.000 χ^2/NDF : 11553594.2/57

Out: 0.022+/-0.000 χ^2/NDF : 12131817.7/62

All: 0.022+/-0.000 χ^2/NDF : 23685481.0/120

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.709 $\pm$ 0.000 χ^2 /NDF: 3934497830.7/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.725 $\pm$ 0.000 χ^2 /NDF: 4258446615.9/37

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

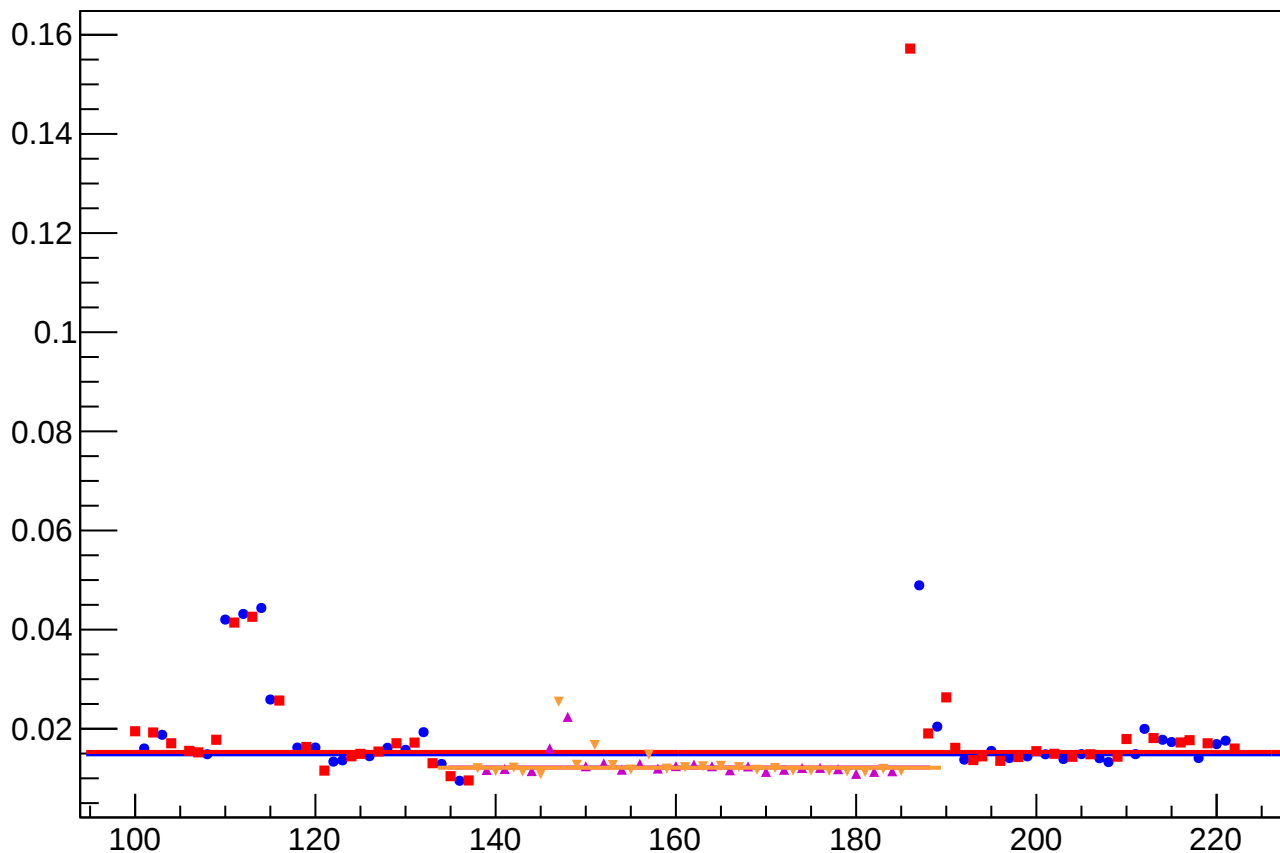
Right: 0.717 $\pm$ 0.000 χ^2 /NDF: 8202117876.0/72

In: 0.723 $\pm$ 0.000 χ^2 /NDF:4530779131.2/57

Out: 0.733 $\pm$ 0.000 χ^2 /NDF:4601060561.7/62

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 9141435052.9/12

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1884788.1/34

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2235865.4/37

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

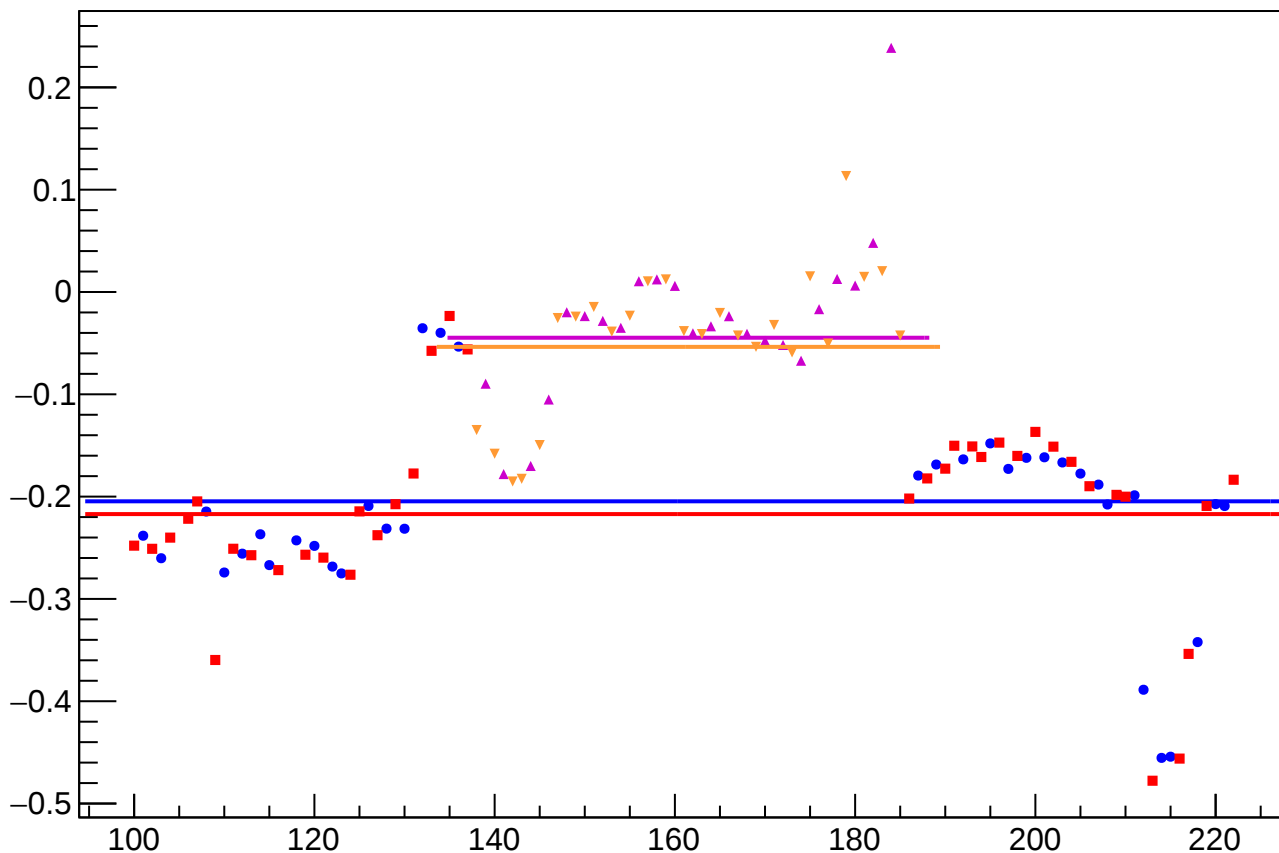
Right: 0.015+/-0.000 χ^2/NDF : 4138948.0/72

In: 0.013+/-0.000 χ^2/NDF : 3023275.7/57

Out: 0.013+/-0.000 χ^2/NDF : 3830834.9/62

All: 0.013+/-0.000 χ^2/NDF : 6856161.6/120

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 χ^2/NDF : 160414534.6/34

Left Out: -0.054 ± 0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.217 ± 0.000 χ^2/NDF : 156742264.9/37

Left In: -0.045 ± 0.000 χ^2/NDF : 127192425.2/22

Left: -0.049 ± 0.000 χ^2/NDF : 296566503.6/47

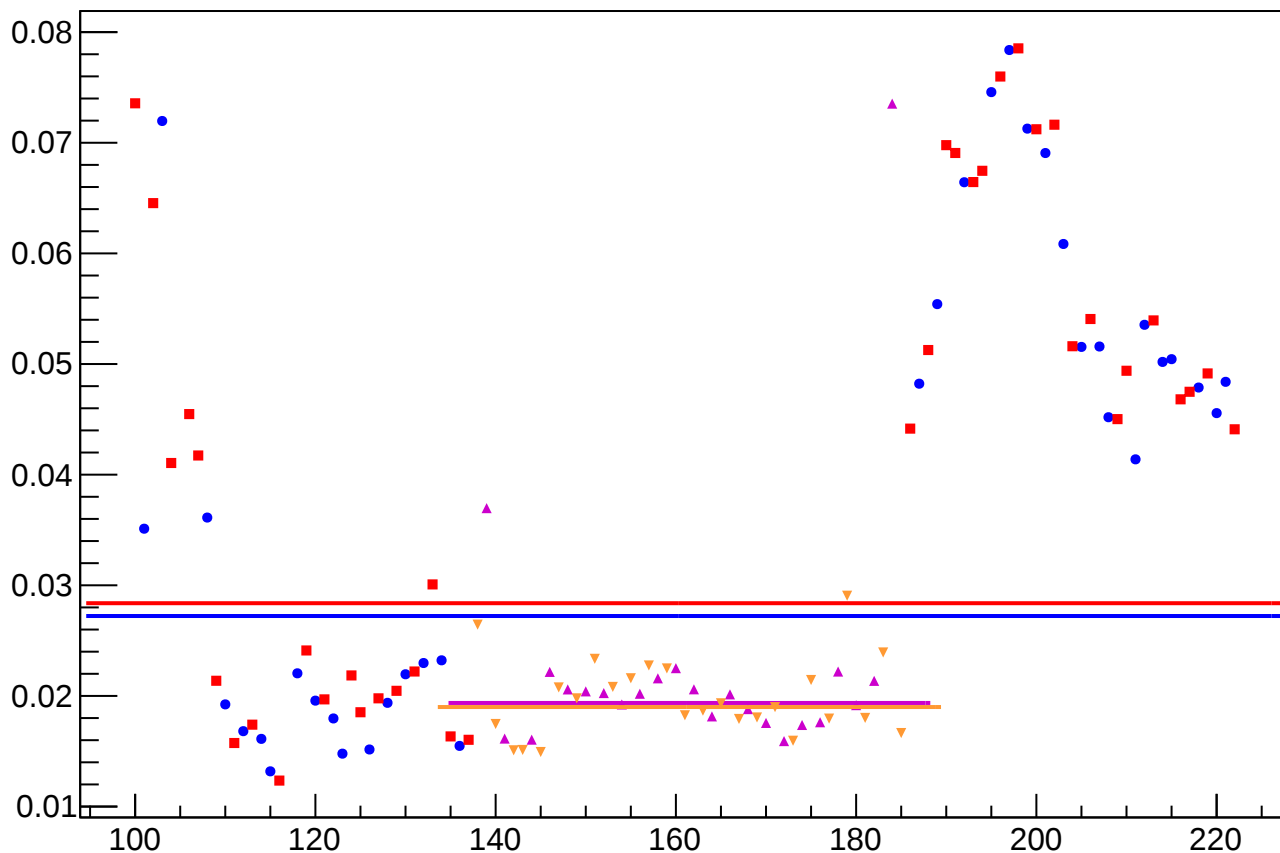
Right: -0.211 ± 0.000 χ^2/NDF : 318523536.4/72

In: -0.097 ± 0.000 χ^2/NDF : 594992184.6/57

Out: -0.102 ± 0.000 χ^2/NDF : 647709009.4/62

All: -0.100 ± 0.000 χ^2/NDF : 1243622729.9/1

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 9483309.5/34

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9722494.6/37

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

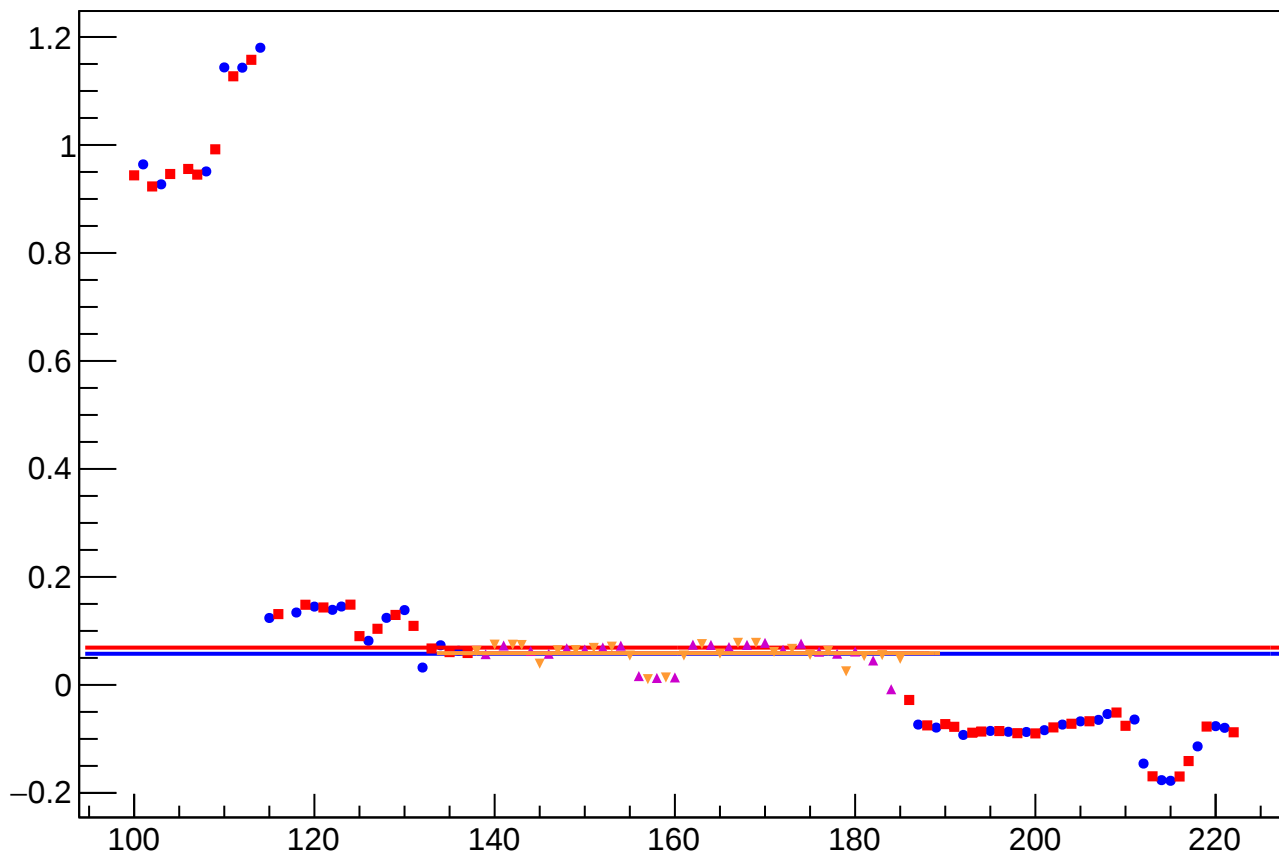
Right: 0.028 $\pm$ 0.000 χ^2 /NDF: 19229315.9/72

In: 0.022 $\pm$ 0.000 χ^2 /NDF: 11826748.4/57

Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 12553780.0/62

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 24381366.7/120

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.058 $\pm$ 0.000 χ^2 /NDF: 8877075063.0/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:46821236.8/24

Right Out: 0.069 $\pm$ 0.000 χ^2 /NDF: 9807491922.3/37

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF:58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

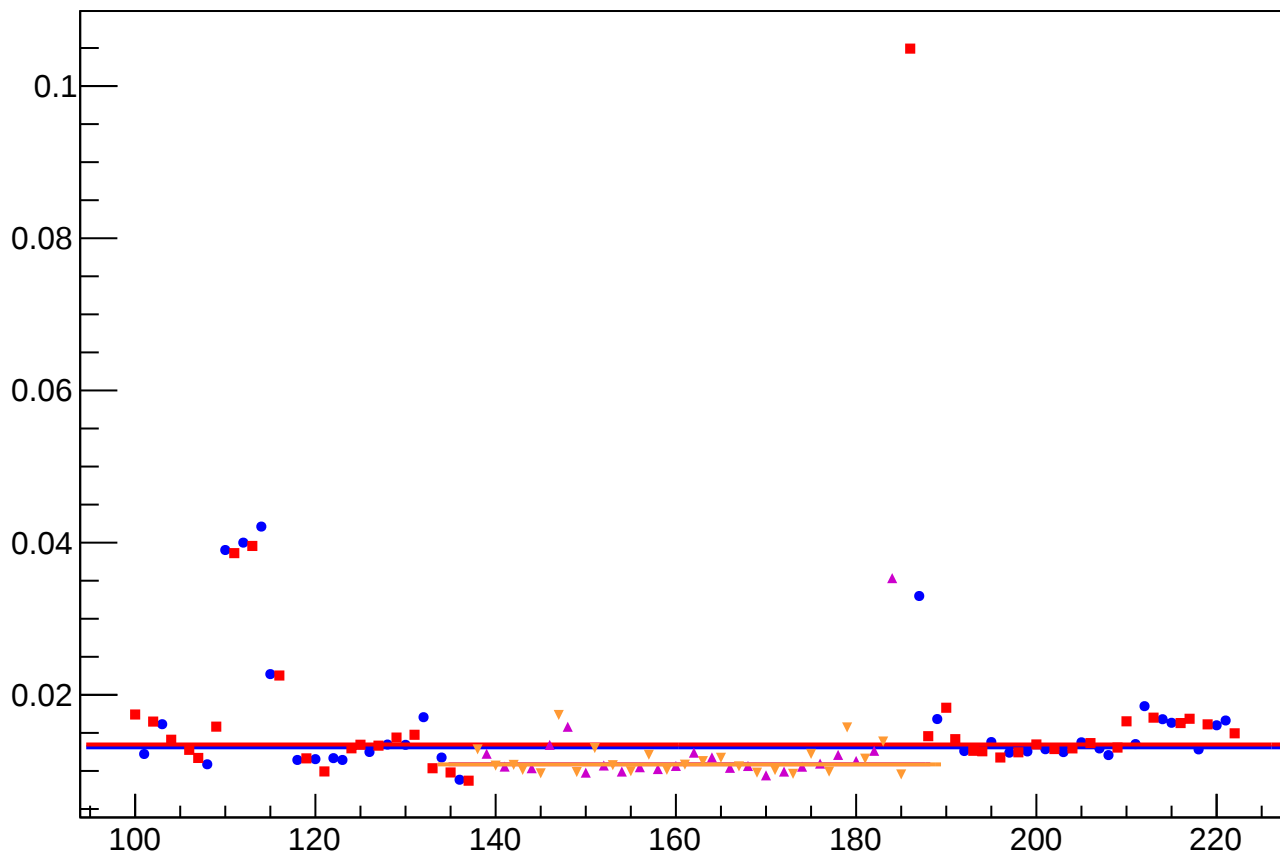
Right: 0.063 $\pm$ 0.000 χ^2 /NDF: 18691149713.2/72

In: 0.058 $\pm$ 0.000 χ^2 /NDF:8935707966.4/57

Out: 0.063 $\pm$ 0.000 χ^2 /NDF:9860511992.7/62

All: 0.061 $\pm$ 0.000 χ^2 /NDF: 18798733102.2/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1870229.3/34

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2213474.7/37

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

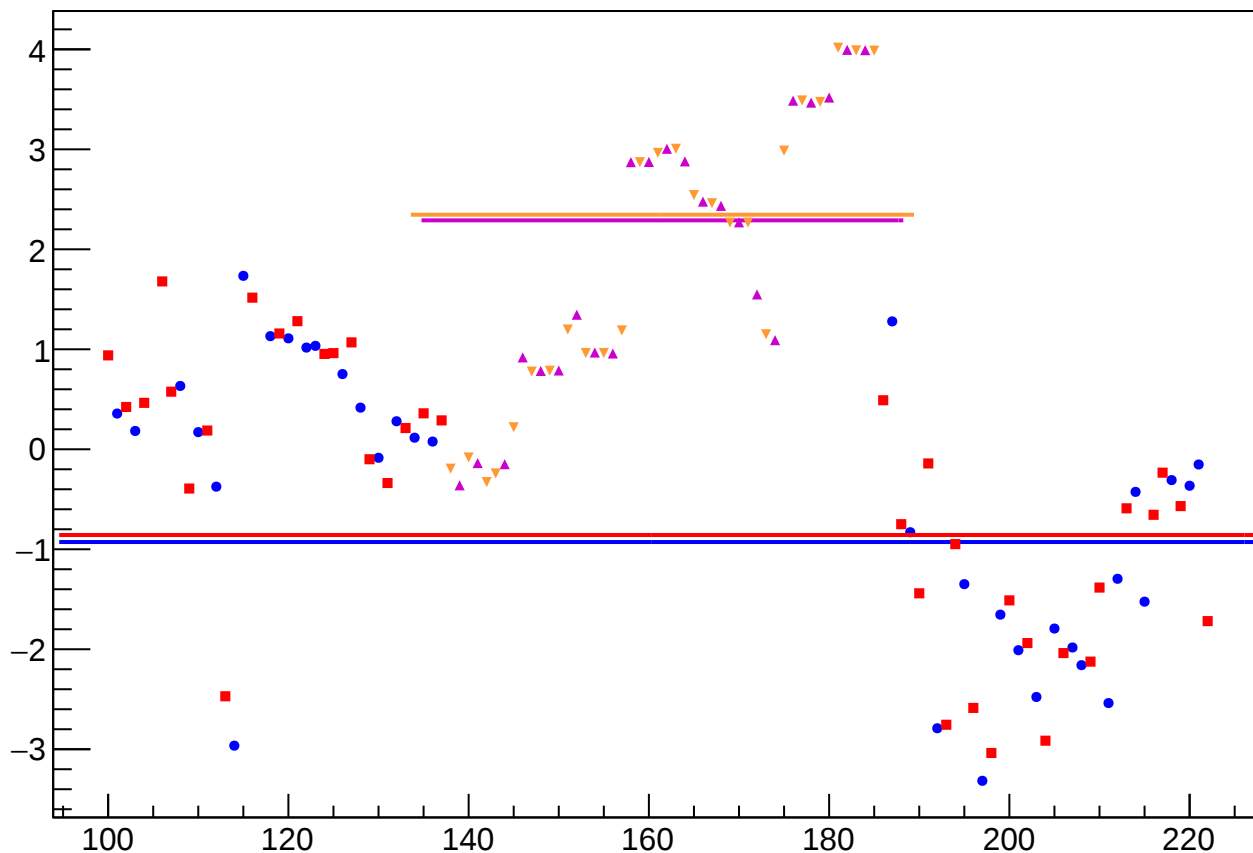
Right: 0.013+/-0.000 χ^2/NDF : 4097564.8/72

In: 0.012+/-0.000 χ^2/NDF : 2972040.9/57

Out: 0.012+/-0.000 χ^2/NDF : 3625392.3/62

All: 0.012+/-0.000 χ^2/NDF : 6599451.1/120

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.928 ± 0.000 χ^2/NDF : 8163576525.3/34

Left Out: 2.346 ± 0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.857 ± 0.000 χ^2/NDF : 8583562868.8/37

Left In: 2.290 ± 0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318 ± 0.000 χ^2/NDF : 124438674298.4/47

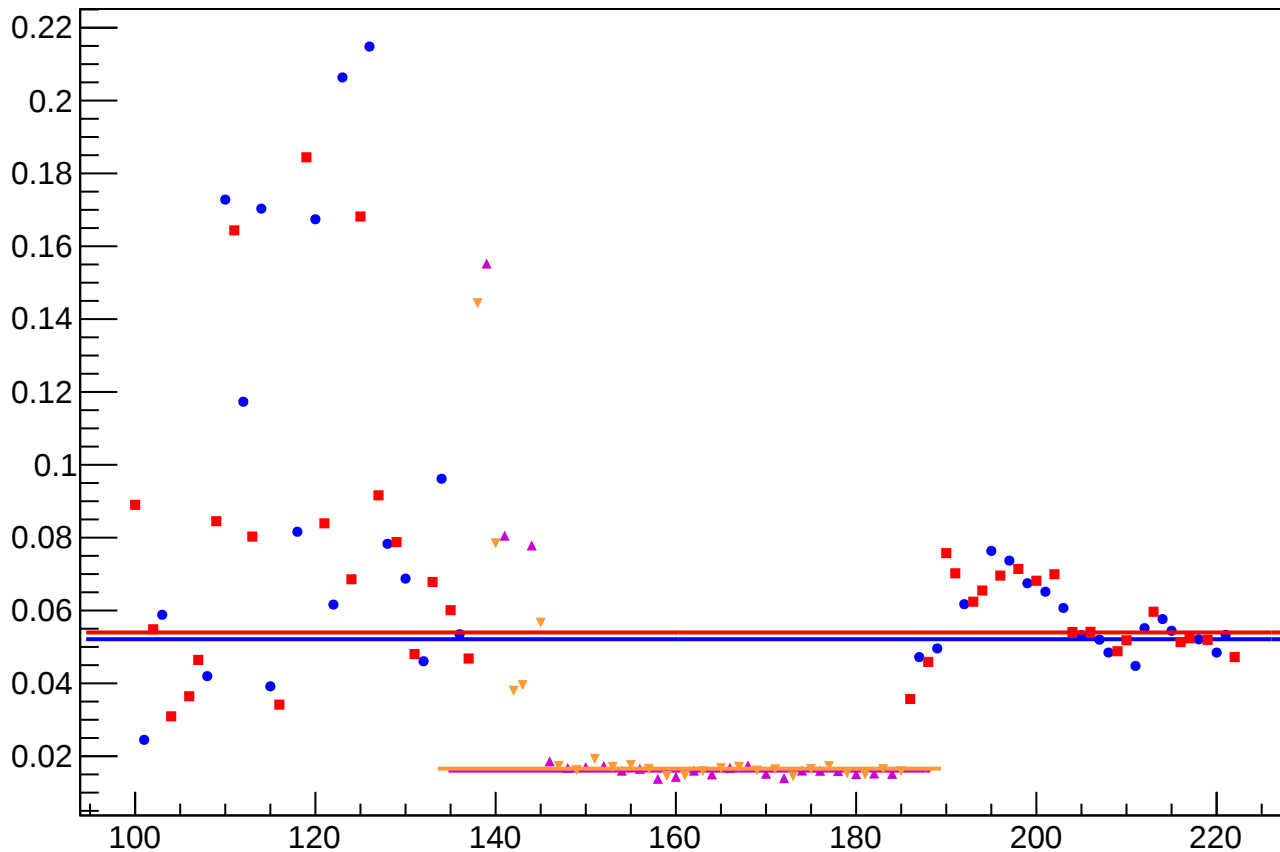
Right: -0.893 ± 0.000 χ^2/NDF : 16760966422.5/72

In: 1.975 ± 0.000 χ^2/NDF : 121484986776.3/57

Out: 2.029 ± 0.000 χ^2/NDF : 123826275759.0/62

All: 2.002 ± 0.000 χ^2/NDF : 245393493930.8

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3576238.7/34

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2919452.9/37

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

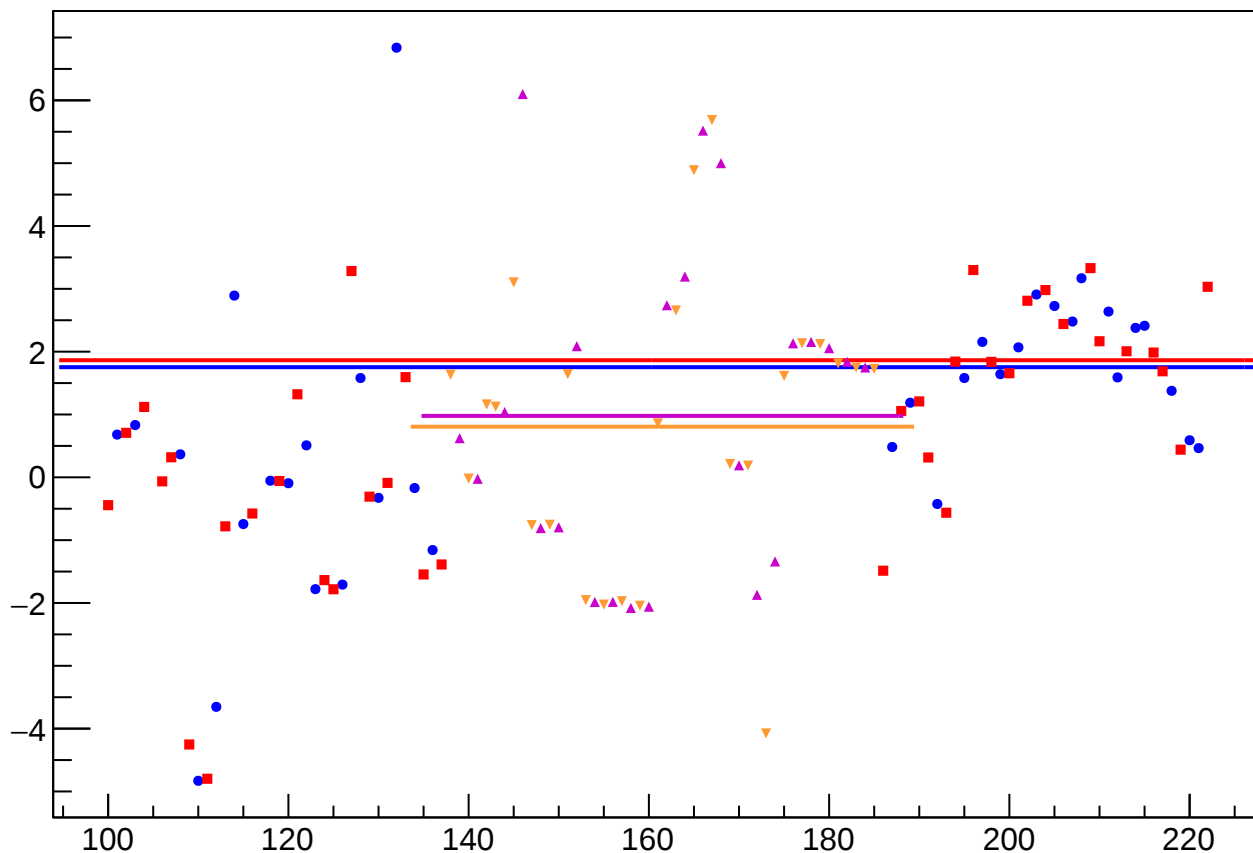
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6514962.7/72

In: 0.020 $\pm$ 0.000 χ^2 /NDF:19158393.5/57

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:19643214.8/62

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 38830690.9/120

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.753+/-0.000

χ^2/NDF : 45797526229.3/34

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right Out: 1.864+/-0.000

χ^2/NDF : 47750370786.9/37

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Right: 1.808+/-0.000

χ^2/NDF : 93773453753.0/72

In: 1.213+/-0.000

χ^2/NDF : 629547374398.3/57

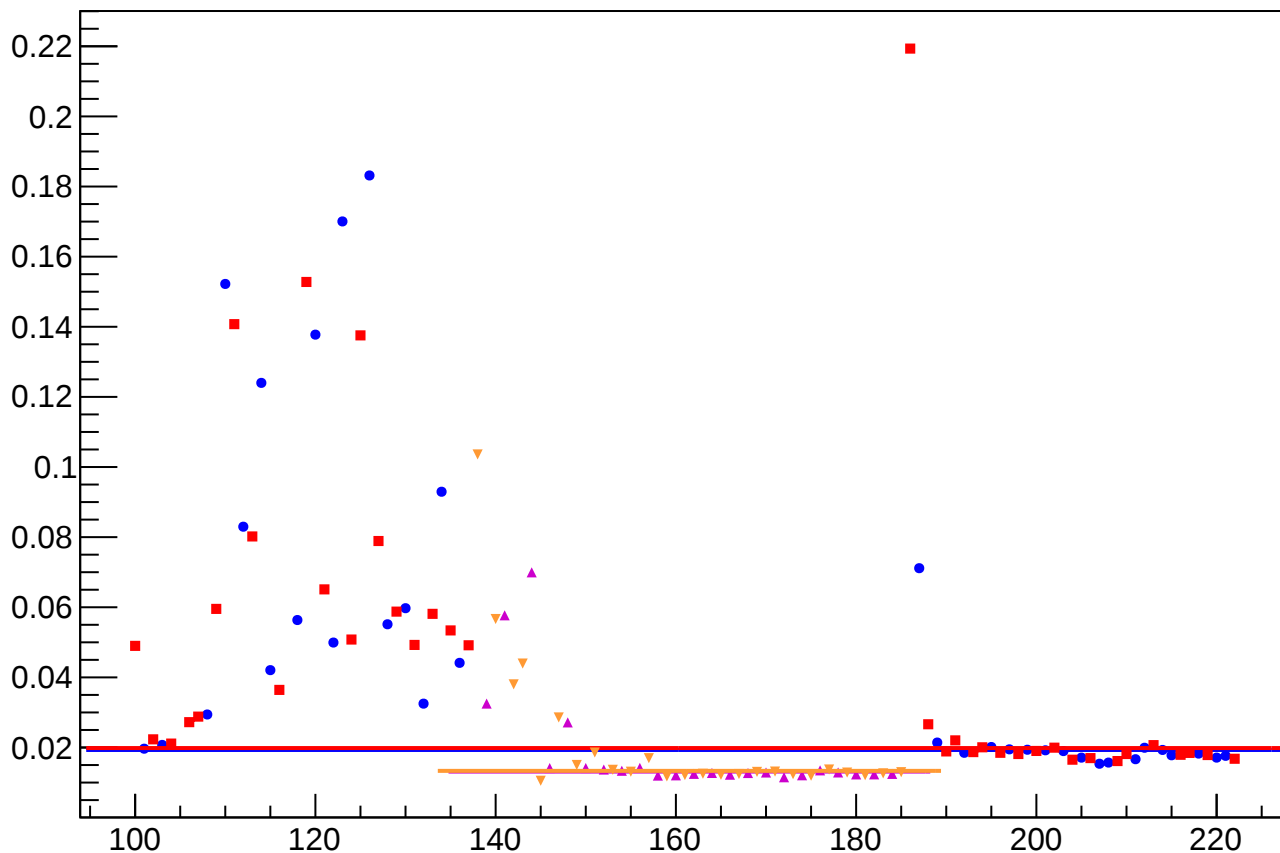
Out: 1.124+/-0.000

χ^2/NDF : 583851998524.7/62

All: 1.169+/-0.000

χ^2/NDF : 1213882888279.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4249075.8/34

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5279660.7/37

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

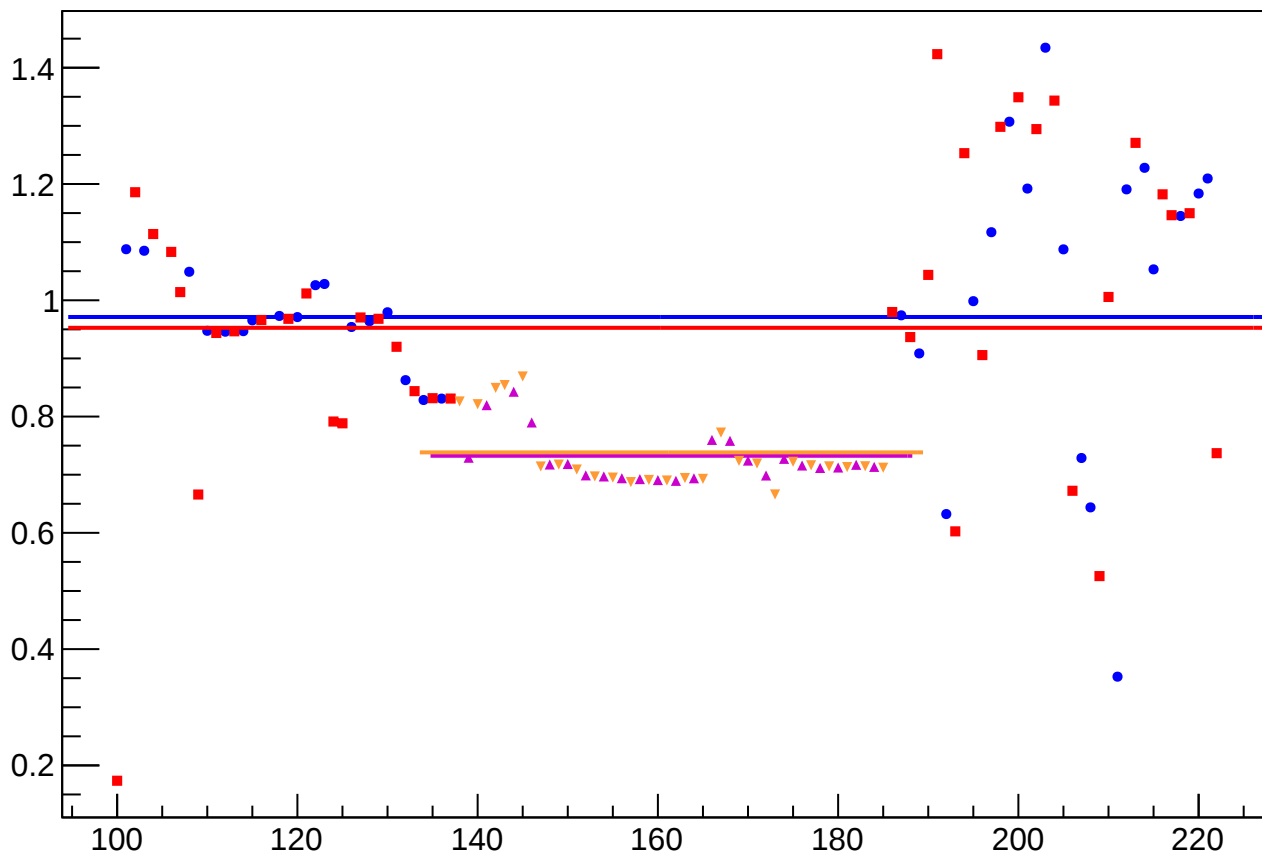
Right: 0.020+/-0.000 χ^2/NDF : 9539662.1/72

In: 0.015+/-0.000 χ^2/NDF : 8157241.2/57

Out: 0.015+/-0.000 χ^2/NDF : 10266776.1/62

All: 0.015+/-0.000 χ^2/NDF : 18433891.8/120

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.971+/-0.000 χ^2/NDF : 1116443050.6/34

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.953+/-0.000 χ^2/NDF : 1401054255.7/37

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

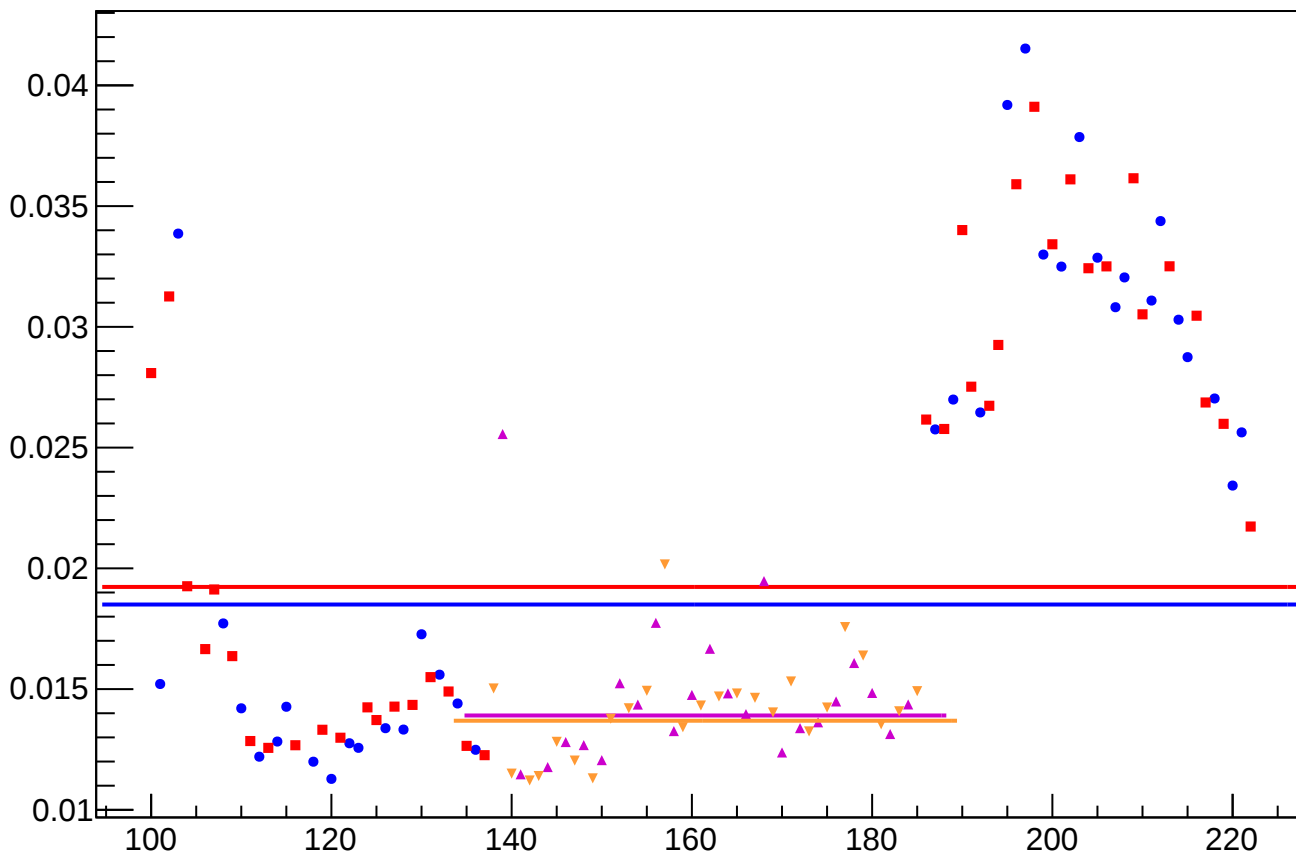
Right: 0.962+/-0.000 χ^2/NDF : 2525023292.6/72

In: 0.817+/-0.000 χ^2/NDF : 2893211827.6/57

Out: 0.810+/-0.000 χ^2/NDF : 3038278947.4/62

All: 0.813+/-0.000 χ^2/NDF : 5934347276.3/12

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5892882.0/34

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5249015.2/37

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

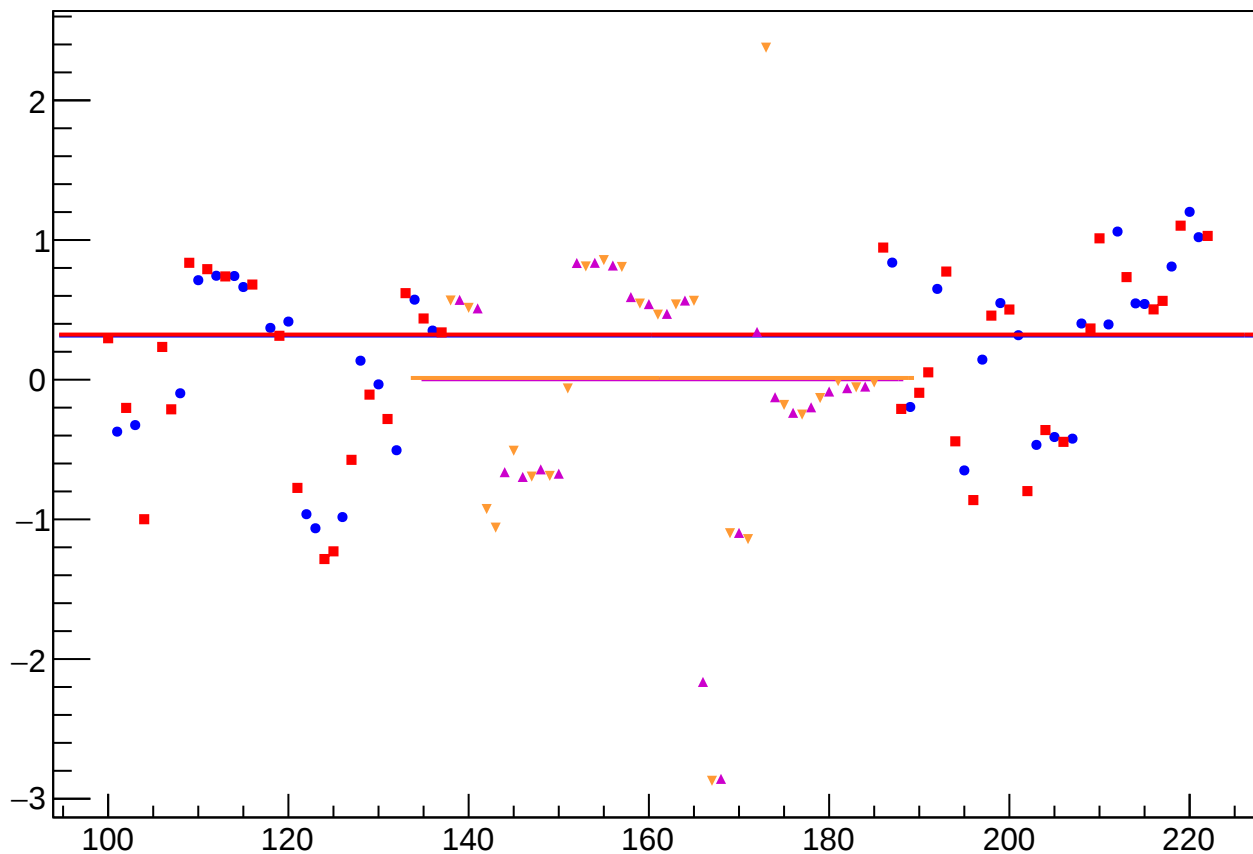
Right: 0.019+/-0.000 χ^2/NDF : 11164978.4/72

In: 0.016+/-0.000 χ^2/NDF : 7851921.8/57

Out: 0.016+/-0.000 χ^2/NDF : 7552094.0/62

All: 0.016+/-0.000 χ^2/NDF : 15404045.1/120

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.316+/-0.000

χ^2/NDF : 46717698412.8/34

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.320+/-0.000 χ^2/NDF : 102014724885.8/72

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.180+/-0.000 χ^2/NDF : 131336440590.0/57

Right Out: 0.323+/-0.000

χ^2/NDF : 55293632877.4/37

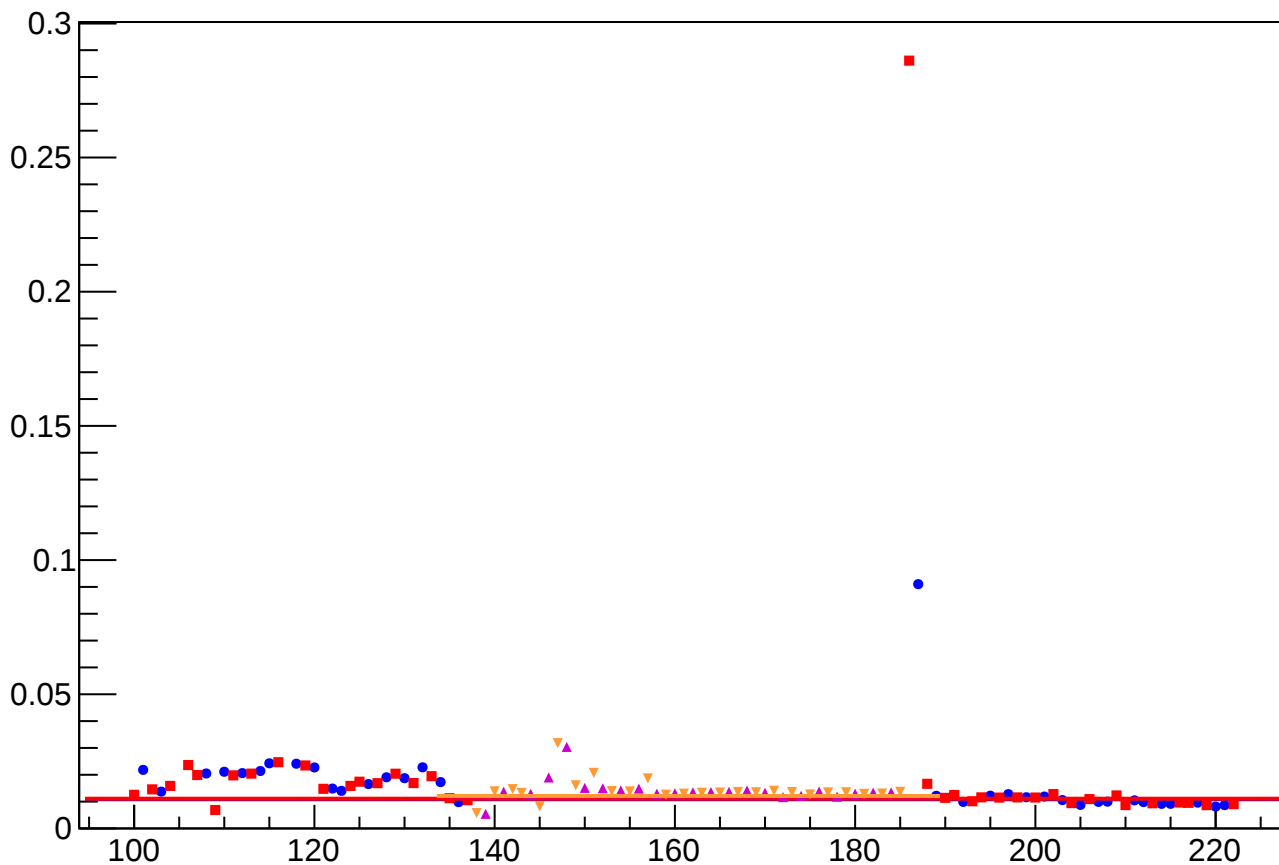
Out: 0.185+/-0.000 χ^2/NDF : 157526246009.8/62

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.183+/-0.000 χ^2/NDF : 288865219278.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2905945.9/34

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3309299.0/37

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

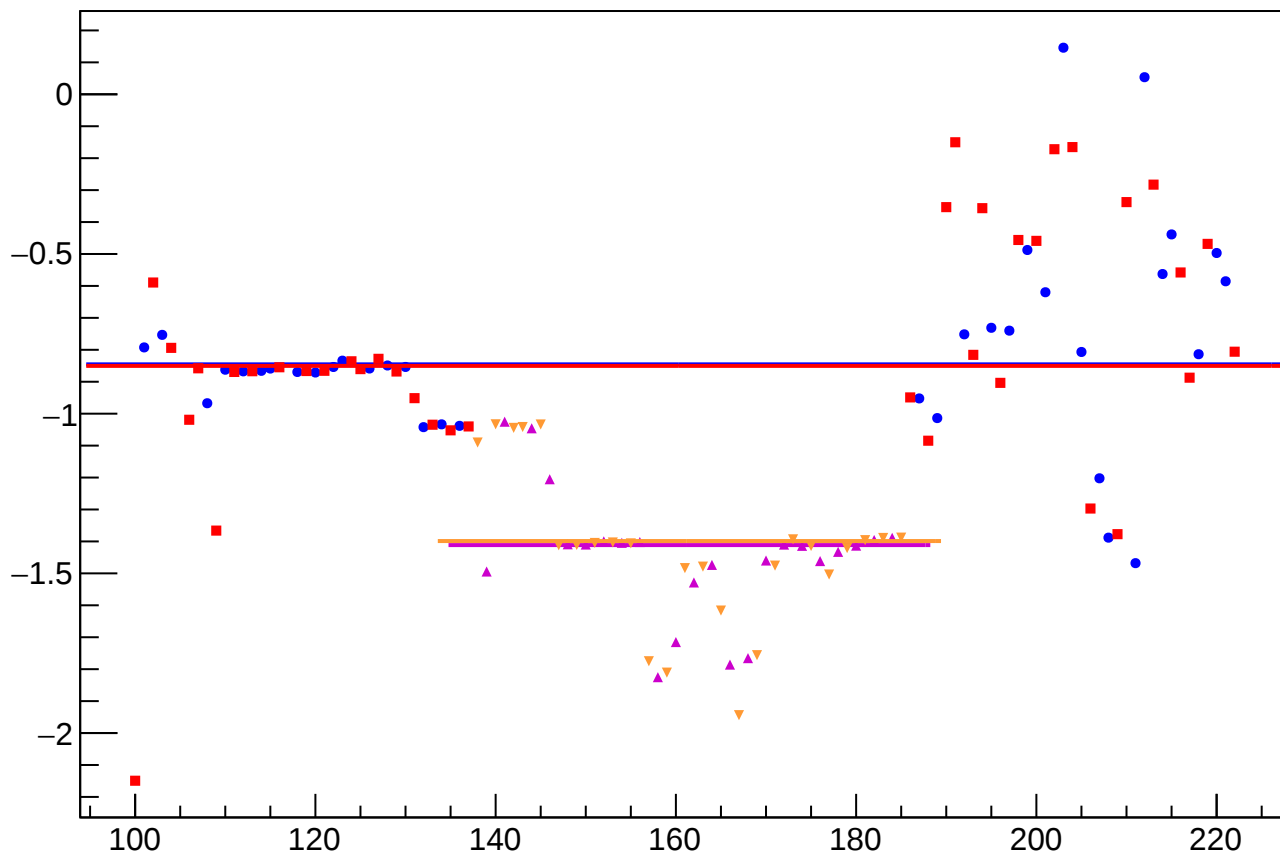
Right: 0.011+/-0.000 χ^2/NDF : 6219730.0/72

In: 0.011+/-0.000 χ^2/NDF :6051761.8/57

Out: 0.012+/-0.000 χ^2/NDF :6541642.0/62

All: 0.011+/-0.000 χ^2/NDF : 12599731.6/120

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.846+/-0.000 χ^2/NDF : 404360921.3/34

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.850+/-0.000 χ^2/NDF : 518406294.5/37

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

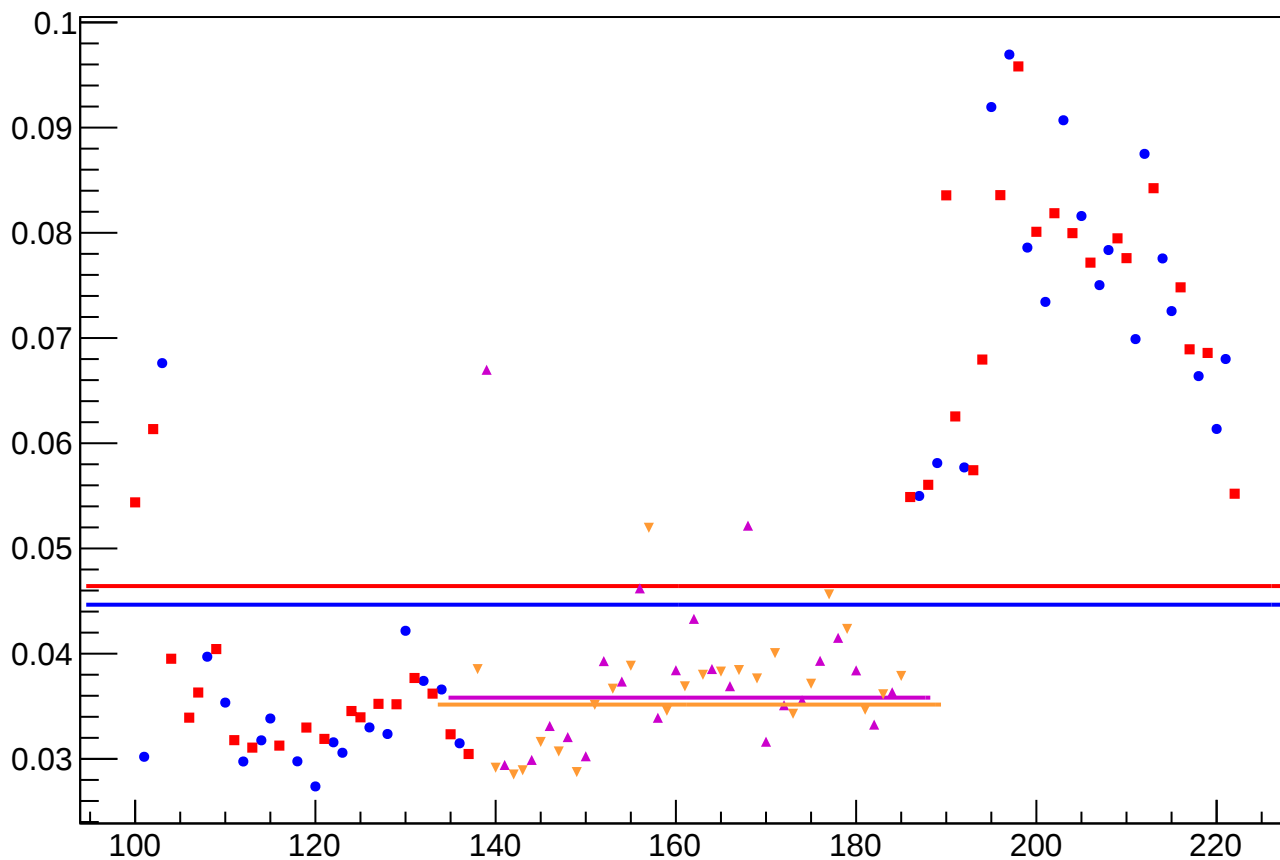
Right: -0.848+/-0.000 χ^2/NDF : 922851936.9/72

In: -1.191+/-0.000 χ^2/NDF : 2401712849.9/57

Out: -1.197+/-0.000 χ^2/NDF : 2691872569.1/62

All: -1.194+/-0.000 χ^2/NDF : 5093941184.0/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2/NDF : 5795814.0/34

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF : 595219.5/24

Right Out: 0.046 $\pm$ 0.000 χ^2/NDF : 4947525.9/37

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

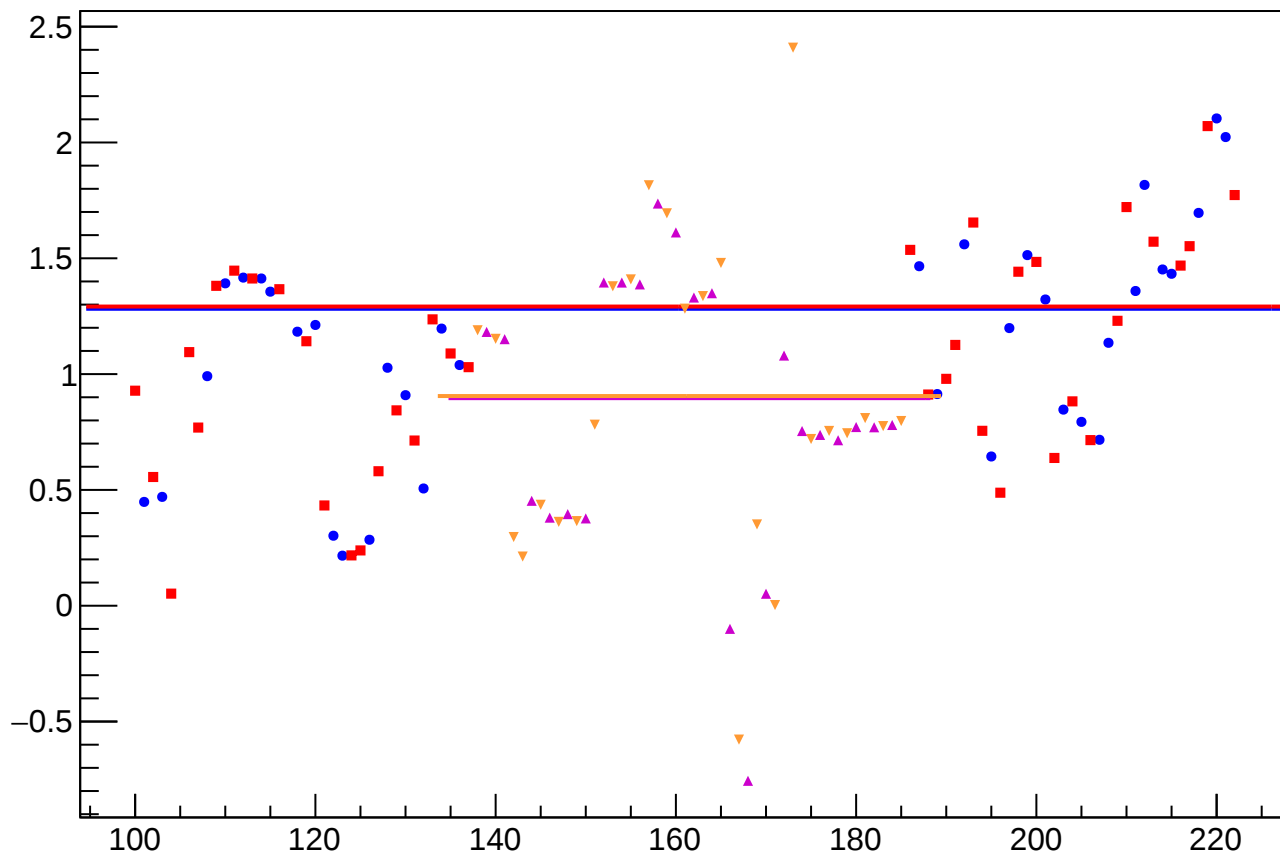
Right: 0.046 $\pm$ 0.000 χ^2/NDF : 10767085.1/72

In: 0.039 $\pm$ 0.000 χ^2/NDF : 7383819.4/57

Out: 0.039 $\pm$ 0.000 χ^2/NDF : 6753339.1/62

All: 0.039 $\pm$ 0.000 χ^2/NDF : 14137198.5/120

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.282 $\pm$ 0.000

χ^2 /NDF: 81832804512.4/34

Left: 0.901 $\pm$ 0.000

χ^2 /NDF: 150868618084.6/47

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

Right: 1.287 $\pm$ 0.000

χ^2 /NDF: 159456863808.0/72

Right Out: 1.292 $\pm$ 0.000

χ^2 /NDF: 77607559735.7/37

In: 1.146 $\pm$ 0.000

χ^2 /NDF: 168184668489.0/57

Out: 1.142 $\pm$ 0.000

χ^2 /NDF: 181852999579.9/62

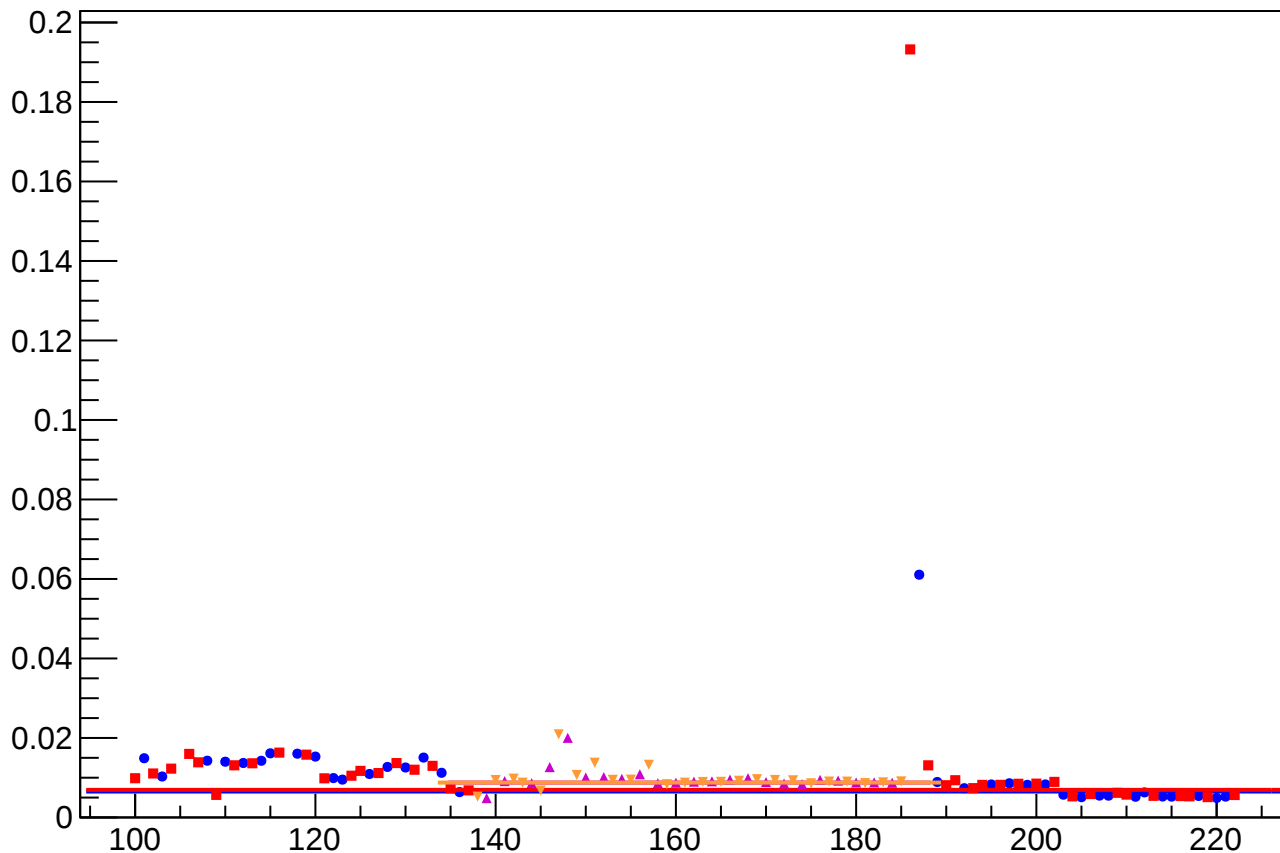
Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 1.144 $\pm$ 0.000

χ^2 /NDF: 350043769351.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4079901.7/34

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4412065.6/37

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

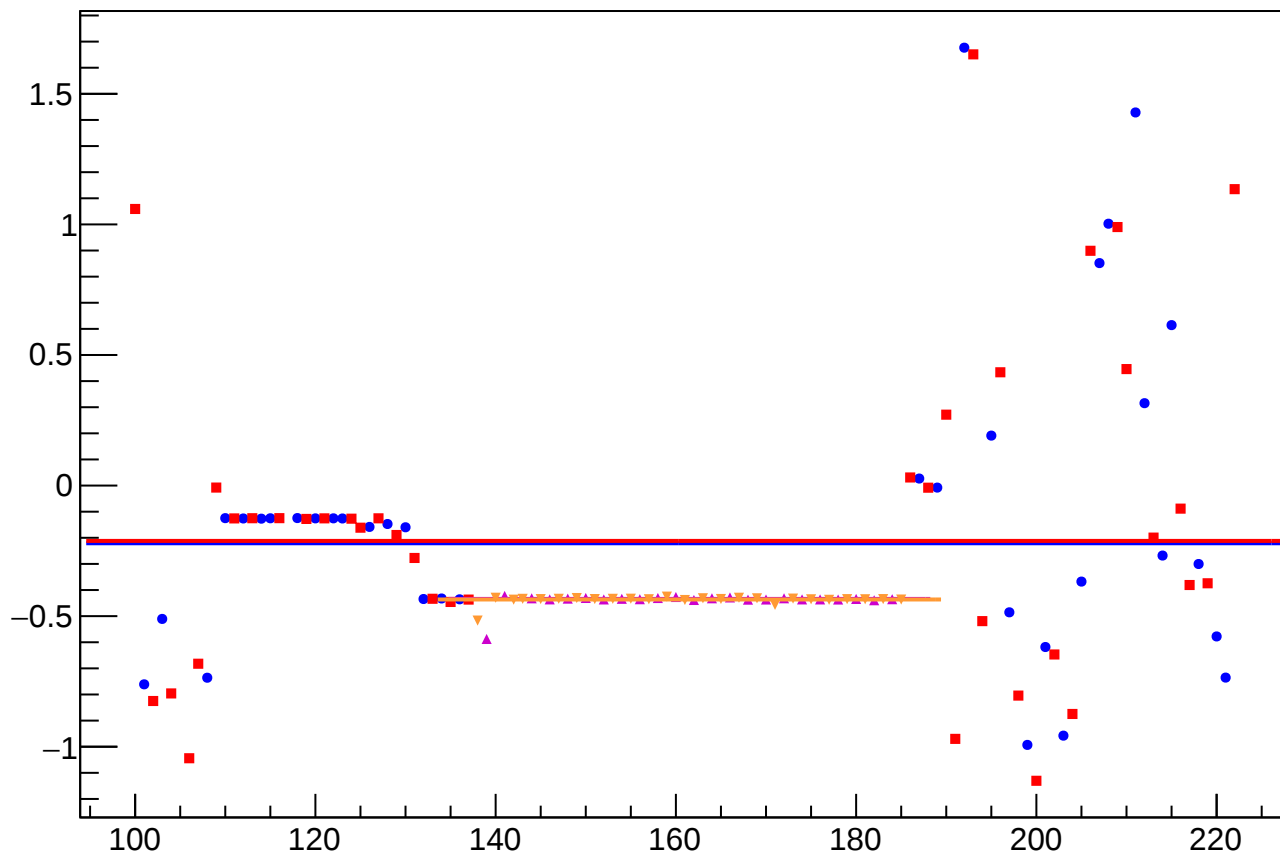
Right: 0.007+/-0.000 χ^2/NDF : 8553570.0/72

In: 0.007+/-0.000 χ^2/NDF :7026110.7/57

Out: 0.008+/-0.000 χ^2/NDF :7013667.0/62

All: 0.007+/-0.000 χ^2/NDF : 14104674.2/120

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.221 ± 0.000 $\chi^2/\text{NDF}: 5105796901.7/34$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28774660.0/24$

Right Out: -0.212 ± 0.000 $\chi^2/\text{NDF}: 4366199433.8/37$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53122221.7/47$

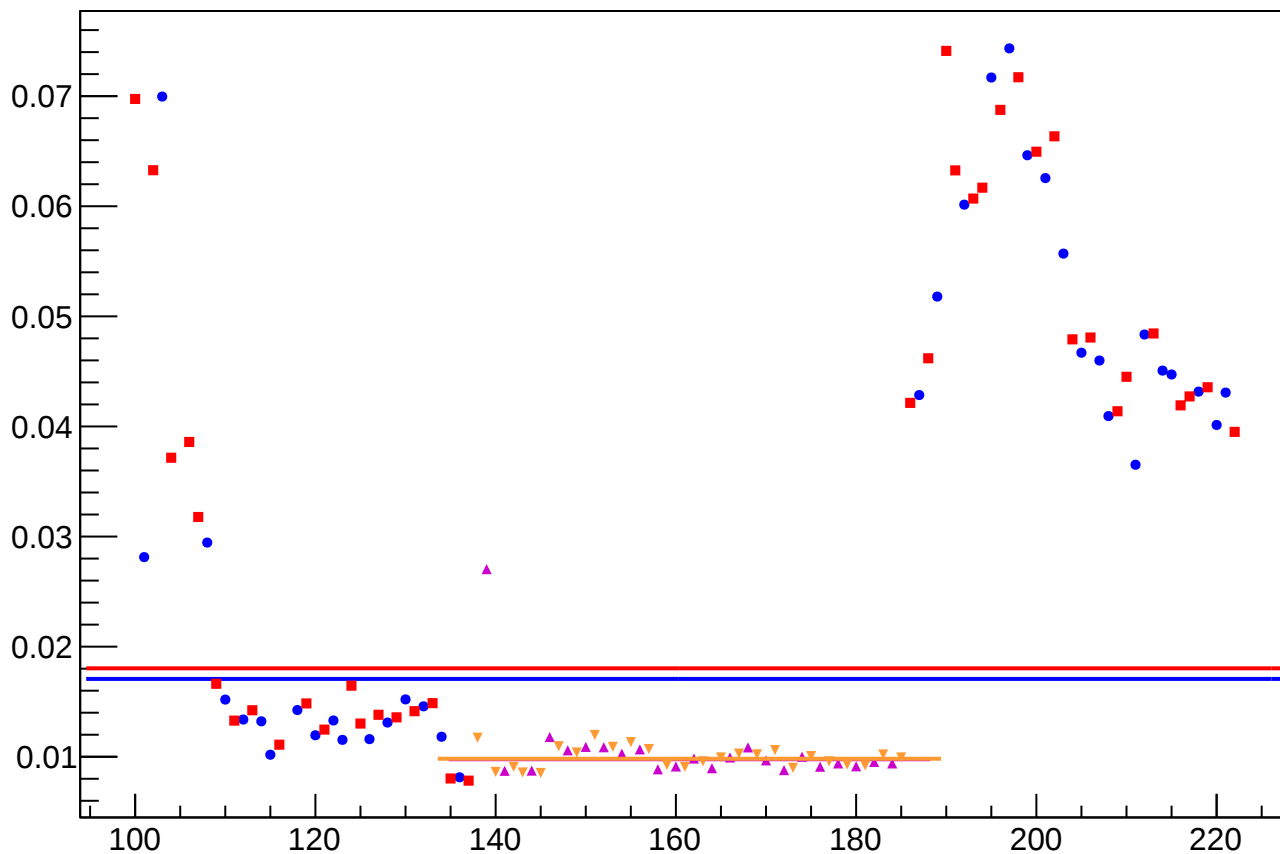
Right: -0.217 ± 0.000 $\chi^2/\text{NDF}: 9473465842.1/72$

In: -0.392 ± 0.000 $\chi^2/\text{NDF}: 6485202128.9/57$

Out: -0.396 ± 0.000 $\chi^2/\text{NDF}: 5841111682.5/62$

All: -0.394 ± 0.000 $\chi^2/\text{NDF}: 12327958035.5/119$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 13940132.0/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 14296956.1/37

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

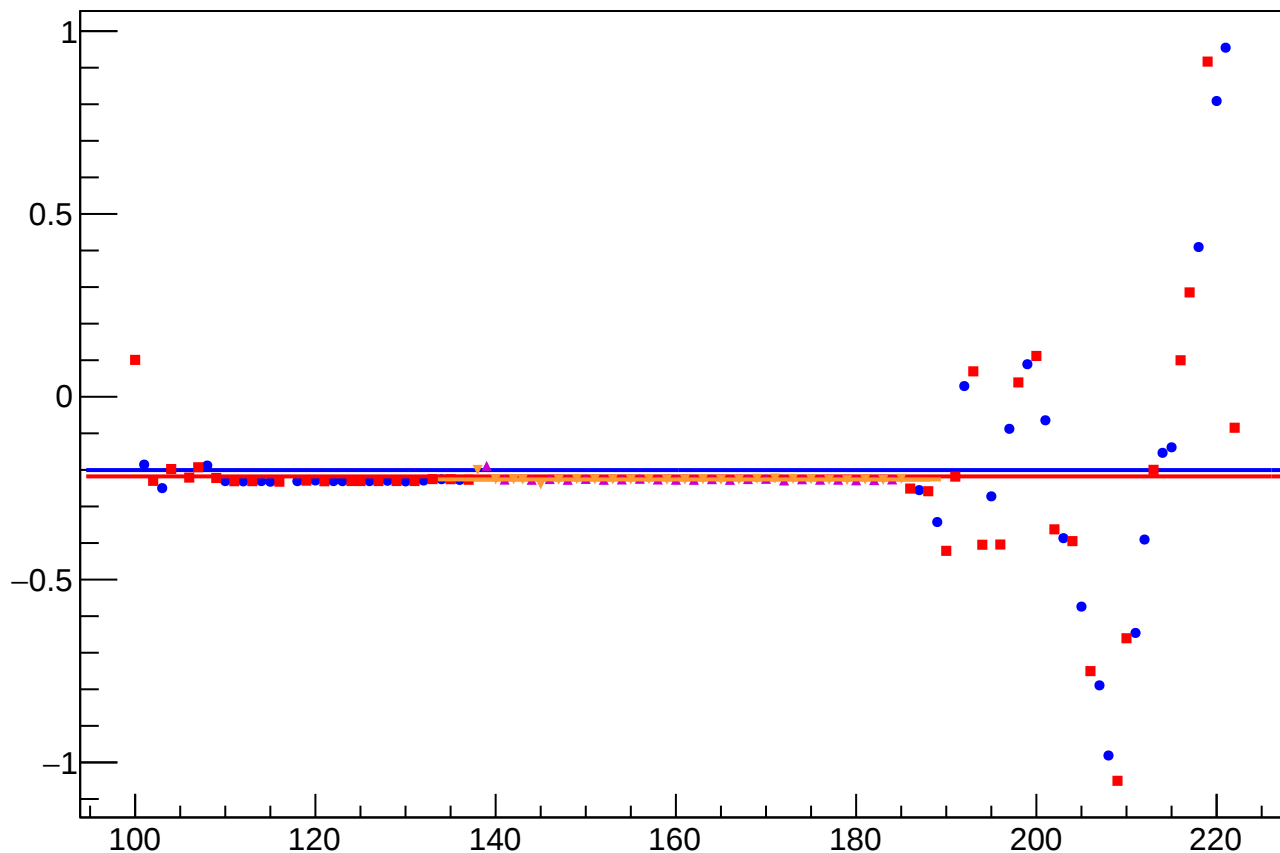
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 28270390.7/72

In: 0.011 $\pm$ 0.000 χ^2 /NDF:17863785.6/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:18442169.1/62

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 36306967.4/120

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 55629867224.8/34

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.218+/-0.000 χ^2/NDF : 47100628668.3/37

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

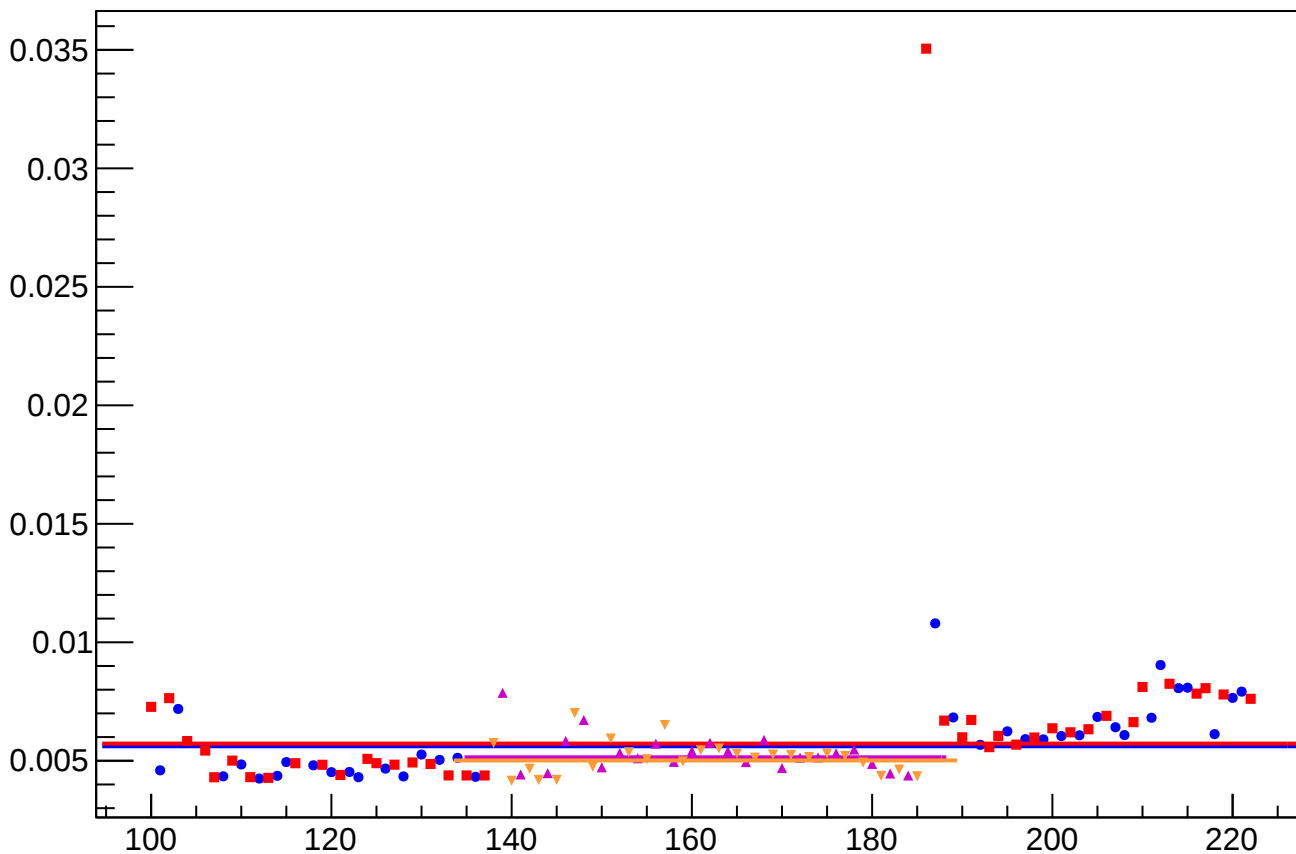
Right: -0.209+/-0.000 χ^2/NDF : 102812628528.6/72

In: -0.214+/-0.000 χ^2/NDF : 55830013770.8/57

Out: -0.222+/-0.000 χ^2/NDF : 47142838016.5/62

All: -0.218+/-0.000 χ^2/NDF : 103016481397.2

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1559308.5/34

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2075130.6/37

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

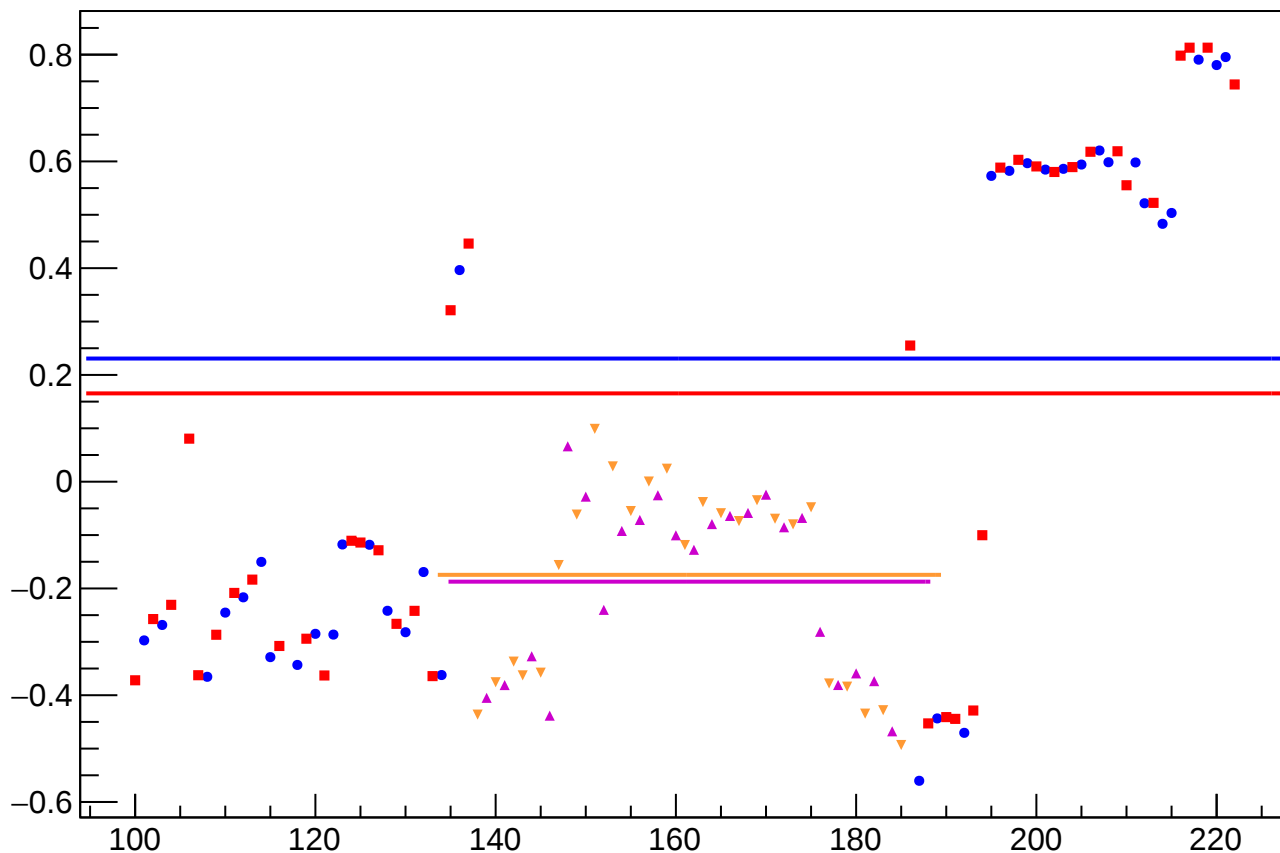
Right: 0.006+/-0.000 χ^2/NDF : 3641389.0/72

In: 0.005+/-0.000 χ^2/NDF : 2178709.9/57

Out: 0.005+/-0.000 χ^2/NDF : 2915386.4/62

All: 0.005+/-0.000 χ^2/NDF : 5095588.6/120

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.231+/-0.000

χ^2/NDF : 81059137395.0/34

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.197+/-0.000

χ^2/NDF : 172502768999.8/72

Right Out: 0.165+/-0.000

χ^2/NDF : 90584337117.2/37

In: -0.013+/-0.000

χ^2/NDF : 133795874151.0/57

Out: -0.032+/-0.000

χ^2/NDF : 136508332664.2/62

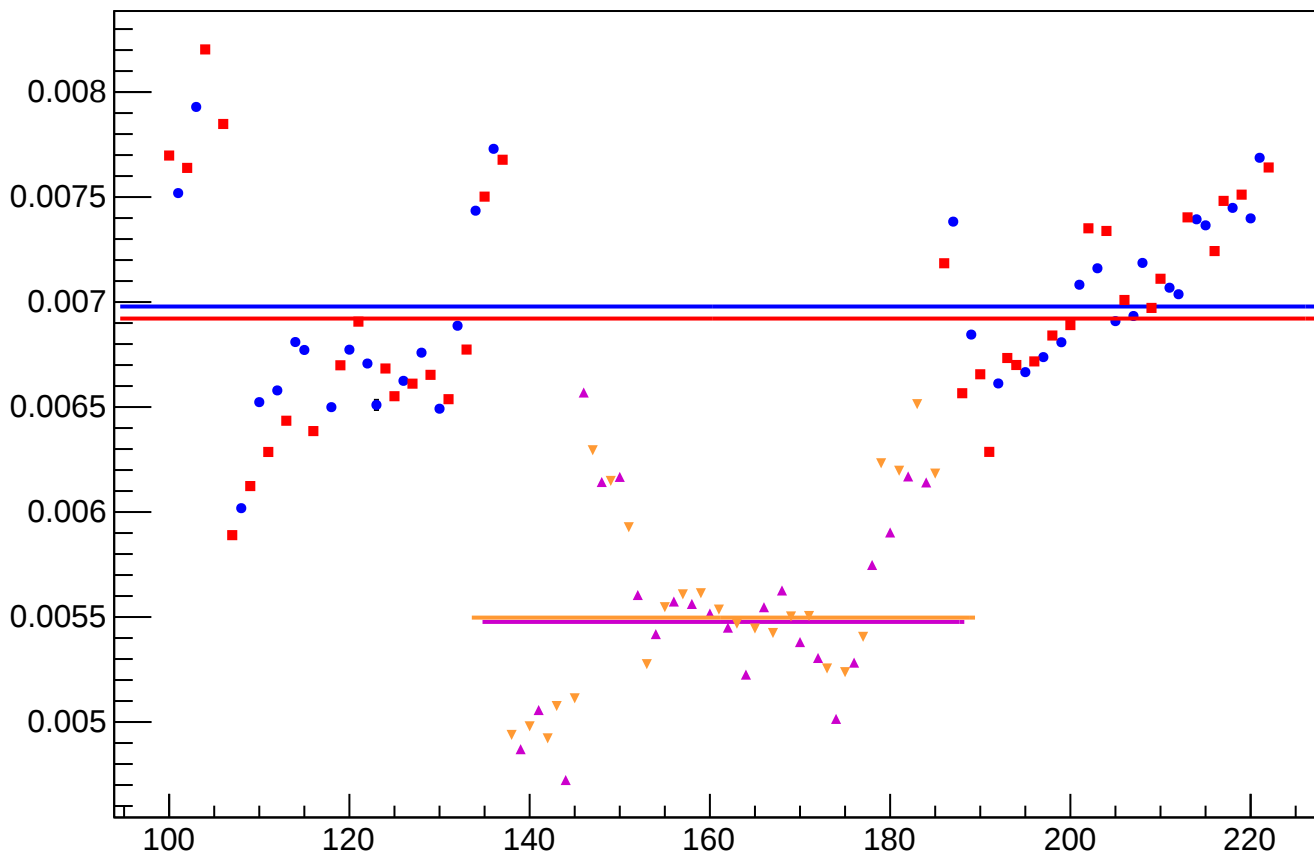
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.023+/-0.000

χ^2/NDF : 270491757474.9

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 125136.7/34

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 182277.6/37

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

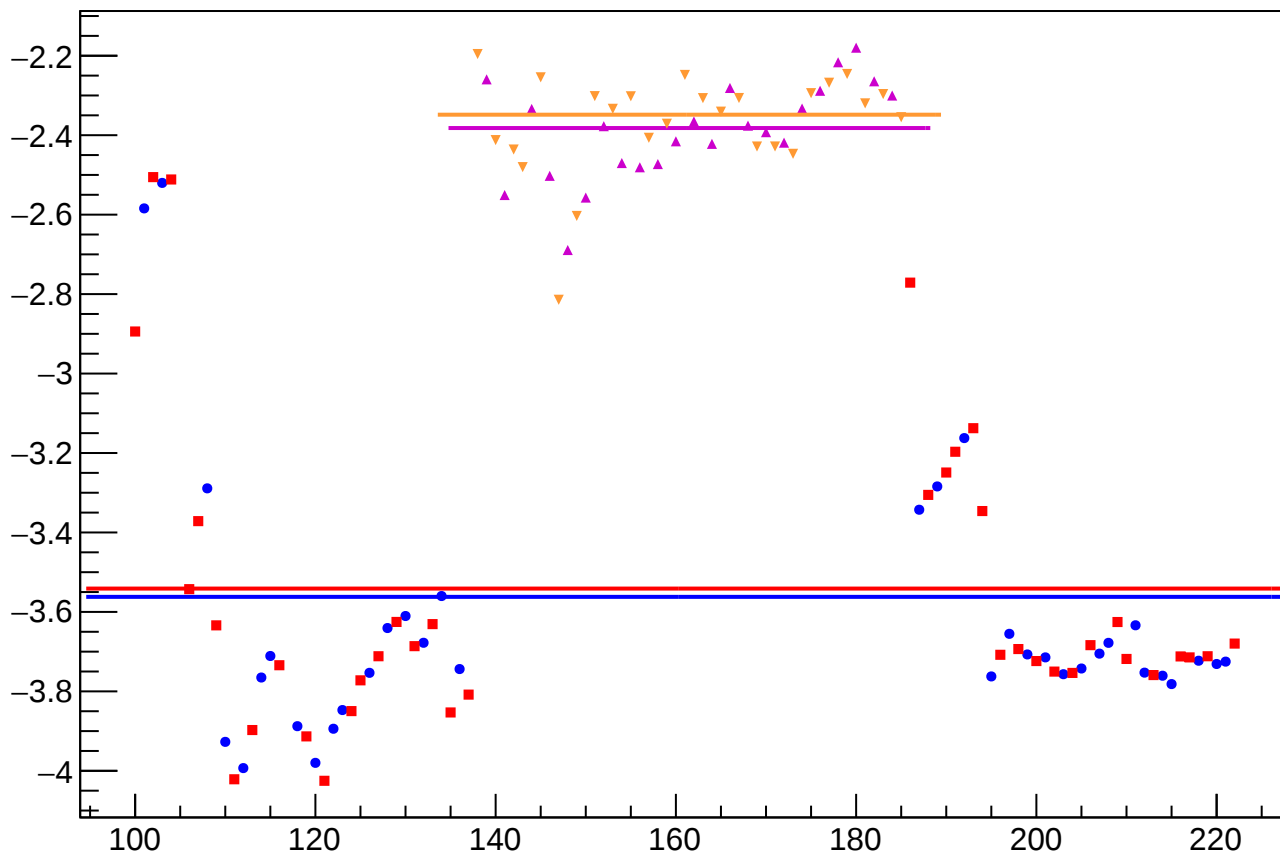
Right: 0.007+/-0.000 χ^2/NDF : 308739.4/72

In: 0.006+/-0.000 χ^2/NDF :1358280.4/57

Out: 0.006+/-0.000 χ^2/NDF :1360477.3/62

All: 0.006+/-0.000 χ^2/NDF : 2718886.6/120

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.562 ± 0.000 χ^2/NDF : 31037229135.4/34

Left Out: -2.348 ± 0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.541 ± 0.000 χ^2/NDF : 31832579155.5/37

Left In: -2.382 ± 0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365 ± 0.000 χ^2/NDF : 4600738143.2/47

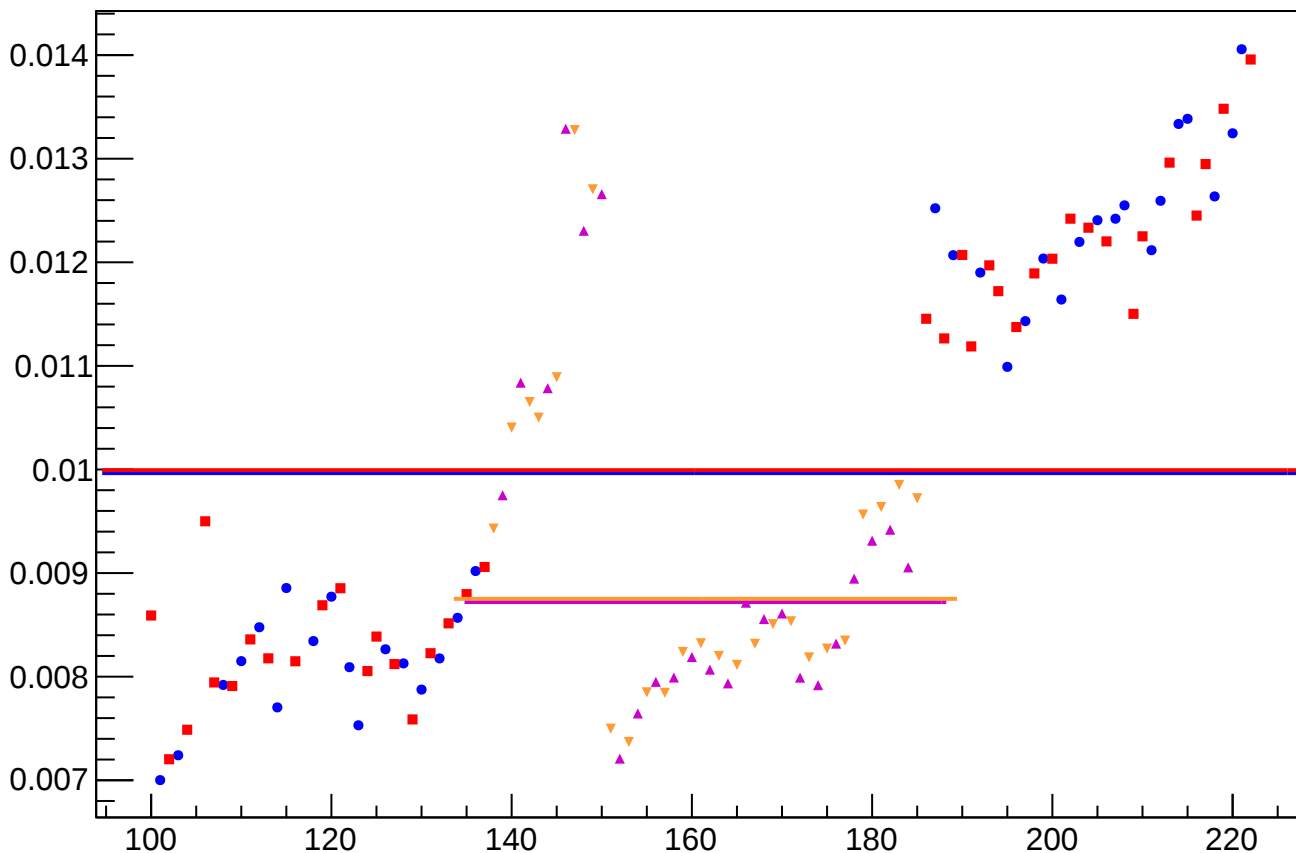
Right: -3.551 ± 0.000 χ^2/NDF : 62910368589.6/72

In: -2.927 ± 0.000 χ^2/NDF : 170525930730.1/57

Out: -2.895 ± 0.000 χ^2/NDF : 180666550468.1/62

All: -2.911 ± 0.000 χ^2/NDF : 351396295218.6

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1776484.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1679123.5/37

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

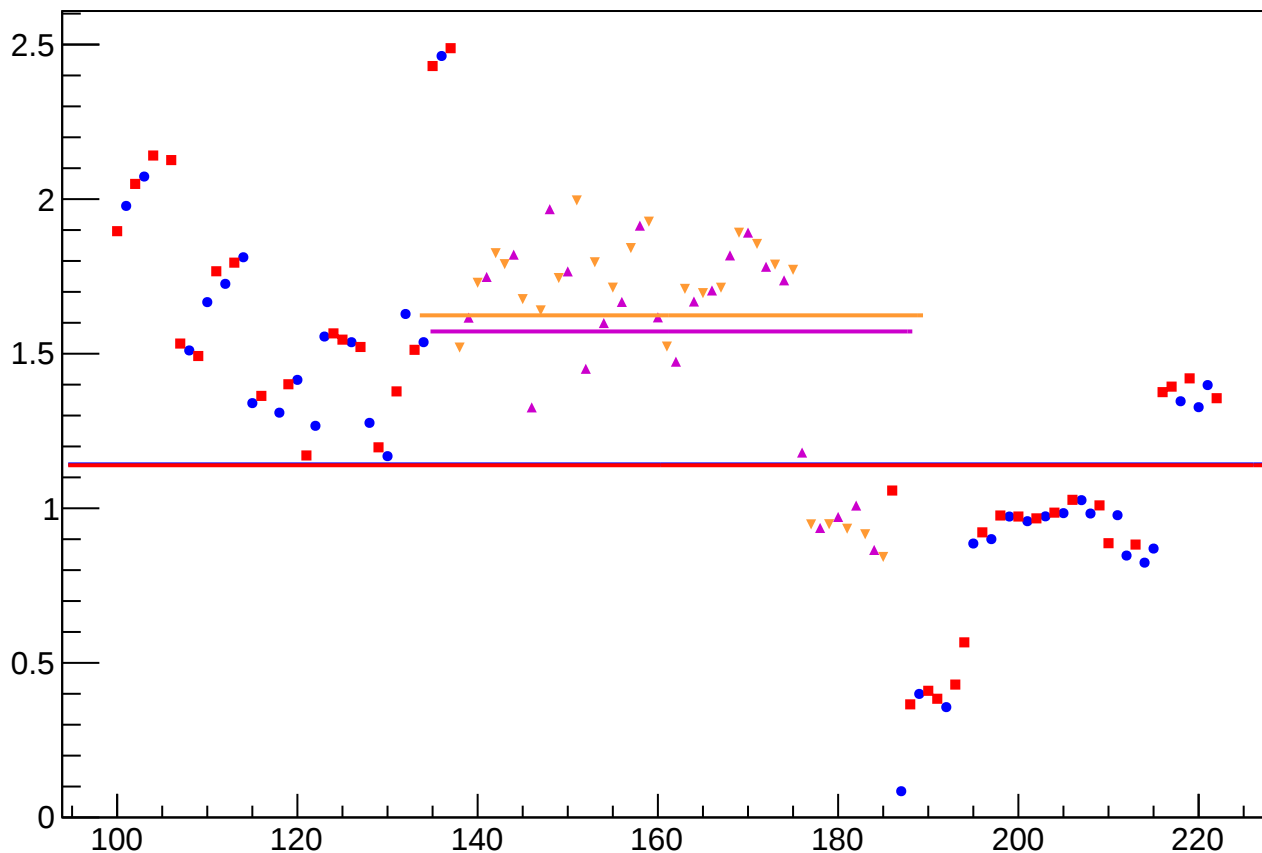
Right: 0.010+/-0.000 χ^2/NDF : 3455753.9/72

In: 0.009+/-0.000 χ^2/NDF :2829505.1/57

Out: 0.009+/-0.000 χ^2/NDF :2660649.4/62

All: 0.009+/-0.000 χ^2/NDF : 5490416.2/120

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.142 $\pm$ 0.000 χ^2 /NDF: 29350959218.1/34

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF:16631112386.4/24

Right Out: 1.139 $\pm$ 0.000 χ^2 /NDF: 34284404572.9/37

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

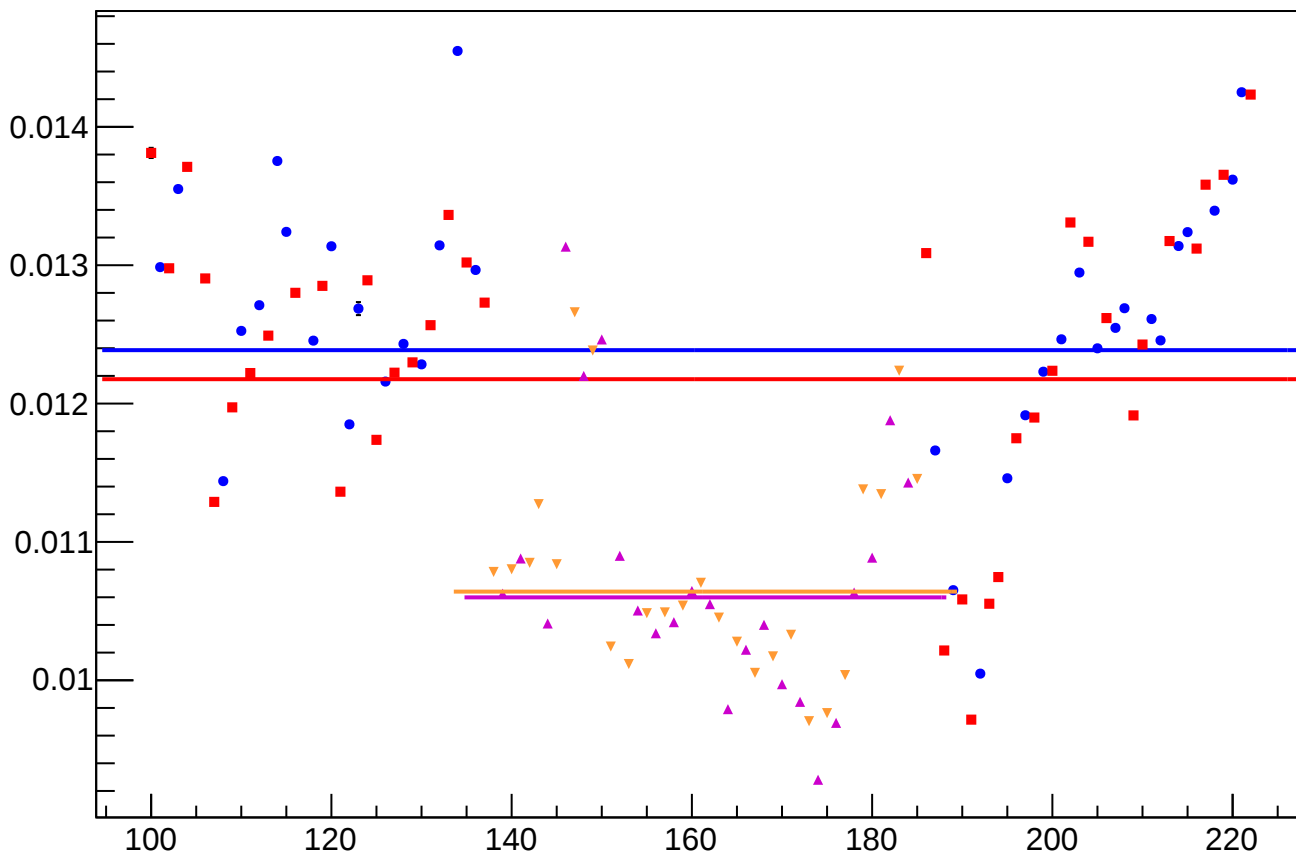
Right: 1.141 $\pm$ 0.000 χ^2 /NDF: 63635844584.9/72

In: 1.376 $\pm$ 0.000 χ^2 /NDF:56020534892.4/57

Out: 1.401 $\pm$ 0.000 χ^2 /NDF:67777519563.1/62

All: 1.389 $\pm$ 0.000 χ^2 /NDF: 123885728921.4

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 225588.2/34

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 329707.6/37

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

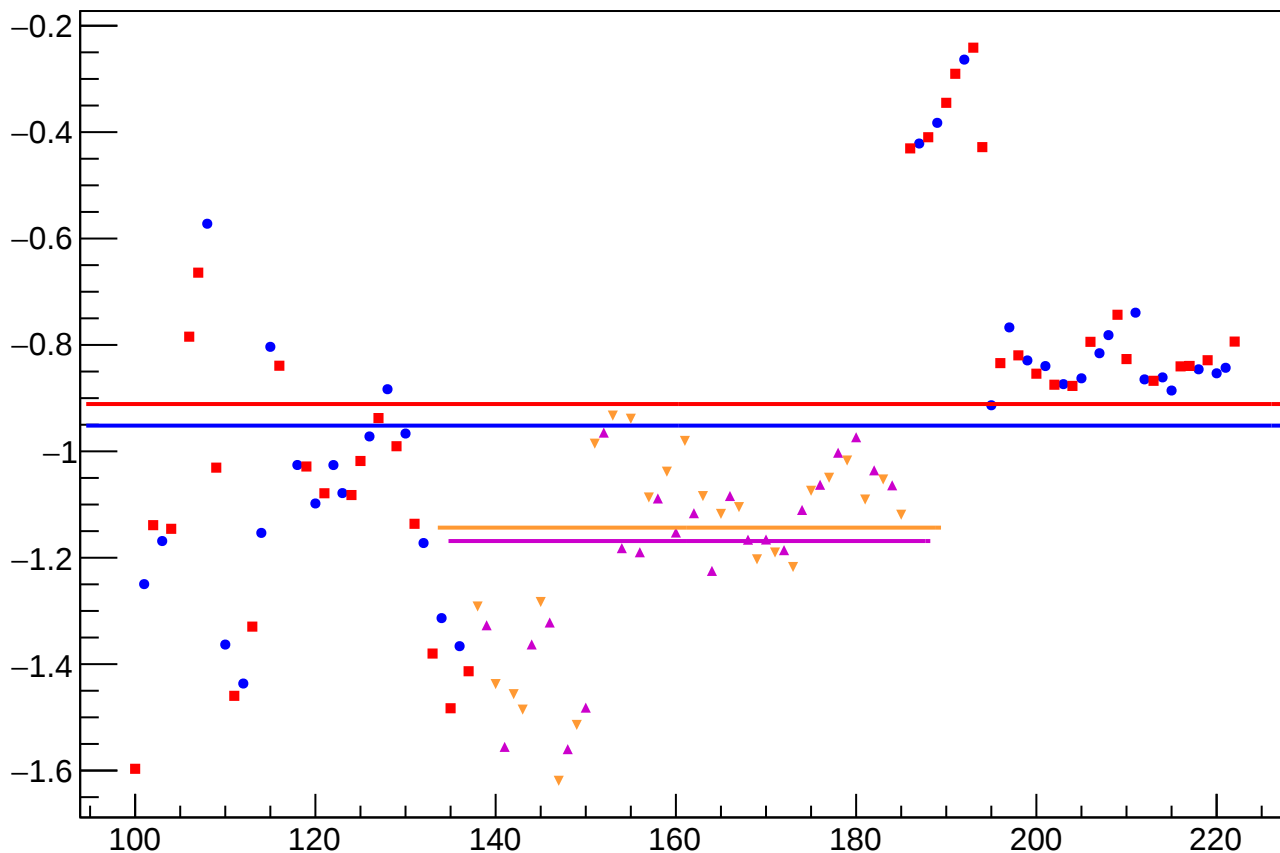
Right: 0.012+/-0.000 χ^2/NDF : 560931.4/72

In: 0.011+/-0.000 χ^2/NDF :859690.4/57

Out: 0.011+/-0.000 χ^2/NDF :827561.5/62

All: 0.011+/-0.000 χ^2/NDF : 1688476.3/120

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.952+/-0.000 χ^2/NDF : 11608331042.4/34

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.911+/-0.000 χ^2/NDF : 16219342624.9/37

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

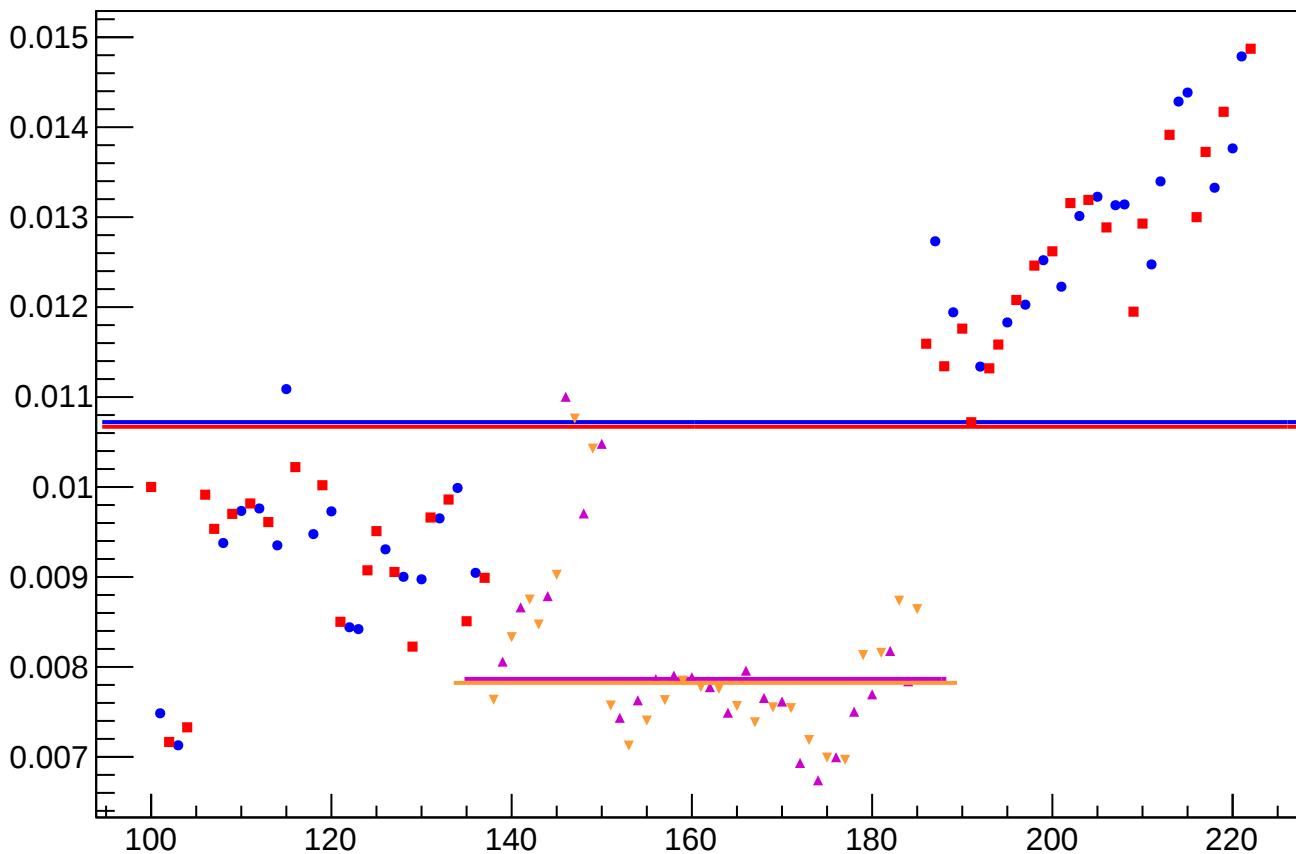
Right: -0.931+/-0.000 χ^2/NDF : 27960712511.5/72

In: -1.087+/-0.000 χ^2/NDF : 22603637391.7/57

Out: -1.057+/-0.000 χ^2/NDF : 29824732426.3/62

All: -1.072+/-0.000 χ^2/NDF : 52626631549.4/72

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1536171.5/34

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1478317.7/37

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

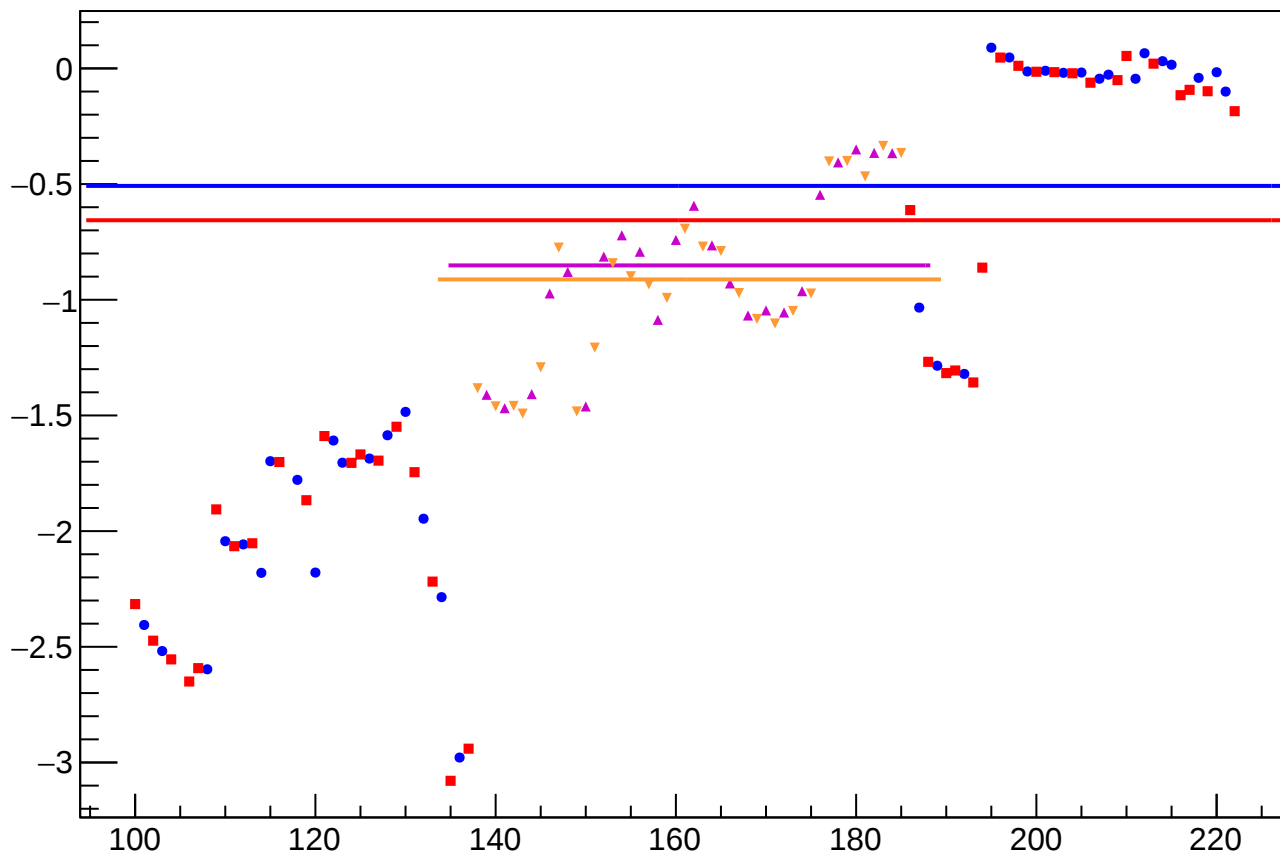
Right: 0.011+/-0.000 χ^2/NDF : 3014920.9/72

In: 0.009+/-0.000 χ^2/NDF :3520267.5/57

Out: 0.009+/-0.000 χ^2/NDF :3505400.1/62

All: 0.009+/-0.000 χ^2/NDF : 7026980.4/120

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.508 $\pm$ 0.000

χ^2 /NDF: 421230813807.9/34

Left: -0.882 $\pm$ 0.000

χ^2 /NDF: 96285672564.6/47

Left Out: -0.912 $\pm$ 0.000

χ^2 /NDF: 49039425818.1/24

Right: -0.585 $\pm$ 0.000

χ^2 /NDF: 877075788692.9/72

Right Out: -0.656 $\pm$ 0.000

χ^2 /NDF: 449832854949.0/37

In: -0.664 $\pm$ 0.000

χ^2 /NDF: 495672887198.5/57

Out: -0.768 $\pm$ 0.000

χ^2 /NDF: 515240730210.8/62

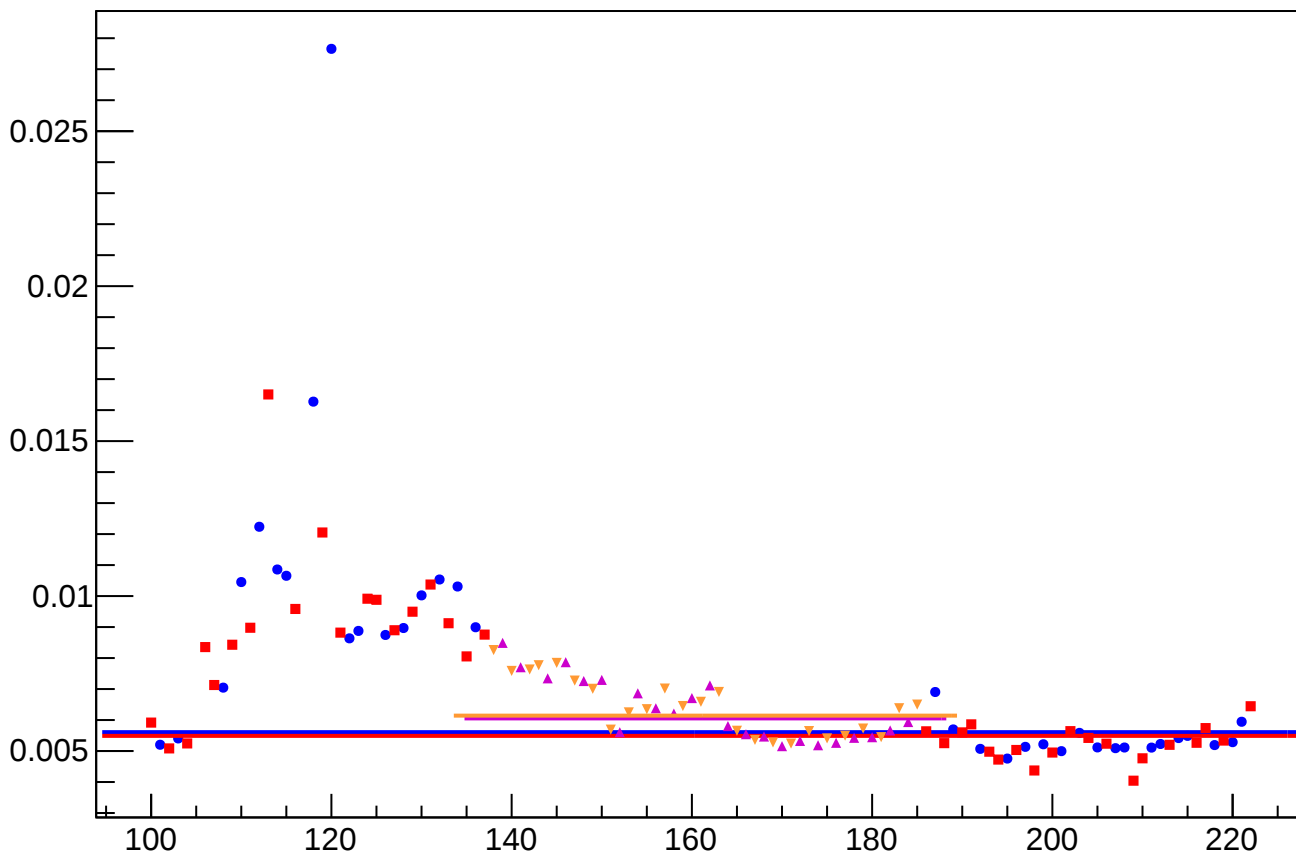
Left In: -0.851 $\pm$ 0.000

χ^2 /NDF: 46438446008.2/22

All: -0.718 $\pm$ 0.000

χ^2 /NDF: 1016263724458

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2079350.9/34

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2169867.9/37

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

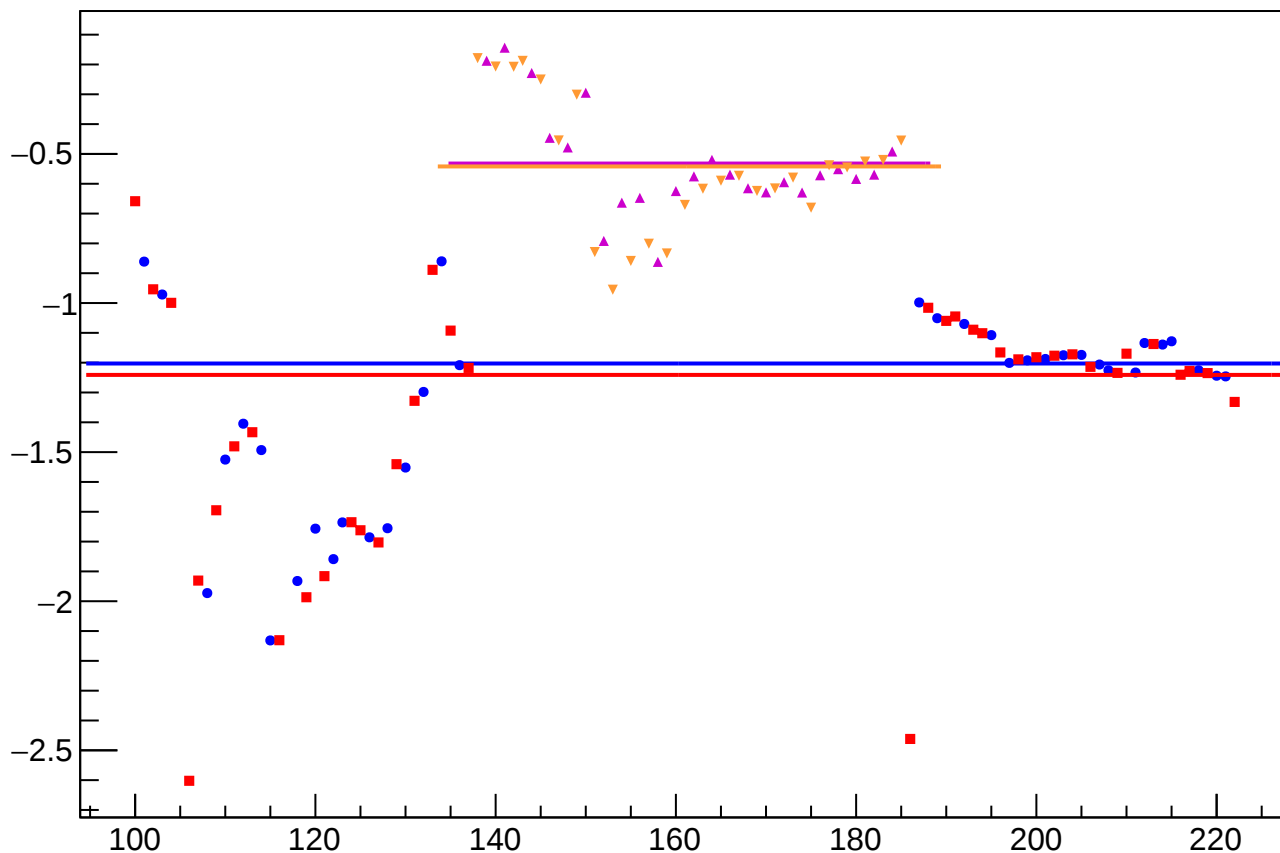
Right: 0.006+/-0.000 χ^2/NDF : 4257076.0/72

In: 0.006+/-0.000 χ^2/NDF : 2870242.5/57

Out: 0.006+/-0.000 χ^2/NDF : 3021123.9/62

All: 0.006+/-0.000 χ^2/NDF : 5892628.2/120

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.203+/-0.000 χ^2/NDF : 27077742320.9/34

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.241+/-0.000 χ^2/NDF : 79743801050.7/37

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

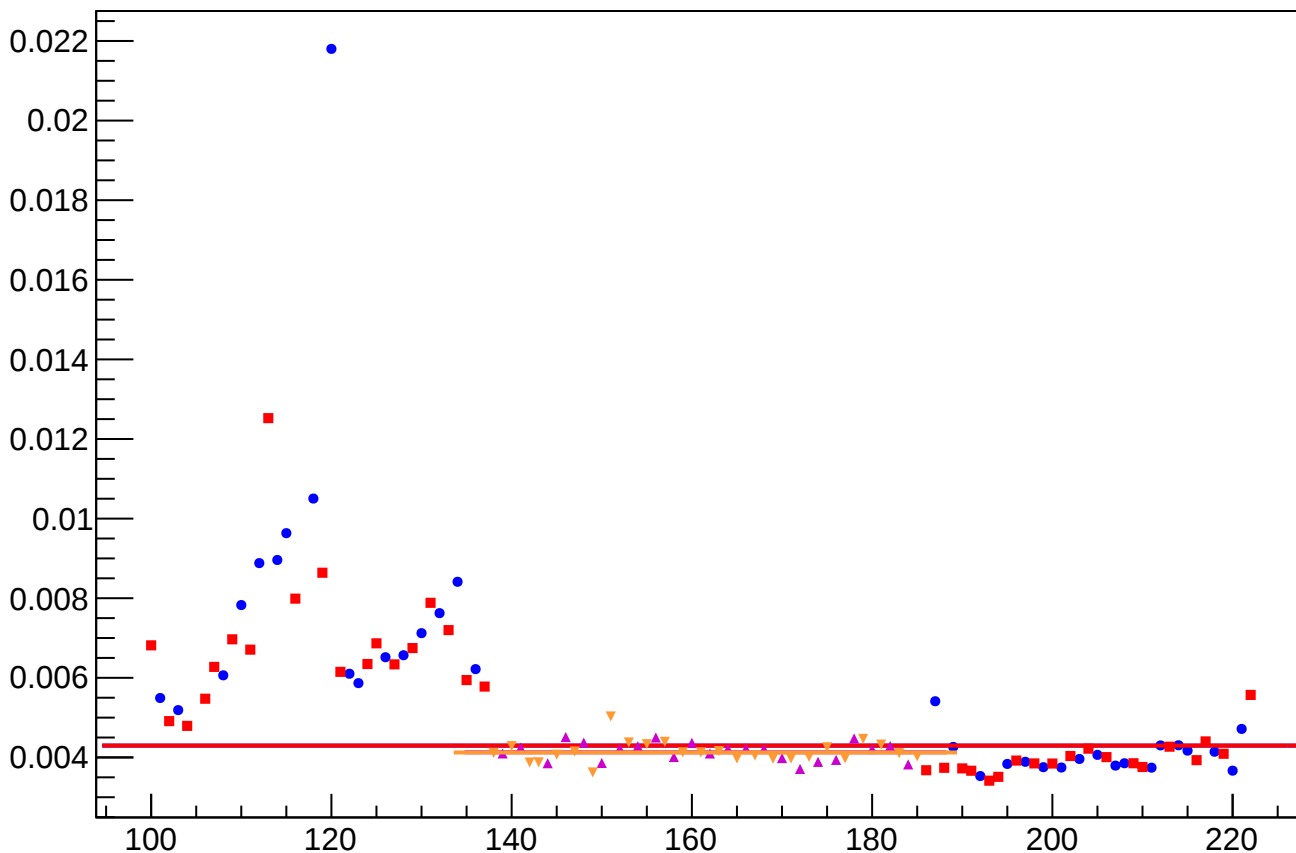
Right: -1.222+/-0.000 χ^2/NDF : 107483981673.2/72

In: -0.858+/-0.000 χ^2/NDF : 262384588701.7/57

Out: -0.880+/-0.000 χ^2/NDF : 361287600092.9/62

All: -0.869+/-0.000 χ^2/NDF : 624114892909.3

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2124983.7/34

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1979972.6/37

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

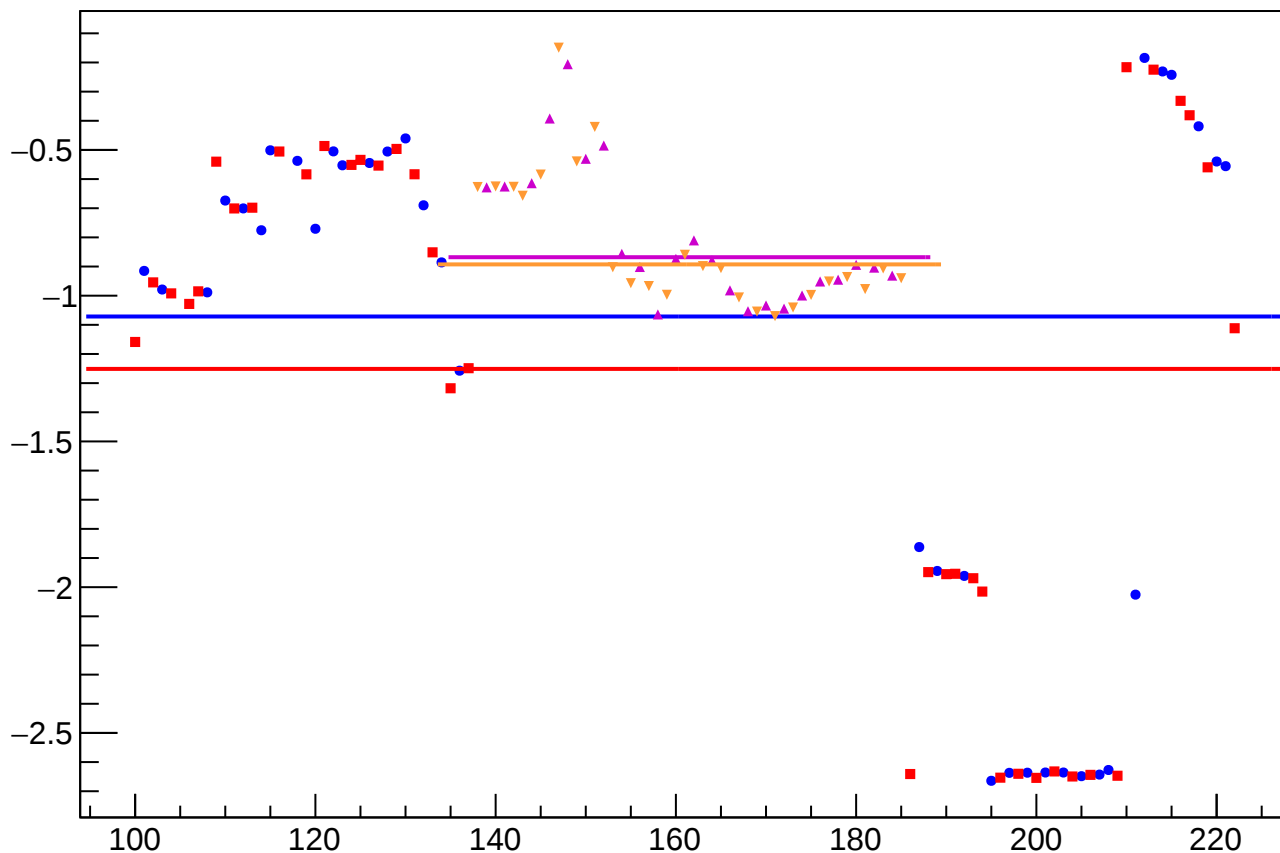
Right: 0.004+/-0.000 χ^2/NDF : 4104956.5/72

In: 0.004+/-0.000 χ^2/NDF :2243537.7/57

Out: 0.004+/-0.000 χ^2/NDF :2121722.9/62

All: 0.004+/-0.000 χ^2/NDF : 4365276.3/120

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.071+/-0.000

χ^2/NDF : 590552296098.5/34

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right: -1.170+/-0.000

χ^2/NDF : 1305735016622.9/7

Right Out: -1.251+/-0.000

χ^2/NDF : 701045877328.2/37

In: -0.953+/-0.000

χ^2/NDF : 653639629496.0/57

Out: -1.059+/-0.000

χ^2/NDF : 808786359022.4/62

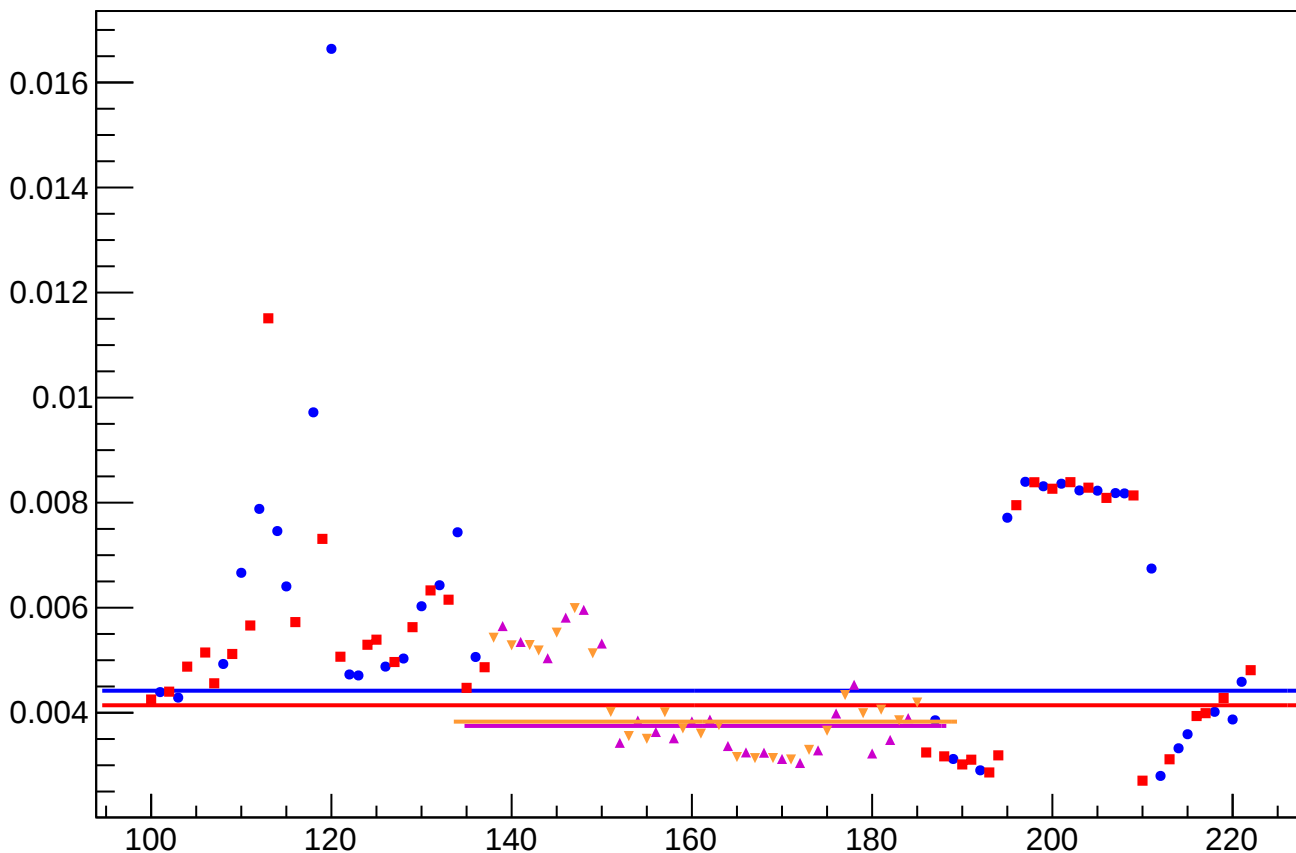
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.008+/-0.000

χ^2/NDF : 1473624501578

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 5114416.7/34

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4751591.9/37

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

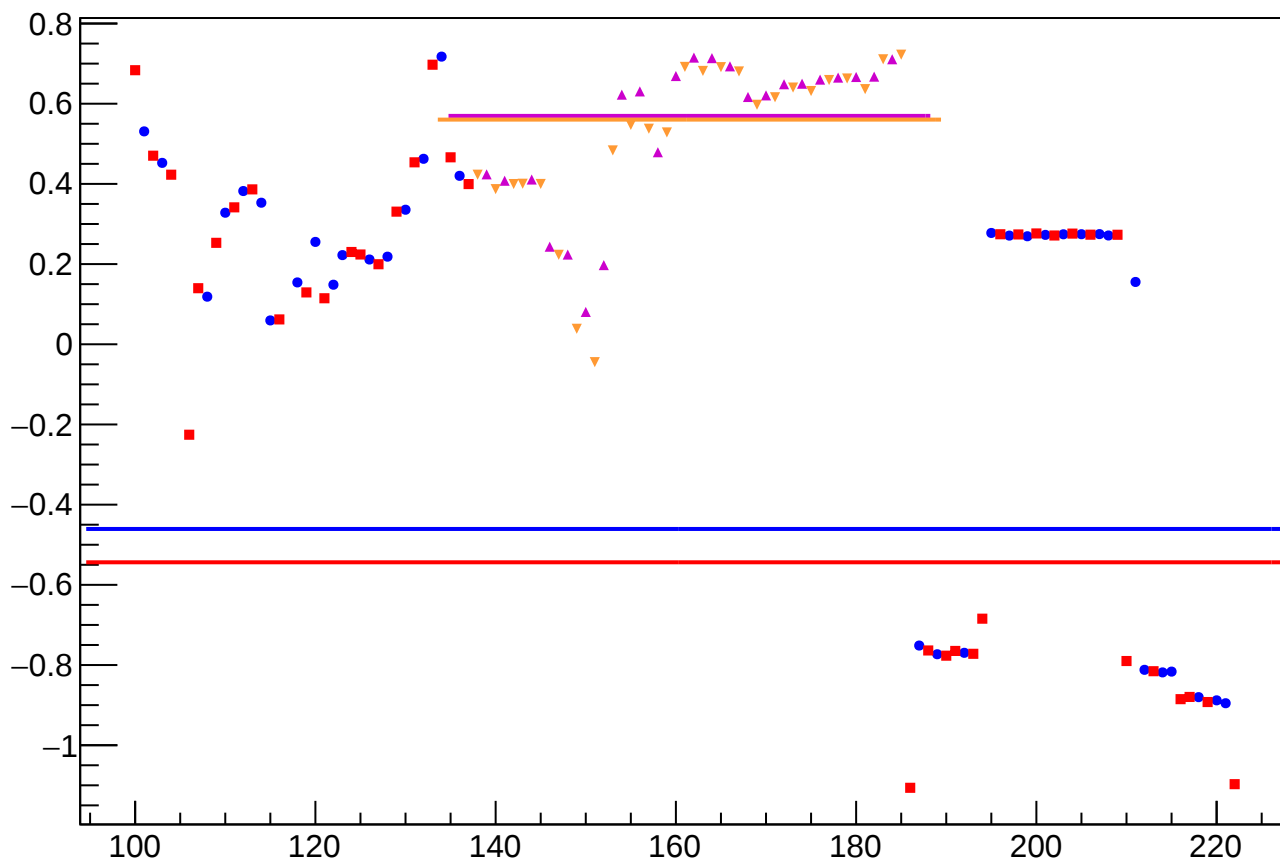
Right: 0.004+/-0.000 χ^2/NDF : 9933257.9/72

In: 0.004+/-0.000 χ^2/NDF :6821018.4/57

Out: 0.004+/-0.000 χ^2/NDF :6032461.9/62

All: 0.004+/-0.000 χ^2/NDF : 12859181.4/120

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.461 ± 0.000 $\chi^2/\text{NDF}: 591082543398.8/34$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.544 ± 0.000 $\chi^2/\text{NDF}: 647819369822.4/37$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

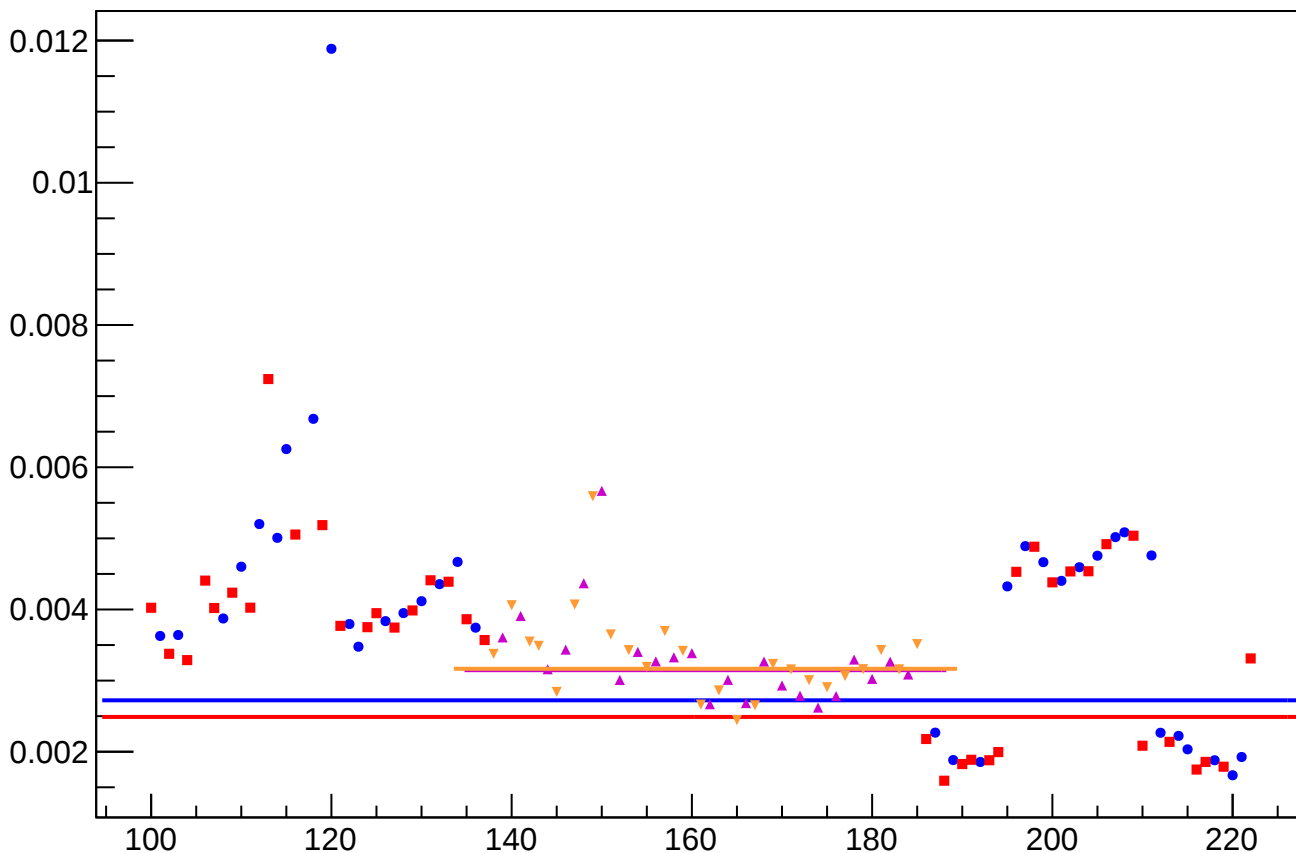
Right: -0.507 ± 0.000 $\chi^2/\text{NDF}: 1246664349920.6/7$

In: -0.012 ± 0.000 $\chi^2/\text{NDF}: 1567388949281.3/57$

Out: -0.112 ± 0.000 $\chi^2/\text{NDF}: 1895408117635.0/62$

All: -0.066 ± 0.000 $\chi^2/\text{NDF}: 3482003592914$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5921169.3/34

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5895894.2/37

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

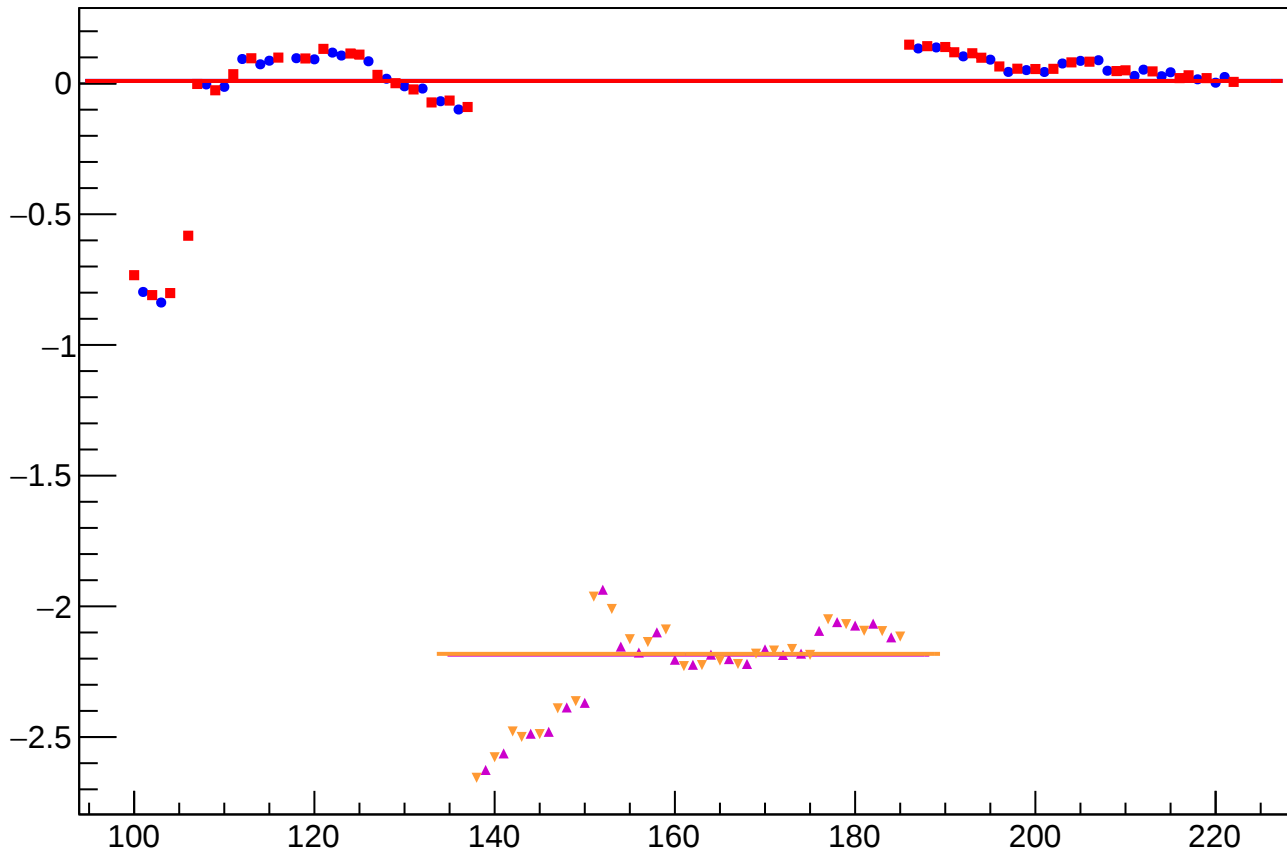
Right: 0.003+/-0.000 χ^2/NDF : 11939719.8/72

In: 0.003+/-0.000 χ^2/NDF : 6953246.5/57

Out: 0.003+/-0.000 χ^2/NDF : 7544551.3/62

All: 0.003+/-0.000 χ^2/NDF : 14588284.6/120

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 5918579208.3/34

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: 0.010+/-0.000 χ^2/NDF : 6987738803.8/37

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

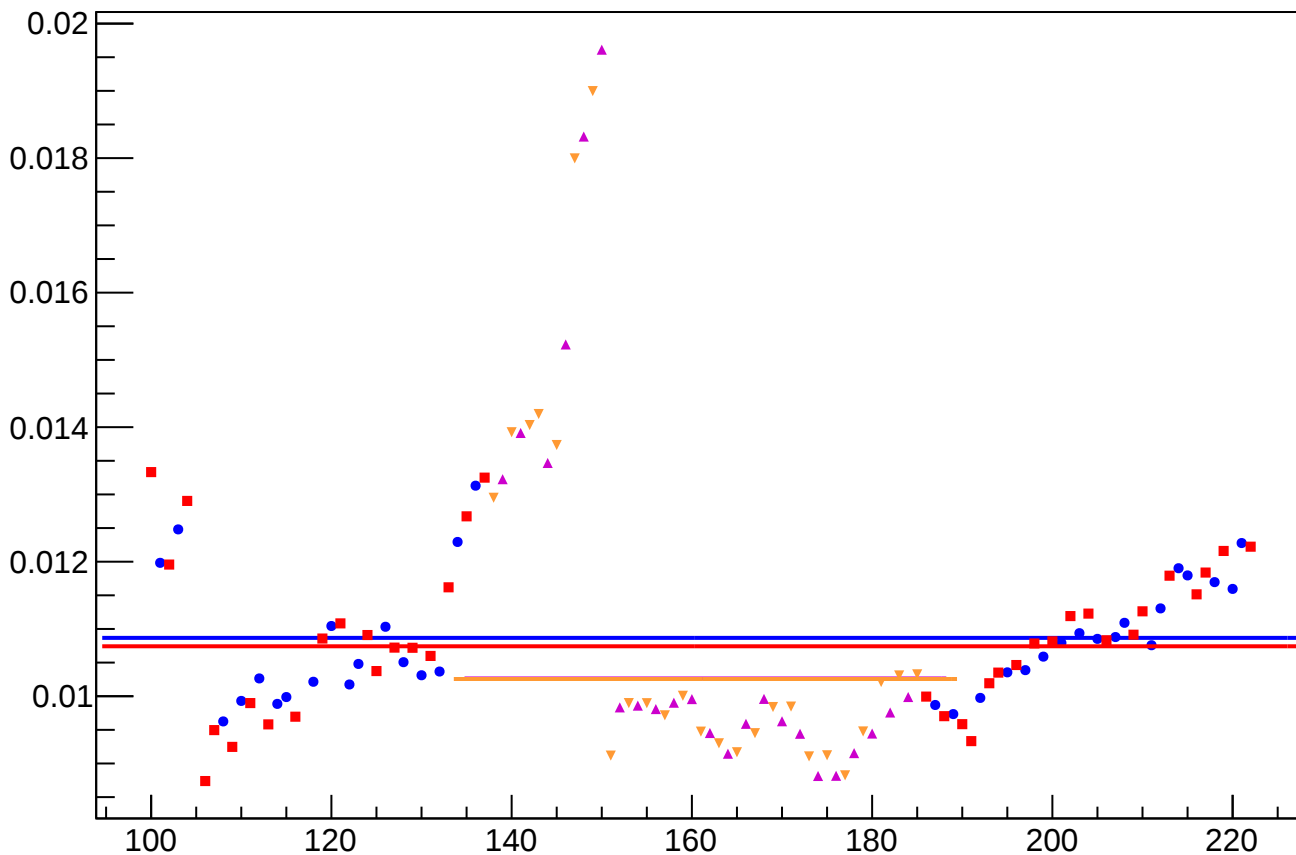
Right: 0.010+/-0.000 χ^2/NDF : 12906332110.2/72

In: -1.069+/-0.000 χ^2/NDF : 394646870252.2/57

Out: -1.067+/-0.000 χ^2/NDF : 420895132865.2/62

All: -1.068+/-0.000 χ^2/NDF : 815543011912.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 211370.9/34

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 320210.5/37

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

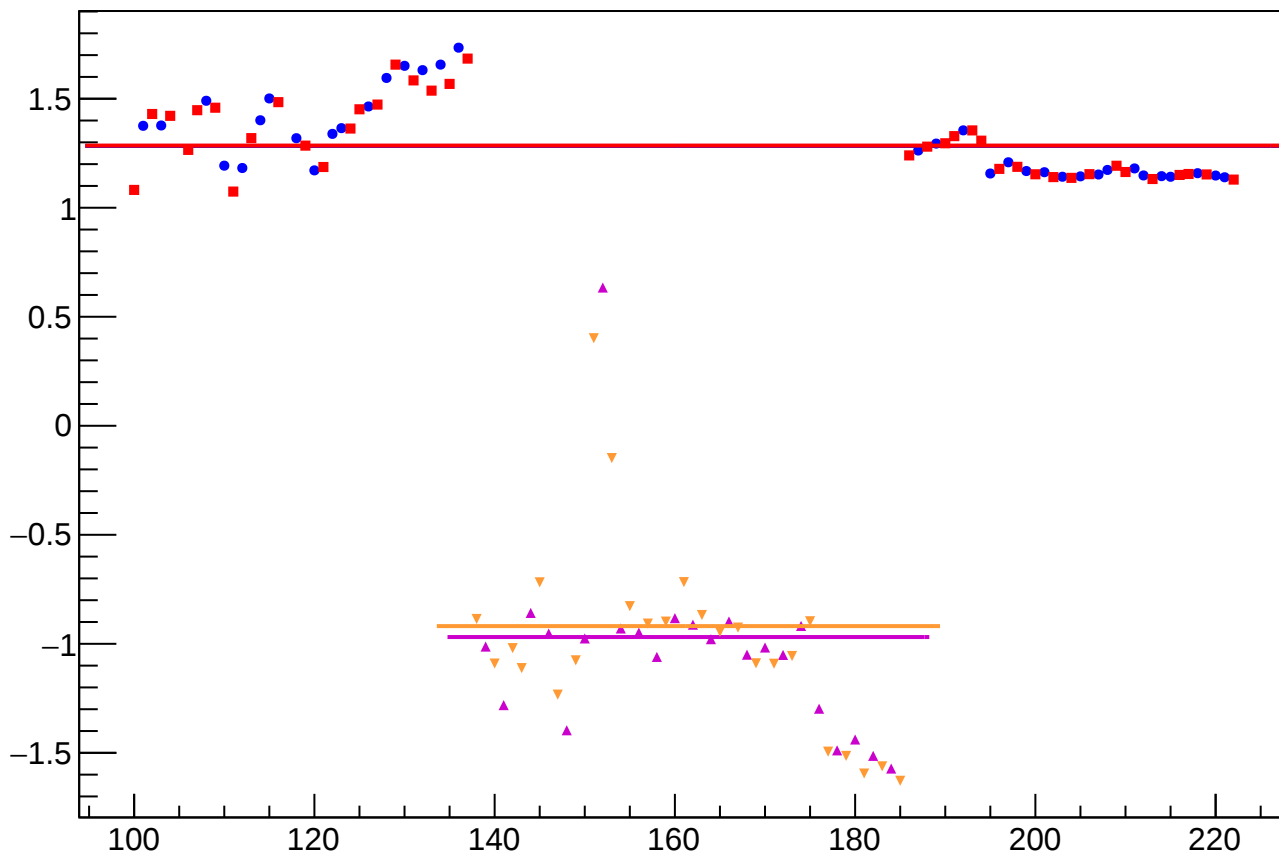
Right: 0.011+/-0.000 χ^2/NDF : 534211.0/72

In: 0.011+/-0.000 χ^2/NDF :1609818.2/57

Out: 0.011+/-0.000 χ^2/NDF :1631200.9/62

All: 0.011+/-0.000 χ^2/NDF : 3242521.4/120

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.283+/-0.000

χ^2/NDF : 9060874966.8/34

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.284+/-0.000

χ^2/NDF : 16406164906.7/72

Right Out: 1.285+/-0.000

χ^2/NDF : 7344884468.6/37

In: 0.305+/-0.000

χ^2/NDF : 751106141611.9/57

Out: 0.337+/-0.000

χ^2/NDF : 760803117652.2/62

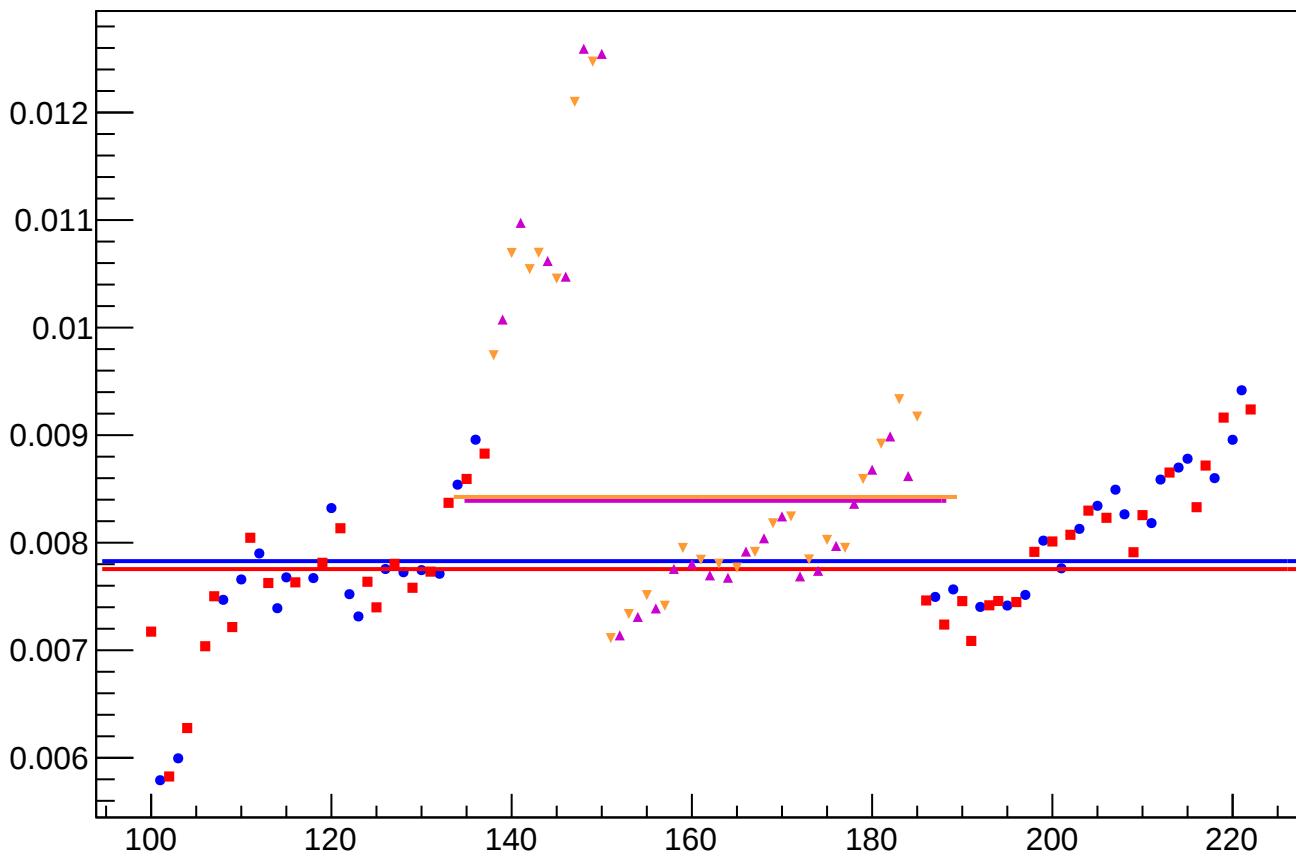
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.322+/-0.000

χ^2/NDF : 1512198700769.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 430453.6/34

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 377842.6/37

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

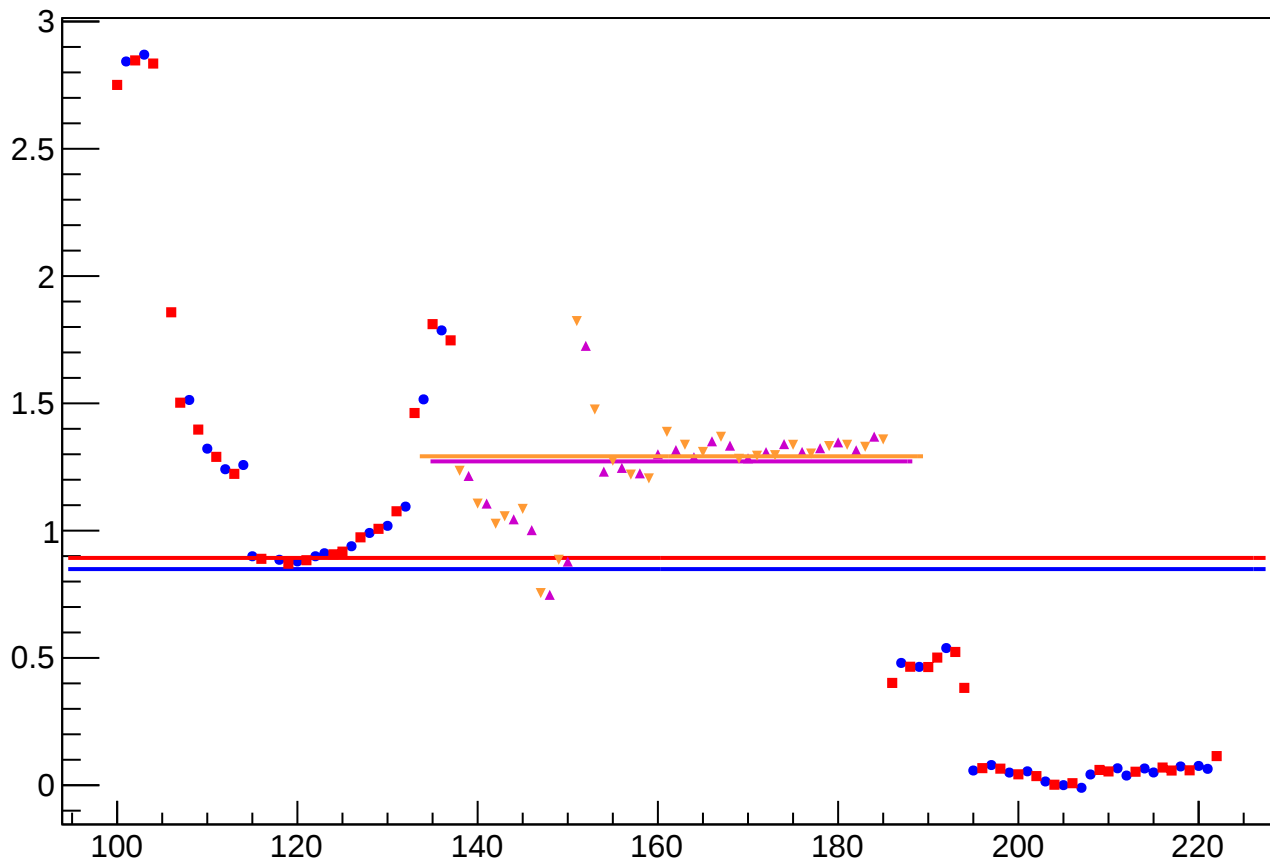
Right: 0.008+/-0.000 χ^2/NDF : 810063.3/72

In: 0.008+/-0.000 χ^2/NDF : 1355534.4/57

Out: 0.008+/-0.000 χ^2/NDF : 1299504.3/62

All: 0.008+/-0.000 χ^2/NDF : 2655517.8/120

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.849 $\pm$ 0.000 χ^2/NDF : 151144888273.1/34

Left Out: 1.292 $\pm$ 0.000 χ^2/NDF :9305298695.5/24

Right Out: 0.893 $\pm$ 0.000 χ^2/NDF : 146866103592.7/37

Left In: 1.272 $\pm$ 0.000 χ^2/NDF :7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2/NDF : 16930321584.4/47

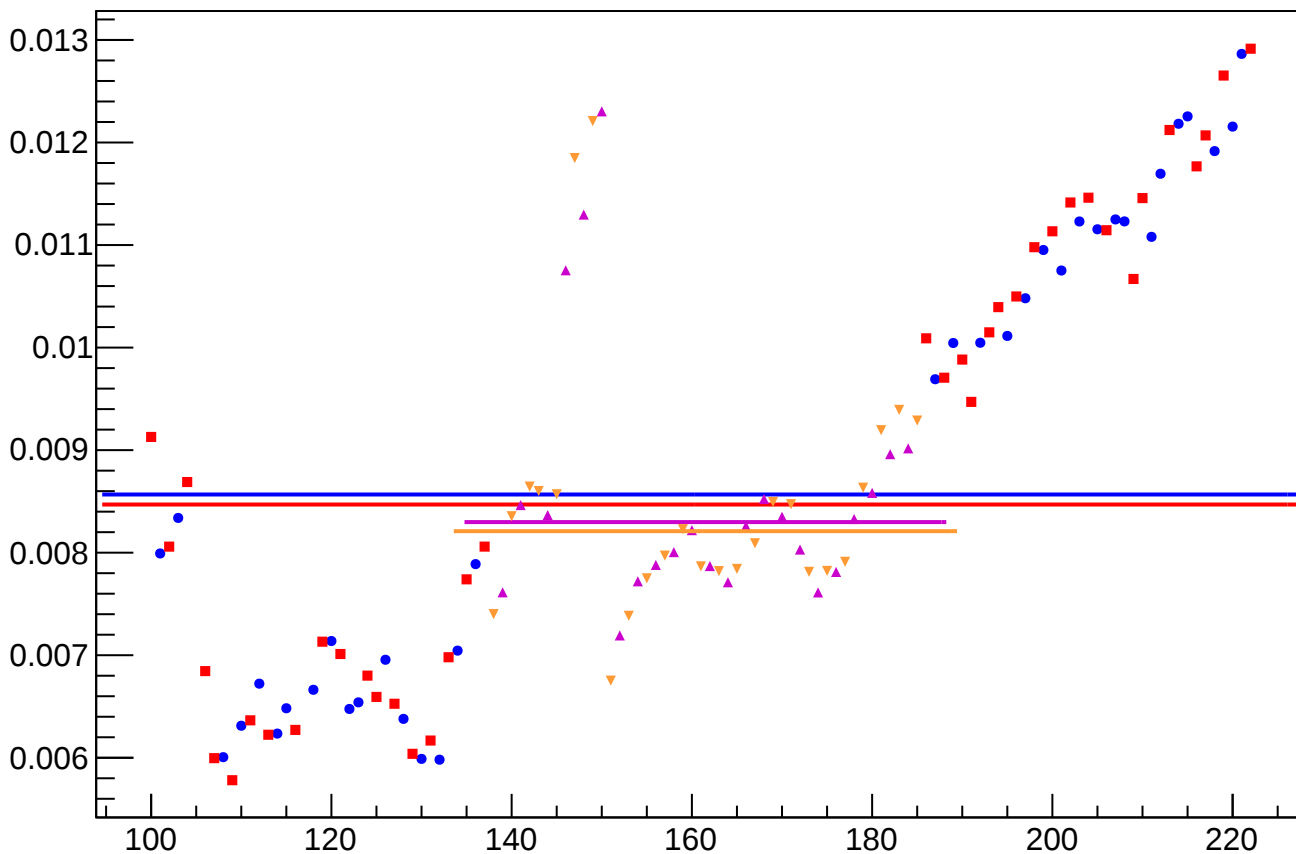
Right: 0.872 $\pm$ 0.000 χ^2/NDF : 298255555475.8/72

In: 1.059 $\pm$ 0.000 χ^2/NDF :180624495085.3/57

Out: 1.092 $\pm$ 0.000 χ^2/NDF :177134876175.5/62

All: 1.076 $\pm$ 0.000 χ^2/NDF : 358035451239.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2516815.0/34

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2723190.0/37

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

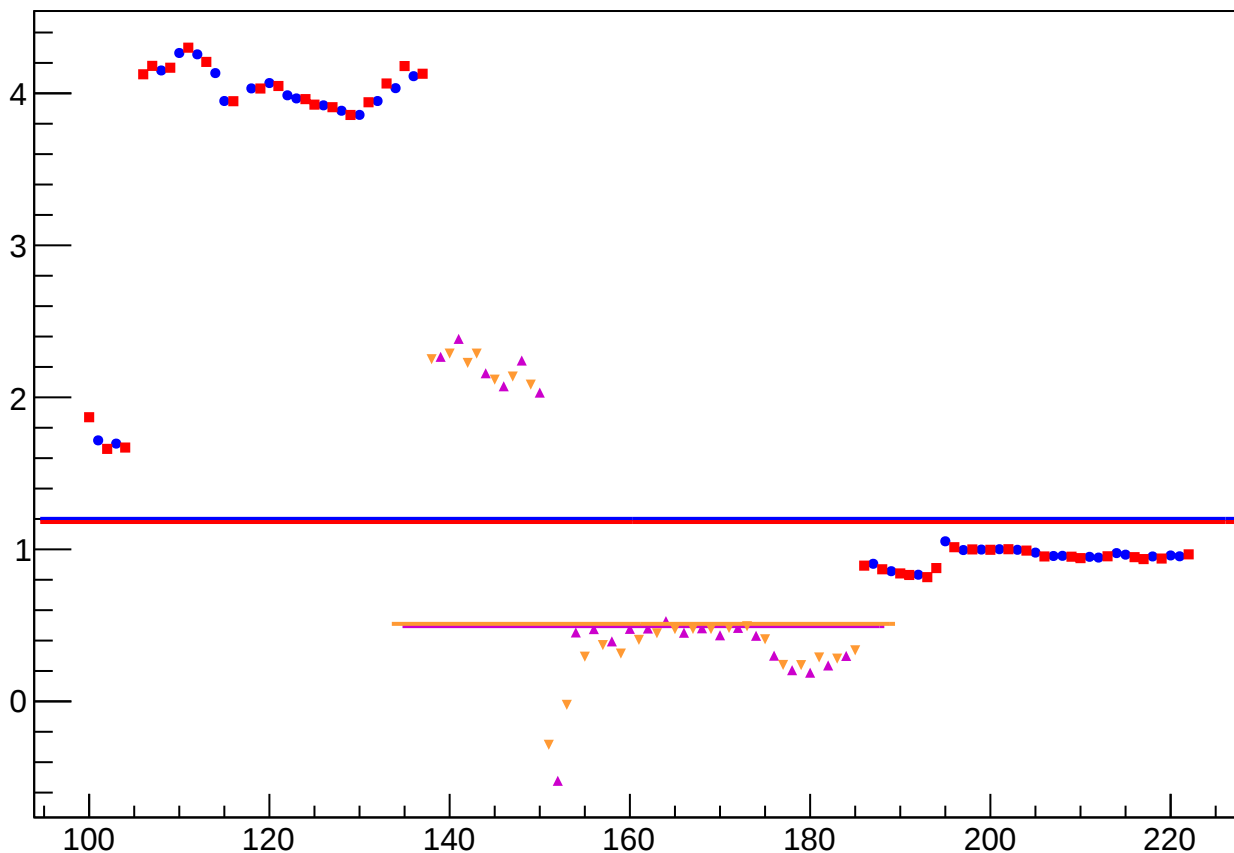
Right: 0.009+/-0.000 χ^2/NDF : 5242440.3/72

In: 0.008+/-0.000 χ^2/NDF : 2996565.9/57

Out: 0.008+/-0.000 χ^2/NDF : 3219832.1/62

All: 0.008+/-0.000 χ^2/NDF : 6220873.1/120

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.201+/-0.000 χ^2/NDF : 1554320135626.5/34

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.180+/-0.000 χ^2/NDF : 1745968672014.0/37

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

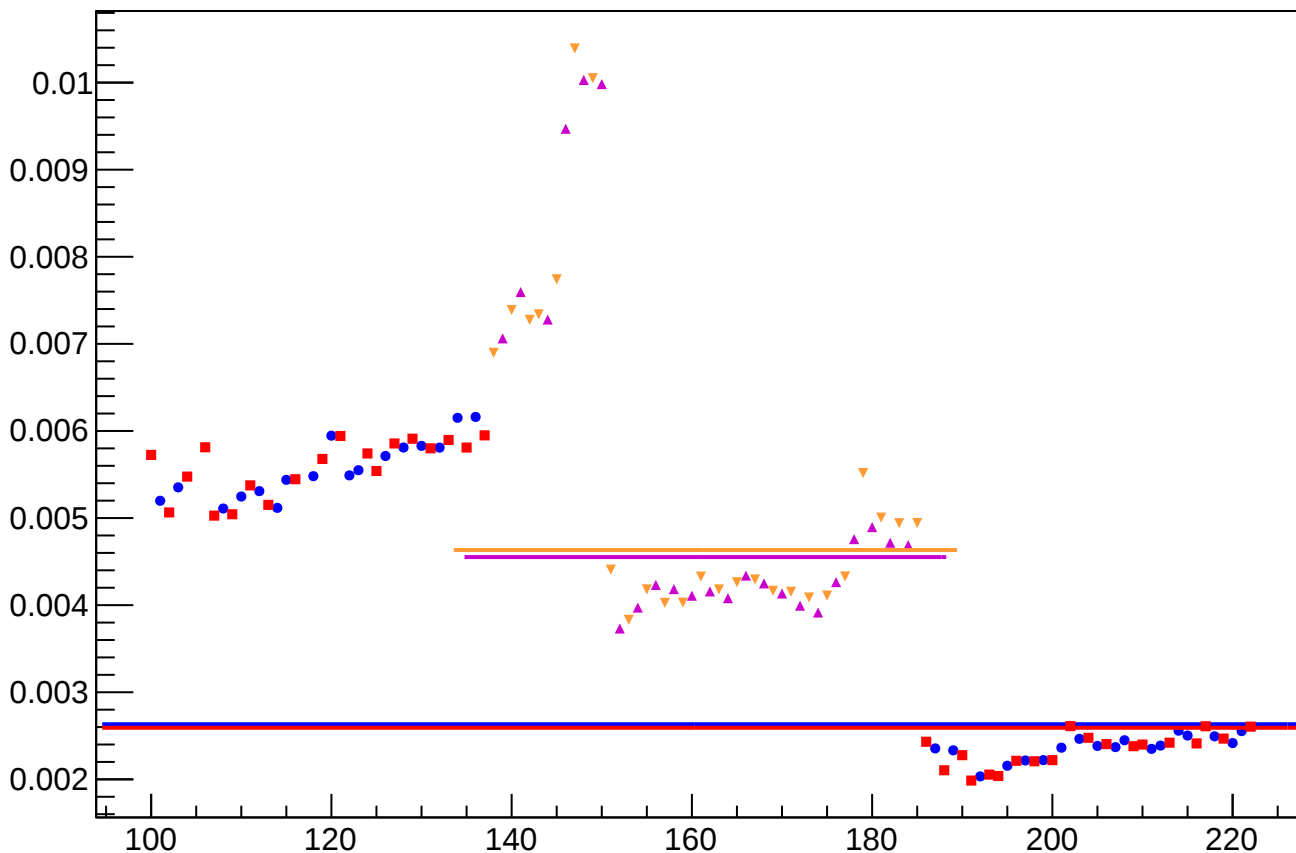
Right: 1.190+/-0.000 χ^2/NDF : 3300818263898.8/72

In: 1.029+/-0.000 χ^2/NDF : 2108921101429.1/57

Out: 1.023+/-0.000 χ^2/NDF : 2287704442664.4/62

All: 1.026+/-0.000 χ^2/NDF : 4396689537788.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4210325.9/34

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4485742.4/37

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

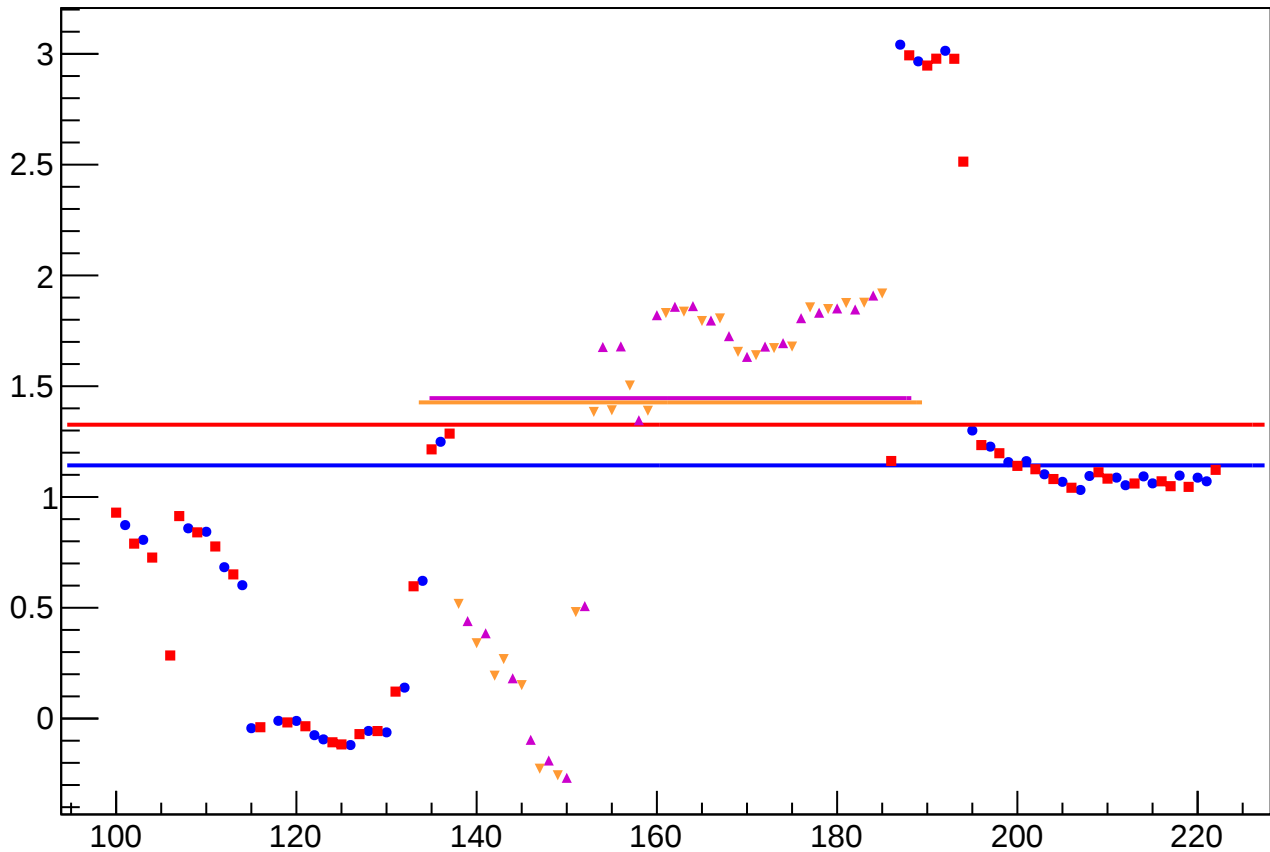
Right: 0.003+/-0.000 χ^2/NDF : 8700115.6/72

In: 0.003+/-0.000 χ^2/NDF :10675428.2/57

Out: 0.003+/-0.000 χ^2/NDF :11553694.4/62

All: 0.003+/-0.000 χ^2/NDF : 22231797.9/120

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.143+/-0.000 χ^2/NDF : 72935091861.3/34

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.326+/-0.000 χ^2/NDF : 102307337886.9/37

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

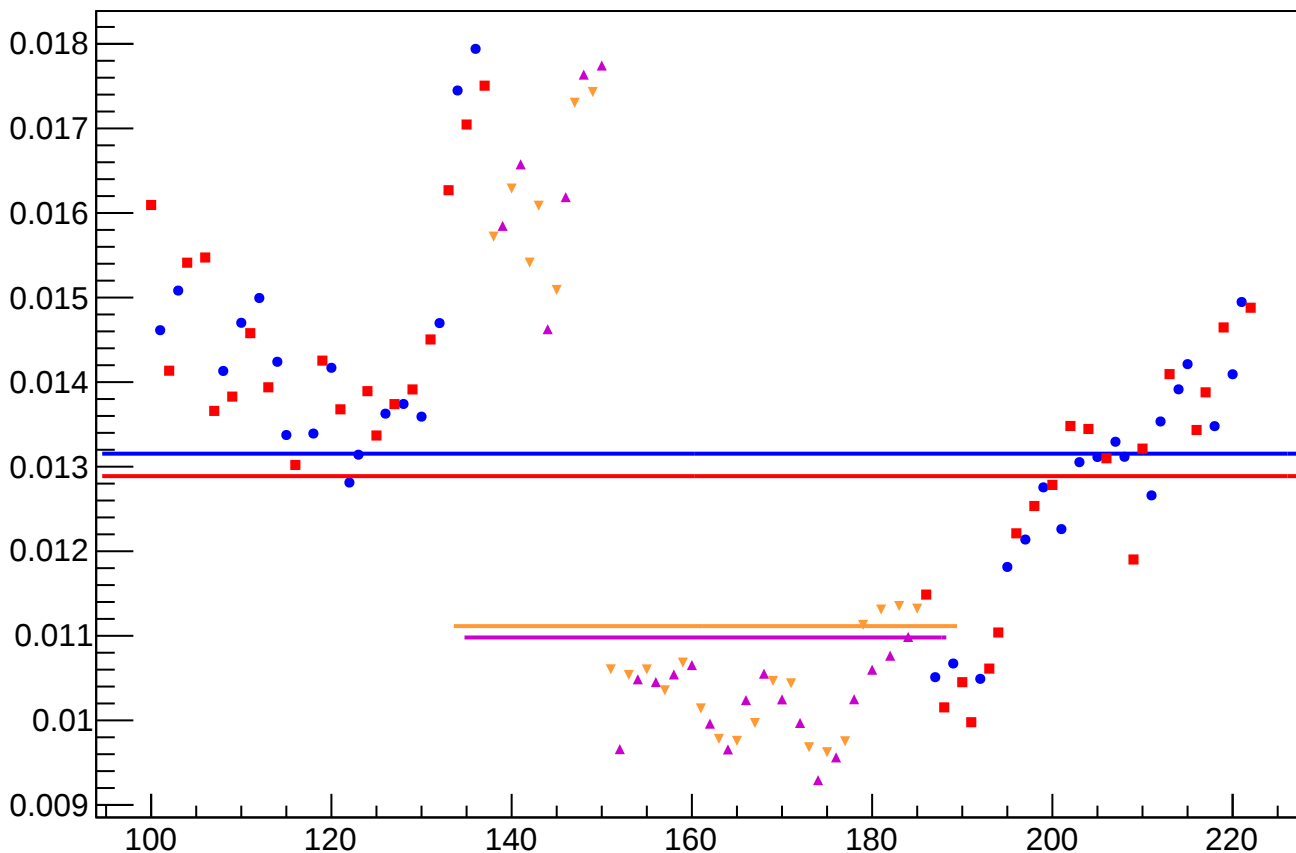
Right: 1.238+/-0.000 χ^2/NDF : 177164344478.6/72

In: 1.311+/-0.000 χ^2/NDF : 132305008788.4/57

Out: 1.381+/-0.000 χ^2/NDF : 152954091557.1/62

All: 1.347+/-0.000 χ^2/NDF : 285877515417.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 476312.1/34

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 652520.7/37

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

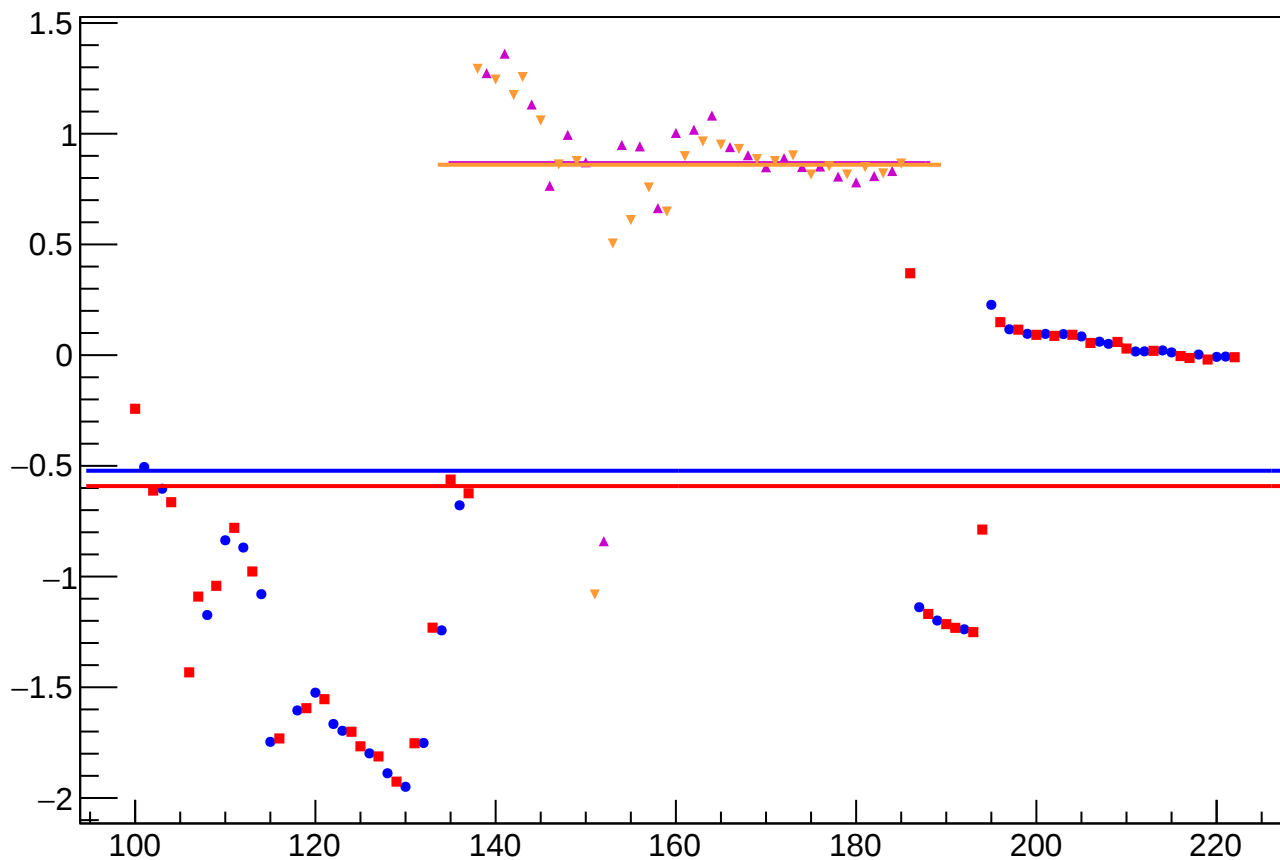
Right: 0.013+/-0.000 χ^2/NDF : 1136881.5/72

In: 0.012+/-0.000 χ^2/NDF :2317447.7/57

Out: 0.012+/-0.000 χ^2/NDF :2286787.1/62

All: 0.012+/-0.000 χ^2/NDF : 4604382.4/120

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.522+/-0.000

χ^2/NDF : 209691627622.2/34

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

Right: -0.558+/-0.000 χ^2/NDF : 410751419008.5/72

Left Out: 0.860+/-0.000

χ^2/NDF : 126335891175.4/24

In: 0.497+/-0.000 χ^2/NDF : 977714394401.0/57

Right Out: -0.591+/-0.000

χ^2/NDF : 199975298964.1/37

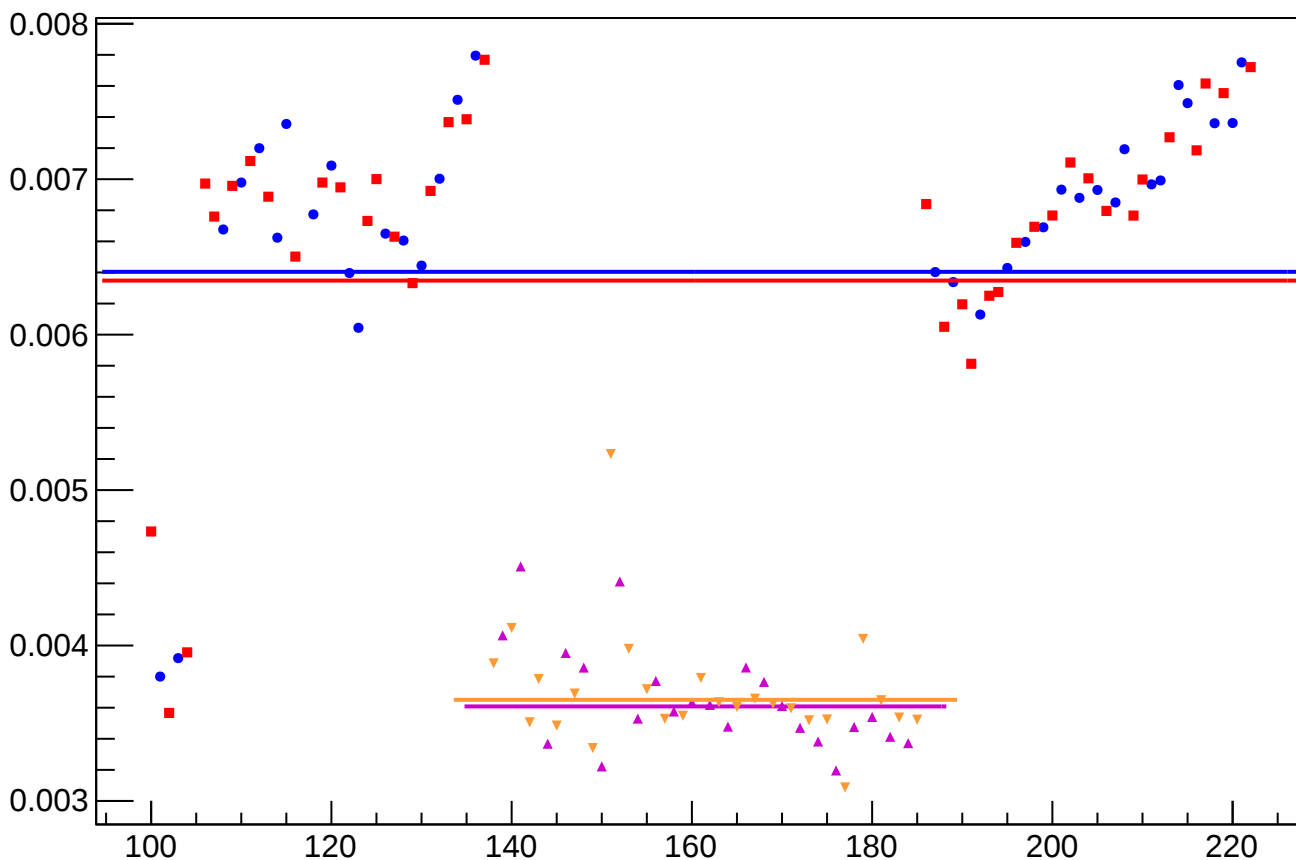
Out: 0.467+/-0.000 χ^2/NDF : 1041368251870.4/62

Left In: 0.867+/-0.000

χ^2/NDF : 147039402944.6/22

All: 0.481+/-0.000 χ^2/NDF : 2019843674009.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1224373.5/34

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1322282.3/37

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

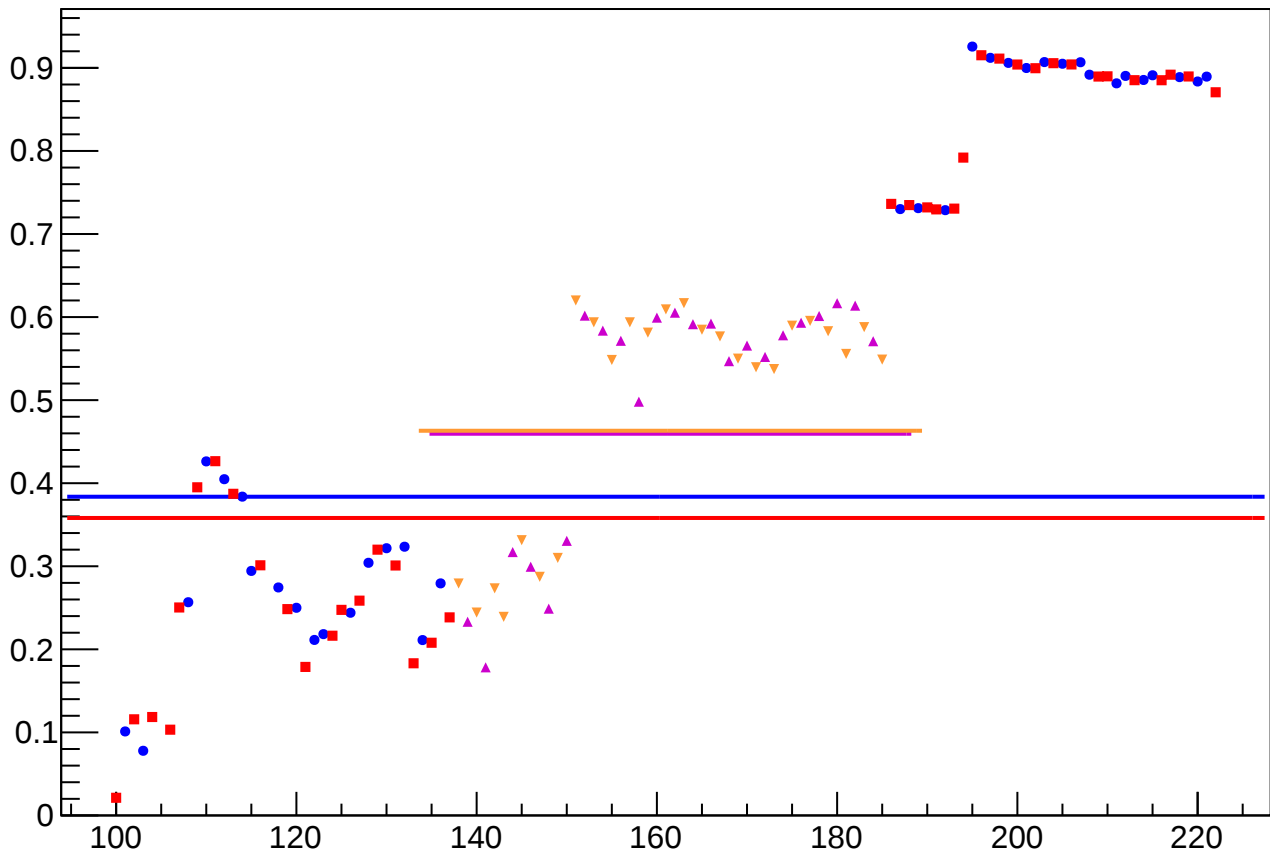
Right: 0.006+/-0.000 χ^2/NDF : 2548089.5/72

In: 0.004+/-0.000 χ^2/NDF :6482331.9/57

Out: 0.004+/-0.000 χ^2/NDF :6498112.3/62

All: 0.004+/-0.000 χ^2/NDF : 12981755.1/120

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.384+/-0.000 χ^2/NDF : 216808129529.6/34

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.358+/-0.000 χ^2/NDF : 229983904118.7/37

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

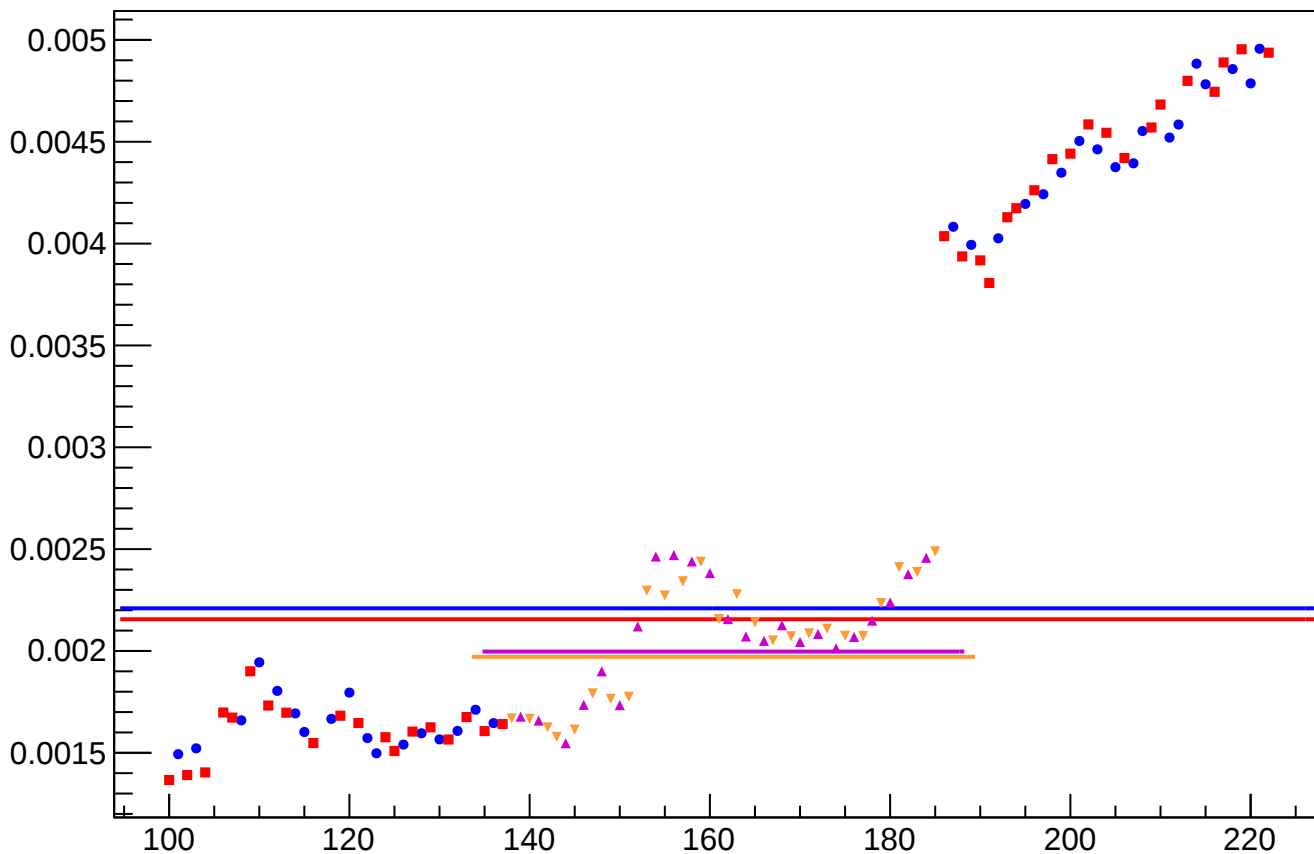
Right: 0.370+/-0.000 χ^2/NDF : 447844890638.3/72

In: 0.428+/-0.000 χ^2/NDF : 331575001621.7/57

Out: 0.419+/-0.000 χ^2/NDF : 353976848963.1/62

All: 0.423+/-0.000 χ^2/NDF : 685853491114.1

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8202555.7/34

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8802501.6/37

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

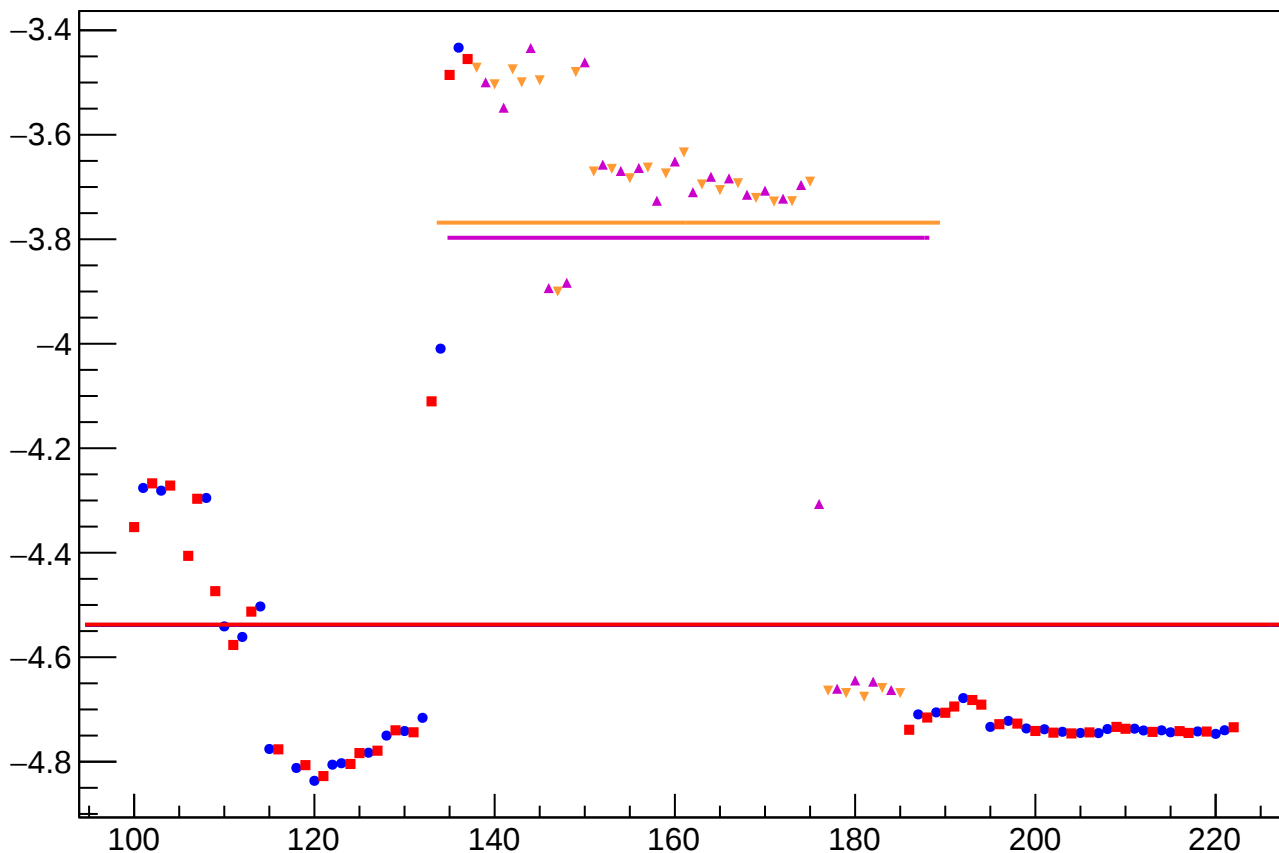
Right: 0.002+/-0.000 χ^2/NDF : 17014348.6/72

In: 0.002+/-0.000 χ^2/NDF : 9029036.4/57

Out: 0.002+/-0.000 χ^2/NDF : 9665565.1/62

All: 0.002+/-0.000 χ^2/NDF : 18705237.0/120

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.538+/-0.000

χ^2/NDF : 452907998749.9/34

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right Out: -4.538+/-0.000

χ^2/NDF : 388372029908.6/37

Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Right: -4.538+/-0.000

χ^2/NDF : 841280711568.8/72

In: -4.139+/-0.000

χ^2/NDF : 1796941236931.1/57

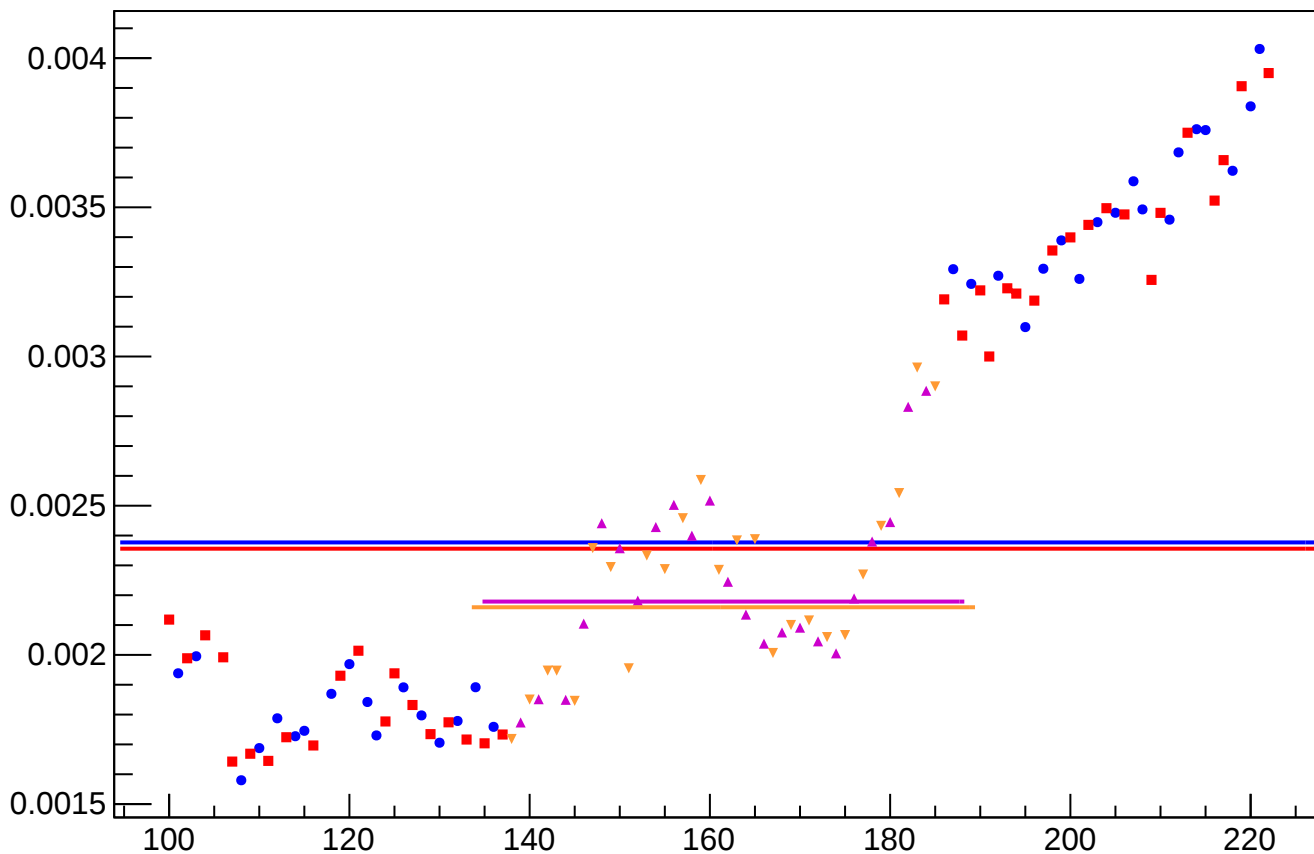
Out: -4.123+/-0.000

χ^2/NDF : 1944724216983.4/62

All: -4.130+/-0.000

χ^2/NDF : 3742572558698

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3953971.0/34

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4020433.4/37

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

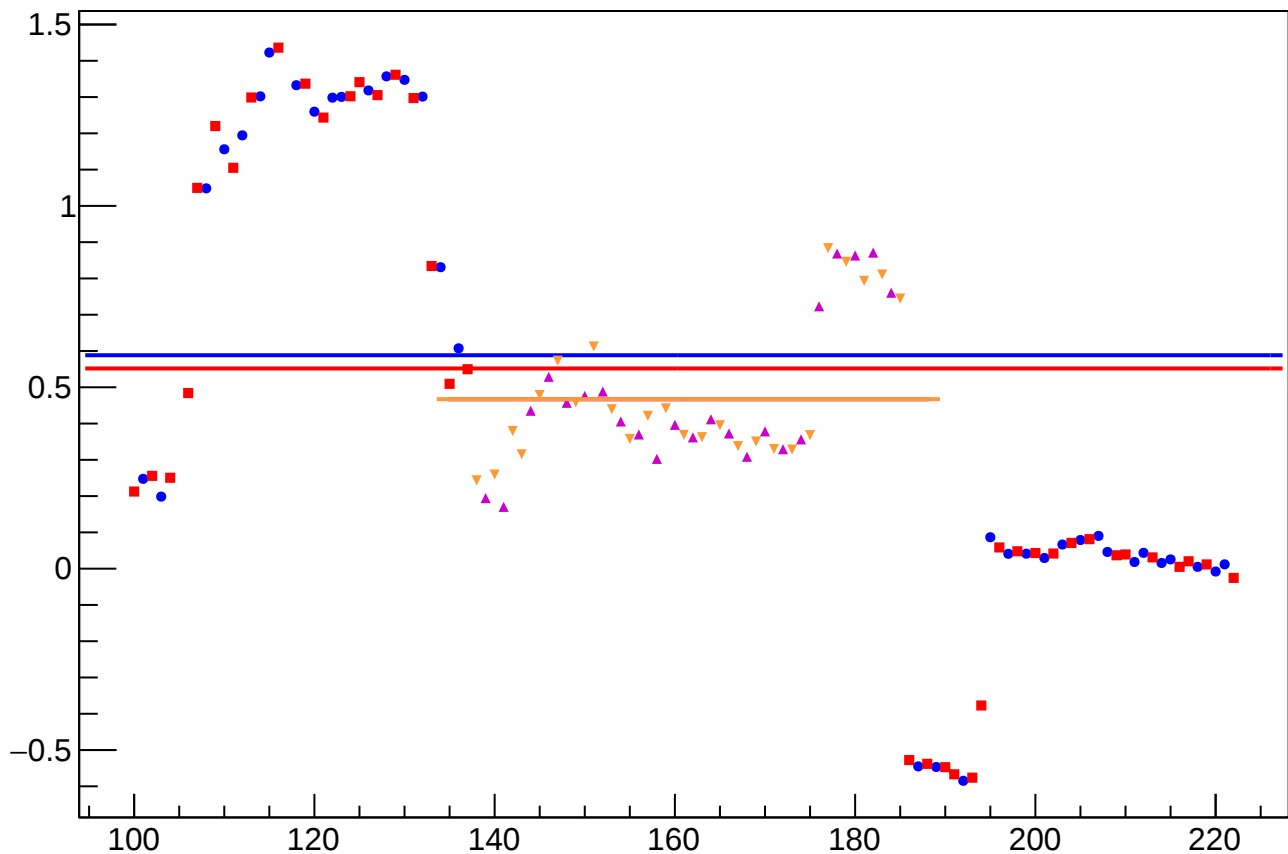
Right: 0.002+/-0.000 χ^2/NDF : 7975788.9/72

In: 0.002+/-0.000 χ^2/NDF :4545894.9/57

Out: 0.002+/-0.000 χ^2/NDF :4703625.2/62

All: 0.002+/-0.000 χ^2/NDF : 9252265.8/120

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.588 $\pm$ 0.000

χ^2 /NDF: 89613069202.0/34

Left: 0.467 $\pm$ 0.000

χ^2 /NDF: 15396100488.4/47

Left Out: 0.467 $\pm$ 0.000

χ^2 /NDF: 7359344143.3/24

Right: 0.569 $\pm$ 0.000

χ^2 /NDF: 196647006043.7/72

Right Out: 0.552 $\pm$ 0.000

χ^2 /NDF: 106883947720.8/37

In: 0.531 $\pm$ 0.000

χ^2 /NDF: 99158073012.9/57

Out: 0.512 $\pm$ 0.000

χ^2 /NDF: 115036679493.9/62

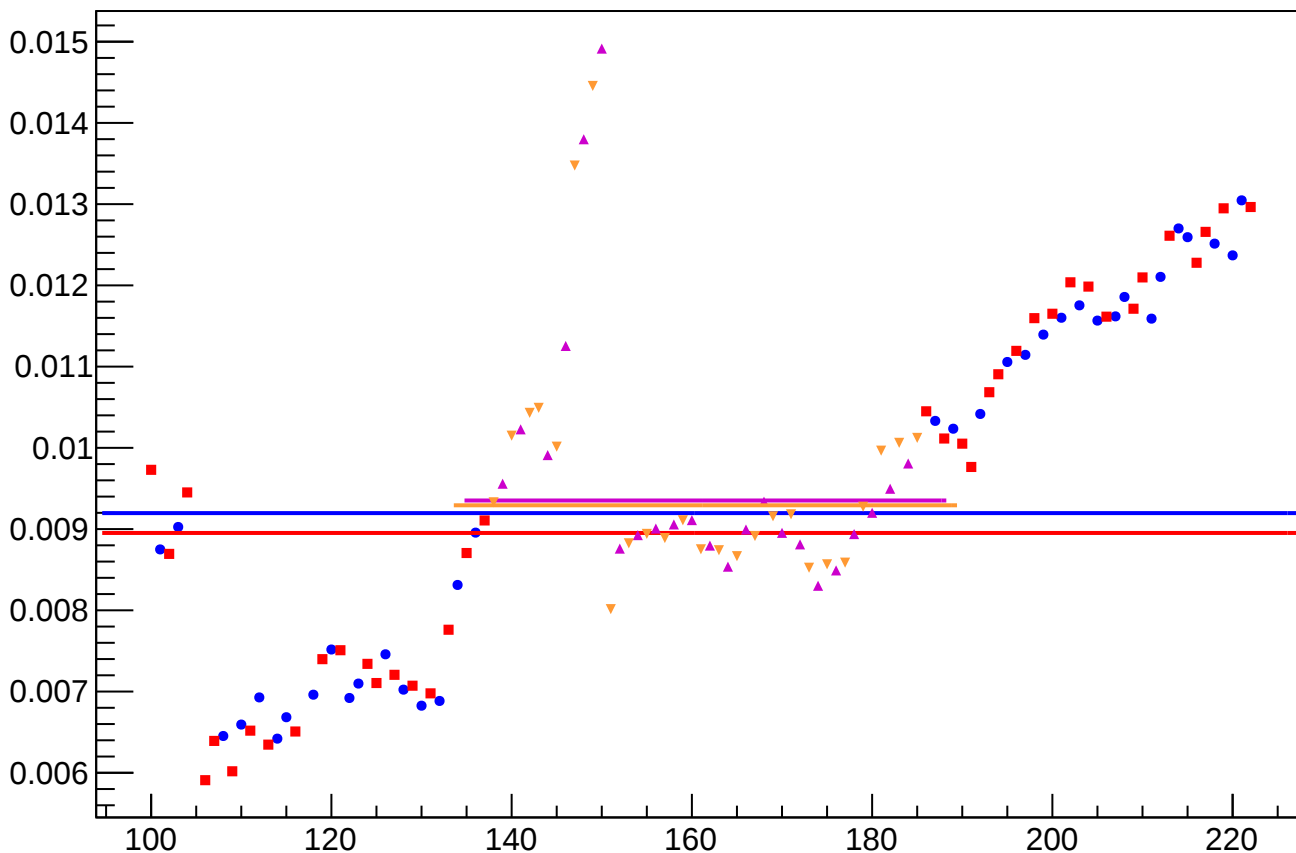
Left In: 0.467 $\pm$ 0.000

χ^2 /NDF: 8036741308.0/22

All: 0.521 $\pm$ 0.000

χ^2 /NDF: 214268878908.6

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2197815.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2648301.0/37

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

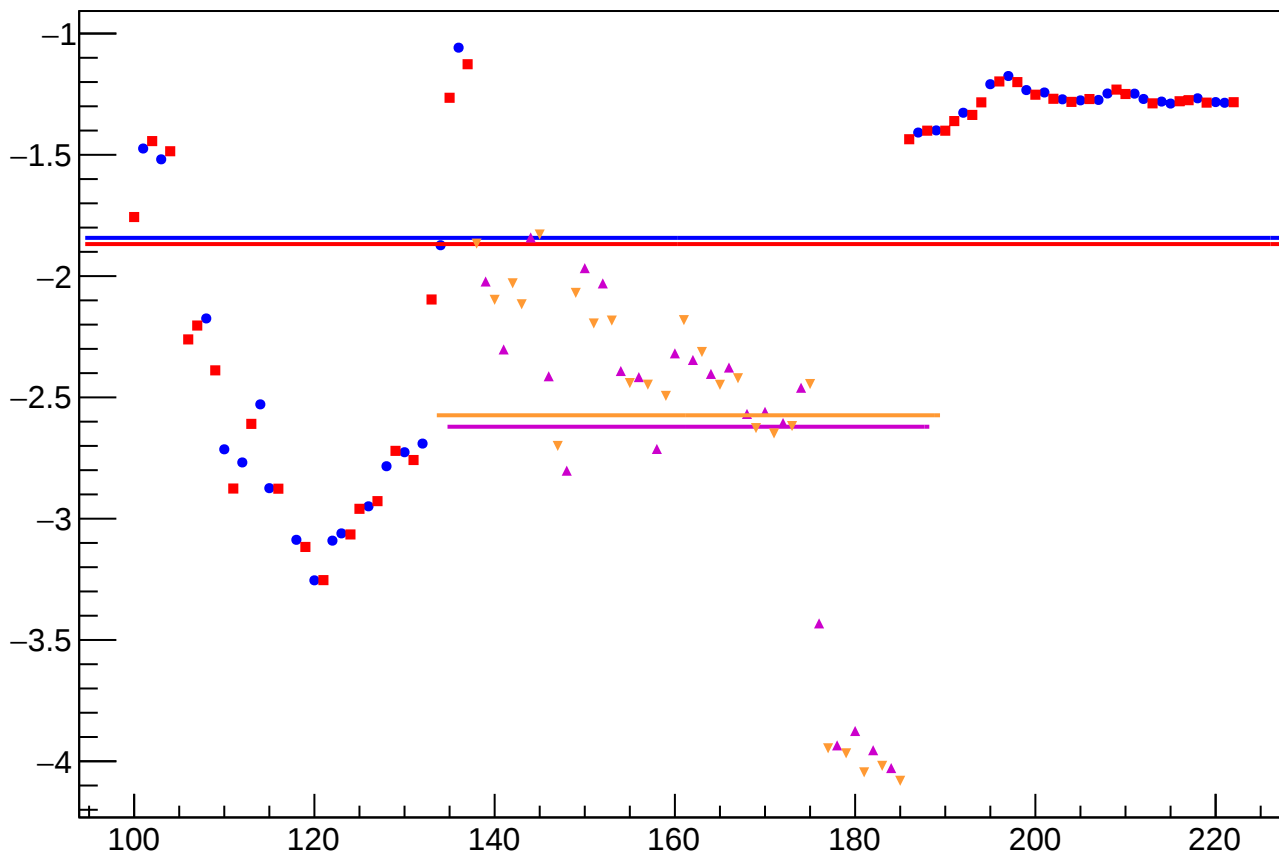
Right: 0.009+/-0.000 χ^2/NDF : 4859569.0/72

In: 0.009+/-0.000 χ^2/NDF :2760297.0/57

Out: 0.009+/-0.000 χ^2/NDF :3202277.0/62

All: 0.009+/-0.000 χ^2/NDF : 5973229.7/120

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.842+/-0.000

χ^2/NDF : 141756689538.8/34

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -1.856+/-0.000

χ^2/NDF : 281419049121.2/72

Right Out: -1.868+/-0.000

χ^2/NDF : 139574814722.7/37

In: -2.205+/-0.000

χ^2/NDF : 295304922394.8/57

Out: -2.196+/-0.000

χ^2/NDF : 302665935047.9/62

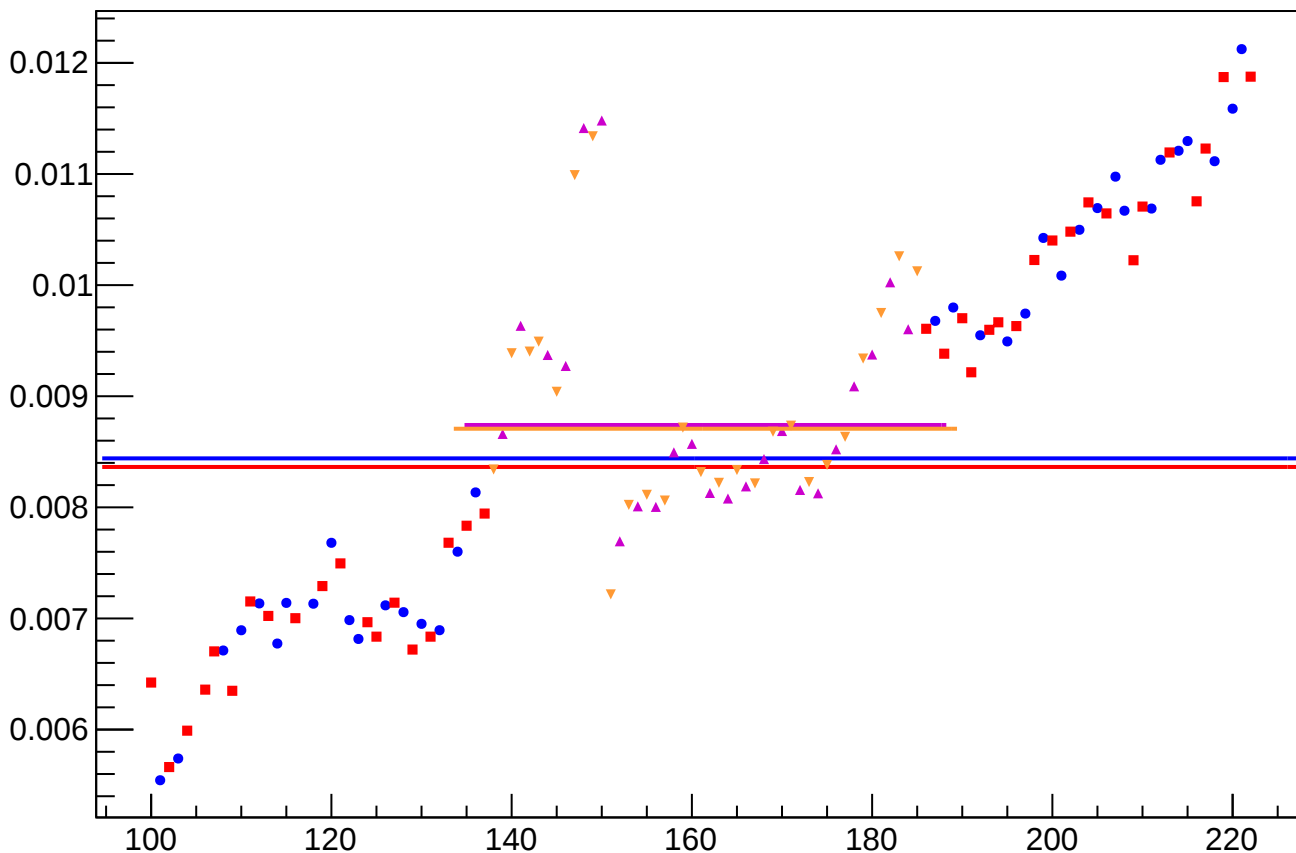
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.200+/-0.000

χ^2/NDF : 597990440584.7

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2038338.3/34

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2007125.8/37

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

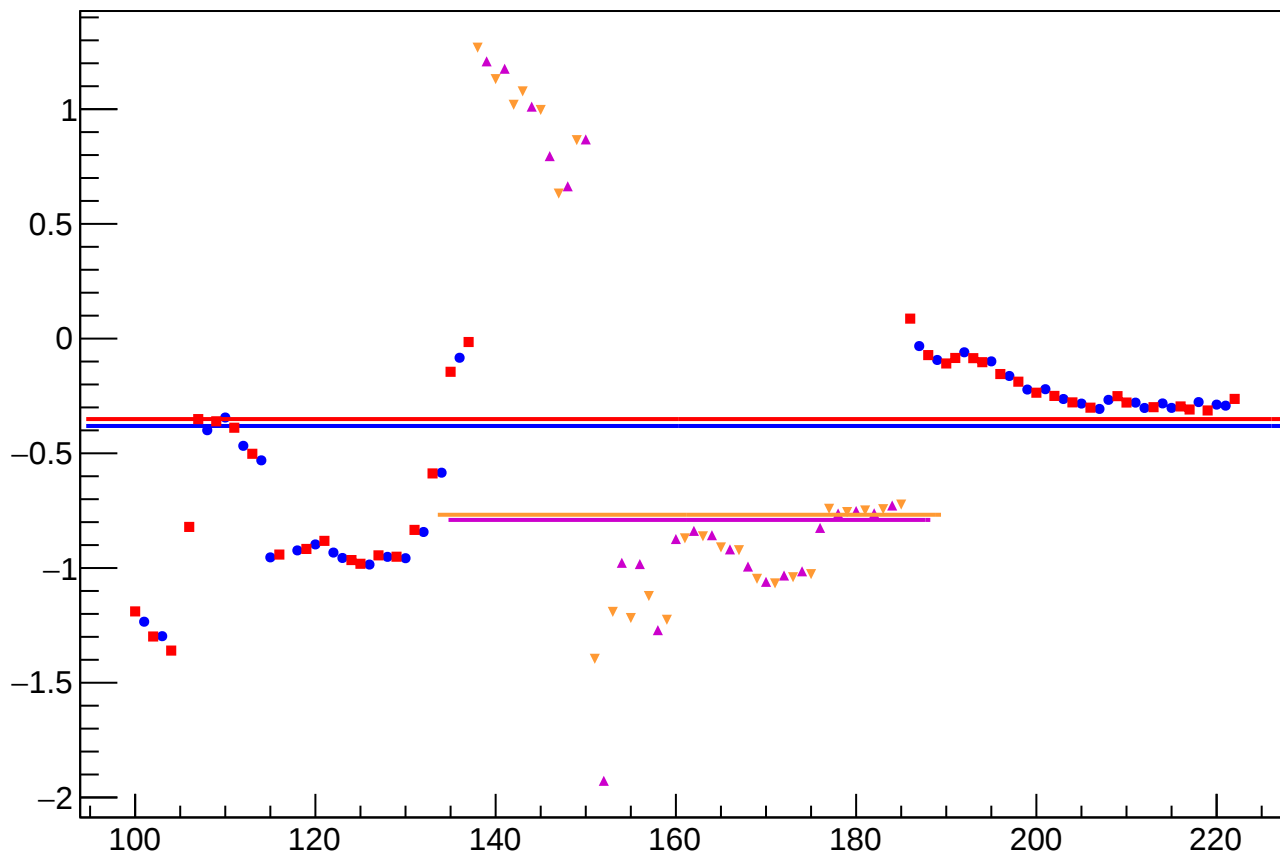
Right: 0.008+/-0.000 χ^2/NDF : 4047060.7/72

In: 0.009+/-0.000 χ^2/NDF :2413735.2/57

Out: 0.009+/-0.000 χ^2/NDF :2406876.9/62

All: 0.009+/-0.000 χ^2/NDF : 4822253.5/120

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.381+/-0.000 χ^2/NDF : 23284563351.1/34

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.351+/-0.000 χ^2/NDF : 25440041890.5/37

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

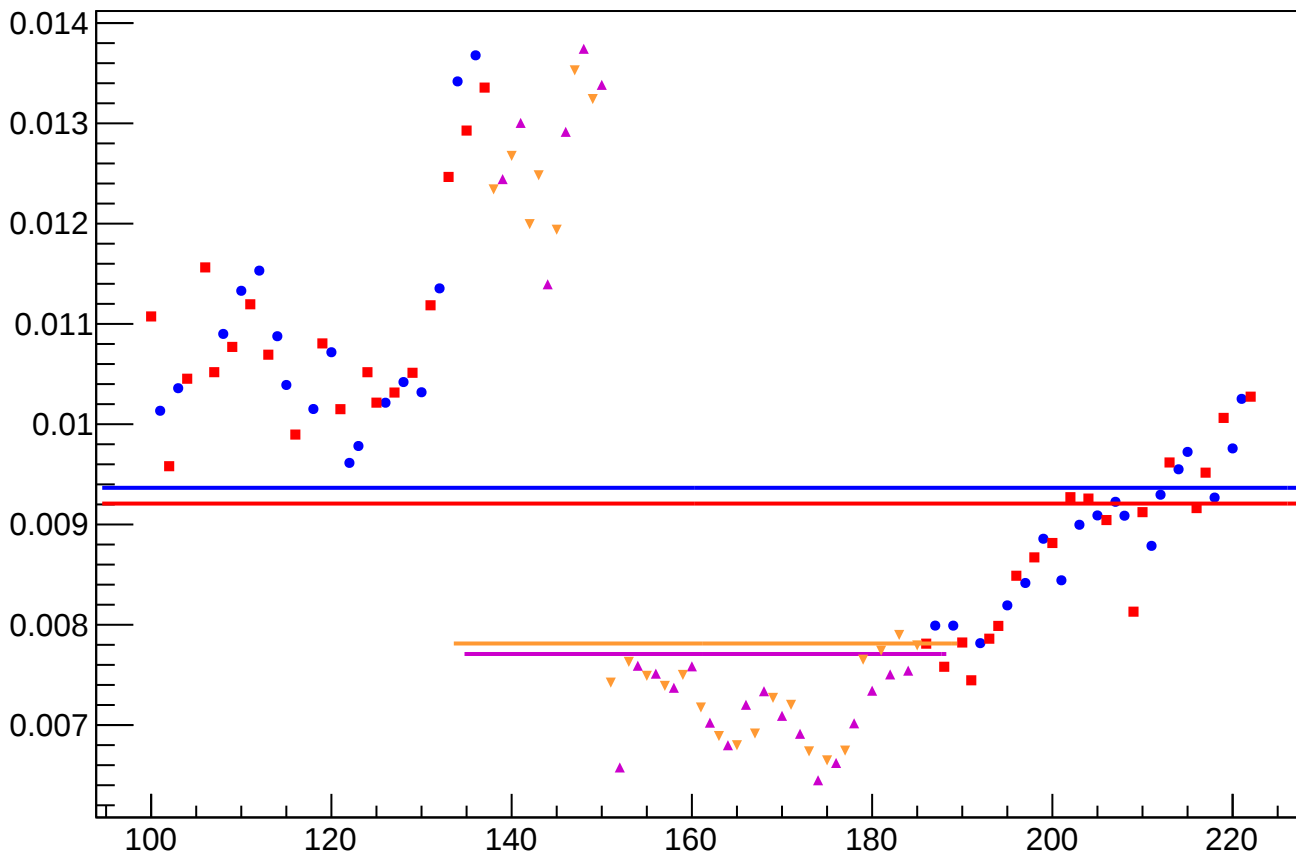
Right: -0.365+/-0.000 χ^2/NDF : 48825665134.7/72

In: -0.610+/-0.000 χ^2/NDF : 166869189741.2/57

Out: -0.580+/-0.000 χ^2/NDF : 168314328669.6/62

All: -0.594+/-0.000 χ^2/NDF : 335407666050.3

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 560049.3/34

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 687563.8/37

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

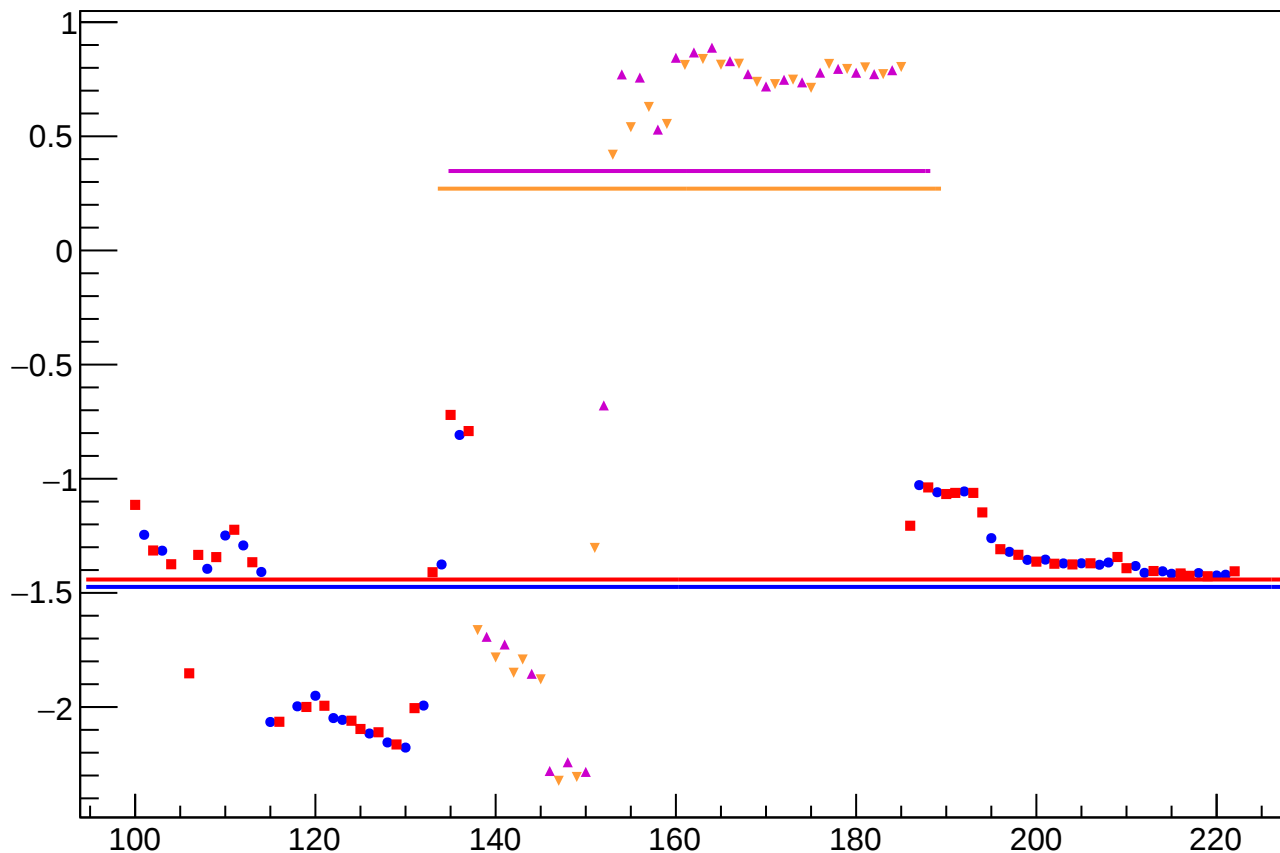
Right: 0.009+/-0.000 χ^2/NDF : 1253115.3/72

In: 0.008+/-0.000 χ^2/NDF :2966040.0/57

Out: 0.008+/-0.000 χ^2/NDF :2888253.5/62

All: 0.008+/-0.000 χ^2/NDF : 5854297.3/120

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.474 ± 0.000 $\chi^2/\text{NDF}: 175421305517.7/34$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.441 ± 0.000 $\chi^2/\text{NDF}: 164615515728.4/37$

Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

Left: 0.308 ± 0.000 $\chi^2/\text{NDF}: 4864843200778.2/47$

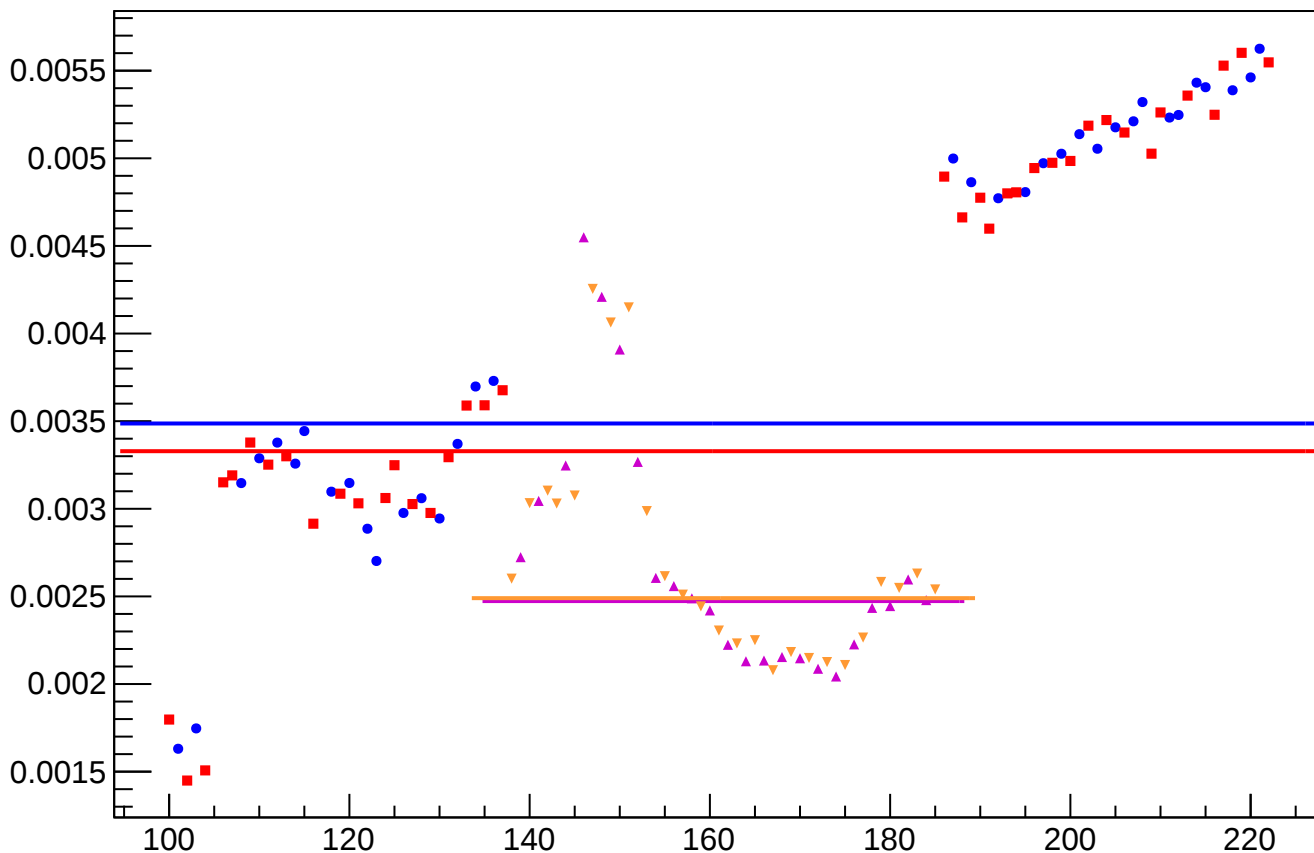
Right: -1.457 ± 0.000 $\chi^2/\text{NDF}: 340766668418.9/72$

In: -0.283 ± 0.000 $\chi^2/\text{NDF}: 5304503410154.4/57$

Out: -0.343 ± 0.000 $\chi^2/\text{NDF}: 5503529346722.3/62$

All: -0.314 ± 0.000 $\chi^2/\text{NDF}: 1081506657666$

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5055177.1/34

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6221590.4/37

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

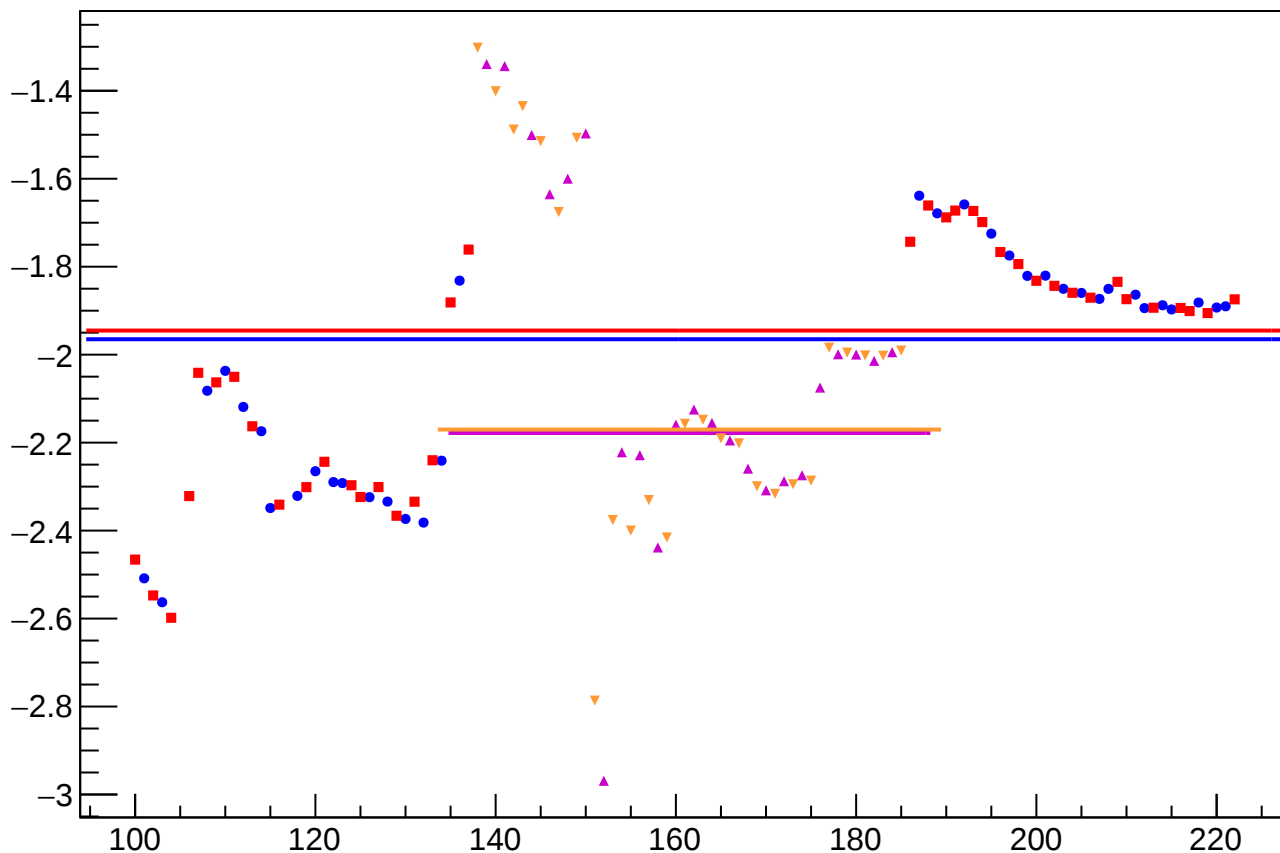
Right: 0.003+/-0.000 χ^2/NDF : 11311425.7/72

In: 0.003+/-0.000 χ^2/NDF :7957121.7/57

Out: 0.003+/-0.000 χ^2/NDF :8614174.7/62

All: 0.003+/-0.000 χ^2/NDF : 16575809.4/120

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.965+/-0.000 χ^2/NDF : 31854106906.1/34

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.945+/-0.000 χ^2/NDF : 35553197086.2/37

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

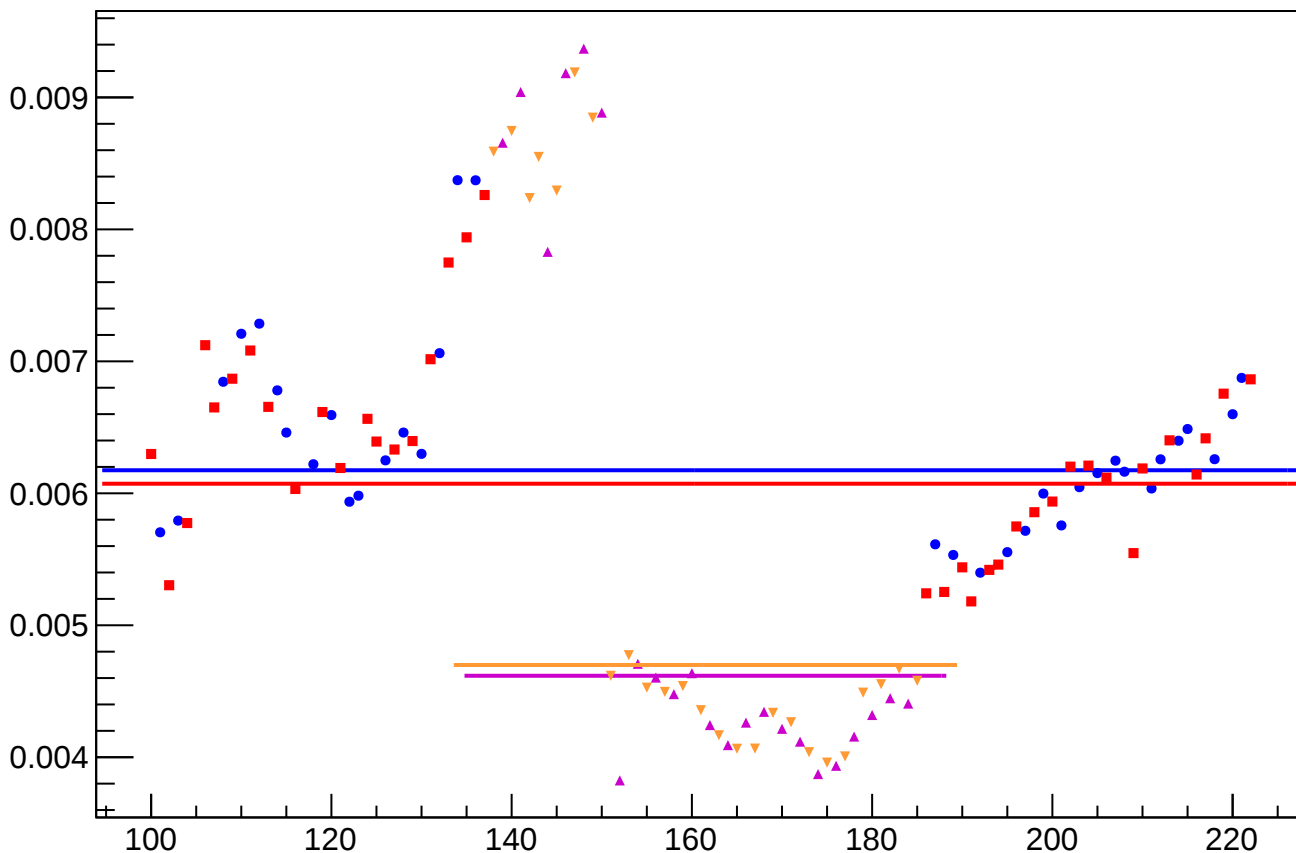
Right: -1.955+/-0.000 χ^2/NDF : 67507472375.5/72

In: -2.092+/-0.000 χ^2/NDF : 118652329536.3/57

Out: -2.077+/-0.000 χ^2/NDF : 111344375575.8/62

All: -2.084+/-0.000 χ^2/NDF : 230139822780.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 327036.9/34

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 416830.4/37

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

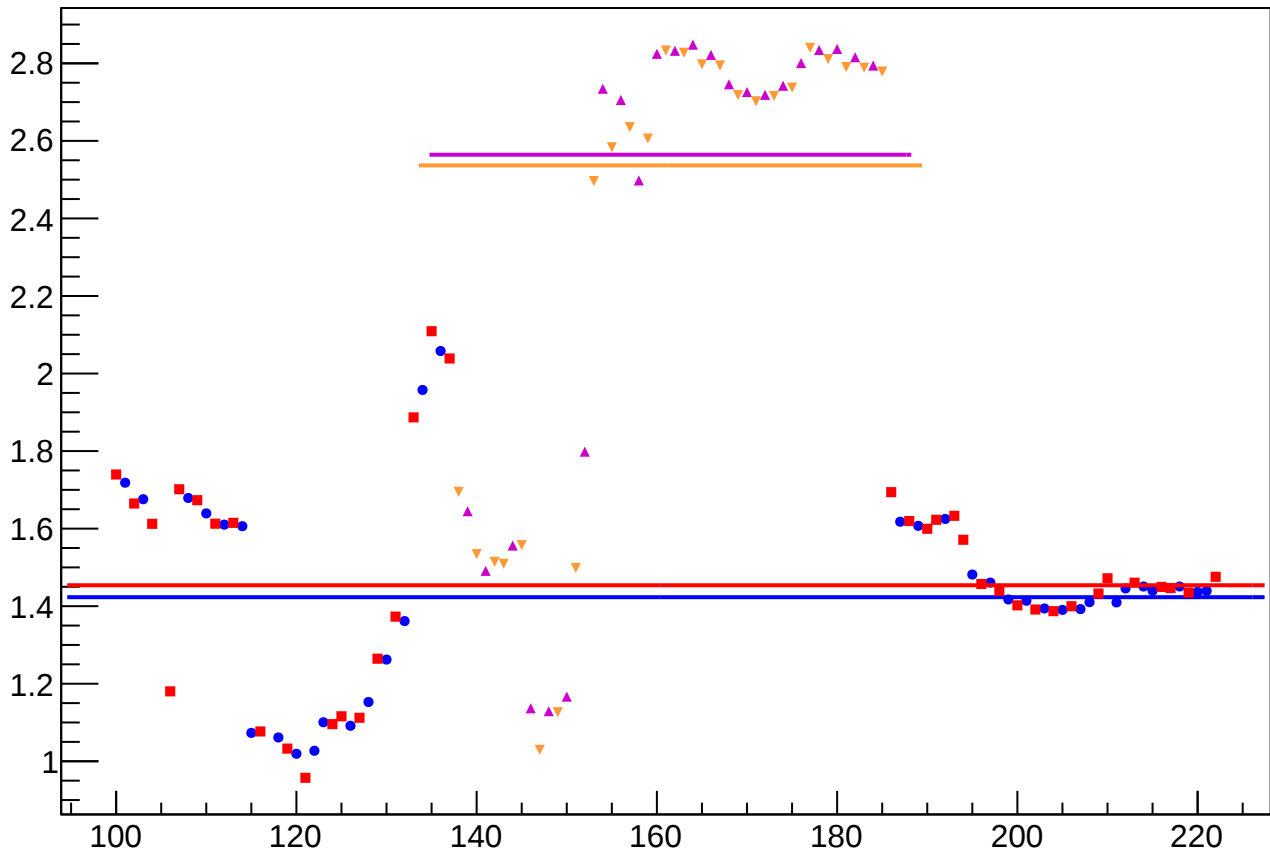
Right: 0.006+/-0.000 χ^2/NDF : 749202.9/72

In: 0.005+/-0.000 χ^2/NDF :4125093.2/57

Out: 0.005+/-0.000 χ^2/NDF :3915219.9/62

All: 0.005+/-0.000 χ^2/NDF : 8040961.0/120

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174221312454.0/34

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177018575270.0/37

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

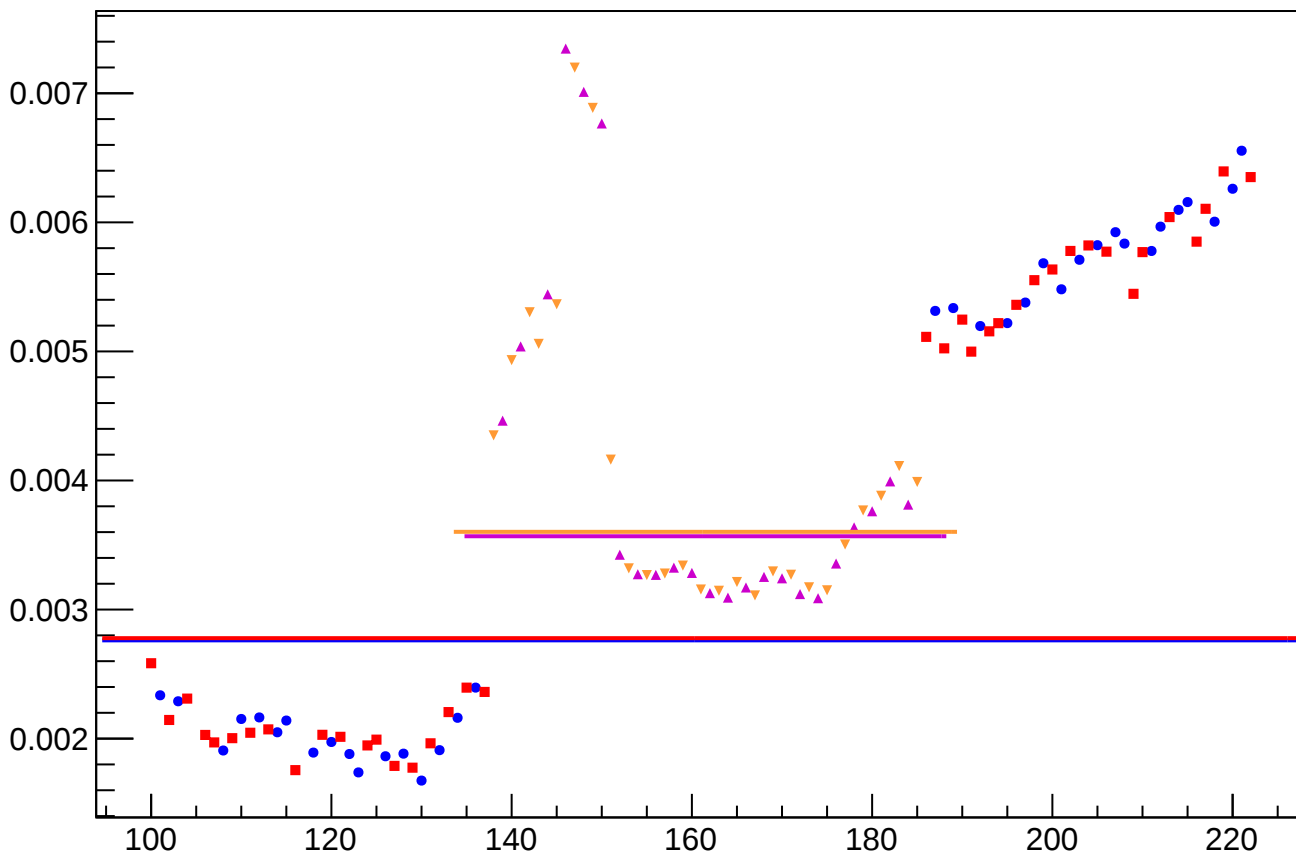
Right: 1.439+/-0.000 χ^2/NDF : 352161937450.4/72

In: 1.871+/-0.000 χ^2/NDF : 1405177674734.5/57

Out: 1.879+/-0.000 χ^2/NDF : 1363537053712.1/62

All: 1.875+/-0.000 χ^2/NDF : 2768838799769.0

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 8668281.1/34

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8656801.9/37

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

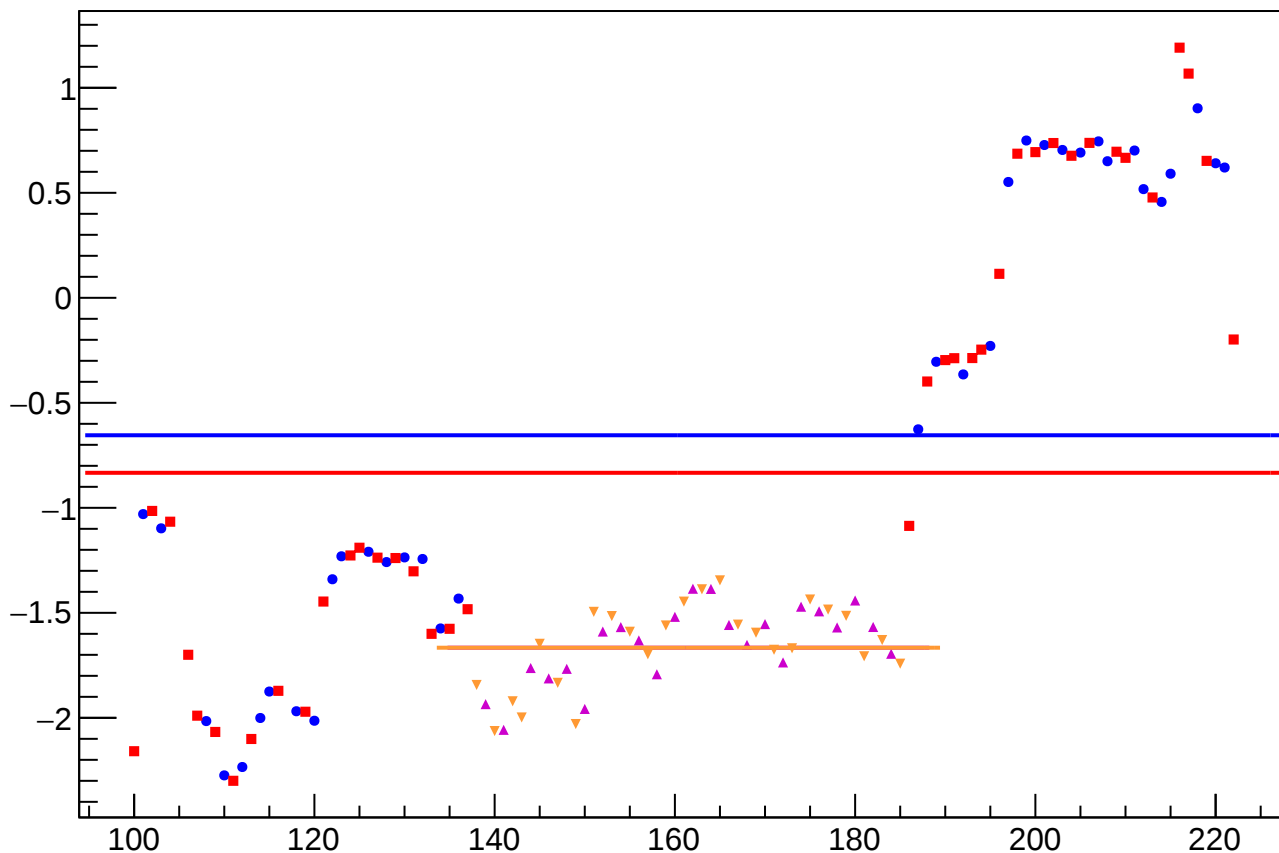
Right: 0.003+/-0.000 χ^2/NDF : 17325639.4/72

In: 0.003+/-0.000 χ^2/NDF :11201027.6/57

Out: 0.003+/-0.000 χ^2/NDF :11129335.0/62

All: 0.003+/-0.000 χ^2/NDF : 22332269.8/120

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.654+/-0.000

χ^2/NDF : 267935638545.8/34

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -0.749+/-0.000

χ^2/NDF : 575582444134.4/72

Right Out: -0.833+/-0.000

χ^2/NDF : 303537143134.9/37

In: -1.289+/-0.000

χ^2/NDF : 438423243766.8/57

Out: -1.347+/-0.000

χ^2/NDF : 438833619253.5/62

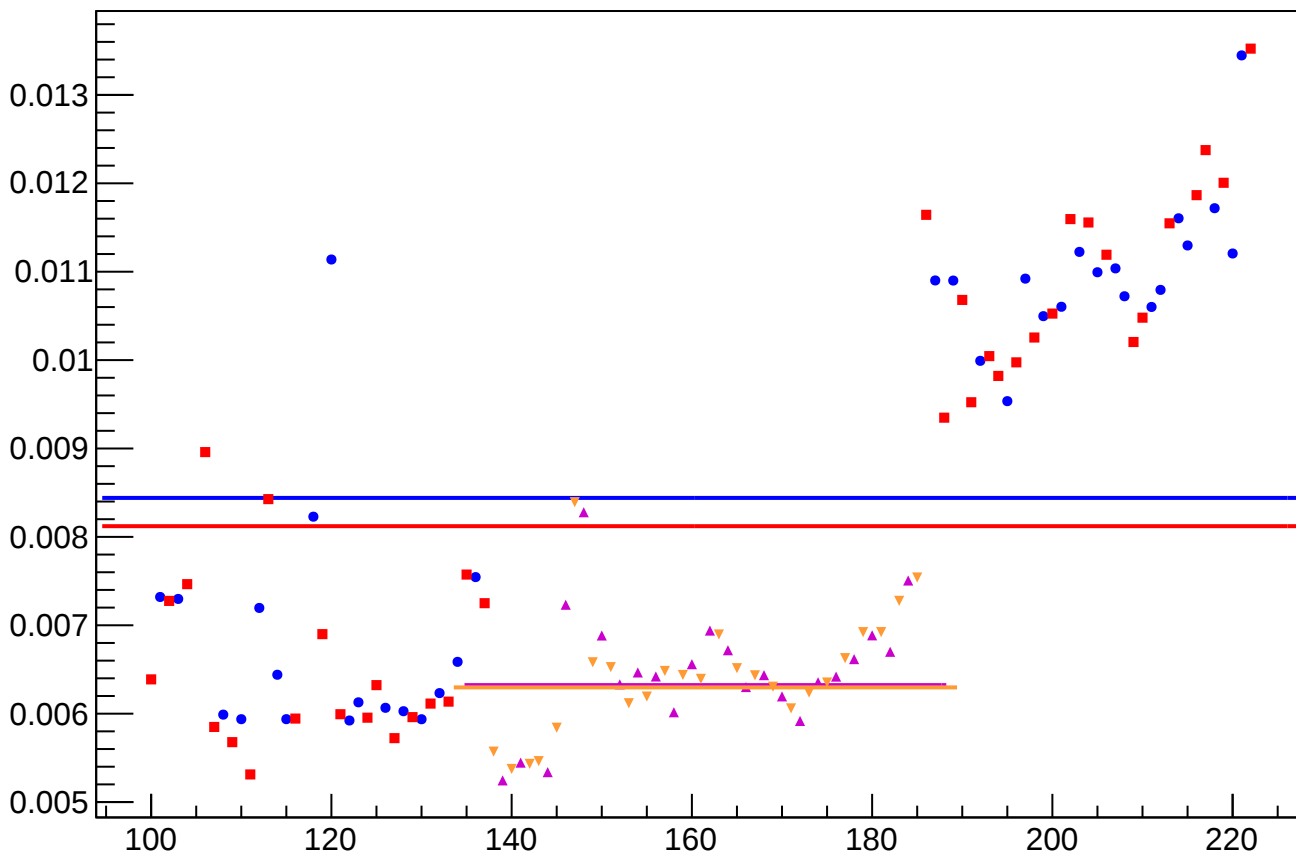
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.320+/-0.000

χ^2/NDF : 878404286151.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2443934.3/34

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3021003.9/37

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

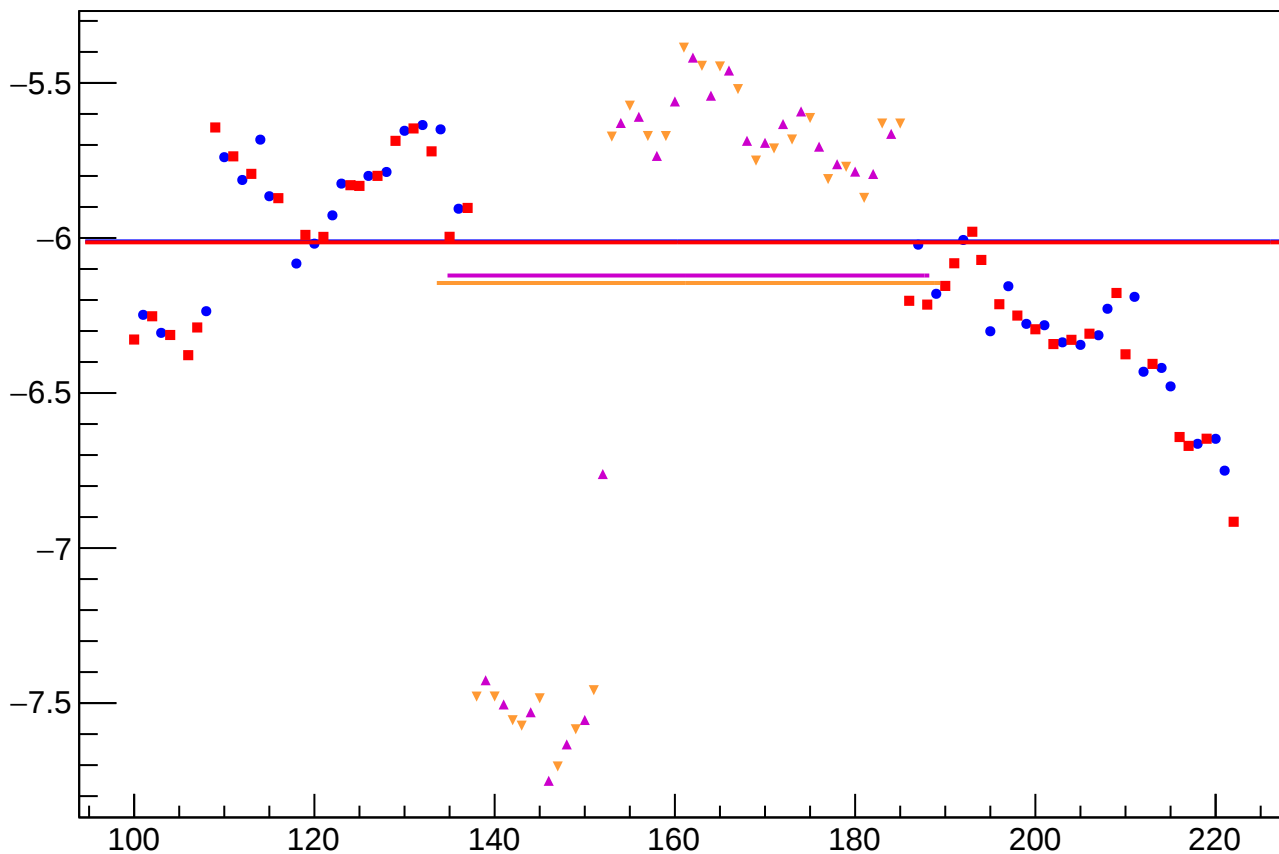
Right: 0.008+/-0.000 χ^2/NDF : 5491278.5/72

In: 0.007+/-0.000 χ^2/NDF :4143957.7/57

Out: 0.007+/-0.000 χ^2/NDF :4453515.1/62

All: 0.007+/-0.000 χ^2/NDF : 8606759.8/120

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.011+/-0.000 χ^2/NDF : 21666985288.5/34

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -6.014+/-0.000 χ^2/NDF : 24742939275.5/37

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

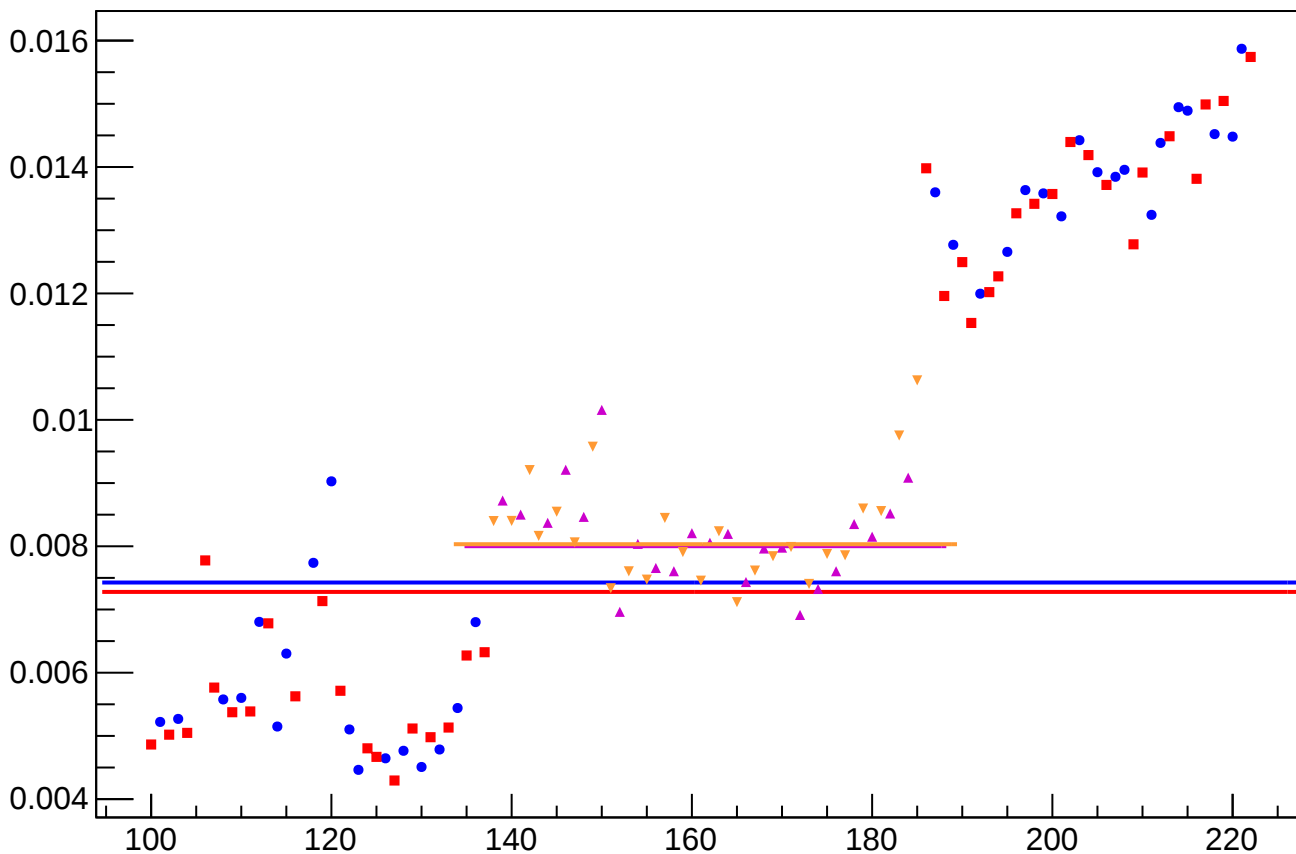
Right: -6.013+/-0.000 χ^2/NDF : 46411241619.5/72

In: -6.064+/-0.000 χ^2/NDF : 181535711330.4/57

Out: -6.075+/-0.000 χ^2/NDF : 212458784948.4/62

All: -6.070+/-0.000 χ^2/NDF : 394029735203.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7289884.7/34

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7427163.2/37

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

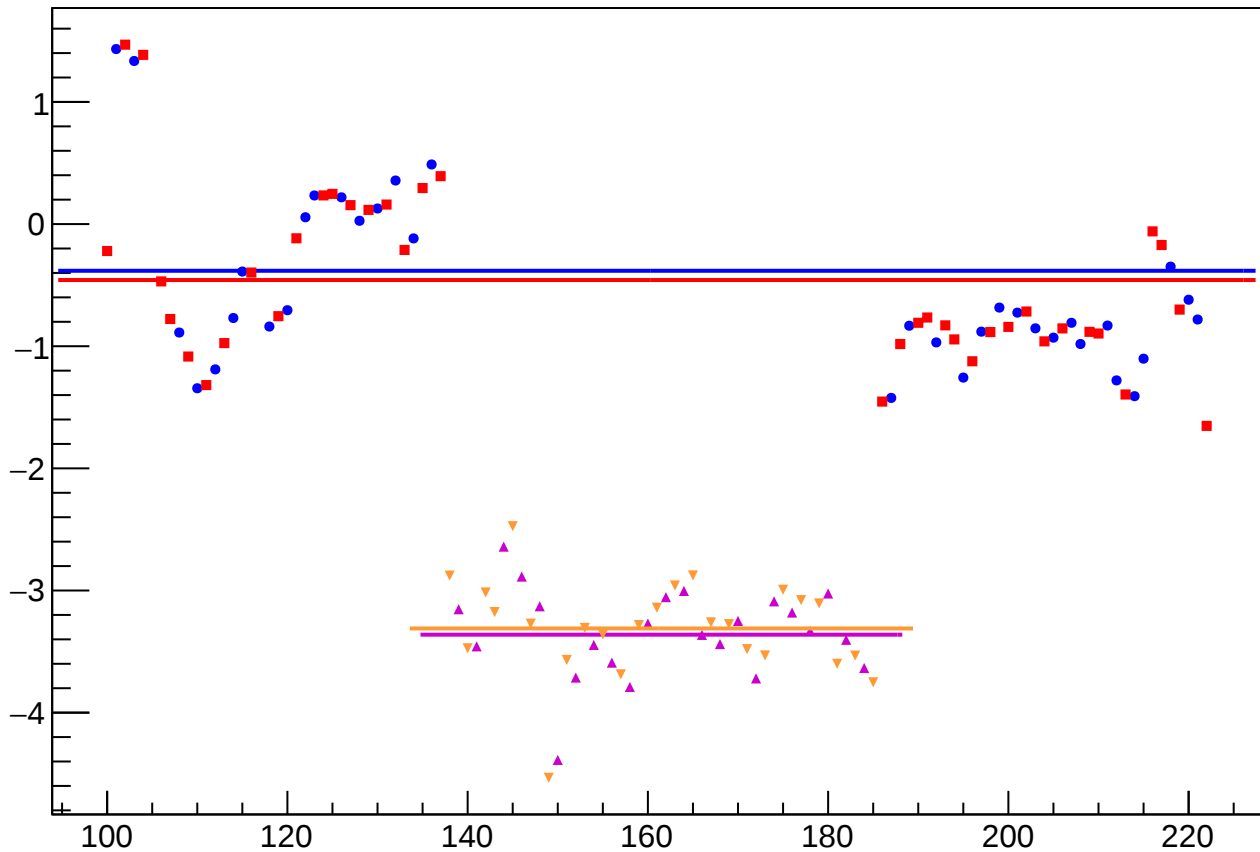
Right: 0.007+/-0.000 χ^2/NDF : 14723217.9/72

In: 0.008+/-0.000 χ^2/NDF :7595335.7/57

Out: 0.008+/-0.000 χ^2/NDF :7788781.0/62

All: 0.008+/-0.000 χ^2/NDF : 15386851.9/120

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.382 ± 0.000 $\chi^2/\text{NDF}: 36697953315.6/34$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.458 ± 0.000 $\chi^2/\text{NDF}: 37567048113.8/37$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

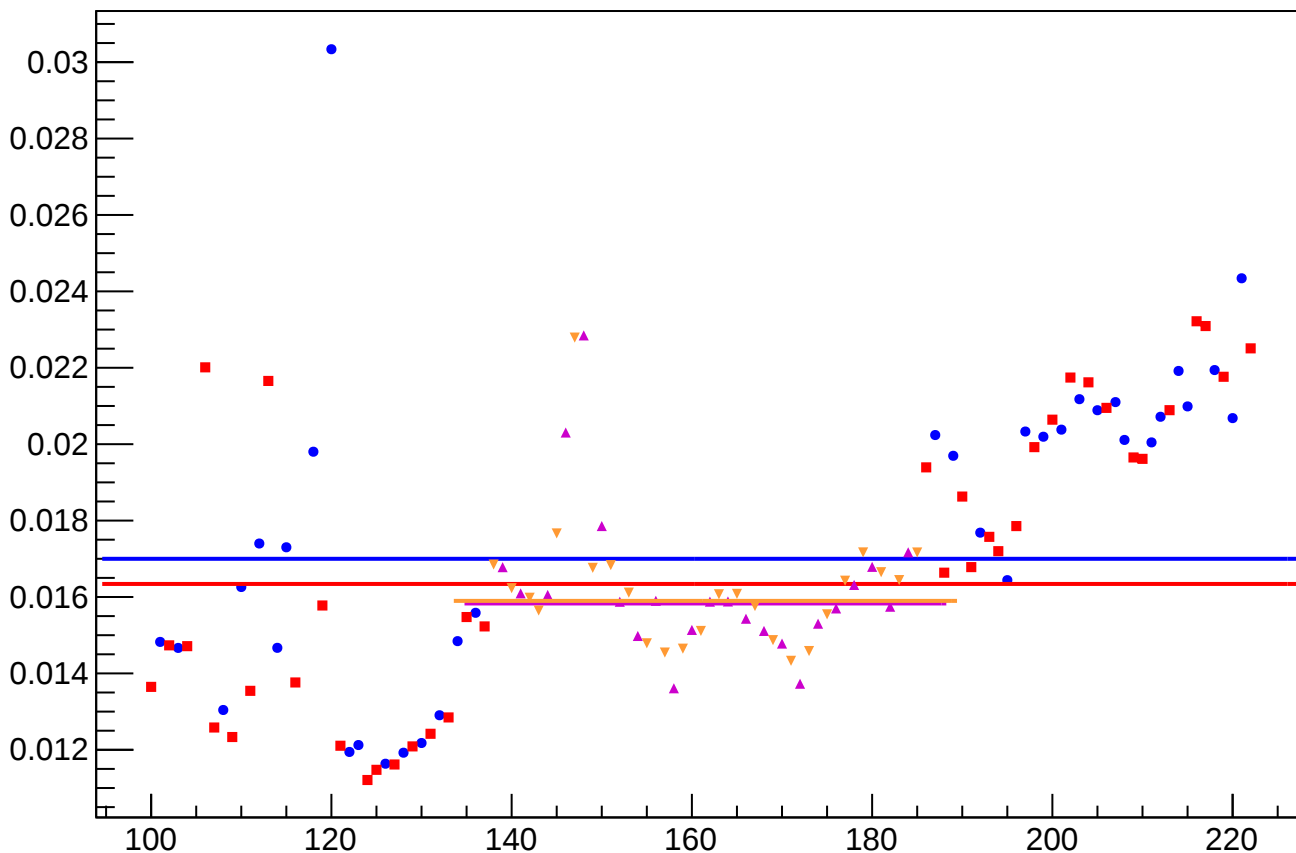
Right: -0.423 ± 0.000 $\chi^2/\text{NDF}: 74452055449.0/72$

In: -1.931 ± 0.000 $\chi^2/\text{NDF}: 327213027227.2/57$

Out: -1.888 ± 0.000 $\chi^2/\text{NDF}: 330744623447.8/62$

All: -1.909 ± 0.000 $\chi^2/\text{NDF}: 658081698698.9$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1760271.5/34

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1983816.4/37

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

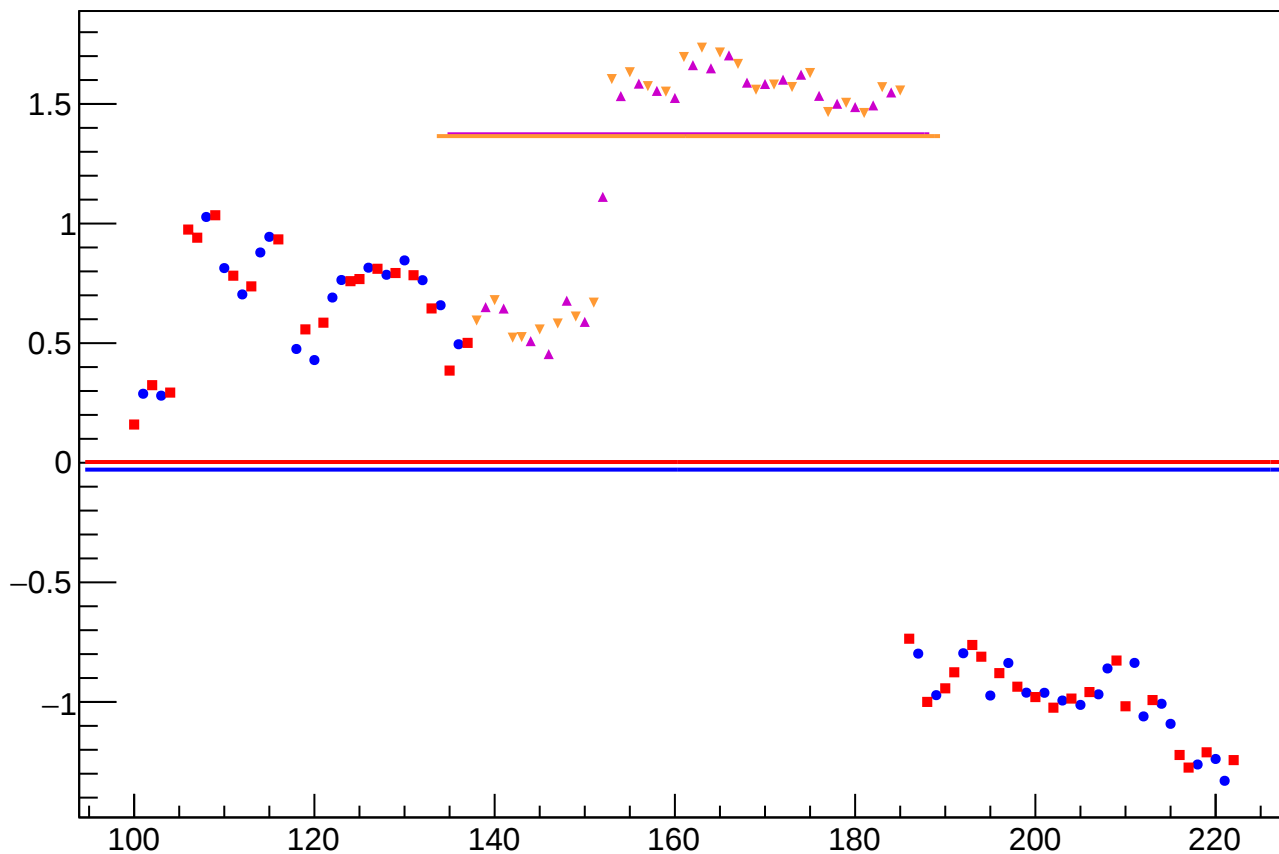
Right: 0.017+/-0.000 χ^2/NDF : 3772284.1/72

In: 0.016+/-0.000 χ^2/NDF :2186755.9/57

Out: 0.016+/-0.000 χ^2/NDF :2249430.0/62

All: 0.016+/-0.000 χ^2/NDF : 4446072.8/120

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 104711829195.6/34

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: -0.012+/-0.000 χ^2/NDF : 220580699403.2/72

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 0.992+/-0.000 χ^2/NDF : 396492362724.3/57

Right Out: 0.003+/-0.000

χ^2/NDF : 115783473835.3/37

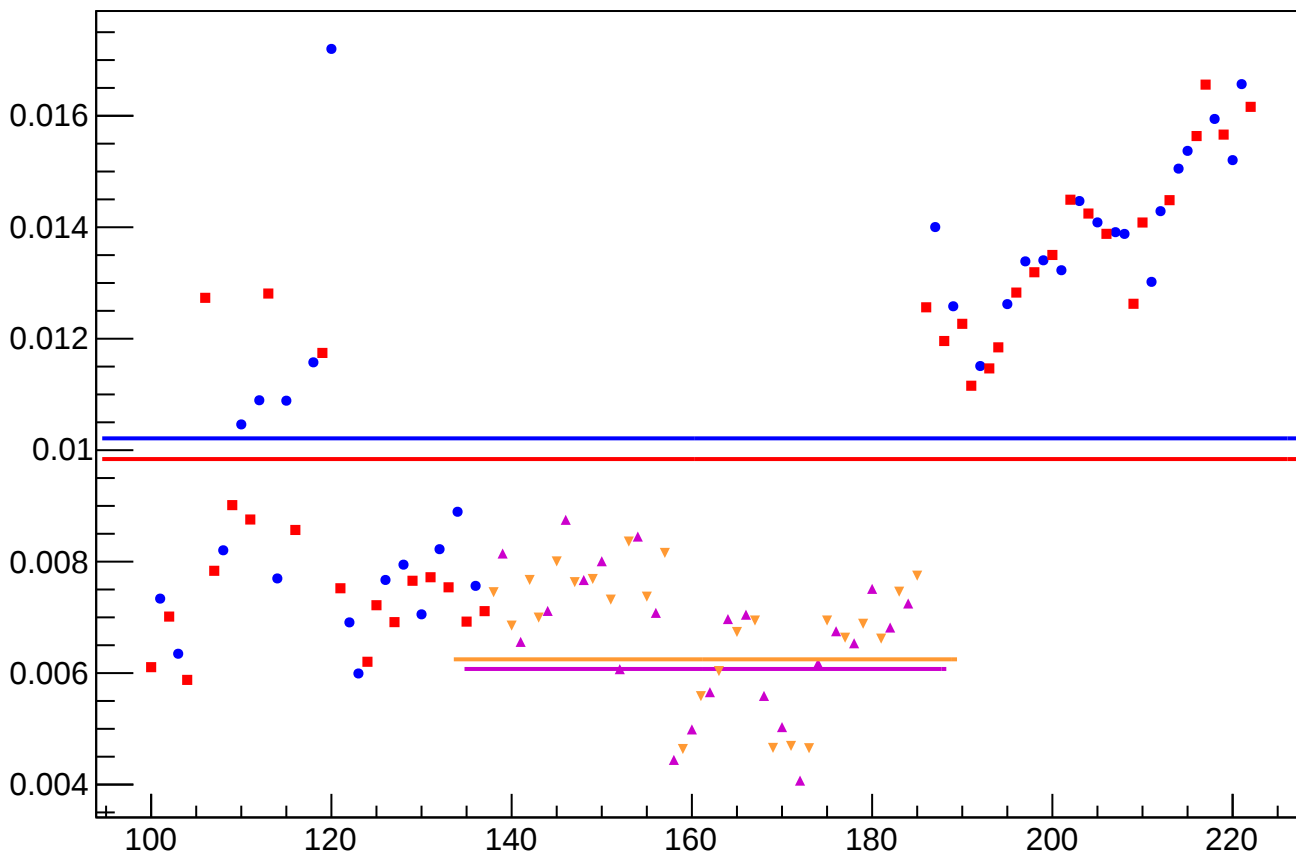
Out: 0.963+/-0.000 χ^2/NDF : 424090405779.2/62

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 0.977+/-0.000 χ^2/NDF : 820831388047.4

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 3369248.6/34

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.010+/-0.000 χ^2/NDF : 3685678.8/37

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

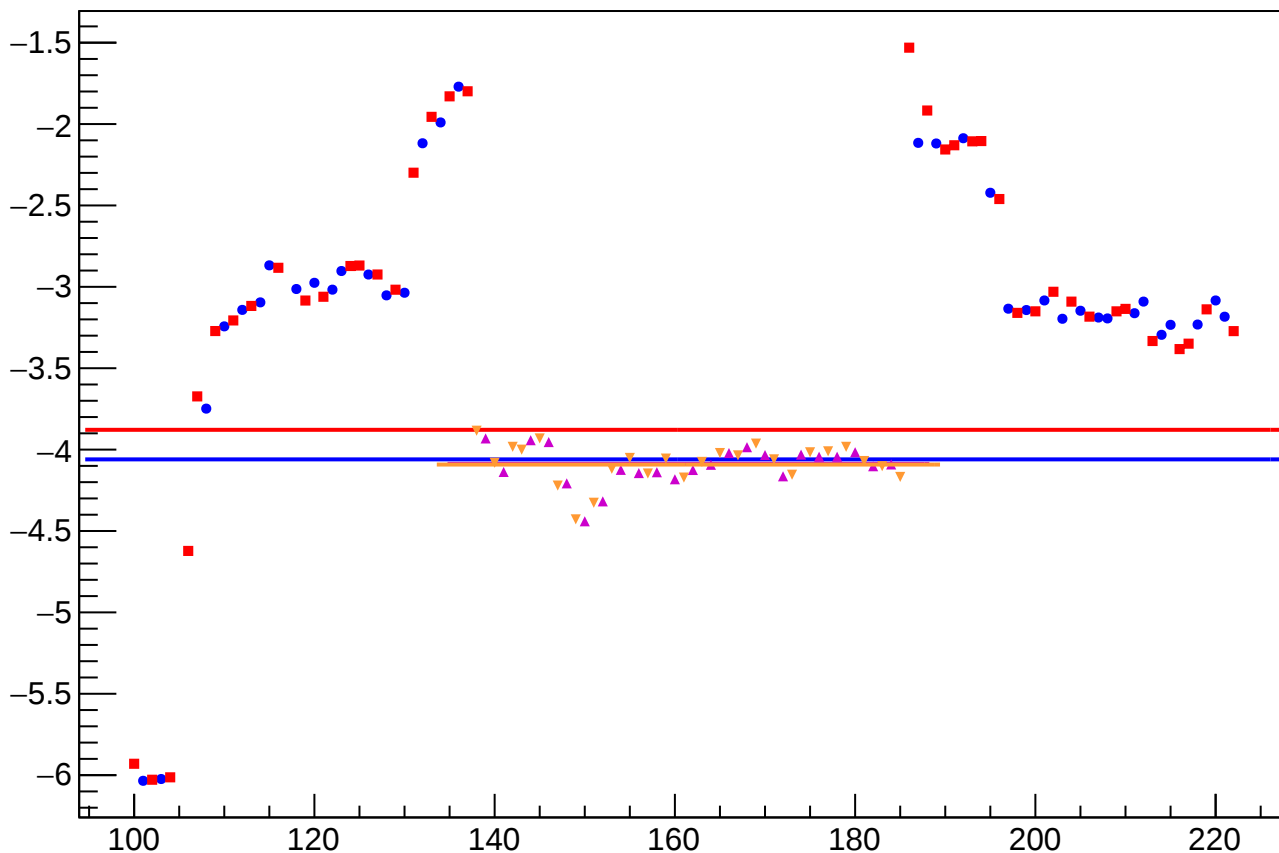
Right: 0.010+/-0.000 χ^2/NDF : 7078184.2/72

In: 0.007+/-0.000 χ^2/NDF :8780163.2/57

Out: 0.007+/-0.000 χ^2/NDF :8265909.4/62

All: 0.007+/-0.000 χ^2/NDF : 17053191.9/120

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.060 $\pm$ 0.000 χ^2 /NDF: 293623486125.4/34

Left Out: -4.092 $\pm$ 0.000 χ^2 /NDF: 39806766.7/24

Right Out: -3.878 $\pm$ 0.000 χ^2 /NDF: 283083967693.9/37

Left In: -4.088 $\pm$ 0.000 χ^2 /NDF: 34412880.7/22

Left: -4.089 $\pm$ 0.000 χ^2 /NDF: 74248792.8/47

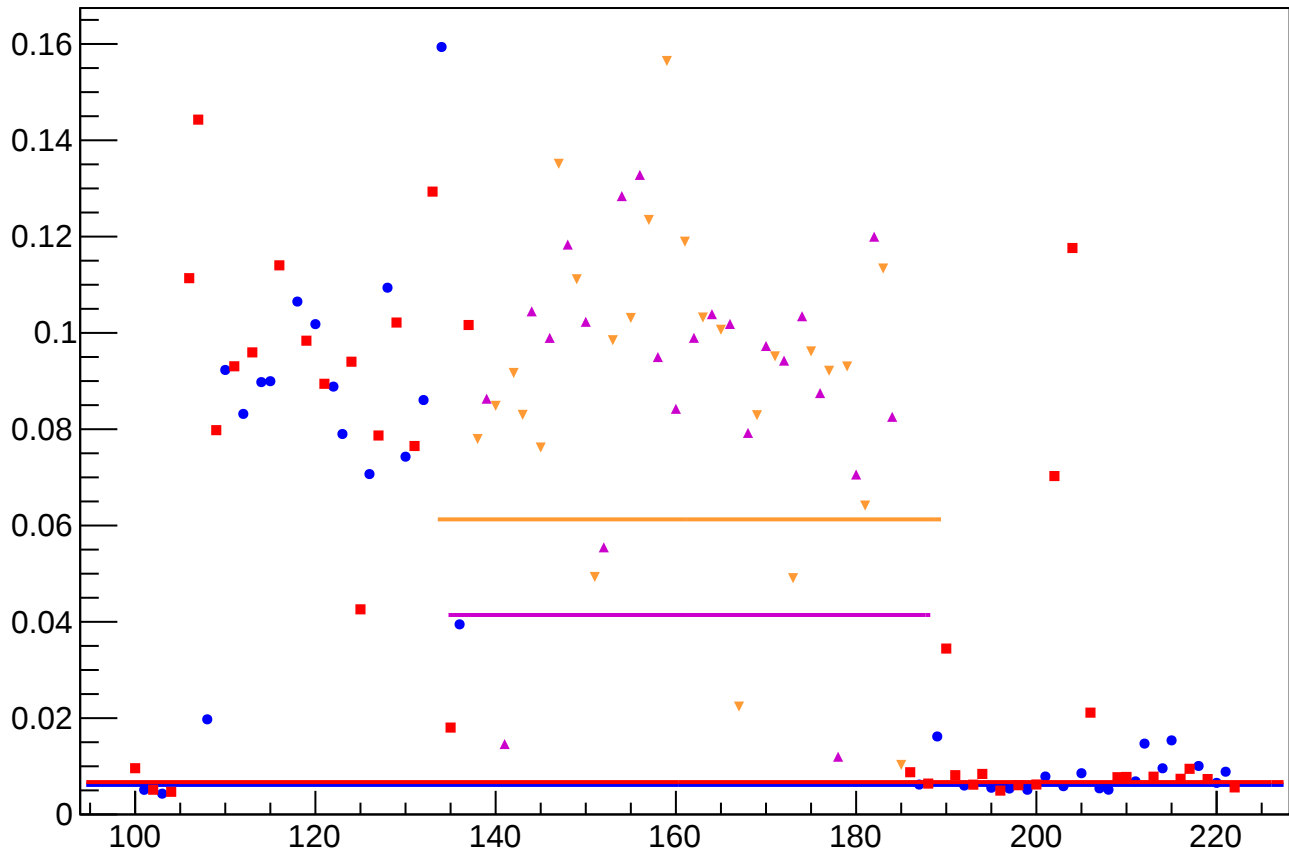
Right: -3.978 $\pm$ 0.000 χ^2 /NDF: 578615133433.3/72

In: -4.061 $\pm$ 0.000 χ^2 /NDF: 293661057902.2/57

Out: -3.884 $\pm$ 0.000 χ^2 /NDF: 283254543795.8/62

All: -3.981 $\pm$ 0.000 χ^2 /NDF: 578776298009.0

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8448566.2/34

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10432044.0/37

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

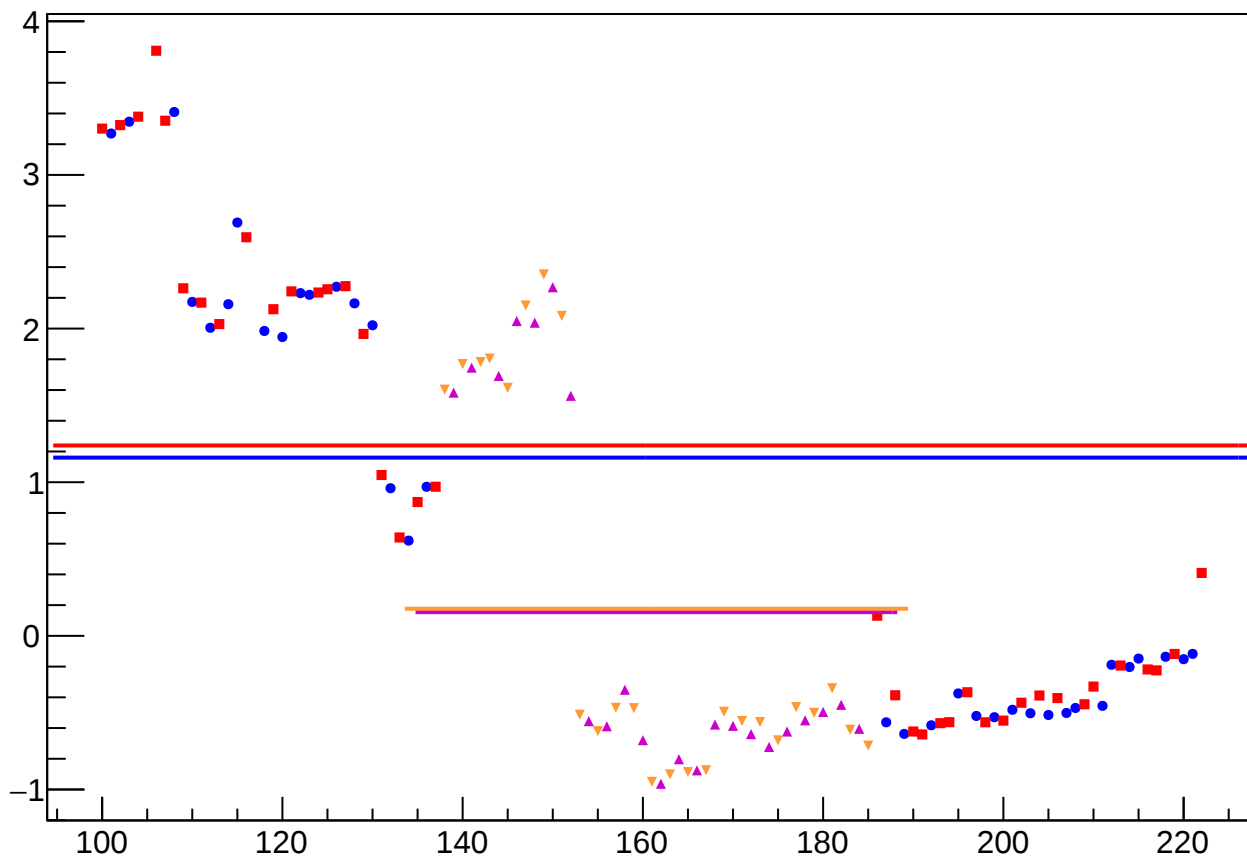
Right: 0.006+/-0.000 χ^2/NDF : 18920551.6/72

In: 0.007+/-0.000 χ^2/NDF :31852237.6/57

Out: 0.008+/-0.000 χ^2/NDF :35885014.9/62

All: 0.008+/-0.000 χ^2/NDF : 67841307.4/120

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.160 $\pm$ 0.000 χ^2 /NDF: 227440693019.9/34

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 1.239 $\pm$ 0.000 χ^2 /NDF: 202317428397.7/37

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000 χ^2 /NDF: 6439465655.5/47

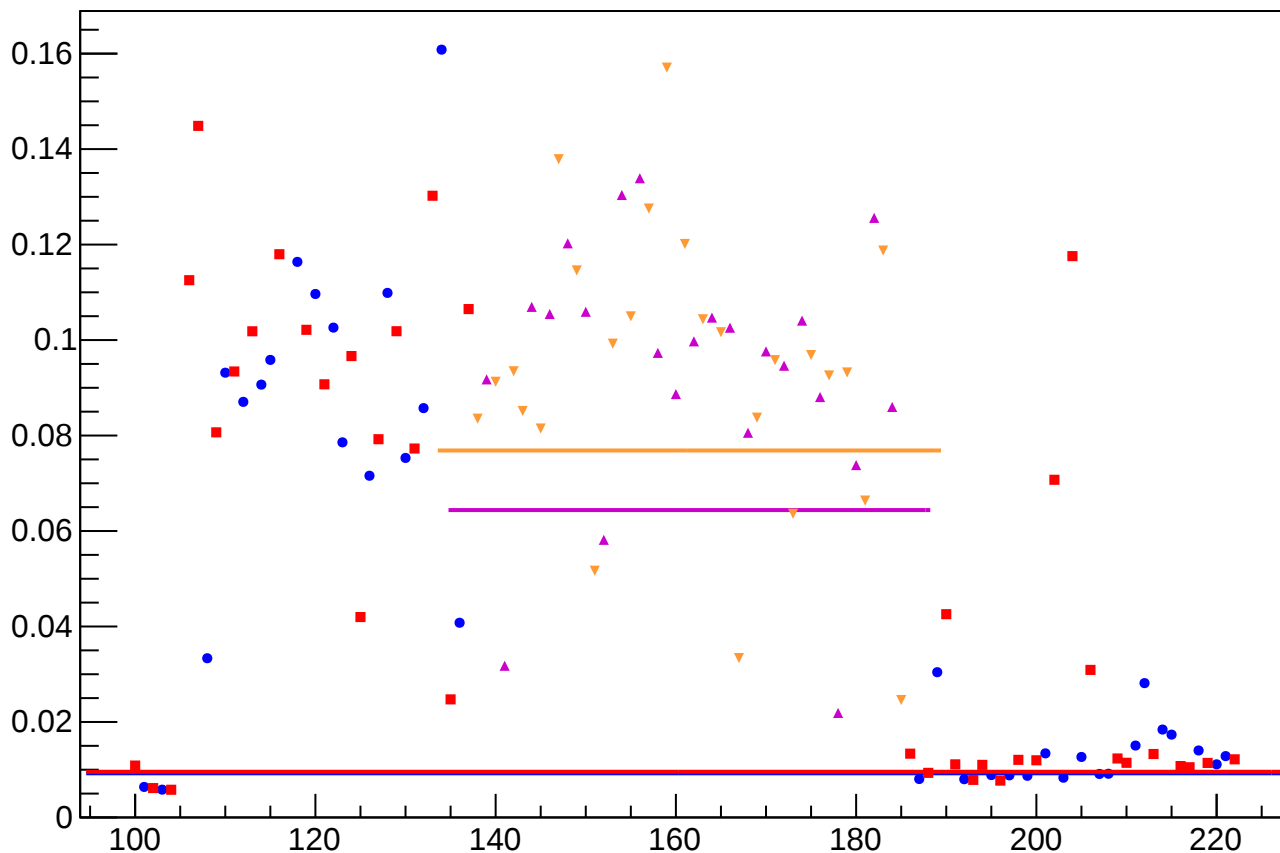
Right: 1.198 $\pm$ 0.000 χ^2 /NDF: 429956073922.8/72

In: 1.123 $\pm$ 0.000 χ^2 /NDF: 233116205198.0/57

Out: 1.201 $\pm$ 0.000 χ^2 /NDF: 208060295215.4/62

All: 1.160 $\pm$ 0.000 χ^2 /NDF: 441379313163.0

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8676554.7/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 10438282.8/37

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

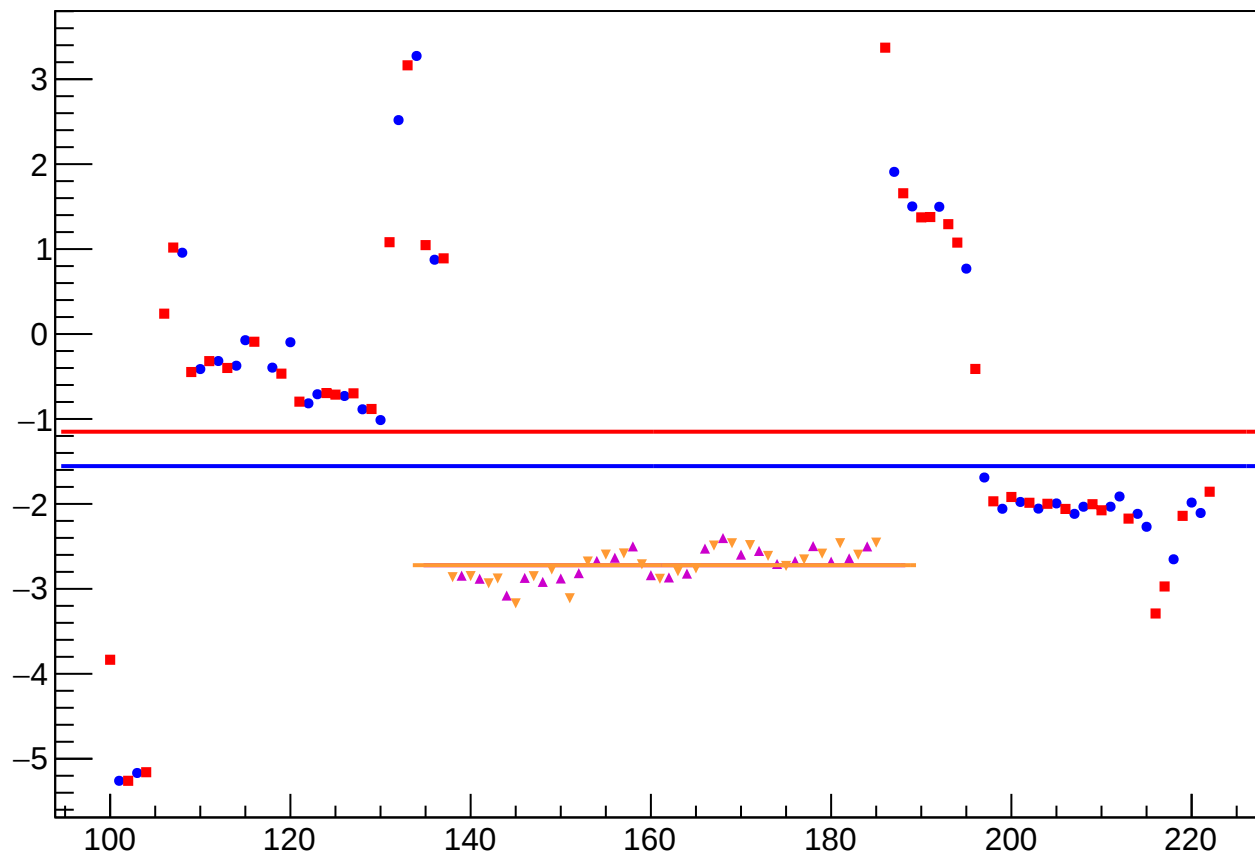
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 19121399.0/72

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30762755.6/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34453890.5/62

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65246639.5/120

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.555+/-0.000 χ^2/NDF : 210448700099.6/34

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.150+/-0.000 χ^2/NDF : 252164159092.3/37

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

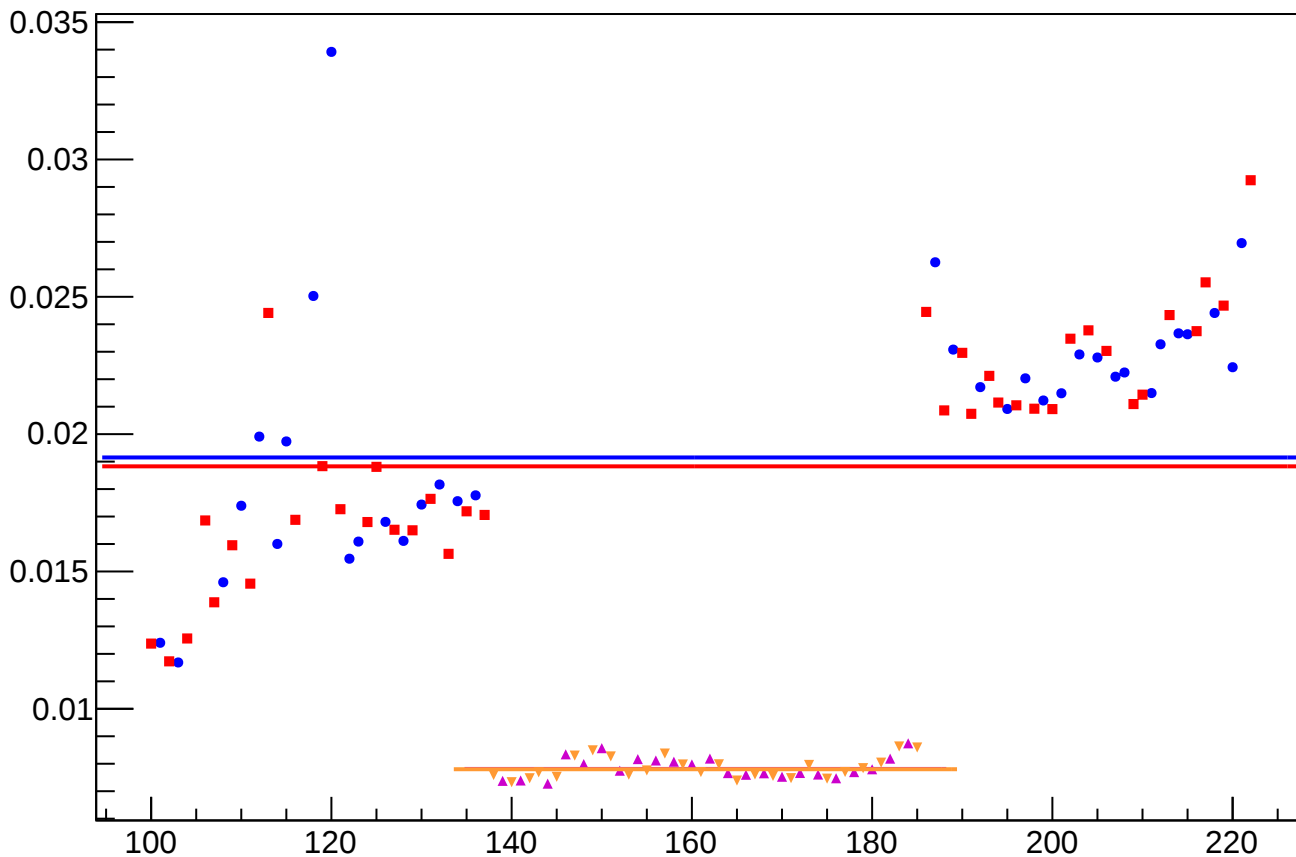
Right: -1.344+/-0.000 χ^2/NDF : 466640071602.6/72

In: -2.550+/-0.000 χ^2/NDF : 273414050789.9/57

Out: -2.486+/-0.000 χ^2/NDF : 370007138922.3/62

All: -2.517+/-0.000 χ^2/NDF : 644101719650.2

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1753907.4/34

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.019+/-0.000 χ^2/NDF : 1872303.0/37

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

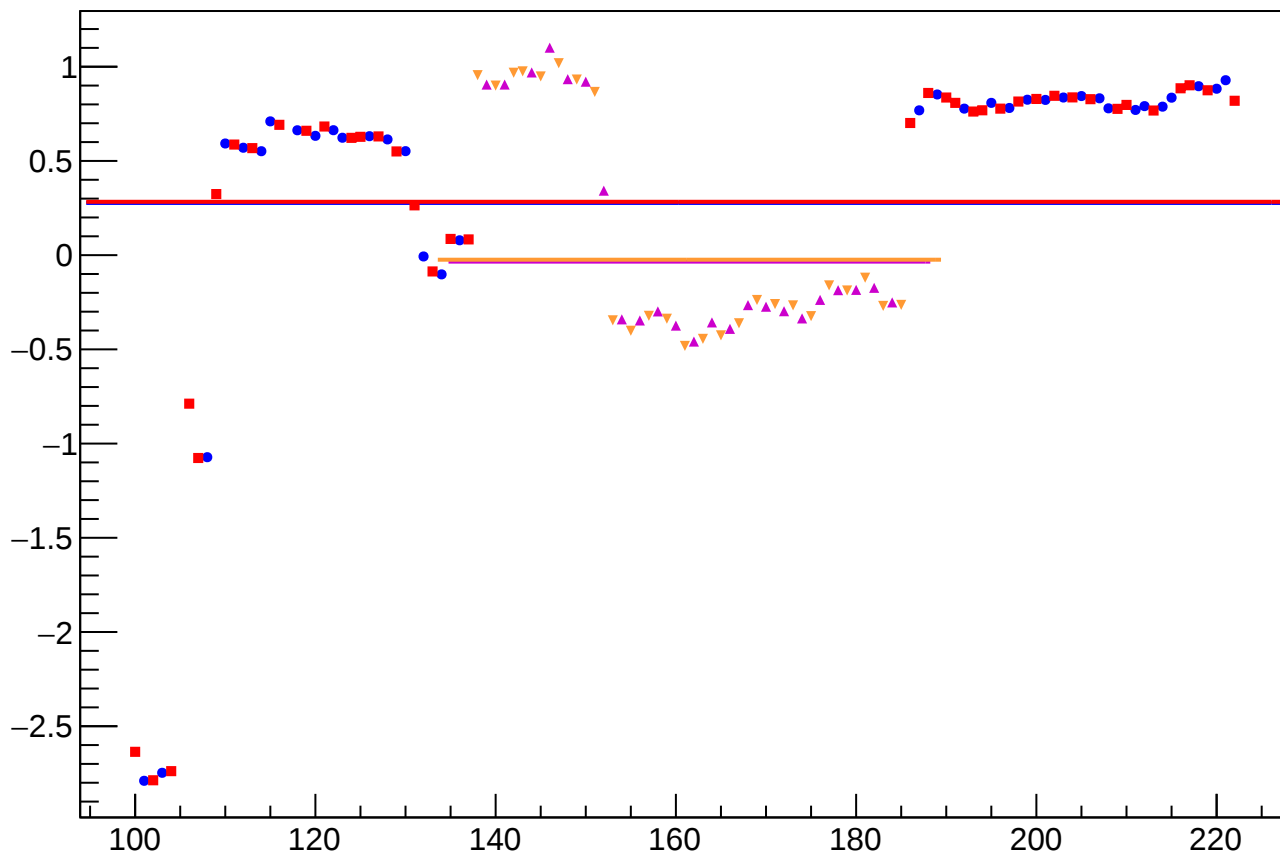
Right: 0.019+/-0.000 χ^2/NDF : 3631354.1/72

In: 0.009+/-0.000 χ^2/NDF : 12175103.3/57

Out: 0.009+/-0.000 χ^2/NDF : 12526900.0/62

All: 0.009+/-0.000 χ^2/NDF : 24702275.3/120

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.277+/-0.000

χ^2/NDF : 919754748098.6/34

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.280+/-0.000

χ^2/NDF : 1896671415135.8/72

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.171+/-0.000

χ^2/NDF : 1063506564613.9/57

Right Out: 0.283+/-0.000

χ^2/NDF : 976898786533.1/37

Out: 0.183+/-0.000

χ^2/NDF : 1143033540824.9/62

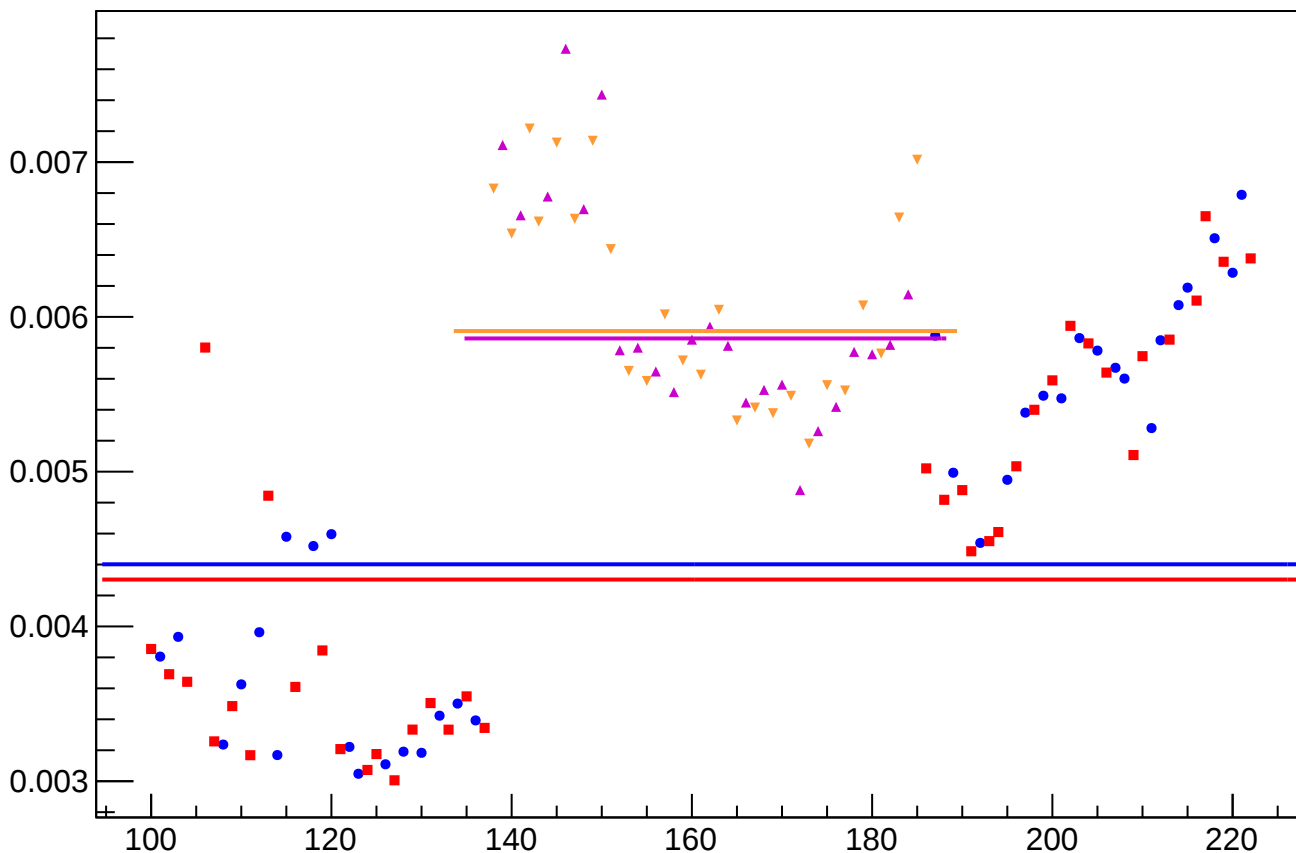
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.177+/-0.000

χ^2/NDF : 2206629810899.6/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2278227.9/34

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2356790.2/37

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

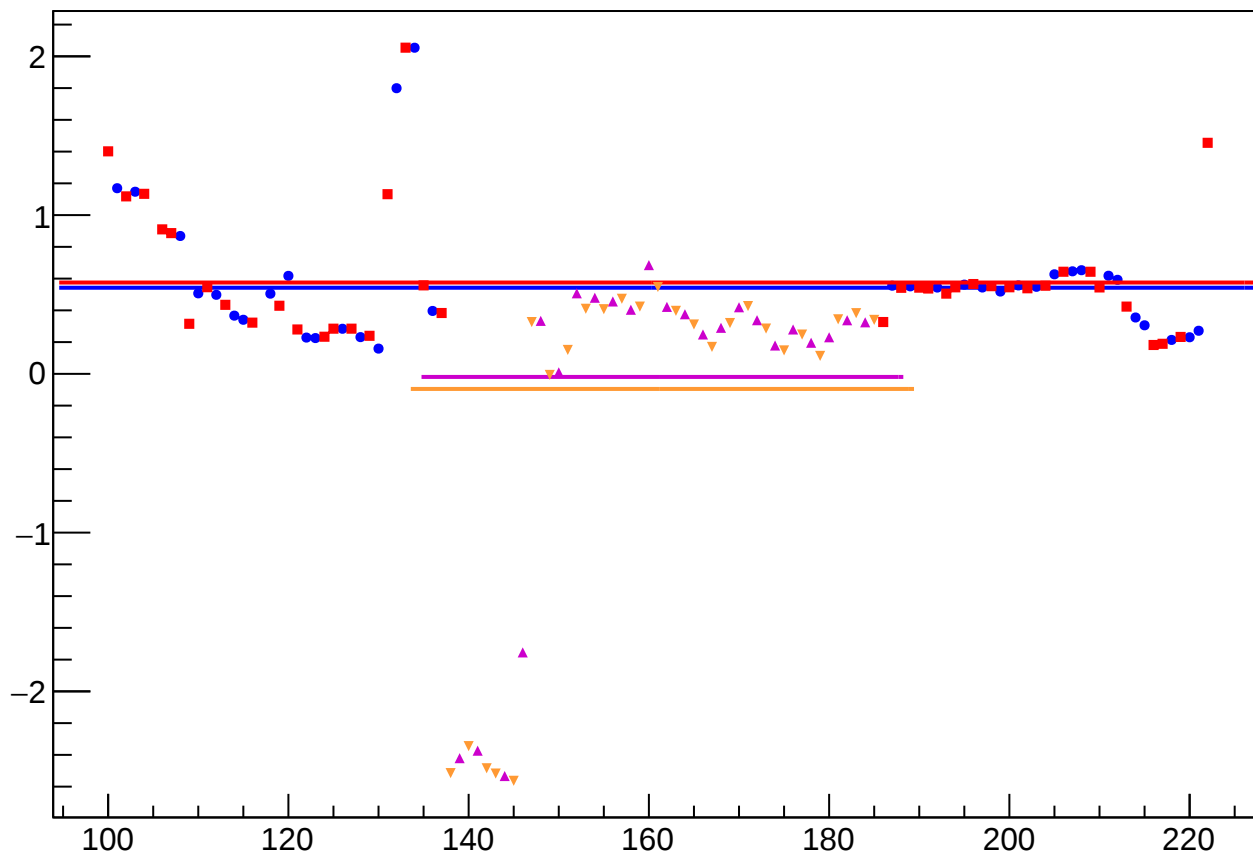
Right: 0.004+/-0.000 χ^2/NDF : 4644184.7/72

In: 0.005+/-0.000 χ^2/NDF :3952560.0/57

Out: 0.005+/-0.000 χ^2/NDF :4345198.8/62

All: 0.005+/-0.000 χ^2/NDF : 8304367.8/120

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.542 $\pm$ 0.000 χ^2/NDF : 64372816902.1/34

Left Out: -0.095 $\pm$ 0.000 χ^2/NDF : 505606573631.9/24

Right Out: 0.575 $\pm$ 0.000 χ^2/NDF : 114245598365.4/37

Left In: -0.019 $\pm$ 0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058 $\pm$ 0.000 χ^2/NDF : 924153662333.7/47

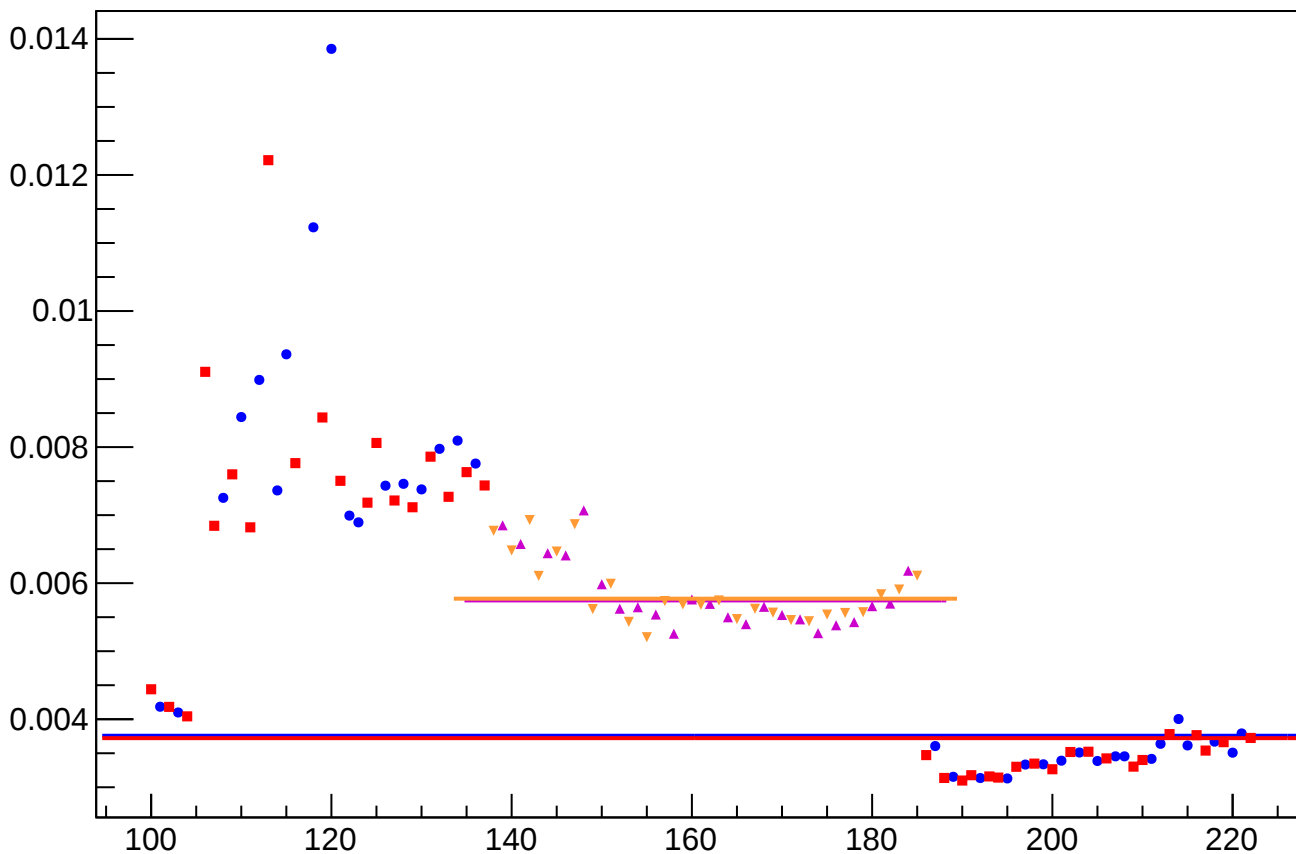
Right: 0.560 $\pm$ 0.000 χ^2/NDF : 179274980951.9/72

In: 0.376 $\pm$ 0.000 χ^2/NDF : 591198672407.0/57

Out: 0.382 $\pm$ 0.000 χ^2/NDF : 784474646909.4/62

All: 0.379 $\pm$ 0.000 χ^2/NDF : 1375697029041.0/127

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3161992.7/34

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3198606.3/37

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

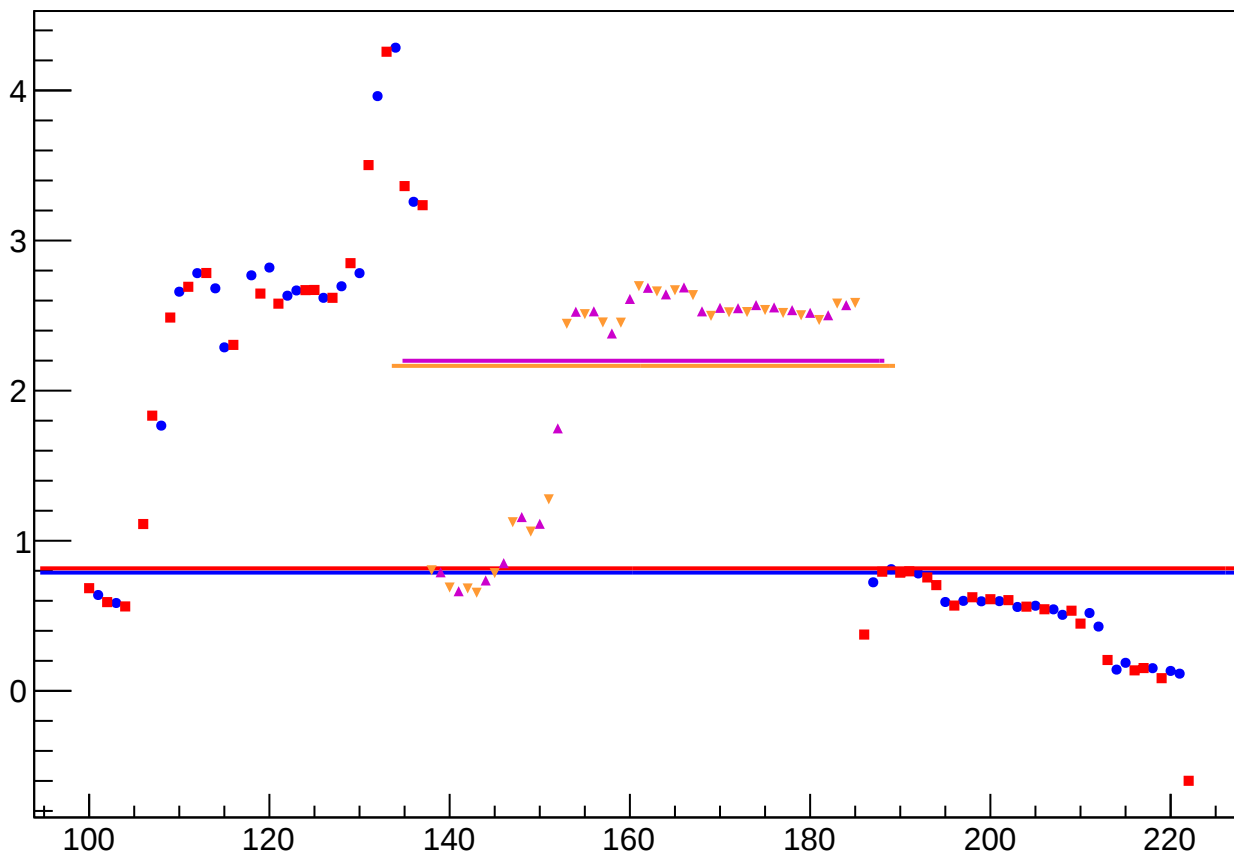
Right: 0.004+/-0.000 χ^2/NDF : 6362090.0/72

In: 0.004+/-0.000 χ^2/NDF :6117888.5/57

Out: 0.004+/-0.000 χ^2/NDF :6456333.0/62

All: 0.004+/-0.000 χ^2/NDF : 12575859.3/120

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.788+/-0.000 χ^2/NDF : 352614510426.8/34

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.816+/-0.000 χ^2/NDF : 421717853017.6/37

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

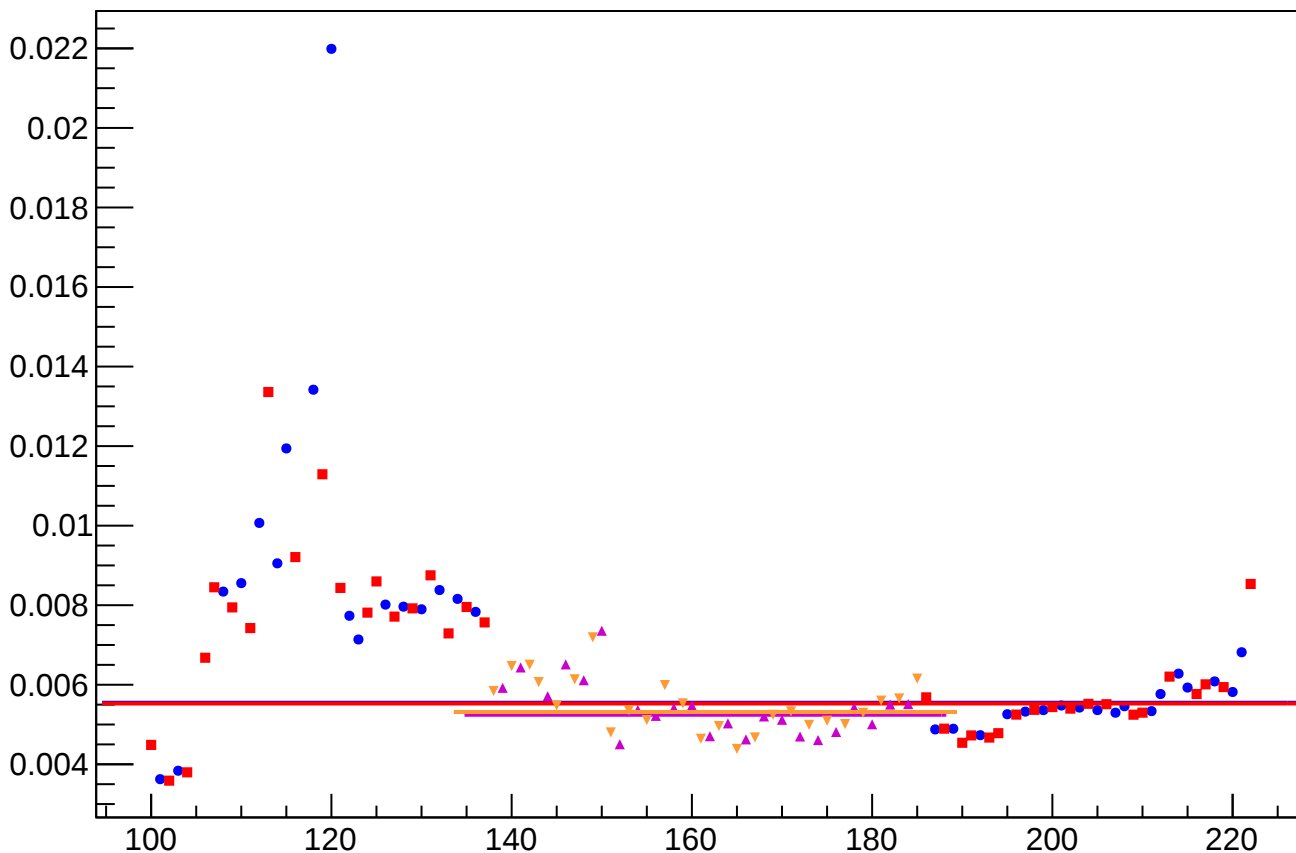
Right: 0.803+/-0.000 χ^2/NDF : 774562528084.4/72

In: 1.505+/-0.000 χ^2/NDF : 1166738826579.0/57

Out: 1.490+/-0.000 χ^2/NDF : 1249333905977.9/62

All: 1.497+/-0.000 χ^2/NDF : 2416197132604.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2093464.2/34

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2126044.1/37

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

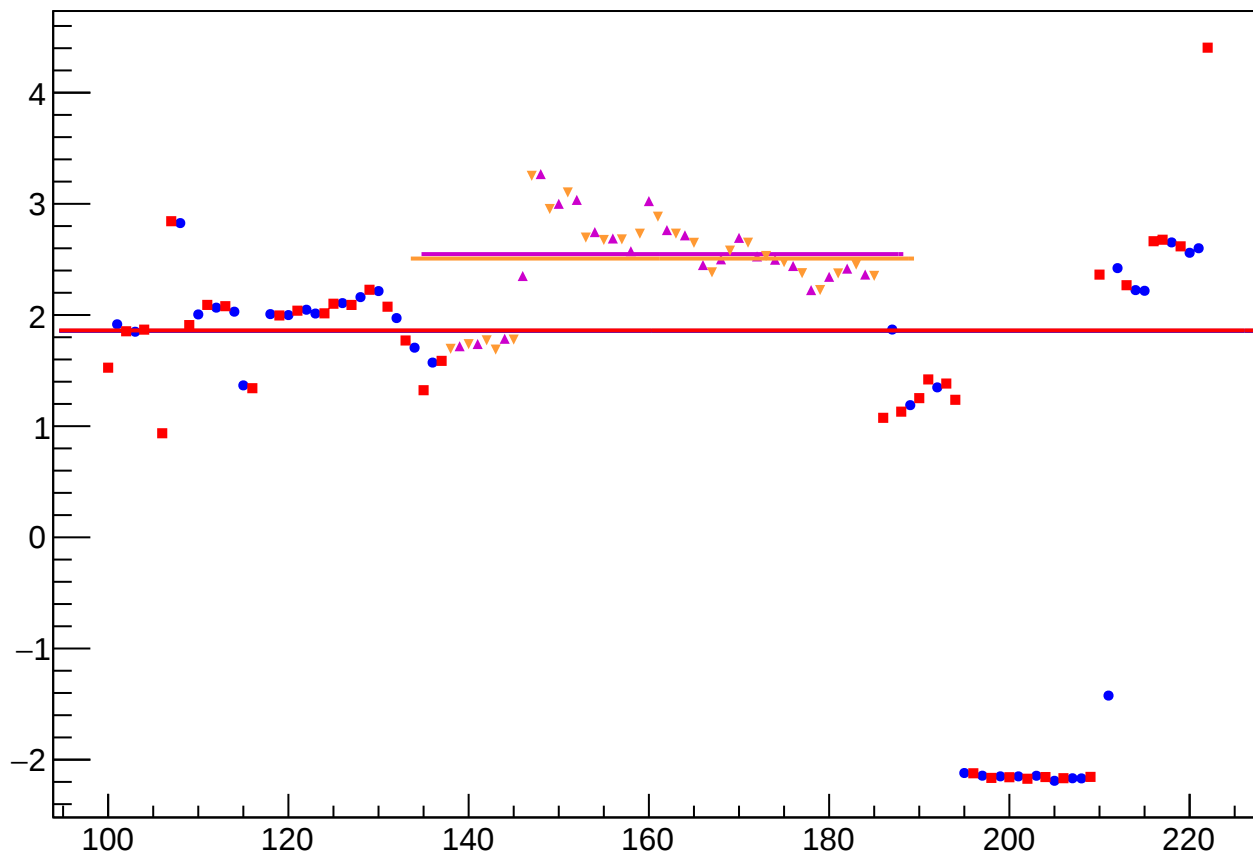
Right: 0.006+/-0.000 χ^2/NDF : 4219714.0/72

In: 0.005+/-0.000 χ^2/NDF :2570752.3/57

Out: 0.005+/-0.000 χ^2/NDF :2551631.3/62

All: 0.005+/-0.000 χ^2/NDF : 5123276.9/120

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.857 $\pm$ 0.000 χ^2 /NDF: 174548622955.2/34

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.861 $\pm$ 0.000 χ^2 /NDF: 198029398874.3/37

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

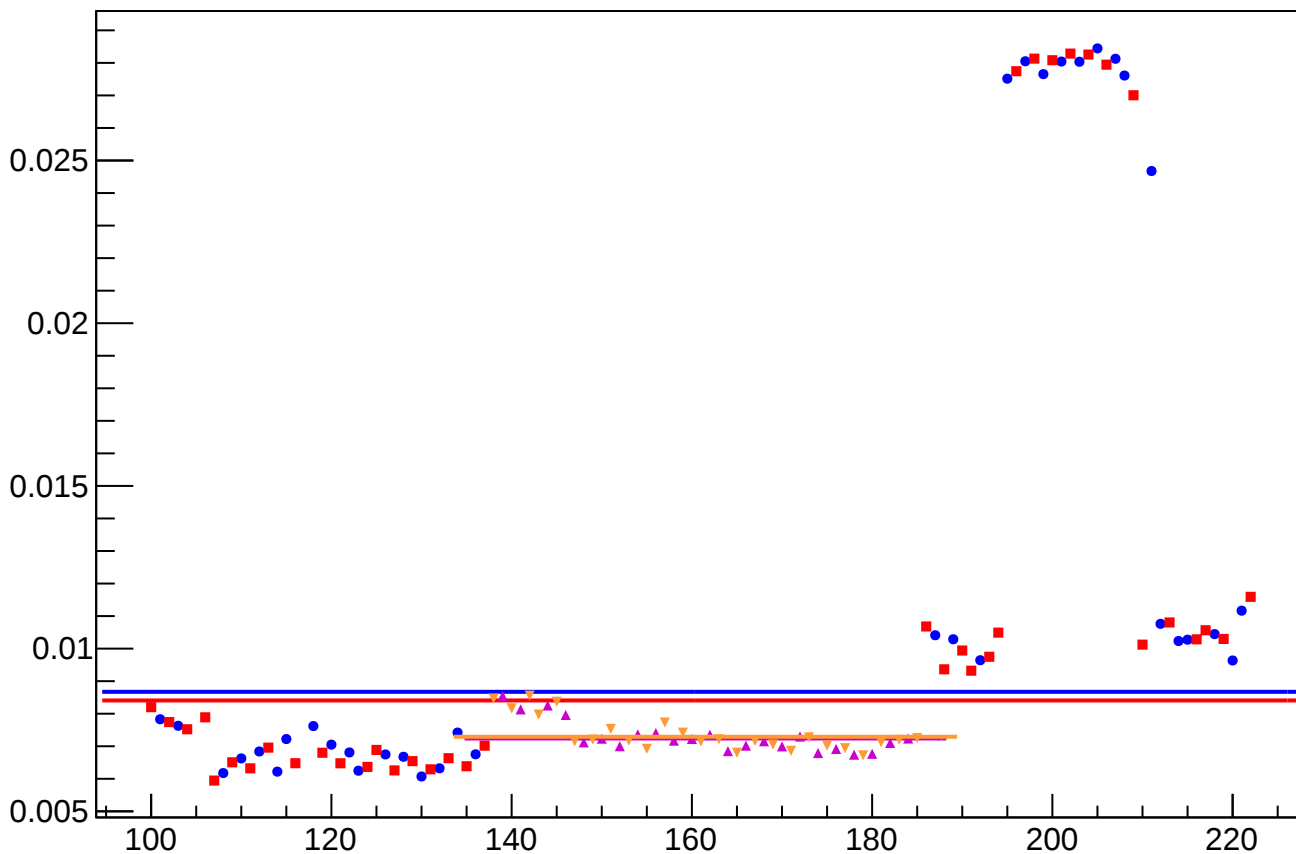
Right: 1.859 $\pm$ 0.000 χ^2 /NDF: 372579591229.6/72

In: 2.282 $\pm$ 0.000 χ^2 /NDF: 278079748068.9/57

Out: 2.242 $\pm$ 0.000 χ^2 /NDF: 306884495589.6/62

All: 2.261 $\pm$ 0.000 χ^2 /NDF: 585395208800.6

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 7782287.8/34

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6702969.9/37

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

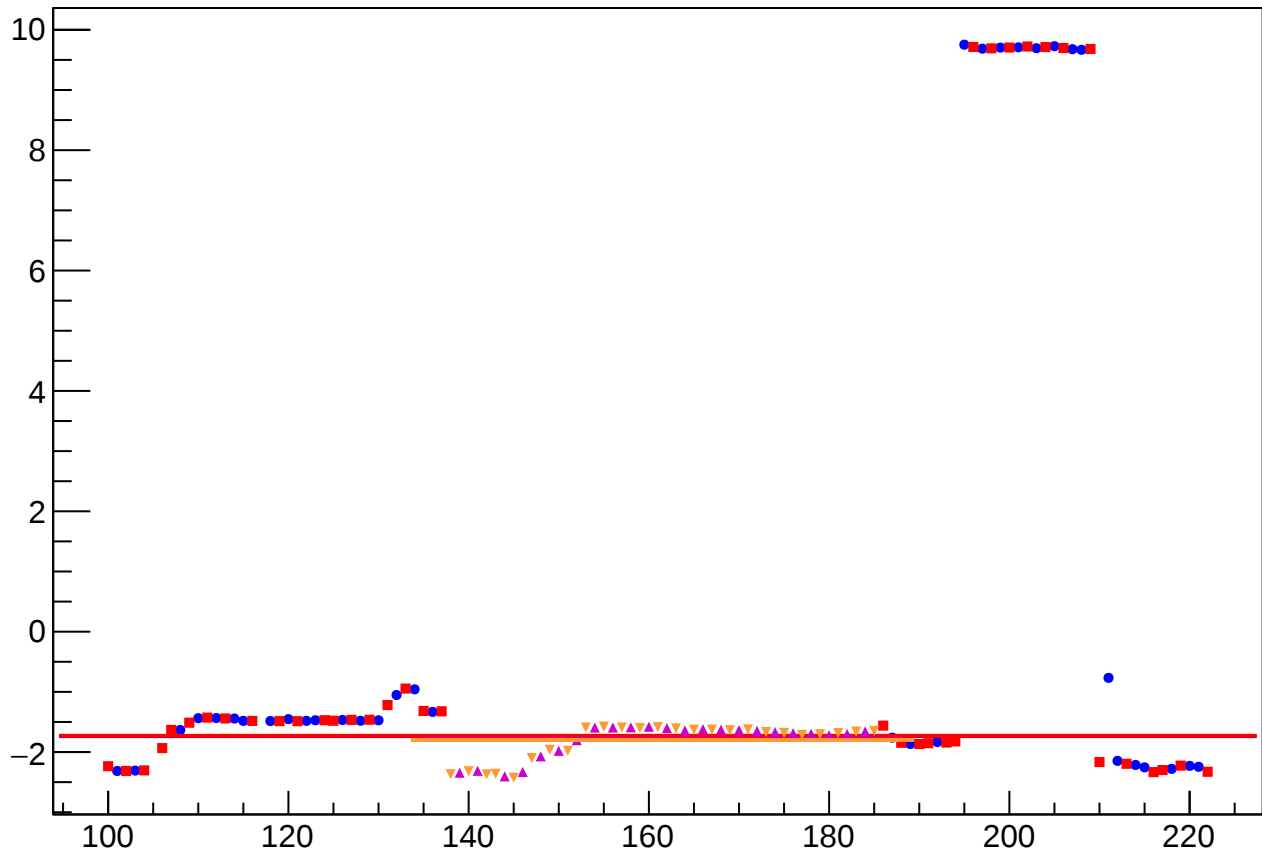
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 14500180.9/72

In: 0.008 $\pm$ 0.000 χ^2 /NDF:8409550.3/57

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:7180306.6/62

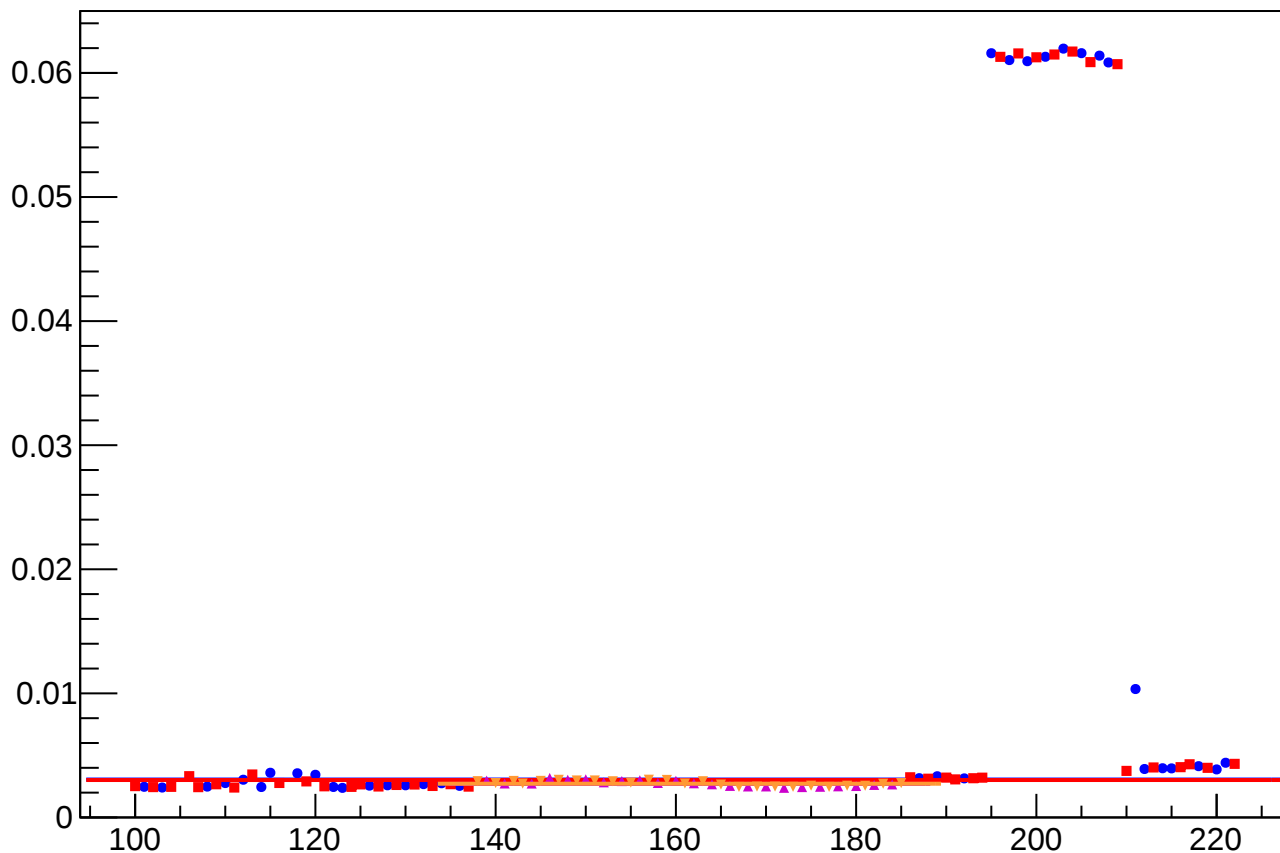
All: 0.008 $\pm$ 0.000 χ^2 /NDF: 15590703.9/120

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.735+/-0.000	χ^2/NDF : 436928457069.1/34	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.732+/-0.000	χ^2/NDF : 862607314482.6/72
Right Out: -1.730+/-0.000	χ^2/NDF : 425665209454.7/37	In: -1.770+/-0.000	χ^2/NDF : 599117011606.3/57
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.772+/-0.000	χ^2/NDF : 615423420012.5/62
		All: -1.771+/-0.000	χ^2/NDF : 1214546513833

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 12337218.7/34

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10625084.6/37

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

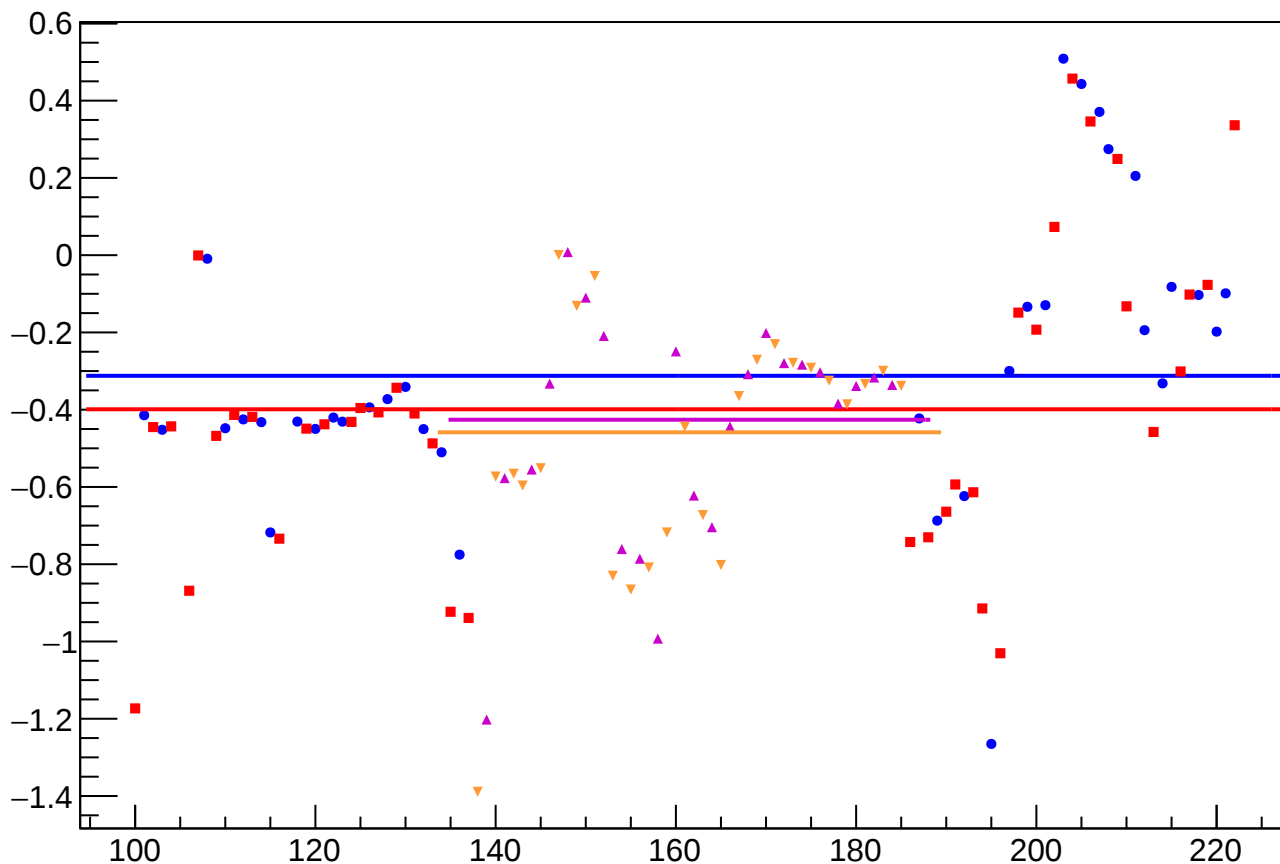
Right: 0.003+/-0.000 χ^2/NDF : 22964376.4/72

In: 0.003+/-0.000 χ^2/NDF :12764792.7/57

Out: 0.003+/-0.000 χ^2/NDF :10991383.9/62

All: 0.003+/-0.000 χ^2/NDF : 23756330.3/120

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.312 ± 0.000 $\chi^2/\text{NDF}: 11105560165.1/34$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.399 ± 0.000 $\chi^2/\text{NDF}: 11558478167.9/37$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

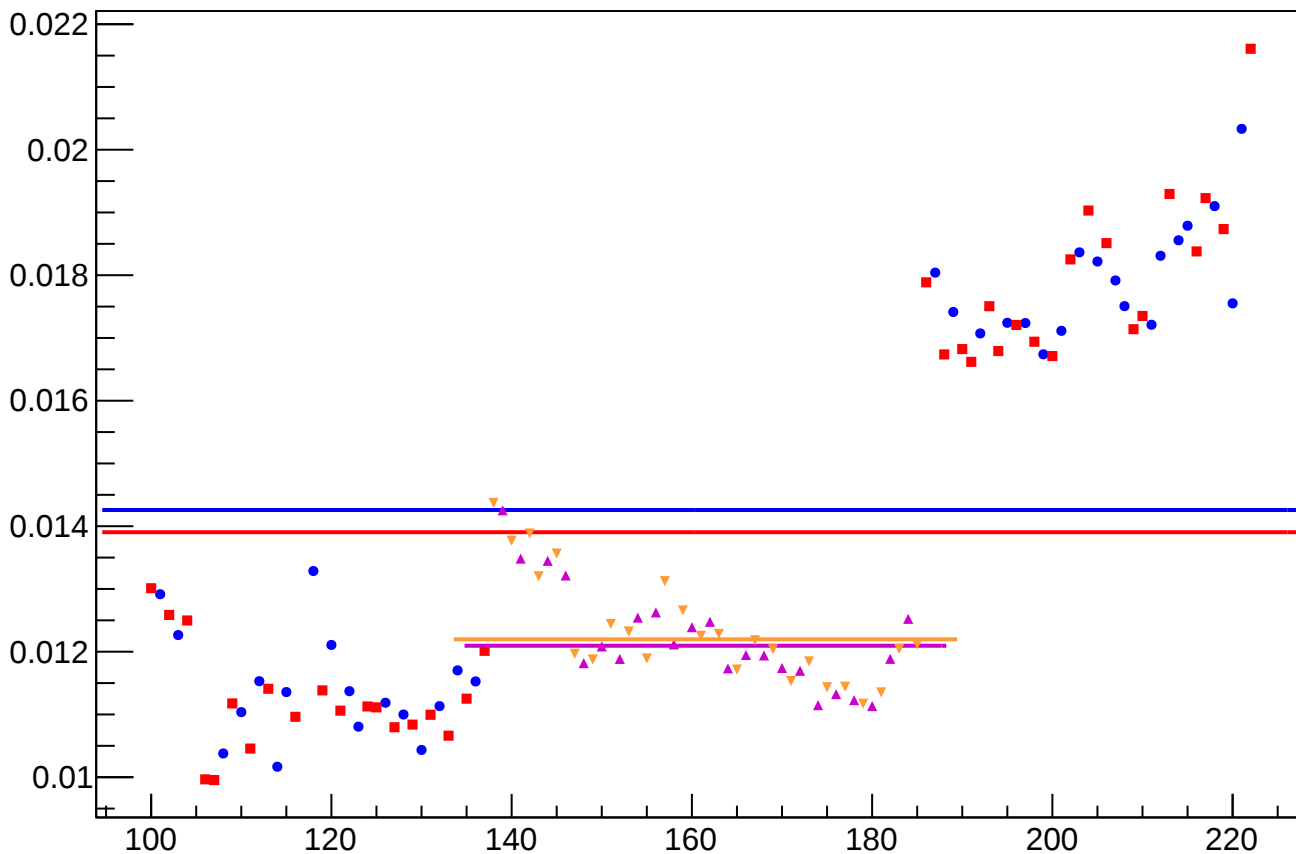
Right: -0.358 ± 0.000 $\chi^2/\text{NDF}: 23009976799.8/72$

In: -0.376 ± 0.000 $\chi^2/\text{NDF}: 20171150533.7/57$

Out: -0.432 ± 0.000 $\chi^2/\text{NDF}: 21662998317.8/62$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 42154420045.2/110$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1849351.7/34

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2284363.4/37

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

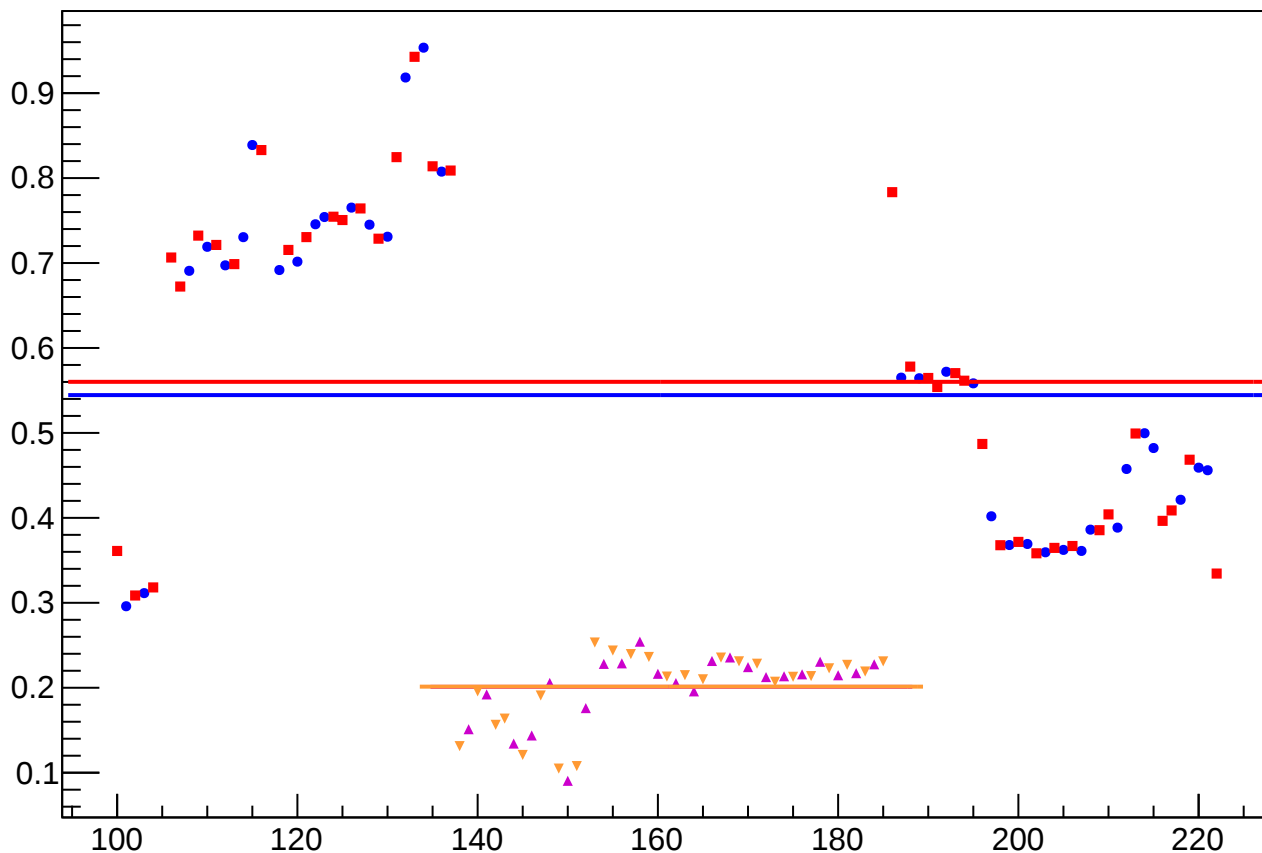
Right: 0.014+/-0.000 χ^2/NDF : 4145248.8/72

In: 0.013+/-0.000 χ^2/NDF :2441003.8/57

Out: 0.013+/-0.000 χ^2/NDF :2735391.0/62

All: 0.013+/-0.000 χ^2/NDF : 5177633.1/120

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.545 $\pm$ 0.000 χ^2 /NDF: 78474145032.6/34

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 80202559847.0/37

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

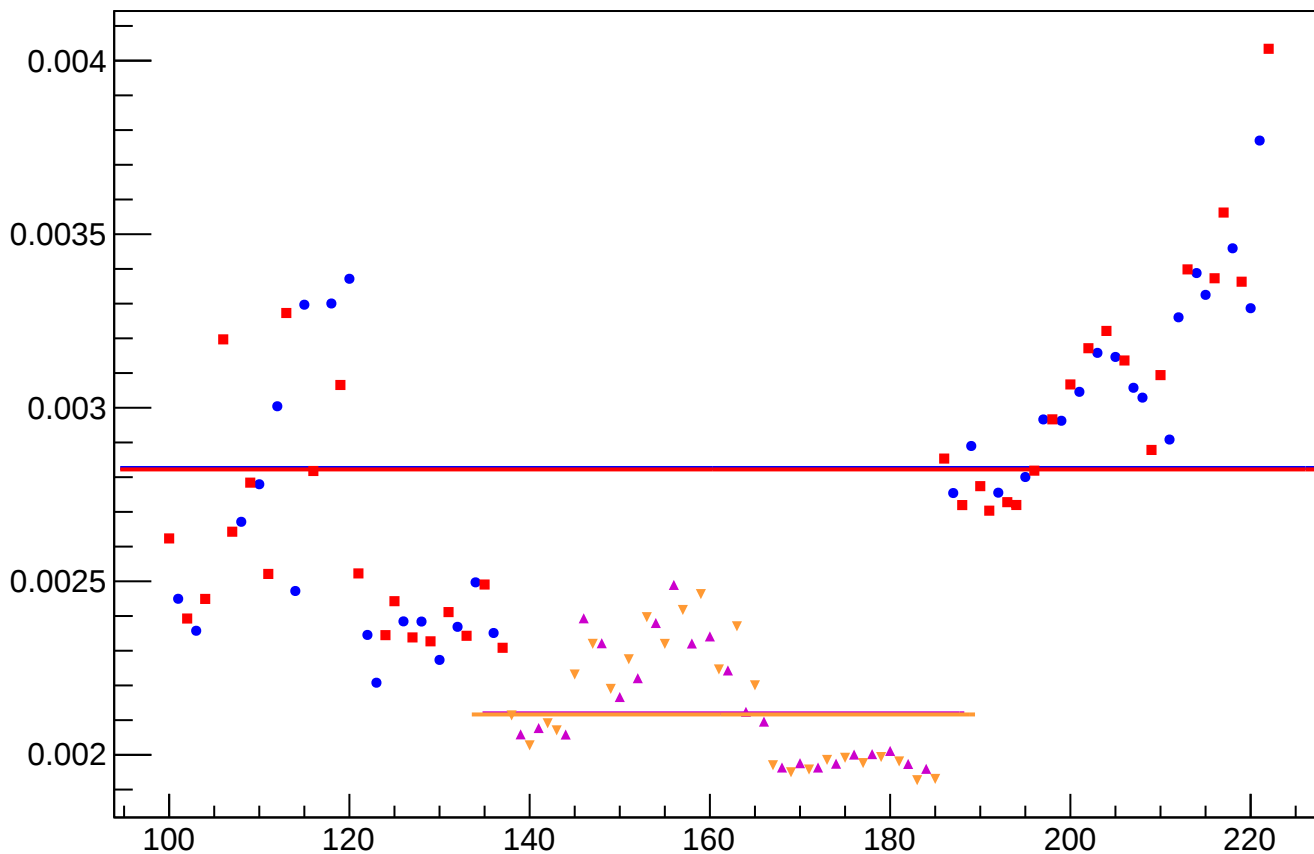
Right: 0.553 $\pm$ 0.000 χ^2 /NDF: 158965599865.8/72

In: 0.331 $\pm$ 0.000 χ^2 /NDF: 254190478071.3/57

Out: 0.336 $\pm$ 0.000 χ^2 /NDF: 282281228102.3/62

All: 0.333 $\pm$ 0.000 χ^2 /NDF: 536537635587.2

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 678493.5/34

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 708870.6/37

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

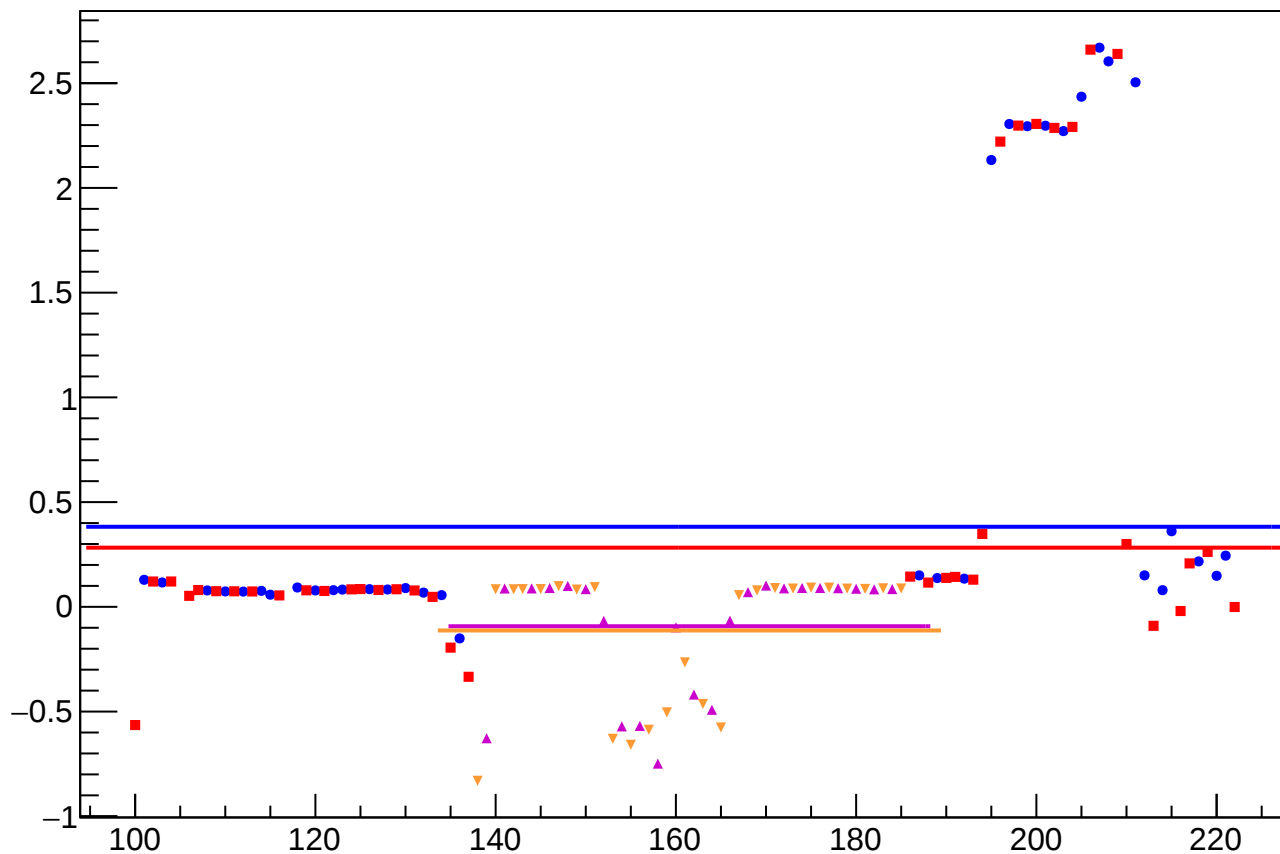
Right: 0.003+/-0.000 χ^2/NDF : 1387404.9/72

In: 0.002+/-0.000 χ^2/NDF :2307253.6/57

Out: 0.002+/-0.000 χ^2/NDF :2442618.9/62

All: 0.002+/-0.000 χ^2/NDF : 4750149.2/120

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.382+/-0.000

χ^2/NDF : 61657552514.9/34

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.329+/-0.000

χ^2/NDF : 114785436422.5/72

Right Out: 0.283+/-0.000

χ^2/NDF : 52592038881.3/37

In: 0.107+/-0.000

χ^2/NDF : 85893277415.4/57

Out: 0.062+/-0.000

χ^2/NDF : 76291366915.1/62

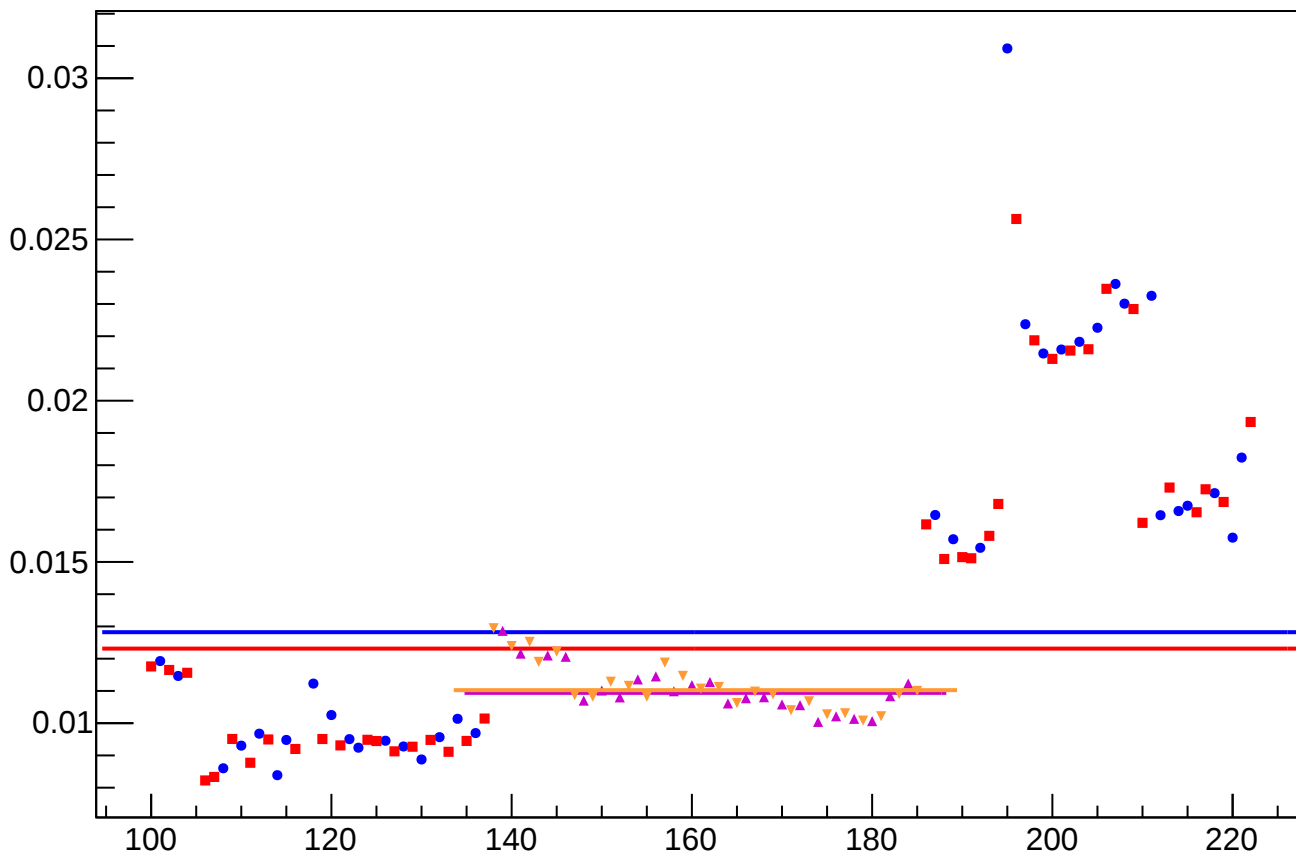
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.084+/-0.000

χ^2/NDF : 162436861993.8

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4705069.9/34

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4612233.8/37

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

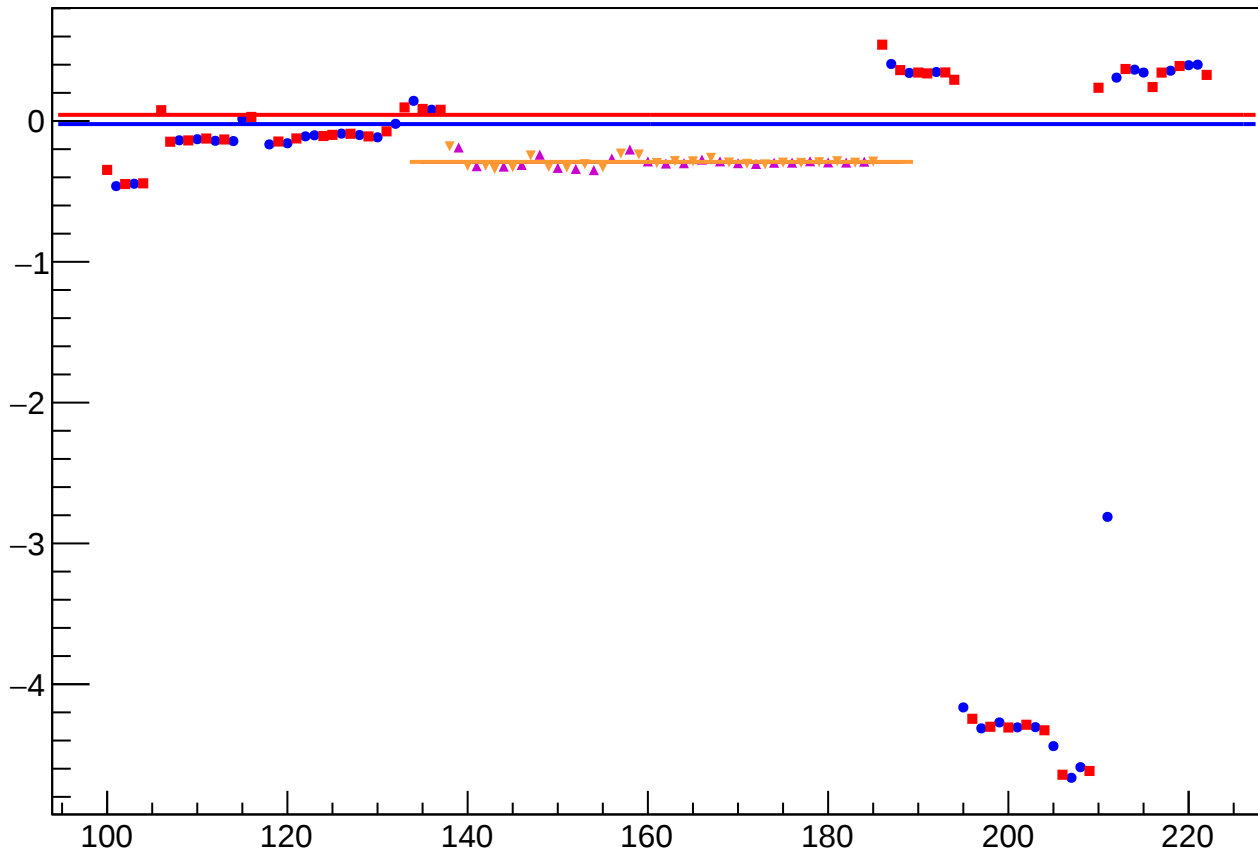
Right: 0.013+/-0.000 χ^2/NDF : 9345199.1/72

In: 0.012+/-0.000 χ^2/NDF :5247706.0/57

Out: 0.012+/-0.000 χ^2/NDF :4967109.4/62

All: 0.012+/-0.000 χ^2/NDF : 10219557.8/120

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.000

χ^2/NDF : 410048048036.9/34

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: 0.013+/-0.000

χ^2/NDF : 770805478550.7/72

Right Out: 0.044+/-0.000

χ^2/NDF : 359232654138.5/37

In: -0.229+/-0.000

χ^2/NDF : 450173187206.0/57

Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

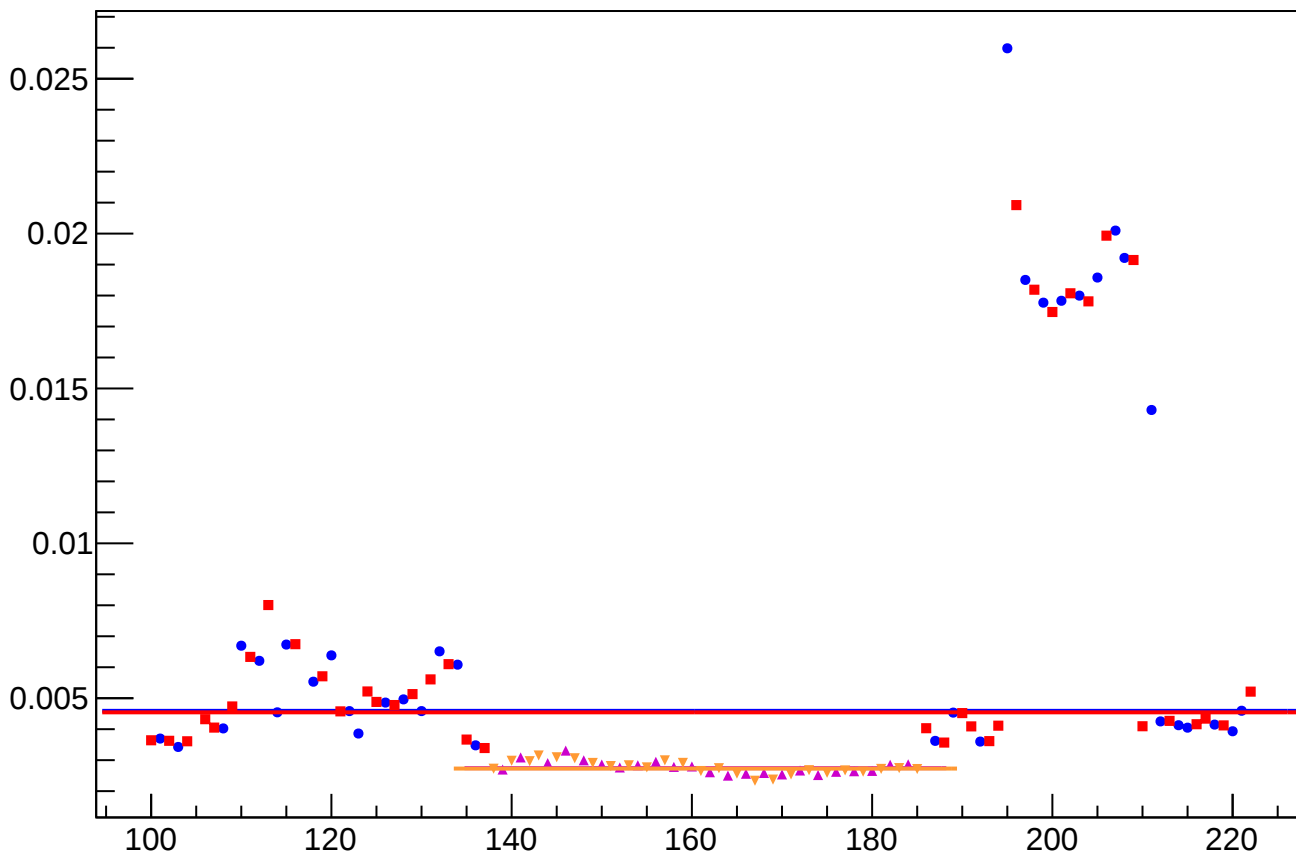
Out: -0.209+/-0.000

χ^2/NDF : 425960885079.9/62

All: -0.219+/-0.000

χ^2/NDF : 876687555036.4/100

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8651827.5/34

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 7020194.7/37

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

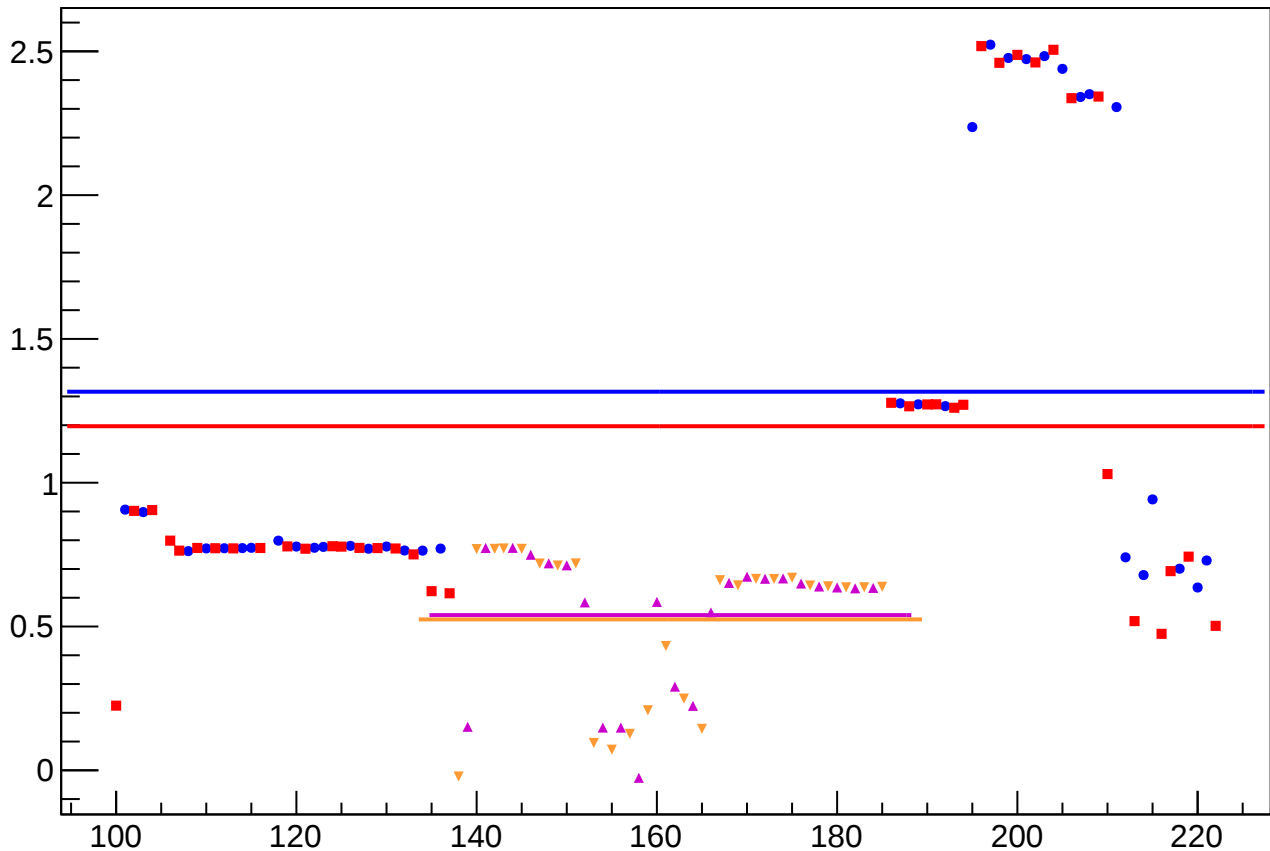
Right: 0.005+/-0.000 χ^2/NDF : 15673613.3/72

In: 0.003+/-0.000 χ^2/NDF :12292438.7/57

Out: 0.003+/-0.000 χ^2/NDF :10998744.4/62

All: 0.003+/-0.000 χ^2/NDF : 23291209.5/120

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.316+/-0.000

χ^2/NDF : 62584058524.1/34

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.254+/-0.000

χ^2/NDF : 122074887044.4/72

Right Out: 1.196+/-0.000

χ^2/NDF : 58659963007.6/37

In: 0.875+/-0.000

χ^2/NDF : 108415832996.4/57

Out: 0.821+/-0.000

χ^2/NDF : 98679731556.9/62

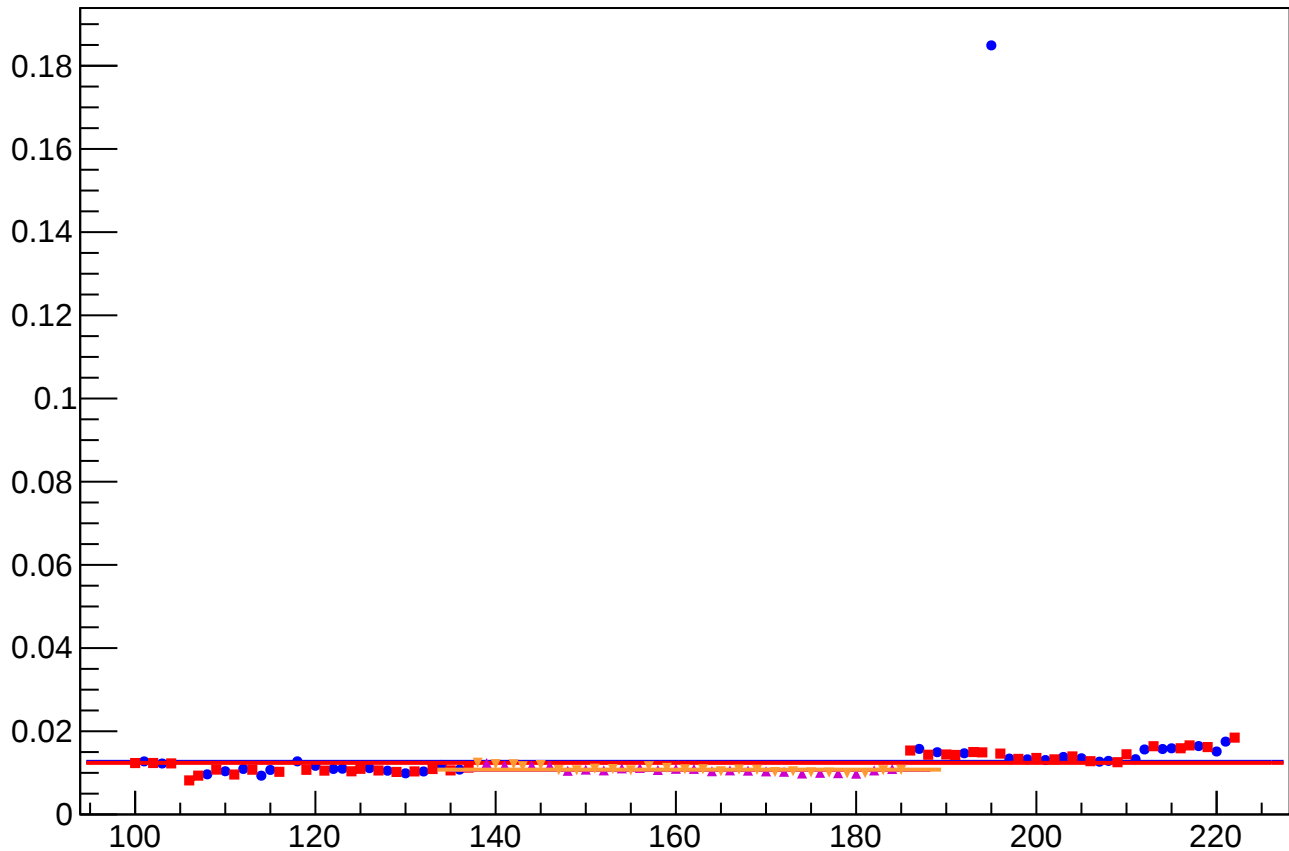
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.847+/-0.000

χ^2/NDF : 207469630950.9

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2314788.6/34

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 1314991.8/37

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

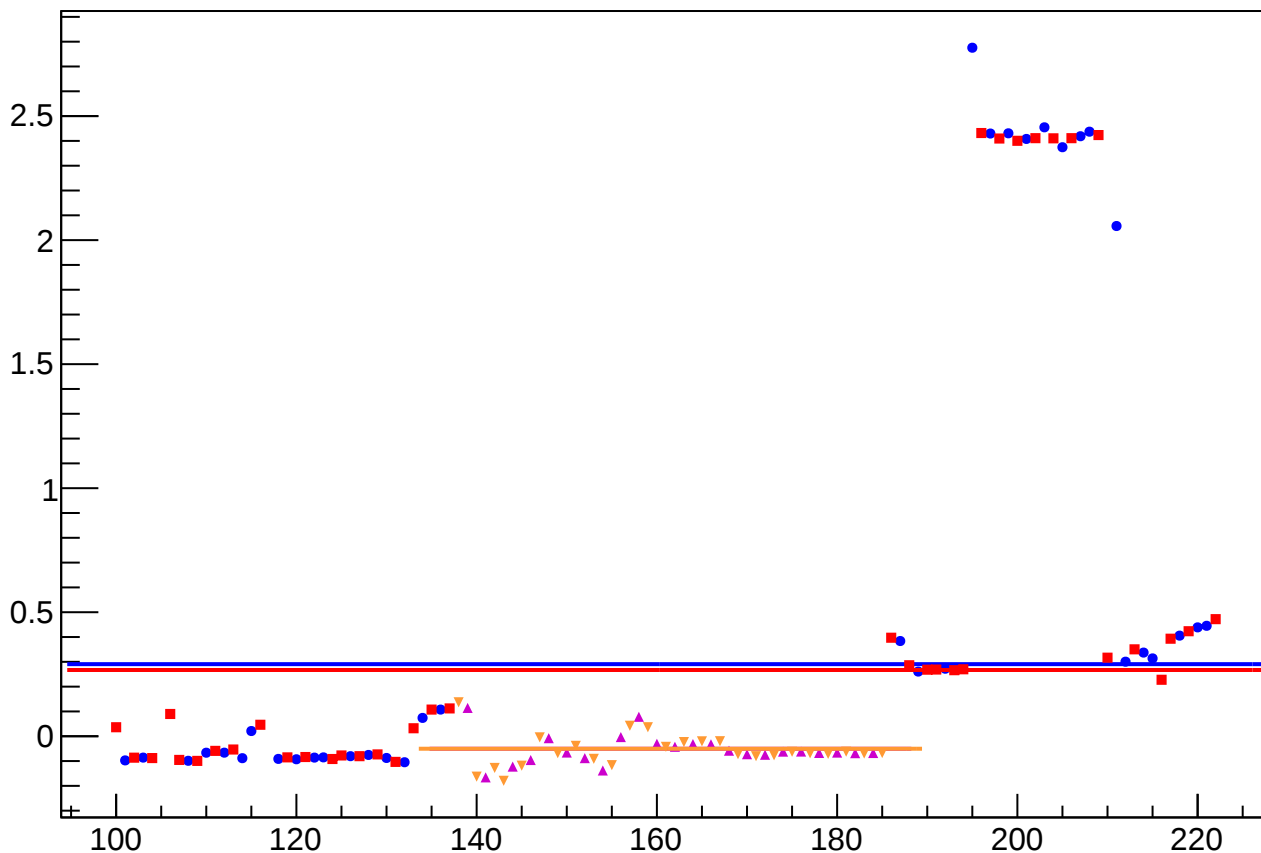
Right: 0.013+/-0.000 χ^2/NDF : 3636565.7/72

In: 0.012+/-0.000 χ^2/NDF :2915235.1/57

Out: 0.011+/-0.000 χ^2/NDF :1806848.7/62

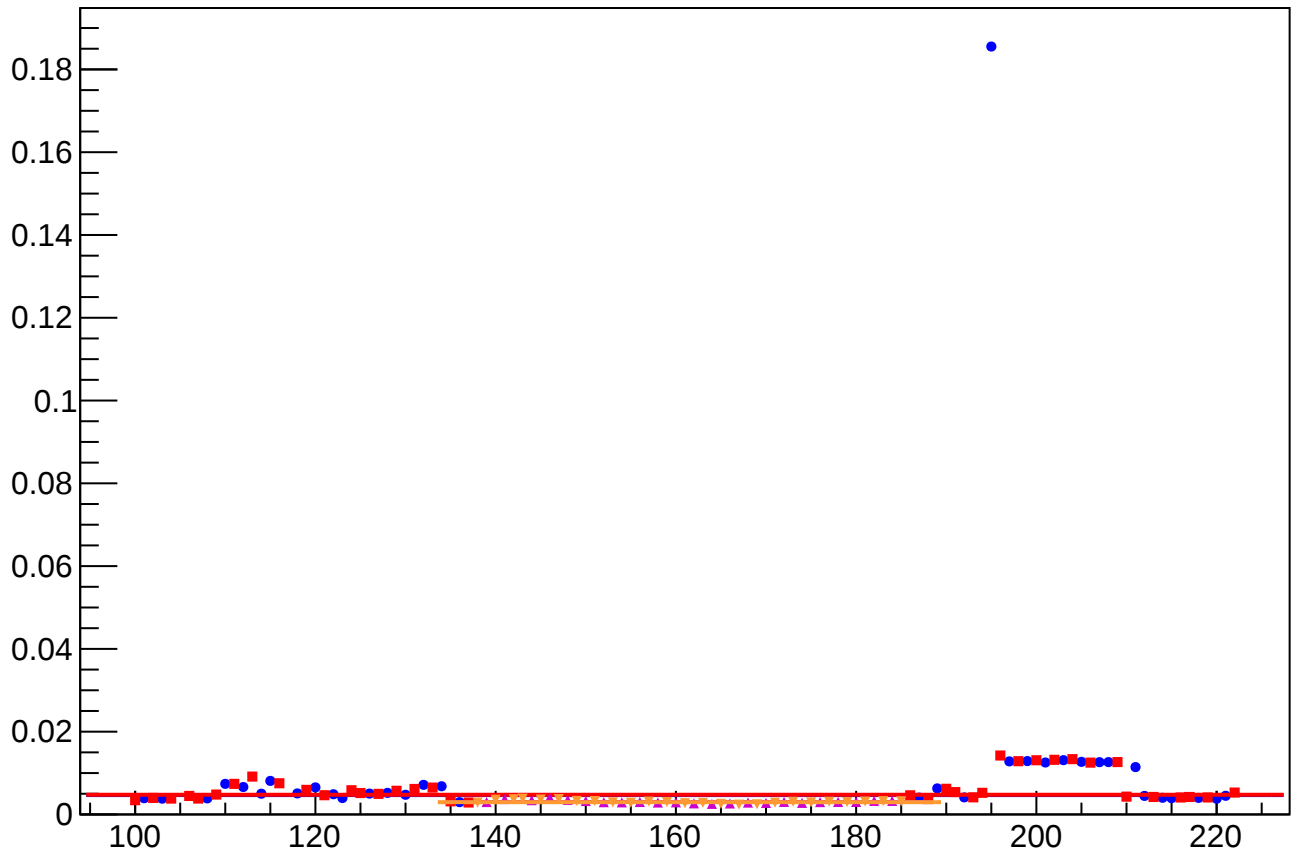
All: 0.012+/-0.000 χ^2/NDF : 4722577.0/120

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.291+/-0.000	χ^2/NDF : 198680918879.4/34	Left: -0.050+/-0.000	χ^2/NDF : 13400329490.2/47
Left Out: -0.050+/-0.000	χ^2/NDF : 7271496478.6/24	Right: 0.279+/-0.000	χ^2/NDF : 362582190025.1/72
Right Out: 0.267+/-0.000	χ^2/NDF : 163715260975.2/37	In: 0.041+/-0.000	χ^2/NDF : 260404493020.2/57
Left In: -0.051+/-0.000	χ^2/NDF : 6128769990.8/22	Out: 0.033+/-0.000	χ^2/NDF : 222363223171.0/62
		All: 0.037+/-0.000	χ^2/NDF : 482845583762.7

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7600590.4/34

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5278316.3/37

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

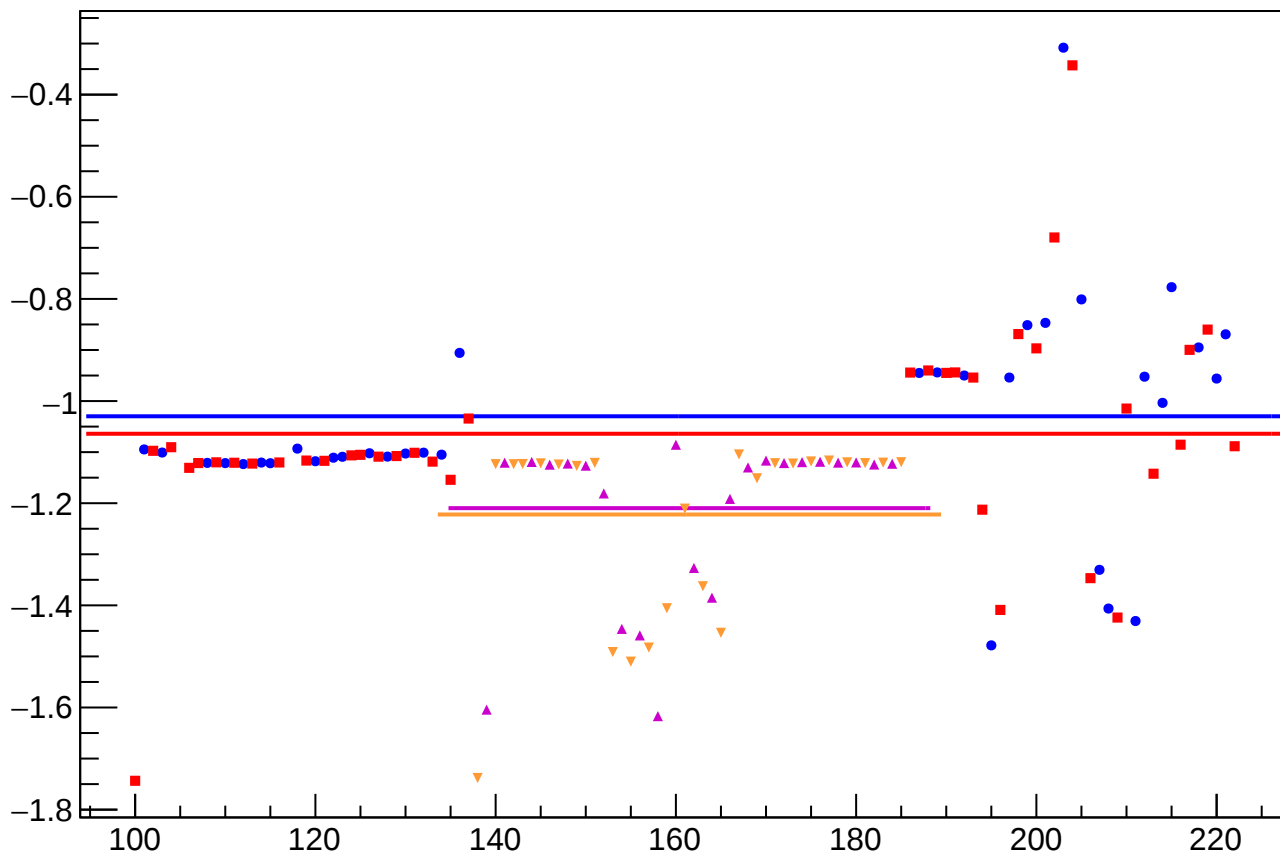
Right: 0.005+/-0.000 χ^2/NDF : 12882784.5/72

In: 0.003+/-0.000 χ^2/NDF : 10608420.2/57

Out: 0.003+/-0.000 χ^2/NDF : 9047912.0/62

All: 0.003+/-0.000 χ^2/NDF : 19657209.6/120

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.030 ± 0.000 $\chi^2/\text{NDF}: 6011344368.9/34$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.064 ± 0.000 $\chi^2/\text{NDF}: 4917130875.1/37$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

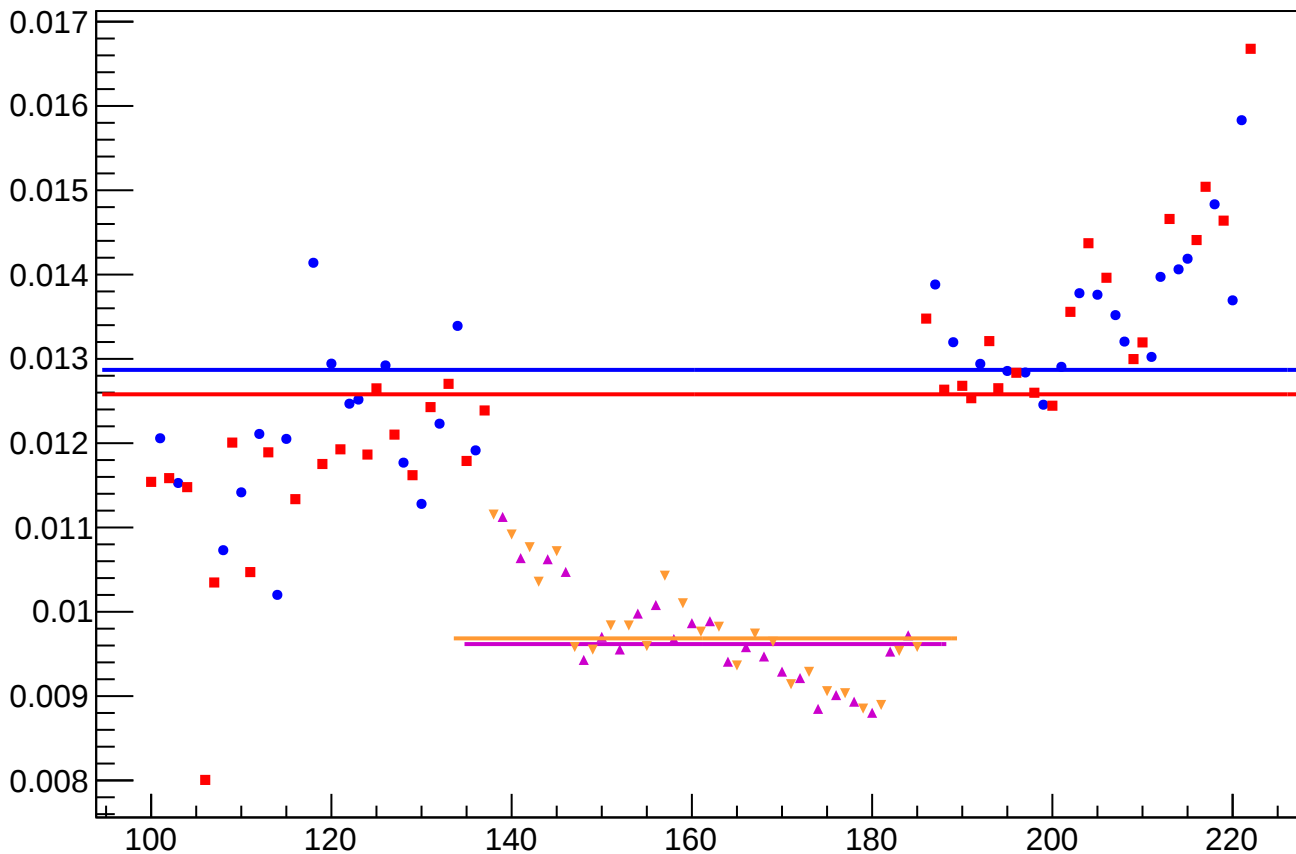
Right: -1.048 ± 0.000 $\chi^2/\text{NDF}: 10997367640.4/72$

In: -1.141 ± 0.000 $\chi^2/\text{NDF}: 12764615755.5/57$

Out: -1.160 ± 0.000 $\chi^2/\text{NDF}: 12059619401.2/62$

All: -1.151 ± 0.000 $\chi^2/\text{NDF}: 24880485045.1/119$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 243398.1/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 573994.3/37

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 255532.7/47

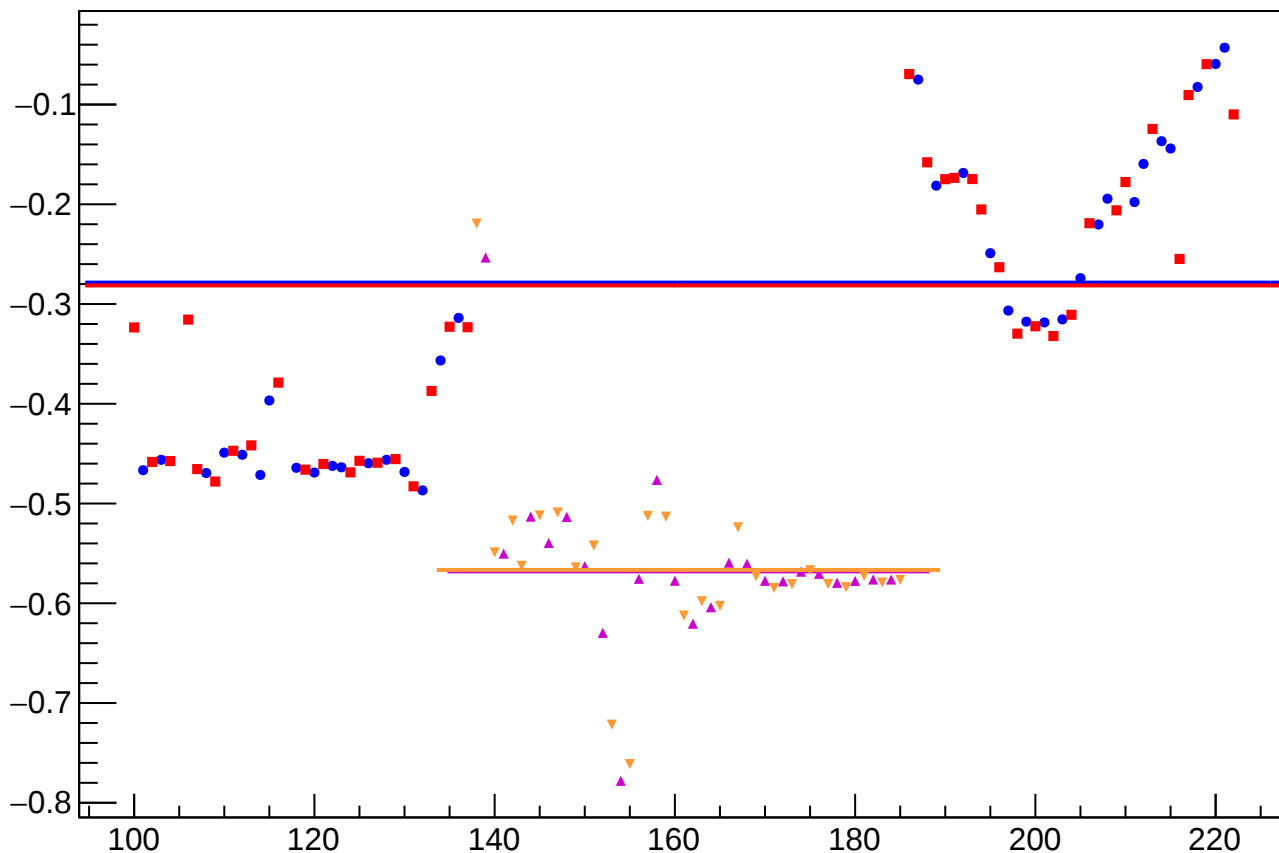
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 827269.9/72

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1835133.4/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1958371.7/62

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3794028.2/120

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.279+/-0.000 χ^2/NDF : 21019901652.4/34

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.281+/-0.000 χ^2/NDF : 20121524422.5/37

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

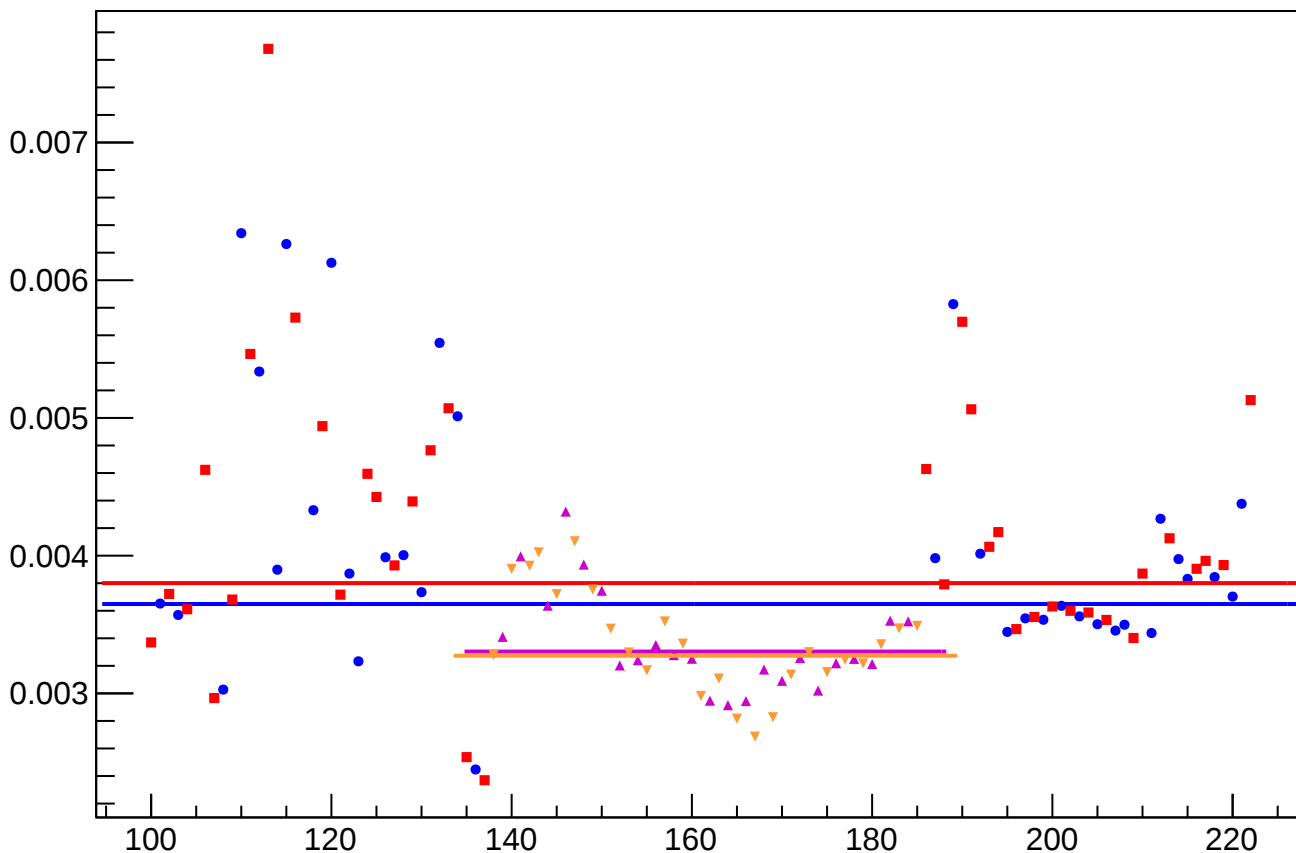
Right: -0.280+/-0.000 χ^2/NDF : 41146671691.5/72

In: -0.431+/-0.000 χ^2/NDF : 89958869686.9/57

Out: -0.440+/-0.000 χ^2/NDF : 91176658279.5/62

All: -0.436+/-0.000 χ^2/NDF : 181248789557.4

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 $\chi^2/\text{NDF}: 1079774.9/34$

Left Out: 0.003+/-0.000 $\chi^2/\text{NDF}: 394865.4/24$

Right Out: 0.004+/-0.000 $\chi^2/\text{NDF}: 1213632.5/37$

Left In: 0.003+/-0.000 $\chi^2/\text{NDF}: 286064.1/22$

Left: 0.003+/-0.000 $\chi^2/\text{NDF}: 682340.4/47$

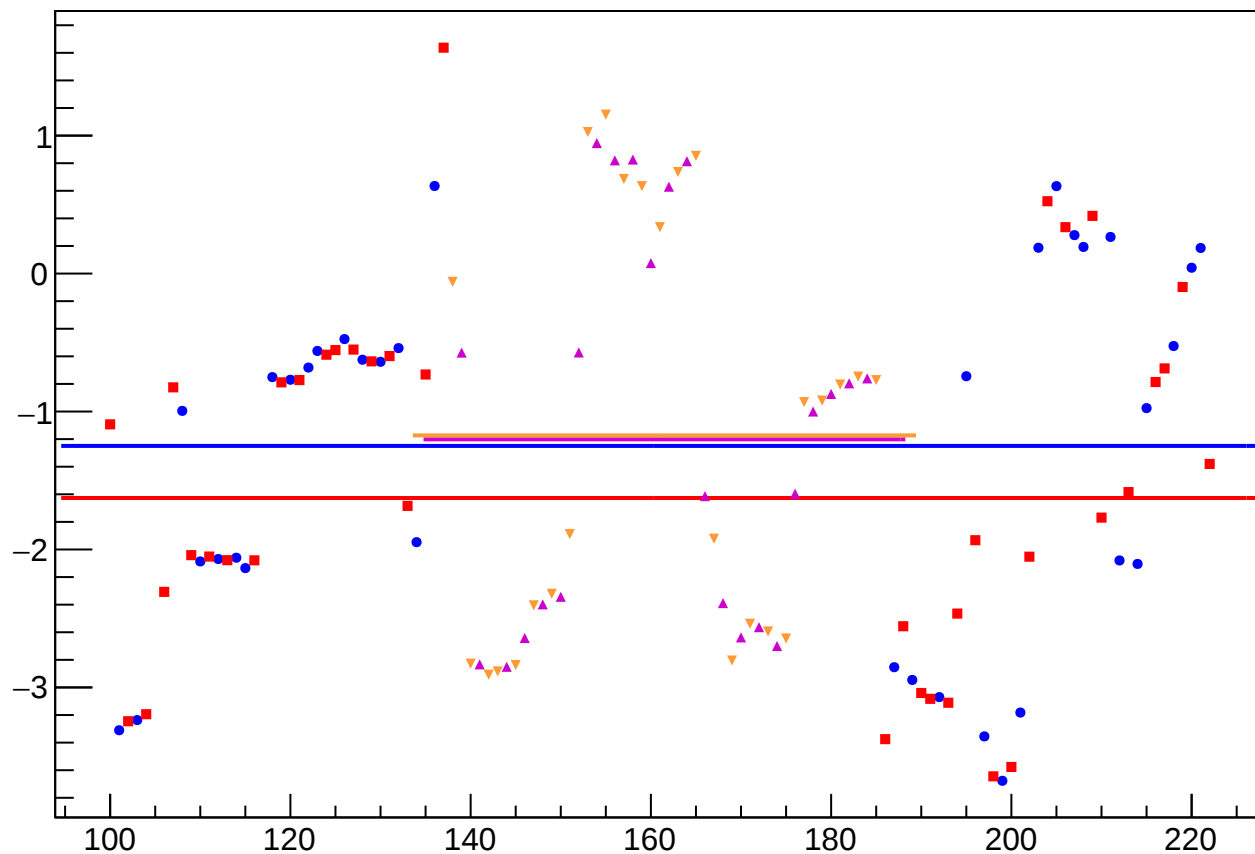
Right: 0.004+/-0.000 $\chi^2/\text{NDF}: 2323331.9/72$

In: 0.003+/-0.000 $\chi^2/\text{NDF}: 1532082.3/57$

Out: 0.004+/-0.000 $\chi^2/\text{NDF}: 2002867.3/62$

All: 0.003+/-0.000 $\chi^2/\text{NDF}: 3539555.2/120$

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.249+/-0.000 χ^2/NDF : 6646591123.4/34

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.627+/-0.000 χ^2/NDF : 5685796644.1/37

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

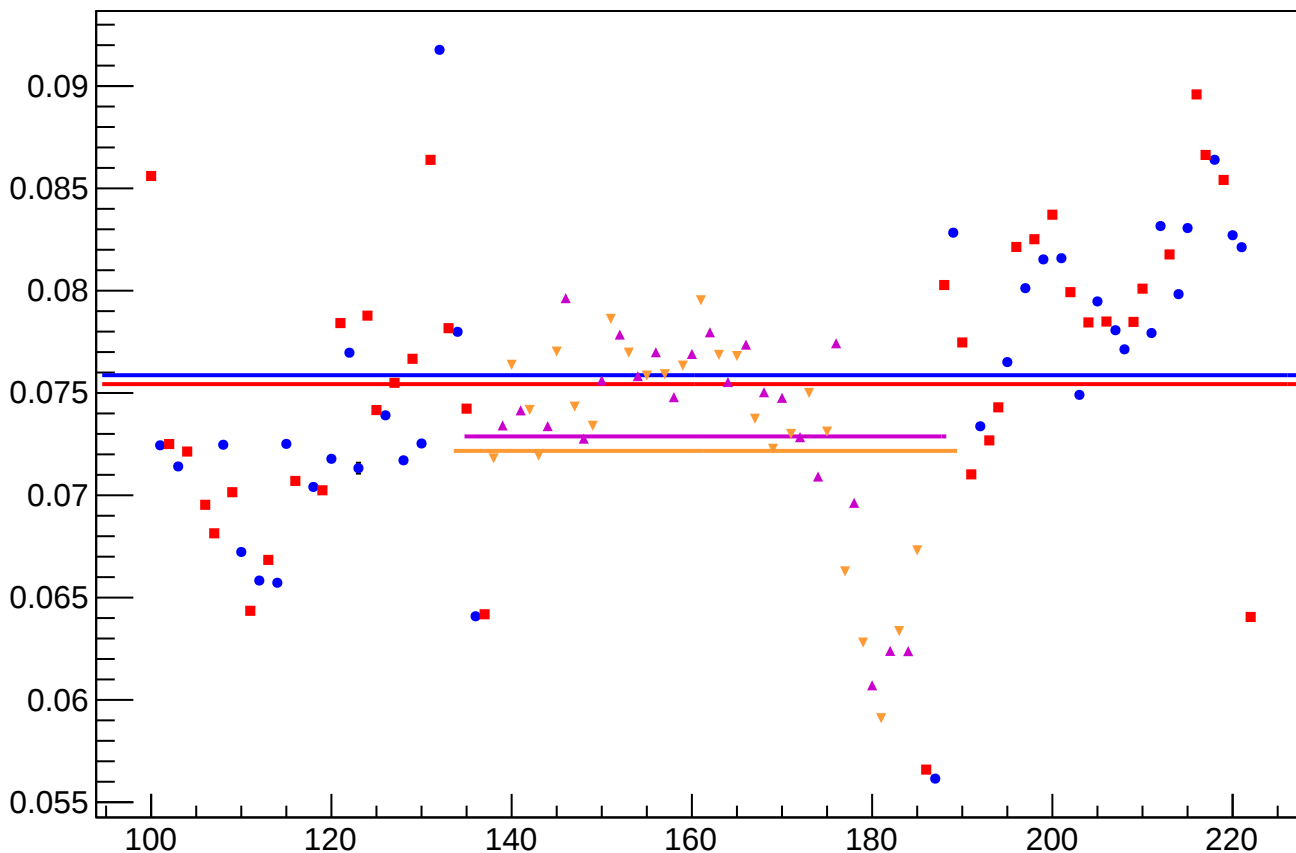
Right: -1.443+/-0.000 χ^2/NDF : 12575031735.0/72

In: -1.226+/-0.000 χ^2/NDF : 12257034171.9/57

Out: -1.401+/-0.000 χ^2/NDF : 12926755282.6/62

All: -1.317+/-0.000 χ^2/NDF : 25287311655.3/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.076 $\pm$ 0.000 χ^2 /NDF: 274476.5/34

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 383538.6/37

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

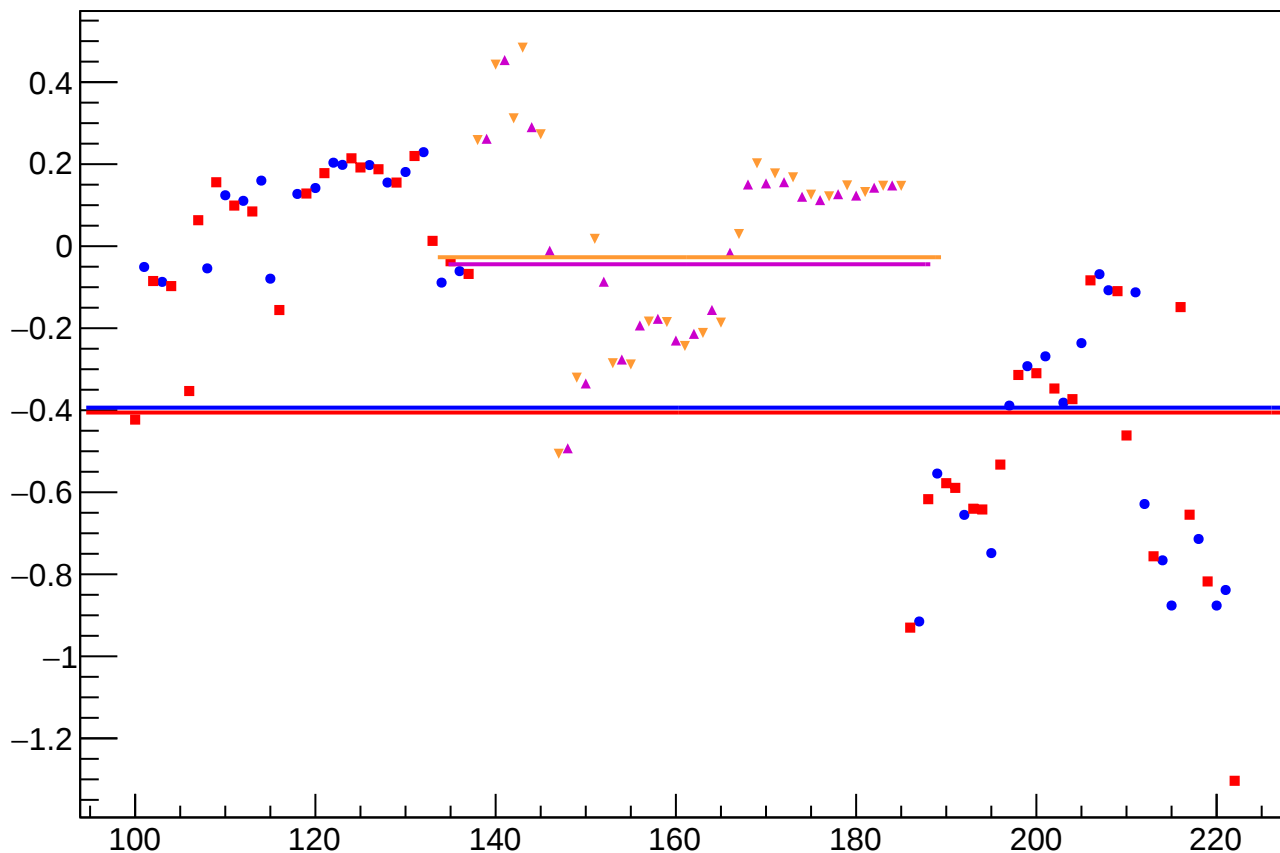
Right: 0.076 $\pm$ 0.000 χ^2 /NDF: 658662.1/72

In: 0.074 $\pm$ 0.000 χ^2 /NDF:487089.2/57

Out: 0.074 $\pm$ 0.000 χ^2 /NDF:642879.0/62

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 1132294.2/120

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.394+/-0.000

χ^2/NDF : 30550466336.0/34

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right Out: -0.406+/-0.000

χ^2/NDF : 30991759368.8/37

Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Right: -0.399+/-0.000

χ^2/NDF : 61562962550.7/72

In: -0.206+/-0.000

χ^2/NDF : 65856564855.0/57

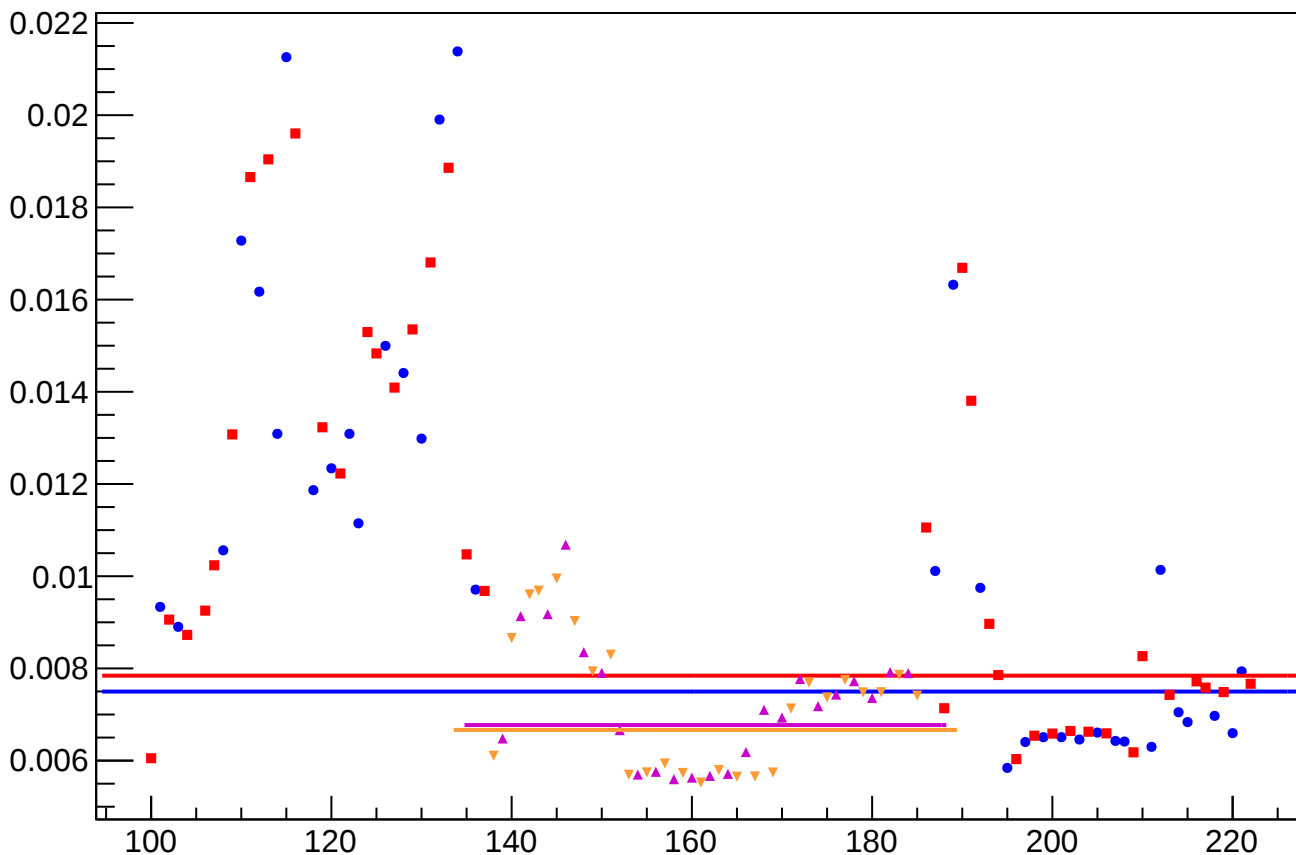
Out: -0.188+/-0.000

χ^2/NDF : 74416010089.8/62

All: -0.197+/-0.000

χ^2/NDF : 140383975774.5

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3006531.7/34

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3087101.5/37

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

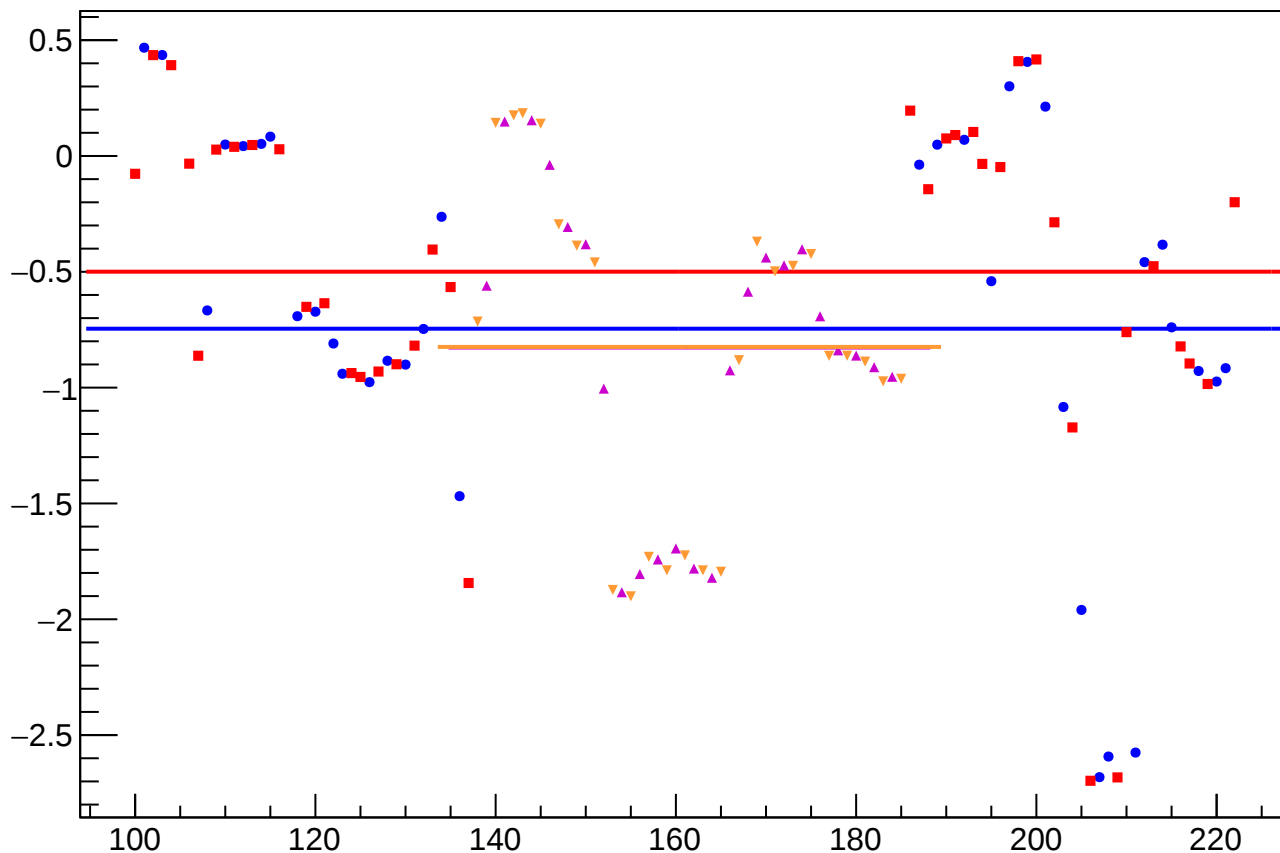
Right: 0.008+/-0.000 χ^2/NDF : 6127992.7/72

In: 0.007+/-0.000 χ^2/NDF :4109711.2/57

Out: 0.007+/-0.000 χ^2/NDF :4675822.2/62

All: 0.007+/-0.000 χ^2/NDF : 8787677.6/120

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.746 ± 0.000 $\chi^2/\text{NDF}: 1775253820.8/34$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.500 ± 0.000 $\chi^2/\text{NDF}: 1523245851.4/37$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

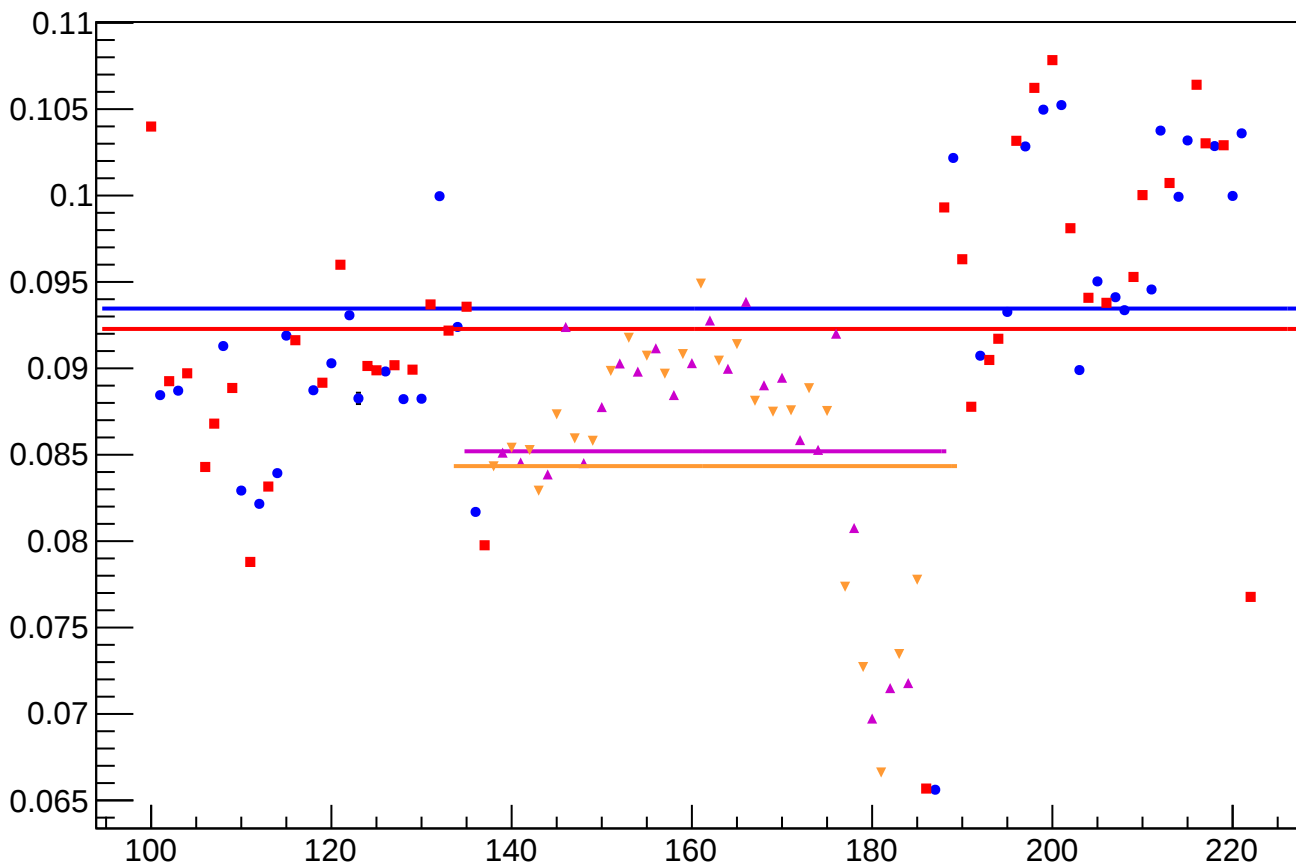
Right: -0.618 ± 0.000 $\chi^2/\text{NDF}: 3367511659.4/72$

In: -0.788 ± 0.000 $\chi^2/\text{NDF}: 2704426010.8/57$

Out: -0.668 ± 0.000 $\chi^2/\text{NDF}: 2756202636.2/62$

All: -0.726 ± 0.000 $\chi^2/\text{NDF}: 5494332046.9/1$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 268422.9/34

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 427342.3/37

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

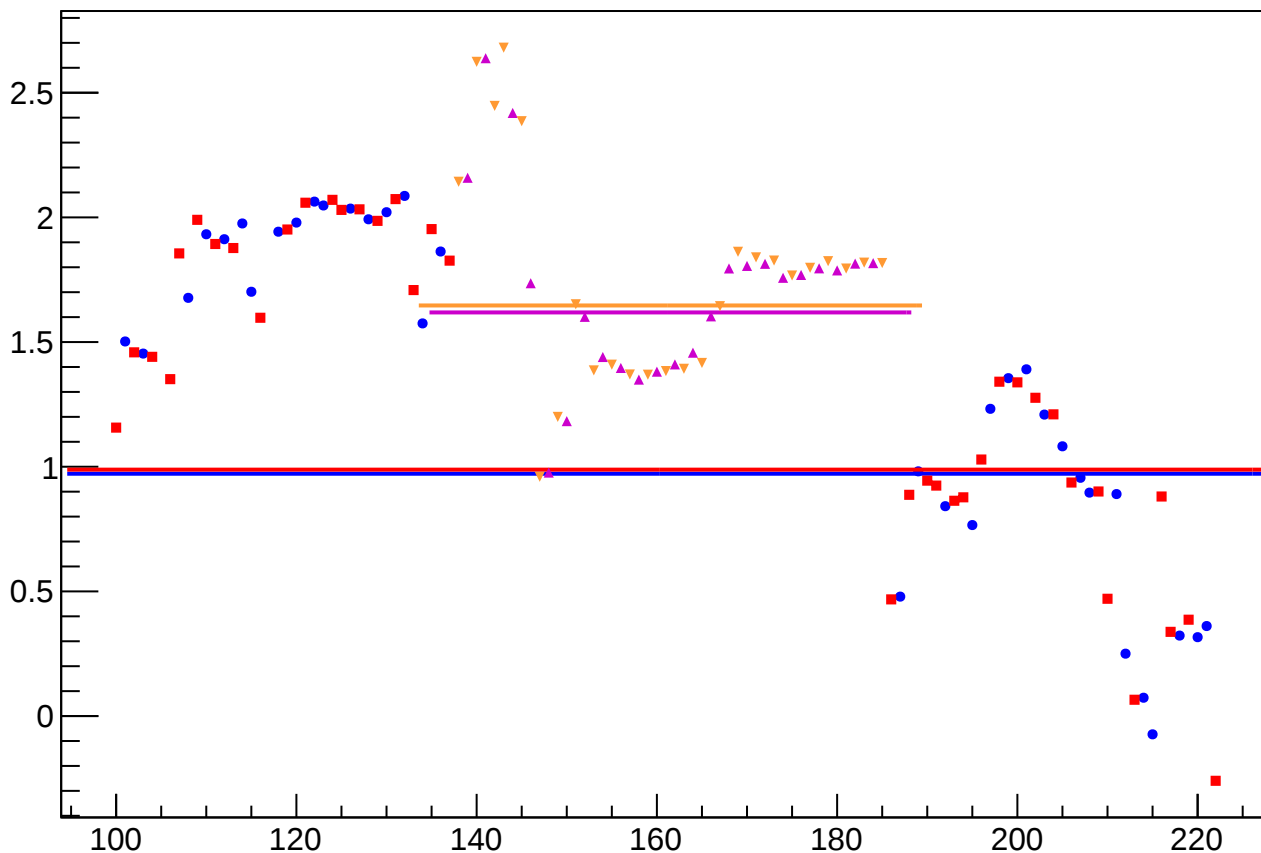
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 698936.1/72

In: 0.089 $\pm$ 0.000 χ^2 /NDF:662132.6/57

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:870216.1/62

All: 0.089 $\pm$ 0.000 χ^2 /NDF: 1537407.9/120

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.972 $\pm$ 0.000

χ^2 /NDF: 45979291873.2/34

Left Out: 1.647 $\pm$ 0.000

χ^2 /NDF: 26535241545.7/24

Right Out: 0.988 $\pm$ 0.000

χ^2 /NDF: 40413990791.7/37

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: 0.980 $\pm$ 0.000

χ^2 /NDF: 86412646507.5/72

In: 1.334 $\pm$ 0.000

χ^2 /NDF: 101920468234.9/57

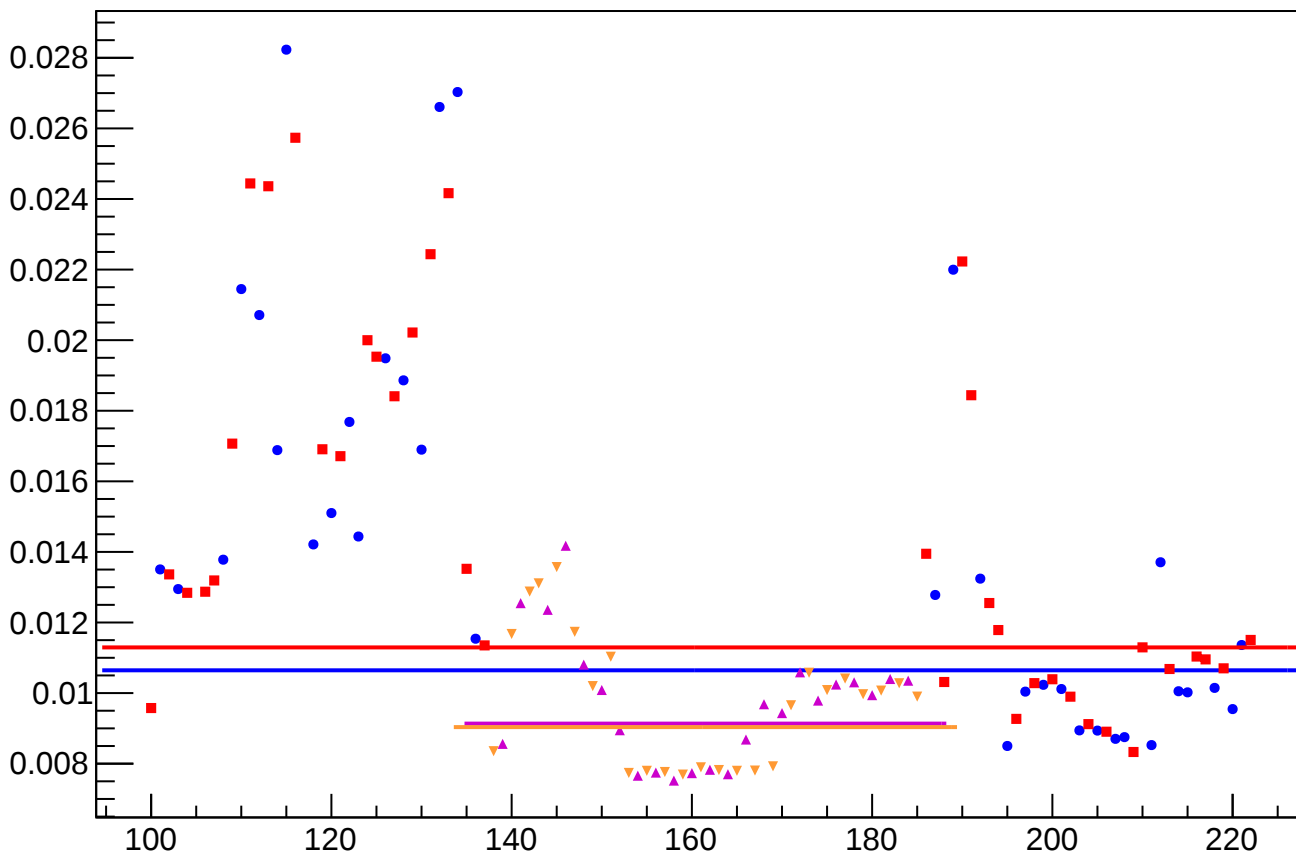
Out: 1.385 $\pm$ 0.000

χ^2 /NDF: 102864713264.6/62

All: 1.359 $\pm$ 0.000

χ^2 /NDF: 205234289508.6

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2455686.2/34

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2537716.5/37

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

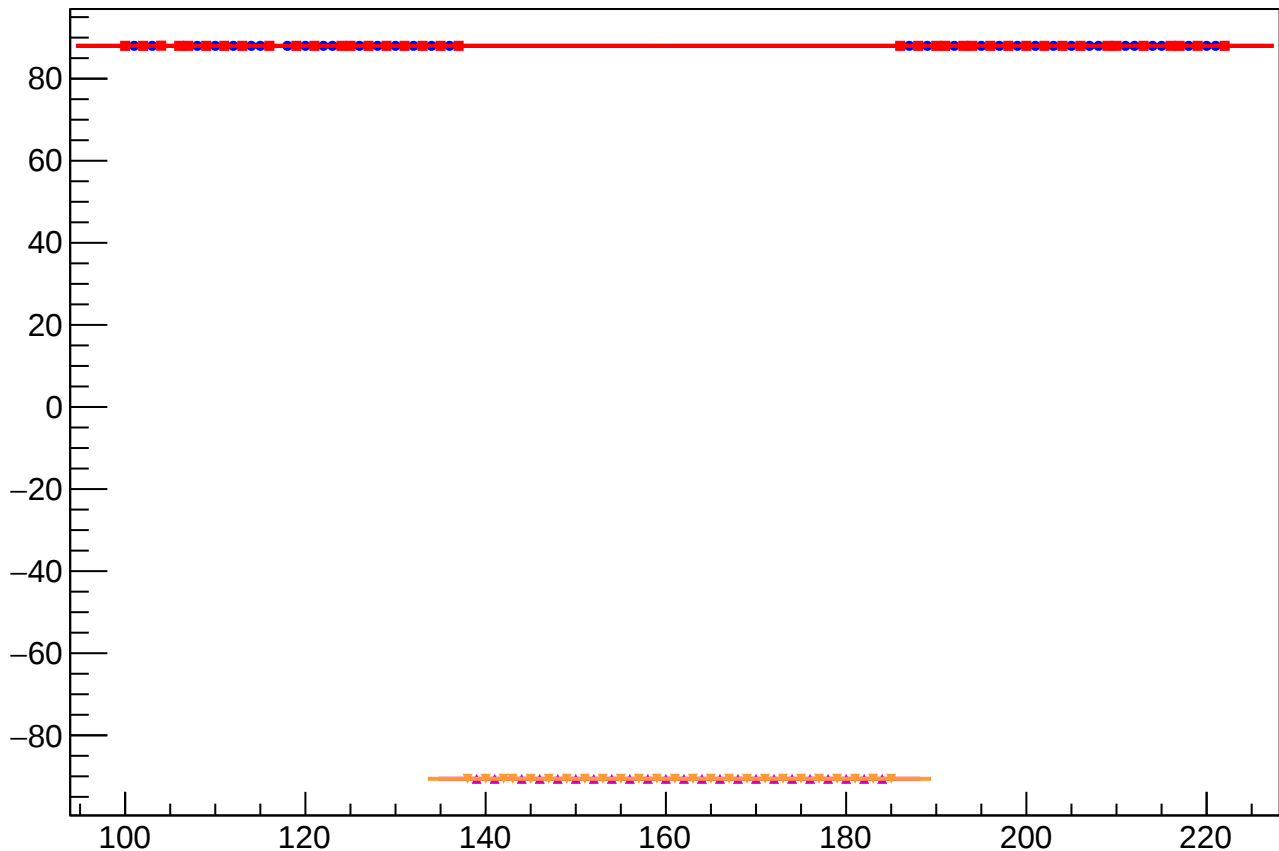
Right: 0.011+/-0.000 χ^2/NDF : 5053997.4/72

In: 0.010+/-0.000 χ^2/NDF :3719162.7/57

Out: 0.010+/-0.000 χ^2/NDF :4425490.6/62

All: 0.010+/-0.000 χ^2/NDF : 8150810.4/120

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3362238.8/34

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81396908759488698484233601024.0/37

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

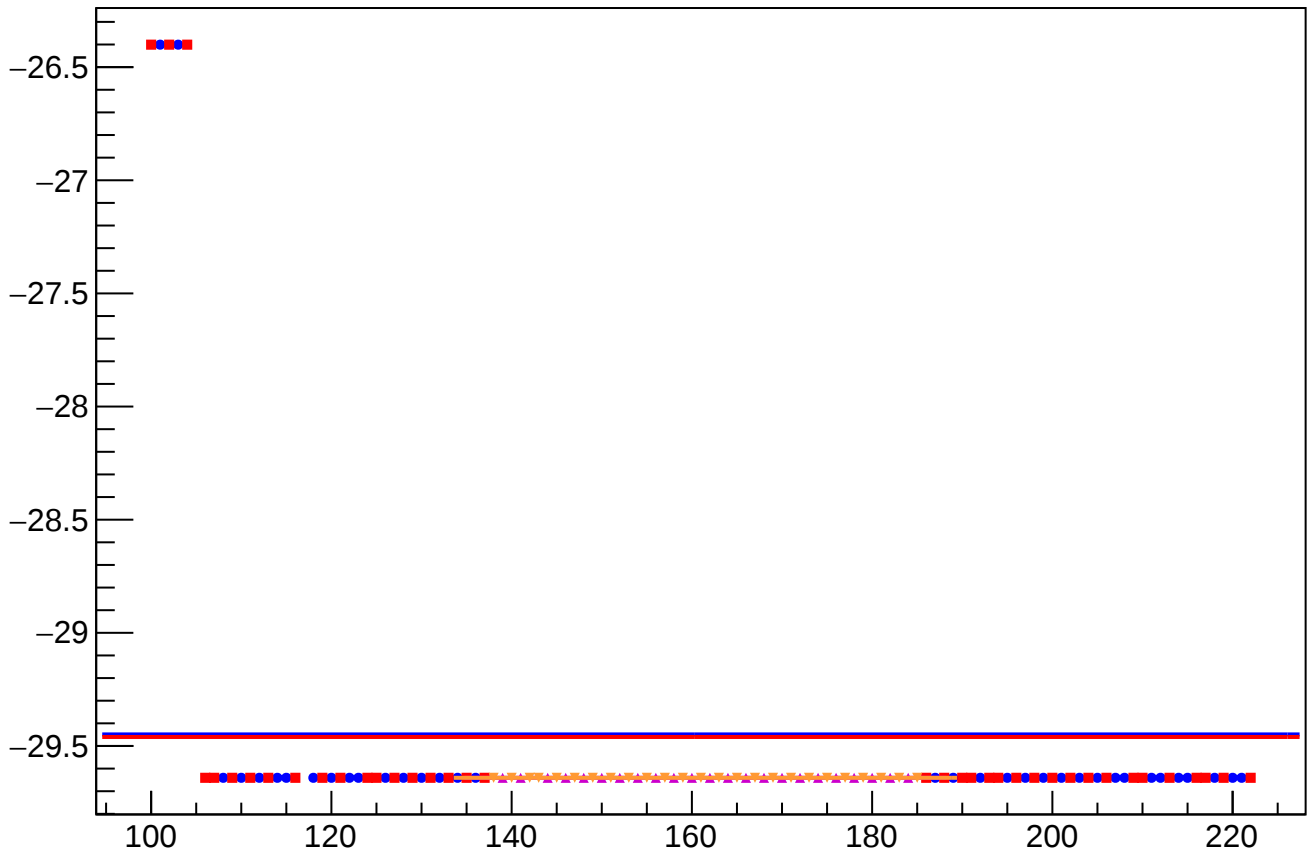
Right: 88.001+/-0.000 χ^2/NDF : 8239607747330037

In: 3.366+/-0.000 χ^2/NDF : 301408284704590848

Out: 2.687+/-0.000 χ^2/NDF : 317392621832230840

All: 3.018+/-0.000 χ^2/NDF : 61880986441220

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.449+/-0.000

χ^2/NDF : 1165412596188556195174564619091968.0/34

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.460+/-0.000

χ^2/NDF : 1149908011137763439097707719819264.0/37

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

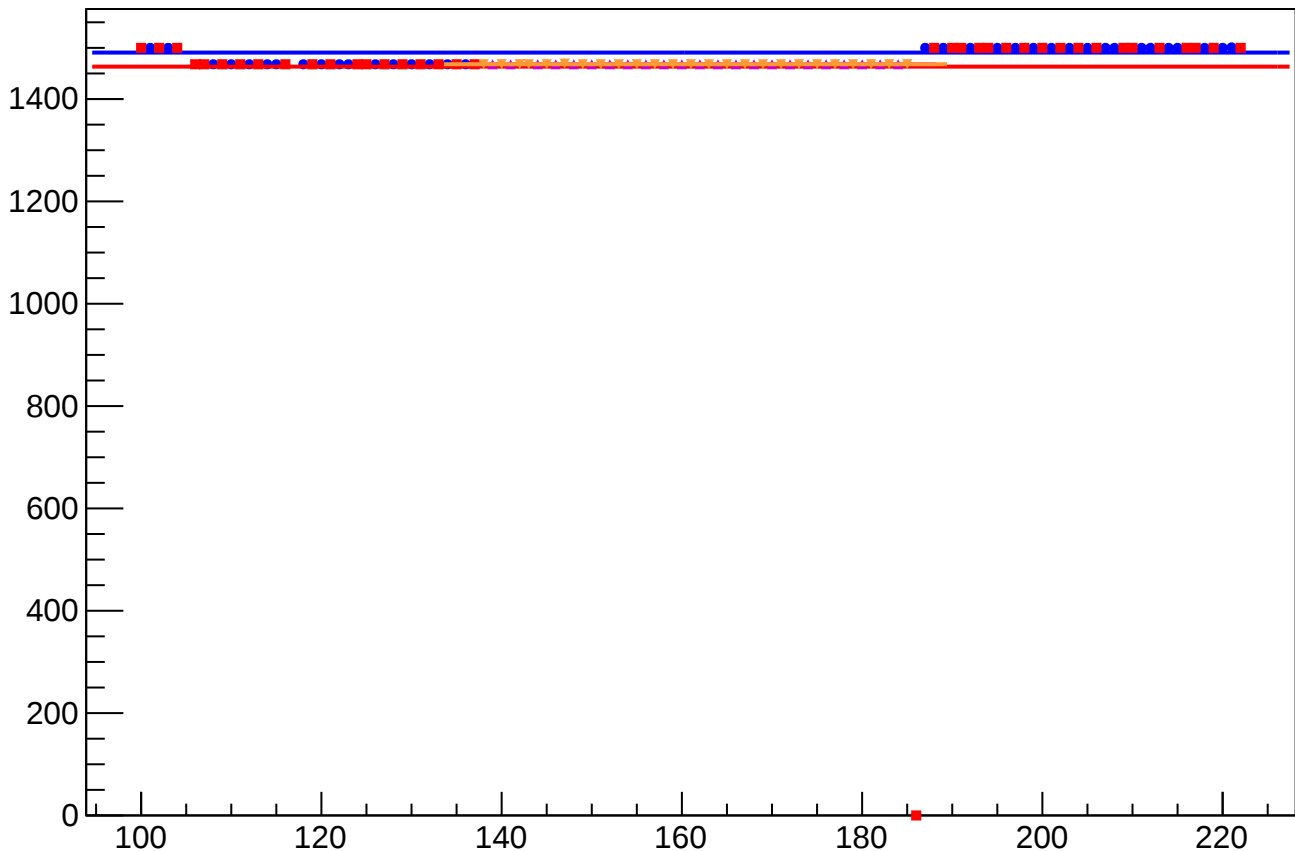
Right: -29.455+/-0.000 χ^2/NDF : 231545076556288.0/34

In: -29.540+/-0.000 χ^2/NDF : 12001498917150229.0/34

Out: -29.546+/-0.000 χ^2/NDF : 1182301413039089.0/37

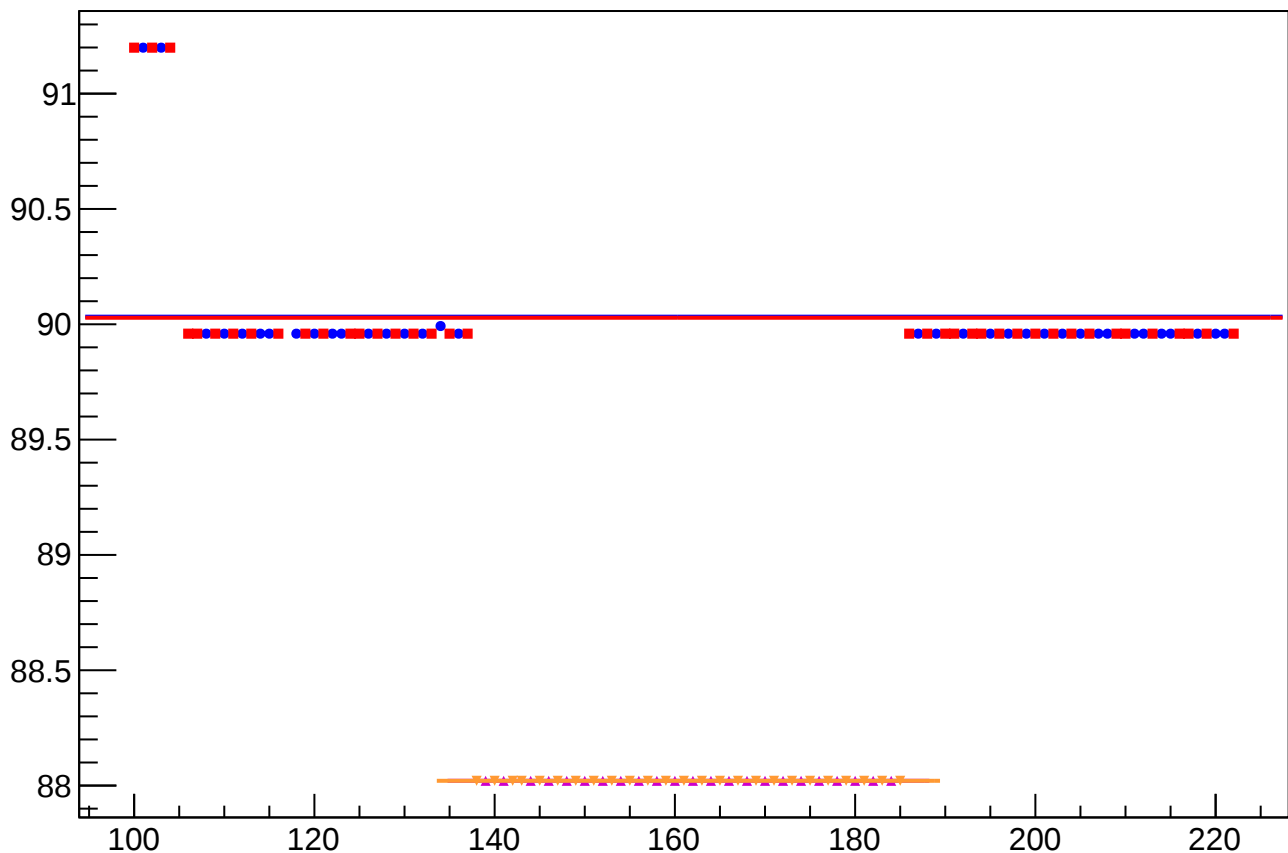
All: -29.543+/-0.000 χ^2/NDF : 238253680761.0/71

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1490.819+/-0.000	χ^2/NDF : 419472815494910489933634633356804096.0/34	Left: 1468.022+/-0.000	χ^2/NDF : 13080781775346
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1476.785+/-0.000	χ^2/NDF : 84508595945543
Right Out: 1463.351+/-0.000	χ^2/NDF : 83320487027350566444503350174602493952.0/37	In: 1480.003+/-0.000	χ^2/NDF : 911768465808553
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1465.595+/-0.000	χ^2/NDF : 833425634782560
	All: 1472.615+/-0.000	χ^2/NDF : 84657721083	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.033+/-0.000

χ^2/NDF : 170620657251119393276142303576064.0/34

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.031+/-0.000 χ^2/NDF : 3390717498613187

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

In: 89.079+/-0.000 χ^2/NDF : 399699279133195570

Right Out: 90.028+/-0.000

χ^2/NDF : 168428836869946818032128856424448.0/37

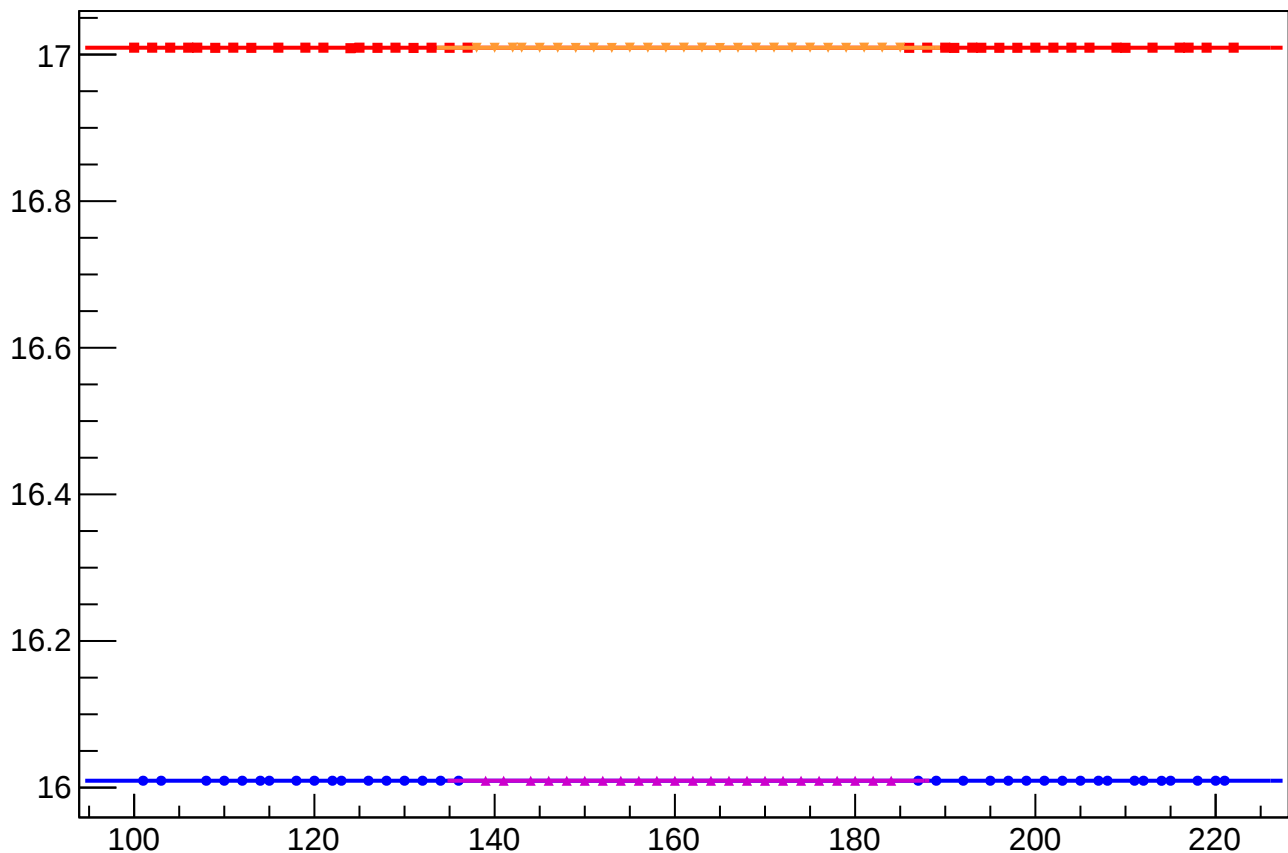
Out: 89.069+/-0.000 χ^2/NDF : 41789816592488287

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

All: 89.074+/-0.000 χ^2/NDF : 8176172562903

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000

χ^2 /NDF: 852254699607548831465472.0/34

Left: 16.524 $\pm$ 0.000

χ^2 /NDF: 85855870772921272

Right: 16.516 $\pm$ 0.000

χ^2 /NDF: 9942045508494307

Left Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 26194929080144976634970112.0/24

In: 16.009 $\pm$ 0.000

χ^2 /NDF: 992525663341483015

Right Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 21944168321804436208877568.0/37

Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 50261980104328972

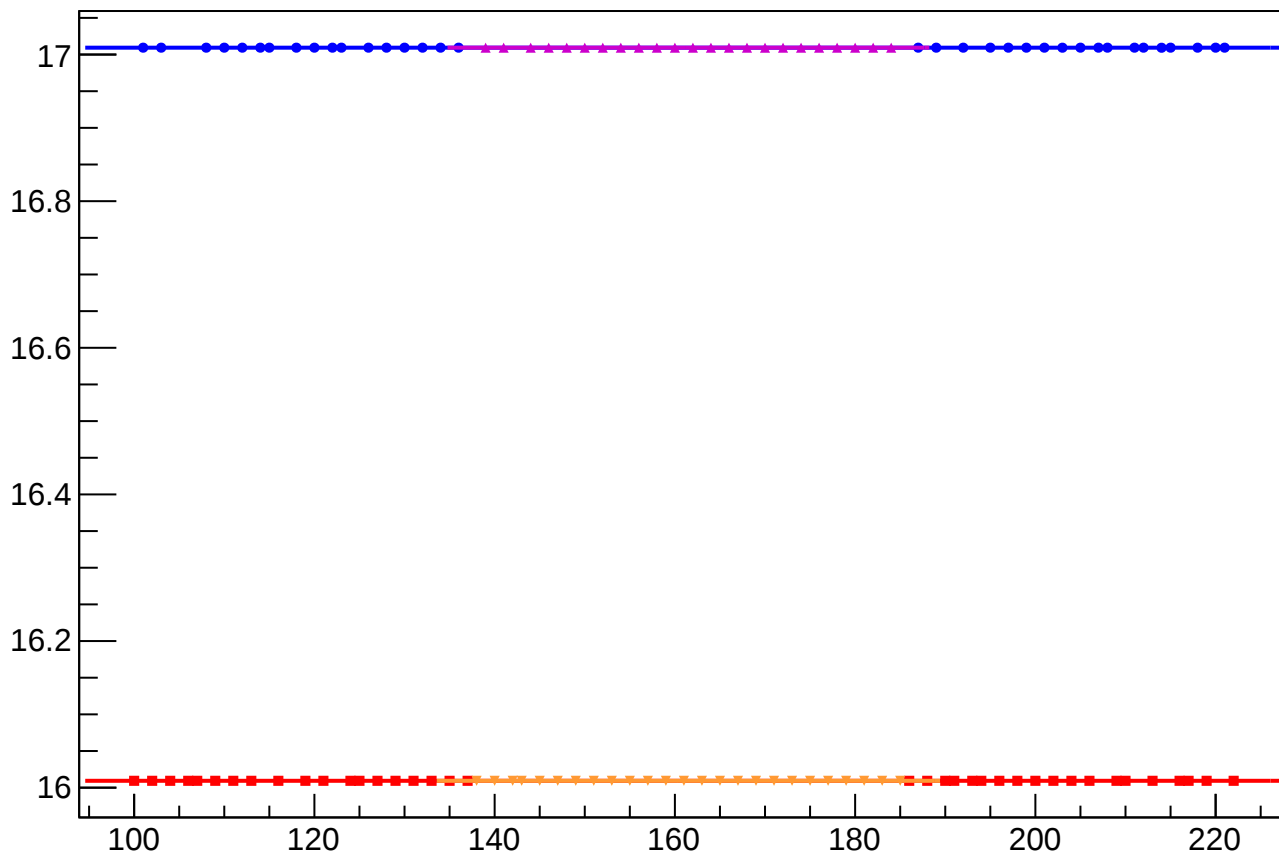
Left In: 16.009 $\pm$ 0.000

χ^2 /NDF: 127920993667935400624128.0/22

All: 16.520 $\pm$ 0.000

χ^2 /NDF: 1852881988269

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 852254699741075472384000.0/34

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974450

Right: 16.495+/-0.000

χ^2/NDF : 1008684148357552

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

In: 17.009+/-0.000

χ^2/NDF : 980531037861653761

Right Out: 16.009+/-0.000

χ^2/NDF : 322284.4/37

Out: 16.009+/-0.000

χ^2/NDF : 574770.4/62

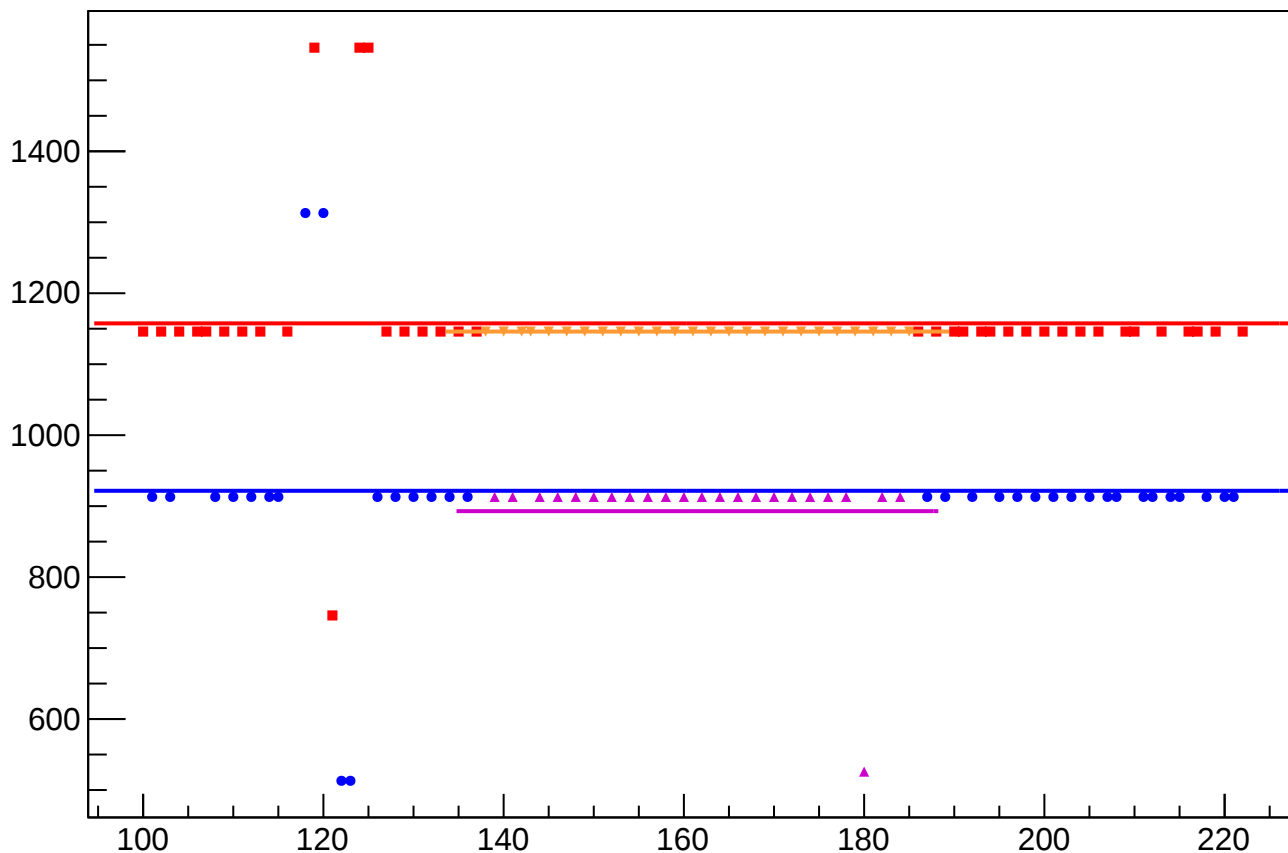
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.493+/-0.000

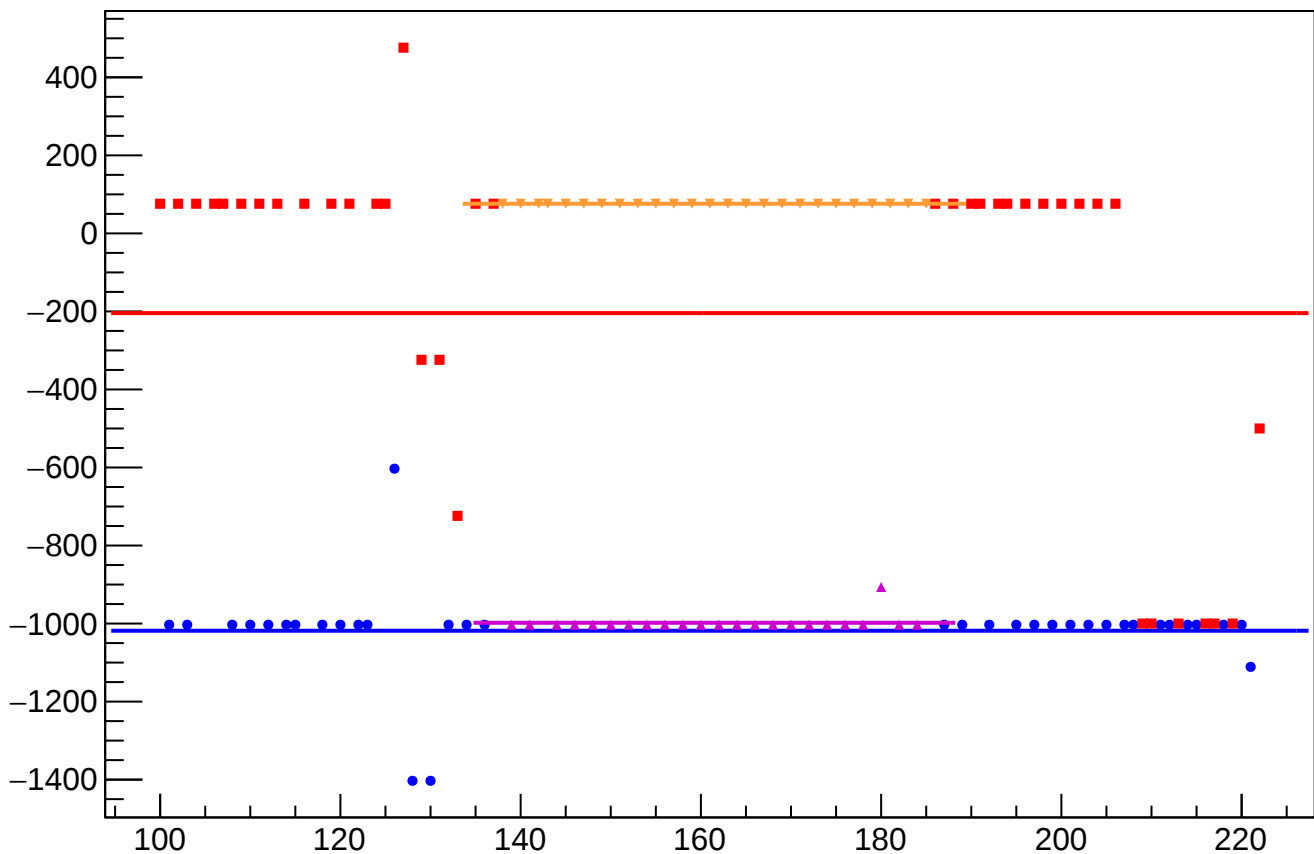
χ^2/NDF : 1915544943560

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



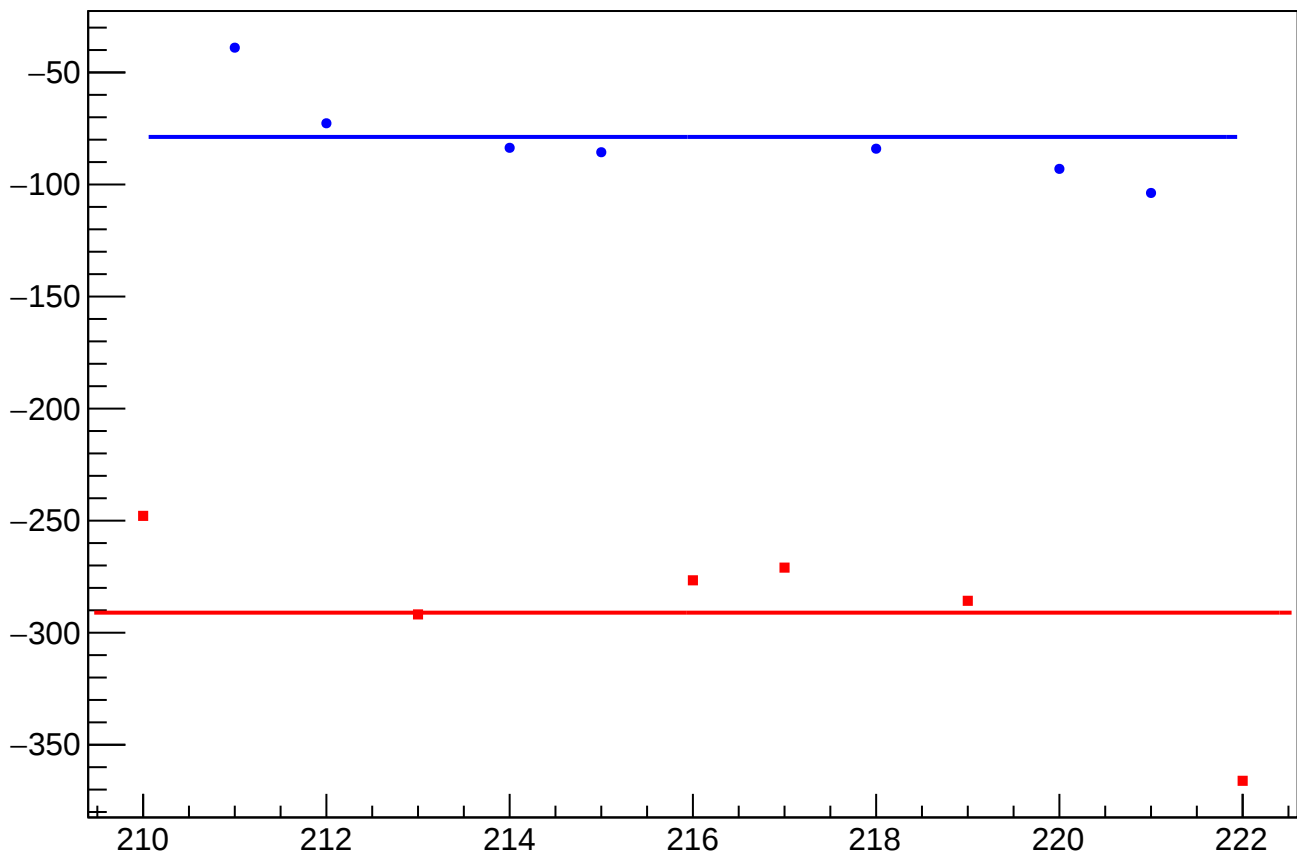
Left: 1023.207 +/- 0.000 χ^2 /NDF: 724152114185977
 Right: 1042.151 +/- 0.000 χ^2 /NDF: 99635647575156
 In: 908.034 +/- 0.000 χ^2 /NDF: 35123536009115707
 Out: 1152.028 +/- 0.000 χ^2 /NDF: 219362599405300
 All: 1033.137 +/- 0.000 χ^2 /NDF: 17274703936

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



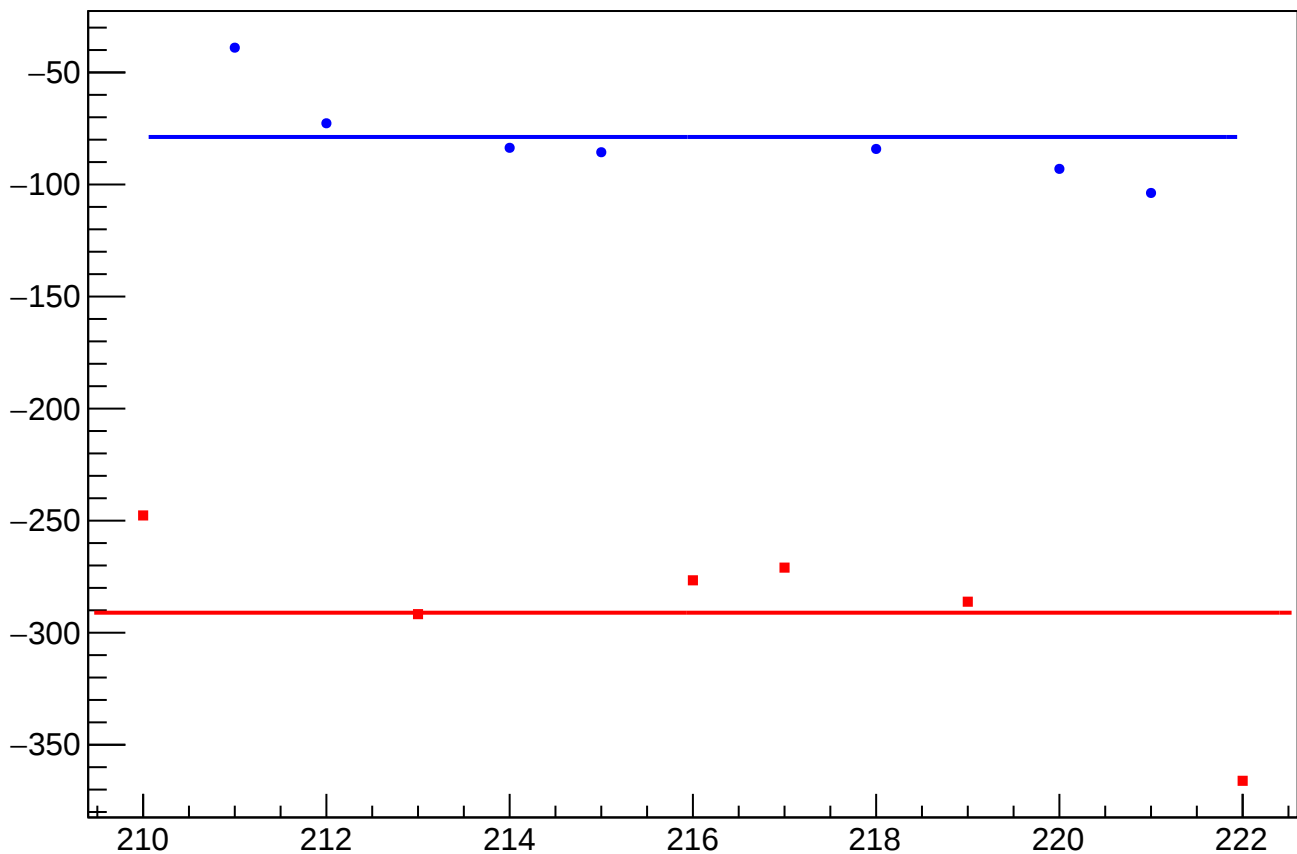
Left: -445.169+/-0.000 χ^2/NDF : 106713327806479
 Right In: -1018.411+/-0.000 χ^2/NDF : 23238655210808372605604904936386068480.0/34
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -204.334+/-0.000 χ^2/NDF : 435831954345065911861442724540608151552.0/37
 In: -1008.729+/-0.000 χ^2/NDF : 244589961096805
 Out: -70.418+/-0.000 χ^2/NDF : 5140336137157622
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -527.630+/-0.000 χ^2/NDF : 22493723253

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Right In: -78.772+/-0.000 χ^2/NDF : 175802545093190723517071813395873792.0/6
 Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: -179.962+/-0.000 χ^2/NDF : 11662807205554
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -78.772+/-0.000 χ^2/NDF : 17580254509319072
 Right Out: -291.051+/-0.000 χ^2/NDF : 639407032046929648473043444793606144.0/5
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -179.962+/-0.000 χ^2/NDF : 11662807205

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: -78.790 $\pm$ 0.000 χ^2 /NDF: 175899821083136344171628975429255168.0/6
 Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0
 Right Out: -291.070 $\pm$ 0.000 χ^2 /NDF: 640261501371086537686874016962314240.0/5
 Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0
 All: -179.981 $\pm$ 0.000 χ^2 /NDF: 11663932795806