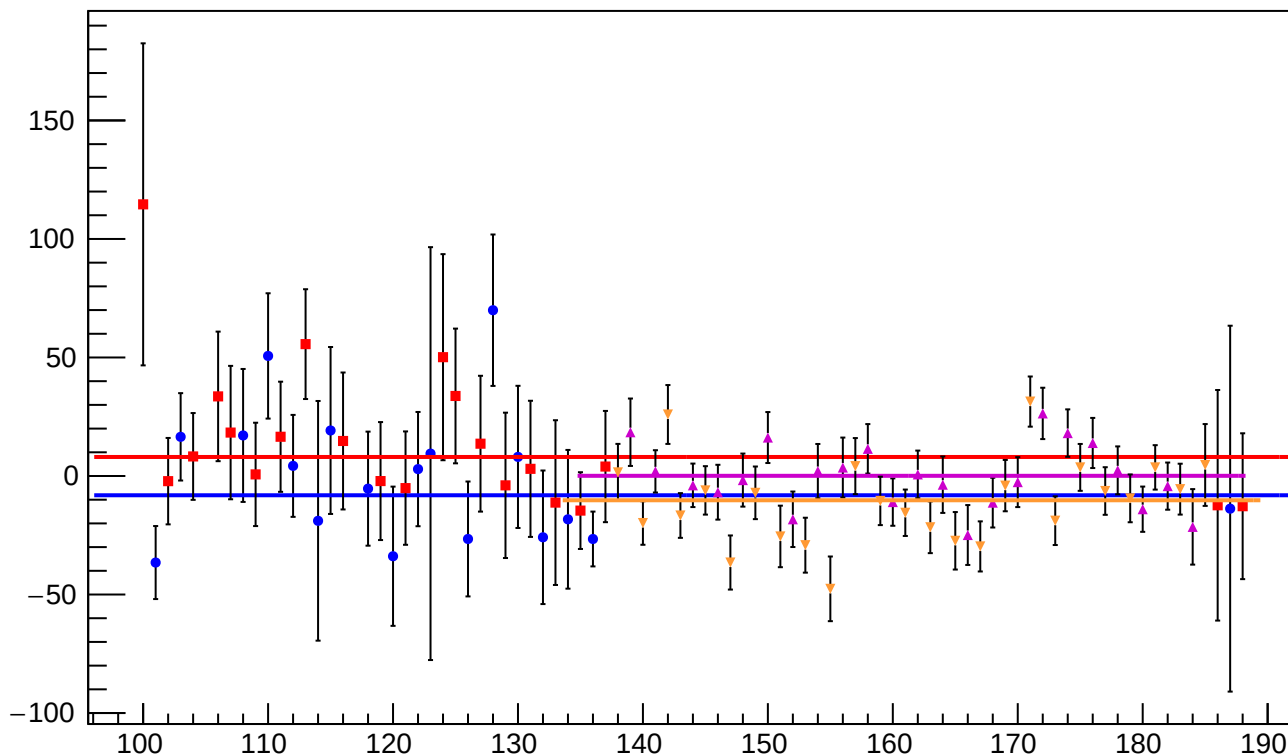


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.127 $\pm$ 5.605

χ^2/NDF : 22.9/17

Left Out: -10.238 $\pm$ 2.170

χ^2/NDF : 58.1/24

Right Out: 8.026 $\pm$ 5.556

χ^2/NDF : 13.7/20

Left In: 0.080 $\pm$ 2.251

χ^2/NDF : 29.9/22

Left: -5.266 $\pm$ 1.562

χ^2/NDF : 98.9/47

Right: 0.020 $\pm$ 3.946

χ^2/NDF : 40.7/38

In: -1.059 $\pm$ 2.088

χ^2/NDF : 54.6/40

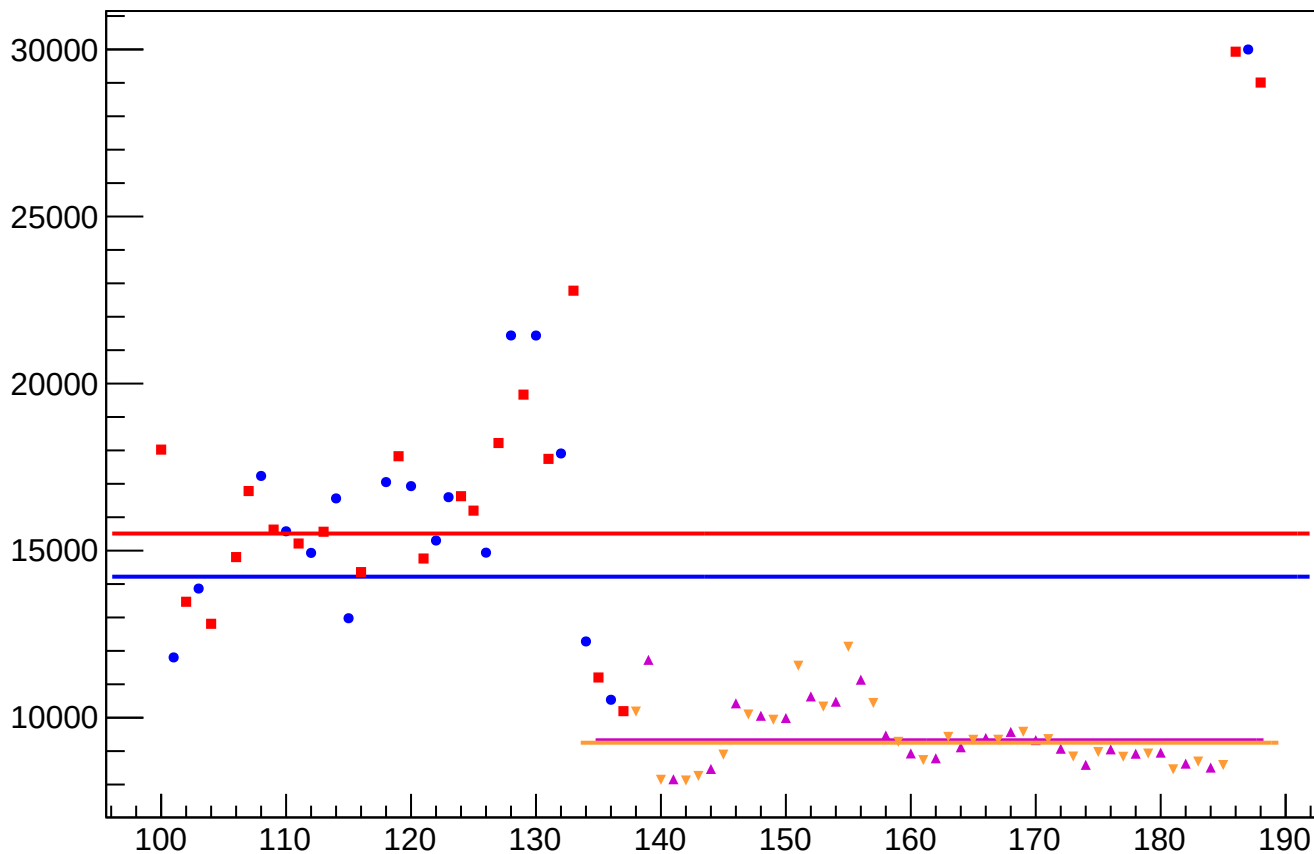
Out: -7.820 $\pm$ 2.021

χ^2/NDF : 81.2/45

All: -4.550 $\pm$ 1.453

χ^2/NDF : 141.2/86

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14220.685 $\pm$ 3.963 χ^2 /NDF: 687071.8/17

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

Right Out: 15511.868 $\pm$ 3.929 χ^2 /NDF: 1061481.6/20

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

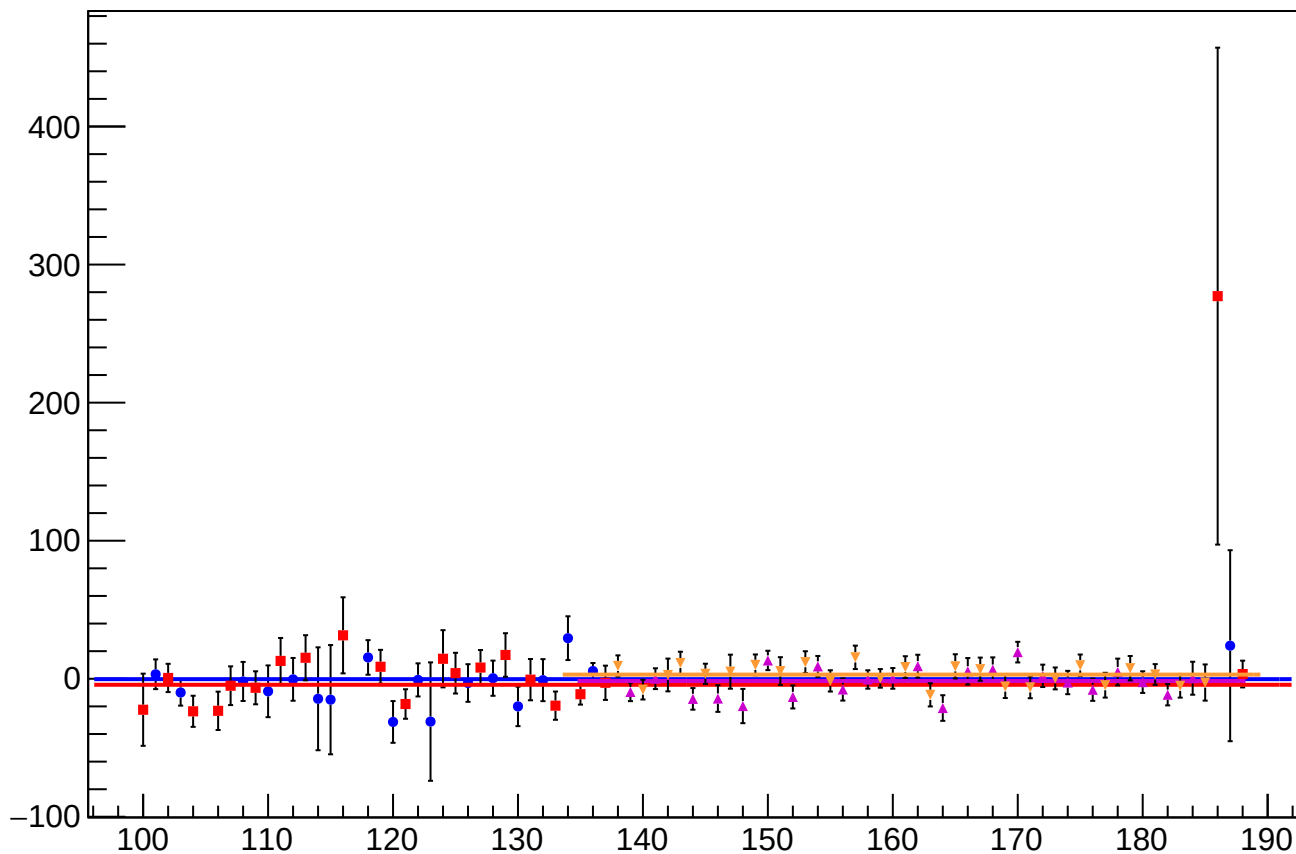
Right: 14871.913 $\pm$ 2.790 χ^2 /NDF: 1802090.5/38

In: 10003.904 $\pm$ 1.477 χ^2 /NDF:2277463.0/40

Out: 10080.532 $\pm$ 1.429 χ^2 /NDF:3596744.2/45

All: 10043.466 $\pm$ 1.027 χ^2 /NDF: 5875597.3/86

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.267 ± 3.074 χ^2/NDF : 14.6/17

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

Right Out: -4.334 ± 2.815 χ^2/NDF : 22.7/20

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

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

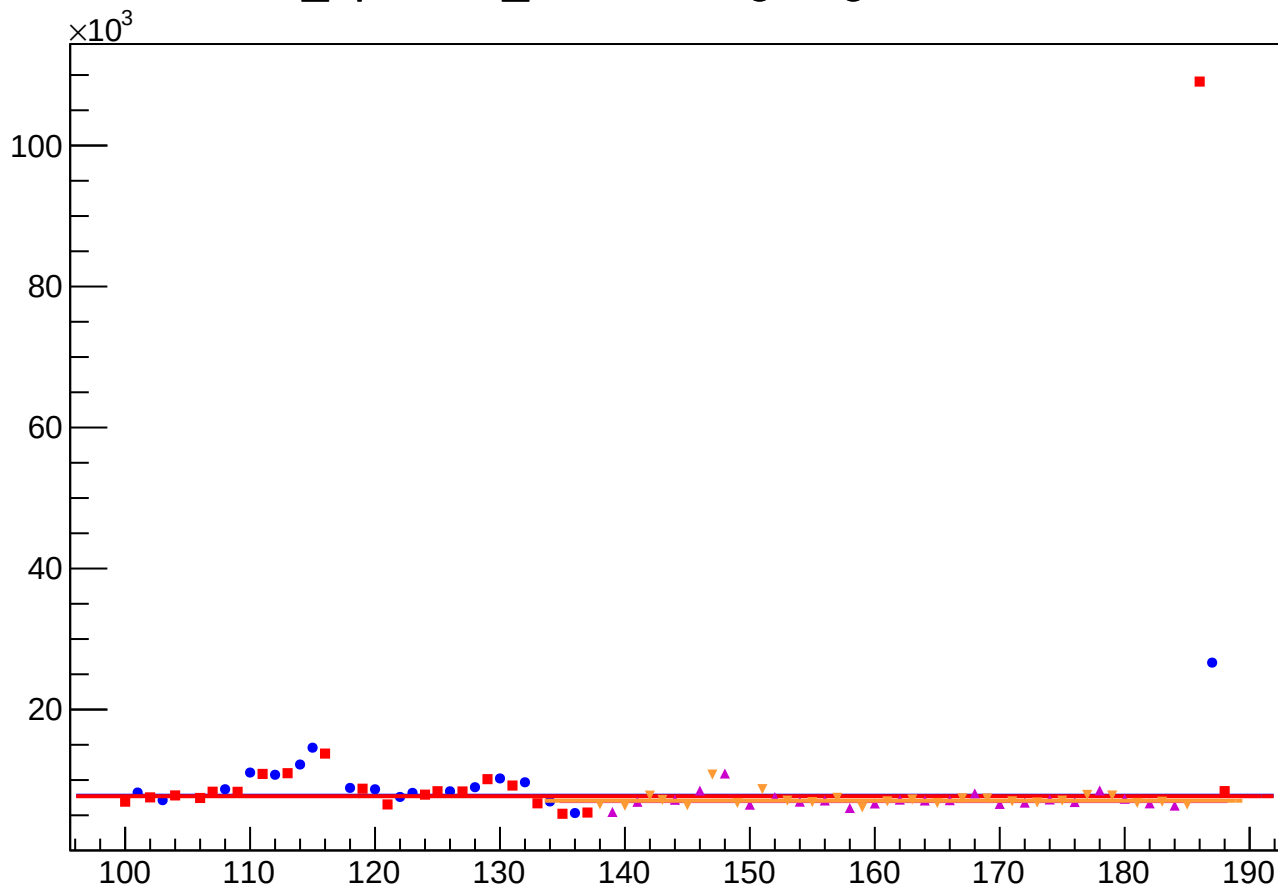
Right: -2.479 ± 2.076 χ^2/NDF : 38.2/38

In: -1.278 ± 1.489 χ^2/NDF : 50.2/40

Out: 1.126 ± 1.430 χ^2/NDF : 46.4/45

All: -0.027 ± 1.032 χ^2/NDF : 97.9/86

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7776.297 $\pm$ 2.173 χ^2 /NDF: 890288.6/17

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

Right Out: 7705.363 $\pm$ 1.990 χ^2 /NDF: 1331050.3/20

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

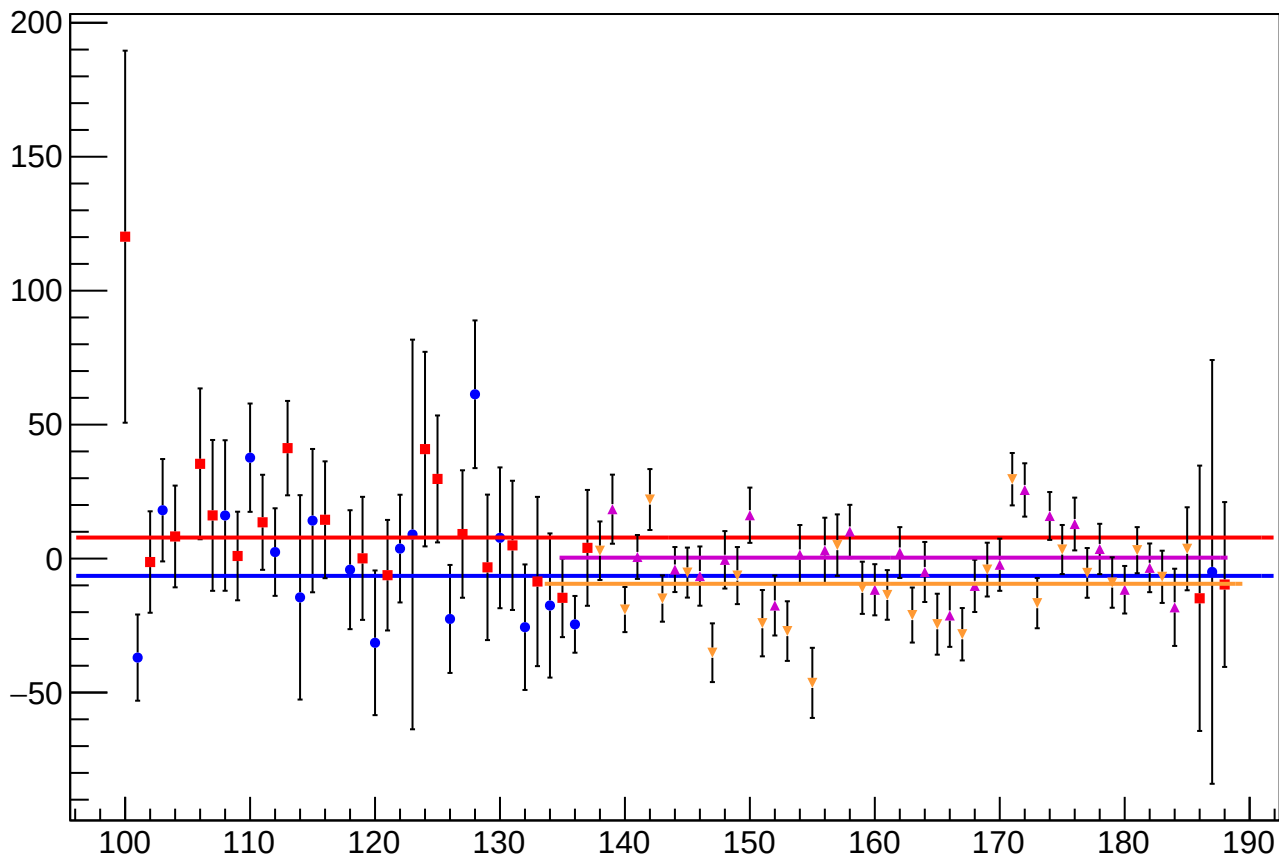
Right: 7737.715 $\pm$ 1.468 χ^2 /NDF: 2221918.2/38

In: 7193.409 $\pm$ 1.053 χ^2 /NDF: 1509589.3/40

Out: 7229.939 $\pm$ 1.011 χ^2 /NDF: 1794788.4/45

All: 7212.414 $\pm$ 0.729 χ^2 /NDF: 3305003.7/86

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.457 ± 5.018 χ^2/NDF : 23.5/17

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

Right Out: 7.851 ± 4.919 χ^2/NDF : 13.5/20

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

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

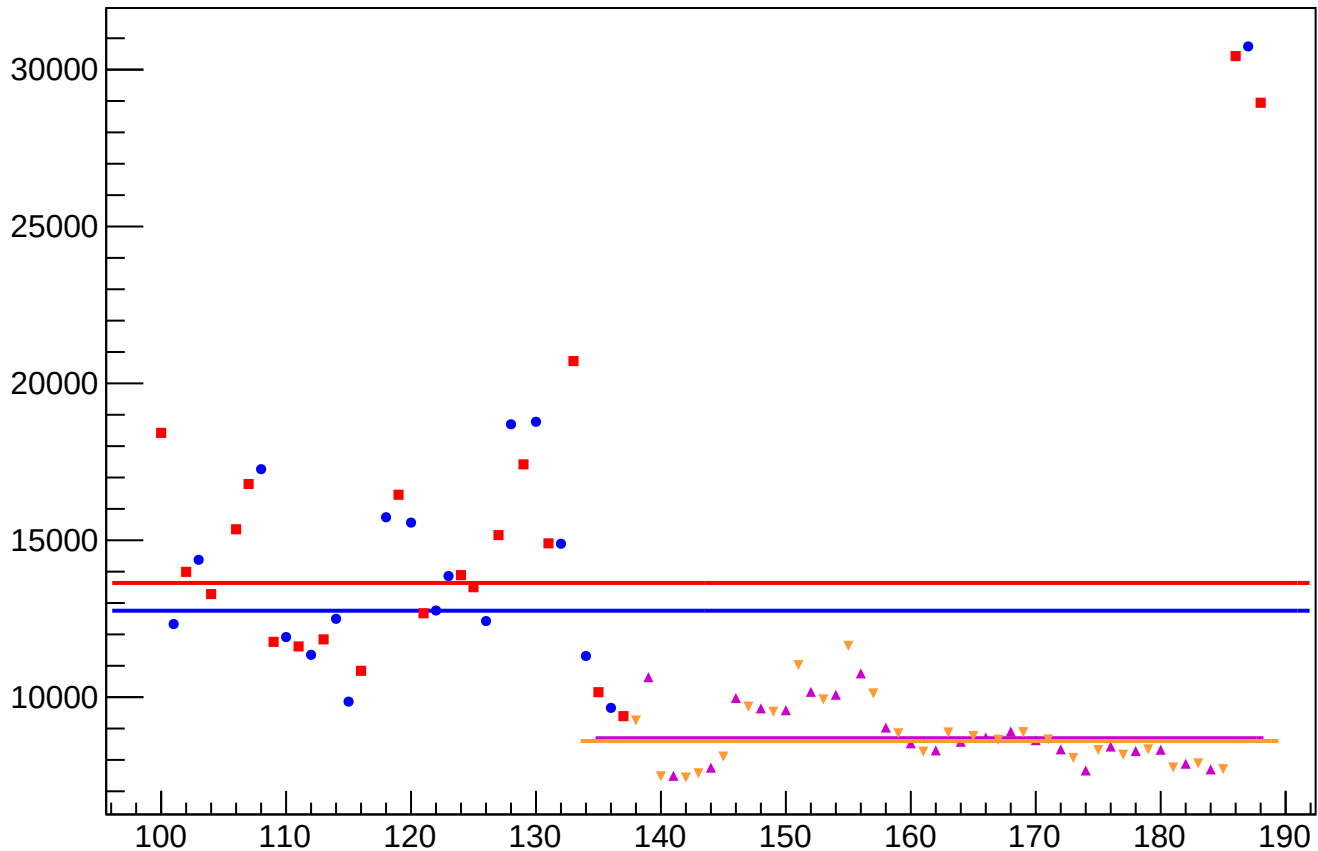
Right: 0.840 ± 3.513 χ^2/NDF : 41.1/38

In: -0.670 ± 1.938 χ^2/NDF : 55.0/40

Out: -6.918 ± 1.869 χ^2/NDF : 82.8/45

All: -3.906 ± 1.345 χ^2/NDF : 143.1/86

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12754.564 $\pm$ 3.549 χ^2 /NDF: 662469.7/17

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

Right Out: 13640.006 $\pm$ 3.478 χ^2 /NDF: 1250571.6/20

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

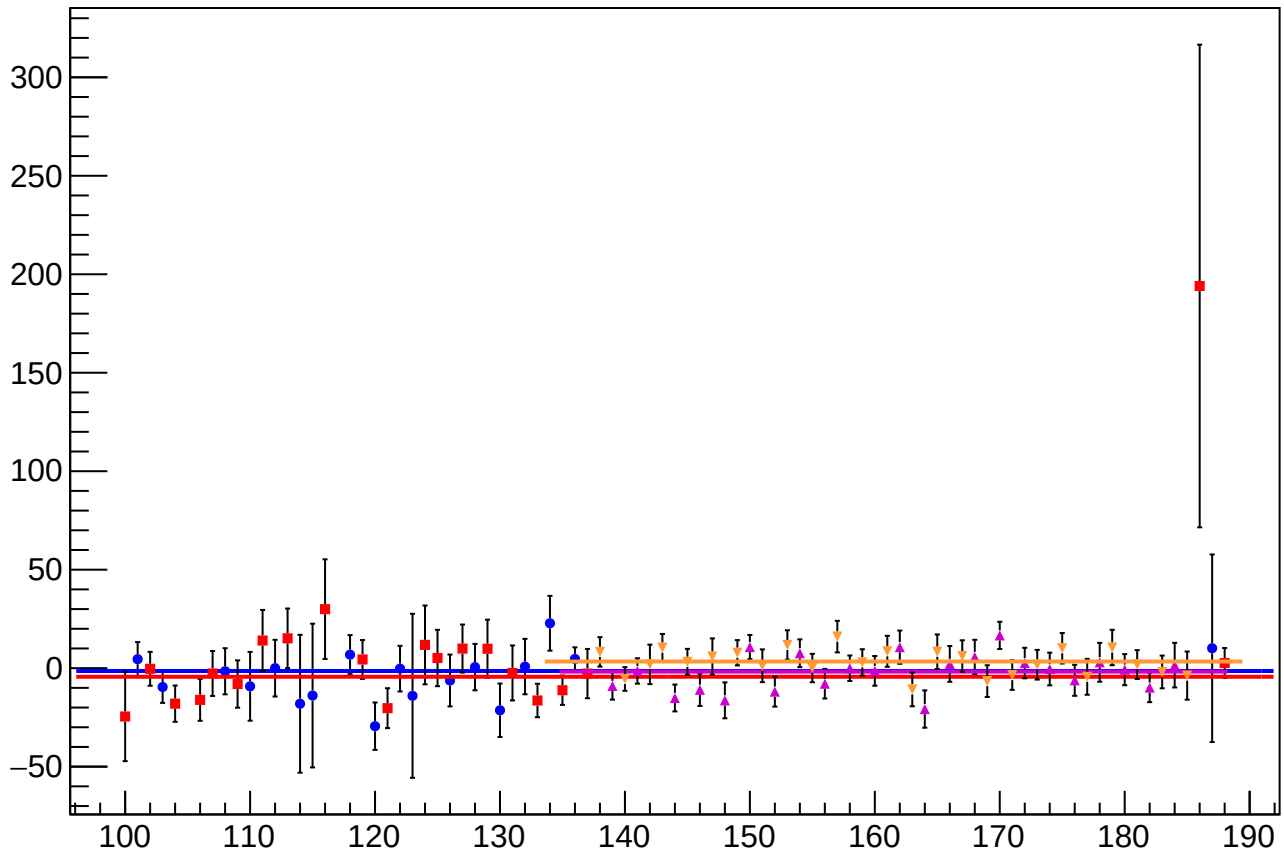
Right: 13206.121 $\pm$ 2.484 χ^2 /NDF: 1944793.7/38

In: 9296.952 $\pm$ 1.370 χ^2 /NDF:2143468.4/40

Out: 9329.739 $\pm$ 1.322 χ^2 /NDF:3484045.1/45

All: 9313.933 $\pm$ 0.951 χ^2 /NDF: 5627810.1/86

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.437 ± 2.790 χ^2/NDF : 14.8/17

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

Right Out: -4.367 ± 2.497 χ^2/NDF : 22.5/20

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

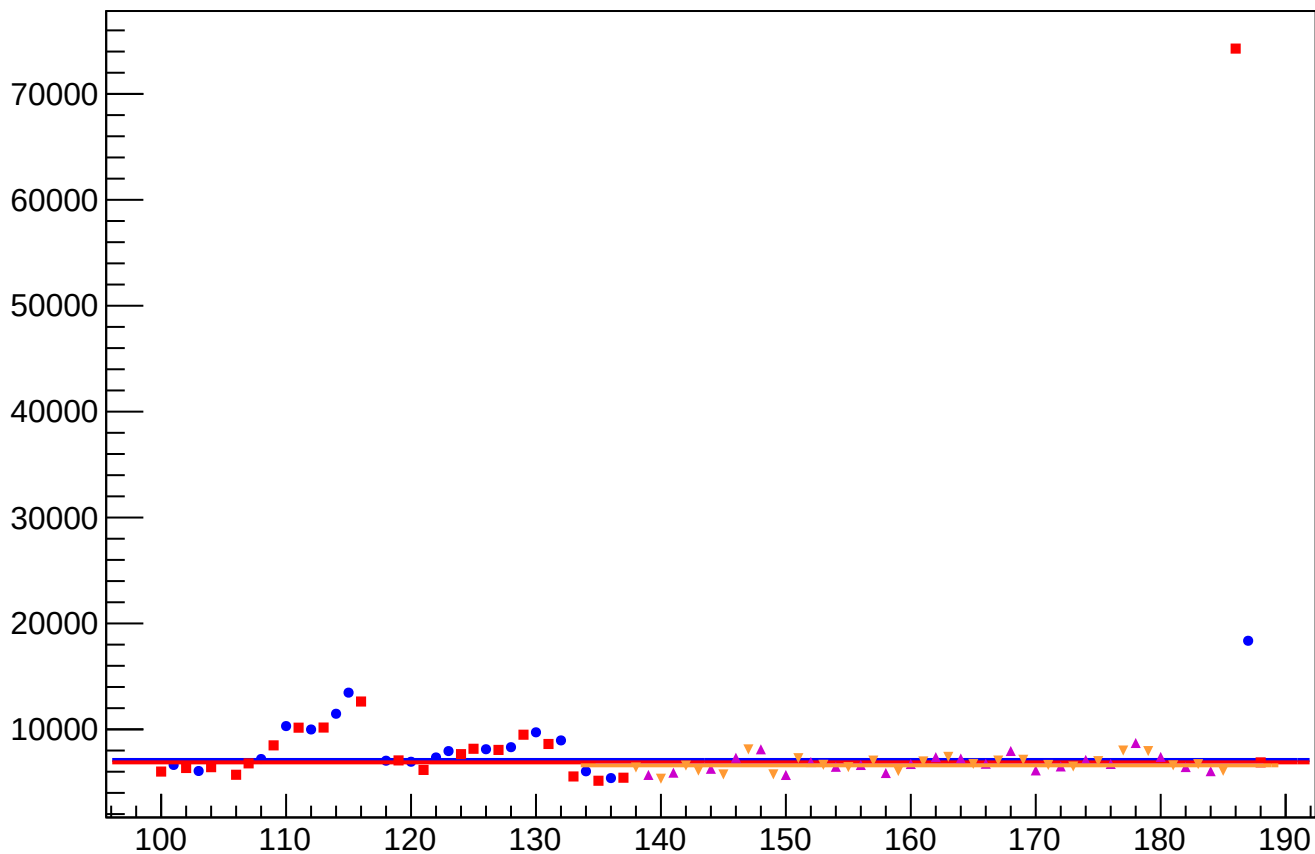
Right: -3.064 ± 1.861 χ^2/NDF : 37.9/38

In: -1.677 ± 1.393 χ^2/NDF : 48.3/40

Out: 1.217 ± 1.318 χ^2/NDF : 46.6/45

All: -0.150 ± 0.957 χ^2/NDF : 97.2/86

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7109.003+/-1.973 χ^2/NDF : 713002.0/17

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

Right Out: 6882.824+/-1.766 χ^2/NDF : 1294031.8/20

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

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

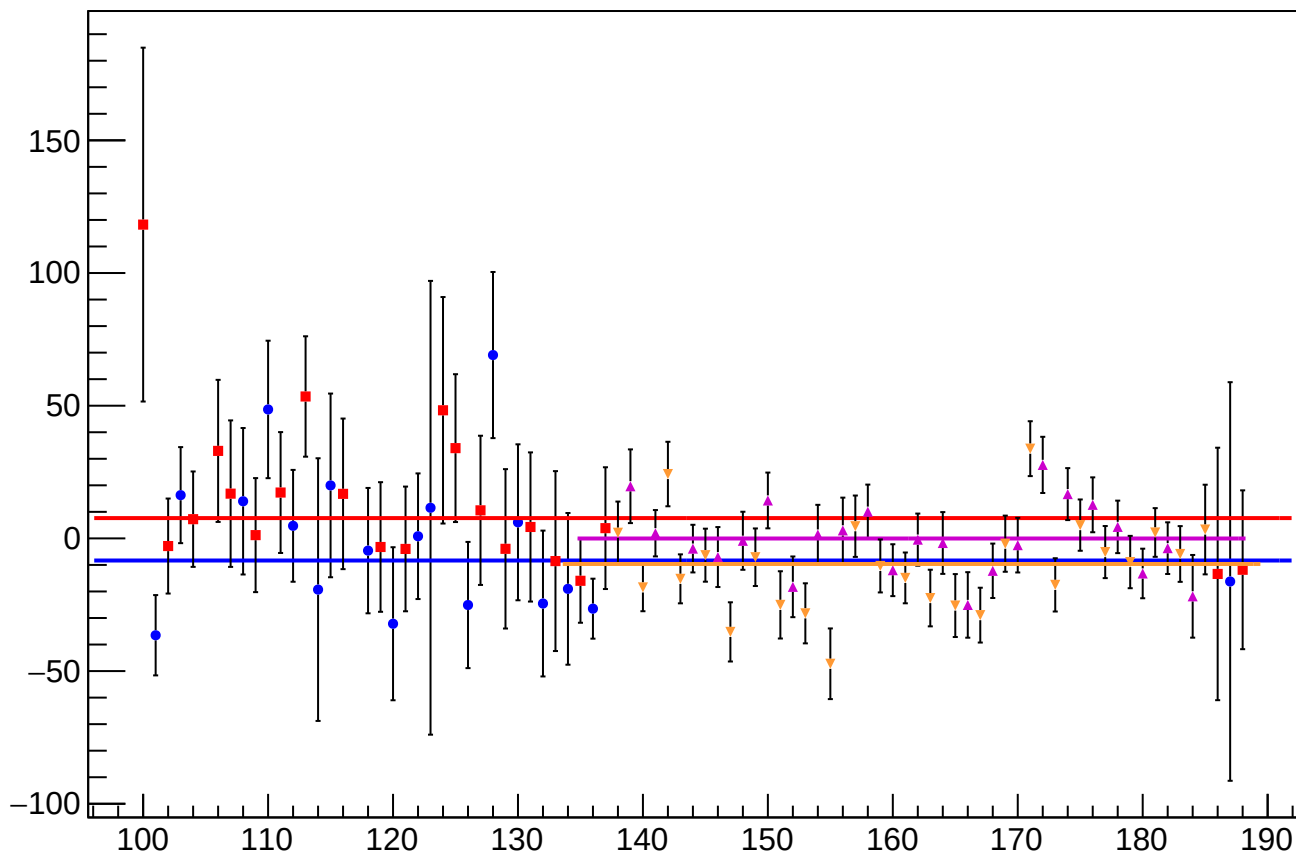
Right: 6983.404+/-1.316 χ^2/NDF : 2014330.7/38

In: 6754.673+/-0.985 χ^2/NDF : 1171494.1/40

Out: 6681.648+/-0.932 χ^2/NDF : 1707274.3/45

All: 6716.154+/-0.677 χ^2/NDF : 2881669.3/86

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.334 ± 5.493 $\chi^2/\text{NDF}: 22.7/17$

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

Right Out: 7.649 ± 5.445 $\chi^2/\text{NDF}: 14.1/20$

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

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

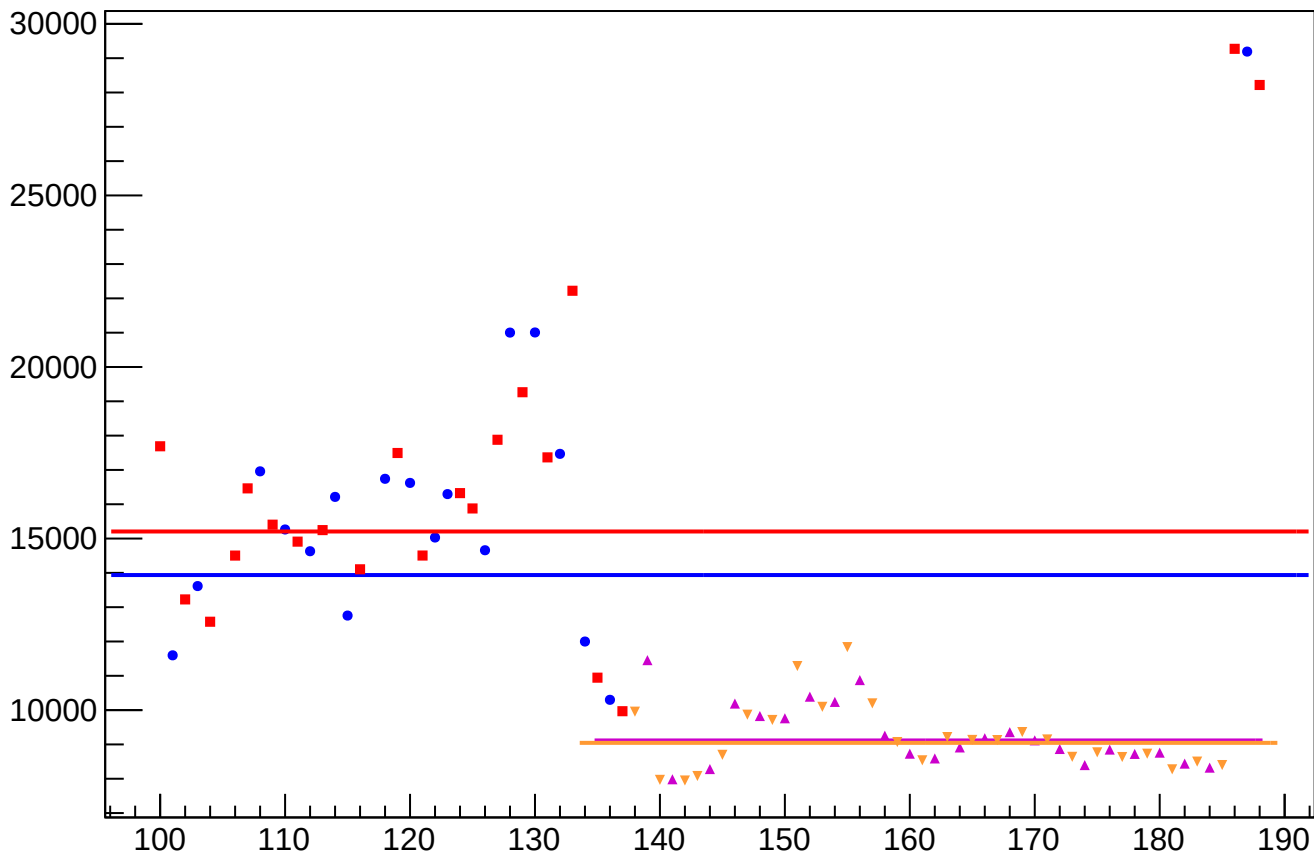
Right: -0.272 ± 3.867 $\chi^2/\text{NDF}: 41.1/38$

In: -1.188 ± 2.042 $\chi^2/\text{NDF}: 55.5/40$

Out: -7.361 ± 1.977 $\chi^2/\text{NDF}: 82.7/45$

All: -4.375 ± 1.420 $\chi^2/\text{NDF}: 142.9/86$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13936.549+/-3.884 χ^2/NDF : 689170.9/17

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

Right Out: 15206.053+/-3.850 χ^2/NDF : 1055621.5/20

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

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

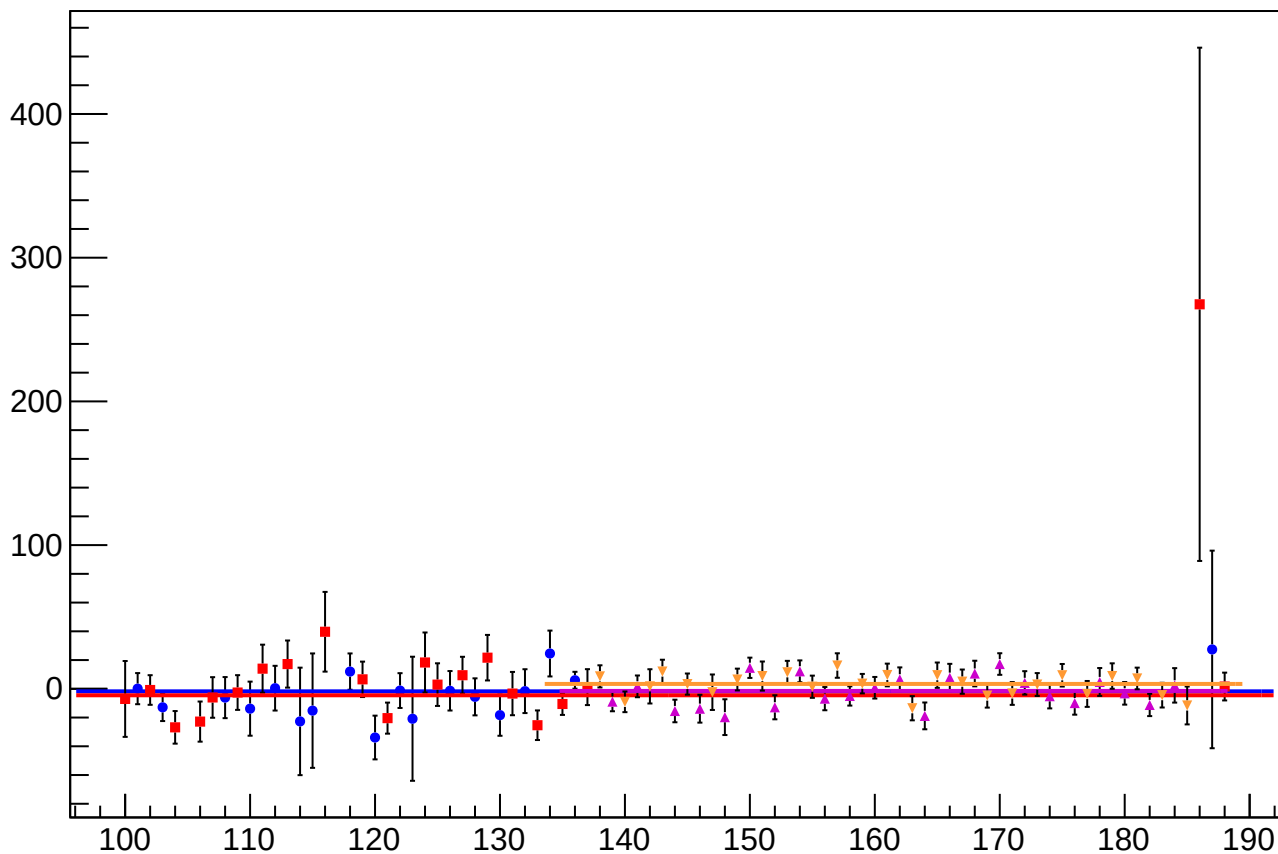
Right: 14576.849+/-2.735 χ^2/NDF : 1798669.4/38

In: 9782.249+/-1.444 χ^2/NDF : 2289027.9/40

Out: 9857.842+/-1.398 χ^2/NDF : 3606316.4/45

All: 9821.276+/-1.004 χ^2/NDF : 5896758.8/86

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.768 ± 3.096 χ^2/NDF : 14.2/17

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

Right Out: -4.509 ± 2.834 χ^2/NDF : 27.3/20

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

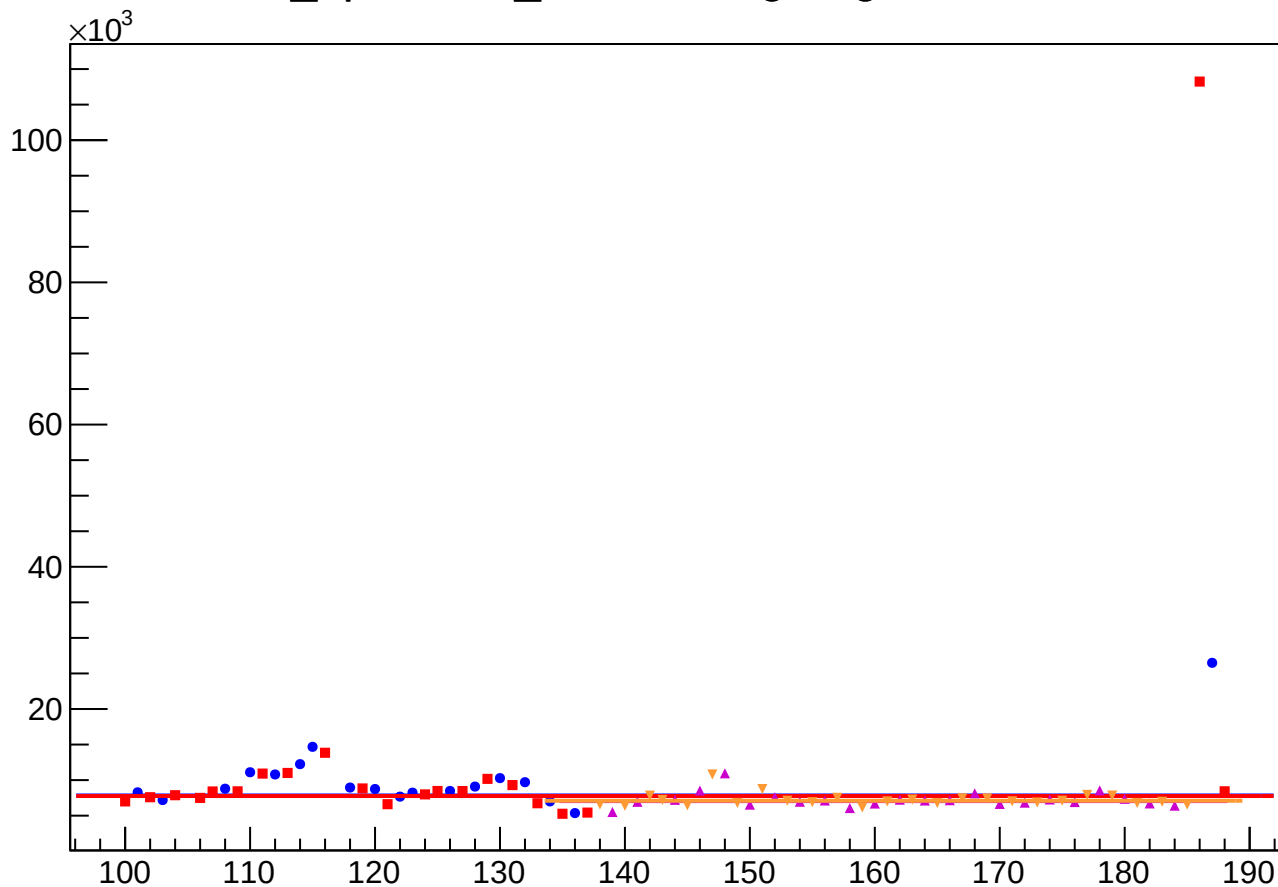
Right: -3.259 ± 2.091 χ^2/NDF : 41.9/38

In: -1.547 ± 1.497 χ^2/NDF : 51.0/40

Out: 1.356 ± 1.437 χ^2/NDF : 52.4/45

All: -0.036 ± 1.037 χ^2/NDF : 105.4/86

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7835.922 $\pm$ 2.190 χ^2/NDF : 883959.1/17

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

Right Out: 7762.515 $\pm$ 2.004 χ^2/NDF : 1321040.6/20

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

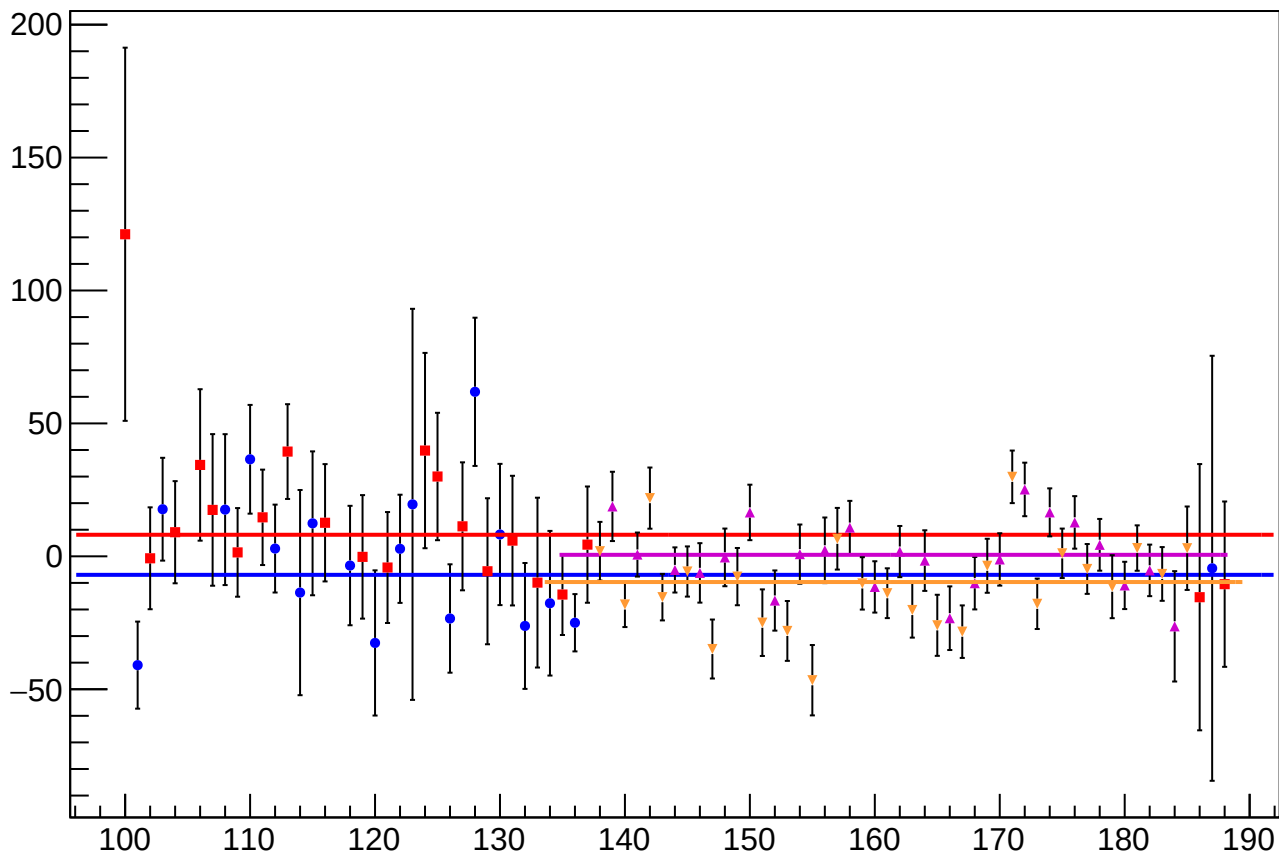
Right: 7795.978 $\pm$ 1.478 χ^2/NDF : 2205611.4/38

In: 7231.613 $\pm$ 1.059 χ^2/NDF : 1500805.1/40

Out: 7267.701 $\pm$ 1.016 χ^2/NDF : 1785053.7/45

All: 7250.390 $\pm$ 0.733 χ^2/NDF : 3286463.5/86

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.965 $\pm$ 5.086 χ^2/NDF : 24.0/17

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

Right Out: 8.111 $\pm$ 4.989 χ^2/NDF : 12.6/20

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

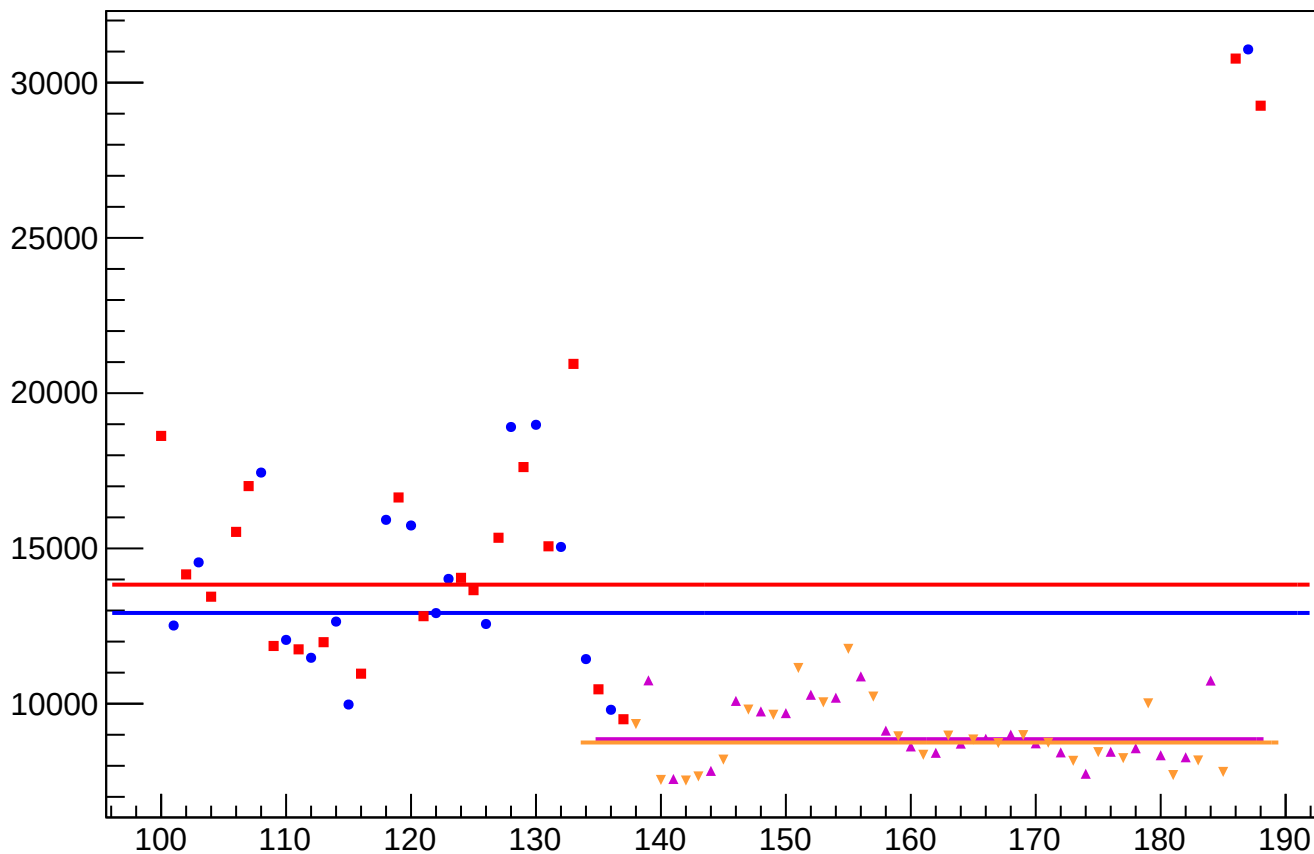
Right: 0.718 $\pm$ 3.561 χ^2/NDF : 41.1/38

In: -0.572 $\pm$ 1.975 χ^2/NDF : 55.7/40

Out: -7.079 $\pm$ 1.905 χ^2/NDF : 81.4/45

All: -3.944 $\pm$ 1.371 χ^2/NDF : 142.7/86

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12922.452 $\pm$ 3.596 χ^2 /NDF: 655686.7/17

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

Right Out: 13833.923 $\pm$ 3.528 χ^2 /NDF: 1234501.9/20

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

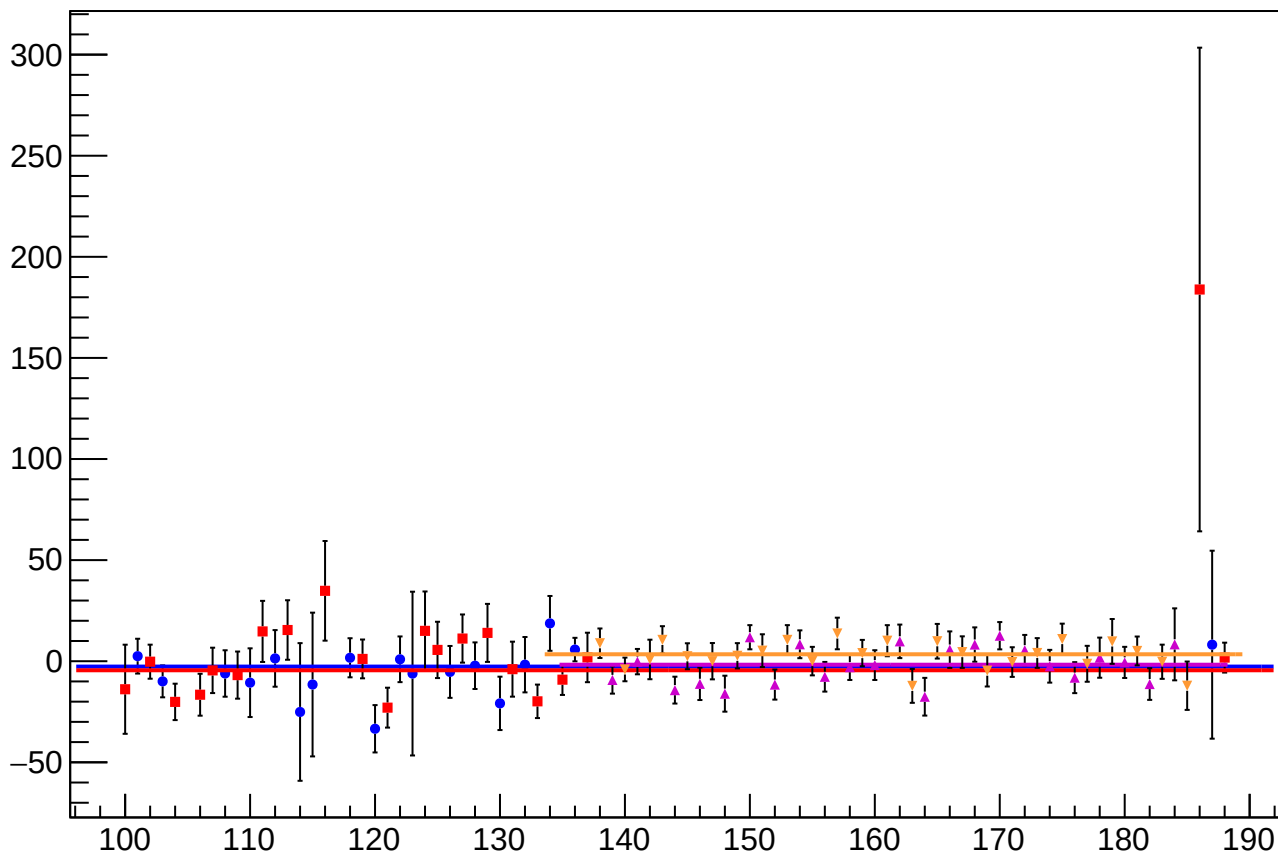
Right: 13386.965 $\pm$ 2.518 χ^2 /NDF: 1922928.2/38

In: 9470.622 $\pm$ 1.397 χ^2 /NDF: 2102531.7/40

Out: 9491.356 $\pm$ 1.347 χ^2 /NDF: 3472464.9/45

All: 9481.367 $\pm$ 0.969 χ^2 /NDF: 5575110.8/86

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.656 ± 2.732 χ^2/NDF : 15.9/17

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

Right Out: -4.480 ± 2.446 χ^2/NDF : 26.9/20

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

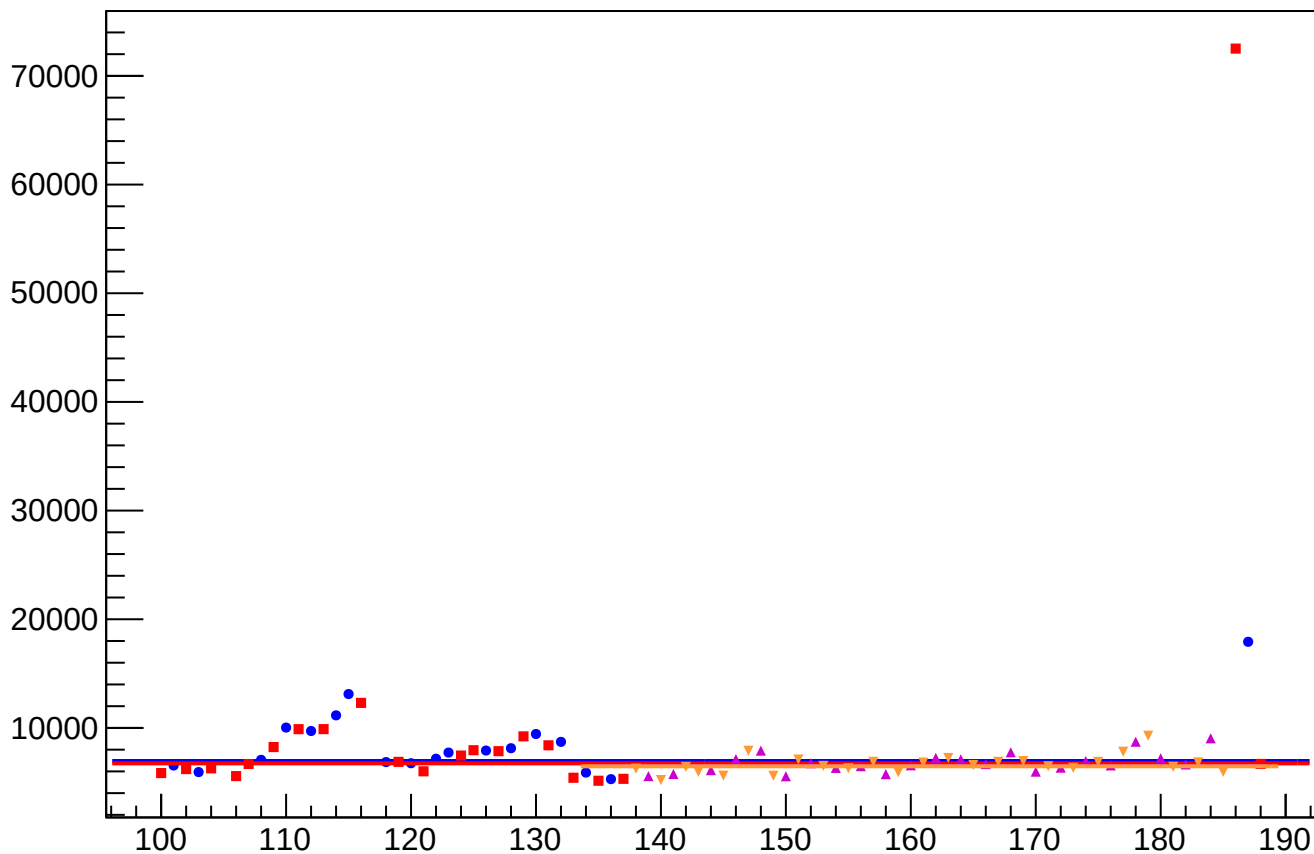
Right: -3.668 ± 1.822 χ^2/NDF : 43.1/38

In: -1.967 ± 1.371 χ^2/NDF : 49.6/40

Out: 1.216 ± 1.294 χ^2/NDF : 50.7/45

All: -0.283 ± 0.941 χ^2/NDF : 103.1/86

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6955.717 $\pm$ 1.932 χ^2/NDF : 698936.5/17

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

Right Out: 6739.705 $\pm$ 1.729 χ^2/NDF : 1265114.4/20

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

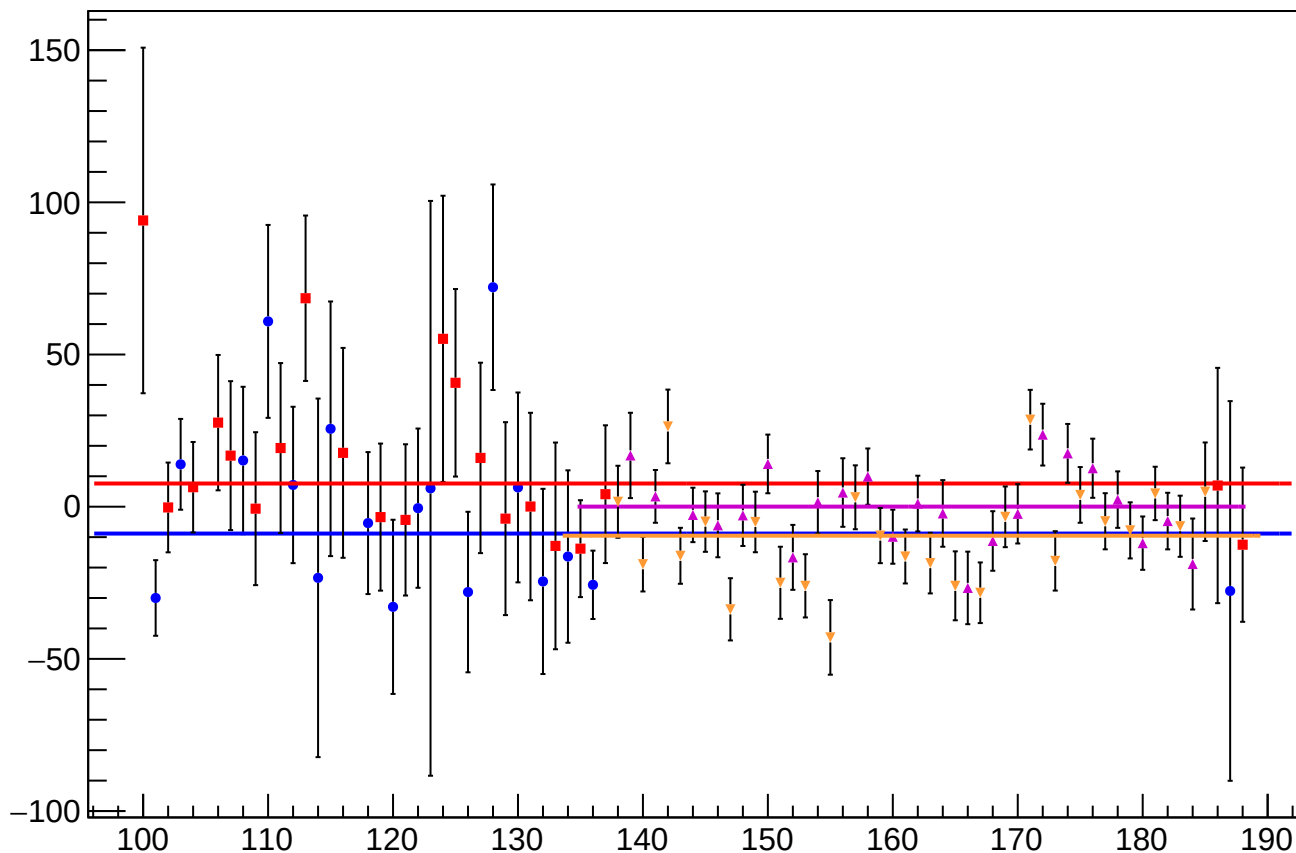
Right: 6835.816 $\pm$ 1.288 χ^2/NDF : 1970992.7/38

In: 6638.024 $\pm$ 0.970 χ^2/NDF : 1199773.4/40

Out: 6544.740 $\pm$ 0.915 χ^2/NDF : 1769957.2/45

All: 6588.689 $\pm$ 0.666 χ^2/NDF : 2974624.1/86

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.827 $\pm$ 5.381 χ^2/NDF : 22.2/17

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

Right Out: 7.619 $\pm$ 5.338 χ^2/NDF : 14.7/20

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

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

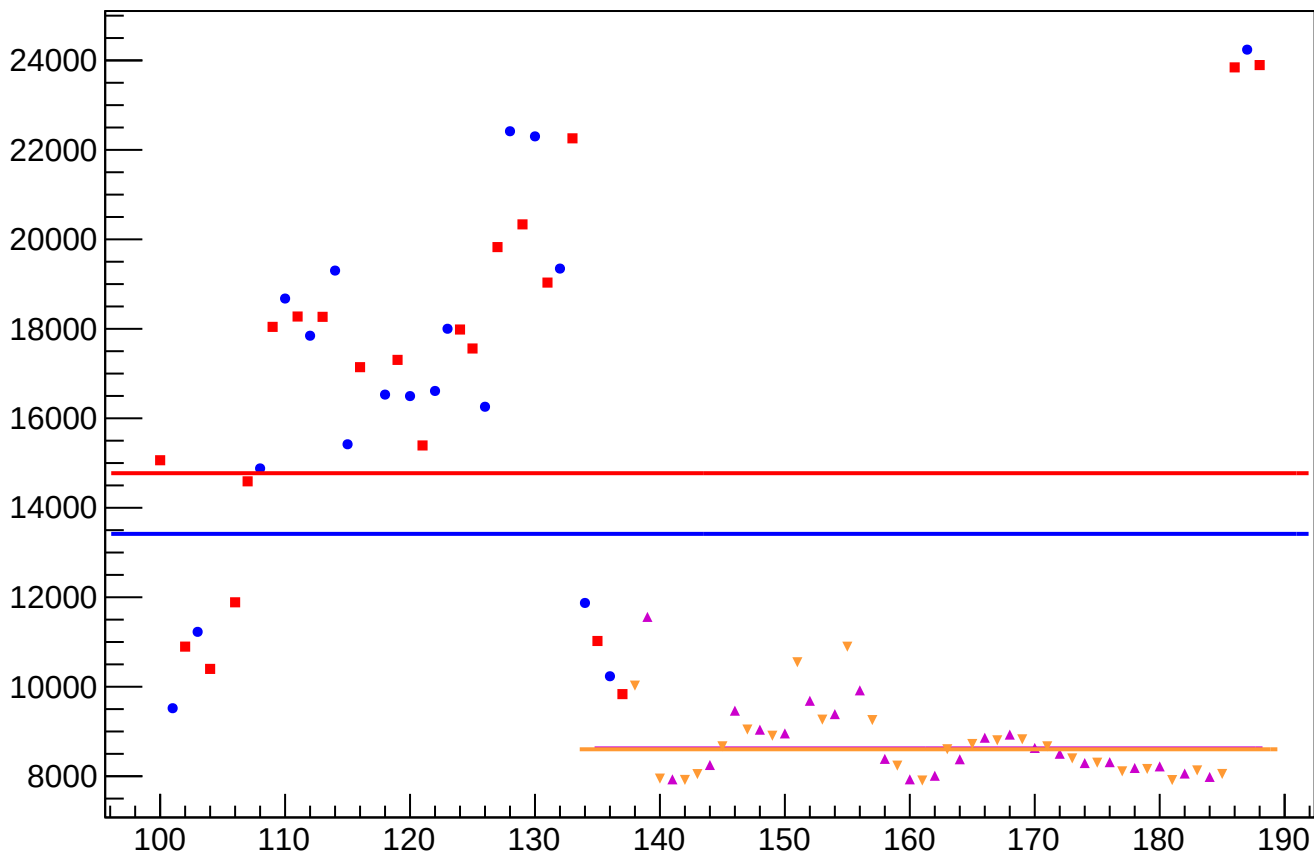
Right: -0.538 $\pm$ 3.790 χ^2/NDF : 41.6/38

In: -1.124 $\pm$ 1.940 χ^2/NDF : 54.5/40

Out: -7.390 $\pm$ 1.885 χ^2/NDF : 83.2/45

All: -4.346 $\pm$ 1.352 χ^2/NDF : 143.1/86

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13417.004 $\pm$ 3.805 χ^2/NDF : 1109920.8/17

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

Right Out: 14773.087 $\pm$ 3.775 χ^2/NDF : 1326864.7/20

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

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

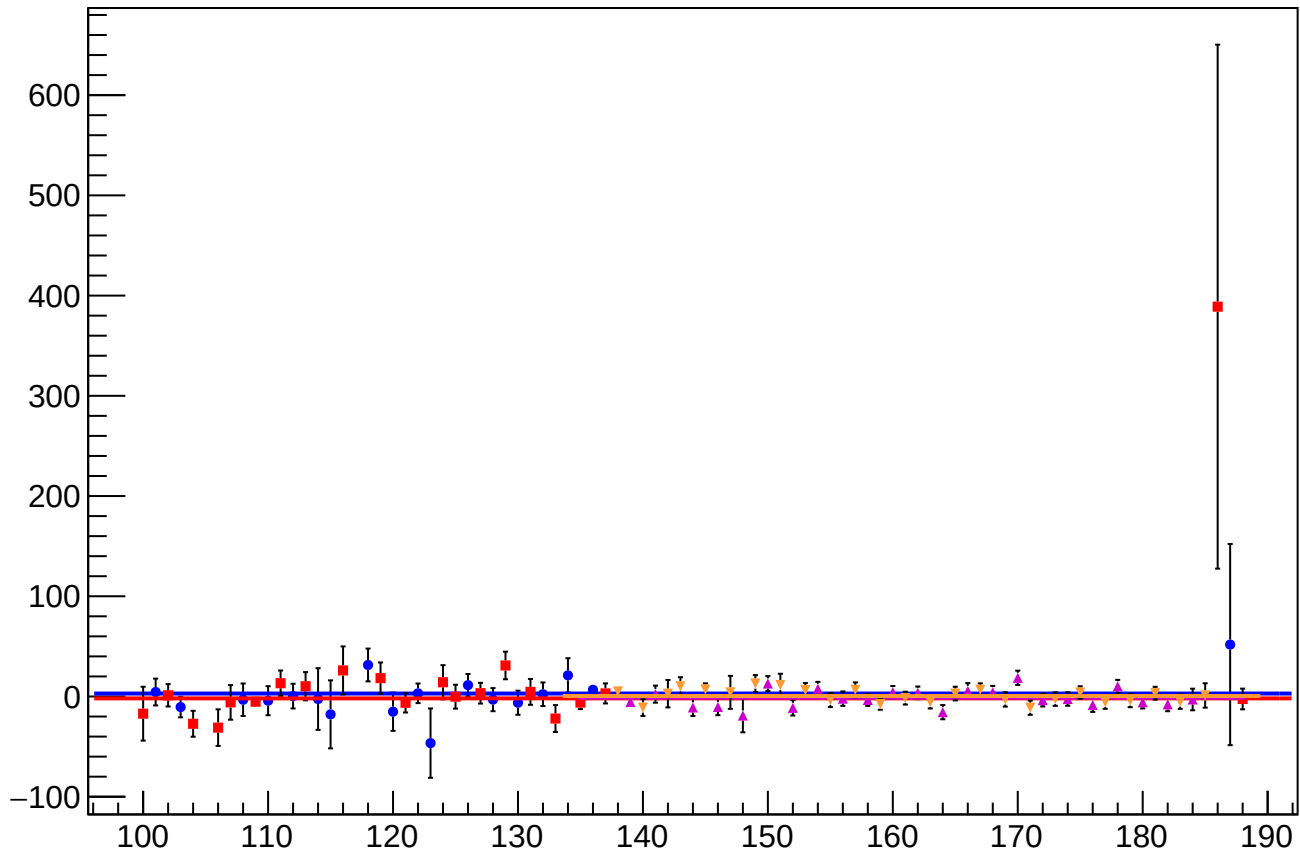
Right: 14100.464 $\pm$ 2.680 χ^2/NDF : 2500800.6/38

In: 9245.197 $\pm$ 1.372 χ^2/NDF : 2722396.9/40

Out: 9371.678 $\pm$ 1.333 χ^2/NDF : 3915130.9/45

All: 9310.243 $\pm$ 0.956 χ^2/NDF : 6641899.8/86

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.948 ± 2.757 $\chi^2/\text{NDF}: 12.0/17$

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

Right Out: -1.890 ± 2.378 $\chi^2/\text{NDF}: 25.0/20$

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

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

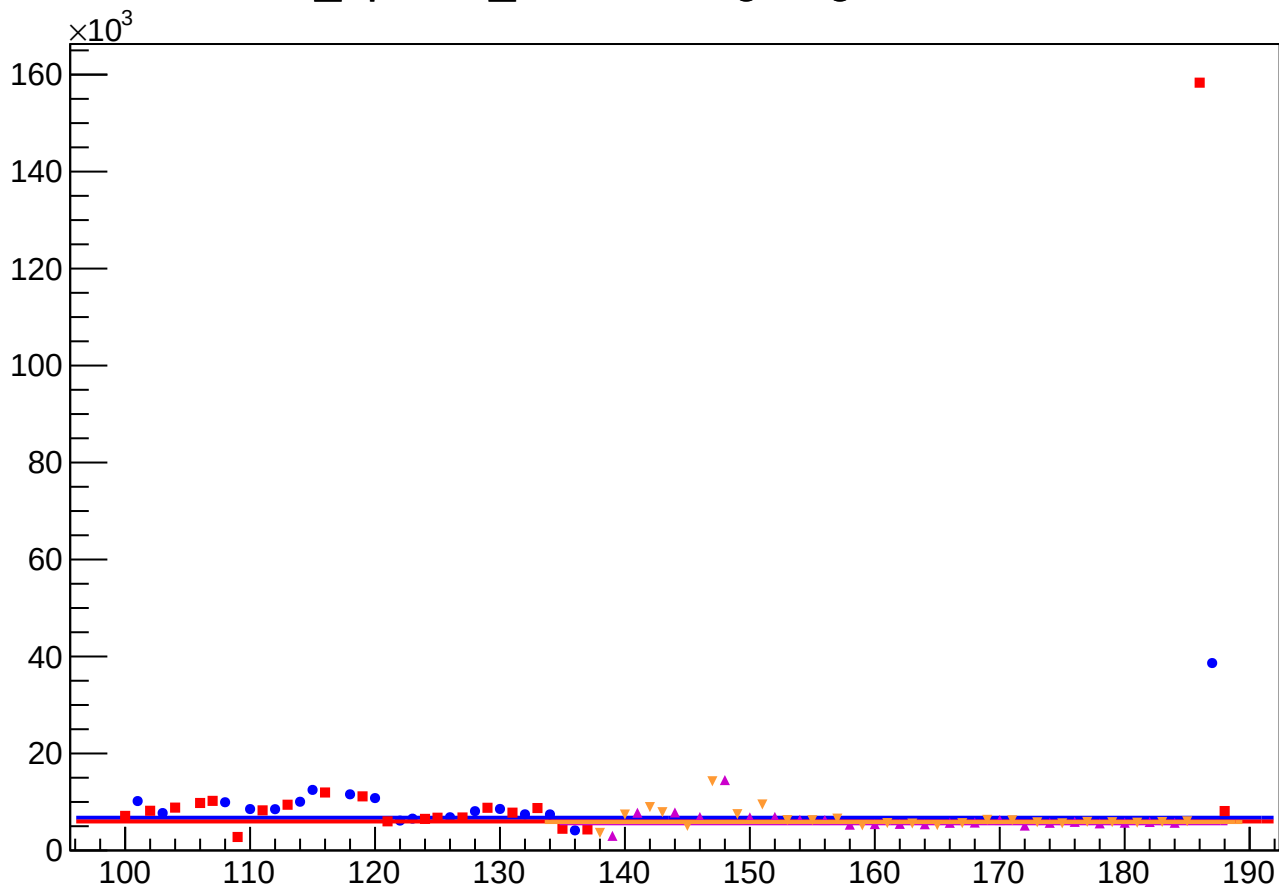
Right: 0.174 ± 1.801 $\chi^2/\text{NDF}: 38.8/38$

In: -0.421 ± 1.253 $\chi^2/\text{NDF}: 47.0/40$

Out: -0.142 ± 1.219 $\chi^2/\text{NDF}: 45.3/45$

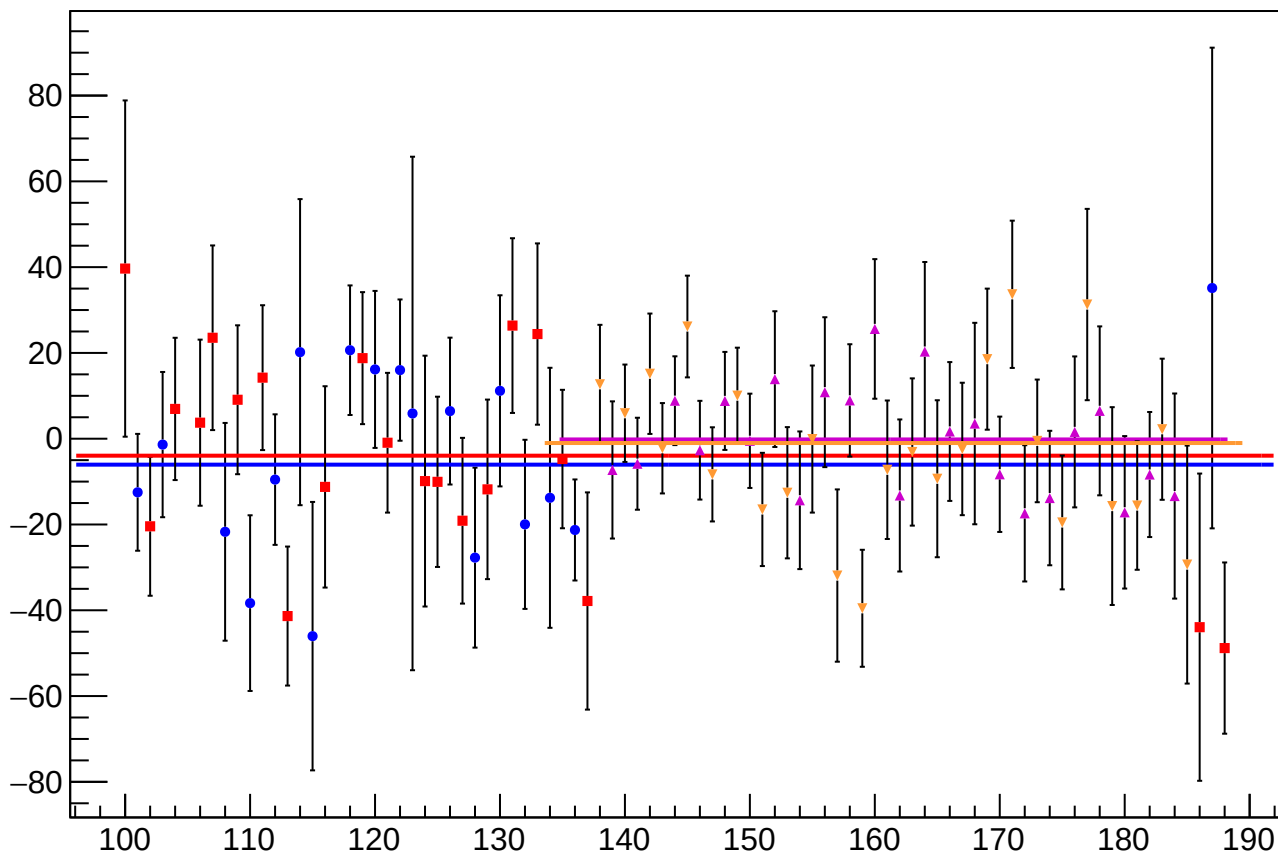
All: -0.278 ± 0.874 $\chi^2/\text{NDF}: 92.3/86$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6748.496 $\pm$ 1.949	χ^2 /NDF: 1593956.1/17	Left: 5726.555 $\pm$ 0.706	χ^2 /NDF: 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2 /NDF: 1691344.1/24	Right: 6306.139 $\pm$ 1.273	χ^2 /NDF: 4736904.5/38
Right Out: 5976.924 $\pm$ 1.682	χ^2 /NDF: 3053118.3/20	In: 5834.679 $\pm$ 0.886	χ^2 /NDF: 3960681.4/40
Left In: 5596.879 $\pm$ 0.994	χ^2 /NDF: 2089750.1/22	Out: 5889.706 $\pm$ 0.862	χ^2 /NDF: 4748110.8/45
		All: 5862.948 $\pm$ 0.618	χ^2 /NDF: 8710774.9/86

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.049 ± 4.510 χ^2/NDF : 16.8/17

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

Right Out: -3.957 ± 4.250 χ^2/NDF : 26.9/20

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

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

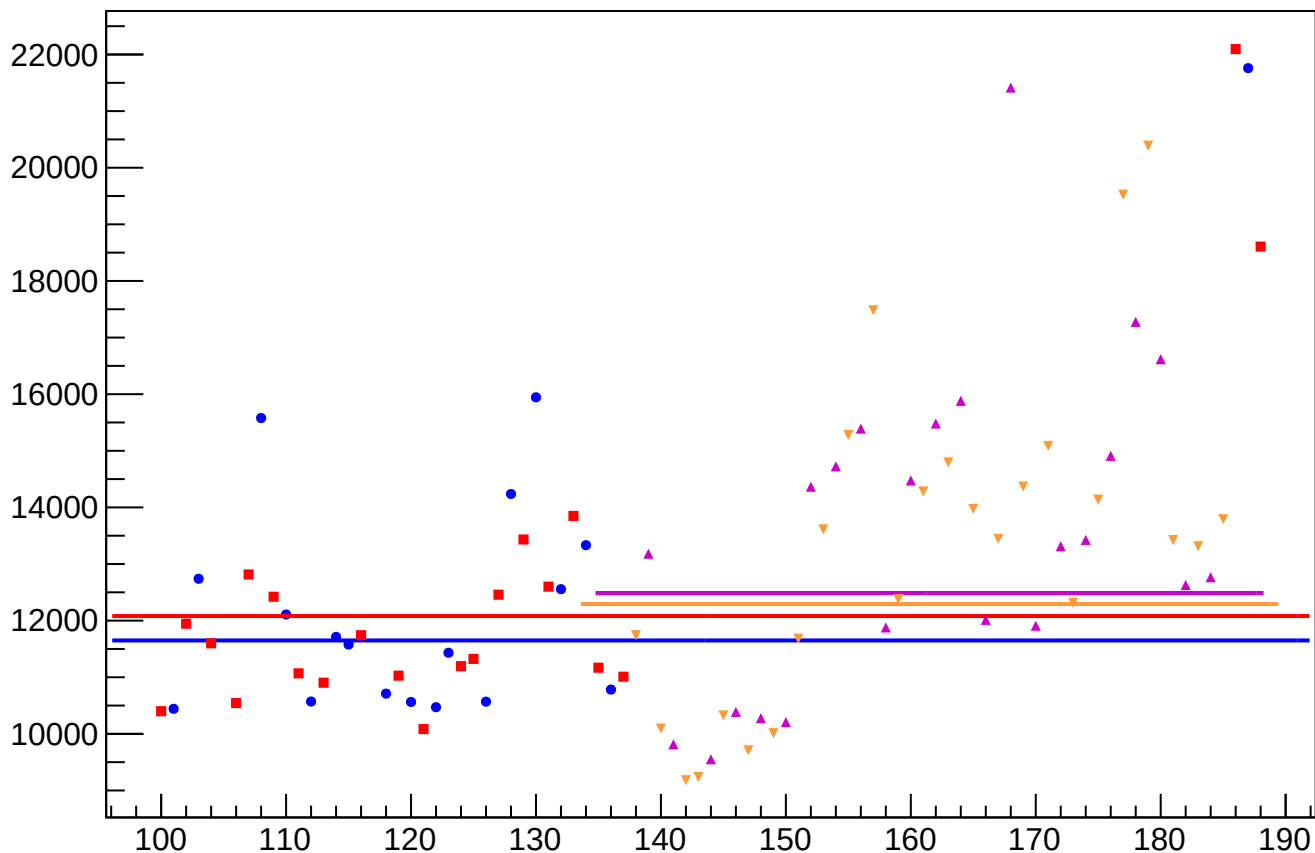
Right: -4.941 ± 3.093 χ^2/NDF : 43.8/38

In: -2.031 ± 2.536 χ^2/NDF : 30.3/40

Out: -1.963 ± 2.419 χ^2/NDF : 60.6/45

All: -1.995 ± 1.750 χ^2/NDF : 91.0/86

diff_bpm11X_rms vs Slug, Sign Corrected



Left: 12386.599 $\pm$ 1.501 χ^2/NDF : 2861298.1/47

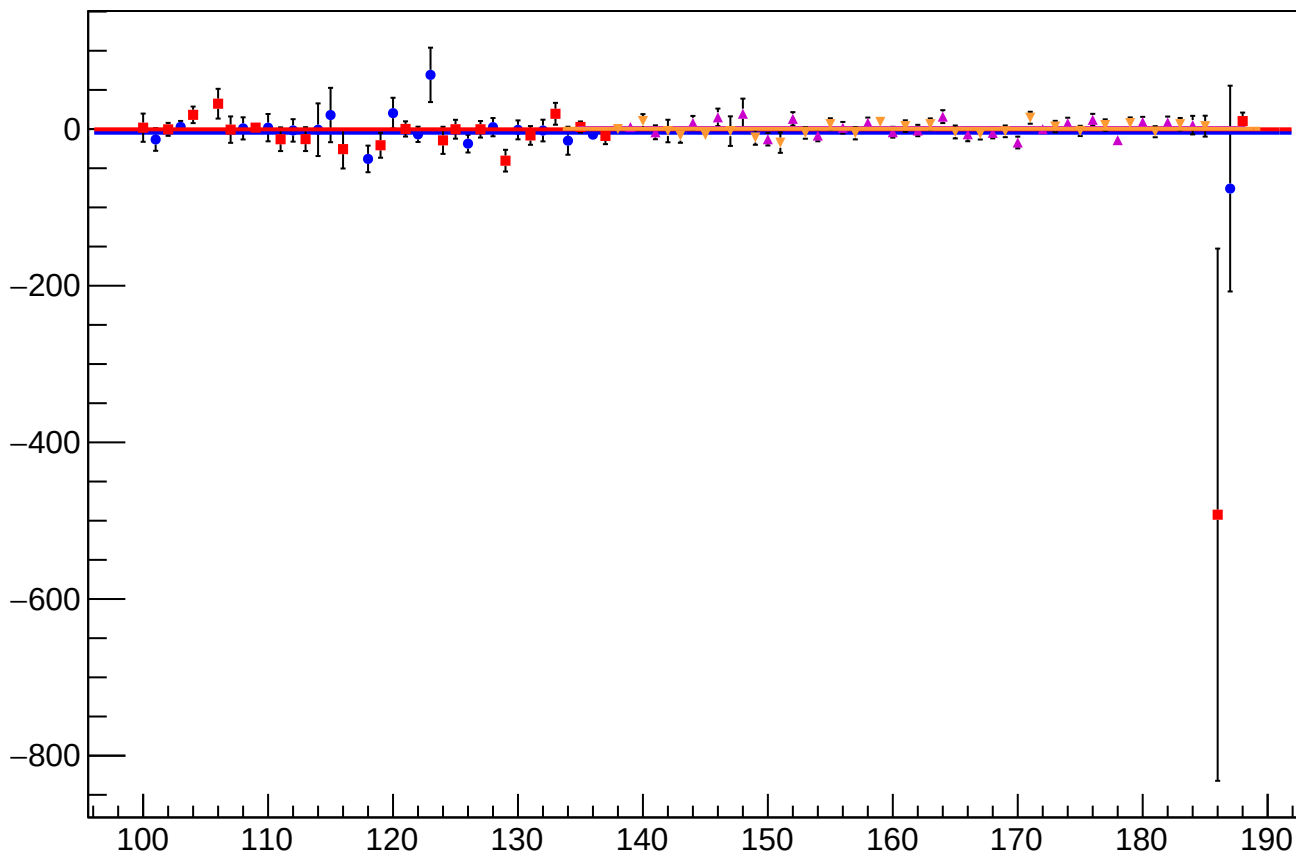
Right: 11878.375 $\pm$ 2.187 χ^2/NDF : 804745.0/38

In: 12223.548 $\pm$ 1.793 χ^2/NDF : 1708859.8/40

Out: 12224.093 $\pm$ 1.710 χ^2/NDF : 1993888.6/45

All: 12223.833 $\pm$ 1.238 χ^2/NDF : 3702748.5/8

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.648 ± 2.781 χ^2/NDF : 15.1/17

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

Right Out: -0.342 ± 2.372 χ^2/NDF : 25.6/20

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

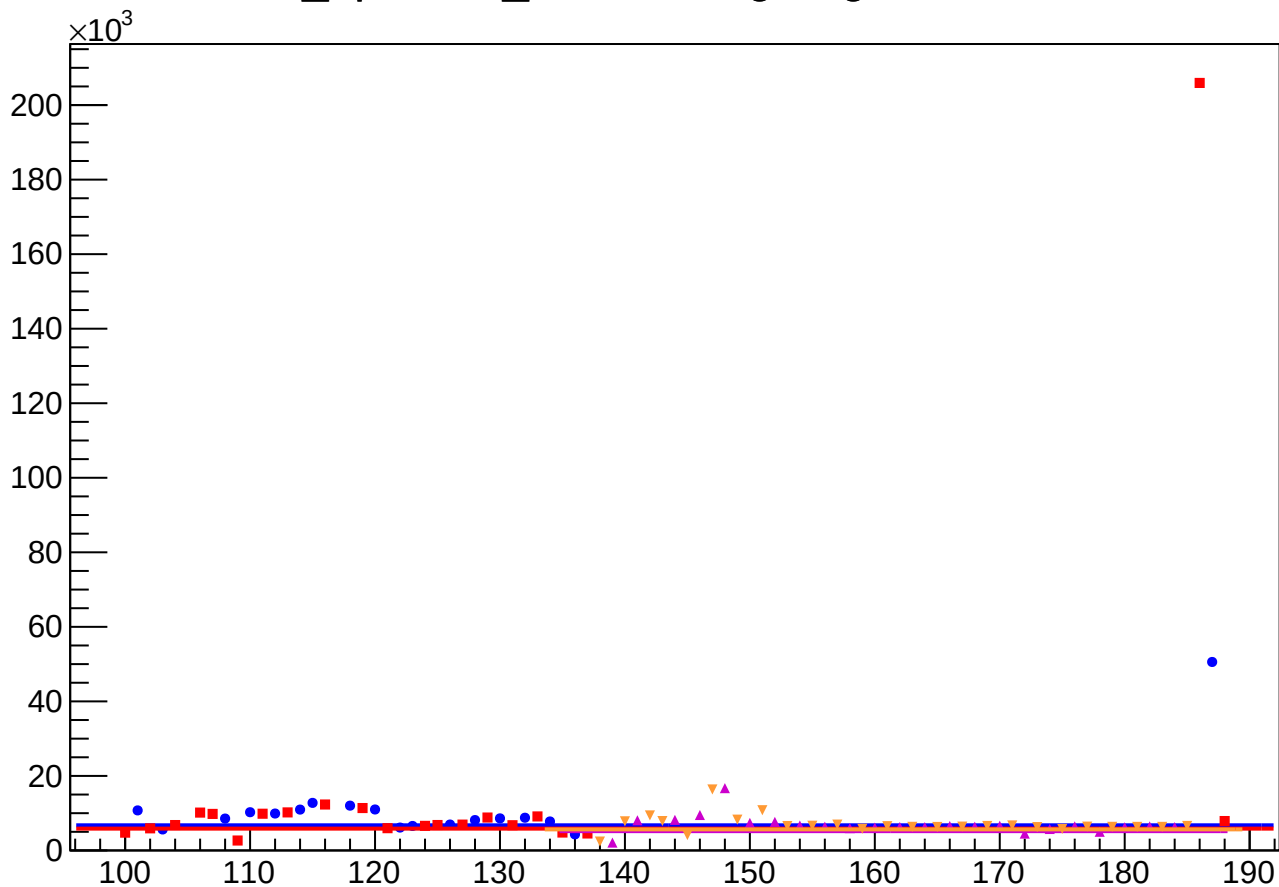
Right: -2.155 ± 1.805 χ^2/NDF : 42.1/38

In: 0.100 ± 1.240 χ^2/NDF : 52.7/40

Out: 0.209 ± 1.228 χ^2/NDF : 45.0/45

All: 0.155 ± 0.872 χ^2/NDF : 97.7/86

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6750.584+/-1.967 χ^2/NDF : 1667269.3/17

Left Out: 5655.639+/-1.014 χ^2/NDF : 4124124.3/24

Right Out: 5857.425+/-1.677 χ^2/NDF : 2932441.2/20

Left In: 5180.743+/-0.980 χ^2/NDF : 5350053.6/22

Left: 5409.966+/-0.705 χ^2/NDF : 9587556.1/47

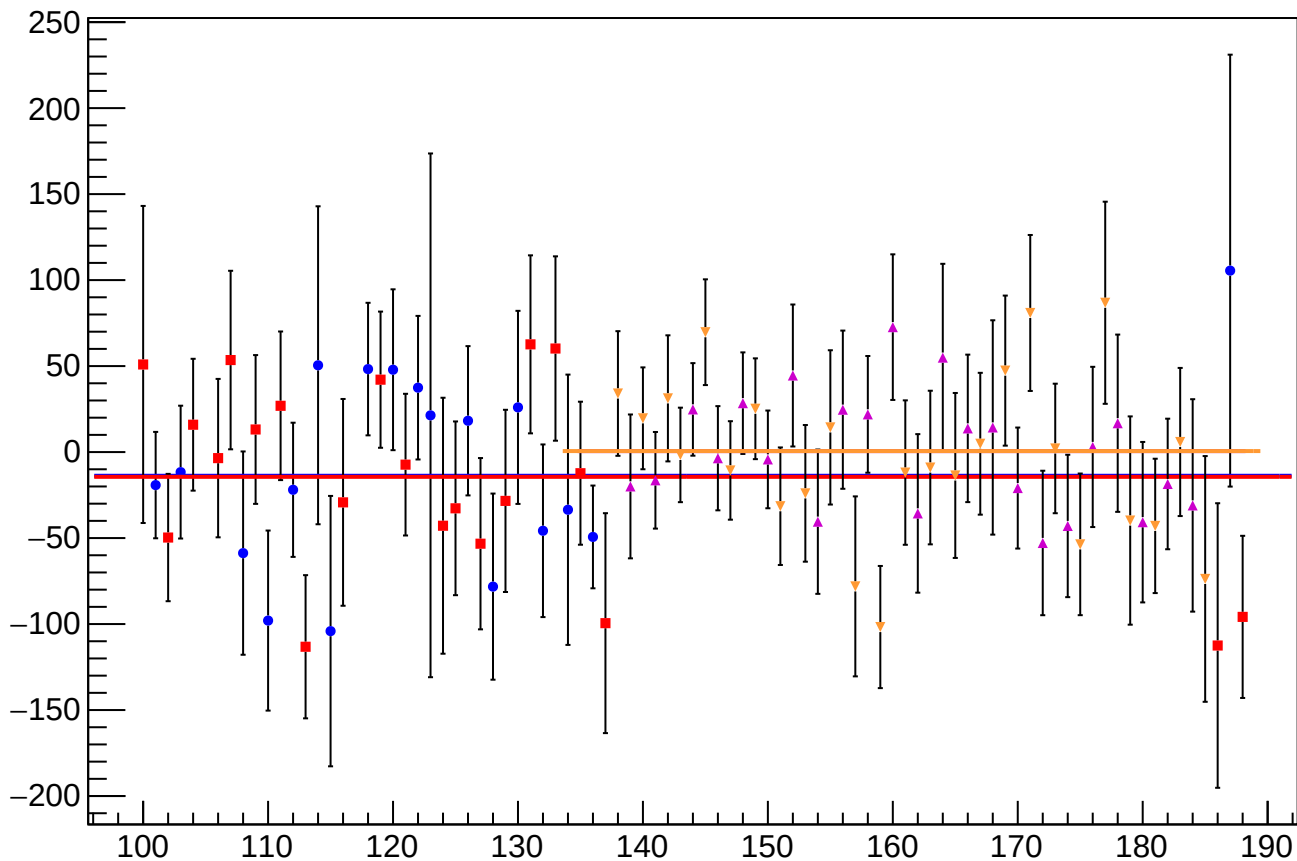
Right: 6233.559+/-1.276 χ^2/NDF : 4719109.8/38

In: 5492.950+/-0.877 χ^2/NDF : 7527794.2/40

Out: 5709.676+/-0.868 χ^2/NDF : 7067161.7/45

All: 5602.431+/-0.617 χ^2/NDF : 14625803.7/8

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -13.779 $\pm$ 11.192 χ^2/NDF : 16.2/17

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

Right Out: -14.393 $\pm$ 10.545 χ^2/NDF : 24.2/20

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

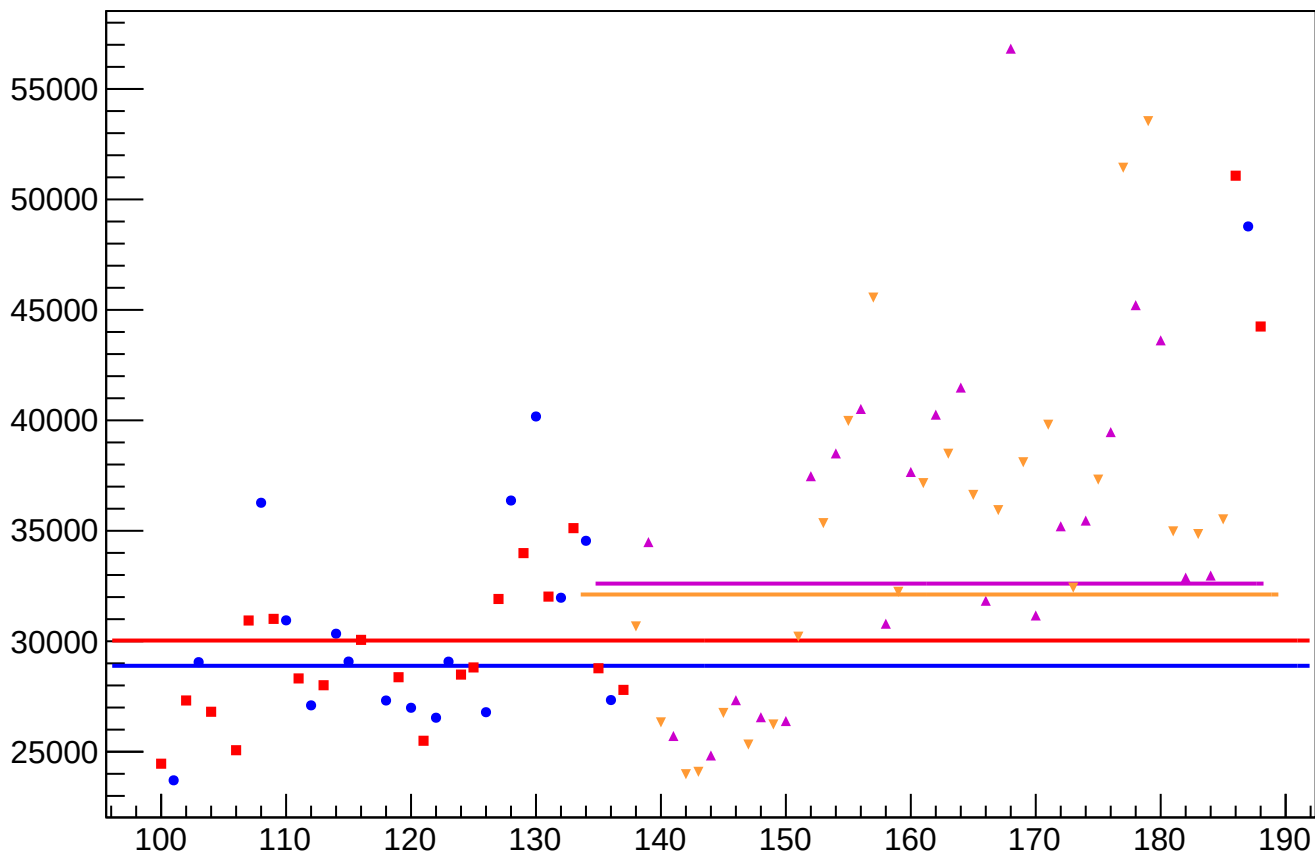
Right: -14.104 $\pm$ 7.675 χ^2/NDF : 40.3/38

In: -4.297 $\pm$ 6.516 χ^2/NDF : 31.5/40

Out: -4.619 $\pm$ 6.214 χ^2/NDF : 56.5/45

All: -4.466 $\pm$ 4.497 χ^2/NDF : 88.0/86

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28889.172 $\pm$ 7.914

χ^2/NDF : 305387.1/17

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right Out: 30033.362 $\pm$ 7.456

χ^2/NDF : 445184.1/20

Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483 $\pm$ 3.924 χ^2/NDF : 2939154.5/47

Right: 29495.328 $\pm$ 5.427 χ^2/NDF : 761644.7/38

In: 31348.849 $\pm$ 4.608

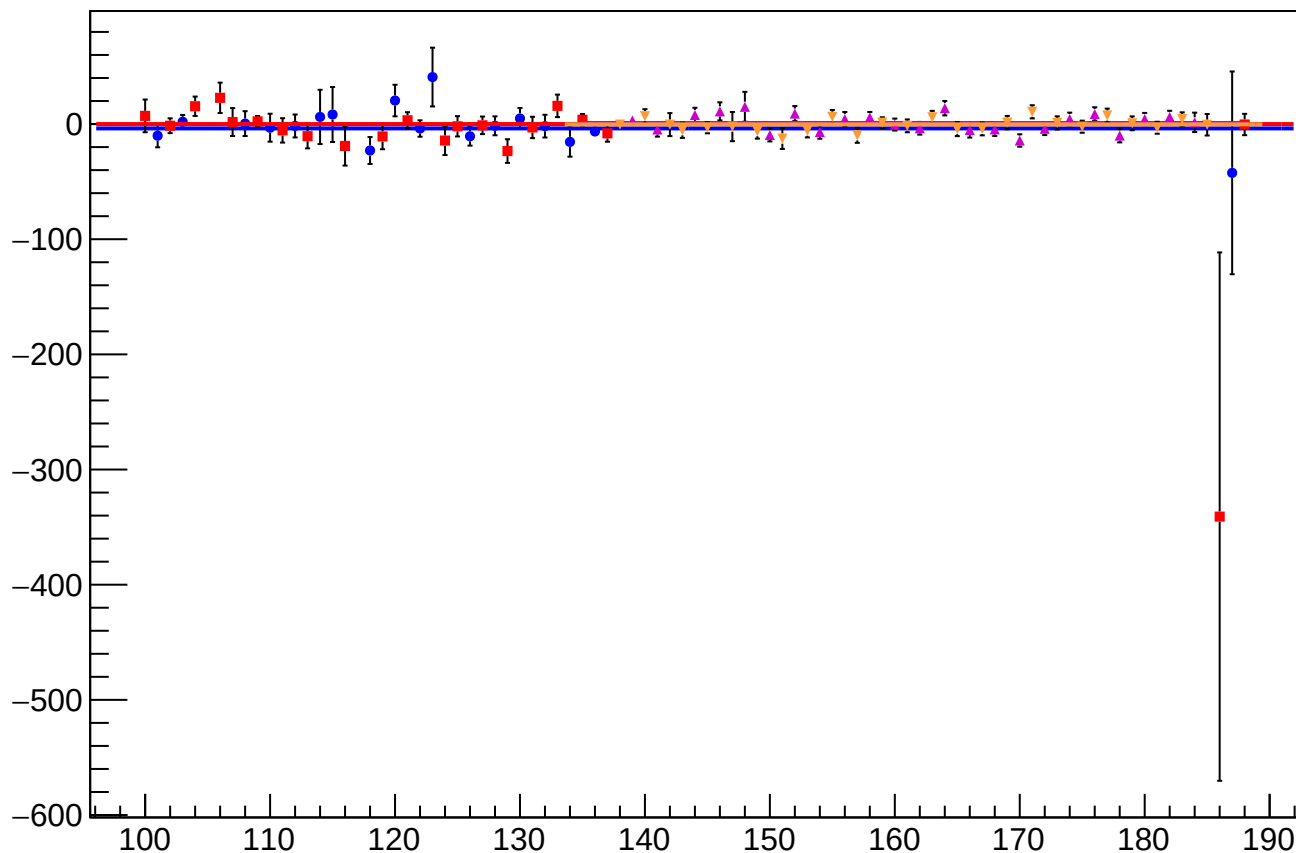
χ^2/NDF : 1849990.8/40

Out: 31393.611 $\pm$ 4.394

χ^2/NDF : 2032910.6/45

All: 31372.294 $\pm$ 3.180 χ^2/NDF : 3882950.9/86

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.793 ± 2.010 $\chi^2/\text{NDF}: 14.2/17$

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

Right Out: 0.002 ± 1.856 $\chi^2/\text{NDF}: 23.9/20$

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

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

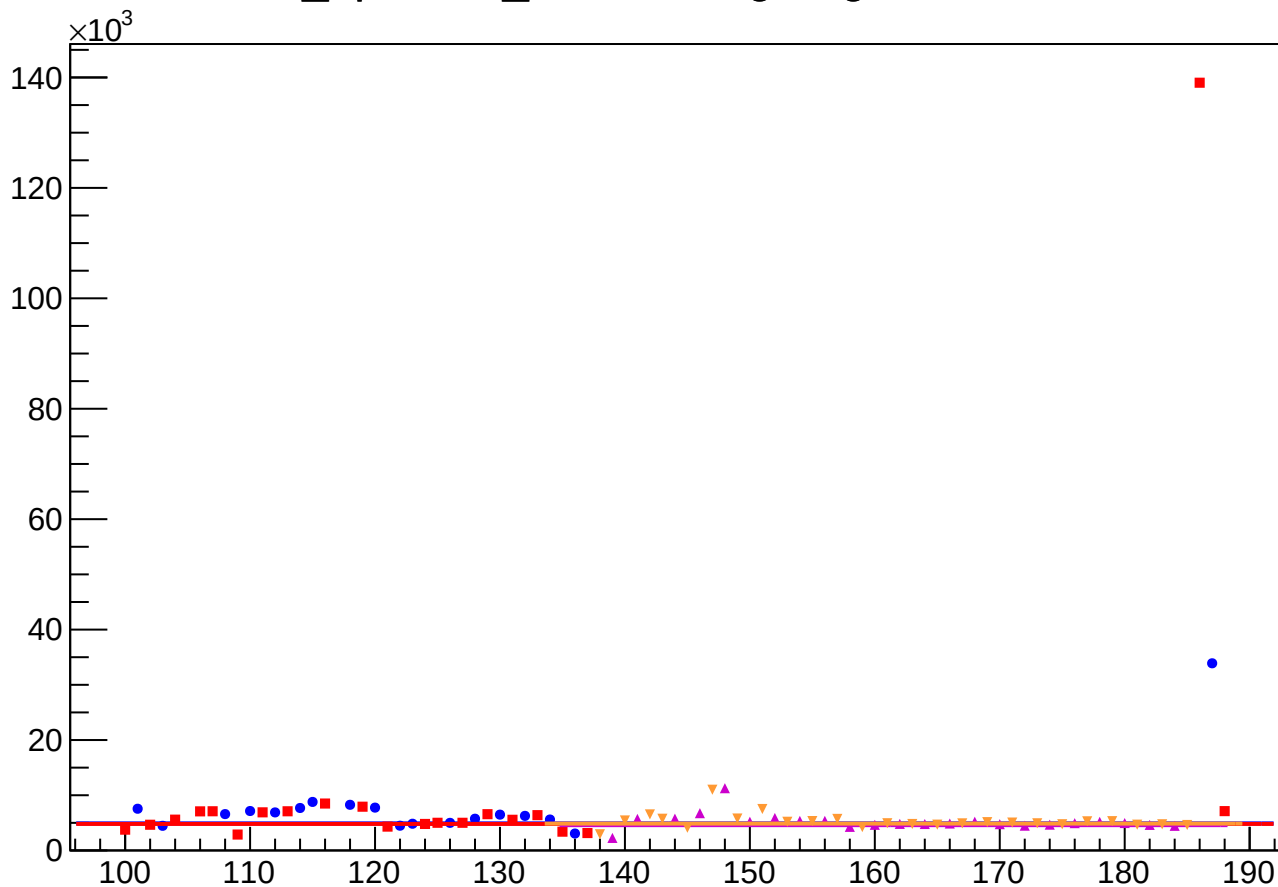
Right: -1.744 ± 1.363 $\chi^2/\text{NDF}: 40.0/38$

In: -0.244 ± 1.001 $\chi^2/\text{NDF}: 54.5/40$

Out: -0.182 ± 0.991 $\chi^2/\text{NDF}: 41.9/45$

All: -0.213 ± 0.704 $\chi^2/\text{NDF}: 96.4/86$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4902.875 ± 1.421 $\chi^2/\text{NDF}: 1625704.1/17$

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

Right Out: 4804.415 ± 1.312 $\chi^2/\text{NDF}: 2132484.6/20$

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

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

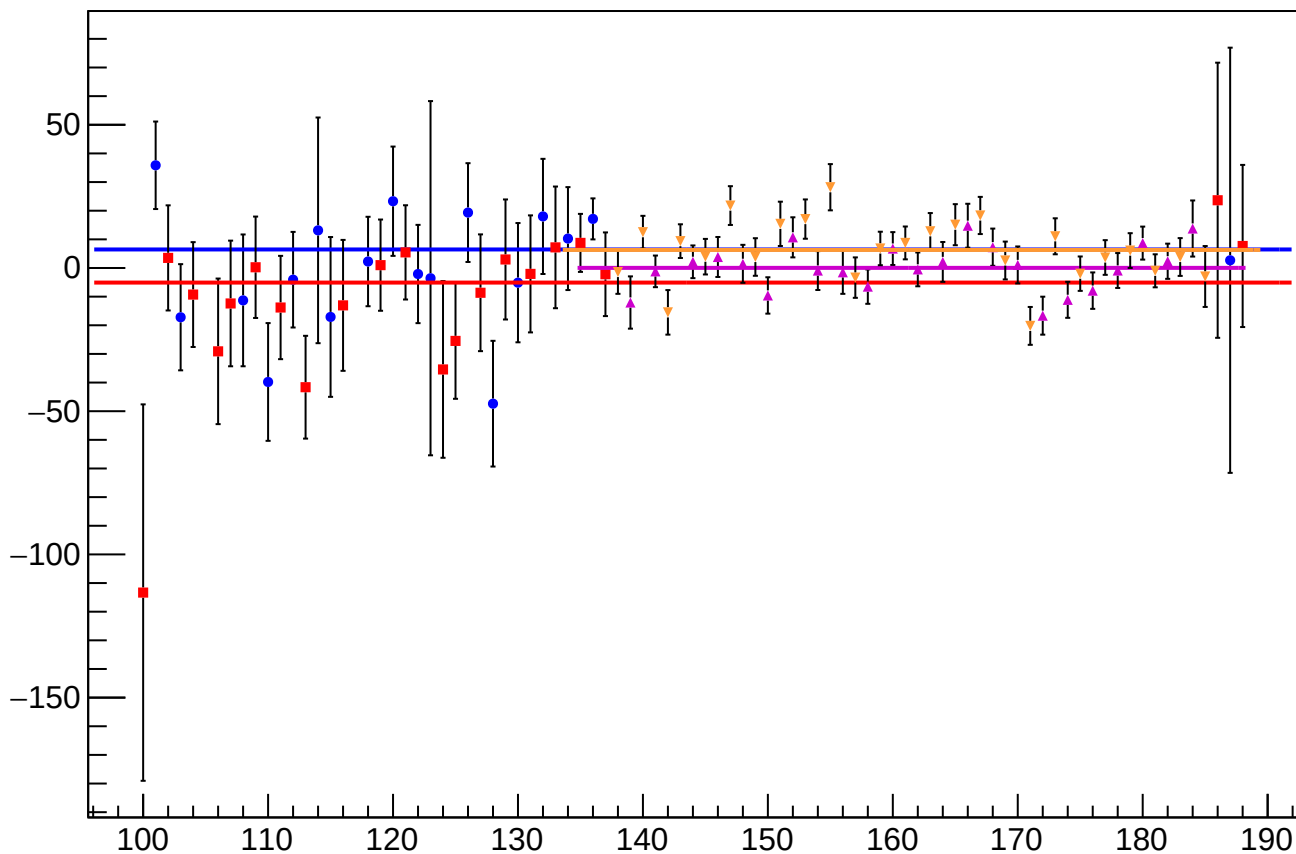
Right: 4849.730 ± 0.964 $\chi^2/\text{NDF}: 3760780.2/38$

In: 4661.690 ± 0.707 $\chi^2/\text{NDF}: 4142691.0/40$

Out: 4848.797 ± 0.701 $\chi^2/\text{NDF}: 3645572.0/45$

All: 4756.098 ± 0.498 $\chi^2/\text{NDF}: 7823554.4/86$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.470 $\pm$ 4.066 χ^2/NDF : 22.8/17

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

Right Out: -5.093 $\pm$ -4.165 χ^2/NDF : 14.1/20

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

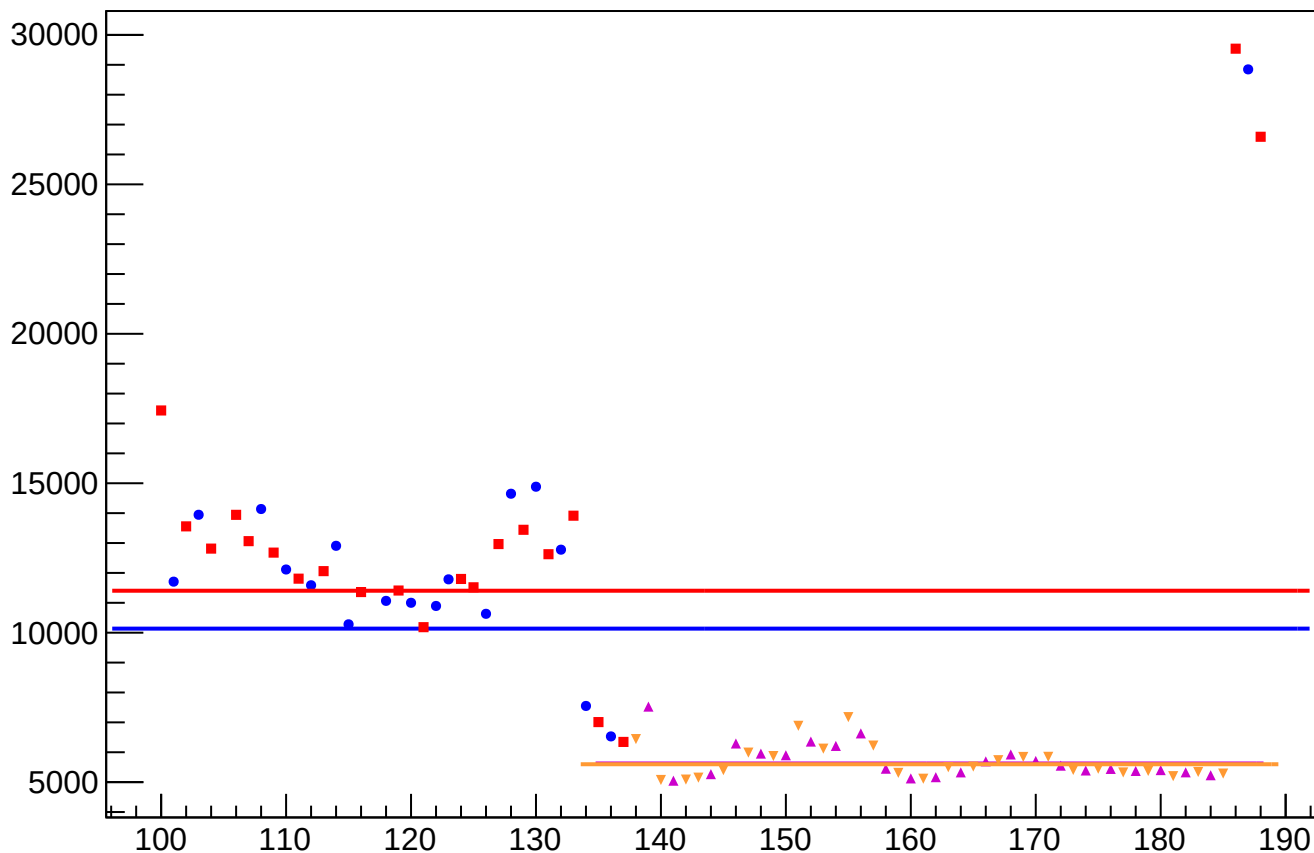
Right: 0.827 $\pm$ -2.909 χ^2/NDF : 40.8/38

In: 0.689 $\pm$ -1.288 χ^2/NDF :55.0/40

Out: 5.272 $\pm$ -1.252 χ^2/NDF :77.6/45

All: 3.046 $\pm$ -0.898 χ^2/NDF : 139.2/86

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10136.252+/-2.875 χ^2/NDF : 1126878.1/17

Left Out: 5598.786+/-0.928 χ^2/NDF : 283253.4/24

Right Out: 11404.061+/-2.945 χ^2/NDF : 1656246.0/20

Left In: 5625.163+/-0.960 χ^2/NDF : 272563.5/22

Left: 5611.528+/-0.667 χ^2/NDF : 556207.1/47

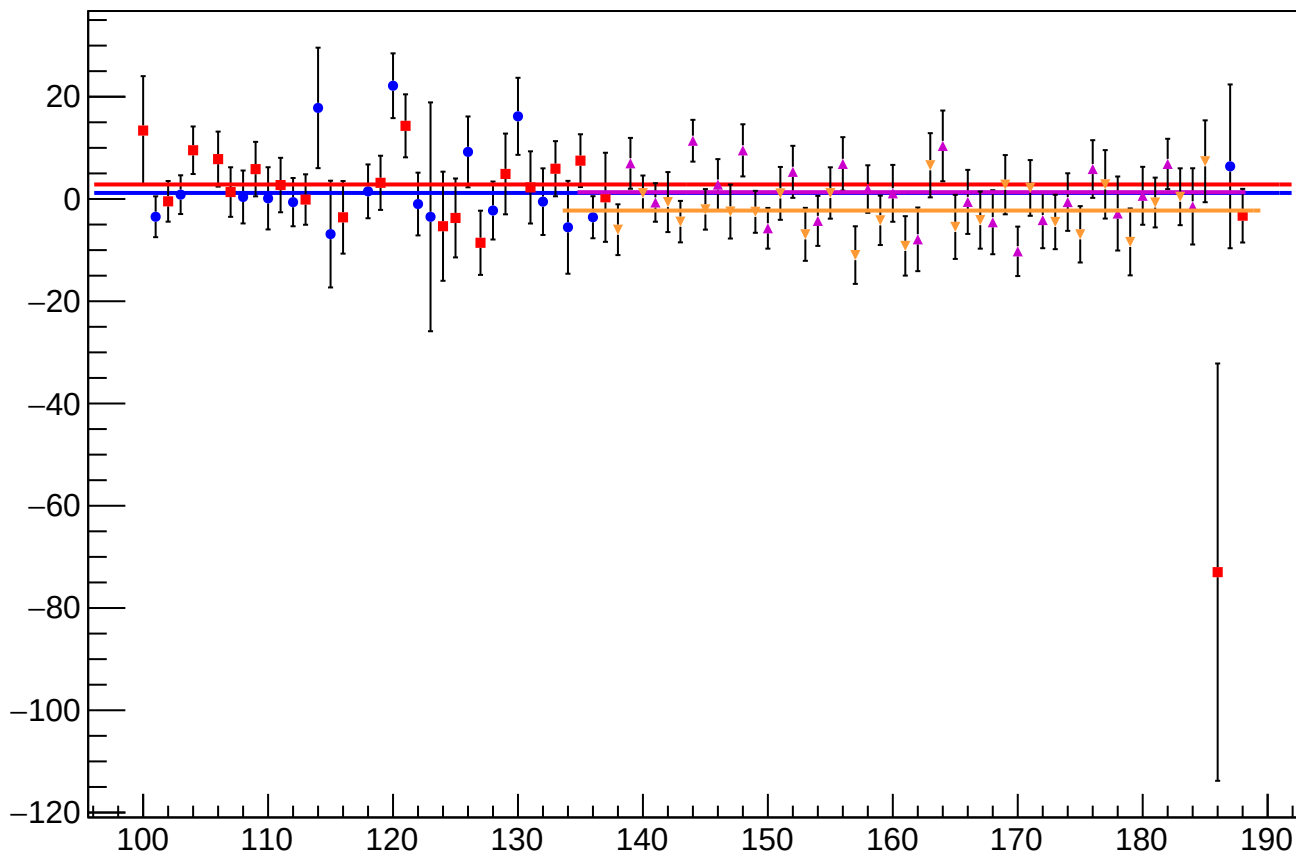
Right: 10754.941+/-2.057 χ^2/NDF : 2878011.4/38

In: 6077.697+/-0.911 χ^2/NDF : 3614241.8/40

Out: 6123.271+/-0.885 χ^2/NDF : 5474189.4/45

All: 6101.129+/-0.635 χ^2/NDF : 9089719.0/86

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.184 ± 1.392 $\chi^2/\text{NDF}: 23.0/17$

Left Out: -2.262 ± 1.030 $\chi^2/\text{NDF}: 15.5/24$

Right Out: 2.839 ± 1.293 $\chi^2/\text{NDF}: 20.4/20$

Left In: 1.328 ± 1.082 $\chi^2/\text{NDF}: 30.6/22$

Left: -0.555 ± 0.746 $\chi^2/\text{NDF}: 51.9/47$

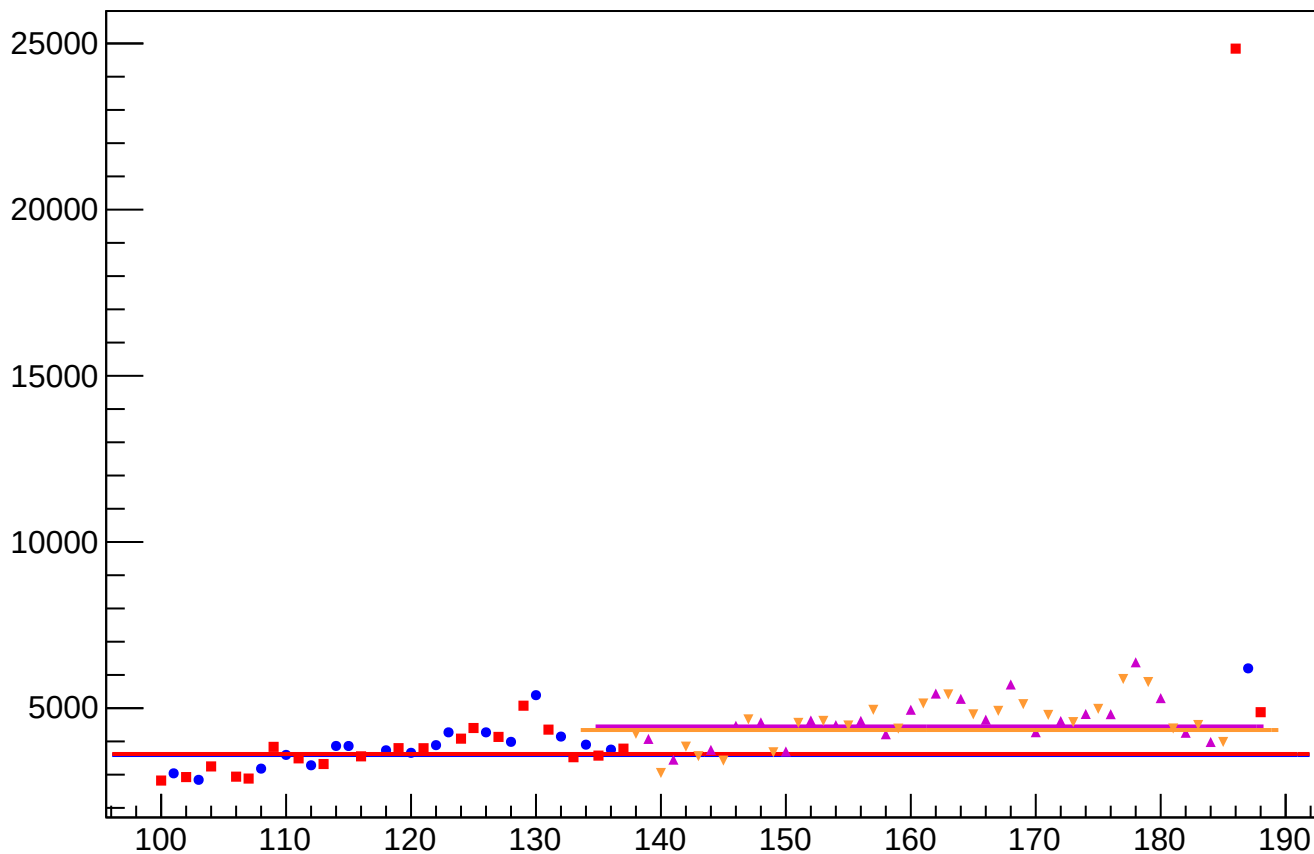
Right: 2.072 ± 0.948 $\chi^2/\text{NDF}: 44.1/38$

In: 1.274 ± 0.854 $\chi^2/\text{NDF}: 53.6/40$

Out: -0.282 ± 0.806 $\chi^2/\text{NDF}: 45.4/45$

All: 0.450 ± 0.586 $\chi^2/\text{NDF}: 100.8/86$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3590.400 $\pm$ 0.985 χ^2/NDF : 363813.1/17

Left Out: 4342.635 $\pm$ 0.728 χ^2/NDF : 993035.5/24

Right Out: 3622.119 $\pm$ 0.915 χ^2/NDF : 964099.0/20

Left In: 4450.007 $\pm$ 0.765 χ^2/NDF : 693229.8/22

Left: 4393.686 $\pm$ 0.528 χ^2/NDF : 1696596.0/47

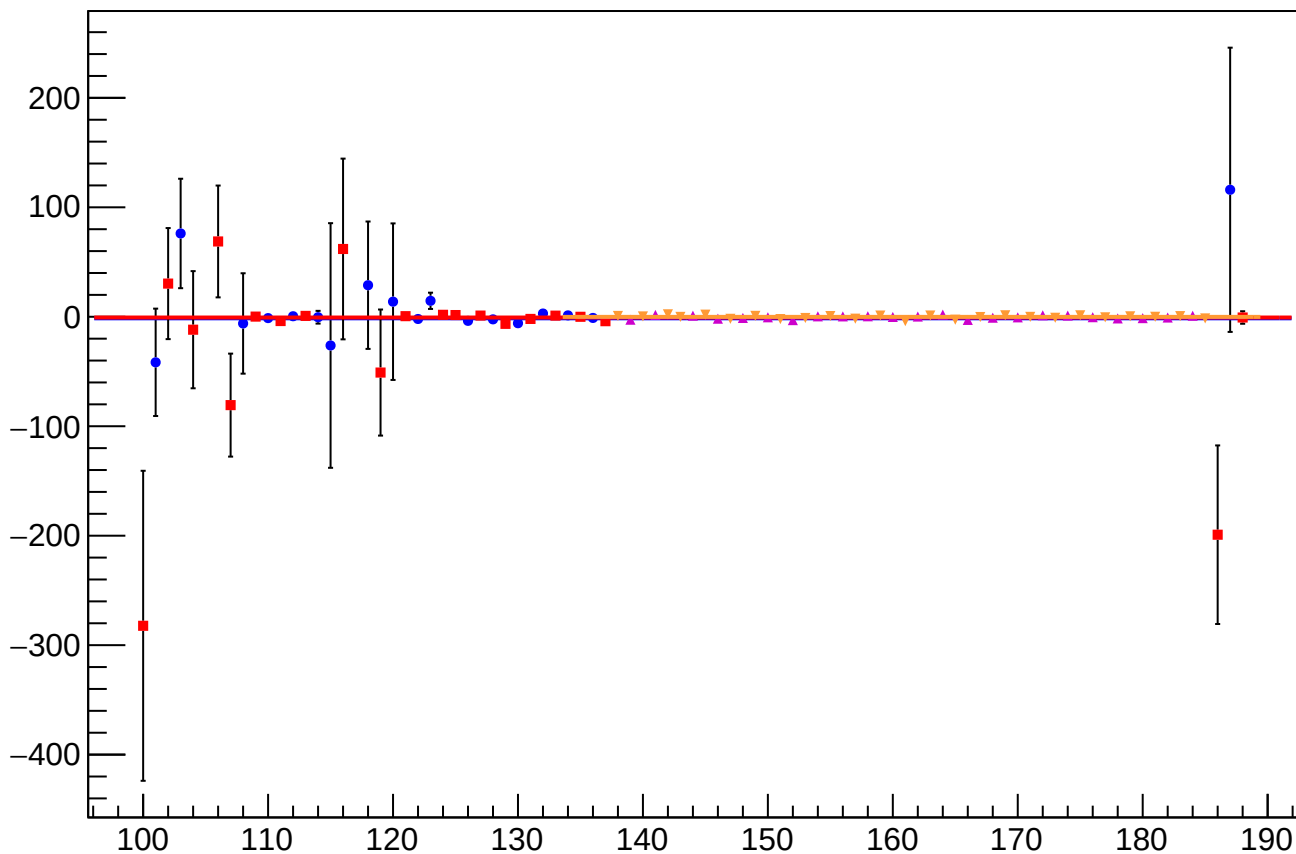
Right: 3607.427 $\pm$ 0.670 χ^2/NDF : 1328469.2/38

In: 4126.364 $\pm$ 0.604 χ^2/NDF : 1532306.8/40

Out: 4062.964 $\pm$ 0.570 χ^2/NDF : 2336908.6/45

All: 4092.810 $\pm$ 0.415 χ^2/NDF : 3875044.0/86

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.398 ± 0.751 $\chi^2/\text{NDF}: 17.5/17$

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

Right Out: -0.679 ± 0.708 $\chi^2/\text{NDF}: 27.4/20$

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

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

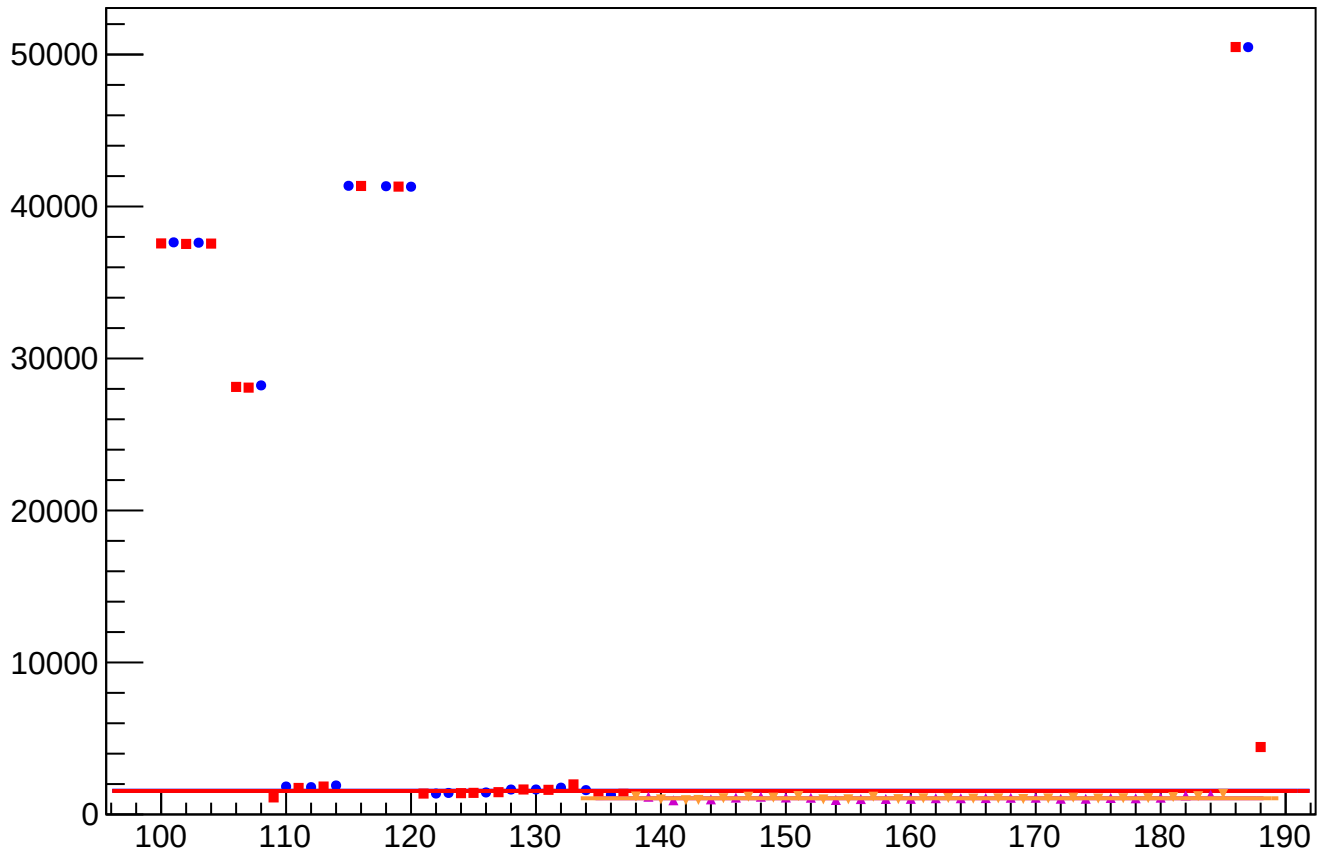
Right: -1.017 ± 0.515 $\chi^2/\text{NDF}: 45.4/38$

In: -0.379 ± 0.243 $\chi^2/\text{NDF}: 46.8/40$

Out: -0.156 ± 0.235 $\chi^2/\text{NDF}: 62.4/45$

All: -0.264 ± 0.169 $\chi^2/\text{NDF}: 109.7/86$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1562.166 $\pm$ 0.531 χ^2 /NDF: 5037205.0/17

Left Out: 1064.701 $\pm$ 0.176 χ^2 /NDF: 186511.5/24

Right Out: 1545.246 $\pm$ 0.500 χ^2 /NDF: 6136570.9/20

Left In: 1066.255 $\pm$ 0.182 χ^2 /NDF: 164232.1/22

Left: 1065.454 $\pm$ 0.126 χ^2 /NDF: 350781.3/47

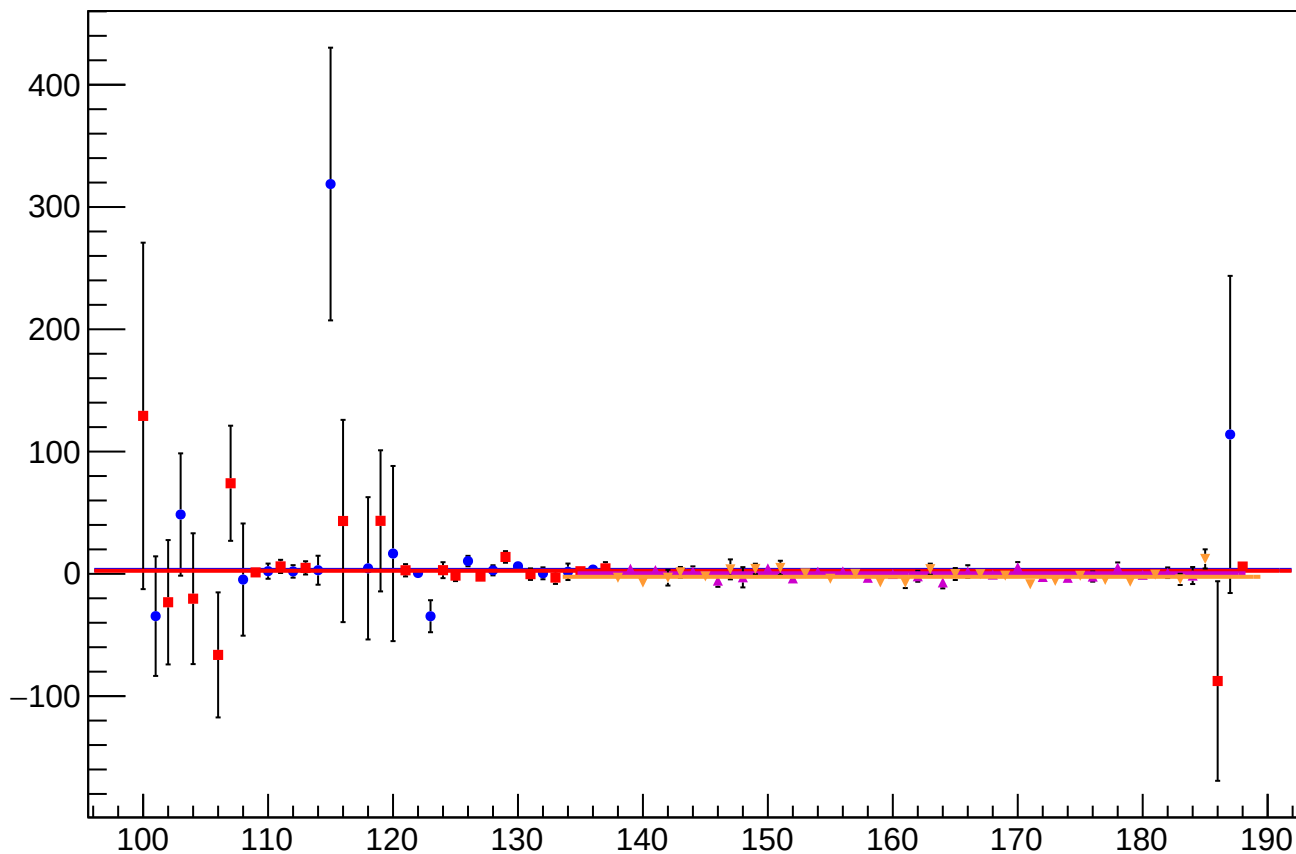
Right: 1553.207 $\pm$ 0.364 χ^2 /NDF: 11174314.0/38

In: 1118.279 $\pm$ 0.172 χ^2 /NDF: 5982864.9/40

Out: 1117.678 $\pm$ 0.166 χ^2 /NDF: 7143987.9/45

All: 1117.968 $\pm$ 0.119 χ^2 /NDF: 13126859.1/8

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.244 $\pm$ 1.328 χ^2/NDF : 23.0/17

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

Right Out: 2.508 $\pm$ 1.175 χ^2/NDF : 18.7/20

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

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

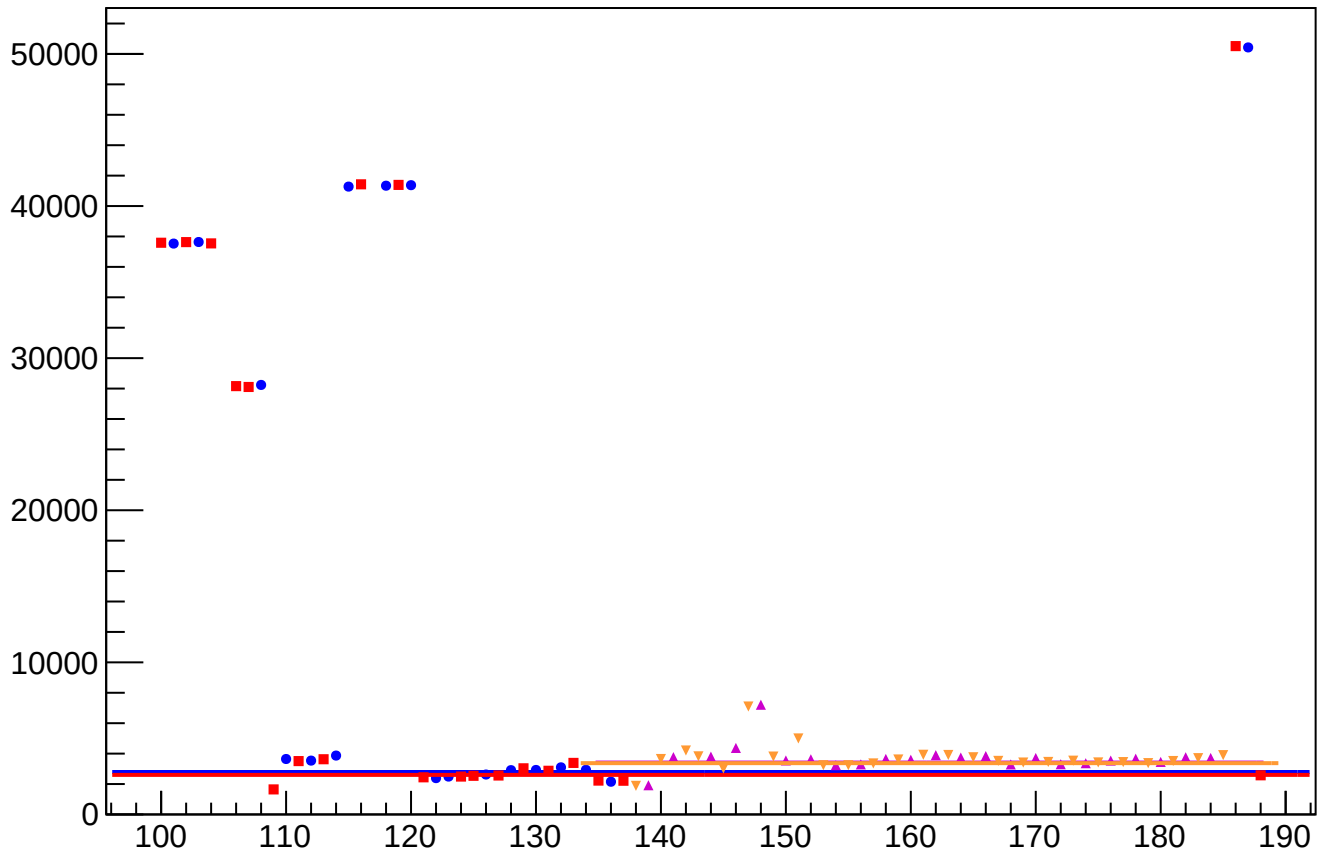
Right: 2.831 $\pm$ 0.880 χ^2/NDF : 41.9/38

In: 1.266 $\pm$ 0.712 χ^2/NDF : 41.5/40

Out: -0.832 $\pm$ 0.667 χ^2/NDF : 51.9/45

All: 0.149 $\pm$ 0.487 χ^2/NDF : 98.1/86

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2791.128+/-0.939 χ^2/NDF : 4846570.5/17

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

Right Out: 2601.790+/-0.831 χ^2/NDF : 5538042.6/20

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

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

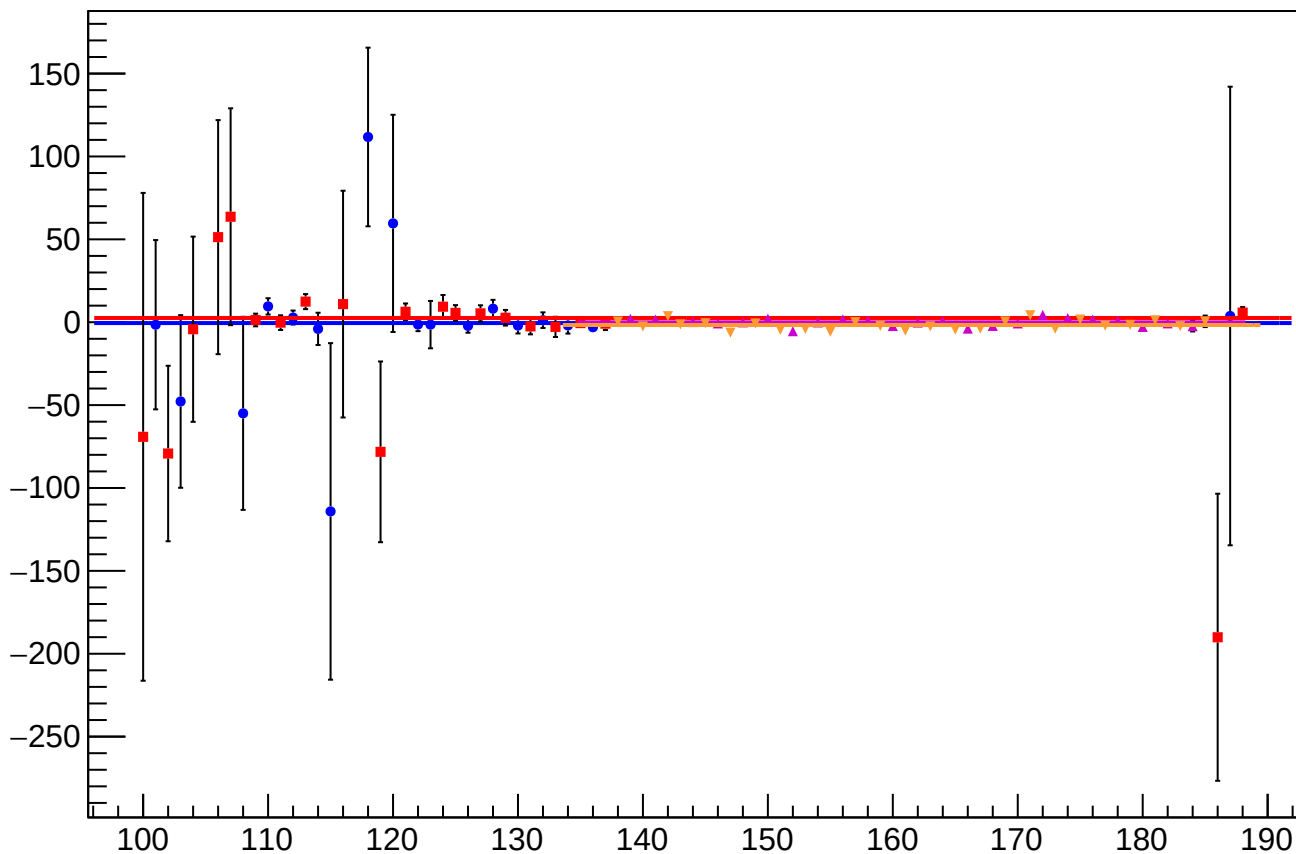
Right: 2684.934+/-0.622 χ^2/NDF : 10407426.6/38

In: 3233.600+/-0.503 χ^2/NDF : 6592756.9/40

Out: 3124.247+/-0.472 χ^2/NDF : 7778785.6/45

All: 3175.404+/-0.344 χ^2/NDF : 14396679.4/8

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.510 ± 1.222 χ^2/NDF : 18.0/17

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

Right Out: 2.560 ± 1.171 χ^2/NDF : 23.6/20

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

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

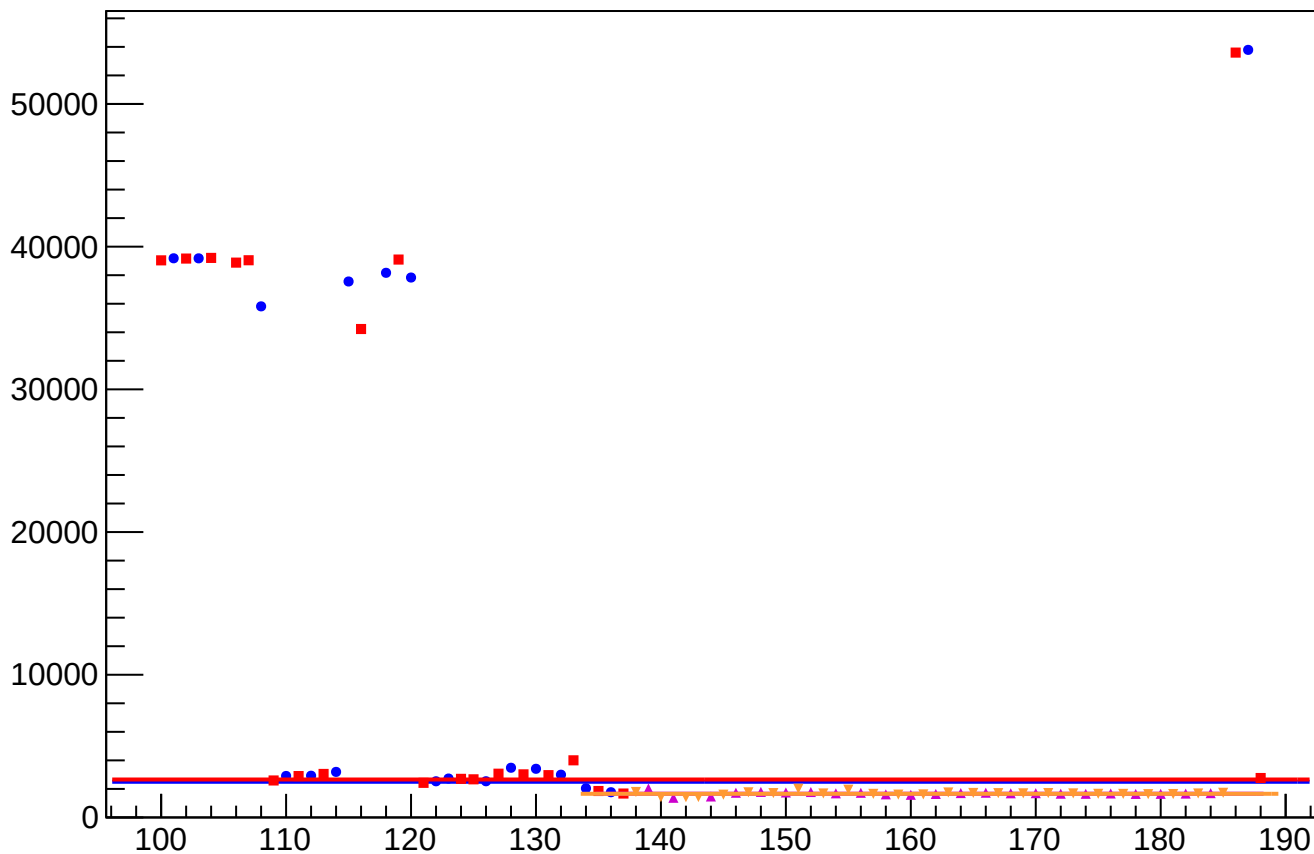
Right: 1.090 ± 0.846 χ^2/NDF : 44.8/38

In: -0.114 ± 0.381 χ^2/NDF : 46.3/40

Out: -1.254 ± 0.368 χ^2/NDF : 81.0/45

All: -0.703 ± 0.265 χ^2/NDF : 131.9/86

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2500.857+/-0.864 χ^2/NDF : 5162752.7/17

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

Right Out: 2659.693+/-0.828 χ^2/NDF : 5556648.6/20

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

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

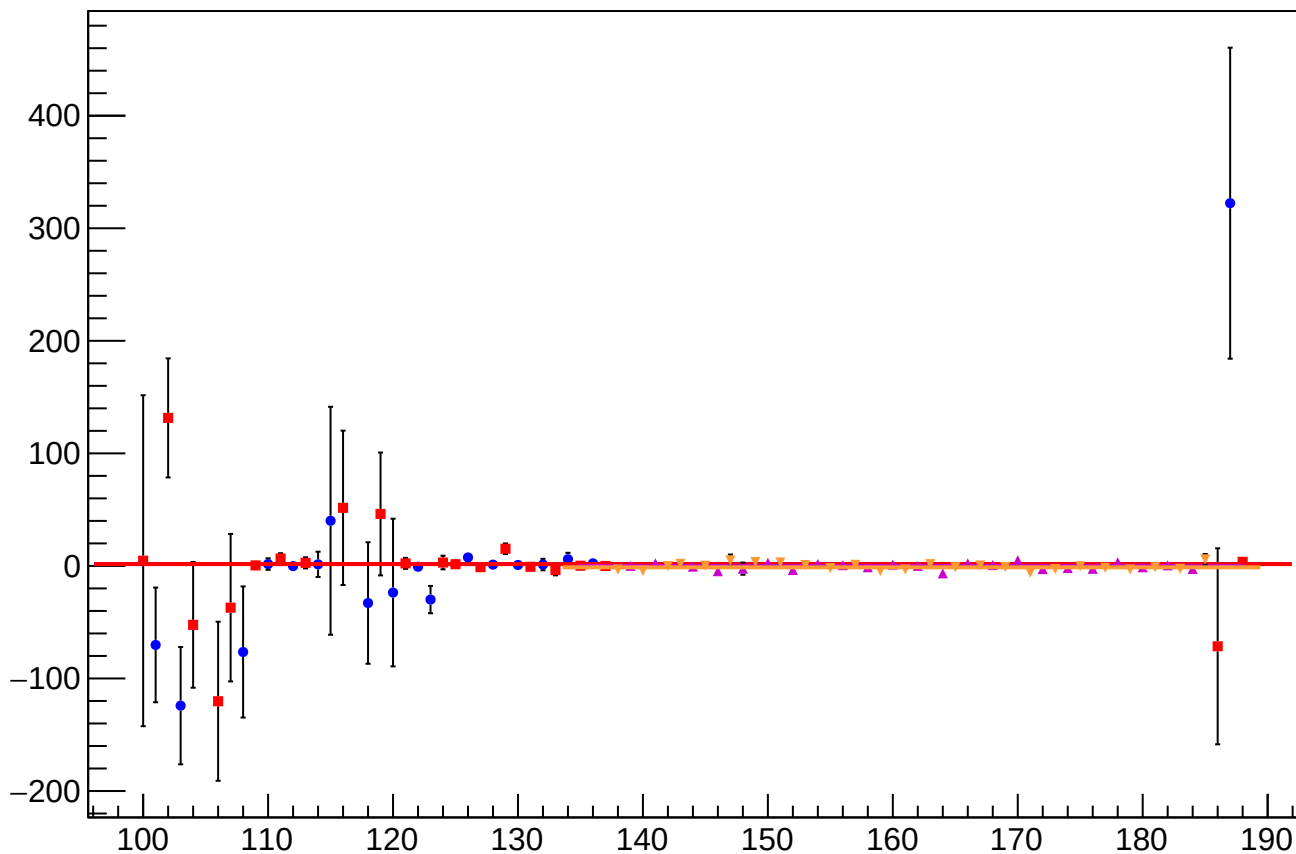
Right: 2583.625+/-0.598 χ^2/NDF : 10737013.4/38

In: 1745.050+/-0.269 χ^2/NDF : 6189349.9/40

Out: 1756.869+/-0.260 χ^2/NDF : 7098677.7/45

All: 1751.159+/-0.187 χ^2/NDF : 13289022.2/86

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.693 $\pm$ 1.146 χ^2 /NDF: 26.1/17

Left Out: -1.251 $\pm$ 0.535 χ^2 /NDF: 21.7/24

Right Out: 1.608 $\pm$ 1.007 χ^2 /NDF: 25.3/20

Left In: -0.098 $\pm$ 0.541 χ^2 /NDF: 19.3/22

Left: -0.681 $\pm$ 0.380 χ^2 /NDF: 43.3/47

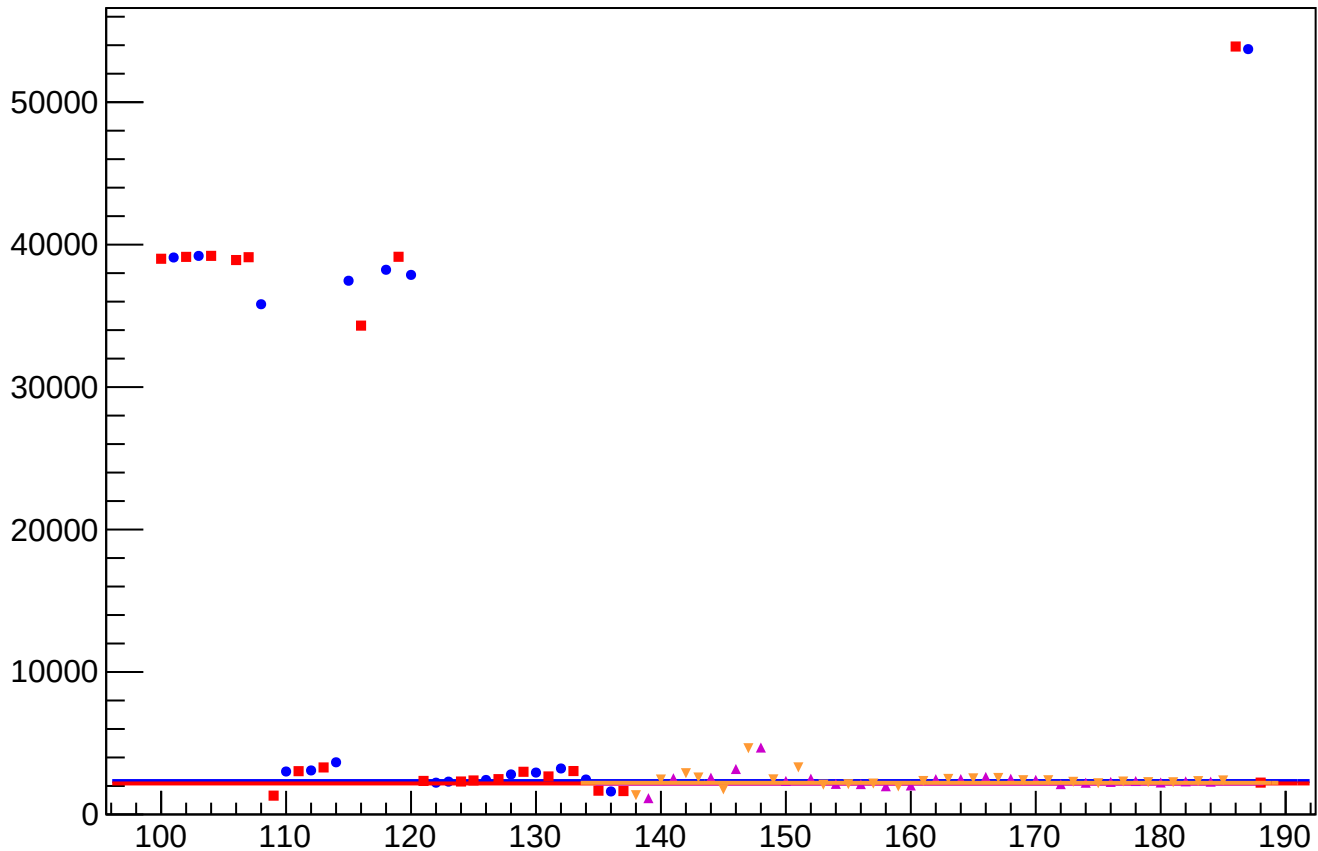
Right: 1.645 $\pm$ 0.757 χ^2 /NDF: 51.4/38

In: 0.229 $\pm$ 0.489 χ^2 /NDF: 47.4/40

Out: -0.621 $\pm$ 0.472 χ^2 /NDF: 53.3/45

All: -0.211 $\pm$ 0.340 χ^2 /NDF: 102.2/86

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2344.756 $\pm$ 0.810 χ^2 /NDF: 5283061.0/17

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

Right Out: 2176.001 $\pm$ 0.712 χ^2 /NDF: 6008650.0/20

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

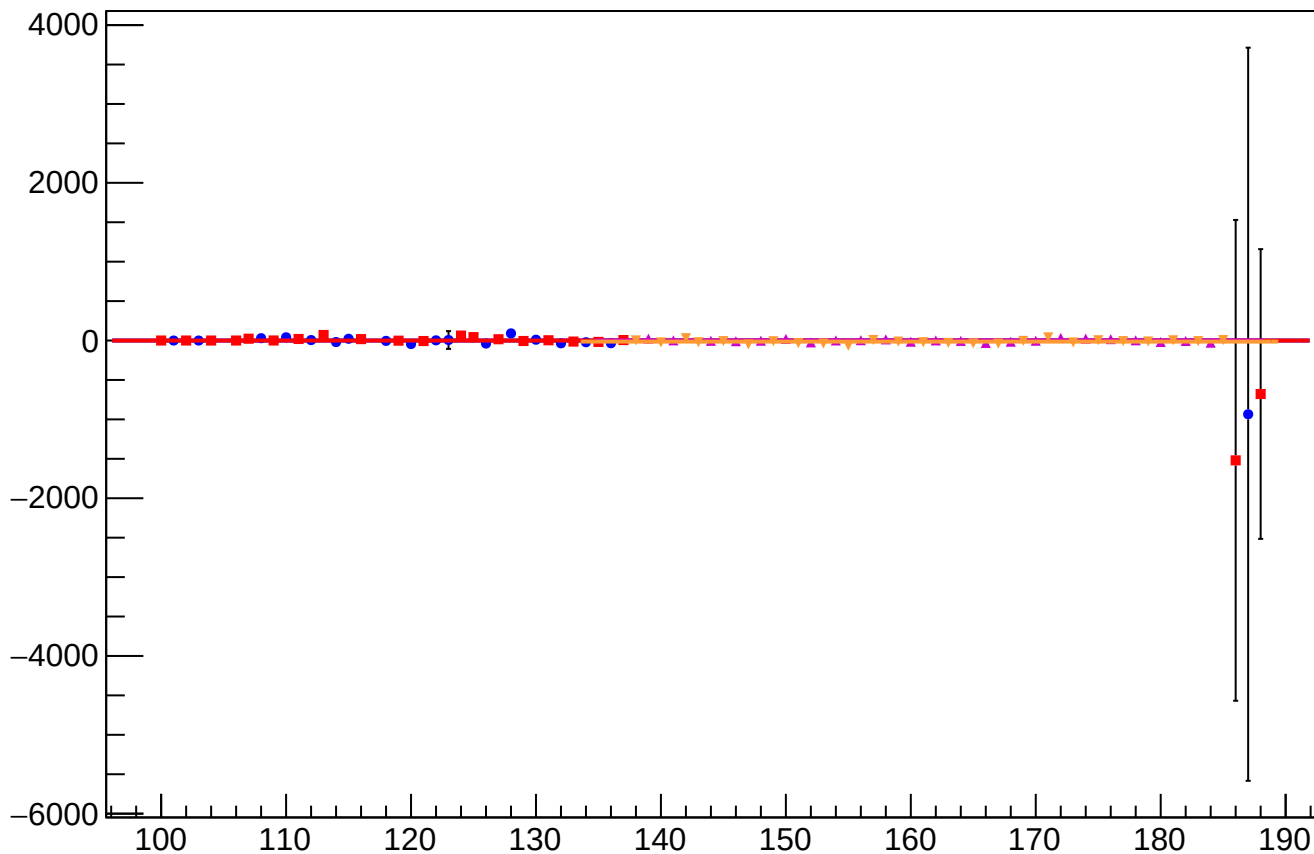
Right: 2249.519 $\pm$ 0.535 χ^2 /NDF: 11316179.0/38

In: 2201.406 $\pm$ 0.346 χ^2 /NDF:7296191.2/40

Out: 2211.937 $\pm$ 0.334 χ^2 /NDF:7434356.7/45

All: 2206.856 $\pm$ 0.240 χ^2 /NDF: 14731027.1/8

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 16.6/17

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

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 15.9/20

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

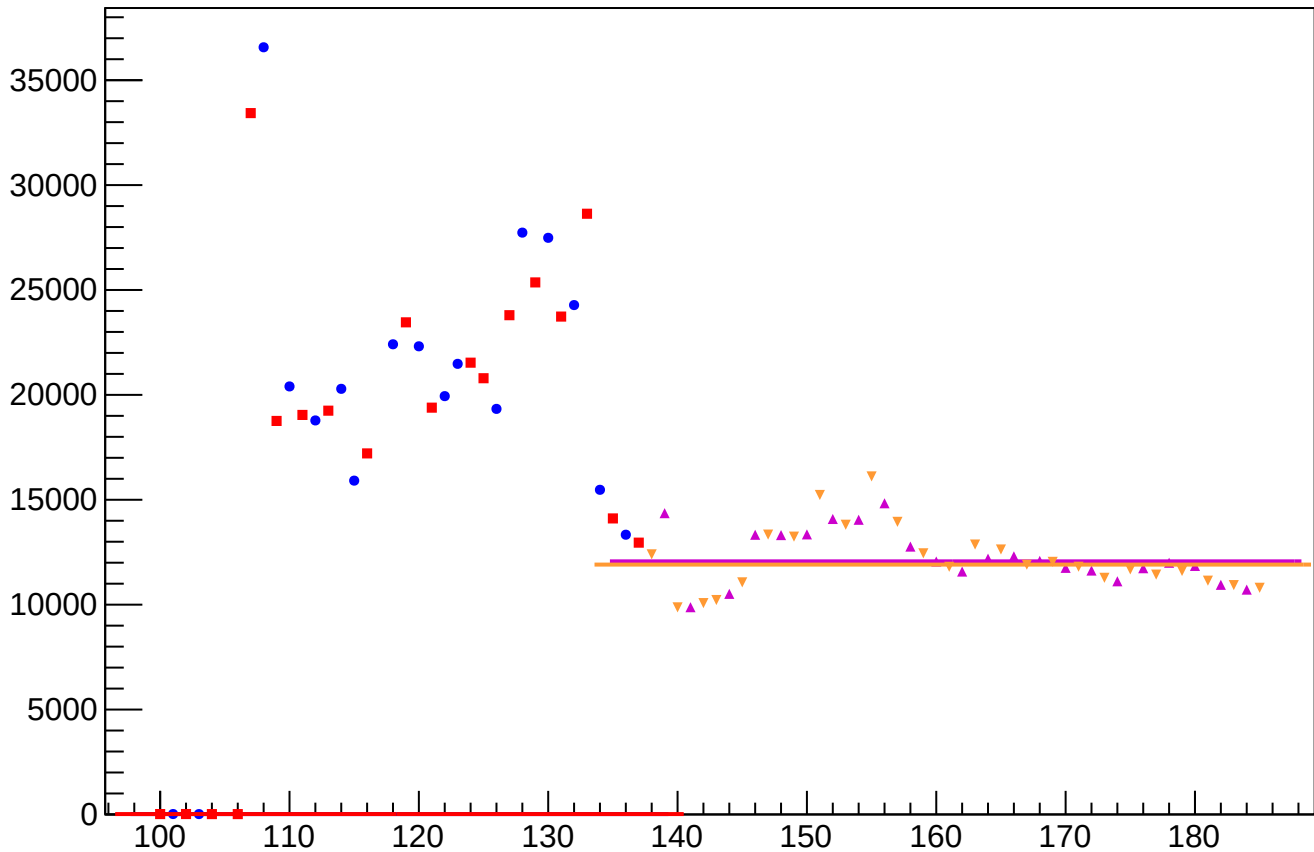
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 33.0/38

In: 0.013 $\pm$ 0.017 χ^2 /NDF: 45.6/40

Out: -0.004 $\pm$ 0.016 χ^2 /NDF: 97.7/45

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 143.9/86

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 ± 0.012 $\chi^2/\text{NDF}: 10941777.3/16$

Left Out: 11910.325 ± 1.980 $\chi^2/\text{NDF}: 476504.3/24$

Right Out: 18.311 ± 0.011 $\chi^2/\text{NDF}: 11063399.8/18$

Left In: 12064.761 ± 2.062 $\chi^2/\text{NDF}: 368452.5/22$

Left: 11984.403 ± 1.428 $\chi^2/\text{NDF}: 847874.4/47$

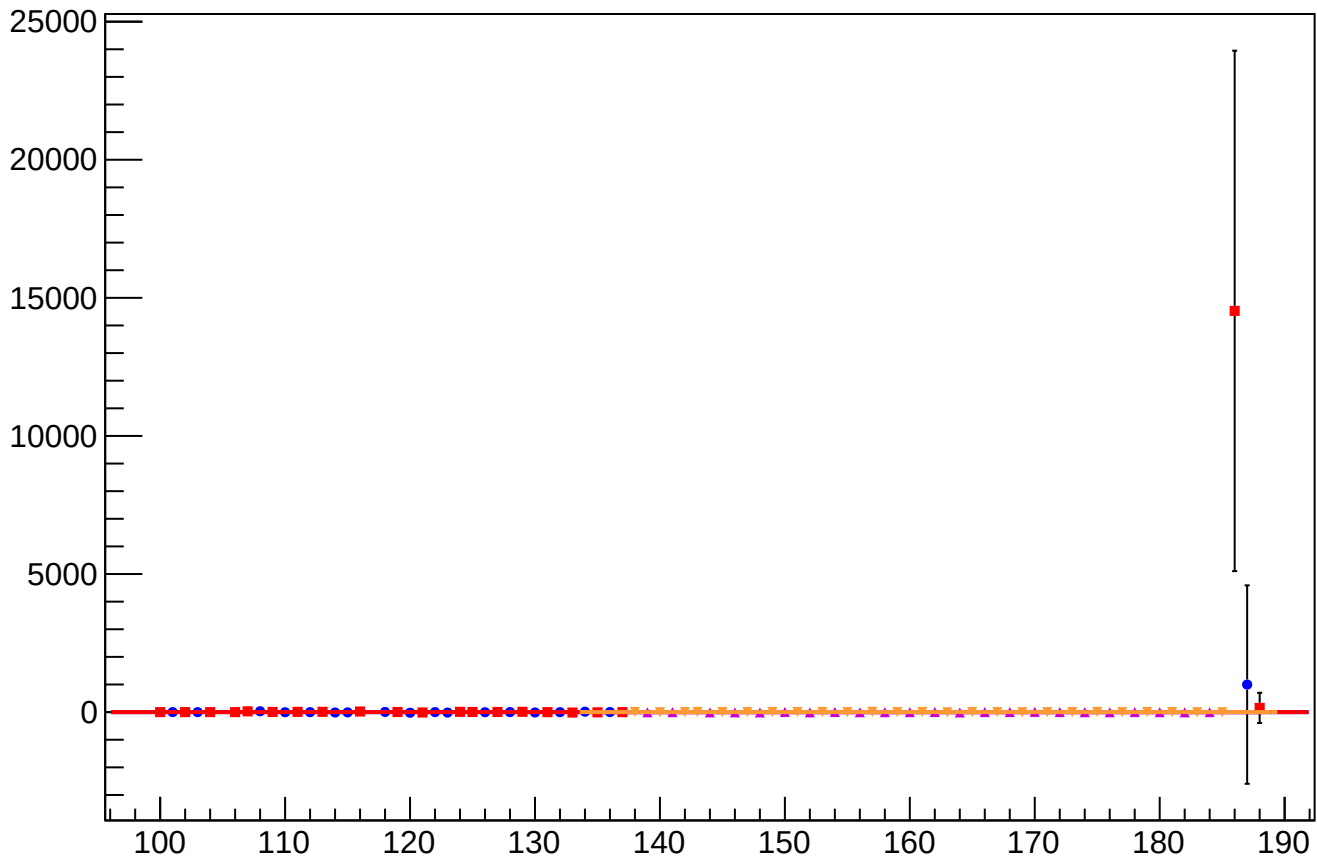
Right: 18.464 ± 0.008 $\chi^2/\text{NDF}: 22005567.3/35$

In: 19.067 ± 0.012 $\chi^2/\text{NDF}: 45424095.9/39$

Out: 18.703 ± 0.011 $\chi^2/\text{NDF}: 47605245.6/43$

All: 18.871 ± 0.008 $\chi^2/\text{NDF}: 93029815.5/83$

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 13.0/17

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 21.2/20

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

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

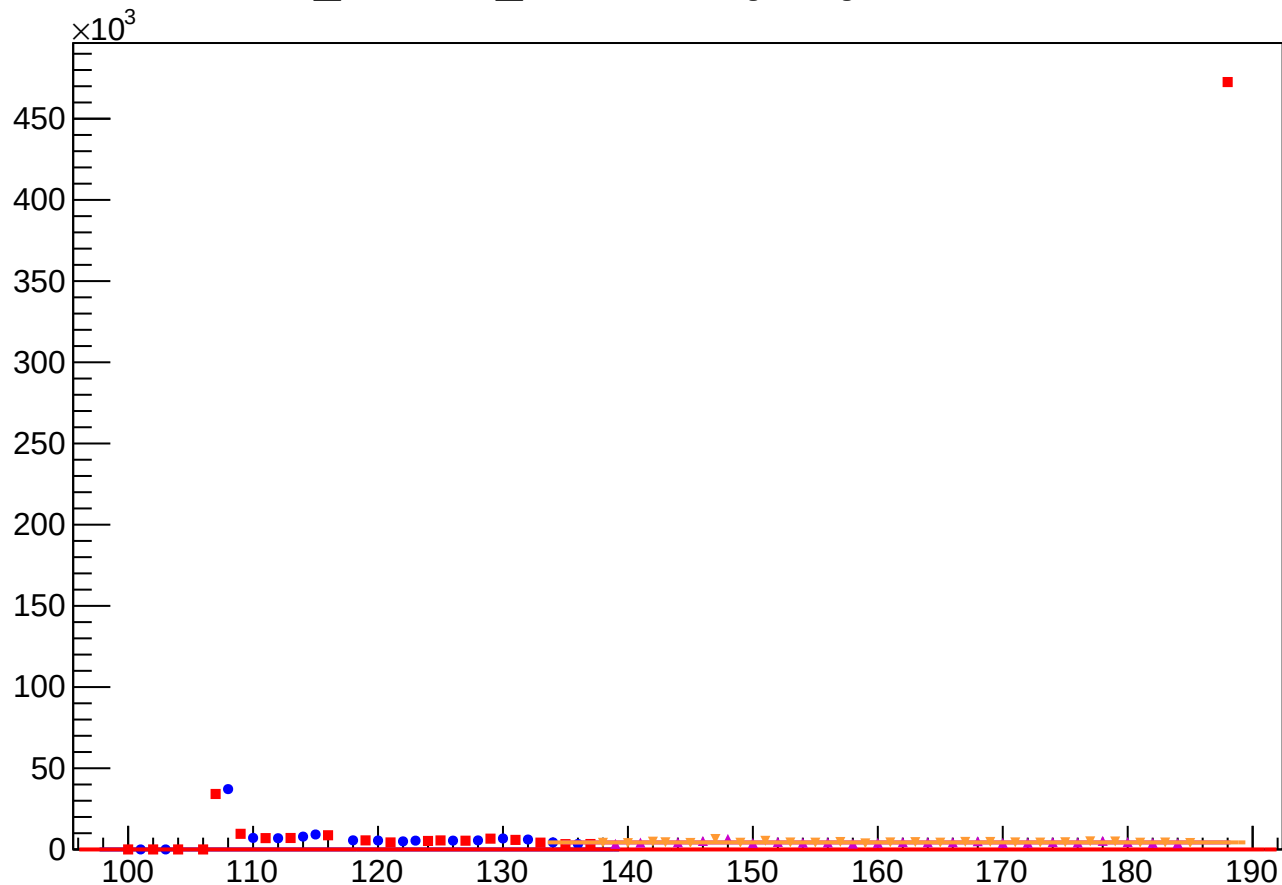
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 35.6/38

In: 0.001 $\pm$ 0.009 χ^2 /NDF:49.4/40

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:42.2/45

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 93.0/86

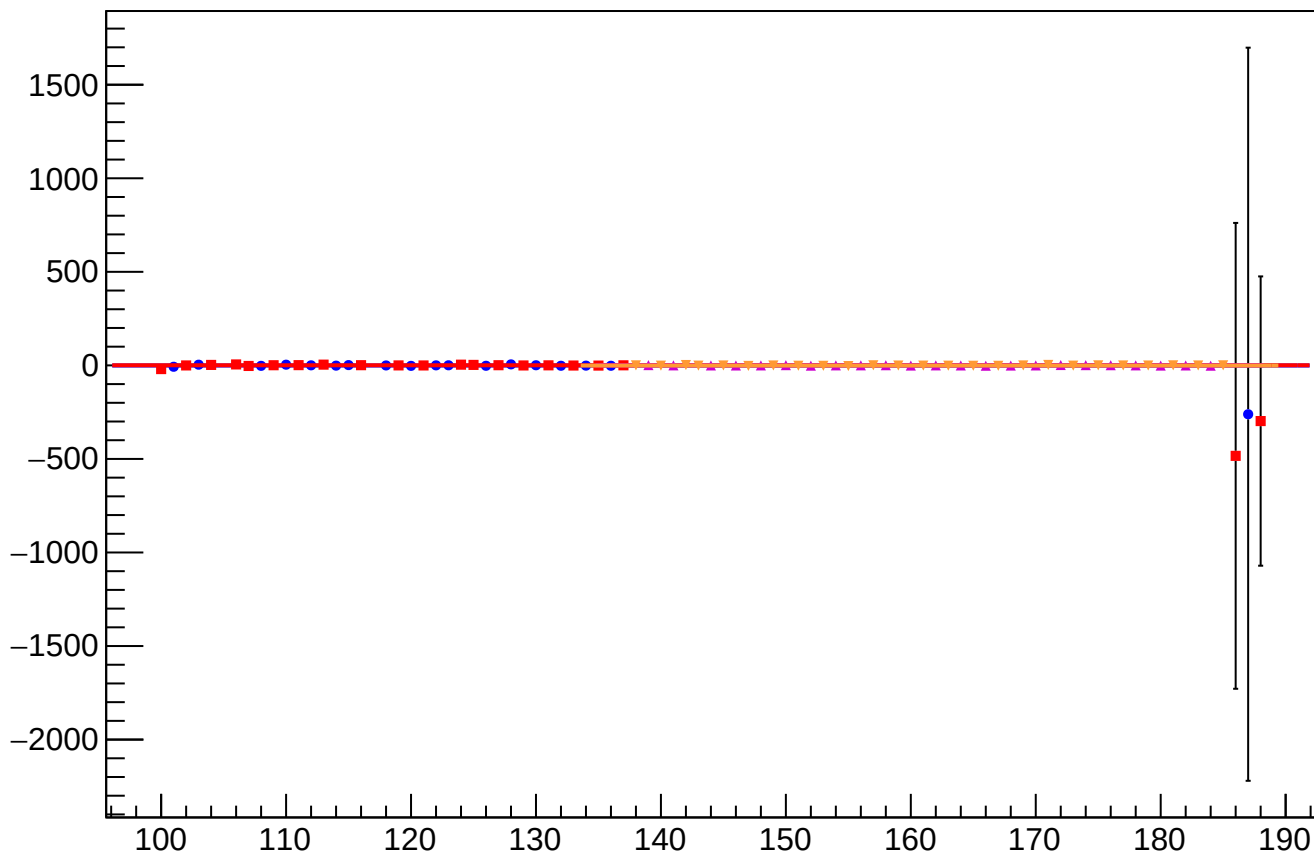
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11067258.7/16
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 12586489.2/19
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 23653837.5/36
 In: 10.271 $\pm$ 0.007 χ^2 /NDF:45399007.8/39
 Out: 10.165 $\pm$ 0.006 χ^2 /NDF:49015662.5/44
 All: 10.215 $\pm$ 0.004 χ^2 /NDF: 94414810.6/84

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.713 ± 0.483 χ^2/NDF : 22.7/17

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

Right Out: 0.638 ± 0.501 χ^2/NDF : 13.4/20

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

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

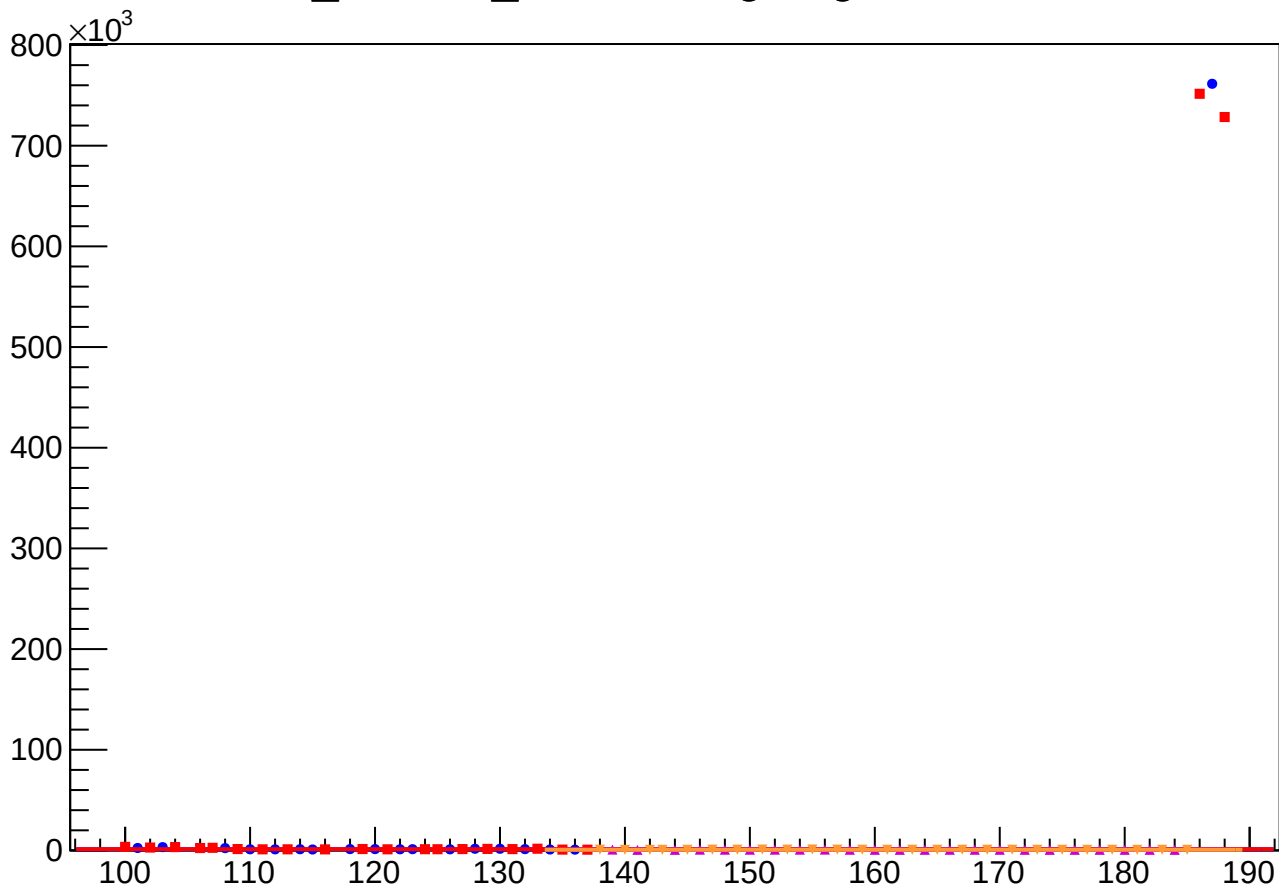
Right: -0.063 ± 0.348 χ^2/NDF : 39.8/38

In: -0.063 ± 0.161 χ^2/NDF : 54.2/40

Out: -0.638 ± 0.156 χ^2/NDF : 79.0/45

All: -0.359 ± 0.112 χ^2/NDF : 139.8/86

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.167 $\pm$ 0.342 χ^2 /NDF: 1881425.6/17

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

Right Out: 1248.337 $\pm$ 0.355 χ^2 /NDF: 4116389.3/20

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

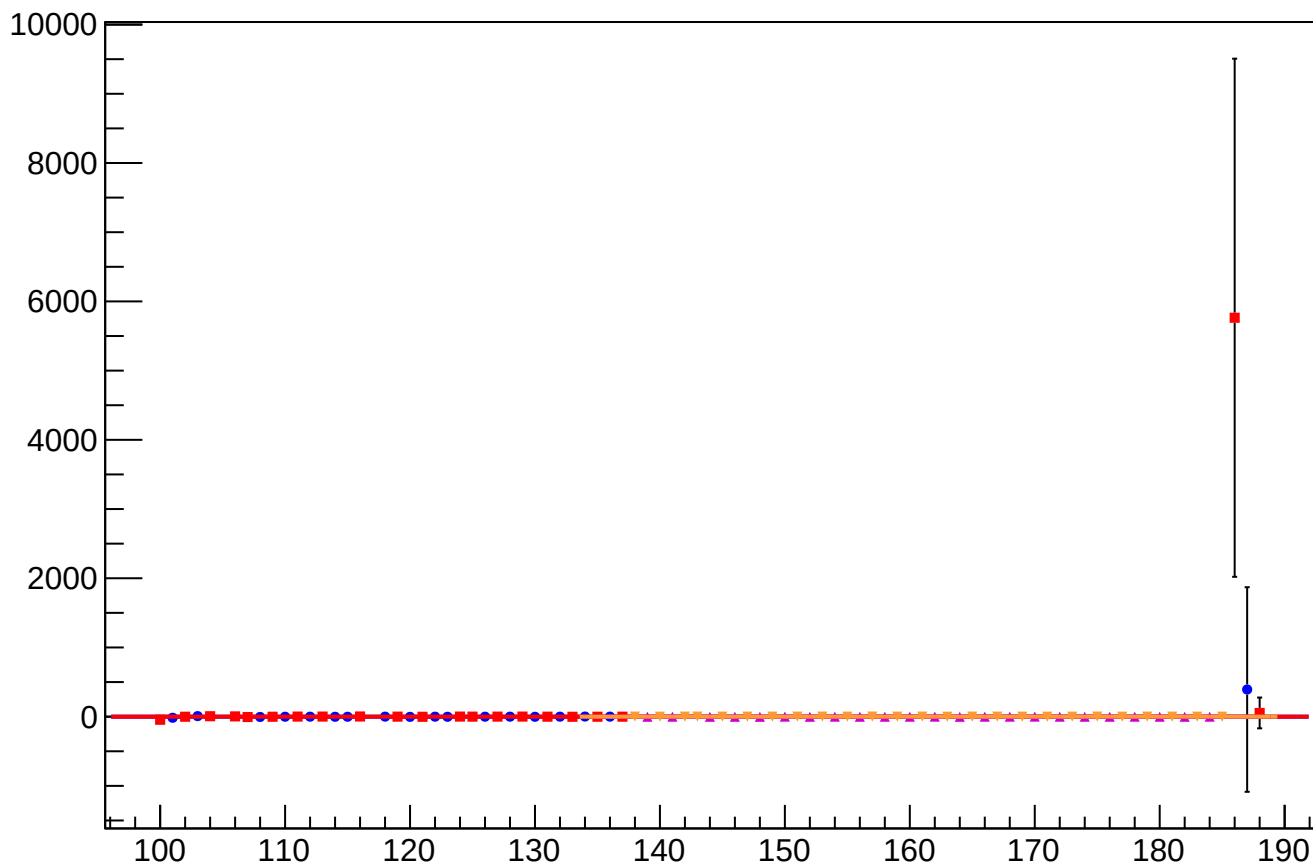
Right: 1206.239 $\pm$ 0.246 χ^2 /NDF: 6024990.7/38

In: 758.087 $\pm$ 0.114 χ^2 /NDF: 3826556.8/40

Out: 754.204 $\pm$ 0.111 χ^2 /NDF: 6660229.0/45

All: 756.089 $\pm$ 0.079 χ^2 /NDF: 10487384.6/86

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 χ^2/NDF : 19.2/17

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 23.0/20

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

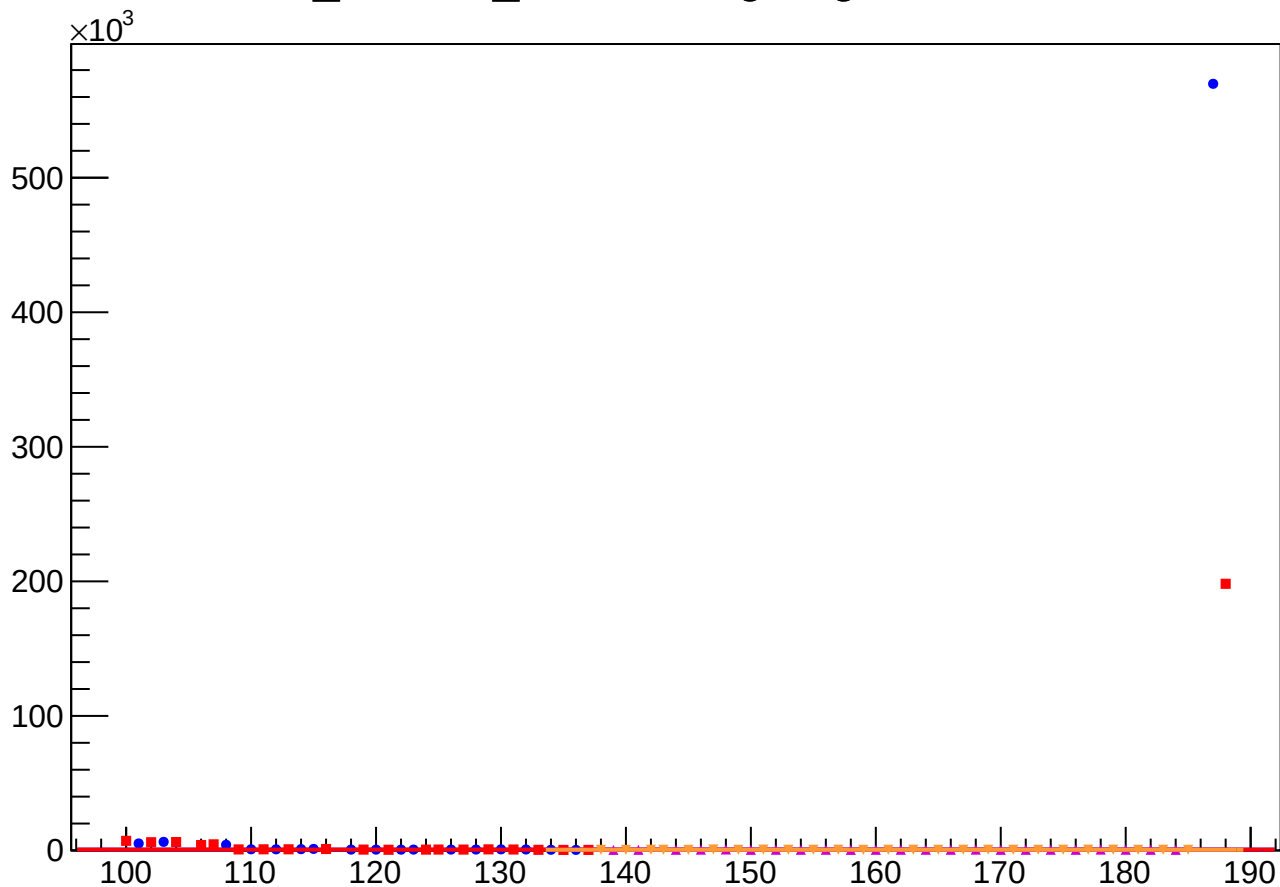
Right: -0.172 ± 0.189 χ^2/NDF : 42.5/38

In: -0.114 ± 0.114 χ^2/NDF : 54.2/40

Out: 0.142 ± 0.111 χ^2/NDF : 44.1/45

All: 0.018 ± 0.080 χ^2/NDF : 100.8/86

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.404 $\pm$ 0.190 χ^2/NDF : 3430909.1/17

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

Right Out: 599.099 $\pm$ 0.187 χ^2/NDF : 5130396.5/19

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

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

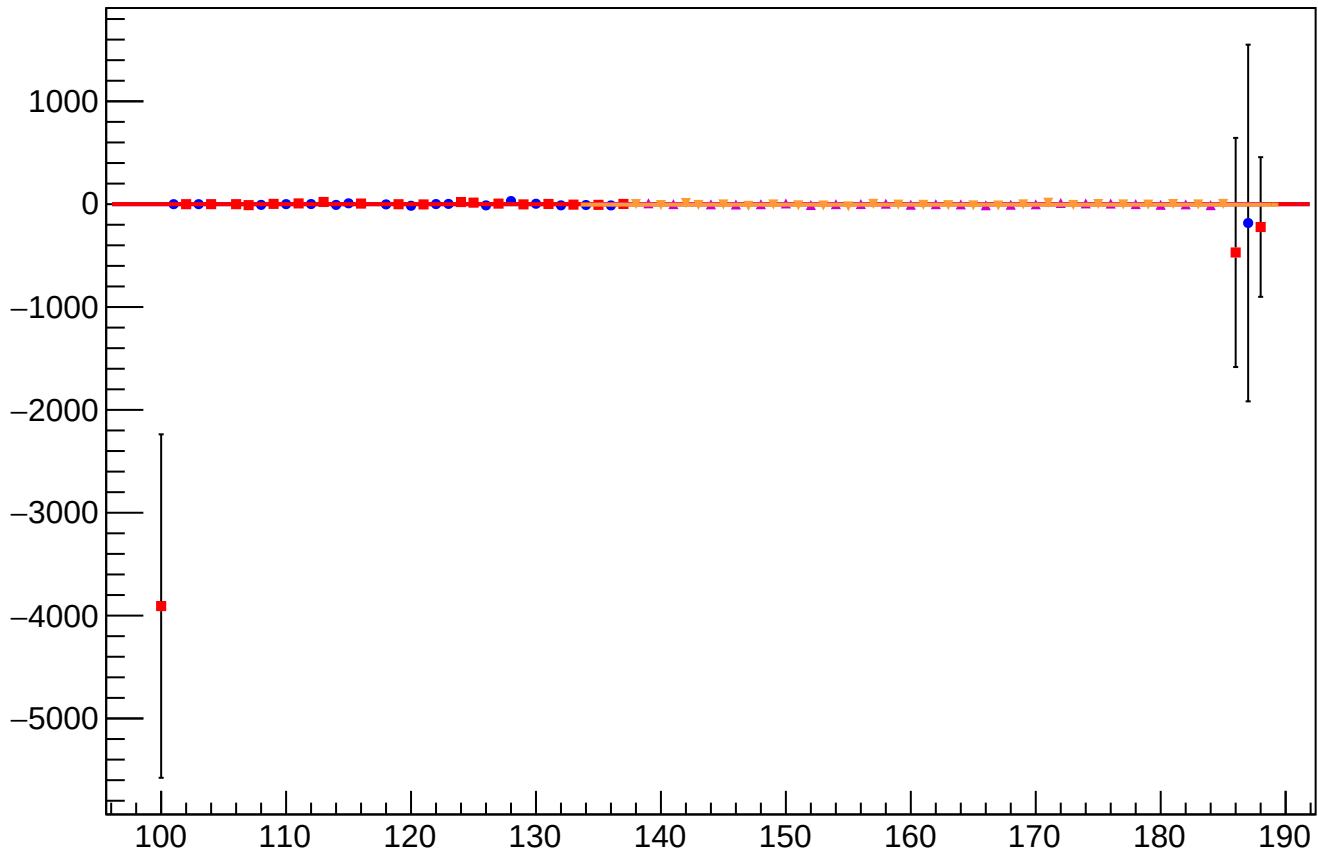
Right: 604.163 $\pm$ 0.133 χ^2/NDF : 8562798.1/37

In: 536.690 $\pm$ 0.081 χ^2/NDF : 4036903.8/40

Out: 535.824 $\pm$ 0.079 χ^2/NDF : 5599954.3/44

All: 536.245 $\pm$ 0.056 χ^2/NDF : 9636917.2/85

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 16.0/17$

Left Out: -4.480 ± 0.957 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.027 ± 0.020 $\chi^2/\text{NDF}: 17.7/20$

Left In: 0.183 ± 0.994 $\chi^2/\text{NDF}: 29.5/22$

Left: -2.236 ± 0.689 $\chi^2/\text{NDF}: 99.3/47$

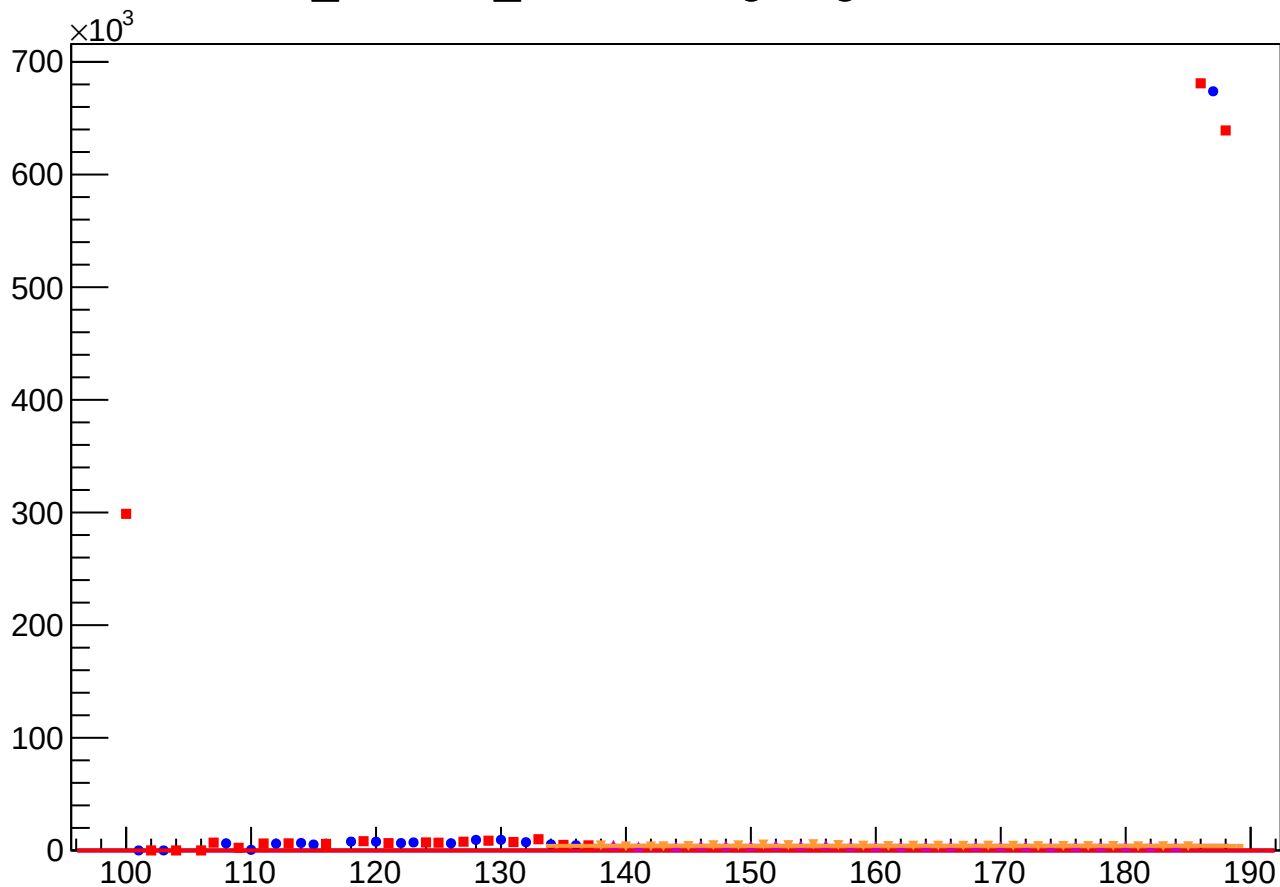
Right: 0.004 ± 0.014 $\chi^2/\text{NDF}: 36.5/38$

In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 45.5/40$

Out: 0.025 ± 0.020 $\chi^2/\text{NDF}: 98.3/45$

All: 0.003 ± 0.014 $\chi^2/\text{NDF}: 146.4/86$

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339+/-0.015 χ^2/NDF : 10759446.0/17

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

Right Out: 17.268+/-0.014 χ^2/NDF : 13285866.4/20

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

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

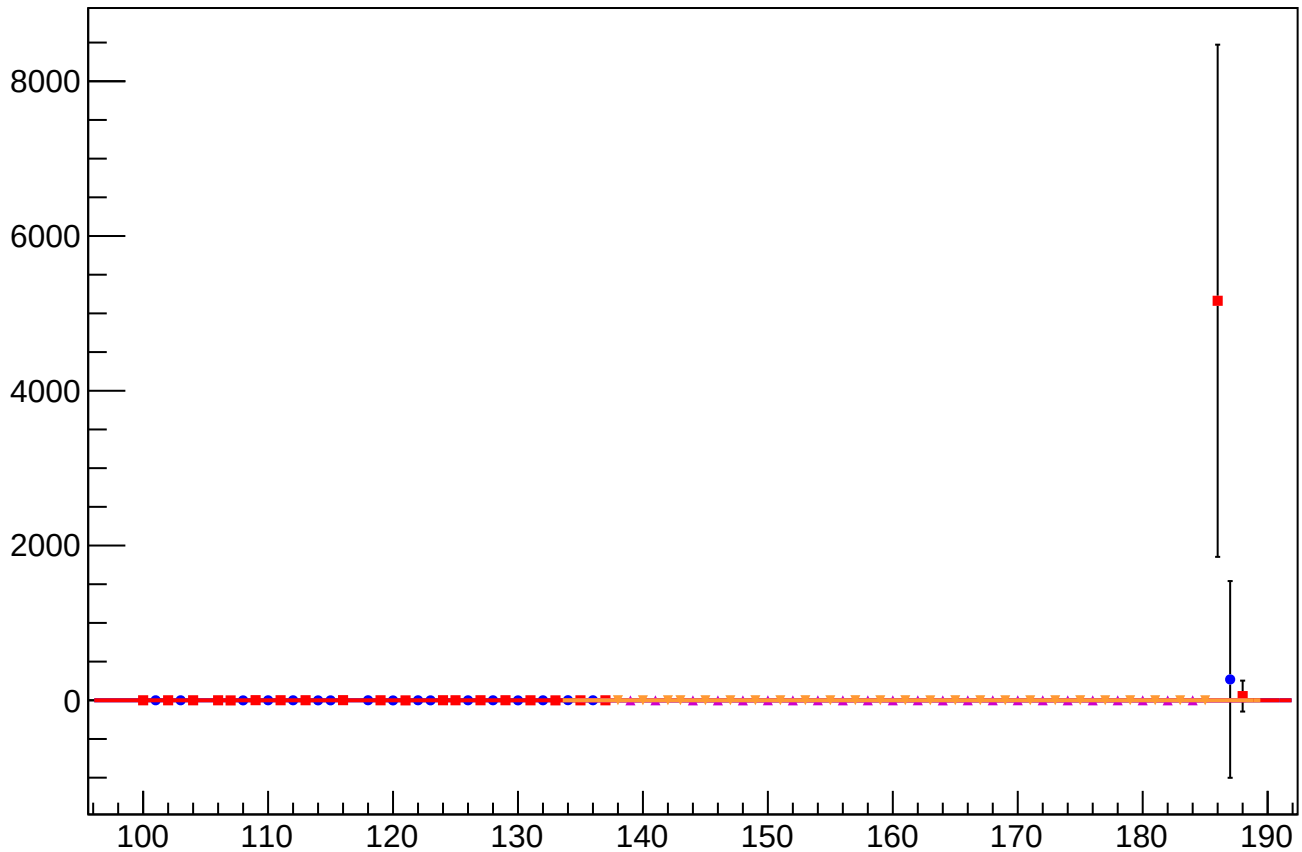
Right: 17.302+/-0.010 χ^2/NDF : 24045324.6/38

In: 19.131+/-0.015 χ^2/NDF : 45061981.1/40

Out: 19.000+/-0.014 χ^2/NDF : 49638911.3/45

All: 19.062+/-0.010 χ^2/NDF : 94700934.3/86

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 13.6/17

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 20.7/20

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

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

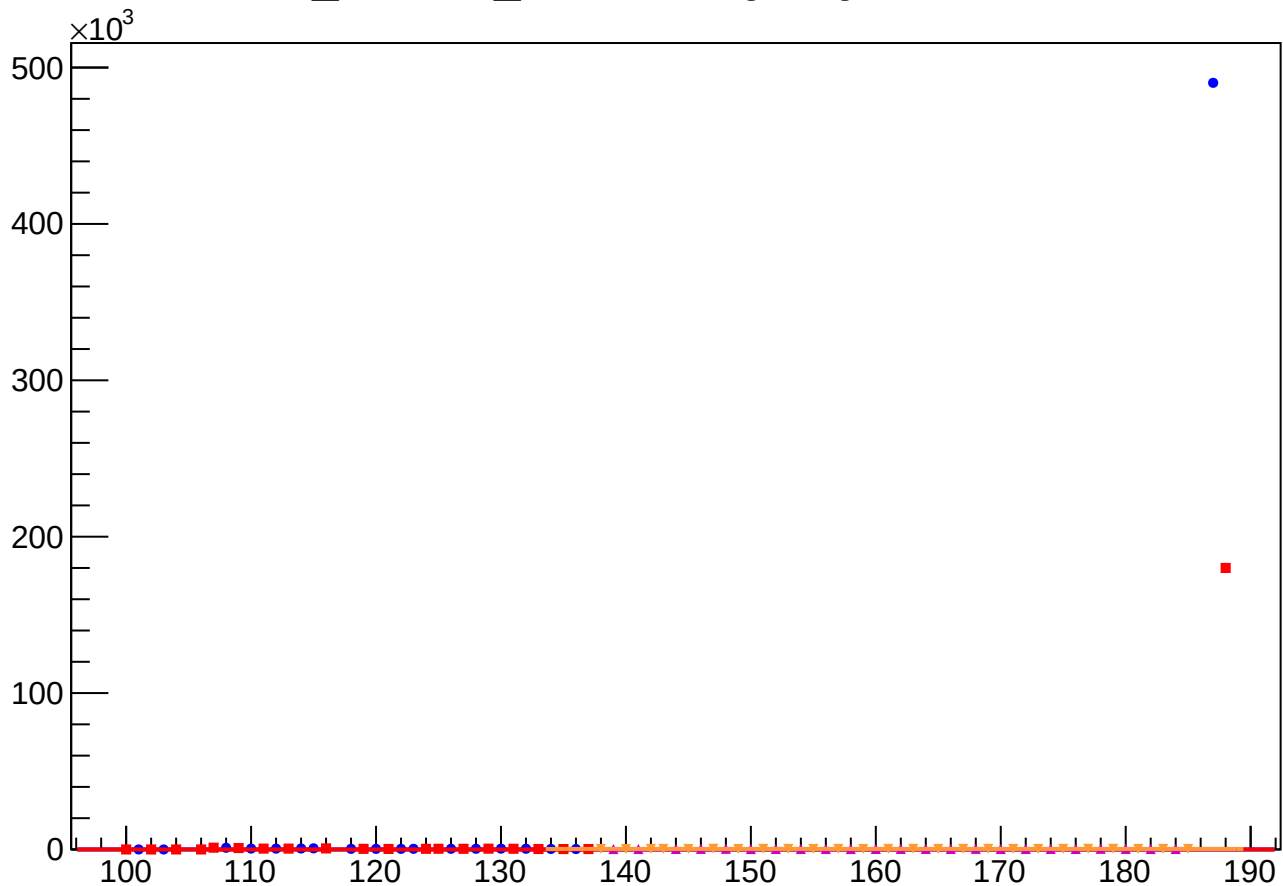
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 34.5/38

In: 0.000 $\pm$ 0.002 χ^2 /NDF:49.3/40

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:41.8/45

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 91.2/86

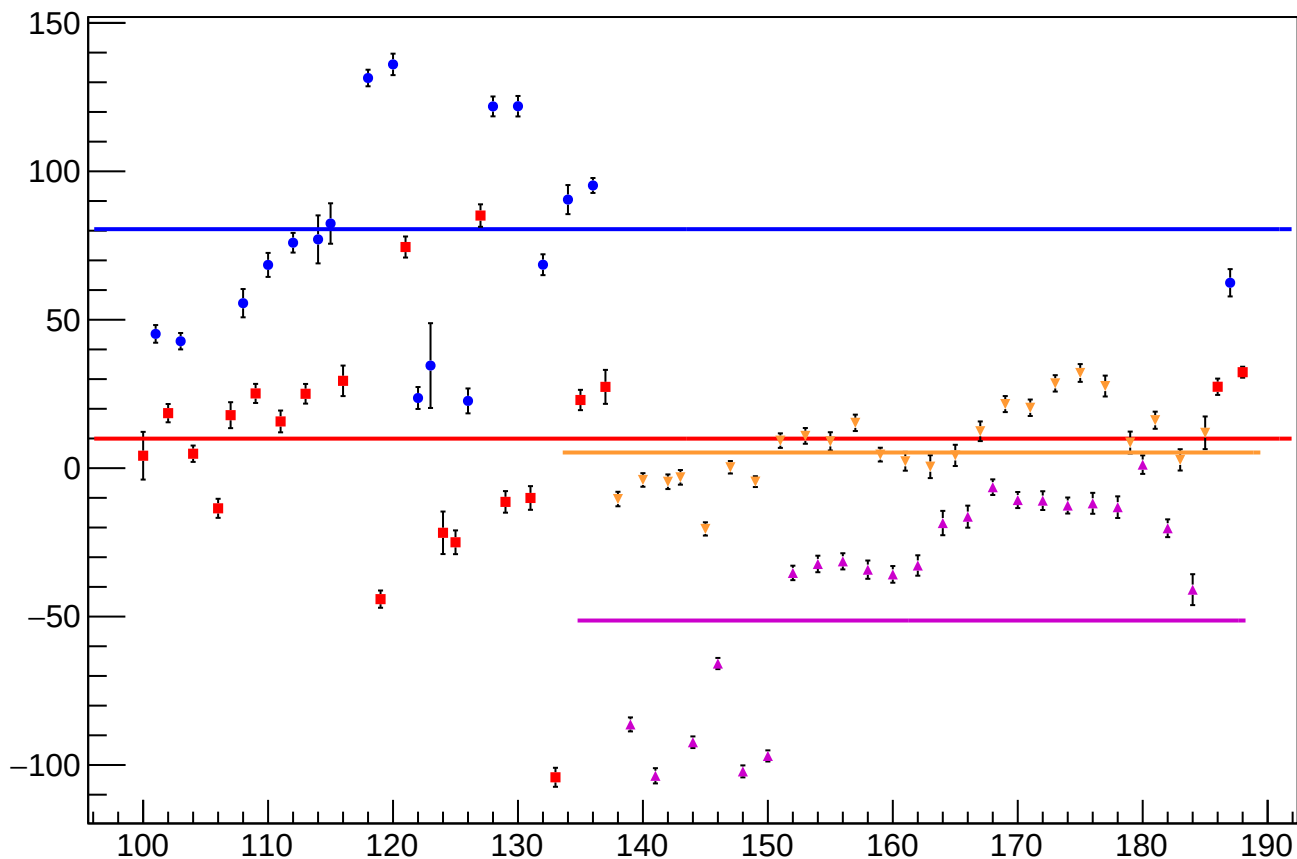
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2/NDF : 11303807.8/17
 Left Out: 325.326 $\pm$ 0.054 χ^2/NDF : 347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2/NDF : 12321752.6/19
 Left In: 325.626 $\pm$ 0.056 χ^2/NDF : 413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2/NDF : 761070.2/47
 Right: 1.714 $\pm$ 0.001 χ^2/NDF : 23625777.6/37
 In: 1.912 $\pm$ 0.001 χ^2/NDF : 45445967.4/40
 Out: 1.936 $\pm$ 0.001 χ^2/NDF : 48529285.0/44
 All: 1.925 $\pm$ 0.001 χ^2/NDF : 93975398.9/85

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 80.516 $\pm$ 0.871 χ^2 /NDF: 1734.2/17

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

Right Out: 9.951 $\pm$ 0.739 χ^2 /NDF: 2836.3/20

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

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

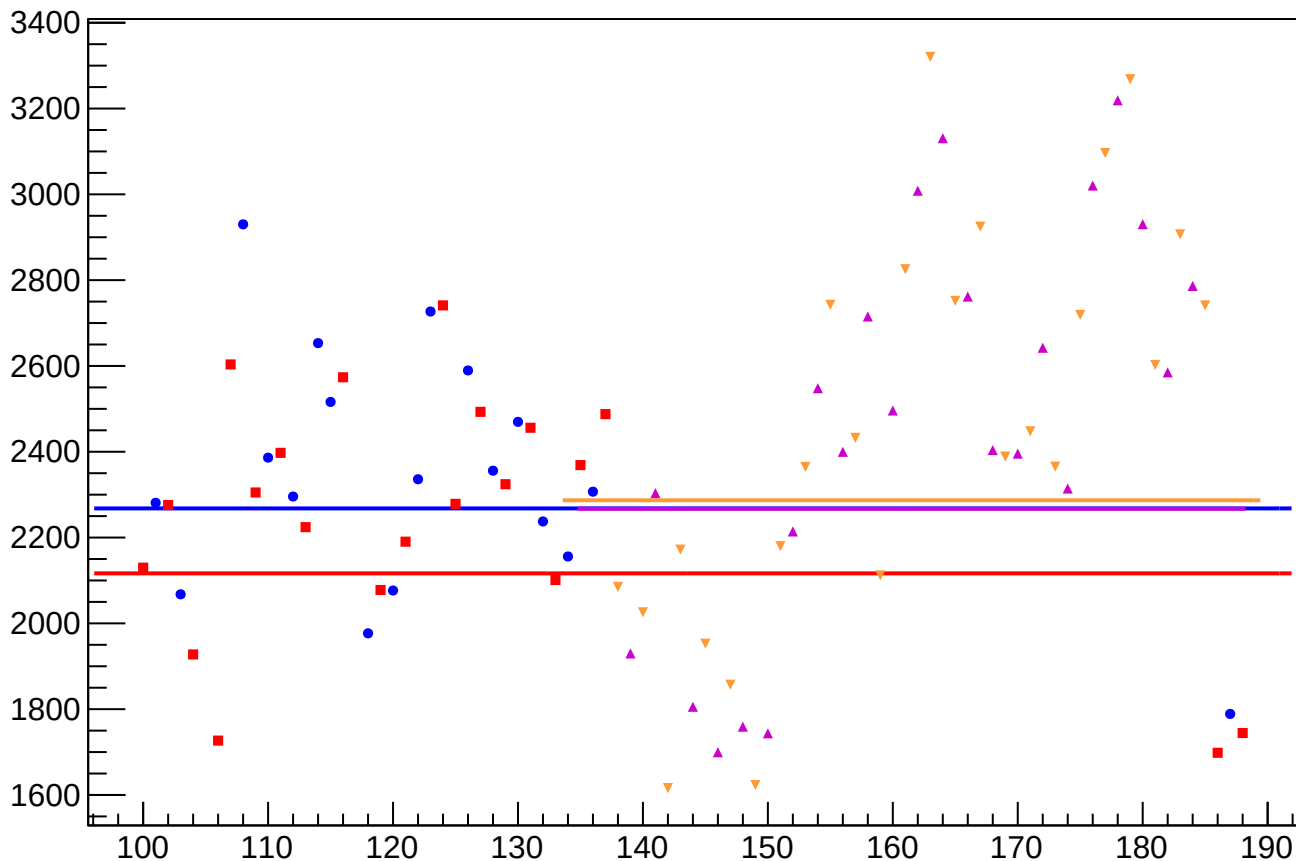
Right: 39.497 $\pm$ 0.564 χ^2 /NDF: 8384.7/38

In: -12.937 $\pm$ 0.470 χ^2 /NDF: 22227.7/40

Out: 6.918 $\pm$ 0.438 χ^2 /NDF: 3418.5/45

All: -2.314 $\pm$ 0.321 χ^2 /NDF: 26600.6/86

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2267.948 $\pm$ 0.616 χ^2 /NDF: 131640.5/17

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

Right Out: 2116.522 $\pm$ 0.523 χ^2 /NDF: 312979.7/20

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

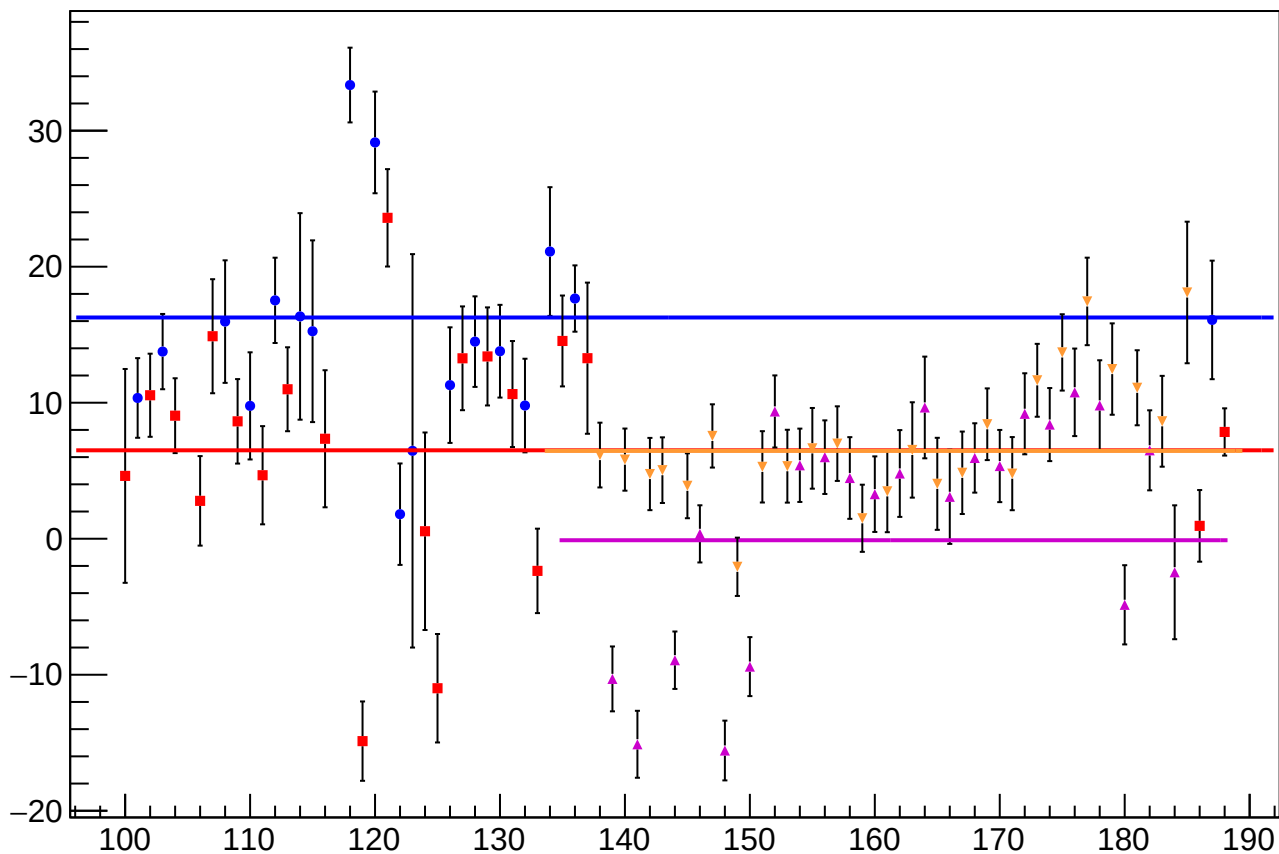
Right: 2179.926 $\pm$ 0.399 χ^2 /NDF: 479747.2/38

In: 2267.345 $\pm$ 0.332 χ^2 /NDF:1445006.3/40

Out: 2227.015 $\pm$ 0.310 χ^2 /NDF:1742336.3/45

All: 2245.769 $\pm$ 0.227 χ^2 /NDF: 3195218.1/86

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.266 $\pm$ 0.856 χ^2/NDF : 81.0/17

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

Right Out: 6.501 $\pm$ 0.722 χ^2/NDF : 135.7/20

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

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

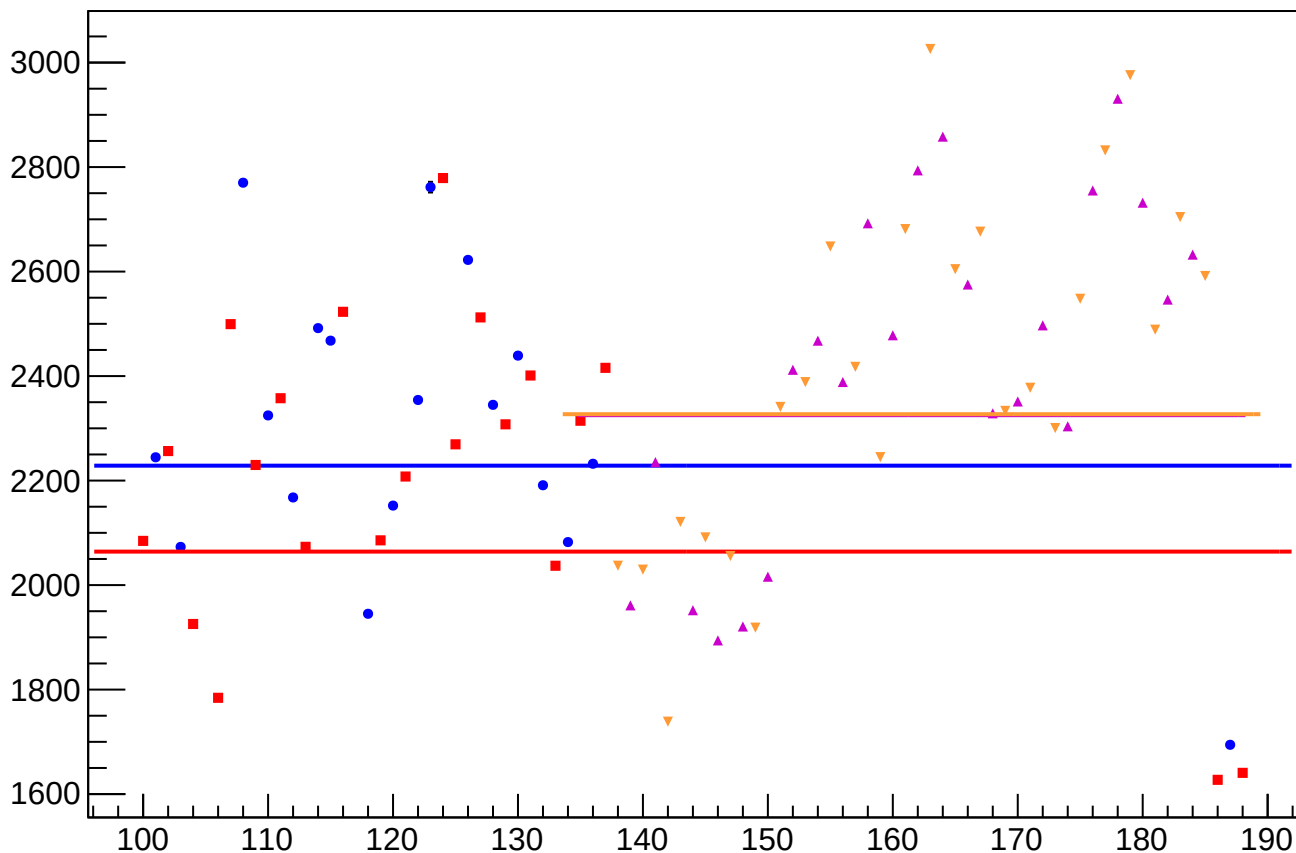
Right: 10.559 $\pm$ 0.552 χ^2/NDF : 292.7/38

In: 4.861 $\pm$ 0.472 χ^2/NDF : 570.4/40

Out: 6.474 $\pm$ 0.436 χ^2/NDF : 194.4/45

All: 5.730 $\pm$ 0.320 χ^2/NDF : 771.1/86

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2228.560 $\pm$ 0.605 χ^2 /NDF: 128761.6/17

Left Out: 2327.044 $\pm$ 0.387 χ^2 /NDF: 646706.7/24

Right Out: 2064.079 $\pm$ 0.510 χ^2 /NDF: 357502.2/20

Left In: 2325.175 $\pm$ 0.400 χ^2 /NDF: 610729.2/22

Left: 2326.139 $\pm$ 0.278 χ^2 /NDF: 1257447.2/47

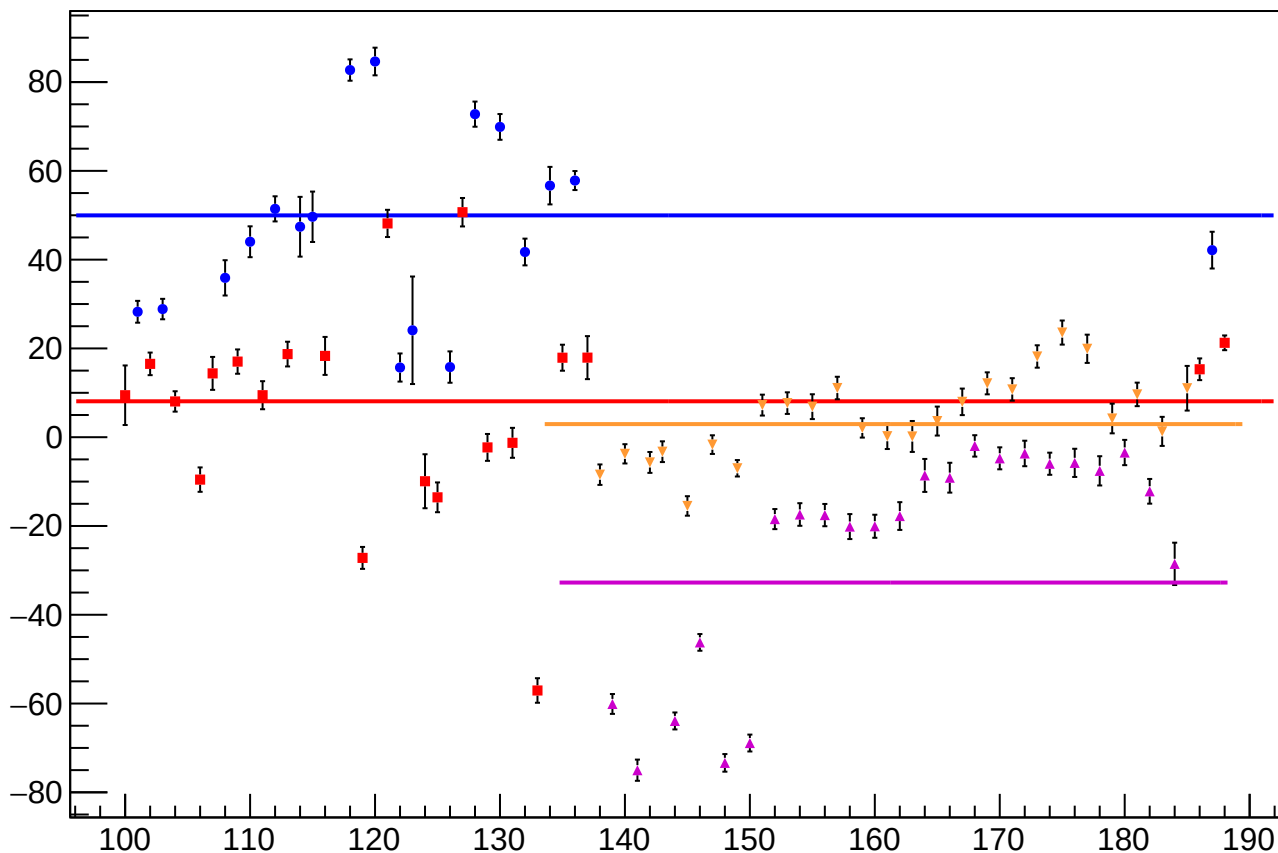
Right: 2132.430 $\pm$ 0.390 χ^2 /NDF: 529425.6/38

In: 2295.843 $\pm$ 0.333 χ^2 /NDF: 757236.2/40

Out: 2230.984 $\pm$ 0.308 χ^2 /NDF: 1172712.4/45

All: 2260.889 $\pm$ 0.226 χ^2 /NDF: 1950333.2/86

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 49.971 ± 0.740 χ^2/NDF : 841.2/17

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

Right Out: 8.091 ± 0.634 χ^2/NDF : 1349.3/20

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

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

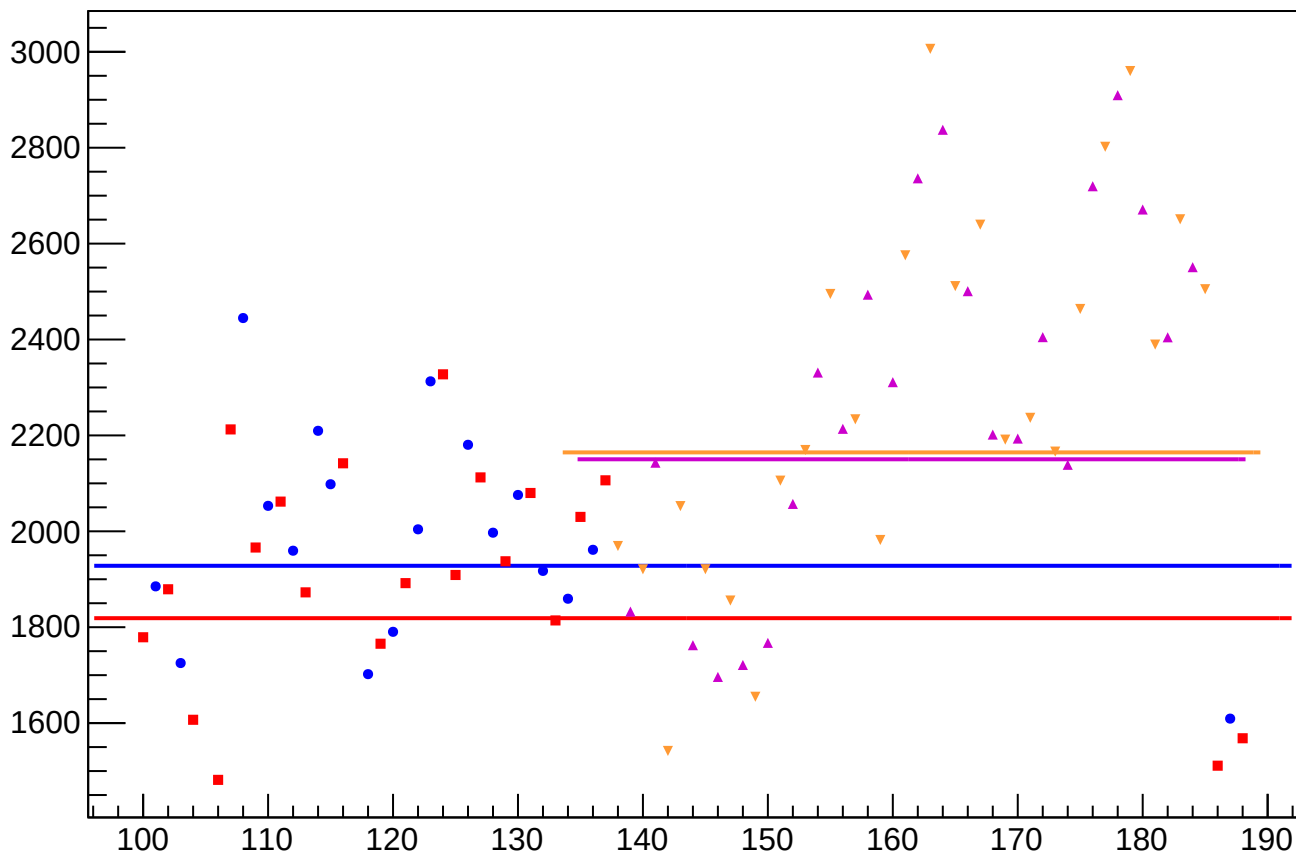
Right: 25.820 ± 0.481 χ^2/NDF : 4037.9/38

In: -4.970 ± 0.429 χ^2/NDF : 11773.9/40

Out: 4.980 ± 0.398 χ^2/NDF : 1726.8/45

All: 0.372 ± 0.292 χ^2/NDF : 13789.8/86

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1928.090 ± 0.523 $\chi^2/\text{NDF}: 112257.0/17$

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

Right Out: 1818.824 ± 0.448 $\chi^2/\text{NDF}: 244513.3/20$

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

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

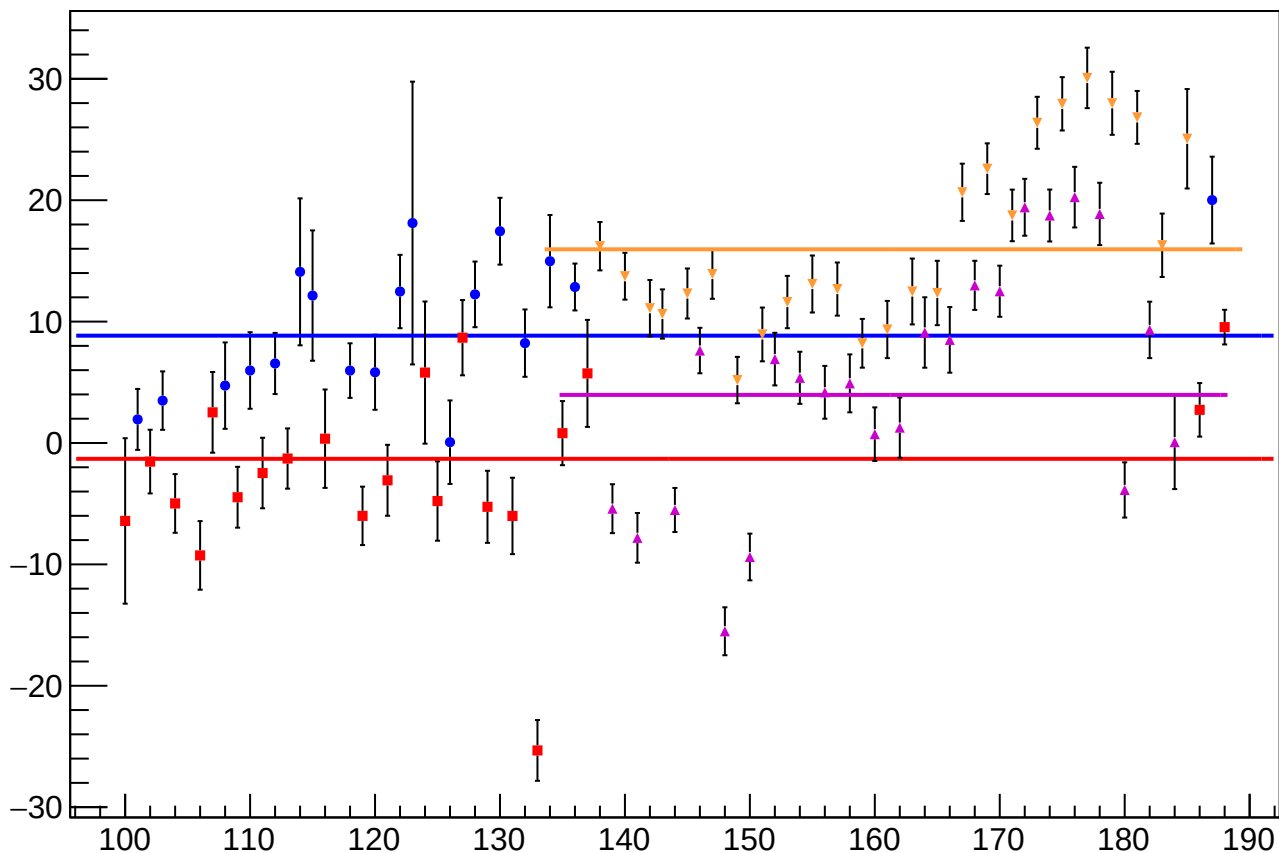
Right: 1865.079 ± 0.340 $\chi^2/\text{NDF}: 381919.8/38$

In: 2075.610 ± 0.303 $\chi^2/\text{NDF}: 1143788.6/40$

Out: 2028.110 ± 0.282 $\chi^2/\text{NDF}: 1570190.6/45$

All: 2050.111 ± 0.206 $\chi^2/\text{NDF}: 2727154.6/86$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.841 ± 0.699 χ^2/NDF : 55.9/17

Left Out: 15.956 ± 0.447 χ^2/NDF : 245.2/24

Right Out: -1.304 ± 0.594 χ^2/NDF : 191.7/20

Left In: 3.960 ± 0.463 χ^2/NDF : 464.9/22

Left: 10.161 ± 0.322 χ^2/NDF : 1057.3/47

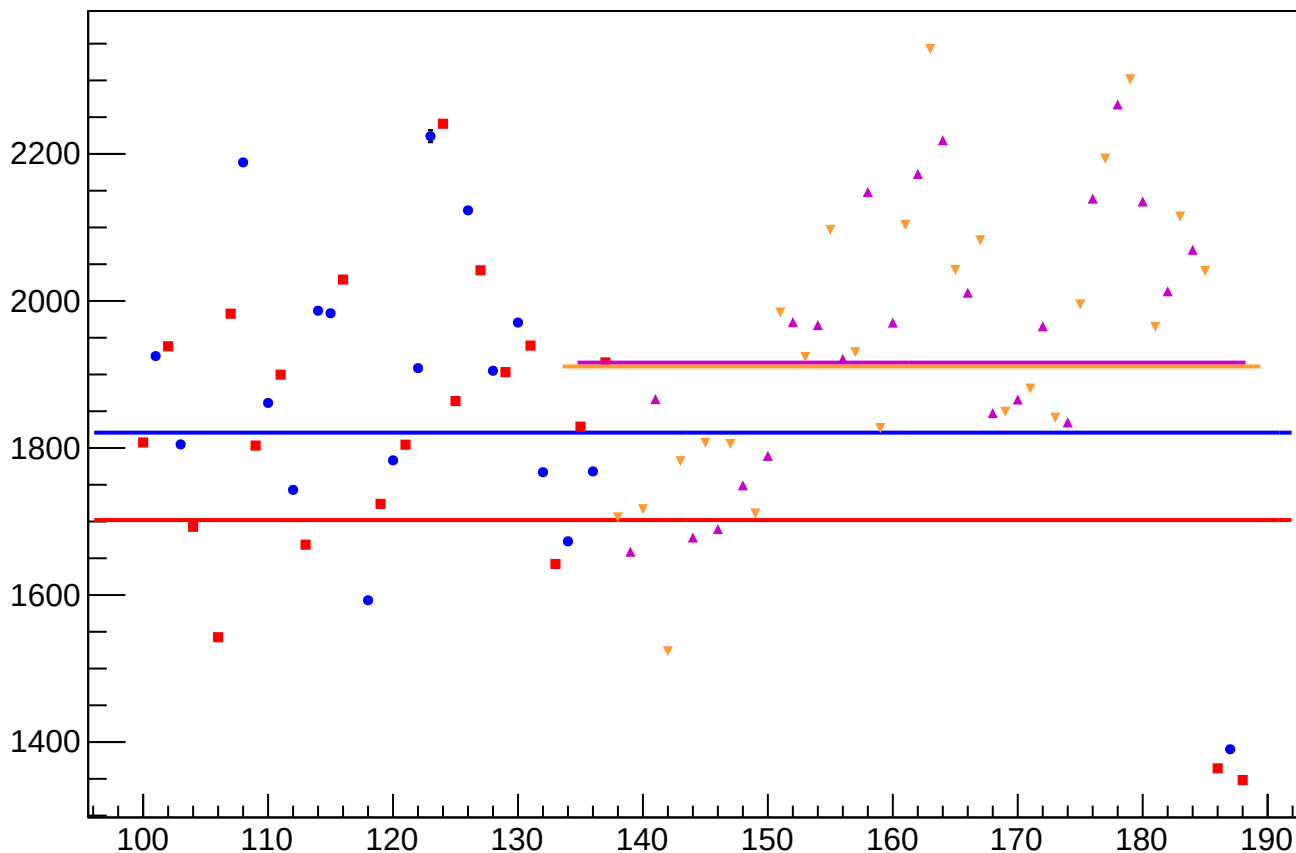
Right: 2.950 ± 0.452 χ^2/NDF : 370.0/38

In: 5.449 ± 0.386 χ^2/NDF : 554.7/40

Out: 9.705 ± 0.357 χ^2/NDF : 975.9/45

All: 7.740 ± 0.262 χ^2/NDF : 1596.1/86

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1820.909 ± 0.494 $\chi^2/\text{NDF}: 113004.4/17$

Left Out: 1910.859 ± 0.316 $\chi^2/\text{NDF}: 328970.6/24$

Right Out: 1701.984 ± 0.420 $\chi^2/\text{NDF}: 312560.0/20$

Left In: 1916.159 ± 0.327 $\chi^2/\text{NDF}: 274285.3/22$

Left: 1913.419 ± 0.227 $\chi^2/\text{NDF}: 603391.5/47$

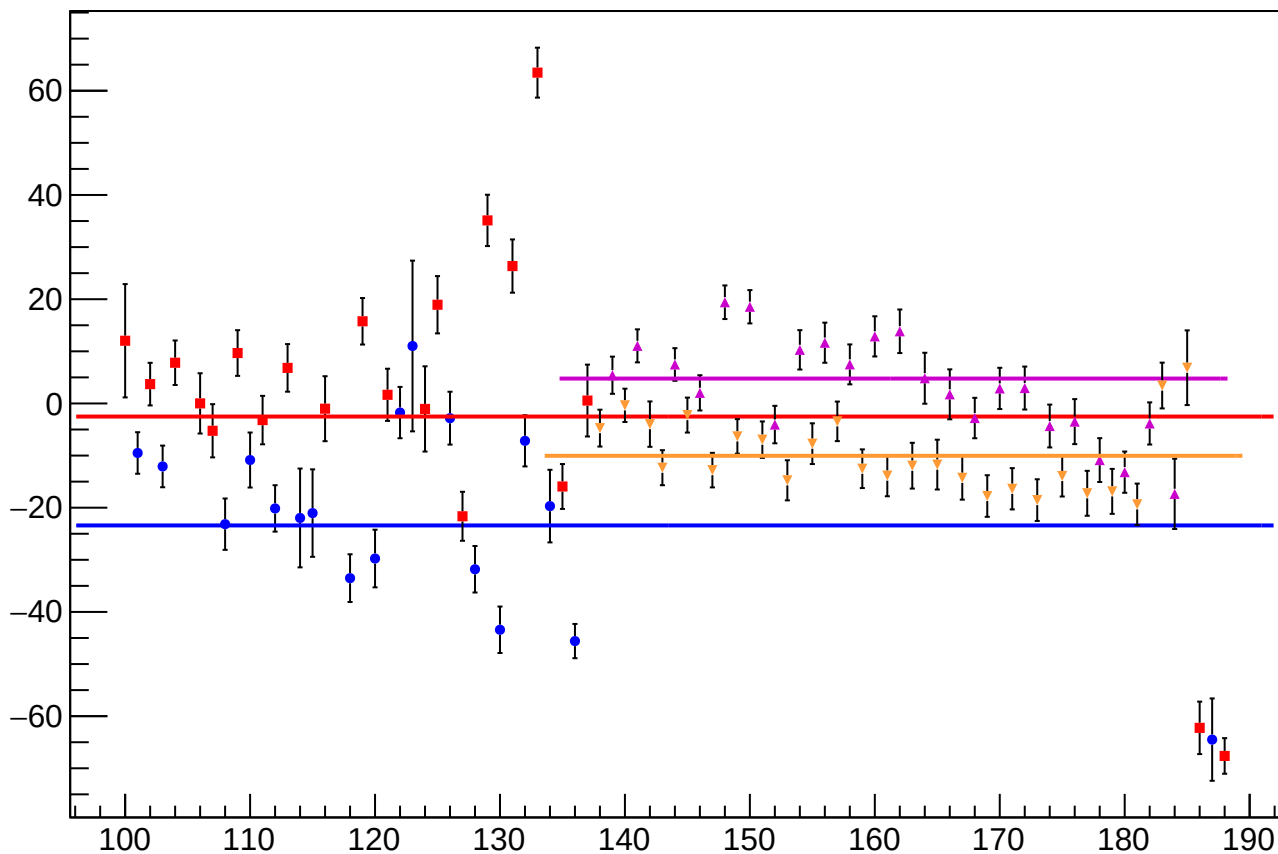
Right: 1751.855 ± 0.320 $\chi^2/\text{NDF}: 459210.0/38$

In: 1887.110 ± 0.273 $\chi^2/\text{NDF}: 413124.0/40$

Out: 1835.214 ± 0.253 $\chi^2/\text{NDF}: 799397.9/45$

All: 1859.172 ± 0.185 $\chi^2/\text{NDF}: 1231998.4/86$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -23.406 $\pm$ 1.183 χ^2/NDF : 180.5/17

Left Out: -10.042 $\pm$ 0.776 χ^2/NDF : 67.1/24

Right Out: -2.512 $\pm$ 1.072 χ^2/NDF : 866.5/20

Left In: 4.774 $\pm$ 0.800 χ^2/NDF : 128.5/22

Left: -2.861 $\pm$ 0.557 χ^2/NDF : 372.2/47

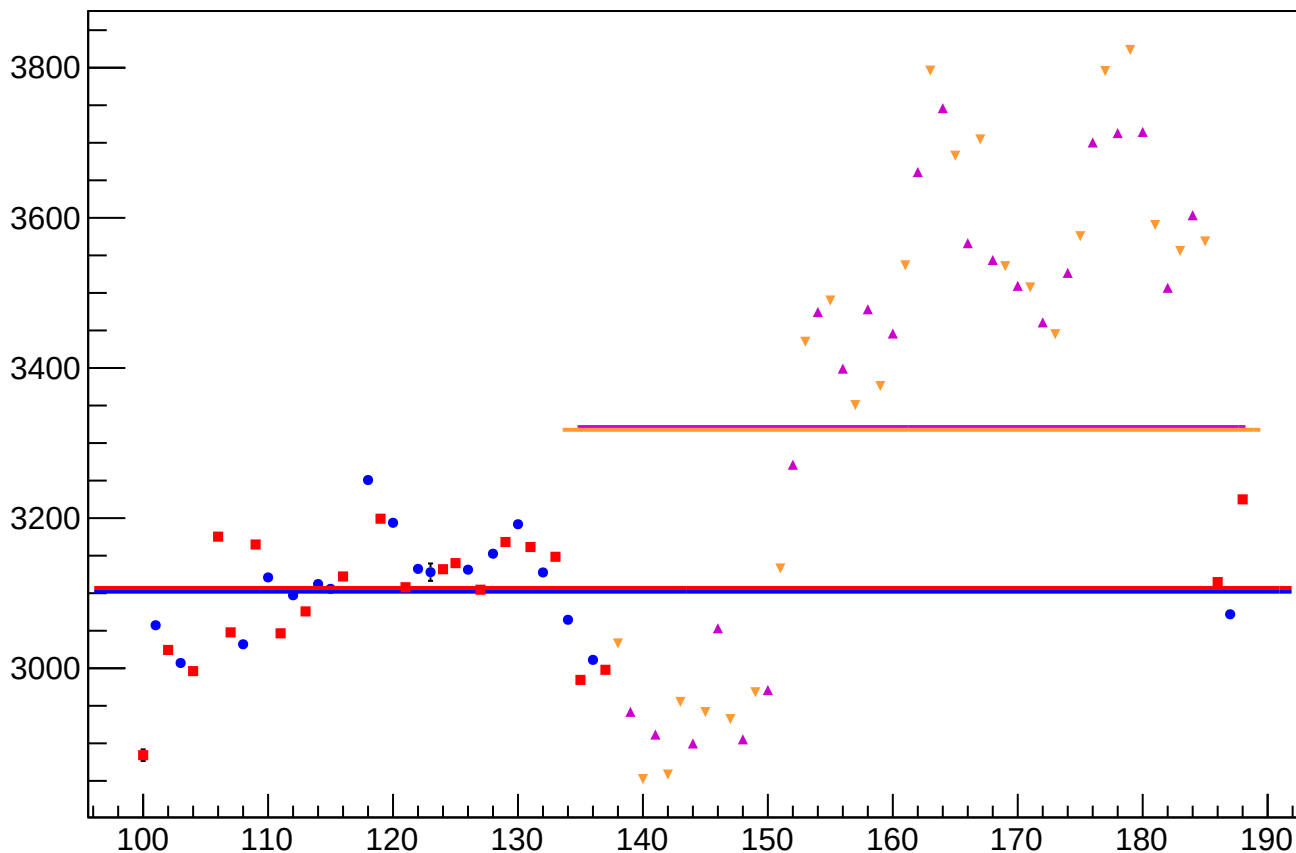
Right: -11.929 $\pm$ 0.794 χ^2/NDF : 1218.2/38

In: -4.073 $\pm$ 0.663 χ^2/NDF : 698.1/40

Out: -7.451 $\pm$ 0.629 χ^2/NDF : 966.0/45

All: -5.851 $\pm$ 0.456 χ^2/NDF : 1677.7/86

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.052 $\pm$ 0.837 χ^2 /NDF: 7367.5/17

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

Right Out: 3106.963 $\pm$ 0.758 χ^2 /NDF: 10490.9/20

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

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

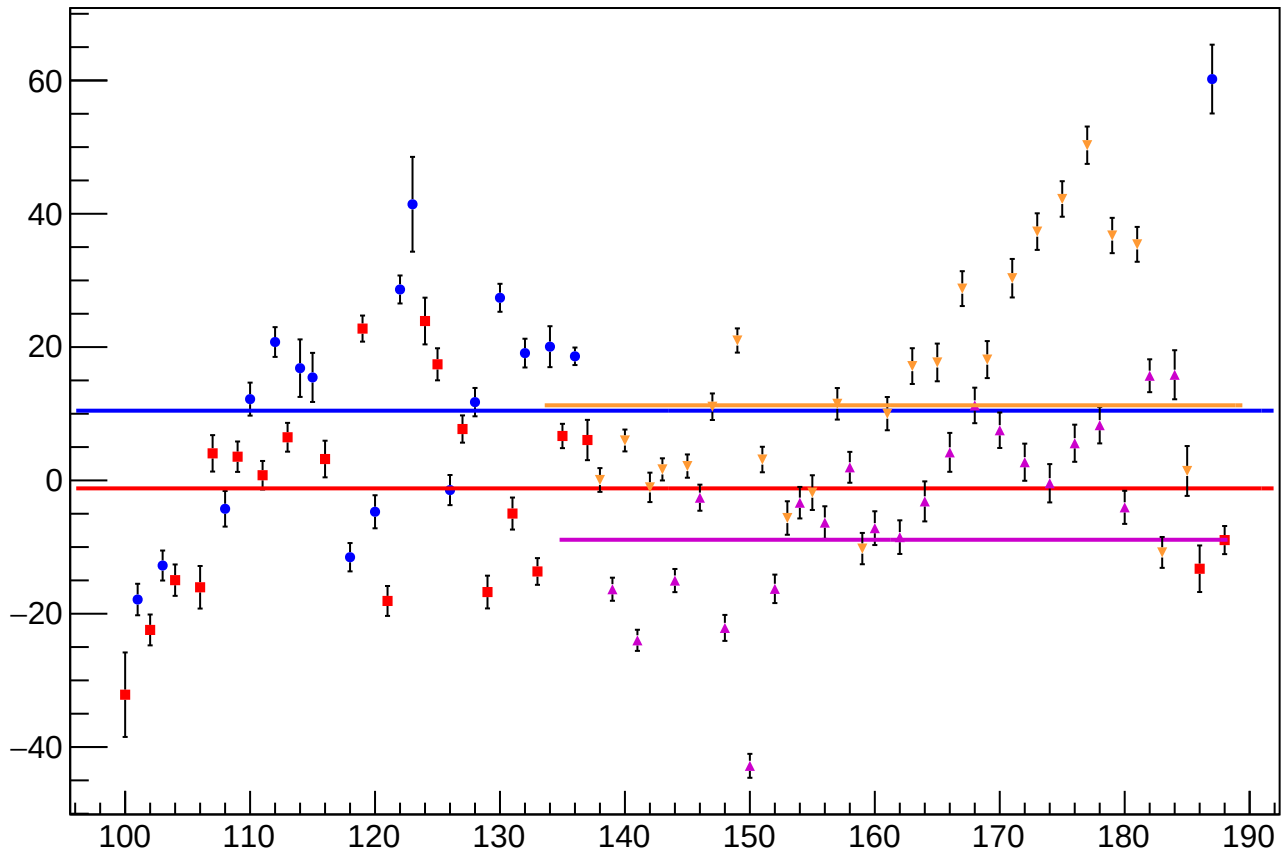
Right: 3104.749 $\pm$ 0.562 χ^2 /NDF: 17877.3/38

In: 3252.449 $\pm$ 0.469 χ^2 /NDF: 338796.7/40

Out: 3245.187 $\pm$ 0.445 χ^2 /NDF: 398075.6/45

All: 3248.626 $\pm$ 0.323 χ^2 /NDF: 736998.6/86

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 10.459 ± 0.557 $\chi^2/\text{NDF}: 795.6/17$

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

Right Out: -1.197 ± 0.524 $\chi^2/\text{NDF}: 655.7/20$

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

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

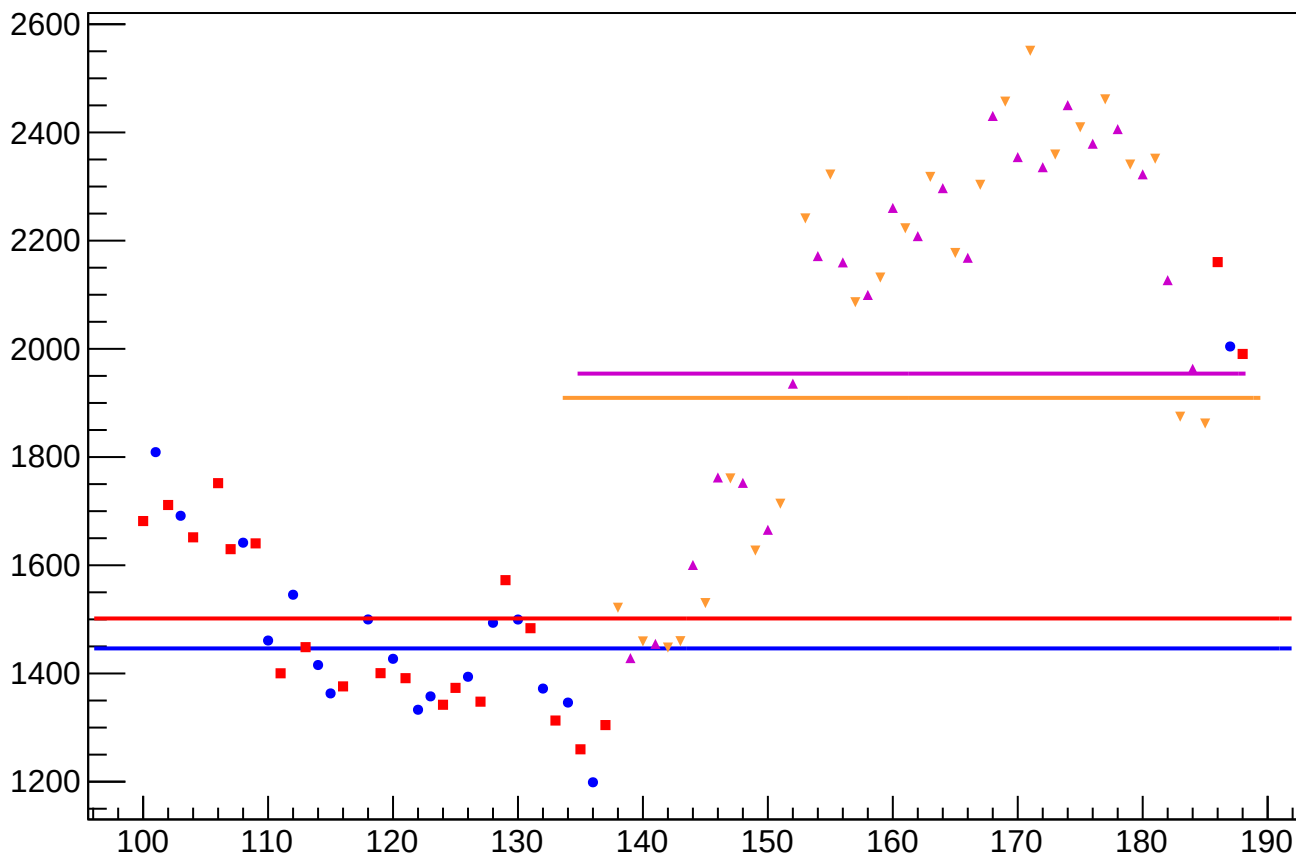
Right: 4.276 ± 0.382 $\chi^2/\text{NDF}: 1683.5/38$

In: -0.705 ± 0.363 $\chi^2/\text{NDF}: 2428.3/40$

Out: 5.920 ± 0.343 $\chi^2/\text{NDF}: 2120.4/45$

All: 2.788 ± 0.249 $\chi^2/\text{NDF}: 4724.7/86$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1446.313 $\pm$ 0.394 χ^2 /NDF: 196524.2/17

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

Right Out: 1501.662 $\pm$ 0.371 χ^2 /NDF: 333265.6/20

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

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

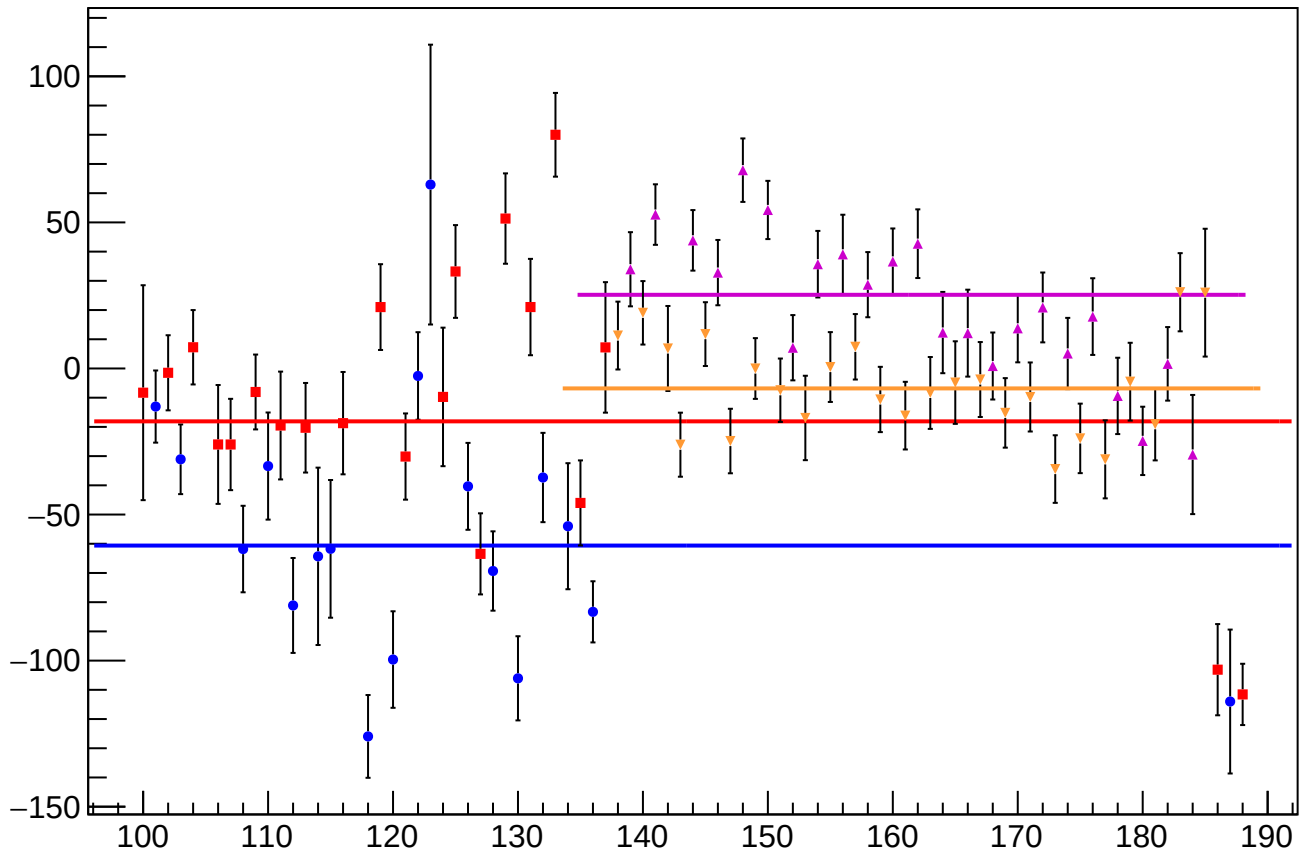
Right: 1475.675 $\pm$ 0.270 χ^2 /NDF: 540259.7/38

In: 1739.145 $\pm$ 0.256 χ^2 /NDF:2199575.6/40

Out: 1734.467 $\pm$ 0.243 χ^2 /NDF:2422692.2/45

All: 1736.678 $\pm$ 0.176 χ^2 /NDF: 4622443.4/86

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -60.620 ± 3.693 χ^2/NDF : 97.4/17

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

Right Out: -18.102 ± 3.355 χ^2/NDF : 222.4/20

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

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

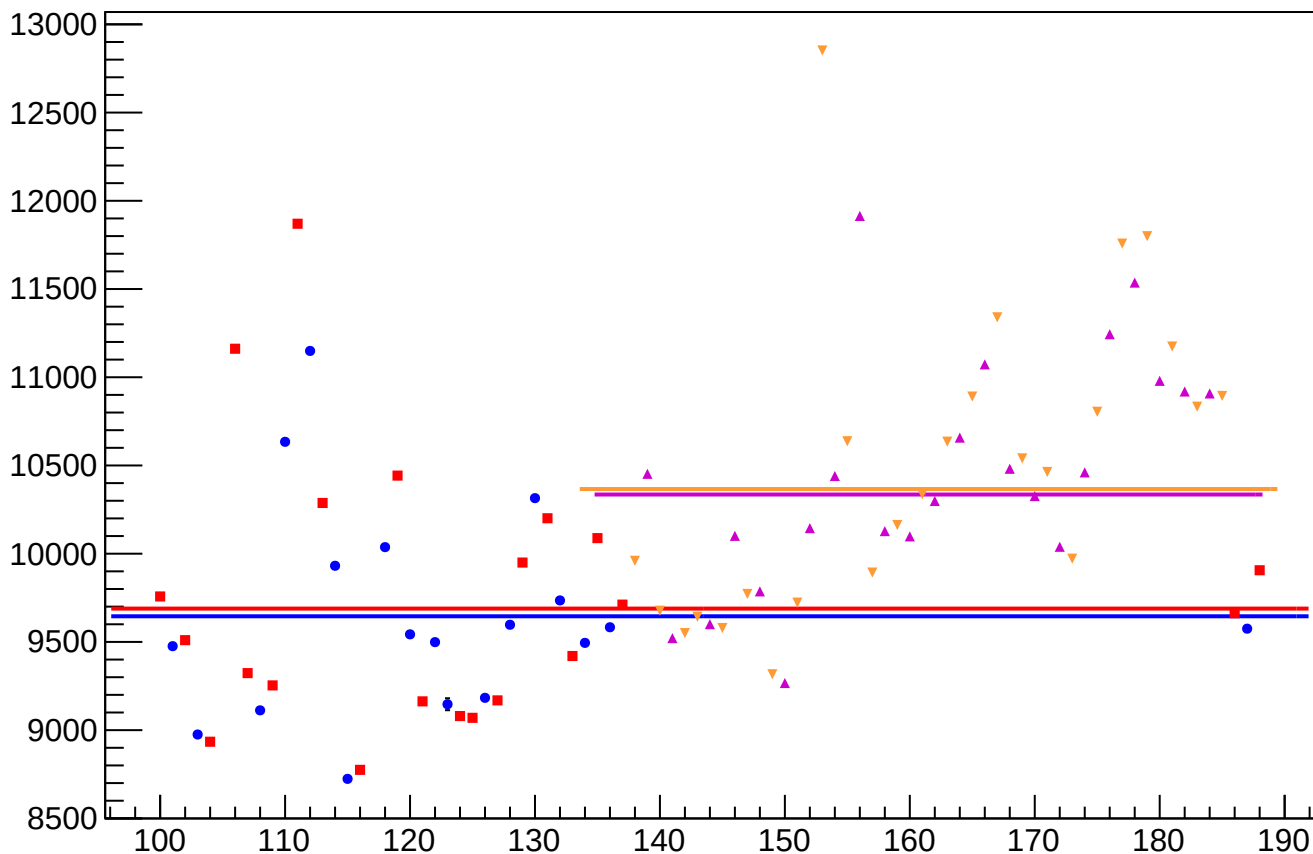
Right: -37.327 ± 2.484 χ^2/NDF : 392.4/38

In: -1.557 ± 2.063 χ^2/NDF : 558.3/40

Out: -10.689 ± 1.964 χ^2/NDF : 272.2/45

All: -6.346 ± 1.422 χ^2/NDF : 840.7/86

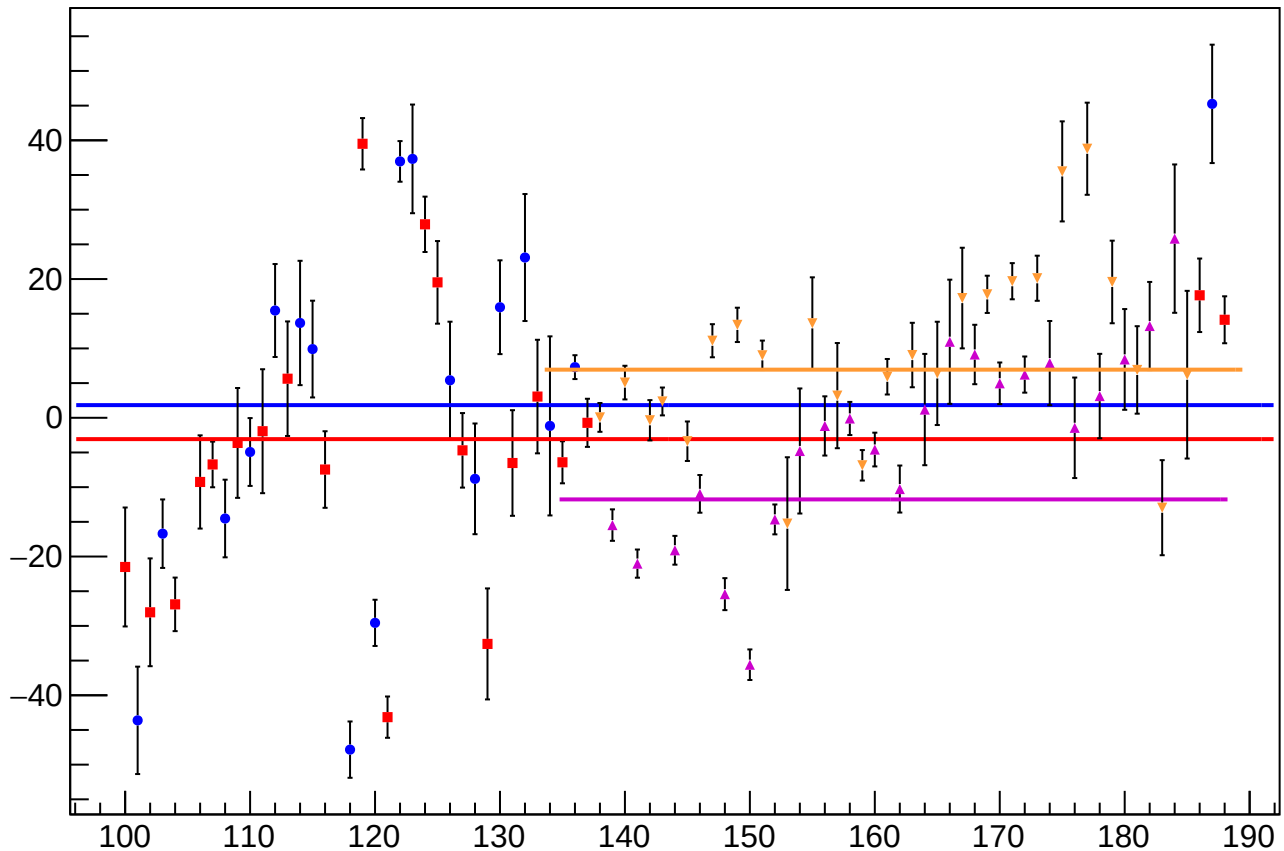
diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9645.307 $\pm$ 2.612 χ^2/NDF : 44013.7/17
 Left Out: 10366.534 $\pm$ 1.713 χ^2/NDF : 211402.8/24
 Right Out: 9688.870 $\pm$ 2.373 χ^2/NDF : 78282.8/20
 Left In: 10335.399 $\pm$ 1.758 χ^2/NDF : 127173.0/22

Left: 10351.373 $\pm$ 1.227 χ^2/NDF : 338736.7/47
 Right: 9669.172 $\pm$ 1.756 χ^2/NDF : 122448.9/38
 In: 10120.156 $\pm$ 1.459 χ^2/NDF : 219232.5/40
 Out: 10134.337 $\pm$ 1.389 χ^2/NDF : 343309.8/45
 All: 10127.593 $\pm$ 1.006 χ^2/NDF : 562591.9/86

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.826 ± 1.059 $\chi^2/\text{NDF}: 517.0/17$

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

Right Out: -3.075 ± 1.020 $\chi^2/\text{NDF}: 502.1/20$

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

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

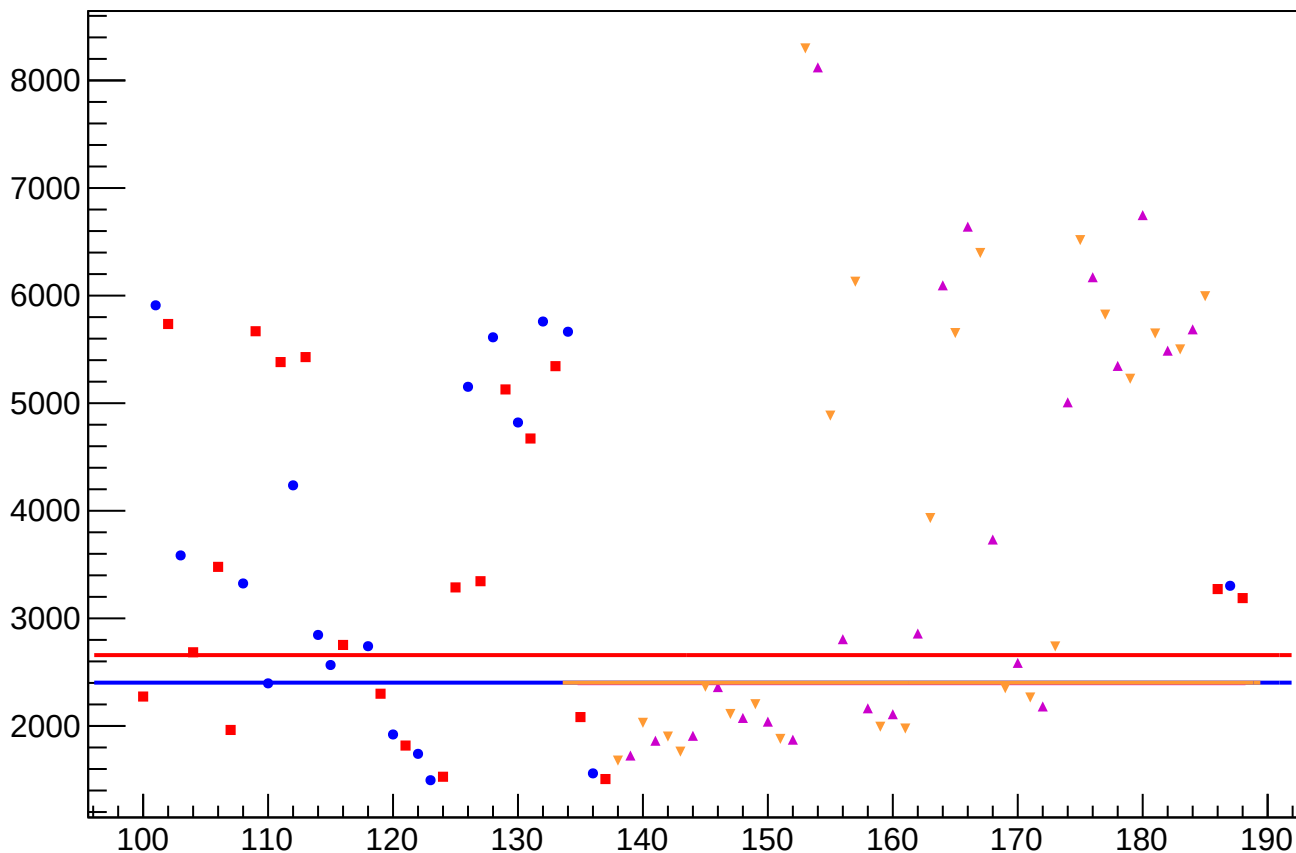
Right: -0.717 ± 0.735 $\chi^2/\text{NDF}: 1030.2/38$

In: -8.060 ± 0.553 $\chi^2/\text{NDF}: 1031.9/40$

Out: 4.117 ± 0.541 $\chi^2/\text{NDF}: 775.2/45$

All: -1.842 ± 0.387 $\chi^2/\text{NDF}: 2054.8/86$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2402.611 $\pm$ 0.749 χ^2/NDF : 2611294.1/17

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

Right Out: 2658.597 $\pm$ 0.721 χ^2/NDF : 2445752.2/20

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

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

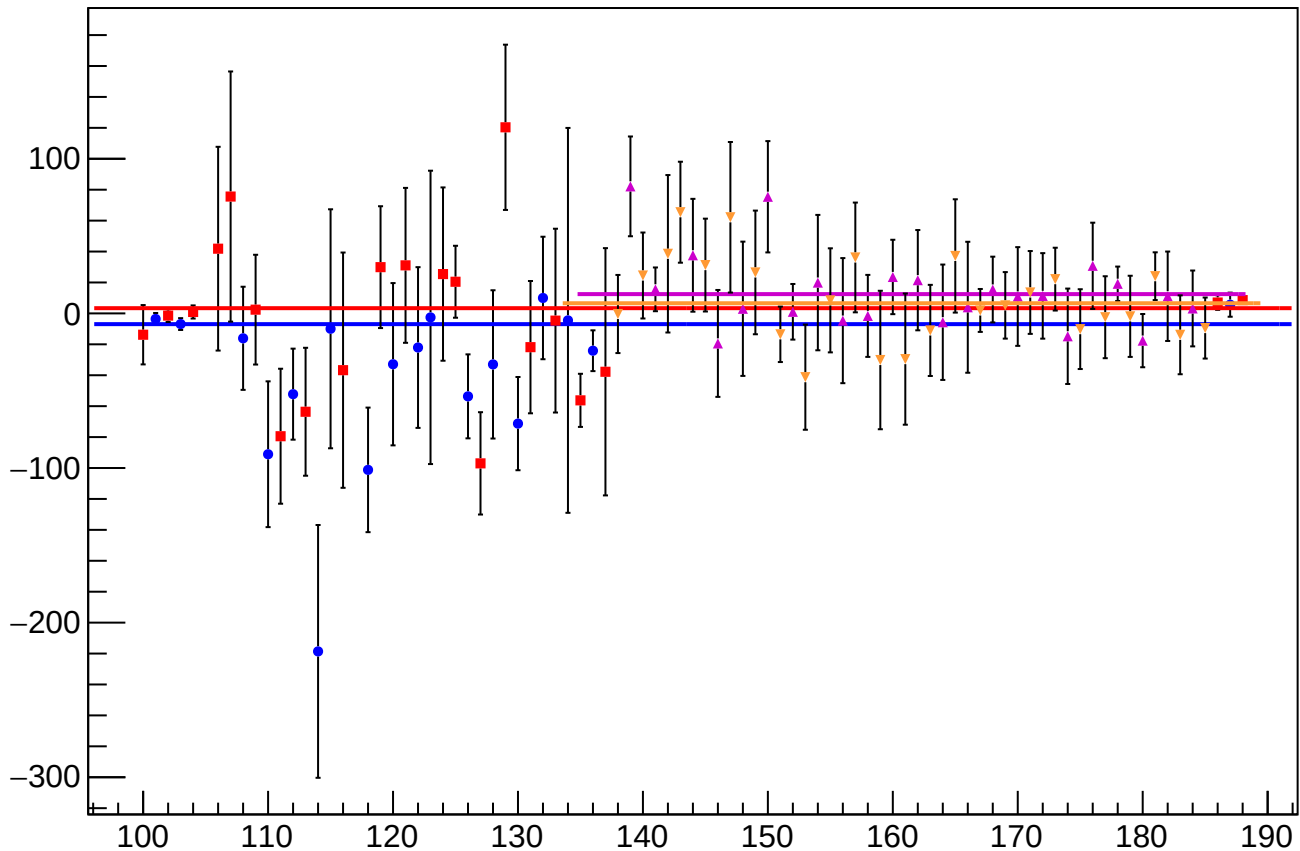
Right: 2535.428 $\pm$ 0.519 χ^2/NDF : 5117687.1/38

In: 2399.040 $\pm$ 0.391 χ^2/NDF : 8010245.5/40

Out: 2474.565 $\pm$ 0.383 χ^2/NDF : 8882430.2/45

All: 2437.604 $\pm$ 0.274 χ^2/NDF : 16911728.1/86

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -6.950 ± 2.456 χ^2/NDF : 31.2/17

Left Out: 6.560 ± 5.077 χ^2/NDF : 16.8/24

Right Out: 3.372 ± 1.873 χ^2/NDF : 41.9/20

Left In: 12.469 ± 5.025 χ^2/NDF : 15.4/22

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

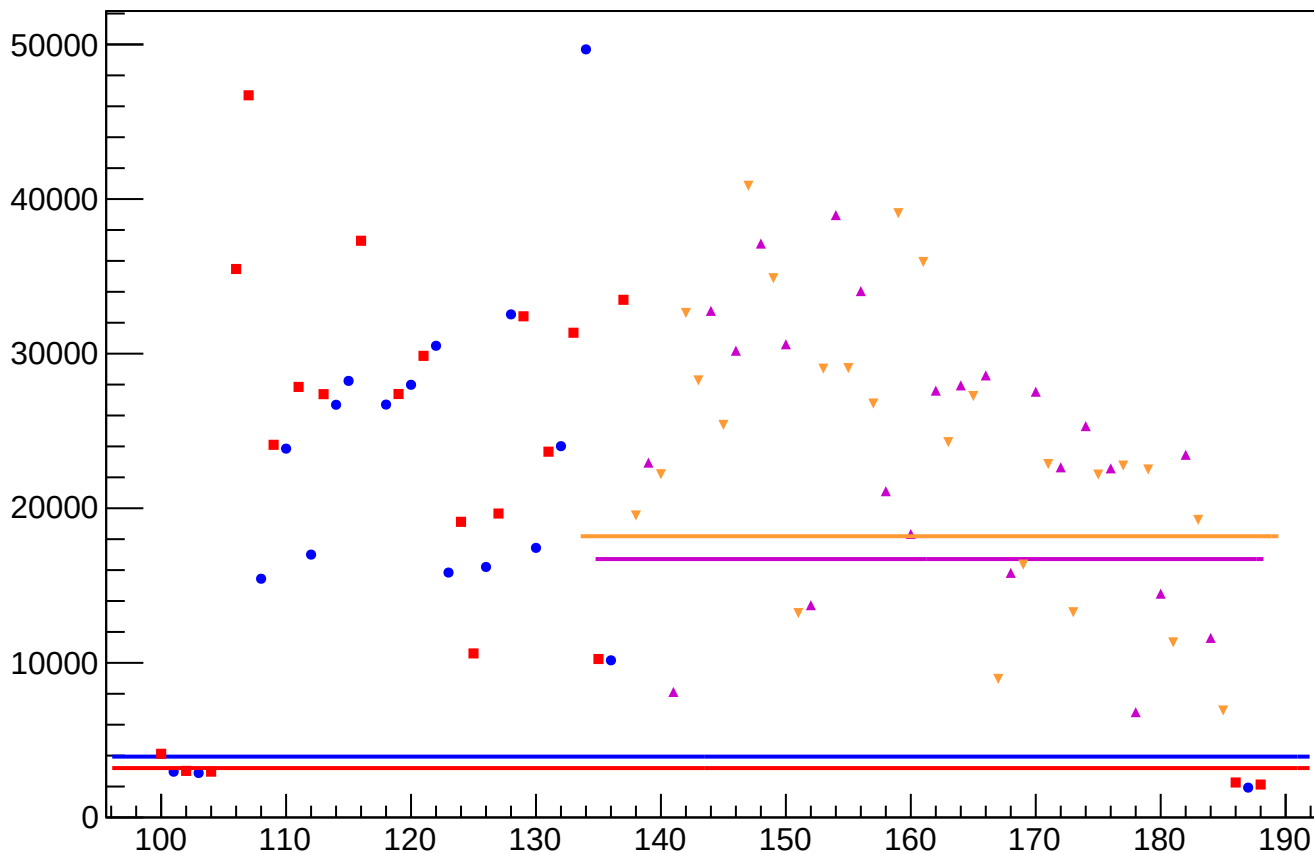
Right: -0.424 ± 1.490 χ^2/NDF : 84.3/38

In: -3.205 ± 2.207 χ^2/NDF : 58.6/40

Out: 3.754 ± 1.758 χ^2/NDF : 59.0/45

All: 1.053 ± 1.375 χ^2/NDF : 123.7/86

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 3934.913 ± 1.737 $\chi^2/\text{NDF}: 6121540.7/17$

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

Right Out: 3194.104 ± 1.325 $\chi^2/\text{NDF}: 8131835.3/20$

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

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

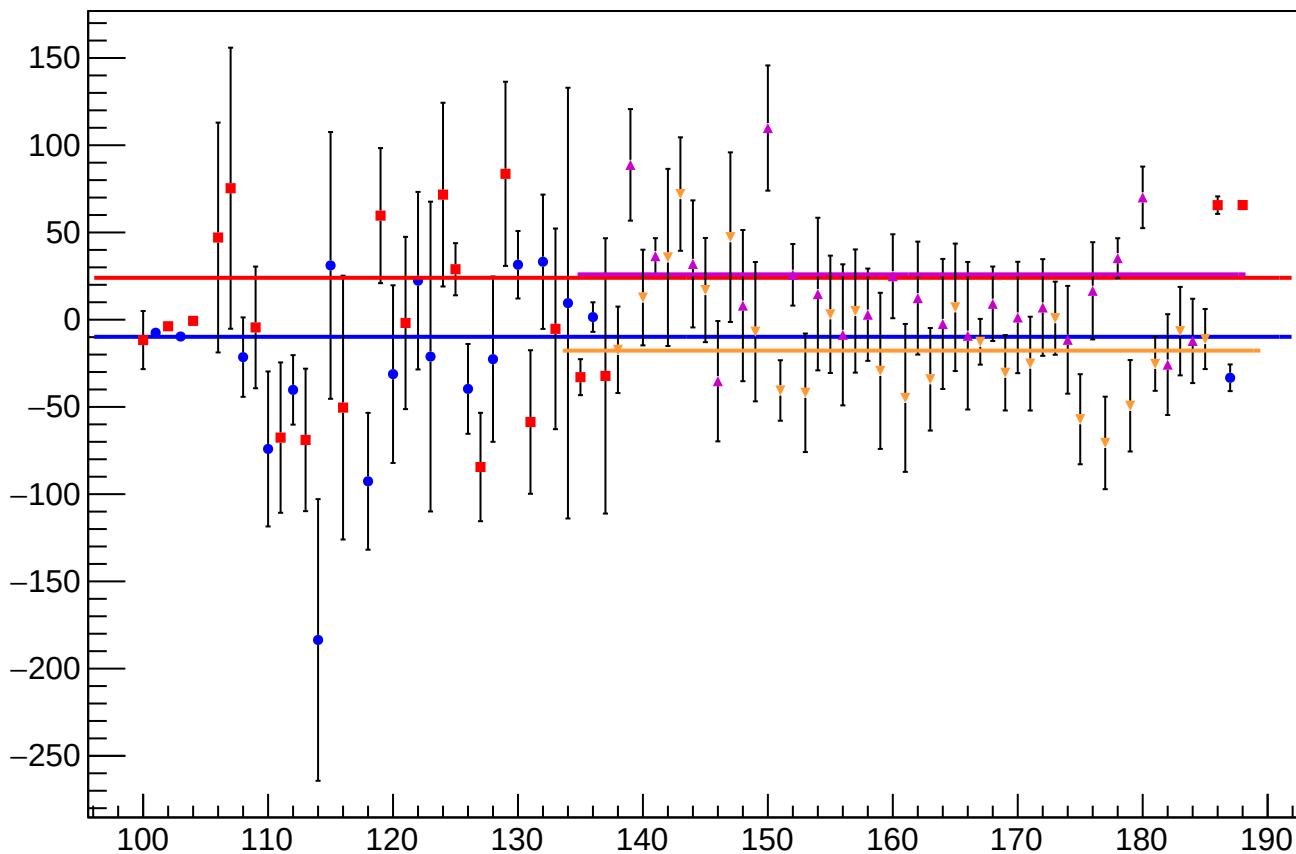
Right: 3466.553 ± 1.053 $\chi^2/\text{NDF}: 14368402.3/38$

In: 6398.992 ± 1.560 $\chi^2/\text{NDF}: 22754572.4/40$

Out: 4990.880 ± 1.243 $\chi^2/\text{NDF}: 28749354.1/45$

All: 5537.406 ± 0.972 $\chi^2/\text{NDF}: 52002213.2/8$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -9.805 $\pm$ 1.732 χ^2/NDF : 33.9/17

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

Right Out: 24.009 $\pm$ 1.495 χ^2/NDF : 545.5/20

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

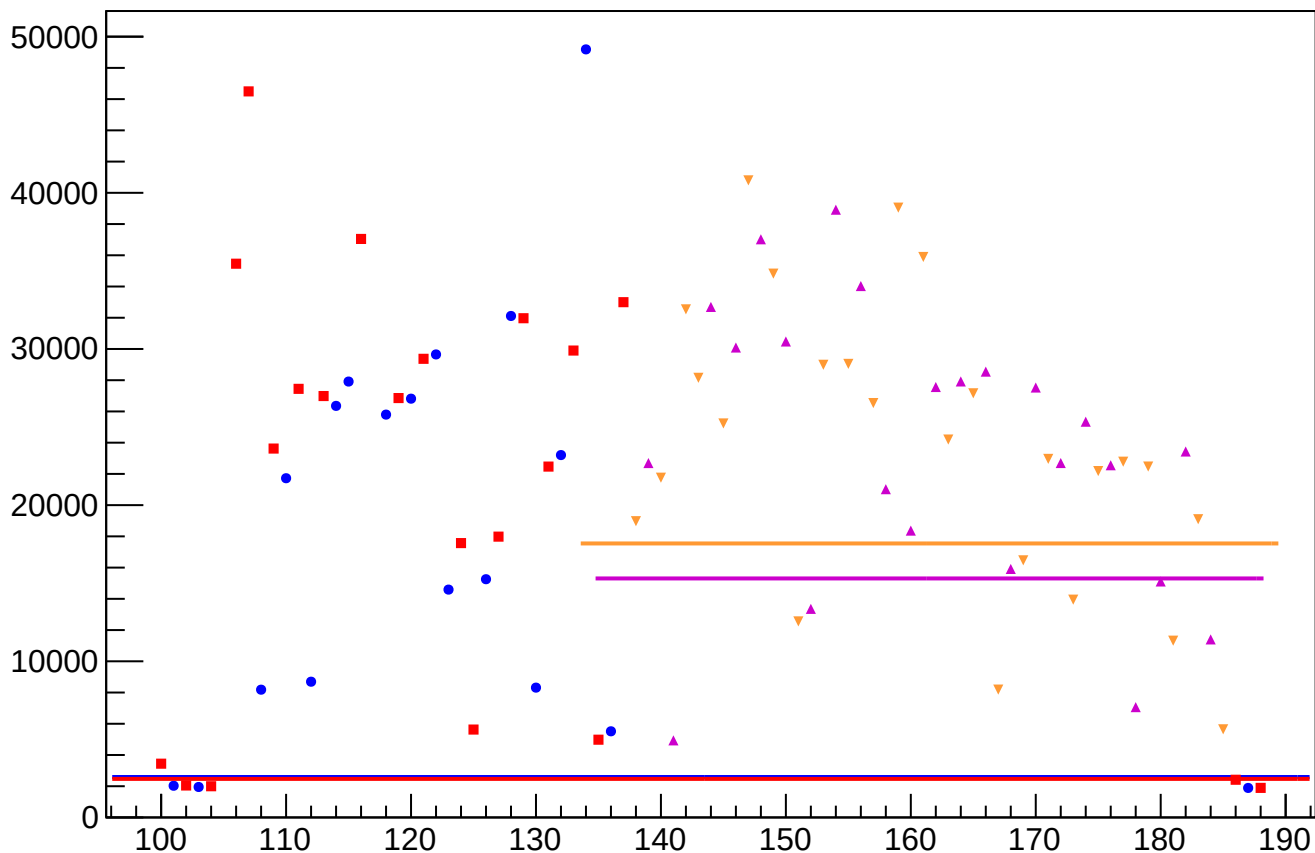
Right: 9.573 $\pm$ 1.132 χ^2/NDF : 797.8/38

In: -5.665 $\pm$ 1.629 χ^2/NDF : 115.9/40

Out: 20.553 $\pm$ 1.432 χ^2/NDF : 637.2/45

All: 9.126 $\pm$ 1.075 χ^2/NDF : 899.3/86

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2589.350 ± 1.225 $\chi^2/\text{NDF}: 5587460.5/17$

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

Right Out: 2470.160 ± 1.057 $\chi^2/\text{NDF}: 7953099.9/20$

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

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

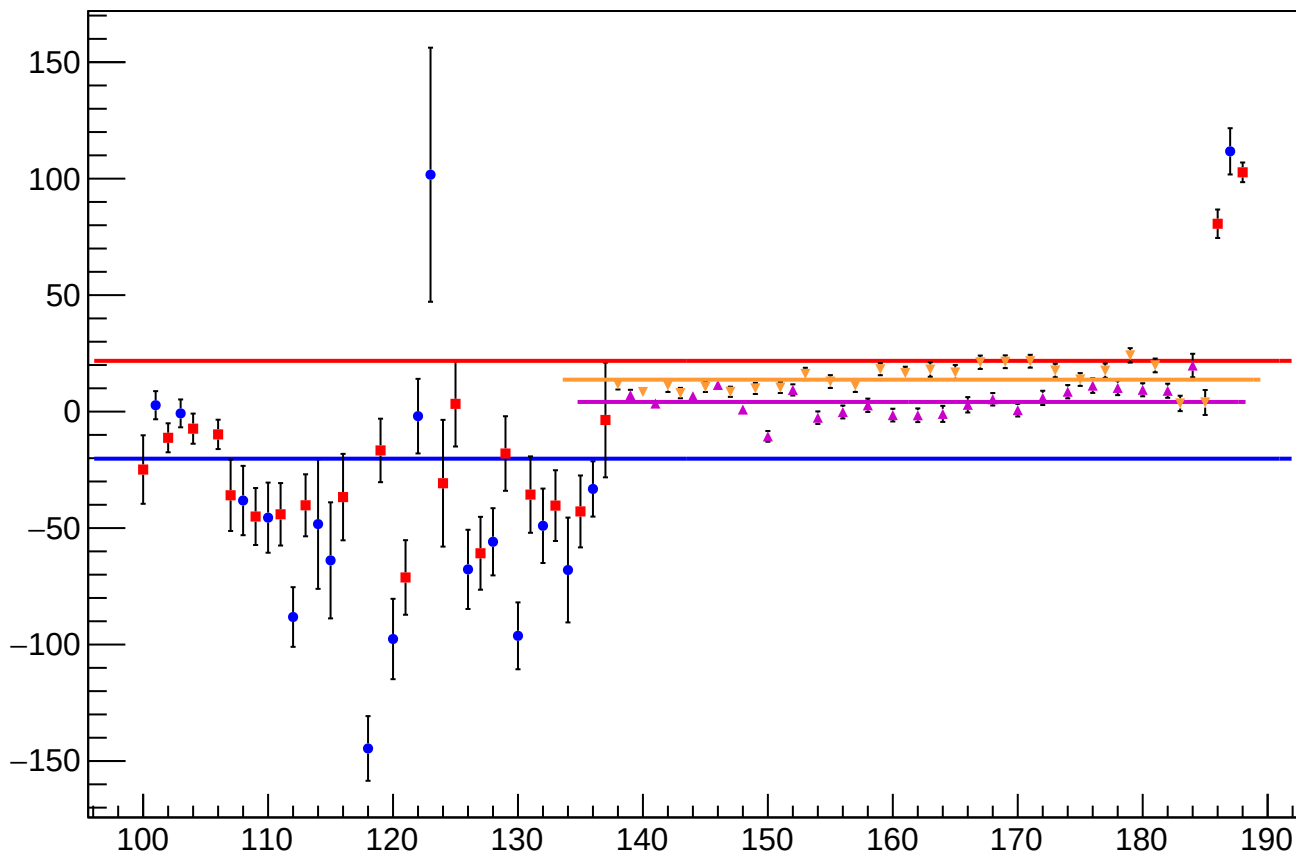
Right: 2521.044 ± 0.800 $\chi^2/\text{NDF}: 13545989.2/38$

In: 4060.053 ± 1.152 $\chi^2/\text{NDF}: 25779041.9/40$

Out: 3718.784 ± 1.012 $\chi^2/\text{NDF}: 30705929.6/45$

All: 3867.528 ± 0.760 $\chi^2/\text{NDF}: 56534513.2/8$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -20.210 $\pm$ 2.858 χ^2/NDF : 395.7/17

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

Right Out: 21.788 $\pm$ 2.117 χ^2/NDF : 772.4/20

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

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

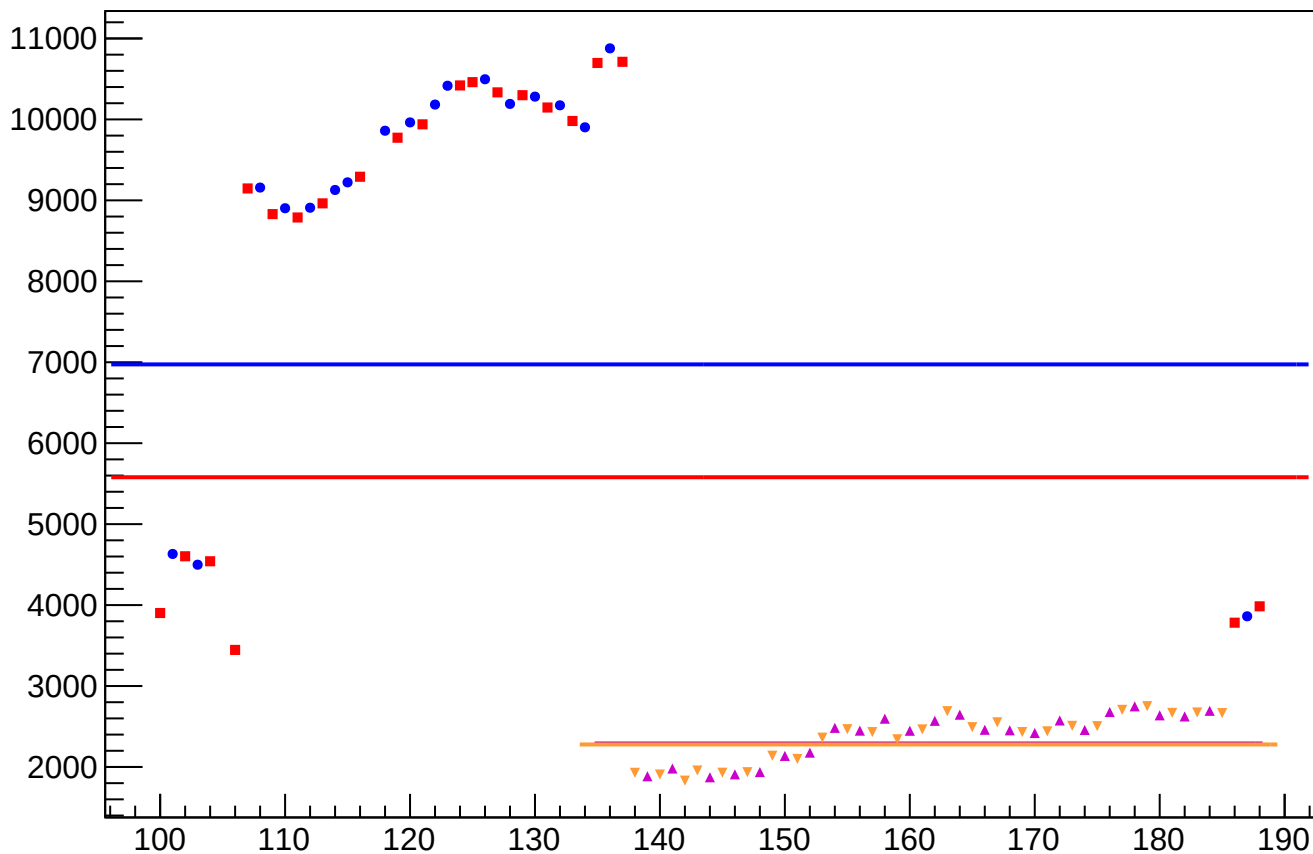
Right: 6.910 $\pm$ 1.701 χ^2/NDF : 1307.5/38

In: 3.256 $\pm$ 0.545 χ^2/NDF :577.4/40

Out: 14.195 $\pm$ 0.519 χ^2/NDF :875.9/45

All: 8.990 $\pm$ 0.376 χ^2/NDF : 1664.7/86

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 6973.467+/-2.021 χ^2/NDF : 1847166.9/17

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

Right Out: 5579.325+/-1.497 χ^2/NDF : 2920566.8/20

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

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

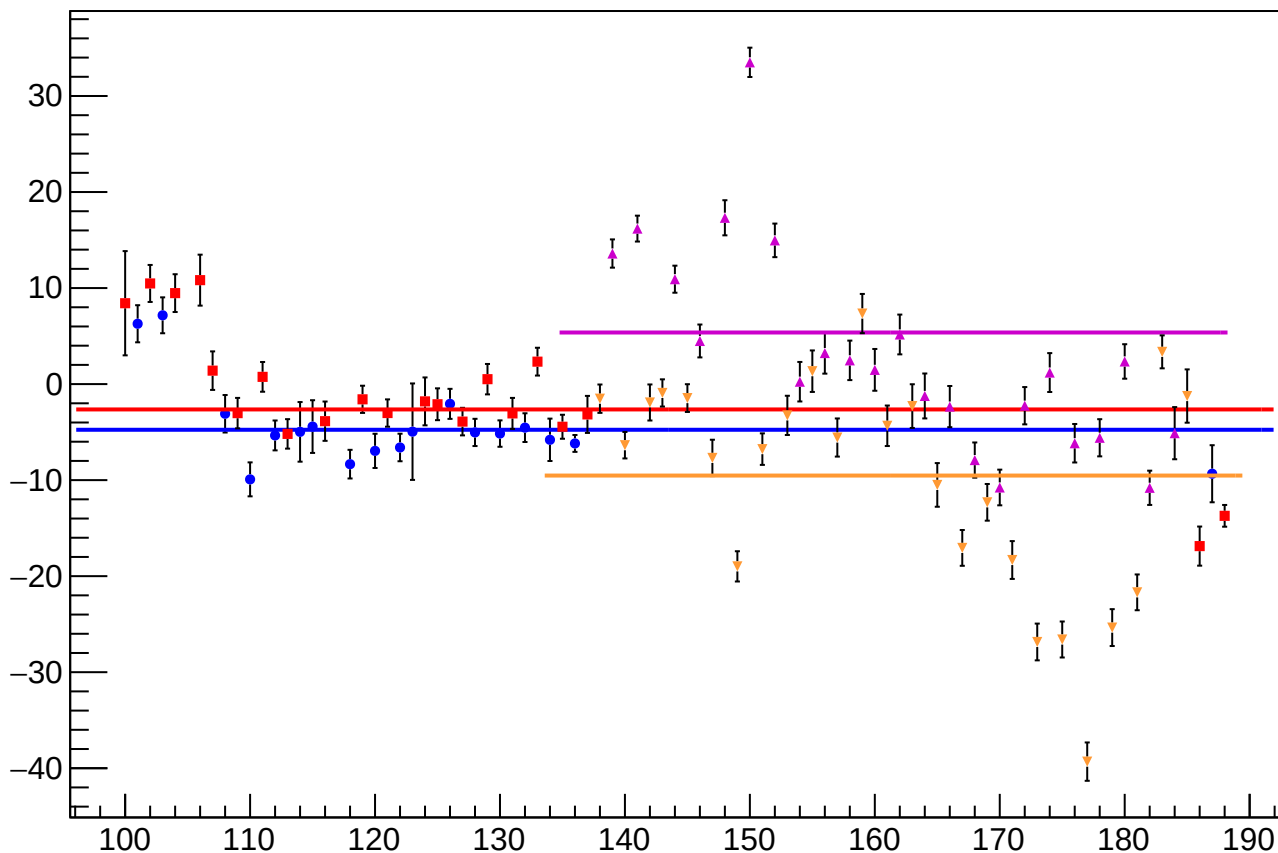
Right: 6073.227+/-1.203 χ^2/NDF : 5074963.9/38

In: 2460.484+/-0.385 χ^2/NDF : 7610966.8/40

Out: 2476.435+/-0.367 χ^2/NDF : 8098097.0/45

All: 2468.845+/-0.266 χ^2/NDF : 15709963.1/8

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.757 ± 0.390 $\chi^2/\text{NDF}: 100.0/17$

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

Right Out: -2.640 ± 0.362 $\chi^2/\text{NDF}: 290.4/20$

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

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

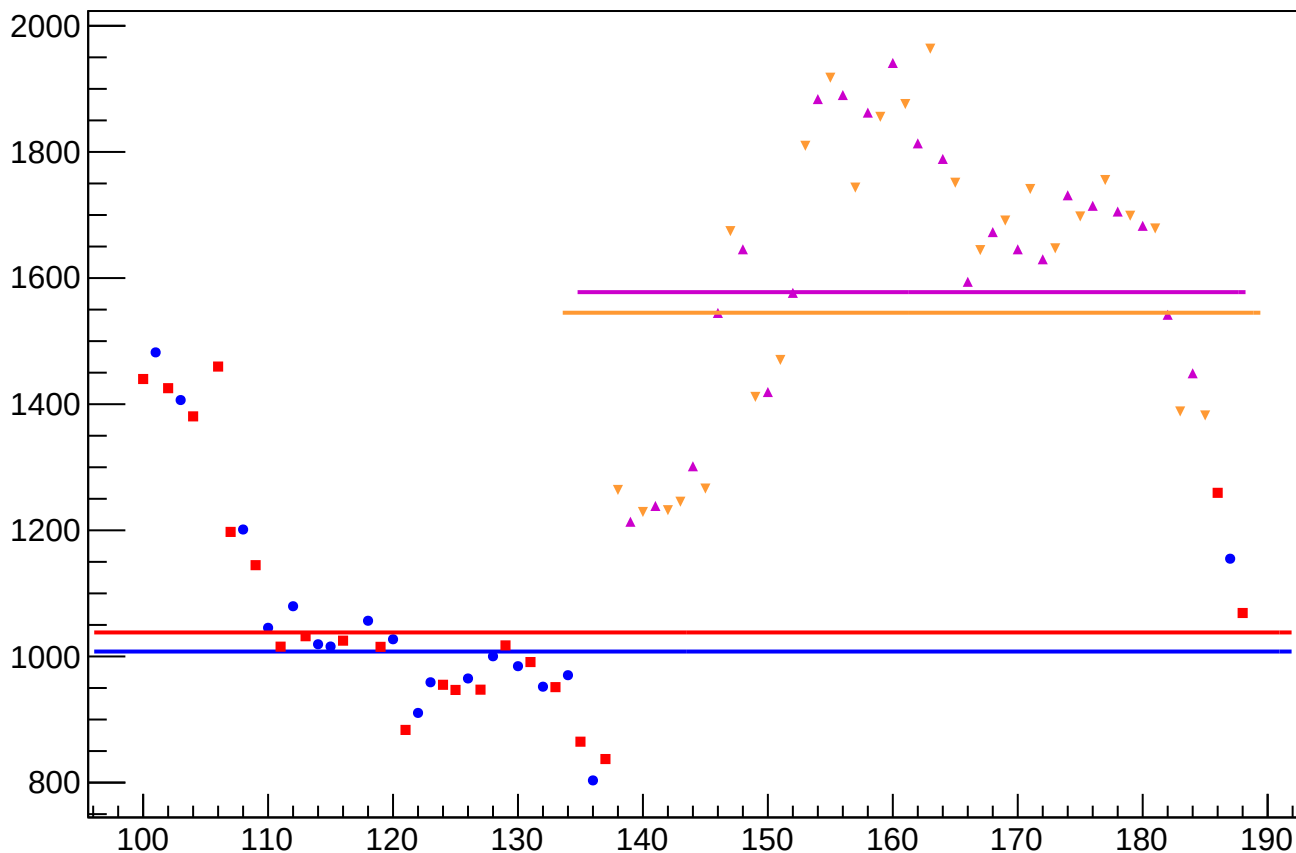
Right: -3.620 ± 0.265 $\chi^2/\text{NDF}: 406.2/38$

In: 0.400 ± 0.273 $\chi^2/\text{NDF}: 1313.3/40$

Out: -6.058 ± 0.257 $\chi^2/\text{NDF}: 1353.8/45$

All: -3.026 ± 0.187 $\chi^2/\text{NDF}: 2963.5/86$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1007.814 $\pm$ 0.276 χ^2/NDF : 366926.9/17

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

Right Out: 1038.073 $\pm$ 0.256 χ^2/NDF : 359900.5/20

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

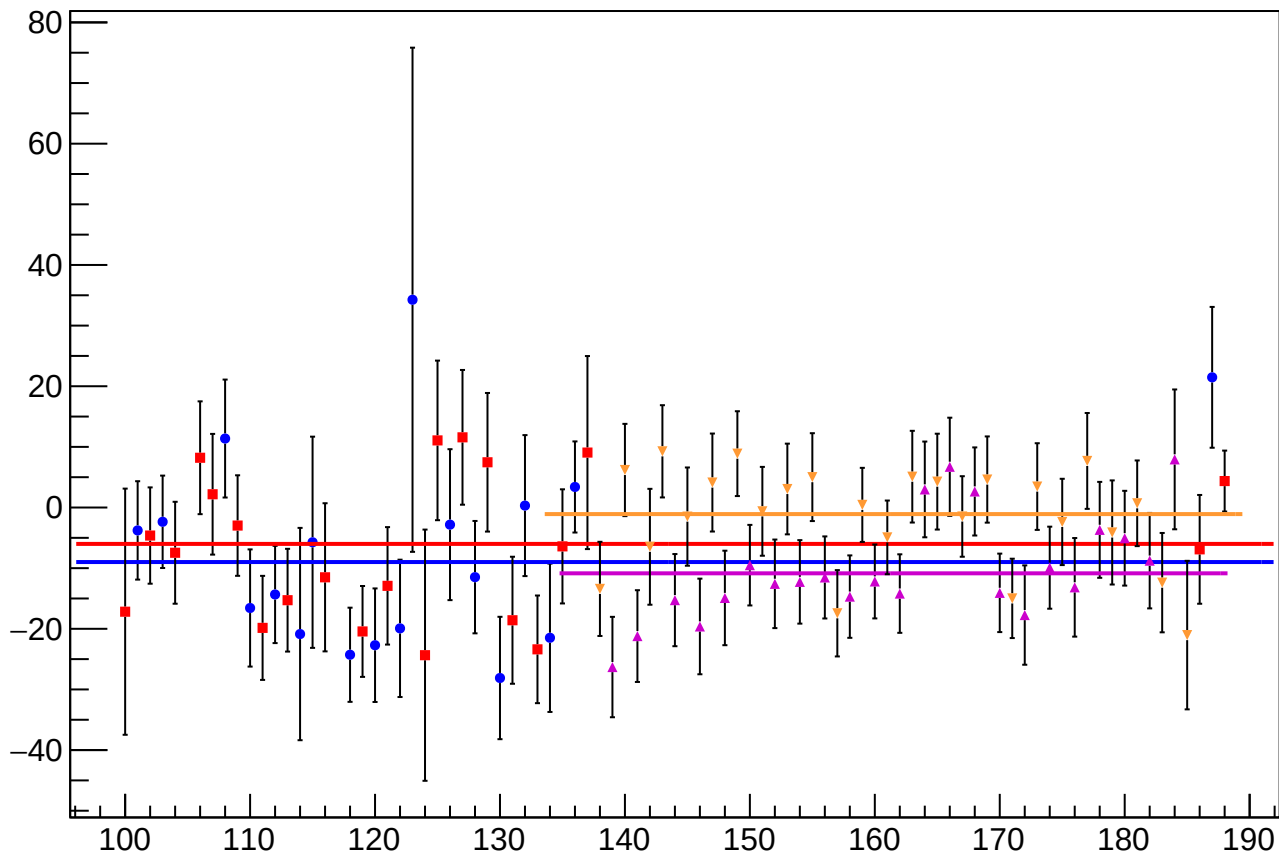
Right: 1024.057 $\pm$ 0.188 χ^2/NDF : 733292.7/38

In: 1297.936 $\pm$ 0.193 χ^2/NDF : 3167039.2/40

Out: 1289.774 $\pm$ 0.182 χ^2/NDF : 3147915.4/45

All: 1293.606 $\pm$ 0.132 χ^2/NDF : 6315901.5/86

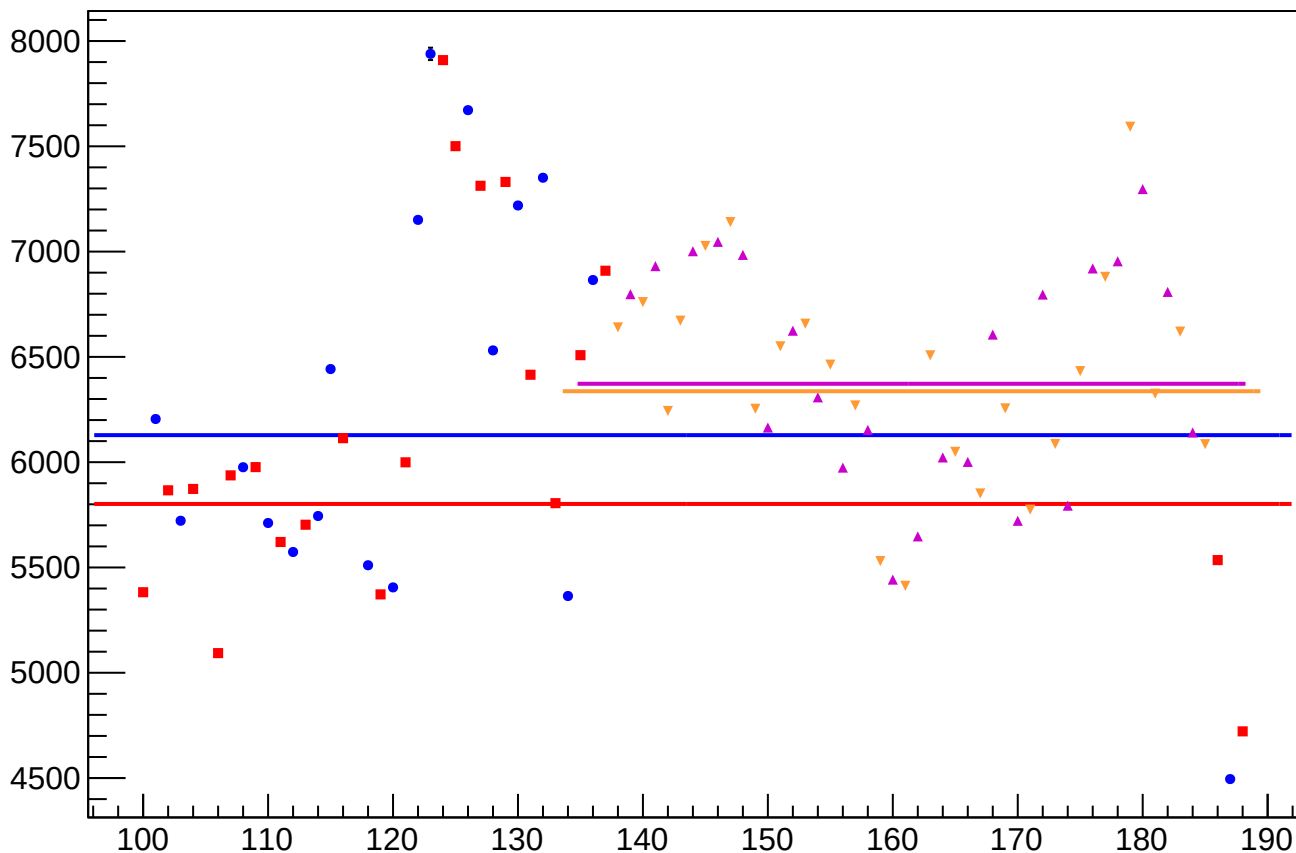
diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -8.991 $\pm$ 2.361 χ^2/NDF : 30.3/17
Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24
Right Out: -6.000 $\pm$ 2.023 χ^2/NDF : 28.5/20
Left In: -10.851 $\pm$ 1.542 χ^2/NDF : 24.4/22

Left: -5.792 $\pm$ 1.070 χ^2/NDF : 72.7/47
Right: -7.266 $\pm$ 1.536 χ^2/NDF : 59.8/38
In: -10.295 $\pm$ 1.291 χ^2/NDF : 55.1/40
Out: -2.808 $\pm$ 1.198 χ^2/NDF : 59.9/45
All: -6.273 $\pm$ 0.878 χ^2/NDF : 133.1/86

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6128.408 $\pm$ 1.670 χ^2/NDF : 212583.5/17

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

Right Out: 5801.677 $\pm$ 1.431 χ^2/NDF : 272771.3/20

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

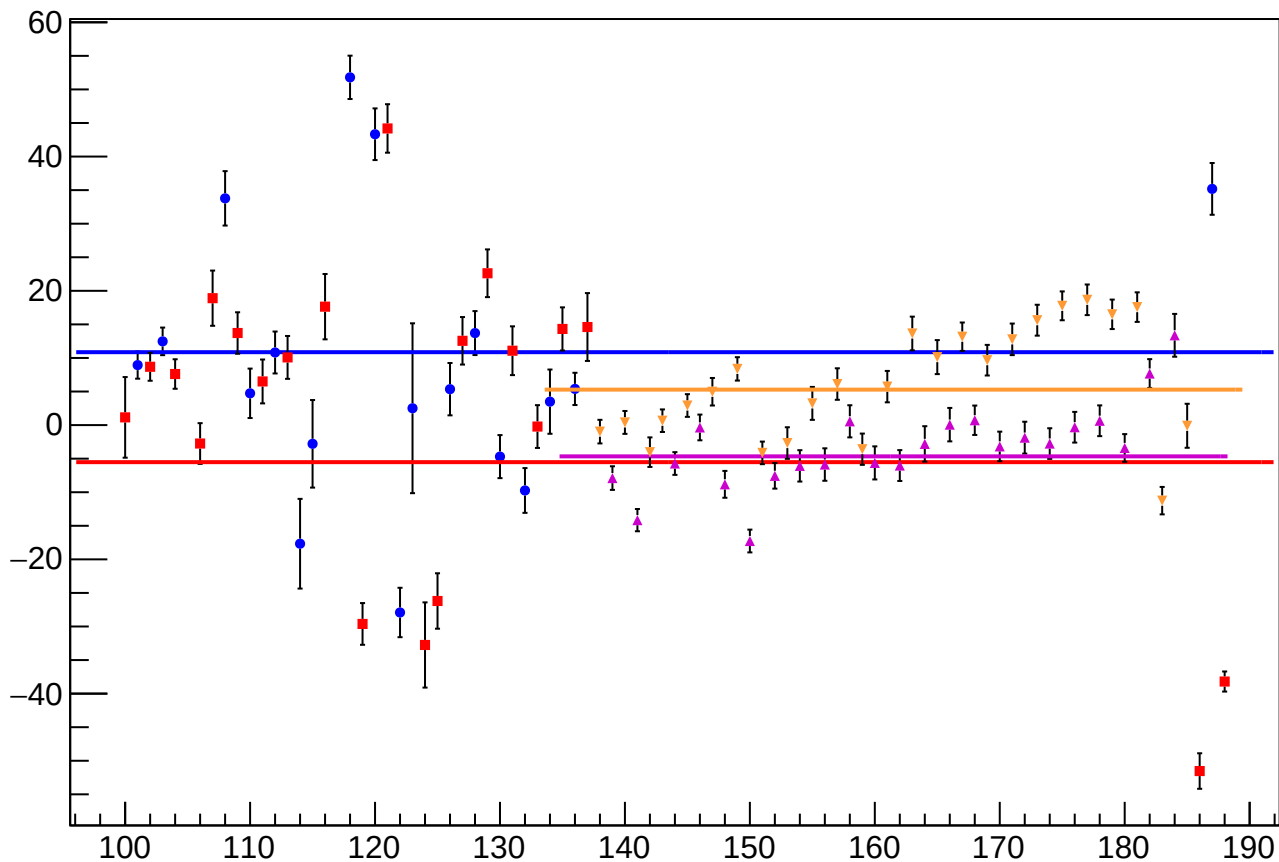
Right: 5939.983 $\pm$ 1.086 χ^2/NDF : 507436.2/38

In: 6299.449 $\pm$ 0.913 χ^2/NDF : 474805.7/40

Out: 6149.130 $\pm$ 0.847 χ^2/NDF : 586550.5/45

All: 6218.702 $\pm$ 0.621 χ^2/NDF : 1075923.8/86

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 10.860 ± 0.781 χ^2/NDF : 514.1/17

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

Right Out: -5.520 ± 0.660 χ^2/NDF : 1457.2/20

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

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

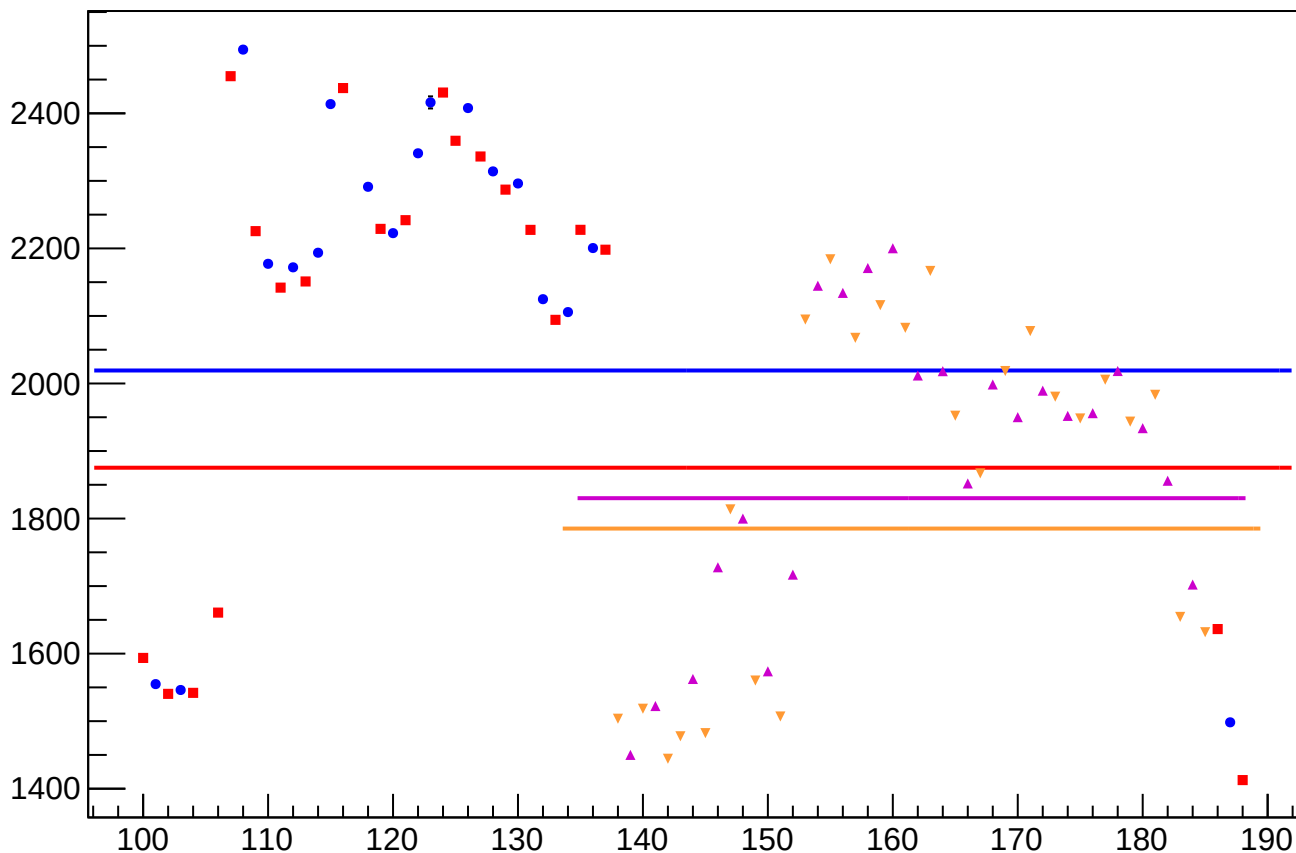
Right: 1.302 ± 0.504 χ^2/NDF : 2227.7/38

In: -0.879 ± 0.386 χ^2/NDF : 1009.0/40

Out: 2.164 ± 0.355 χ^2/NDF : 2013.7/45

All: 0.769 ± 0.261 χ^2/NDF : 3056.4/86

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2019.241 $\pm$ 0.553 χ^2/NDF : 394276.4/17

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

Right Out: 1875.274 $\pm$ 0.467 χ^2/NDF : 650452.2/20

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

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

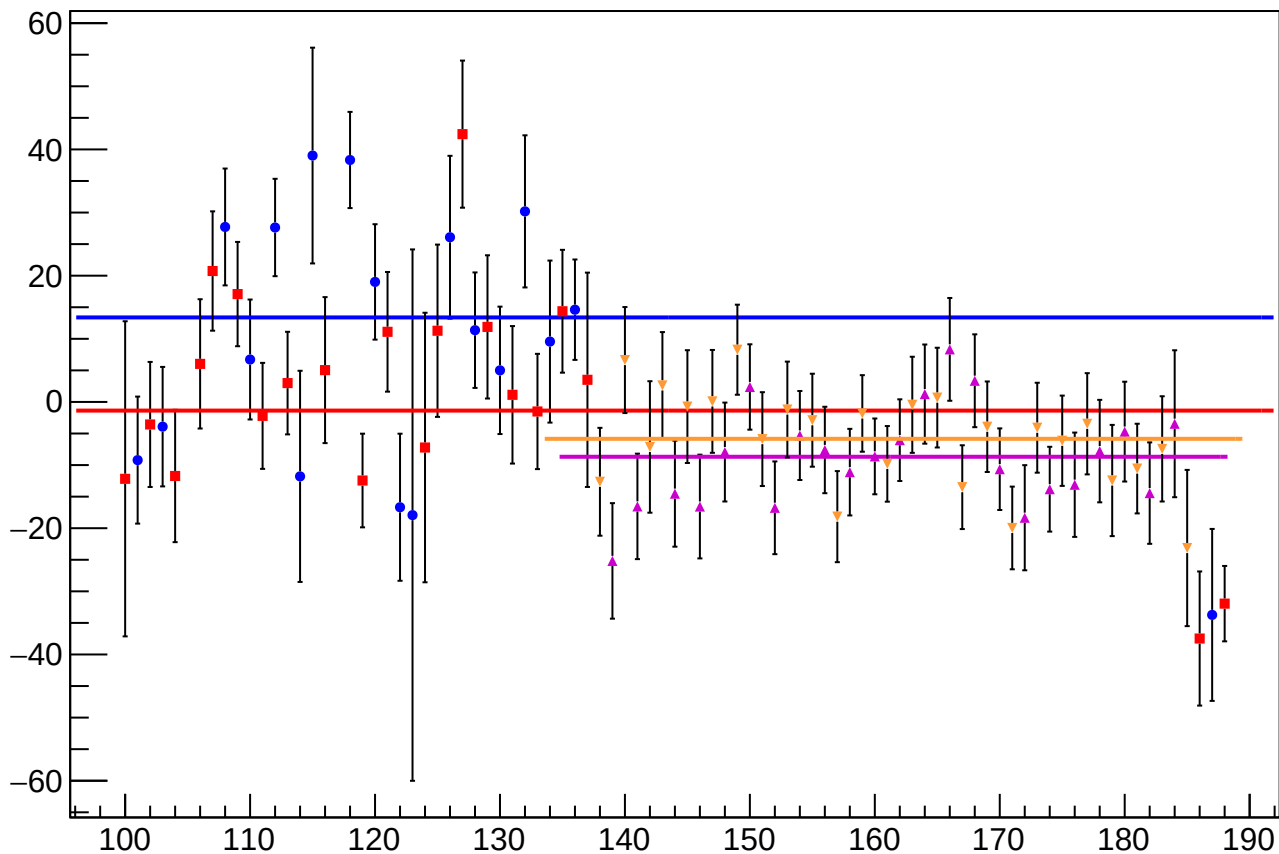
Right: 1935.233 $\pm$ 0.357 χ^2/NDF : 1084341.6/38

In: 1876.201 $\pm$ 0.273 χ^2/NDF : 991253.5/40

Out: 1811.199 $\pm$ 0.251 χ^2/NDF : 1427572.2/45

All: 1840.998 $\pm$ 0.185 χ^2/NDF : 2449605.5/86

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 13.387 ± 2.449 $\chi^2/\text{NDF}: 53.3/17$

Left Out: -5.840 ± 1.518 $\chi^2/\text{NDF}: 23.3/24$

Right Out: -1.369 ± 2.149 $\chi^2/\text{NDF}: 73.7/20$

Left In: -8.683 ± 1.571 $\chi^2/\text{NDF}: 21.9/22$

Left: -7.214 ± 1.092 $\chi^2/\text{NDF}: 47.0/47$

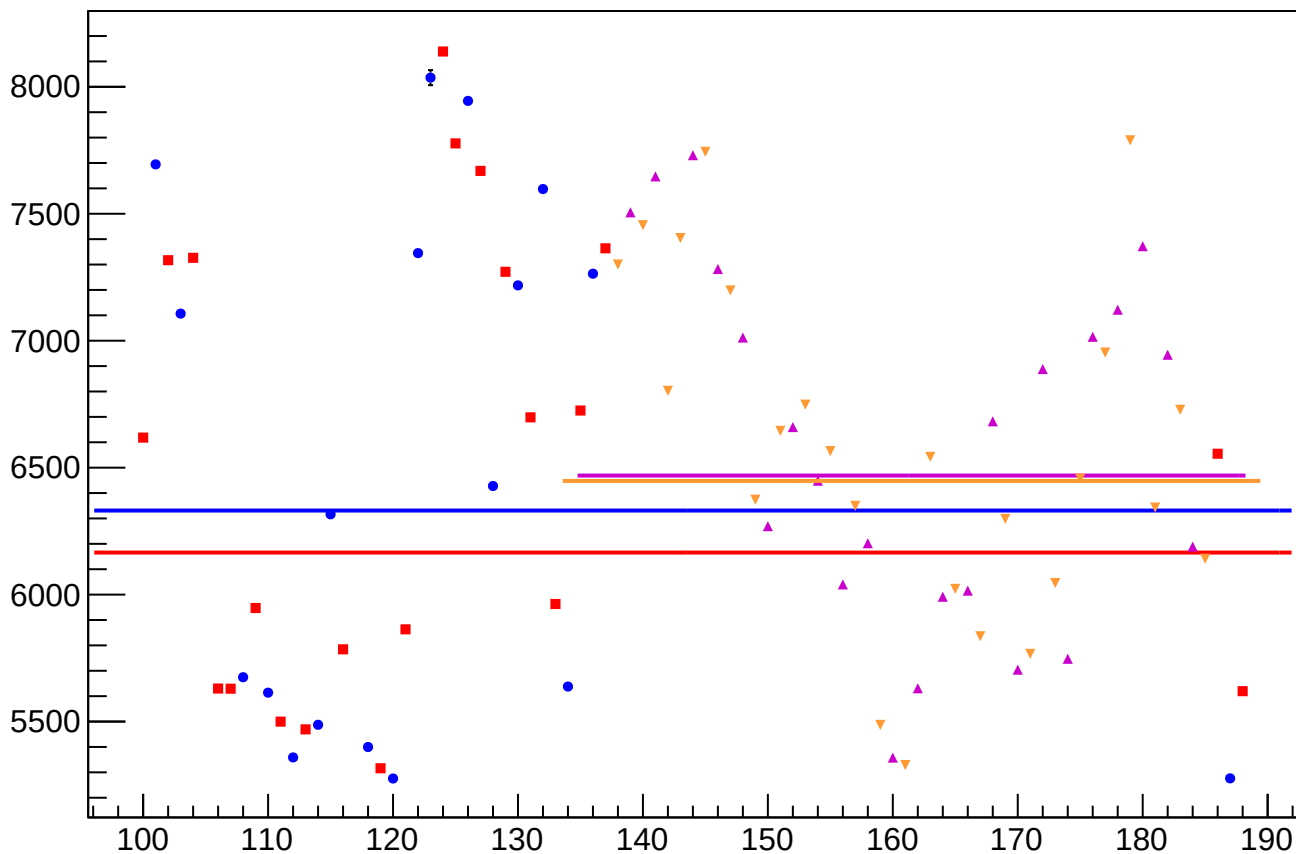
Right: 5.051 ± 1.615 $\chi^2/\text{NDF}: 147.5/38$

In: -2.252 ± 1.322 $\chi^2/\text{NDF}: 132.7/40$

Out: -4.352 ± 1.240 $\chi^2/\text{NDF}: 99.9/45$

All: -3.369 ± 0.904 $\chi^2/\text{NDF}: 234.0/86$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6331.092 ± 1.732 $\chi^2/\text{NDF}: 297964.3/17$

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

Right Out: 6165.623 ± 1.520 $\chi^2/\text{NDF}: 262274.9/20$

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

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

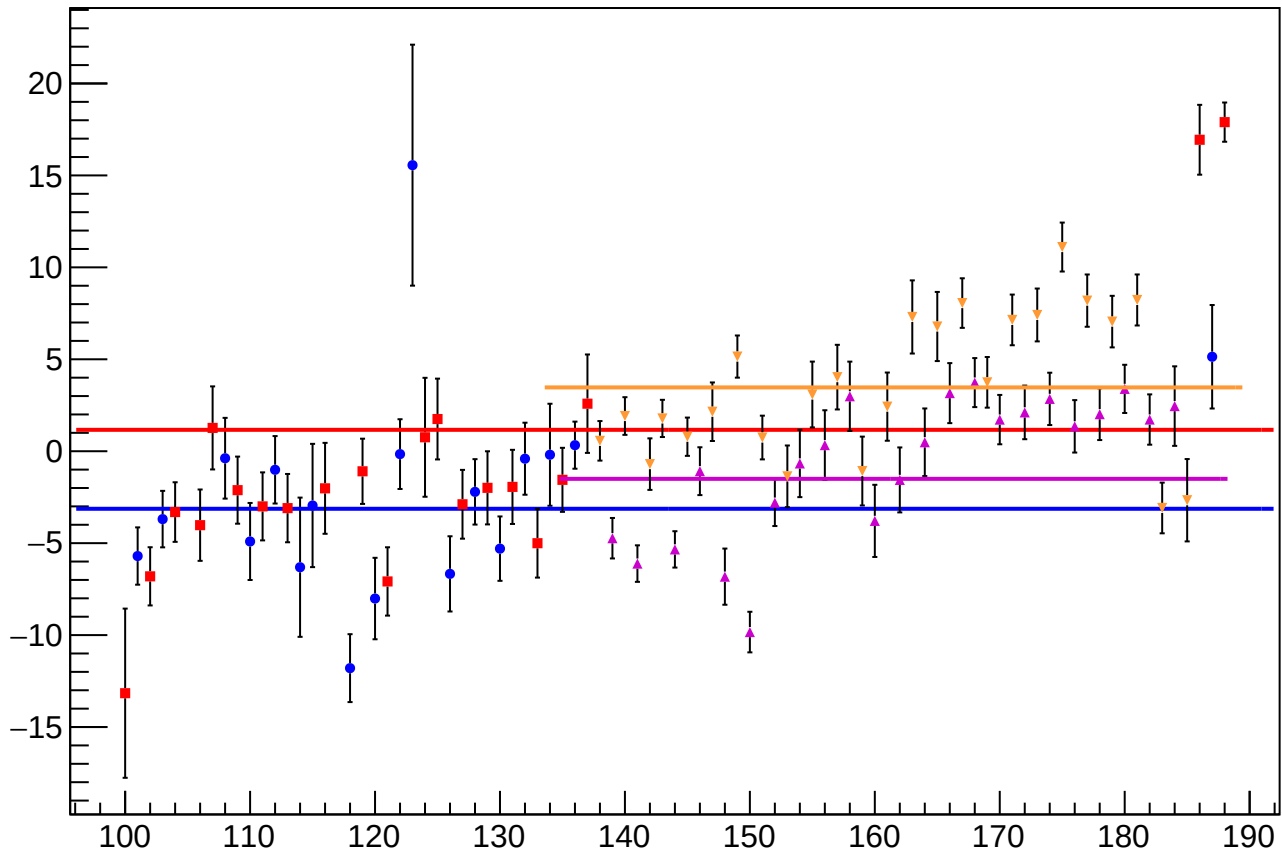
Right: 6237.617 ± 1.142 $\chi^2/\text{NDF}: 565396.8/38$

In: 6428.742 ± 0.935 $\chi^2/\text{NDF}: 685776.9/40$

Out: 6353.805 ± 0.877 $\chi^2/\text{NDF}: 656928.7/45$

All: 6388.878 ± 0.640 $\chi^2/\text{NDF}: 1346123.8/86$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.130 ± 0.470 $\chi^2/\text{NDF}: 68.4/17$

Left Out: 3.470 ± 0.276 $\chi^2/\text{NDF}: 176.0/24$

Right Out: 1.164 ± 0.410 $\chi^2/\text{NDF}: 424.6/20$

Left In: -1.502 ± 0.291 $\chi^2/\text{NDF}: 202.7/22$

Left: 1.109 ± 0.200 $\chi^2/\text{NDF}: 532.4/47$

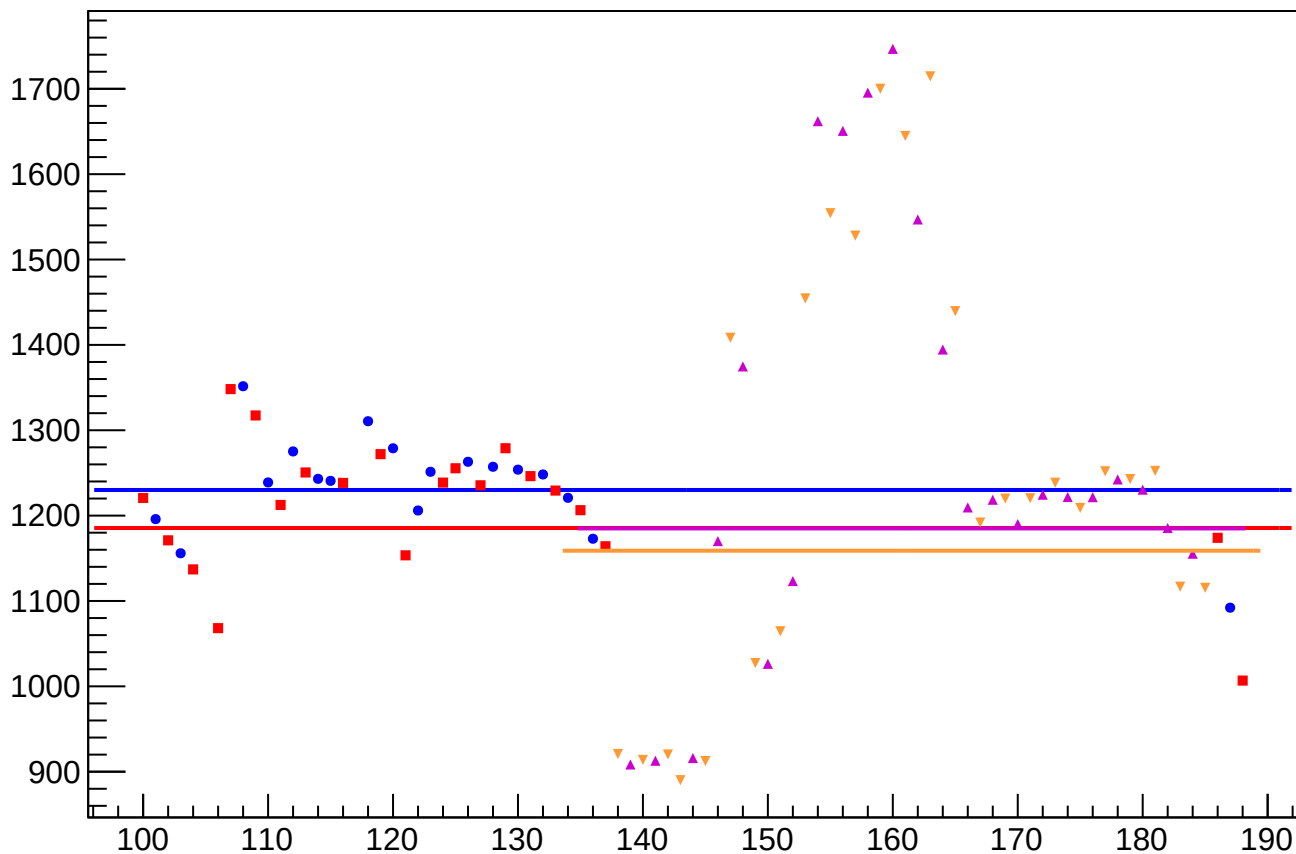
Right: -0.695 ± 0.309 $\chi^2/\text{NDF}: 540.5/38$

In: -1.953 ± 0.247 $\chi^2/\text{NDF}: 279.8/40$

Out: 2.750 ± 0.229 $\chi^2/\text{NDF}: 622.3/45$

All: 0.576 ± 0.168 $\chi^2/\text{NDF}: 1096.9/86$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1230.027 ± 0.332 χ^2/NDF : 28496.6/17

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

Right Out: 1185.496 ± 0.290 χ^2/NDF : 107327.0/20

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

Left: 1171.274 ± 0.142 χ^2/NDF : 2609306.9/47

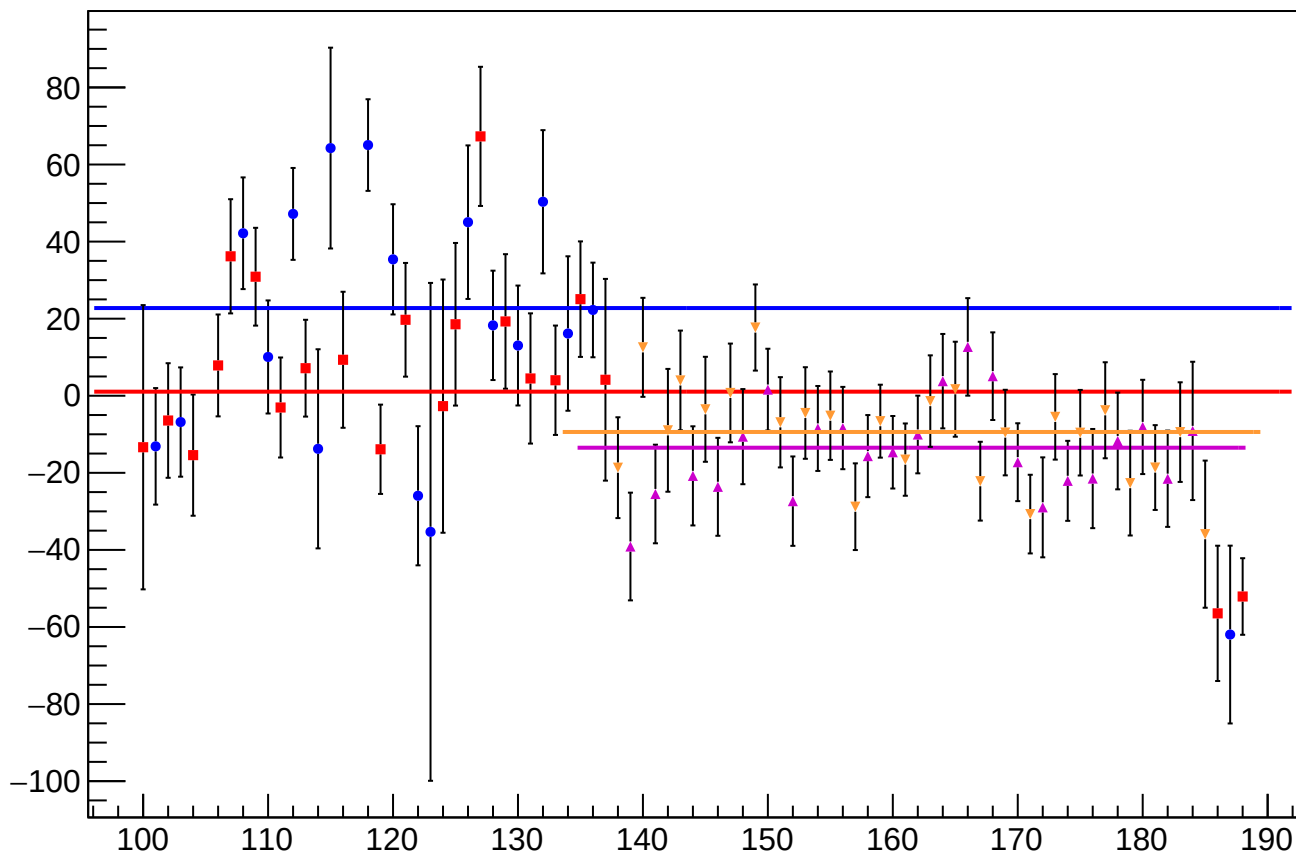
Right: 1204.770 ± 0.218 χ^2/NDF : 146021.7/38

In: 1197.444 ± 0.175 χ^2/NDF : 1232240.6/40

Out: 1167.198 ± 0.162 χ^2/NDF : 1523534.7/45

All: 1181.184 ± 0.119 χ^2/NDF : 2771878.8/86

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 22.756 $\pm$ 3.792 χ^2 /NDF: 60.3/17

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

Right Out: 1.061 $\pm$ 3.322 χ^2 /NDF: 74.0/20

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

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

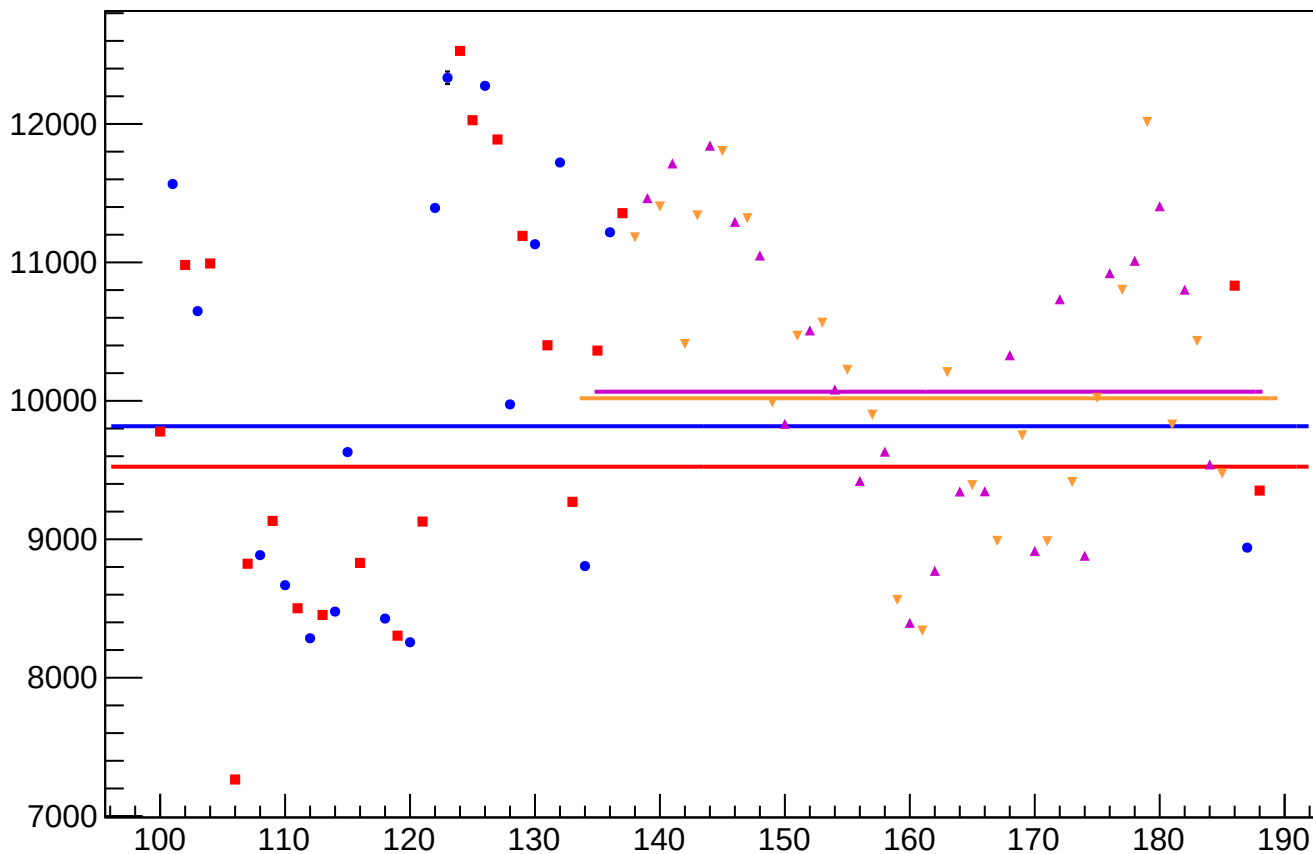
Right: 10.482 $\pm$ 2.499 χ^2 /NDF: 152.9/38

In: -2.855 $\pm$ 2.054 χ^2 /NDF:146.4/40

Out: -5.893 $\pm$ 1.923 χ^2 /NDF:106.9/45

All: -4.474 $\pm$ 1.404 χ^2 /NDF: 254.5/86

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9816.612 $\pm$ 2.681 χ^2/NDF : 262078.0/17

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

Right Out: 9524.317 $\pm$ 2.349 χ^2/NDF : 286444.4/20

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

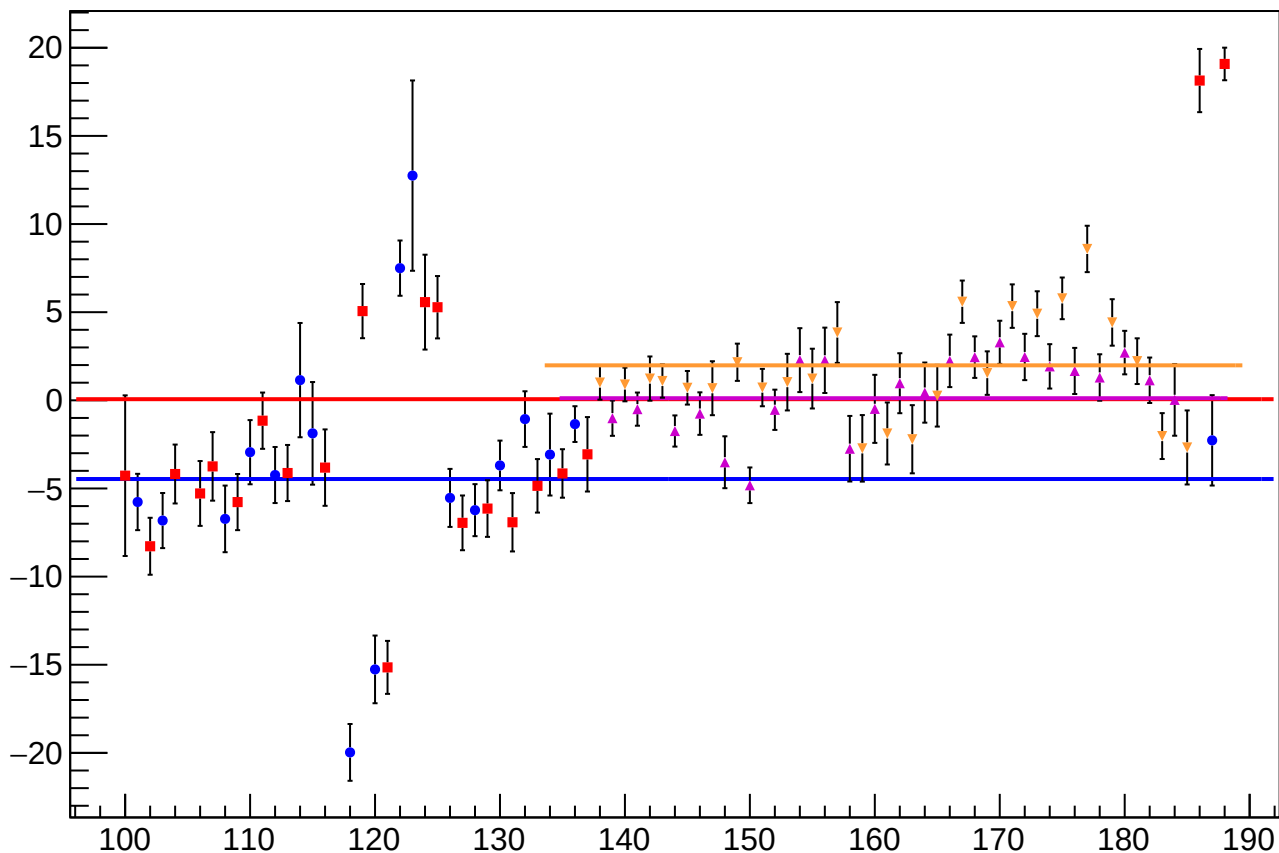
Right: 9651.250 $\pm$ 1.767 χ^2/NDF : 555246.1/38

In: 9992.788 $\pm$ 1.452 χ^2/NDF : 626056.4/40

Out: 9852.935 $\pm$ 1.360 χ^2/NDF : 660412.5/45

All: 9918.280 $\pm$ 0.993 χ^2/NDF : 1291410.8/86

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.46 ± 0.40 χ^2/NDF : 218.9/17

Left Out: 1.98 ± 0.25 χ^2/NDF : 101.2/24

Right Out: 0.06 ± 0.35 χ^2/NDF : 796.8/20

Left In: 0.12 ± 0.26 χ^2/NDF : 67.6/22

Left: 1.10 ± 0.18 χ^2/NDF : 194.2/47

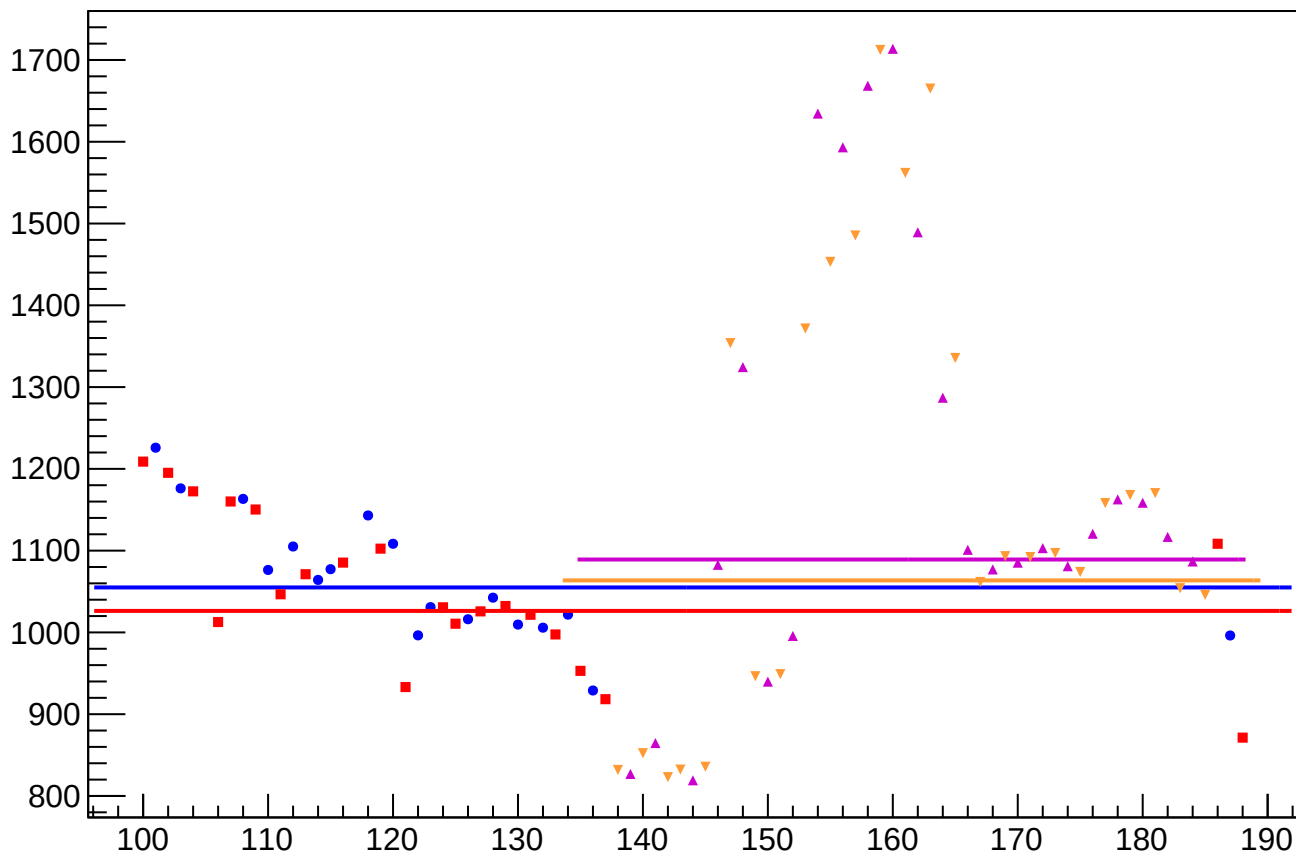
Right: -1.91 ± 0.26 χ^2/NDF : 1086.6/38

In: -1.28 ± 0.22 χ^2/NDF : 375.8/40

Out: 1.33 ± 0.20 χ^2/NDF : 917.3/45

All: 0.12 ± 0.15 χ^2/NDF : 1367.0/86

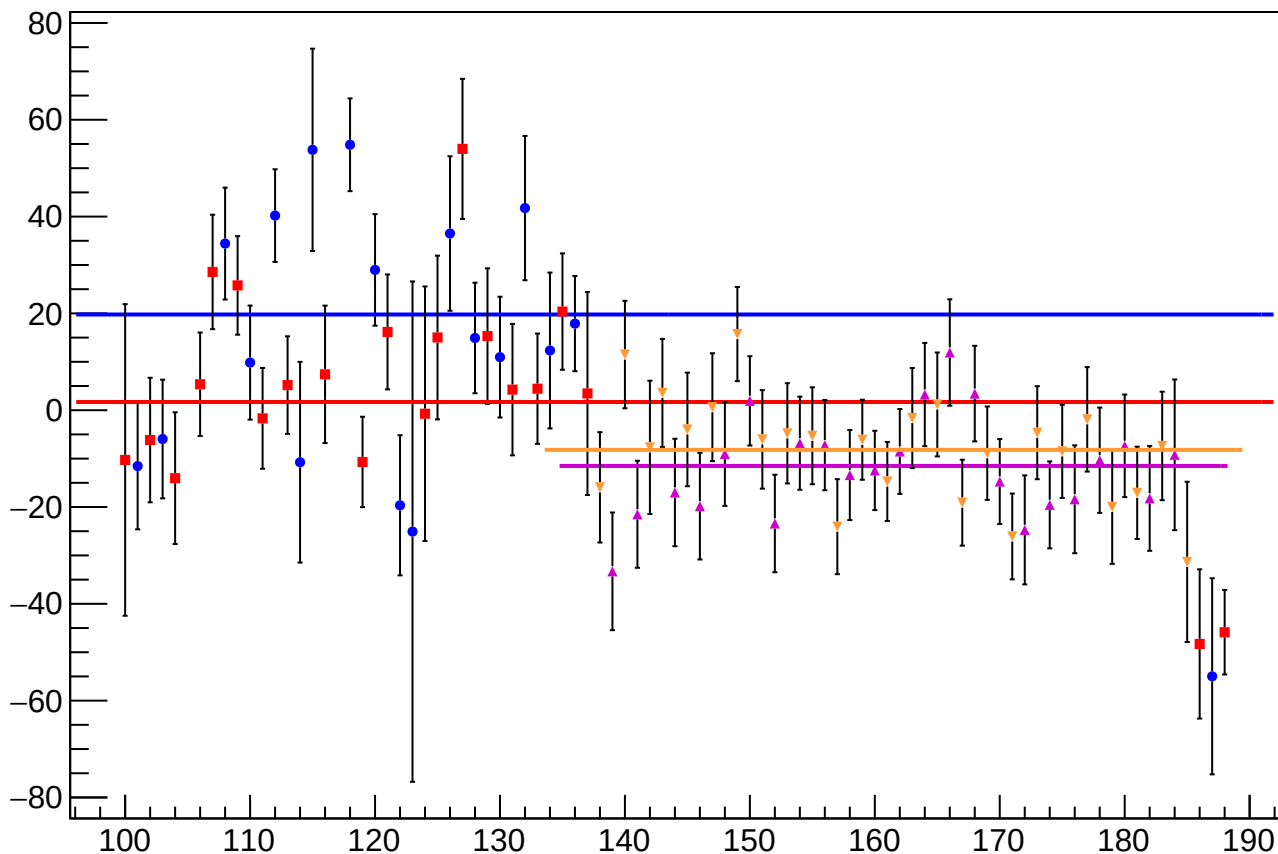
diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1054.999 $\pm$ 0.286 χ^2/NDF : 91836.9/17
 Left Out: 1063.600 $\pm$ 0.180 χ^2/NDF : 1617376.3/24
 Right Out: 1026.292 $\pm$ 0.252 χ^2/NDF : 150357.0/20
 Left In: 1089.154 $\pm$ 0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2/NDF : 3057378.7/47
 Right: 1038.834 $\pm$ 0.189 χ^2/NDF : 247885.7/38
 In: 1078.672 $\pm$ 0.158 χ^2/NDF : 1532232.9/40
 Out: 1050.947 $\pm$ 0.146 χ^2/NDF : 1782274.8/45
 All: 1063.746 $\pm$ 0.107 χ^2/NDF : 3331048.1/86

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 19.773 ± 3.080 $\chi^2/\text{NDF}: 61.8/17$

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

Right Out: 1.697 ± 2.721 $\chi^2/\text{NDF}: 73.7/20$

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

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

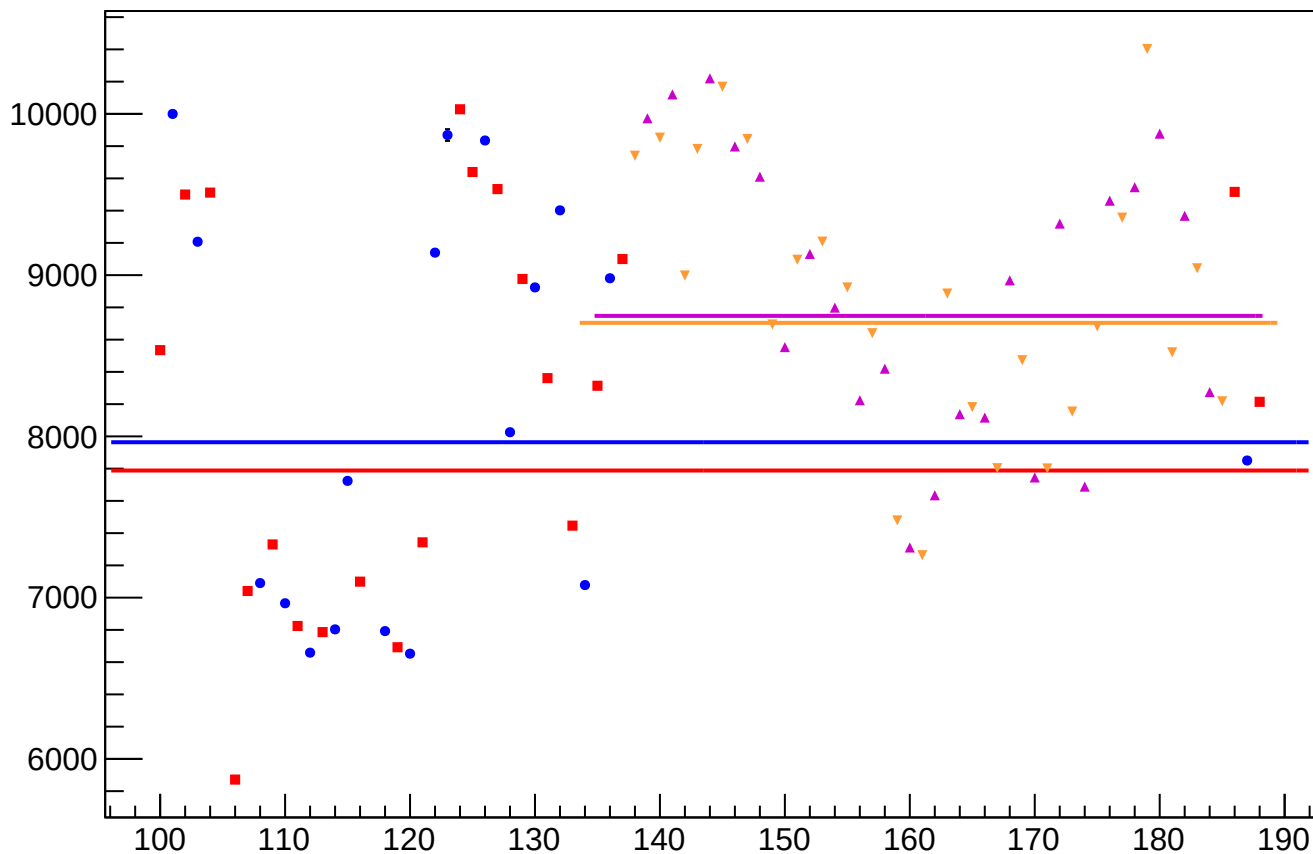
Right: 9.623 ± 2.039 $\chi^2/\text{NDF}: 154.9/38$

In: -1.440 ± 1.748 $\chi^2/\text{NDF}: 152.9/40$

Out: -4.617 ± 1.637 $\chi^2/\text{NDF}: 108.3/45$

All: -3.132 ± 1.195 $\chi^2/\text{NDF}: 262.9/86$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7963.771 $\pm$ 2.178 χ^2/NDF : 295724.2/17

Left Out: 8704.193 $\pm$ 1.449 χ^2/NDF : 332364.3/24

Right Out: 7788.412 $\pm$ 1.924 χ^2/NDF : 345742.5/20

Left In: 8747.415 $\pm$ 1.501 χ^2/NDF : 347110.4/22

Left: 8725.041 $\pm$ 1.042 χ^2/NDF : 679904.0/47

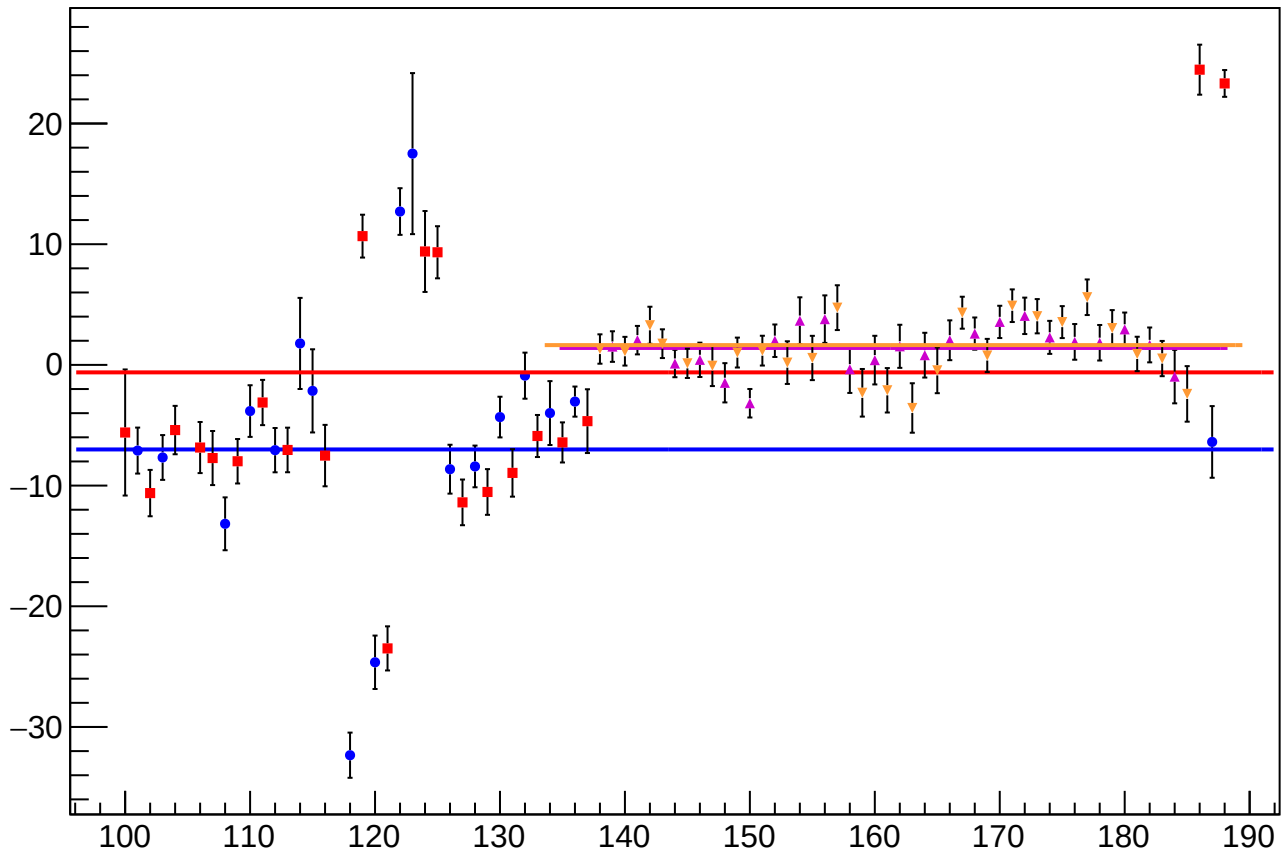
Right: 7865.299 $\pm$ 1.442 χ^2/NDF : 645108.1/38

In: 8495.080 $\pm$ 1.236 χ^2/NDF : 730634.3/40

Out: 8372.926 $\pm$ 1.157 χ^2/NDF : 822672.5/45

All: 8430.006 $\pm$ 0.845 χ^2/NDF : 1558512.6/86

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.006 ± 0.481 χ^2/NDF : 407.3/17

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

Right Out: -0.620 ± 0.422 χ^2/NDF : 1030.3/20

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

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

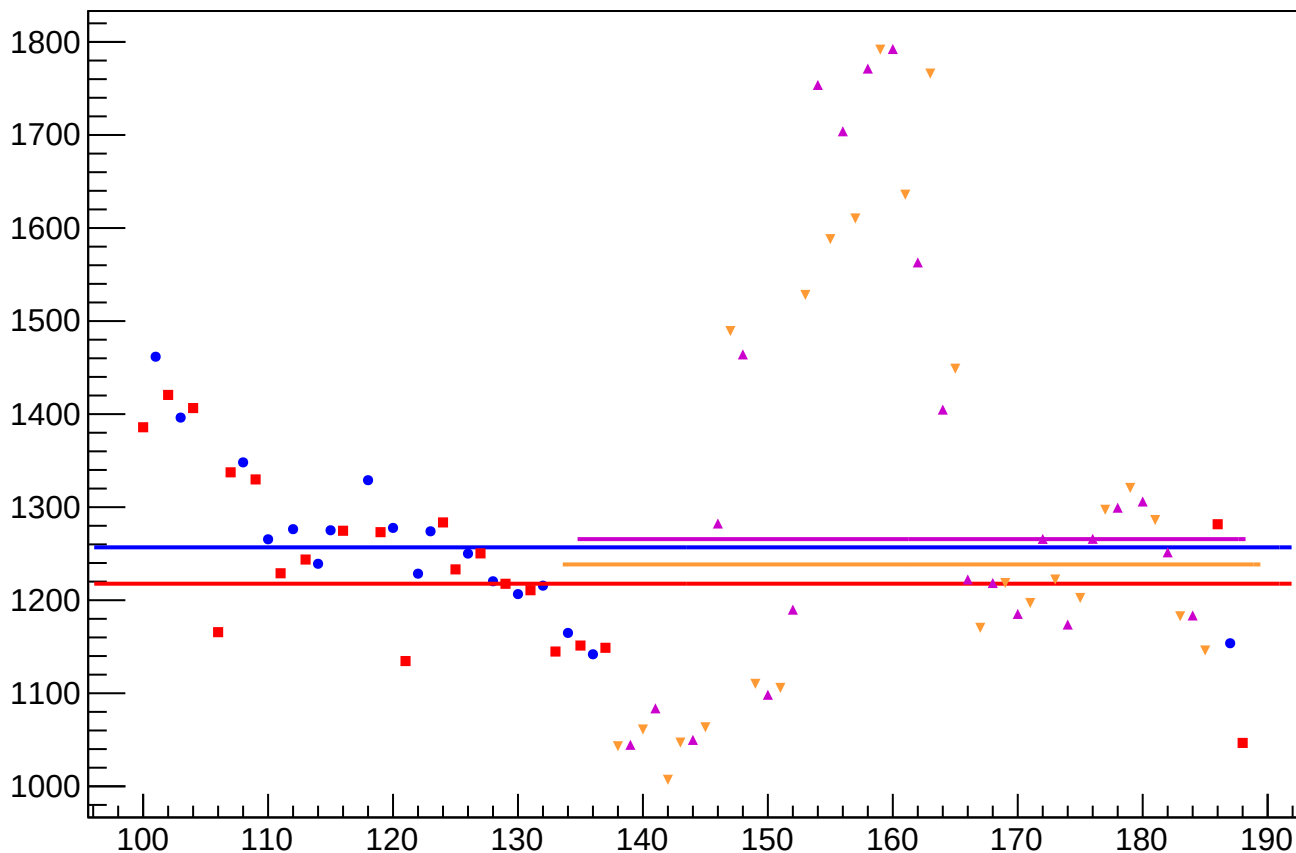
Right: -3.398 ± 0.317 χ^2/NDF : 1537.4/38

In: -1.055 ± 0.260 χ^2/NDF : 658.1/40

Out: 0.902 ± 0.241 χ^2/NDF : 1101.0/45

All: -0.003 ± 0.177 χ^2/NDF : 1789.6/86

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1256.828 ± 0.340 $\chi^2/\text{NDF}: 67291.9/17$

Left Out: 1238.437 ± 0.208 $\chi^2/\text{NDF}: 965173.0/24$

Right Out: 1217.749 ± 0.298 $\chi^2/\text{NDF}: 123036.6/20$

Left In: 1265.673 ± 0.218 $\chi^2/\text{NDF}: 845157.0/22$

Left: 1251.361 ± 0.151 $\chi^2/\text{NDF}: 1818496.6/47$

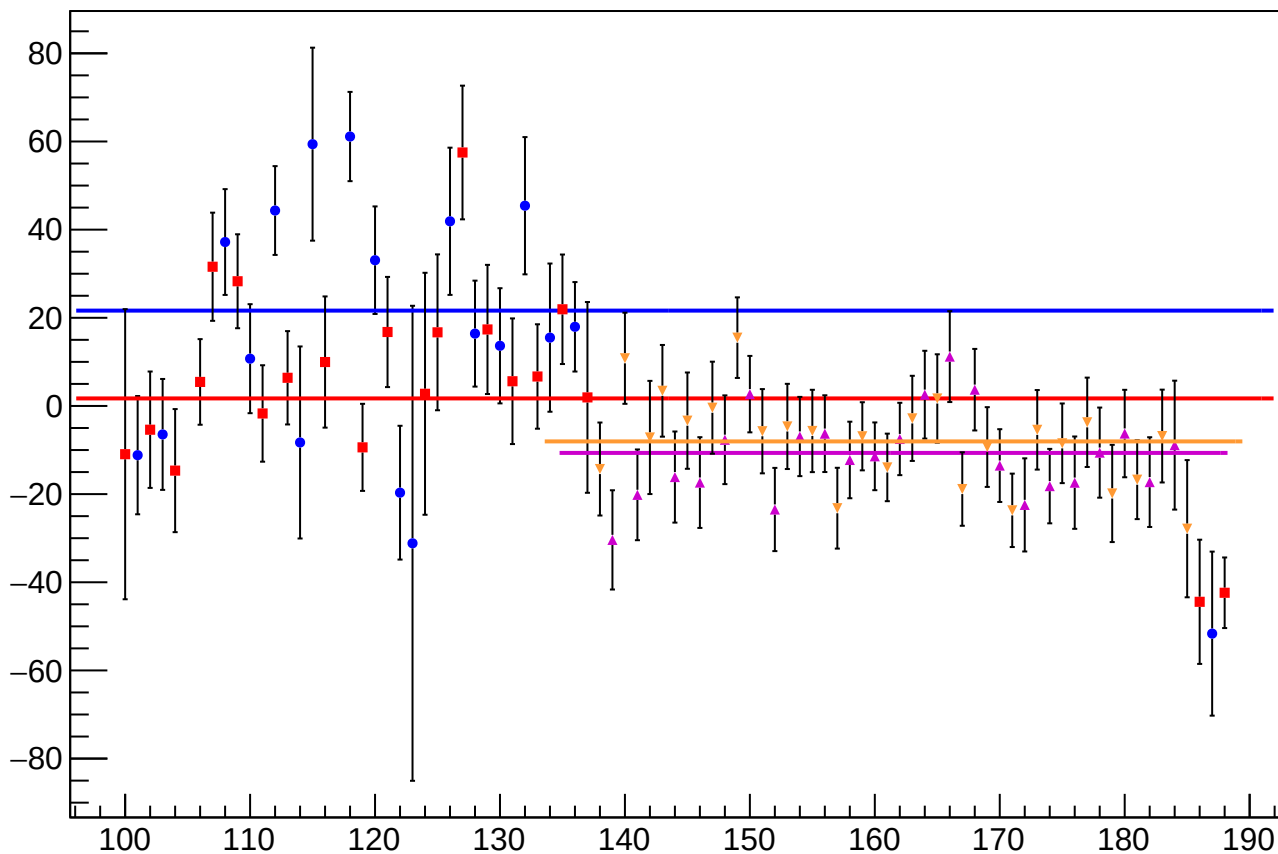
Right: 1234.749 ± 0.224 $\chi^2/\text{NDF}: 197798.6/38$

In: 1263.087 ± 0.184 $\chi^2/\text{NDF}: 912928.1/40$

Out: 1231.683 ± 0.170 $\chi^2/\text{NDF}: 1091451.1/45$

All: 1246.199 ± 0.125 $\chi^2/\text{NDF}: 2020080.5/86$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 21.632 $\pm$ 3.208 χ^2 /NDF: 68.0/17

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

Right Out: 1.709 $\pm$ 2.762 χ^2 /NDF: 76.8/20

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

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

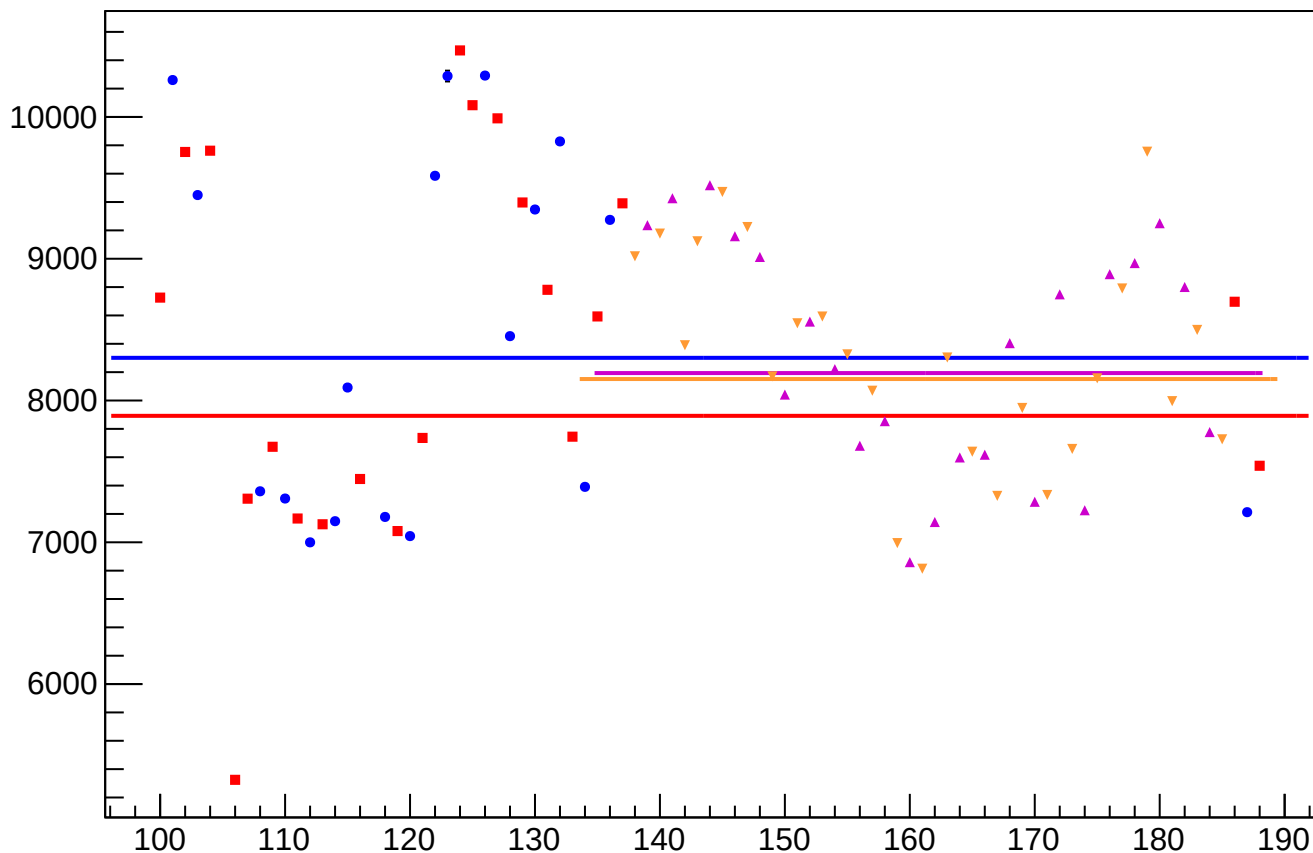
Right: 10.191 $\pm$ 2.093 χ^2 /NDF: 166.9/38

In: -1.696 $\pm$ 1.690 χ^2 /NDF: 162.6/40

Out: -4.869 $\pm$ 1.575 χ^2 /NDF: 111.5/45

All: -3.393 $\pm$ 1.152 χ^2 /NDF: 276.0/86

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8301.096 $\pm$ 2.268 χ^2/NDF : 278421.4/17

Left Out: 8151.489 $\pm$ 1.356 χ^2/NDF : 321803.3/24

Right Out: 7891.962 $\pm$ 1.953 χ^2/NDF : 399025.4/20

Left In: 8193.636 $\pm$ 1.405 χ^2/NDF : 338377.6/22

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

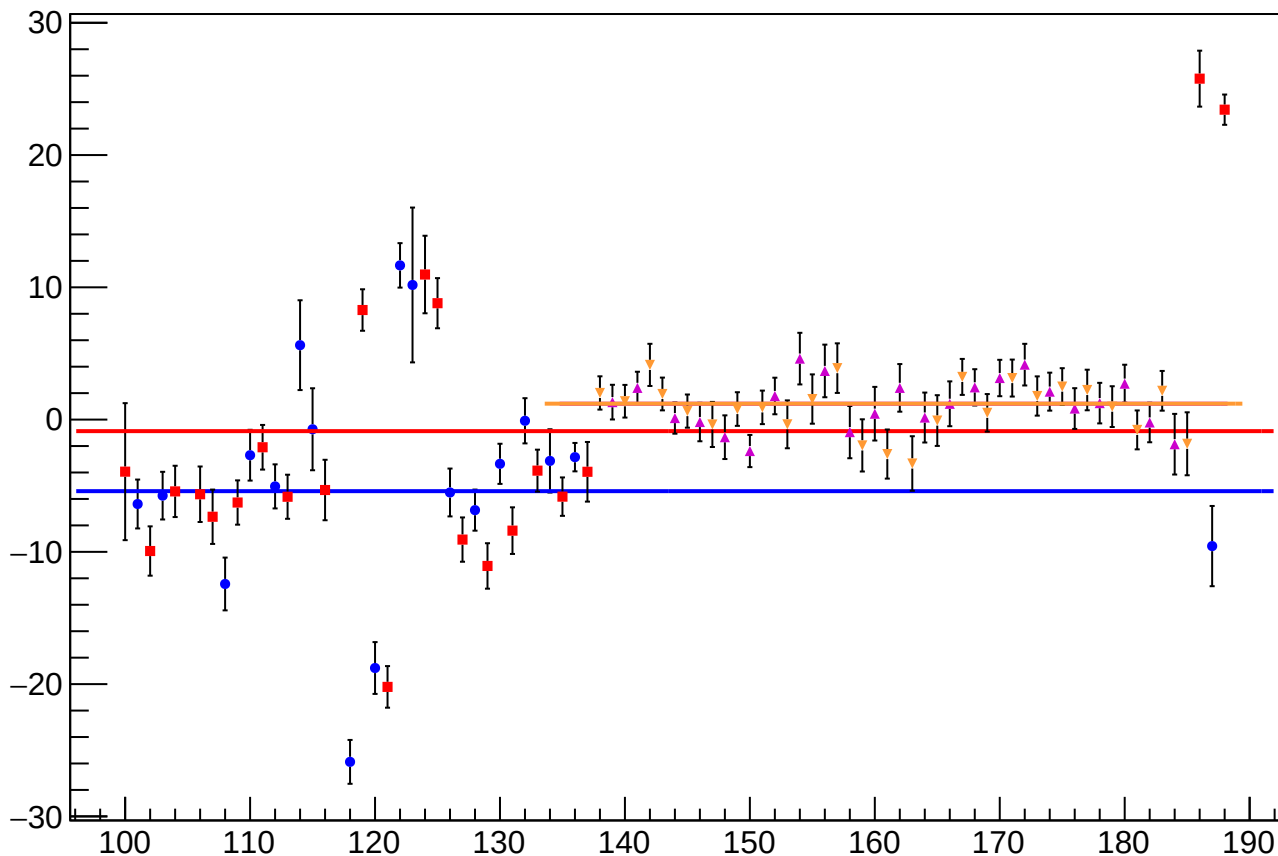
Right: 8066.146 $\pm$ 1.480 χ^2/NDF : 696133.2/38

In: 8223.450 $\pm$ 1.195 χ^2/NDF : 618421.0/40

Out: 8067.037 $\pm$ 1.114 χ^2/NDF : 732742.8/45

All: 8139.786 $\pm$ 0.815 χ^2/NDF : 1360332.9/86

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.411 $\pm$ 0.433 χ^2/NDF : 357.8/17

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

Right Out: -0.873 $\pm$ 0.389 χ^2/NDF : 999.8/20

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

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

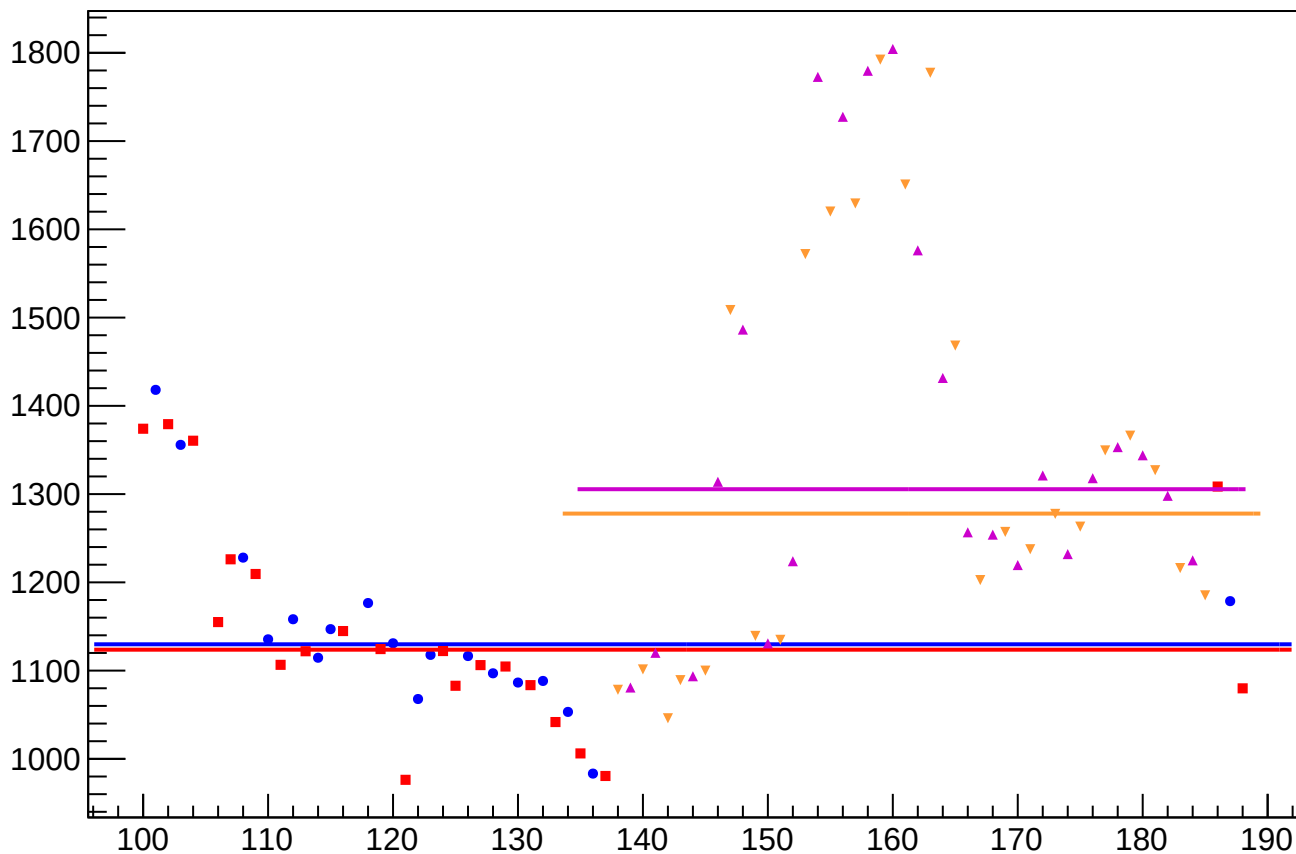
Right: -2.902 $\pm$ 0.290 χ^2/NDF : 1418.3/38

In: -1.118 $\pm$ 0.256 χ^2/NDF :540.1/40

Out: 0.422 $\pm$ 0.239 χ^2/NDF :1047.5/45

All: -0.293 $\pm$ 0.175 χ^2/NDF : 1606.9/86

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1129.816 $\pm$ 0.306 χ^2 /NDF: 133608.5/17

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

Right Out: 1123.709 $\pm$ 0.275 χ^2 /NDF: 147825.8/20

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

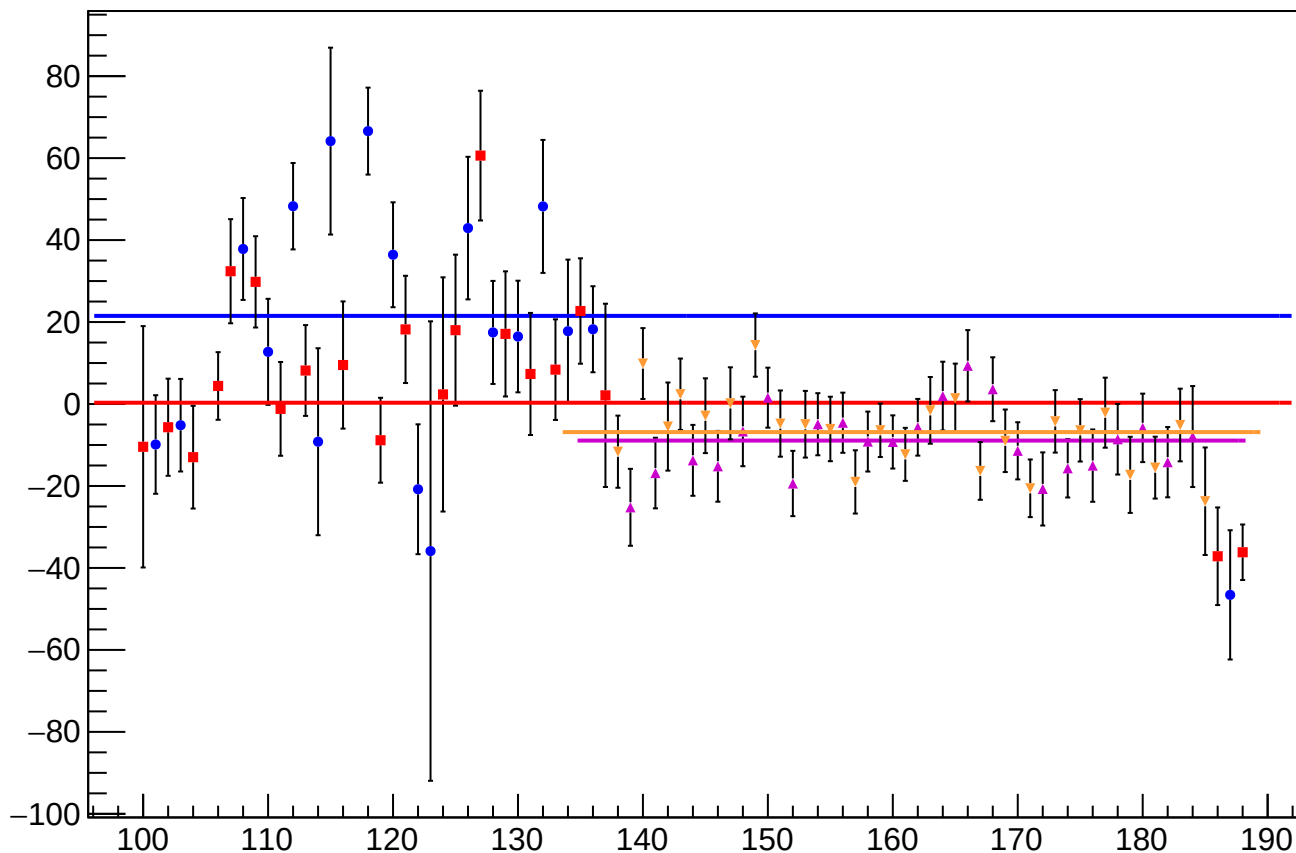
Right: 1126.439 $\pm$ 0.205 χ^2 /NDF: 281654.2/38

In: 1243.962 $\pm$ 0.181 χ^2 /NDF: 1107876.6/40

Out: 1219.909 $\pm$ 0.169 χ^2 /NDF: 1221536.7/45

All: 1231.085 $\pm$ 0.124 χ^2 /NDF: 2338834.5/86

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 21.504 $\pm$ 3.252 χ^2 /NDF: 77.2/17

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

Right Out: 0.313 $\pm$ 2.680 χ^2 /NDF: 77.9/20

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

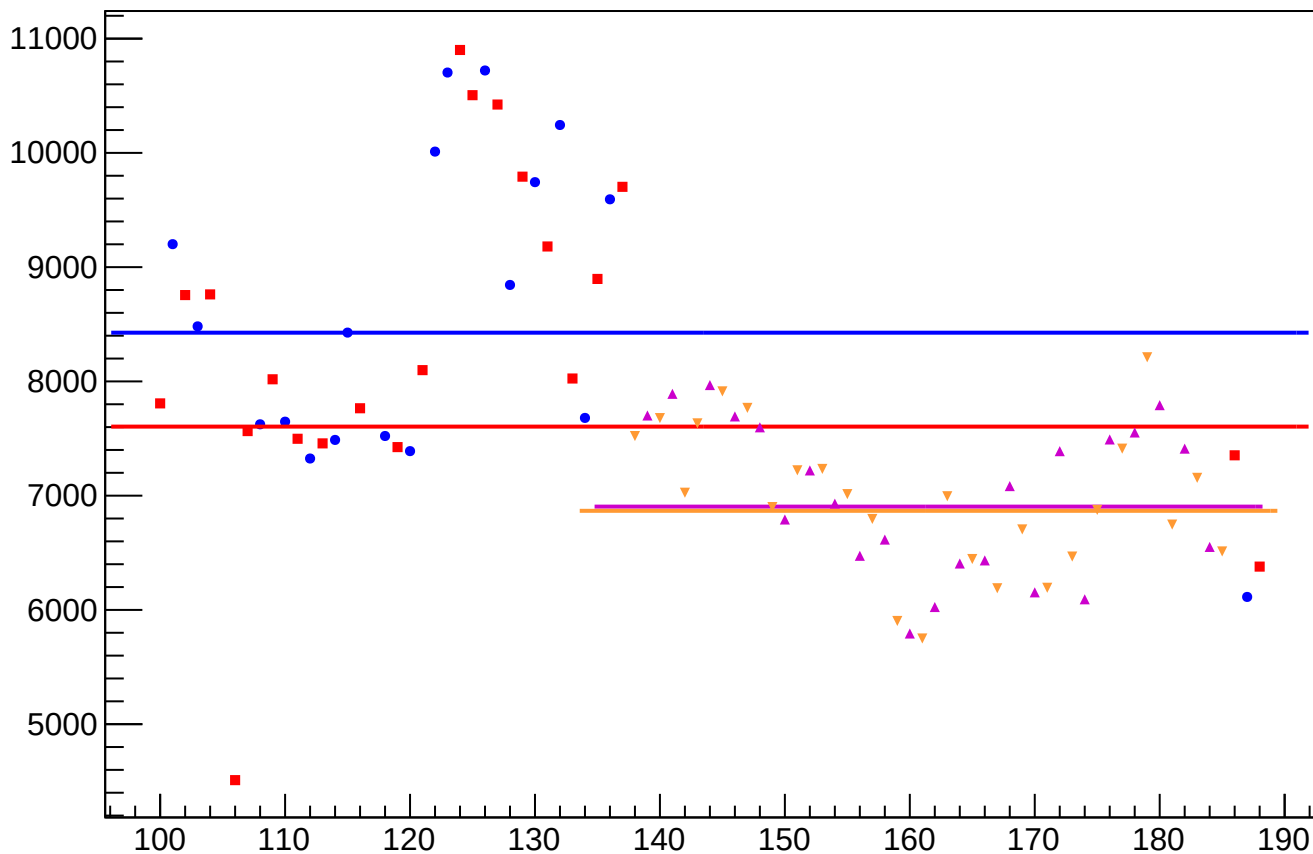
Right: 8.884 $\pm$ 2.069 χ^2 /NDF: 180.4/38

In: -2.549 $\pm$ 1.489 χ^2 /NDF:168.2/40

Out: -4.944 $\pm$ 1.384 χ^2 /NDF:111.8/45

All: -3.834 $\pm$ 1.013 χ^2 /NDF: 281.4/86

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8426.418 ± 2.300 χ^2/NDF : 252313.6/17

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

Right Out: 7604.409 ± 1.895 χ^2/NDF : 633840.3/20

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

Left: 6885.088 ± 0.822 χ^2/NDF : 633306.5/47

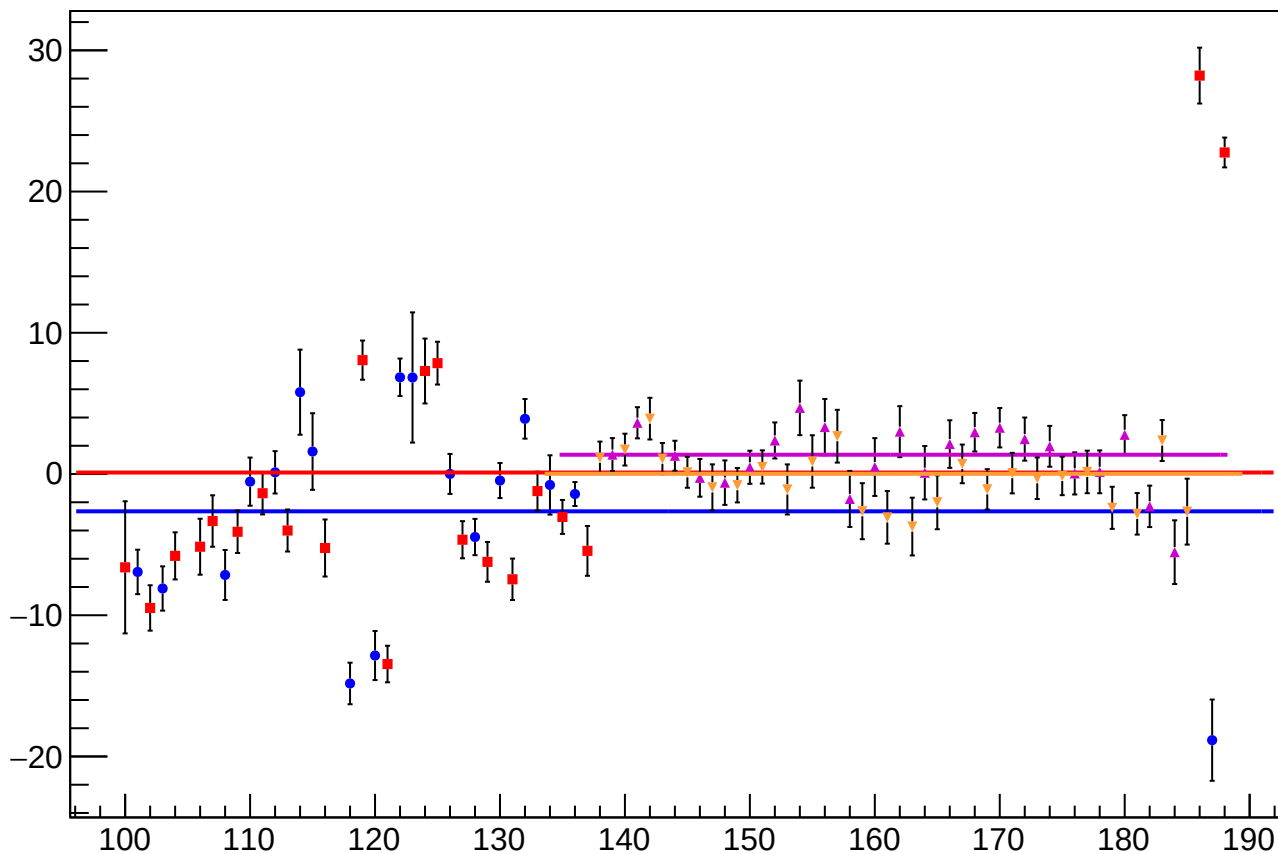
Right: 7936.894 ± 1.463 χ^2/NDF : 962230.3/38

In: 7223.018 ± 1.053 χ^2/NDF : 924572.1/40

Out: 7063.762 ± 0.978 χ^2/NDF : 1051654.6/45

All: 7137.576 ± 0.717 χ^2/NDF : 1988507.1/86

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.642 ± 0.363 χ^2/NDF : 264.8/17

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

Right Out: 0.106 ± 0.335 χ^2/NDF : 1003.1/20

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

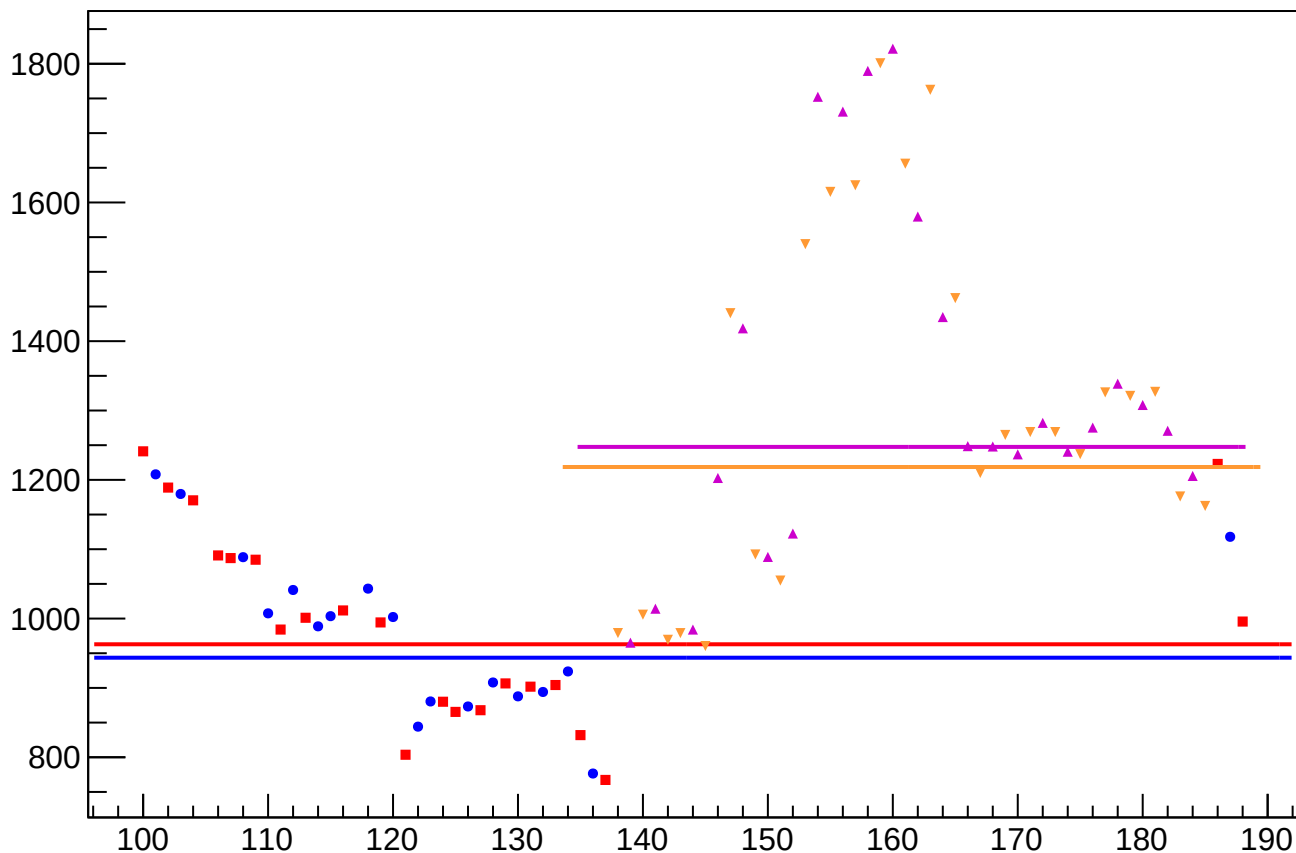
Right: -1.156 ± 0.246 χ^2/NDF : 1298.8/38

In: -0.294 ± 0.234 χ^2/NDF : 374.6/40

Out: 0.053 ± 0.219 χ^2/NDF : 1038.1/45

All: -0.109 ± 0.160 χ^2/NDF : 1413.8/86

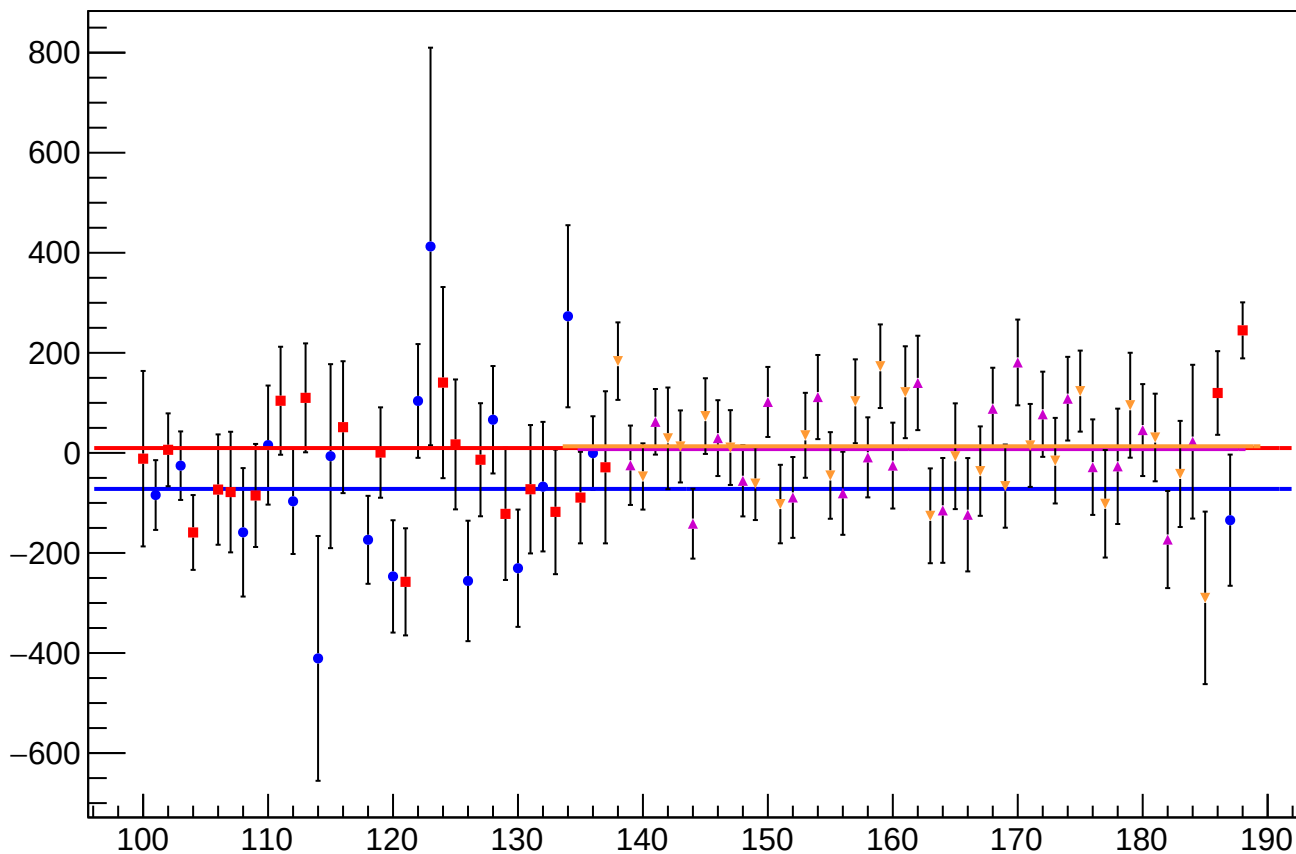
diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 943.558 $\pm$ 0.257 χ^2 /NDF: 249168.3/17
 Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24
 Right Out: 962.923 $\pm$ 0.237 χ^2 /NDF: 259213.0/20
 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: 954.027 $\pm$ 0.174 χ^2 /NDF: 511453.7/38
 In: 1121.619 $\pm$ 0.165 χ^2 /NDF:2142809.2/40
 Out: 1109.030 $\pm$ 0.155 χ^2 /NDF:2191129.5/45
 All: 1114.918 $\pm$ 0.113 χ^2 /NDF: 4337024.6/86

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -72.013 ± 25.485 χ^2/NDF : 21.8/17

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

Right Out: 9.664 ± 22.058 χ^2/NDF : 38.6/20

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

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

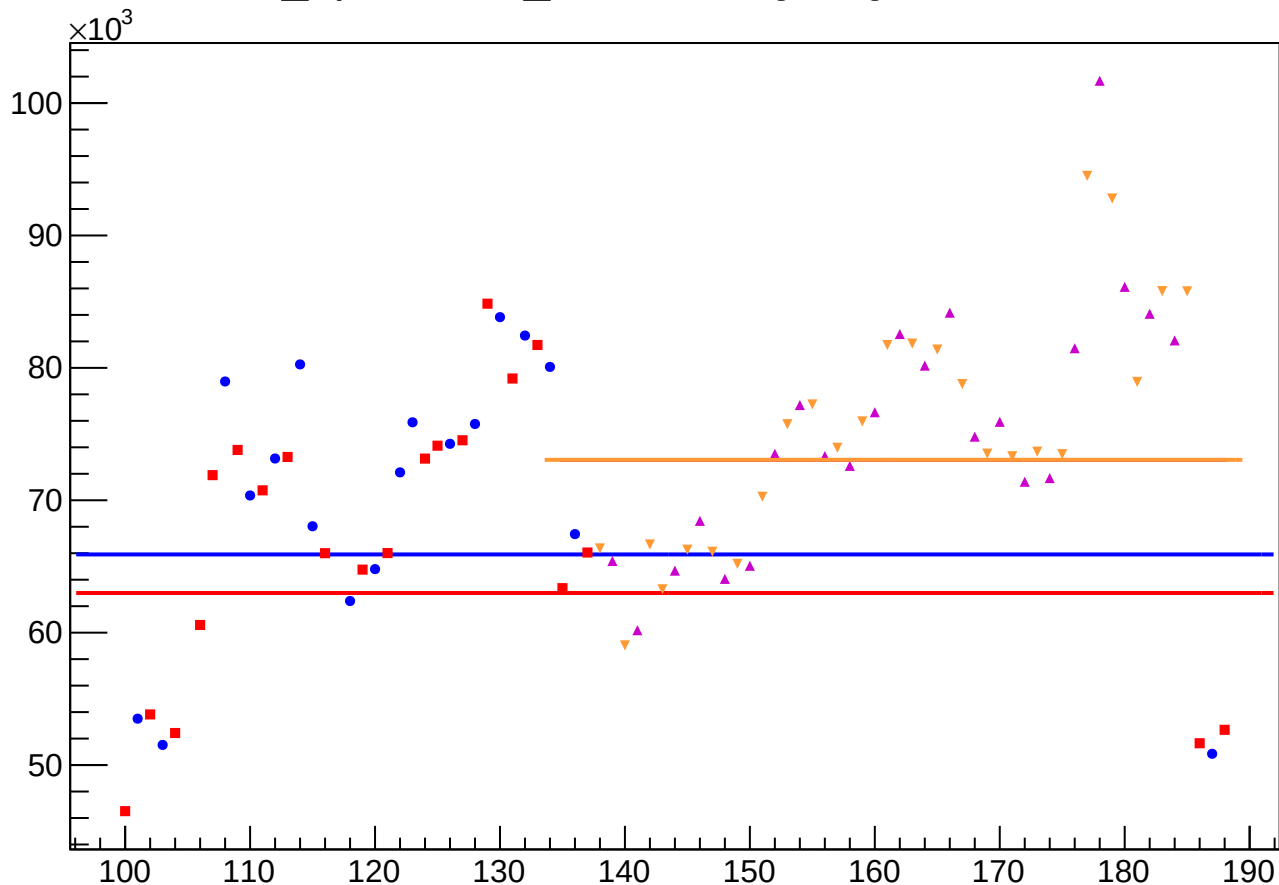
Right: -25.317 ± 16.679 χ^2/NDF : 66.3/38

In: -18.237 ± 14.522 χ^2/NDF : 56.5/40

Out: 11.872 ± 13.537 χ^2/NDF : 65.4/45

All: -2.127 ± 9.902 χ^2/NDF : 124.2/86

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 65908.732 $\pm$ 18.021 χ^2/NDF : 347468.0/17

Left Out: 73054.401 $\pm$ 12.124 χ^2/NDF : 473050.9/24

Right Out: 62997.134 $\pm$ 15.597 χ^2/NDF : 433686.1/20

Left In: 73045.500 $\pm$ 12.496 χ^2/NDF : 463525.5/22

Left: 73050.085 $\pm$ 8.701 χ^2/NDF : 936576.6/47

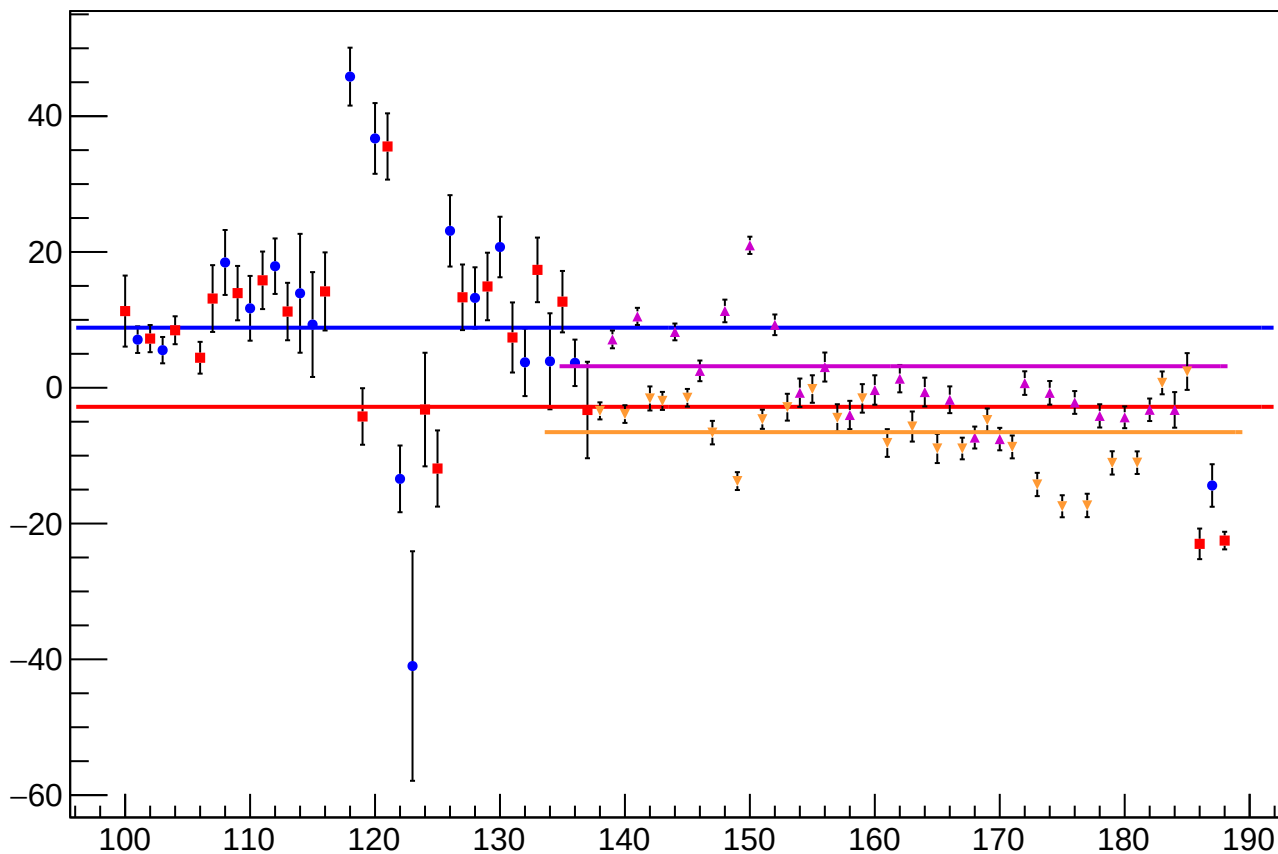
Right: 64244.128 $\pm$ 11.793 χ^2/NDF : 796078.3/38

In: 70728.249 $\pm$ 10.269 χ^2/NDF : 916907.4/40

Out: 69266.373 $\pm$ 9.572 χ^2/NDF : 1165910.0/45

All: 69946.074 $\pm$ 7.002 χ^2/NDF : 2093661.4/80

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 8.847 $\pm$ 0.904 χ^2/NDF : 220.7/17

Left Out: -6.537 $\pm$ 0.332 χ^2/NDF :252.7/24

Right Out: -2.808 $\pm$ 0.686 χ^2/NDF : 572.6/20

Left In: 3.171 $\pm$ 0.346 χ^2/NDF :487.3/22

Left: -1.892 $\pm$ 0.240 χ^2/NDF : 1149.5/47

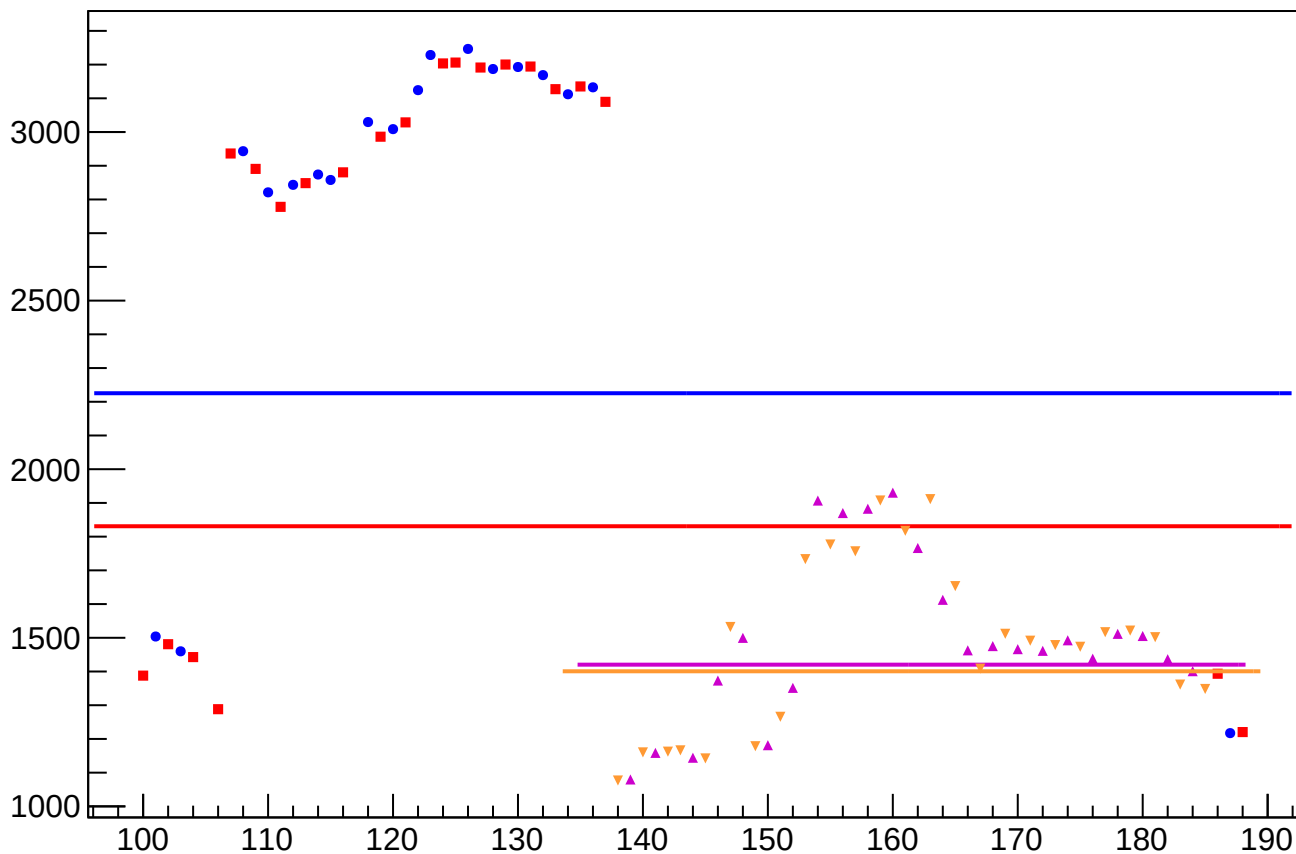
Right: 1.454 $\pm$ 0.547 χ^2/NDF : 898.7/38

In: 3.898 $\pm$ 0.324 χ^2/NDF :742.4/40

Out: -5.830 $\pm$ 0.299 χ^2/NDF :849.2/45

All: -1.353 $\pm$ 0.219 χ^2/NDF : 2079.7/86

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2225.324 $\pm$ 0.639 χ^2 /NDF: 1631007.8/17

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

Right Out: 1830.814 $\pm$ 0.485 χ^2 /NDF: 2572783.0/20

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF: 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

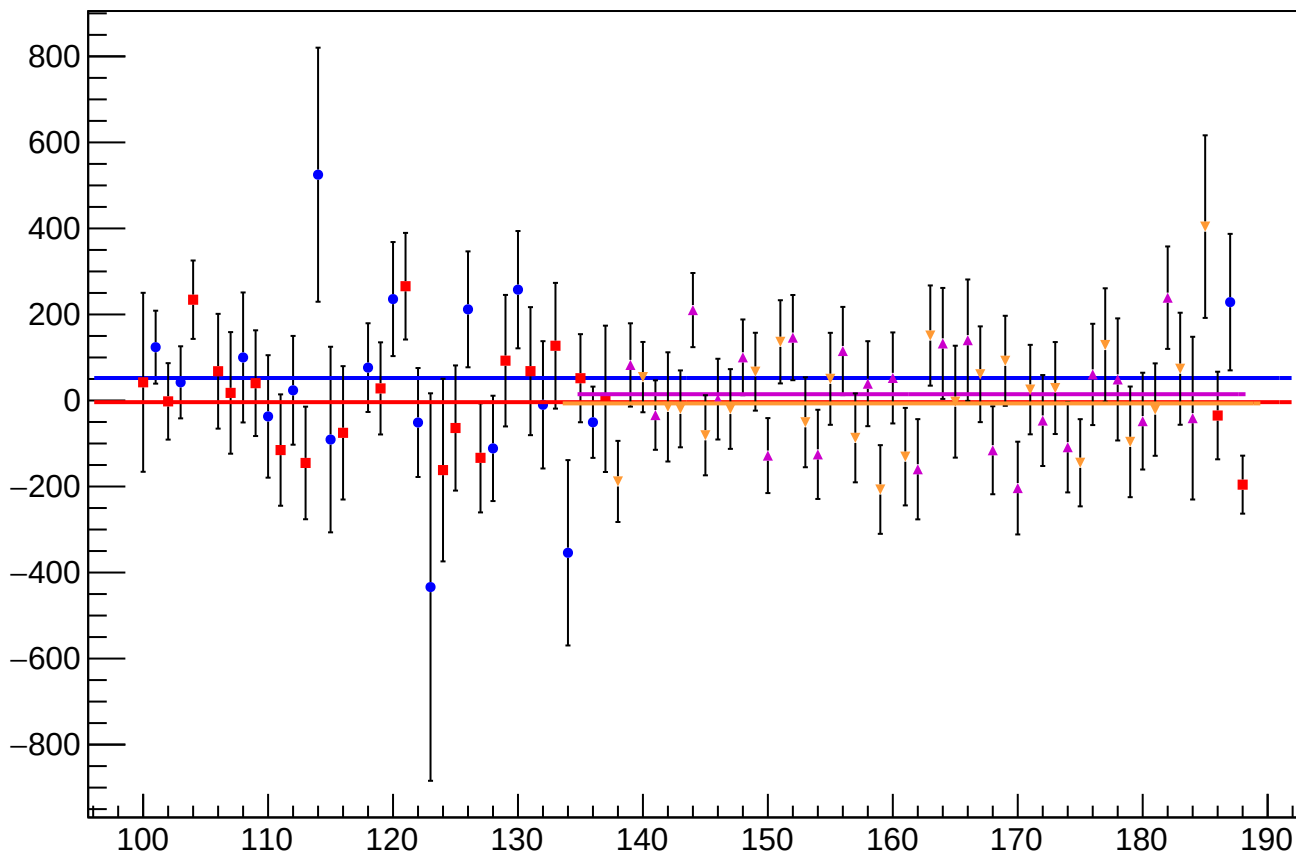
Right: 1975.068 $\pm$ 0.387 χ^2 /NDF: 4445396.8/38

In: 1523.379 $\pm$ 0.229 χ^2 /NDF: 3919077.4/40

Out: 1482.130 $\pm$ 0.211 χ^2 /NDF: 4247506.4/45

All: 1501.114 $\pm$ 0.155 χ^2 /NDF: 8184133.5/86

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 52.257 $\pm$ 29.926 χ^2 /NDF: 20.0/17

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

Right Out: -3.882 $\pm$ 26.108 χ^2 /NDF: 25.9/20

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

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

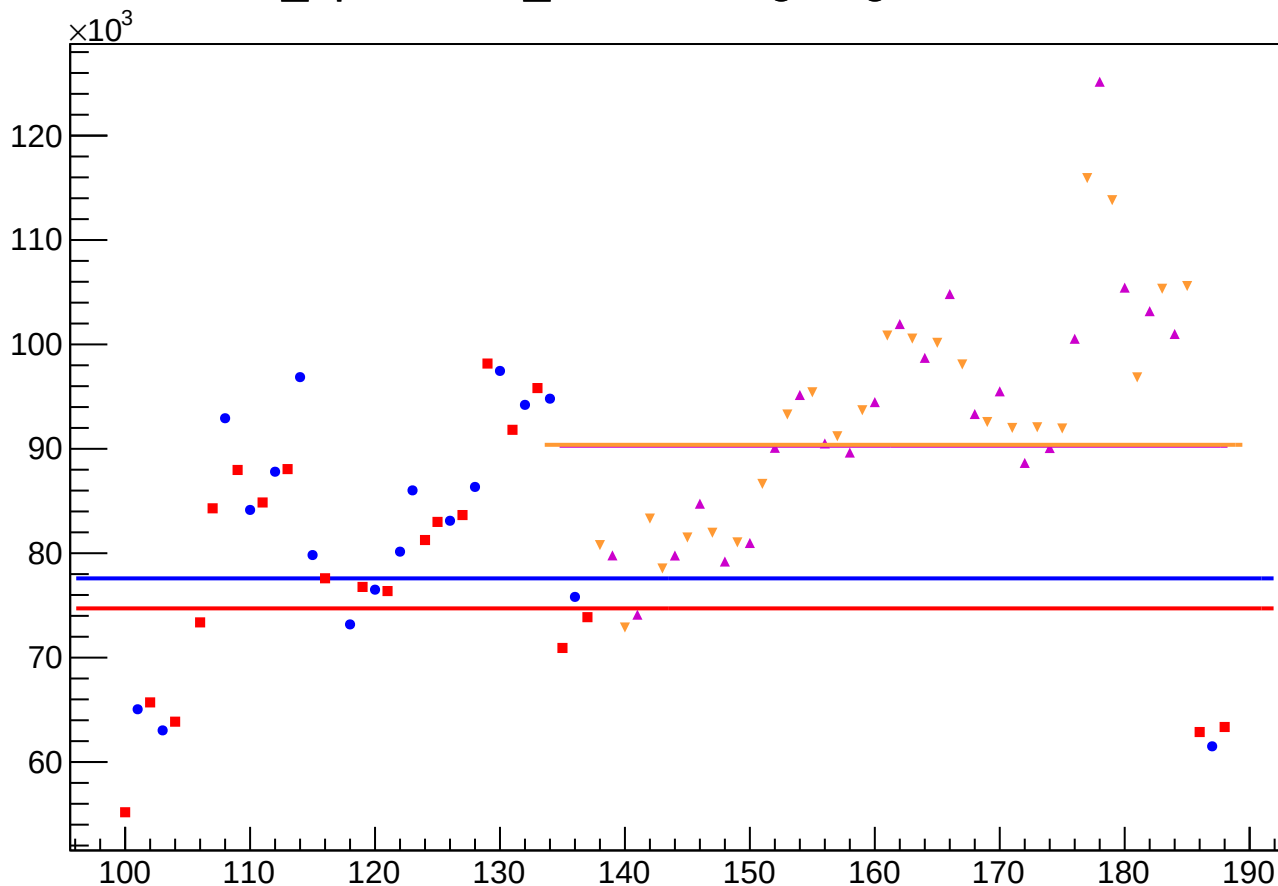
Right: 20.379 $\pm$ 19.674 χ^2 /NDF: 48.0/38

In: 27.698 $\pm$ 17.645 χ^2 /NDF: 50.9/40

Out: -5.633 $\pm$ 16.464 χ^2 /NDF: 50.6/45

All: 9.879 $\pm$ 12.038 χ^2 /NDF: 103.4/86

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 77590.135 $\pm$ 21.161 χ^2/NDF : 271596.2/17

Left Out: 90384.853 $\pm$ 15.000 χ^2/NDF : 461648.2/24

Right Out: 74715.931 $\pm$ 18.461 χ^2/NDF : 354153.9/20

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761 χ^2/NDF : 923003.7/47

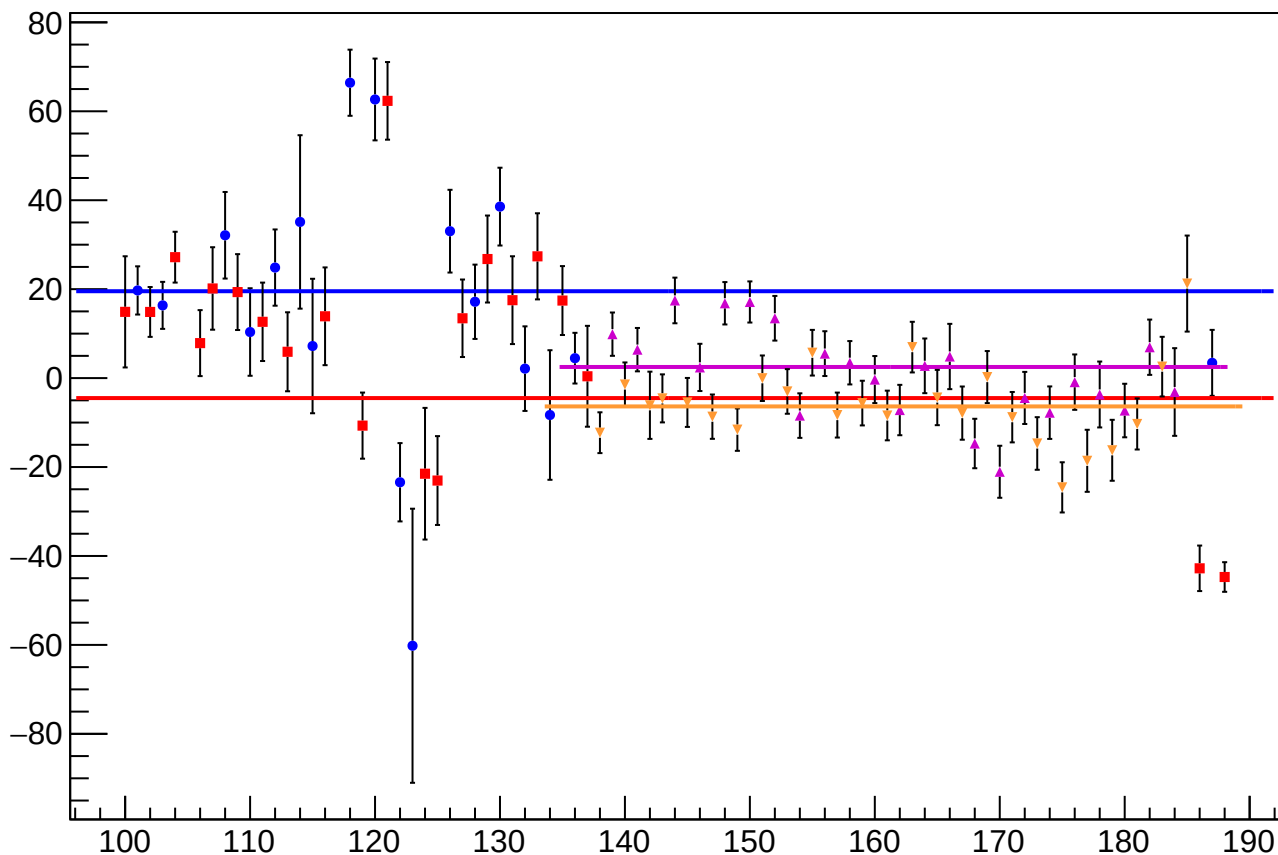
Right: 75958.072 $\pm$ 13.911 χ^2/NDF : 636225.6/38

In: 85877.390 $\pm$ 12.477 χ^2/NDF : 968033.3/40

Out: 84153.996 $\pm$ 11.642 χ^2/NDF : 1249719.9/45

All: 84956.082 $\pm$ 8.512 χ^2/NDF : 2227952.8/86

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 19.536 ± 1.966 $\chi^2/\text{NDF}: 122.4/17$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: -4.492 ± 1.603 $\chi^2/\text{NDF}: 375.1/20$

Left In: 2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

Left: -2.059 ± 0.806 $\chi^2/\text{NDF}: 154.1/47$

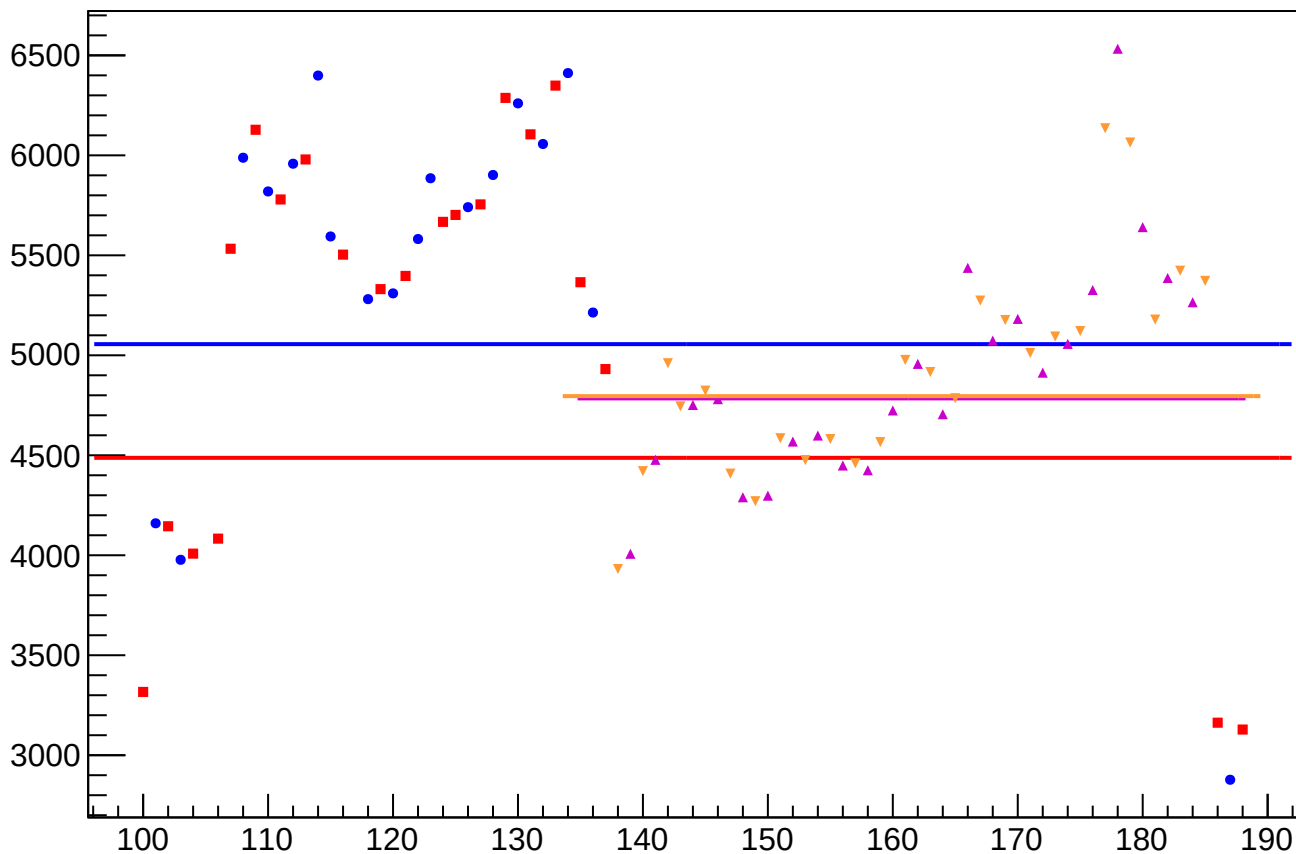
Right: 5.104 ± 1.242 $\chi^2/\text{NDF}: 587.3/38$

In: 6.878 ± 0.996 $\chi^2/\text{NDF}: 256.7/40$

Out: -5.751 ± 0.920 $\chi^2/\text{NDF}: 421.5/45$

All: 0.062 ± 0.676 $\chi^2/\text{NDF}: 764.9/86$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5055.802 ± 1.390 $\chi^2/\text{NDF}: 497257.0/17$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 4487.250 ± 1.133 $\chi^2/\text{NDF}: 1083833.1/20$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

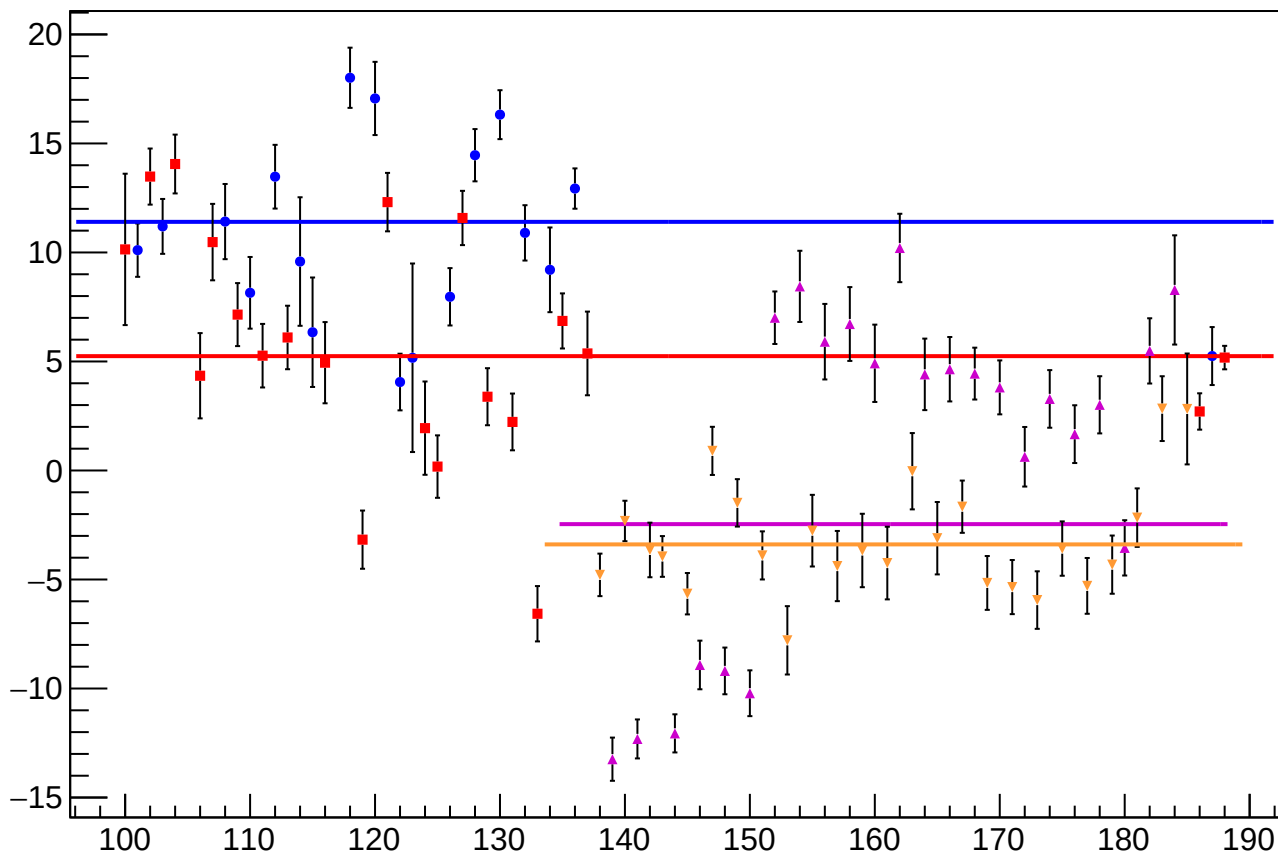
Right: 4714.310 ± 0.878 $\chi^2/\text{NDF}: 1681594.3/38$

In: 4854.165 ± 0.705 $\chi^2/\text{NDF}: 883088.6/40$

Out: 4694.130 ± 0.651 $\chi^2/\text{NDF}: 1494785.9/45$

All: 4767.795 ± 0.478 $\chi^2/\text{NDF}: 2405719.5/86$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.404 $\pm$ 0.334 χ^2 /NDF: 138.0/17

Left Out: -3.390 $\pm$ 0.252 χ^2 /NDF: 77.7/24

Right Out: 5.245 $\pm$ 0.271 χ^2 /NDF: 310.2/20

Left In: -2.461 $\pm$ 0.264 χ^2 /NDF: 928.0/22

Left: -2.947 $\pm$ 0.183 χ^2 /NDF: 1012.2/47

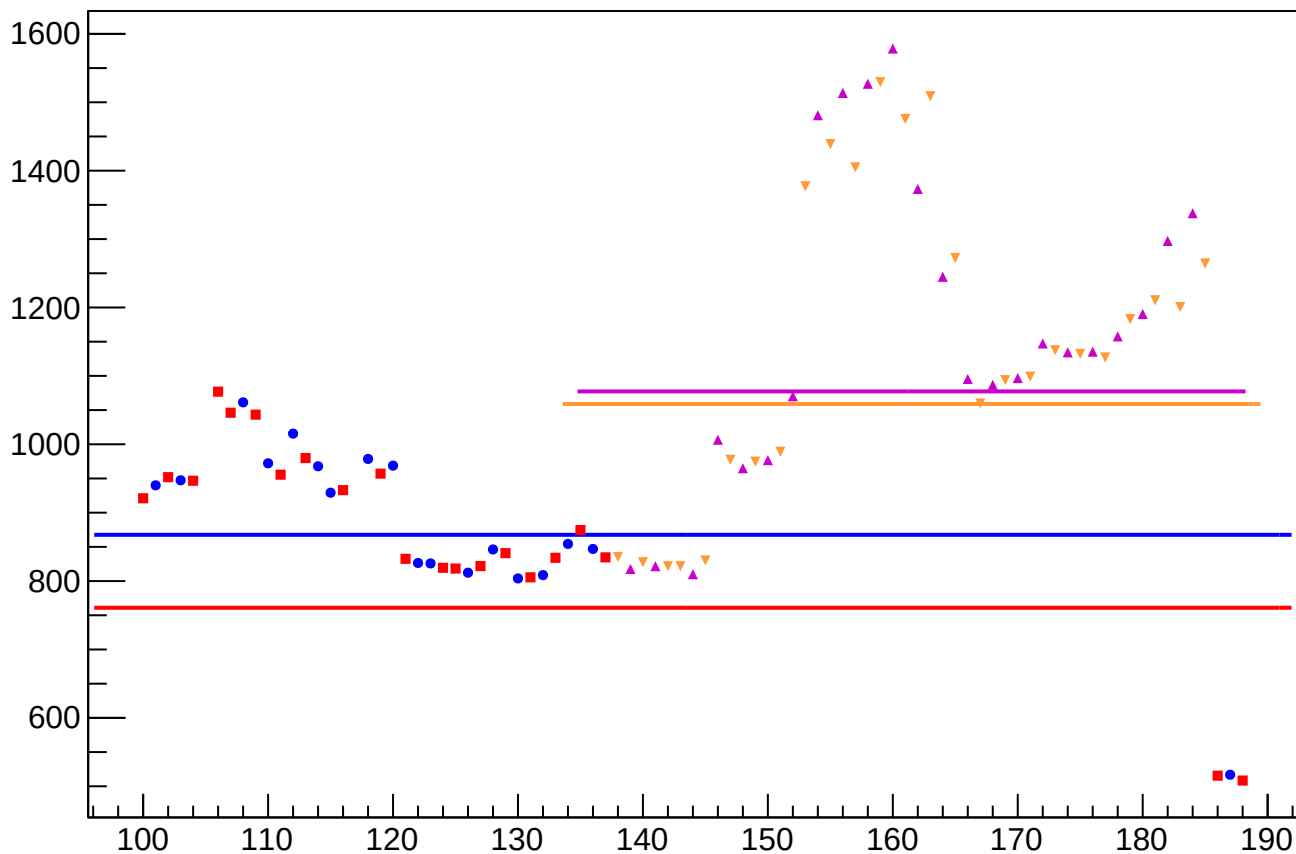
Right: 7.692 $\pm$ 0.211 χ^2 /NDF: 653.0/38

In: 2.878 $\pm$ 0.207 χ^2 /NDF: 2125.1/40

Out: 0.613 $\pm$ 0.185 χ^2 /NDF: 931.1/45

All: 1.616 $\pm$ 0.138 χ^2 /NDF: 3122.7/86

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 867.653 $\pm$ 0.236 χ^2/NDF : 249971.8/17

Left Out: 1058.941 $\pm$ 0.178 χ^2/NDF : 1403222.2/24

Right Out: 761.007 $\pm$ 0.192 χ^2/NDF : 1073129.2/20

Left In: 1077.284 $\pm$ 0.187 χ^2/NDF : 1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2/NDF : 2688612.0/47

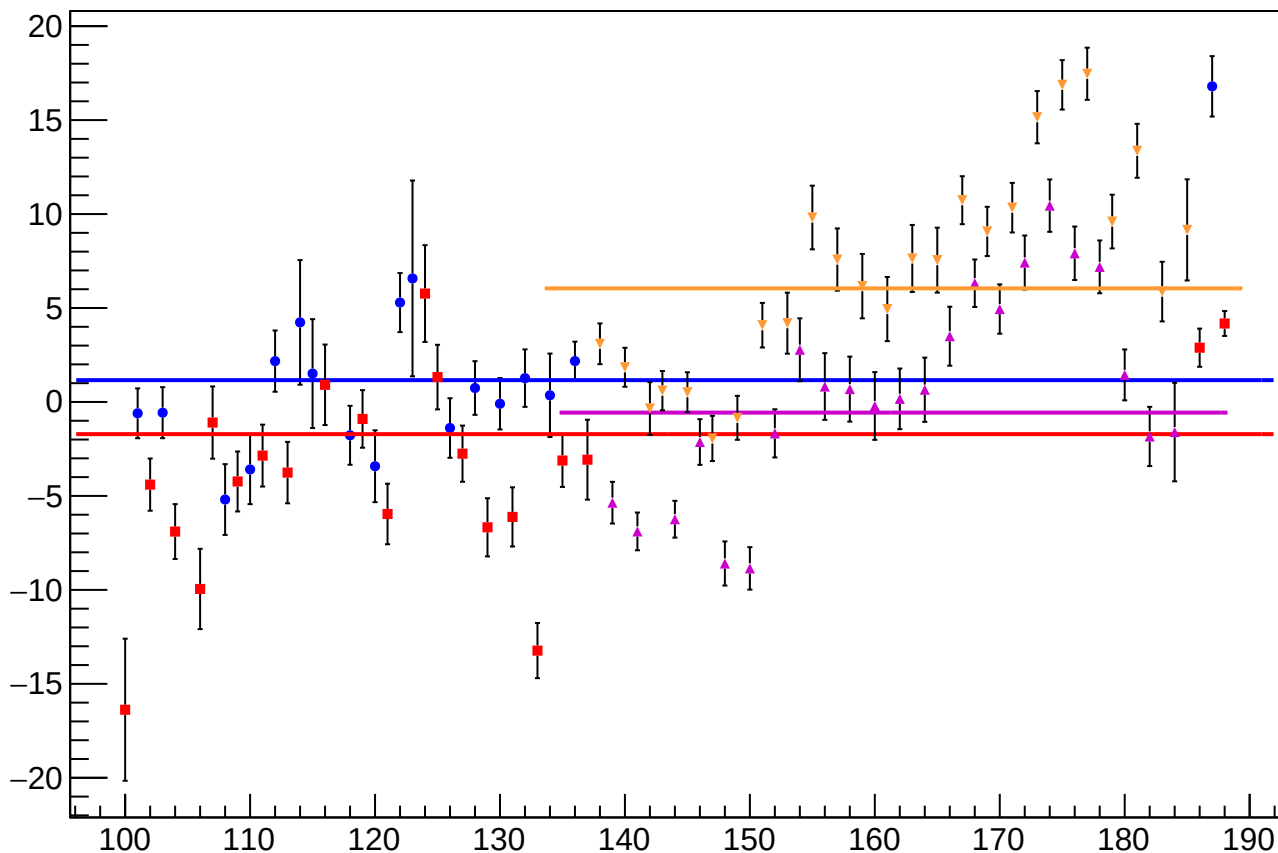
Right: 803.392 $\pm$ 0.149 χ^2/NDF : 1445904.4/38

In: 996.563 $\pm$ 0.147 χ^2/NDF : 2014562.8/40

Out: 920.811 $\pm$ 0.131 χ^2/NDF : 3769835.2/45

All: 954.342 $\pm$ 0.098 χ^2/NDF : 5933238.2/86

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 1.161+/-0.384 χ^2/NDF : 139.2/17

Left Out: 6.045+/-0.272 χ^2/NDF : 430.8/24

Right Out: -1.712+/-0.318 χ^2/NDF : 252.6/20

Left In: -0.566+/-0.284 χ^2/NDF : 417.0/22

Left: 2.888+/-0.196 χ^2/NDF : 1130.7/47

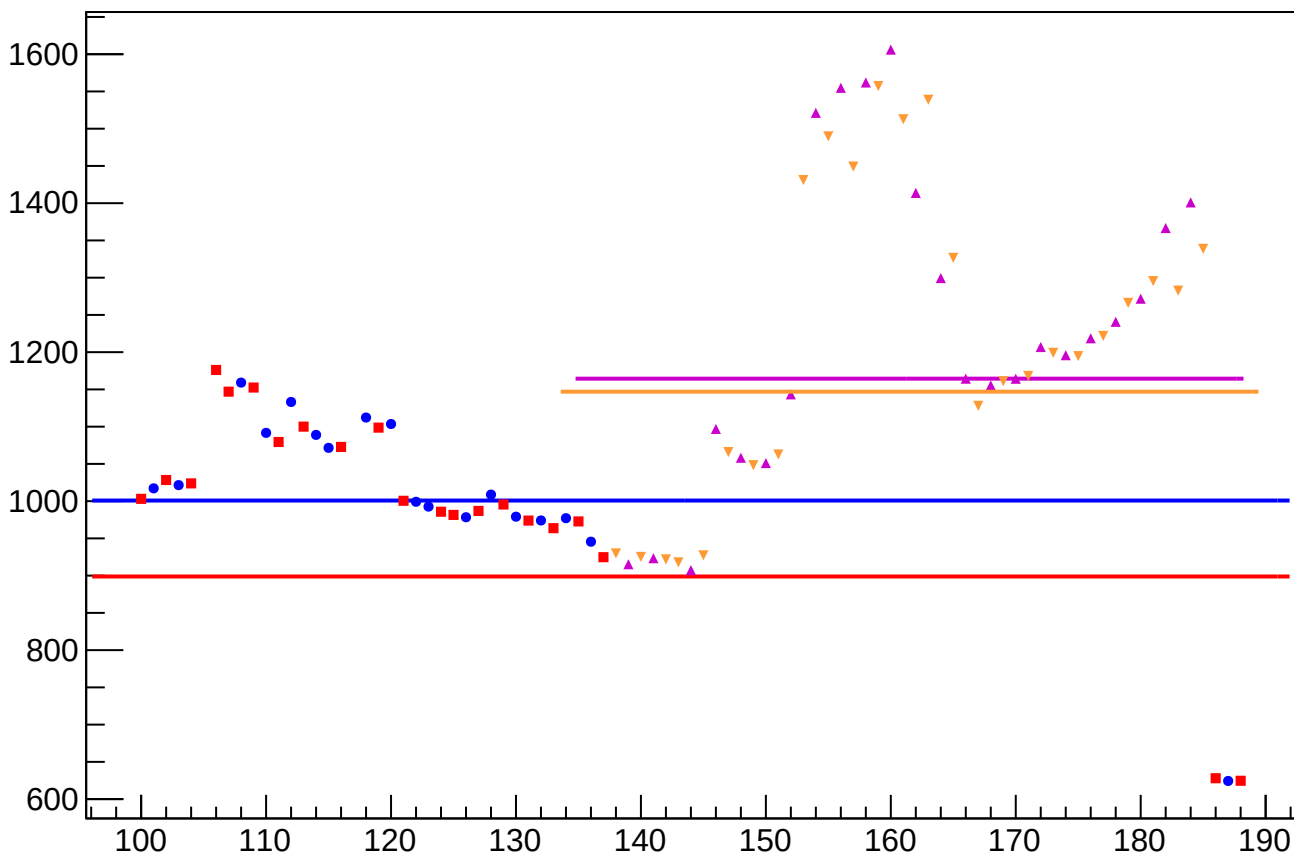
Right: -0.546+/-0.245 χ^2/NDF : 425.0/38

In: 0.045+/-0.228 χ^2/NDF : 569.2/40

Out: 2.767+/-0.206 χ^2/NDF : 1028.0/45

All: 1.543+/-0.153 χ^2/NDF : 1675.4/86

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1000.825 $\pm$ 0.272 χ^2/NDF : 168665.6/17

Left Out: 1146.960 $\pm$ 0.192 χ^2/NDF : 1045761.4/24

Right Out: 898.861 $\pm$ 0.225 χ^2/NDF : 782313.4/20

Left In: 1164.432 $\pm$ 0.201 χ^2/NDF : 944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2/NDF : 1993824.0/47

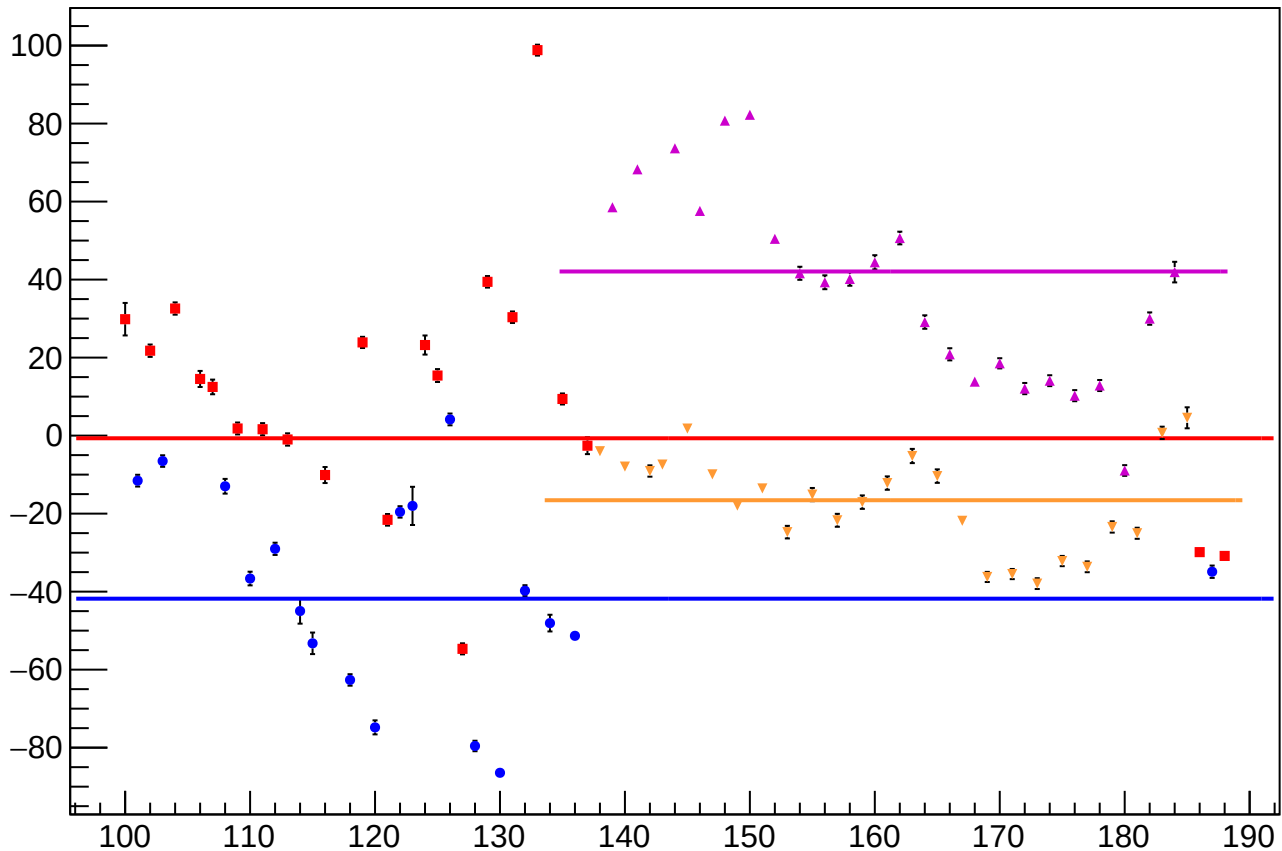
Right: 940.247 $\pm$ 0.173 χ^2/NDF : 1034666.5/38

In: 1106.591 $\pm$ 0.162 χ^2/NDF : 1347231.4/40

Out: 1042.118 $\pm$ 0.146 χ^2/NDF : 2532932.6/45

All: 1071.101 $\pm$ 0.108 χ^2/NDF : 3967856.2/86

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.807 ± 0.377 $\chi^2/\text{NDF}: 5117.4/17$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -0.682 ± 0.309 $\chi^2/\text{NDF}: 12364.3/20$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

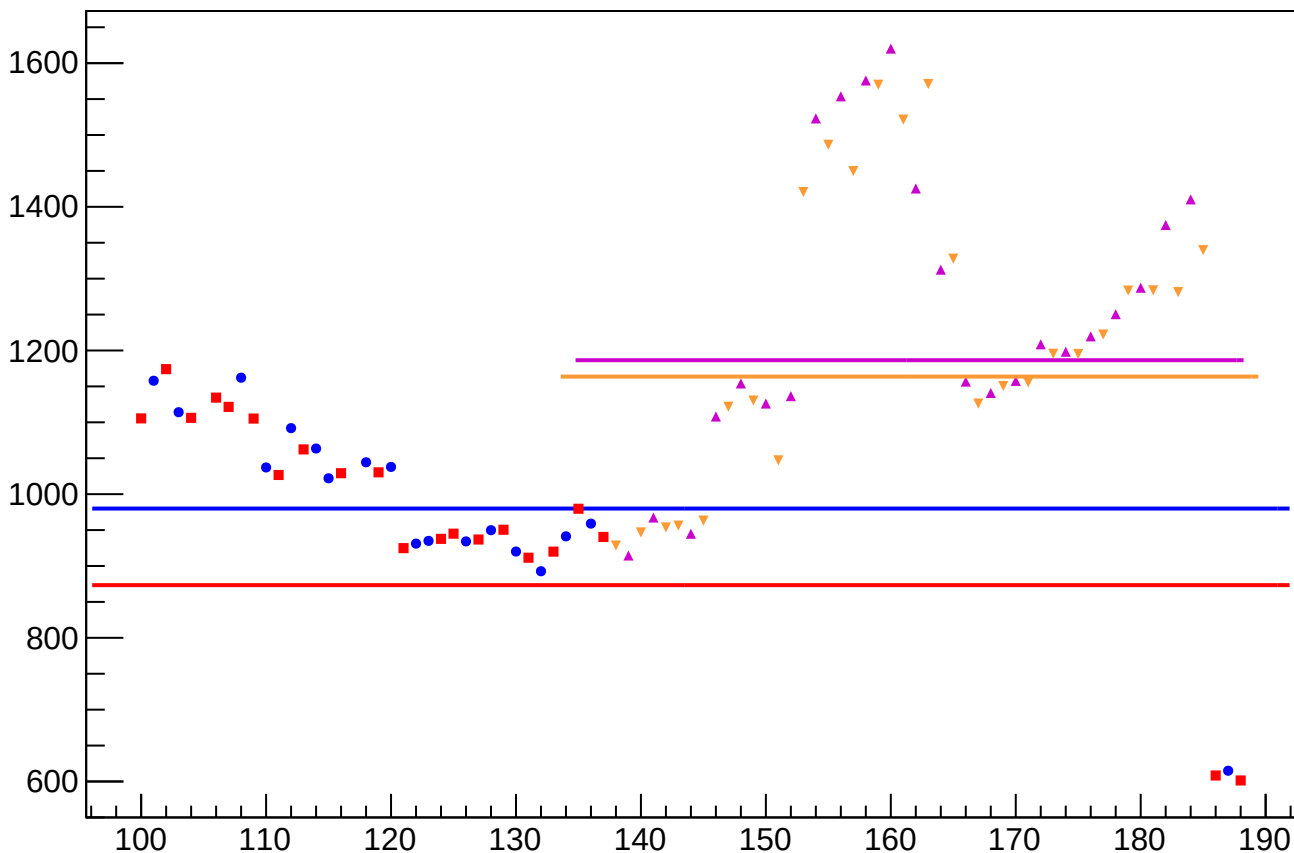
Right: -17.240 ± 0.239 $\chi^2/\text{NDF}: 24600.5/38$

In: 10.987 ± 0.229 $\chi^2/\text{NDF}: 44654.7/40$

Out: -9.546 ± 0.206 $\chi^2/\text{NDF}: 15767.5/45$

All: -0.396 ± 0.153 $\chi^2/\text{NDF}: 64865.7/86$

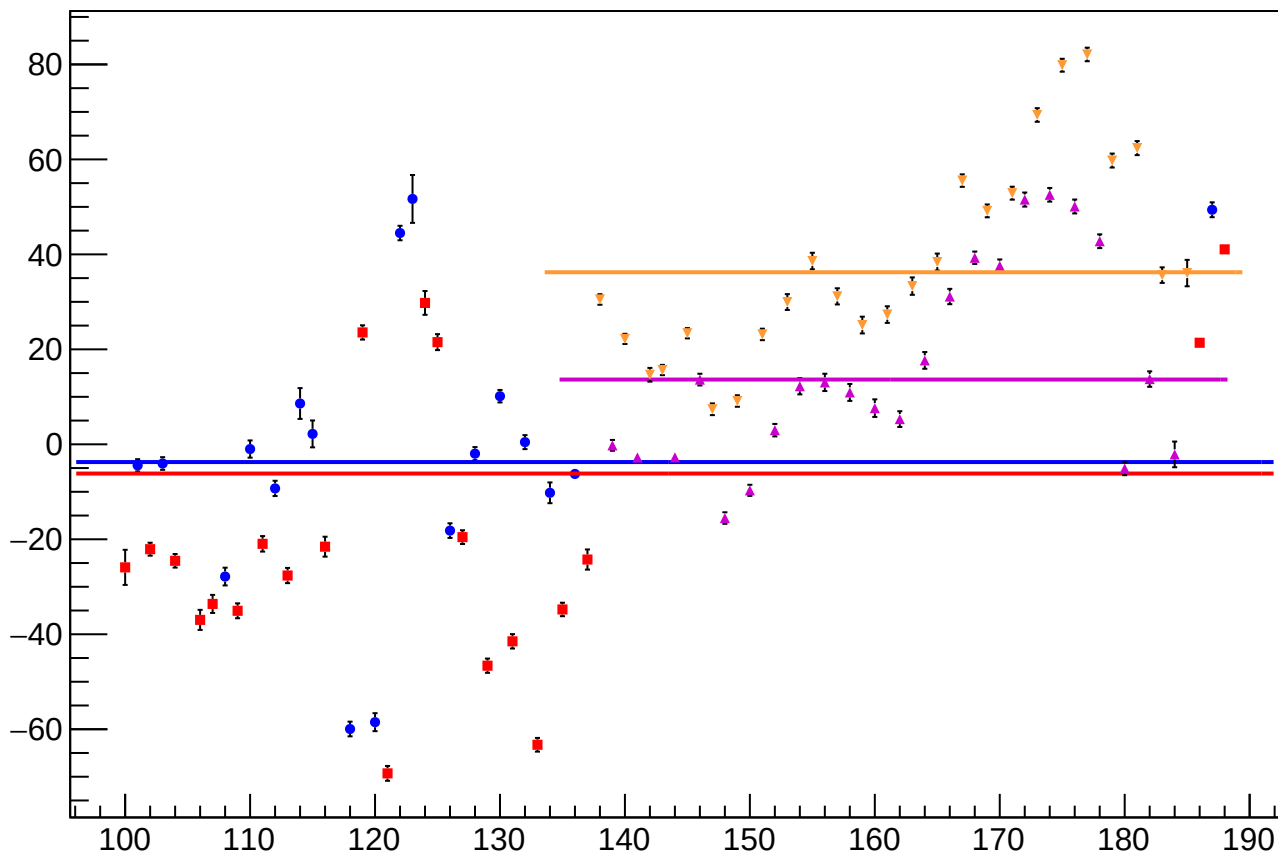
diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 979.948 $\pm$ 0.266 χ^2 /NDF: 208113.3/17
 Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24
 Right Out: 873.320 $\pm$ 0.219 χ^2 /NDF: 861522.4/20
 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: 916.251 $\pm$ 0.169 χ^2 /NDF: 1165351.4/38
 In: 1109.929 $\pm$ 0.162 χ^2 /NDF: 1419857.4/40
 Out: 1035.345 $\pm$ 0.145 χ^2 /NDF: 2781331.8/45
 All: 1068.581 $\pm$ 0.108 χ^2 /NDF: 4318451.6/86

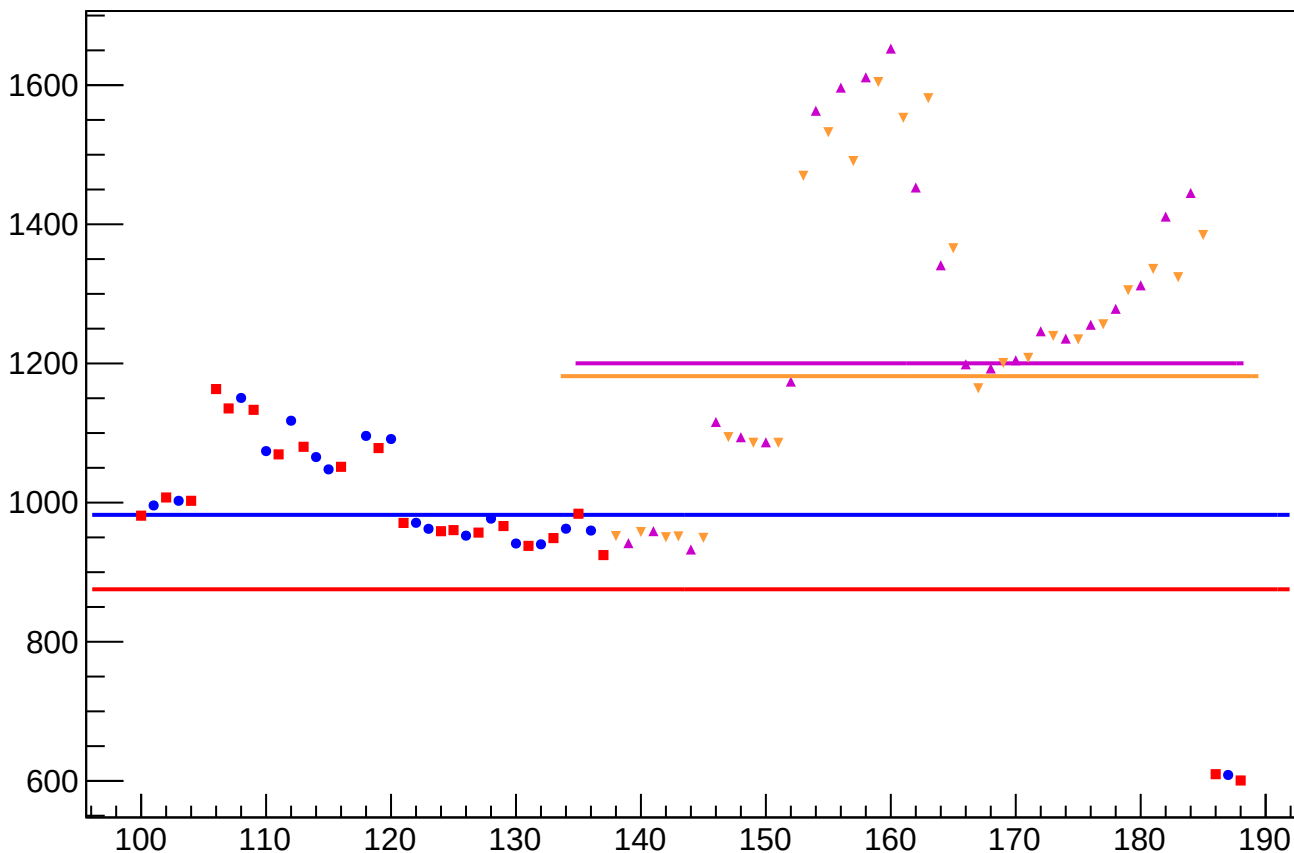
diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -3.736 ± 0.377 $\chi^2/\text{NDF}: 4857.6/17$
 Left Out: 36.234 ± 0.280 $\chi^2/\text{NDF}: 5794.2/24$
 Right Out: -6.155 ± 0.310 $\chi^2/\text{NDF}: 13593.7/20$
 Left In: 13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

Left: 25.447 ± 0.202 $\chi^2/\text{NDF}: 14084.0/47$
 Right: -5.180 ± 0.239 $\chi^2/\text{NDF}: 18475.8/38$
 In: 7.107 ± 0.231 $\chi^2/\text{NDF}: 11359.7/40$
 Out: 17.188 ± 0.208 $\chi^2/\text{NDF}: 29695.2/45$
 All: 12.688 ± 0.155 $\chi^2/\text{NDF}: 42106.5/86$

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 982.409 ± 0.267 $\chi^2/\text{NDF}: 175592.1/17$

Left Out: 1181.732 ± 0.198 $\chi^2/\text{NDF}: 1043520.8/24$

Right Out: 875.414 ± 0.219 $\chi^2/\text{NDF}: 844626.1/20$

Left In: 1200.198 ± 0.207 $\chi^2/\text{NDF}: 938224.7/22$

Left: 1190.549 ± 0.143 $\chi^2/\text{NDF}: 1985902.3/47$

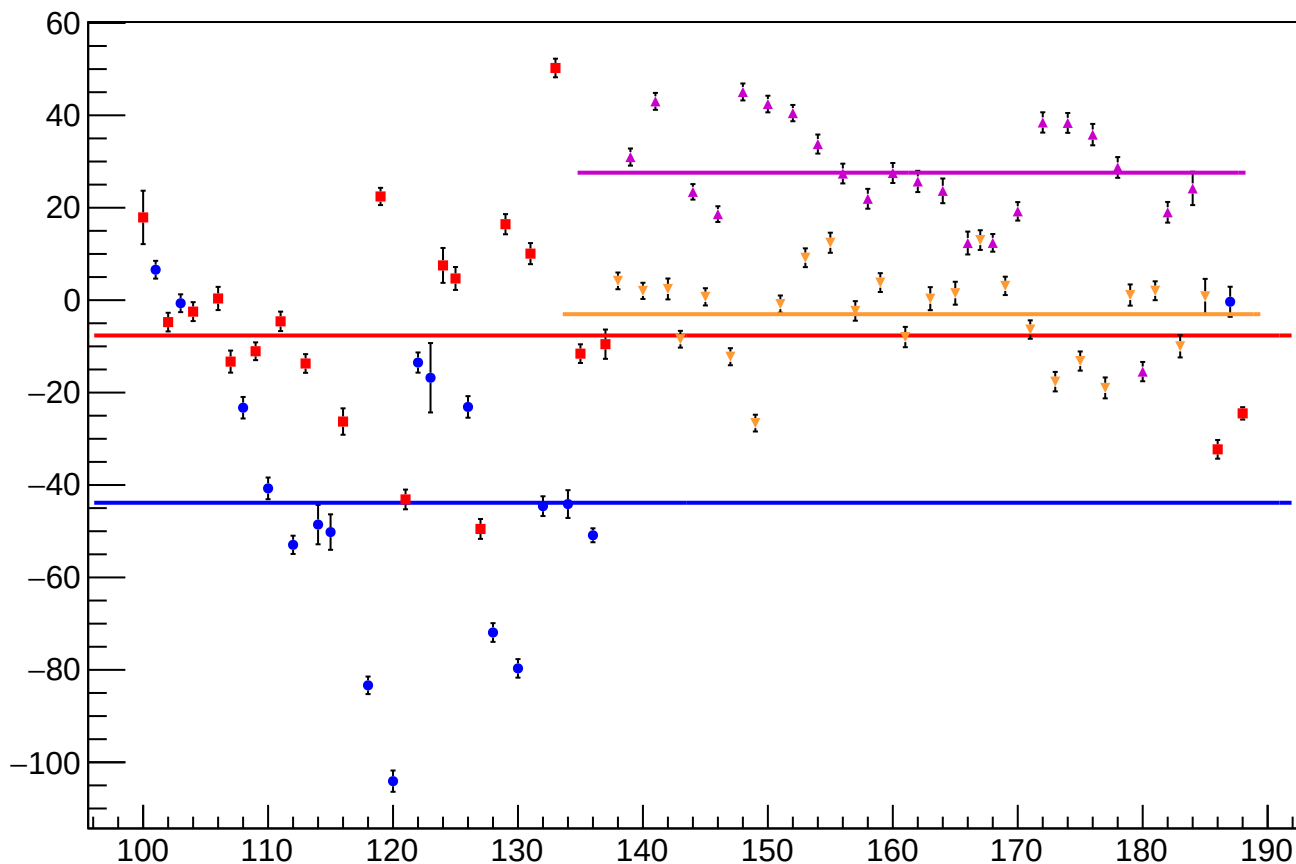
Right: 918.519 ± 0.169 $\chi^2/\text{NDF}: 1116306.8/38$

In: 1118.313 ± 0.164 $\chi^2/\text{NDF}: 1529872.3/40$

Out: 1044.095 ± 0.147 $\chi^2/\text{NDF}: 2964651.0/45$

All: 1077.225 ± 0.109 $\chi^2/\text{NDF}: 4608532.3/86$

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -43.840 ± 0.533 $\chi^2/\text{NDF}: 3407.3/17$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -7.644 ± 0.473 $\chi^2/\text{NDF}: 2373.7/20$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

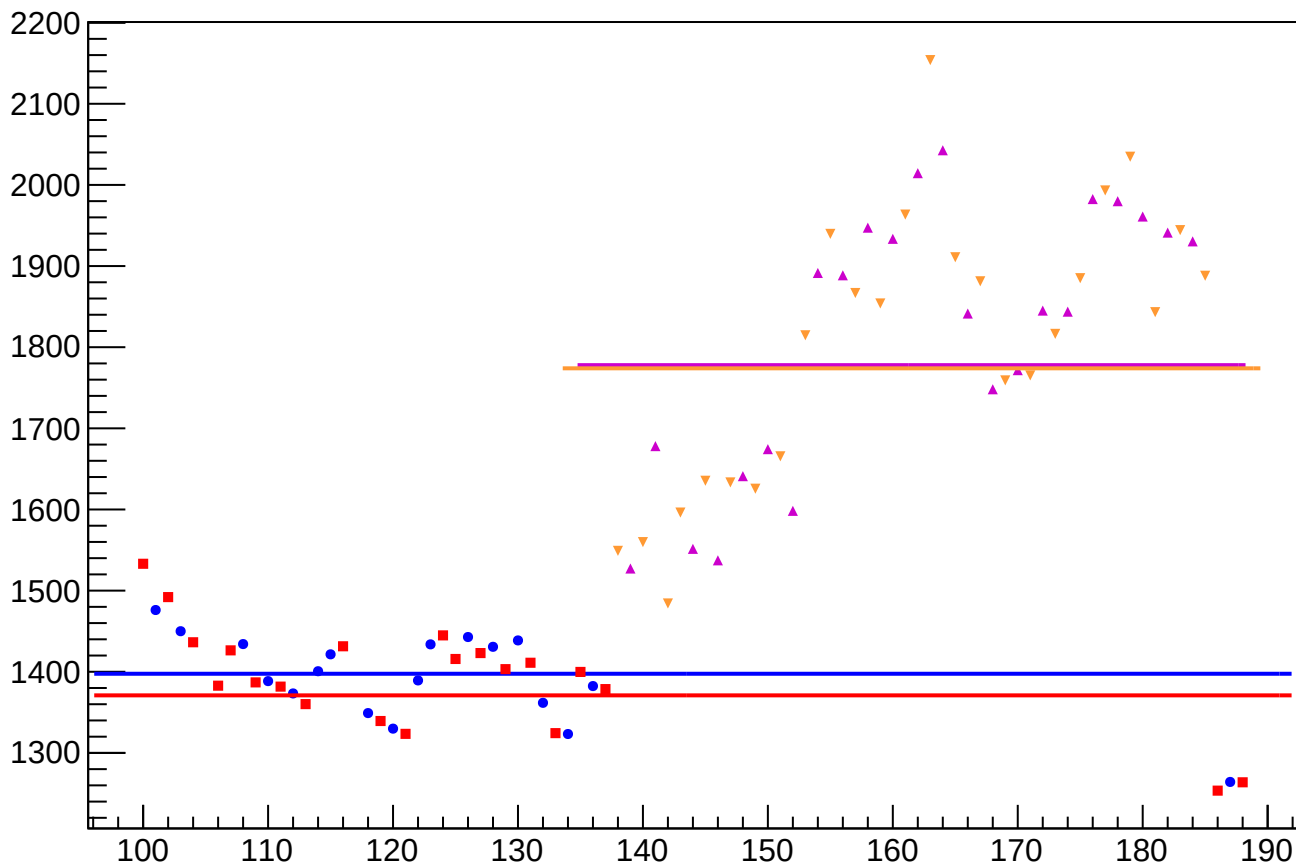
Right: -23.594 ± 0.354 $\chi^2/\text{NDF}: 8357.8/38$

In: -0.480 ± 0.334 $\chi^2/\text{NDF}: 15256.8/40$

Out: -5.039 ± 0.312 $\chi^2/\text{NDF}: 2982.8/45$

All: -2.916 ± 0.228 $\chi^2/\text{NDF}: 18339.0/86$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1397.549 $\pm$ 0.377 χ^2 /NDF: 16295.0/17

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1370.923 $\pm$ 0.335 χ^2 /NDF: 39355.3/20

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

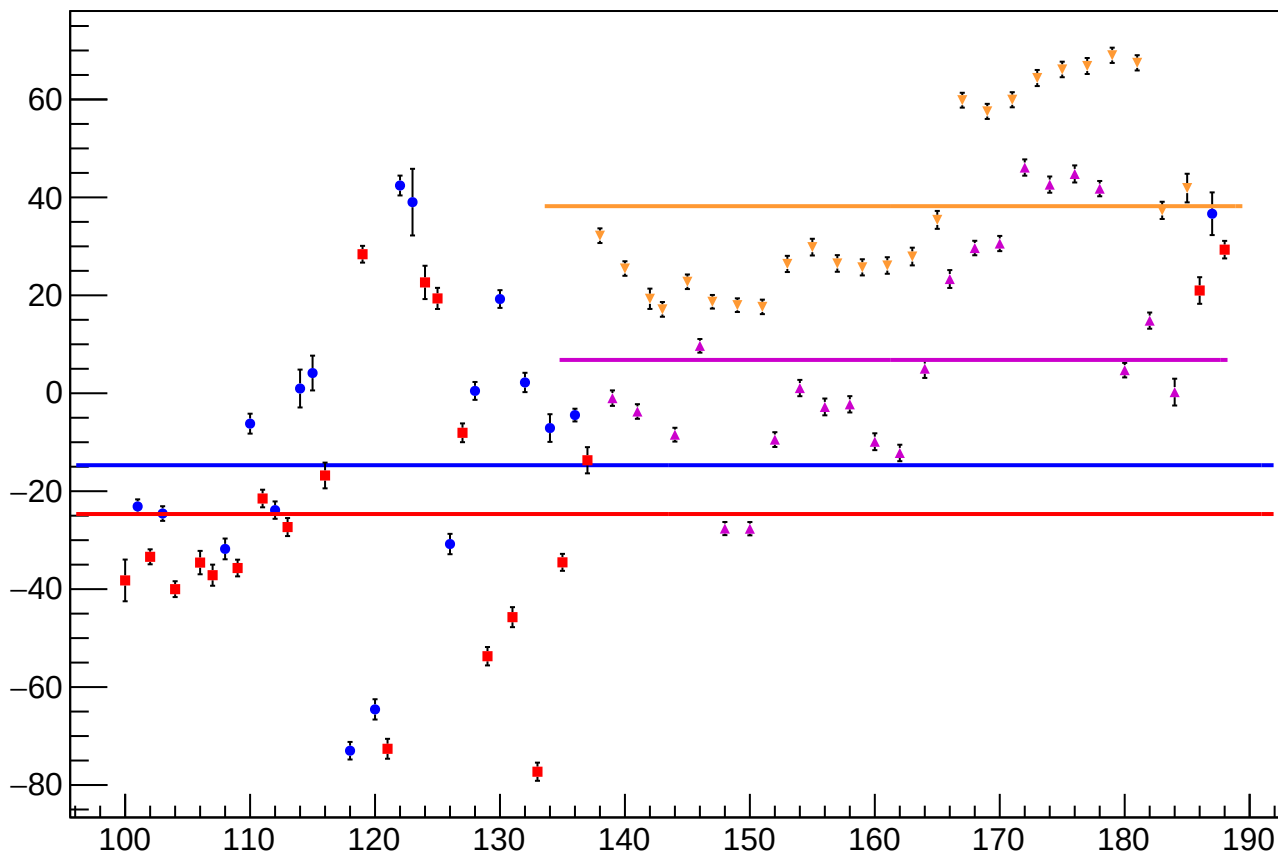
Right: 1382.656 $\pm$ 0.250 χ^2 /NDF: 58439.0/38

In: 1628.447 $\pm$ 0.236 χ^2 /NDF: 933381.4/40

Out: 1598.763 $\pm$ 0.221 χ^2 /NDF: 1172072.5/45

All: 1612.587 $\pm$ 0.161 χ^2 /NDF: 2113880.5/86

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -14.691 $\pm$ 0.470 χ^2 /NDF: 3486.0/17

Left Out: 38.206 $\pm$ 0.323 χ^2 /NDF:3514.2/24

Right Out: -24.661 $\pm$ 0.437 χ^2 /NDF: 4828.2/20

Left In: 6.808 $\pm$ 0.333 χ^2 /NDF:4494.5/22

Left: 22.967 $\pm$ 0.232 χ^2 /NDF: 12584.4/47

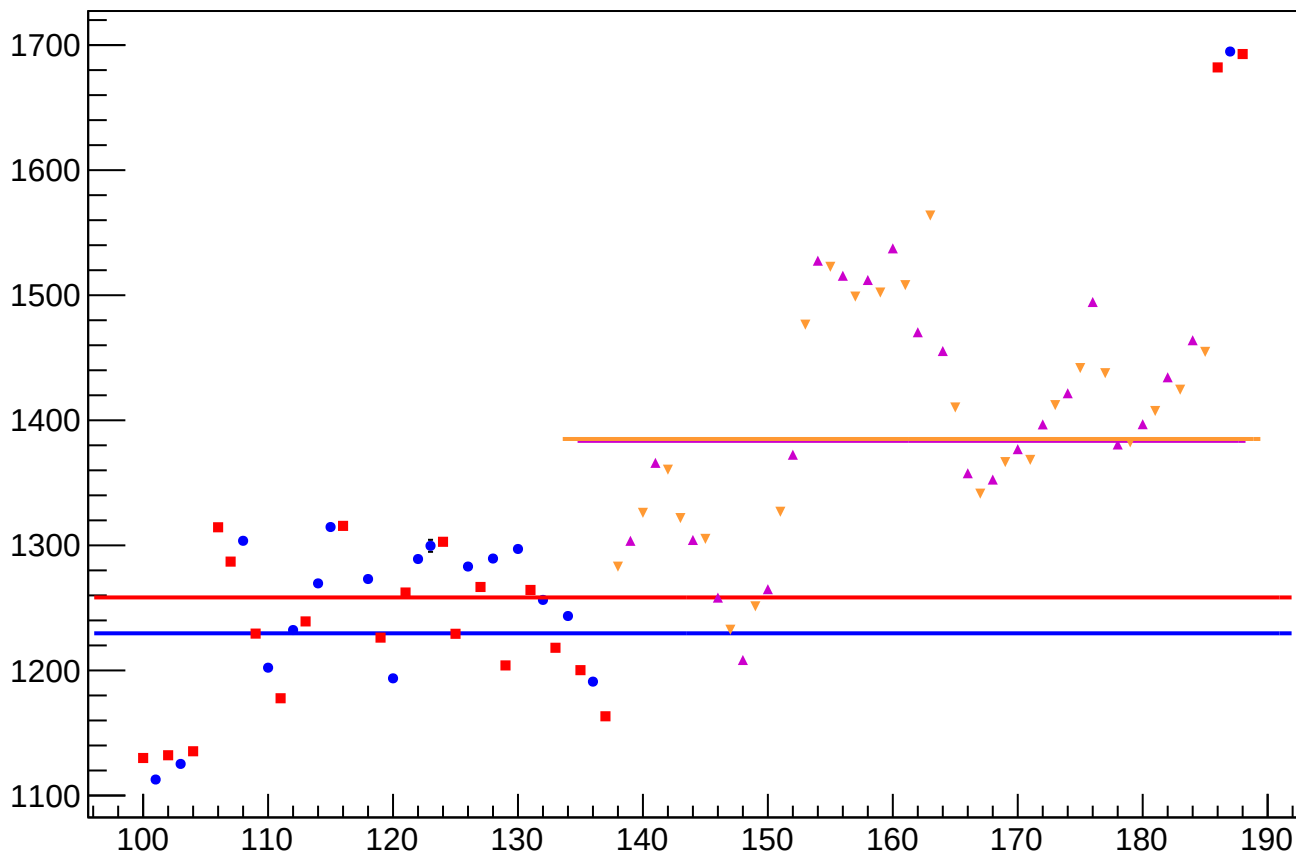
Right: -20.040 $\pm$ 0.320 χ^2 /NDF: 8555.4/38

In: -0.374 $\pm$ 0.272 χ^2 /NDF:9373.2/40

Out: 15.960 $\pm$ 0.260 χ^2 /NDF:21716.6/45

All: 8.155 $\pm$ 0.188 χ^2 /NDF: 32976.5/86

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1229.687 $\pm$ 0.332 χ^2/NDF : 61817.9/17

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF :146001.5/24

Right Out: 1258.374 $\pm$ 0.309 χ^2/NDF : 209248.1/20

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

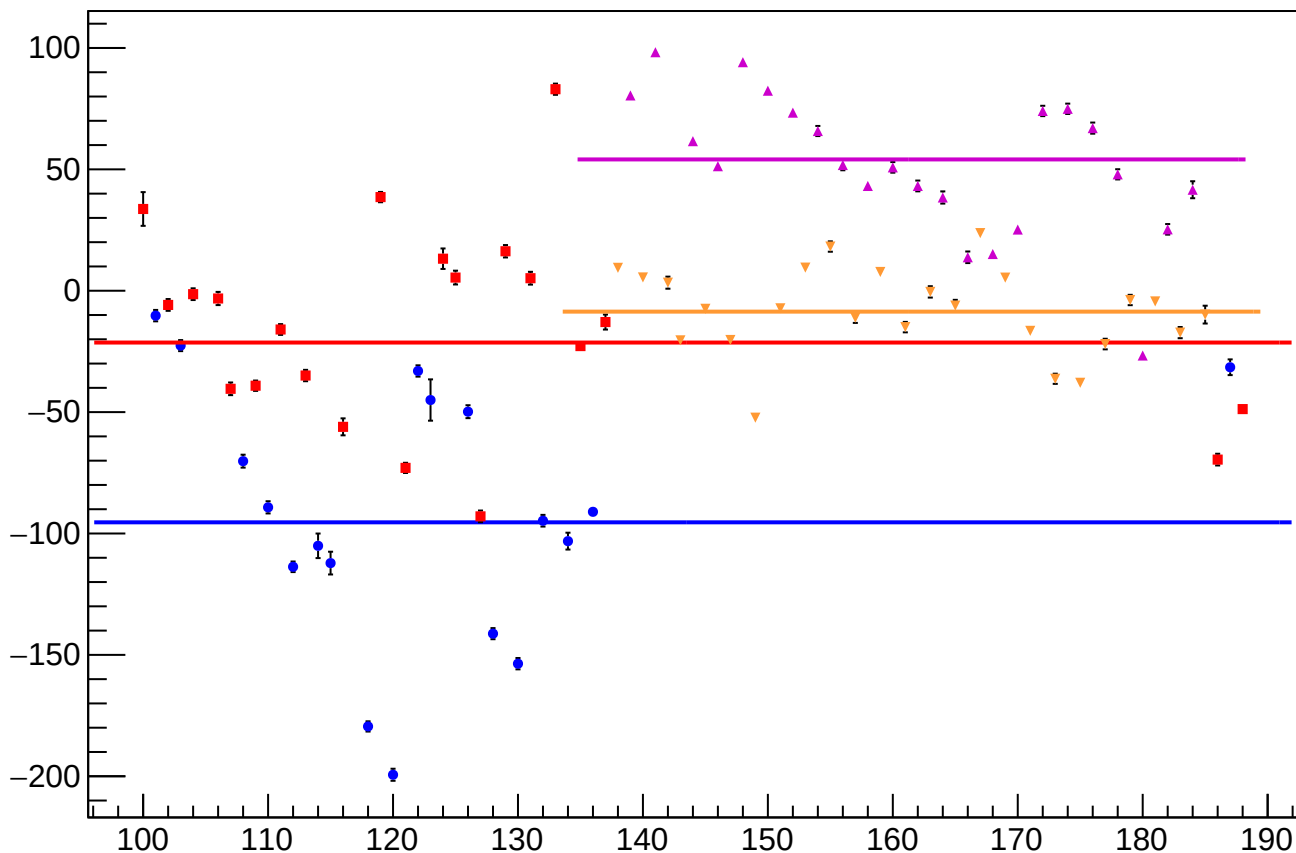
Right: 1245.078 $\pm$ 0.226 χ^2/NDF : 275061.3/38

In: 1332.156 $\pm$ 0.192 χ^2/NDF :359180.2/40

Out: 1340.233 $\pm$ 0.184 χ^2/NDF :463873.2/45

All: 1336.374 $\pm$ 0.133 χ^2/NDF : 823976.3/86

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -95.400 $\pm$ 0.592 χ^2/NDF : 8321.9/17

Left Out: -8.606 $\pm$ 0.410 χ^2/NDF : 1930.5/24

Right Out: -21.339 $\pm$ 0.522 χ^2/NDF : 6087.7/20

Left In: 54.089 $\pm$ 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 $\pm$ 0.295 χ^2/NDF : 17900.0/47

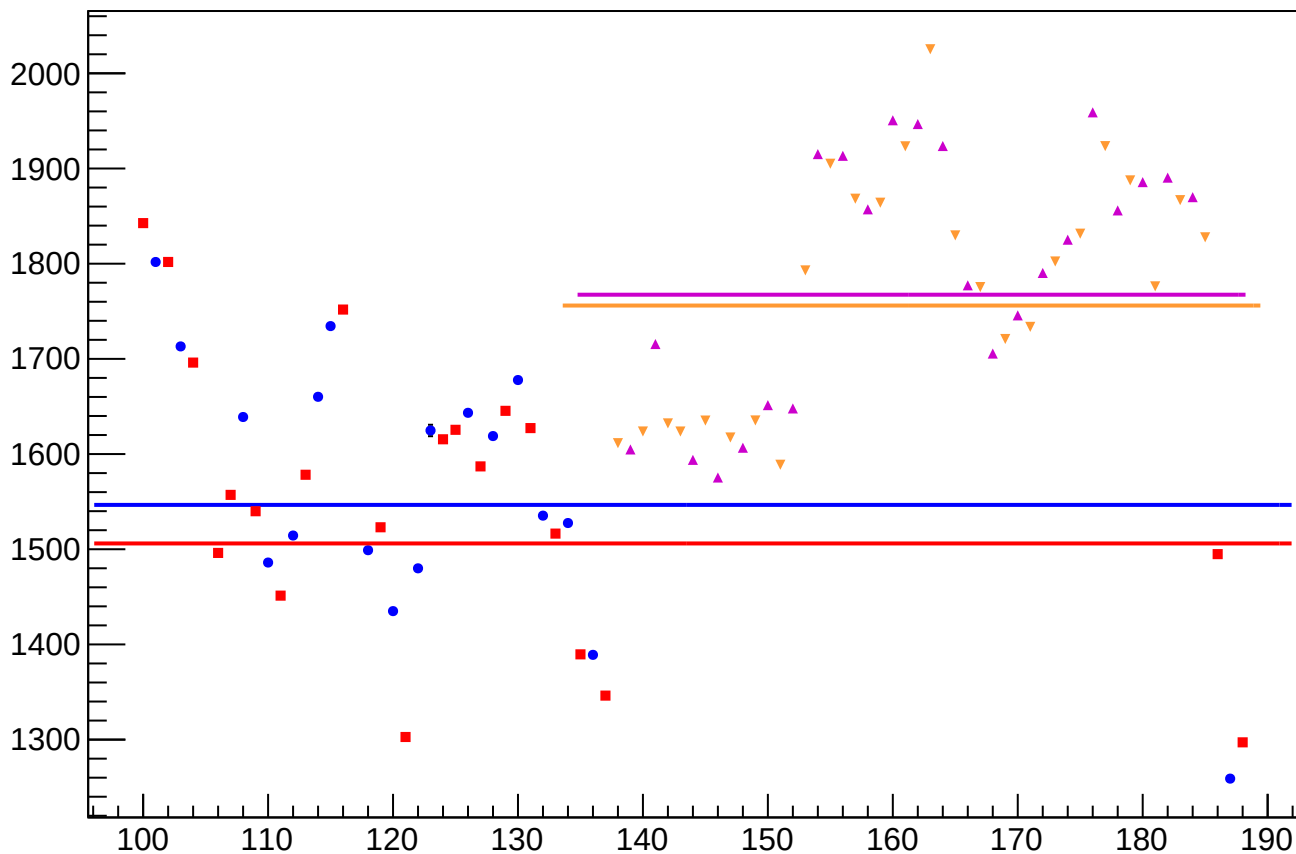
Right: -53.725 $\pm$ 0.392 χ^2/NDF : 23213.1/38

In: 3.160 $\pm$ 0.346 χ^2/NDF : 55066.9/40

Out: -13.467 $\pm$ 0.323 χ^2/NDF : 8386.2/45

All: -5.727 $\pm$ 0.236 χ^2/NDF : 64690.3/86

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1546.591 $\pm$ 0.419 χ^2/NDF : 97756.5/17

Left Out: 1756.034 $\pm$ 0.290 χ^2/NDF : 175762.3/24

Right Out: 1506.087 $\pm$ 0.369 χ^2/NDF : 155410.4/20

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

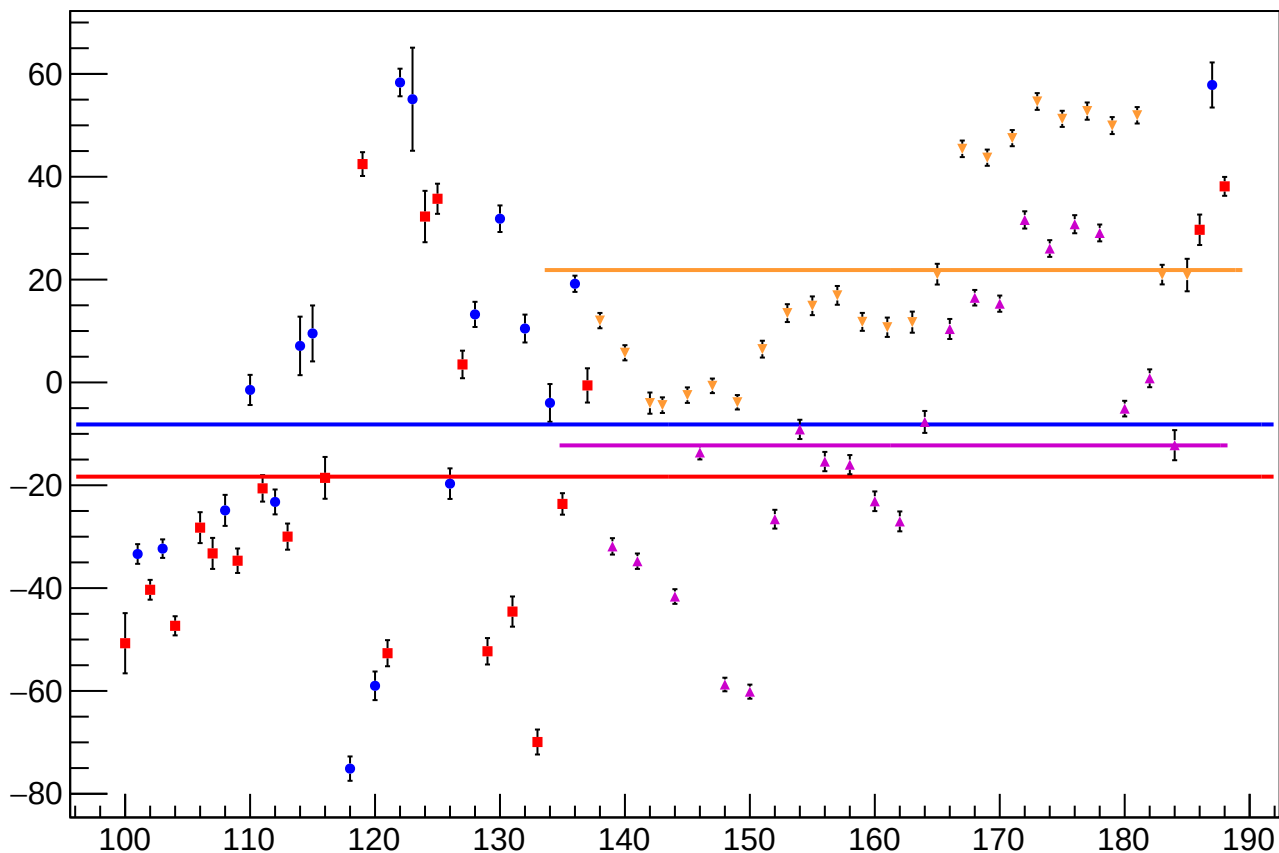
Right: 1523.799 $\pm$ 0.277 χ^2/NDF : 258432.9/38

In: 1692.180 $\pm$ 0.244 χ^2/NDF : 469104.1/40

Out: 1660.601 $\pm$ 0.228 χ^2/NDF : 614667.2/45

All: 1675.301 $\pm$ 0.167 χ^2/NDF : 1092696.6/86

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -8.171 ± 0.621 χ^2/NDF : 3140.2/17

Left Out: 21.856 ± 0.335 χ^2/NDF : 4110.5/24

Right Out: -18.322 ± 0.563 χ^2/NDF : 3838.9/20

Left In: -12.246 ± 0.347 χ^2/NDF : 6781.6/22

Left: 5.391 ± 0.241 χ^2/NDF : 15885.7/47

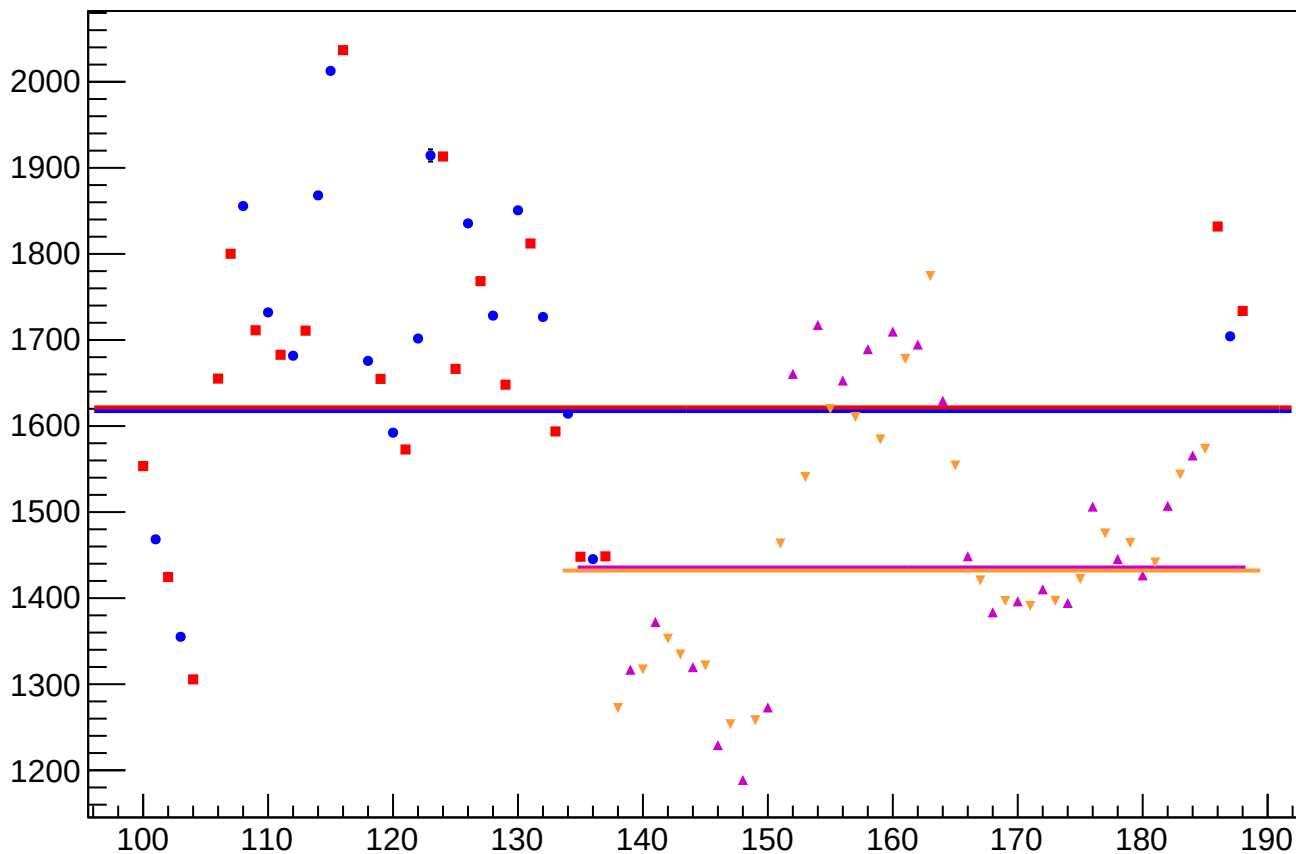
Right: -13.743 ± 0.417 χ^2/NDF : 7125.8/38

In: -11.276 ± 0.303 χ^2/NDF : 9954.6/40

Out: 11.336 ± 0.288 χ^2/NDF : 11708.4/45

All: 0.598 ± 0.209 χ^2/NDF : 24588.5/86

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1617.406 $\pm$ 0.439 χ^2 /NDF: 149991.1/17

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1621.677 $\pm$ 0.398 χ^2 /NDF: 173431.8/20

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

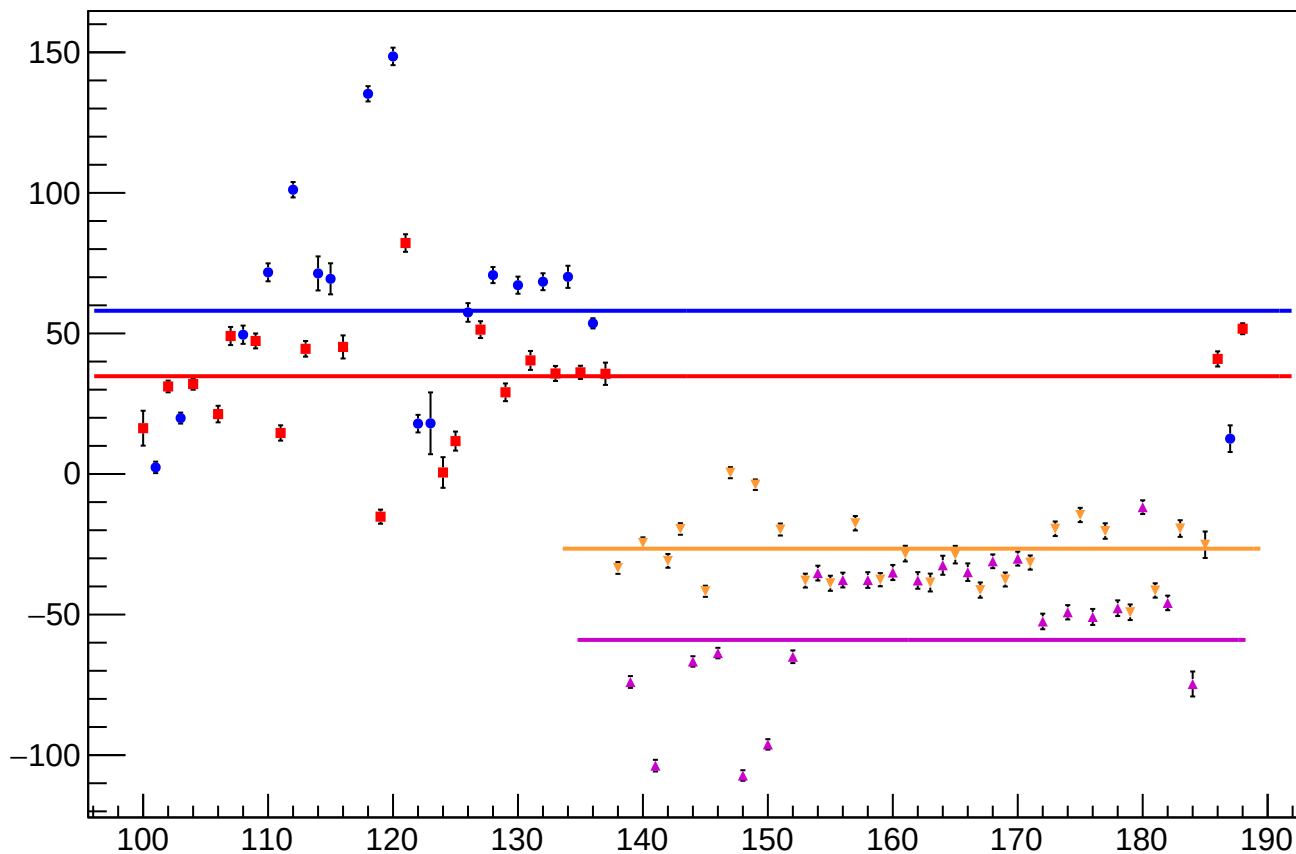
Right: 1619.750 $\pm$ 0.295 χ^2 /NDF: 323474.9/38

In: 1478.898 $\pm$ 0.214 χ^2 /NDF: 701369.9/40

Out: 1481.706 $\pm$ 0.204 χ^2 /NDF: 638239.0/45

All: 1480.373 $\pm$ 0.148 χ^2 /NDF: 1339699.1/86

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 58.068 $\pm$ 0.693 χ^2 /NDF: 3386.9/17

Left Out: -26.554 $\pm$ 0.488 χ^2 /NDF: 717.5/24

Right Out: 34.784 $\pm$ 0.615 χ^2 /NDF: 981.4/20

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

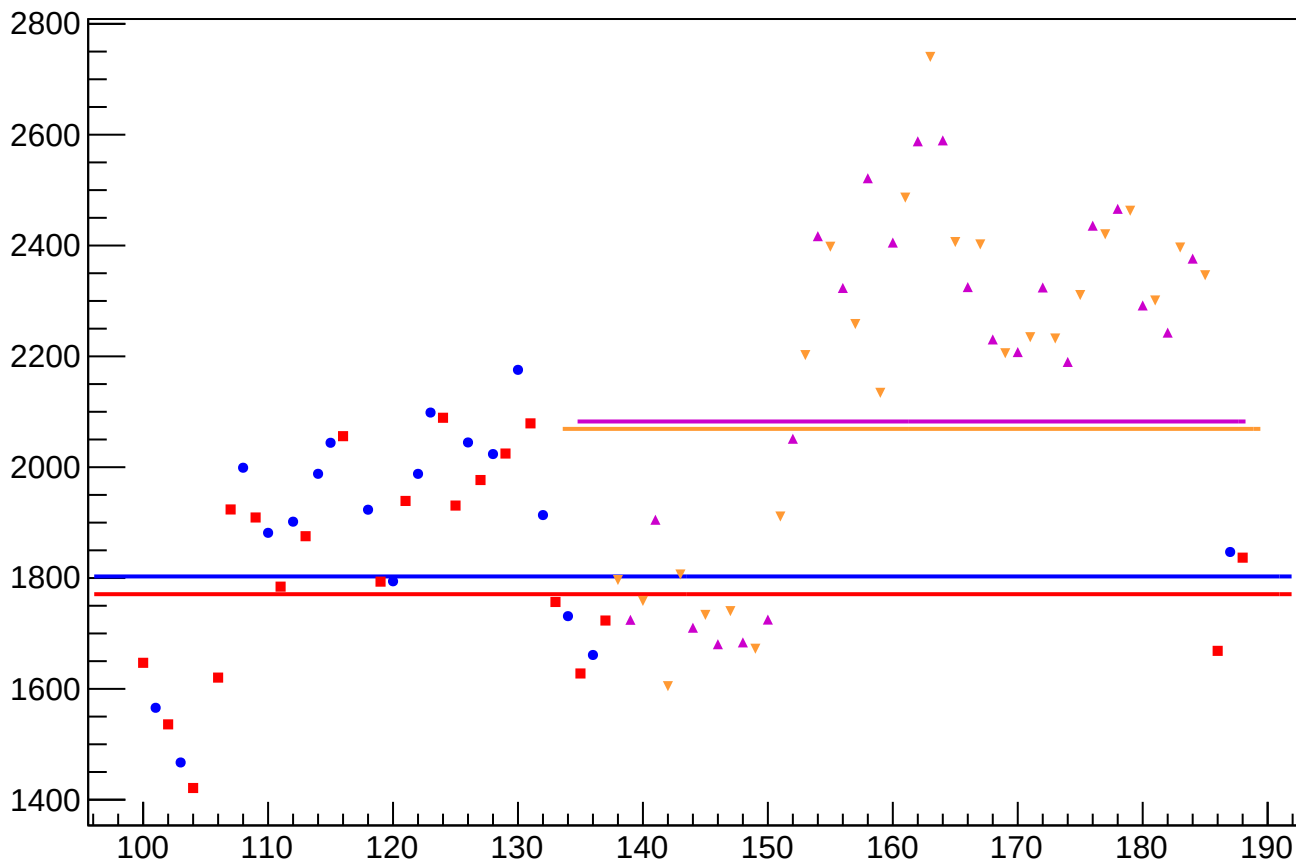
Right: 45.037 $\pm$ 0.460 χ^2 /NDF: 5000.1/38

In: -18.253 $\pm$ 0.409 χ^2 /NDF: 24779.0/40

Out: -2.849 $\pm$ 0.382 χ^2 /NDF: 7808.0/45

All: -10.031 $\pm$ 0.279 χ^2 /NDF: 33344.6/86

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.880 ± 0.490 $\chi^2/\text{NDF}: 183732.1/17$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1770.860 ± 0.435 $\chi^2/\text{NDF}: 182993.0/20$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

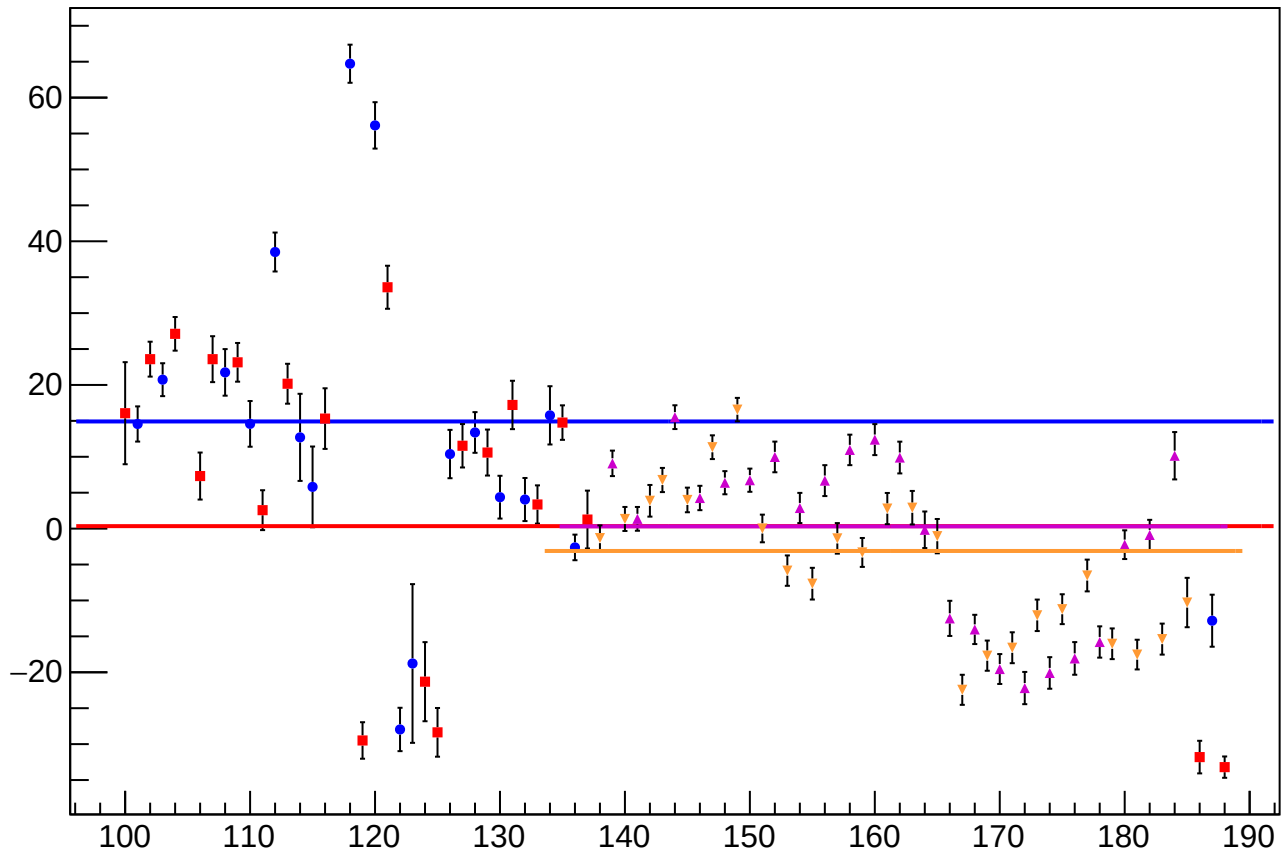
Right: 1784.960 ± 0.325 $\chi^2/\text{NDF}: 369114.9/38$

In: 1985.151 ± 0.289 $\chi^2/\text{NDF}: 1181306.4/40$

Out: 1953.868 ± 0.270 $\chi^2/\text{NDF}: 1270974.9/45$

All: 1968.453 ± 0.197 $\chi^2/\text{NDF}: 2458530.2/86$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 14.918 $\pm$ 0.709 χ^2/NDF : 999.1/17

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF : 643.7/24

Right Out: 0.345 $\pm$ 0.606 χ^2/NDF : 1566.2/20

Left In: 0.312 $\pm$ 0.421 χ^2/NDF : 736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

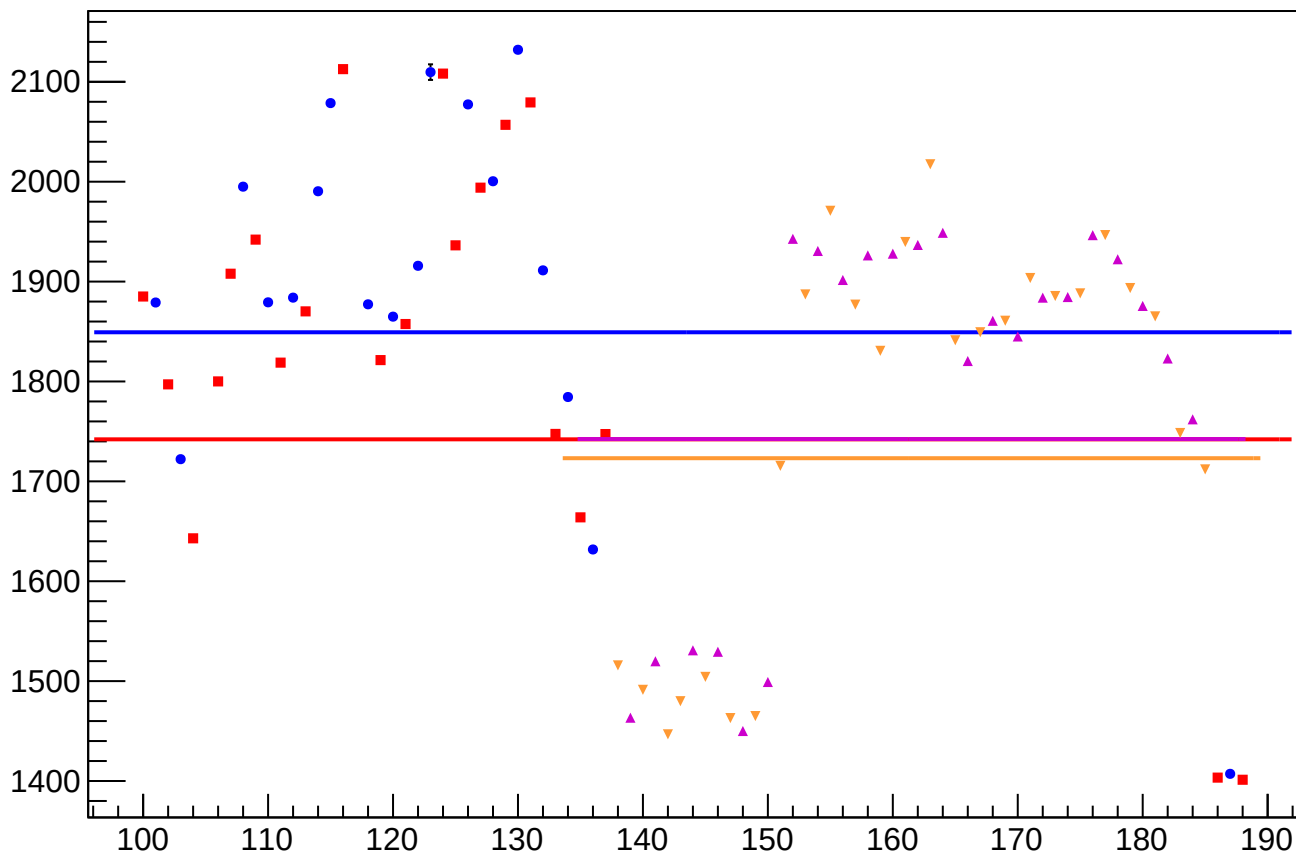
Right: 6.502 $\pm$ 0.461 χ^2/NDF : 2809.5/38

In: 4.123 $\pm$ 0.362 χ^2/NDF : 2049.5/40

Out: -2.048 $\pm$ 0.336 χ^2/NDF : 2232.5/45

All: 0.811 $\pm$ 0.246 χ^2/NDF : 4437.9/86

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1849.248 $\pm$ 0.501 χ^2/NDF : 111651.1/17

Left Out: 1723.168 $\pm$ 0.286 χ^2/NDF : 477441.1/24

Right Out: 1742.061 $\pm$ 0.429 χ^2/NDF : 269362.6/20

Left In: 1742.354 $\pm$ 0.298 χ^2/NDF : 435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2/NDF : 915443.3/47

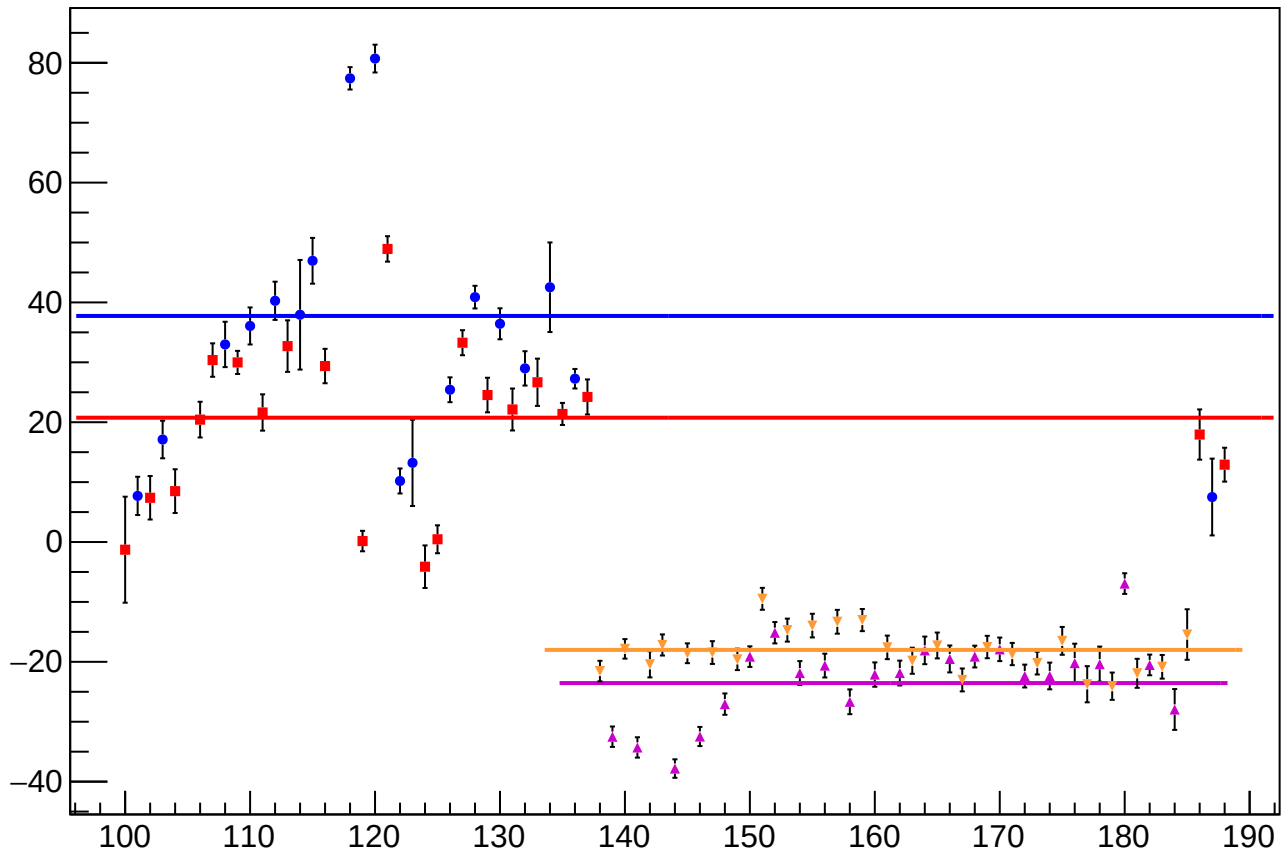
Right: 1787.344 $\pm$ 0.326 χ^2/NDF : 407433.9/38

In: 1770.243 $\pm$ 0.256 χ^2/NDF : 581119.8/40

Out: 1728.984 $\pm$ 0.238 χ^2/NDF : 748148.5/45

All: 1748.097 $\pm$ 0.174 χ^2/NDF : 1343212.6/86

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.741 ± 0.636 $\chi^2/\text{NDF}: 1230.1/17$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 20.754 ± 0.590 $\chi^2/\text{NDF}: 578.7/20$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

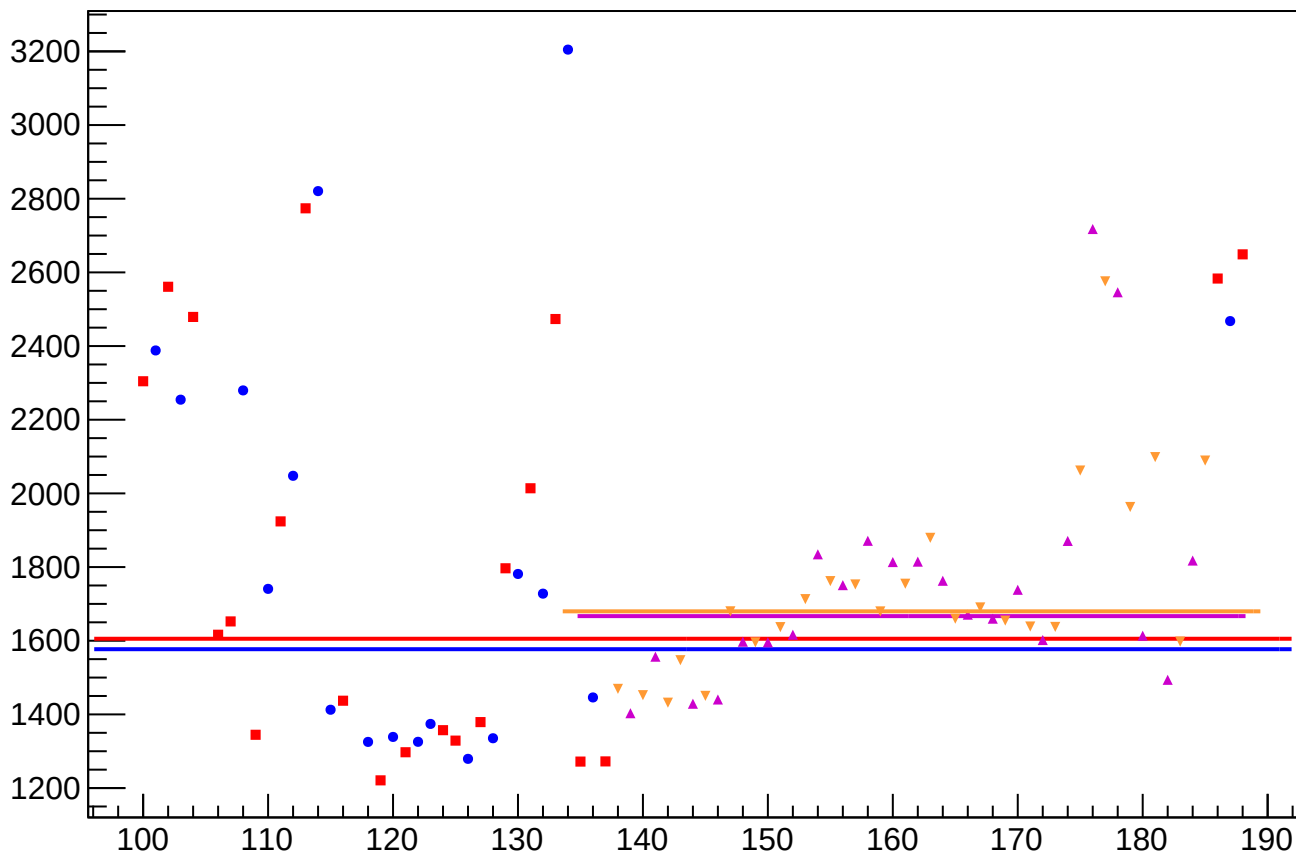
Right: 28.616 ± 0.432 $\chi^2/\text{NDF}: 2192.4/38$

In: -5.807 ± 0.342 $\chi^2/\text{NDF}: 8182.8/40$

Out: -5.938 ± 0.329 $\chi^2/\text{NDF}: 3625.2/45$

All: -5.875 ± 0.237 $\chi^2/\text{NDF}: 11808.1/86$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1577.016 $\pm$ 0.449 χ^2/NDF : 707071.8/17

Left Out: 1679.814 $\pm$ 0.281 χ^2/NDF : 522795.6/24

Right Out: 1605.369 $\pm$ 0.417 χ^2/NDF : 1289252.4/20

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

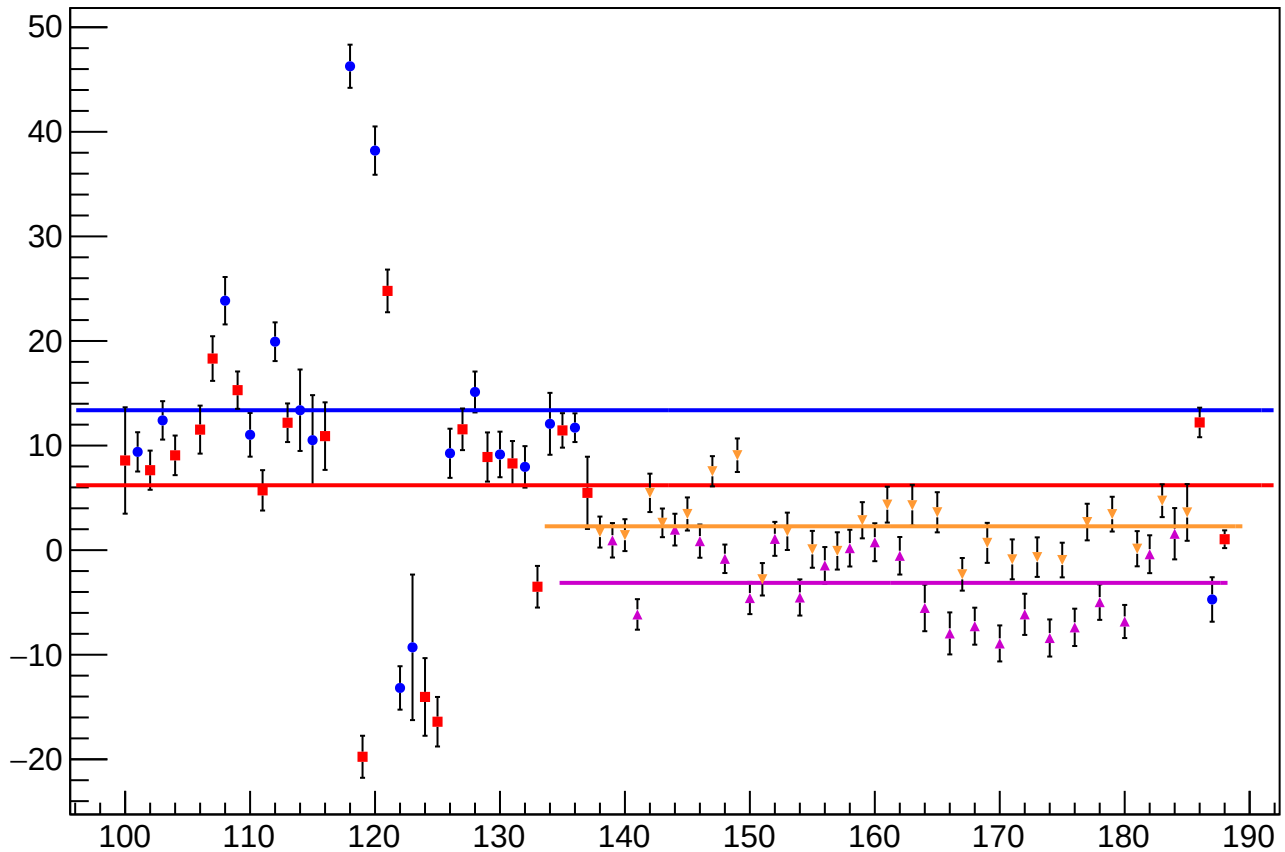
Right: 1592.247 $\pm$ 0.306 χ^2/NDF : 1998462.1/38

In: 1640.827 $\pm$ 0.242 χ^2/NDF : 1386430.6/40

Out: 1656.635 $\pm$ 0.233 χ^2/NDF : 1833979.8/45

All: 1649.031 $\pm$ 0.168 χ^2/NDF : 3222628.6/86

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 13.378 $\pm$ 0.509 χ^2 /NDF: 673.3/17

Left Out: 2.280 $\pm$ 0.338 χ^2 /NDF: 75.6/24

Right Out: 6.204 $\pm$ 0.409 χ^2 /NDF: 548.3/20

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

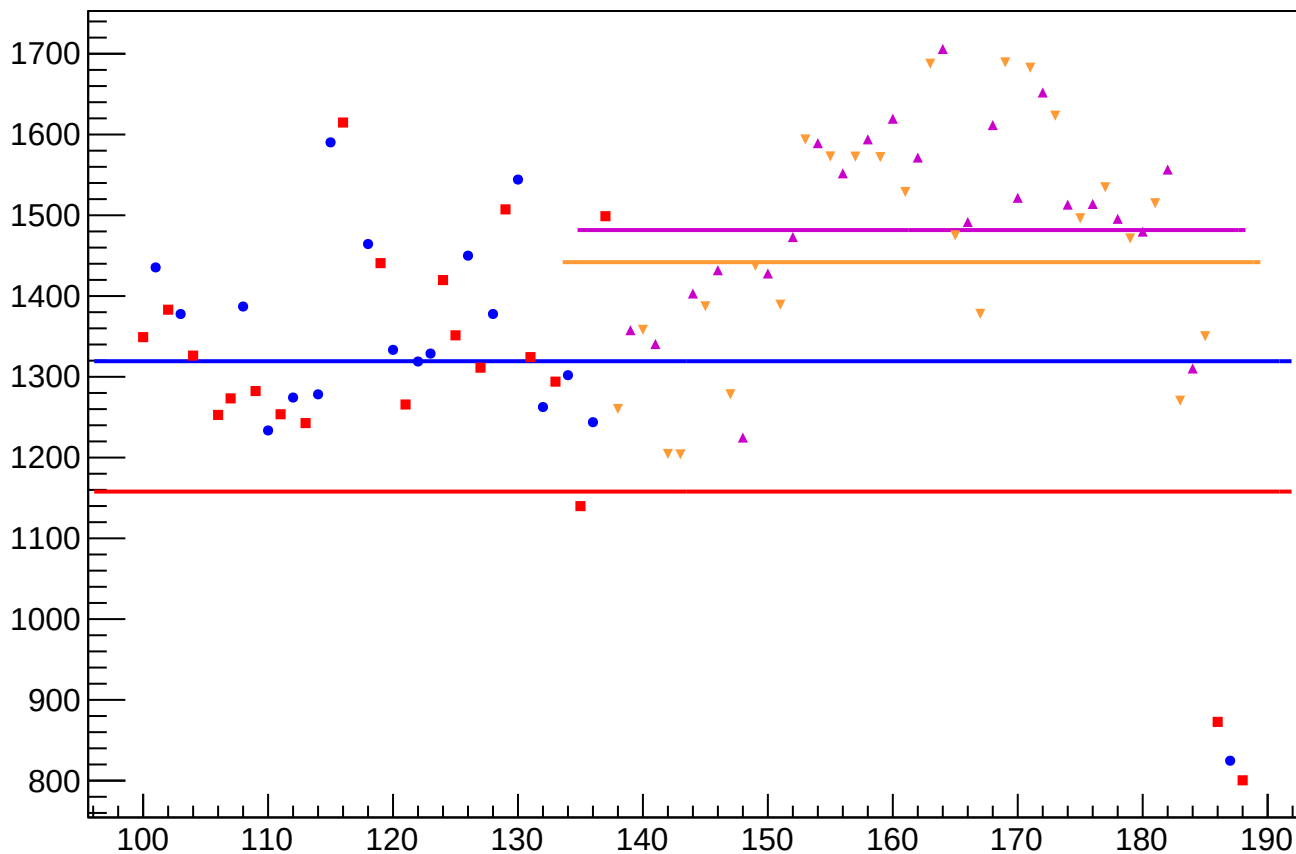
Right: 9.023 $\pm$ 0.319 χ^2 /NDF: 1342.3/38

In: 2.329 $\pm$ 0.293 χ^2 /NDF: 1481.1/40

Out: 3.872 $\pm$ 0.261 χ^2 /NDF: 678.5/45

All: 3.189 $\pm$ 0.195 χ^2 /NDF: 2175.0/86

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1319.321 ± 0.360 $\chi^2/\text{NDF}: 179344.8/17$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1157.905 ± 0.289 $\chi^2/\text{NDF}: 717723.1/20$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

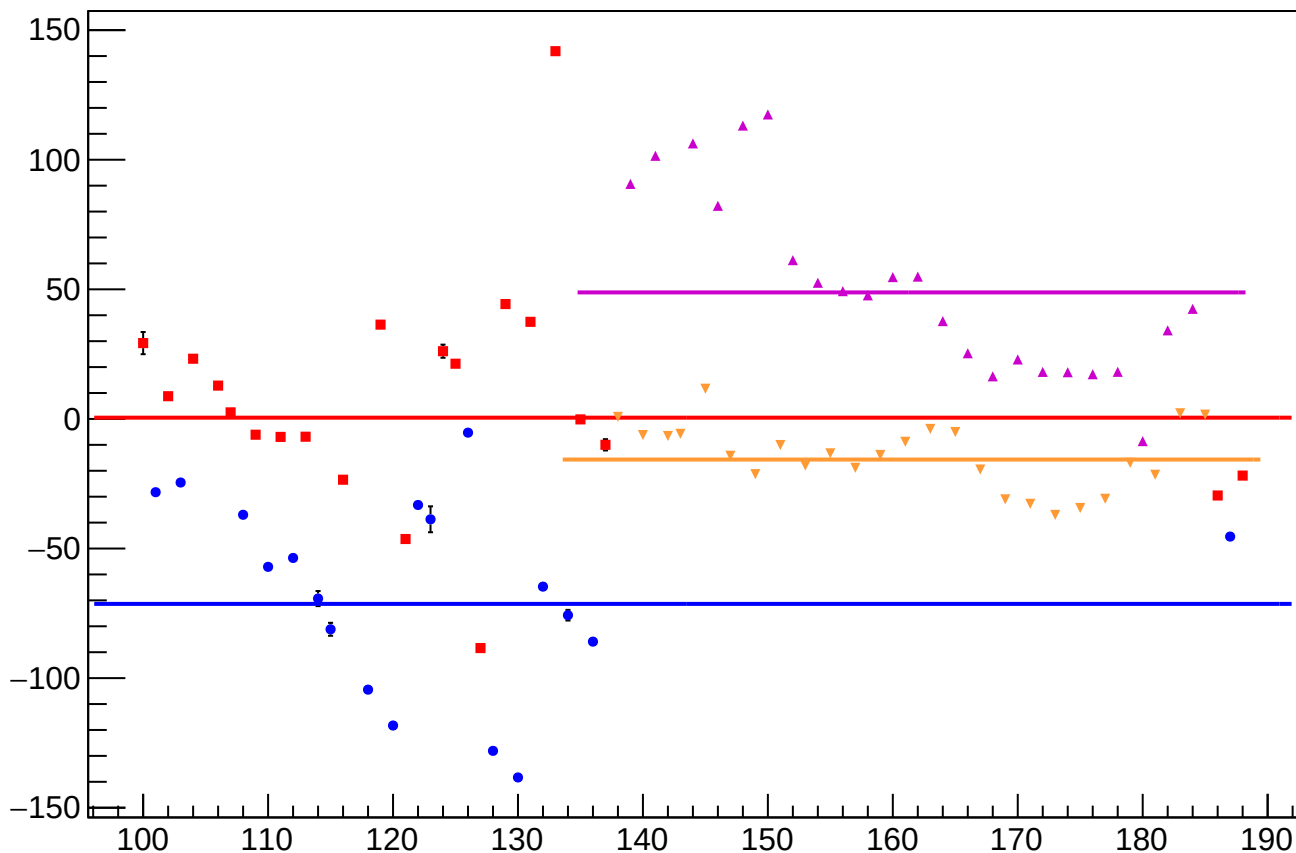
Right: 1221.336 ± 0.226 $\chi^2/\text{NDF}: 1019237.7/38$

In: 1428.007 ± 0.207 $\chi^2/\text{NDF}: 524130.2/40$

Out: 1326.722 ± 0.184 $\chi^2/\text{NDF}: 1660505.9/45$

All: 1371.556 ± 0.138 $\chi^2/\text{NDF}: 2318204.5/86$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -71.357 ± 0.354 $\chi^2/\text{NDF}: 11876.4/17$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: 0.490 ± 0.297 $\chi^2/\text{NDF}: 20990.5/20$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

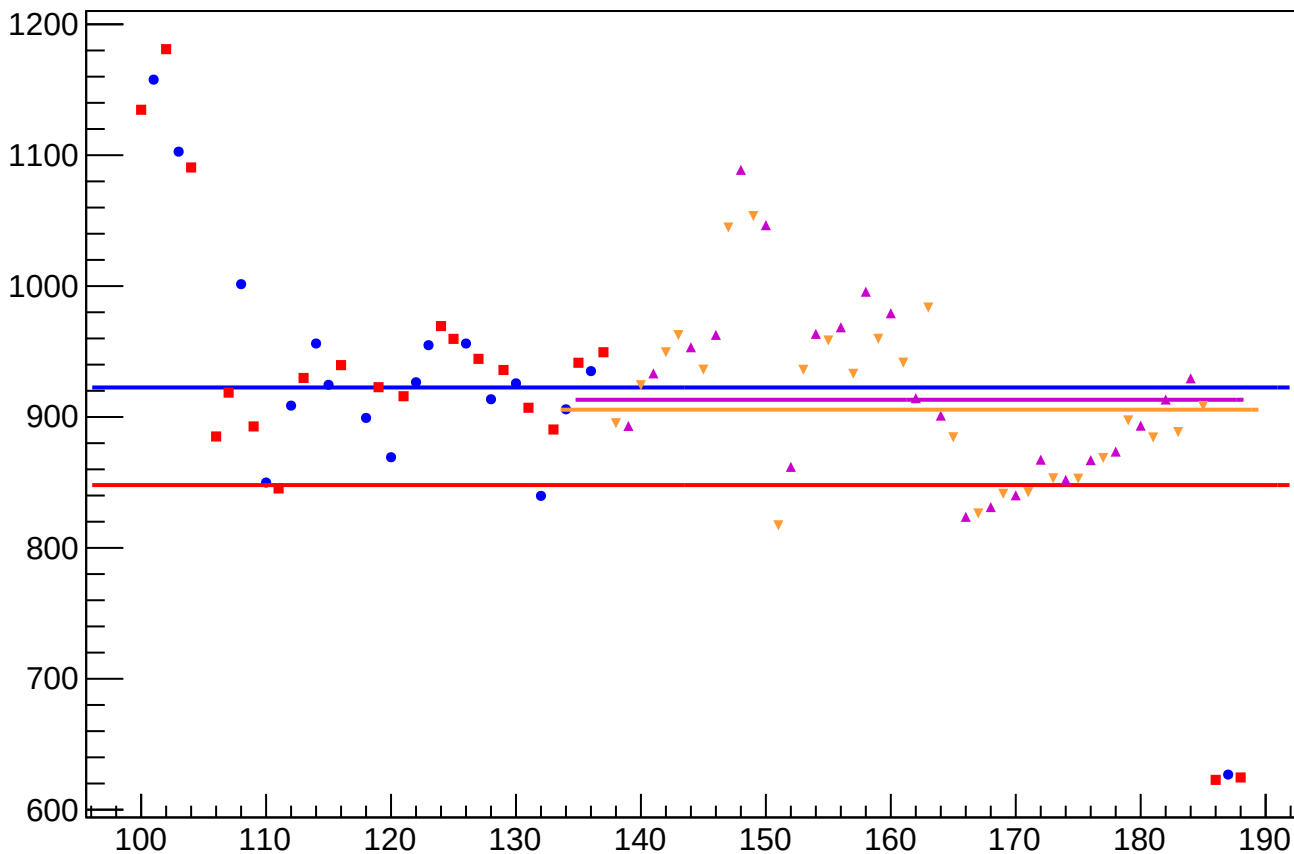
Right: -29.231 ± 0.228 $\chi^2/\text{NDF}: 56997.0/38$

In: 15.381 ± 0.187 $\chi^2/\text{NDF}: 120237.1/40$

Out: -10.241 ± 0.172 $\chi^2/\text{NDF}: 26467.7/45$

All: 1.543 ± 0.127 $\chi^2/\text{NDF}: 156865.5/86$

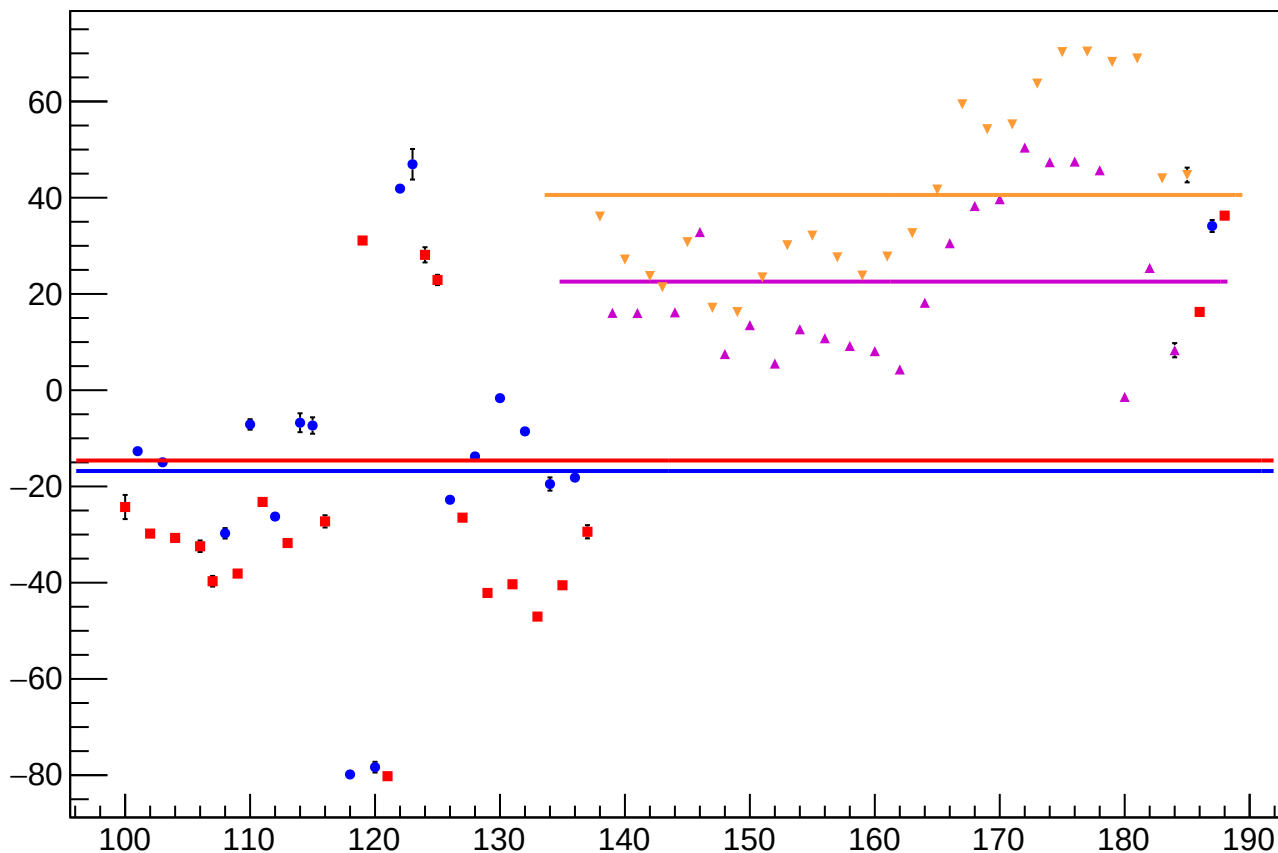
diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 922.557 ± 0.250 $\chi^2/\text{NDF}: 168929.1/17$
 Left Out: 905.578 ± 0.150 $\chi^2/\text{NDF}: 162073.5/24$
 Right Out: 847.984 ± 0.210 $\chi^2/\text{NDF}: 552431.2/20$
 Left In: 913.165 ± 0.155 $\chi^2/\text{NDF}: 174438.8/22$

Left: 909.225 ± 0.108 $\chi^2/\text{NDF}: 337749.0/47$
 Right: 878.832 ± 0.161 $\chi^2/\text{NDF}: 773352.0/38$
 In: 915.778 ± 0.132 $\chi^2/\text{NDF}: 344383.1/40$
 Out: 886.238 ± 0.122 $\chi^2/\text{NDF}: 764299.9/45$
 All: 899.824 ± 0.090 $\chi^2/\text{NDF}: 1135693.4/86$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -16.791±0.239 χ^2/NDF : 14726.8/17

Left Out: 40.573±0.168 χ^2/NDF :12079.0/24

Right Out: -14.609±0.206 χ^2/NDF : 27437.2/20

Left In: 22.565±0.175 χ^2/NDF :8167.7/22

Left: 31.959±0.121 χ^2/NDF : 25752.7/47

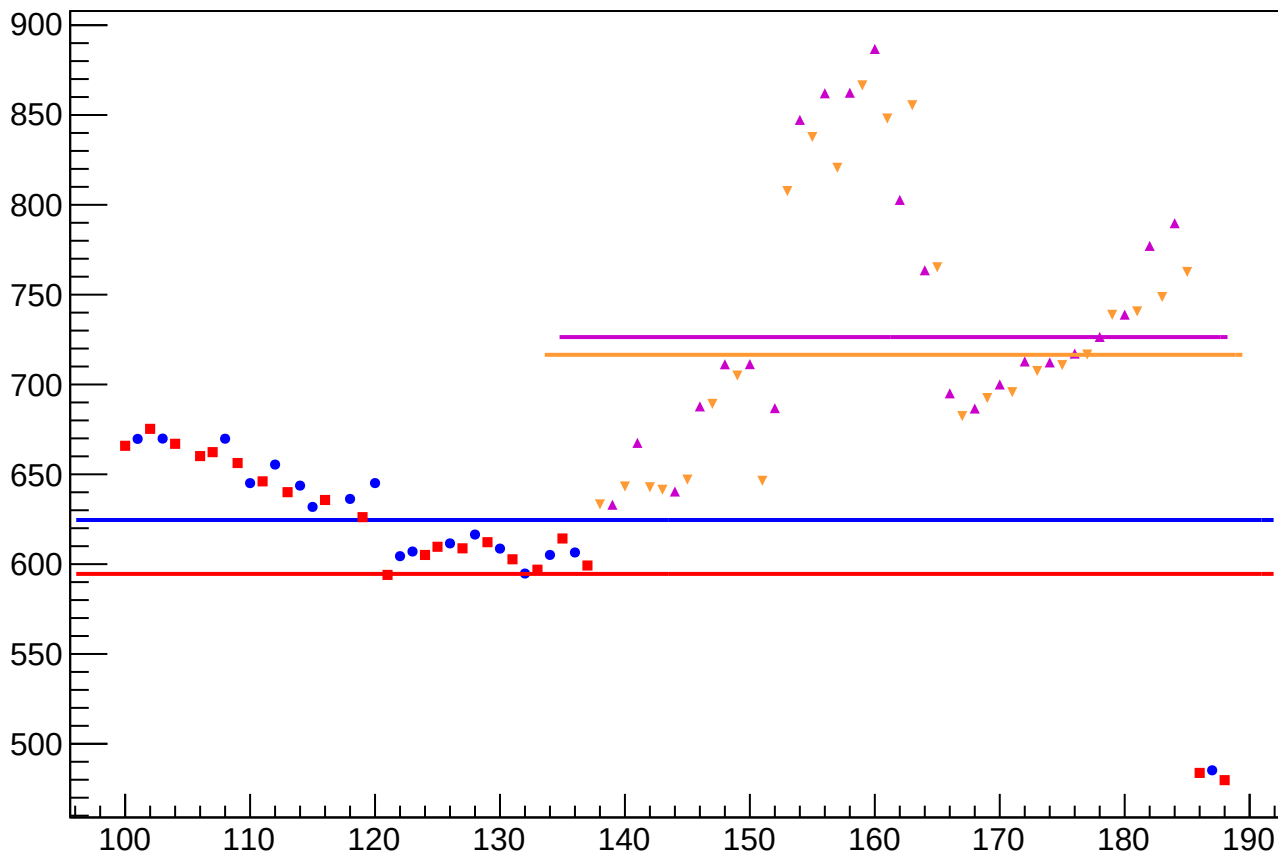
Right: -15.542±0.156 χ^2/NDF : 42211.8/38

In: 8.772±0.141 χ^2/NDF :40563.6/40

Out: 18.600±0.130 χ^2/NDF :82557.7/45

All: 14.086±0.096 χ^2/NDF : 125738.6/86

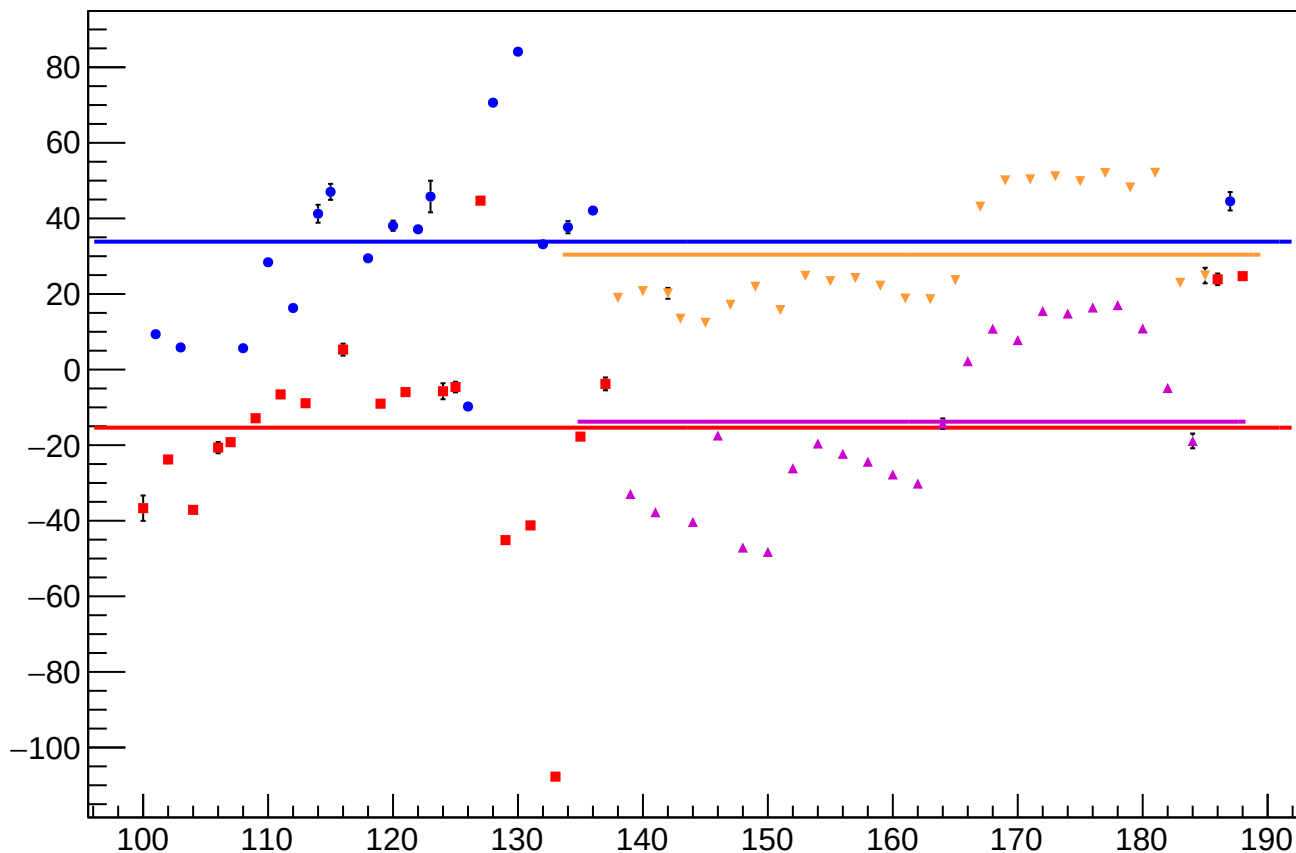
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 624.571 ± 0.169 χ^2/NDF : 49121.4/17
 Left Out: 716.515 ± 0.119 χ^2/NDF : 342740.2/24
 Right Out: 594.566 ± 0.146 χ^2/NDF : 211482.0/20
 Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

Left: 721.238 ± 0.086 χ^2/NDF : 635840.6/47
 Right: 607.403 ± 0.110 χ^2/NDF : 278698.3/38
 In: 690.704 ± 0.100 χ^2/NDF : 575431.2/40
 Out: 667.956 ± 0.092 χ^2/NDF : 974645.9/45
 All: 678.405 ± 0.068 χ^2/NDF : 1578117.8/86

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.855+/-0.298 χ^2/NDF : 6447.7/17

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -15.367+/-0.276 χ^2/NDF : 13858.5/20

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

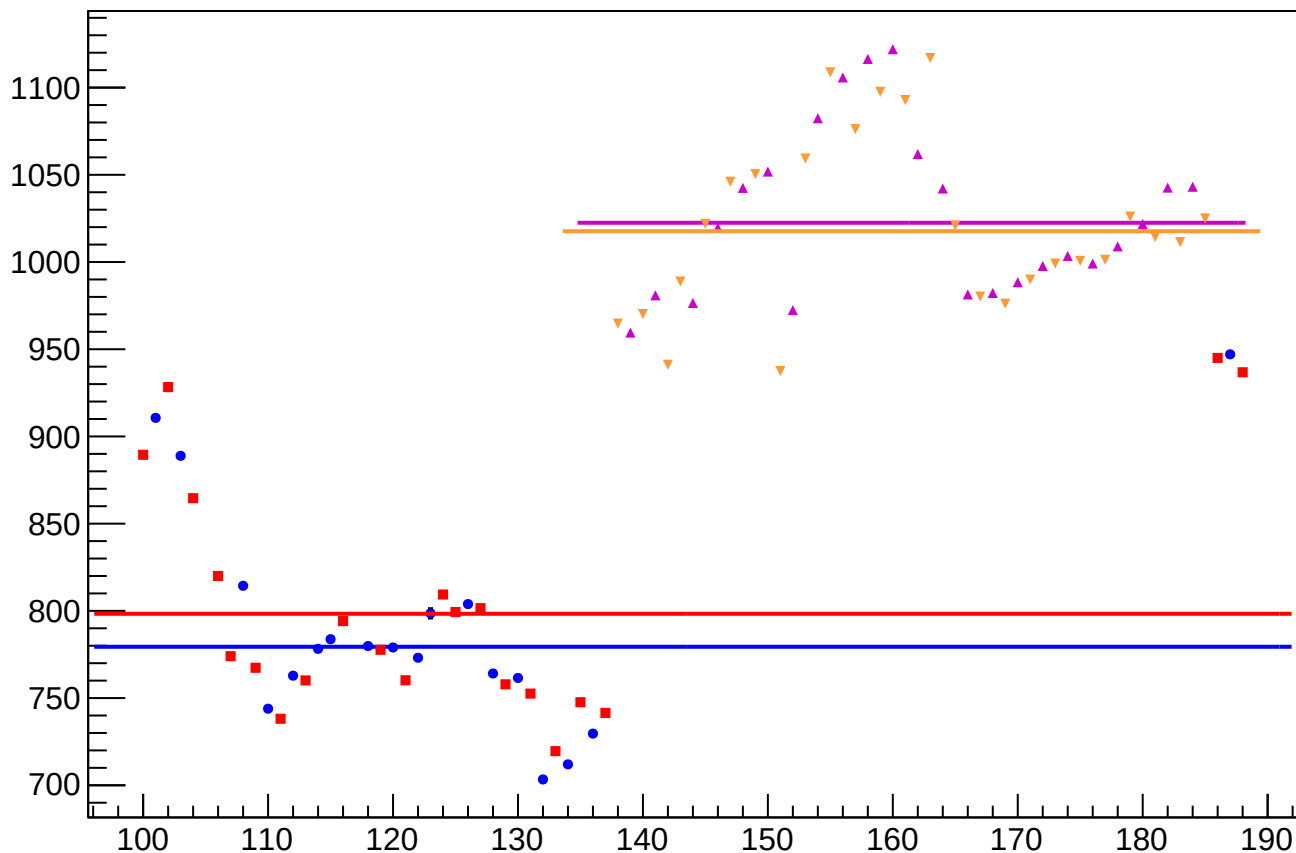
Right: 7.380+/-0.203 χ^2/NDF : 34963.3/38

In: 5.492+/-0.190 χ^2/NDF : 29625.7/40

Out: 10.974+/-0.180 χ^2/NDF : 33451.4/45

All: 8.375+/-0.131 χ^2/NDF : 63516.4/86

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 779.420 $\pm$ 0.211 χ^2 /NDF: 77067.5/17

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 798.334 $\pm$ 0.195 χ^2 /NDF: 121874.5/20

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

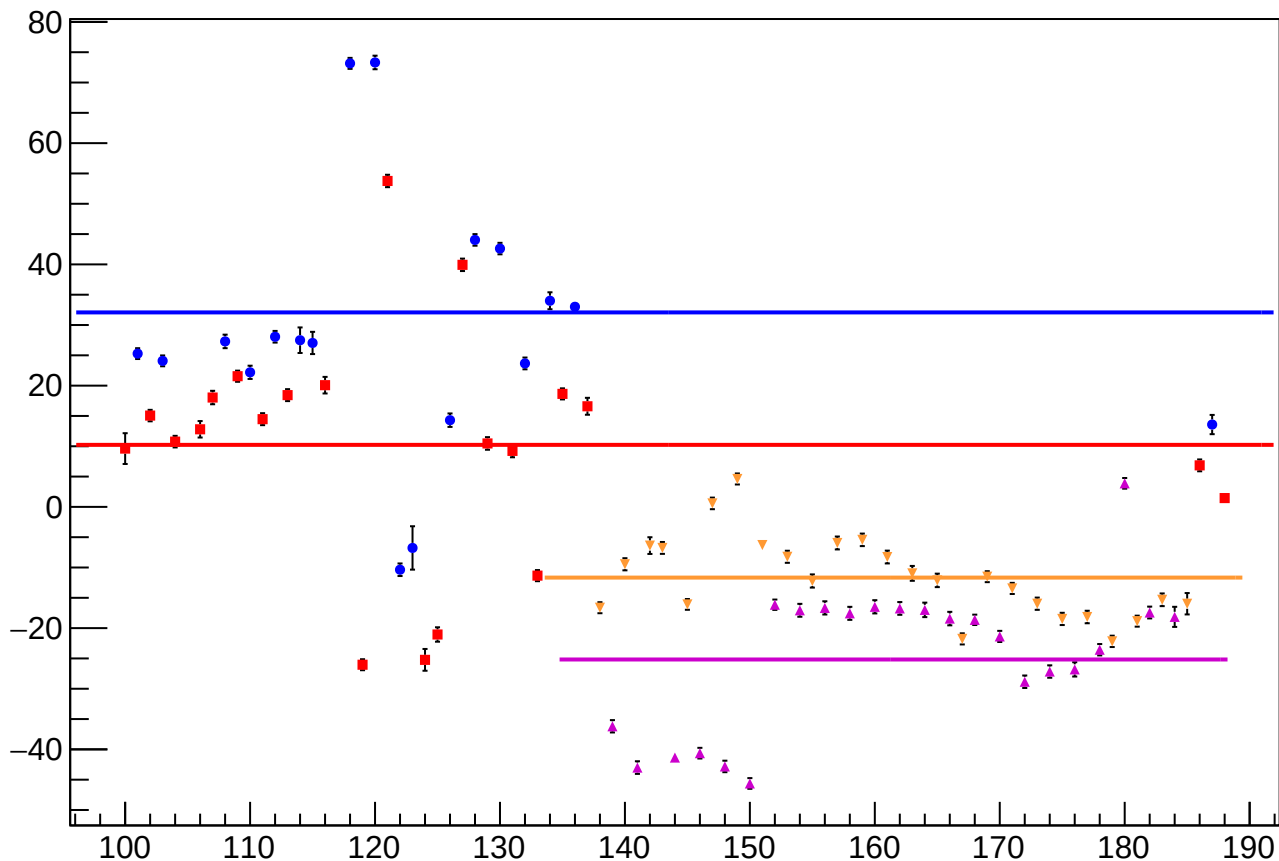
Right: 789.593 $\pm$ 0.143 χ^2 /NDF: 203270.5/38

In: 924.142 $\pm$ 0.134 χ^2 /NDF: 938102.3/40

Out: 924.539 $\pm$ 0.127 χ^2 /NDF: 930201.4/45

All: 924.351 $\pm$ 0.092 χ^2 /NDF: 1868308.3/86

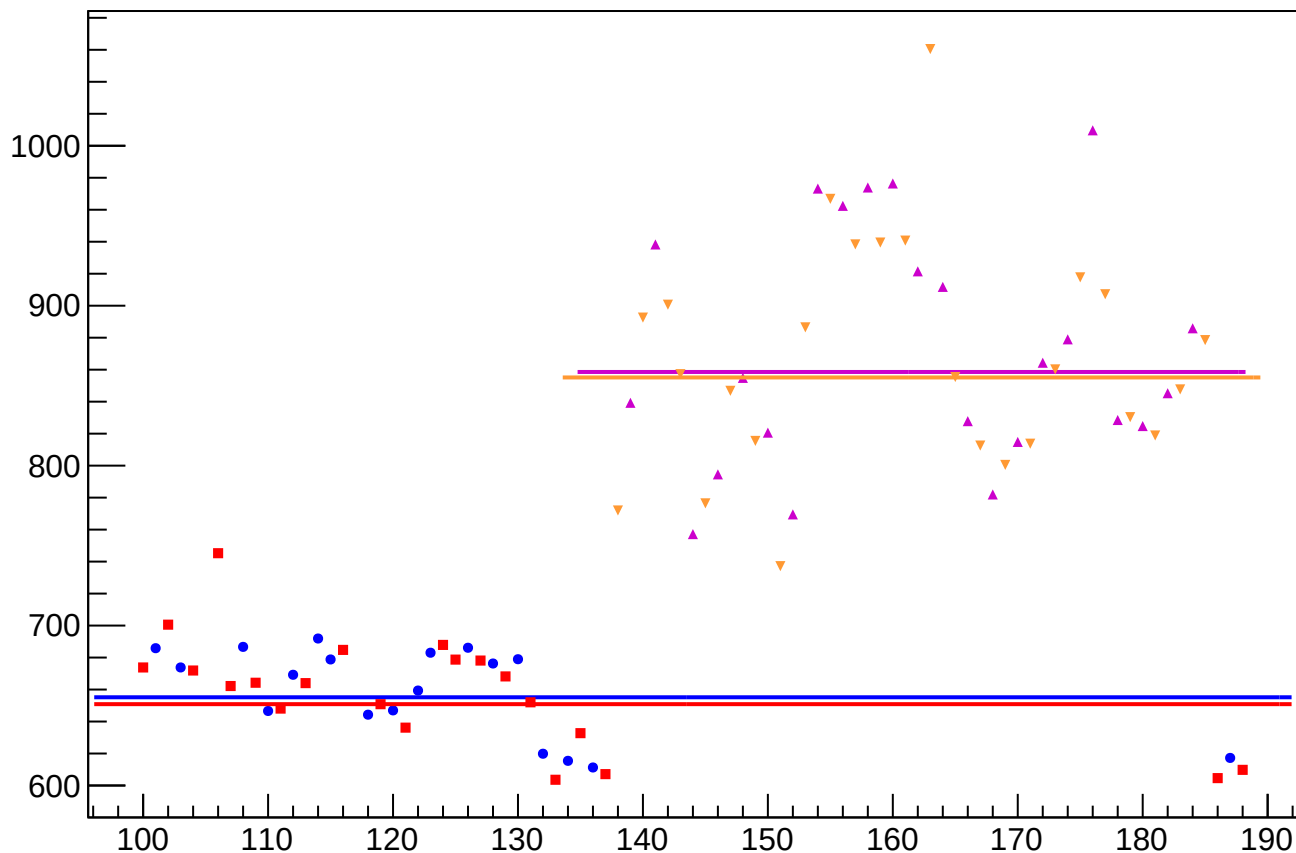
diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.079 $\pm$ 0.250 χ^2 /NDF: 6216.7/17
 Left Out: -11.664 $\pm$ 0.200 χ^2 /NDF: 1147.4/24
 Right Out: 10.231 $\pm$ 0.225 χ^2 /NDF: 6547.1/20
 Left In: -25.174 $\pm$ 0.207 χ^2 /NDF: 3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2 /NDF: 7090.4/47
 Right: 19.995 $\pm$ 0.167 χ^2 /NDF: 16983.6/38
 In: -1.851 $\pm$ 0.160 χ^2 /NDF: 41014.2/40
 Out: -1.977 $\pm$ 0.150 χ^2 /NDF: 12981.8/45
 All: -1.918 $\pm$ 0.109 χ^2 /NDF: 53996.3/86

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 655.167 $\pm$ 0.177 χ^2 /NDF: 24687.9/17

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF:233746.7/24

Right Out: 650.864 $\pm$ 0.159 χ^2 /NDF: 43476.6/20

Left In: 858.563 $\pm$ 0.147 χ^2 /NDF:239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2 /NDF: 473049.9/47

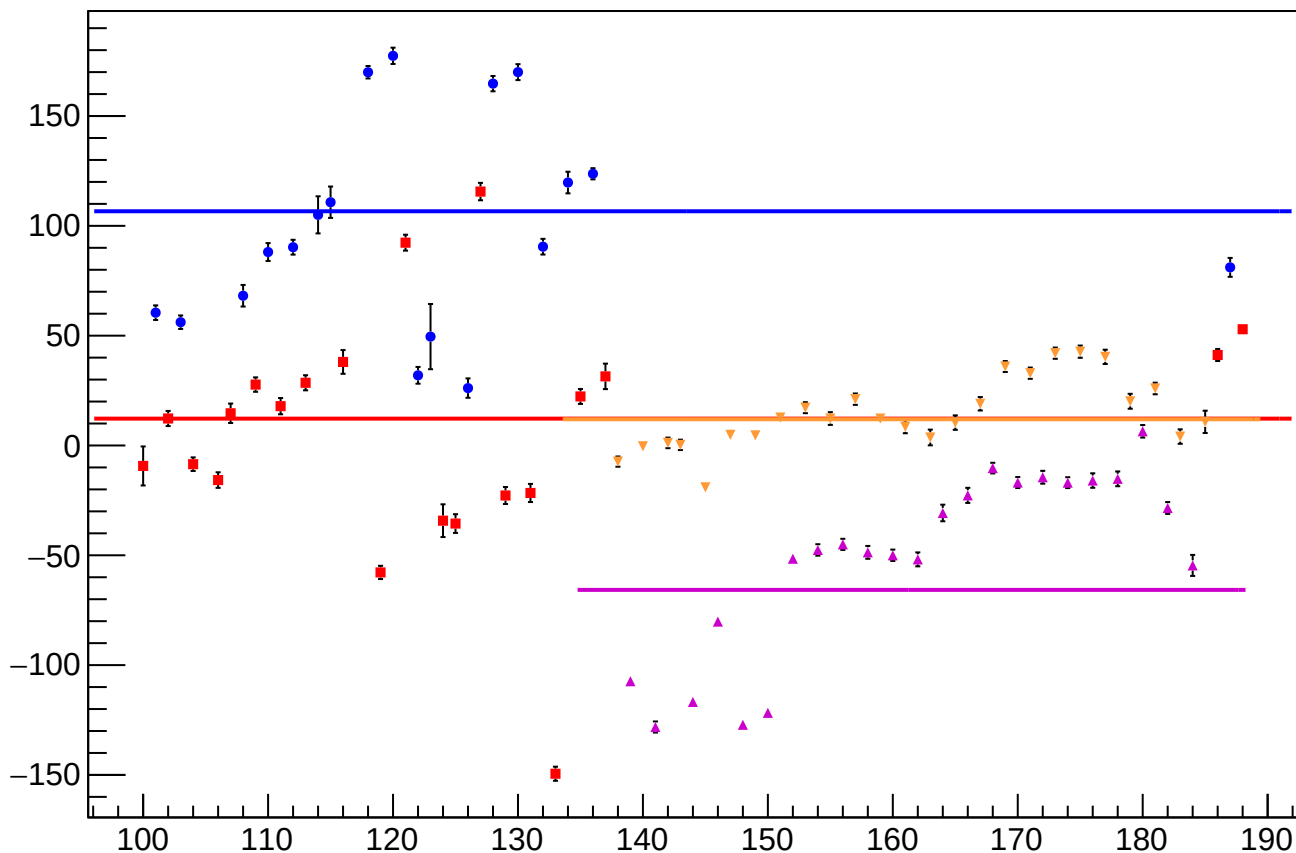
Right: 652.787 $\pm$ 0.118 χ^2 /NDF: 68491.8/38

In: 775.706 $\pm$ 0.113 χ^2 /NDF:1047491.4/40

Out: 764.759 $\pm$ 0.106 χ^2 /NDF:1197617.7/45

All: 769.876 $\pm$ 0.077 χ^2 /NDF: 2250117.7/86

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 106.640 $\pm$ 0.903 χ^2 /NDF: 2852.7/17

Left Out: 11.938 $\pm$ 0.505 χ^2 /NDF:976.6/24

Right Out: 12.225 $\pm$ 0.758 χ^2 /NDF: 5414.2/20

Left In: -65.752 $\pm$ 0.518 χ^2 /NDF:7335.8/22

Left: -25.968 $\pm$ 0.362 χ^2 /NDF: 19845.5/47

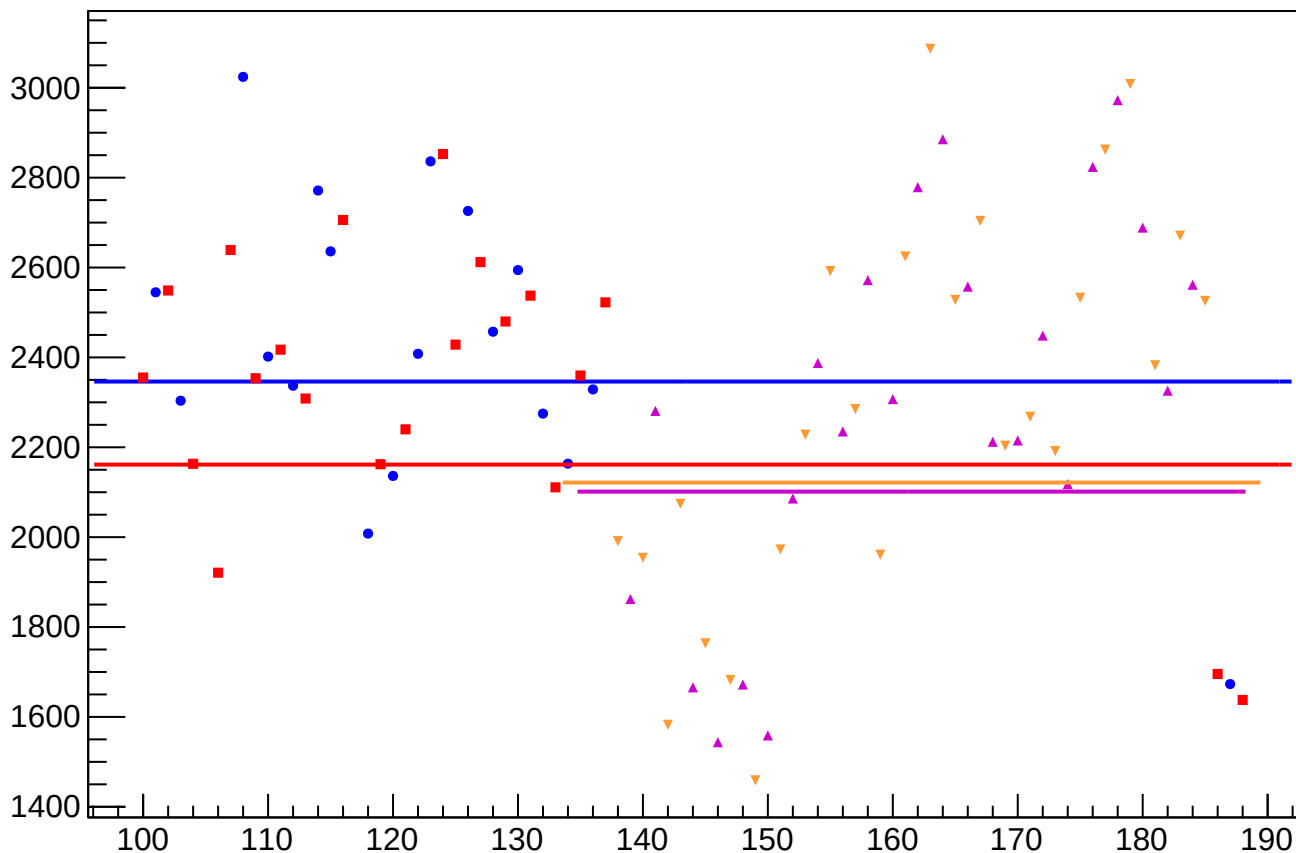
Right: 51.248 $\pm$ 0.580 χ^2 /NDF: 14687.0/38

In: -23.076 $\pm$ 0.449 χ^2 /NDF:37640.4/40

Out: 12.027 $\pm$ 0.420 χ^2 /NDF:6391.0/45

All: -4.368 $\pm$ 0.307 χ^2 /NDF: 47288.0/86

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2346.288+/-0.638 χ^2/NDF : 170655.7/17

Left Out: 2121.567+/-0.357 χ^2/NDF : 1387847.6/24

Right Out: 2161.507+/-0.536 χ^2/NDF : 436022.5/20

Left In: 2101.325+/-0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691+/-0.256 χ^2/NDF : 2749931.8/47

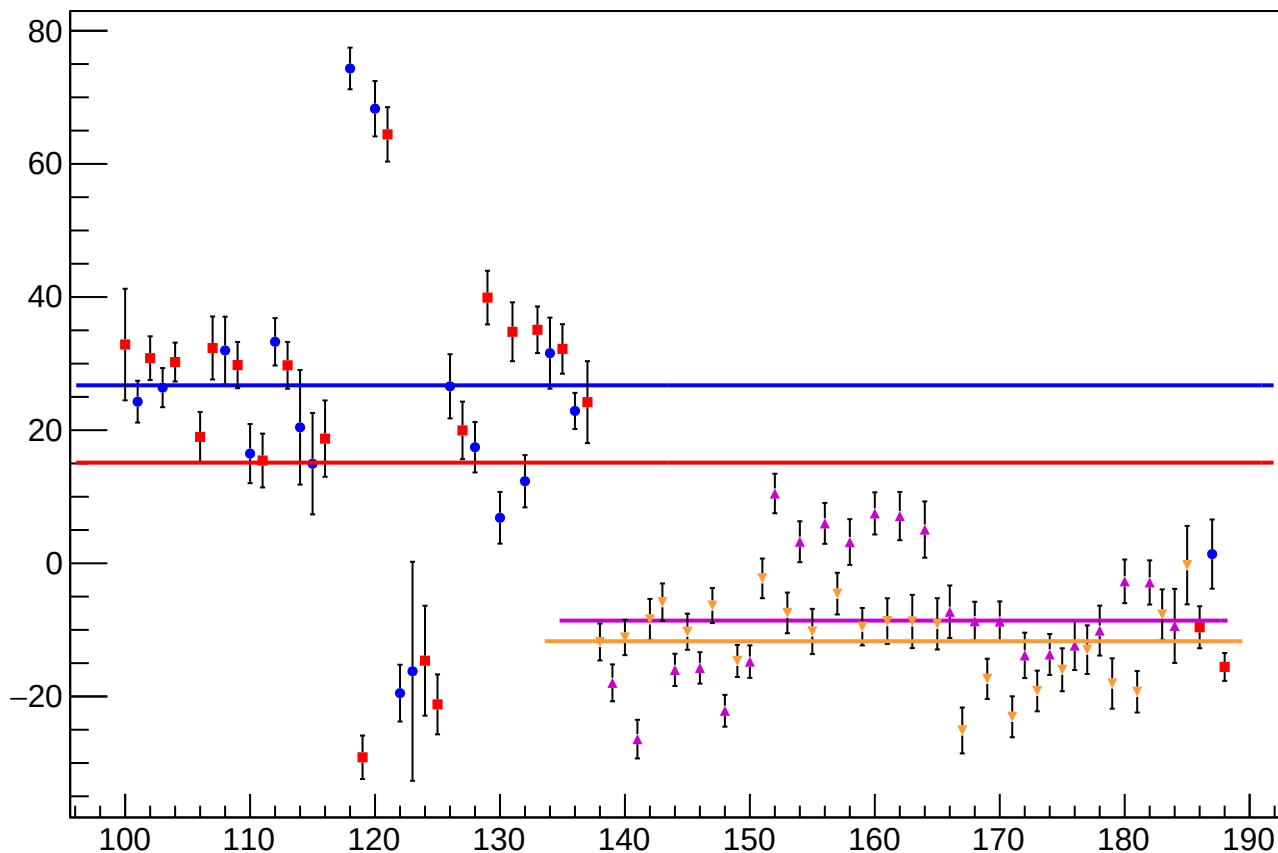
Right: 2237.880+/-0.410 χ^2/NDF : 655860.7/38

In: 2161.966+/-0.318 χ^2/NDF : 1642033.1/40

Out: 2133.866+/-0.297 χ^2/NDF : 1827717.4/45

All: 2146.990+/-0.217 χ^2/NDF : 3473924.1/86

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 26.738 $\pm$ 0.960 χ^2 /NDF: 541.7/17

Left Out: -11.700 $\pm$ 0.625 χ^2 /NDF: 85.0/24

Right Out: 15.127 $\pm$ 0.819 χ^2 /NDF: 903.0/20

Left In: -8.606 $\pm$ 0.642 χ^2 /NDF: 264.2/22

Left: -10.193 $\pm$ 0.448 χ^2 /NDF: 361.1/47

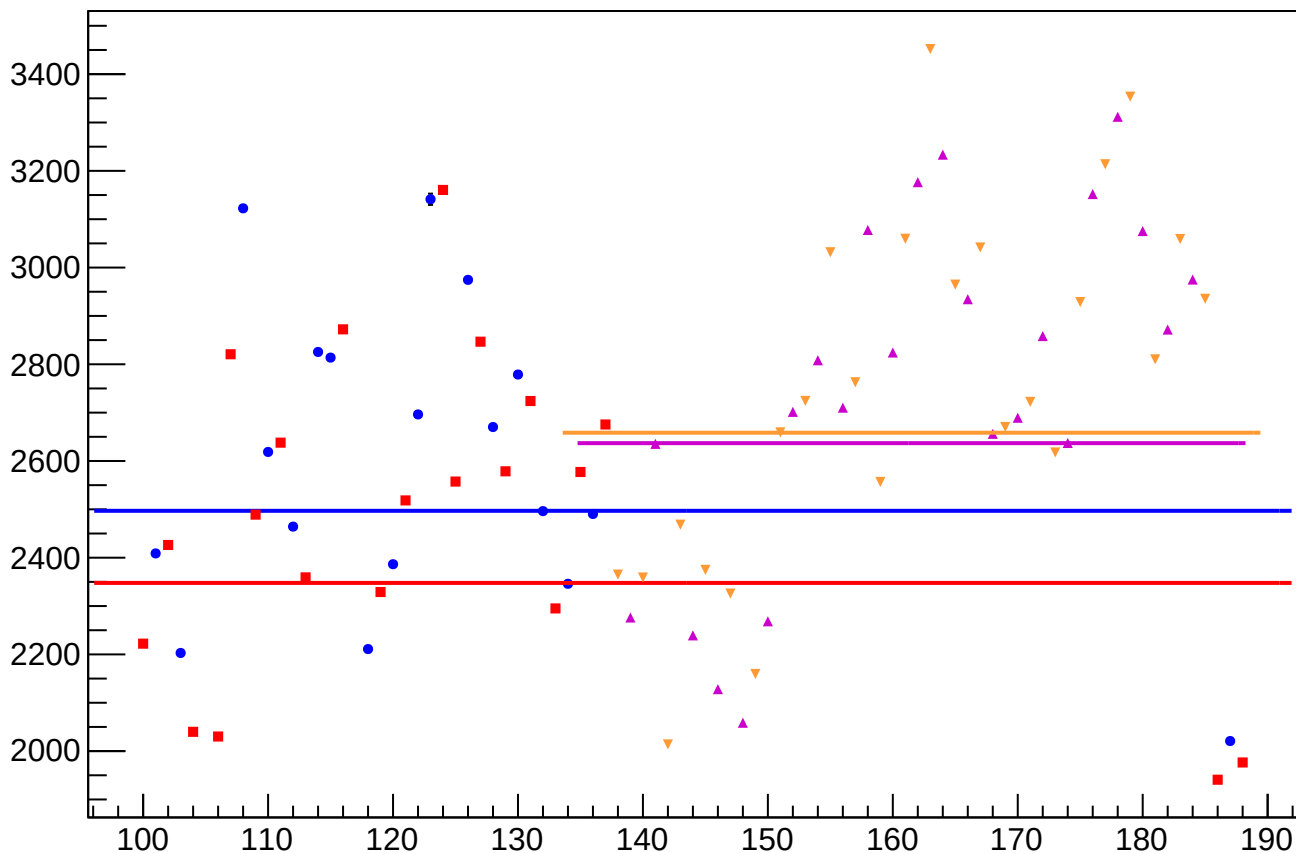
Right: 20.024 $\pm$ 0.623 χ^2 /NDF: 1529.4/38

In: 2.321 $\pm$ 0.534 χ^2 /NDF: 1743.2/40

Out: -1.825 $\pm$ 0.497 χ^2 /NDF: 1665.2/45

All: 0.102 $\pm$ 0.364 χ^2 /NDF: 3440.8/86

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2496.962 $\pm$ 0.679 χ^2/NDF : 138237.9/17

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 2347.826 $\pm$ 0.579 χ^2/NDF : 273599.6/20

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

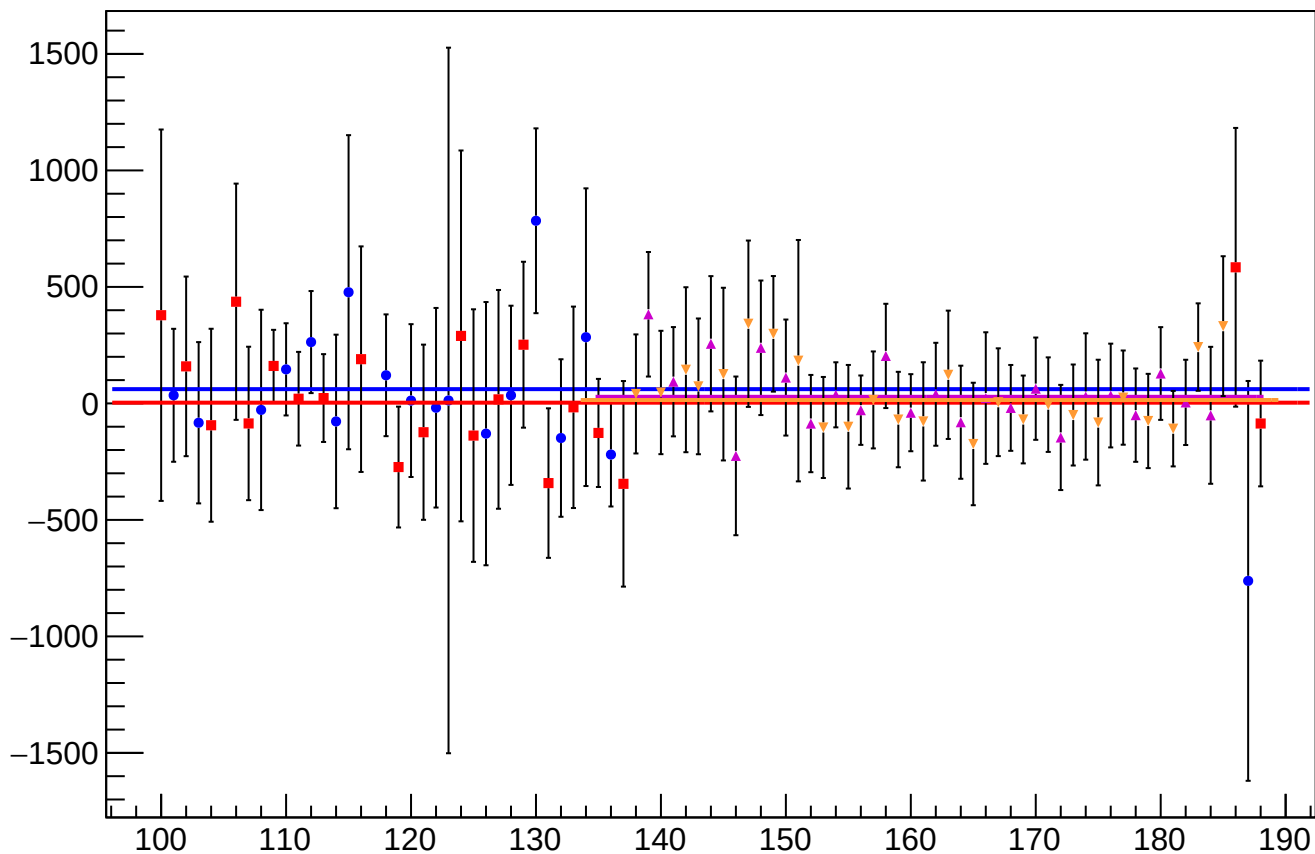
Right: 2410.721 $\pm$ 0.441 χ^2/NDF : 439774.3/38

In: 2593.625 $\pm$ 0.377 χ^2/NDF : 820511.4/40

Out: 2544.131 $\pm$ 0.352 χ^2/NDF : 1073366.7/45

All: 2567.134 $\pm$ 0.257 χ^2/NDF : 1903089.9/86

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 61.219+/-78.904 χ^2/NDF : 8.3/17

Left Out: 14.520+/-47.528 χ^2/NDF : 7.8/24

Right Out: 3.136+/-67.317 χ^2/NDF : 7.5/20

Left In: 28.310+/-44.638 χ^2/NDF : 6.3/22

Left: 21.847+/-32.538 χ^2/NDF : 14.1/47

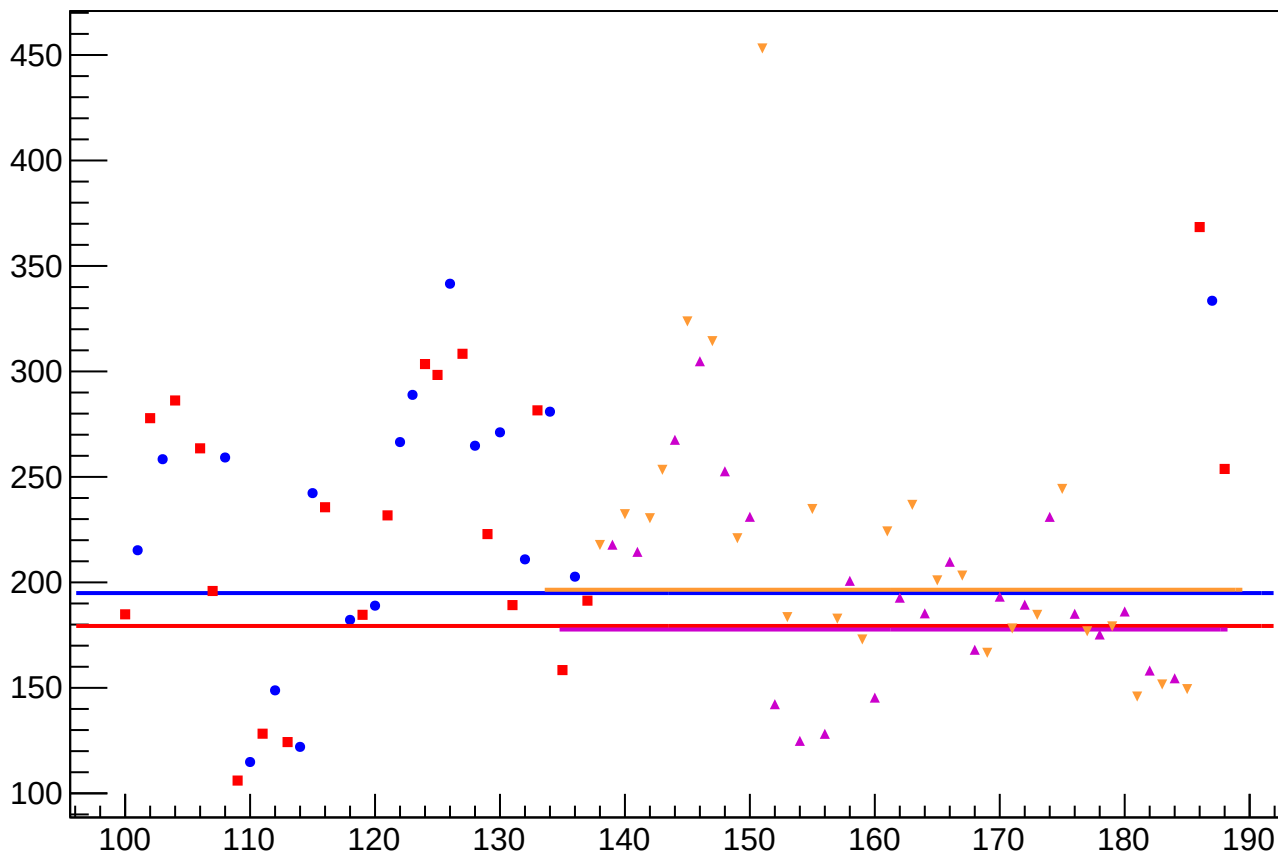
Right: 27.603+/-51.212 χ^2/NDF : 16.2/38

In: 36.289+/-38.852 χ^2/NDF : 14.8/40

Out: 10.733+/-38.826 χ^2/NDF : 15.3/45

All: 23.502+/-27.463 χ^2/NDF : 30.3/86

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.931 $\pm$ 0.056 χ^2 /NDF: 1063725.8/17

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF: 1789504.4/24

Right Out: 179.342 $\pm$ 0.048 χ^2 /NDF: 1947175.6/20

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

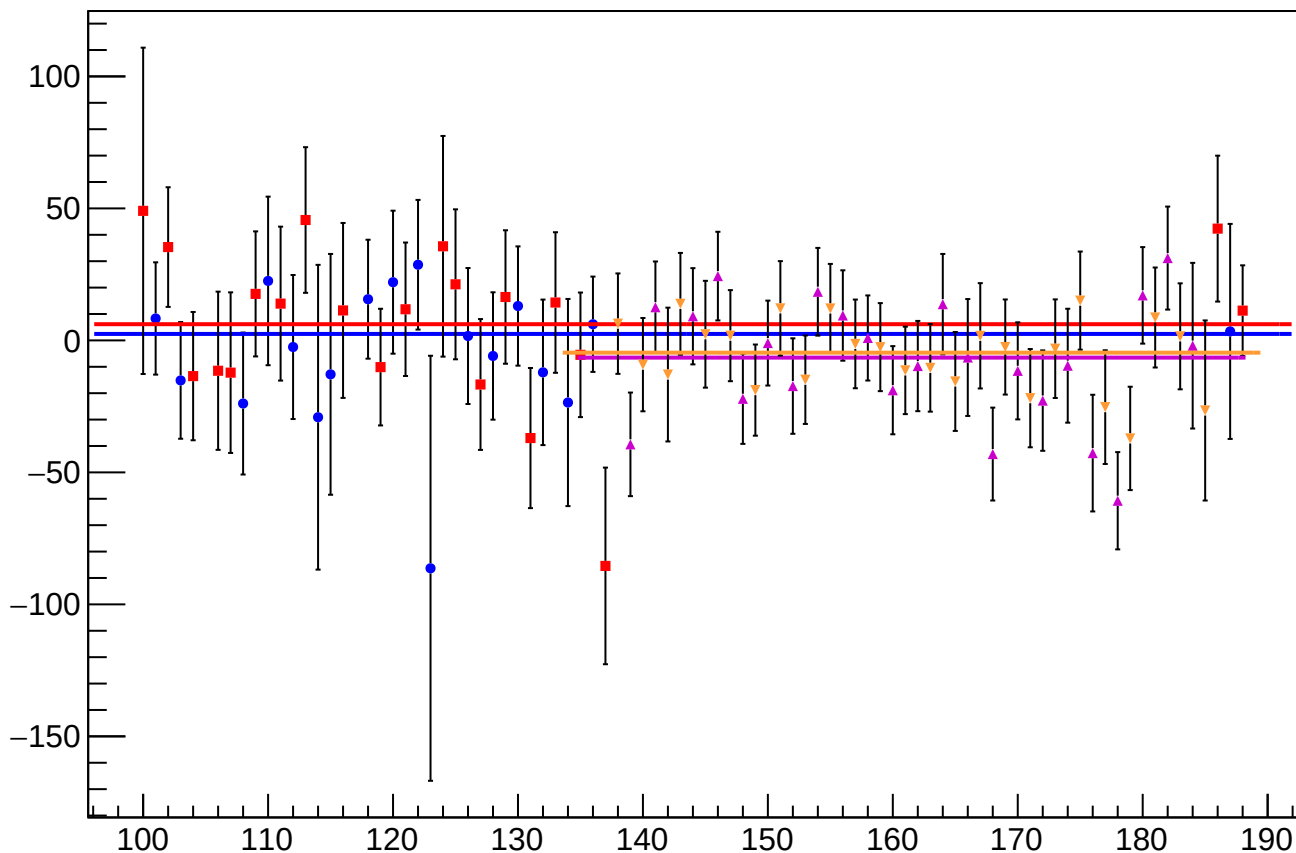
Right: 185.909 $\pm$ 0.036 χ^2 /NDF: 3056082.8/38

In: 181.835 $\pm$ 0.027 χ^2 /NDF: 2767119.1/40

Out: 190.801 $\pm$ 0.027 χ^2 /NDF: 3823533.8/45

All: 186.321 $\pm$ 0.019 χ^2 /NDF: 6643954.6/86

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.447 ± 6.361 $\chi^2/\text{NDF}: 6.8/17$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: 6.137 ± 5.778 $\chi^2/\text{NDF}: 19.1/20$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

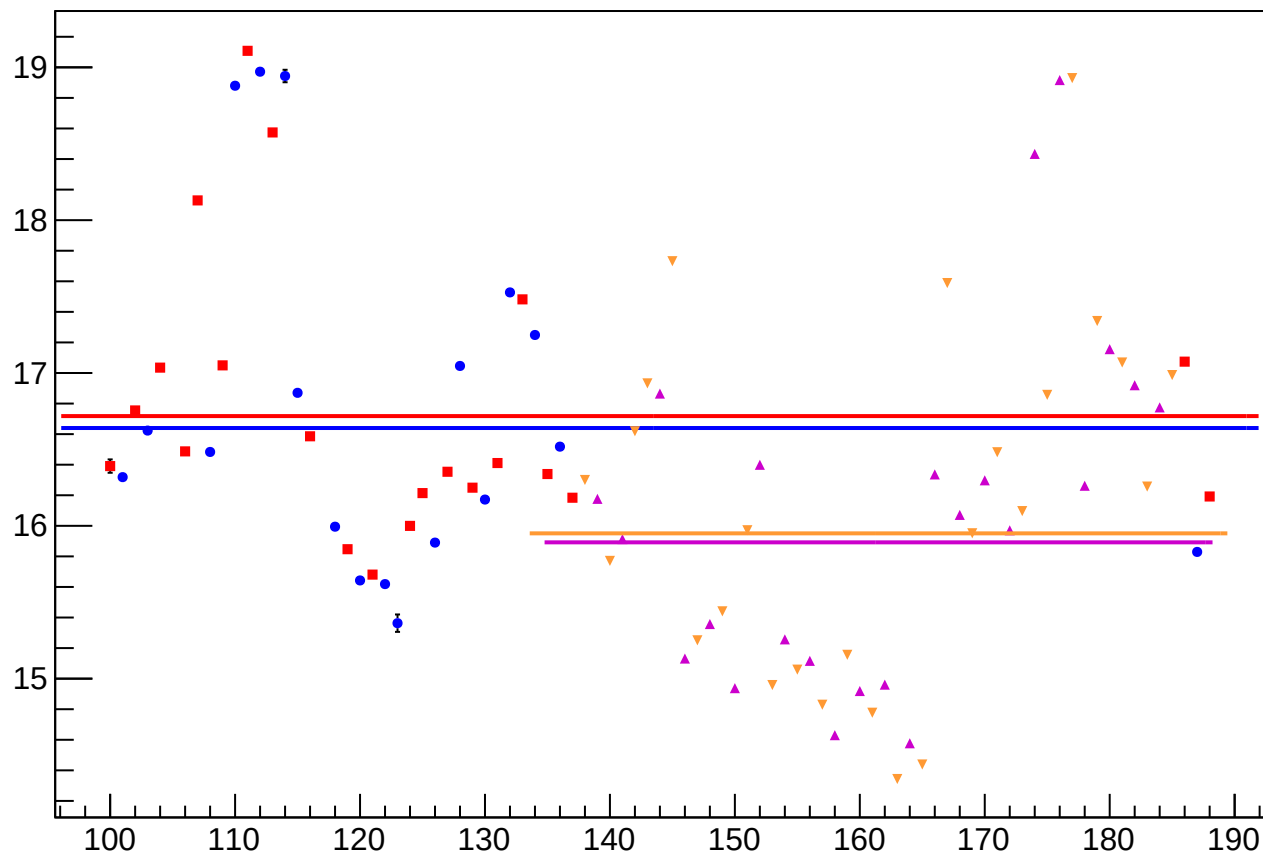
Right: 4.469 ± 4.277 $\chi^2/\text{NDF}: 26.1/38$

In: -4.141 ± 3.280 $\chi^2/\text{NDF}: 44.7/40$

Out: -1.477 ± 3.132 $\chi^2/\text{NDF}: 33.6/45$

All: -2.748 ± 2.265 $\chi^2/\text{NDF}: 78.6/86$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.640 $\pm$ 0.004 χ^2 /NDF: 43081.7/17

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.718 $\pm$ 0.004 χ^2 /NDF: 41608.9/20

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2 /NDF: 320794.5/47

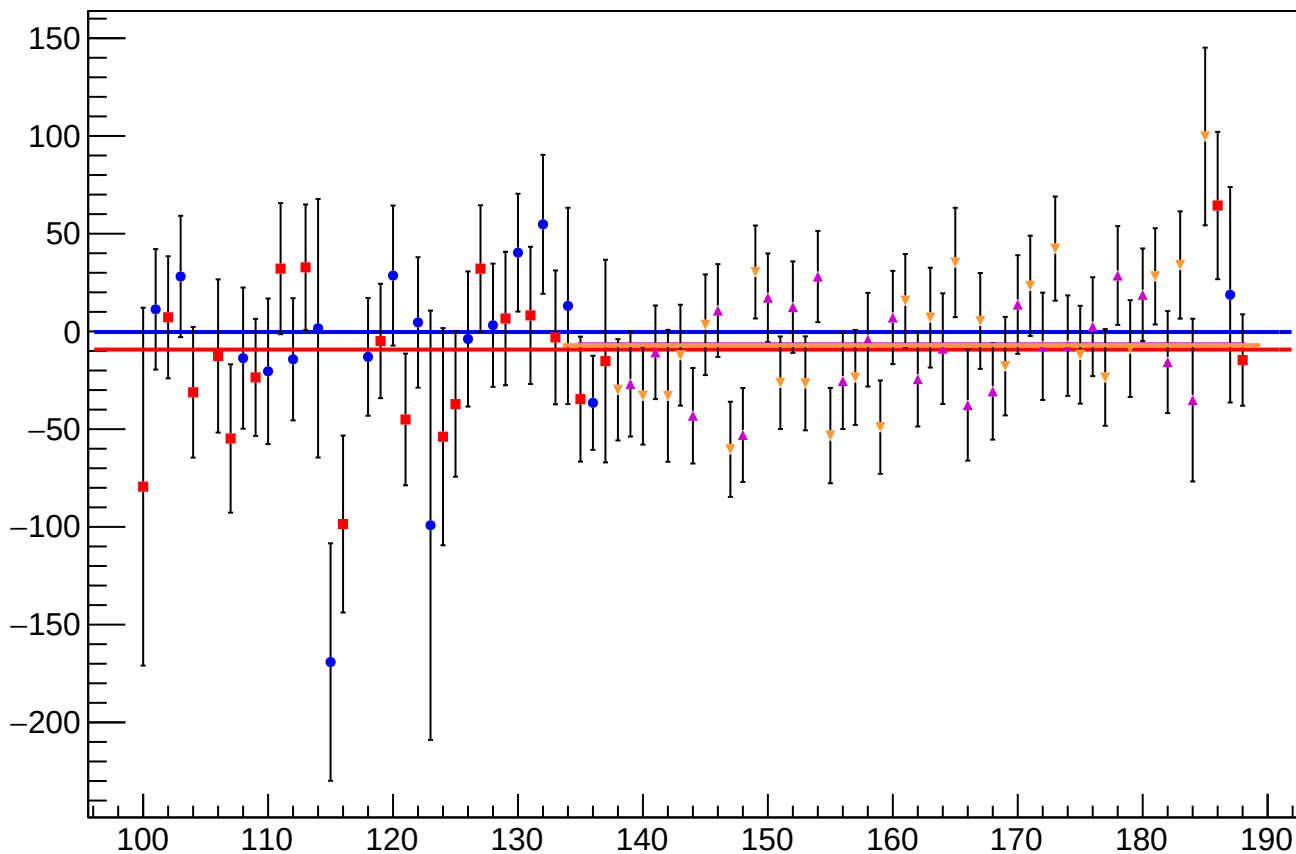
Right: 16.683 $\pm$ 0.003 χ^2 /NDF: 84855.5/38

In: 16.091 $\pm$ 0.002 χ^2 /NDF:210485.1/40

Out: 16.176 $\pm$ 0.002 χ^2 /NDF:239970.2/45

All: 16.135 $\pm$ 0.002 χ^2 /NDF: 451166.0/86

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.310 ± 8.406 $\chi^2/\text{NDF}: 17.7/17$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -9.283 ± 7.602 $\chi^2/\text{NDF}: 19.1/20$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

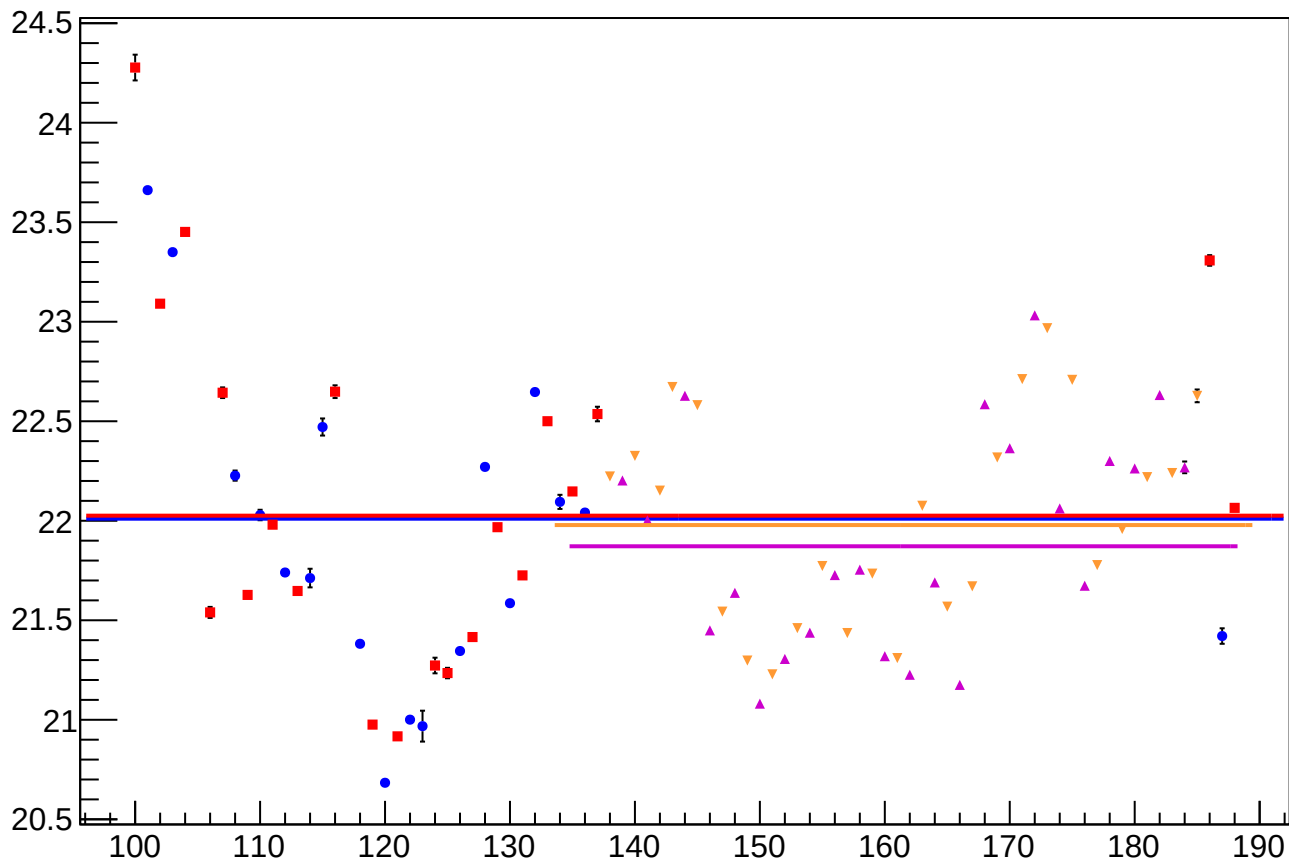
Right: -5.246 ± 5.638 $\chi^2/\text{NDF}: 37.4/38$

In: -4.843 ± 4.454 $\chi^2/\text{NDF}: 37.2/40$

Out: -7.725 ± 4.247 $\chi^2/\text{NDF}: 56.6/45$

All: -6.352 ± 3.074 $\chi^2/\text{NDF}: 94.0/86$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.010 $\pm$ 0.006 χ^2 /NDF: 17615.5/17

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 22.026 $\pm$ 0.005 χ^2 /NDF: 18834.2/20

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

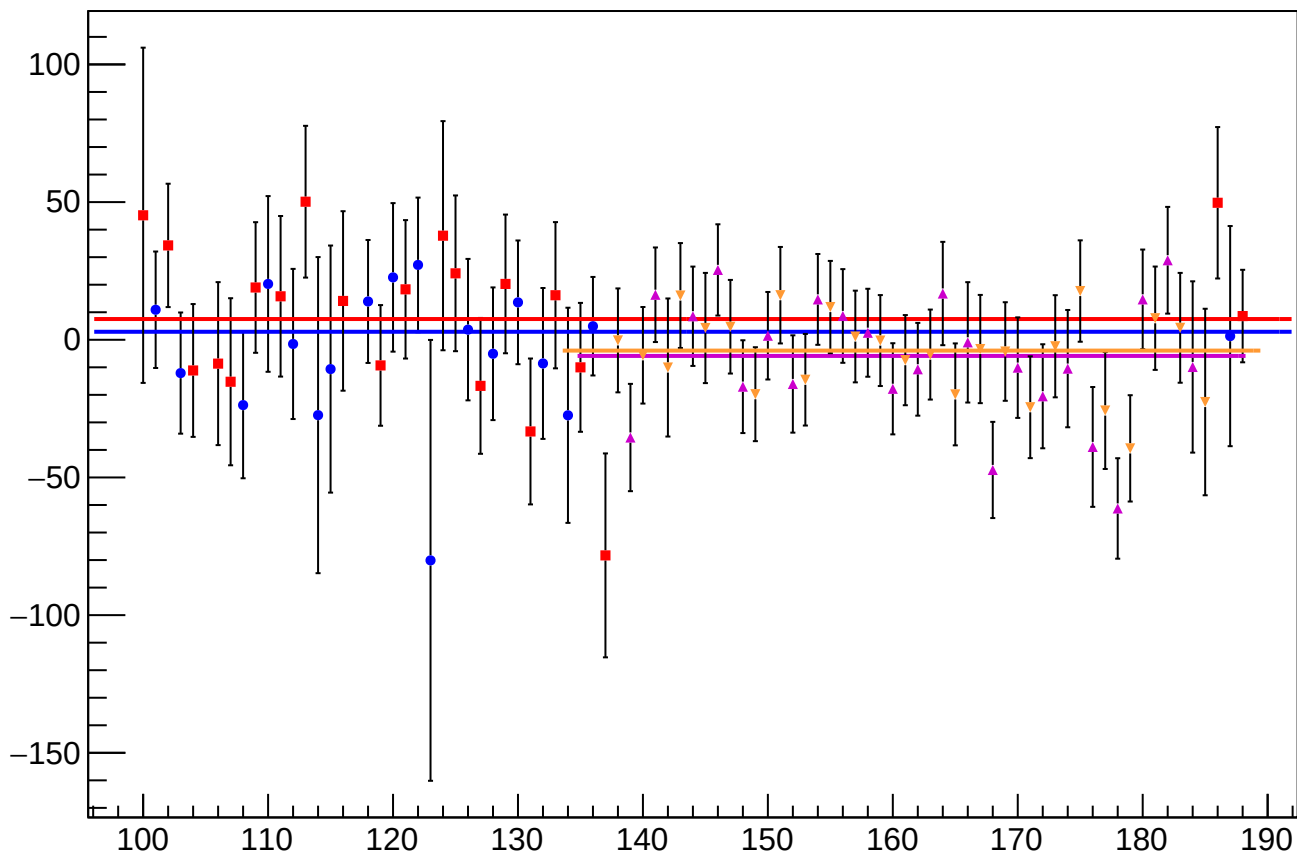
Right: 22.019 $\pm$ 0.004 χ^2 /NDF: 36453.3/38

In: 21.911 $\pm$ 0.003 χ^2 /NDF:38531.7/40

Out: 21.993 $\pm$ 0.003 χ^2 /NDF:38317.5/45

All: 21.954 $\pm$ 0.002 χ^2 /NDF: 77207.9/86

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.908 ± 6.323 χ^2/NDF : 6.3/17

Left Out: -3.927 ± 3.688 χ^2/NDF : 14.0/24

Right Out: 7.537 ± 5.735 χ^2/NDF : 19.7/20

Left In: -5.861 ± 3.787 χ^2/NDF : 36.2/22

Left: -4.869 ± 2.642 χ^2/NDF : 50.3/47

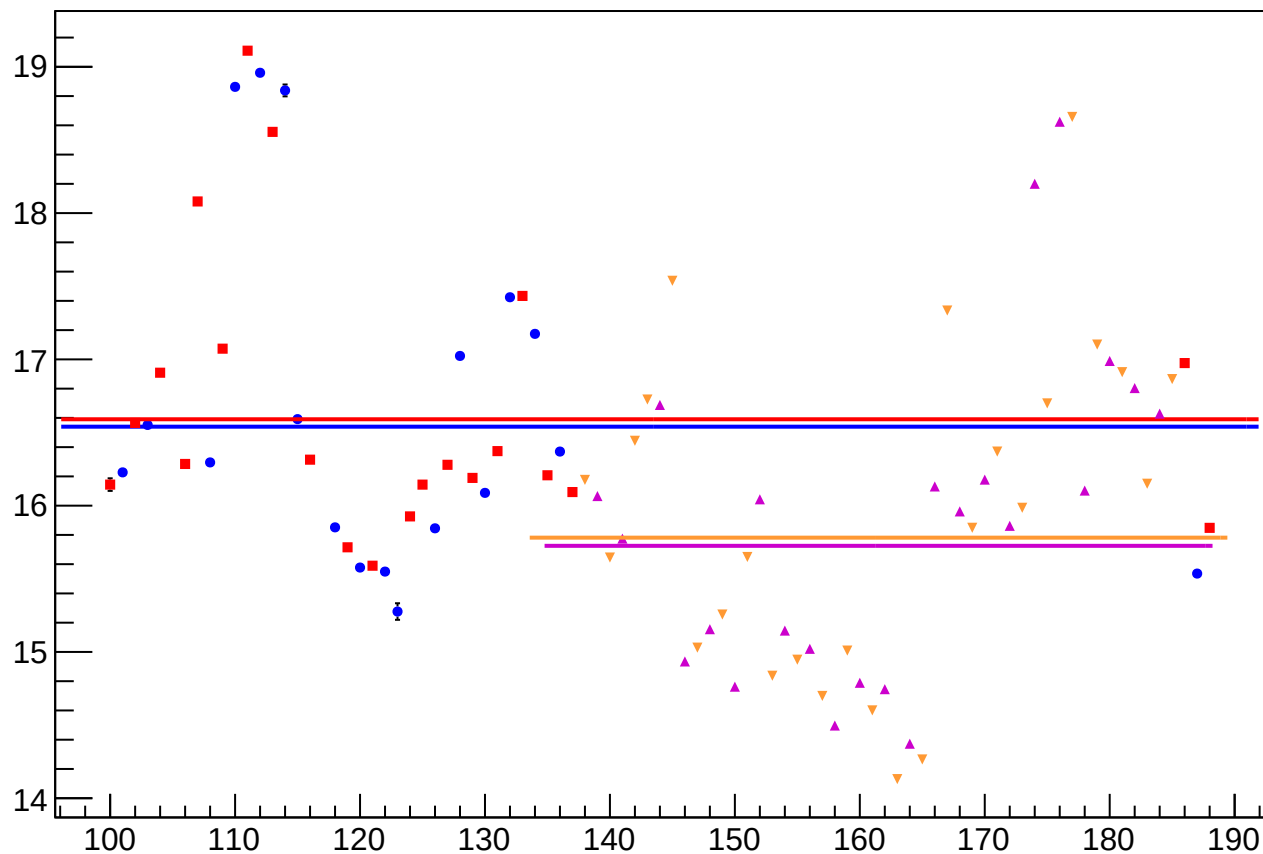
Right: 5.447 ± 4.248 χ^2/NDF : 26.2/38

In: -3.546 ± 3.249 χ^2/NDF : 43.9/40

Out: -0.574 ± 3.102 χ^2/NDF : 36.5/45

All: -1.991 ± 2.244 χ^2/NDF : 80.8/86

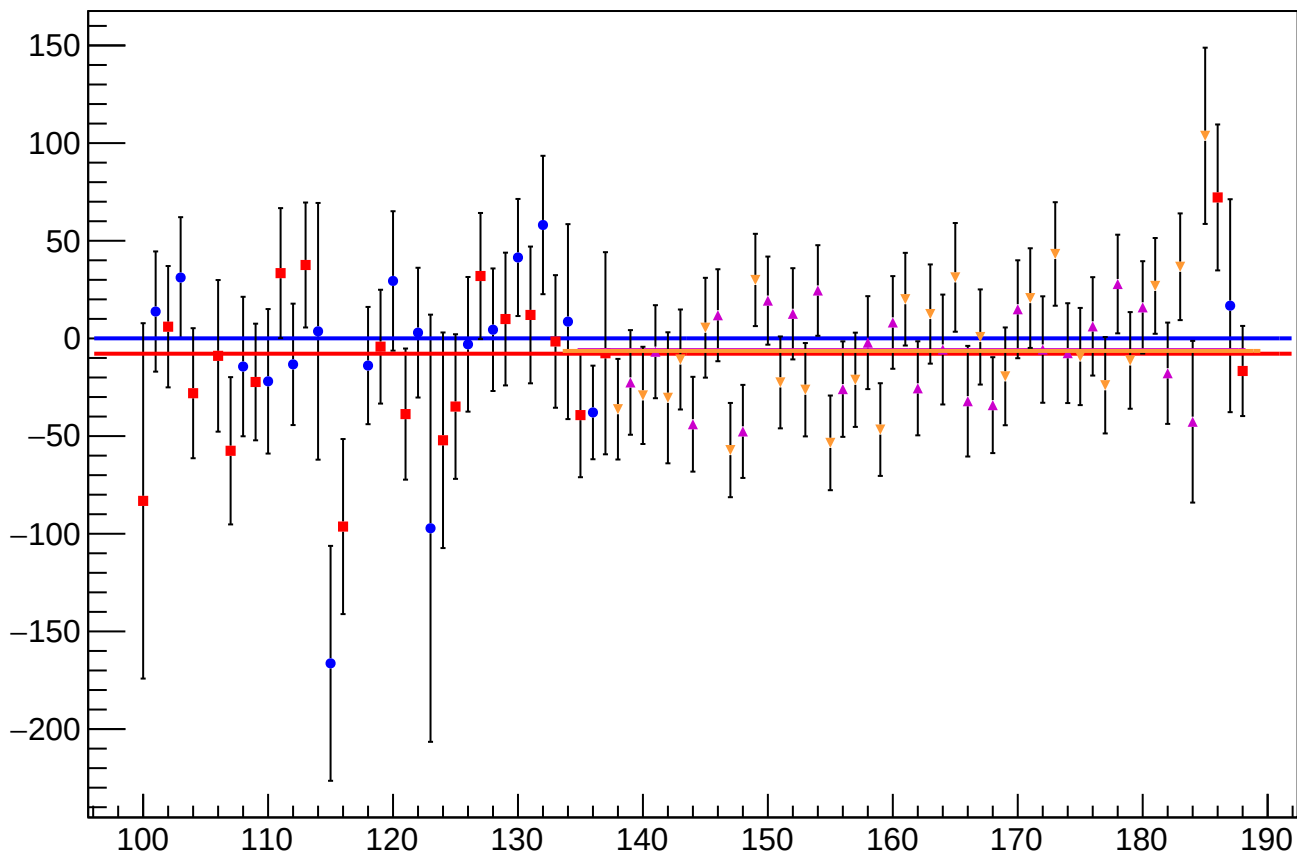
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.540 $\pm$ 0.004 χ^2 /NDF: 45537.3/17
 Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24
 Right Out: 16.591 $\pm$ 0.004 χ^2 /NDF: 47105.0/20
 Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47
 Right: 16.568 $\pm$ 0.003 χ^2 /NDF: 92712.8/38
 In: 15.940 $\pm$ 0.002 χ^2 /NDF:215794.7/40
 Out: 16.018 $\pm$ 0.002 χ^2 /NDF:248175.1/45
 All: 15.981 $\pm$ 0.002 χ^2 /NDF: 464566.8/86

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 8.364 χ^2 /NDF: 18.5/17

Left Out: -6.404 $\pm$ 5.091 χ^2 /NDF:37.4/24

Right Out: -7.820 $\pm$ 7.556 χ^2 /NDF: 20.6/20

Left In: -5.978 $\pm$ 5.222 χ^2 /NDF:18.5/22

Left: -6.196 $\pm$ 3.646 χ^2 /NDF: 55.9/47

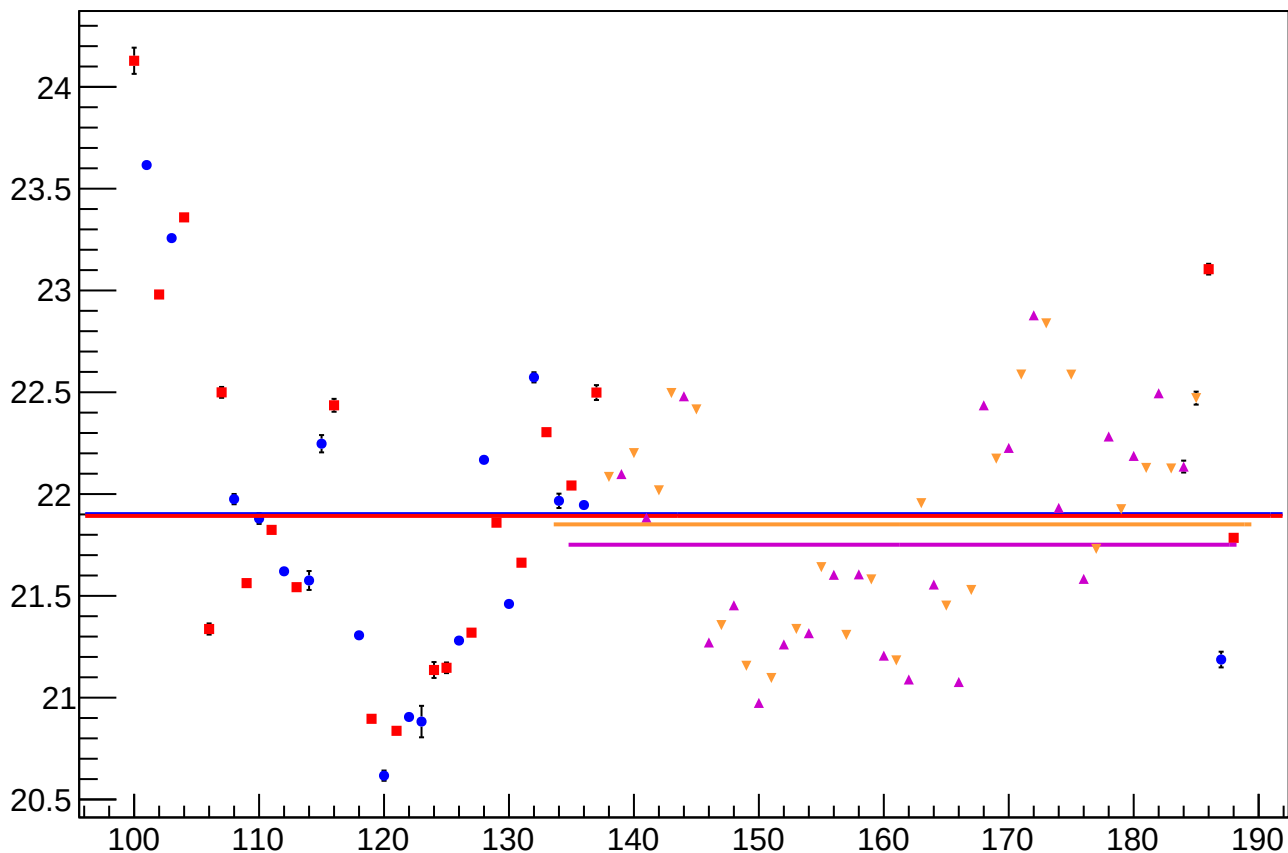
Right: -4.285 $\pm$ 5.607 χ^2 /NDF: 39.6/38

In: -4.288 $\pm$ 4.430 χ^2 /NDF:37.4/40

Out: -6.846 $\pm$ 4.222 χ^2 /NDF:58.0/45

All: -5.628 $\pm$ 3.056 χ^2 /NDF: 95.6/86

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.901 $\pm$ 0.006 χ^2 /NDF: 17993.6/17

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF: 19631.8/24

Right Out: 21.893 $\pm$ 0.005 χ^2 /NDF: 18239.4/20

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF: 20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

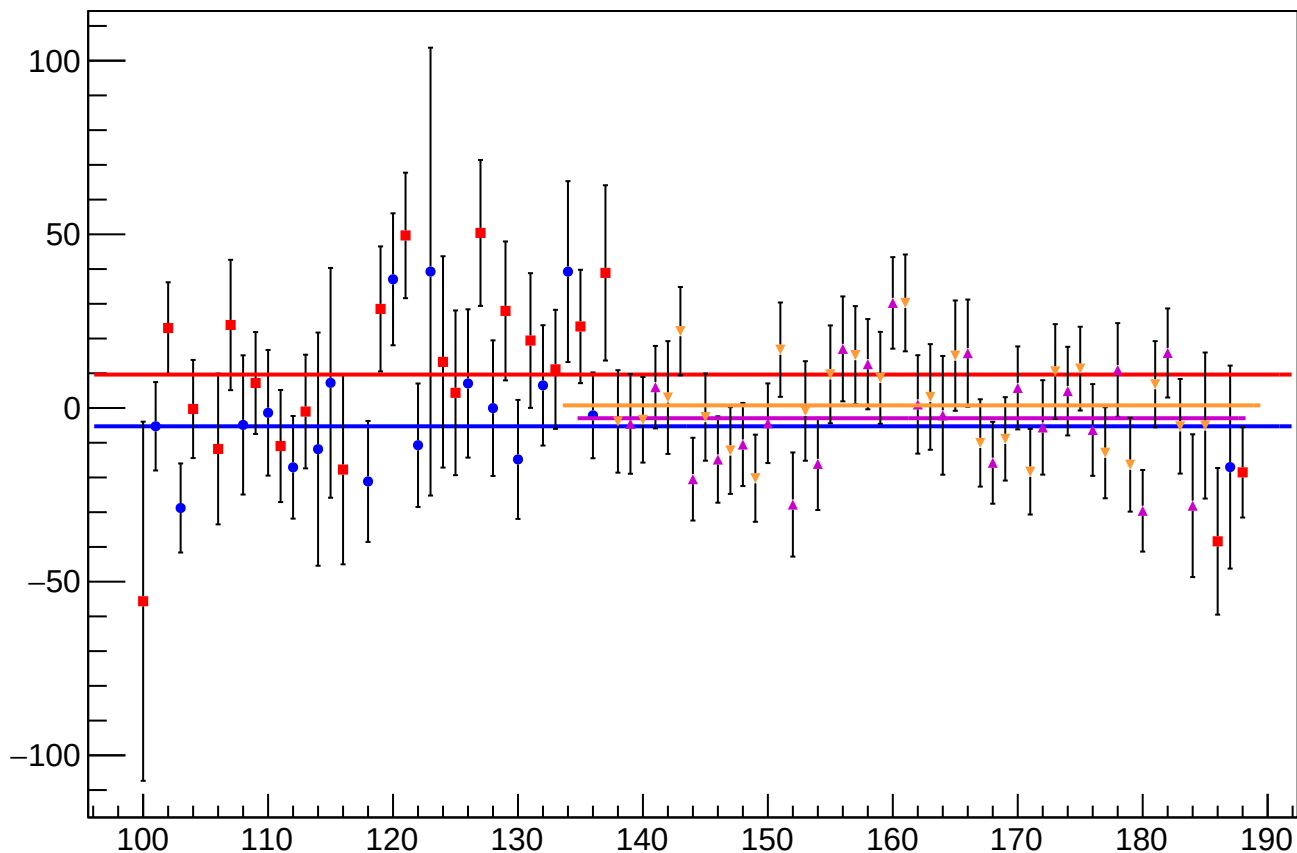
Right: 21.897 $\pm$ 0.004 χ^2 /NDF: 36234.1/38

In: 21.793 $\pm$ 0.003 χ^2 /NDF: 38974.3/40

Out: 21.864 $\pm$ 0.003 χ^2 /NDF: 37913.0/45

All: 21.830 $\pm$ 0.002 χ^2 /NDF: 77154.8/86

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.268 ± 4.287 χ^2/NDF : 14.9/17

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 9.628 ± 3.984 χ^2/NDF : 30.6/20

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

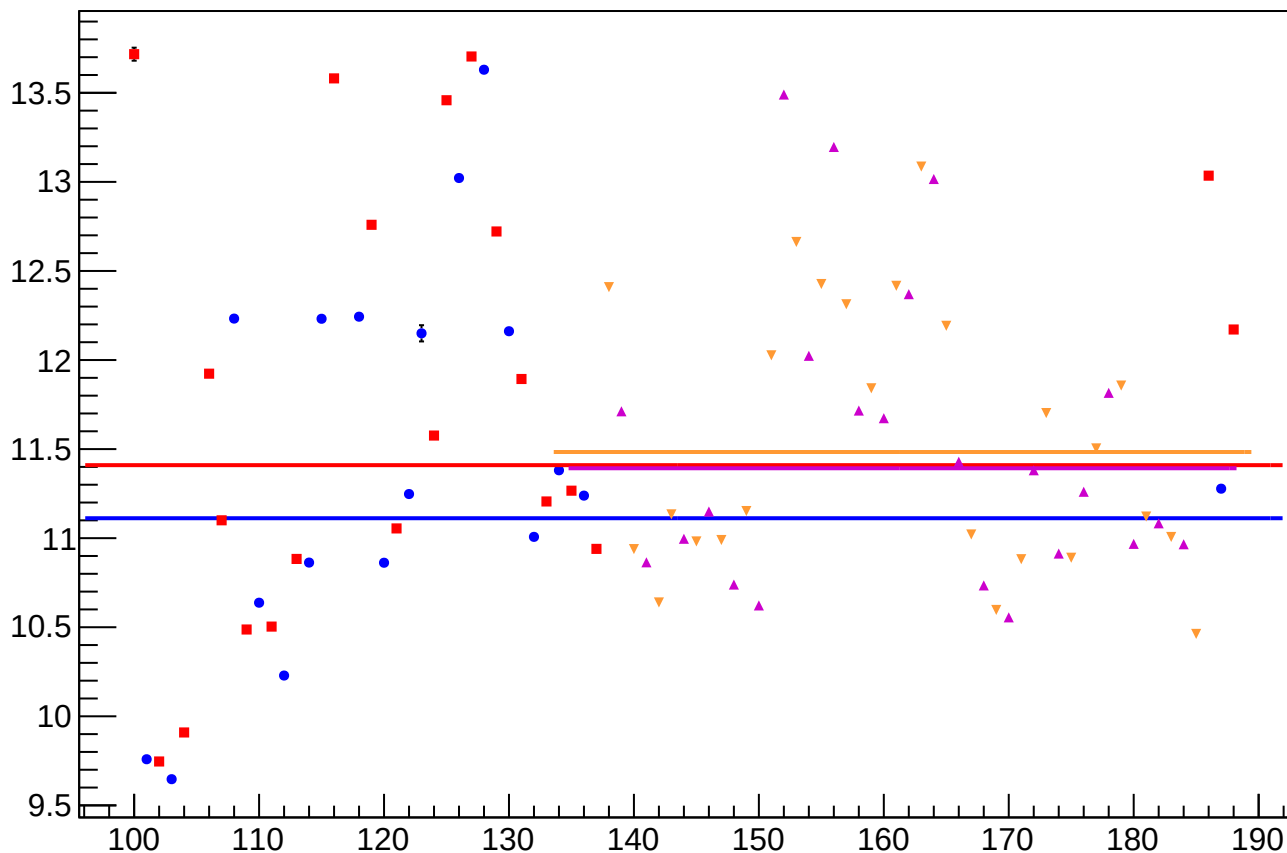
Right: 2.724 ± 2.918 χ^2/NDF : 52.0/38

In: -3.624 ± 2.319 χ^2/NDF : 46.1/40

Out: 3.548 ± 2.234 χ^2/NDF : 57.8/45

All: 0.095 ± 1.609 χ^2/NDF : 108.9/86

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.112 $\pm$ 0.003 χ^2/NDF : 132660.5/17

Left Out: 11.484 $\pm$ 0.002 χ^2/NDF : 129805.4/24

Right Out: 11.410 $\pm$ 0.003 χ^2/NDF : 169587.6/20

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

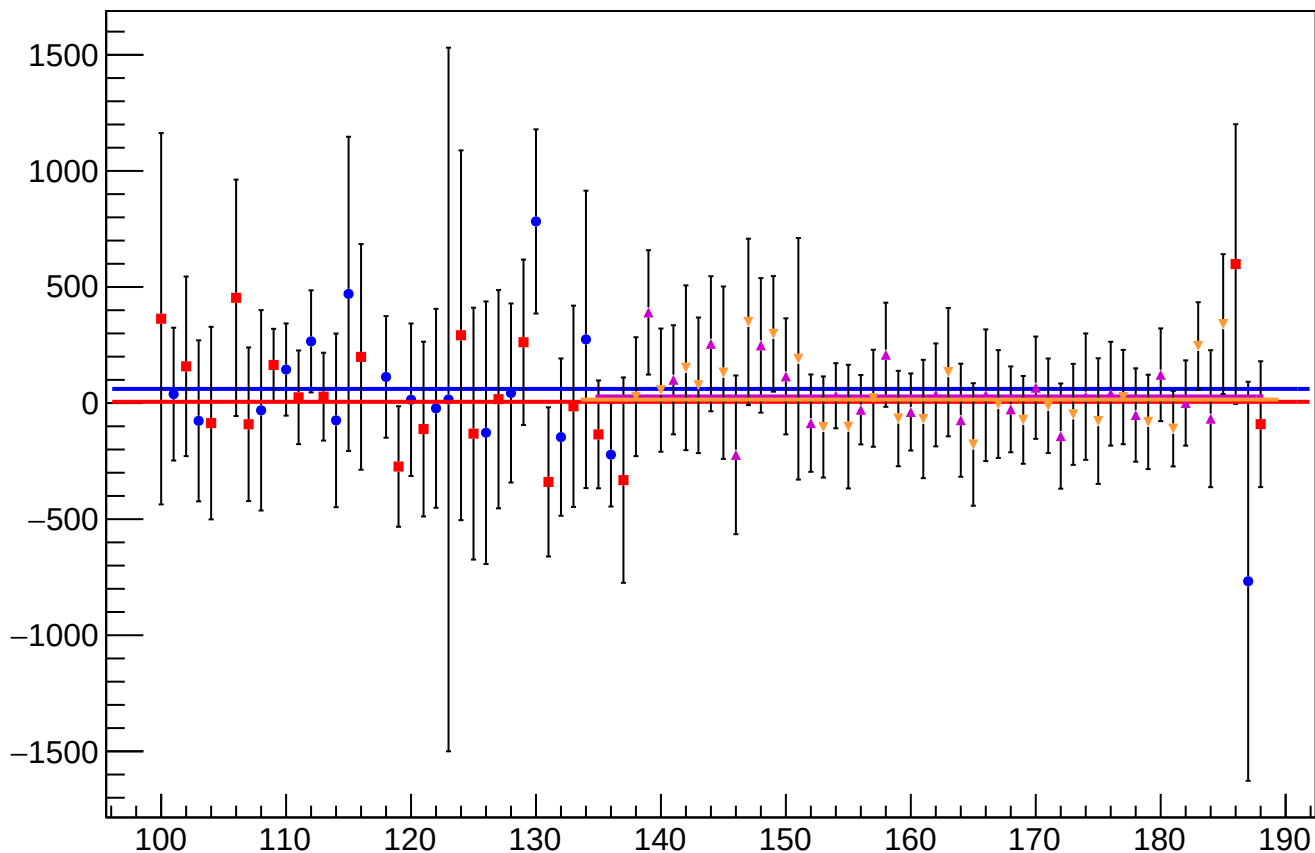
Right: 11.272 $\pm$ 0.002 χ^2/NDF : 307430.1/38

In: 11.310 $\pm$ 0.002 χ^2/NDF : 289208.3/40

Out: 11.460 $\pm$ 0.002 χ^2/NDF : 299864.3/45

All: 11.388 $\pm$ 0.001 χ^2/NDF : 593421.9/86

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 61.034 $\pm$ 79.112 χ^2 /NDF: 8.3/17

Left Out: 15.130 $\pm$ 47.705 χ^2 /NDF:8.0/24

Right Out: 5.477 $\pm$ 67.525 χ^2 /NDF: 7.6/20

Left In: 28.500 $\pm$ 44.797 χ^2 /NDF:6.4/22

Left: 22.235 $\pm$ 32.656 χ^2 /NDF: 14.4/47

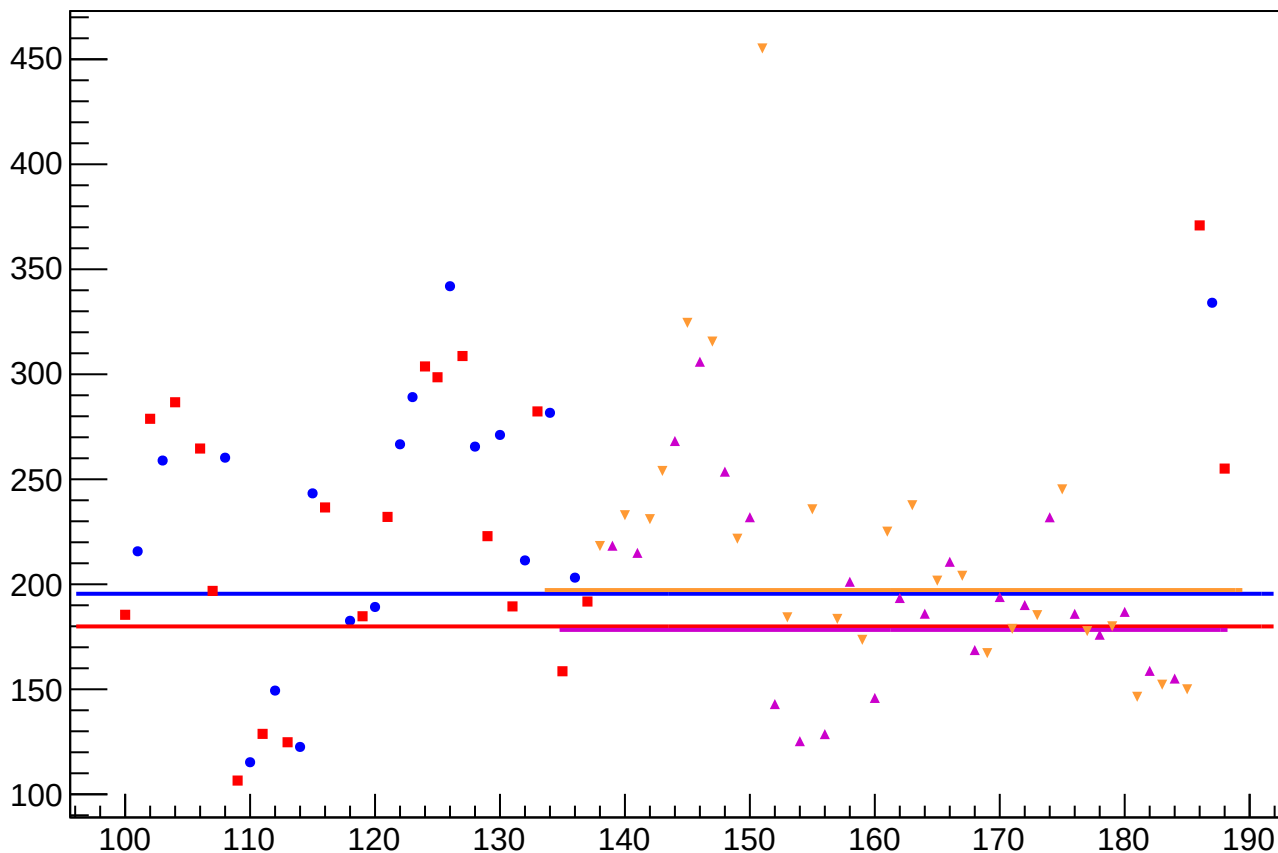
Right: 28.892 $\pm$ 51.360 χ^2 /NDF: 16.2/38

In: 36.399 $\pm$ 38.981 χ^2 /NDF:14.8/40

Out: 11.916 $\pm$ 38.962 χ^2 /NDF:15.7/45

All: 24.152 $\pm$ 27.557 χ^2 /NDF: 30.7/86

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.482 $\pm$ 0.056 χ^2 /NDF: 1058657.3/17

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 179.928 $\pm$ 0.048 χ^2 /NDF: 1942711.3/20

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

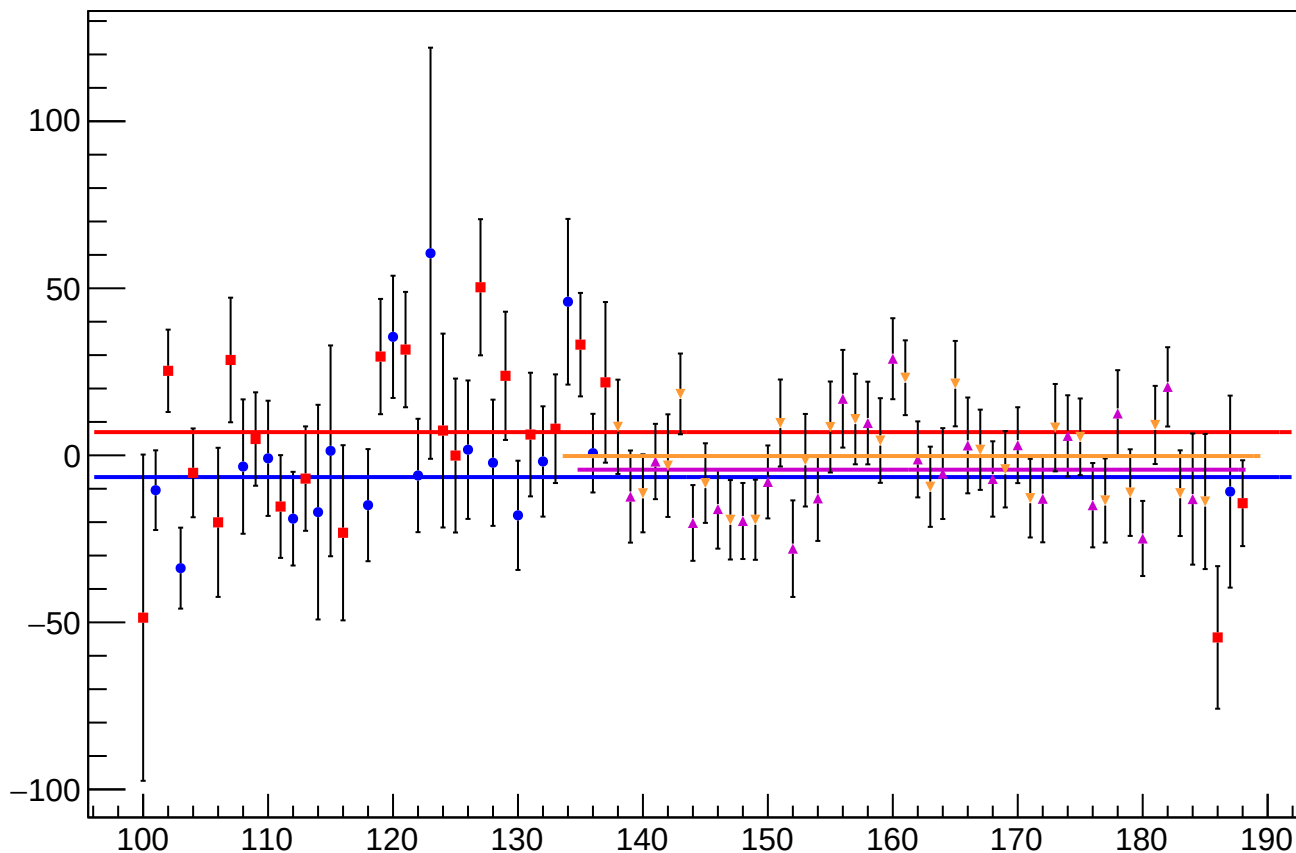
Right: 186.484 $\pm$ 0.036 χ^2 /NDF: 3046094.1/38

In: 182.454 $\pm$ 0.028 χ^2 /NDF:2759200.3/40

Out: 191.482 $\pm$ 0.028 χ^2 /NDF:3817306.5/45

All: 186.970 $\pm$ 0.019 χ^2 /NDF: 6630173.0/86

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.509 ± 4.096 $\chi^2/\text{NDF}: 18.6/17$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 6.949 ± 3.829 $\chi^2/\text{NDF}: 34.8/20$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

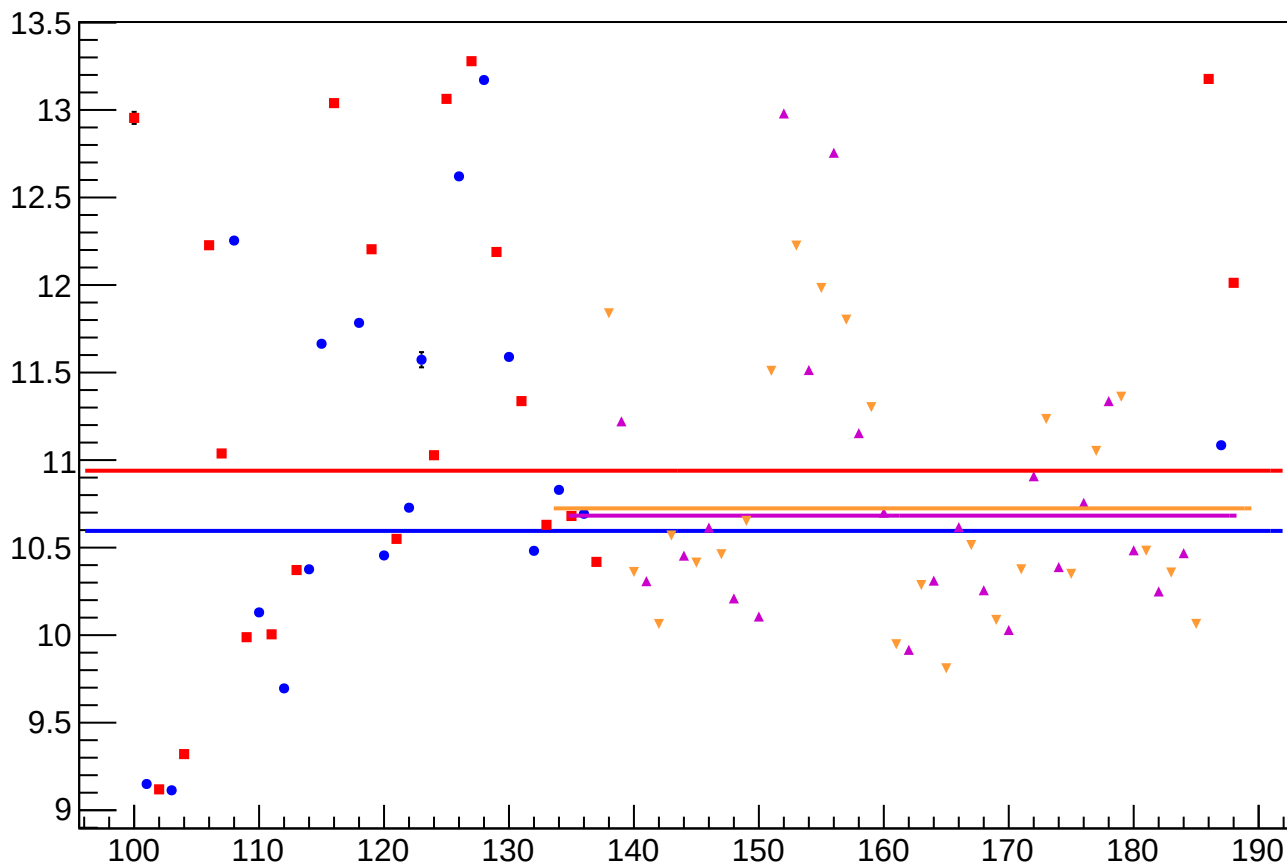
Right: 0.672 ± 2.797 $\chi^2/\text{NDF}: 59.2/38$

In: -4.929 ± 2.188 $\chi^2/\text{NDF}: 50.4/40$

Out: 1.957 ± 2.107 $\chi^2/\text{NDF}: 61.8/45$

All: -1.356 ± 1.518 $\chi^2/\text{NDF}: 117.3/86$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.595 ± 0.003 $\chi^2/\text{NDF}: 160405.9/17$

Left Out: 10.724 ± 0.002 $\chi^2/\text{NDF}: 132558.9/24$

Right Out: 10.939 ± 0.003 $\chi^2/\text{NDF}: 218205.2/20$

Left In: 10.683 ± 0.002 $\chi^2/\text{NDF}: 147835.6/22$

Left: 10.704 ± 0.001 $\chi^2/\text{NDF}: 280658.8/47$

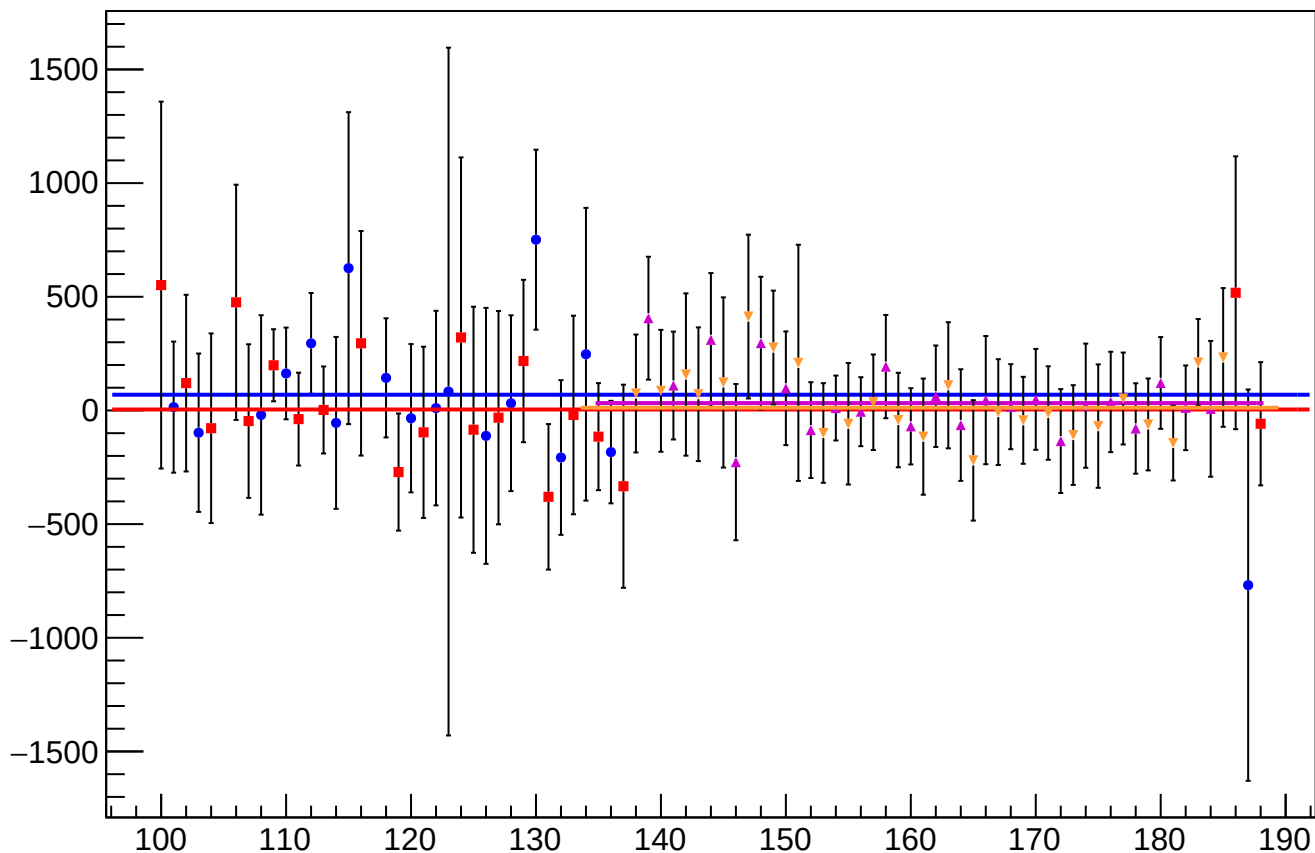
Right: 10.779 ± 0.002 $\chi^2/\text{NDF}: 386130.4/38$

In: 10.658 ± 0.002 $\chi^2/\text{NDF}: 308888.5/40$

Out: 10.789 ± 0.001 $\chi^2/\text{NDF}: 355163.6/45$

All: 10.726 ± 0.001 $\chi^2/\text{NDF}: 667803.4/86$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.165 $\pm$ 79.626 χ^2 /NDF: 8.5/17

Left Out: 11.891 $\pm$ 48.022 χ^2 /NDF: 7.6/24

Right Out: 4.222 $\pm$ 68.118 χ^2 /NDF: 8.2/20

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF: 6.9/22

Left: 22.783 $\pm$ 32.896 χ^2 /NDF: 14.6/47

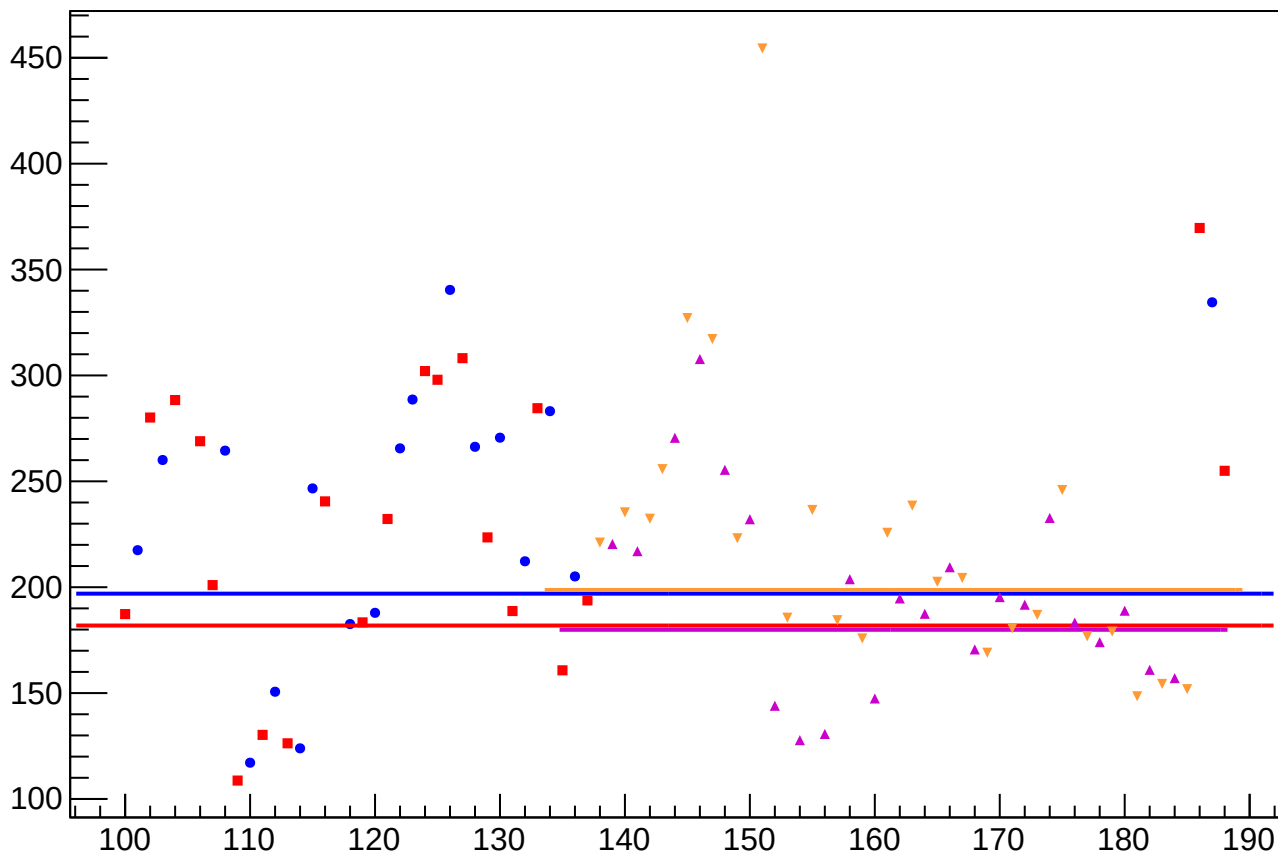
Right: 31.666 $\pm$ 51.762 χ^2 /NDF: 17.1/38

In: 41.356 $\pm$ 39.279 χ^2 /NDF: 15.6/40

Out: 9.345 $\pm$ 39.249 χ^2 /NDF: 15.8/45

All: 25.338 $\pm$ 27.764 χ^2 /NDF: 31.7/86

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.953 $\pm$ 0.056 χ^2 /NDF: 1032460.5/17

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 181.902 $\pm$ 0.048 χ^2 /NDF: 1887990.6/20

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

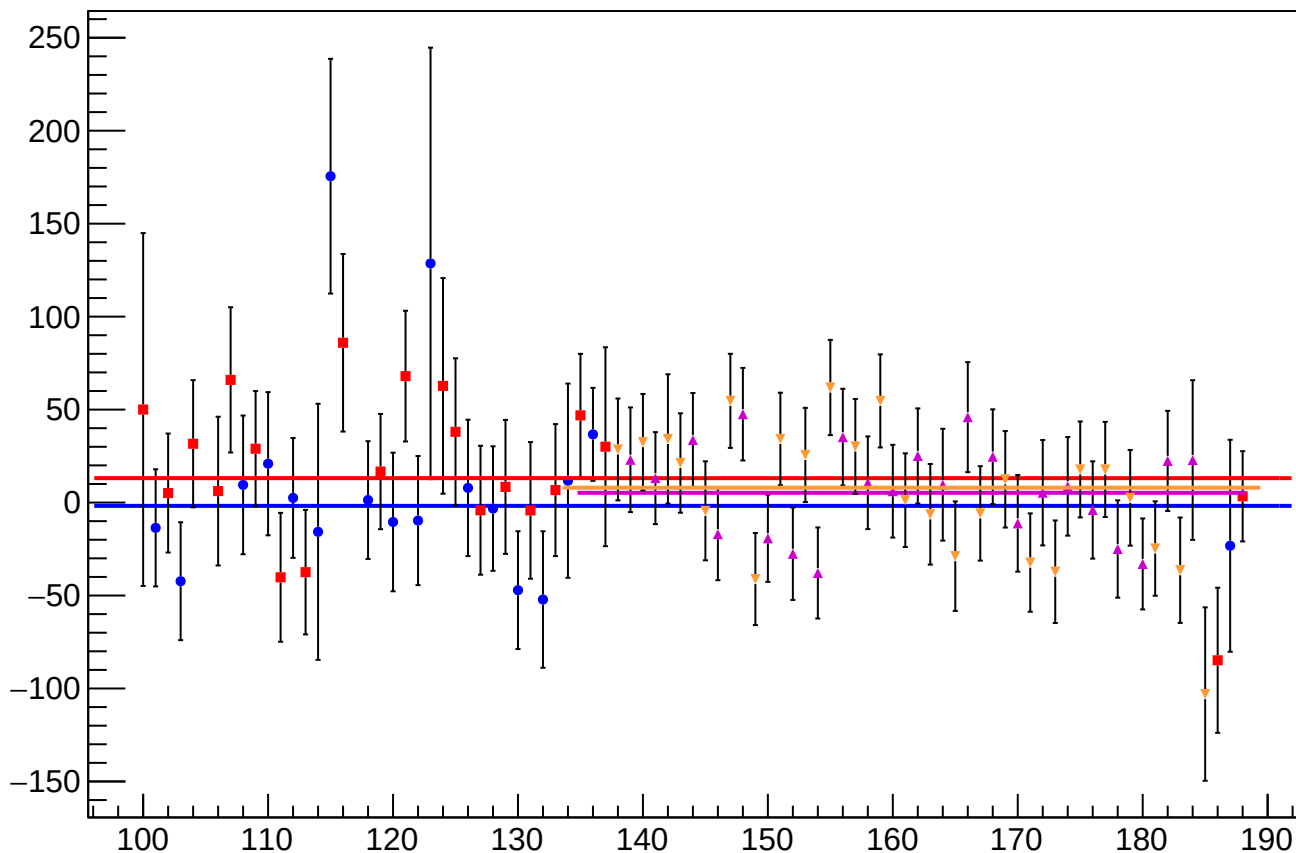
Right: 188.262 $\pm$ 0.037 χ^2 /NDF: 2961716.2/38

In: 184.039 $\pm$ 0.028 χ^2 /NDF:2682622.1/40

Out: 193.120 $\pm$ 0.028 χ^2 /NDF:3728501.4/45

All: 188.583 $\pm$ 0.020 χ^2 /NDF: 6464606.5/86

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.777 ± 8.741 χ^2/NDF : 18.1/17

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.127 ± 7.914 χ^2/NDF : 21.3/20

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

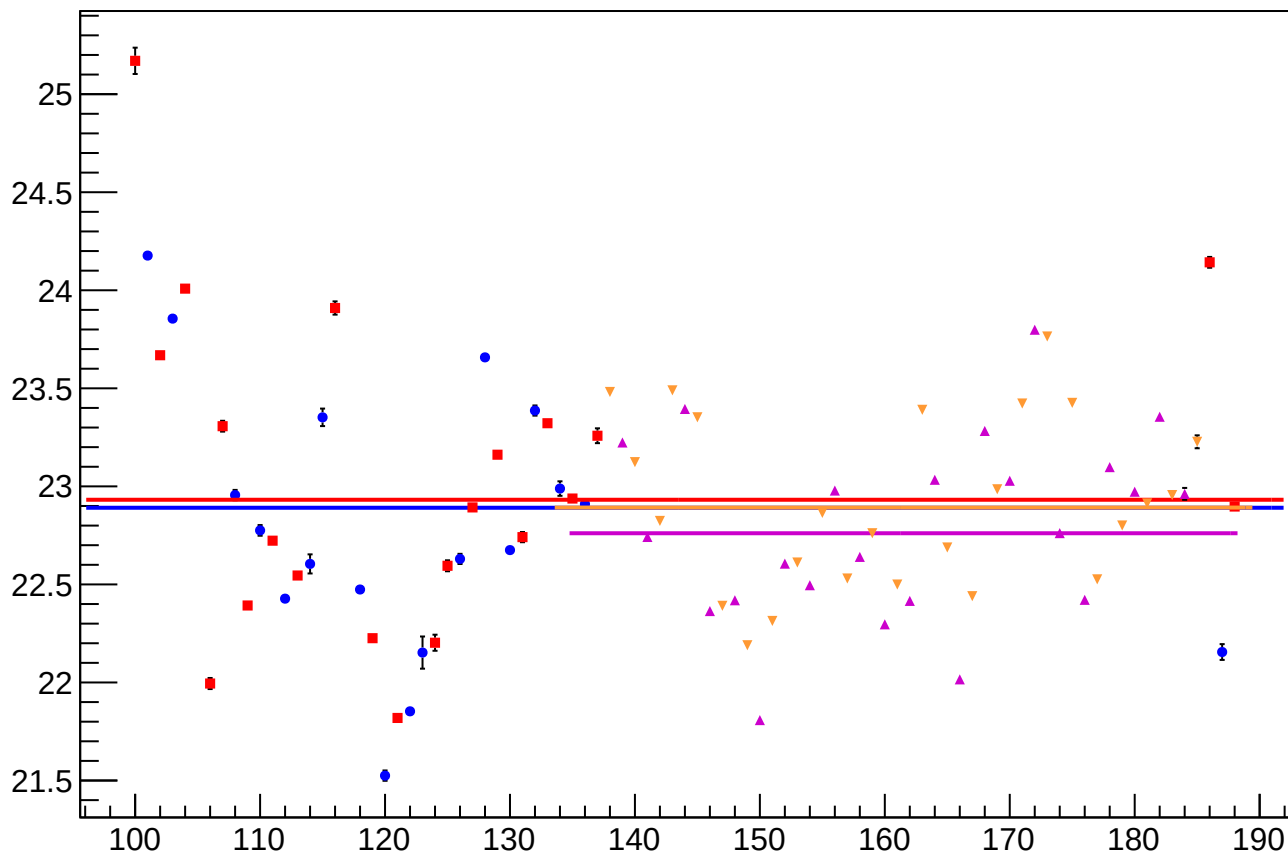
Right: 6.413 ± 5.867 χ^2/NDF : 41.0/38

In: 3.283 ± 4.634 χ^2/NDF : 39.3/40

Out: 9.604 ± 4.423 χ^2/NDF : 59.0/45

All: 6.590 ± 3.200 χ^2/NDF : 99.3/86

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.891 $\pm$ 0.006 χ^2 /NDF: 12611.7/17

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.932 $\pm$ 0.006 χ^2 /NDF: 13103.0/20

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

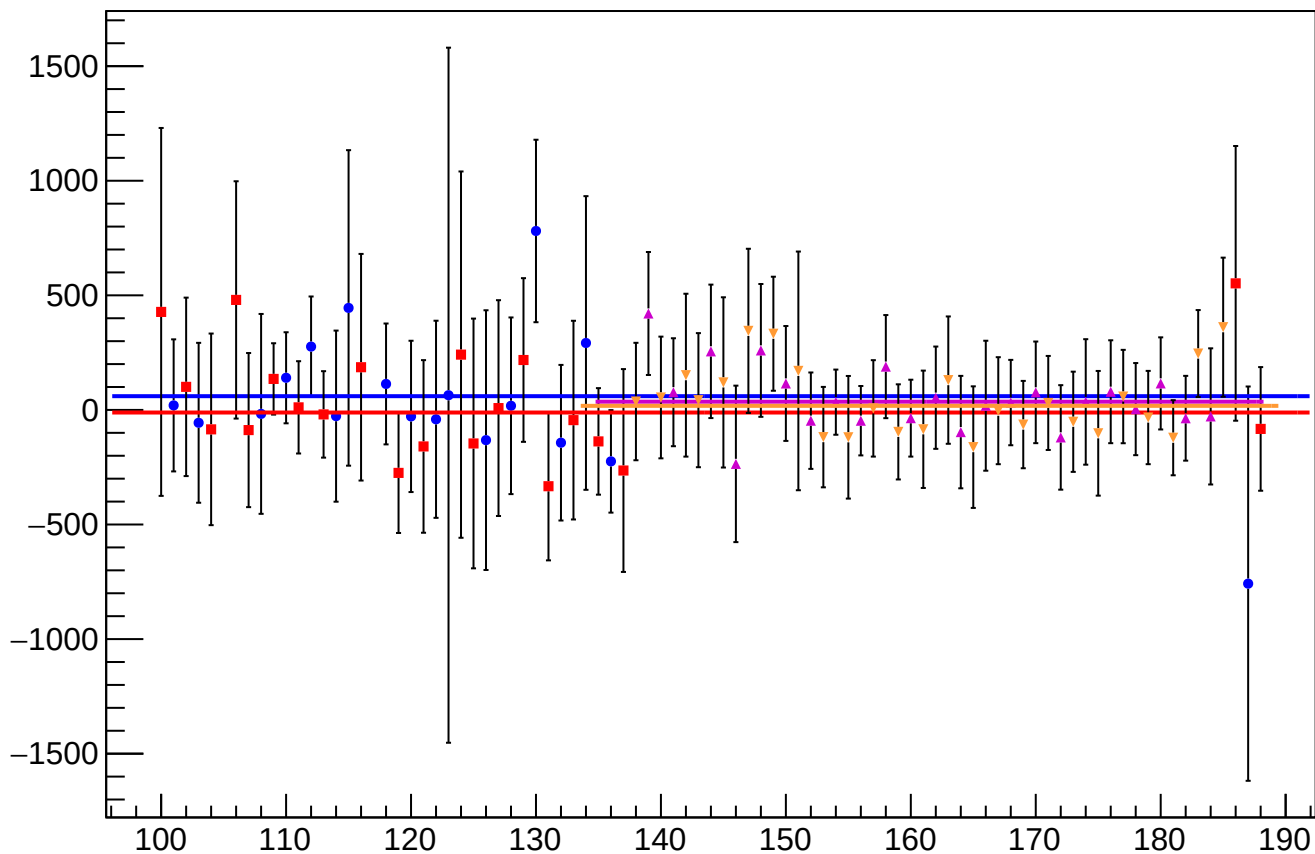
Right: 22.913 $\pm$ 0.004 χ^2 /NDF: 25738.6/38

In: 22.797 $\pm$ 0.003 χ^2 /NDF:27479.8/40

Out: 22.904 $\pm$ 0.003 χ^2 /NDF:26133.4/45

All: 22.853 $\pm$ 0.002 χ^2 /NDF: 54169.9/86

asym_bcm_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 59.954+/-79.286 χ^2/NDF : 8.3/17

Left Out: 17.777+/-47.941 χ^2/NDF : 8.5/24

Right Out: -11.351+/-67.654 χ^2/NDF : 6.7/20

Left In: 35.879+/-45.087 χ^2/NDF : 6.3/22

Left: 27.383+/-32.844 χ^2/NDF : 14.9/47

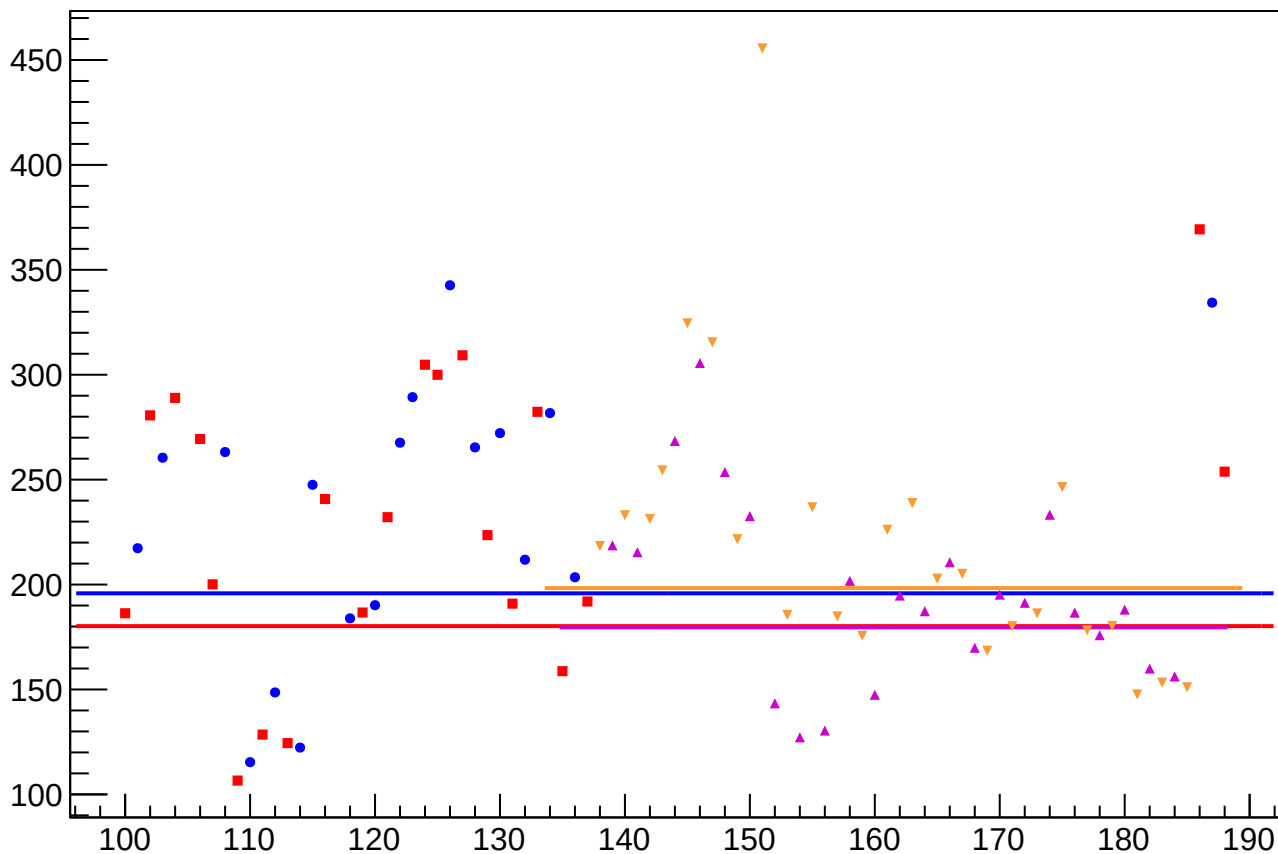
Right: 18.692+/-51.464 χ^2/NDF : 15.5/38

In: 41.762+/-39.193 χ^2/NDF : 14.6/40

Out: 8.040+/-39.116 χ^2/NDF : 15.4/45

All: 24.867+/-27.686 χ^2/NDF : 30.4/86

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.820 $\pm$ 0.056 χ^2 /NDF: 1073305.3/17

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF: 1757450.6/24

Right Out: 180.186 $\pm$ 0.048 χ^2 /NDF: 1962702.9/20

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF: 1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

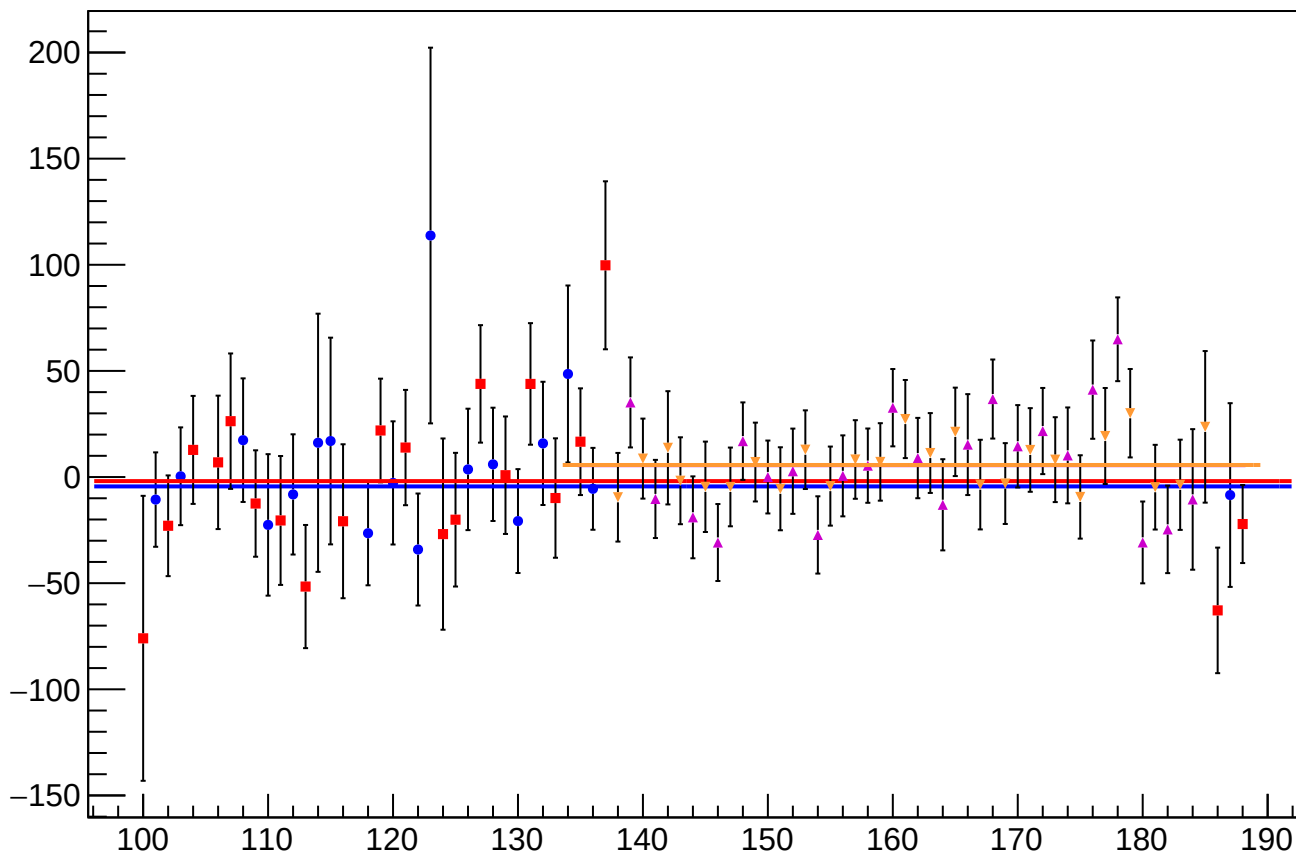
Right: 186.773 $\pm$ 0.036 χ^2 /NDF: 3081007.2/38

In: 183.567 $\pm$ 0.028 χ^2 /NDF: 2712259.7/40

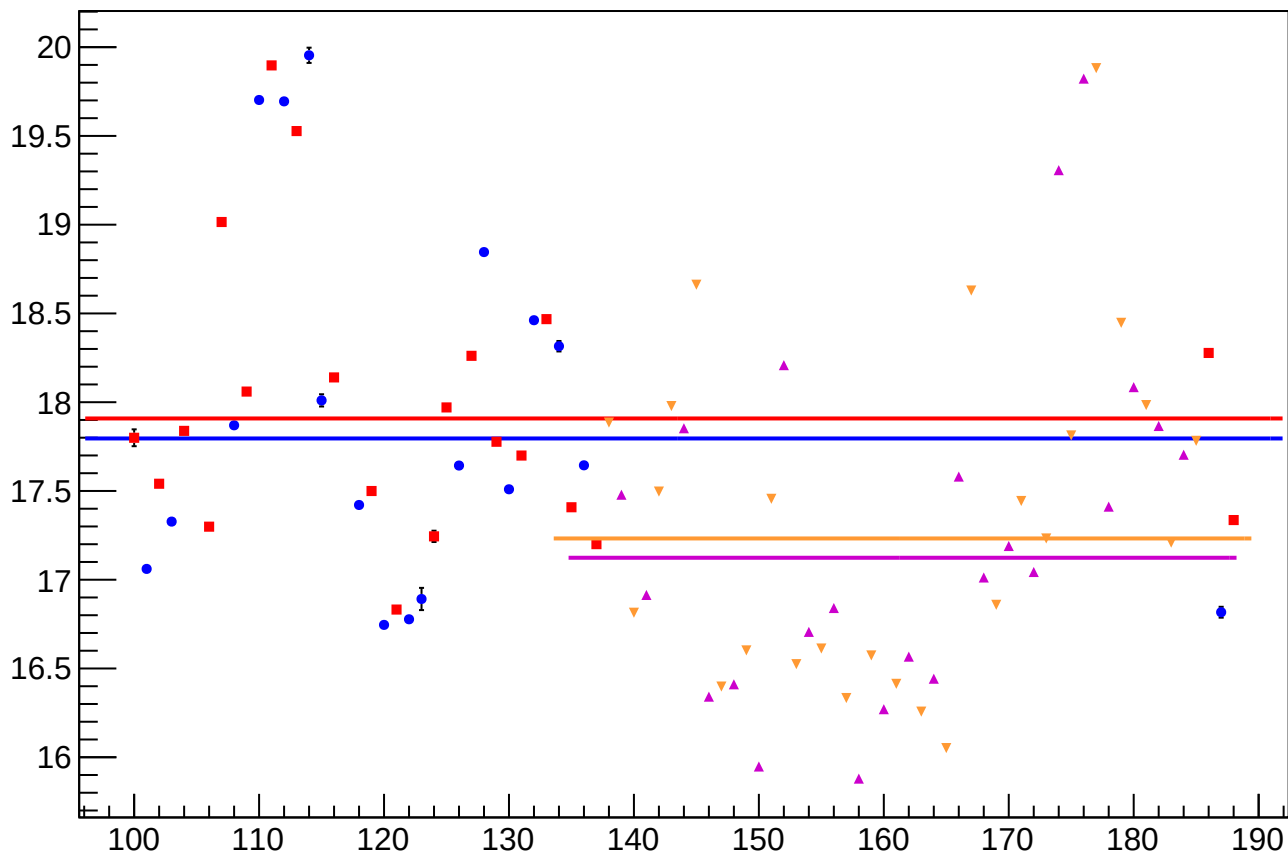
Out: 192.274 $\pm$ 0.028 χ^2 /NDF: 3816059.6/45

All: 187.929 $\pm$ 0.020 χ^2 /NDF: 6577764.1/86

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.796 $\pm$ 0.005 χ^2 /NDF: 33332.6/17

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.908 $\pm$ 0.004 χ^2 /NDF: 27717.4/20

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

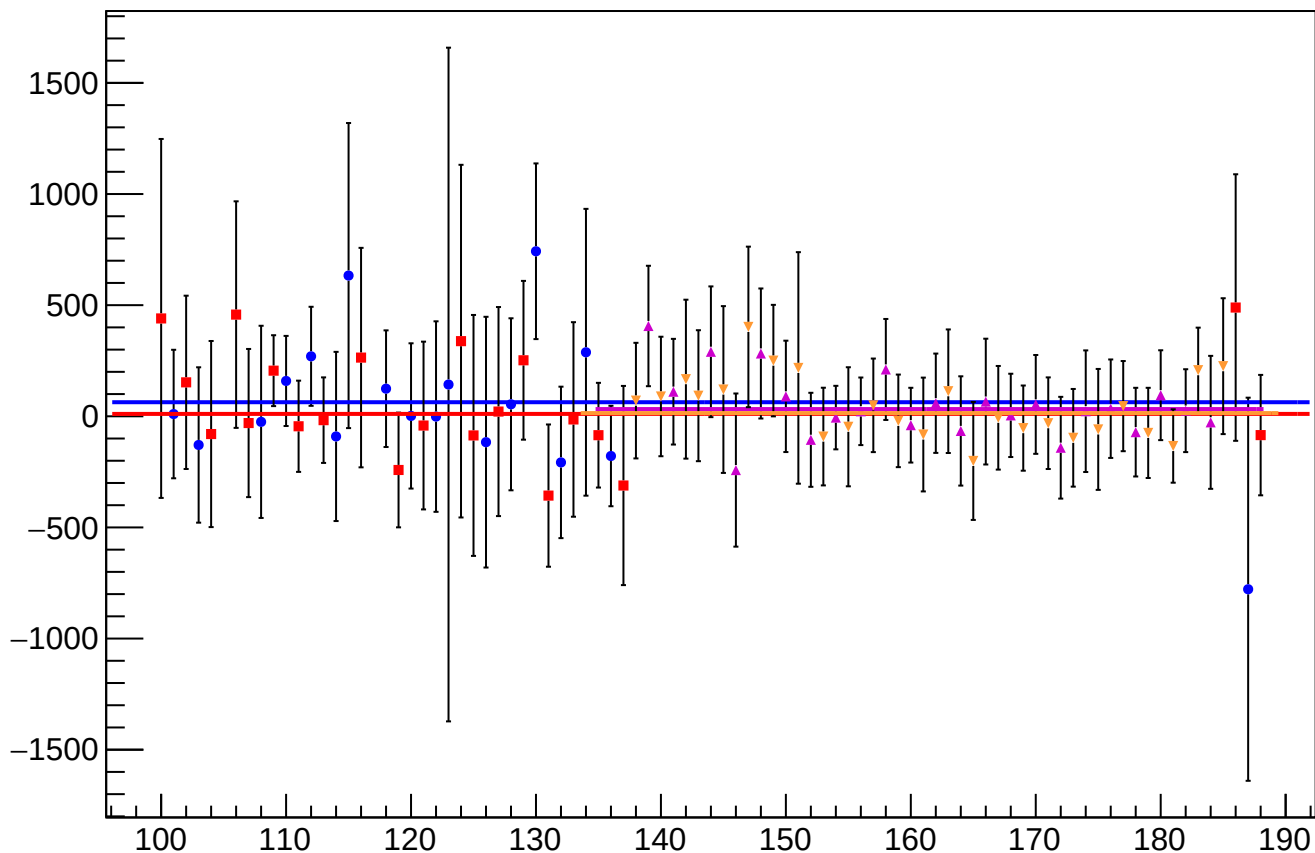
Right: 17.857 $\pm$ 0.003 χ^2 /NDF: 61350.2/38

In: 17.304 $\pm$ 0.002 χ^2 /NDF:148361.5/40

Out: 17.433 $\pm$ 0.002 χ^2 /NDF:143190.1/45

All: 17.372 $\pm$ 0.002 χ^2 /NDF: 292951.6/86

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 63.323+/-79.823 χ^2/NDF : 8.3/17

Left Out: 14.362+/-48.130 χ^2/NDF : 6.9/24

Right Out: 10.717+/-68.256 χ^2/NDF : 7.5/20

Left In: 32.571+/-45.248 χ^2/NDF : 6.7/22

Left: 24.028+/-32.967 χ^2/NDF : 13.7/47

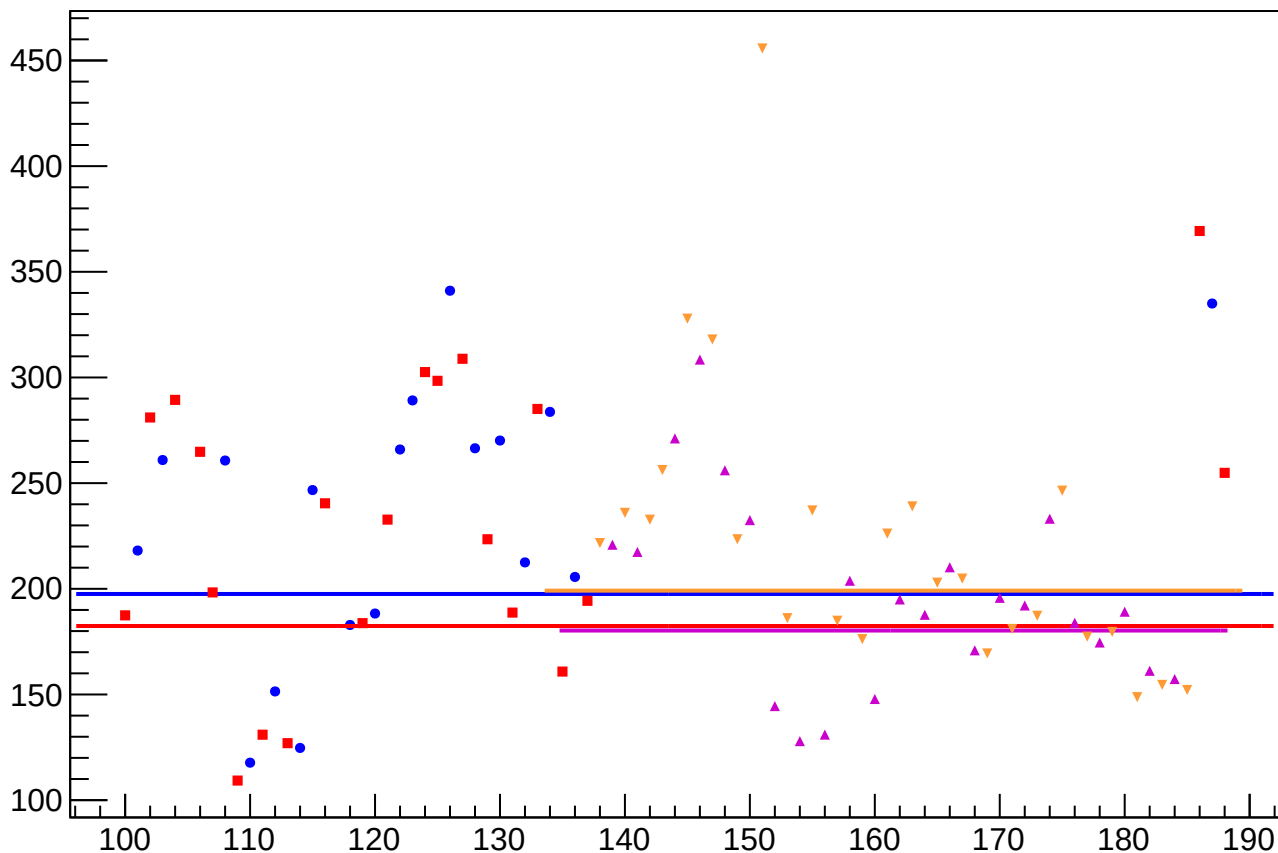
Right: 32.936+/-51.877 χ^2/NDF : 16.1/38

In: 40.049+/-39.363 χ^2/NDF : 15.2/40

Out: 13.152+/-39.334 χ^2/NDF : 14.4/45

All: 26.590+/-27.824 χ^2/NDF : 29.8/86

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.558 $\pm$ 0.056 χ^2 /NDF: 1017262.4/17

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 182.405 $\pm$ 0.048 χ^2 /NDF: 1866466.6/20

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

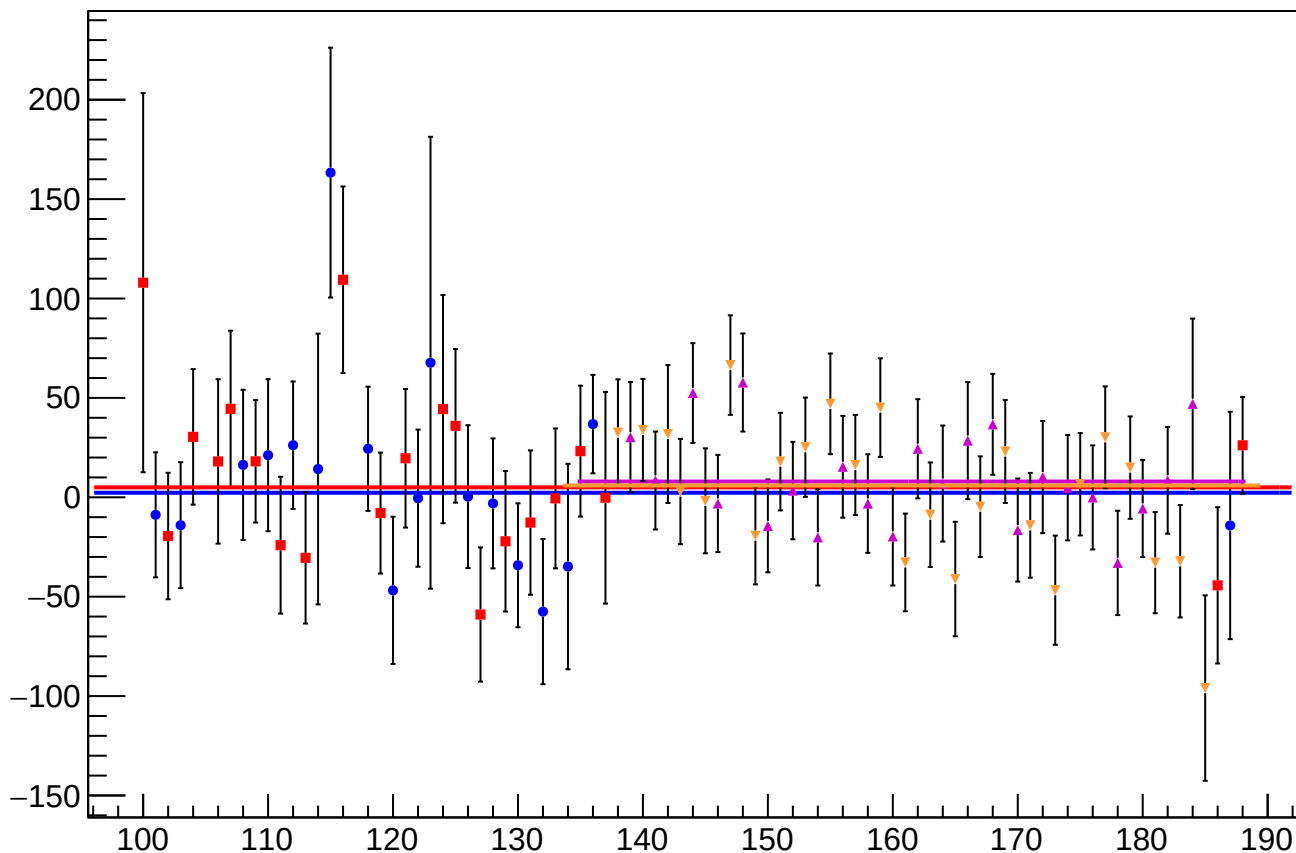
Right: 188.805 $\pm$ 0.037 χ^2 /NDF: 2925364.0/38

In: 184.464 $\pm$ 0.028 χ^2 /NDF:2668928.7/40

Out: 193.579 $\pm$ 0.028 χ^2 /NDF:3707028.0/45

All: 189.025 $\pm$ 0.020 χ^2 /NDF: 6429625.7/86

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.289 $\pm$ 8.670 χ^2 /NDF: 17.1/17

Left Out: 5.937 $\pm$ 5.285 χ^2 /NDF:36.1/24

Right Out: 5.008 $\pm$ 7.859 χ^2 /NDF: 19.0/20

Left In: 7.915 $\pm$ 5.422 χ^2 /NDF:18.7/22

Left: 6.901 $\pm$ 3.784 χ^2 /NDF: 54.9/47

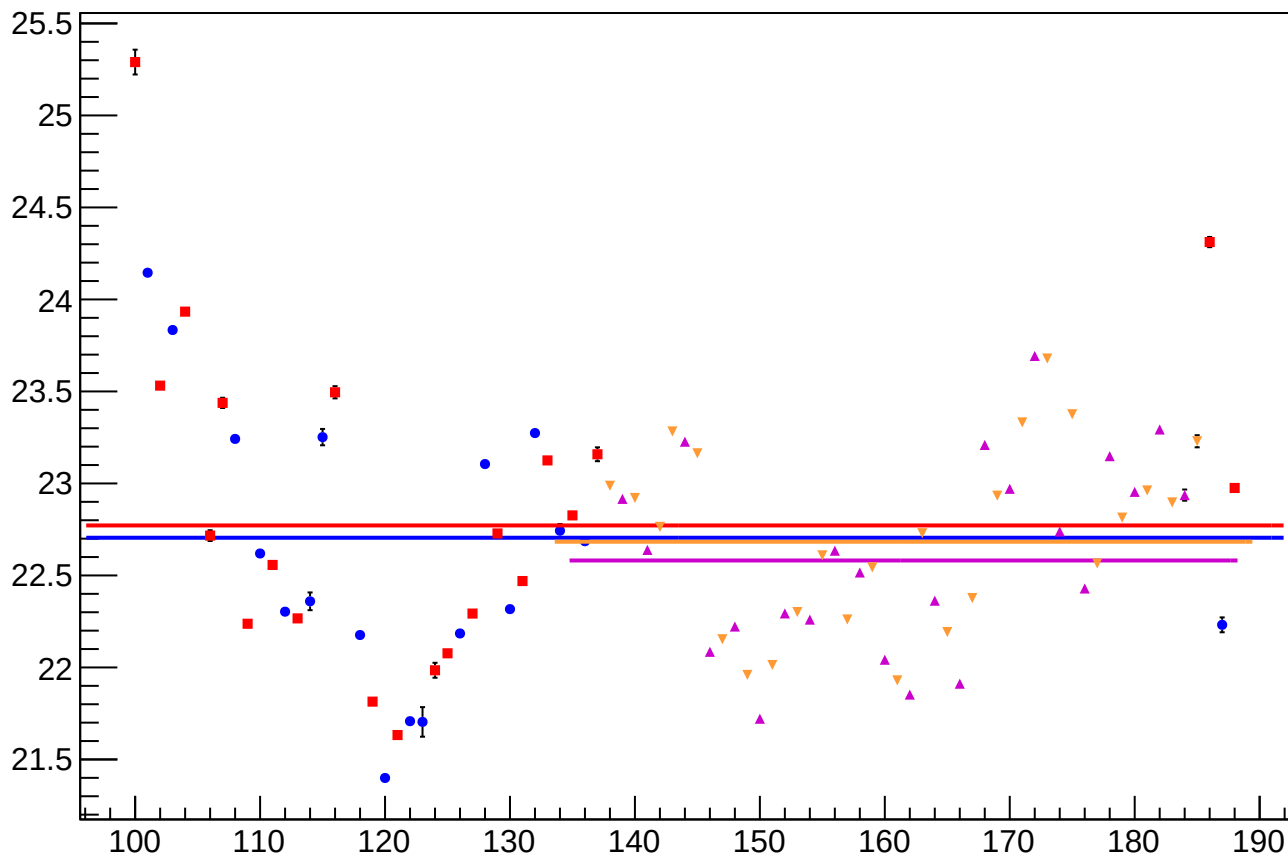
Right: 3.782 $\pm$ 5.823 χ^2 /NDF: 36.2/38

In: 6.334 $\pm$ 4.597 χ^2 /NDF:36.1/40

Out: 5.648 $\pm$ 4.386 χ^2 /NDF:55.1/45

All: 5.975 $\pm$ 3.173 χ^2 /NDF: 91.3/86

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.705+/-0.006 χ^2/NDF : 14198.3/17

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.772+/-0.006 χ^2/NDF : 16267.5/20

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

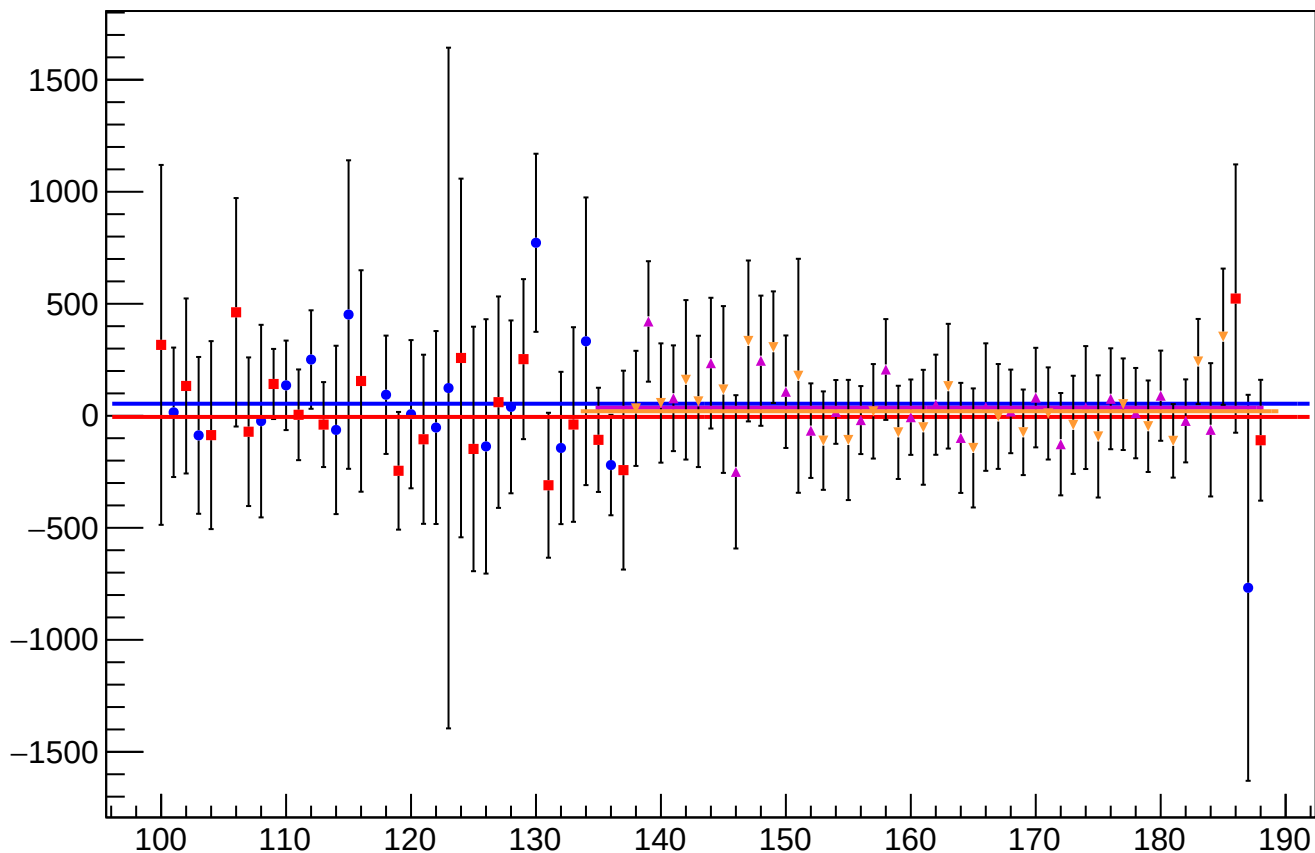
Right: 22.742+/-0.004 χ^2/NDF : 30531.0/38

In: 22.616+/-0.003 χ^2/NDF : 32395.0/40

Out: 22.711+/-0.003 χ^2/NDF : 32762.4/45

All: 22.666+/-0.002 χ^2/NDF : 65601.8/86

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 53.921+/-79.486 χ^2/NDF : 8.0/17

Left Out: 20.306+/-48.049 χ^2/NDF : 7.7/24

Right Out: -5.021+/-67.796 χ^2/NDF : 6.2/20

Left In: 35.996+/-45.180 χ^2/NDF : 6.1/22

Left: 28.633+/-32.915 χ^2/NDF : 13.8/47

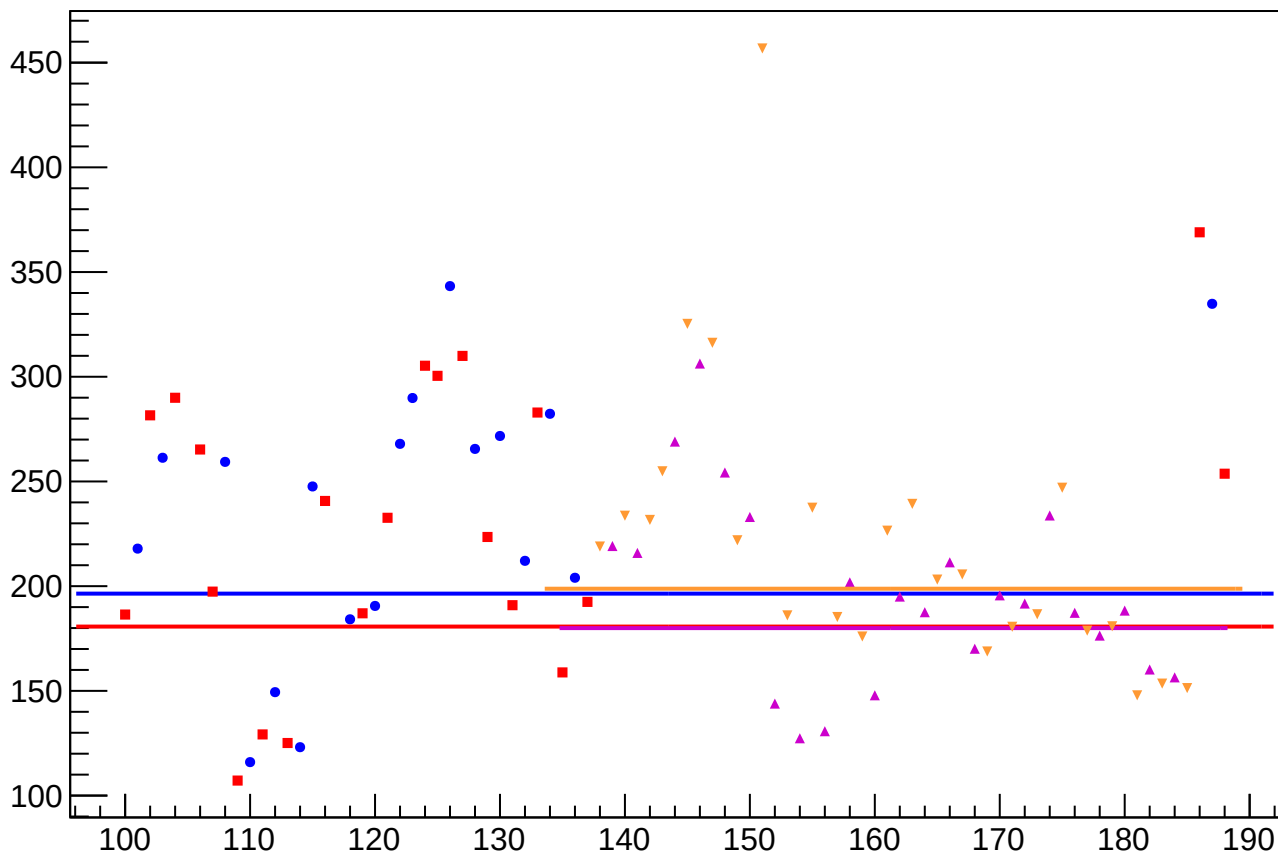
Right: 19.801+/-51.582 χ^2/NDF : 14.5/38

In: 40.373+/-39.278 χ^2/NDF : 14.1/40

Out: 11.838+/-39.202 χ^2/NDF : 13.9/45

All: 26.078+/-27.747 χ^2/NDF : 28.3/86

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.437 $\pm$ 0.056 χ^2 /NDF: 1057397.0/17

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 180.705 $\pm$ 0.048 χ^2 /NDF: 1940154.1/20

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

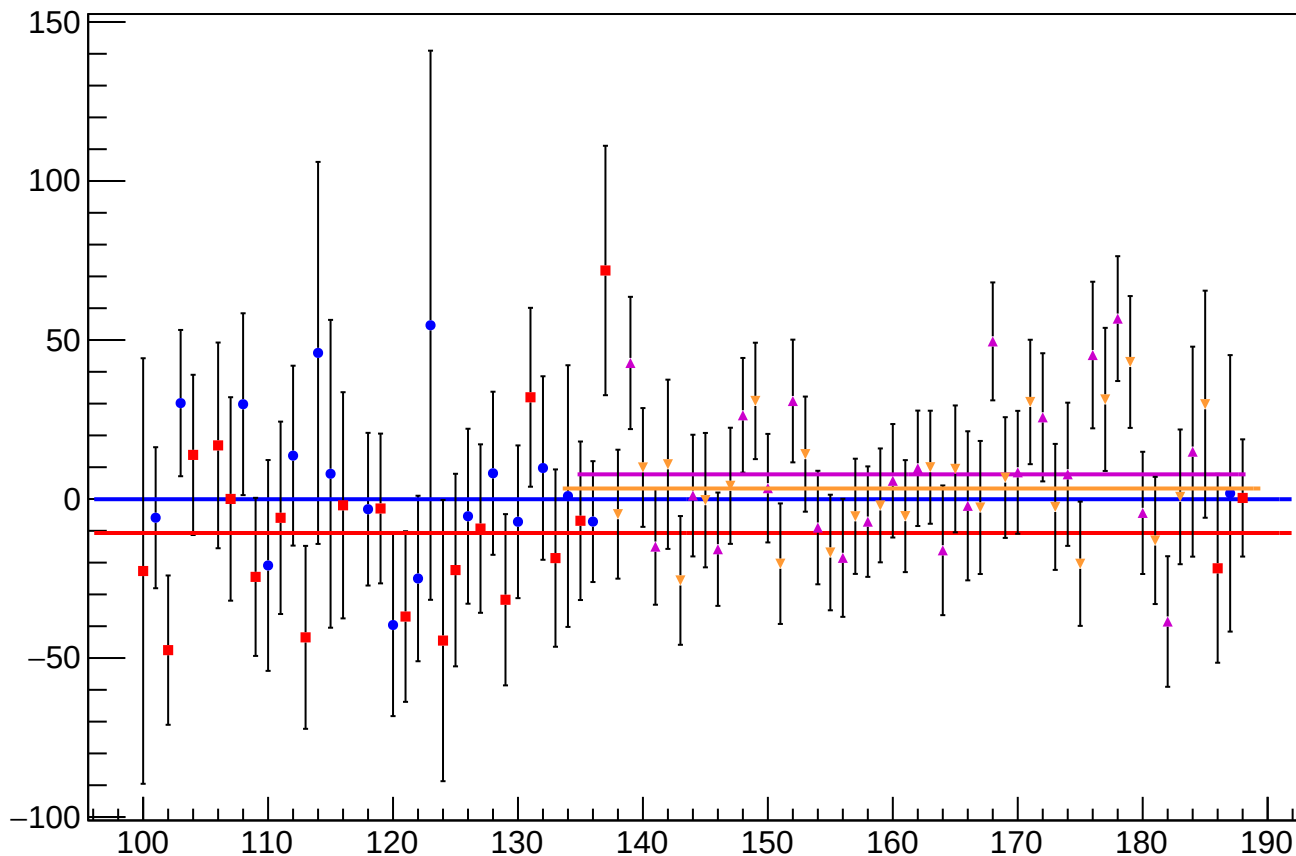
Right: 187.330 $\pm$ 0.036 χ^2 /NDF: 3042900.7/38

In: 183.993 $\pm$ 0.028 χ^2 /NDF:2698140.0/40

Out: 192.739 $\pm$ 0.028 χ^2 /NDF:3793310.1/45

All: 188.375 $\pm$ 0.020 χ^2 /NDF: 6541136.8/86

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.066 ± 6.705 χ^2/NDF : 7.9/17

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -10.685 ± 6.115 χ^2/NDF : 15.7/20

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

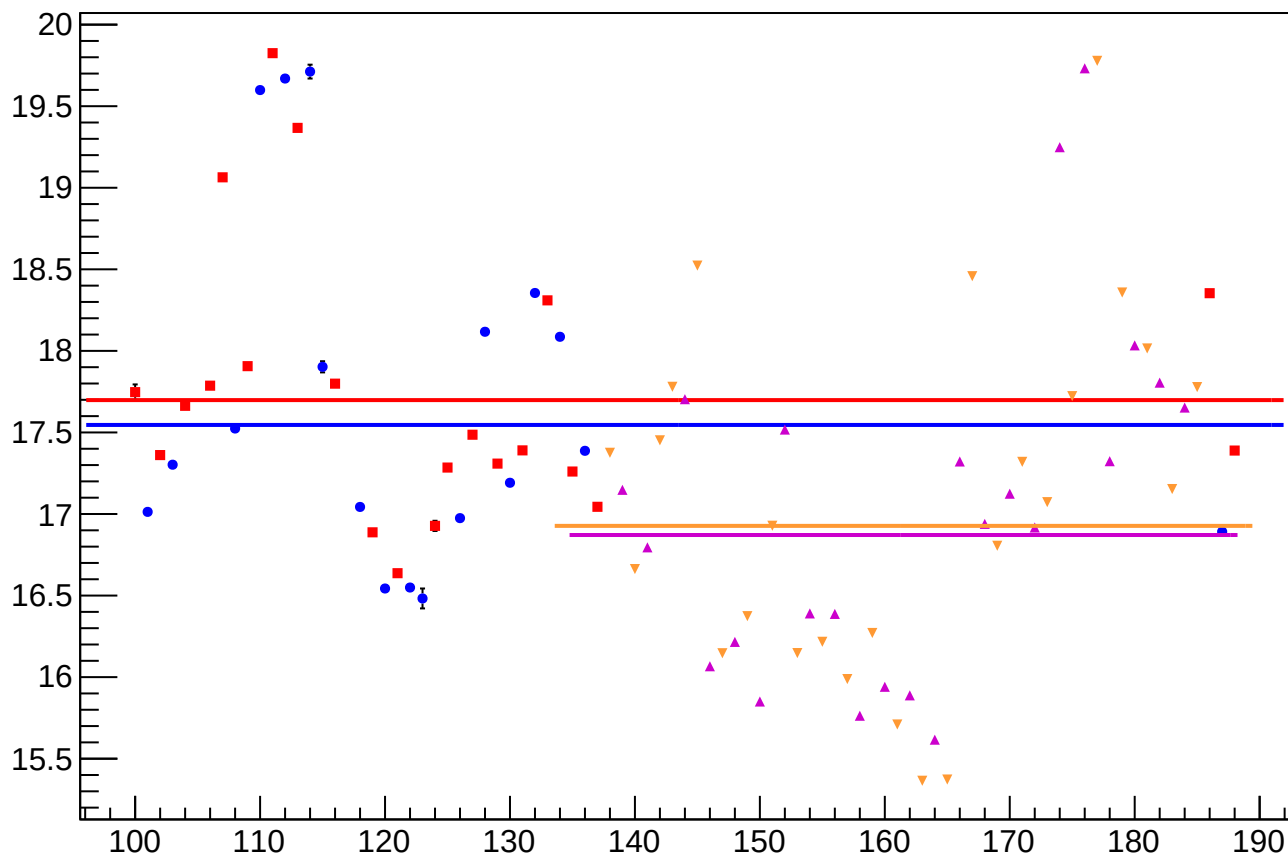
Right: -5.863 ± 4.518 χ^2/NDF : 24.9/38

In: 5.657 ± 3.473 χ^2/NDF : 43.1/40

Out: -0.818 ± 3.320 χ^2/NDF : 38.1/45

All: 2.274 ± 2.400 χ^2/NDF : 83.1/86

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.546 $\pm$ 0.005 χ^2 /NDF: 34401.0/17

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.698 $\pm$ 0.004 χ^2 /NDF: 31790.9/20

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

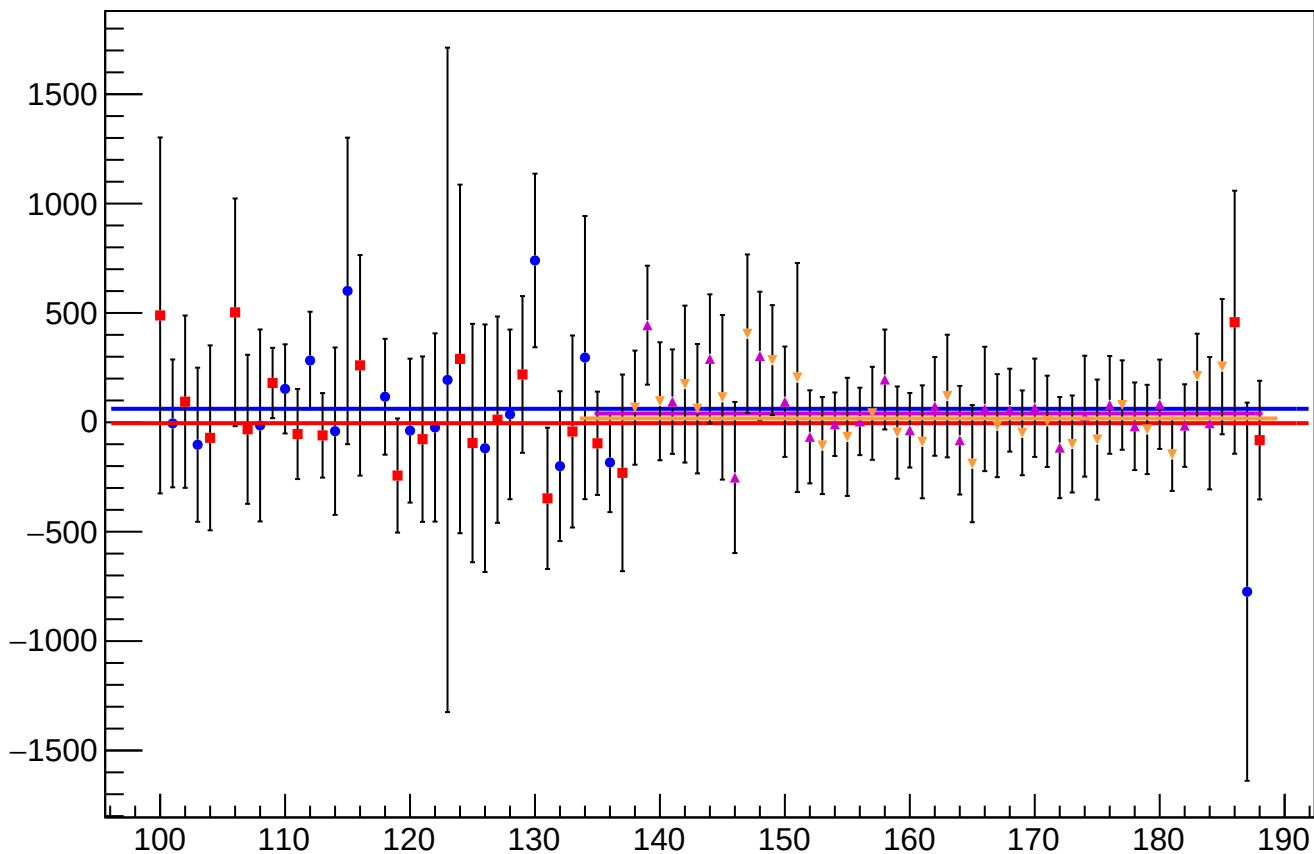
Right: 17.629 $\pm$ 0.003 χ^2 /NDF: 66755.2/38

In: 17.052 $\pm$ 0.002 χ^2 /NDF:167212.4/40

Out: 17.155 $\pm$ 0.002 χ^2 /NDF:192745.4/45

All: 17.106 $\pm$ 0.002 χ^2 /NDF: 360863.1/86

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 61.943 $\pm$ 80.285 χ^2 /NDF: 8.2/17

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF: 7.5/24

Right Out: -3.708 $\pm$ 68.704 χ^2 /NDF: 6.8/20

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF: 6.6/22

Left: 29.774 $\pm$ 33.271 χ^2 /NDF: 14.2/47

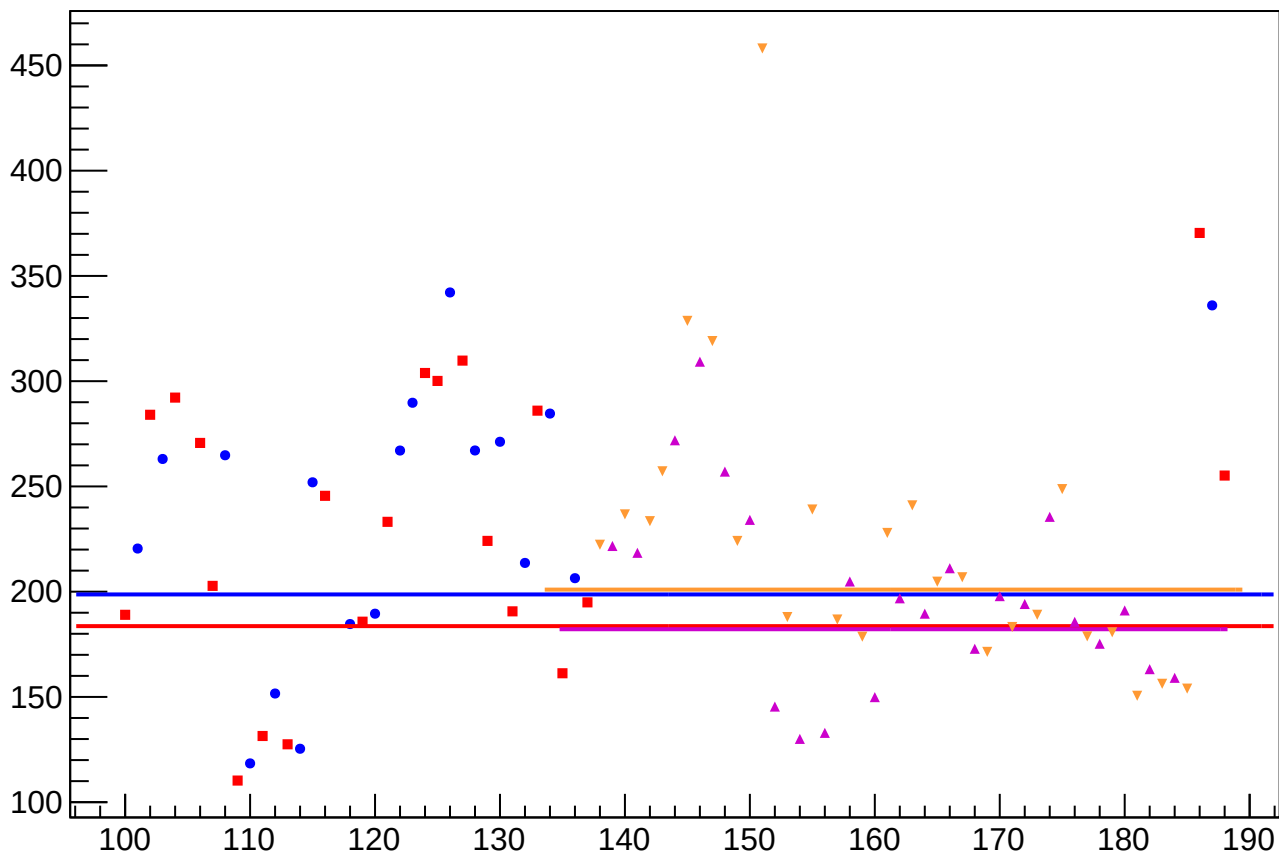
Right: 24.045 $\pm$ 52.200 χ^2 /NDF: 15.3/38

In: 45.636 $\pm$ 39.709 χ^2 /NDF: 14.9/40

Out: 10.656 $\pm$ 39.648 χ^2 /NDF: 14.3/45

All: 28.119 $\pm$ 28.057 χ^2 /NDF: 29.6/86

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.692 $\pm$ 0.057 χ^2/NDF : 1021779.6/17

Left Out: 200.985 $\pm$ 0.034 χ^2/NDF :1727291.4/24

Right Out: 183.634 $\pm$ 0.049 χ^2/NDF : 1869669.1/20

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

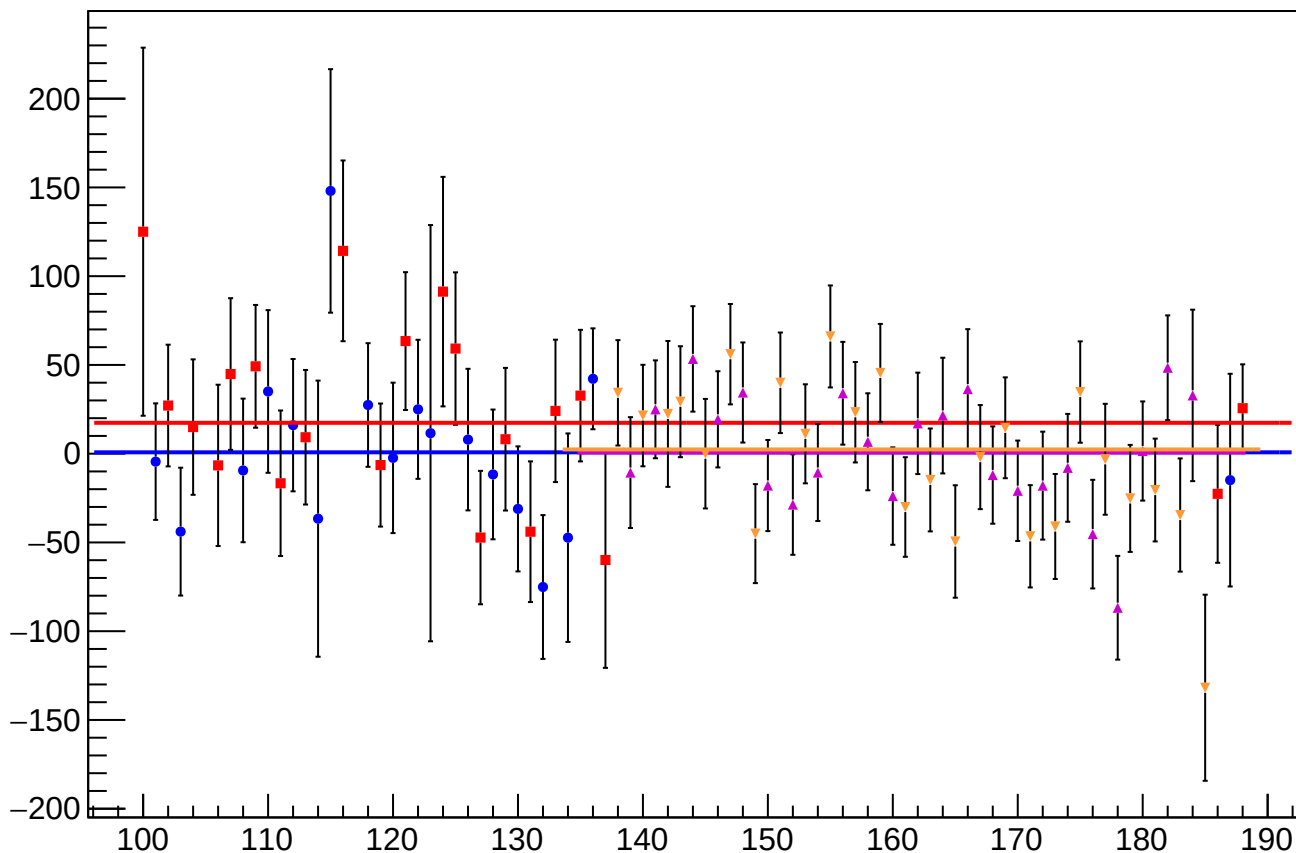
Right: 190.000 $\pm$ 0.037 χ^2/NDF : 2932062.6/38

In: 186.203 $\pm$ 0.028 χ^2/NDF :2621776.4/40

Out: 195.207 $\pm$ 0.028 χ^2/NDF :3682040.4/45

All: 190.712 $\pm$ 0.020 χ^2/NDF : 6355310.8/86

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.766 $\pm$ 9.718 χ^2 /NDF: 15.5/17

Left Out: 2.390 $\pm$ 5.980 χ^2 /NDF:39.1/24

Right Out: 17.401 $\pm$ 8.659 χ^2 /NDF: 19.6/20

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

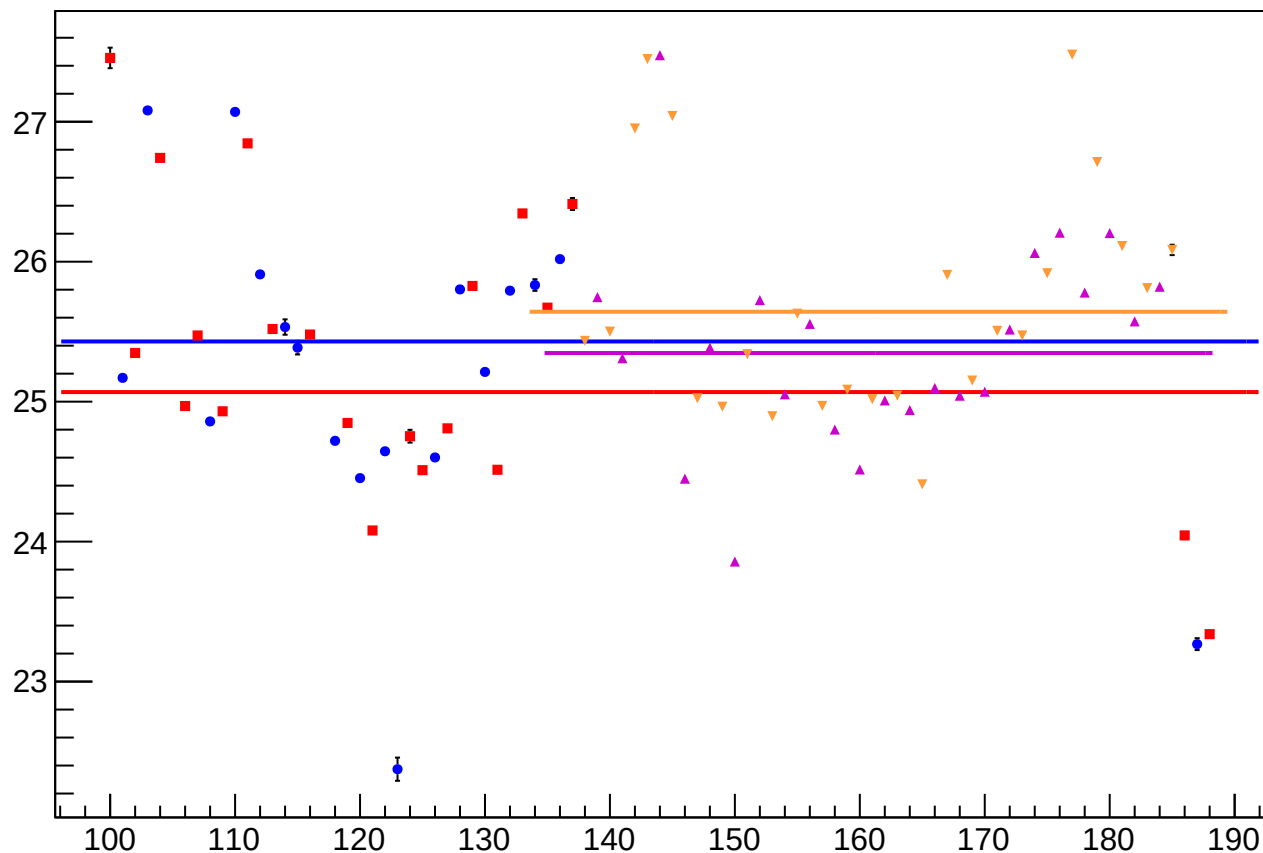
Right: 10.039 $\pm$ 6.465 χ^2 /NDF: 36.7/38

In: 0.676 $\pm$ 5.161 χ^2 /NDF:42.8/40

Out: 7.237 $\pm$ 4.921 χ^2 /NDF:60.7/45

All: 4.113 $\pm$ 3.561 χ^2 /NDF: 104.4/86

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.430+/-0.007 χ^2/NDF : 16543.9/17

Left Out: 25.642+/-0.004 χ^2/NDF : 34802.2/24

Right Out: 25.068+/-0.006 χ^2/NDF : 27110.3/20

Left In: 25.347+/-0.004 χ^2/NDF : 29389.5/22

Left: 25.498+/-0.003 χ^2/NDF : 66578.5/47

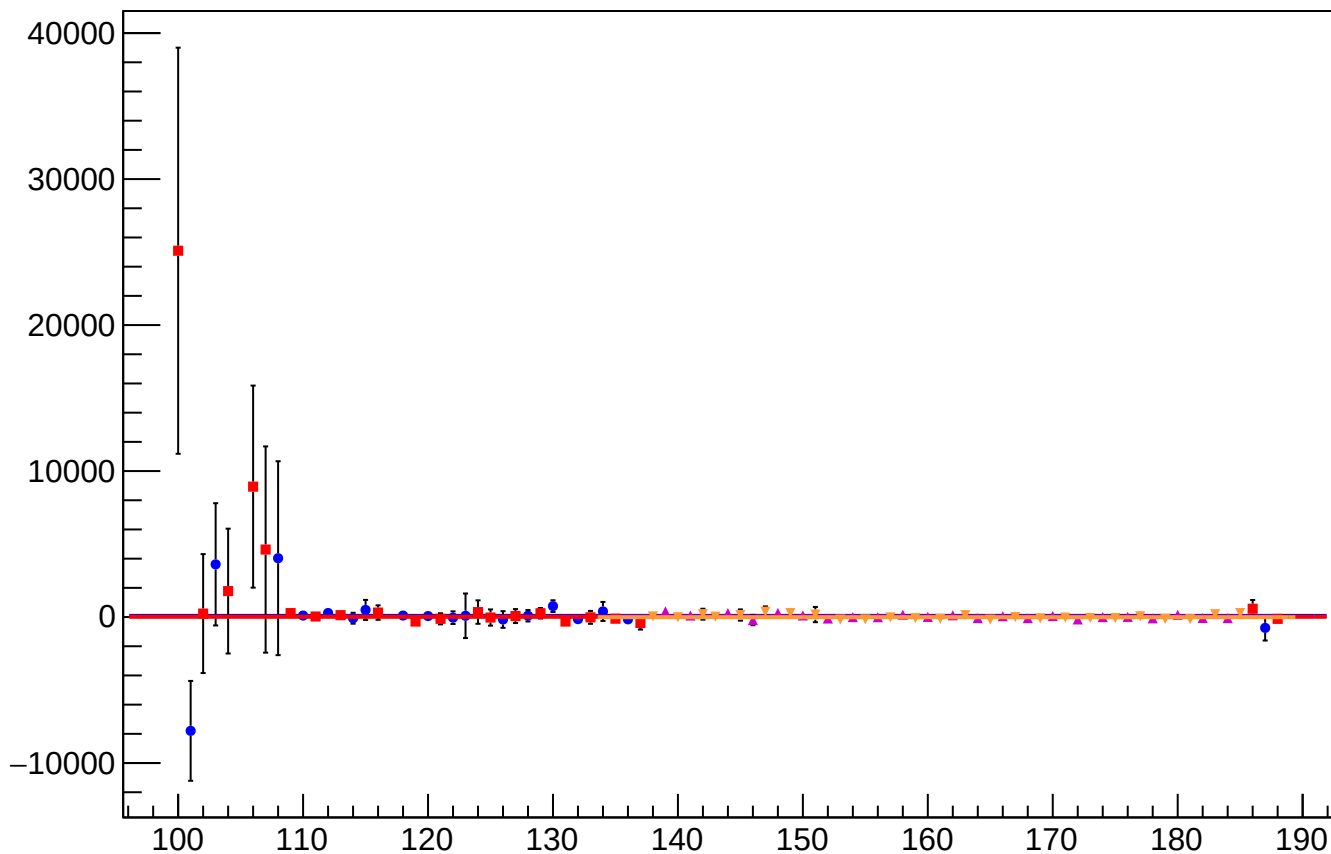
Right: 25.228+/-0.005 χ^2/NDF : 45197.1/38

In: 25.371+/-0.004 χ^2/NDF : 46037.1/40

Out: 25.457+/-0.003 χ^2/NDF : 67860.1/45

All: 25.416+/-0.003 χ^2/NDF : 114190.0/86

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 80.739+/-87.470 χ^2/NDF : 13.4/17

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: 16.445+/-76.911 χ^2/NDF : 13.1/20

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

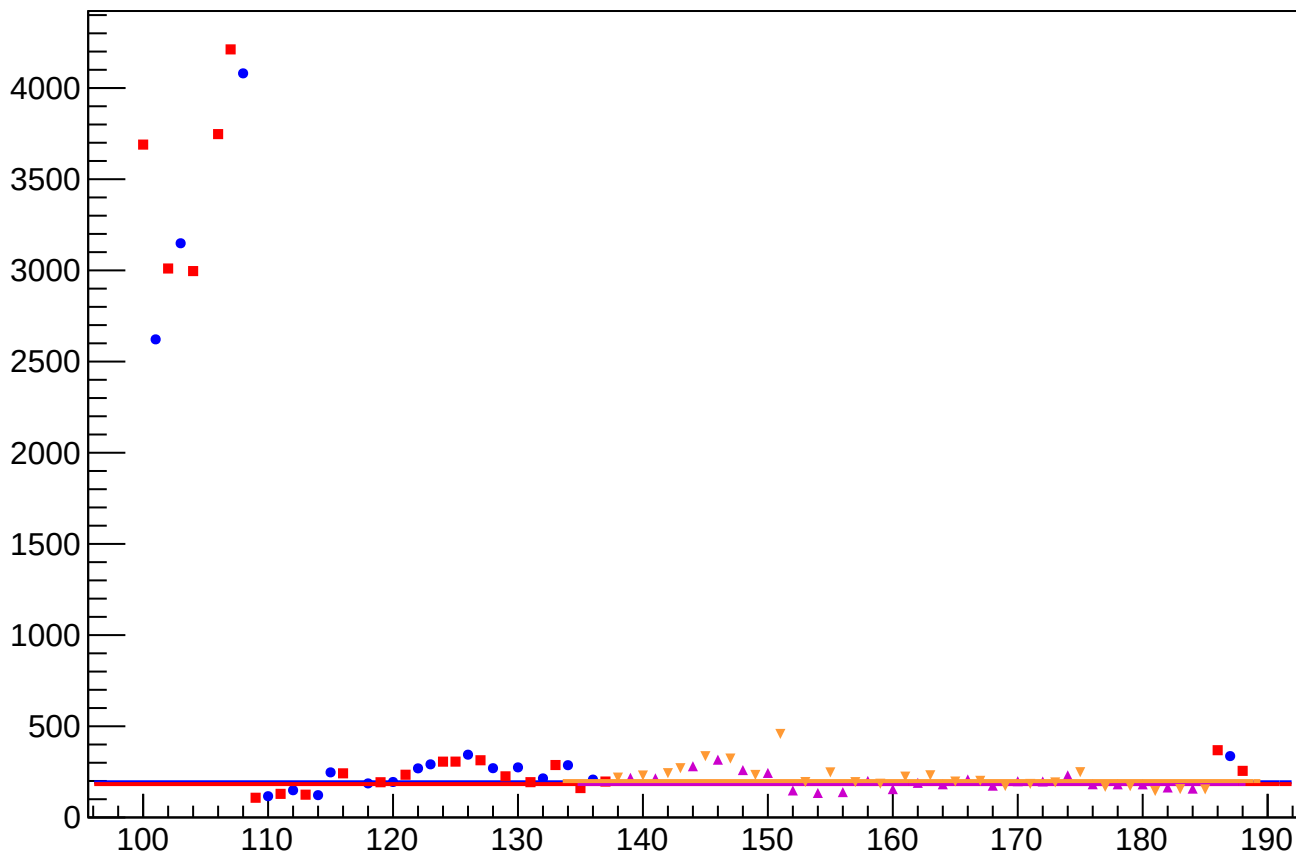
Right: 44.479+/-57.759 χ^2/NDF : 26.8/38

In: 38.718+/-40.712 χ^2/NDF : 20.9/40

Out: -3.556+/-40.880 χ^2/NDF : 21.2/45

All: 17.668+/-28.847 χ^2/NDF : 42.6/86

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.904 $\pm$ 0.062 χ^2 /NDF: 3629147.6/17

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 182.908 $\pm$ 0.054 χ^2 /NDF: 4566754.9/20

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF: 1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

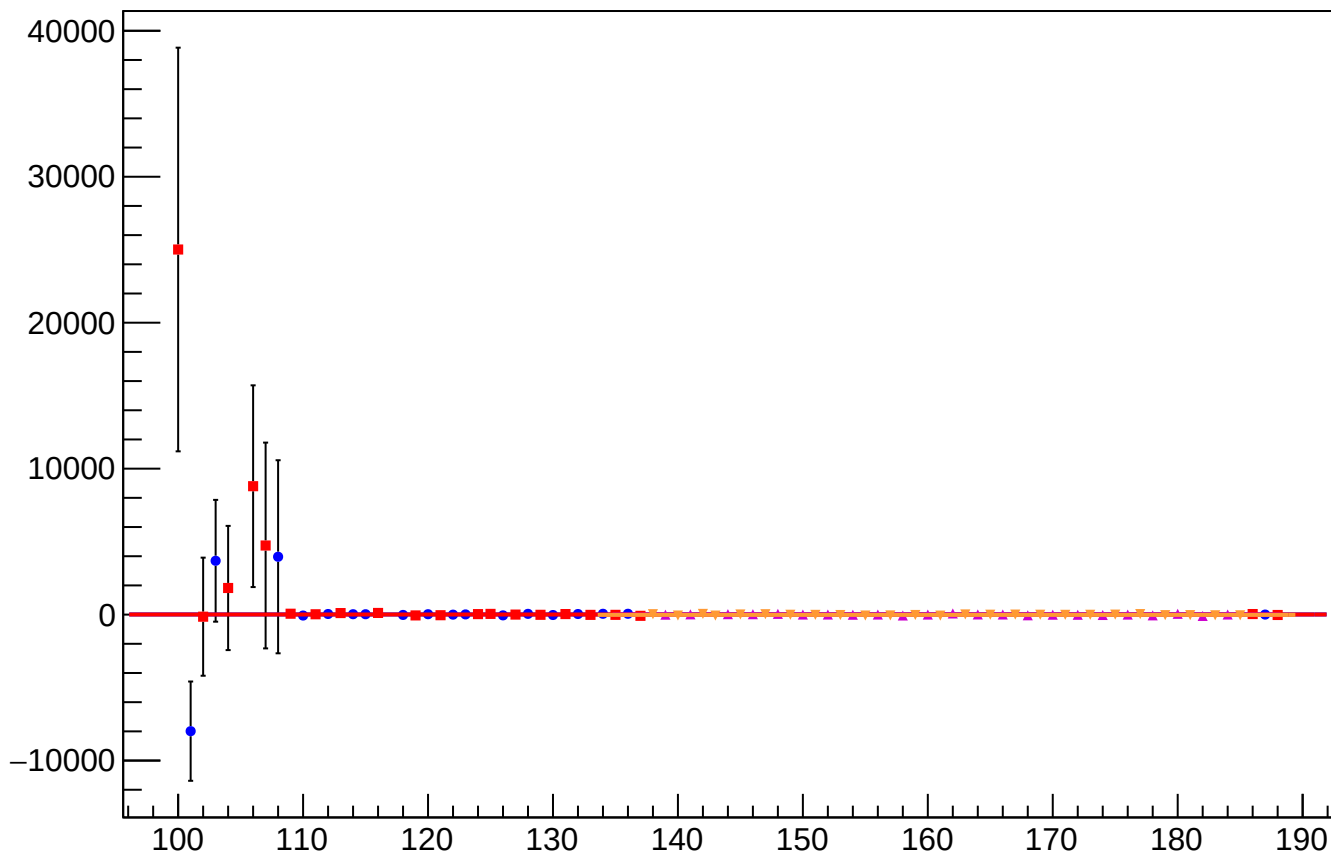
Right: 187.267 $\pm$ 0.041 χ^2 /NDF: 8210630.3/38

In: 185.776 $\pm$ 0.029 χ^2 /NDF: 5058968.8/40

Out: 194.768 $\pm$ 0.029 χ^2 /NDF: 6510883.6/45

All: 190.254 $\pm$ 0.020 χ^2 /NDF: 11618432.7/86

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.240+/-12.069 χ^2/NDF : 18.3/17

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 8.011+/-11.112 χ^2/NDF : 25.6/20

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

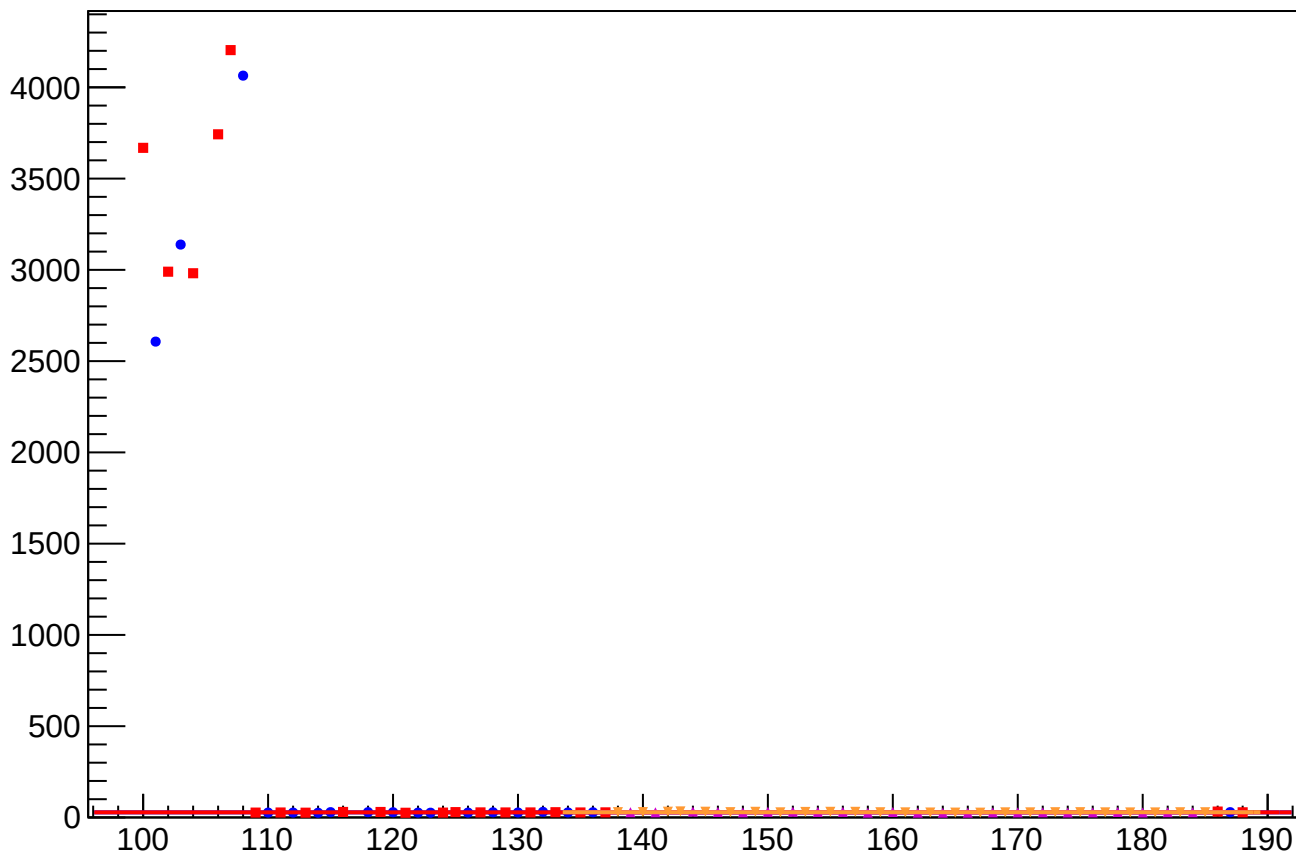
Right: 9.492+/-8.175 χ^2/NDF : 43.9/38

In: 3.728+/-5.995 χ^2/NDF : 50.8/40

Out: -11.146+/-5.740 χ^2/NDF : 51.4/45

All: -4.032+/-4.146 χ^2/NDF : 105.4/86

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.889 $\pm$ 0.009 χ^2 /NDF: 3027439.1/17

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.990 $\pm$ 0.008 χ^2 /NDF: 3491177.1/20

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

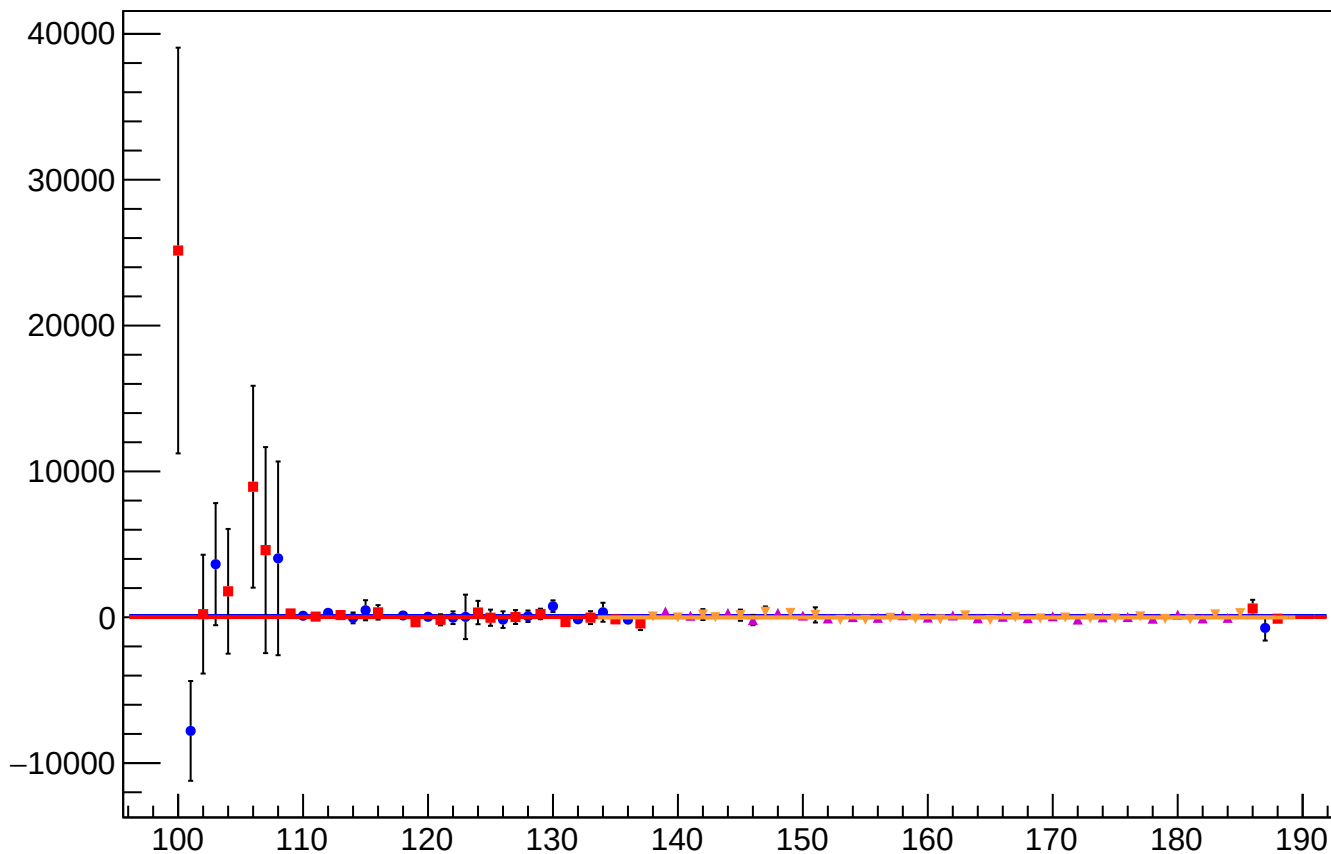
Right: 27.943 $\pm$ 0.006 χ^2 /NDF: 6518691.9/38

In: 28.482 $\pm$ 0.004 χ^2 /NDF: 3157678.2/40

Out: 28.506 $\pm$ 0.004 χ^2 /NDF: 3607533.1/45

All: 28.495 $\pm$ 0.003 χ^2 /NDF: 6765227.5/86

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 85.396+/-87.199 χ^2/NDF : 13.6/17

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: 10.185+/-76.690 χ^2/NDF : 13.9/20

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

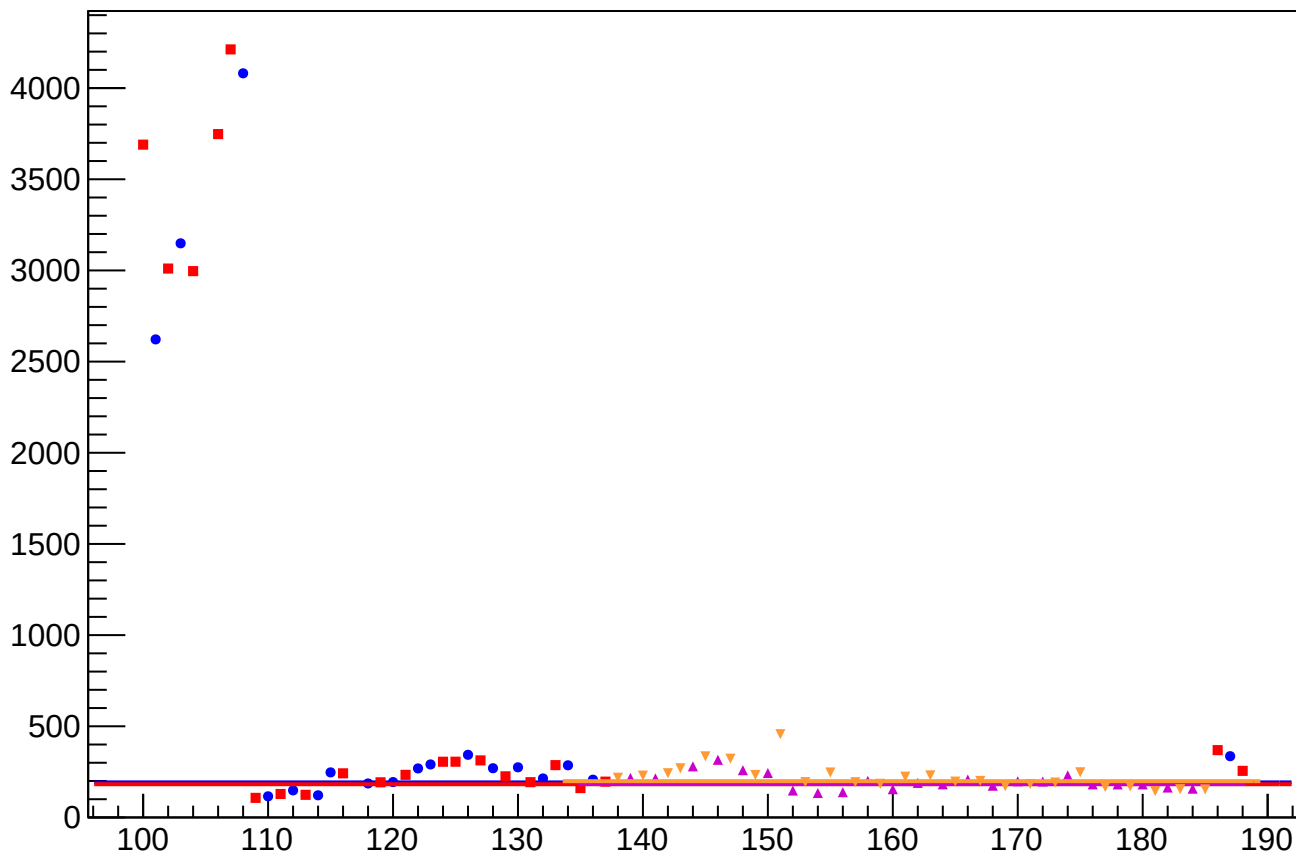
Right: 42.987+/-57.587 χ^2/NDF : 27.9/38

In: 39.897+/-40.622 χ^2/NDF : 21.4/40

Out: -7.073+/-40.782 χ^2/NDF : 22.8/45

All: 16.505+/-28.780 χ^2/NDF : 44.9/86

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.191 $\pm$ 0.062 χ^2 /NDF: 3641346.7/17

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 182.254 $\pm$ 0.054 χ^2 /NDF: 4582880.4/20

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

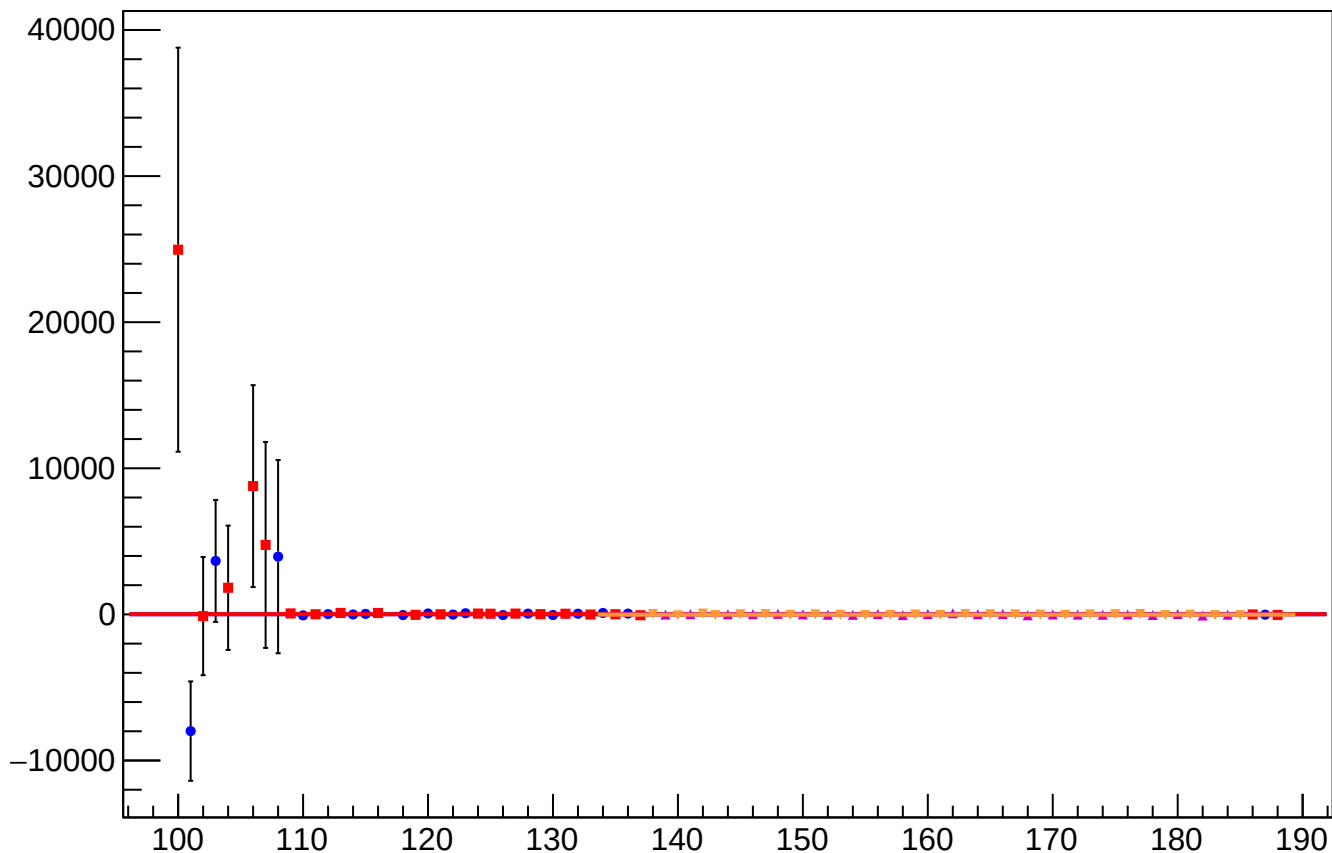
Right: 186.588 $\pm$ 0.041 χ^2 /NDF: 8238871.4/38

In: 185.340 $\pm$ 0.029 χ^2 /NDF: 5069454.1/40

Out: 194.262 $\pm$ 0.029 χ^2 /NDF: 6528881.9/45

All: 189.784 $\pm$ 0.020 χ^2 /NDF: 11646382.7/80

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.744 ± 12.147 $\chi^2/\text{NDF}: 22.6/17$

Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$

Right Out: 17.647 ± 11.164 $\chi^2/\text{NDF}: 20.7/20$

Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$

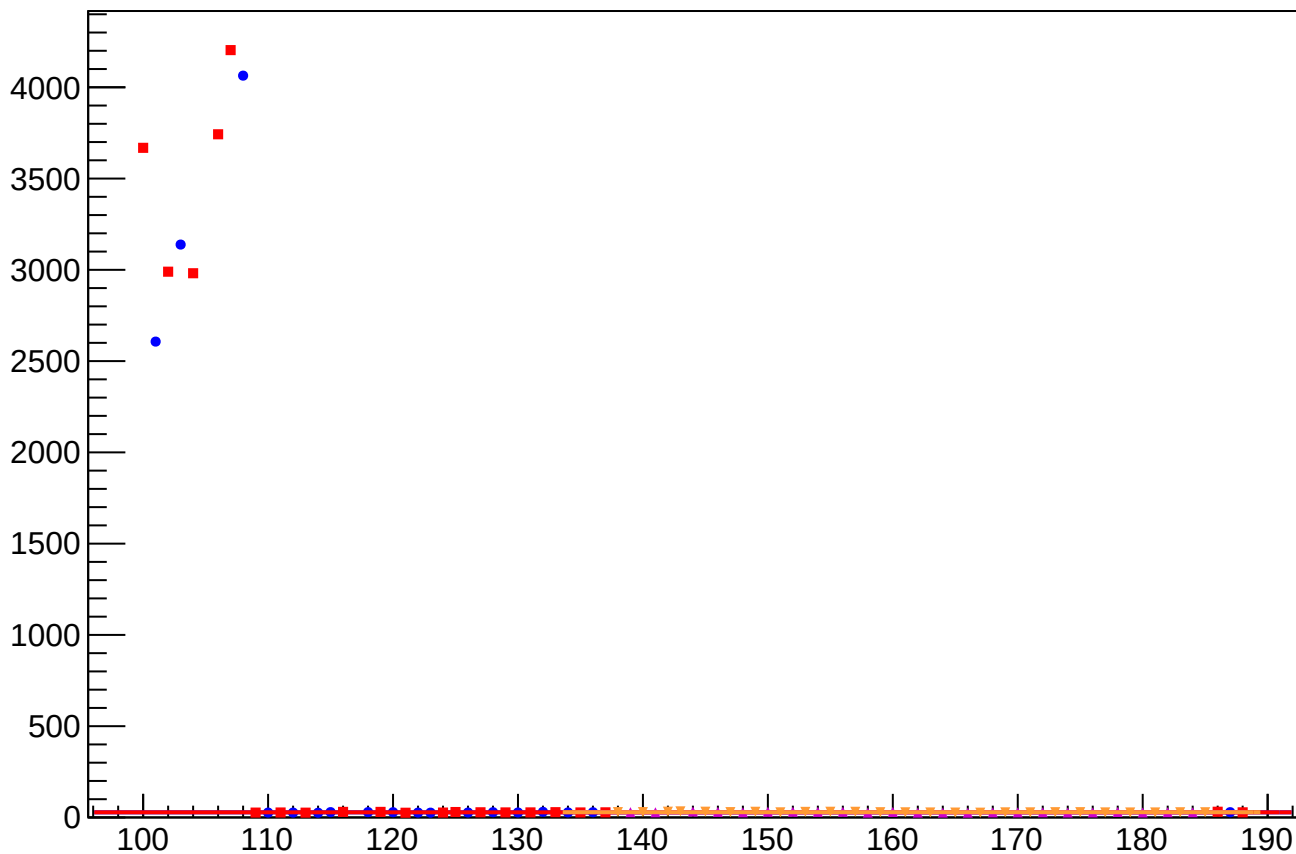
Right: 13.570 ± 8.220 $\chi^2/\text{NDF}: 43.7/38$

In: 1.775 ± 6.024 $\chi^2/\text{NDF}: 49.2/40$

Out: -6.900 ± 5.766 $\chi^2/\text{NDF}: 43.8/45$

All: -2.752 ± 4.165 $\chi^2/\text{NDF}: 94.1/86$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.064 $\pm$ 0.009 χ^2 /NDF: 3027574.7/17

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 28.122 $\pm$ 0.008 χ^2 /NDF: 3488197.7/20

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

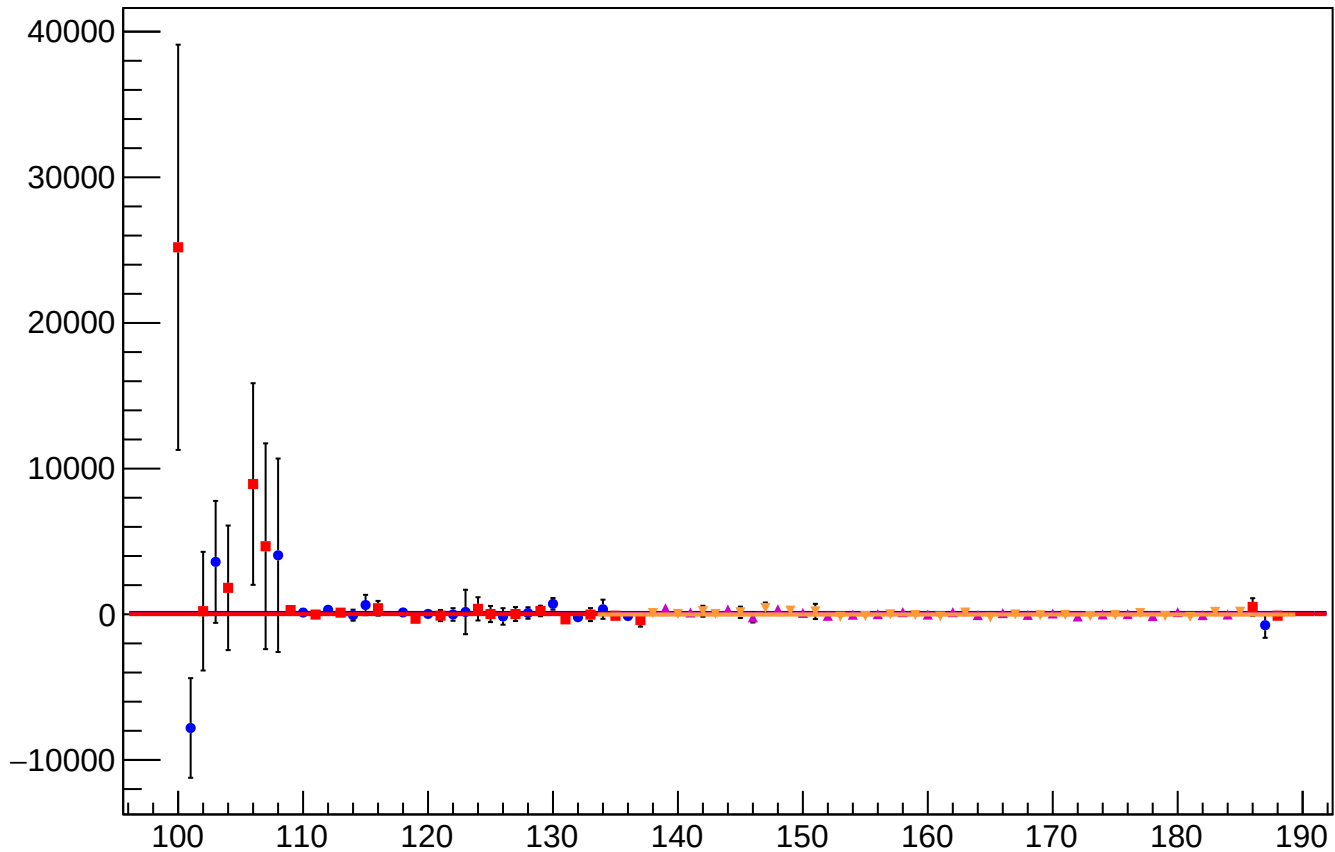
Right: 28.096 $\pm$ 0.006 χ^2 /NDF: 6515797.3/38

In: 28.617 $\pm$ 0.004 χ^2 /NDF: 3161351.7/40

Out: 28.630 $\pm$ 0.004 χ^2 /NDF: 3615987.8/45

All: 28.624 $\pm$ 0.003 χ^2 /NDF: 6777344.2/86

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.806+/-88.223 χ^2/NDF : 13.5/17

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: 7.758+/-77.655 χ^2/NDF : 13.1/20

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

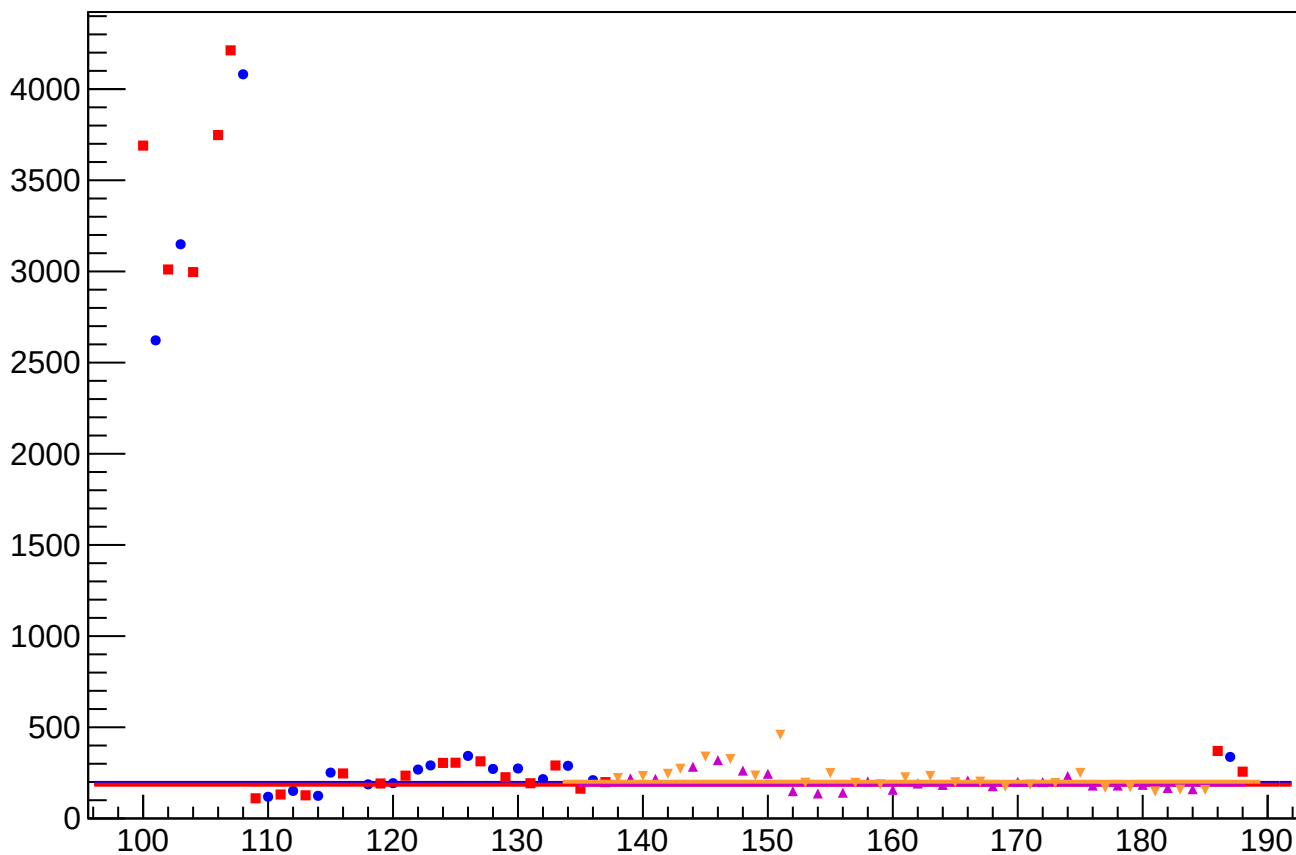
Right: 44.886+/-58.290 χ^2/NDF : 27.1/38

In: 44.803+/-41.124 χ^2/NDF : 21.7/40

Out: -7.827+/-41.279 χ^2/NDF : 21.3/45

All: 18.587+/-29.134 χ^2/NDF : 43.8/86

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.907 $\pm$ 0.062 χ^2 /NDF: 3592755.3/17

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 185.131 $\pm$ 0.055 χ^2 /NDF: 4516430.3/20

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

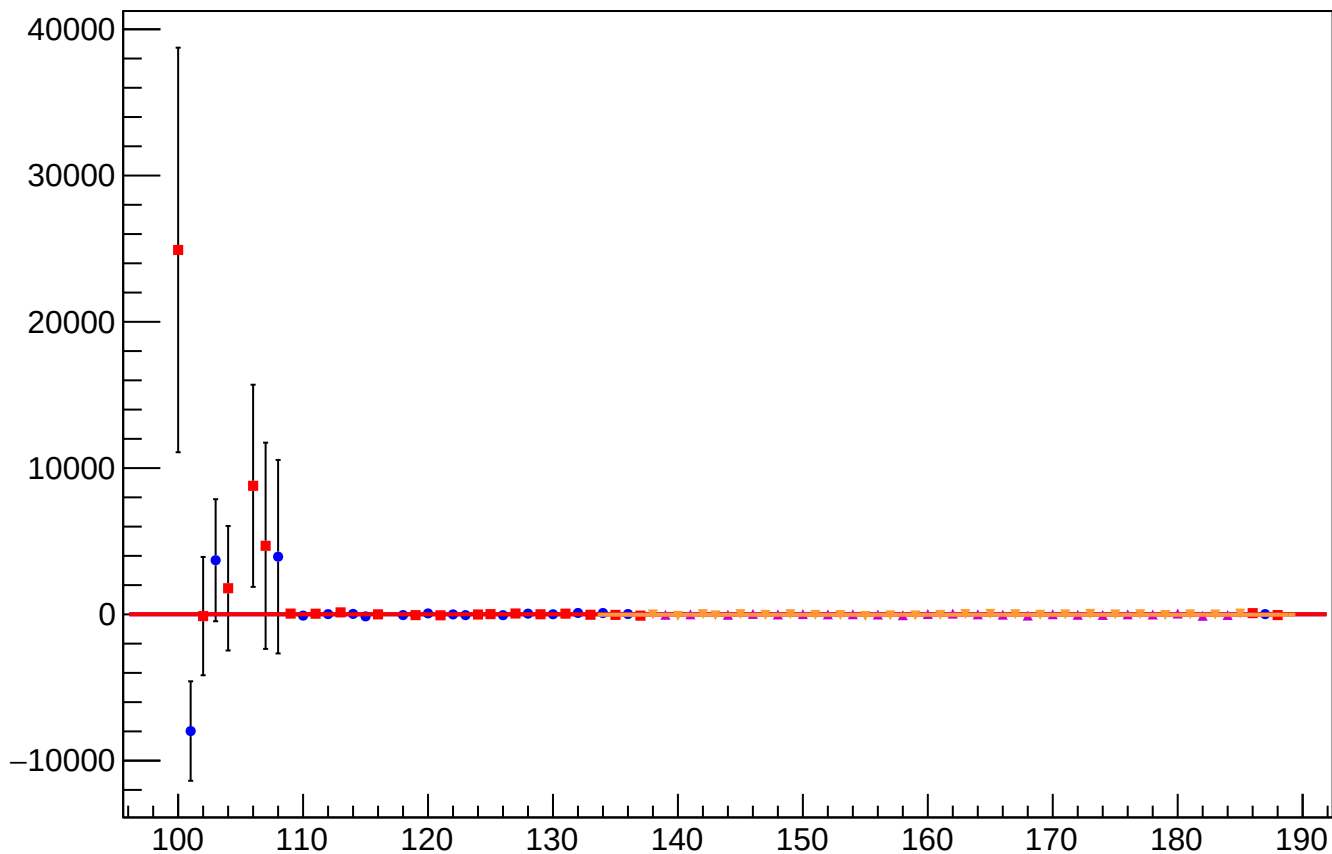
Right: 189.399 $\pm$ 0.041 χ^2 /NDF: 8123022.1/38

In: 187.840 $\pm$ 0.029 χ^2 /NDF:4990028.5/40

Out: 196.877 $\pm$ 0.029 χ^2 /NDF:6435109.7/45

All: 192.341 $\pm$ 0.021 χ^2 /NDF: 11473240.6/86

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.464+/-14.776 χ^2/NDF : 20.1/17

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: 7.152+/-13.529 χ^2/NDF : 25.2/20

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

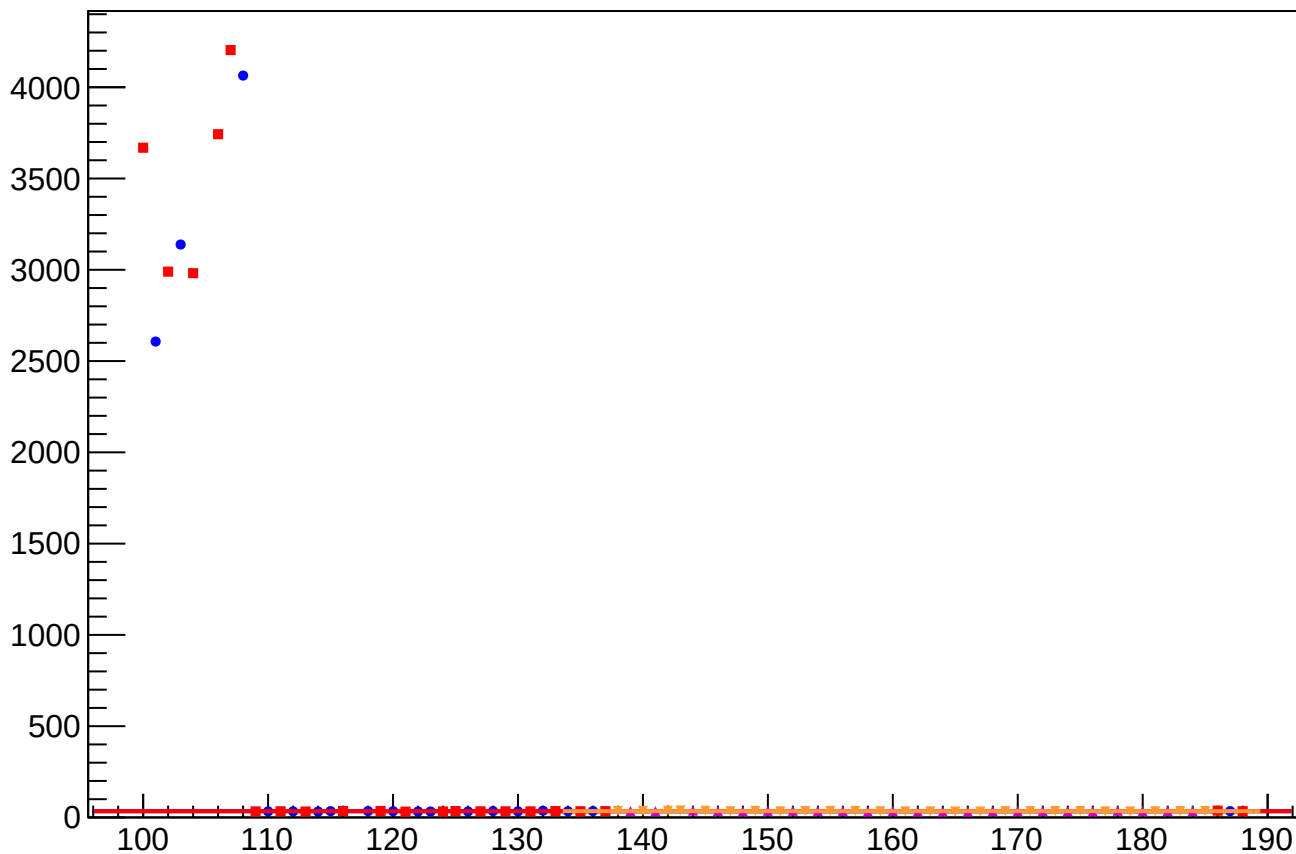
Right: 6.838+/-9.978 χ^2/NDF : 45.3/38

In: -2.931+/-7.263 χ^2/NDF : 41.6/40

Out: -15.921+/-6.935 χ^2/NDF : 54.1/45

All: -9.726+/-5.016 χ^2/NDF : 97.4/86

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.179+/-0.010 χ^2/NDF : 3006162.0/17

Left Out: 34.617+/-0.006 χ^2/NDF : 57868.4/24

Right Out: 34.163+/-0.010 χ^2/NDF : 3458065.2/20

Left In: 34.682+/-0.006 χ^2/NDF : 59834.3/22

Left: 34.649+/-0.004 χ^2/NDF : 117764.0/47

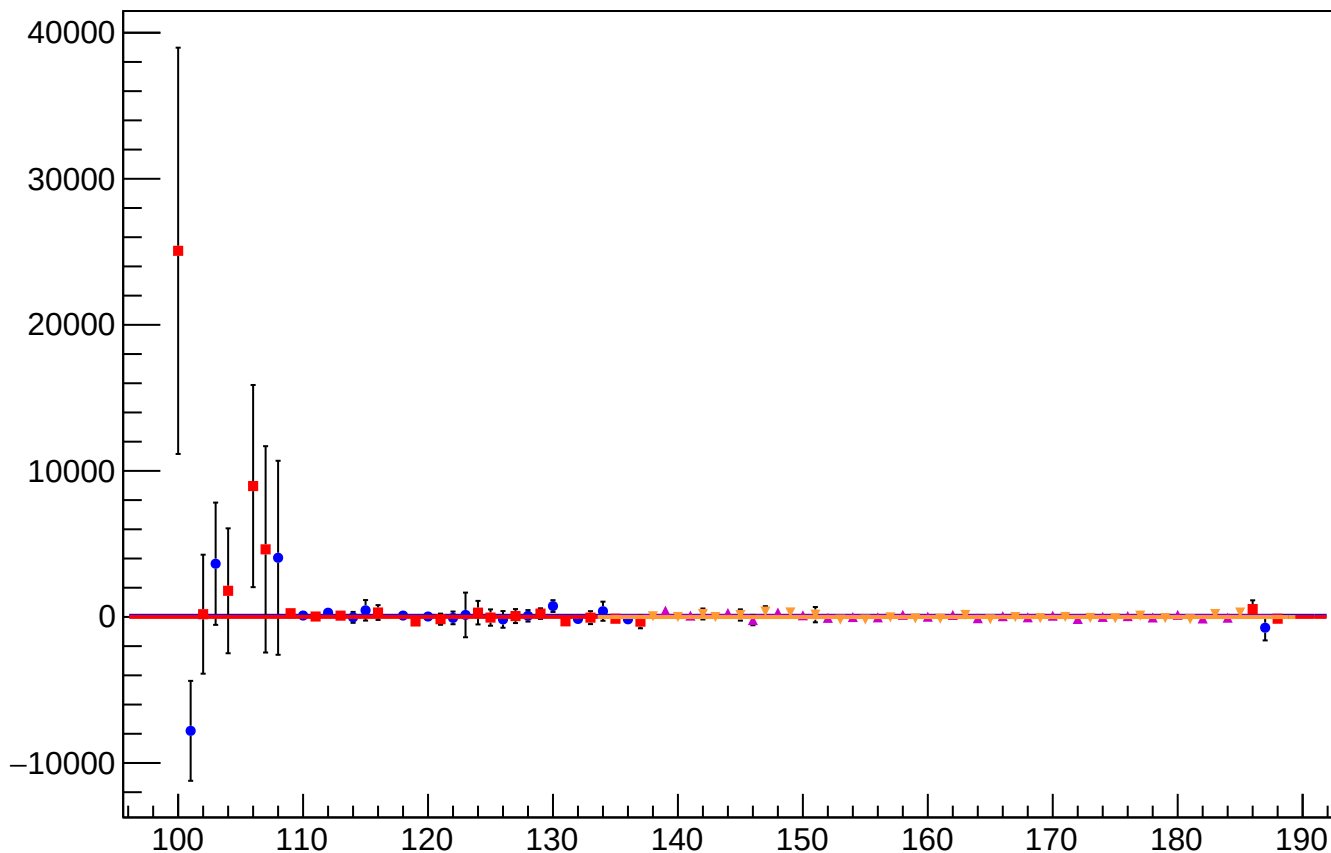
Right: 34.170+/-0.007 χ^2/NDF : 6464228.4/38

In: 34.560+/-0.005 χ^2/NDF : 3067753.8/40

Out: 34.498+/-0.005 χ^2/NDF : 3517596.0/45

All: 34.528+/-0.004 χ^2/NDF : 6585426.3/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 78.269+/-87.789 χ^2/NDF : 13.4/17

Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24

Right Out: 2.561+/-77.179 χ^2/NDF : 12.1/20

Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47

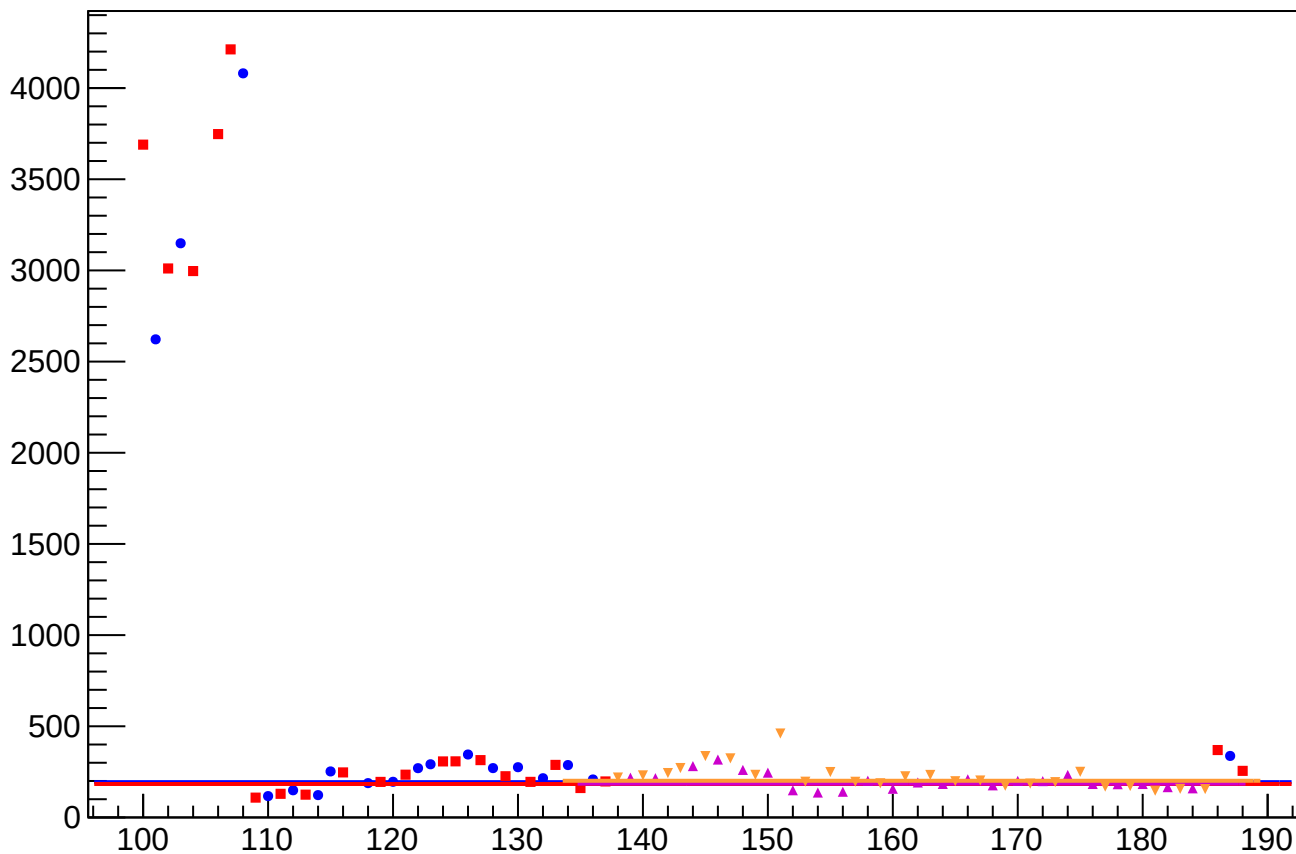
Right: 35.566+/-57.964 χ^2/NDF : 25.9/38

In: 44.437+/-41.037 χ^2/NDF : 20.7/40

Out: -4.680+/-41.163 χ^2/NDF : 20.9/45

All: 19.954+/-29.062 χ^2/NDF : 42.3/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.604 $\pm$ 0.062 χ^2 /NDF: 3630752.4/17

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF: 1848437.4/24

Right Out: 183.574 $\pm$ 0.055 χ^2 /NDF: 4567812.2/20

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

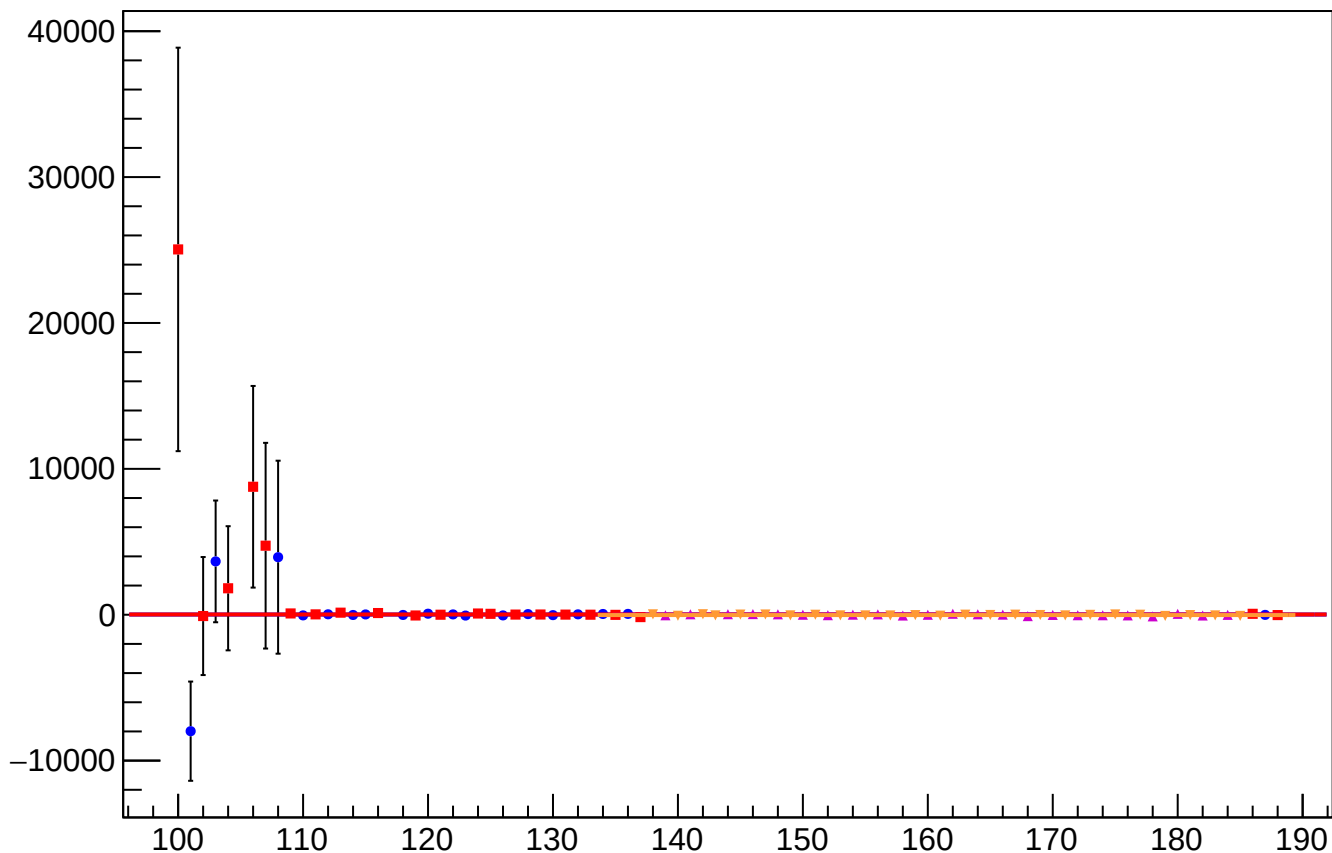
Right: 187.947 $\pm$ 0.041 χ^2 /NDF: 8213289.6/38

In: 187.370 $\pm$ 0.029 χ^2 /NDF: 5015067.3/40

Out: 196.185 $\pm$ 0.029 χ^2 /NDF: 6490874.3/45

All: 191.764 $\pm$ 0.021 χ^2 /NDF: 11551938.4/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 13.551 $\pm$ 13.472 χ^2 /NDF: 14.9/17

Left Out: -23.320 $\pm$ 7.352 χ^2 /NDF:18.3/24

Right Out: 18.311 $\pm$ 12.334 χ^2 /NDF: 29.7/20

Left In: -6.386 $\pm$ 7.577 χ^2 /NDF:38.7/22

Left: -15.108 $\pm$ 5.276 χ^2 /NDF: 59.6/47

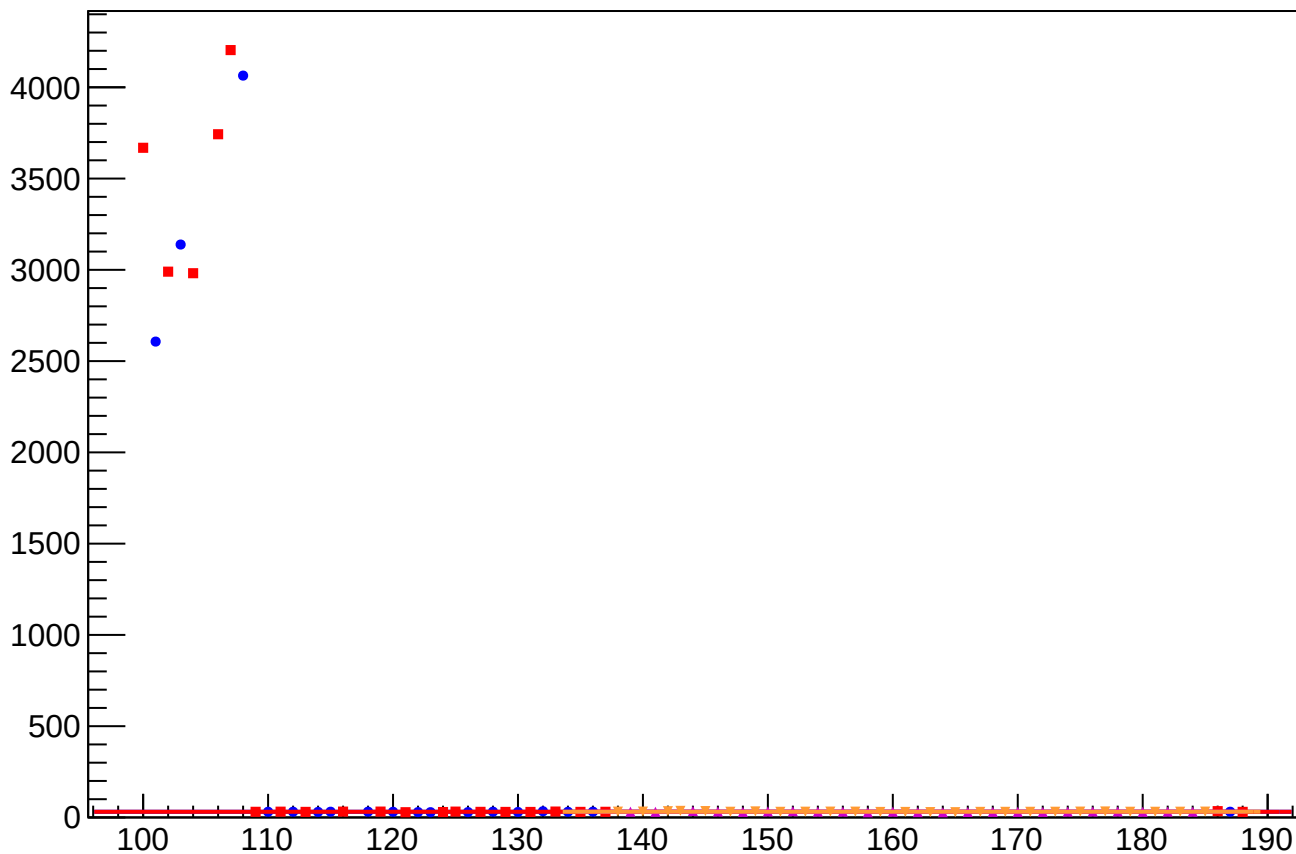
Right: 16.141 $\pm$ 9.098 χ^2 /NDF: 44.6/38

In: -1.595 $\pm$ 6.604 χ^2 /NDF:55.3/40

Out: -12.407 $\pm$ 6.315 χ^2 /NDF:56.4/45

All: -7.243 $\pm$ 4.564 χ^2 /NDF: 113.1/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.163+/-0.010 χ^2/NDF : 3014178.2/17

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 31.113+/-0.009 χ^2/NDF : 3467085.1/20

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

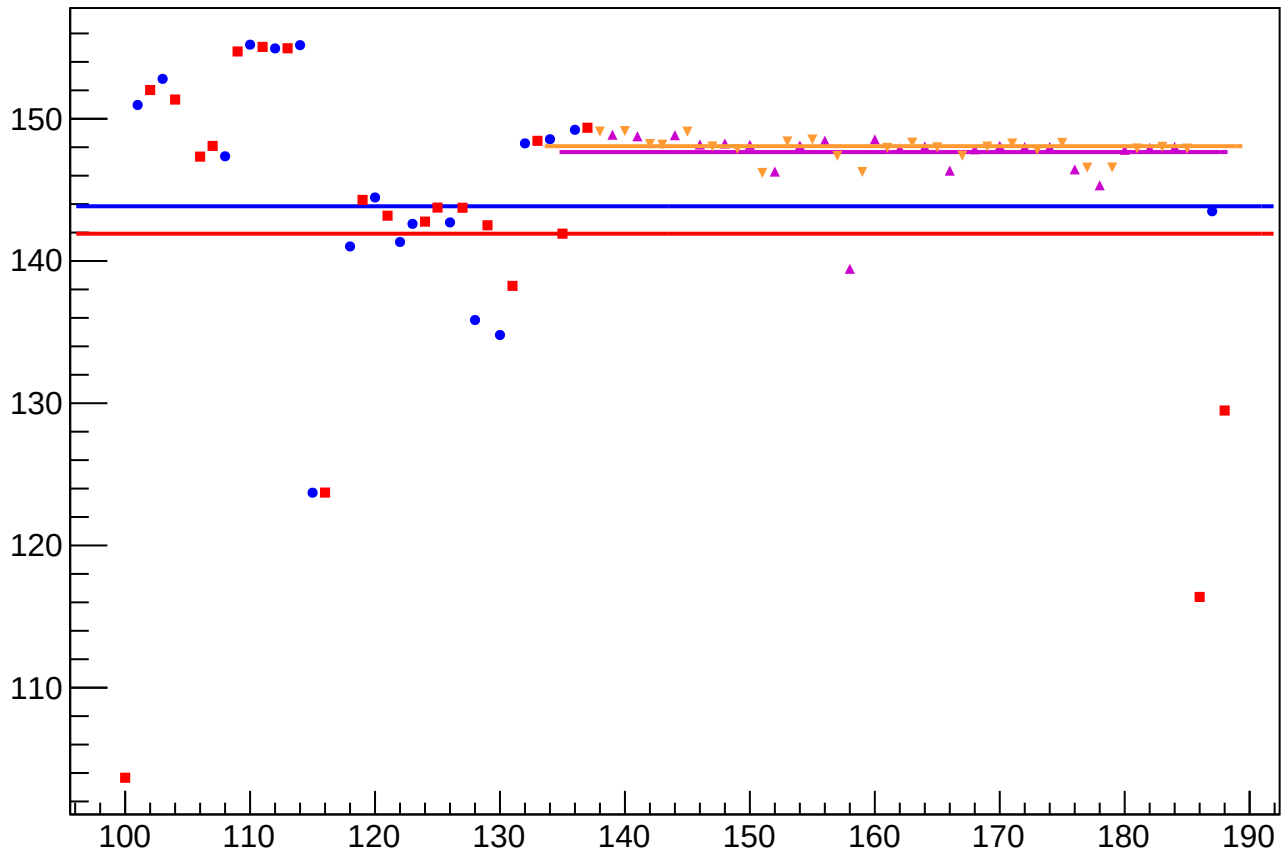
Right: 31.136+/-0.006 χ^2/NDF : 6481278.2/38

In: 31.400+/-0.005 χ^2/NDF : 3102792.1/40

Out: 31.390+/-0.004 χ^2/NDF : 3550389.5/45

All: 31.395+/-0.003 χ^2/NDF : 6653184.1/86

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.849 $\pm$ 0.000 χ^2 /NDF: 3448402978.1/17

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 141.919 $\pm$ 0.000 χ^2 /NDF: 7195879649.4/20

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

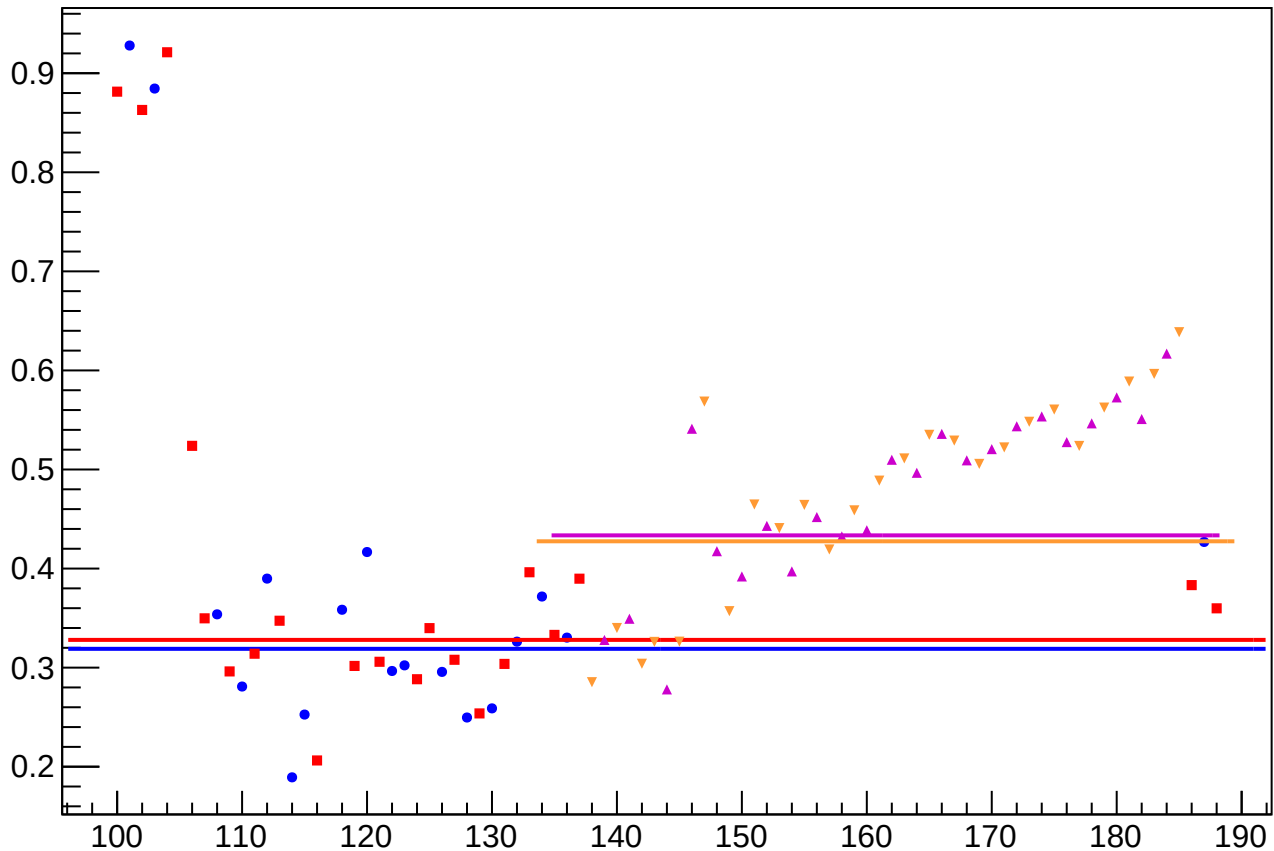
Right: 142.809 $\pm$ 0.000 χ^2 /NDF: 10756677234.7/38

In: 146.155 $\pm$ 0.000 χ^2 /NDF: 4284816531.8/40

Out: 145.525 $\pm$ 0.000 χ^2 /NDF: 8714147292.9/45

All: 145.823 $\pm$ 0.000 χ^2 /NDF: 13028661234.7/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1291491.6/17

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.328 $\pm$ 0.000 χ^2 /NDF: 1248019.4/20

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

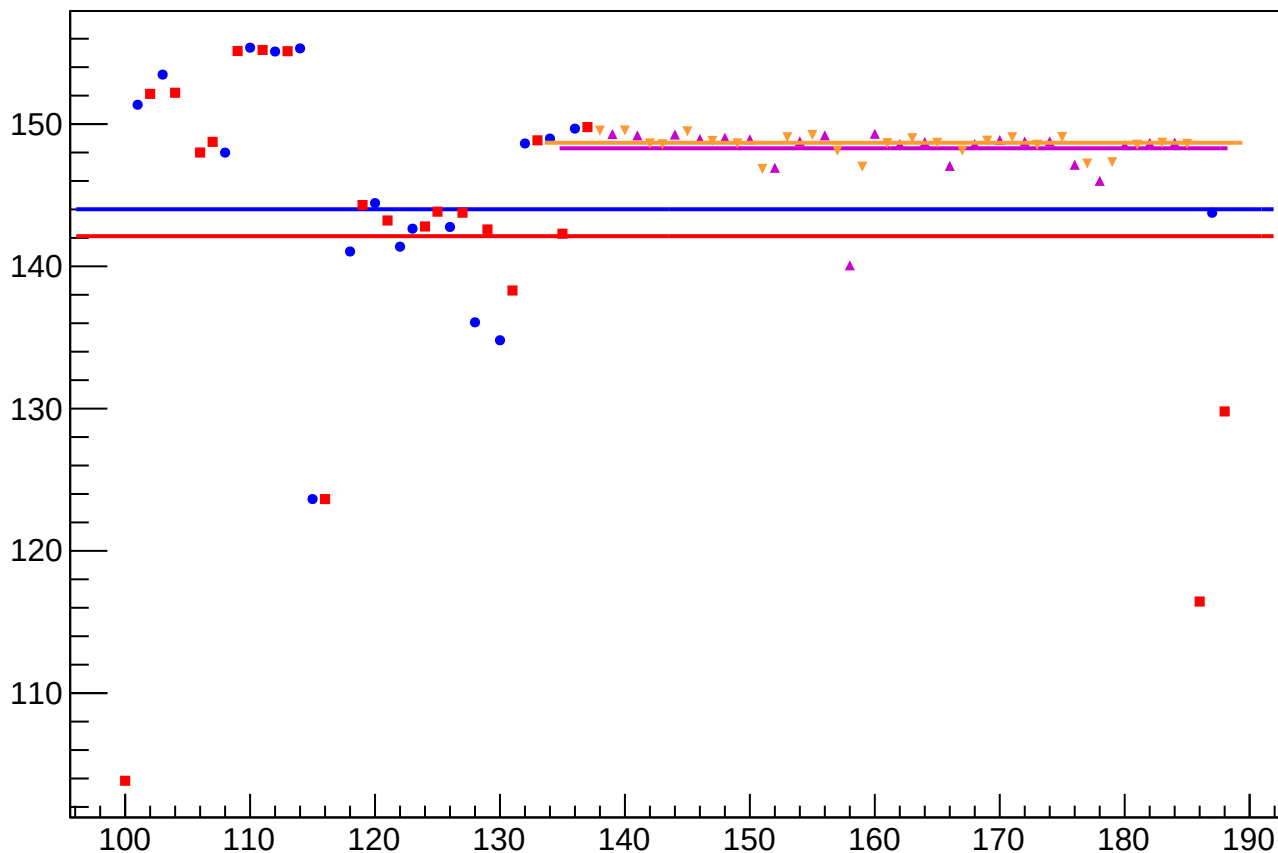
Right: 0.324 $\pm$ 0.000 χ^2 /NDF: 2544425.0/38

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3660353.5/40

Out: 0.386 $\pm$ 0.000 χ^2 /NDF:3900560.6/45

All: 0.387 $\pm$ 0.000 χ^2 /NDF: 7561498.7/86

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.013 $\pm$ 0.000 χ^2 /NDF: 3492269657.2/17

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.120 $\pm$ 0.000 χ^2 /NDF: 7139264546.2/20

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

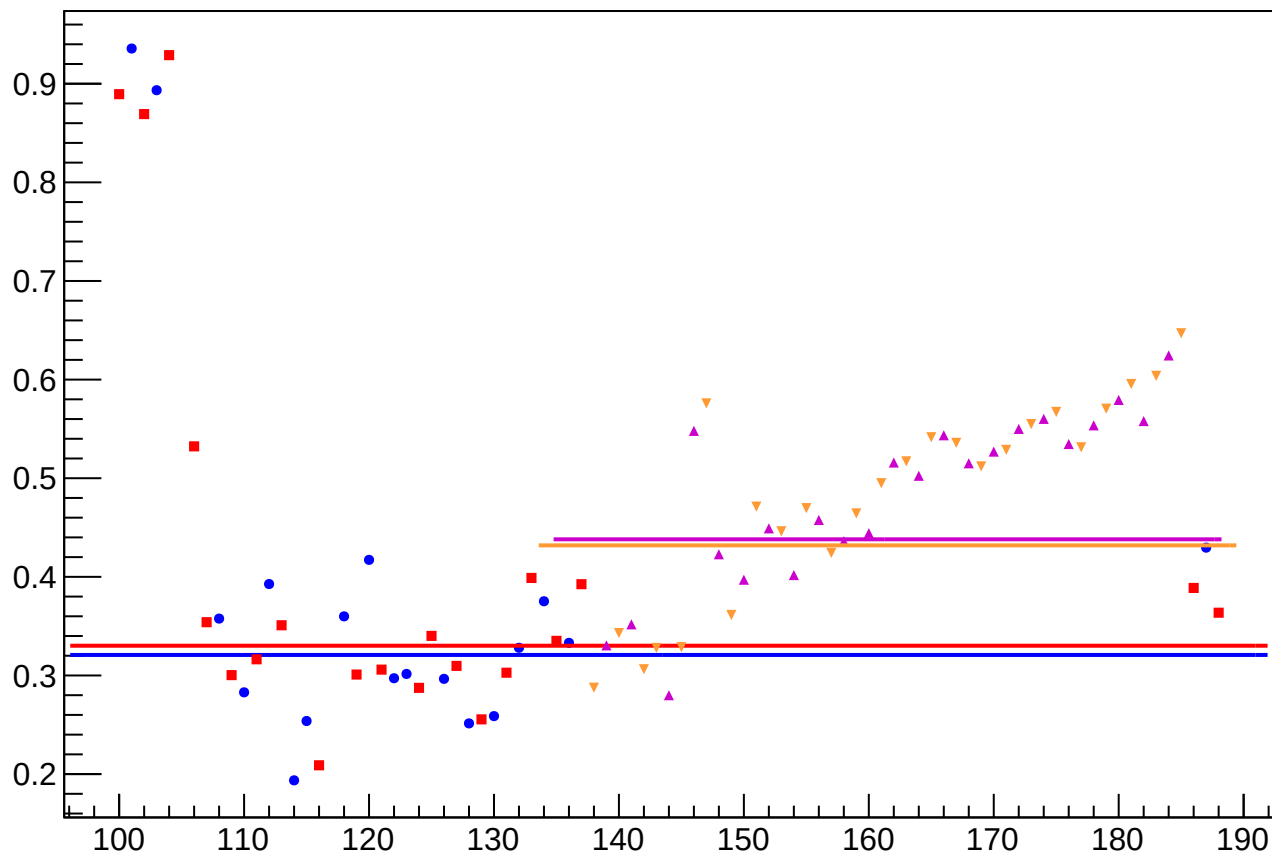
Right: 142.994 $\pm$ 0.000 χ^2 /NDF: 10738326063.2/38

In: 146.595 $\pm$ 0.000 χ^2 /NDF: 4437745096.5/40

Out: 145.955 $\pm$ 0.000 χ^2 /NDF: 8817880923.4/45

All: 146.258 $\pm$ 0.000 χ^2 /NDF: 13285750212.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.321+/-0.000 χ^2/NDF : 1293131.8/17

Left Out: 0.432+/-0.000 χ^2/NDF : 1924979.0/24

Right Out: 0.330+/-0.000 χ^2/NDF : 1253119.6/20

Left In: 0.438+/-0.000 χ^2/NDF : 1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

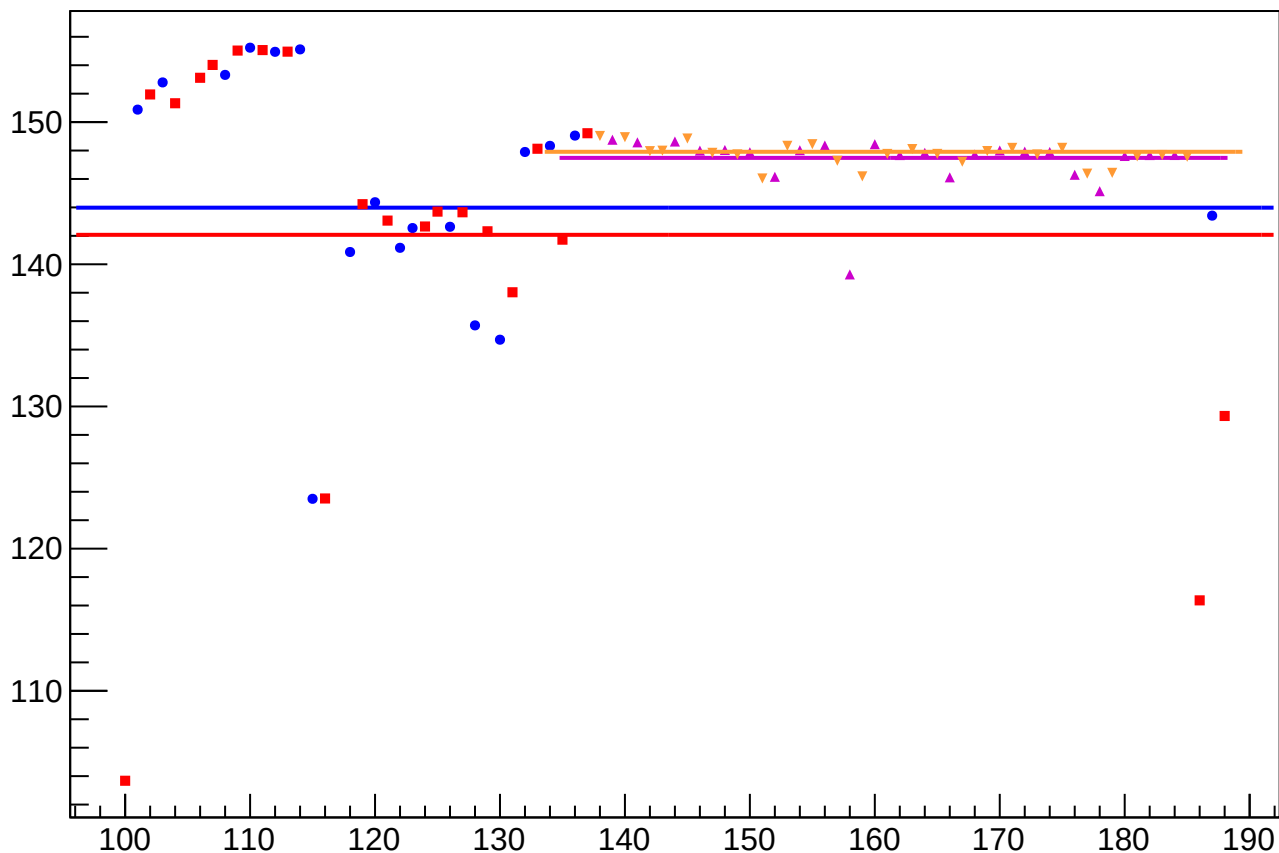
Right: 0.326+/-0.000 χ^2/NDF : 2551464.8/38

In: 0.391+/-0.000 χ^2/NDF : 3715373.7/40

Out: 0.390+/-0.000 χ^2/NDF : 3958946.9/45

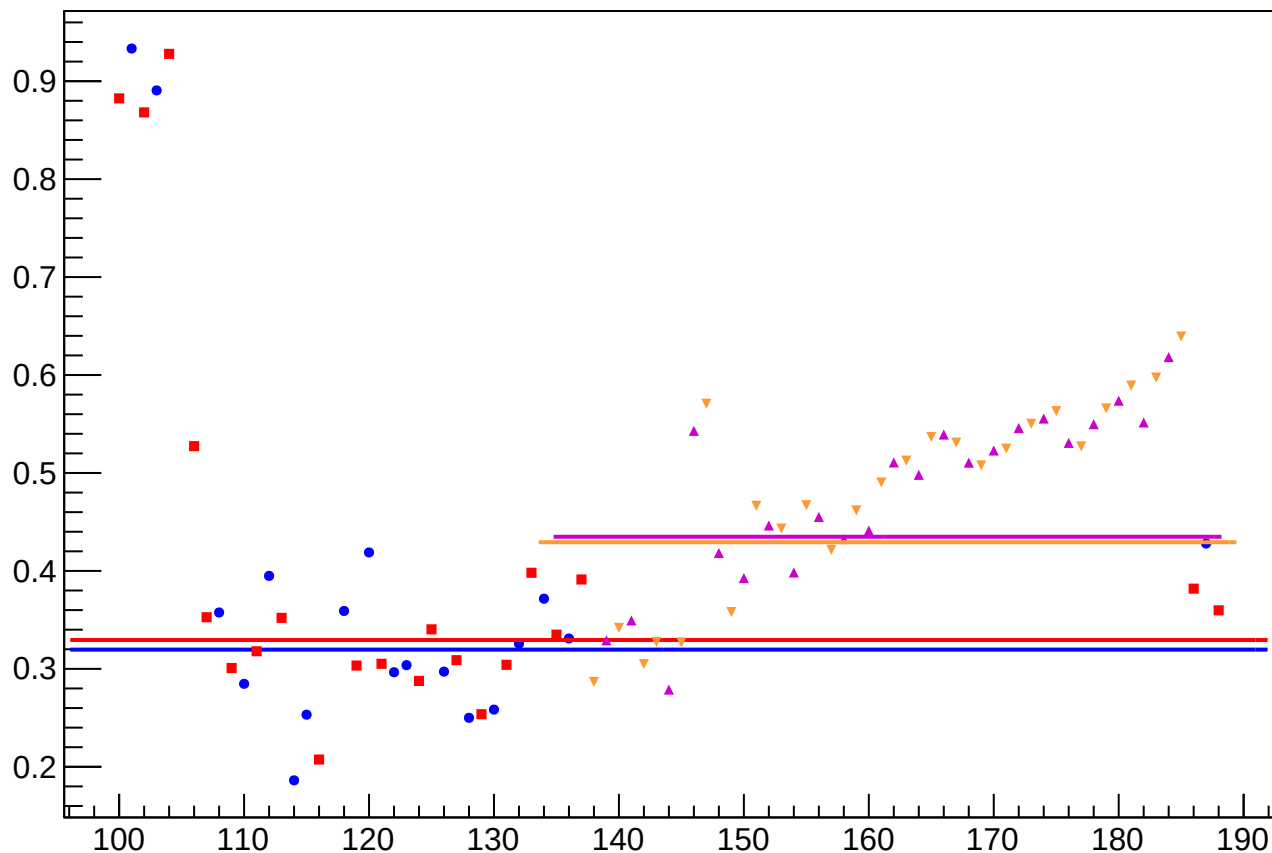
All: 0.390+/-0.000 χ^2/NDF : 7674847.0/86

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.982 $\pm$ 0.000	χ^2 /NDF: 3662003860.9/17	Left: 147.706 $\pm$ 0.000	χ^2 /NDF: 415263003.2/47
Left Out: 147.912 $\pm$ 0.000	χ^2 /NDF: 64463426.1/24	Right: 142.954 $\pm$ 0.000	χ^2 /NDF: 11361225935.3/38
Right Out: 142.072 $\pm$ 0.000	χ^2 /NDF: 7589904699.9/20	In: 146.100 $\pm$ 0.000	χ^2 /NDF: 4417801325.0/40
Left In: 147.483 $\pm$ 0.000	χ^2 /NDF: 342674720.4/22	Out: 145.494 $\pm$ 0.000	χ^2 /NDF: 8951092878.3/45
		All: 145.781 $\pm$ 0.000	χ^2 /NDF: 13396148317.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.320 $\pm$ 0.000 χ^2 /NDF: 1306270.8/17

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.329 $\pm$ 0.000 χ^2 /NDF: 1249792.7/20

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

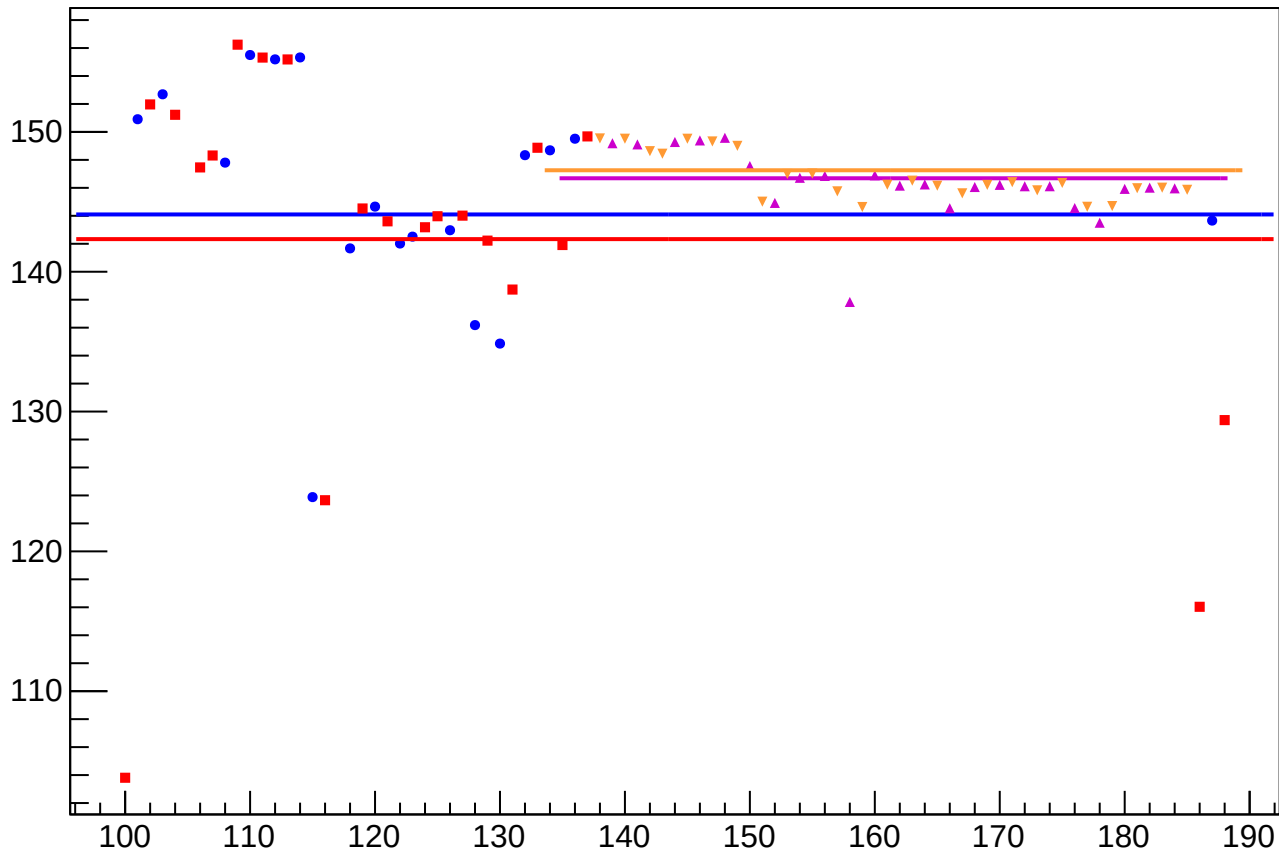
Right: 0.325 $\pm$ 0.000 χ^2 /NDF: 2561851.2/38

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3686811.8/40

Out: 0.388 $\pm$ 0.000 χ^2 /NDF:3899140.8/45

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7586237.9/86

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.098 $\pm$ 0.000 χ^2/NDF : 3160421315.8/17

Left Out: 147.257 $\pm$ 0.000 χ^2/NDF : 261906278.3/24

Right Out: 142.333 $\pm$ 0.000 χ^2/NDF : 6899087752.4/20

Left In: 146.685 $\pm$ 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2/NDF : 830580031.2/47

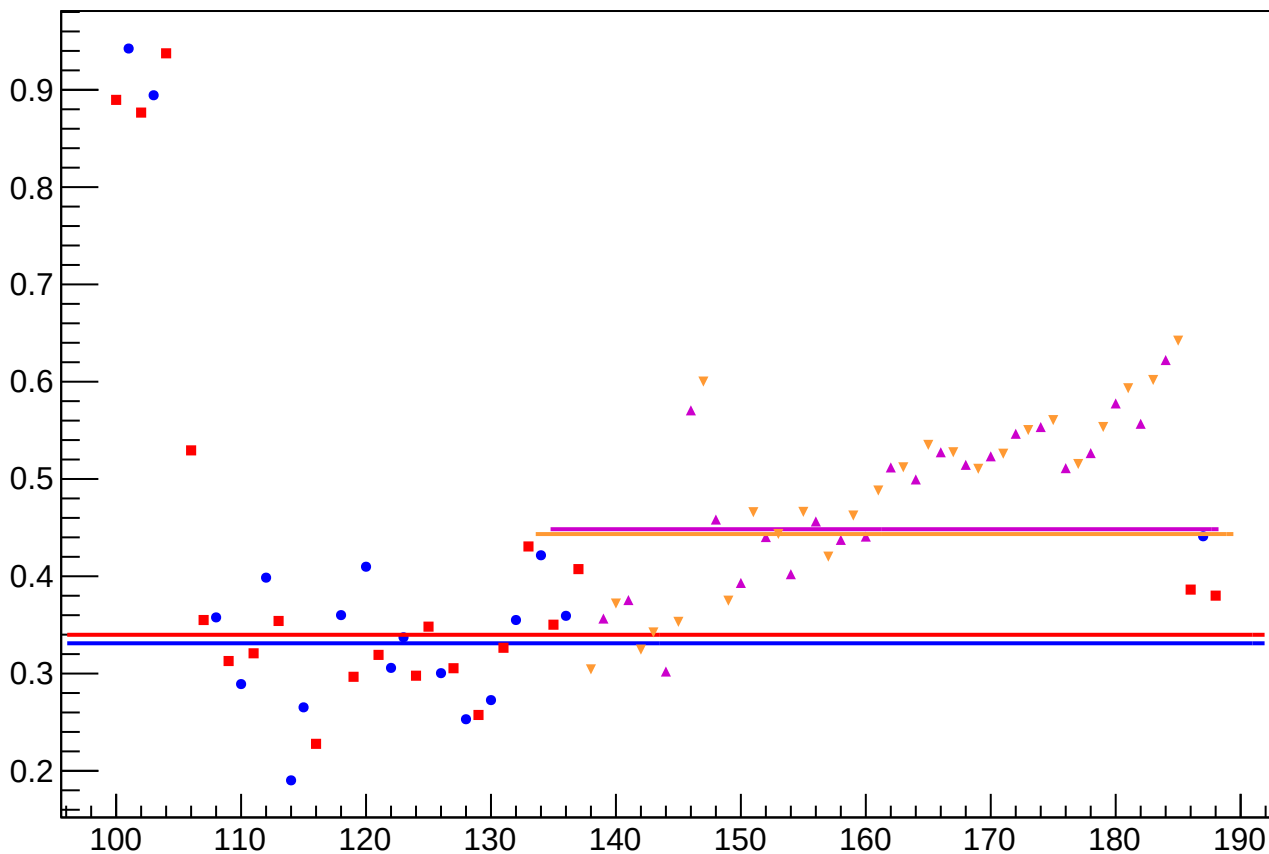
Right: 143.144 $\pm$ 0.000 χ^2/NDF : 10146585325.1/38

In: 145.676 $\pm$ 0.000 χ^2/NDF : 3926883759.8/40

Out: 145.230 $\pm$ 0.000 χ^2/NDF : 8028848921.9/45

All: 145.441 $\pm$ 0.000 χ^2/NDF : 11969677715.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.331 $\pm$ 0.000 χ^2 /NDF: 1288074.6/17

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.340 $\pm$ 0.000 χ^2 /NDF: 1213051.1/20

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

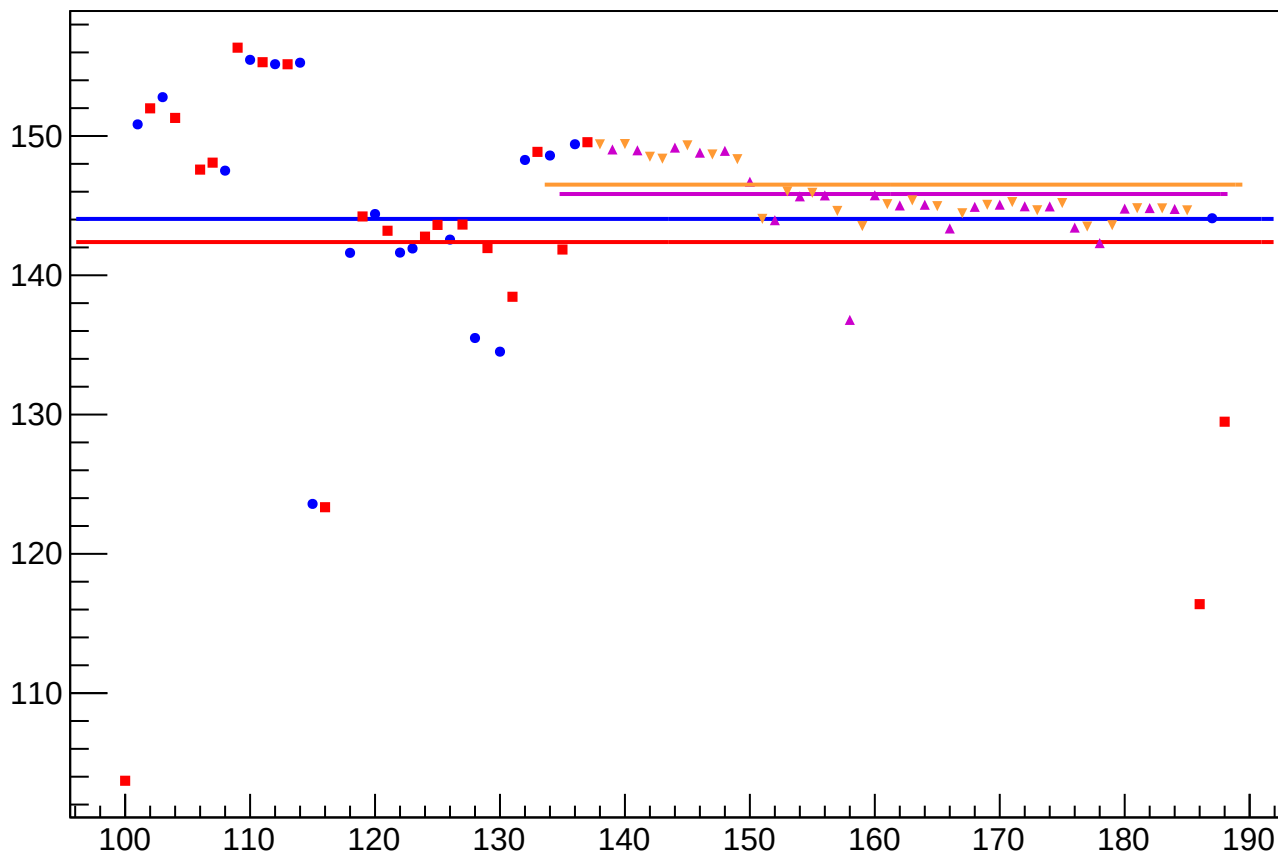
Right: 0.336 $\pm$ 0.000 χ^2 /NDF: 2505400.5/38

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3277495.4/40

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3460813.4/45

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6738823.1/86

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279469523.9/17

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 142.385 $\pm$ 0.000 χ^2 /NDF: 6880912659.2/20

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

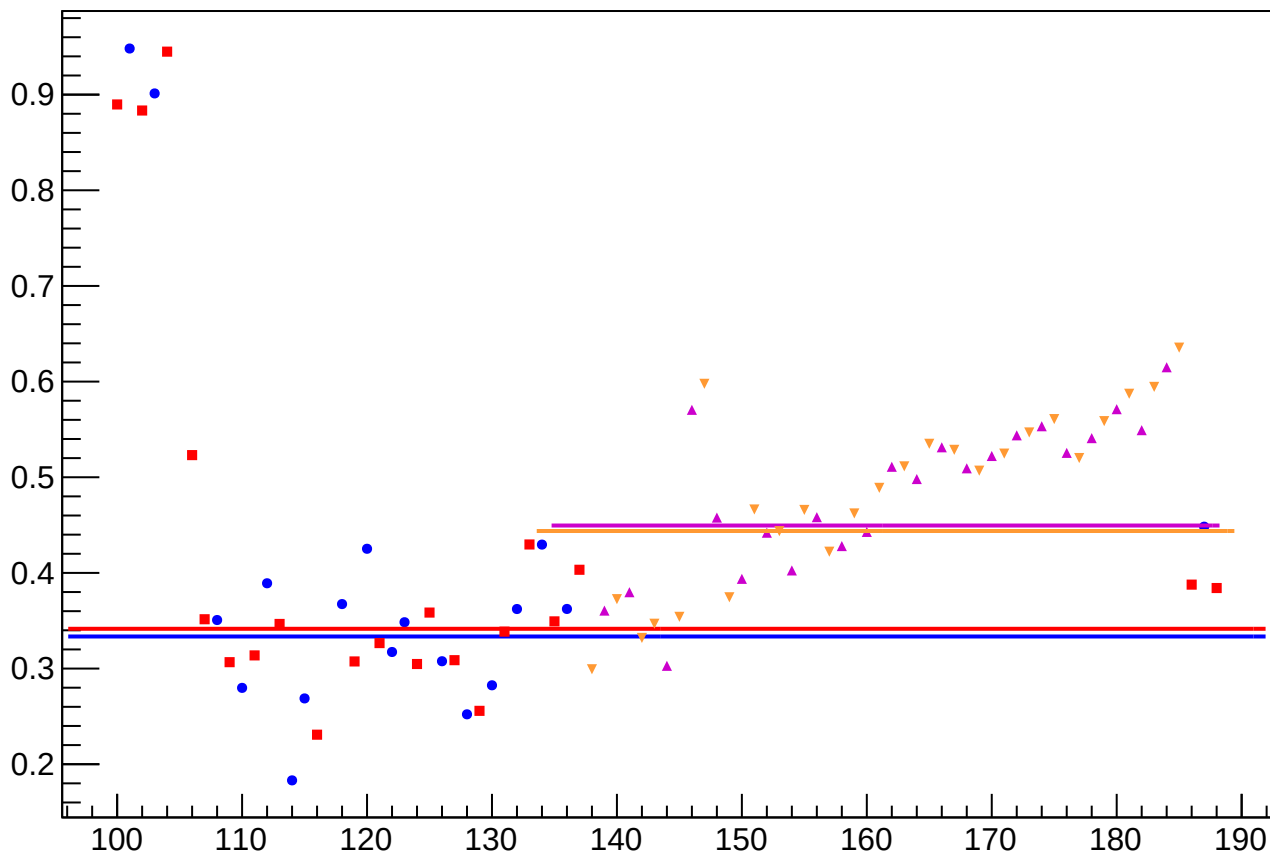
Right: 143.146 $\pm$ 0.000 χ^2 /NDF: 10236422008.3/38

In: 145.143 $\pm$ 0.000 χ^2 /NDF: 4069347159.9/40

Out: 144.820 $\pm$ 0.000 χ^2 /NDF: 7885861978.9/45

All: 144.973 $\pm$ 0.000 χ^2 /NDF: 11962428759.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.334 $\pm$ 0.000 χ^2 /NDF: 1306532.3/17

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.342 $\pm$ 0.000 χ^2 /NDF: 1204342.4/20

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

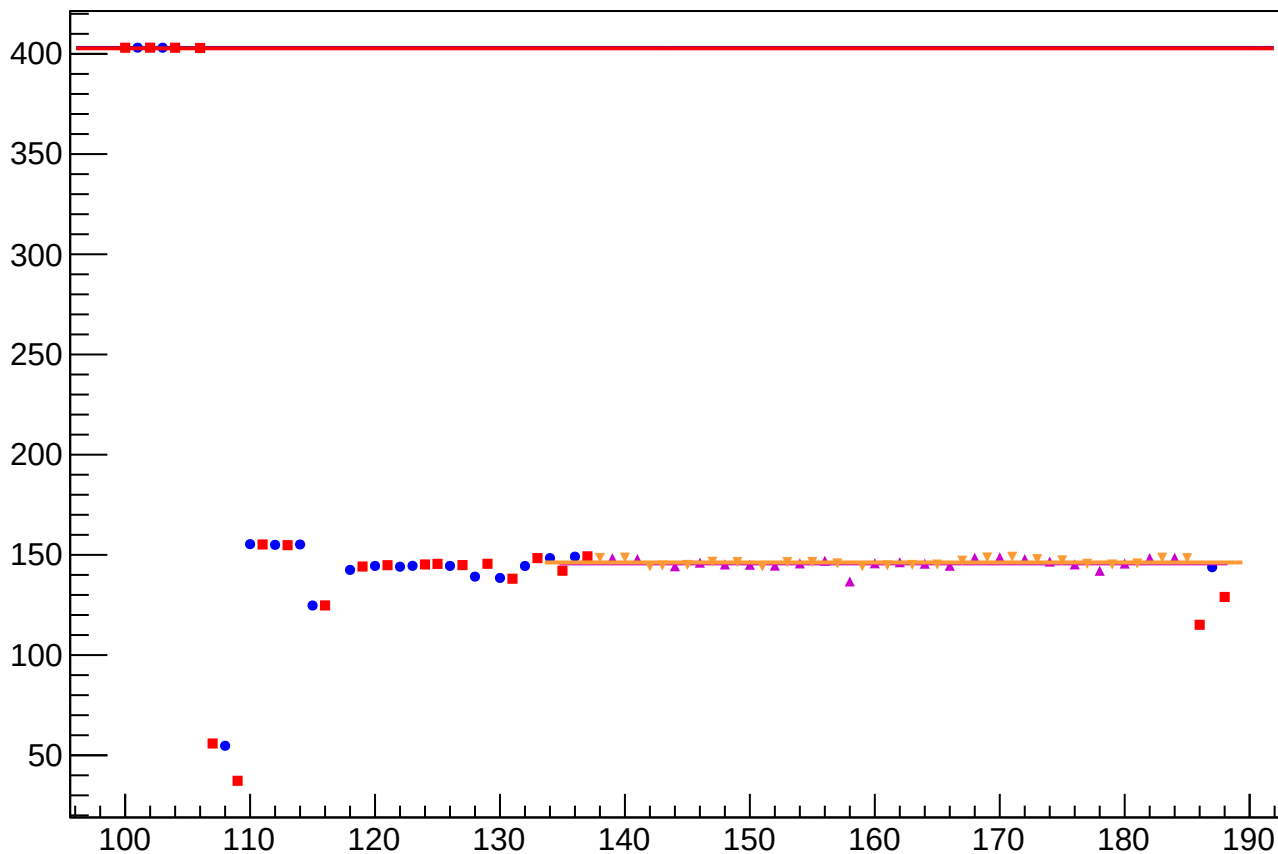
Right: 0.338 $\pm$ 0.000 χ^2 /NDF: 2514444.6/38

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3238644.4/40

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3406789.5/45

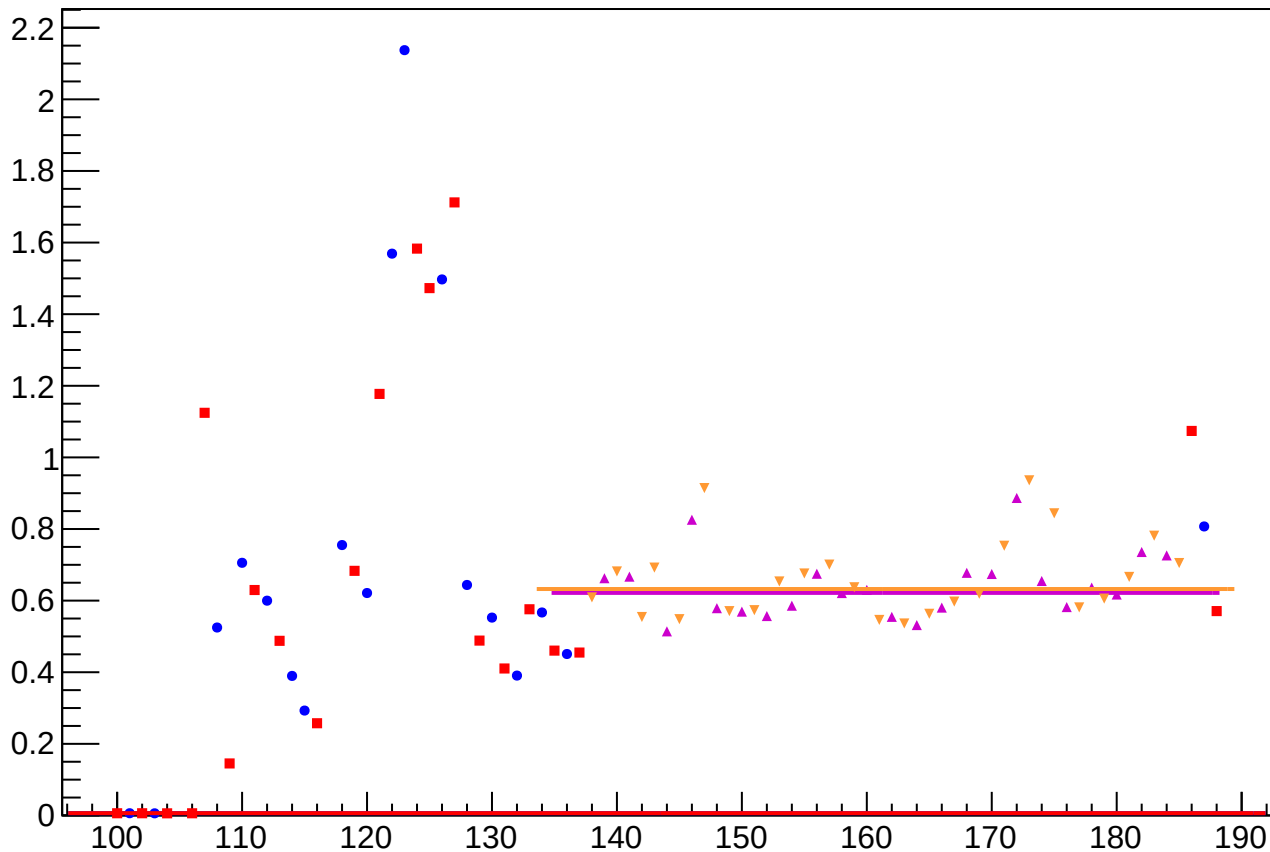
All: 0.403 $\pm$ 0.000 χ^2 /NDF: 6646459.2/86

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.956+/-0.000	χ^2/NDF : 1110327882789.6/17	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.861+/-0.000	χ^2/NDF : 4411303047426.3/17
Right Out: 402.778+/-0.000	χ^2/NDF : 3300455583484.2/20	In: 402.665+/-0.000	χ^2/NDF : 3442566778152.9/40
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.518+/-0.000	χ^2/NDF : 5658776277810.3/40
		All: 402.587+/-0.000	χ^2/NDF : 910169996892.0/17

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9363822.0/17

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 11264639.7/20

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

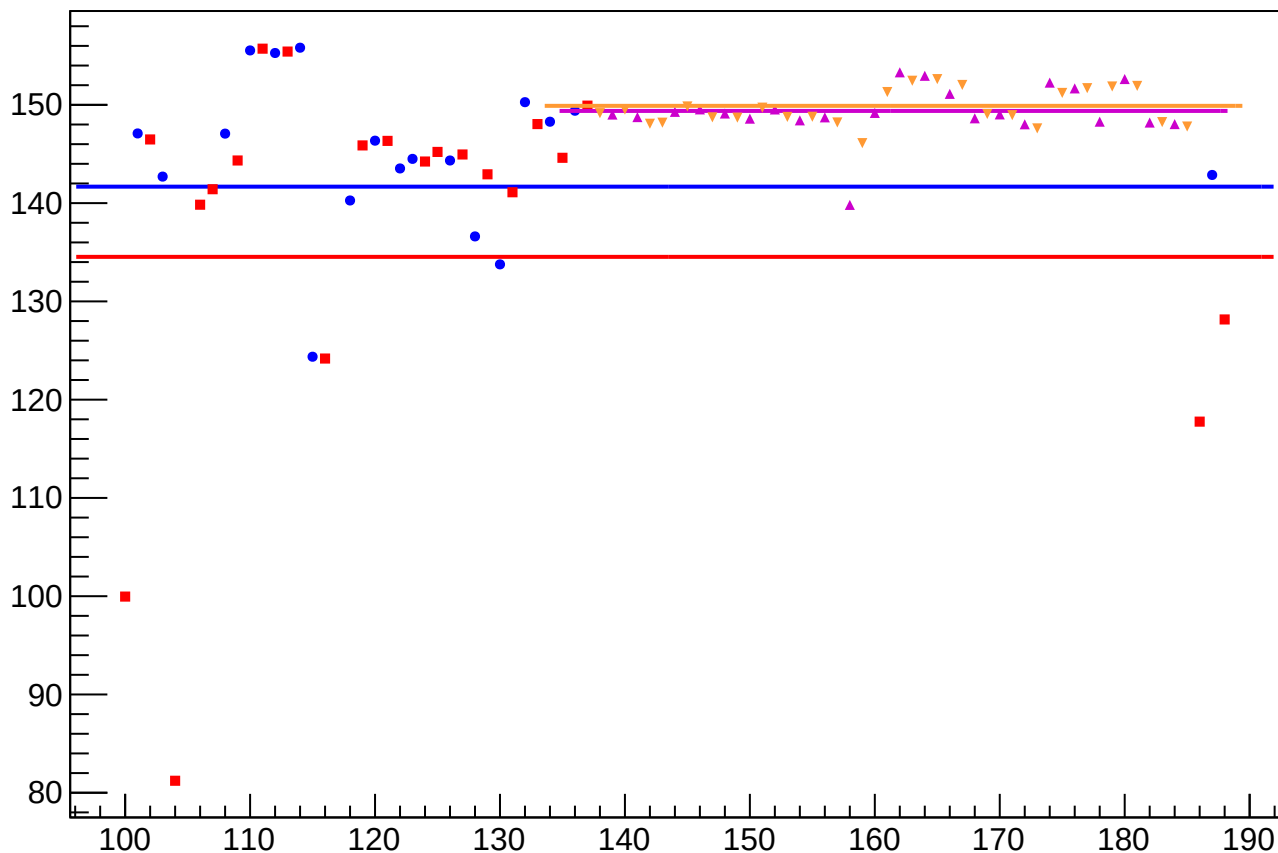
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 20628489.8/38

In: 0.007 $\pm$ 0.000 χ^2 /NDF:36453193.1/40

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:39960312.7/45

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 76413538.0/86

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.676 $\pm$ 0.000 χ^2 /NDF: 979298915.1/17

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 134.532 $\pm$ 0.000 χ^2 /NDF: 1725852668.1/20

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

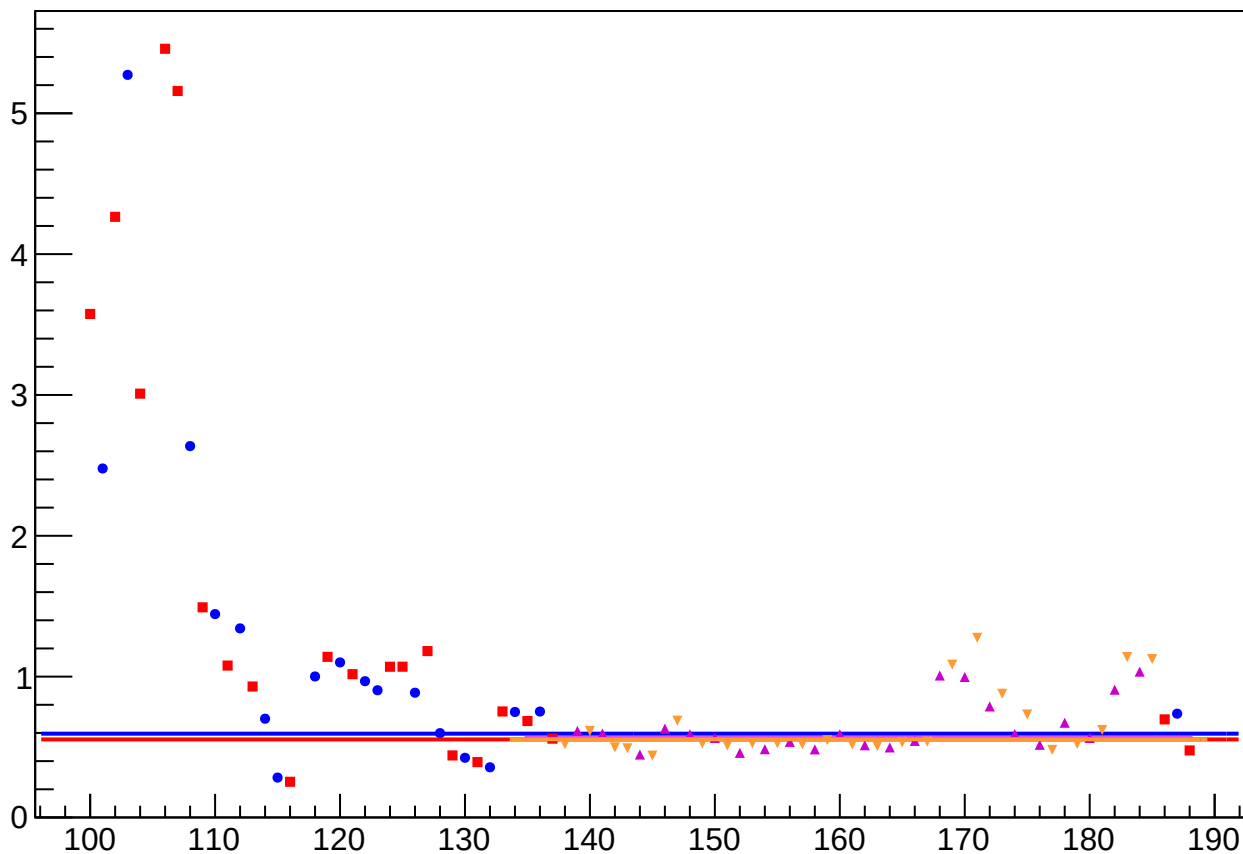
Right: 137.513 $\pm$ 0.000 χ^2 /NDF: 3012399345.5/38

In: 148.000 $\pm$ 0.000 χ^2 /NDF: 1917326328.0/40

Out: 146.497 $\pm$ 0.000 χ^2 /NDF: 4542122255.4/45

All: 147.202 $\pm$ 0.000 χ^2 /NDF: 6528504049.9

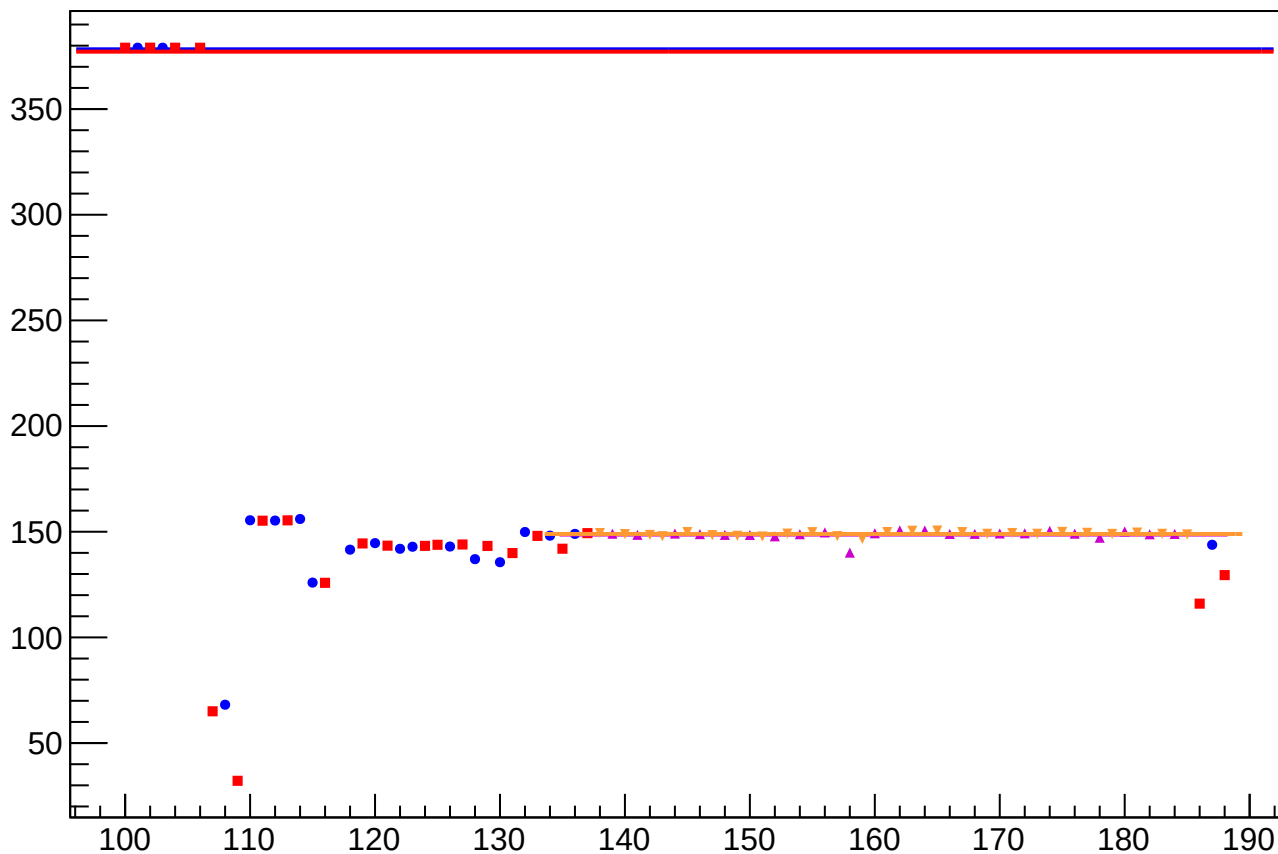
yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.595 $\pm$ 0.000 χ^2 /NDF: 3528332.0/17
 Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24
 Right Out: 0.554 $\pm$ 0.000 χ^2 /NDF: 4716585.3/20
 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: 0.571 $\pm$ 0.000 χ^2 /NDF: 8265098.4/38
 In: 0.568 $\pm$ 0.000 χ^2 /NDF:4852557.6/40
 Out: 0.555 $\pm$ 0.000 χ^2 /NDF:6490323.2/45
 All: 0.561 $\pm$ 0.000 χ^2 /NDF: 11352528.7/86

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.277 $\pm$ 0.000

χ^2/NDF : 2525418143225.7/17

Left: 148.814 $\pm$ 0.000

χ^2/NDF : 319467494.9/47

Left Out: 148.944 $\pm$ 0.000

χ^2/NDF : 63976941.3/24

Right: 377.691 $\pm$ 0.000

χ^2/NDF : 11239742799794.0

Right Out: 377.178 $\pm$ 0.000

χ^2/NDF : 8705750922454.0/20

In: 377.104 $\pm$ 0.000

χ^2/NDF : 6112981348729.9/40

Out: 376.061 $\pm$ 0.000

χ^2/NDF : 12578057281076.4

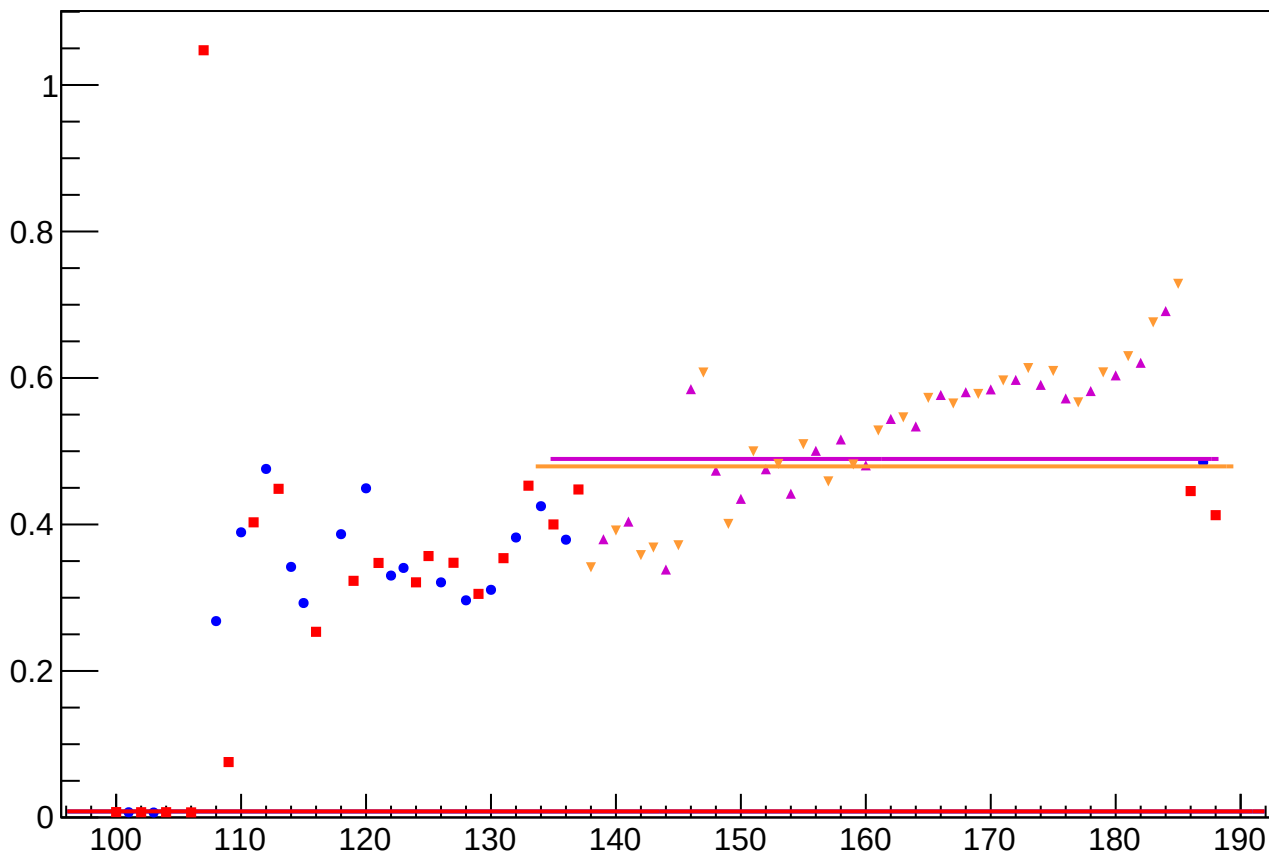
Left In: 148.672 $\pm$ 0.000

χ^2/NDF : 252846428.3/22

All: 376.548 $\pm$ 0.000

χ^2/NDF : 186987954803

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 10114218.8/17

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 11810799.1/20

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

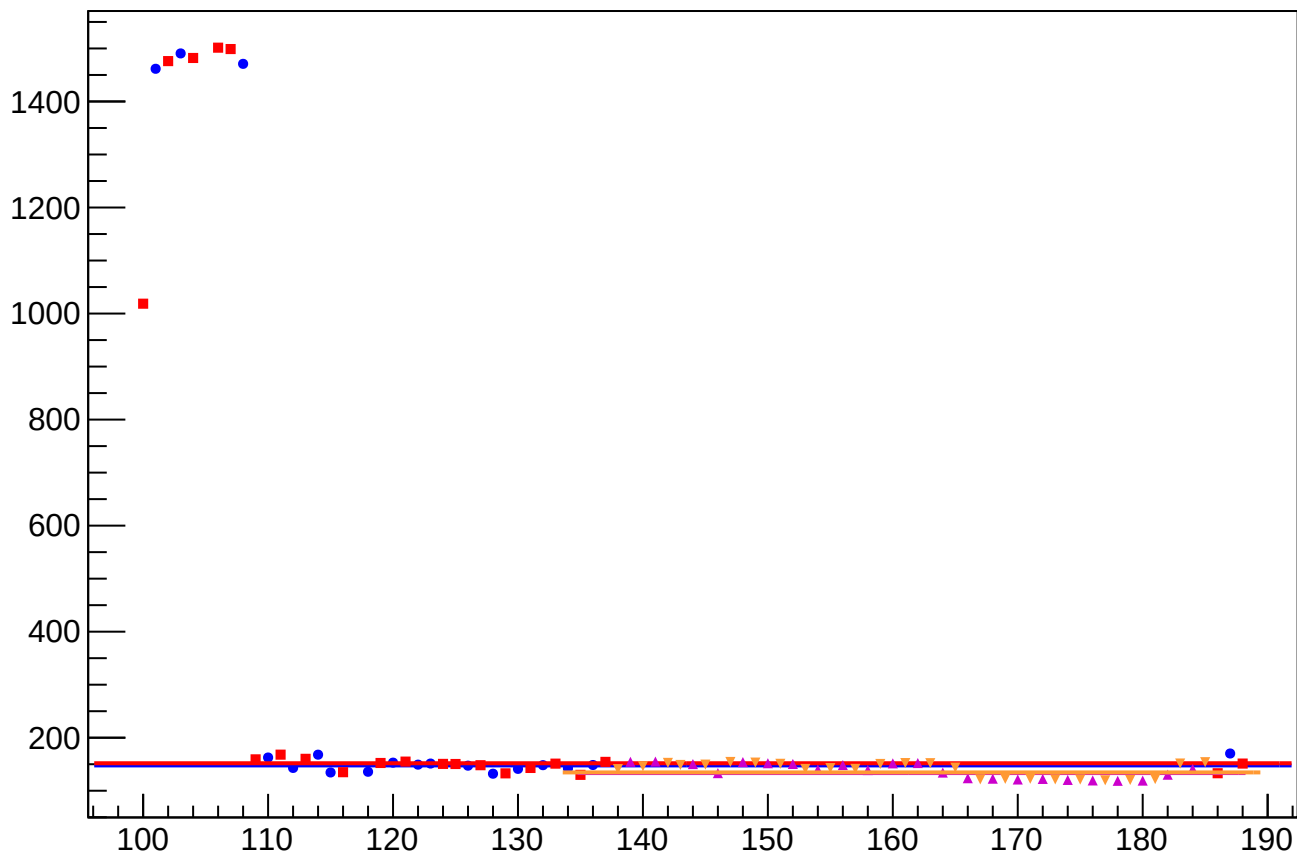
Right: 0.008+/-0.000 χ^2/NDF : 21925509.9/38

In: 0.011+/-0.000 χ^2/NDF :42719586.7/40

Out: 0.011+/-0.000 χ^2/NDF :46305916.5/45

All: 0.011+/-0.000 χ^2/NDF : 89025517.5/86

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 147.767 $\pm$ 0.000 χ^2 /NDF: 24468065806.1/17

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 151.840 $\pm$ 0.000 χ^2 /NDF: 33960098357.9/20

Left In: 133.337 $\pm$ 0.000 χ^2 /NDF: 4303812119.2/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8697951676.8/47

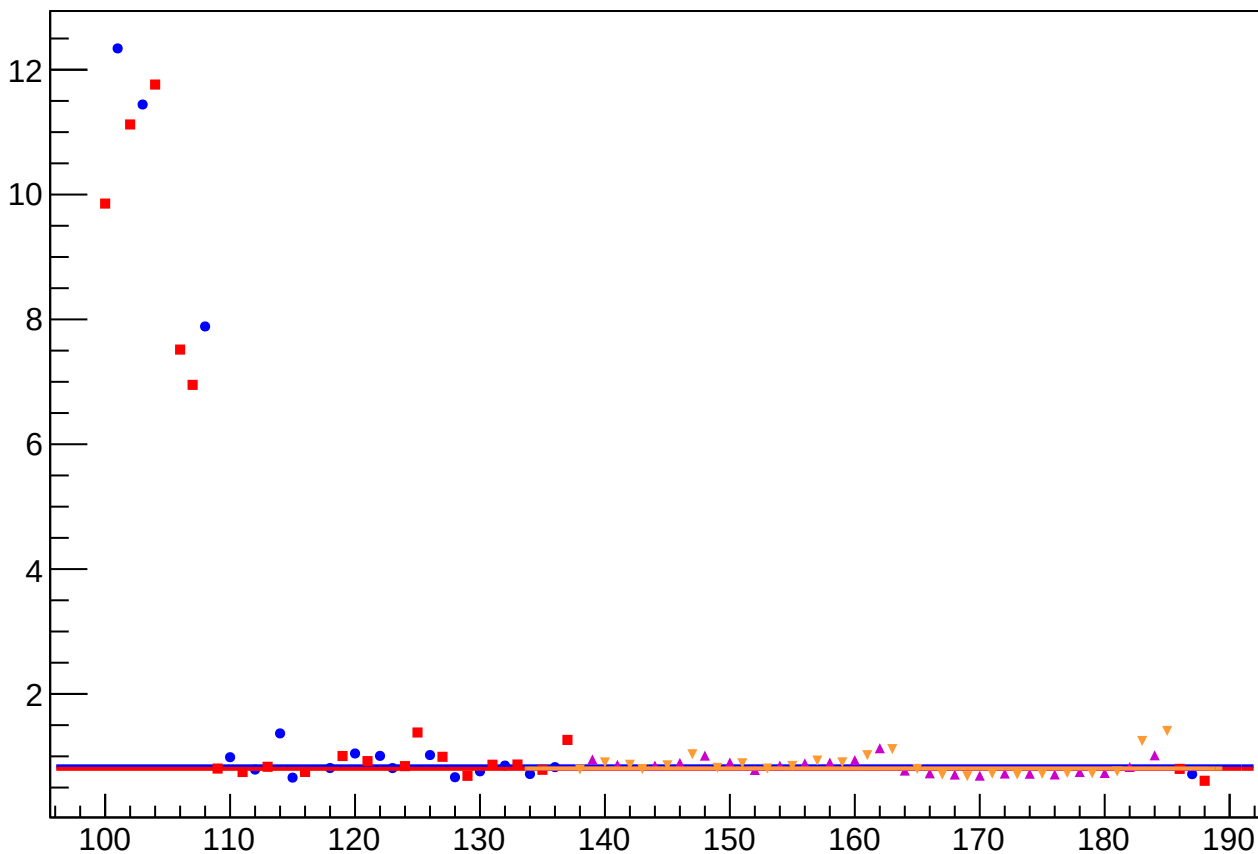
Right: 150.150 $\pm$ 0.000 χ^2 /NDF: 58482132278.4/38

In: 136.172 $\pm$ 0.000 χ^2 /NDF: 29702074626.6/40

Out: 138.848 $\pm$ 0.000 χ^2 /NDF: 40097228233.2/45

All: 137.583 $\pm$ 0.000 χ^2 /NDF: 69906100484.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.840+/-0.000 χ^2/NDF : 2666350.7/17

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.800+/-0.000 χ^2/NDF : 3041970.5/20

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

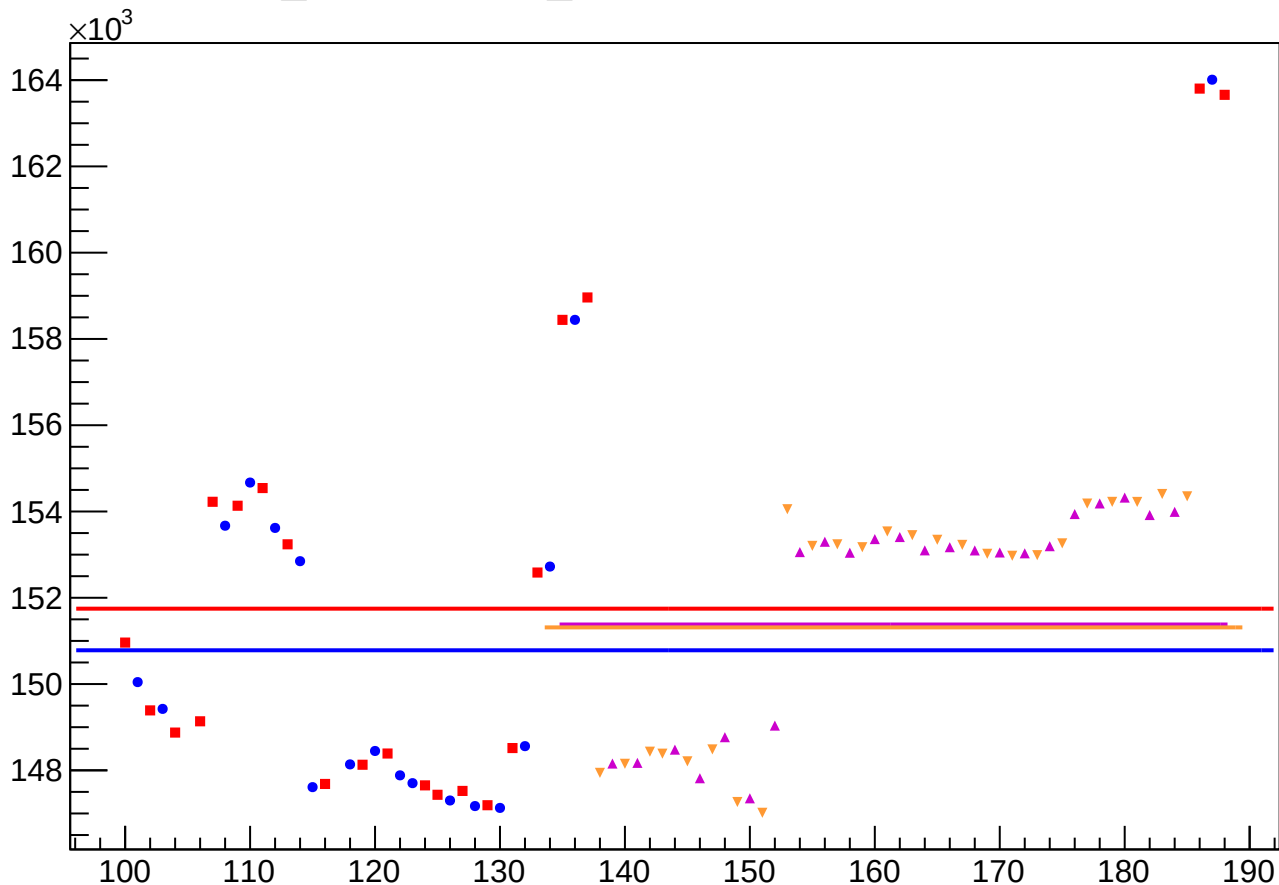
Right: 0.817+/-0.000 χ^2/NDF : 5718739.7/38

In: 0.812+/-0.000 χ^2/NDF : 3158039.8/40

Out: 0.805+/-0.000 χ^2/NDF : 3732972.7/45

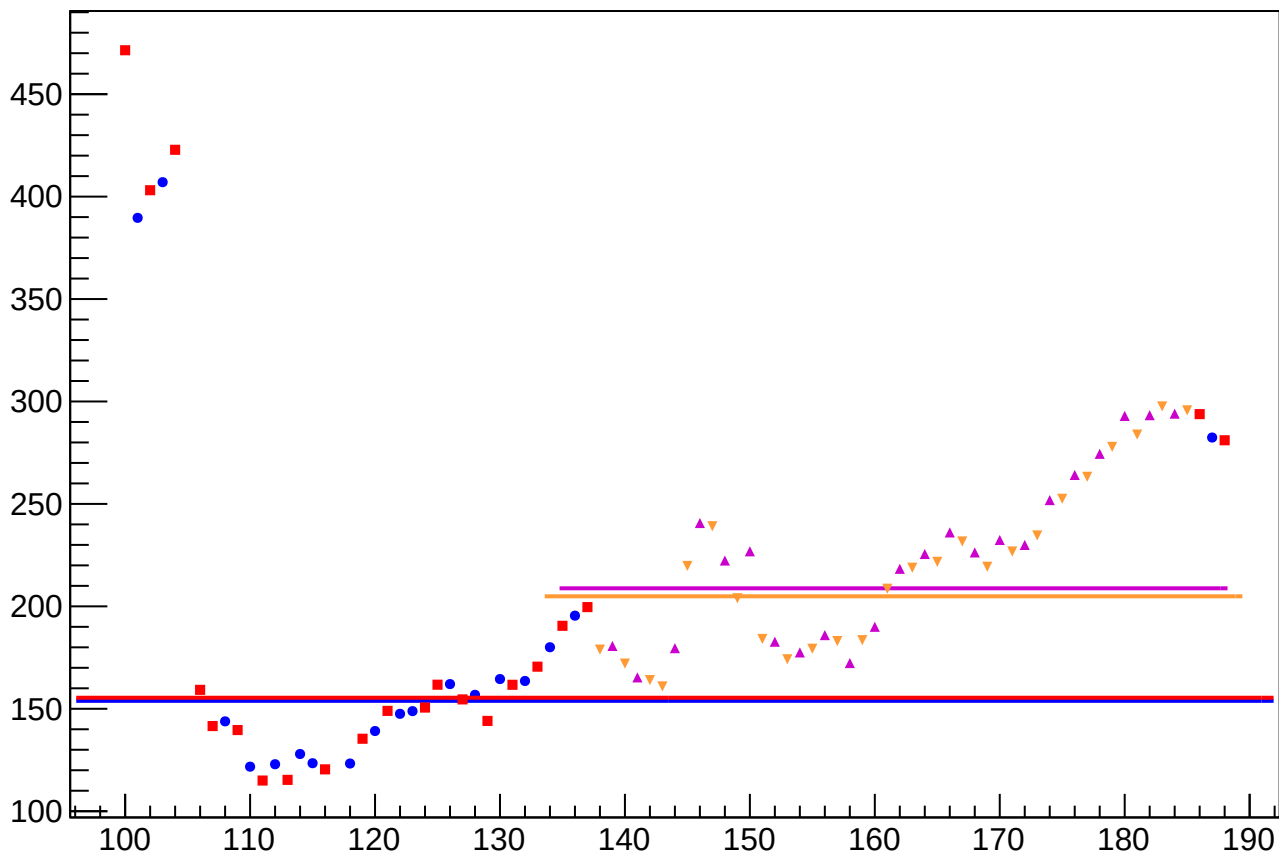
All: 0.808+/-0.000 χ^2/NDF : 6892513.0/86

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150782.780 $\pm$ 0.063	χ^2 /NDF: 3632312138.3/17	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 151302.766 $\pm$ 0.043	χ^2 /NDF: 9395713401.8/4
Right Out: 151747.421 $\pm$ 0.058	χ^2 /NDF: 5636451997.0/20	In: 151142.006 $\pm$ 0.040	χ^2 /NDF: 6050526212.2/40
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 151492.269 $\pm$ 0.037	χ^2 /NDF: 8823004626.5/4
		All: 151327.905 $\pm$ 0.027	χ^2 /NDF: 149148596

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 153.882 $\pm$ 0.044 χ^2 /NDF: 1217246.3/17

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 155.397 $\pm$ 0.041 χ^2 /NDF: 1737367.2/20

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

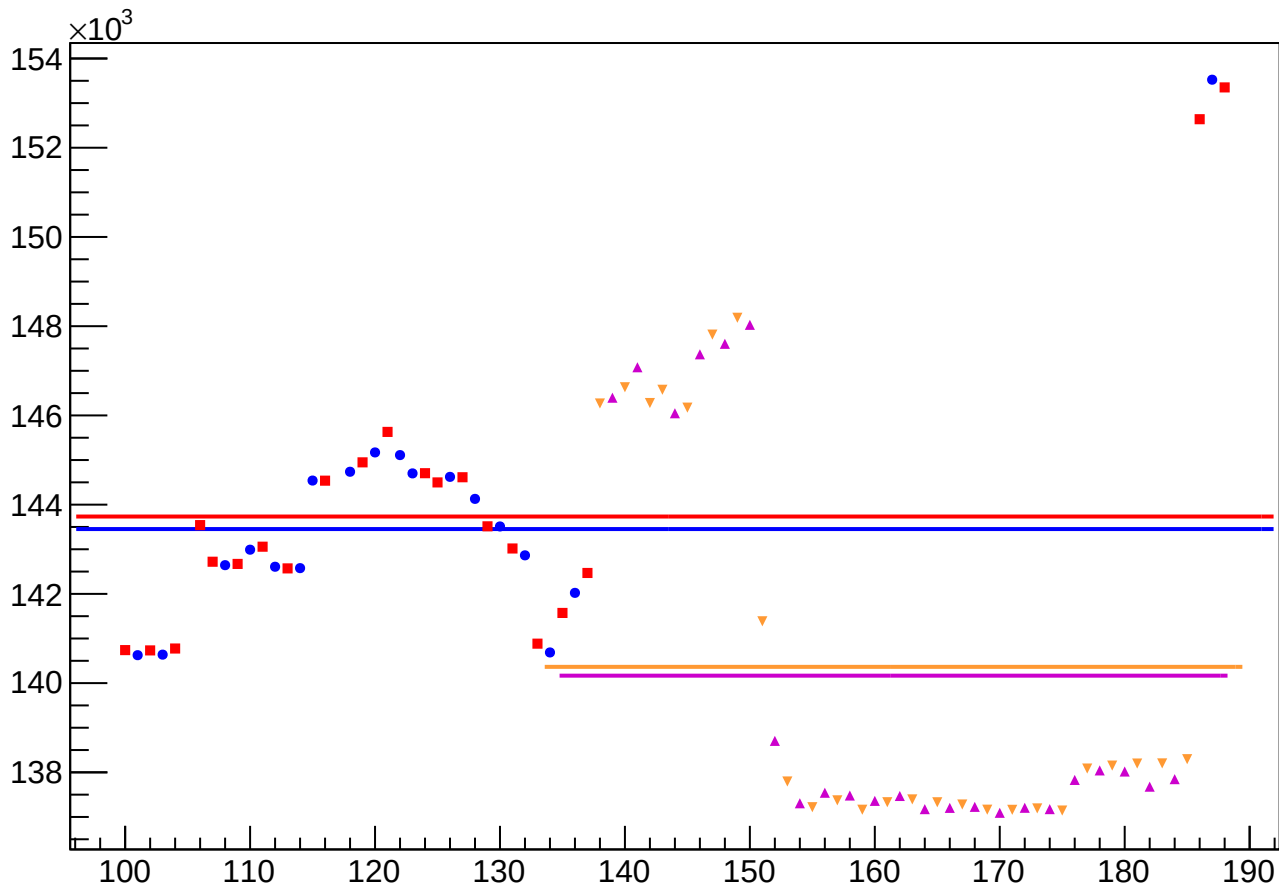
Right: 154.699 $\pm$ 0.030 χ^2 /NDF: 2955239.3/38

In: 186.910 $\pm$ 0.028 χ^2 /NDF:3137484.4/40

Out: 184.491 $\pm$ 0.026 χ^2 /NDF:3646258.7/45

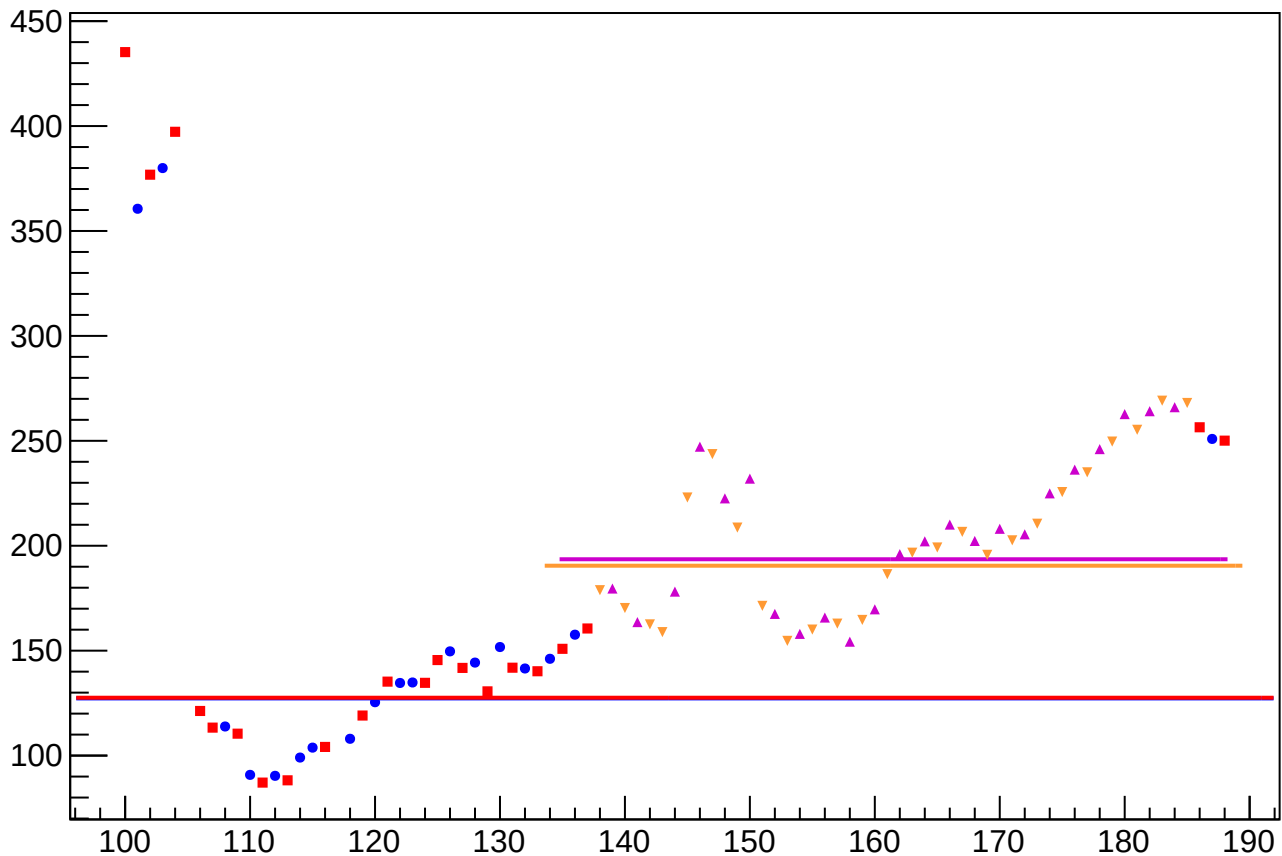
All: 185.626 $\pm$ 0.019 χ^2 /NDF: 6787685.1/86

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143452.963 $\pm$ 0.053	χ^2 /NDF: 764760007.2/17	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: 143606.336 $\pm$ 0.035	χ^2 /NDF: 3228891533.0
Right Out: 143733.853 $\pm$ 0.048	χ^2 /NDF: 2448571513.9/20	In: 141640.679 $\pm$ 0.035	χ^2 /NDF: 10944106637.2/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 141949.433 $\pm$ 0.033	χ^2 /NDF: 13737551506.0
		All: 141805.606 $\pm$ 0.024	χ^2 /NDF: 247226674

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 127.252+/-0.037 χ^2/NDF : 1515784.1/17

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 127.571+/-0.034 χ^2/NDF : 2100950.9/20

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

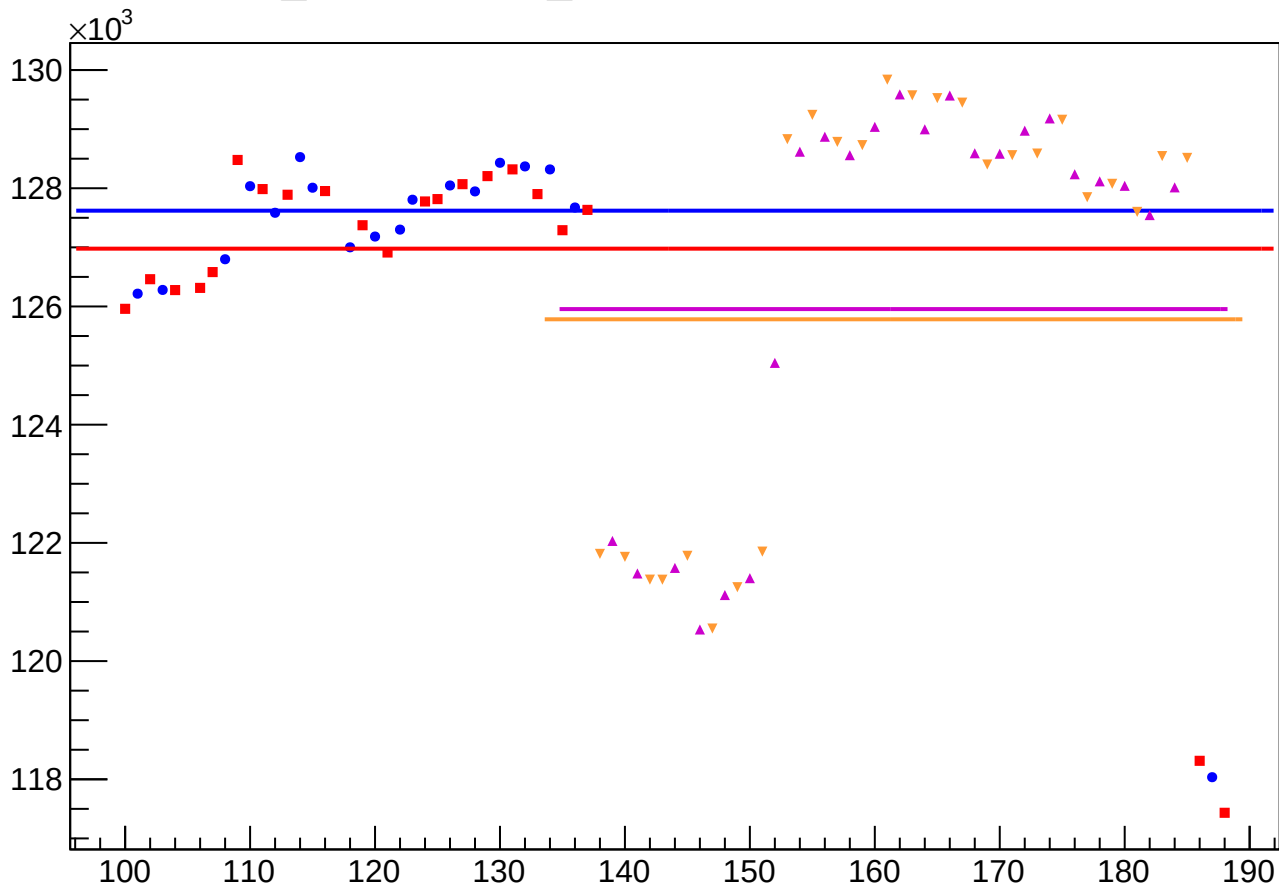
Right: 127.426+/-0.025 χ^2/NDF : 3616775.2/38

In: 163.821+/-0.025 χ^2/NDF : 4231022.2/40

Out: 160.890+/-0.023 χ^2/NDF : 4872501.7/45

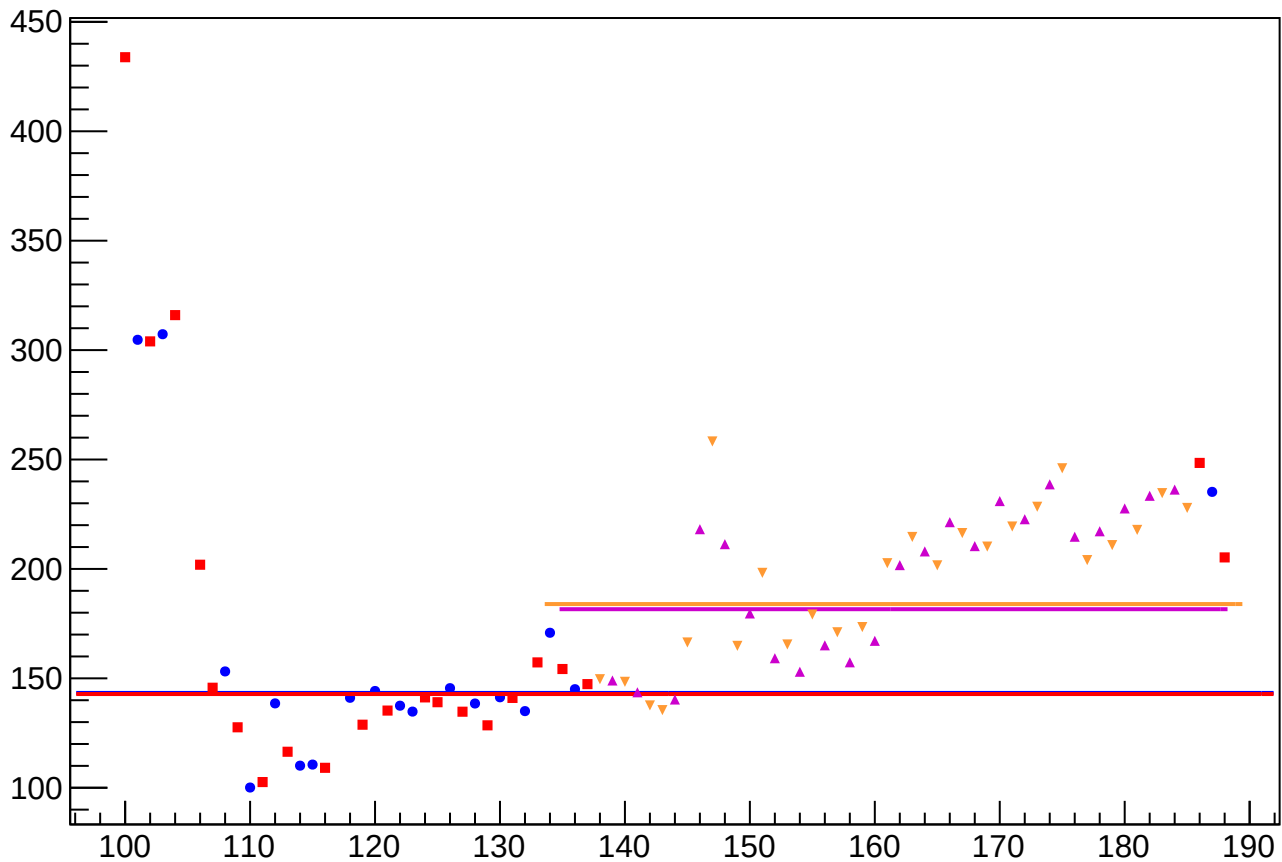
All: 162.256+/-0.017 χ^2/NDF : 9110912.7/86

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127620.559 $\pm$ 0.058	χ^2/NDF : 337524570.6/17	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 127267.741 $\pm$ 0.039	χ^2/NDF : 3052068259.2/24
Right Out: 126977.959 $\pm$ 0.052	χ^2/NDF : 2646967251.7/20	In: 126578.922 $\pm$ 0.035	χ^2/NDF : 6658522557.2/40
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 126276.008 $\pm$ 0.034	χ^2/NDF : 9681187425.3/40
		All: 126419.948 $\pm$ 0.024	χ^2/NDF : 163780505.0/100

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 143.329+/-0.041 χ^2/NDF : 880315.2/17

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 142.824+/-0.037 χ^2/NDF : 1277059.1/20

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

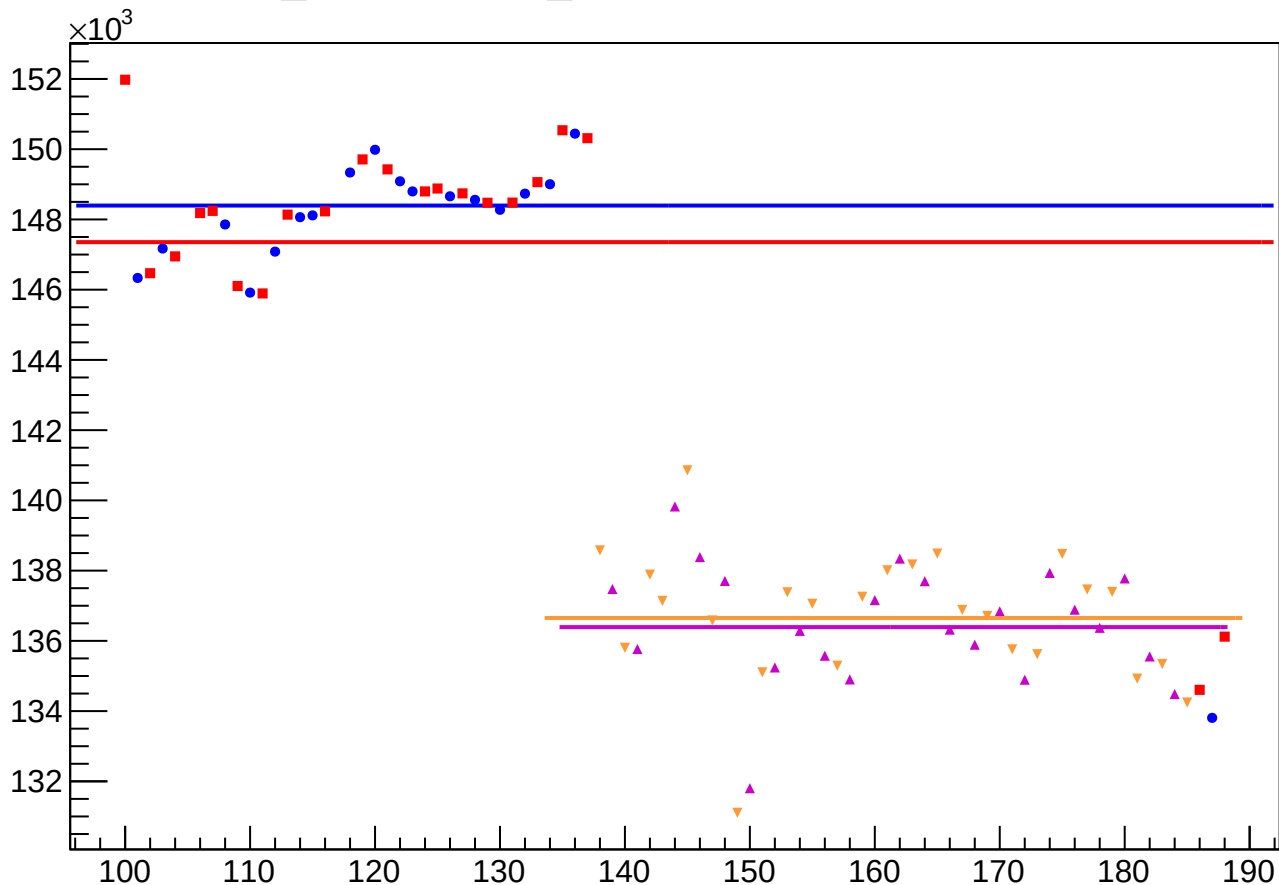
Right: 143.052+/-0.028 χ^2/NDF : 2157458.0/38

In: 167.270+/-0.025 χ^2/NDF : 2529963.9/40

Out: 166.976+/-0.024 χ^2/NDF : 3121110.4/45

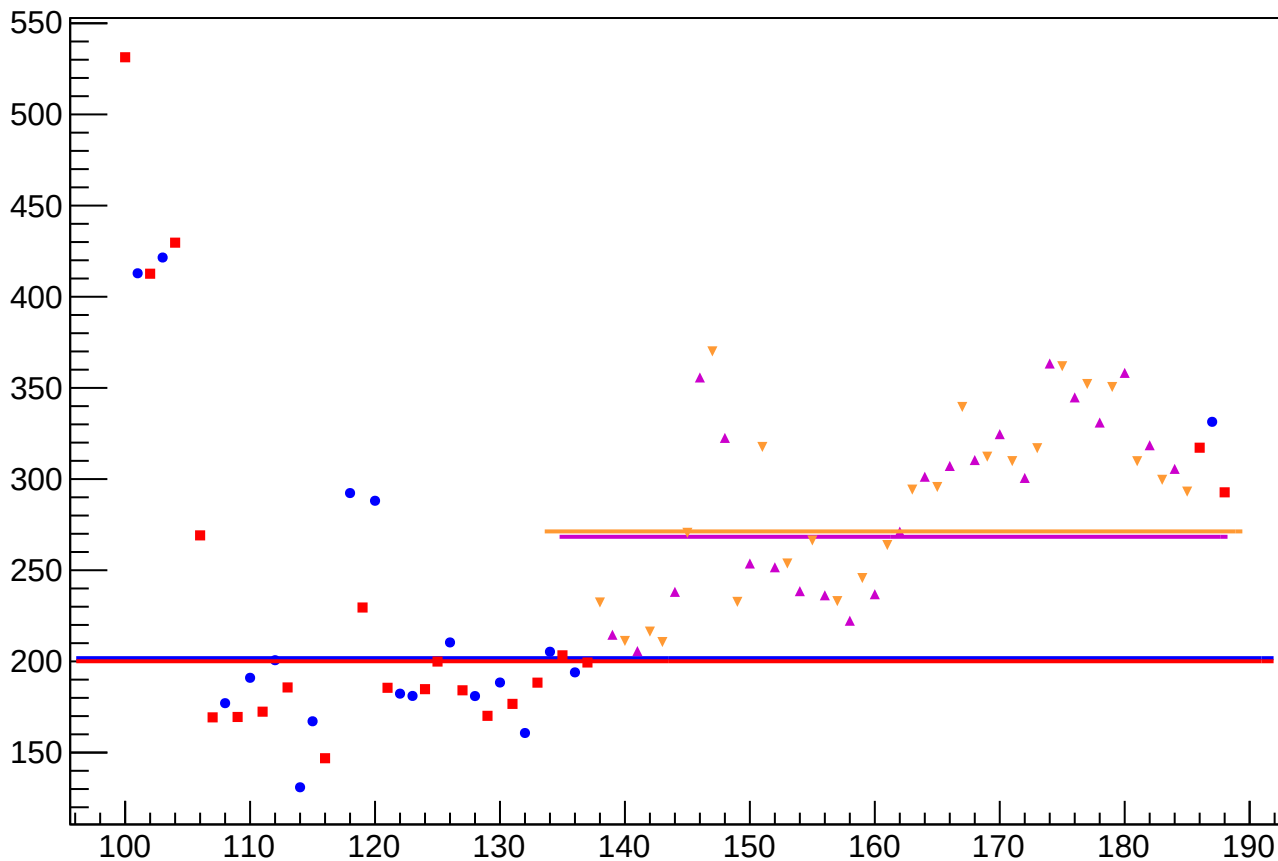
All: 167.116+/-0.017 χ^2/NDF : 5651146.8/86

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148394.980 $\pm$ 0.082	χ^2 /NDF: 503074087.5/17	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: 147818.561 $\pm$ 0.055	χ^2 /NDF: 2921254141.6/4
Right Out: 147354.000 $\pm$ 0.074	χ^2 /NDF: 2328707177.3/20	In: 141115.620 $\pm$ 0.051	χ^2 /NDF: 14233318849.9/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141316.329 $\pm$ 0.049	χ^2 /NDF: 15215300989.3/4
		All: 141221.663 $\pm$ 0.035	χ^2 /NDF: 294566841.4/22

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 201.782+/-0.058 χ^2/NDF : 981737.8/17

Left Out: 271.295+/-0.046 χ^2/NDF : 1064485.7/24

Right Out: 200.085+/-0.052 χ^2/NDF : 1143349.9/20

Left In: 268.344+/-0.047 χ^2/NDF : 1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

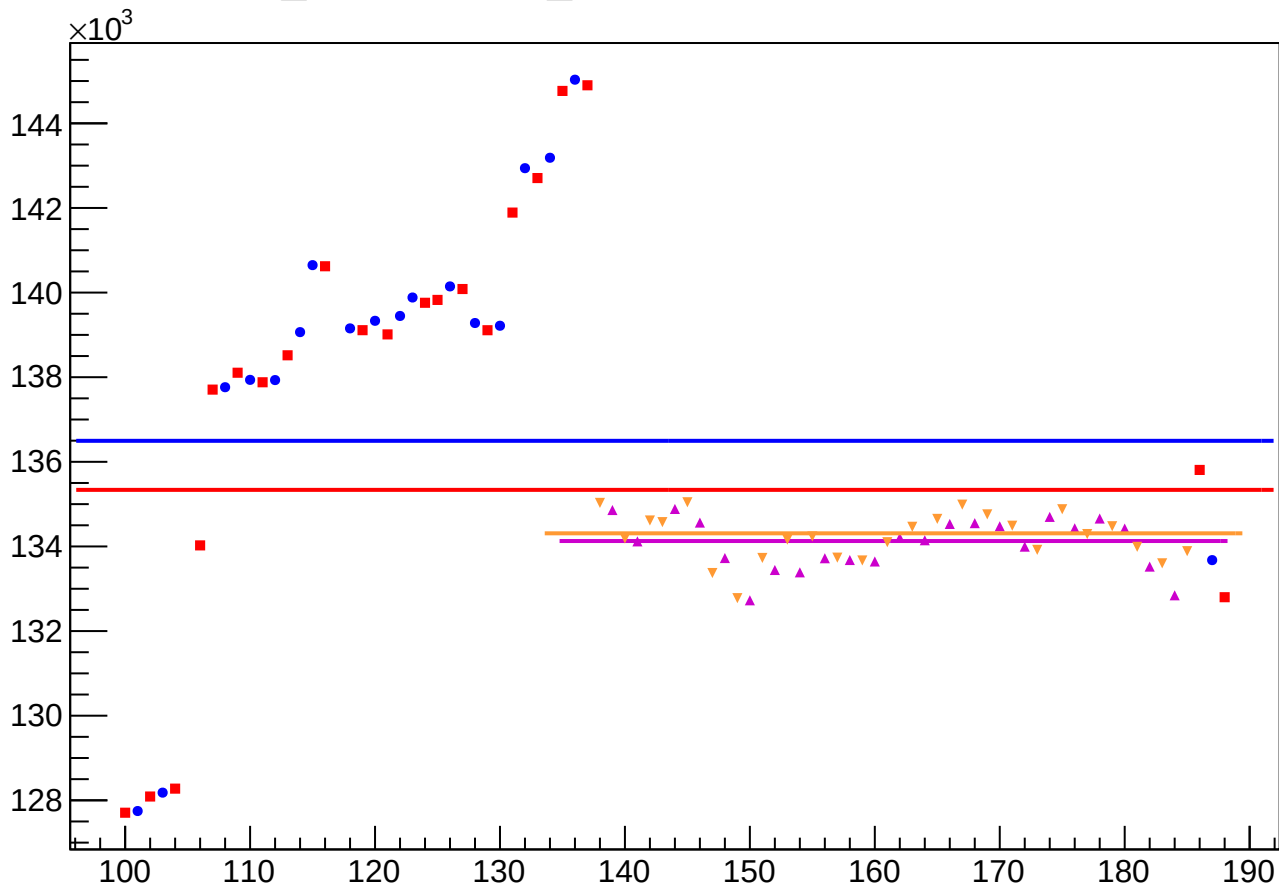
Right: 200.842+/-0.039 χ^2/NDF : 2125563.5/38

In: 242.150+/-0.036 χ^2/NDF : 2860403.0/40

Out: 240.255+/-0.034 χ^2/NDF : 3266319.9/45

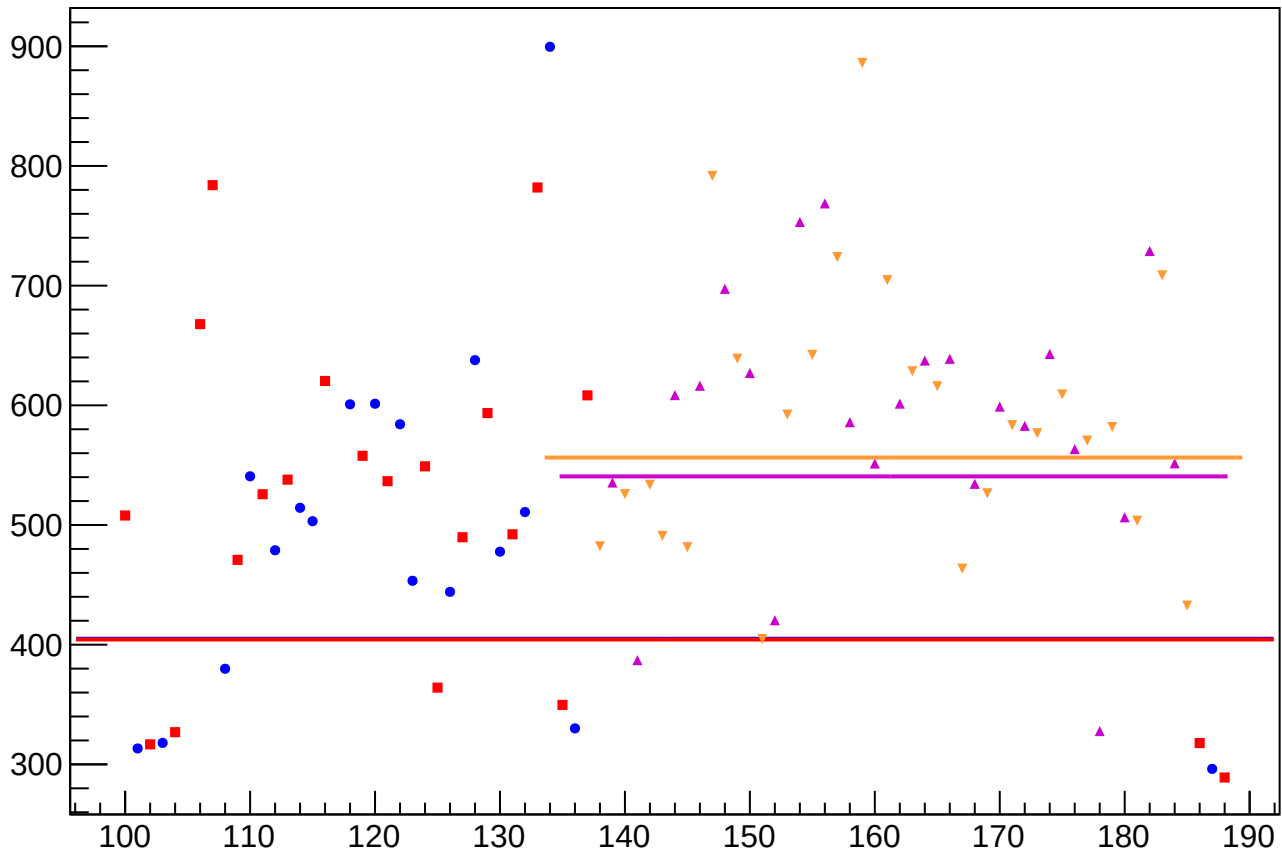
All: 241.149+/-0.025 χ^2/NDF : 6128160.3/86

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136496.352 $\pm$ 0.169	χ^2 /NDF: 1502959714.0/17	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: 135873.833 $\pm$ 0.115	χ^2 /NDF: 2673094392.6/4
Right Out: 135337.231 $\pm$ 0.157	χ^2 /NDF: 1144834796.6/20	In: 135108.910 $\pm$ 0.109	χ^2 /NDF: 1633697127.3/40
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134760.564 $\pm$ 0.104	χ^2 /NDF: 1184442787.6/4
		All: 134926.784 $\pm$ 0.075	χ^2 /NDF: 282351123

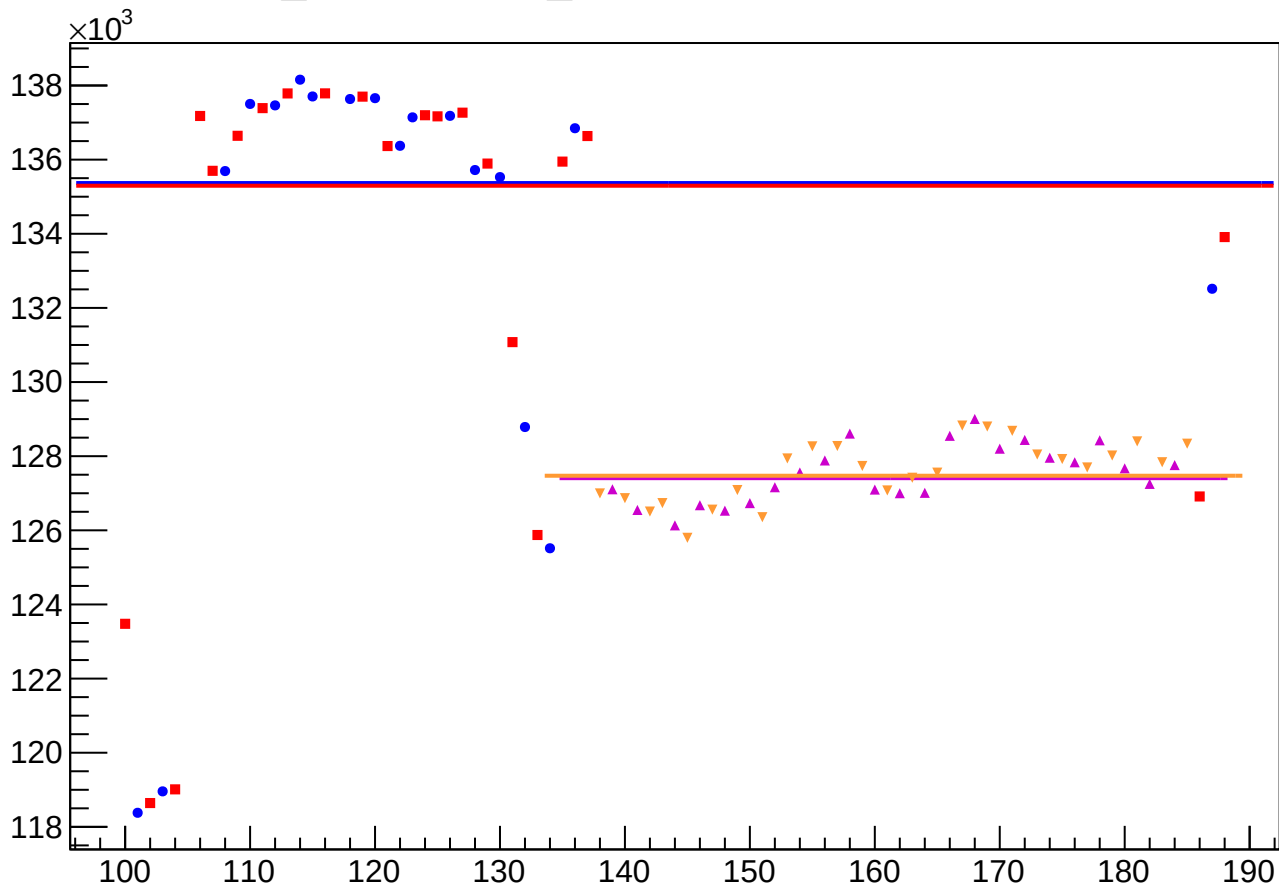
yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 404.959 $\pm$ 0.119 χ^2 /NDF: 859062.5/17
 Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24
 Right Out: 404.331 $\pm$ 0.111 χ^2 /NDF: 1261524.6/20
 Left In: 540.607 $\pm$ 0.100 χ^2 /NDF:1409015.2/22

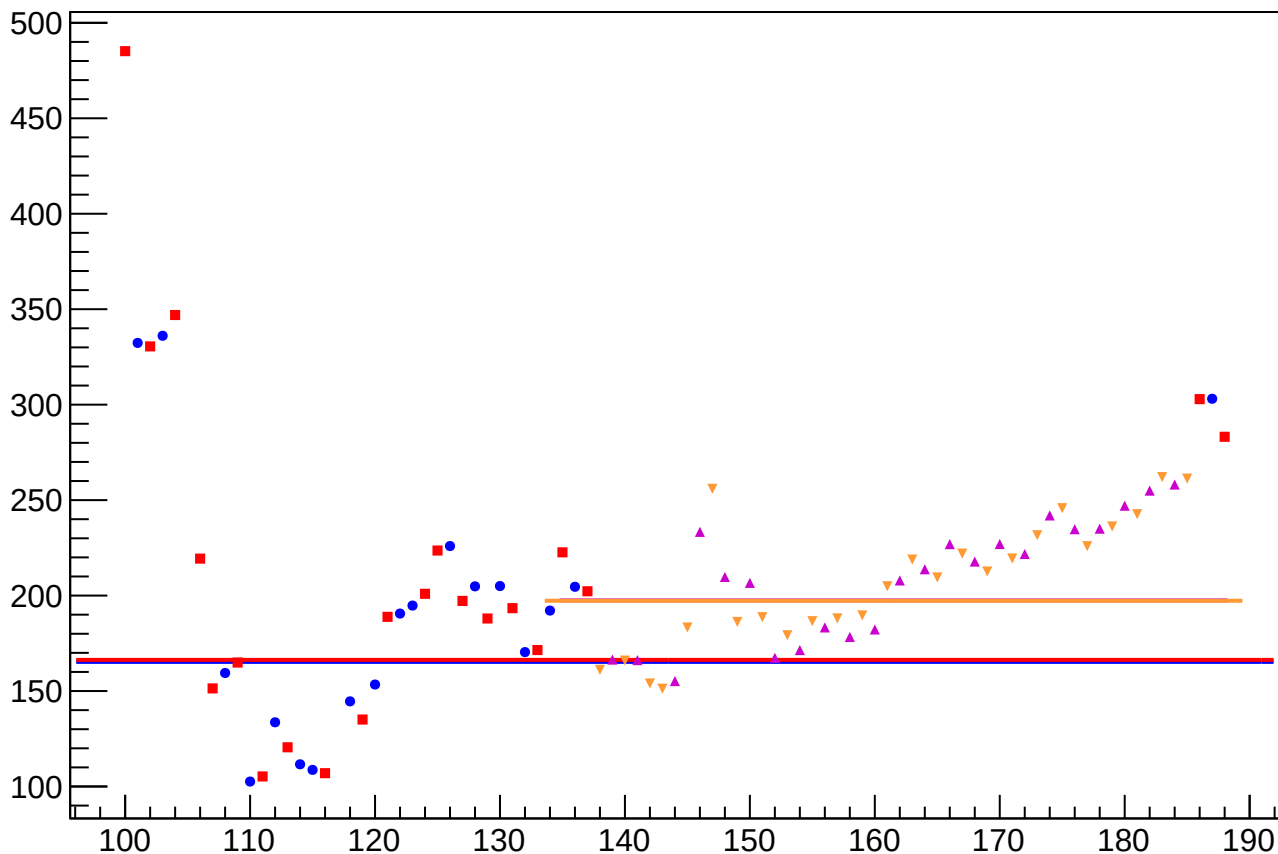
Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47
 Right: 404.622 $\pm$ 0.081 χ^2 /NDF: 2120602.0/38
 In: 484.431 $\pm$ 0.077 χ^2 /NDF:3024029.1/40
 Out: 489.710 $\pm$ 0.073 χ^2 /NDF:3319688.2/45
 All: 487.191 $\pm$ 0.053 χ^2 /NDF: 6346184.6/86

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135368.176 $\pm$ 0.068	χ^2 /NDF: 4591195704.4/17	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/4
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135329.076 $\pm$ 0.046	χ^2 /NDF: 9642883920.1/4
Right Out: 135296.142 $\pm$ 0.063	χ^2 /NDF: 5051080926.4/20	In: 130075.926 $\pm$ 0.039	χ^2 /NDF: 13945648846.4/4
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130287.452 $\pm$ 0.037	χ^2 /NDF: 15385791002.9/4
		All: 130187.024 $\pm$ 0.027	χ^2 /NDF: 293465538.0/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 165.278 $\pm$ 0.048 χ^2 /NDF: 1288892.4/17

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 166.321 $\pm$ 0.044 χ^2 /NDF: 1849397.5/20

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

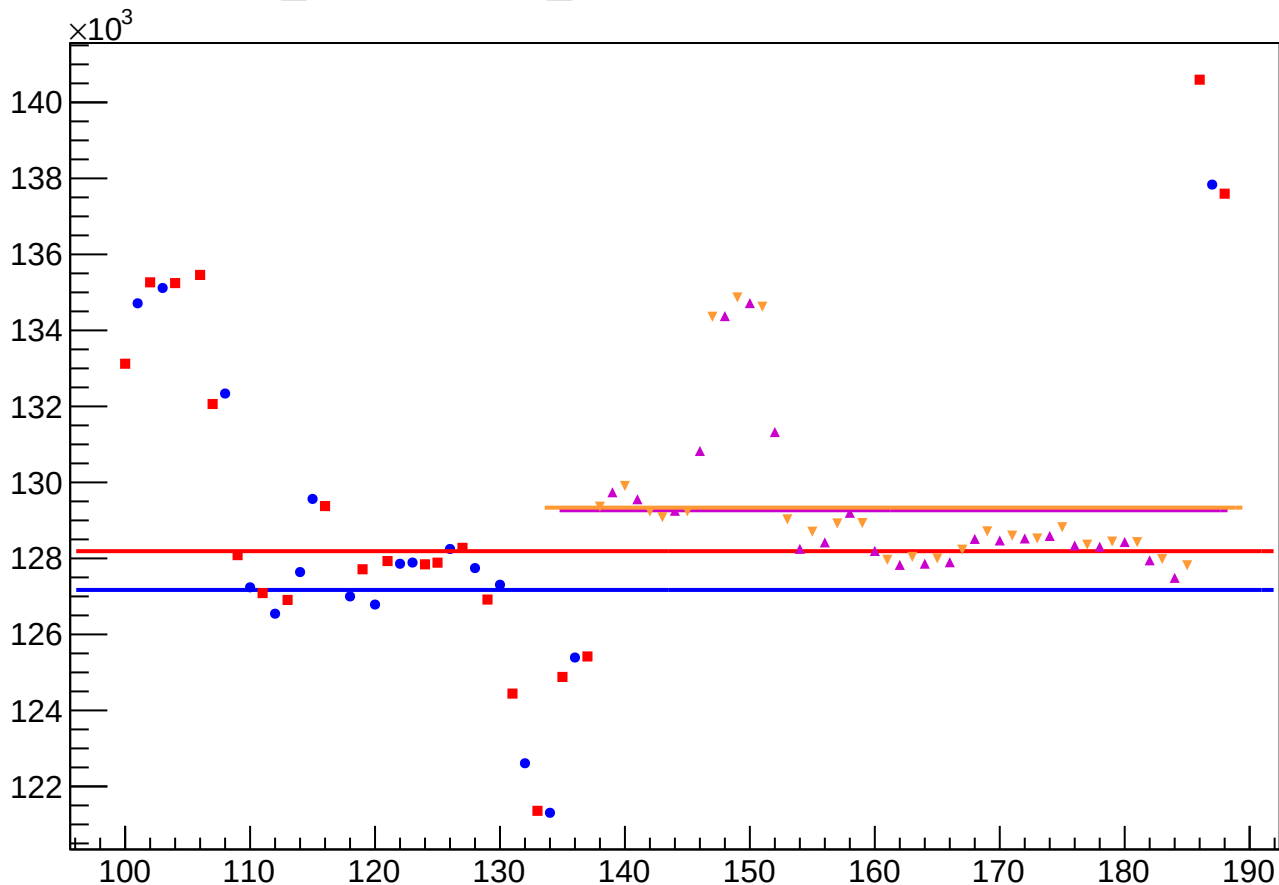
Right: 165.844 $\pm$ 0.033 χ^2 /NDF: 3138544.6/38

In: 186.678 $\pm$ 0.028 χ^2 /NDF: 2377570.3/40

Out: 186.147 $\pm$ 0.027 χ^2 /NDF: 3015767.2/45

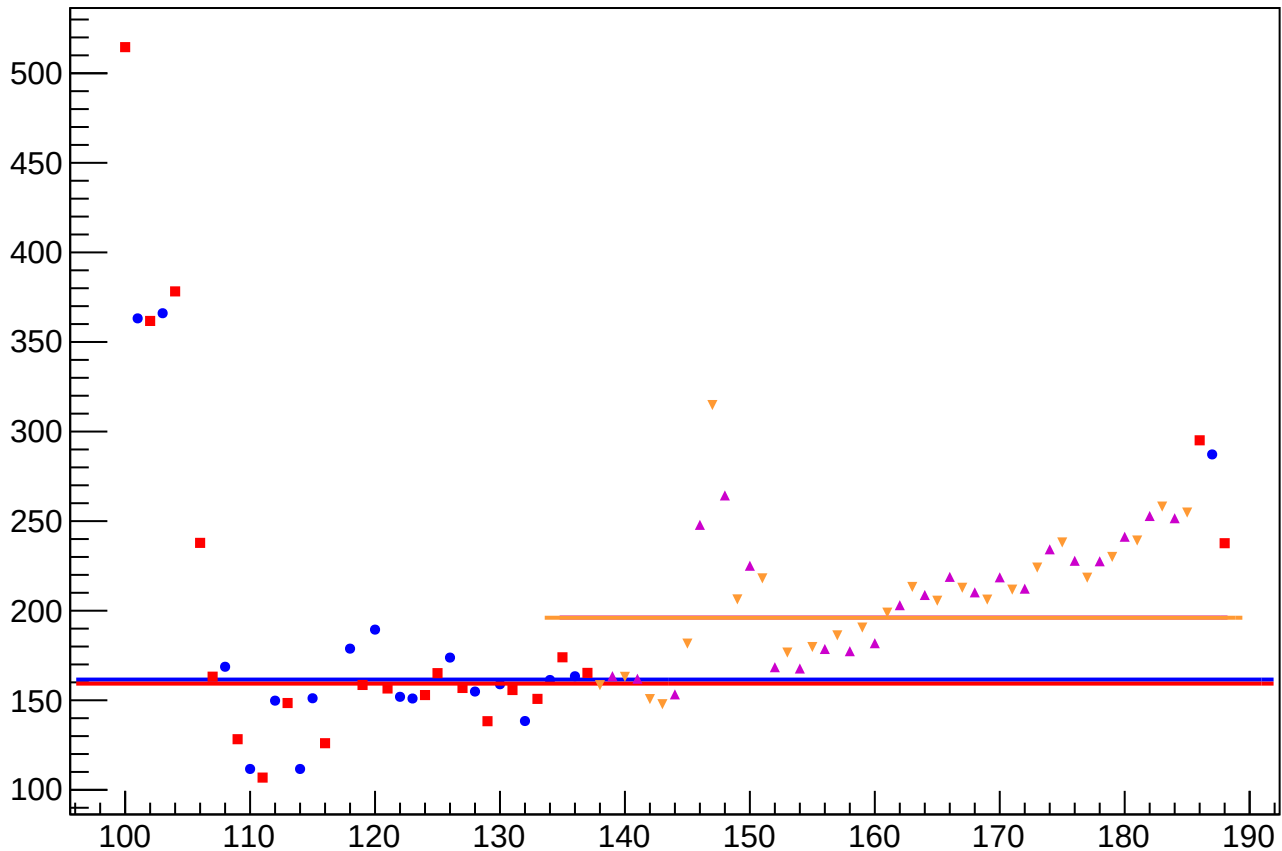
All: 186.399 $\pm$ 0.019 χ^2 /NDF: 5393528.2/86

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127170.427+/-0.066	χ^2/NDF : 1916908085.7/17	Left: 129302.466+/-0.034	χ^2/NDF : 2665755007.2/4
Left Out: 129335.946+/-0.047	χ^2/NDF : 1450933621.0/24	Right: 127735.566+/-0.044	χ^2/NDF : 6322012290.6/4
Right Out: 128190.476+/-0.059	χ^2/NDF : 4273494906.2/20	In: 128541.214+/-0.039	χ^2/NDF : 3786772033.7/40
Left In: 129266.909+/-0.048	χ^2/NDF : 1213762773.1/22	Out: 128897.878+/-0.037	χ^2/NDF : 5954249352.9/4
		All: 128729.991+/-0.027	χ^2/NDF : 978542887.1/10

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 161.558 $\pm$ 0.047 χ^2 /NDF: 998142.0/17

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 159.295 $\pm$ 0.042 χ^2 /NDF: 1460538.9/20

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

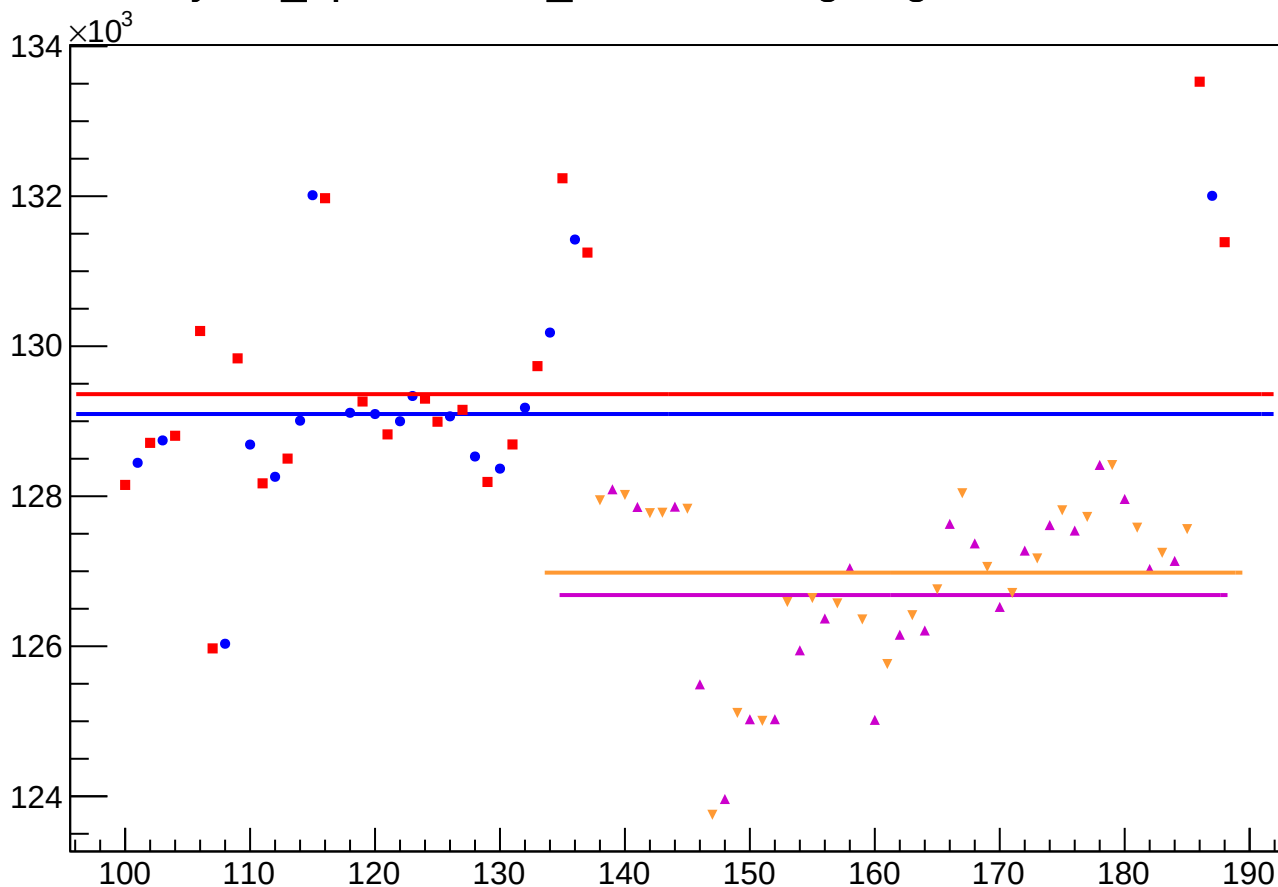
Right: 160.304 $\pm$ 0.031 χ^2 /NDF: 2459975.7/38

In: 184.200 $\pm$ 0.028 χ^2 /NDF: 2254197.3/40

Out: 182.011 $\pm$ 0.026 χ^2 /NDF: 2910186.1/45

All: 183.041 $\pm$ 0.019 χ^2 /NDF: 5167728.6/86

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129096.265 $\pm$ 0.060

χ^2 /NDF: 496195410.7/17

Left: 126836.943 $\pm$ 0.033

χ^2 /NDF: 1211882944.2/4

Right: 129242.226 $\pm$ 0.040

χ^2 /NDF: 1299094550.2/4

Left Out: 126981.724 $\pm$ 0.046

χ^2 /NDF: 530573115.8/24

Right Out: 129361.218 $\pm$ 0.054

χ^2 /NDF: 792163608.8/20

In: 127599.945 $\pm$ 0.037

χ^2 /NDF: 2159166286.8/40

Out: 127966.159 $\pm$ 0.035

χ^2 /NDF: 2453098338.6/4

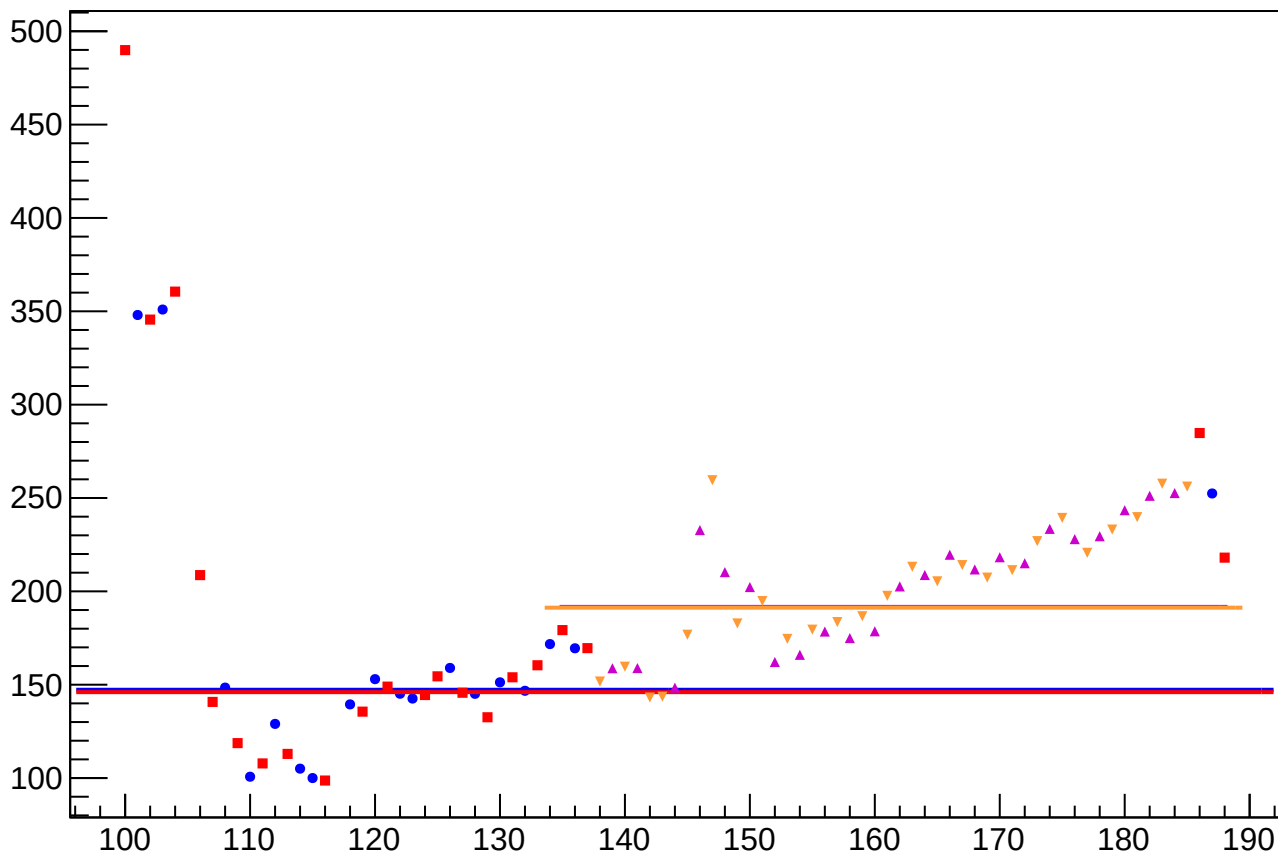
Left In: 126682.659 $\pm$ 0.047

χ^2 /NDF: 660415880.0/22

All: 127793.971 $\pm$ 0.025

χ^2 /NDF: 466416554.0/100

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 147.292 $\pm$ 0.042 χ^2 /NDF: 1118969.7/17

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 146.011 $\pm$ 0.038 χ^2 /NDF: 1596429.4/20

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

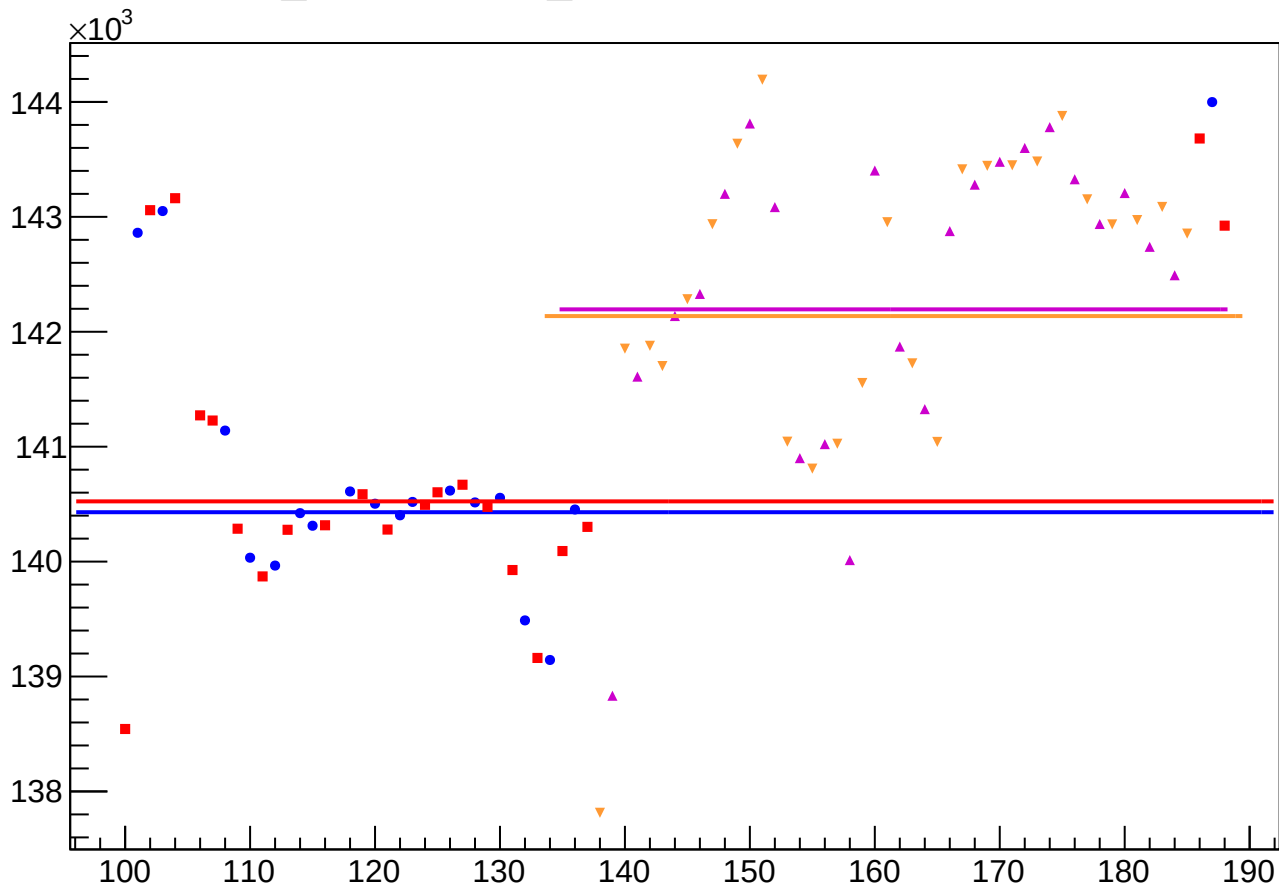
Right: 146.586 $\pm$ 0.028 χ^2 /NDF: 2715900.5/38

In: 174.812 $\pm$ 0.026 χ^2 /NDF: 2661604.1/40

Out: 172.542 $\pm$ 0.025 χ^2 /NDF: 3406608.4/45

All: 173.609 $\pm$ 0.018 χ^2 /NDF: 6072201.8/86

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140429.759+/-0.064

χ^2/NDF : 112455414.0/17

Left Out: 142136.579+/-0.052

χ^2/NDF : 815573343.0/24

Right Out: 140524.101+/-0.058

χ^2/NDF : 216666380.3/20

Left In: 142195.020+/-0.054

χ^2/NDF : 644030906.9/22

Left: 142164.953+/-0.038

χ^2/NDF : 1460209902.9/4

Right: 140481.548+/-0.043

χ^2/NDF : 330306835.9/3

In: 141465.914+/-0.041

χ^2/NDF : 1200123085.4/40

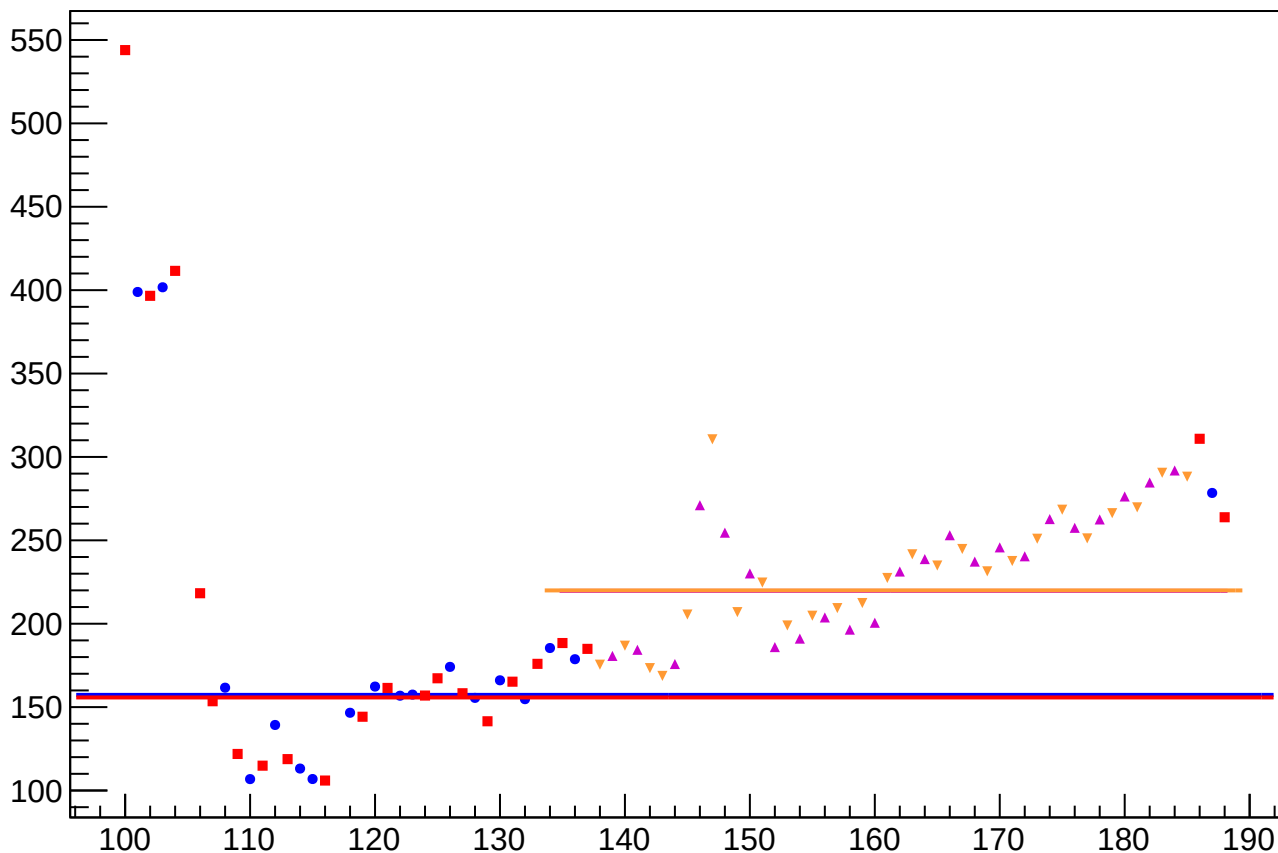
Out: 141415.846+/-0.039

χ^2/NDF : 1456706748.0/4

All: 141439.412+/-0.028

χ^2/NDF : 265760906.9/22

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 157.333+/-0.045 χ^2/NDF : 1210639.6/17

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 155.789+/-0.041 χ^2/NDF : 1809464.7/20

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

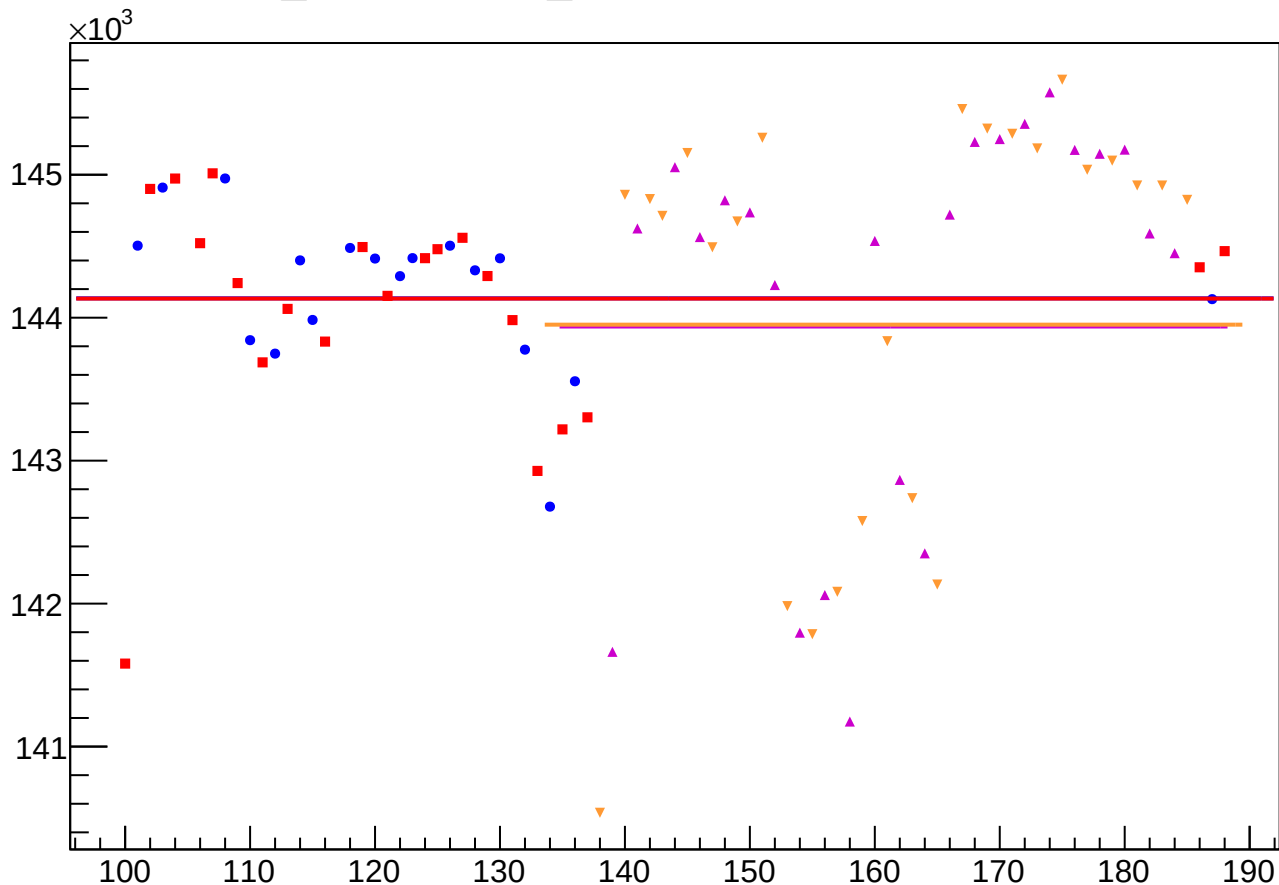
Right: 156.485+/-0.030 χ^2/NDF : 3020739.3/38

In: 193.931+/-0.029 χ^2/NDF : 3130357.1/40

Out: 191.282+/-0.028 χ^2/NDF : 4020988.9/45

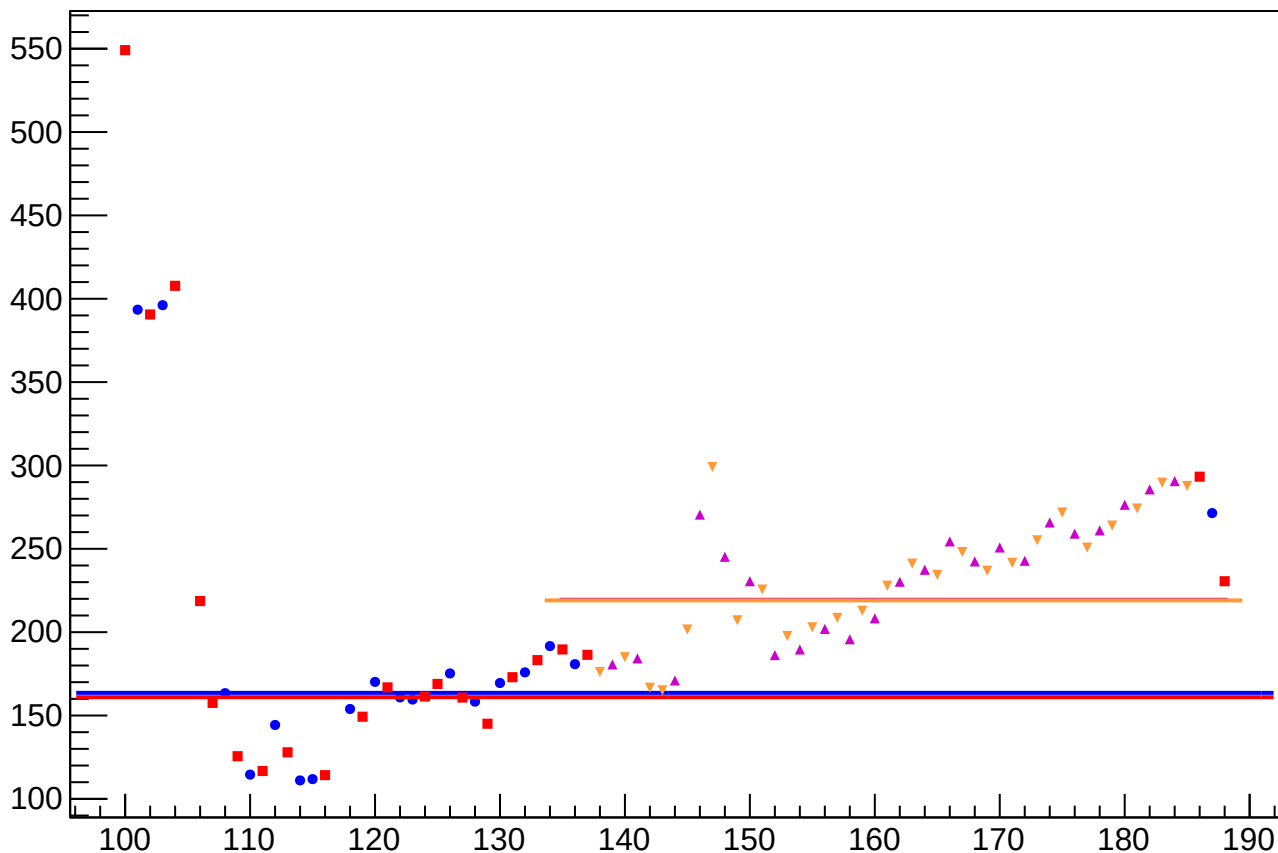
All: 192.529+/-0.020 χ^2/NDF : 7155709.1/86

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.314 $\pm$ 0.067	χ^2/NDF : 47030778.0/17	Left: 143944.995 $\pm$ 0.037	χ^2/NDF : 1584524299.4/4
Left Out: 143951.284 $\pm$ 0.052	χ^2/NDF : 864679545.2/24	Right: 144134.415 $\pm$ 0.044	χ^2/NDF : 114440728.7/3
Right Out: 144133.695 $\pm$ 0.060	χ^2/NDF : 67409622.3/20	In: 144016.193 $\pm$ 0.042	χ^2/NDF : 772140403.7/40
Left In: 143938.288 $\pm$ 0.054	χ^2/NDF : 719814685.6/22	Out: 144030.408 $\pm$ 0.039	χ^2/NDF : 937399097.3/45
		All: 144023.762 $\pm$ 0.029	χ^2/NDF : 17096008

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 163.600 $\pm$ 0.047 χ^2 /NDF: 1116510.4/17

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 160.981 $\pm$ 0.042 χ^2 /NDF: 1550112.8/20

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

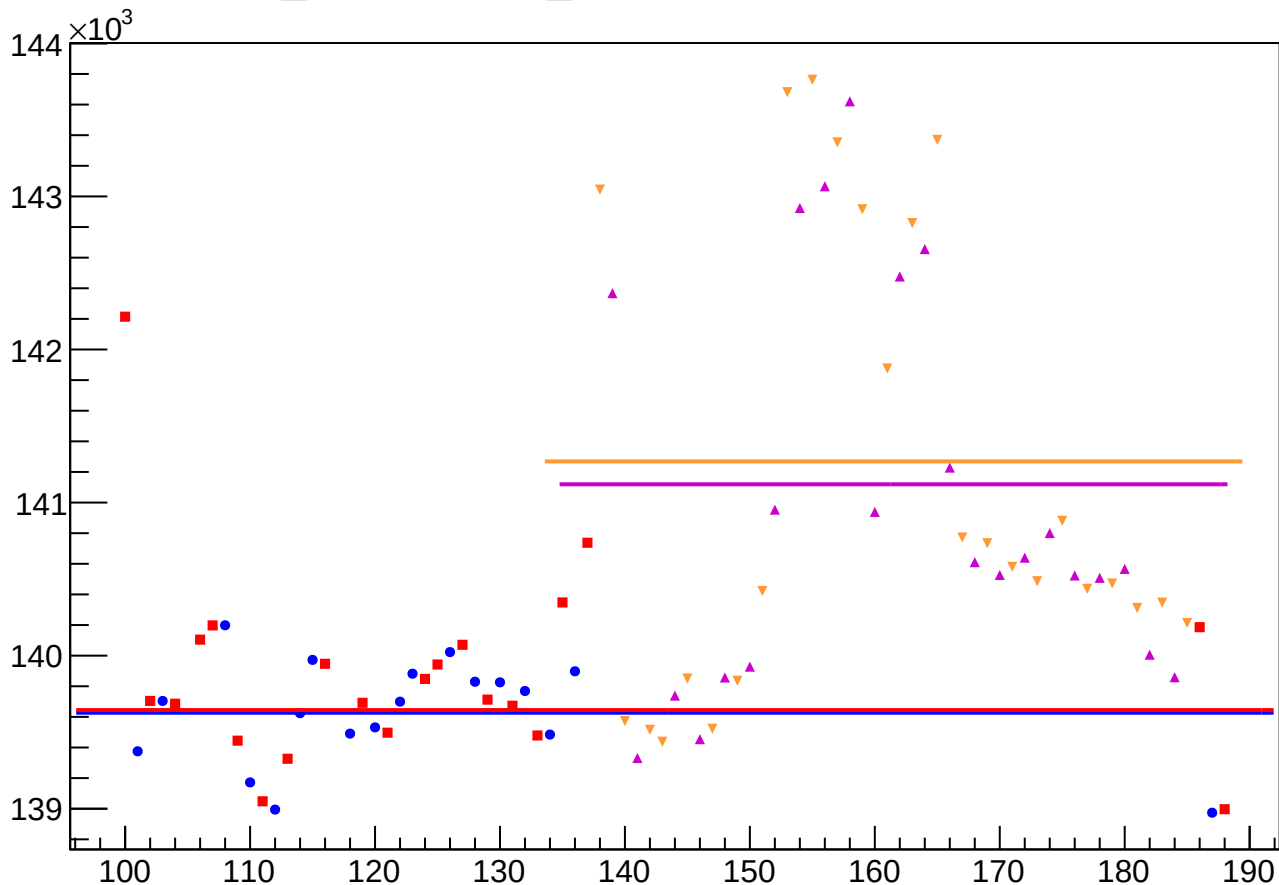
Right: 162.146 $\pm$ 0.031 χ^2 /NDF: 2668341.1/38

In: 197.352 $\pm$ 0.030 χ^2 /NDF:2816790.4/40

Out: 193.862 $\pm$ 0.028 χ^2 /NDF:3560726.8/45

All: 195.494 $\pm$ 0.020 χ^2 /NDF: 6384918.2/86

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139627.258 $\pm$ 0.068

χ^2 /NDF: 25816914.8/17

Left: 141195.809 $\pm$ 0.038

χ^2 /NDF: 1365080862.2/4

Right: 139636.759 $\pm$ 0.045

χ^2 /NDF: 70013924.6/38

Left Out: 141268.791 $\pm$ 0.054

χ^2 /NDF: 795989244.2/24

In: 140525.821 $\pm$ 0.043

χ^2 /NDF: 884889808.0/40

Right Out: 139644.572 $\pm$ 0.061

χ^2 /NDF: 44160971.1/20

Out: 140563.143 $\pm$ 0.040

χ^2 /NDF: 1237616506.6/4

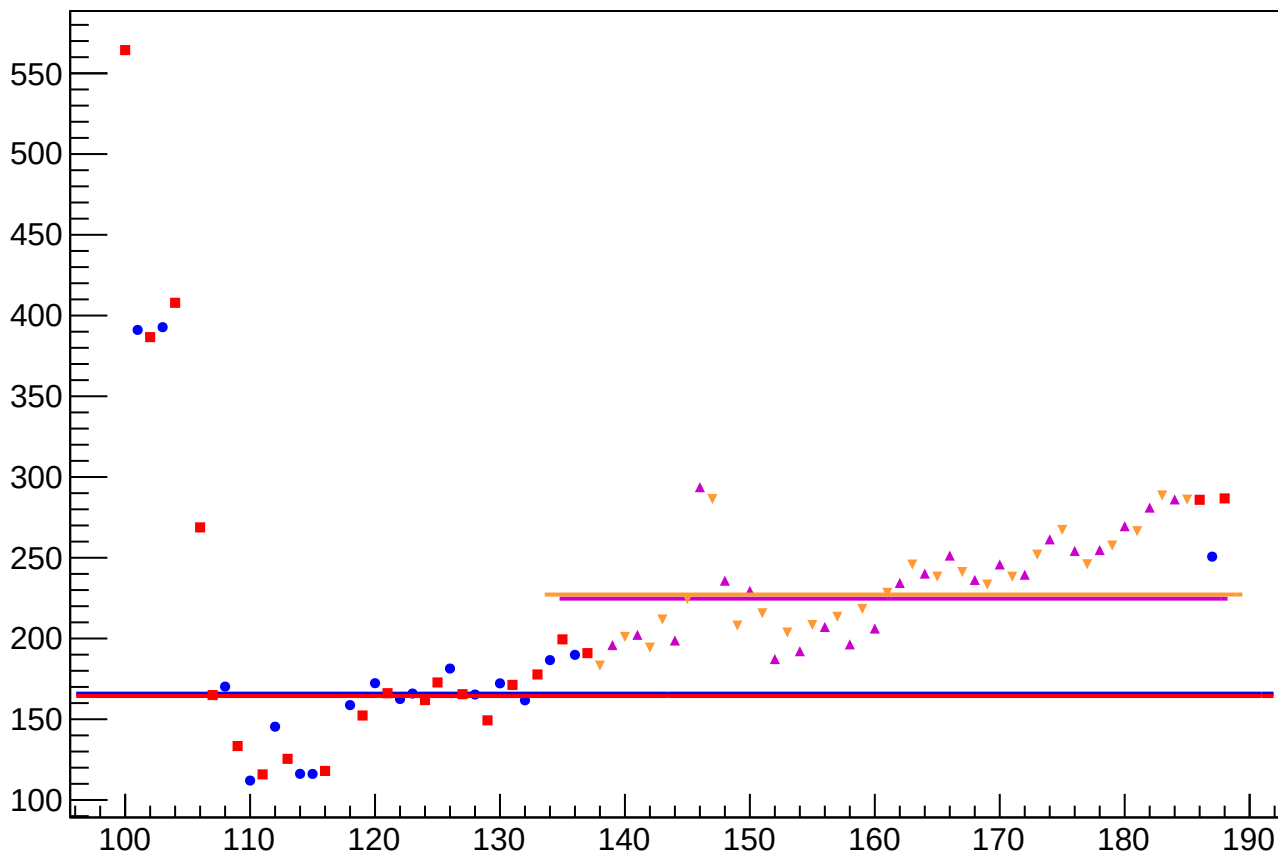
Left In: 141119.484 $\pm$ 0.055

χ^2 /NDF: 565312728.1/22

All: 140545.485 $\pm$ 0.029

χ^2 /NDF: 212291045

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 165.846 $\pm$ 0.048 χ^2 /NDF: 1098163.7/17

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 164.359 $\pm$ 0.043 χ^2 /NDF: 1718487.4/20

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

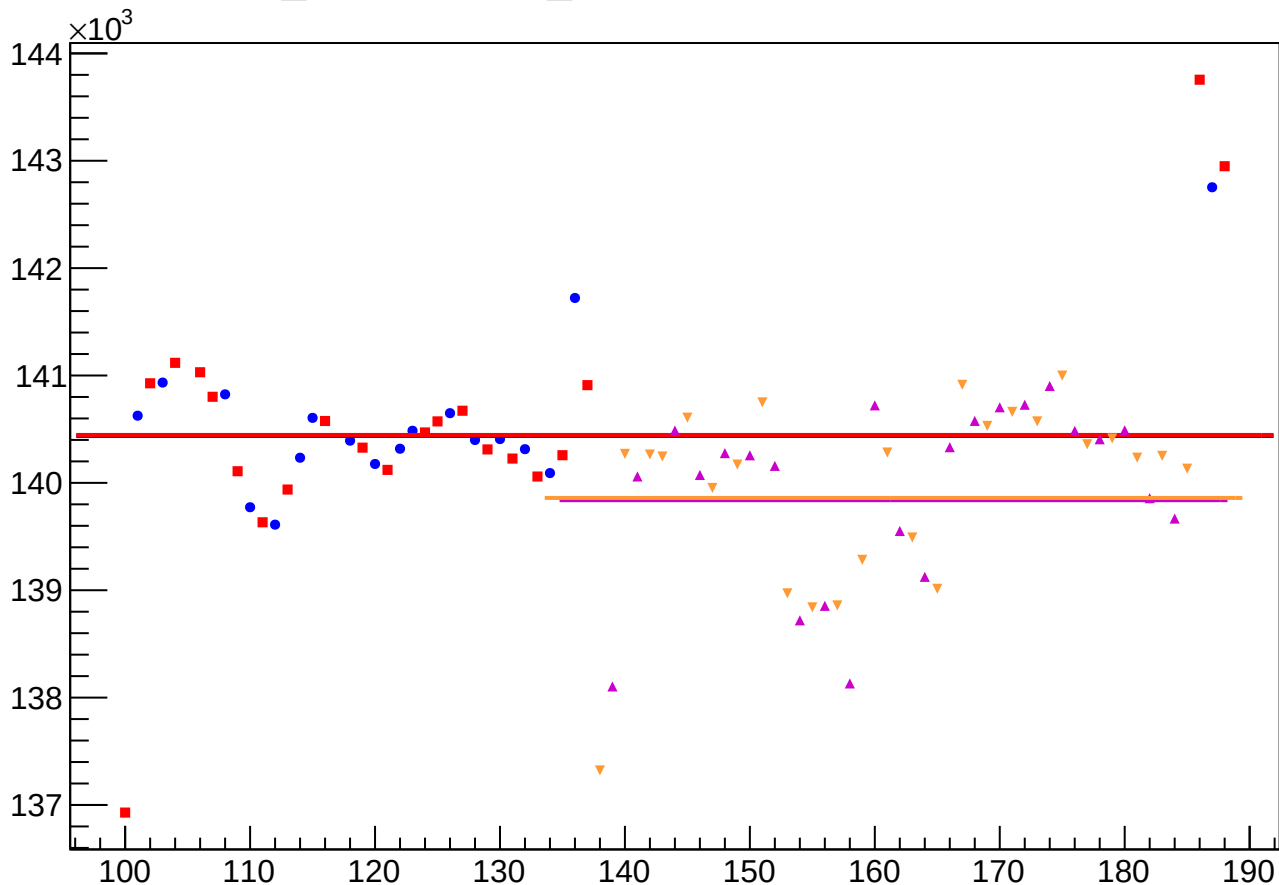
Right: 165.030 $\pm$ 0.032 χ^2 /NDF: 2817182.5/38

In: 201.277 $\pm$ 0.030 χ^2 /NDF: 2590029.1/40

Out: 199.912 $\pm$ 0.029 χ^2 /NDF: 3394295.0/45

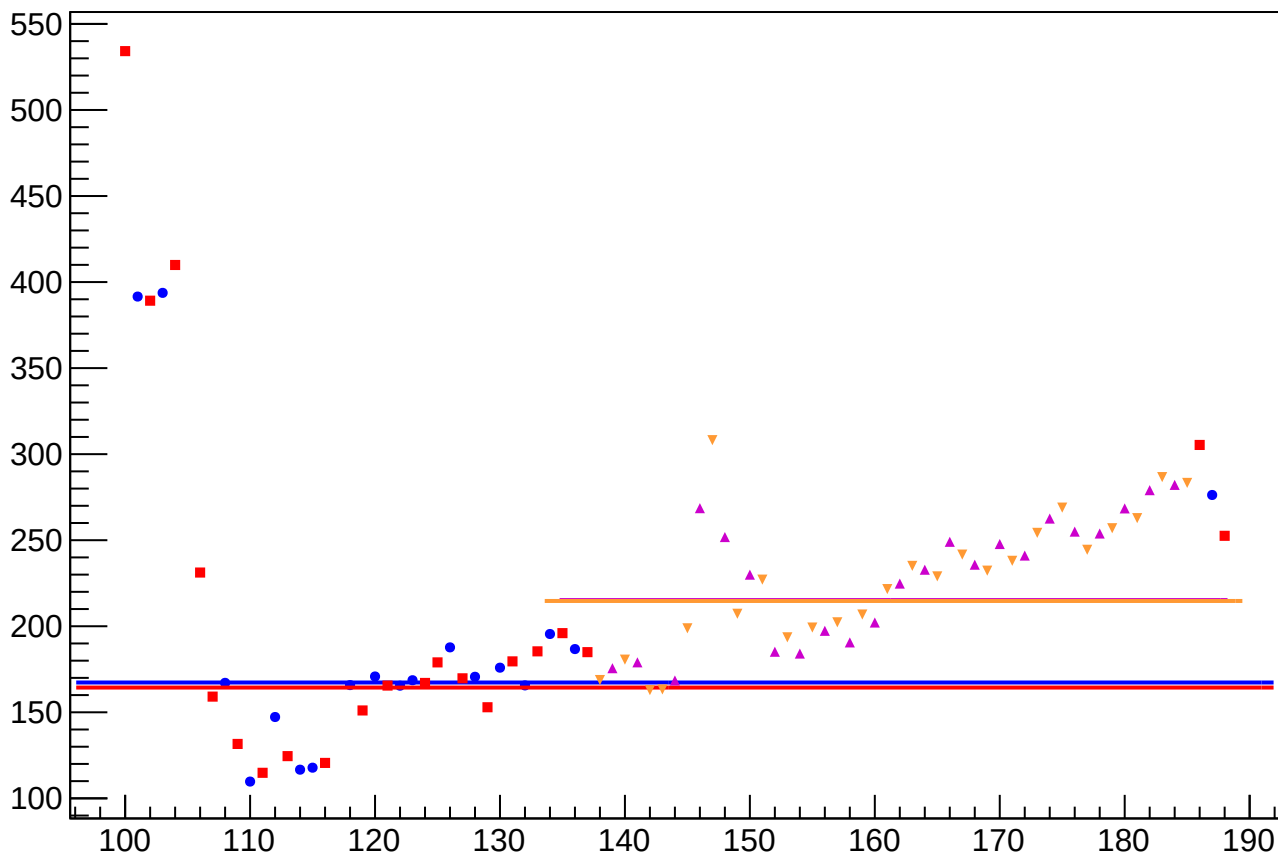
All: 200.558 $\pm$ 0.021 χ^2 /NDF: 5985405.6/86

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140436.960 $\pm$ 0.068	χ^2 /NDF: 80303566.2/17	Left: 139849.553 $\pm$ 0.037	χ^2 /NDF: 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 140442.154 $\pm$ 0.045	χ^2 /NDF: 257097503.9/3
Right Out: 140446.317 $\pm$ 0.061	χ^2 /NDF: 176783489.6/20	In: 140062.914 $\pm$ 0.042	χ^2 /NDF: 407988190.8/40
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140101.329 $\pm$ 0.039	χ^2 /NDF: 561192119.7/45
		All: 140083.338 $\pm$ 0.029	χ^2 /NDF: 96963043

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 167.315 $\pm$ 0.048 χ^2 /NDF: 1126806.4/17

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 164.379 $\pm$ 0.043 χ^2 /NDF: 1624089.7/20

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

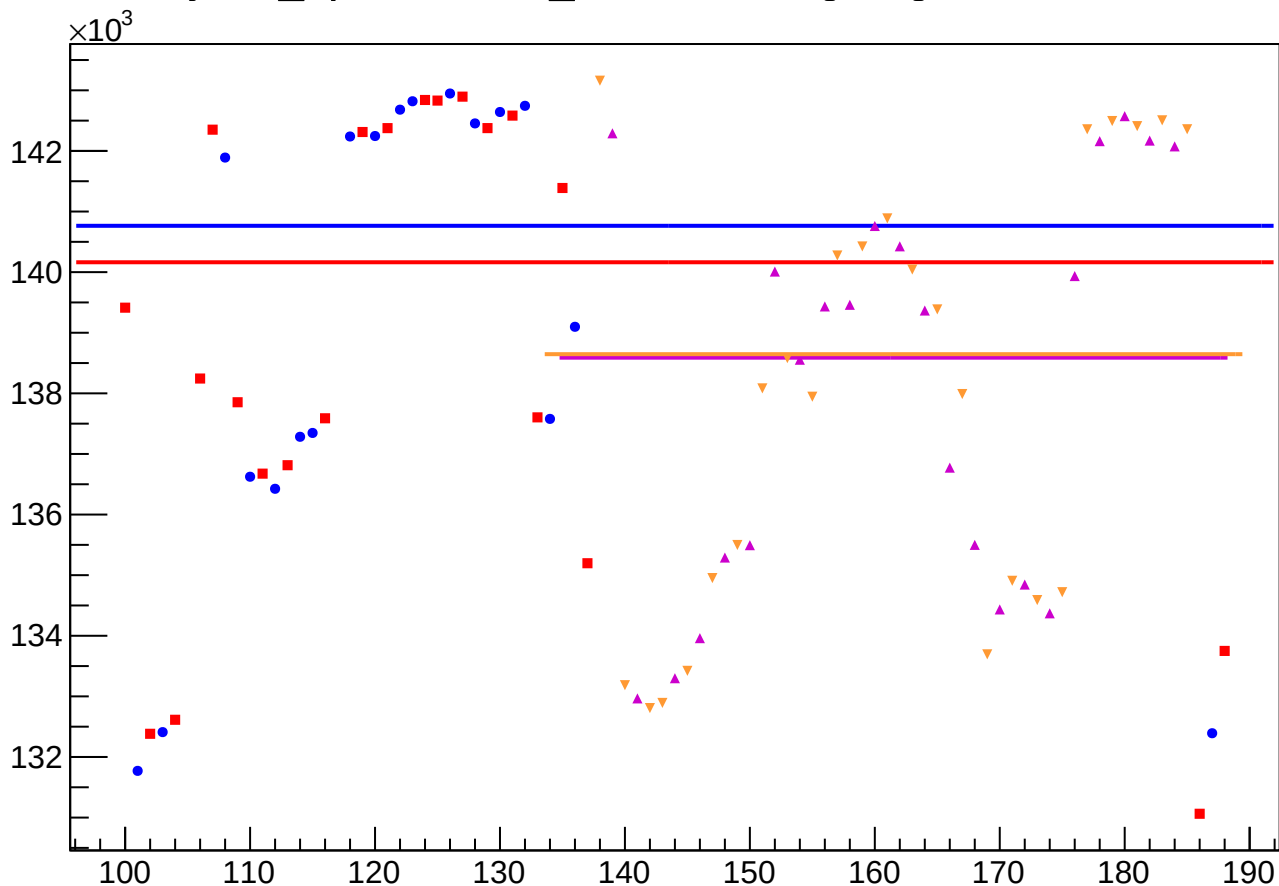
Right: 165.685 $\pm$ 0.032 χ^2 /NDF: 2752954.2/38

In: 197.269 $\pm$ 0.030 χ^2 /NDF: 2625800.5/40

Out: 193.968 $\pm$ 0.028 χ^2 /NDF: 3403953.5/45

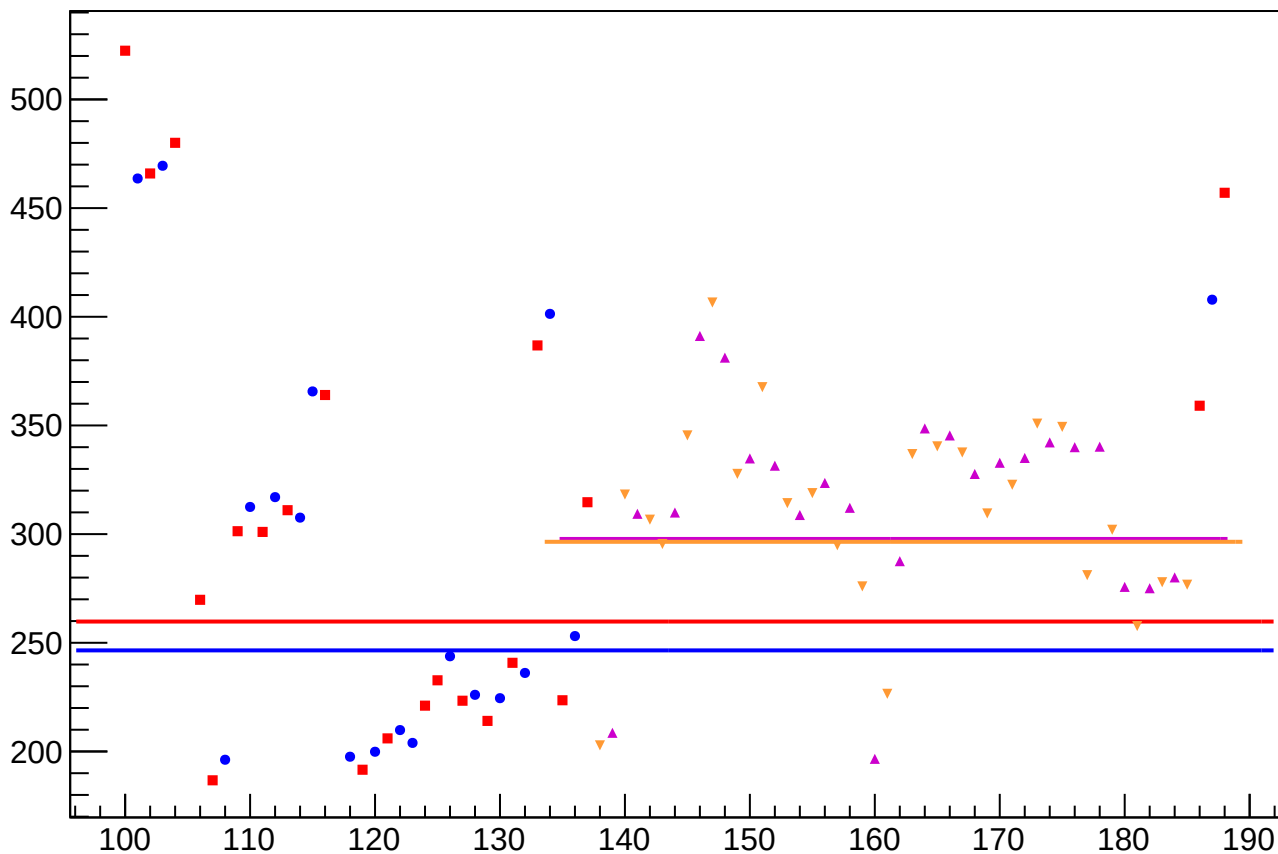
All: 195.514 $\pm$ 0.020 χ^2 /NDF: 6036399.8/86

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140764.643 $\pm$ 0.100	χ^2 /NDF: 881835774.6/17	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 140451.895 $\pm$ 0.069	χ^2 /NDF: 2175292717.2/4
Right Out: 140162.937 $\pm$ 0.096	χ^2 /NDF: 1274542803.6/20	In: 139356.620 $\pm$ 0.059	χ^2 /NDF: 3137838688.0/40
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 139182.018 $\pm$ 0.057	χ^2 /NDF: 3985011686.8/4
		All: 139265.903 $\pm$ 0.041	χ^2 /NDF: 712736144

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 246.504 $\pm$ 0.071 χ^2 /NDF: 913053.7/17

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 259.775 $\pm$ 0.068 χ^2 /NDF: 1412821.8/20

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

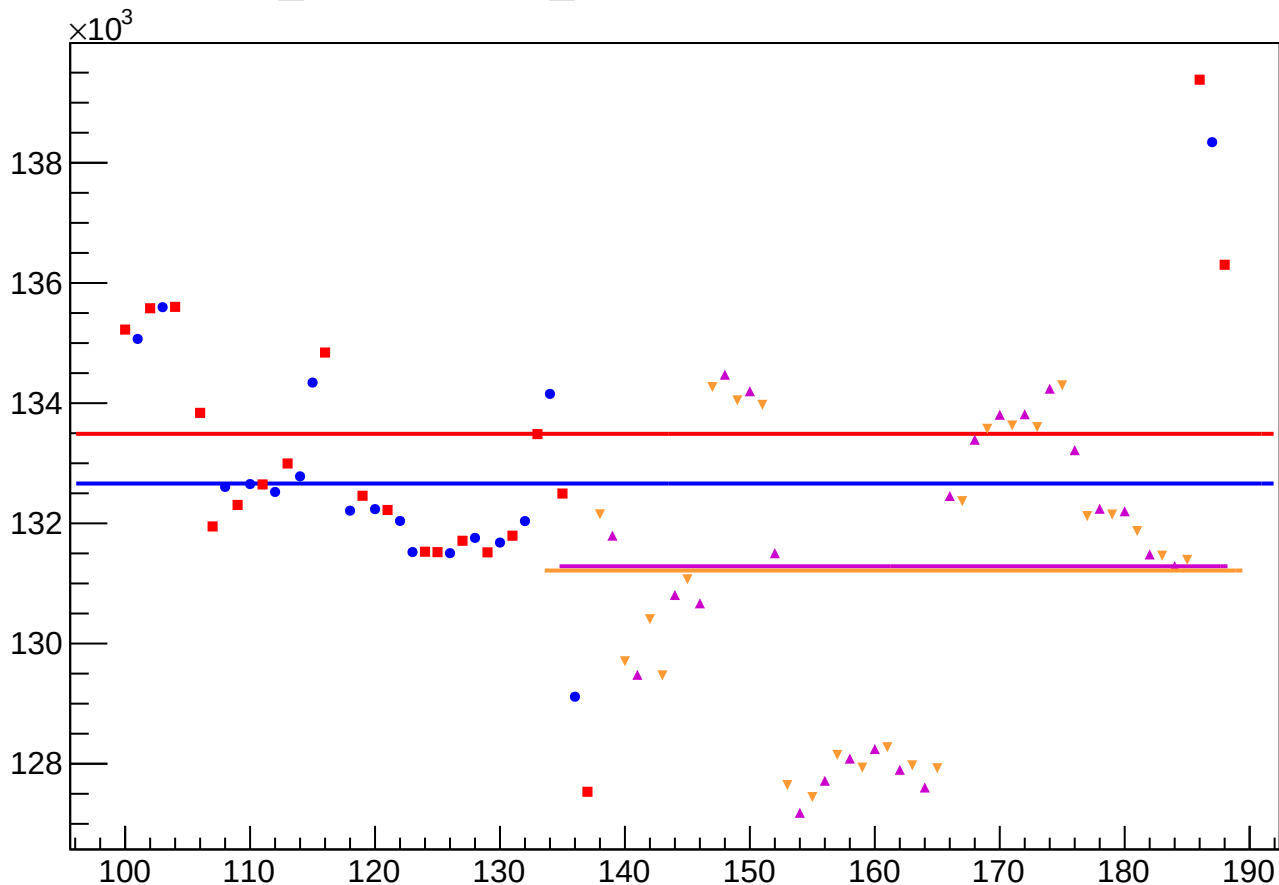
Right: 253.402 $\pm$ 0.049 χ^2 /NDF: 2344276.6/38

In: 279.681 $\pm$ 0.042 χ^2 /NDF: 2316469.0/40

Out: 283.506 $\pm$ 0.040 χ^2 /NDF: 2495832.4/45

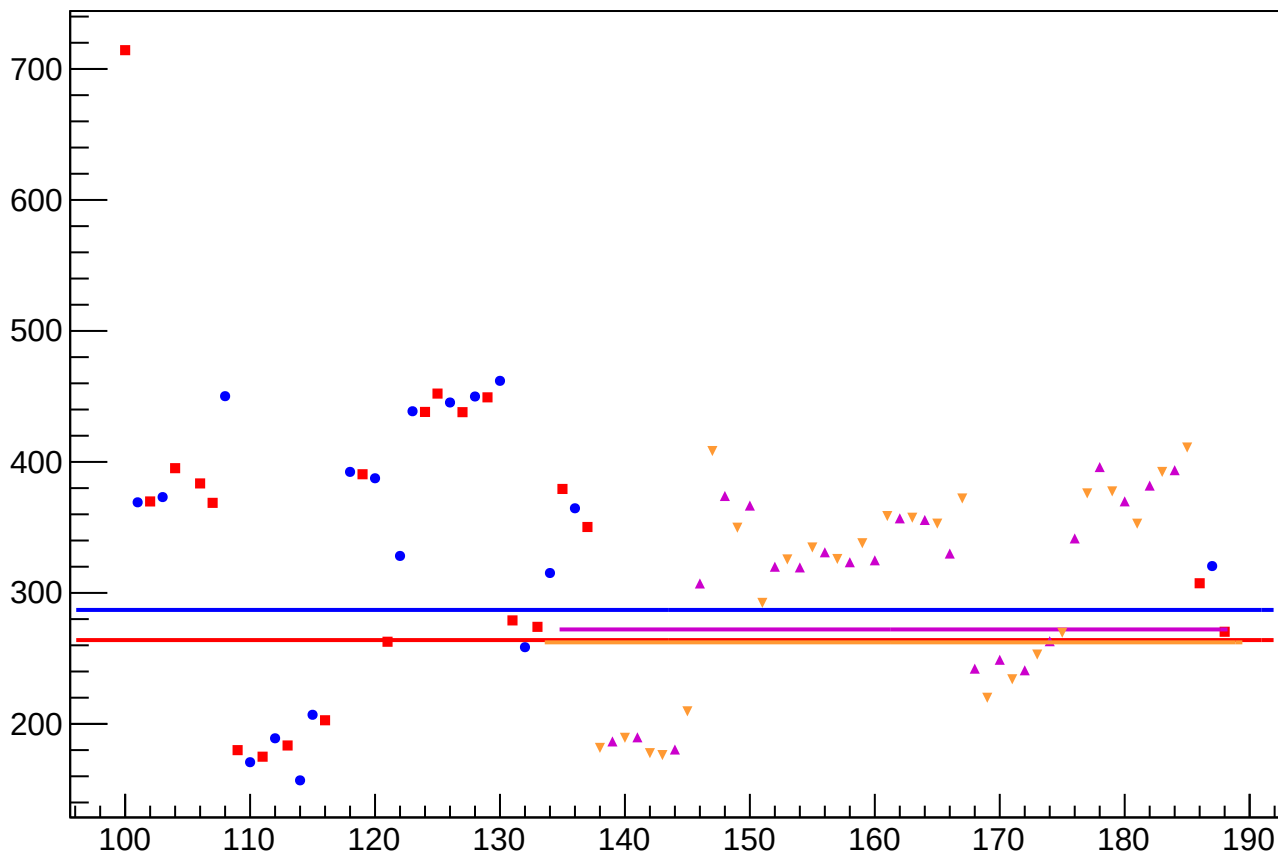
All: 281.668 $\pm$ 0.029 χ^2 /NDF: 4816631.7/86

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132662.891 $\pm$ 0.118	χ^2 /NDF: 207002004.5/17	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133151.907 $\pm$ 0.076	χ^2 /NDF: 654797860.6/3
Right Out: 133489.947 $\pm$ 0.098	χ^2 /NDF: 418976936.0/20	In: 131629.482 $\pm$ 0.059	χ^2 /NDF: 1364650976.1/40
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 131895.043 $\pm$ 0.054	χ^2 /NDF: 1966411217.0/4
		All: 131774.783 $\pm$ 0.040	χ^2 /NDF: 334207473

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 287.007 $\pm$ 0.084 χ^2 /NDF: 1517245.1/17

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 263.991 $\pm$ 0.070 χ^2 /NDF: 1631723.8/20

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

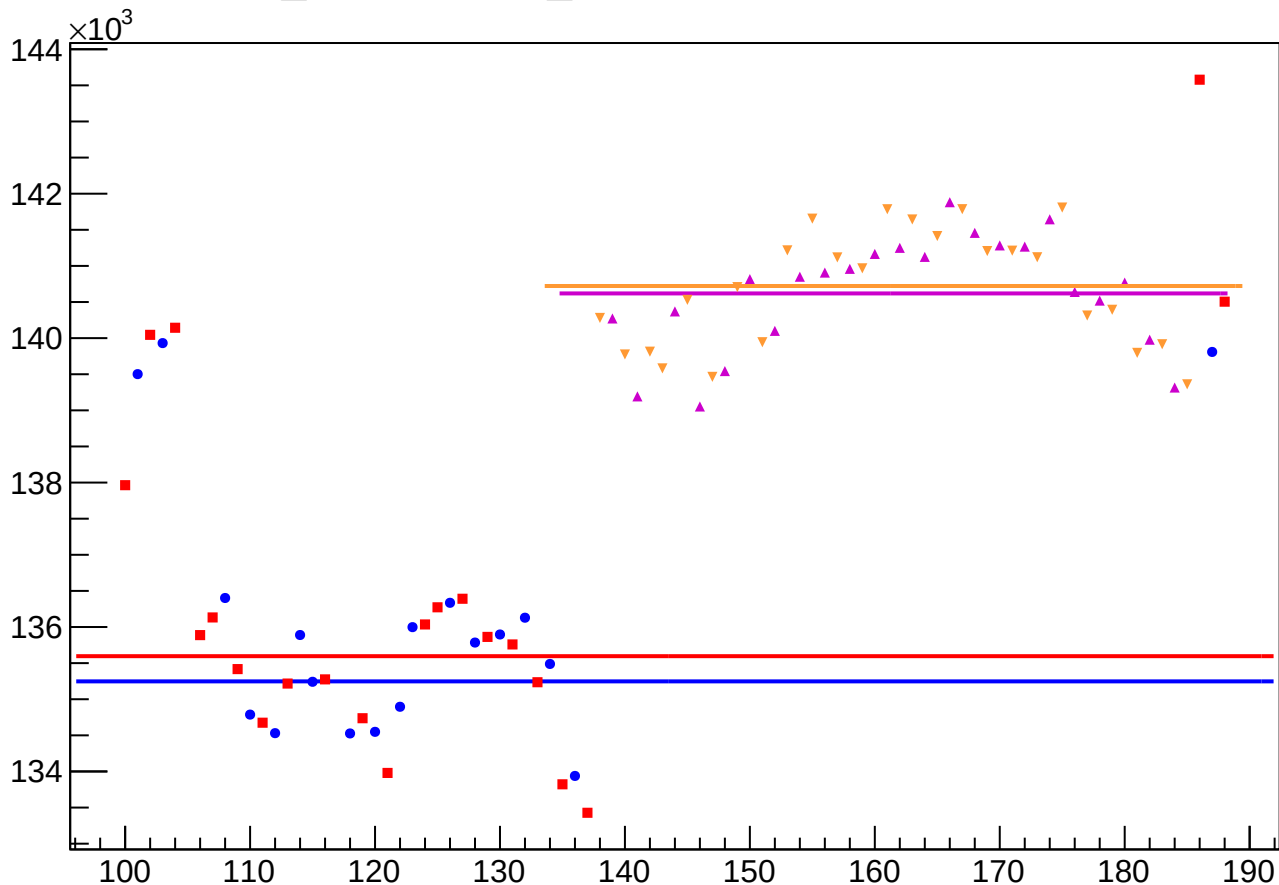
Right: 273.398 $\pm$ 0.054 χ^2 /NDF: 3193608.6/38

In: 275.833 $\pm$ 0.042 χ^2 /NDF: 3762885.7/40

Out: 262.777 $\pm$ 0.038 χ^2 /NDF: 4450326.0/45

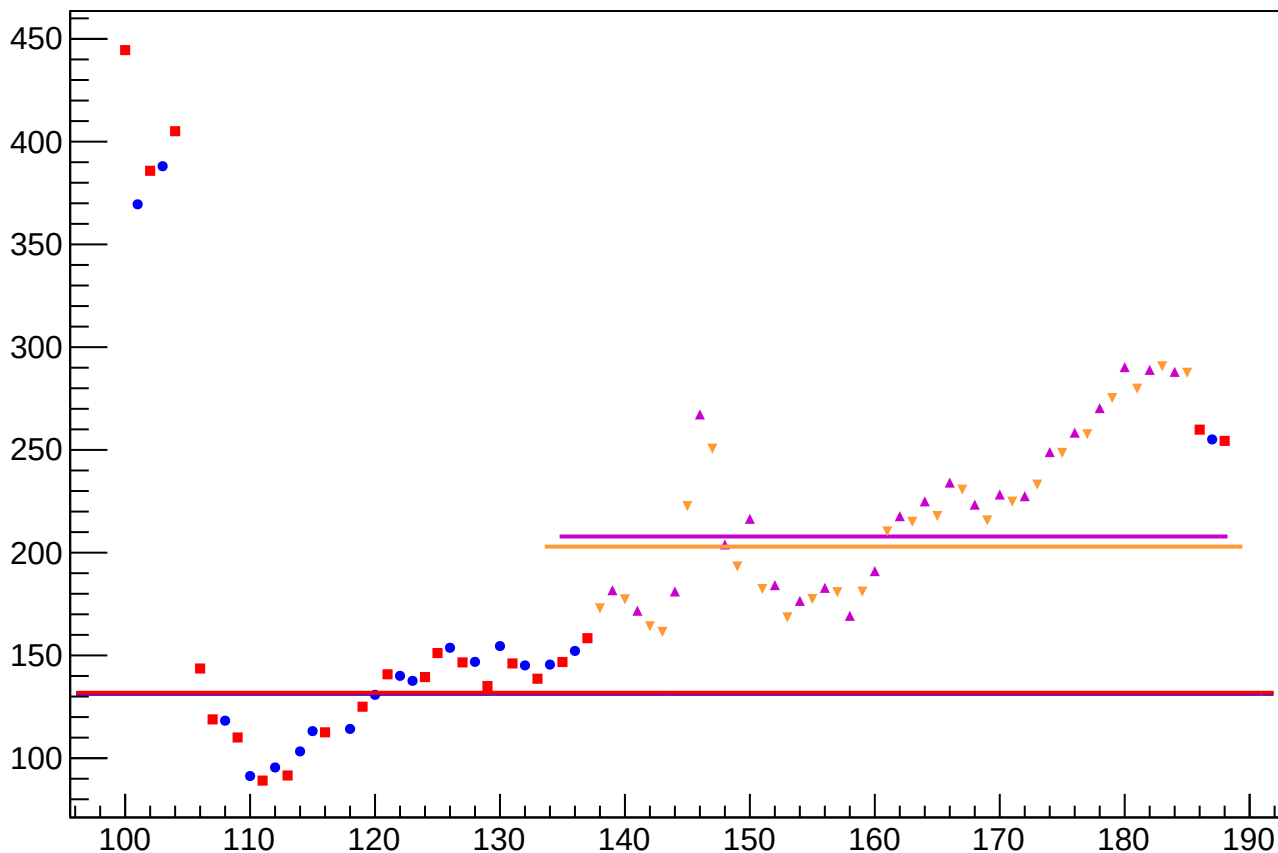
All: 268.689 $\pm$ 0.028 χ^2 /NDF: 8266446.9/86

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135247.337 $\pm$ 0.054 χ^2 /NDF: 419912915.3/17
 Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24
 Right Out: 135596.215 $\pm$ 0.050 χ^2 /NDF: 1074871244.8/20
 Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22
 Left: 140673.196 $\pm$ 0.035 χ^2 /NDF: 449761004.9/47
 Right: 135436.244 $\pm$ 0.037 χ^2 /NDF: 1517180974.7
 In: 138094.223 $\pm$ 0.037 χ^2 /NDF: 5817210326.0/40
 Out: 138237.826 $\pm$ 0.035 χ^2 /NDF: 6755737115.2/4
 All: 138170.888 $\pm$ 0.025 χ^2 /NDF: 125809072

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 131.326 $\pm$ 0.038 χ^2 /NDF: 1444379.1/17

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 131.827 $\pm$ 0.035 χ^2 /NDF: 2056298.6/20

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

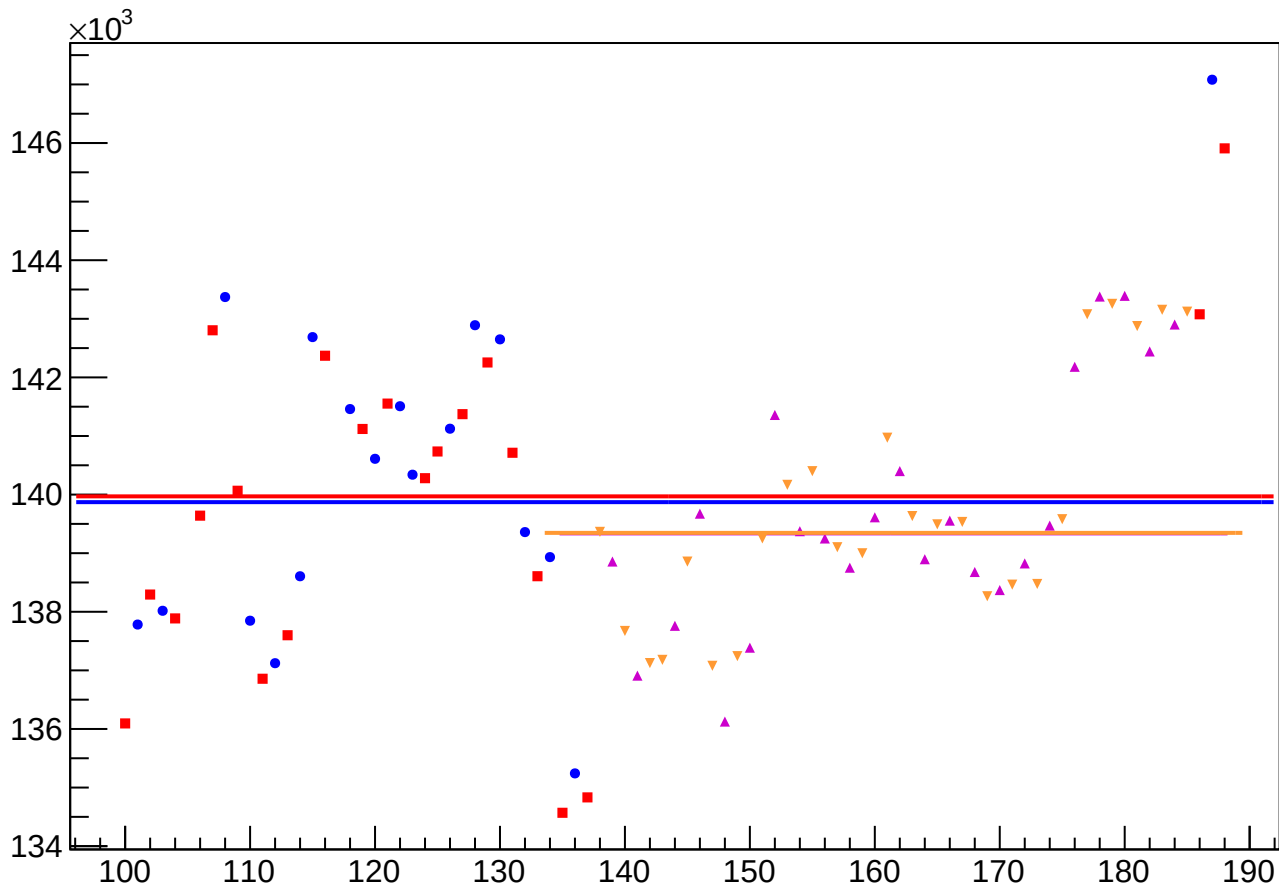
Right: 131.598 $\pm$ 0.026 χ^2 /NDF: 3500769.9/38

In: 171.894 $\pm$ 0.026 χ^2 /NDF:4504108.3/40

Out: 168.474 $\pm$ 0.025 χ^2 /NDF:5200043.8/45

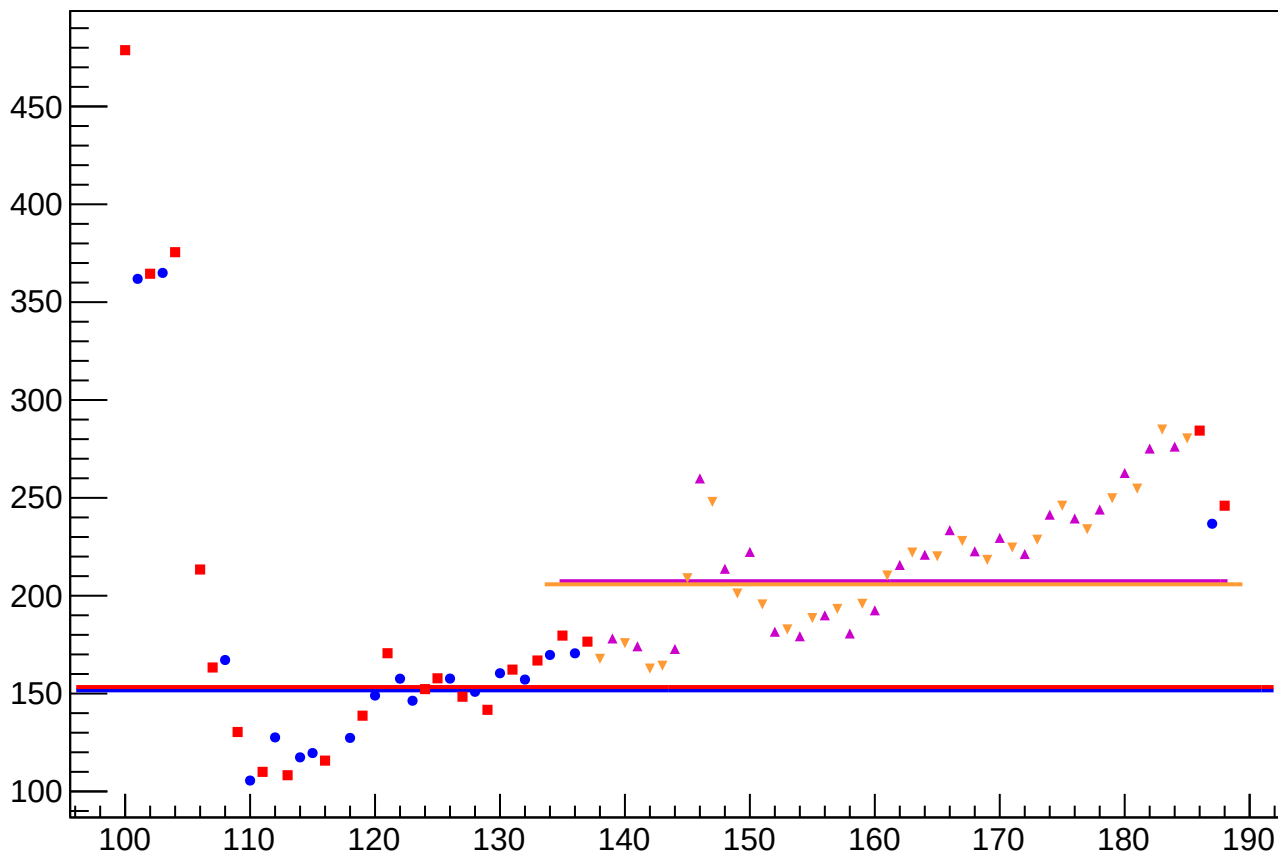
All: 170.068 $\pm$ 0.018 χ^2 /NDF: 9713181.3/86

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139870.997 $\pm$ 0.062	χ^2 /NDF: 1808143019.8/17	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: 139924.123 $\pm$ 0.042	χ^2 /NDF: 3901041936.4/4
Right Out: 139969.700 $\pm$ 0.057	χ^2 /NDF: 2091523328.5/20	In: 139553.288 $\pm$ 0.039	χ^2 /NDF: 3145580620.6/40
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139610.180 $\pm$ 0.037	χ^2 /NDF: 3431195785.4/4
		All: 139583.260 $\pm$ 0.027	χ^2 /NDF: 657788347.0/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 151.640 $\pm$ 0.044 χ^2 /NDF: 1089144.2/17

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 153.333 $\pm$ 0.040 χ^2 /NDF: 1635030.8/20

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

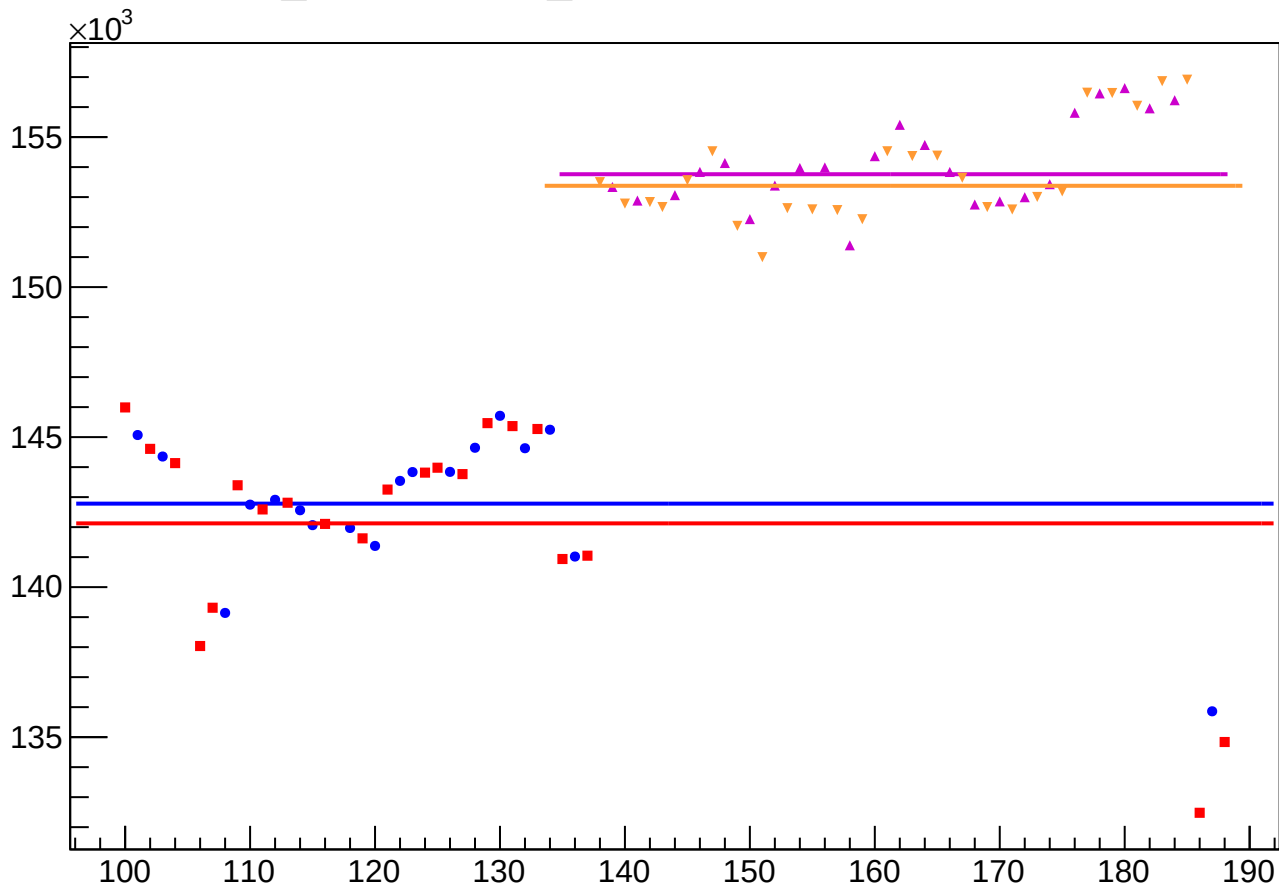
Right: 152.552 $\pm$ 0.030 χ^2 /NDF: 2724984.8/38

In: 184.879 $\pm$ 0.028 χ^2 /NDF: 2763810.0/40

Out: 183.625 $\pm$ 0.026 χ^2 /NDF: 3346252.3/45

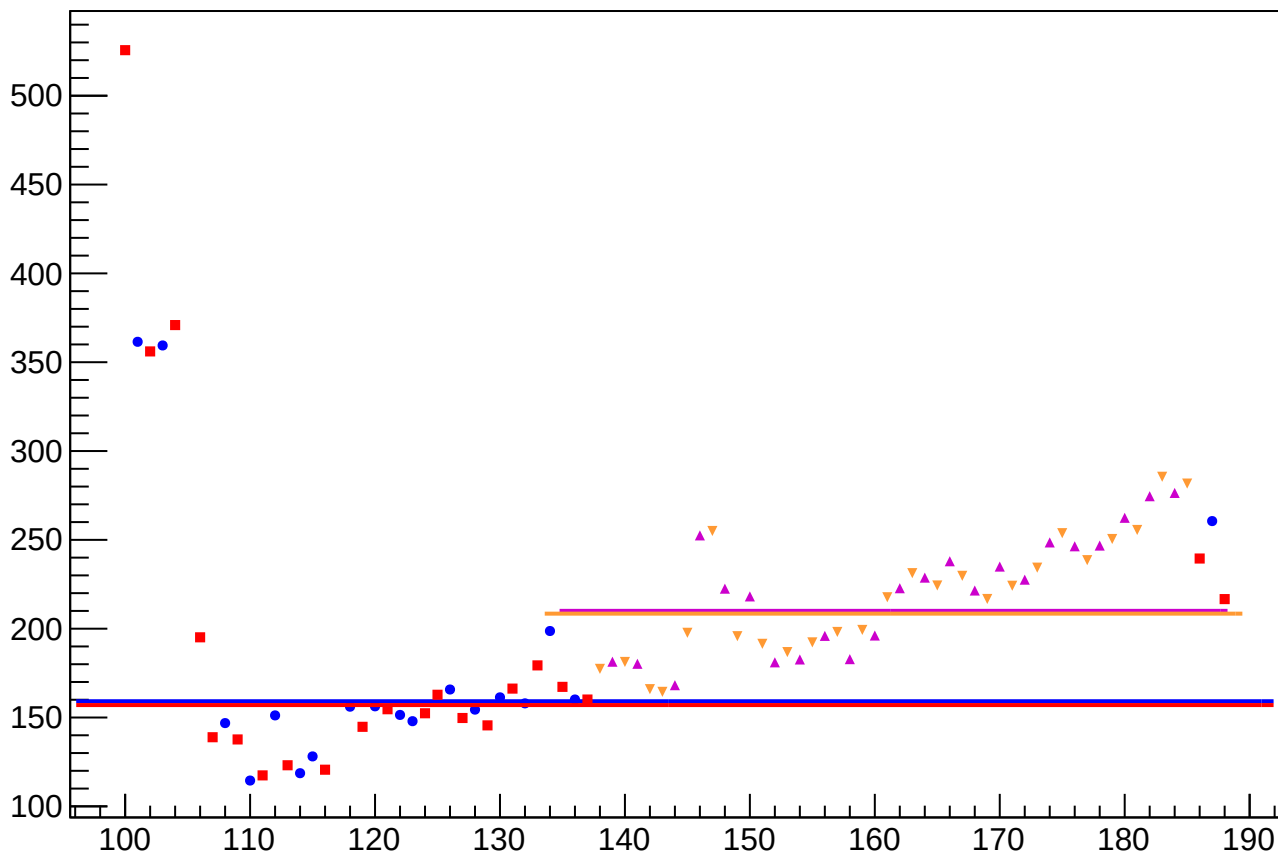
All: 184.218 $\pm$ 0.019 χ^2 /NDF: 6111138.4/86

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142782.980 $\pm$ 0.064	χ^2 /NDF: 841917755.6/17	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 142418.221 $\pm$ 0.043	χ^2 /NDF: 3486411481.2/4
Right Out: 142124.964 $\pm$ 0.058	χ^2 /NDF: 2586779493.1/20	In: 149492.348 $\pm$ 0.040	χ^2 /NDF: 19190463838.7/4
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 148614.228 $\pm$ 0.038	χ^2 /NDF: 25228662733.4/4
		All: 149024.014 $\pm$ 0.027	χ^2 /NDF: 446733976.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 159.169 $\pm$ 0.046 χ^2 /NDF: 929194.7/17

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 157.008 $\pm$ 0.041 χ^2 /NDF: 1241368.0/20

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

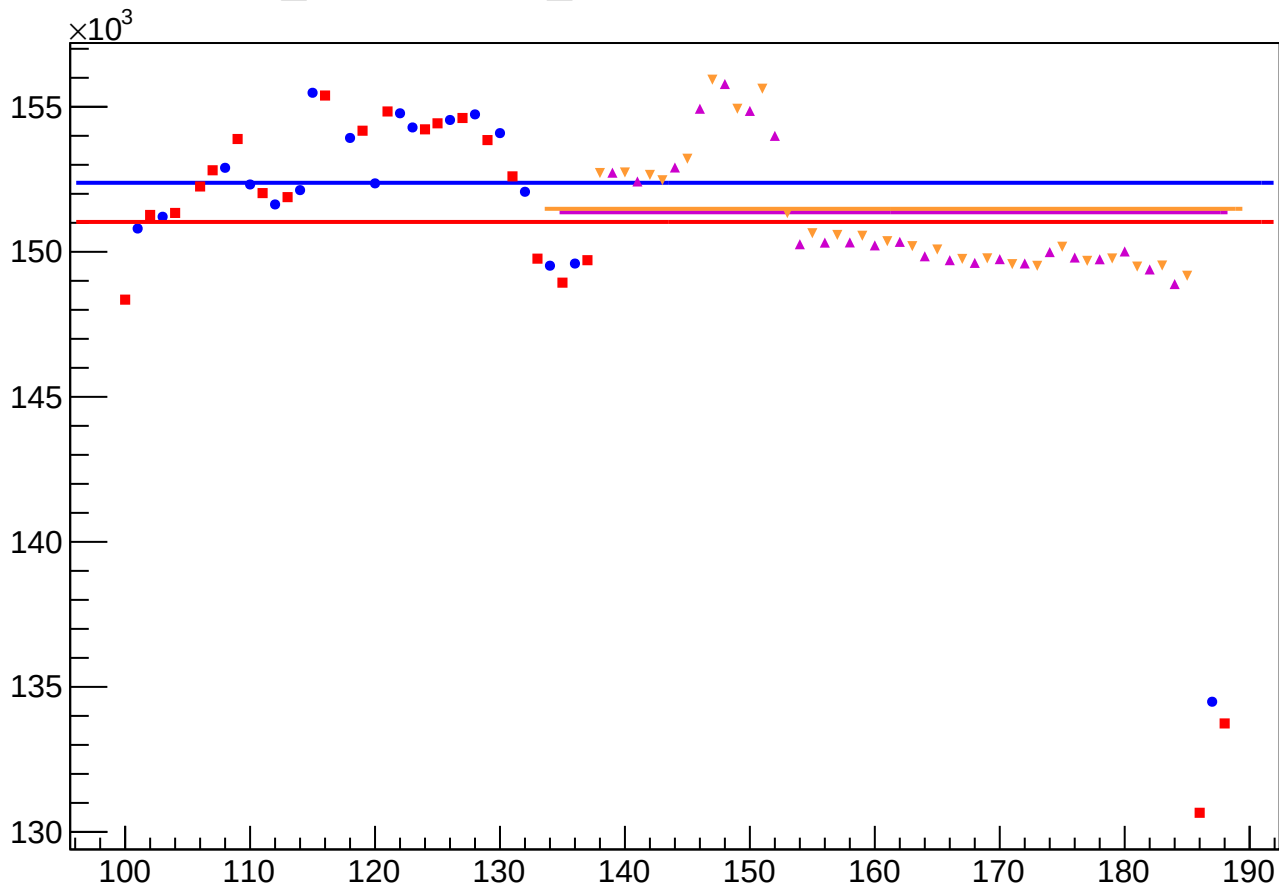
Right: 157.971 $\pm$ 0.030 χ^2 /NDF: 2171808.5/38

In: 190.254 $\pm$ 0.028 χ^2 /NDF: 2392017.8/40

Out: 186.685 $\pm$ 0.027 χ^2 /NDF: 2875779.4/45

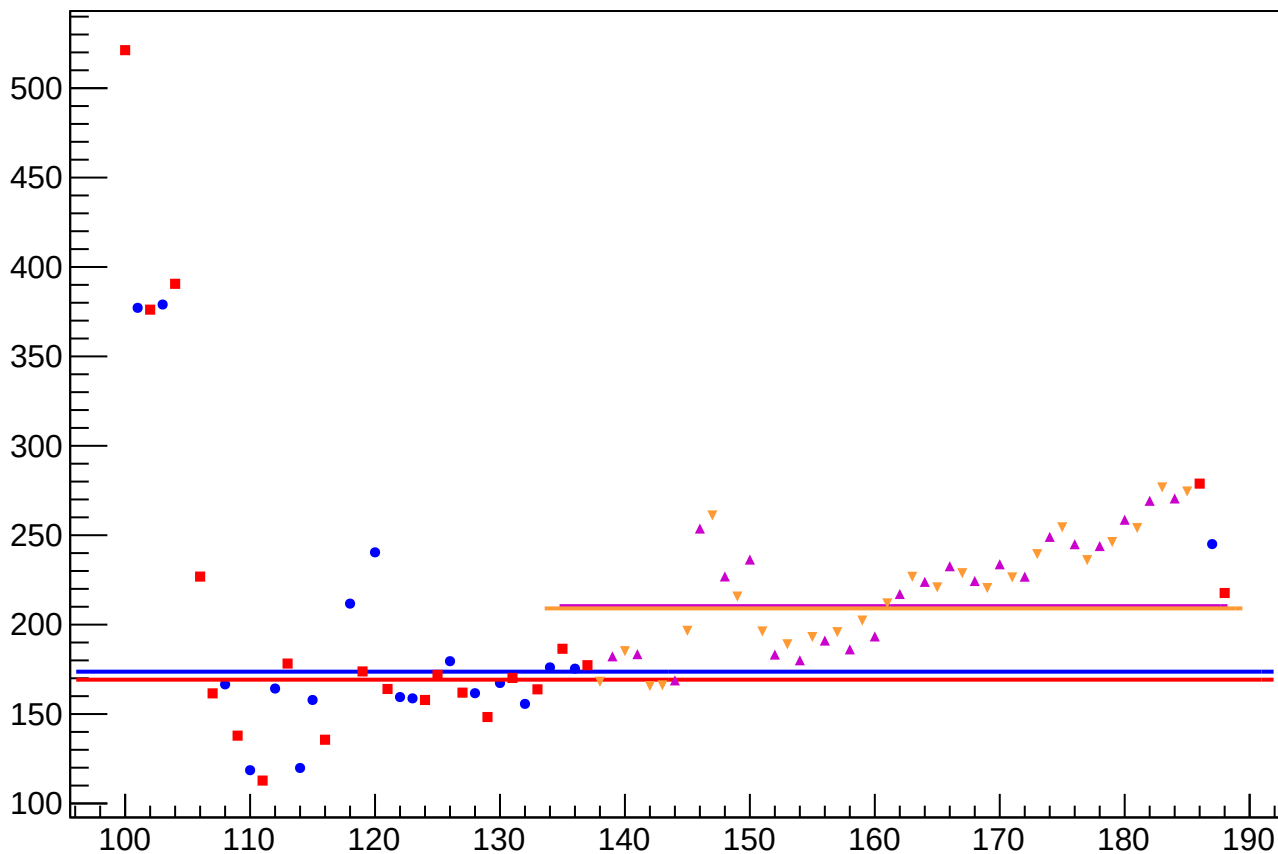
All: 188.351 $\pm$ 0.019 χ^2 /NDF: 5276197.4/86

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152380.252 $\pm$ 0.072 χ^2 /NDF: 1394284120.3/17
 Left Out: 151483.385 $\pm$ 0.050 χ^2 /NDF: 1481910066.9/24
 Right Out: 151030.453 $\pm$ 0.063 χ^2 /NDF: 9020024519.4/20
 Left In: 151363.165 $\pm$ 0.051 χ^2 /NDF: 1421662089.0/22
 Left: 151425.512 $\pm$ 0.036 χ^2 /NDF: 2906409079.9/4
 Right: 151618.380 $\pm$ 0.047 χ^2 /NDF: 10613665557.8
 In: 151707.656 $\pm$ 0.042 χ^2 /NDF: 2948561222.1/40
 Out: 151310.717 $\pm$ 0.039 χ^2 /NDF: 10533823423.7
 All: 151495.226 $\pm$ 0.028 χ^2 /NDF: 135306463

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 173.697 $\pm$ 0.051 χ^2 /NDF: 970378.1/17

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 169.220 $\pm$ 0.045 χ^2 /NDF: 1254076.0/20

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

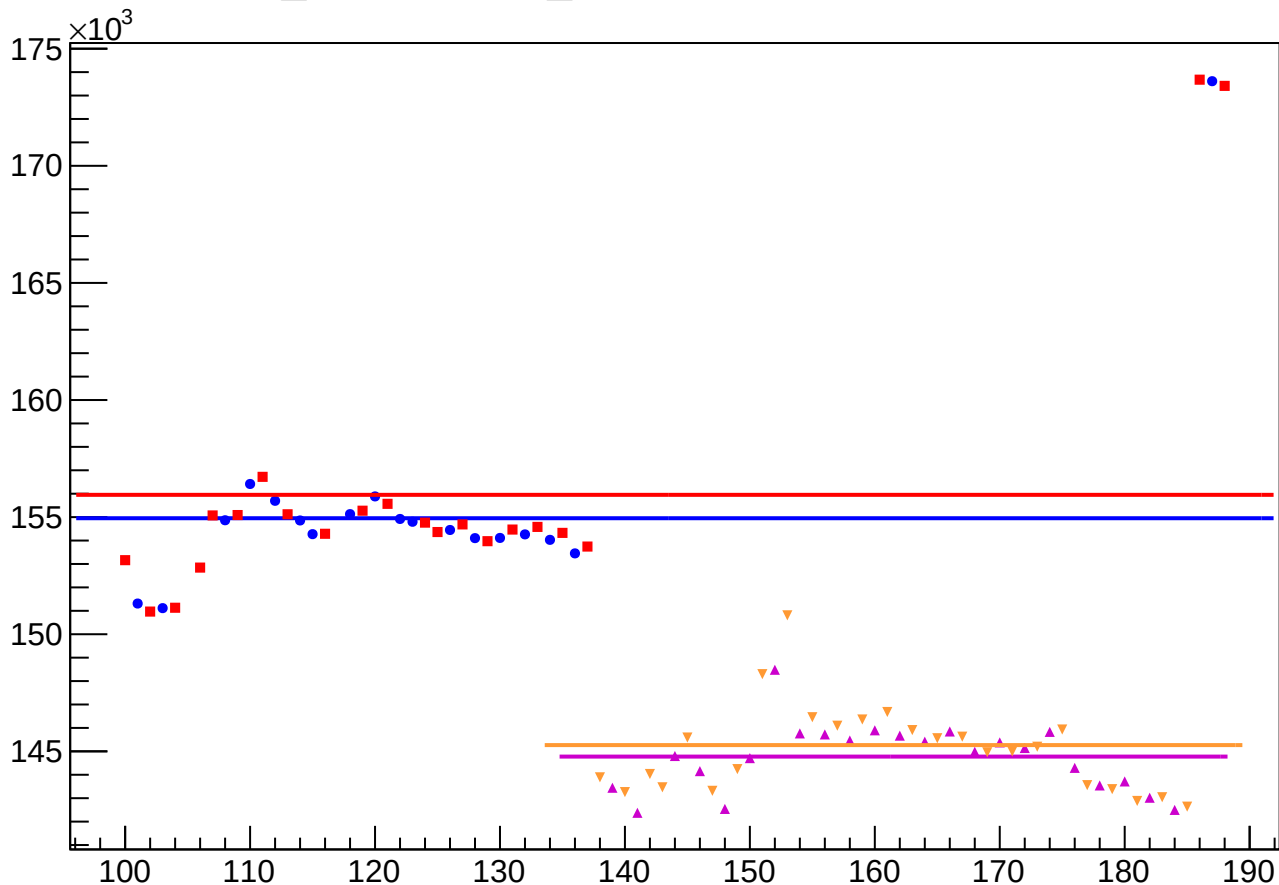
Right: 171.170 $\pm$ 0.034 χ^2 /NDF: 2228840.7/38

In: 197.932 $\pm$ 0.030 χ^2 /NDF: 1992482.6/40

Out: 193.882 $\pm$ 0.028 χ^2 /NDF: 2456191.6/45

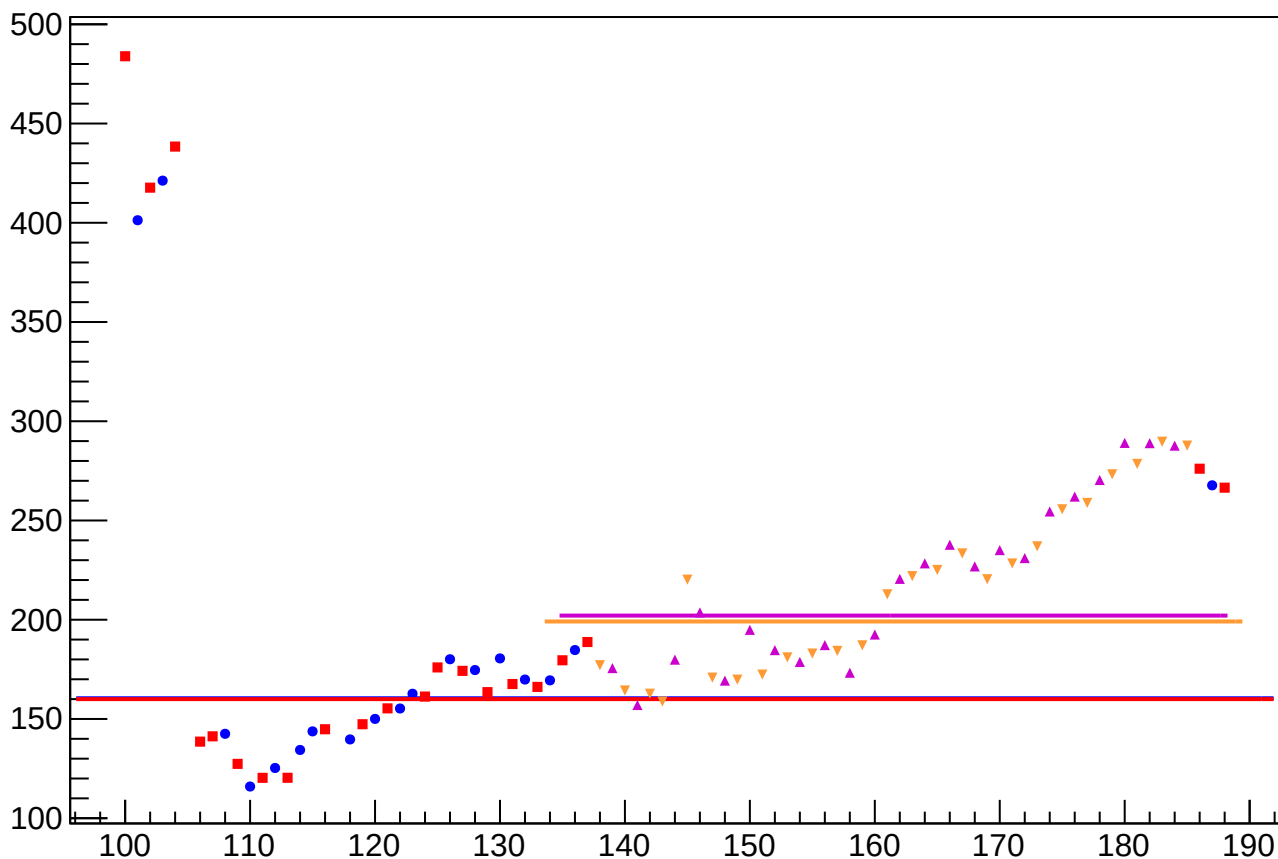
All: 195.764 $\pm$ 0.020 χ^2 /NDF: 4458723.3/86

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154953.012 $\pm$ 0.065 χ^2 /NDF: 1003515564.5/17
 Left Out: 145266.717 $\pm$ 0.047 χ^2 /NDF: 1717707352.7/24
 Right Out: 155951.730 $\pm$ 0.059 χ^2 /NDF: 5977664452.2/20
 Left In: 144776.016 $\pm$ 0.050 χ^2 /NDF: 918120275.4/22
 Left: 145032.324 $\pm$ 0.034 χ^2 /NDF: 2687033506.0/17
 Right: 155501.709 $\pm$ 0.044 χ^2 /NDF: 7110164786.1/17
 In: 148504.227 $\pm$ 0.039 χ^2 /NDF: 17369252683.5/17
 Out: 149454.783 $\pm$ 0.037 χ^2 /NDF: 27618037494.3/17
 All: 149010.509 $\pm$ 0.027 χ^2 /NDF: 452965002.0/17

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 160.426+/-0.046 χ^2/NDF : 1180453.4/17

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 159.999+/-0.042 χ^2/NDF : 1611870.8/20

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

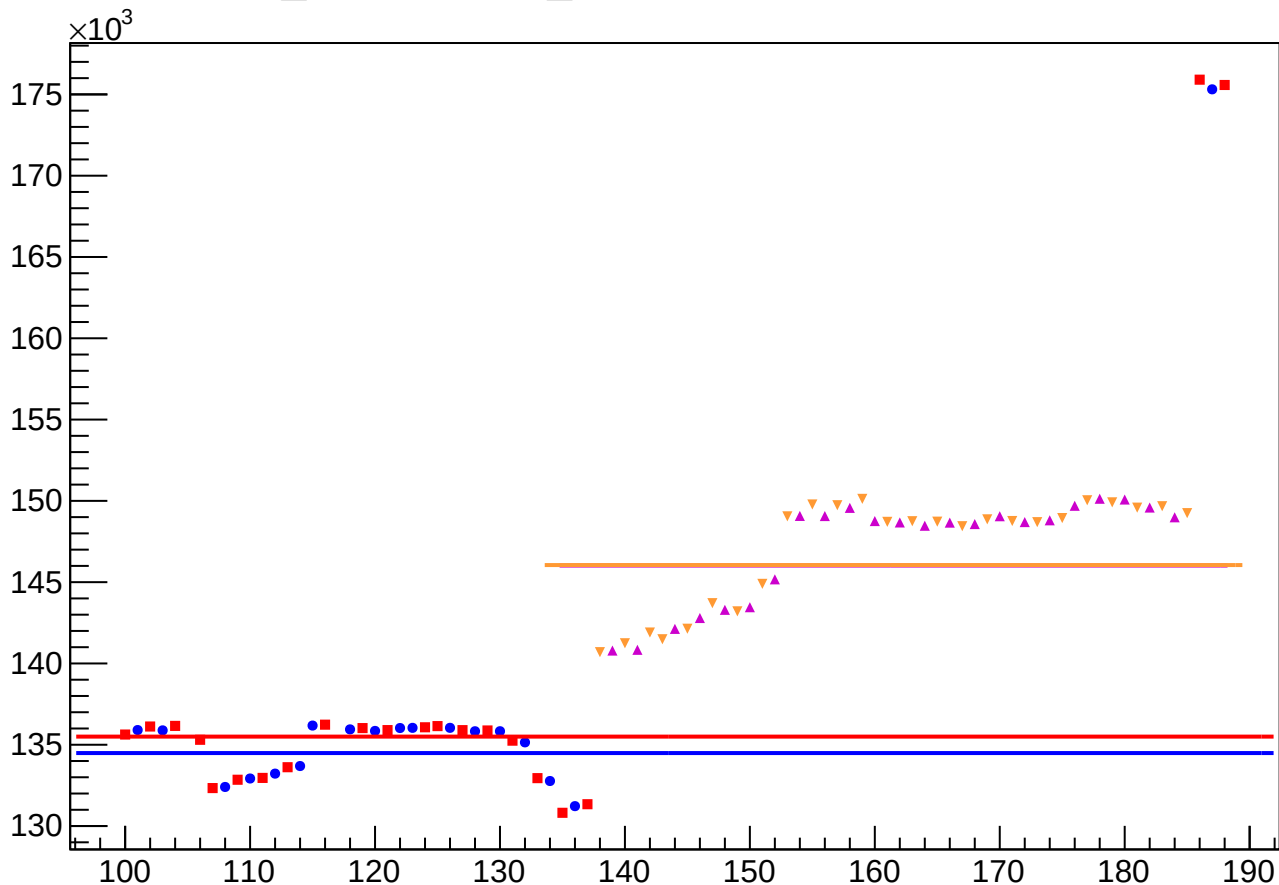
Right: 160.191+/-0.031 χ^2/NDF : 2792371.4/38

In: 186.827+/-0.028 χ^2/NDF : 2756109.5/40

Out: 183.785+/-0.026 χ^2/NDF : 3298186.9/45

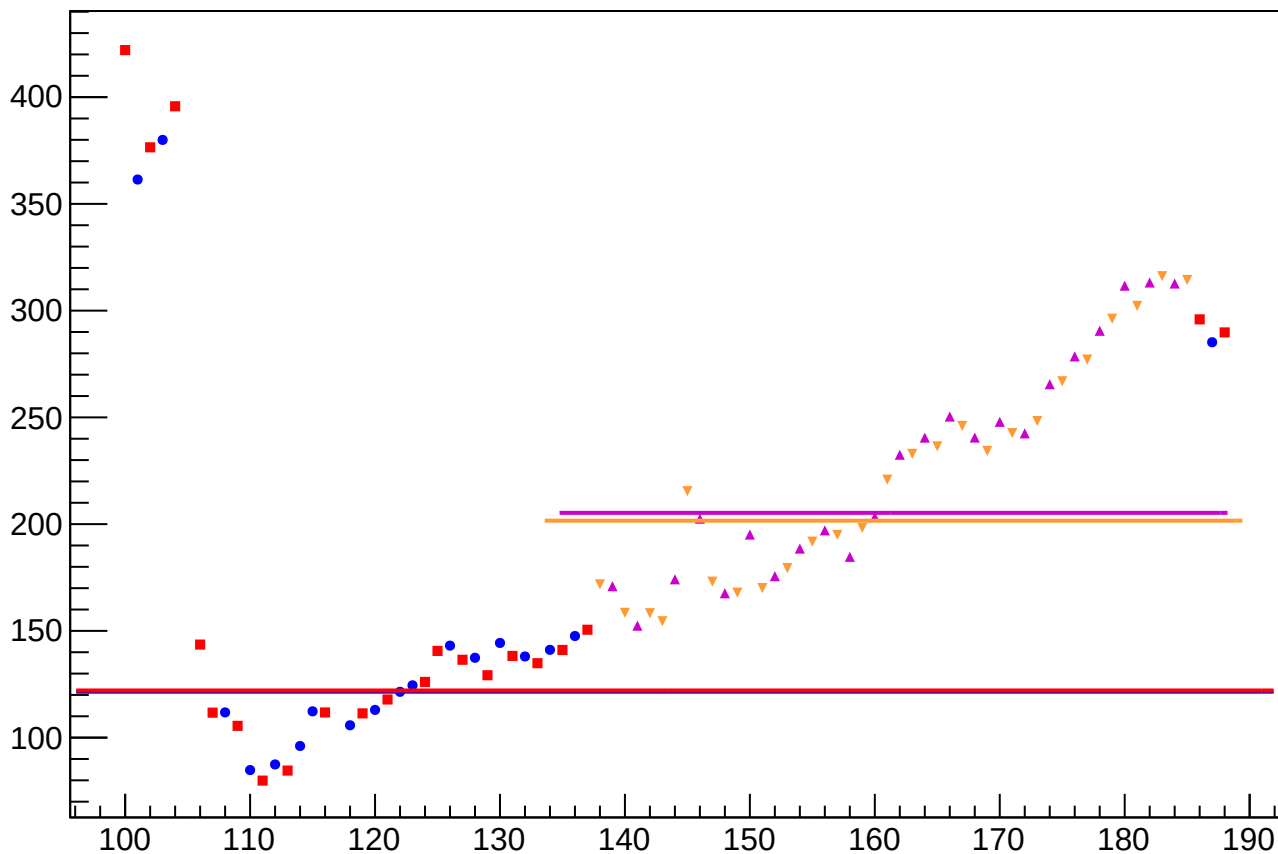
All: 185.207+/-0.019 χ^2/NDF : 6060630.3/86

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134488.933 $\pm$ 0.050	χ^2 /NDF: 4246589041.6/17	Left: 146036.626 $\pm$ 0.035	χ^2 /NDF: 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2 /NDF: 5403300123.1/24	Right: 135032.959 $\pm$ 0.034	χ^2 /NDF: 30362174810.0
Right Out: 135500.950 $\pm$ 0.047	χ^2 /NDF: 25897801822.1/20	In: 140211.840 $\pm$ 0.036	χ^2 /NDF: 34941900933.7/4
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 140590.744 $\pm$ 0.034	χ^2 /NDF: 55994792332.4
		All: 140412.961 $\pm$ 0.024	χ^2 /NDF: 909965393

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 121.522+/-0.036 χ^2/NDF : 1564882.6/17

Left Out: 201.632+/-0.034 χ^2/NDF : 1589564.0/24

Right Out: 122.091+/-0.033 χ^2/NDF : 2414816.8/20

Left In: 205.286+/-0.036 χ^2/NDF : 1425292.7/22

Left: 203.372+/-0.025 χ^2/NDF : 3020309.5/47

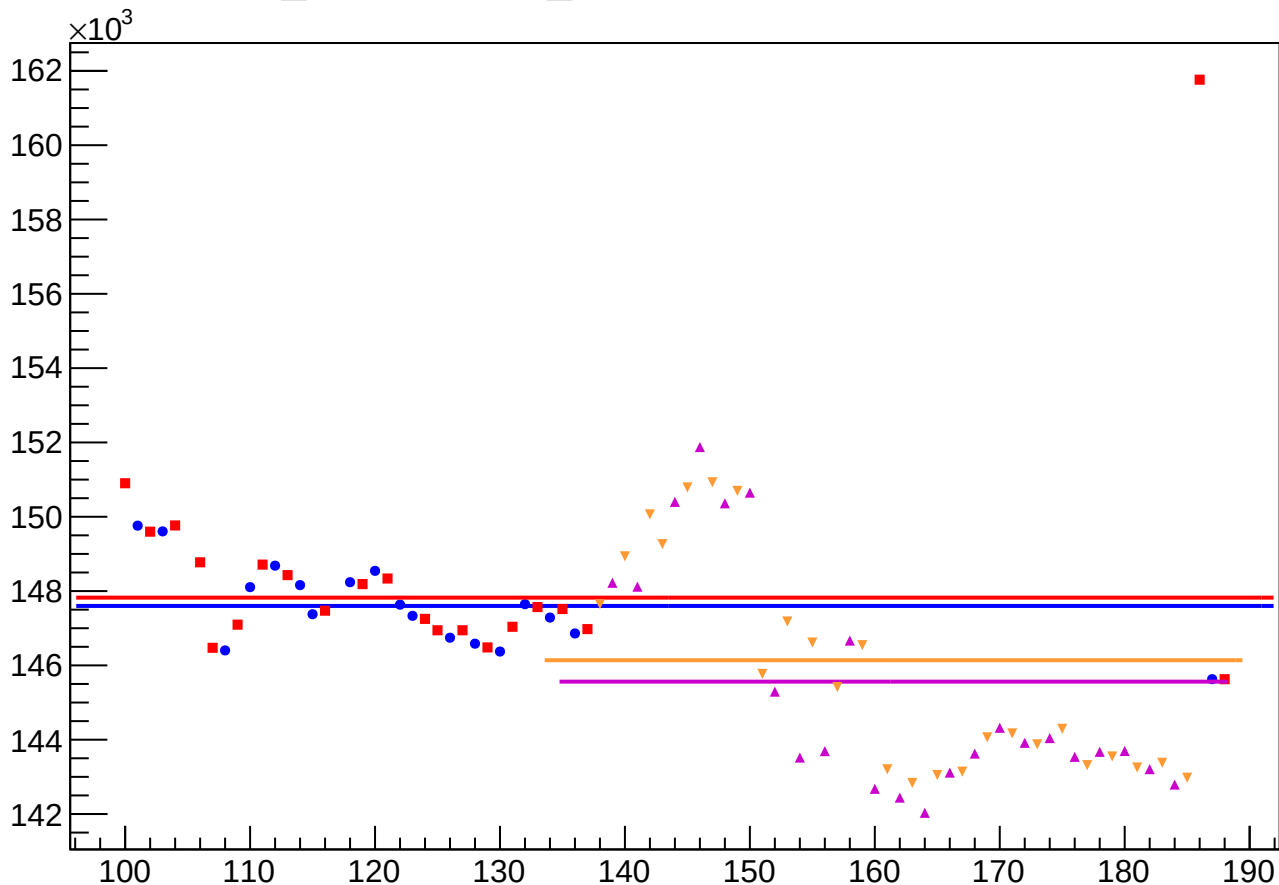
Right: 121.828+/-0.024 χ^2/NDF : 3979837.3/38

In: 163.094+/-0.025 χ^2/NDF : 5745143.2/40

Out: 160.462+/-0.024 χ^2/NDF : 6811256.3/45

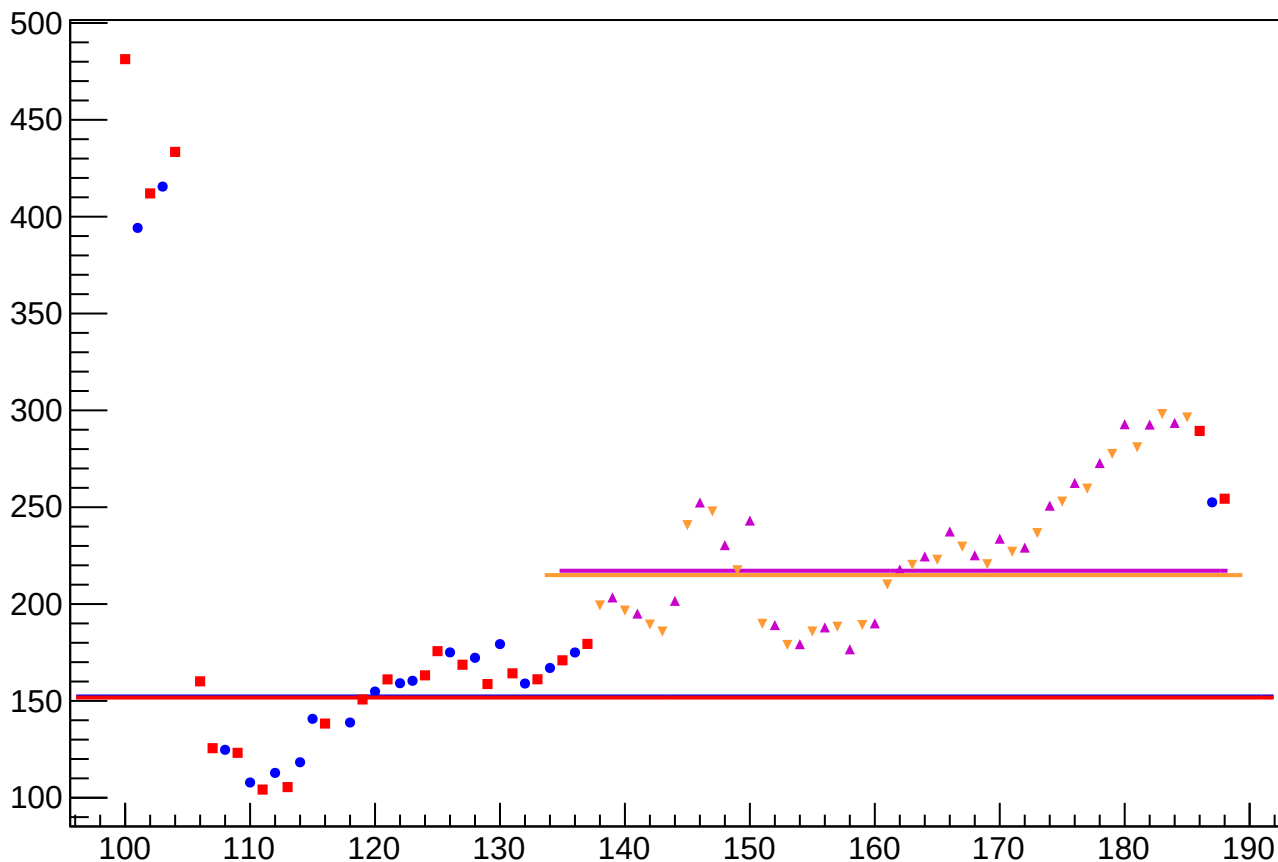
All: 161.697+/-0.017 χ^2/NDF : 12562175.2/86

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147600.024 $\pm$ 0.062	χ^2 /NDF: 207831024.2/17	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: 147722.527 $\pm$ 0.042	χ^2 /NDF: 1367495189.4/4
Right Out: 147823.735 $\pm$ 0.057	χ^2 /NDF: 1152602742.6/20	In: 146419.220 $\pm$ 0.040	χ^2 /NDF: 3882429360.0/40
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 146892.200 $\pm$ 0.038	χ^2 /NDF: 4341523029.3/4
		All: 146671.053 $\pm$ 0.028	χ^2 /NDF: 82969385

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 152.289 $\pm$ 0.044 χ^2 /NDF: 1307665.0/17

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 151.733 $\pm$ 0.040 χ^2 /NDF: 1856575.7/20

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

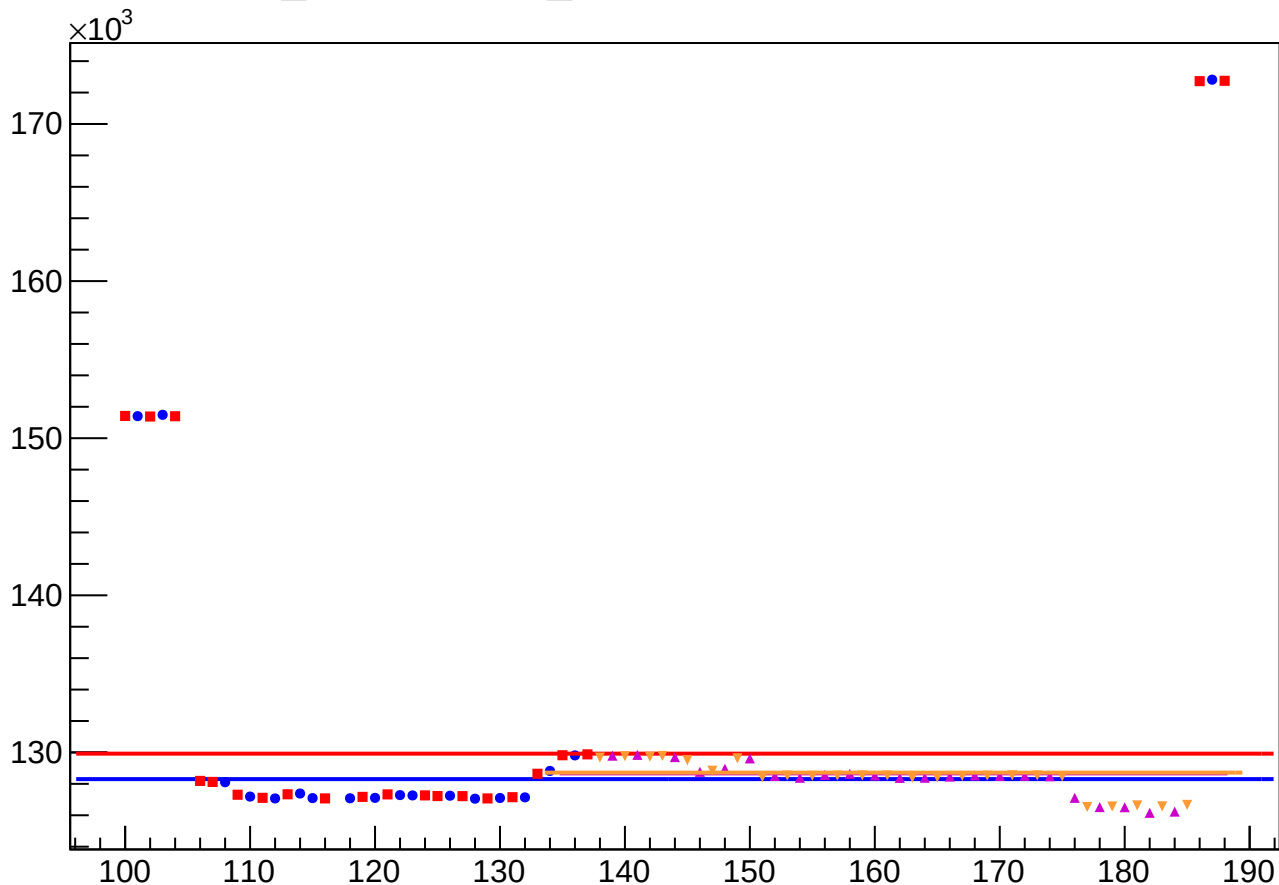
Right: 151.985 $\pm$ 0.030 χ^2 /NDF: 3164328.0/38

In: 189.907 $\pm$ 0.029 χ^2 /NDF: 3330846.4/40

Out: 186.691 $\pm$ 0.027 χ^2 /NDF: 3963479.2/45

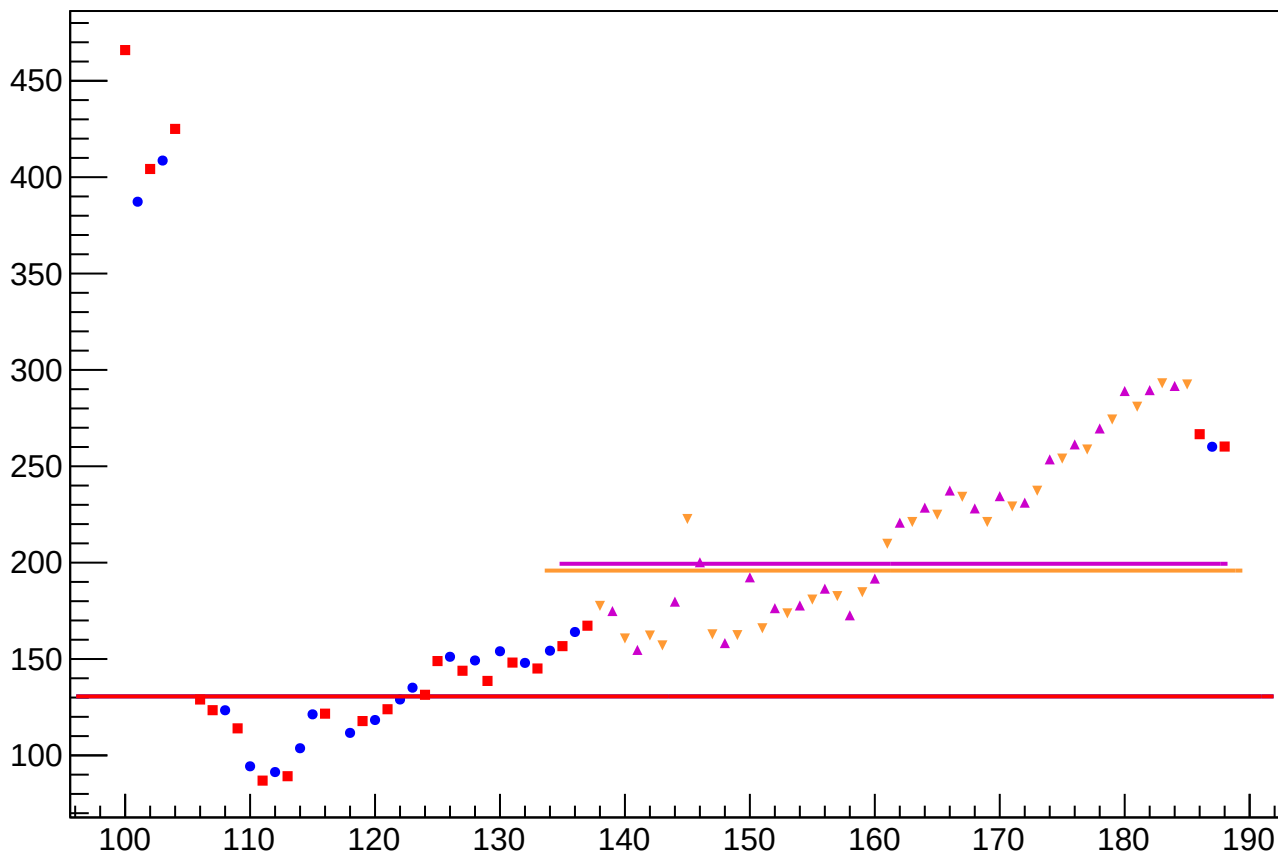
All: 188.195 $\pm$ 0.020 χ^2 /NDF: 7301071.5/86

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128301.264+/-0.054	χ^2/NDF : 8761051550.8/17	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 129186.353+/-0.036	χ^2/NDF : 48162049783.5
Right Out: 129921.838+/-0.049	χ^2/NDF : 38909793127.0/20	In: 128502.006+/-0.036	χ^2/NDF : 9119254597.5/40
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 129285.968+/-0.034	χ^2/NDF : 39574355803.5
		All: 128920.829+/-0.025	χ^2/NDF : 489428475

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 130.617 $\pm$ 0.038 χ^2/NDF : 1558933.5/17

Left Out: 195.883 $\pm$ 0.033 χ^2/NDF :1313361.5/24

Right Out: 130.594 $\pm$ 0.035 χ^2/NDF : 2189574.9/20

Left In: 199.413 $\pm$ 0.035 χ^2/NDF :1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2/NDF : 2484502.8/47

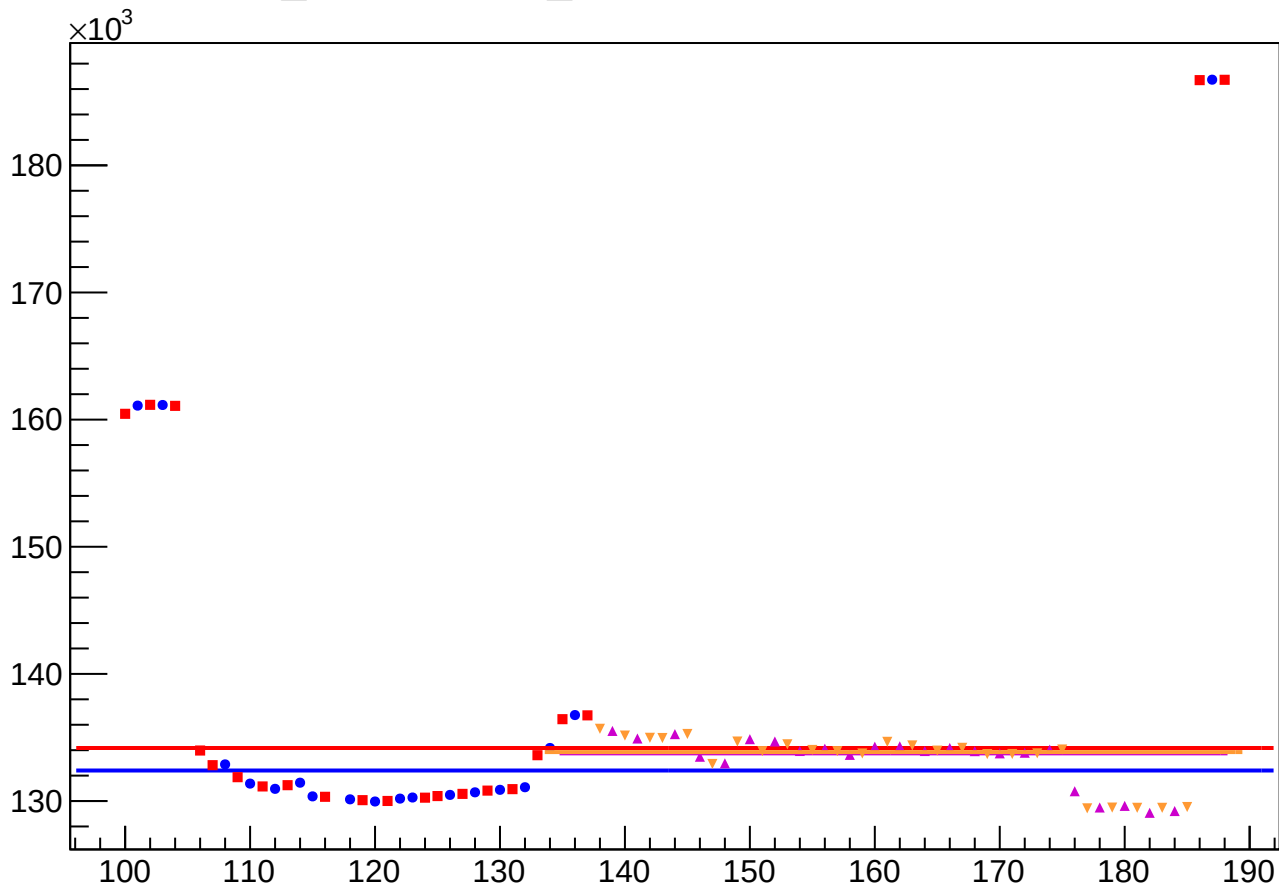
Right: 130.604 $\pm$ 0.026 χ^2/NDF : 3748508.6/38

In: 168.376 $\pm$ 0.026 χ^2/NDF :4503848.5/40

Out: 164.980 $\pm$ 0.024 χ^2/NDF :5353374.1/45

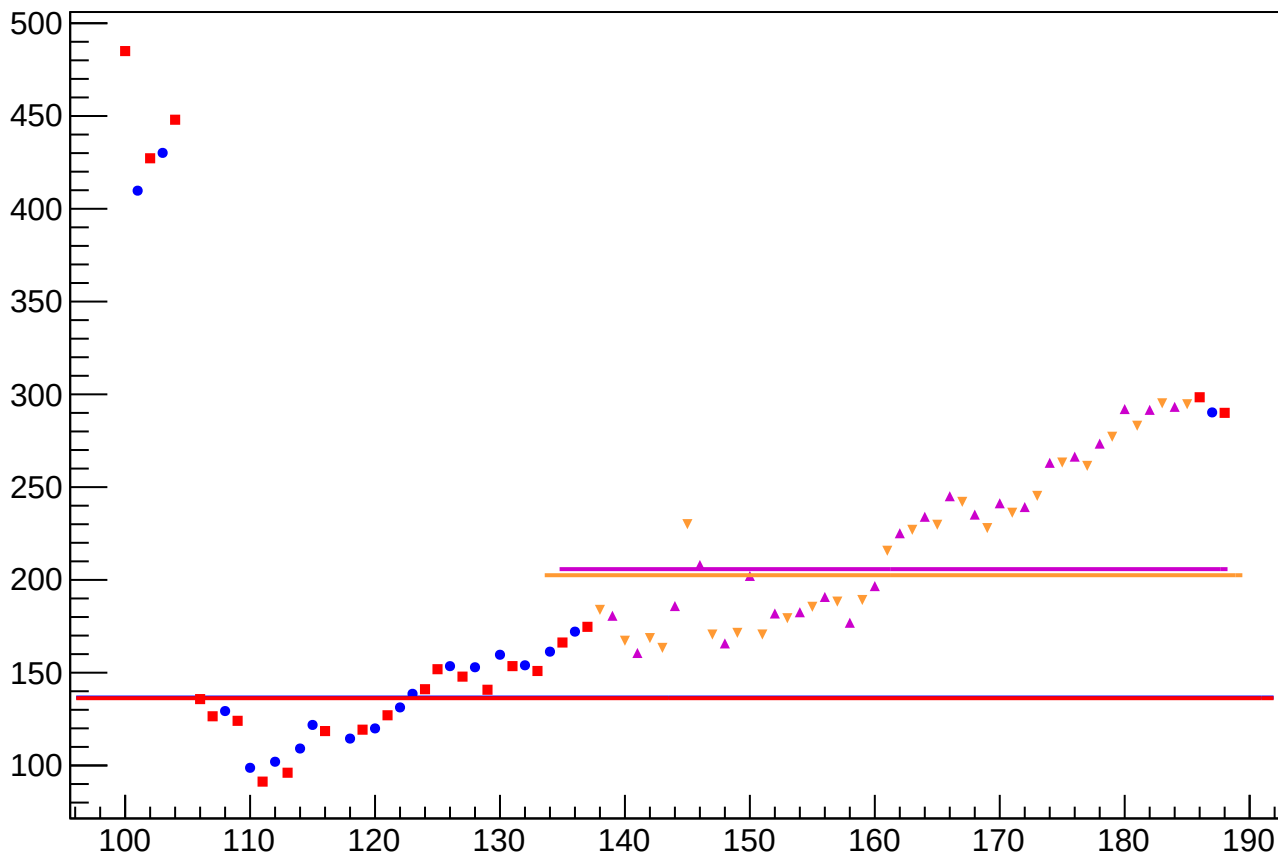
All: 166.561 $\pm$ 0.018 χ^2/NDF : 9866577.1/86

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132401.703 $\pm$ 0.056 χ^2 /NDF: 12044446837.5/17
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right: 133367.753 $\pm$ 0.038 χ^2 /NDF: 60736379682.5/17
 In: 133150.221 $\pm$ 0.038 χ^2 /NDF: 13315153066.1/4
 Right Out: 134171.933 $\pm$ 0.052 χ^2 /NDF: 48155244969.3/20
 Out: 134000.696 $\pm$ 0.035 χ^2 /NDF: 49256097721.0/17
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 All: 133603.943 $\pm$ 0.026 χ^2 /NDF: 628435750.0/17

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 136.611 $\pm$ 0.040 χ^2 /NDF: 1527520.5/17

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 136.255 $\pm$ 0.036 χ^2 /NDF: 2246315.2/20

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

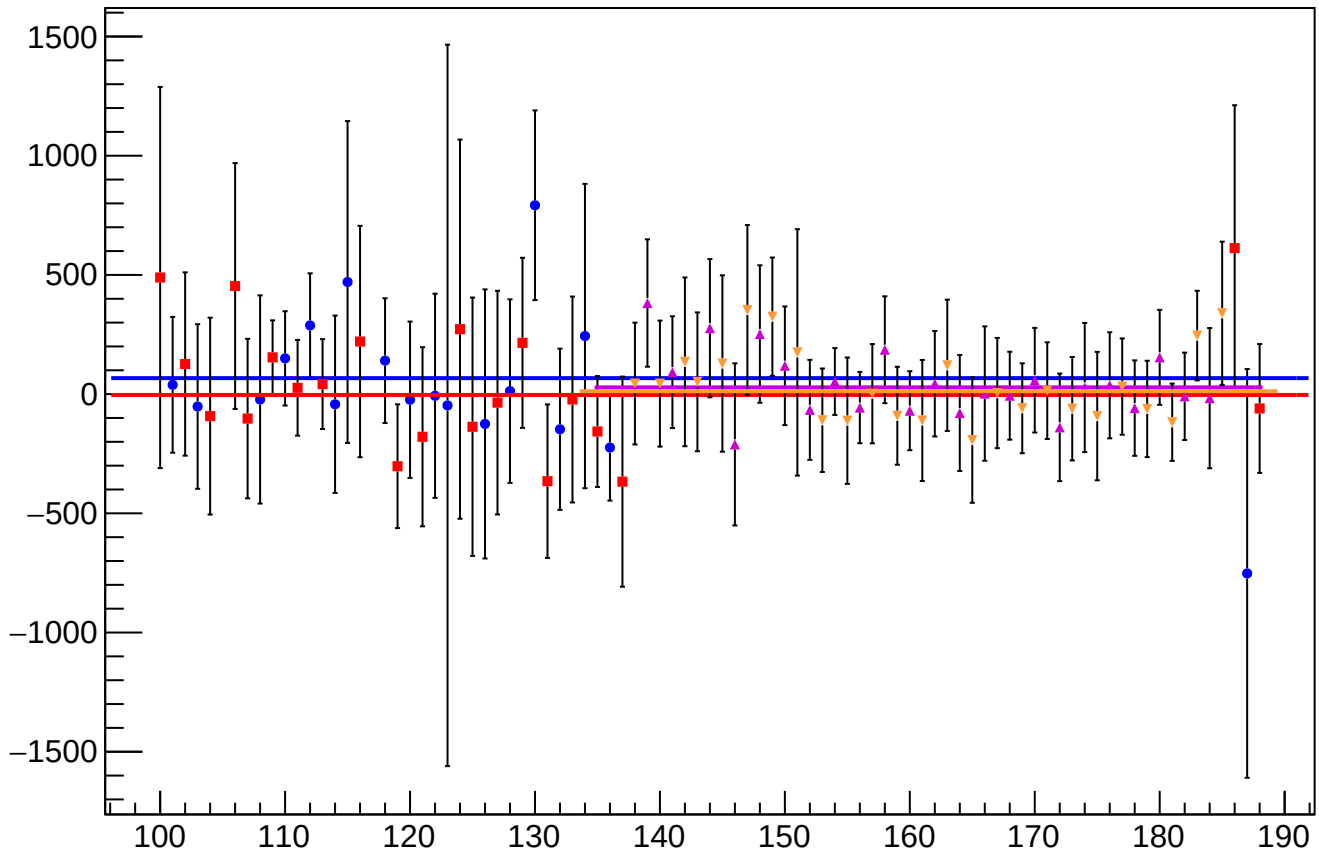
Right: 136.417 $\pm$ 0.027 χ^2 /NDF: 3773879.0/38

In: 175.037 $\pm$ 0.027 χ^2 /NDF:4290740.5/40

Out: 171.570 $\pm$ 0.025 χ^2 /NDF:5222930.2/45

All: 173.187 $\pm$ 0.018 χ^2 /NDF: 9522721.2/86

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 67.041+/-78.896 χ^2/NDF : 8.6/17

Left Out: 12.180+/-47.531 χ^2/NDF : 8.6/24

Right Out: -3.430+/-67.404 χ^2/NDF : 8.3/20

Left In: 28.452+/-44.688 χ^2/NDF : 6.7/22

Left: 20.817+/-32.558 χ^2/NDF : 15.3/47

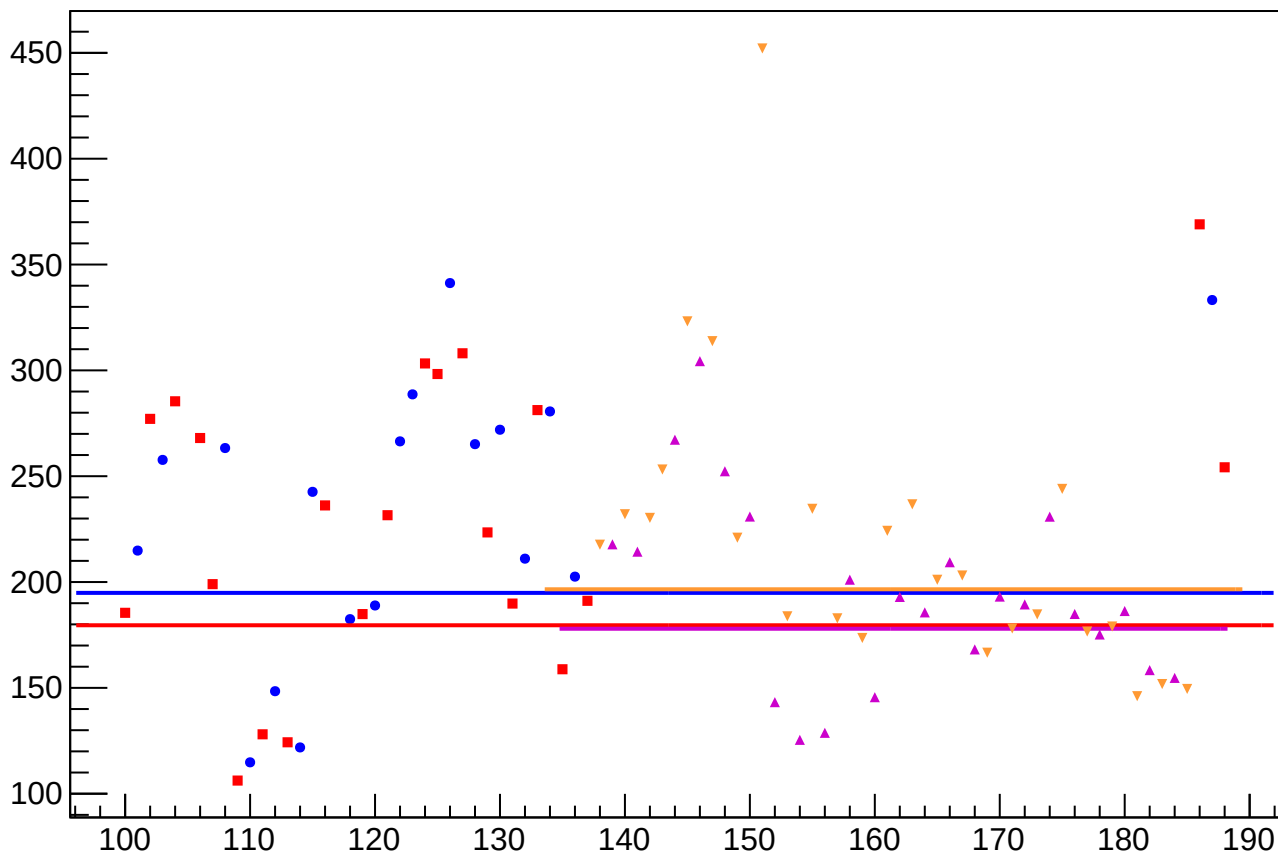
Right: 26.304+/-51.248 χ^2/NDF : 17.4/38

In: 37.825+/-38.884 χ^2/NDF : 15.4/40

Out: 6.996+/-38.844 χ^2/NDF : 16.9/45

All: 22.395+/-27.481 χ^2/NDF : 32.7/86

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 194.877 $\pm$ 0.056 χ^2 /NDF: 1070573.5/17

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF: 1778719.0/24

Right Out: 179.578 $\pm$ 0.048 χ^2 /NDF: 1950612.9/20

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF: 1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

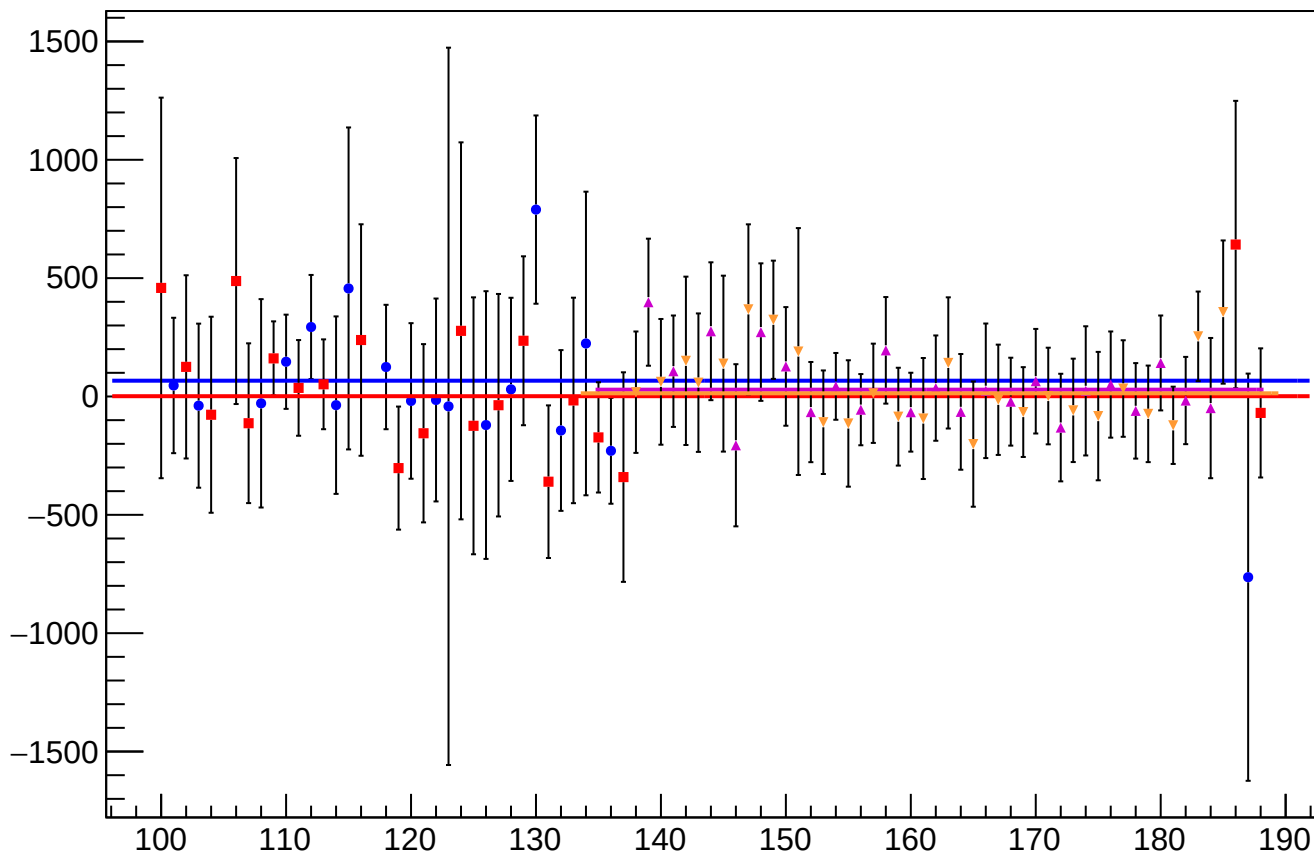
Right: 186.033 $\pm$ 0.036 χ^2 /NDF: 3064660.8/38

In: 182.049 $\pm$ 0.027 χ^2 /NDF: 2746193.8/40

Out: 190.931 $\pm$ 0.027 χ^2 /NDF: 3814285.2/45

All: 186.494 $\pm$ 0.019 χ^2 /NDF: 6612711.7/86

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 66.709+/-79.281 χ^2/NDF : 8.5/17

Left Out: 13.395+/-47.862 χ^2/NDF : 9.0/24

Right Out: 1.197+/-67.786 χ^2/NDF : 8.6/20

Left In: 28.806+/-44.980 χ^2/NDF : 6.8/22

Left: 21.578+/-32.777 χ^2/NDF : 15.9/47

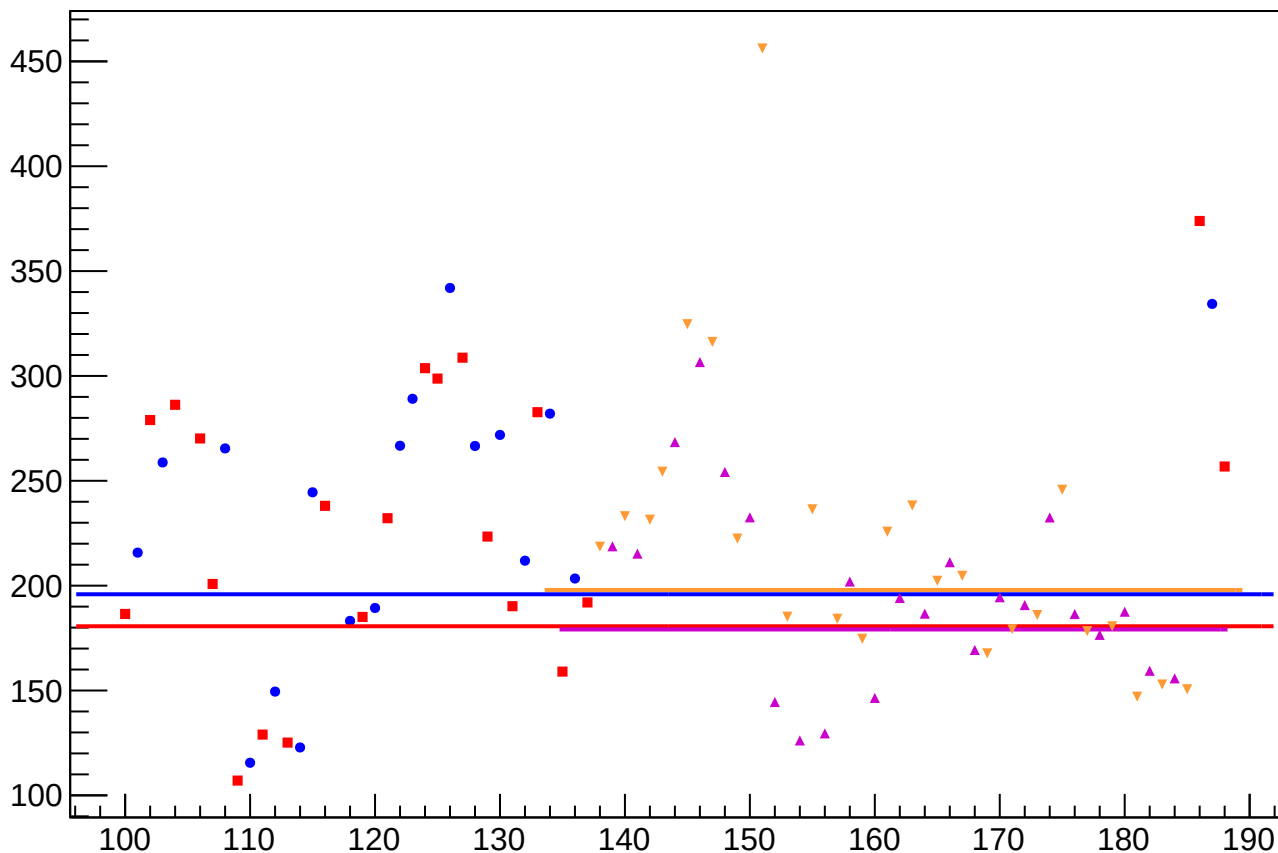
Right: 28.863+/-51.521 χ^2/NDF : 17.5/38

In: 38.035+/-39.122 χ^2/NDF : 15.5/40

Out: 9.336+/-39.098 χ^2/NDF : 17.6/45

All: 23.677+/-27.655 χ^2/NDF : 33.3/86

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 195.891 $\pm$ 0.056 χ^2 /NDF: 1061866.0/17

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 180.636 $\pm$ 0.048 χ^2 /NDF: 1944613.3/20

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

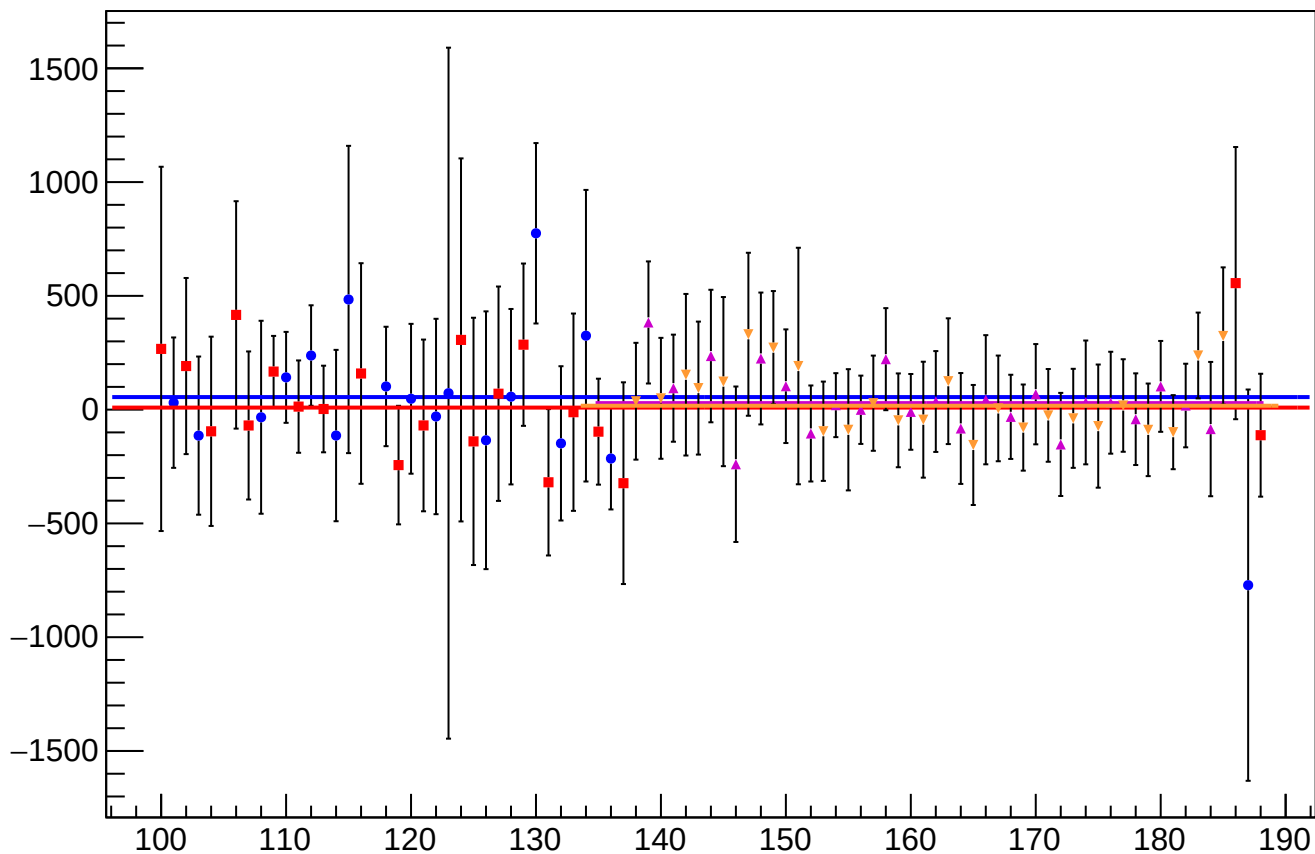
Right: 187.078 $\pm$ 0.036 χ^2 /NDF: 3049252.3/38

In: 183.181 $\pm$ 0.028 χ^2 /NDF:2734924.4/40

Out: 192.192 $\pm$ 0.028 χ^2 /NDF:3806234.4/45

All: 187.689 $\pm$ 0.020 χ^2 /NDF: 6594242.8/86

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 55.197 $\pm$ 79.277 χ^2 /NDF: 8.2/17

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: 8.995 $\pm$ 67.660 χ^2 /NDF: 6.9/20

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

Left: 23.256 $\pm$ 32.690 χ^2 /NDF: 13.2/47

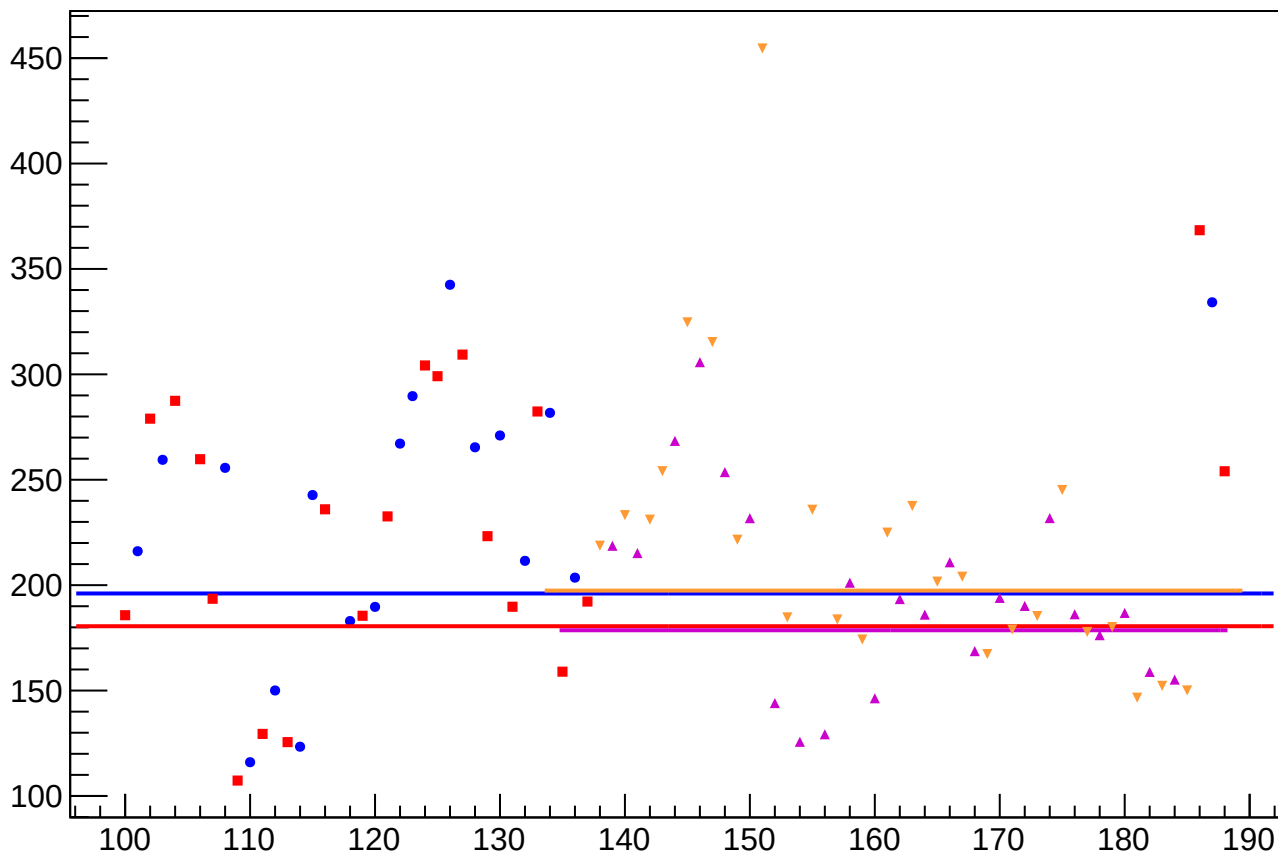
Right: 28.466 $\pm$ 51.465 χ^2 /NDF: 15.3/38

In: 35.093 $\pm$ 39.042 χ^2 /NDF: 14.4/40

Out: 14.434 $\pm$ 39.006 χ^2 /NDF: 14.0/45

All: 24.754 $\pm$ 27.594 χ^2 /NDF: 28.5/86

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 196.053 $\pm$ 0.056 χ^2/NDF : 1039608.4/17

Left Out: 197.422 $\pm$ 0.034 χ^2/NDF : 1780261.9/24

Right Out: 180.521 $\pm$ 0.048 χ^2/NDF : 1907942.5/20

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

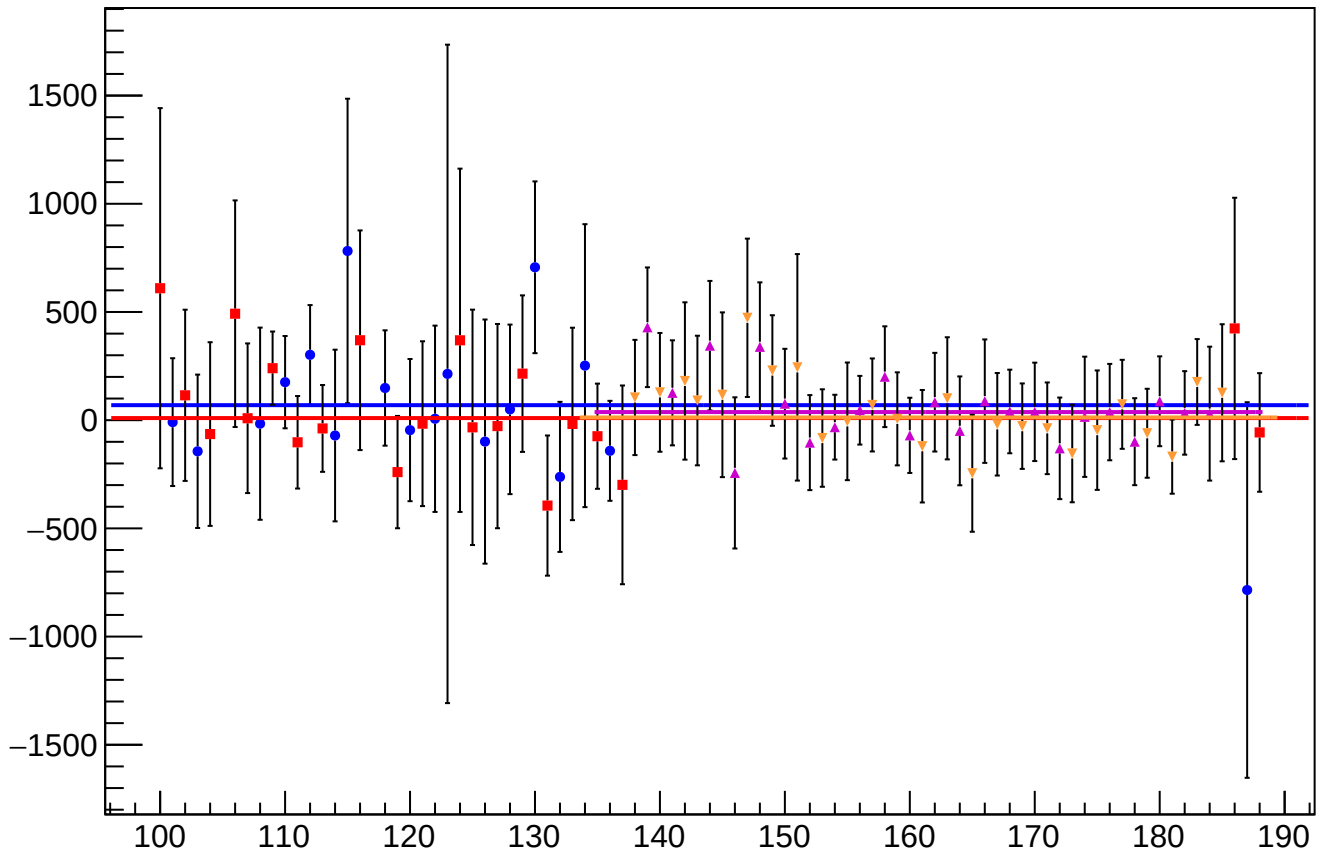
Right: 187.067 $\pm$ 0.036 χ^2/NDF : 2991965.9/38

In: 182.834 $\pm$ 0.028 χ^2/NDF : 2722018.2/40

Out: 191.805 $\pm$ 0.028 χ^2/NDF : 3771517.3/45

All: 187.323 $\pm$ 0.020 χ^2/NDF : 6546379.8/86

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 69.384+/-81.733 χ^2/NDF : 8.6/17

Left Out: 12.632+/-49.242 χ^2/NDF : 7.5/24

Right Out: 9.723+/-70.352 χ^2/NDF : 8.3/20

Left In: 37.460+/-46.479 χ^2/NDF : 7.6/22

Left: 25.762+/-33.800 χ^2/NDF : 15.3/47

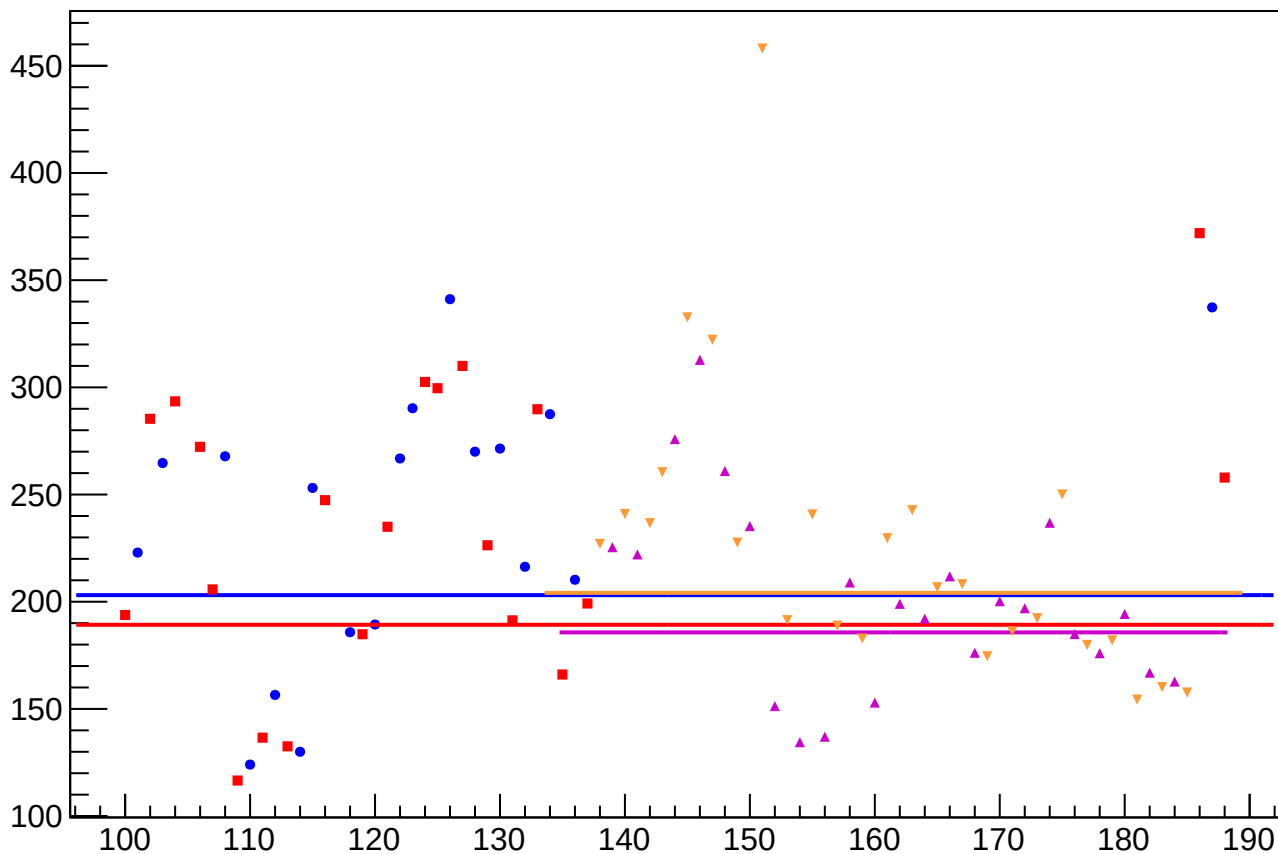
Right: 35.114+/-53.320 χ^2/NDF : 17.2/38

In: 45.261+/-40.403 χ^2/NDF : 16.3/40

Out: 11.676+/-40.342 χ^2/NDF : 15.8/45

All: 28.443+/-28.548 χ^2/NDF : 32.5/86

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 203.074 $\pm$ 0.058 χ^2/NDF : 932688.9/17

Left Out: 204.132 $\pm$ 0.035 χ^2/NDF : 1672287.6/24

Right Out: 189.237 $\pm$ 0.050 χ^2/NDF : 1703667.0/20

Left In: 185.694 $\pm$ 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2/NDF : 3268347.9/47

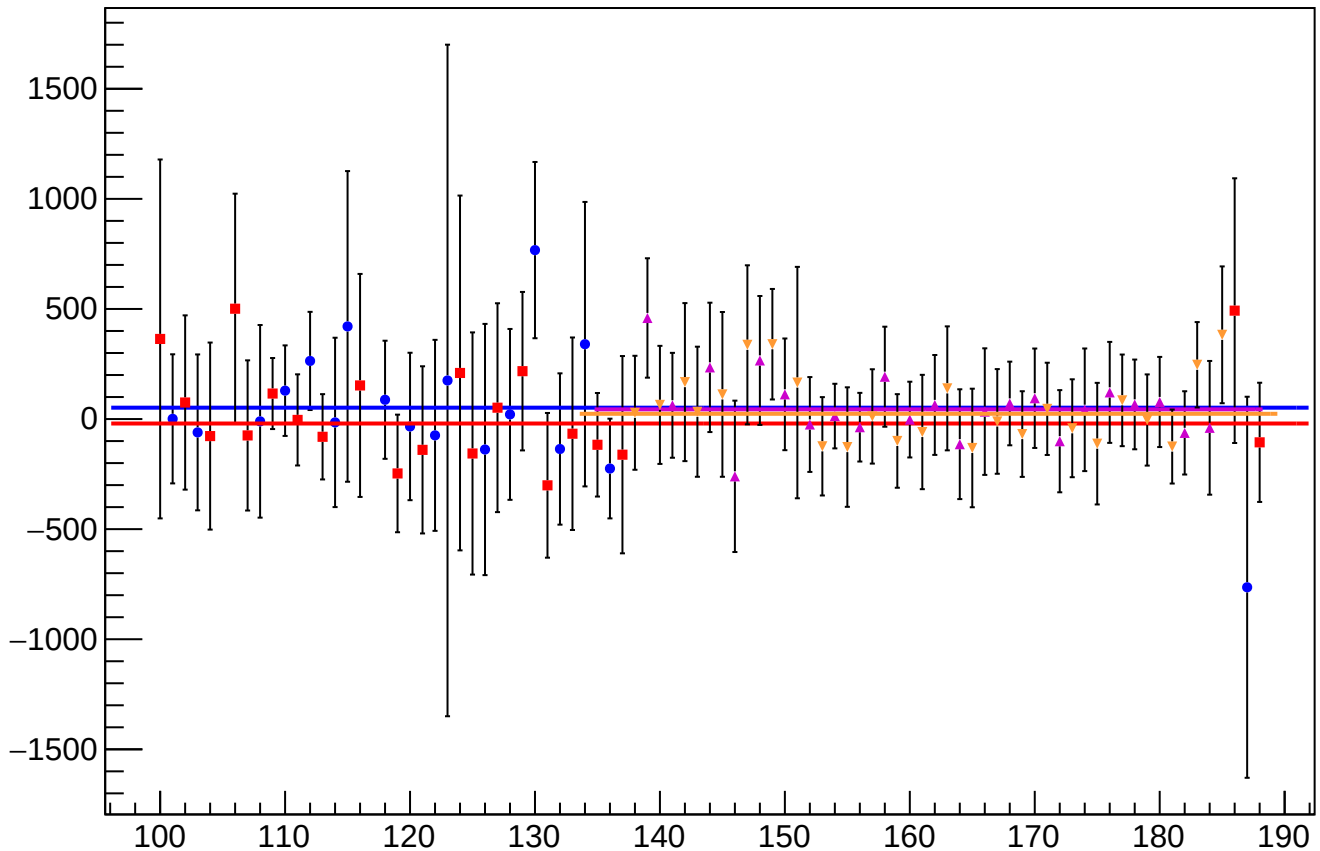
Right: 195.126 $\pm$ 0.038 χ^2/NDF : 2669284.1/38

In: 189.941 $\pm$ 0.029 χ^2/NDF : 2448797.0/40

Out: 199.234 $\pm$ 0.029 χ^2/NDF : 3436126.1/45

All: 194.594 $\pm$ 0.020 χ^2/NDF : 5937910.6/86

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 51.681 $\pm$ 80.683 χ^2 /NDF: 7.9/17

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -20.257 $\pm$ 69.013 χ^2 /NDF: 5.5/20

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

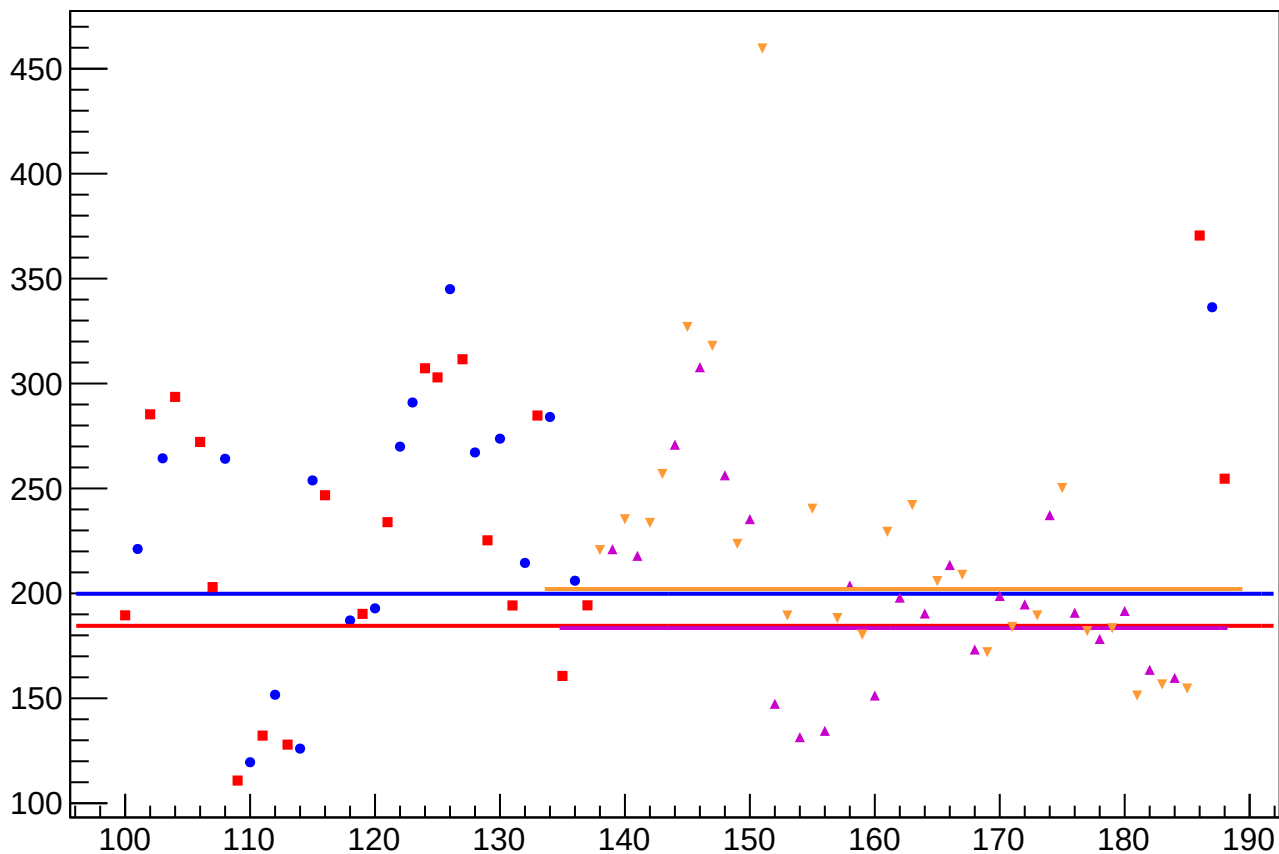
Right: 10.137 $\pm$ 52.445 χ^2 /NDF: 13.8/38

In: 45.867 $\pm$ 39.949 χ^2 /NDF:14.4/40

Out: 9.150 $\pm$ 39.835 χ^2 /NDF:14.2/45

All: 27.456 $\pm$ 28.208 χ^2 /NDF: 29.1/86

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 199.812 $\pm$ 0.057 χ^2 /NDF: 1015305.1/17

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 184.536 $\pm$ 0.049 χ^2 /NDF: 1867426.0/20

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

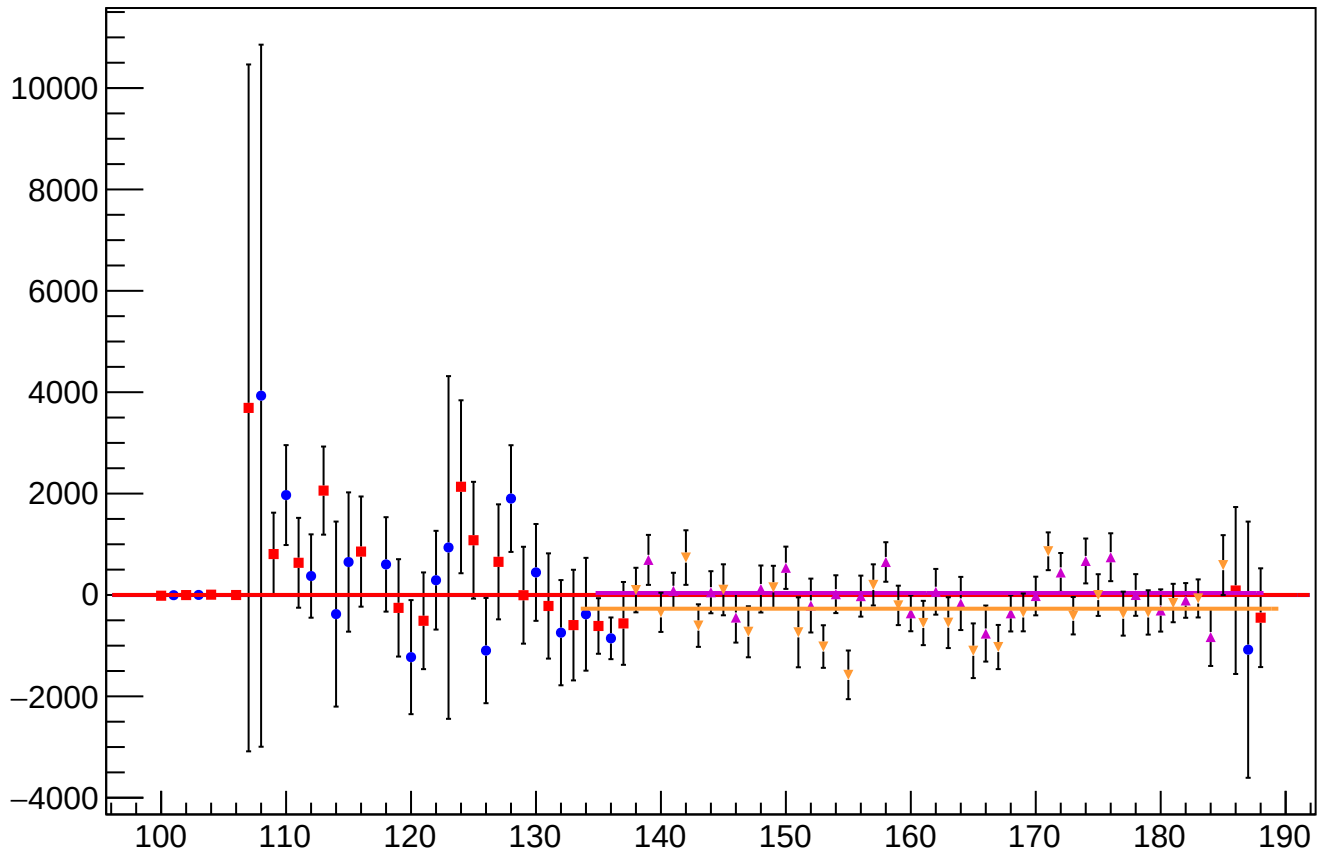
Right: 190.990 $\pm$ 0.037 χ^2 /NDF: 2924136.1/38

In: 187.498 $\pm$ 0.028 χ^2 /NDF:2560411.4/40

Out: 196.235 $\pm$ 0.028 χ^2 /NDF:3646407.3/45

All: 191.879 $\pm$ 0.020 χ^2 /NDF: 6254790.3/86

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.6/17

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.724 ± 2.111 χ^2/NDF : 19.3/20

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

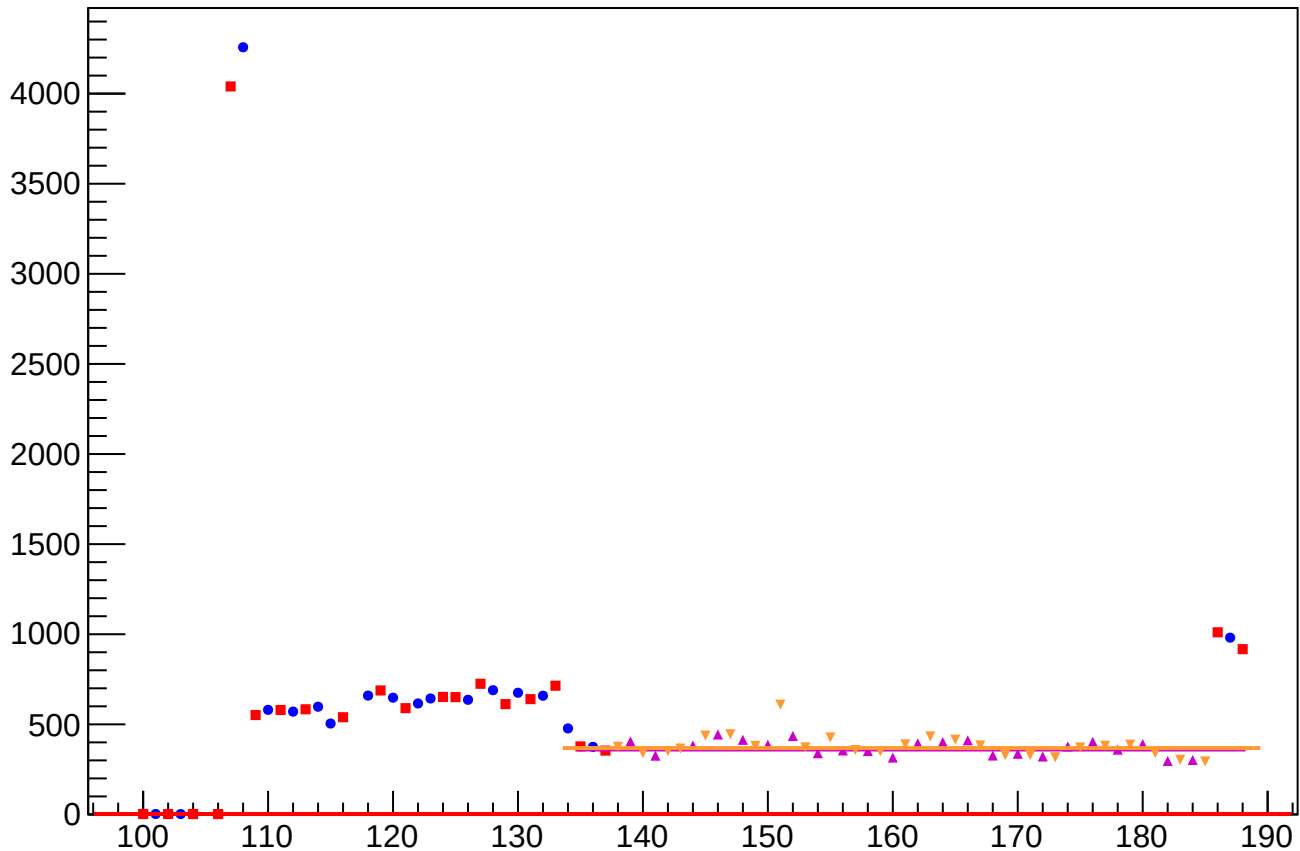
Right: -0.331 ± 1.540 χ^2/NDF : 37.5/38

In: -1.504 ± 2.251 χ^2/NDF : 38.1/40

Out: 0.564 ± 2.111 χ^2/NDF : 67.2/45

All: -0.404 ± 1.540 χ^2/NDF : 105.7/86

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 11108555.3/17

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.443+/-0.001 χ^2/NDF : 13614853.0/20

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

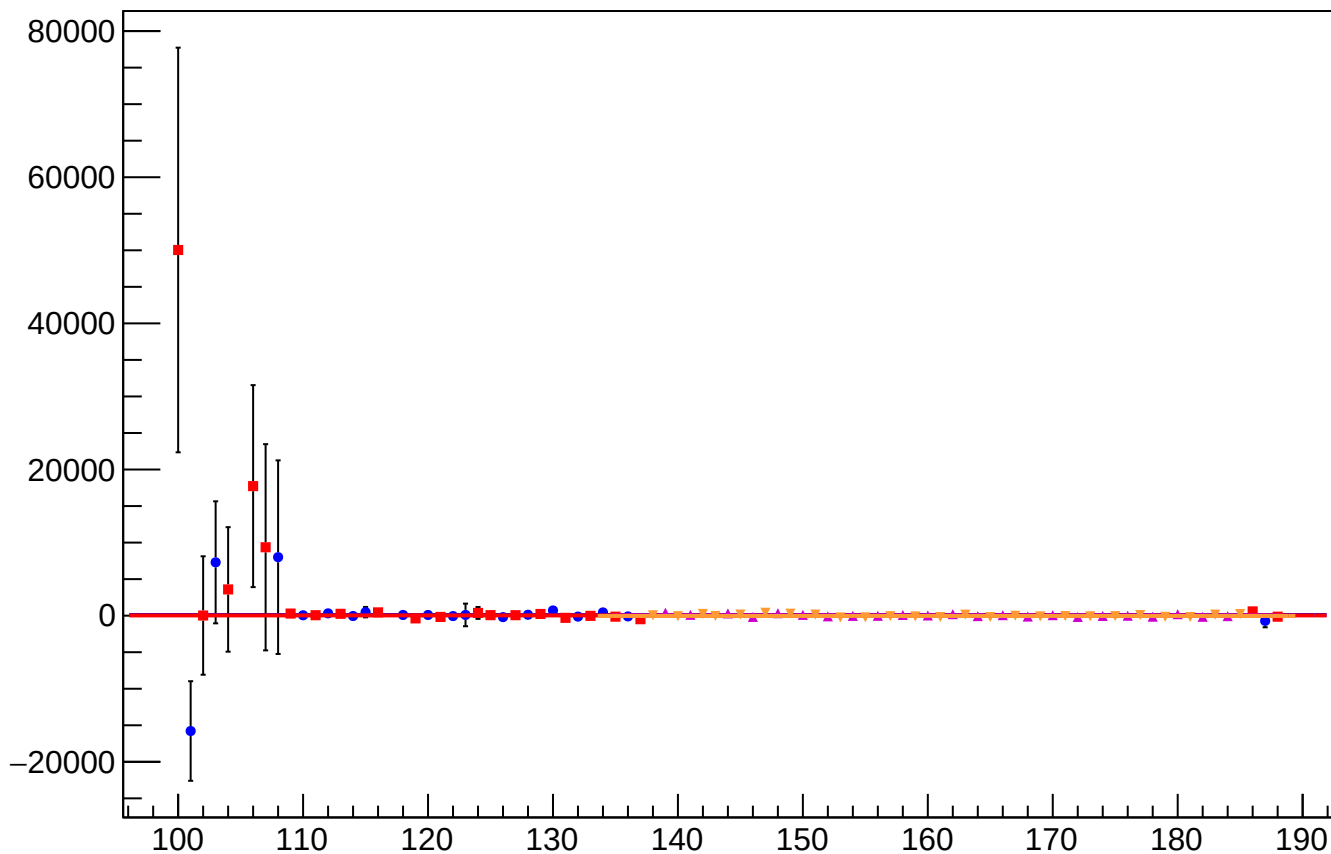
Right: 2.449+/-0.001 χ^2/NDF : 24723453.6/38

In: 2.693+/-0.002 χ^2/NDF : 44769635.6/40

Out: 2.658+/-0.001 χ^2/NDF : 49630226.7/45

All: 2.674+/-0.001 χ^2/NDF : 94400112.9/86

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 92.063+/-90.672 χ^2/NDF : 12.8/17

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 32.676+/-80.131 χ^2/NDF : 15.3/20

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

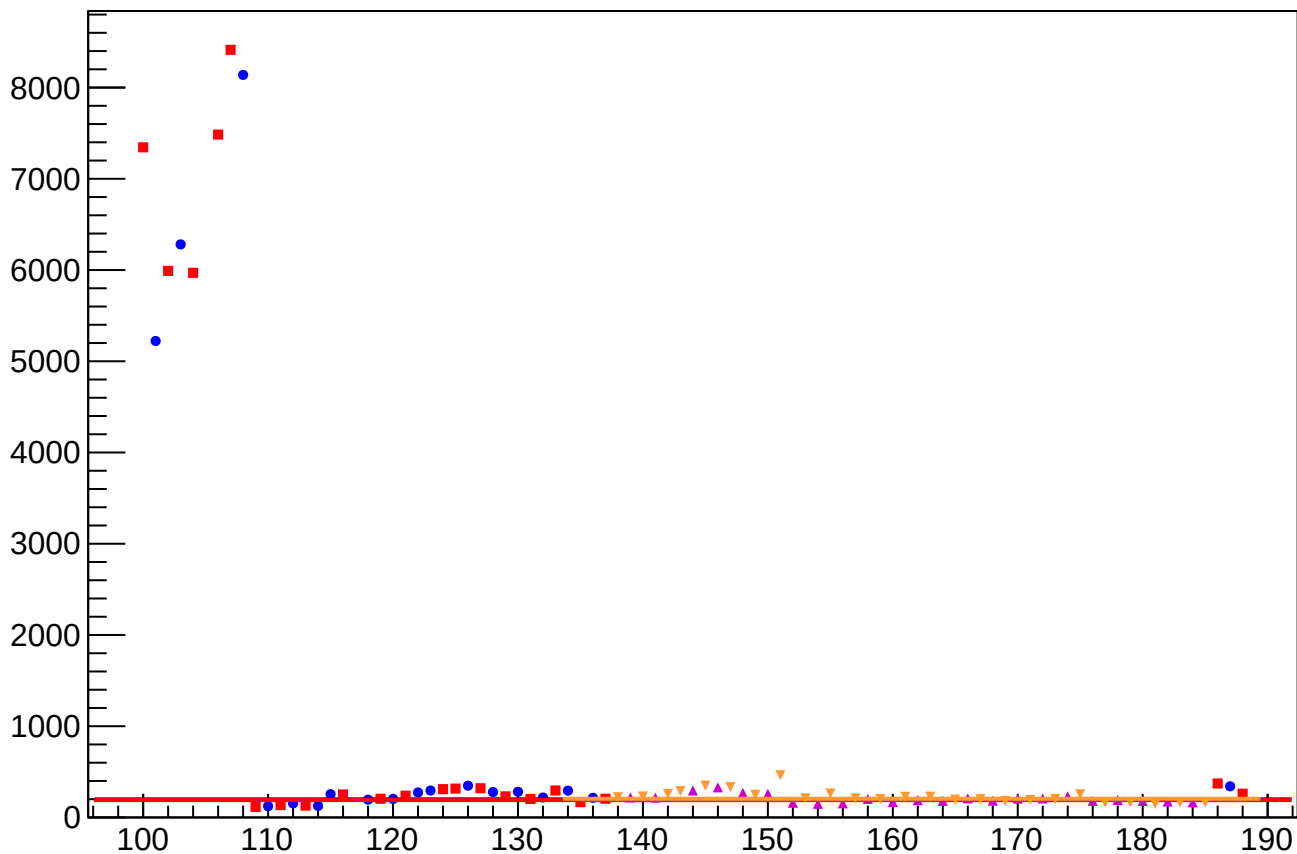
Right: 58.718+/-60.044 χ^2/NDF : 28.3/38

In: 42.259+/-42.537 χ^2/NDF : 22.4/40

Out: -18.415+/-42.191 χ^2/NDF : 25.1/45

All: 11.674+/-29.955 χ^2/NDF : 48.6/86

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 198.844 $\pm$ 0.064 χ^2 /NDF: 3749571.4/17

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 189.894 $\pm$ 0.057 χ^2 /NDF: 4656597.3/20

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

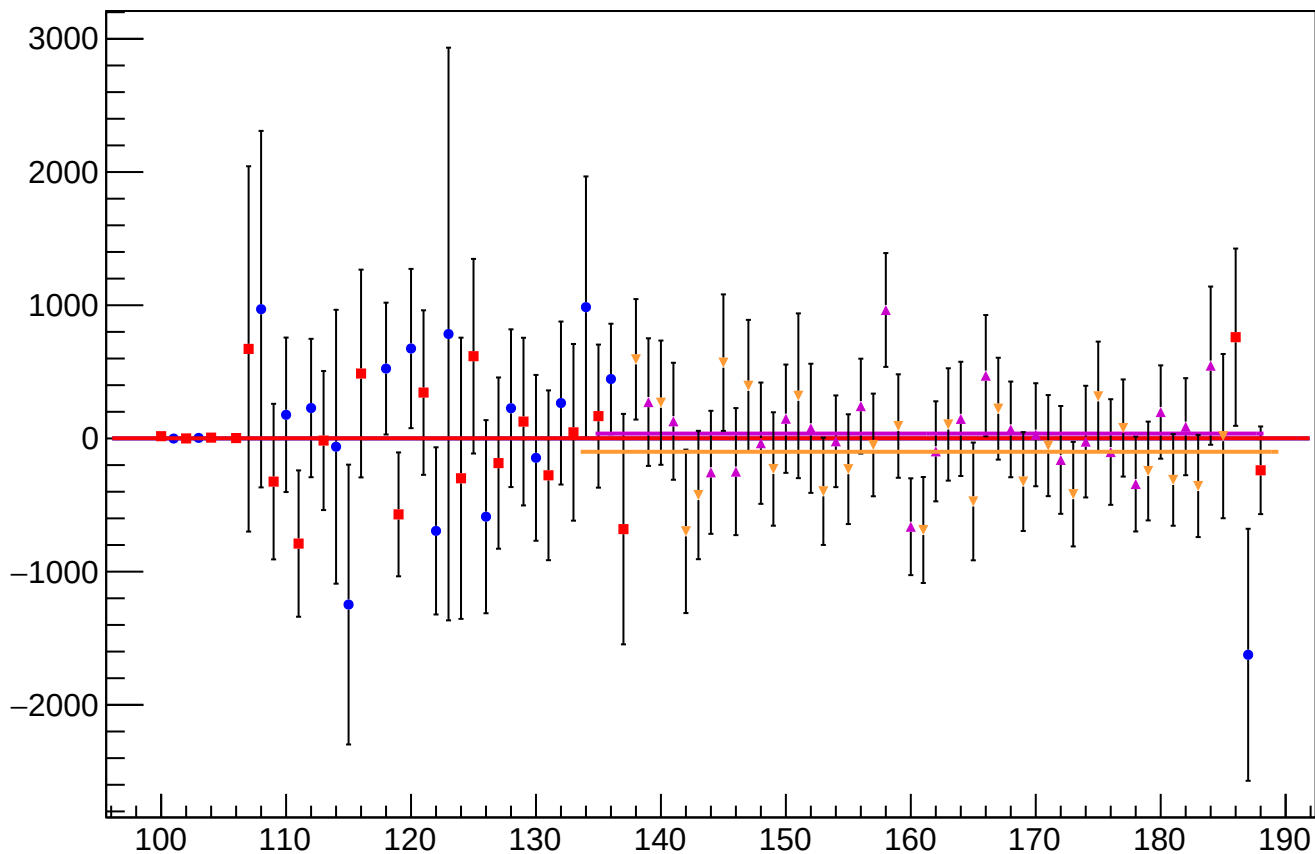
Right: 193.819 $\pm$ 0.042 χ^2 /NDF: 8417107.9/38

In: 194.602 $\pm$ 0.030 χ^2 /NDF:4927353.0/40

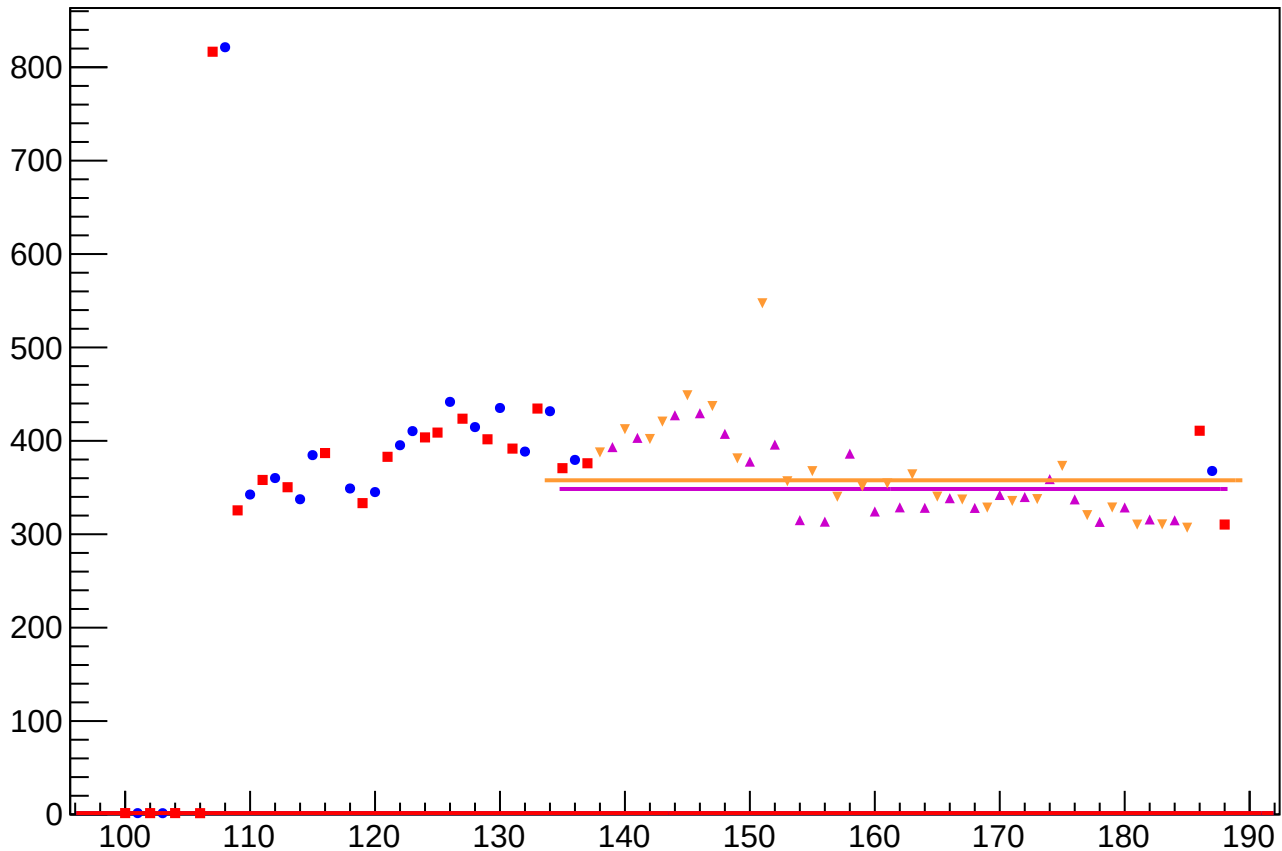
Out: 200.832 $\pm$ 0.030 χ^2 /NDF:6664194.9/45

All: 197.742 $\pm$ 0.021 χ^2 /NDF: 11613172.1/86

asym_cav4dQ_mean vs Slug, Sign Corrected



asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.454+/-0.001 χ^2/NDF : 11214484.2/17

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.461+/-0.001 χ^2/NDF : 13359418.7/20

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

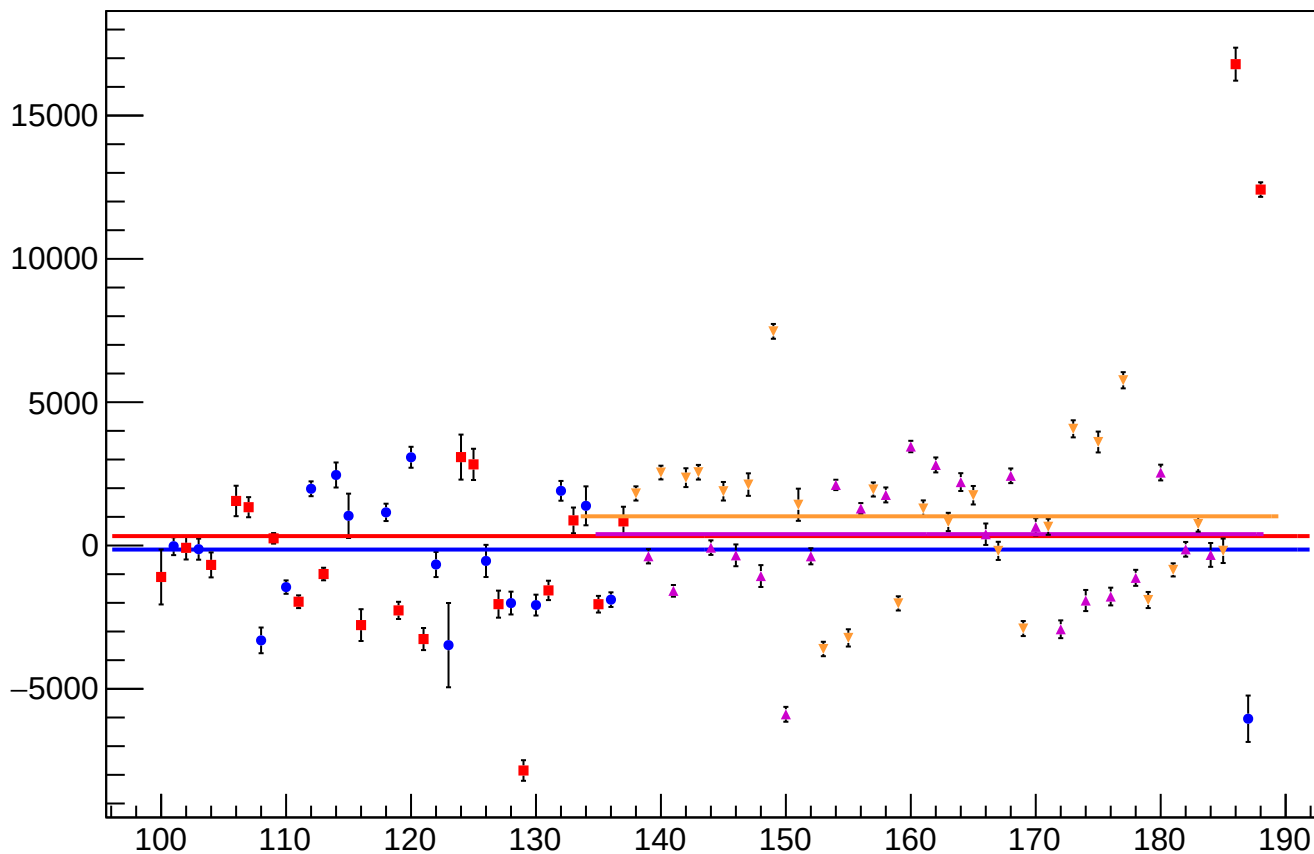
Right: 1.458+/-0.001 χ^2/NDF : 24573920.4/38

In: 1.600+/-0.001 χ^2/NDF : 45150105.6/40

Out: 1.593+/-0.001 χ^2/NDF : 49716751.0/45

All: 1.596+/-0.001 χ^2/NDF : 94866871.9/86

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -140.970 $\pm$ 87.252 χ^2 /NDF: 480.2/17

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: 328.265 $\pm$ 74.317 χ^2 /NDF: 4118.4/20

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

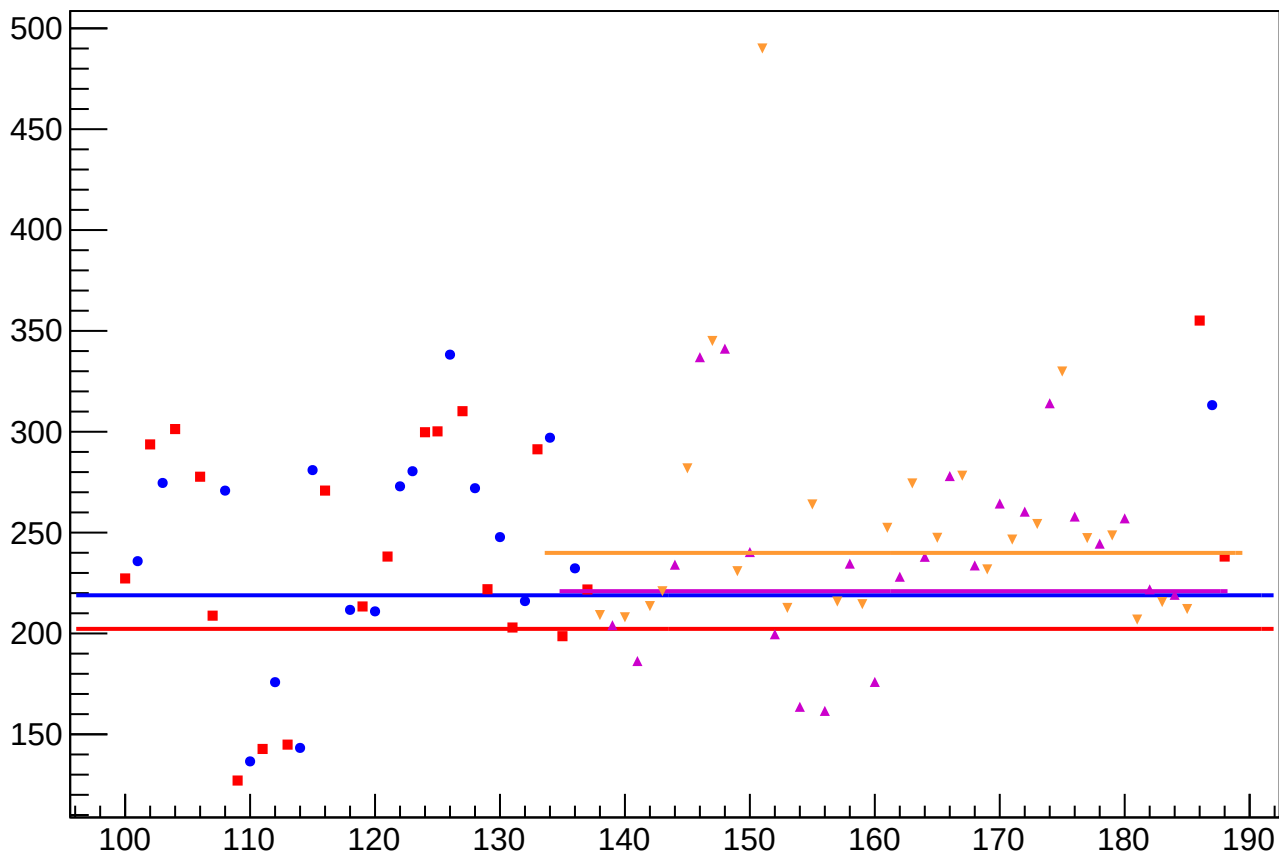
Right: 130.977 $\pm$ 56.576 χ^2 /NDF: 4615.3/38

In: 243.385 $\pm$ 46.582 χ^2 /NDF:2088.3/40

Out: 760.872 $\pm$ 45.429 χ^2 /NDF:6482.6/45

All: 508.616 $\pm$ 32.523 χ^2 /NDF: 8634.2/86

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 218.923 ± 0.062 χ^2/NDF : 688514.0/17

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 202.272 ± 0.053 χ^2/NDF : 1382755.3/20

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

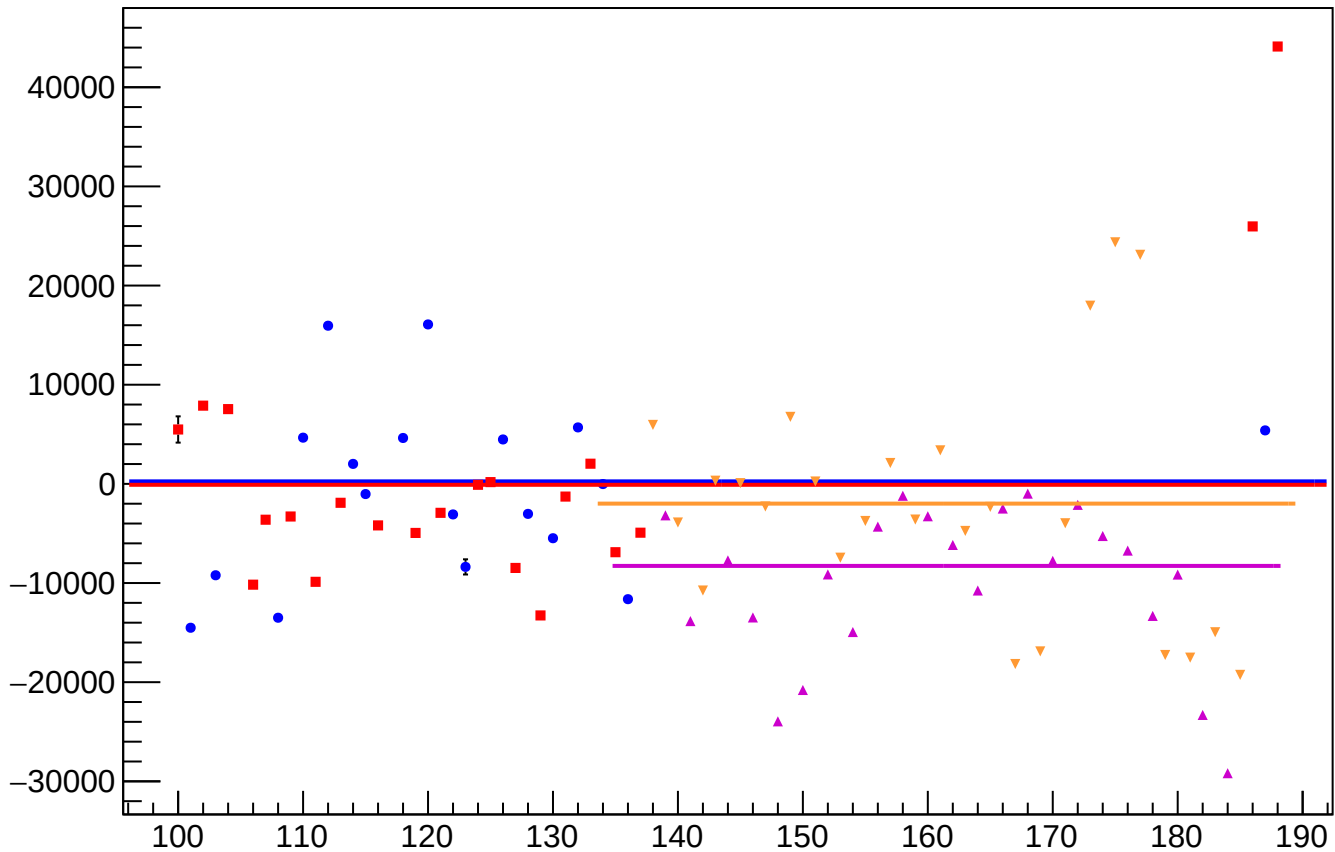
Right: 209.273 ± 0.040 χ^2/NDF : 2113484.7/38

In: 220.388 ± 0.033 χ^2/NDF : 2016982.9/40

Out: 225.866 ± 0.032 χ^2/NDF : 2705379.3/45

All: 223.195 ± 0.023 χ^2/NDF : 4736538.2/86

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 252.866 $\pm$ 54.505 χ^2/NDF : 30790.4/17

Left Out: -1991.788 $\pm$ 42.427 χ^2/NDF :63766.6/24

Right Out: -92.458 $\pm$ 49.674 χ^2/NDF : 79880.3/20

Left In: -8273.228 $\pm$ 44.301 χ^2/NDF :22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2/NDF : 97123.2/47

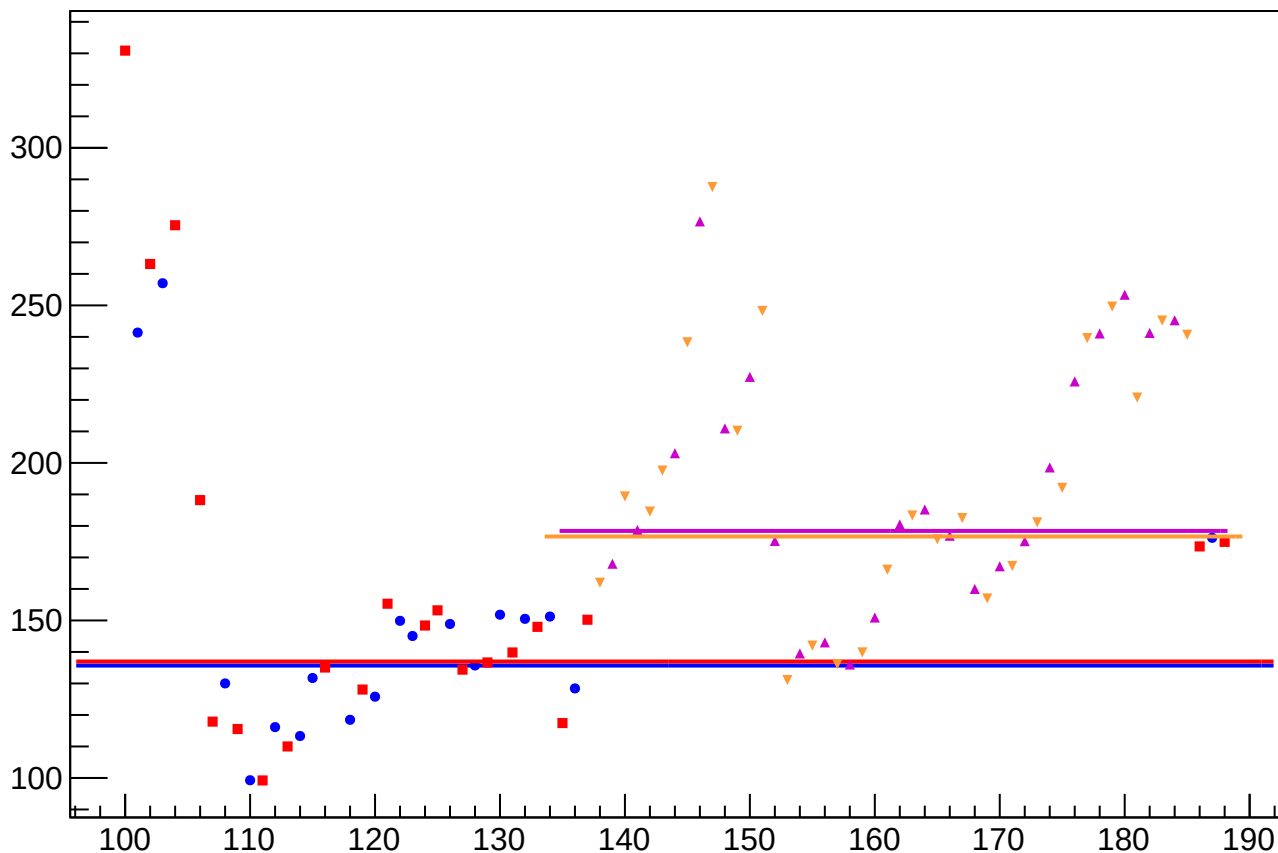
Right: 64.225 $\pm$ 36.714 χ^2/NDF : 110692.7/38

In: -4881.400 $\pm$ 34.378 χ^2/NDF :68395.7/40

Out: -1190.662 $\pm$ 32.261 χ^2/NDF :144492.2/45

All: -2918.920 $\pm$ 23.525 χ^2/NDF : 219016.5/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.683 $\pm$ 0.039 χ^2 /NDF: 673595.0/17

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 136.968 $\pm$ 0.035 χ^2 /NDF: 959093.6/20

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

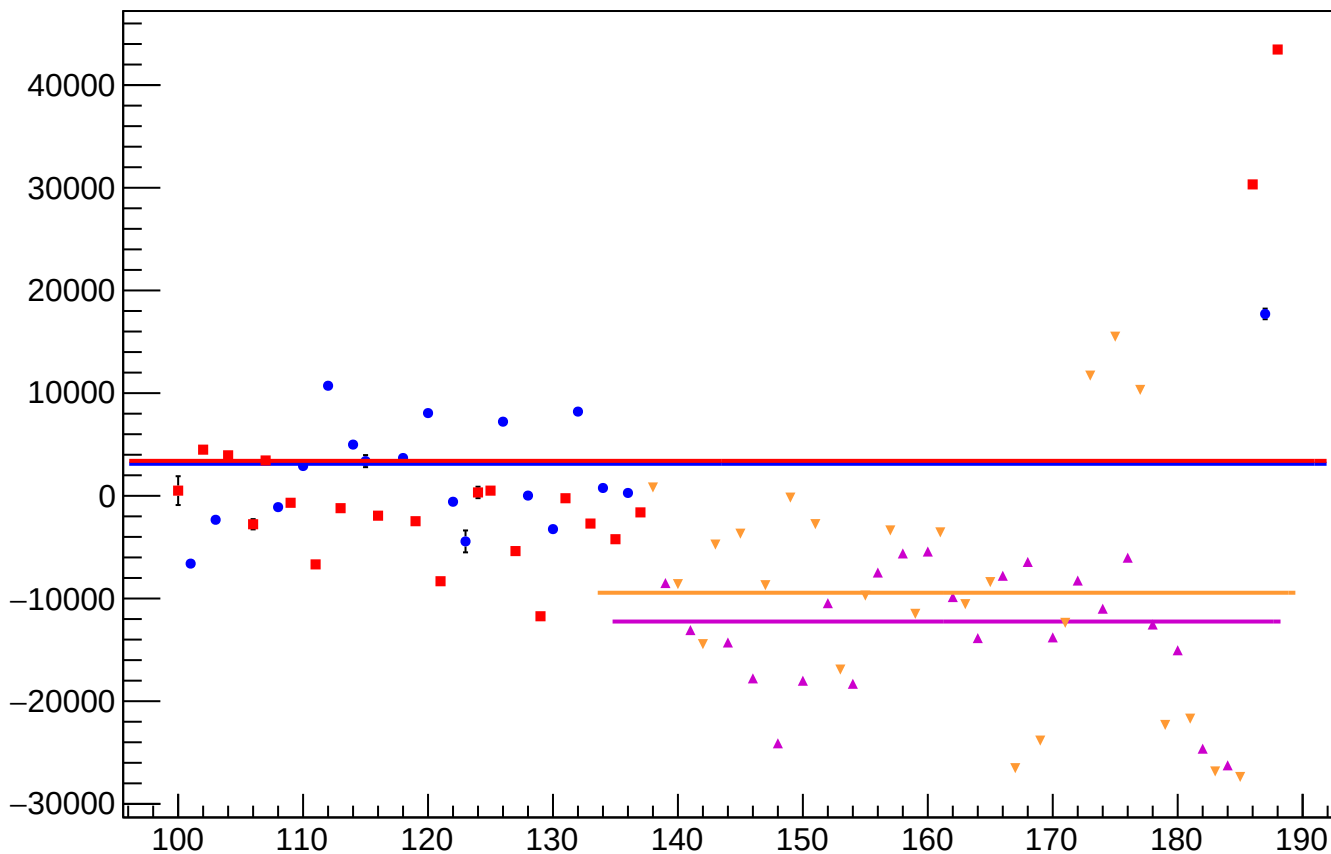
Right: 136.385 $\pm$ 0.026 χ^2 /NDF: 1633296.1/38

In: 161.414 $\pm$ 0.024 χ^2 /NDF:2707554.7/40

Out: 159.907 $\pm$ 0.023 χ^2 /NDF:3247770.3/45

All: 160.613 $\pm$ 0.017 χ^2 /NDF: 5957369.4/86

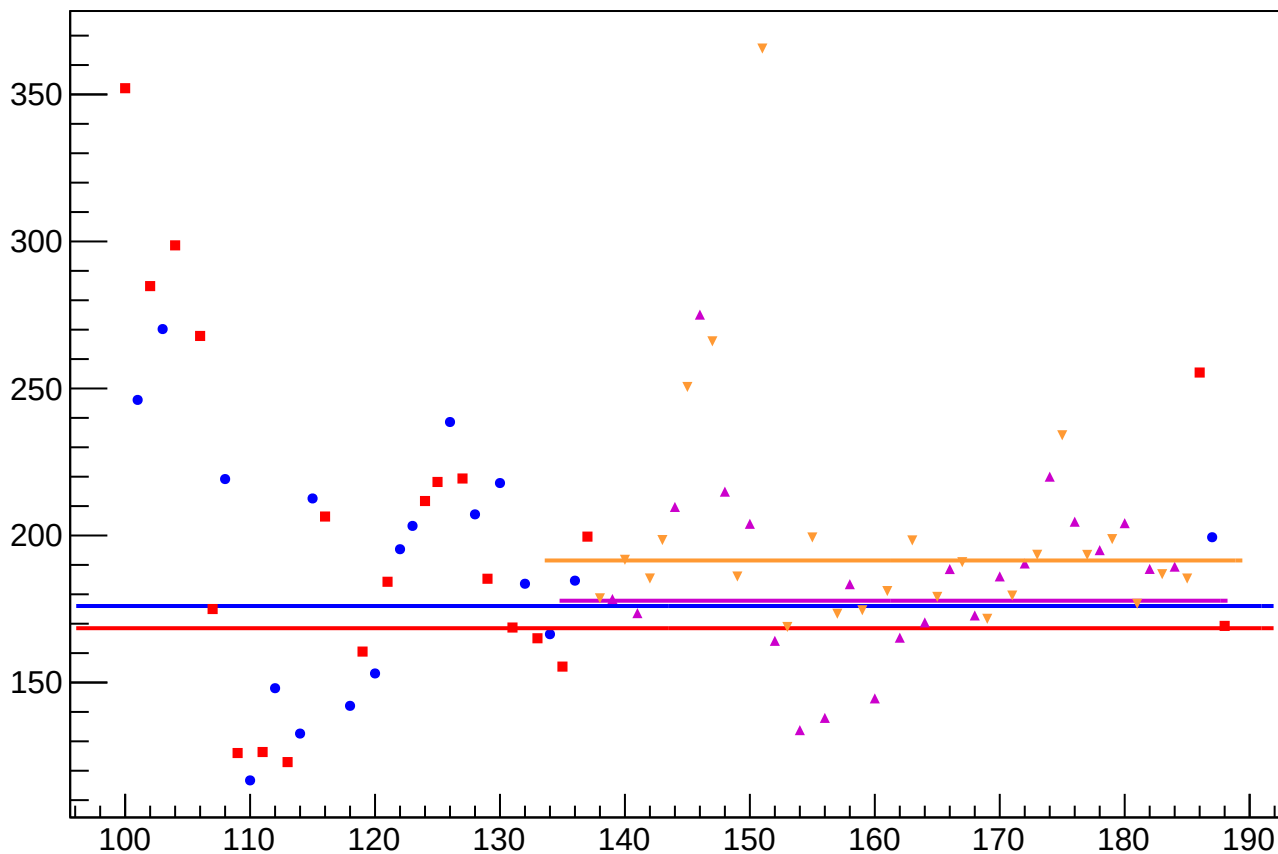
asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 3120.005 ± 70.238 $\chi^2/\text{NDF}: 4970.3/17$
 Left Out: -9437.408 ± 45.534 $\chi^2/\text{NDF}: 62220.4/24$
 Right Out: 3406.433 ± 61.030 $\chi^2/\text{NDF}: 65720.1/20$
 Left In: -12242.226 ± 43.944 $\chi^2/\text{NDF}: 16615.8/22$

Left: -10889.638 ± 31.621 $\chi^2/\text{NDF}: 80800.7/47$
 Right: 3283.213 ± 46.069 $\chi^2/\text{NDF}: 70699.8/38$
 In: -7920.540 ± 37.254 $\chi^2/\text{NDF}: 55965.6/40$
 Out: -4844.462 ± 36.496 $\chi^2/\text{NDF}: 156392.1/45$
 All: -6350.880 ± 26.070 $\chi^2/\text{NDF}: 215836.8/8$

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.021 $\pm$ 0.050 χ^2/NDF : 692014.8/17

Left Out: 191.507 $\pm$ 0.032 χ^2/NDF : 727251.6/24

Right Out: 168.471 $\pm$ 0.043 χ^2/NDF : 1016078.3/20

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

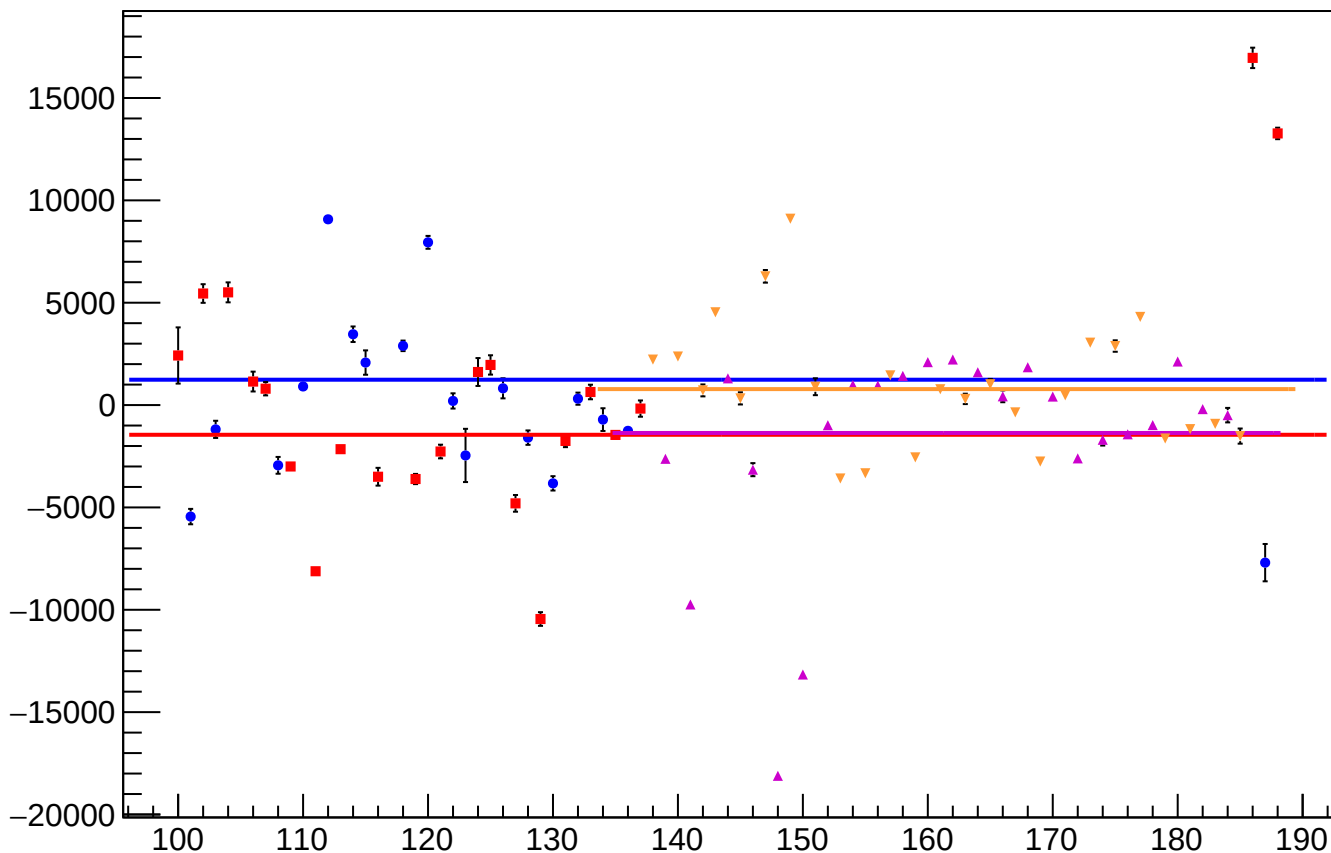
Right: 171.719 $\pm$ 0.033 χ^2/NDF : 1721258.6/38

In: 177.315 $\pm$ 0.026 χ^2/NDF : 1555453.8/40

Out: 183.269 $\pm$ 0.026 χ^2/NDF : 1926367.0/45

All: 180.353 $\pm$ 0.018 χ^2/NDF : 3507892.9/86

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1238.656 ± 77.046 $\chi^2/\text{NDF}: 2746.7/17$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -1451.389 ± 67.310 $\chi^2/\text{NDF}: 6941.5/20$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

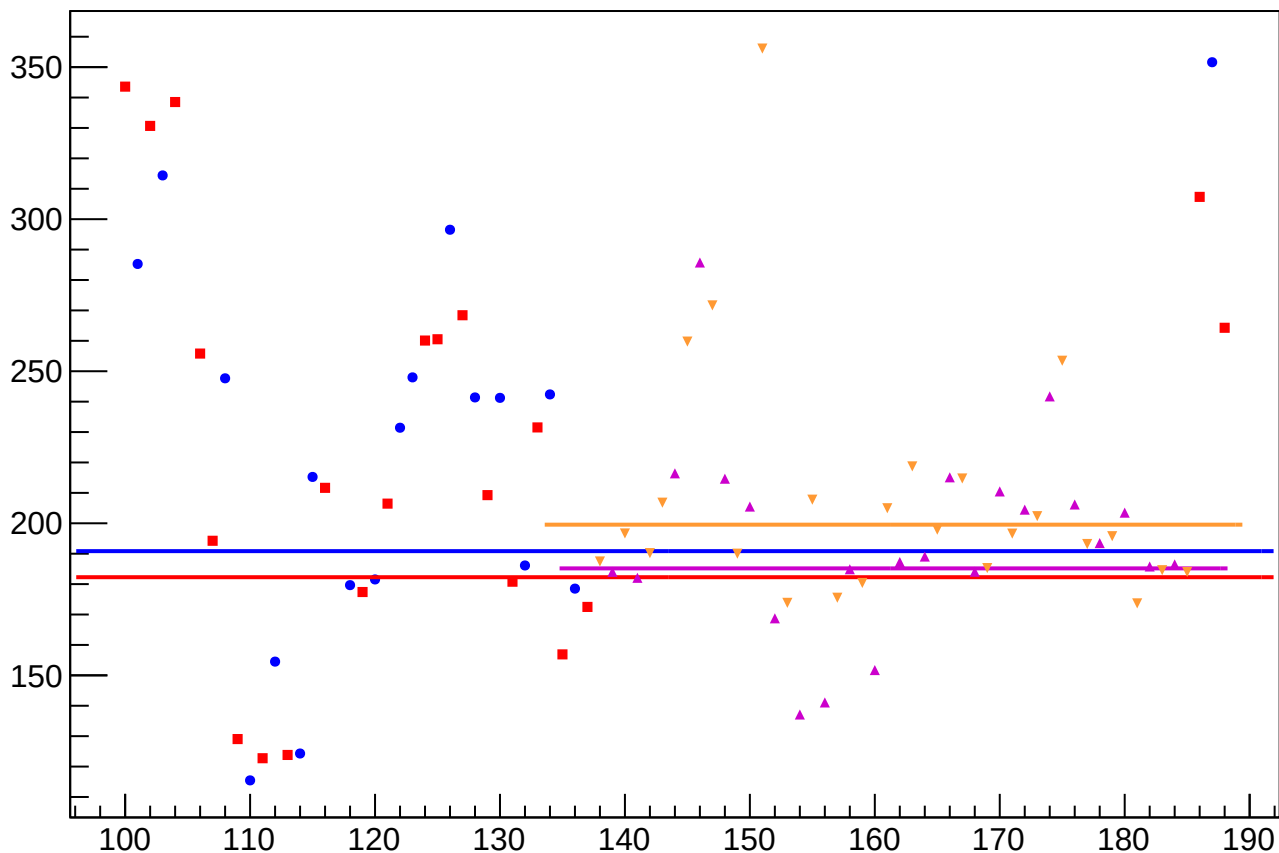
Right: -286.977 ± 50.690 $\chi^2/\text{NDF}: 10379.5/38$

In: -683.589 ± 39.373 $\chi^2/\text{NDF}: 15222.0/40$

Out: 39.073 ± 38.786 $\chi^2/\text{NDF}: 11936.3/45$

All: -316.828 ± 27.631 $\chi^2/\text{NDF}: 27329.3/86$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 190.844+/-0.054 χ^2/NDF : 1039853.4/17

Left Out: 199.547+/-0.034 χ^2/NDF : 729356.3/24

Right Out: 182.270+/-0.048 χ^2/NDF : 1610863.2/20

Left In: 185.171+/-0.032 χ^2/NDF : 882752.2/22

Left: 192.104+/-0.023 χ^2/NDF : 1707122.0/47

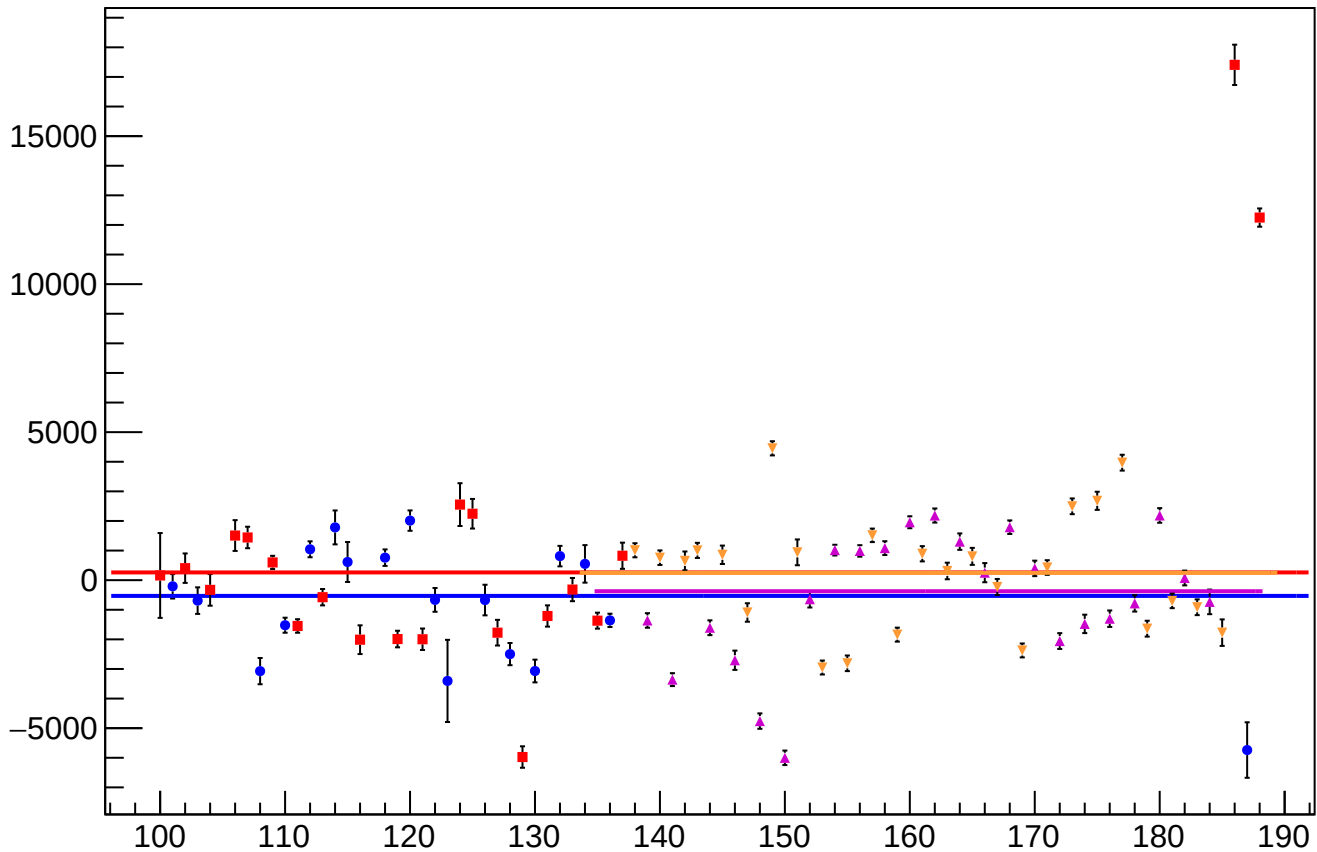
Right: 185.981+/-0.036 χ^2/NDF : 2664761.2/38

In: 186.652+/-0.028 χ^2/NDF : 1930616.9/40

Out: 193.810+/-0.027 χ^2/NDF : 2428228.5/45

All: 190.285+/-0.020 χ^2/NDF : 4392393.6/86

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -531.718 $\pm$ 88.393 χ^2/NDF : 316.4/17

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 261.608 $\pm$ 78.921 χ^2/NDF : 2762.3/20

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

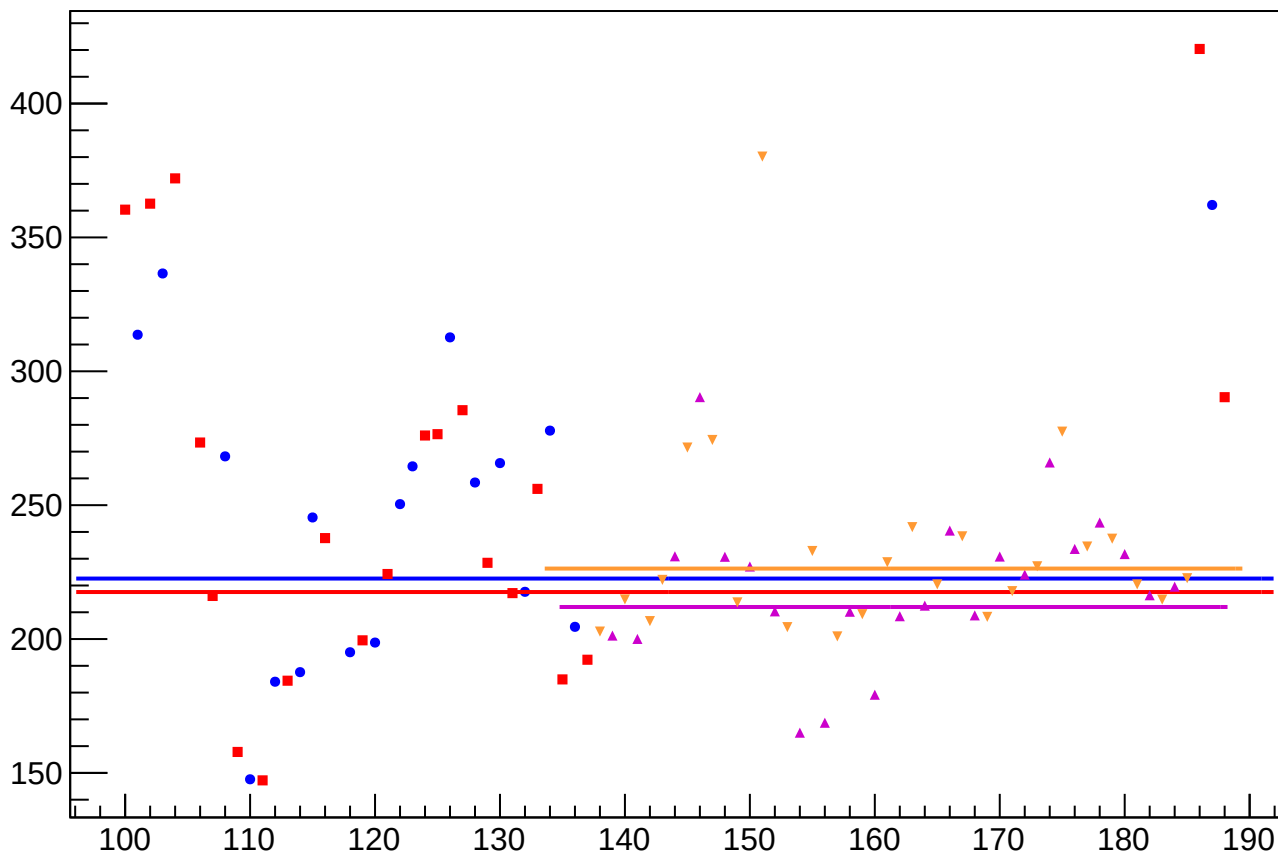
Right: -90.287 $\pm$ 58.871 χ^2/NDF : 3123.6/38

In: -414.696 $\pm$ 44.851 χ^2/NDF :2119.8/40

Out: 252.183 $\pm$ 44.315 χ^2/NDF :4117.5/45

All: -77.248 $\pm$ 31.523 χ^2/NDF : 6349.1/86

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 222.590 ± 0.063 $\chi^2/\text{NDF}: 690184.4/17$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 217.557 ± 0.056 $\chi^2/\text{NDF}: 1187469.1/20$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

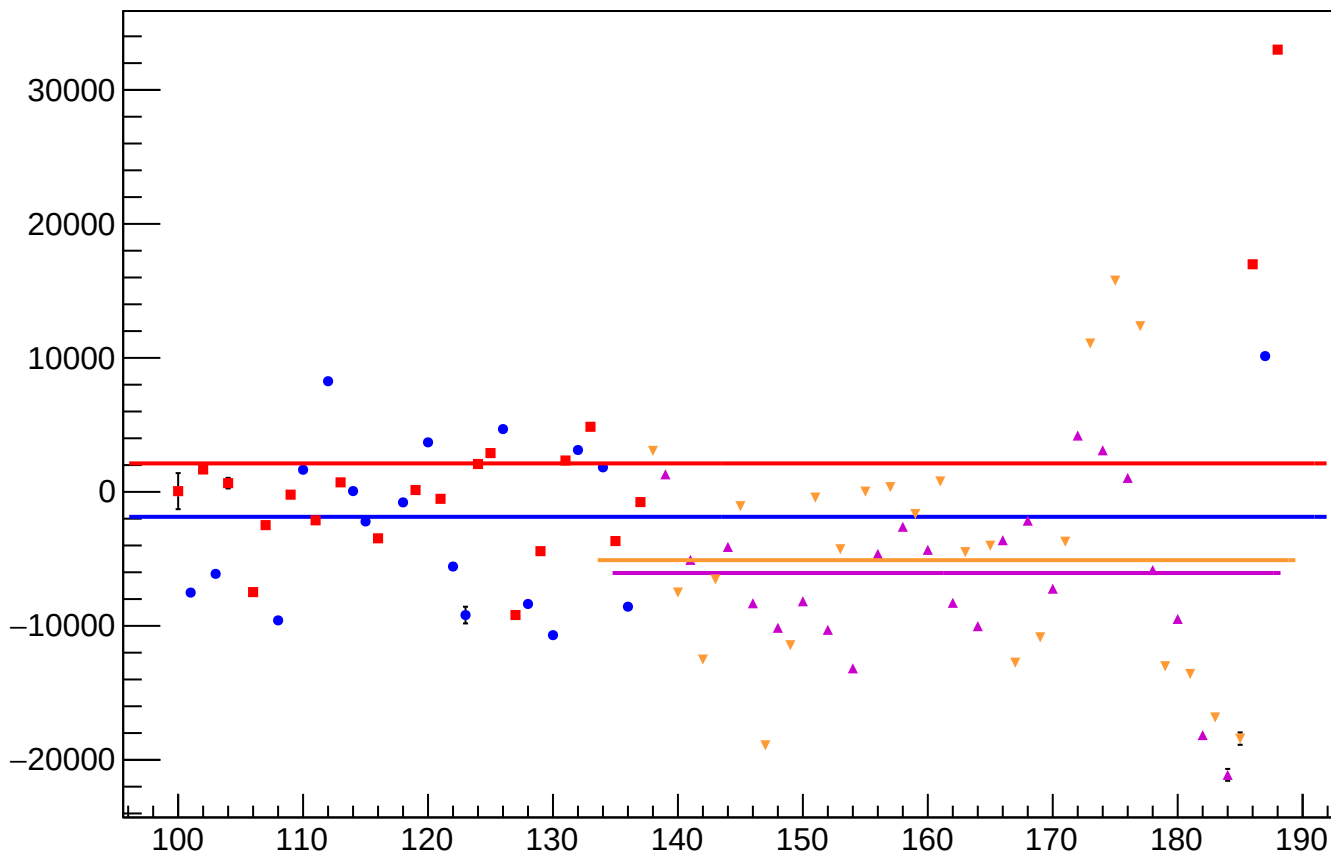
Right: 219.790 ± 0.042 $\chi^2/\text{NDF}: 1881260.6/38$

In: 214.704 ± 0.032 $\chi^2/\text{NDF}: 1295964.5/40$

Out: 223.558 ± 0.031 $\chi^2/\text{NDF}: 1725399.1/45$

All: 219.185 ± 0.022 $\chi^2/\text{NDF}: 3060803.5/86$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -1861.595 $\pm$ 47.009 χ^2/NDF : 17642.7/17

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF :54395.4/24

Right Out: 2125.844 $\pm$ 42.298 χ^2/NDF : 59450.8/20

Left In: -6053.569 $\pm$ 34.998 χ^2/NDF :17590.3/22

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

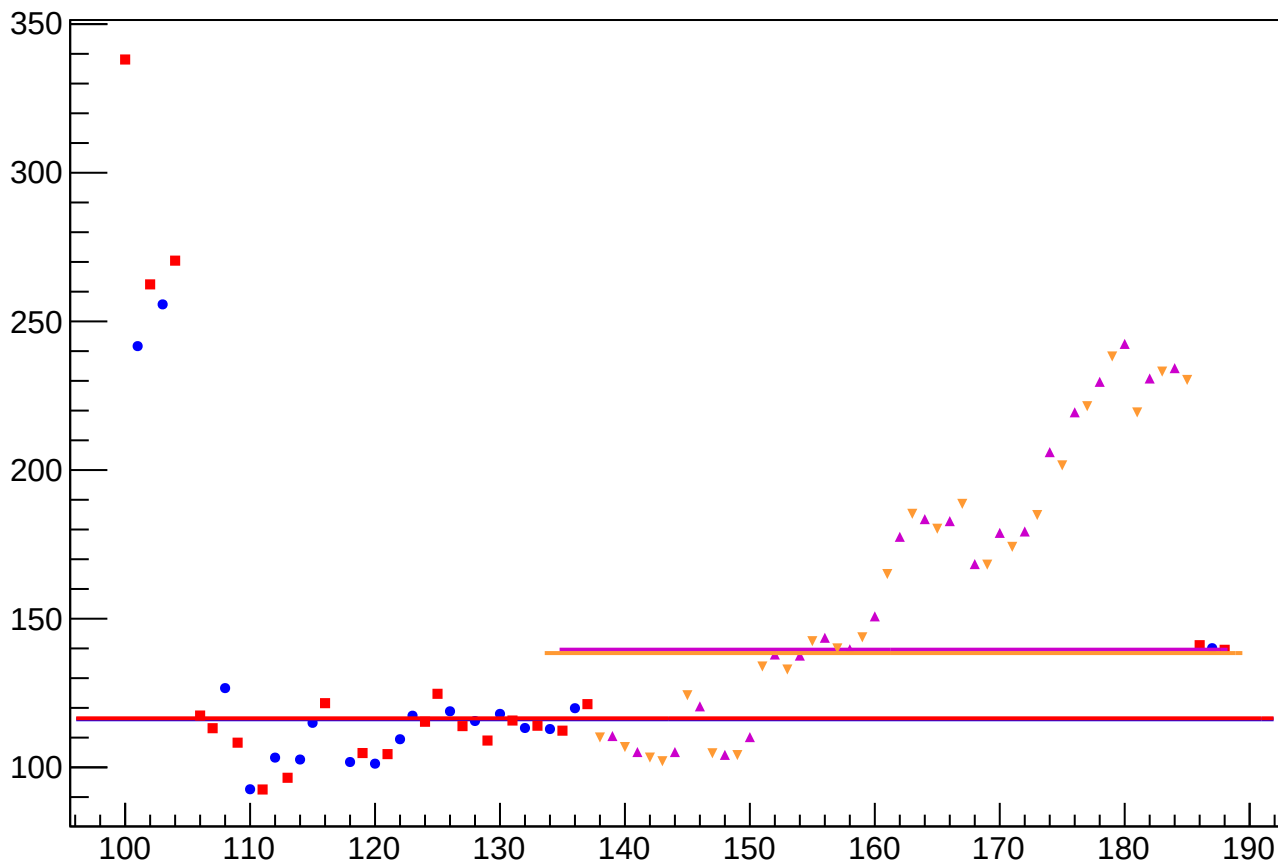
Right: 341.860 $\pm$ 31.443 χ^2/NDF : 81069.4/38

In: -4558.654 $\pm$ 28.072 χ^2/NDF :40349.2/40

Out: -2291.048 $\pm$ 26.359 χ^2/NDF :131673.0/45

All: -3353.544 $\pm$ 19.216 χ^2/NDF : 175489.9/8

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 116.174+/-0.033 χ^2/NDF : 752454.3/17

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 116.486+/-0.030 χ^2/NDF : 876193.5/20

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

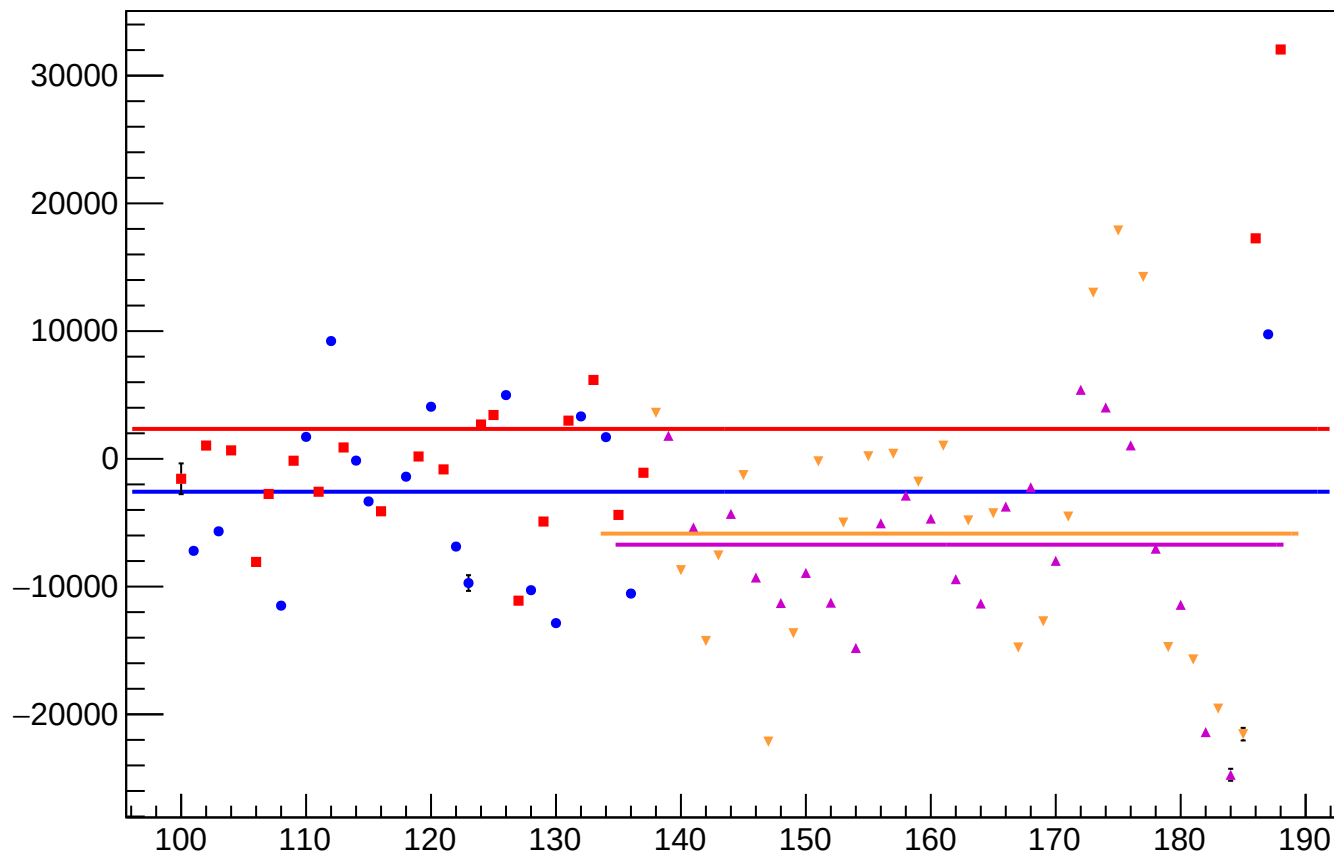
Right: 116.346+/-0.022 χ^2/NDF : 1628696.3/38

In: 131.232+/-0.020 χ^2/NDF : 3485047.7/40

Out: 129.912+/-0.019 χ^2/NDF : 3755054.9/45

All: 130.530+/-0.014 χ^2/NDF : 7242452.9/86

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2574.585 ± 47.912 χ^2/NDF : 22498.8/17

Left Out: -5852.544 ± 35.880 χ^2/NDF : 63411.4/24

Right Out: 2343.297 ± 43.249 χ^2/NDF : 62695.8/20

Left In: -6718.475 ± 37.276 χ^2/NDF : 20934.3/22

Left: -6268.993 ± 25.850 χ^2/NDF : 84625.8/47

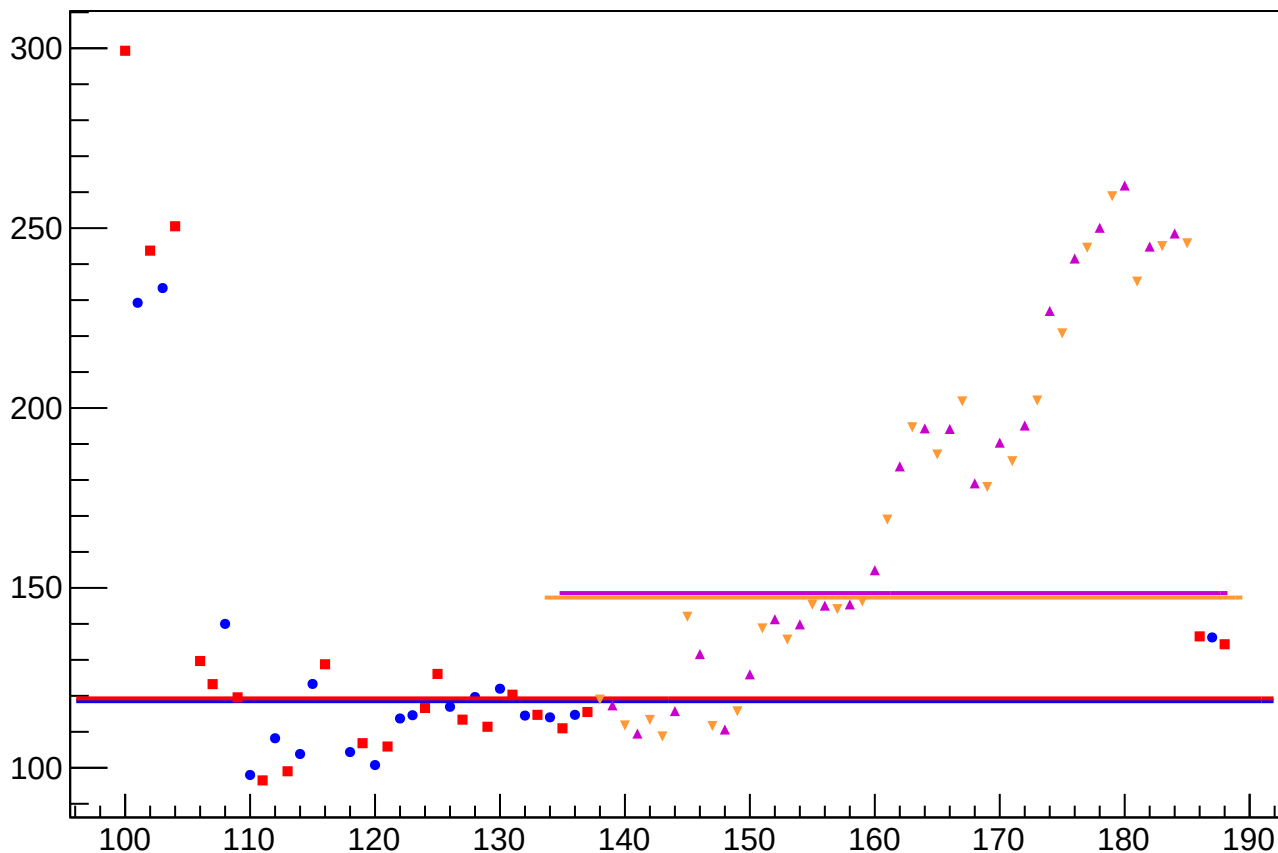
Right: 135.234 ± 32.104 χ^2/NDF : 91000.0/38

In: -5155.977 ± 29.420 χ^2/NDF : 48093.0/40

Out: -2511.347 ± 27.614 χ^2/NDF : 147378.7/45

All: -3749.996 ± 20.134 χ^2/NDF : 199767.5/8

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.519+/-0.034 χ^2/NDF : 641468.3/17

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 119.291+/-0.031 χ^2/NDF : 728878.9/20

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

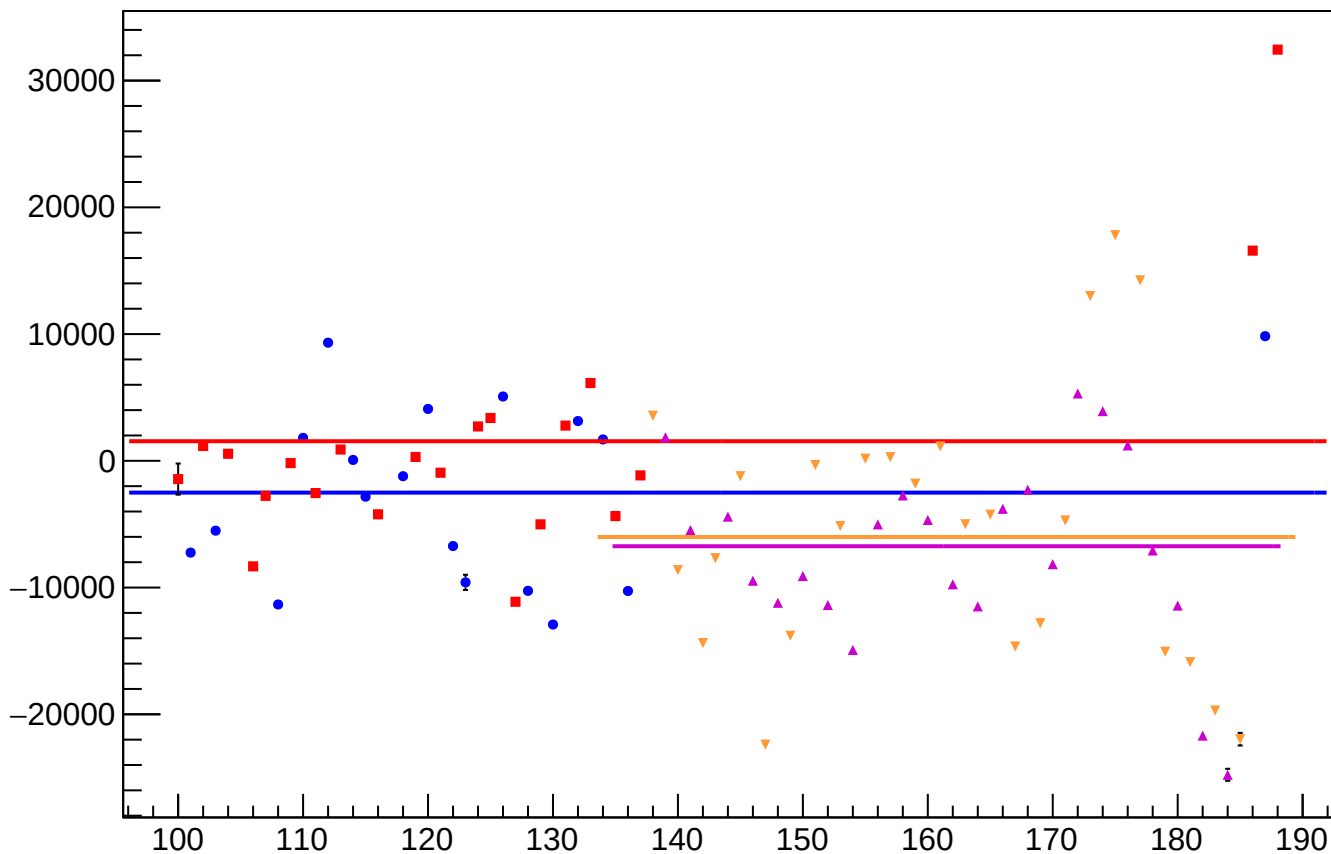
Right: 118.944+/-0.023 χ^2/NDF : 1370633.4/38

In: 137.238+/-0.021 χ^2/NDF : 3524737.1/40

Out: 135.892+/-0.020 χ^2/NDF : 3738034.3/45

All: 136.522+/-0.014 χ^2/NDF : 7264998.0/86

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2508.877 $\pm$ 46.080 χ^2 /NDF: 23909.7/17

Left Out: -6009.913 $\pm$ 35.082 χ^2 /NDF: 67852.2/24

Right Out: 1547.166 $\pm$ 42.052 χ^2 /NDF: 56695.8/20

Left In: -6740.666 $\pm$ 36.379 χ^2 /NDF: 22071.8/22

Left: -6362.031 $\pm$ 25.253 χ^2 /NDF: 90133.1/47

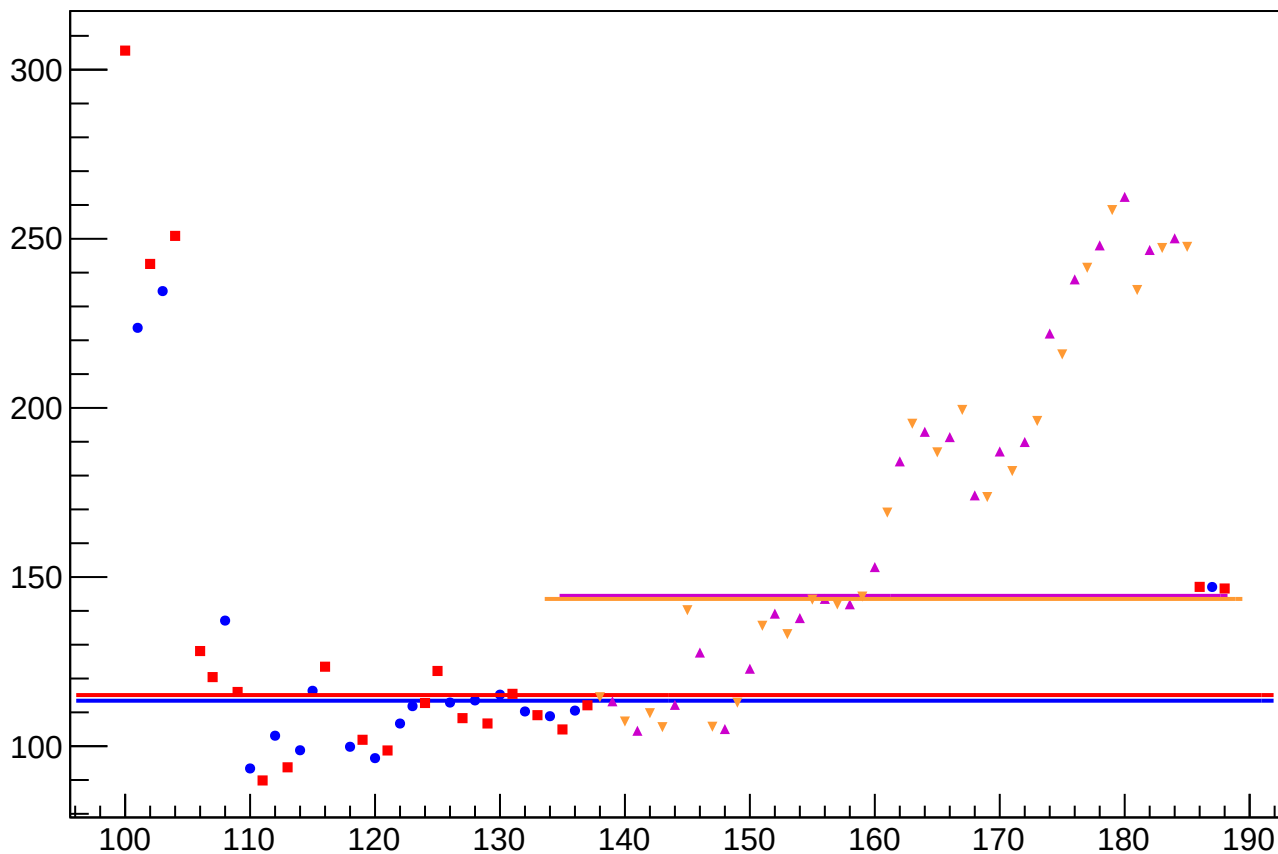
Right: -295.879 $\pm$ 31.062 χ^2 /NDF: 84832.8/38

In: -5115.799 $\pm$ 28.553 χ^2 /NDF: 51177.0/40

Out: -2908.691 $\pm$ 26.939 χ^2 /NDF: 143589.9/45

All: -3948.081 $\pm$ 19.595 χ^2 /NDF: 197928.1/8

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 113.441+/-0.033 χ^2/NDF : 696198.9/17

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 115.110+/-0.030 χ^2/NDF : 895338.3/20

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

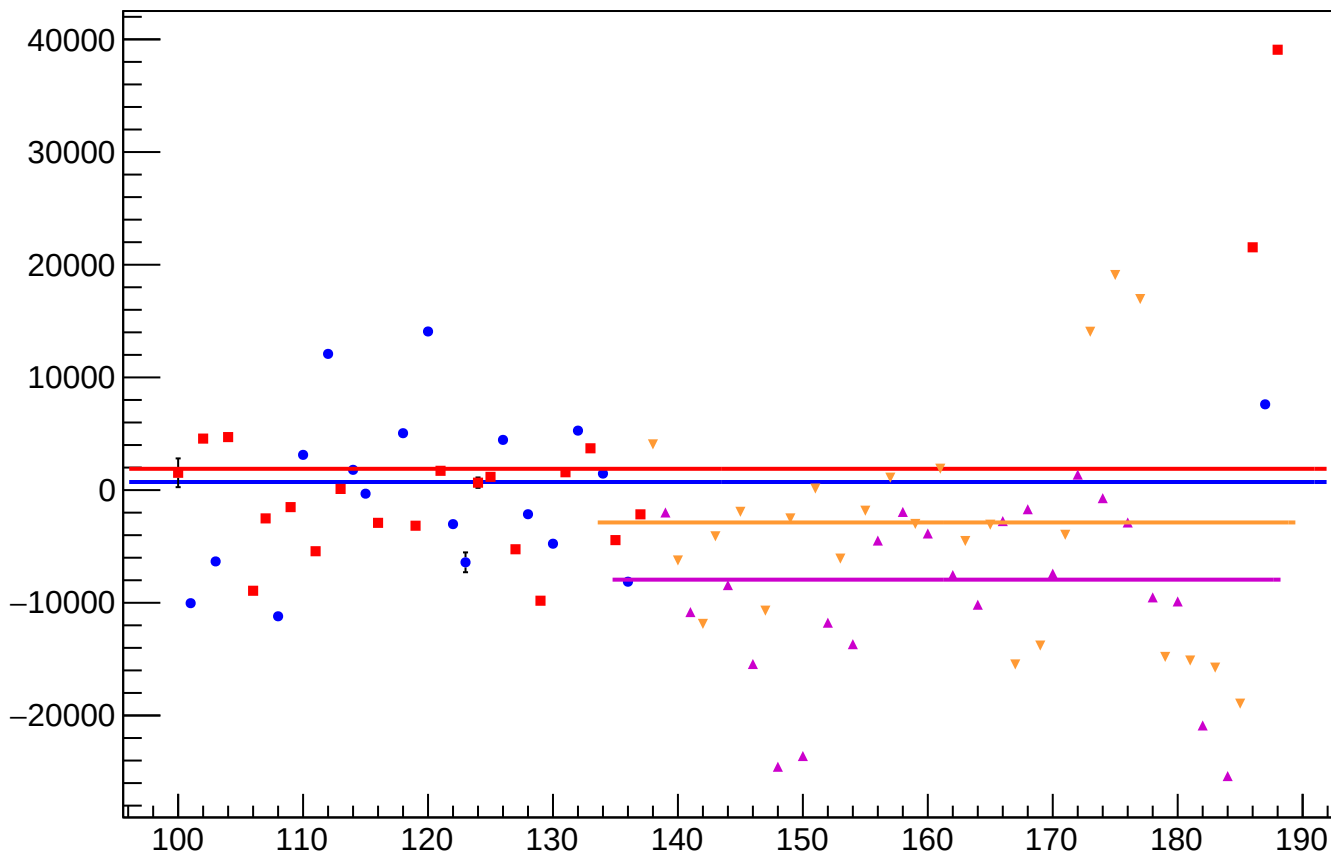
Right: 114.352+/-0.022 χ^2/NDF : 1592967.3/38

In: 132.537+/-0.020 χ^2/NDF : 3840677.1/40

Out: 131.867+/-0.019 χ^2/NDF : 4138785.6/45

All: 132.183+/-0.014 χ^2/NDF : 7980045.2/86

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 719.190 $\pm$ 55.718 χ^2/NDF : 18488.6/17

Left Out: -2870.473 $\pm$ 39.482 χ^2/NDF : 46420.3/24

Right Out: 1890.058 $\pm$ 50.858 χ^2/NDF : 56210.3/20

Left In: -7947.160 $\pm$ 41.726 χ^2/NDF : 23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2/NDF : 78105.0/47

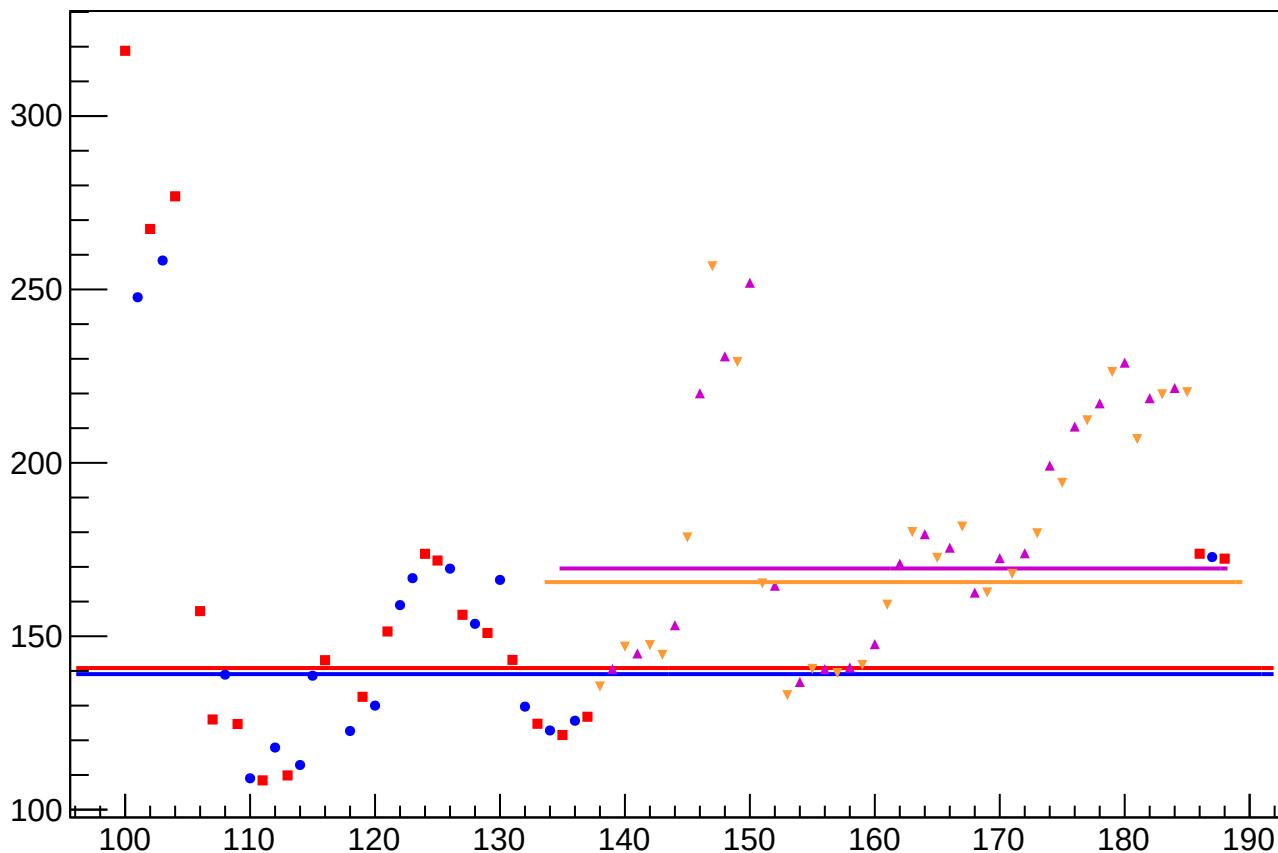
Right: 1357.901 $\pm$ 37.563 χ^2/NDF : 74939.7/38

In: -4833.279 $\pm$ 33.399 χ^2/NDF : 57863.0/40

Out: -1080.327 $\pm$ 31.187 χ^2/NDF : 108097.5/45

All: -2828.466 $\pm$ 22.795 χ^2/NDF : 172705.6/8

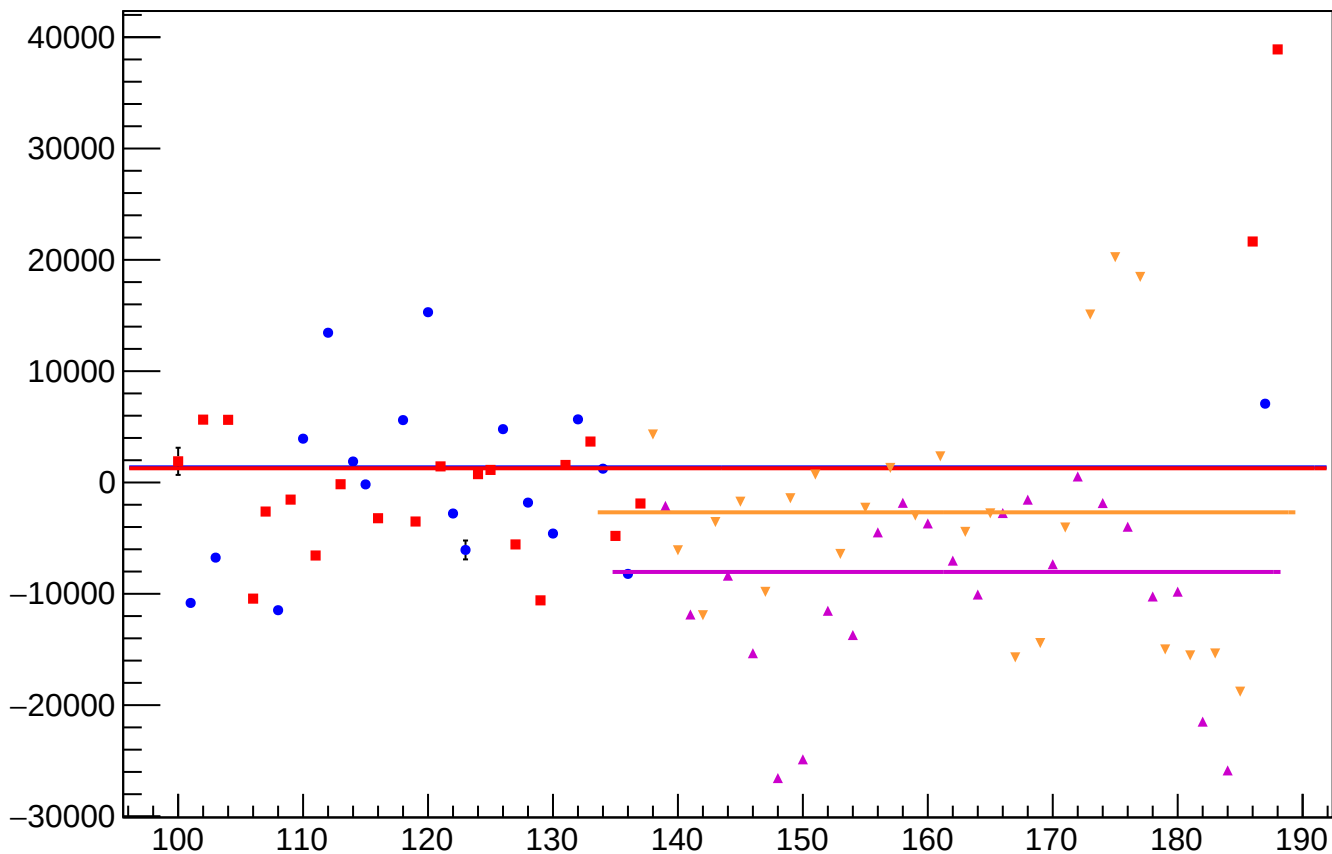
asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 139.079 ± 0.039 χ^2/NDF : 679194.8/17
 Left Out: 165.616 ± 0.028 χ^2/NDF : 1144779.3/24
 Right Out: 140.837 ± 0.036 χ^2/NDF : 848897.1/20
 Left In: 169.542 ± 0.030 χ^2/NDF : 1159241.9/22

Left: 167.471 ± 0.020 χ^2/NDF : 2313359.6/47
 Right: 140.038 ± 0.027 χ^2/NDF : 1529177.8/38
 In: 158.596 ± 0.024 χ^2/NDF : 2221447.0/40
 Out: 156.298 ± 0.022 χ^2/NDF : 2289907.3/45
 All: 157.369 ± 0.016 χ^2/NDF : 4516411.7/86

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1360.785 $\pm$ 46.311 χ^2 /NDF: 30770.5/17

Left Out: -2680.012 $\pm$ 35.764 χ^2 /NDF: 56820.4/24

Right Out: 1274.578 $\pm$ 41.947 χ^2 /NDF: 79944.9/20

Left In: -8036.826 $\pm$ 37.924 χ^2 /NDF: 29261.6/22

Left: -5201.473 $\pm$ 26.019 χ^2 /NDF: 96642.3/47

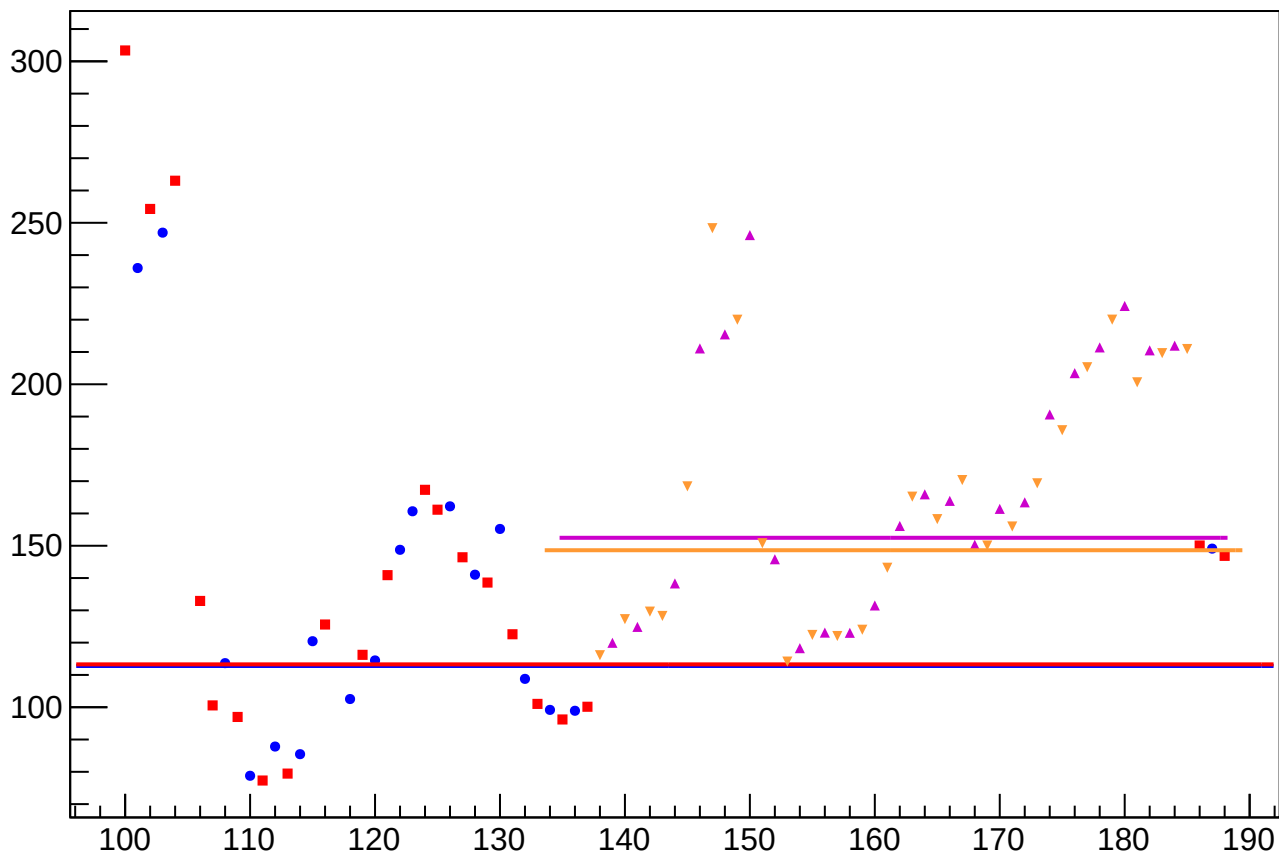
Right: 1313.429 $\pm$ 31.089 χ^2 /NDF: 110717.4/38

In: -4264.451 $\pm$ 29.341 χ^2 /NDF: 84680.9/40

Out: -1015.392 $\pm$ 27.215 χ^2 /NDF: 141912.1/45

All: -2517.928 $\pm$ 19.953 χ^2 /NDF: 233184.3/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.775 ± 0.033 χ^2/NDF : 1141481.0/17

Left Out: 148.611 ± 0.025 χ^2/NDF : 1685424.1/24

Right Out: 113.272 ± 0.030 χ^2/NDF : 1417168.4/20

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

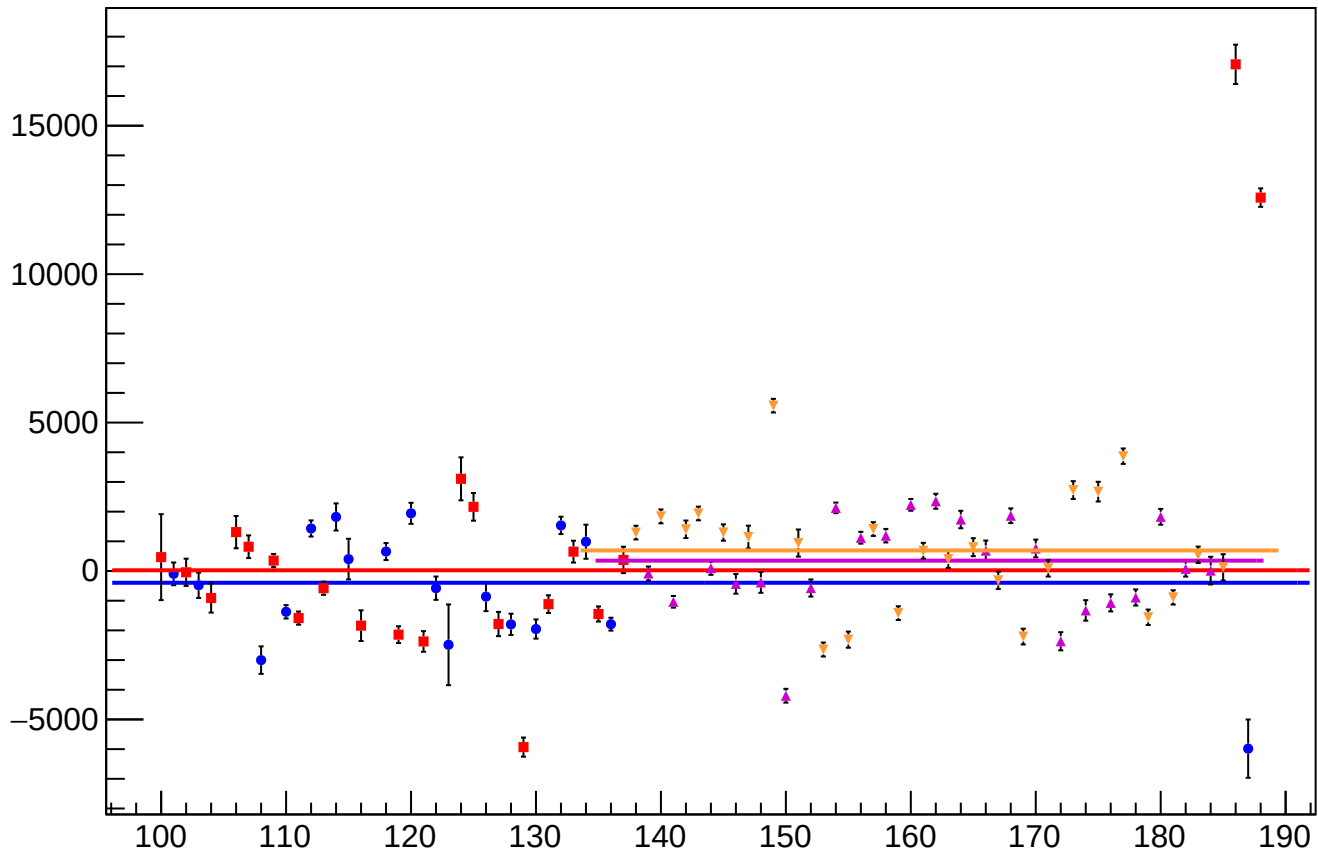
Right: 113.048 ± 0.022 χ^2/NDF : 2558775.9/38

In: 136.532 ± 0.021 χ^2/NDF : 3712256.2/40

Out: 133.735 ± 0.019 χ^2/NDF : 3924579.5/45

All: 135.029 ± 0.014 χ^2/NDF : 7646600.8/86

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -395.888 ± 83.709 $\chi^2/\text{NDF}: 343.2/17$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 24.433 ± 74.866 $\chi^2/\text{NDF}: 2932.4/20$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

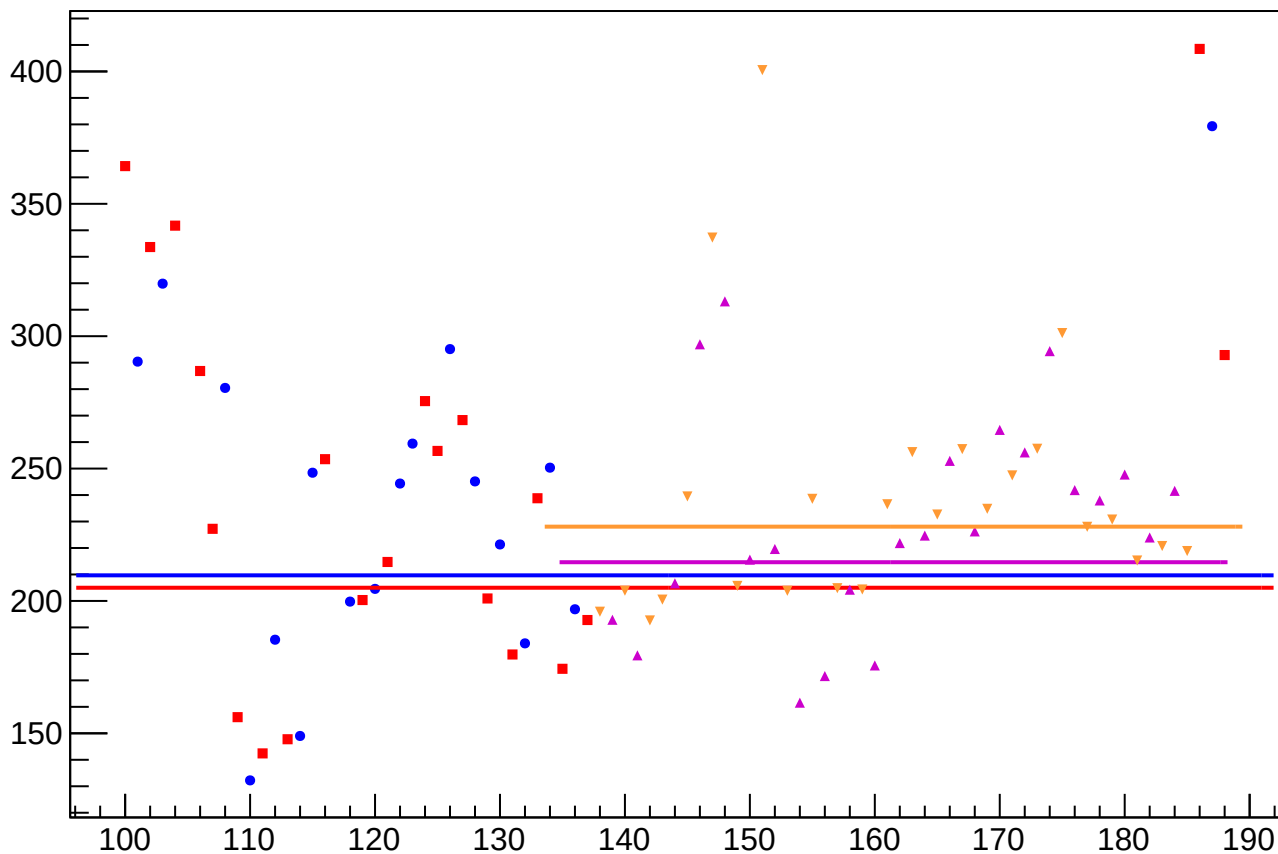
Right: -162.361 ± 55.804 $\chi^2/\text{NDF}: 3289.7/38$

In: 135.749 ± 44.836 $\chi^2/\text{NDF}: 1380.8/40$

Out: 462.517 ± 43.958 $\chi^2/\text{NDF}: 4406.7/45$

All: 302.365 ± 31.389 $\chi^2/\text{NDF}: 5814.5/86$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 209.672 $\pm$ 0.059 χ^2/NDF : 757152.6/17

Left Out: 228.061 $\pm$ 0.038 χ^2/NDF :826343.8/24

Right Out: 204.986 $\pm$ 0.053 χ^2/NDF : 1296139.8/20

Left In: 214.627 $\pm$ 0.038 χ^2/NDF :1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2/NDF : 1914604.4/47

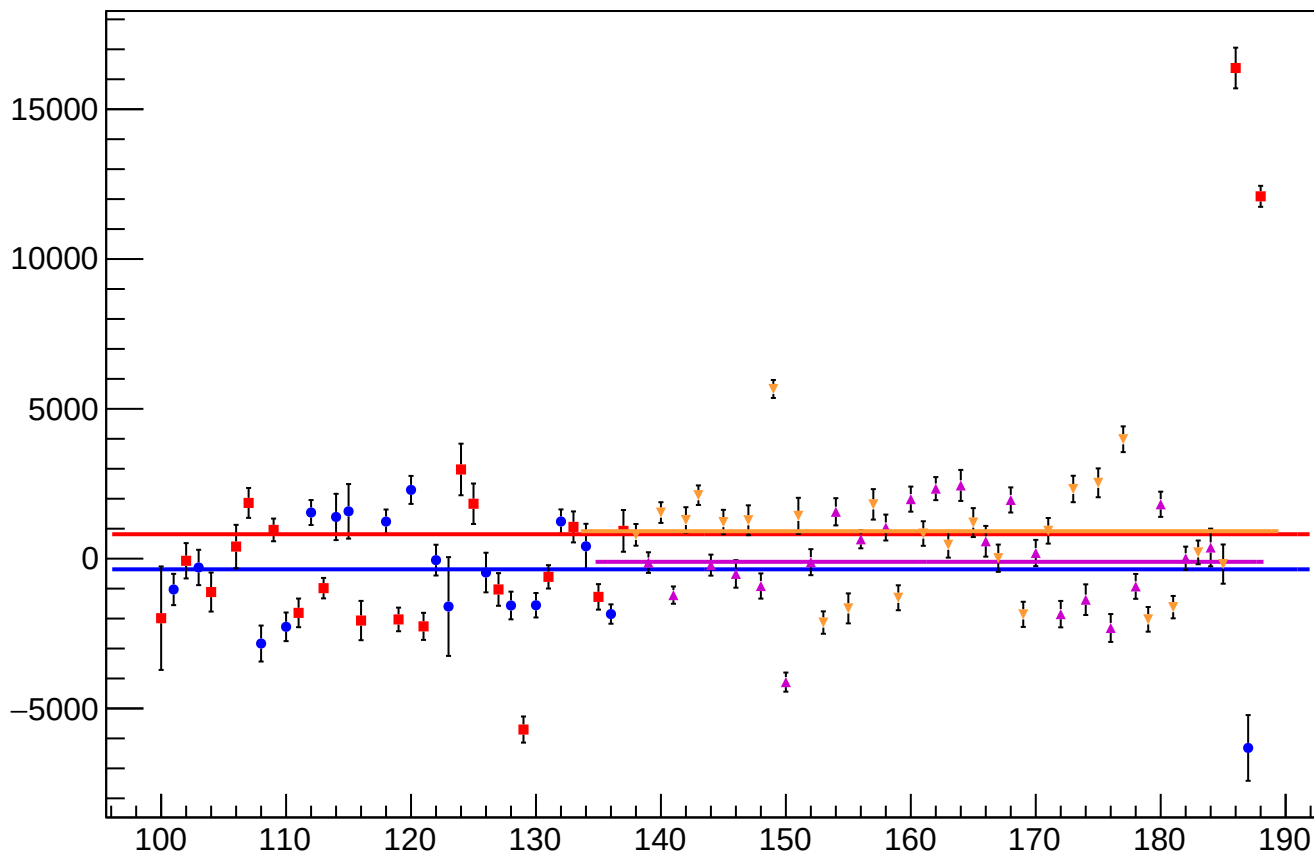
Right: 207.069 $\pm$ 0.039 χ^2/NDF : 2056774.7/38

In: 213.206 $\pm$ 0.032 χ^2/NDF :1787832.5/40

Out: 220.106 $\pm$ 0.031 χ^2/NDF :2246974.6/45

All: 216.724 $\pm$ 0.022 χ^2/NDF : 4058962.4/86

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -356.367+/-120.824 χ^2/NDF : 196.8/17

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 814.814+/-108.156 χ^2/NDF : 2037.2/20

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

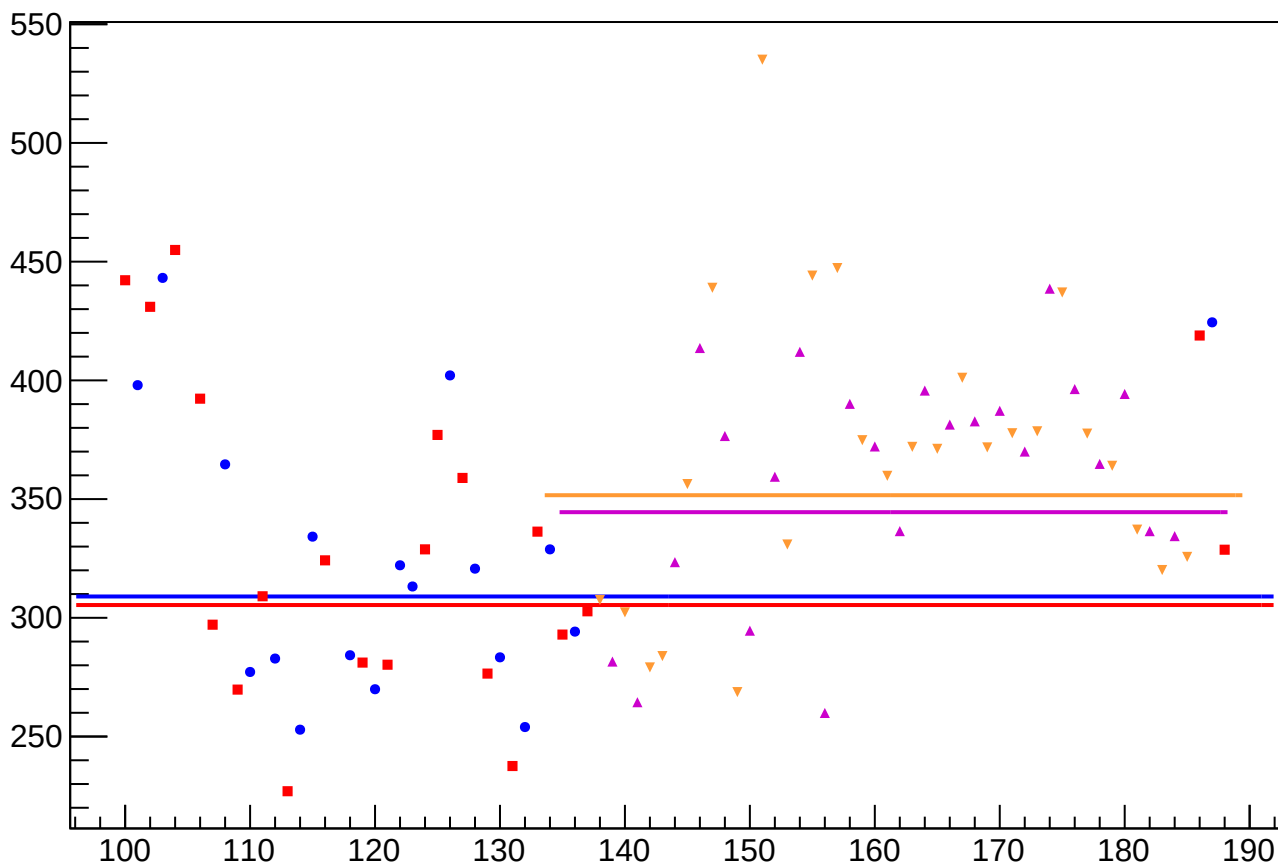
Right: 293.819+/-80.586 χ^2/NDF : 2286.2/38

In: -188.173+/-69.187 χ^2/NDF : 590.0/40

Out: 878.250+/-66.044 χ^2/NDF : 2656.1/45

All: 369.809+/-47.773 χ^2/NDF : 3370.4/86

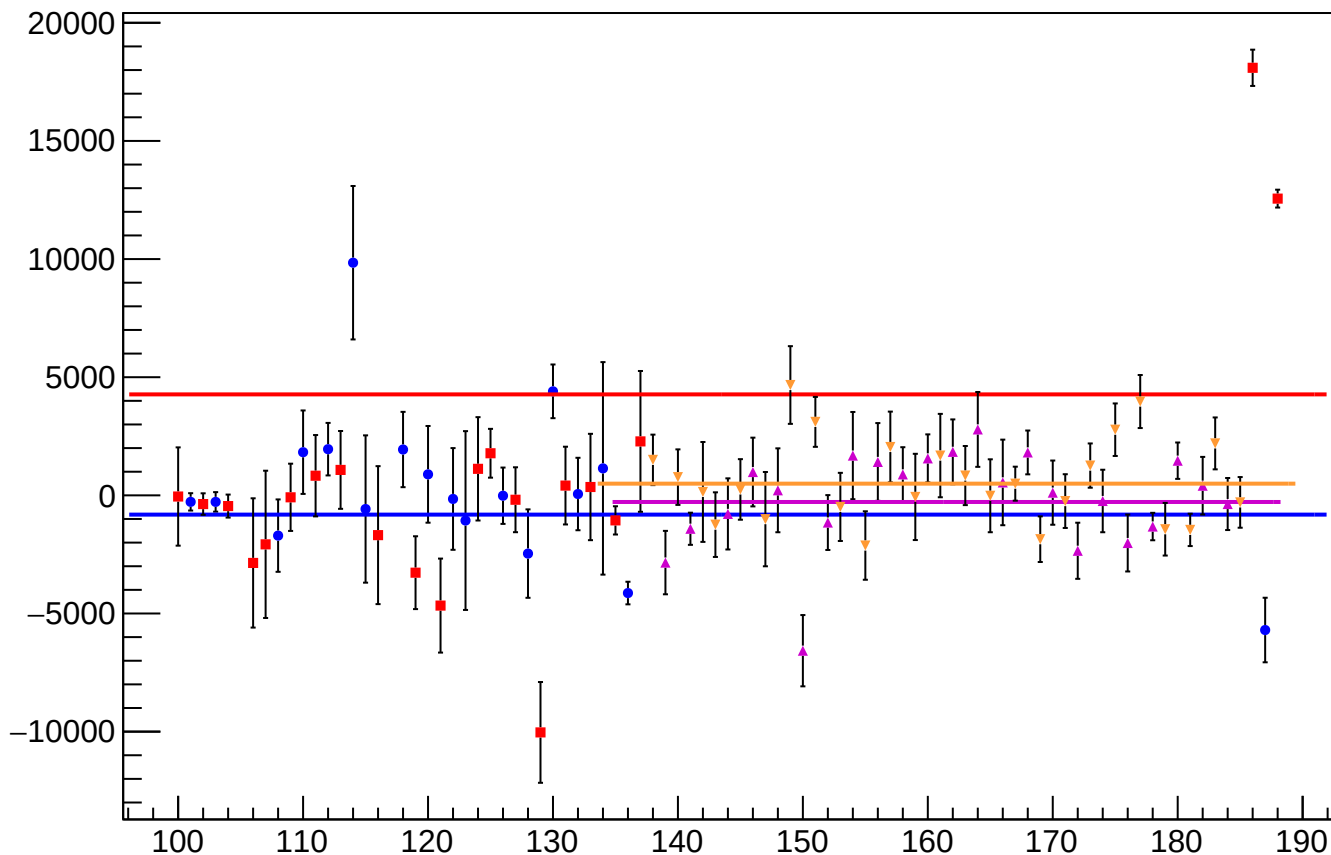
asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 308.984 ± 0.085 $\chi^2/\text{NDF}: 343954.1/17$
 Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$
 Right Out: 305.381 ± 0.076 $\chi^2/\text{NDF}: 563403.4/20$
 Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$
 Right: 306.984 ± 0.057 $\chi^2/\text{NDF}: 908345.1/38$
 In: 332.848 ± 0.049 $\chi^2/\text{NDF}: 1228923.6/40$
 Out: 334.387 ± 0.047 $\chi^2/\text{NDF}: 1700625.8/45$
 All: 333.653 ± 0.034 $\chi^2/\text{NDF}: 2930066.8/86$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -815.349 ± 208.049 $\chi^2/\text{NDF}: 111.0/17$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 4273.032 ± 197.762 $\chi^2/\text{NDF}: 1235.5/20$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

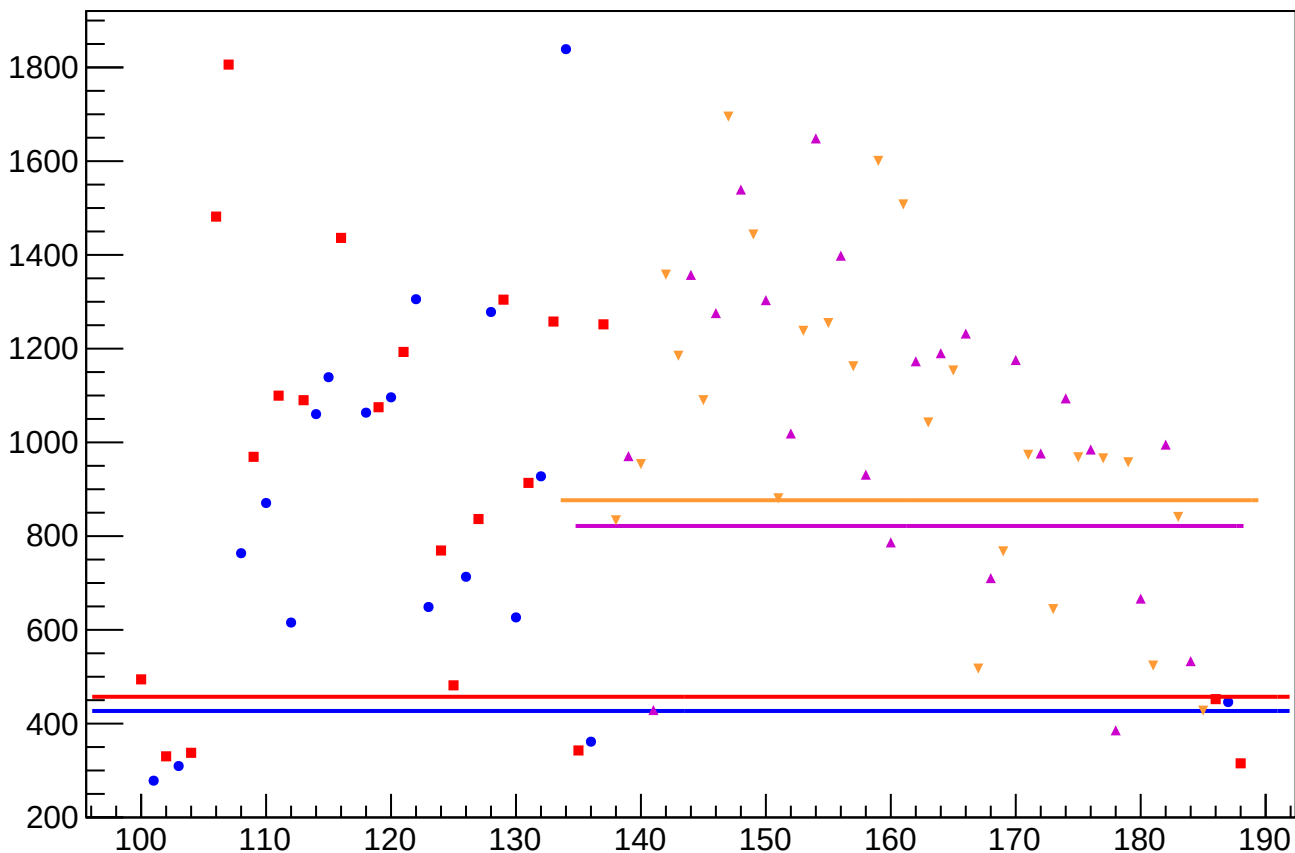
Right: 1857.751 ± 143.337 $\chi^2/\text{NDF}: 1660.7/38$

In: -577.089 ± 154.905 $\chi^2/\text{NDF}: 171.1/40$

Out: 2675.618 ± 150.244 $\chi^2/\text{NDF}: 1446.1/45$

All: 1098.930 ± 107.849 $\chi^2/\text{NDF}: 1844.4/86$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.971 $\pm$ 0.147 χ^2/NDF : 2863467.5/17

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF : 3434698.7/24

Right Out: 457.243 $\pm$ 0.140 χ^2/NDF : 3999058.1/20

Left In: 821.657 $\pm$ 0.164 χ^2/NDF : 4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2/NDF : 7934012.4/47

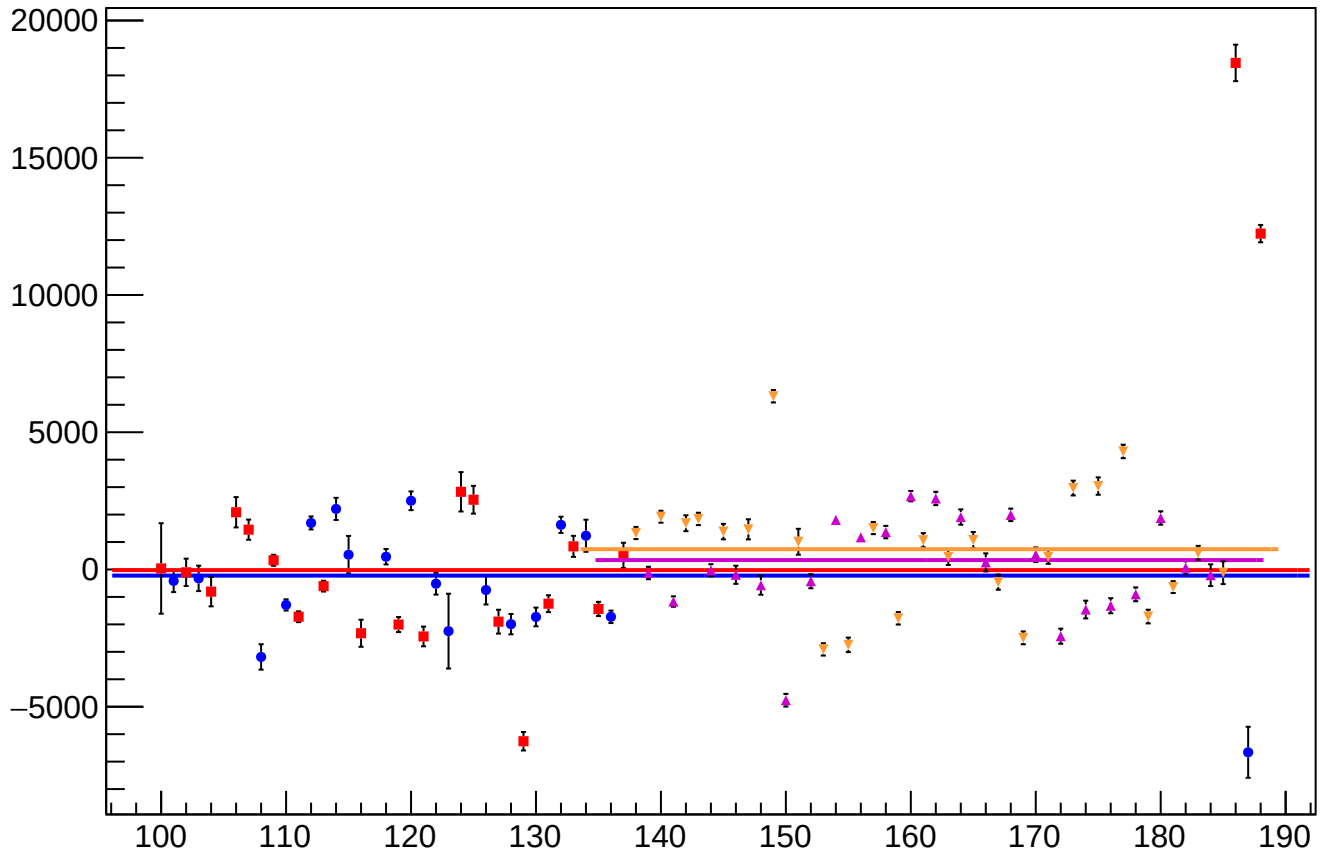
Right: 442.874 $\pm$ 0.101 χ^2/NDF : 6884770.3/38

In: 602.856 $\pm$ 0.110 χ^2/NDF : 10514149.7/40

Out: 634.538 $\pm$ 0.106 χ^2/NDF : 11235514.6/45

All: 619.181 $\pm$ 0.076 χ^2/NDF : 21792773.7/80

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -223.313 ± 82.221 $\chi^2/\text{NDF}: 424.9/17$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: -23.122 ± 72.626 $\chi^2/\text{NDF}: 2976.9/20$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

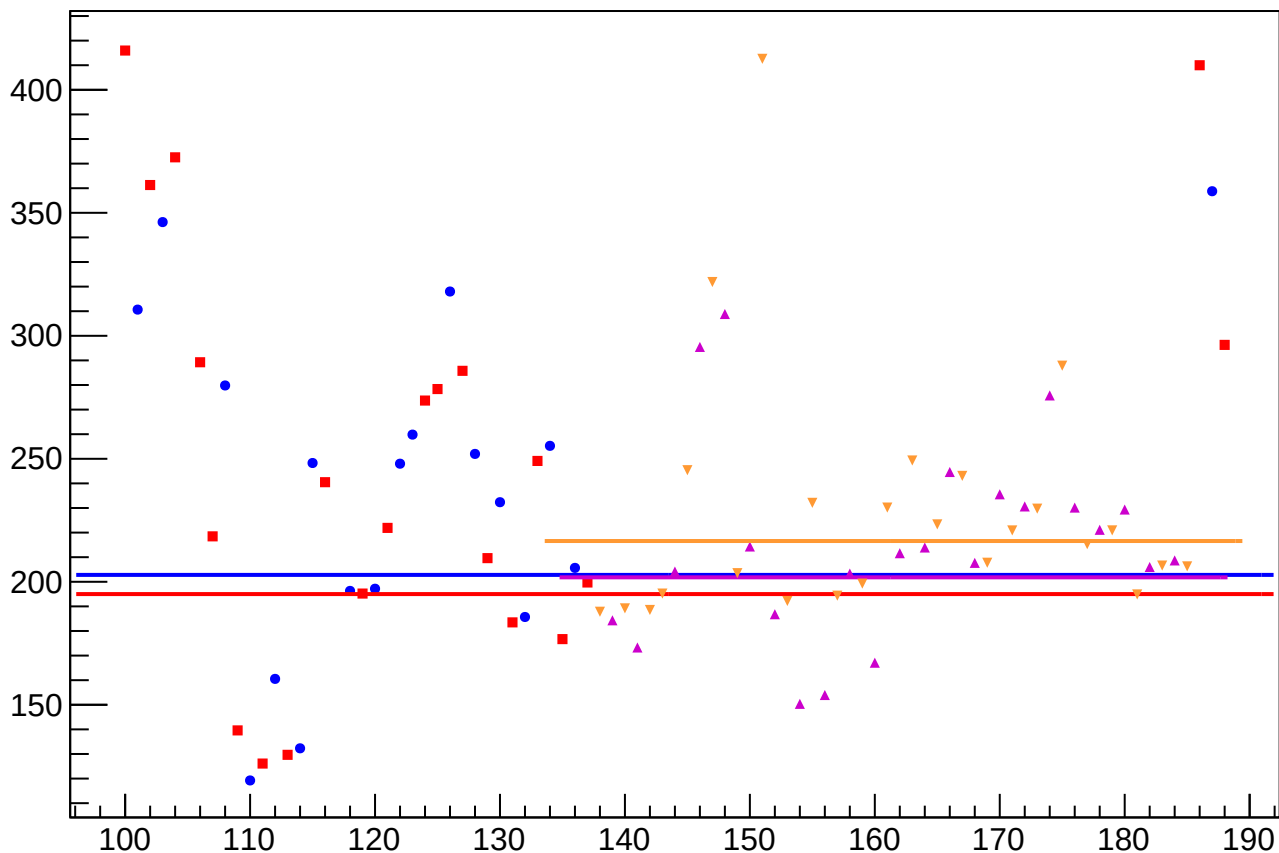
Right: -110.860 ± 54.432 $\chi^2/\text{NDF}: 3405.1/38$

In: 189.523 ± 42.748 $\chi^2/\text{NDF}: 1714.3/40$

Out: 482.915 ± 42.091 $\chi^2/\text{NDF}: 4985.2/45$

All: 338.494 ± 29.992 $\chi^2/\text{NDF}: 6723.4/86$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 202.803 ± 0.058 $\chi^2/\text{NDF}: 1109125.6/17$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 195.004 ± 0.051 $\chi^2/\text{NDF}: 1829348.8/20$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

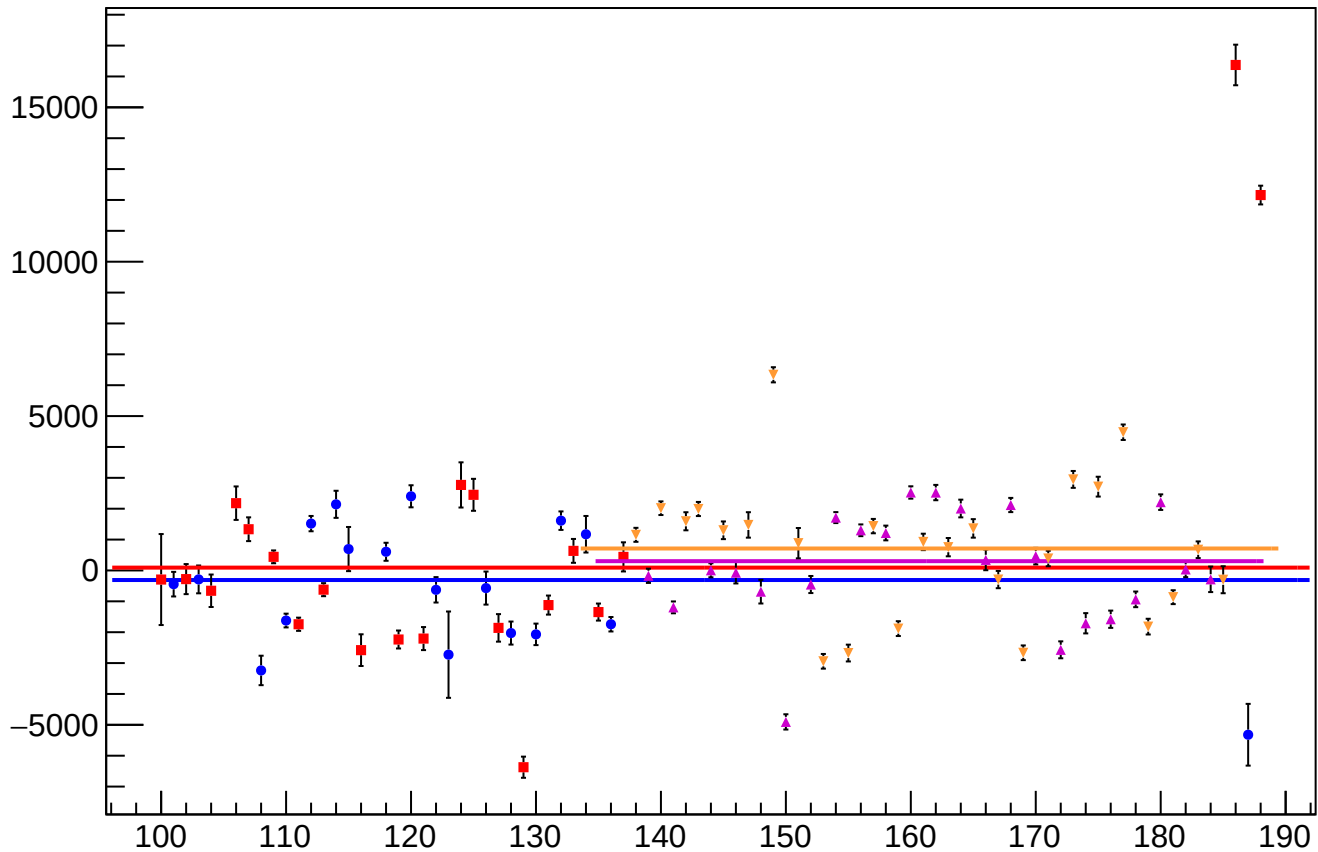
Right: 198.422 ± 0.038 $\chi^2/\text{NDF}: 2948583.0/38$

In: 202.075 ± 0.030 $\chi^2/\text{NDF}: 2196583.7/40$

Out: 209.329 ± 0.030 $\chi^2/\text{NDF}: 2832733.1/45$

All: 205.758 ± 0.021 $\chi^2/\text{NDF}: 5058558.1/86$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -310.037 ± 85.318 $\chi^2/\text{NDF}: 388.1/17$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 91.956 ± 75.407 $\chi^2/\text{NDF}: 2892.4/20$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

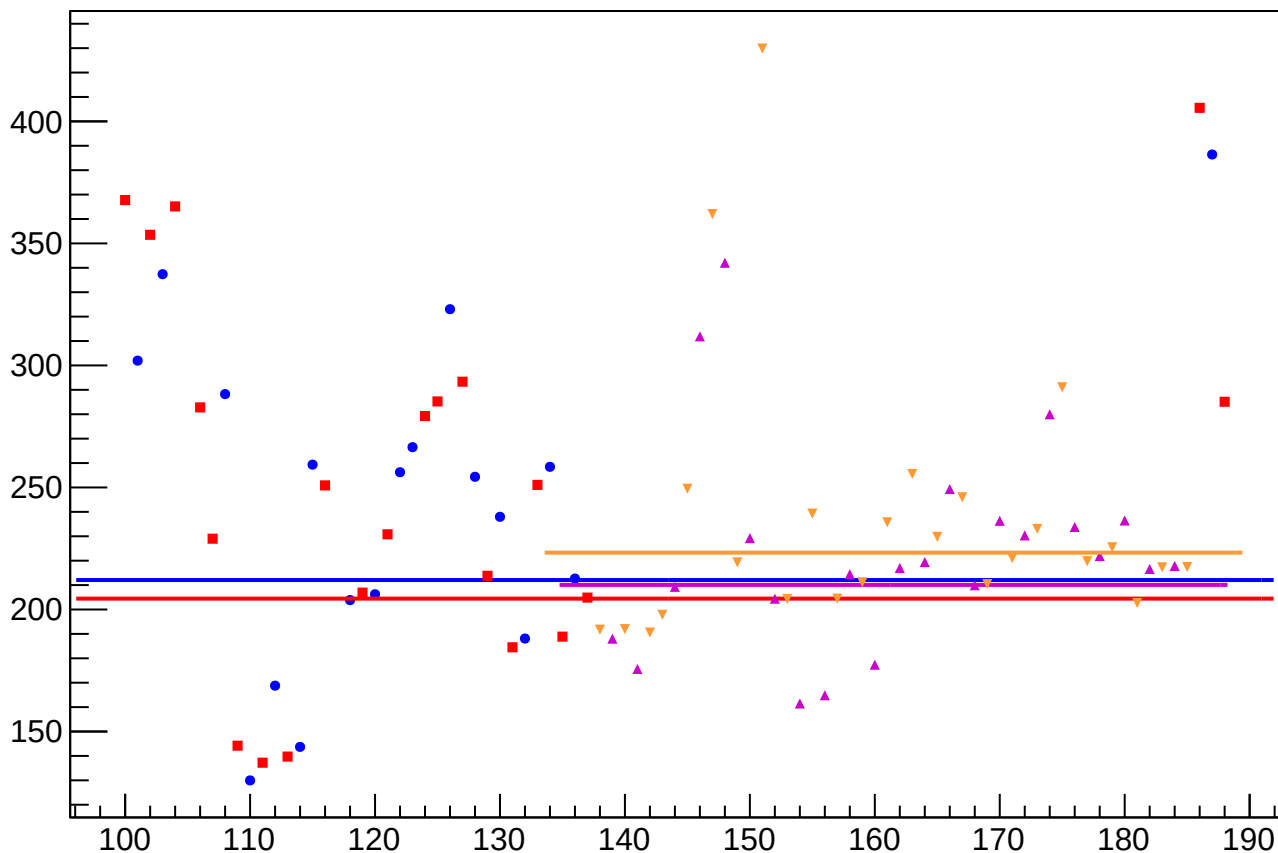
Right: -84.347 ± 56.501 $\chi^2/\text{NDF}: 3292.9/38$

In: 135.219 ± 44.393 $\chi^2/\text{NDF}: 1634.0/40$

Out: 505.161 ± 43.495 $\chi^2/\text{NDF}: 4772.7/45$

All: 323.968 ± 31.068 $\chi^2/\text{NDF}: 6442.2/86$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 212.069 ± 0.060 $\chi^2/\text{NDF}: 934358.2/17$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 204.455 ± 0.053 $\chi^2/\text{NDF}: 1552037.7/20$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

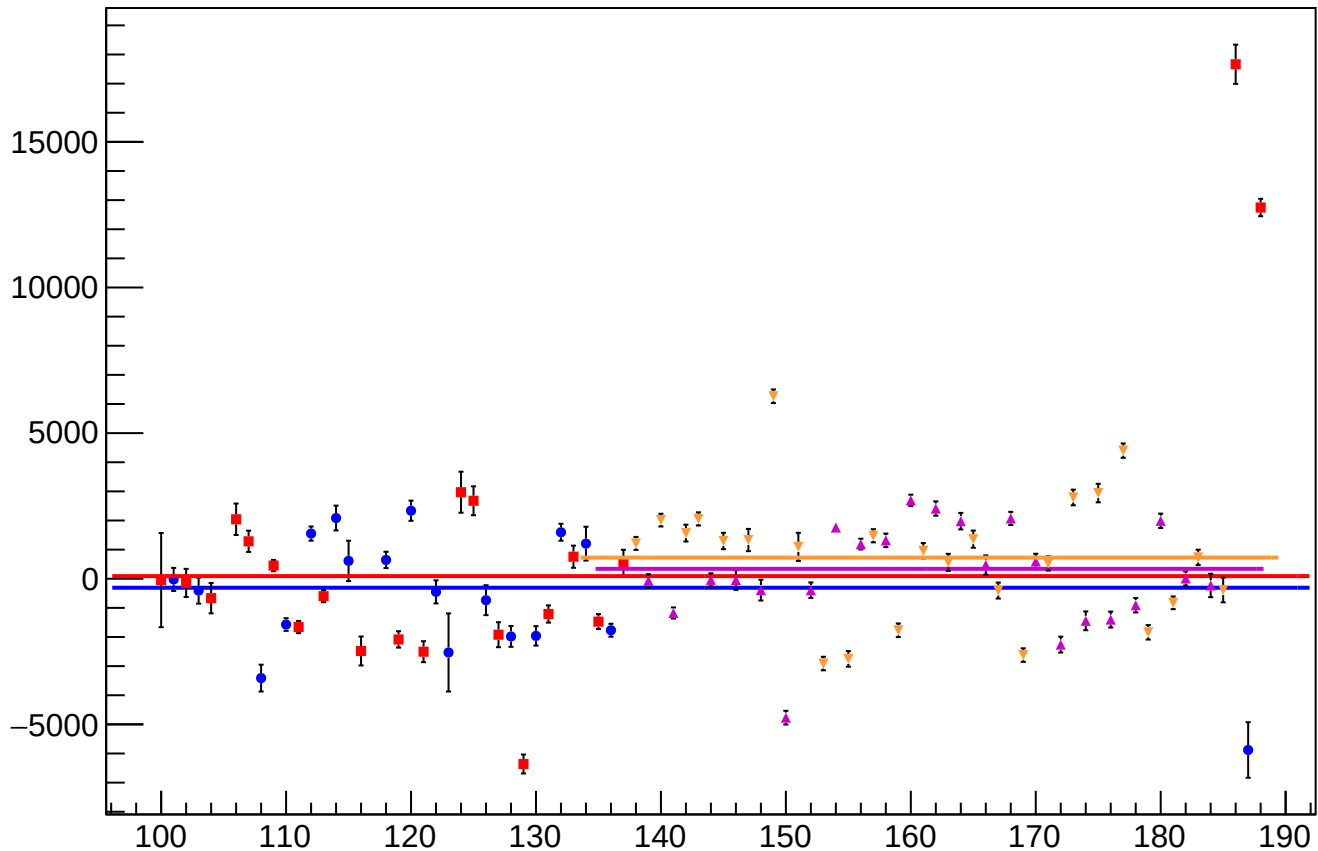
Right: 207.795 ± 0.040 $\chi^2/\text{NDF}: 2495338.6/38$

In: 210.619 ± 0.031 $\chi^2/\text{NDF}: 1950425.8/40$

Out: 217.028 ± 0.031 $\chi^2/\text{NDF}: 2558122.1/45$

All: 213.889 ± 0.022 $\chi^2/\text{NDF}: 4529819.3/86$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -308.768 ± 82.685 $\chi^2/\text{NDF}: 417.7/17$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: 90.161 ± 72.761 $\chi^2/\text{NDF}: 3227.7/20$

Left In: 340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

Left: 528.110 ± 36.393 $\chi^2/\text{NDF}: 3142.6/47$

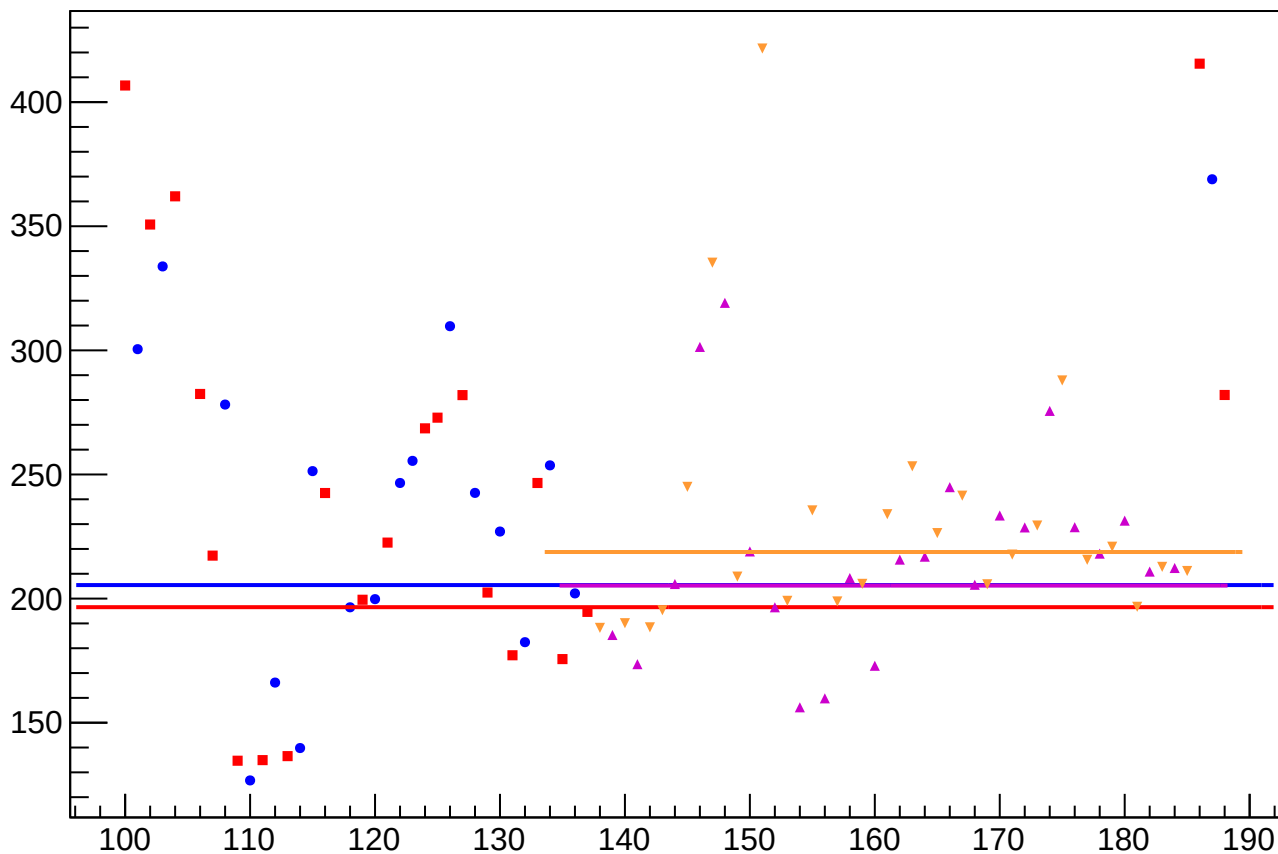
Right: -83.939 ± 54.623 $\chi^2/\text{NDF}: 3658.5/38$

In: 162.572 ± 43.285 $\chi^2/\text{NDF}: 1664.3/40$

Out: 510.083 ± 42.392 $\chi^2/\text{NDF}: 5190.8/45$

All: 339.951 ± 30.286 $\chi^2/\text{NDF}: 6888.0/86$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 205.447+/-0.058 χ^2/NDF : 925184.8/17

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 196.542+/-0.051 χ^2/NDF : 1644889.2/20

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

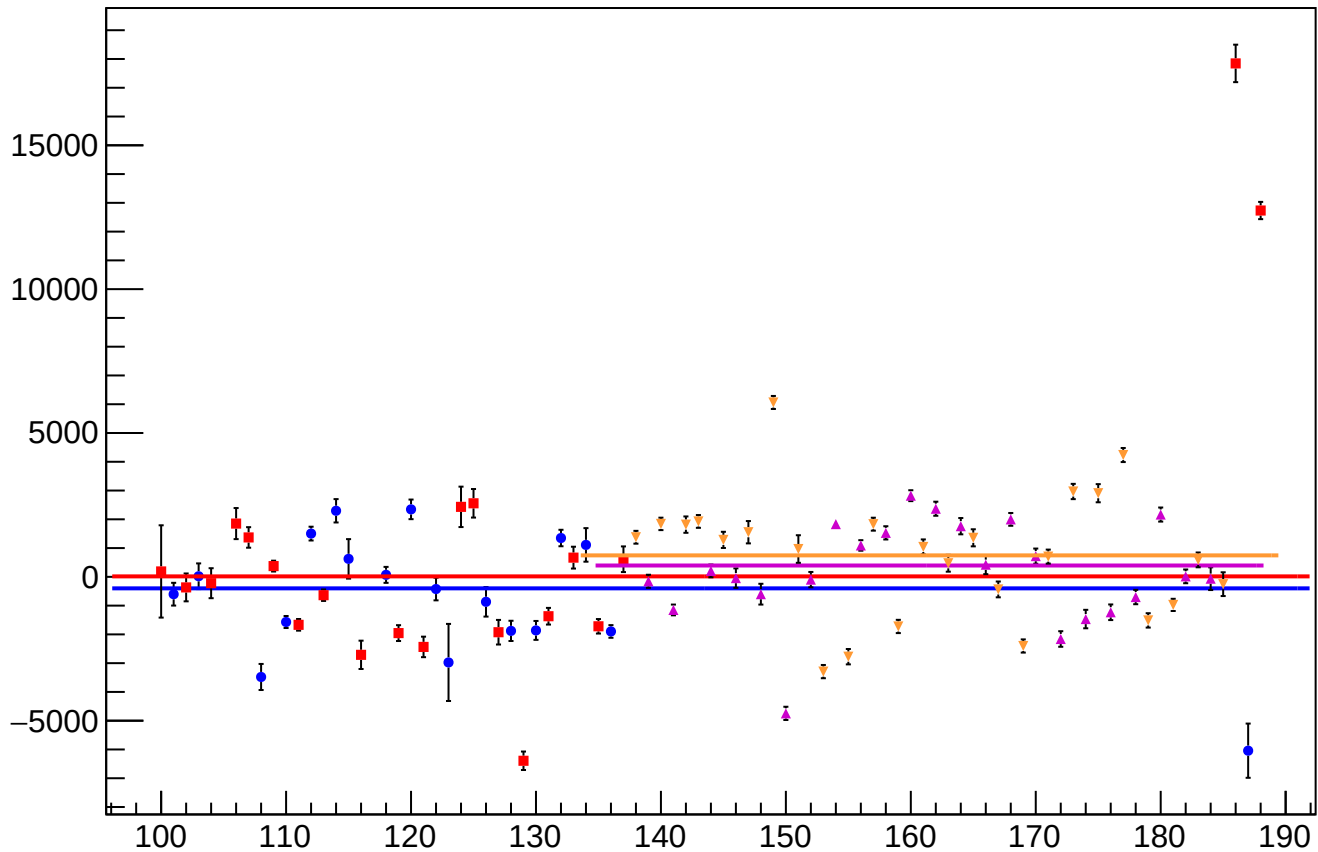
Right: 200.428+/-0.039 χ^2/NDF : 2583146.2/38

In: 205.303+/-0.031 χ^2/NDF : 1922361.9/40

Out: 211.224+/-0.030 χ^2/NDF : 2665080.1/45

All: 208.325+/-0.021 χ^2/NDF : 4606542.7/86

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -400.046 ± 81.214 $\chi^2/\text{NDF}: 424.4/17$

Left Out: 746.405 ± 51.592 $\chi^2/\text{NDF}: 1942.1/24$

Right Out: 16.266 ± 71.278 $\chi^2/\text{NDF}: 3319.7/20$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

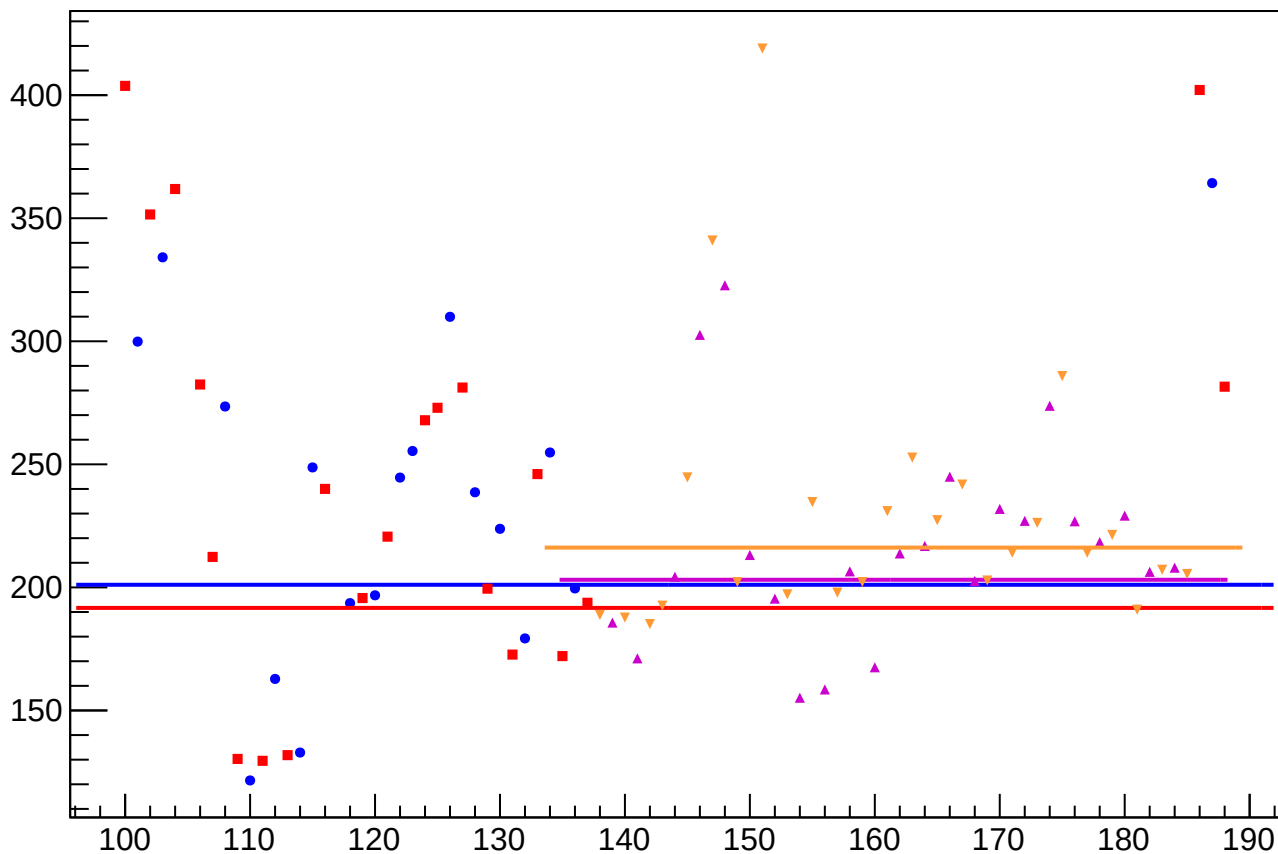
Right: -164.879 ± 53.571 $\chi^2/\text{NDF}: 3758.9/38$

In: 174.055 ± 42.769 $\chi^2/\text{NDF}: 1729.9/40$

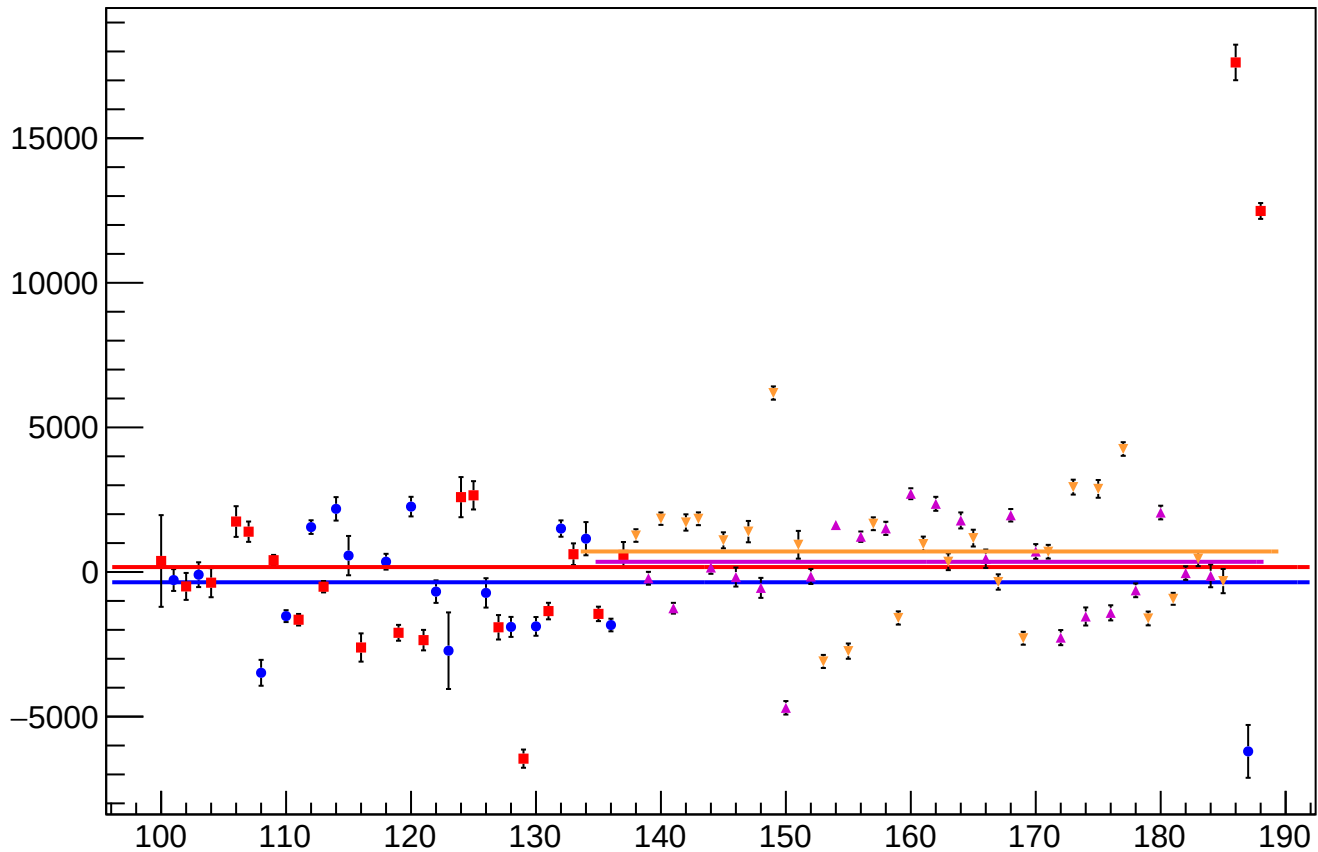
Out: 495.390 ± 41.793 $\chi^2/\text{NDF}: 5330.7/45$

All: 338.433 ± 29.891 $\chi^2/\text{NDF}: 7089.5/86$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



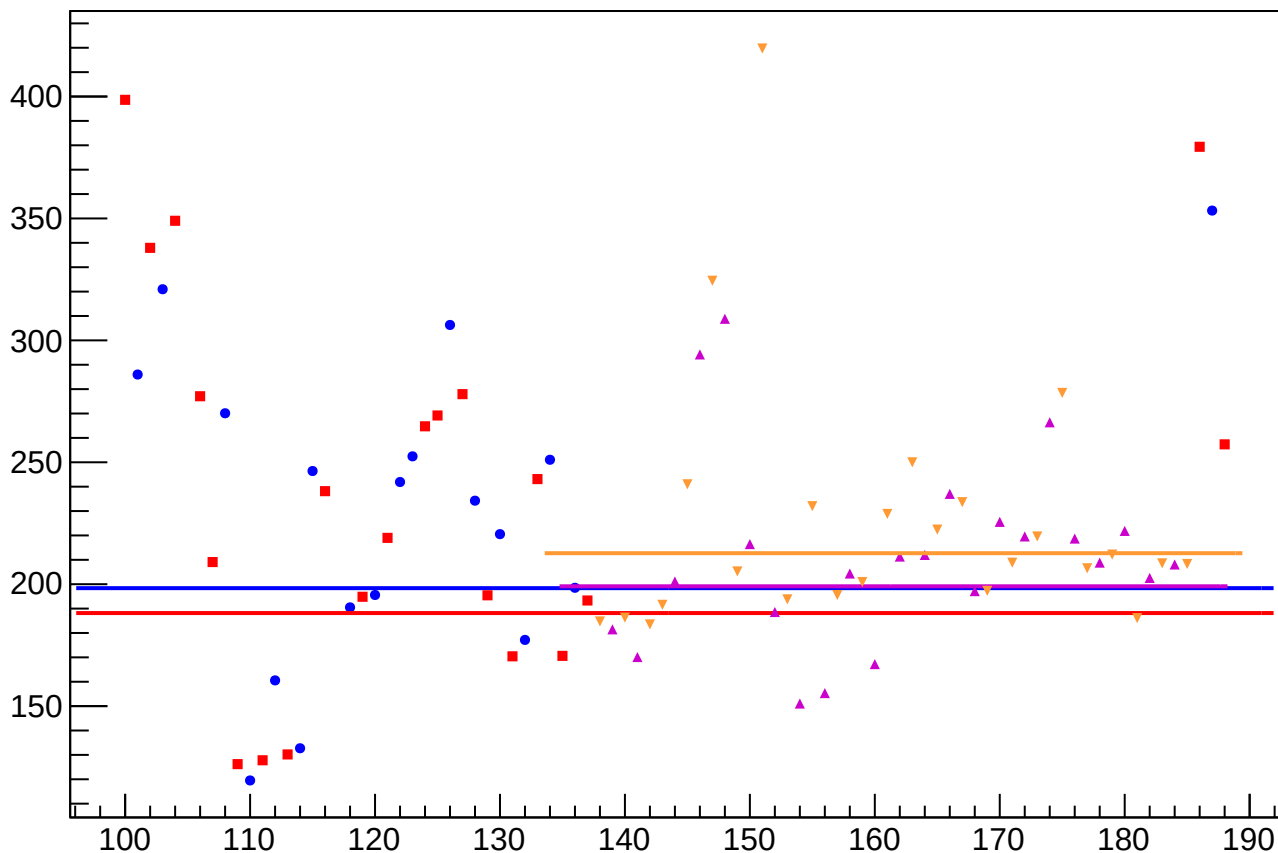
asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -354.657 ± 80.048 $\chi^2/\text{NDF}: 437.7/17$
 Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$
 Right Out: 170.763 ± 69.830 $\chi^2/\text{NDF}: 3674.4/20$
 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: -56.290 ± 52.621 $\chi^2/\text{NDF}: 4136.6/38$
 In: 157.891 ± 41.987 $\chi^2/\text{NDF}: 1727.3/40$
 Out: 523.775 ± 41.053 $\chi^2/\text{NDF}: 5645.8/45$
 All: 344.948 ± 29.354 $\chi^2/\text{NDF}: 7411.9/86$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 198.383 ± 0.057 χ^2/NDF : 967823.0/17

Left Out: 212.718 ± 0.036 χ^2/NDF : 916225.9/24

Right Out: 188.170 ± 0.049 χ^2/NDF : 1684372.1/20

Left In: 199.142 ± 0.035 χ^2/NDF : 985932.4/22

Left: 205.736 ± 0.025 χ^2/NDF : 1975772.3/47

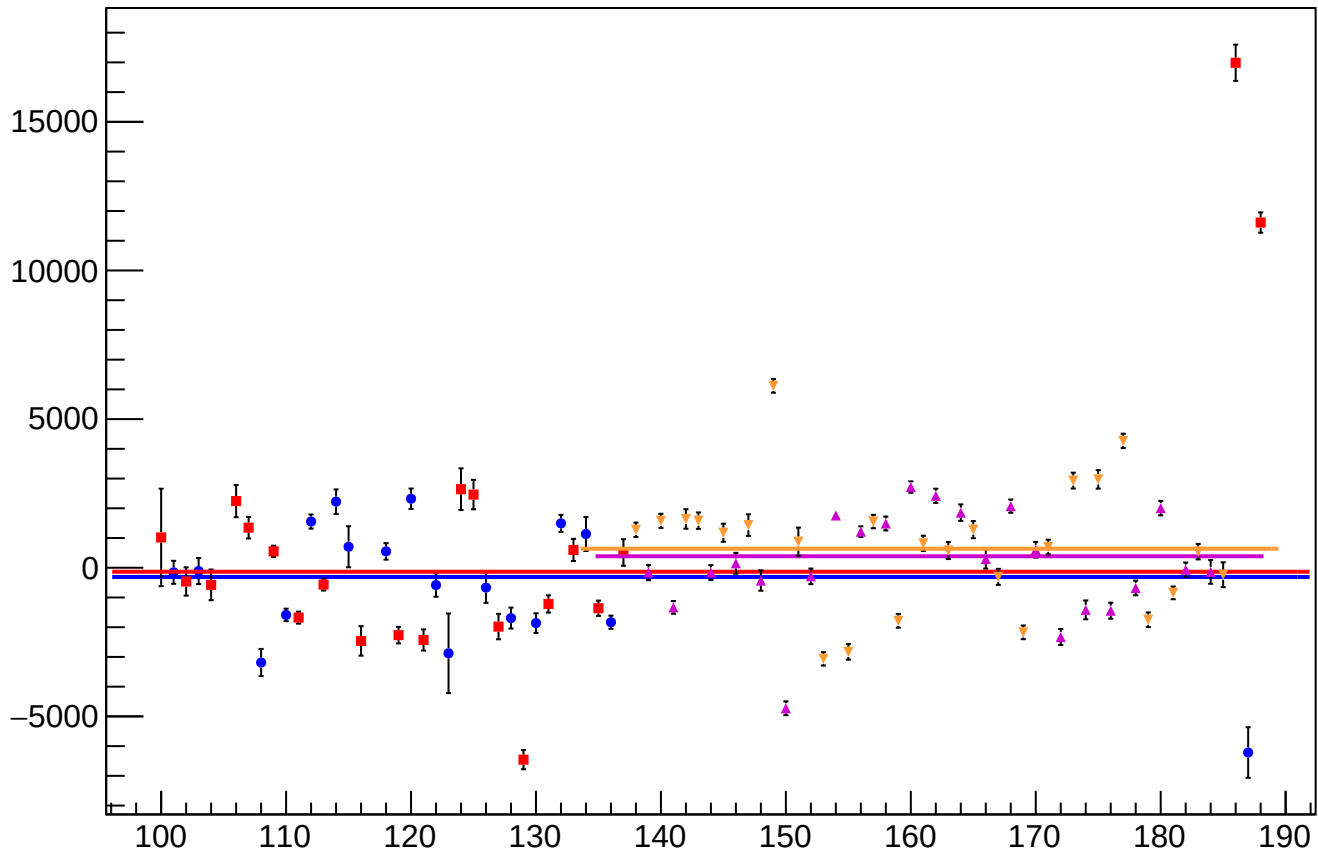
Right: 192.583 ± 0.037 χ^2/NDF : 2670681.7/38

In: 198.933 ± 0.030 χ^2/NDF : 1953885.8/40

Out: 204.234 ± 0.029 χ^2/NDF : 2762336.2/45

All: 201.643 ± 0.021 χ^2/NDF : 4732516.7/86

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -310.748+/-81.221 χ^2/NDF : 430.5/17

Left Out: 639.995+/-52.708 χ^2/NDF :1859.2/24

Right Out: -134.384+/-71.985 χ^2/NDF : 2689.1/20

Left In: 386.248+/-50.994 χ^2/NDF :1238.0/22

Left: 508.926+/-36.649 χ^2/NDF : 3109.2/47

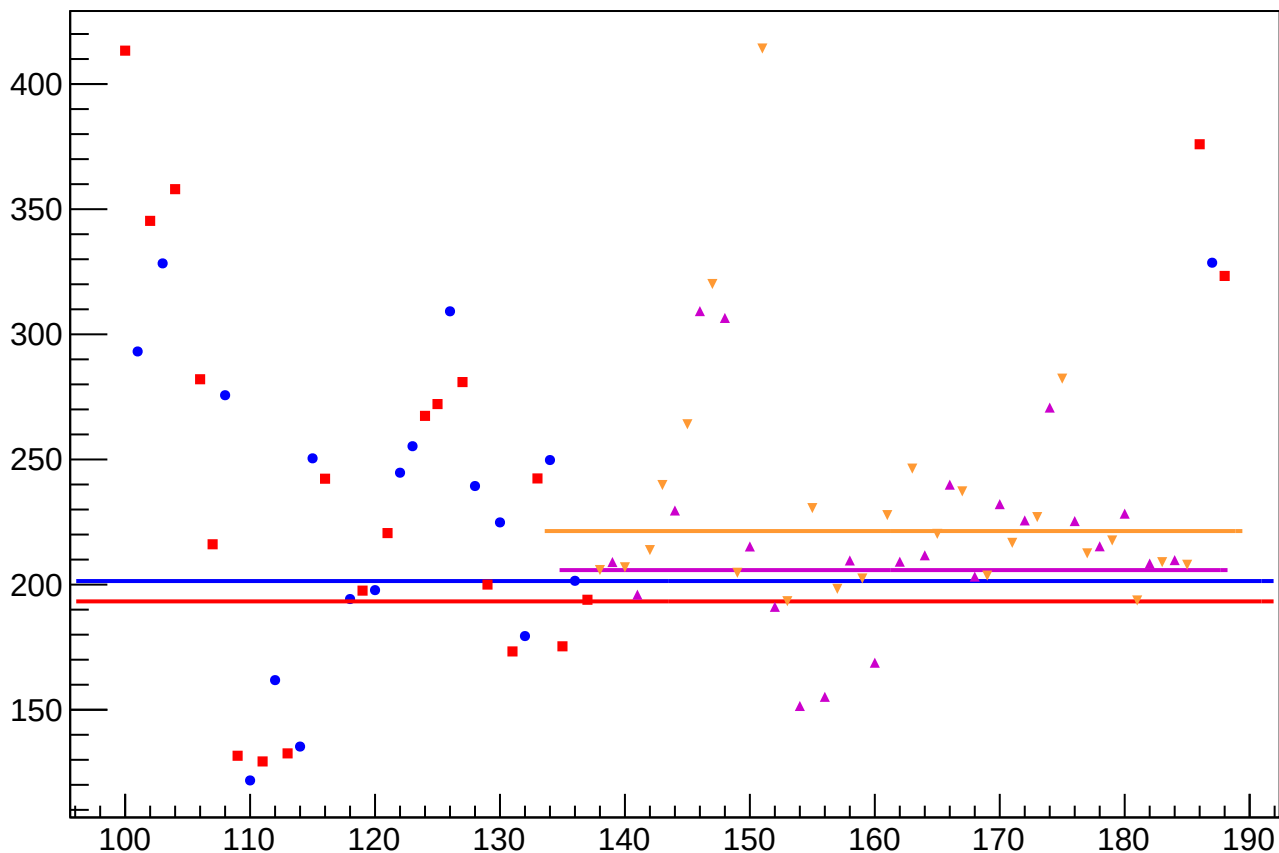
Right: -211.972+/-53.872 χ^2/NDF : 3122.2/38

In: 189.184+/-43.187 χ^2/NDF :1721.3/40

Out: 369.722+/-42.527 χ^2/NDF :4623.6/45

All: 280.844+/-30.302 χ^2/NDF : 6353.8/86

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 201.426 ± 0.057 χ^2/NDF : 961032.4/17

Left Out: 221.398 ± 0.037 χ^2/NDF : 777833.8/24

Right Out: 193.298 ± 0.051 χ^2/NDF : 1810051.9/20

Left In: 205.803 ± 0.036 χ^2/NDF : 994903.5/22

Left: 213.343 ± 0.026 χ^2/NDF : 1863169.5/47

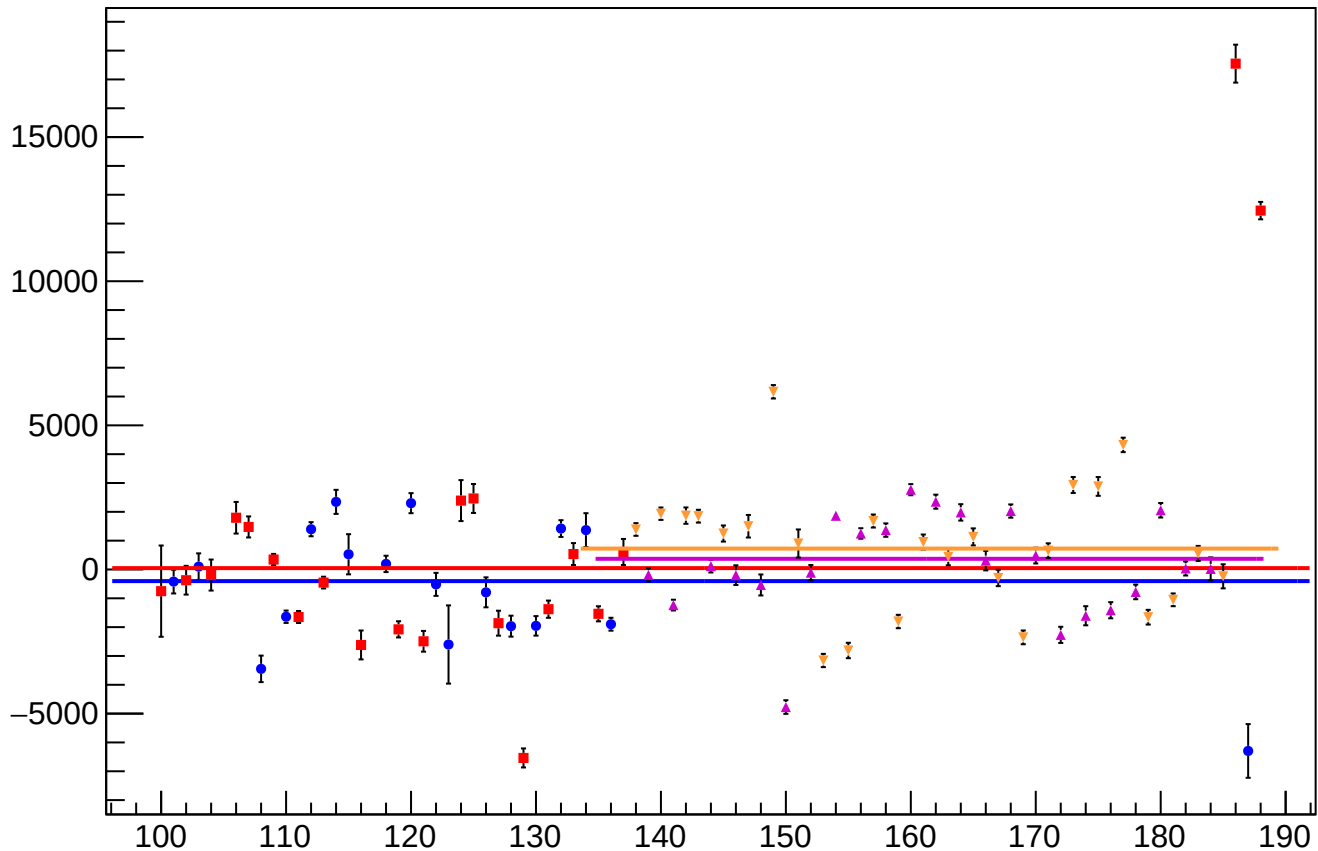
Right: 196.874 ± 0.038 χ^2/NDF : 2782302.3/38

In: 204.566 ± 0.031 χ^2/NDF : 1960102.7/40

Out: 211.591 ± 0.030 χ^2/NDF : 2786284.5/45

All: 208.132 ± 0.021 χ^2/NDF : 4773253.4/86

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -403.276 ± 82.990 $\chi^2/\text{NDF}: 418.9/17$

Left Out: 725.250 ± 52.307 $\chi^2/\text{NDF}: 1883.1/24$

Right Out: 47.343 ± 72.987 $\chi^2/\text{NDF}: 3144.0/20$

Left In: 370.408 ± 50.884 $\chi^2/\text{NDF}: 1223.2/22$

Left: 542.938 ± 36.473 $\chi^2/\text{NDF}: 3129.9/47$

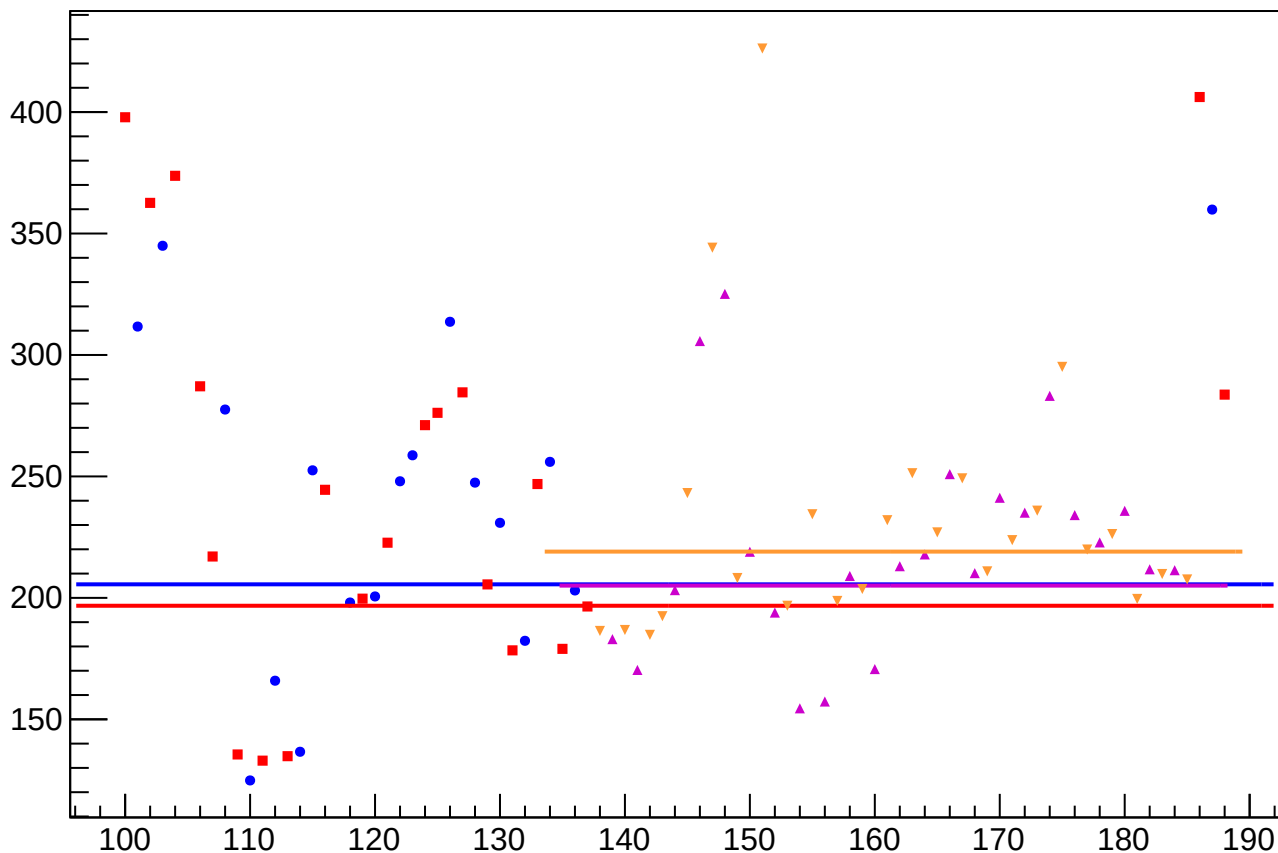
Right: -149.188 ± 54.807 $\chi^2/\text{NDF}: 3579.6/38$

In: 159.018 ± 43.380 $\chi^2/\text{NDF}: 1705.2/40$

Out: 495.219 ± 42.516 $\chi^2/\text{NDF}: 5084.2/45$

All: 330.497 ± 30.364 $\chi^2/\text{NDF}: 6820.0/86$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.577 ± 0.059 $\chi^2/\text{NDF}: 1000238.2/17$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 196.757 ± 0.052 $\chi^2/\text{NDF}: 1702855.4/20$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

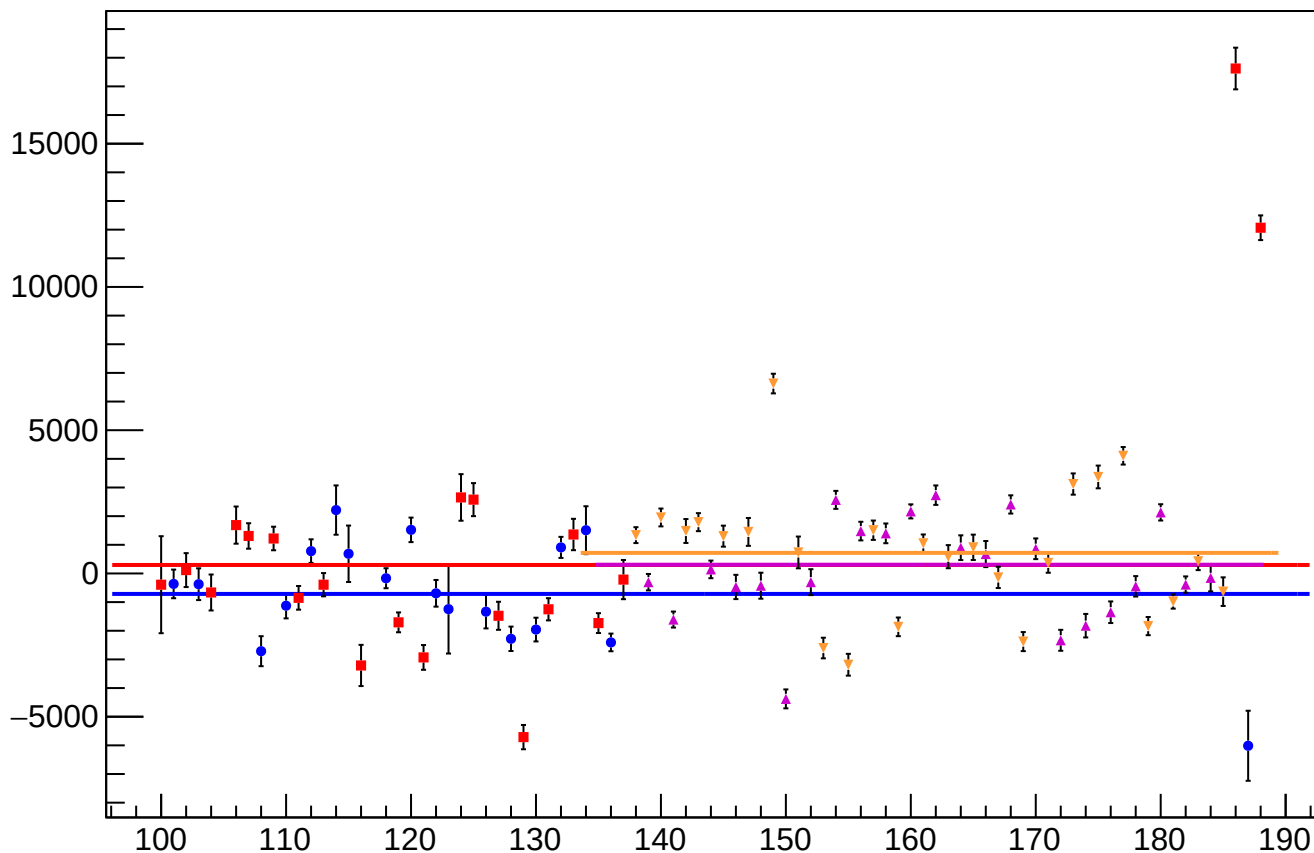
Right: 200.604 ± 0.039 $\chi^2/\text{NDF}: 2715831.6/38$

In: 205.192 ± 0.031 $\chi^2/\text{NDF}: 2144494.8/40$

Out: 211.485 ± 0.030 $\chi^2/\text{NDF}: 2801672.3/45$

All: 208.401 ± 0.021 $\chi^2/\text{NDF}: 4967635.2/86$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -714.349 ± 113.695 χ^2/NDF : 172.3/17

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 296.273 ± 106.198 χ^2/NDF : 1747.3/20

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

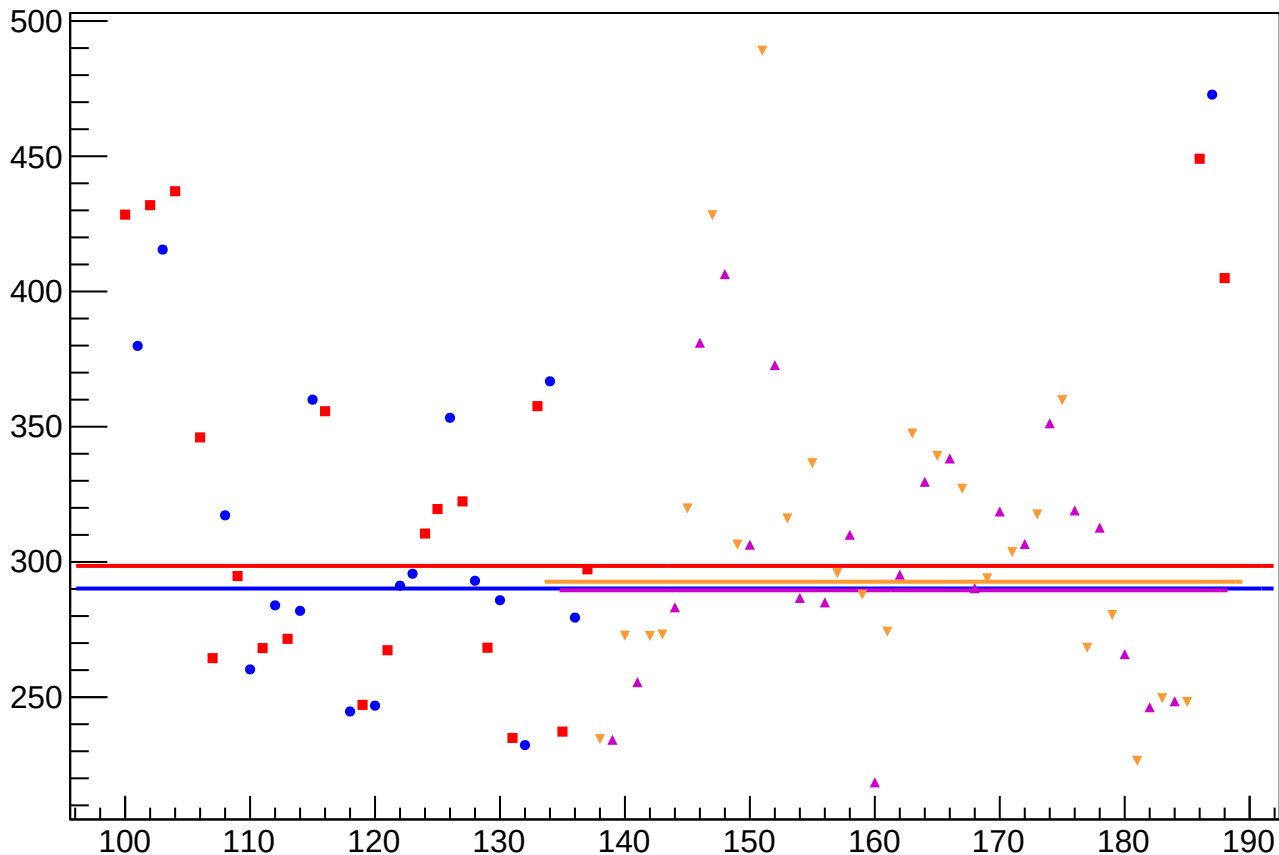
Right: -174.625 ± 77.608 χ^2/NDF : 1961.8/38

In: 18.650 ± 60.196 χ^2/NDF : 873.6/40

Out: 591.778 ± 58.213 χ^2/NDF : 2776.9/45

All: 314.812 ± 41.846 χ^2/NDF : 3697.3/86

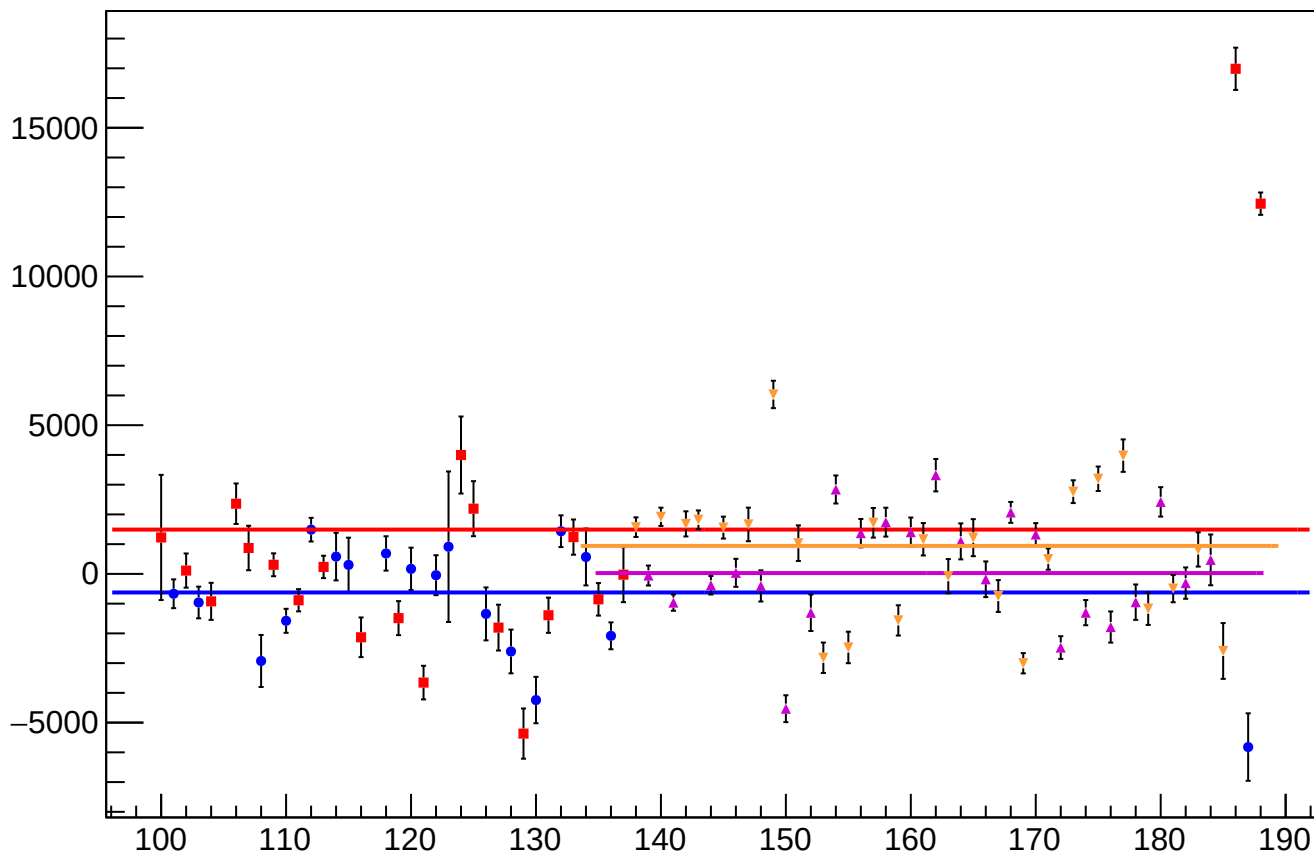
asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 290.170+/-0.080 χ^2/NDF : 383802.4/17
 Left Out: 292.686+/-0.049 χ^2/NDF : 925193.6/24
 Right Out: 298.532+/-0.075 χ^2/NDF : 685714.5/20
 Left In: 289.522+/-0.050 χ^2/NDF : 777901.0/22

Left: 291.134+/-0.035 χ^2/NDF : 1705121.5/47
 Right: 294.636+/-0.055 χ^2/NDF : 1075295.2/38
 In: 289.703+/-0.043 χ^2/NDF : 1161750.1/40
 Out: 294.442+/-0.041 χ^2/NDF : 1615148.1/45
 All: 292.152+/-0.030 χ^2/NDF : 2783304.1/86

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -624.491 $\pm$ 146.338 χ^2/NDF : 129.2/17

Left Out: 941.598 $\pm$ 89.119 χ^2/NDF : 544.6/24

Right Out: 1490.004 $\pm$ 125.669 χ^2/NDF : 1683.3/20

Left In: 27.763 $\pm$ 92.331 χ^2/NDF : 362.5/22

Left: 500.853 $\pm$ 64.122 χ^2/NDF : 957.8/47

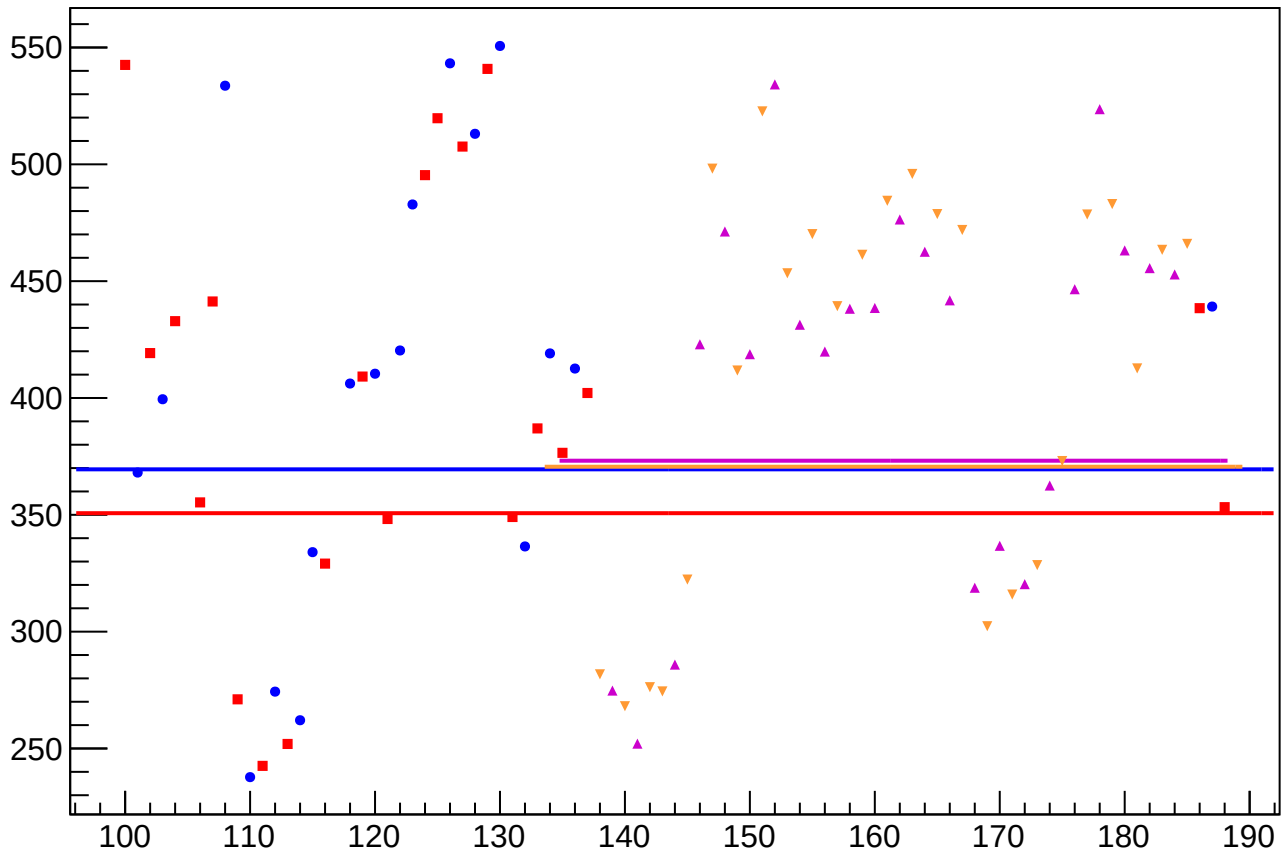
Right: 592.515 $\pm$ 95.339 χ^2/NDF : 1932.7/38

In: -157.958 $\pm$ 78.087 χ^2/NDF : 506.0/40

Out: 1125.107 $\pm$ 72.695 χ^2/NDF : 2240.6/45

All: 529.402 $\pm$ 53.207 χ^2/NDF : 2891.2/86

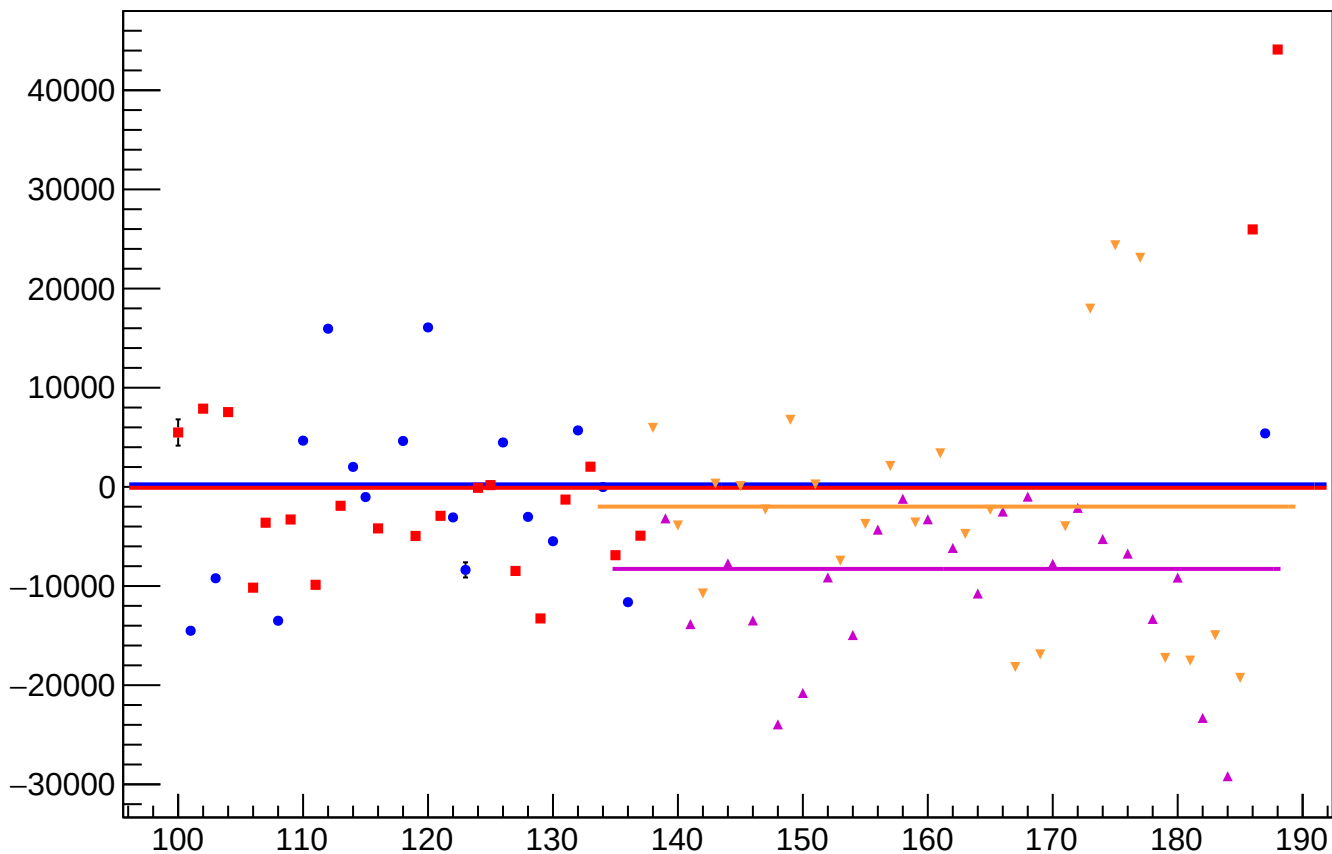
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 369.466 $\pm$ 0.103 χ^2/NDF : 773086.0/17
 Left Out: 370.580 $\pm$ 0.063 χ^2/NDF :1878118.9/24
 Right Out: 350.701 $\pm$ 0.089 χ^2/NDF : 848283.9/20
 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: 358.666 $\pm$ 0.067 χ^2/NDF : 1640297.1/38
 In: 372.109 $\pm$ 0.055 χ^2/NDF :2410242.2/40
 Out: 363.928 $\pm$ 0.051 χ^2/NDF :2759700.2/45
 All: 367.726 $\pm$ 0.038 χ^2/NDF : 5181702.2/86

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 252.866 $\pm$ 54.505 χ^2/NDF : 30790.4/17

Left Out: -1991.788 $\pm$ 42.427 χ^2/NDF :63766.6/24

Right Out: -92.458 $\pm$ 49.674 χ^2/NDF : 79880.3/20

Left In: -8273.228 $\pm$ 44.301 χ^2/NDF :22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2/NDF : 97123.2/47

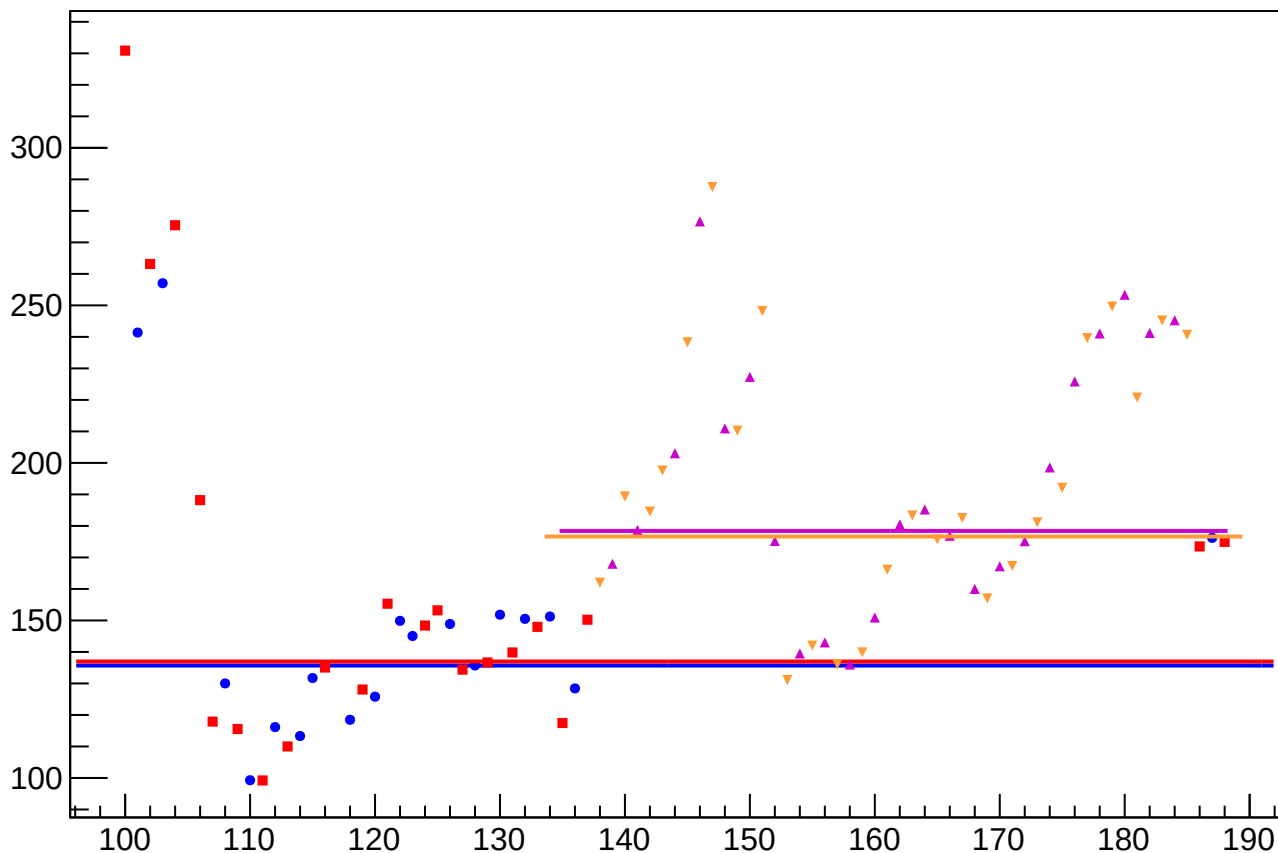
Right: 64.225 $\pm$ 36.714 χ^2/NDF : 110692.7/38

In: -4881.400 $\pm$ 34.378 χ^2/NDF :68395.7/40

Out: -1190.662 $\pm$ 32.261 χ^2/NDF :144492.2/45

All: -2918.920 $\pm$ 23.525 χ^2/NDF : 219016.5/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.683 $\pm$ 0.039 χ^2 /NDF: 673595.0/17

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 136.968 $\pm$ 0.035 χ^2 /NDF: 959093.6/20

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

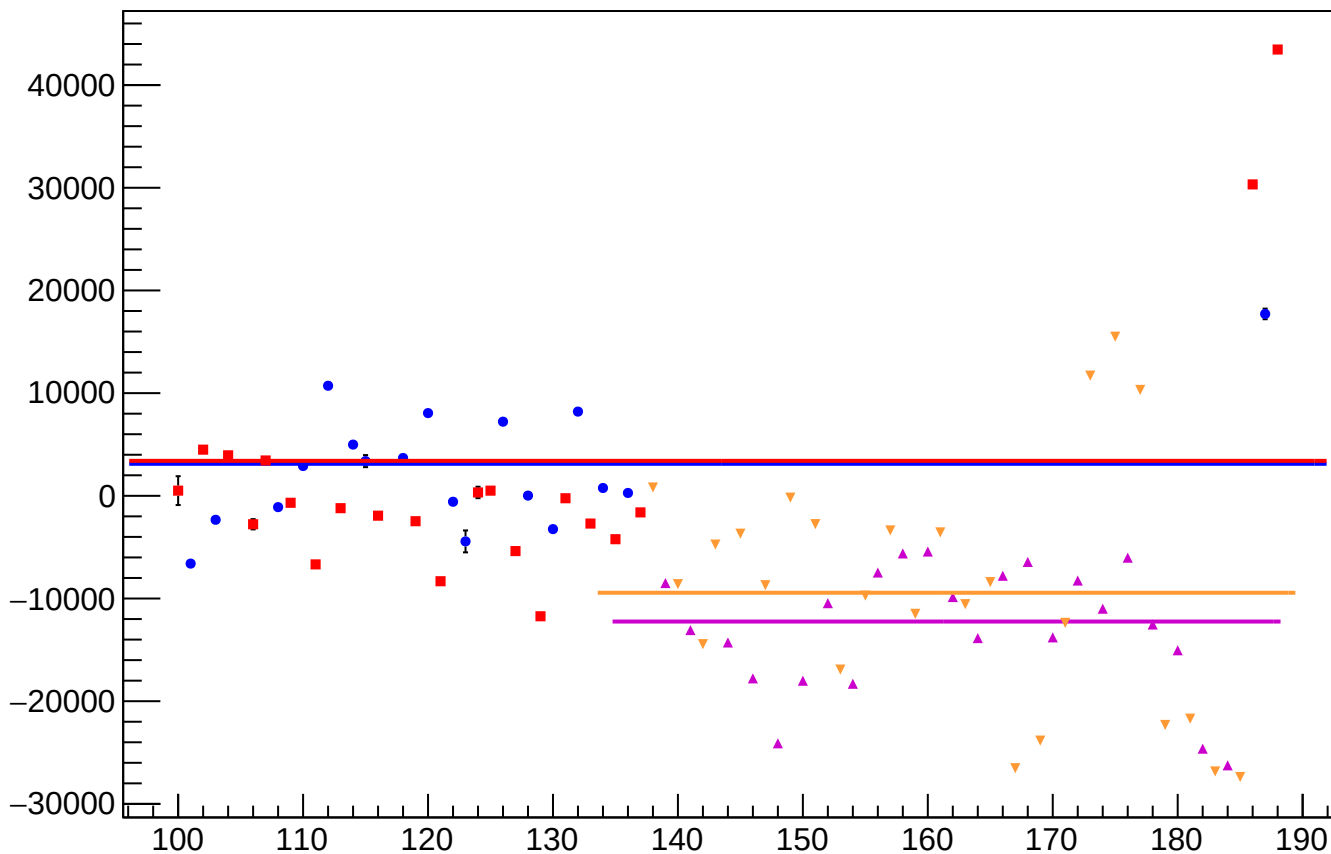
Right: 136.385 $\pm$ 0.026 χ^2 /NDF: 1633296.1/38

In: 161.414 $\pm$ 0.024 χ^2 /NDF:2707554.7/40

Out: 159.907 $\pm$ 0.023 χ^2 /NDF:3247770.3/45

All: 160.613 $\pm$ 0.017 χ^2 /NDF: 5957369.4/86

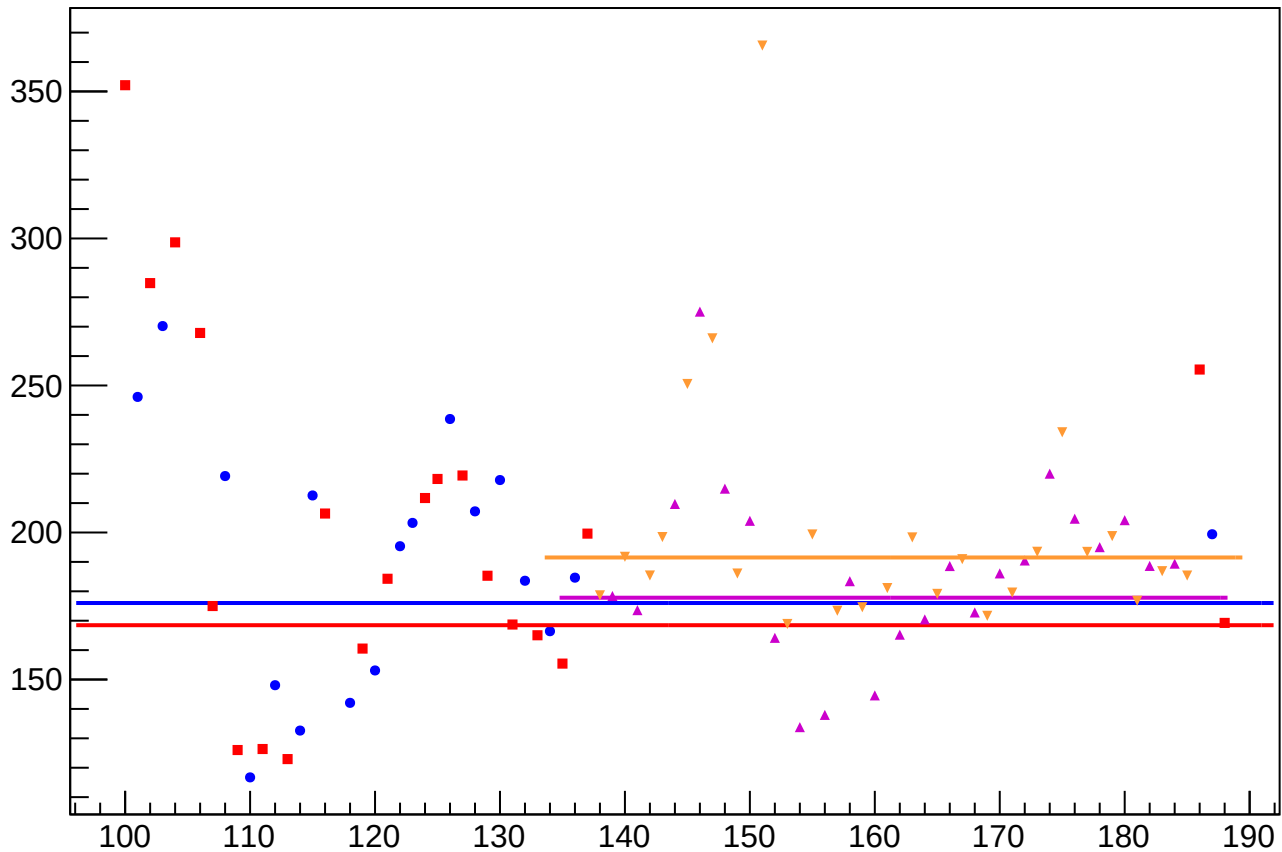
asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 3120.005+/-70.238 χ^2/NDF : 4970.3/17
 Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24
 Right Out: 3406.433+/-61.030 χ^2/NDF : 65720.1/20
 Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47
 Right: 3283.213+/-46.069 χ^2/NDF : 70699.8/38
 In: -7920.540+/-37.254 χ^2/NDF : 55965.6/40
 Out: -4844.462+/-36.496 χ^2/NDF : 156392.1/45
 All: -6350.880+/-26.070 χ^2/NDF : 215836.8/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.021 $\pm$ 0.050 χ^2/NDF : 692014.8/17

Left Out: 191.507 $\pm$ 0.032 χ^2/NDF : 727251.6/24

Right Out: 168.471 $\pm$ 0.043 χ^2/NDF : 1016078.3/20

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

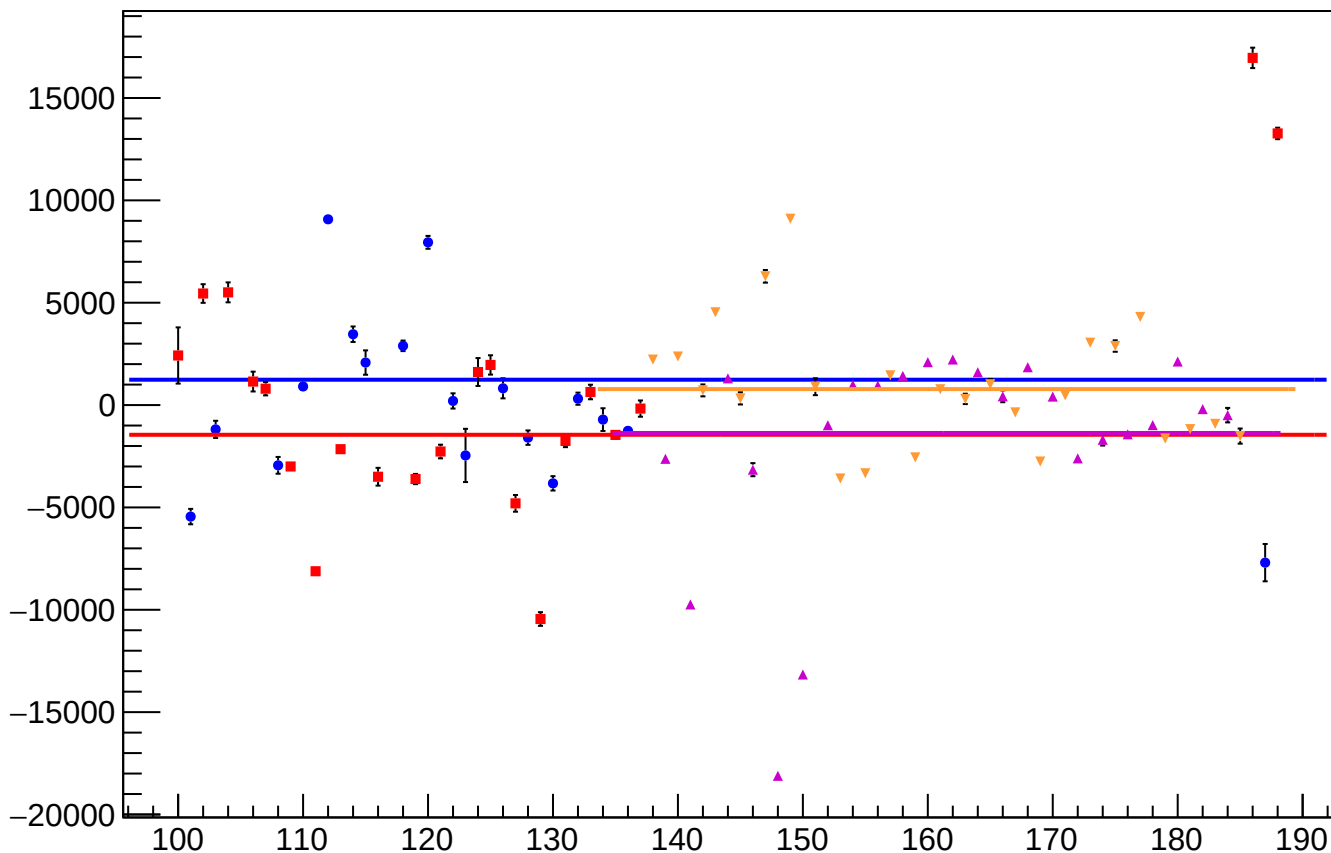
Right: 171.719 $\pm$ 0.033 χ^2/NDF : 1721258.6/38

In: 177.315 $\pm$ 0.026 χ^2/NDF : 1555453.8/40

Out: 183.269 $\pm$ 0.026 χ^2/NDF : 1926367.0/45

All: 180.353 $\pm$ 0.018 χ^2/NDF : 3507892.9/86

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1238.656 $\pm$ 77.046 χ^2 /NDF: 2746.7/17

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: -1451.389 $\pm$ 67.310 χ^2 /NDF: 6941.5/20

Left In: -1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2 /NDF: 16949.3/47

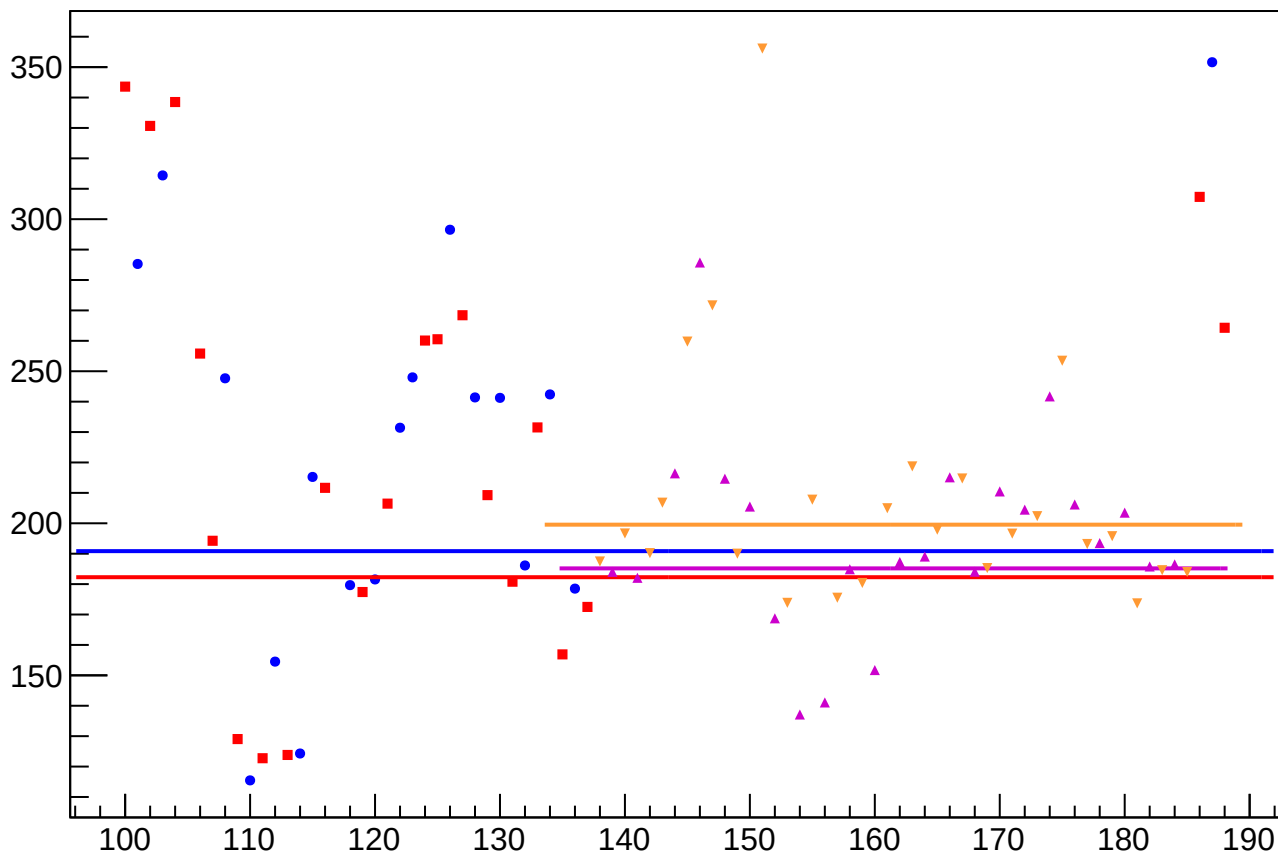
Right: -286.977 $\pm$ 50.690 χ^2 /NDF: 10379.5/38

In: -683.589 $\pm$ 39.373 χ^2 /NDF:15222.0/40

Out: 39.073 $\pm$ 38.786 χ^2 /NDF:11936.3/45

All: -316.828 $\pm$ 27.631 χ^2 /NDF: 27329.3/86

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 190.844+/-0.054 χ^2/NDF : 1039853.4/17

Left Out: 199.547+/-0.034 χ^2/NDF : 729356.3/24

Right Out: 182.270+/-0.048 χ^2/NDF : 1610863.2/20

Left In: 185.171+/-0.032 χ^2/NDF : 882752.2/22

Left: 192.104+/-0.023 χ^2/NDF : 1707122.0/47

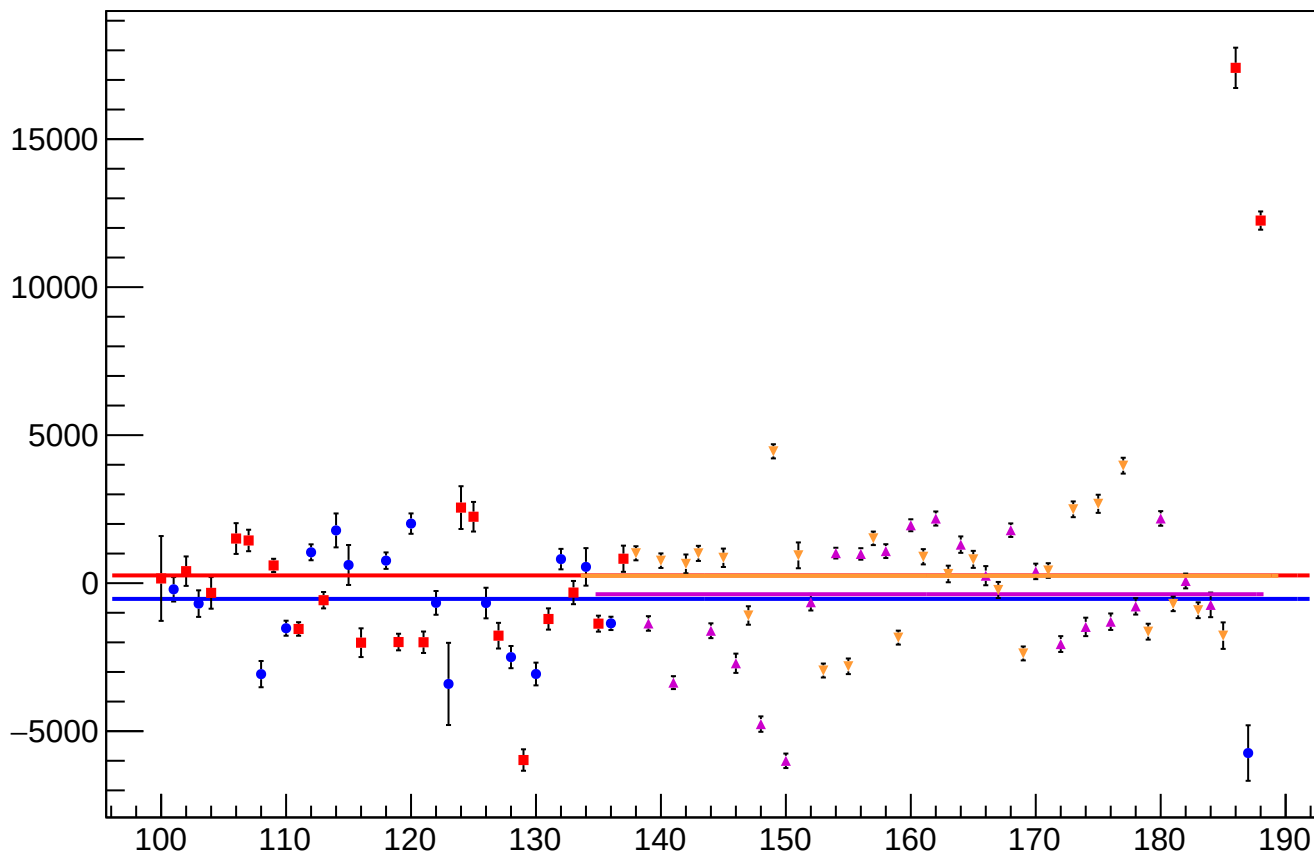
Right: 185.981+/-0.036 χ^2/NDF : 2664761.2/38

In: 186.652+/-0.028 χ^2/NDF : 1930616.9/40

Out: 193.810+/-0.027 χ^2/NDF : 2428228.5/45

All: 190.285+/-0.020 χ^2/NDF : 4392393.6/86

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -531.718+/-88.393 χ^2/NDF : 316.4/17

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 261.608+/-78.921 χ^2/NDF : 2762.3/20

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

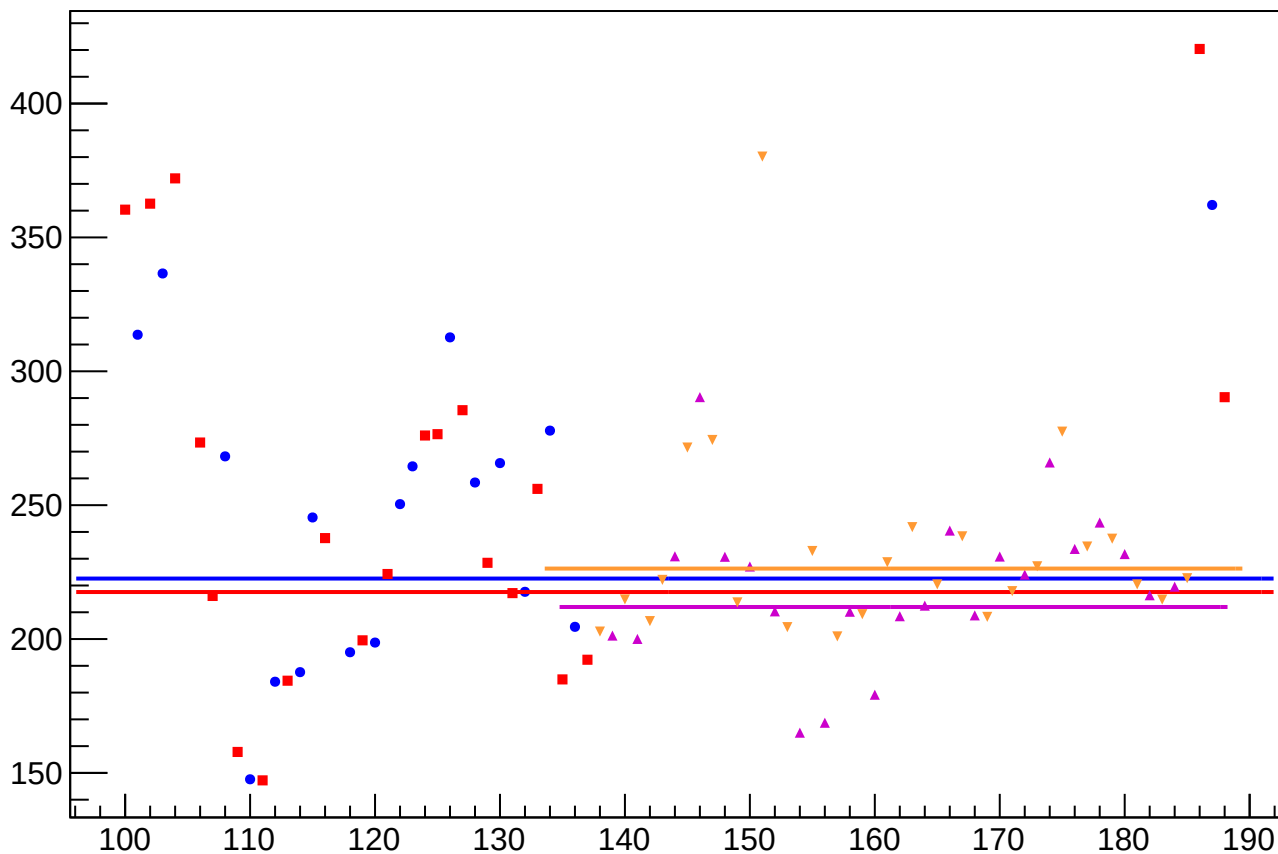
Right: -90.287+/-58.871 χ^2/NDF : 3123.6/38

In: -414.696+/-44.851 χ^2/NDF :2119.8/40

Out: 252.183+/-44.315 χ^2/NDF :4117.5/45

All: -77.248+/-31.523 χ^2/NDF : 6349.1/86

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 222.590 ± 0.063 $\chi^2/\text{NDF}: 690184.4/17$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 217.557 ± 0.056 $\chi^2/\text{NDF}: 1187469.1/20$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

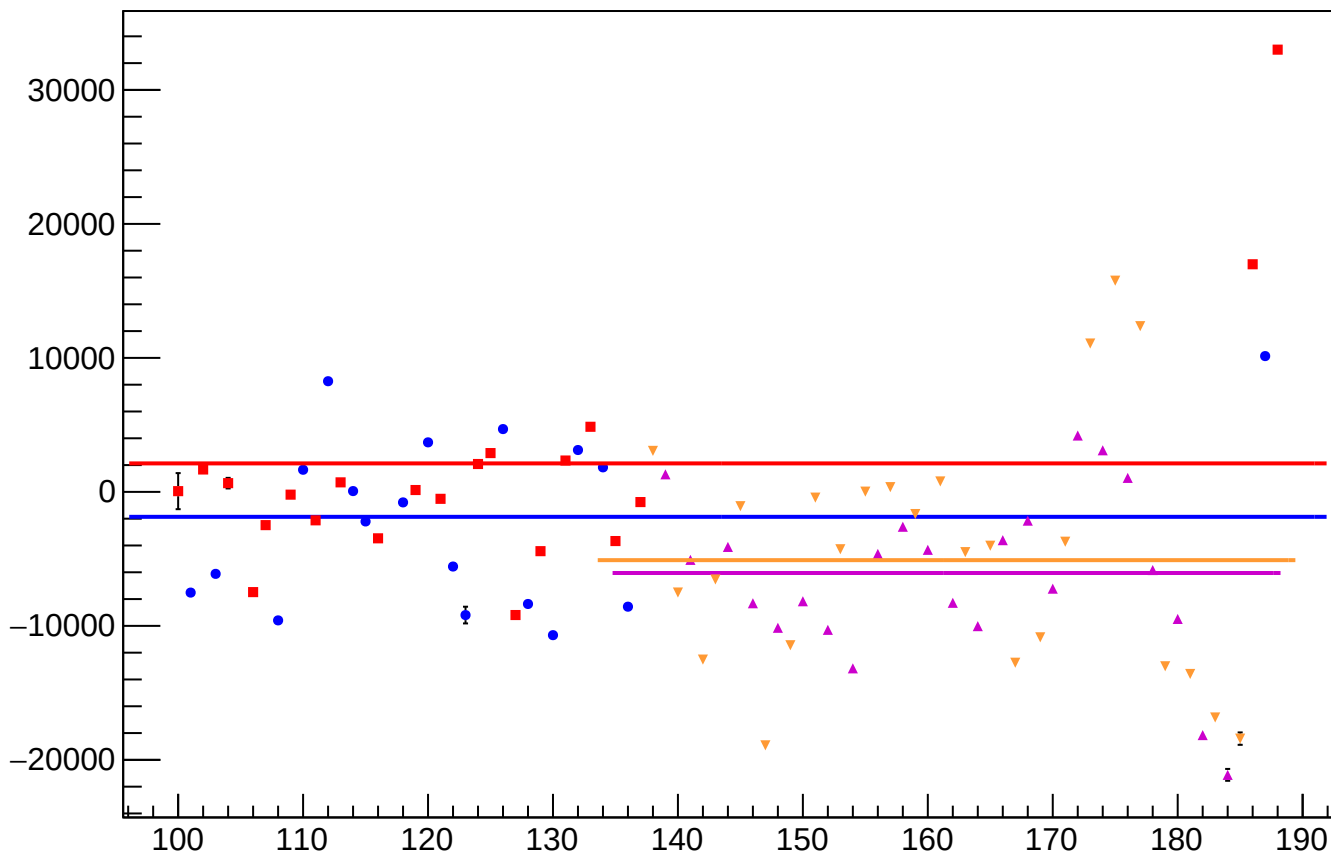
Right: 219.790 ± 0.042 $\chi^2/\text{NDF}: 1881260.6/38$

In: 214.704 ± 0.032 $\chi^2/\text{NDF}: 1295964.5/40$

Out: 223.558 ± 0.031 $\chi^2/\text{NDF}: 1725399.1/45$

All: 219.185 ± 0.022 $\chi^2/\text{NDF}: 3060803.5/86$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -1861.595 ± 47.009 $\chi^2/\text{NDF}: 17642.7/17$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 2125.844 ± 42.298 $\chi^2/\text{NDF}: 59450.8/20$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5556.386 ± 24.277 $\chi^2/\text{NDF}: 72374.6/47$

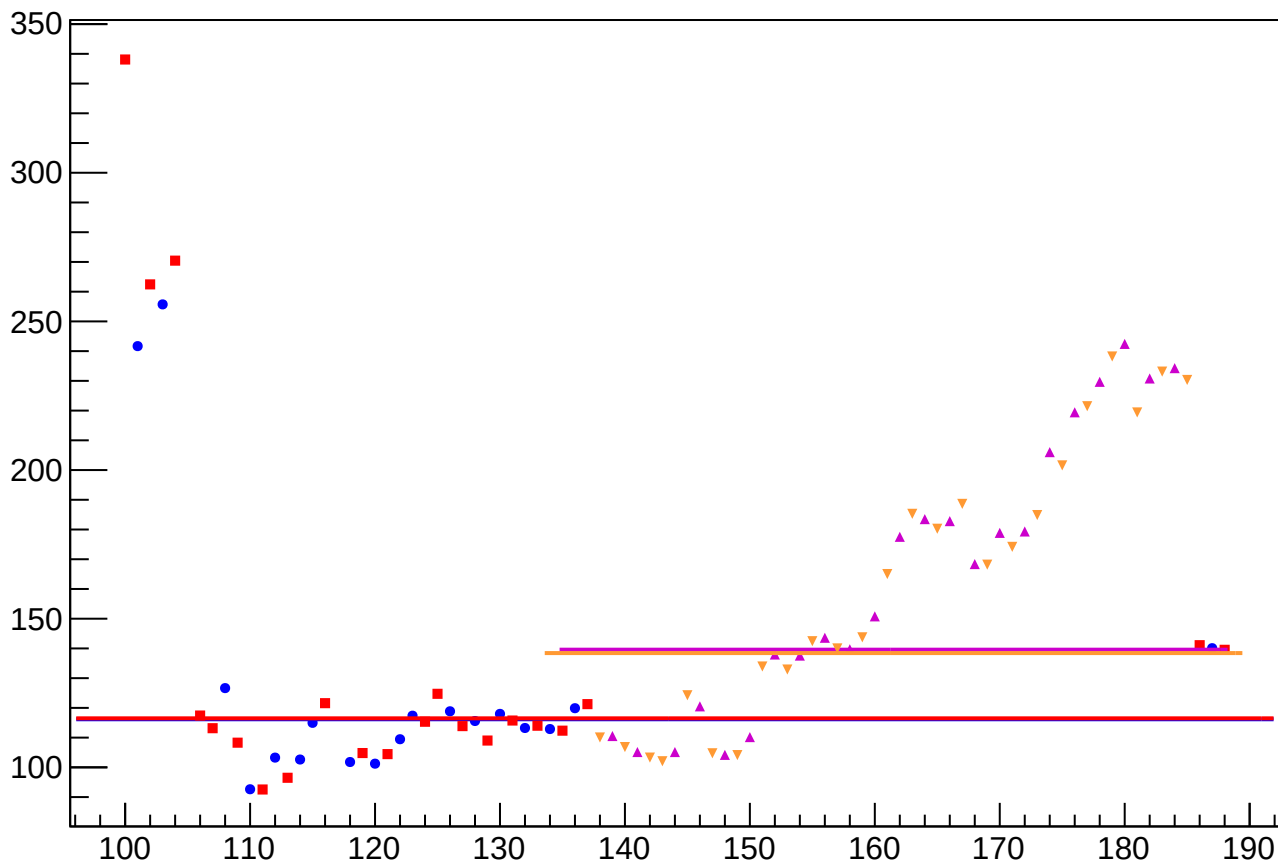
Right: 341.860 ± 31.443 $\chi^2/\text{NDF}: 81069.4/38$

In: -4558.654 ± 28.072 $\chi^2/\text{NDF}: 40349.2/40$

Out: -2291.048 ± 26.359 $\chi^2/\text{NDF}: 131673.0/45$

All: -3353.544 ± 19.216 $\chi^2/\text{NDF}: 175489.9/8$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 116.174 $\pm$ 0.033 χ^2 /NDF: 752454.3/17

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 116.486 $\pm$ 0.030 χ^2 /NDF: 876193.5/20

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

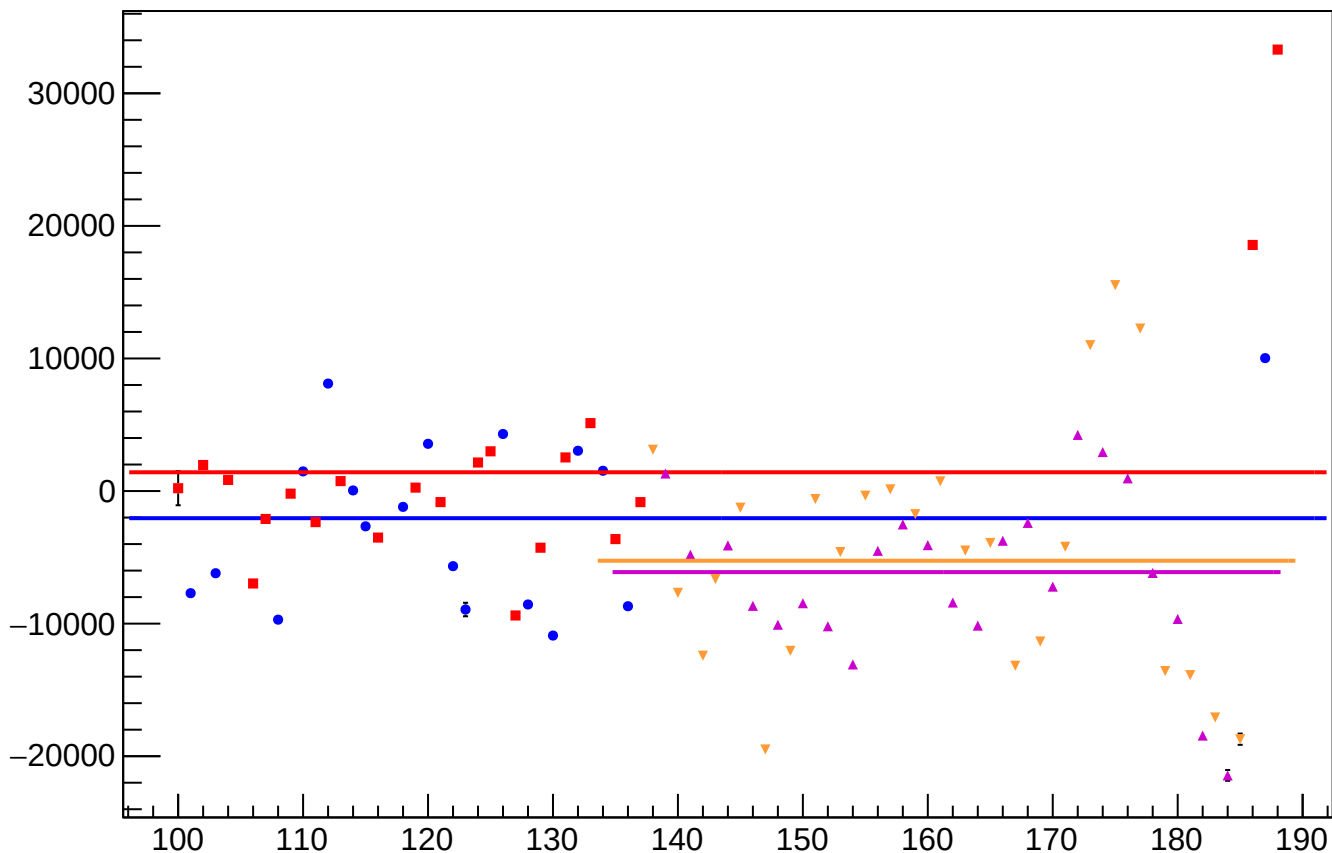
Right: 116.346 $\pm$ 0.022 χ^2 /NDF: 1628696.3/38

In: 131.232 $\pm$ 0.020 χ^2 /NDF: 3485047.7/40

Out: 129.912 $\pm$ 0.019 χ^2 /NDF: 3755054.9/45

All: 130.530 $\pm$ 0.014 χ^2 /NDF: 7242452.9/86

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2047.463+/-39.774 χ^2/NDF : 23900.8/17

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 1415.244+/-36.320 χ^2/NDF : 67543.6/20

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

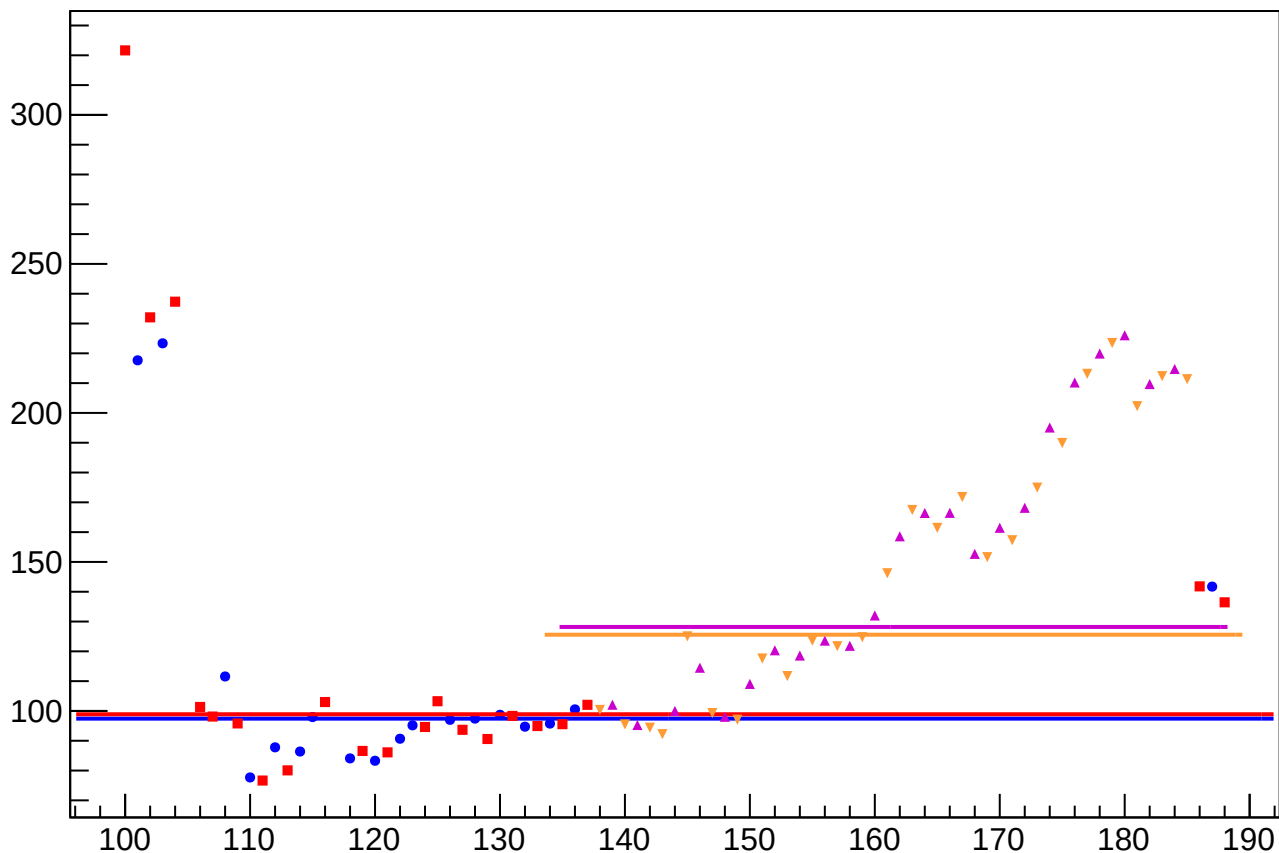
Right: -159.285+/-26.820 χ^2/NDF : 95577.4/38

In: -4509.008+/-24.992 χ^2/NDF : 51490.6/40

Out: -2483.979+/-23.412 χ^2/NDF : 151586.1/45

All: -3430.457+/-17.086 χ^2/NDF : 206573.7/8

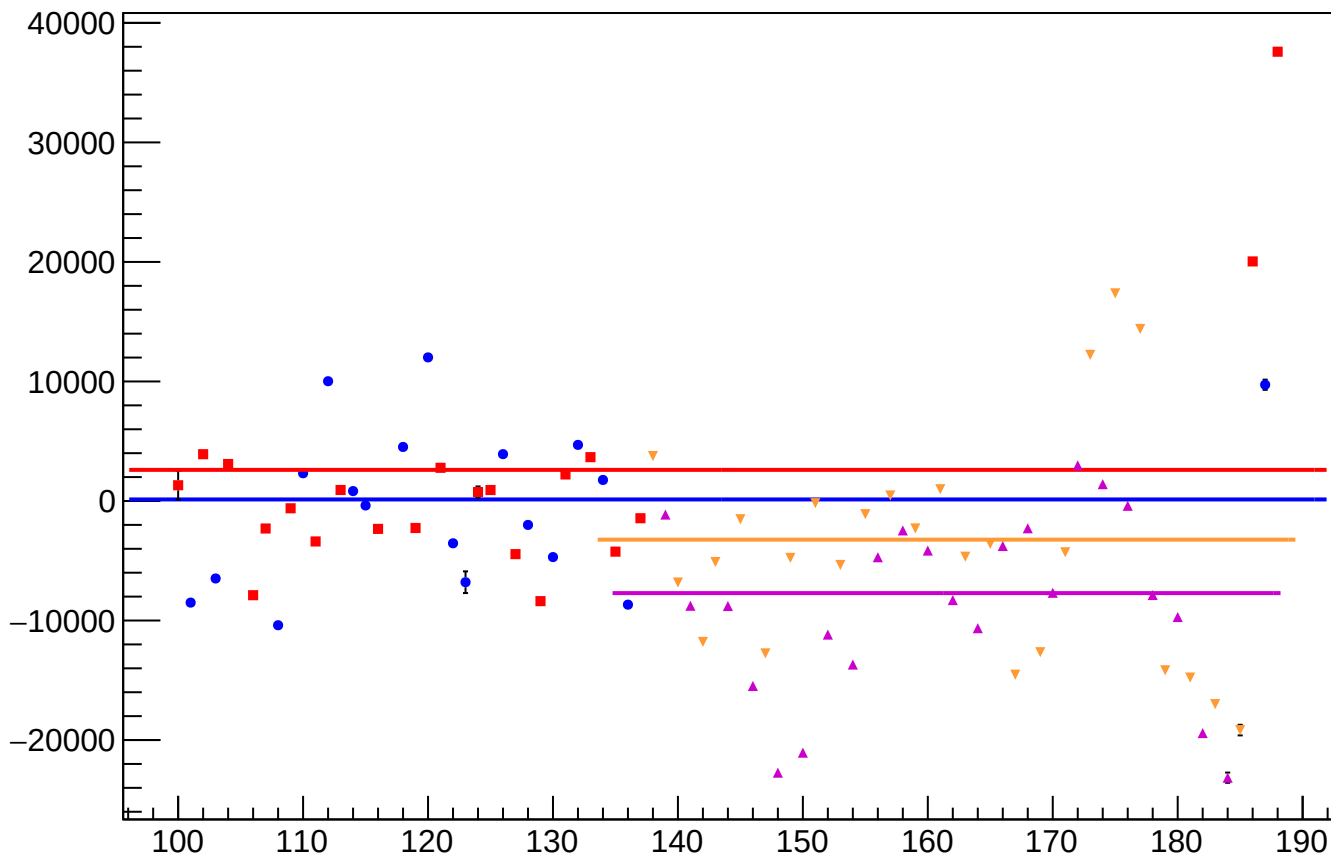
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 97.422+/-0.028 χ^2/NDF : 846590.3/17
 Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24
 Right Out: 98.892+/-0.026 χ^2/NDF : 1082106.3/20
 Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47
 Right: 98.223+/-0.019 χ^2/NDF : 1930185.4/38
 In: 116.038+/-0.018 χ^2/NDF : 3903565.1/40
 Out: 114.490+/-0.017 χ^2/NDF : 4308924.0/45
 All: 115.214+/-0.012 χ^2/NDF : 8216579.9/86

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 129.304+/-54.290 χ^2/NDF : 16875.0/17

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 2604.159+/-49.197 χ^2/NDF : 55671.5/20

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

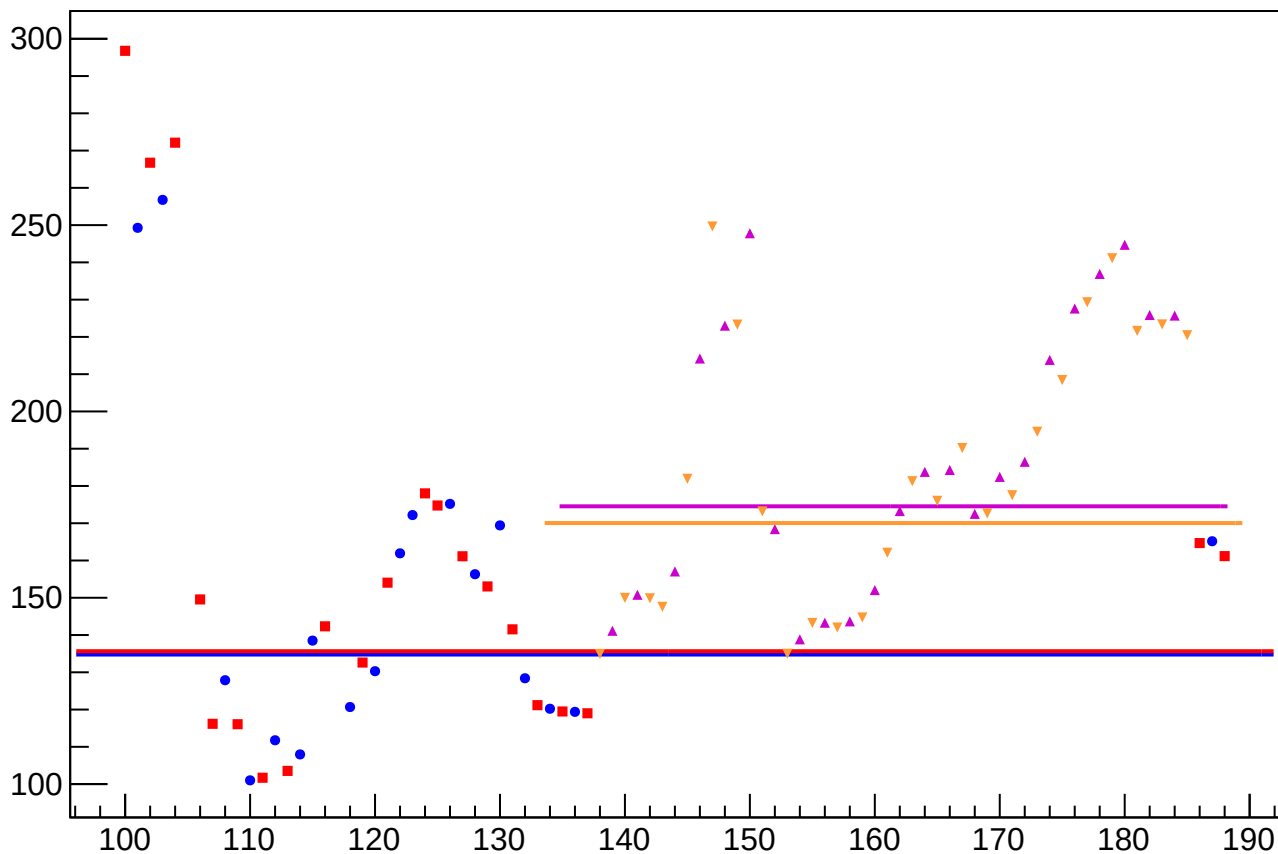
Right: 1488.236+/-36.456 χ^2/NDF : 73687.5/38

In: -4687.073+/-33.703 χ^2/NDF : 50948.5/40

Out: -870.550+/-31.306 χ^2/NDF : 100794.0/45

All: -2638.277+/-22.937 χ^2/NDF : 158626.4/8

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.767 ± 0.038 $\chi^2/\text{NDF}: 797344.7/17$

Left Out: 170.050 ± 0.029 $\chi^2/\text{NDF}: 1240866.9/24$

Right Out: 135.656 ± 0.035 $\chi^2/\text{NDF}: 942033.9/20$

Left In: 174.539 ± 0.030 $\chi^2/\text{NDF}: 1210071.2/22$

Left: 172.165 ± 0.021 $\chi^2/\text{NDF}: 2462472.2/47$

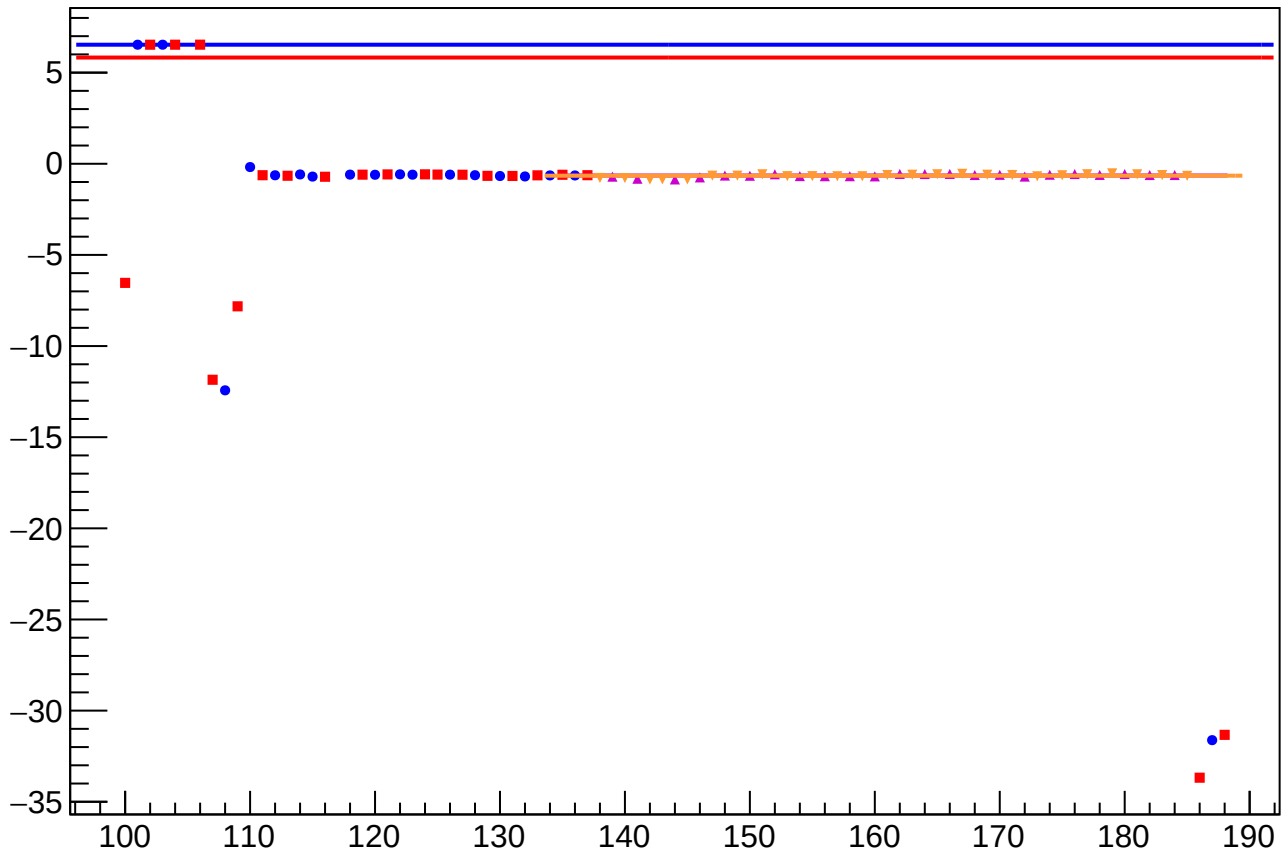
Right: 135.255 ± 0.026 $\chi^2/\text{NDF}: 1739673.2/38$

In: 159.212 ± 0.024 $\chi^2/\text{NDF}: 2667120.1/40$

Out: 156.123 ± 0.022 $\chi^2/\text{NDF}: 2764562.5/45$

All: 157.554 ± 0.016 $\chi^2/\text{NDF}: 5440699.8/86$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127579339044.5/17

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947459633464.1/20

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

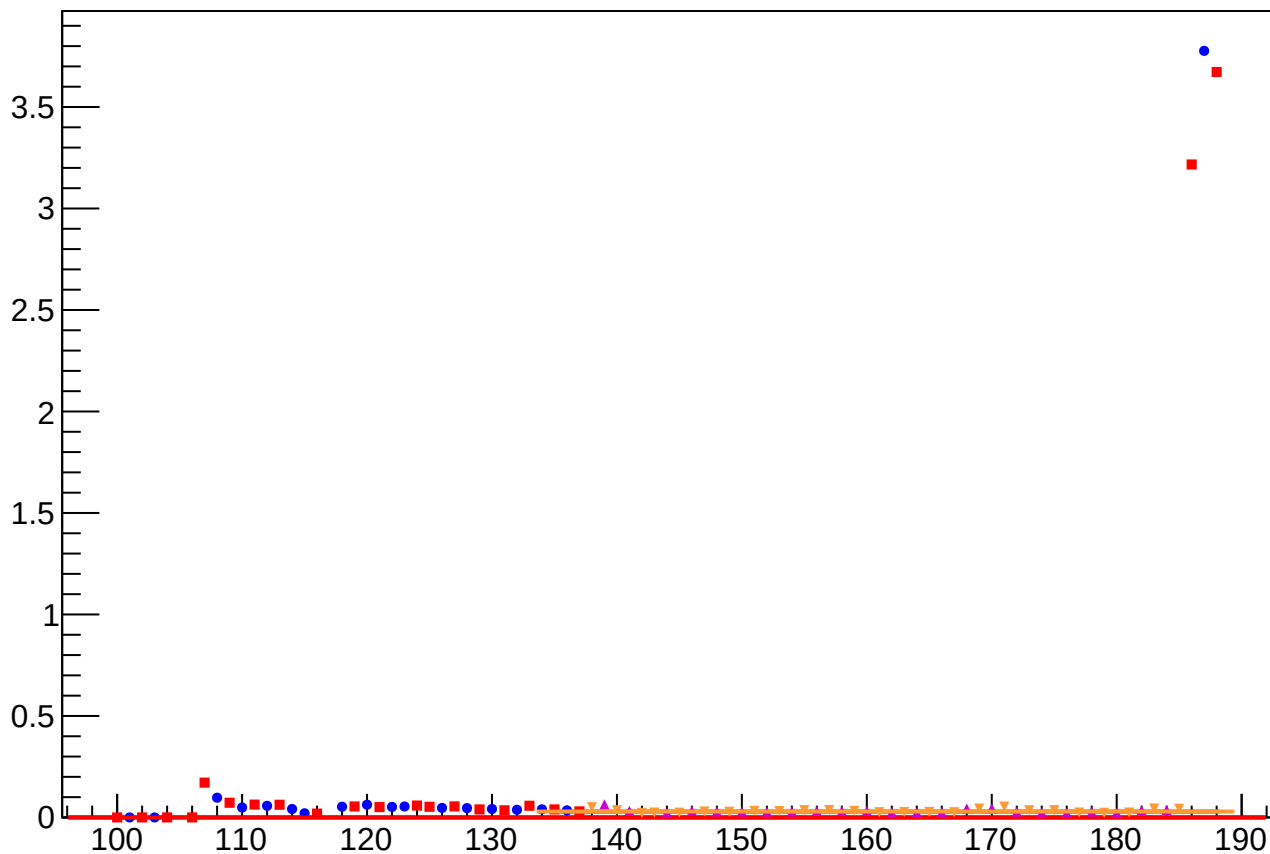
Right: 6.155+/-0.000 χ^2/NDF : 776078208506911.0/47

In: 6.530+/-0.000 χ^2/NDF : 952926755786.5/40

Out: 5.826+/-0.000 χ^2/NDF : 756656488302330.9/40

All: 6.153+/-0.000 χ^2/NDF : 77760157830919.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9286750.8/17

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11760216.4/20

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

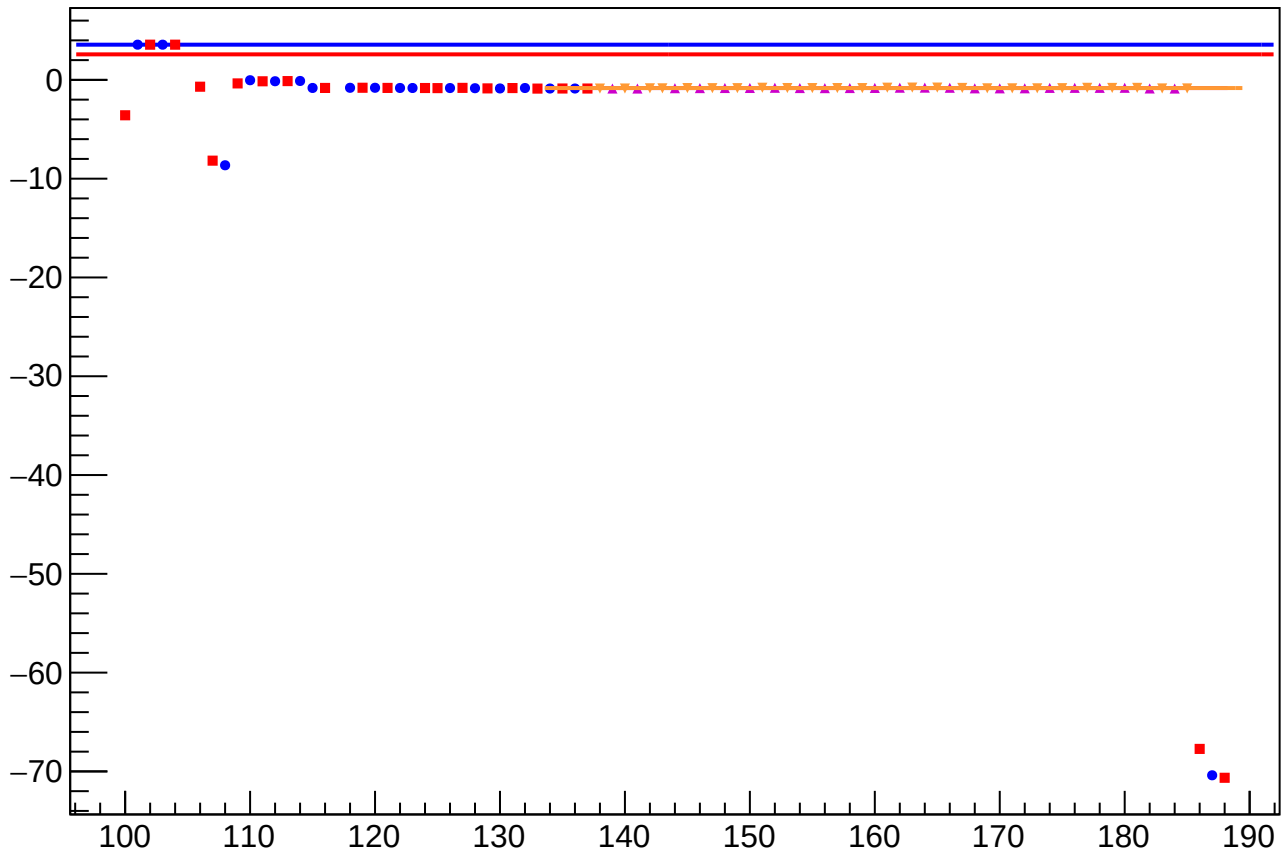
Right: 0.000+/-0.000 χ^2/NDF : 21047216.5/38

In: 0.000+/-0.000 χ^2/NDF :37248455.8/40

Out: 0.000+/-0.000 χ^2/NDF :41635910.9/45

All: 0.000+/-0.000 χ^2/NDF : 78884781.5/86

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485100131180.3/17

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253506251724814.5/20

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

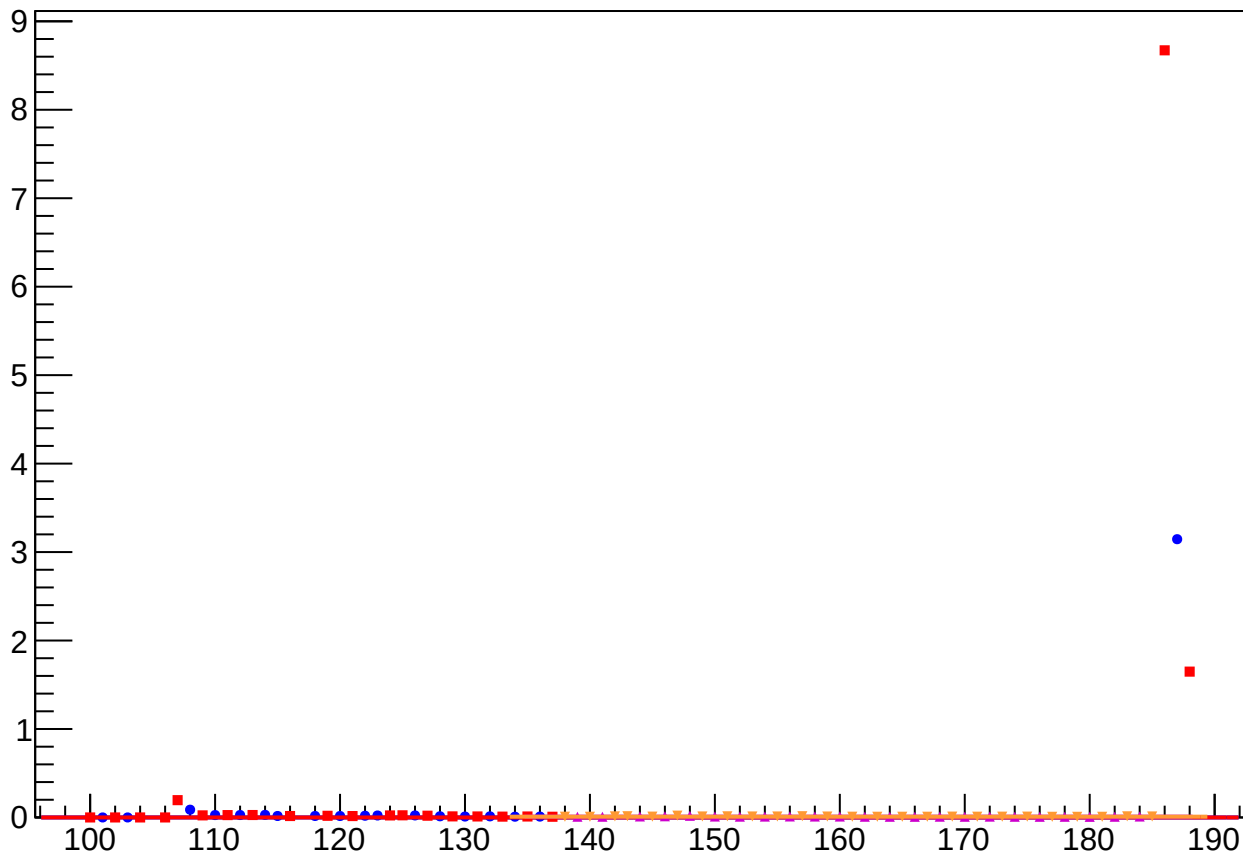
Right: 3.040+/-0.000 χ^2/NDF : 1382262559120777.0

In: 3.560+/-0.000 χ^2/NDF : 4130853550585.0/40

Out: 2.581+/-0.000 χ^2/NDF : 1255728584221219.2

All: 3.038+/-0.000 χ^2/NDF : 13879490346385.0

yield_cav4bY_rms vs Slug, Sign Corrected

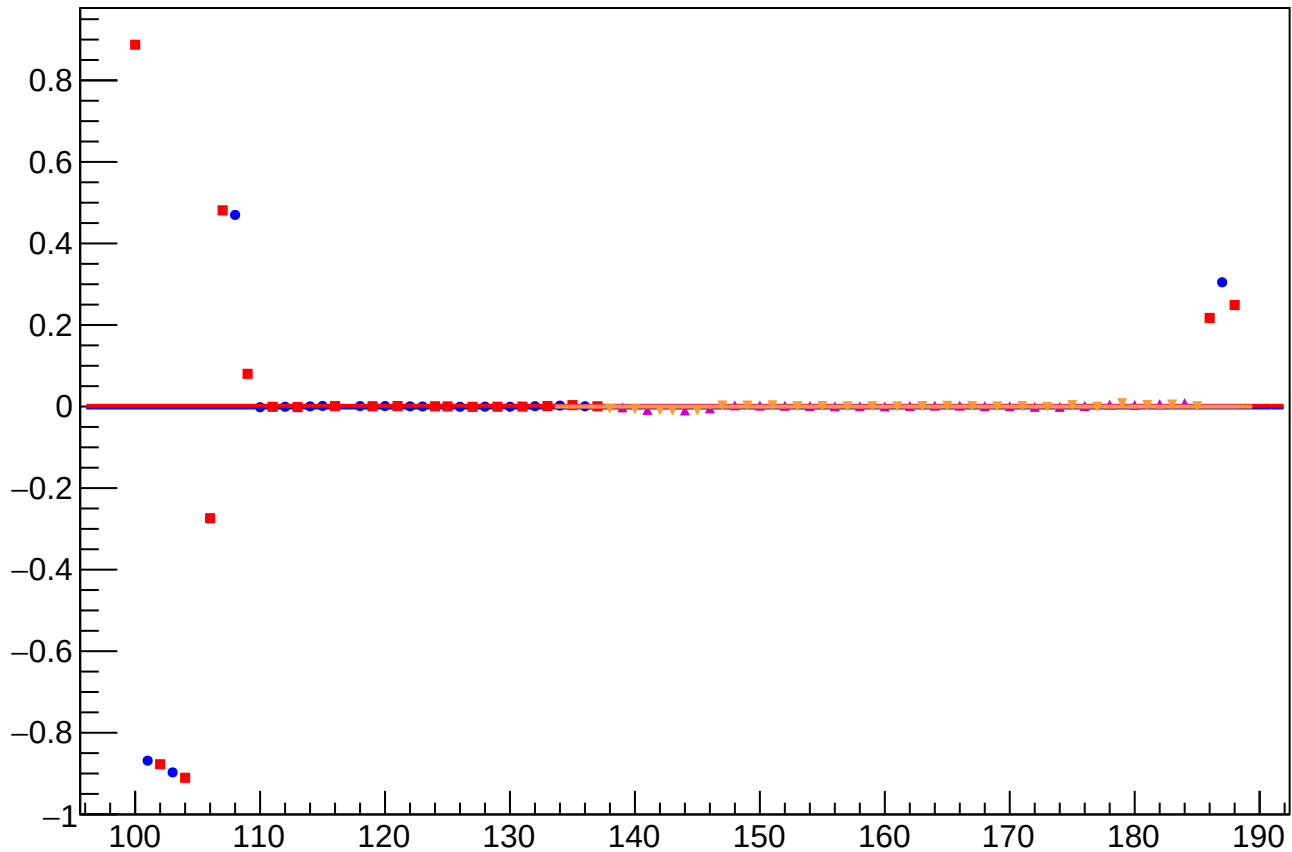


Right In: 0.000+/-0.000 χ^2/NDF : 10105701.3/17

Left Out: 0.009+/-0.000 χ^2/NDF : 1454710.9/24

Right

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 $\pm$ 0.000 χ^2 /NDF: 9795464847.3/17

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 151482851.1/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3041376029.4/20

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF: 101439617.3/22

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 254436385.6/47

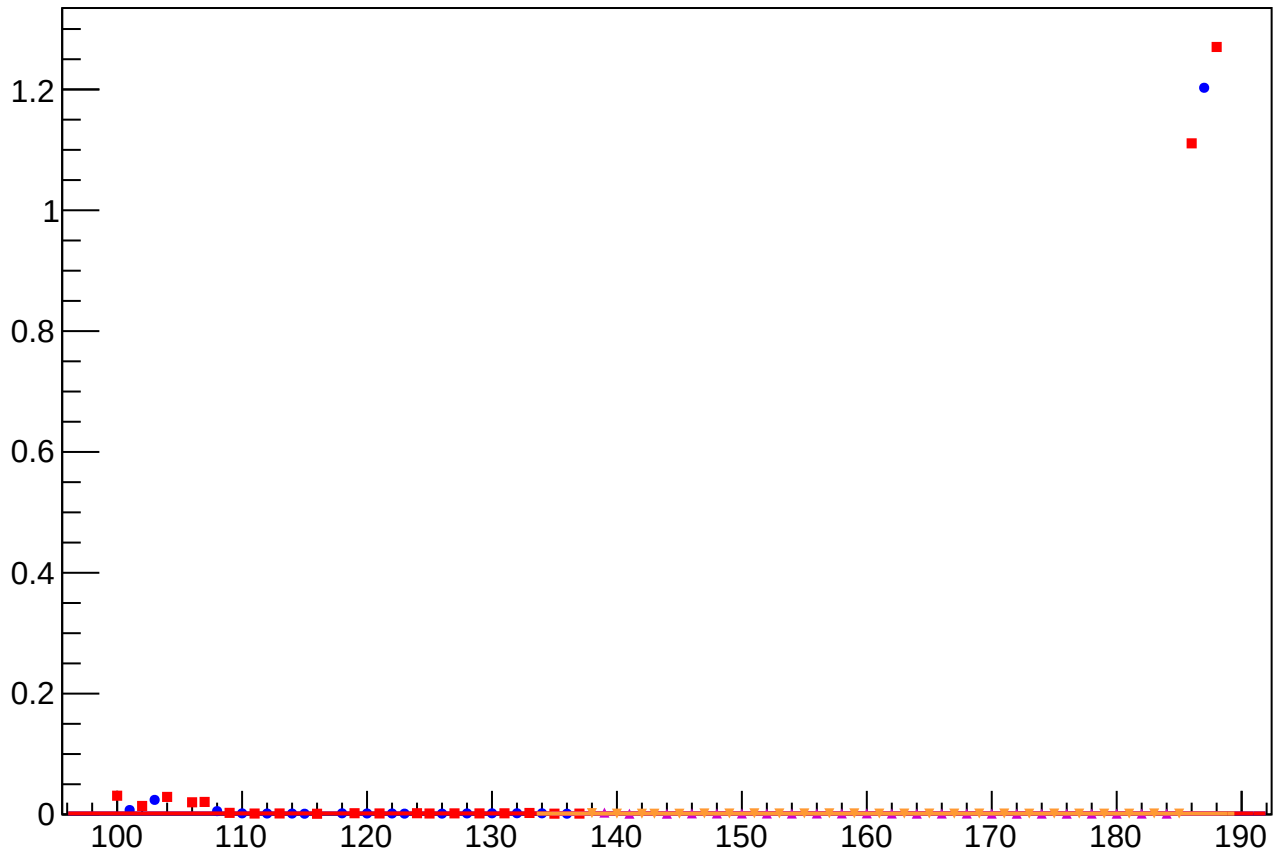
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 12850608441.2/38

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 9907924179.7/40

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 3197585721.9/45

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 13105846903.2/8

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2205026.7/17

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5412273.9/20

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

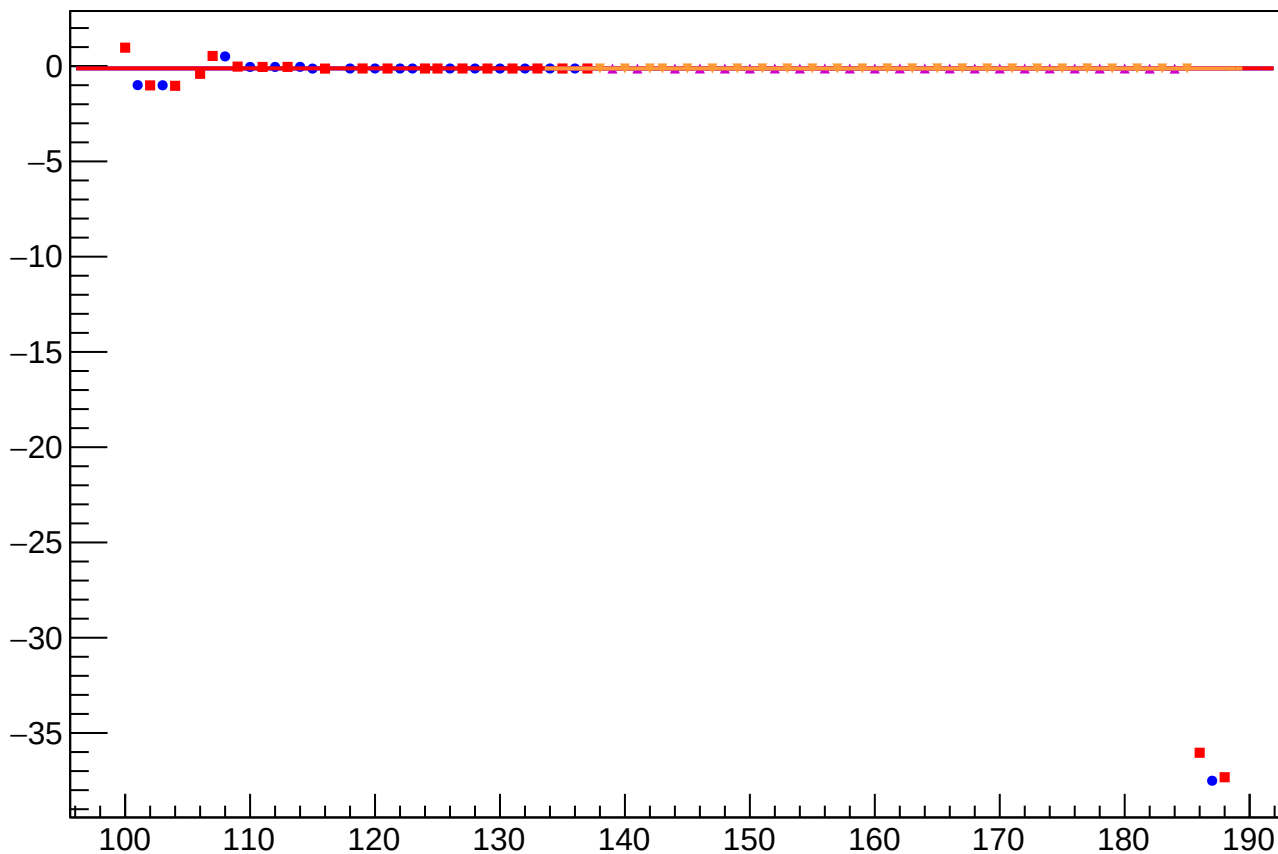
Right: 0.002+/-0.000 χ^2/NDF : 7625801.8/38

In: 0.002+/-0.000 χ^2/NDF : 2881026.3/40

Out: 0.002+/-0.000 χ^2/NDF : 6088274.3/45

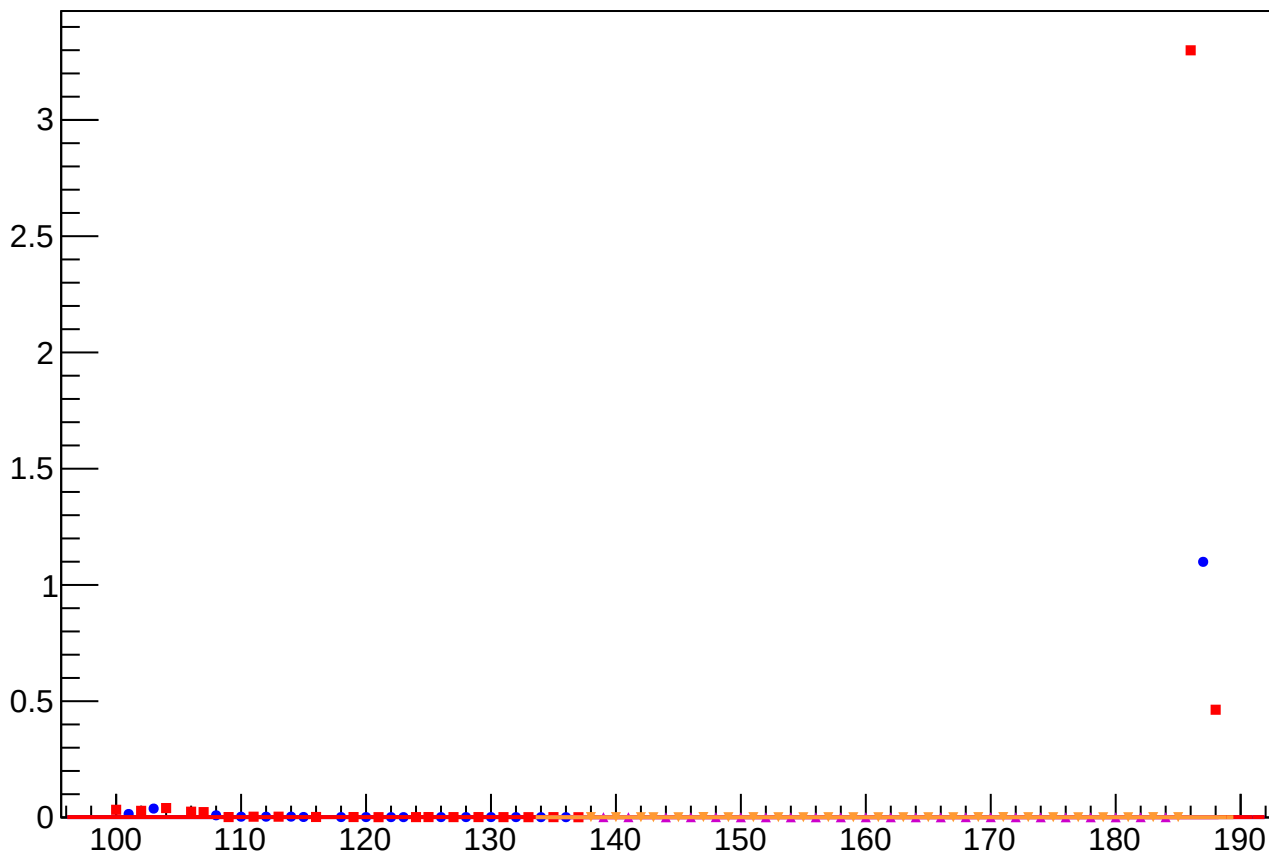
All: 0.002+/-0.000 χ^2/NDF : 8970201.5/86

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000	χ^2/NDF : 4099200069.0/17	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.118+/-0.000	χ^2/NDF : 11962985212.7/38
Right Out: -0.115+/-0.000	χ^2/NDF : 7841390064.4/20	In: -0.121+/-0.000	χ^2/NDF : 4151872205.7/40
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.121+/-0.000	χ^2/NDF : 7953269626.3/45
		All: -0.121+/-0.000	χ^2/NDF : 12106053549.4/...

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3185245.8/17

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5891856.8/20

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

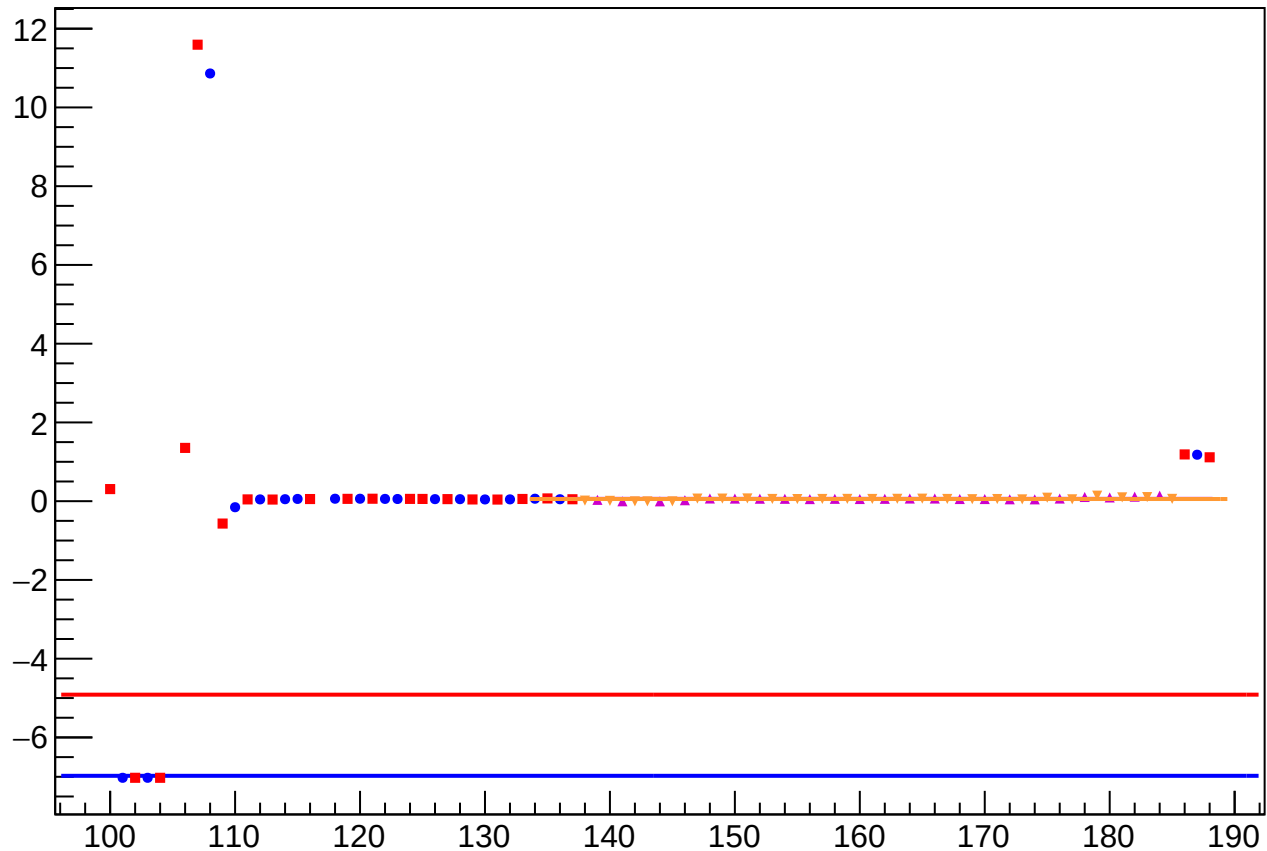
Right: 0.002+/-0.000 χ^2/NDF : 9077212.0/38

In: 0.001+/-0.000 χ^2/NDF :5296363.0/40

Out: 0.001+/-0.000 χ^2/NDF :8402211.0/45

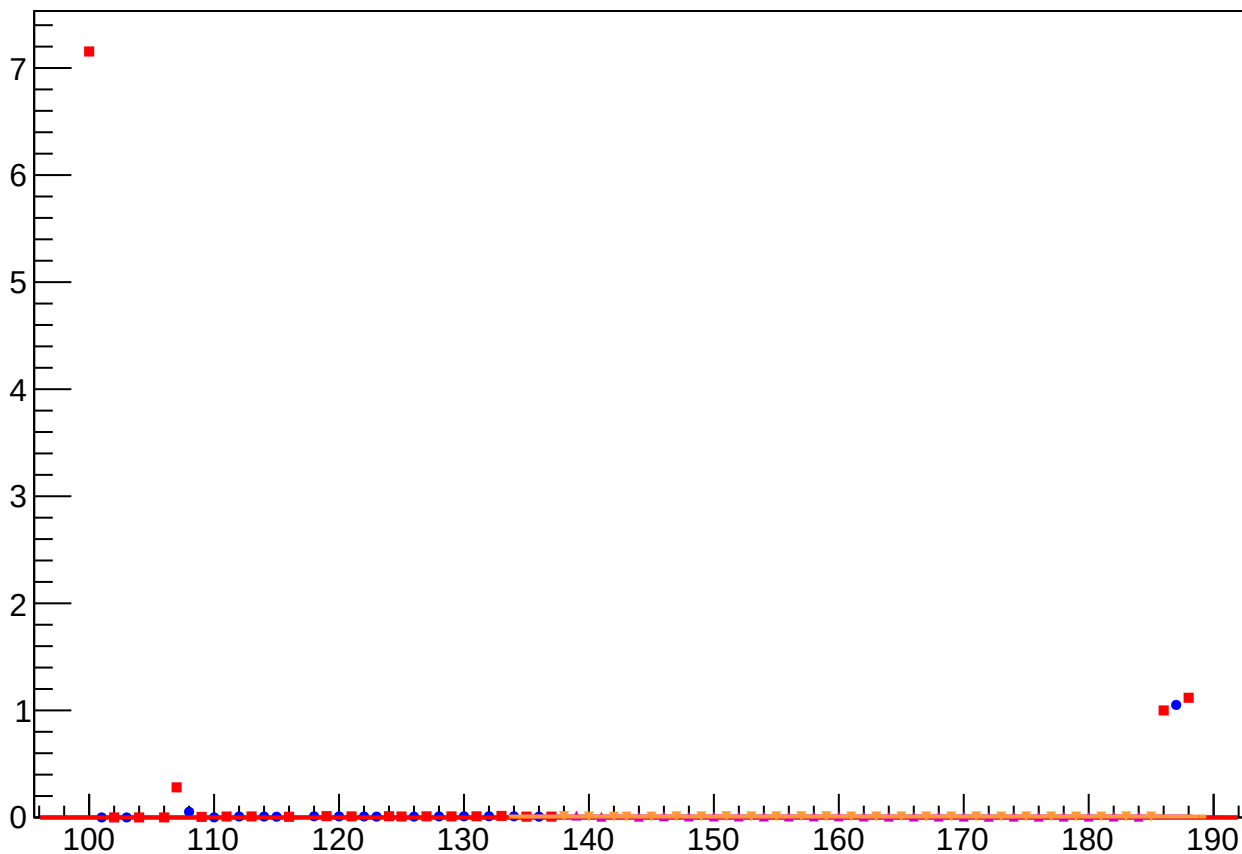
All: 0.001+/-0.000 χ^2/NDF : 13701096.2/86

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797366557186.8/17$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352694172718.6/20$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435286178466$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8634426.0/17

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11174432.9/20

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

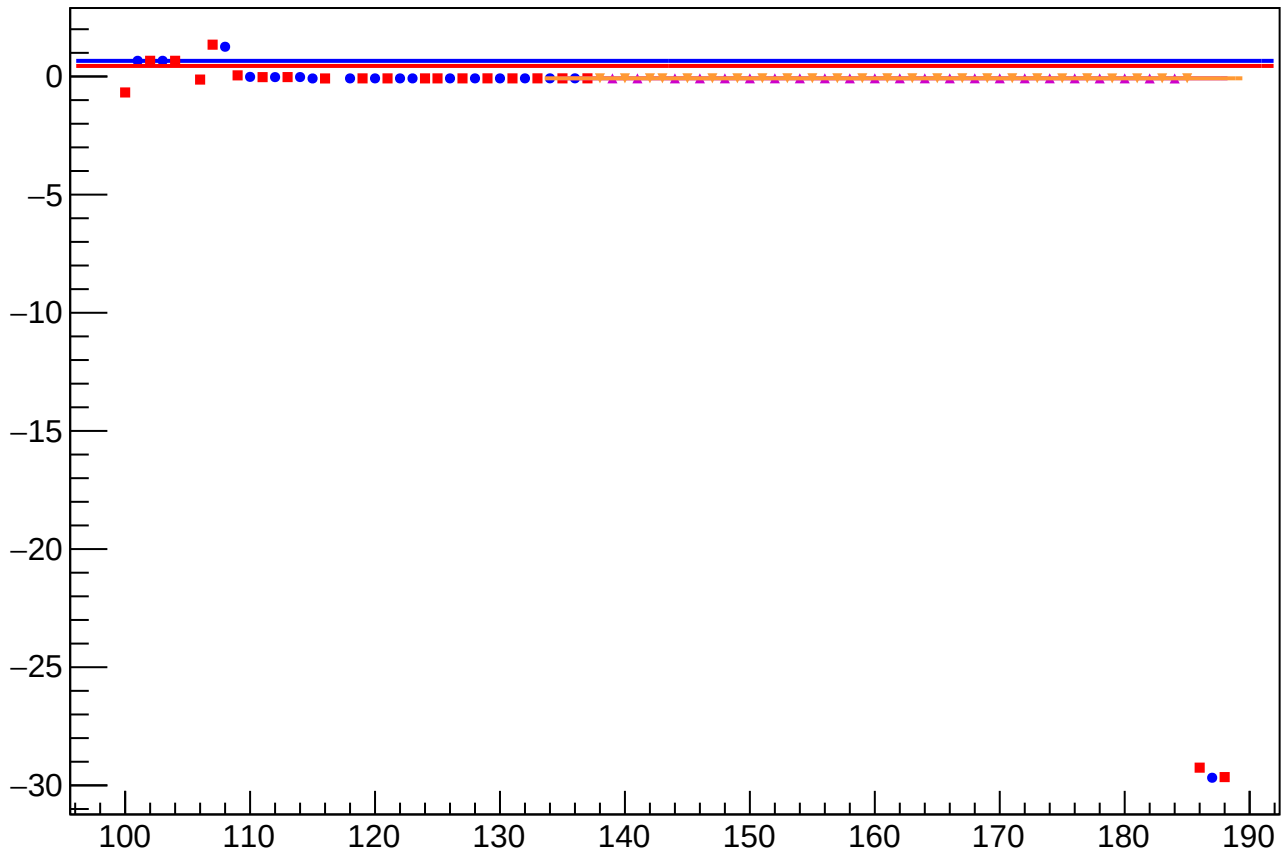
Right: 0.000+/-0.000 χ^2/NDF : 19809203.1/38

In: 0.000+/-0.000 χ^2/NDF :36053369.8/40

Out: 0.000+/-0.000 χ^2/NDF :40119470.2/45

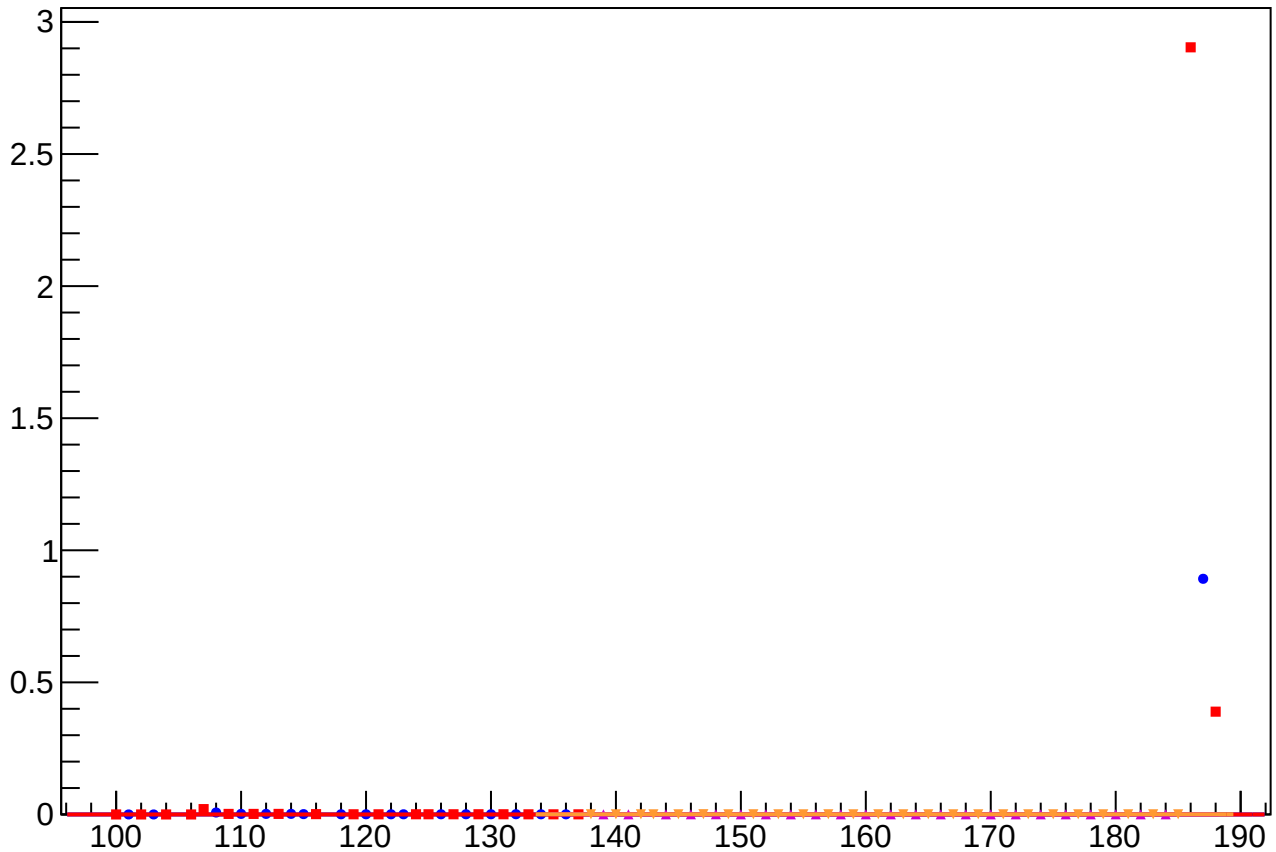
All: 0.000+/-0.000 χ^2/NDF : 76173300.5/86

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5658835185910.0/17	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 : 474005635882724.3
Right Out: 0.446+/-0.000	χ^2/NDF : 405433478660382.4/20	In: 0.647+/-0.000	χ^2/NDF : 33699570194047.6/40
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420594594021019.7/4
		All: 0.537+/-0.000	χ^2/NDF : 51585011399368

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10240118.1/17

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11850768.2/20

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

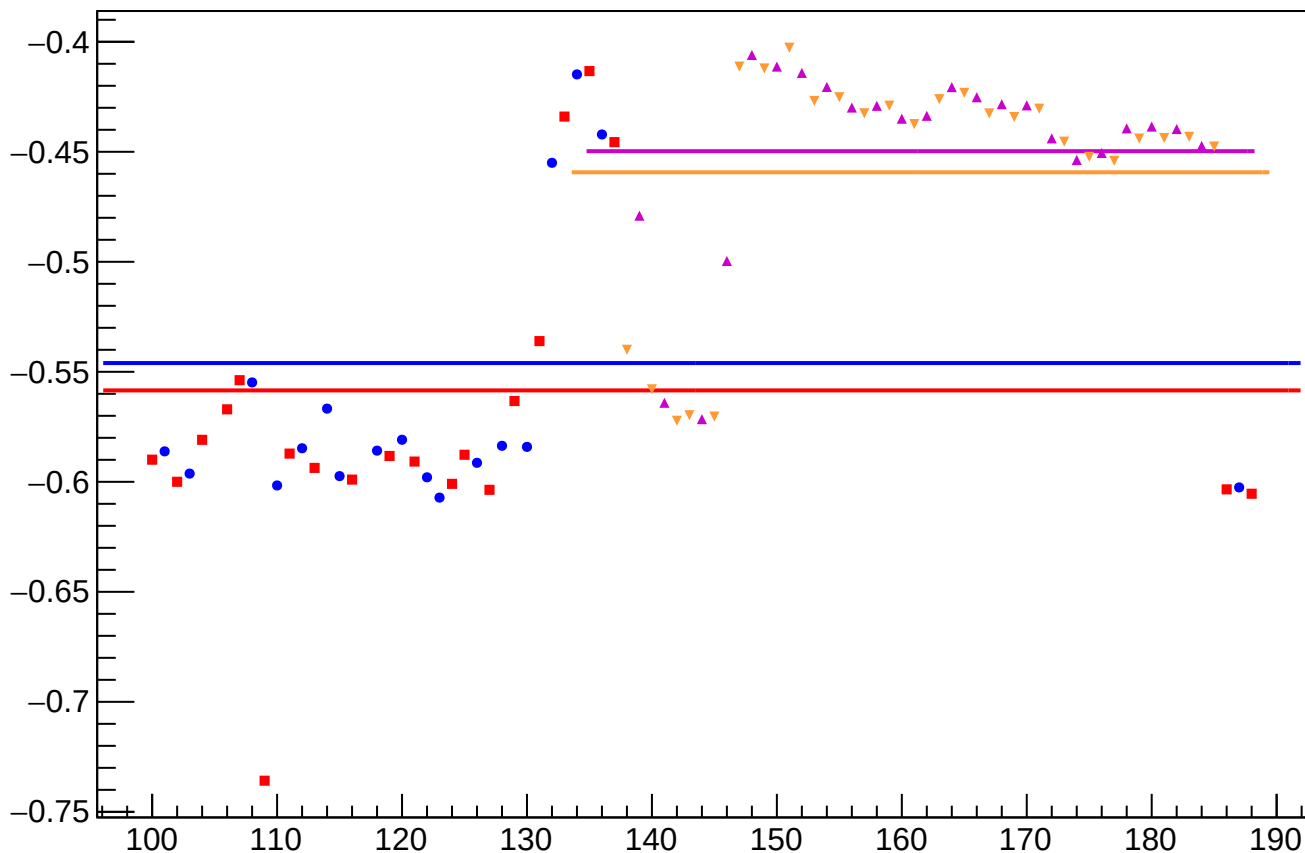
Right: 0.000+/-0.000 χ^2/NDF : 22090901.7/38

In: 0.000+/-0.000 χ^2/NDF : 40973248.9/40

Out: 0.000+/-0.000 χ^2/NDF : 44472704.9/45

All: 0.000+/-0.000 χ^2/NDF : 85446288.3/86

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546+/-0.000 χ^2/NDF : 46533208.3/17

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.558+/-0.000 χ^2/NDF : 65238071.8/20

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

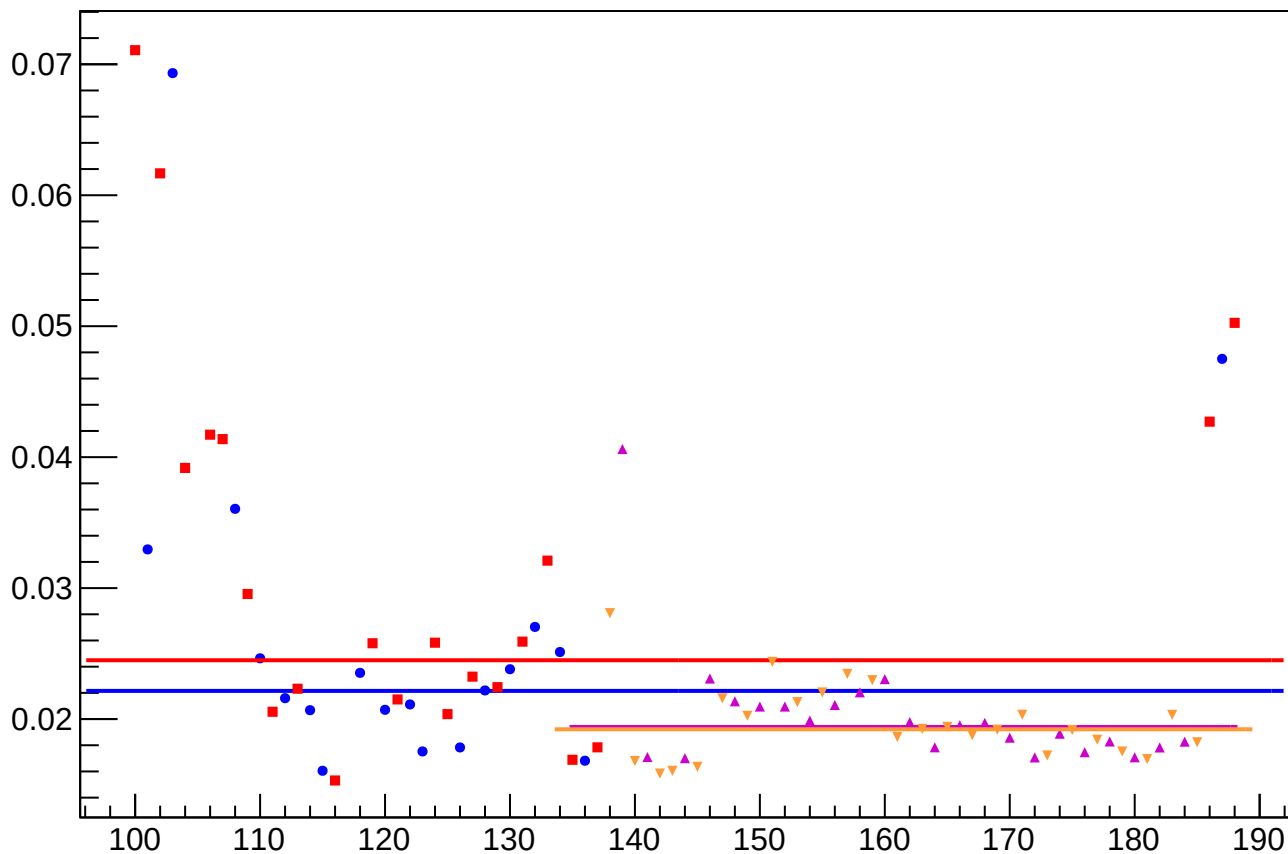
Right: -0.552+/-0.000 χ^2/NDF : 112579929.5/38

In: -0.471+/-0.000 χ^2/NDF : 199092142.9/40

Out: -0.480+/-0.000 χ^2/NDF : 259741210.5/45

All: -0.476+/-0.000 χ^2/NDF : 460608203.3/86

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1040875.2/17

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.024+/-0.000 χ^2/NDF : 1752709.1/20

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

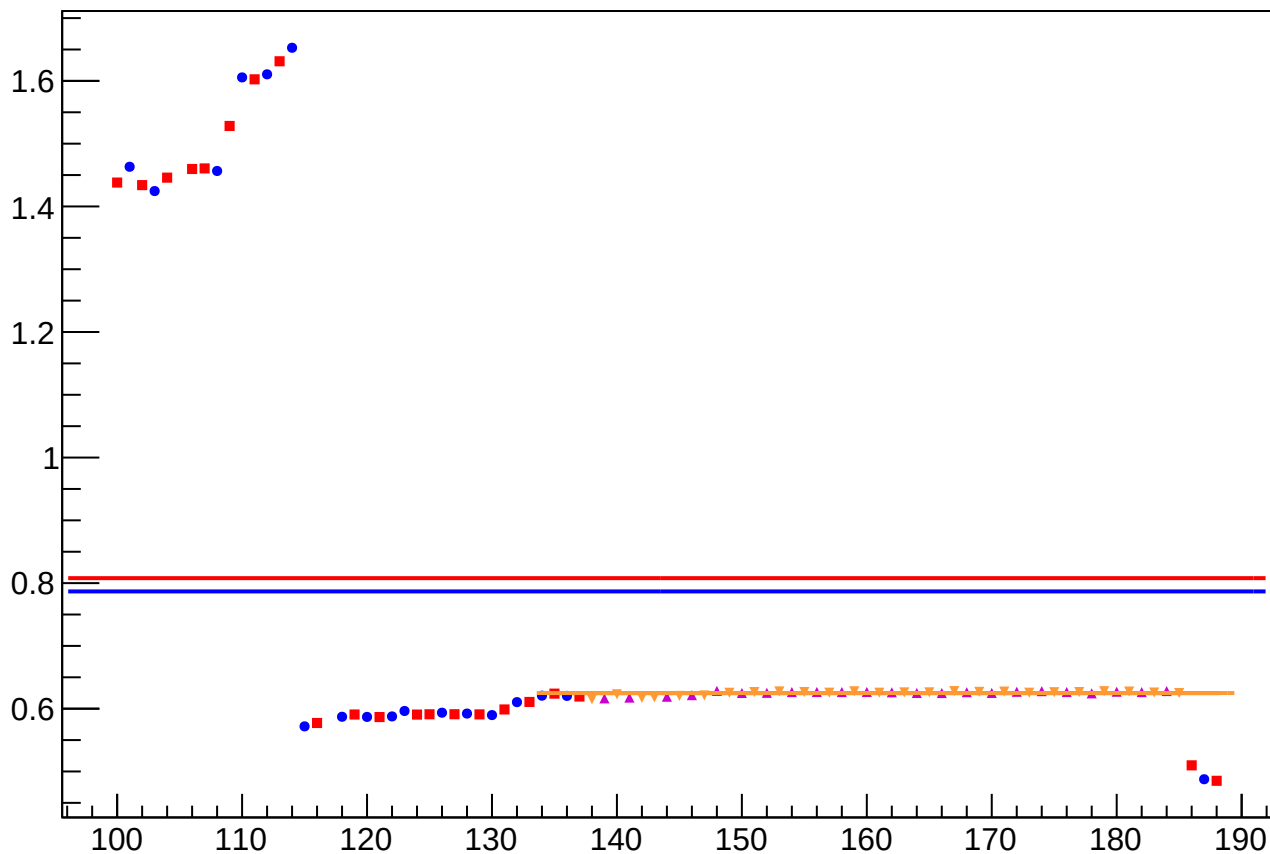
Right: 0.023+/-0.000 χ^2/NDF : 2850951.2/38

In: 0.020+/-0.000 χ^2/NDF : 1792582.6/40

Out: 0.020+/-0.000 χ^2/NDF : 2711892.7/45

All: 0.020+/-0.000 χ^2/NDF : 4508694.8/86

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 3586684382.3/17

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.808 $\pm$ 0.000 χ^2 /NDF: 4404152233.8/20

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

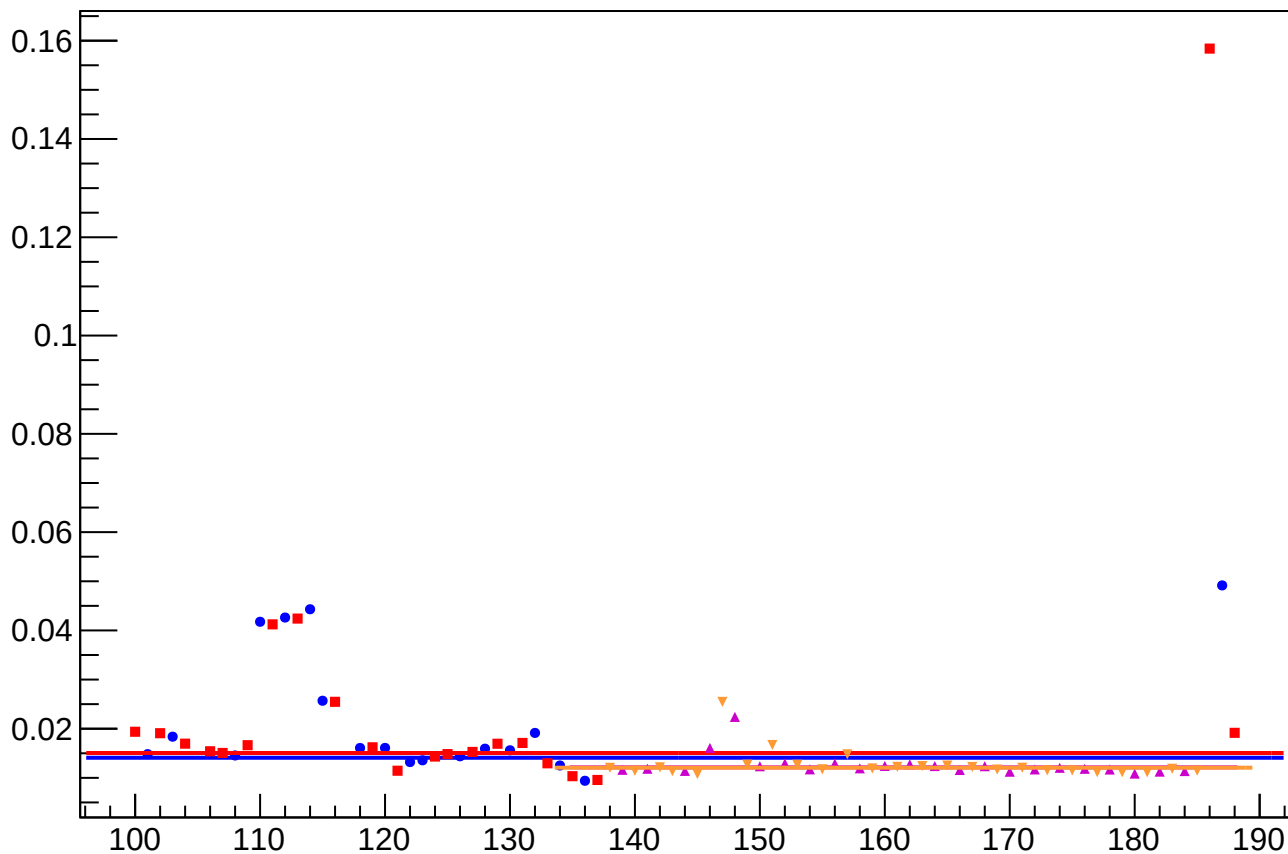
Right: 0.798 $\pm$ 0.000 χ^2 /NDF: 7997428455.3/38

In: 0.658 $\pm$ 0.000 χ^2 /NDF:4191090553.7/40

Out: 0.661 $\pm$ 0.000 χ^2 /NDF:5214266424.9/45

All: 0.660 $\pm$ 0.000 χ^2 /NDF: 9406371853.1/86

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1544691.7/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1929561.5/20

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

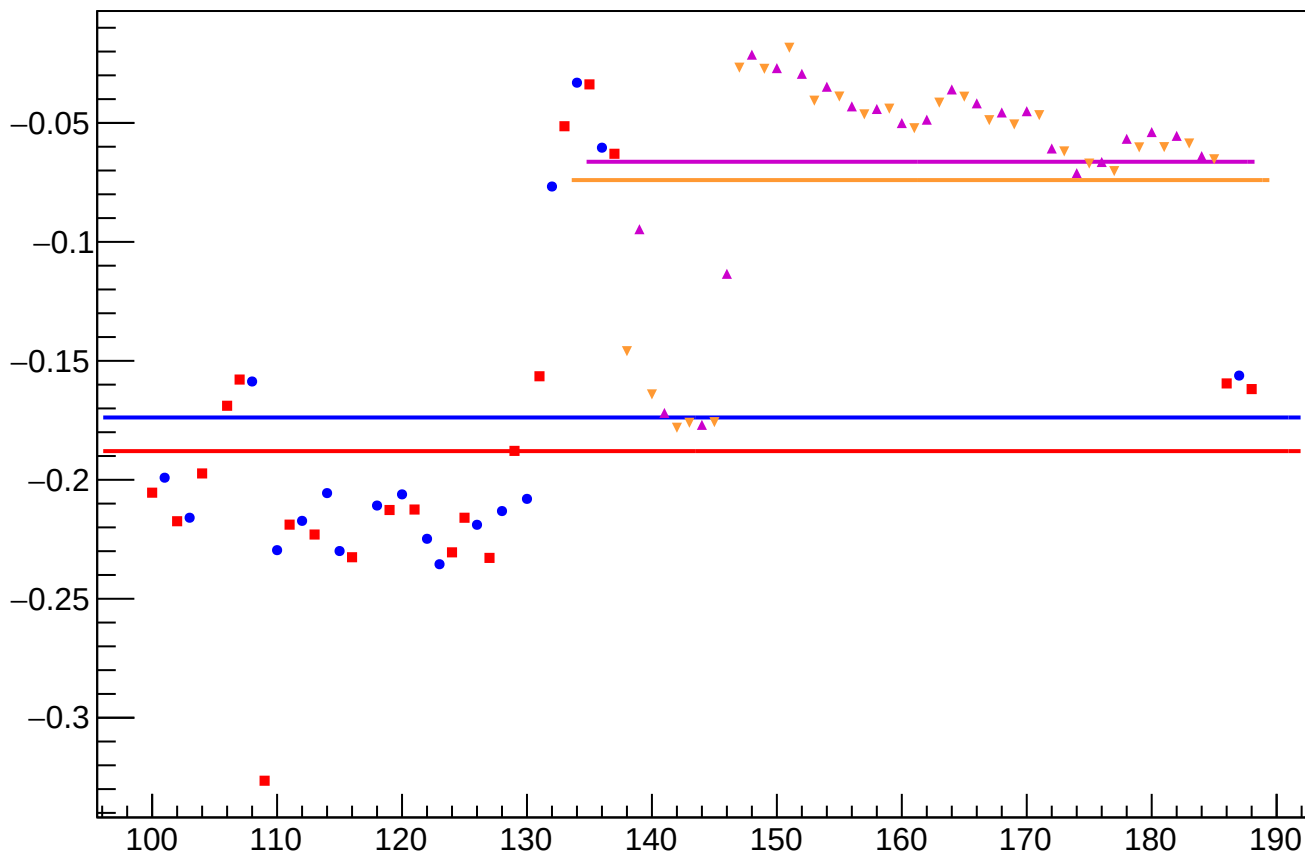
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3501714.1/38

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2209010.2/40

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3017296.6/45

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5228916.5/86

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66797845.9/17

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.188+/-0.000 χ^2/NDF : 82364538.0/20

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

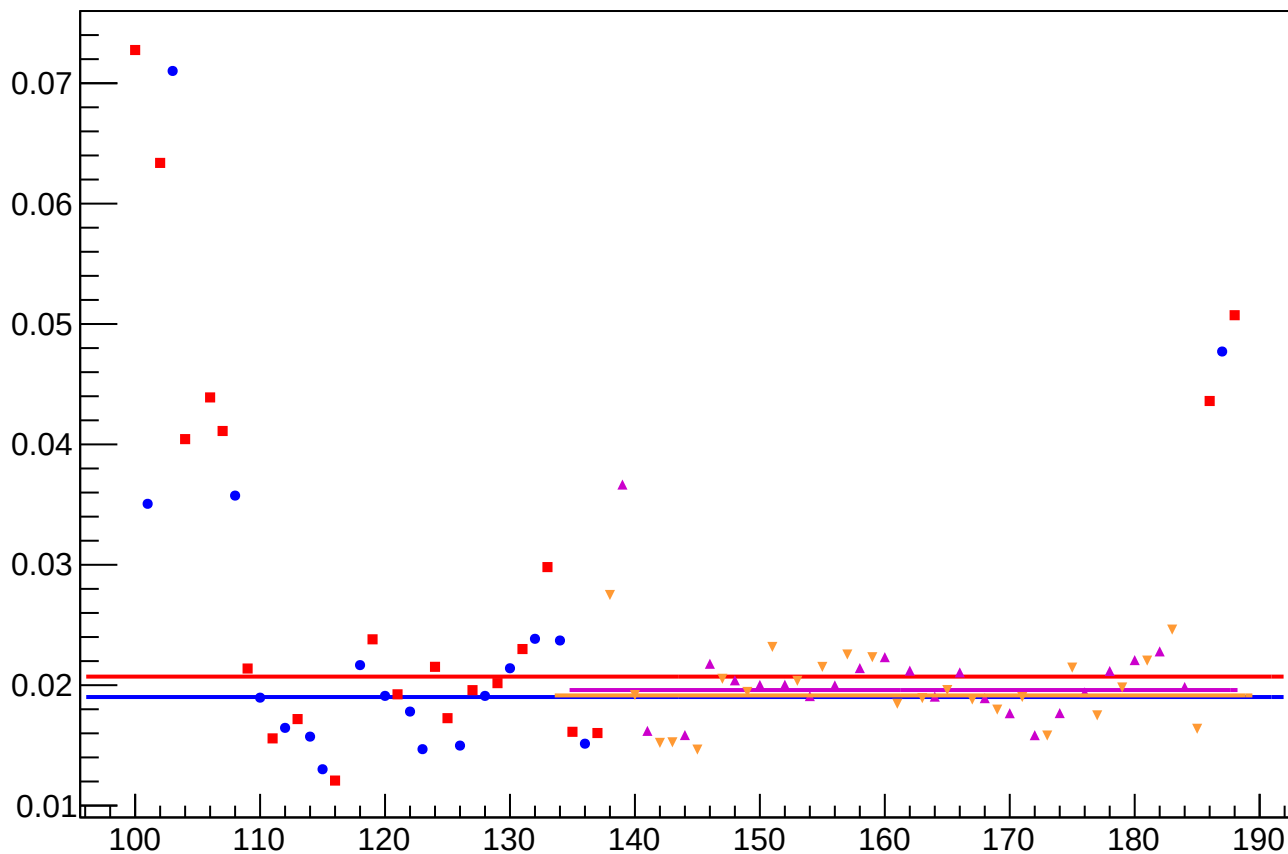
Right: -0.181+/-0.000 χ^2/NDF : 150561579.2/38

In: -0.096+/-0.000 χ^2/NDF : 260930572.6/40

Out: -0.103+/-0.000 χ^2/NDF : 324992019.1/45

All: -0.099+/-0.000 χ^2/NDF : 587209634.2/86

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1314984.1/17

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2273091.3/20

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

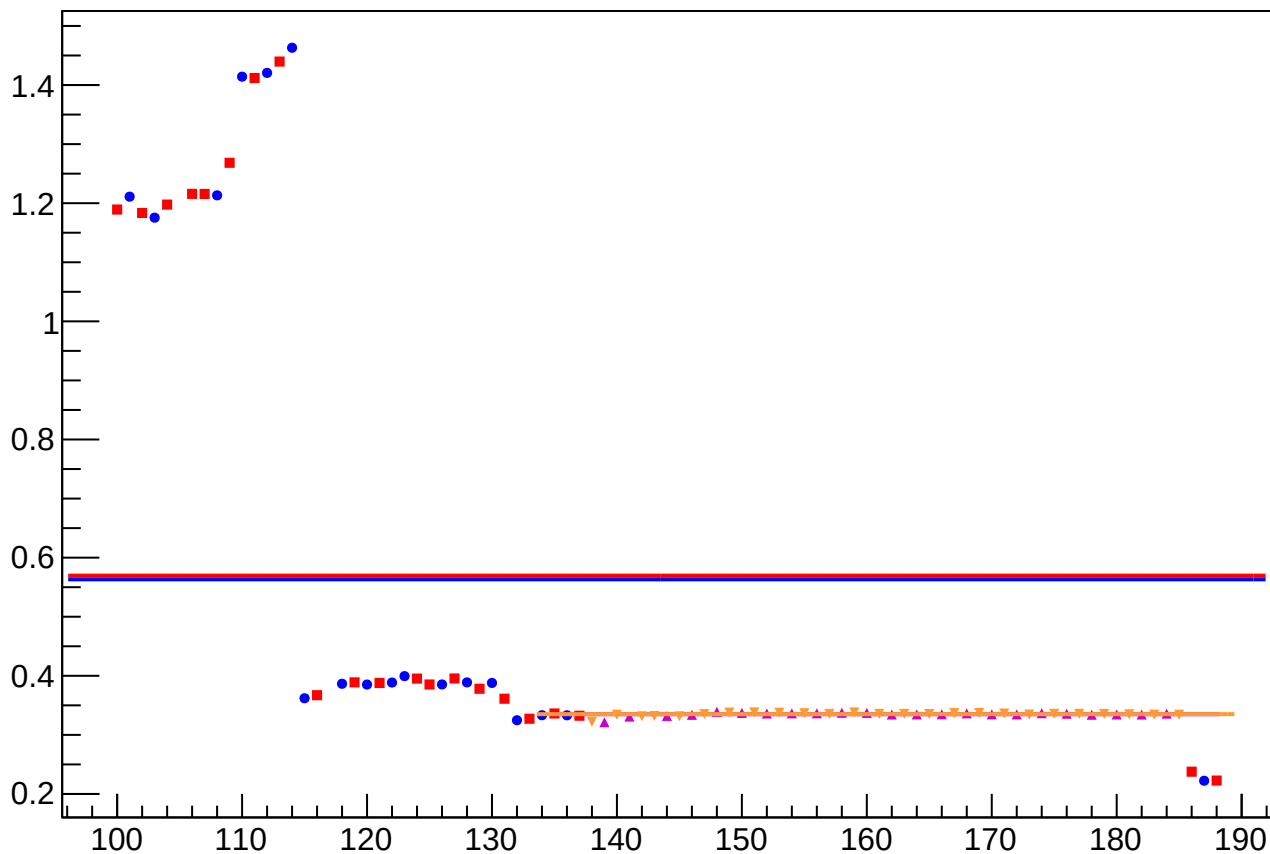
Right: 0.020+/-0.000 χ^2/NDF : 3628365.6/38

In: 0.019+/-0.000 χ^2/NDF : 1945035.2/40

Out: 0.020+/-0.000 χ^2/NDF : 2965154.7/45

All: 0.019+/-0.000 χ^2/NDF : 4910803.1/86

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.563+/-0.000 χ^2/NDF : 5055392059.6/17

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.570+/-0.000 χ^2/NDF : 6038912329.3/20

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

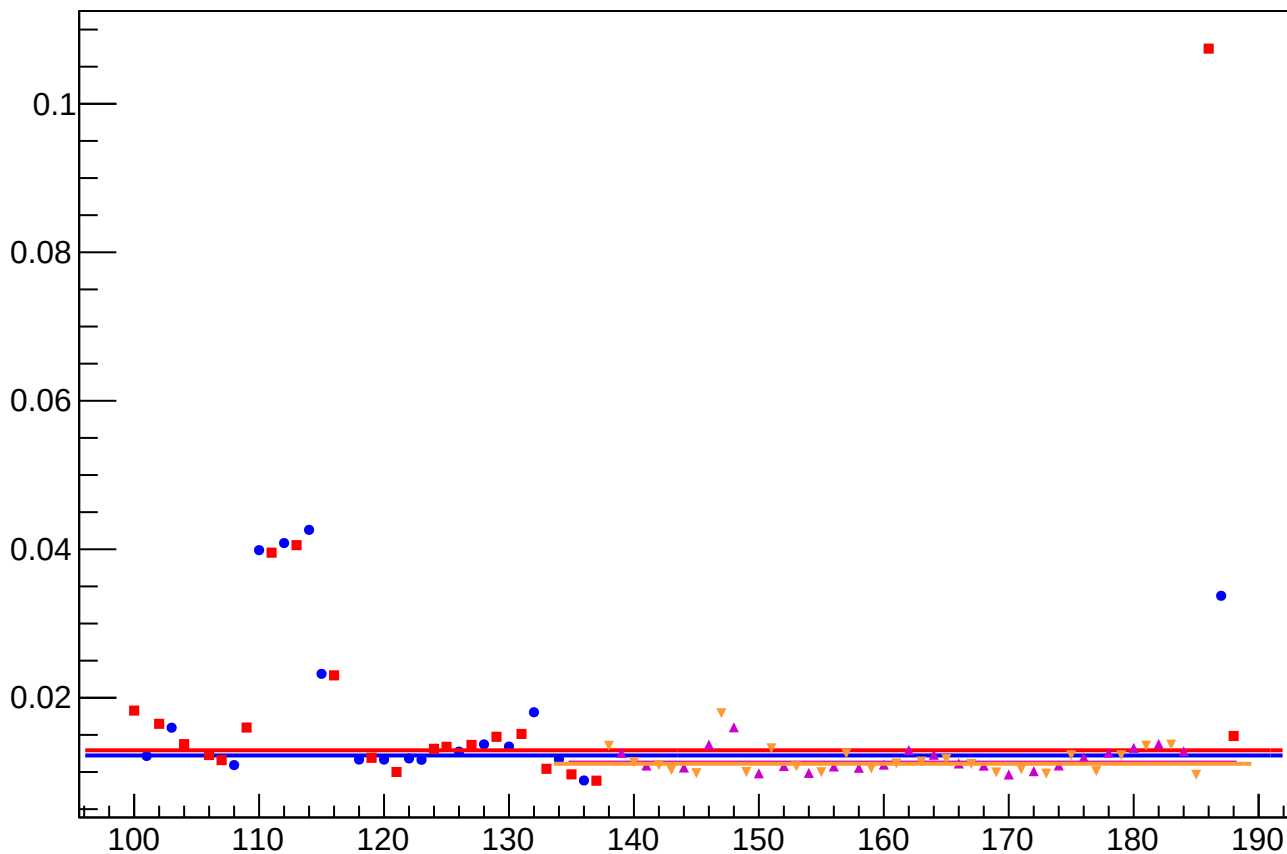
Right: 0.567+/-0.000 χ^2/NDF : 11095082978.2/38

In: 0.387+/-0.000 χ^2/NDF :6598516625.9/40

Out: 0.387+/-0.000 χ^2/NDF :7773045569.4/45

All: 0.387+/-0.000 χ^2/NDF : 14371569755.0/8

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1419365.8/17

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1854014.3/20

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

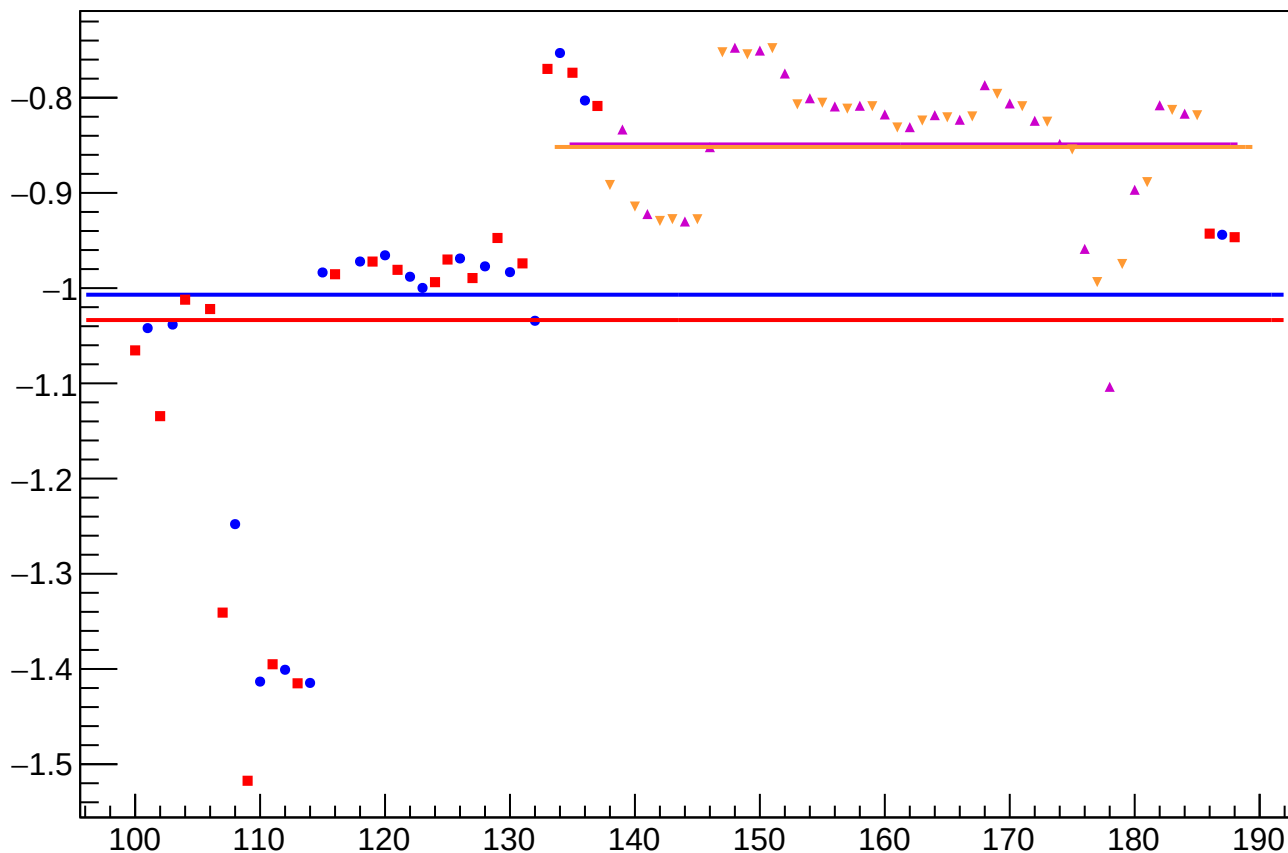
Right: 0.013+/-0.000 χ^2/NDF : 3292410.2/38

In: 0.011+/-0.000 χ^2/NDF : 1976155.3/40

Out: 0.012+/-0.000 χ^2/NDF : 2668832.0/45

All: 0.012+/-0.000 χ^2/NDF : 4645100.2/86

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 $\pm$ 0.000 χ^2 /NDF: 393852985.8/17

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.034 $\pm$ 0.000 χ^2 /NDF: 540153075.4/20

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

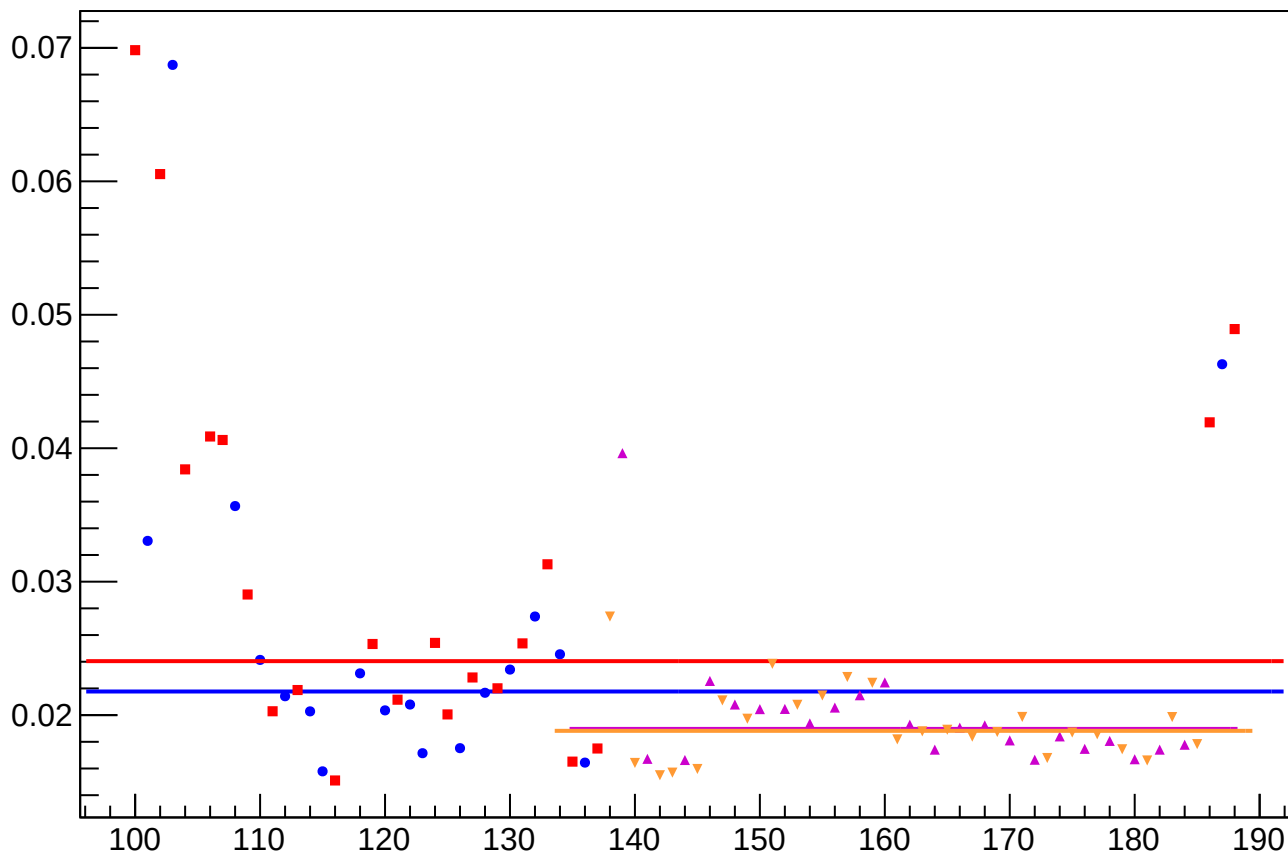
Right: -1.020 $\pm$ 0.000 χ^2 /NDF: 9378444852.1/38

In: -0.884 $\pm$ 0.000 χ^2 /NDF:862987031.5/40

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1011395162.6/45

All: -0.886 $\pm$ 0.000 χ^2 /NDF: 1875021884.7/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1064600.9/17

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.024+/-0.000 χ^2/NDF : 1741982.5/20

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

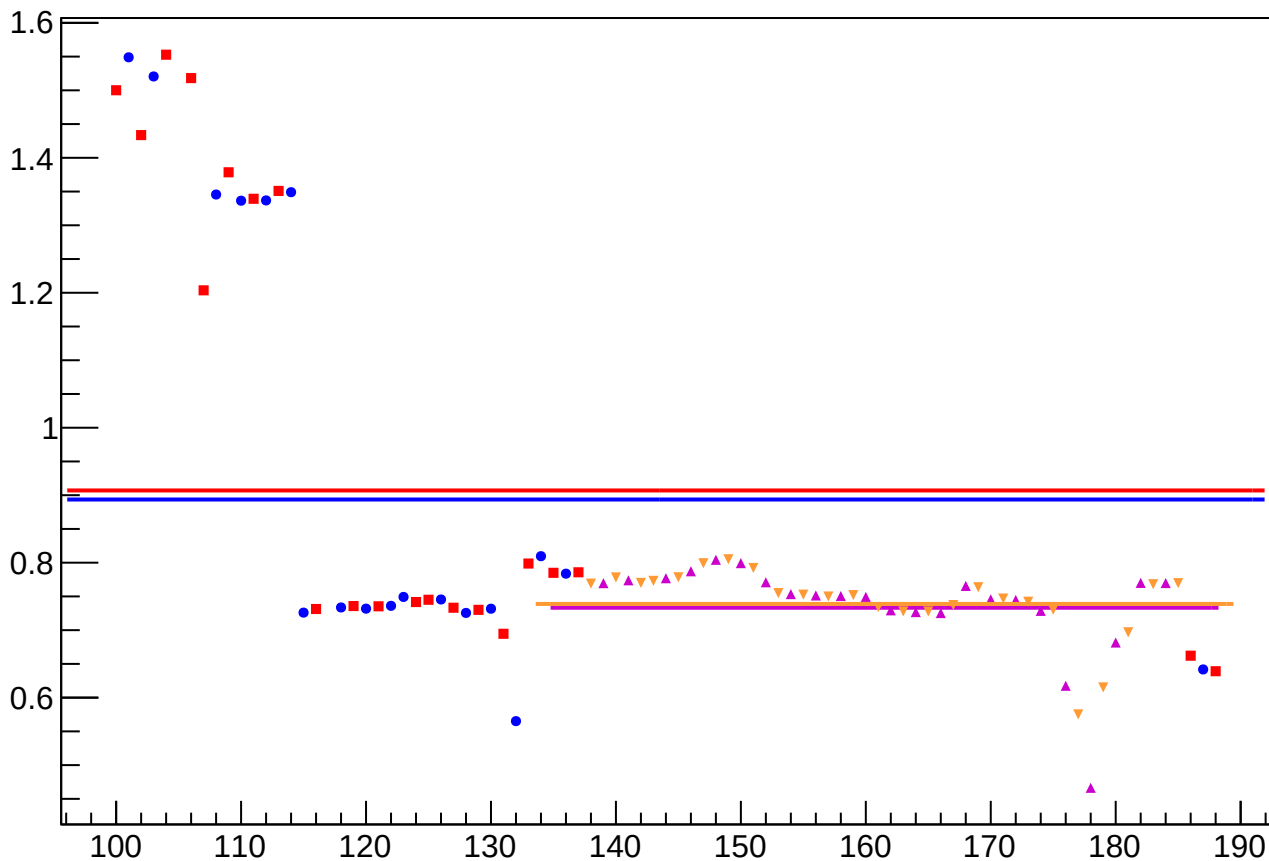
Right: 0.023+/-0.000 χ^2/NDF : 2862687.3/38

In: 0.020+/-0.000 χ^2/NDF : 1814010.8/40

Out: 0.020+/-0.000 χ^2/NDF : 2698241.2/45

All: 0.020+/-0.000 χ^2/NDF : 4516988.5/86

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000 χ^2 /NDF: 2402792113.3/17

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.907 $\pm$ 0.000 χ^2 /NDF: 2599169700.9/20

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

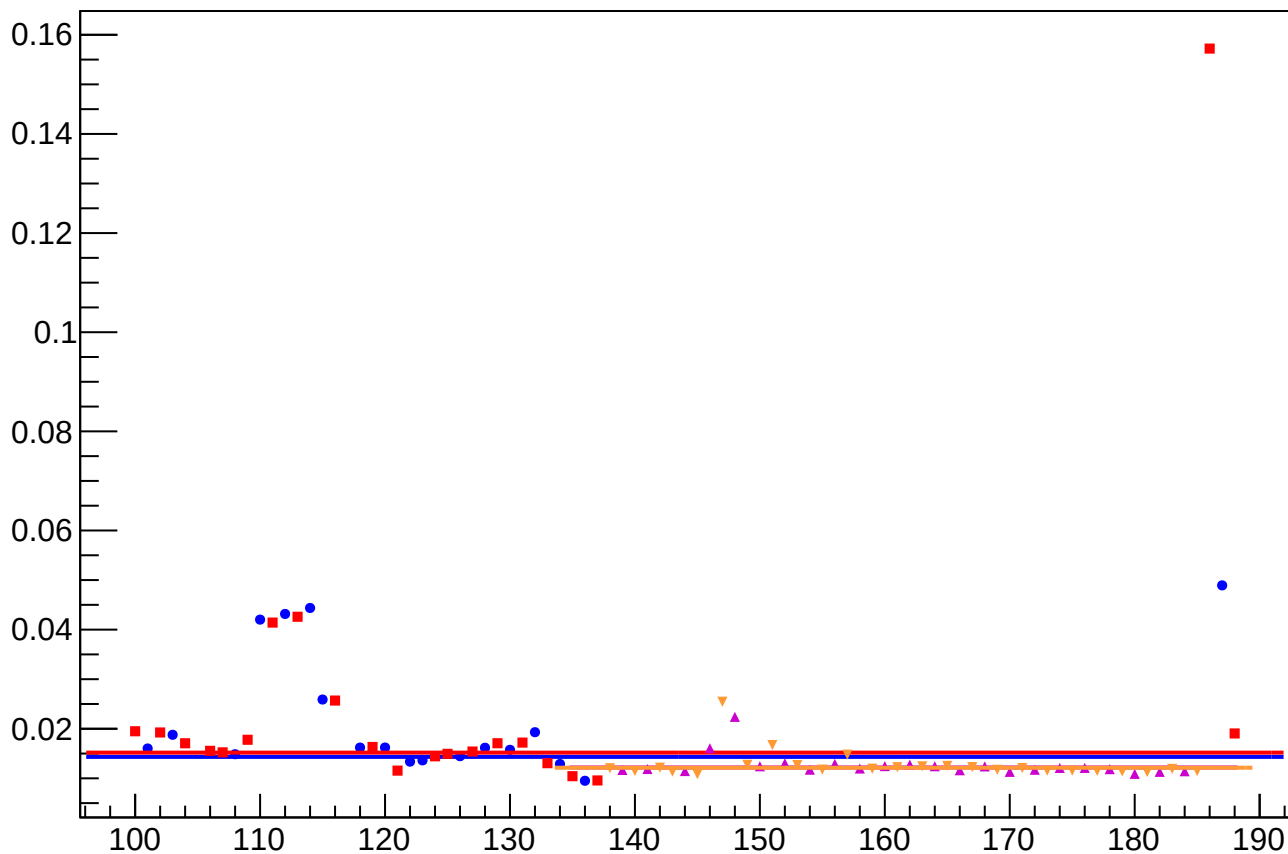
Right: 0.901 $\pm$ 0.000 χ^2 /NDF: 5004538687.8/38

In: 0.765 $\pm$ 0.000 χ^2 /NDF:3545171505.4/40

Out: 0.772 $\pm$ 0.000 χ^2 /NDF:3602378606.3/45

All: 0.769 $\pm$ 0.000 χ^2 /NDF: 7151263168.0/86

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1552295.8/17

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1928999.4/20

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

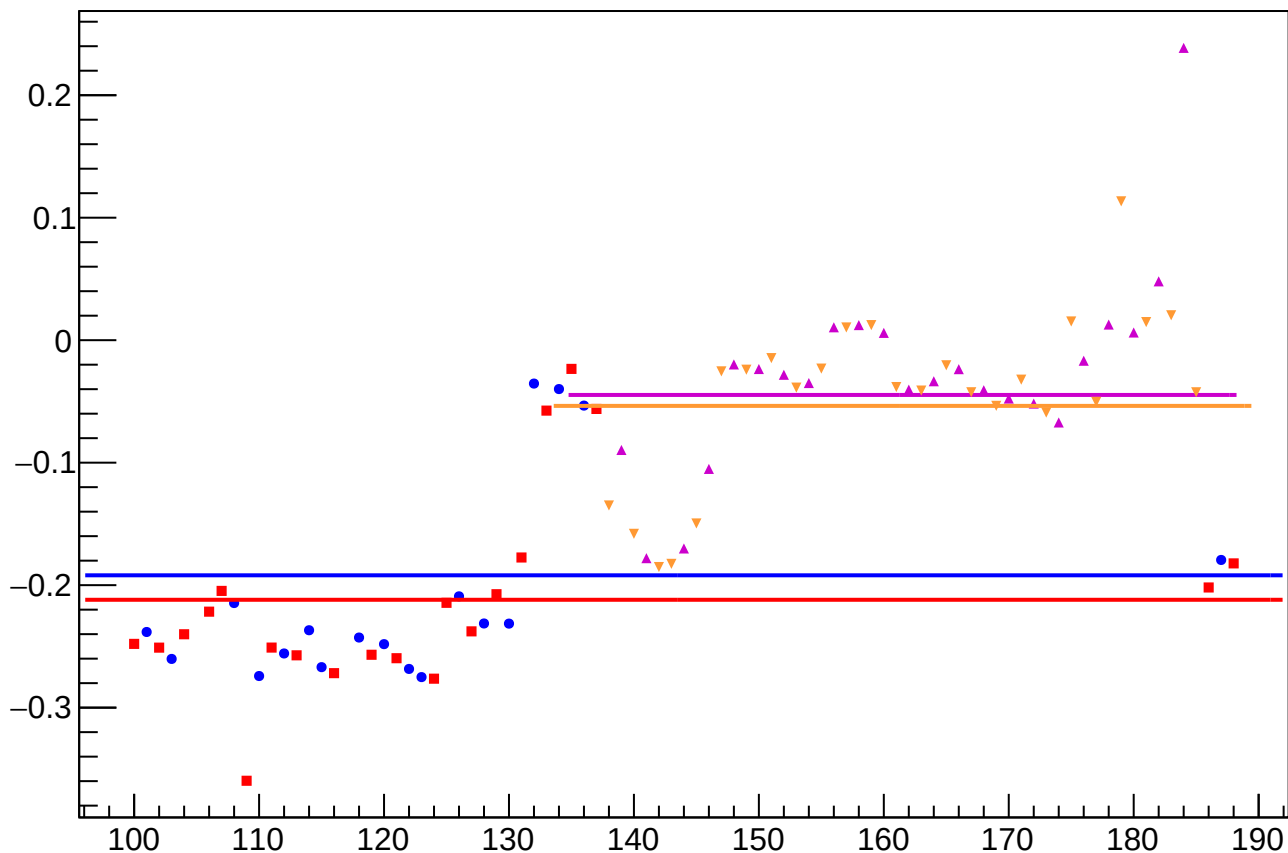
Right: 0.015+/-0.000 χ^2/NDF : 3502597.8/38

In: 0.013+/-0.000 χ^2/NDF : 2237049.2/40

Out: 0.013+/-0.000 χ^2/NDF : 3007509.4/45

All: 0.013+/-0.000 χ^2/NDF : 5246985.6/86

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106210097.7/17$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.212 ± 0.000 $\chi^2/\text{NDF}: 110836272.5/20$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

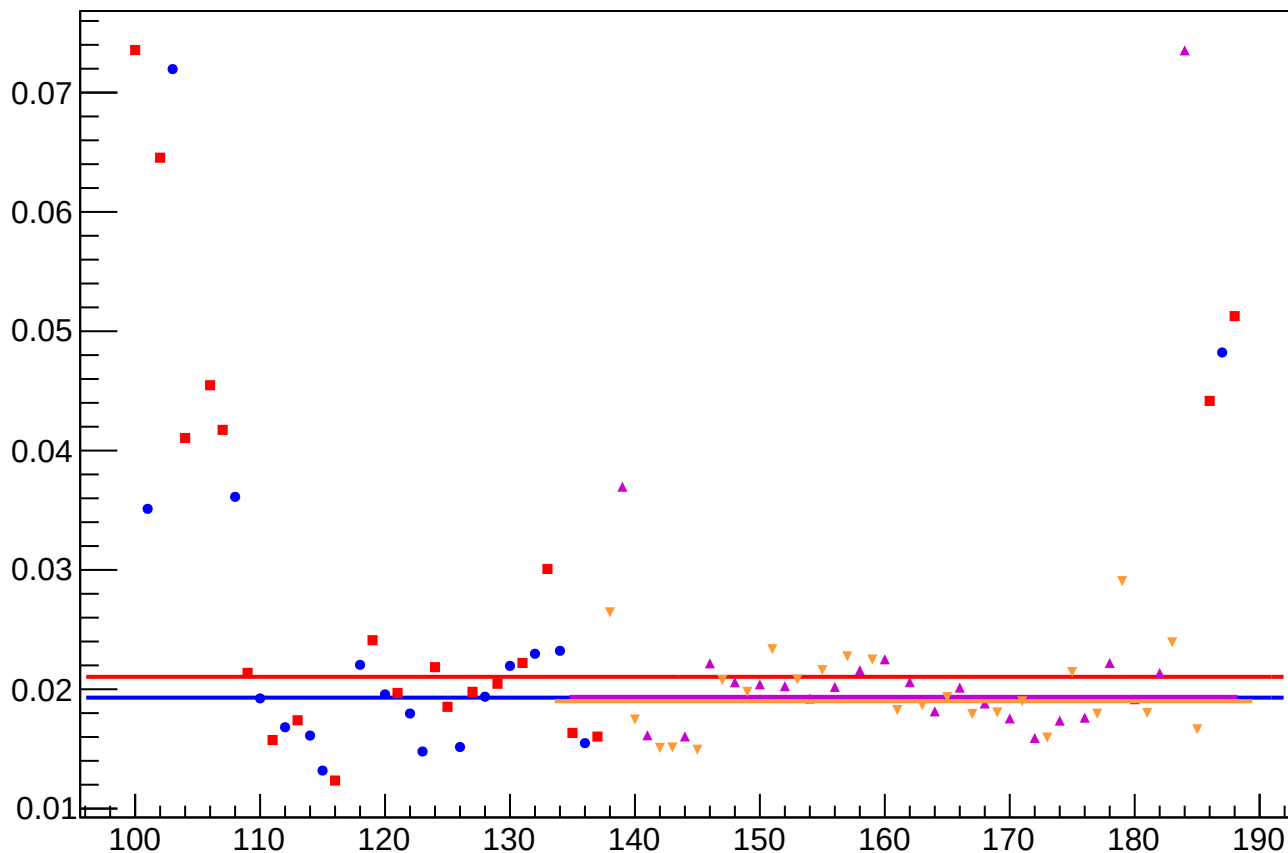
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 219756845.2/38$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 449912859.5/40$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 531968557.8/45$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 983837960.1/86$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1285381.6/17

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2258832.5/20

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

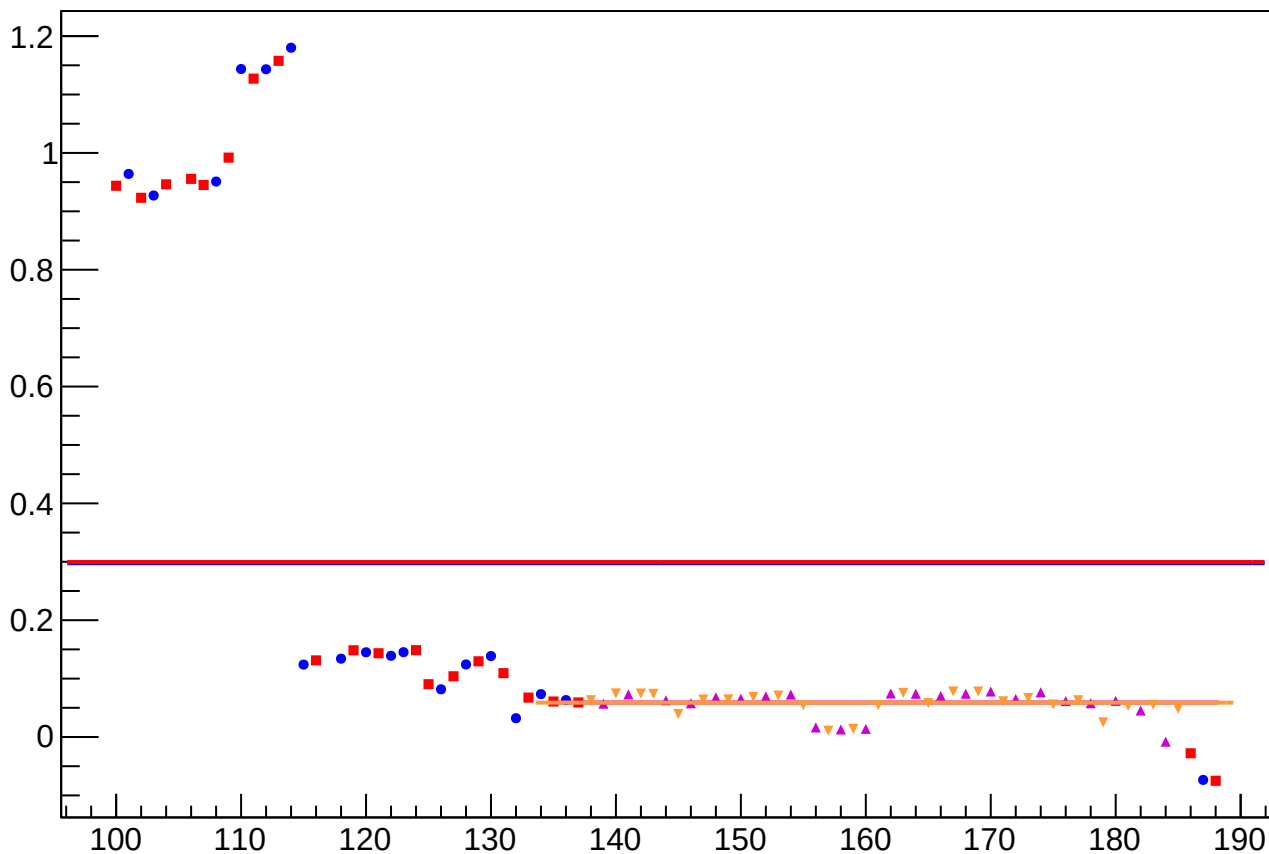
Right: 0.020+/-0.000 χ^2/NDF : 3585507.5/38

In: 0.019+/-0.000 χ^2/NDF : 2143687.1/40

Out: 0.020+/-0.000 χ^2/NDF : 3043688.0/45

All: 0.019+/-0.000 χ^2/NDF : 5188717.1/86

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.298 $\pm$ 0.000 χ^2 /NDF: 5198079836.6/17

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.300 $\pm$ 0.000 χ^2 /NDF: 6093091540.1/20

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

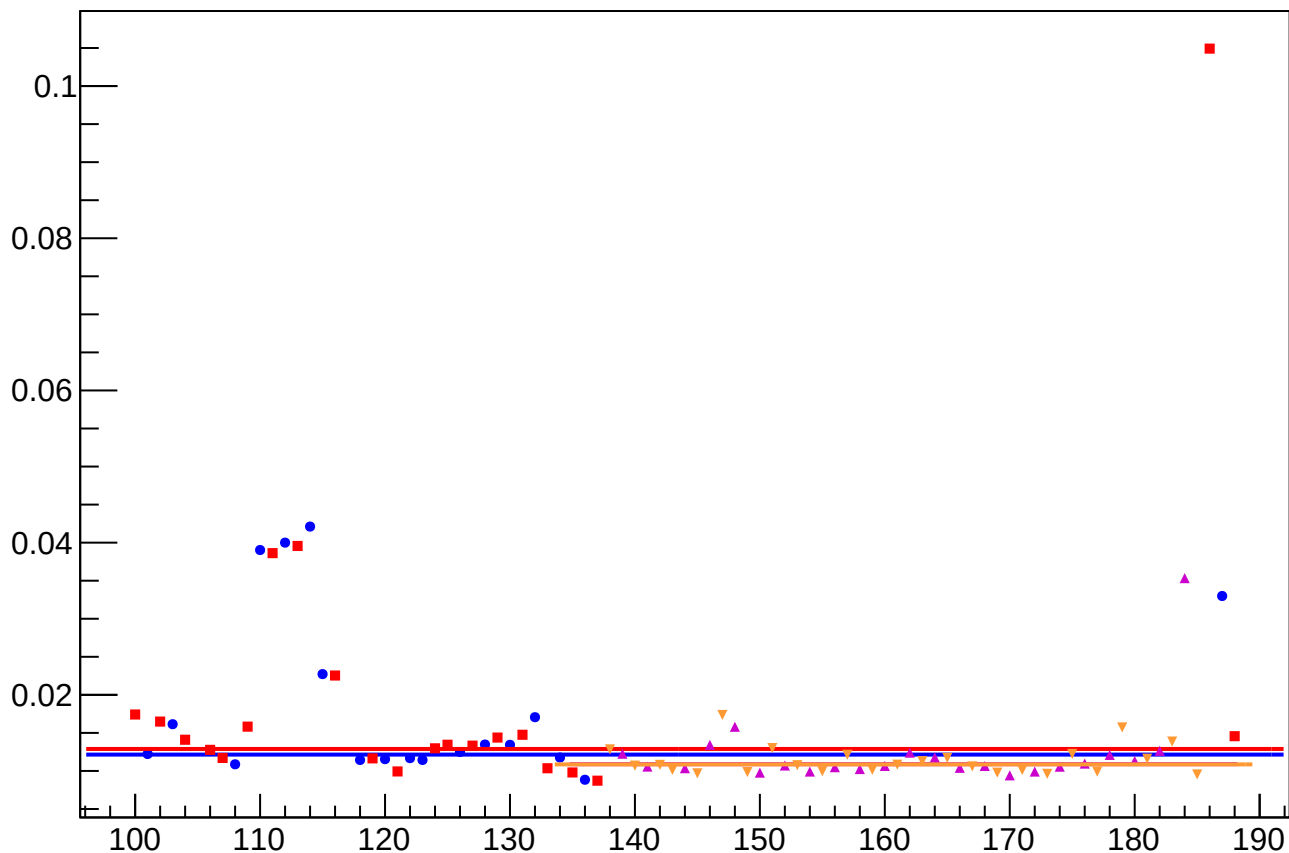
Right: 0.299 $\pm$ 0.000 χ^2 /NDF: 11291253285.6/38

In: 0.112 $\pm$ 0.000 χ^2 /NDF: 6976786358.6/40

Out: 0.112 $\pm$ 0.000 χ^2 /NDF: 7983319691.6/45

All: 0.112 $\pm$ 0.000 χ^2 /NDF: 14960107529.6/8

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1389923.9/17

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1811130.6/20

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

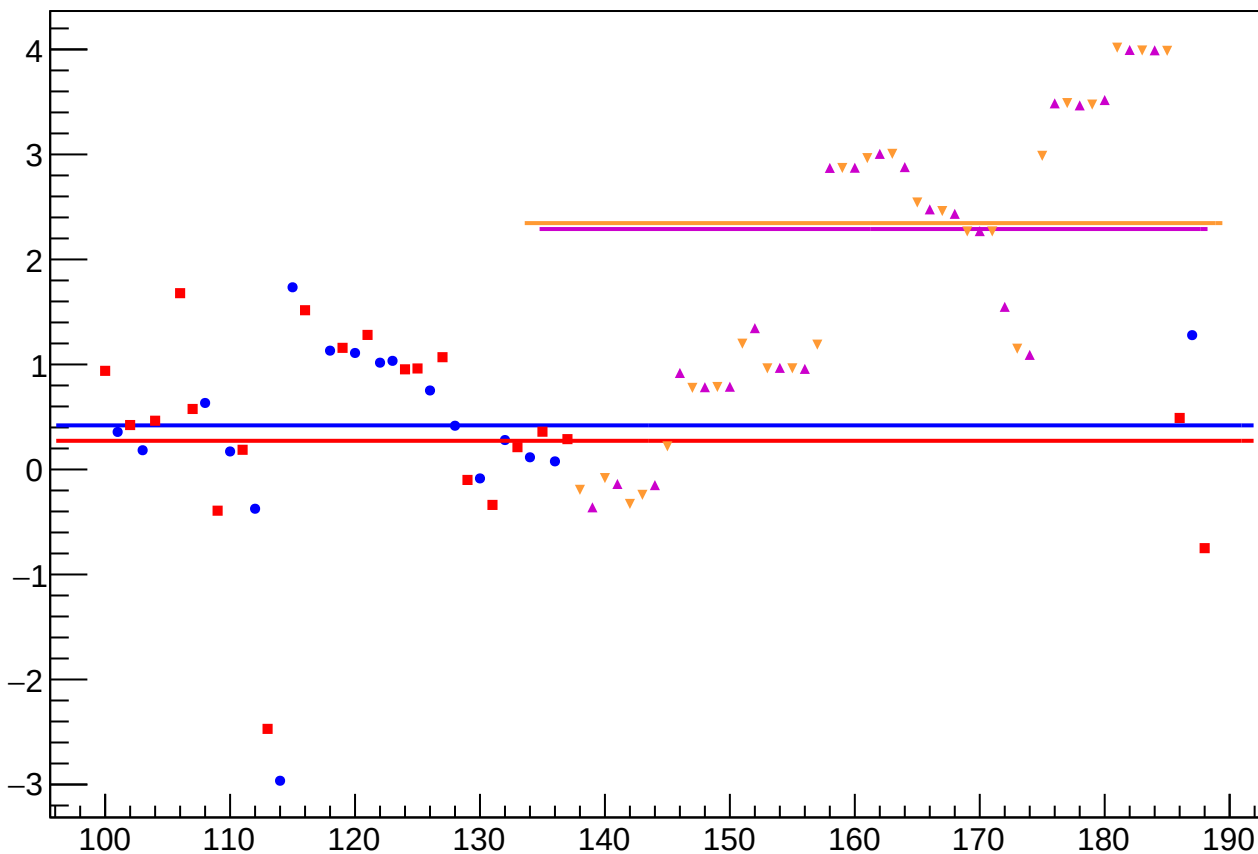
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3222998.2/38

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2015581.6/40

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2677944.8/45

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4696956.8/86

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.420 $\pm$ 0.000 χ^2 /NDF: 294495079.0/17

Left Out: 2.346 $\pm$ 0.000 χ^2 /NDF: 63481331015.4/24

Right Out: 0.273 $\pm$ 0.000 χ^2 /NDF: 1478513246.5/20

Left In: 2.290 $\pm$ 0.000 χ^2 /NDF: 60875537647.3/22

Left: 2.318 $\pm$ 0.000 χ^2 /NDF: 124438674298.4/47

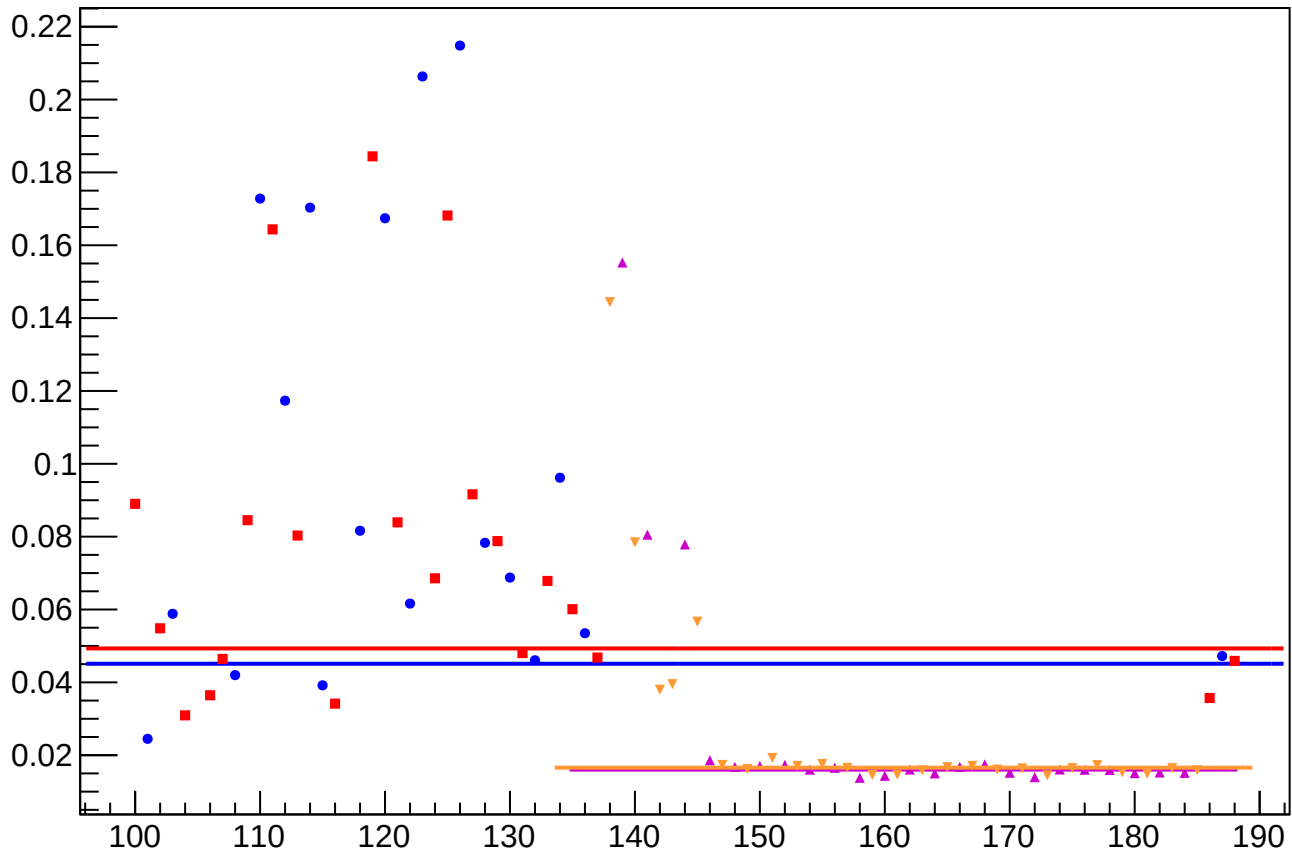
Right: 0.340 $\pm$ 0.000 χ^2 /NDF: 1794167320.9/38

In: 2.226 $\pm$ 0.000 χ^2 /NDF: 67290220749.4/40

Out: 2.262 $\pm$ 0.000 χ^2 /NDF: 73777442356.7/45

All: 2.244 $\pm$ 0.000 χ^2 /NDF: 141102376150.7

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2831259.9/17

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.049 $\pm$ 0.000 χ^2 /NDF: 2314371.3/20

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

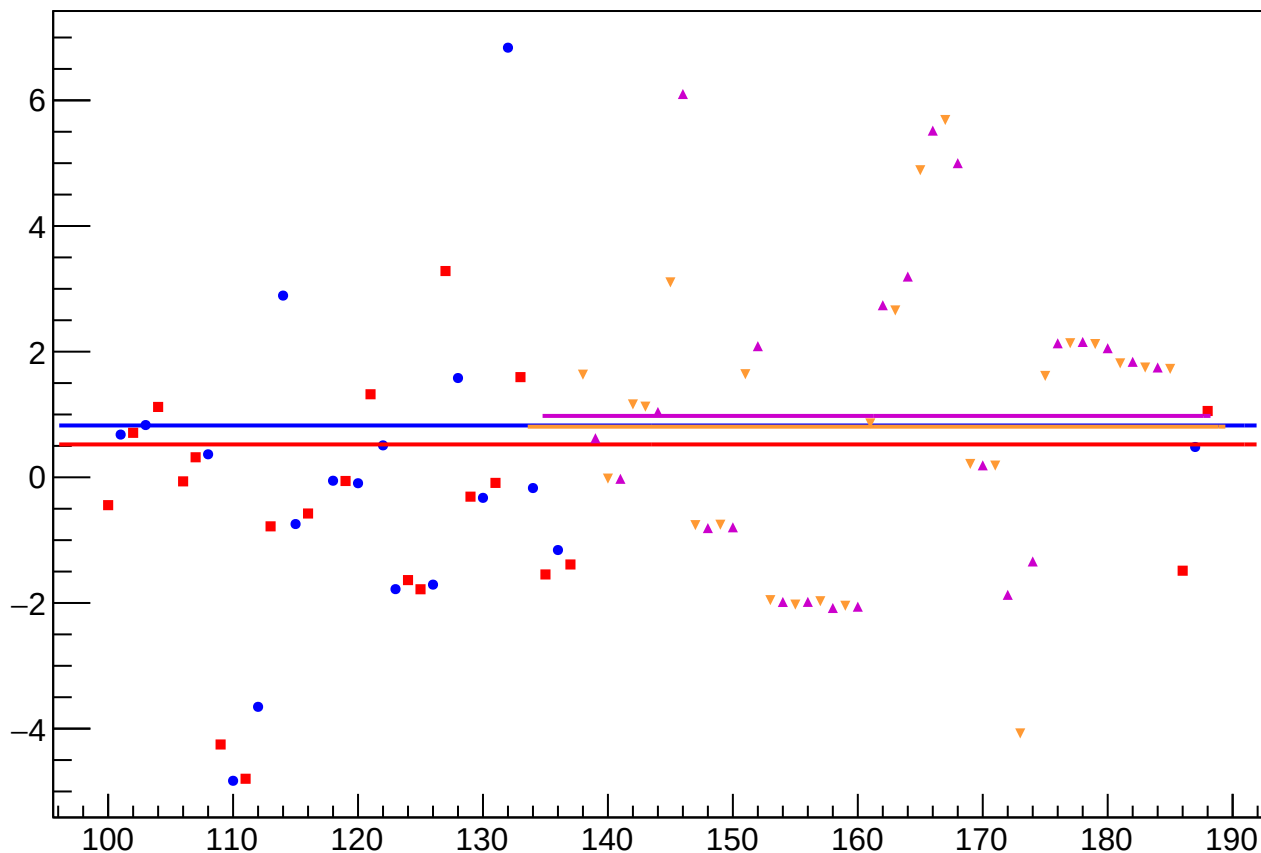
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 5180145.3/38

In: 0.017 $\pm$ 0.000 χ^2 /NDF:8183772.3/40

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:9329438.3/45

All: 0.017 $\pm$ 0.000 χ^2 /NDF: 17554046.2/86

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.825+/-0.000

χ^2/NDF : 10937836203.8/17

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

Right: 0.664+/-0.000 χ^2/NDF : 16494048620.3/38

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

In: 0.971+/-0.000 χ^2/NDF : 579235169065.5/40

Right Out: 0.523+/-0.000

χ^2/NDF : 5364077646.9/20

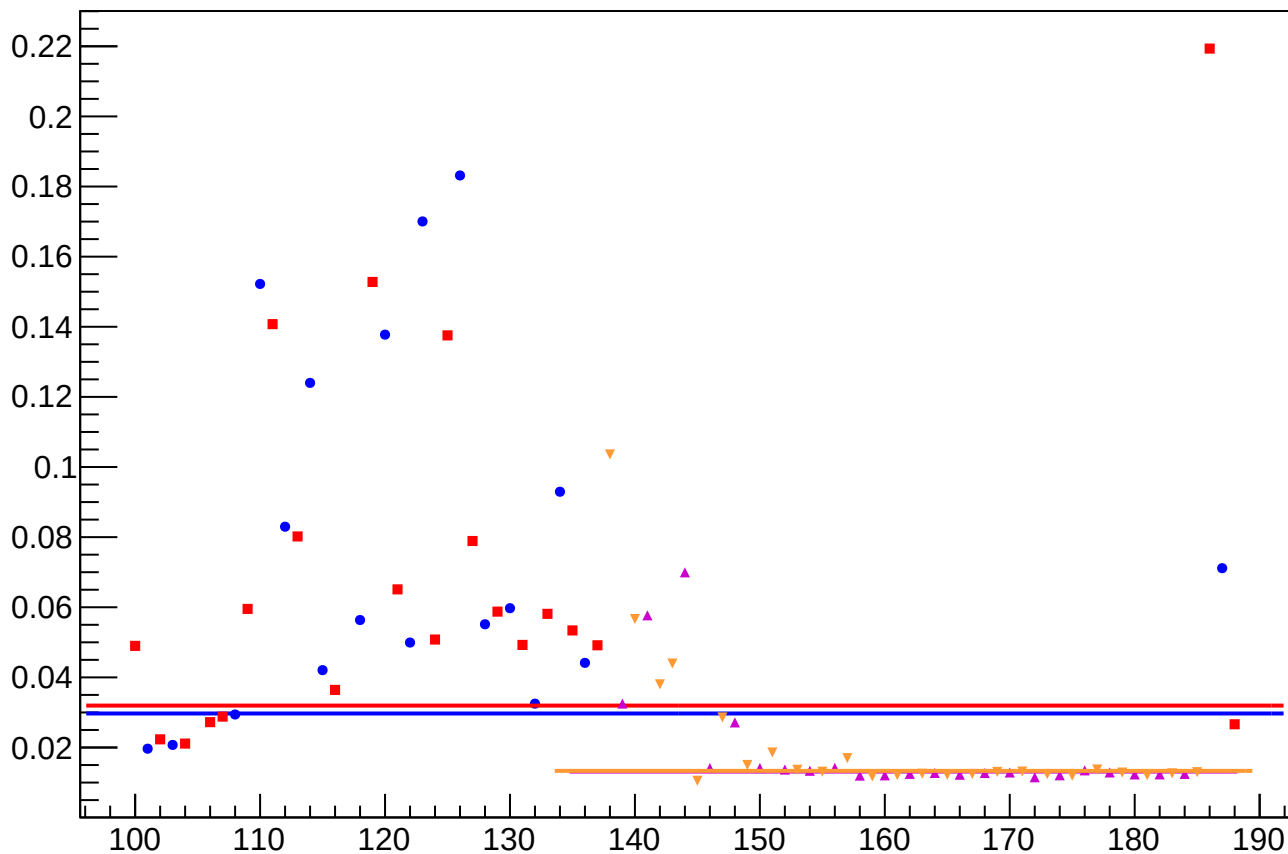
Out: 0.792+/-0.000 χ^2/NDF : 513285440619.6/45

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 0.881+/-0.000 χ^2/NDF : 1093948165318.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 3128717.1/17

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2829753.9/24

Right Out: 0.032 $\pm$ 0.000 χ^2 /NDF: 3656743.1/20

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1946693.6/22

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4779900.3/47

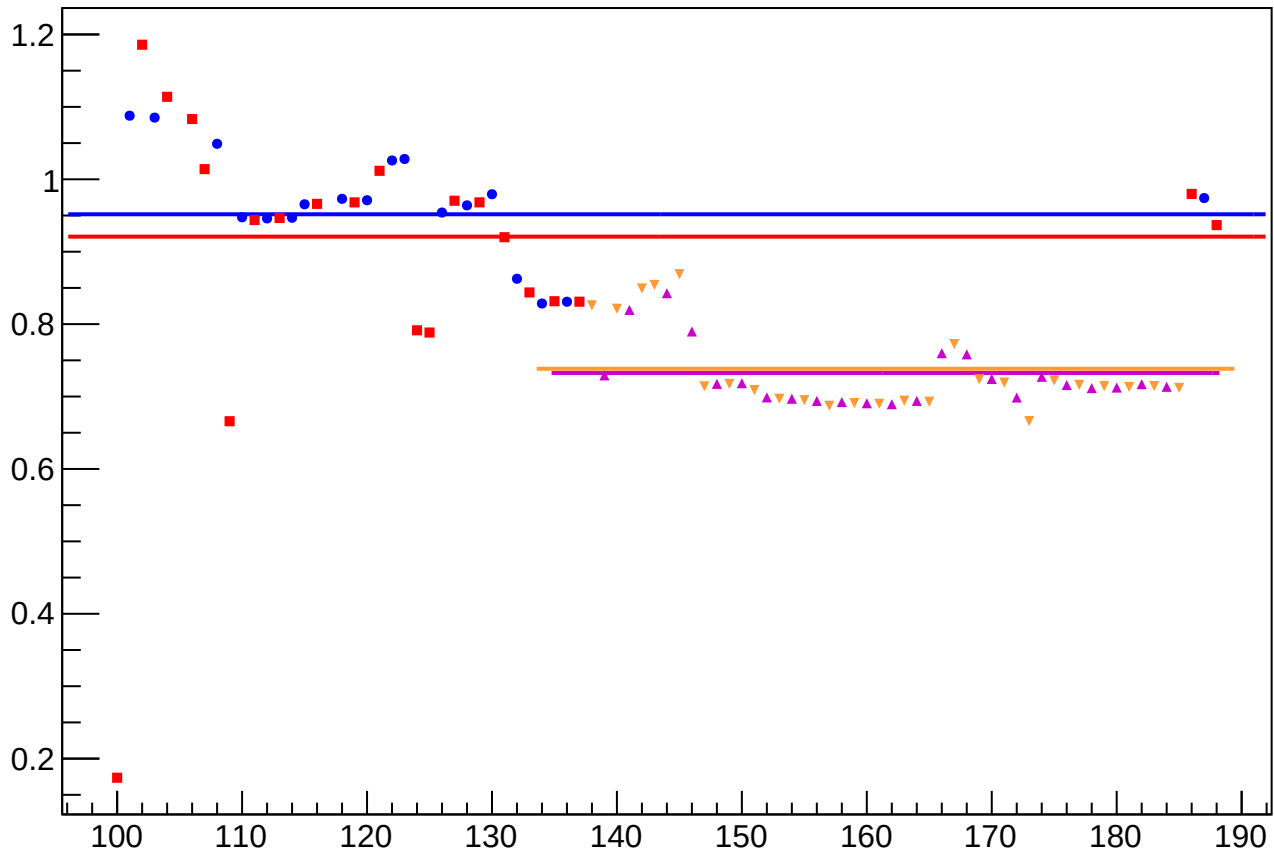
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6806887.8/38

In: 0.014 $\pm$ 0.000 χ^2 /NDF:7152706.3/40

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:9461053.3/45

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 16628468.2/86

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952 $\pm$ 0.000 χ^2 /NDF: 174069007.6/17

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310195180.4/24

Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 377008386.1/20

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 481708989.2/47

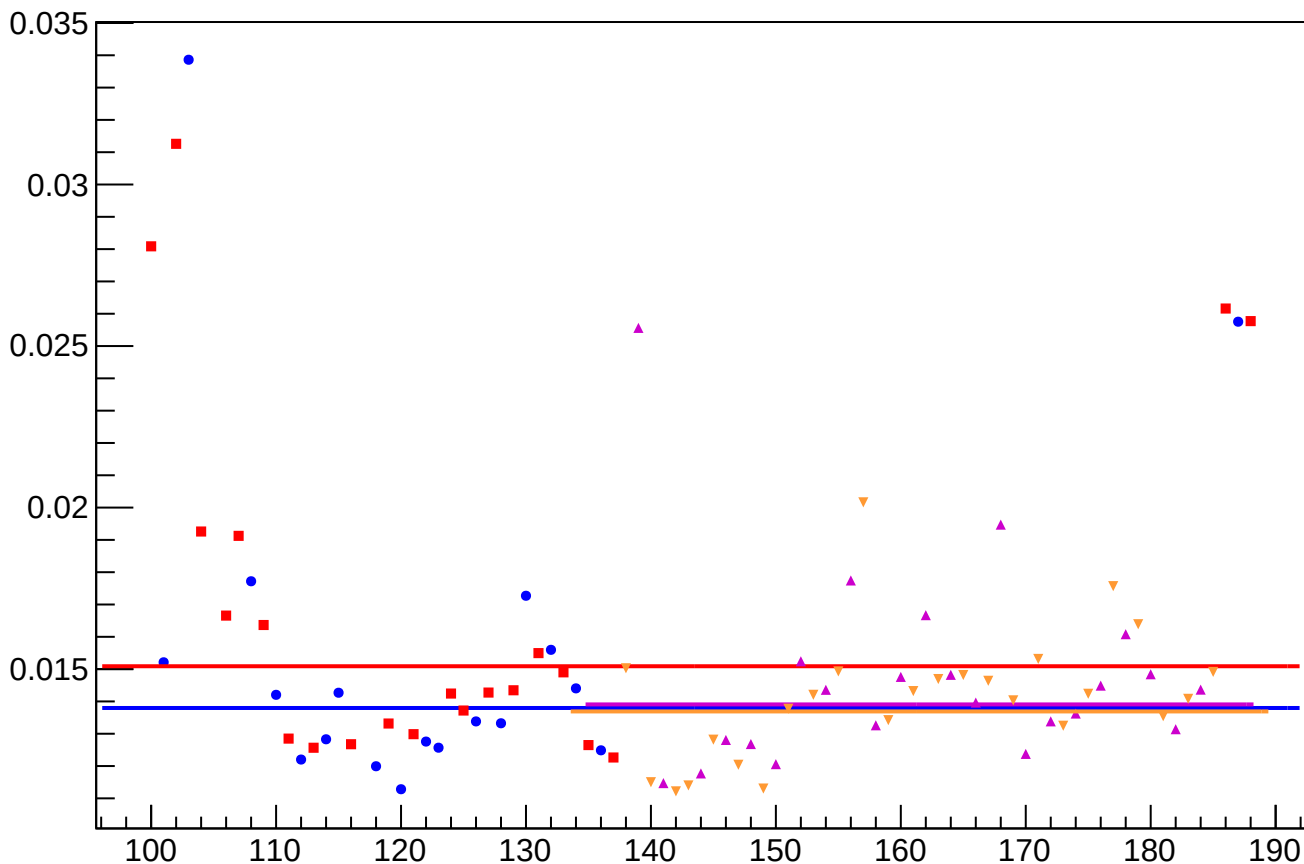
Right: 0.936 $\pm$ 0.000 χ^2 /NDF: 565874791.2/38

In: 0.794 $\pm$ 0.000 χ^2 /NDF:1417447841.3/40

Out: 0.787 $\pm$ 0.000 χ^2 /NDF:1447789051.4/45

All: 0.790 $\pm$ 0.000 χ^2 /NDF: 2868201181.7/86

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 608522.4/17

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:528480.6/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 961106.7/20

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1300553.4/47

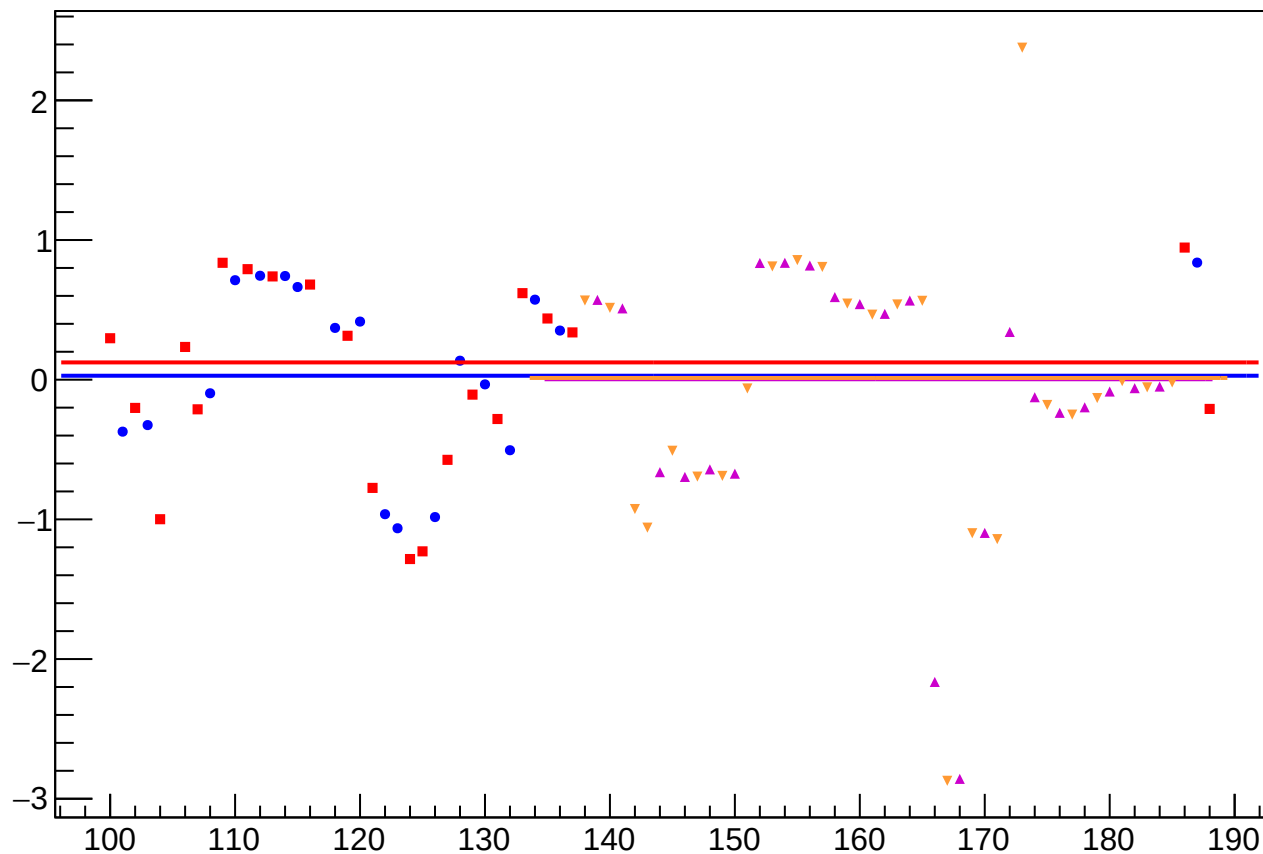
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 1621477.2/38

In: 0.014 $\pm$ 0.000 χ^2 /NDF:1377228.4/40

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:1579018.0/45

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 2960110.5/86

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6341784919.5/17

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.124+/-0.000 χ^2/NDF : 13038920858.3/20

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

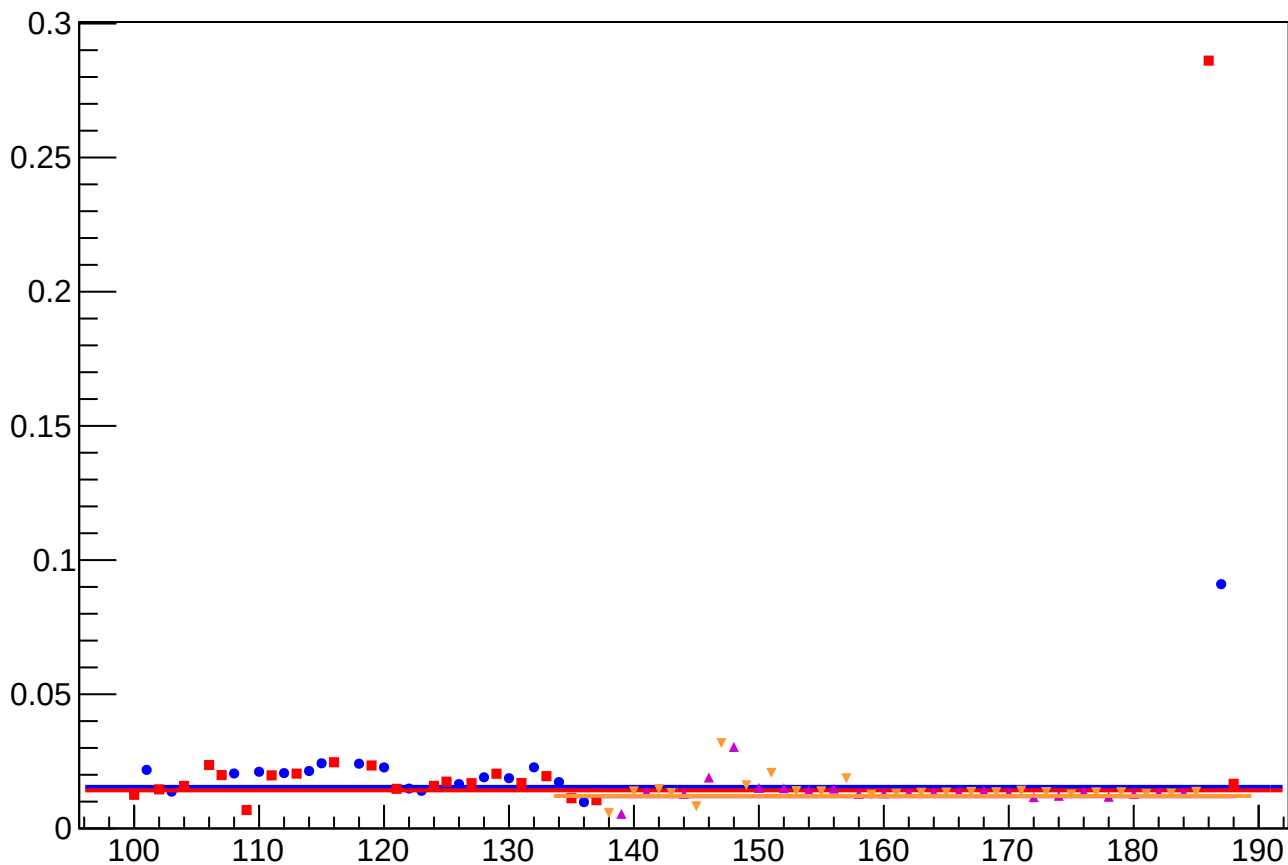
Right: 0.082+/-0.000 χ^2/NDF : 19502195240.3/38

In: 0.008+/-0.000 χ^2/NDF : 85180554009.3/40

Out: 0.037+/-0.000 χ^2/NDF : 109720005502.1/45

All: 0.023+/-0.000 χ^2/NDF : 194956899167.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1353536.7/17

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2219049.1/20

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

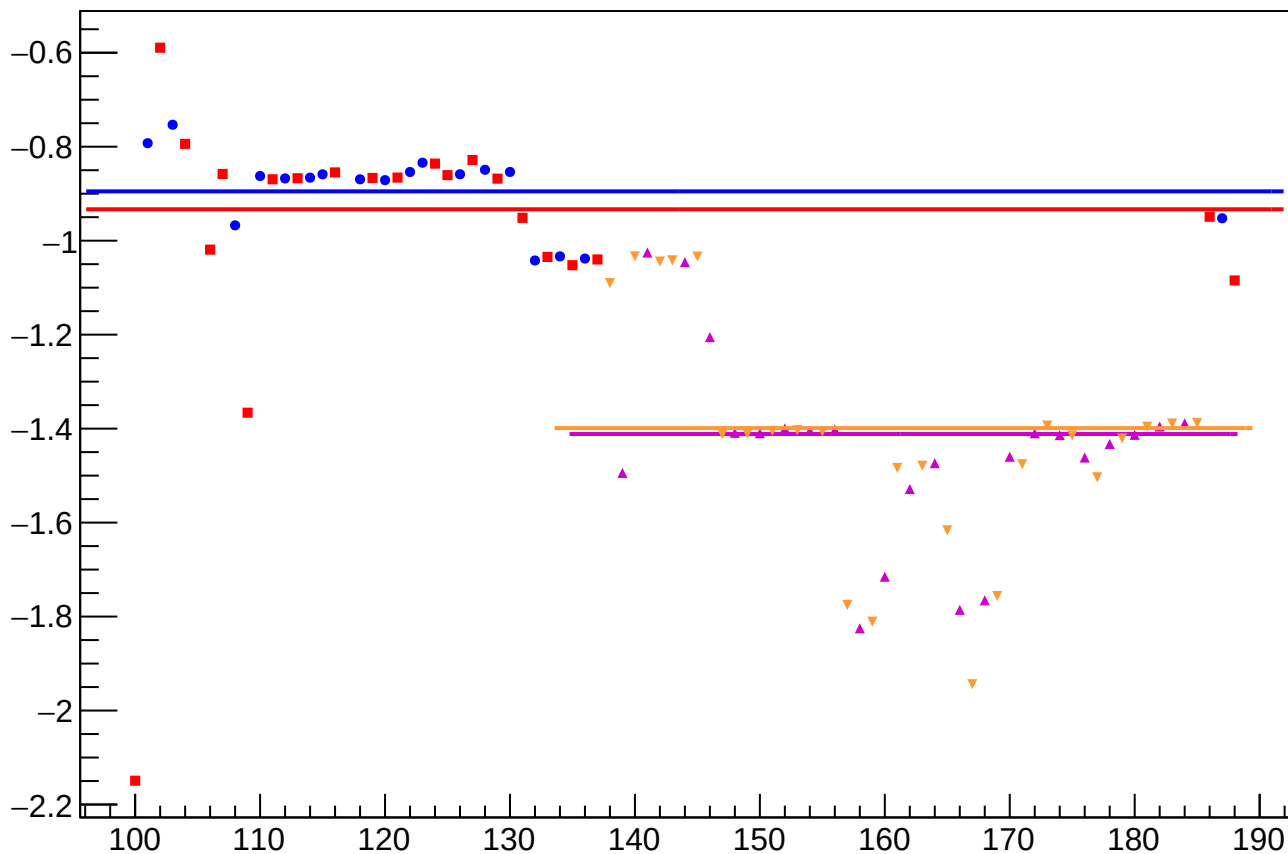
Right: 0.015+/-0.000 χ^2/NDF : 3617812.6/38

In: 0.013+/-0.000 χ^2/NDF : 4828223.3/40

Out: 0.013+/-0.000 χ^2/NDF : 5532672.4/45

All: 0.013+/-0.000 χ^2/NDF : 10361709.7/86

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895 ± 0.000 $\chi^2/\text{NDF}: 37893729.7/17$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.933 ± 0.000 $\chi^2/\text{NDF}: 135197731.7/20$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

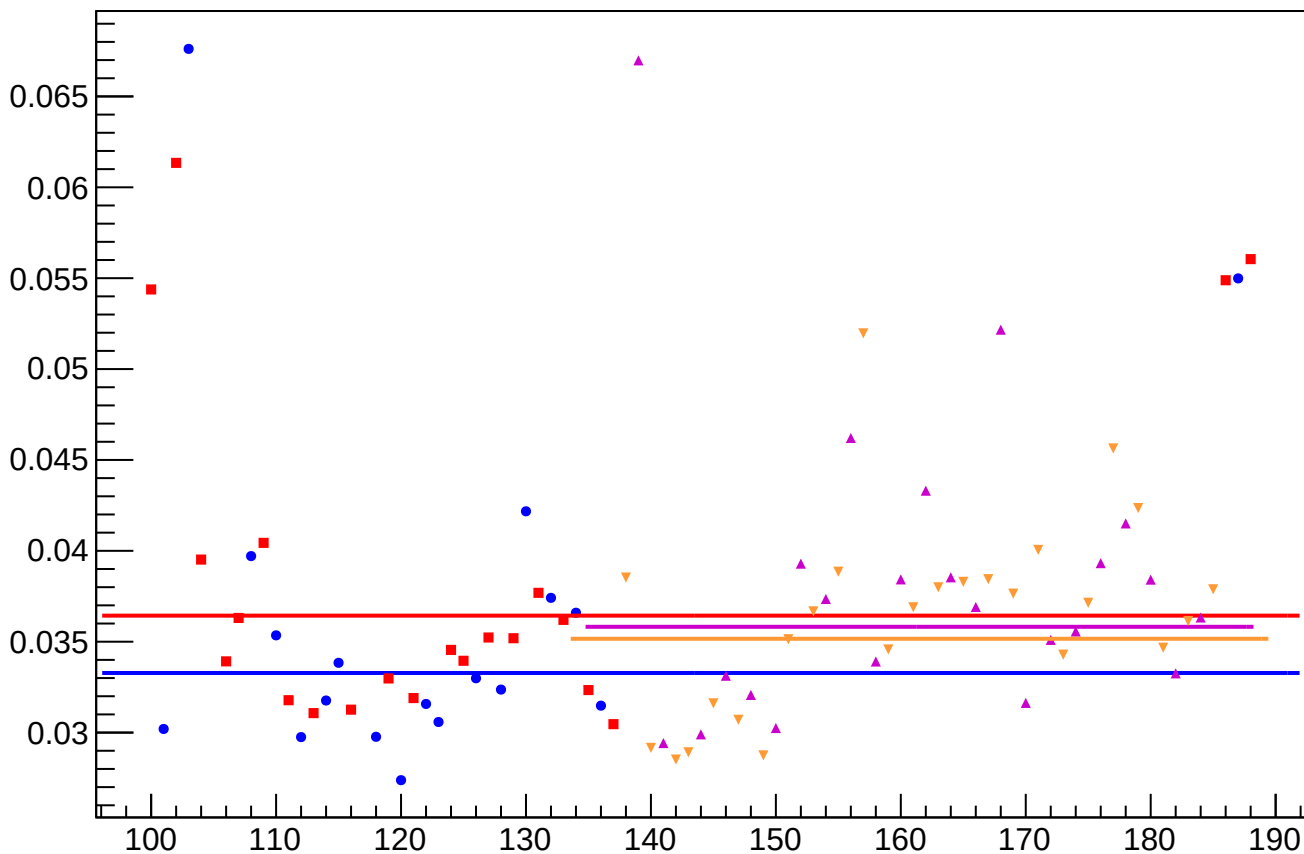
Right: -0.914 ± 0.000 $\chi^2/\text{NDF}: 177036171.9/38$

In: -1.250 ± 0.000 $\chi^2/\text{NDF}: 1540310662.4/40$

Out: -1.261 ± 0.000 $\chi^2/\text{NDF}: 1703136574.3/45$

All: -1.256 ± 0.000 $\chi^2/\text{NDF}: 3244513608.0/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 454058.3/17

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.036+/-0.000 χ^2/NDF : 593218.3/20

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

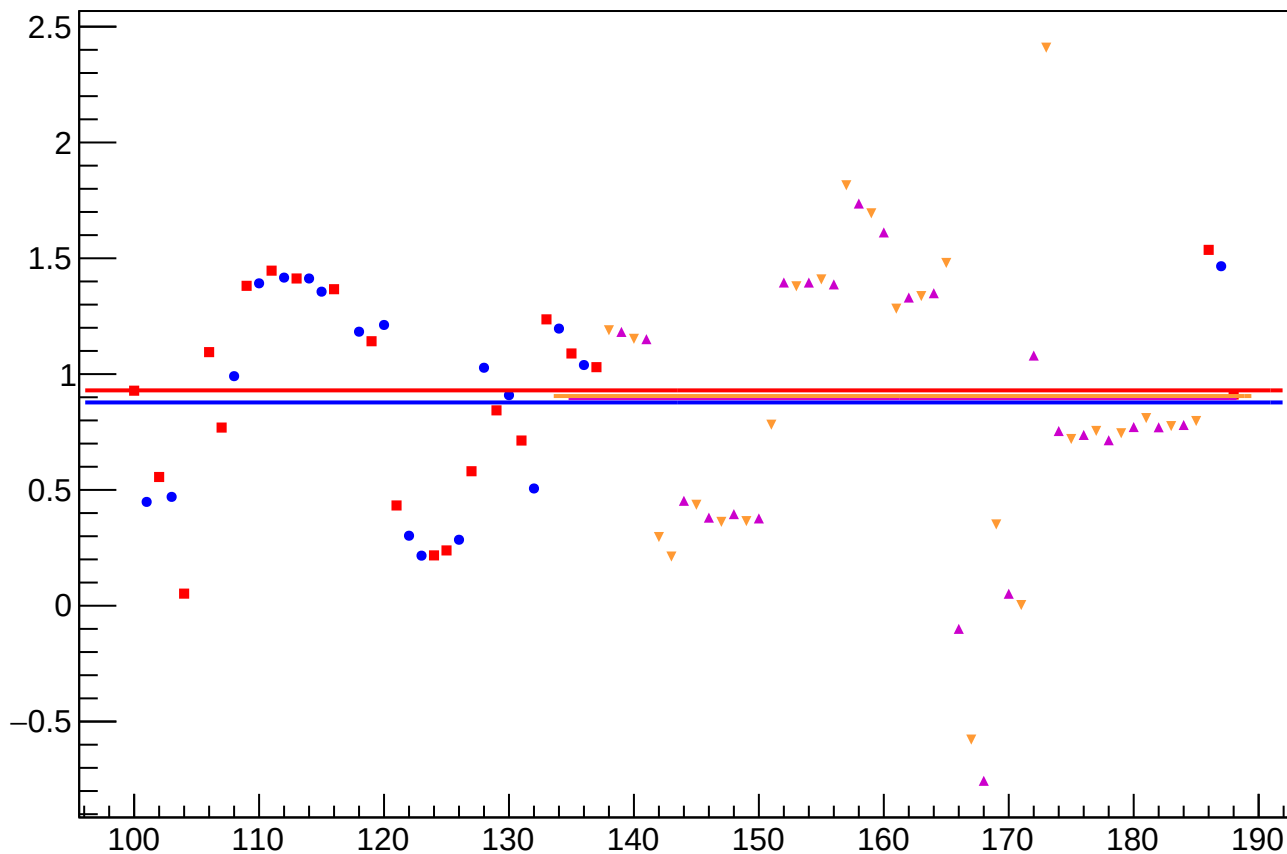
Right: 0.035+/-0.000 χ^2/NDF : 1101112.6/38

In: 0.035+/-0.000 χ^2/NDF : 1366090.8/40

Out: 0.036+/-0.000 χ^2/NDF : 1200839.3/45

All: 0.035+/-0.000 χ^2/NDF : 2571551.0/86

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.878 $\pm$ 0.000 χ^2 /NDF: 6505552146.8/17

Left Out: 0.905 $\pm$ 0.000 χ^2 /NDF: 84265726513.8/24

Right Out: 0.930 $\pm$ 0.000 χ^2 /NDF: 9967809778.4/20

Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

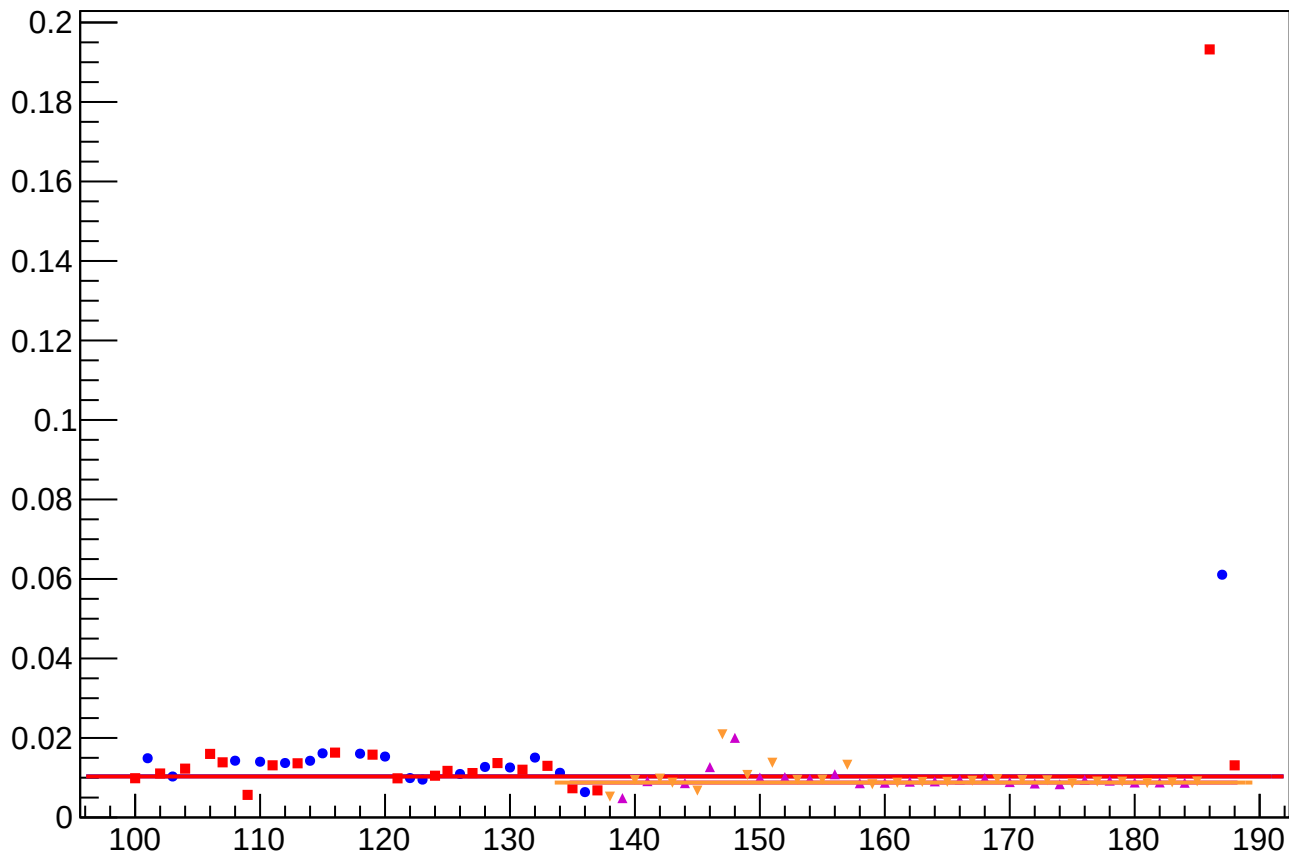
Right: 0.906 $\pm$ 0.000 χ^2 /NDF: 16549859429.7/38

In: 0.892 $\pm$ 0.000 χ^2 /NDF: 73114142081.0/40

Out: 0.911 $\pm$ 0.000 χ^2 /NDF: 94262048787.9/45

All: 0.902 $\pm$ 0.000 χ^2 /NDF: 167420449517.1

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1423011.9/17

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1866691.6/20

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

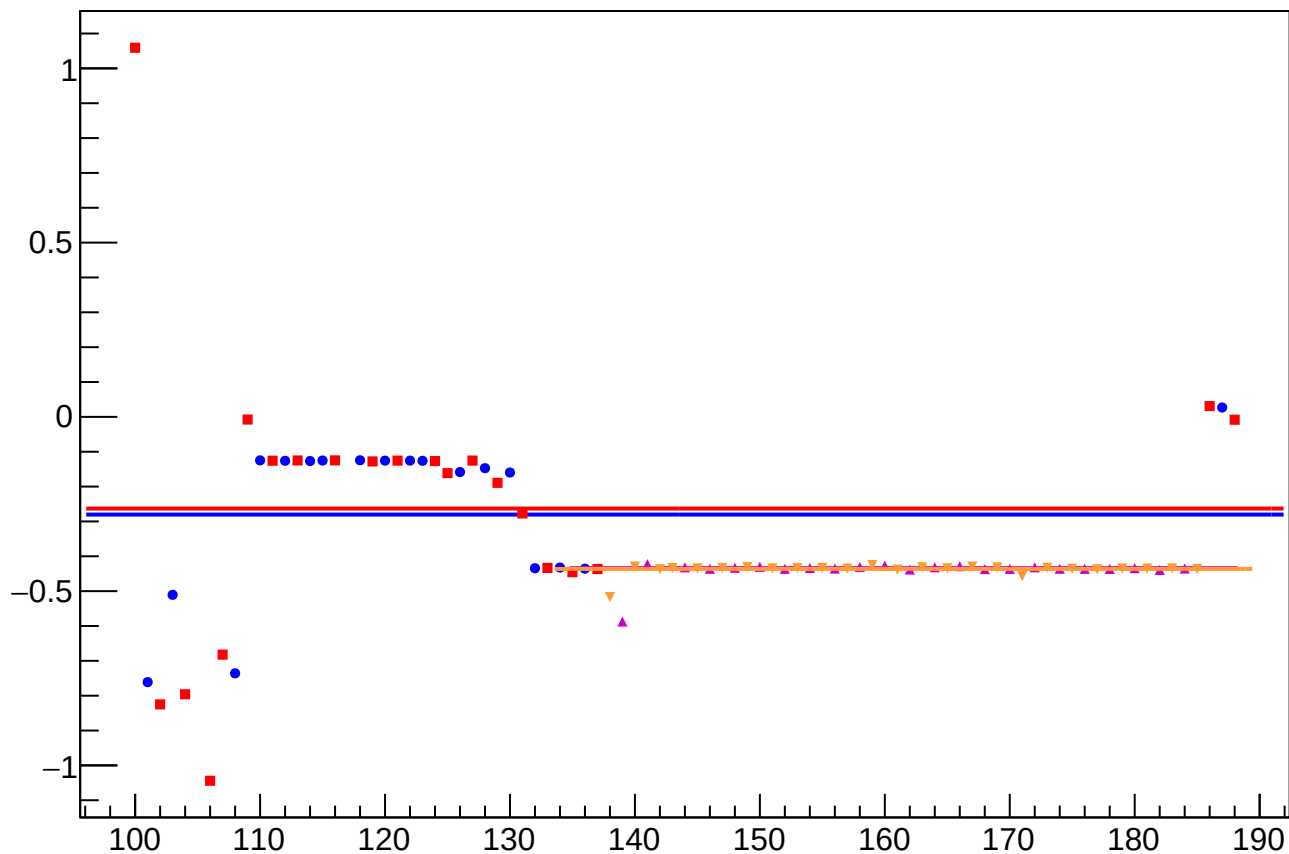
Right: 0.010+/-0.000 χ^2/NDF : 3289797.7/38

In: 0.009+/-0.000 χ^2/NDF :3238240.7/40

Out: 0.009+/-0.000 χ^2/NDF :3786008.2/45

All: 0.009+/-0.000 χ^2/NDF : 7024318.0/86

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.280 ± 0.000 $\chi^2/\text{NDF}: 913314811.6/17$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28774660.0/24$

Right Out: -0.263 ± 0.000 $\chi^2/\text{NDF}: 1011277557.5/20$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53122221.7/47$

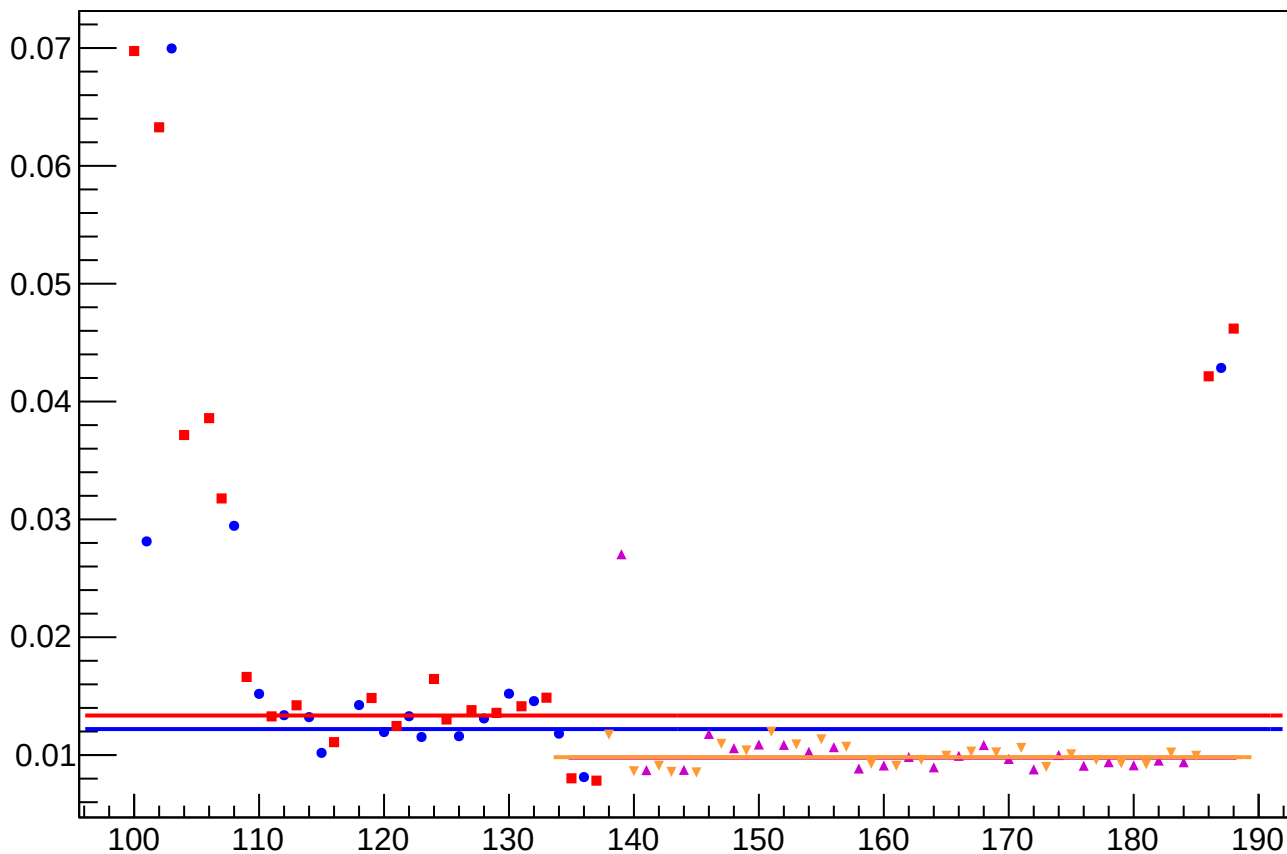
Right: -0.272 ± 0.000 $\chi^2/\text{NDF}: 1929234602.4/38$

In: -0.407 ± 0.000 $\chi^2/\text{NDF}: 1563360742.9/40$

Out: -0.409 ± 0.000 $\chi^2/\text{NDF}: 1807337920.8/45$

All: -0.408 ± 0.000 $\chi^2/\text{NDF}: 3370922507.9/8$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1873670.5/17

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3176405.9/20

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

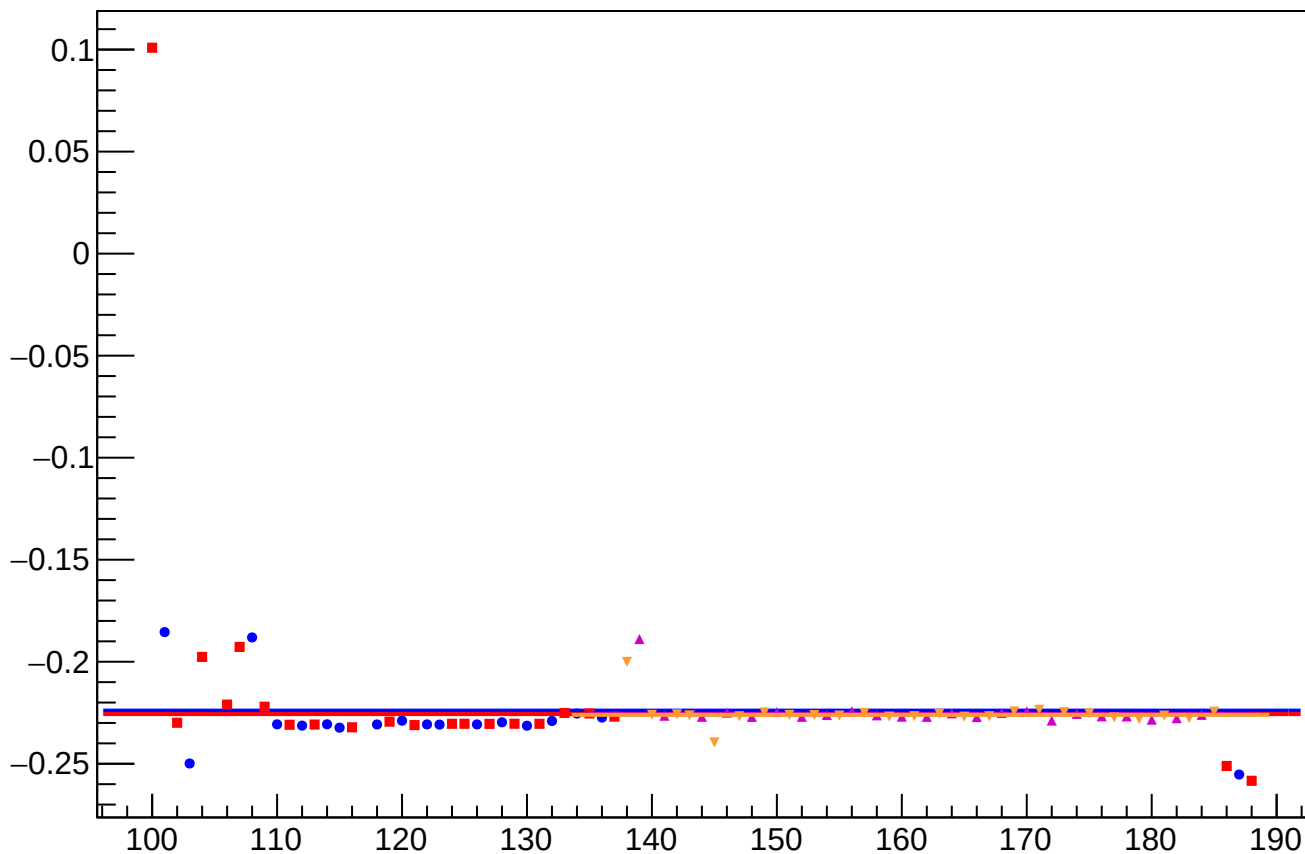
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 5091521.7/38

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2934151.3/40

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:4086221.8/45

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 7026572.4/86

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 75483068.5/17

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.226+/-0.000 χ^2/NDF : 189344287.8/20

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

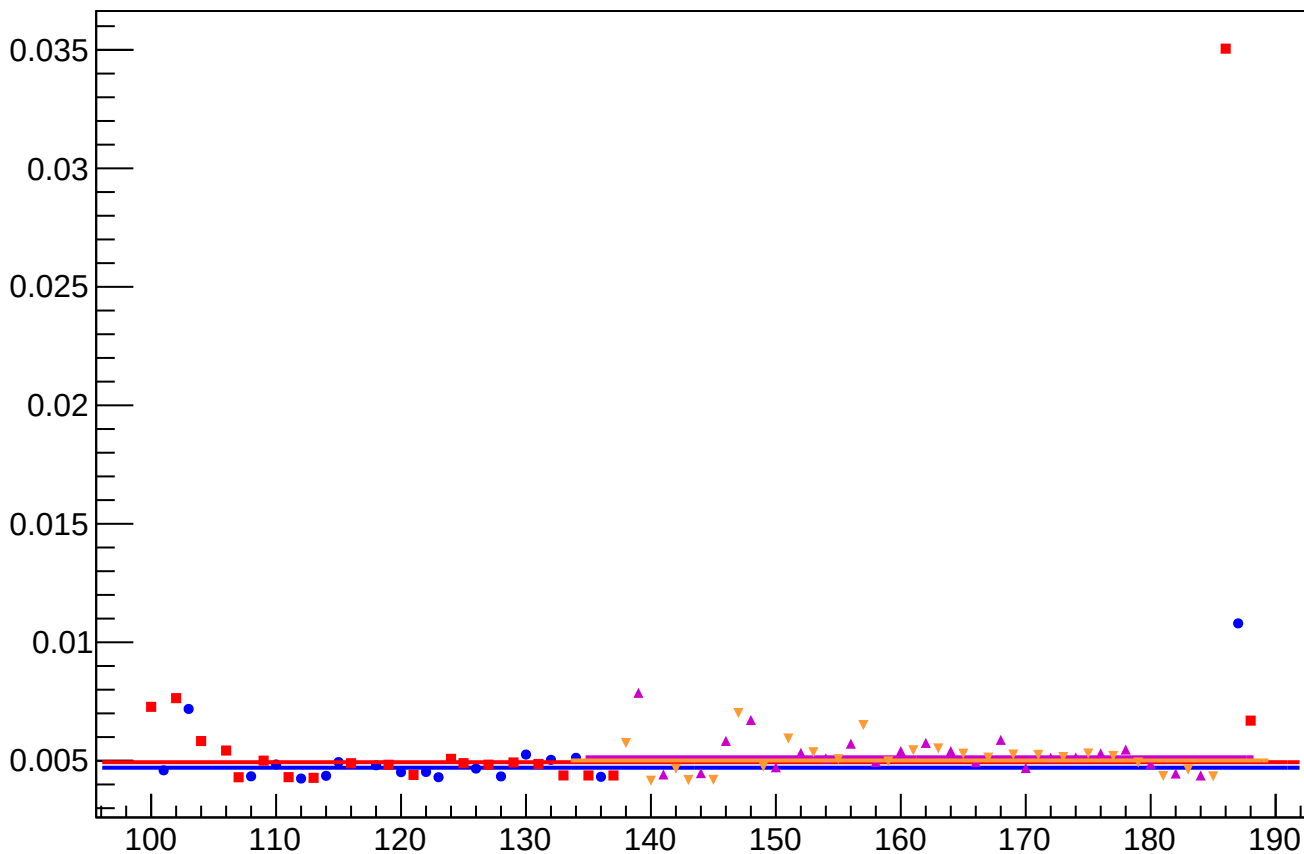
Right: -0.225+/-0.000 χ^2/NDF : 265247930.2/38

In: -0.225+/-0.000 χ^2/NDF : 91321007.8/40

Out: -0.226+/-0.000 χ^2/NDF : 210575813.3/45

All: -0.226+/-0.000 χ^2/NDF : 302155090.2/86

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 269470.8/17

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 901287.8/20

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

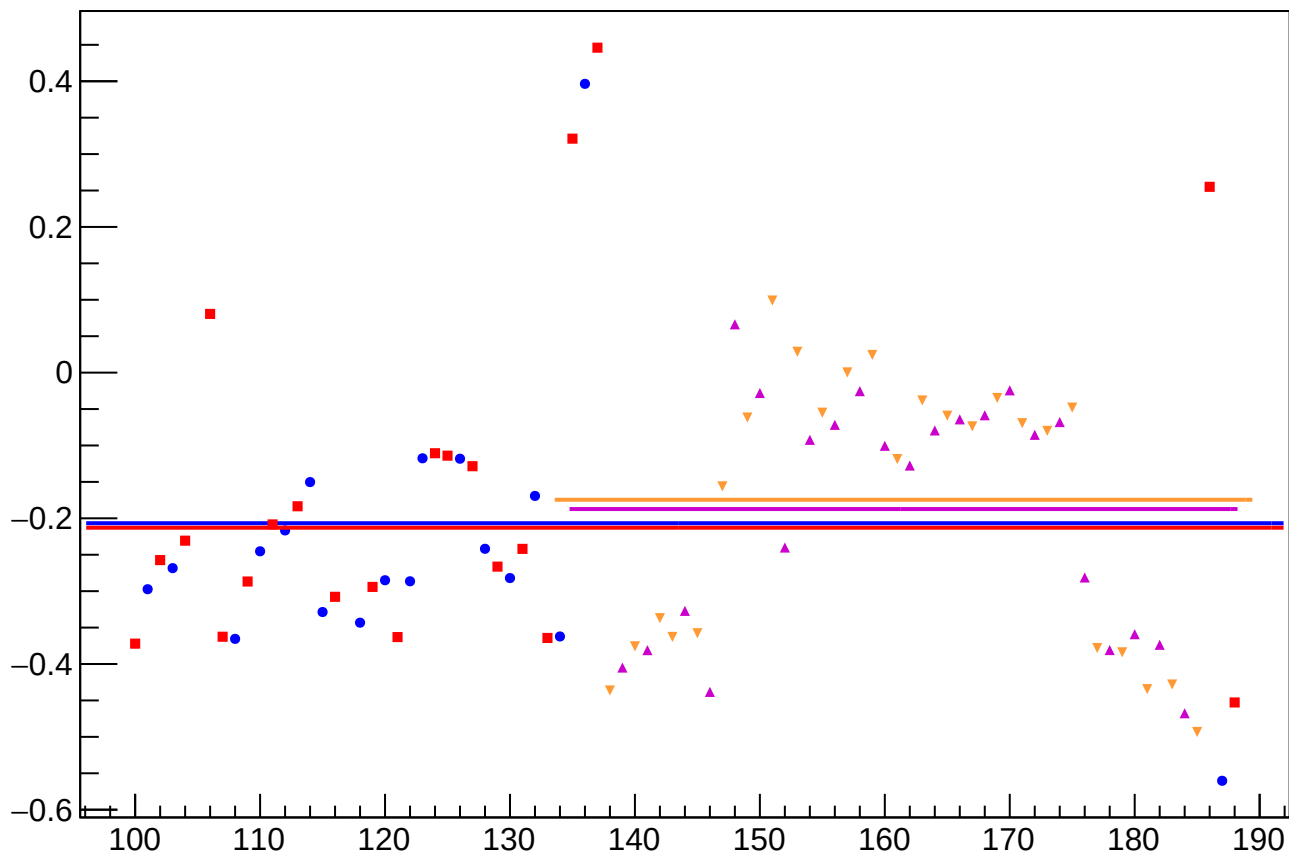
Right: 0.005+/-0.000 χ^2/NDF : 1186225.1/38

In: 0.005+/-0.000 χ^2/NDF : 836091.4/40

Out: 0.005+/-0.000 χ^2/NDF : 1434191.0/45

All: 0.005+/-0.000 χ^2/NDF : 2270618.9/86

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.207 $\pm$ 0.000 χ^2 /NDF: 6310796669.5/17

Left Out: -0.174 $\pm$ 0.000 χ^2 /NDF: 18025533236.1/24

Right Out: -0.213 $\pm$ 0.000 χ^2 /NDF: 7800722937.8/20

Left In: -0.187 $\pm$ 0.000 χ^2 /NDF: 12816646575.4/22

Left: -0.181 $\pm$ 0.000 χ^2 /NDF: 30888184231.6/47

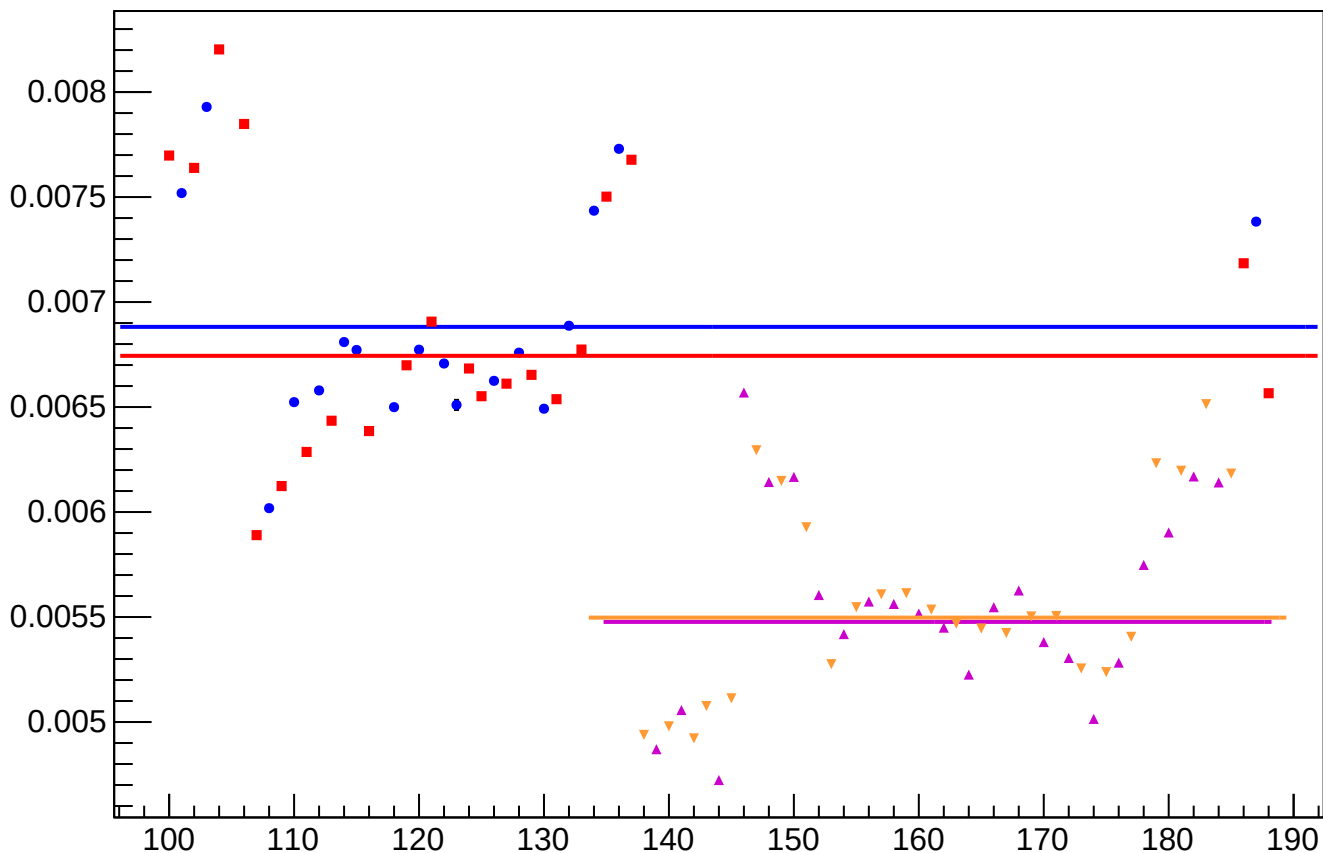
Right: -0.210 $\pm$ 0.000 χ^2 /NDF: 14114481938.9/38

In: -0.191 $\pm$ 0.000 χ^2 /NDF: 19169896542.8/40

Out: -0.184 $\pm$ 0.000 χ^2 /NDF: 26026849649.8/45

All: -0.187 $\pm$ 0.000 χ^2 /NDF: 45218318006.1/100

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 80070.5/17

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 109531.2/20

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

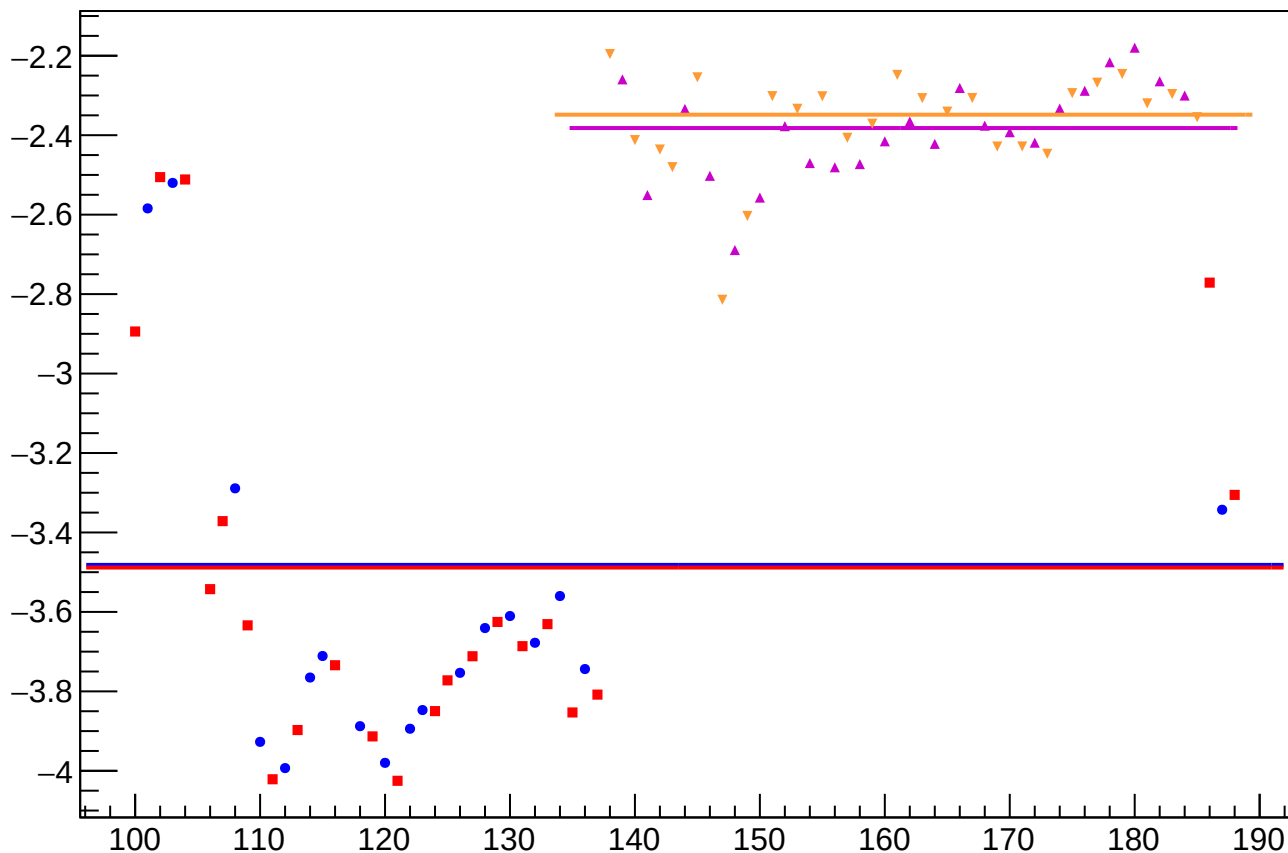
Right: 0.007+/-0.000 χ^2/NDF : 192596.7/38

In: 0.006+/-0.000 χ^2/NDF :725349.5/40

Out: 0.006+/-0.000 χ^2/NDF :731623.2/45

All: 0.006+/-0.000 χ^2/NDF : 1457468.5/86

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.482+/-0.000 χ^2/NDF : 27176070797.1/17

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.488+/-0.000 χ^2/NDF : 28229049128.2/20

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

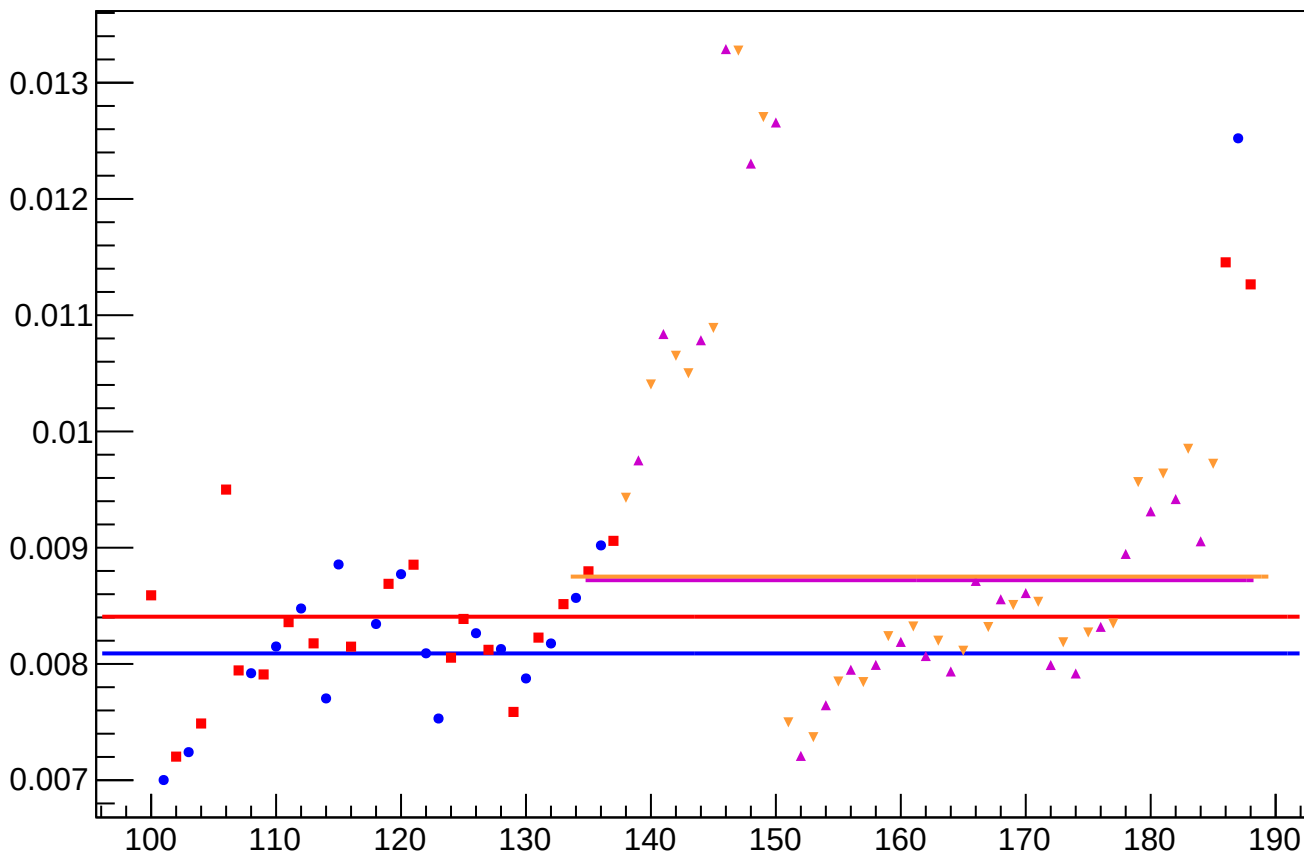
Right: -3.485+/-0.000 χ^2/NDF : 55407447267.0/38

In: -2.735+/-0.000 χ^2/NDF : 112405087088.7/40

Out: -2.727+/-0.000 χ^2/NDF : 127474493870.0/45

All: -2.731+/-0.000 χ^2/NDF : 239890801150.5

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 109687.6/17

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.008+/-0.000 χ^2/NDF : 238726.0/20

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

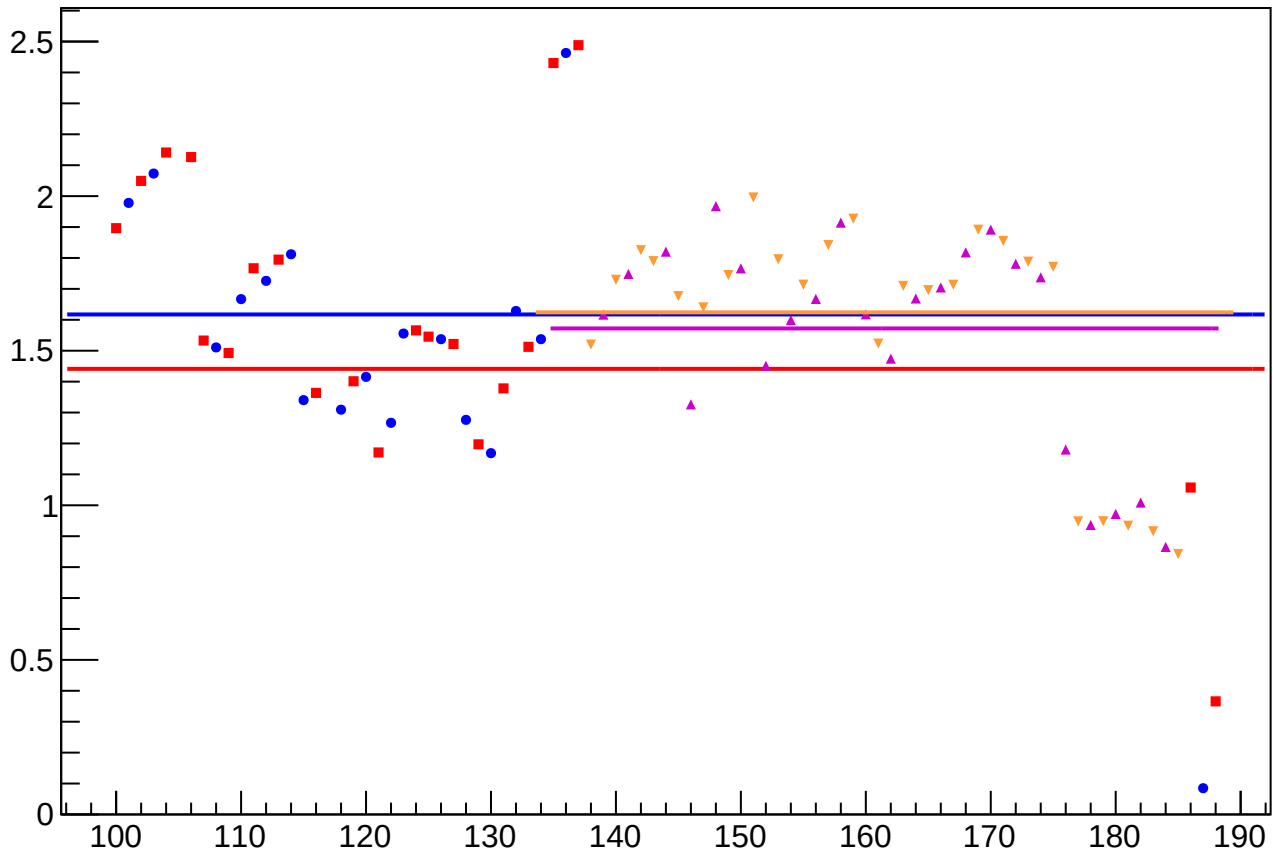
Right: 0.008+/-0.000 χ^2/NDF : 359010.5/38

In: 0.009+/-0.000 χ^2/NDF : 911972.3/40

Out: 0.009+/-0.000 χ^2/NDF : 920180.7/45

All: 0.009+/-0.000 χ^2/NDF : 1836738.9/86

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 8974952940.0/17

Left Out: 1.624 $\pm$ 0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.441 $\pm$ 0.000 χ^2/NDF : 18158261329.8/20

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

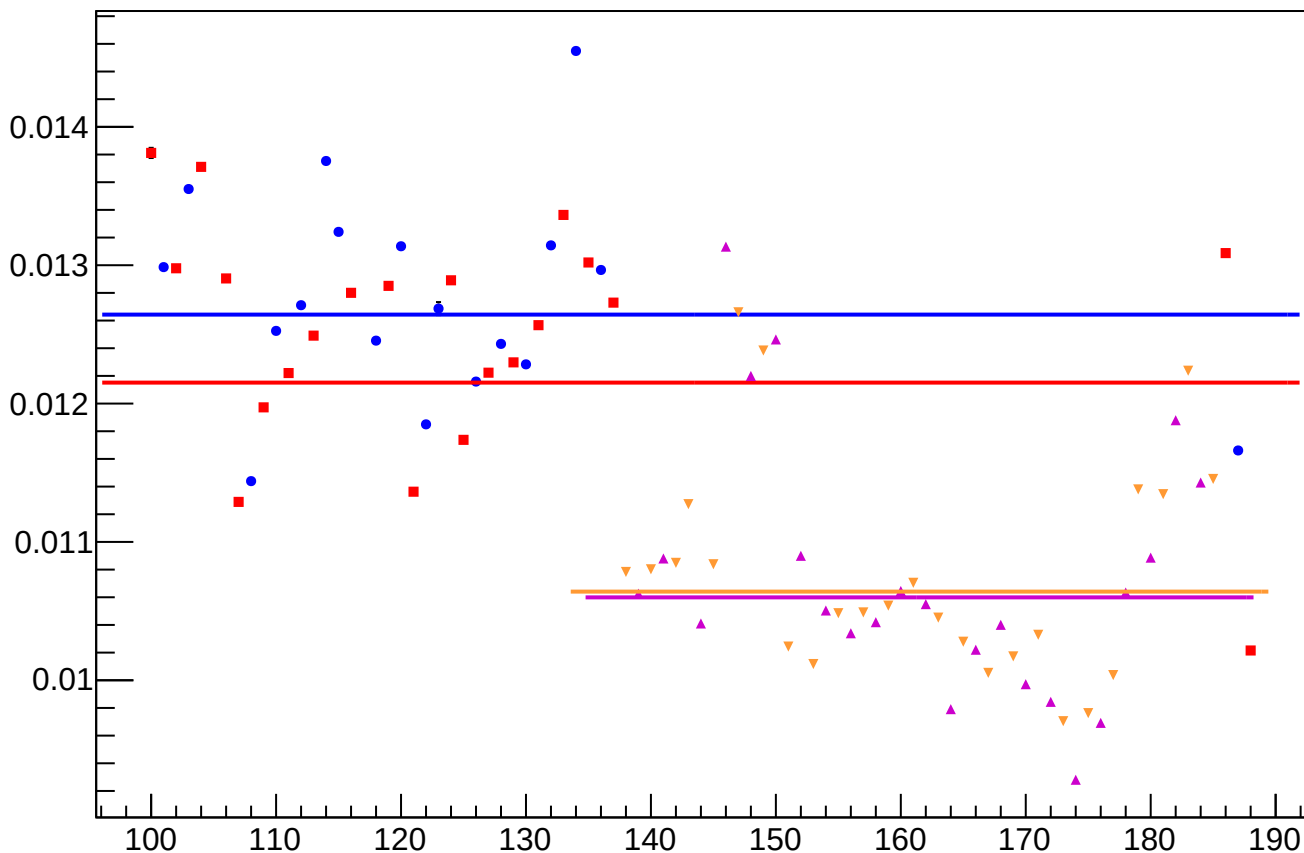
Right: 1.518 $\pm$ 0.000 χ^2/NDF : 27866118223.2/38

In: 1.582 $\pm$ 0.000 χ^2/NDF : 23272220735.1/40

Out: 1.577 $\pm$ 0.000 χ^2/NDF : 36141407370.6/45

All: 1.579 $\pm$ 0.000 χ^2/NDF : 59416401882.2/80

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 33814.3/17

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 114414.1/20

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

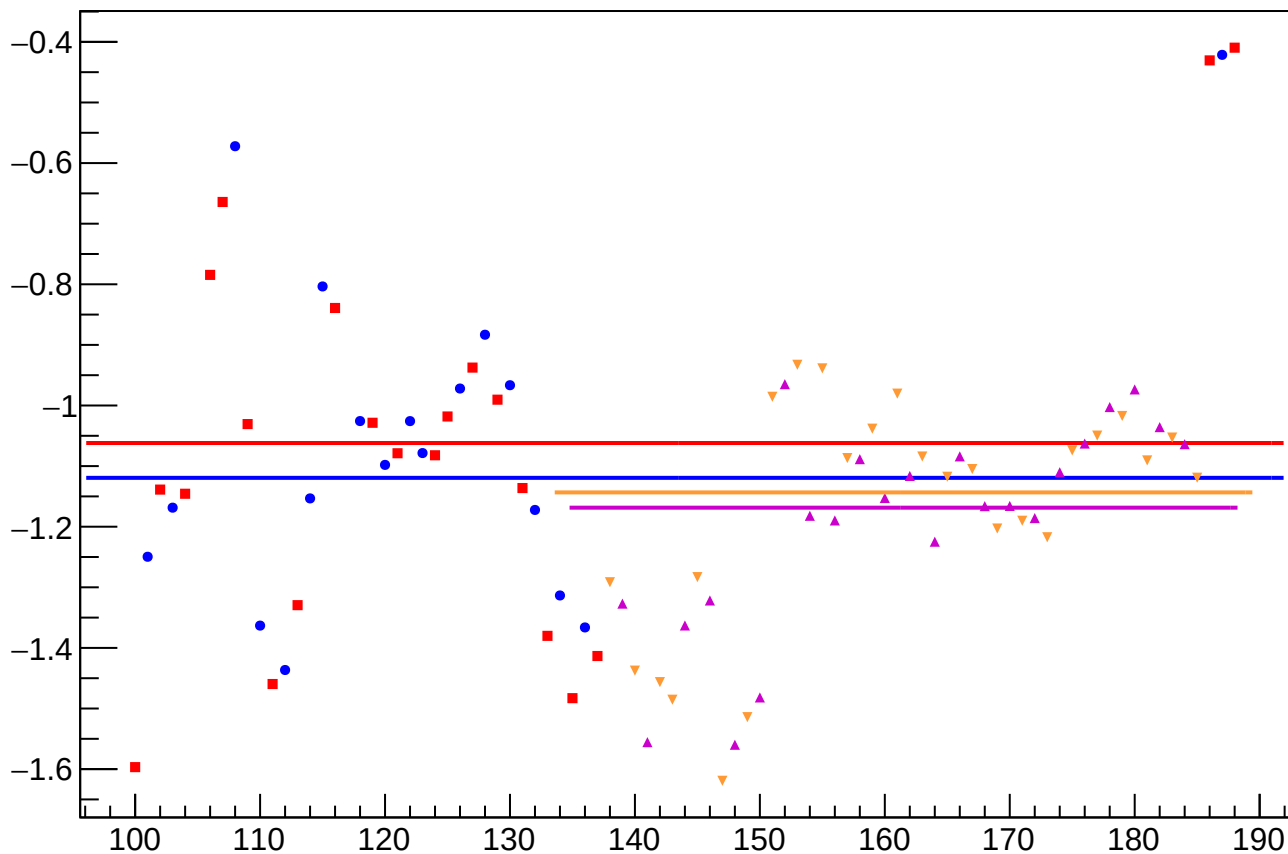
Right: 0.012+/-0.000 χ^2/NDF : 159668.6/38

In: 0.011+/-0.000 χ^2/NDF :510477.5/40

Out: 0.011+/-0.000 χ^2/NDF :458899.9/45

All: 0.011+/-0.000 χ^2/NDF : 969435.1/86

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.119+/-0.000 χ^2/NDF : 3991483454.1/17

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -1.062+/-0.000 χ^2/NDF : 8084355096.1/20

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

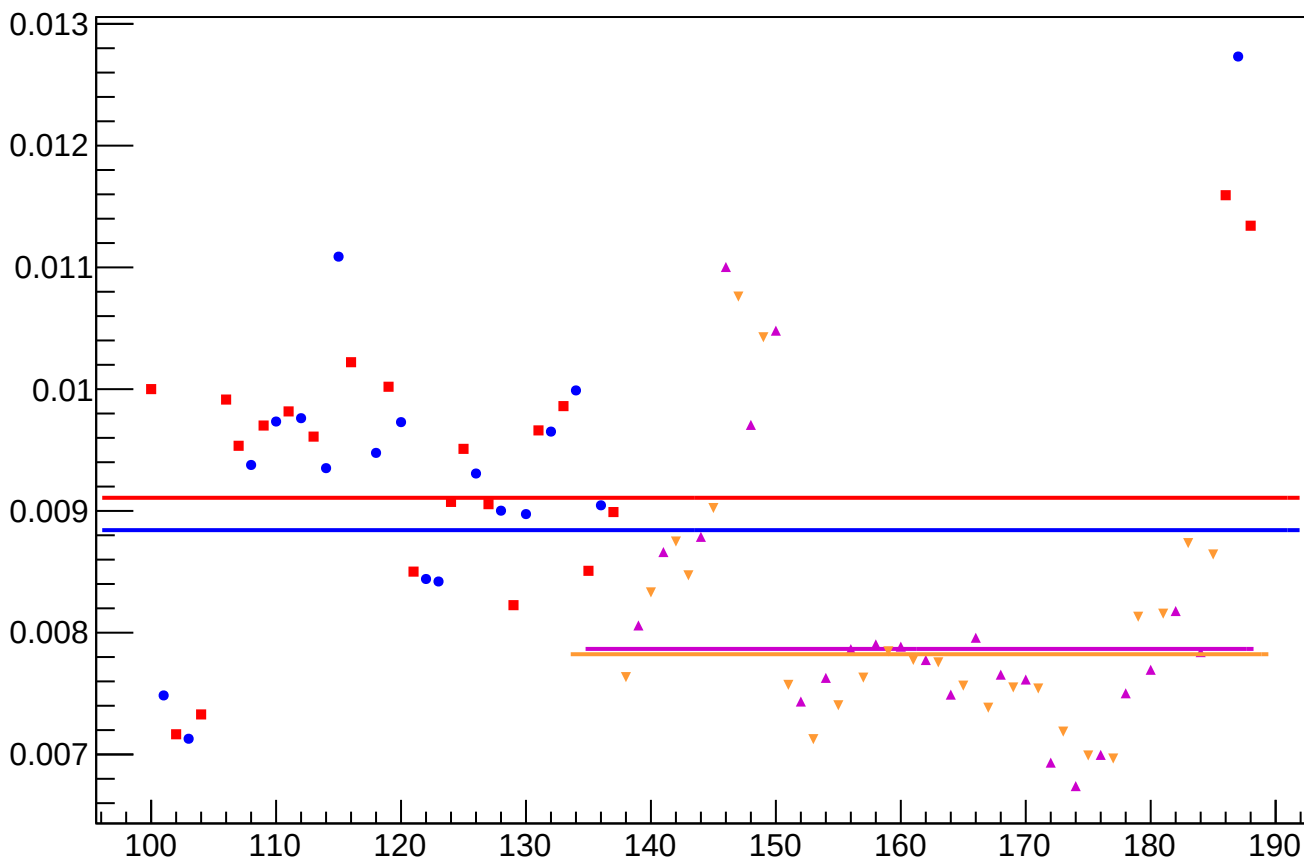
Right: -1.089+/-0.000 χ^2/NDF : 12221201856.9/38

In: -1.157+/-0.000 χ^2/NDF : 10506873835.1/40

Out: -1.123+/-0.000 χ^2/NDF : 16527178137.1/45

All: -1.139+/-0.000 χ^2/NDF : 27239087637.1/...

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 179183.5/17

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 286415.9/20

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

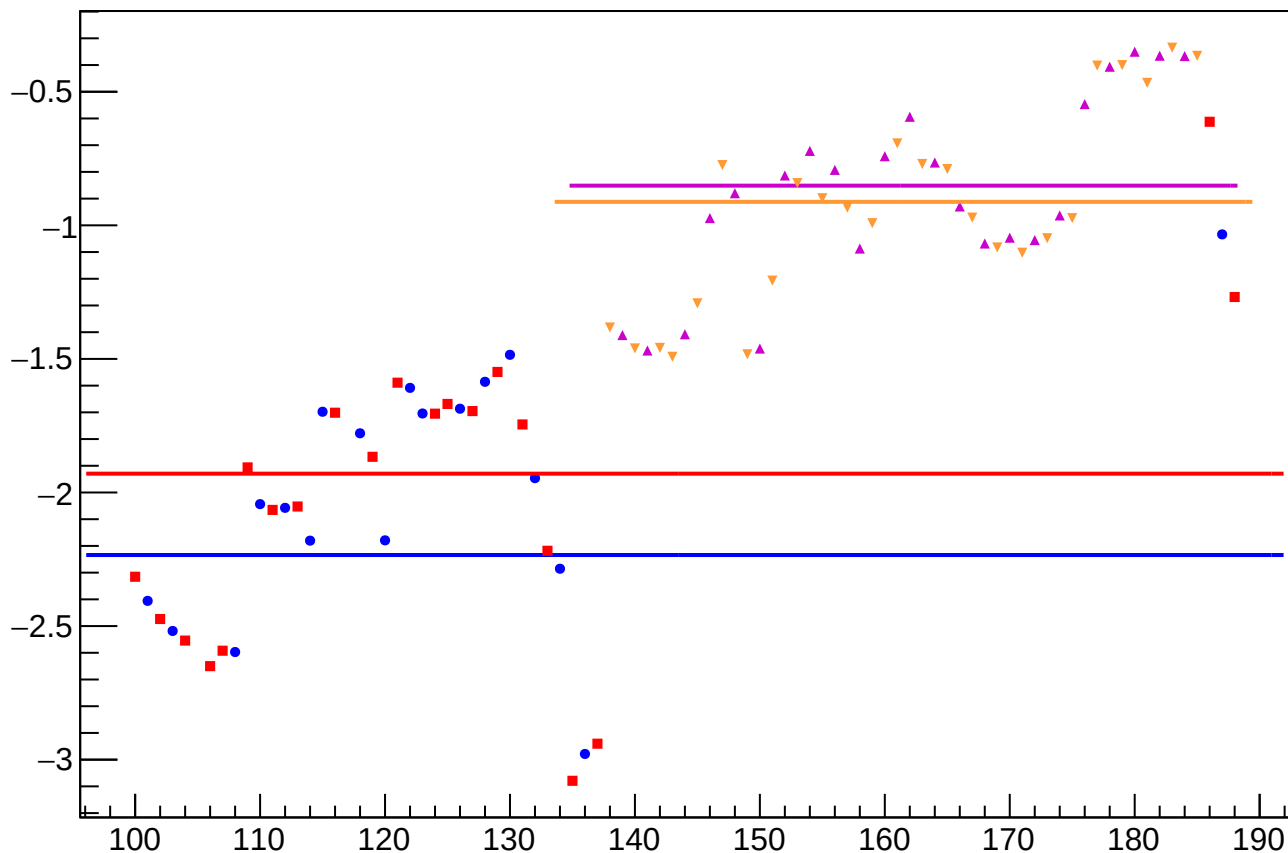
Right: 0.009+/-0.000 χ^2/NDF : 471812.0/38

In: 0.008+/-0.000 χ^2/NDF : 678963.6/40

Out: 0.008+/-0.000 χ^2/NDF : 854552.8/45

All: 0.008+/-0.000 χ^2/NDF : 1534213.1/86

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.234 $\pm$ 0.000

χ^2 /NDF: 21308570046.7/17

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: -2.049 $\pm$ 0.000

χ^2 /NDF: 88516272795.9/38

Right Out: -1.930 $\pm$ 0.000

χ^2 /NDF: 62090613302.9/20

In: -1.090 $\pm$ 0.000

χ^2 /NDF: 211235998625.0/40

Out: -1.157 $\pm$ 0.000

χ^2 /NDF: 221941285051.2/45

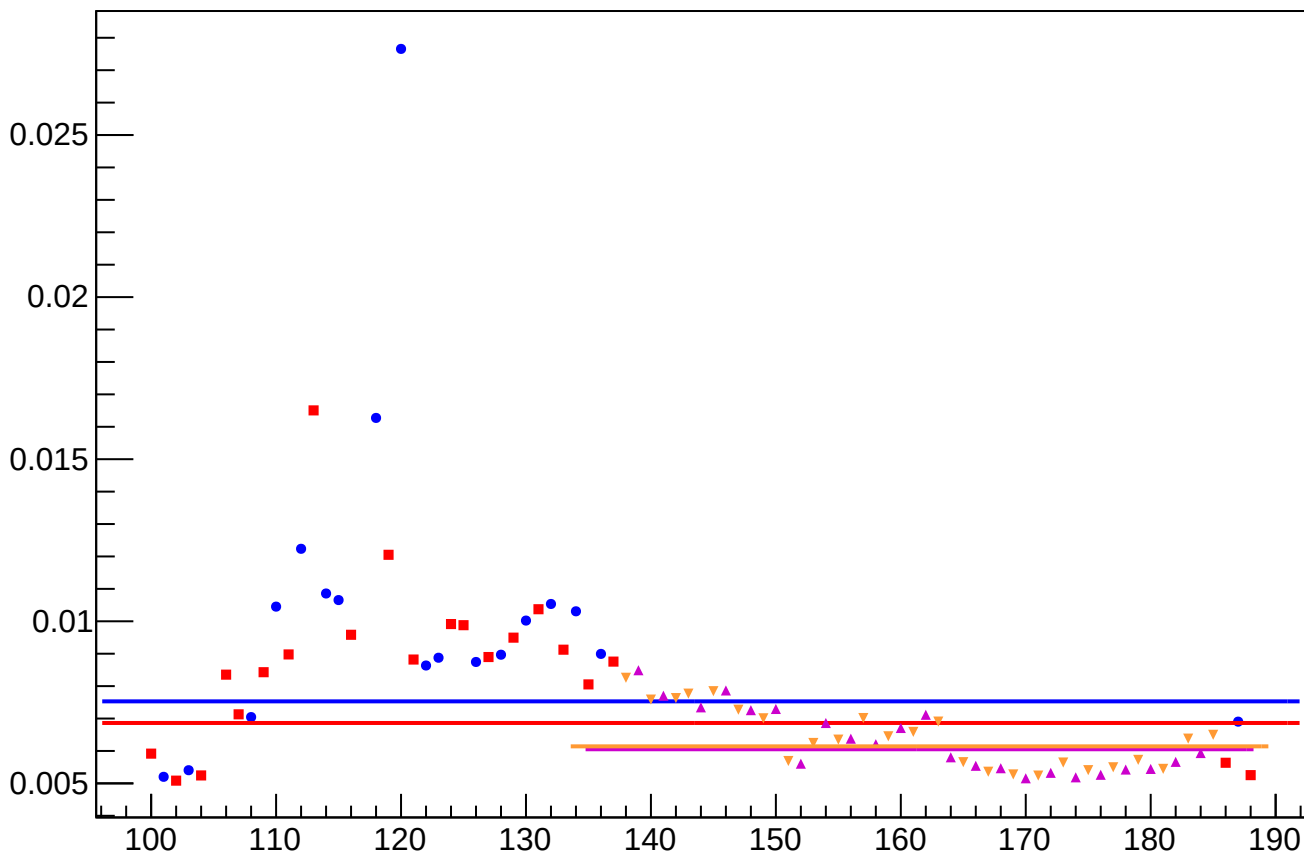
Left In: -0.851 $\pm$ 0.000

χ^2 /NDF: 46438446008.2/22

All: -1.125 $\pm$ 0.000

χ^2 /NDF: 434407973538.4

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1217296.6/17

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1196230.7/20

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

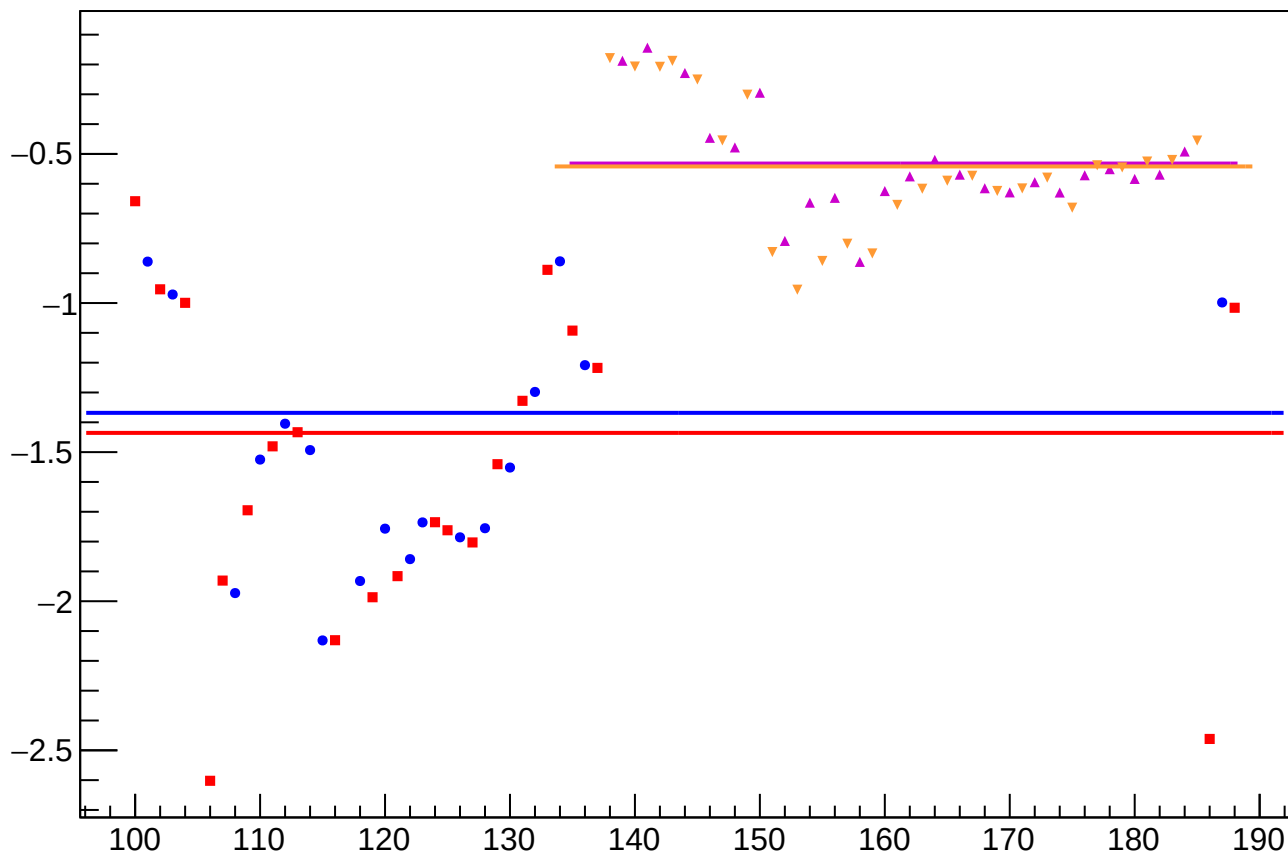
Right: 0.007+/-0.000 χ^2/NDF : 2462615.6/38

In: 0.006+/-0.000 χ^2/NDF : 2242643.8/40

Out: 0.006+/-0.000 χ^2/NDF : 1945328.8/45

All: 0.006+/-0.000 χ^2/NDF : 4188007.5/86

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.368 $\pm$ 0.000 χ^2/NDF : 20480925641.8/17

Left Out: -0.542 $\pm$ 0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.435 $\pm$ 0.000 χ^2/NDF : 65364260610.8/20

Left In: -0.532 $\pm$ 0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2/NDF : 78028833870.1/47

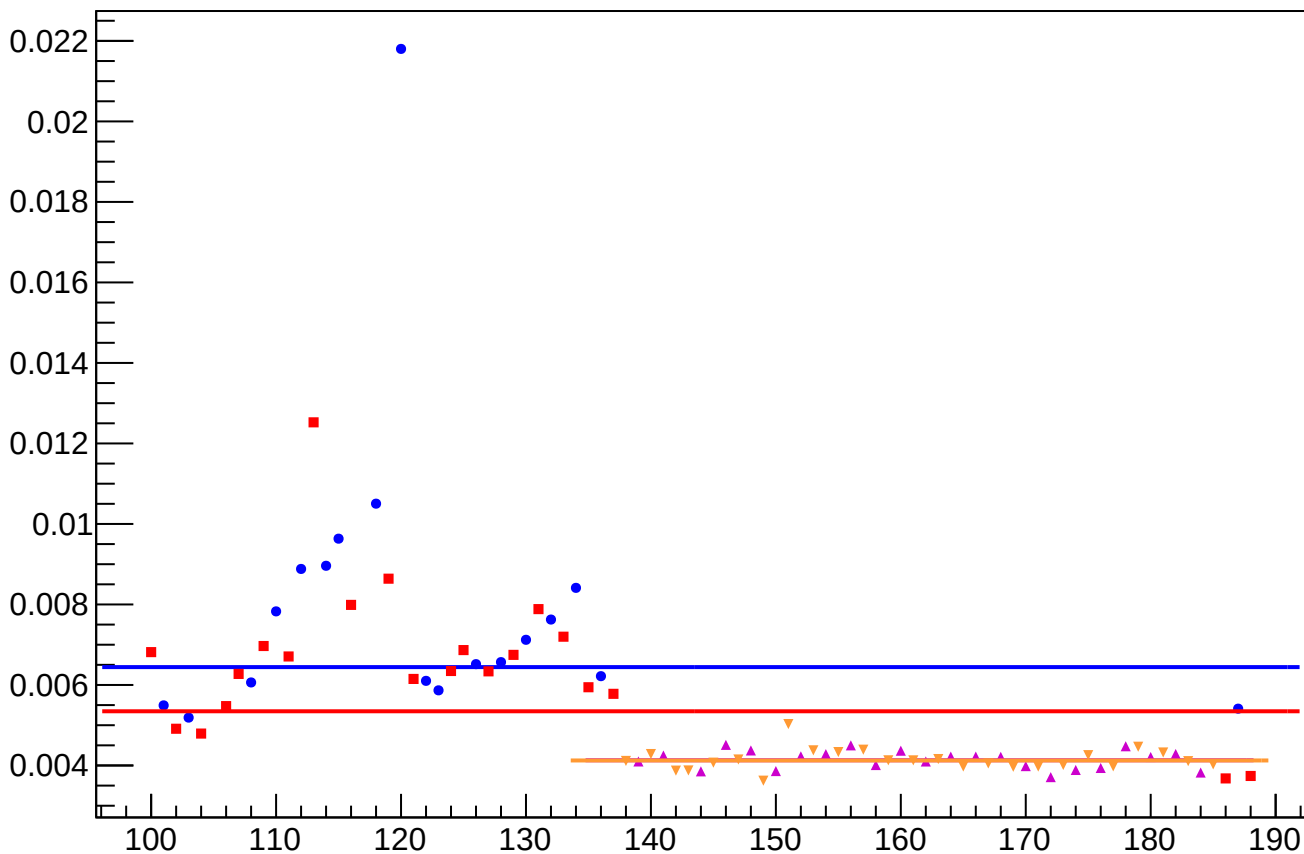
Right: -1.411 $\pm$ 0.000 χ^2/NDF : 86228209721.5/38

In: -0.636 $\pm$ 0.000 χ^2/NDF : 132776704889.2/40

Out: -0.712 $\pm$ 0.000 χ^2/NDF : 263240489485.1/45

All: -0.677 $\pm$ 0.000 χ^2/NDF : 399266843009.3

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 578944.0/17

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1076644.0/20

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

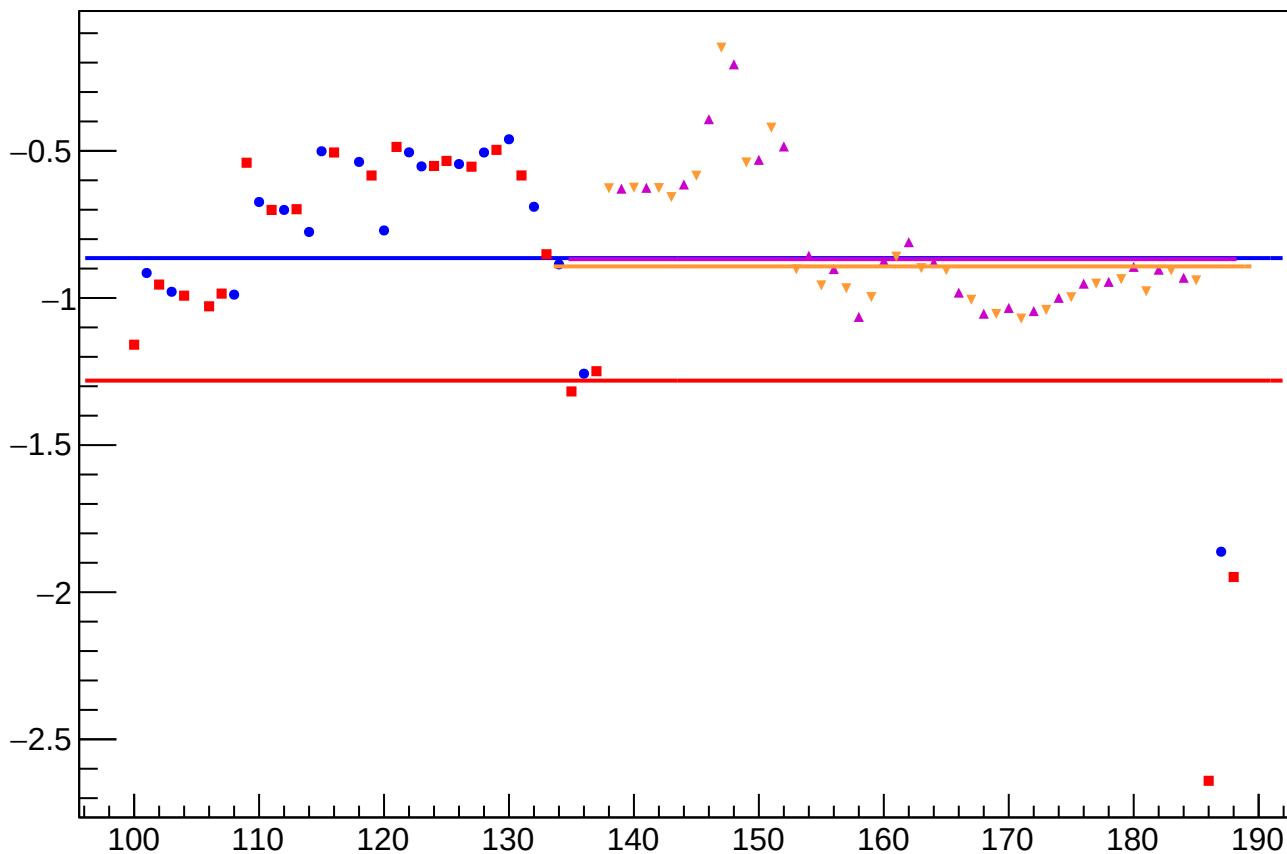
Right: 0.006+/-0.000 χ^2/NDF : 1859833.2/38

In: 0.004+/-0.000 χ^2/NDF :1922148.1/40

Out: 0.004+/-0.000 χ^2/NDF :1753045.7/45

All: 0.004+/-0.000 χ^2/NDF : 3679486.8/86

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.864+/-0.000 χ^2/NDF : 23939465426.5/17

Left Out: -0.893+/-0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.281+/-0.000 χ^2/NDF : 166653003564.4/20

Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000 χ^2/NDF : 84980637247.0/47

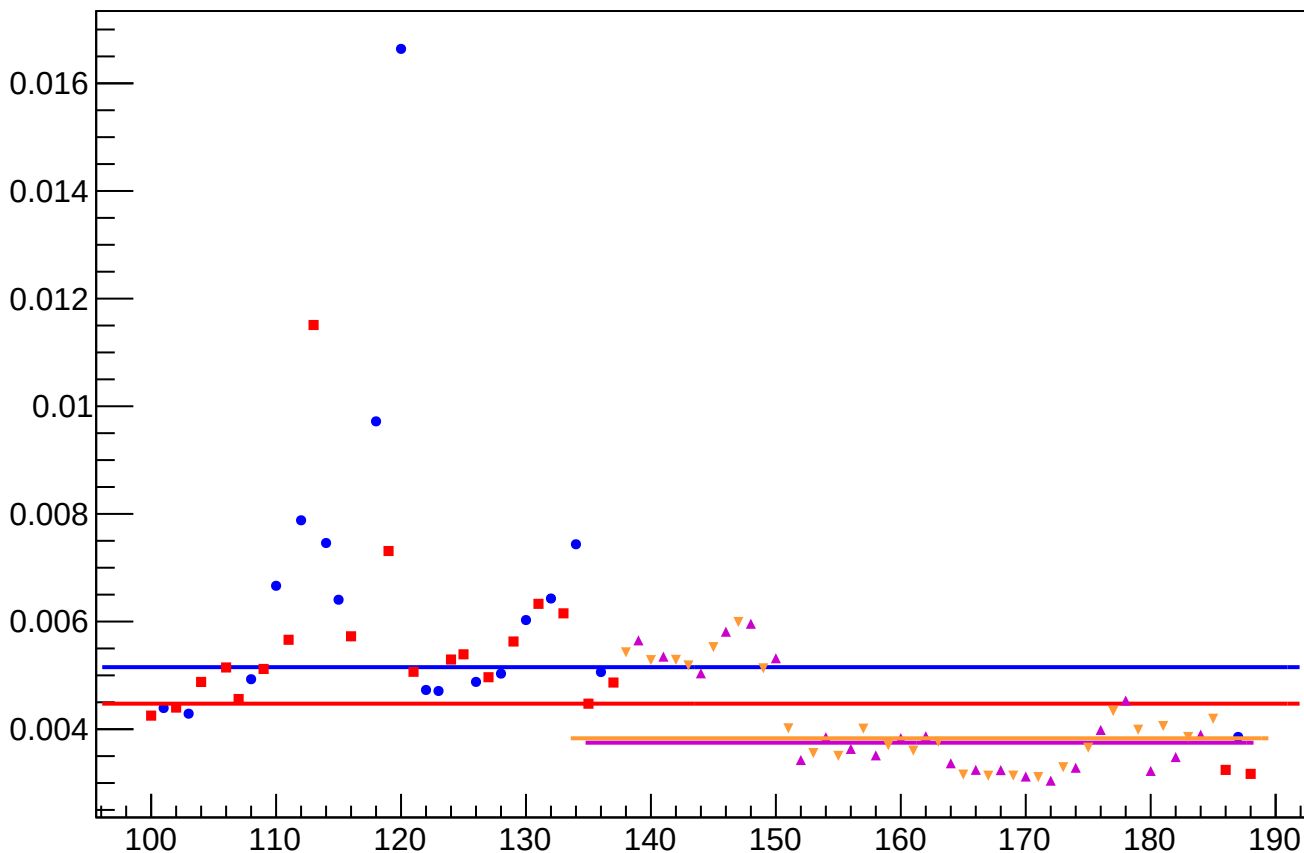
Right: -1.125+/-0.000 χ^2/NDF : 212833668888.2/38

In: -0.867+/-0.000 χ^2/NDF : 67794917320.2/40

Out: -0.983+/-0.000 χ^2/NDF : 246956954878.9/45

All: -0.928+/-0.000 χ^2/NDF : 324051601413.2

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 696013.3/17

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 973067.7/20

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

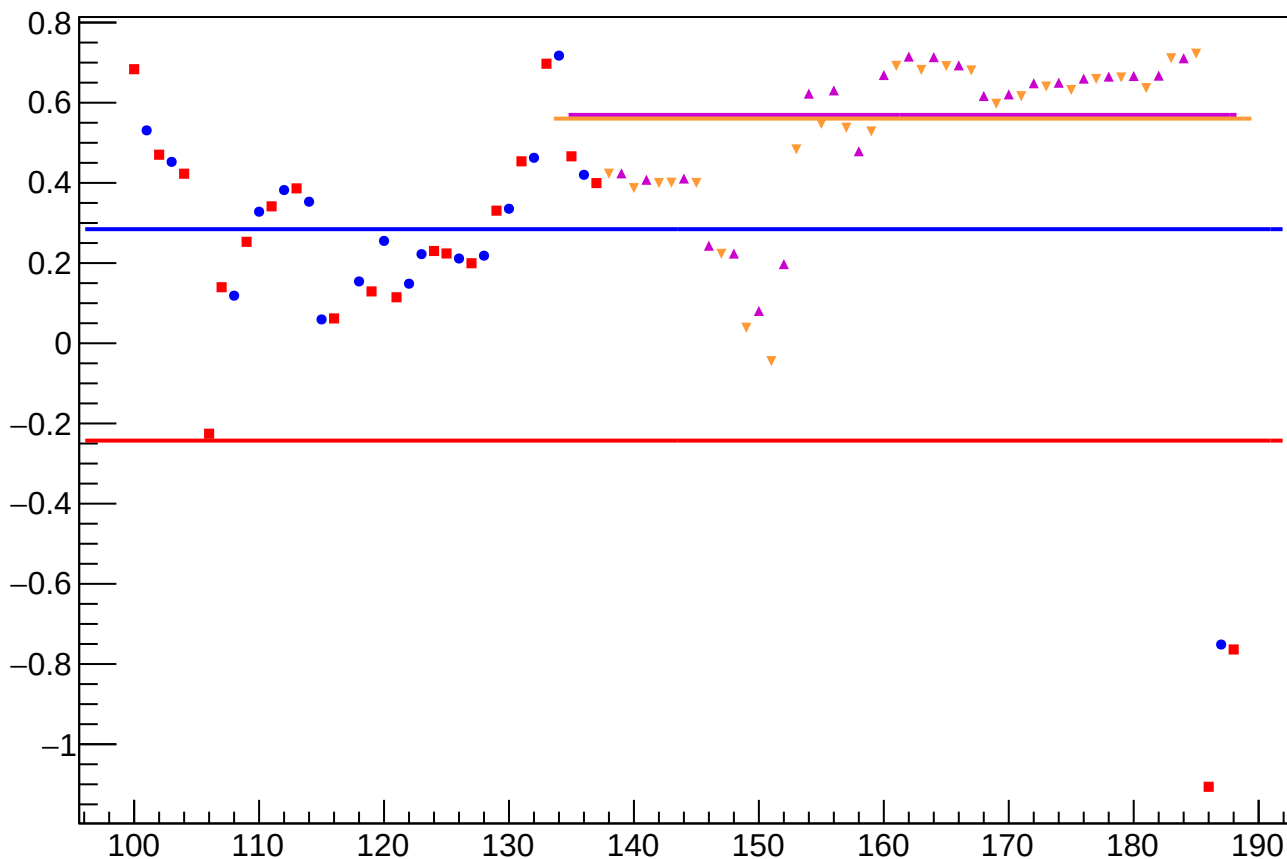
Right: 0.005+/-0.000 χ^2/NDF : 1787085.6/38

In: 0.004+/-0.000 χ^2/NDF :2667549.2/40

Out: 0.004+/-0.000 χ^2/NDF :2370078.9/45

All: 0.004+/-0.000 χ^2/NDF : 5037890.3/86

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.285+/-0.000 χ^2/NDF : 32757932635.6/17

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.243+/-0.000 χ^2/NDF : 280629343775.6/20

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

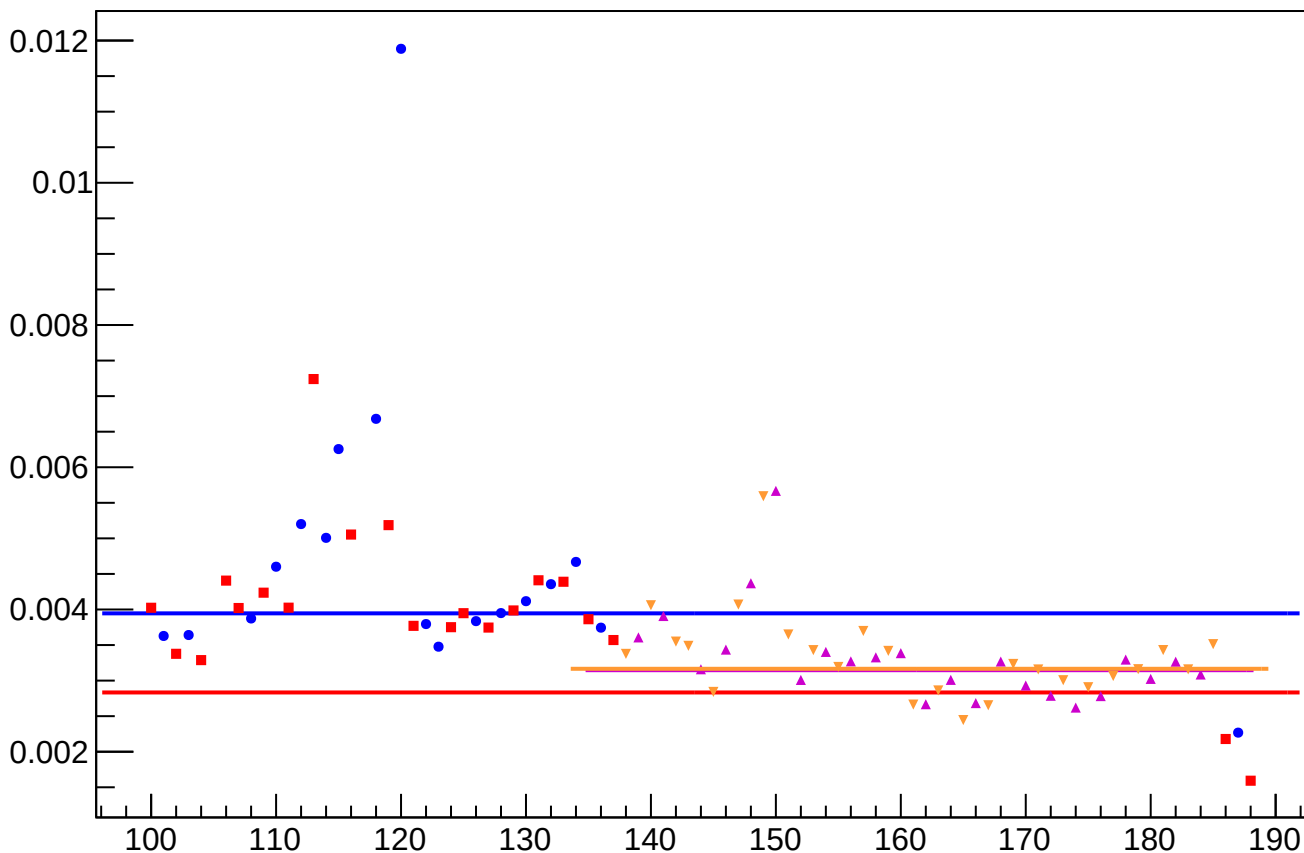
Right: -0.073+/-0.000 χ^2/NDF : 382804268011.5/38

In: 0.515+/-0.000 χ^2/NDF : 99029610549.1/40

Out: 0.300+/-0.000 χ^2/NDF : 664575111642.3/45

All: 0.396+/-0.000 χ^2/NDF : 813145415051.8

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 586735.0/17

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2247713.8/20

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

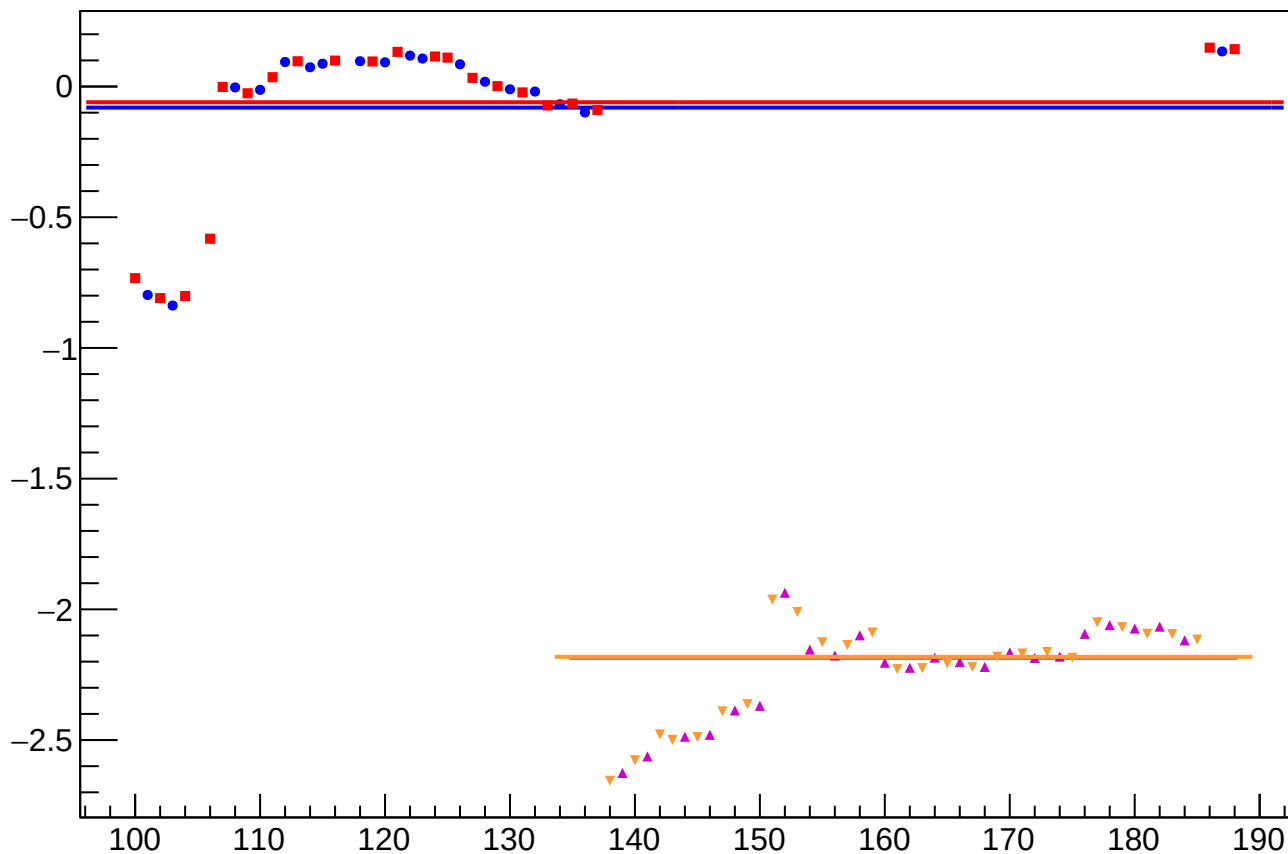
Right: 0.003+/-0.000 χ^2/NDF : 3452198.7/38

In: 0.003+/-0.000 χ^2/NDF : 1683214.6/40

Out: 0.003+/-0.000 χ^2/NDF : 3108947.4/45

All: 0.003+/-0.000 χ^2/NDF : 4916053.2/86

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.081 ± 0.000 $\chi^2/\text{NDF}: 5059249630.2/17$

Left Out: -2.182 ± 0.000 $\chi^2/\text{NDF}: 4008829567.0/24$

Right Out: -0.060 ± 0.000 $\chi^2/\text{NDF}: 6217870150.7/20$

Left In: -2.185 ± 0.000 $\chi^2/\text{NDF}: 3372742534.3/22$

Left: -2.183 ± 0.000 $\chi^2/\text{NDF}: 7382310821.5/47$

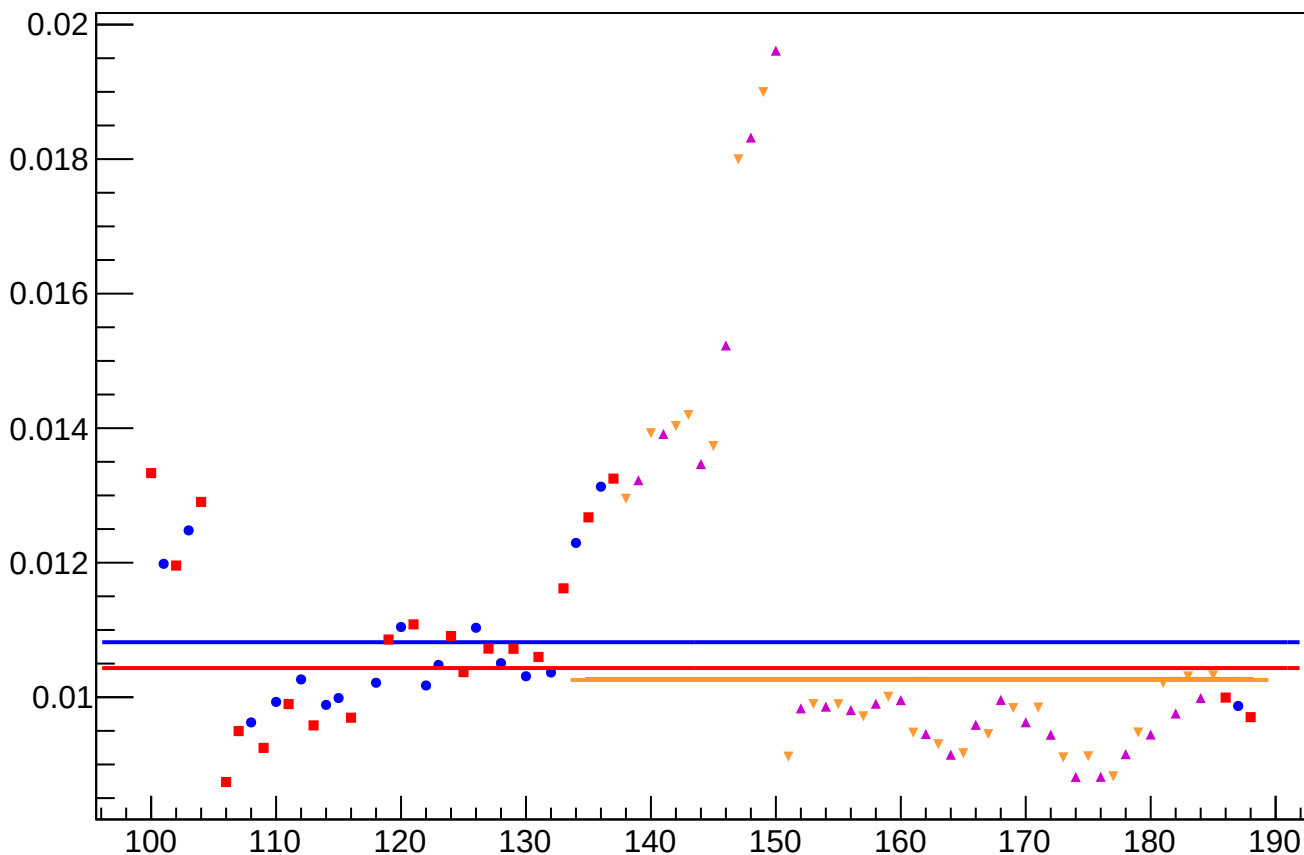
Right: -0.069 ± 0.000 $\chi^2/\text{NDF}: 11290815324.1/38$

In: -1.620 ± 0.000 $\chi^2/\text{NDF}: 195605386398.5/40$

Out: -1.522 ± 0.000 $\chi^2/\text{NDF}: 245208561271.1/45$

All: -1.568 ± 0.000 $\chi^2/\text{NDF}: 441912398721.1$

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 127024.5/17

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 192585.6/20

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

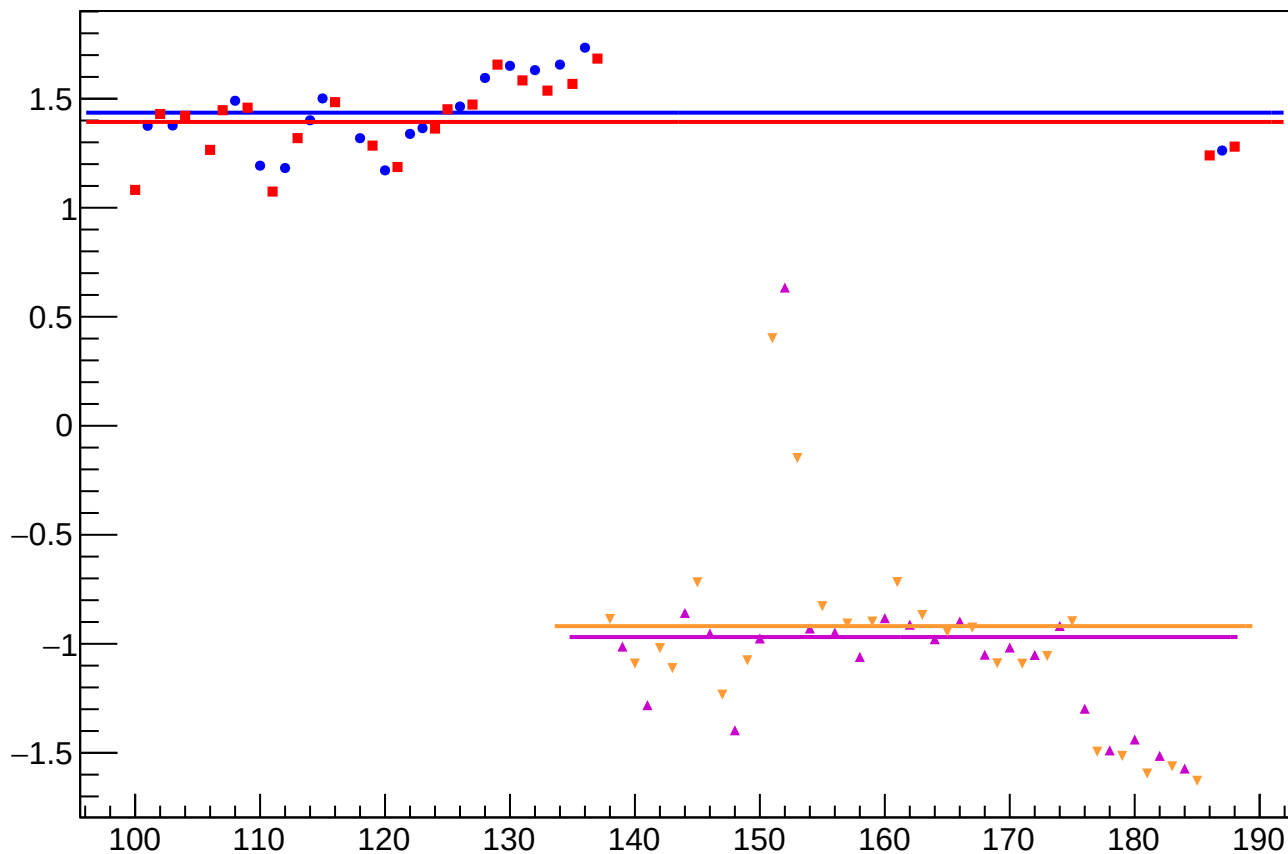
Right: 0.011+/-0.000 χ^2/NDF : 329294.5/38

In: 0.010+/-0.000 χ^2/NDF :1493170.7/40

Out: 0.010+/-0.000 χ^2/NDF :1466487.9/45

All: 0.010+/-0.000 χ^2/NDF : 2962025.6/86

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.436+/-0.000

χ^2/NDF : 3521911595.5/17

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.413+/-0.000

χ^2/NDF : 6760680817.6/38

Right Out: 1.394+/-0.000

χ^2/NDF : 3115183147.2/20

In: -0.147+/-0.000

χ^2/NDF : 531496499247.7/40

Out: -0.047+/-0.000

χ^2/NDF : 566763678298.6/45

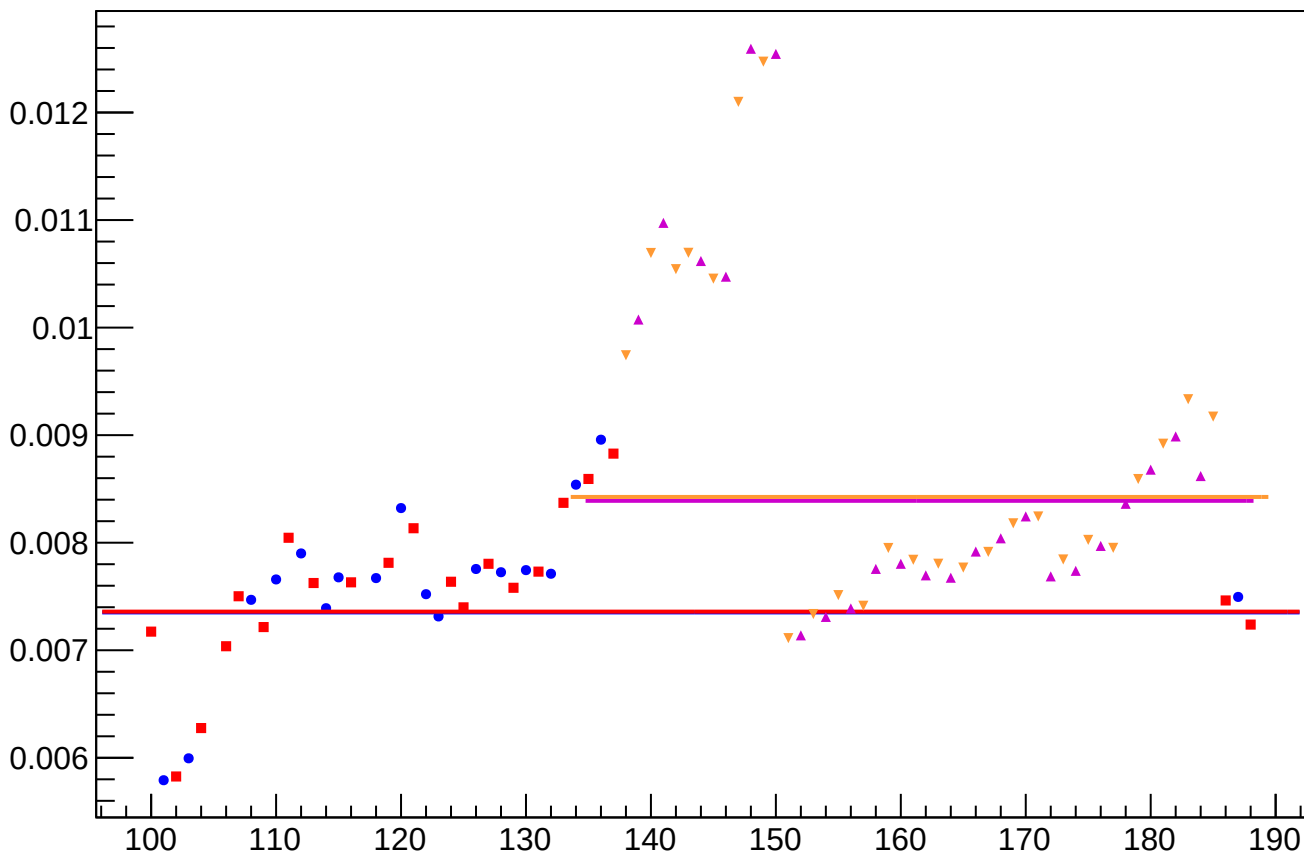
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: -0.095+/-0.000

χ^2/NDF : 1100175183654

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228780.4/17

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 173082.8/20

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

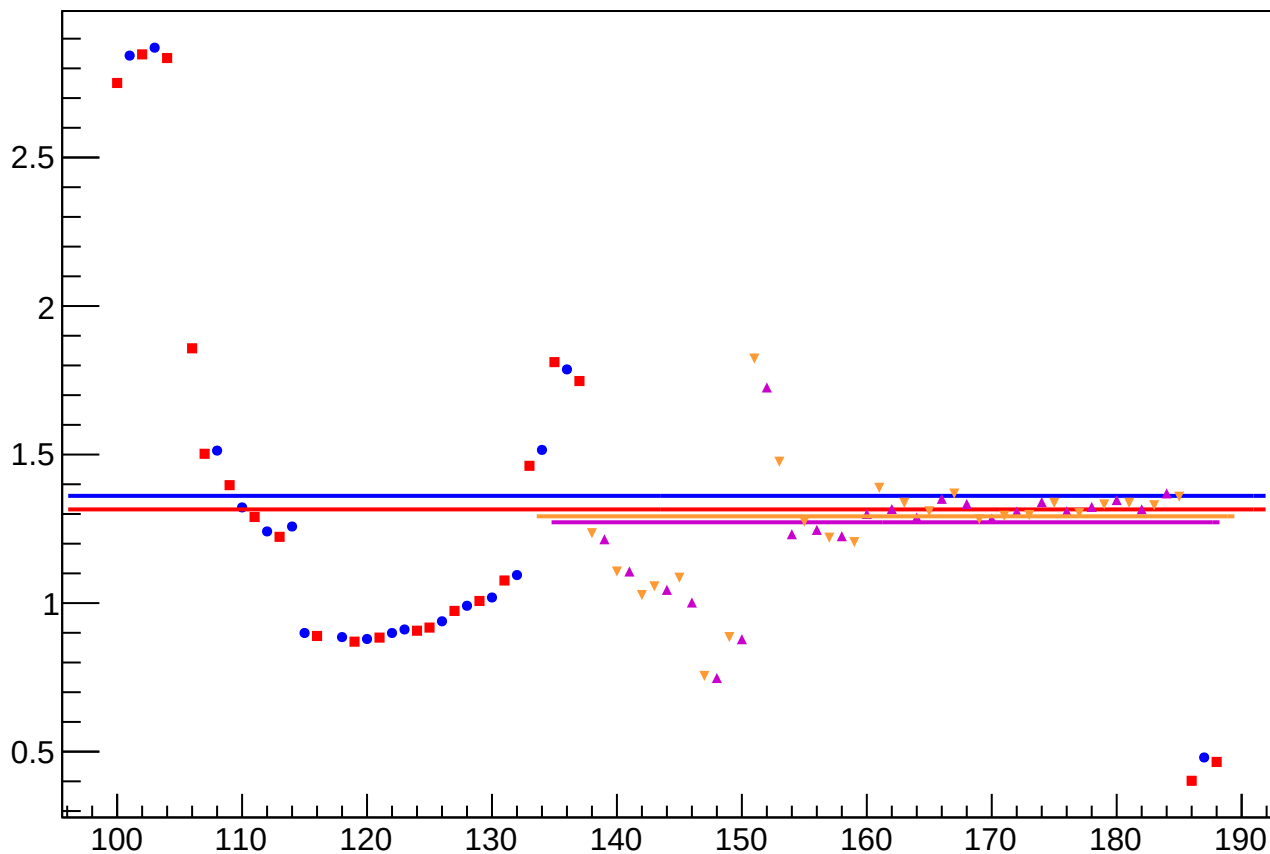
Right: 0.007+/-0.000 χ^2/NDF : 401870.7/38

In: 0.008+/-0.000 χ^2/NDF : 1244819.9/40

Out: 0.008+/-0.000 χ^2/NDF : 1181495.3/45

All: 0.008+/-0.000 χ^2/NDF : 2426364.5/86

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.361 $\pm$ 0.000 χ^2 /NDF: 55375353045.6/17

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.315 $\pm$ 0.000 χ^2 /NDF: 60600292516.5/20

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

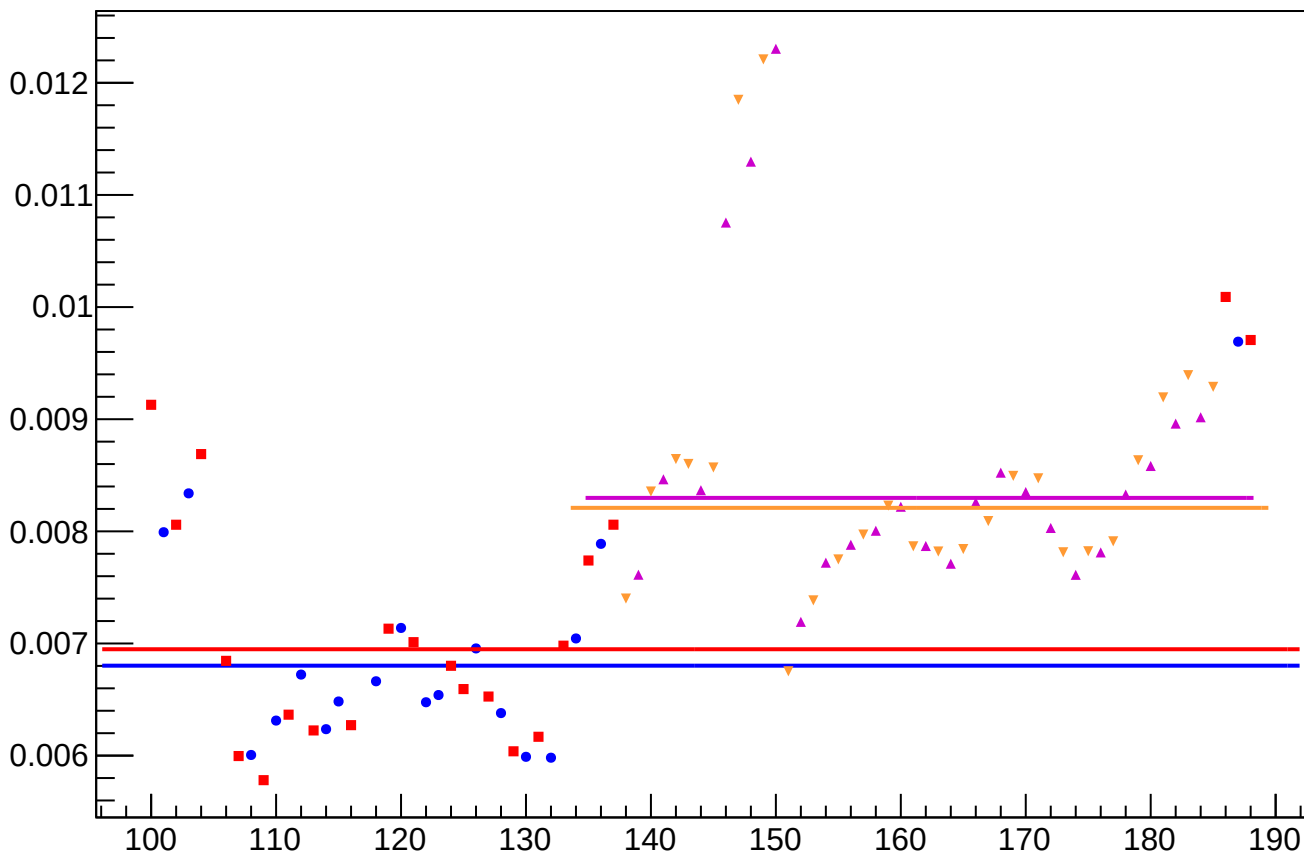
Right: 1.337 $\pm$ 0.000 χ^2 /NDF: 116138003491.5/38

In: 1.305 $\pm$ 0.000 χ^2 /NDF: 63670356351.6/40

Out: 1.301 $\pm$ 0.000 χ^2 /NDF: 69961170558.8/45

All: 1.303 $\pm$ 0.000 χ^2 /NDF: 133634933520.6

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 185792.0/17

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 478864.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 424664.1/20

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 462022.1/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 942877.3/47

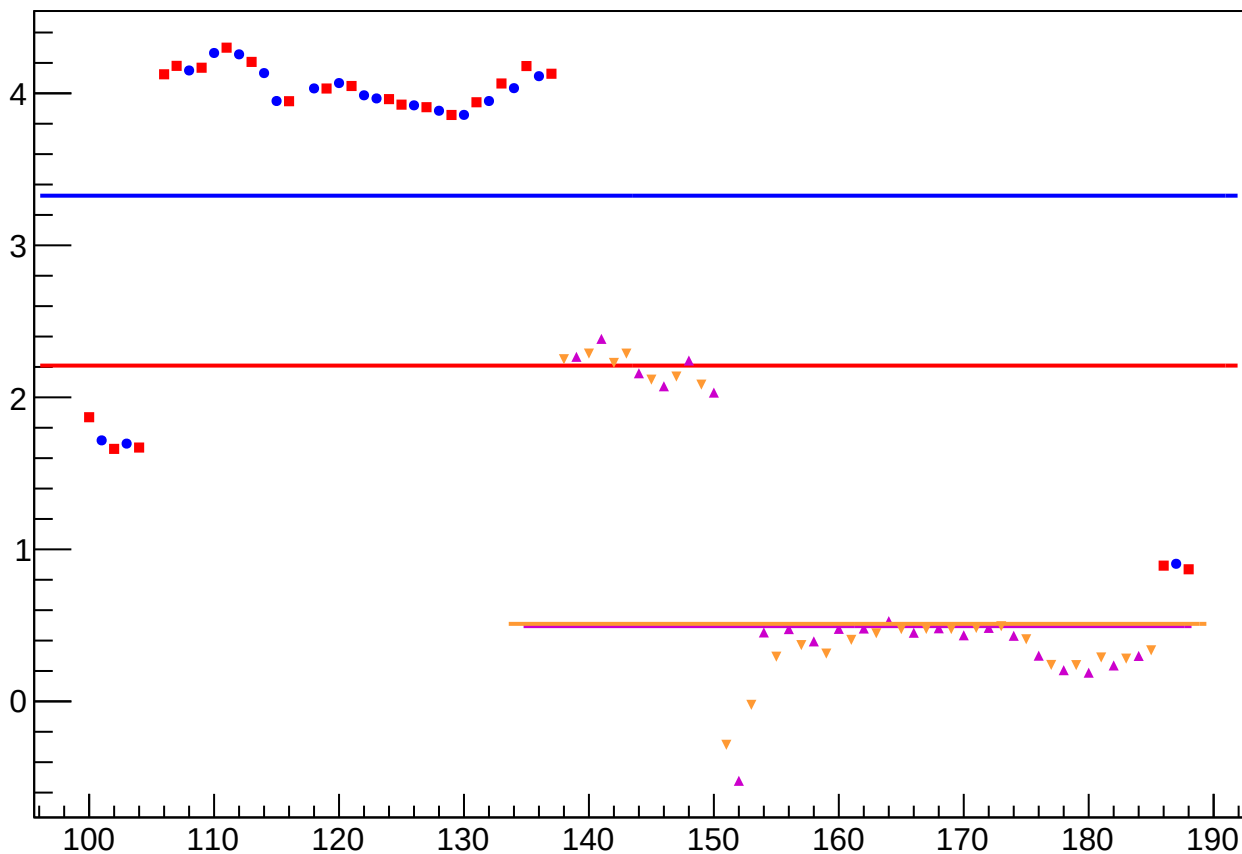
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 613808.5/38

In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1055495.9/40

Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 1229884.5/45

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2285572.1/86

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.327 $\pm$ 0.000 χ^2/NDF : 344062356047.3/17

Left Out: 0.510 $\pm$ 0.000 χ^2/NDF : 274818814912.4/24

Right Out: 2.209 $\pm$ 0.000 χ^2/NDF : 1116769127687.9/20

Left In: 0.495 $\pm$ 0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503 $\pm$ 0.000 χ^2/NDF : 543767842878.3/47

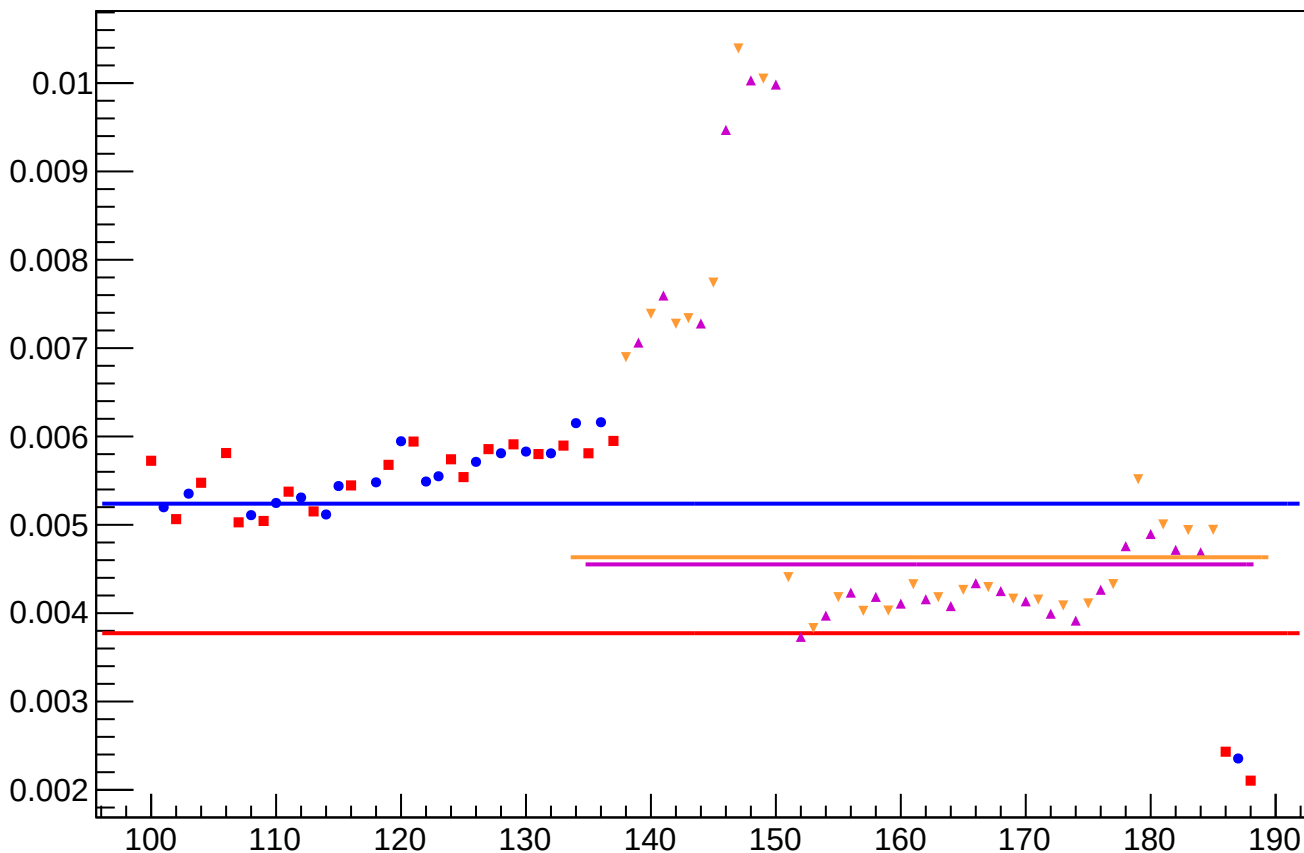
Right: 2.582 $\pm$ 0.000 χ^2/NDF : 1659961284596.0/38

In: 1.175 $\pm$ 0.000 χ^2/NDF : 2071499678807.9/40

Out: 1.157 $\pm$ 0.000 χ^2/NDF : 2244676723618.0/45

All: 1.165 $\pm$ 0.000 χ^2/NDF : 4316360182818.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 497416.3/17

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2114007.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 2701426.1/20

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4356682.7/47

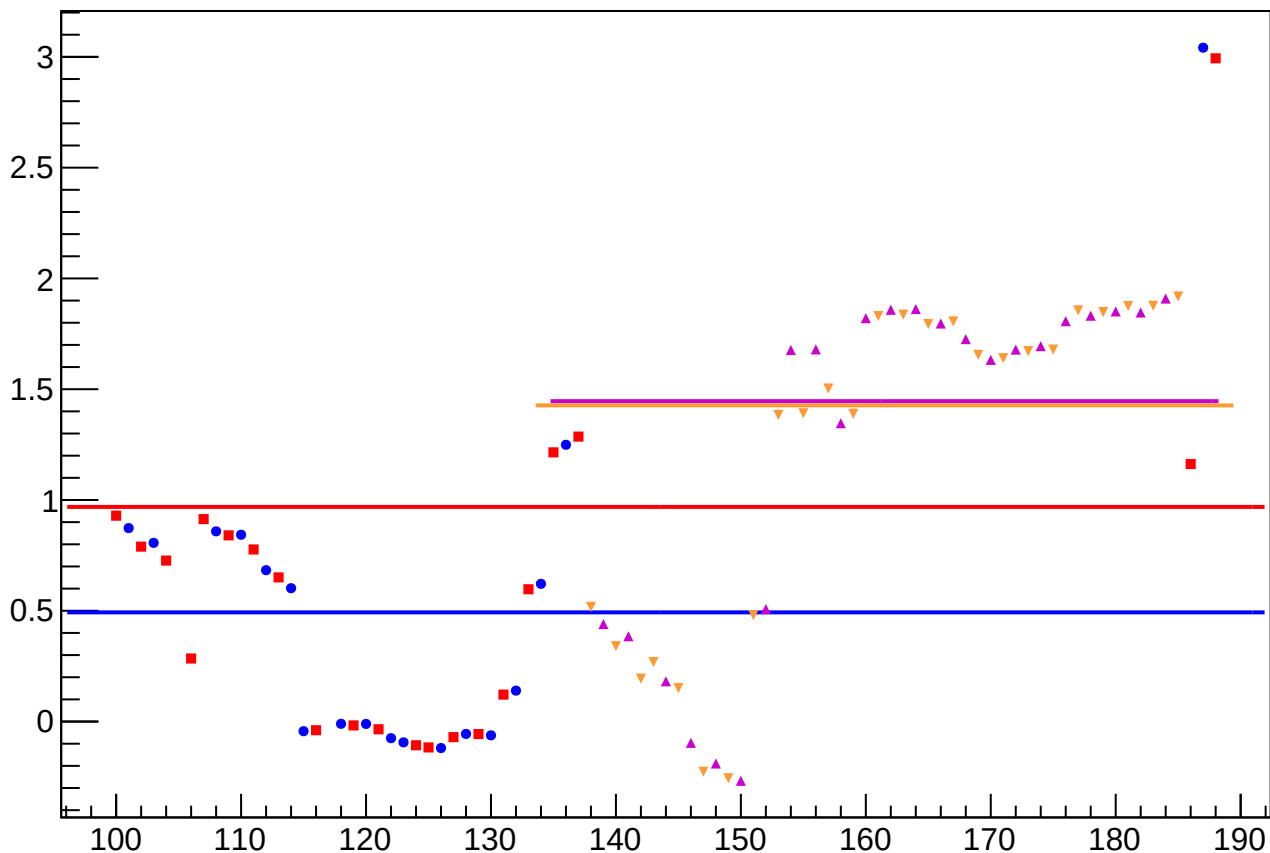
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 3884205.3/38

In: 0.005 $\pm$ 0.000 χ^2 /NDF:2906940.5/40

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:5252354.4/45

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 8347262.3/86

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.493+/-0.000 χ^2/NDF : 16320283512.6/17

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 0.969+/-0.000 χ^2/NDF : 51642990387.6/20

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

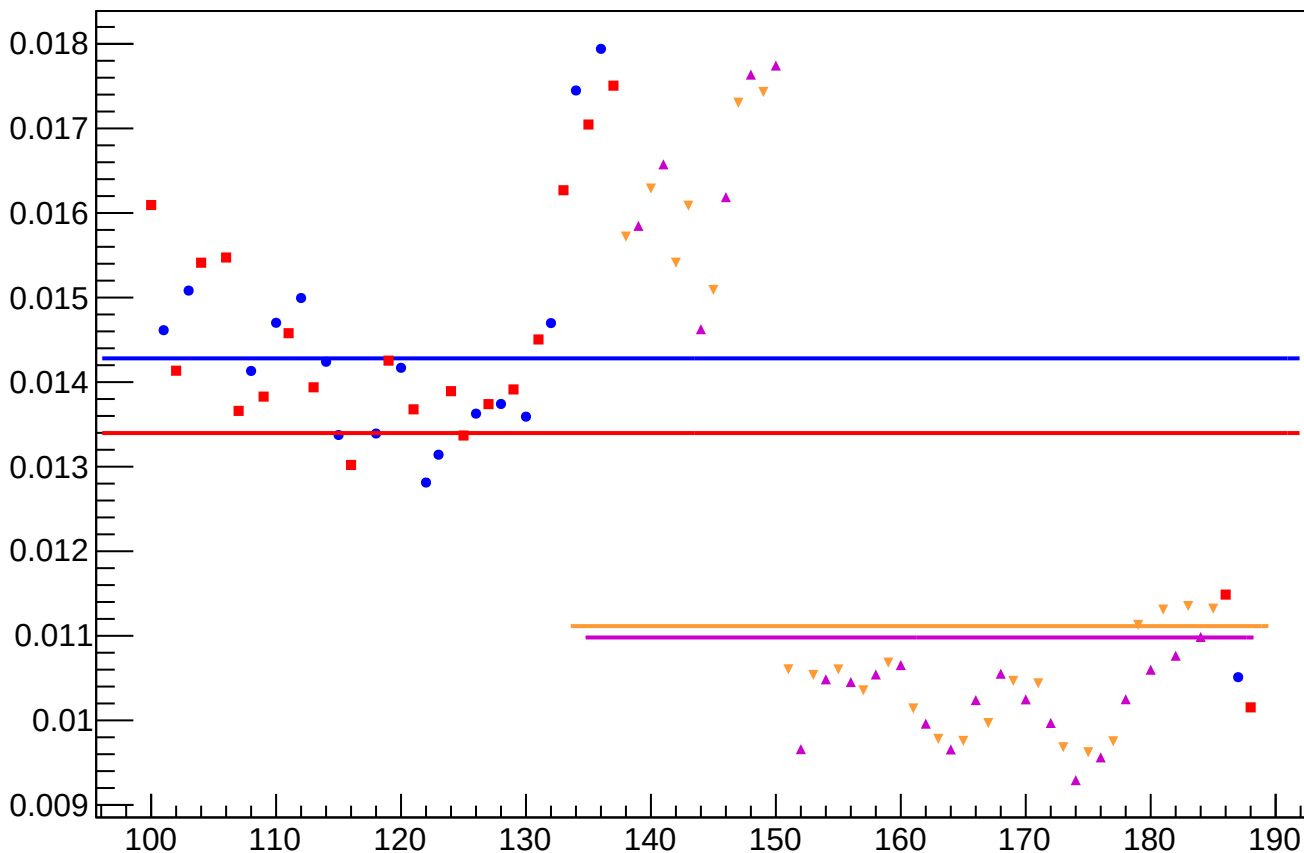
Right: 0.767+/-0.000 χ^2/NDF : 72269833706.9/38

In: 1.261+/-0.000 χ^2/NDF : 94257919139.3/40

Out: 1.317+/-0.000 χ^2/NDF : 108790910779.3/45

All: 1.291+/-0.000 χ^2/NDF : 203325642969.3

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 149771.9/17

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 342011.2/20

Left In: 0.011 $\pm$ 0.000 χ^2/NDF :1264827.0/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 2494847.1/47

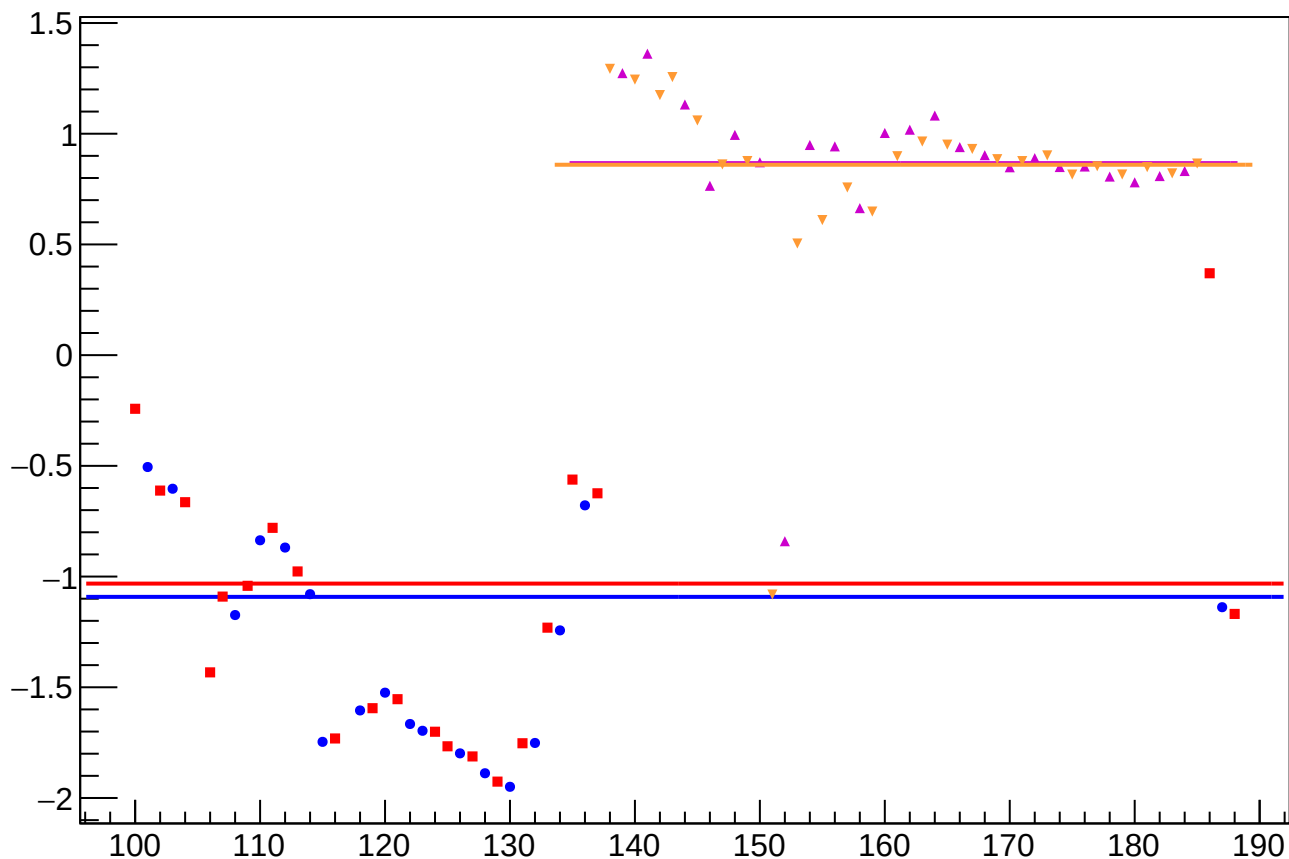
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 521434.0/38

In: 0.012 $\pm$ 0.000 χ^2/NDF :1994399.5/40

Out: 0.012 $\pm$ 0.000 χ^2/NDF :1924820.2/45

All: 0.012 $\pm$ 0.000 χ^2/NDF : 3919538.4/86

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.092 ± 0.000 χ^2/NDF : 55550499732.6/17

Left Out: 0.860 ± 0.000 χ^2/NDF : 126335891175.4/24

Right Out: -1.032 ± 0.000 χ^2/NDF : 62356704356.3/20

Left In: 0.867 ± 0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863 ± 0.000 χ^2/NDF : 273407894621.9/47

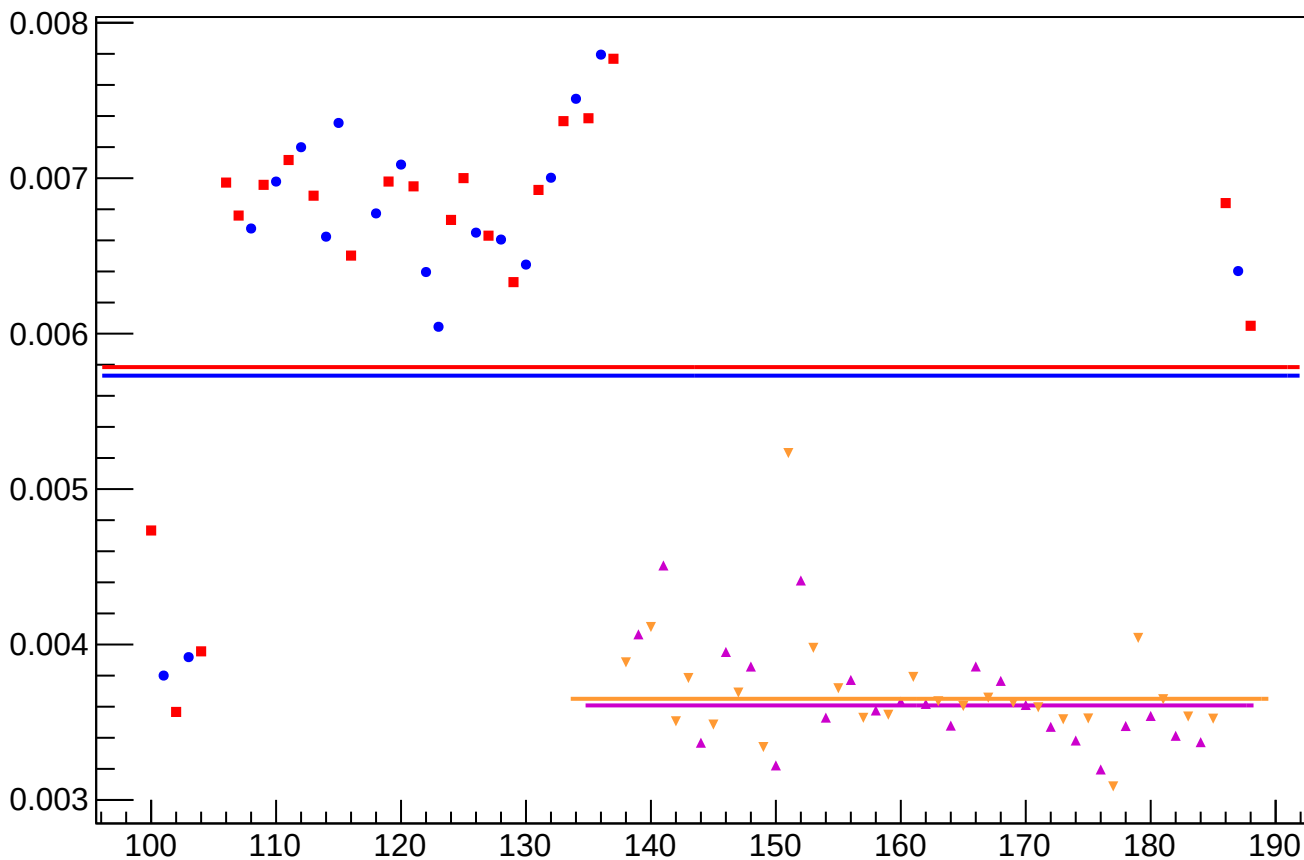
Right: -1.059 ± 0.000 χ^2/NDF : 118268232465.6/38

In: 0.607 ± 0.000 χ^2/NDF : 816894212070.9/40

Out: 0.577 ± 0.000 χ^2/NDF : 858918503452.9/45

All: 0.592 ± 0.000 χ^2/NDF : 1676464117173.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 841283.0/17

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 943842.2/20

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

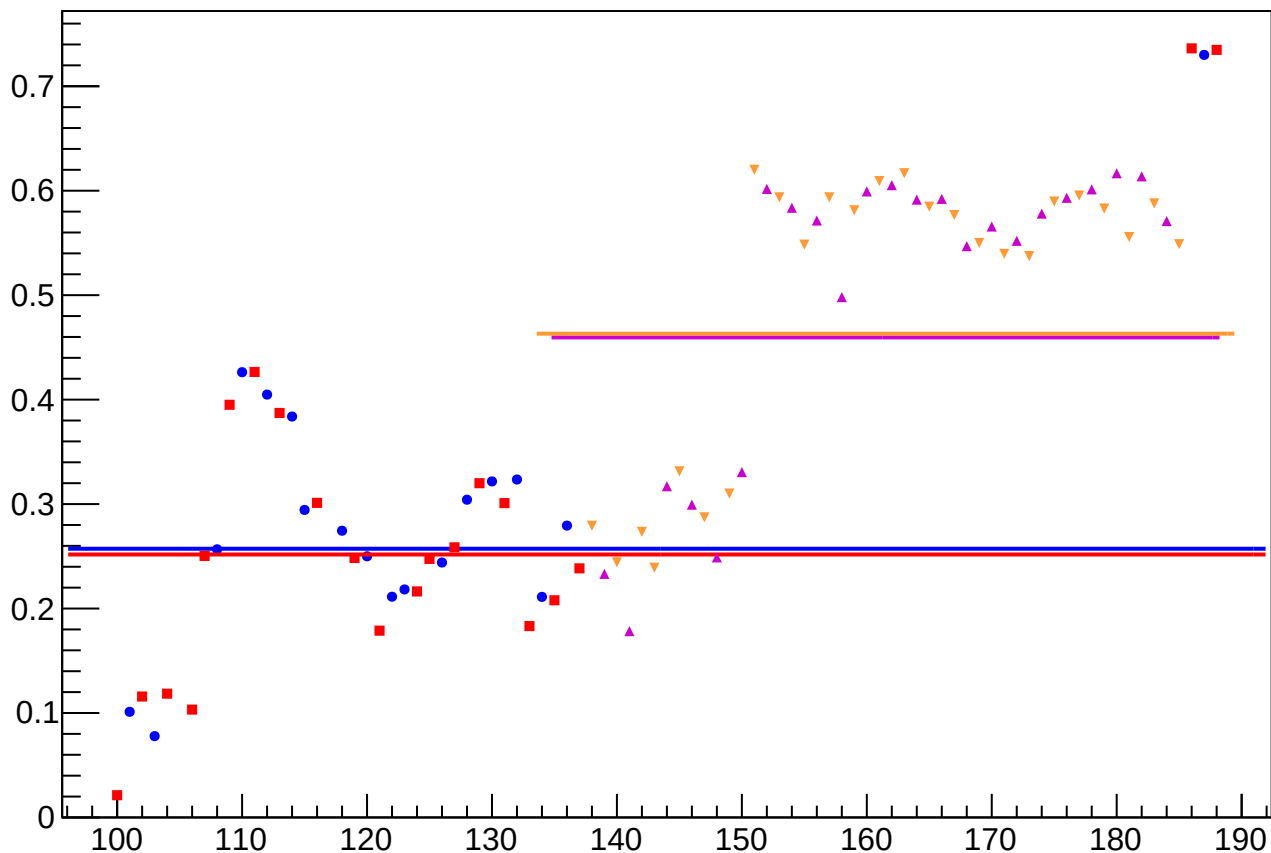
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1785732.8/38

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2510314.1/40

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2886941.9/45

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 5406454.4/86

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.257+/-0.000

χ^2/NDF : 23307781837.1/17

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.254+/-0.000 χ^2/NDF : 68710372824.3/38

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.385+/-0.000 χ^2/NDF : 191125285031.0/40

Right Out: 0.252+/-0.000 χ^2/NDF : 45363085120.6/20

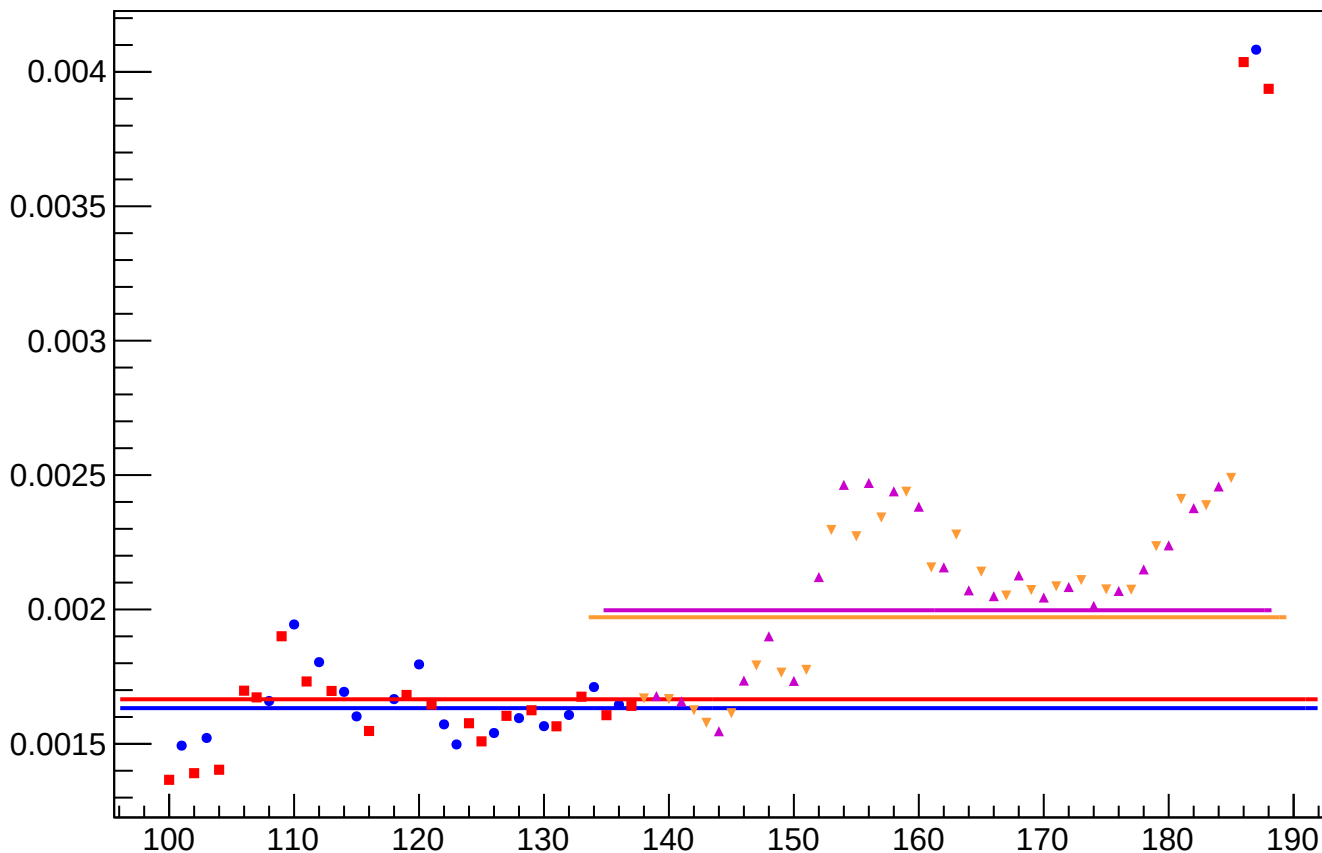
Out: 0.383+/-0.000 χ^2/NDF : 225565521269.3/45

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.384+/-0.000 χ^2/NDF : 416704571683.3

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 159960.2/17

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 964908.2/20

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

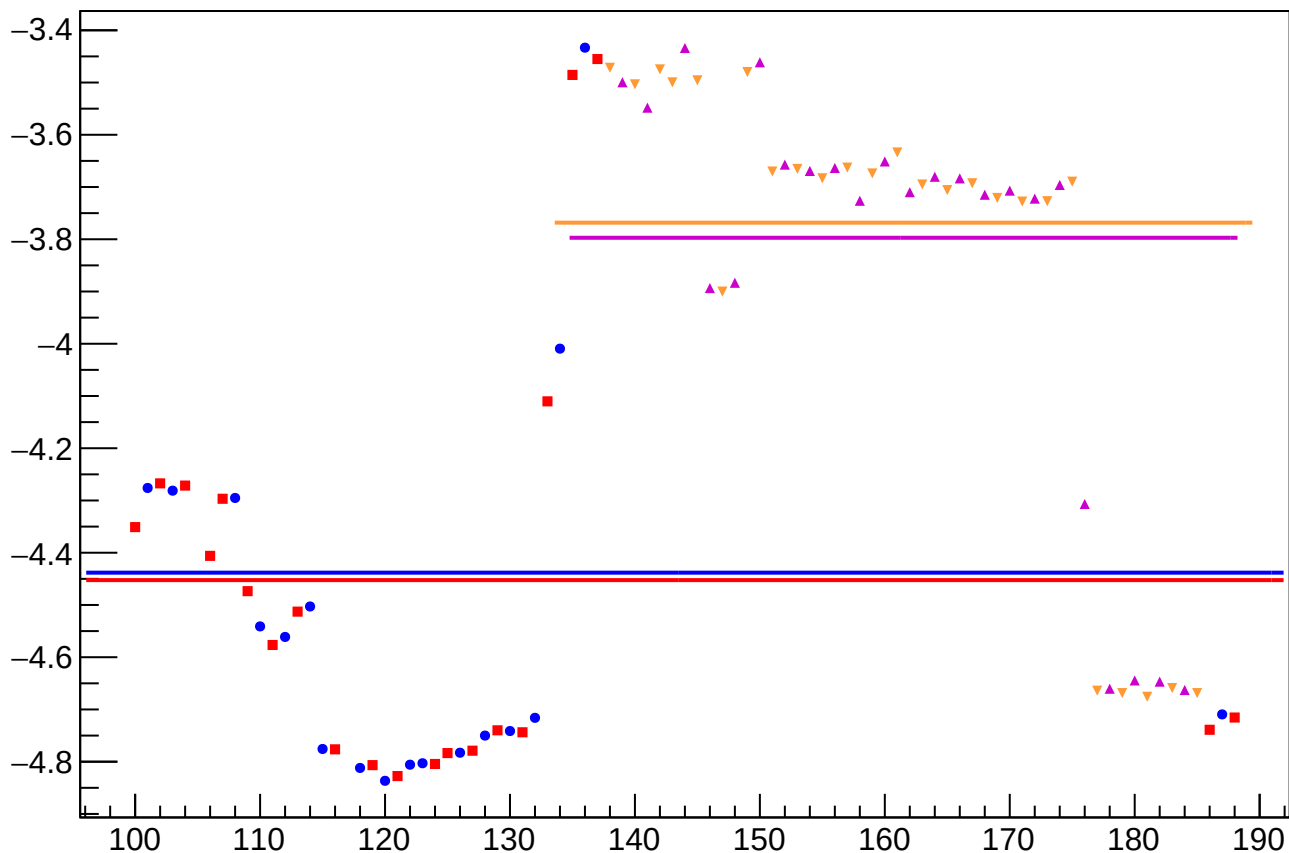
Right: 0.002+/-0.000 χ^2/NDF : 1127705.8/38

In: 0.002+/-0.000 χ^2/NDF : 1236365.2/40

Out: 0.002+/-0.000 χ^2/NDF : 2018993.7/45

All: 0.002+/-0.000 χ^2/NDF : 3255757.5/86

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.438+/-0.000 χ^2/NDF : 393458719044.2/17

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.452+/-0.000 χ^2/NDF : 335020001985.5/20

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

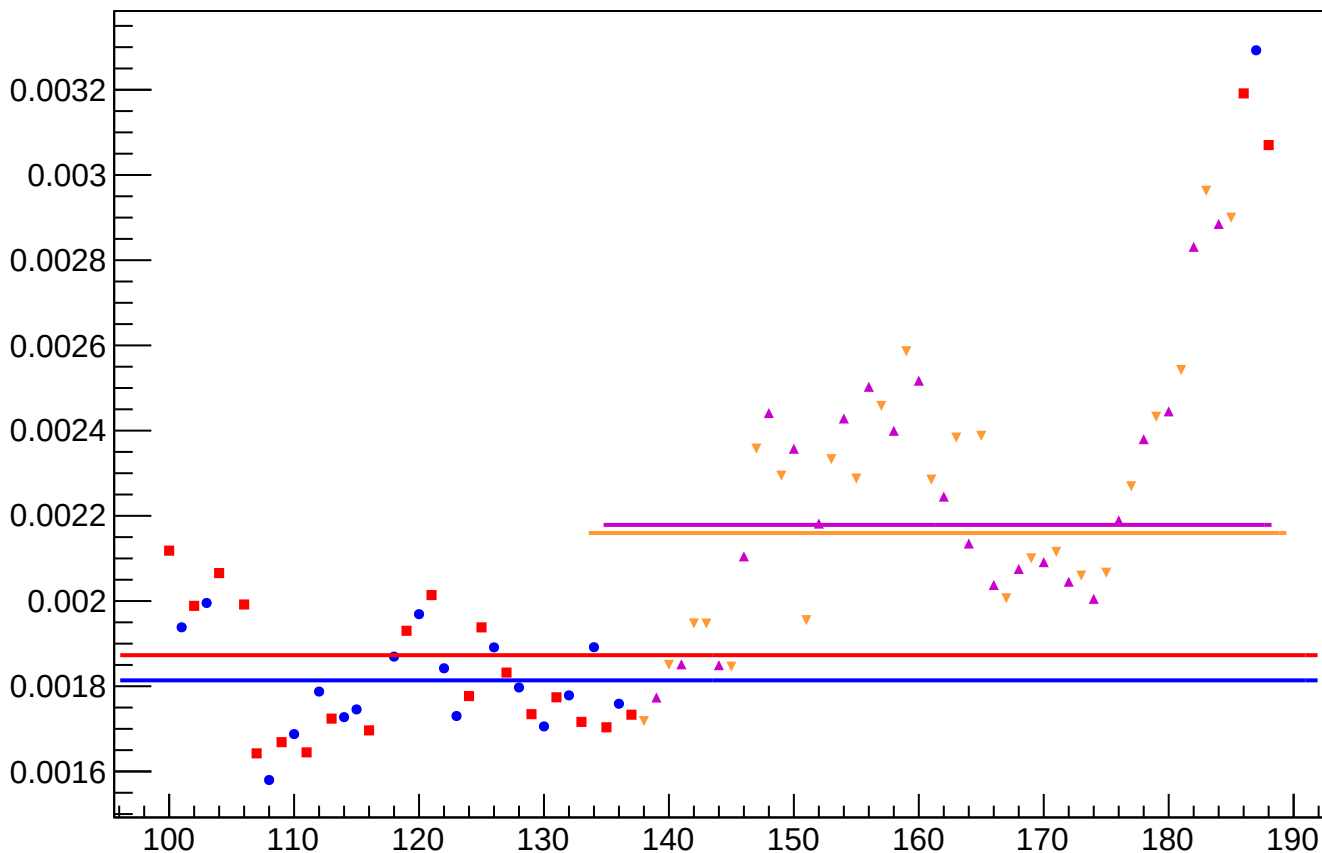
Right: -4.446+/-0.000 χ^2/NDF : 728694765351.0/38

In: -4.029+/-0.000 χ^2/NDF : 1364996598861.3/40

Out: -4.022+/-0.000 χ^2/NDF : 1514616440978.3/45

All: -4.025+/-0.000 χ^2/NDF : 2879727910291

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 106249.3/17

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 501330.1/20

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

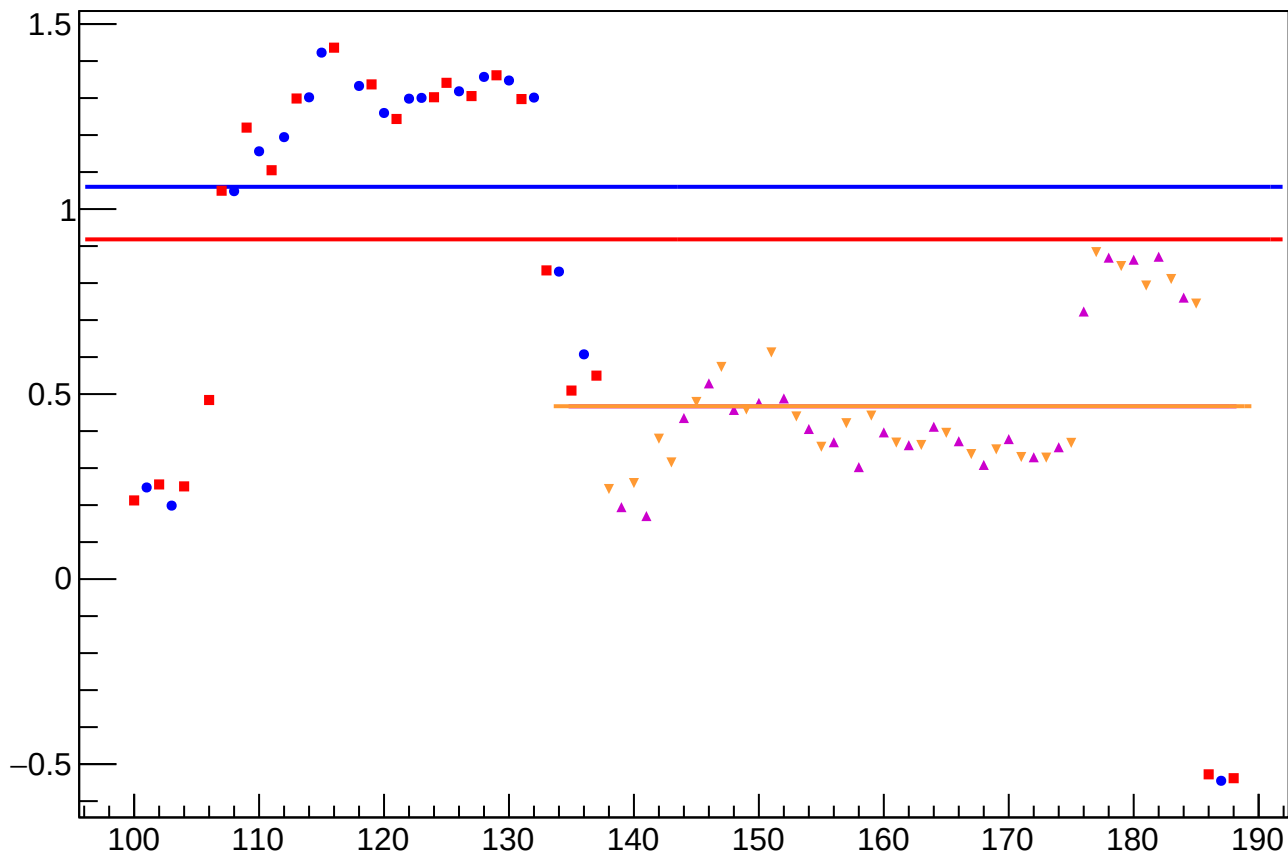
Right: 0.002+/-0.000 χ^2/NDF : 614988.4/38

In: 0.002+/-0.000 χ^2/NDF :910858.4/40

Out: 0.002+/-0.000 χ^2/NDF :1281965.2/45

All: 0.002+/-0.000 χ^2/NDF : 2193046.0/86

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.060 $\pm$ 0.000 χ^2 /NDF: 21158359760.3/17

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.918 $\pm$ 0.000 χ^2 /NDF: 47518481331.8/20

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

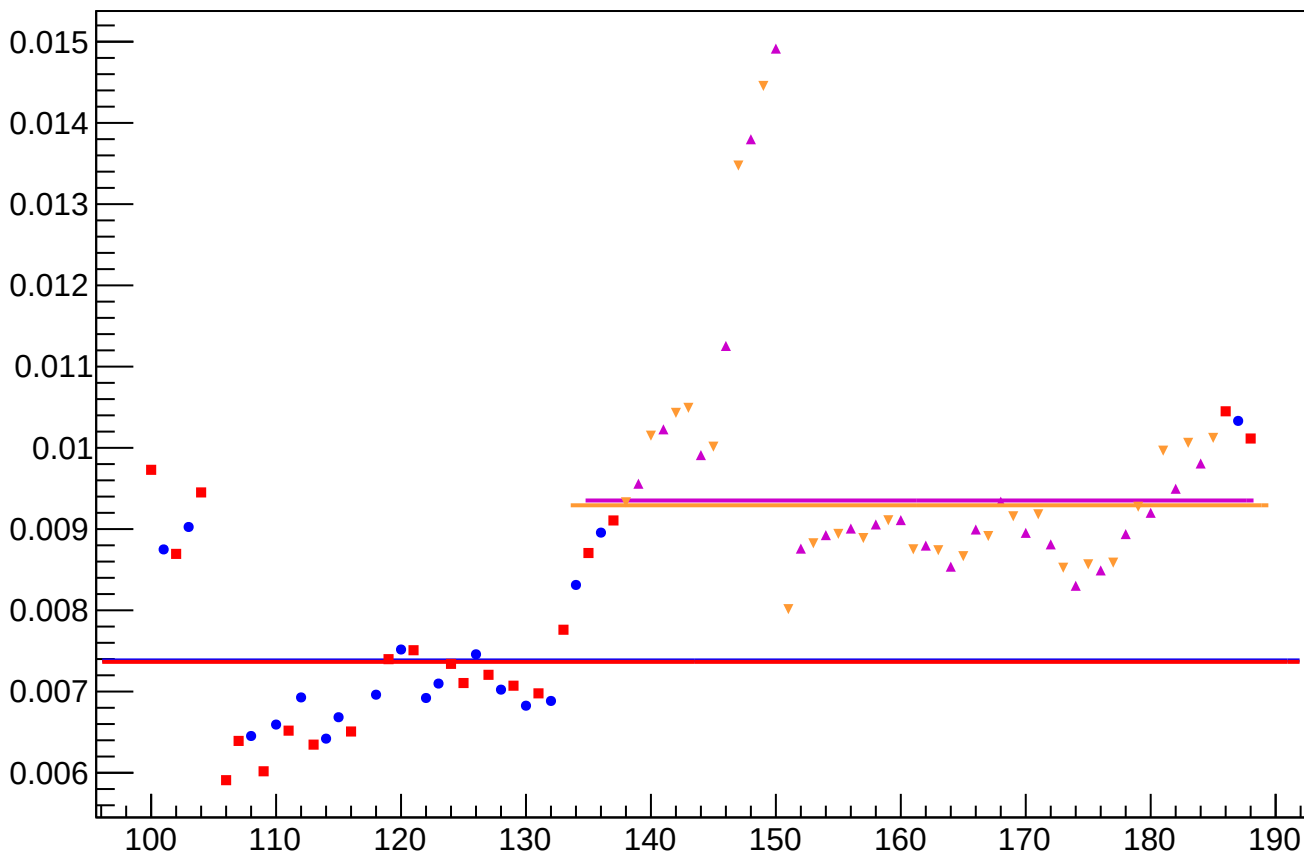
Right: 0.982 $\pm$ 0.000 χ^2 /NDF: 70040590827.1/38

In: 0.697 $\pm$ 0.000 χ^2 /NDF: 55747883333.0/40

Out: 0.655 $\pm$ 0.000 χ^2 /NDF: 72596236040.3/45

All: 0.675 $\pm$ 0.000 χ^2 /NDF: 128640166704.3

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 205525.8/17

Left Out: 0.009+/-0.000 χ^2/NDF : 528279.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 473501.1/20

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

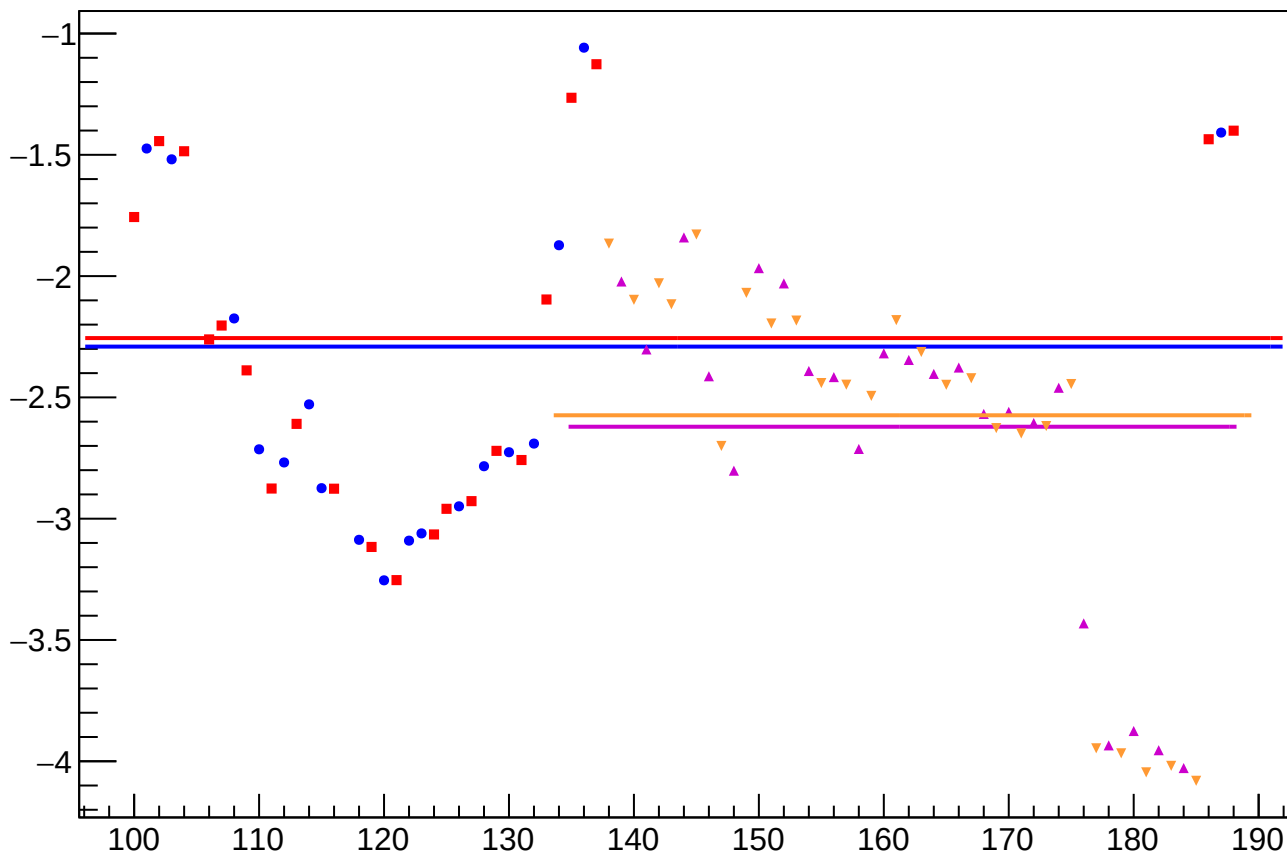
Right: 0.007+/-0.000 χ^2/NDF : 679069.0/38

In: 0.009+/-0.000 χ^2/NDF : 1347781.0/40

Out: 0.008+/-0.000 χ^2/NDF : 1649207.2/45

All: 0.009+/-0.000 χ^2/NDF : 3000261.7/86

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.291+/-0.000 χ^2/NDF : 74863386004.6/17

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.255+/-0.000 χ^2/NDF : 75420351029.4/20

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

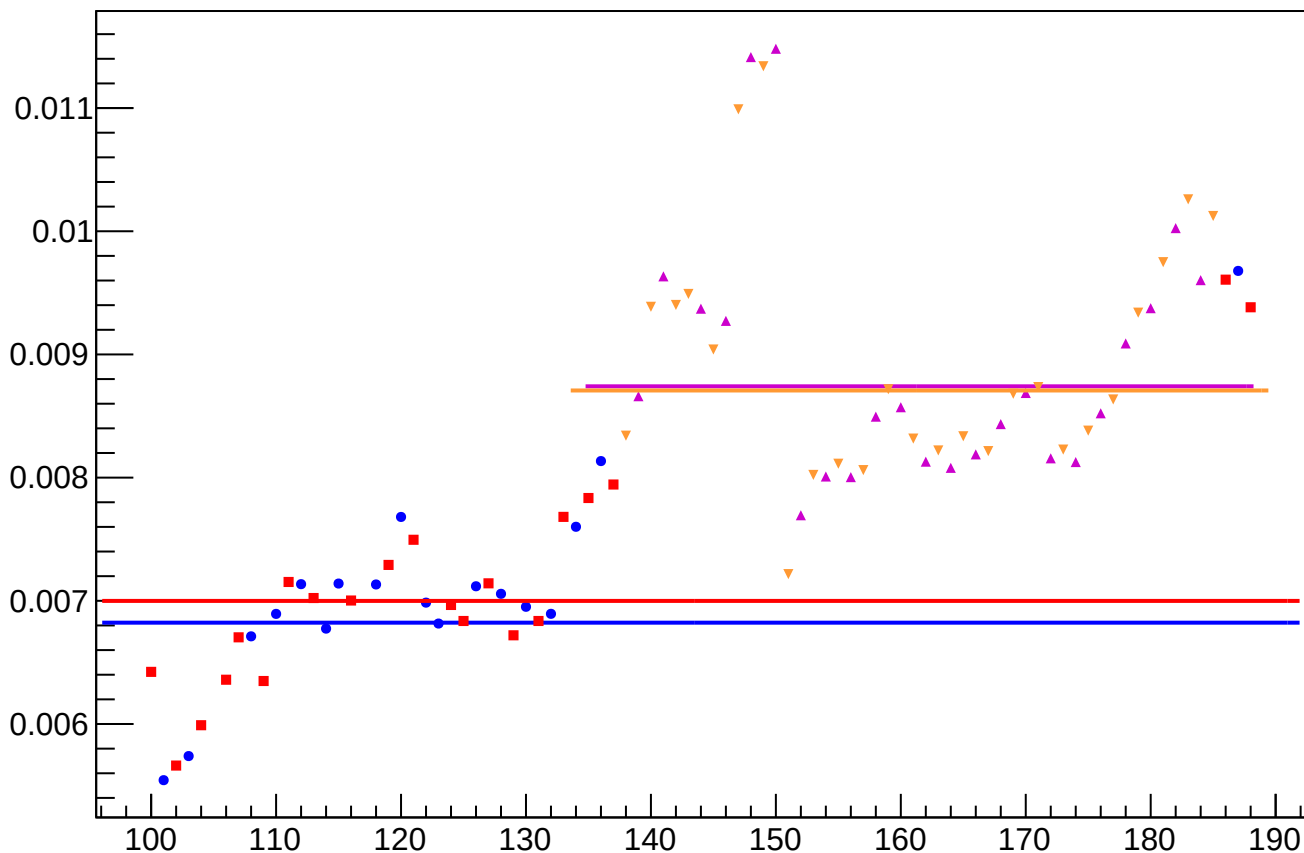
Right: -2.272+/-0.000 χ^2/NDF : 150379665694.0/38

In: -2.491+/-0.000 χ^2/NDF : 165336091271.9/40

Out: -2.443+/-0.000 χ^2/NDF : 184584157945.3/45

All: -2.466+/-0.000 χ^2/NDF : 350374424365.2

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 192232.4/17

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 309622.6/20

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

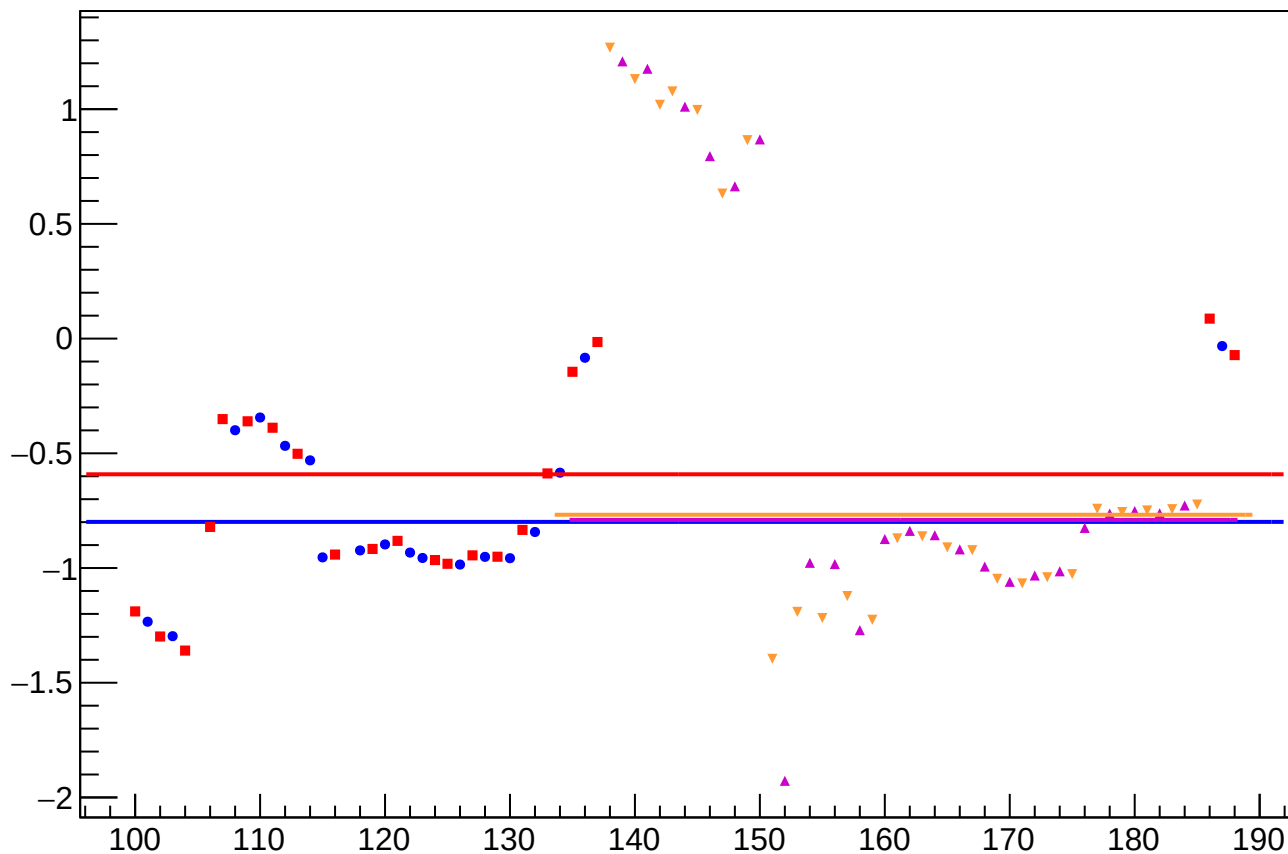
Right: 0.007+/-0.000 χ^2/NDF : 506704.7/38

In: 0.008+/-0.000 χ^2/NDF : 1194418.3/40

Out: 0.008+/-0.000 χ^2/NDF : 1254462.8/45

All: 0.008+/-0.000 χ^2/NDF : 2448989.5/86

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.799+/-0.000 χ^2/NDF : 8129630903.5/17

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.591+/-0.000 χ^2/NDF : 17233122353.2/20

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

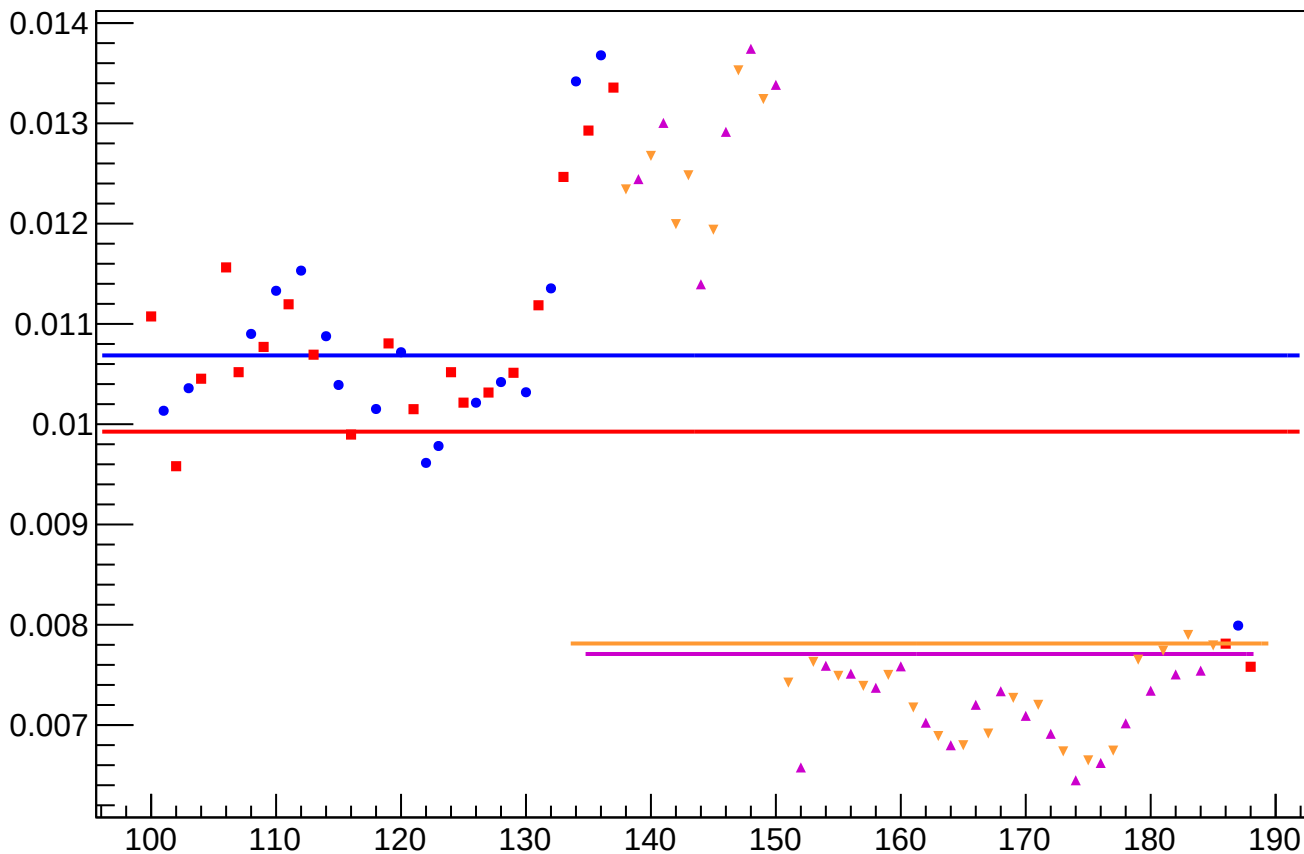
Right: -0.678+/-0.000 χ^2/NDF : 26824696529.6/38

In: -0.792+/-0.000 χ^2/NDF : 131585623762.0/40

Out: -0.728+/-0.000 χ^2/NDF : 139964557081.5/45

All: -0.759+/-0.000 χ^2/NDF : 272246143695.2

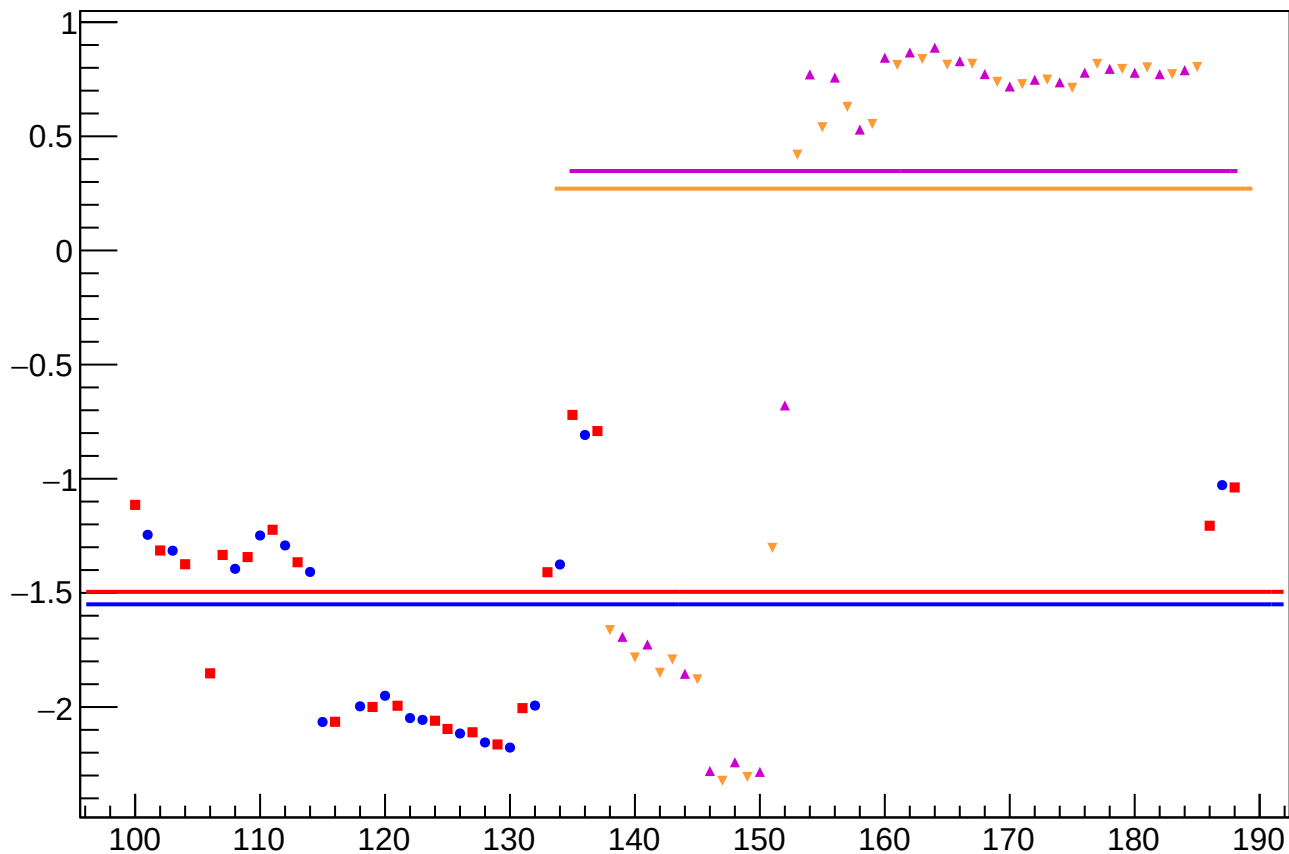
yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 160523.5/17
 Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24
 Right Out: 0.010+/-0.000 χ^2/NDF : 393772.1/20
 Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47
 Right: 0.010+/-0.000 χ^2/NDF : 593542.0/38
 In: 0.008+/-0.000 χ^2/NDF :2760936.0/40
 Out: 0.008+/-0.000 χ^2/NDF :2661207.0/45
 All: 0.008+/-0.000 χ^2/NDF : 5422986.3/86

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.550+/-0.000 χ^2/NDF : 155391976275.9/17

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.495+/-0.000 χ^2/NDF : 148414043694.3/20

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

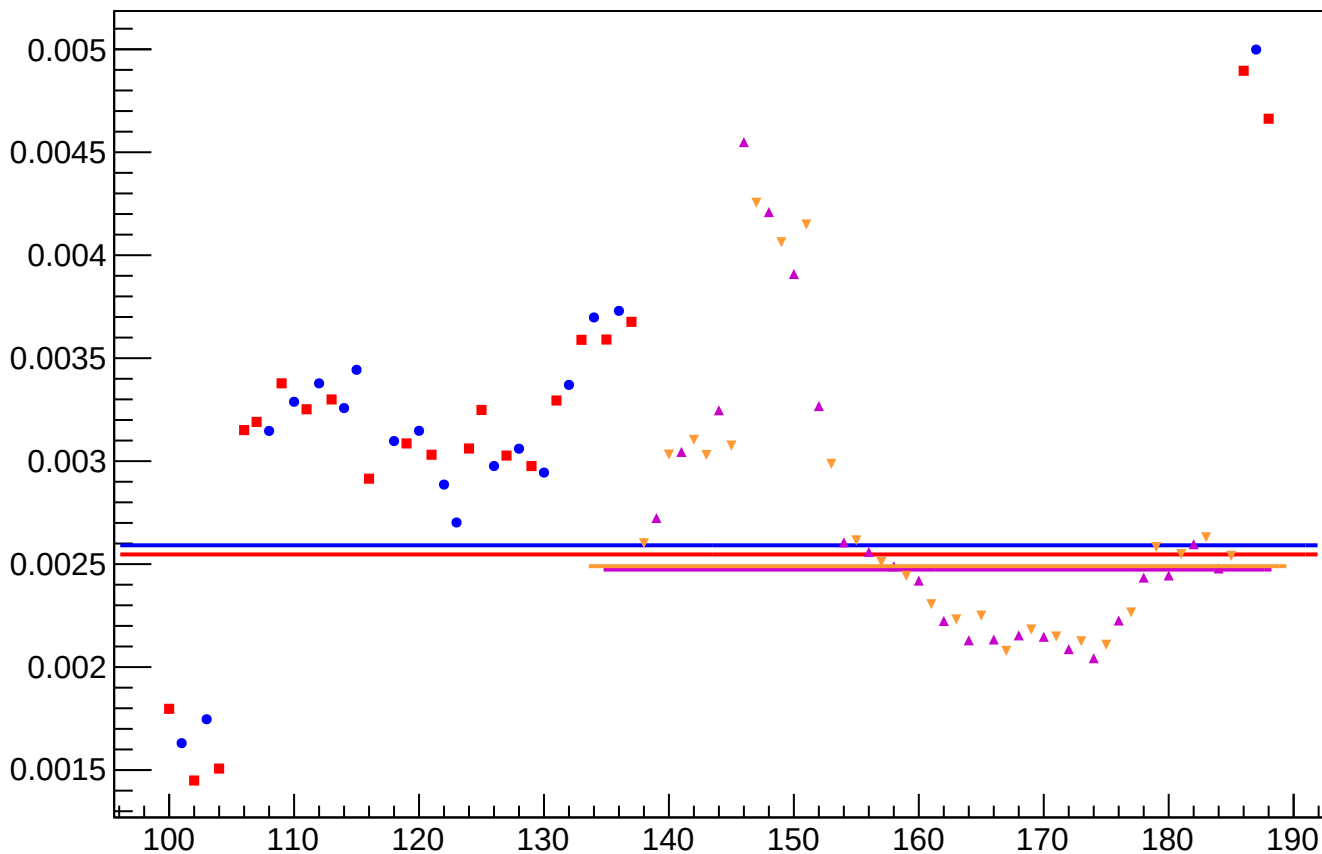
Right: -1.520+/-0.000 χ^2/NDF : 305201492008.7/38

In: -0.139+/-0.000 χ^2/NDF : 4722202675577.8/40

Out: -0.224+/-0.000 χ^2/NDF : 5023117430680.8/45

All: -0.183+/-0.000 χ^2/NDF : 9758044050415

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 1083283.0/17

Left Out: 0.002+/-0.000

χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000

χ^2/NDF : 2048018.3/20

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 : 3133136.4/38

In: 0.003+/-0.000

χ^2/NDF :2236269.1/40

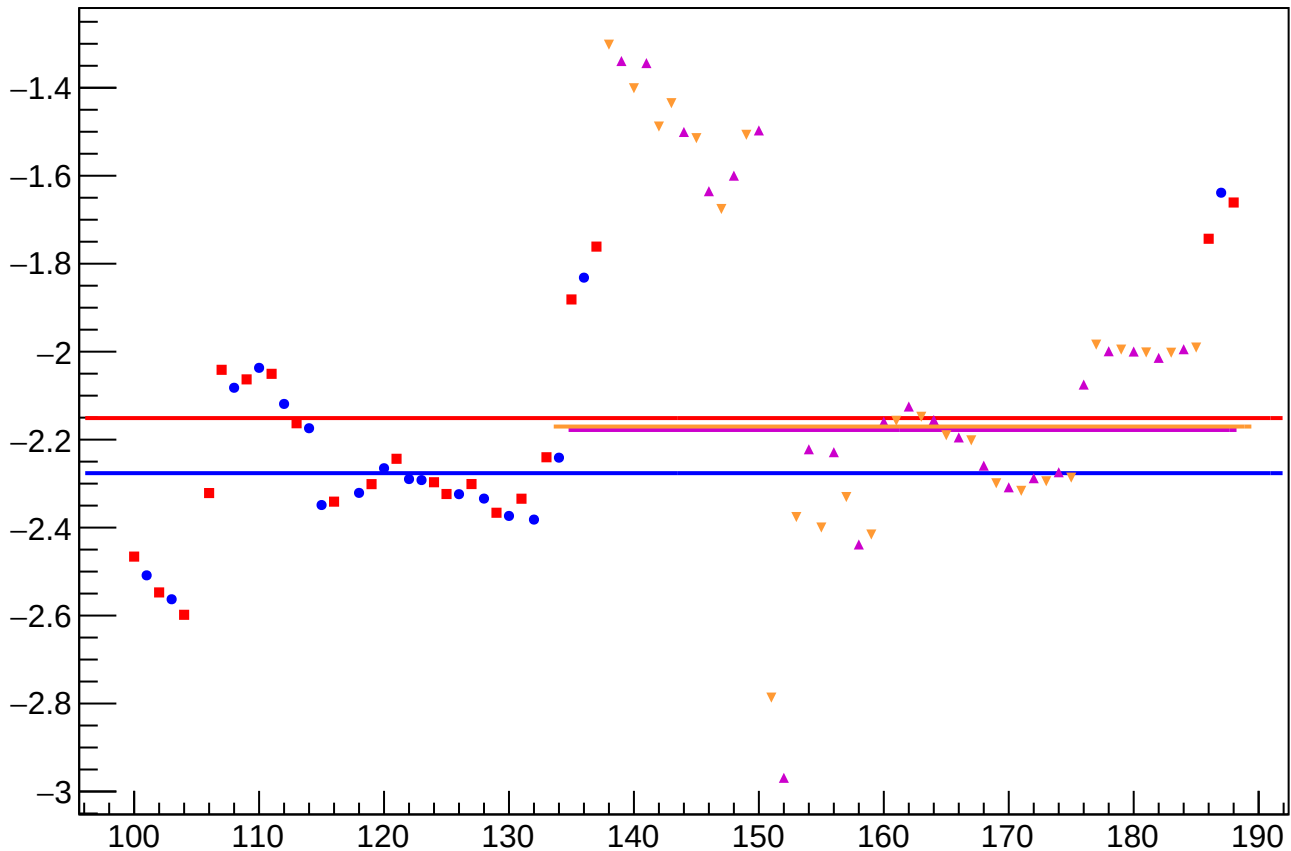
Out: 0.003+/-0.000

χ^2/NDF :3123062.9/45

All: 0.003+/-0.000

χ^2/NDF : 5359351.0/86

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.276+/-0.000 χ^2/NDF : 7783702740.0/17

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.151+/-0.000 χ^2/NDF : 19294383984.3/20

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

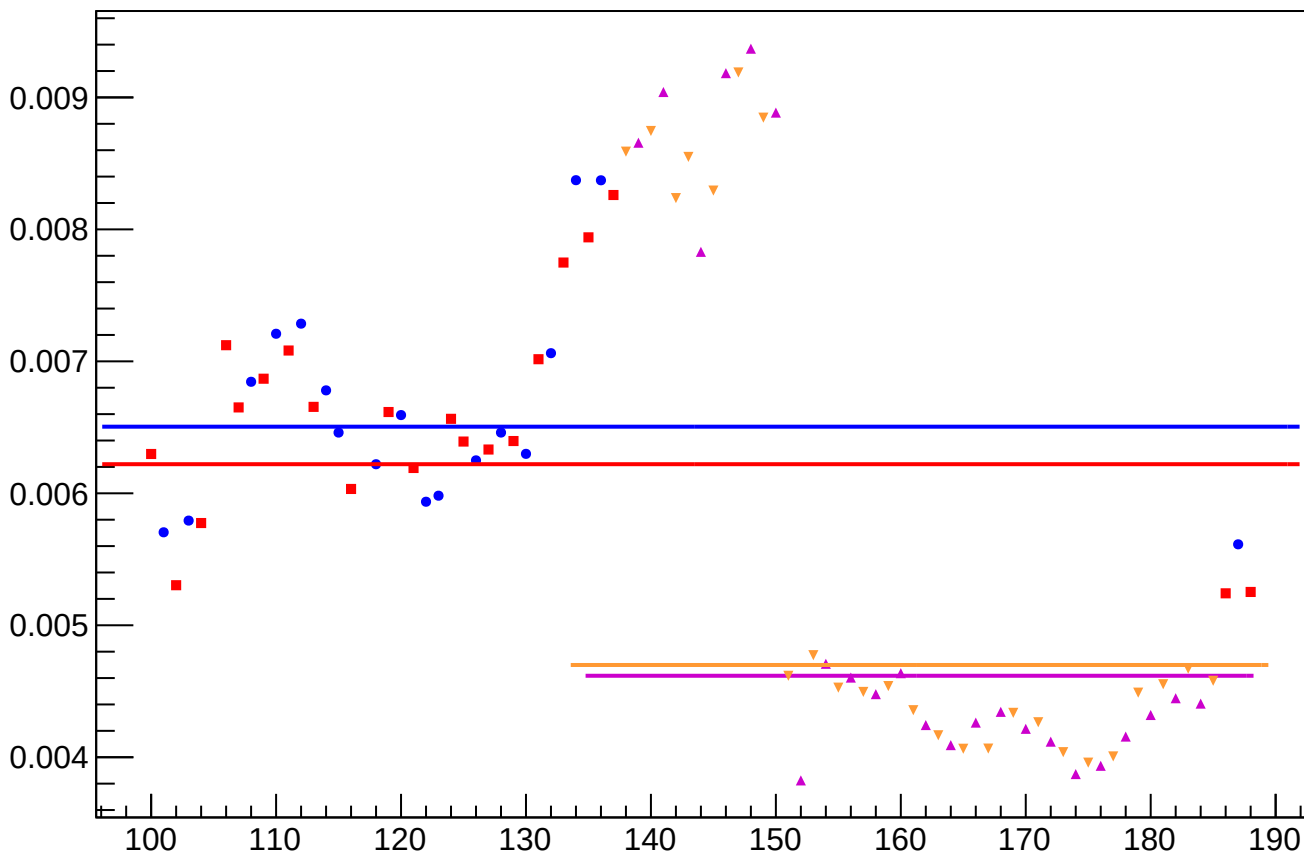
Right: -2.205+/-0.000 χ^2/NDF : 28467599280.0/38

In: -2.195+/-0.000 χ^2/NDF : 82423331406.9/40

Out: -2.166+/-0.000 χ^2/NDF : 79321451917.6/45

All: -2.180+/-0.000 χ^2/NDF : 162136757029.6

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 183418.1/17

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 273399.0/20

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

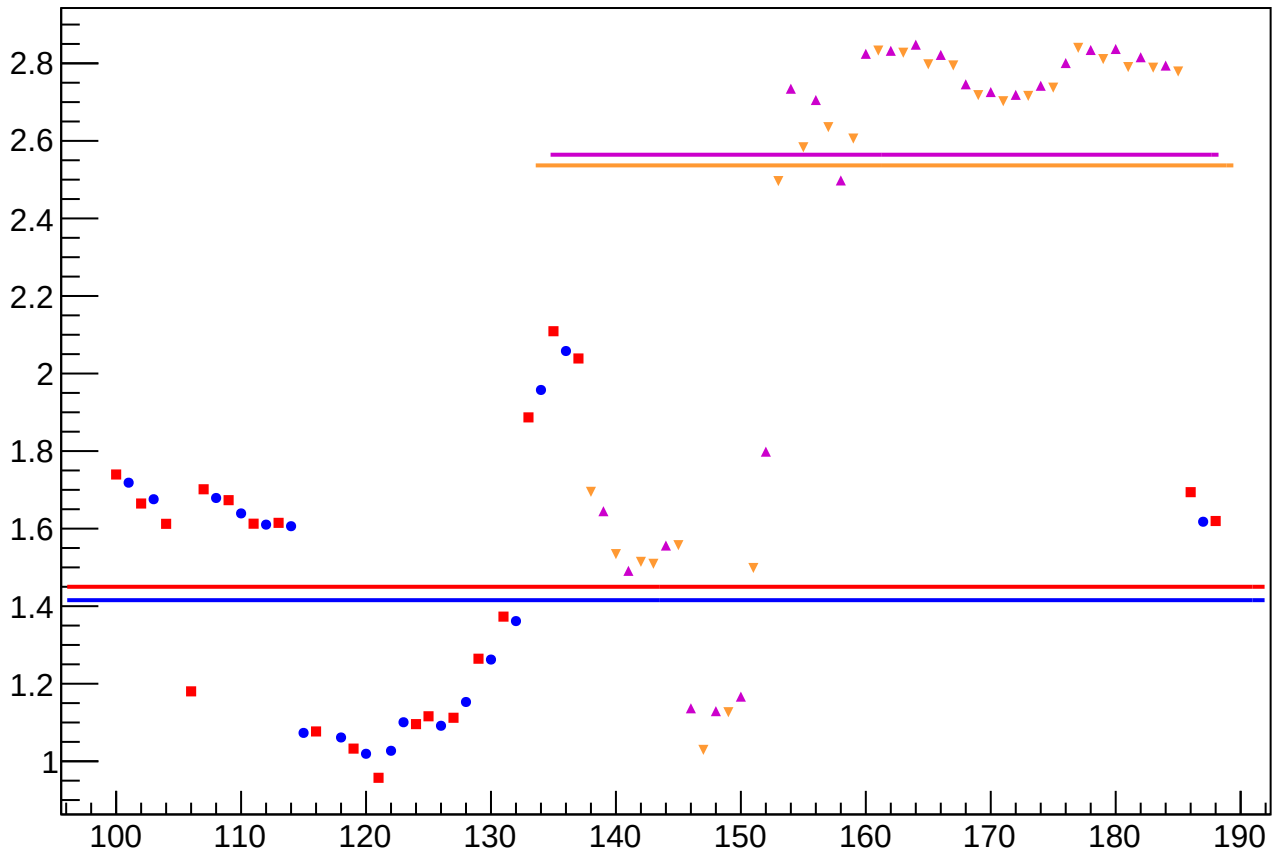
Right: 0.006+/-0.000 χ^2/NDF : 471144.1/38

In: 0.005+/-0.000 χ^2/NDF :3465763.0/40

Out: 0.005+/-0.000 χ^2/NDF :3341478.2/45

All: 0.005+/-0.000 χ^2/NDF : 6812637.3/86

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171952258400.1/17

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.450+/-0.000 χ^2/NDF : 174800248912.2/20

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

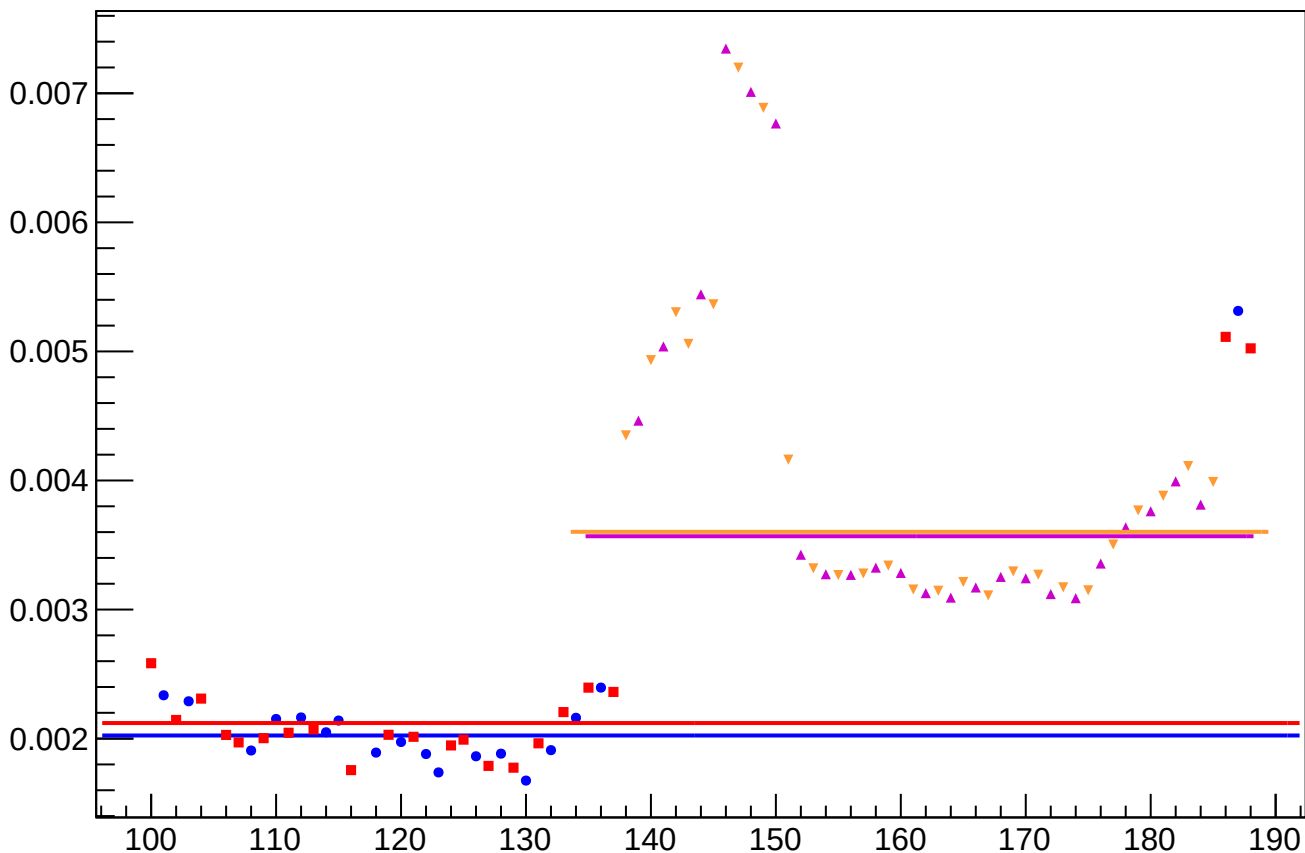
Right: 1.433+/-0.000 χ^2/NDF : 347690105069.9/38

In: 1.928+/-0.000 χ^2/NDF : 1328628148912.8/40

Out: 1.931+/-0.000 χ^2/NDF : 1292212864185.1/45

All: 1.930+/-0.000 χ^2/NDF : 2620855203929.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 264957.5/17

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 982021.6/20

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

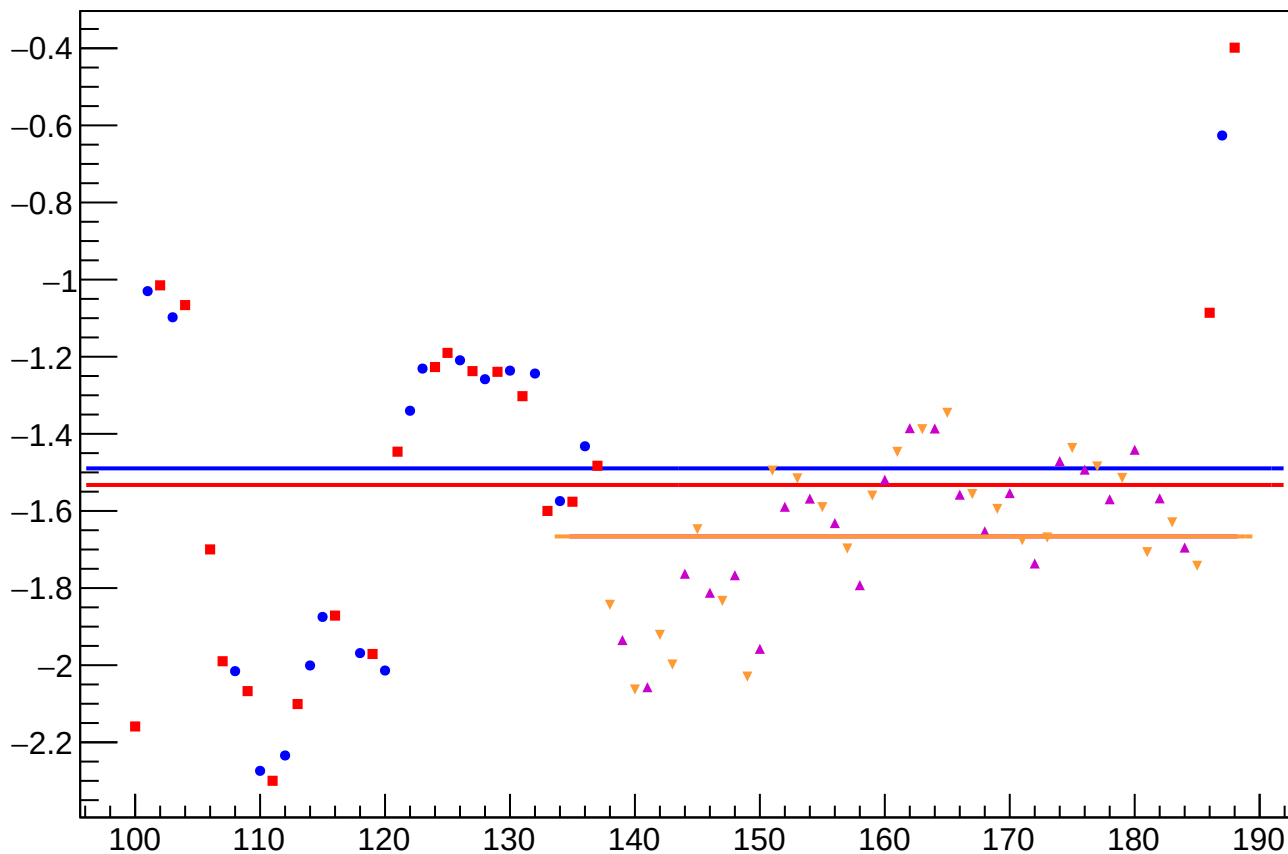
Right: 0.002+/-0.000 χ^2/NDF : 1261602.8/38

In: 0.003+/-0.000 χ^2/NDF :5064896.4/40

Out: 0.003+/-0.000 χ^2/NDF :5544226.1/45

All: 0.003+/-0.000 χ^2/NDF : 10620605.9/86

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.490+/-0.000 χ^2/NDF : 23311263811.8/17

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.533+/-0.000 χ^2/NDF : 41877100994.5/20

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

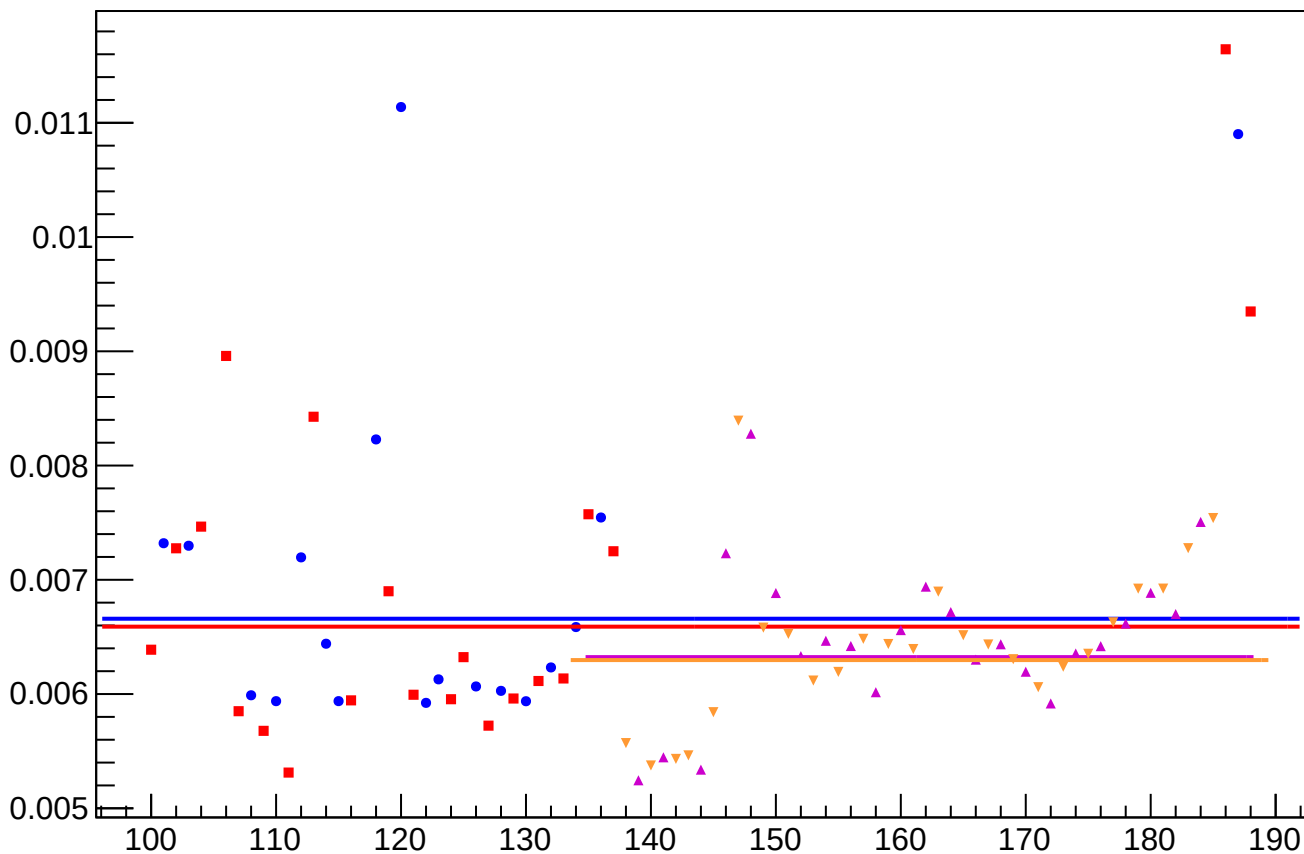
Right: -1.514+/-0.000 χ^2/NDF : 65332359077.8/38

In: -1.621+/-0.000 χ^2/NDF : 40845378599.3/40

Out: -1.628+/-0.000 χ^2/NDF : 62440388233.2/45

All: -1.625+/-0.000 χ^2/NDF : 103299004828.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 271832.8/17

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 526873.8/20

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

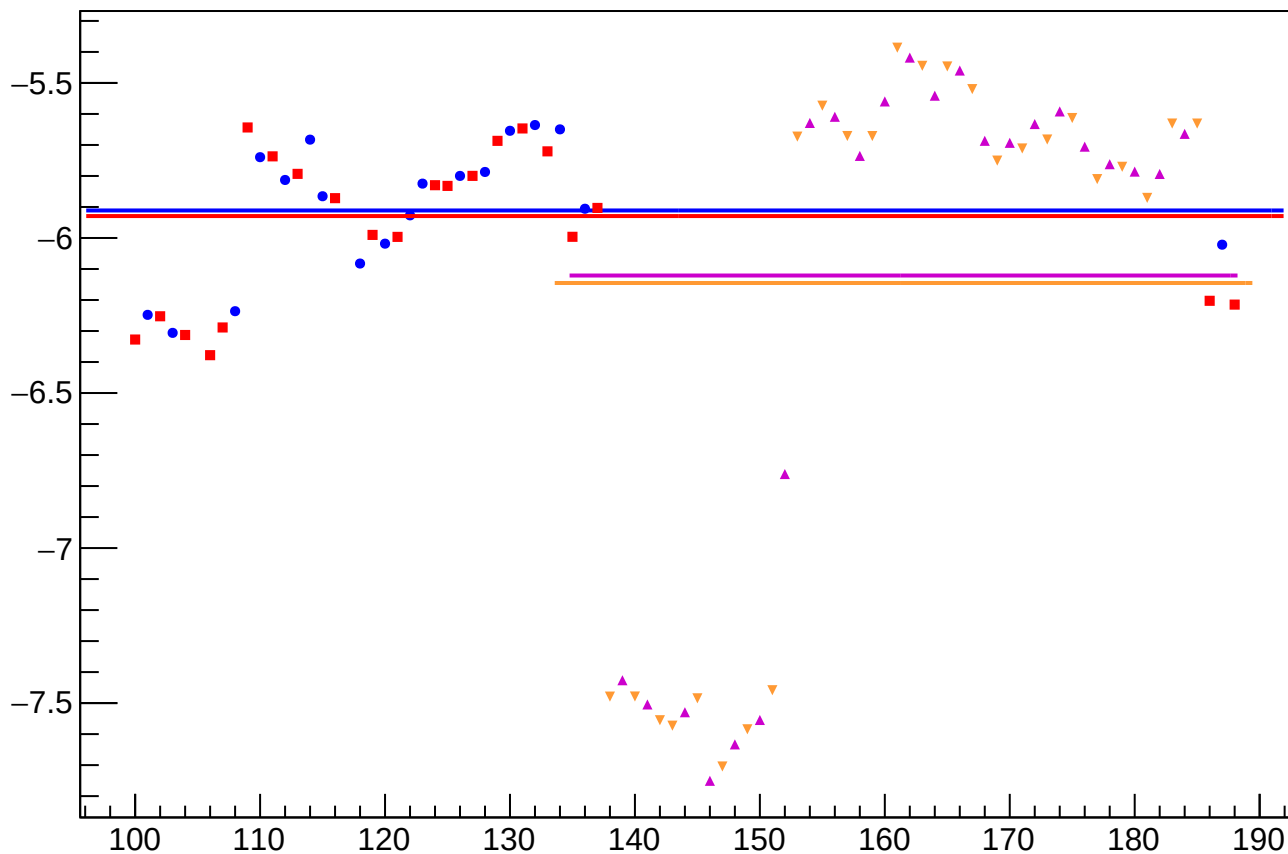
Right: 0.007+/-0.000 χ^2/NDF : 799455.2/38

In: 0.006+/-0.000 χ^2/NDF :626186.7/40

Out: 0.006+/-0.000 χ^2/NDF :859133.6/45

All: 0.006+/-0.000 χ^2/NDF : 1485769.5/86

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911+/-0.000 χ^2/NDF : 11143511547.7/17

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.929+/-0.000 χ^2/NDF : 13457752850.3/20

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

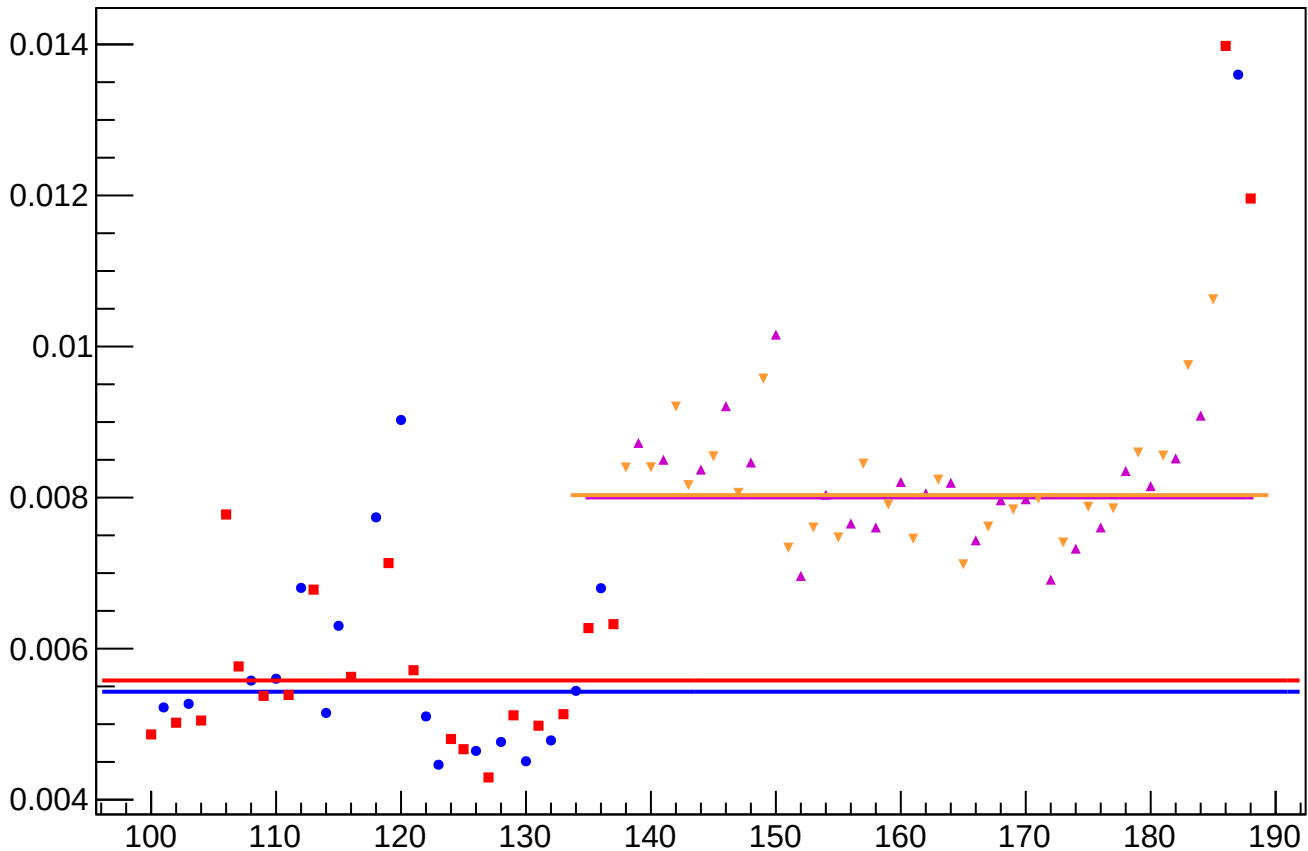
Right: -5.921+/-0.000 χ^2/NDF : 24636453492.0/38

In: -6.026+/-0.000 χ^2/NDF : 174356044526.6/40

Out: -6.043+/-0.000 χ^2/NDF : 204483709251.0/45

All: -6.035+/-0.000 χ^2/NDF : 378904956437.3

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 468052.6/17

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1014927.6/20

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

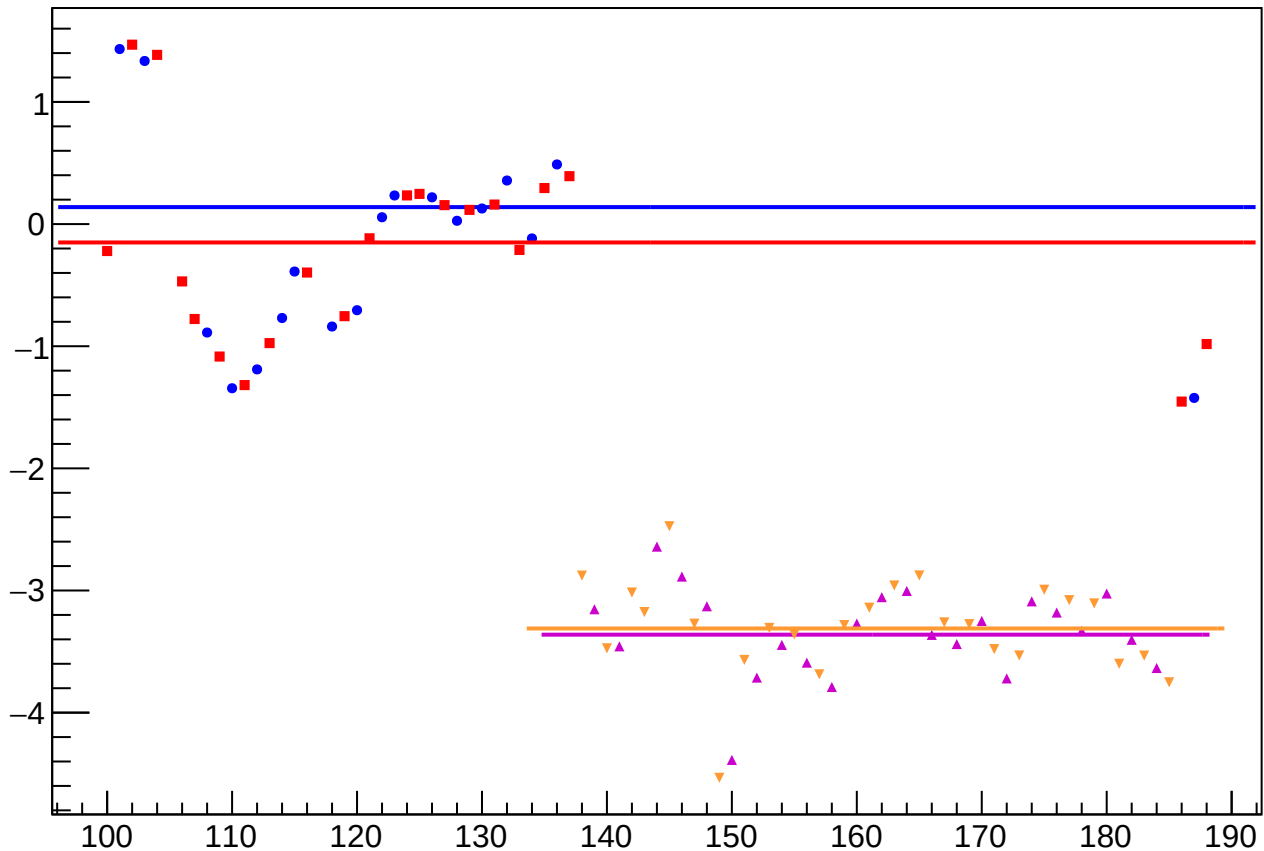
Right: 0.006+/-0.000 χ^2/NDF : 1487773.4/38

In: 0.007+/-0.000 χ^2/NDF :2160527.8/40

Out: 0.007+/-0.000 χ^2/NDF :2684579.7/45

All: 0.007+/-0.000 χ^2/NDF : 4845563.8/86

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.139+/-0.000 χ^2/NDF : 17770432618.3/17

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.150+/-0.000 χ^2/NDF : 25279011175.5/20

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

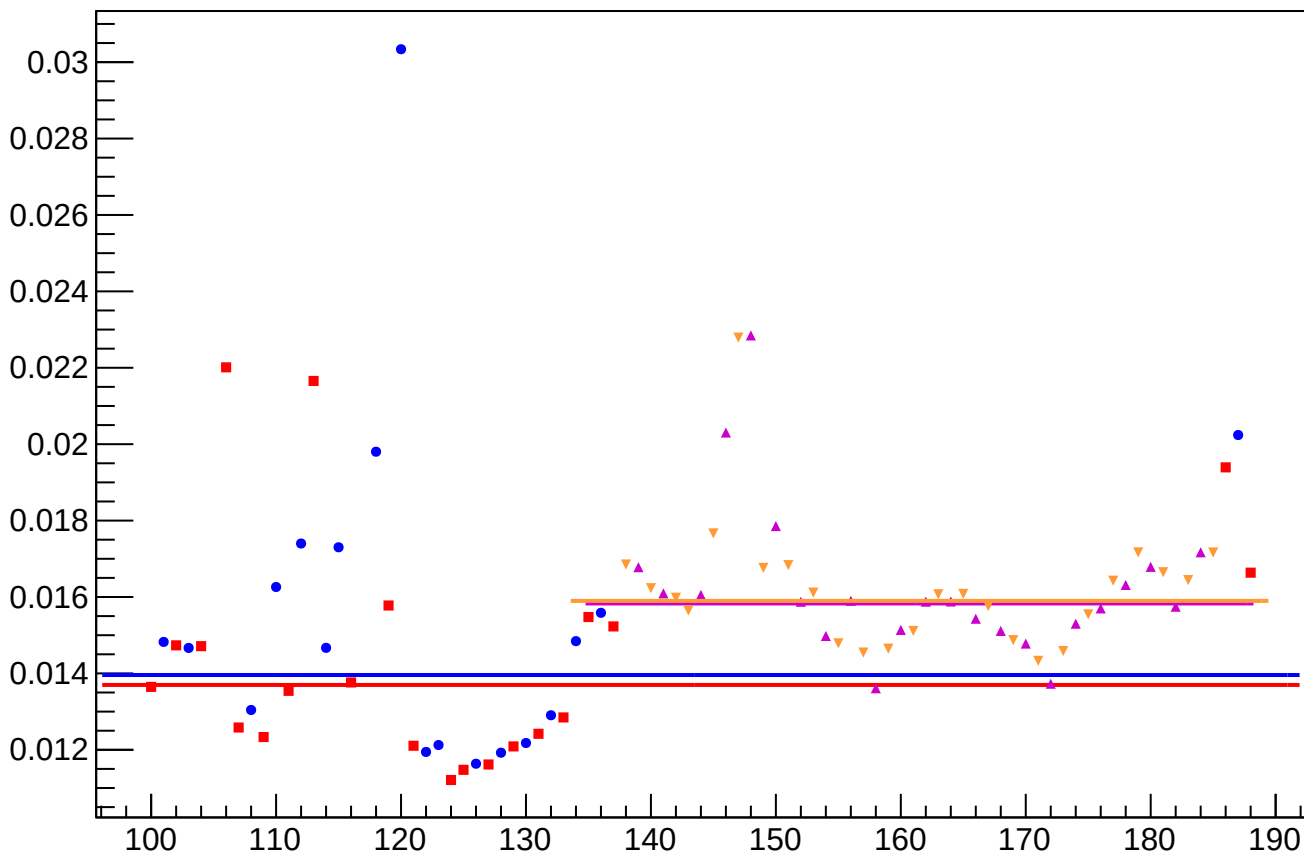
Right: -0.025+/-0.000 χ^2/NDF : 44515607619.1/38

In: -2.249+/-0.000 χ^2/NDF : 284136141650.3/40

Out: -2.154+/-0.000 χ^2/NDF : 290242504487.7/45

All: -2.198+/-0.000 χ^2/NDF : 574836226650.0

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 427217.1/17

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 417592.1/20

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

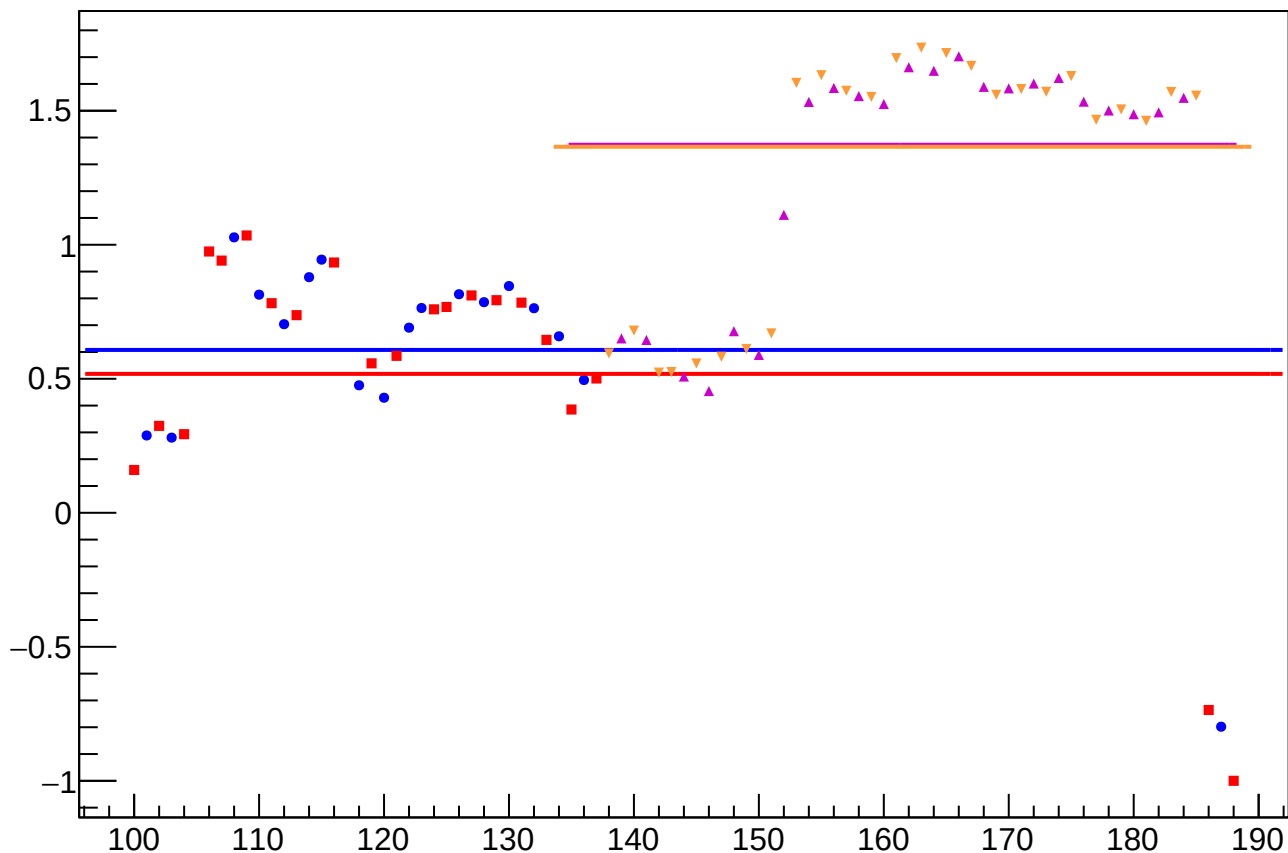
Right: 0.014+/-0.000 χ^2/NDF : 847181.1/38

In: 0.015+/-0.000 χ^2/NDF :914555.4/40

Out: 0.015+/-0.000 χ^2/NDF :917415.0/45

All: 0.015+/-0.000 χ^2/NDF : 1834057.2/86

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.608 $\pm$ 0.000

χ^2 /NDF: 6761523365.3/17

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

Right: 0.559 $\pm$ 0.000 χ^2 /NDF: 31996577385.2/38

Left Out: 1.366 $\pm$ 0.000

χ^2 /NDF: 74741956067.9/24

In: 1.233 $\pm$ 0.000 χ^2 /NDF: 115994173786.0/40

Right Out: 0.518 $\pm$ 0.000

χ^2 /NDF: 24814924915.2/20

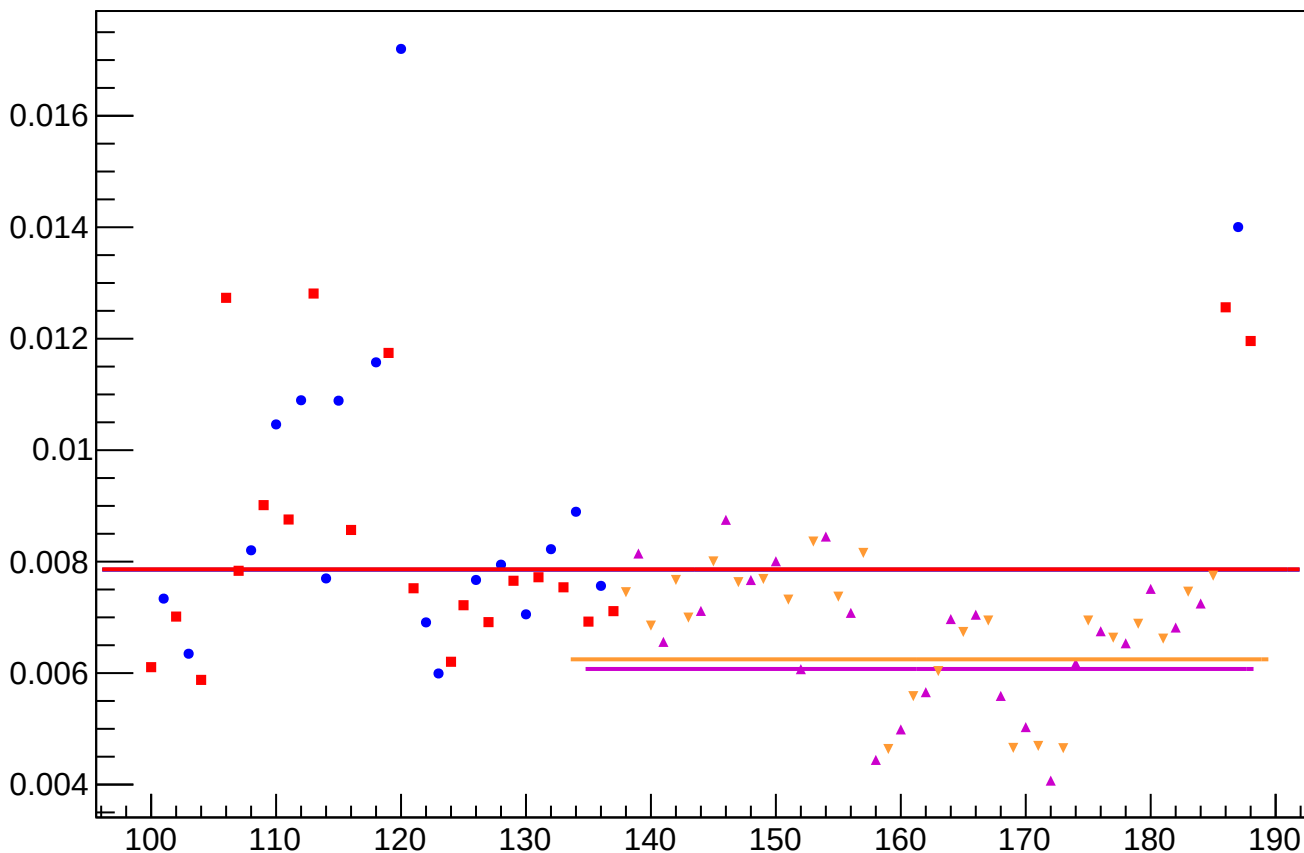
Out: 1.183 $\pm$ 0.000 χ^2 /NDF: 165356762527.8/45

Left In: 1.373 $\pm$ 0.000

χ^2 /NDF: 63413151416.3/22

All: 1.208 $\pm$ 0.000 χ^2 /NDF: 282013611636.9

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 519241.4/17

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 761749.9/20

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

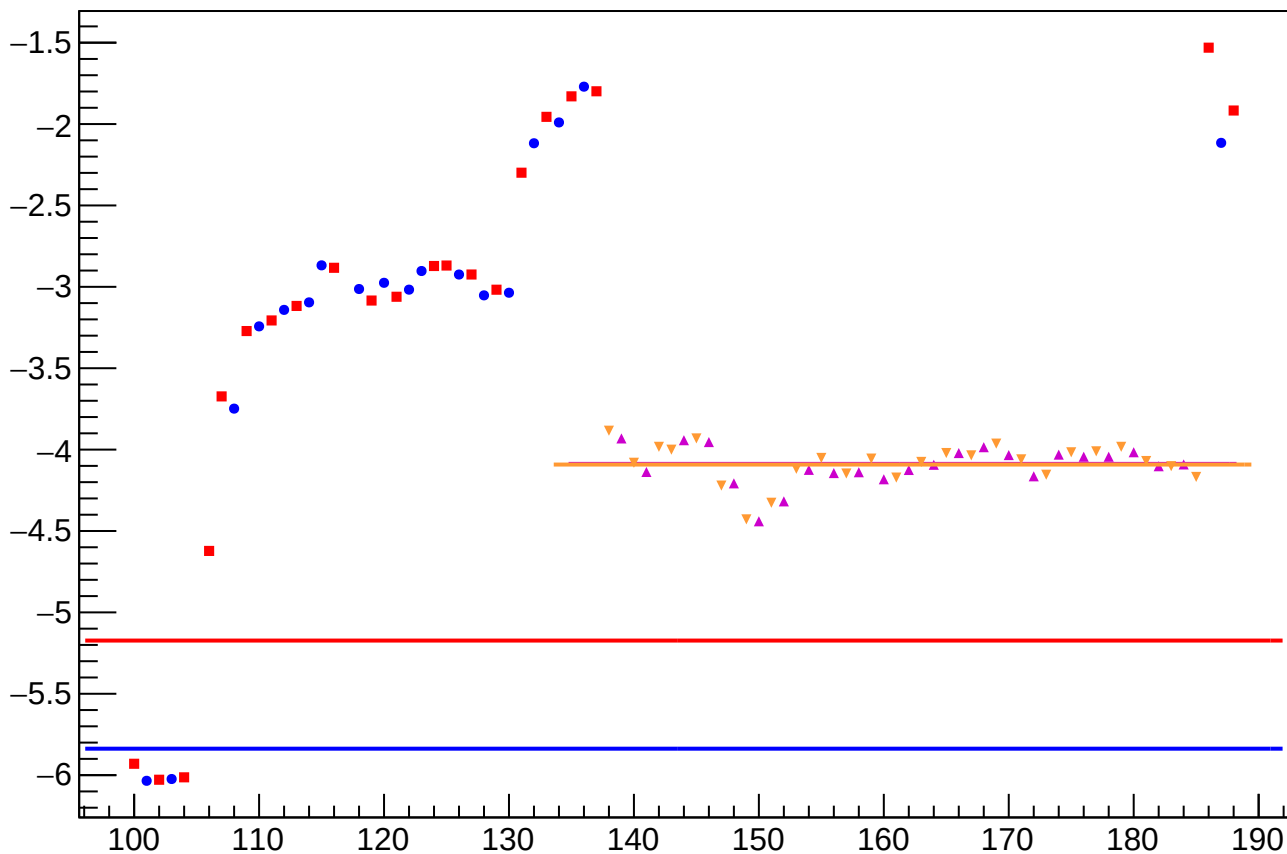
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 1280995.7/38

In: 0.006 $\pm$ 0.000 χ^2 /NDF:2447491.6/40

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:2570709.9/45

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 5038360.9/86

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.837+/-0.000 χ^2/NDF : 33064531592.3/17

Left Out: -4.092+/-0.000 χ^2/NDF : 39806766.7/24

Right Out: -5.173+/-0.000 χ^2/NDF : 129631974368.8/20

Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000 χ^2/NDF : 74248792.8/47

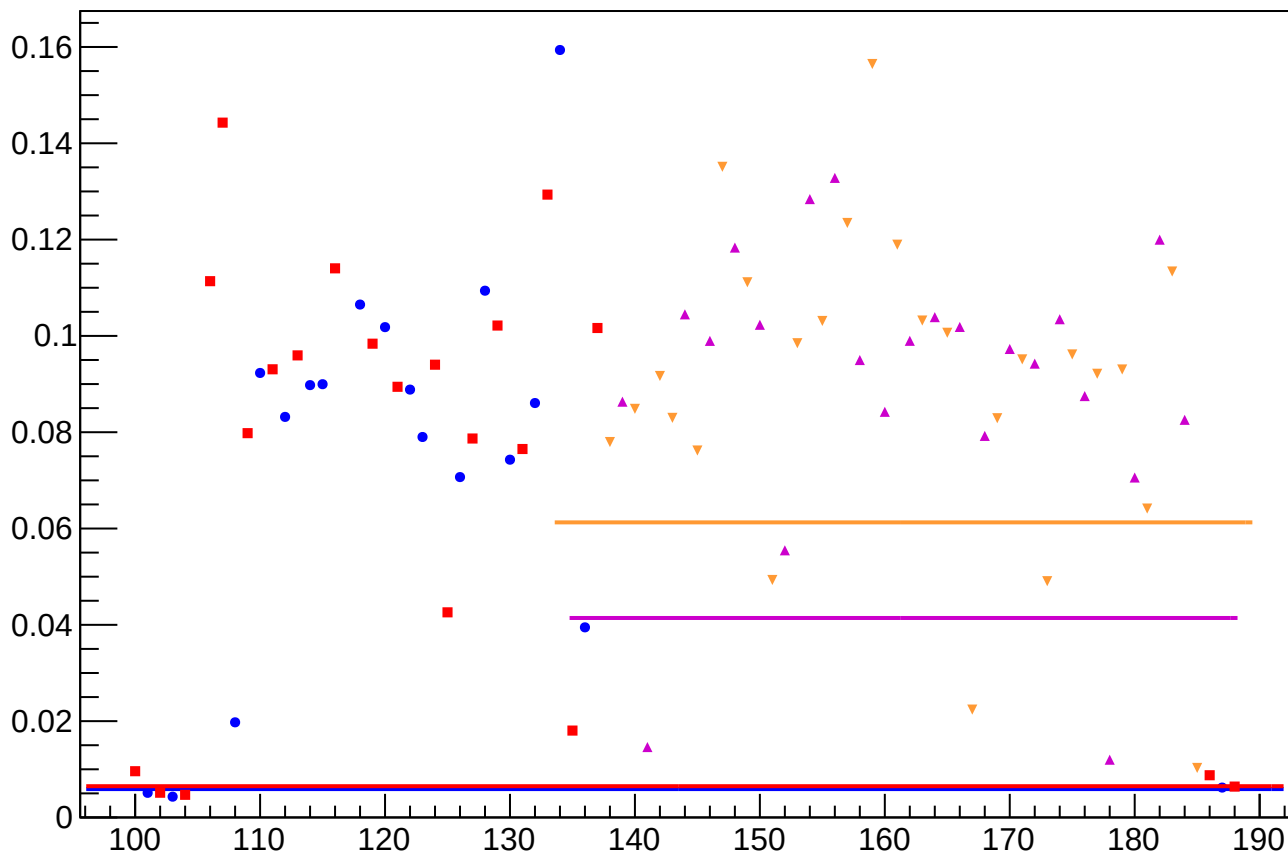
Right: -5.513+/-0.000 χ^2/NDF : 173219068669.0/38

In: -5.697+/-0.000 χ^2/NDF : 45105259558.3/40

Out: -5.109+/-0.000 χ^2/NDF : 132918771595.8/45

All: -5.413+/-0.000 χ^2/NDF : 186886554506.8

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 ± 0.000 χ^2/NDF : 7912292.7/17

Left Out: 0.061 ± 0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.006 ± 0.000 χ^2/NDF : 8479530.7/20

Left In: 0.041 ± 0.000 χ^2/NDF : 13124468.7/22

Left: 0.050 ± 0.000 χ^2/NDF : 22855159.2/47

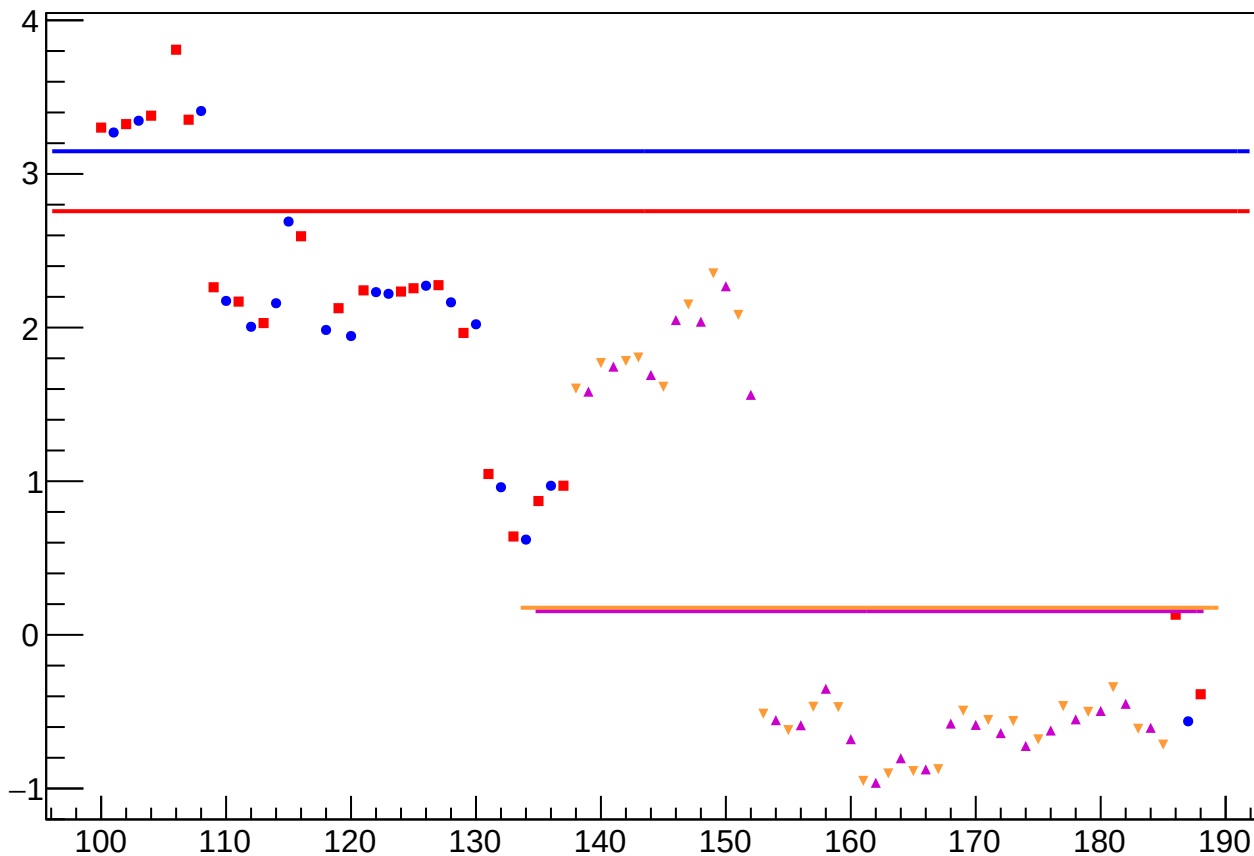
Right: 0.006 ± 0.000 χ^2/NDF : 16408874.6/38

In: 0.009 ± 0.000 χ^2/NDF : 30938877.3/40

Out: 0.010 ± 0.000 χ^2/NDF : 33505058.2/45

All: 0.009 ± 0.000 χ^2/NDF : 64495520.3/86

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.148 $\pm$ 0.000 χ^2 /NDF: 15248945241.6/17

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 2.758 $\pm$ 0.000 χ^2 /NDF: 53897614420.8/20

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

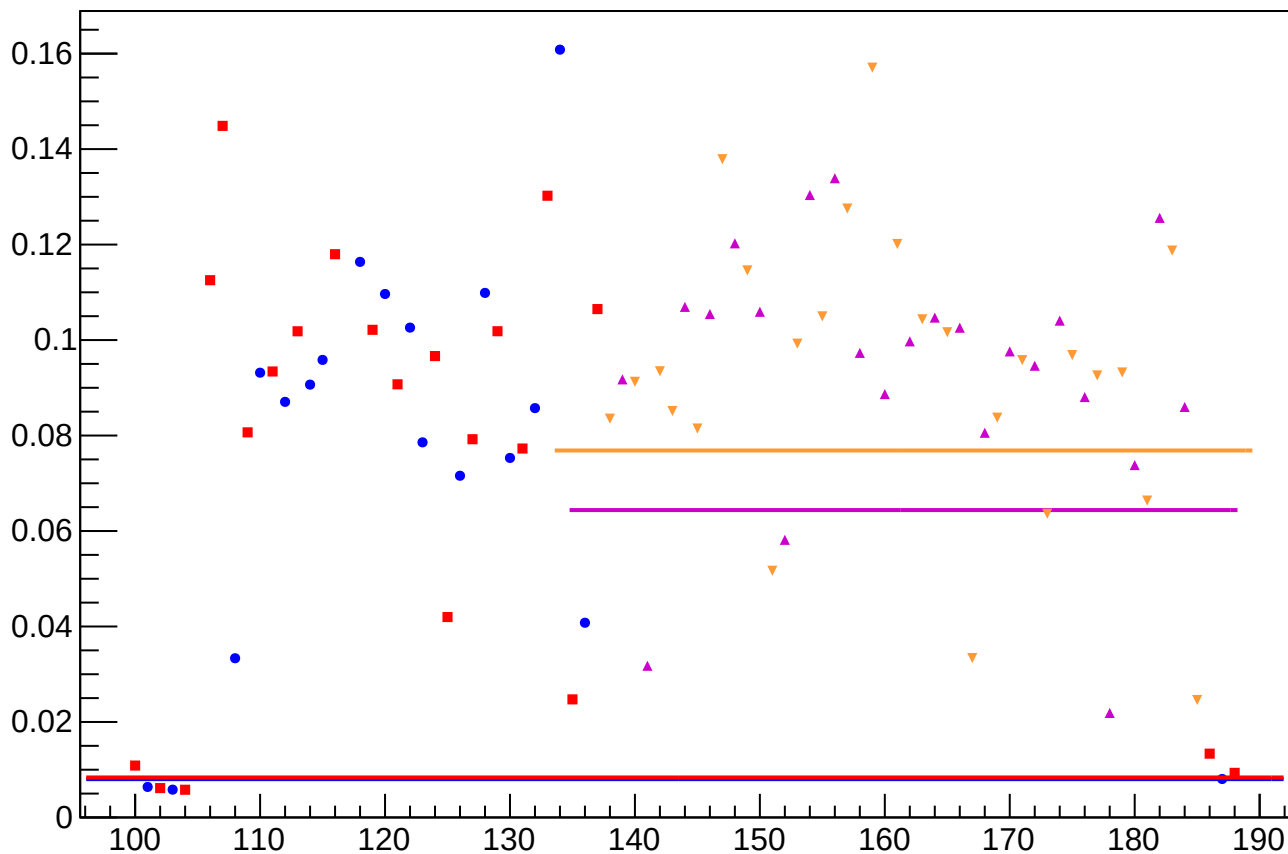
Right: 2.948 $\pm$ 0.000 χ^2 /NDF: 71454866078.0/38

In: 2.908 $\pm$ 0.000 χ^2 /NDF: 39671351417.4/40

Out: 2.582 $\pm$ 0.000 χ^2 /NDF: 71249088887.8/45

All: 2.742 $\pm$ 0.000 χ^2 /NDF: 112658993846.7

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7721104.7/17

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 4217954.3/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8330191.8/20

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

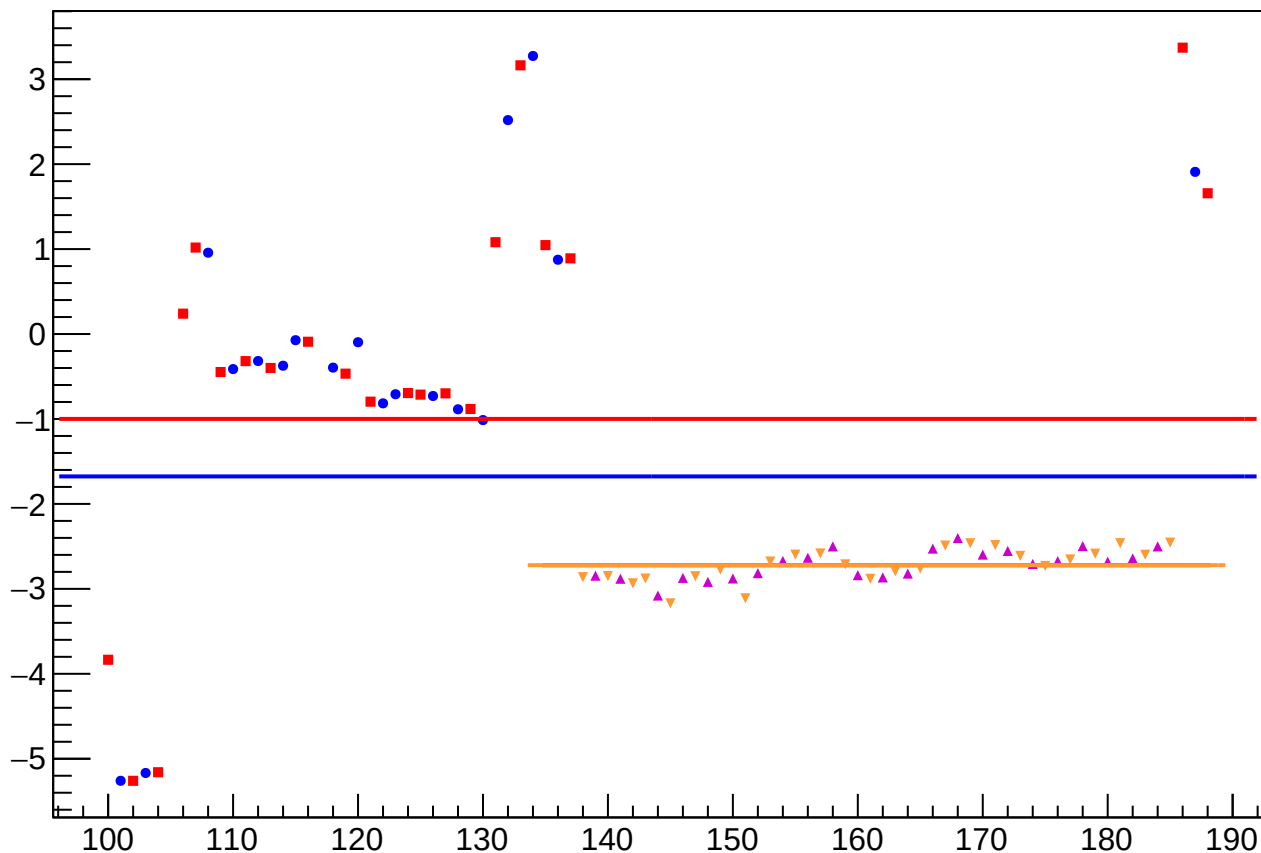
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16054989.3/38

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 29784659.7/40

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 32373227.5/45

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62165728.9/86

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.676+/-0.000 χ^2/NDF : 168644879539.0/17

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.999+/-0.000 χ^2/NDF : 205775435990.1/20

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

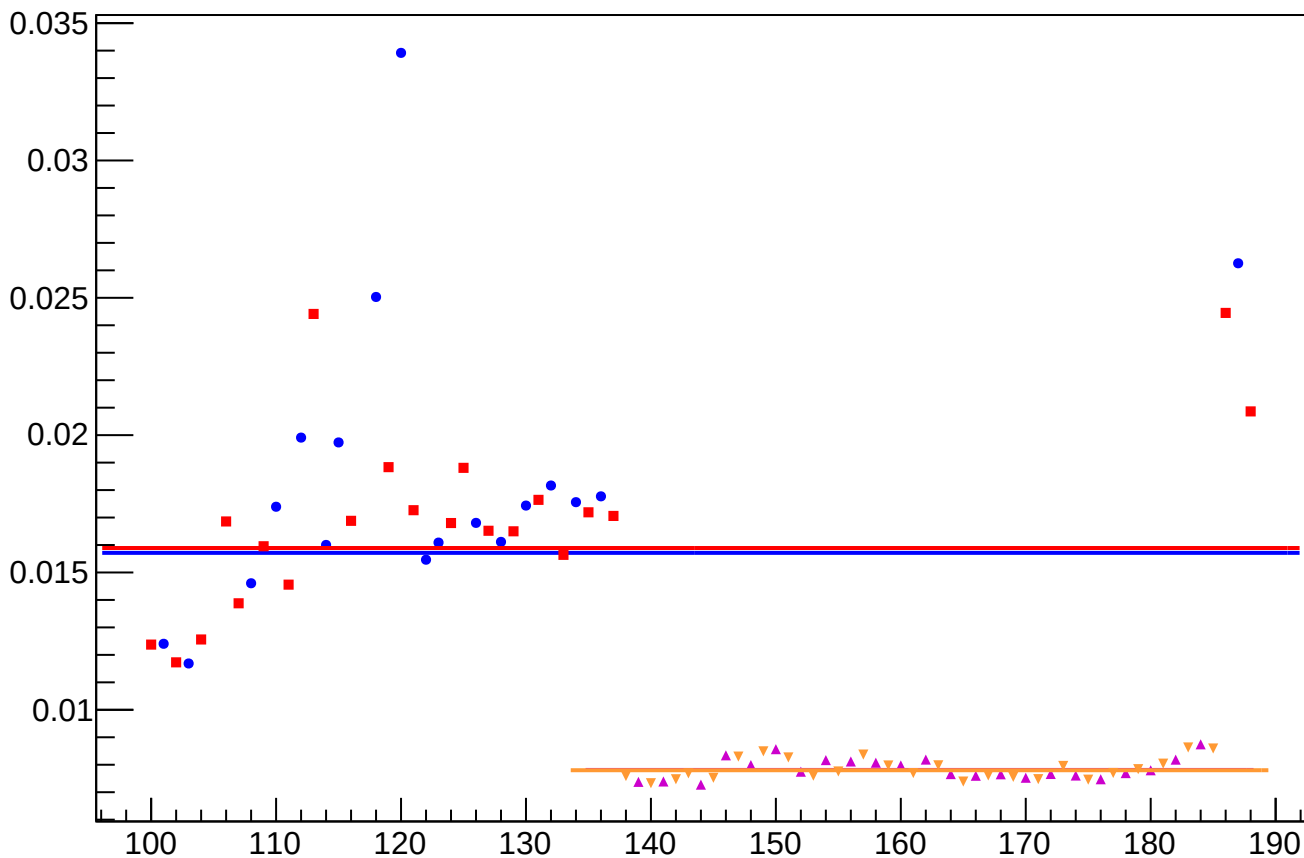
Right: -1.300+/-0.000 χ^2/NDF : 380301628591.7/38

In: -2.641+/-0.000 χ^2/NDF : 200073715912.5/40

Out: -2.566+/-0.000 χ^2/NDF : 294111525628.4/45

All: -2.602+/-0.000 χ^2/NDF : 495049353983.9

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 619359.1/17

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.016+/-0.000 χ^2/NDF : 548772.5/20

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

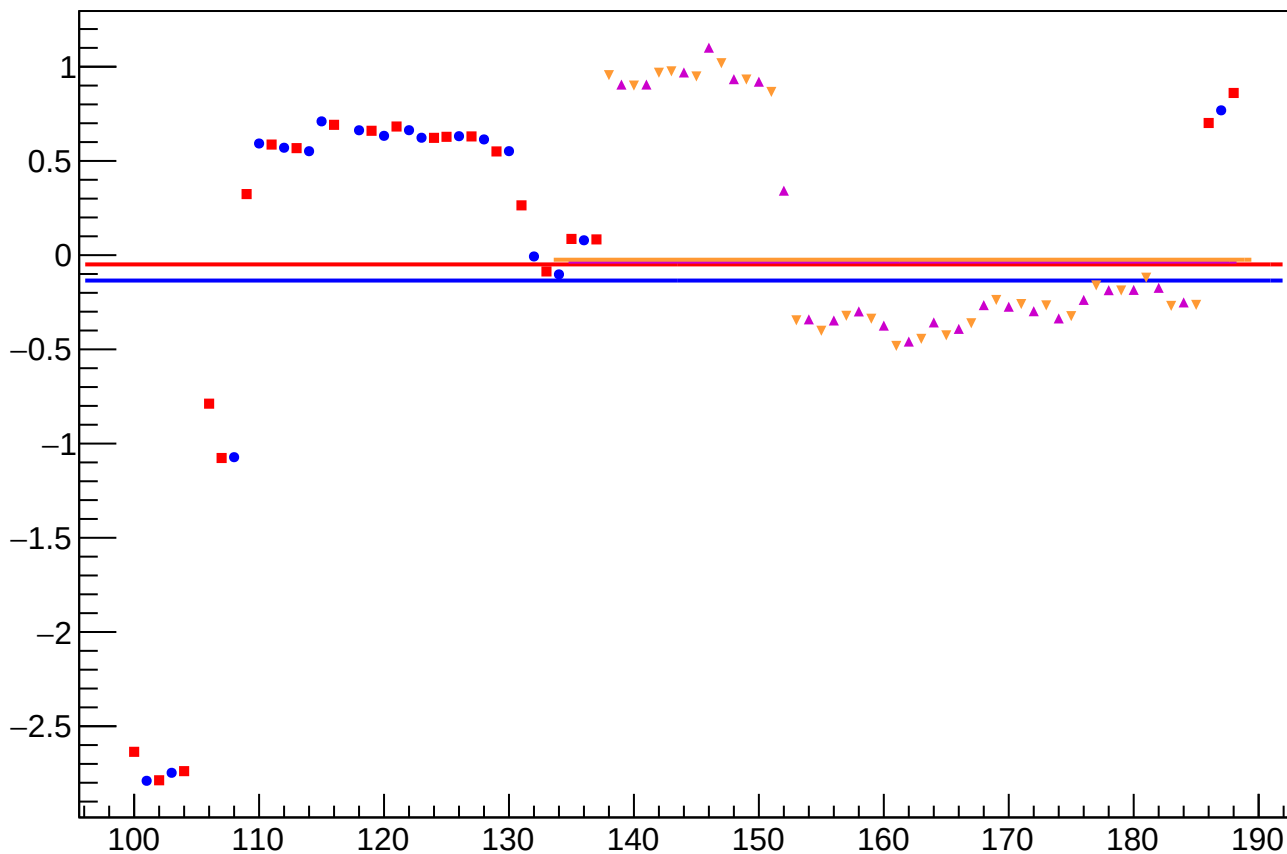
Right: 0.016+/-0.000 χ^2/NDF : 1168930.4/38

In: 0.008+/-0.000 χ^2/NDF : 3346935.2/40

Out: 0.009+/-0.000 χ^2/NDF : 4060652.8/45

All: 0.008+/-0.000 χ^2/NDF : 7411034.7/86

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.135+/-0.000

χ^2/NDF : 717133528831.5/17

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: -0.088+/-0.000

χ^2/NDF : 1521372234190.2/3

Right Out: -0.049+/-0.000

χ^2/NDF : 802193844353.4/20

In: -0.087+/-0.000

χ^2/NDF : 833528368970.8/40

Out: -0.038+/-0.000

χ^2/NDF : 937813101587.9/45

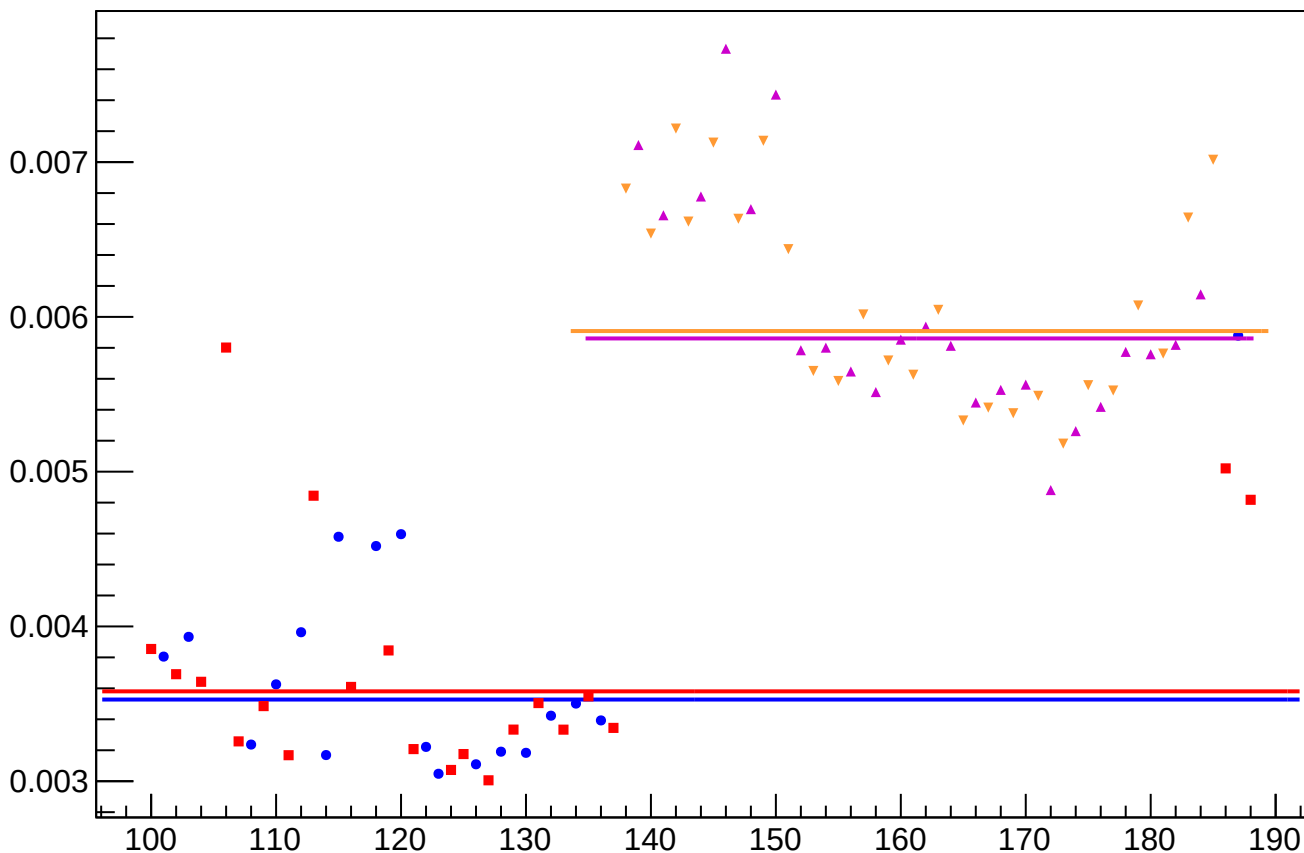
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: -0.061+/-0.000

χ^2/NDF : 1772579316932

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 214932.0/17

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 400862.9/20

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

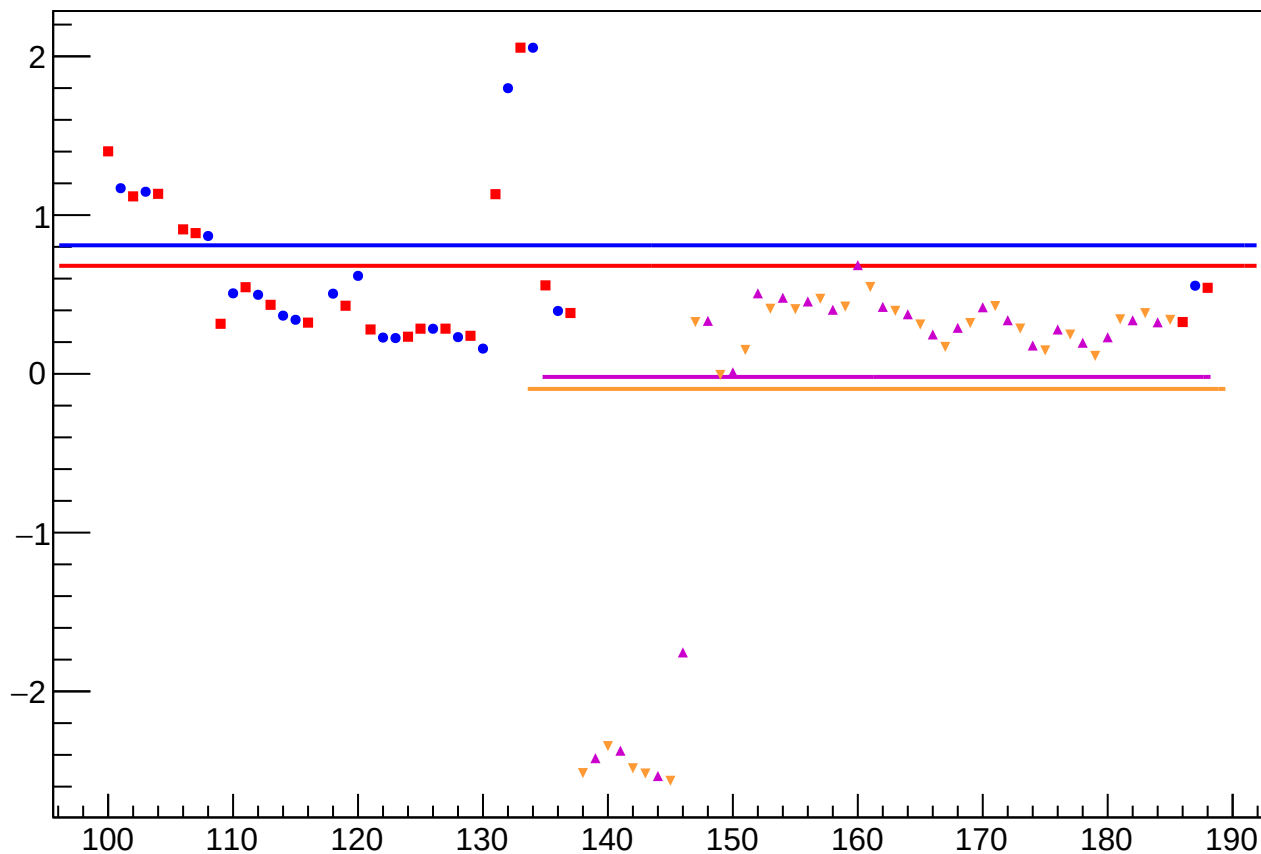
Right: 0.004+/-0.000 χ^2/NDF : 617353.7/38

In: 0.005+/-0.000 χ^2/NDF :3240258.5/40

Out: 0.005+/-0.000 χ^2/NDF :3633494.8/45

All: 0.005+/-0.000 χ^2/NDF : 6874438.8/86

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.810+/-0.000

χ^2/NDF : 32402533284.5/17

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

Right: 0.727+/-0.000

χ^2/NDF : 76300123360.9/38

Right Out: 0.681+/-0.000

χ^2/NDF : 42291642997.2/20

In: 0.174+/-0.000

χ^2/NDF : 528427656477.1/40

Out: 0.172+/-0.000

χ^2/NDF : 654678683011.6/45

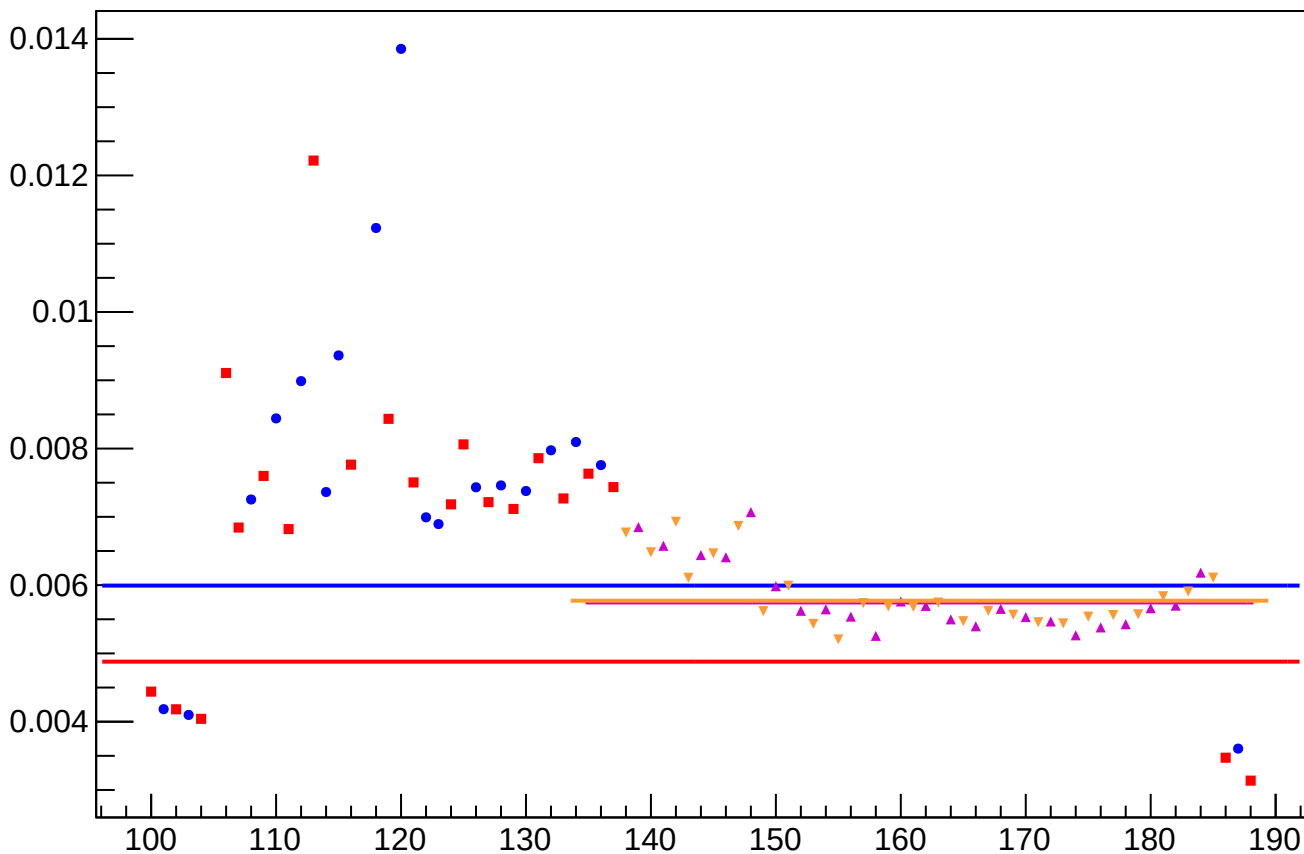
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.173+/-0.000

χ^2/NDF : 1183107001617.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1352091.1/17

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2191145.9/20

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

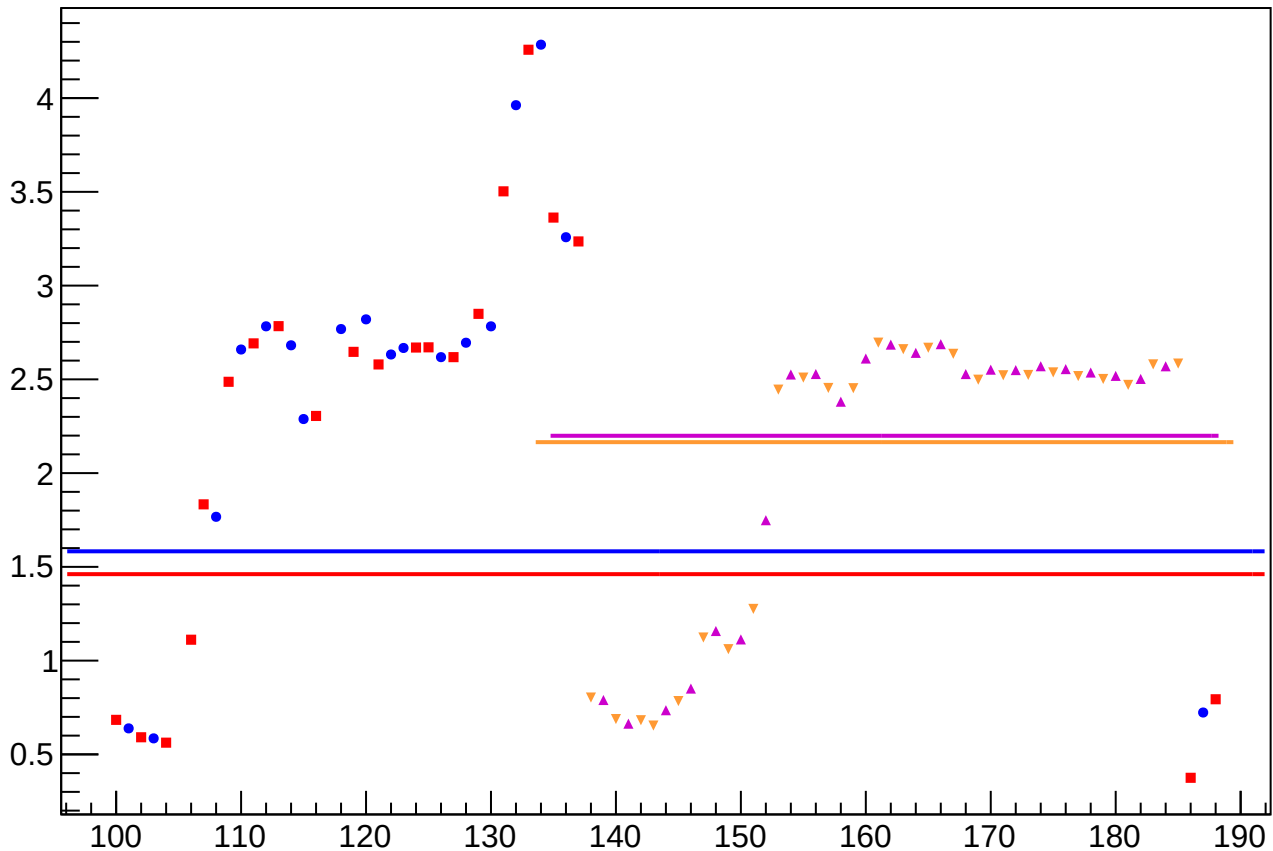
Right: 0.005+/-0.000 χ^2/NDF : 3782378.1/38

In: 0.006+/-0.000 χ^2/NDF :1570159.0/40

Out: 0.005+/-0.000 χ^2/NDF :2651589.3/45

All: 0.006+/-0.000 χ^2/NDF : 4303207.6/86

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.583+/-0.000 χ^2/NDF : 206849923995.8/17

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.461+/-0.000 χ^2/NDF : 265826410558.0/20

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

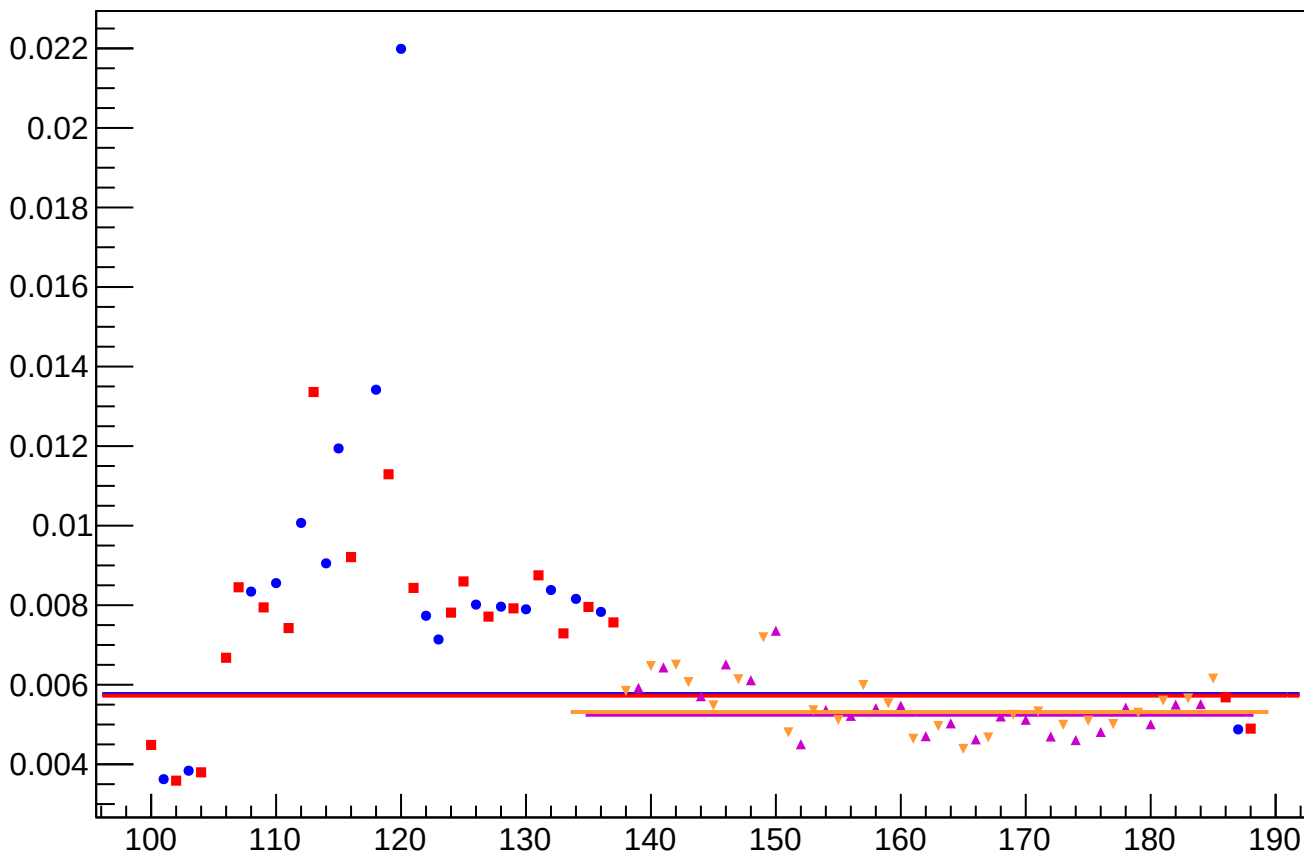
Right: 1.513+/-0.000 χ^2/NDF : 473939150788.8/38

In: 2.072+/-0.000 χ^2/NDF : 504777430425.1/40

Out: 1.987+/-0.000 χ^2/NDF : 632410318509.1/45

All: 2.028+/-0.000 χ^2/NDF : 1139943047146.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1920303.3/17

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1738466.9/20

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

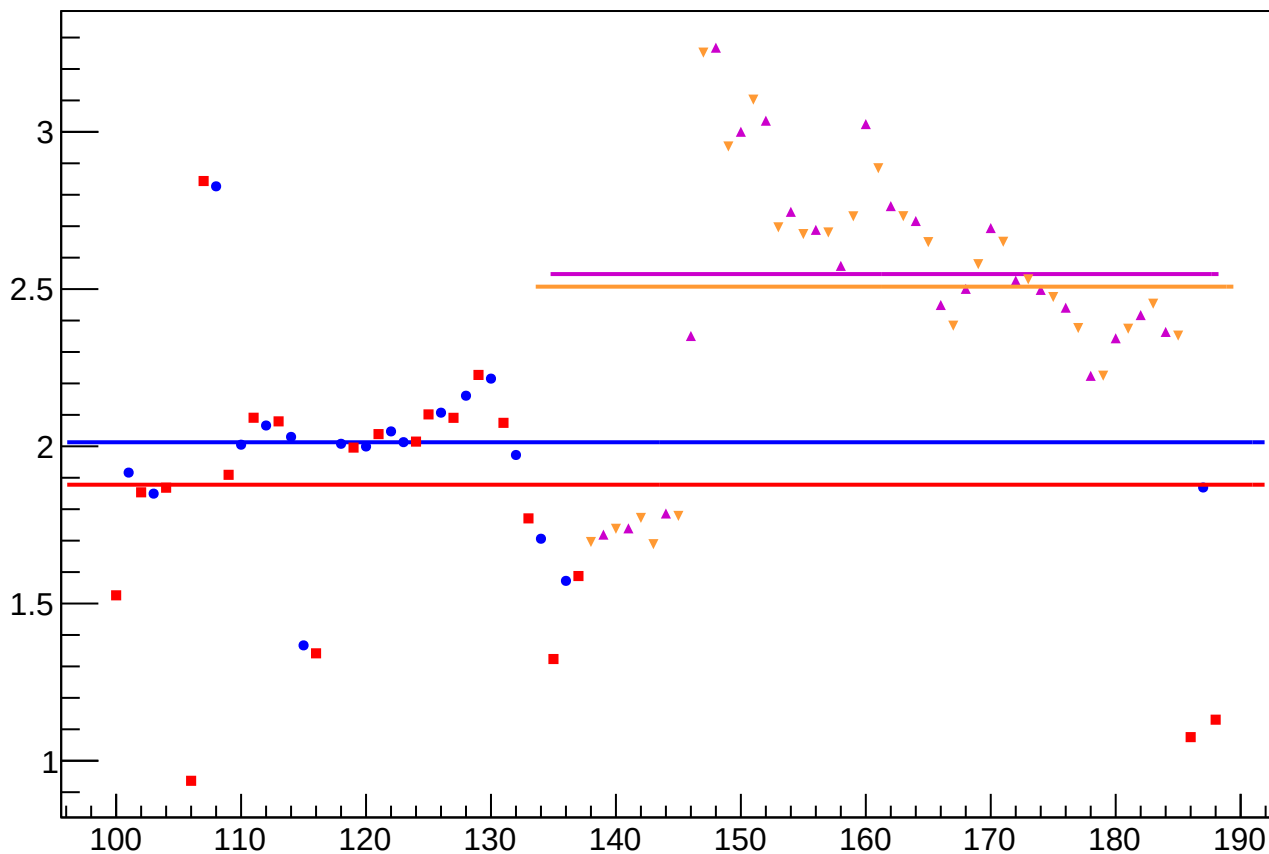
Right: 0.006+/-0.000 χ^2/NDF : 3659028.8/38

In: 0.005+/-0.000 χ^2/NDF : 2409987.6/40

Out: 0.005+/-0.000 χ^2/NDF : 2187710.1/45

All: 0.005+/-0.000 χ^2/NDF : 4601062.4/86

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.013 $\pm$ 0.000 χ^2 /NDF: 12233446558.1/17

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.878 $\pm$ 0.000 χ^2 /NDF: 29613634151.9/20

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

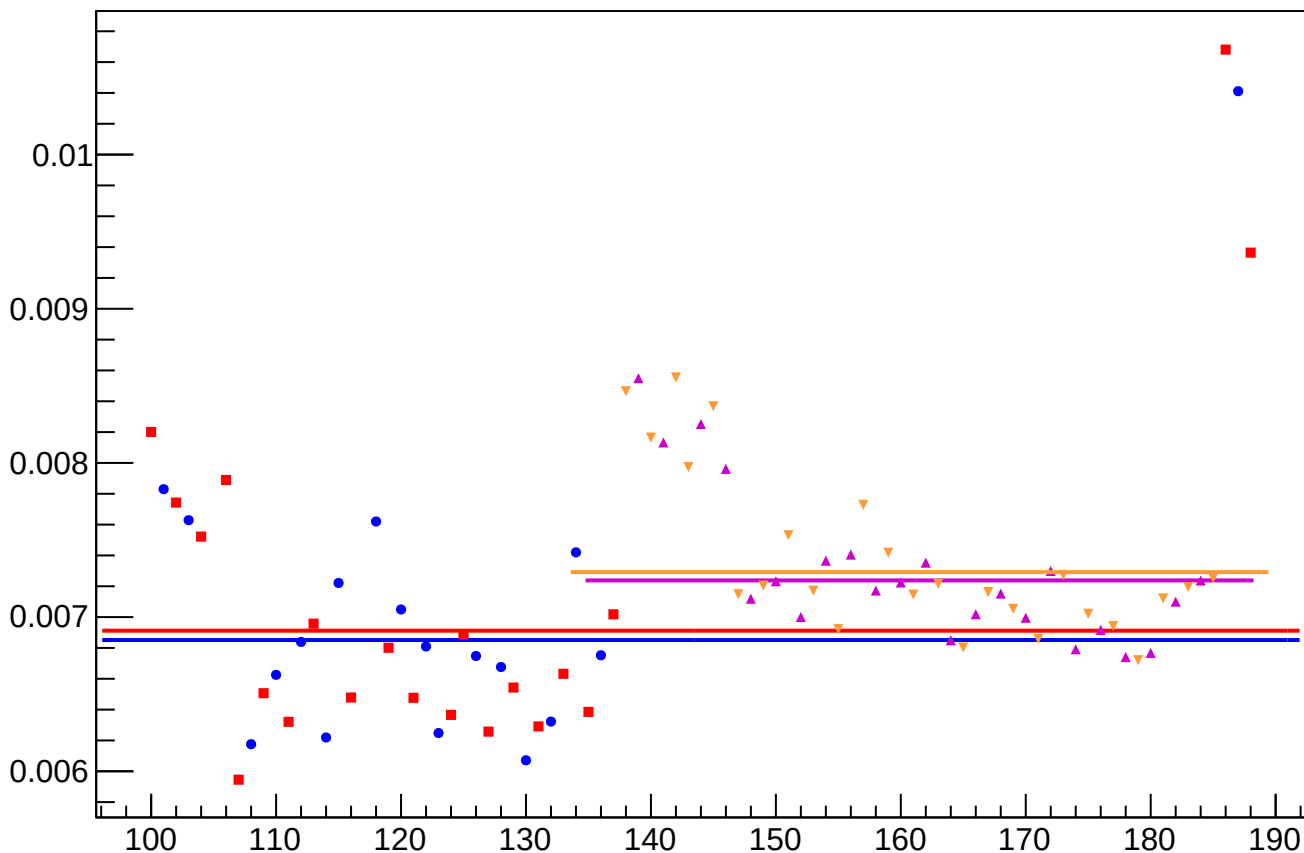
Right: 1.939 $\pm$ 0.000 χ^2 /NDF: 43214309501.0/38

In: 2.386 $\pm$ 0.000 χ^2 /NDF: 85024973653.7/40

Out: 2.297 $\pm$ 0.000 χ^2 /NDF: 125514425889.5/45

All: 2.340 $\pm$ 0.000 χ^2 /NDF: 212395322500.3

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 109151.9/17

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 301541.8/20

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

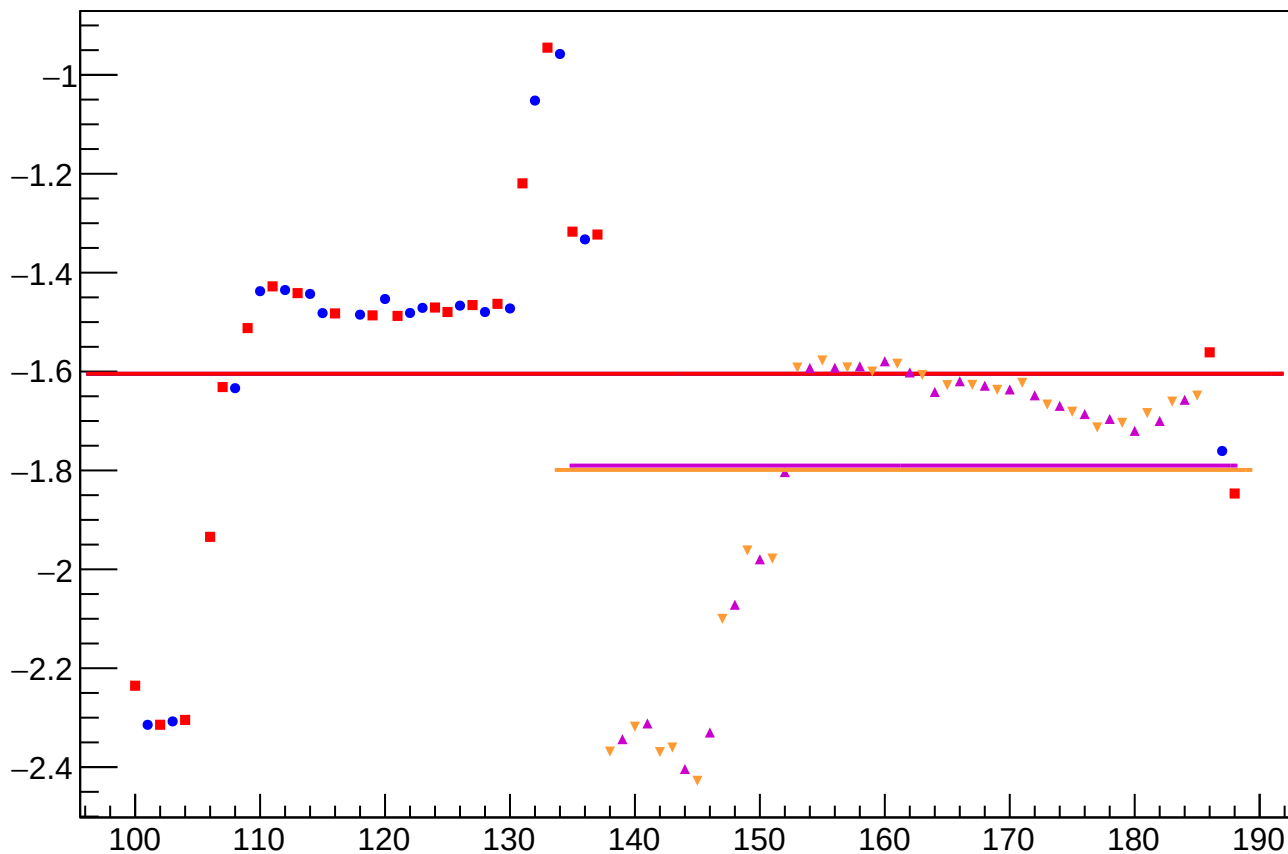
Right: 0.007+/-0.000 χ^2/NDF : 411244.7/38

In: 0.007+/-0.000 χ^2/NDF :263072.8/40

Out: 0.007+/-0.000 χ^2/NDF :473965.1/45

All: 0.007+/-0.000 χ^2/NDF : 737942.9/86

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.605+/-0.000 χ^2/NDF : 140509803030.3/17

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.604+/-0.000 χ^2/NDF : 149528863952.5/20

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

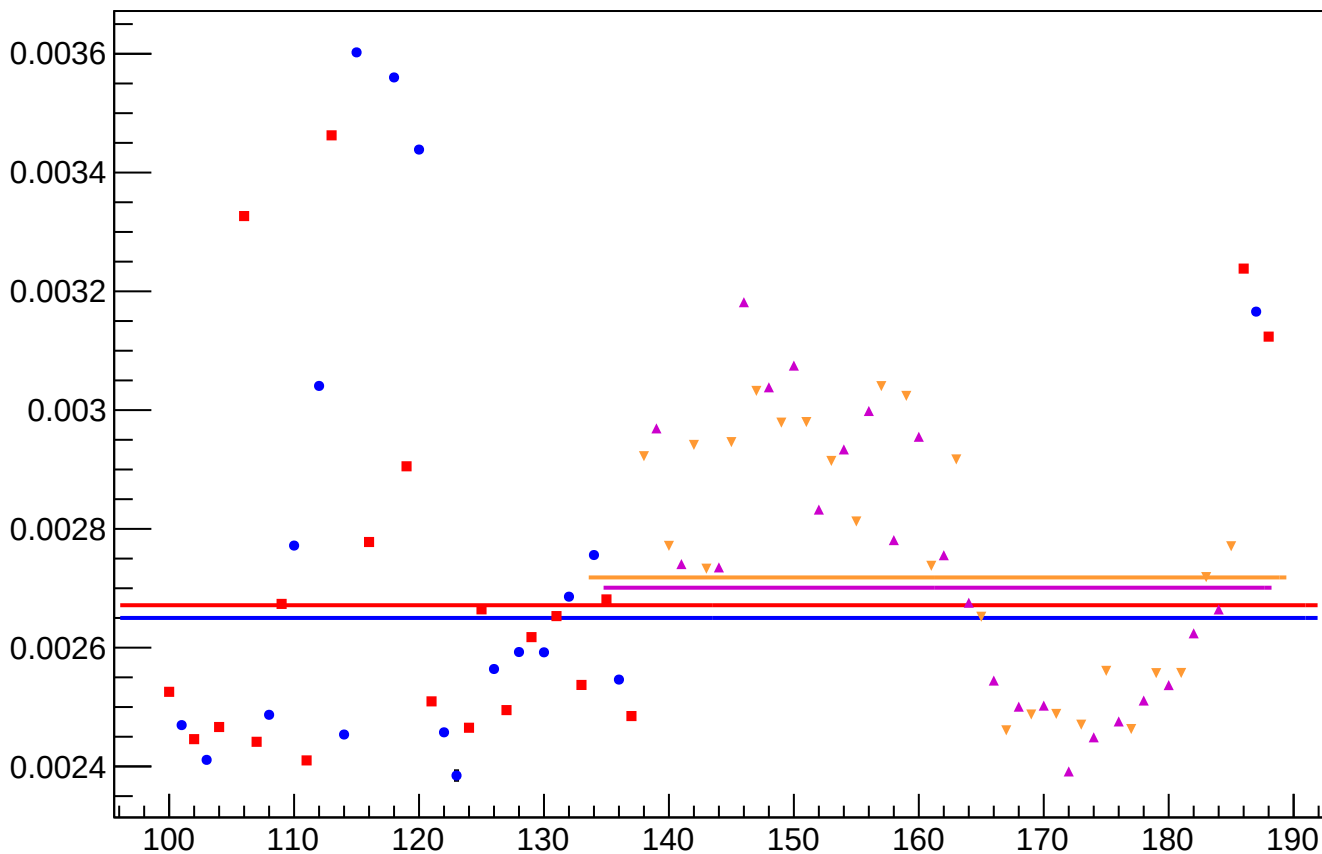
Right: -1.604+/-0.000 χ^2/NDF : 290038678021.3/38

In: -1.737+/-0.000 χ^2/NDF : 322553535109.9/40

Out: -1.737+/-0.000 χ^2/NDF : 363334821267.4/45

All: -1.737+/-0.000 χ^2/NDF : 685888359446.0

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 159319.7/17

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 171200.9/20

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

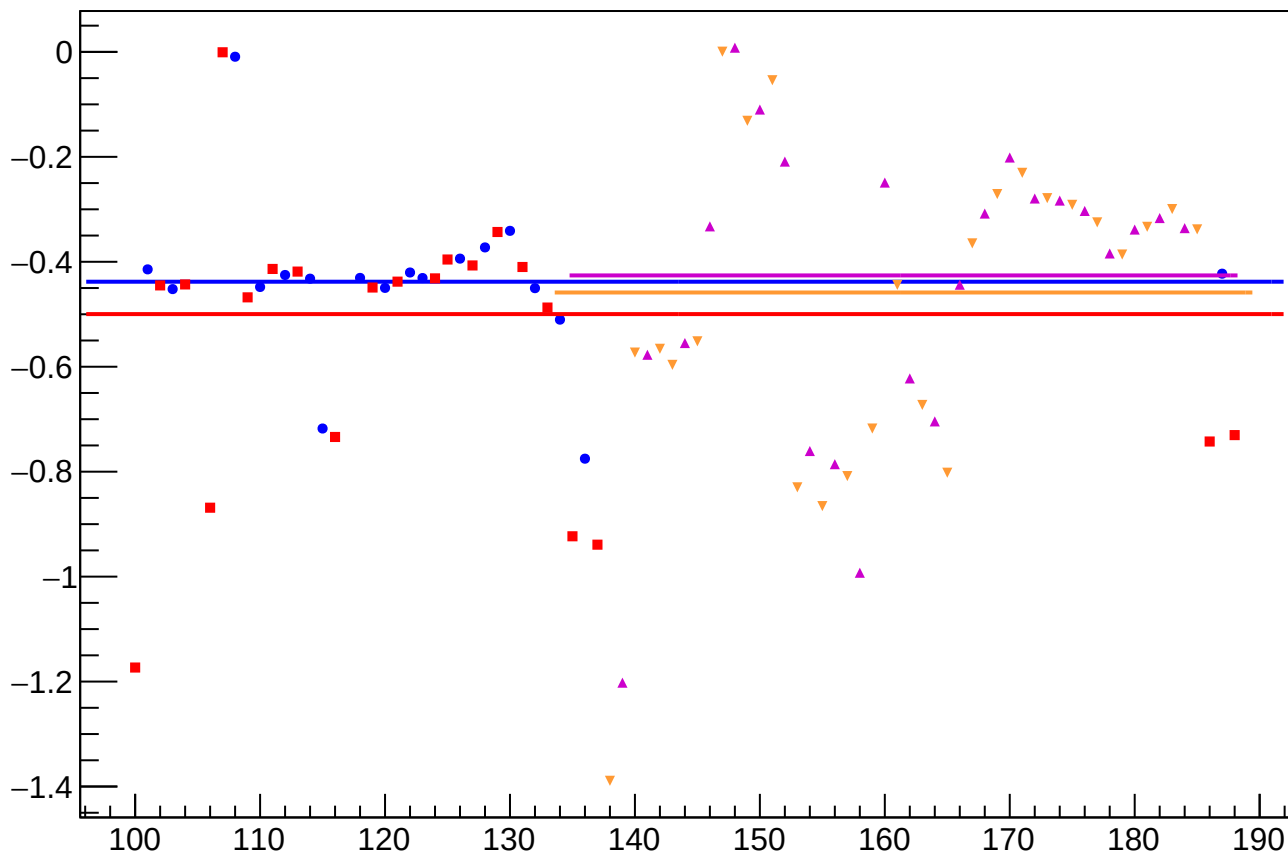
Right: 0.003+/-0.000 χ^2/NDF : 330977.9/38

In: 0.003+/-0.000 χ^2/NDF :383015.3/40

Out: 0.003+/-0.000 χ^2/NDF :374188.4/45

All: 0.003+/-0.000 χ^2/NDF : 758162.8/86

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 $\pm$ 0.000 χ^2/NDF : 1461298392.9/17

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.500 $\pm$ 0.000 χ^2/NDF : 2940978108.3/20

Left In: -0.426 $\pm$ 0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443 $\pm$ 0.000 χ^2/NDF : 18401926676.9/47

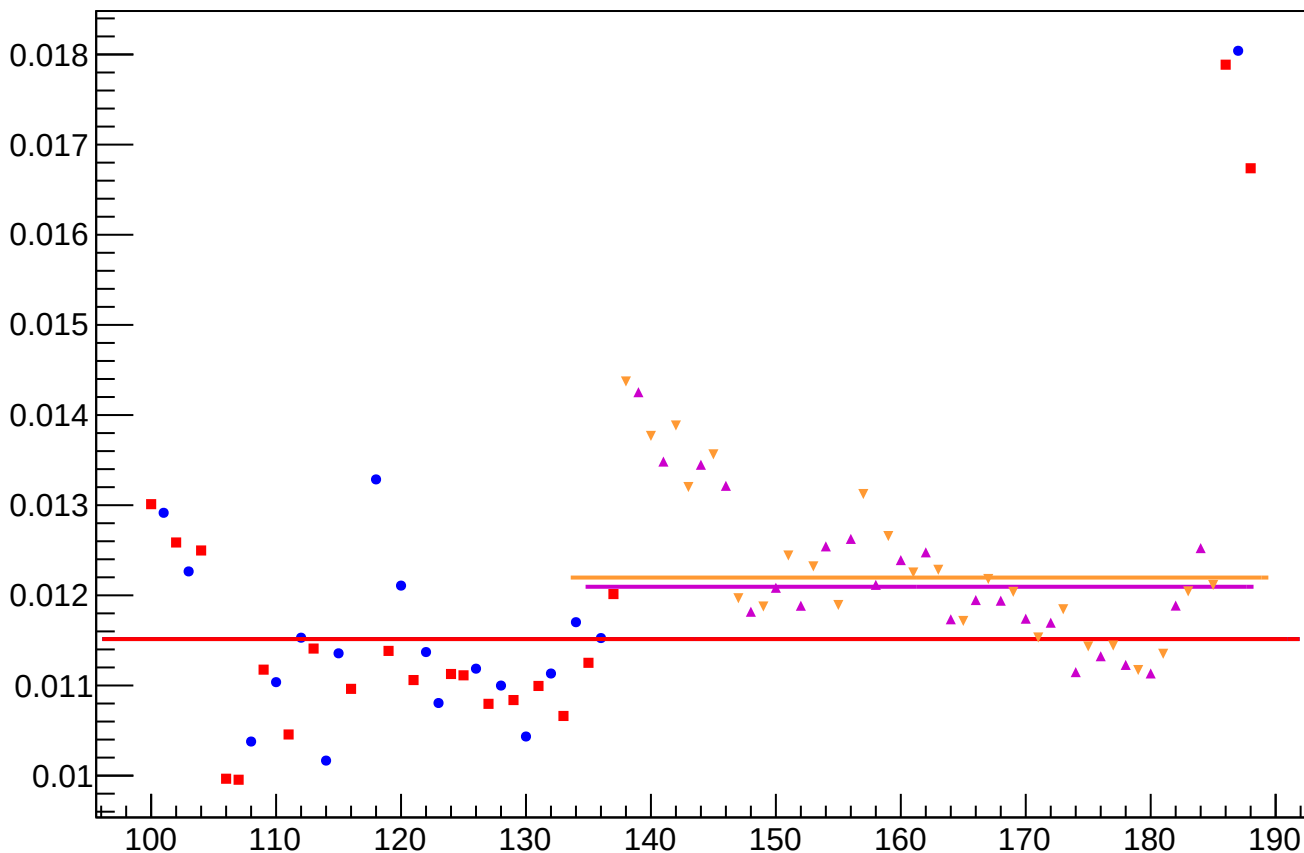
Right: -0.472 $\pm$ 0.000 χ^2/NDF : 4505852612.1/38

In: -0.430 $\pm$ 0.000 χ^2/NDF : 9890483248.1/40

Out: -0.472 $\pm$ 0.000 χ^2/NDF : 12925127918.9/45

All: -0.452 $\pm$ 0.000 χ^2/NDF : 22971696324.9/...

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 100633.6/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 334693.2/20

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 270367.5/47

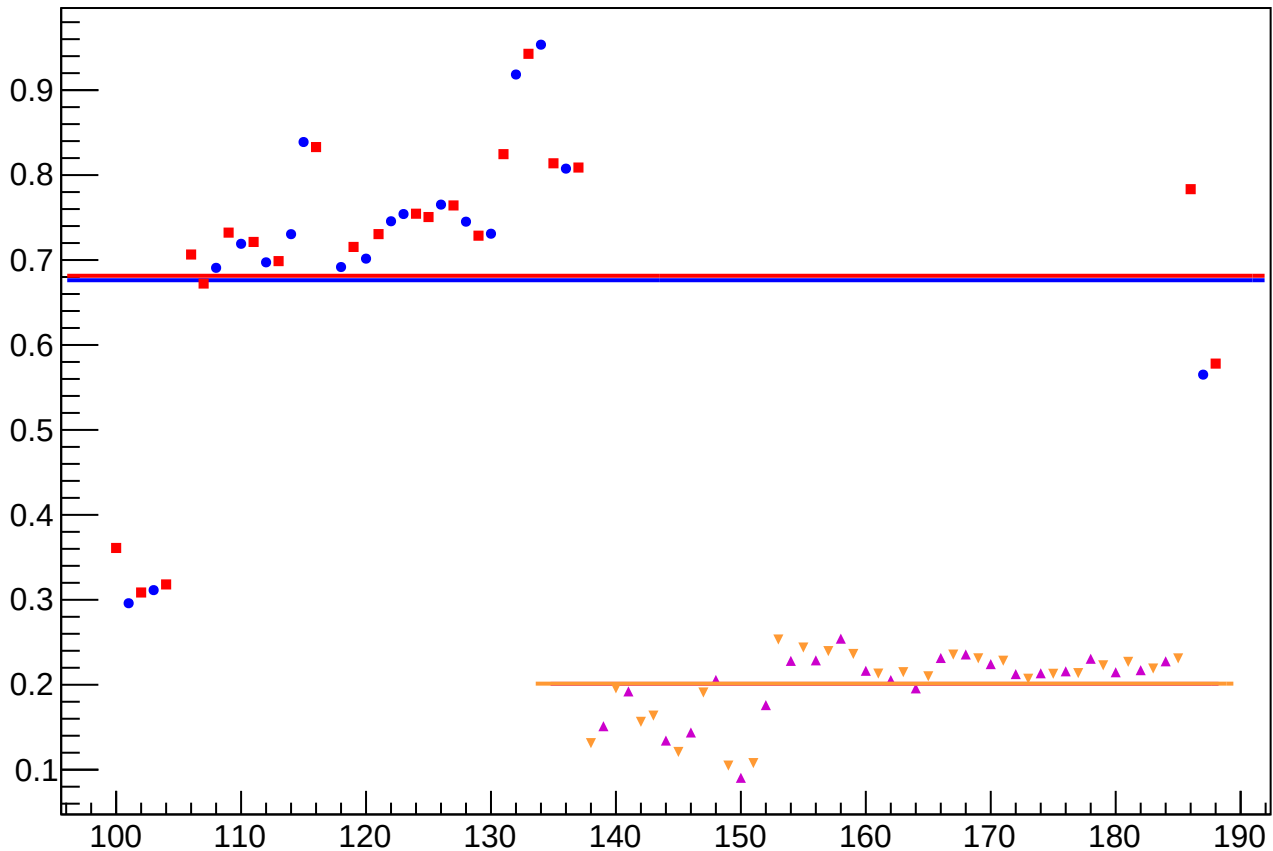
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 435326.8/38

In: 0.012 $\pm$ 0.000 χ^2 /NDF:251117.6/40

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:513741.0/45

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 765245.2/86

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.676+/-0.000 χ^2/NDF : 38708343978.8/17

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.681+/-0.000 χ^2/NDF : 37071423491.3/20

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

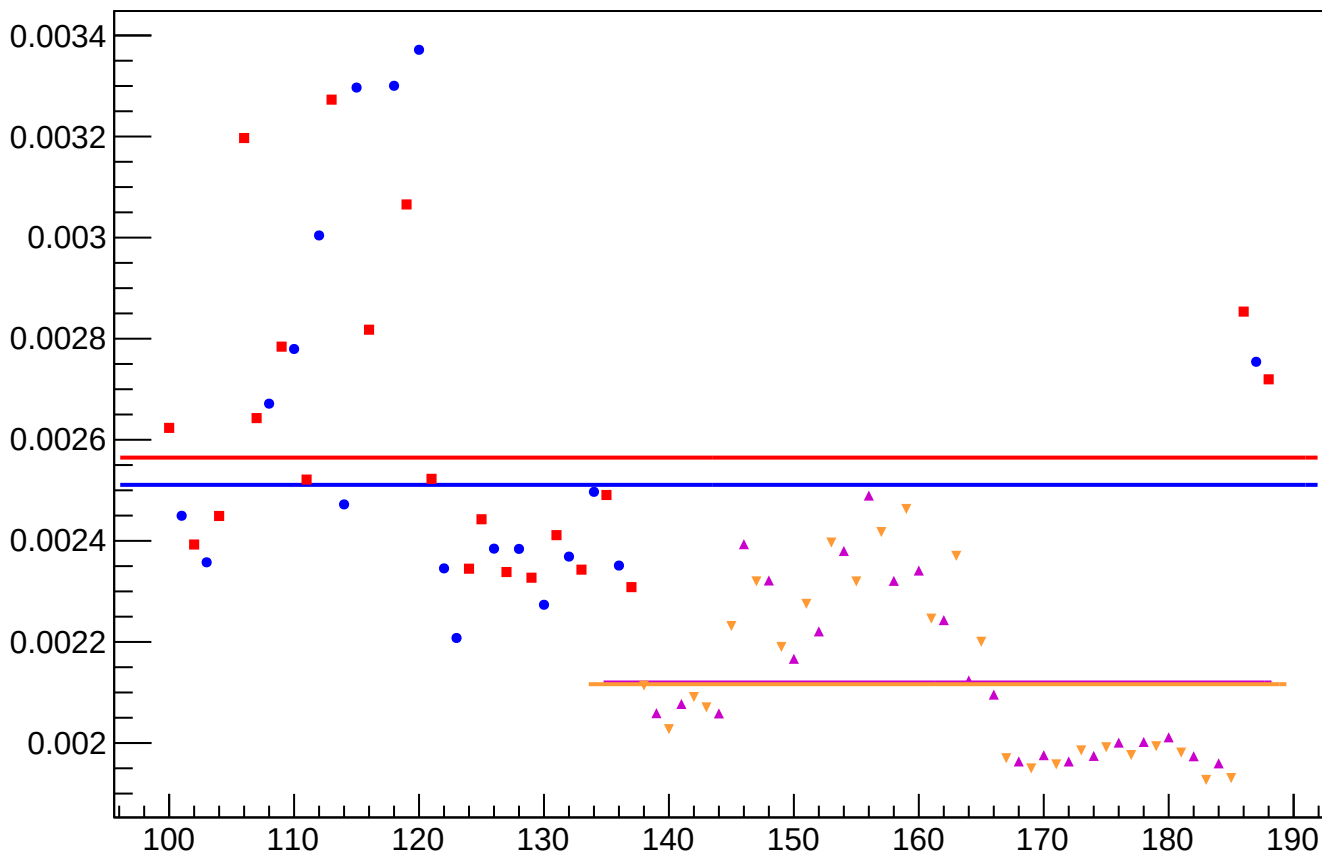
Right: 0.679+/-0.000 χ^2/NDF : 75795136610.0/38

In: 0.302+/-0.000 χ^2/NDF : 227155316003.5/40

Out: 0.311+/-0.000 χ^2/NDF : 257799597480.6/45

All: 0.307+/-0.000 χ^2/NDF : 485169332449.7

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 176539.4/17

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 146724.3/20

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

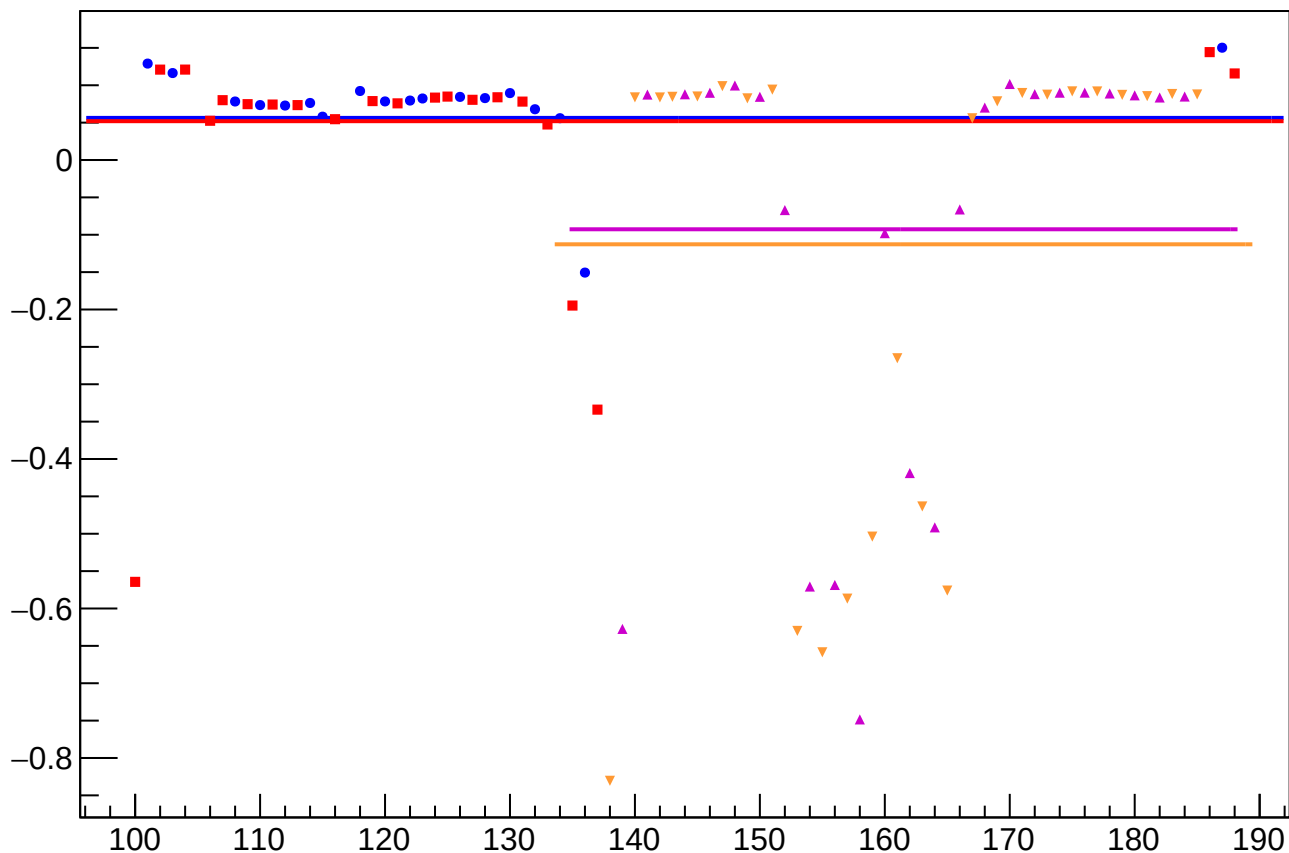
Right: 0.003+/-0.000 χ^2/NDF : 326486.3/38

In: 0.002+/-0.000 χ^2/NDF :613301.2/40

Out: 0.002+/-0.000 χ^2/NDF :743737.2/45

All: 0.002+/-0.000 χ^2/NDF : 1358352.5/86

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 427231839.7/17

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.054+/-0.000

χ^2/NDF : 1276155391.6/38

Right Out: 0.052+/-0.000

χ^2/NDF : 848204962.3/20

In: -0.044+/-0.000

χ^2/NDF : 12489206317.8/40

Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

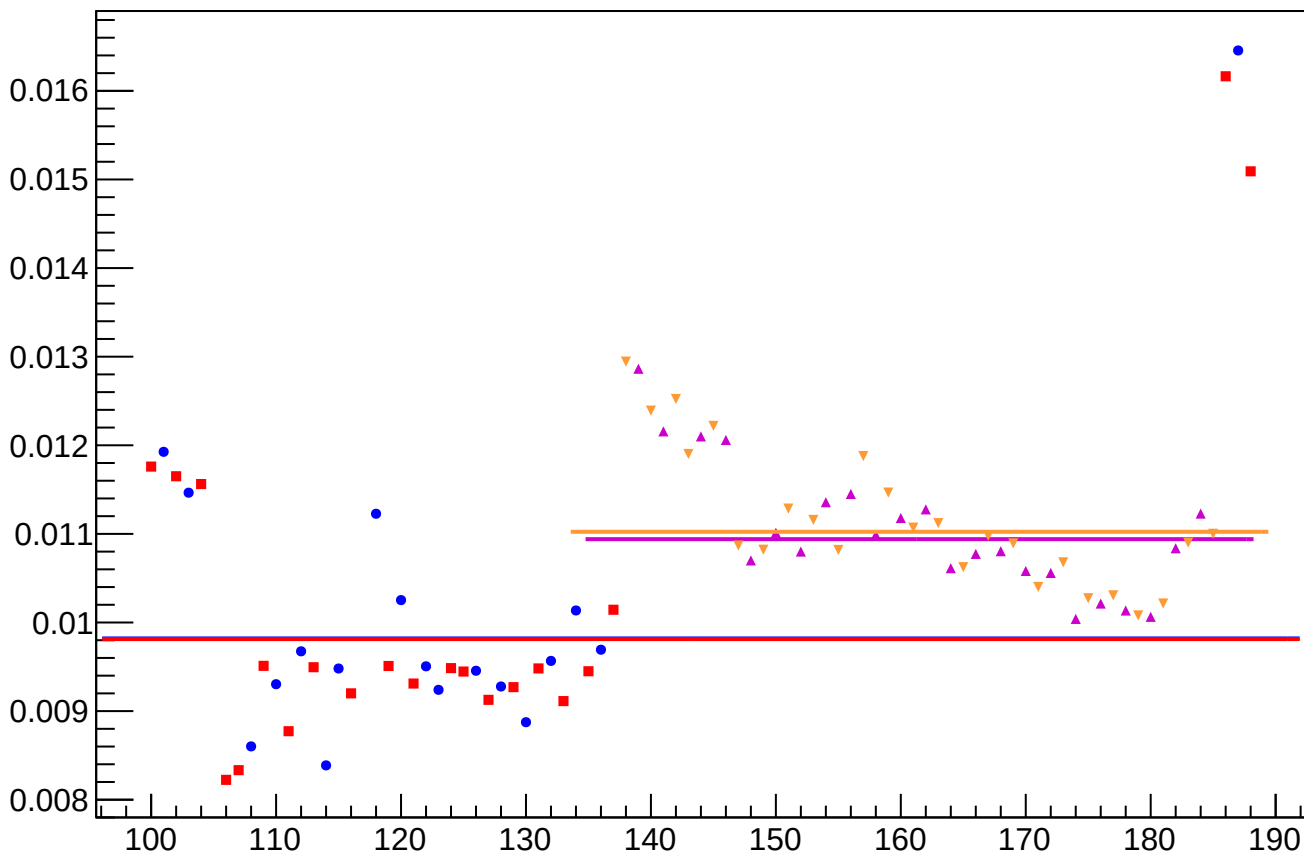
Out: -0.053+/-0.000

χ^2/NDF : 15939556748.6/45

All: -0.049+/-0.000

χ^2/NDF : 28438027715.0/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 160728.5/17

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.010+/-0.000 χ^2/NDF : 453828.4/20

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

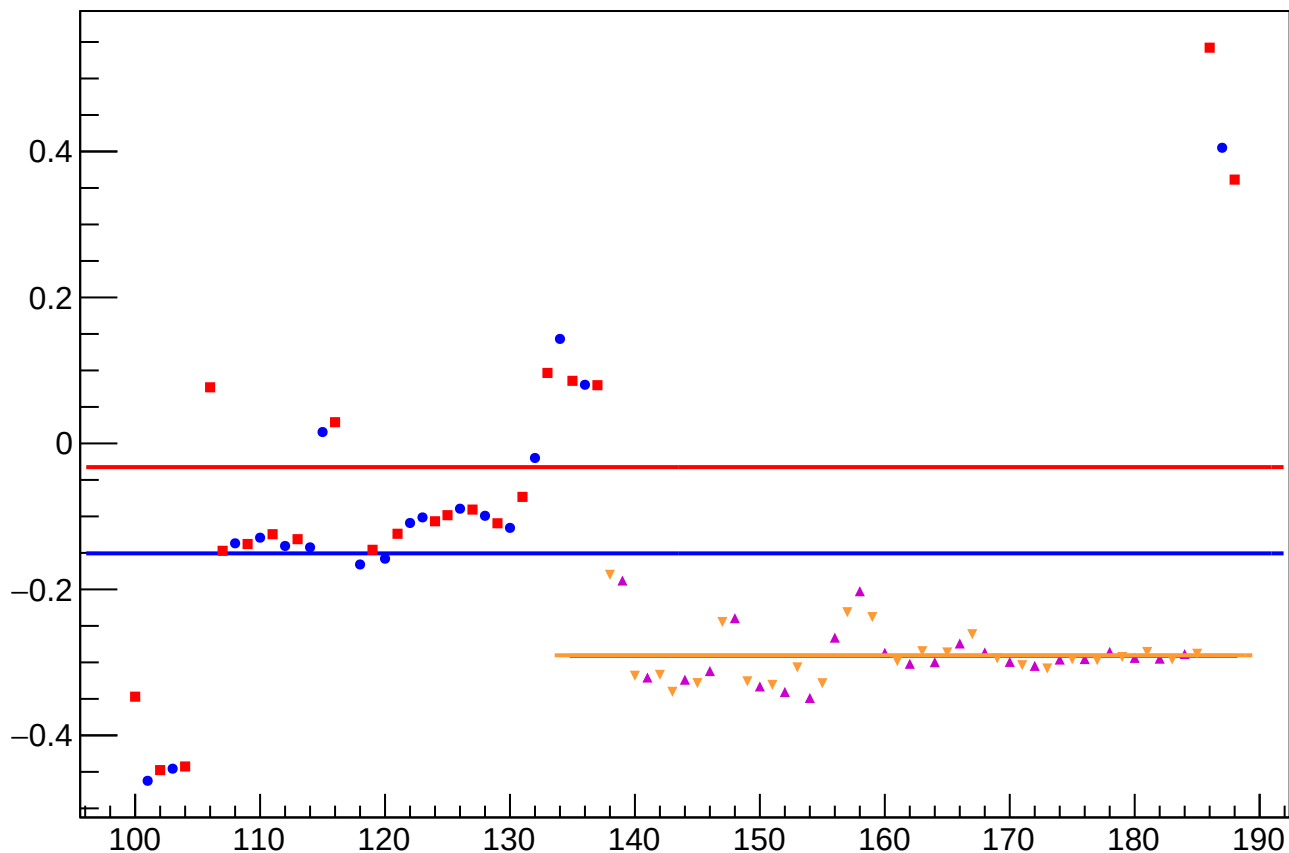
Right: 0.010+/-0.000 χ^2/NDF : 614560.6/38

In: 0.011+/-0.000 χ^2/NDF :403870.9/40

Out: 0.011+/-0.000 χ^2/NDF :749250.1/45

All: 0.011+/-0.000 χ^2/NDF : 1153151.7/86

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.151 ± 0.000 $\chi^2/\text{NDF}: 15433303653.5/17$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.032 ± 0.000 $\chi^2/\text{NDF}: 33075895611.5/20$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

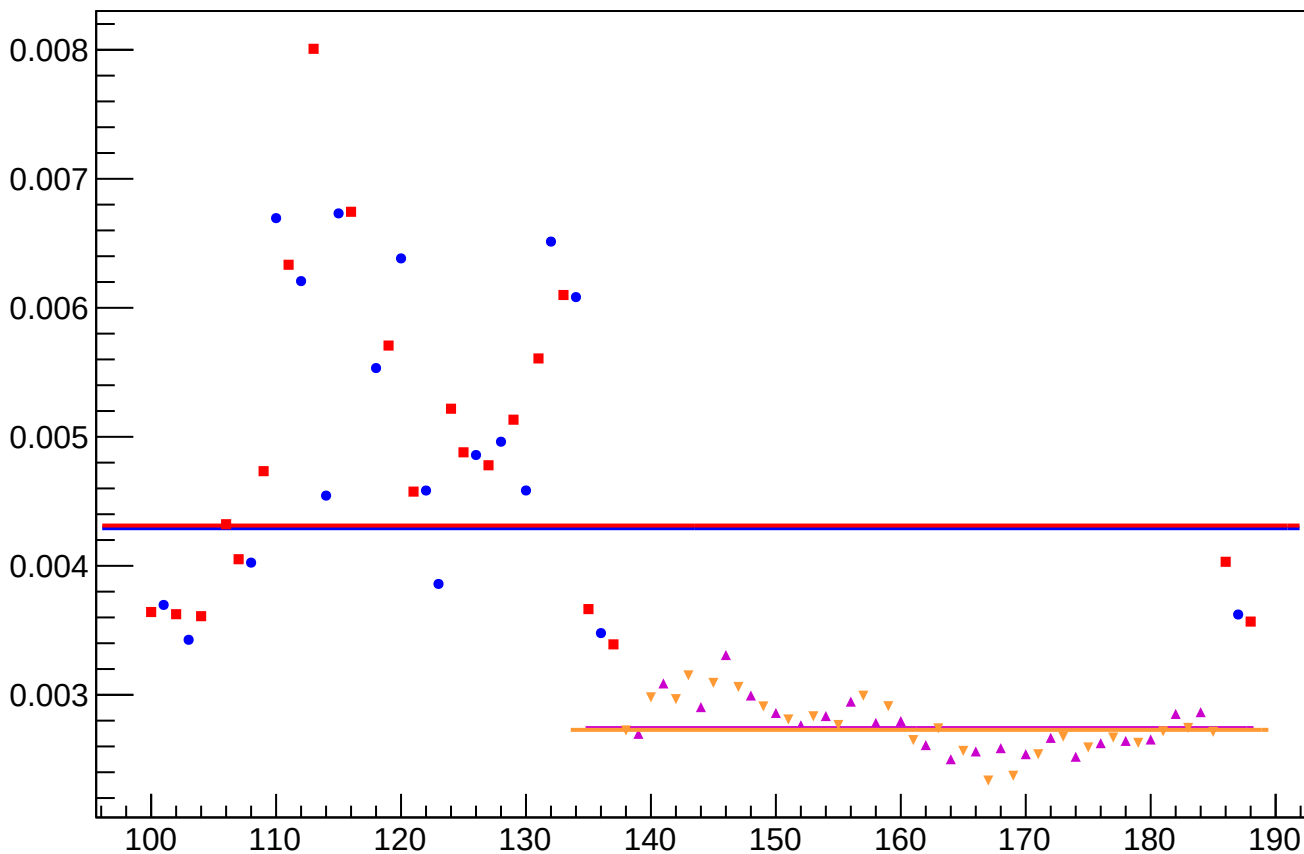
Right: -0.085 ± 0.000 $\chi^2/\text{NDF}: 50981883970.4/38$

In: -0.273 ± 0.000 $\chi^2/\text{NDF}: 24077444138.2/40$

Out: -0.253 ± 0.000 $\chi^2/\text{NDF}: 58442600084.7/45$

All: -0.263 ± 0.000 $\chi^2/\text{NDF}: 83039264227.2/100$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 627340.2/17

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 734963.2/20

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

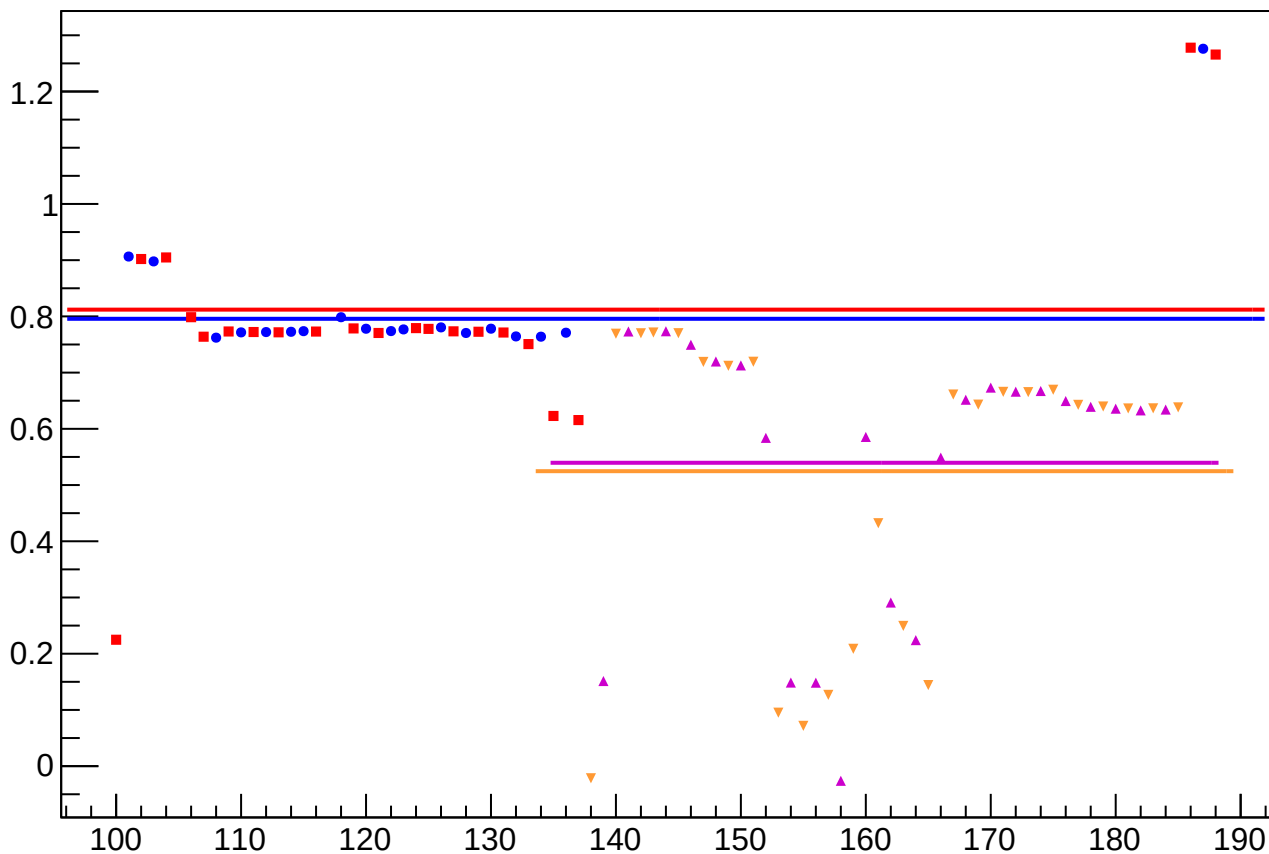
Right: 0.004+/-0.000 χ^2/NDF : 1362454.6/38

In: 0.003+/-0.000 χ^2/NDF :2119104.6/40

Out: 0.003+/-0.000 χ^2/NDF :2638636.1/45

All: 0.003+/-0.000 χ^2/NDF : 4758422.5/86

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.796 $\pm$ 0.000 χ^2 /NDF: 235199909.1/17

Left Out: 0.525 $\pm$ 0.000 χ^2 /NDF:9623503169.9/24

Right Out: 0.812 $\pm$ 0.000 χ^2 /NDF: 1679116087.1/20

Left In: 0.540 $\pm$ 0.000 χ^2 /NDF:7860539135.5/22

Left: 0.532 $\pm$ 0.000 χ^2 /NDF: 17500739852.2/47

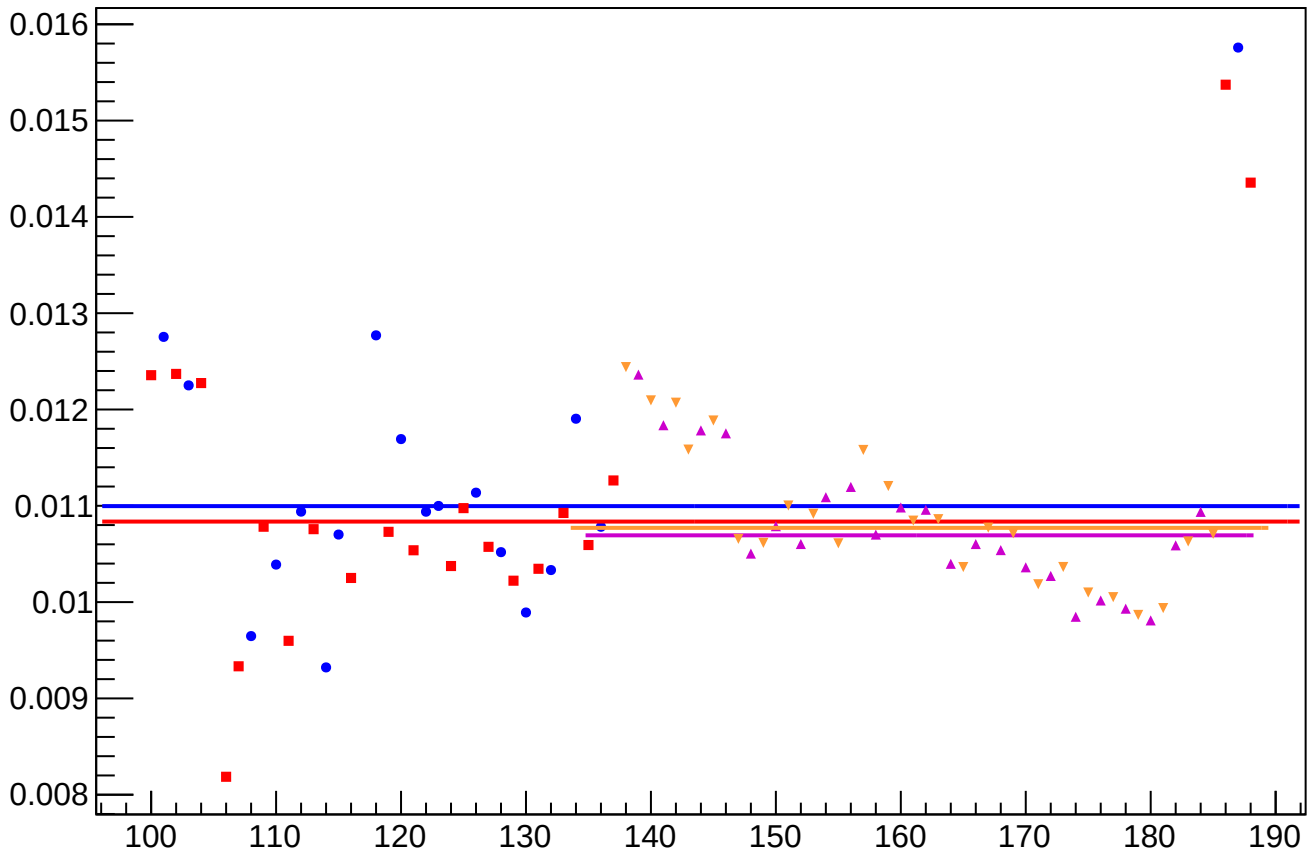
Right: 0.805 $\pm$ 0.000 χ^2 /NDF: 1922349542.7/38

In: 0.609 $\pm$ 0.000 χ^2 /NDF:10685048884.7/40

Out: 0.613 $\pm$ 0.000 χ^2 /NDF:15194642401.9/45

All: 0.611 $\pm$ 0.000 χ^2 /NDF: 25881881878.8/86

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 123273.9/17

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 300831.6/20

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

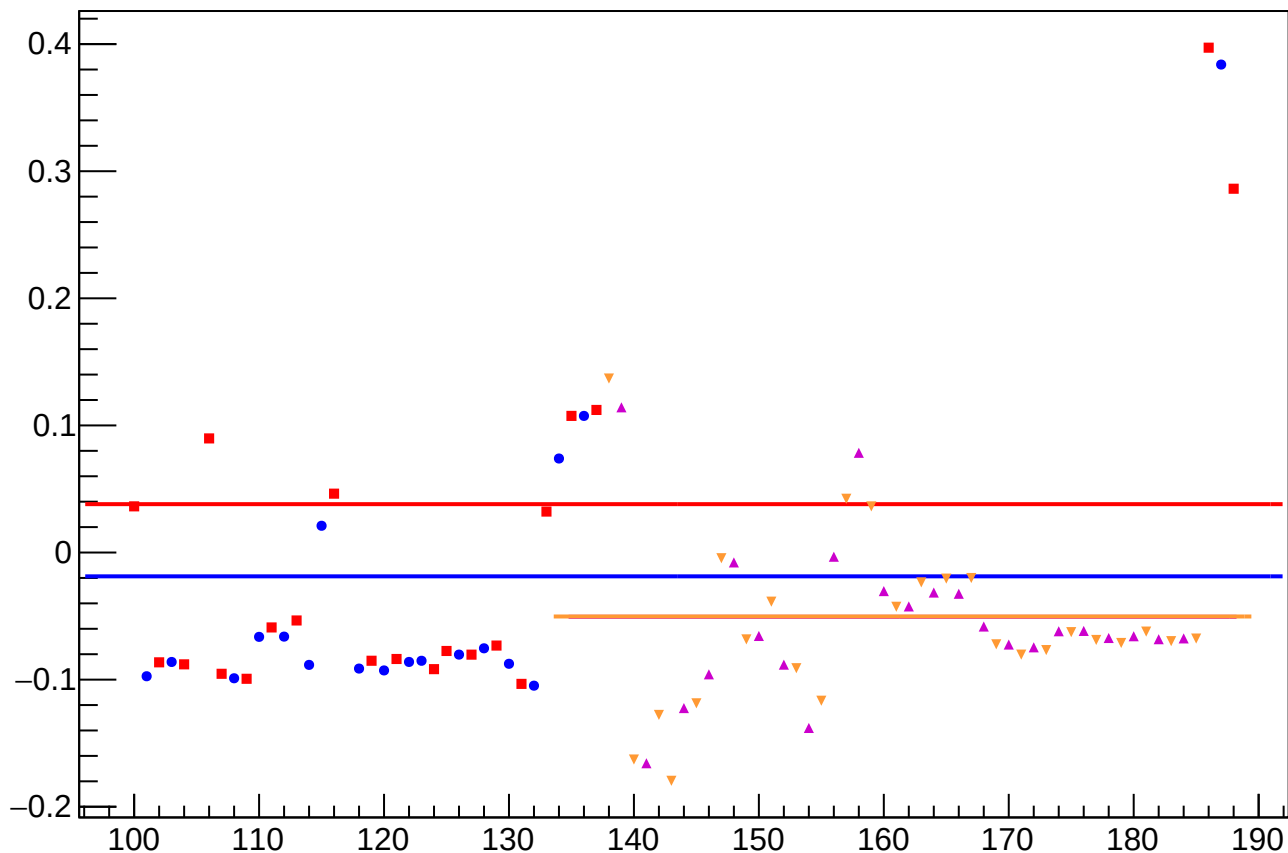
Right: 0.011+/-0.000 χ^2/NDF : 425659.9/38

In: 0.011+/-0.000 χ^2/NDF :249814.6/40

Out: 0.011+/-0.000 χ^2/NDF :432864.2/45

All: 0.011+/-0.000 χ^2/NDF : 682730.6/86

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.019+/-0.000 χ^2/NDF : 3717095572.0/17

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.038+/-0.000 χ^2/NDF : 8943980551.0/20

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

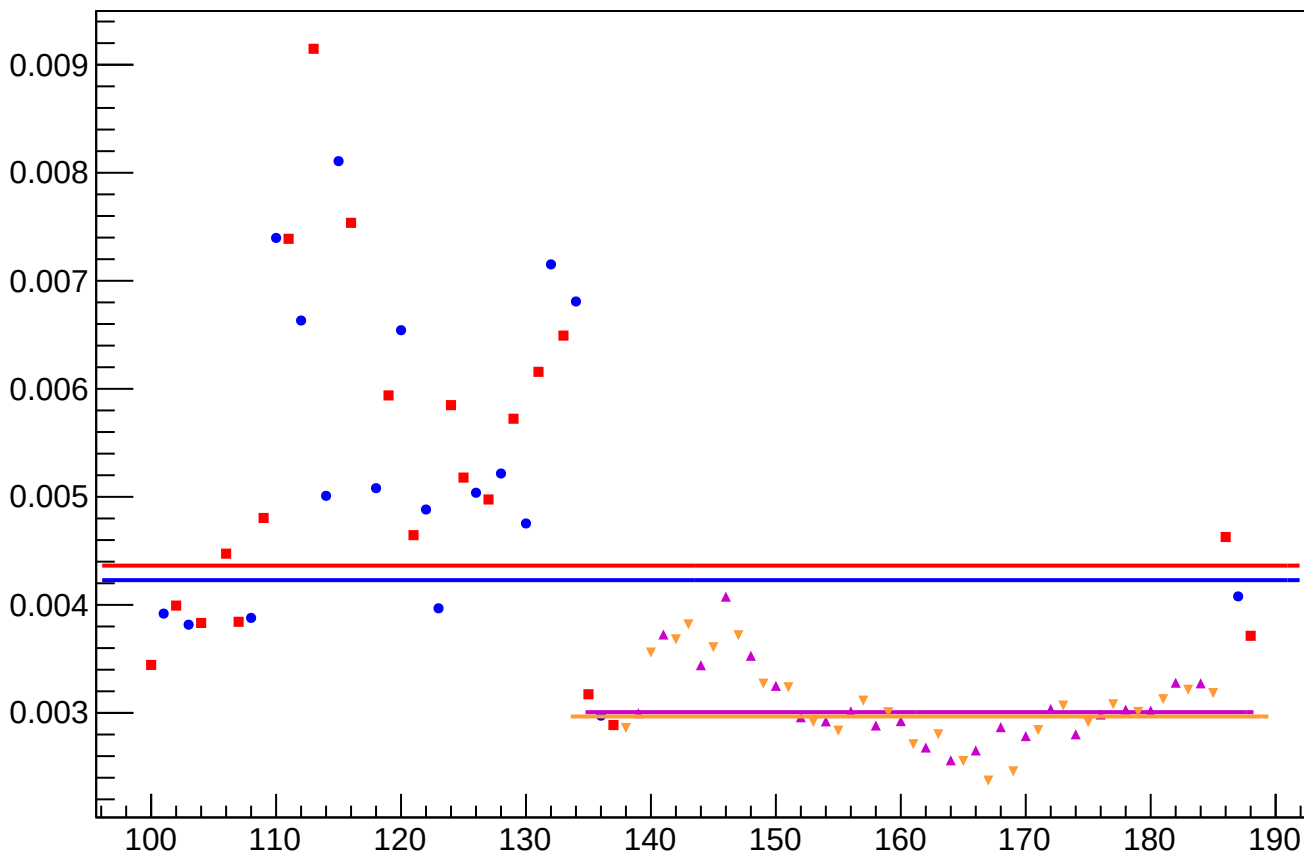
Right: 0.012+/-0.000 χ^2/NDF : 13202303927.0/38

In: -0.046+/-0.000 χ^2/NDF : 10115010421.7/40

Out: -0.036+/-0.000 χ^2/NDF : 18606531373.6/45

All: -0.041+/-0.000 χ^2/NDF : 28819556339.8/...

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 877694.5/17

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1025832.1/20

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

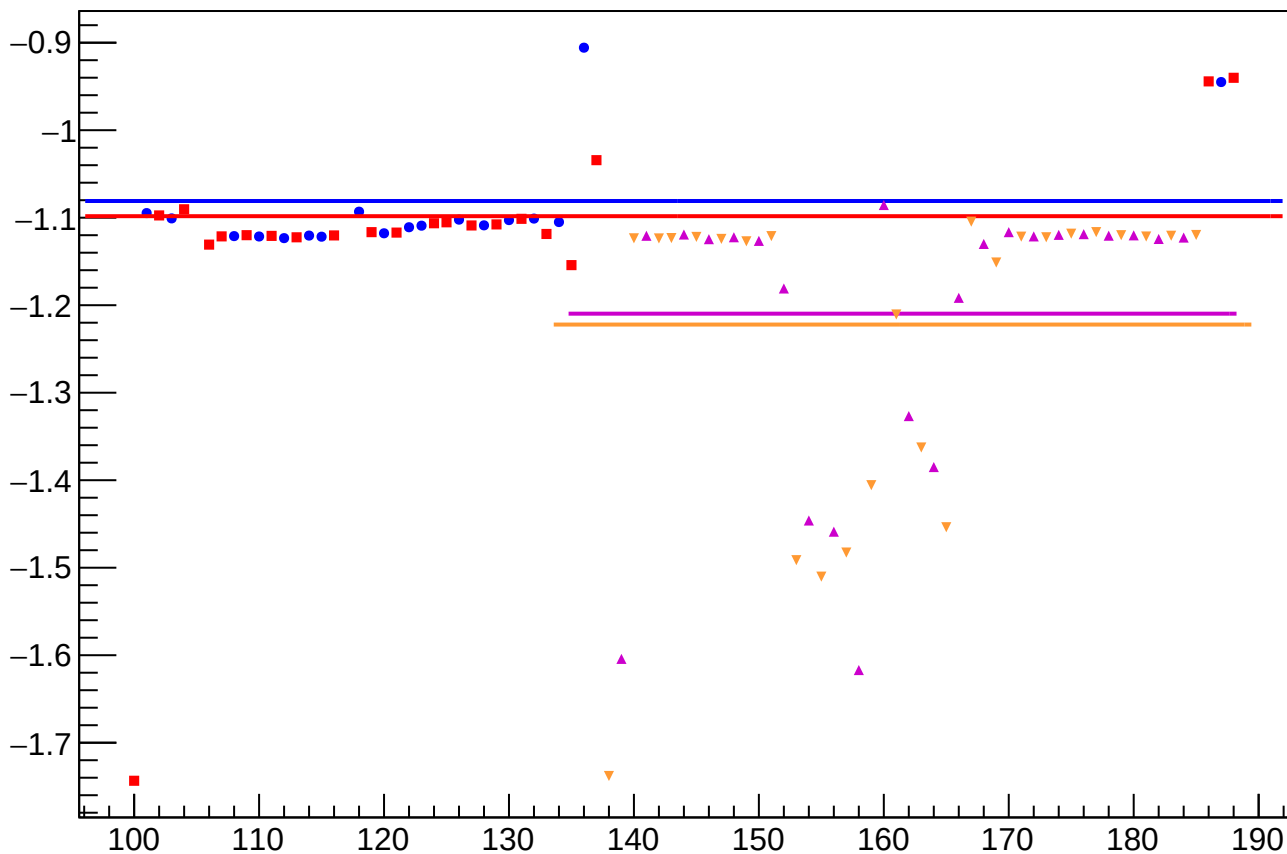
Right: 0.004+/-0.000 χ^2/NDF : 1909593.1/38

In: 0.003+/-0.000 χ^2/NDF :1999125.5/40

Out: 0.003+/-0.000 χ^2/NDF :2718690.9/45

All: 0.003+/-0.000 χ^2/NDF : 4717823.7/86

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.081+/-0.000 χ^2/NDF : 216253415.5/17

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.098+/-0.000 χ^2/NDF : 428599784.7/20

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

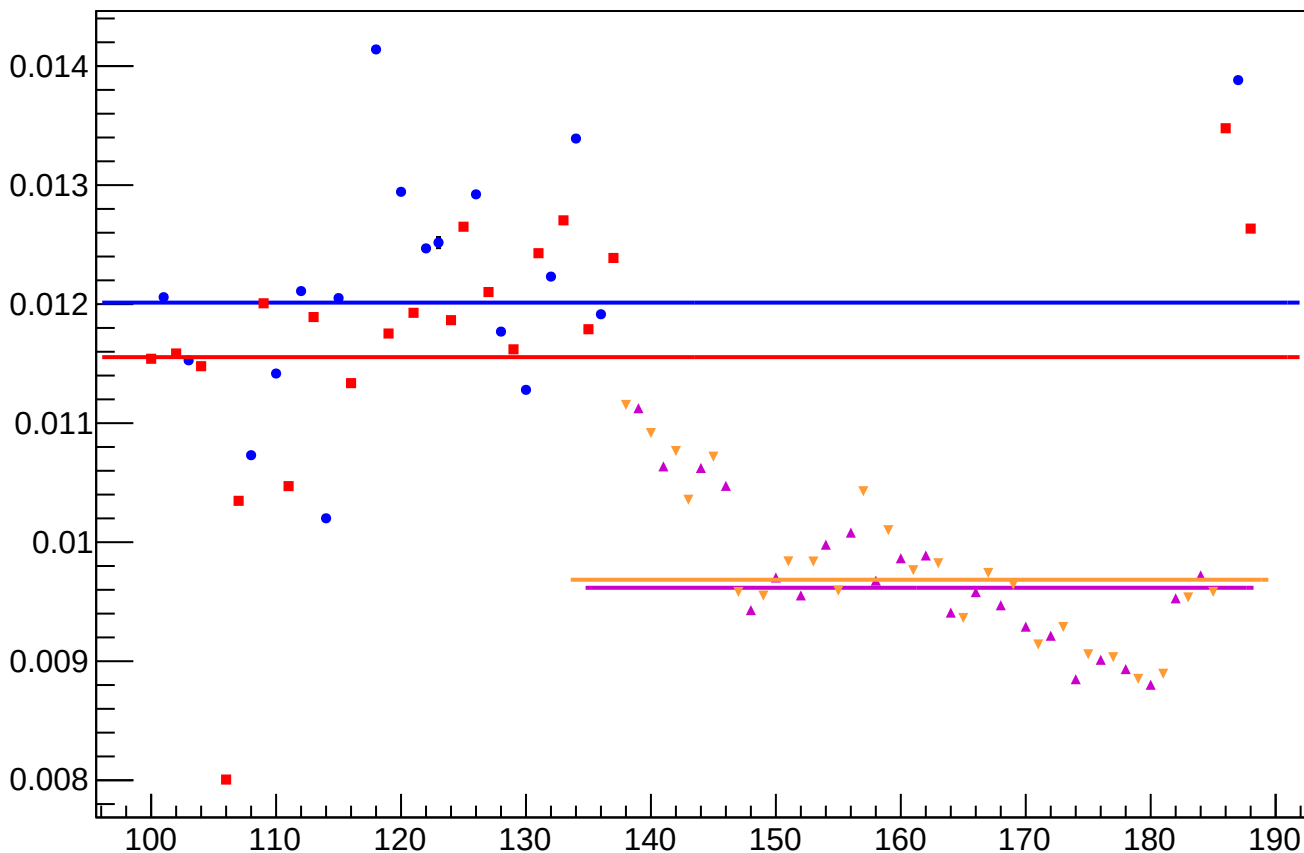
Right: -1.091+/-0.000 χ^2/NDF : 652646835.1/38

In: -1.184+/-0.000 χ^2/NDF : 5320535621.1/40

Out: -1.192+/-0.000 χ^2/NDF : 6408592232.5/45

All: -1.188+/-0.000 χ^2/NDF : 11737456372.0/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 63903.5/17

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 183547.5/20

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

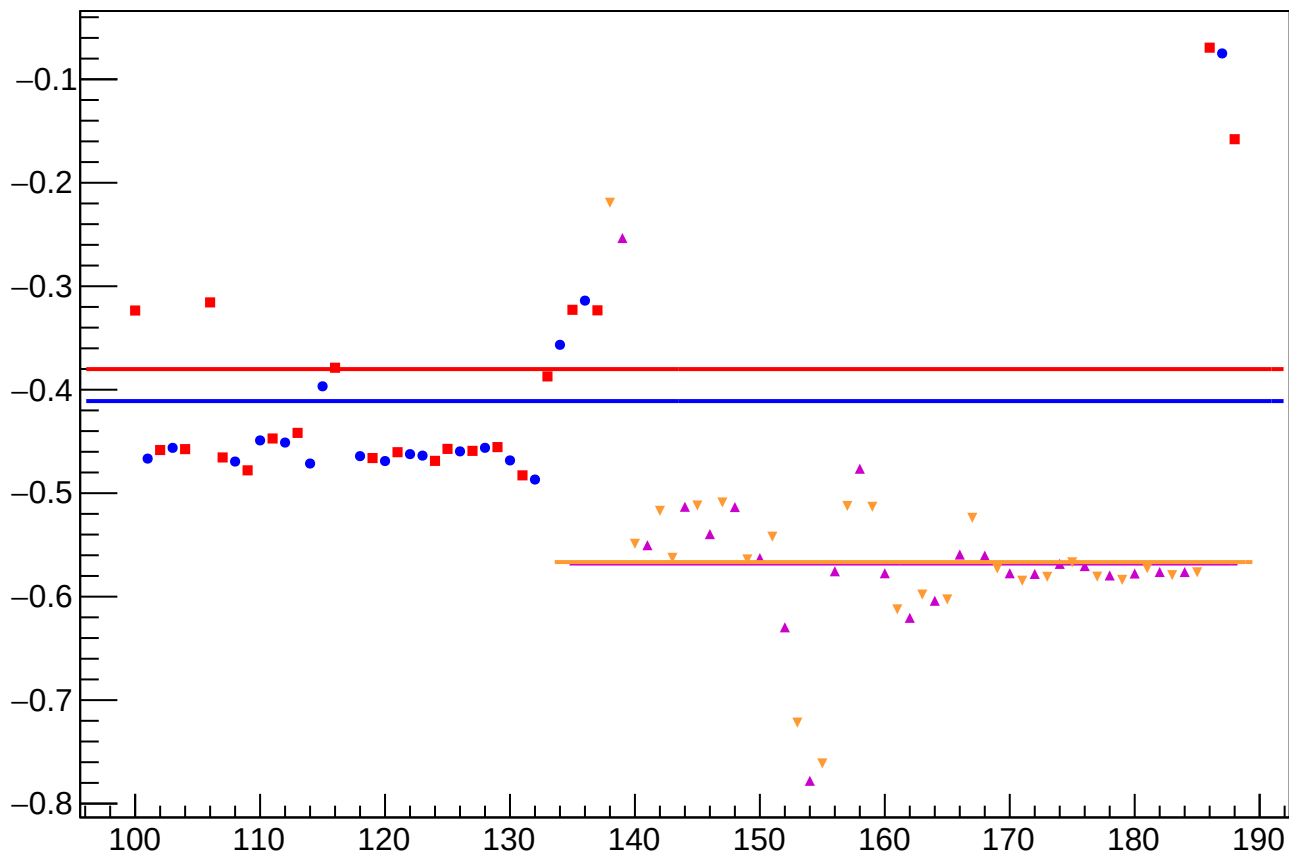
Right: 0.012+/-0.000 χ^2/NDF : 258307.4/38

In: 0.010+/-0.000 χ^2/NDF :600420.8/40

Out: 0.010+/-0.000 χ^2/NDF :637800.8/45

All: 0.010+/-0.000 χ^2/NDF : 1238575.7/86

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.411+/-0.000 χ^2/NDF : 2956483340.1/17

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.380+/-0.000 χ^2/NDF : 6659197113.9/20

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

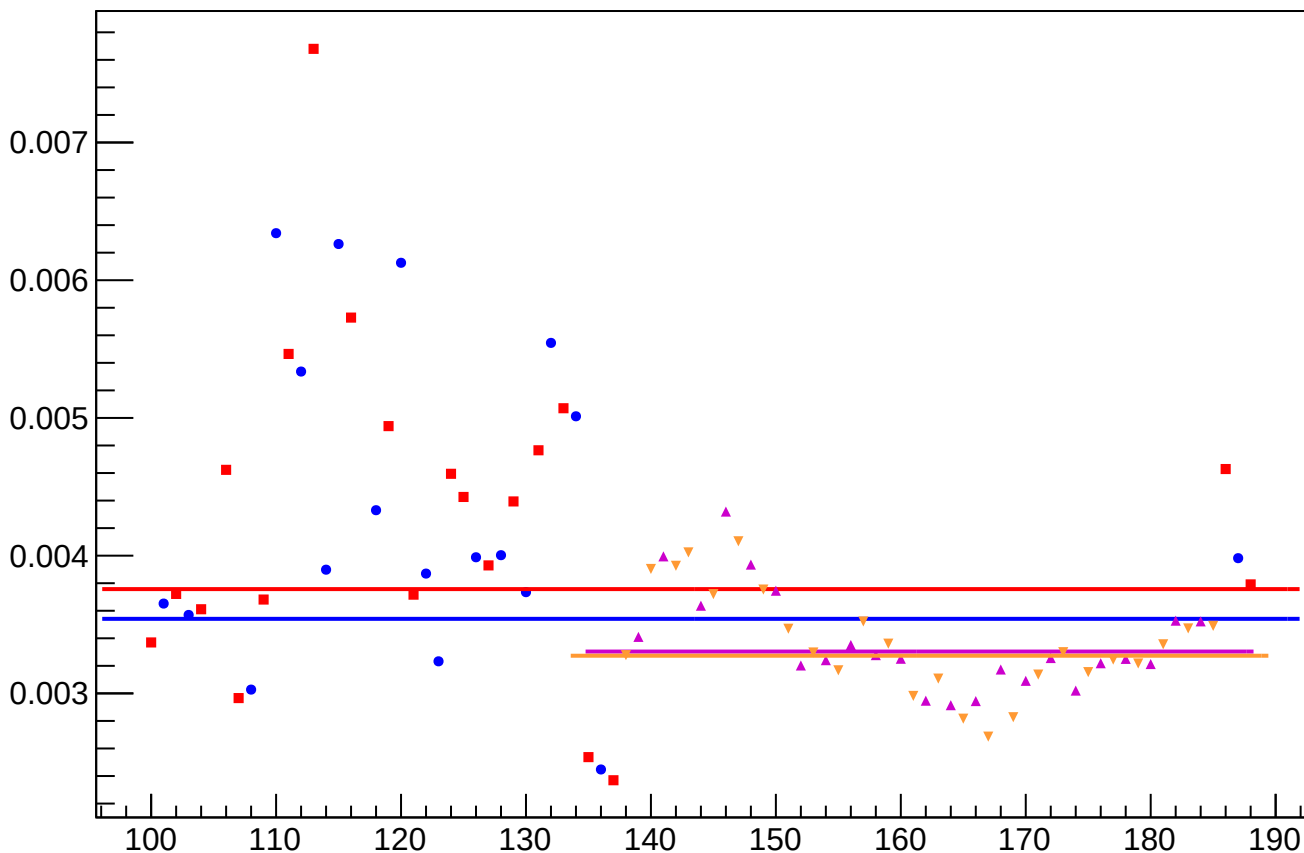
Right: -0.395+/-0.000 χ^2/NDF : 9838634711.0/38

In: -0.532+/-0.000 χ^2/NDF : 21806488982.0/40

Out: -0.523+/-0.000 χ^2/NDF : 33166515505.5/45

All: -0.527+/-0.000 χ^2/NDF : 55058963925.0/47

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 834653.4/17

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 910918.7/20

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

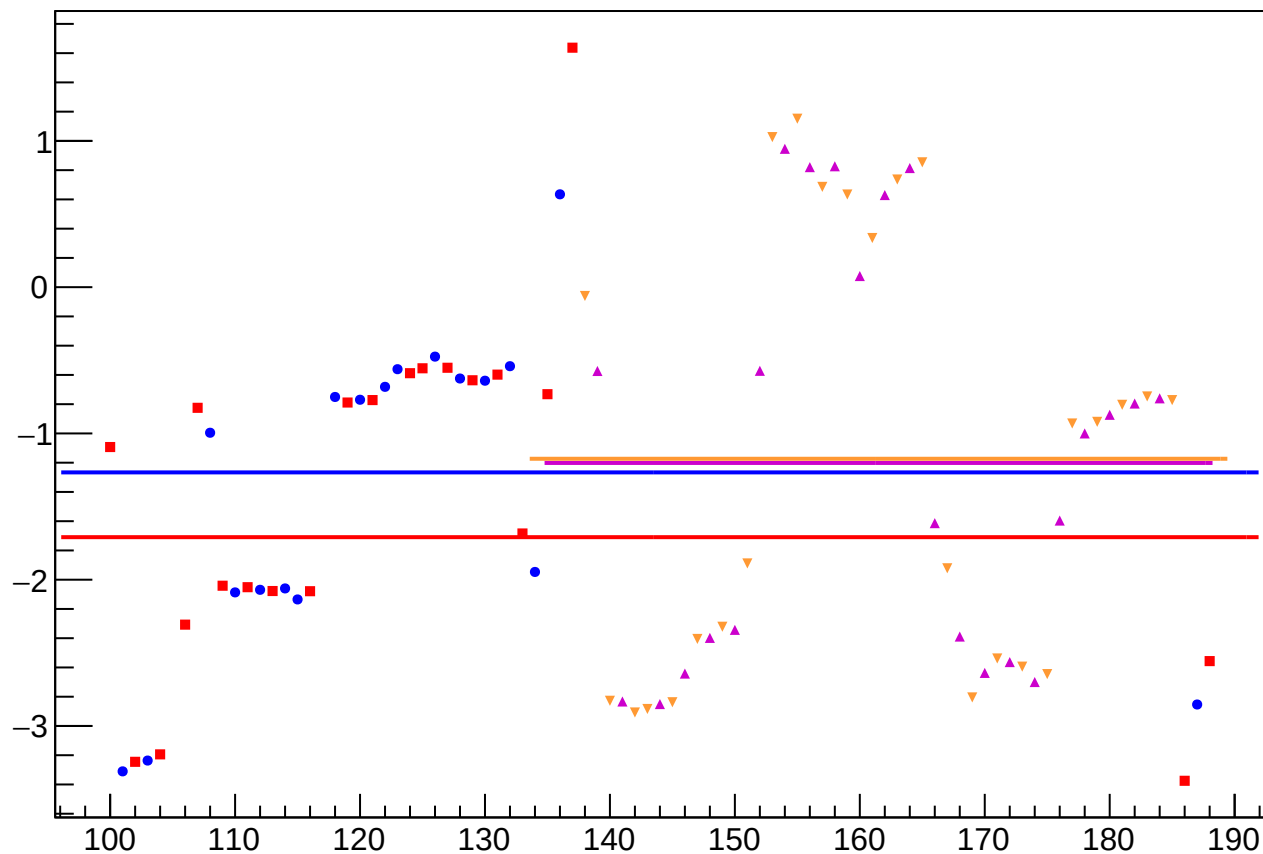
Right: 0.004+/-0.000 χ^2/NDF : 1767332.8/38

In: 0.003+/-0.000 χ^2/NDF : 1159119.3/40

Out: 0.003+/-0.000 χ^2/NDF : 1482556.3/45

All: 0.003+/-0.000 χ^2/NDF : 2643374.8/86

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.266 ± 0.000 $\chi^2/\text{NDF}: 2105950263.9/17$

Left Out: -1.173 ± 0.000 $\chi^2/\text{NDF}: 6882684653.2/24$

Right Out: -1.709 ± 0.000 $\chi^2/\text{NDF}: 2061167680.7/20$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.187 ± 0.000 $\chi^2/\text{NDF}: 12490828303.3/47$

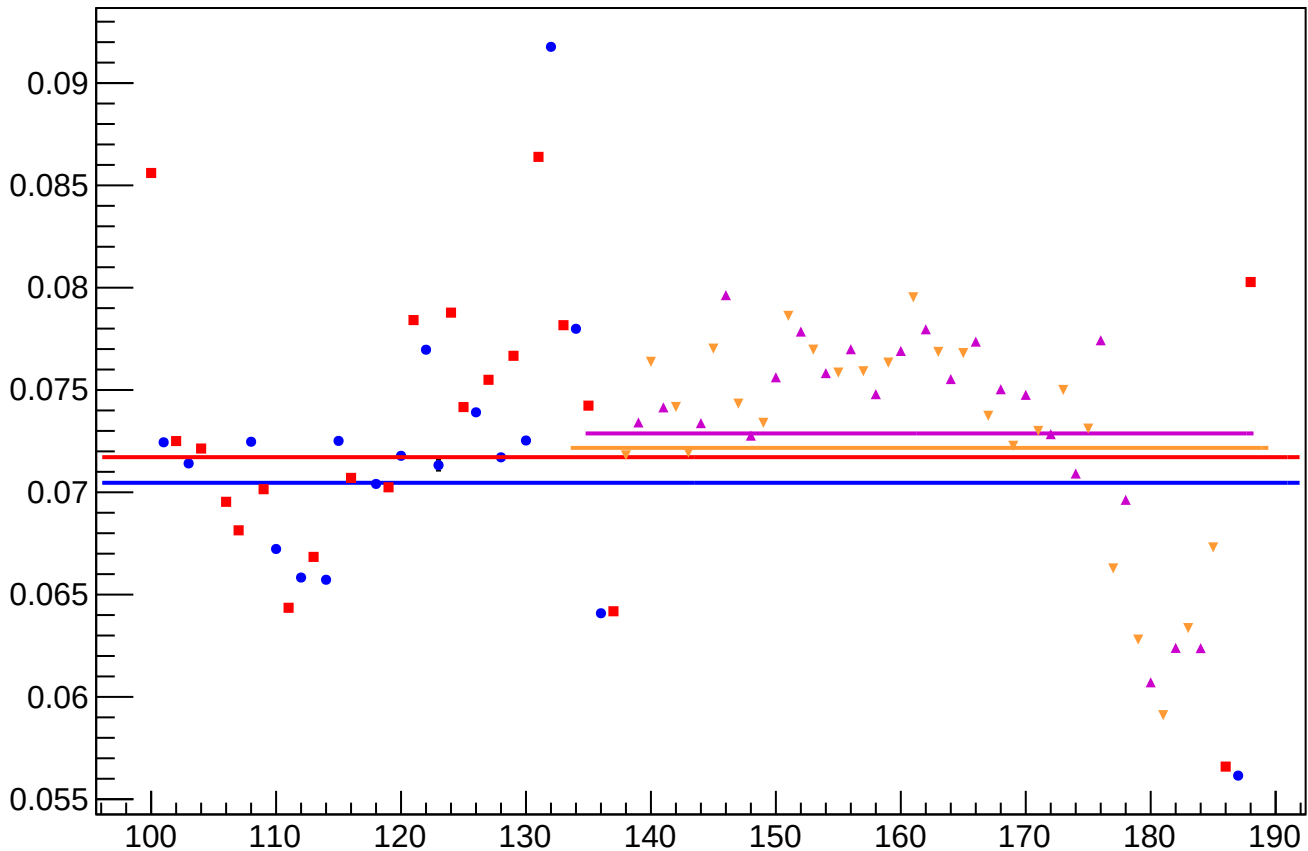
Right: -1.506 ± 0.000 $\chi^2/\text{NDF}: 4309737647.6/38$

In: -1.221 ± 0.000 $\chi^2/\text{NDF}: 7716683293.4/40$

Out: -1.341 ± 0.000 $\chi^2/\text{NDF}: 9256002175.4/45$

All: -1.284 ± 0.000 $\chi^2/\text{NDF}: 17007352176.6/100$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.070 $\pm$ 0.000 χ^2 /NDF: 95845.8/17

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 141768.7/20

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

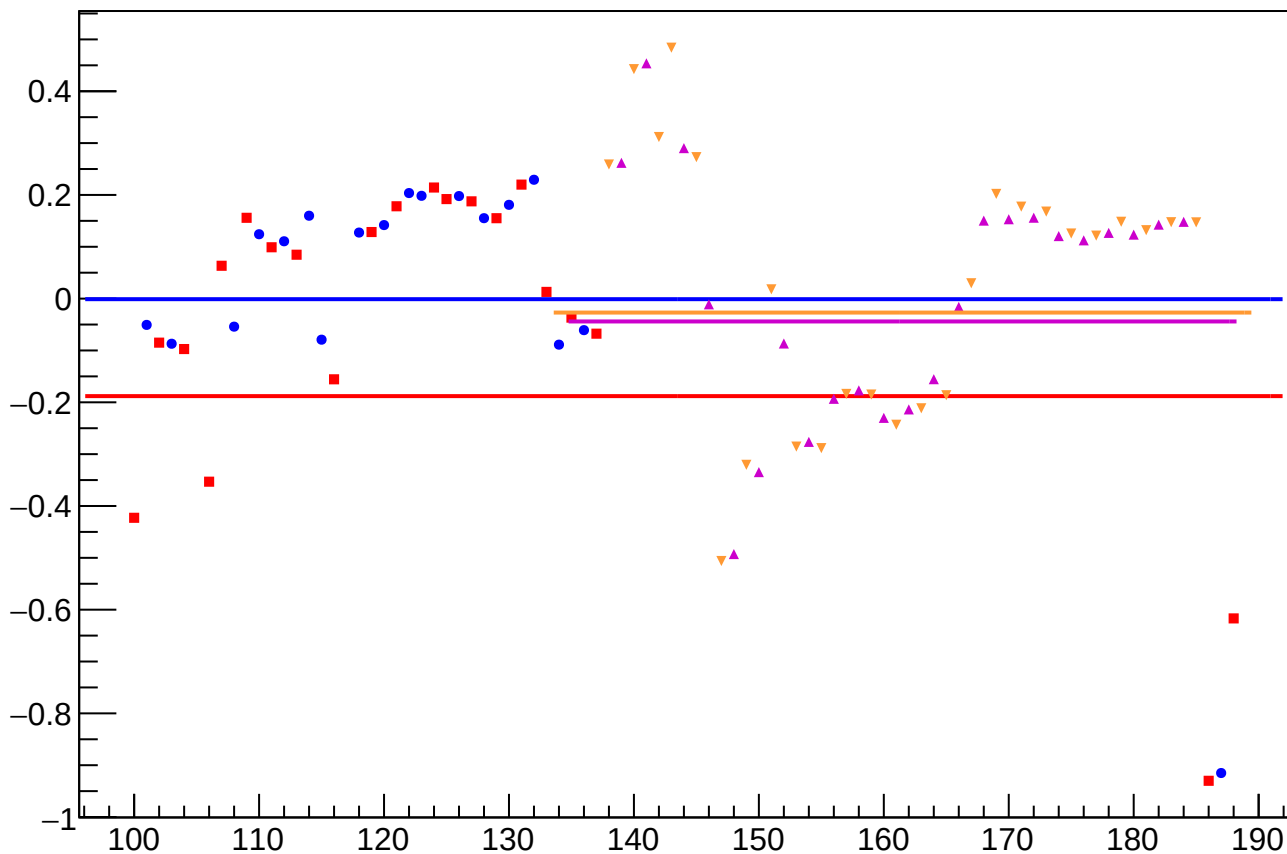
Right: 0.071 $\pm$ 0.000 χ^2 /NDF: 239898.5/38

In: 0.072 $\pm$ 0.000 χ^2 /NDF:290366.4/40

Out: 0.072 $\pm$ 0.000 χ^2 /NDF:364478.6/45

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 654929.9/86

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.001+/-0.000

χ²/NDF: 1733471191.2/17

Left: -0.035+/-0.000

χ²/NDF: 36148383394.4/47

Left Out: -0.027+/-0.000

χ²/NDF: 20376761328.6/24

Right: -0.109+/-0.000

χ²/NDF: 9415630445.2/38

Right Out: -0.188+/-0.000

χ²/NDF: 6774192768.4/20

In: -0.039+/-0.000

χ²/NDF: 17525769020.2/40

Out: -0.049+/-0.000

χ²/NDF: 28517931797.3/45

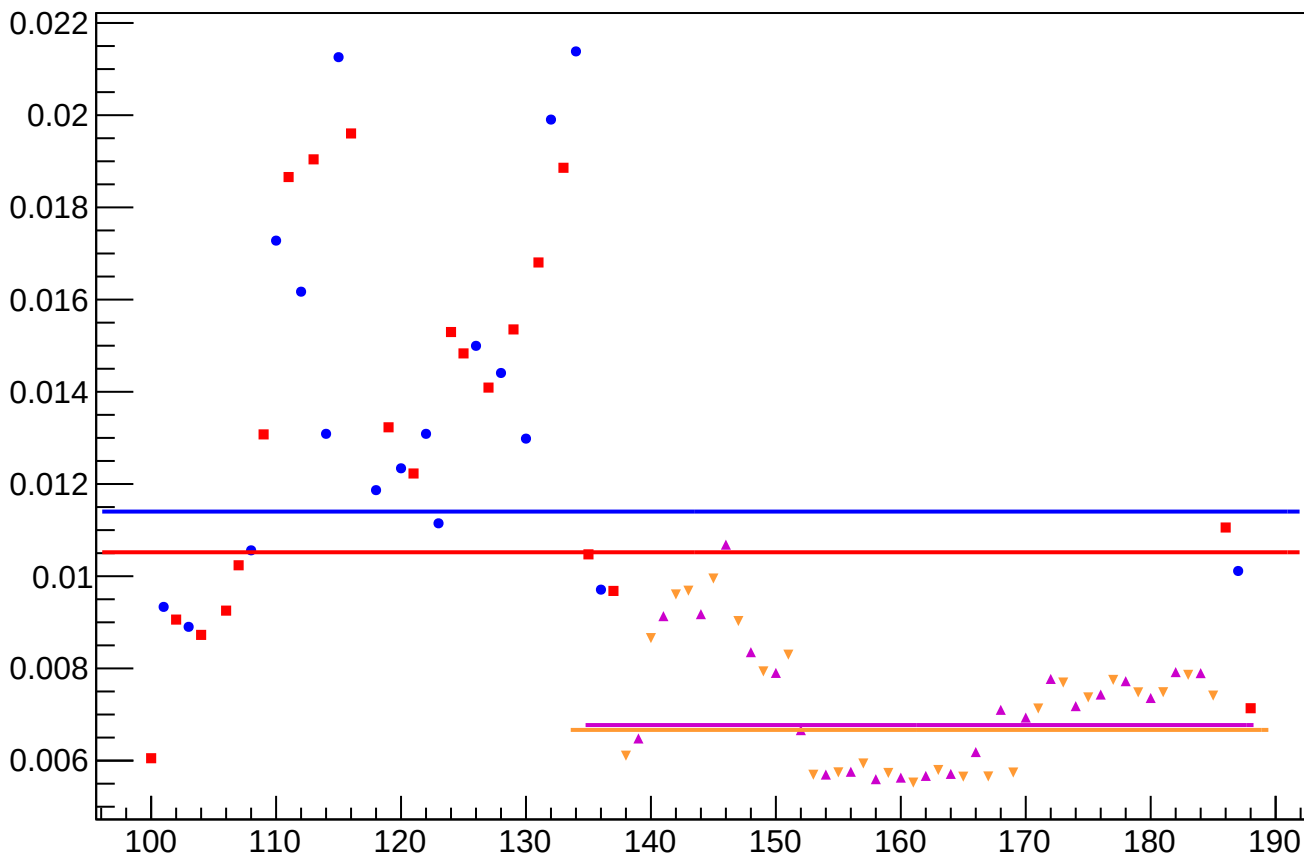
Left In: -0.044+/-0.000

χ²/NDF: 15718556282.1/22

All: -0.045+/-0.000

χ²/NDF: 46065459736.2/113

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 678392.5/17

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1398023.3/20

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

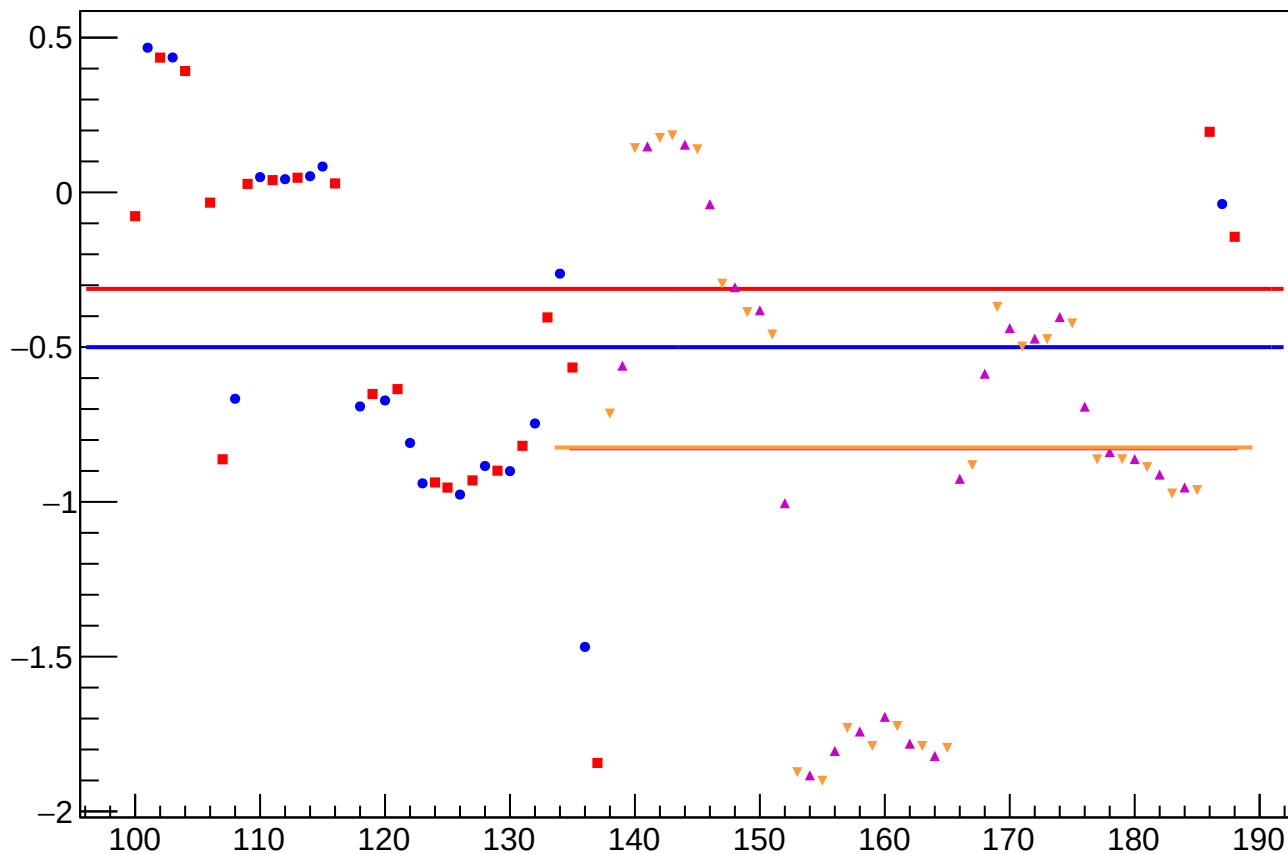
Right: 0.011+/-0.000 χ^2/NDF : 2116869.4/38

In: 0.007+/-0.000 χ^2/NDF :3323826.3/40

Out: 0.007+/-0.000 χ^2/NDF :4104542.2/45

All: 0.007+/-0.000 χ^2/NDF : 7432881.8/86

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.500 $\pm$ 0.000 χ^2/NDF : 346429757.8/17

Left Out: -0.824 $\pm$ 0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.312 $\pm$ 0.000 χ^2/NDF : 297116032.8/20

Left In: -0.827 $\pm$ 0.000 χ^2/NDF : 921651117.3/22

Left: -0.826 $\pm$ 0.000 χ^2/NDF : 2025270716.0/47

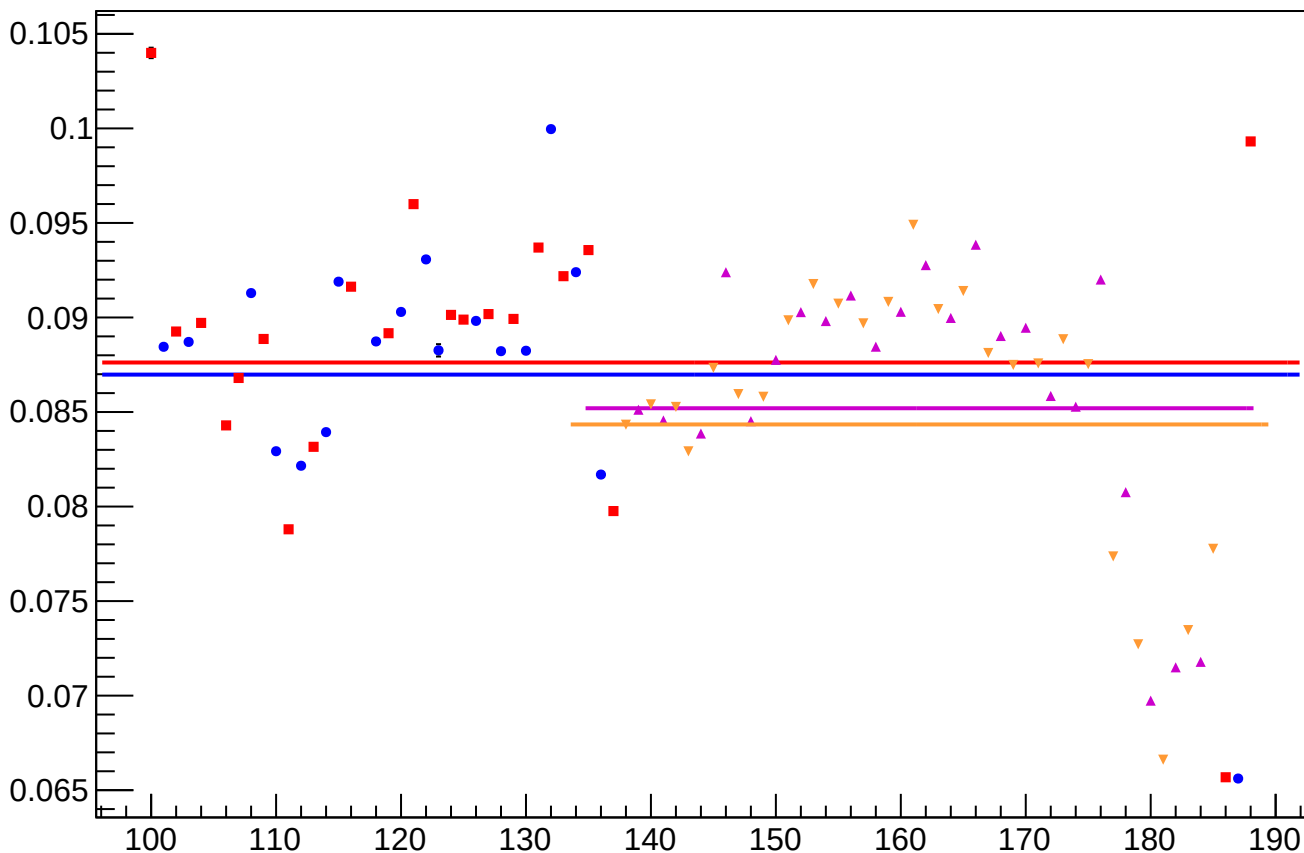
Right: -0.397 $\pm$ 0.000 χ^2/NDF : 660936266.7/38

In: -0.737 $\pm$ 0.000 χ^2/NDF : 1337560175.0/40

Out: -0.672 $\pm$ 0.000 χ^2/NDF : 1599921004.6/45

All: -0.703 $\pm$ 0.000 χ^2/NDF : 2944664679.5/8

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 67822.9/17

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 149974.2/20

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

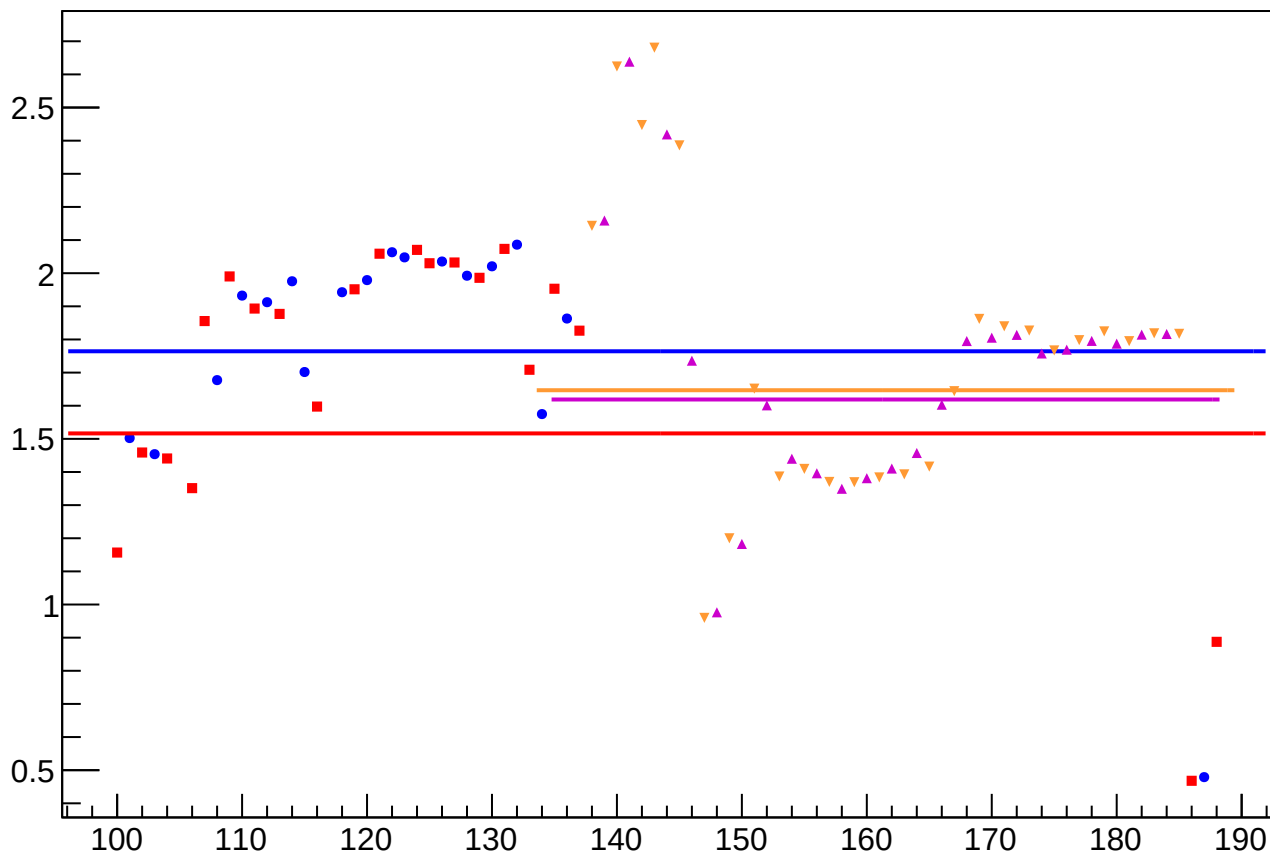
Right: 0.087 $\pm$ 0.000 χ^2 /NDF: 218199.1/38

In: 0.086 $\pm$ 0.000 χ^2 /NDF:310253.5/40

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:454565.5/45

All: 0.085 $\pm$ 0.000 χ^2 /NDF: 765301.7/86

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.764 $\pm$ 0.000 χ^2 /NDF: 2518137277.4/17

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.516 $\pm$ 0.000 χ^2 /NDF: 7825919726.1/20

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

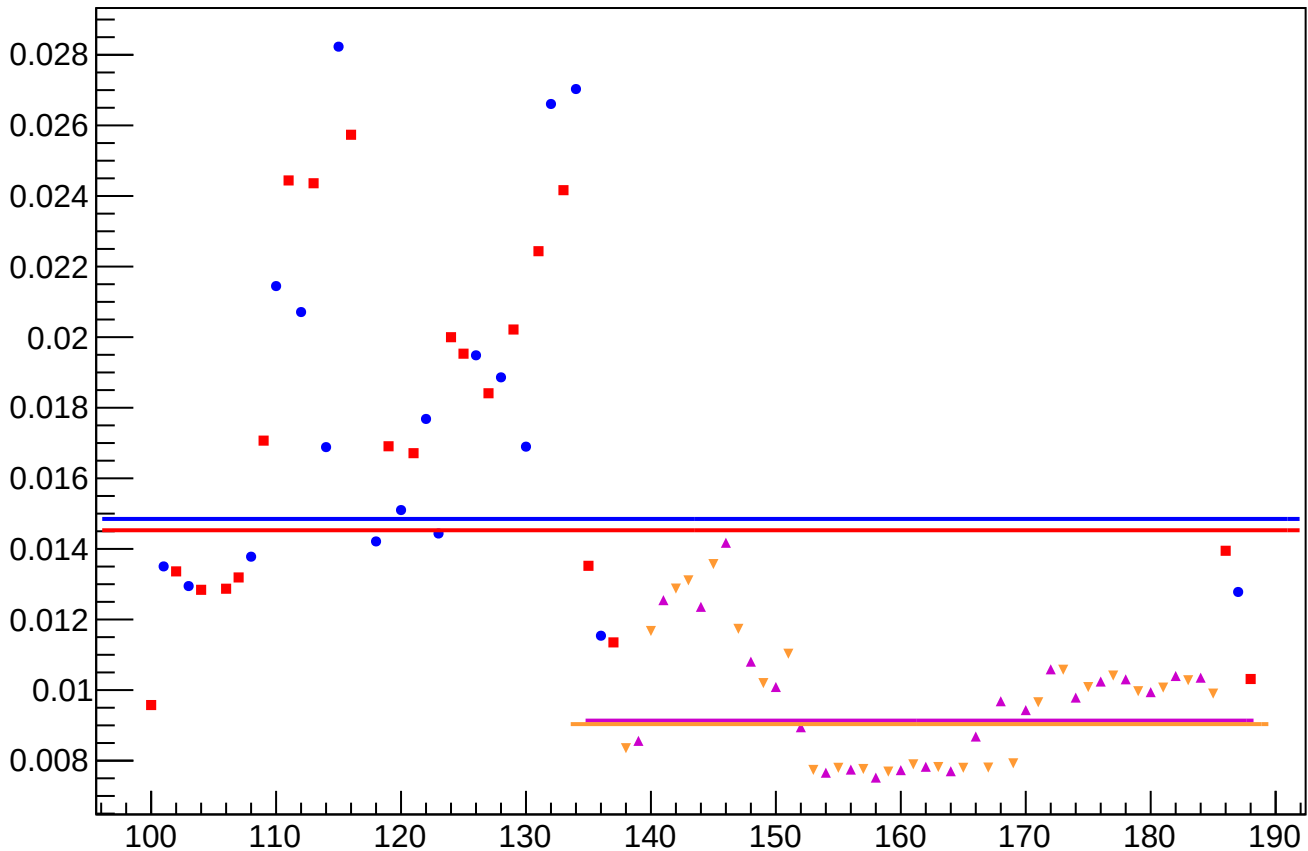
Right: 1.627 $\pm$ 0.000 χ^2 /NDF: 11246378606.1/38

In: 1.637 $\pm$ 0.000 χ^2 /NDF: 23630650160.5/40

Out: 1.629 $\pm$ 0.000 χ^2 /NDF: 34842572805.6/45

All: 1.633 $\pm$ 0.000 χ^2 /NDF: 58479682995.3/80

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 645097.9/17

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1086975.4/20

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

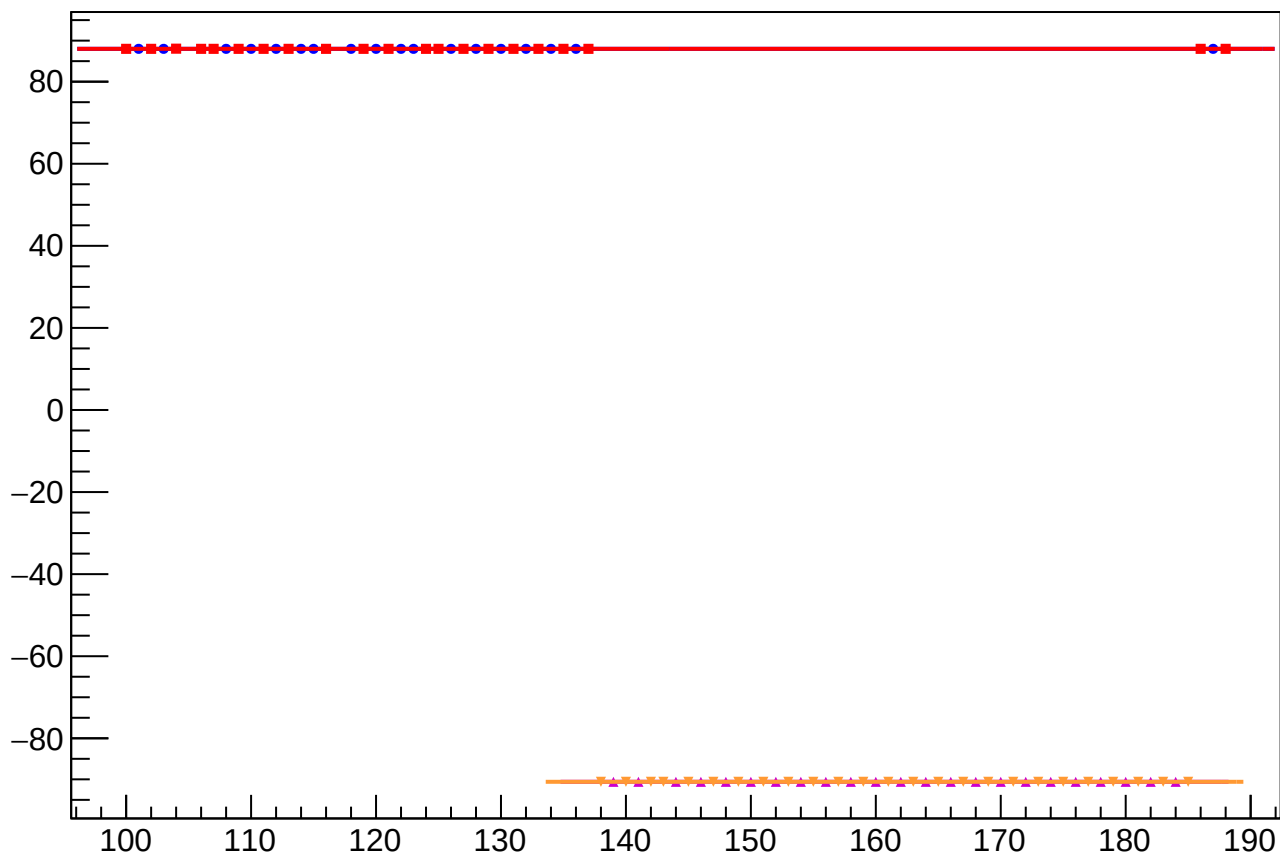
Right: 0.015+/-0.000 χ^2/NDF : 1735099.4/38

In: 0.010+/-0.000 χ^2/NDF :3047943.3/40

Out: 0.010+/-0.000 χ^2/NDF :3839516.8/45

All: 0.010+/-0.000 χ^2/NDF : 6887988.6/86

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1908412.3/17

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.003+/-0.000 χ^2/NDF : 78445204496693473660475801600.0/20

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

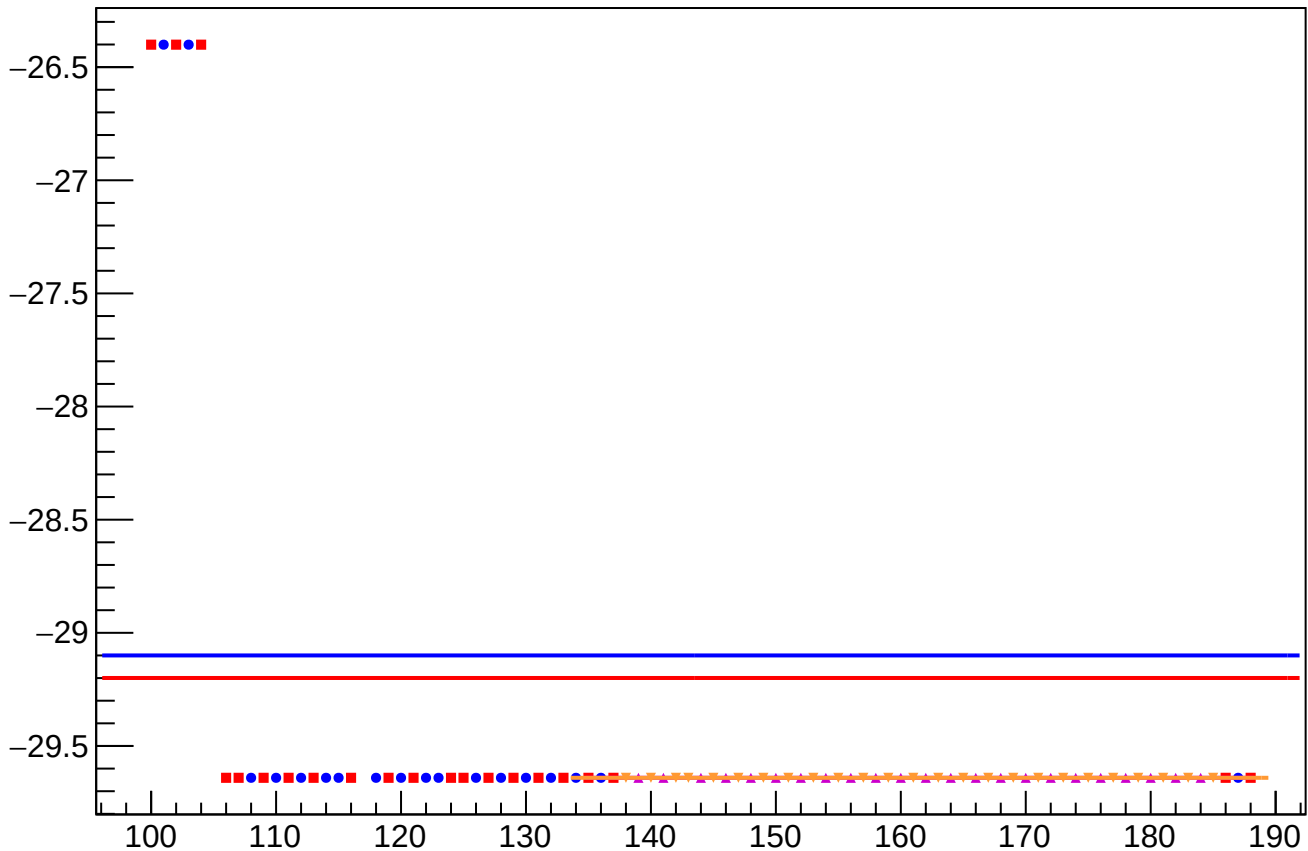
Right: 88.002+/-0.000 χ^2/NDF : 8071025222693758

In: -40.152+/-0.000 χ^2/NDF : 16181836382389108

Out: -35.406+/-0.000 χ^2/NDF : 1877900141319523

All: -37.664+/-0.000 χ^2/NDF : 349903914696

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.100+/-0.000

χ^2/NDF : 1031971987553053630823669453291520.0/17

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.200+/-0.000

χ^2/NDF : 1051928518309862907977712074227712.0/20

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

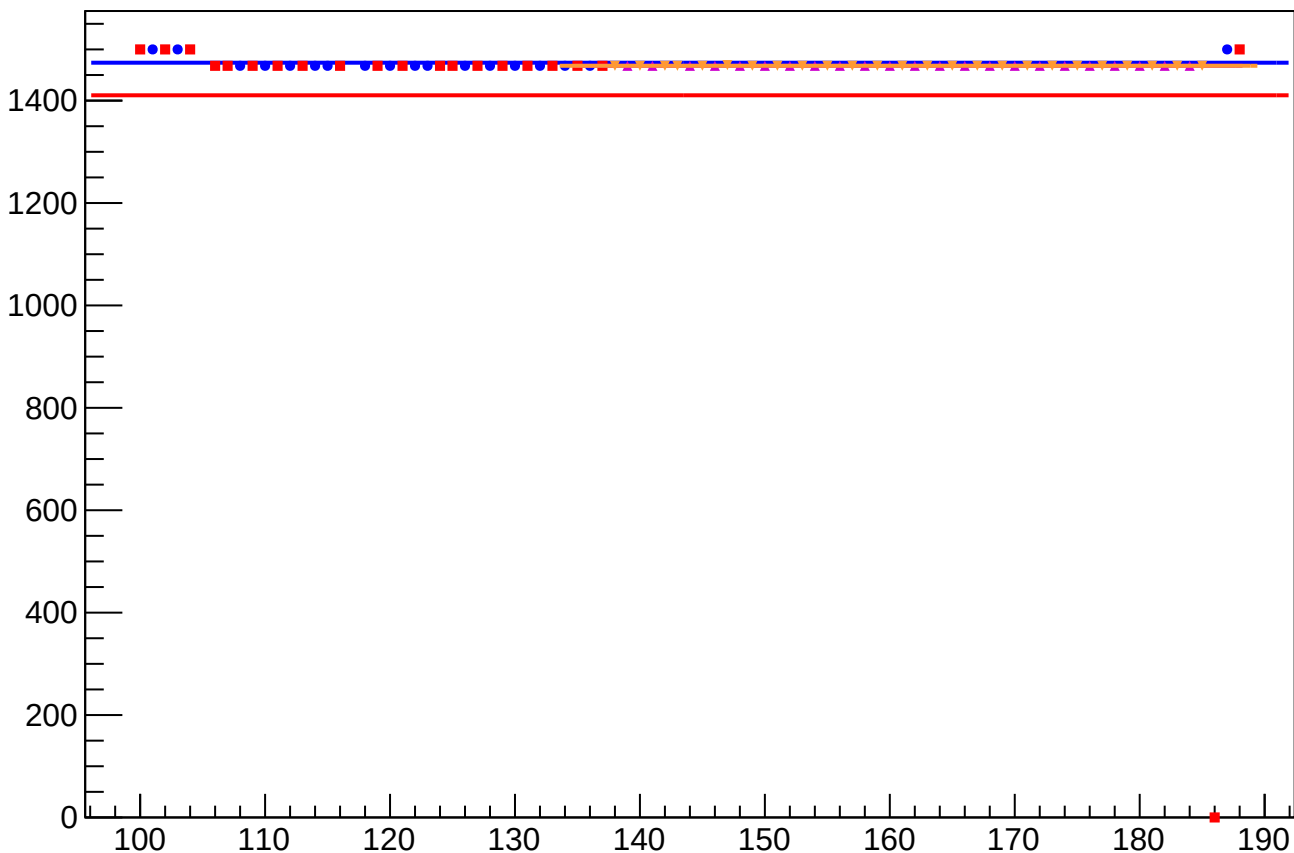
Right: -29.154+/-0.000 χ^2/NDF : 208773629249520.0/17

In: -29.488+/-0.000 χ^2/NDF : 11803194438673451.0/17

Out: -29.504+/-0.000 χ^2/NDF : 1166486305984740.0/17

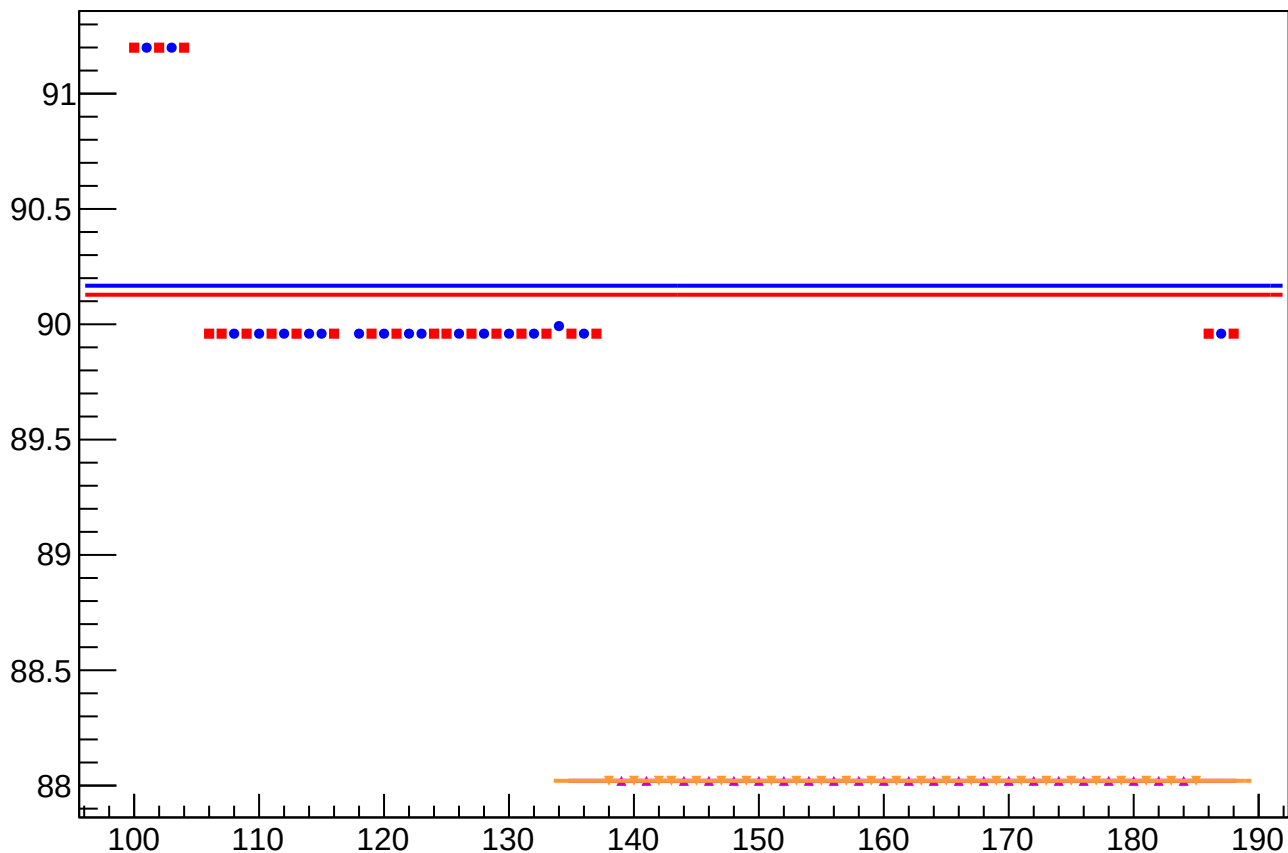
All: -29.497+/-0.000 χ^2/NDF : 234715958144.0/17

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1474.048+/-0.000 χ^2/NDF : 111357842324780376652682384807821312.0/17
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1410.399+/-0.000 χ^2/NDF : 79278091991577071825344578947307798528.0/20
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1459.498+/-0.000 χ^2/NDF : 81862068976

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.167+/-0.000

χ^2/NDF : 150889545922426711882929765613568.0/17

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.128+/-0.000

χ^2/NDF : 154077626291112554148546356445184.0/20

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.146+/-0.000

χ^2/NDF : 3055583049881050

In: 88.627+/-0.000

χ^2/NDF : 24883302194746245

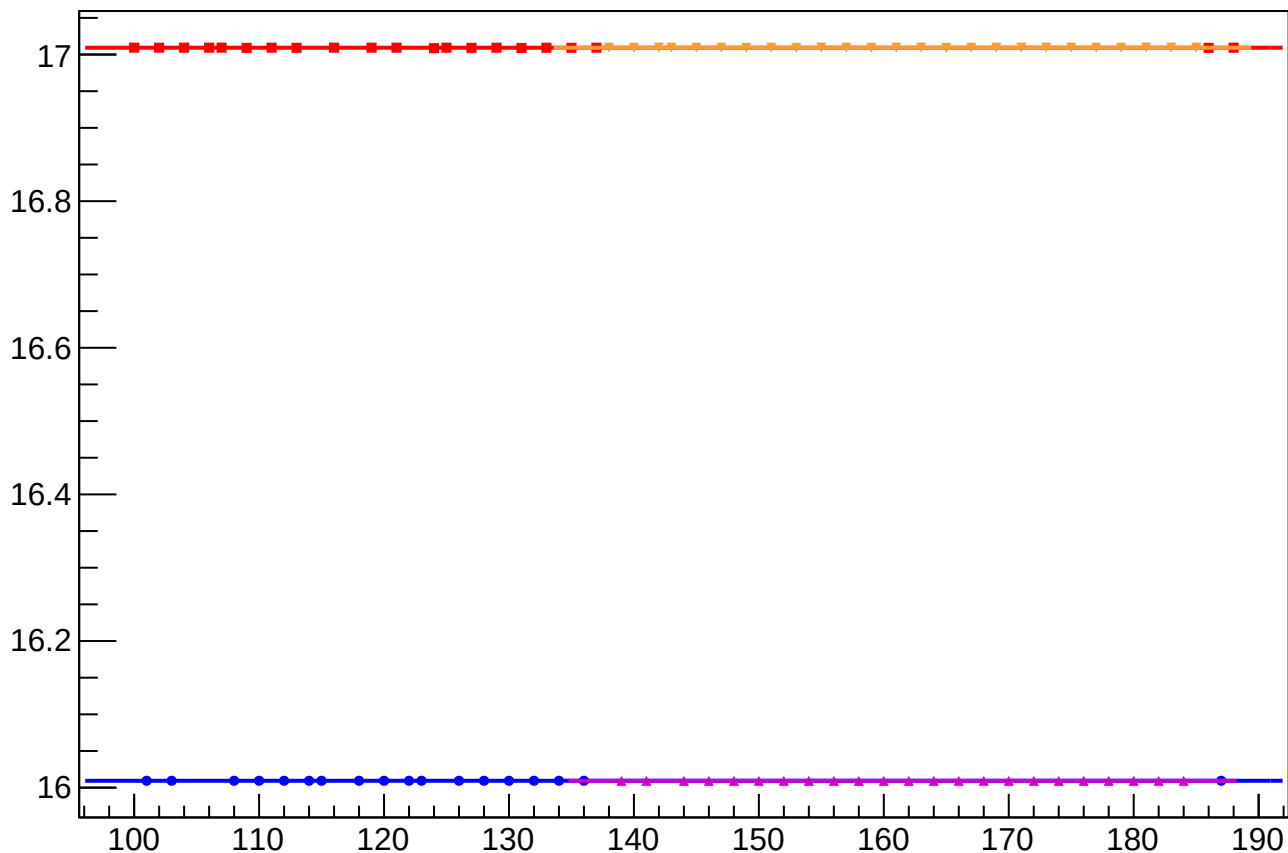
Out: 88.672+/-0.000

χ^2/NDF : 27686461002503409

All: 88.651+/-0.000

χ^2/NDF : 5259626724604

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 46713.2/17

Left: 16.524+/-0.000 χ^2/NDF : 85855870772921272

Left Out: 17.009+/-0.000 χ^2/NDF : 26194929080144976634970112.0/24

Right: 16.547+/-0.000 χ^2/NDF : 3628659731845037

Right Out: 17.009+/-0.000 χ^2/NDF : 13762185708583990973169664.0/20

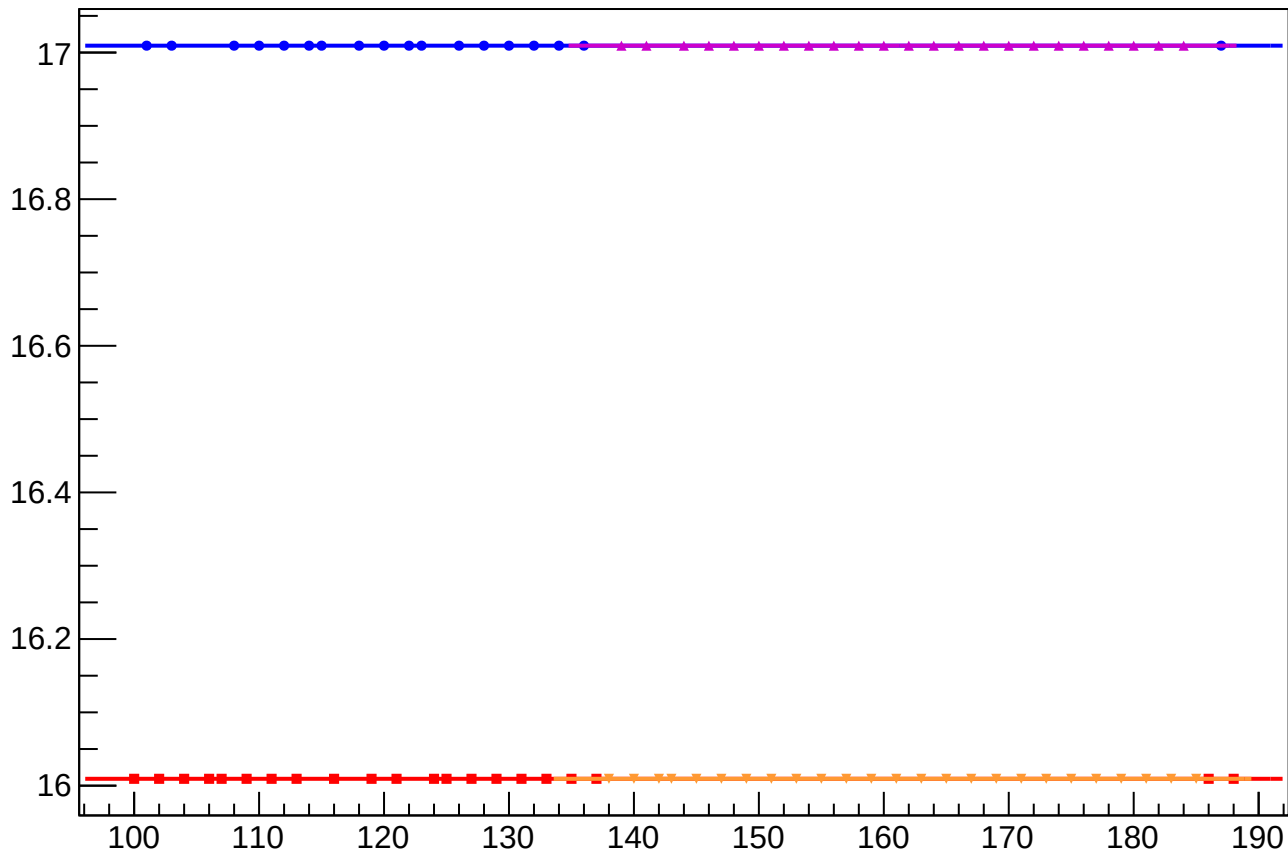
In: 16.009+/-0.000 χ^2/NDF : 129607684512455547

Left In: 16.009+/-0.000 χ^2/NDF : 127920993667935400624128.0/22

Out: 17.009+/-0.000 χ^2/NDF : 40267075189364075

All: 16.531+/-0.000 χ^2/NDF : 1221959672173

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 120007.8/17

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 210405.0/20

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

Left: 16.491 $\pm$ 0.000 χ^2 /NDF: 90683349233974458

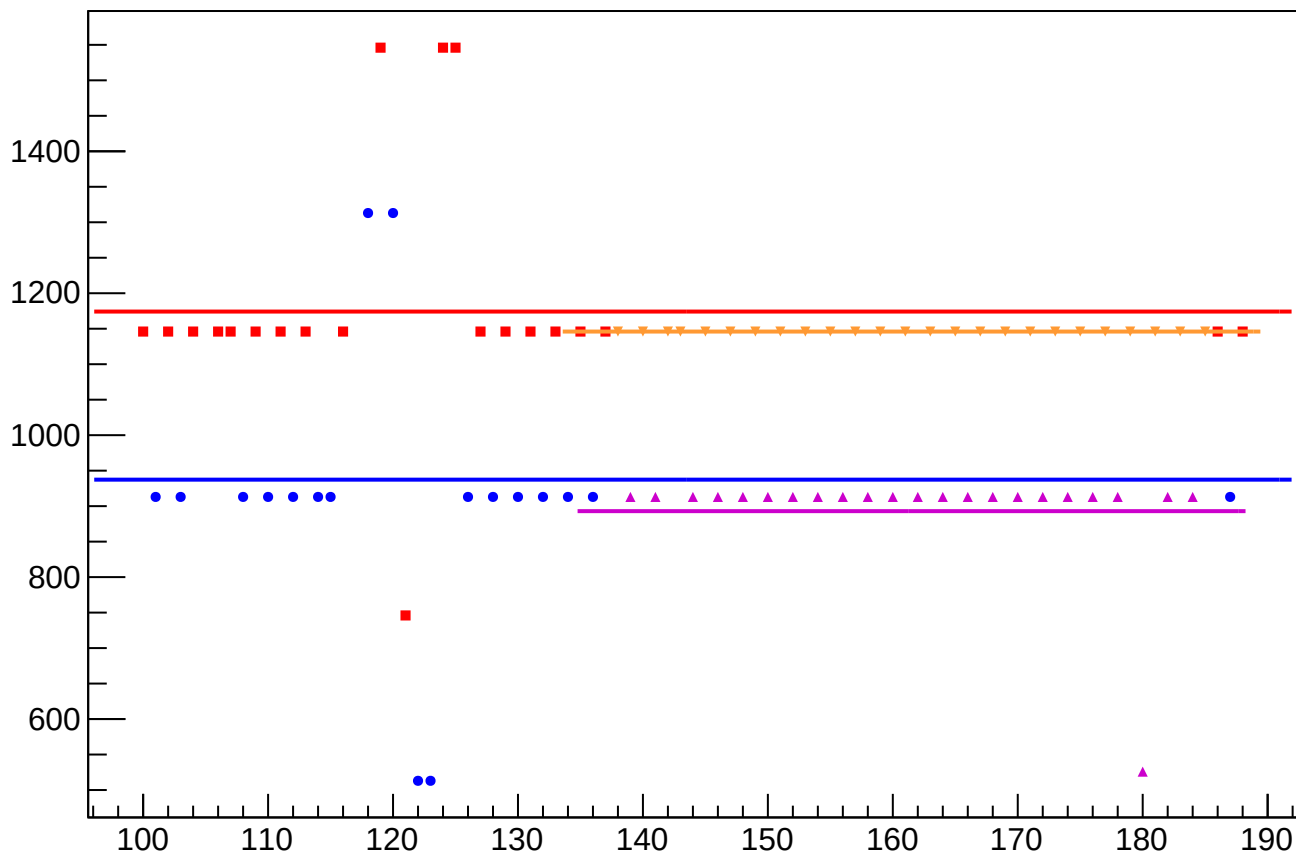
Right: 16.453 $\pm$ 0.000 χ^2 /NDF: 3752467105263023

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116537869754894875

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 354204.9/45

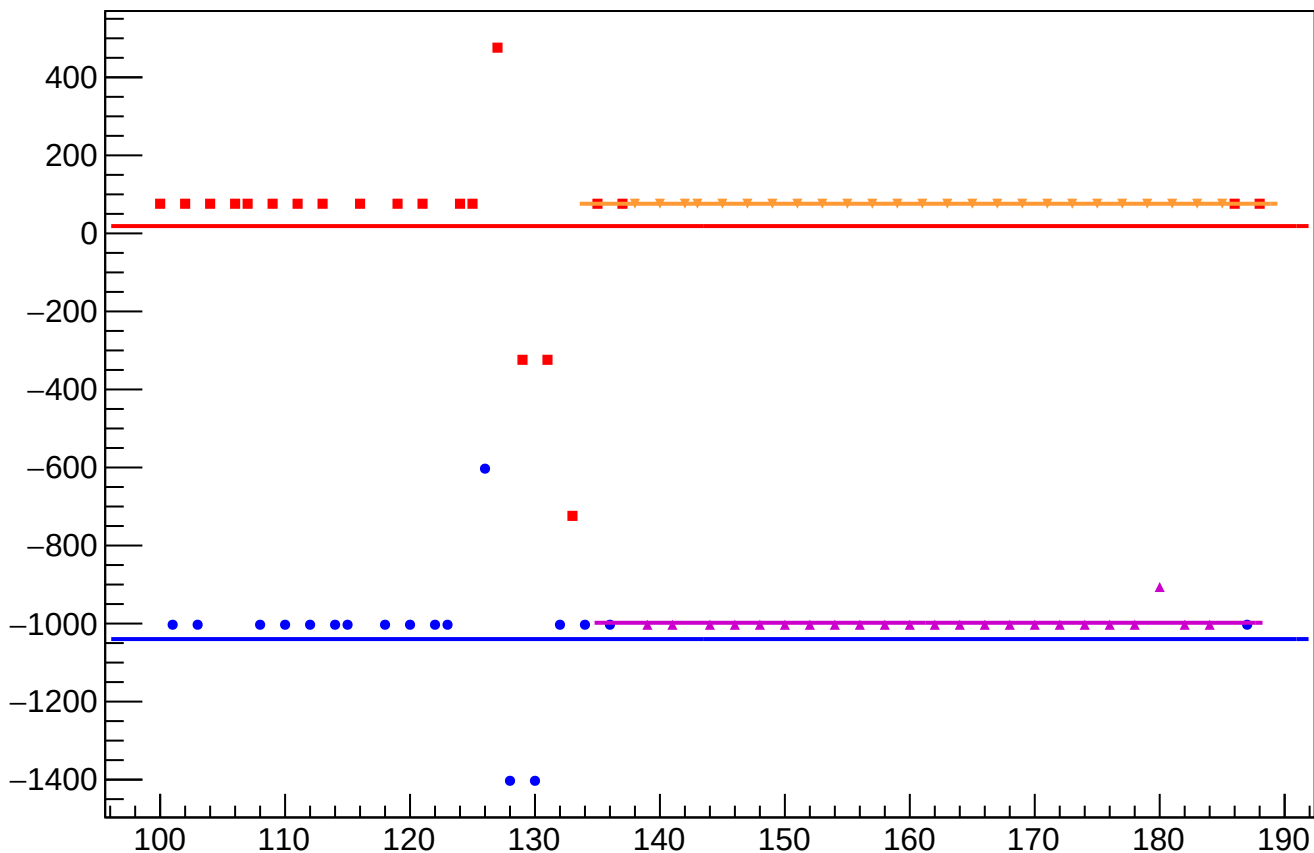
All: 16.480 $\pm$ 0.000 χ^2 /NDF: 1283629457125

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.323 +/- 0.000 χ^2/NDF : 20862888511214490429560050003065438208.0/17
 Left Out: 1146.011 +/- 0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1174.179 +/- 0.000 χ^2/NDF : 21404659768339688637010167953813929984.0/20
 Left In: 892.950 +/- 0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1036.118 +/- 0.000 χ^2/NDF : 13844007750

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1039.764+/-0.000

χ^2/NDF : 22243510961945917813639904030214848512.0/17

Left Out: 76.011+/-0.000

χ^2/NDF : 11479003589933272170007363584.0/24

Right Out: 18.733+/-0.000

χ^2/NDF : 44244589863079970366111271148461228032.0/20

Left In: -997.979+/-0.000

χ^2/NDF : 825858066518991041870194619245920256.0/22

All: -449.947+/-0.000 χ^2/NDF : 15668114107