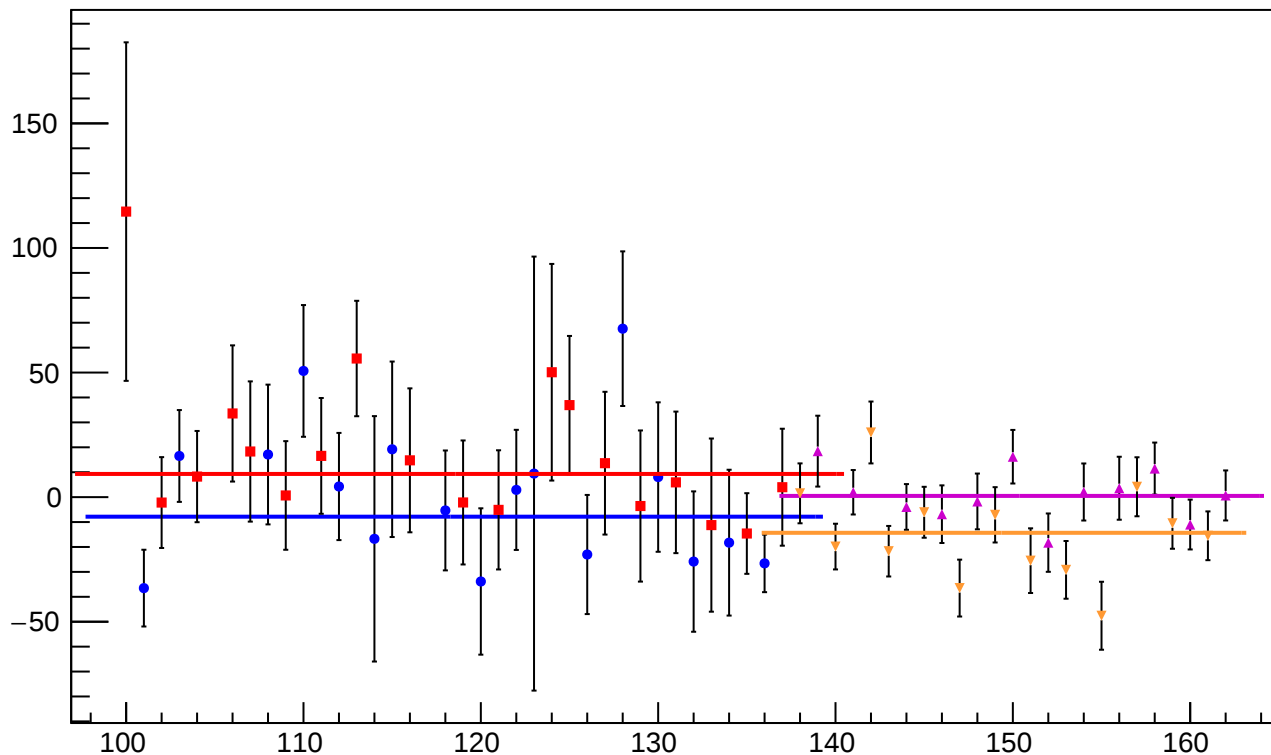


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 $\pm$ 5.608

χ^2/NDF : 22.6/16

Left Out: -14.313 $\pm$ 3.067

χ^2/NDF : 28.9/12

Right Out: 9.309 $\pm$ 5.677

χ^2/NDF : 13.2/18

Left In: 0.495 $\pm$ 3.104

χ^2/NDF : 9.5/11

Left: -6.997 $\pm$ 2.182

χ^2/NDF : 50.0/24

Right: 0.629 $\pm$ 3.990

χ^2/NDF : 40.5/35

In: -1.459 $\pm$ 2.716

χ^2/NDF : 33.8/28

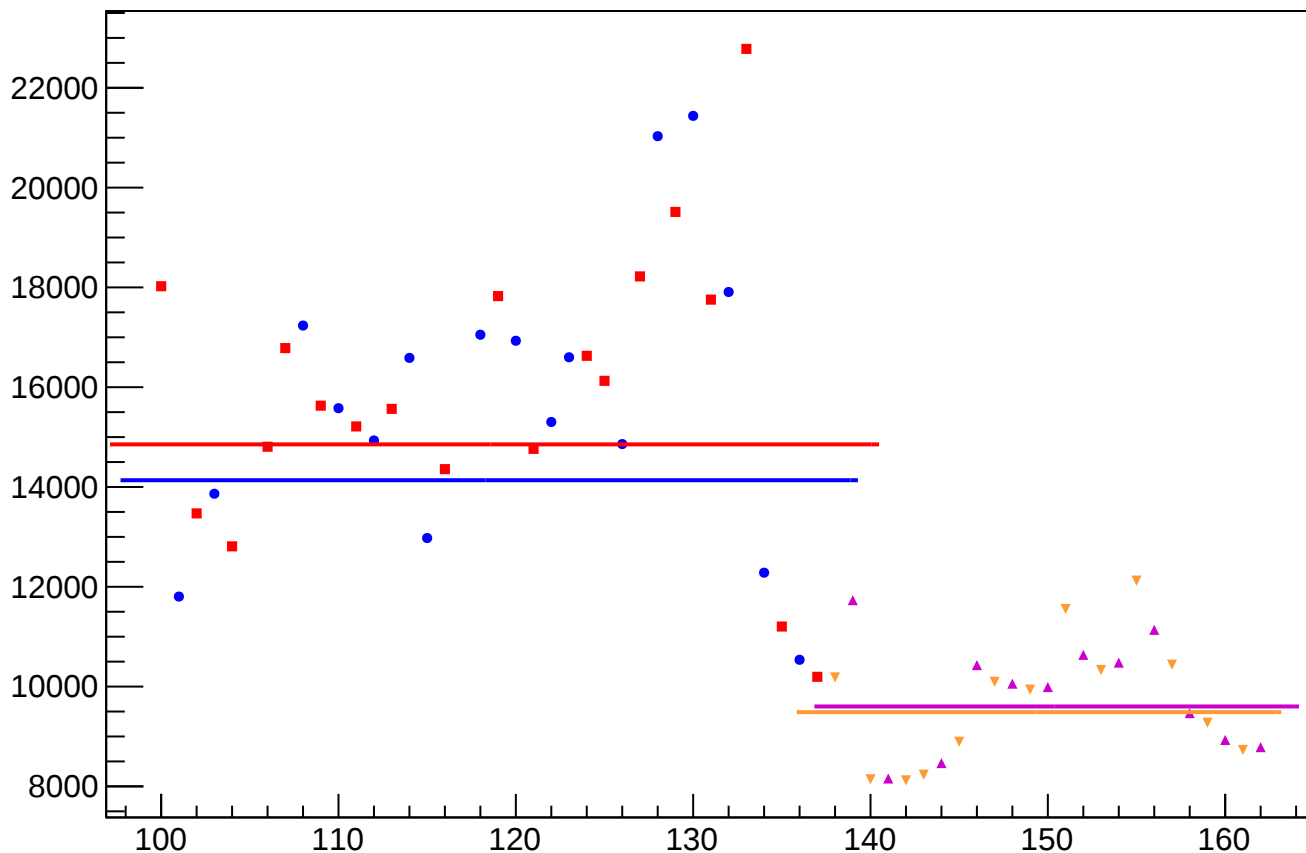
Out: -8.976 $\pm$ 2.698

χ^2/NDF : 55.6/31

All: -5.242 $\pm$ 1.914

χ^2/NDF : 93.3/60

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800 $\pm$ 3.966 χ^2 /NDF: 597179.4/16

Left Out: 9487.834 $\pm$ 2.169 χ^2 /NDF:282115.9/12

Right Out: 14854.033 $\pm$ 4.014 χ^2 /NDF: 472017.6/18

Left In: 9601.500 $\pm$ 2.195 χ^2 /NDF:223555.1/11

Left: 9543.989 $\pm$ 1.543 χ^2 /NDF: 507028.1/24

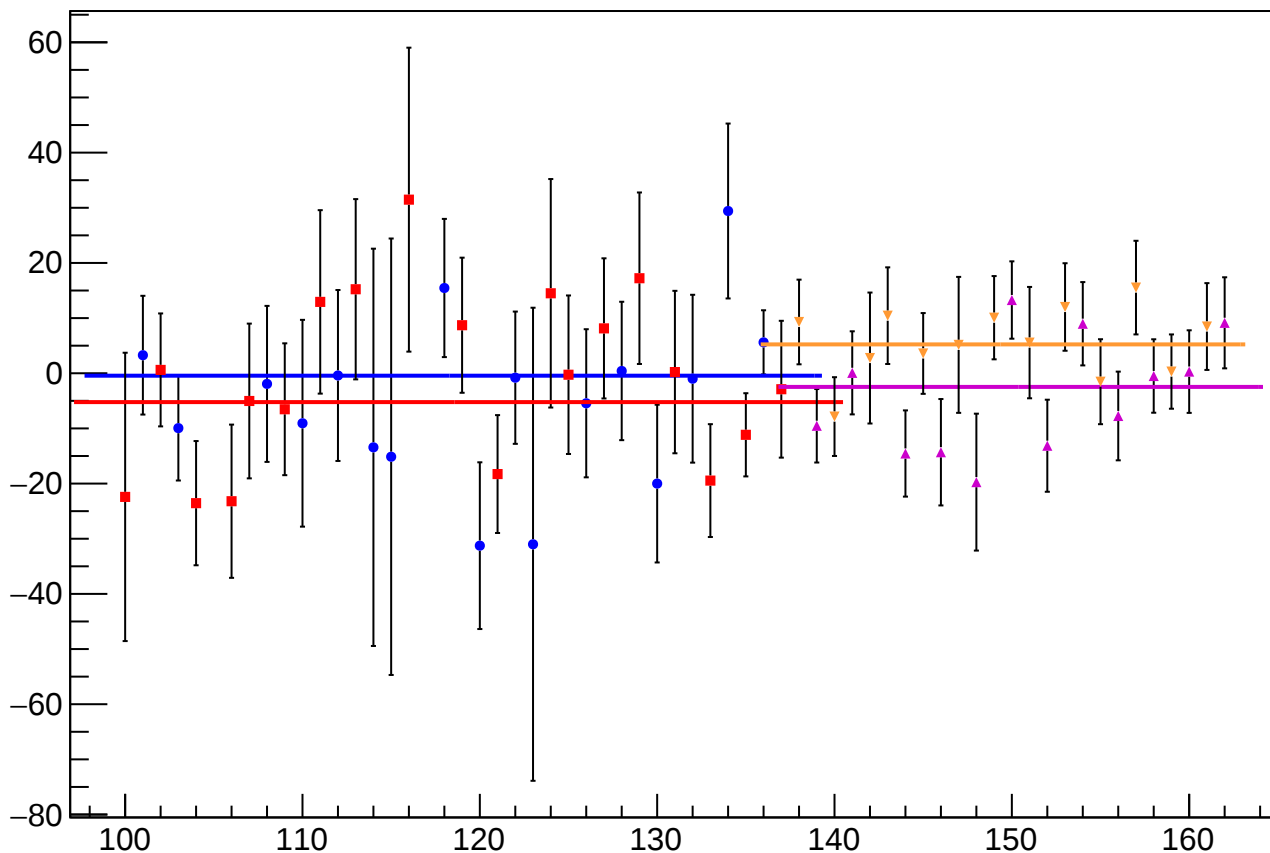
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10664.678 $\pm$ 1.920 χ^2 /NDF:1821528.8/28

Out: 10700.166 $\pm$ 1.908 χ^2 /NDF:2137316.0/31

All: 10682.535 $\pm$ 1.354 χ^2 /NDF: 3959016.6/60

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.441 ± 3.071 χ^2/NDF : 14.5/16

Left Out: 5.233 ± 2.270 χ^2/NDF : 8.2/12

Right Out: -5.229 ± 2.936 χ^2/NDF : 19.4/18

Left In: -2.473 ± 2.256 χ^2/NDF : 18.7/11

Left: 1.356 ± 1.600 χ^2/NDF : 32.7/24

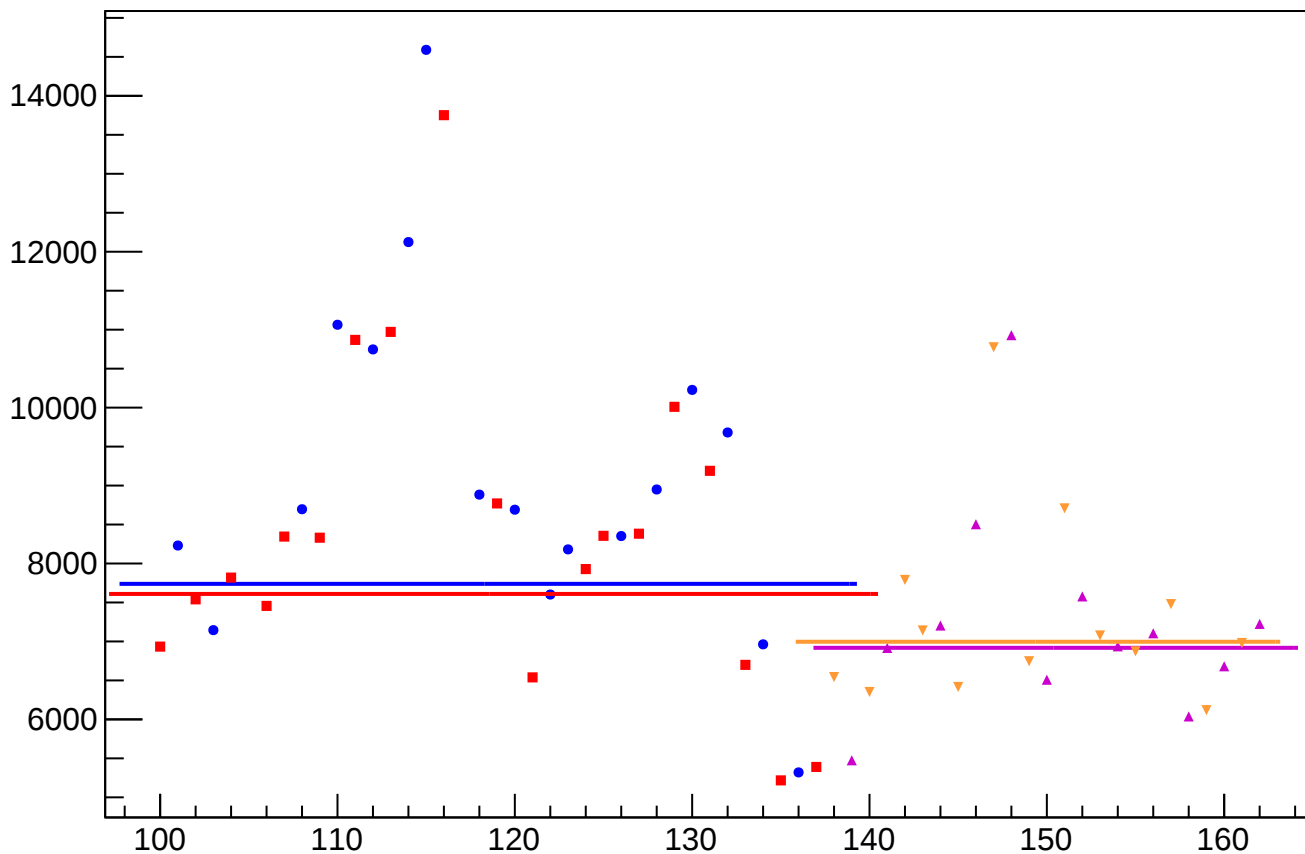
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -1.761 ± 1.818 χ^2/NDF : 33.5/28

Out: 1.320 ± 1.796 χ^2/NDF : 35.5/31

All: -0.202 ± 1.278 χ^2/NDF : 70.4/60

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886 $\pm$ 2.172 χ^2 /NDF: 740836.7/16

Left Out: 6996.010 $\pm$ 1.605 χ^2 /NDF:334075.1/12

Right Out: 7609.531 $\pm$ 2.076 χ^2 /NDF: 679180.7/18

Left In: 6918.240 $\pm$ 1.595 χ^2 /NDF:419646.6/11

Left: 6956.887 $\pm$ 1.131 χ^2 /NDF: 754903.2/24

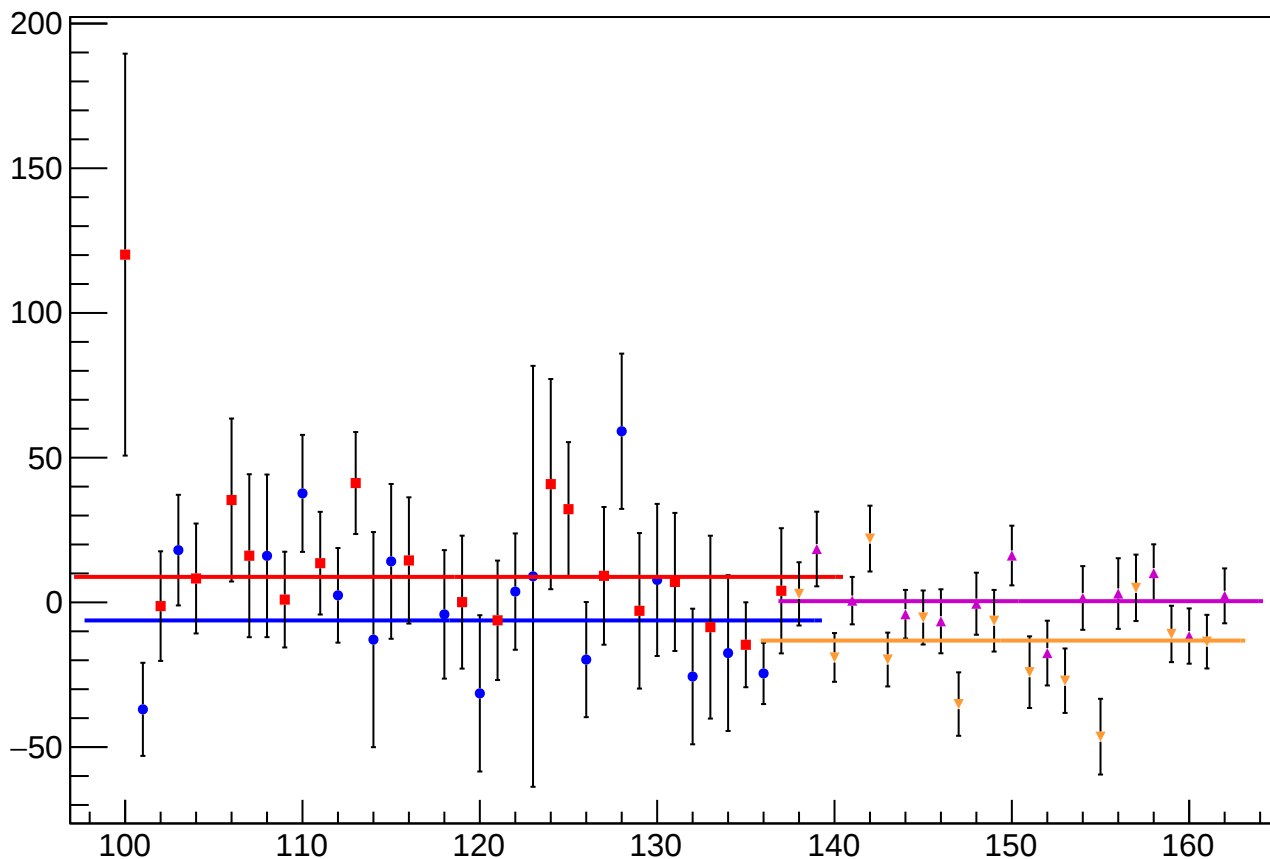
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7205.821 $\pm$ 1.286 χ^2 /NDF:1253250.6/28

Out: 7225.501 $\pm$ 1.270 χ^2 /NDF:1067927.8/31

All: 7215.783 $\pm$ 0.903 χ^2 /NDF: 2321297.1/60

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 ± 5.017 χ^2/NDF : 23.2/16

Left Out: -13.197 ± 2.879 χ^2/NDF : 29.2/12

Right Out: 8.802 ± 4.999 χ^2/NDF : 13.1/18

Left In: 0.422 ± 2.930 χ^2/NDF : 10.2/11

Left: -6.506 ± 2.054 χ^2/NDF : 50.4/24

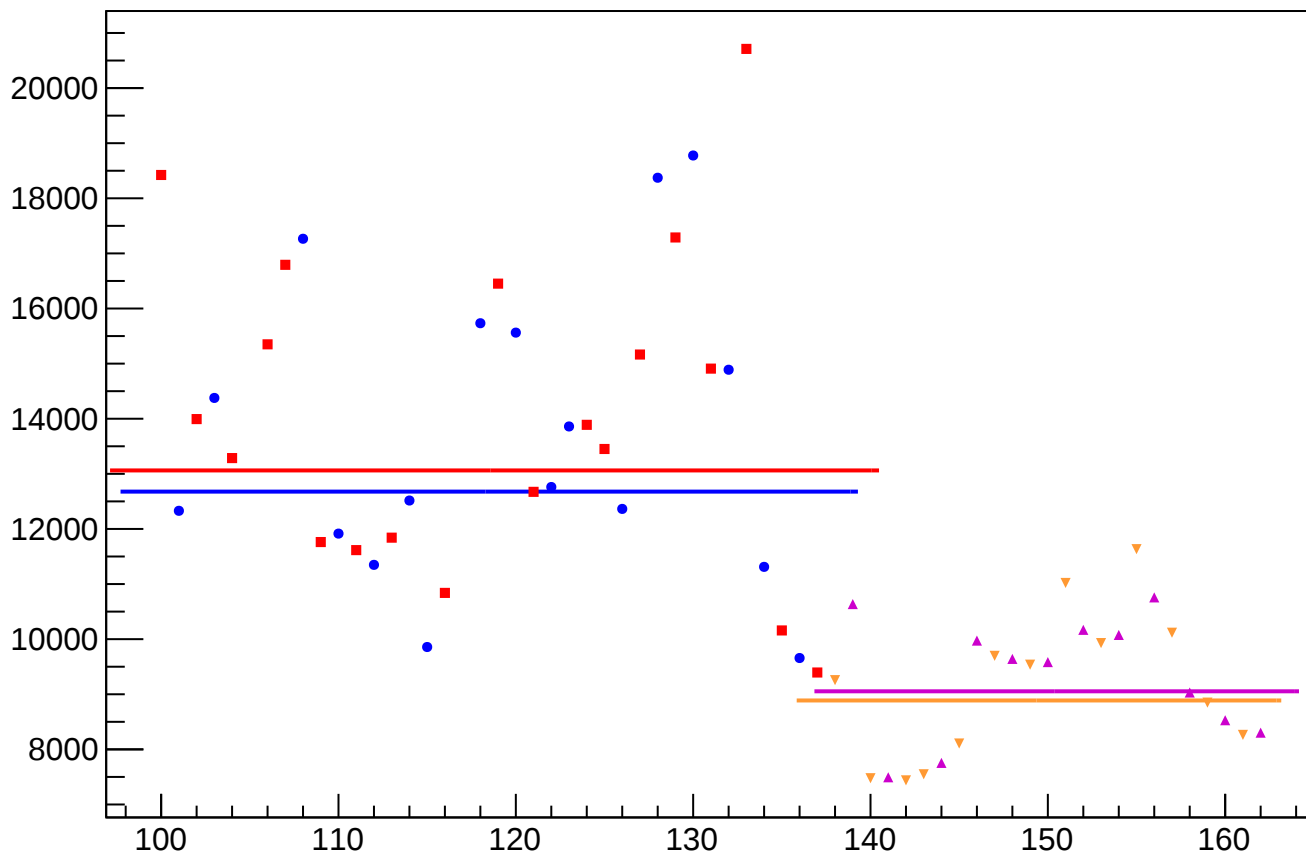
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: -1.273 ± 2.530 χ^2/NDF : 34.7/28

Out: -7.717 ± 2.495 χ^2/NDF : 56.9/31

All: -4.540 ± 1.777 χ^2/NDF : 94.9/60

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12677.516+/-3.548 χ^2/NDF : 553605.5/16

Left Out: 8887.499+/-2.036 χ^2/NDF : 361754.7/12

Right Out: 13061.839+/-3.535 χ^2/NDF : 497429.6/18

Left In: 9053.779+/-2.072 χ^2/NDF : 270283.7/11

Left: 8969.185+/-1.452 χ^2/NDF : 635315.0/24

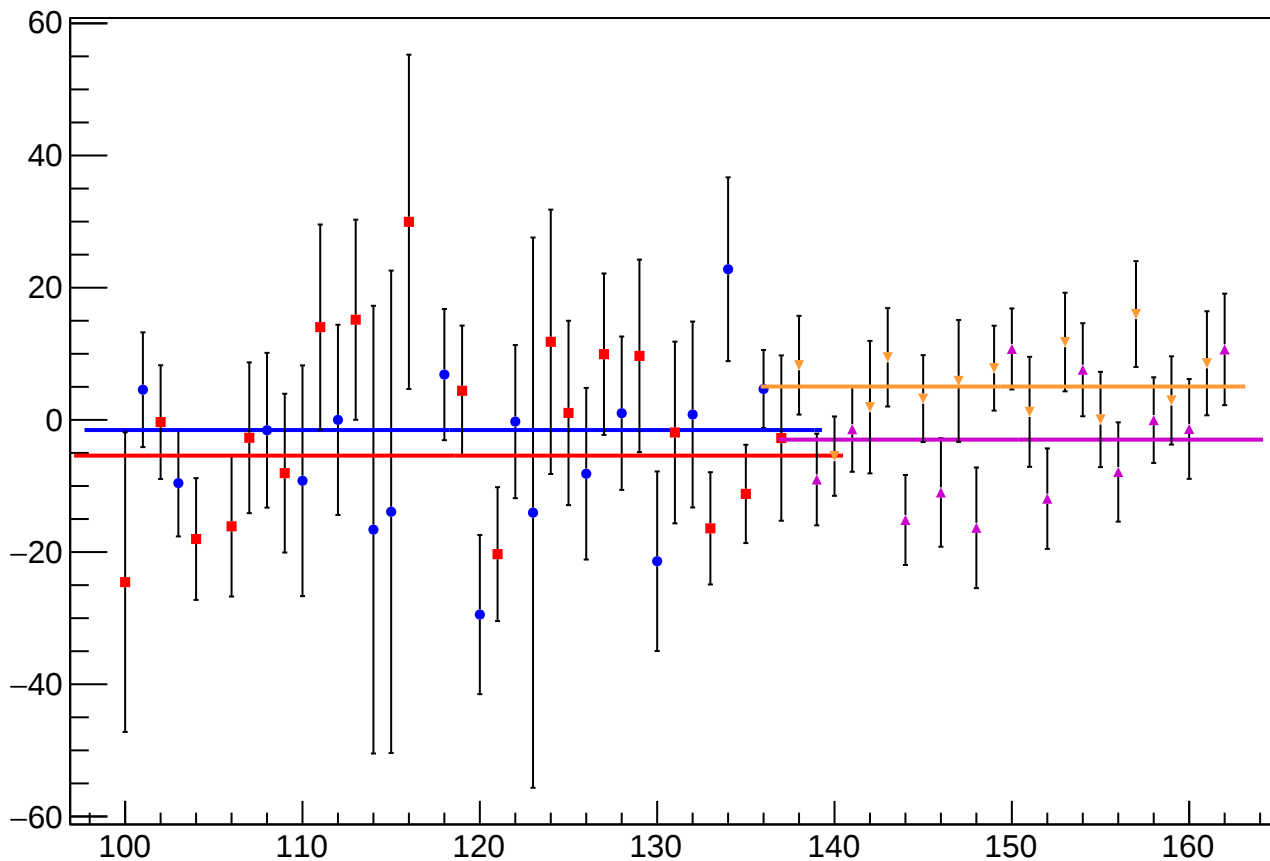
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9975.383+/-1.789 χ^2/NDF : 1601826.8/28

Out: 9927.307+/-1.764 χ^2/NDF : 1906249.5/31

All: 9951.009+/-1.256 χ^2/NDF : 3508442.4/60

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.790 χ^2/NDF : 14.8/16

Left Out: 5.046 ± 2.047 χ^2/NDF : 7.7/12

Right Out: -5.405 ± 2.640 χ^2/NDF : 18.6/18

Left In: -2.986 ± 2.083 χ^2/NDF : 19.0/11

Left: 1.100 ± 1.460 χ^2/NDF : 34.3/24

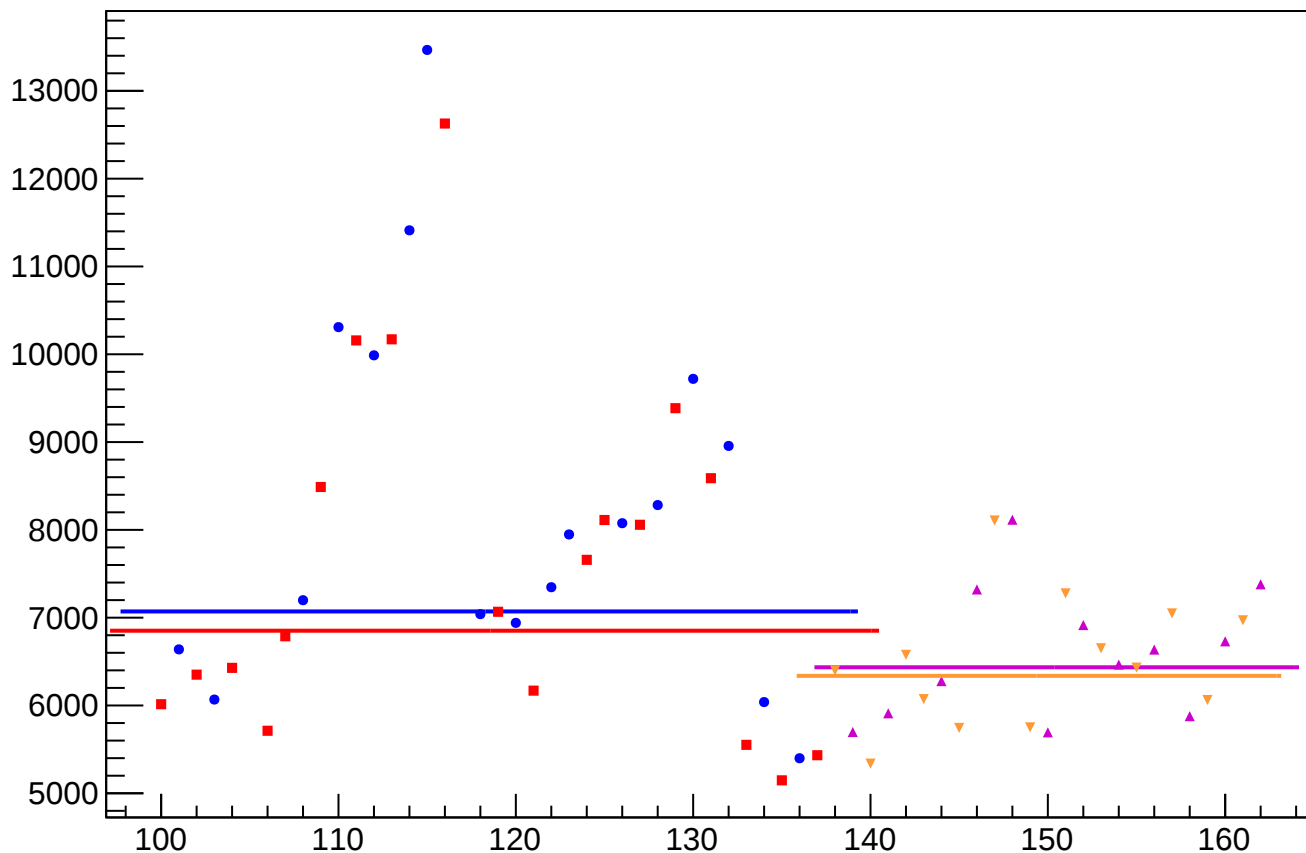
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -2.468 ± 1.669 χ^2/NDF : 34.0/28

Out: 1.121 ± 1.618 χ^2/NDF : 36.0/31

All: -0.617 ± 1.162 χ^2/NDF : 72.5/60

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043+/-1.973 χ^2/NDF : 600748.1/16

Left Out: 6337.359+/-1.448 χ^2/NDF : 227347.2/12

Right Out: 6851.604+/-1.866 χ^2/NDF : 684398.7/18

Left In: 6434.937+/-1.473 χ^2/NDF : 209616.4/11

Left: 6385.302+/-1.032 χ^2/NDF : 439196.0/24

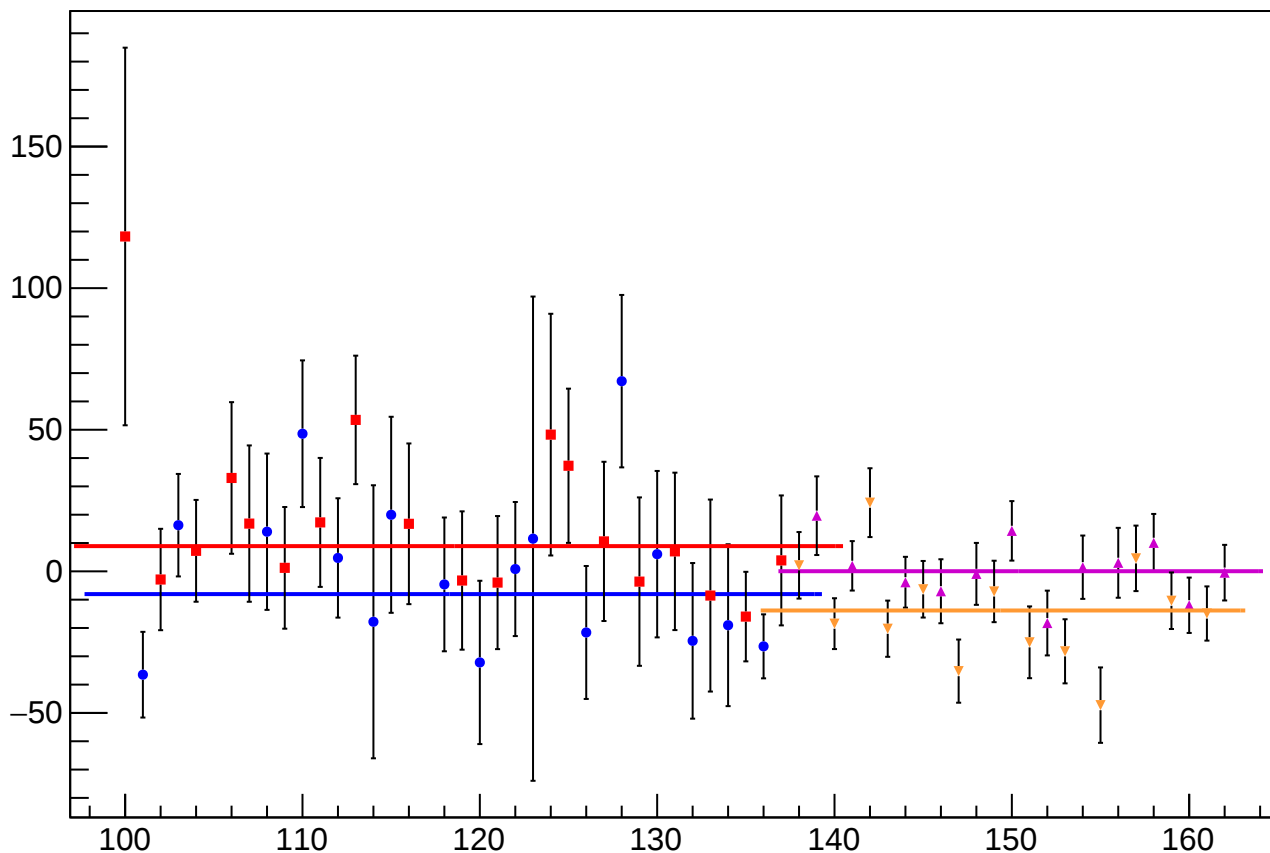
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6662.565+/-1.180 χ^2/NDF : 877107.1/28

Out: 6530.503+/-1.144 χ^2/NDF : 959143.6/31

All: 6594.465+/-0.821 χ^2/NDF : 1842706.2/60

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 $\pm$ 5.497 χ^2/NDF : 22.6/16

Left Out: -13.822 $\pm$ 2.998 χ^2/NDF : 28.4/12

Right Out: 8.907 $\pm$ 5.566 χ^2/NDF : 13.7/18

Left In: 0.047 $\pm$ 3.034 χ^2/NDF : 9.6/11

Left: -6.970 $\pm$ 2.133 χ^2/NDF : 48.5/24

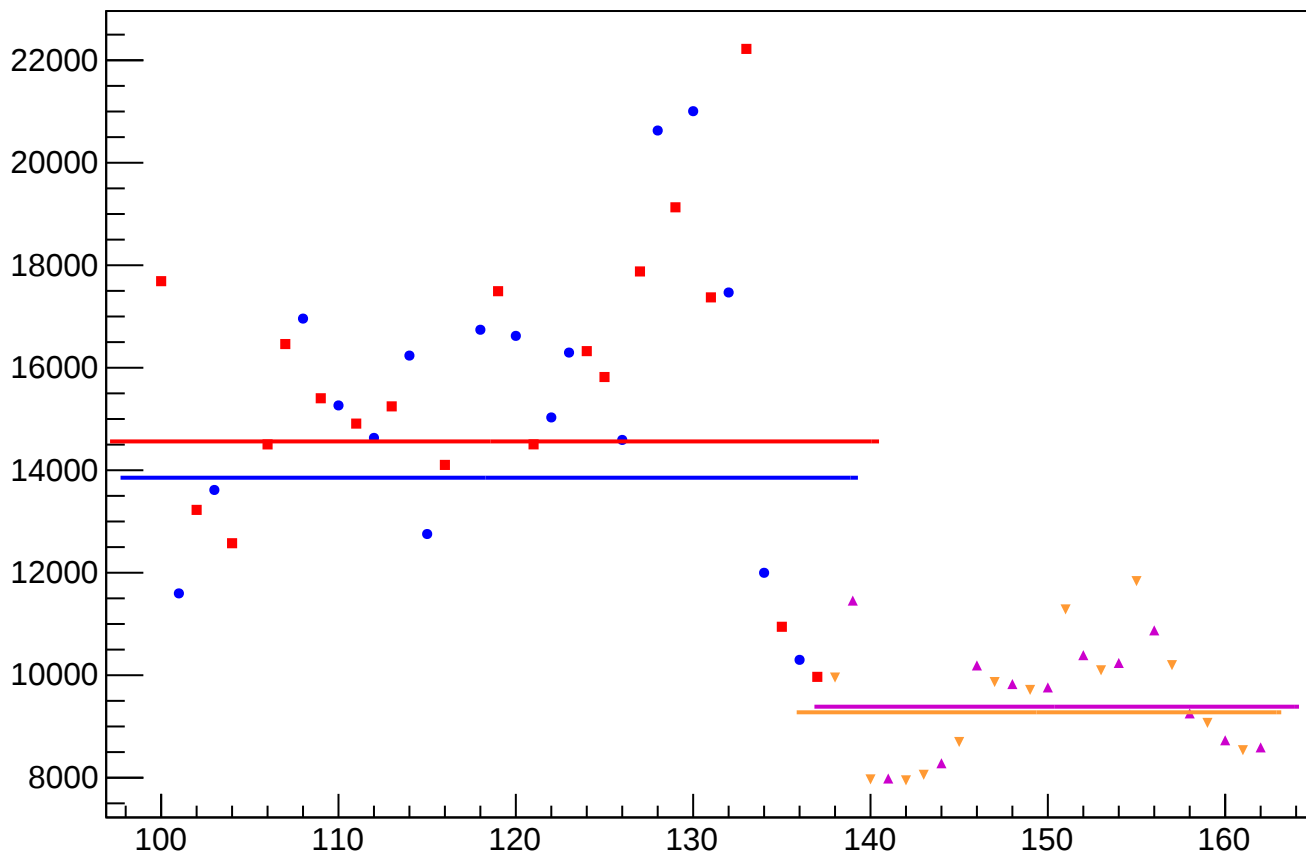
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -1.840 $\pm$ 2.656 χ^2/NDF : 33.8/28

Out: -8.710 $\pm$ 2.640 χ^2/NDF : 55.0/31

All: -5.297 $\pm$ 1.872 χ^2/NDF : 92.1/60

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187+/-3.887 χ^2/NDF : 600963.4/16

Left Out: 9276.485+/-2.120 χ^2/NDF : 278883.1/12

Right Out: 14562.308+/-3.936 χ^2/NDF : 474279.5/18

Left In: 9386.121+/-2.145 χ^2/NDF : 220863.5/11

Left: 9330.656+/-1.508 χ^2/NDF : 501067.9/24

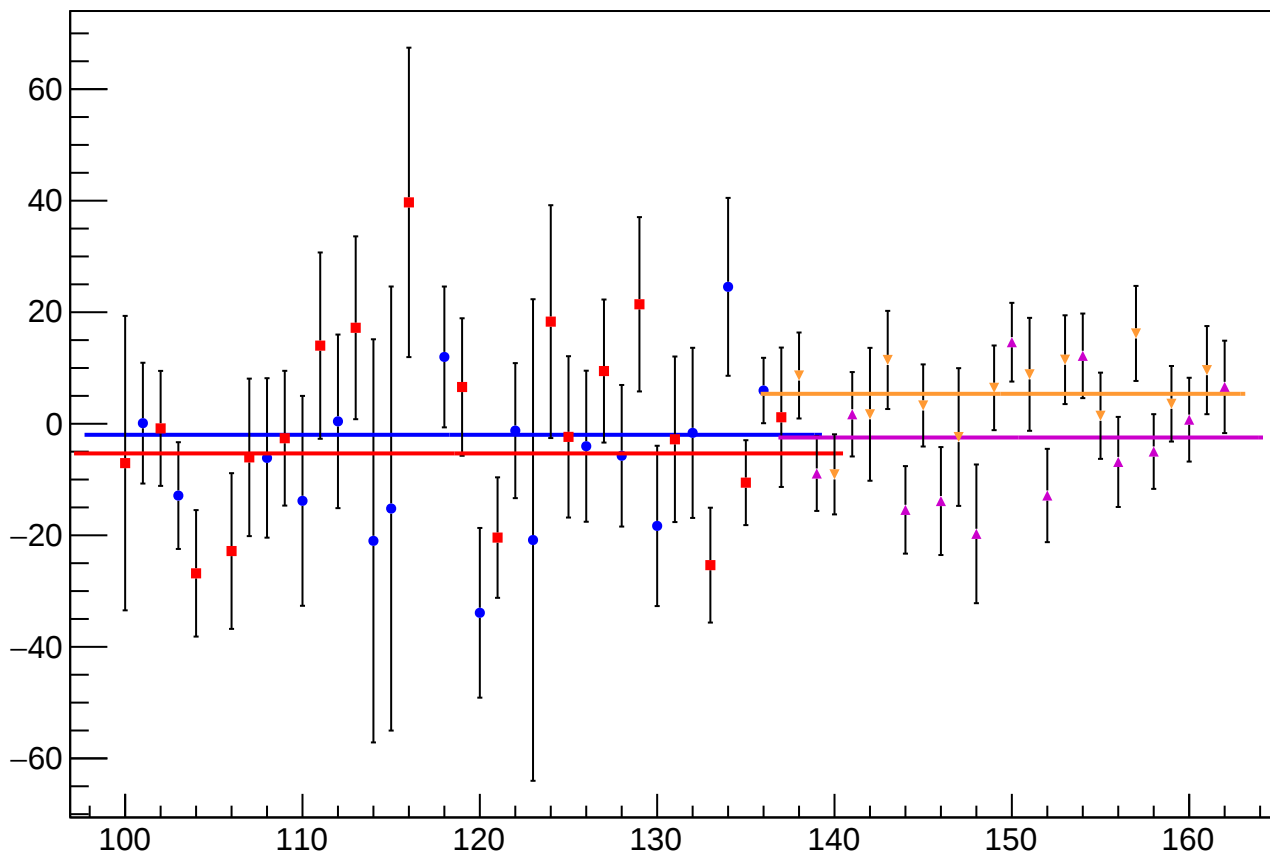
Right: 14203.845+/-2.766 χ^2/NDF : 1091628.8/35

In: 10429.273+/-1.878 χ^2/NDF : 1834539.8/28

Out: 10465.284+/-1.867 χ^2/NDF : 2151134.9/31

All: 10447.391+/-1.324 χ^2/NDF : 3985859.7/60

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 χ^2/NDF : 14.0/16

Left Out: 5.371 ± 2.280 χ^2/NDF : 8.2/12

Right Out: -5.318 ± 2.959 χ^2/NDF : 24.3/18

Left In: -2.462 ± 2.266 χ^2/NDF : 20.2/11

Left: 1.431 ± 1.607 χ^2/NDF : 34.4/24

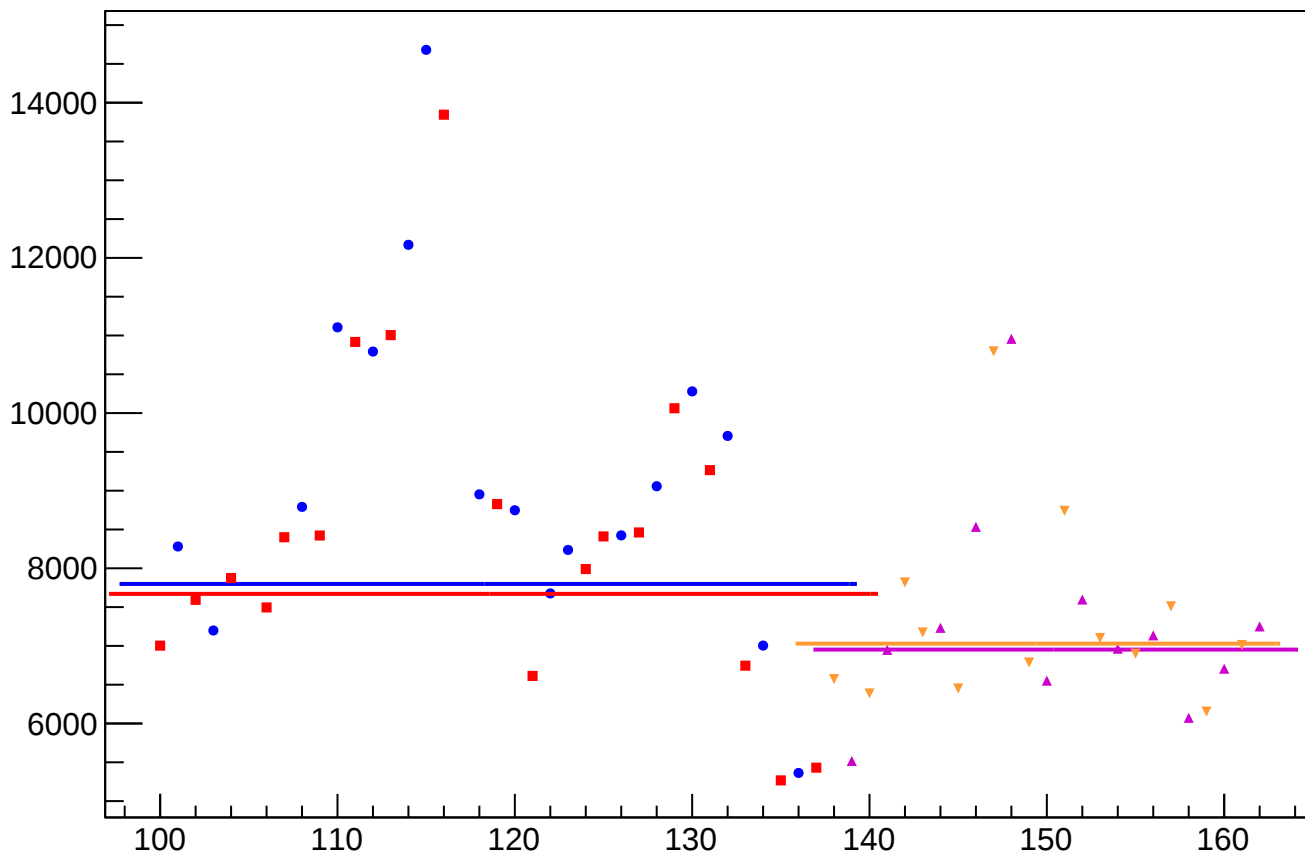
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -2.293 ± 1.828 χ^2/NDF : 34.3/28

Out: 1.388 ± 1.806 χ^2/NDF : 40.7/31

All: -0.430 ± 1.285 χ^2/NDF : 77.1/60

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267 $\pm$ 2.188 χ^2/NDF : 736283.6/16

Left Out: 7029.272 $\pm$ 1.612 χ^2/NDF : 330477.1/12

Right Out: 7670.584 $\pm$ 2.092 χ^2/NDF : 672691.0/18

Left In: 6952.312 $\pm$ 1.602 χ^2/NDF : 413441.1/11

Left: 6990.562 $\pm$ 1.136 χ^2/NDF : 745064.6/24

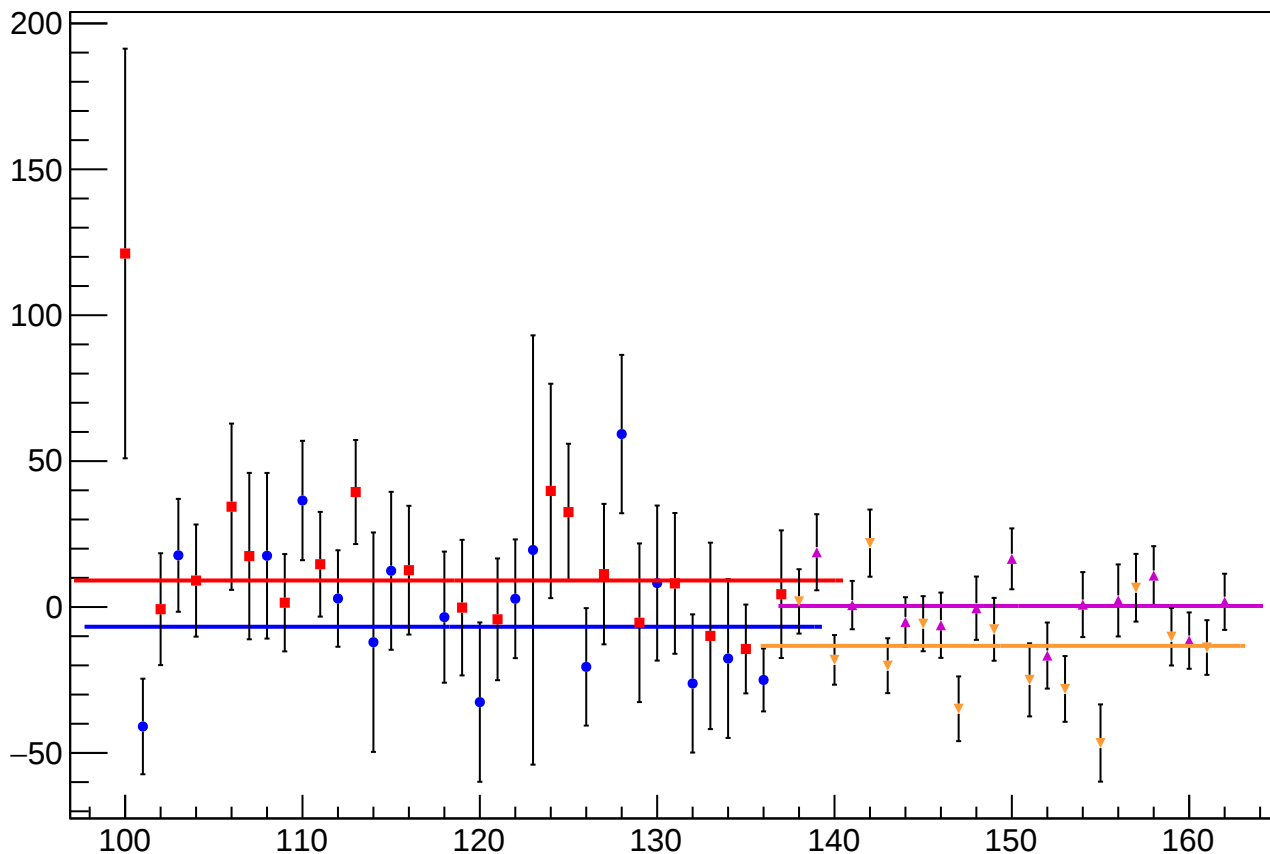
Right: 7731.569 $\pm$ 1.512 χ^2/NDF : 1410753.9/35

In: 7247.696 $\pm$ 1.293 χ^2/NDF : 1247035.9/28

Out: 7268.210 $\pm$ 1.277 χ^2/NDF : 1062132.0/31

All: 7258.079 $\pm$ 0.908 χ^2/NDF : 2309295.3/60

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 ± 5.085 χ^2/NDF : 23.7/16

Left Out: -13.312 ± 2.911 χ^2/NDF : 28.8/12

Right Out: 9.102 ± 5.070 χ^2/NDF : 12.2/18

Left In: 0.367 ± 2.964 χ^2/NDF : 10.0/11

Left: -6.596 ± 2.077 χ^2/NDF : 49.7/24

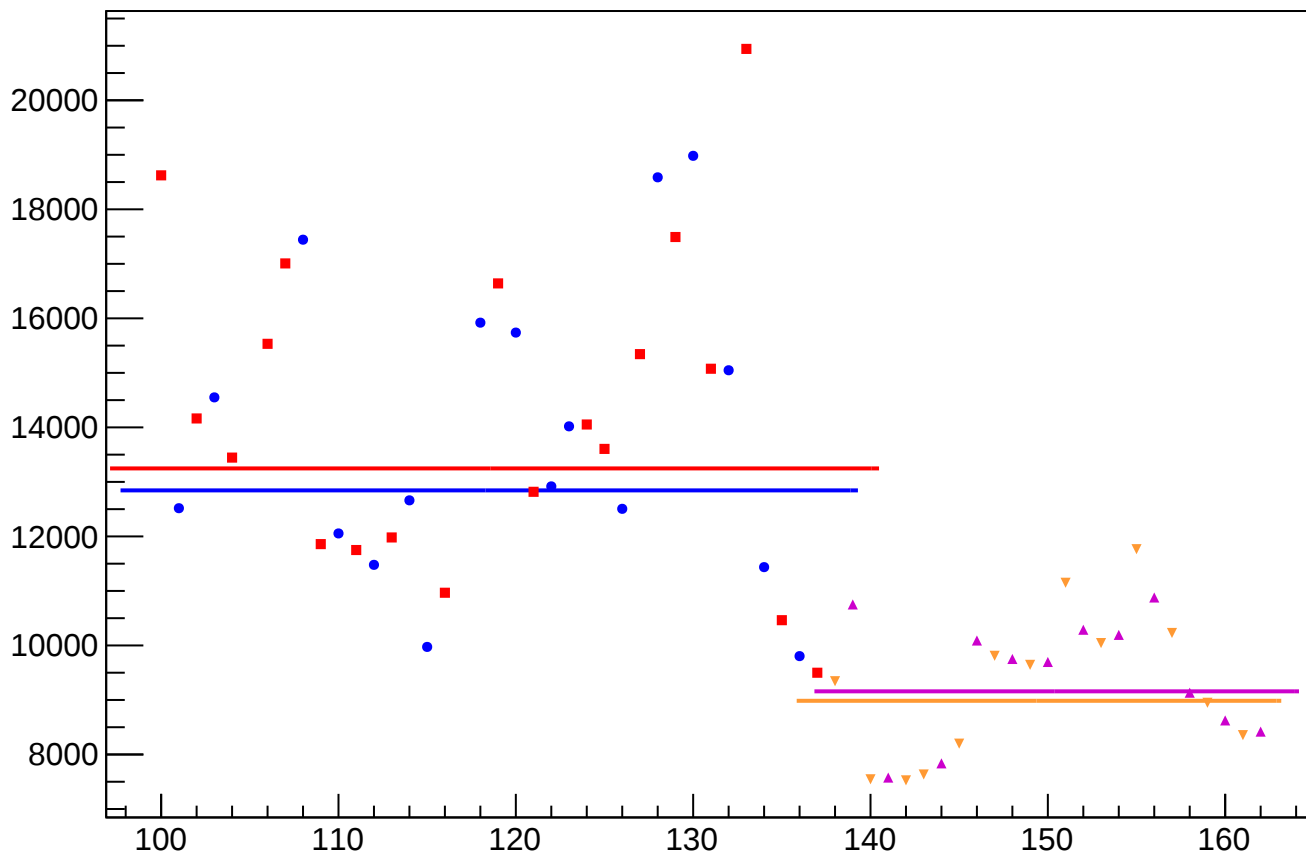
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -1.441 ± 2.561 χ^2/NDF : 35.2/28

Out: -7.756 ± 2.525 χ^2/NDF : 55.7/31

All: -4.643 ± 1.798 χ^2/NDF : 94.0/60

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12844.321 $\pm$ 3.595 χ^2/NDF : 547271.0/16

Left Out: 8984.788 $\pm$ 2.058 χ^2/NDF : 363316.2/12

Right Out: 13247.253 $\pm$ 3.585 χ^2/NDF : 485481.6/18

Left In: 9158.209 $\pm$ 2.096 χ^2/NDF : 270494.8/11

Left: 9069.932 $\pm$ 1.469 χ^2/NDF : 637295.9/24

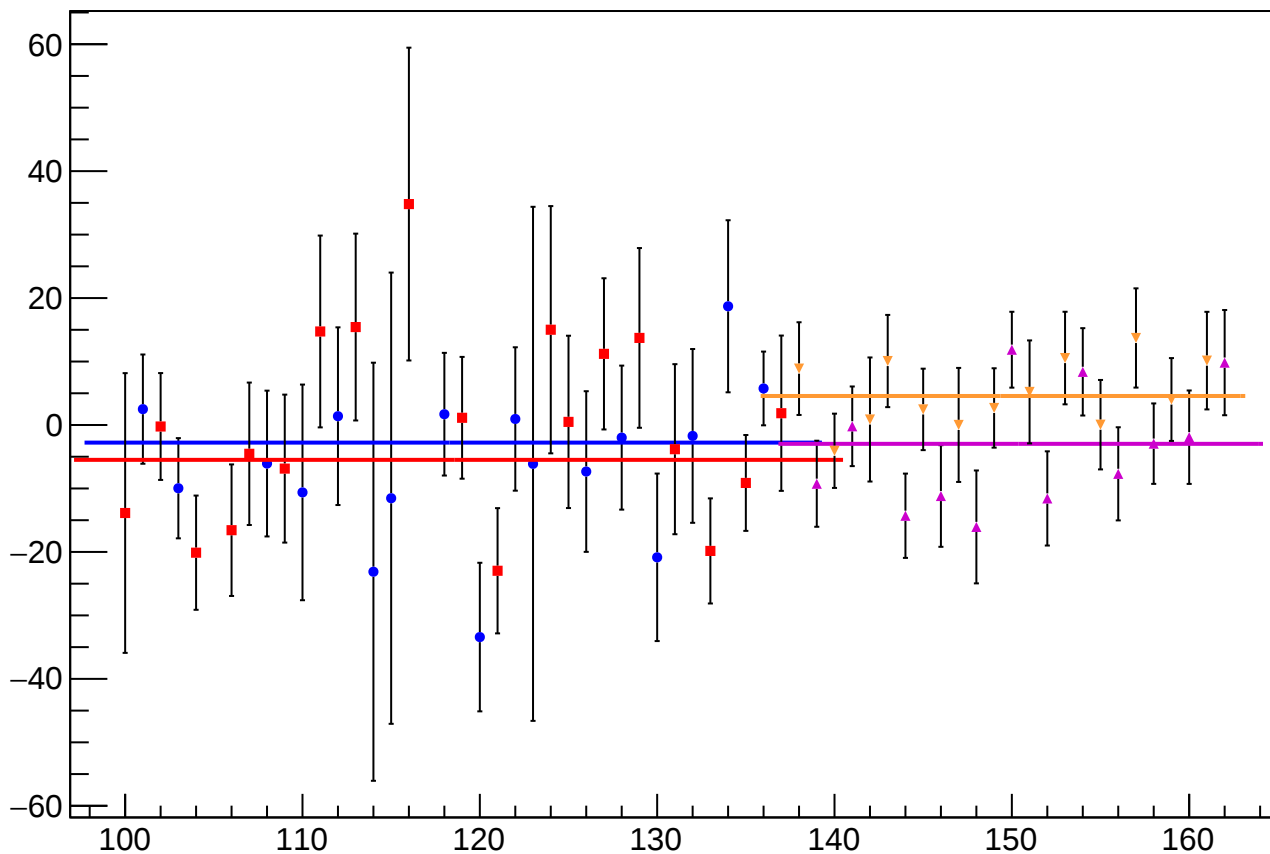
Right: 13046.351 $\pm$ 2.539 χ^2/NDF : 1039049.9/35

In: 10093.136 $\pm$ 1.811 χ^2/NDF : 1602257.1/28

Out: 10041.440 $\pm$ 1.785 χ^2/NDF : 1911795.8/31

All: 10066.920 $\pm$ 1.271 χ^2/NDF : 3514466.3/6

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774±2.732 χ^2/NDF : 15.9/16

Left Out: 4.572±1.998 χ^2/NDF : 6.7/12

Right Out: -5.491±2.587 χ^2/NDF : 23.2/18

Left In: -2.968±2.034 χ^2/NDF : 20.2/11

Left: 0.869±1.425 χ^2/NDF : 33.9/24

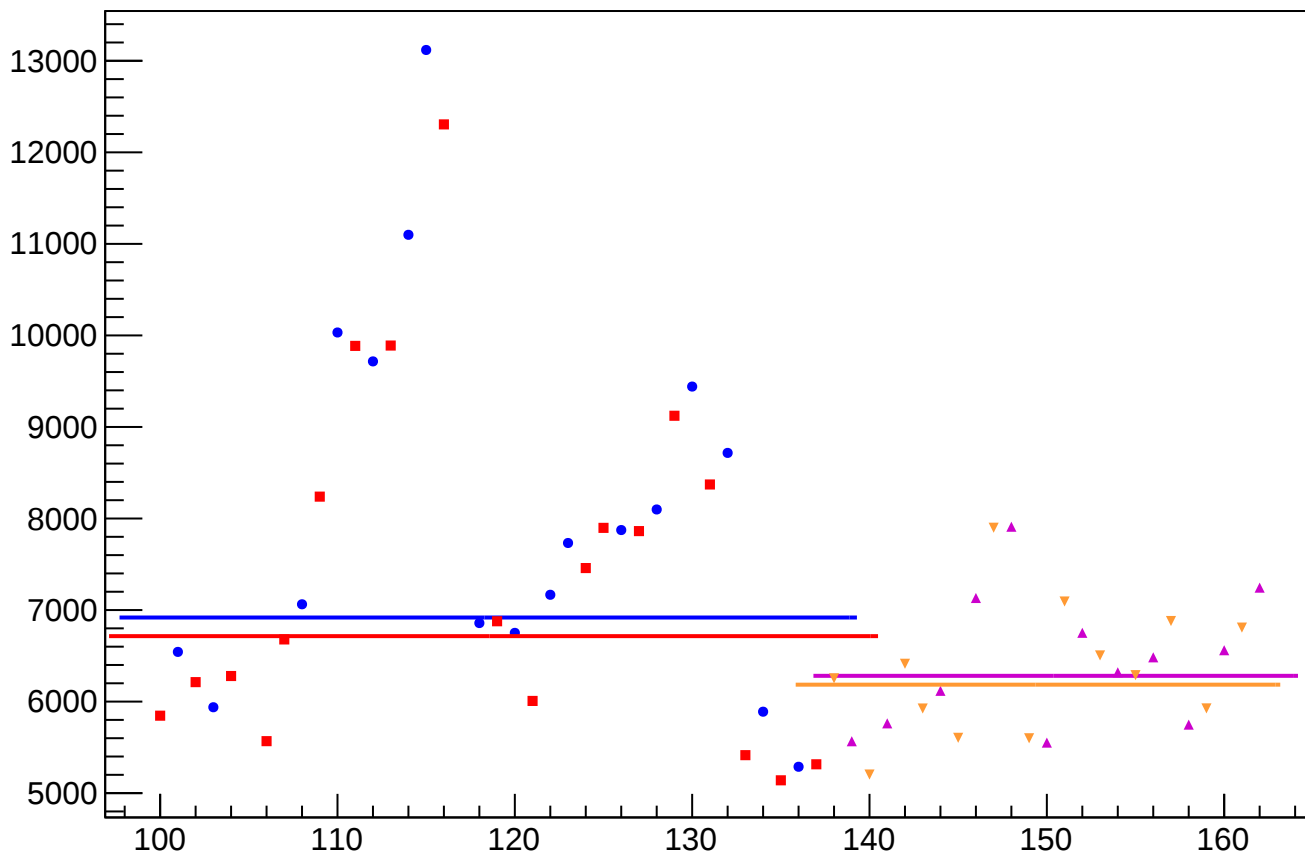
Right: -4.206±1.879 χ^2/NDF : 39.6/35

In: -2.899±1.631 χ^2/NDF : 36.1/28

Out: 0.813±1.581 χ^2/NDF : 39.3/31

All: -0.985±1.135 χ^2/NDF : 78.1/60

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477+/-1.932 χ^2/NDF : 587039.3/16

Left Out: 6184.864+/-1.413 χ^2/NDF : 228337.5/12

Right Out: 6715.022+/-1.830 χ^2/NDF : 656010.3/18

Left In: 6281.499+/-1.438 χ^2/NDF : 210207.3/11

Left: 6232.330+/-1.008 χ^2/NDF : 440842.9/24

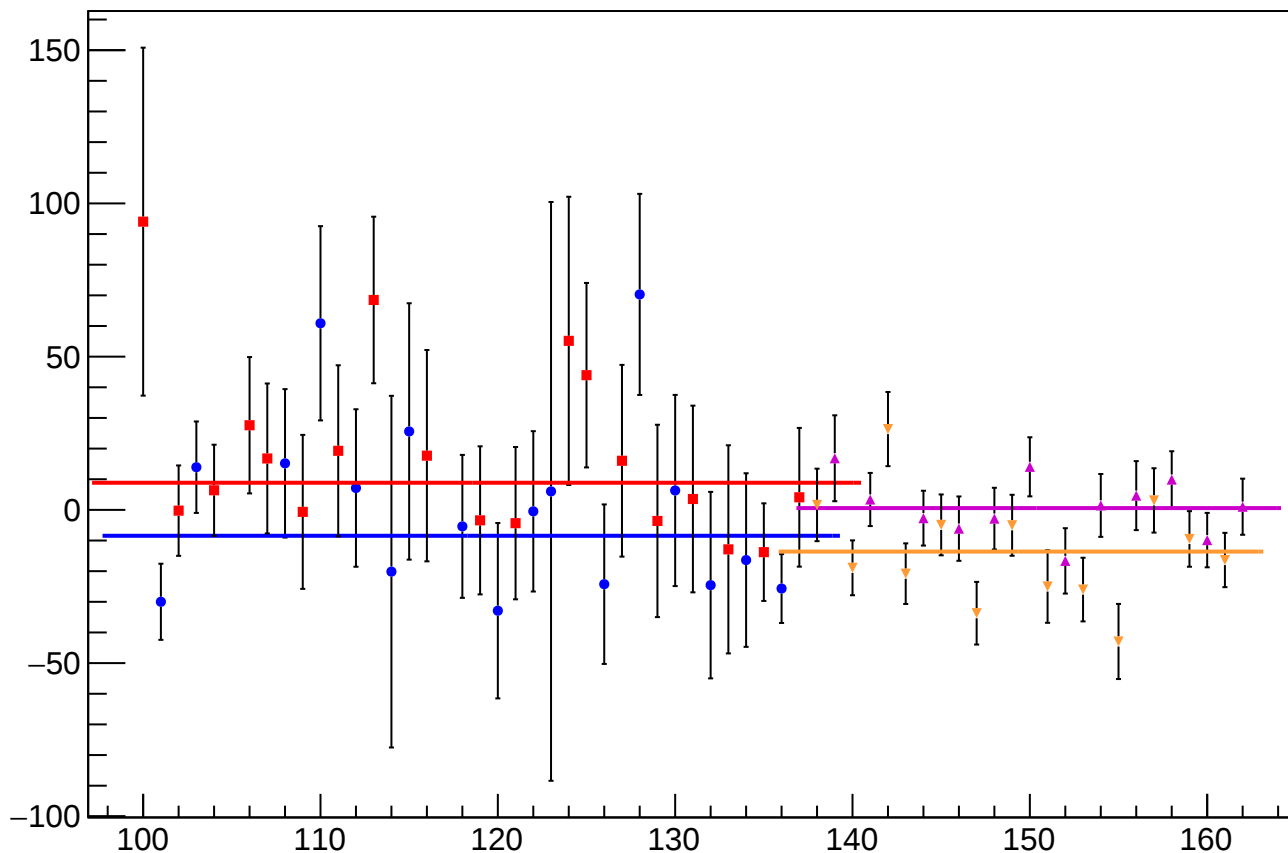
Right: 6811.237+/-1.328 χ^2/NDF : 1248897.6/35

In: 6508.627+/-1.153 χ^2/NDF : 867219.0/28

Out: 6382.900+/-1.118 χ^2/NDF : 936948.8/31

All: 6443.816+/-0.803 χ^2/NDF : 1810292.8/60

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 ± 5.393 $\chi^2/\text{NDF}: 22.0/16$

Left Out: -13.608 ± 2.845 $\chi^2/\text{NDF}: 29.7/12$

Right Out: 8.854 ± 5.508 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.583 ± 2.850 $\chi^2/\text{NDF}: 9.2/11$

Left: -6.524 ± 2.014 $\chi^2/\text{NDF}: 51.4/24$

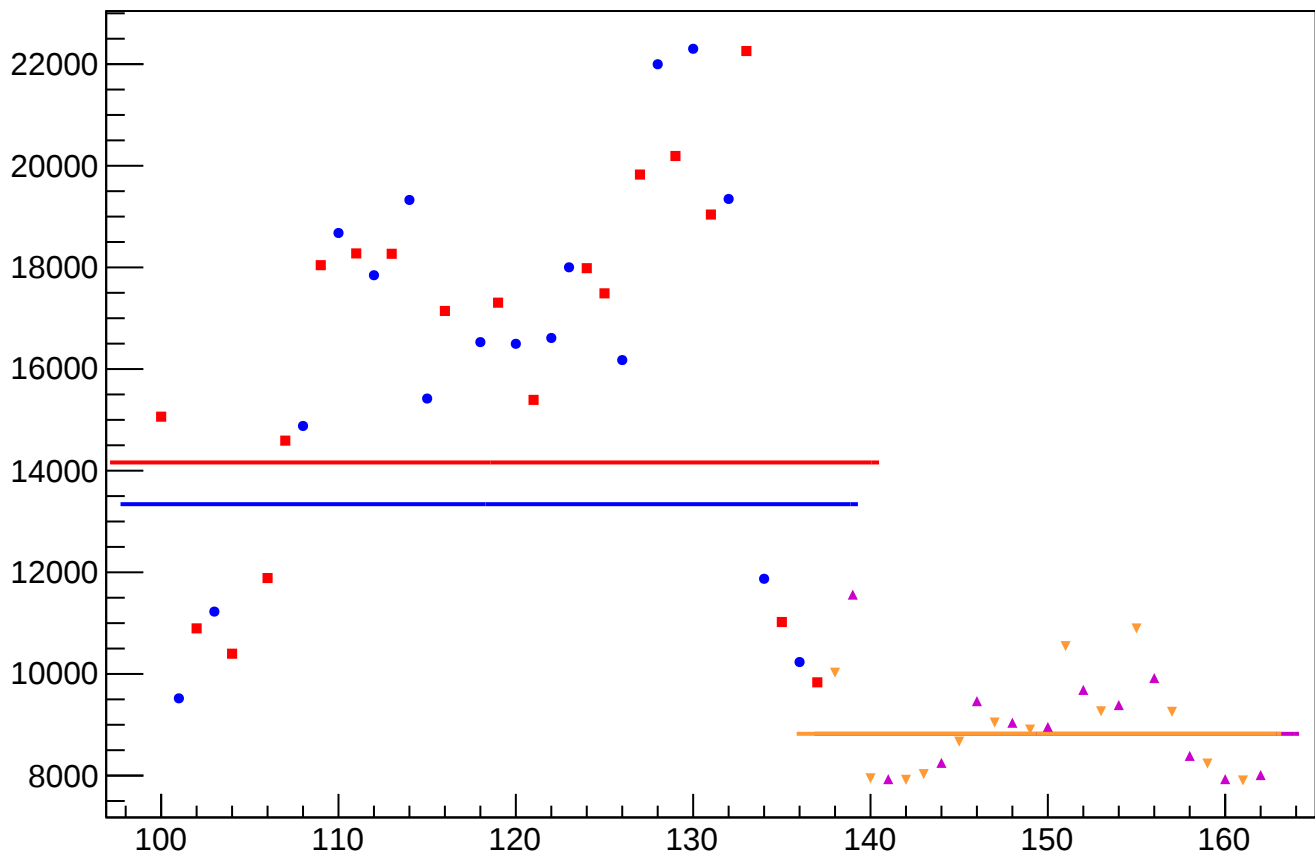
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: -1.389 ± 2.520 $\chi^2/\text{NDF}: 33.4/28$

Out: -8.877 ± 2.528 $\chi^2/\text{NDF}: 57.1/31$

All: -5.121 ± 1.785 $\chi^2/\text{NDF}: 94.9/60$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13340.948 $\pm$ 3.813 χ^2 /NDF: 1044569.8/16

Left Out: 8822.609 $\pm$ 2.012 χ^2 /NDF: 201847.9/12

Right Out: 14161.826 $\pm$ 3.895 χ^2 /NDF: 931787.3/18

Left In: 8821.777 $\pm$ 2.015 χ^2 /NDF: 193052.8/11

Left: 8822.194 $\pm$ 1.424 χ^2 /NDF: 394900.8/24

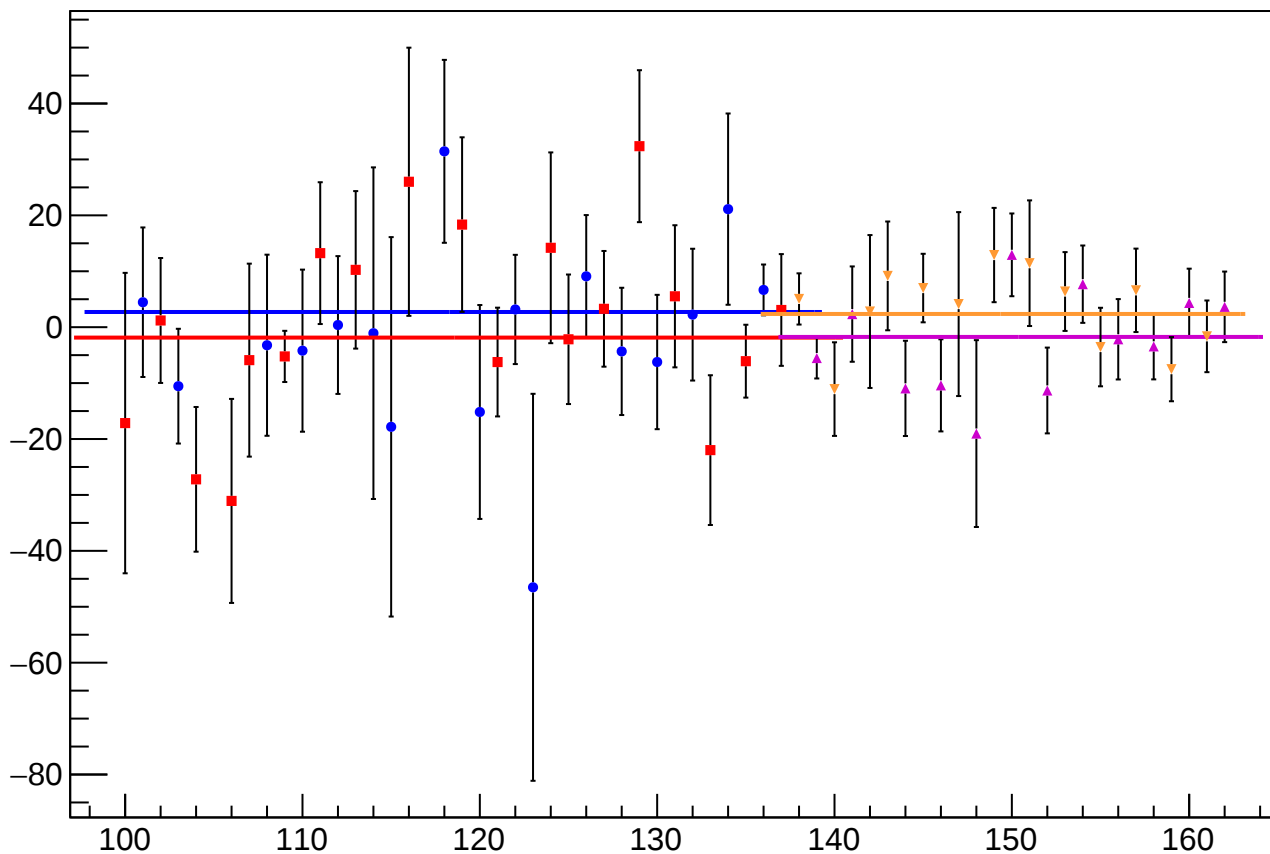
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9808.314 $\pm$ 1.782 χ^2 /NDF: 2335462.6/28

Out: 9947.225 $\pm$ 1.788 χ^2 /NDF: 2616899.2/31

All: 9877.540 $\pm$ 1.262 χ^2 /NDF: 4955391.1/60

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 $\chi^2/\text{NDF}: 11.6/16$

Left Out: 2.365 ± 2.027 $\chi^2/\text{NDF}: 10.9/12$

Right Out: -1.861 ± 2.439 $\chi^2/\text{NDF}: 23.5/18$

Left In: -1.742 ± 1.901 $\chi^2/\text{NDF}: 13.8/11$

Left: 0.179 ± 1.387 $\chi^2/\text{NDF}: 26.9/24$

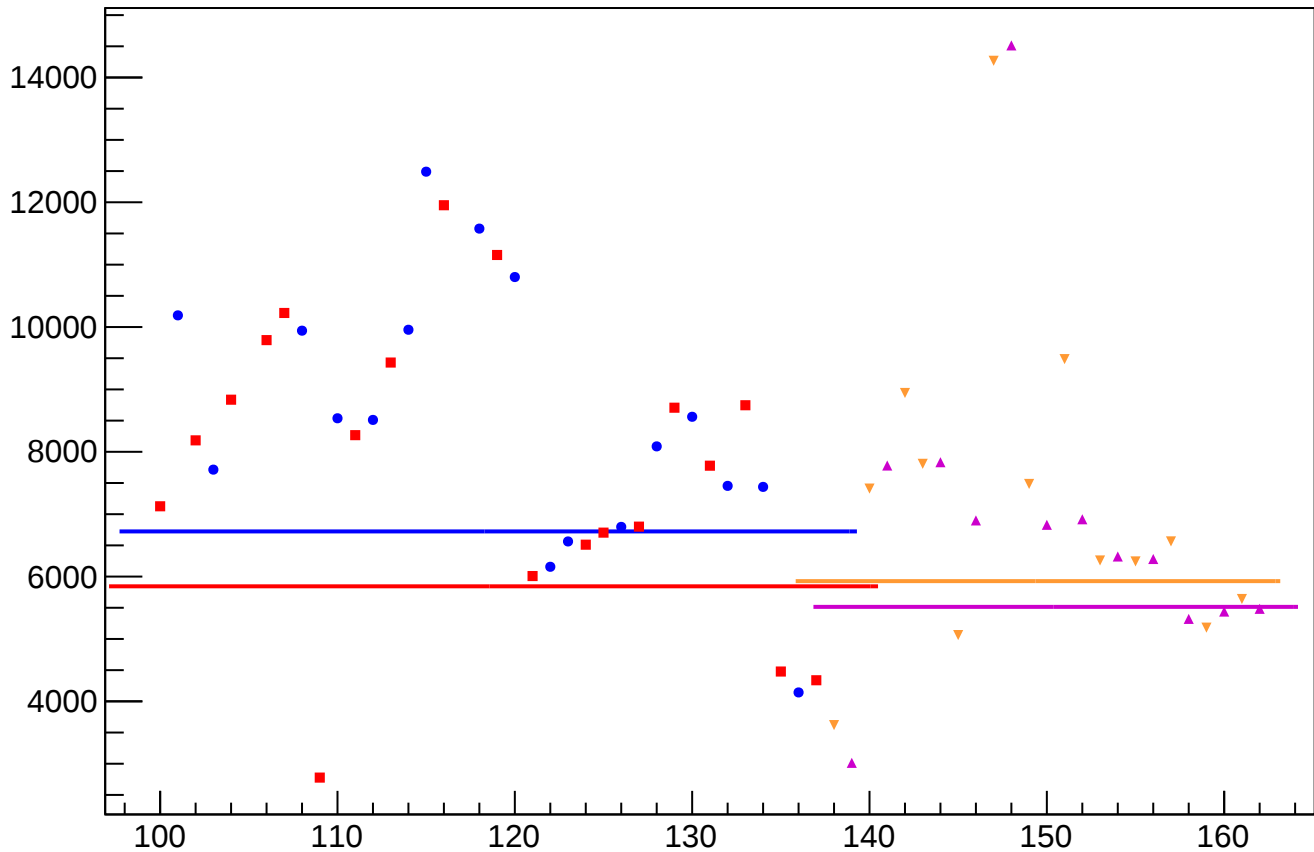
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: -0.302 ± 1.564 $\chi^2/\text{NDF}: 27.2/28$

Out: 0.638 ± 1.559 $\chi^2/\text{NDF}: 36.2/31$

All: 0.170 ± 1.104 $\chi^2/\text{NDF}: 63.6/60$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839+/-1.946 χ^2/NDF : 1392082.5/16

Left Out: 5926.905+/-1.434 χ^2/NDF : 1626597.0/12

Right Out: 5843.829+/-1.725 χ^2/NDF : 2277223.8/18

Left In: 5514.496+/-1.344 χ^2/NDF : 2044960.1/11

Left: 5707.438+/-0.981 χ^2/NDF : 3715594.0/24

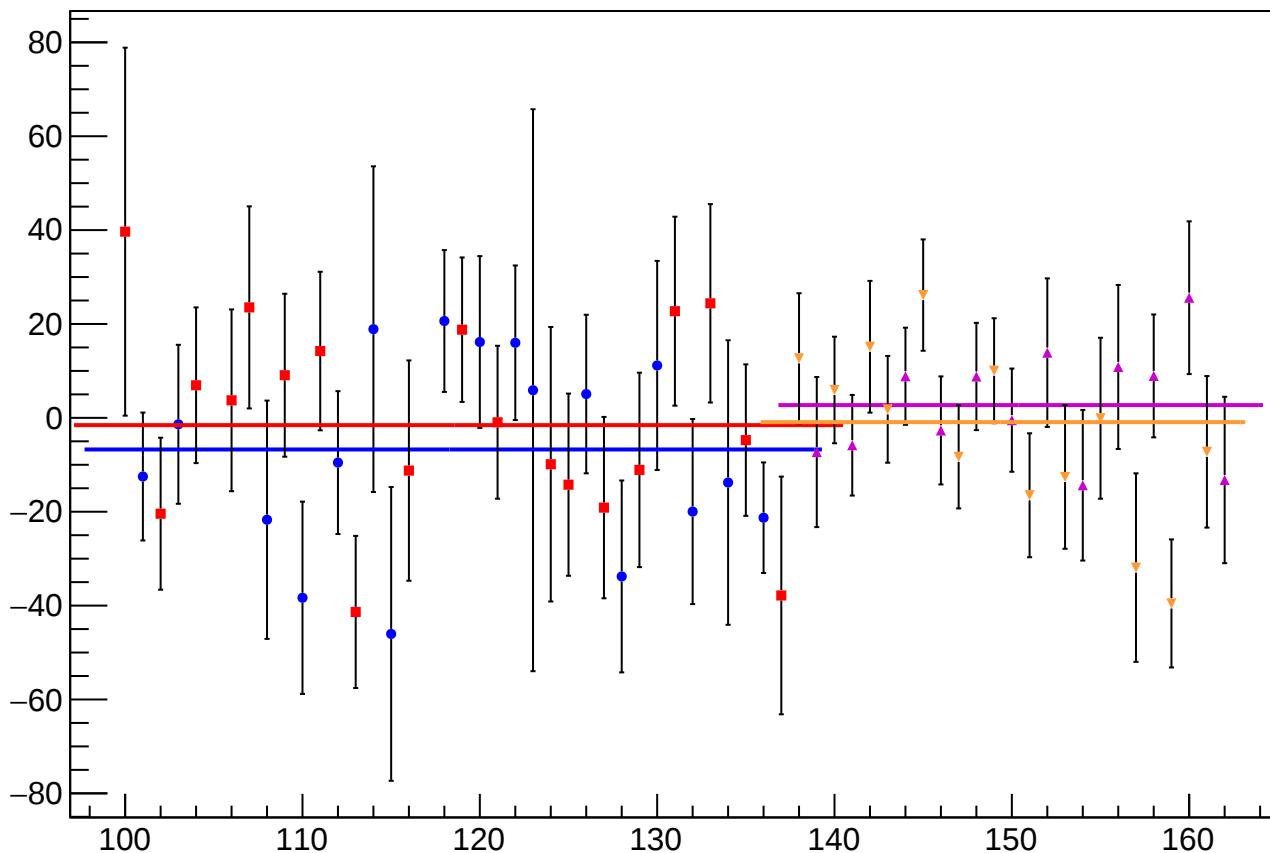
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5905.144+/-1.106 χ^2/NDF : 3698497.5/28

Out: 5892.955+/-1.102 χ^2/NDF : 3905193.1/31

All: 5899.030+/-0.781 χ^2/NDF : 7603751.5/60

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 $\pm$ 4.513 χ^2/NDF : 16.9/16

Left Out: -0.914 $\pm$ 3.669 χ^2/NDF : 21.9/12

Right Out: -1.549 $\pm$ 4.372 χ^2/NDF : 20.0/18

Left In: 2.718 $\pm$ 3.797 χ^2/NDF : 6.8/11

Left: 0.840 $\pm$ 2.638 χ^2/NDF : 29.2/24

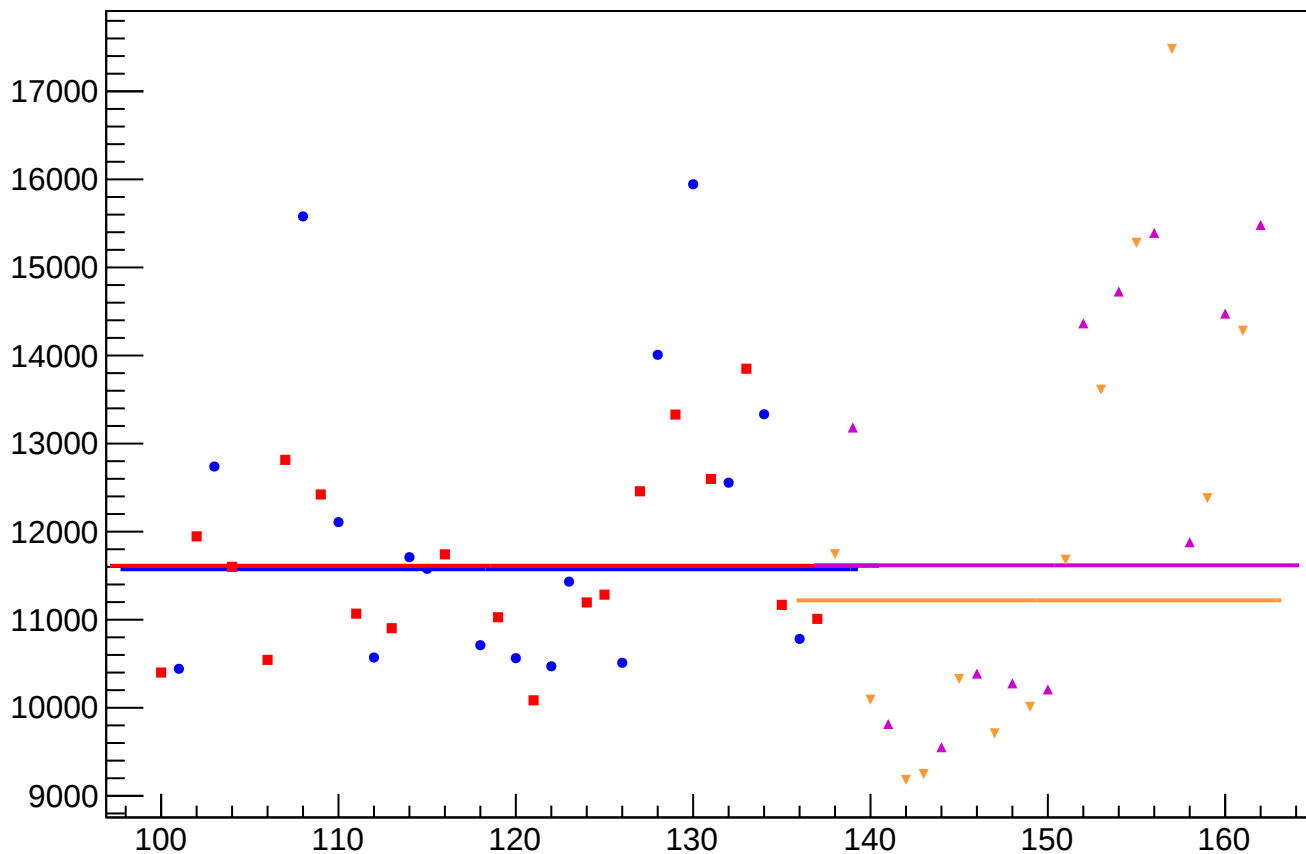
Right: -4.061 $\pm$ 3.140 χ^2/NDF : 37.5/35

In: -1.200 $\pm$ 2.905 χ^2/NDF : 26.3/28

Out: -1.176 $\pm$ 2.811 χ^2/NDF : 41.8/31

All: -1.188 $\pm$ 2.020 χ^2/NDF : 68.1/60

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.490+/-3.191 χ^2/NDF : 238734.7/16

Left Out: 11219.536+/-2.594 χ^2/NDF : 641740.7/12

Right Out: 11612.220+/-3.092 χ^2/NDF : 94308.1/18

Left In: 11617.578+/-2.685 χ^2/NDF : 624769.0/11

Left: 11411.751+/-1.866 χ^2/NDF : 1277877.0/24

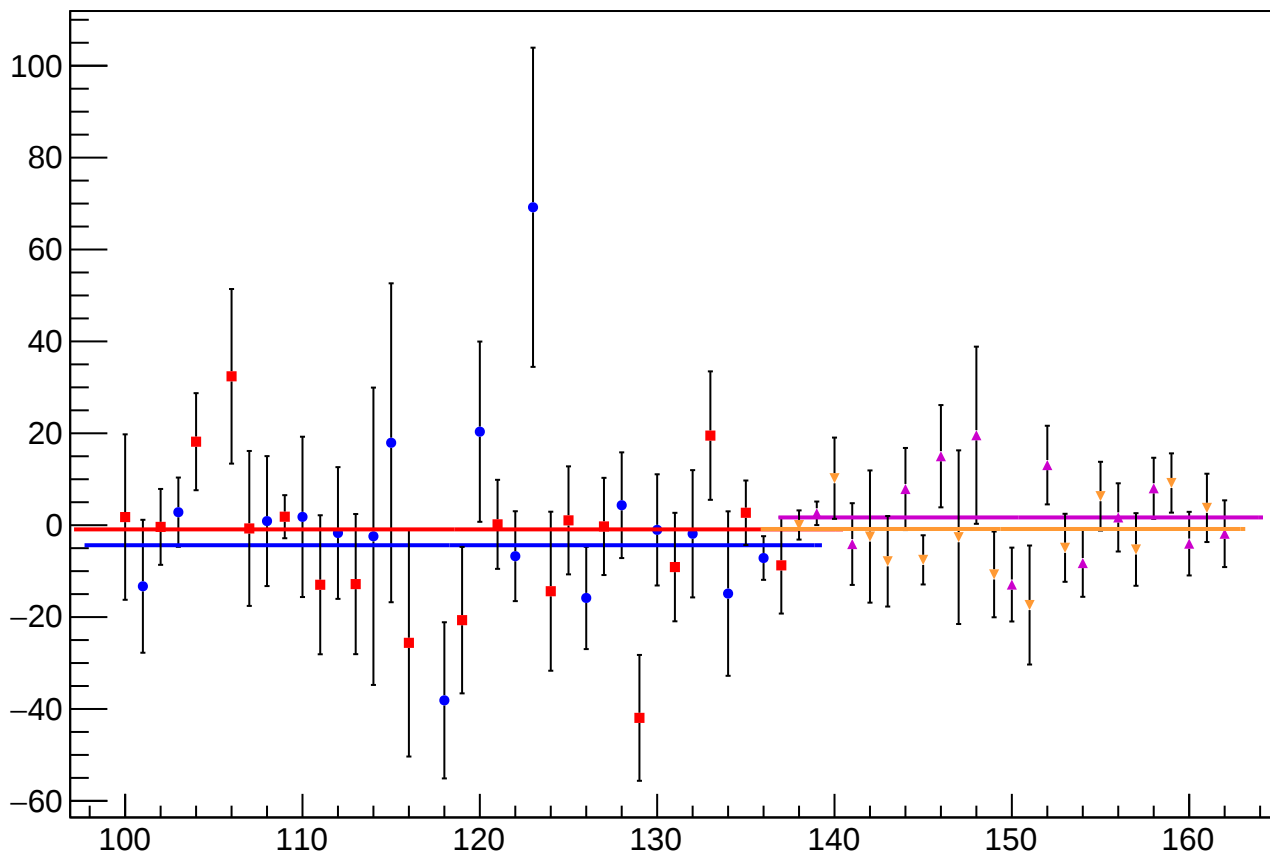
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11599.306+/-2.054 χ^2/NDF : 863615.5/28

Out: 11381.790+/-1.987 χ^2/NDF : 745515.1/31

All: 11486.944+/-1.428 χ^2/NDF : 1614921.7/6

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 ± 2.776 χ^2/NDF : 14.5/16

Left Out: -0.825 ± 1.902 χ^2/NDF : 10.8/12

Right Out: -0.914 ± 2.426 χ^2/NDF : 23.5/18

Left In: 1.689 ± 1.777 χ^2/NDF : 12.1/11

Left: 0.517 ± 1.299 χ^2/NDF : 23.8/24

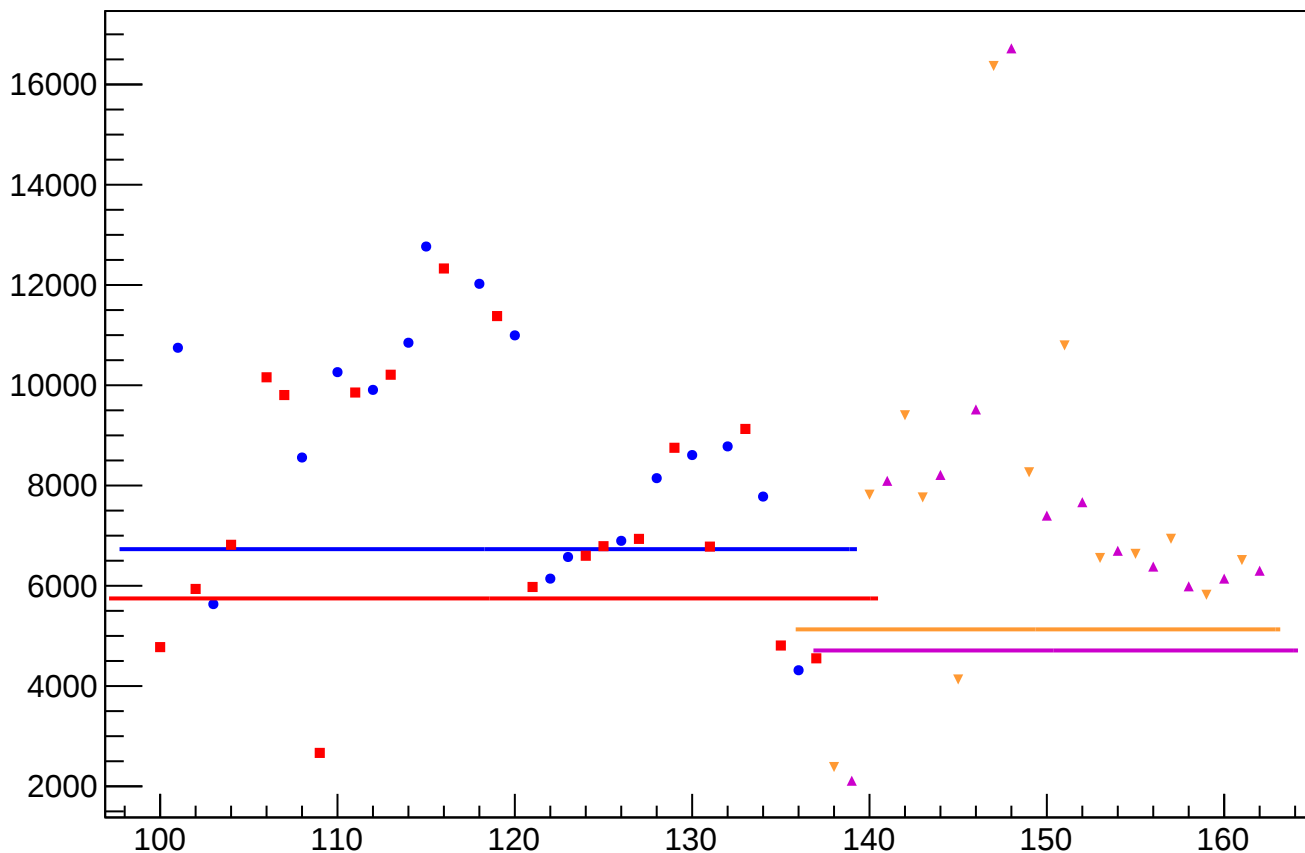
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: -0.070 ± 1.497 χ^2/NDF : 29.9/28

Out: -0.859 ± 1.497 χ^2/NDF : 34.4/31

All: -0.464 ± 1.058 χ^2/NDF : 64.4/60

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 $\pm$ 1.963 χ^2 /NDF: 1445240.4/16

Left Out: 5130.469 $\pm$ 1.345 χ^2 /NDF: 3733837.0/12

Right Out: 5747.643 $\pm$ 1.716 χ^2 /NDF: 2162236.7/18

Left In: 4709.796 $\pm$ 1.257 χ^2 /NDF: 4771345.3/11

Left: 4905.830 $\pm$ 0.918 χ^2 /NDF: 8557414.6/24

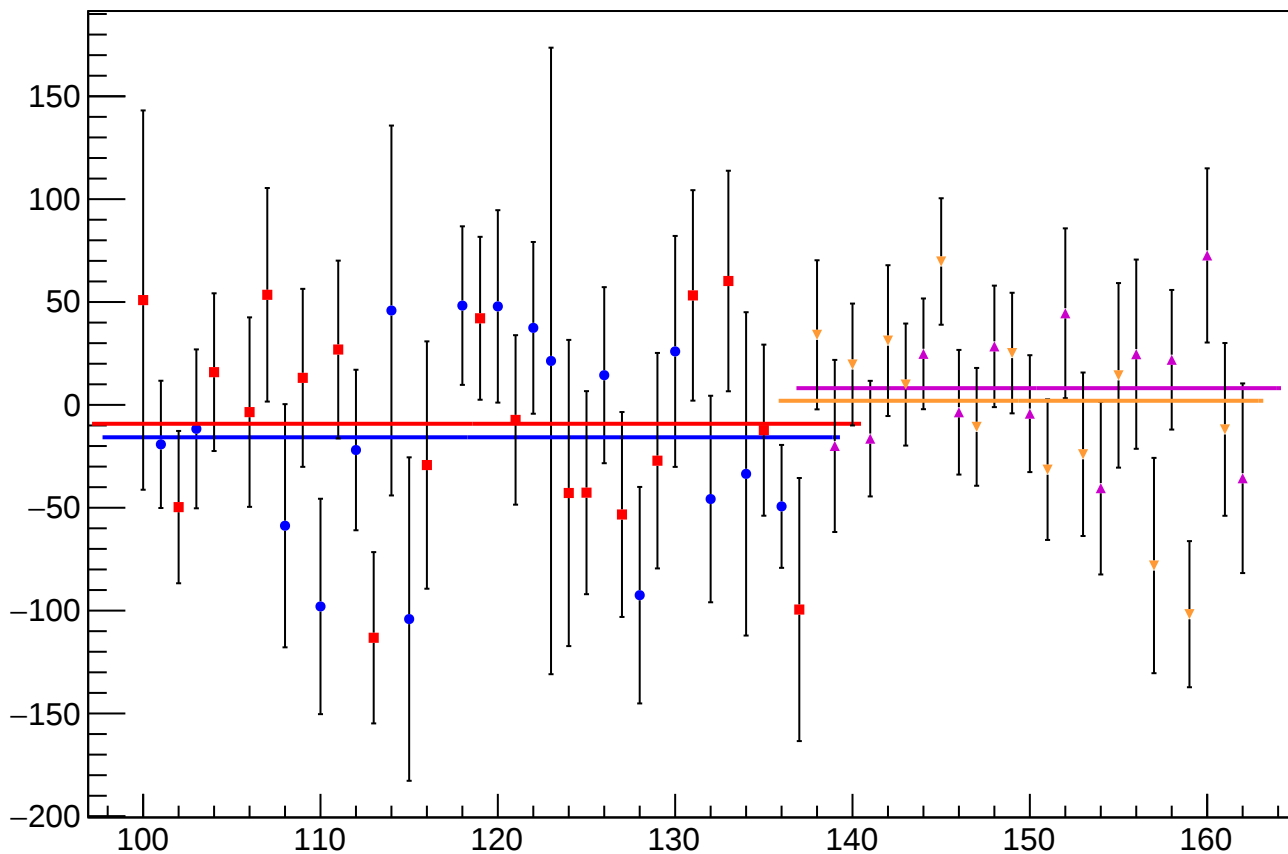
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5297.117 $\pm$ 1.058 χ^2 /NDF: 6968361.6/28

Out: 5365.436 $\pm$ 1.059 χ^2 /NDF: 5976227.3/31

All: 5331.270 $\pm$ 0.748 χ^2 /NDF: 12946672.2/66

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 $\pm$ 11.207 χ^2/NDF : 15.9/16

Left Out: 1.999 $\pm$ 9.562 χ^2/NDF : 20.0/12

Right Out: -9.179 $\pm$ 10.889 χ^2/NDF : 19.3/18

Left In: 8.131 $\pm$ 9.892 χ^2/NDF : 8.0/11

Left: 4.961 $\pm$ 6.875 χ^2/NDF : 28.2/24

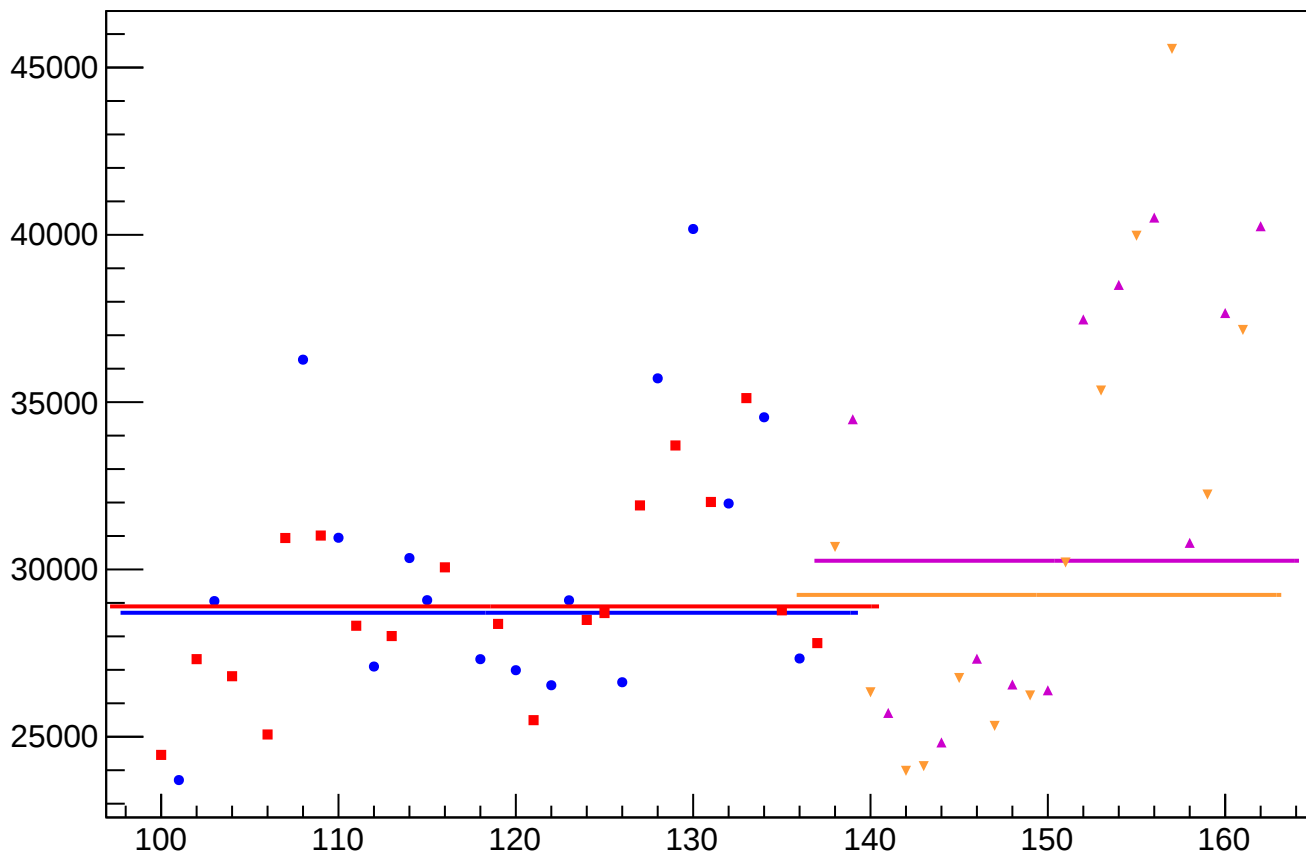
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -2.326 $\pm$ 7.416 χ^2/NDF : 26.5/28

Out: -2.868 $\pm$ 7.185 χ^2/NDF : 39.8/31

All: -2.606 $\pm$ 5.160 χ^2/NDF : 66.3/60

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569 $\pm$ 7.925

χ^2/NDF : 250992.5/16

Left: 29732.383 $\pm$ 4.861

χ^2/NDF : 1283728.9/24

Left Out: 29239.397 $\pm$ 6.762

χ^2/NDF : 637838.0/12

Right: 28803.288 $\pm$ 5.522

χ^2/NDF : 362500.7/35

Right Out: 28895.535 $\pm$ 7.700

χ^2/NDF : 111212.6/18

In: 29579.297 $\pm$ 5.244

χ^2/NDF : 907503.3/28

Out: 29089.681 $\pm$ 5.081

χ^2/NDF : 750176.7/31

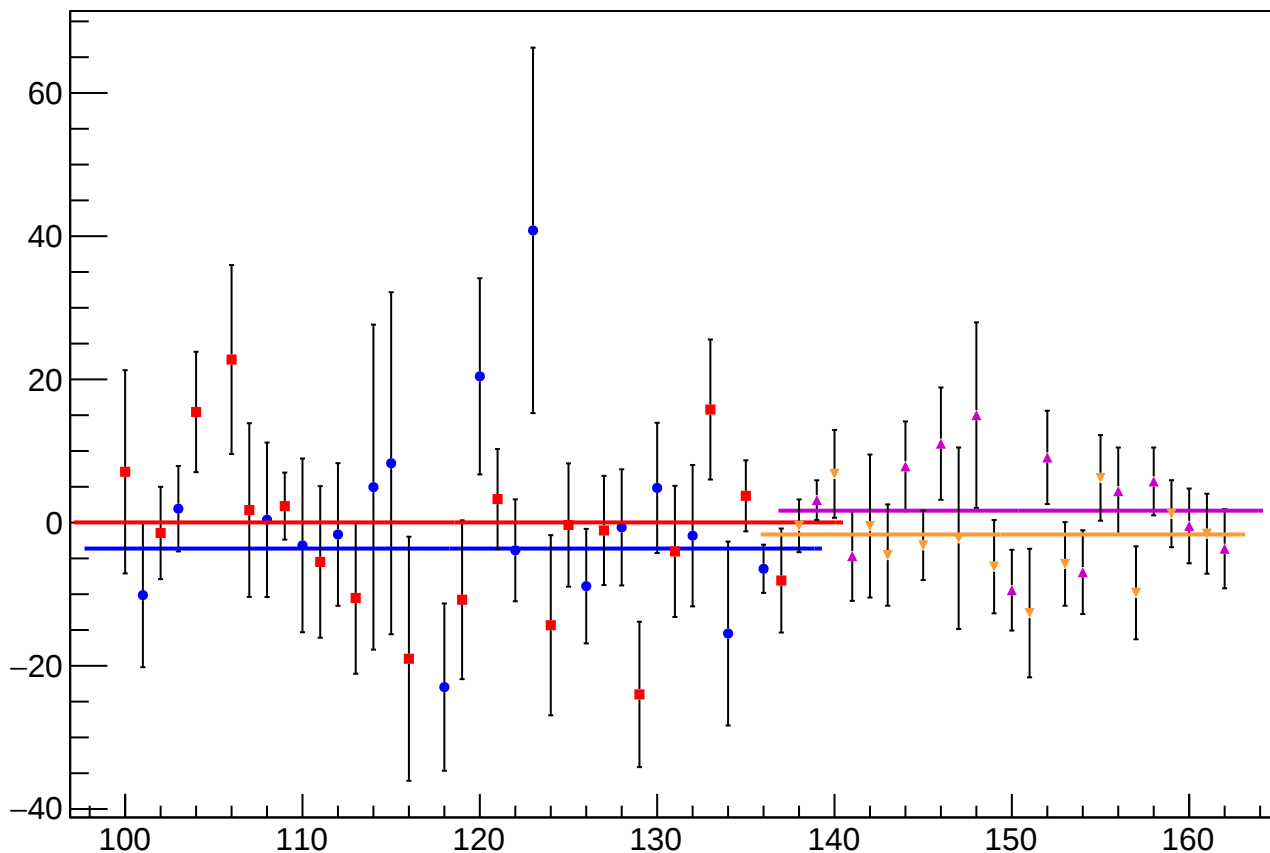
Left In: 30259.928 $\pm$ 6.995

χ^2/NDF : 634886.5/11

All: 29326.740 $\pm$ 3.649

χ^2/NDF : 1662176.4/6

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 ± 2.006 $\chi^2/\text{NDF}: 13.7/16$

Left Out: -1.654 ± 1.636 $\chi^2/\text{NDF}: 8.5/12$

Right Out: 0.027 ± 1.890 $\chi^2/\text{NDF}: 22.1/18$

Left In: 1.667 ± 1.526 $\chi^2/\text{NDF}: 14.1/11$

Left: 0.121 ± 1.116 $\chi^2/\text{NDF}: 24.8/24$

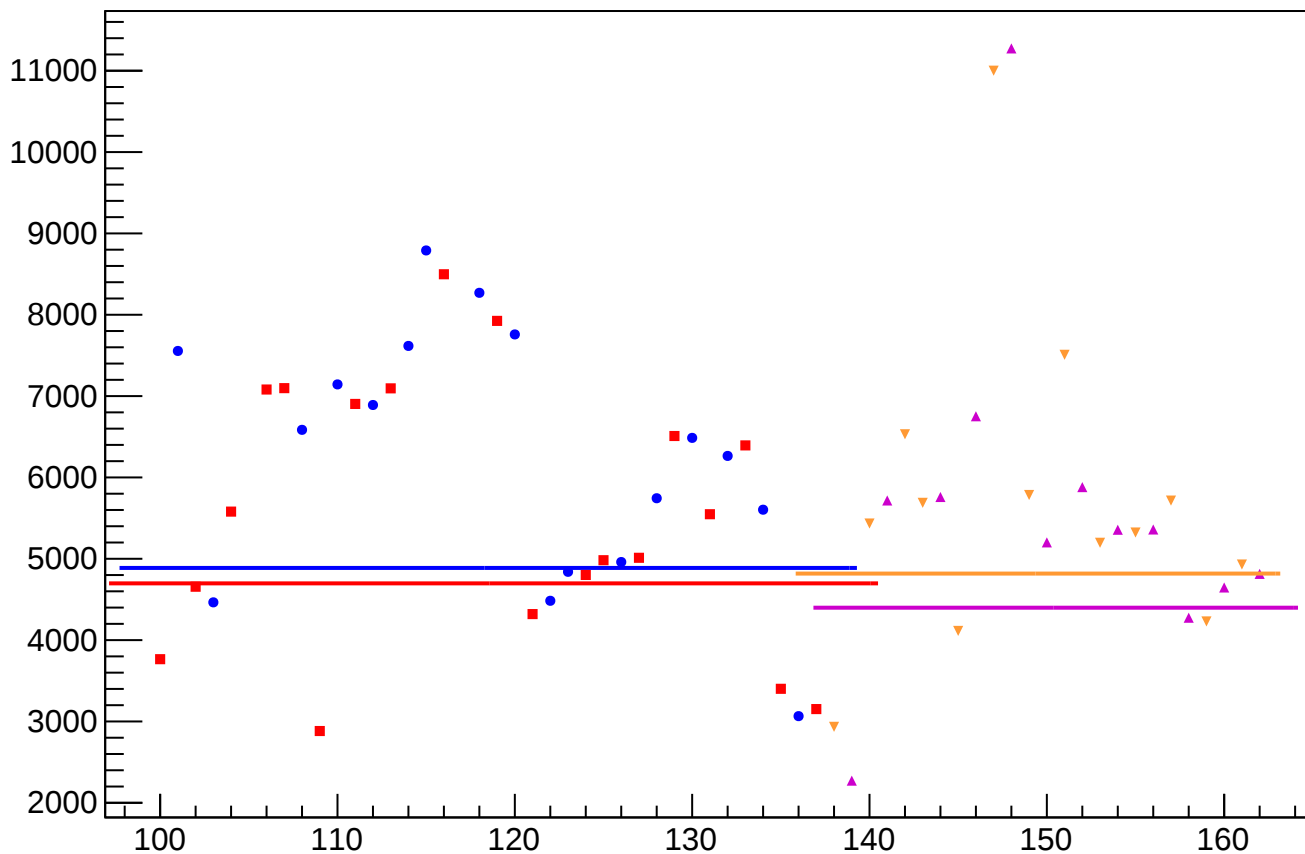
Right: -1.690 ± 1.376 $\chi^2/\text{NDF}: 37.6/35$

In: -0.273 ± 1.214 $\chi^2/\text{NDF}: 32.3/28$

Out: -0.934 ± 1.237 $\chi^2/\text{NDF}: 31.0/31$

All: -0.598 ± 0.867 $\chi^2/\text{NDF}: 63.5/60$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515 $\pm$ 1.418 χ^2 /NDF: 1409296.8/16

Left Out: 4818.078 $\pm$ 1.157 χ^2 /NDF: 1466638.1/12

Right Out: 4697.726 $\pm$ 1.336 χ^2 /NDF: 1313121.0/18

Left In: 4398.517 $\pm$ 1.079 χ^2 /NDF: 2376921.8/11

Left: 4593.734 $\pm$ 0.789 χ^2 /NDF: 3913910.3/24

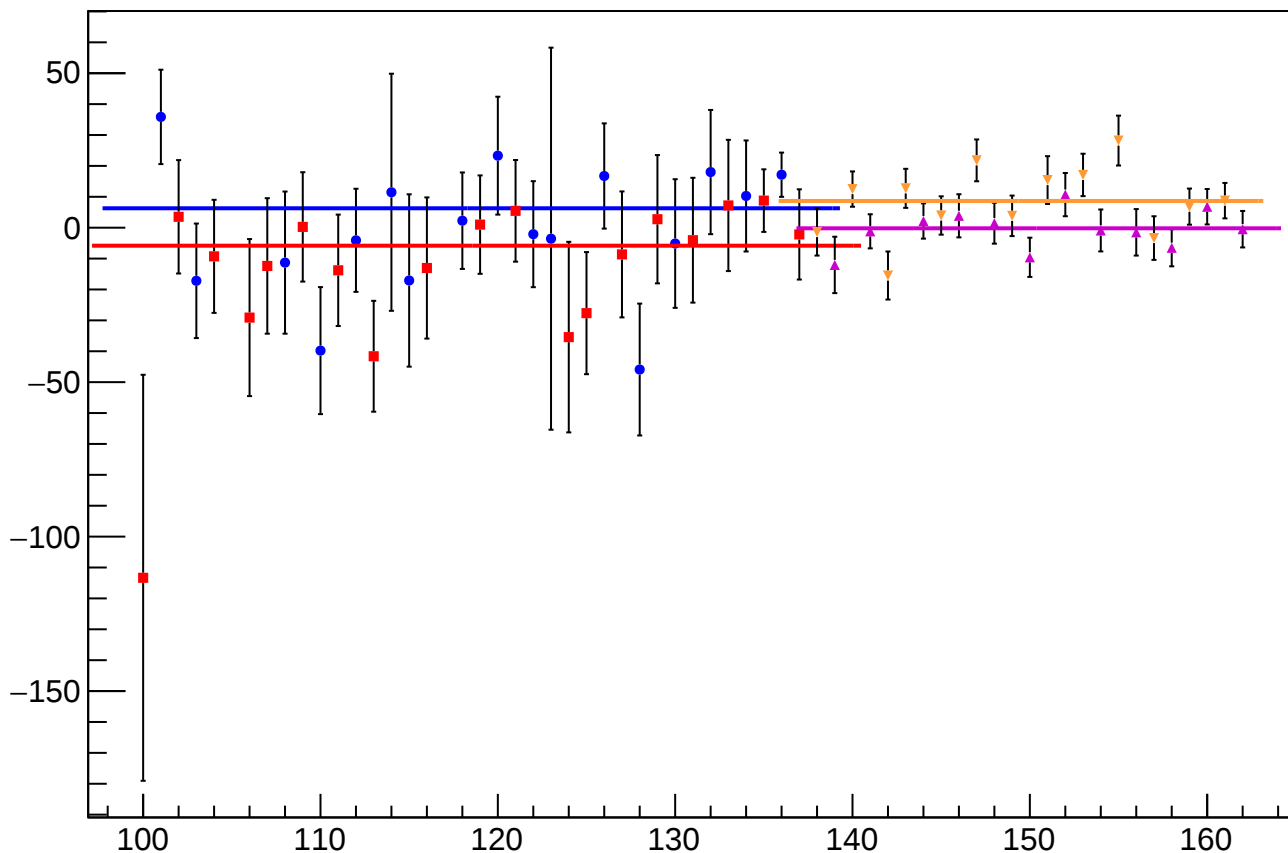
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

In: 4577.757 $\pm$ 0.859 χ^2 /NDF: 3861501.3/28

Out: 4766.532 $\pm$ 0.875 χ^2 /NDF: 2784395.8/31

All: 4670.422 $\pm$ 0.613 χ^2 /NDF: 6669616.1/60

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 χ^2/NDF : 22.5/16

Left Out: 8.654 ± 1.846 χ^2/NDF : 28.3/12

Right Out: -5.828 ± 4.219 χ^2/NDF : 13.8/18

Left In: -0.200 ± 1.856 χ^2/NDF : 9.5/11

Left: 4.252 ± 1.309 χ^2/NDF : 49.2/24

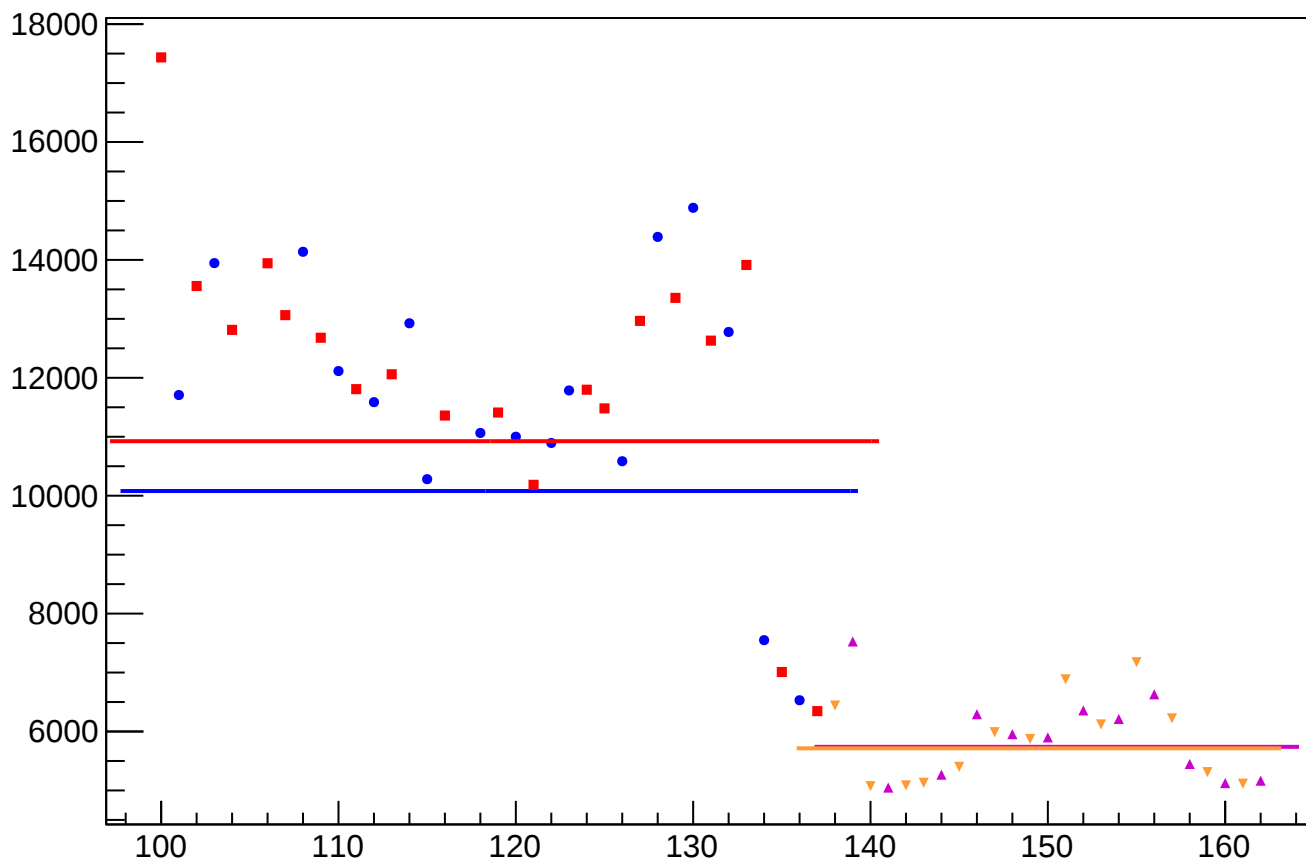
Right: 0.454 ± 2.927 χ^2/NDF : 40.6/35

In: 0.919 ± 1.688 χ^2/NDF : 34.2/28

Out: 6.328 ± 1.691 χ^2/NDF : 52.0/31

All: 3.619 ± 1.195 χ^2/NDF : 91.3/60

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10079.454 $\pm$ 2.874 χ^2 /NDF: 994683.1/16

Left Out: 5714.698 $\pm$ 1.305 χ^2 /NDF:243262.5/12

Right Out: 10924.541 $\pm$ 2.983 χ^2 /NDF: 768447.5/18

Left In: 5739.840 $\pm$ 1.313 χ^2 /NDF:237545.2/11

Left: 5727.197 $\pm$ 0.925 χ^2 /NDF: 480992.2/24

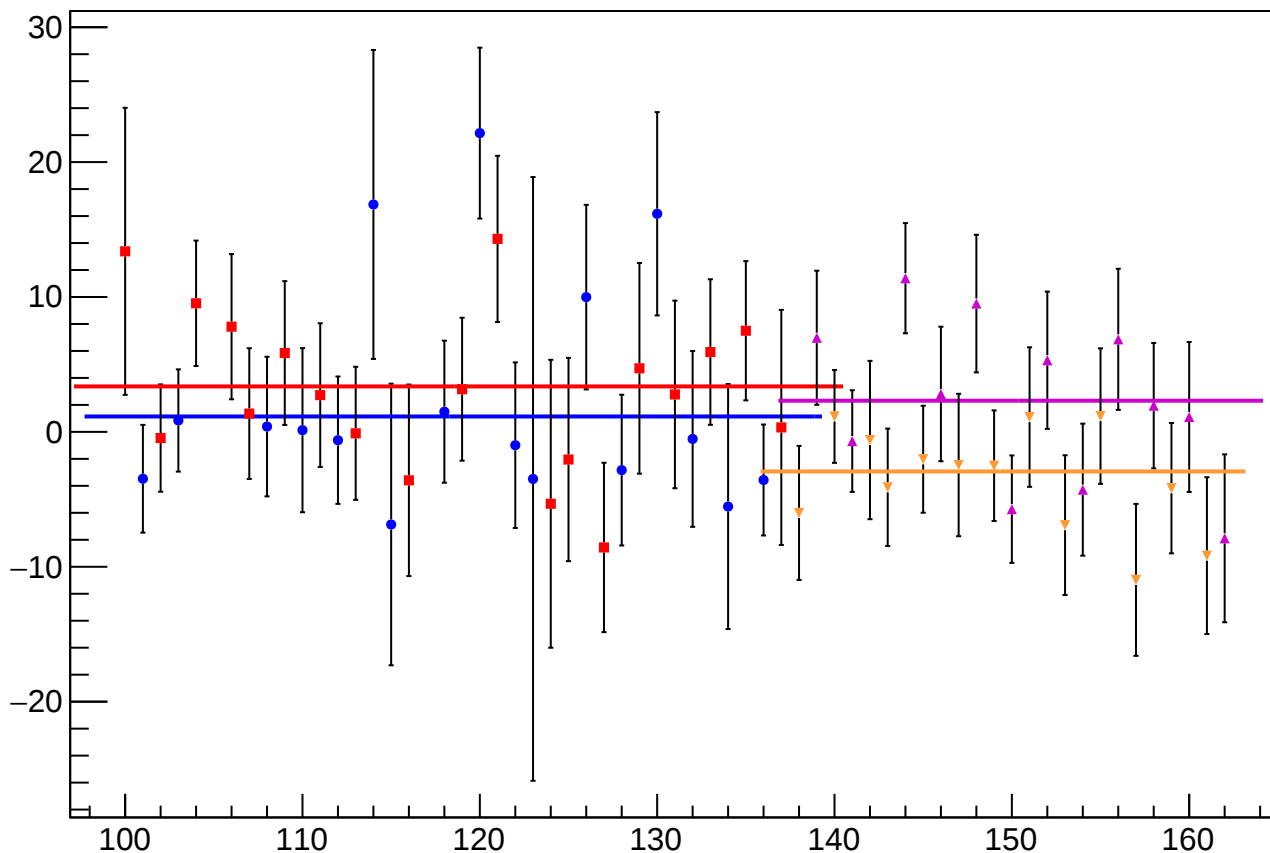
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6488.892 $\pm$ 1.194 χ^2 /NDF:3118953.6/28

Out: 6551.600 $\pm$ 1.196 χ^2 /NDF:3571423.6/31

All: 6520.200 $\pm$ 0.845 χ^2 /NDF: 6691754.4/60

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.142 ± 1.395 $\chi^2/\text{NDF}: 23.2/16$

Left Out: -2.934 ± 1.309 $\chi^2/\text{NDF}: 7.2/12$

Right Out: 3.371 ± 1.333 $\chi^2/\text{NDF}: 15.1/18$

Left In: 2.311 ± 1.368 $\chi^2/\text{NDF}: 18.2/11$

Left: -0.429 ± 0.946 $\chi^2/\text{NDF}: 33.1/24$

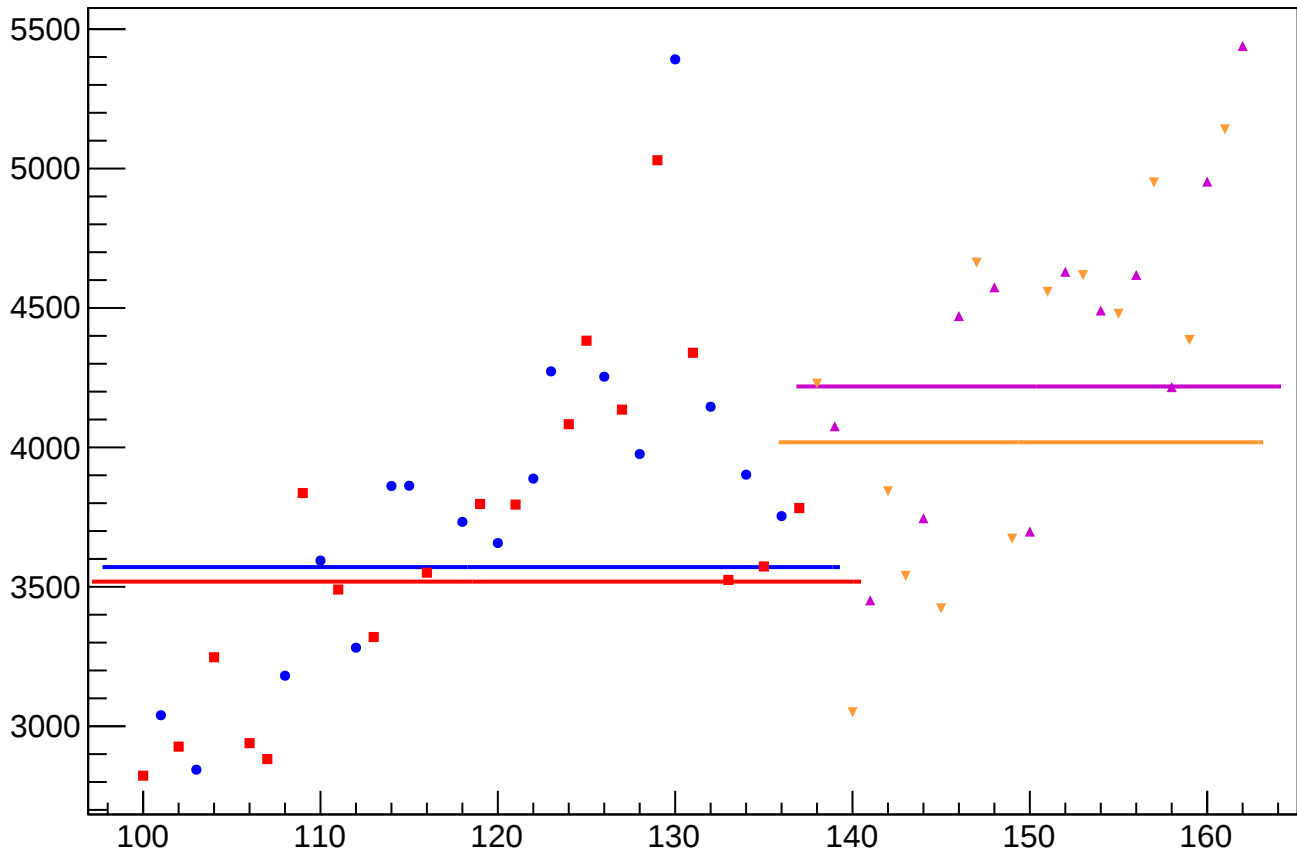
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.738 ± 0.977 $\chi^2/\text{NDF}: 41.8/28$

Out: 0.160 ± 0.934 $\chi^2/\text{NDF}: 33.7/31$

All: 0.913 ± 0.675 $\chi^2/\text{NDF}: 76.8/60$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.707 $\pm$ 0.987 χ^2 /NDF: 309568.0/16

Left Out: 4018.472 $\pm$ 0.925 χ^2 /NDF:483314.2/12

Right Out: 3518.621 $\pm$ 0.943 χ^2 /NDF: 293227.8/18

Left In: 4218.536 $\pm$ 0.968 χ^2 /NDF:303208.9/11

Left: 4114.026 $\pm$ 0.669 χ^2 /NDF: 808852.2/24

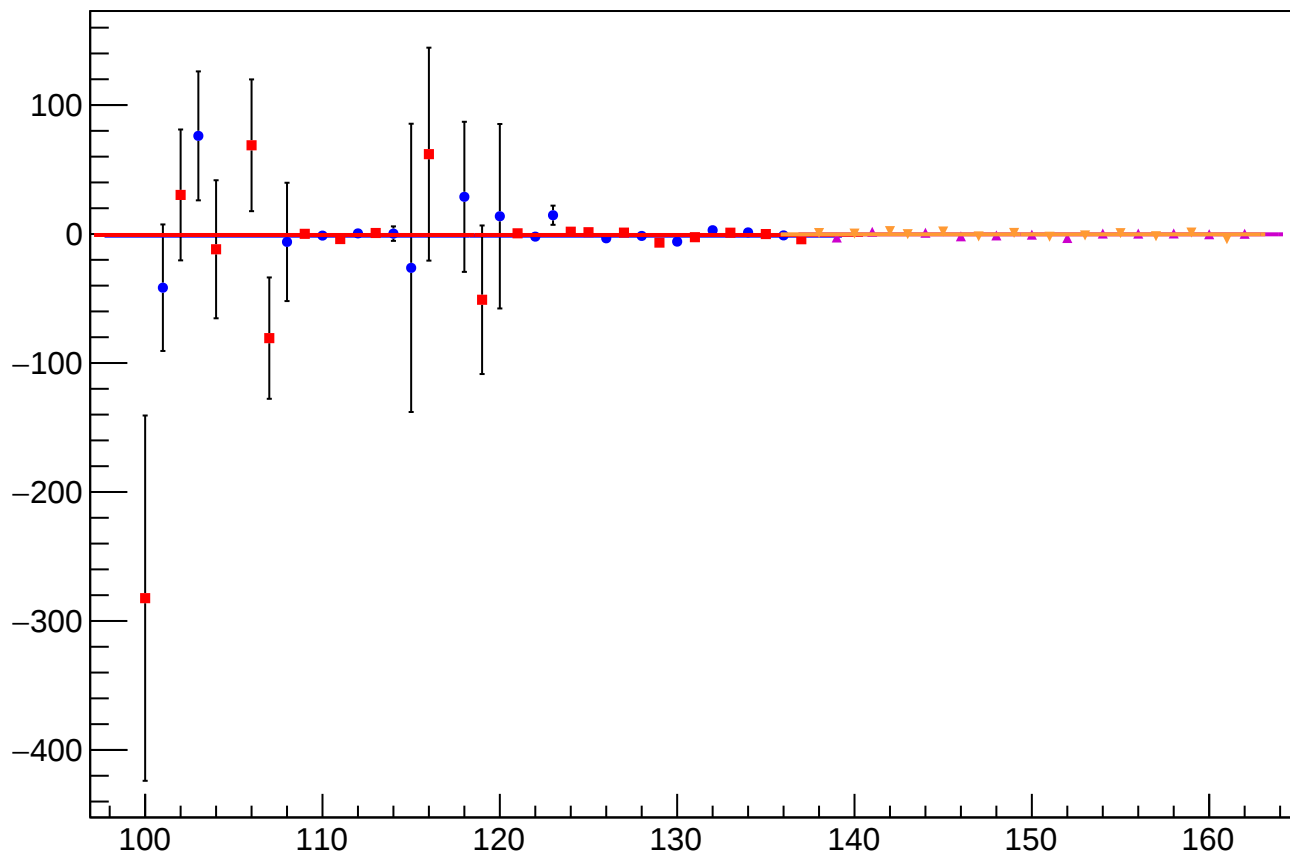
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 3900.881 $\pm$ 0.691 χ^2 /NDF:832541.6/28

Out: 3773.201 $\pm$ 0.660 χ^2 /NDF:919740.1/31

All: 3834.161 $\pm$ 0.477 χ^2 /NDF: 1770131.5/60

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.261 ± 0.748 χ^2/NDF : 16.3/16

Left Out: -0.231 ± 0.339 χ^2/NDF : 25.3/12

Right Out: -0.733 ± 0.710 χ^2/NDF : 22.1/18

Left In: -0.224 ± 0.337 χ^2/NDF : 16.2/11

Left: -0.228 ± 0.239 χ^2/NDF : 41.5/24

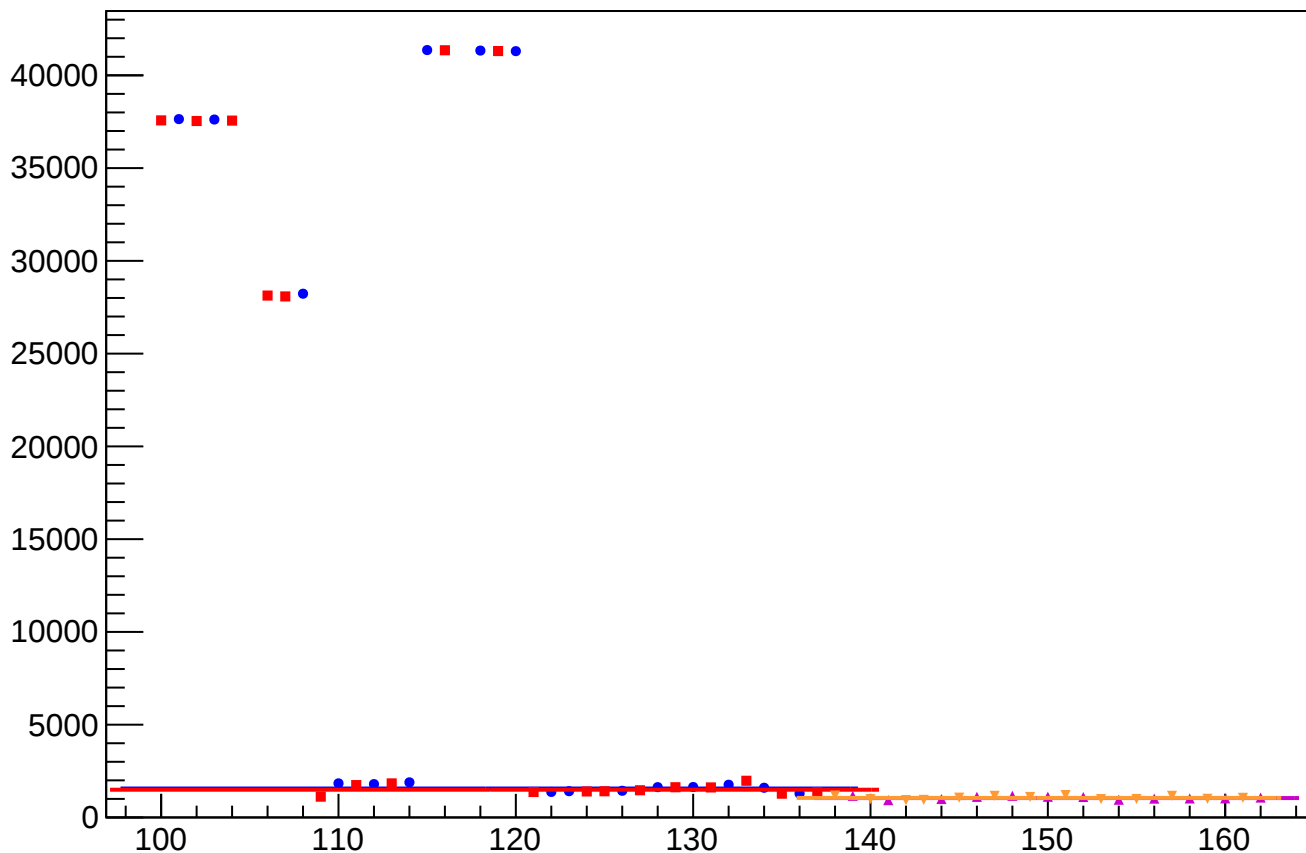
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.399 ± 0.307 χ^2/NDF : 34.1/28

Out: -0.324 ± 0.306 χ^2/NDF : 47.8/31

All: -0.362 ± 0.217 χ^2/NDF : 81.9/60

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1558.988 $\pm$ 0.529 χ^2 /NDF: 4753669.7/16

Left Out: 1053.253 $\pm$ 0.239 χ^2 /NDF: 128565.1/12

Right Out: 1494.619 $\pm$ 0.502 χ^2 /NDF: 4892920.0/18

Left In: 1045.225 $\pm$ 0.238 χ^2 /NDF: 96808.5/11

Left: 1049.219 $\pm$ 0.169 χ^2 /NDF: 225938.5/24

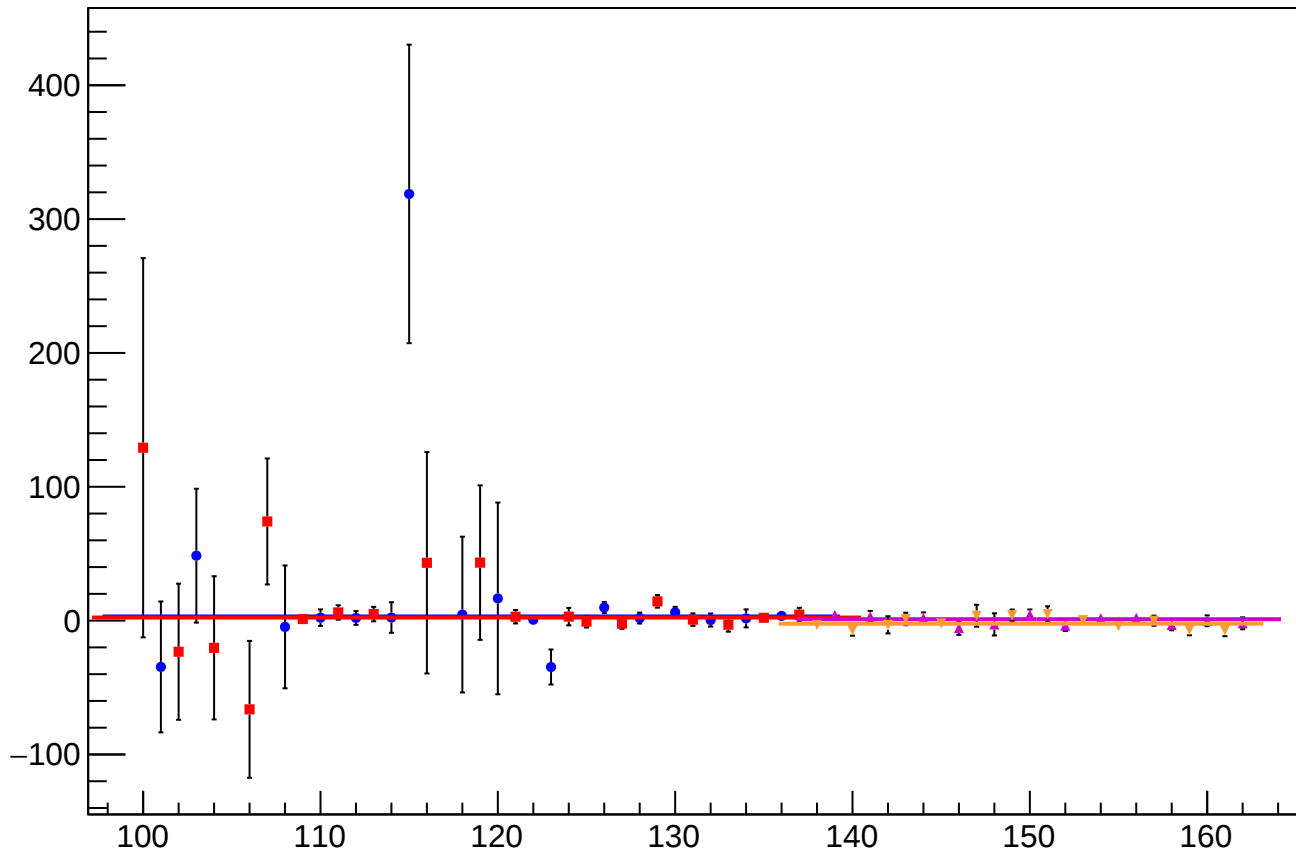
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1131.919 $\pm$ 0.217 χ^2 /NDF: 5635085.0/28

Out: 1134.997 $\pm$ 0.216 χ^2 /NDF: 5650702.1/31

All: 1133.465 $\pm$ 0.153 χ^2 /NDF: 11285887.9/6

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 ± 1.323 $\chi^2/\text{NDF}: 21.9/16$

Left Out: -2.291 ± 1.093 $\chi^2/\text{NDF}: 10.1/12$

Right Out: 2.306 ± 1.235 $\chi^2/\text{NDF}: 16.9/18$

Left In: 1.062 ± 1.116 $\chi^2/\text{NDF}: 8.0/11$

Left: -0.649 ± 0.781 $\chi^2/\text{NDF}: 22.7/24$

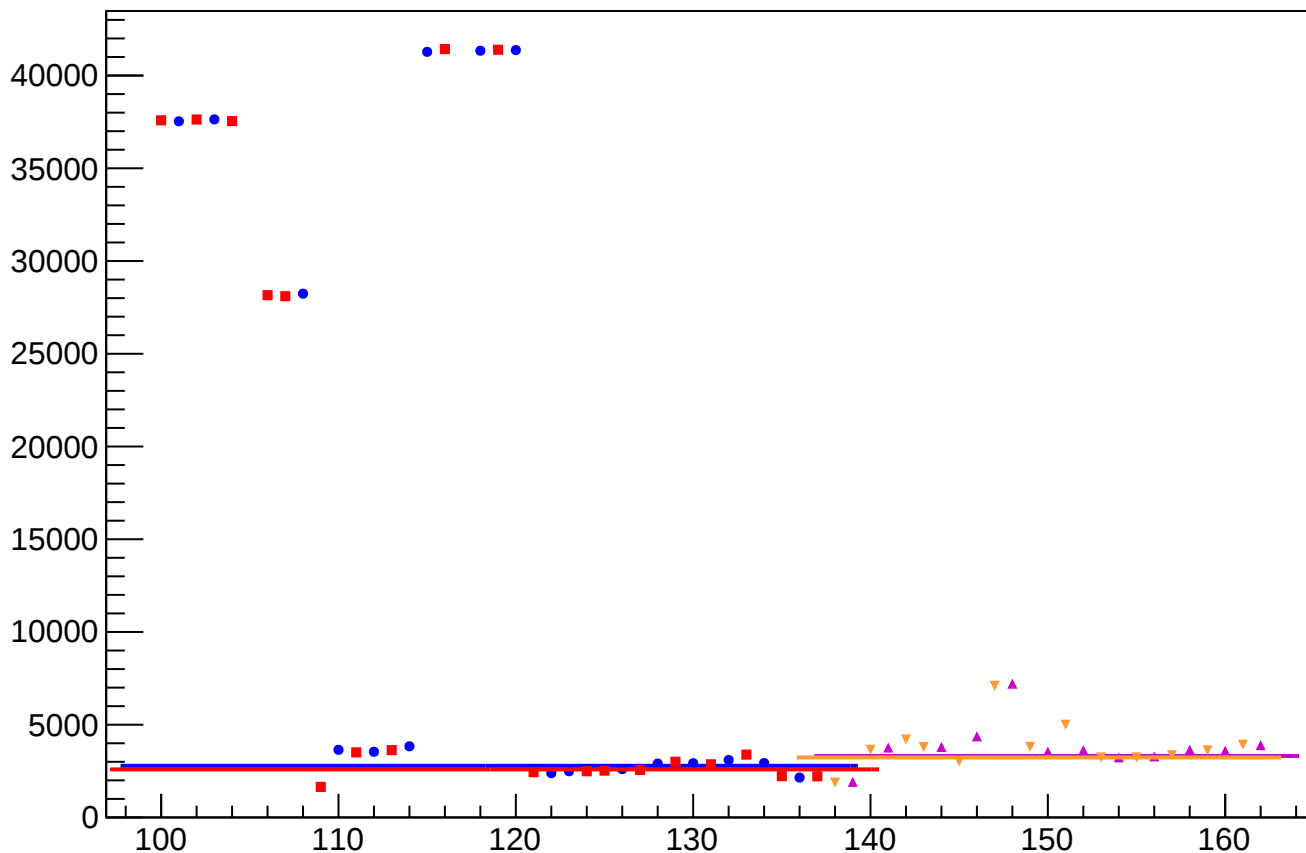
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.898 ± 0.853 $\chi^2/\text{NDF}: 31.2/28$

Out: -0.271 ± 0.818 $\chi^2/\text{NDF}: 34.8/31$

All: 0.769 ± 0.591 $\chi^2/\text{NDF}: 69.3/60$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2783.989+/-0.936 χ^2/NDF : 4577424.2/16

Left Out: 3235.214+/-0.773 χ^2/NDF : 1549455.7/12

Right Out: 2591.161+/-0.873 χ^2/NDF : 4846722.1/18

Left In: 3314.527+/-0.789 χ^2/NDF : 1355600.5/11

Left: 3274.067+/-0.552 χ^2/NDF : 2910212.7/24

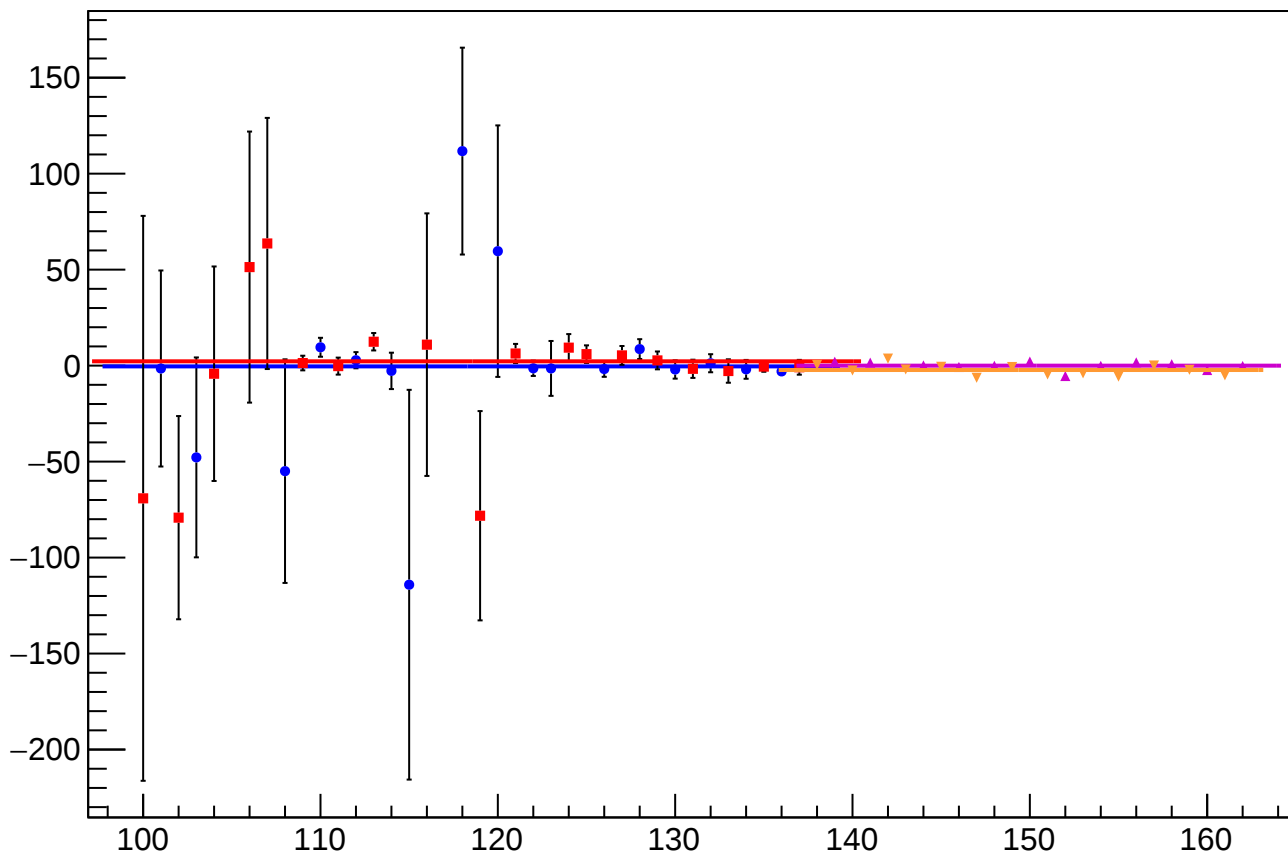
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3094.094+/-0.603 χ^2/NDF : 6120952.5/28

Out: 2952.133+/-0.579 χ^2/NDF : 6701264.7/31

All: 3020.187+/-0.418 χ^2/NDF : 12851061.3/6

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.403 ± 1.218 χ^2/NDF : 18.3/16

Left Out: -2.292 ± 0.529 χ^2/NDF : 23.2/12

Right Out: 2.245 ± 1.246 χ^2/NDF : 17.4/18

Left In: -0.022 ± 0.533 χ^2/NDF : 13.4/11

Left: -1.166 ± 0.375 χ^2/NDF : 45.7/24

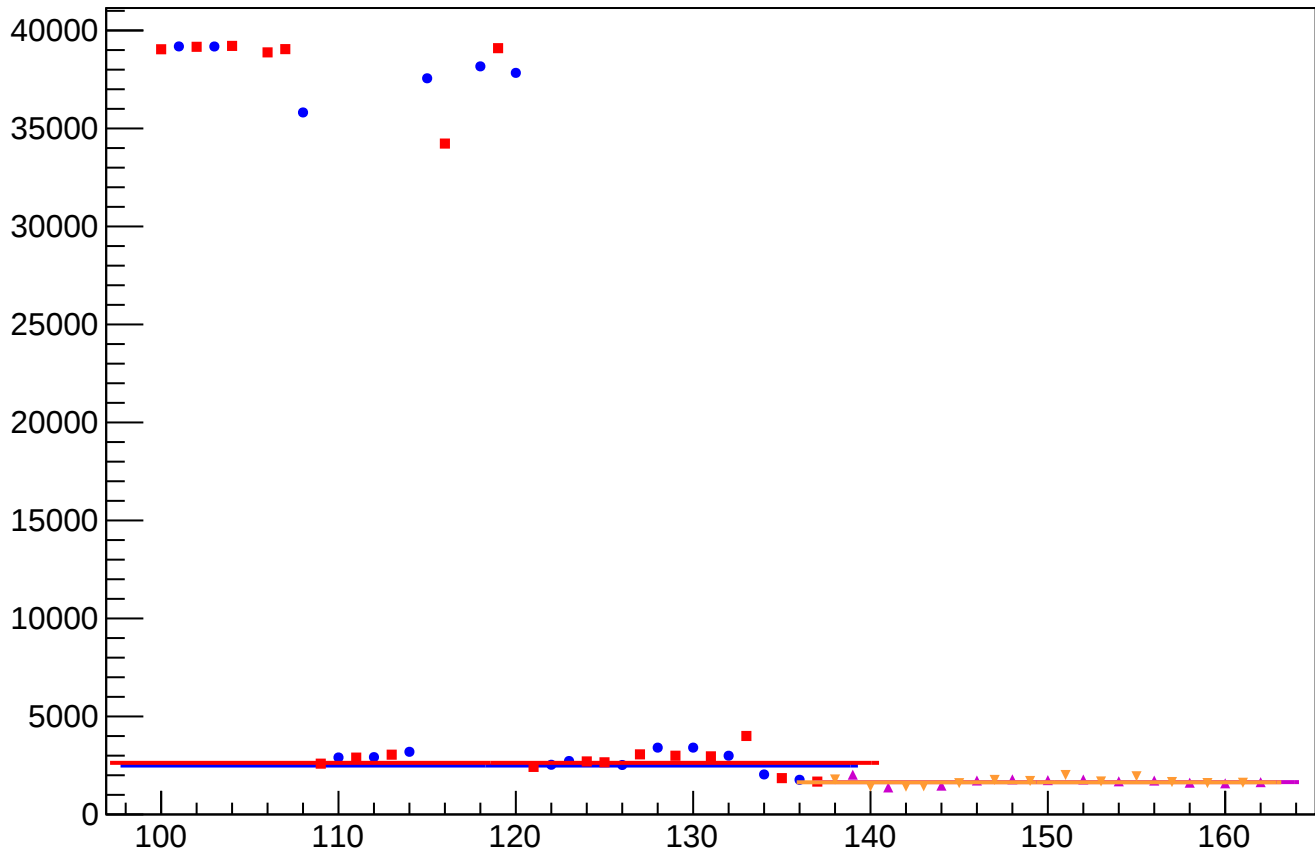
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.083 ± 0.488 χ^2/NDF : 31.7/28

Out: -1.600 ± 0.487 χ^2/NDF : 51.8/31

All: -0.844 ± 0.345 χ^2/NDF : 88.4/60

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603 $\pm$ 0.861 χ^2 /NDF: 4882334.6/16

Left Out: 1640.593 $\pm$ 0.374 χ^2 /NDF: 203464.9/12

Right Out: 2633.244 $\pm$ 0.881 χ^2 /NDF: 4860512.6/18

Left In: 1650.244 $\pm$ 0.377 χ^2 /NDF: 172871.3/11

Left: 1645.381 $\pm$ 0.265 χ^2 /NDF: 376666.7/24

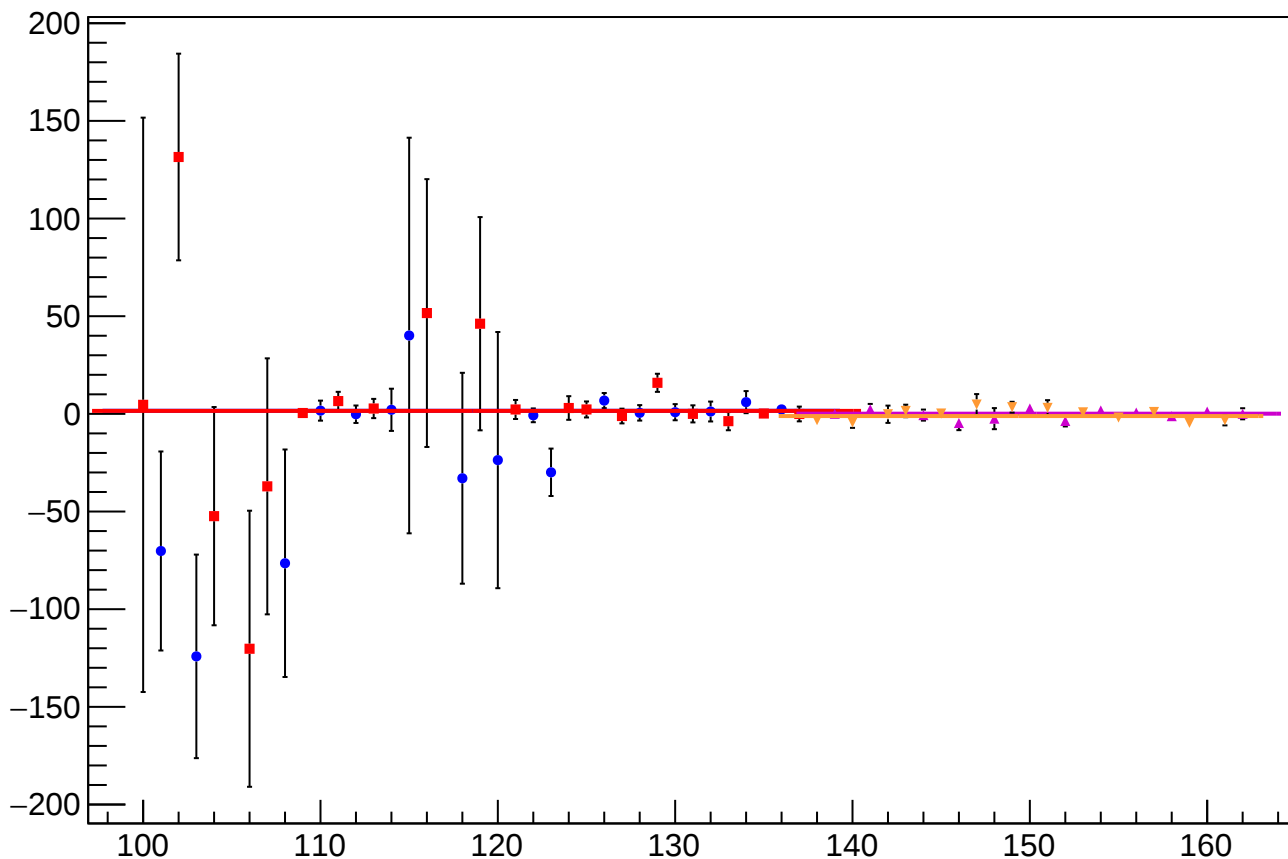
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1786.143 $\pm$ 0.345 χ^2 /NDF: 5863977.3/28

Out: 1792.126 $\pm$ 0.344 χ^2 /NDF: 6139704.6/31

All: 1789.144 $\pm$ 0.244 χ^2 /NDF: 12003832.5/66

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.576 ± 1.143 $\chi^2/\text{NDF}: 20.3/16$

Left Out: -1.123 ± 0.716 $\chi^2/\text{NDF}: 13.7/12$

Right Out: 1.524 ± 1.062 $\chi^2/\text{NDF}: 25.0/18$

Left In: 0.093 ± 0.701 $\chi^2/\text{NDF}: 6.5/11$

Left: -0.502 ± 0.501 $\chi^2/\text{NDF}: 21.7/24$

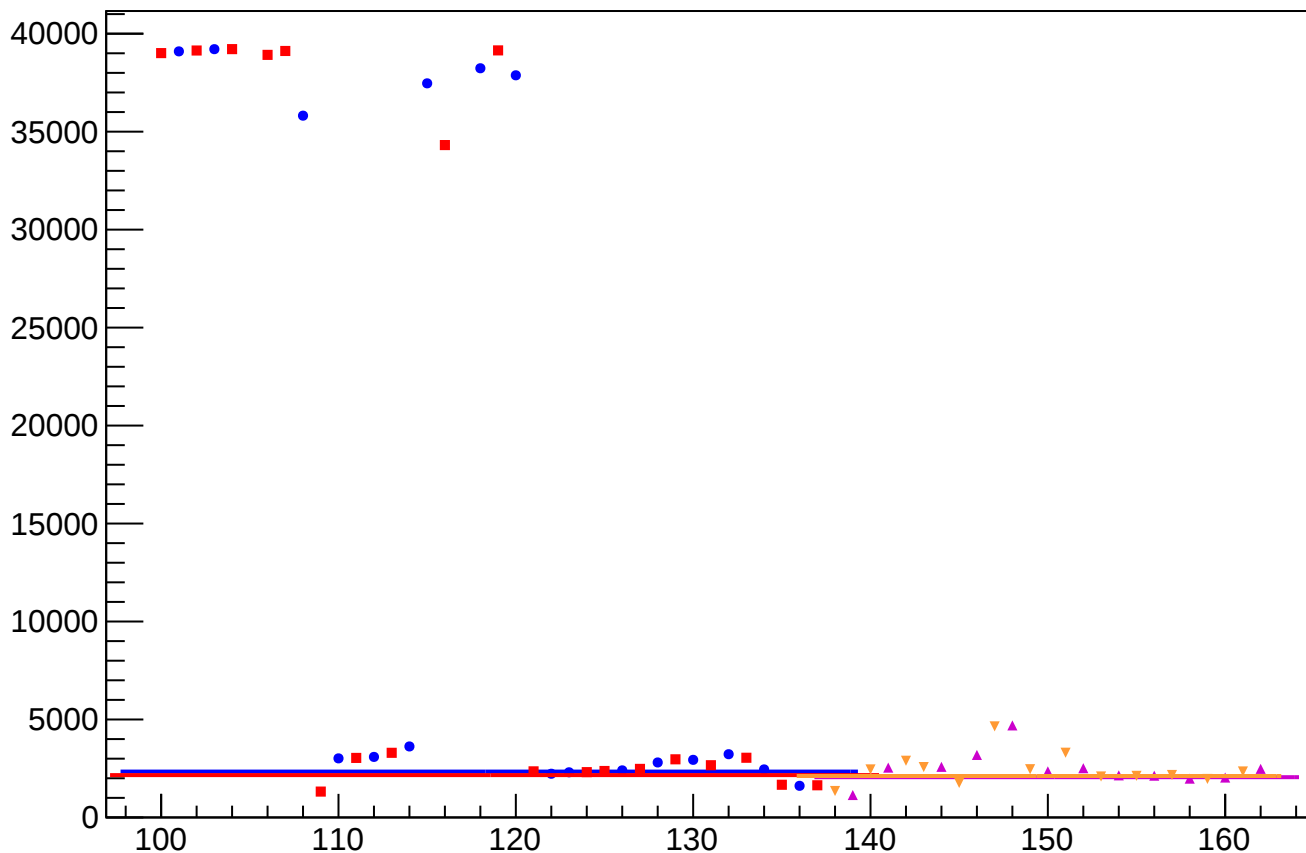
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.498 ± 0.597 $\chi^2/\text{NDF}: 28.1/28$

Out: -0.296 ± 0.594 $\chi^2/\text{NDF}: 43.0/31$

All: 0.099 ± 0.421 $\chi^2/\text{NDF}: 72.0/60$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.130+/-0.808 χ^2/NDF : 5006864.7/16

Left Out: 2115.653+/-0.506 χ^2/NDF : 1280607.3/12

Right Out: 2161.162+/-0.751 χ^2/NDF : 5299050.1/18

Left In: 2055.168+/-0.495 χ^2/NDF : 1794578.7/11

Left: 2084.754+/-0.354 χ^2/NDF : 3082475.6/24

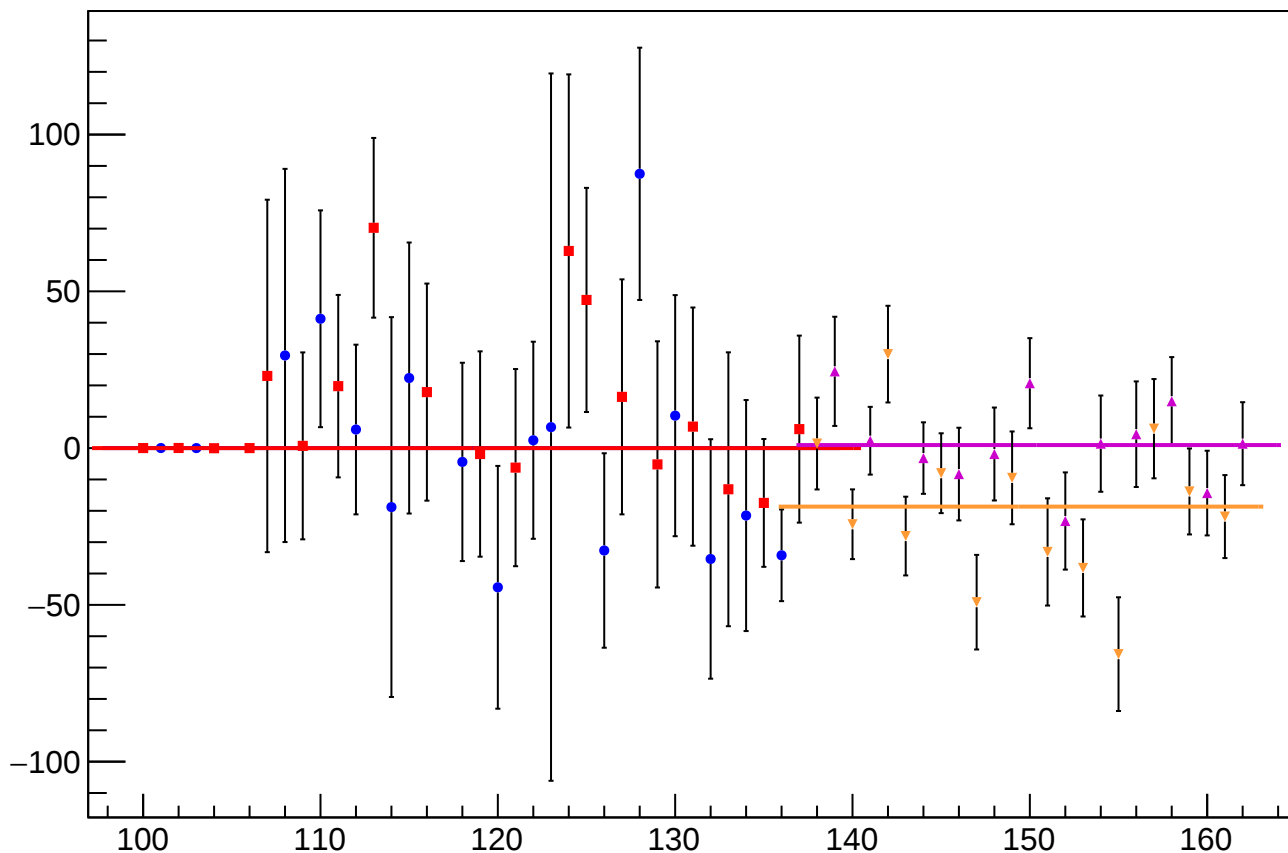
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2133.285+/-0.422 χ^2/NDF : 6892438.3/28

Out: 2129.874+/-0.420 χ^2/NDF : 6582181.6/31

All: 2131.569+/-0.298 χ^2/NDF : 13474652.7/66

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 16.2/16$

Left Out: -18.662 ± 3.951 $\chi^2/\text{NDF}: 29.5/12$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.9/18$

Left In: 0.971 ± 4.026 $\chi^2/\text{NDF}: 9.0/11$

Left: -9.031 ± 2.820 $\chi^2/\text{NDF}: 50.7/24$

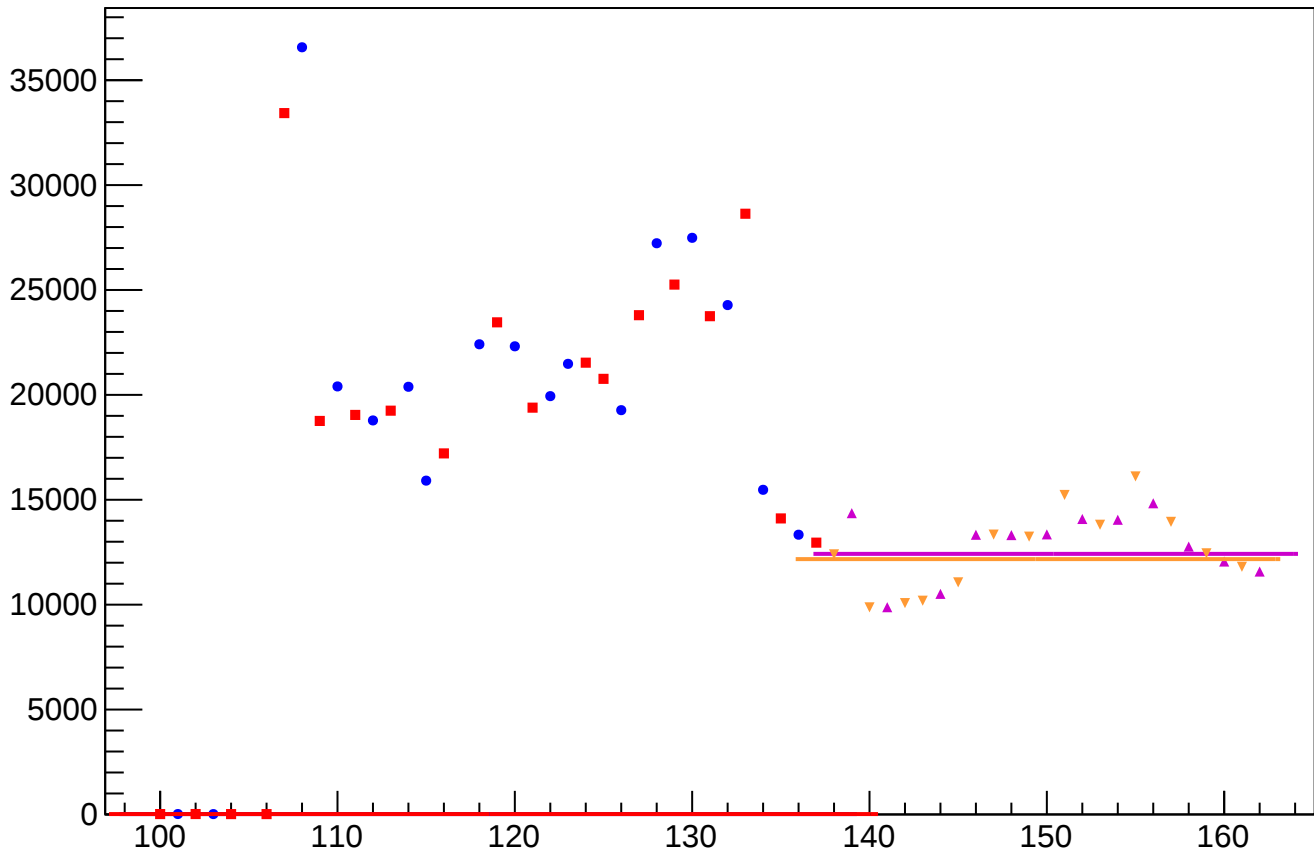
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 25.2/28$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 67.7/31$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 93.4/60$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.642+/-0.012 χ^2/NDF : 10984160.5/16

Left Out: 12171.395+/-2.794 χ^2/NDF : 418784.8/12

Right Out: 18.311+/-0.011 χ^2/NDF : 11110665.6/18

Left In: 12421.345+/-2.847 χ^2/NDF : 311894.2/11

Left: 12294.008+/-1.994 χ^2/NDF : 734606.2/24

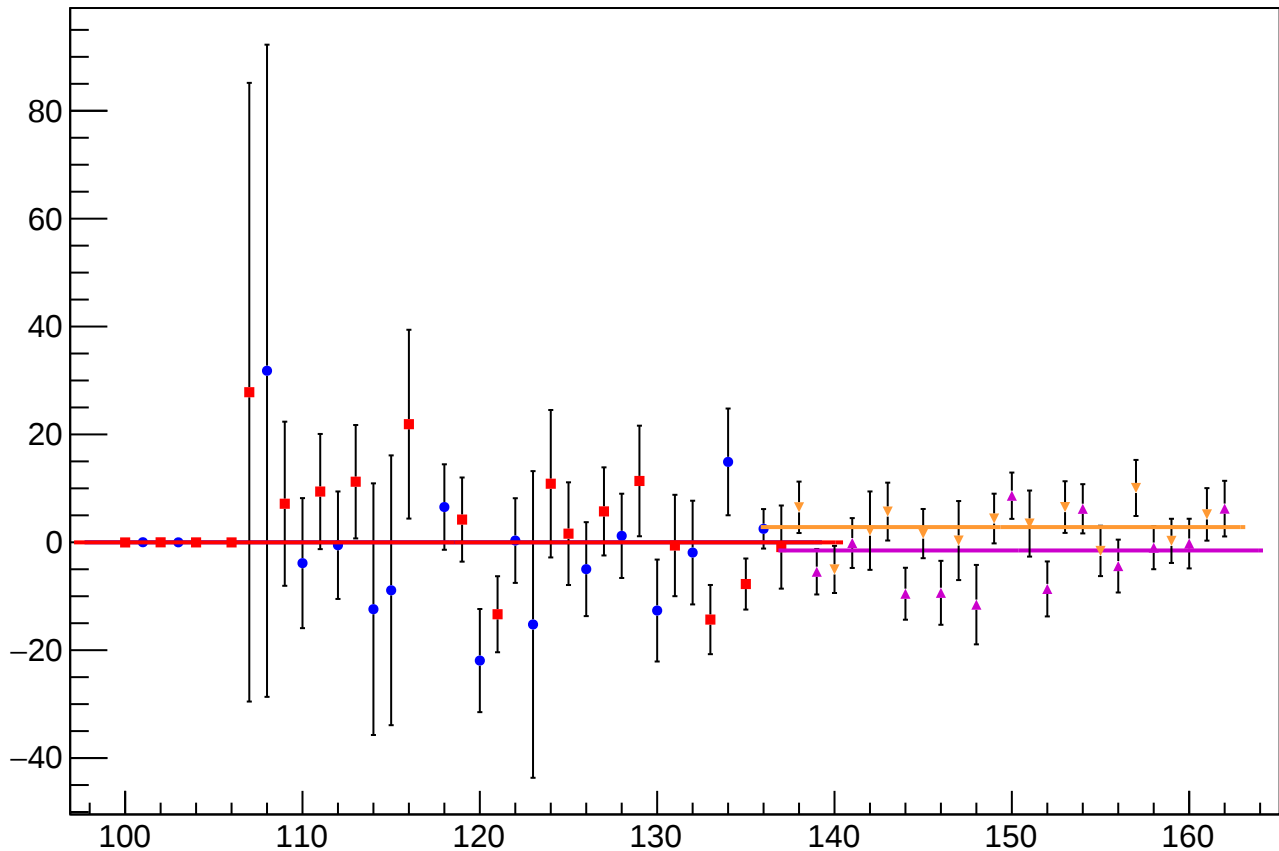
Right: 18.464+/-0.008 χ^2/NDF : 22095216.5/35

In: 18.872+/-0.012 χ^2/NDF : 30276206.2/28

Out: 18.513+/-0.011 χ^2/NDF : 30455294.6/31

All: 18.679+/-0.008 χ^2/NDF : 60731962.2/60

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 13.0/16

Left Out: 2.821 $\pm$ 1.388 χ^2 /NDF: 8.5/12

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 18.6/18

Left In: -1.514 $\pm$ 1.383 χ^2 /NDF: 20.5/11

Left: 0.646 $\pm$ 0.980 χ^2 /NDF: 33.9/24

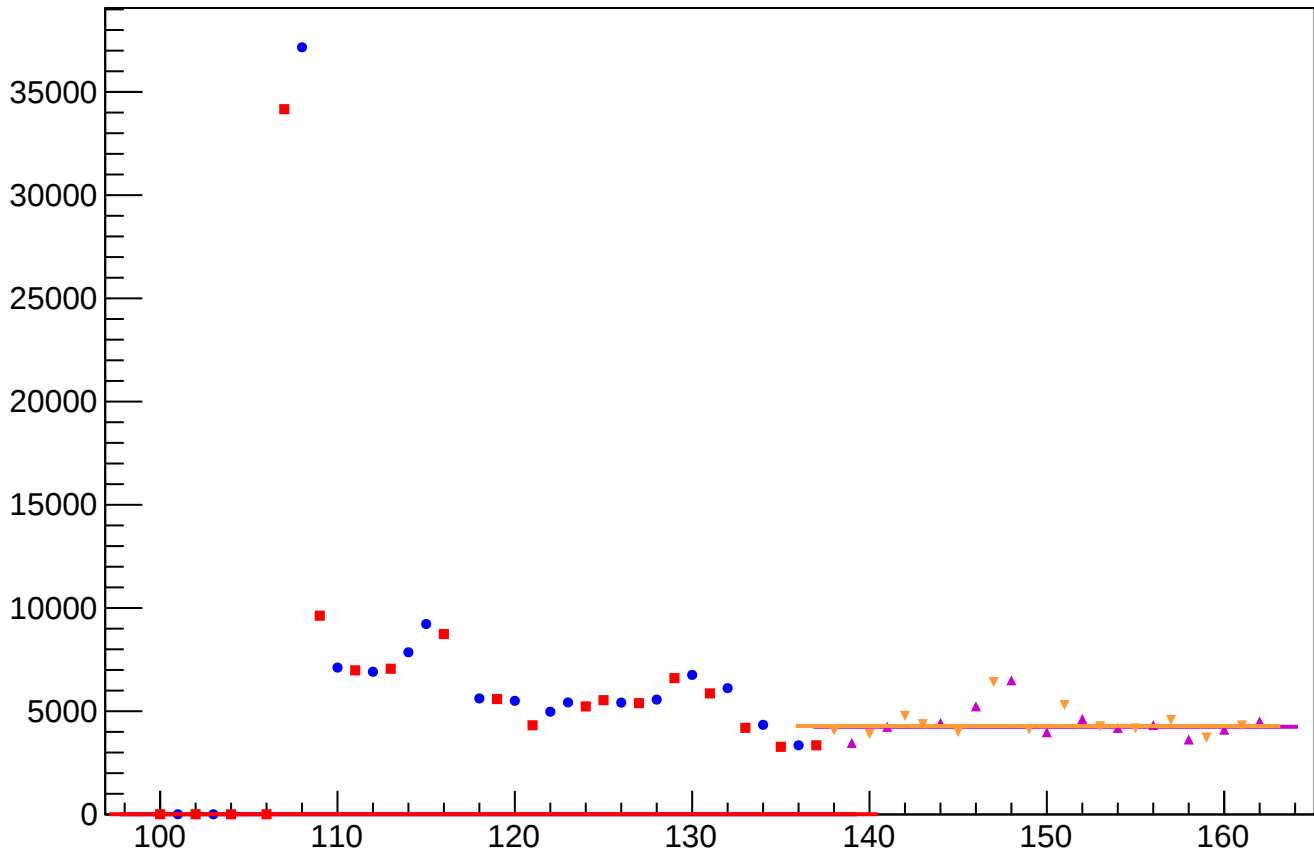
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 33.0/35

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 34.7/28

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 31.2/31

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 67.3/60

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939+/-0.007 χ^2/NDF : 11114526.8/16

Left Out: 4283.749+/-0.982 χ^2/NDF :309779.8/12

Right Out: 9.854+/-0.006 χ^2/NDF : 11159992.3/18

Left In: 4248.131+/-0.978 χ^2/NDF :388135.7/11

Left: 4265.876+/-0.693 χ^2/NDF : 698576.1/24

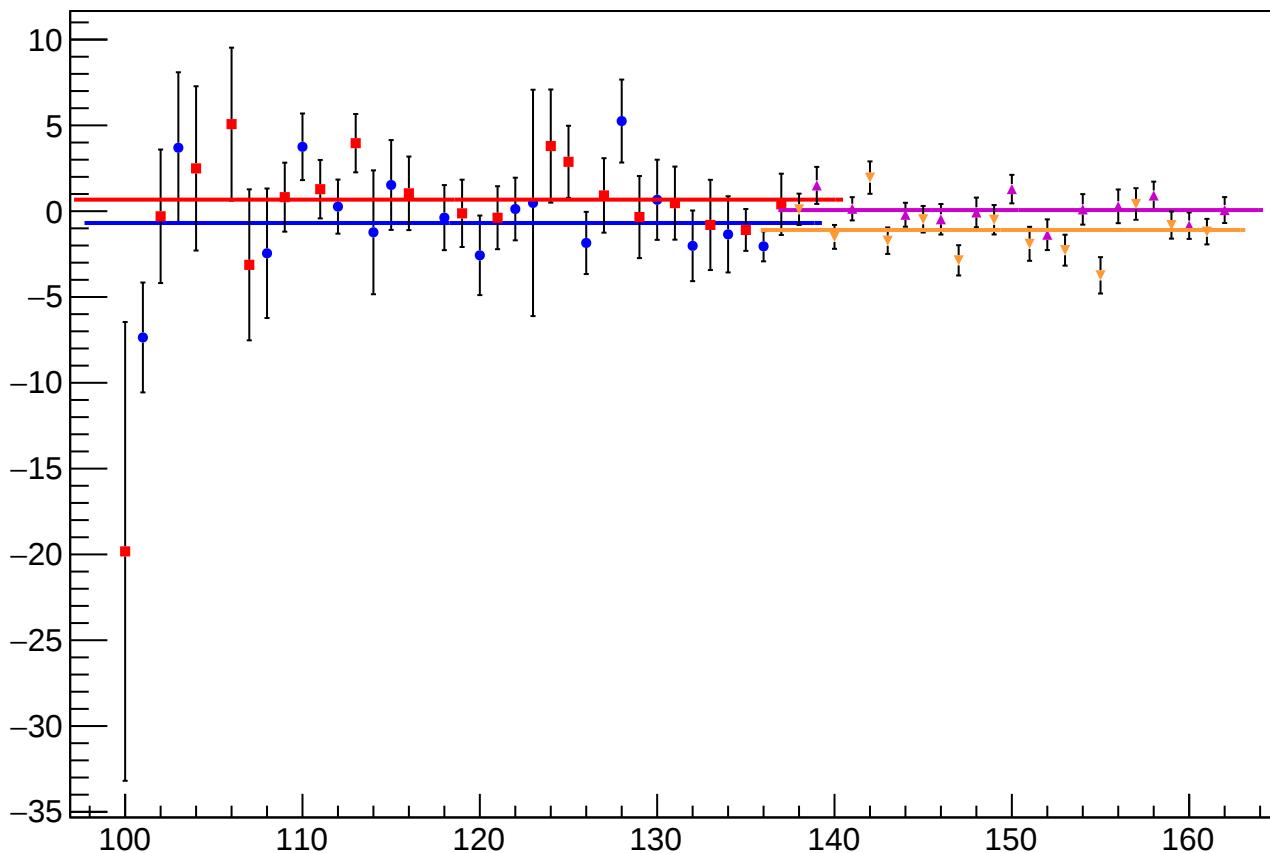
Right: 9.894+/-0.004 χ^2/NDF : 22274609.0/35

In: 10.127+/-0.007 χ^2/NDF :30275398.0/28

Out: 10.020+/-0.006 χ^2/NDF :30424591.5/31

All: 10.070+/-0.004 χ^2/NDF : 60700131.1/60

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 χ^2/NDF : 22.5/16

Left Out: -1.095 ± 0.235 χ^2/NDF : 29.8/12

Right Out: 0.672 ± 0.501 χ^2/NDF : 13.3/18

Left In: 0.065 ± 0.238 χ^2/NDF : 9.6/11

Left: -0.522 ± 0.167 χ^2/NDF : 51.4/24

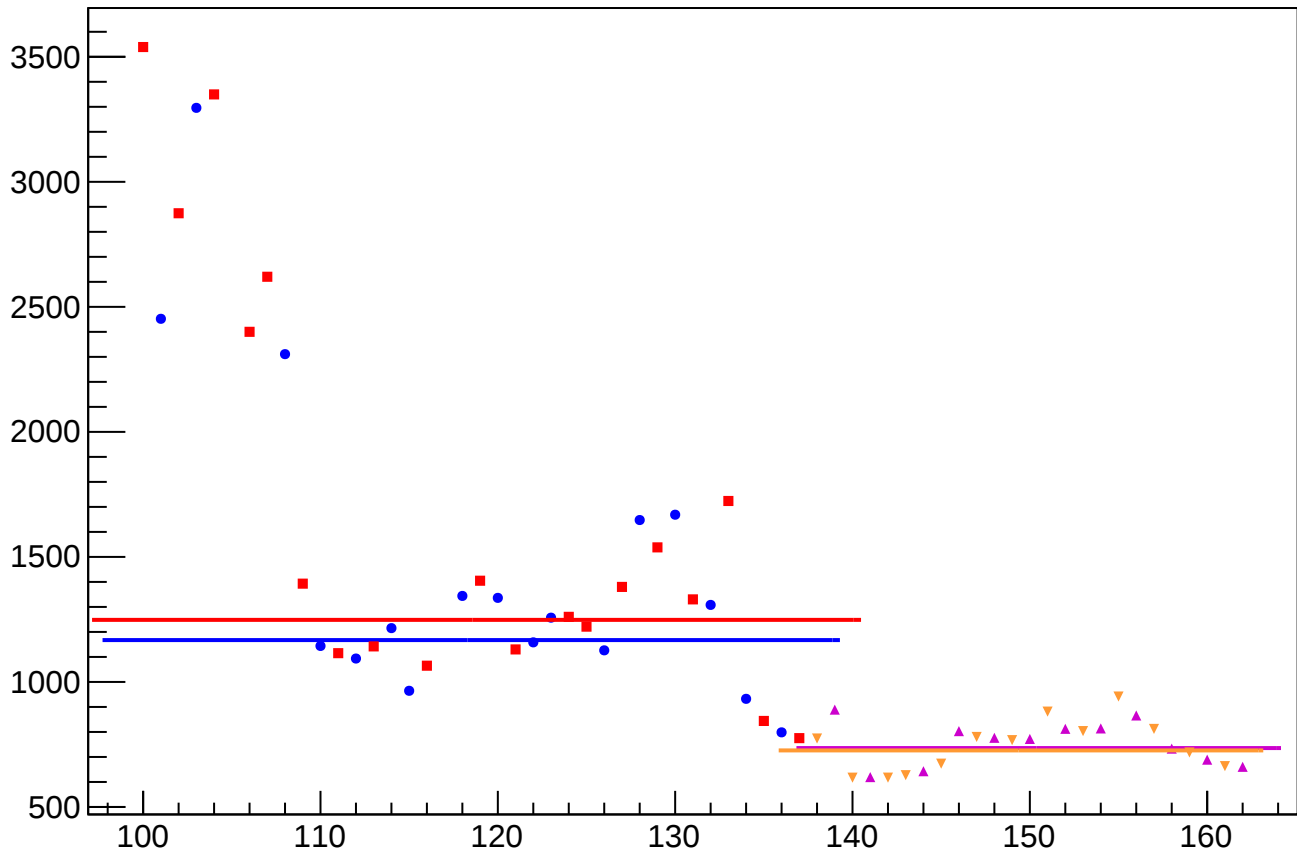
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.083 ± 0.213 χ^2/NDF : 34.1/28

Out: -0.776 ± 0.213 χ^2/NDF : 53.3/31

All: -0.430 ± 0.151 χ^2/NDF : 92.7/60

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 $\pm$ 0.341 χ^2/NDF : 1578328.1/16

Left Out: 726.192 $\pm$ 0.166 χ^2/NDF : 313980.8/12

Right Out: 1248.241 $\pm$ 0.354 χ^2/NDF : 1654028.9/18

Left In: 735.560 $\pm$ 0.168 χ^2/NDF : 247291.3/11

Left: 730.817 $\pm$ 0.118 χ^2/NDF : 562842.1/24

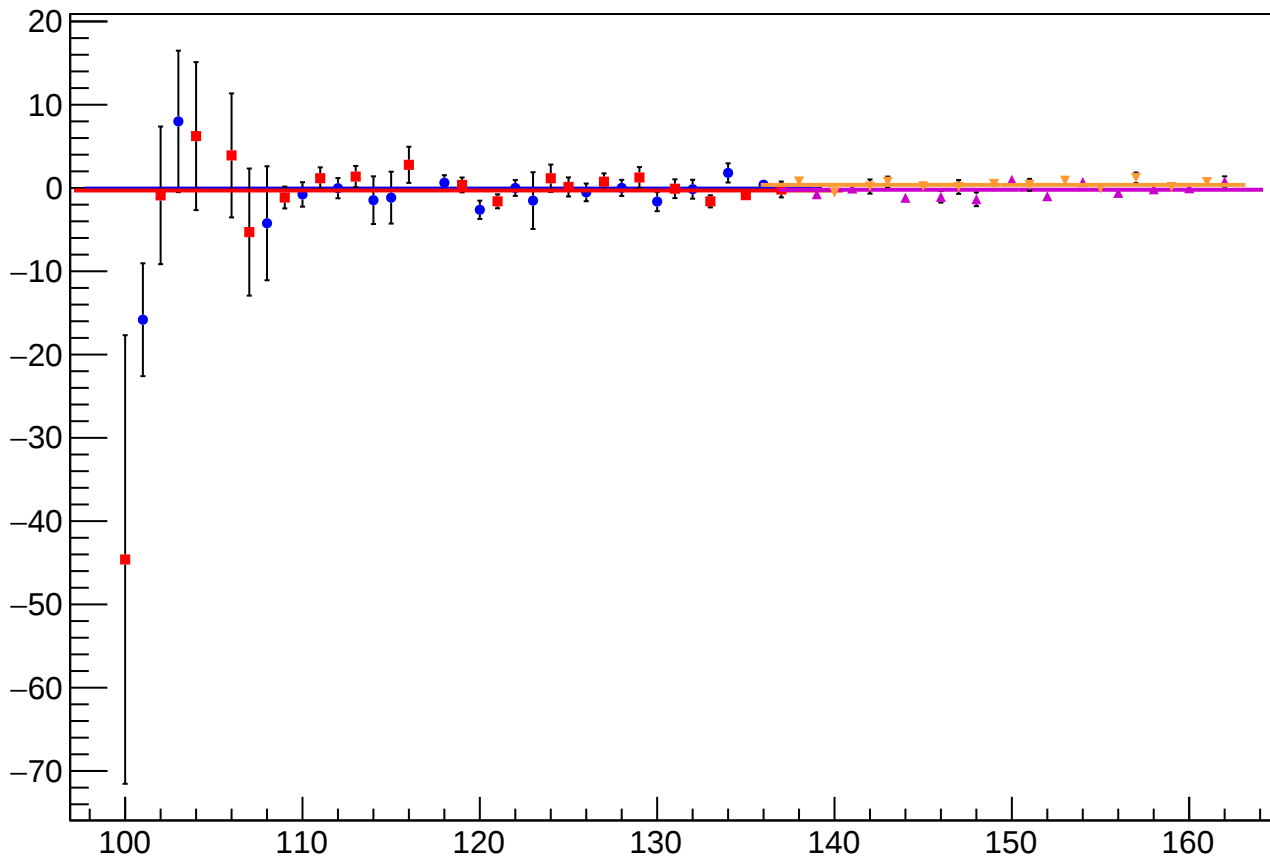
Right: 1206.306 $\pm$ 0.246 χ^2/NDF : 3259405.5/35

In: 820.086 $\pm$ 0.151 χ^2/NDF : 3115303.1/28

Out: 820.405 $\pm$ 0.150 χ^2/NDF : 3749986.0/31

All: 820.246 $\pm$ 0.107 χ^2/NDF : 6865291.3/60

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.269 χ^2/NDF : 19.2/16

Left Out: 0.373 ± 0.166 χ^2/NDF : 8.1/12

Right Out: -0.294 ± 0.264 χ^2/NDF : 20.2/18

Left In: -0.210 ± 0.166 χ^2/NDF : 20.4/11

Left: 0.083 ± 0.118 χ^2/NDF : 34.6/24

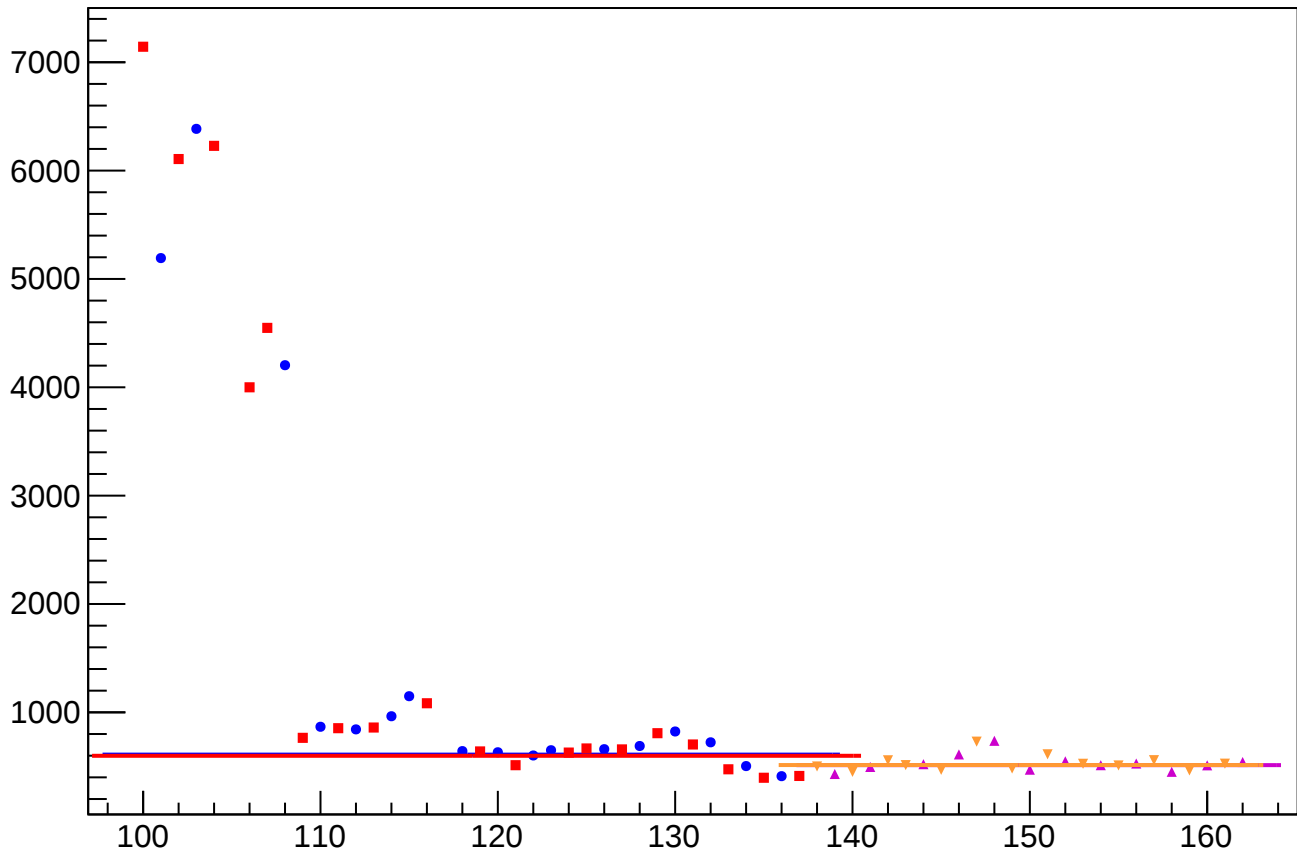
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.171 ± 0.142 χ^2/NDF : 39.8/28

Out: 0.184 ± 0.141 χ^2/NDF : 32.9/31

All: 0.007 ± 0.100 χ^2/NDF : 75.9/60

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.780 $\pm$ 0.190 χ^2 /NDF: 3135978.5/16

Left Out: 513.598 $\pm$ 0.117 χ^2 /NDF: 262947.5/12

Right Out: 599.018 $\pm$ 0.187 χ^2 /NDF: 3552387.3/18

Left In: 512.758 $\pm$ 0.118 χ^2 /NDF: 293841.0/11

Left: 513.179 $\pm$ 0.083 χ^2 /NDF: 556814.0/24

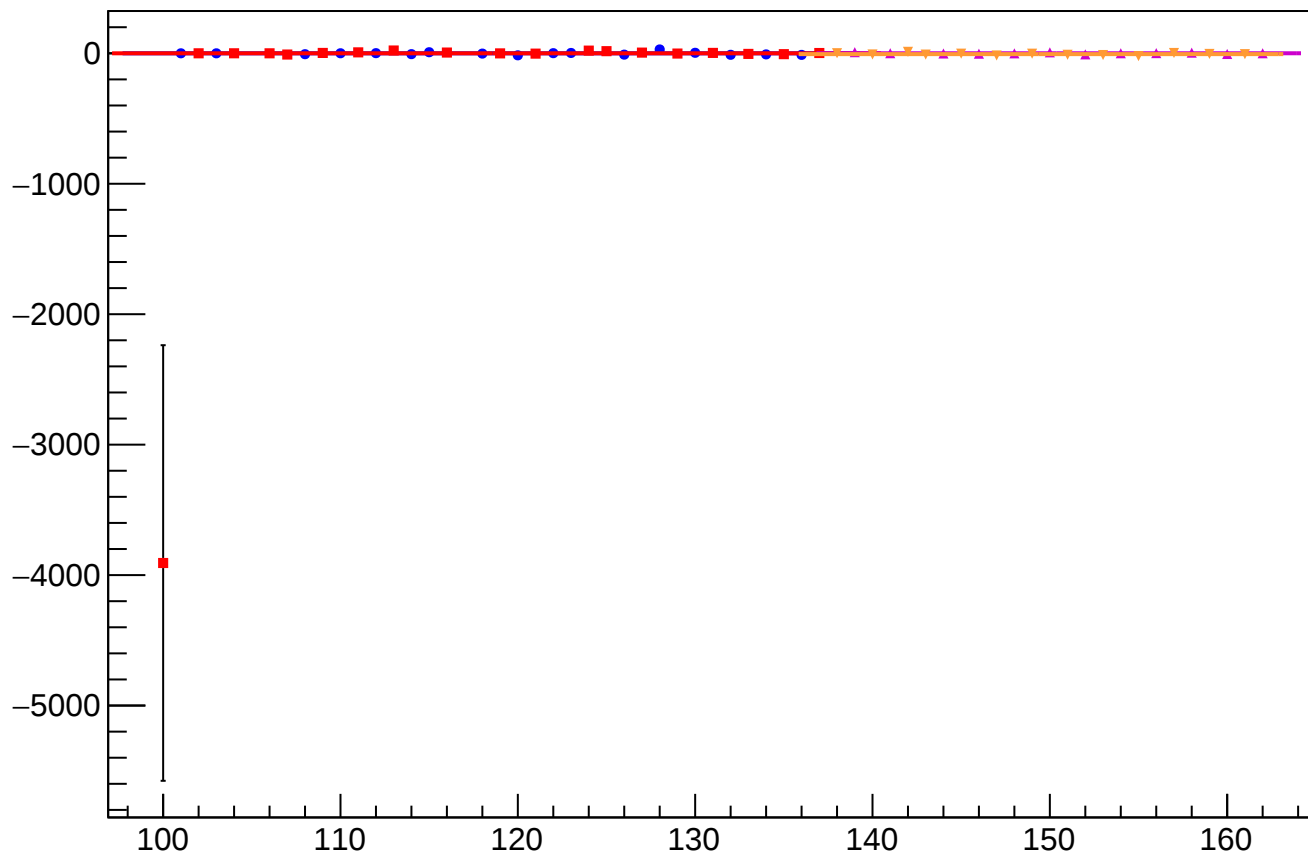
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 539.688 $\pm$ 0.100 χ^2 /NDF: 3618365.0/28

Out: 537.837 $\pm$ 0.099 χ^2 /NDF: 3965402.8/31

All: 538.757 $\pm$ 0.071 χ^2 /NDF: 7583940.0/60

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 15.6/16

Left Out: -6.287 ± 1.367 χ^2/NDF : 29.8/12

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.9/18

Left In: 0.351 ± 1.388 χ^2/NDF : 9.5/11

Left: -3.019 ± 0.974 χ^2/NDF : 50.9/24

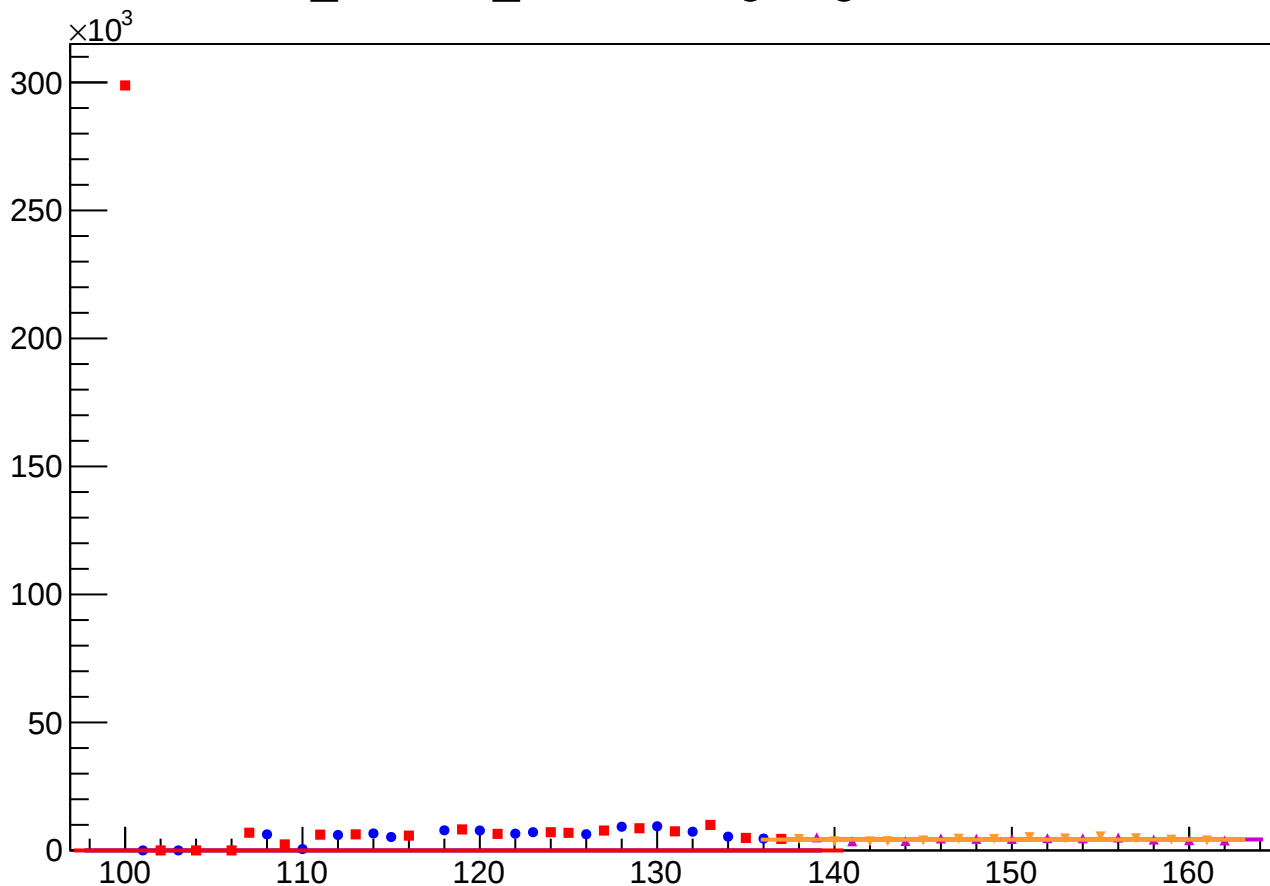
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 25.2/28

Out: 0.025 ± 0.020 χ^2/NDF : 69.0/31

All: 0.003 ± 0.014 χ^2/NDF : 96.9/60

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2/NDF : 10501445.0/16

Left Out: 4223.046+/-0.967 χ^2/NDF : 333390.4/12

Right Out: 17.269+/-0.014 χ^2/NDF : 10820611.7/18

Left In: 4291.806+/-0.982 χ^2/NDF : 253133.6/11

Left: 4256.894+/-0.689 χ^2/NDF : 589014.5/24

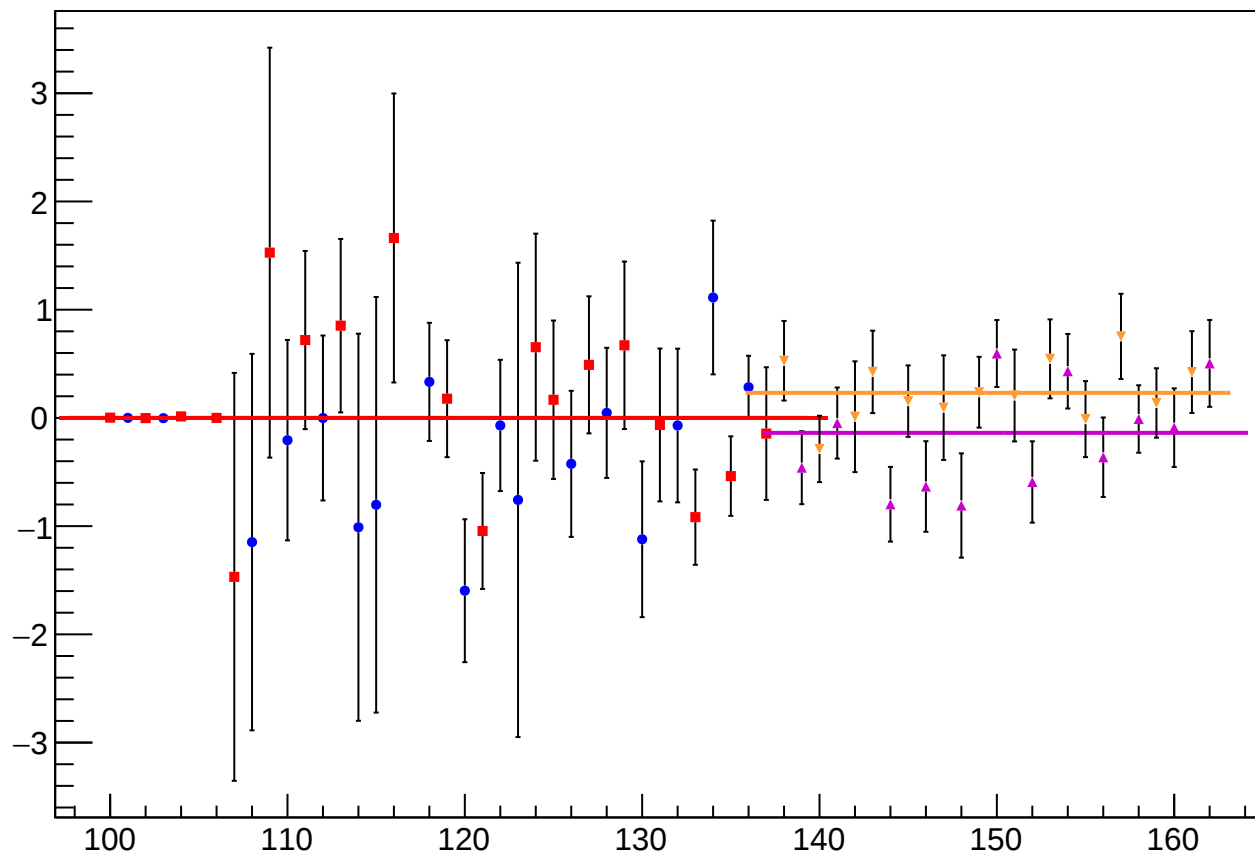
Right: 17.303+/-0.010 χ^2/NDF : 21322069.2/35

In: 18.299+/-0.015 χ^2/NDF : 29706578.6/28

Out: 18.149+/-0.014 χ^2/NDF : 30078472.5/31

All: 18.220+/-0.010 χ^2/NDF : 59785106.3/60

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2/NDF : 13.8/16

Left Out: 0.232 $\pm$ 0.102 χ^2/NDF : 7.4/12

Right Out: -0.001 $\pm$ 0.002 χ^2/NDF : 17.9/18

Left In: -0.138 $\pm$ 0.103 χ^2/NDF : 20.9/11

Left: 0.049 $\pm$ 0.073 χ^2/NDF : 34.8/24

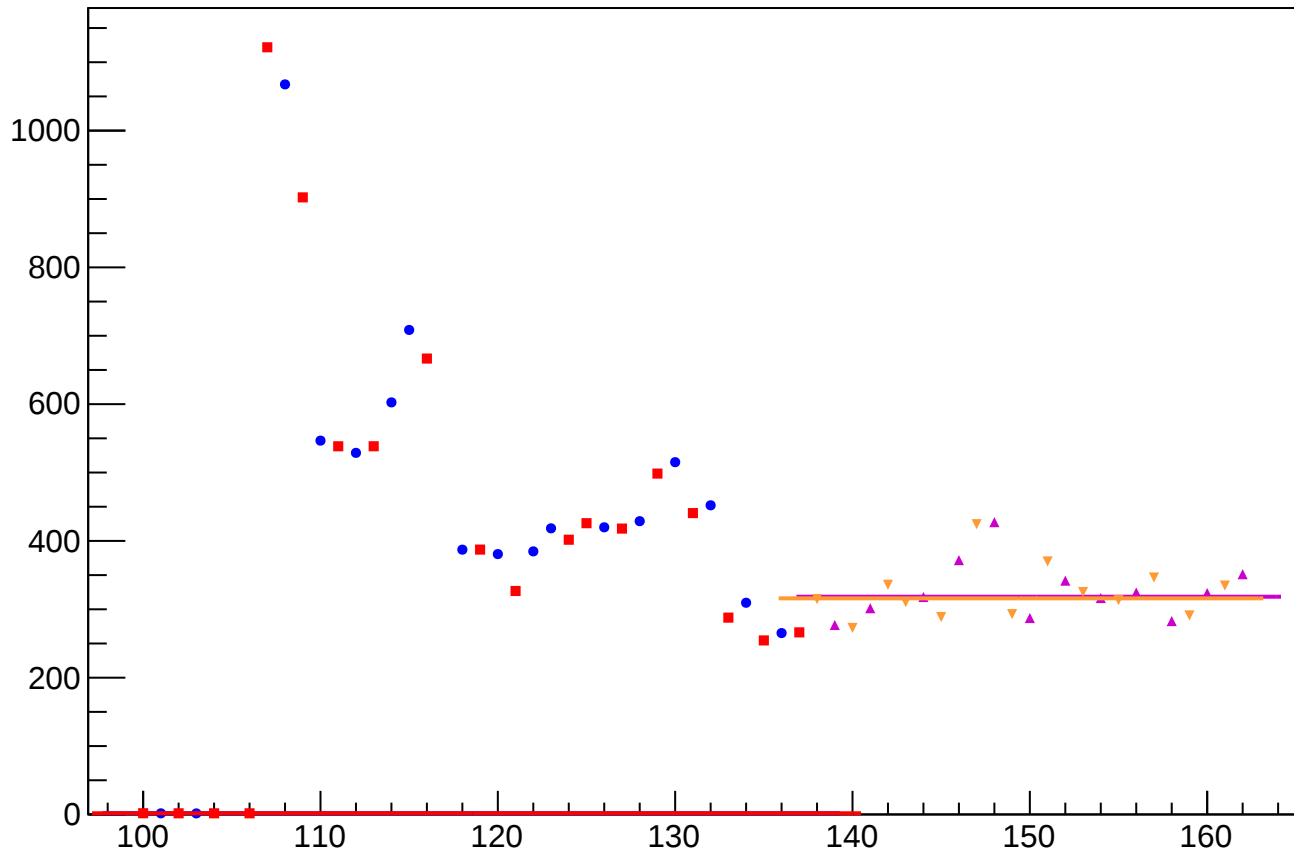
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 36.5/28

Out: -0.001 $\pm$ 0.002 χ^2/NDF : 30.5/31

All: -0.000 $\pm$ 0.001 χ^2/NDF : 67.1/60

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699+/-0.001 χ^2/NDF : 11053026.2/16

Left Out: 316.015+/-0.072 χ^2/NDF : 230338.4/12

Right Out: 1.728+/-0.001 χ^2/NDF : 10743910.0/18

Left In: 318.401+/-0.073 χ^2/NDF : 239138.7/11

Left: 317.195+/-0.051 χ^2/NDF : 470017.0/24

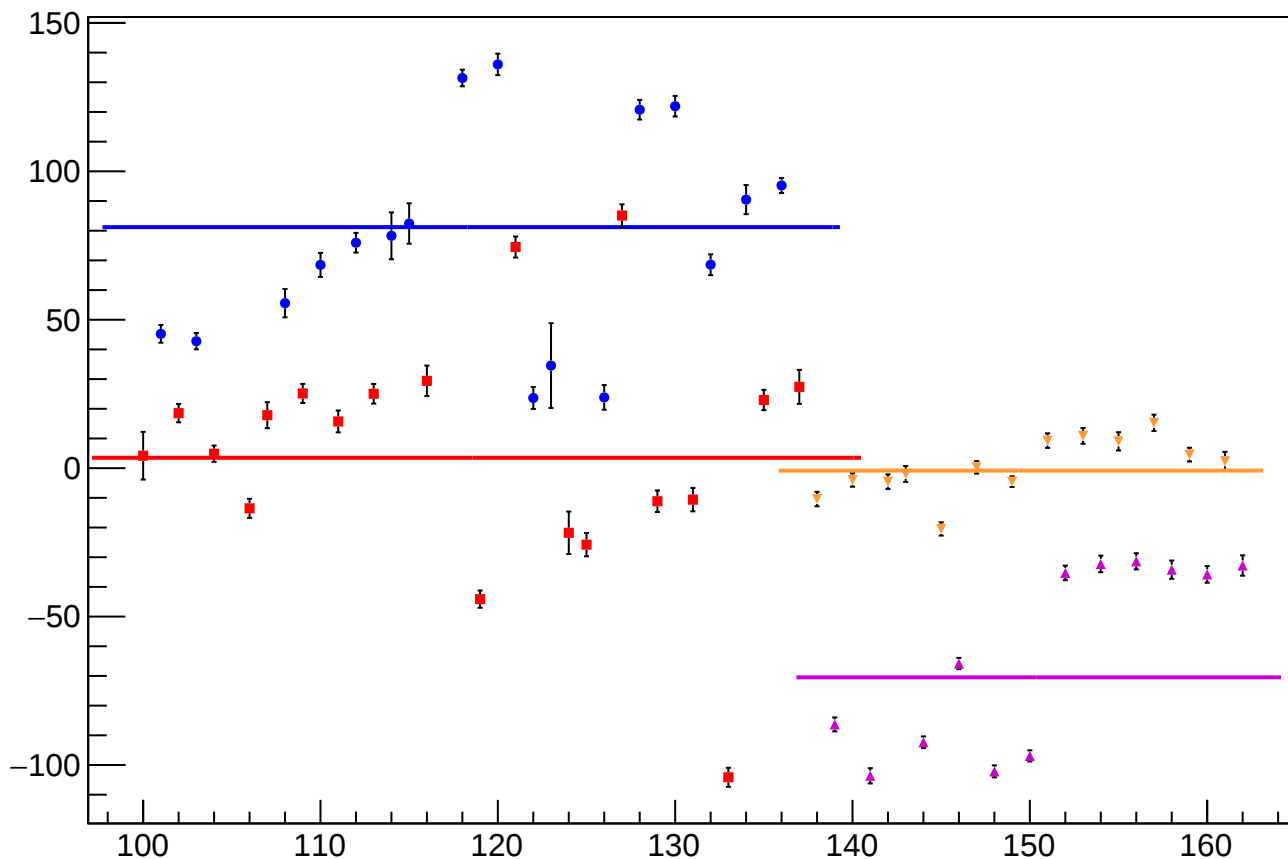
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.821+/-0.001 χ^2/NDF : 30125185.9/28

Out: 1.842+/-0.001 χ^2/NDF : 29915343.1/31

All: 1.832+/-0.001 χ^2/NDF : 60040636.5/60

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201+/-0.886 χ^2/NDF : 1709.8/16

Left Out: -0.814+/-0.671 χ^2/NDF : 188.5/12

Right Out: 3.508+/-0.843 χ^2/NDF : 2599.0/18

Left In: -70.469+/-0.682 χ^2/NDF : 1801.3/11

Left: -35.084+/-0.478 χ^2/NDF : 7290.8/24

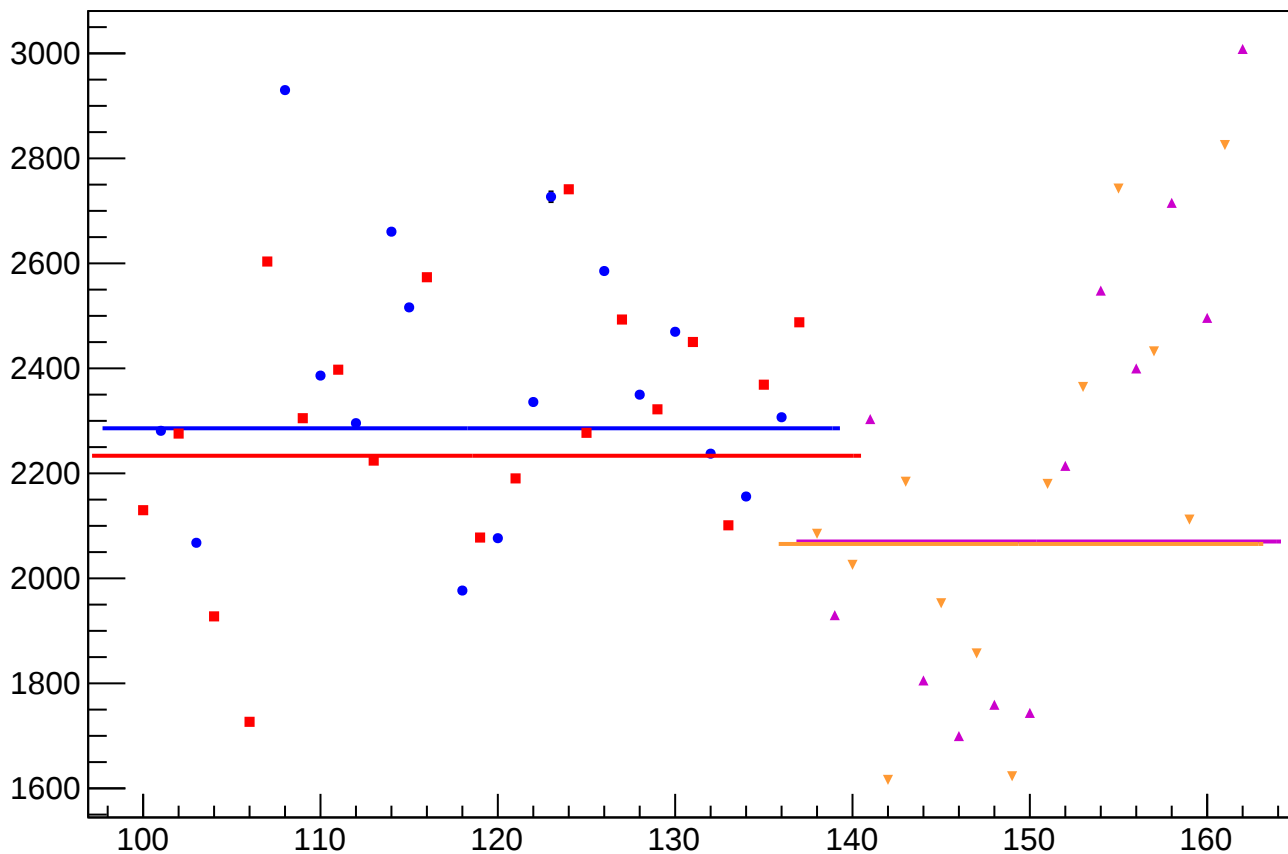
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -14.025+/-0.540 χ^2/NDF : 21922.8/28

Out: 0.864+/-0.525 χ^2/NDF : 2803.6/31

All: -6.366+/-0.376 χ^2/NDF : 25117.1/60

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855 $\pm$ 0.626 χ^2 /NDF: 109336.5/16

Left Out: 2065.536 $\pm$ 0.475 χ^2 /NDF: 492093.0/12

Right Out: 2233.547 $\pm$ 0.596 χ^2 /NDF: 146848.5/18

Left In: 2070.194 $\pm$ 0.482 χ^2 /NDF: 623233.3/11

Left: 2067.828 $\pm$ 0.338 χ^2 /NDF: 1115373.7/24

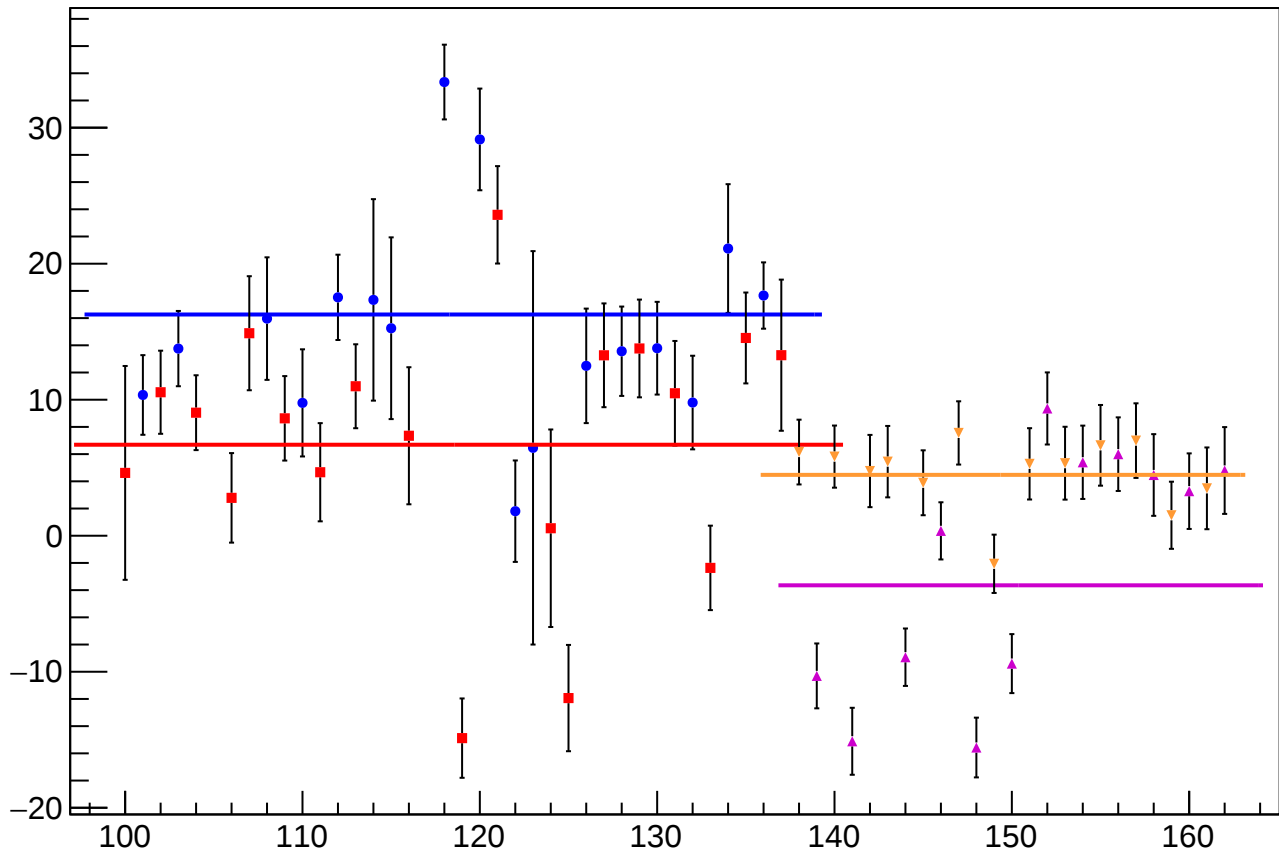
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2150.452 $\pm$ 0.382 χ^2 /NDF: 807020.1/28

Out: 2130.749 $\pm$ 0.371 χ^2 /NDF: 687604.1/31

All: 2140.316 $\pm$ 0.266 χ^2 /NDF: 1495992.5/60

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 $\pm$ 0.872 χ^2 /NDF: 80.8/16

Left Out: 4.475 $\pm$ 0.700 χ^2 /NDF:15.2/12

Right Out: 6.690 $\pm$ 0.831 χ^2 /NDF: 134.0/18

Left In: -3.645 $\pm$ 0.713 χ^2 /NDF:144.4/11

Left: 0.488 $\pm$ 0.500 χ^2 /NDF: 225.7/24

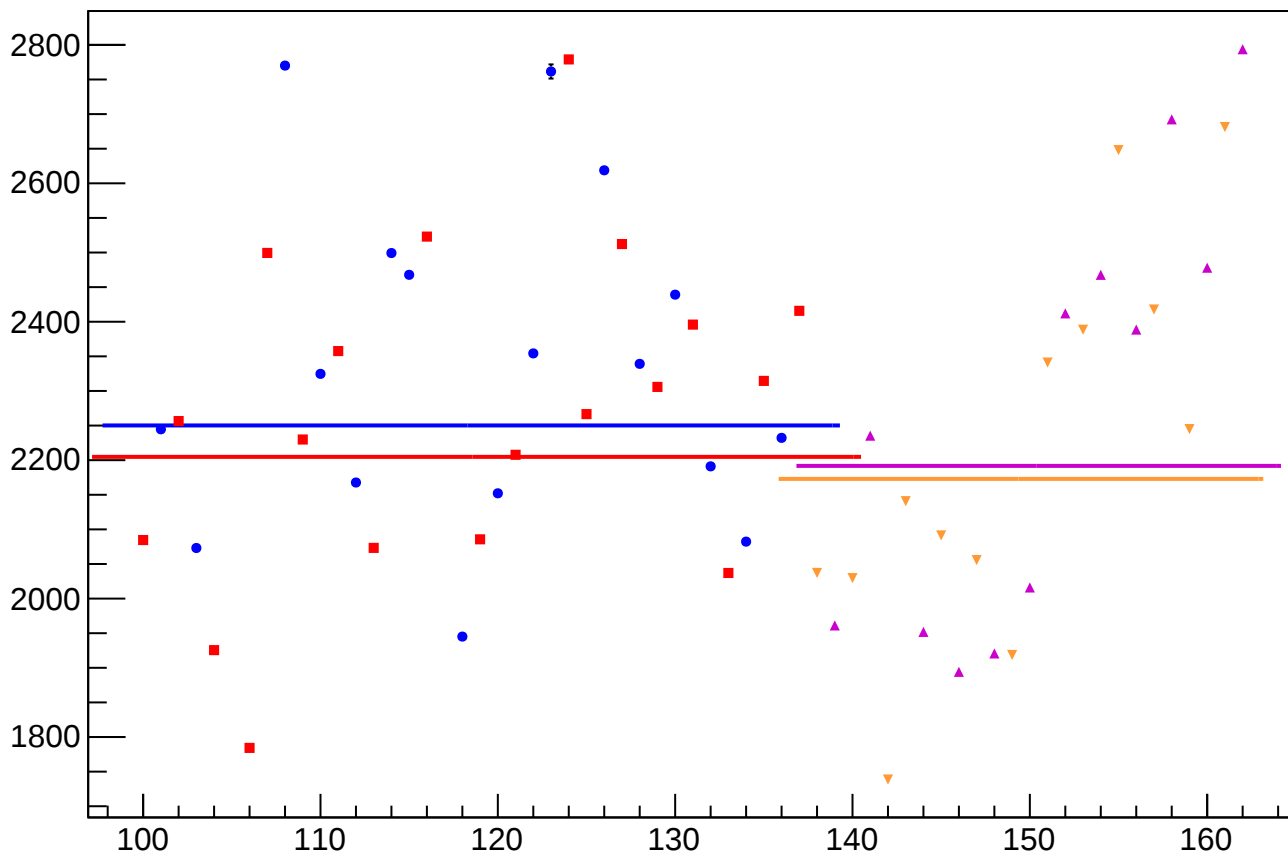
Right: 11.249 $\pm$ 0.601 χ^2 /NDF: 278.0/35

In: 4.339 $\pm$ 0.552 χ^2 /NDF:537.9/28

Out: 5.395 $\pm$ 0.535 χ^2 /NDF:153.4/31

All: 4.883 $\pm$ 0.384 χ^2 /NDF: 693.1/60

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175 ± 0.616 $\chi^2/\text{NDF}: 97578.1/16$

Left Out: 2172.965 ± 0.495 $\chi^2/\text{NDF}: 251067.7/12$

Right Out: 2204.789 ± 0.587 $\chi^2/\text{NDF}: 126227.4/18$

Left In: 2191.743 ± 0.504 $\chi^2/\text{NDF}: 322195.2/11$

Left: 2182.184 ± 0.353 $\chi^2/\text{NDF}: 573969.0/24$

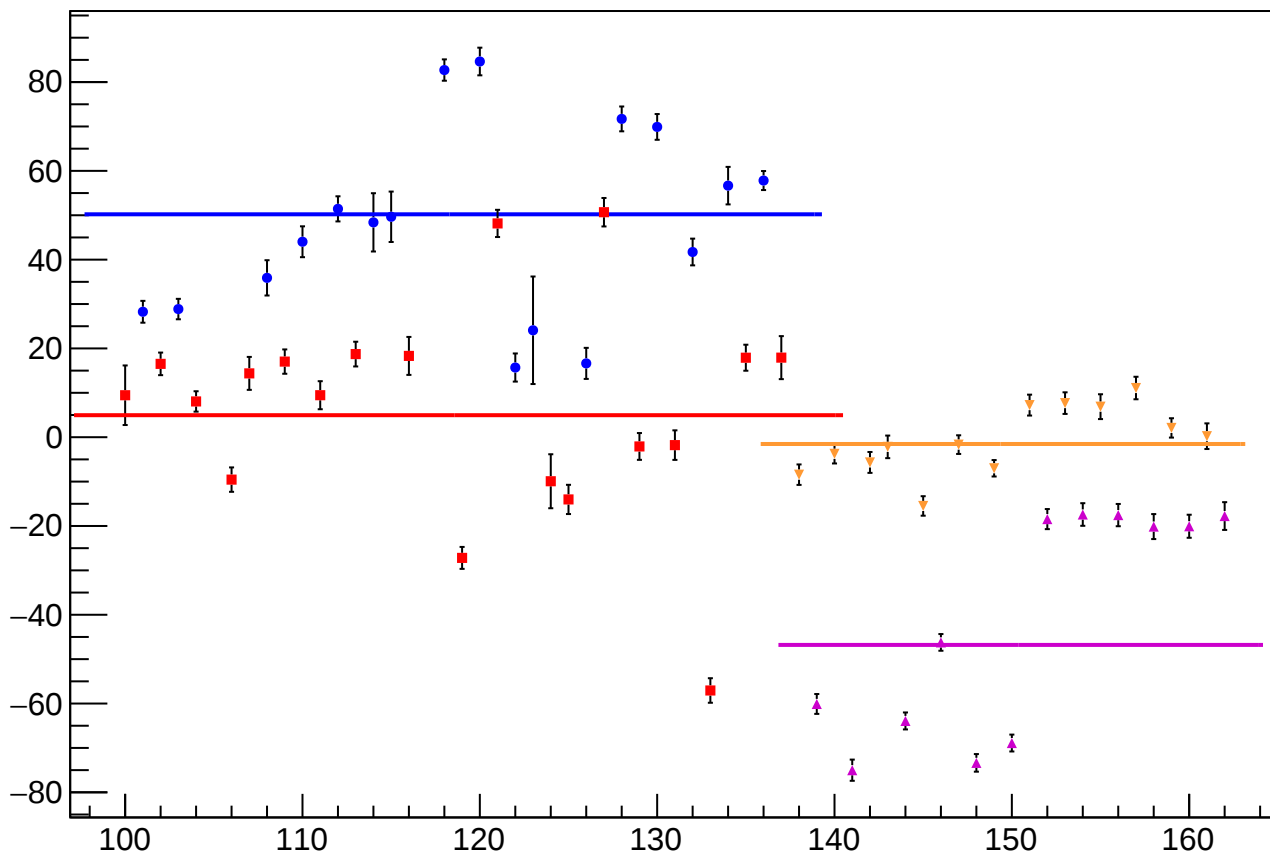
Right: 2226.396 ± 0.425 $\chi^2/\text{NDF}: 226647.4/35$

In: 2215.175 ± 0.390 $\chi^2/\text{NDF}: 425158.6/28$

Out: 2186.184 ± 0.379 $\chi^2/\text{NDF}: 379010.9/31$

All: 2200.241 ± 0.272 $\chi^2/\text{NDF}: 807012.5/60$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215+/-0.751 χ^2/NDF : 830.3/16

Left Out: -1.529+/-0.642 χ^2/NDF : 127.4/12

Right Out: 4.958+/-0.713 χ^2/NDF : 1262.6/18

Left In: -46.793+/-0.653 χ^2/NDF : 1277.7/11

Left: -23.797+/-0.458 χ^2/NDF : 3848.1/24

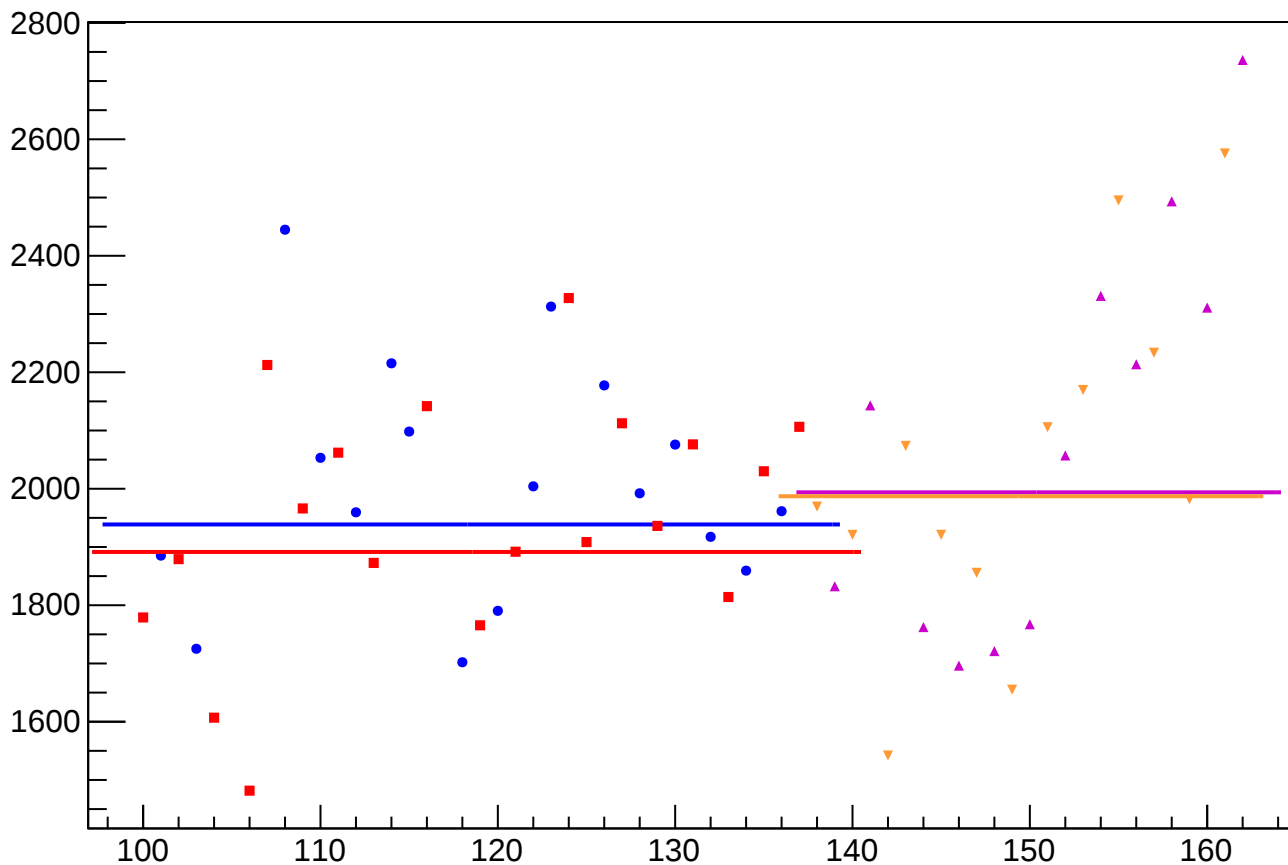
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

In: -5.032+/-0.493 χ^2/NDF : 11616.1/28

Out: 1.375+/-0.477 χ^2/NDF : 1435.7/31

All: -1.728+/-0.343 χ^2/NDF : 13139.0/60

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688 $\pm$ 0.531 χ^2 /NDF: 100143.1/16

Left Out: 1987.160 $\pm$ 0.454 χ^2 /NDF: 333990.2/12

Right Out: 1891.466 $\pm$ 0.504 χ^2 /NDF: 146622.8/18

Left In: 1993.864 $\pm$ 0.462 χ^2 /NDF: 421316.8/11

Left: 1990.458 $\pm$ 0.324 χ^2 /NDF: 755414.2/24

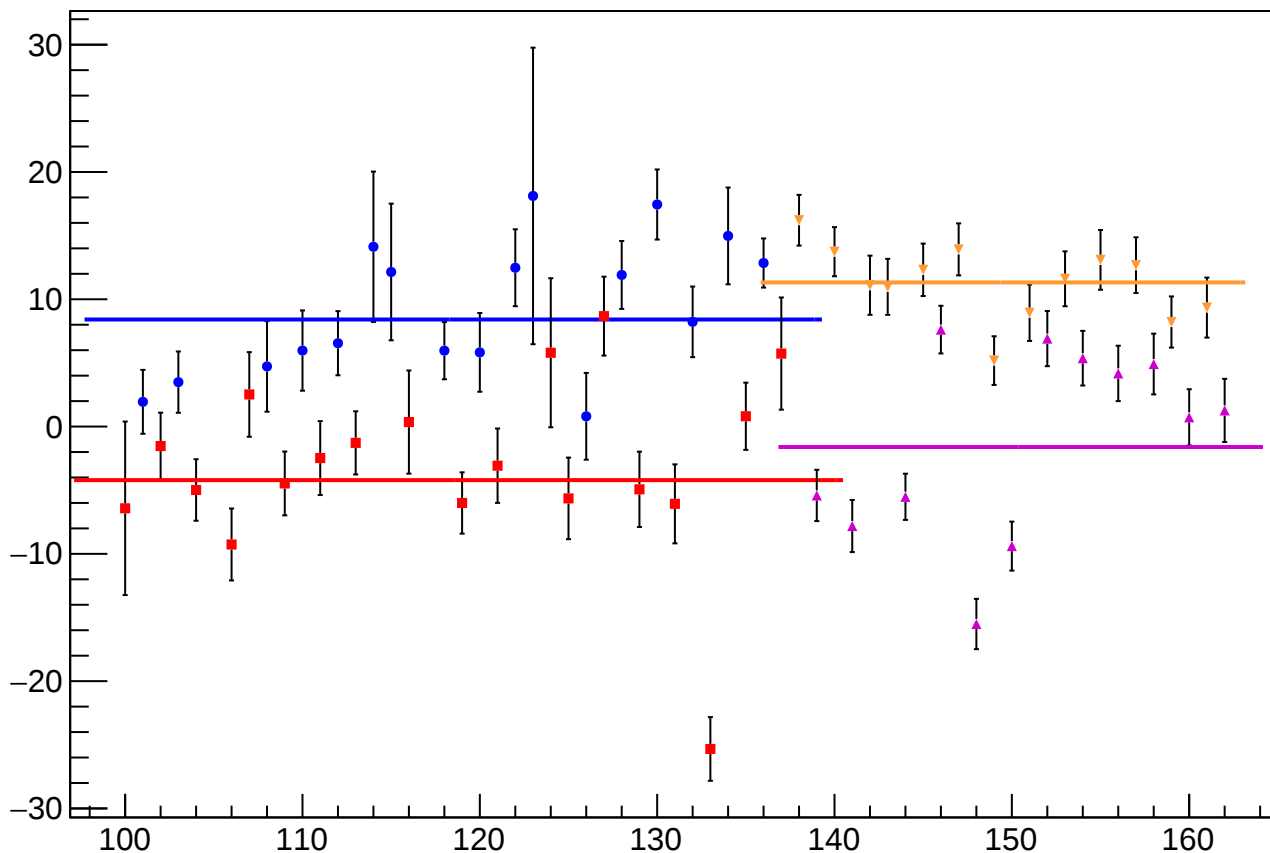
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 1970.112 $\pm$ 0.348 χ^2 /NDF: 527611.8/28

Out: 1944.317 $\pm$ 0.338 χ^2 /NDF: 500487.2/31

All: 1956.809 $\pm$ 0.242 χ^2 /NDF: 1030927.2/60

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 ± 0.711 $\chi^2/\text{NDF}: 44.6/16$

Left Out: 11.323 ± 0.587 $\chi^2/\text{NDF}: 25.0/12$

Right Out: -4.208 ± 0.682 $\chi^2/\text{NDF}: 113.1/18$

Left In: -1.607 ± 0.599 $\chi^2/\text{NDF}: 150.6/11$

Left: 4.987 ± 0.419 $\chi^2/\text{NDF}: 413.0/24$

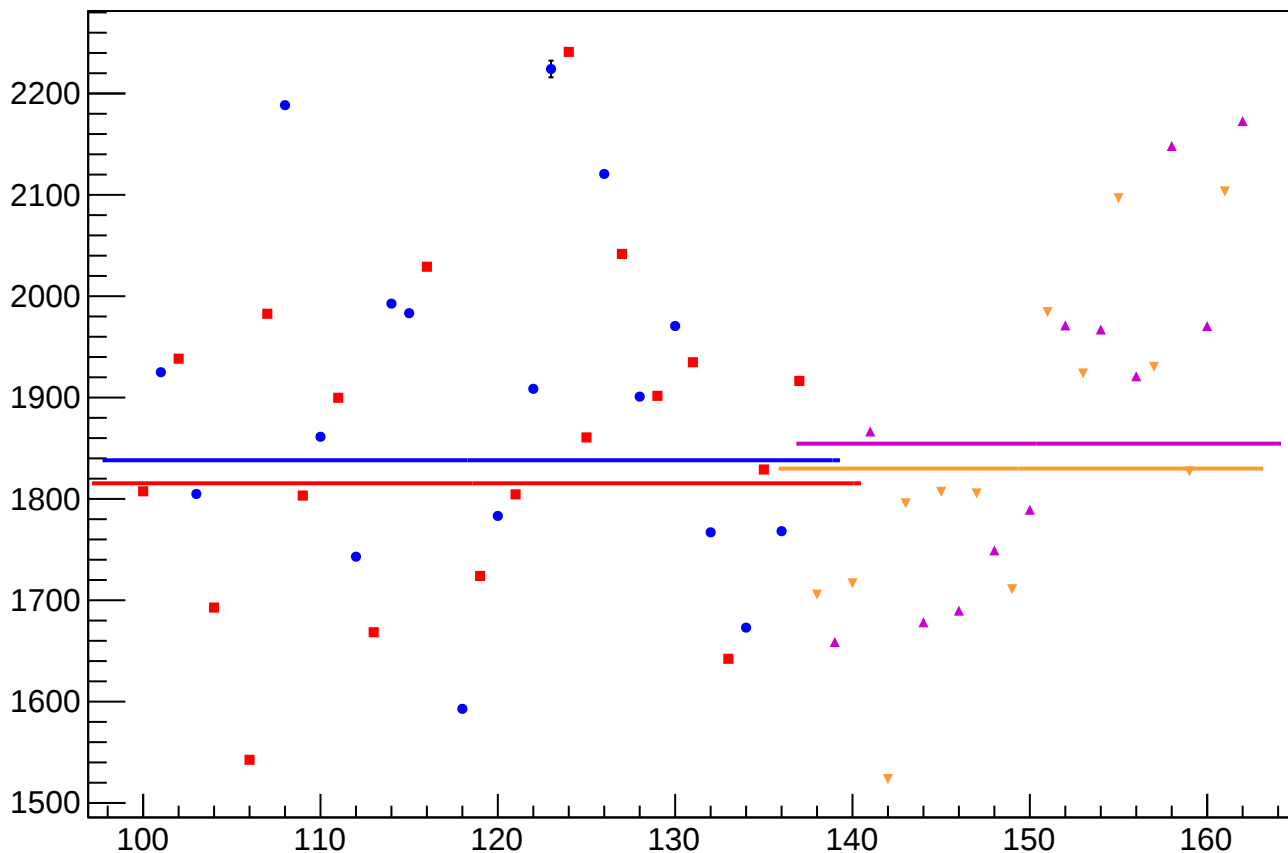
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 2.552 ± 0.458 $\chi^2/\text{NDF}: 311.2/28$

Out: 4.713 ± 0.445 $\chi^2/\text{NDF}: 435.6/31$

All: 3.664 ± 0.319 $\chi^2/\text{NDF}: 758.2/60$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.143 $\pm$ 0.503 χ^2 /NDF: 82878.7/16

Left Out: 1829.927 $\pm$ 0.415 χ^2 /NDF:128659.8/12

Right Out: 1815.403 $\pm$ 0.483 χ^2 /NDF: 87419.0/18

Left In: 1854.535 $\pm$ 0.424 χ^2 /NDF:143168.7/11

Left: 1841.986 $\pm$ 0.297 χ^2 /NDF: 273548.7/24

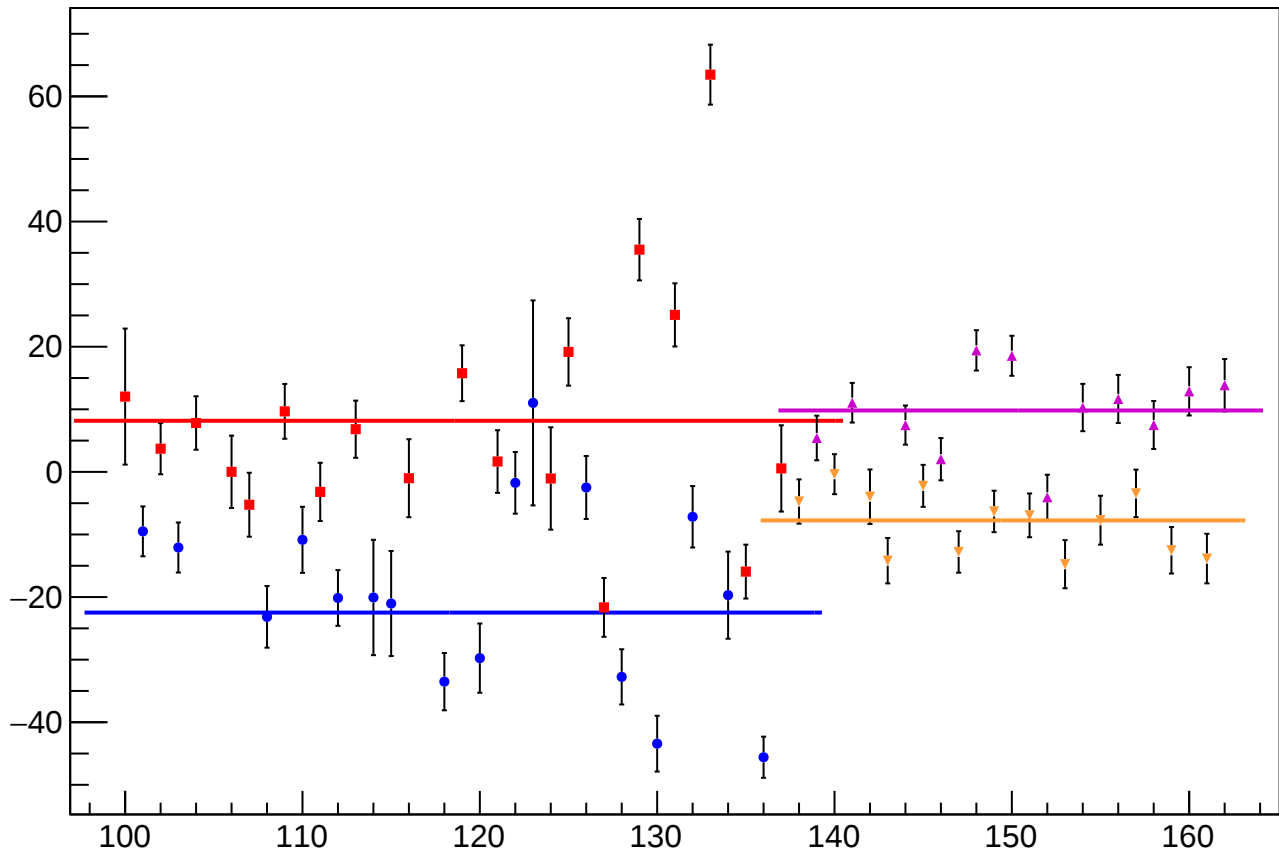
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1847.730 $\pm$ 0.324 χ^2 /NDF:226668.8/28

Out: 1823.745 $\pm$ 0.315 χ^2 /NDF:216599.2/31

All: 1835.390 $\pm$ 0.226 χ^2 /NDF: 446086.6/60

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 ± 1.195 χ^2/NDF : 154.7/16

Left Out: -7.754 ± 1.001 χ^2/NDF : 23.9/12

Right Out: 8.169 ± 1.157 χ^2/NDF : 276.9/18

Left In: 9.814 ± 1.016 χ^2/NDF : 40.9/11

Left: 0.902 ± 0.713 χ^2/NDF : 216.6/24

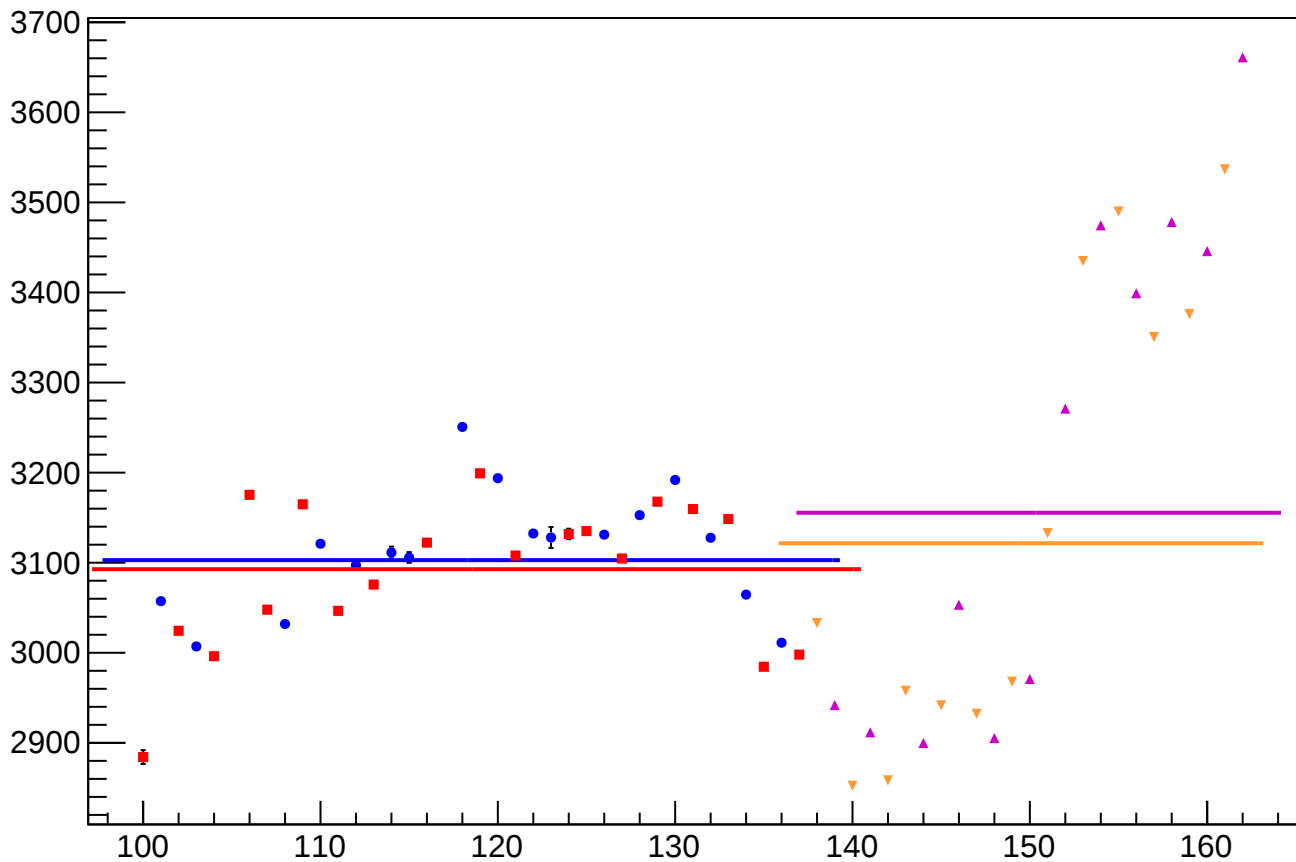
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.731 ± 0.774 χ^2/NDF : 619.8/28

Out: -0.936 ± 0.757 χ^2/NDF : 409.2/31

All: -2.302 ± 0.541 χ^2/NDF : 1035.6/60

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16

Left Out: 3121.614 $\pm$ 0.708 χ^2 /NDF:113109.2/12

Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18

Left In: 3155.453 $\pm$ 0.718 χ^2 /NDF:132045.1/11

Left: 3138.286 $\pm$ 0.504 χ^2 /NDF: 246281.0/24

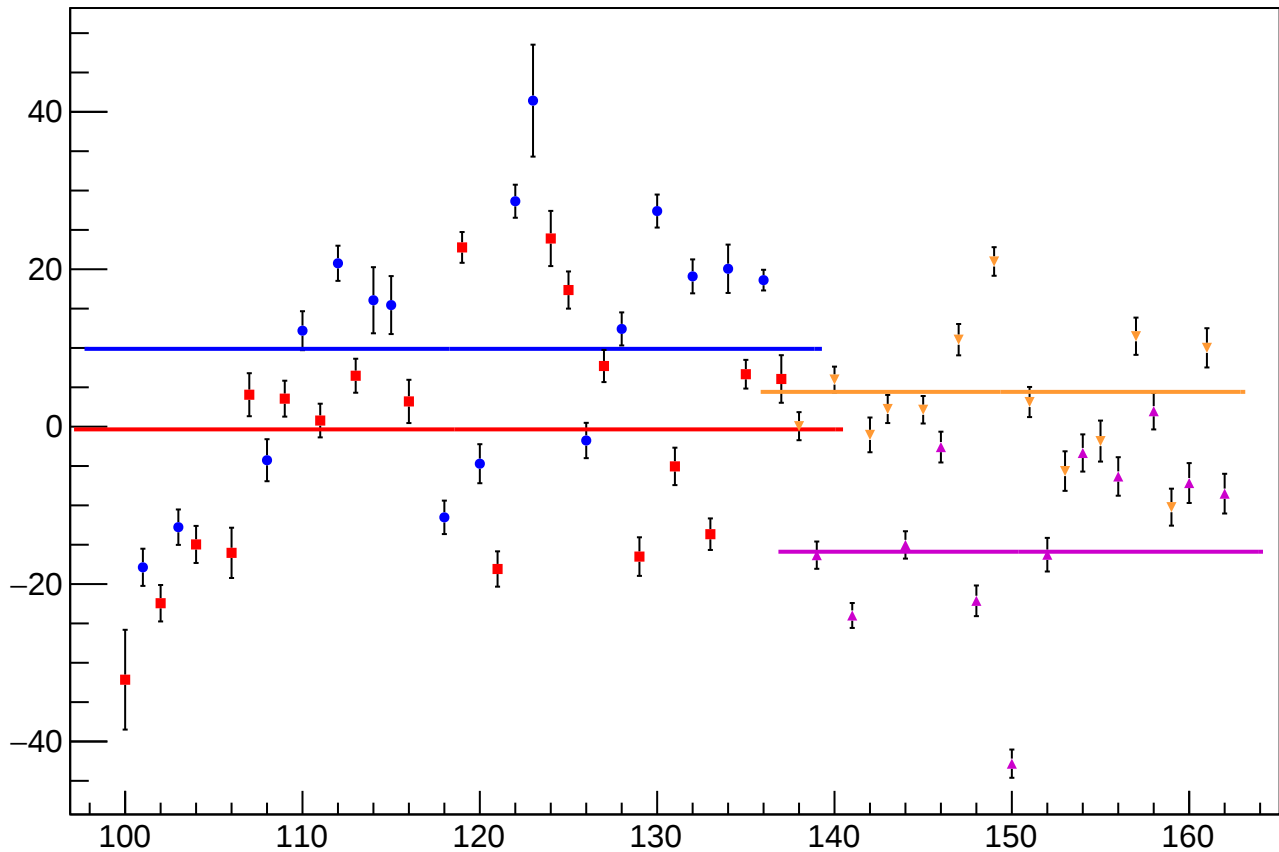
Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35

In: 3133.387 $\pm$ 0.547 χ^2 /NDF:141641.3/28

Out: 3109.274 $\pm$ 0.535 χ^2 /NDF:121582.7/31

All: 3121.063 $\pm$ 0.383 χ^2 /NDF: 264216.8/60

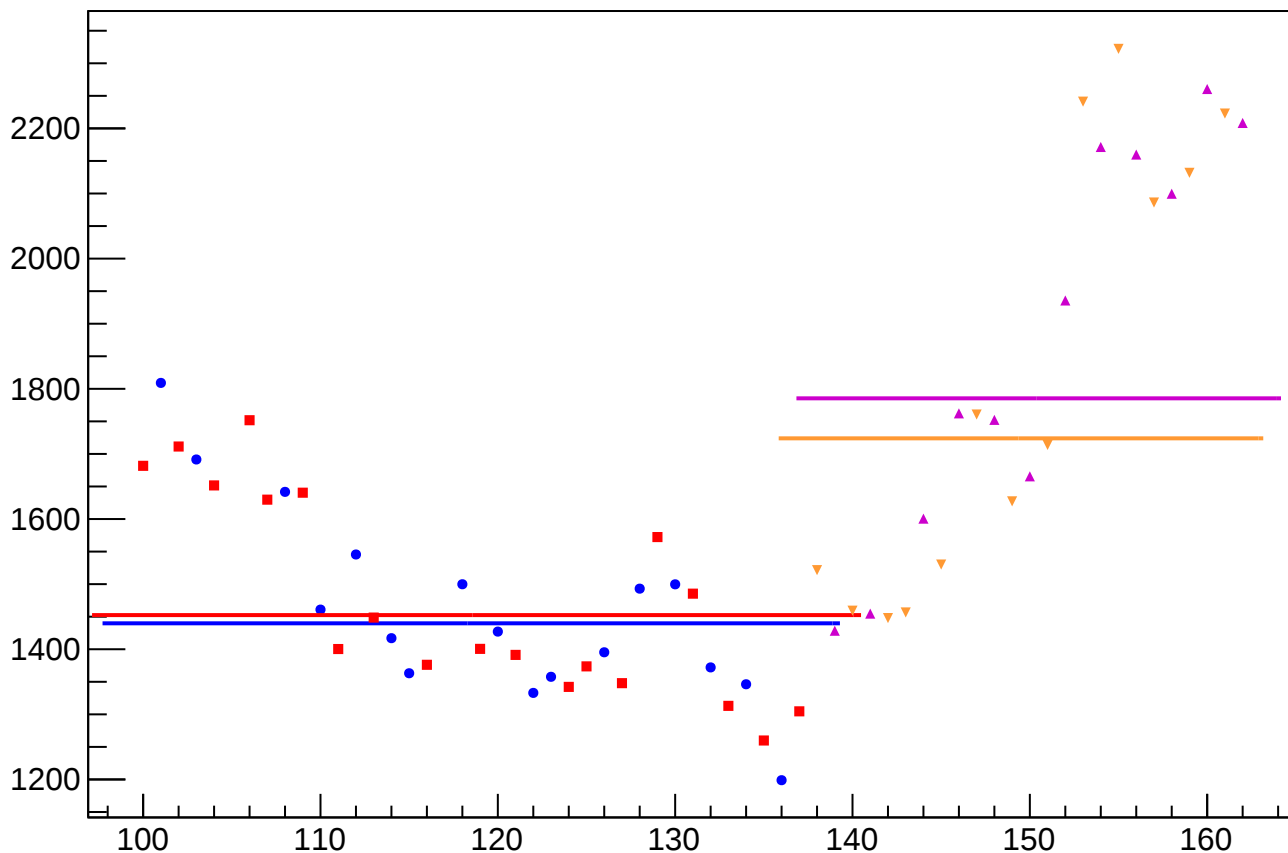
diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 $\chi^2/\text{NDF}: 703.6/16$
 Left Out: 4.421 ± 0.560 $\chi^2/\text{NDF}: 185.6/12$
 Right Out: -0.346 ± 0.547 $\chi^2/\text{NDF}: 628.9/18$
 Left In: -15.891 ± 0.581 $\chi^2/\text{NDF}: 431.2/11$

Left: -5.362 ± 0.403 $\chi^2/\text{NDF}: 1250.2/24$
 Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$
 In: -2.514 ± 0.403 $\chi^2/\text{NDF}: 2156.2/28$
 Out: 1.980 ± 0.391 $\chi^2/\text{NDF}: 851.5/31$
 All: -0.201 ± 0.281 $\chi^2/\text{NDF}: 3071.7/60$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826 $\pm$ 0.396 χ^2 /NDF: 172823.5/16

Left Out: 1723.936 $\pm$ 0.396 χ^2 /NDF: 562485.7/12

Right Out: 1452.452 $\pm$ 0.387 χ^2 /NDF: 138519.7/18

Left In: 1785.391 $\pm$ 0.411 χ^2 /NDF: 477780.2/11

Left: 1753.536 $\pm$ 0.285 χ^2 /NDF: 1051862.4/24

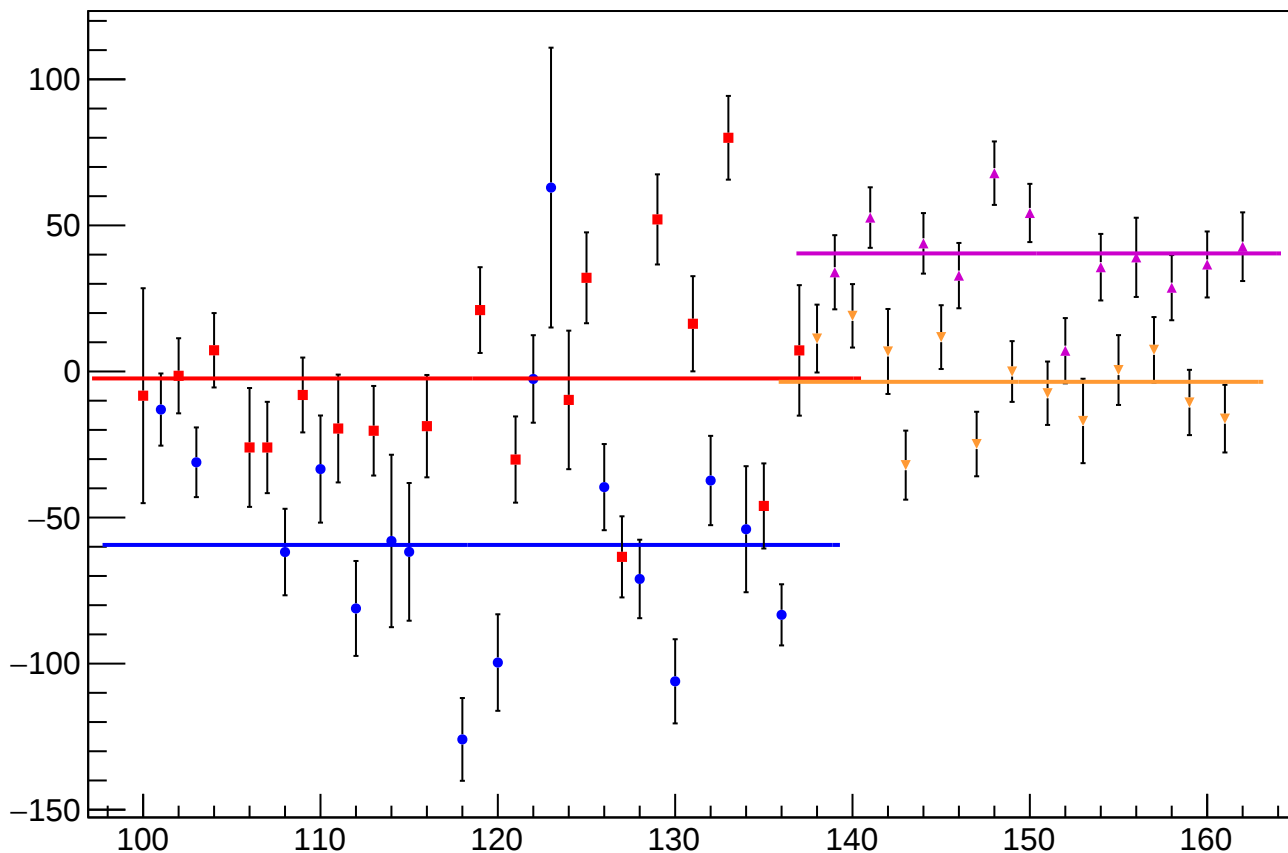
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1606.074 $\pm$ 0.285 χ^2 /NDF: 1017670.1/28

Out: 1584.950 $\pm$ 0.277 χ^2 /NDF: 941551.8/31

All: 1595.200 $\pm$ 0.199 χ^2 /NDF: 1962050.3/60

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 χ^2/NDF : 92.9/16

Left Out: -3.543 ± 3.205 χ^2/NDF : 21.7/12

Right Out: -2.388 ± 3.630 χ^2/NDF : 93.9/18

Left In: 40.410 ± 3.233 χ^2/NDF : 20.9/11

Left: 18.242 ± 2.276 χ^2/NDF : 135.8/24

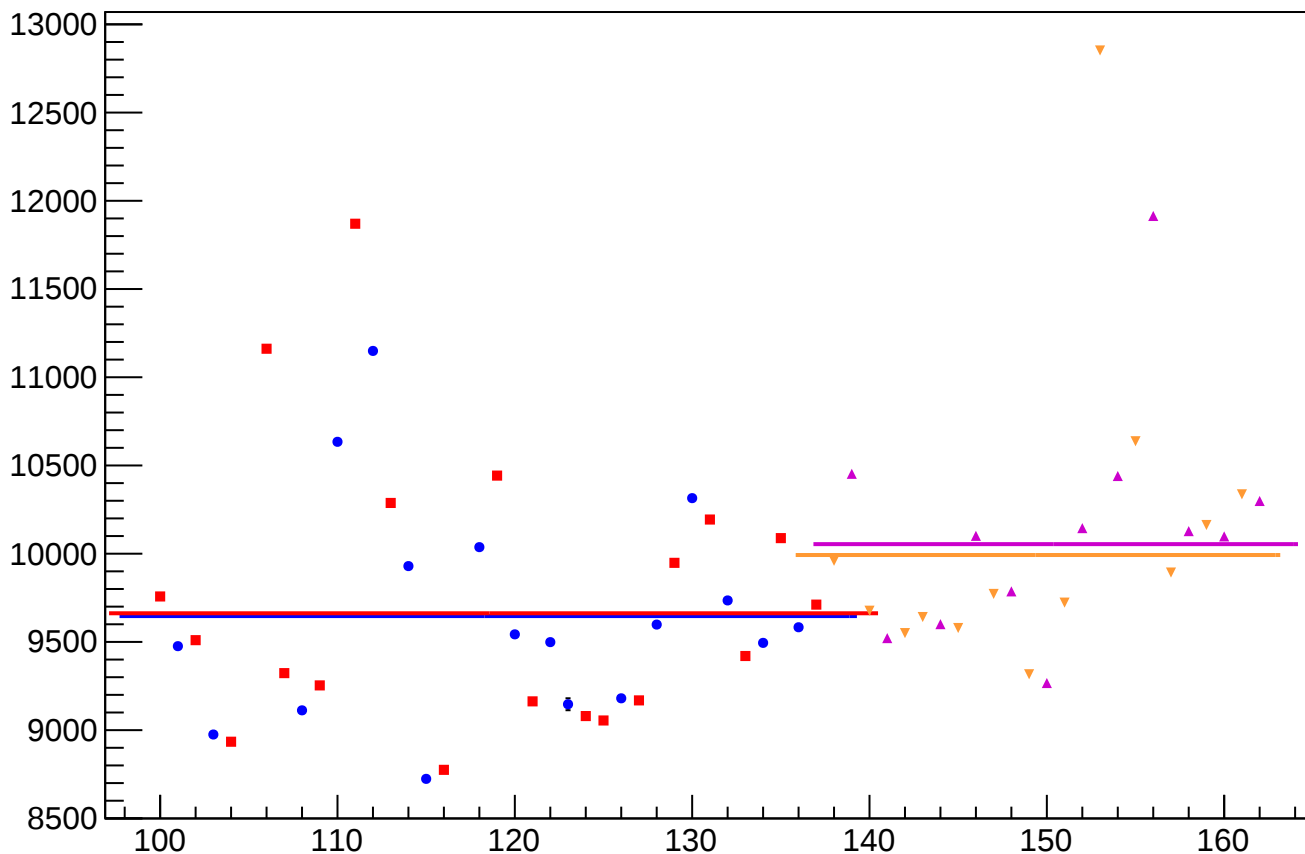
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: -2.416 ± 2.443 χ^2/NDF : 522.5/28

Out: -3.037 ± 2.403 χ^2/NDF : 115.7/31

All: -2.732 ± 1.713 χ^2/NDF : 638.3/60

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480+/-2.637 χ^2/NDF : 44060.3/16

Left Out: 9992.538+/-2.266 χ^2/NDF : 105221.5/12

Right Out: 9662.363+/-2.567 χ^2/NDF : 77584.0/18

Left In: 10054.194+/-2.286 χ^2/NDF : 65854.1/11

Left: 10023.098+/-1.610 χ^2/NDF : 171442.5/24

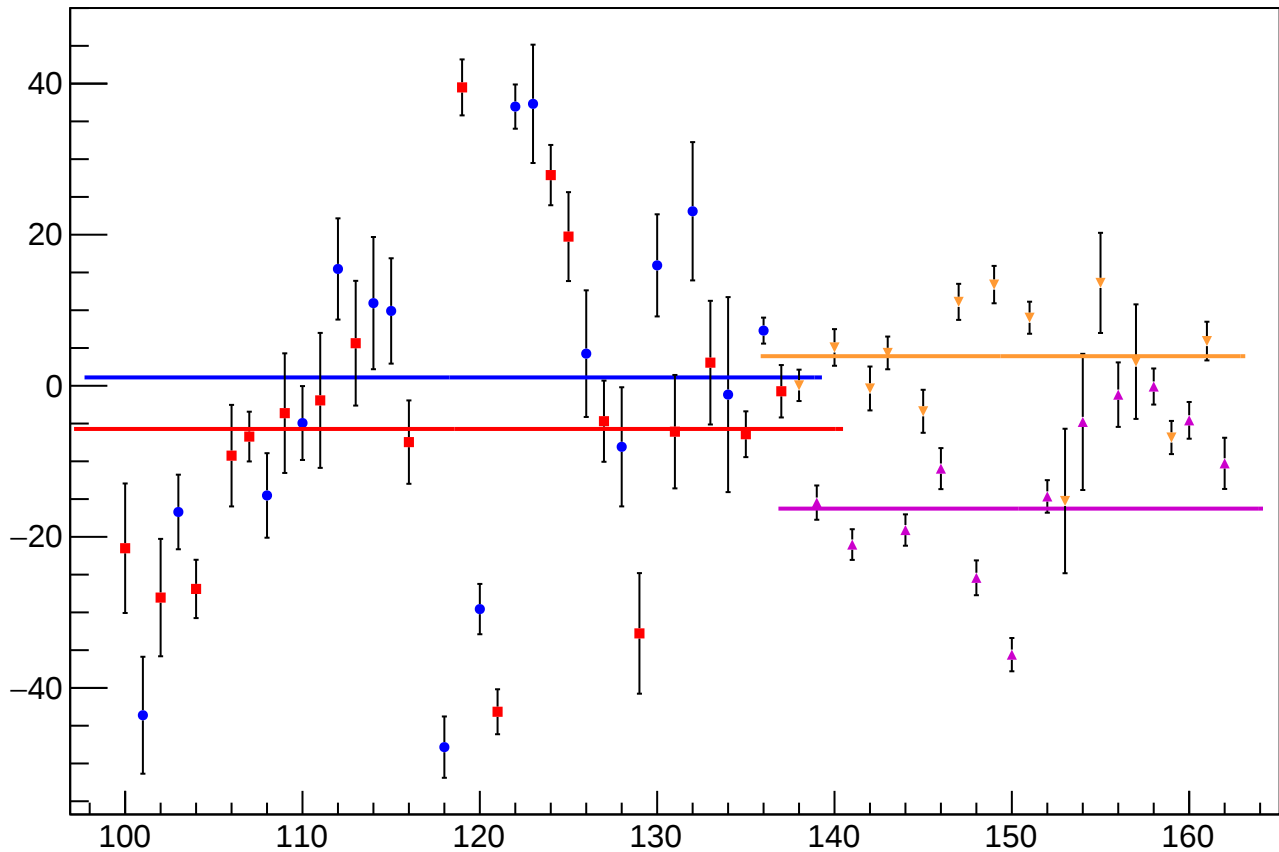
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 9879.209+/-1.727 χ^2/NDF : 123563.2/28

Out: 9847.874+/-1.699 χ^2/NDF : 192103.9/31

All: 9863.281+/-1.211 χ^2/NDF : 315834.4/60

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 $\pm$ 1.066 χ^2/NDF : 489.7/16

Left Out: 3.917 $\pm$ 0.739 χ^2/NDF : 72.8/12

Right Out: -5.716 $\pm$ 1.091 χ^2/NDF : 456.0/18

Left In: -16.262 $\pm$ 0.723 χ^2/NDF : 190.7/11

Left: -6.397 $\pm$ 0.517 χ^2/NDF : 644.1/24

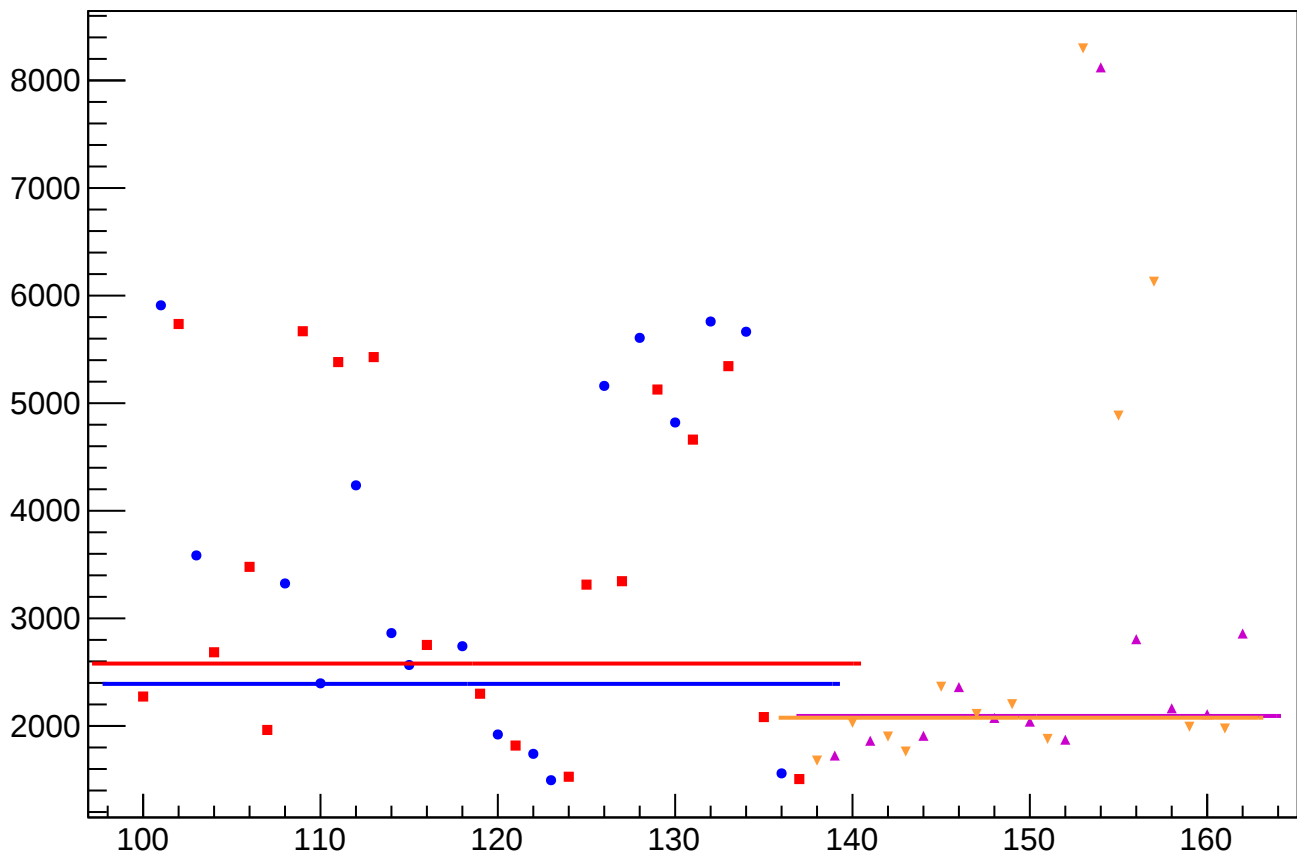
Right: -2.227 $\pm$ 0.763 χ^2/NDF : 965.6/35

In: -10.791 $\pm$ 0.599 χ^2/NDF : 862.0/28

Out: 0.885 $\pm$ 0.612 χ^2/NDF : 582.1/31

All: -5.084 $\pm$ 0.428 χ^2/NDF : 1630.2/60

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162 $\pm$ 0.754 χ^2 /NDF: 2600547.2/16

Left Out: 2076.528 $\pm$ 0.523 χ^2 /NDF: 1949564.3/12

Right Out: 2580.040 $\pm$ 0.772 χ^2 /NDF: 2365271.4/18

Left In: 2093.034 $\pm$ 0.511 χ^2 /NDF: 1190460.5/11

Left: 2084.965 $\pm$ 0.366 χ^2 /NDF: 3140534.2/24

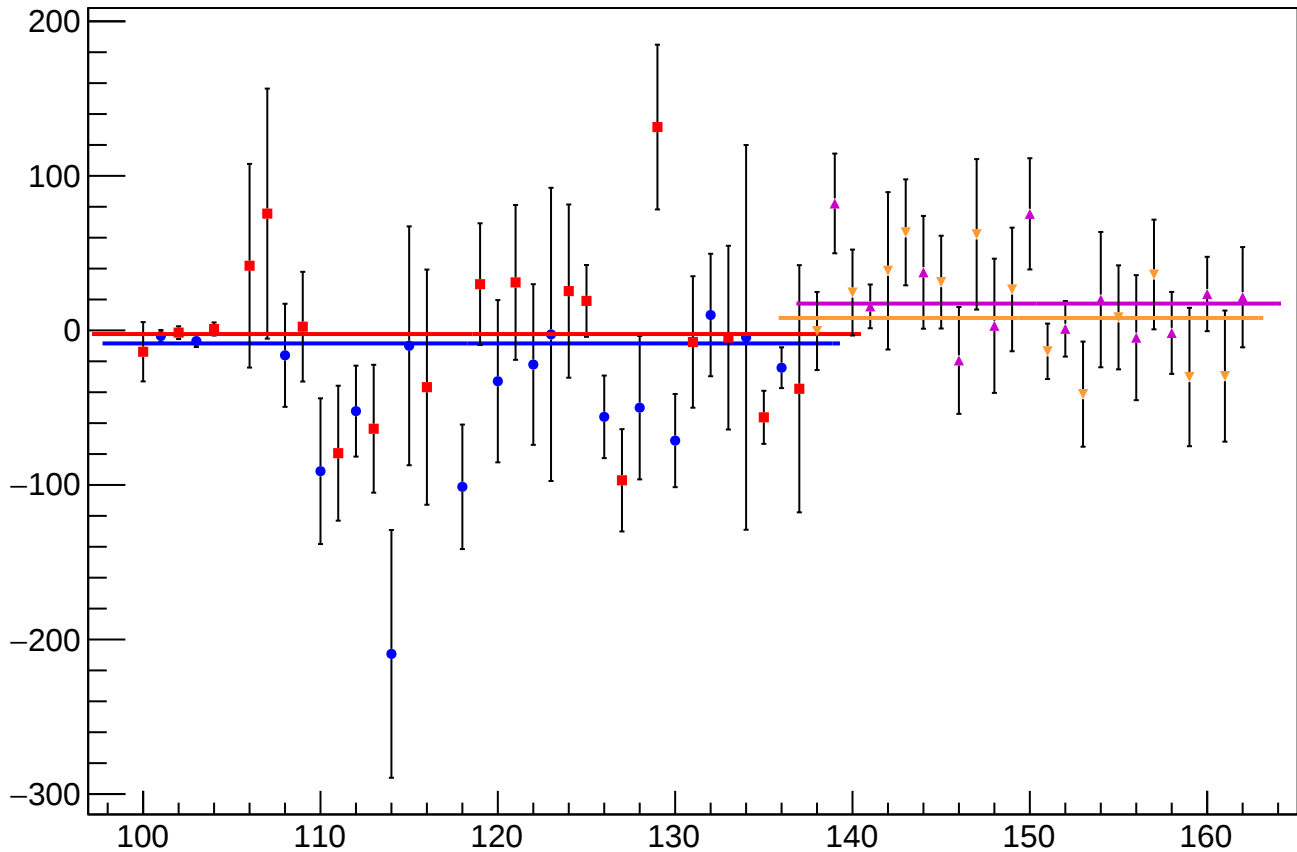
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2186.934 $\pm$ 0.423 χ^2 /NDF: 3898075.0/28

Out: 2234.997 $\pm$ 0.433 χ^2 /NDF: 4606693.5/31

All: 2210.426 $\pm$ 0.303 χ^2 /NDF: 8511072.2/60

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 $\pm$ 2.587 χ^2/NDF : 28.9/16

Left Out: 8.067 $\pm$ 8.786 χ^2/NDF : 11.2/12

Right Out: -2.348 $\pm$ 2.787 χ^2/NDF : 34.7/18

Left In: 17.355 $\pm$ 7.631 χ^2/NDF : 9.9/11

Left: 13.361 $\pm$ 5.761 χ^2/NDF : 21.7/24

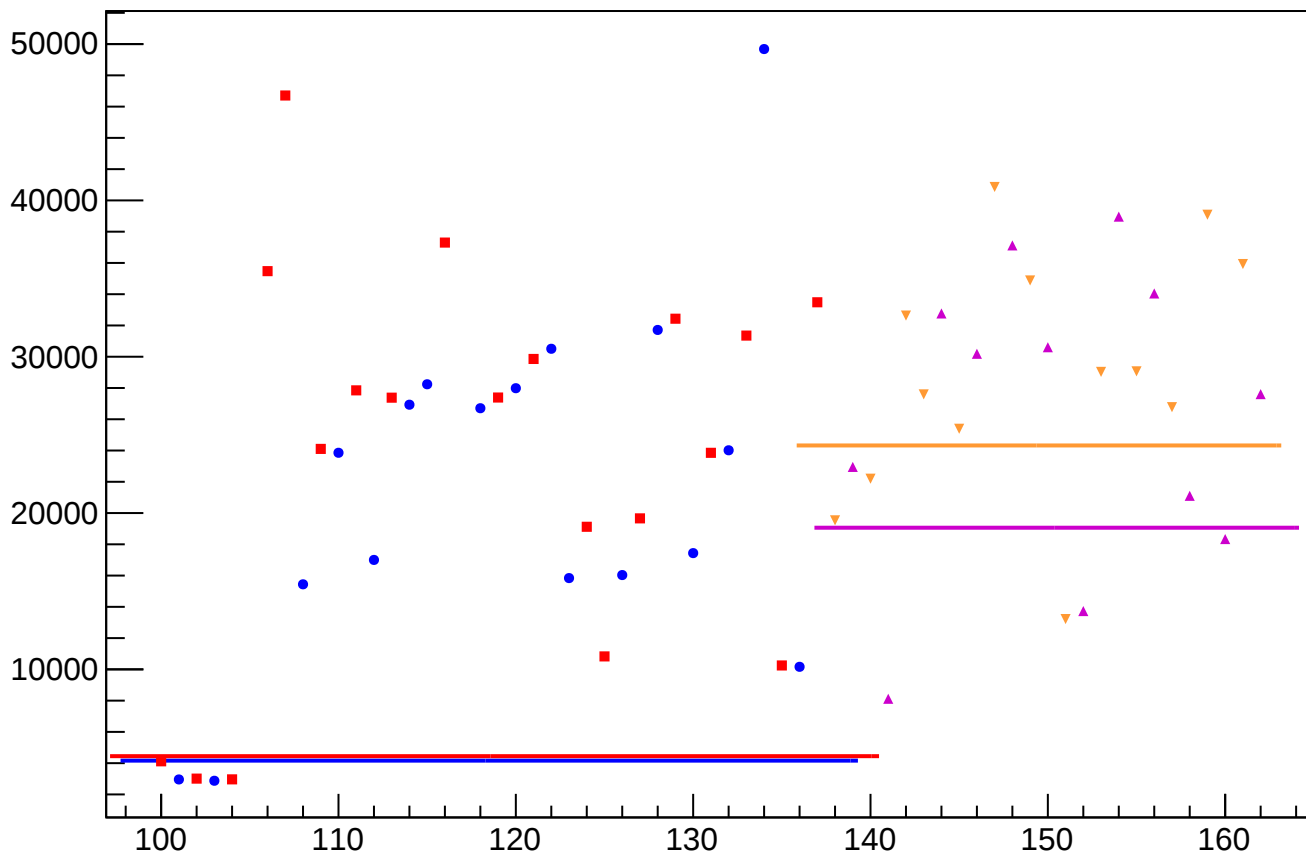
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.771 $\pm$ 2.450 χ^2/NDF : 49.1/28

Out: -1.396 $\pm$ 2.656 χ^2/NDF : 47.1/31

All: -3.760 $\pm$ 1.801 χ^2/NDF : 97.6/60

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318+/-1.830 χ^2/NDF : 5990070.5/16

Left Out: 24324.171+/-6.212 χ^2/NDF : 1748380.9/12

Right Out: 4447.123+/-1.971 χ^2/NDF : 7426930.4/18

Left In: 19061.486+/-5.396 χ^2/NDF : 3282682.8/11

Left: 21324.540+/-4.074 χ^2/NDF : 5440092.5/24

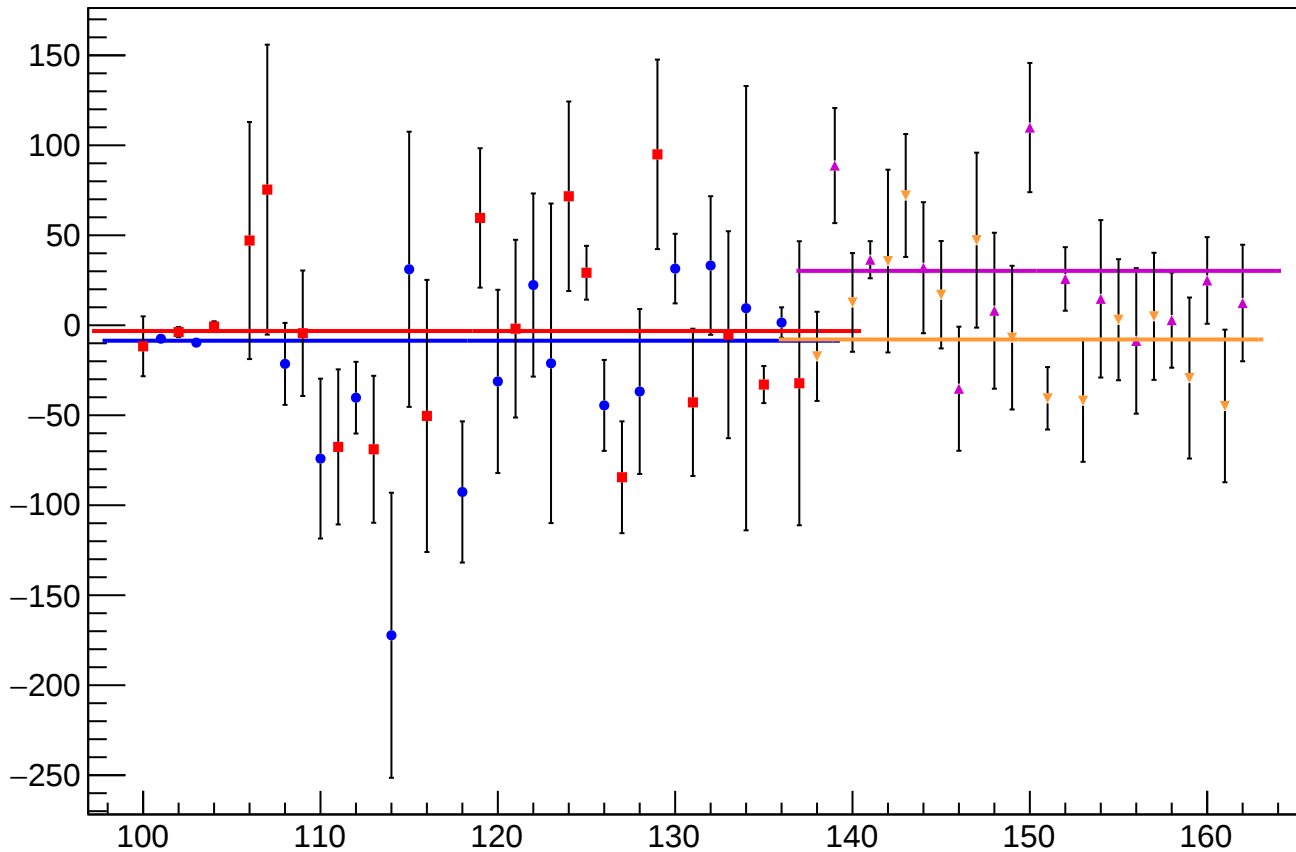
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 5698.555+/-1.733 χ^2/NDF : 16110534.6/28

Out: 6264.251+/-1.878 χ^2/NDF : 18476667.5/31

All: 5958.622+/-1.274 χ^2/NDF : 34636205.1/6

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.586 $\pm$ 1.778 χ^2/NDF : 24.4/16

Left Out: -7.884 $\pm$ 8.667 χ^2/NDF : 14.7/12

Right Out: -3.194 $\pm$ 1.922 χ^2/NDF : 36.9/18

Left In: 30.232 $\pm$ 6.782 χ^2/NDF : 15.0/11

Left: 15.755 $\pm$ 5.341 χ^2/NDF : 41.7/24

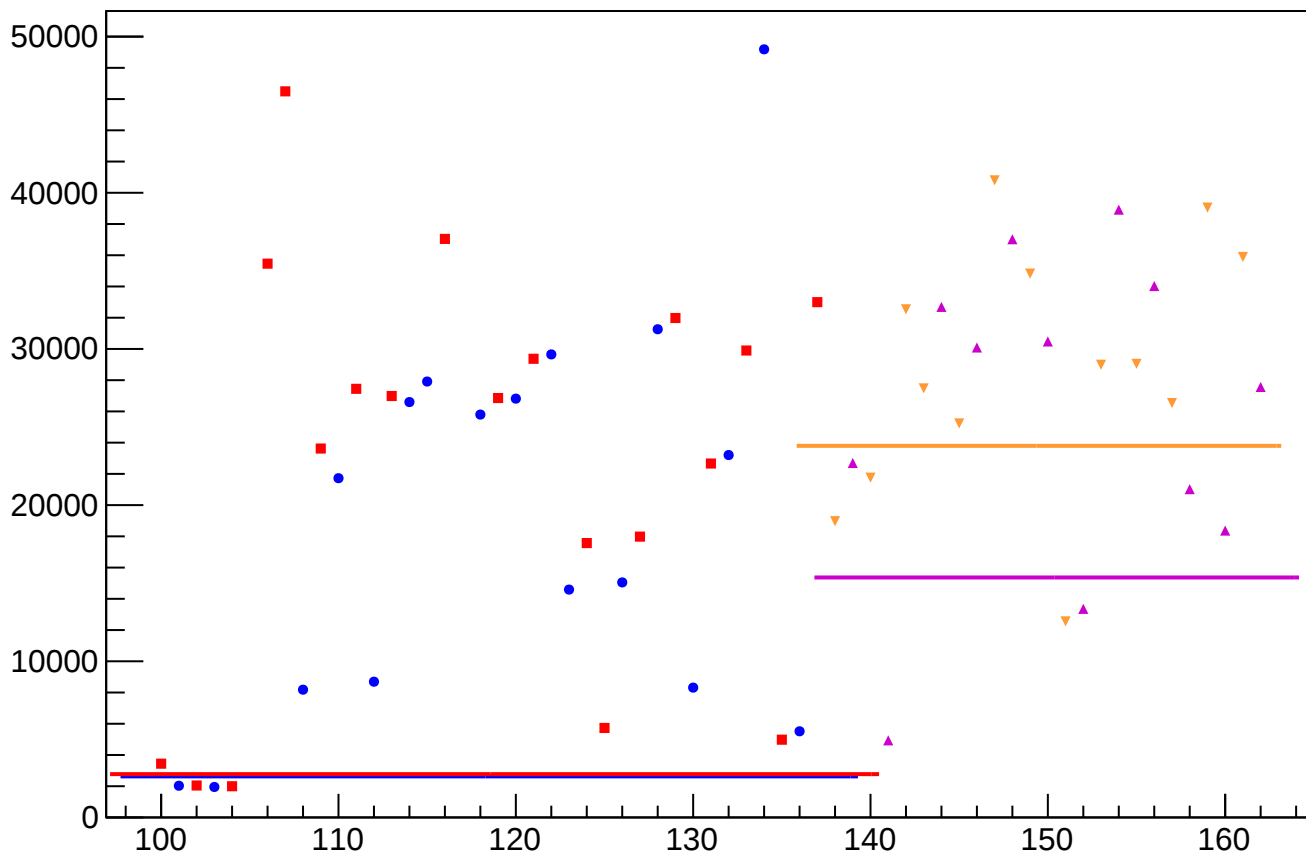
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -6.091 $\pm$ 1.720 χ^2/NDF : 70.1/28

Out: -3.414 $\pm$ 1.877 χ^2/NDF : 51.9/31

All: -4.869 $\pm$ 1.268 χ^2/NDF : 123.1/60

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547 ± 1.257 $\chi^2/\text{NDF}: 5588981.6/16$

Left Out: 23796.106 ± 6.128 $\chi^2/\text{NDF}: 1914597.0/12$

Right Out: 2773.446 ± 1.359 $\chi^2/\text{NDF}: 7835878.7/18$

Left In: 15366.599 ± 4.796 $\chi^2/\text{NDF}: 5261955.6/11$

Left: 18568.173 ± 3.777 $\chi^2/\text{NDF}: 8349963.6/24$

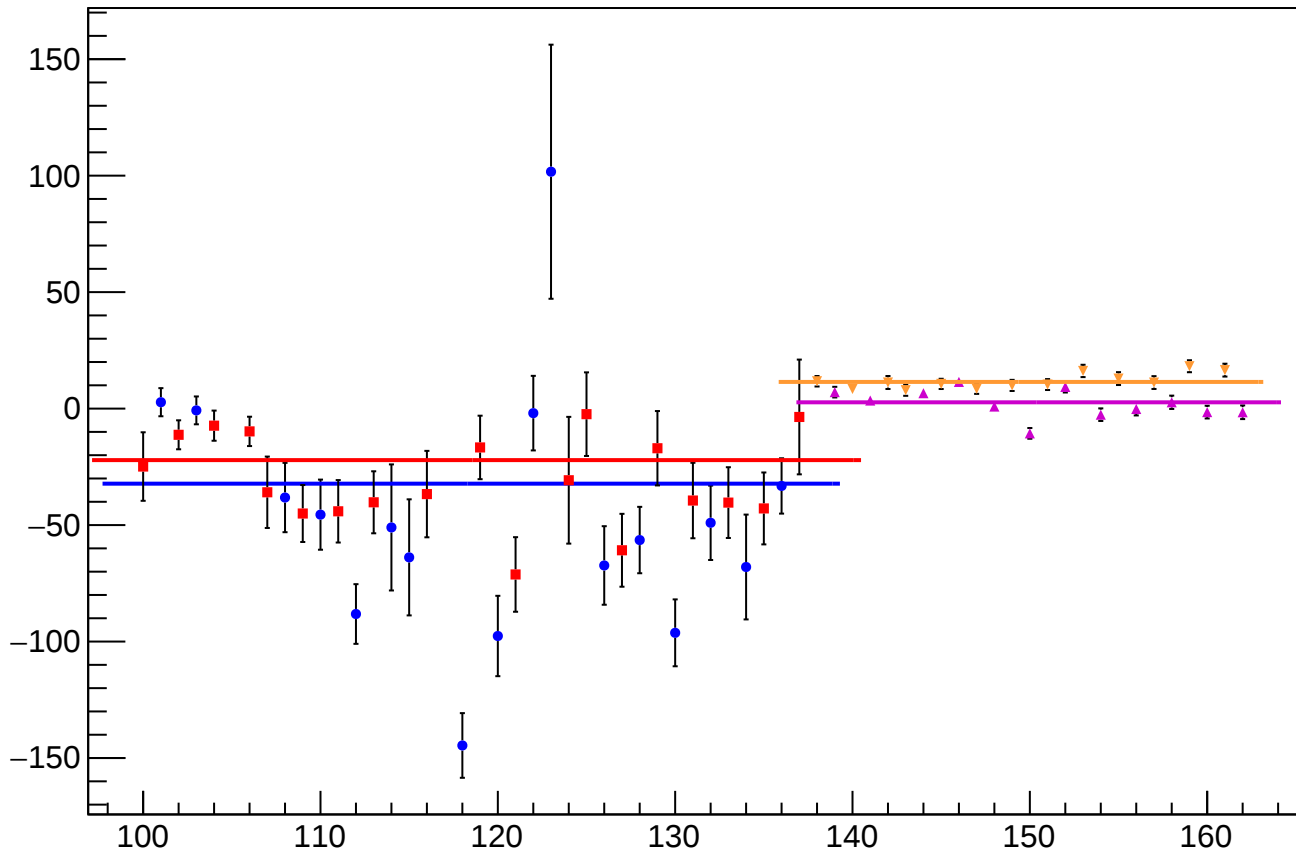
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3449.339 ± 1.216 $\chi^2/\text{NDF}: 17450205.4/28$

Out: 3759.122 ± 1.327 $\chi^2/\text{NDF}: 20966477.6/31$

All: 3590.734 ± 0.897 $\chi^2/\text{NDF}: 38446306.7/6$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.222 ± 2.981 χ^2/NDF : 203.7/16

Left Out: 11.452 ± 0.678 χ^2/NDF : 20.4/12

Right Out: -22.111 ± 2.669 χ^2/NDF : 43.7/18

Left In: 2.699 ± 0.691 χ^2/NDF : 76.0/11

Left: 7.163 ± 0.484 χ^2/NDF : 178.2/24

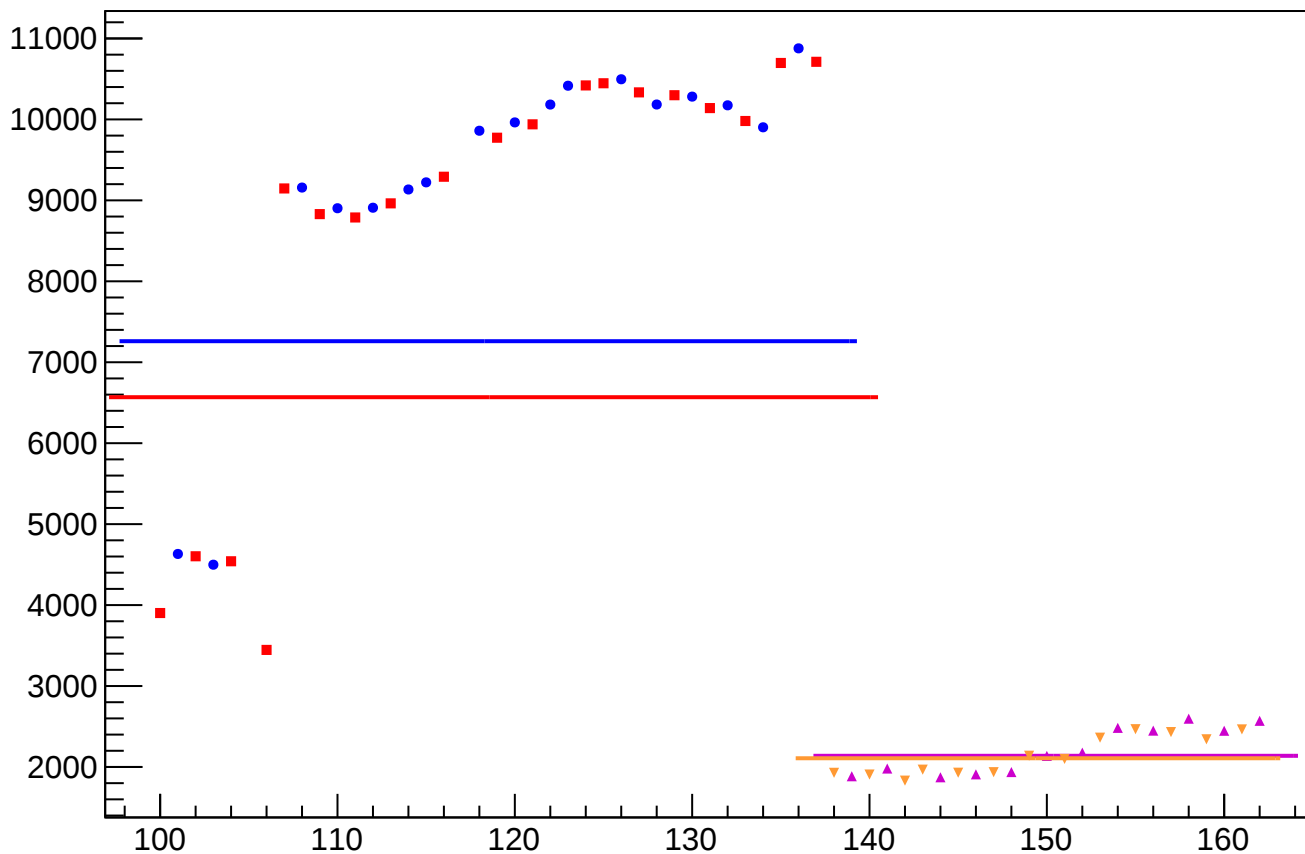
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 0.917 ± 0.674 χ^2/NDF : 409.9/28

Out: 9.419 ± 0.657 χ^2/NDF : 212.6/31

All: 5.275 ± 0.470 χ^2/NDF : 704.2/60

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081 $\pm$ 2.108 χ^2 /NDF: 1636373.2/16

Left Out: 2107.615 $\pm$ 0.479 χ^2 /NDF: 212563.4/12

Right Out: 6568.180 $\pm$ 1.887 χ^2 /NDF: 2196546.0/18

Left In: 2137.992 $\pm$ 0.489 χ^2 /NDF: 288931.3/11

Left: 2122.500 $\pm$ 0.342 χ^2 /NDF: 503463.8/24

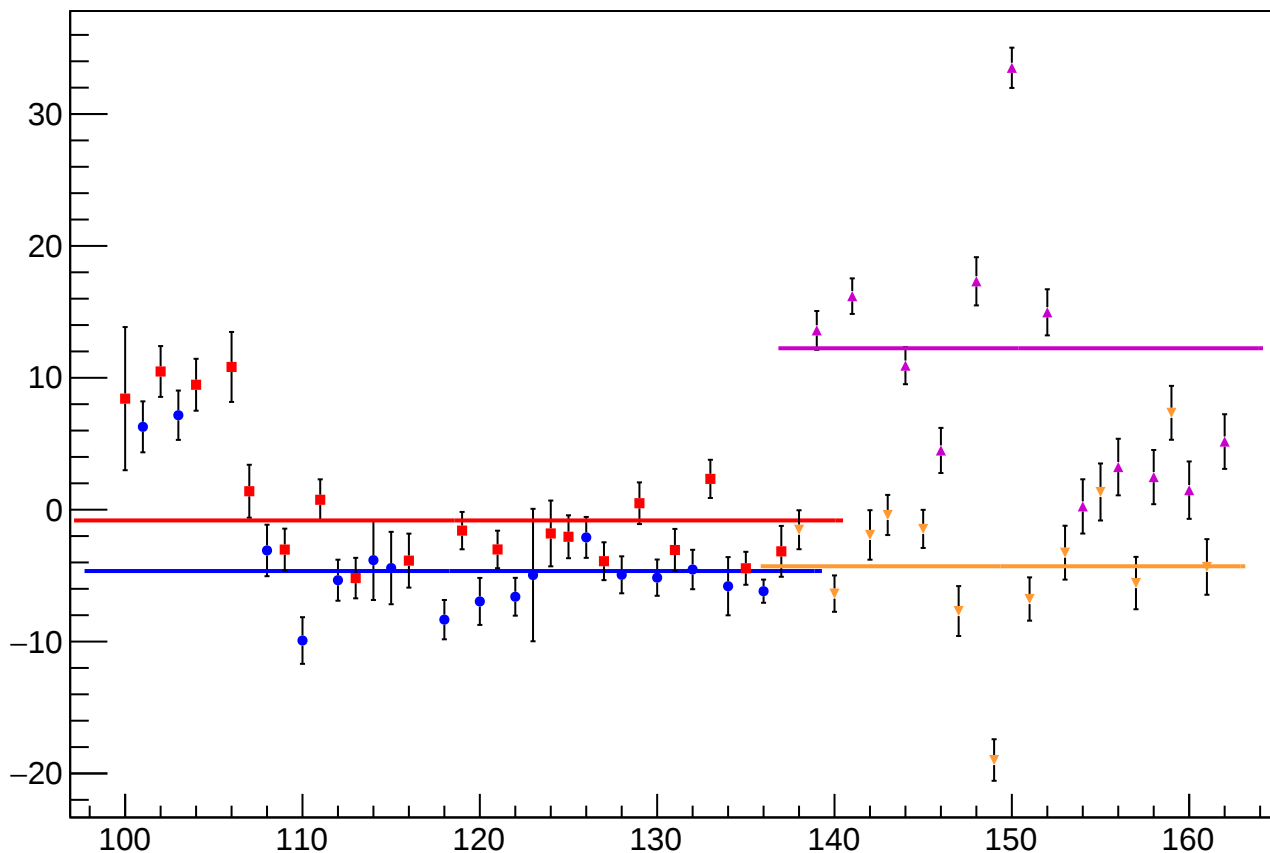
Right: 6876.033 $\pm$ 1.406 χ^2 /NDF: 3892707.9/35

In: 2399.380 $\pm$ 0.476 χ^2 /NDF: 7527212.6/28

Out: 2377.708 $\pm$ 0.464 χ^2 /NDF: 7655808.4/31

All: 2388.273 $\pm$ 0.333 χ^2 /NDF: 15184082.3/6

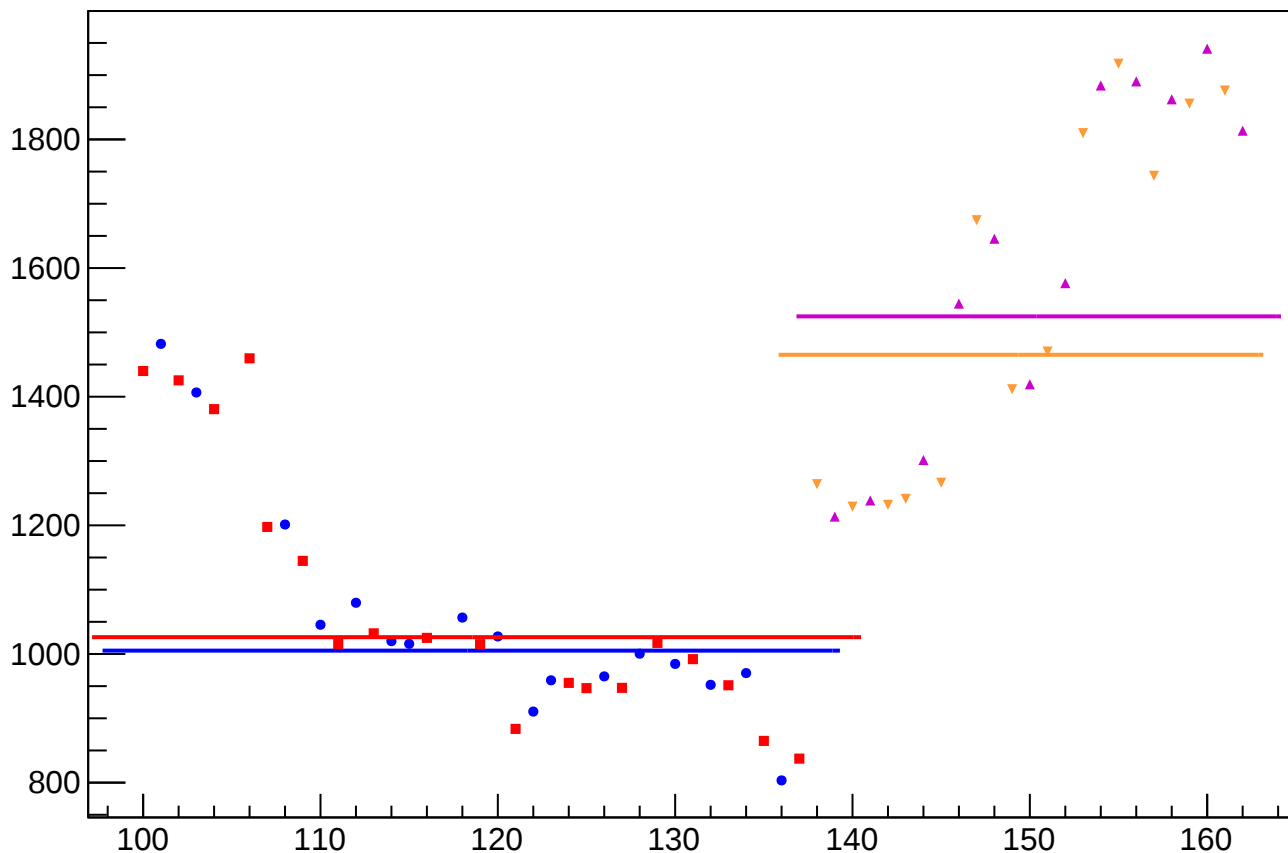
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -4.289 ± 0.476 $\chi^2/\text{NDF}: 150.1/12$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 12.240 ± 0.497 $\chi^2/\text{NDF}: 345.2/11$

Left: 3.626 ± 0.344 $\chi^2/\text{NDF}: 1071.5/24$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 1.839 ± 0.308 $\chi^2/\text{NDF}: 1153.8/28$
 Out: -2.202 ± 0.301 $\chi^2/\text{NDF}: 305.7/31$
 All: -0.228 ± 0.215 $\chi^2/\text{NDF}: 1547.5/60$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.227 +/- 0.278 χ^2/NDF : 361954.2/16

Left Out: 1465.179 +/- 0.337 χ^2/NDF : 567453.6/12

Right Out: 1026.158 +/- 0.275 χ^2/NDF : 333119.0/18

Left In: 1524.890 +/- 0.351 χ^2/NDF : 535152.6/11

Left: 1493.774 +/- 0.243 χ^2/NDF : 1117646.5/24

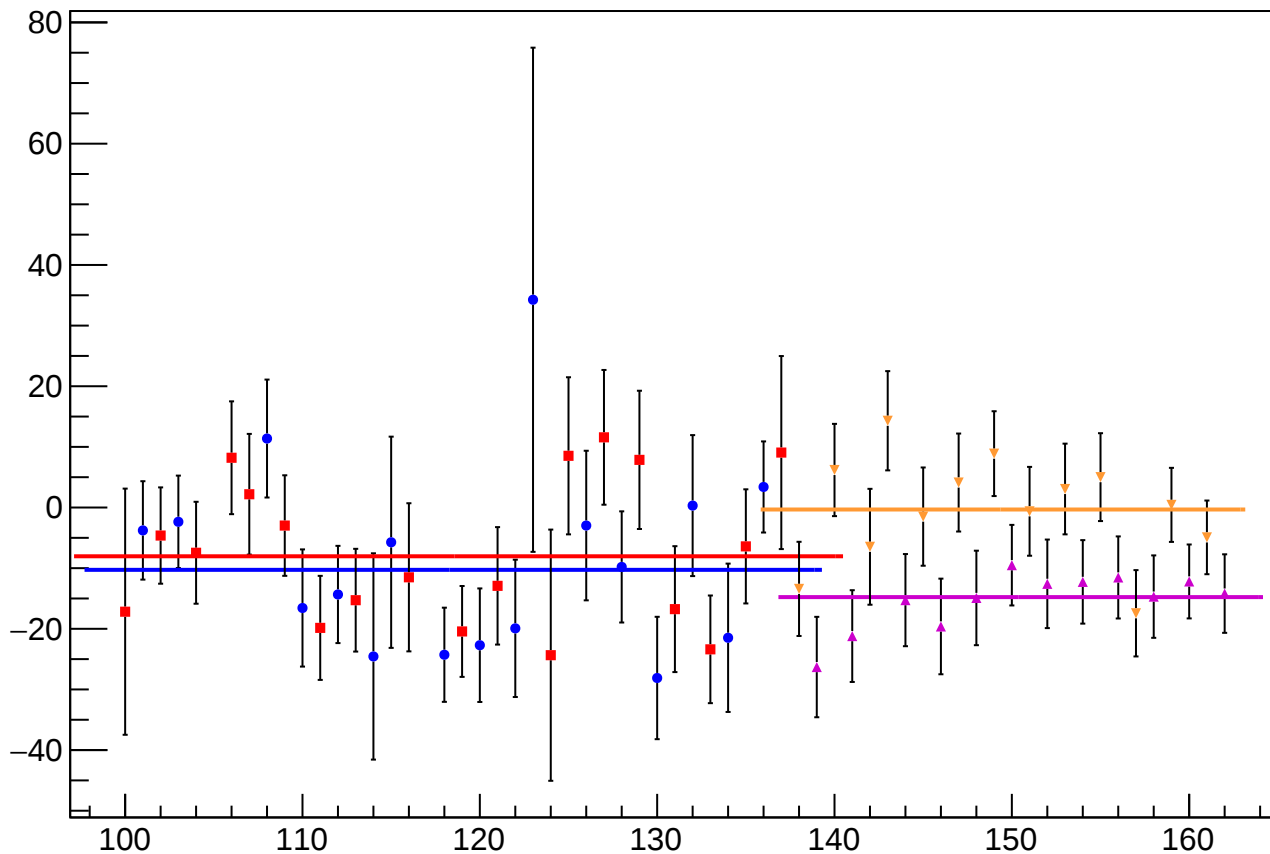
Right: 1015.803 +/- 0.195 χ^2/NDF : 697945.4/35

In: 1204.893 +/- 0.218 χ^2/NDF : 2243263.5/28

Out: 1201.466 +/- 0.213 χ^2/NDF : 1920420.1/31

All: 1203.140 +/- 0.152 χ^2/NDF : 4163810.2/60

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 $\pm$ 2.408 χ^2/NDF : 23.5/16

Left Out: -0.327 $\pm$ 2.041 χ^2/NDF : 16.4/12

Right Out: -8.041 $\pm$ 2.278 χ^2/NDF : 22.8/18

Left In: -14.773 $\pm$ 2.047 χ^2/NDF : 4.3/11

Left: -7.531 $\pm$ 1.445 χ^2/NDF : 45.7/24

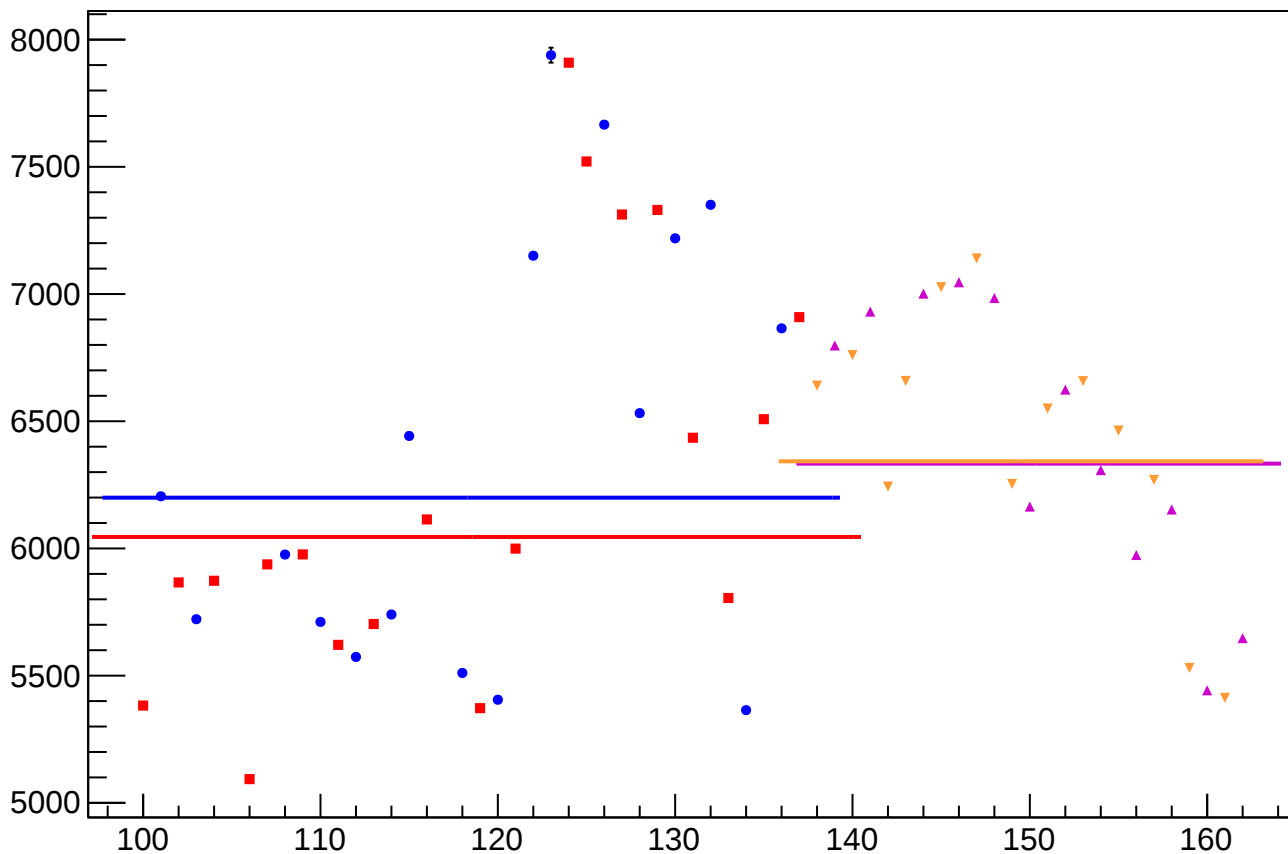
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

In: -12.887 $\pm$ 1.559 χ^2/NDF : 29.8/28

Out: -3.762 $\pm$ 1.520 χ^2/NDF : 45.5/31

All: -8.209 $\pm$ 1.089 χ^2/NDF : 92.9/60

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6199.617 $\pm$ 1.703 χ^2/NDF : 171760.4/16

Left Out: 6342.460 $\pm$ 1.443 χ^2/NDF : 134413.2/12

Right Out: 6045.172 $\pm$ 1.611 χ^2/NDF : 158323.0/18

Left In: 6333.387 $\pm$ 1.447 χ^2/NDF : 141278.3/11

Left: 6337.935 $\pm$ 1.022 χ^2/NDF : 275711.1/24

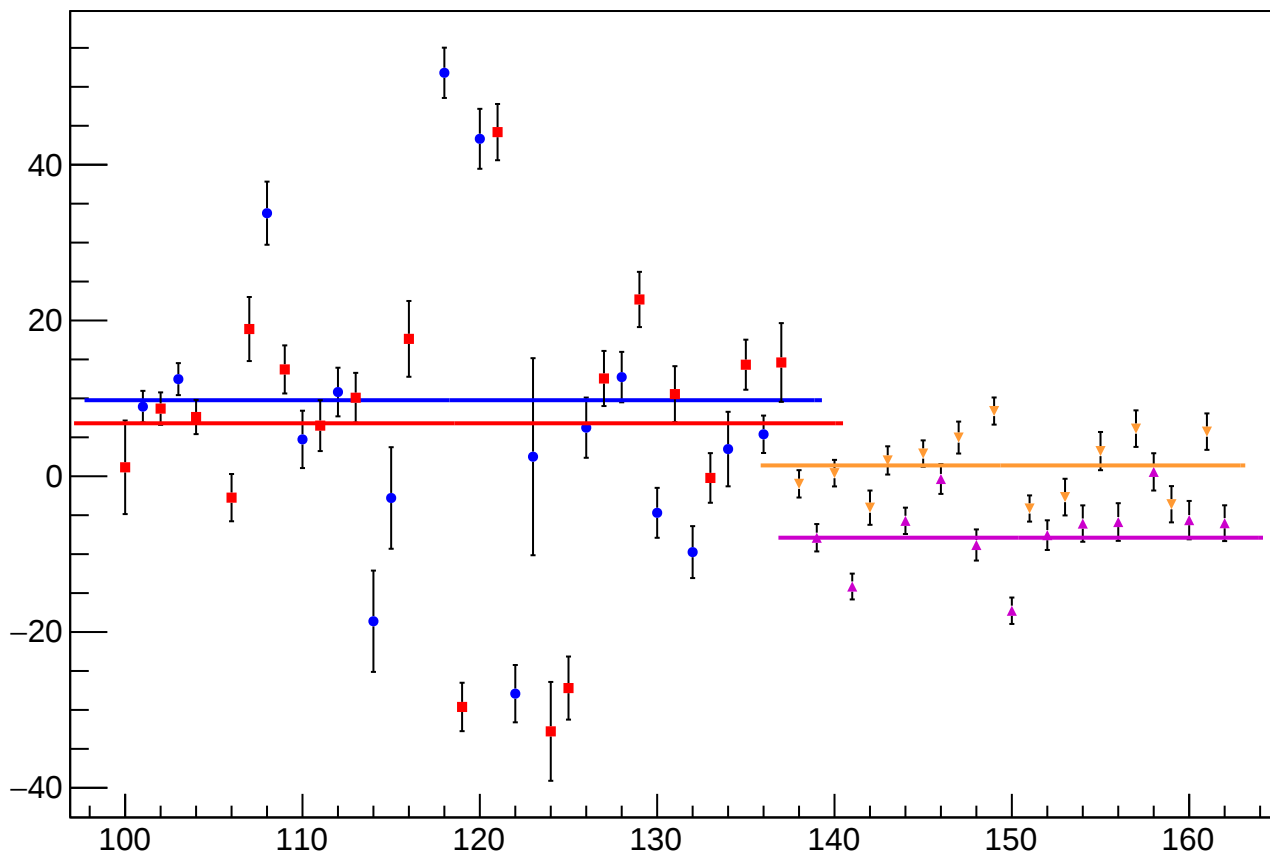
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6277.274 $\pm$ 1.103 χ^2/NDF : 316622.3/28

Out: 6210.079 $\pm$ 1.075 χ^2/NDF : 311623.9/31

All: 6242.825 $\pm$ 0.770 χ^2/NDF : 630149.9/60

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 $\pm$ 0.797 χ^2/NDF : 473.8/16

Left Out: 1.392 $\pm$ 0.547 χ^2/NDF : 54.7/12

Right Out: 6.801 $\pm$ 0.765 χ^2/NDF : 421.8/18

Left In: -7.889 $\pm$ 0.571 χ^2/NDF : 77.5/11

Left: -3.046 $\pm$ 0.395 χ^2/NDF : 270.0/24

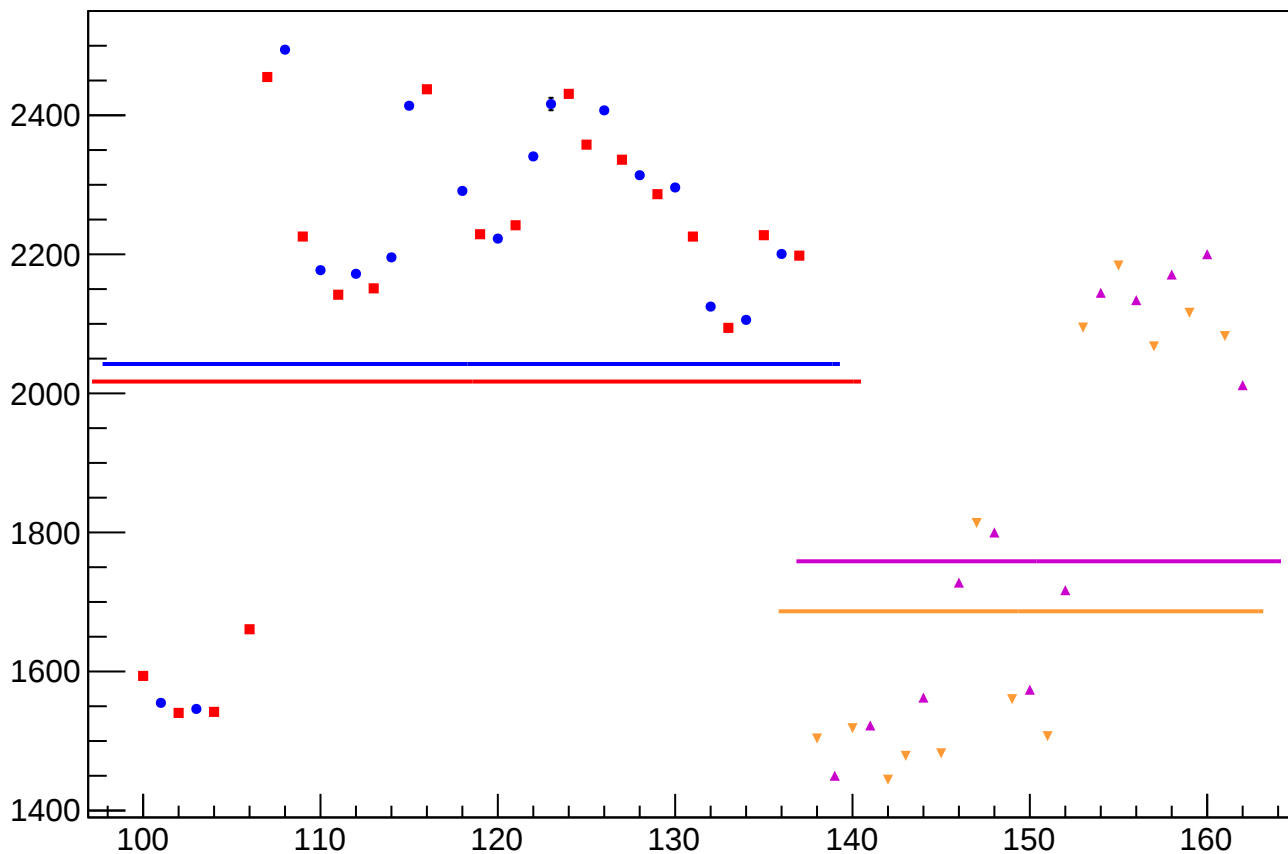
Right: 8.222 $\pm$ 0.552 χ^2/NDF : 902.8/35

In: -1.897 $\pm$ 0.464 χ^2/NDF : 875.5/28

Out: 3.221 $\pm$ 0.445 χ^2/NDF : 509.6/31

All: 0.772 $\pm$ 0.321 χ^2/NDF : 1448.5/60

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269+/-0.563 χ^2/NDF : 356820.1/16

Left Out: 1686.611+/-0.387 χ^2/NDF : 482227.7/12

Right Out: 2017.026+/-0.541 χ^2/NDF : 375630.3/18

Left In: 1758.513+/-0.404 χ^2/NDF : 405939.8/11

Left: 1720.993+/-0.279 χ^2/NDF : 904706.2/24

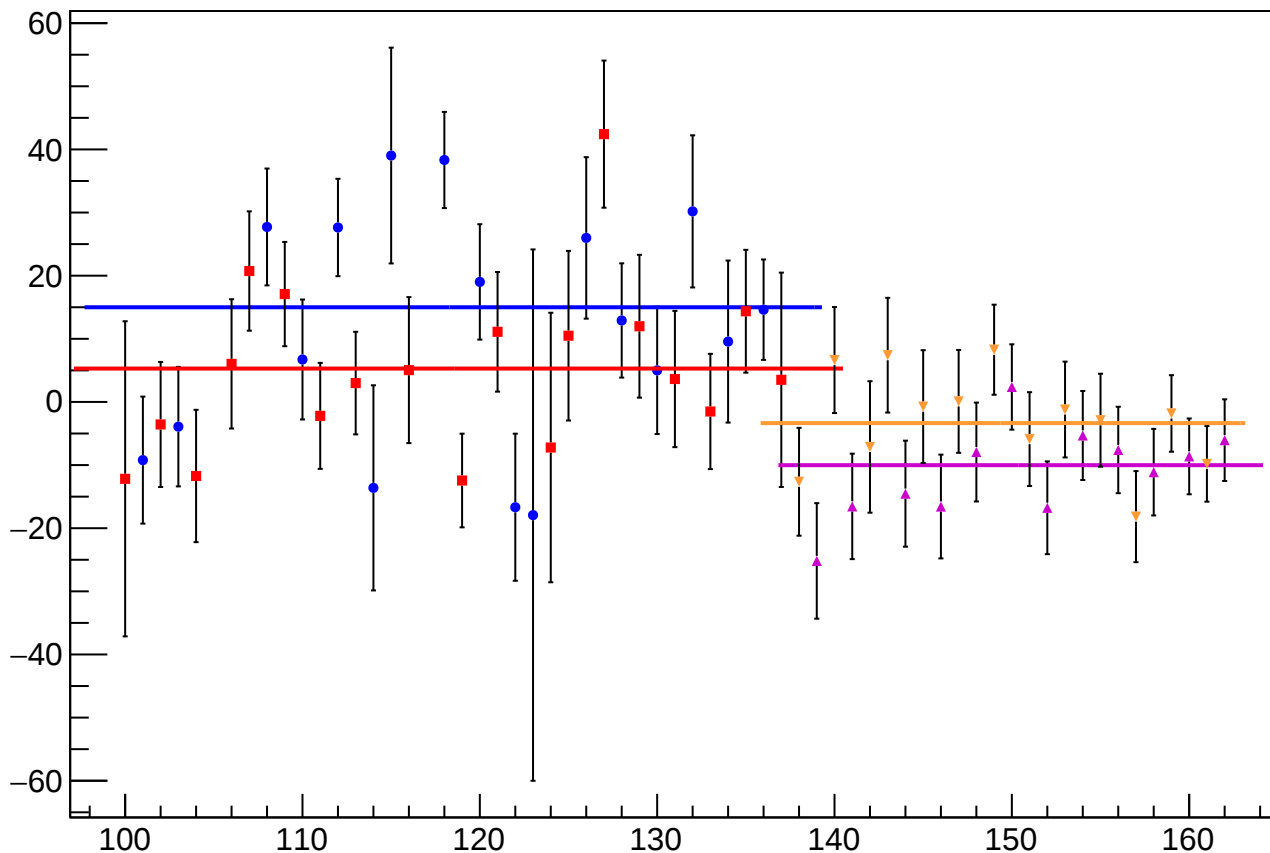
Right: 2029.129+/-0.390 χ^2/NDF : 733495.1/35

In: 1854.822+/-0.328 χ^2/NDF : 930294.7/28

Out: 1798.375+/-0.315 χ^2/NDF : 1104911.0/31

All: 1825.391+/-0.227 χ^2/NDF : 2050623.1/60

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 $\pm$ 2.485 χ^2 /NDF: 41.3/16

Left Out: -3.353 $\pm$ 2.110 χ^2 /NDF:12.7/12

Right Out: 5.291 $\pm$ 2.357 χ^2 /NDF: 28.1/18

Left In: -10.017 $\pm$ 2.102 χ^2 /NDF:9.6/11

Left: -6.697 $\pm$ 1.489 χ^2 /NDF: 27.3/24

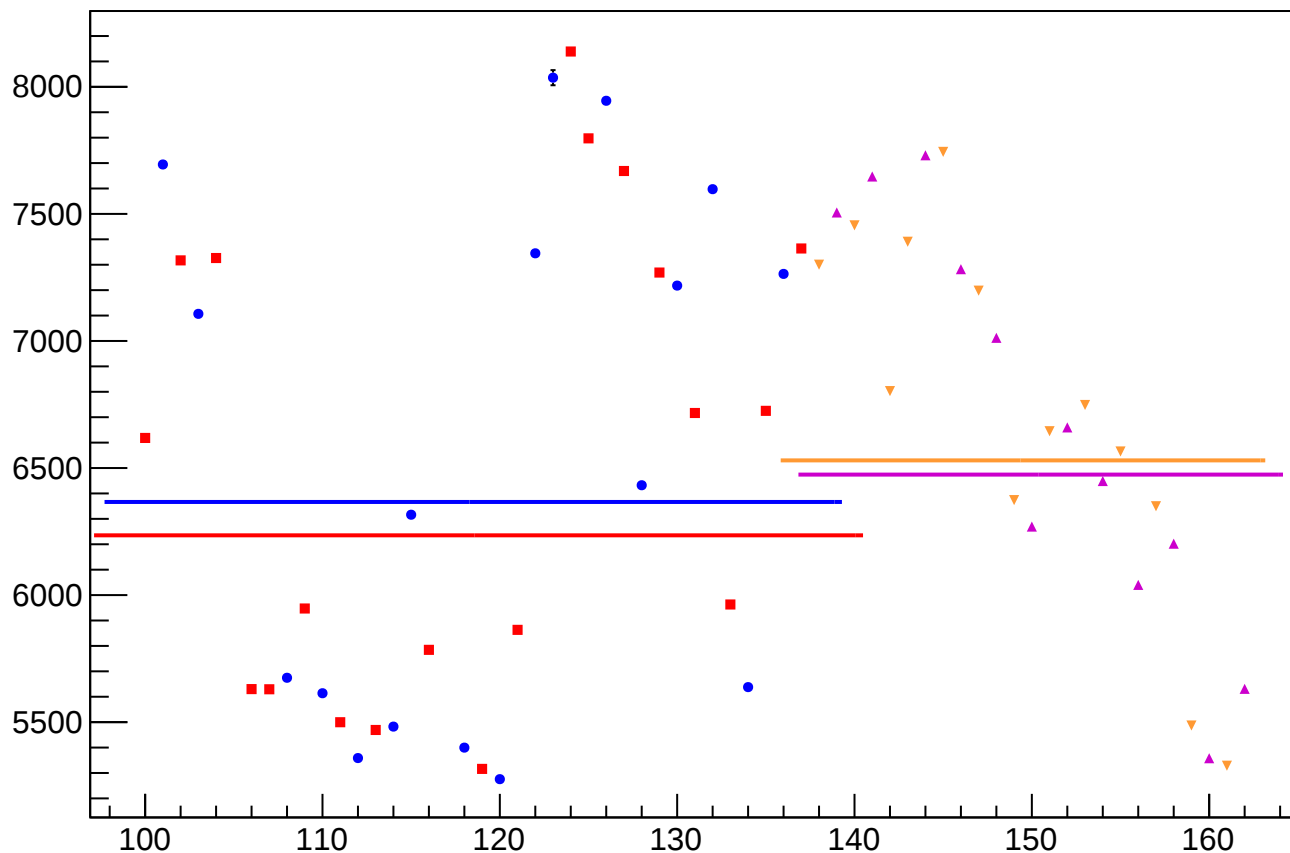
Right: 9.888 $\pm$ 1.710 χ^2 /NDF: 77.4/35

In: 0.413 $\pm$ 1.605 χ^2 /NDF:109.9/28

Out: 0.491 $\pm$ 1.572 χ^2 /NDF:48.2/31

All: 0.453 $\pm$ 1.123 χ^2 /NDF: 158.2/60

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 $\pm$ 1.757 χ^2 /NDF: 286494.5/16

Left Out: 6530.077 $\pm$ 1.492 χ^2 /NDF: 254244.7/12

Right Out: 6235.179 $\pm$ 1.667 χ^2 /NDF: 243204.0/18

Left In: 6474.162 $\pm$ 1.486 χ^2 /NDF: 255893.2/11

Left: 6502.014 $\pm$ 1.053 χ^2 /NDF: 510842.9/24

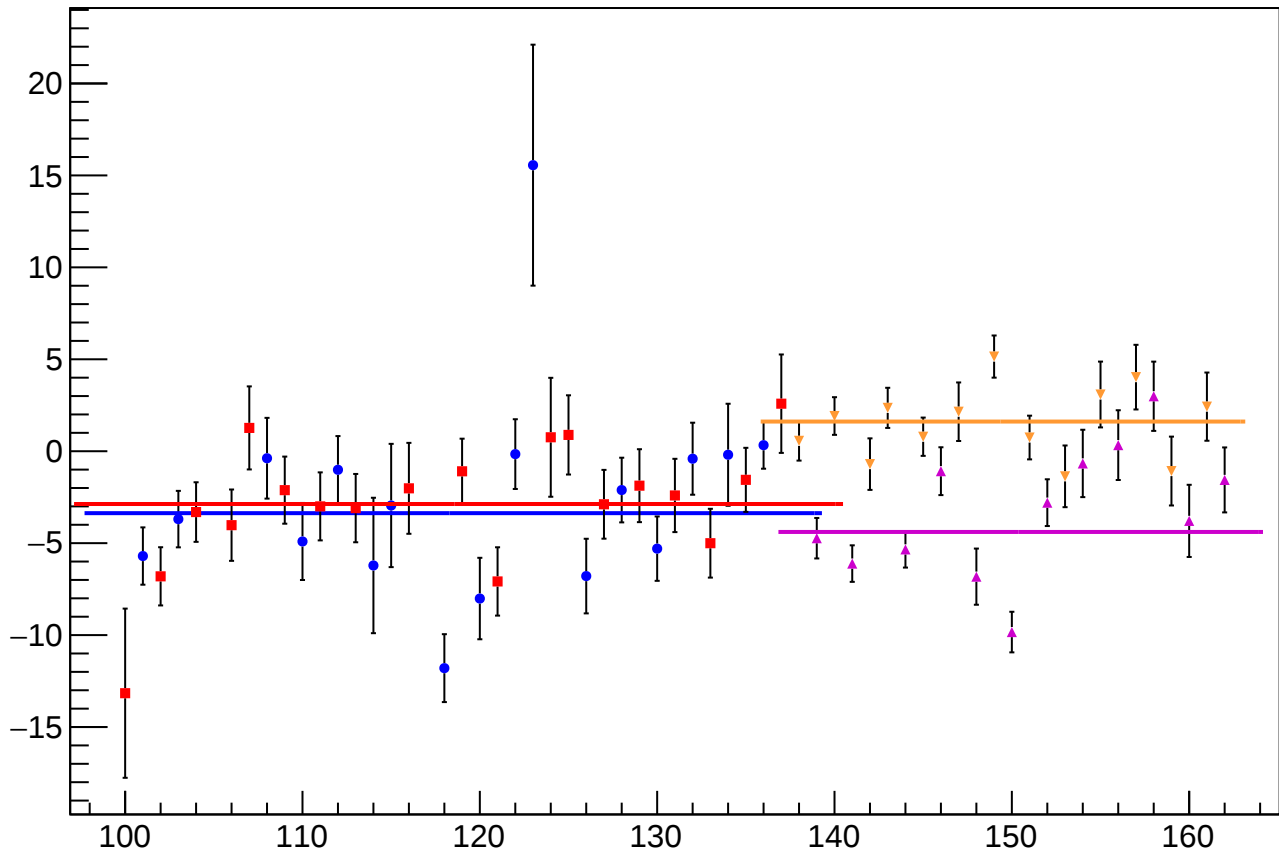
Right: 6297.369 $\pm$ 1.209 χ^2 /NDF: 532637.5/35

In: 6429.265 $\pm$ 1.135 χ^2 /NDF: 544576.2/28

Out: 6398.923 $\pm$ 1.112 χ^2 /NDF: 514826.9/31

All: 6413.781 $\pm$ 0.794 χ^2 /NDF: 1059767.9/60

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 ± 0.476 χ^2/NDF : 59.9/16

Left Out: 1.614 ± 0.365 χ^2/NDF : 23.0/12

Right Out: -2.871 ± 0.456 χ^2/NDF : 32.0/18

Left In: -4.390 ± 0.385 χ^2/NDF : 67.3/11

Left: -1.228 ± 0.265 χ^2/NDF : 218.5/24

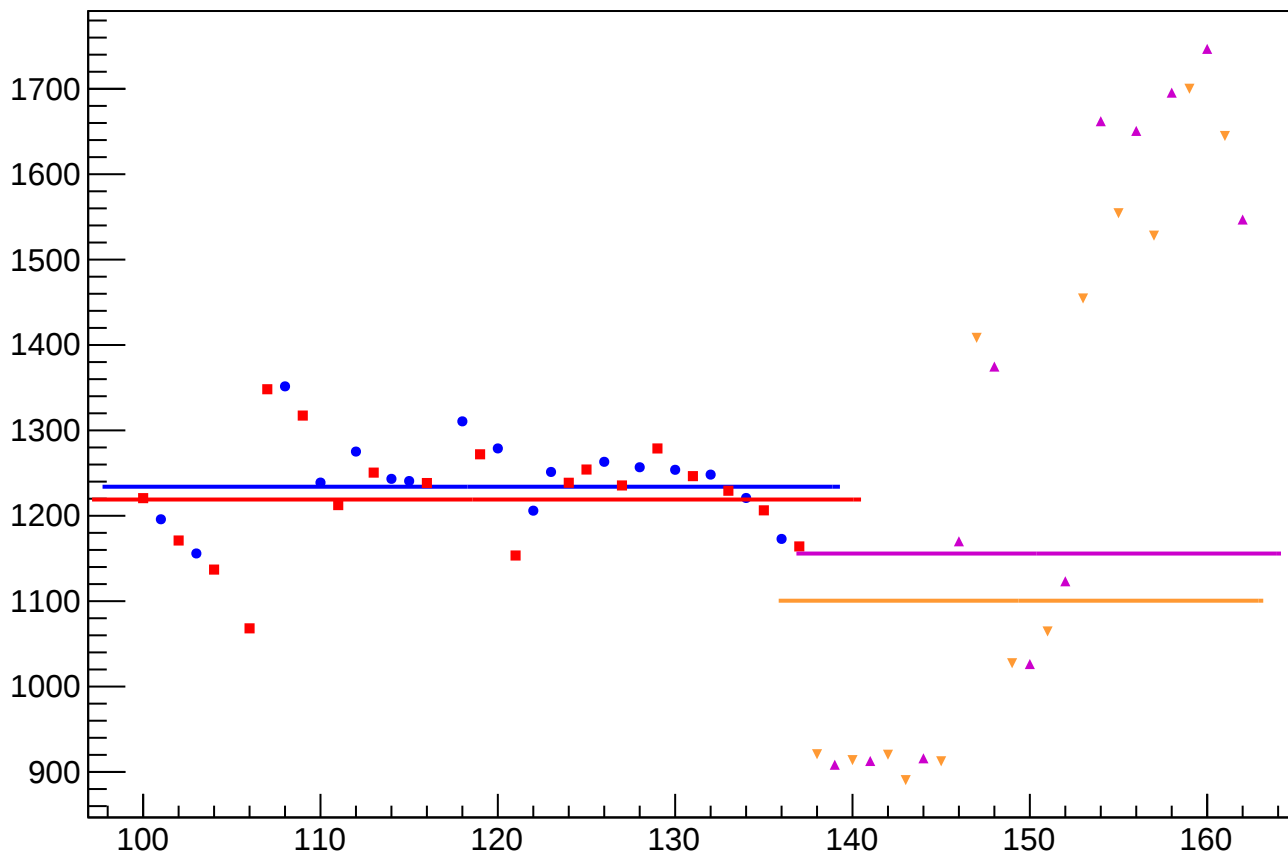
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -3.986 ± 0.299 χ^2/NDF : 129.9/28

Out: -0.134 ± 0.285 χ^2/NDF : 113.9/31

All: -1.966 ± 0.206 χ^2/NDF : 330.9/60

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 $\pm$ 0.336 χ^2 /NDF: 23565.3/16

Left Out: 1100.549 $\pm$ 0.258 χ^2 /NDF:1092892.6/12

Right Out: 1219.041 $\pm$ 0.323 χ^2 /NDF: 40370.4/18

Left In: 1155.774 $\pm$ 0.272 χ^2 /NDF:1140915.4/11

Left: 1126.688 $\pm$ 0.187 χ^2 /NDF: 2255517.8/24

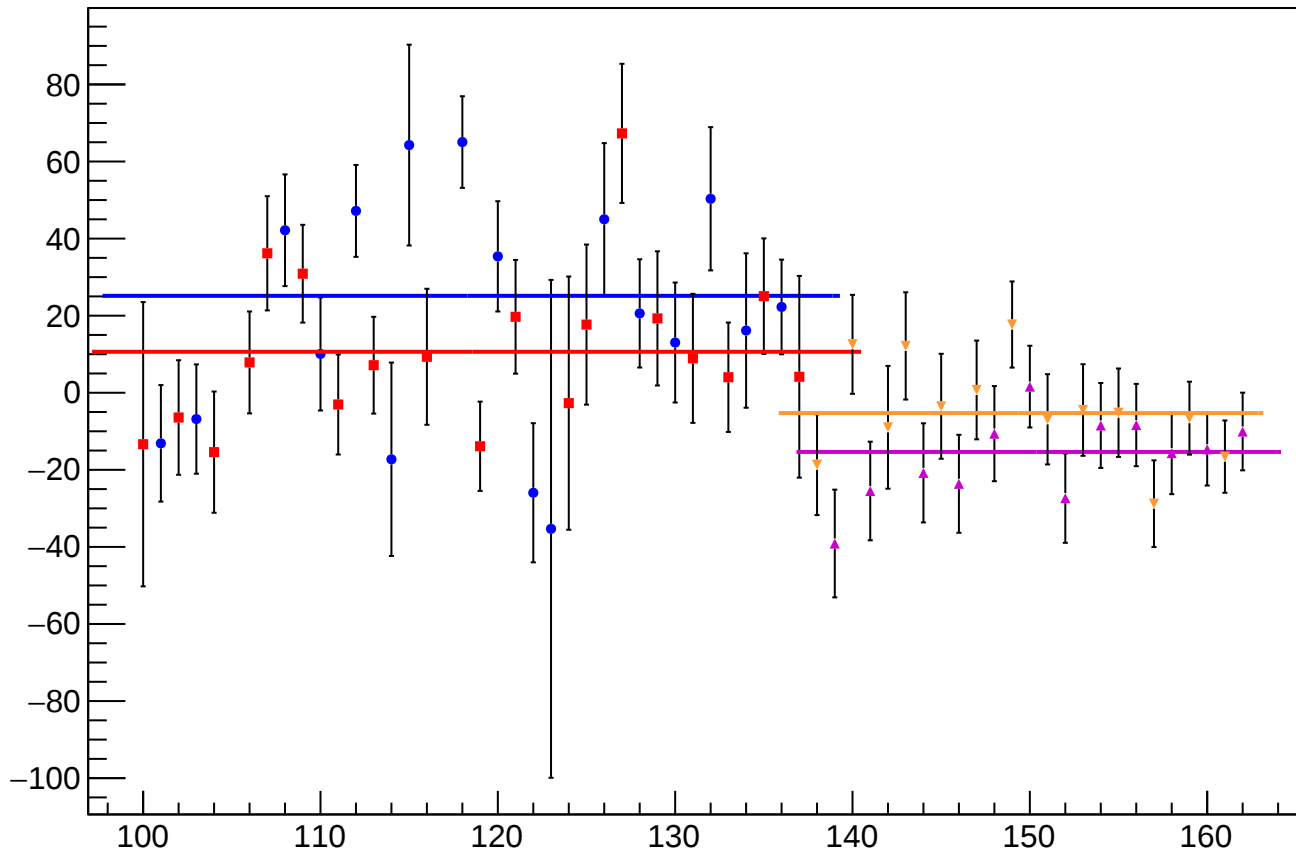
Right: 1226.229 $\pm$ 0.233 χ^2 /NDF: 64970.2/35

In: 1186.728 $\pm$ 0.211 χ^2 /NDF:1197222.8/28

Out: 1146.720 $\pm$ 0.201 χ^2 /NDF:1215542.1/31

All: 1165.754 $\pm$ 0.146 χ^2 /NDF: 2431529.3/60

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149+/-3.837 χ^2/NDF : 46.9/16

Left Out: -5.265+/-3.281 χ^2/NDF : 14.9/12

Right Out: 10.634+/-3.595 χ^2/NDF : 27.7/18

Left In: -15.354+/-3.273 χ^2/NDF : 9.0/11

Left: -10.320+/-2.317 χ^2/NDF : 28.7/24

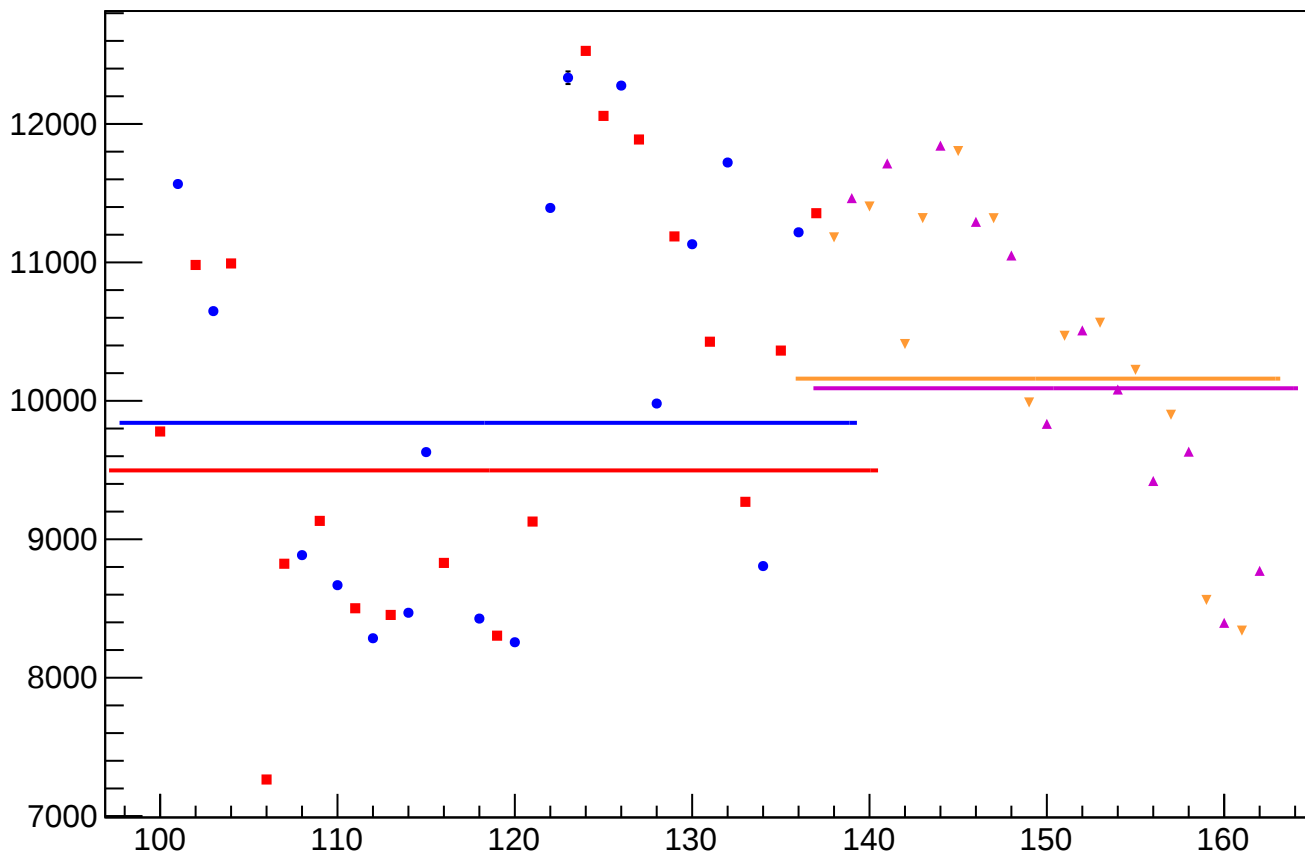
Right: 17.418+/-2.623 χ^2/NDF : 82.3/35

In: 1.706+/-2.490 χ^2/NDF : 120.4/28

Out: 1.960+/-2.423 χ^2/NDF : 53.3/31

All: 1.836+/-1.737 χ^2/NDF : 173.7/60

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9841.174 ± 2.713 $\chi^2/\text{NDF}: 260062.4/16$

Left Out: 10160.436 ± 2.320 $\chi^2/\text{NDF}: 228501.9/12$

Right Out: 9497.483 ± 2.542 $\chi^2/\text{NDF}: 276700.1/18$

Left In: 10090.869 ± 2.315 $\chi^2/\text{NDF}: 233111.3/11$

Left: 10125.577 ± 1.639 $\chi^2/\text{NDF}: 462063.8/24$

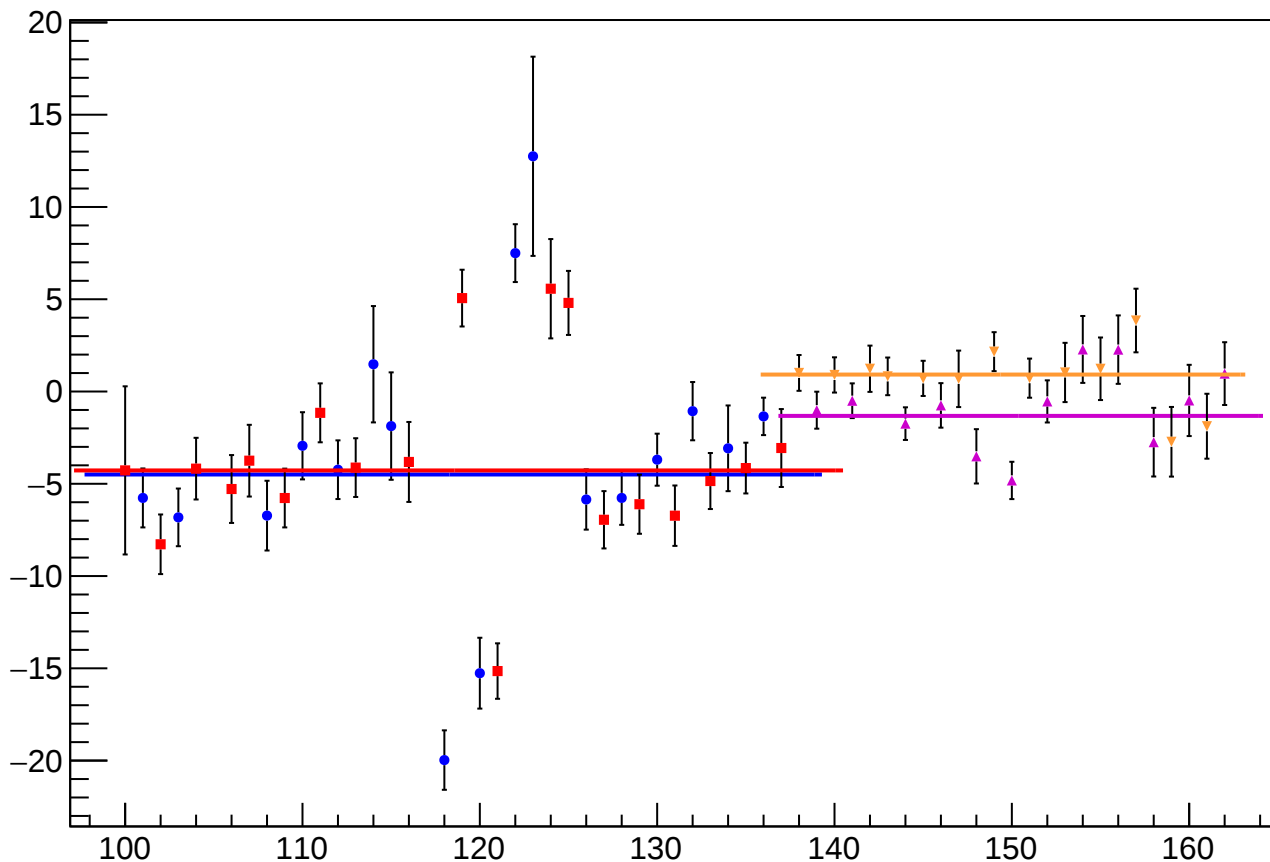
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9985.699 ± 1.761 $\chi^2/\text{NDF}: 498074.9/28$

Out: 9859.177 ± 1.713 $\chi^2/\text{NDF}: 542315.9/31$

All: 9920.706 ± 1.228 $\chi^2/\text{NDF}: 1043042.4/60$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.497 ± 0.408 χ^2/NDF : 218.4/16

Left Out: 0.919 ± 0.338 χ^2/NDF : 10.7/12

Right Out: -4.277 ± 0.394 χ^2/NDF : 148.2/18

Left In: -1.321 ± 0.358 χ^2/NDF : 26.3/11

Left: -0.137 ± 0.246 χ^2/NDF : 57.7/24

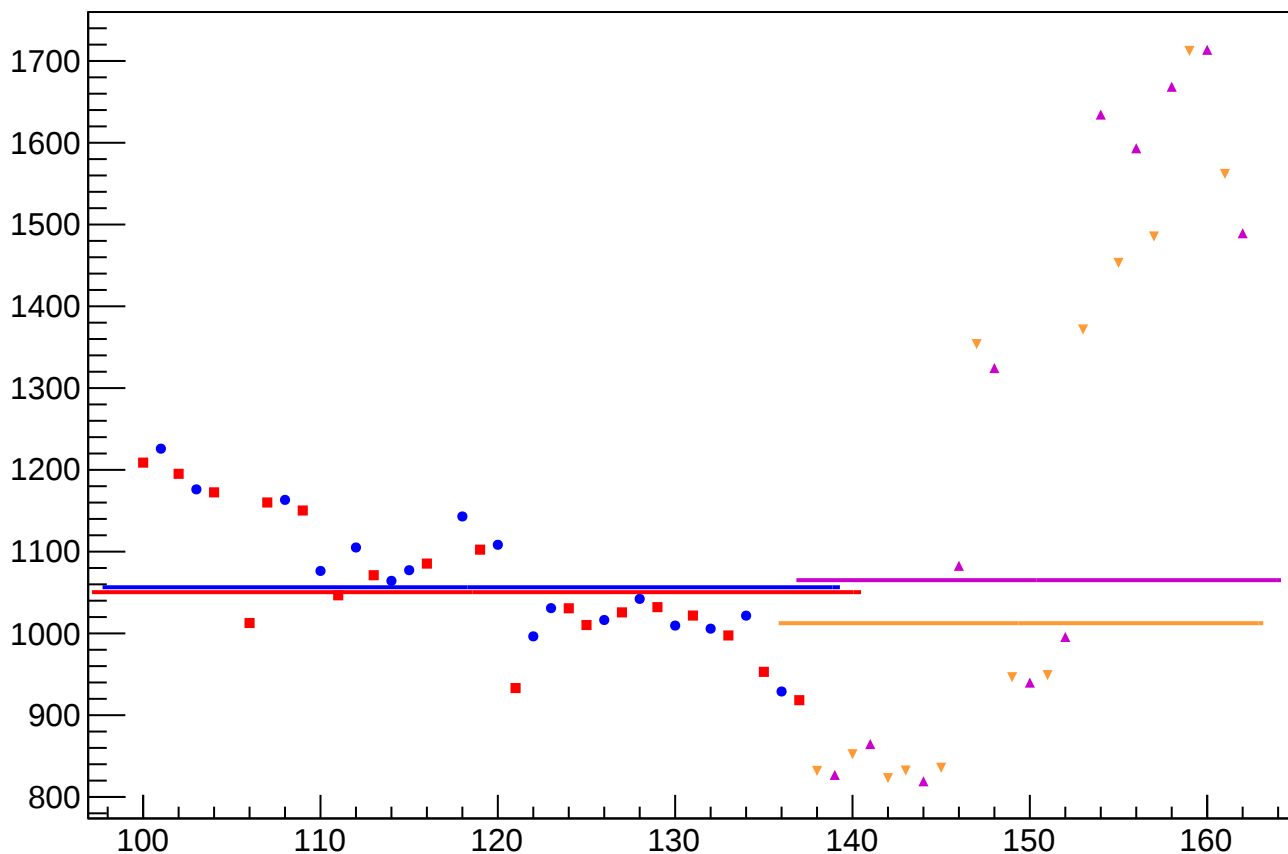
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.702 ± 0.269 χ^2/NDF : 278.9/28

Out: -1.285 ± 0.257 χ^2/NDF : 259.2/31

All: -1.960 ± 0.186 χ^2/NDF : 552.5/60

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.436 $\pm$ 0.289 χ^2/NDF : 90773.0/16

Left Out: 1012.497 $\pm$ 0.239 χ^2/NDF :1272772.0/12

Right Out: 1050.443 $\pm$ 0.279 χ^2/NDF : 82396.5/18

Left In: 1065.105 $\pm$ 0.253 χ^2/NDF :1379213.7/11

Left: 1037.292 $\pm$ 0.174 χ^2/NDF : 2674802.9/24

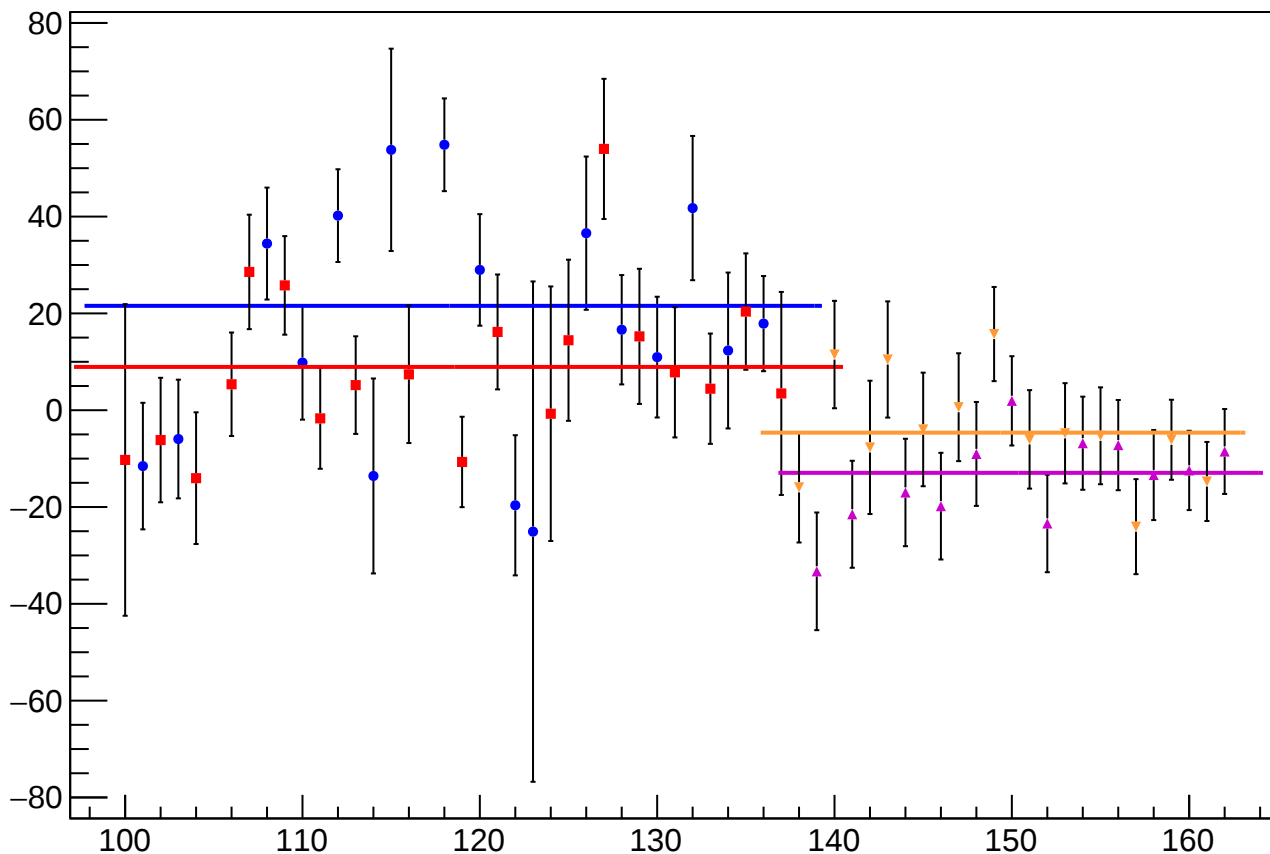
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

In: 1061.334 $\pm$ 0.190 χ^2/NDF :1470496.5/28

Out: 1028.596 $\pm$ 0.181 χ^2/NDF :1365854.6/31

All: 1044.179 $\pm$ 0.131 χ^2/NDF : 2851851.1/60

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561+/-3.110 χ^2/NDF : 48.4/16

Left Out: -4.638+/-2.853 χ^2/NDF : 14.8/12

Right Out: 8.943+/-2.912 χ^2/NDF : 27.4/18

Left In: -12.940+/-2.847 χ^2/NDF : 8.8/11

Left: -8.796+/-2.015 χ^2/NDF : 27.9/24

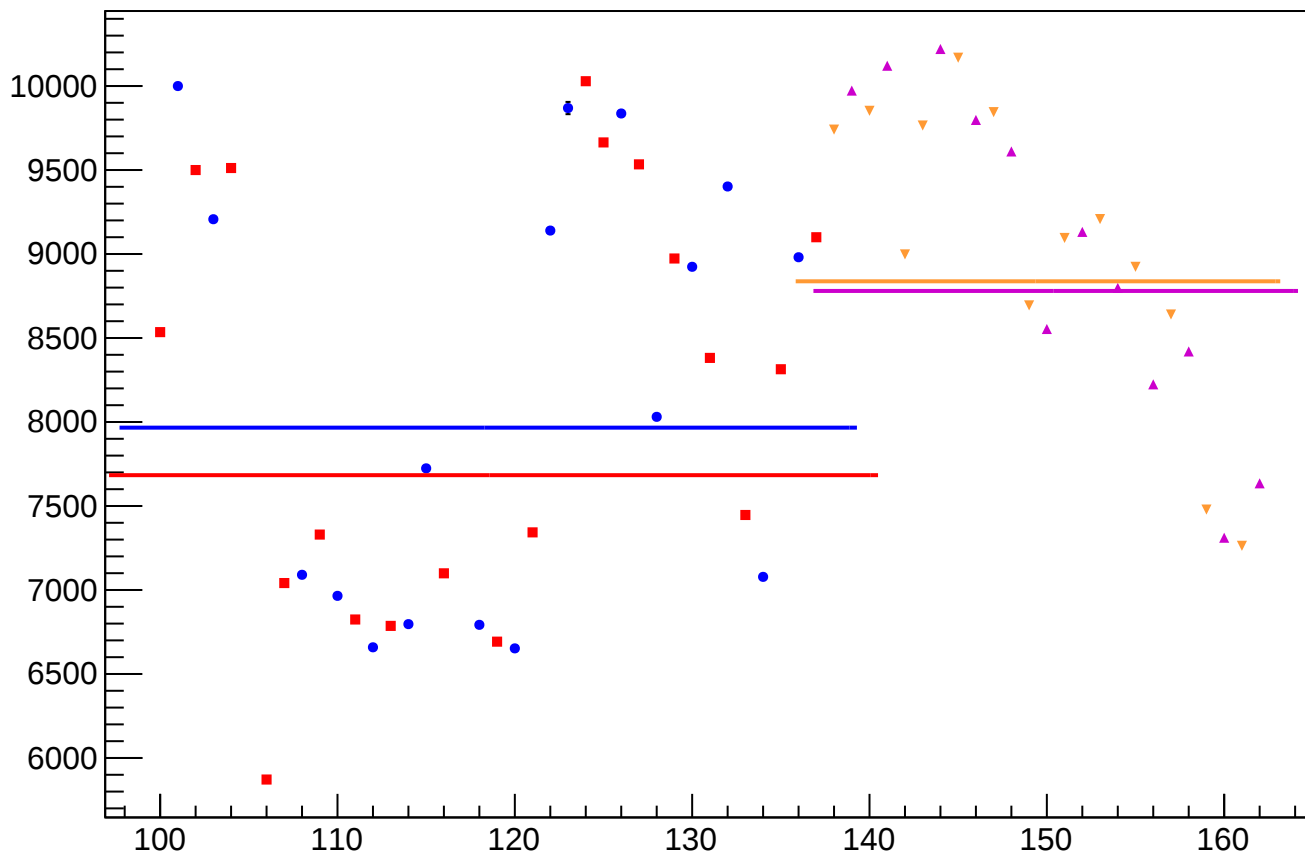
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 2.790+/-2.100 χ^2/NDF : 124.1/28

Out: 2.013+/-2.038 χ^2/NDF : 53.4/31

All: 2.390+/-1.462 χ^2/NDF : 177.6/60

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 $\pm$ 2.199 χ^2 /NDF: 296611.1/16

Left Out: 8837.516 $\pm$ 2.017 χ^2 /NDF: 217189.9/12

Right Out: 7683.479 $\pm$ 2.059 χ^2 /NDF: 315033.7/18

Left In: 8780.128 $\pm$ 2.013 χ^2 /NDF: 223564.6/11

Left: 8808.769 $\pm$ 1.425 χ^2 /NDF: 441160.0/24

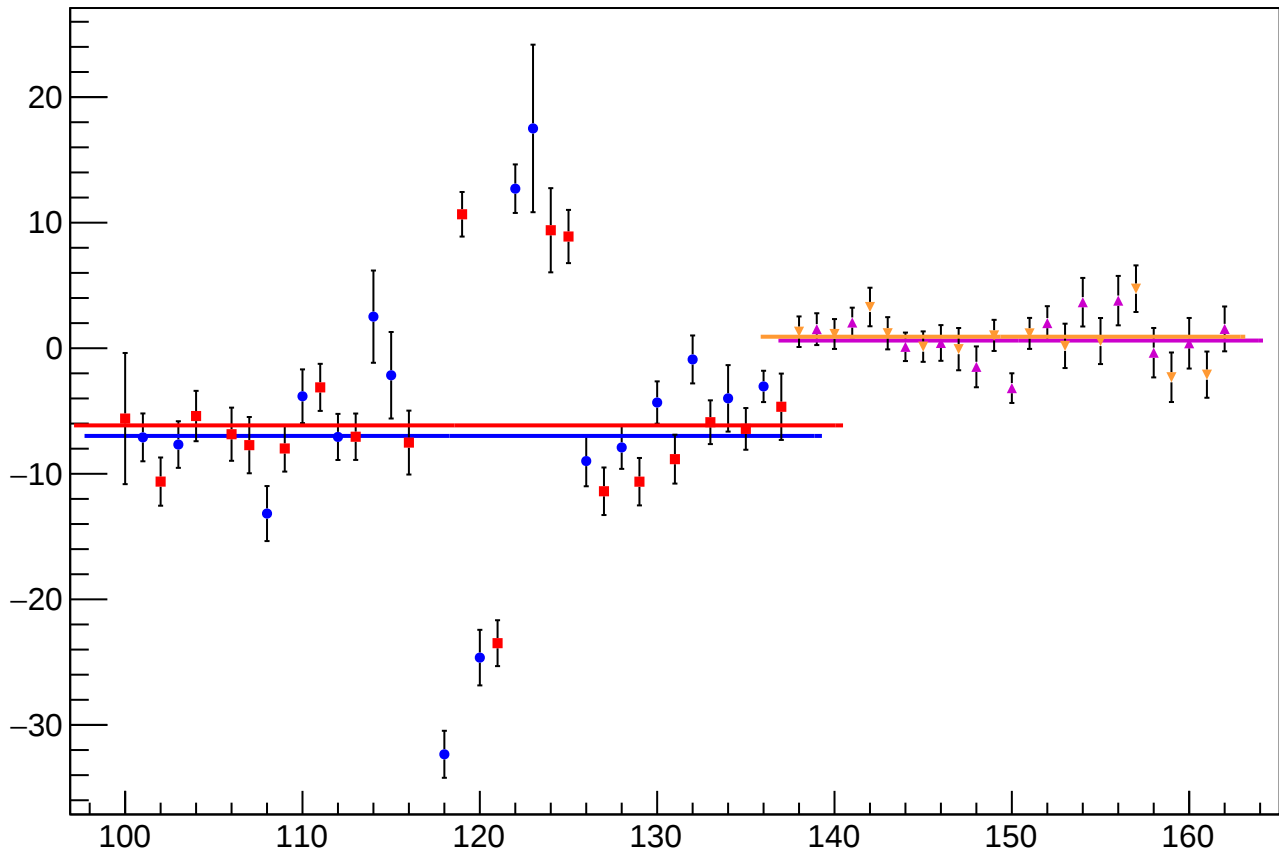
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8409.128 $\pm$ 1.485 χ^2 /NDF: 594652.2/28

Out: 8272.374 $\pm$ 1.441 χ^2 /NDF: 692527.7/31

All: 8338.686 $\pm$ 1.034 χ^2 /NDF: 1291547.9/60

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 $\pm$ 0.486 χ^2/NDF : 408.5/16

Left Out: 0.918 $\pm$ 0.401 χ^2/NDF :13.2/12

Right Out: -6.145 $\pm$ 0.467 χ^2/NDF : 277.5/18

Left In: 0.612 $\pm$ 0.422 χ^2/NDF :20.8/11

Left: 0.773 $\pm$ 0.291 χ^2/NDF : 34.3/24

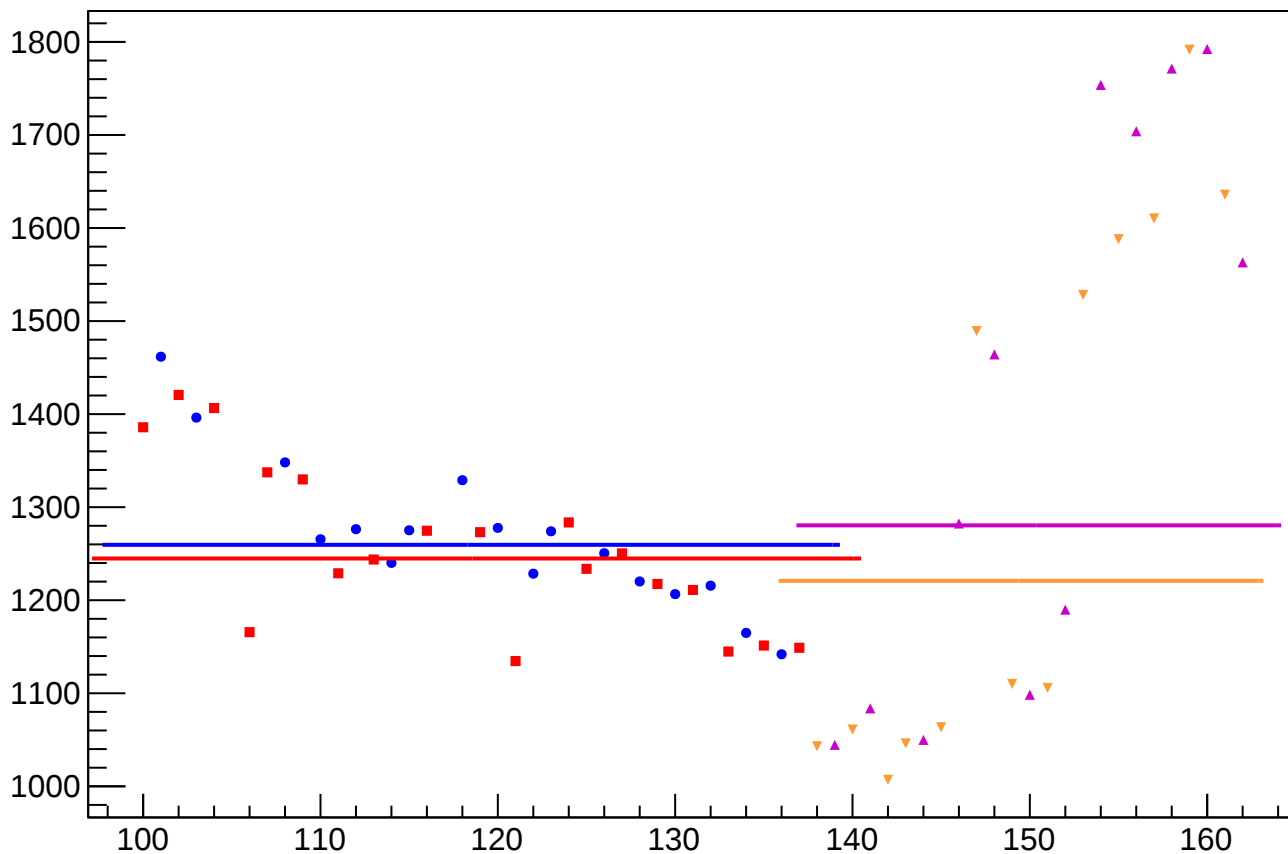
Right: -6.547 $\pm$ 0.337 χ^2/NDF : 687.6/35

In: -2.656 $\pm$ 0.319 χ^2/NDF :568.4/28

Out: -2.084 $\pm$ 0.304 χ^2/NDF :422.4/31

All: -2.356 $\pm$ 0.220 χ^2/NDF : 992.6/60

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.531 $\pm$ 0.344 χ^2 /NDF: 64844.4/16

Left Out: 1220.831 $\pm$ 0.284 χ^2 /NDF: 770401.3/12

Right Out: 1244.837 $\pm$ 0.330 χ^2 /NDF: 66826.0/18

Left In: 1280.455 $\pm$ 0.299 χ^2 /NDF: 805639.3/11

Left: 1249.101 $\pm$ 0.206 χ^2 /NDF: 1596988.2/24

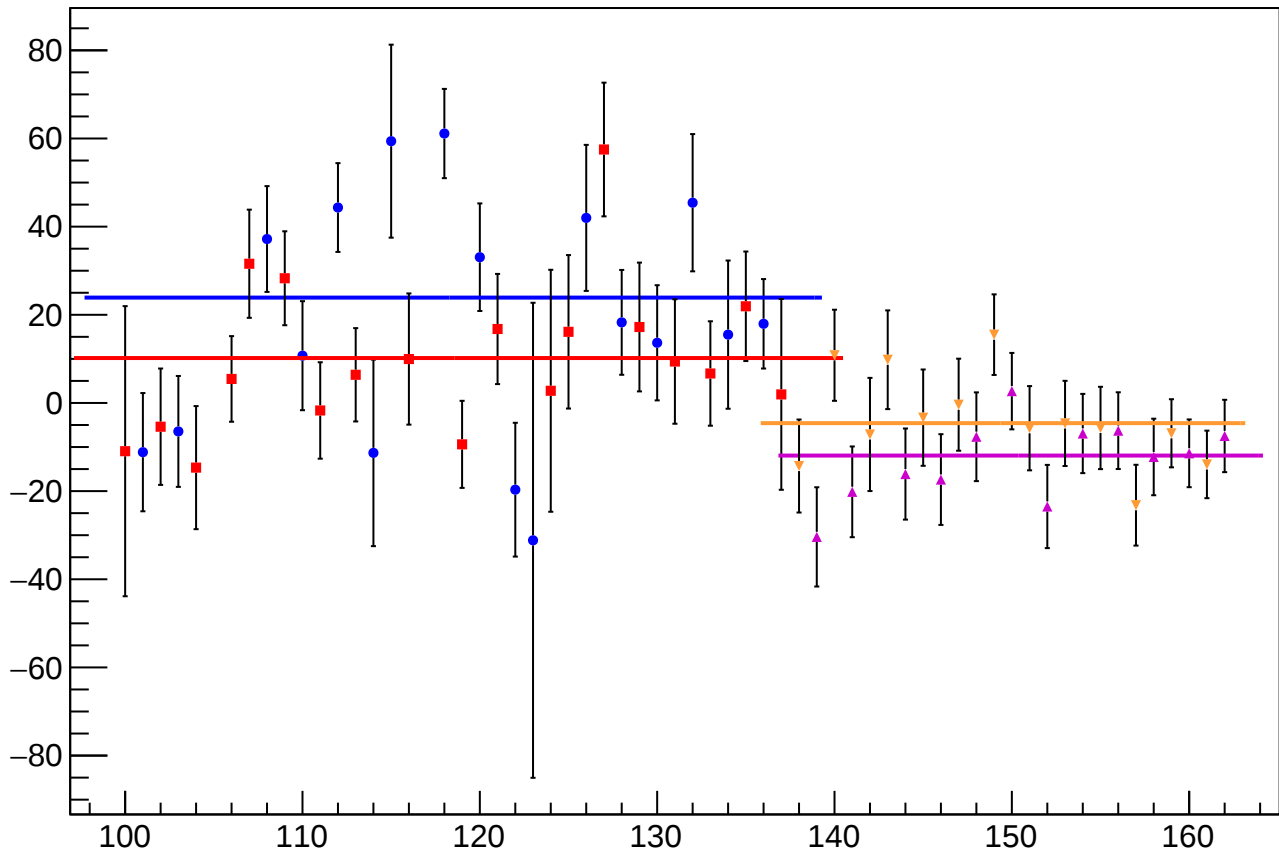
Right: 1251.883 $\pm$ 0.238 χ^2 /NDF: 132621.3/35

In: 1271.453 $\pm$ 0.225 χ^2 /NDF: 872594.5/28

Out: 1231.032 $\pm$ 0.215 χ^2 /NDF: 840270.8/31

All: 1250.290 $\pm$ 0.156 χ^2 /NDF: 1729687.7/60

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.904 ± 3.251 $\chi^2/\text{NDF}: 52.4/16$

Left Out: -4.583 ± 2.666 $\chi^2/\text{NDF}: 15.5/12$

Right Out: 10.190 ± 3.006 $\chi^2/\text{NDF}: 27.9/18$

Left In: -11.935 ± 2.662 $\chi^2/\text{NDF}: 9.3/11$

Left: -8.264 ± 1.884 $\chi^2/\text{NDF}: 28.6/24$

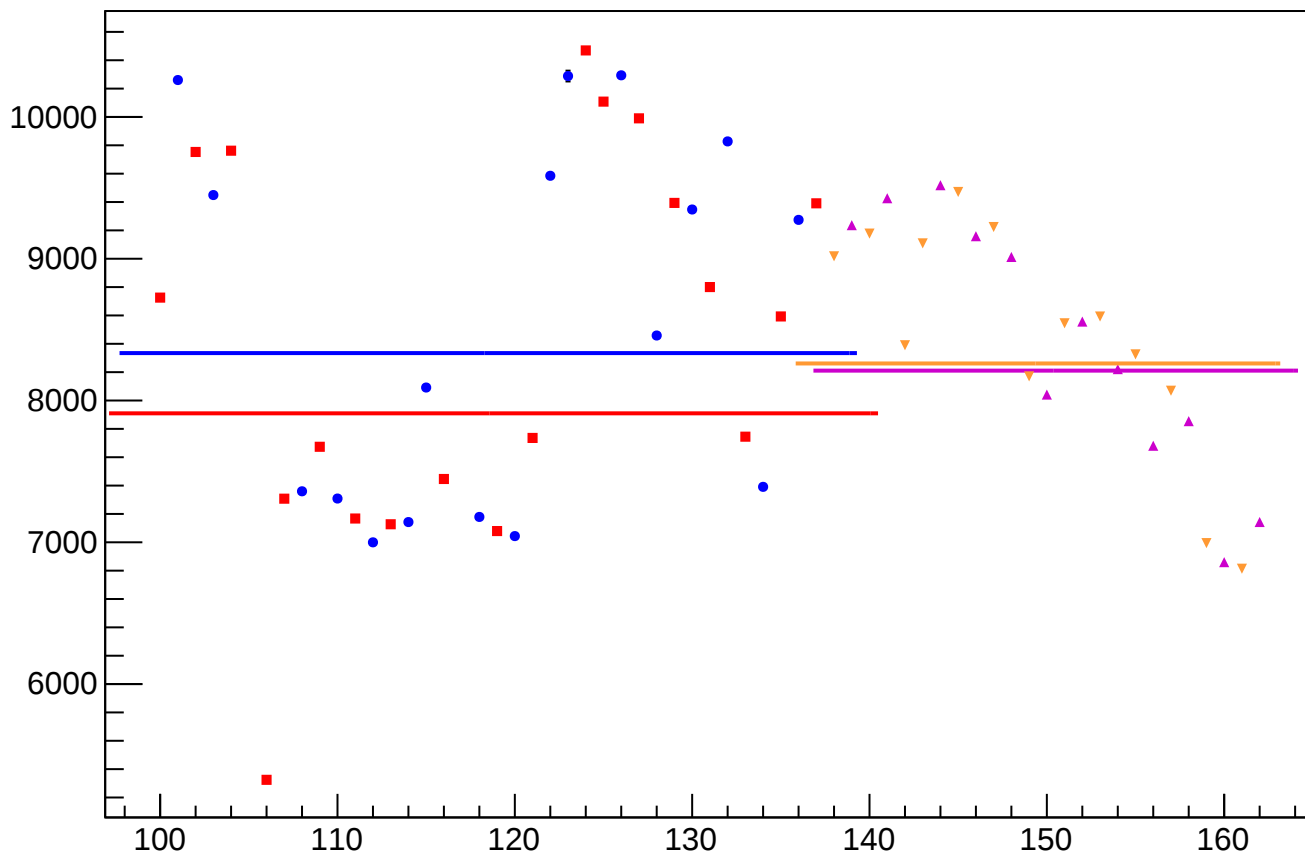
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 2.451 ± 2.059 $\chi^2/\text{NDF}: 134.5/28$

Out: 1.922 ± 1.994 $\chi^2/\text{NDF}: 57.0/31$

All: 2.178 ± 1.433 $\chi^2/\text{NDF}: 191.5/60$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.507 $\pm$ 2.299 χ^2/NDF : 272302.6/16

Left Out: 8261.319 $\pm$ 1.885 χ^2/NDF : 209576.4/12

Right Out: 7909.620 $\pm$ 2.125 χ^2/NDF : 390819.3/18

Left In: 8210.814 $\pm$ 1.882 χ^2/NDF : 216067.7/11

Left: 8236.029 $\pm$ 1.332 χ^2/NDF : 426003.5/24

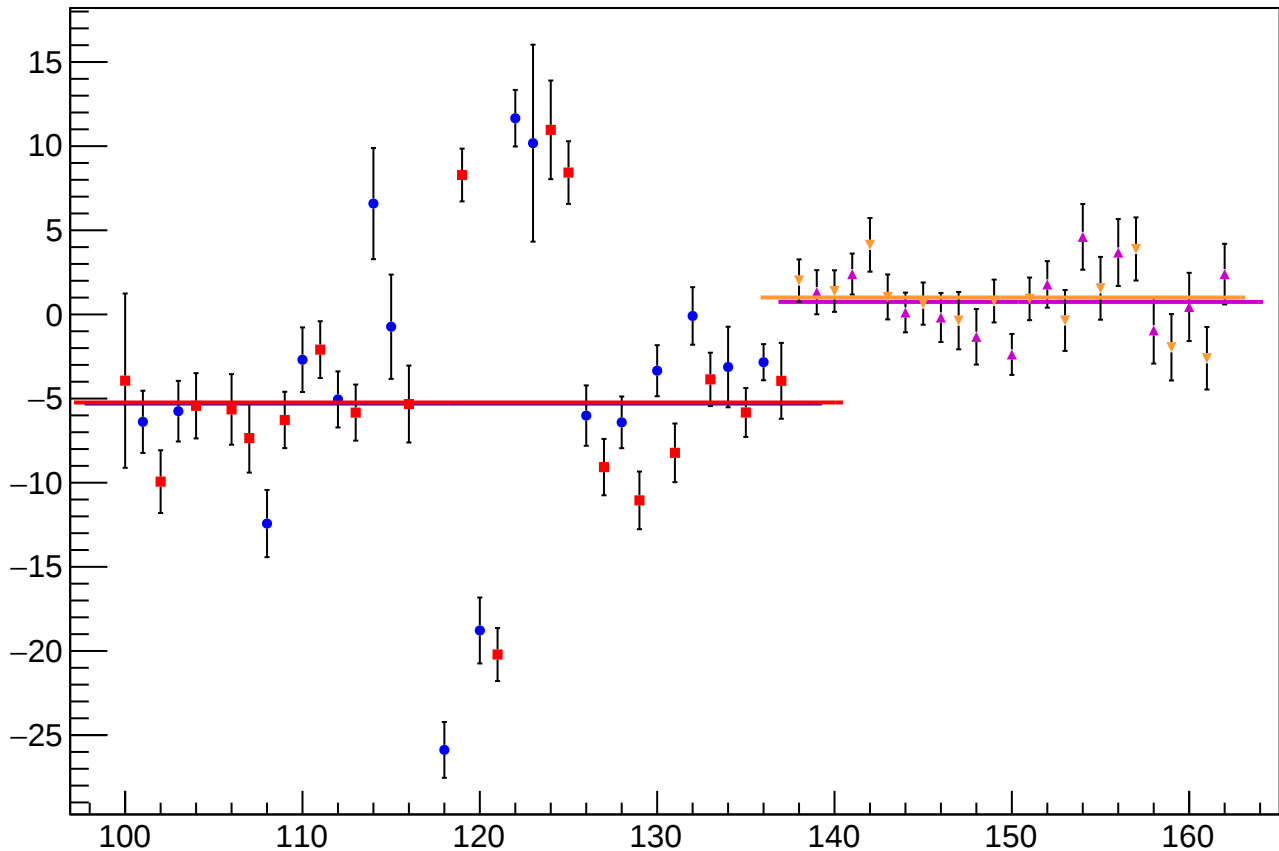
Right: 8105.450 $\pm$ 1.560 χ^2/NDF : 681543.4/35

In: 8260.466 $\pm$ 1.456 χ^2/NDF : 490103.7/28

Out: 8106.461 $\pm$ 1.410 χ^2/NDF : 615722.8/31

All: 8180.992 $\pm$ 1.013 χ^2/NDF : 1111597.9/60

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.295 ± 0.437 χ^2/NDF : 358.1/16

Left Out: 1.007 ± 0.412 χ^2/NDF : 14.4/12

Right Out: -5.233 ± 0.422 χ^2/NDF : 281.9/18

Left In: 0.743 ± 0.433 χ^2/NDF : 19.1/11

Left: 0.882 ± 0.299 χ^2/NDF : 33.8/24

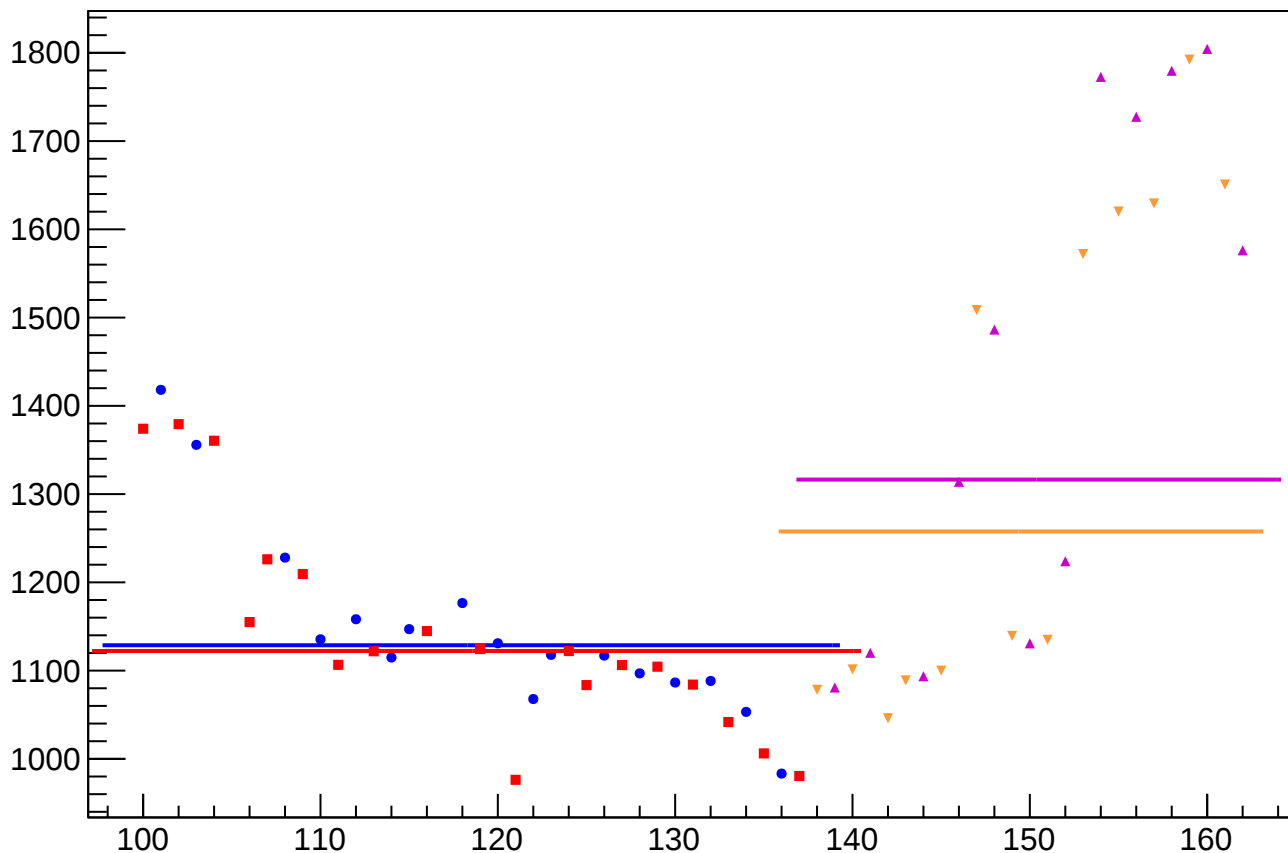
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -2.250 ± 0.308 χ^2/NDF : 473.6/28

Out: -2.042 ± 0.295 χ^2/NDF : 408.3/31

All: -2.141 ± 0.213 χ^2/NDF : 882.2/60

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 $\pm$ 0.309 χ^2 /NDF: 133096.9/16

Left Out: 1257.646 $\pm$ 0.291 χ^2 /NDF: 701917.6/12

Right Out: 1122.238 $\pm$ 0.298 χ^2 /NDF: 129601.6/18

Left In: 1316.430 $\pm$ 0.306 χ^2 /NDF: 726515.1/11

Left: 1285.582 $\pm$ 0.211 χ^2 /NDF: 1447769.6/24

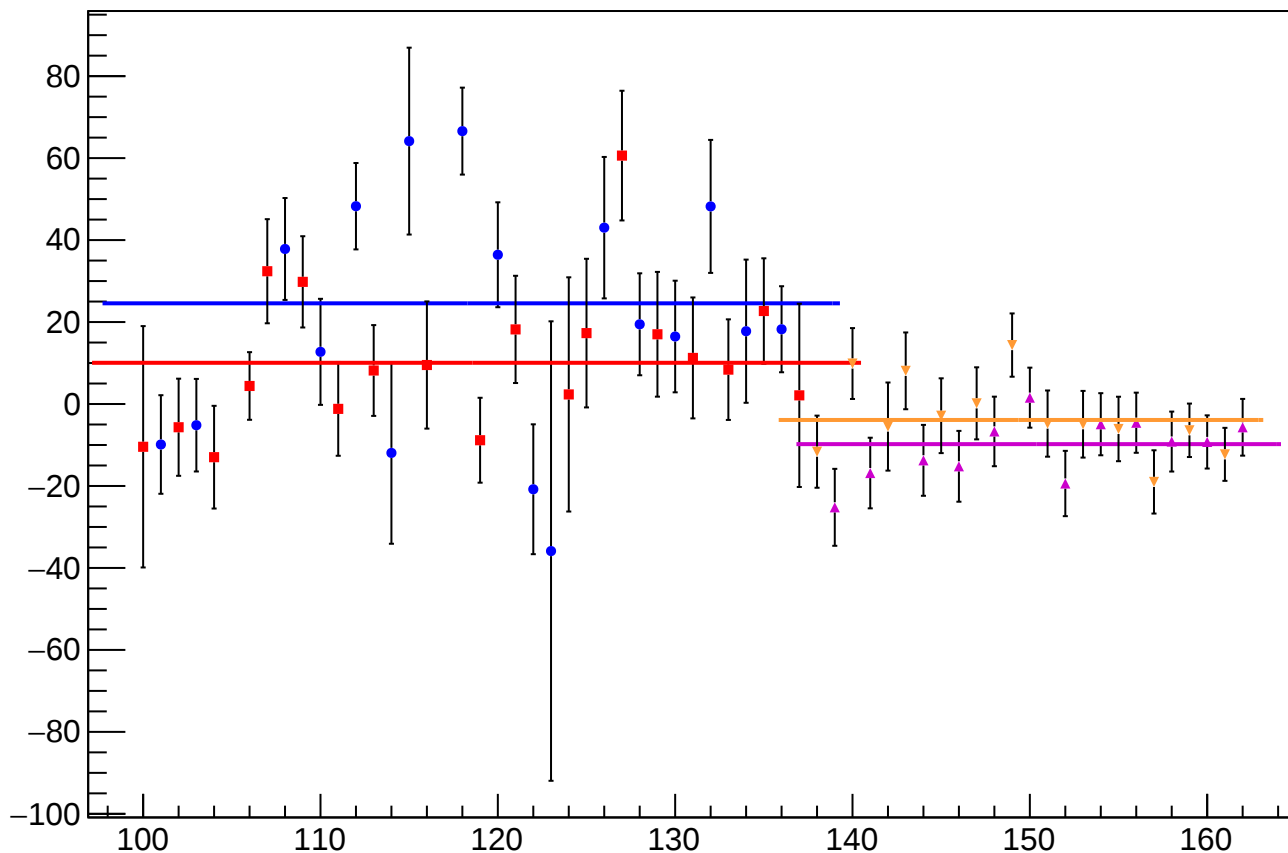
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

In: 1223.398 $\pm$ 0.217 χ^2 /NDF: 1045812.8/28

Out: 1191.489 $\pm$ 0.208 χ^2 /NDF: 937003.7/31

All: 1206.764 $\pm$ 0.150 χ^2 /NDF: 1994039.4/60

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 ± 3.318 $\chi^2/\text{NDF}: 58.1/16$

Left Out: -3.892 ± 2.242 $\chi^2/\text{NDF}: 16.6/12$

Right Out: 10.057 ± 3.008 $\chi^2/\text{NDF}: 28.8/18$

Left In: -9.790 ± 2.241 $\chi^2/\text{NDF}: 9.2/11$

Left: -6.844 ± 1.585 $\chi^2/\text{NDF}: 29.3/24$

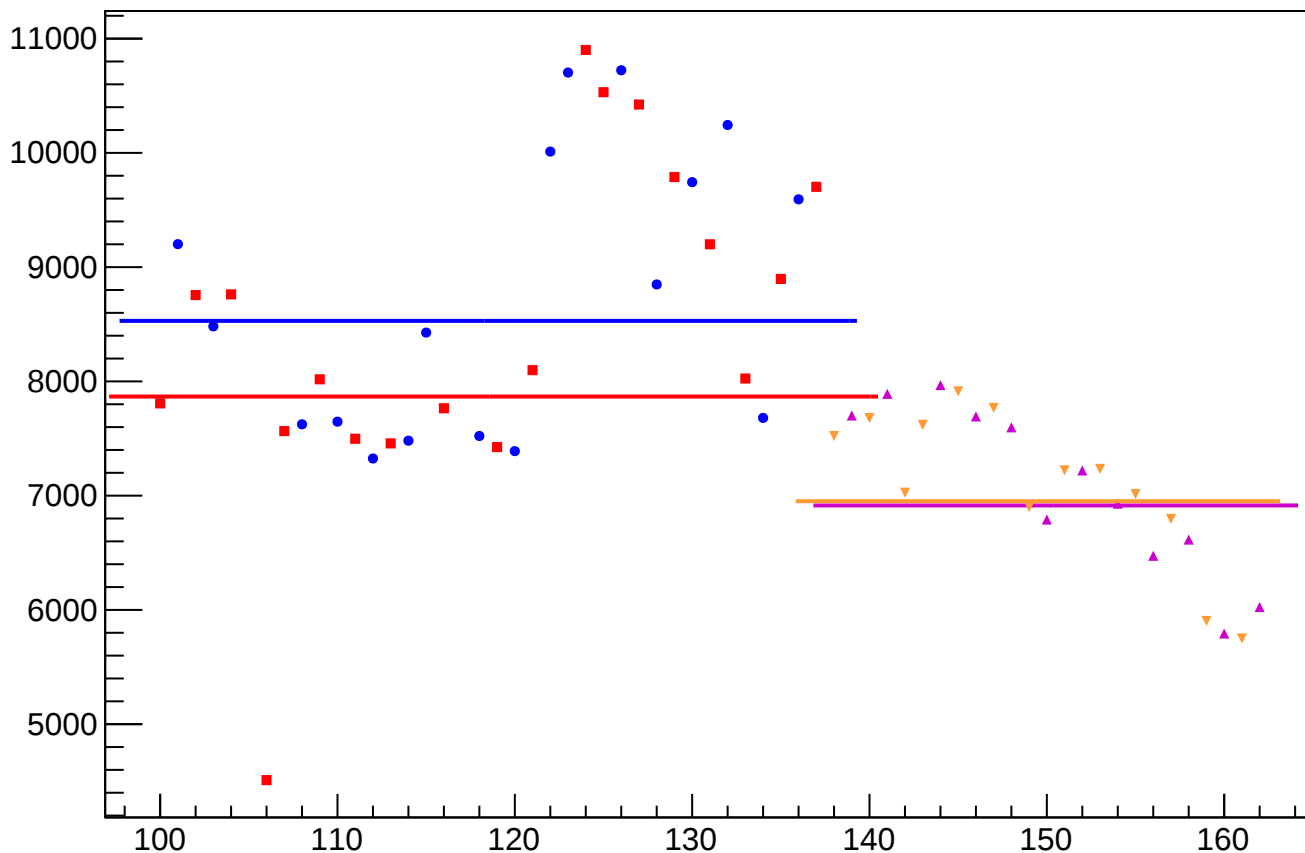
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: 0.970 ± 1.857 $\chi^2/\text{NDF}: 141.0/28$

Out: 1.091 ± 1.798 $\chi^2/\text{NDF}: 59.2/31$

All: 1.033 ± 1.292 $\chi^2/\text{NDF}: 200.2/60$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821 $\pm$ 2.346 χ^2 /NDF: 208336.1/16

Left Out: 6951.644 $\pm$ 1.586 χ^2 /NDF:198641.7/12

Right Out: 7867.584 $\pm$ 2.127 χ^2 /NDF: 555841.7/18

Left In: 6914.350 $\pm$ 1.584 χ^2 /NDF:205412.1/11

Left: 6932.982 $\pm$ 1.121 χ^2 /NDF: 404330.7/24

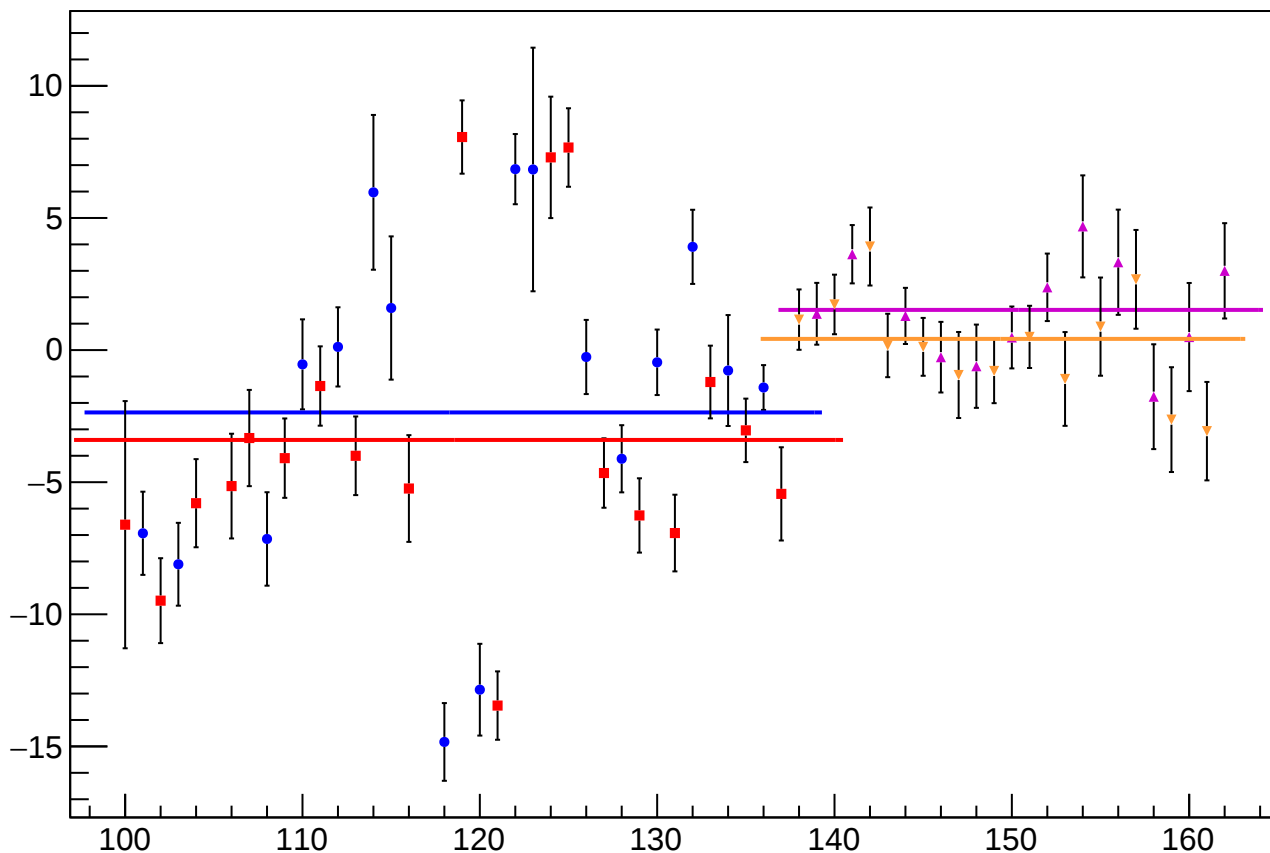
Right: 8166.253 $\pm$ 1.576 χ^2 /NDF: 807907.7/35

In: 7420.265 $\pm$ 1.313 χ^2 /NDF:739306.8/28

Out: 7278.894 $\pm$ 1.271 χ^2 /NDF:873698.3/31

All: 7347.288 $\pm$ 0.913 χ^2 /NDF: 1618988.5/60

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 ± 0.366 χ^2/NDF : 232.0/16

Left Out: 0.424 ± 0.385 χ^2/NDF : 17.3/12

Right Out: -3.401 ± 0.358 χ^2/NDF : 241.4/18

Left In: 1.521 ± 0.406 χ^2/NDF : 15.7/11

Left: 0.943 ± 0.279 χ^2/NDF : 36.9/24

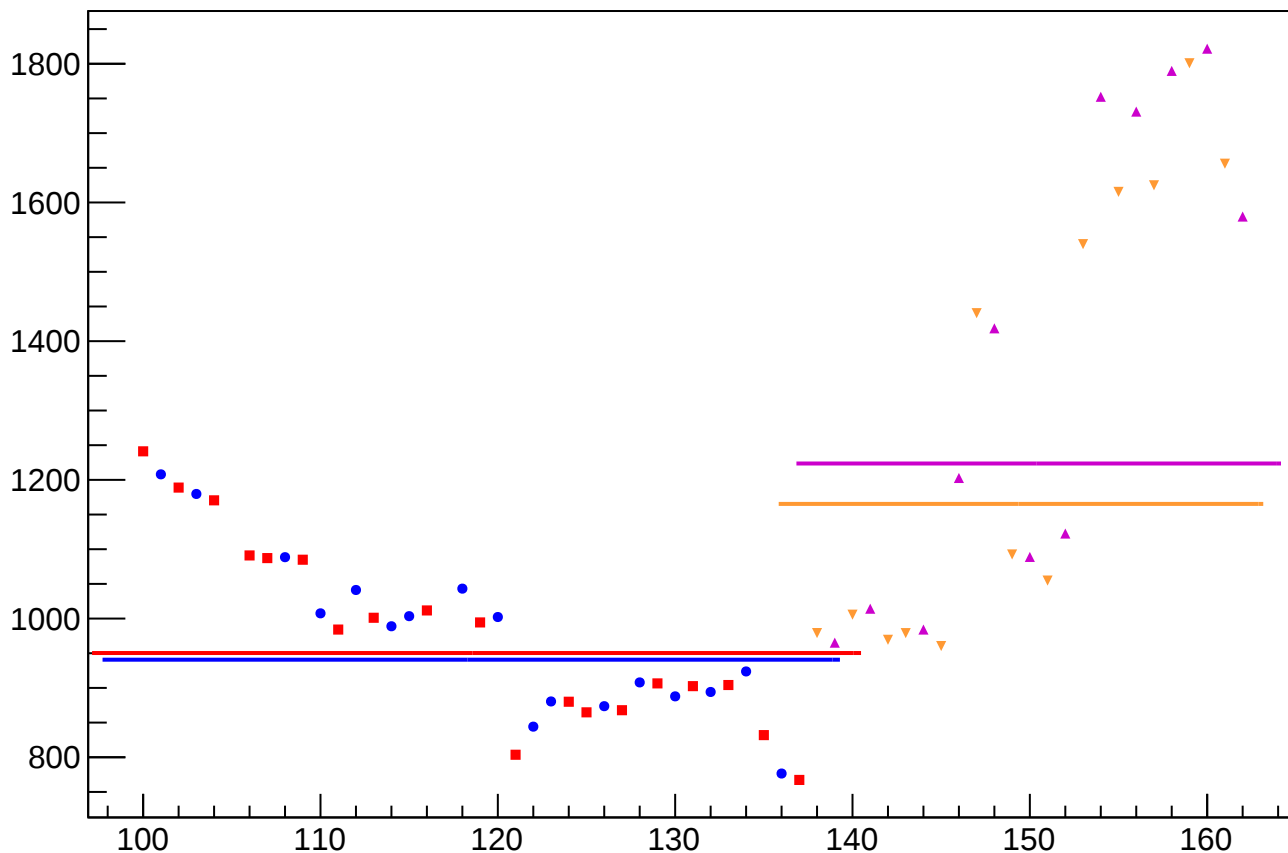
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.623 ± 0.272 χ^2/NDF : 298.2/28

Out: -1.626 ± 0.262 χ^2/NDF : 311.6/31

All: -1.142 ± 0.189 χ^2/NDF : 616.9/60

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683 ± 0.258 χ^2/NDF : 241768.4/16

Left Out: 1165.332 ± 0.272 χ^2/NDF : 999879.6/12

Right Out: 950.316 ± 0.253 χ^2/NDF : 220678.1/18

Left In: 1223.603 ± 0.287 χ^2/NDF : 1032740.1/11

Left: 1192.909 ± 0.198 χ^2/NDF : 2054307.0/24

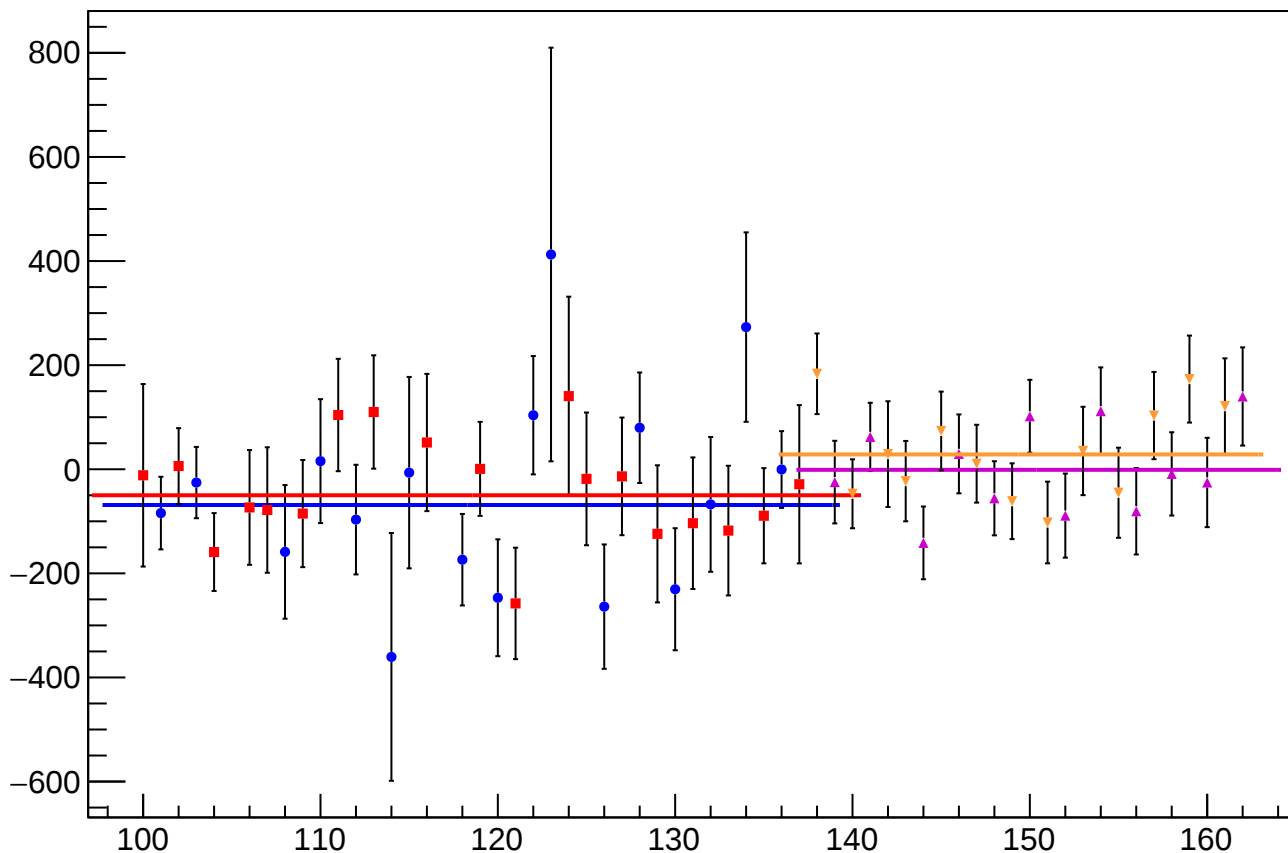
Right: 945.597 ± 0.181 χ^2/NDF : 463155.1/35

In: 1067.303 ± 0.192 χ^2/NDF : 1810684.5/28

Out: 1050.091 ± 0.185 χ^2/NDF : 1554967.3/31

All: 1058.392 ± 0.133 χ^2/NDF : 3369807.4/60

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 28.474 $\pm$ 22.137 χ^2/NDF :16.0/12

Right Out: -49.958 $\pm$ 25.020 χ^2/NDF : 14.0/18

Left In: -1.092 $\pm$ 22.275 χ^2/NDF :14.2/11

Left: 13.783 $\pm$ 15.702 χ^2/NDF : 31.1/24

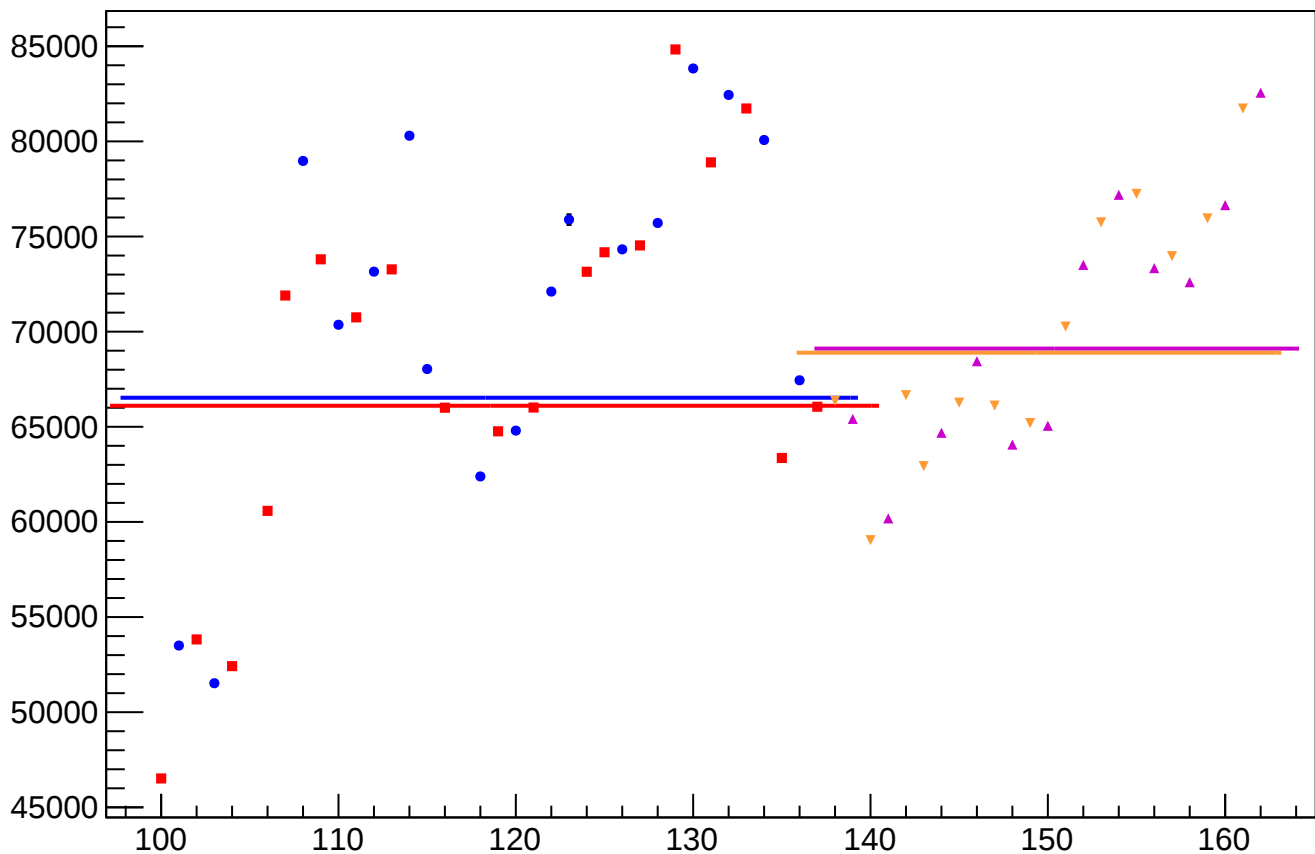
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -29.774 $\pm$ 16.901 χ^2/NDF :39.9/28

Out: -5.966 $\pm$ 16.579 χ^2/NDF :35.5/31

All: -17.641 $\pm$ 11.835 χ^2/NDF : 76.4/60

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347 χ^2/NDF : 320887.2/16

Left Out: 68894.321+/-15.653 χ^2/NDF : 162556.9/12

Right Out: 66105.849+/-17.692 χ^2/NDF : 298485.4/18

Left In: 69110.491+/-15.751 χ^2/NDF : 155784.5/11

Left: 69001.736+/-11.103 χ^2/NDF : 318436.1/24

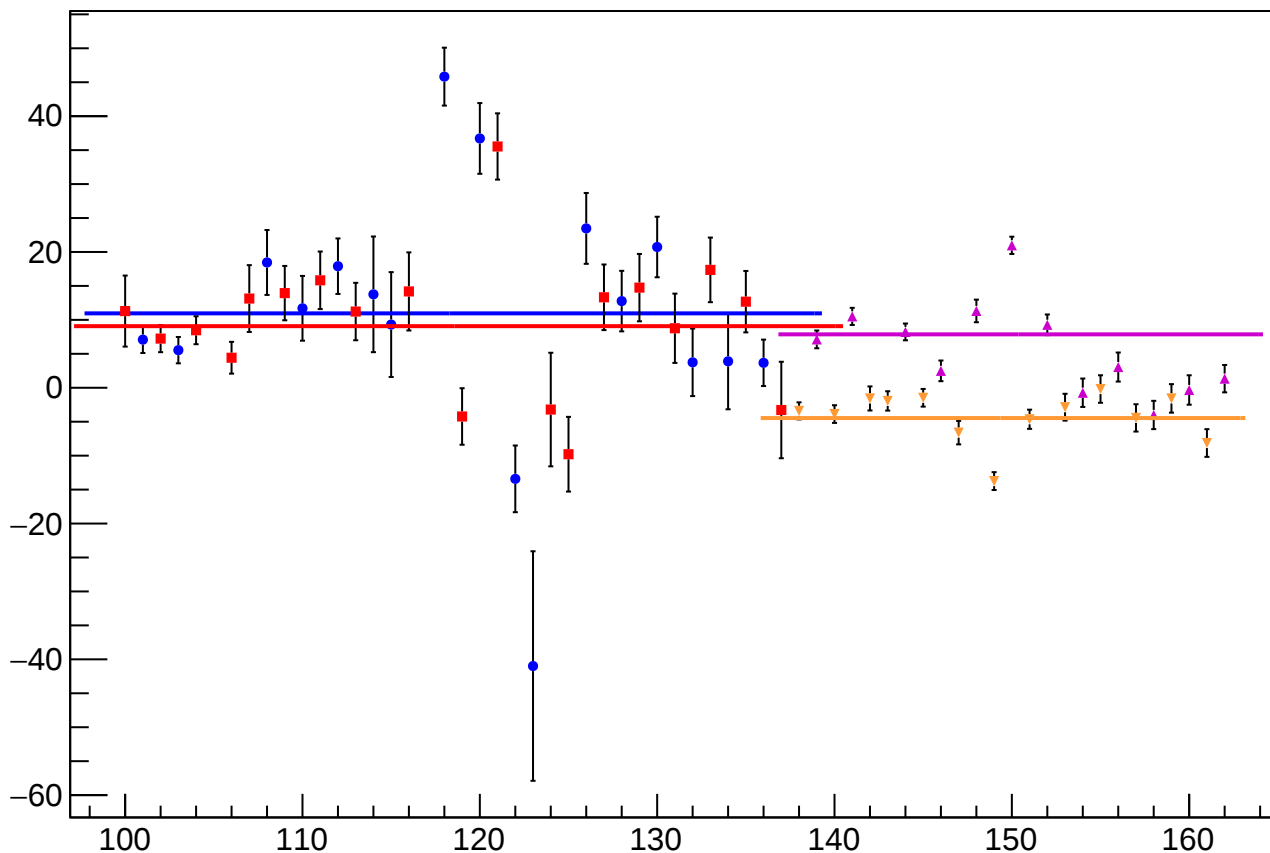
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 68014.393+/-11.951 χ^2/NDF : 488085.0/28

Out: 67669.882+/-11.723 χ^2/NDF : 474976.4/31

All: 67838.828+/-8.369 χ^2/NDF : 963484.9/60

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958+/-0.943 χ^2/NDF : 160.9/16

Left Out: -4.462+/-0.436 χ^2/NDF : 73.6/12

Right Out: 9.072+/-0.866 χ^2/NDF : 73.1/18

Left In: 7.867+/-0.454 χ^2/NDF : 208.2/11

Left: 1.455+/-0.315 χ^2/NDF : 664.9/24

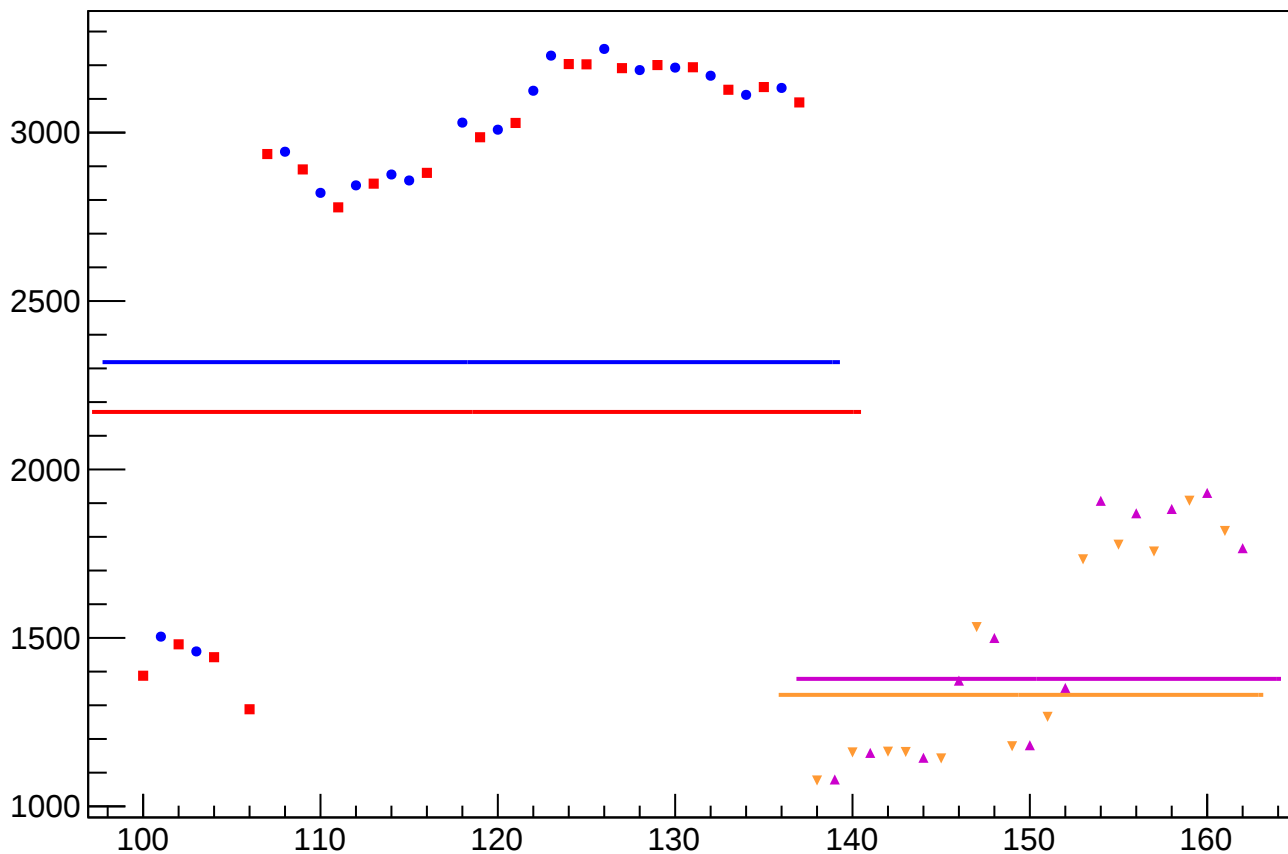
Right: 9.935+/-0.638 χ^2/NDF : 236.2/35

In: 8.448+/-0.409 χ^2/NDF : 377.8/28

Out: -1.723+/-0.390 χ^2/NDF : 341.4/31

All: 3.114+/-0.282 χ^2/NDF : 1043.2/60

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 $\pm$ 0.667 χ^2 /NDF: 1408300.4/16

Left Out: 1330.935 $\pm$ 0.309 χ^2 /NDF: 796483.4/12

Right Out: 2170.786 $\pm$ 0.613 χ^2 /NDF: 1753687.8/18

Left In: 1378.423 $\pm$ 0.321 χ^2 /NDF: 850462.0/11

Left: 1353.729 $\pm$ 0.223 χ^2 /NDF: 1658313.4/24

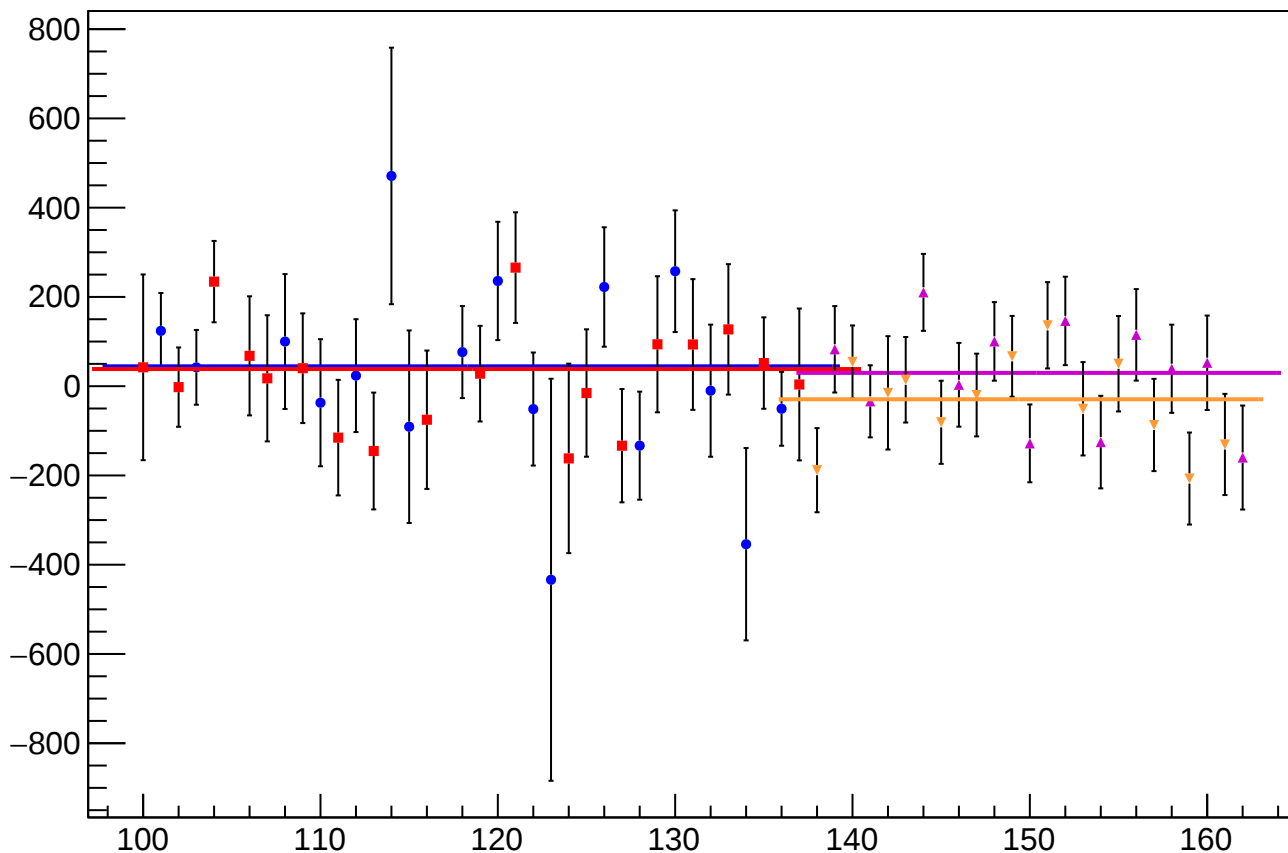
Right: 2238.439 $\pm$ 0.451 χ^2 /NDF: 3188639.4/35

In: 1555.421 $\pm$ 0.289 χ^2 /NDF: 3872003.1/28

Out: 1500.898 $\pm$ 0.276 χ^2 /NDF: 4049357.2/31

All: 1526.829 $\pm$ 0.200 χ^2 /NDF: 7939976.9/60

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2 /NDF: 19.1/16

Left Out: -29.337 $\pm$ 27.336 χ^2 /NDF:13.2/12

Right Out: 38.425 $\pm$ 29.435 χ^2 /NDF: 15.7/18

Left In: 29.791 $\pm$ 27.479 χ^2 /NDF:16.3/11

Left: 0.073 $\pm$ 19.380 χ^2 /NDF: 31.8/24

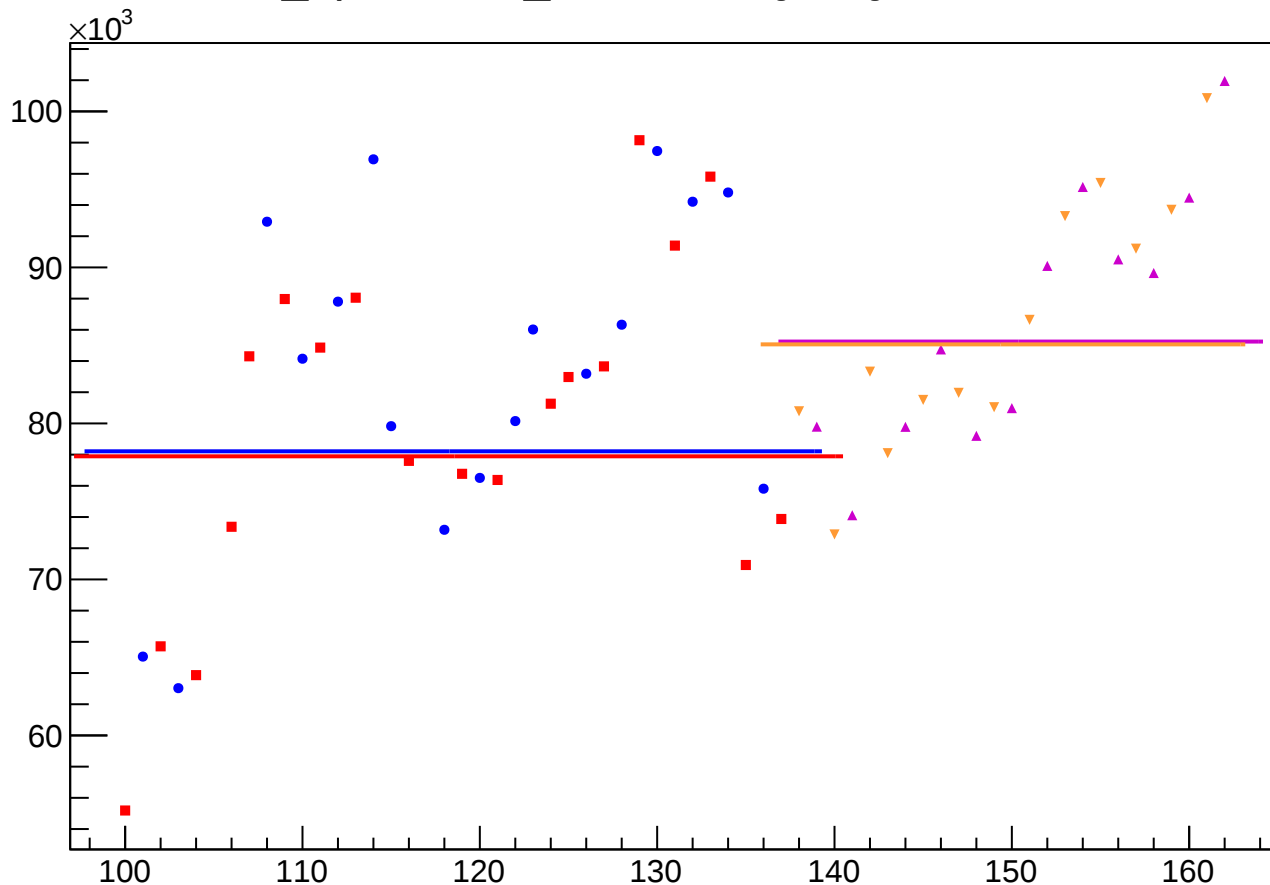
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 36.390 $\pm$ 20.395 χ^2 /NDF:35.5/28

Out: 2.042 $\pm$ 20.030 χ^2 /NDF:31.8/31

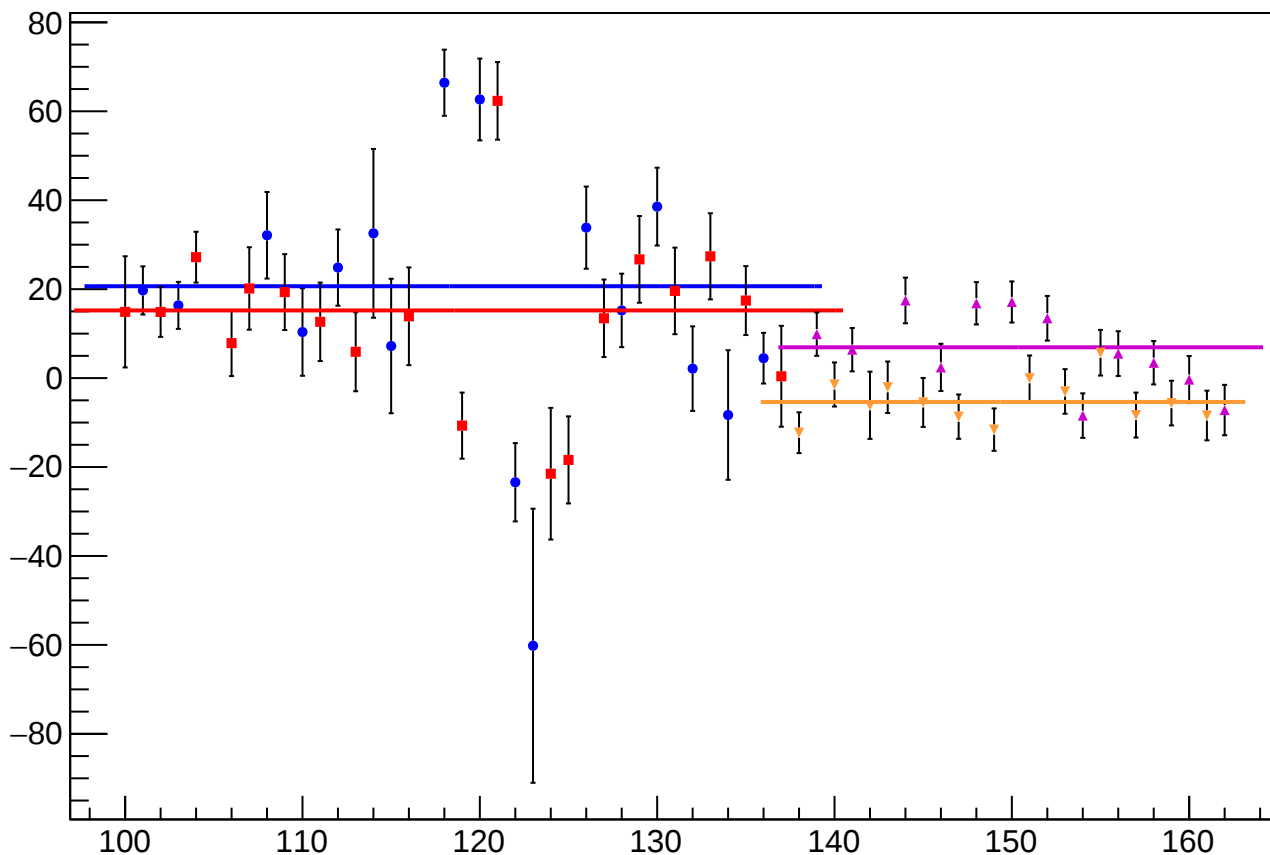
All: 18.906 $\pm$ 14.291 χ^2 /NDF: 68.7/60

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519	χ^2/NDF : 251056.7/16	Left: 85157.051+/-13.704	χ^2/NDF : 315432.9/24
Left Out: 85067.705+/-19.330	χ^2/NDF : 160105.0/12	Right: 78047.137+/-14.960	χ^2/NDF : 498141.9/35
Right Out: 77891.938+/-20.814	χ^2/NDF : 246970.2/18	In: 82087.901+/-14.421	χ^2/NDF : 465206.3/28
Left In: 85247.336+/-19.431	χ^2/NDF : 155284.9/11	Out: 81744.762+/-14.164	χ^2/NDF : 470894.1/31
		All: 81913.239+/-10.105	χ^2/NDF : 936388.6/60

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2/NDF : 117.7/16

Left Out: -5.363 $\pm$ 1.444 χ^2/NDF :12.0/12

Right Out: 15.216 $\pm$ 1.955 χ^2/NDF : 71.3/18

Left In: 6.925 $\pm$ 1.449 χ^2/NDF :34.3/11

Left: 0.761 $\pm$ 1.023 χ^2/NDF : 82.3/24

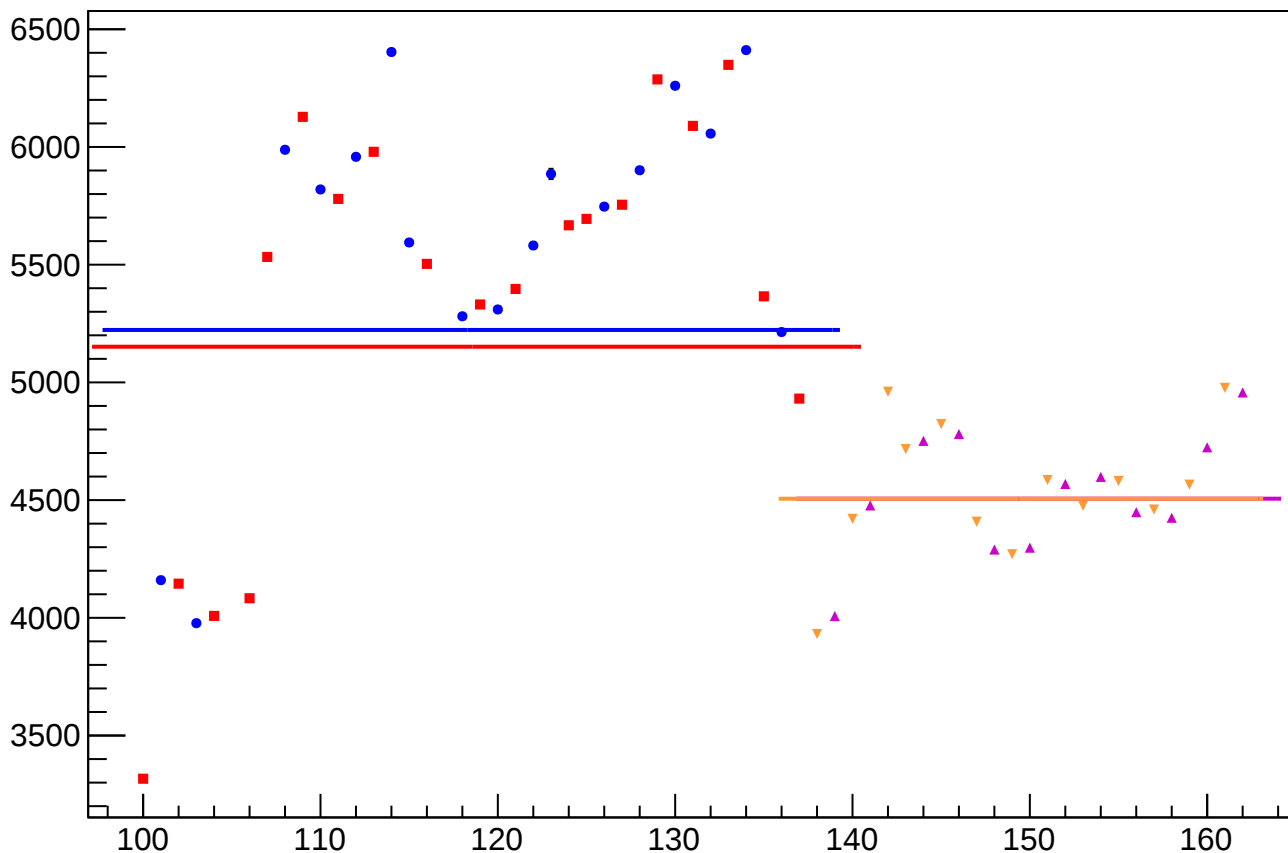
Right: 17.826 $\pm$ 1.410 χ^2/NDF : 192.8/35

In: 11.542 $\pm$ 1.181 χ^2/NDF :182.2/28

Out: 1.904 $\pm$ 1.162 χ^2/NDF :155.0/31

All: 6.646 $\pm$ 0.828 χ^2/NDF : 371.0/60

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767+/-1.440 χ^2/NDF : 312497.9/16

Left Out: 4505.907+/-1.021 χ^2/NDF : 69801.8/12

Right Out: 5151.532+/-1.382 χ^2/NDF : 387685.6/18

Left In: 4506.016+/-1.025 χ^2/NDF : 57007.0/11

Left: 4505.962+/-0.723 χ^2/NDF : 126808.7/24

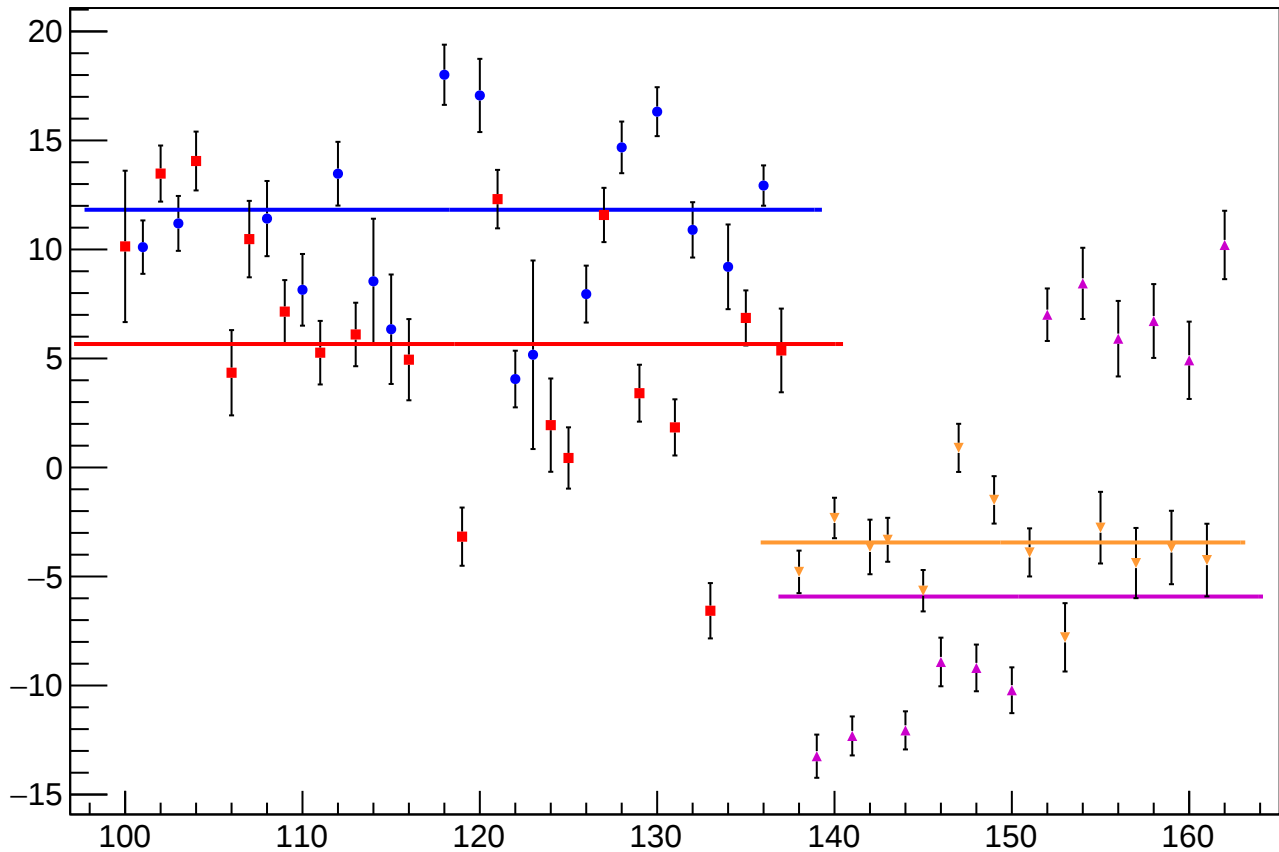
Right: 5185.701+/-0.997 χ^2/NDF : 701457.6/35

In: 4747.026+/-0.835 χ^2/NDF : 534042.5/28

Out: 4733.914+/-0.821 χ^2/NDF : 598619.2/31

All: 4740.364+/-0.585 χ^2/NDF : 1132787.0/60

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.439 ± 0.328 $\chi^2/\text{NDF}: 36.2/12$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -5.920 ± 0.340 $\chi^2/\text{NDF}: 626.2/11$

Left: -4.632 ± 0.236 $\chi^2/\text{NDF}: 690.0/24$

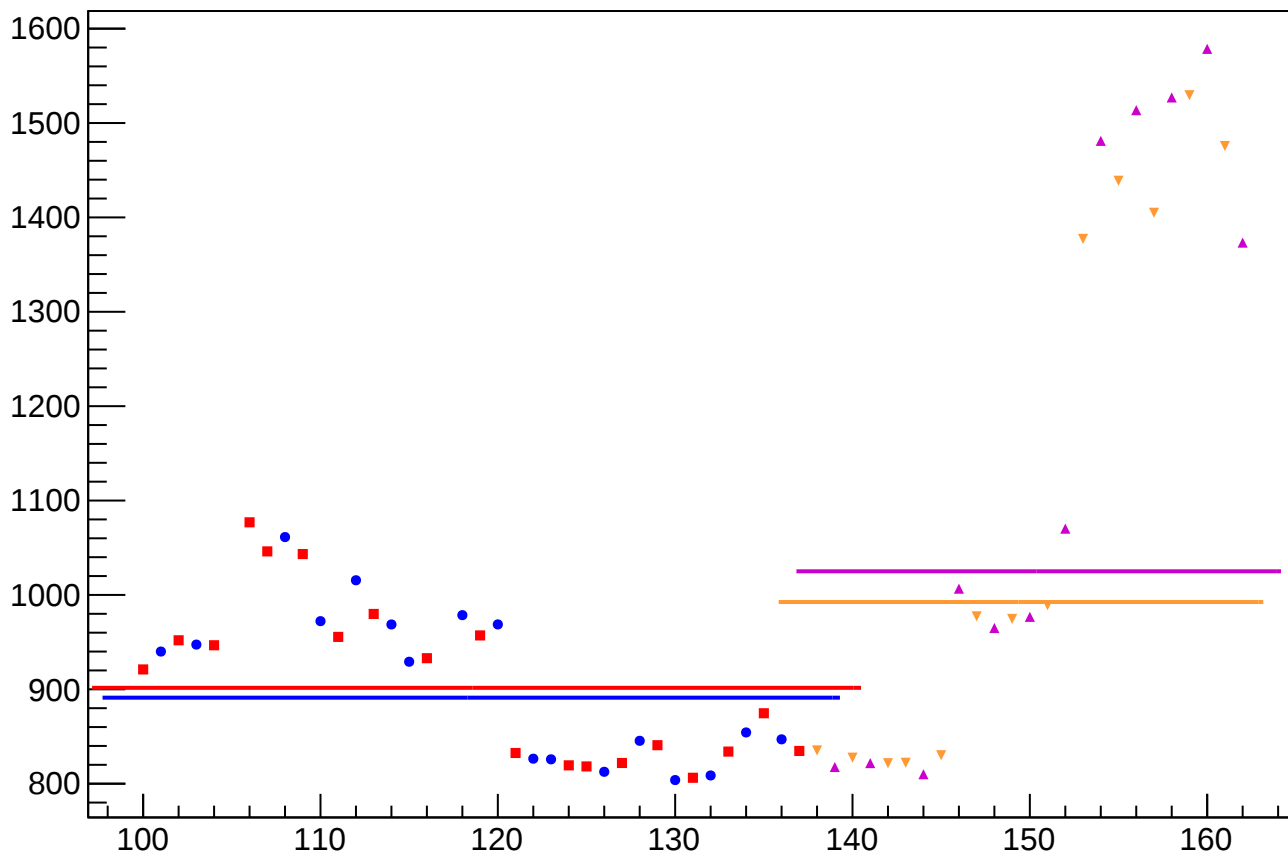
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.845 ± 0.242 $\chi^2/\text{NDF}: 2085.1/28$

Out: 0.965 ± 0.235 $\chi^2/\text{NDF}: 709.5/31$

All: 1.879 ± 0.169 $\chi^2/\text{NDF}: 2825.6/60$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149 $\pm$ 0.244 χ^2/NDF : 101659.1/16

Left Out: 992.494 $\pm$ 0.232 χ^2/NDF : 1039899.2/12

Right Out: 901.588 $\pm$ 0.239 χ^2/NDF : 114590.8/18

Left In: 1025.056 $\pm$ 0.241 χ^2/NDF : 1110209.0/11

Left: 1008.158 $\pm$ 0.167 χ^2/NDF : 2159605.8/24

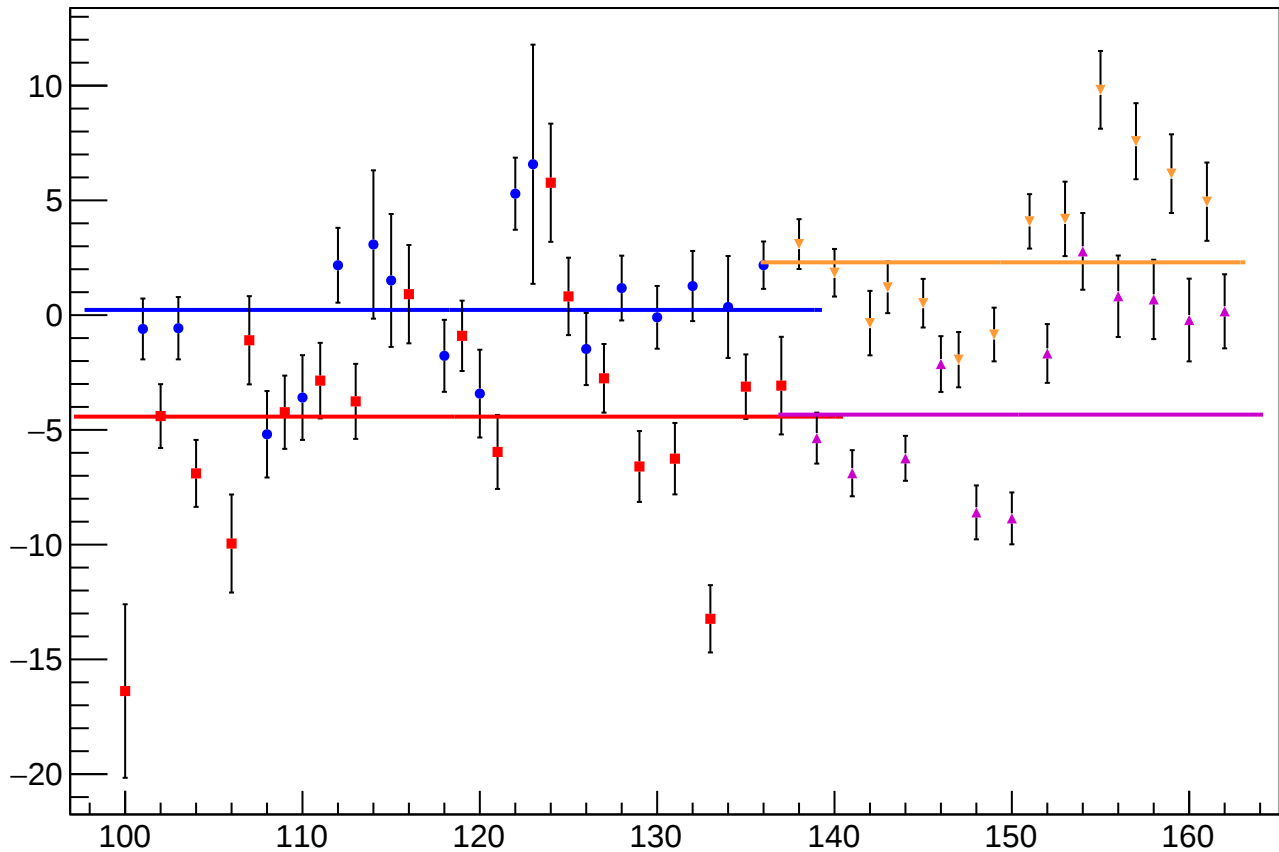
Right: 896.461 $\pm$ 0.171 χ^2/NDF : 217184.3/35

In: 958.904 $\pm$ 0.171 χ^2/NDF : 1364766.2/28

Out: 948.505 $\pm$ 0.166 χ^2/NDF : 1228951.1/31

All: 953.559 $\pm$ 0.119 χ^2/NDF : 2595613.2/60

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 $\chi^2/\text{NDF}: 38.5/16$

Left Out: 2.300 ± 0.356 $\chi^2/\text{NDF}: 68.6/12$

Right Out: -4.423 ± 0.387 $\chi^2/\text{NDF}: 103.3/18$

Left In: -4.335 ± 0.369 $\chi^2/\text{NDF}: 95.8/11$

Left: -0.901 ± 0.256 $\chi^2/\text{NDF}: 331.7/24$

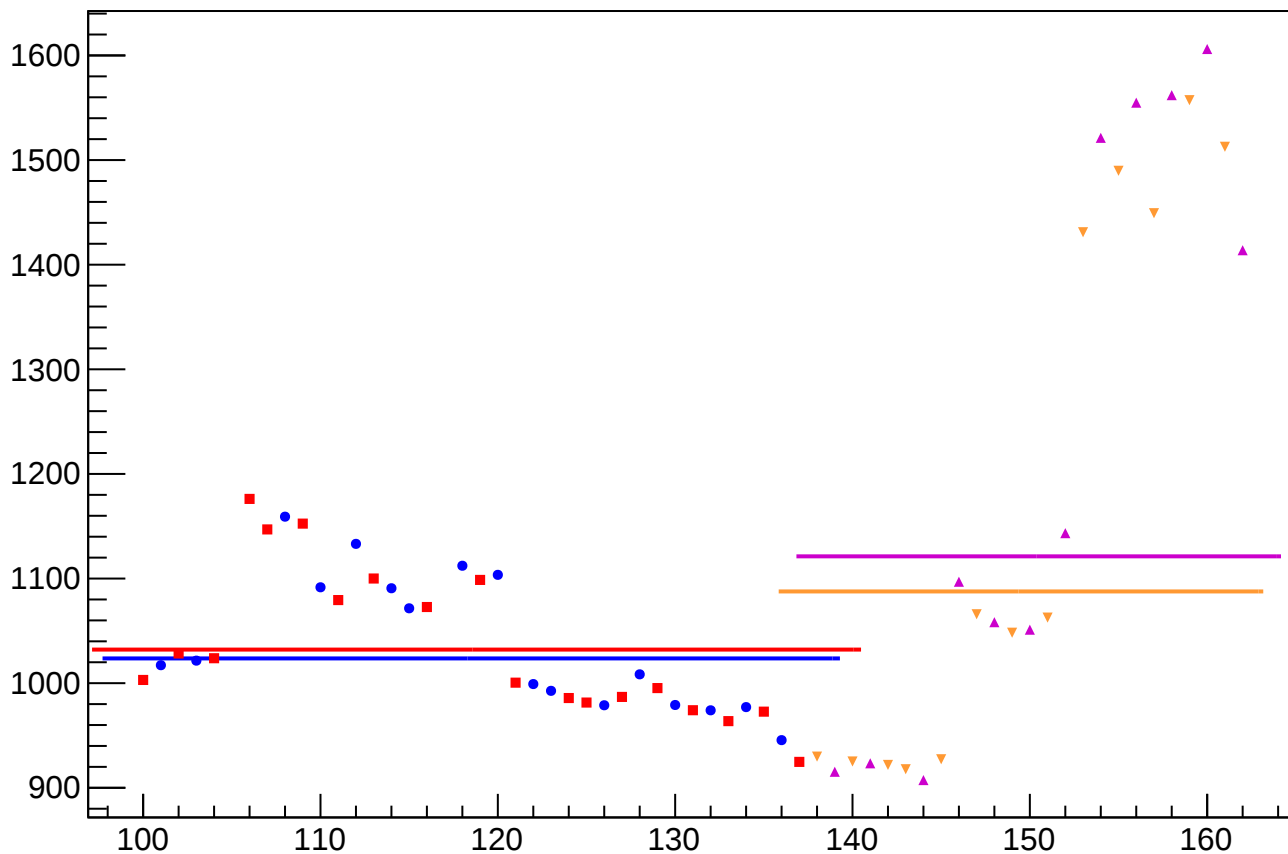
Right: -2.147 ± 0.276 $\chi^2/\text{NDF}: 212.6/35$

In: -2.208 ± 0.270 $\chi^2/\text{NDF}: 205.6/28$

Out: -0.787 ± 0.262 $\chi^2/\text{NDF}: 335.4/31$

All: -1.477 ± 0.188 $\chi^2/\text{NDF}: 555.3/60$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 +/- 0.279 χ^2/NDF : 52373.8/16

Left Out: 1087.679 +/- 0.252 χ^2/NDF : 786368.5/12

Right Out: 1032.107 +/- 0.273 χ^2/NDF : 59391.6/18

Left In: 1121.230 +/- 0.261 χ^2/NDF : 830776.8/11

Left: 1103.863 +/- 0.181 χ^2/NDF : 1625699.4/24

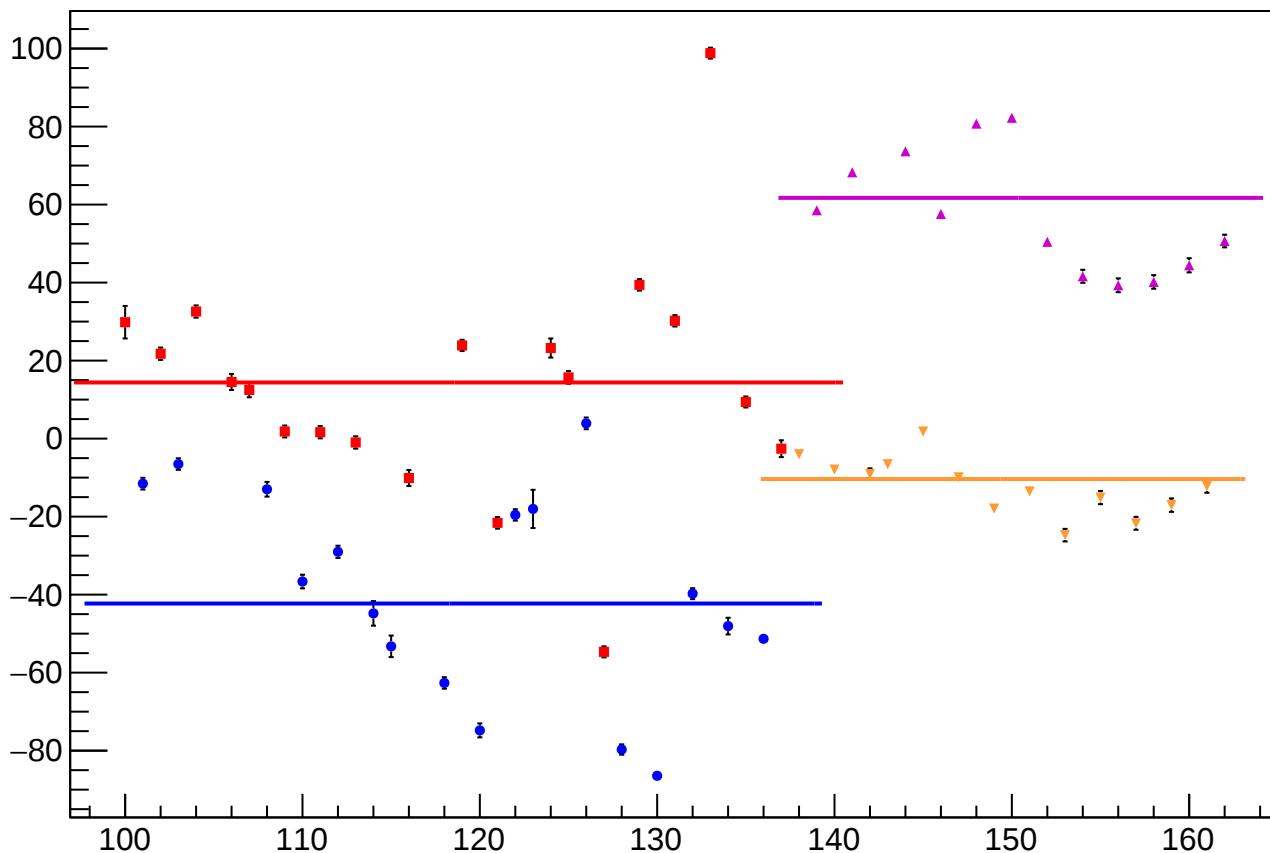
Right: 1027.970 +/- 0.195 χ^2/NDF : 112233.0/35

In: 1075.744 +/- 0.191 χ^2/NDF : 948307.0/28

Out: 1062.162 +/- 0.185 χ^2/NDF : 868096.8/31

All: 1068.758 +/- 0.133 χ^2/NDF : 1819013.0/60

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 $\chi^2/\text{NDF}: 5126.8/16$

Left Out: -10.358 ± 0.365 $\chi^2/\text{NDF}: 367.4/12$

Right Out: 14.393 ± 0.378 $\chi^2/\text{NDF}: 7669.8/18$

Left In: 61.721 ± 0.380 $\chi^2/\text{NDF}: 1373.4/11$

Left: 24.200 ± 0.263 $\chi^2/\text{NDF}: 20481.0/24$

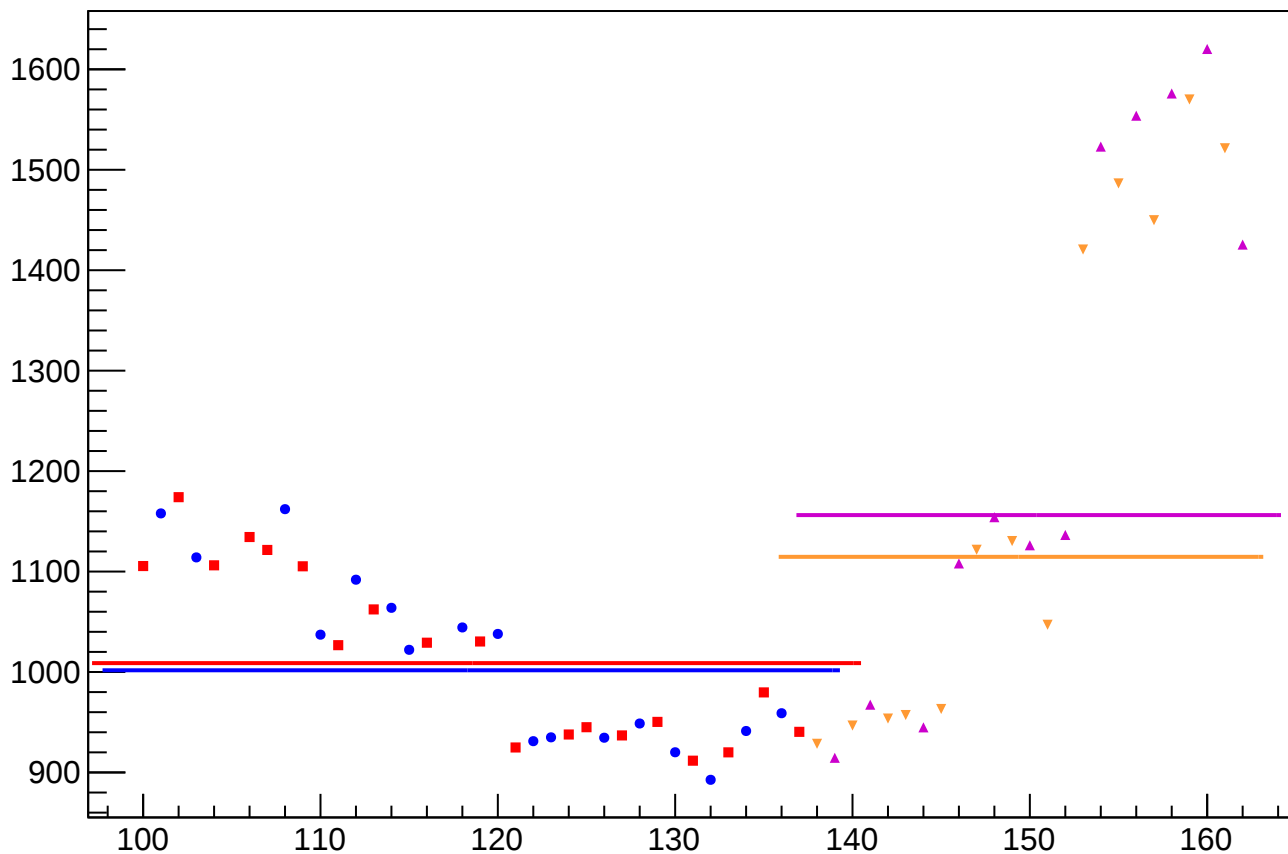
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 10.703 ± 0.271 $\chi^2/\text{NDF}: 43266.6/28$

Out: 1.555 ± 0.263 $\chi^2/\text{NDF}: 10255.6/31$

All: 5.982 ± 0.189 $\chi^2/\text{NDF}: 54109.5/60$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1114.657 $\pm$ 0.258 χ^2 /NDF: 715816.7/12

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1156.218 $\pm$ 0.269 χ^2 /NDF: 746501.7/11

Left: 1134.583 $\pm$ 0.186 χ^2 /NDF: 1474779.1/24

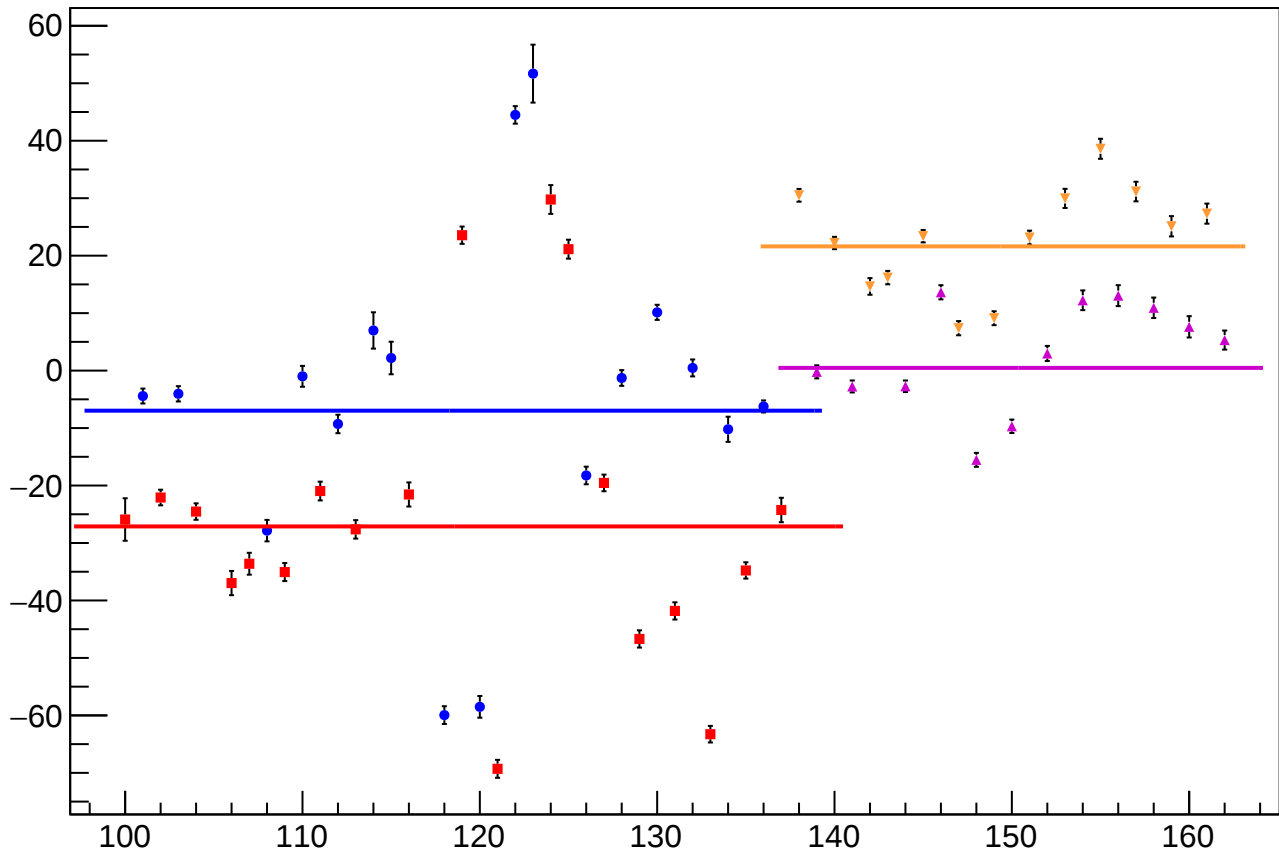
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1080.420 $\pm$ 0.192 χ^2 /NDF: 1004289.1/28

Out: 1063.728 $\pm$ 0.186 χ^2 /NDF: 892248.4/31

All: 1071.806 $\pm$ 0.133 χ^2 /NDF: 1900449.0/60

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 21.614 ± 0.367 χ^2/NDF : 518.5/12

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 0.474 ± 0.380 χ^2/NDF : 538.5/11

Left: 11.423 ± 0.264 χ^2/NDF : 2659.9/24

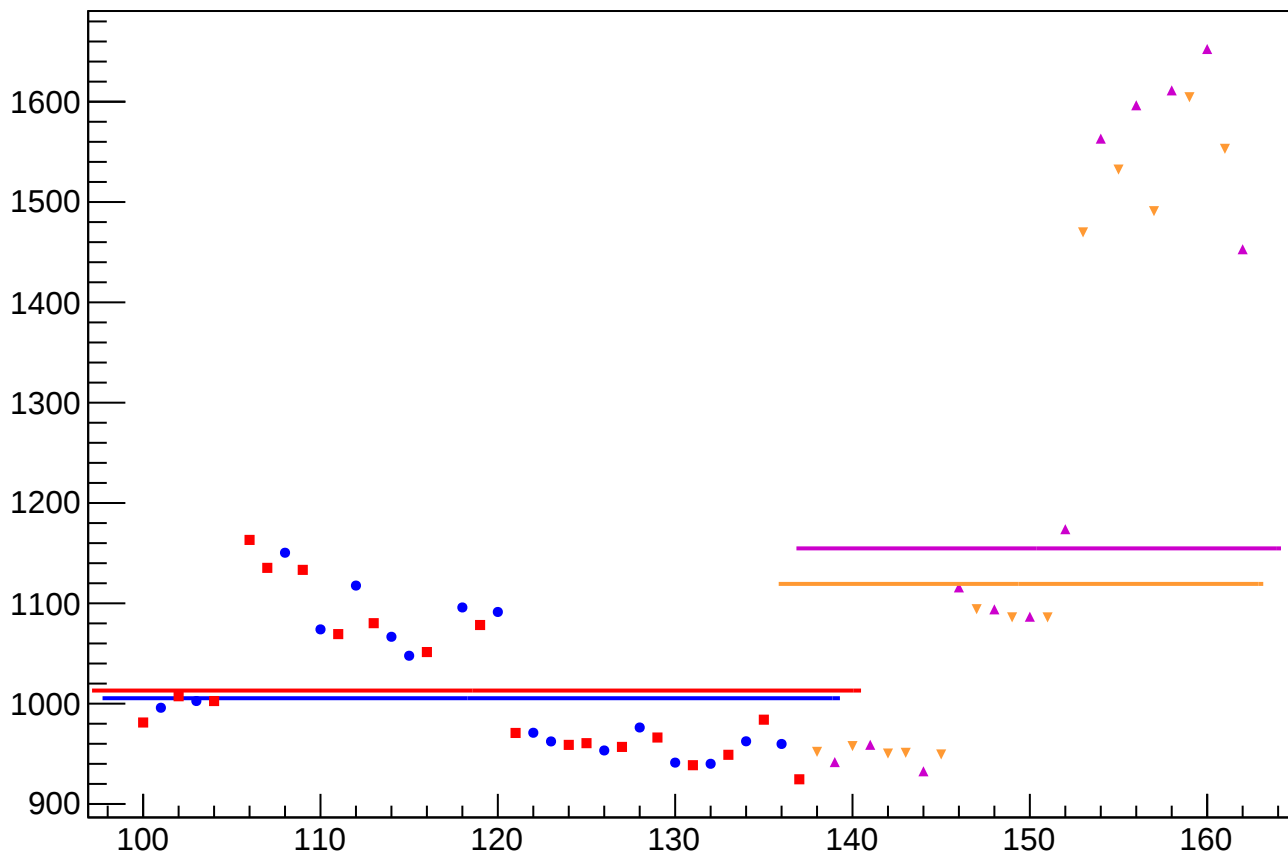
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: -3.173 ± 0.271 χ^2/NDF : 4363.5/28

Out: -1.904 ± 0.264 χ^2/NDF : 13328.5/31

All: -2.520 ± 0.189 χ^2/NDF : 17703.3/60

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409+/-0.274 χ^2/NDF : 54586.0/16

Left Out: 1119.359+/-0.259 χ^2/NDF : 782329.3/12

Right Out: 1013.064+/-0.268 χ^2/NDF : 63265.7/18

Left In: 1154.762+/-0.269 χ^2/NDF : 822043.3/11

Left: 1136.425+/-0.187 χ^2/NDF : 1613363.3/24

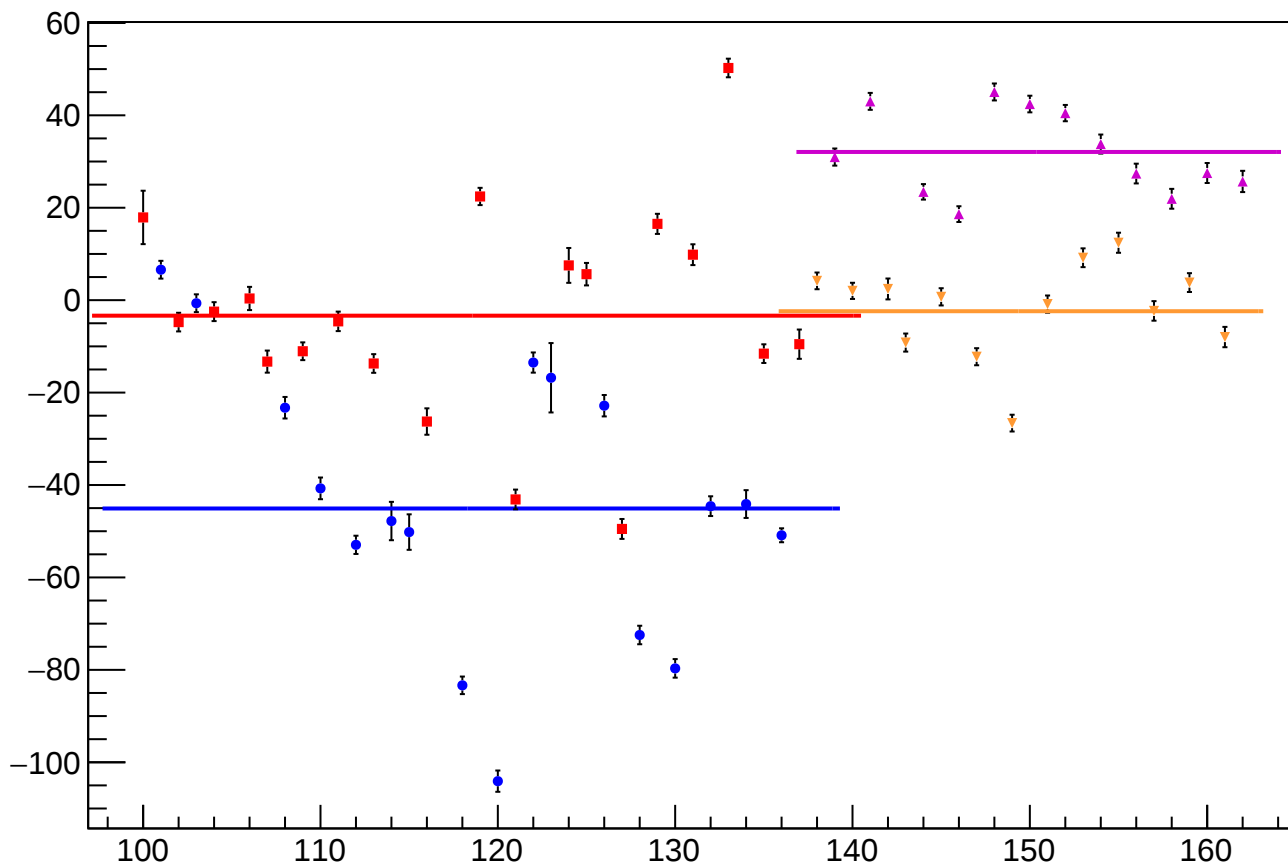
Right: 1009.320+/-0.192 χ^2/NDF : 118249.5/35

In: 1081.631+/-0.192 χ^2/NDF : 1027901.4/28

Out: 1068.059+/-0.186 χ^2/NDF : 926735.0/31

All: 1074.648+/-0.134 χ^2/NDF : 1957208.4/60

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.393 ± 0.543 χ^2/NDF : 340.7/12

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 32.069 ± 0.551 χ^2/NDF : 270.7/11

Left: 14.587 ± 0.387 χ^2/NDF : 2594.1/24

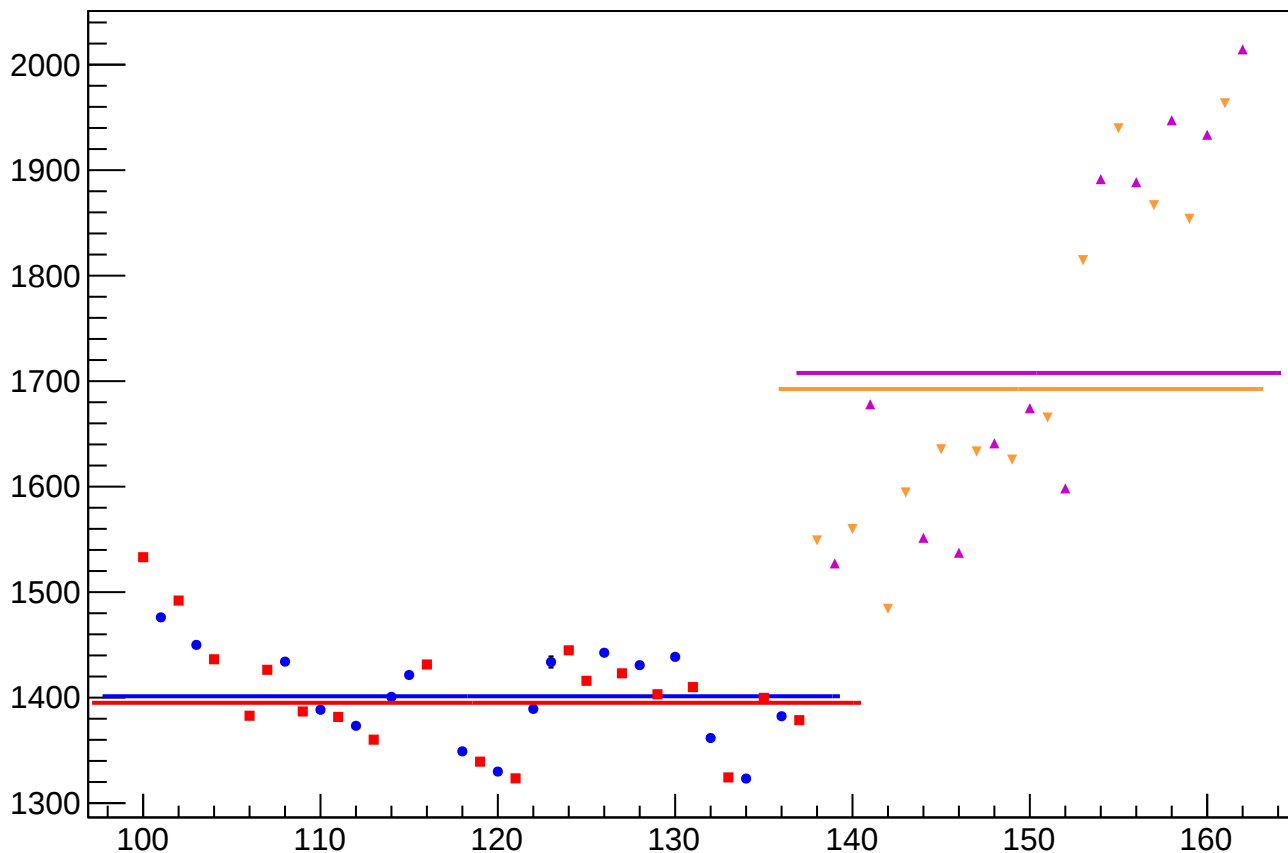
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -7.323 ± 0.386 χ^2/NDF : 13510.1/28

Out: -2.894 ± 0.376 χ^2/NDF : 2348.0/31

All: -5.054 ± 0.269 χ^2/NDF : 15925.7/60

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 ± 0.382 $\chi^2/\text{NDF}: 12852.1/16$

Left Out: 1692.562 ± 0.384 $\chi^2/\text{NDF}: 142745.1/12$

Right Out: 1395.105 ± 0.369 $\chi^2/\text{NDF}: 15520.0/18$

Left In: 1707.763 ± 0.390 $\chi^2/\text{NDF}: 180412.3/11$

Left: 1700.052 ± 0.274 $\chi^2/\text{NDF}: 323928.9/24$

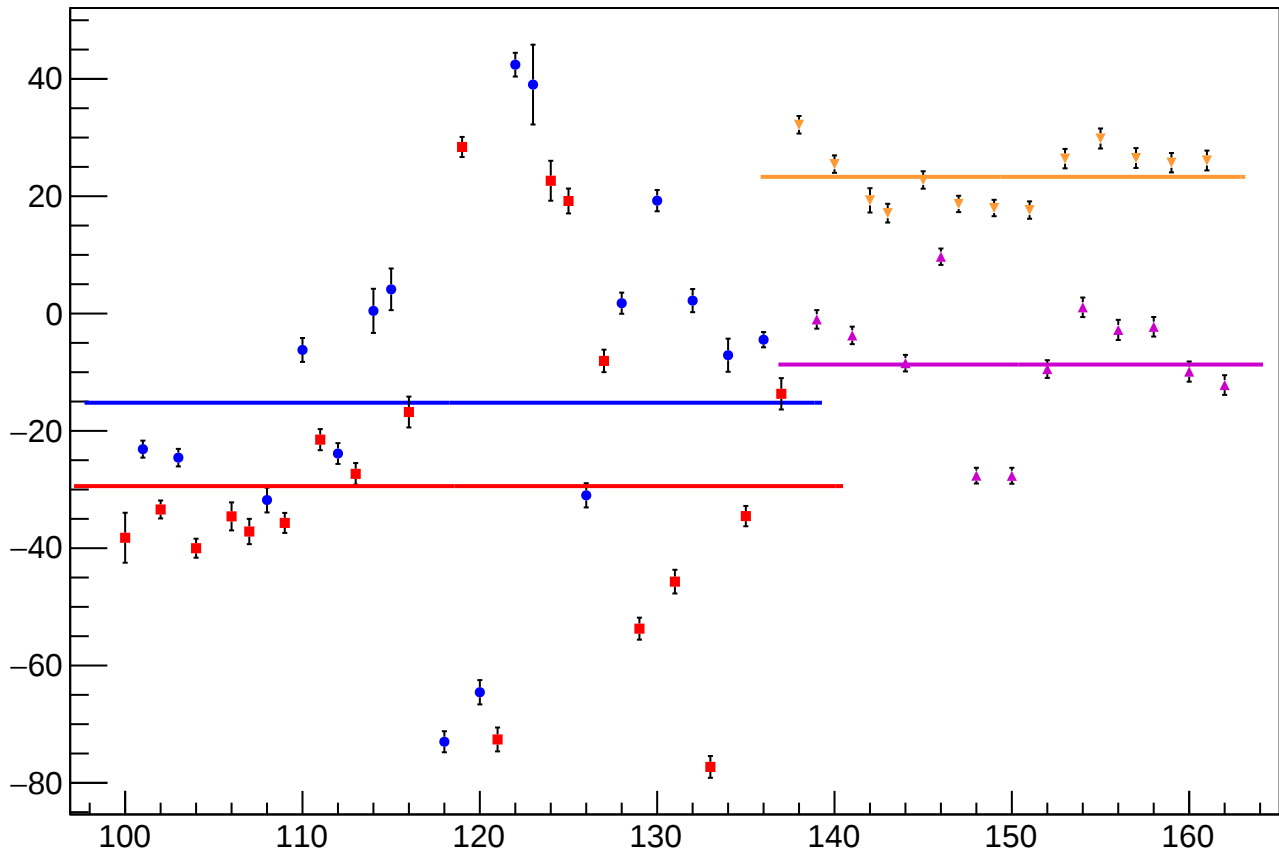
Right: 1398.102 ± 0.265 $\chi^2/\text{NDF}: 28508.5/35$

In: 1551.290 ± 0.273 $\chi^2/\text{NDF}: 508868.9/28$

Out: 1537.846 ± 0.266 $\chi^2/\text{NDF}: 470133.0/31$

All: 1544.404 ± 0.190 $\chi^2/\text{NDF}: 980247.0/60$

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 23.302 ± 0.437 χ^2/NDF : 122.8/12

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: -8.692 ± 0.440 χ^2/NDF : 668.9/11

Left: 7.422 ± 0.310 χ^2/NDF : 3449.9/24

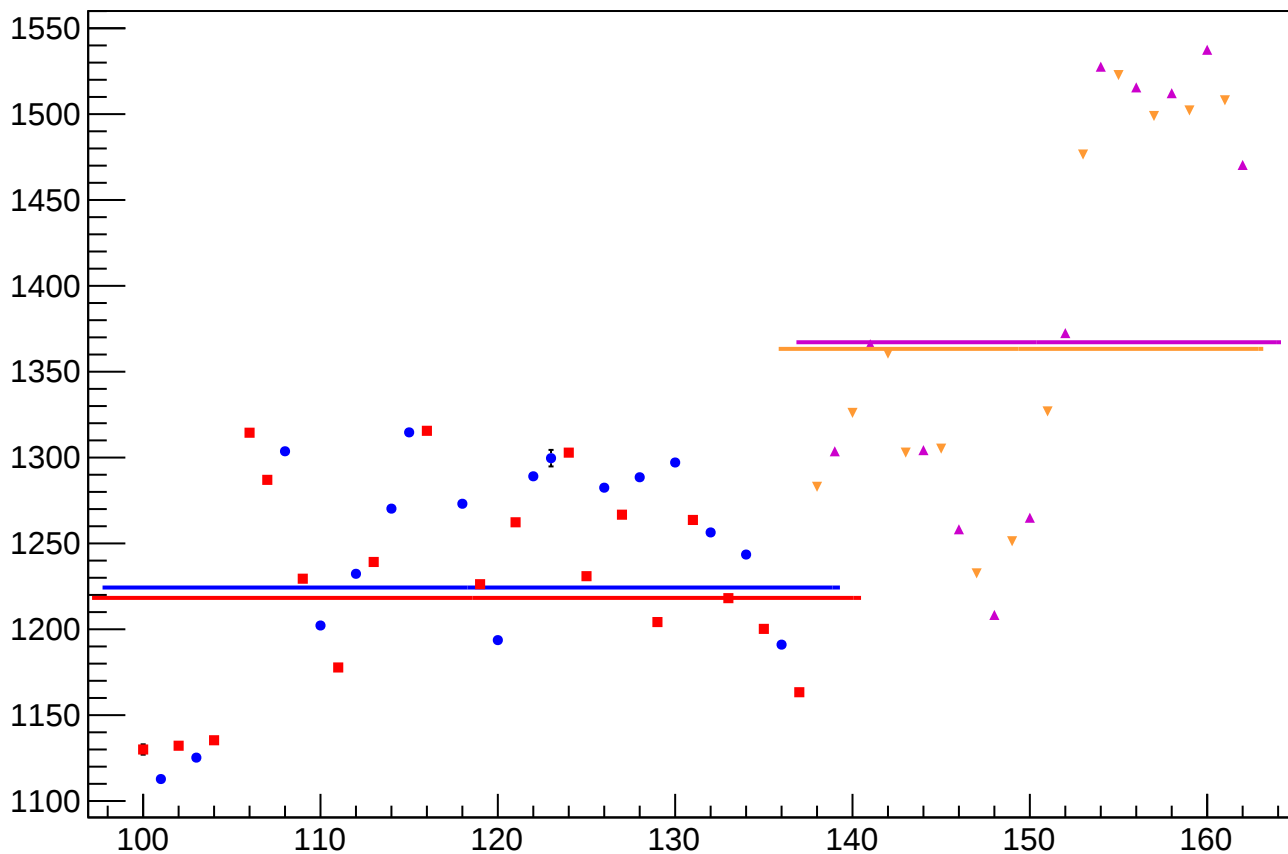
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -11.721 ± 0.322 χ^2/NDF : 4133.1/28

Out: -1.938 ± 0.316 χ^2/NDF : 10629.1/31

All: -6.731 ± 0.225 χ^2/NDF : 15232.9/60

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1363.294+/-0.309 χ^2/NDF : 113007.0/12

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1367.158+/-0.311 χ^2/NDF : 134682.2/11

Left: 1365.212+/-0.219 χ^2/NDF : 247766.8/24

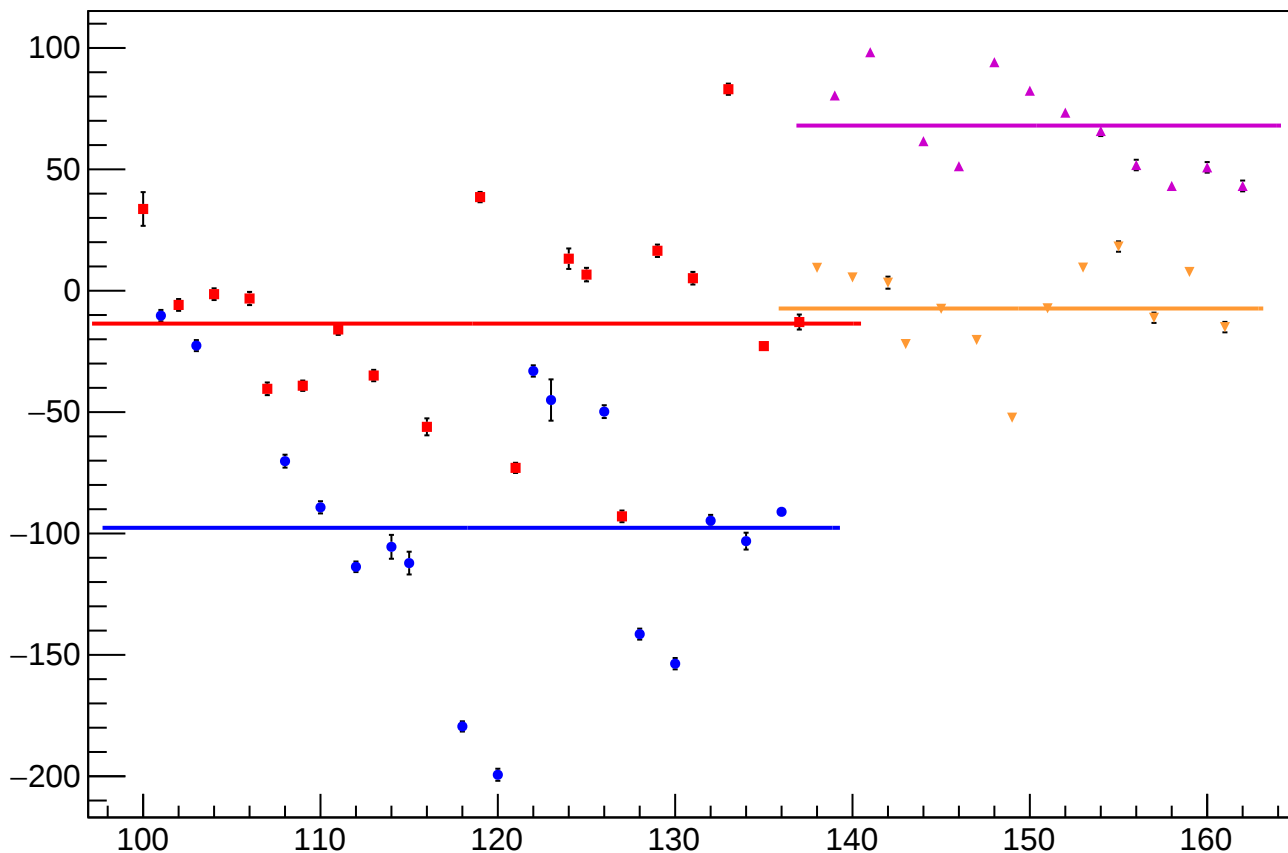
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1300.697+/-0.228 χ^2/NDF : 271352.1/28

Out: 1293.865+/-0.223 χ^2/NDF : 245925.5/31

All: 1297.213+/-0.159 χ^2/NDF : 517736.8/60

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 $\pm$ 0.601 χ^2/NDF : 7936.6/16

Left Out: -7.321 $\pm$ 0.546 χ^2/NDF : 1142.7/12

Right Out: -13.538 $\pm$ 0.579 χ^2/NDF : 5128.2/18

Left In: 68.036 $\pm$ 0.555 χ^2/NDF : 1087.1/11

Left: 29.738 $\pm$ 0.389 χ^2/NDF : 11586.0/24

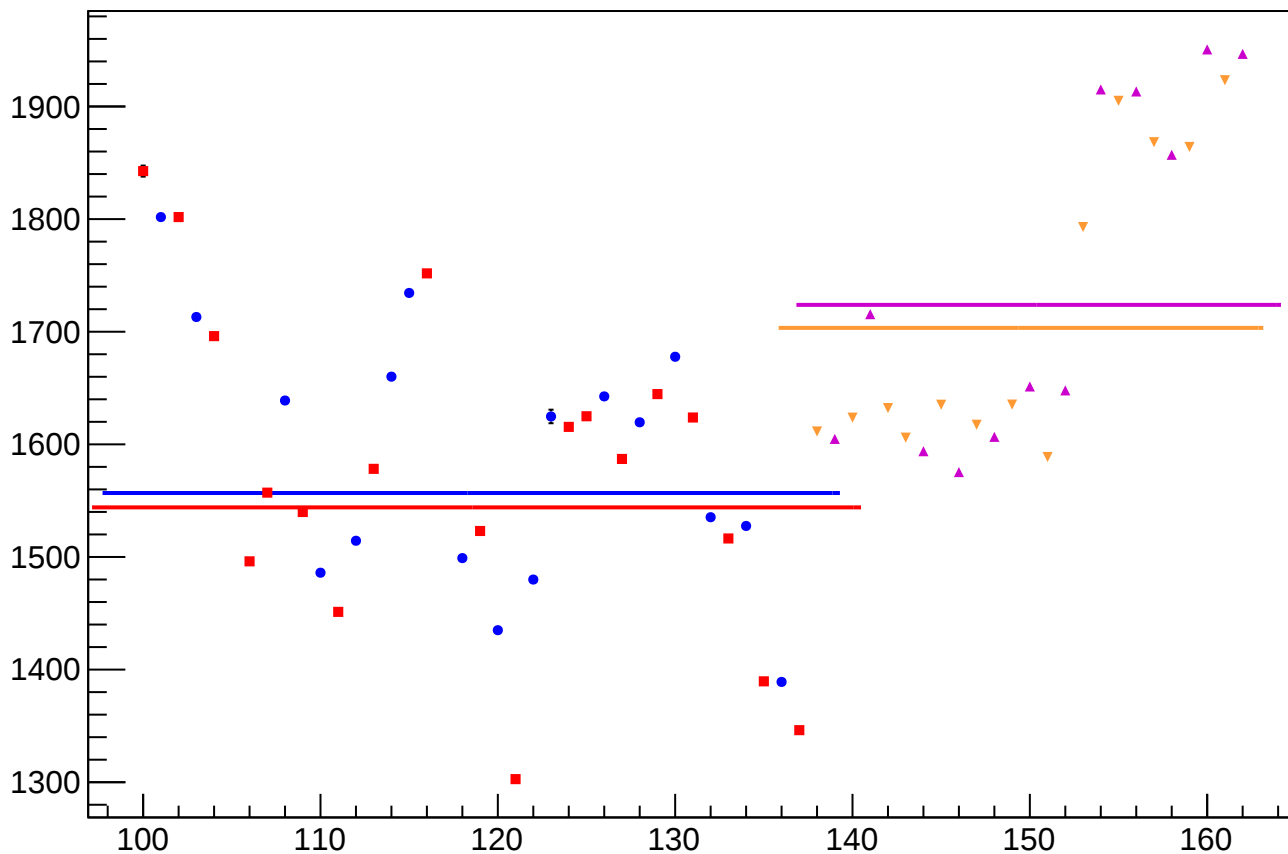
Right: -54.035 $\pm$ 0.417 χ^2/NDF : 23213.1/35

In: -8.242 $\pm$ 0.408 χ^2/NDF : 49997.3/28

Out: -10.247 $\pm$ 0.397 χ^2/NDF : 6331.9/31

All: -9.271 $\pm$ 0.285 χ^2/NDF : 56341.6/60

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1703.421 $\pm$ 0.386 χ^2 /NDF:100387.1/12

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1723.851 $\pm$ 0.393 χ^2 /NDF:131130.9/11

Left: 1713.468 $\pm$ 0.275 χ^2 /NDF: 232893.3/24

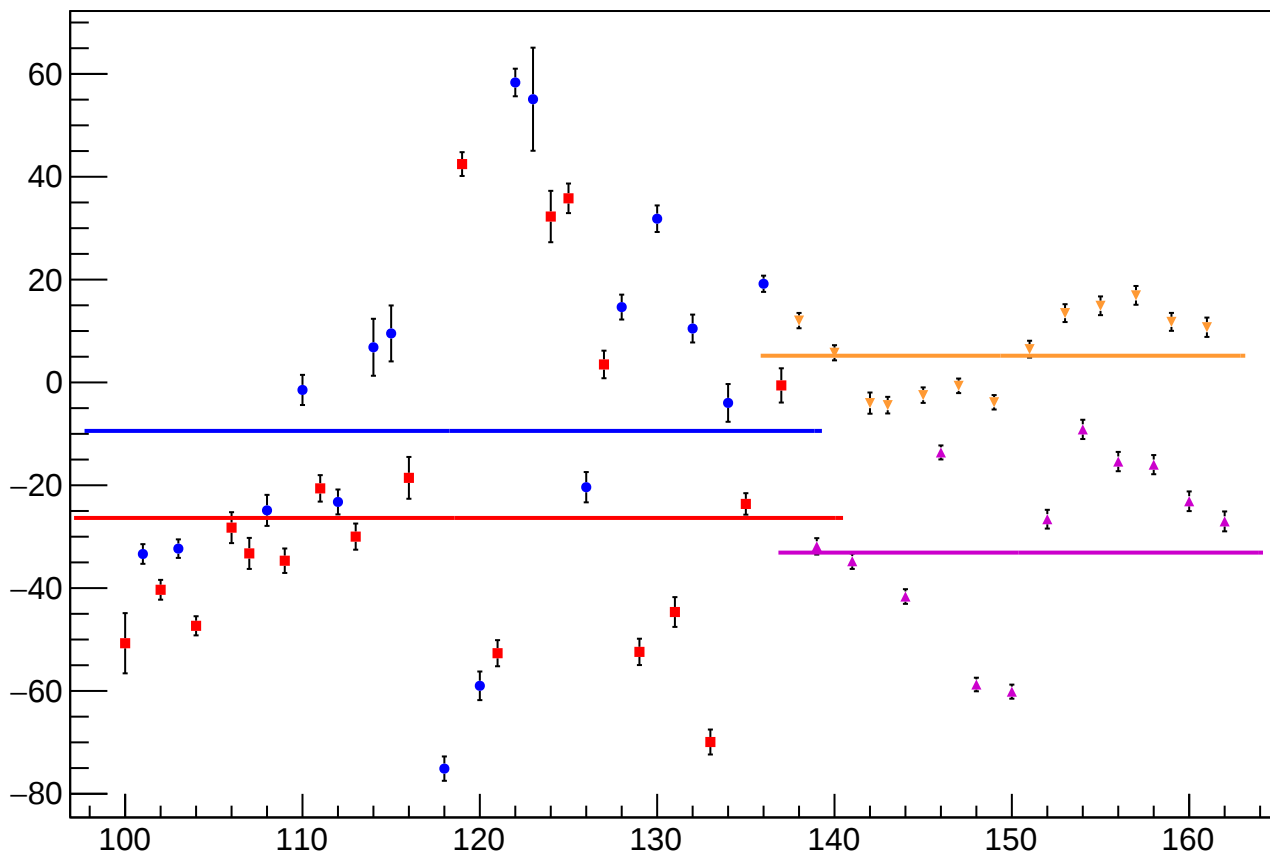
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1646.947 $\pm$ 0.288 χ^2 /NDF:295976.5/28

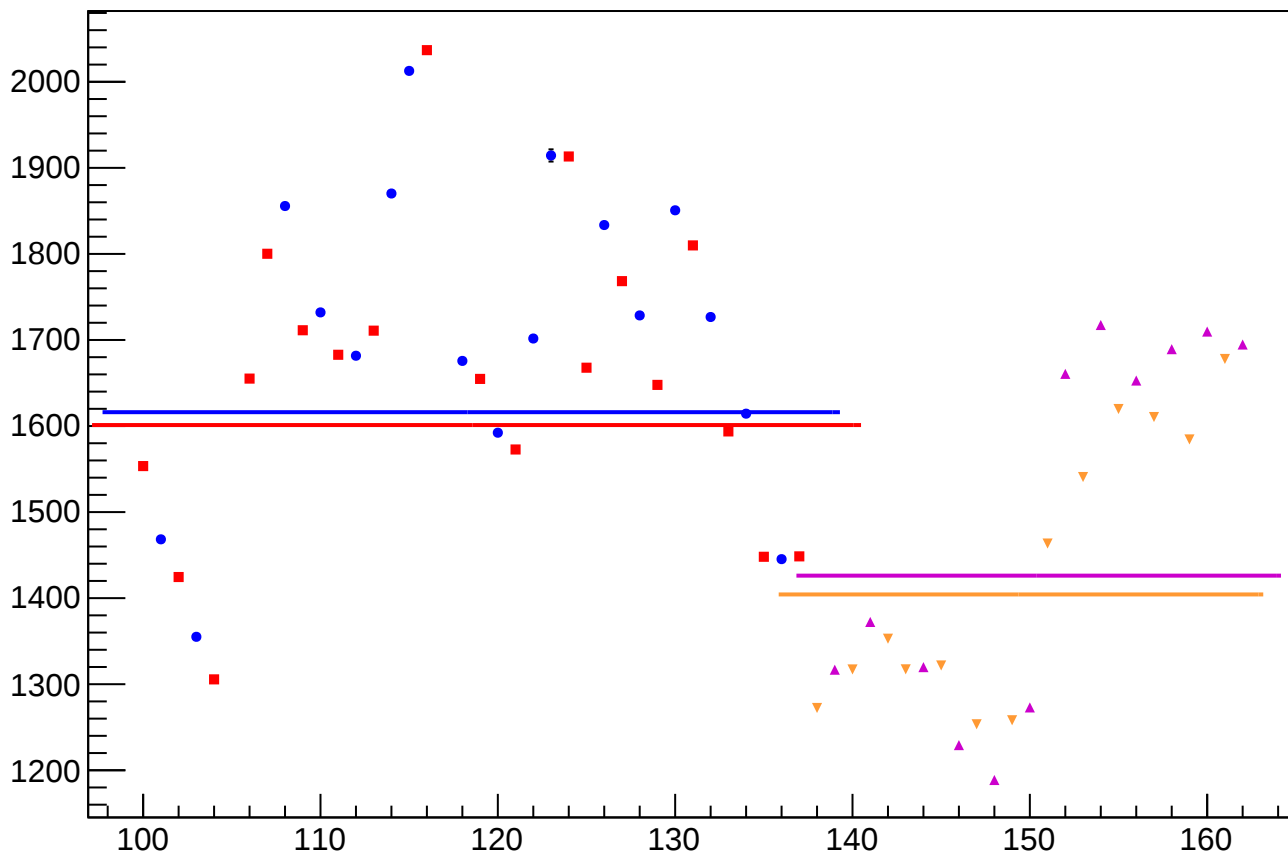
Out: 1628.401 $\pm$ 0.281 χ^2 /NDF:281008.6/31

All: 1637.432 $\pm$ 0.201 χ^2 /NDF: 579105.3/60

diff_bpm0i02aY_mean vs Slug, Sign Corrected



diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2/NDF : 149596.3/16

Left Out: 1404.300 $\pm$ 0.320 χ^2/NDF : 212239.8/12

Right Out: 1601.134 $\pm$ 0.426 χ^2/NDF : 153651.5/18

Left In: 1426.151 $\pm$ 0.327 χ^2/NDF : 387303.2/11

Left: 1414.972 $\pm$ 0.229 χ^2/NDF : 601824.6/24

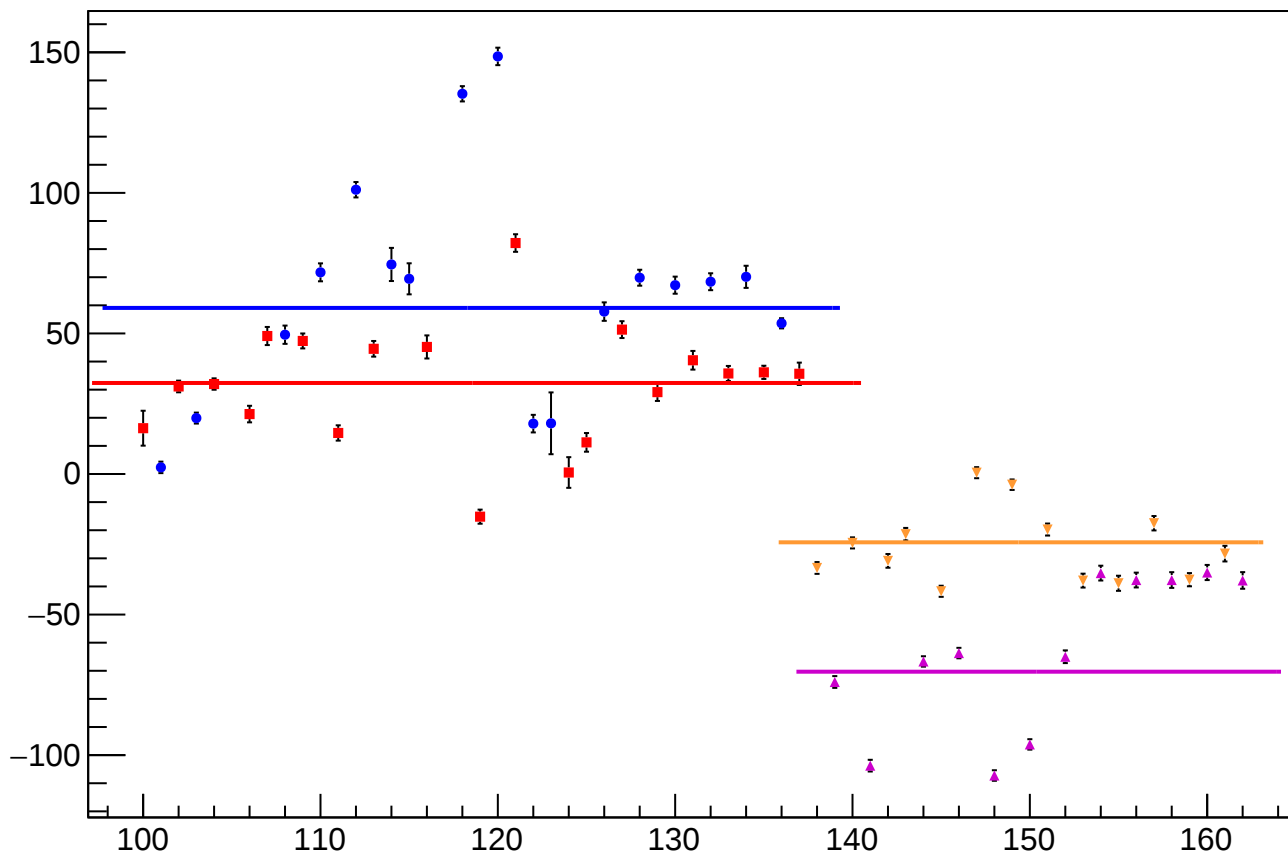
Right: 1608.326 $\pm$ 0.307 χ^2/NDF : 303840.0/35

In: 1493.200 $\pm$ 0.263 χ^2/NDF : 655860.7/28

Out: 1475.161 $\pm$ 0.256 χ^2/NDF : 502372.4/31

All: 1483.922 $\pm$ 0.183 χ^2/NDF : 1160649.3/60

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -24.299 ± 0.616 χ^2/NDF : 489.3/12

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -70.323 ± 0.635 χ^2/NDF : 1623.1/11

Left: -46.606 ± 0.442 χ^2/NDF : 4817.7/24

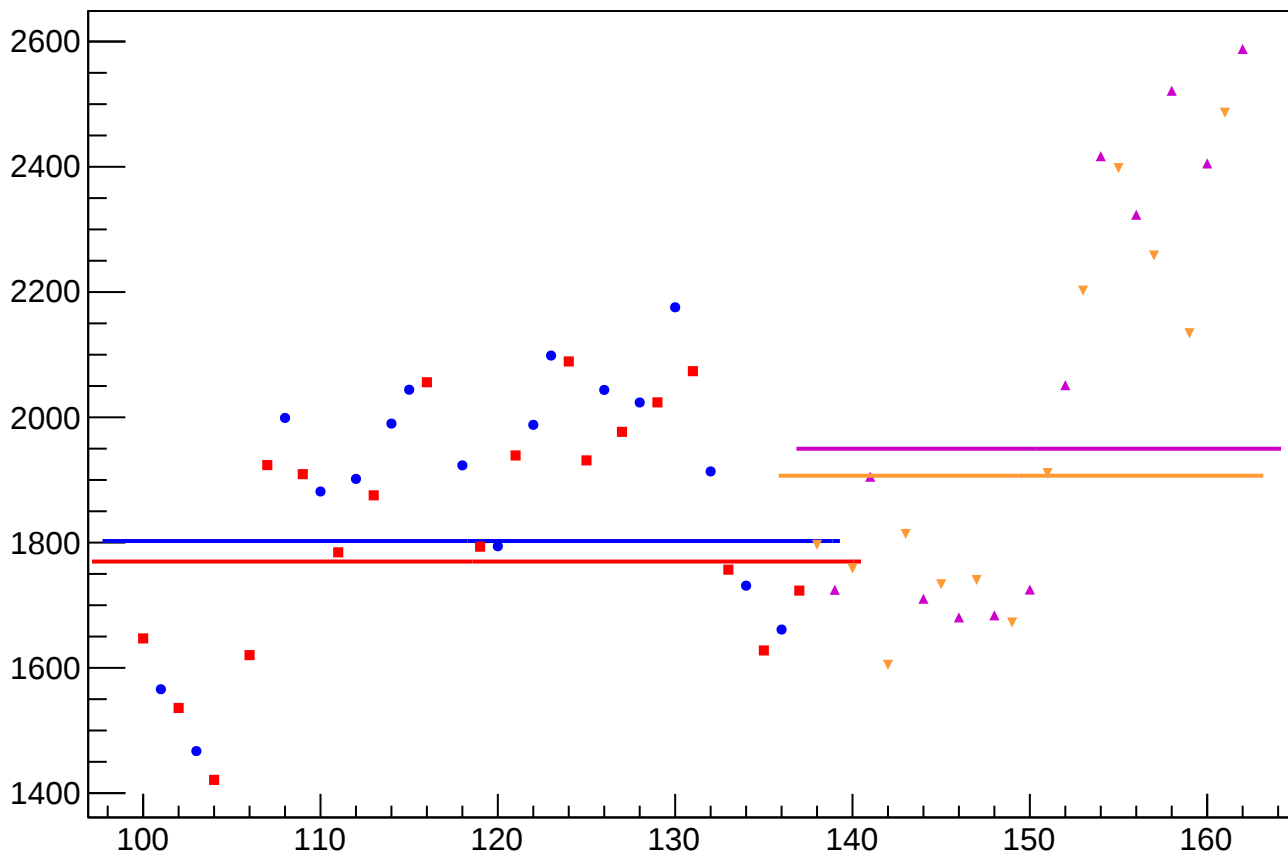
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -11.836 ± 0.470 χ^2/NDF : 23674.3/28

Out: 1.816 ± 0.452 χ^2/NDF : 5281.1/31

All: -4.746 ± 0.326 χ^2/NDF : 29393.1/60

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1906.802+/-0.436 χ^2/NDF : 350132.5/12

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 1949.849+/-0.449 χ^2/NDF : 510282.6/11

Left: 1927.666+/-0.313 χ^2/NDF : 865148.2/24

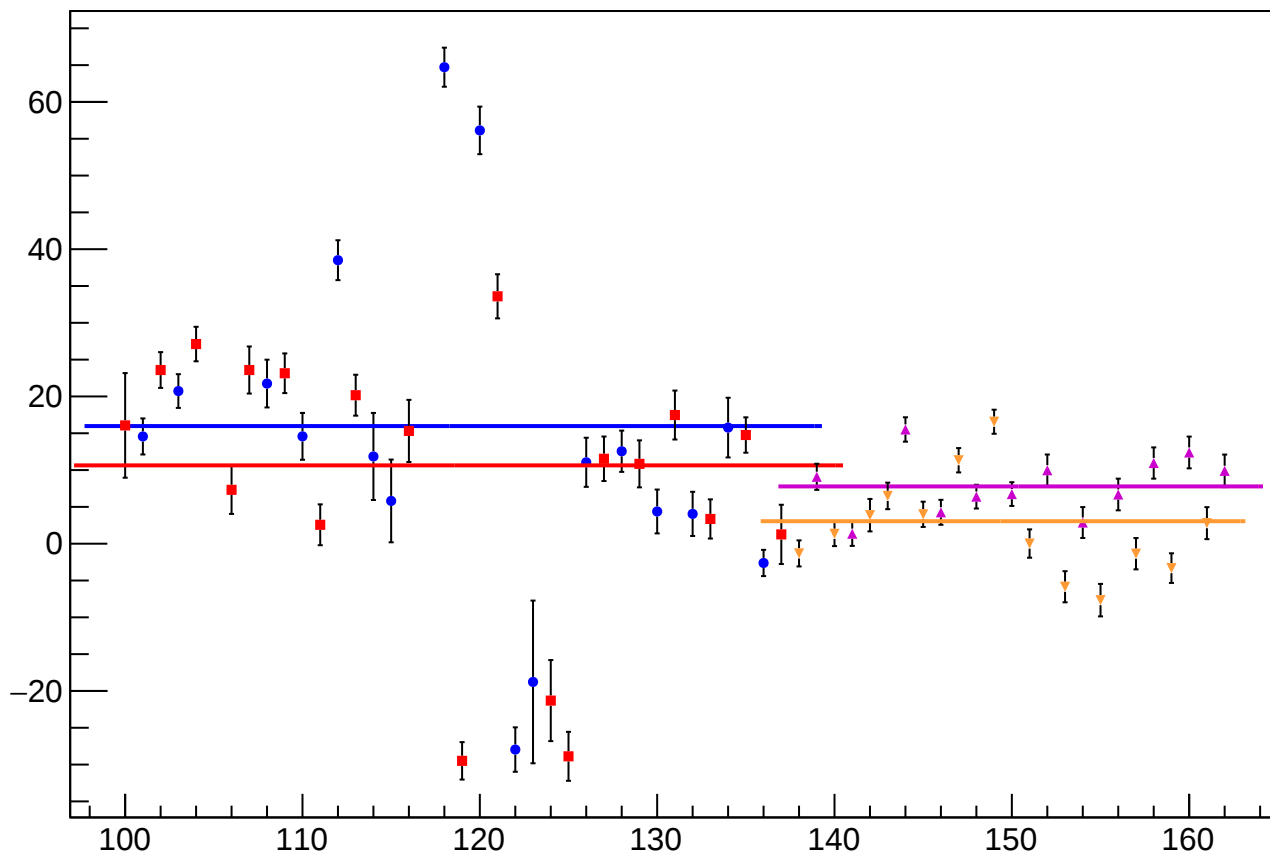
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1883.262+/-0.333 χ^2/NDF : 742976.5/28

Out: 1843.668+/-0.320 χ^2/NDF : 573617.4/31

All: 1862.699+/-0.231 χ^2/NDF : 1323957.8/60

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 χ^2/NDF : 938.4/16

Left Out: 3.056 ± 0.524 χ^2/NDF : 162.7/12

Right Out: 10.638 ± 0.693 χ^2/NDF : 642.1/18

Left In: 7.780 ± 0.537 χ^2/NDF : 57.4/11

Left: 5.358 ± 0.375 χ^2/NDF : 259.8/24

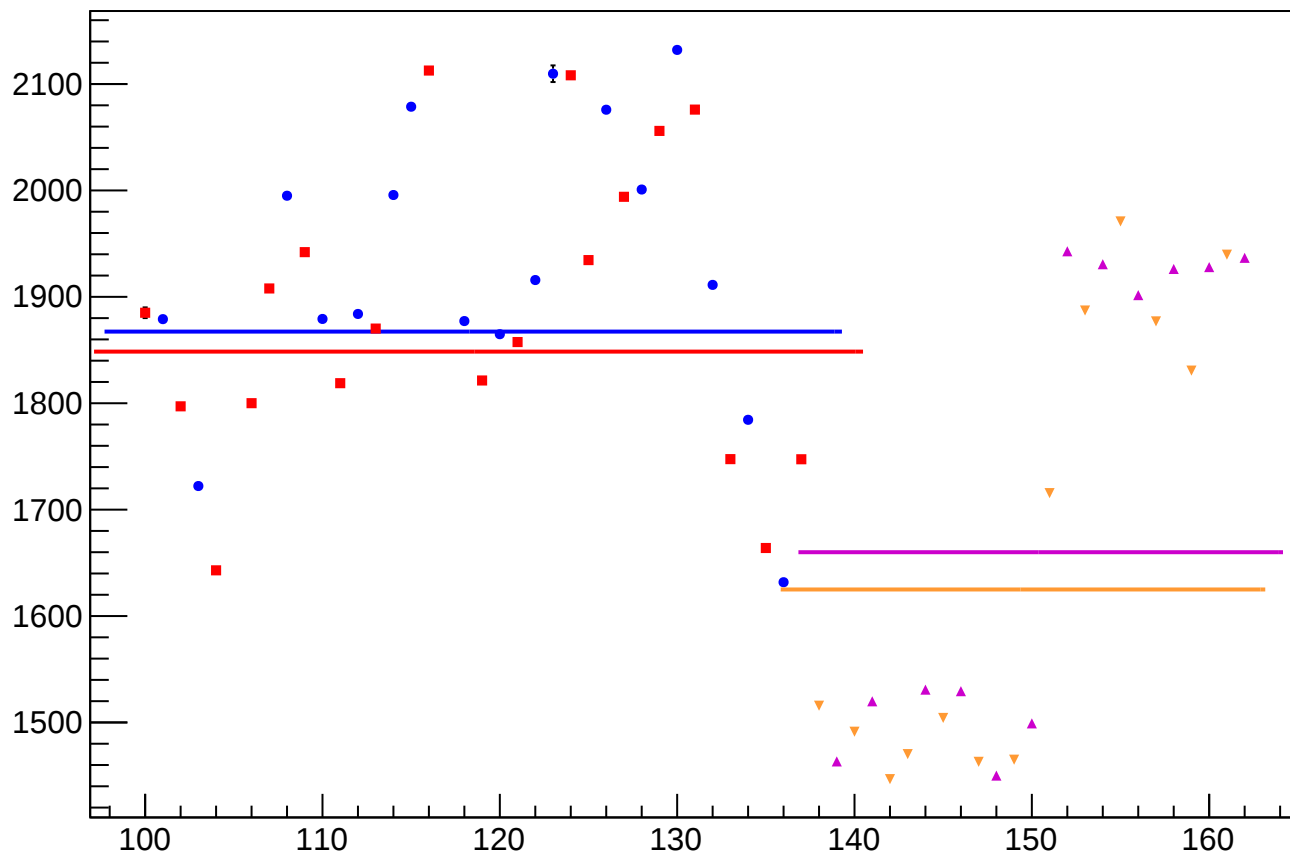
Right: 13.200 ± 0.500 χ^2/NDF : 1608.9/35

In: 10.701 ± 0.431 χ^2/NDF : 1078.8/28

Out: 5.809 ± 0.418 χ^2/NDF : 881.0/31

All: 8.180 ± 0.300 χ^2/NDF : 2026.2/60

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1624.973 $\pm$ 0.370 χ^2 /NDF: 271658.3/12

Right Out: 1848.532 $\pm$ 0.490 χ^2 /NDF: 72527.3/18

Left In: 1659.998 $\pm$ 0.380 χ^2 /NDF: 303930.6/11

Left: 1642.041 $\pm$ 0.265 χ^2 /NDF: 579951.6/24

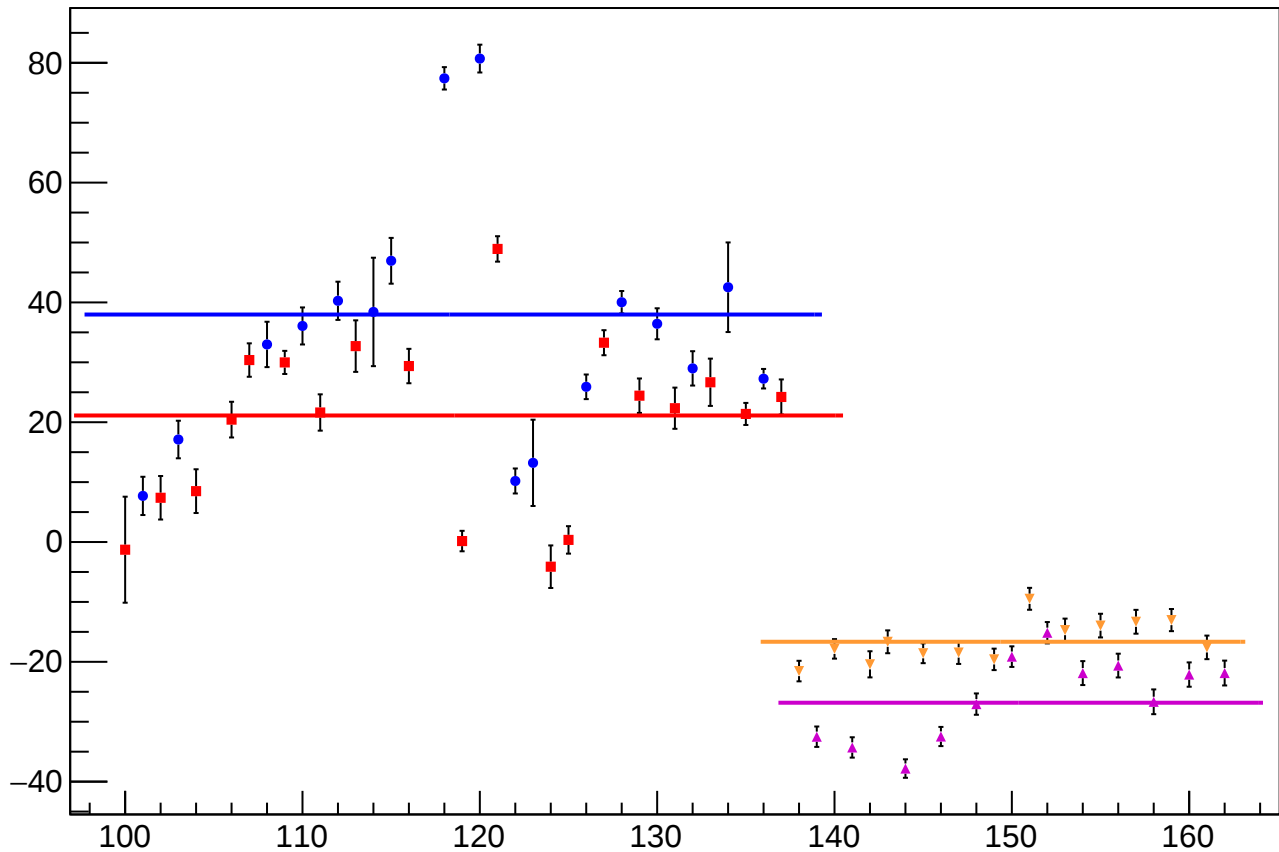
Right: 1857.561 $\pm$ 0.354 χ^2 /NDF: 154160.4/35

In: 1733.893 $\pm$ 0.305 χ^2 /NDF: 491129.4/28

Out: 1706.146 $\pm$ 0.295 χ^2 /NDF: 476616.3/31

All: 1719.594 $\pm$ 0.212 χ^2 /NDF: 972021.1/60

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -16.650 ± 0.514 $\chi^2/\text{NDF}: 41.7/12$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -26.829 ± 0.521 $\chi^2/\text{NDF}: 183.5/11$

Left: -21.670 ± 0.366 $\chi^2/\text{NDF}: 418.6/24$

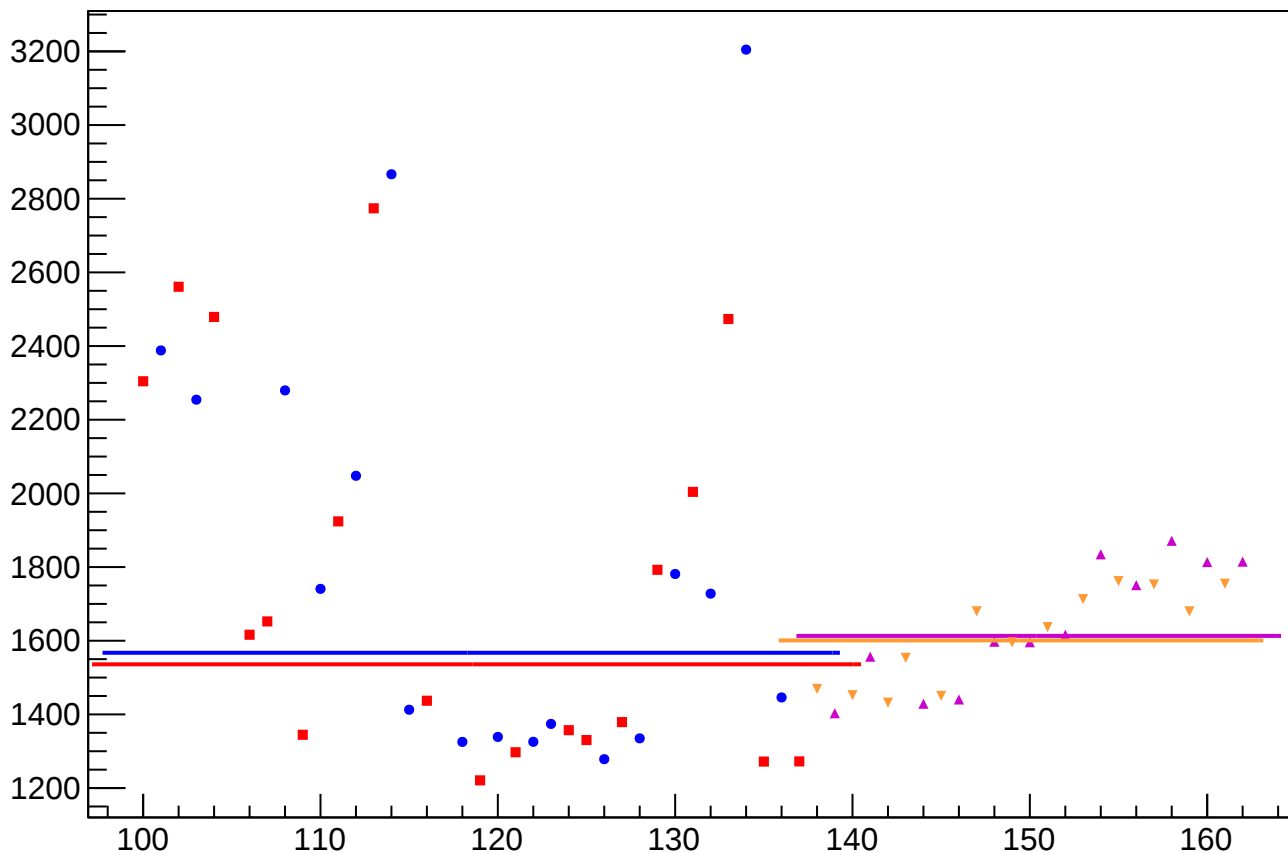
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -0.867 ± 0.403 $\chi^2/\text{NDF}: 7584.9/28$

Out: -0.915 ± 0.393 $\chi^2/\text{NDF}: 2864.9/31$

All: -0.892 ± 0.281 $\chi^2/\text{NDF}: 10449.9/60$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2/NDF : 673450.6/16

Left Out: 1600.776 $\pm$ 0.363 χ^2/NDF : 110102.1/12

Right Out: 1535.967 $\pm$ 0.430 χ^2/NDF : 882098.2/18

Left In: 1613.122 $\pm$ 0.368 χ^2/NDF : 188511.8/11

Left: 1606.865 $\pm$ 0.259 χ^2/NDF : 299183.0/24

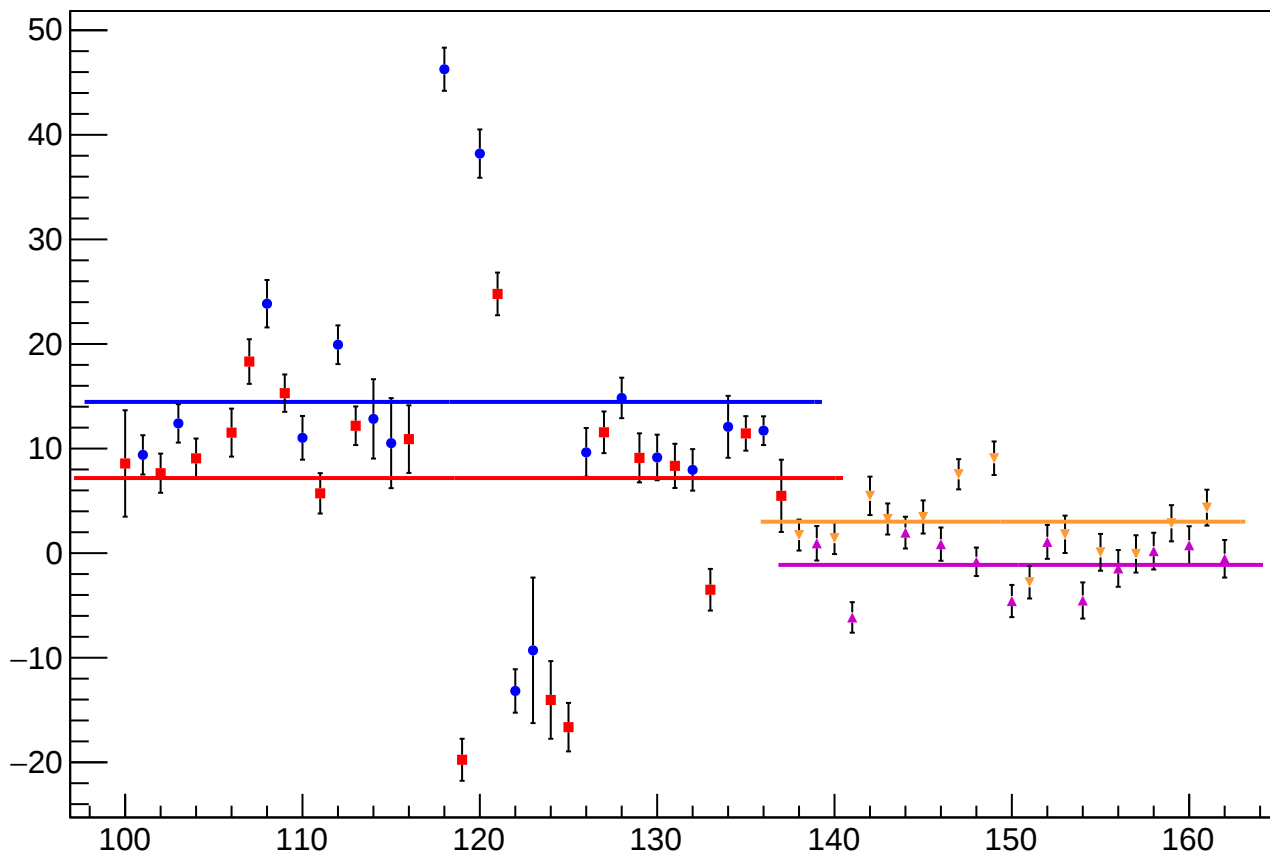
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1594.777 $\pm$ 0.285 χ^2/NDF : 868151.0/28

Out: 1573.781 $\pm$ 0.278 χ^2/NDF : 1005444.2/31

All: 1583.995 $\pm$ 0.199 χ^2/NDF : 1876377.6/60

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 3.008 ± 0.450 $\chi^2/\text{NDF}: 48.6/12$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -1.123 ± 0.466 $\chi^2/\text{NDF}: 31.7/11$

Left: 1.015 ± 0.324 $\chi^2/\text{NDF}: 121.0/24$

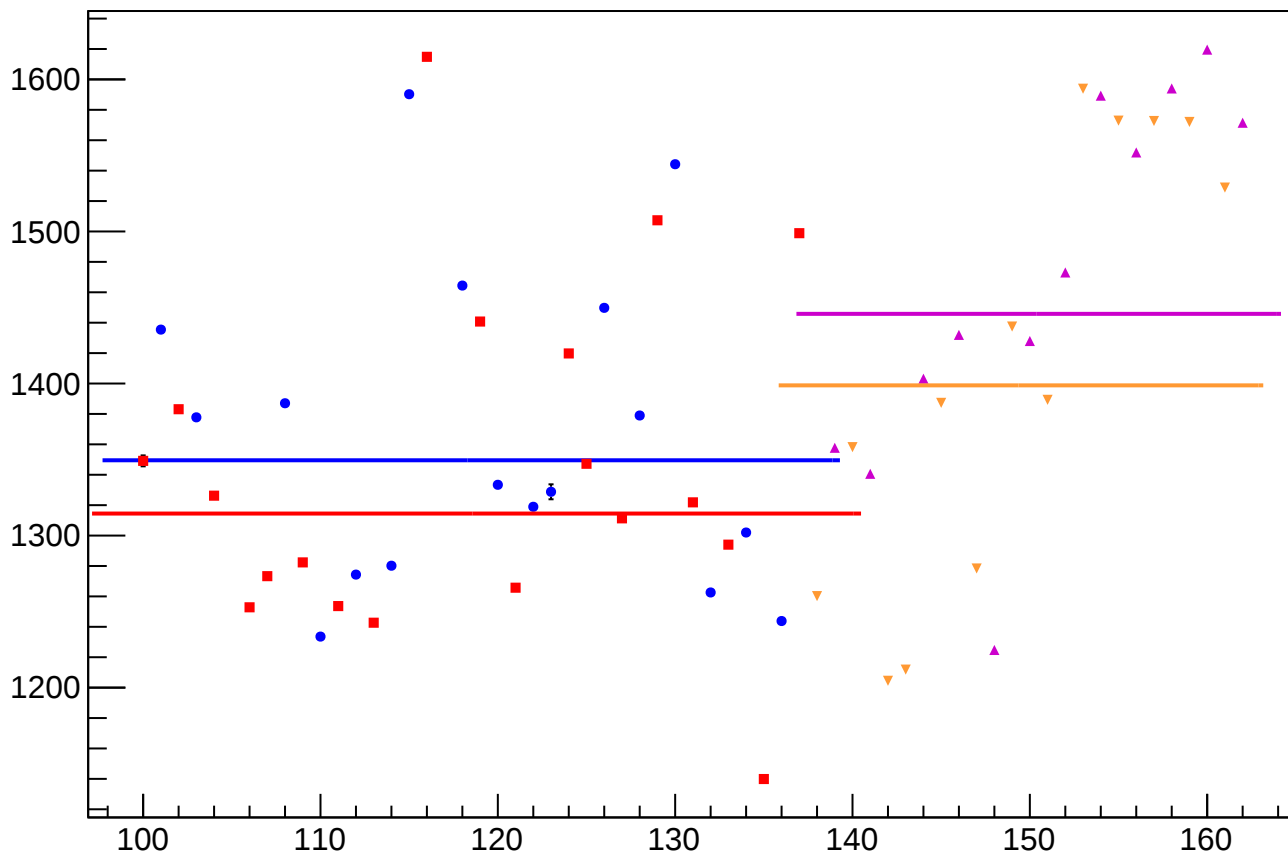
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 5.770 ± 0.348 $\chi^2/\text{NDF}: 1122.4/28$

Out: 4.899 ± 0.333 $\chi^2/\text{NDF}: 583.3/31$

All: 5.315 ± 0.240 $\chi^2/\text{NDF}: 1708.9/60$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 +/- 0.370 χ^2/NDF : 64667.6/16

Left Out: 1398.790 +/- 0.318 χ^2/NDF : 182116.2/12

Right Out: 1314.485 +/- 0.350 χ^2/NDF : 80952.7/18

Left In: 1445.818 +/- 0.329 χ^2/NDF : 134845.1/11

Left: 1421.480 +/- 0.229 χ^2/NDF : 327504.6/24

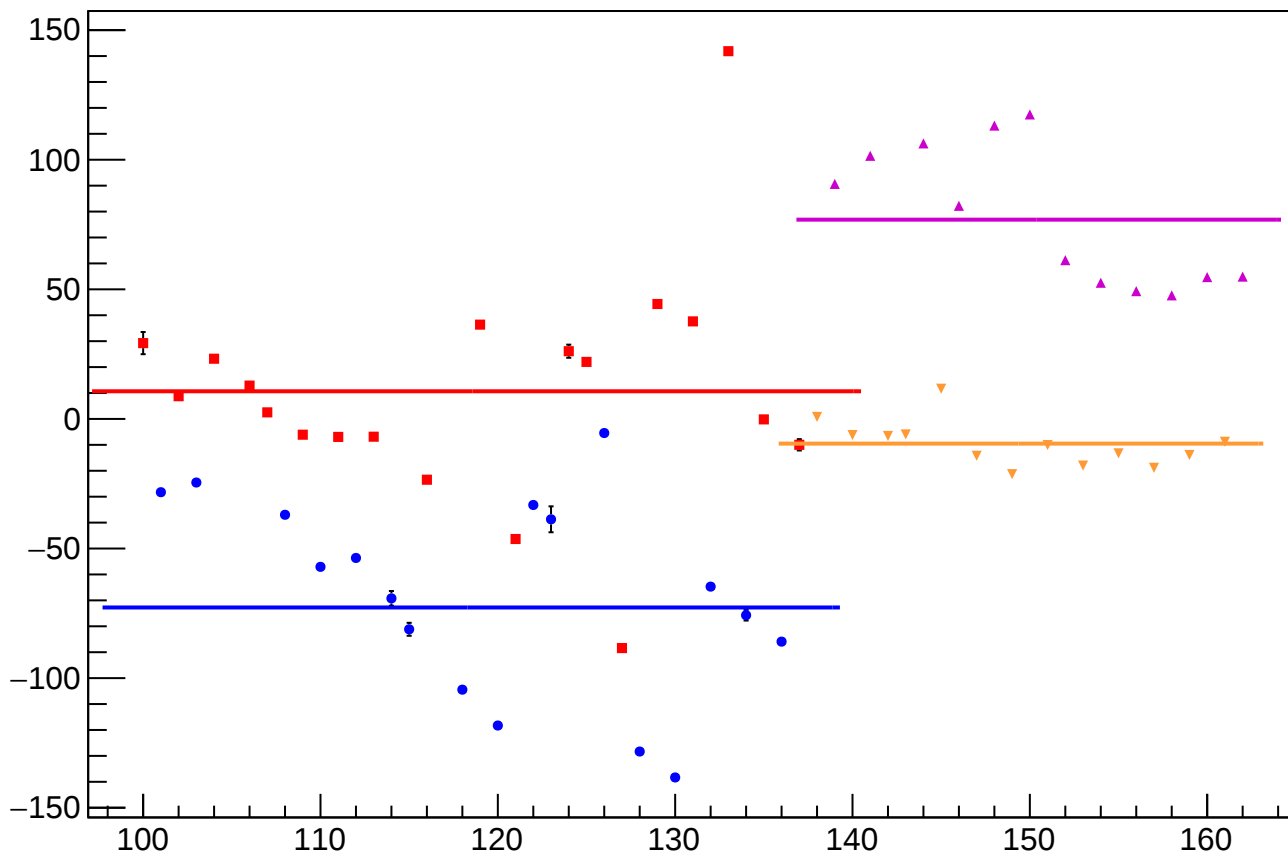
Right: 1331.011 +/- 0.254 χ^2/NDF : 150358.7/35

In: 1403.224 +/- 0.246 χ^2/NDF : 237294.7/28

Out: 1360.598 +/- 0.235 χ^2/NDF : 294882.0/31

All: 1380.958 +/- 0.170 χ^2/NDF : 547853.8/60

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741±/0.362 χ^2 /NDF: 11690.4/16

Left Out: -9.521±/0.301 χ^2 /NDF:803.4/12

Right Out: 10.671±/0.352 χ^2 /NDF: 18171.0/18

Left In: 76.880±/0.308 χ^2 /NDF:6790.7/11

Left: 32.723±/0.215 χ^2 /NDF: 47805.4/24

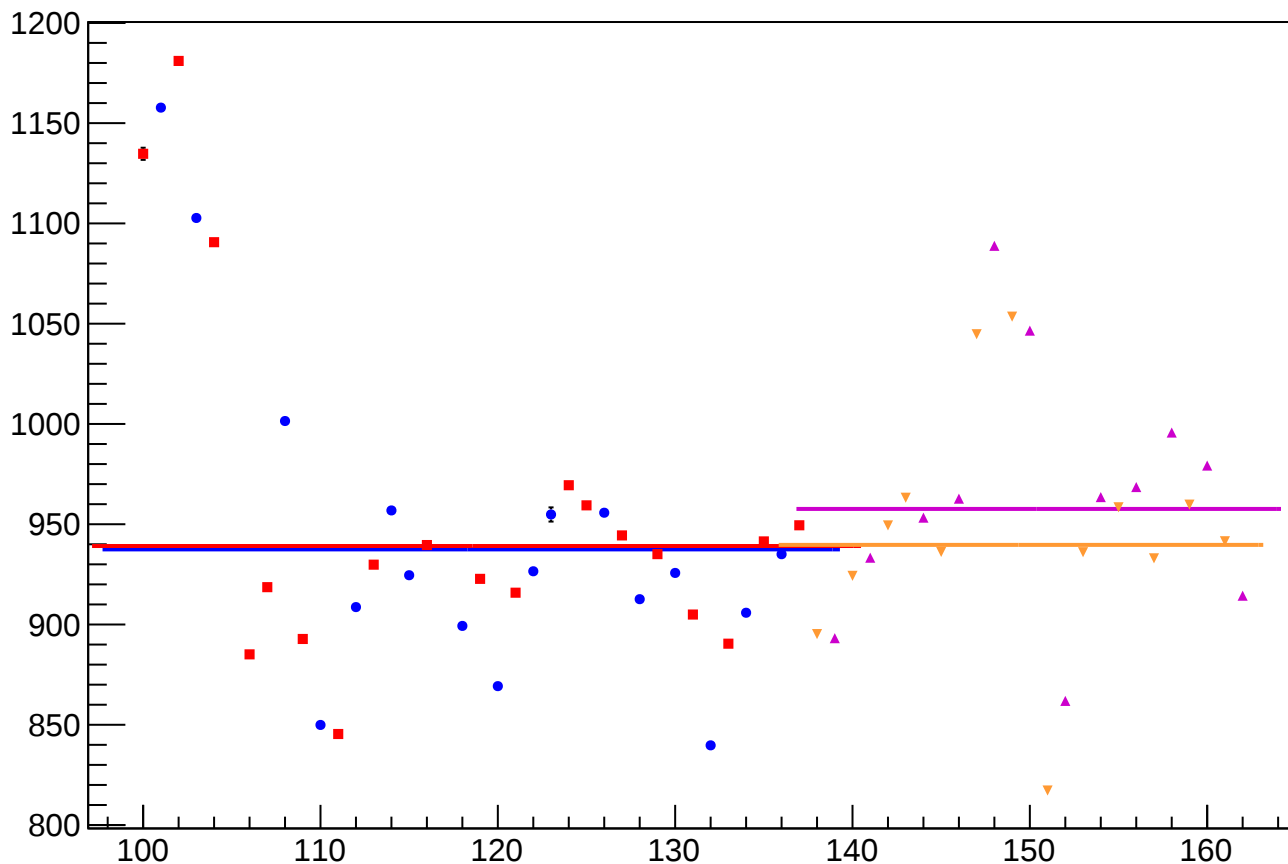
Right: -29.865±/0.253 χ^2 /NDF: 57099.2/35

In: 14.116±/0.235 χ^2 /NDF:117457.4/28

Out: -0.993±/0.229 χ^2 /NDF:20871.6/31

All: 6.376±/0.164 χ^2 /NDF: 140452.4/60

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 939.701 ± 0.213 χ^2/NDF : 77085.2/12

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 957.632 ± 0.218 χ^2/NDF : 71491.2/11

Left: 948.468 ± 0.152 χ^2/NDF : 152040.1/24

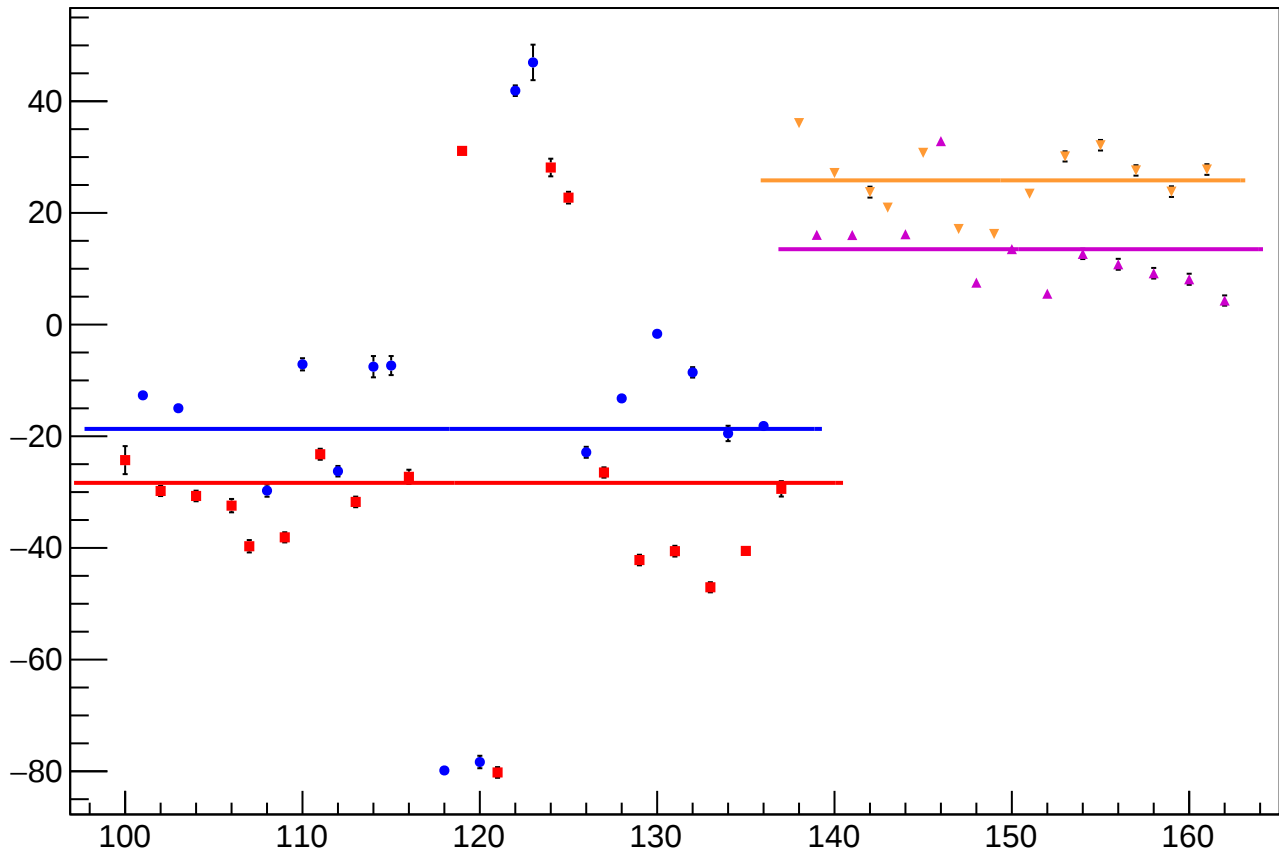
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 949.167 ± 0.166 χ^2/NDF : 173399.2/28

Out: 939.464 ± 0.162 χ^2/NDF : 167341.3/31

All: 944.196 ± 0.116 χ^2/NDF : 342492.1/60

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 25.827 ± 0.229 $\chi^2/\text{NDF}: 648.1/12$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 13.500 ± 0.236 $\chi^2/\text{NDF}: 1010.7/11$

Left: 19.857 ± 0.164 $\chi^2/\text{NDF}: 3066.6/24$

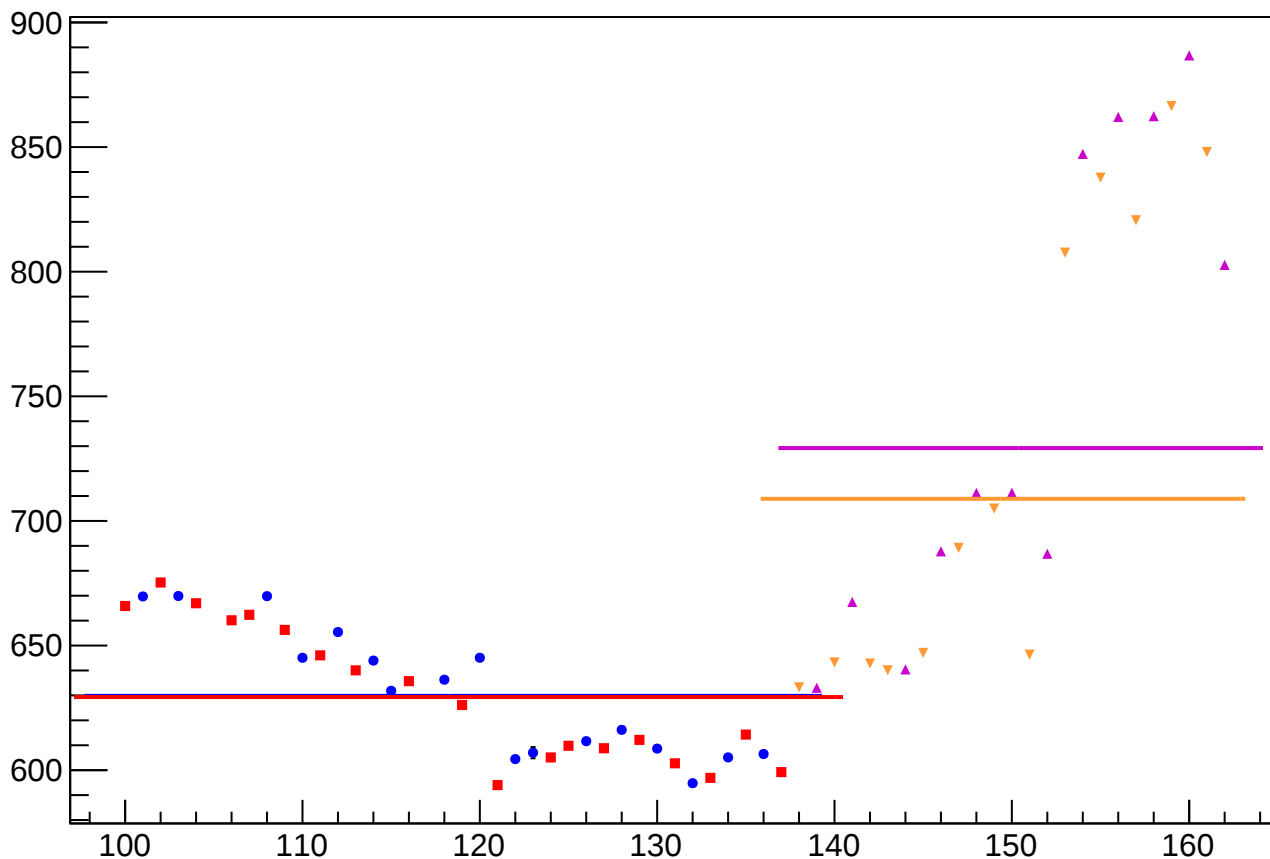
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: -2.140 ± 0.169 $\chi^2/\text{NDF}: 23058.3/28$

Out: -0.464 ± 0.164 $\chi^2/\text{NDF}: 40402.3/31$

All: -1.276 ± 0.118 $\chi^2/\text{NDF}: 63511.2/60$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 708.884+/-0.162 χ^2/NDF : 279184.1/12

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 729.244+/-0.167 χ^2/NDF : 264717.6/11

Left: 718.744+/-0.116 χ^2/NDF : 551581.9/24

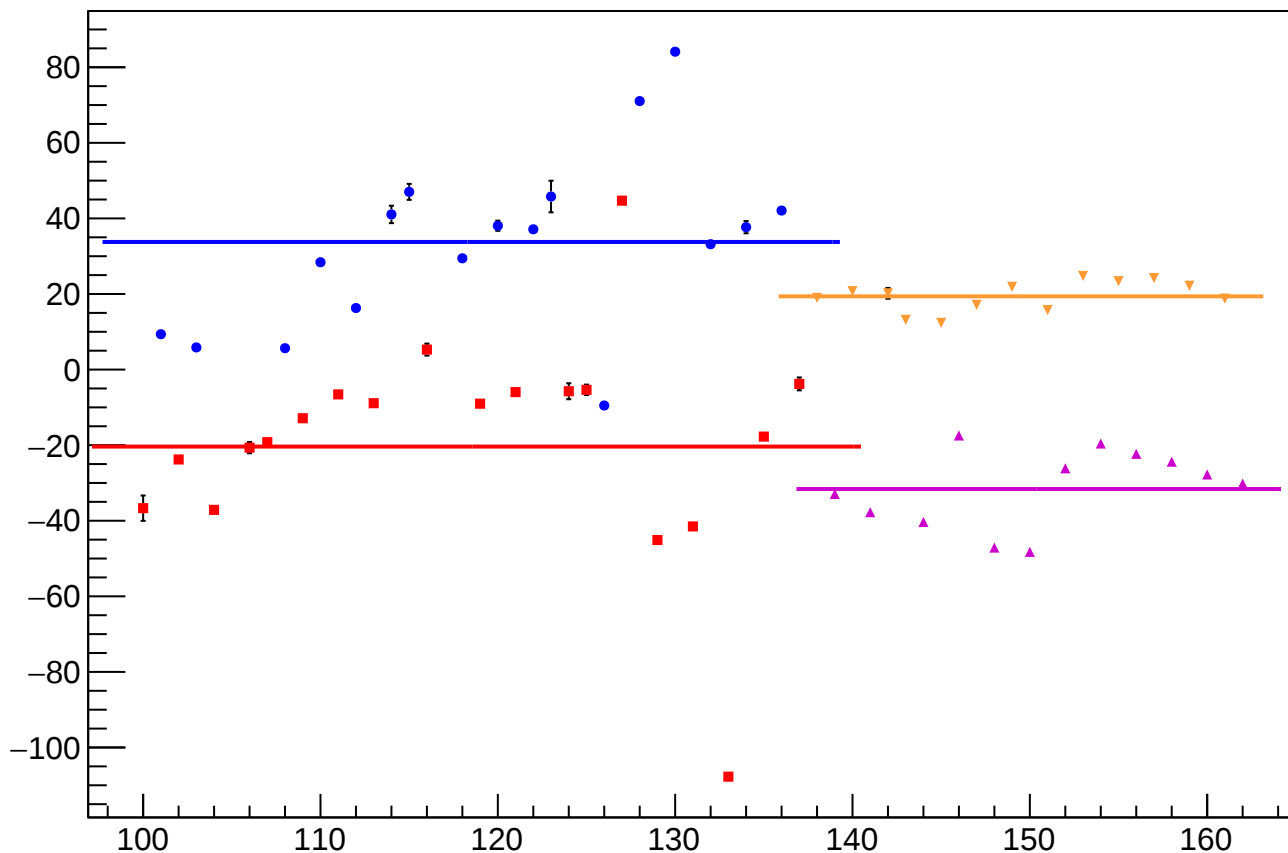
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 680.924+/-0.120 χ^2/NDF : 460618.3/28

Out: 670.281+/-0.116 χ^2/NDF : 422204.7/31

All: 675.438+/-0.083 χ^2/NDF : 886903.3/60

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 19.378+/-0.328 χ^2/NDF :137.2/12

Right Out: -20.375+/-0.293 χ^2/NDF : 11287.7/18

Left In: -31.606+/-0.333 χ^2/NDF :884.7/11

Left: -5.773+/-0.234 χ^2/NDF : 12907.3/24

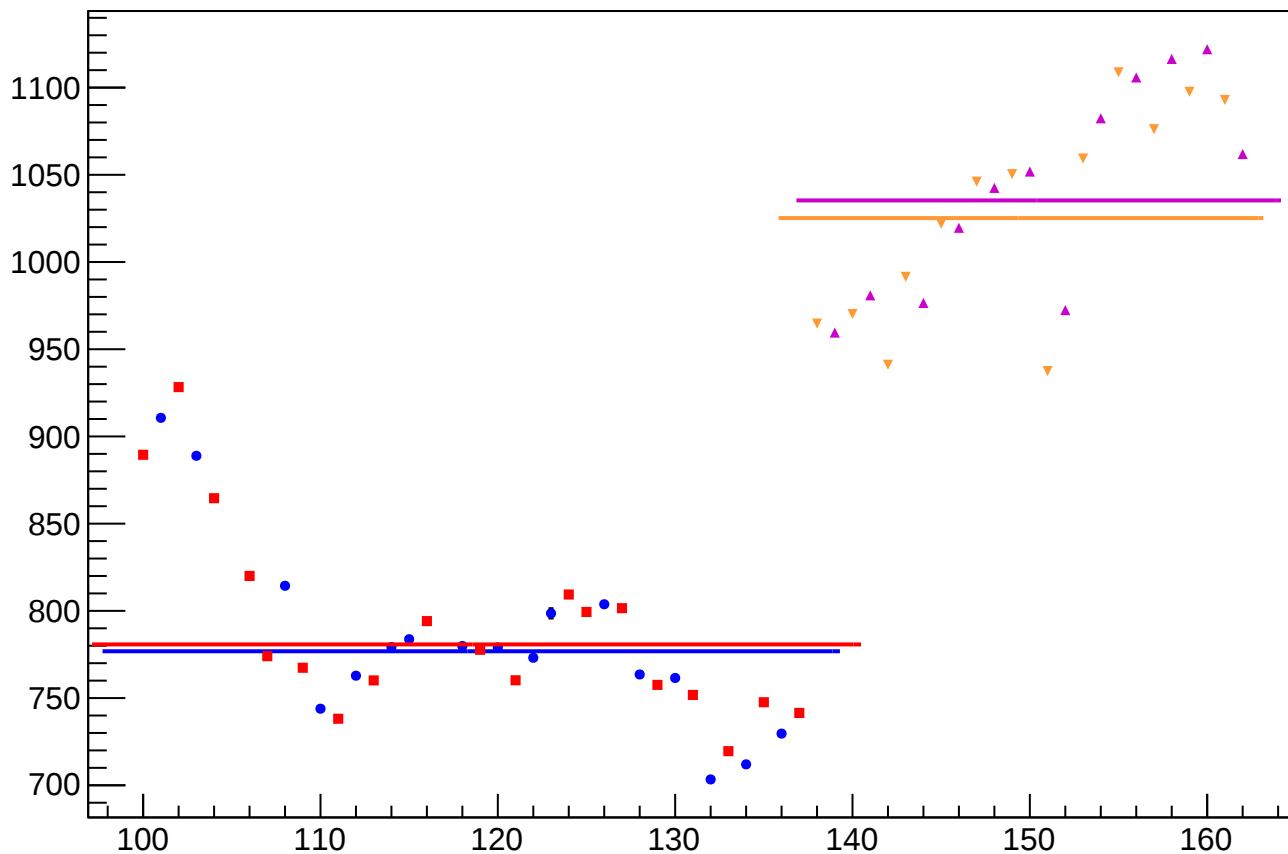
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 4.483+/-0.223 χ^2/NDF :28664.4/28

Out: -2.791+/-0.218 χ^2/NDF :19593.5/31

All: 0.774+/-0.156 χ^2/NDF : 48801.5/60

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2/NDF : 67487.1/16

Left Out: 1025.186 $\pm$ 0.232 χ^2/NDF : 62388.8/12

Right Out: 780.755 $\pm$ 0.207 χ^2/NDF : 57428.9/18

Left In: 1035.316 $\pm$ 0.235 χ^2/NDF : 56373.6/11

Left: 1030.183 $\pm$ 0.165 χ^2/NDF : 119700.7/24

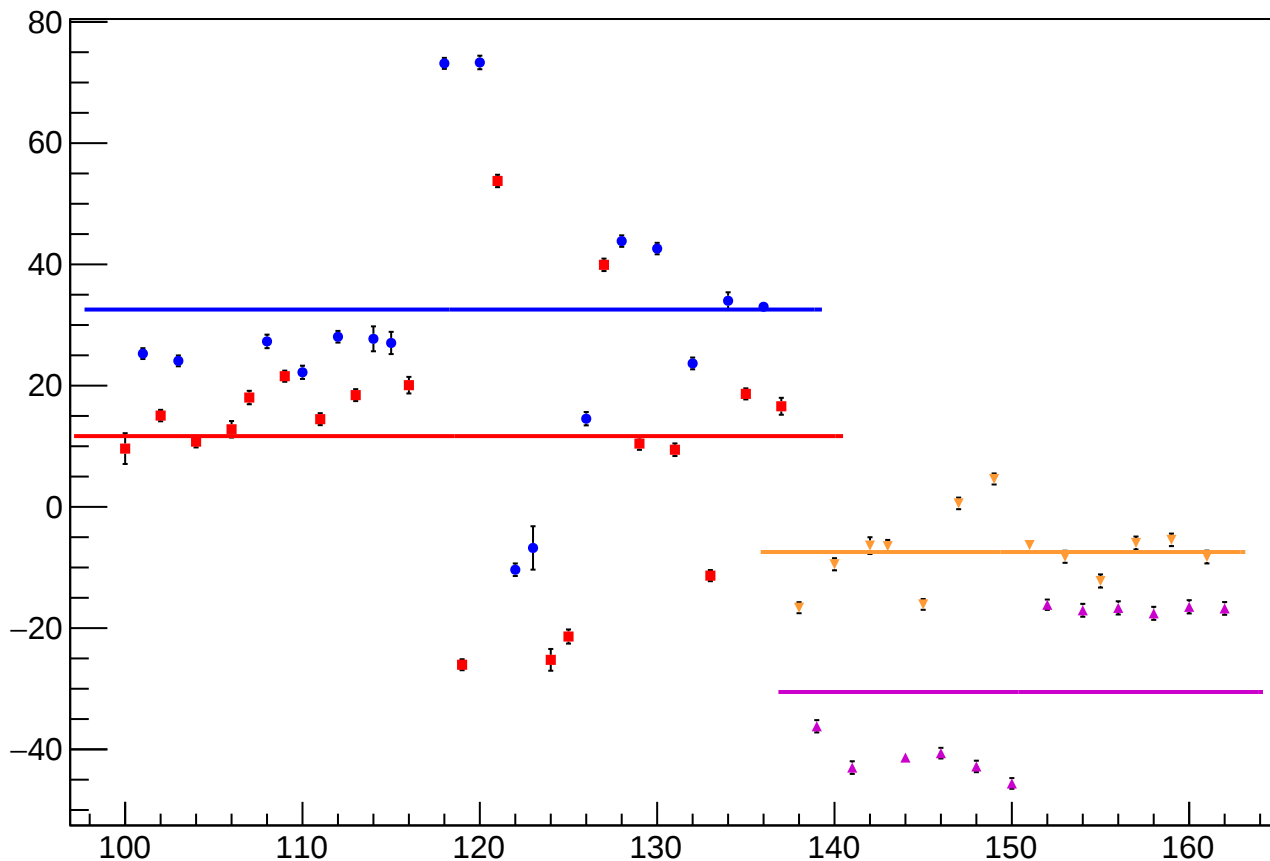
Right: 778.845 $\pm$ 0.148 χ^2/NDF : 125090.9/35

In: 892.635 $\pm$ 0.158 χ^2/NDF : 789461.2/28

Out: 888.871 $\pm$ 0.154 χ^2/NDF : 737489.4/31

All: 890.716 $\pm$ 0.110 χ^2/NDF : 1527241.7/60

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552+/-0.253 χ^2/NDF : 6073.0/16

Left Out: -7.446+/-0.274 χ^2/NDF : 476.1/12

Right Out: 11.674+/-0.247 χ^2/NDF : 6357.6/18

Left In: -30.536+/-0.280 χ^2/NDF : 2025.0/11

Left: -18.744+/-0.196 χ^2/NDF : 5968.0/24

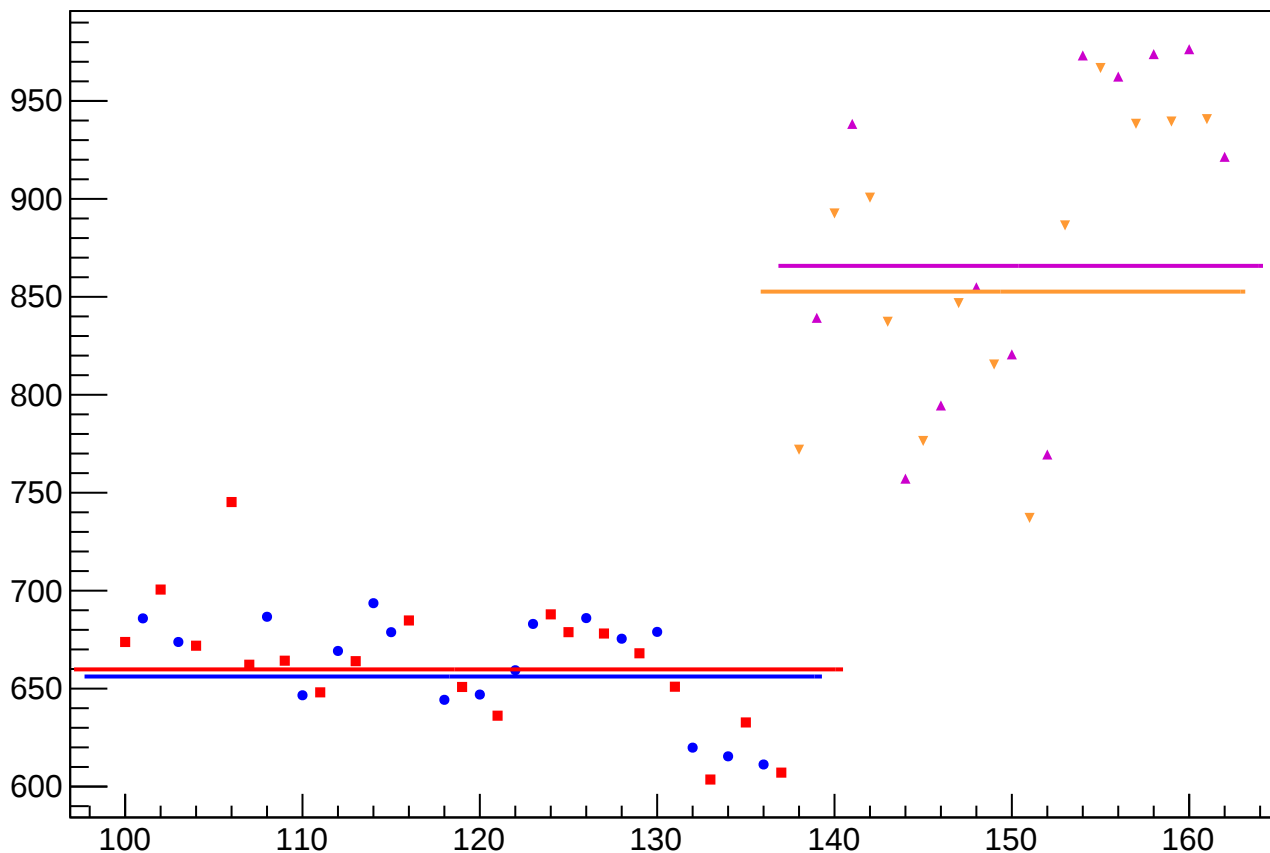
Right: 21.868+/-0.177 χ^2/NDF : 15919.4/35

In: 4.240+/-0.188 χ^2/NDF : 36033.1/28

Out: 3.113+/-0.184 χ^2/NDF : 9516.8/31

All: 3.664+/-0.131 χ^2/NDF : 45568.3/60

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181+/-0.179 χ^2/NDF : 23569.6/16

Left Out: 852.666+/-0.194 χ^2/NDF : 144693.0/12

Right Out: 659.813+/-0.175 χ^2/NDF : 28325.7/18

Left In: 865.812+/-0.198 χ^2/NDF : 172021.0/11

Left: 859.098+/-0.139 χ^2/NDF : 318961.7/24

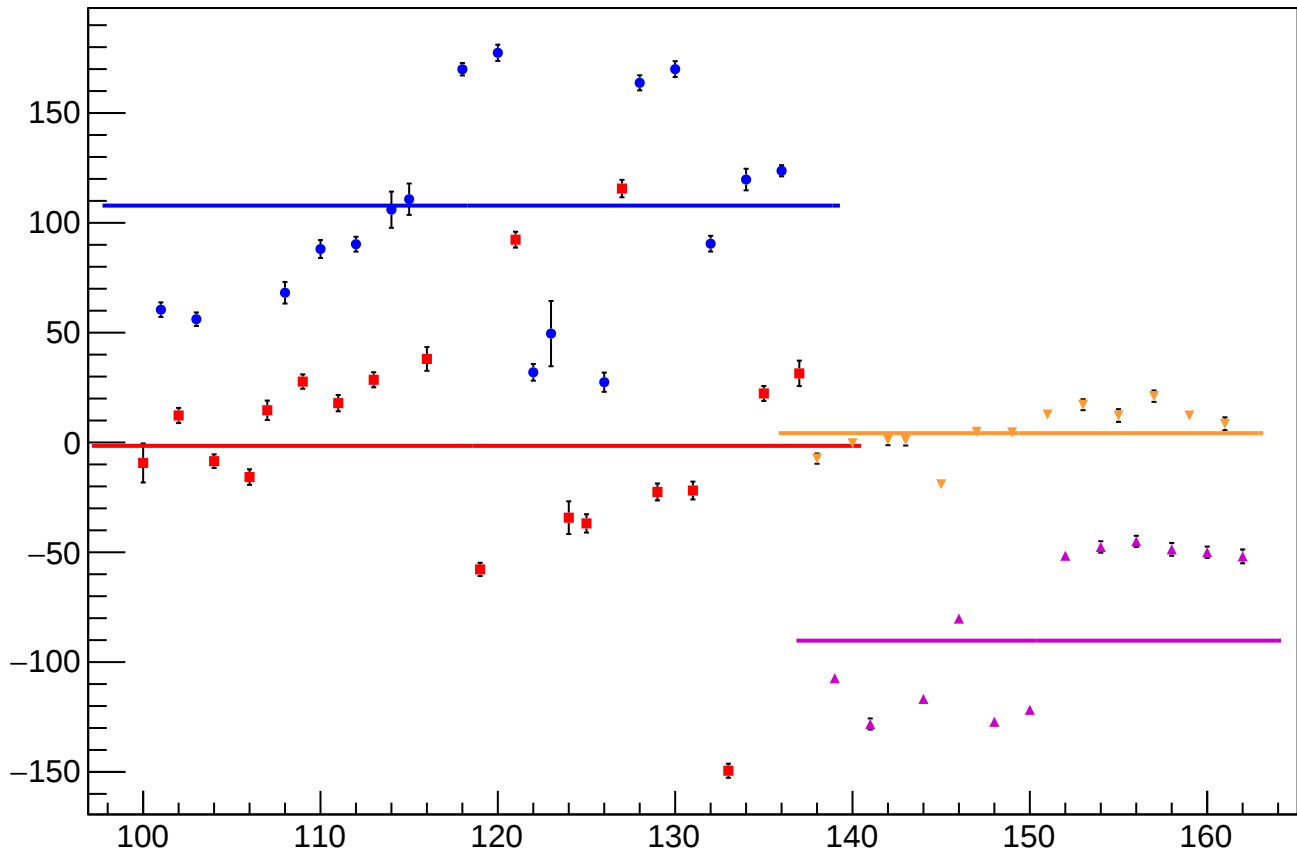
Right: 658.039+/-0.125 χ^2/NDF : 52106.5/35

In: 750.257+/-0.133 χ^2/NDF : 812461.9/28

Out: 746.161+/-0.130 χ^2/NDF : 718958.1/31

All: 748.162+/-0.093 χ^2/NDF : 1531906.8/60

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 4.233 ± 0.624 $\chi^2/\text{NDF}: 271.5/12$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -90.229 ± 0.635 $\chi^2/\text{NDF}: 2717.2/11$

Left: -42.225 ± 0.445 $\chi^2/\text{NDF}: 14248.5/24$

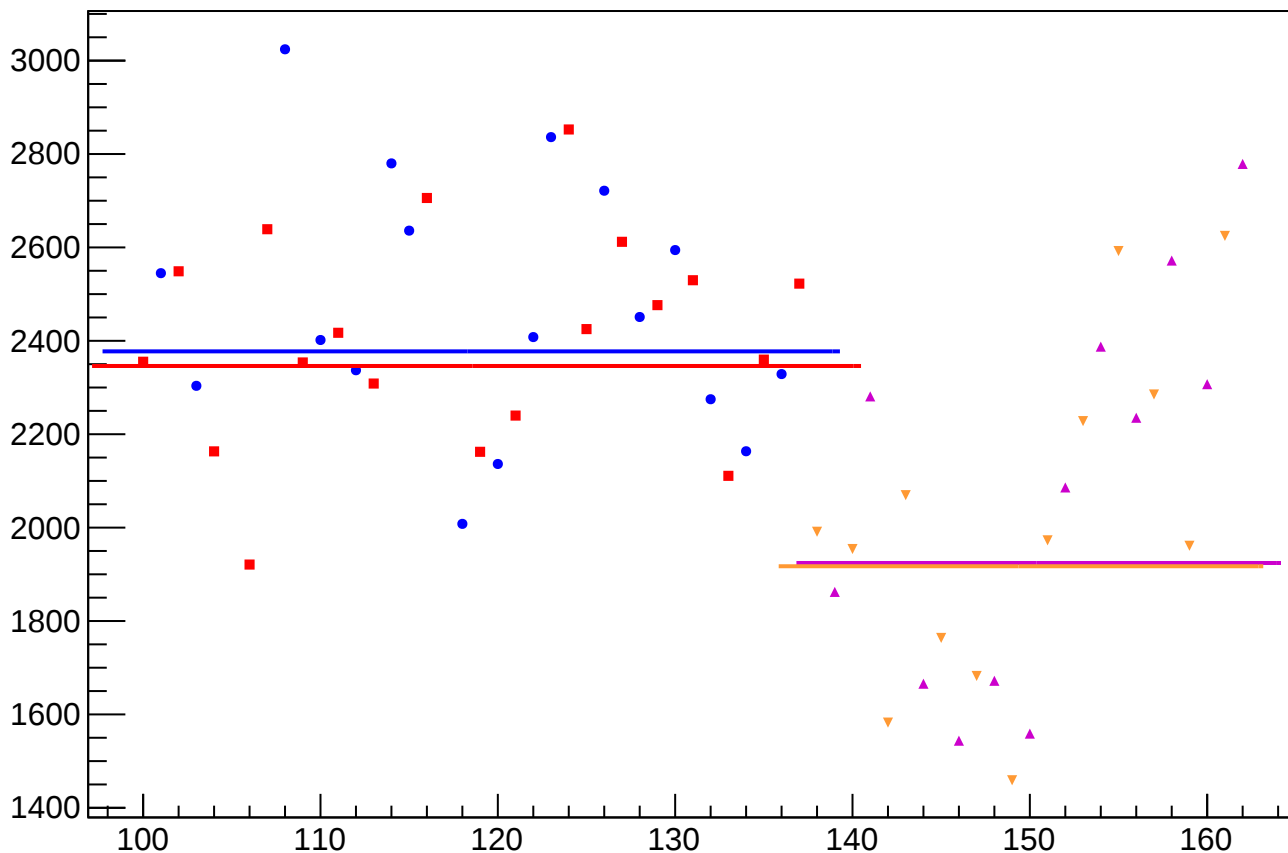
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -26.511 ± 0.523 $\chi^2/\text{NDF}: 36866.2/28$

Out: 2.309 ± 0.510 $\chi^2/\text{NDF}: 4823.8/31$

All: -11.743 ± 0.365 $\chi^2/\text{NDF}: 43248.1/60$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 1917.265+/-0.441 χ^2/NDF : 543816.2/12

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 1924.266+/-0.449 χ^2/NDF : 700542.3/11

Left: 1920.708+/-0.315 χ^2/NDF : 1244482.2/24

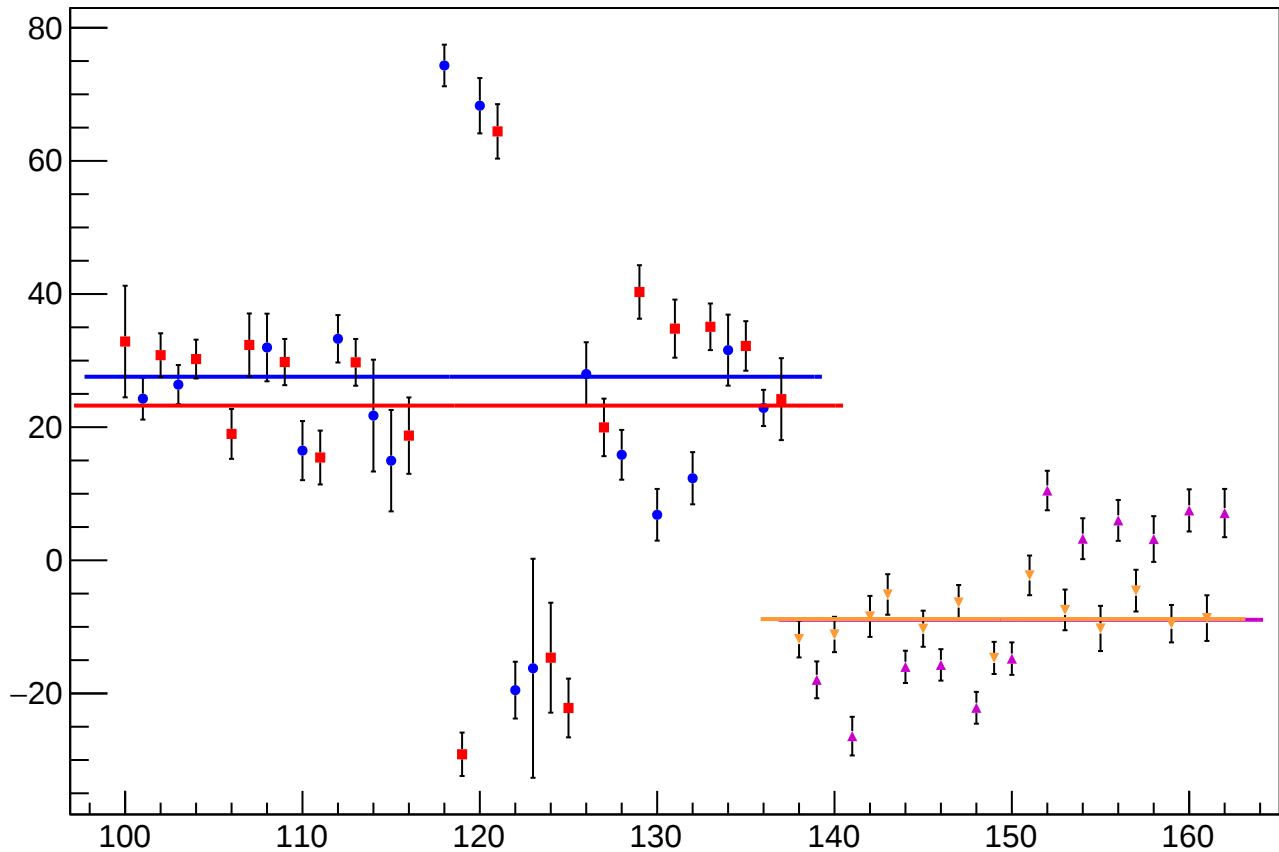
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2070.036+/-0.370 χ^2/NDF : 1148240.8/28

Out: 2060.128+/-0.360 χ^2/NDF : 966464.2/31

All: 2064.959+/-0.258 χ^2/NDF : 2115073.3/60

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -8.824 ± 0.801 $\chi^2/\text{NDF}: 17.6/12$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.933 ± 0.809 $\chi^2/\text{NDF}: 241.0/11$

Left: -8.878 ± 0.569 $\chi^2/\text{NDF}: 258.6/24$

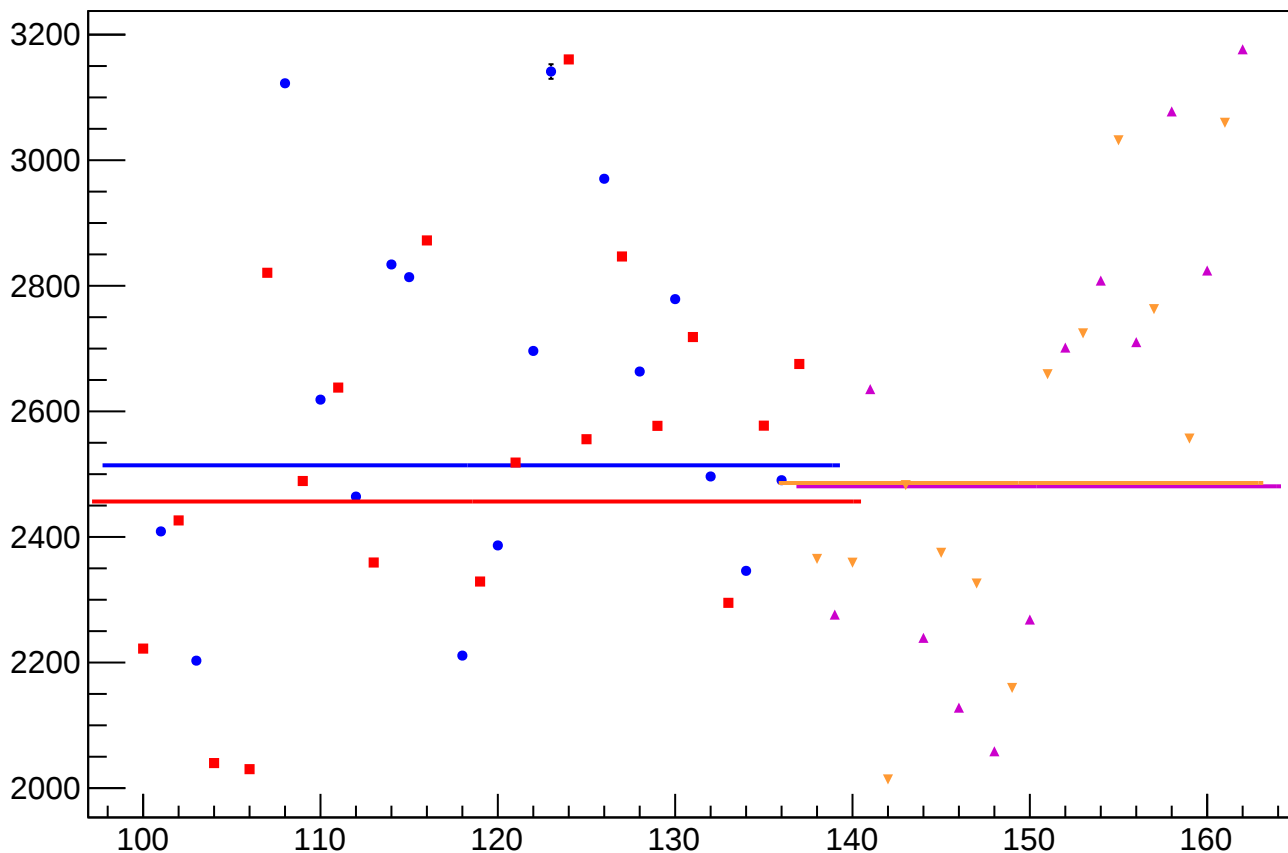
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 5.962 ± 0.623 $\chi^2/\text{NDF}: 1591.0/28$

Out: 4.887 ± 0.606 $\chi^2/\text{NDF}: 1260.5/31$

All: 5.410 ± 0.434 $\chi^2/\text{NDF}: 2853.0/60$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2 /NDF: 120961.3/16

Left Out: 2485.919 $\pm$ 0.567 χ^2 /NDF: 246179.6/12

Right Out: 2456.460 $\pm$ 0.655 χ^2 /NDF: 149732.7/18

Left In: 2480.656 $\pm$ 0.572 χ^2 /NDF: 360906.9/11

Left: 2483.314 $\pm$ 0.403 χ^2 /NDF: 607129.2/24

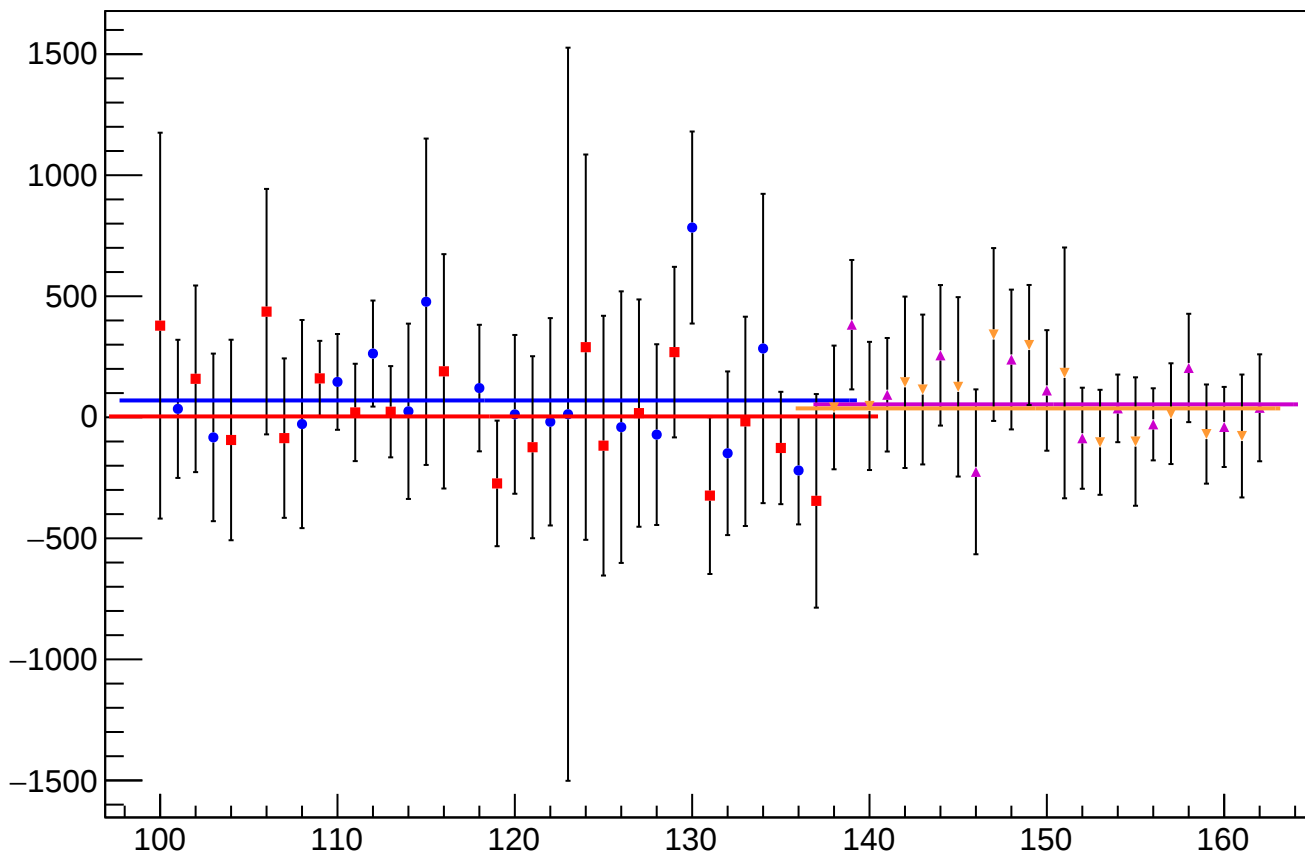
Right: 2483.827 $\pm$ 0.475 χ^2 /NDF: 274364.7/35

In: 2494.295 $\pm$ 0.440 χ^2 /NDF: 483261.0/28

Out: 2473.323 $\pm$ 0.429 χ^2 /NDF: 397068.6/31

All: 2483.528 $\pm$ 0.307 χ^2 /NDF: 881494.6/60

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587+/-79.023 χ^2/NDF : 7.3/16

Left Out: 36.768+/-74.324 χ^2/NDF : 3.3/12

Right Out: 3.562+/-69.980 χ^2/NDF : 6.4/18

Left In: 53.427+/-60.069 χ^2/NDF : 4.7/11

Left: 46.845+/-46.718 χ^2/NDF : 8.0/24

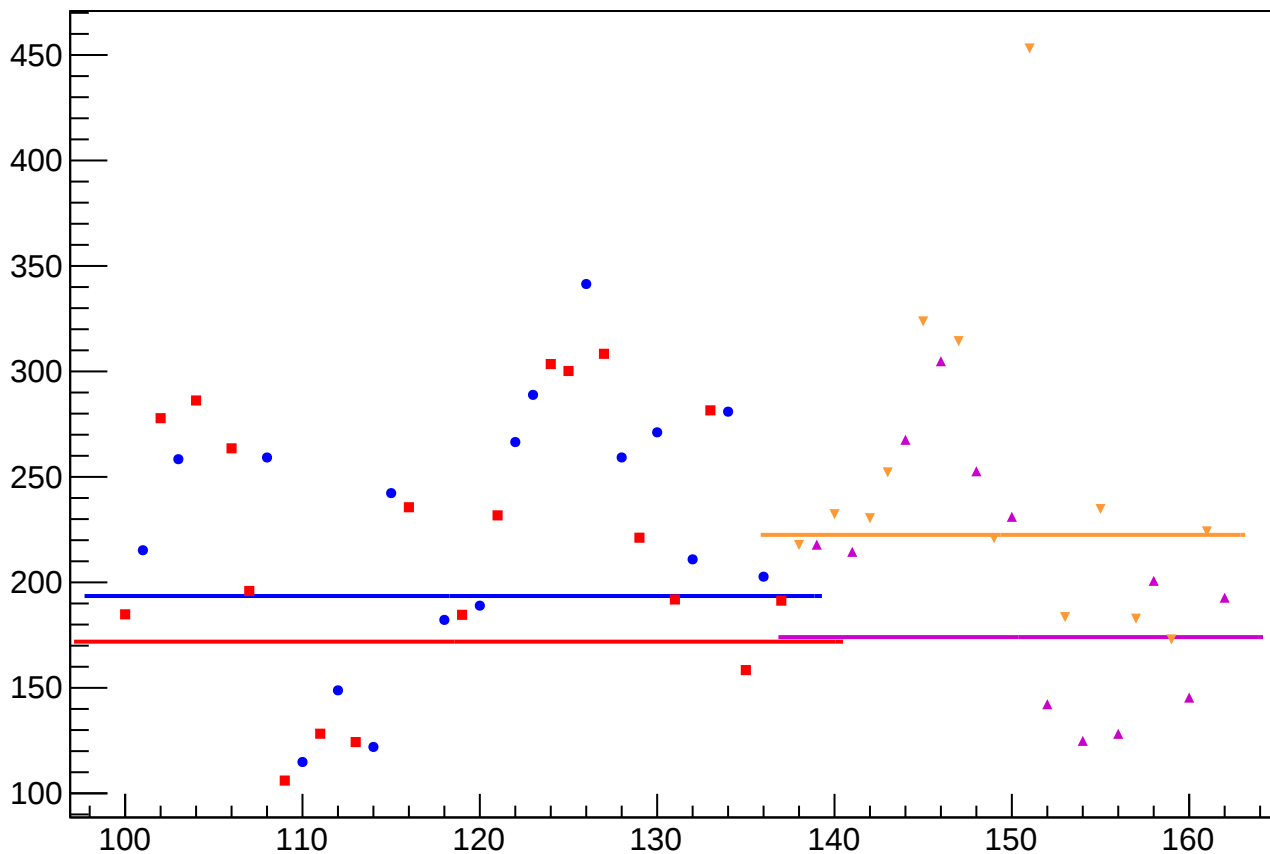
Right: 32.582+/-52.390 χ^2/NDF : 14.1/35

In: 59.345+/-47.821 χ^2/NDF : 12.1/28

Out: 19.166+/-50.950 χ^2/NDF : 9.8/31

All: 40.527+/-34.868 χ^2/NDF : 22.2/60

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533 ± 0.056 χ^2/NDF : 1010428.2/16

Left Out: 222.529 ± 0.053 χ^2/NDF : 959596.2/12

Right Out: 171.901 ± 0.049 χ^2/NDF : 1576883.7/18

Left In: 174.054 ± 0.042 χ^2/NDF : 1455891.6/11

Left: 193.207 ± 0.033 χ^2/NDF : 2930102.4/24

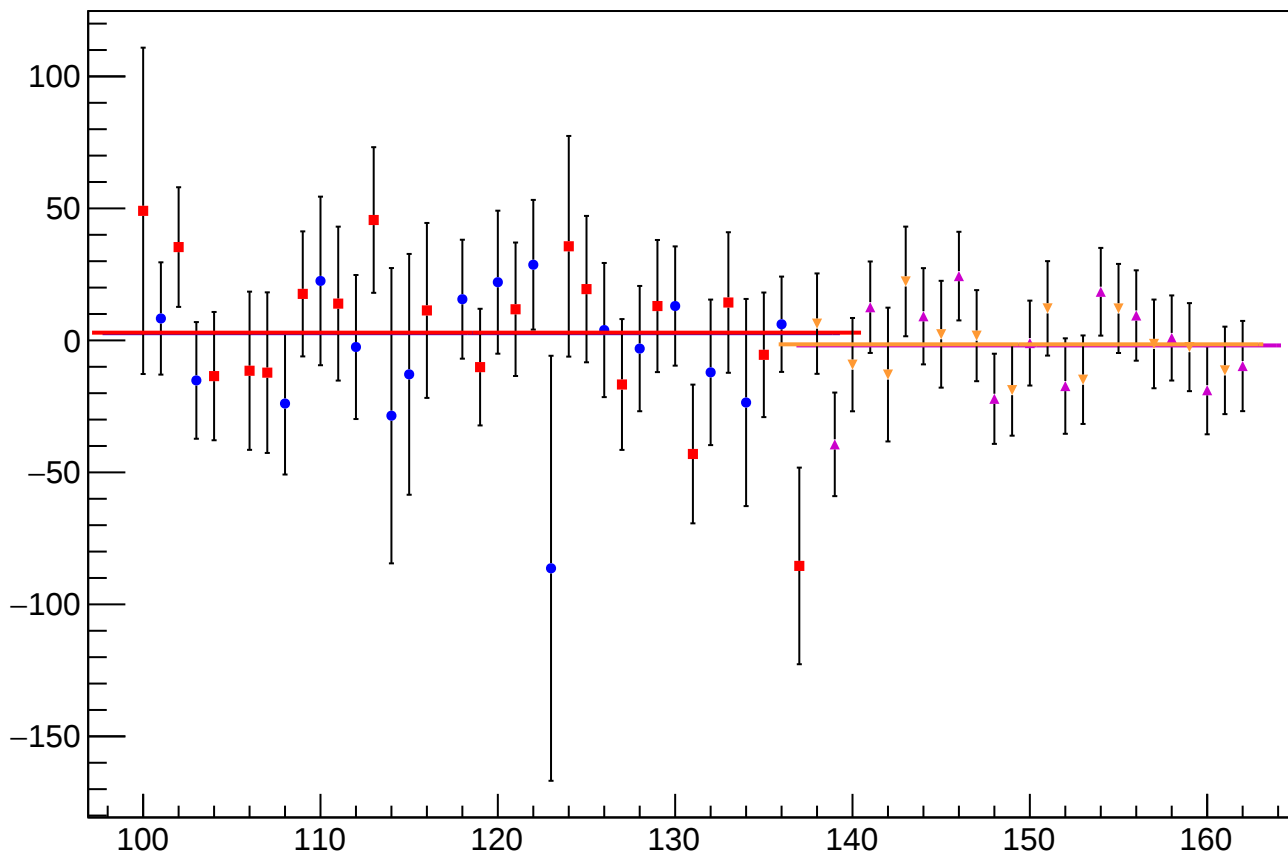
Right: 181.409 ± 0.037 χ^2/NDF : 2671312.8/35

In: 181.188 ± 0.034 χ^2/NDF : 2543336.5/28

Out: 195.692 ± 0.036 χ^2/NDF : 3028411.3/31

All: 187.981 ± 0.025 χ^2/NDF : 5657920.2/60

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733+/-6.424 χ^2/NDF : 6.8/16

Left Out: -1.489+/-5.001 χ^2/NDF : 5.2/12

Right Out: 2.928+/-6.279 χ^2/NDF : 17.8/18

Left In: -1.909+/-4.955 χ^2/NDF : 12.5/11

Left: -1.701+/-3.520 χ^2/NDF : 17.7/24

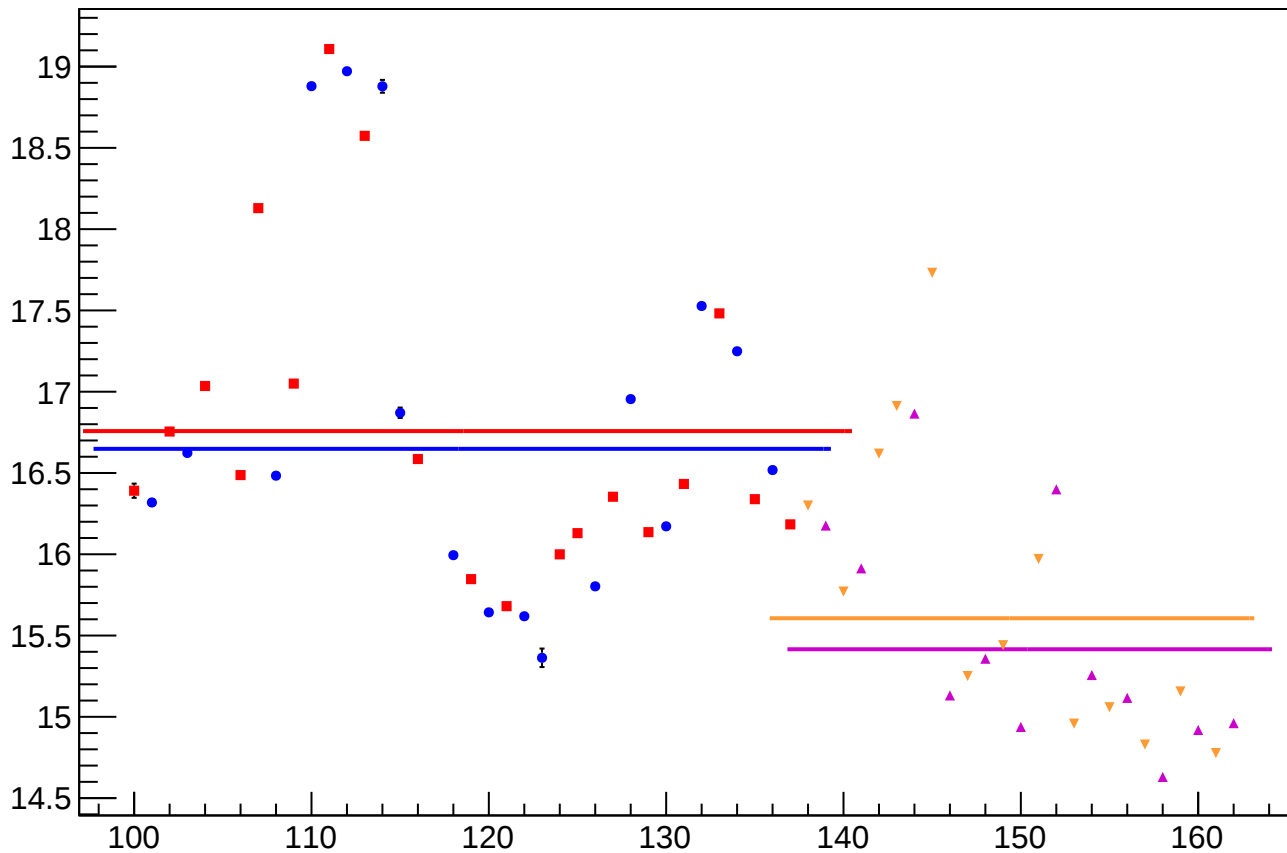
Right: 2.833+/-4.490 χ^2/NDF : 24.5/35

In: -0.177+/-3.923 χ^2/NDF : 19.6/28

Out: 0.225+/-3.912 χ^2/NDF : 23.2/31

All: 0.025+/-2.770 χ^2/NDF : 42.8/60

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 $\pm$ 0.005 χ^2 /NDF: 42566.9/16

Left Out: 15.606 $\pm$ 0.004 χ^2 /NDF: 53700.9/12

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.416 $\pm$ 0.004 χ^2 /NDF: 34315.2/11

Left: 15.510 $\pm$ 0.002 χ^2 /NDF: 89486.6/24

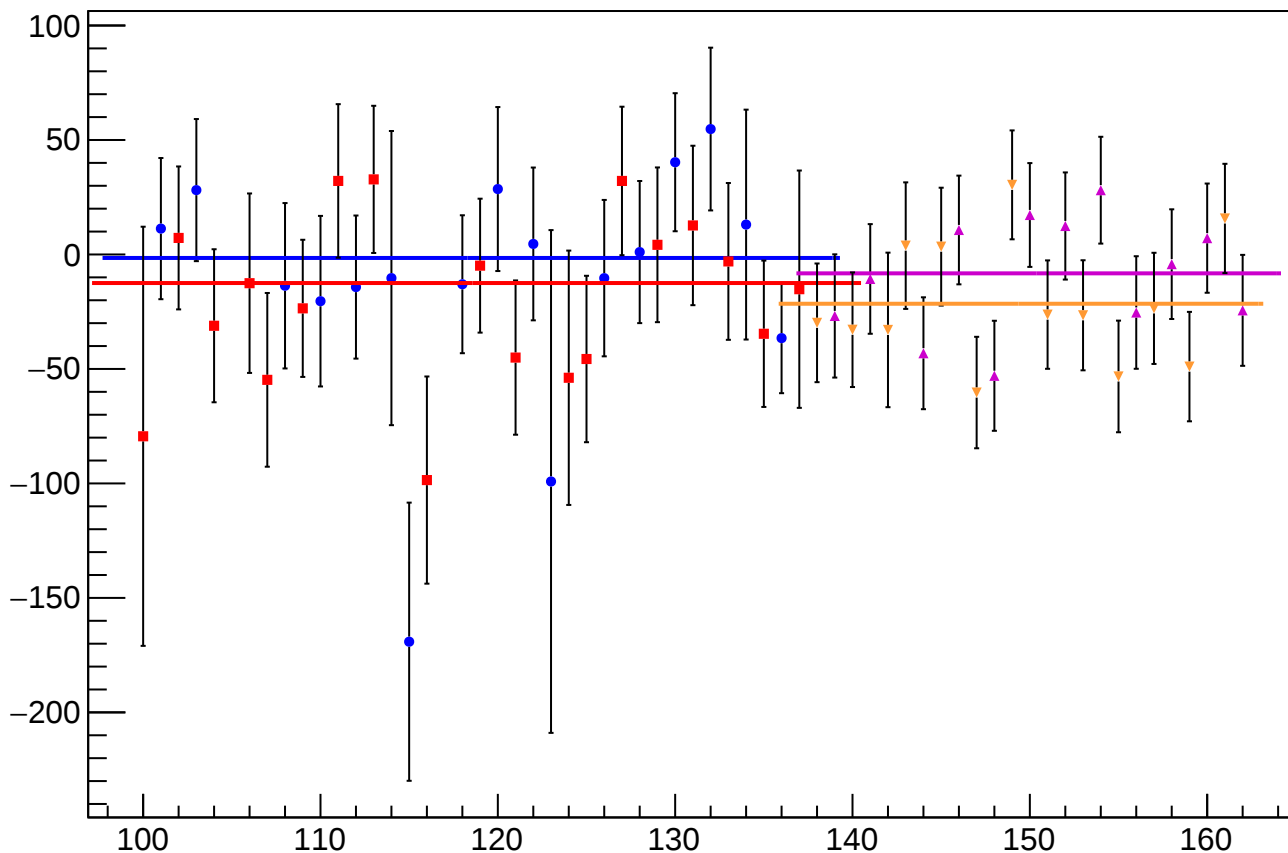
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.875 $\pm$ 0.003 χ^2 /NDF: 123072.0/28

Out: 16.053 $\pm$ 0.003 χ^2 /NDF: 134786.9/31

All: 15.965 $\pm$ 0.002 χ^2 /NDF: 259922.1/60

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -21.524 ± 6.961 $\chi^2/\text{NDF}: 15.1/12$

Right Out: -12.475 ± 8.210 $\chi^2/\text{NDF}: 15.6/18$

Left In: -8.245 ± 6.938 $\chi^2/\text{NDF}: 12.5/11$

Left: -14.863 ± 4.914 $\chi^2/\text{NDF}: 29.4/24$

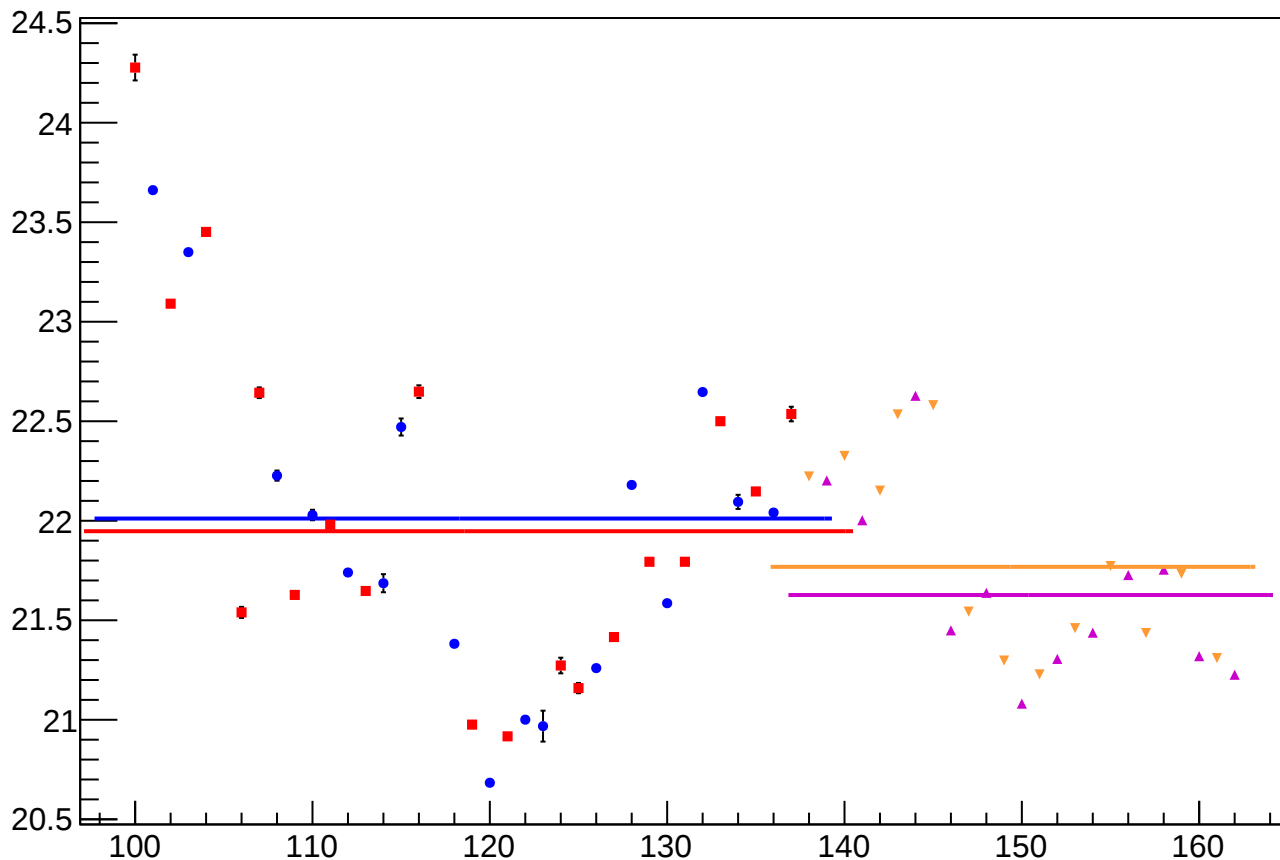
Right: -7.179 ± 5.900 $\chi^2/\text{NDF}: 34.1/35$

In: -5.552 ± 5.371 $\chi^2/\text{NDF}: 30.5/28$

Out: -17.740 ± 5.309 $\chi^2/\text{NDF}: 31.4/31$

All: -11.716 ± 3.776 $\chi^2/\text{NDF}: 64.5/60$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011 $\pm$ 0.006 χ^2 /NDF: 17546.9/16

Left Out: 21.768 $\pm$ 0.005 χ^2 /NDF: 8832.3/12

Right Out: 21.947 $\pm$ 0.006 χ^2 /NDF: 16592.7/18

Left In: 21.627 $\pm$ 0.005 χ^2 /NDF: 7513.0/11

Left: 21.697 $\pm$ 0.003 χ^2 /NDF: 16760.3/24

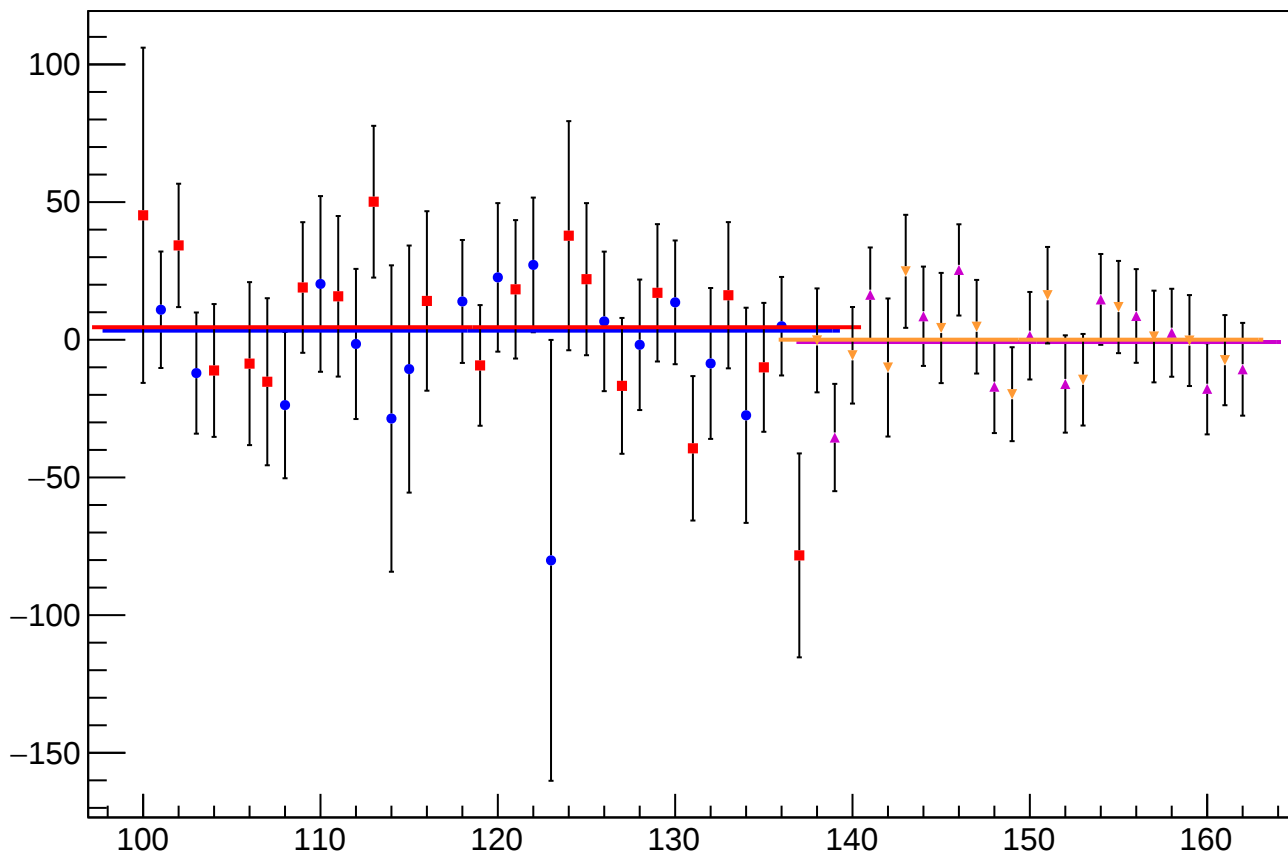
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.781 $\pm$ 0.004 χ^2 /NDF: 27518.5/28

Out: 21.843 $\pm$ 0.004 χ^2 /NDF: 25978.2/31

All: 21.812 $\pm$ 0.003 χ^2 /NDF: 53633.4/60

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 ± 6.388 χ^2/NDF : 6.3/16

Left Out: 0.037 ± 4.947 χ^2/NDF : 5.5/12

Right Out: 4.561 ± 6.244 χ^2/NDF : 17.7/18

Left In: -0.813 ± 4.900 χ^2/NDF : 11.3/11

Left: -0.392 ± 3.481 χ^2/NDF : 16.8/24

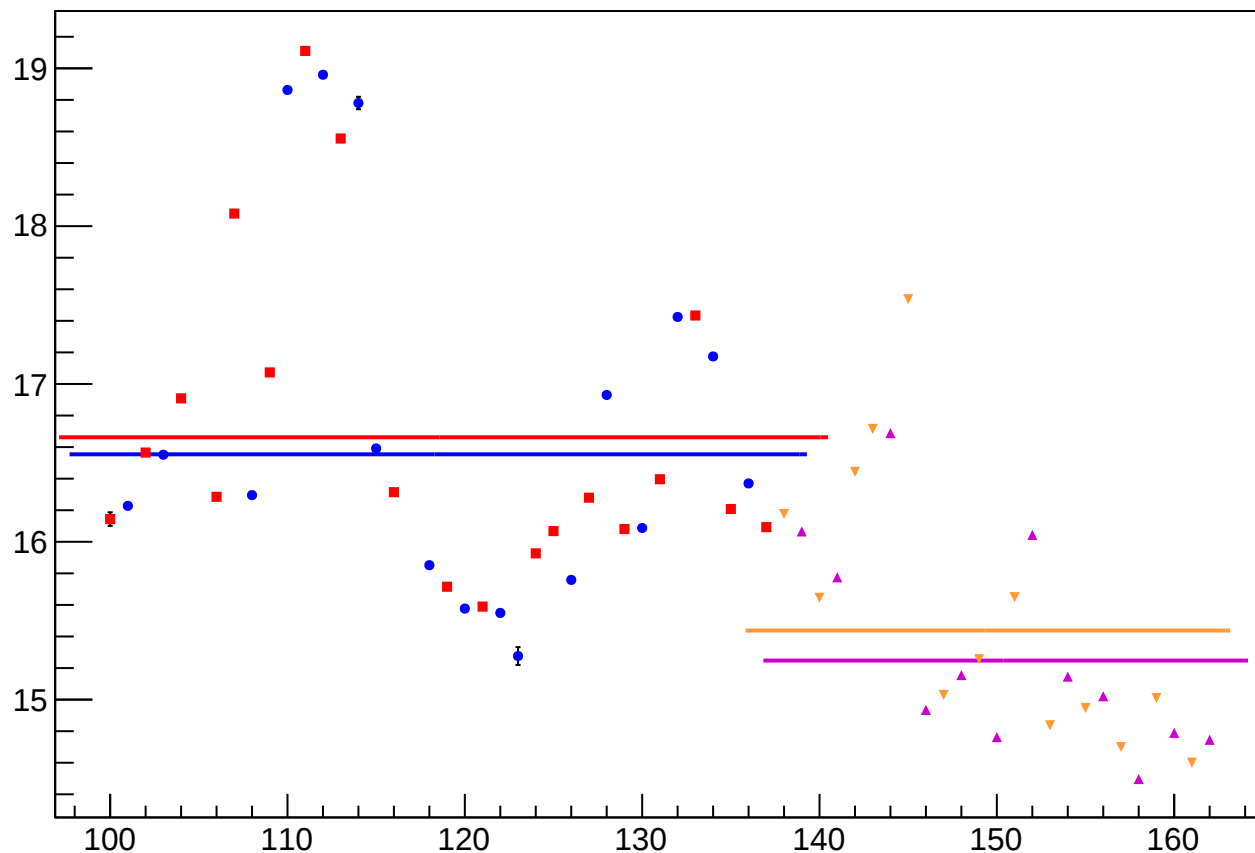
Right: 3.953 ± 4.465 χ^2/NDF : 24.0/35

In: 0.717 ± 3.888 χ^2/NDF : 17.8/28

Out: 1.782 ± 3.877 χ^2/NDF : 23.6/31

All: 1.251 ± 2.746 χ^2/NDF : 41.4/60

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.438 $\pm$ 0.003 χ^2 /NDF: 52830.1/12

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.248 $\pm$ 0.003 χ^2 /NDF: 33022.4/11

Left: 15.342 $\pm$ 0.002 χ^2 /NDF: 87342.7/24

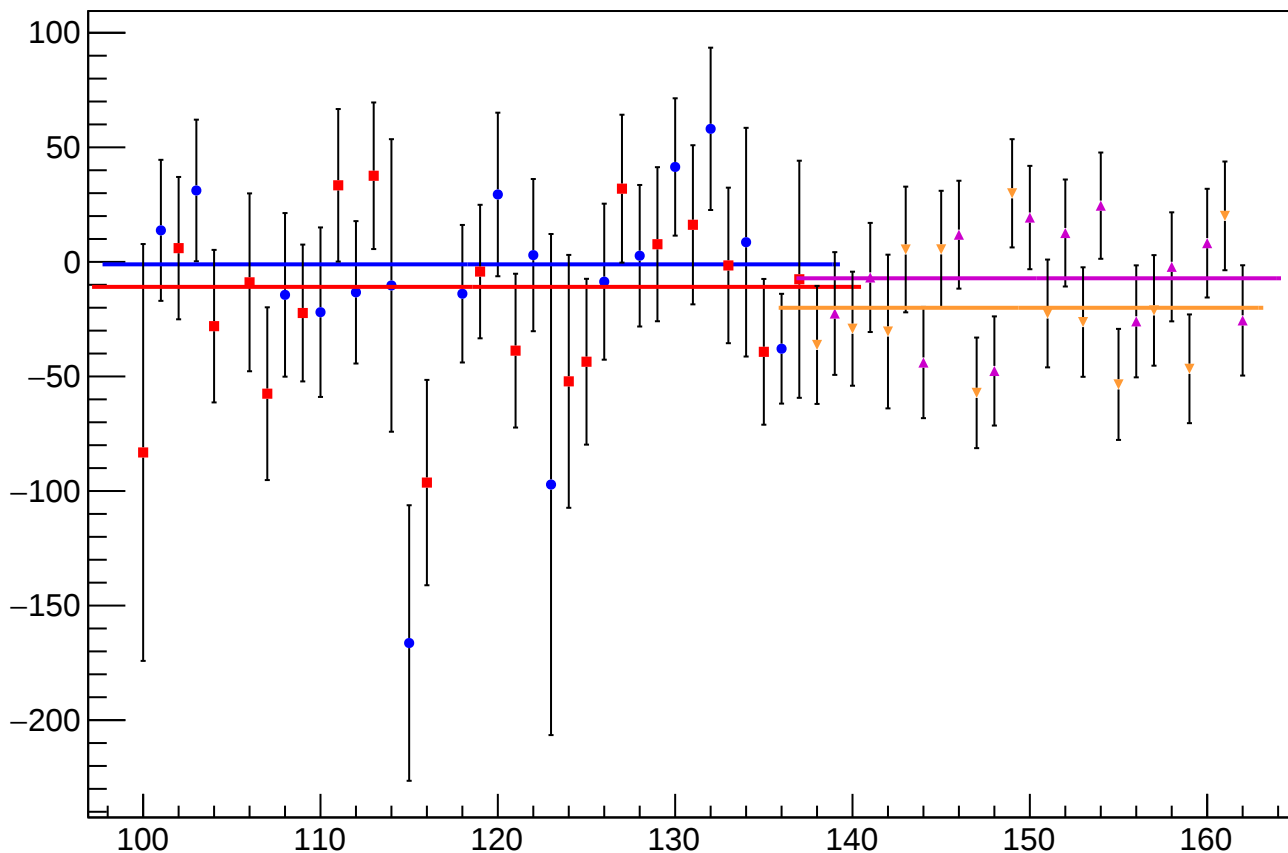
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.732 $\pm$ 0.003 χ^2 /NDF: 130186.7/28

Out: 15.910 $\pm$ 0.003 χ^2 /NDF: 143163.7/31

All: 15.821 $\pm$ 0.002 χ^2 /NDF: 275459.5/60

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 χ^2/NDF : 18.5/16

Left Out: -20.030 ± 6.915 χ^2/NDF : 15.4/12

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -7.152 ± 6.897 χ^2/NDF : 11.8/11

Left: -13.574 ± 4.883 χ^2/NDF : 28.9/24

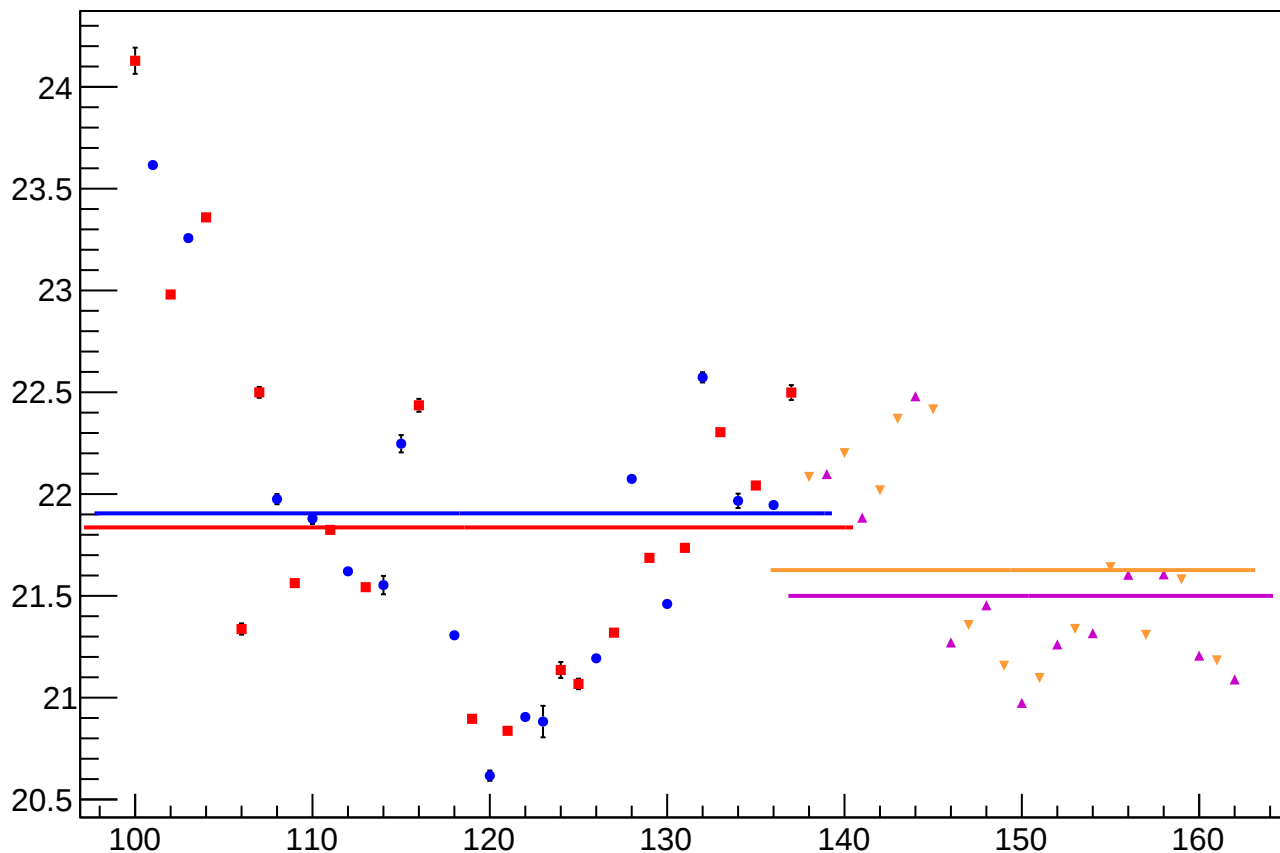
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -4.718 ± 5.342 χ^2/NDF : 30.5/28

Out: -16.218 ± 5.278 χ^2/NDF : 32.4/31

All: -10.537 ± 3.754 χ^2/NDF : 65.3/60

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 $\pm$ 0.006 χ^2 /NDF: 17794.2/16

Left Out: 21.627 $\pm$ 0.005 χ^2 /NDF: 8750.9/12

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.500 $\pm$ 0.005 χ^2 /NDF: 7360.9/11

Left: 21.563 $\pm$ 0.003 χ^2 /NDF: 16447.7/24

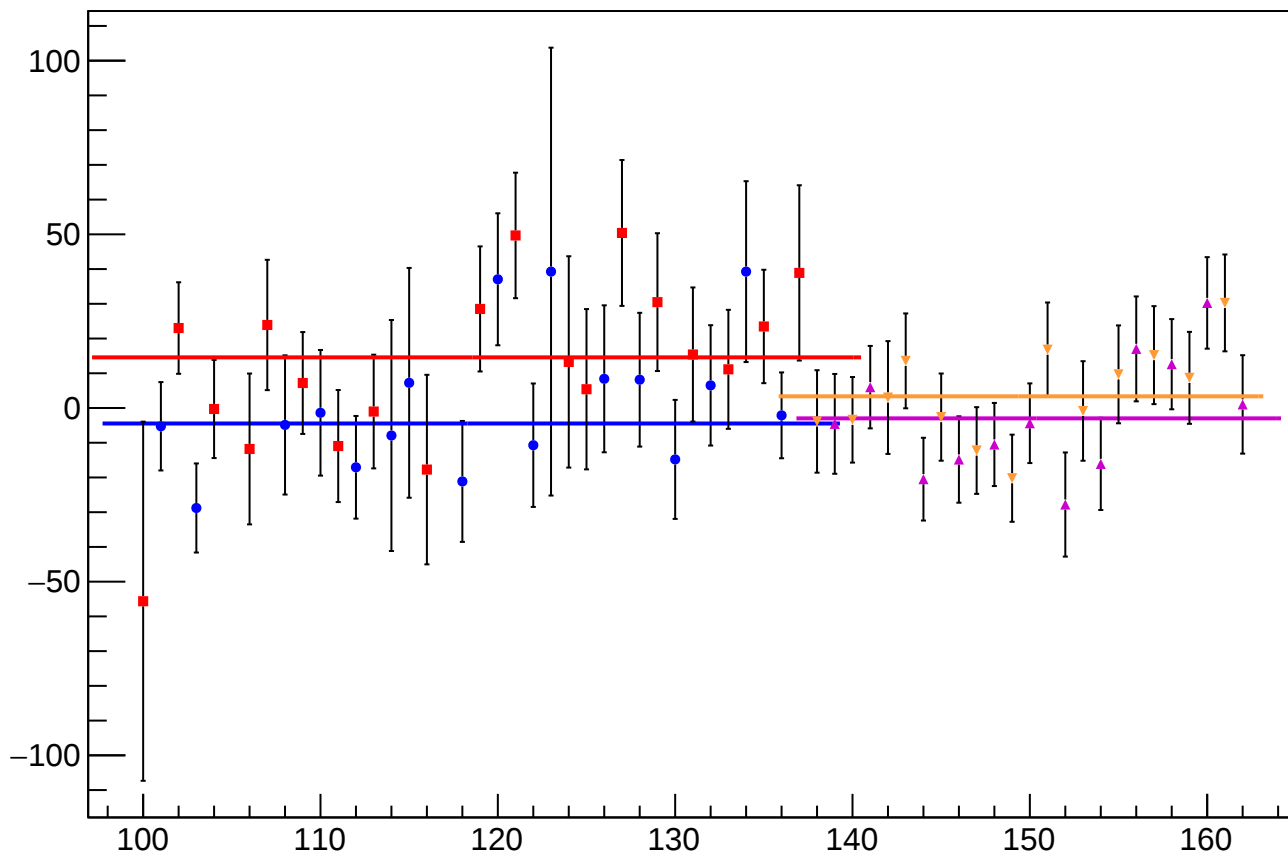
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.662 $\pm$ 0.004 χ^2 /NDF: 27917.7/28

Out: 21.714 $\pm$ 0.004 χ^2 /NDF: 25769.5/31

All: 21.688 $\pm$ 0.003 χ^2 /NDF: 53783.0/60

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 3.363 ± 3.762 χ^2/NDF : 12.3/12

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -2.985 ± 3.747 χ^2/NDF : 17.4/11

Left: 0.177 ± 2.655 χ^2/NDF : 31.1/24

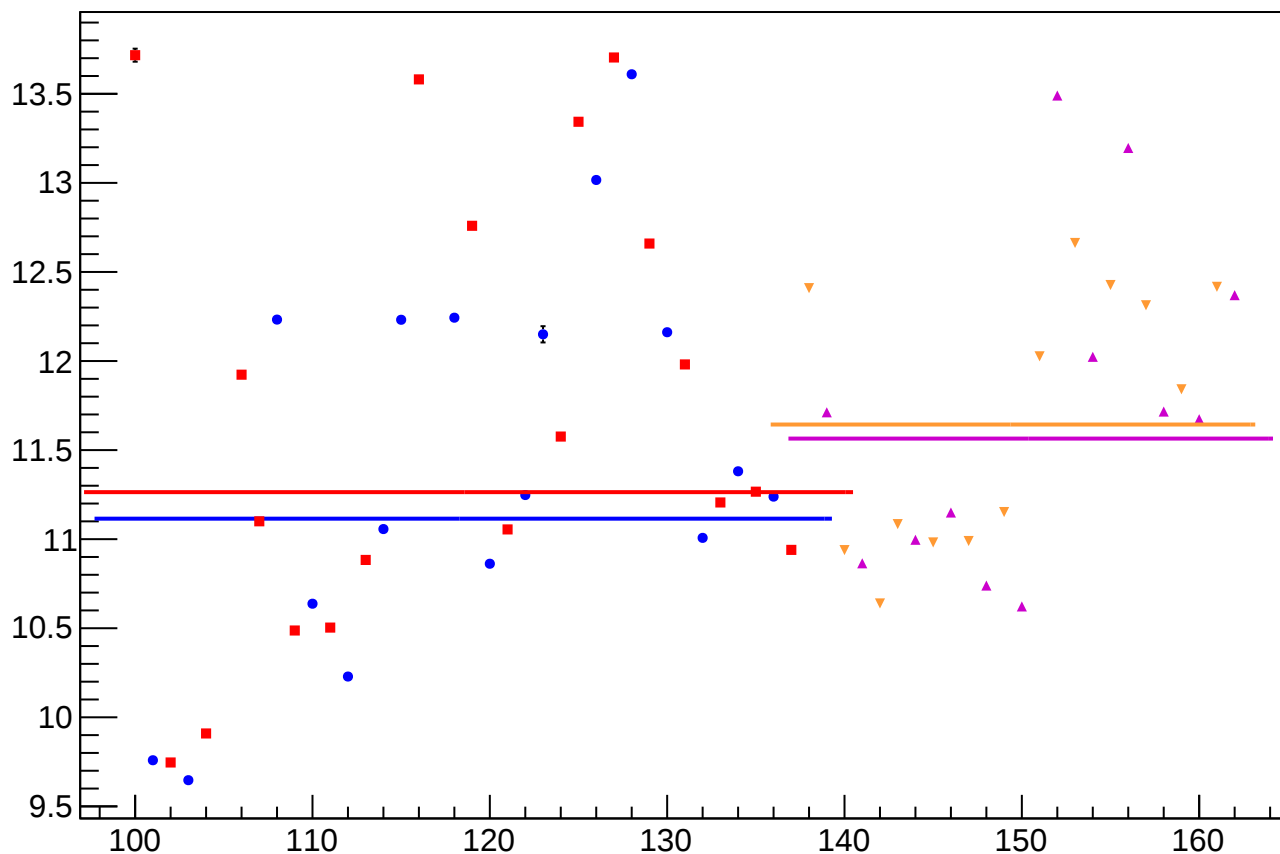
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -3.617 ± 2.833 χ^2/NDF : 32.7/28

Out: 8.272 ± 2.821 χ^2/NDF : 35.7/31

All: 2.353 ± 1.999 χ^2/NDF : 77.2/60

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 ± 0.003 $\chi^2/\text{NDF}: 133059.3/16$

Left Out: 11.644 ± 0.003 $\chi^2/\text{NDF}: 66052.0/12$

Right Out: 11.264 ± 0.003 $\chi^2/\text{NDF}: 147483.5/18$

Left In: 11.565 ± 0.003 $\chi^2/\text{NDF}: 102549.5/11$

Left: 11.604 ± 0.002 $\chi^2/\text{NDF}: 169043.5/24$

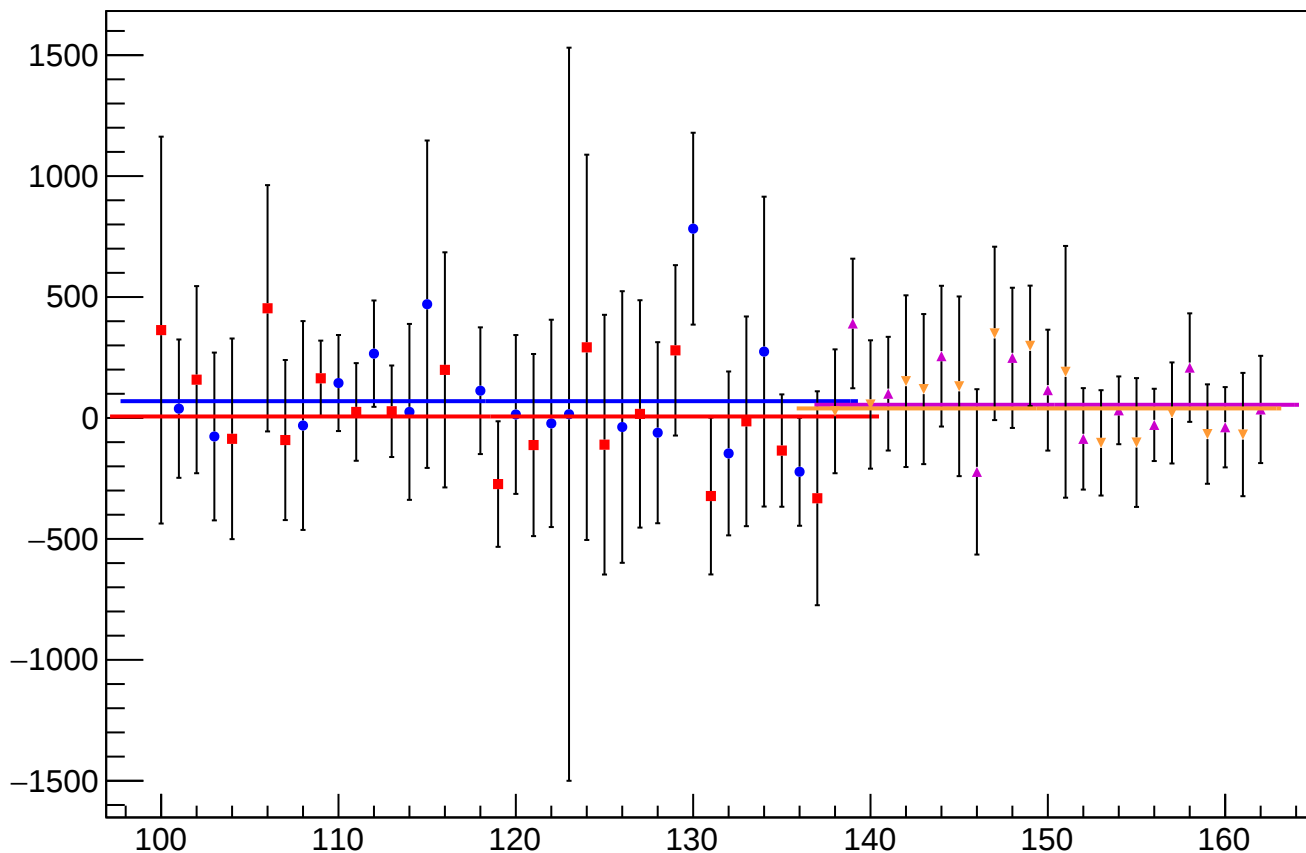
Right: 11.191 ± 0.002 $\chi^2/\text{NDF}: 281744.0/35$

In: 11.372 ± 0.002 $\chi^2/\text{NDF}: 247939.7/28$

Out: 11.477 ± 0.002 $\chi^2/\text{NDF}: 222448.2/31$

All: 11.425 ± 0.001 $\chi^2/\text{NDF}: 471777.7/60$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 39.473+/-74.576 χ^2/NDF : 3.3/12

Right Out: 6.194+/-70.182 χ^2/NDF : 6.5/18

Left In: 54.504+/-60.271 χ^2/NDF : 4.8/11

Left: 48.566+/-46.876 χ^2/NDF : 8.2/24

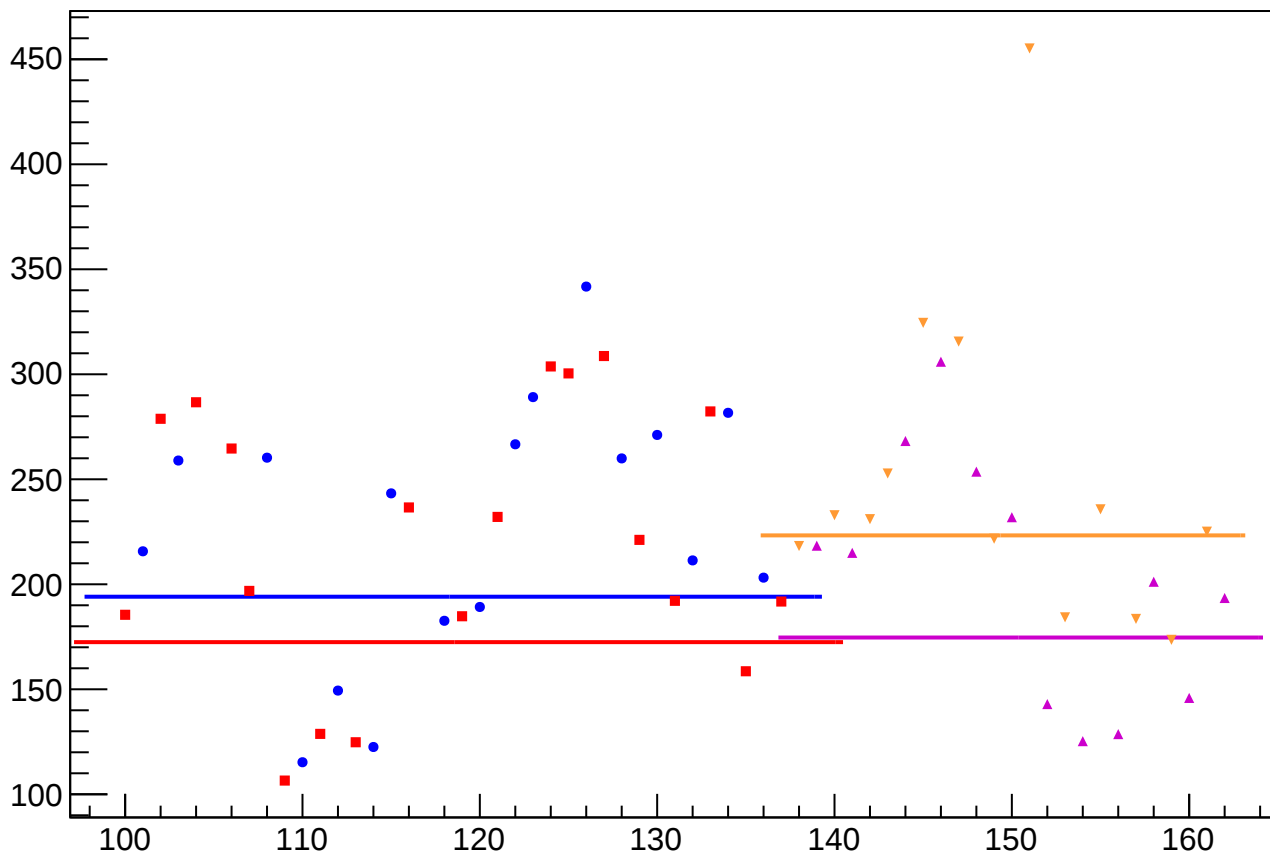
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 59.990+/-47.969 χ^2/NDF : 12.1/28

Out: 21.825+/-51.109 χ^2/NDF : 9.9/31

All: 42.116+/-34.977 χ^2/NDF : 22.3/60

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 223.285 $\pm$ 0.053 χ^2 /NDF: 958881.8/12

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 174.648 $\pm$ 0.043 χ^2 /NDF: 1453658.2/11

Left: 193.865 $\pm$ 0.033 χ^2 /NDF: 2927129.3/24

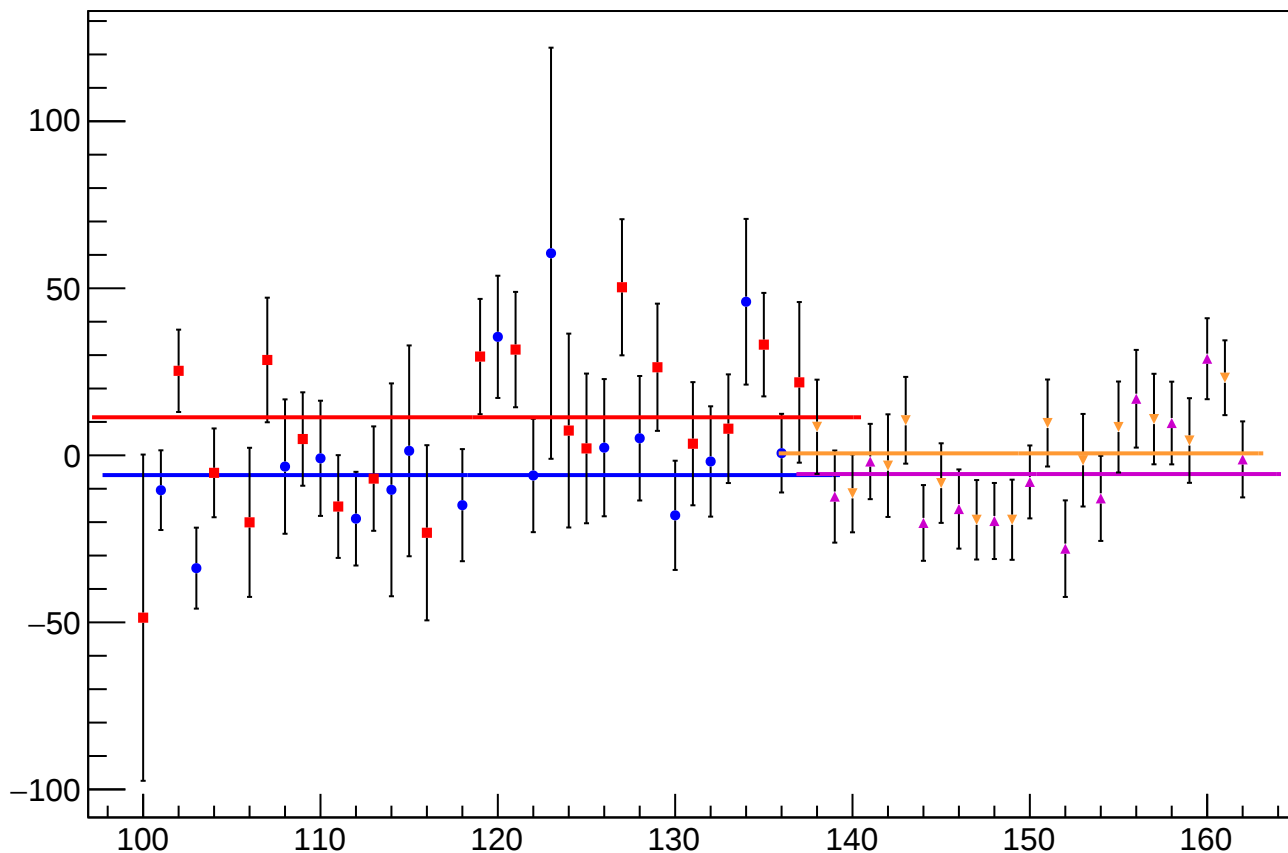
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 181.771 $\pm$ 0.034 χ^2 /NDF: 2535270.6/28

Out: 196.327 $\pm$ 0.036 χ^2 /NDF: 3021154.7/31

All: 188.589 $\pm$ 0.025 χ^2 /NDF: 5642671.6/60

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 χ^2/NDF : 18.8/16

Left Out: 0.592 ± 3.541 χ^2/NDF : 13.7/12

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.602 ± 3.518 χ^2/NDF : 19.2/11

Left: -2.526 ± 2.496 χ^2/NDF : 34.5/24

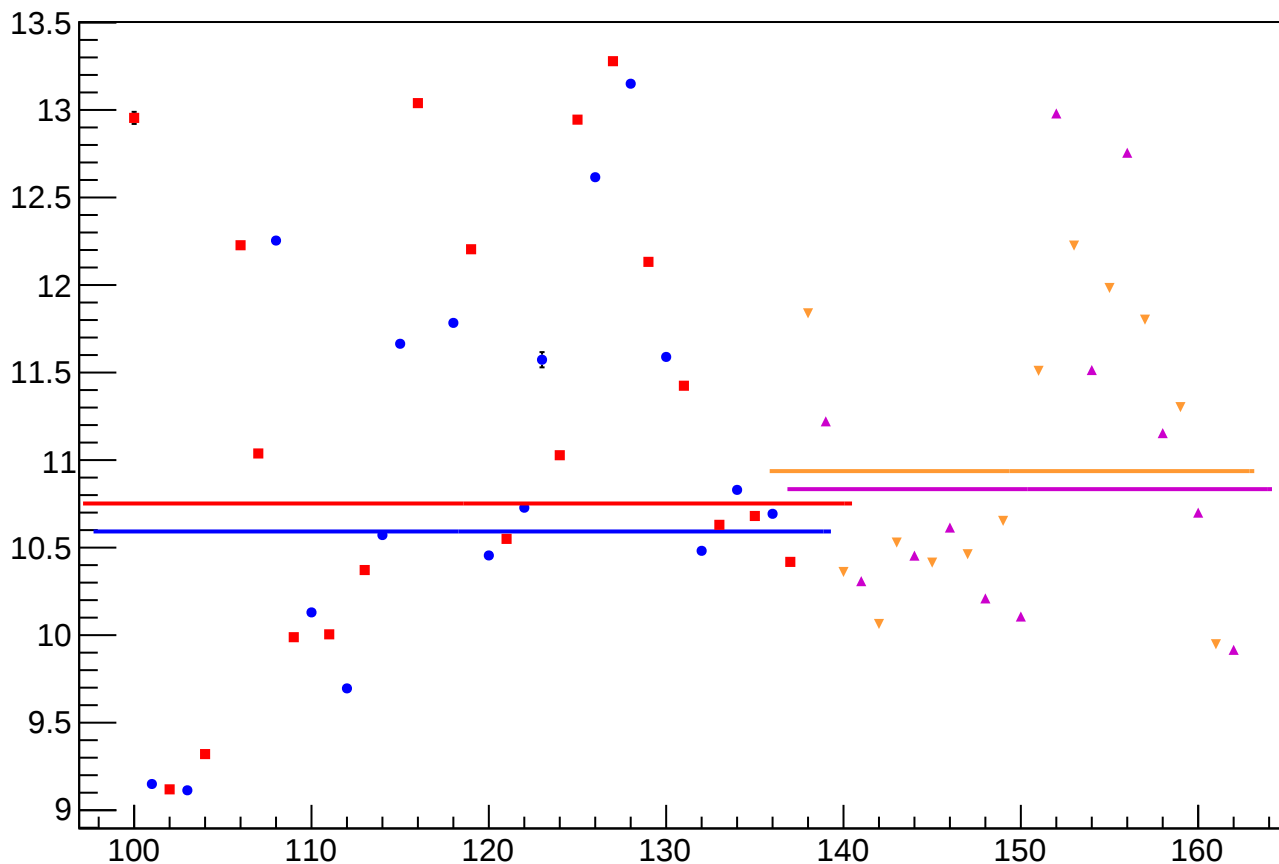
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.733 ± 2.679 χ^2/NDF : 38.1/28

Out: 5.234 ± 2.674 χ^2/NDF : 40.6/31

All: -0.239 ± 1.892 χ^2/NDF : 87.0/60

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.937 $\pm$ 0.003 χ^2 /NDF:88023.2/12

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.834 $\pm$ 0.002 χ^2 /NDF:122677.4/11

Left: 10.885 $\pm$ 0.002 χ^2 /NDF: 211552.5/24

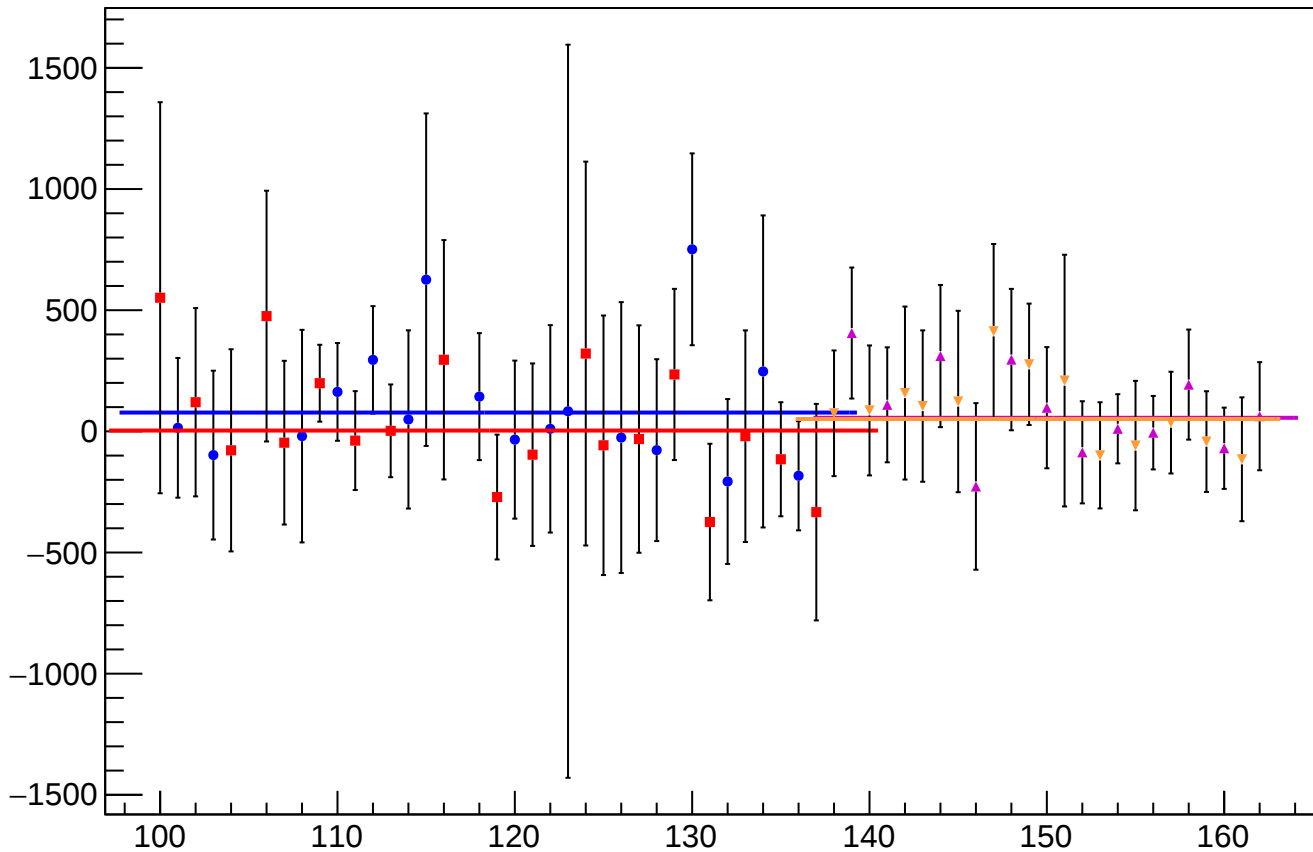
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.732 $\pm$ 0.002 χ^2 /NDF:287043.4/28

Out: 10.857 $\pm$ 0.002 χ^2 /NDF:267264.8/31

All: 10.795 $\pm$ 0.001 χ^2 /NDF: 556491.3/60

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 51.087 $\pm$ 75.089 χ^2 /NDF:3.4/12

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 55.978 $\pm$ 60.926 χ^2 /NDF:5.5/11

Left: 54.037 $\pm$ 47.311 χ^2 /NDF: 8.9/24

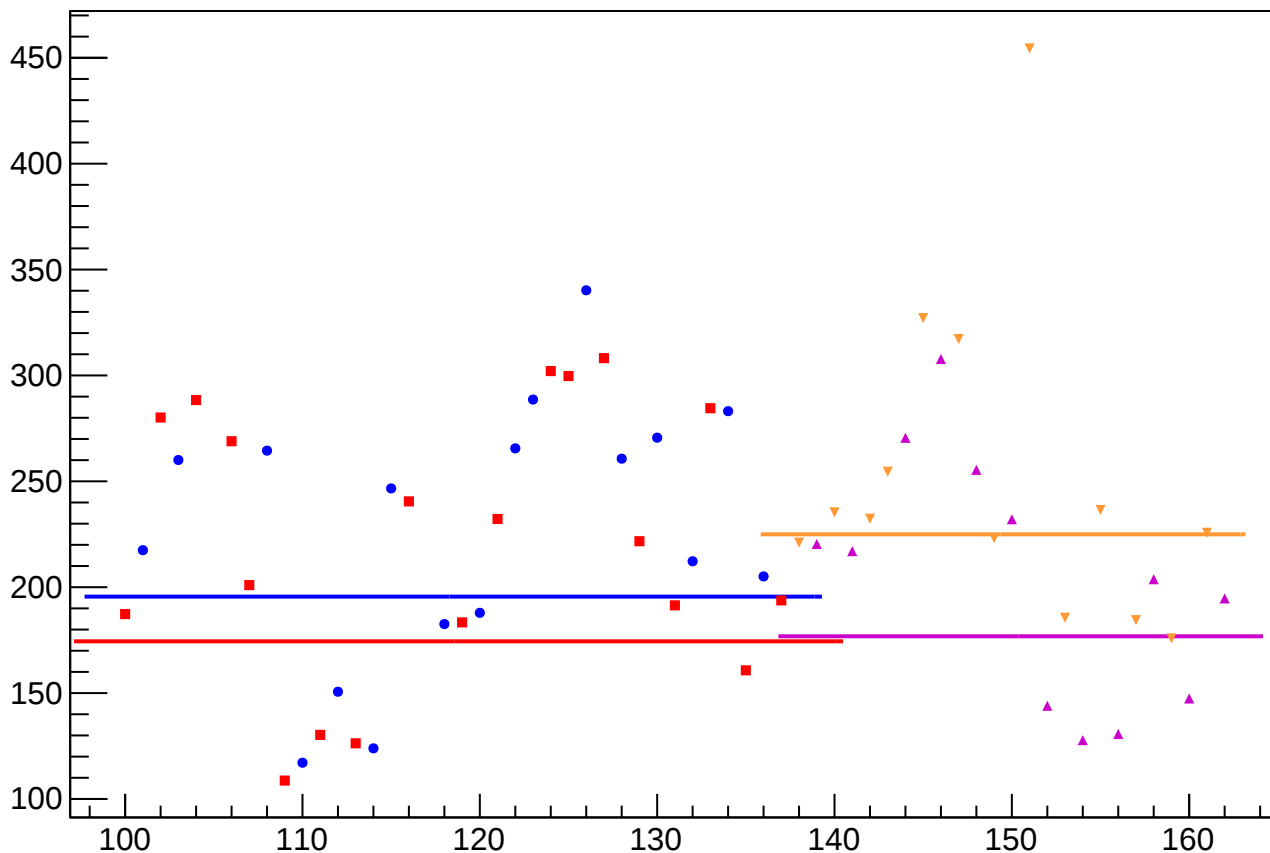
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 63.943 $\pm$ 48.415 χ^2 /NDF:13.1/28

Out: 25.811 $\pm$ 51.534 χ^2 /NDF:10.9/31

All: 46.066 $\pm$ 35.286 χ^2 /NDF: 24.3/60

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 224.981+/-0.053 χ^2/NDF : 947199.9/12

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 176.823+/-0.043 χ^2/NDF : 1418414.9/11

Left: 195.941+/-0.033 χ^2/NDF : 2861666.7/24

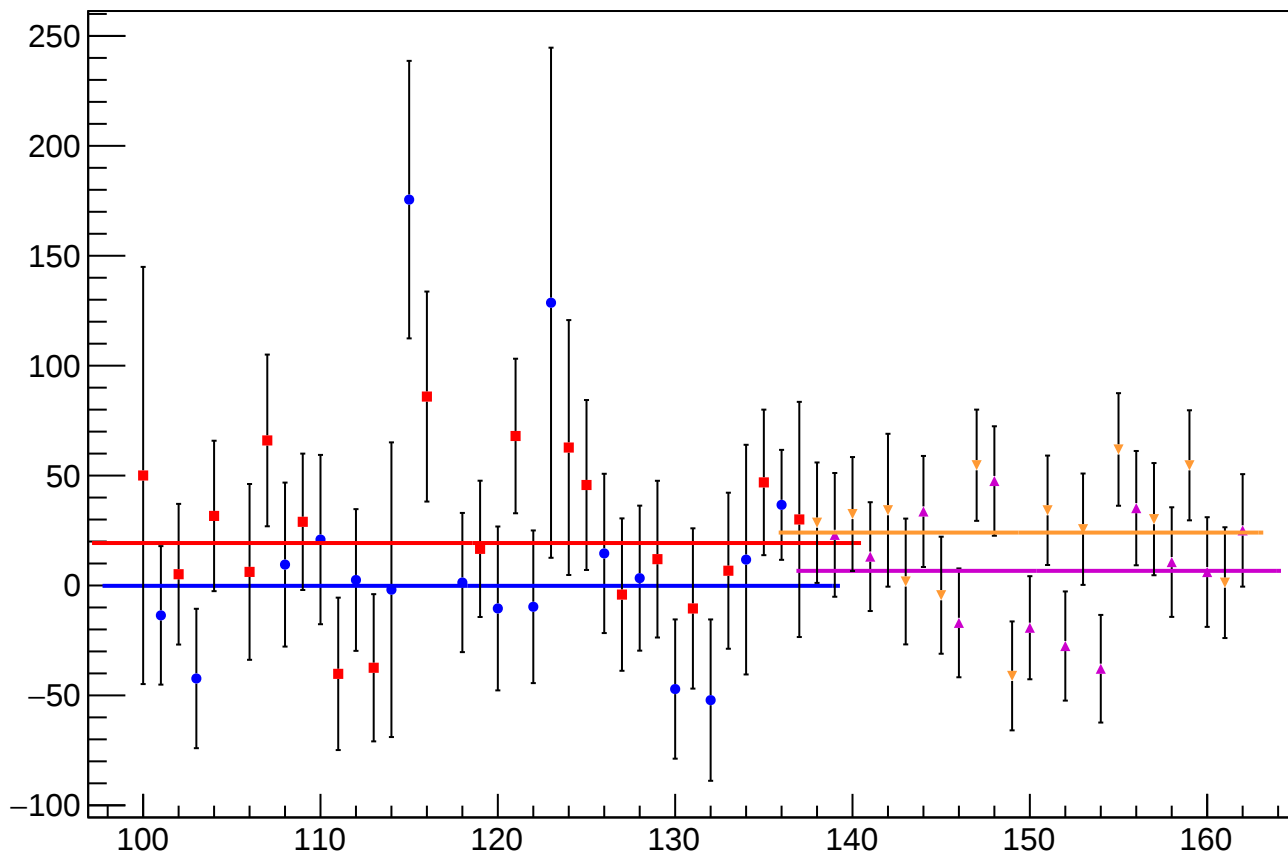
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 183.725+/-0.034 χ^2/NDF : 2467995.9/28

Out: 198.250+/-0.036 χ^2/NDF : 2954951.4/31

All: 190.535+/-0.025 χ^2/NDF : 5507341.6/60

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 χ^2/NDF : 18.1/16

Left Out: 24.068 ± 7.279 χ^2/NDF : 15.1/12

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 6.656 ± 7.248 χ^2/NDF : 13.3/11

Left: 15.325 ± 5.136 χ^2/NDF : 31.3/24

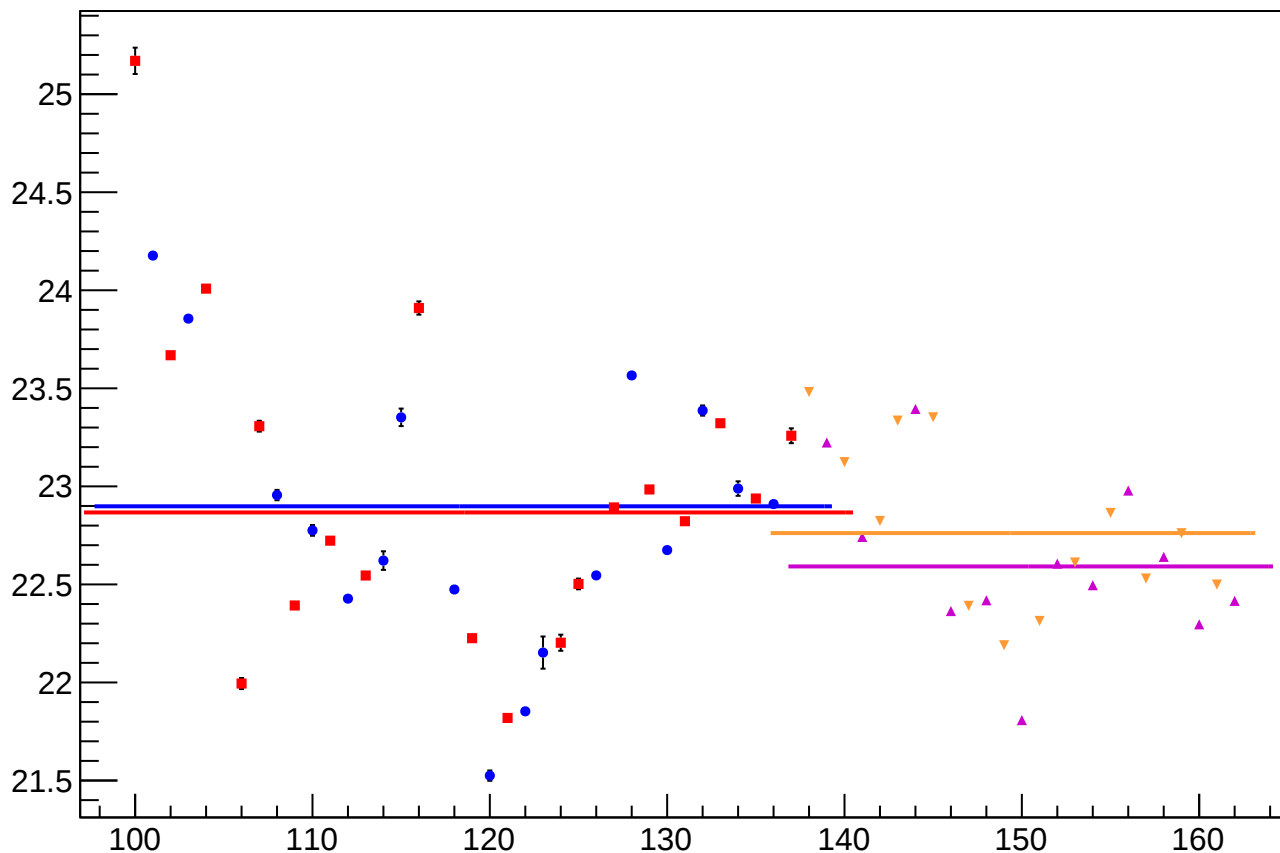
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 3.912 ± 5.601 χ^2/NDF : 31.7/28

Out: 22.072 ± 5.543 χ^2/NDF : 30.1/31

All: 13.086 ± 3.940 χ^2/NDF : 67.1/60

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2 /NDF: 12143.3/16

Left Out: 22.762 $\pm$ 0.005 χ^2 /NDF: 6191.7/12

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.592 $\pm$ 0.005 χ^2 /NDF: 6457.8/11

Left: 22.676 $\pm$ 0.004 χ^2 /NDF: 13198.5/24

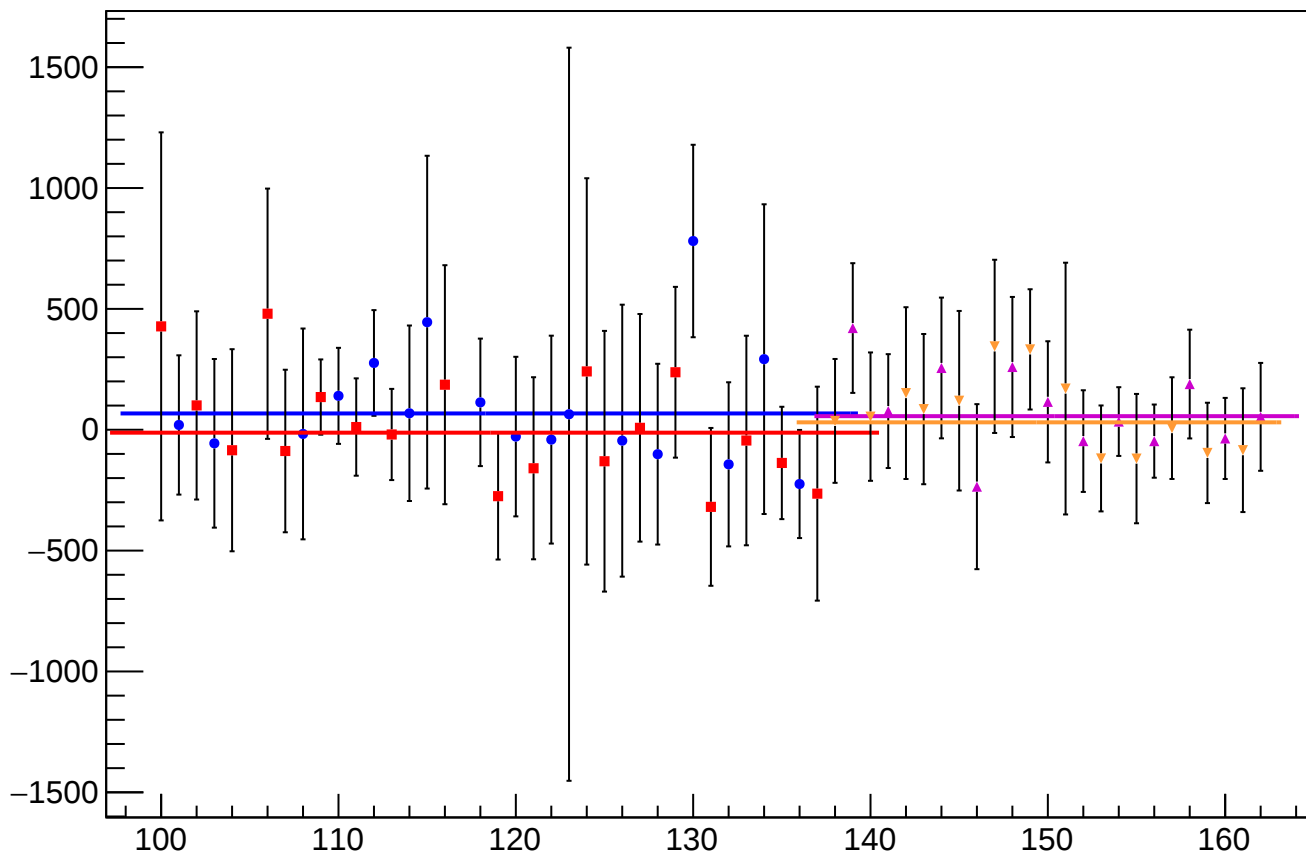
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.715 $\pm$ 0.004 χ^2 /NDF: 20043.1/28

Out: 22.806 $\pm$ 0.004 χ^2 /NDF: 17415.3/31

All: 22.761 $\pm$ 0.003 χ^2 /NDF: 37724.2/60

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 30.634 $\pm$ 74.864 χ^2 /NDF:3.9/12

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 56.213 $\pm$ 60.723 χ^2 /NDF:5.0/11

Left: 46.063 $\pm$ 47.160 χ^2 /NDF: 8.9/24

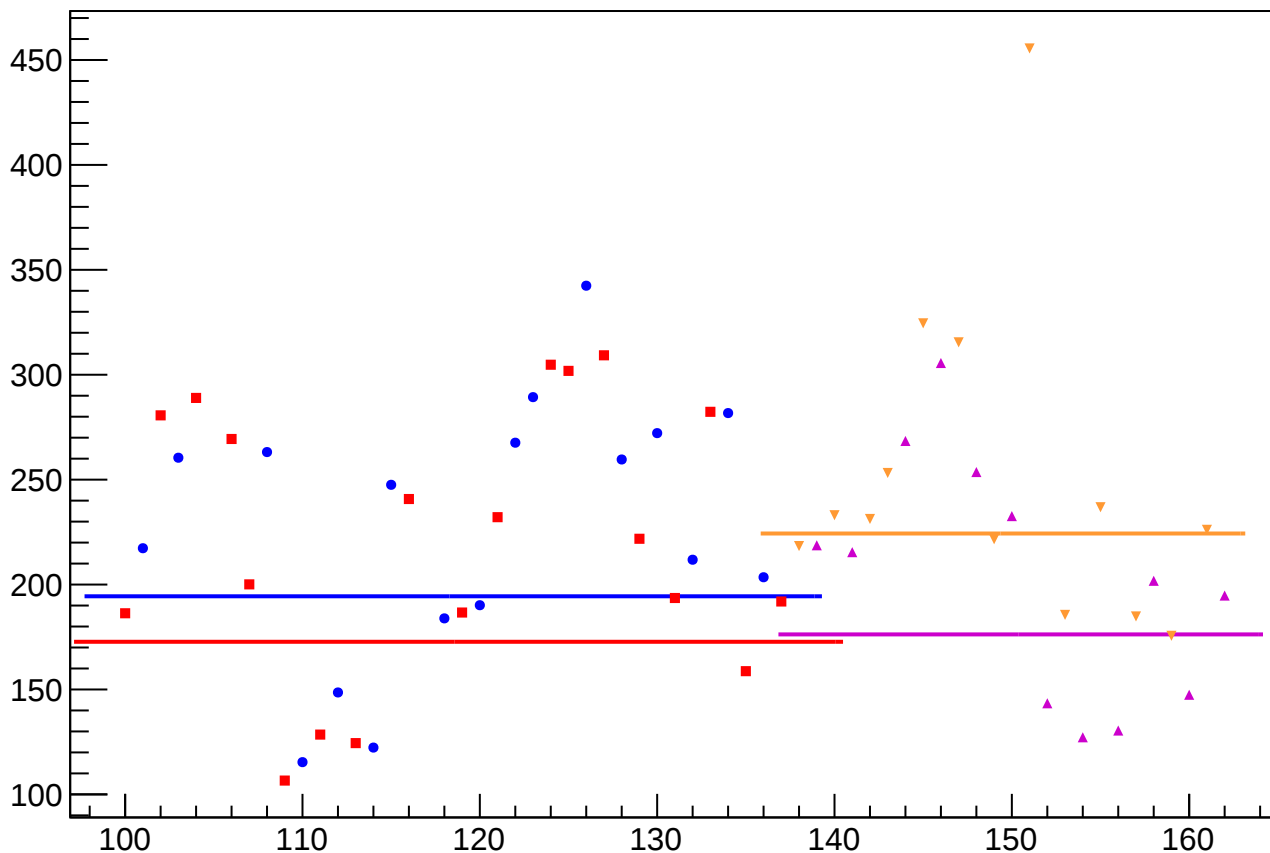
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 60.359 $\pm$ 48.235 χ^2 /NDF:12.4/28

Out: 7.932 $\pm$ 51.269 χ^2 /NDF:9.8/31

All: 35.743 $\pm$ 35.131 χ^2 /NDF: 22.7/60

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411+/-0.056 χ^2/NDF : 1019913.2/16

Left Out: 224.331+/-0.053 χ^2/NDF : 938396.5/12

Right Out: 172.730+/-0.050 χ^2/NDF : 1596758.0/18

Left In: 176.247+/-0.043 χ^2/NDF : 1405024.8/11

Left: 195.328+/-0.033 χ^2/NDF : 2841078.2/24

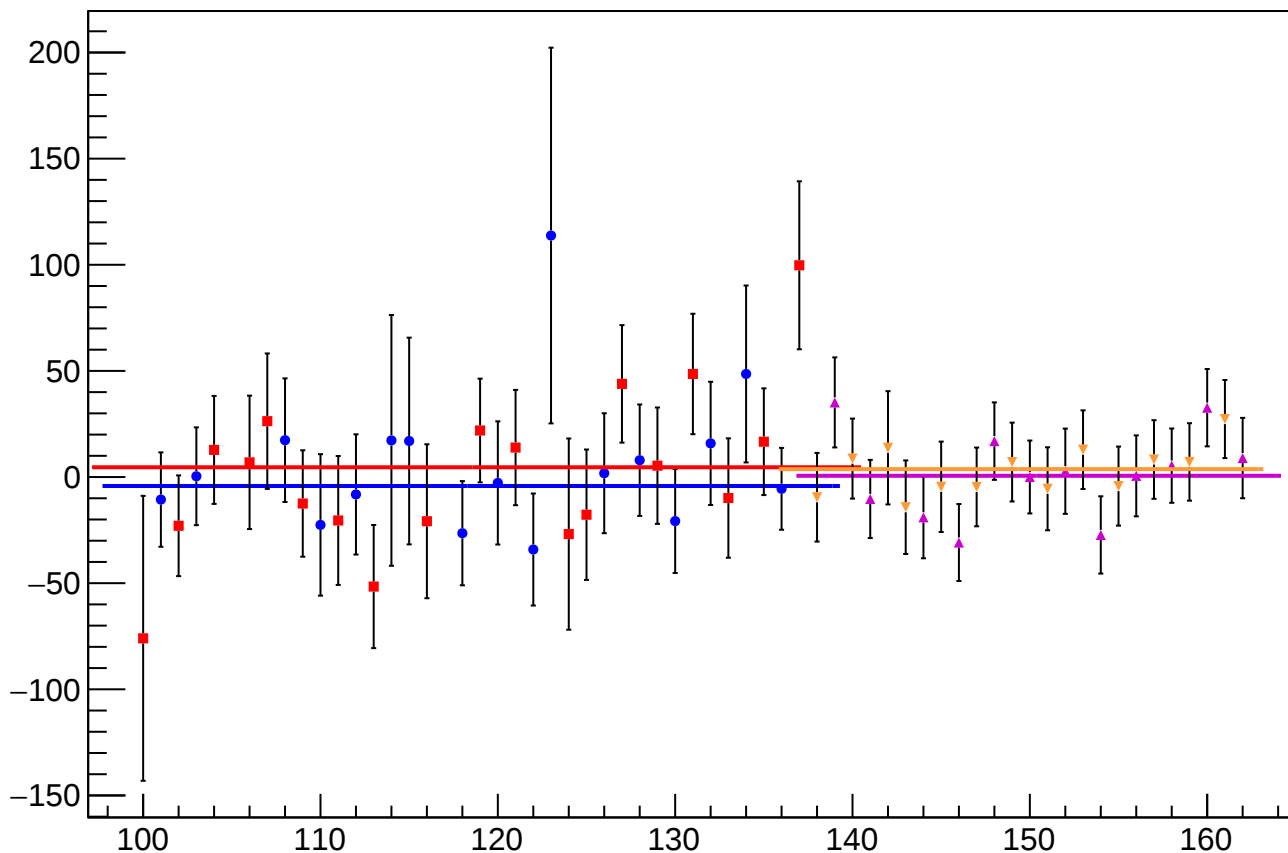
Right: 182.265+/-0.037 χ^2/NDF : 2700196.8/35

In: 182.949+/-0.034 χ^2/NDF : 2490972.5/28

Out: 196.930+/-0.036 χ^2/NDF : 3039707.0/31

All: 189.514+/-0.025 χ^2/NDF : 5609569.8/60

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 $\chi^2/\text{NDF}: 8.0/16$

Left Out: 3.736 ± 5.434 $\chi^2/\text{NDF}: 4.1/12$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 0.601 ± 5.375 $\chi^2/\text{NDF}: 13.6/11$

Left: 2.151 ± 3.821 $\chi^2/\text{NDF}: 17.8/24$

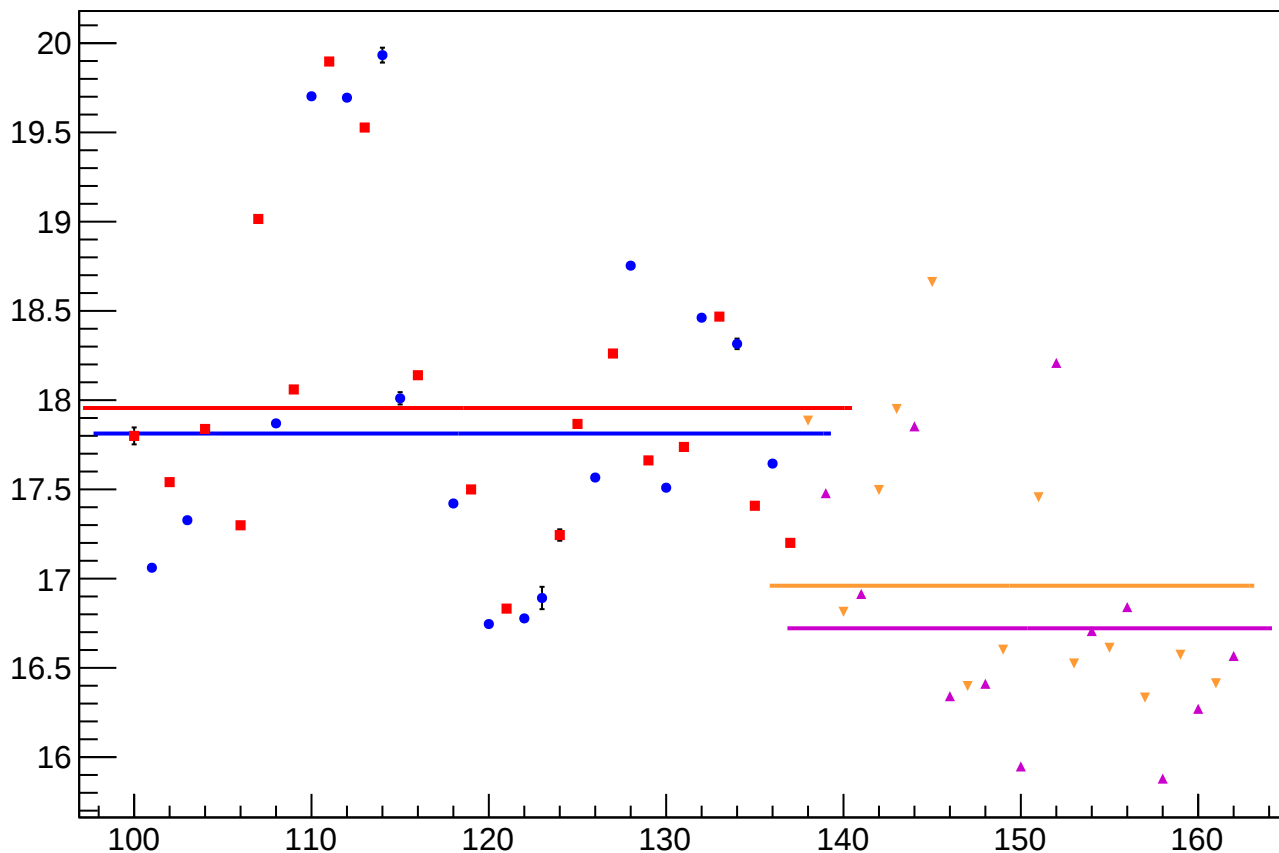
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: -1.230 ± 4.234 $\chi^2/\text{NDF}: 21.9/28$

Out: 4.077 ± 4.226 $\chi^2/\text{NDF}: 25.1/31$

All: 1.428 ± 2.991 $\chi^2/\text{NDF}: 47.8/60$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 16.960 $\pm$ 0.004 χ^2 /NDF: 32289.7/12

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.722 $\pm$ 0.004 χ^2 /NDF: 32206.1/11

Left: 16.840 $\pm$ 0.003 χ^2 /NDF: 66443.9/24

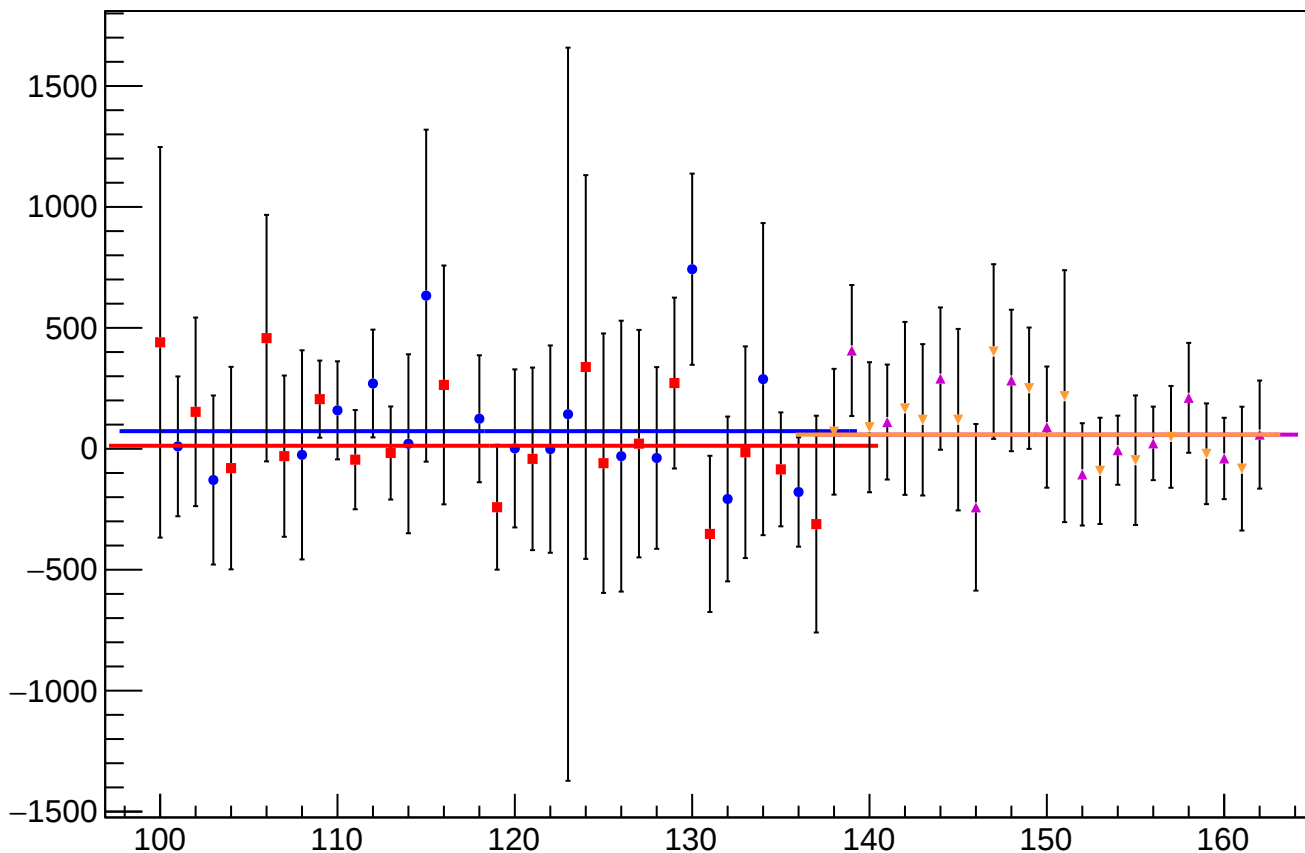
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.136 $\pm$ 0.003 χ^2 /NDF: 95532.4/28

Out: 17.354 $\pm$ 0.003 χ^2 /NDF: 84259.1/31

All: 17.245 $\pm$ 0.002 χ^2 /NDF: 182436.2/60

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888 $\pm$ 79.948 χ^2 /NDF: 7.2/16

Left Out: 58.757 $\pm$ 75.261 χ^2 /NDF:2.8/12

Right Out: 12.565 $\pm$ 71.013 χ^2 /NDF: 6.7/18

Left In: 58.576 $\pm$ 61.050 χ^2 /NDF:5.3/11

Left: 58.648 $\pm$ 47.413 χ^2 /NDF: 8.2/24

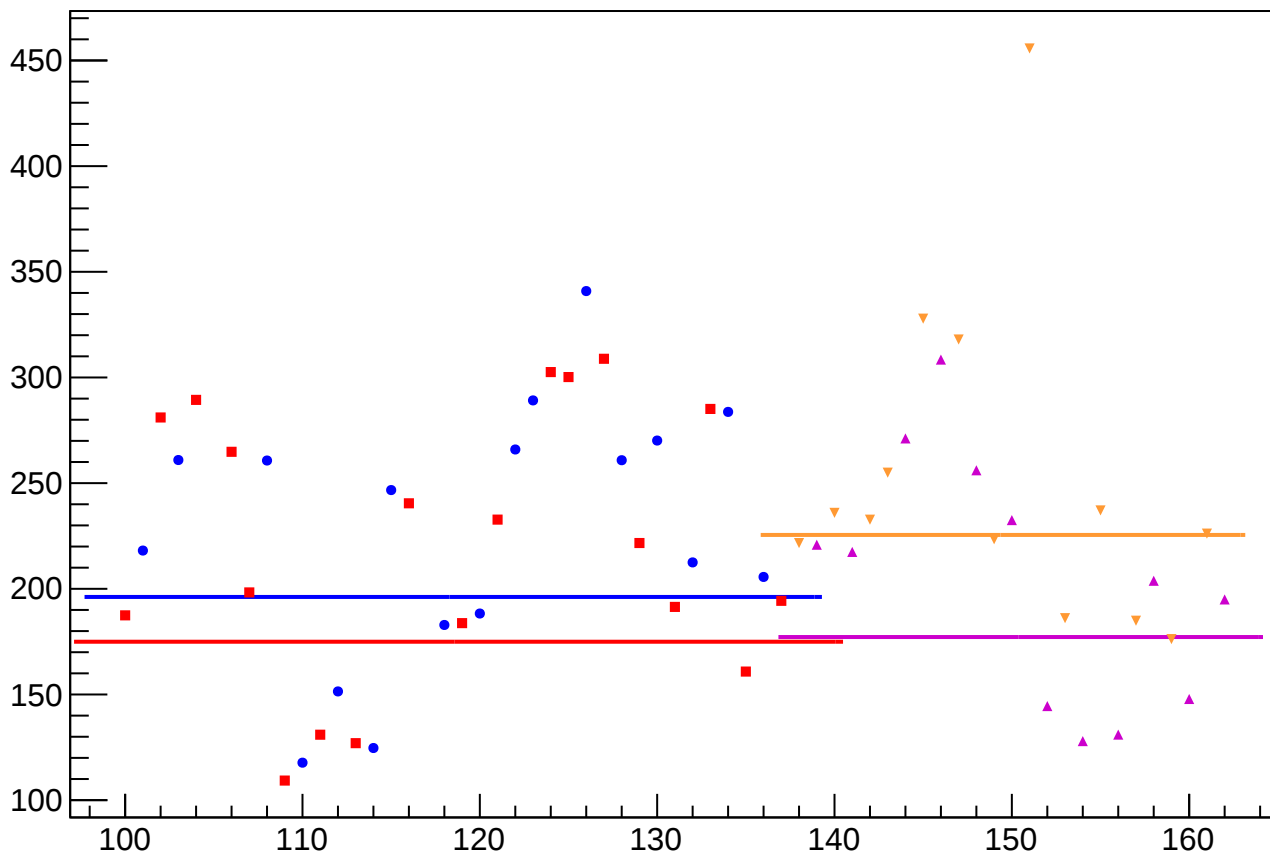
Right: 39.168 $\pm$ 53.093 χ^2 /NDF: 14.3/35

In: 63.848 $\pm$ 48.521 χ^2 /NDF:12.6/28

Out: 34.320 $\pm$ 51.650 χ^2 /NDF:9.8/31

All: 50.005 $\pm$ 35.364 χ^2 /NDF: 22.5/60

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151+/-0.057 χ^2/NDF : 964998.4/16

Left Out: 225.495+/-0.053 χ^2/NDF : 947134.0/12

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 177.185+/-0.043 χ^2/NDF : 1417705.1/11

Left: 196.358+/-0.034 χ^2/NDF : 2861876.9/24

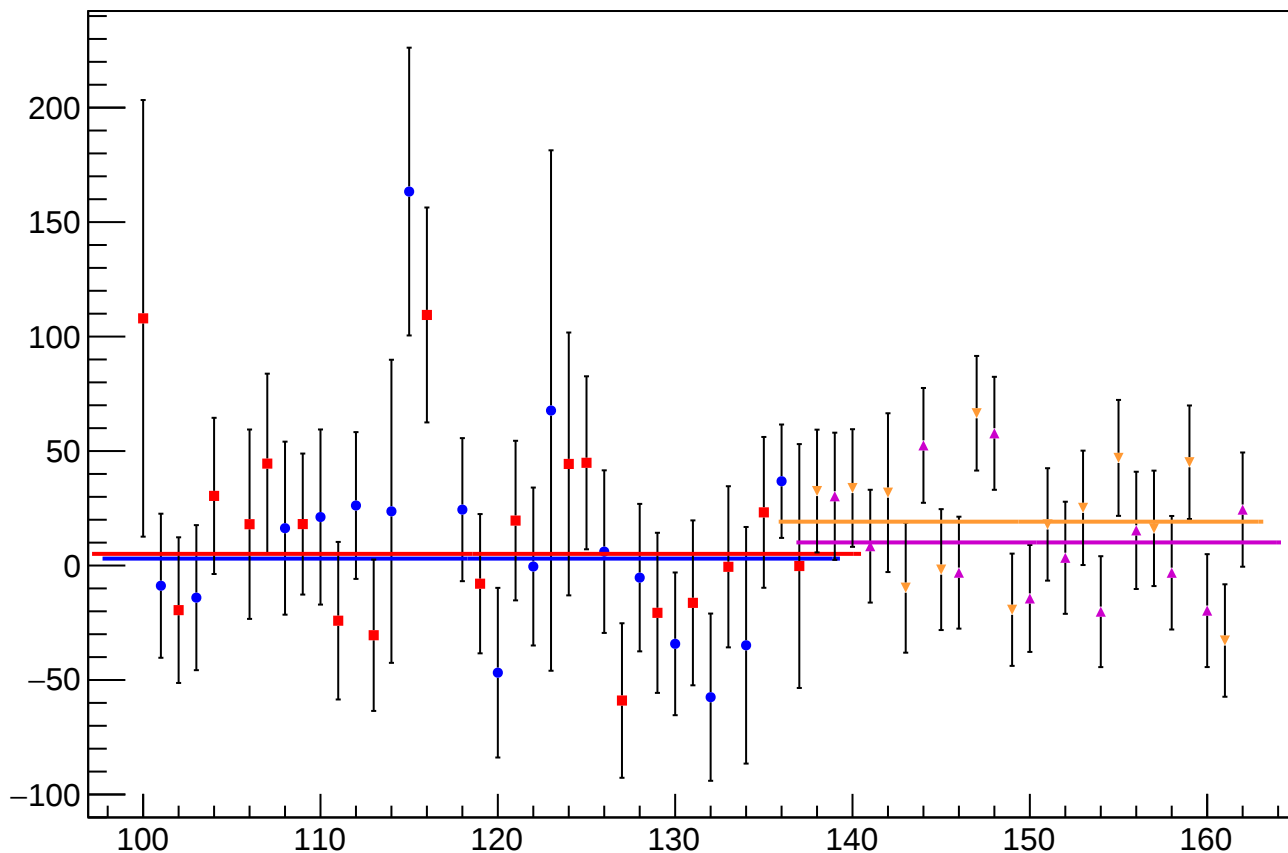
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.171+/-0.034 χ^2/NDF : 2453801.7/28

Out: 198.764+/-0.037 χ^2/NDF : 2935039.5/31

All: 191.012+/-0.025 χ^2/NDF : 5473651.4/60

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 19.155 ± 7.188 $\chi^2/\text{NDF}: 15.3/12$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 10.088 ± 7.169 $\chi^2/\text{NDF}: 12.3/11$

Left: 14.609 ± 5.076 $\chi^2/\text{NDF}: 28.3/24$

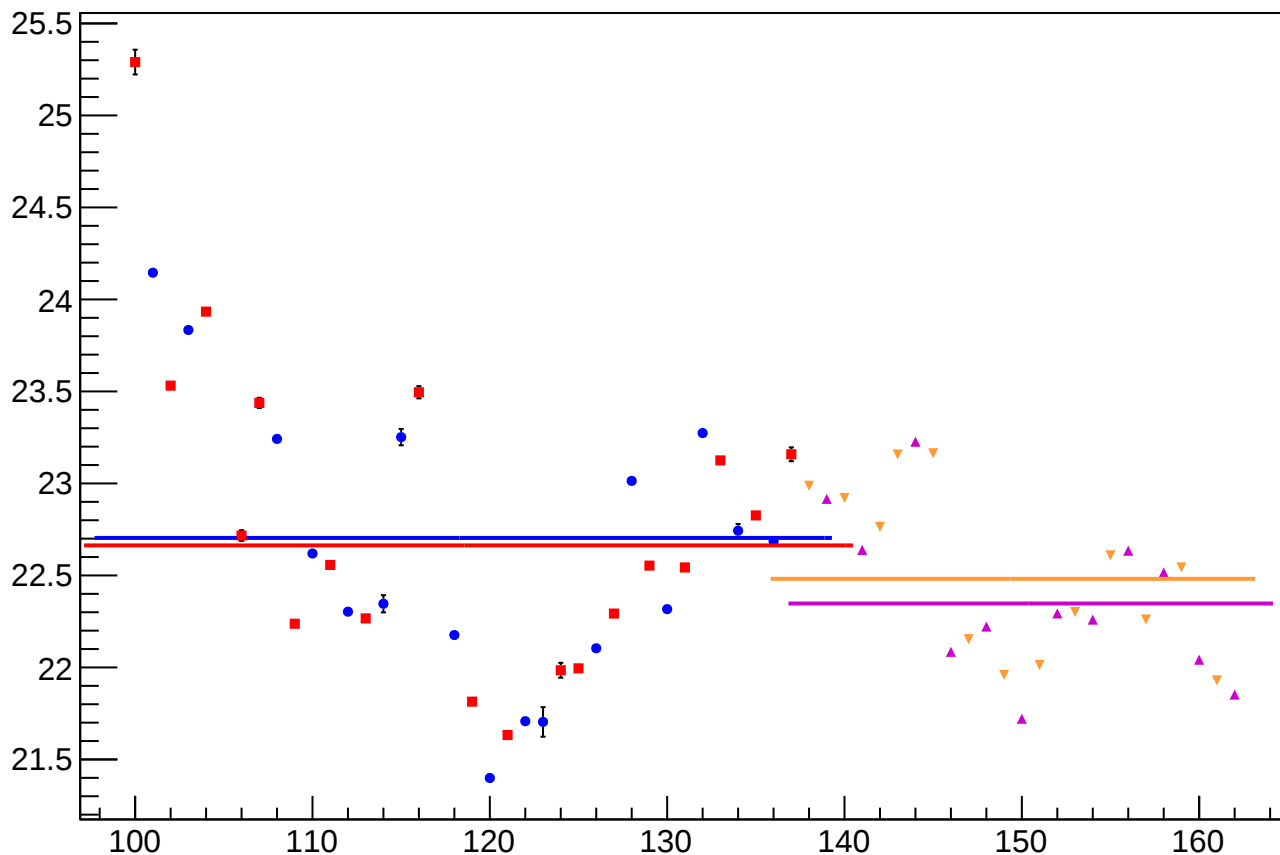
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 7.250 ± 5.546 $\chi^2/\text{NDF}: 29.8/28$

Out: 13.273 ± 5.483 $\chi^2/\text{NDF}: 34.0/31$

All: 10.296 ± 3.899 $\chi^2/\text{NDF}: 64.5/60$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.704 $\pm$ 0.006 χ^2 /NDF: 14105.8/16

Left Out: 22.482 $\pm$ 0.005 χ^2 /NDF: 7206.1/12

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.347 $\pm$ 0.005 χ^2 /NDF: 6770.0/11

Left: 22.414 $\pm$ 0.004 χ^2 /NDF: 14325.5/24

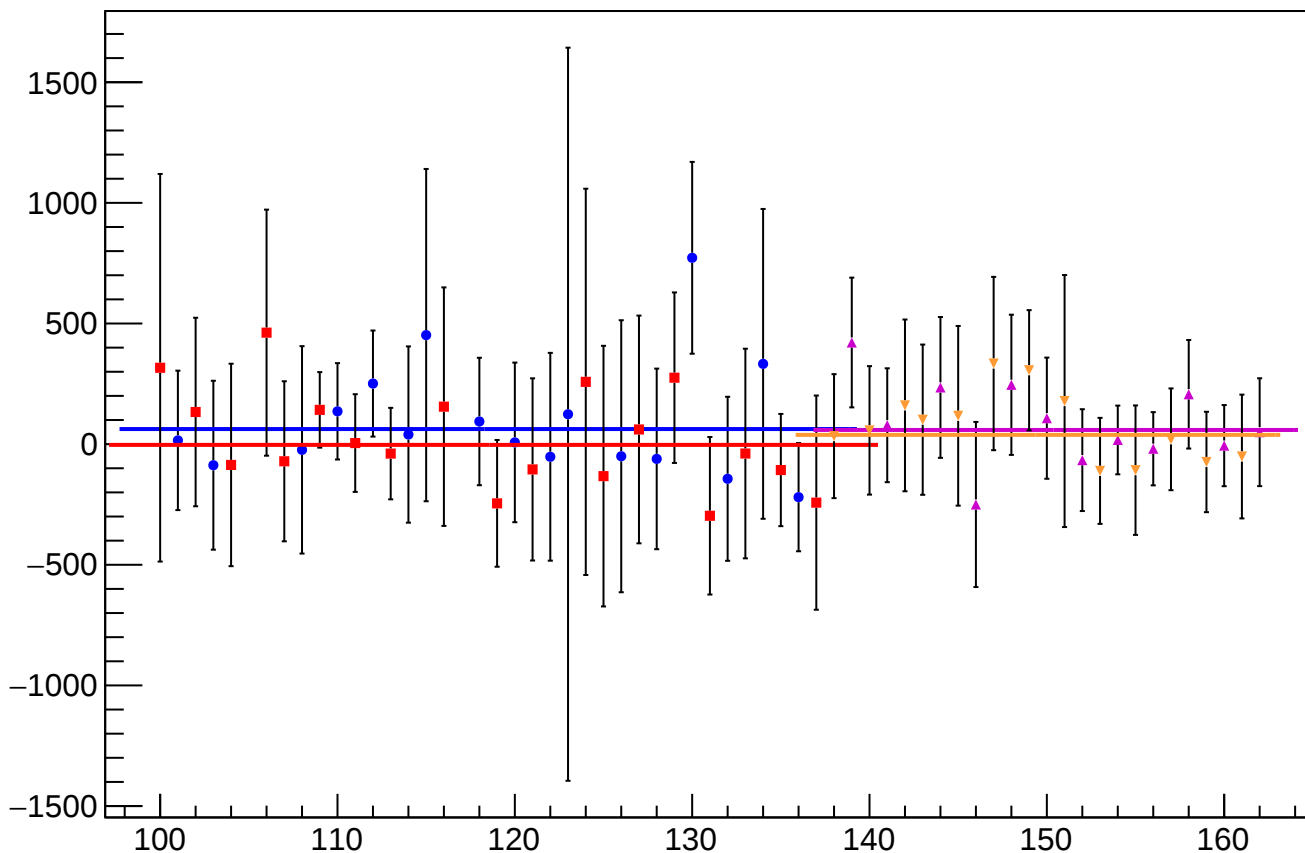
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.491 $\pm$ 0.004 χ^2 /NDF: 22862.0/28

Out: 22.558 $\pm$ 0.004 χ^2 /NDF: 20683.4/31

All: 22.524 $\pm$ 0.003 χ^2 /NDF: 43692.9/60

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 38.385+/-75.036 χ^2/NDF : 3.3/12

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 58.763+/-60.846 χ^2/NDF : 4.7/11

Left: 50.679+/-47.261 χ^2/NDF : 8.1/24

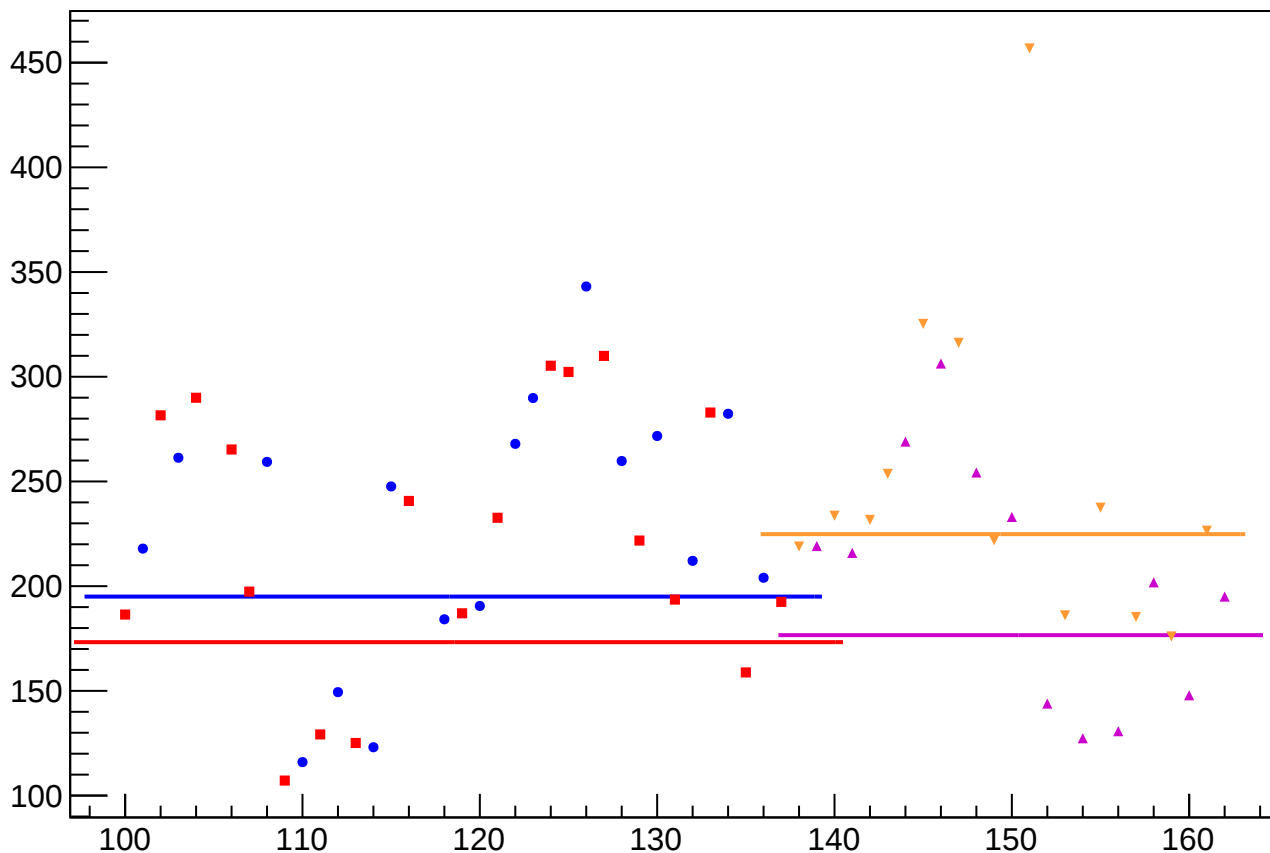
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 60.168+/-48.342 χ^2/NDF : 11.8/28

Out: 16.389+/-51.387 χ^2/NDF : 8.7/31

All: 39.614+/-35.210 χ^2/NDF : 20.8/60

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022+/-0.056 χ^2/NDF : 1004284.9/16

Left Out: 224.845+/-0.053 χ^2/NDF : 938360.9/12

Right Out: 173.262+/-0.050 χ^2/NDF : 1578202.7/18

Left In: 176.607+/-0.043 χ^2/NDF : 1404404.1/11

Left: 195.743+/-0.033 χ^2/NDF : 2841413.1/24

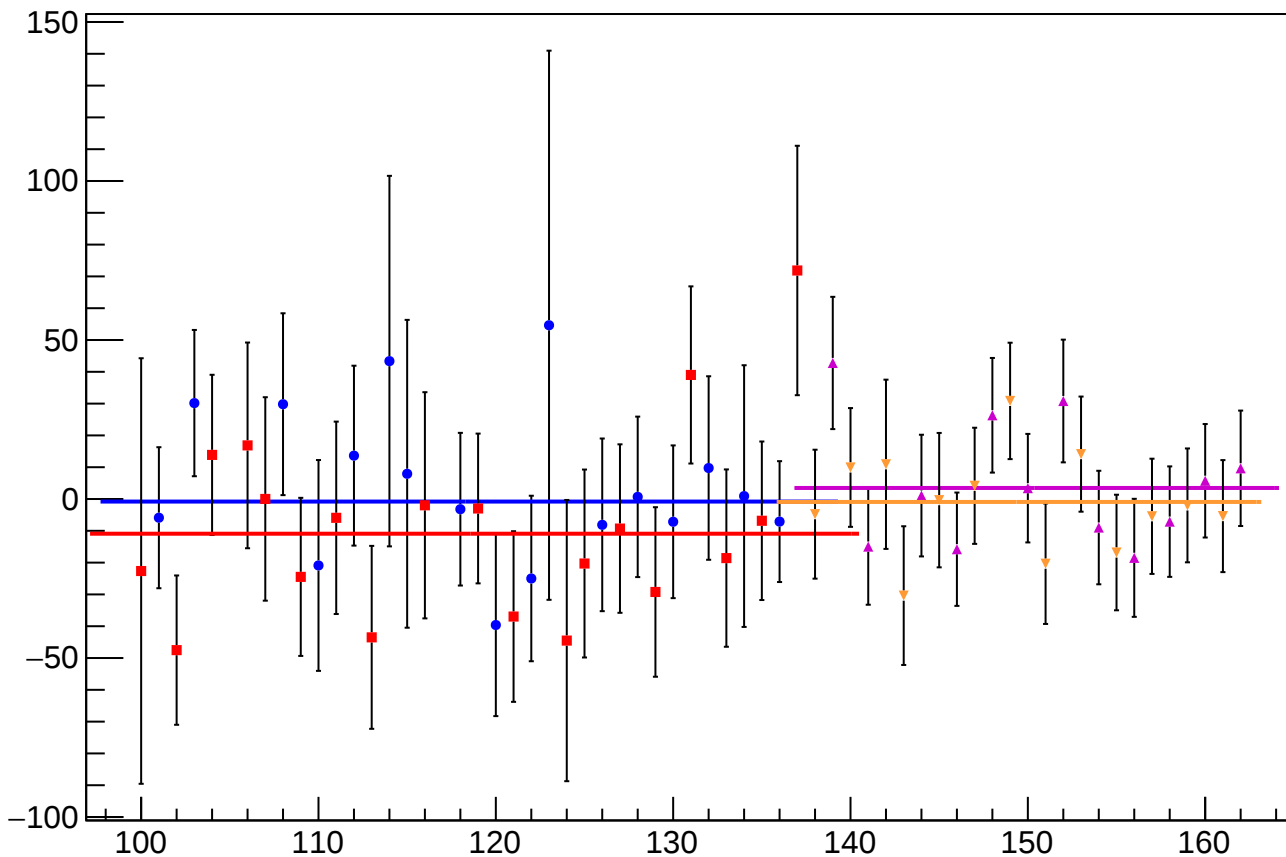
Right: 182.829+/-0.037 χ^2/NDF : 2666222.6/35

In: 183.398+/-0.034 χ^2/NDF : 2476243.9/28

Out: 197.453+/-0.036 χ^2/NDF : 3018456.9/31

All: 189.997+/-0.025 χ^2/NDF : 5574077.1/60

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: -0.921 ± 5.323 χ^2/NDF : 8.1/12

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 3.475 ± 5.276 χ^2/NDF : 11.8/11

Left: 1.296 ± 3.747 χ^2/NDF : 20.2/24

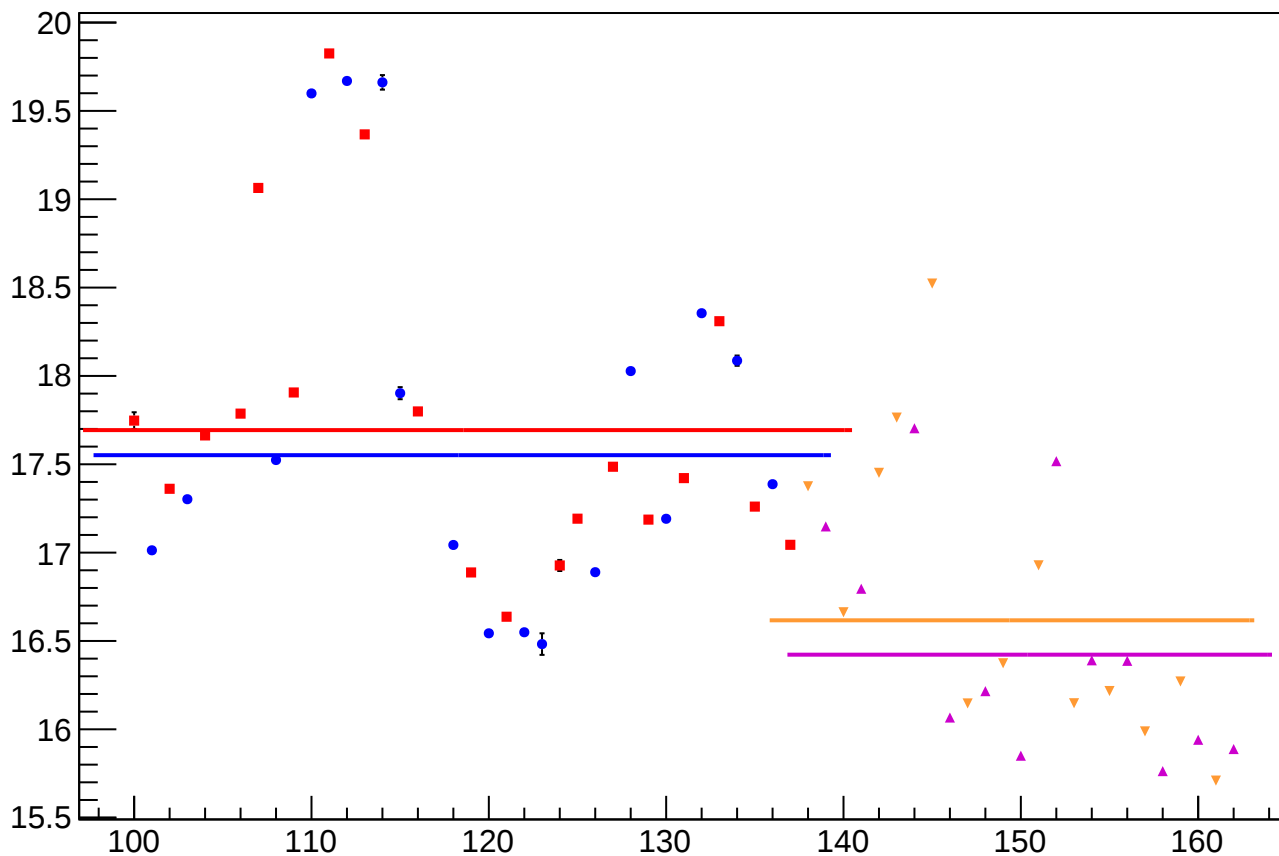
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 1.859 ± 4.162 χ^2/NDF : 19.8/28

Out: -4.839 ± 4.150 χ^2/NDF : 25.4/31

All: -1.500 ± 2.939 χ^2/NDF : 46.5/60

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 $\pm$ 0.005 χ^2 /NDF: 34027.1/16

Left Out: 16.617 $\pm$ 0.004 χ^2 /NDF:39584.2/12

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.422 $\pm$ 0.004 χ^2 /NDF:28074.7/11

Left: 16.519 $\pm$ 0.003 χ^2 /NDF: 69005.7/24

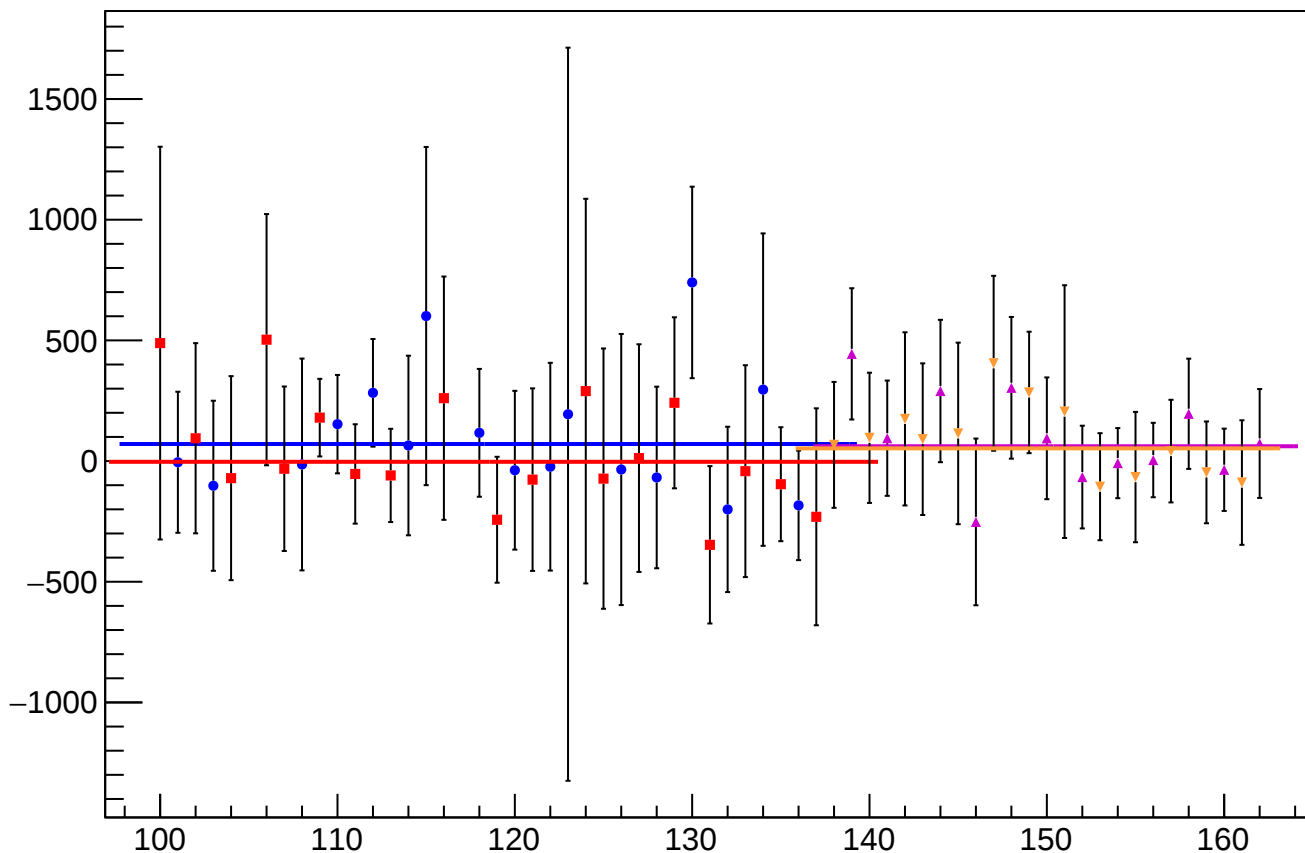
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.849 $\pm$ 0.003 χ^2 /NDF:96711.6/28

Out: 17.039 $\pm$ 0.003 χ^2 /NDF:102409.8/31

All: 16.944 $\pm$ 0.002 χ^2 /NDF: 201211.6/60

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 52.688+/-75.772 χ^2/NDF : 3.3/12

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 61.356+/-61.652 χ^2/NDF : 5.5/11

Left: 57.903+/-47.822 χ^2/NDF : 8.8/24

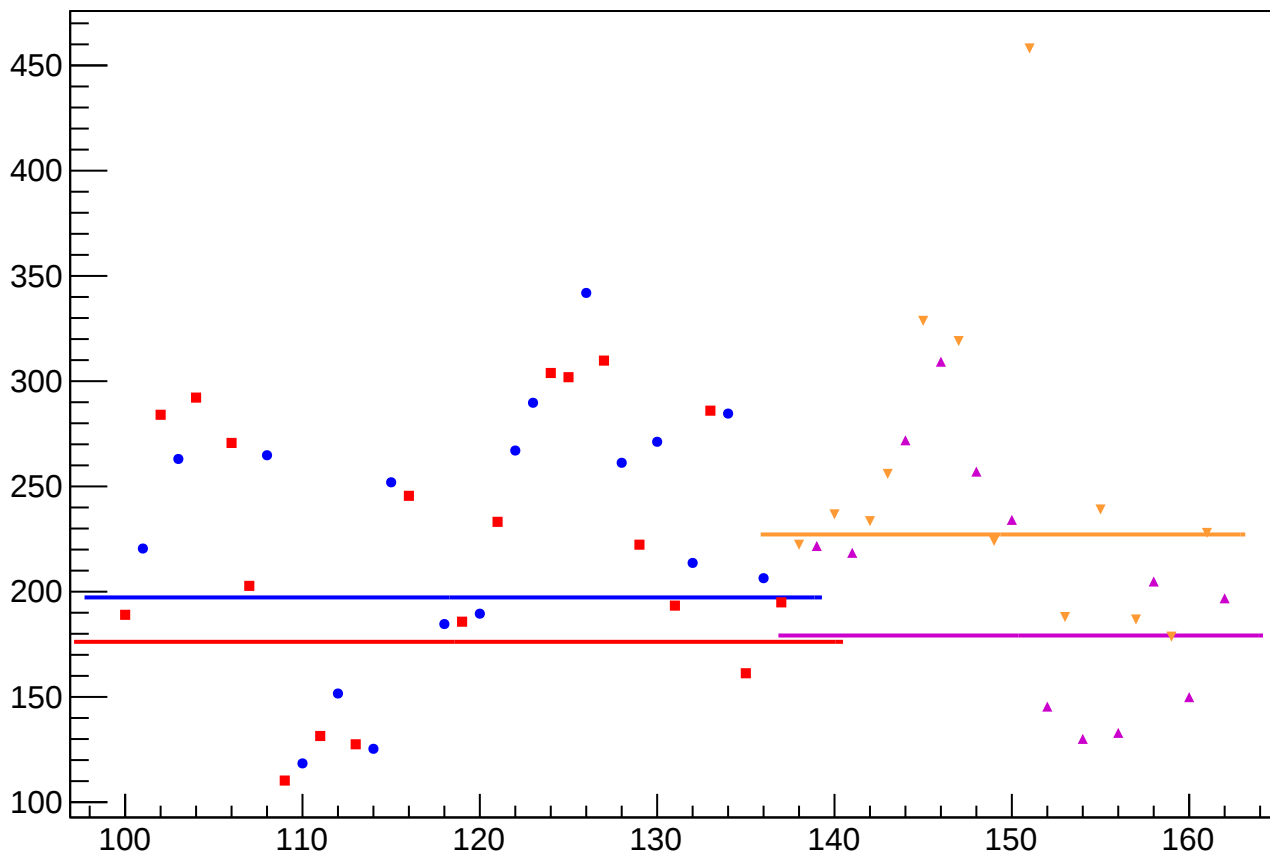
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 64.791+/-48.926 χ^2/NDF : 12.7/28

Out: 23.199+/-52.006 χ^2/NDF : 9.8/31

All: 45.263+/-35.635 χ^2/NDF : 22.8/60

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 227.184+/-0.054 χ^2/NDF : 928696.1/12

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 179.179+/-0.044 χ^2/NDF : 1375563.6/11

Left: 198.301+/-0.034 χ^2/NDF : 2787249.4/24

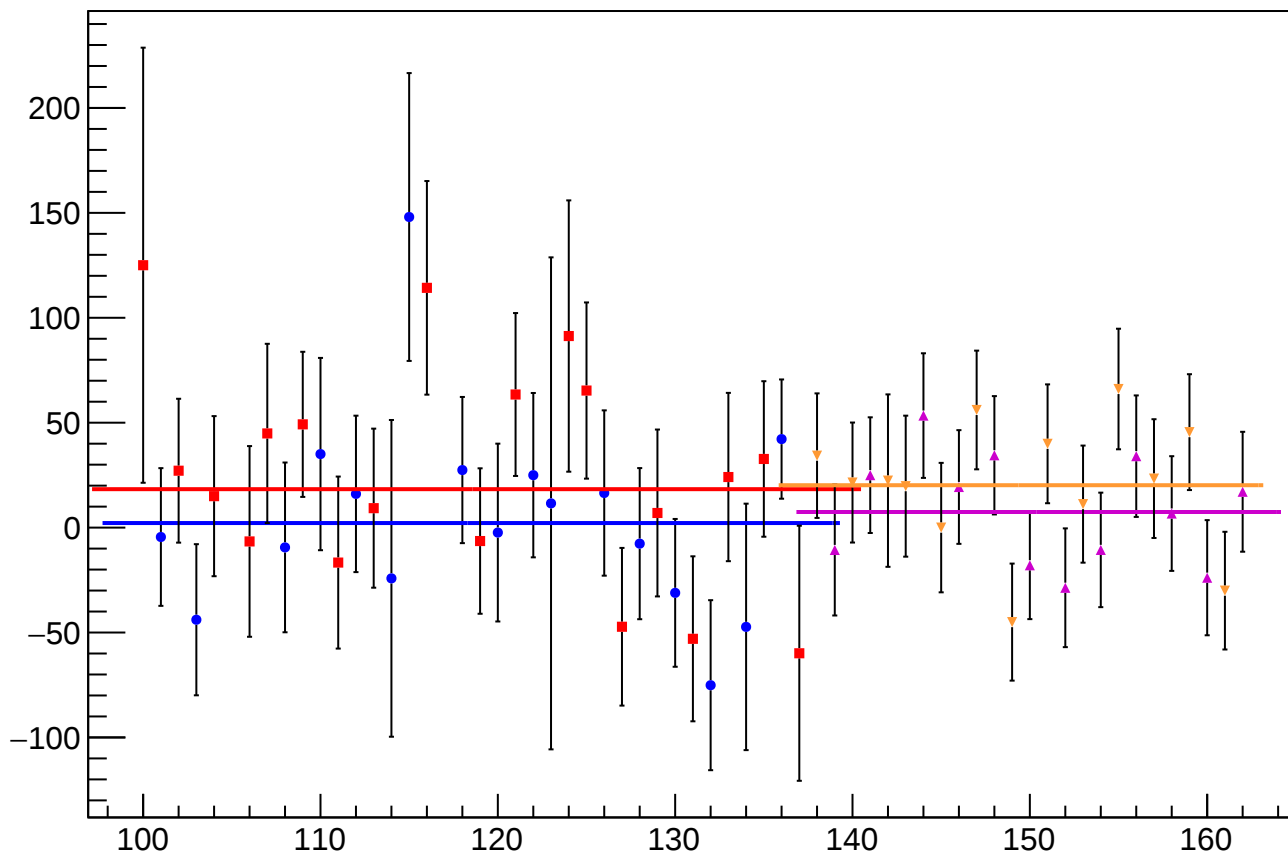
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 185.877+/-0.035 χ^2/NDF : 2408877.8/28

Out: 200.207+/-0.037 χ^2/NDF : 2927700.3/31

All: 192.605+/-0.025 χ^2/NDF : 5417125.1/60

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 20.204 ± 8.166 $\chi^2/\text{NDF}: 14.9/12$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: 7.439 ± 8.087 $\chi^2/\text{NDF}: 9.6/11$

Left: 13.760 ± 5.746 $\chi^2/\text{NDF}: 25.7/24$

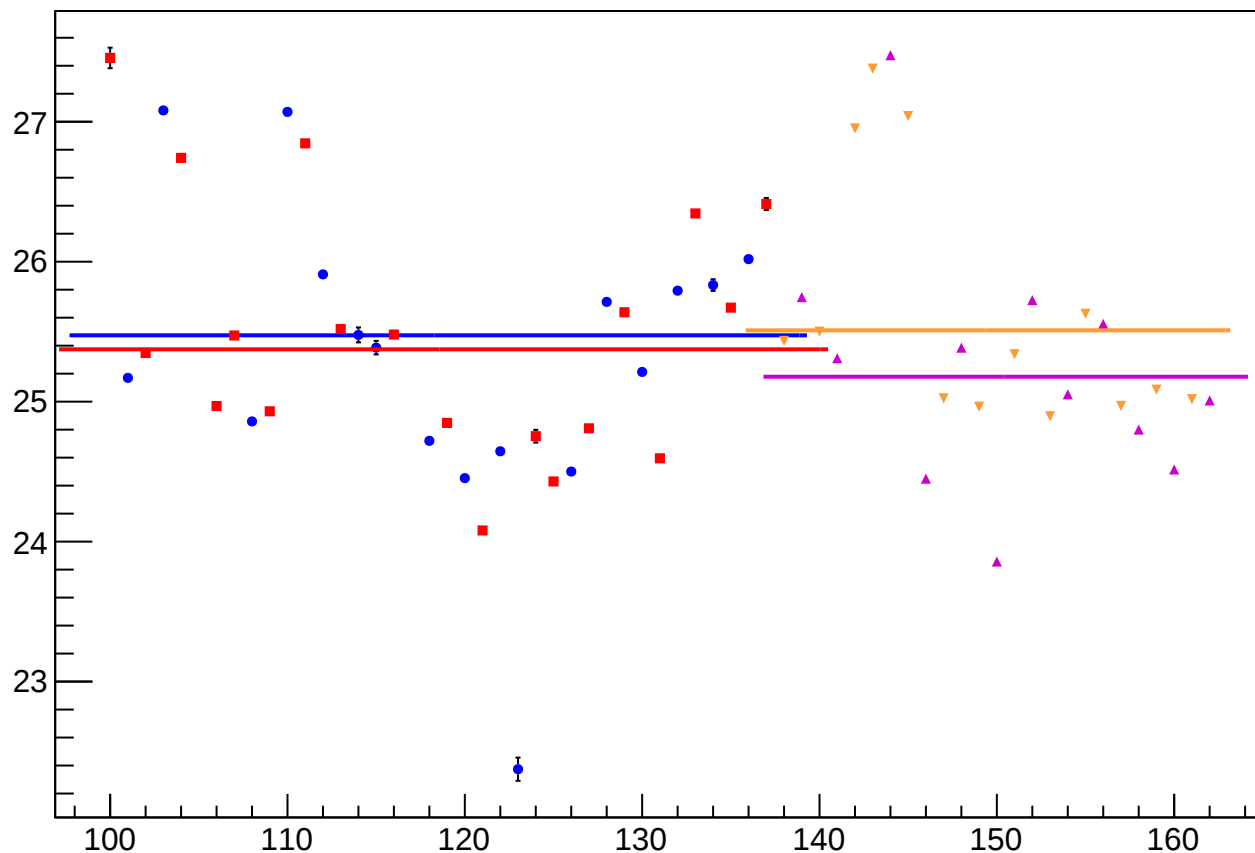
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 5.314 ± 6.244 $\chi^2/\text{NDF}: 25.1/28$

Out: 19.403 ± 6.192 $\chi^2/\text{NDF}: 34.5/31$

All: 12.418 ± 4.397 $\chi^2/\text{NDF}: 62.2/60$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474 $\pm$ 0.007 χ^2 /NDF: 14061.2/16

Left Out: 25.510 $\pm$ 0.006 χ^2 /NDF:17846.5/12

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.178 $\pm$ 0.006 χ^2 /NDF:22274.8/11

Left: 25.342 $\pm$ 0.004 χ^2 /NDF: 41785.1/24

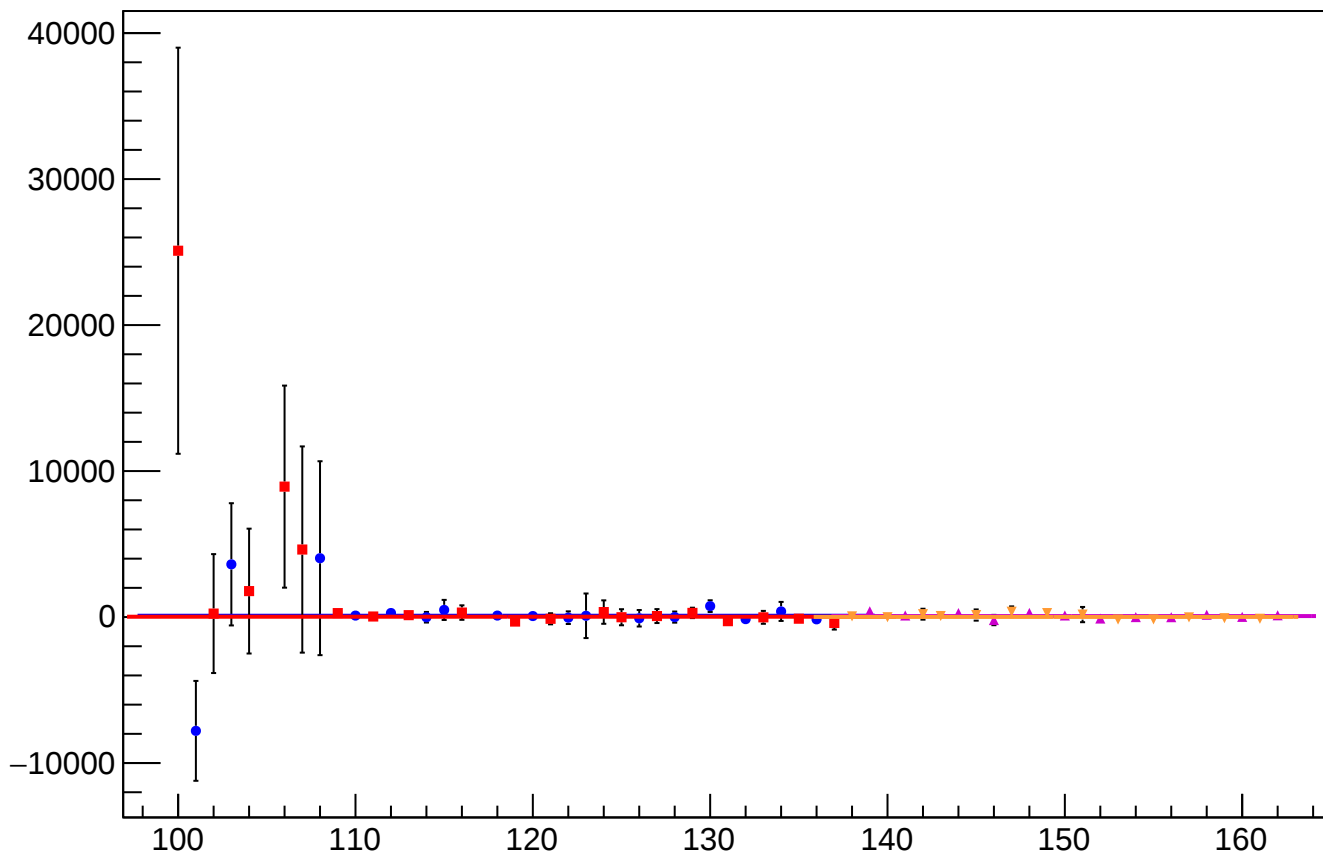
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.298 $\pm$ 0.004 χ^2 /NDF:37416.6/28

Out: 25.452 $\pm$ 0.004 χ^2 /NDF:31662.3/31

All: 25.375 $\pm$ 0.003 χ^2 /NDF: 69695.2/60

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: 9.062+/-77.178 χ^2/NDF : 3.9/12

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 67.420+/-62.688 χ^2/NDF : 4.5/11

Left: 44.222+/-48.659 χ^2/NDF : 8.7/24

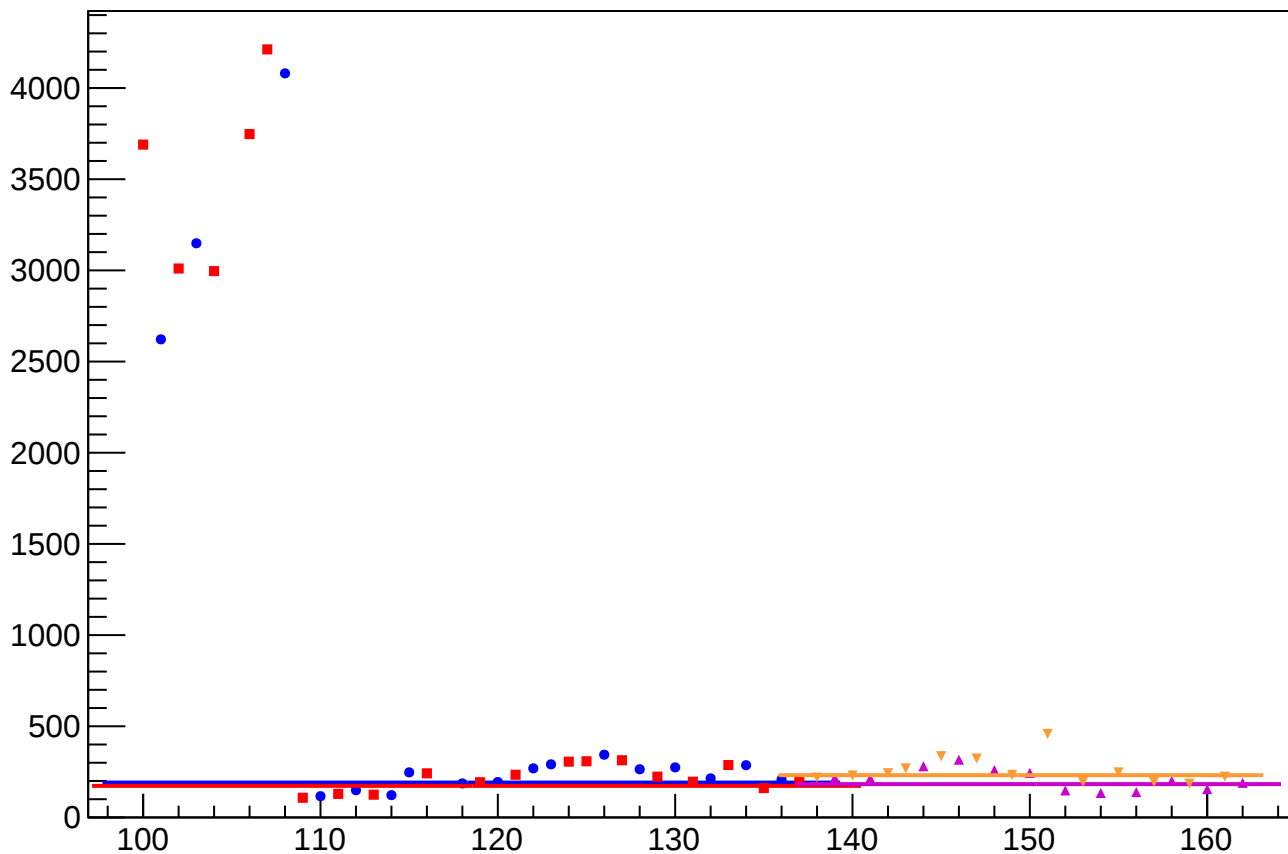
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 74.935+/-50.985 χ^2/NDF : 16.9/28

Out: 15.519+/-55.843 χ^2/NDF : 15.8/31

All: 47.923+/-37.653 χ^2/NDF : 33.3/60

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190 $\pm$ 0.062 χ^2 /NDF: 3571747.5/16

Left Out: 231.803 $\pm$ 0.055 χ^2 /NDF: 893368.8/12

Right Out: 173.269 $\pm$ 0.057 χ^2 /NDF: 4207191.5/18

Left In: 182.789 $\pm$ 0.044 χ^2 /NDF: 1279944.0/11

Left: 202.273 $\pm$ 0.034 χ^2 /NDF: 2659312.5/24

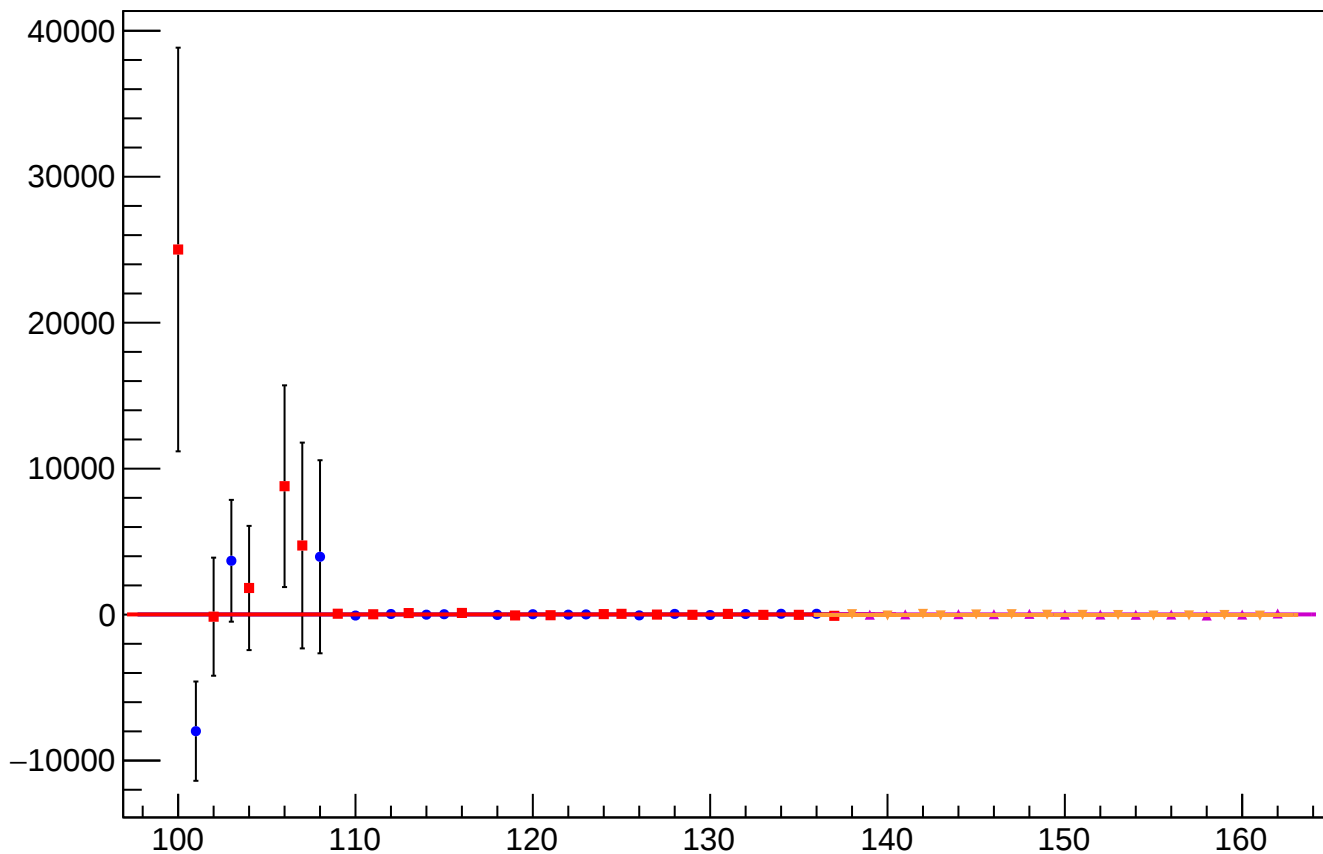
Right: 181.515 $\pm$ 0.042 χ^2 /NDF: 7824096.2/35

In: 185.633 $\pm$ 0.036 χ^2 /NDF: 4863849.7/28

Out: 203.914 $\pm$ 0.039 χ^2 /NDF: 5648692.5/31

All: 193.944 $\pm$ 0.027 χ^2 /NDF: 10629437.1/60

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -24.079+/-9.522 χ^2/NDF :14.3/12

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 13.414+/-9.467 χ^2/NDF :13.8/11

Left: -5.223+/-6.713 χ^2/NDF : 35.9/24

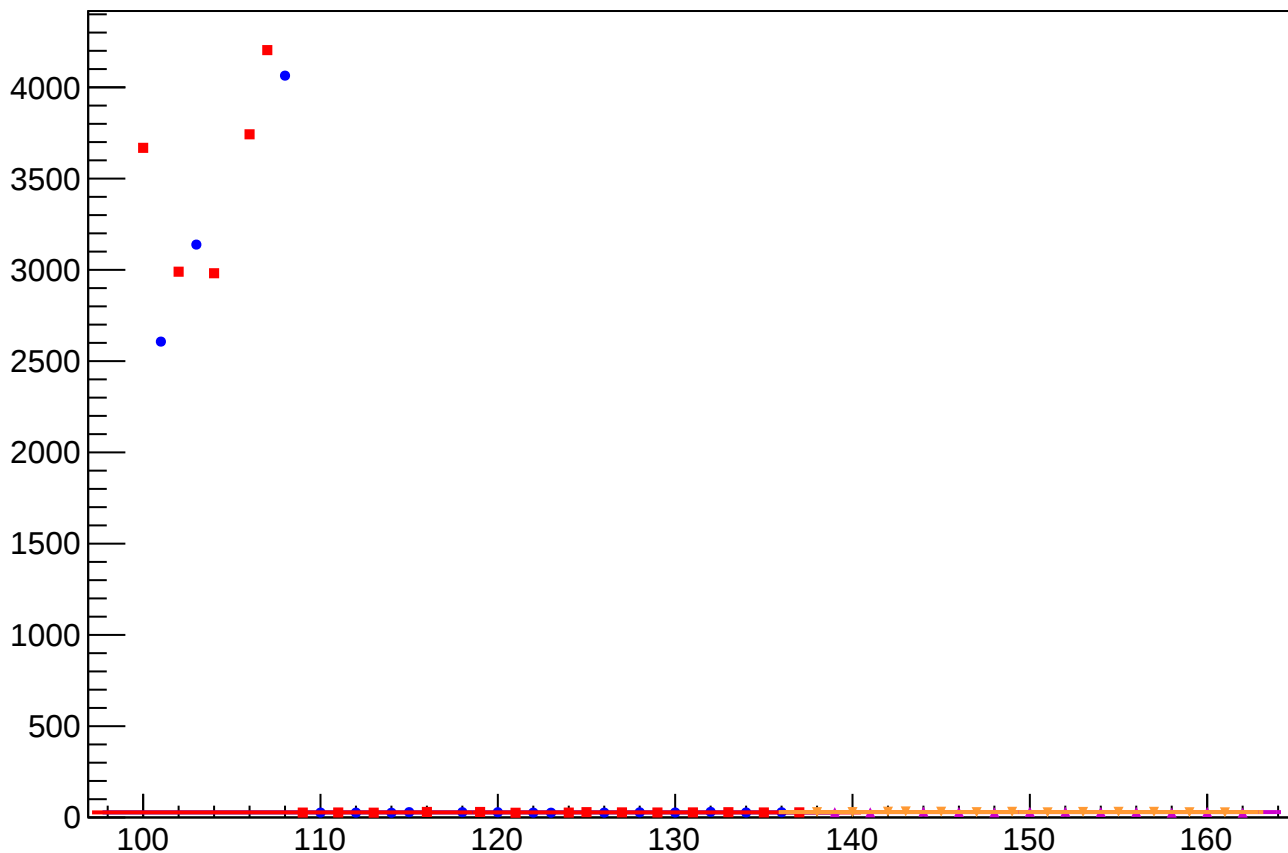
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 12.280+/-7.477 χ^2/NDF :32.1/28

Out: -10.101+/-7.513 χ^2/NDF :44.4/31

All: 1.143+/-5.300 χ^2/NDF : 81.0/60

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 29.700 $\pm$ 0.007 χ^2 /NDF: 44526.3/12

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 29.396 $\pm$ 0.007 χ^2 /NDF: 79155.8/11

Left: 29.547 $\pm$ 0.005 χ^2 /NDF: 124710.8/24

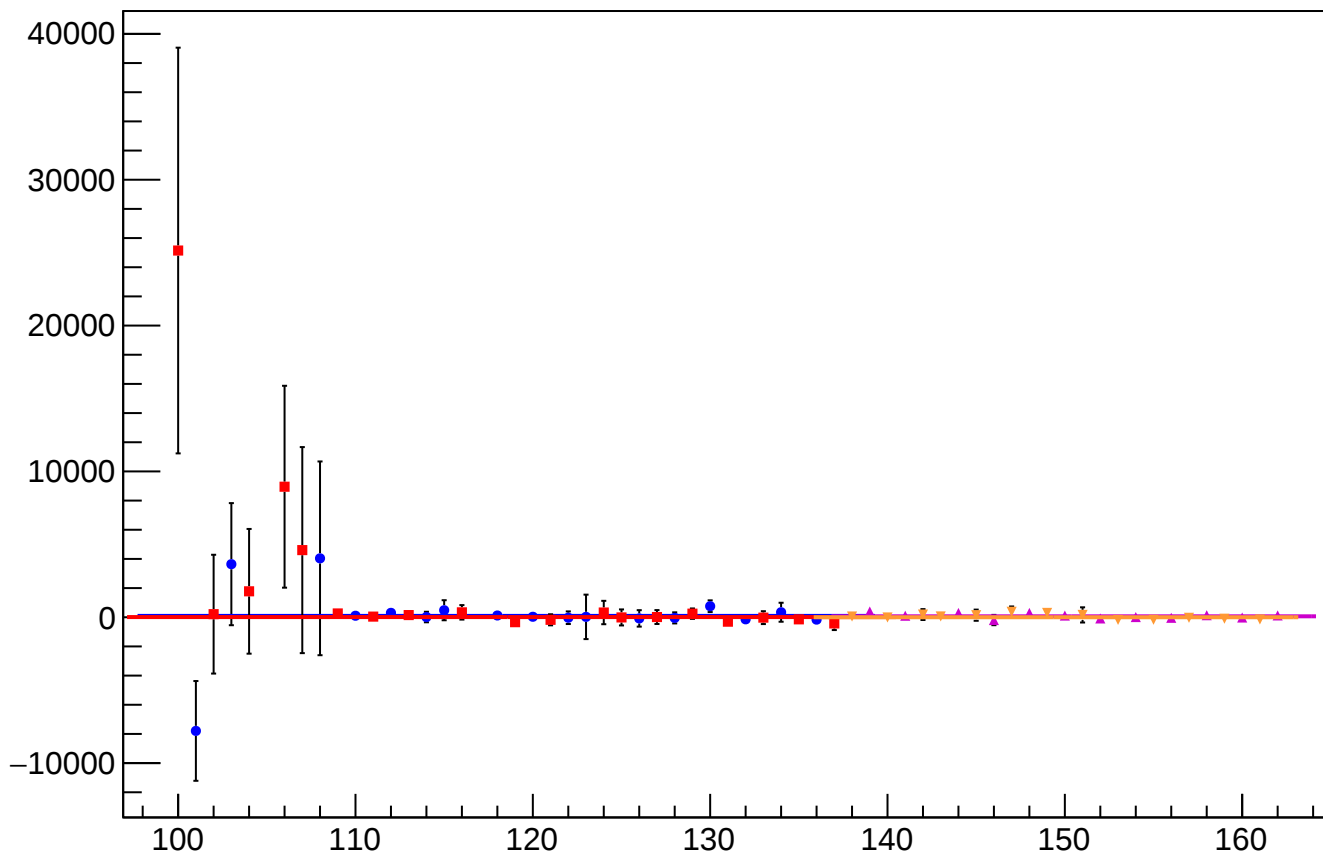
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.809 $\pm$ 0.005 χ^2 /NDF: 3126452.2/28

Out: 28.943 $\pm$ 0.005 χ^2 /NDF: 3554843.1/31

All: 28.876 $\pm$ 0.004 χ^2 /NDF: 6681613.8/60

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: 1.060+/-77.006 χ^2/NDF : 4.5/12

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 65.088+/-62.566 χ^2/NDF : 4.7/11

Left: 39.628+/-48.559 χ^2/NDF : 9.6/24

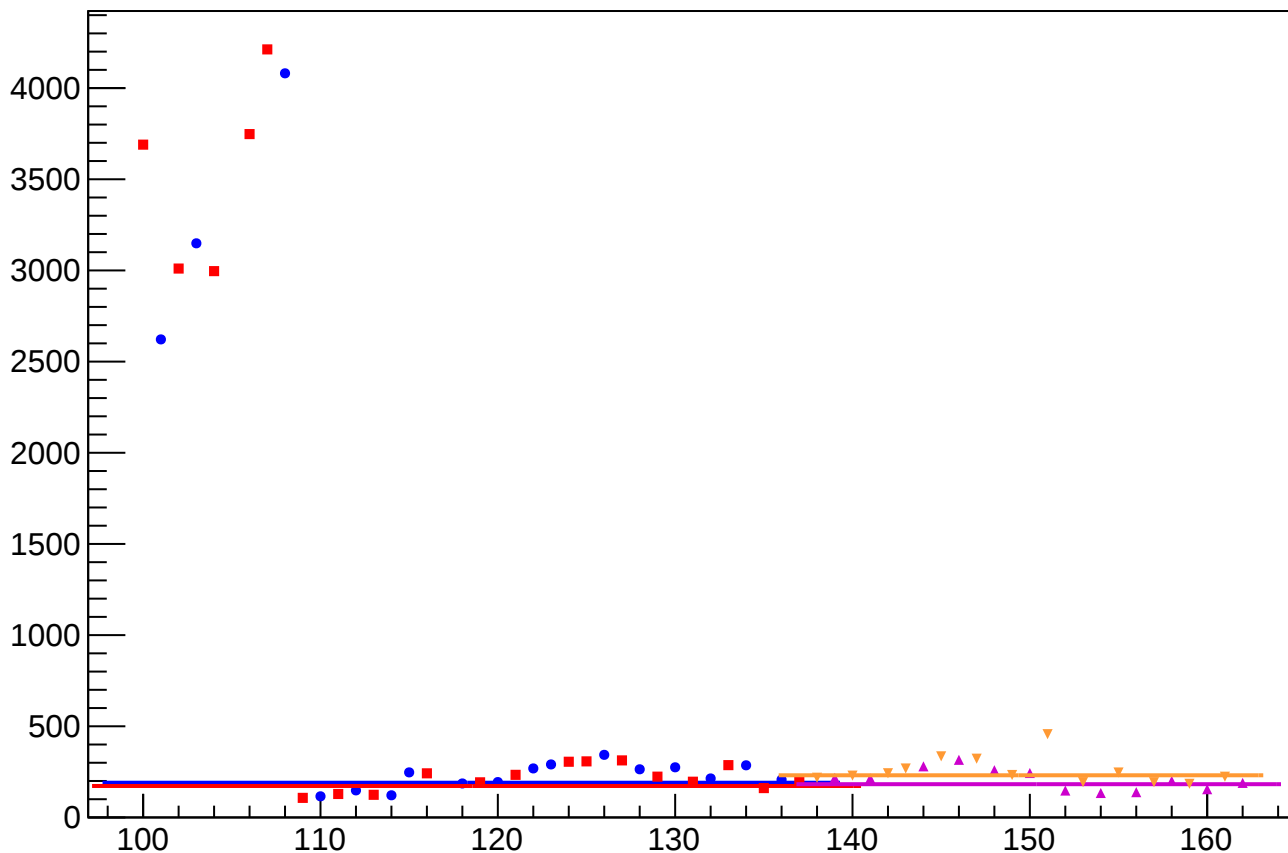
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 74.497+/-50.866 χ^2/NDF : 17.4/28

Out: 6.646+/-55.692 χ^2/NDF : 17.2/31

All: 43.638+/-37.558 χ^2/NDF : 35.4/60

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 231.290+/-0.054 χ^2/NDF : 893371.0/12

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 182.434+/-0.044 χ^2/NDF : 1280208.3/11

Left: 201.861+/-0.034 χ^2/NDF : 2658508.6/24

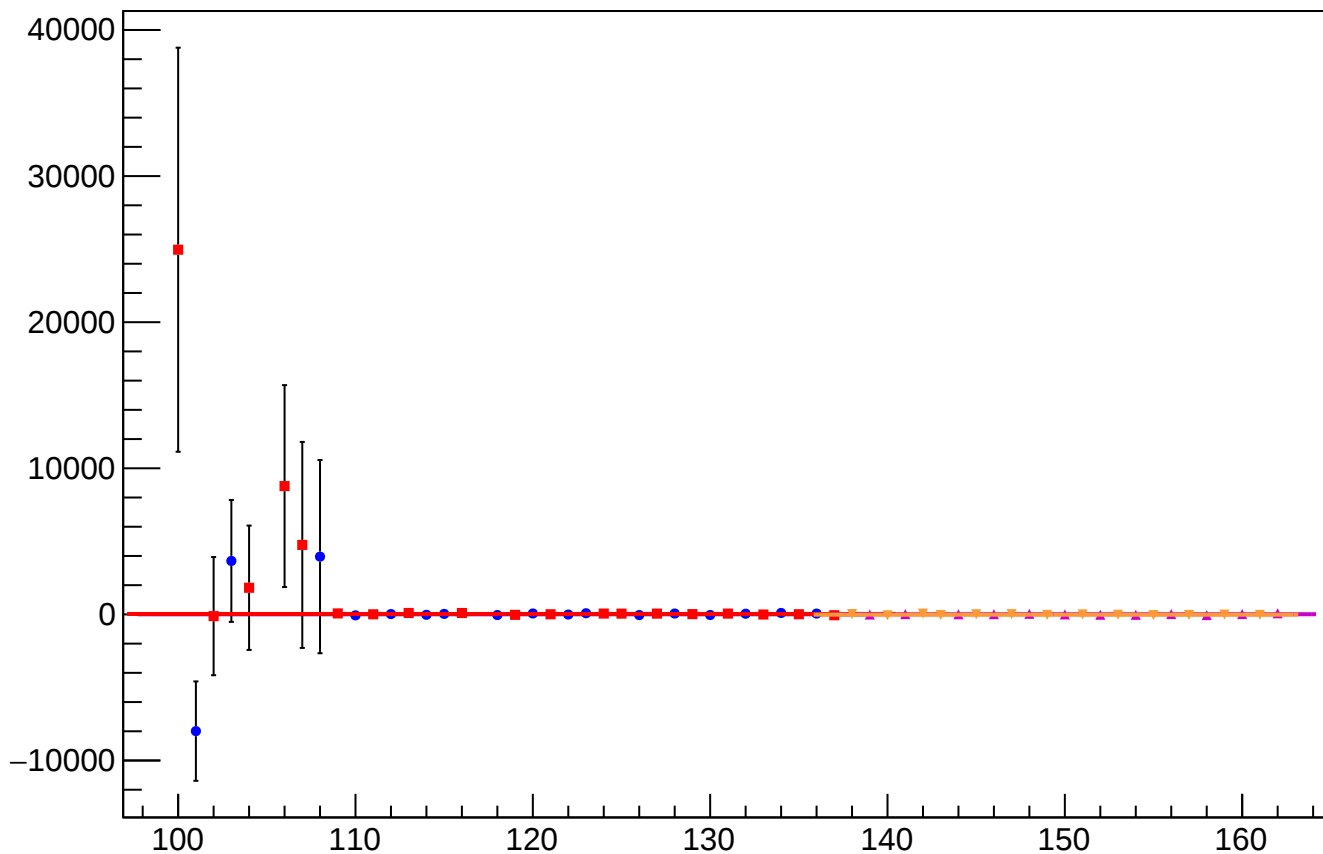
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 185.164+/-0.036 χ^2/NDF : 4875010.6/28

Out: 203.298+/-0.039 χ^2/NDF : 5665833.3/31

All: 193.411+/-0.027 χ^2/NDF : 10656454.7/60

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600+/-12.273 χ^2/NDF : 23.2/16

Left Out: -18.732+/-9.601 χ^2/NDF : 9.1/12

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 10.939+/-9.528 χ^2/NDF : 12.6/11

Left: -3.782+/-6.763 χ^2/NDF : 26.5/24

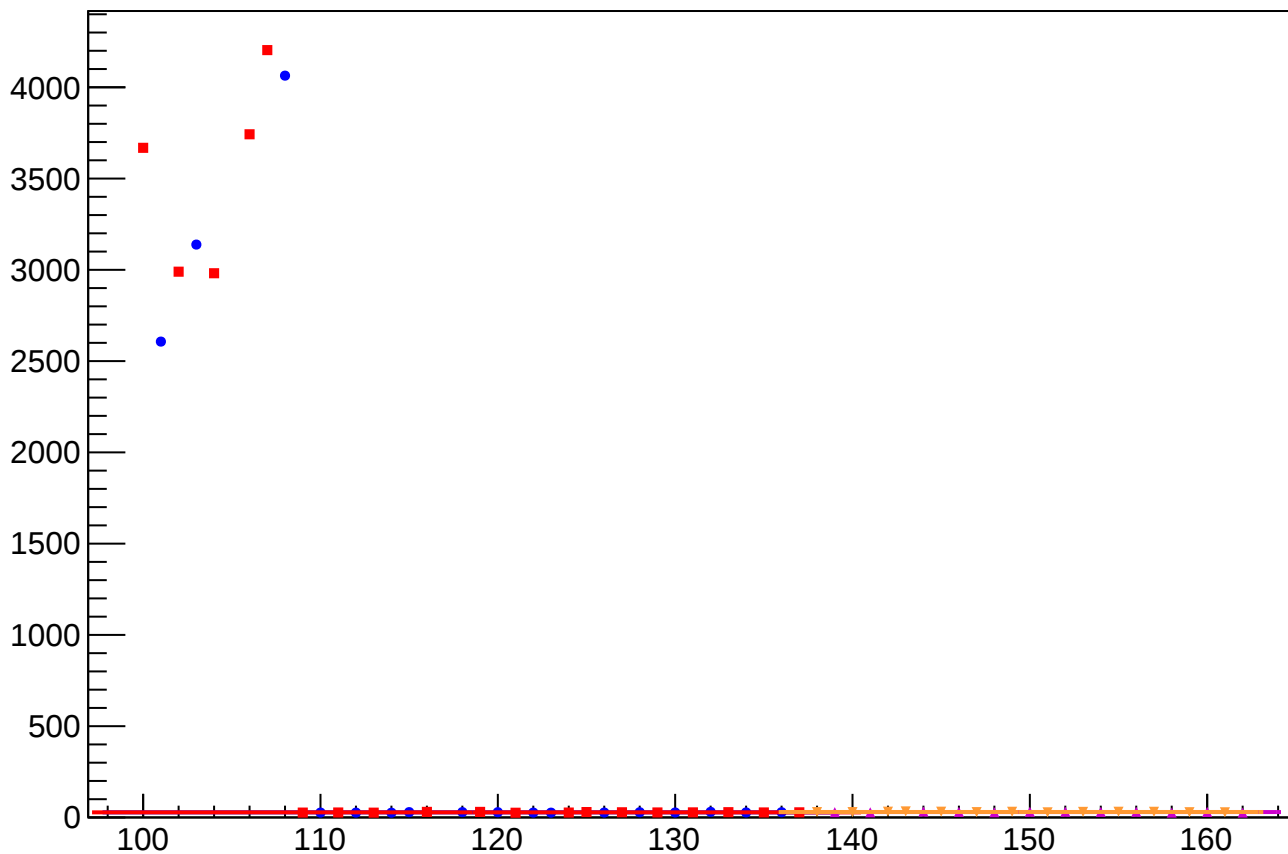
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 10.436+/-7.526 χ^2/NDF : 35.9/28

Out: -0.475+/-7.575 χ^2/NDF : 35.1/31

All: 5.016+/-5.339 χ^2/NDF : 72.1/60

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2 /NDF: 3027003.0/16

Left Out: 29.945+/-0.007 χ^2 /NDF: 45411.3/12

Right Out: 27.917+/-0.009 χ^2 /NDF: 3479610.6/18

Left In: 29.589+/-0.007 χ^2 /NDF: 79283.8/11

Left: 29.766+/-0.005 χ^2 /NDF: 126075.7/24

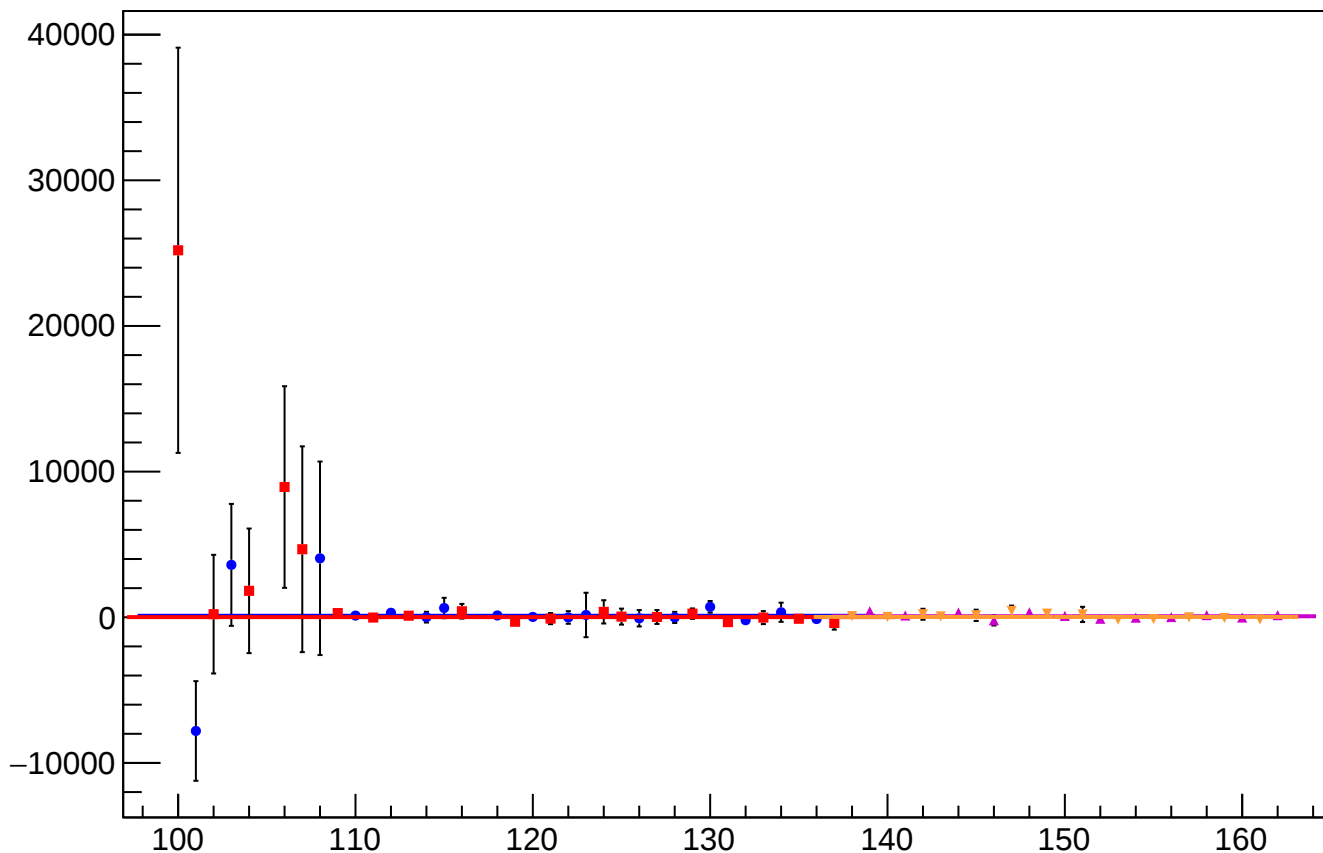
Right: 27.970+/-0.006 χ^2 /NDF: 6506687.7/35

In: 29.000+/-0.005 χ^2 /NDF: 3126618.5/28

Out: 29.179+/-0.005 χ^2 /NDF: 3558704.6/31

All: 29.089+/-0.004 χ^2 /NDF: 6685884.4/60

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: 23.057 $\pm$ 77.914 χ^2 /NDF:4.0/12

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 70.317 $\pm$ 63.488 χ^2 /NDF:5.5/11

Left: 51.459 $\pm$ 49.217 χ^2 /NDF: 9.7/24

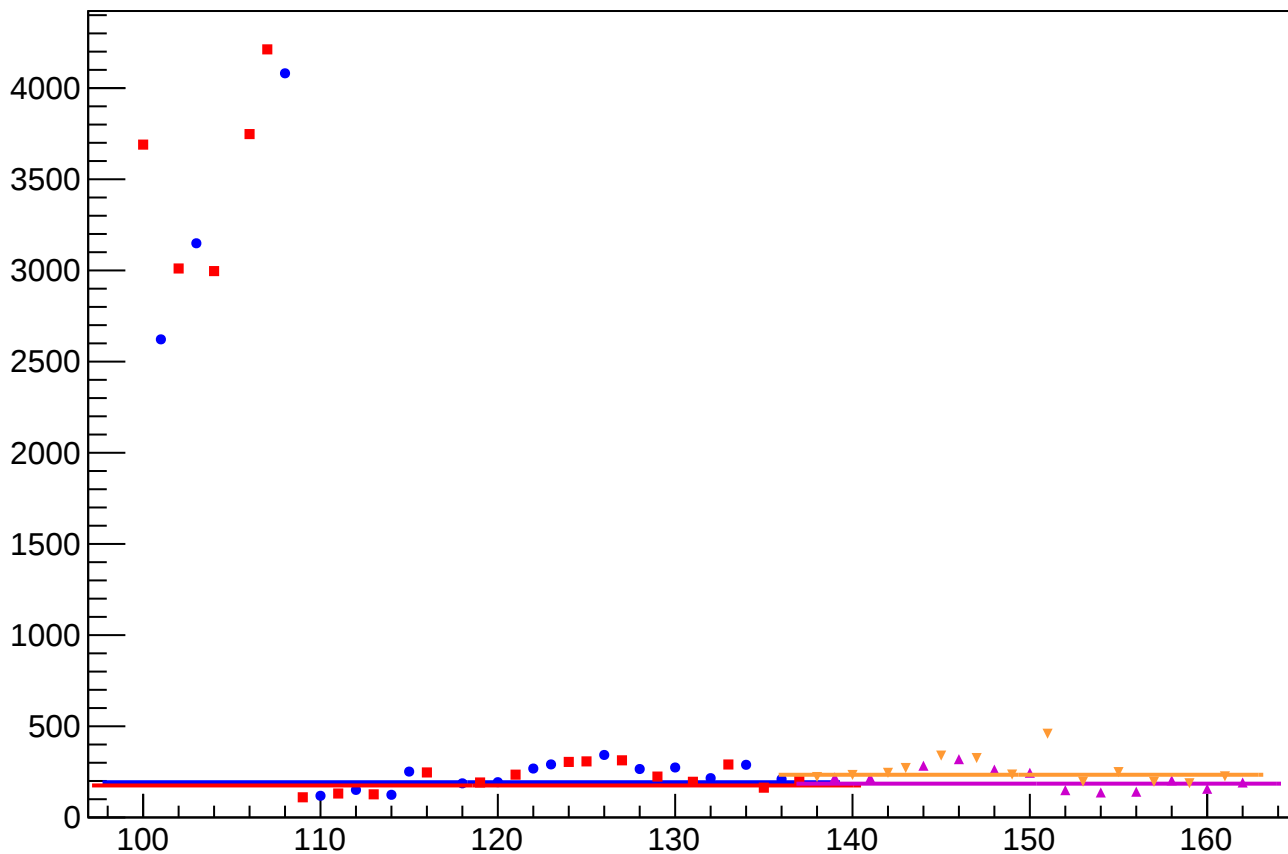
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 81.022 $\pm$ 51.565 χ^2 /NDF:17.9/28

Out: 17.425 $\pm$ 56.393 χ^2 /NDF:16.3/31

All: 52.063 $\pm$ 38.055 χ^2 /NDF: 34.9/60

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190+/-0.063 χ^2/NDF : 3536123.5/16

Left Out: 234.144+/-0.055 χ^2/NDF : 883873.7/12

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 185.339+/-0.045 χ^2/NDF : 1254546.4/11

Left: 204.813+/-0.035 χ^2/NDF : 2610034.0/24

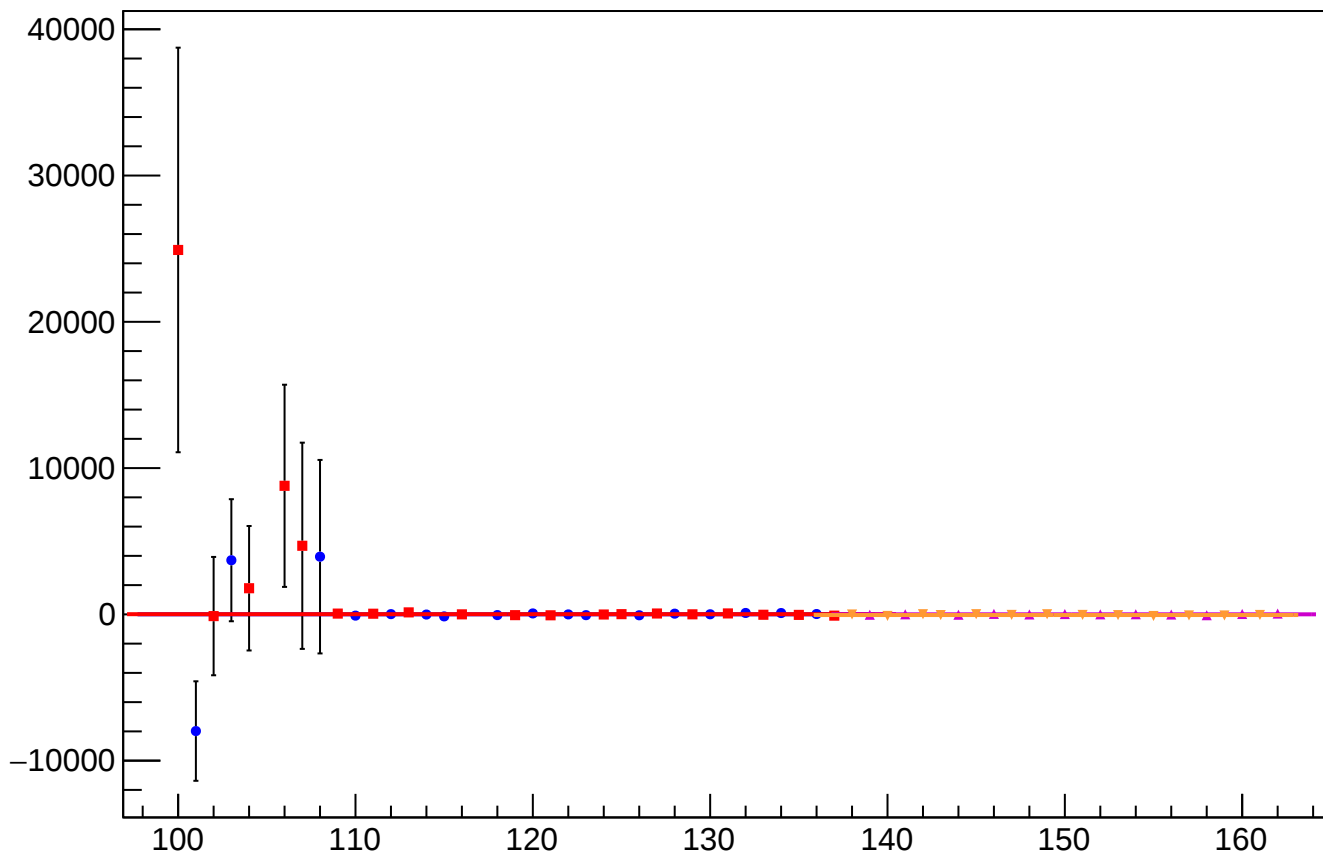
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.011+/-0.036 χ^2/NDF : 4801079.5/28

Out: 206.215+/-0.040 χ^2/NDF : 5589004.0/31

All: 196.300+/-0.027 χ^2/NDF : 10503593.7/60

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651 ± 14.935 $\chi^2/\text{NDF}: 20.4/16$

Left Out: -45.311 ± 11.280 $\chi^2/\text{NDF}: 11.7/12$

Right Out: 12.487 ± 14.947 $\chi^2/\text{NDF}: 21.7/18$

Left In: 3.463 ± 11.263 $\chi^2/\text{NDF}: 7.1/11$

Left: -20.887 ± 7.970 $\chi^2/\text{NDF}: 28.2/24$

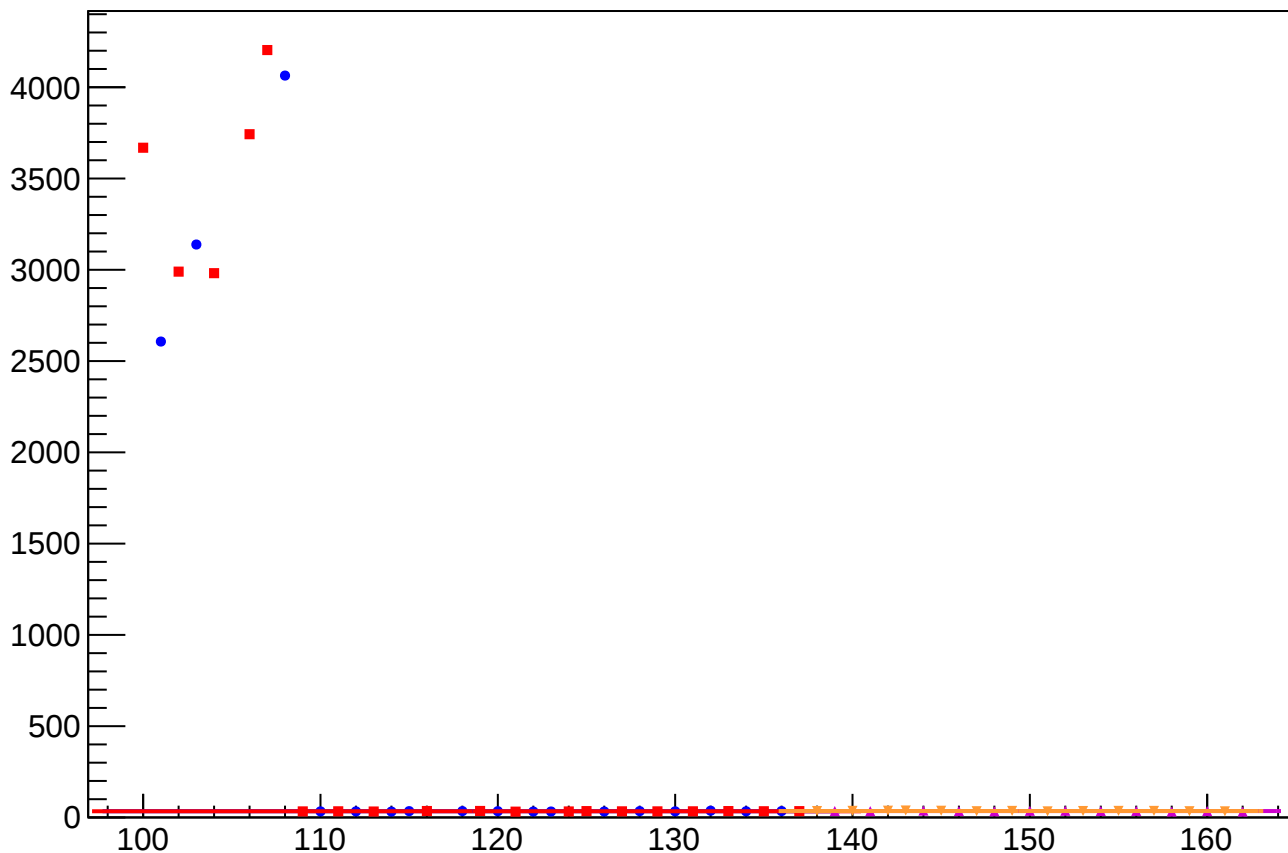
Right: 8.566 ± 10.565 $\chi^2/\text{NDF}: 42.2/35$

In: 3.894 ± 8.992 $\chi^2/\text{NDF}: 27.5/28$

Out: -24.338 ± 9.004 $\chi^2/\text{NDF}: 42.9/31$

All: -10.204 ± 6.363 $\chi^2/\text{NDF}: 75.3/60$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.137 $\pm$ 0.011 χ^2 /NDF: 3006248.0/16

Left Out: 35.229 $\pm$ 0.008 χ^2 /NDF:26927.3/12

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 35.044 $\pm$ 0.008 χ^2 /NDF:35783.2/11

Left: 35.136 $\pm$ 0.006 χ^2 /NDF: 62977.7/24

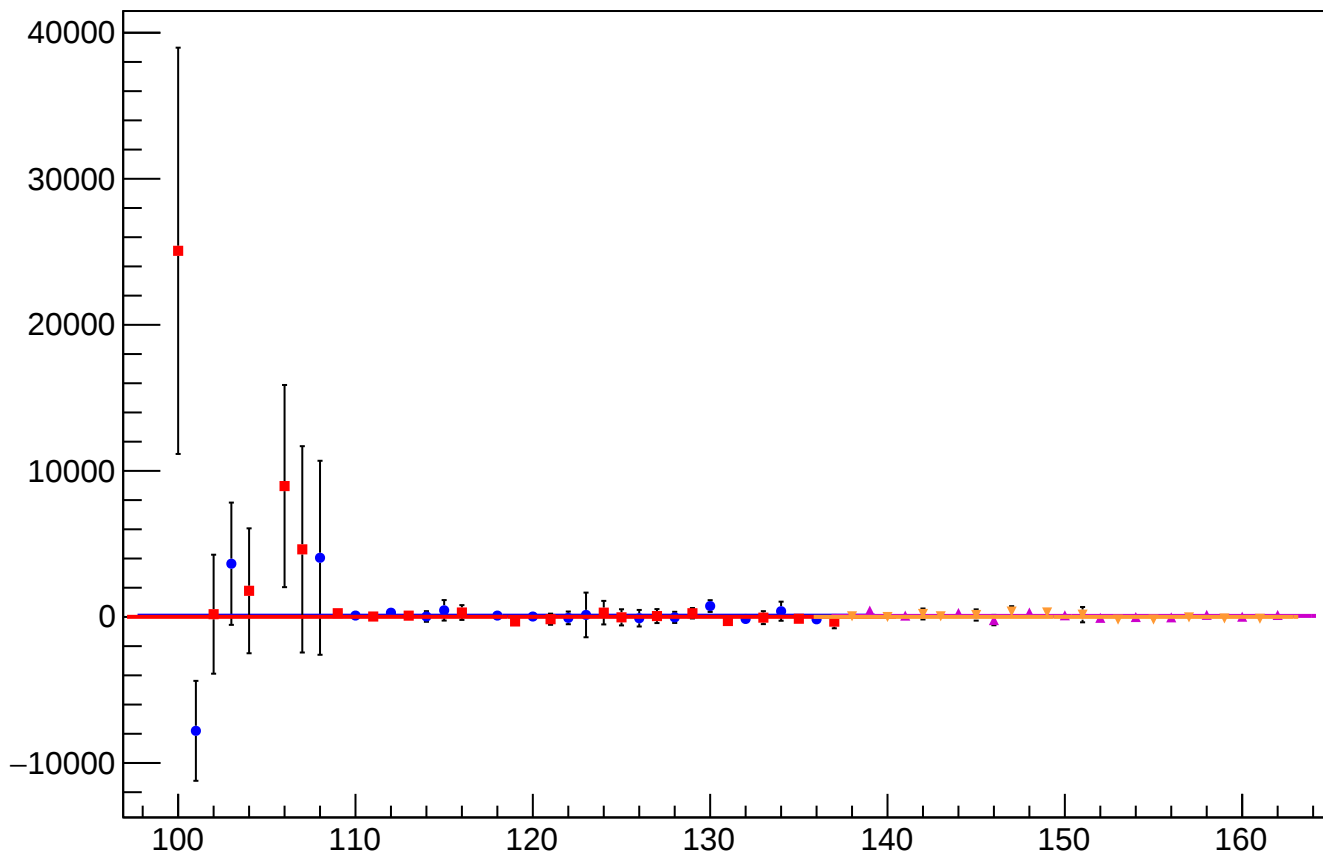
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.716 $\pm$ 0.006 χ^2 /NDF:3046733.8/28

Out: 34.751 $\pm$ 0.006 χ^2 /NDF:3488694.7/31

All: 34.733 $\pm$ 0.004 χ^2 /NDF: 6535444.1/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: 3.332+/-77.684 χ^2/NDF :4.4/12

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 70.604+/-63.290 χ^2/NDF :4.8/11

Left: 43.766+/-49.067 χ^2/NDF : 9.7/24

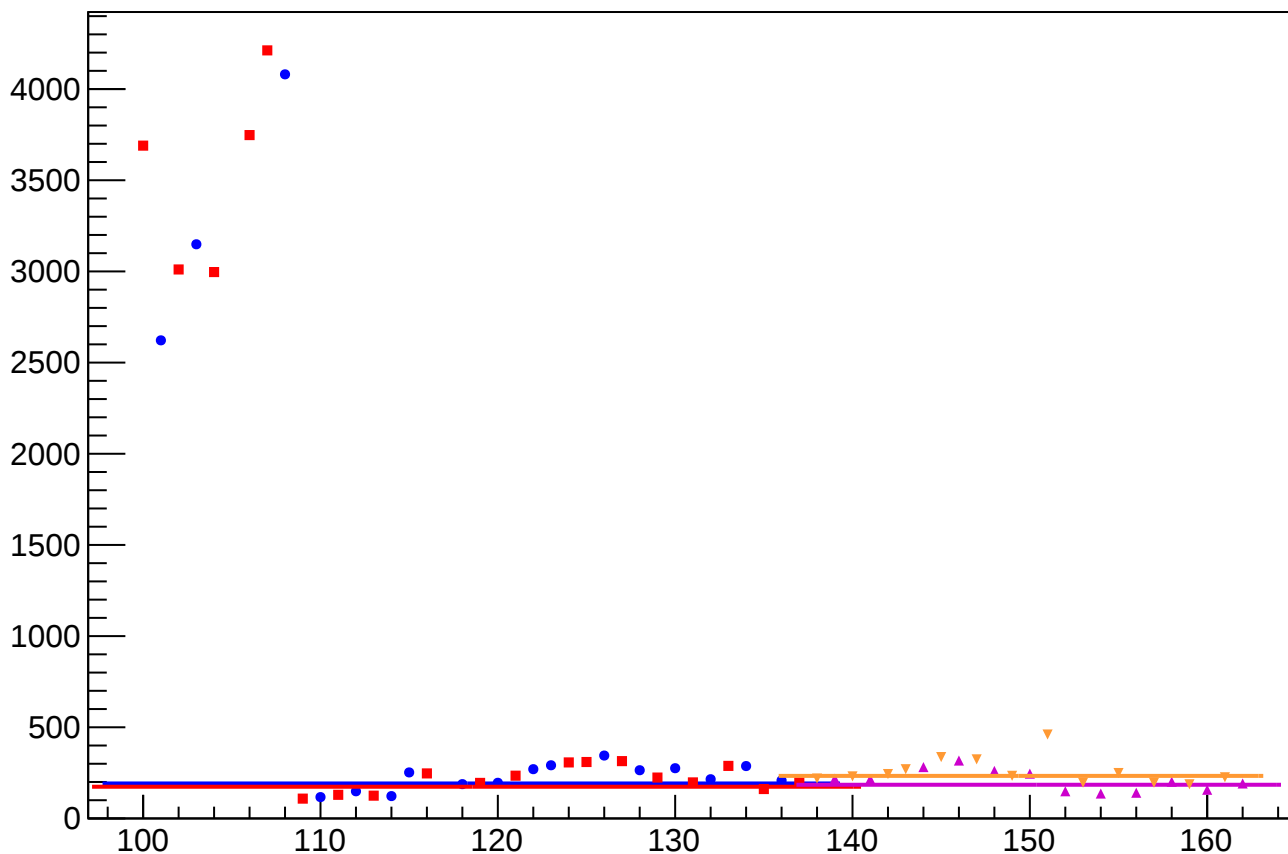
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 75.870+/-51.371 χ^2/NDF :17.2/28

Out: 5.226+/-56.136 χ^2/NDF :15.5/31

All: 43.673+/-37.897 χ^2/NDF : 33.6/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 233.471+/-0.055 χ^2/NDF : 877026.6/12

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 184.786+/-0.045 χ^2/NDF : 1240175.2/11

Left: 204.209+/-0.035 χ^2/NDF : 2589325.0/24

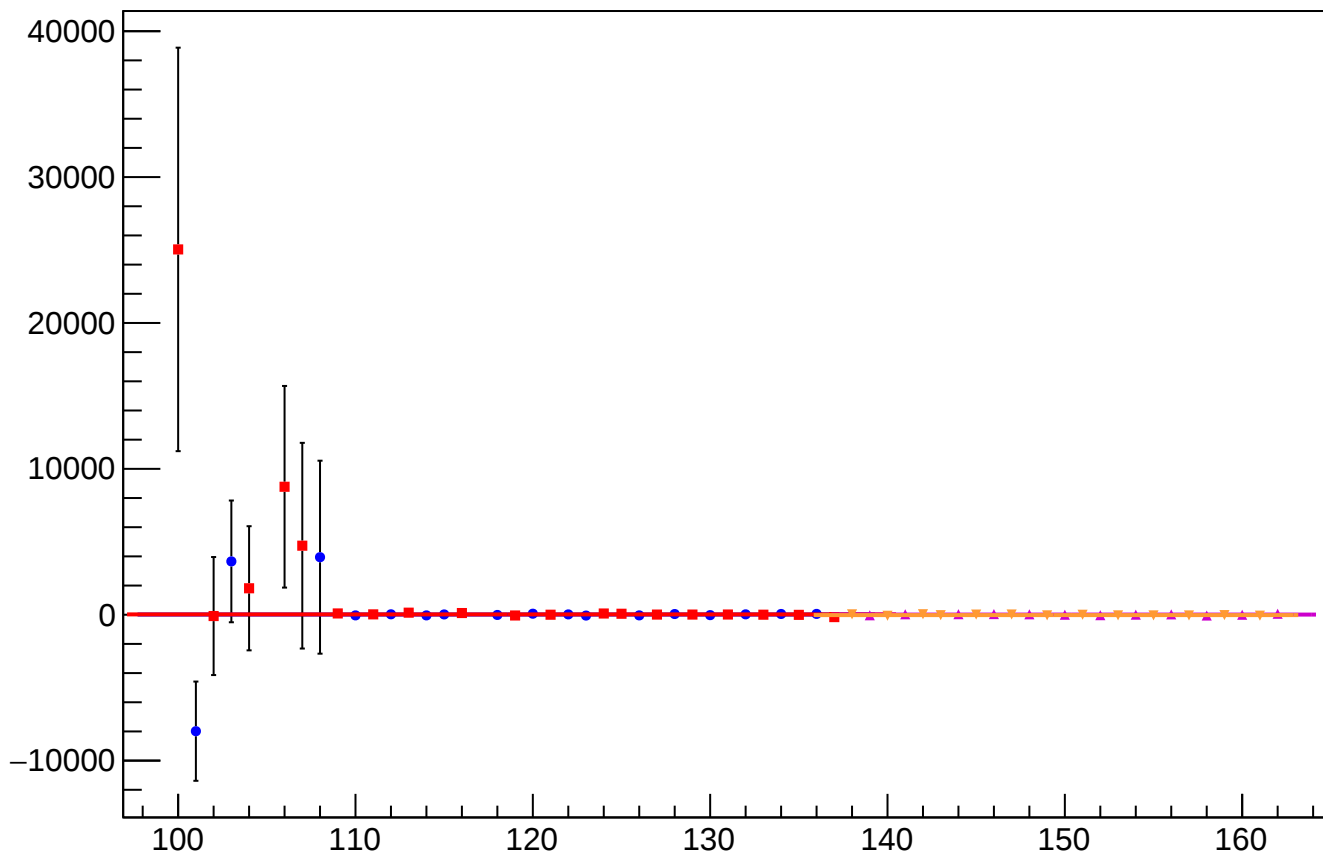
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.207+/-0.036 χ^2/NDF : 4821807.8/28

Out: 205.019+/-0.040 χ^2/NDF : 5649849.2/31

All: 195.325+/-0.027 χ^2/NDF : 10581251.2/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -25.169+/-10.254 χ^2/NDF :10.3/12

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: 10.315+/-10.207 χ^2/NDF :12.4/11

Left: -7.345+/-7.234 χ^2/NDF : 28.7/24

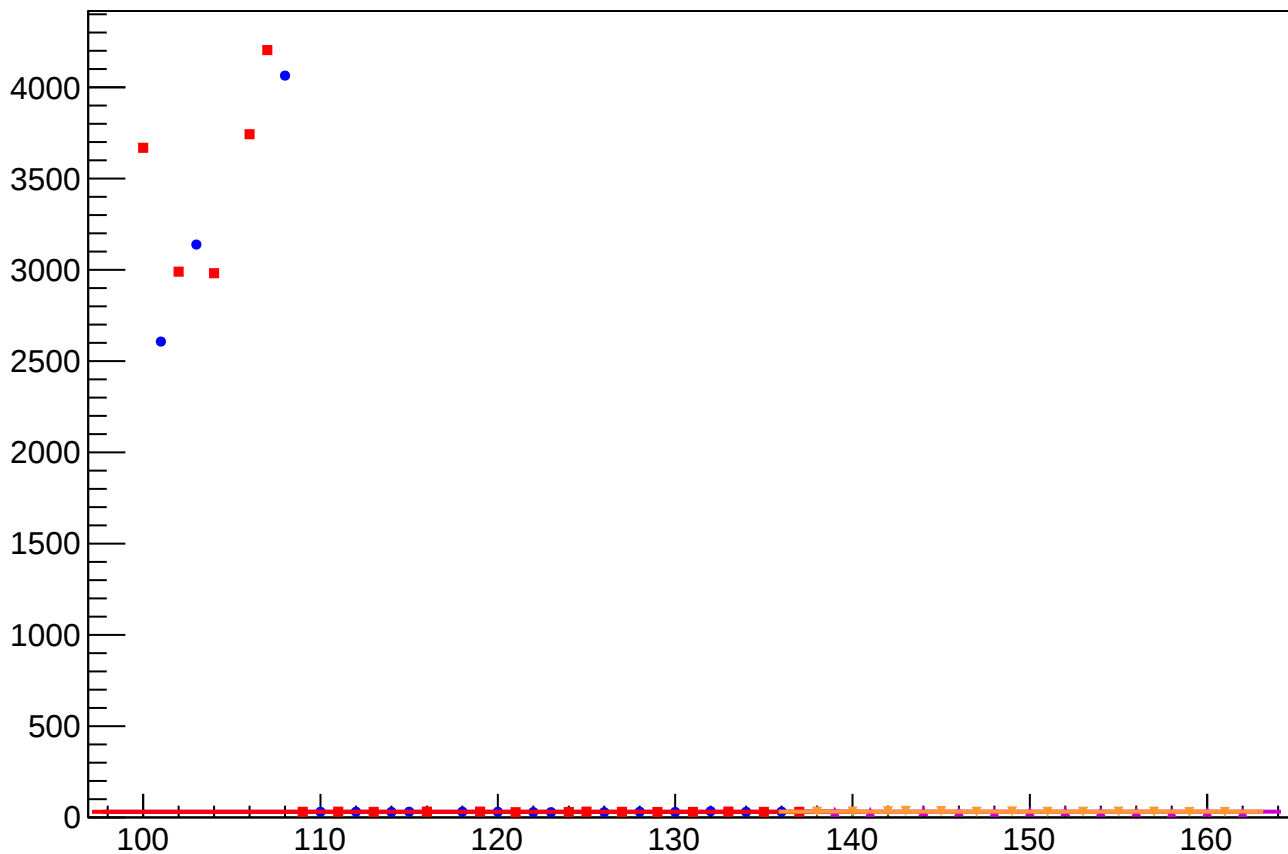
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 11.684+/-8.168 χ^2/NDF :27.6/28

Out: -7.666+/-8.200 χ^2/NDF :45.9/31

All: 2.047+/-5.787 χ^2/NDF : 76.3/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.991 $\pm$ 0.007 χ^2 /NDF: 47078.5/12

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.705 $\pm$ 0.007 χ^2 /NDF: 64852.0/11

Left: 31.847 $\pm$ 0.005 χ^2 /NDF: 112709.3/24

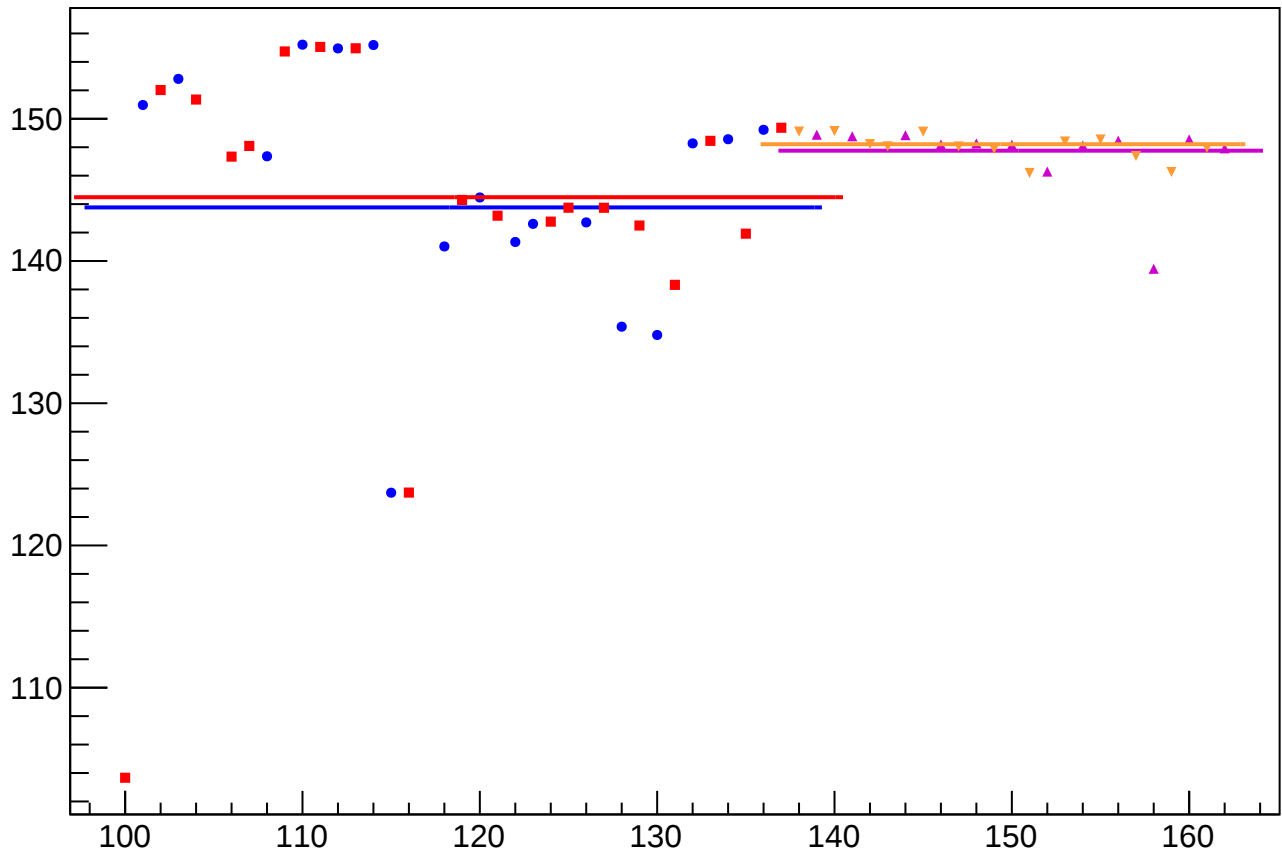
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.497 $\pm$ 0.006 χ^2 /NDF: 3081589.2/28

Out: 31.620 $\pm$ 0.006 χ^2 /NDF: 3513266.1/31

All: 31.558 $\pm$ 0.004 χ^2 /NDF: 6595081.6/60

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768+/-0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.210+/-0.000 χ^2/NDF : 50597661.2/12

Right Out: 144.486+/-0.000 χ^2/NDF : 4183608291.3/18

Left In: 147.757+/-0.000 χ^2/NDF : 320135432.7/11

Left: 147.990+/-0.000 χ^2/NDF : 377039232.5/24

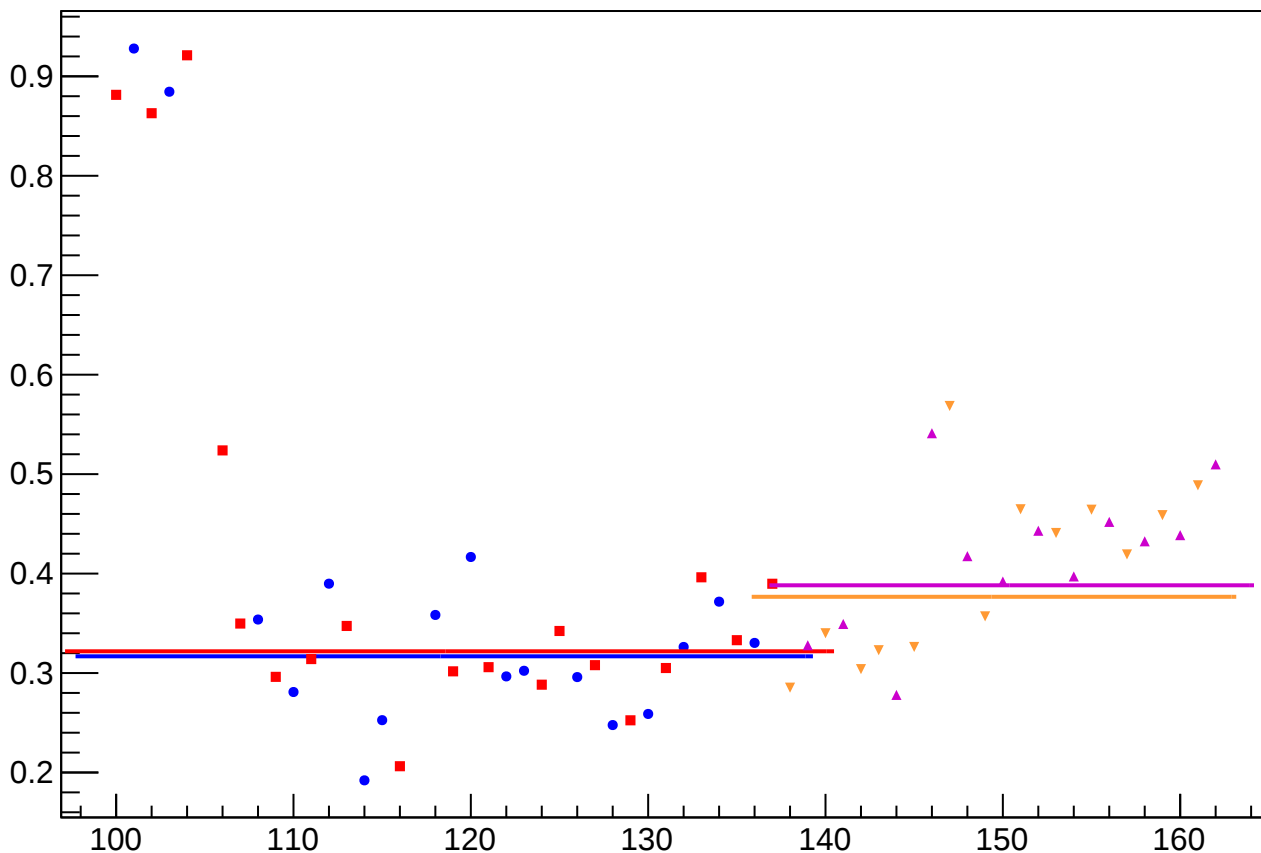
Right: 144.130+/-0.000 χ^2/NDF : 7730221597.0/35

In: 145.835+/-0.000 χ^2/NDF : 4311047466.8/28

Out: 146.452+/-0.000 χ^2/NDF : 4648525248.2/31

All: 146.149+/-0.000 χ^2/NDF : 8981976132.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.377 $\pm$ 0.000 χ^2 /NDF: 741559.1/12

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.388 $\pm$ 0.000 χ^2 /NDF: 636564.0/11

Left: 0.382 $\pm$ 0.000 χ^2 /NDF: 1386345.1/24

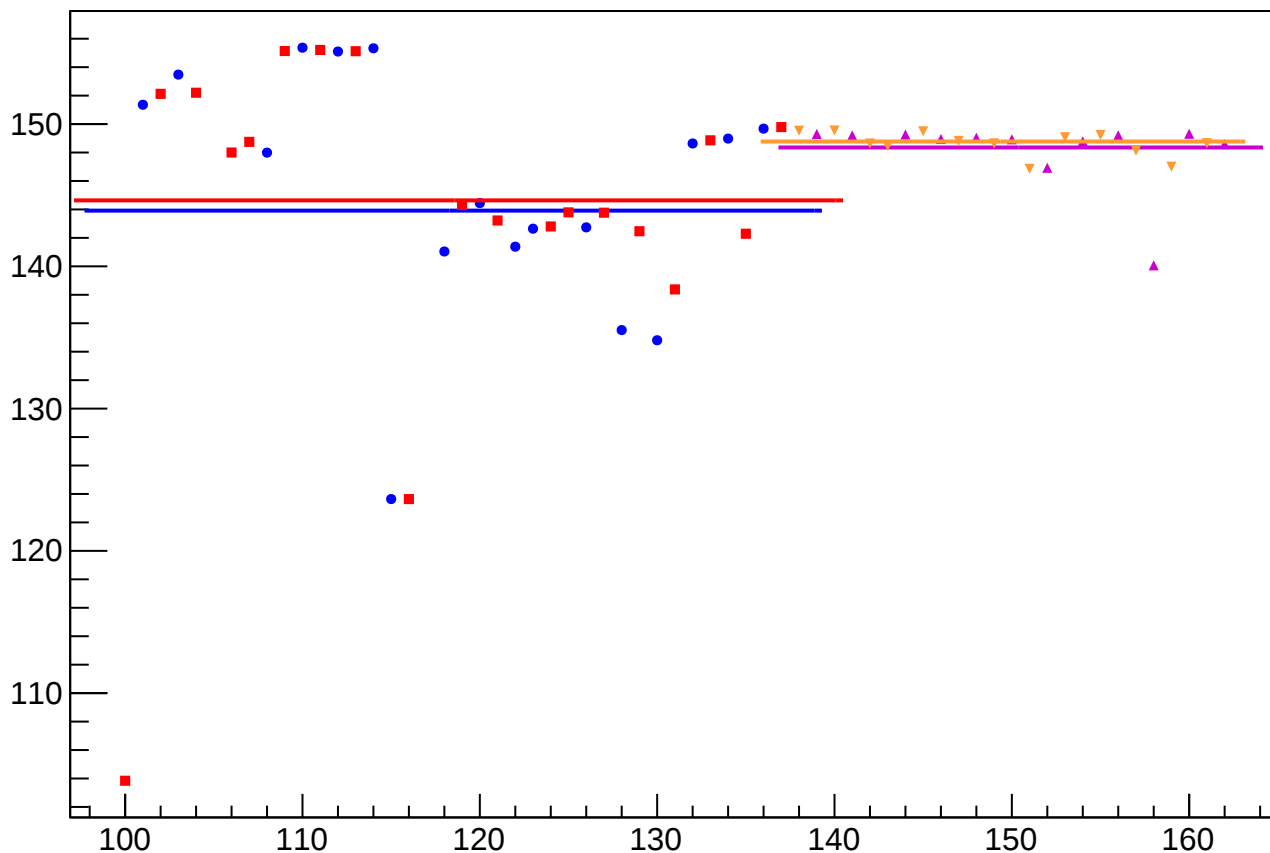
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.354 $\pm$ 0.000 χ^2 /NDF: 2209201.7/28

Out: 0.351 $\pm$ 0.000 χ^2 /NDF: 2138710.7/31

All: 0.352 $\pm$ 0.000 χ^2 /NDF: 4348981.8/60

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917+/-0.000

χ^2/NDF : 3584662767.5/16

Left Out: 148.774+/-0.000

χ^2/NDF : 39703204.8/12

Right Out: 144.637+/-0.000

χ^2/NDF : 4210524953.9/18

Left In: 148.355+/-0.000

χ^2/NDF : 309577985.1/11

Left: 148.570+/-0.000

χ^2/NDF : 354573322.1/24

Right: 144.280+/-0.000

χ^2/NDF : 7809567994.8/35

In: 146.206+/-0.000

χ^2/NDF : 4453362234.3/28

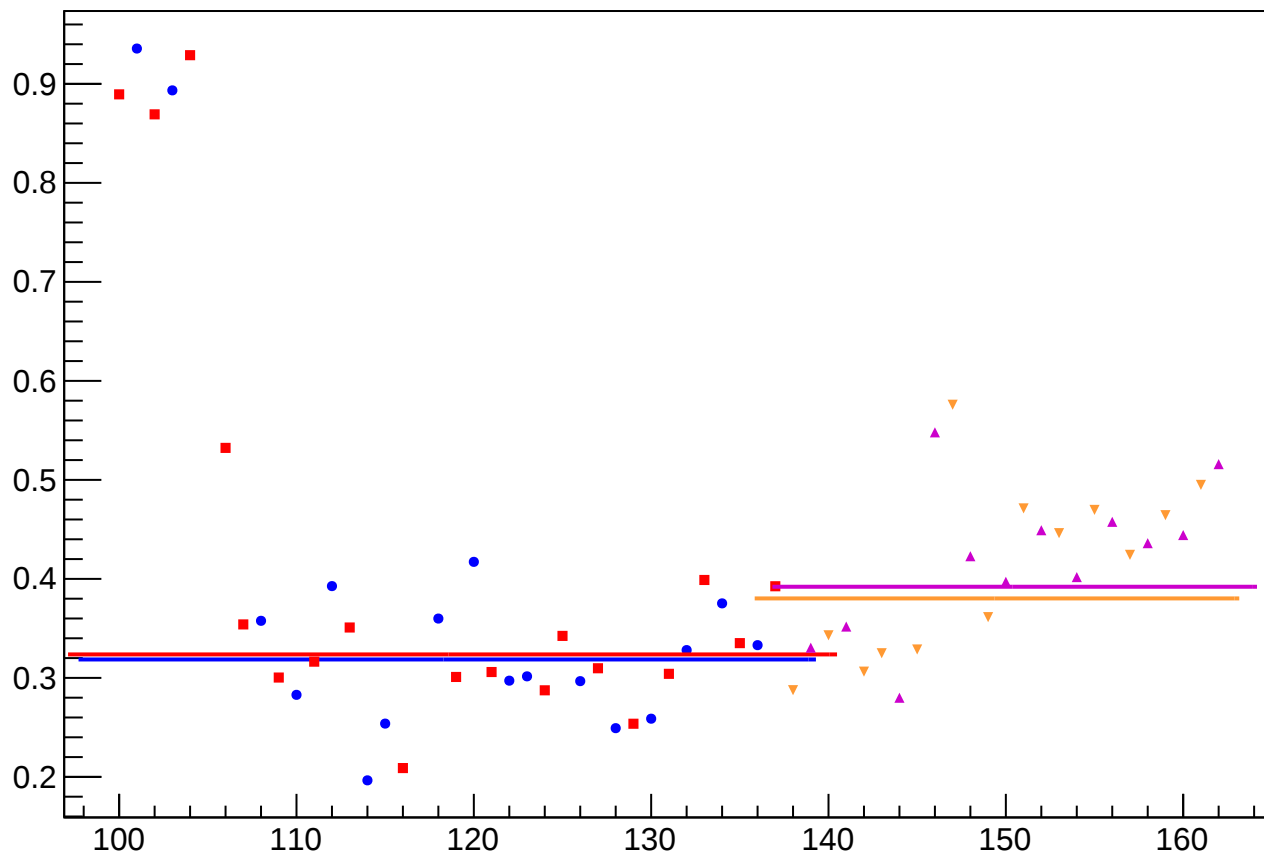
Out: 146.813+/-0.000

χ^2/NDF : 4753679530.7/31

All: 146.515+/-0.000

χ^2/NDF : 9228350720.6

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.380+/-0.000 χ^2/NDF : 756563.9/12

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.392+/-0.000 χ^2/NDF : 650507.8/11

Left: 0.386+/-0.000 χ^2/NDF : 1415456.4/24

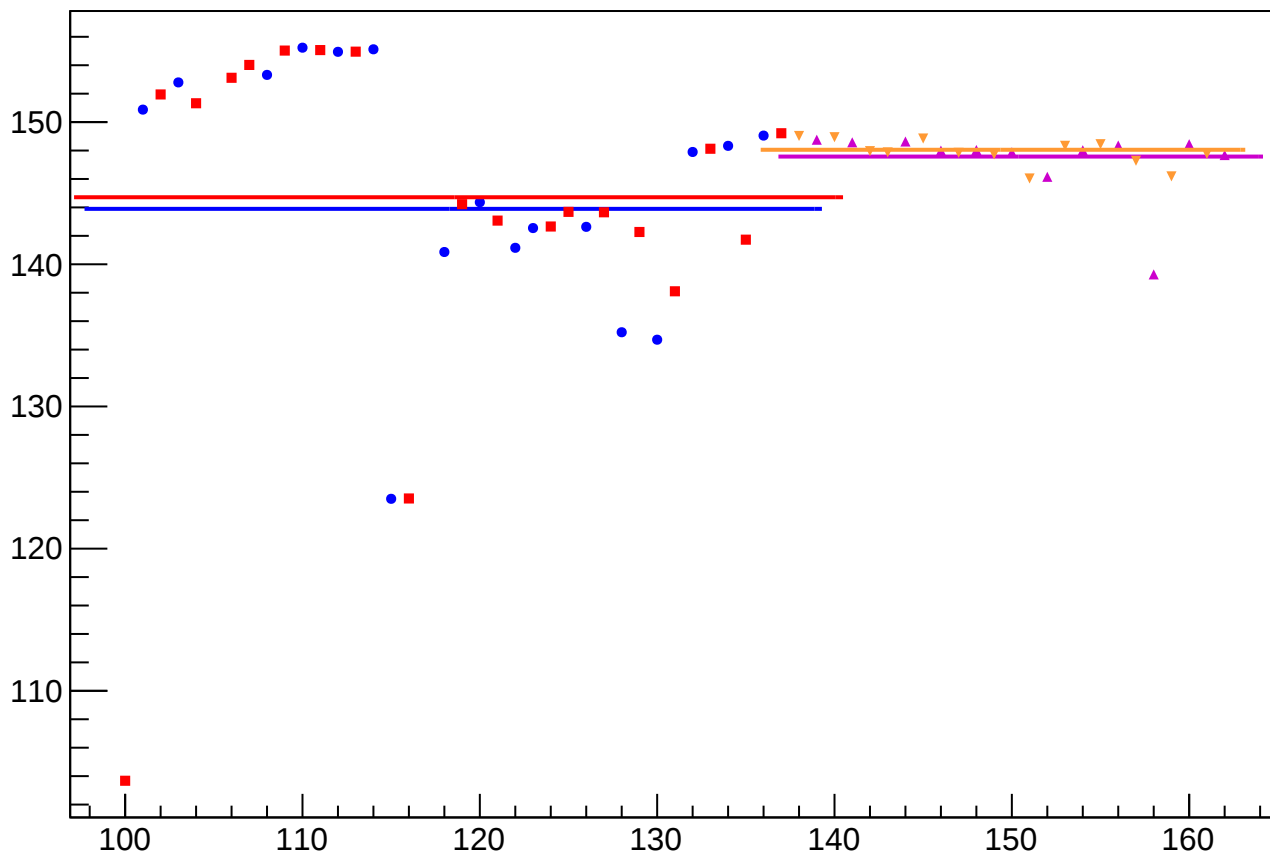
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.356+/-0.000 χ^2/NDF : 2237548.1/28

Out: 0.353+/-0.000 χ^2/NDF : 2165633.8/31

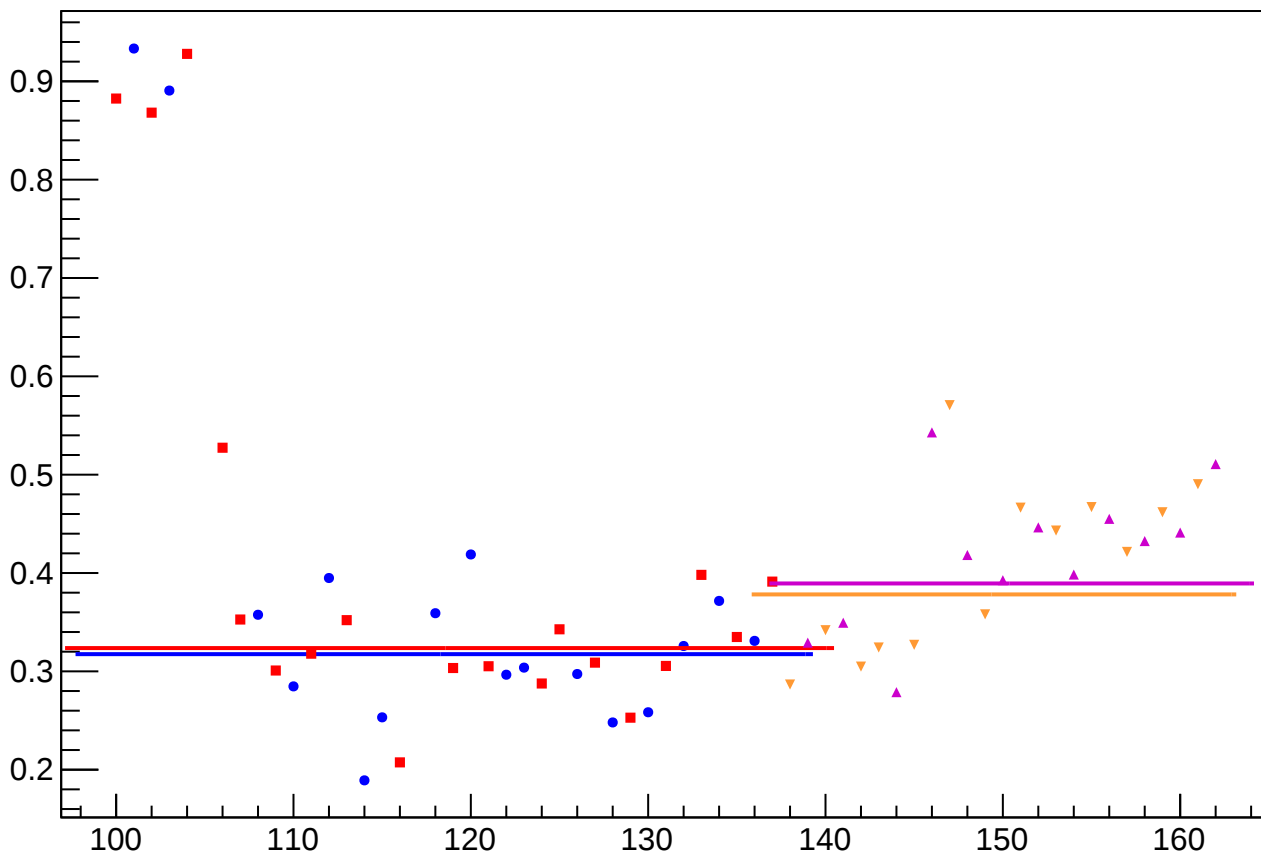
All: 0.355+/-0.000 χ^2/NDF : 4404251.2/60

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000	χ^2 /NDF: 3749888331.0/16	Left: 147.822 $\pm$ 0.000	χ^2 /NDF: 374666069.3/24
Left Out: 148.054 $\pm$ 0.000	χ^2 /NDF: 48936298.8/12	Right: 144.309 $\pm$ 0.000	χ^2 /NDF: 8242891510.2/35
Right Out: 144.715 $\pm$ 0.000	χ^2 /NDF: 4474458988.7/18	In: 145.804 $\pm$ 0.000	χ^2 /NDF: 4456262414.6/28
Left In: 147.576 $\pm$ 0.000	χ^2 /NDF: 318756342.0/11	Out: 146.480 $\pm$ 0.000	χ^2 /NDF: 4853162102.1/31
		All: 146.148 $\pm$ 0.000	χ^2 /NDF: 9336113250.8

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.378 $\pm$ 0.000 χ^2 /NDF: 744105.7/12

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.389 $\pm$ 0.000 χ^2 /NDF: 639838.1/11

Left: 0.384 $\pm$ 0.000 χ^2 /NDF: 1391522.4/24

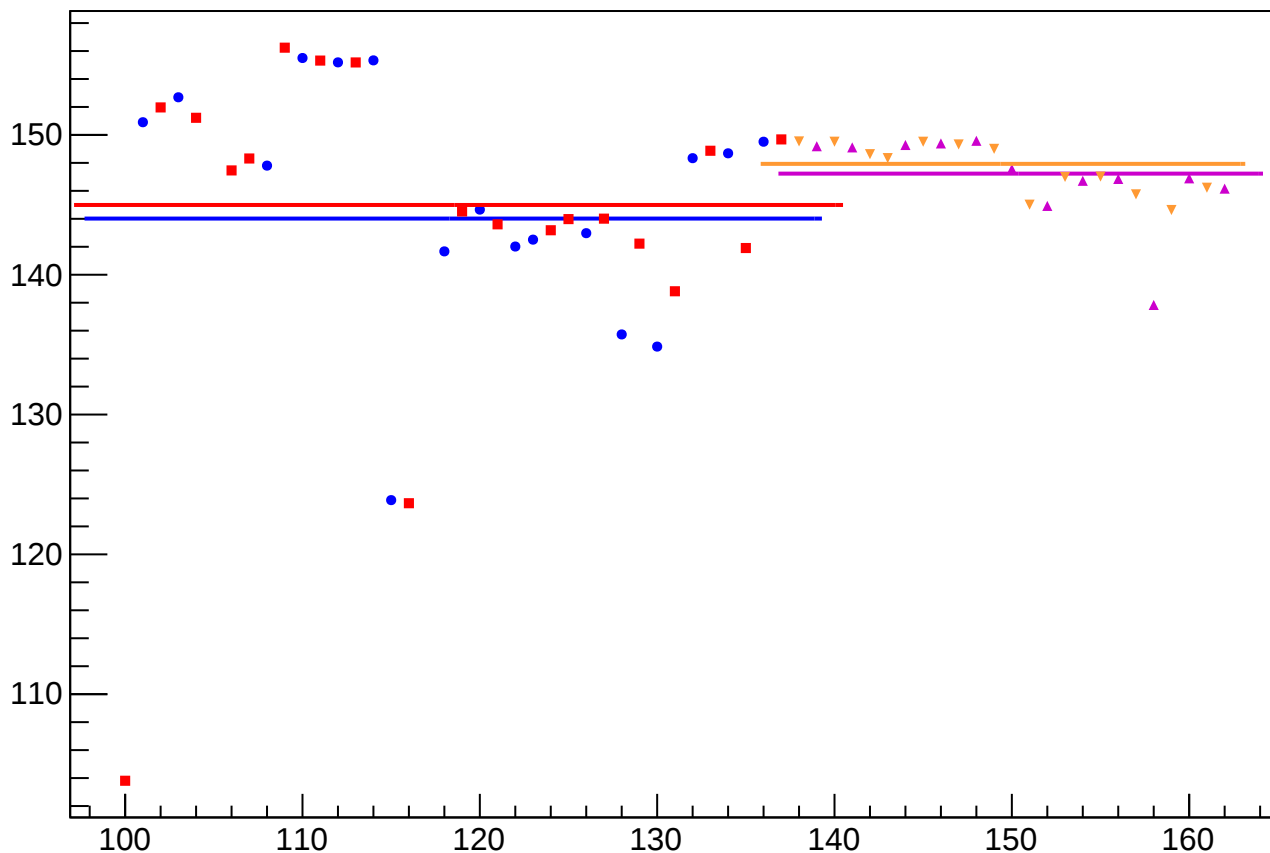
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.355 $\pm$ 0.000 χ^2 /NDF: 2229225.3/28

Out: 0.353 $\pm$ 0.000 χ^2 /NDF: 2141963.4/31

All: 0.354 $\pm$ 0.000 χ^2 /NDF: 4371764.8/60

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.930 $\pm$ 0.000 χ^2 /NDF: 165541877.0/12

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 147.232 $\pm$ 0.000 χ^2 /NDF: 482129384.7/11

Left: 147.590 $\pm$ 0.000 χ^2 /NDF: 661383089.6/24

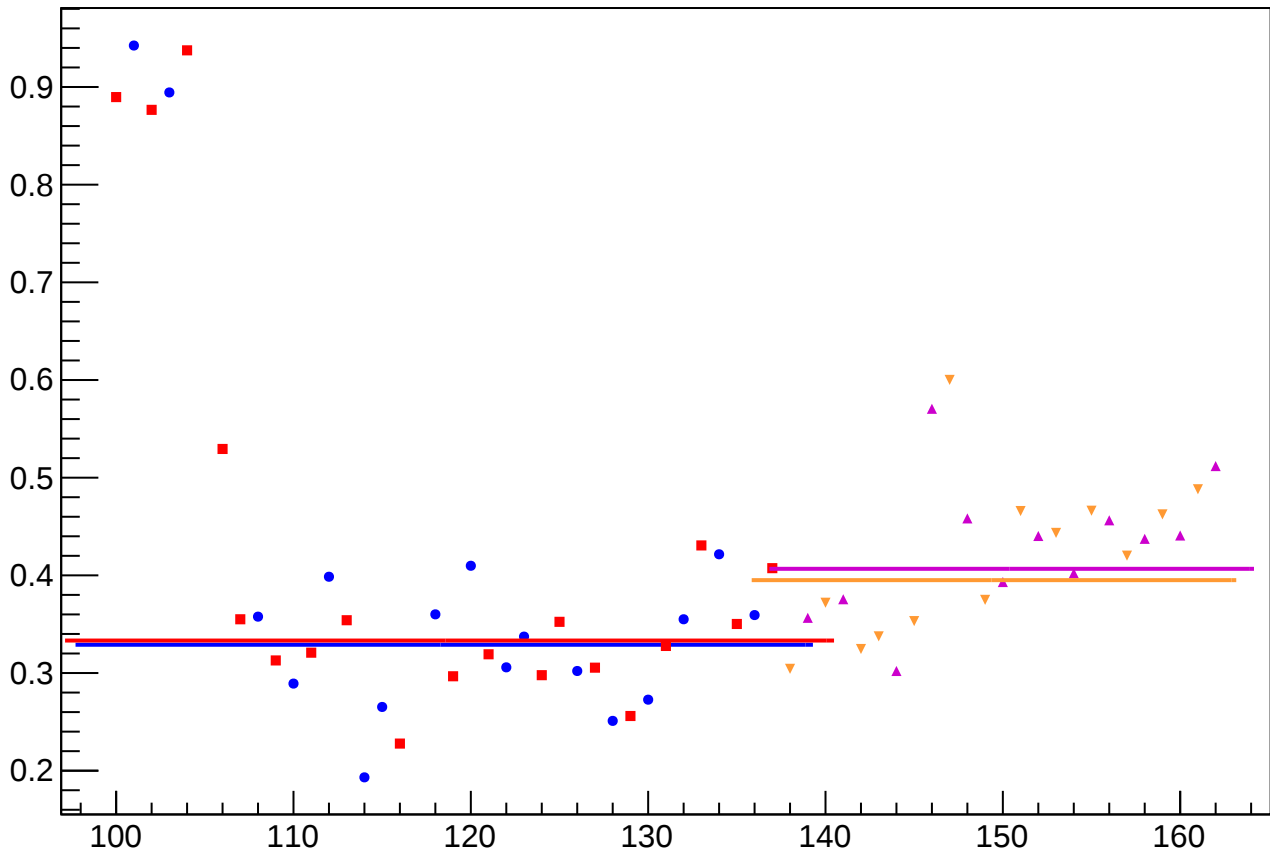
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.677 $\pm$ 0.000 χ^2 /NDF: 3994775650.4/28

Out: 146.527 $\pm$ 0.000 χ^2 /NDF: 4257172489.2/31

All: 146.110 $\pm$ 0.000 χ^2 /NDF: 8291027198.7

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.395+/-0.000 χ^2/NDF : 584825.2/12

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.407+/-0.000 χ^2/NDF : 492262.0/11

Left: 0.401+/-0.000 χ^2/NDF : 1084659.7/24

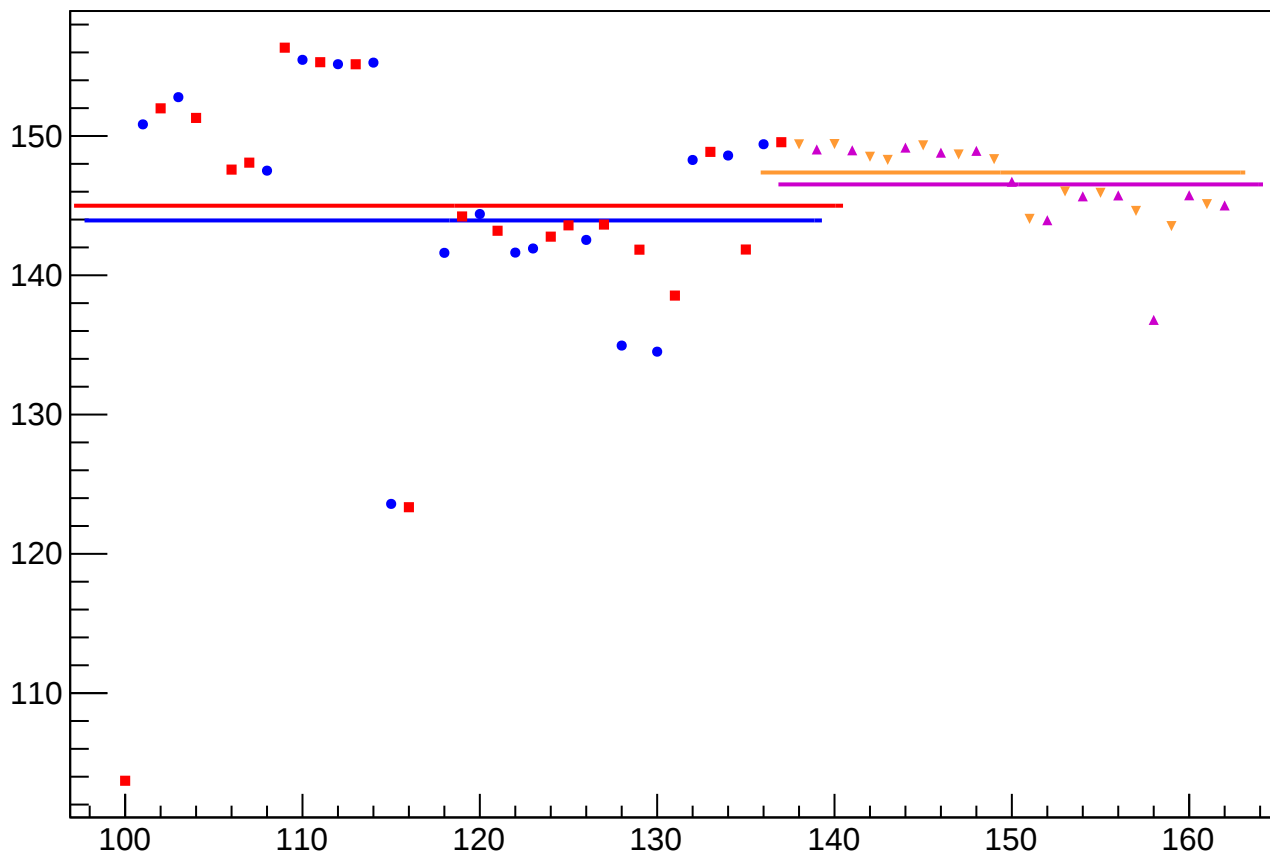
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.369+/-0.000 χ^2/NDF : 2089034.5/28

Out: 0.366+/-0.000 χ^2/NDF : 1977984.9/31

All: 0.367+/-0.000 χ^2/NDF : 4068357.8/60

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 147.379 $\pm$ 0.000 χ^2 /NDF: 248841149.9/12

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3934069043.2/18

Left In: 146.524 $\pm$ 0.000 χ^2 /NDF: 588723902.7/11

Left: 146.963 $\pm$ 0.000 χ^2 /NDF: 858037621.9/24

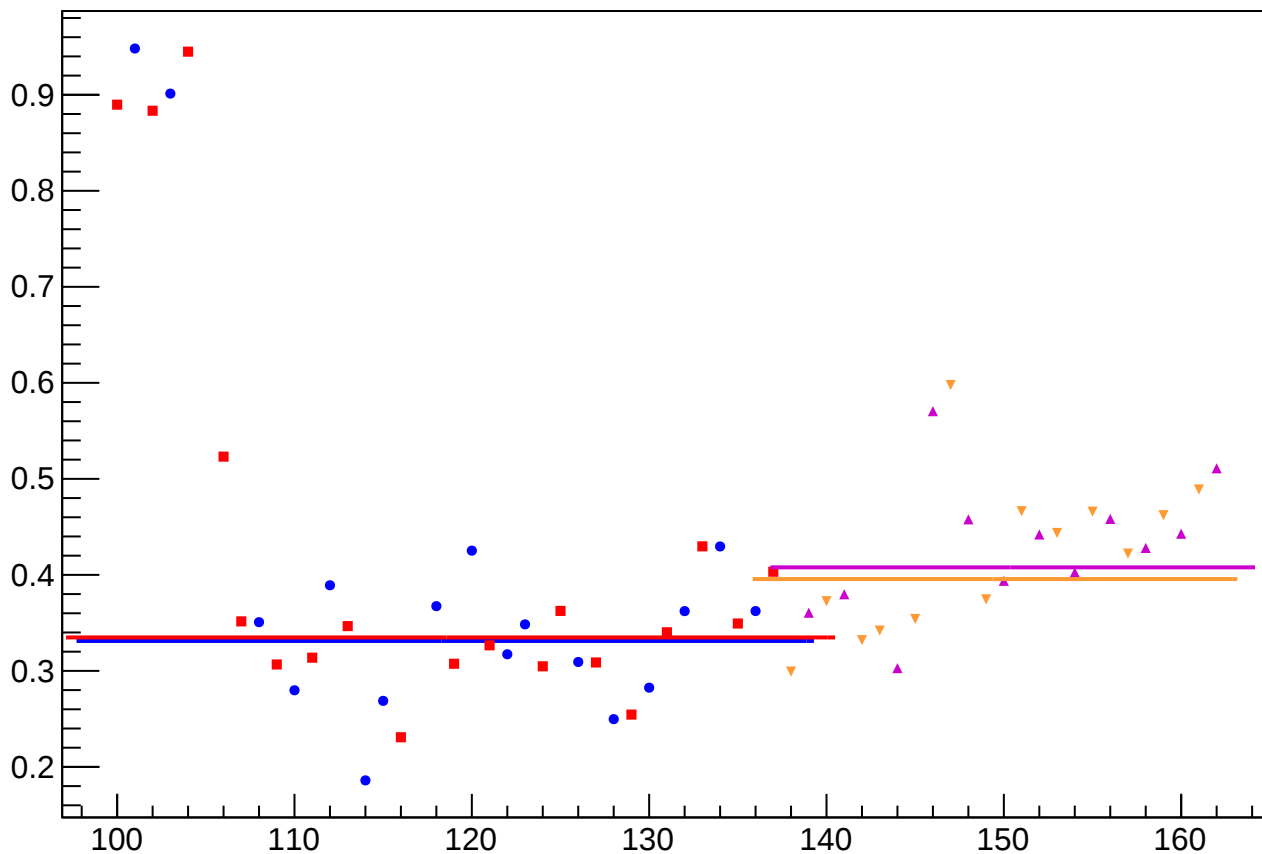
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.279 $\pm$ 0.000 χ^2 /NDF: 4143324313.8/28

Out: 146.245 $\pm$ 0.000 χ^2 /NDF: 4338329750.9/31

All: 145.773 $\pm$ 0.000 χ^2 /NDF: 8531675865.5

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.396+/-0.000 χ^2/NDF : 584735.1/12

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.408+/-0.000 χ^2/NDF : 476714.5/11

Left: 0.402+/-0.000 χ^2/NDF : 1069788.7/24

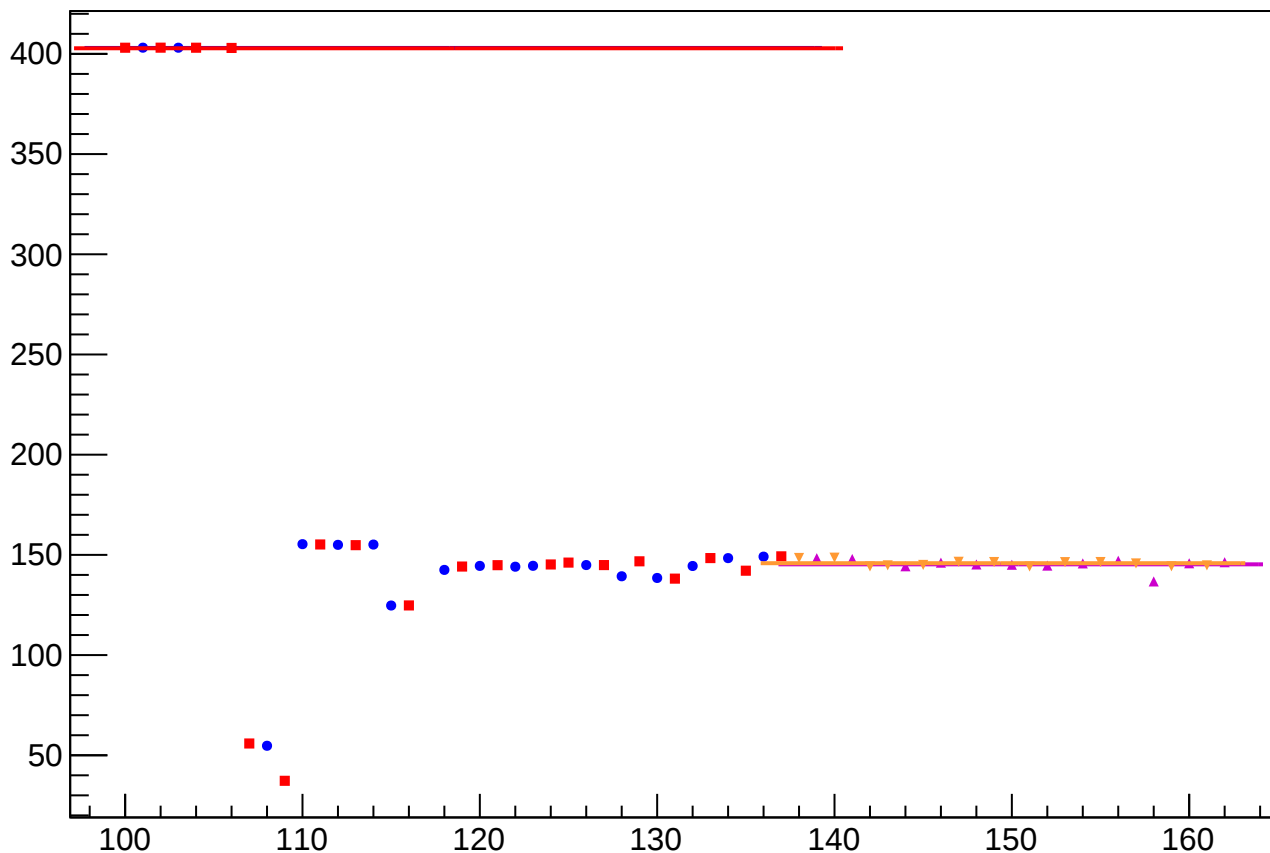
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.371+/-0.000 χ^2/NDF : 2080539.1/28

Out: 0.367+/-0.000 χ^2/NDF : 1959057.8/31

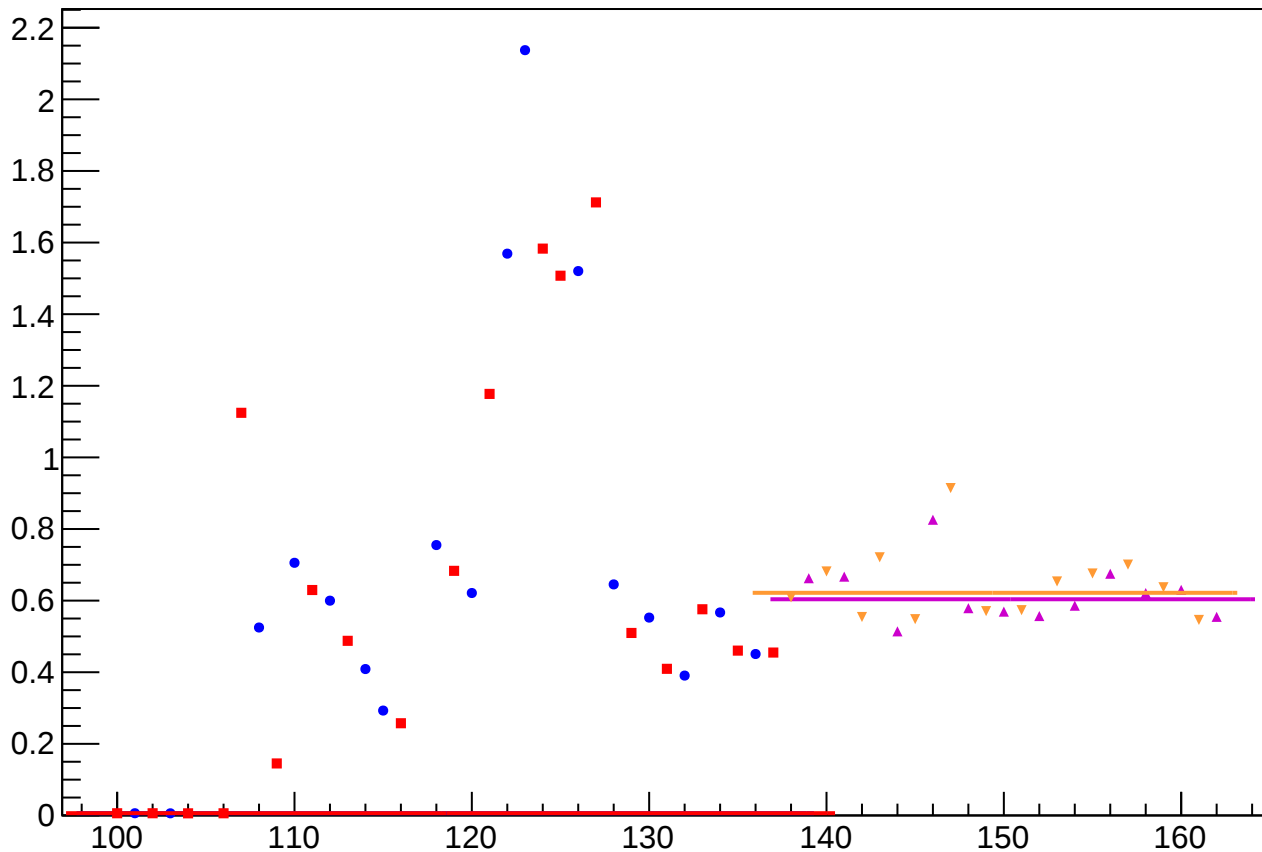
All: 0.369+/-0.000 χ^2/NDF : 4041532.8/60

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000 χ^2/NDF : 1096710296821.6/16
 Left Out: 145.847+/-0.000 χ^2/NDF : 38276033.2/12
 Right Out: 402.799+/-0.000 χ^2/NDF : 3103890772575.4/18
 Left In: 145.281+/-0.000 χ^2/NDF : 128890344.2/11
 Left: 145.554+/-0.000 χ^2/NDF : 169956608.6/24
 Right: 402.873+/-0.000 χ^2/NDF : 4201017642924.7/16
 In: 402.808+/-0.000 χ^2/NDF : 2293101469949.0/28
 Out: 402.677+/-0.000 χ^2/NDF : 4209692275110.7/3
 All: 402.738+/-0.000 χ^2/NDF : 650308081575.4/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.622+/-0.000 χ^2/NDF : 215252.9/12

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.604+/-0.000 χ^2/NDF : 168539.6/11

Left: 0.612+/-0.000 χ^2/NDF : 389449.6/24

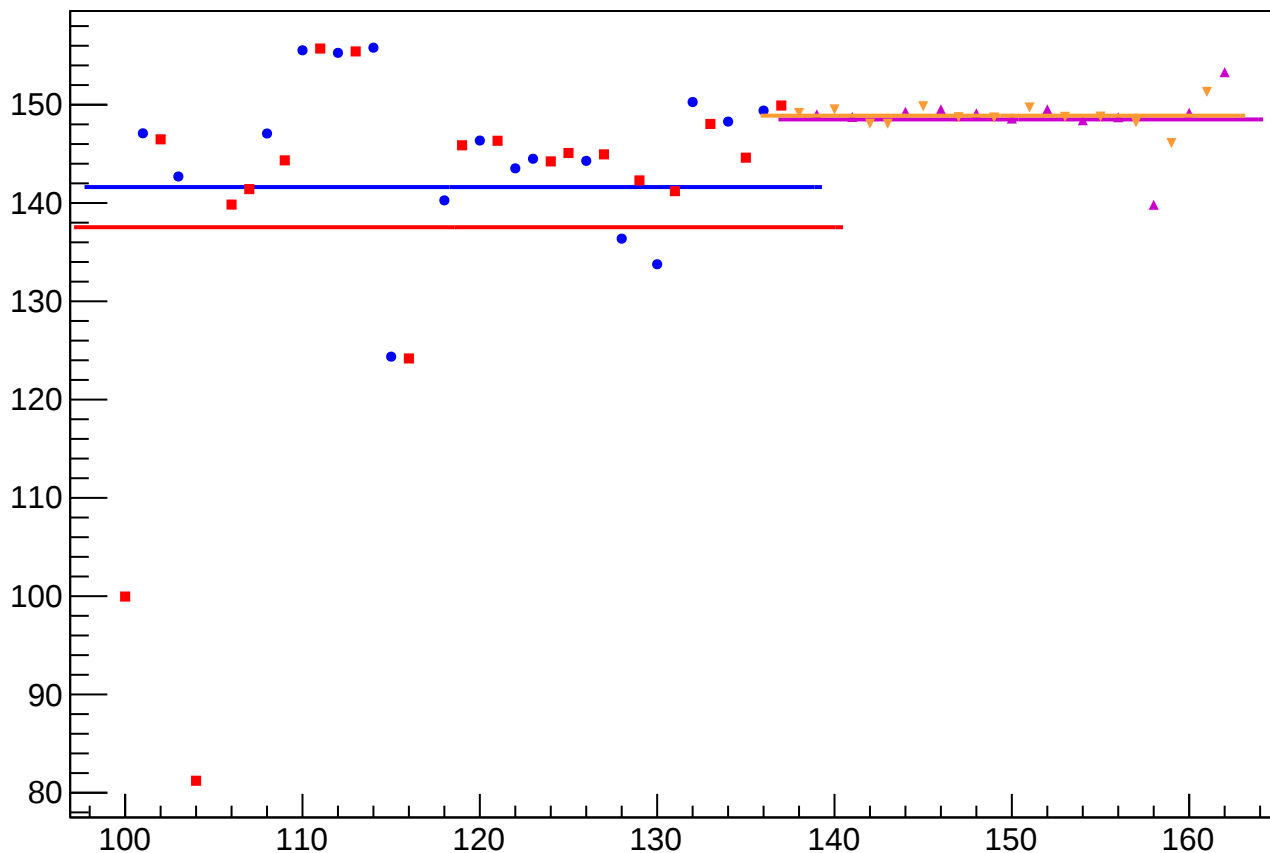
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 22191352.2/28

Out: 0.007+/-0.000 χ^2/NDF : 22117346.0/31

All: 0.007+/-0.000 χ^2/NDF : 44308835.9/60

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000

χ^2 /NDF: 982037737.7/16

Left: 148.696 $\pm$ 0.000

χ^2 /NDF: 359931448.8/24

Left Out: 148.889 $\pm$ 0.000

χ^2 /NDF: 46854531.4/12

Right: 139.530 $\pm$ 0.000

χ^2 /NDF: 2384319562.8/35

Right Out: 137.536 $\pm$ 0.000

χ^2 /NDF: 1315768553.6/18

In: 146.799 $\pm$ 0.000

χ^2 /NDF: 1653238186.5/28

Out: 145.994 $\pm$ 0.000

χ^2 /NDF: 2382385974.1/31

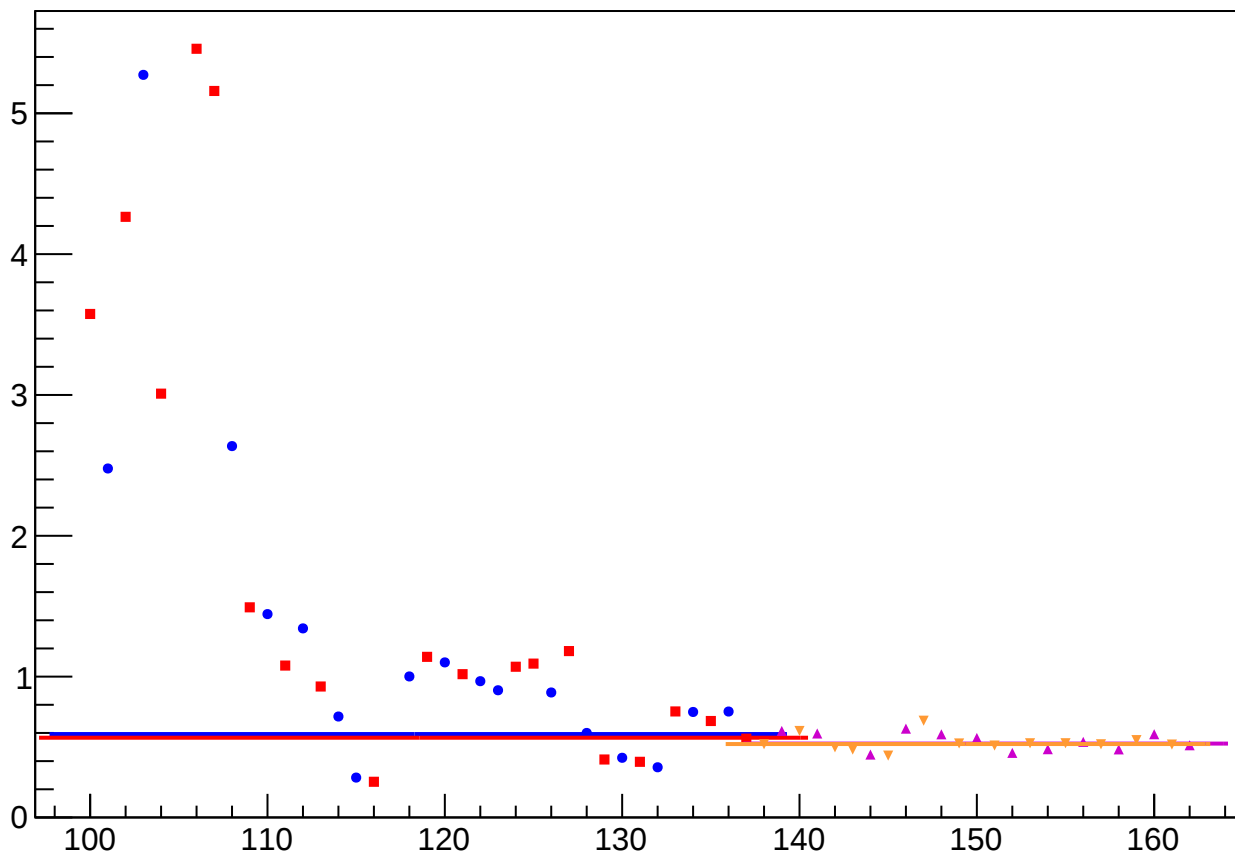
Left In: 148.502 $\pm$ 0.000

χ^2 /NDF: 310768141.0/11

All: 146.392 $\pm$ 0.000

χ^2 /NDF: 4048988174.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.521 $\pm$ 0.000 χ^2 /NDF:168226.5/12

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.524 $\pm$ 0.000 χ^2 /NDF:221964.7/11

Left: 0.523 $\pm$ 0.000 χ^2 /NDF: 390509.2/24

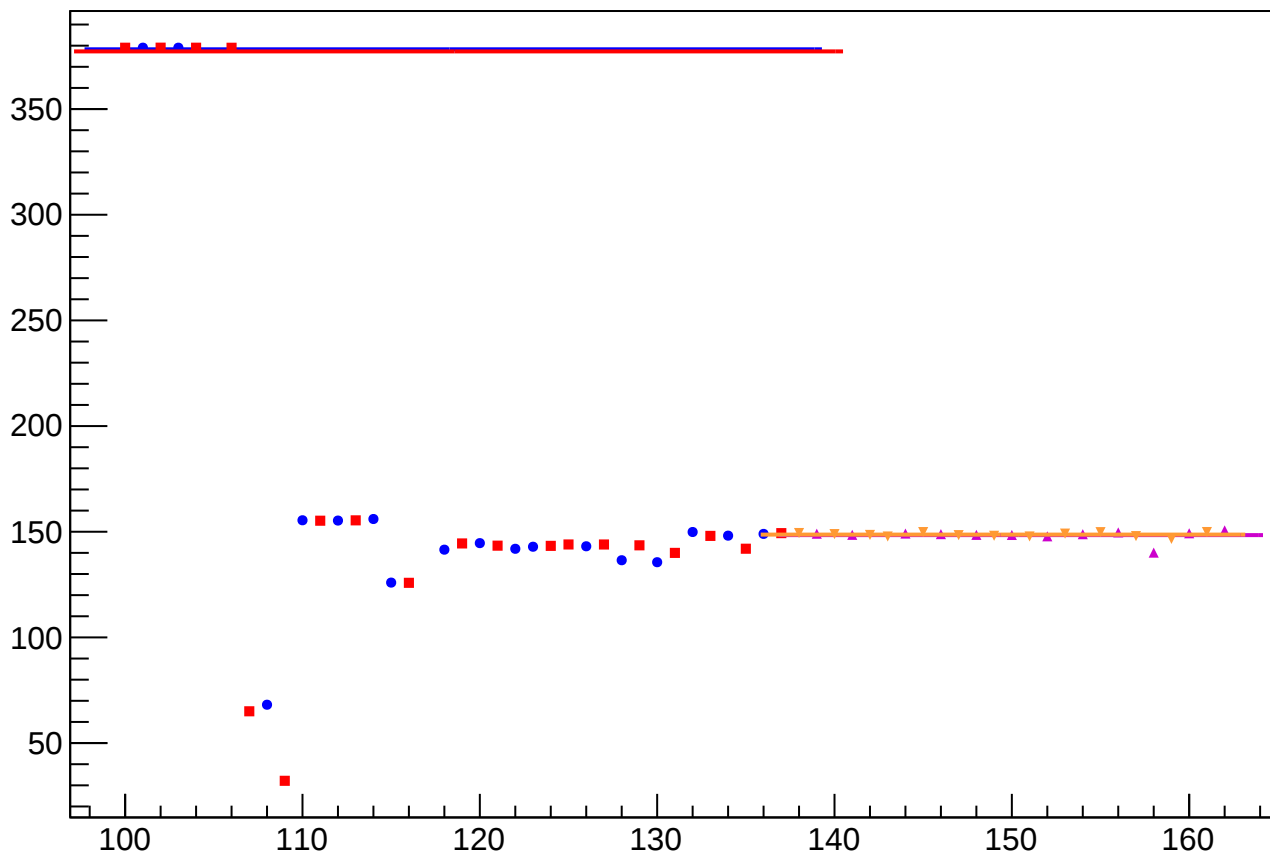
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.541 $\pm$ 0.000 χ^2 /NDF:3813471.9/28

Out: 0.533 $\pm$ 0.000 χ^2 /NDF:4882249.4/31

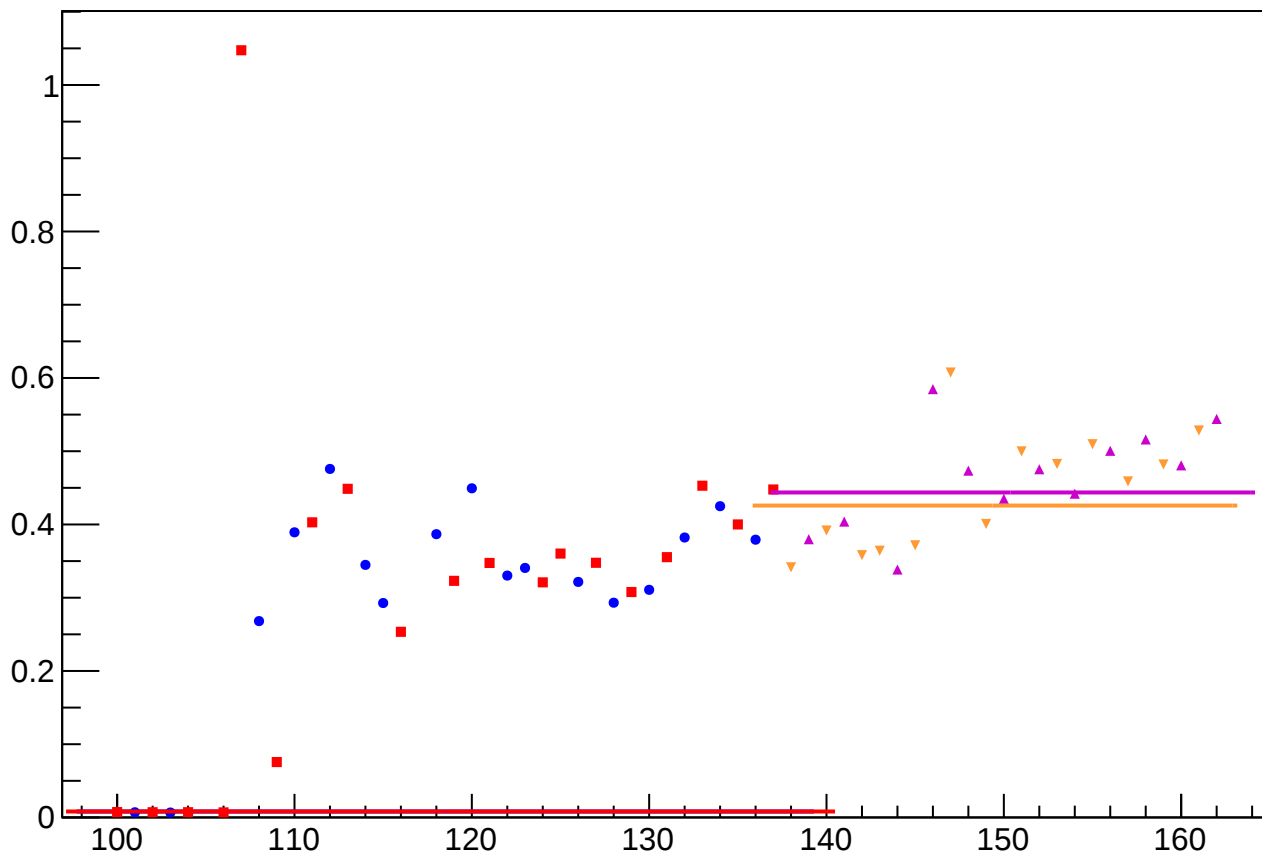
All: 0.537 $\pm$ 0.000 χ^2 /NDF: 8698731.0/60

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.530+/-0.000	χ^2/NDF : 268758411.5/24
Left Out: 148.648+/-0.000	χ^2/NDF : 43902277.9/12	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.1
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.480+/-0.000	χ^2/NDF : 4965625048126.6/28
Left In: 148.403+/-0.000	χ^2/NDF : 223405061.9/11	Out: 376.533+/-0.000	χ^2/NDF : 10904670477535.4
		All: 376.976+/-0.000	χ^2/NDF : 158766809863.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.426 $\pm$ 0.000 χ^2 /NDF:518027.2/12

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.444 $\pm$ 0.000 χ^2 /NDF:431658.9/11

Left: 0.434 $\pm$ 0.000 χ^2 /NDF: 965171.2/24

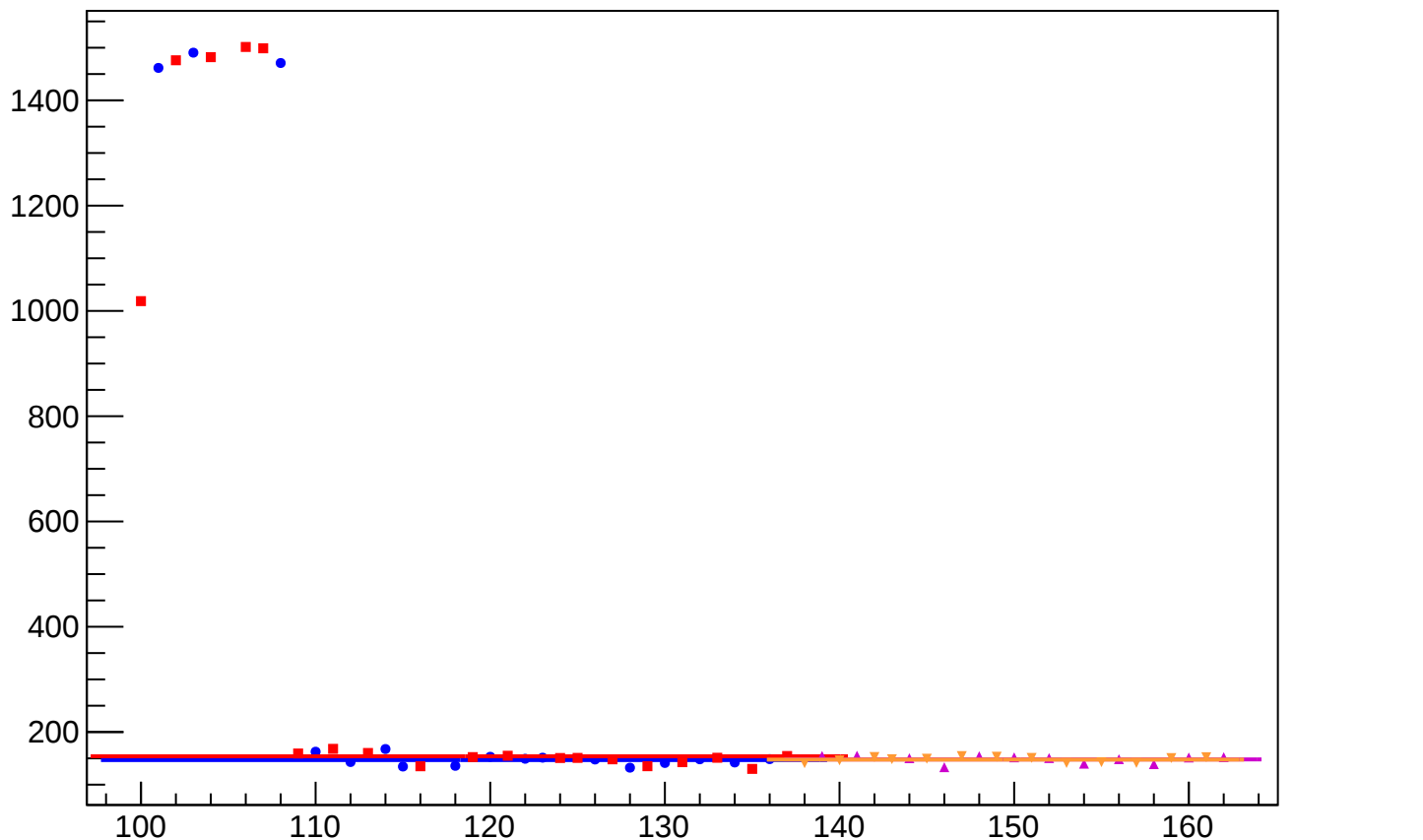
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:27931332.5/28

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:27572721.9/31

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 55504250.7/60

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000

χ^2/NDF : 24350870553.3/16

Left Out: 147.604+/-0.000

χ^2/NDF : 230051789.0/12

Right Out: 153.887+/-0.000

χ^2/NDF : 33738118250.9/18

Left In: 147.963+/-0.000

χ^2/NDF : 448987097.8/11

Left: 147.779+/-0.000

χ^2/NDF : 679673476.8/24

Right: 150.283+/-0.000

χ^2/NDF : 58225591435.1/35

In: 147.519+/-0.000

χ^2/NDF : 24805148025.5/28

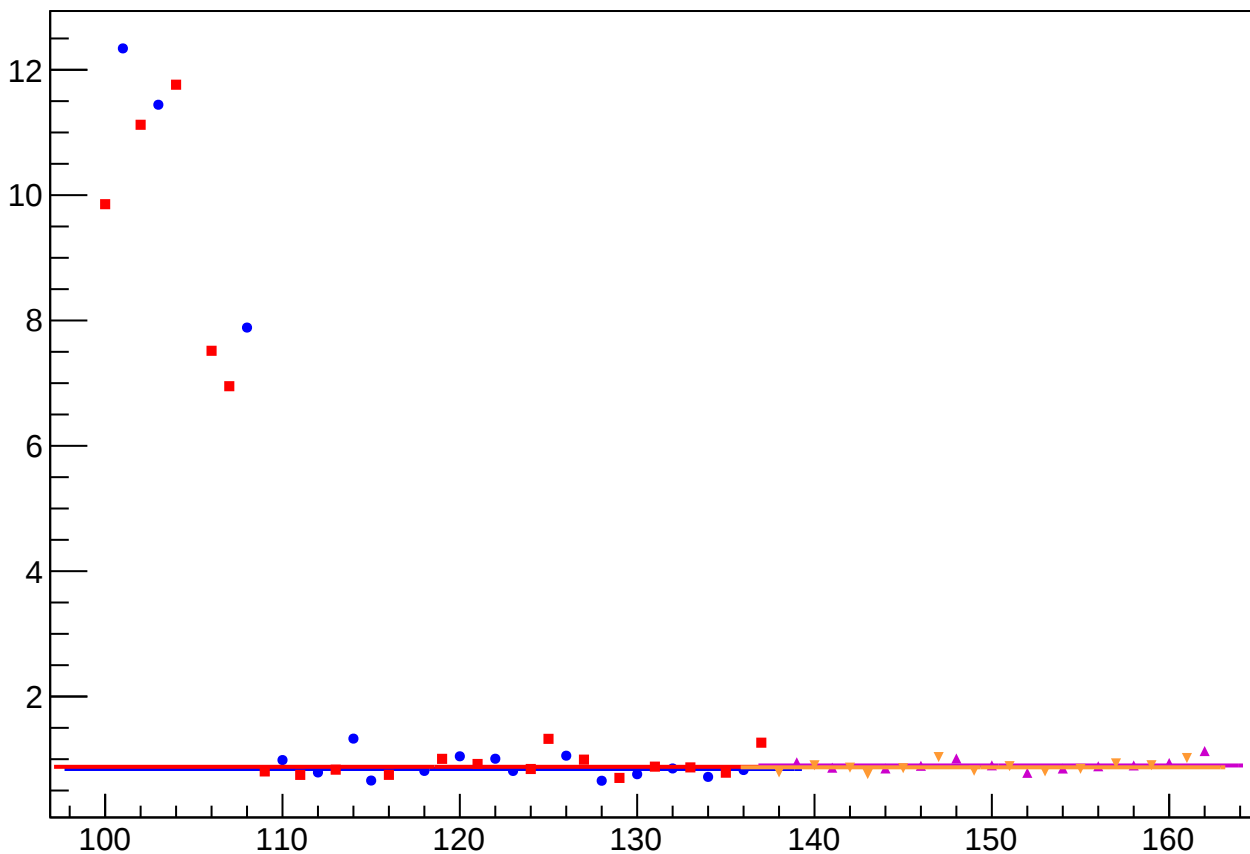
Out: 149.770+/-0.000

χ^2/NDF : 34105030558.1/31

All: 148.659+/-0.000

χ^2/NDF : 58948560595.1/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.870+/-0.000 χ^2/NDF :117099.6/12

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.900+/-0.000 χ^2/NDF :117052.9/11

Left: 0.885+/-0.000 χ^2/NDF : 242613.4/24

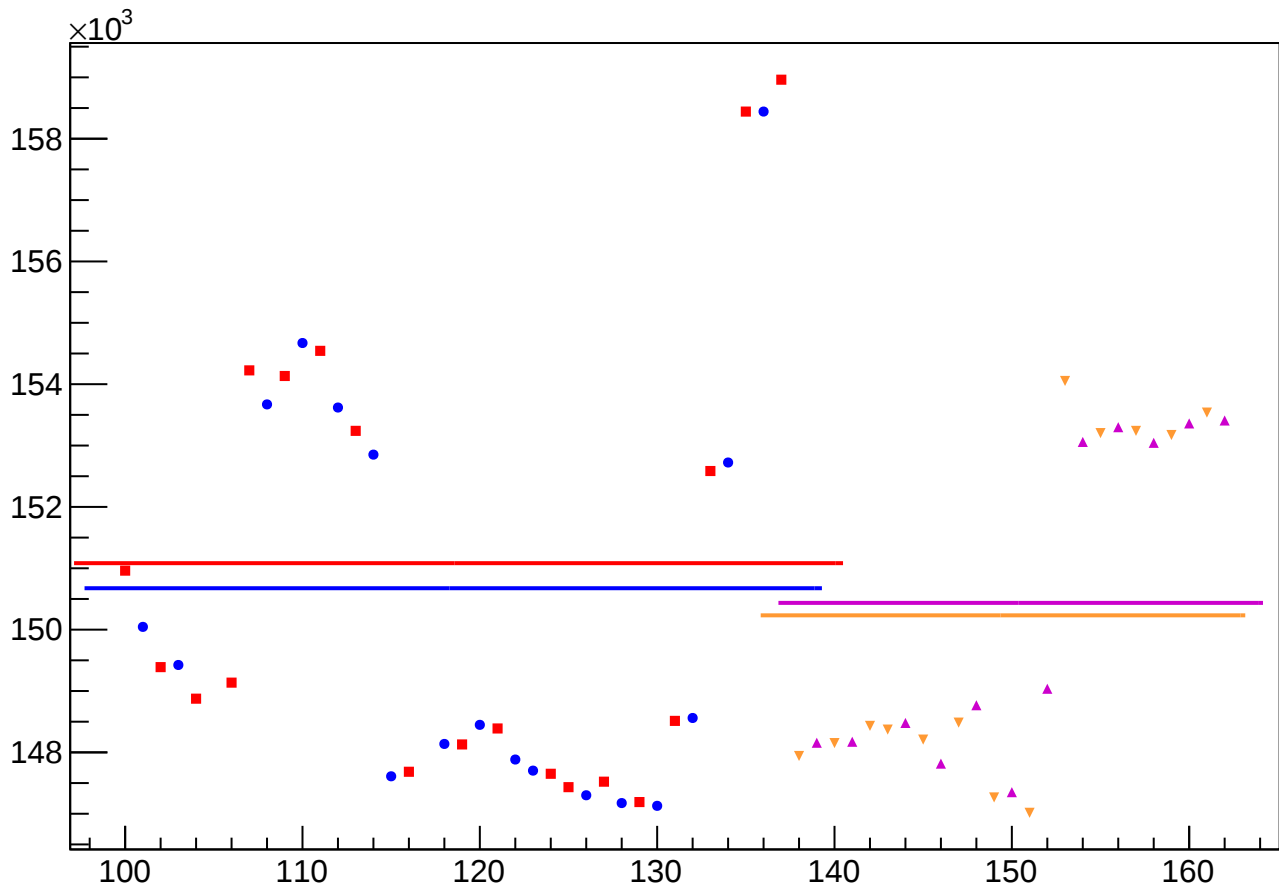
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.880+/-0.000 χ^2/NDF :2809166.4/28

Out: 0.873+/-0.000 χ^2/NDF :2930036.4/31

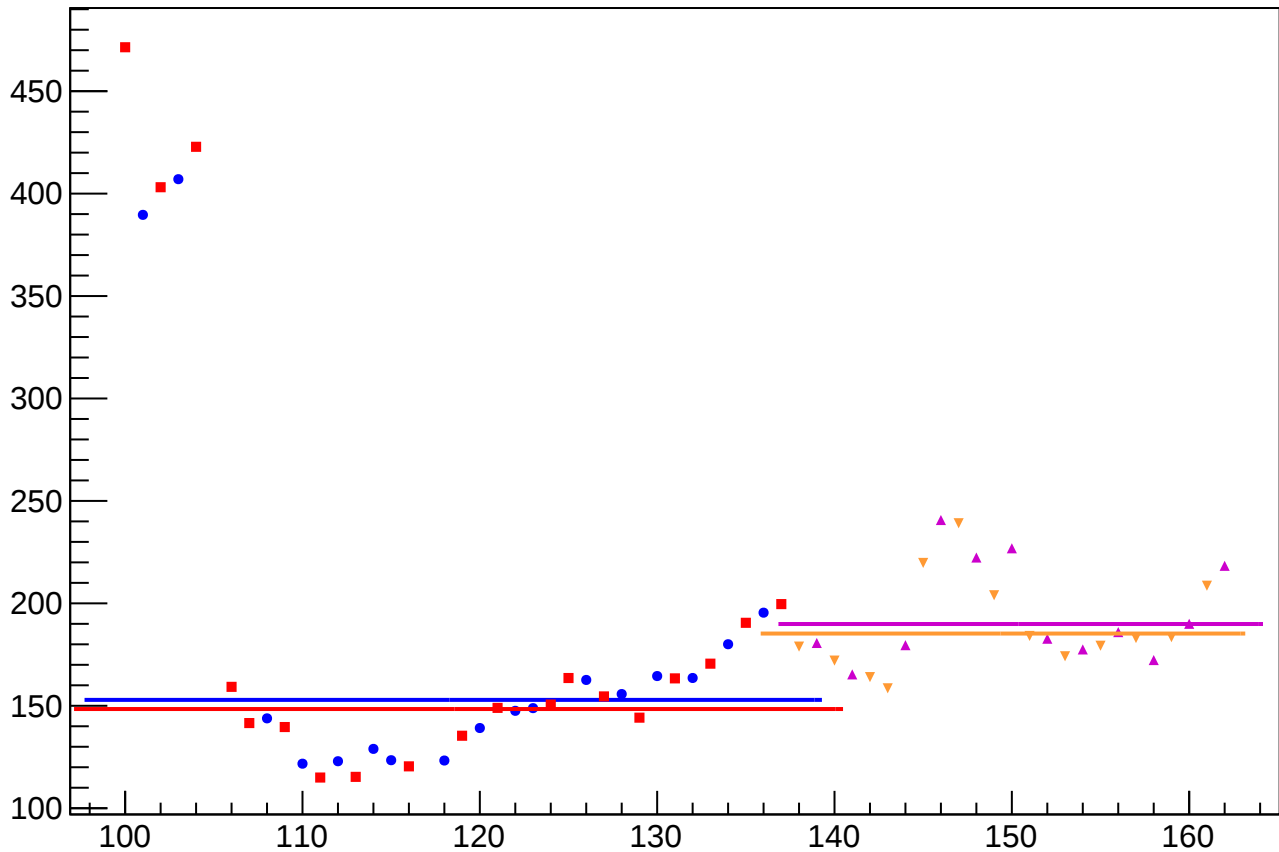
All: 0.876+/-0.000 χ^2/NDF : 5739847.3/60

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 150331.796 $\pm$ 0.043	χ^2 /NDF: 3690529467.0/2
Left Out: 150233.161 $\pm$ 0.060	χ^2 /NDF: 2096841185.7/12	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1/2
Right Out: 151083.268 $\pm$ 0.060	χ^2 /NDF: 3300830370.5/18	In: 150553.255 $\pm$ 0.044	χ^2 /NDF: 4905446855.3/28
Left In: 150436.135 $\pm$ 0.062	χ^2 /NDF: 1588133794.3/11	Out: 150660.661 $\pm$ 0.042	χ^2 /NDF: 5498499621.1/3
		All: 150609.139 $\pm$ 0.031	χ^2 /NDF: 104070348

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883+/-0.045 χ^2/NDF : 1154088.7/16

Left Out: 185.258+/-0.042 χ^2/NDF :220730.7/12

Right Out: 148.418+/-0.042 χ^2/NDF : 1191577.6/18

Left In: 189.915+/-0.044 χ^2/NDF :250100.1/11

Left: 187.521+/-0.030 χ^2/NDF : 476679.4/24

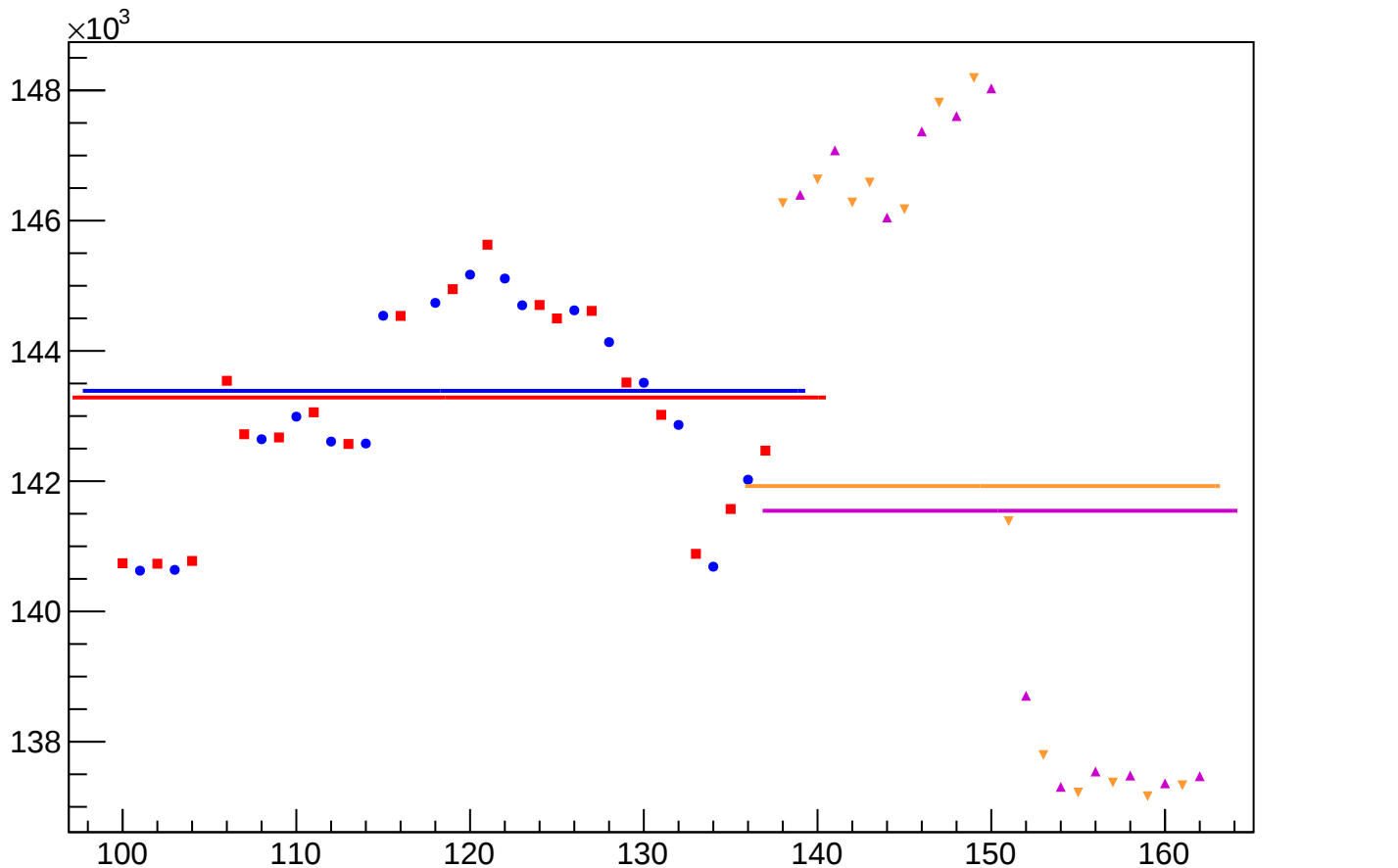
Right: 150.532+/-0.031 χ^2/NDF : 2350963.4/35

In: 171.760+/-0.031 χ^2/NDF :1756869.7/28

Out: 166.732+/-0.030 χ^2/NDF :1791016.1/31

All: 169.144+/-0.022 χ^2/NDF : 3561419.6/60

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053 χ^2 /NDF: 521299875.7/16

Left Out: 141924.913 $\pm$ 0.057 χ^2 /NDF: 6328151269.5/12

Right Out: 143284.757 $\pm$ 0.049 χ^2 /NDF: 608634820.1/18

Left In: 141545.706 $\pm$ 0.058 χ^2 /NDF: 6336667480.0/11

Left: 141739.825 $\pm$ 0.041 χ^2 /NDF: 12686547509.5/10

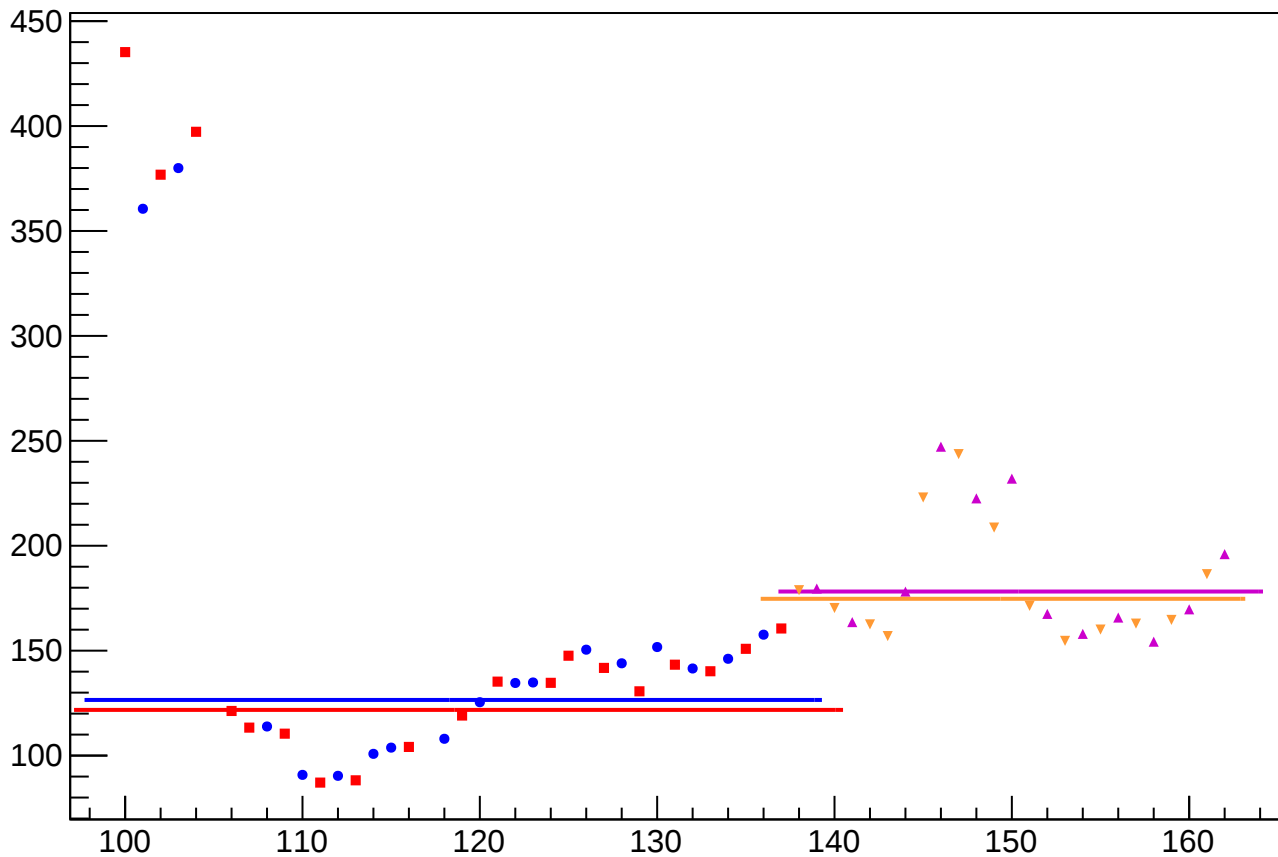
Right: 143332.291 $\pm$ 0.036 χ^2 /NDF: 1131952524.8/10

In: 142557.154 $\pm$ 0.039 χ^2 /NDF: 7407737279.0/28

Out: 142703.580 $\pm$ 0.037 χ^2 /NDF: 7264596101.4/30

All: 142634.054 $\pm$ 0.027 χ^2 /NDF: 146797077.0/68

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 174.712 $\pm$ 0.040 χ^2 /NDF:321221.8/12

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 178.184 $\pm$ 0.041 χ^2 /NDF:388345.4/11

Left: 176.407 $\pm$ 0.029 χ^2 /NDF: 713210.2/24

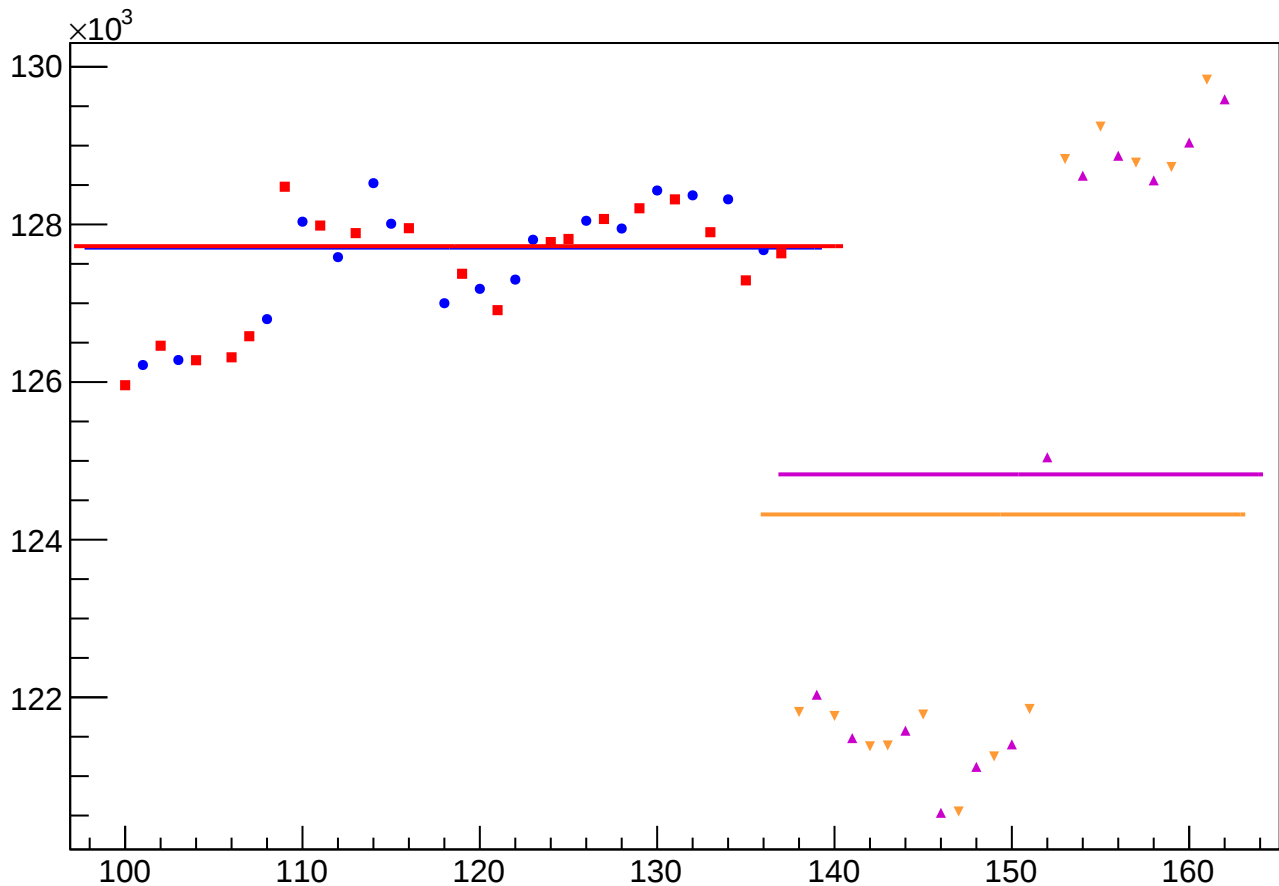
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 149.802 $\pm$ 0.028 χ^2 /NDF:2695783.6/28

Out: 144.398 $\pm$ 0.026 χ^2 /NDF:2778715.7/31

All: 146.964 $\pm$ 0.019 χ^2 /NDF: 5494592.6/60

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058 χ^2/NDF : 97860521.1/16

Left Out: 124320.296 $\pm$ 0.055 χ^2/NDF : 4410888771.7/12

Right Out: 127724.256 $\pm$ 0.055 χ^2/NDF : 112614317.2/18

Left In: 124828.756 $\pm$ 0.054 χ^2/NDF : 4314659964.8/11

Left: 124579.248 $\pm$ 0.038 χ^2/NDF : 8769494743.5/2

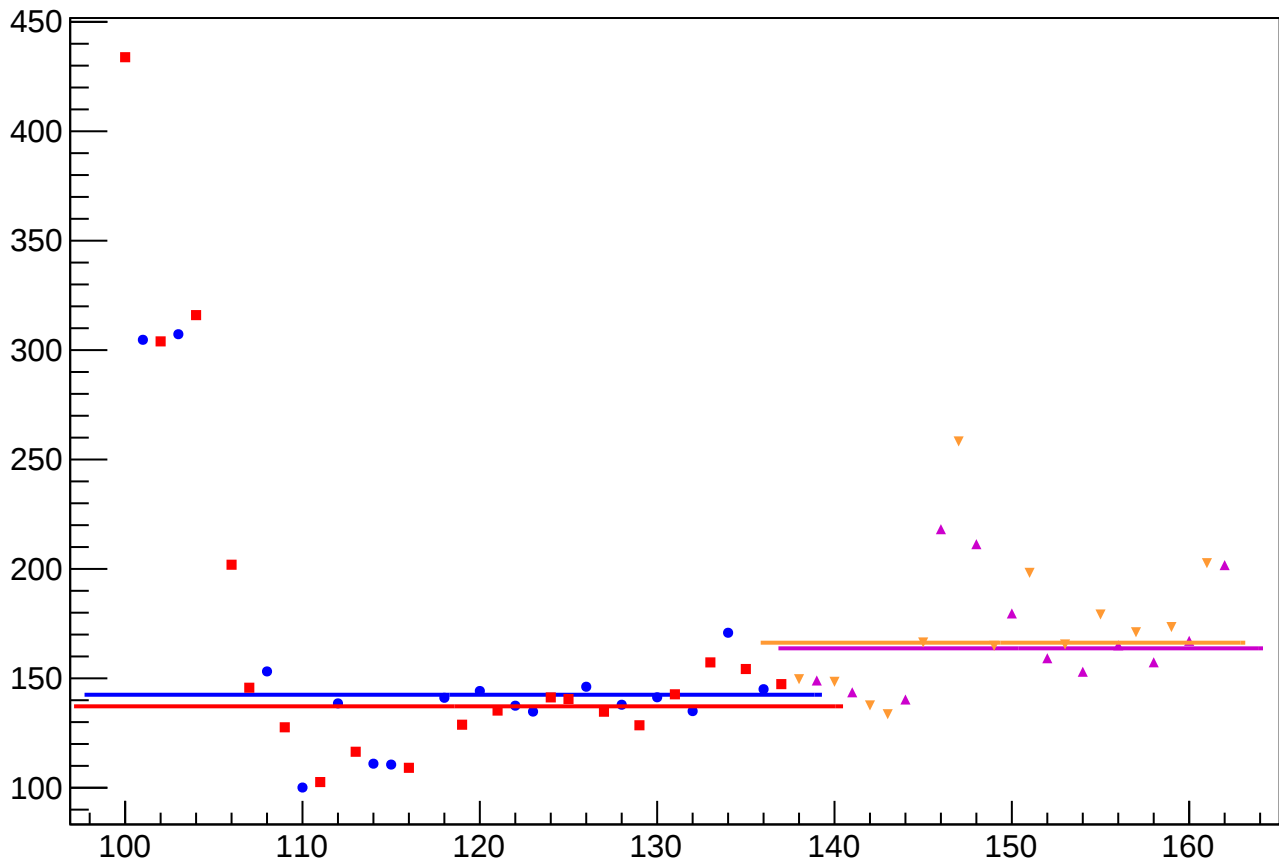
Right: 127715.791 $\pm$ 0.040 χ^2/NDF : 210526259.6/3

In: 126156.188 $\pm$ 0.039 χ^2/NDF : 5735630762.6/28

Out: 126028.808 $\pm$ 0.039 χ^2/NDF : 6464597252.0/3

All: 126091.186 $\pm$ 0.028 χ^2/NDF : 122055525

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 166.290 $\pm$ 0.039 χ^2 /NDF: 449875.2/12

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 163.712 $\pm$ 0.038 χ^2 /NDF: 347577.7/11

Left: 164.977 $\pm$ 0.027 χ^2 /NDF: 799712.8/24

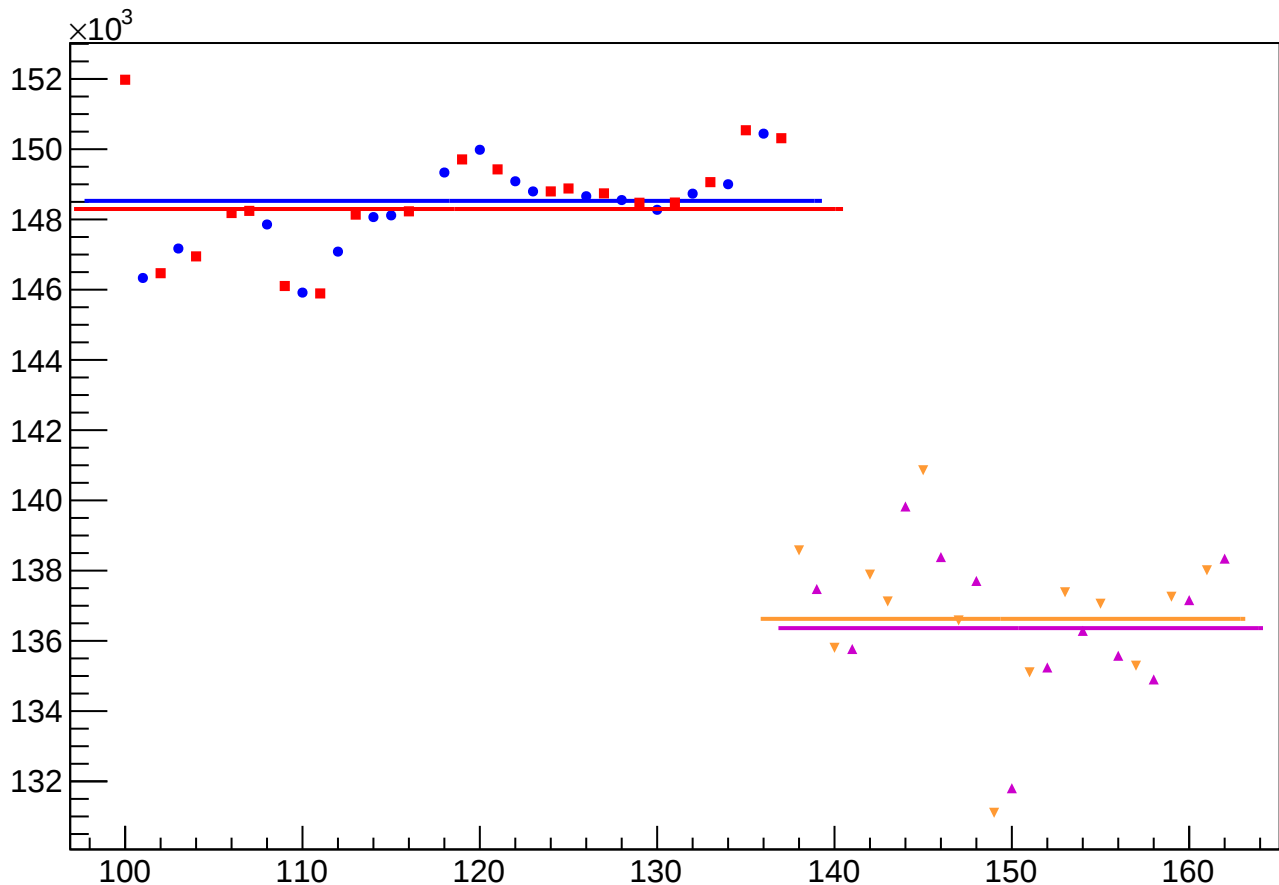
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 153.927 $\pm$ 0.028 χ^2 /NDF: 1327622.6/28

Out: 151.695 $\pm$ 0.027 χ^2 /NDF: 1690496.1/31

All: 152.788 $\pm$ 0.020 χ^2 /NDF: 3021388.3/60

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136626.968 $\pm$ 0.080 χ^2 /NDF: 790231438.0/12

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136362.657 $\pm$ 0.080 χ^2 /NDF: 626474611.4/11

Left: 136493.291 $\pm$ 0.057 χ^2 /NDF: 1422167242.0/2

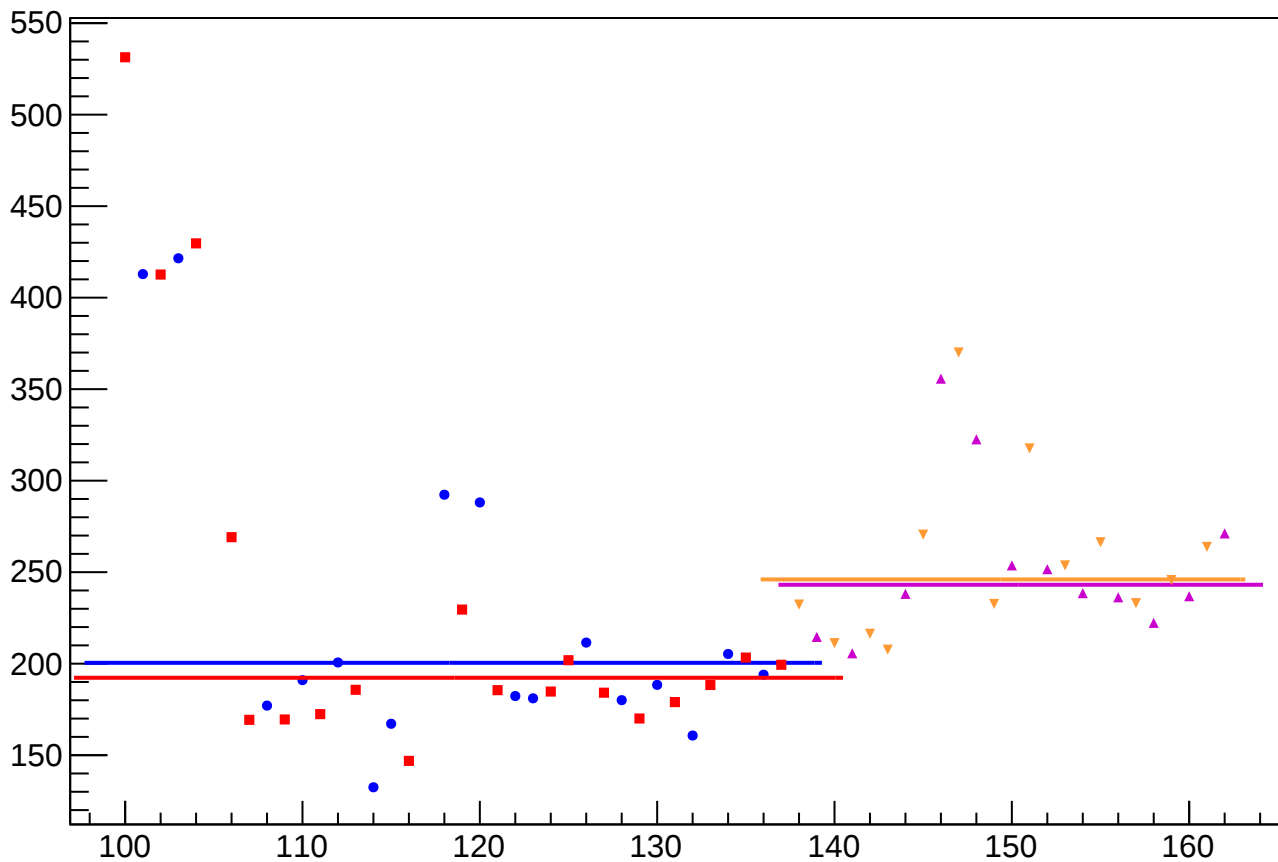
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 142253.284 $\pm$ 0.057 χ^2 /NDF: 12171708744.7/2

Out: 142761.210 $\pm$ 0.055 χ^2 /NDF: 12148569838.1

All: 142514.960 $\pm$ 0.040 χ^2 /NDF: 243610336

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 246.036+/-0.057 χ^2/NDF : 398391.8/12

Right Out: 192.304+/-0.054 χ^2/NDF : 844504.1/18

Left In: 243.116+/-0.056 χ^2/NDF : 368255.0/11

Left: 244.559+/-0.040 χ^2/NDF : 767980.3/24

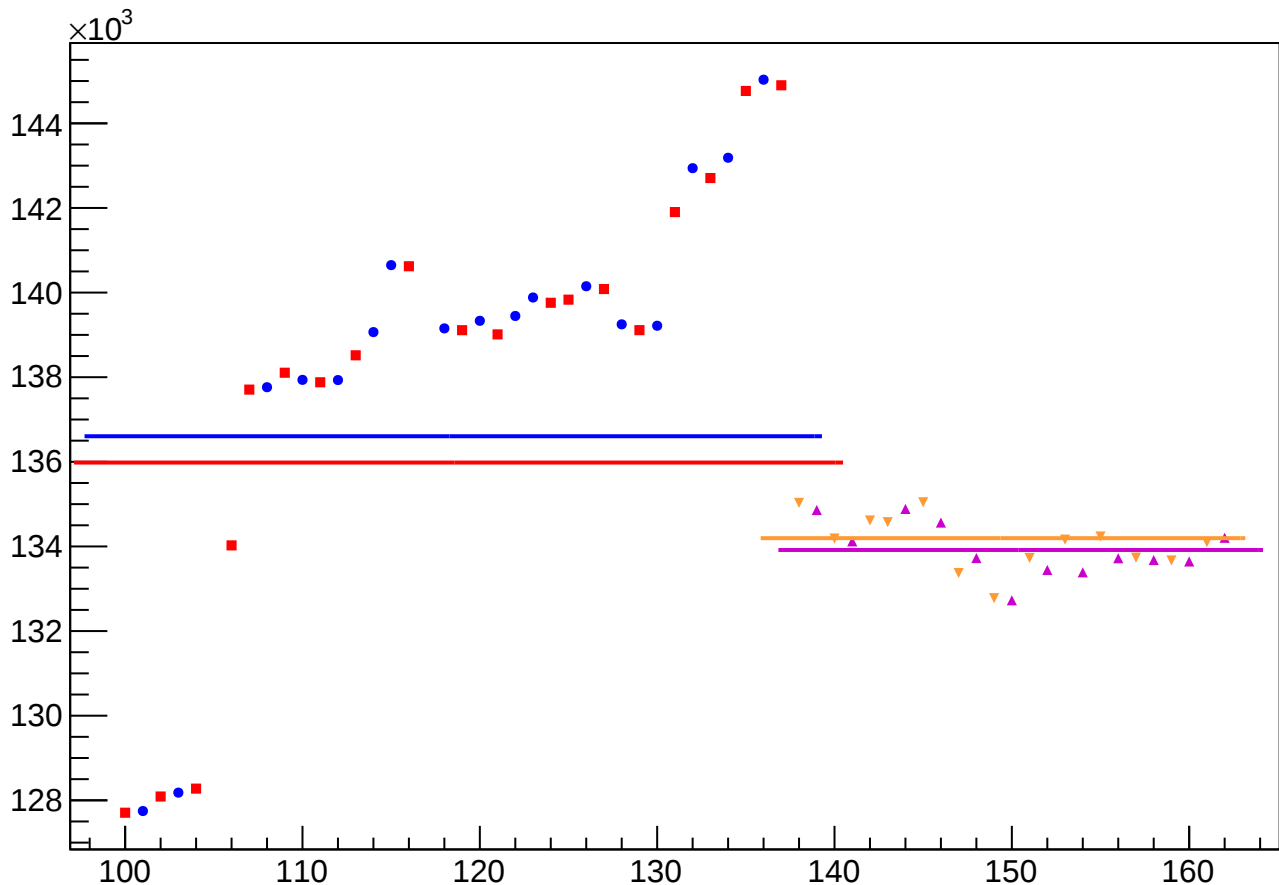
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 222.469+/-0.040 χ^2/NDF : 1583321.9/28

Out: 217.793+/-0.039 χ^2/NDF : 1712030.3/31

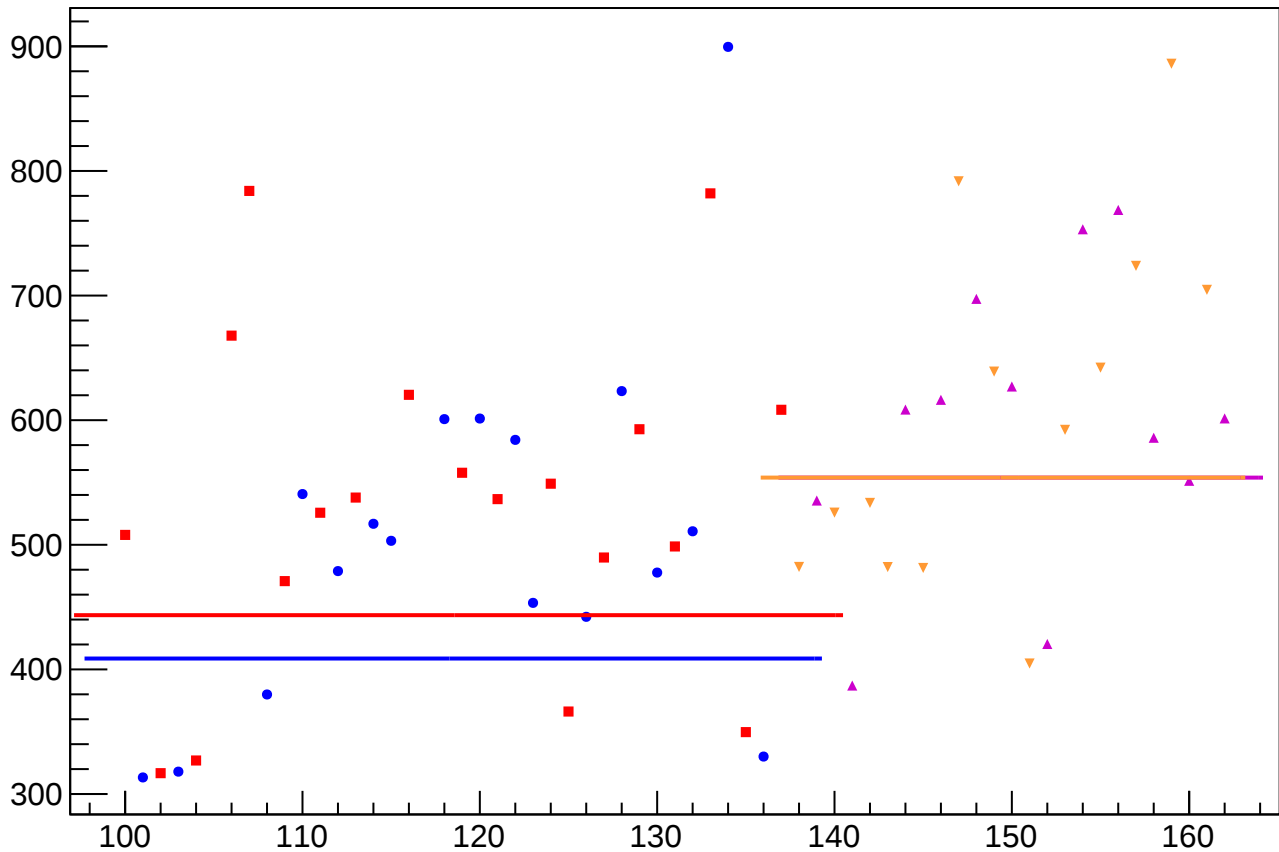
All: 220.060+/-0.028 χ^2/NDF : 3302259.6/60

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134059.120 $\pm$ 0.137	χ^2 /NDF: 21086139.8/24
Left Out: 134195.608 $\pm$ 0.191	χ^2 /NDF: 10892839.6/12	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/12
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135436.559 $\pm$ 0.129	χ^2 /NDF: 1610333831.8/28
Left In: 133916.695 $\pm$ 0.196	χ^2 /NDF: 9154575.0/11	Out: 135131.033 $\pm$ 0.132	χ^2 /NDF: 1138940776.9/32
		All: 135287.598 $\pm$ 0.092	χ^2 /NDF: 275201312.0/40

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 553.930 $\pm$ 0.135 χ^2 /NDF: 800400.7/12

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 553.905 $\pm$ 0.138 χ^2 /NDF: 704906.6/11

Left: 553.918 $\pm$ 0.097 χ^2 /NDF: 1505307.3/24

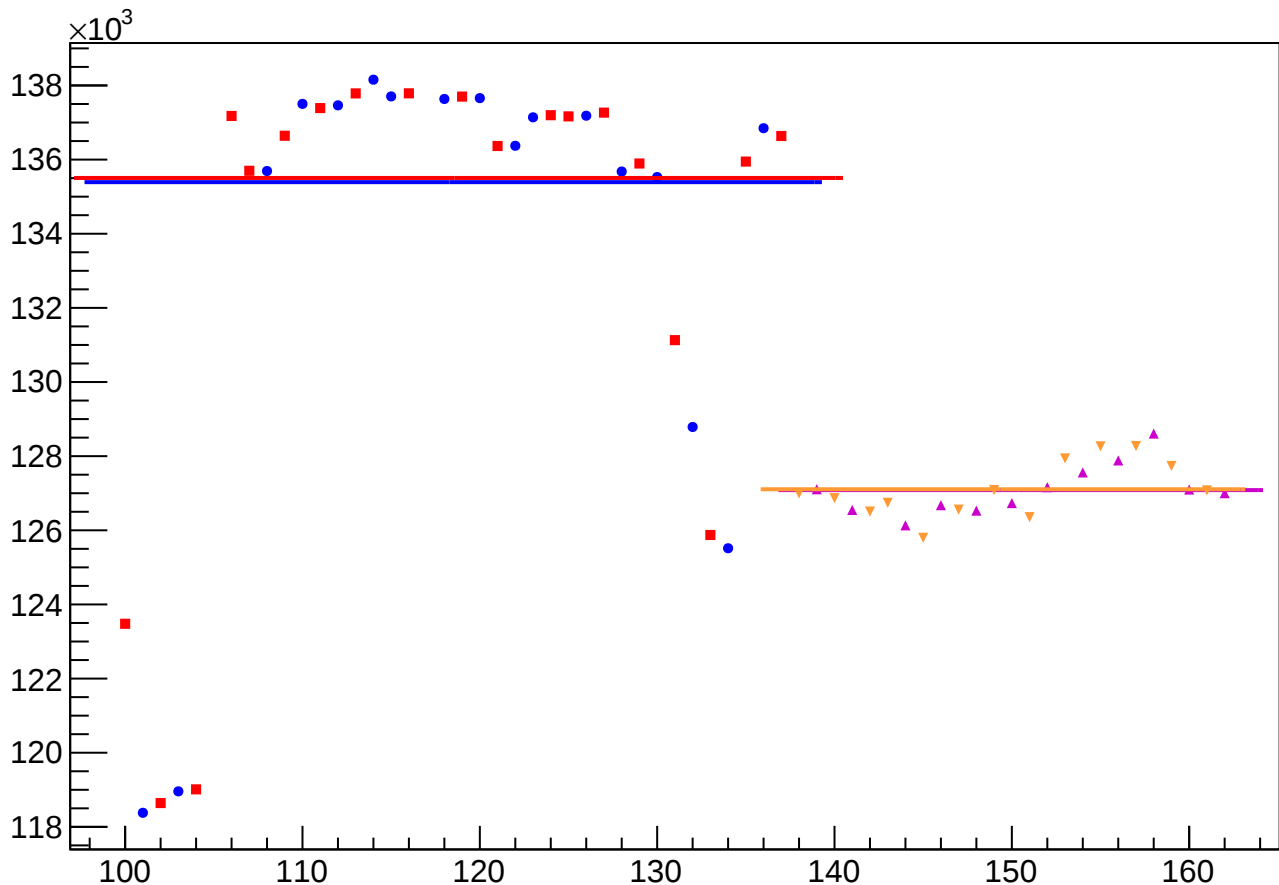
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 471.817 $\pm$ 0.091 χ^2 /NDF: 2151402.6/28

Out: 496.143 $\pm$ 0.093 χ^2 /NDF: 2066072.3/31

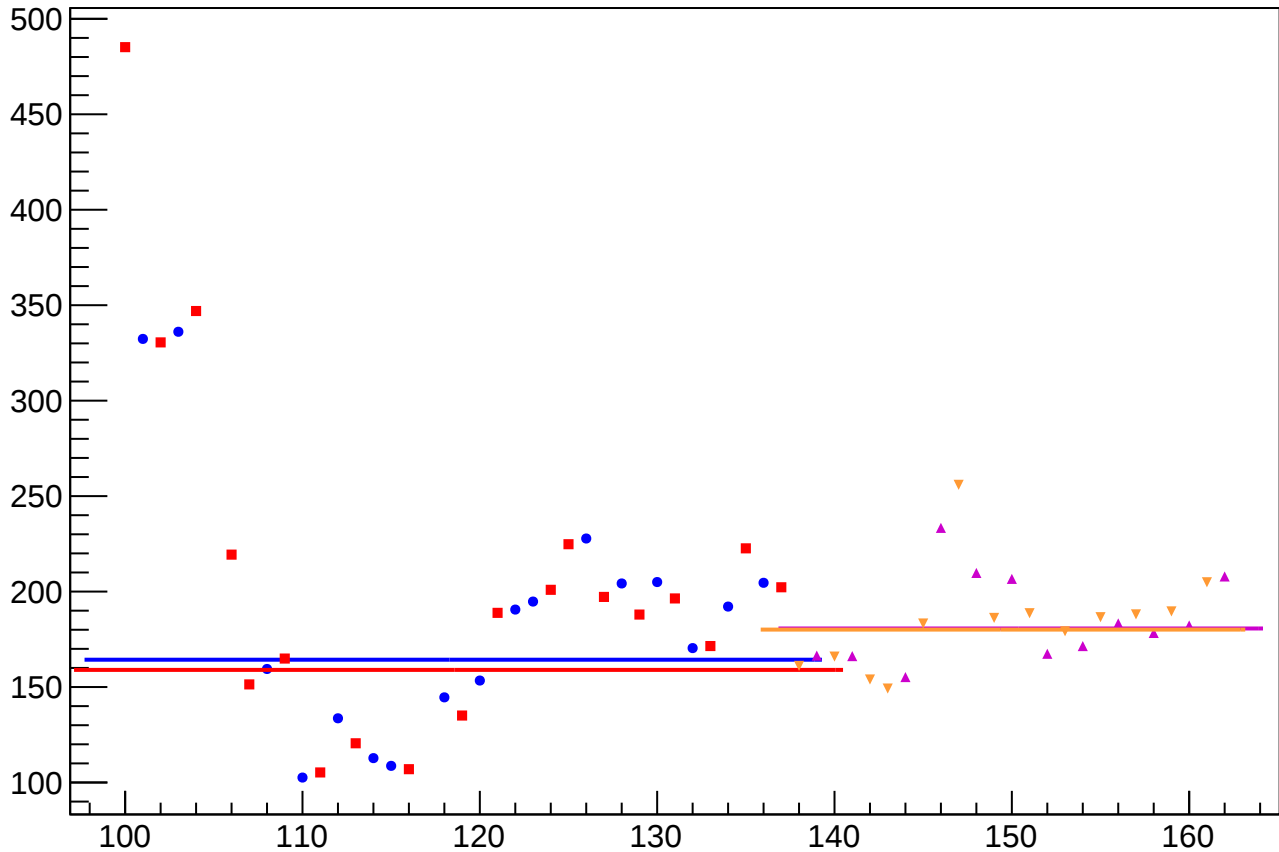
All: 483.677 $\pm$ 0.065 χ^2 /NDF: 4252195.8/60

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127095.738 $\pm$ 0.042	χ^2 /NDF: 282383124.2/24
Left Out: 127107.143 $\pm$ 0.059	χ^2 /NDF: 150826182.7/12	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/12
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130630.629 $\pm$ 0.045	χ^2 /NDF: 13198556447.1/24
Left In: 127084.249 $\pm$ 0.059	χ^2 /NDF: 131481167.3/11	Out: 130918.486 $\pm$ 0.043	χ^2 /NDF: 14170634774.9/12
		All: 130778.556 $\pm$ 0.031	χ^2 /NDF: 273905961.0/12

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 180.086+/-0.042 χ^2/NDF : 284050.6/12

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 180.669+/-0.042 χ^2/NDF : 246801.9/11

Left: 180.376+/-0.029 χ^2/NDF : 530950.7/24

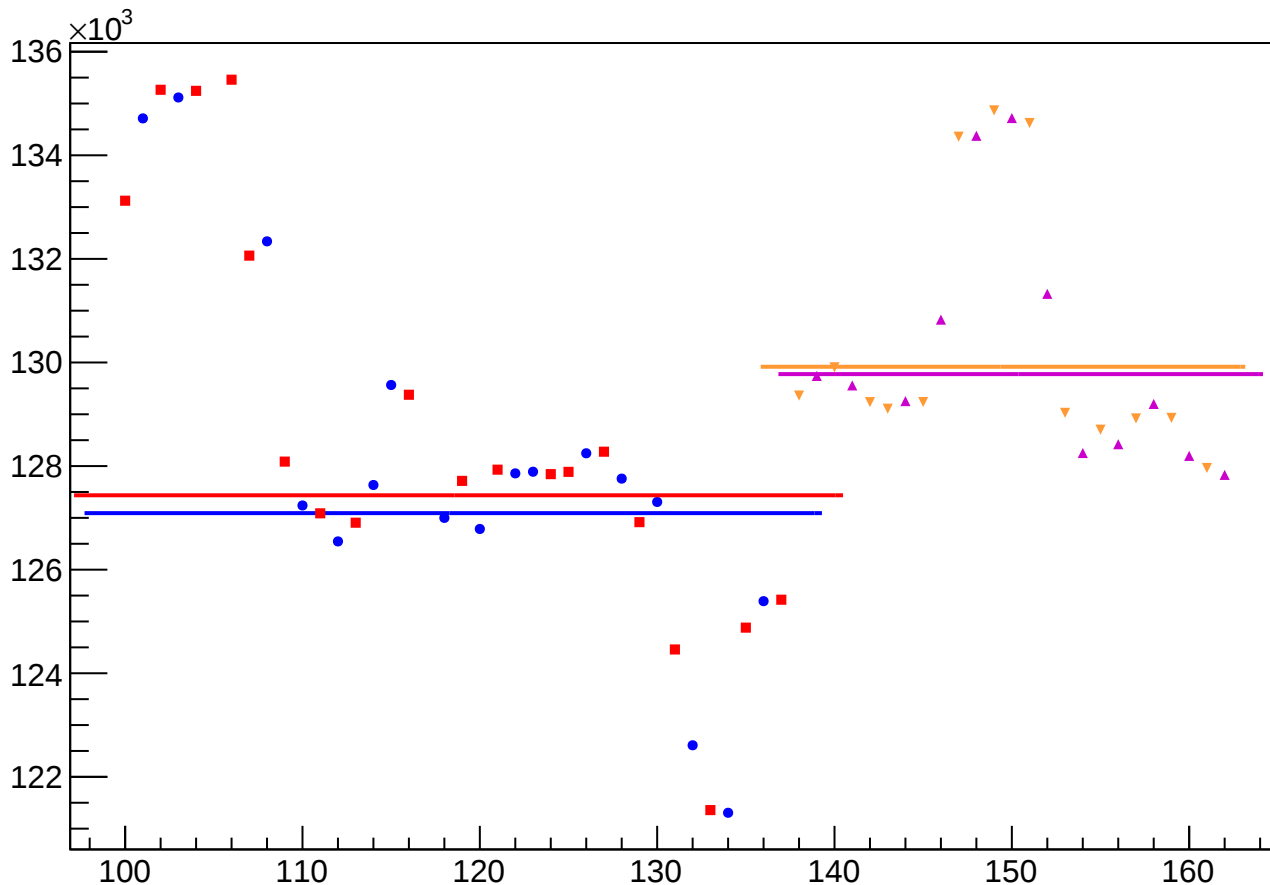
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 173.686+/-0.032 χ^2/NDF : 1543102.7/28

Out: 170.506+/-0.031 χ^2/NDF : 1785493.4/31

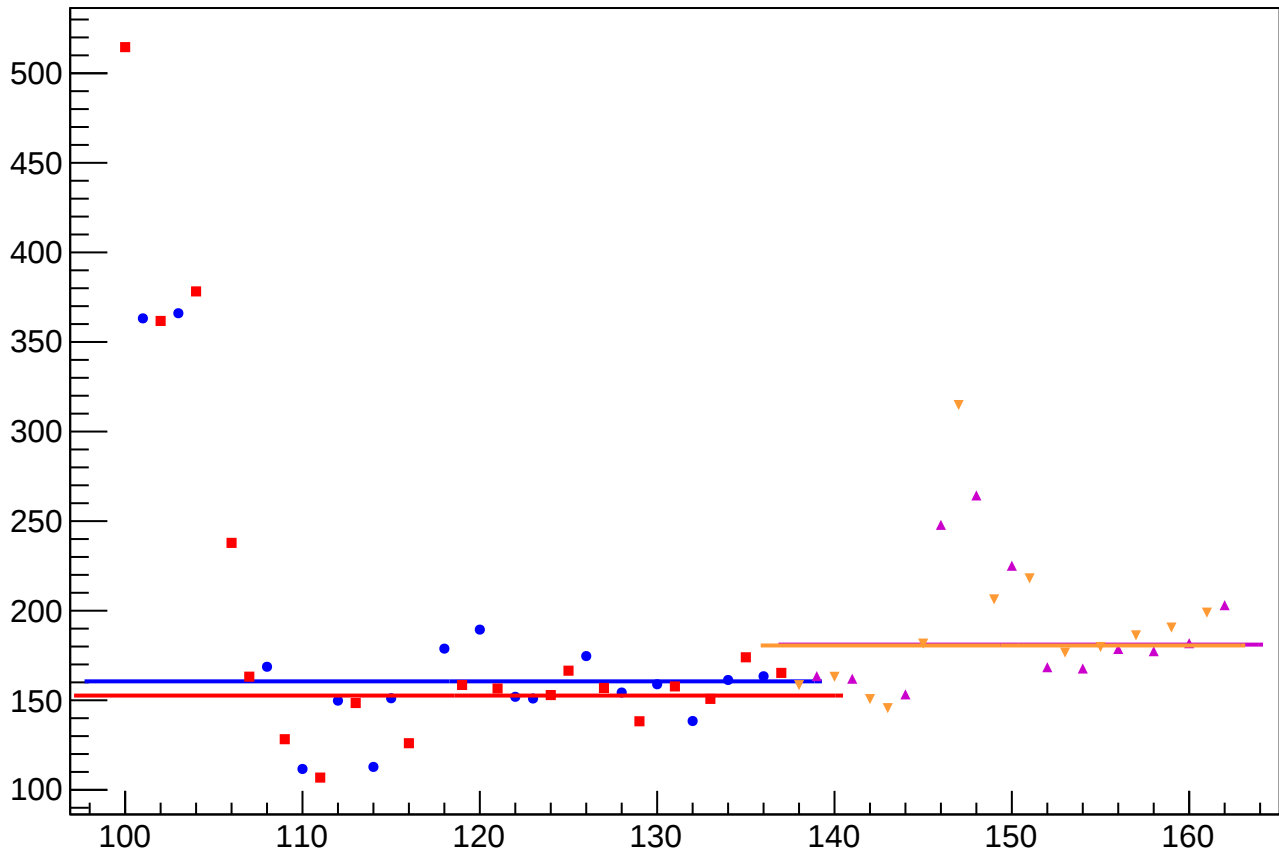
All: 172.052+/-0.022 χ^2/NDF : 3333820.0/60

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066	χ^2 /NDF: 1717208780.6/16	Left: 129846.538 $\pm$ 0.042	χ^2 /NDF: 2177662485.1/2
Left Out: 129917.510 $\pm$ 0.059	χ^2 /NDF: 1186138153.1/12	Right: 127276.609 $\pm$ 0.045	χ^2 /NDF: 3810794624.3/3
Right Out: 127436.101 $\pm$ 0.062	χ^2 /NDF: 2079075713.9/18	In: 128579.581 $\pm$ 0.044	χ^2 /NDF: 3614410337.1/28
Left In: 129775.523 $\pm$ 0.059	χ^2 /NDF: 988670428.7/11	Out: 128720.326 $\pm$ 0.043	χ^2 /NDF: 4106526009.3/3
		All: 128652.396 $\pm$ 0.031	χ^2 /NDF: 772616816

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 180.600 $\pm$ 0.042 χ^2 /NDF: 523235.2/12

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 181.076 $\pm$ 0.042 χ^2 /NDF: 465916.1/11

Left: 180.838 $\pm$ 0.030 χ^2 /NDF: 989215.4/24

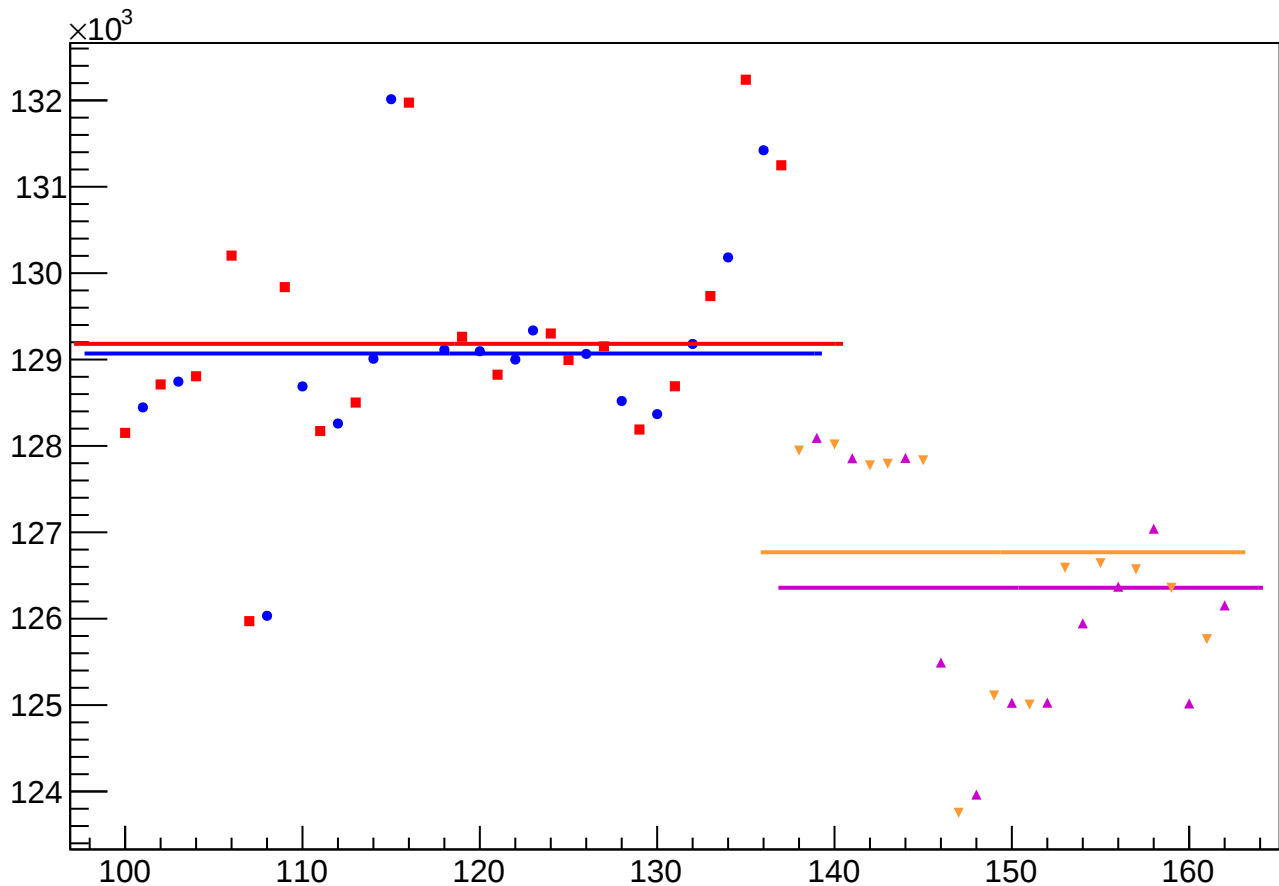
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 171.936 $\pm$ 0.031 χ^2 /NDF: 1514786.6/28

Out: 167.105 $\pm$ 0.030 χ^2 /NDF: 1823545.0/31

All: 169.437 $\pm$ 0.022 χ^2 /NDF: 3350661.4/60

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2/NDF : 476692316.5/16

Left Out: 126769.059 $\pm$ 0.057

χ^2/NDF : 432286586.8/12

Right Out: 129181.887 $\pm$ 0.056

χ^2/NDF : 625597399.6/18

Left In: 126358.256 $\pm$ 0.057

χ^2/NDF : 507199569.1/11

Left: 126564.778 $\pm$ 0.040

χ^2/NDF : 965409190.0/24

Right: 129129.710 $\pm$ 0.041

χ^2/NDF : 1104150743.5/12

In: 127645.586 $\pm$ 0.041

χ^2/NDF : 2050413320.2/28

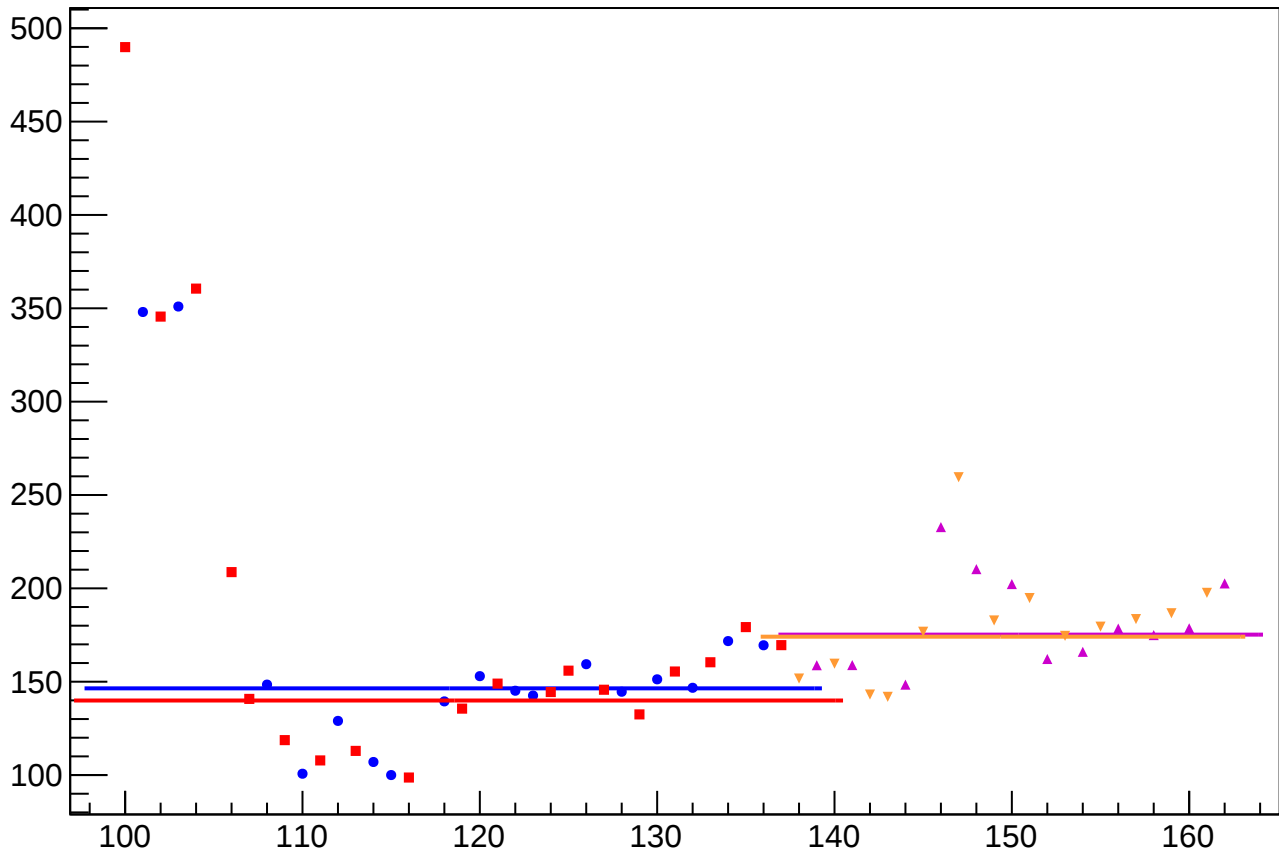
Out: 127992.671 $\pm$ 0.040

χ^2/NDF : 1969882050.7/3

All: 127825.588 $\pm$ 0.029

χ^2/NDF : 405664140.0/10

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 174.113 $\pm$ 0.040 χ^2 /NDF:374561.5/12

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 175.215 $\pm$ 0.040 χ^2 /NDF:301770.3/11

Left: 174.661 $\pm$ 0.029 χ^2 /NDF: 676704.2/24

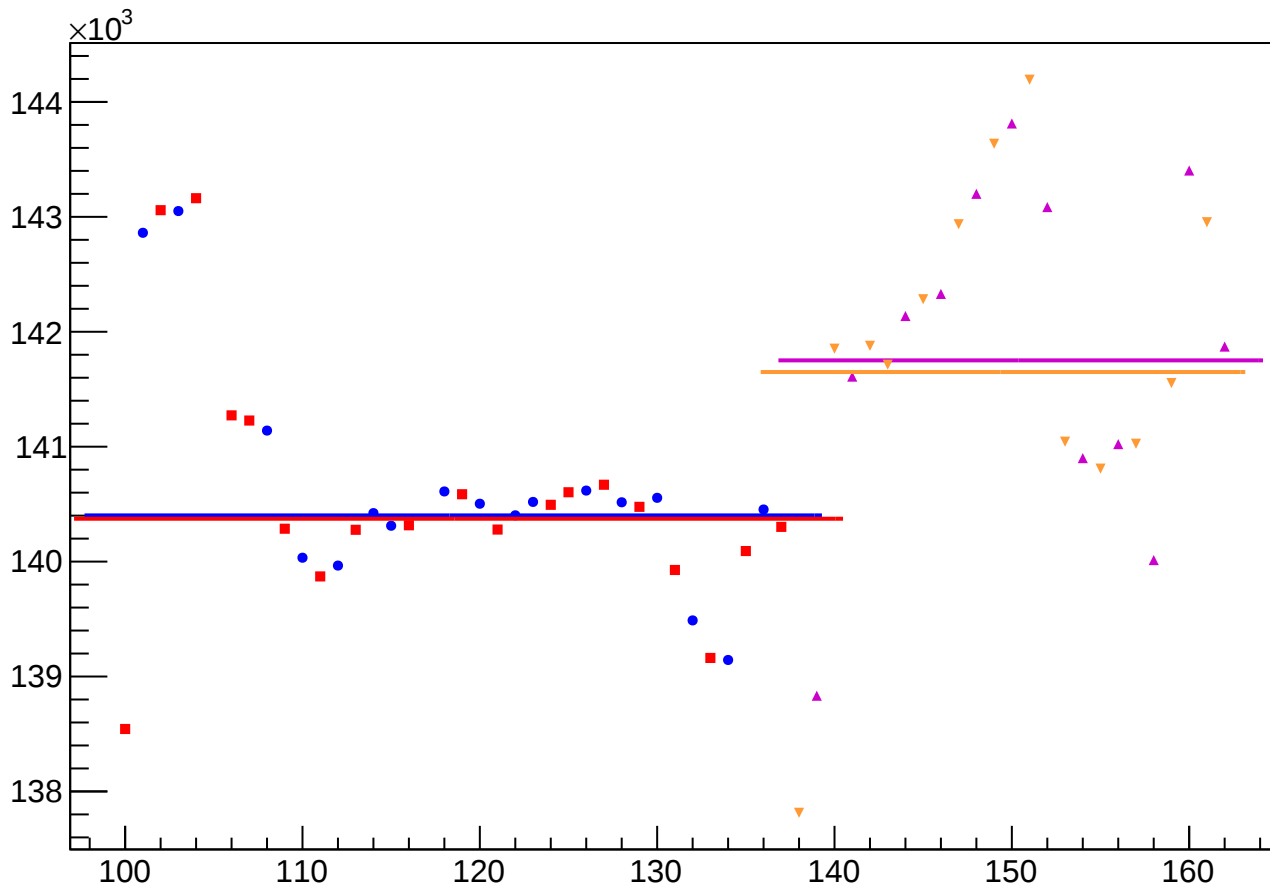
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 161.552 $\pm$ 0.029 χ^2 /NDF:1606833.3/28

Out: 156.778 $\pm$ 0.028 χ^2 /NDF:1944253.3/31

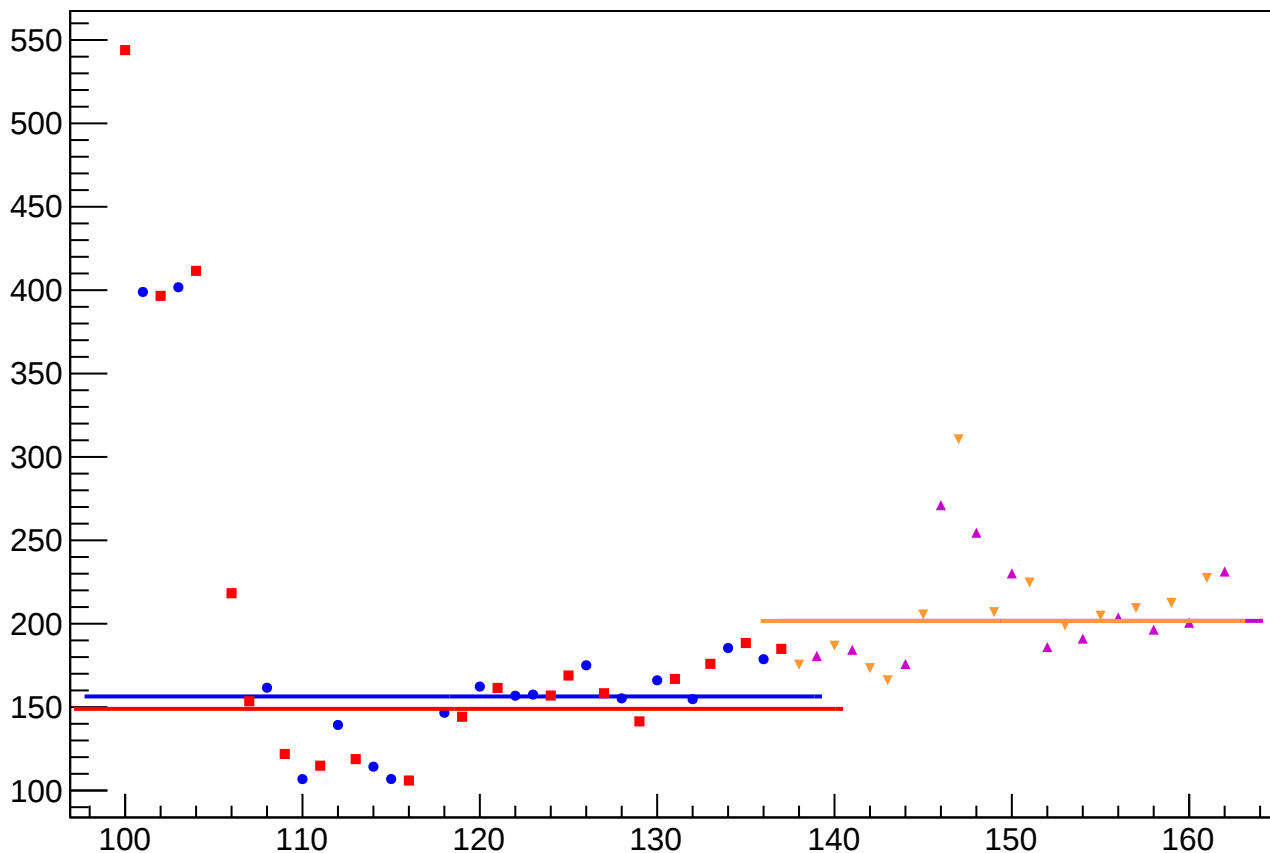
All: 159.076 $\pm$ 0.020 χ^2 /NDF: 3564839.6/60

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064	χ^2 /NDF: 88071774.7/16	Left: 141700.460 $\pm$ 0.047	χ^2 /NDF: 1047638679.3/2
Left Out: 141649.713 $\pm$ 0.066	χ^2 /NDF: 583816440.8/12	Right: 140386.544 $\pm$ 0.044	χ^2 /NDF: 188034057.1/3
Right Out: 140373.163 $\pm$ 0.060	χ^2 /NDF: 99854533.3/18	In: 141059.981 $\pm$ 0.046	χ^2 /NDF: 765090332.7/28
Left In: 141751.090 $\pm$ 0.066	χ^2 /NDF: 462642106.1/11	Out: 140948.975 $\pm$ 0.044	χ^2 /NDF: 888871039.7/31
		All: 141002.376 $\pm$ 0.032	χ^2 /NDF: 165697597

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2/NDF : 1154804.2/16

Left Out: 201.648 $\pm$ 0.047 χ^2/NDF :358033.4/12

Right Out: 148.949 $\pm$ 0.042 χ^2/NDF : 1307651.5/18

Left In: 201.724 $\pm$ 0.047 χ^2/NDF :308255.2/11

Left: 201.686 $\pm$ 0.033 χ^2/NDF : 666289.9/24

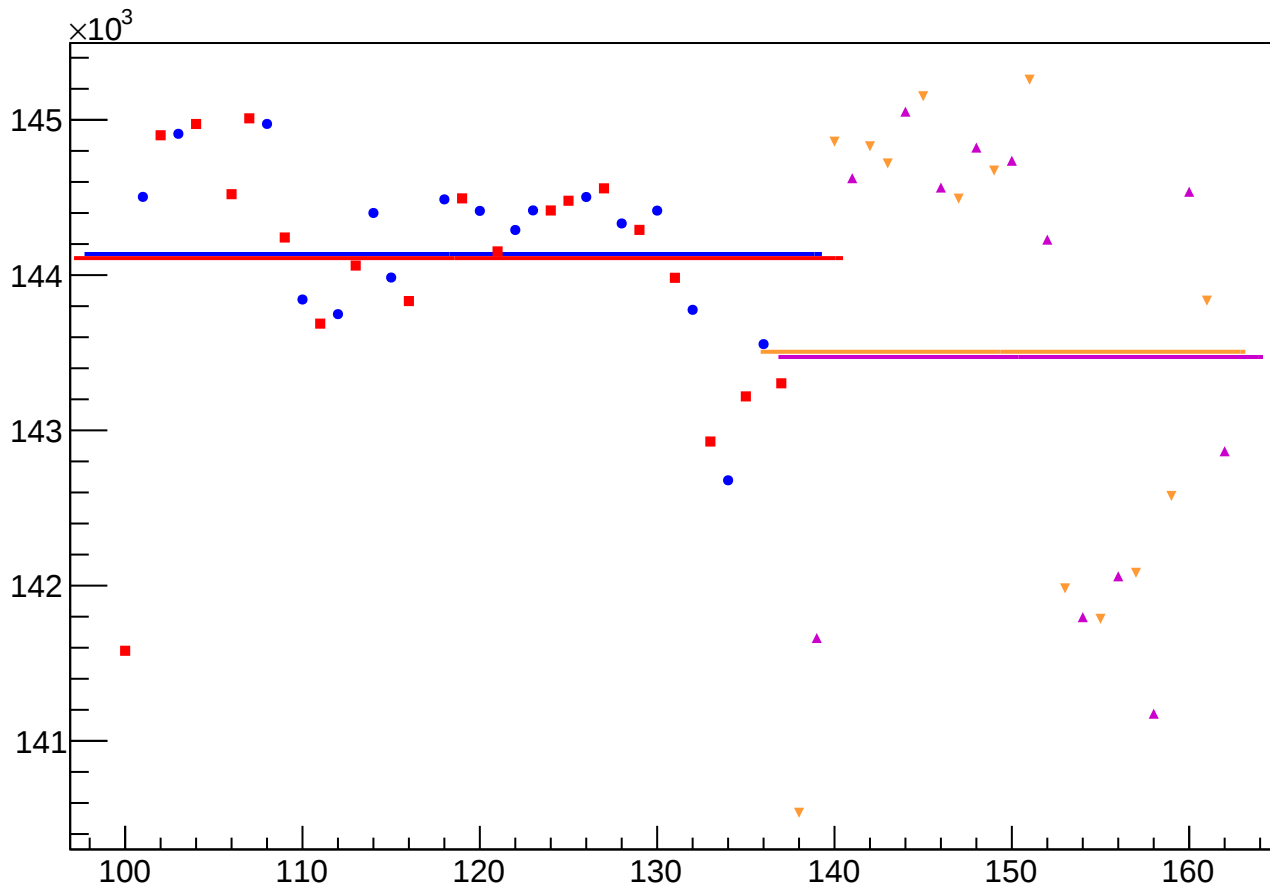
Right: 152.402 $\pm$ 0.031 χ^2/NDF : 2476807.4/35

In: 178.502 $\pm$ 0.033 χ^2/NDF :1947134.2/28

Out: 172.720 $\pm$ 0.031 χ^2/NDF :2365087.4/31

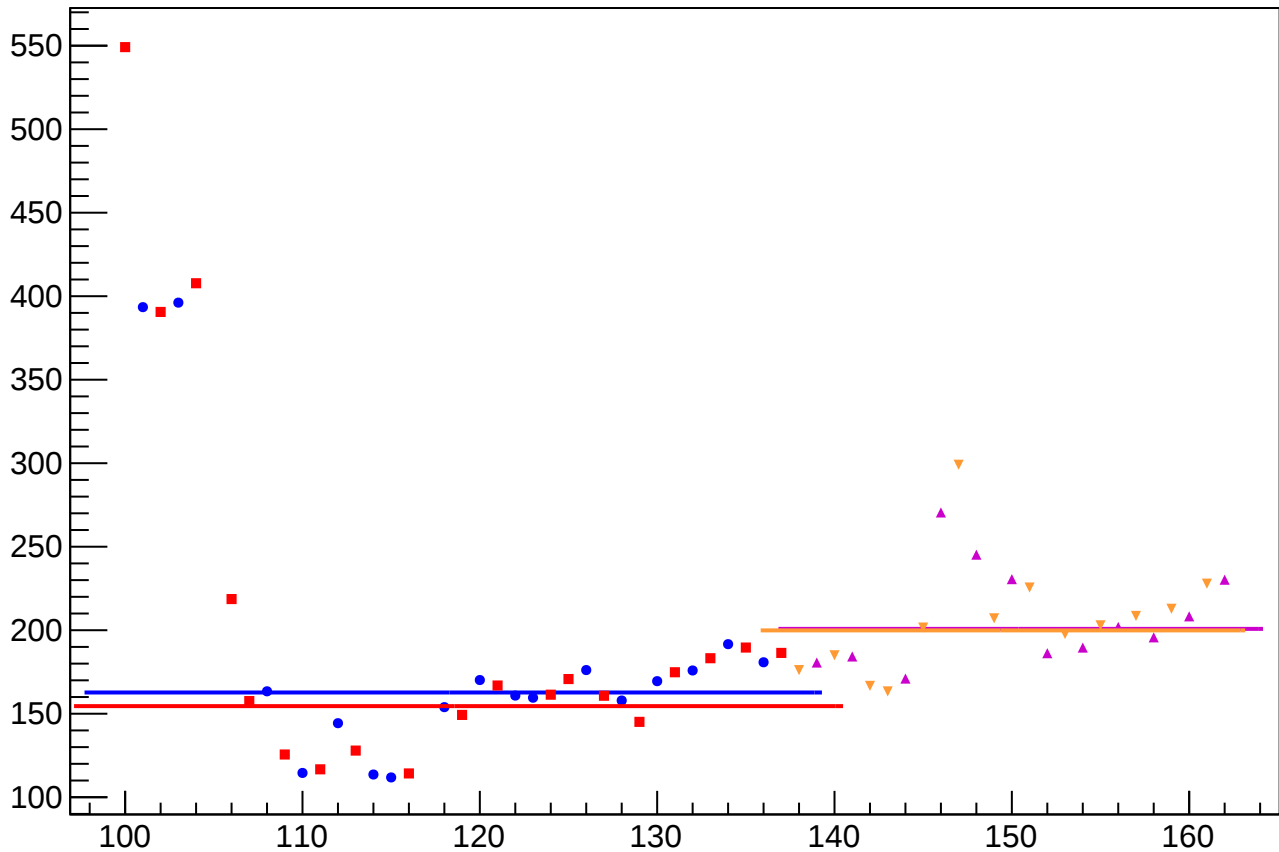
All: 175.502 $\pm$ 0.023 χ^2/NDF : 4328580.4/60

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067	χ^2 /NDF: 47069480.3/16	Left: 143489.505 $\pm$ 0.046	χ^2 /NDF: 1072142544.3/2
Left Out: 143506.342 $\pm$ 0.065	χ^2 /NDF: 585370511.3/12	Right: 144121.752 $\pm$ 0.045	χ^2 /NDF: 112414138.5/3
Right Out: 144109.419 $\pm$ 0.062	χ^2 /NDF: 65258627.2/18	In: 143798.827 $\pm$ 0.047	χ^2 /NDF: 583913793.4/28
Left In: 143472.528 $\pm$ 0.066	χ^2 /NDF: 486638932.8/11	Out: 143824.611 $\pm$ 0.045	χ^2 /NDF: 695502680.4/31
		All: 143812.246 $\pm$ 0.032	χ^2 /NDF: 127957430

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 199.900 $\pm$ 0.046 χ^2 /NDF: 359134.8/12

Right Out: 154.547 $\pm$ 0.044 χ^2 /NDF: 1217495.9/18

Left In: 200.808 $\pm$ 0.046 χ^2 /NDF: 308209.0/11

Left: 200.352 $\pm$ 0.033 χ^2 /NDF: 667536.1/24

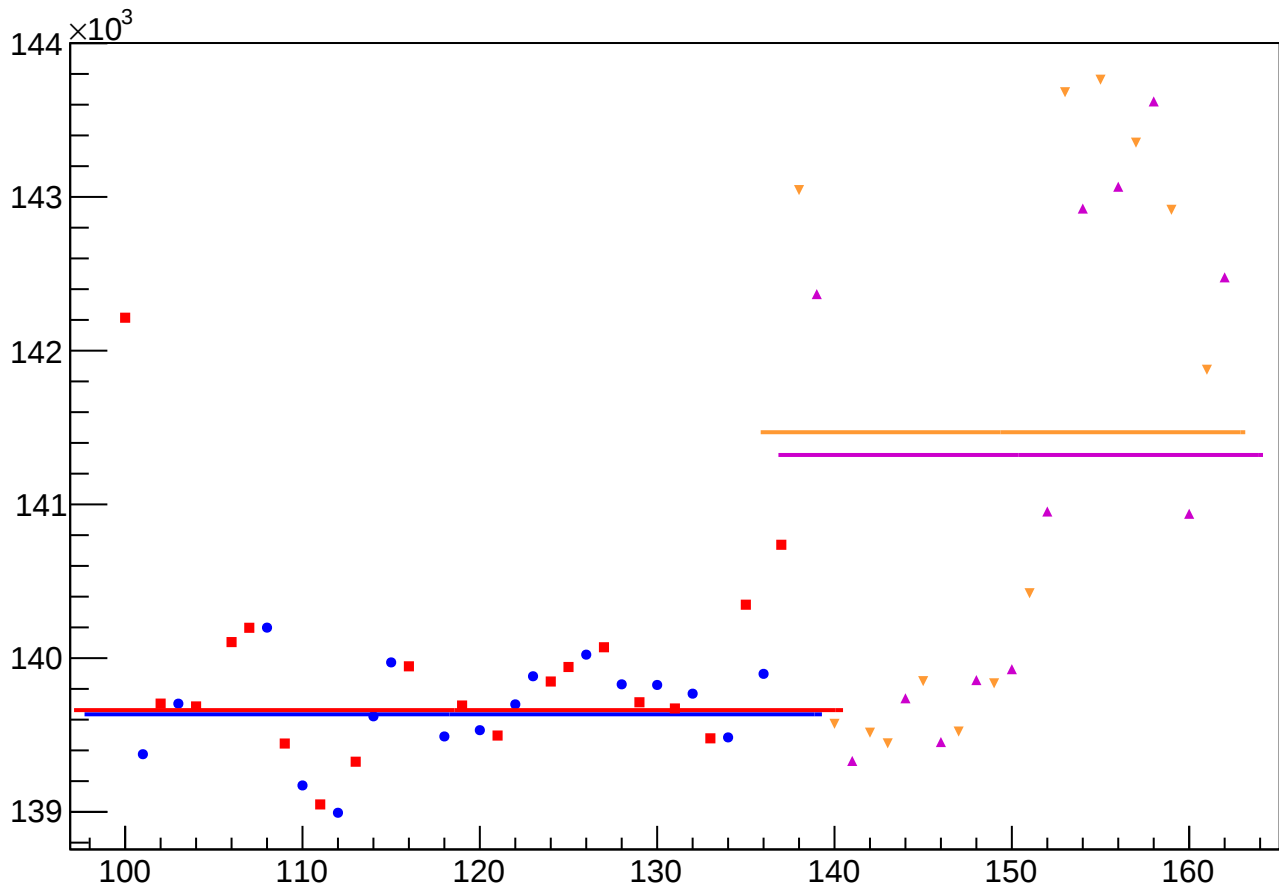
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 182.077 $\pm$ 0.033 χ^2 /NDF: 1705595.1/28

Out: 175.965 $\pm$ 0.032 χ^2 /NDF: 2084185.4/31

All: 178.896 $\pm$ 0.023 χ^2 /NDF: 3807515.8/60

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068

χ^2 /NDF: 24844912.0/16

Left: 141394.901 $\pm$ 0.048

χ^2 /NDF: 1141540535.9/2

Left Out: 141469.507 $\pm$ 0.069

χ^2 /NDF: 646682243.9/12

Right: 139649.322 $\pm$ 0.046

χ^2 /NDF: 63304699.0/35

Right Out: 139661.970 $\pm$ 0.063

χ^2 /NDF: 38372985.0/18

In: 140472.093 $\pm$ 0.048

χ^2 /NDF: 824889450.7/28

Out: 140485.965 $\pm$ 0.046

χ^2 /NDF: 1059881122.9/3

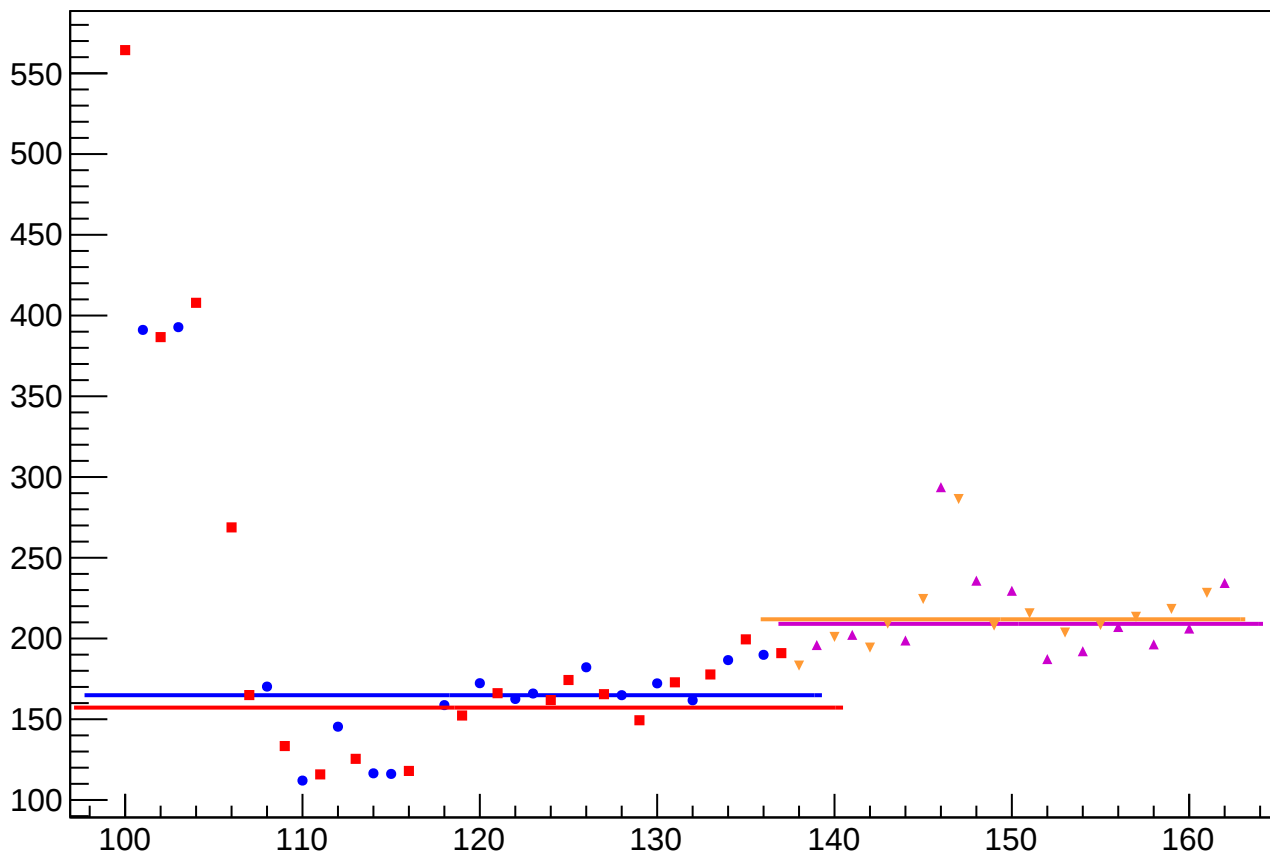
Left In: 141321.599 $\pm$ 0.068

χ^2 /NDF: 492531724.1/11

All: 140479.263 $\pm$ 0.033

χ^2 /NDF: 188481357

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 211.901 $\pm$ 0.049 χ^2 /NDF:169911.5/12

Right Out: 157.207 $\pm$ 0.045 χ^2 /NDF: 1245030.9/18

Left In: 209.071 $\pm$ 0.048 χ^2 /NDF:234932.0/11

Left: 210.474 $\pm$ 0.034 χ^2 /NDF: 406546.2/24

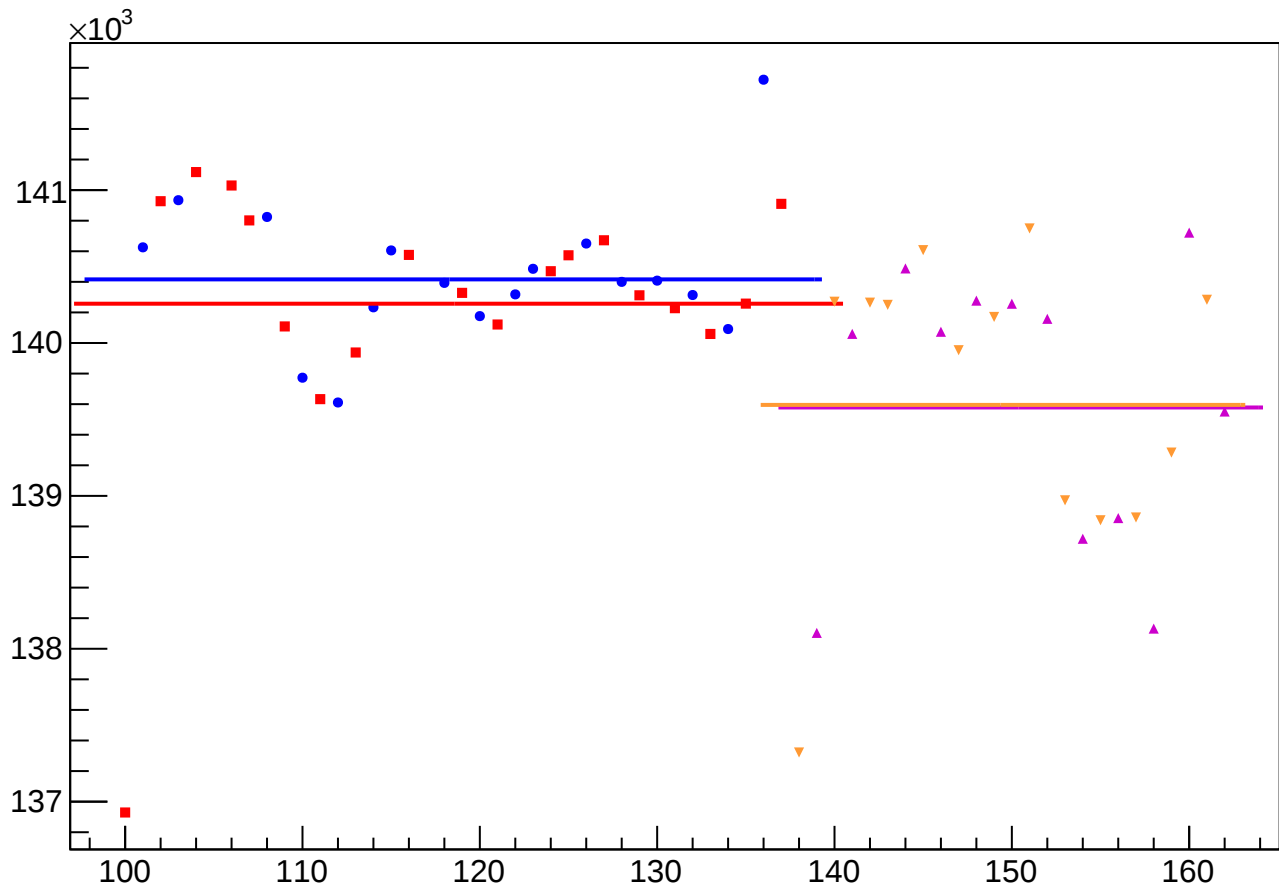
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 186.819 $\pm$ 0.034 χ^2 /NDF:1723194.2/28

Out: 182.140 $\pm$ 0.033 χ^2 /NDF:2101305.2/31

All: 184.401 $\pm$ 0.024 χ^2 /NDF: 3834283.1/60

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068

χ^2/NDF : 69975821.3/16

Left Out: 139595.084 $\pm$ 0.064

χ^2/NDF : 242196938.6/12

Right Out: 140256.992 $\pm$ 0.063

χ^2/NDF : 38063371.4/18

Left In: 139578.183 $\pm$ 0.064

χ^2/NDF : 202528446.5/11

Left: 139586.675 $\pm$ 0.045

χ^2/NDF : 444759960.5/24

Right: 140330.188 $\pm$ 0.046

χ^2/NDF : 110959487.0/3

In: 139972.120 $\pm$ 0.047

χ^2/NDF : 352023934.3/28

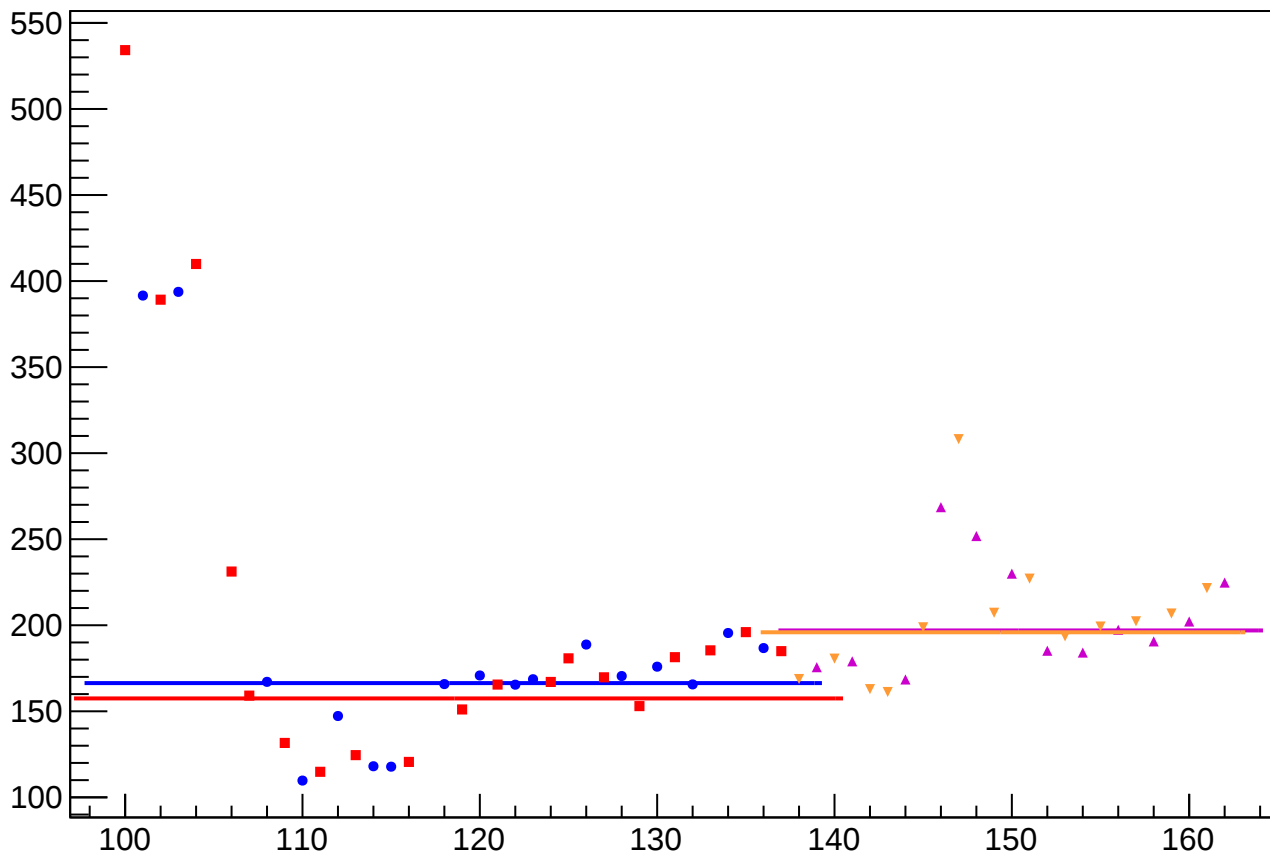
Out: 139931.078 $\pm$ 0.045

χ^2/NDF : 334365955.0/31

All: 139950.747 $\pm$ 0.032

χ^2/NDF : 68678874

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 195.915 $\pm$ 0.045 χ^2 /NDF: 410386.6/12

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 196.983 $\pm$ 0.046 χ^2 /NDF: 346177.3/11

Left: 196.447 $\pm$ 0.032 χ^2 /NDF: 756840.0/24

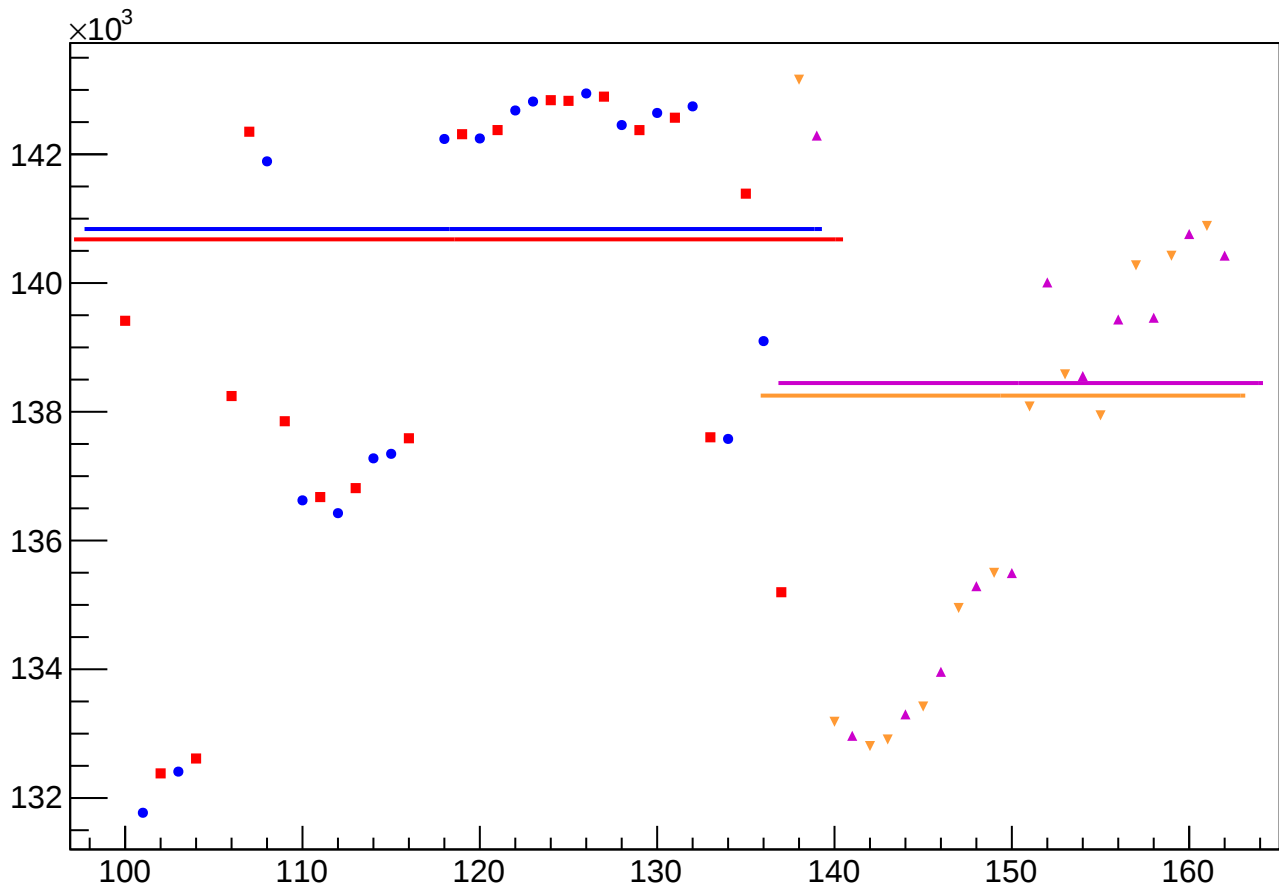
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 182.598 $\pm$ 0.033 χ^2 /NDF: 1639198.1/28

Out: 176.402 $\pm$ 0.032 χ^2 /NDF: 2005235.7/31

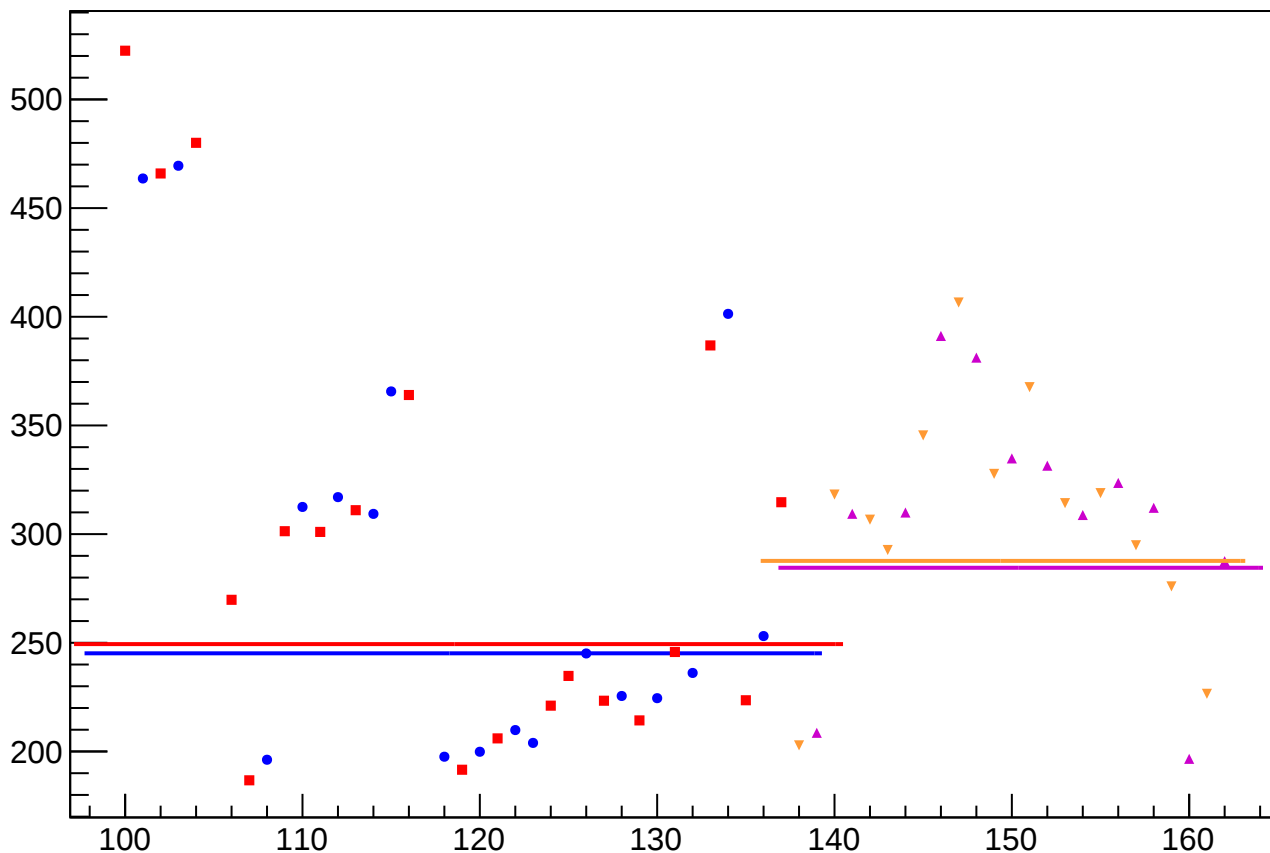
All: 179.372 $\pm$ 0.023 χ^2 /NDF: 3662613.9/60

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138349.445 $\pm$ 0.067	χ^2/NDF : 2468986520.1/16
Left Out: 138251.398 $\pm$ 0.096	χ^2/NDF : 1370132296.1/12	Right: 140758.088 $\pm$ 0.070	χ^2/NDF : 1664679717.2/12
Right Out: 140678.513 $\pm$ 0.099	χ^2/NDF : 840695274.4/18	In: 139581.149 $\pm$ 0.069	χ^2/NDF : 2220381563.6/28
Left In: 138446.348 $\pm$ 0.095	χ^2/NDF : 1096760513.1/11	Out: 139420.675 $\pm$ 0.069	χ^2/NDF : 2521686639.8/30
		All: 139500.806 $\pm$ 0.049	χ^2/NDF : 474478608.0/100

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2/NDF : 869491.6/16

Left Out: 287.682 $\pm$ 0.068 χ^2/NDF : 677716.1/12

Right Out: 249.397 $\pm$ 0.070 χ^2/NDF : 1009731.2/18

Left In: 284.517 $\pm$ 0.067 χ^2/NDF : 835273.0/11

Left: 286.090 $\pm$ 0.048 χ^2/NDF : 1514092.9/24

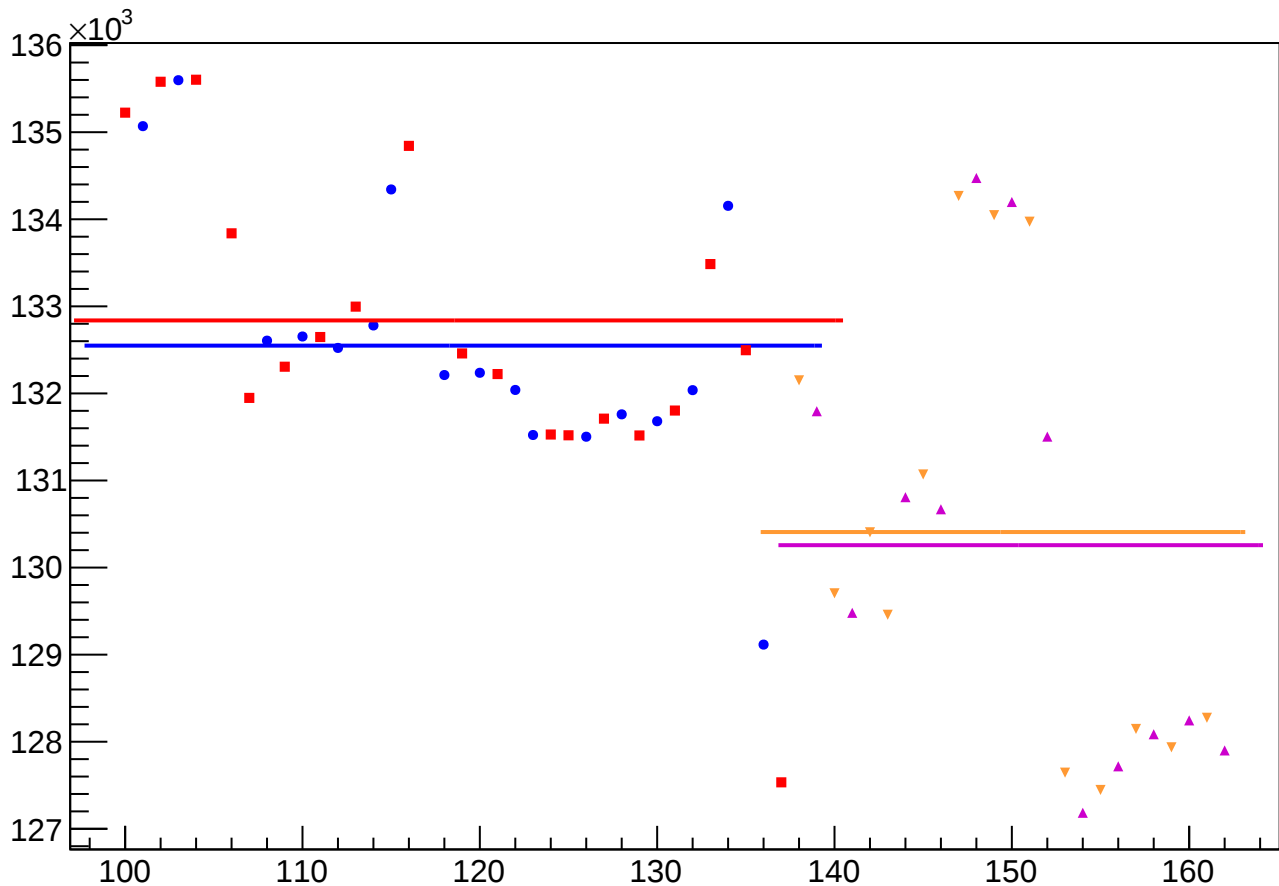
Right: 247.297 $\pm$ 0.050 χ^2/NDF : 1881034.9/35

In: 265.851 $\pm$ 0.049 χ^2/NDF : 1867606.3/28

Out: 269.238 $\pm$ 0.049 χ^2/NDF : 1842142.0/31

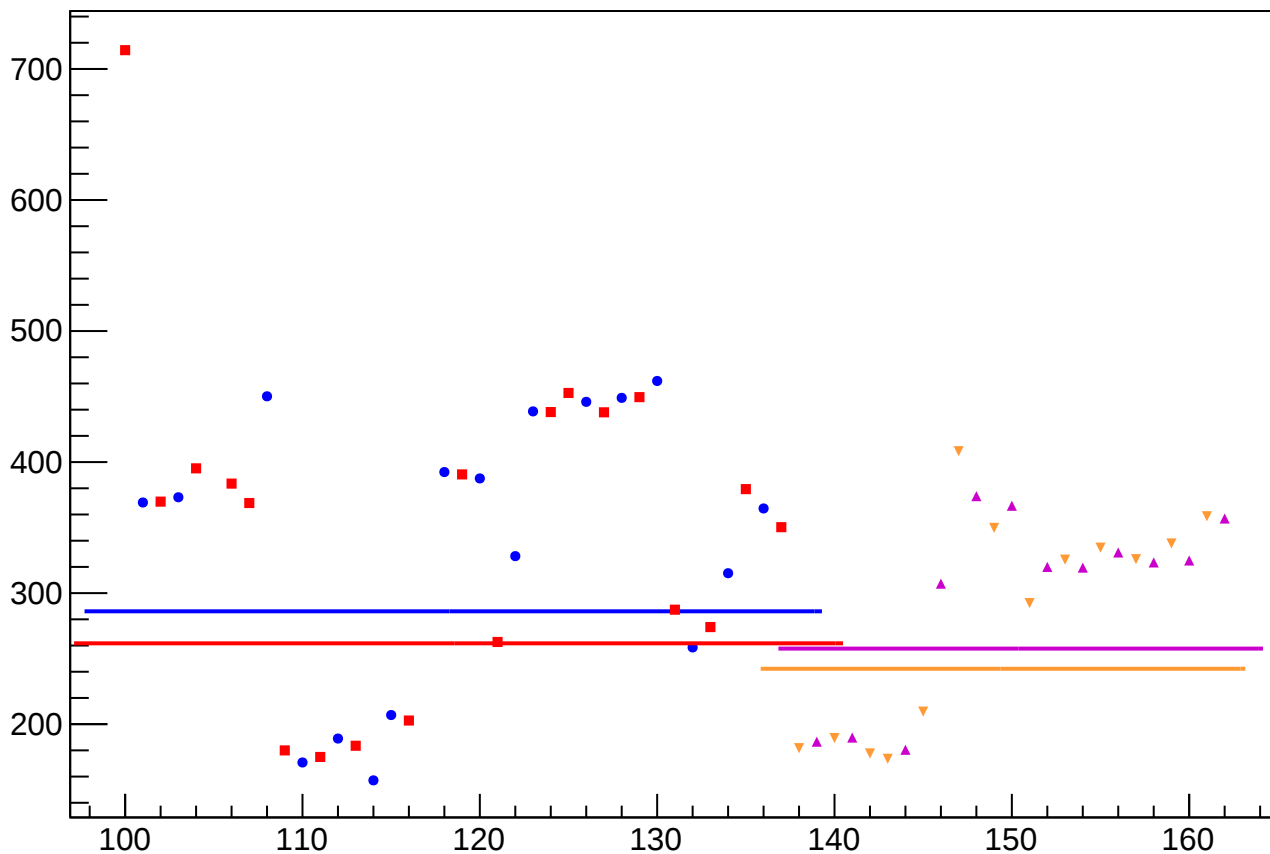
All: 267.547 $\pm$ 0.034 χ^2/NDF : 3712169.8/60

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119	χ^2 /NDF: 161115079.9/16	Left: 130336.863 $\pm$ 0.060	χ^2 /NDF: 1100175409.8/2
Left Out: 130408.183 $\pm$ 0.082	χ^2 /NDF: 594243715.4/12	Right: 132709.226 $\pm$ 0.080	χ^2 /NDF: 313982981.1/3
Right Out: 132838.294 $\pm$ 0.107	χ^2 /NDF: 149611447.6/18	In: 131054.618 $\pm$ 0.070	χ^2 /NDF: 905784257.1/28
Left In: 130257.174 $\pm$ 0.087	χ^2 /NDF: 504349247.9/11	Out: 131313.125 $\pm$ 0.065	χ^2 /NDF: 1066974400.5/3
		All: 131193.491 $\pm$ 0.048	χ^2 /NDF: 197999890

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 242.288+/-0.058 χ^2/NDF :1683192.6/12

Right Out: 261.686+/-0.076 χ^2/NDF : 1623174.1/18

Left In: 257.663+/-0.062 χ^2/NDF :1503947.8/11

Left: 249.549+/-0.042 χ^2/NDF : 3219950.9/24

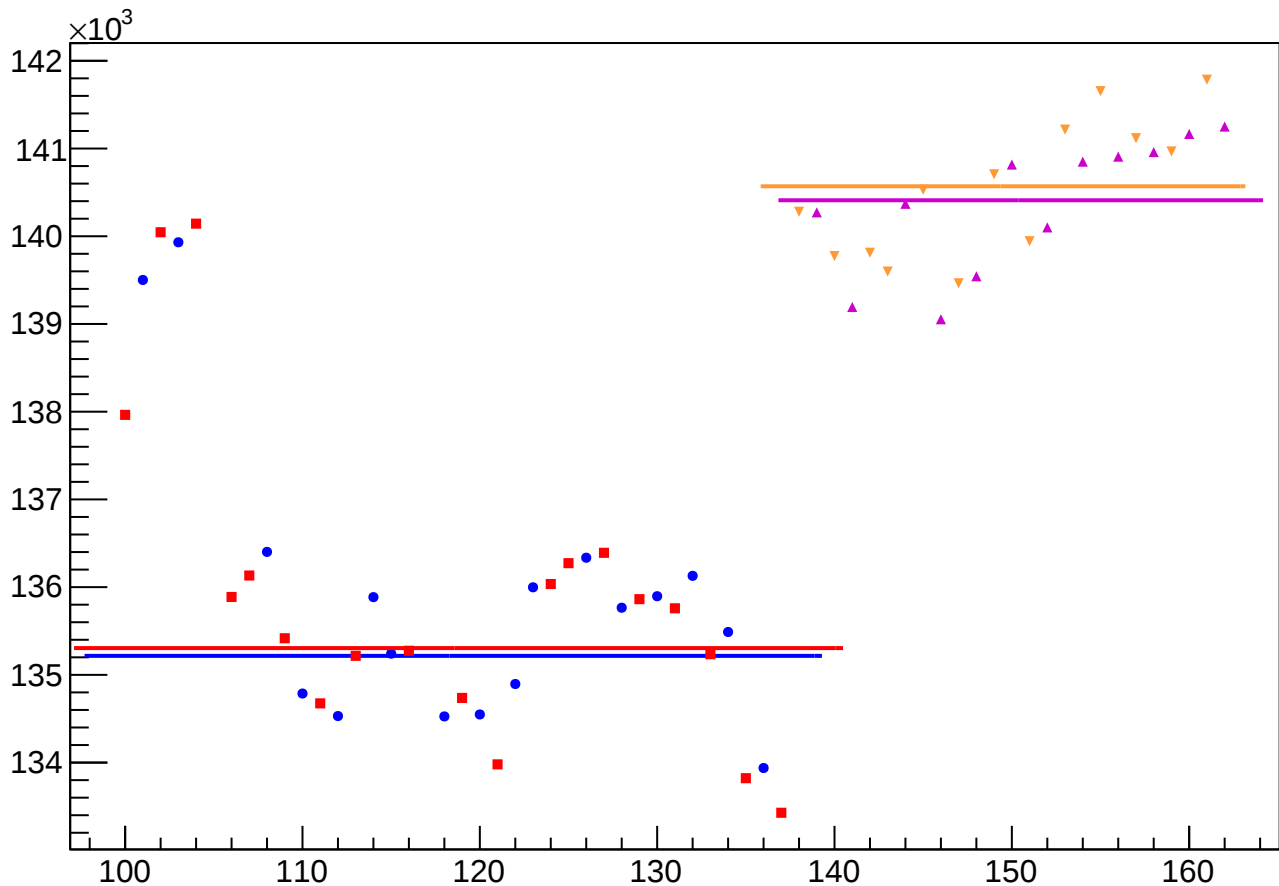
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 267.566+/-0.050 χ^2/NDF :3103334.4/28

Out: 249.511+/-0.046 χ^2/NDF :3347546.1/31

All: 257.867+/-0.034 χ^2/NDF : 6521513.6/60

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054

χ^2 /NDF: 371347707.3/16

Left: 140492.498 $\pm$ 0.043

χ^2 /NDF: 279051902.6/24

Left Out: 140569.511 $\pm$ 0.060

χ^2 /NDF: 151618371.3/12

Right: 135263.557 $\pm$ 0.037

χ^2 /NDF: 730392205.8/3

Right Out: 135305.135 $\pm$ 0.051

χ^2 /NDF: 357636841.6/18

In: 137476.610 $\pm$ 0.041

χ^2 /NDF: 4468147817.5/28

Out: 137522.838 $\pm$ 0.039

χ^2 /NDF: 4973048652.4/3

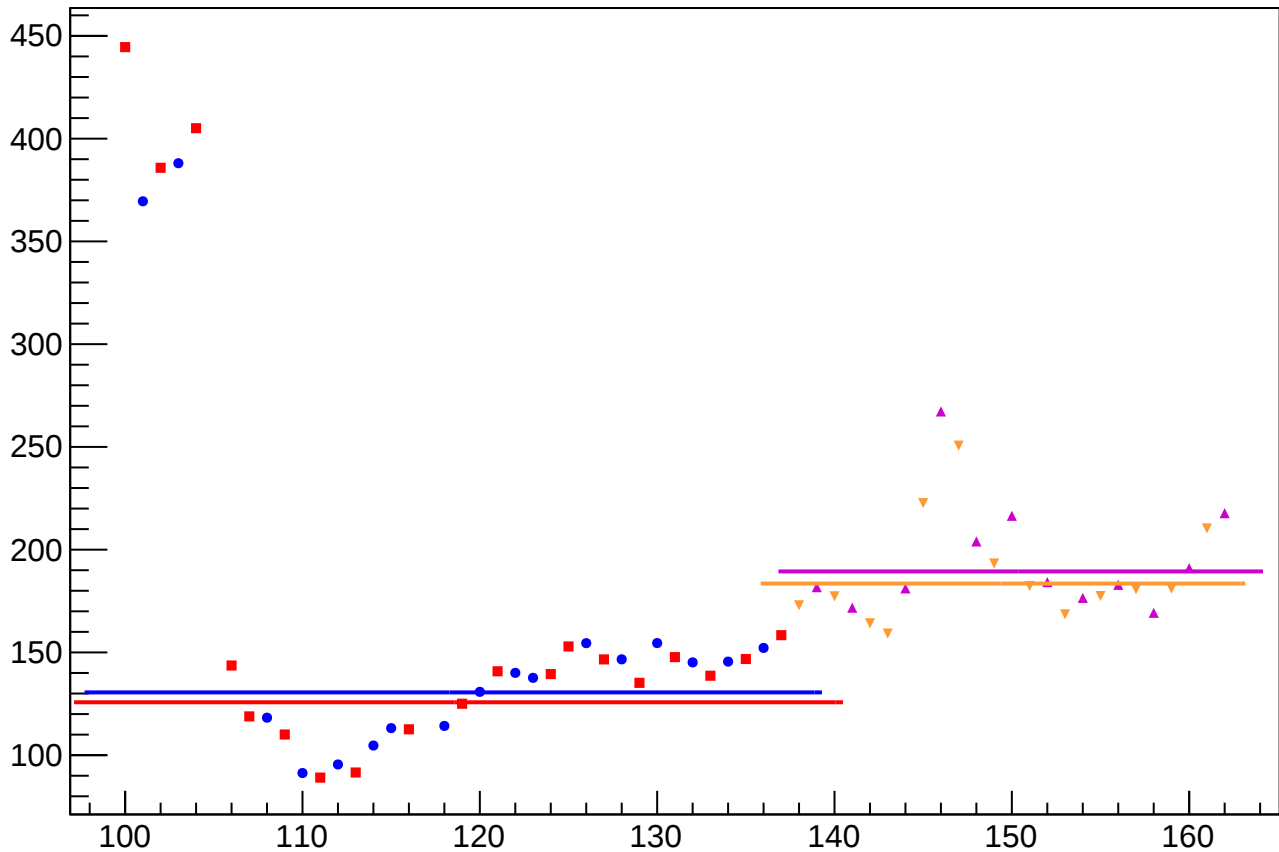
Left In: 140410.295 $\pm$ 0.062

χ^2 /NDF: 124020959.2/11

All: 137500.852 $\pm$ 0.028

χ^2 /NDF: 944186795

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 183.513 $\pm$ 0.042 χ^2 /NDF: 245297.6/12

Right Out: 125.746 $\pm$ 0.036 χ^2 /NDF: 1440002.5/18

Left In: 189.413 $\pm$ 0.044 χ^2 /NDF: 244630.1/11

Left: 186.367 $\pm$ 0.030 χ^2 /NDF: 499300.3/24

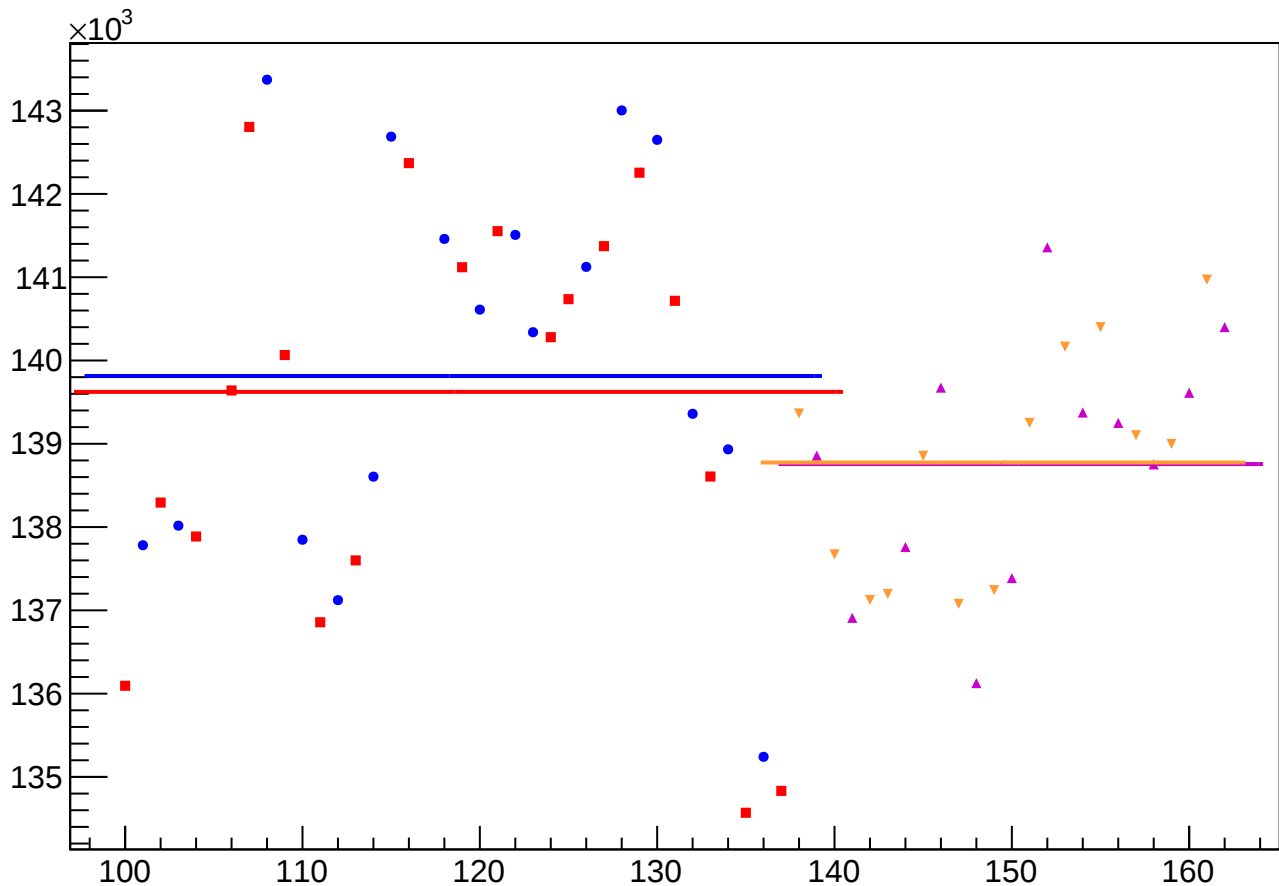
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 156.165 $\pm$ 0.029 χ^2 /NDF: 2638282.6/28

Out: 150.081 $\pm$ 0.028 χ^2 /NDF: 2760295.0/31

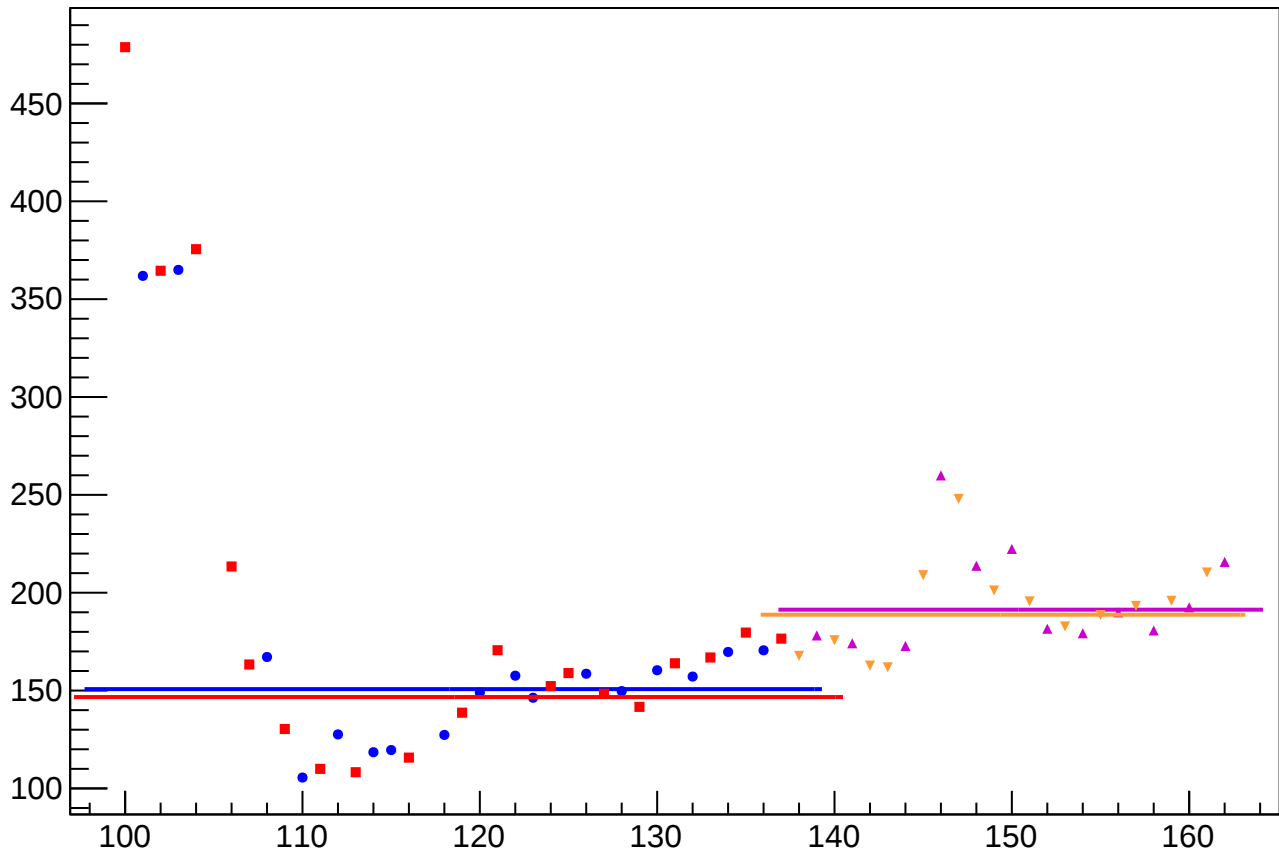
All: 152.975 $\pm$ 0.020 χ^2 /NDF: 5421838.2/60

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062	χ^2 /NDF: 1689865533.6/16	Left: 138766.039 $\pm$ 0.044	χ^2 /NDF: 935989199.4/24
Left Out: 138775.294 $\pm$ 0.062	χ^2 /NDF: 418366498.4/12	Right: 139713.961 $\pm$ 0.043	χ^2 /NDF: 3200544274.5/12
Right Out: 139623.387 $\pm$ 0.059	χ^2 /NDF: 1505731109.1/18	In: 139290.952 $\pm$ 0.044	χ^2 /NDF: 2351553949.1/28
Left In: 138756.528 $\pm$ 0.063	χ^2 /NDF: 517577173.3/11	Out: 139218.616 $\pm$ 0.043	χ^2 /NDF: 2022649060.8/3
		All: 139253.653 $\pm$ 0.031	χ^2 /NDF: 437559491

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2/NDF : 1050071.6/16

Left Out: 188.766 $\pm$ 0.044 χ^2/NDF :217256.4/12

Right Out: 146.686 $\pm$ 0.042 χ^2/NDF : 1203106.6/18

Left In: 191.331 $\pm$ 0.044 χ^2/NDF :236481.0/11

Left: 190.031 $\pm$ 0.031 χ^2/NDF : 455438.7/24

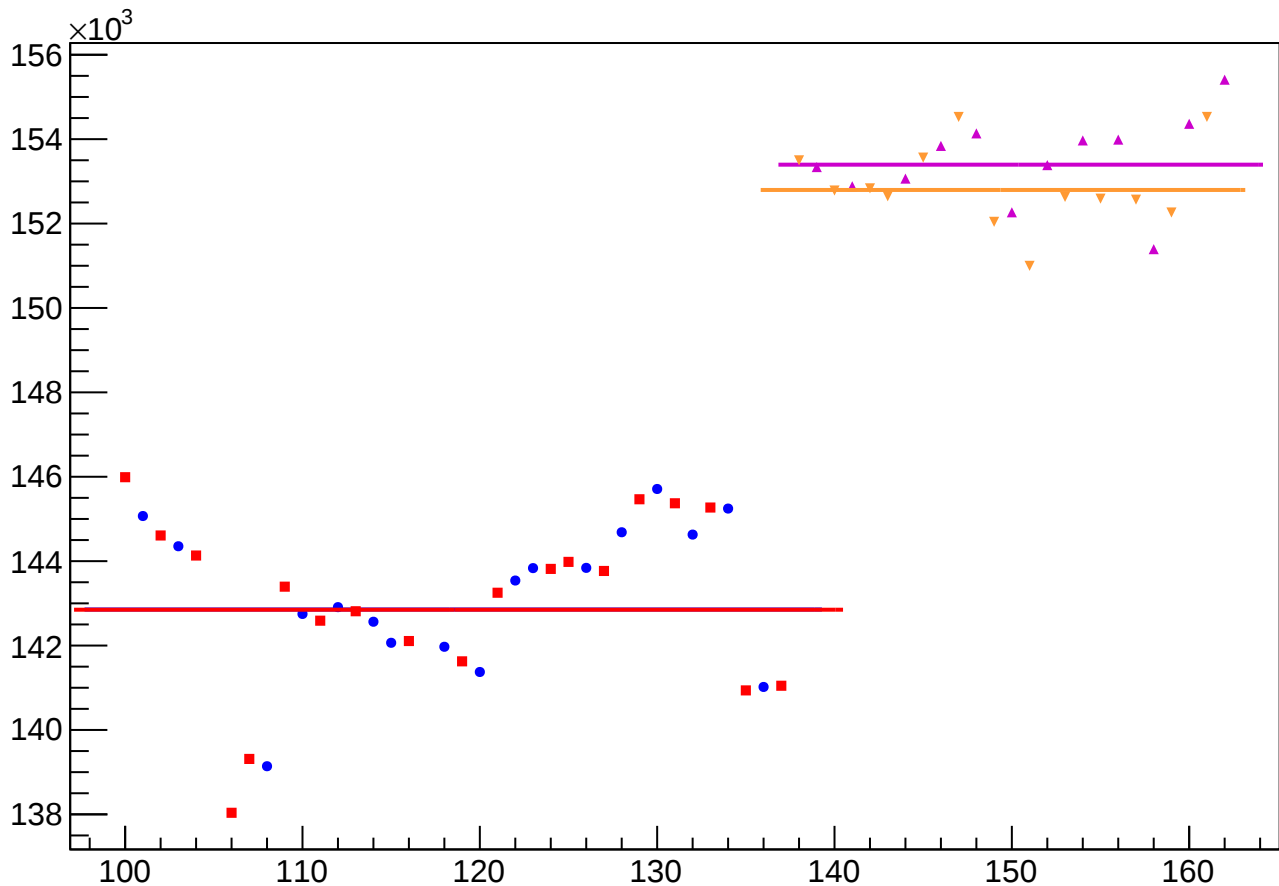
Right: 148.612 $\pm$ 0.030 χ^2/NDF : 2257655.3/35

In: 170.807 $\pm$ 0.031 χ^2/NDF :1711646.6/28

Out: 166.770 $\pm$ 0.030 χ^2/NDF :1905617.4/31

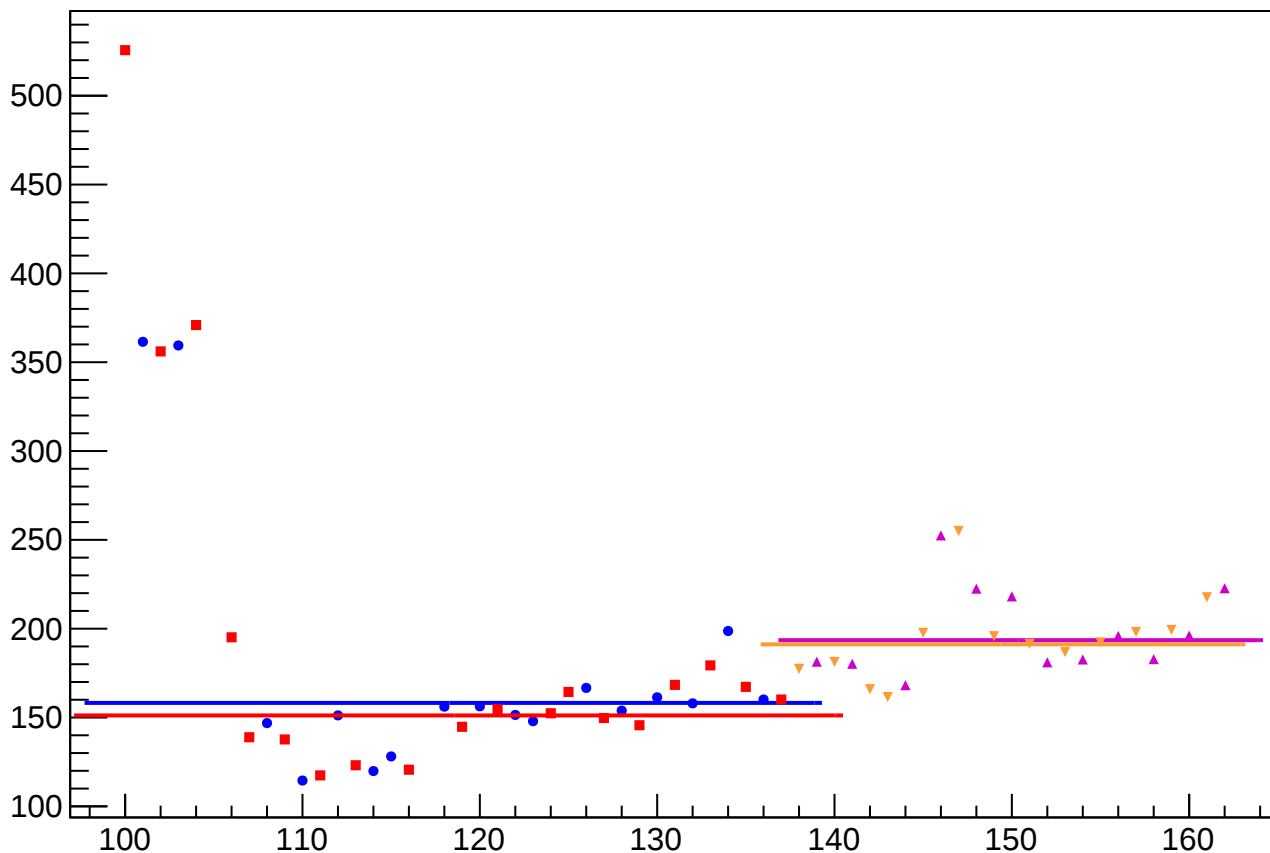
All: 168.725 $\pm$ 0.022 χ^2/NDF : 3625937.8/60

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153092.043 $\pm$ 0.044	χ^2 /NDF: 478608272.8/24
Left Out: 152796.254 $\pm$ 0.062	χ^2 /NDF: 195241989.1/12	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/24
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 148243.695 $\pm$ 0.045	χ^2 /NDF: 14565420412.6/24
Left In: 153395.507 $\pm$ 0.063	χ^2 /NDF: 237867933.4/11	Out: 147659.218 $\pm$ 0.043	χ^2 /NDF: 14161363510.2/24
		All: 147939.575 $\pm$ 0.031	χ^2 /NDF: 288137676.0/24

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 191.181+/-0.044 χ^2/NDF :204041.1/12

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 193.534+/-0.045 χ^2/NDF :232675.7/11

Left: 192.342+/-0.031 χ^2/NDF : 438118.6/24

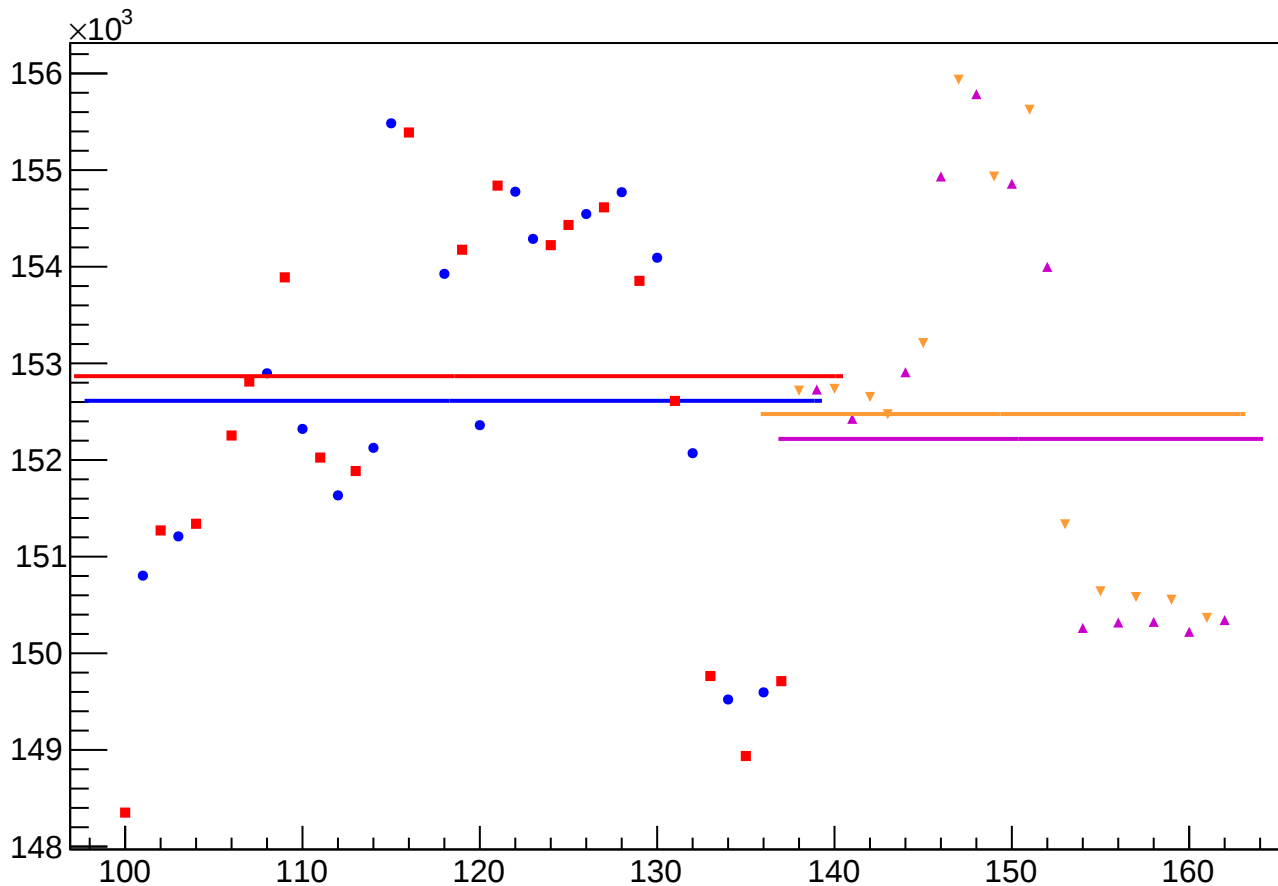
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 176.281+/-0.032 χ^2/NDF :1420941.8/28

Out: 170.520+/-0.031 χ^2/NDF :1631706.8/31

All: 173.283+/-0.022 χ^2/NDF : 3069551.1/60

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152475.537 $\pm$ 0.063 χ^2 /NDF: 779150577.4/12

Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18

Left In: 152218.292 $\pm$ 0.063 χ^2 /NDF: 885068061.0/11

Left: 152348.577 $\pm$ 0.045 χ^2 /NDF: 1672553962.6/2

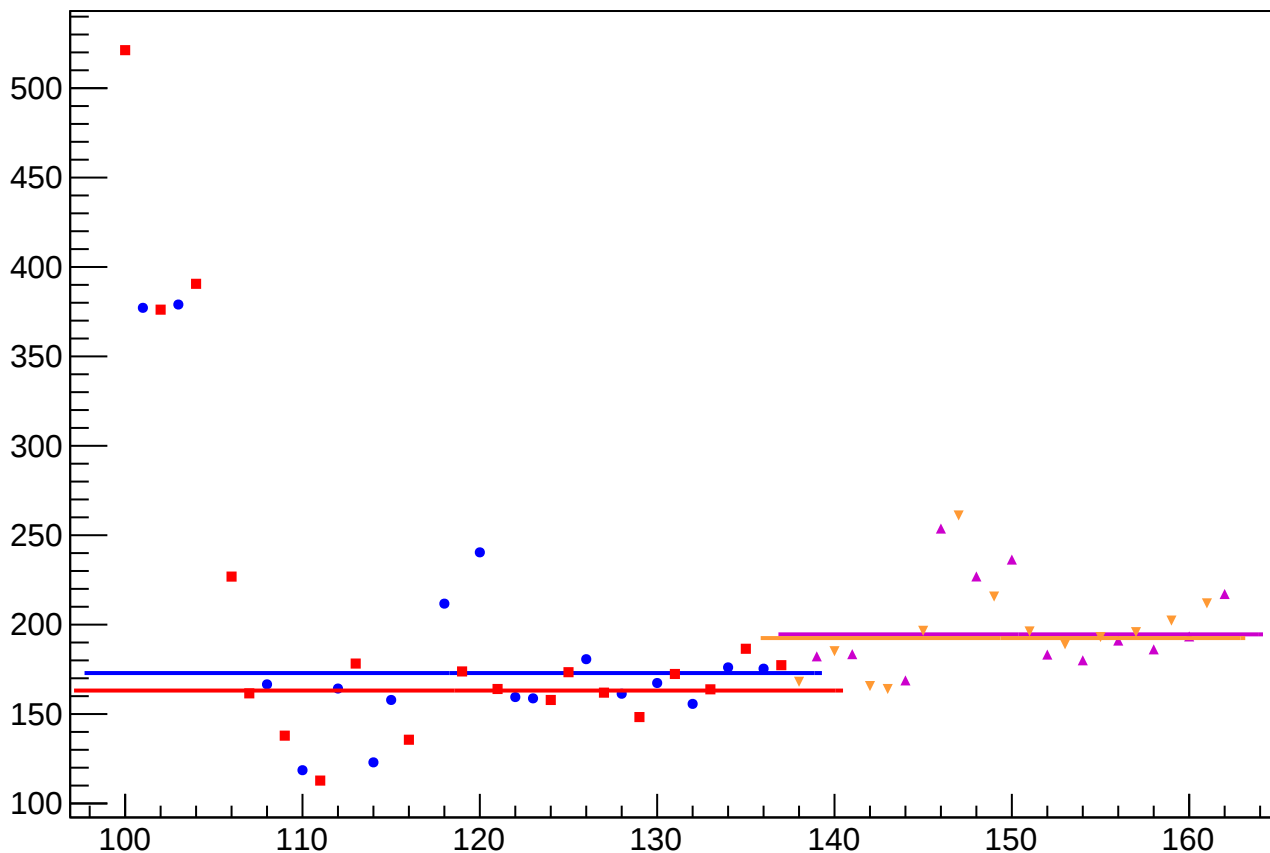
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/1

In: 152390.081 $\pm$ 0.048 χ^2 /NDF: 1523330267.7/2

Out: 152660.489 $\pm$ 0.045 χ^2 /NDF: 1516725983.3/3

All: 152531.514 $\pm$ 0.033 χ^2 /NDF: 305691133

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 192.481+/-0.044 χ^2/NDF : 238607.0/12

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 194.559+/-0.045 χ^2/NDF : 259855.5/11

Left: 193.507+/-0.031 χ^2/NDF : 499550.8/24

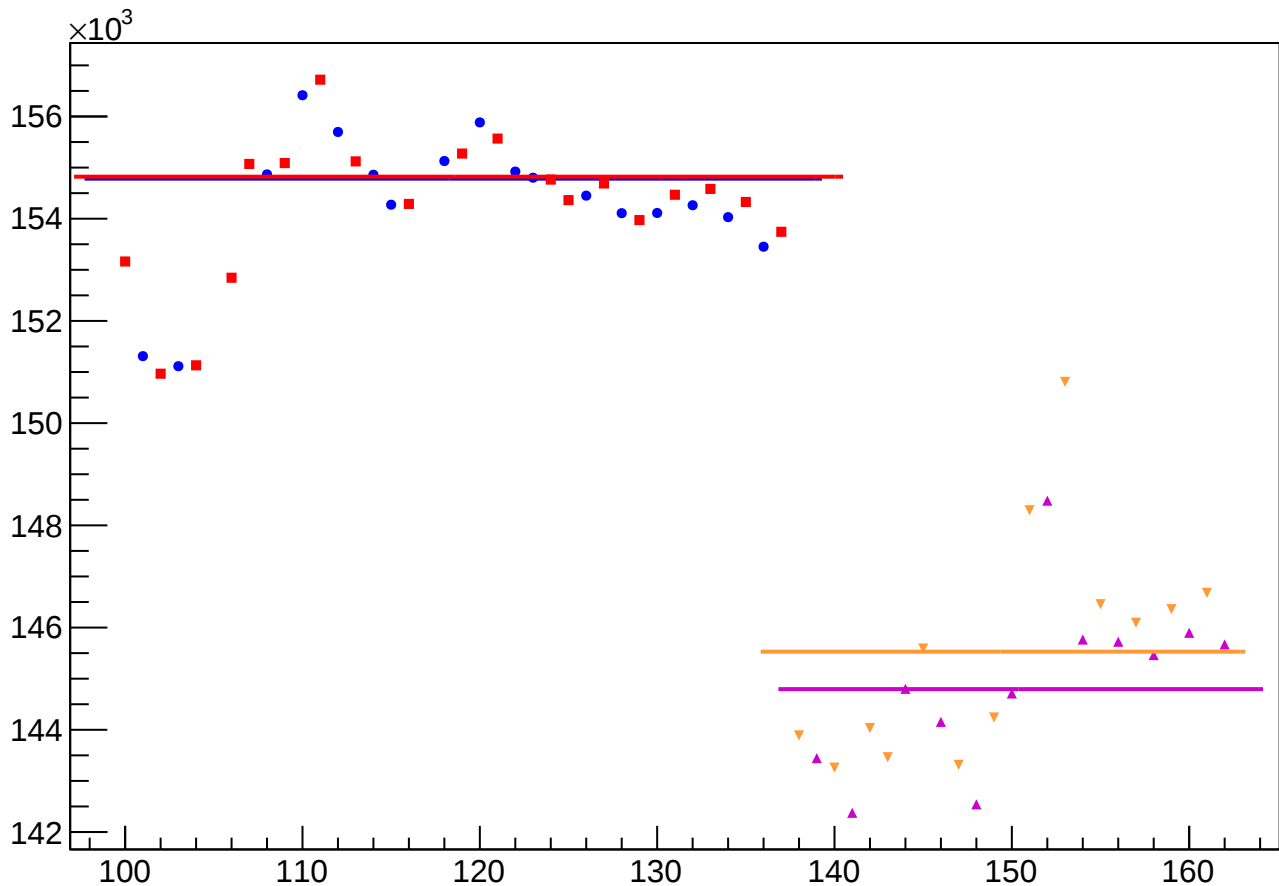
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 185.132+/-0.034 χ^2/NDF : 1303279.9/28

Out: 178.633+/-0.032 χ^2/NDF : 1479753.9/31

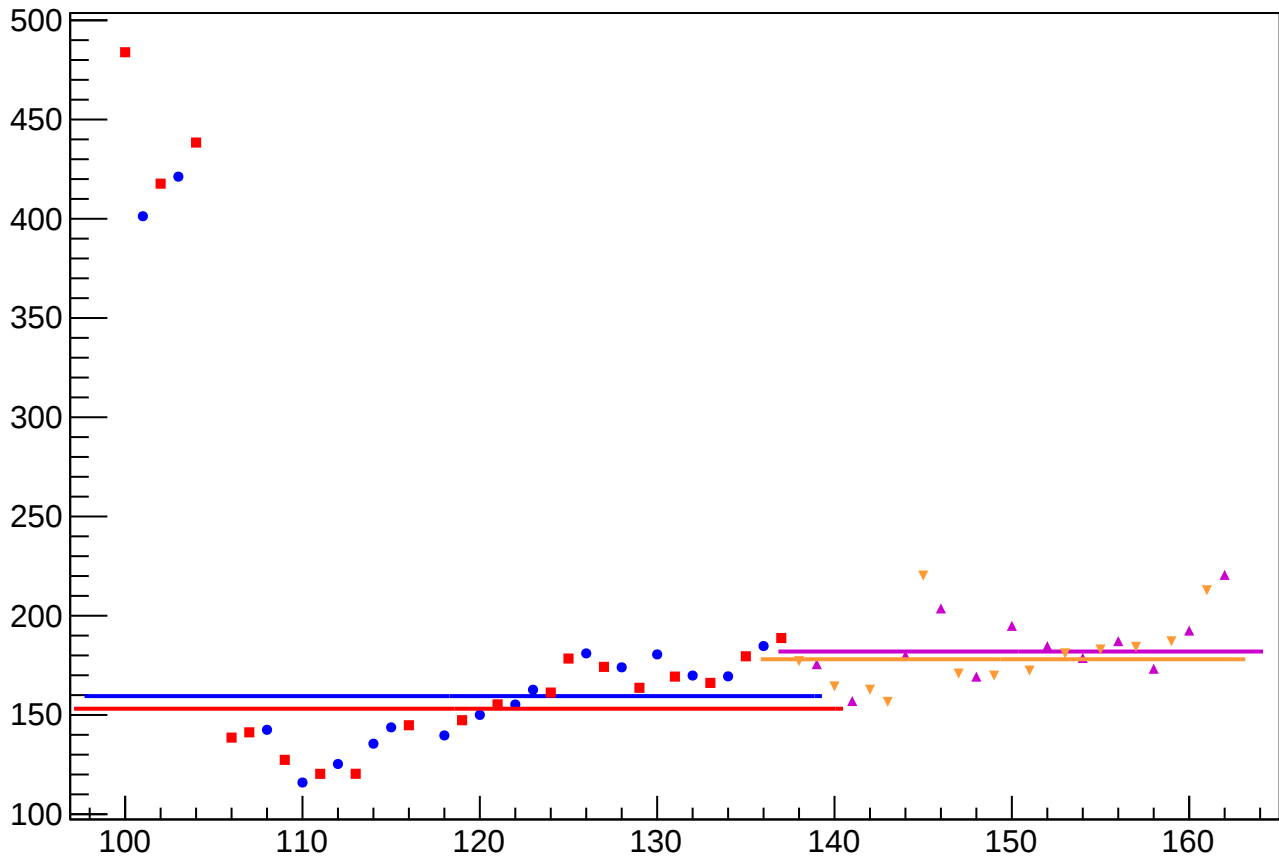
All: 181.733+/-0.023 χ^2/NDF : 2802500.9/60

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145170.470 $\pm$ 0.041	χ^2 /NDF: 2366761577.8/2
Left Out: 145528.616 $\pm$ 0.058	χ^2 /NDF: 1479657826.7/12	Right: 154804.381 $\pm$ 0.045	χ^2 /NDF: 559614489.4/3
Right Out: 154822.113 $\pm$ 0.061	χ^2 /NDF: 293850525.9/18	In: 149275.573 $\pm$ 0.044	χ^2 /NDF: 13949407282.0/2
Left In: 144795.986 $\pm$ 0.059	χ^2 /NDF: 808150011.3/11	Out: 149921.563 $\pm$ 0.042	χ^2 /NDF: 14058181639.6
		All: 149613.007 $\pm$ 0.030	χ^2 /NDF: 281213312

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 +/- 0.046 χ^2/NDF : 1131844.5/16

Left Out: 178.072 +/- 0.041 χ^2/NDF : 156348.7/12

Right Out: 153.153 +/- 0.043 χ^2/NDF : 1173739.7/18

Left In: 181.965 +/- 0.042 χ^2/NDF : 136550.9/11

Left: 179.975 +/- 0.029 χ^2/NDF : 297358.0/24

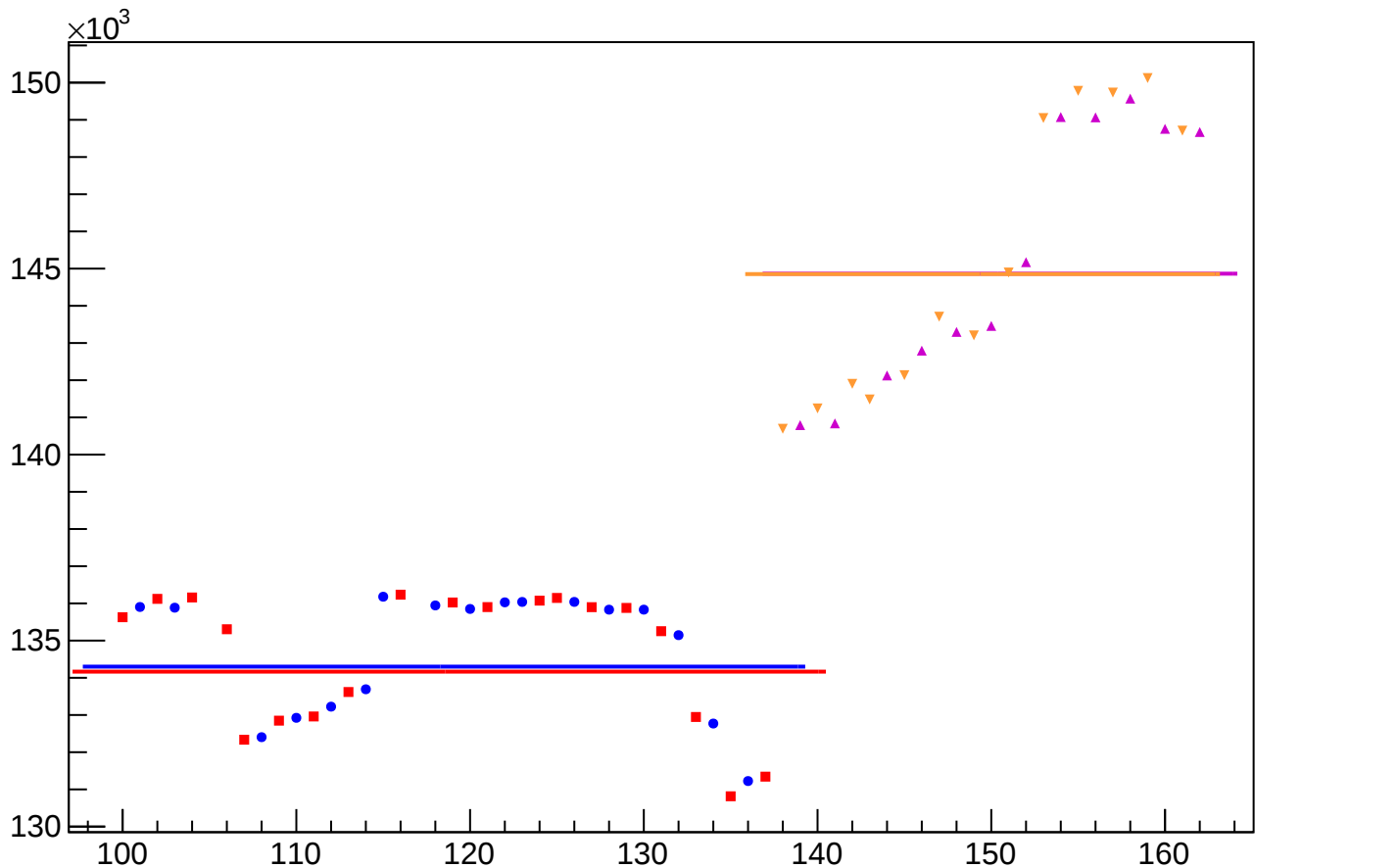
Right: 156.104 +/- 0.032 χ^2/NDF : 2315690.5/35

In: 171.891 +/- 0.031 χ^2/NDF : 1398624.6/28

Out: 166.293 +/- 0.030 χ^2/NDF : 1506723.6/31

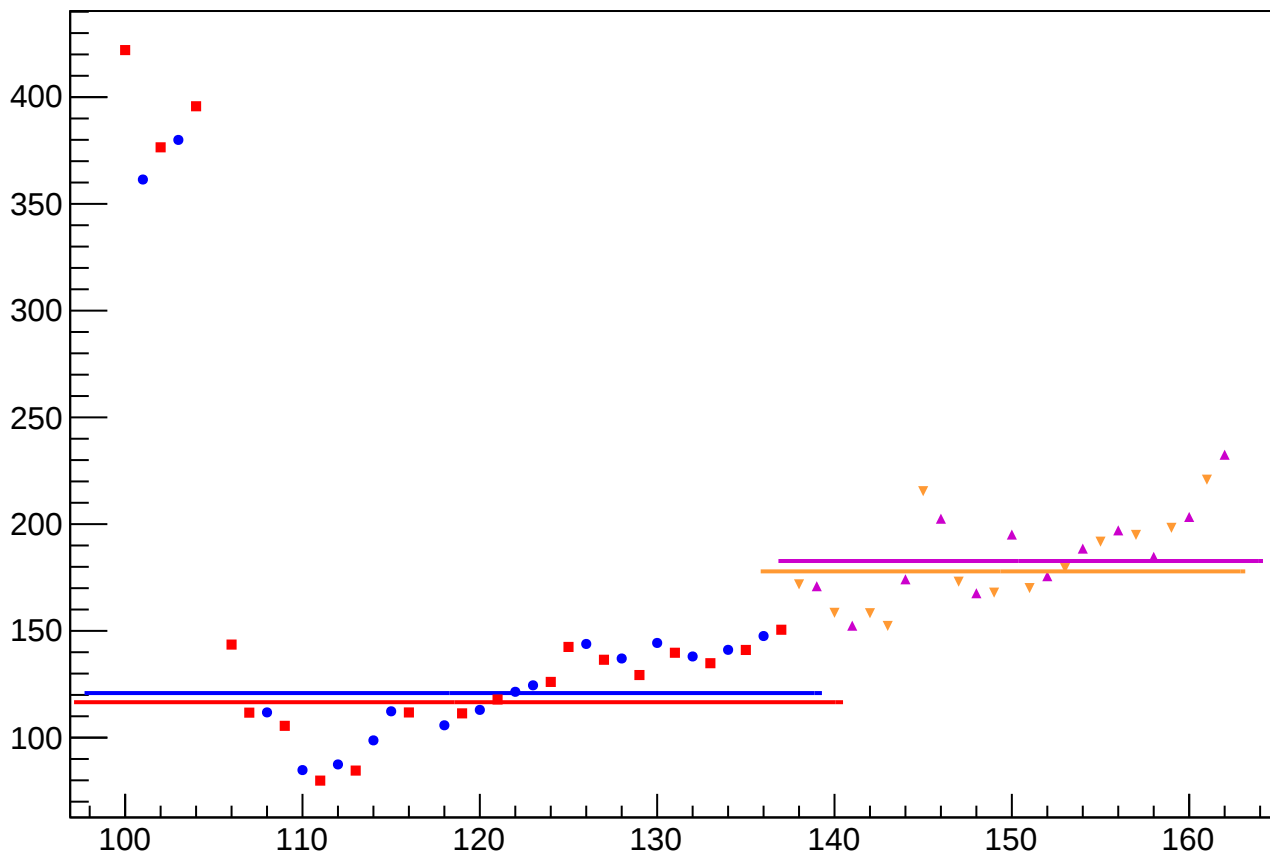
All: 168.967 +/- 0.021 χ^2/NDF : 2922430.2/60

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 144858.576 $\pm$ 0.041	χ^2 /NDF: 6913023059.5/2
Left Out: 144853.378 $\pm$ 0.058	χ^2 /NDF: 3750643367.1/12	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 138718.460 $\pm$ 0.038	χ^2 /NDF: 22729609747.8/2
Left In: 144864.075 $\pm$ 0.059	χ^2 /NDF: 3162363006.6/11	Out: 138469.167 $\pm$ 0.037	χ^2 /NDF: 25439770597.3
		All: 138587.942 $\pm$ 0.027	χ^2 /NDF: 481914492

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 177.871 $\pm$ 0.041 χ^2 /NDF:228439.1/12

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 182.727 $\pm$ 0.042 χ^2 /NDF:210521.1/11

Left: 180.231 $\pm$ 0.029 χ^2 /NDF: 445838.3/24

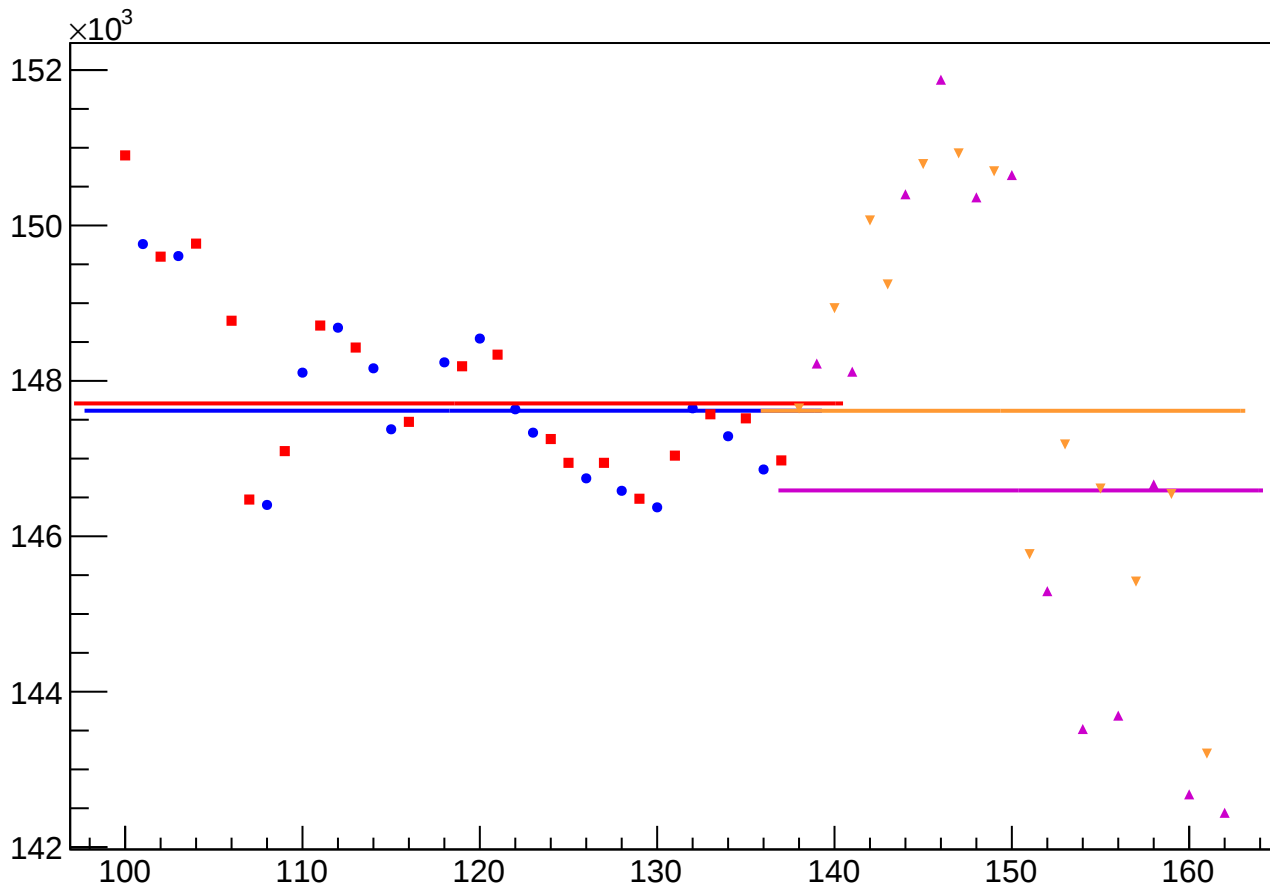
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 146.743 $\pm$ 0.027 χ^2 /NDF:2937104.3/28

Out: 141.268 $\pm$ 0.026 χ^2 /NDF:3116033.9/31

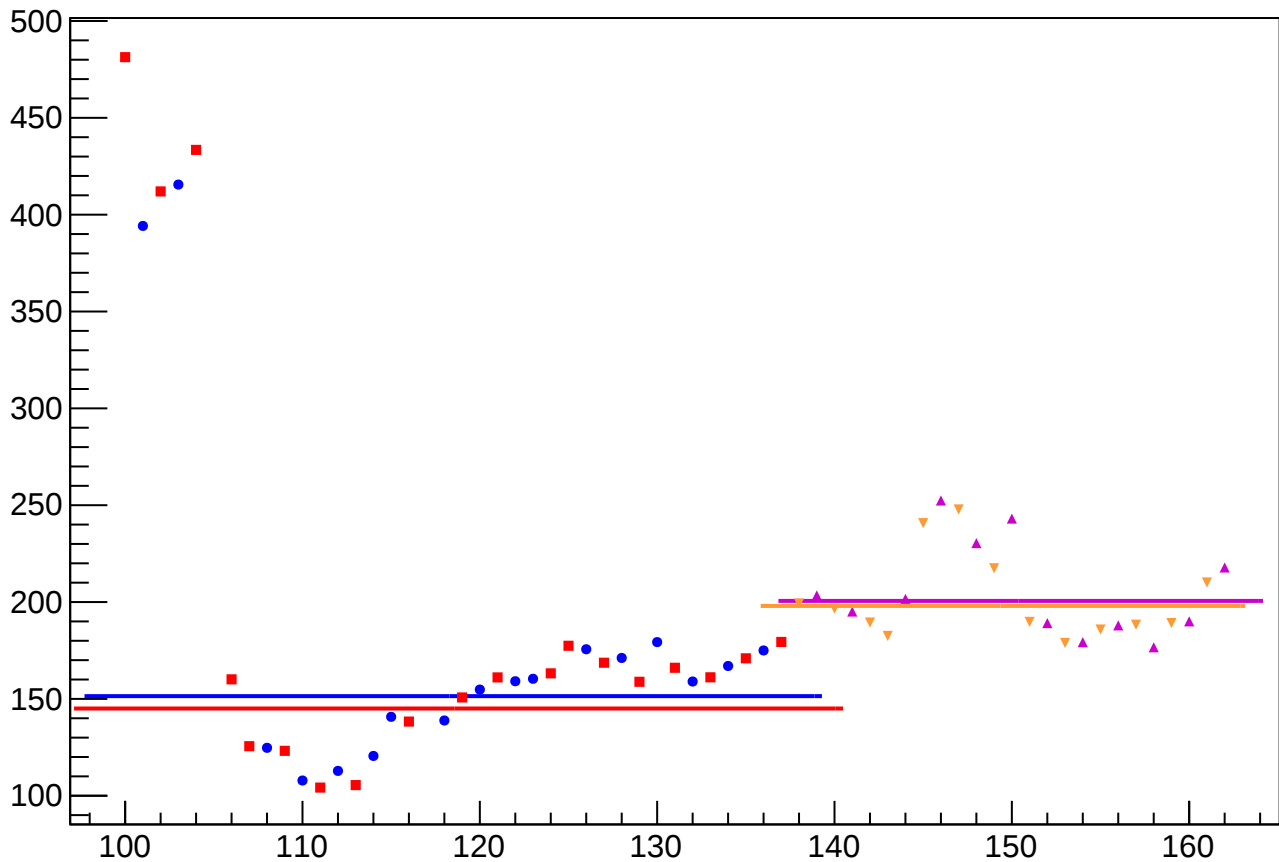
All: 143.877 $\pm$ 0.019 χ^2 /NDF: 6074427.5/60

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2 /NDF: 199263428.7/16	Left: 147110.385 $\pm$ 0.046	χ^2 /NDF: 3565945062.7/2
Left Out: 147615.119 $\pm$ 0.064	χ^2 /NDF: 1167357270.2/12	Right: 147666.153 $\pm$ 0.043	χ^2 /NDF: 404368550.3/3
Right Out: 147709.723 $\pm$ 0.058	χ^2 /NDF: 203906685.9/18	In: 147124.855 $\pm$ 0.045	χ^2 /NDF: 2601471426.6/28
Left In: 146590.168 $\pm$ 0.065	χ^2 /NDF: 2273100494.9/11	Out: 147666.951 $\pm$ 0.043	χ^2 /NDF: 1372453391.4/3
		All: 147407.777 $\pm$ 0.031	χ^2 /NDF: 404930438

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 197.997+/-0.045 χ^2/NDF : 175405.7/12

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 200.592+/-0.046 χ^2/NDF : 228412.5/11

Left: 199.275+/-0.032 χ^2/NDF : 405427.8/24

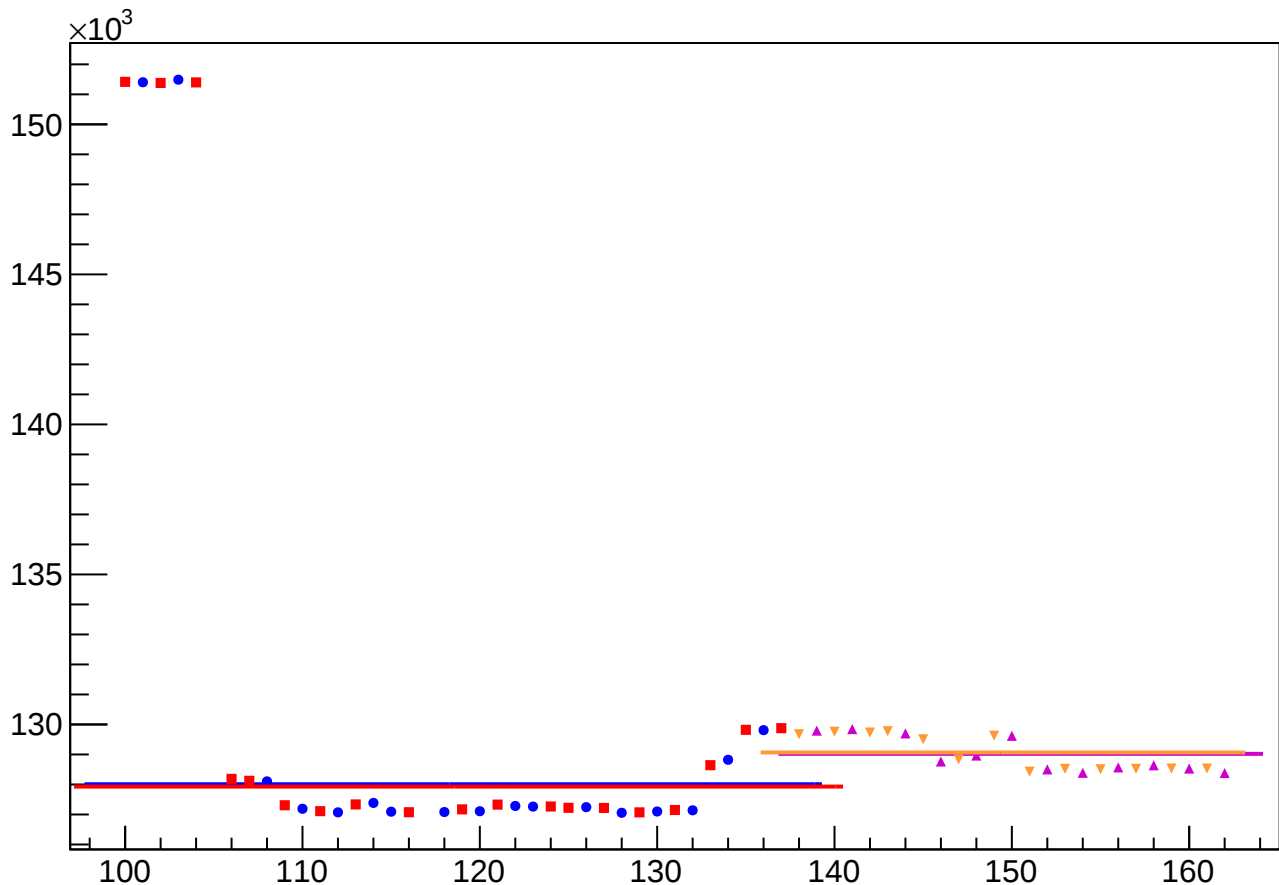
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 174.968+/-0.032 χ^2/NDF : 2079278.4/28

Out: 168.982+/-0.031 χ^2/NDF : 2296801.9/31

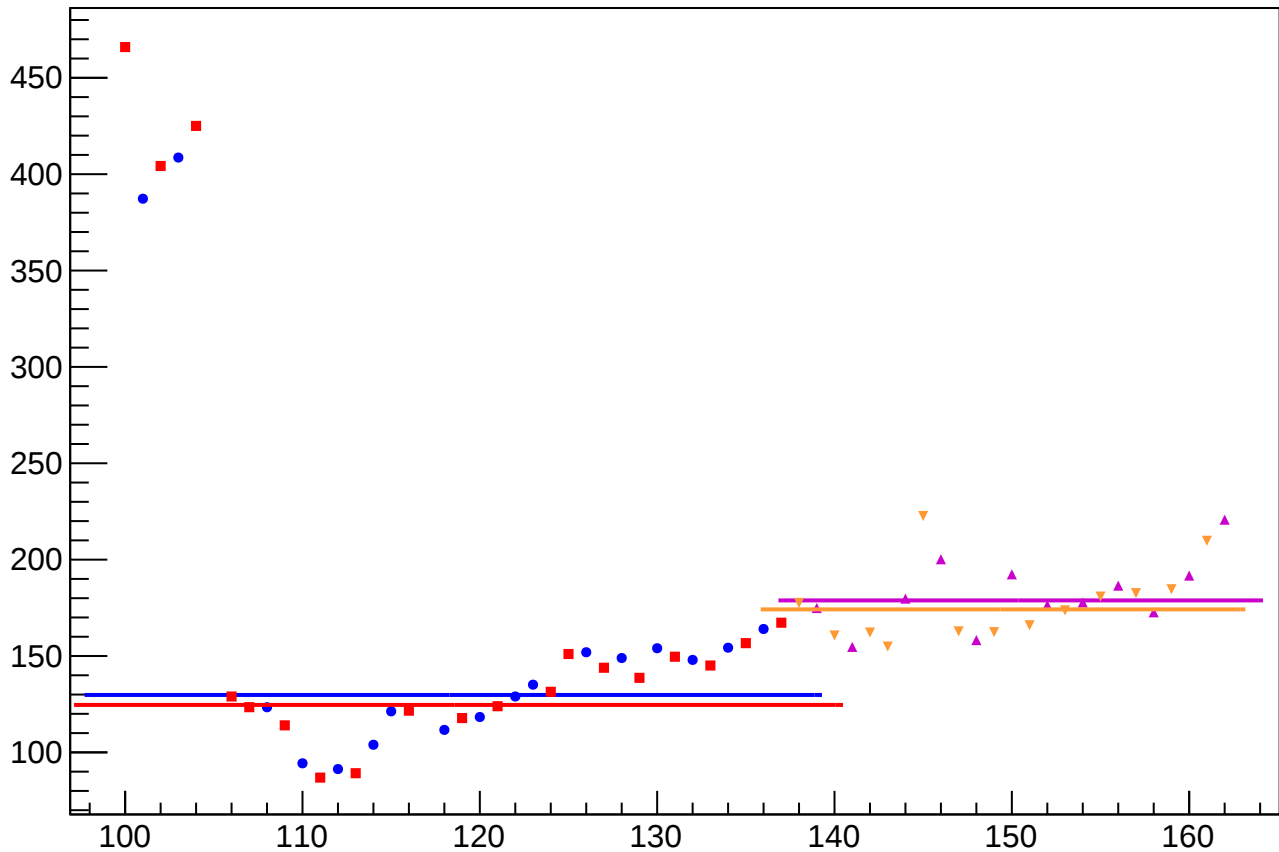
All: 171.844+/-0.022 χ^2/NDF : 4394464.6/60

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054	χ^2 /NDF: 4319785674.5/16	Left: 129044.685 $\pm$ 0.040	χ^2 /NDF: 200113054.8/24
Left Out: 129067.515 $\pm$ 0.056	χ^2 /NDF: 103157137.7/12	Right: 127965.988 $\pm$ 0.037	χ^2 /NDF: 8089052681.4/12
Right Out: 127930.136 $\pm$ 0.050	χ^2 /NDF: 3768176193.0/18	In: 128478.971 $\pm$ 0.040	χ^2 /NDF: 4579514825.4/28
Left In: 129020.521 $\pm$ 0.058	χ^2 /NDF: 96618352.7/11	Out: 128435.164 $\pm$ 0.038	χ^2 /NDF: 4097632486.6/32
		All: 128455.930 $\pm$ 0.027	χ^2 /NDF: 867779193.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 ± 0.038 $\chi^2/\text{NDF}: 1485294.2/16$

Left Out: 174.196 ± 0.040 $\chi^2/\text{NDF}: 185152.1/12$

Right Out: 124.625 ± 0.036 $\chi^2/\text{NDF}: 1531827.4/18$

Left In: 178.852 ± 0.041 $\chi^2/\text{NDF}: 162365.7/11$

Left: 176.458 ± 0.029 $\chi^2/\text{NDF}: 354146.3/24$

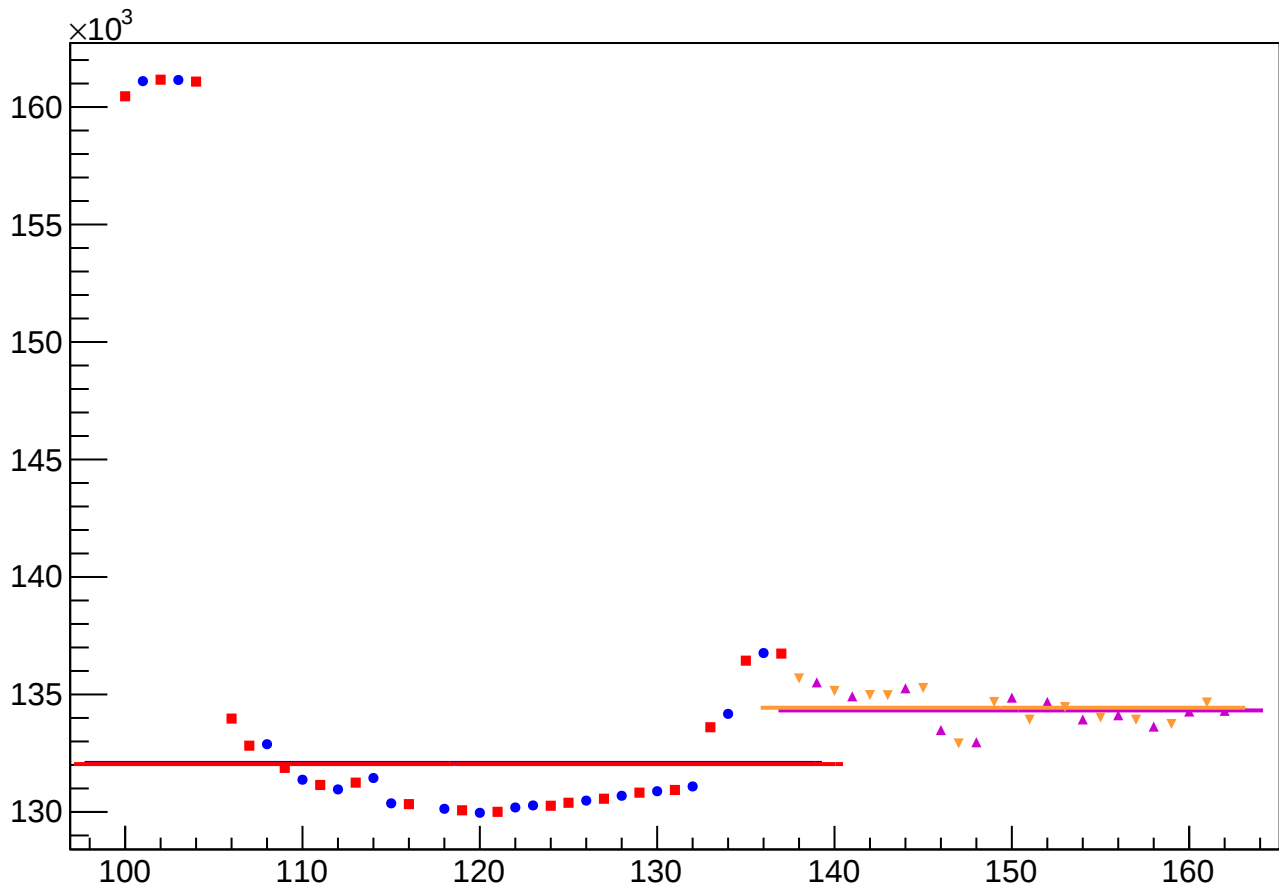
Right: 127.025 ± 0.026 $\chi^2/\text{NDF}: 3026904.3/35$

In: 152.631 ± 0.028 $\chi^2/\text{NDF}: 2412448.7/28$

Out: 146.635 ± 0.027 $\chi^2/\text{NDF}: 2576702.1/31$

All: 149.477 ± 0.019 $\chi^2/\text{NDF}: 5013297.7/60$

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2/NDF : 6733230928.7/16

Left Out: 134435.701 $\pm$ 0.058

χ^2/NDF : 160475322.8/12

Right Out: 132037.539 $\pm$ 0.053

χ^2/NDF : 5882115872.9/18

Left In: 134320.887 $\pm$ 0.060

χ^2/NDF : 155570918.6/11

Left: 134379.770 $\pm$ 0.042

χ^2/NDF : 317927094.7/24

Right: 132060.364 $\pm$ 0.038

χ^2/NDF : 12615754245.0/16

In: 133138.130 $\pm$ 0.041

χ^2/NDF : 7623922450.9/28

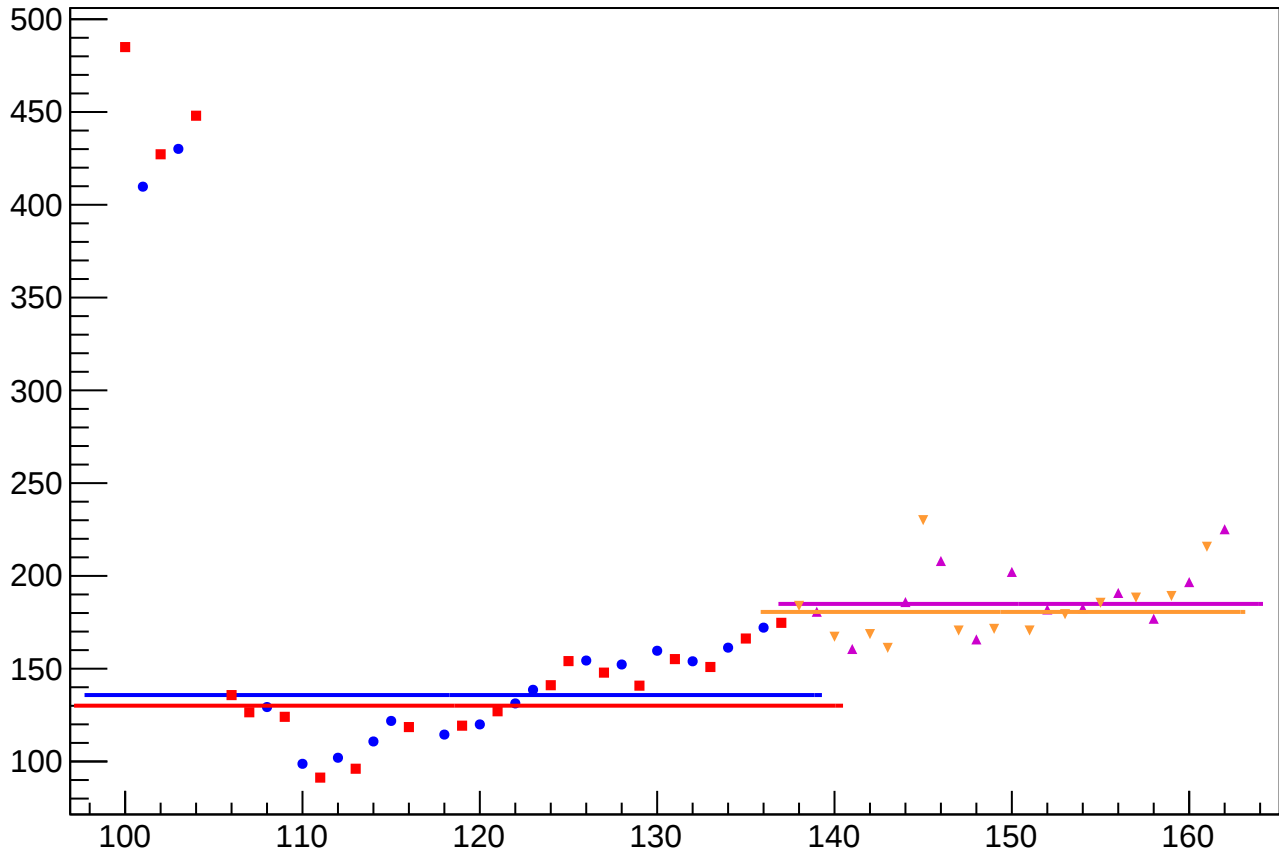
Out: 133109.427 $\pm$ 0.039

χ^2/NDF : 6974170428.8/32

All: 133123.040 $\pm$ 0.028

χ^2/NDF : 145983483.0/60

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2 /NDF: 1441904.9/16

Left Out: 180.588 $\pm$ 0.041 χ^2 /NDF:168642.8/12

Right Out: 130.070 $\pm$ 0.037 χ^2 /NDF: 1503997.6/18

Left In: 184.911 $\pm$ 0.042 χ^2 /NDF:152399.0/11

Left: 182.694 $\pm$ 0.030 χ^2 /NDF: 326374.2/24

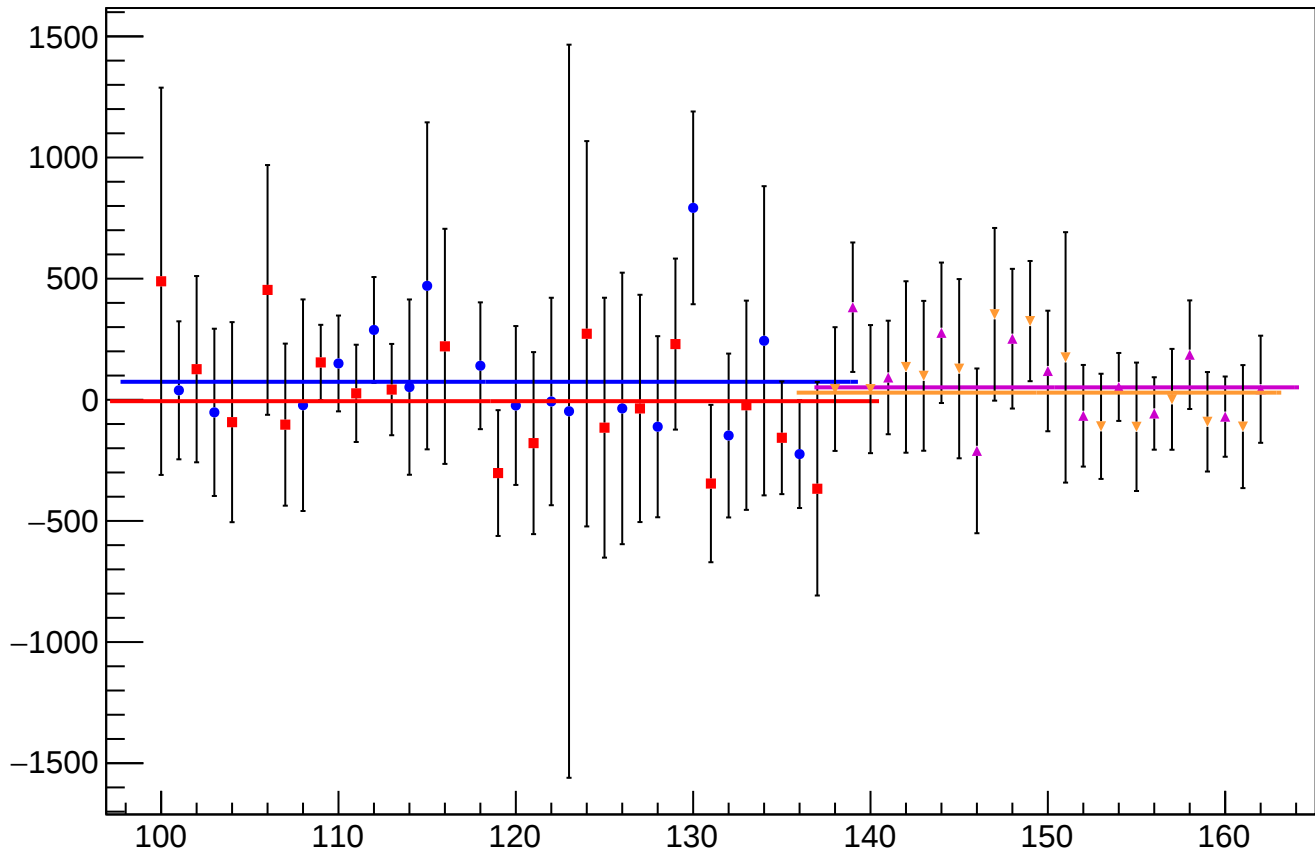
Right: 132.723 $\pm$ 0.027 χ^2 /NDF: 2956918.0/35

In: 158.909 $\pm$ 0.029 χ^2 /NDF:2304885.9/28

Out: 152.650 $\pm$ 0.028 χ^2 /NDF:2499440.4/31

All: 155.618 $\pm$ 0.020 χ^2 /NDF: 4828681.8/60

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2 /NDF: 7.7/16

Left Out: 29.504 $\pm$ 74.326 χ^2 /NDF:3.9/12

Right Out: -5.739 $\pm$ 70.069 χ^2 /NDF: 7.1/18

Left In: 51.378 $\pm$ 60.187 χ^2 /NDF:5.0/11

Left: 42.715 $\pm$ 46.774 χ^2 /NDF: 9.0/24

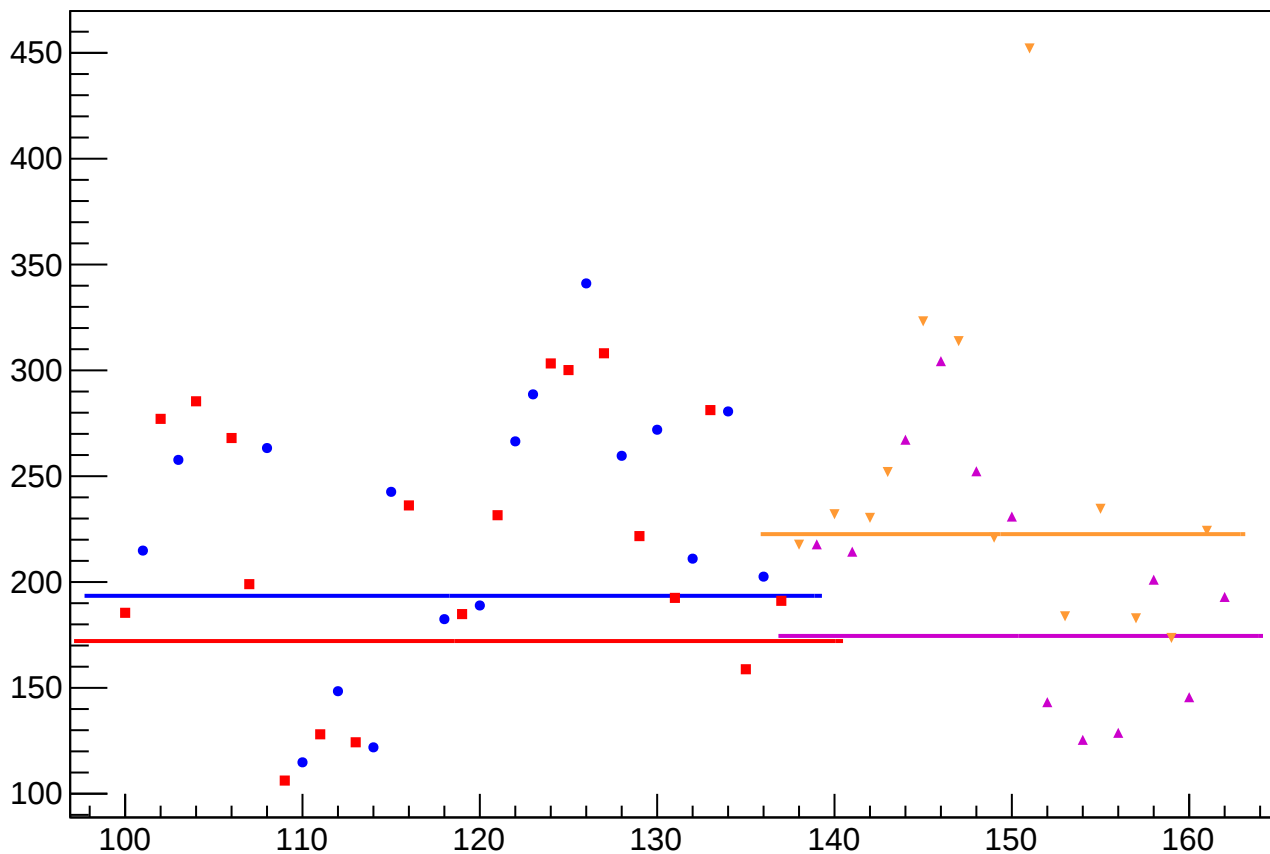
Right: 29.490 $\pm$ 52.426 χ^2 /NDF: 15.4/35

In: 59.792 $\pm$ 47.880 χ^2 /NDF:12.8/28

Out: 10.844 $\pm$ 50.985 χ^2 /NDF:11.1/31

All: 36.854 $\pm$ 34.902 χ^2 /NDF: 24.4/60

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 222.631+/-0.053 χ^2/NDF : 950393.4/12

Right Out: 172.122+/-0.050 χ^2/NDF : 1579840.2/18

Left In: 174.541+/-0.043 χ^2/NDF : 1434668.9/11

Left: 193.586+/-0.033 χ^2/NDF : 2890745.5/24

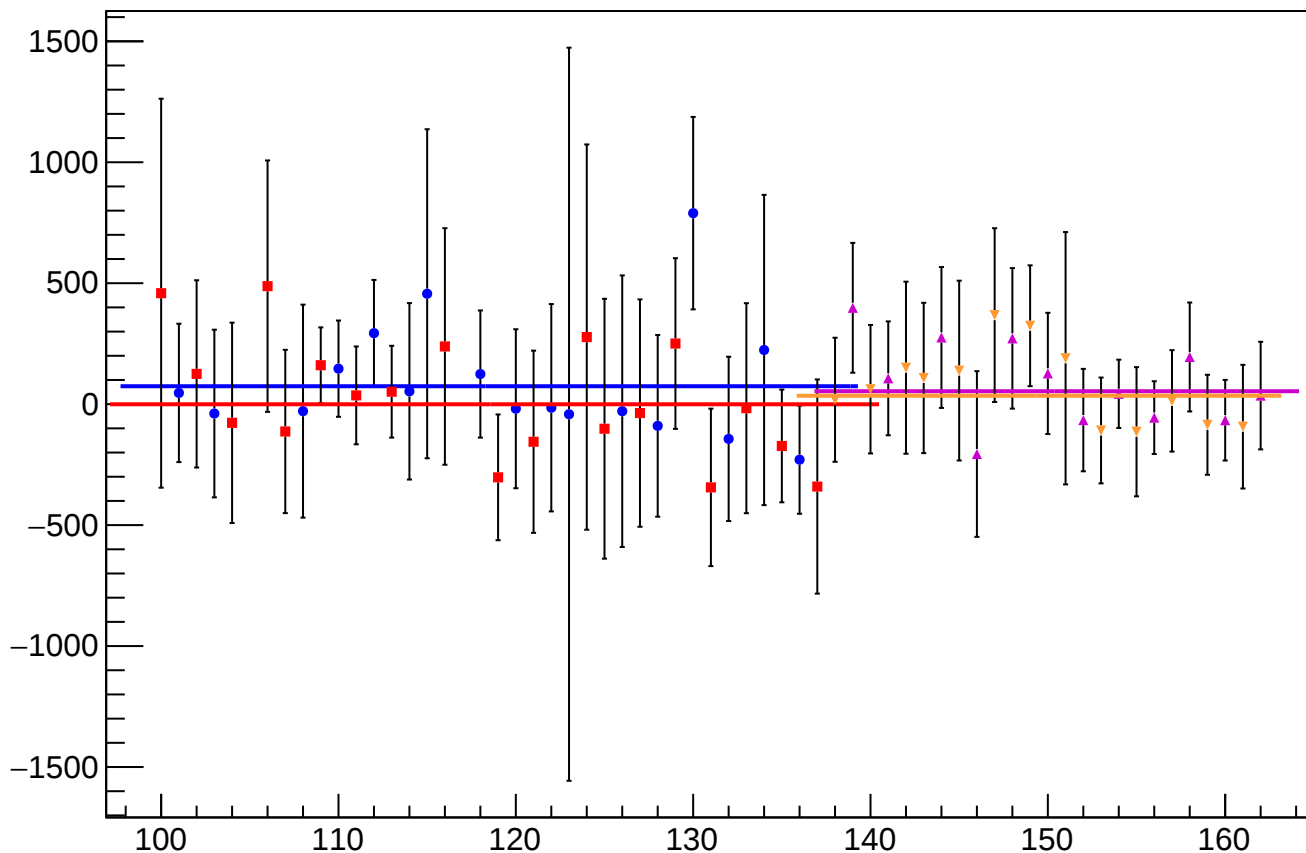
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 181.497+/-0.034 χ^2/NDF : 2524635.1/28

Out: 195.889+/-0.036 χ^2/NDF : 3019243.5/31

All: 188.242+/-0.025 χ^2/NDF : 5628557.3/60

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2/NDF : 7.6/16

Left Out: 34.911 $\pm$ 74.803 χ^2/NDF : 3.9/12

Right Out: -0.503 $\pm$ 70.437 χ^2/NDF : 7.3/18

Left In: 53.494 $\pm$ 60.553 χ^2/NDF : 5.3/11

Left: 46.138 $\pm$ 47.065 χ^2/NDF : 9.2/24

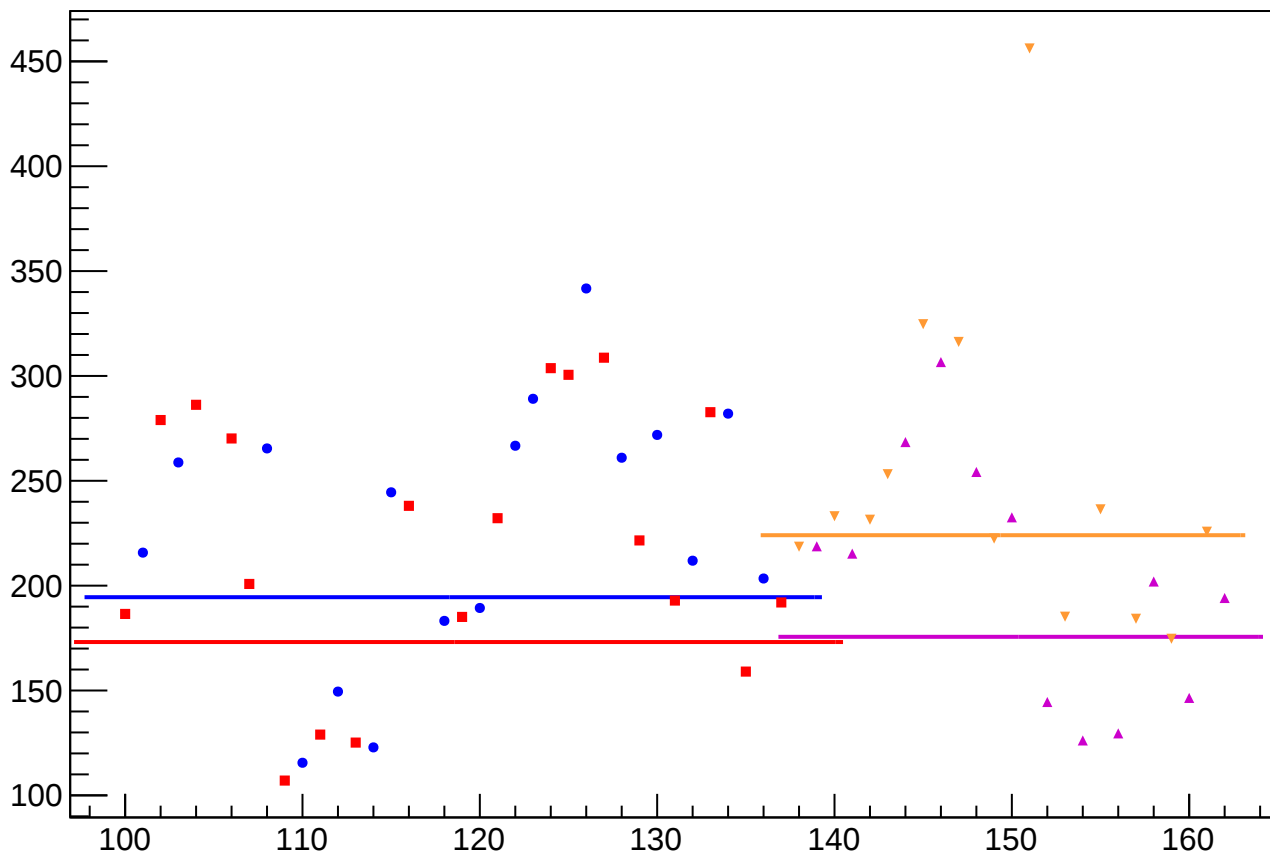
Right: 32.349 $\pm$ 52.693 χ^2/NDF : 15.4/35

In: 61.070 $\pm$ 48.150 χ^2/NDF : 12.9/28

Out: 16.141 $\pm$ 51.280 χ^2/NDF : 11.3/31

All: 40.019 $\pm$ 35.102 χ^2/NDF : 24.6/60

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496+/-0.056 χ^2/NDF : 1008514.7/16

Left Out: 224.054+/-0.053 χ^2/NDF : 949922.6/12

Right Out: 173.111+/-0.050 χ^2/NDF : 1567374.3/18

Left In: 175.602+/-0.043 χ^2/NDF : 1432675.7/11

Left: 194.783+/-0.033 χ^2/NDF : 2889515.7/24

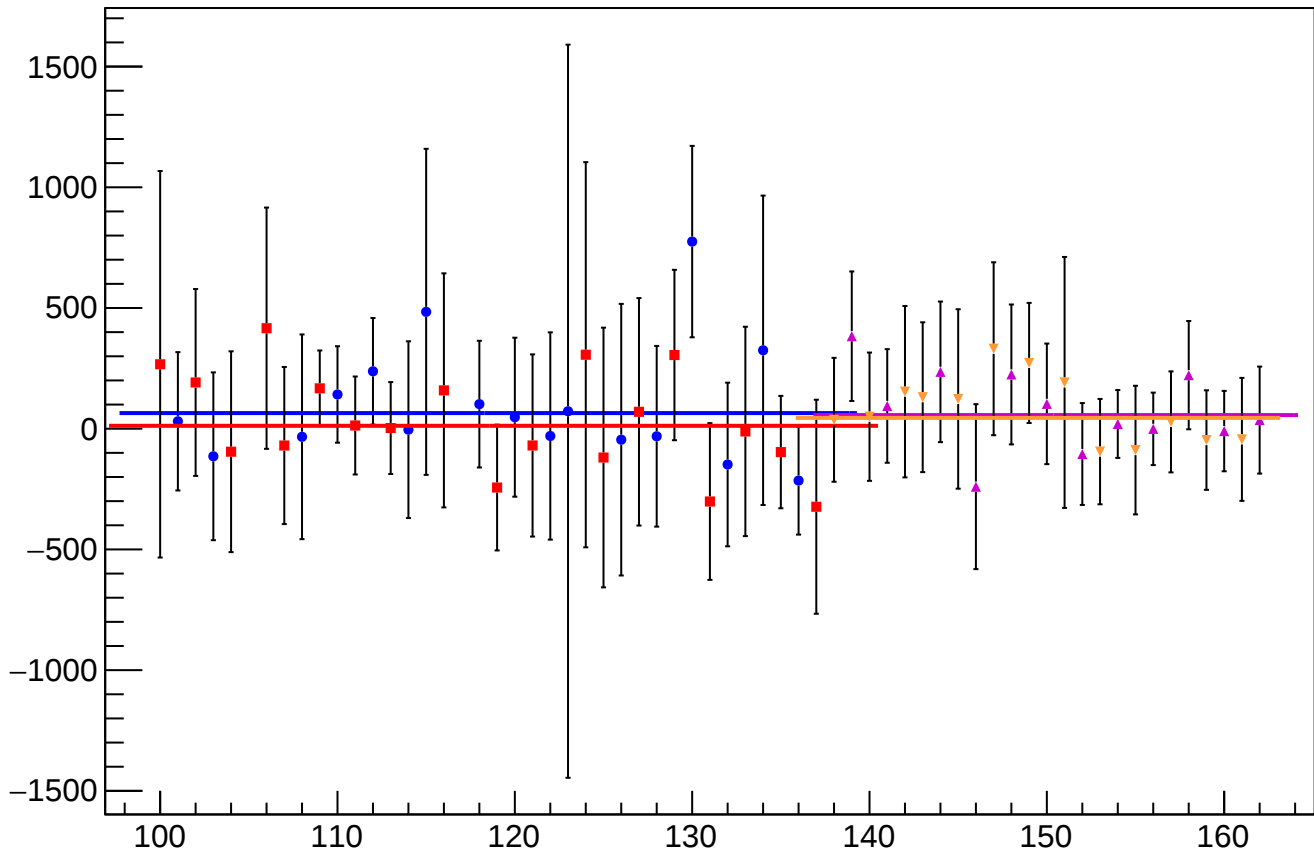
Right: 182.529+/-0.037 χ^2/NDF : 2657073.5/35

In: 182.550+/-0.034 χ^2/NDF : 2512791.4/28

Out: 197.053+/-0.036 χ^2/NDF : 3008952.7/31

All: 189.345+/-0.025 χ^2/NDF : 5606758.6/60

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 44.825+/-74.647 χ^2/NDF : 2.8/12

Right Out: 12.094+/-70.361 χ^2/NDF : 5.8/18

Left In: 56.482+/-60.406 χ^2/NDF : 4.5/11

Left: 51.869+/-46.957 χ^2/NDF : 7.3/24

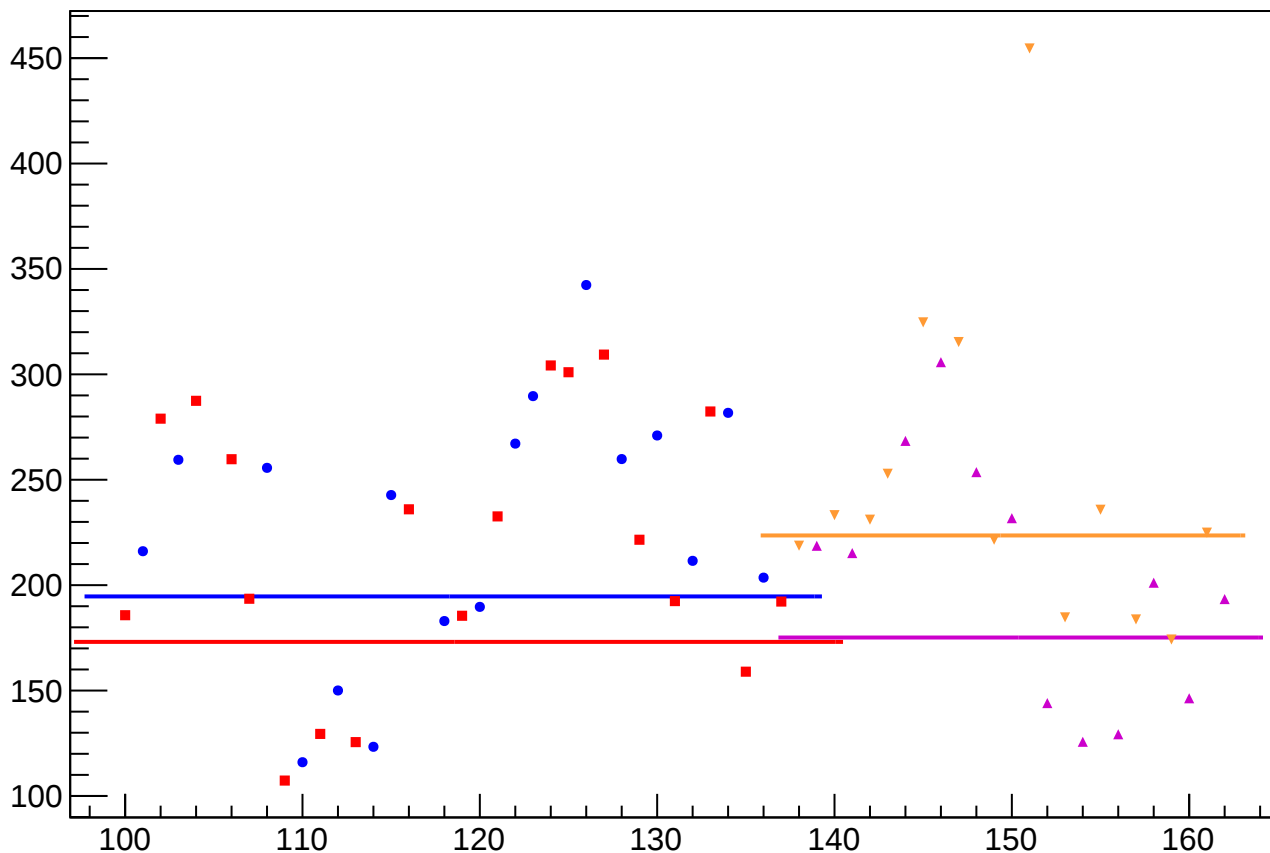
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 59.507+/-48.074 χ^2/NDF : 11.6/28

Out: 27.493+/-51.201 χ^2/NDF : 8.7/31

All: 44.507+/-35.047 χ^2/NDF : 20.4/60

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 223.579 $\pm$ 0.053 χ^2 /NDF: 951446.7/12

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 175.161 $\pm$ 0.043 χ^2 /NDF: 1435986.3/11

Left: 194.320 $\pm$ 0.033 χ^2 /NDF: 2895899.1/24

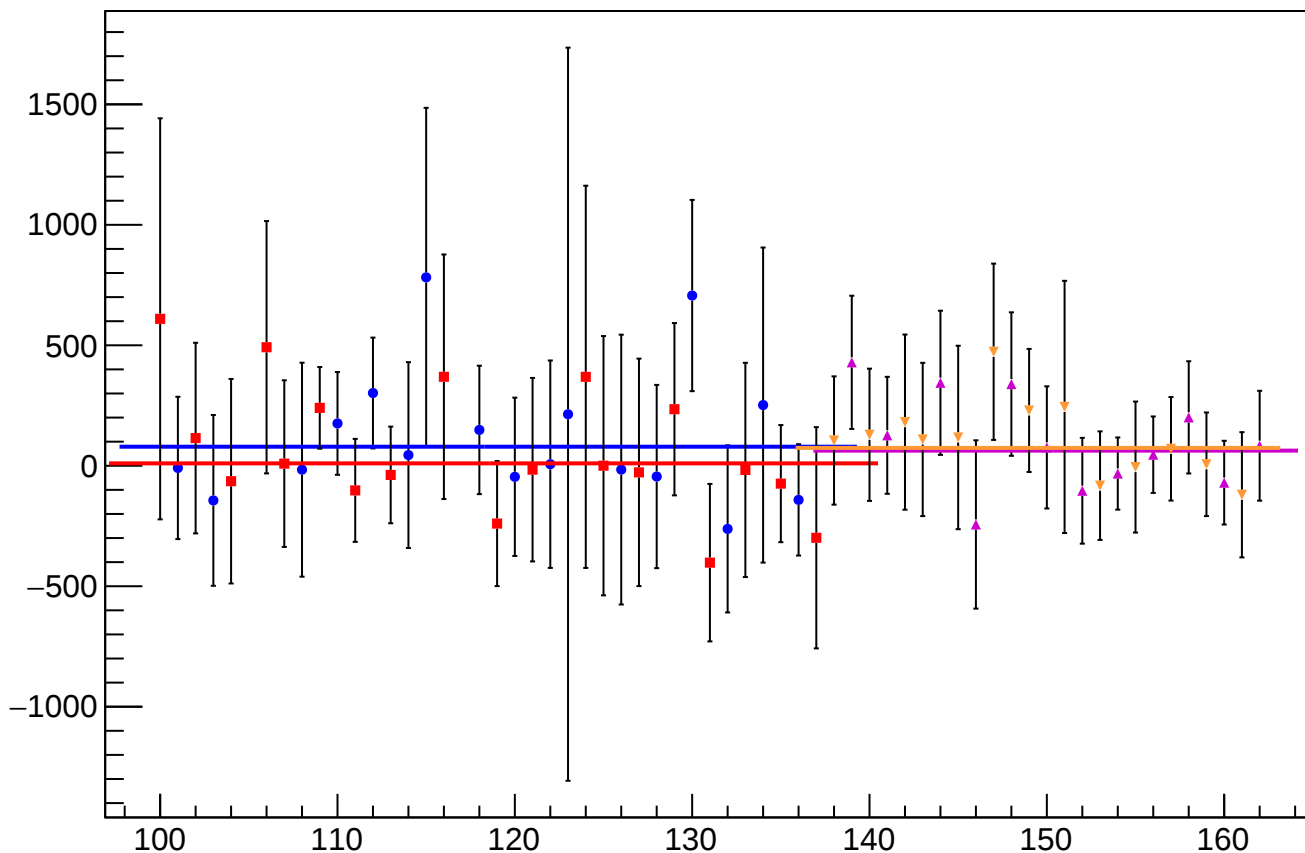
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 182.306 $\pm$ 0.034 χ^2 /NDF: 2499123.1/28

Out: 196.843 $\pm$ 0.036 χ^2 /NDF: 2980502.0/31

All: 189.117 $\pm$ 0.025 χ^2 /NDF: 5565300.2/60

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2/NDF : 7.5/16

Left Out: 74.137 $\pm$ 76.800 χ^2/NDF : 3.1/12

Right Out: 9.982 $\pm$ 73.310 χ^2/NDF : 7.9/18

Left In: 62.826 $\pm$ 62.980 χ^2/NDF : 6.3/11

Left: 67.374 $\pm$ 48.699 χ^2/NDF : 9.4/24

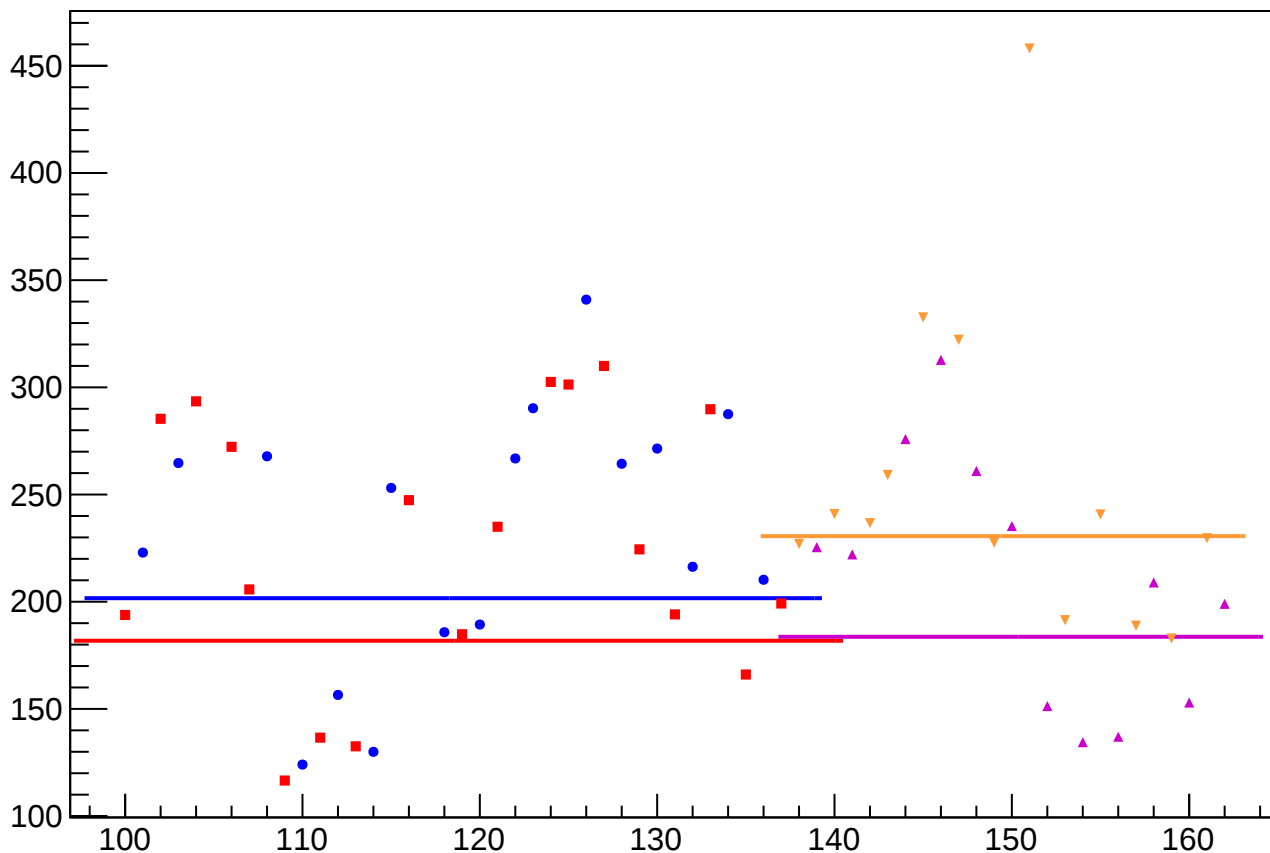
Right: 40.751 $\pm$ 54.616 χ^2/NDF : 15.8/35

In: 68.886 $\pm$ 49.920 χ^2/NDF : 13.8/28

Out: 40.569 $\pm$ 53.029 χ^2/NDF : 11.3/31

All: 55.582 $\pm$ 36.348 χ^2/NDF : 25.3/60

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 230.594 $\pm$ 0.054 χ^2 /NDF: 904693.5/12

Right Out: 181.797 $\pm$ 0.052 χ^2 /NDF: 1377449.9/18

Left In: 183.641 $\pm$ 0.045 χ^2 /NDF: 1304007.3/11

Left: 202.521 $\pm$ 0.034 χ^2 /NDF: 2655666.8/24

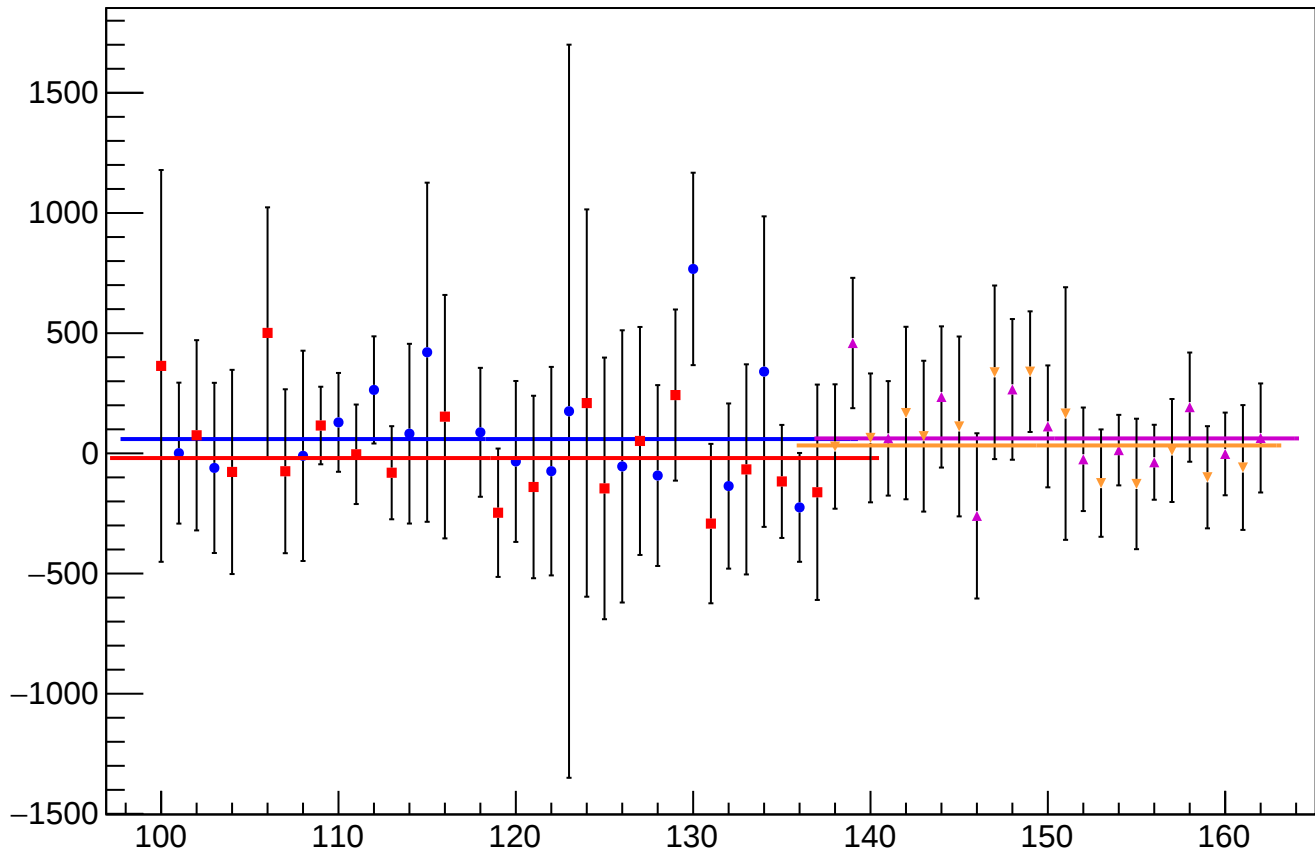
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 190.338 $\pm$ 0.035 χ^2 /NDF: 2248006.0/28

Out: 205.062 $\pm$ 0.037 χ^2 /NDF: 2704610.5/31

All: 197.256 $\pm$ 0.026 χ^2 /NDF: 5034371.0/60

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496+/-80.808 χ^2/NDF : 7.0/16

Left Out: 32.905+/-75.932 χ^2/NDF : 3.8/12

Right Out: -19.541+/-71.866 χ^2/NDF : 4.7/18

Left In: 62.156+/-61.990 χ^2/NDF : 5.0/11

Left: 50.457+/-48.020 χ^2/NDF : 9.0/24

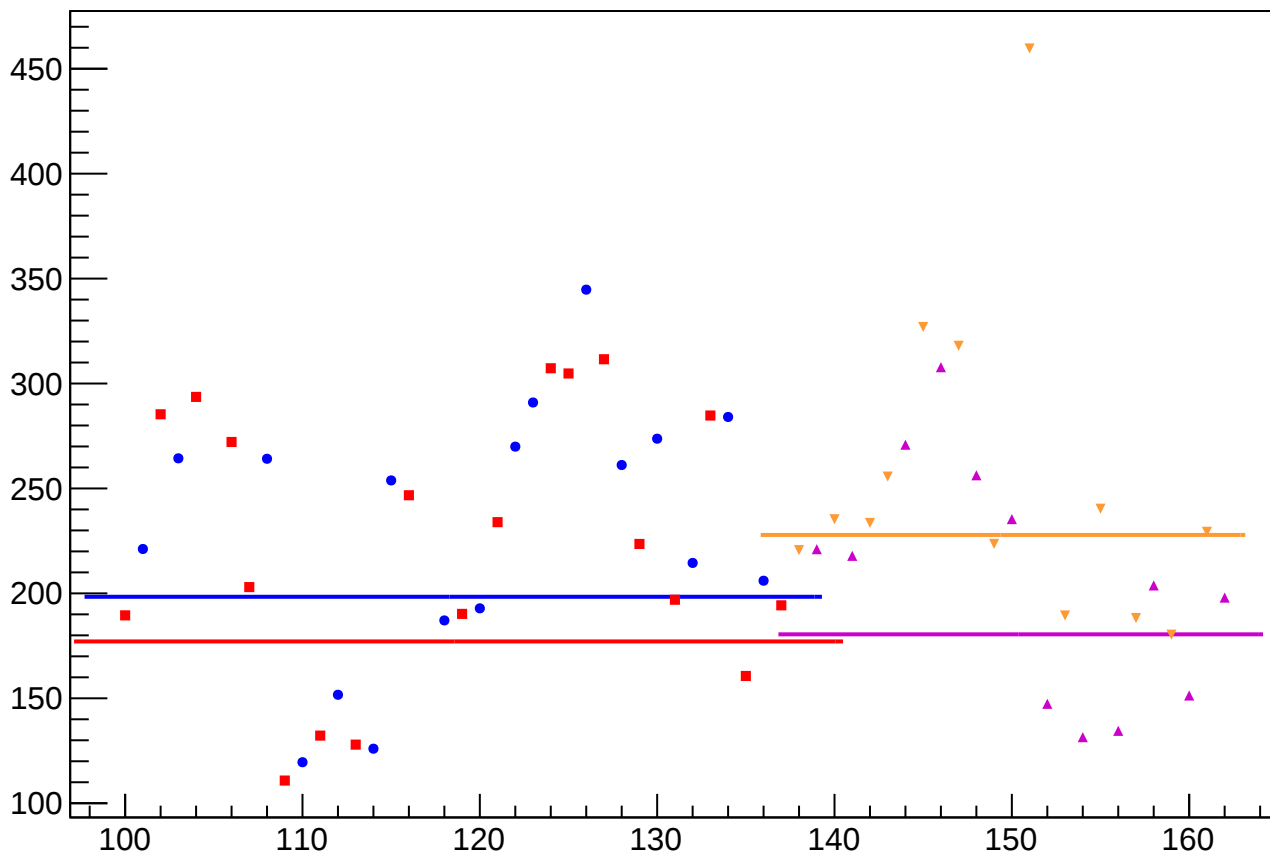
Right: 15.364+/-53.701 χ^2/NDF : 12.3/35

In: 61.170+/-49.185 χ^2/NDF : 12.0/28

Out: 5.240+/-52.195 χ^2/NDF : 8.8/31

All: 34.865+/-35.796 χ^2/NDF : 21.5/60

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 227.848+/-0.054 χ^2/NDF : 905695.3/12

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 180.481+/-0.044 χ^2/NDF : 1320037.5/11

Left: 199.425+/-0.034 χ^2/NDF : 2692744.4/24

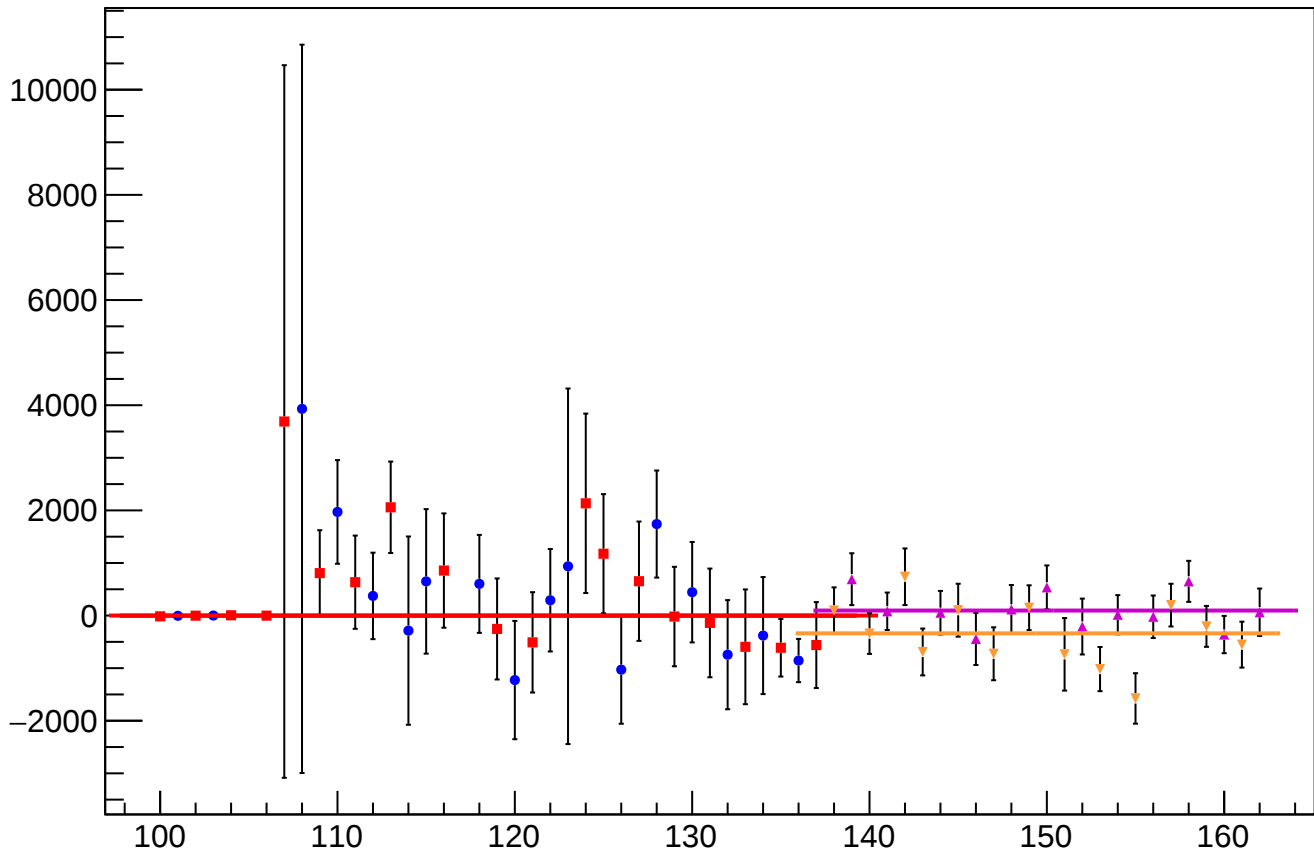
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 187.111+/-0.035 χ^2/NDF : 2345471.0/28

Out: 201.077+/-0.037 χ^2/NDF : 2901758.5/31

All: 193.680+/-0.025 χ^2/NDF : 5323068.2/60

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -338.063 ± 125.199 χ^2/NDF : 20.0/12

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 95.705 ± 120.753 χ^2/NDF : 7.9/11

Left: -113.340 ± 86.914 χ^2/NDF : 34.1/24

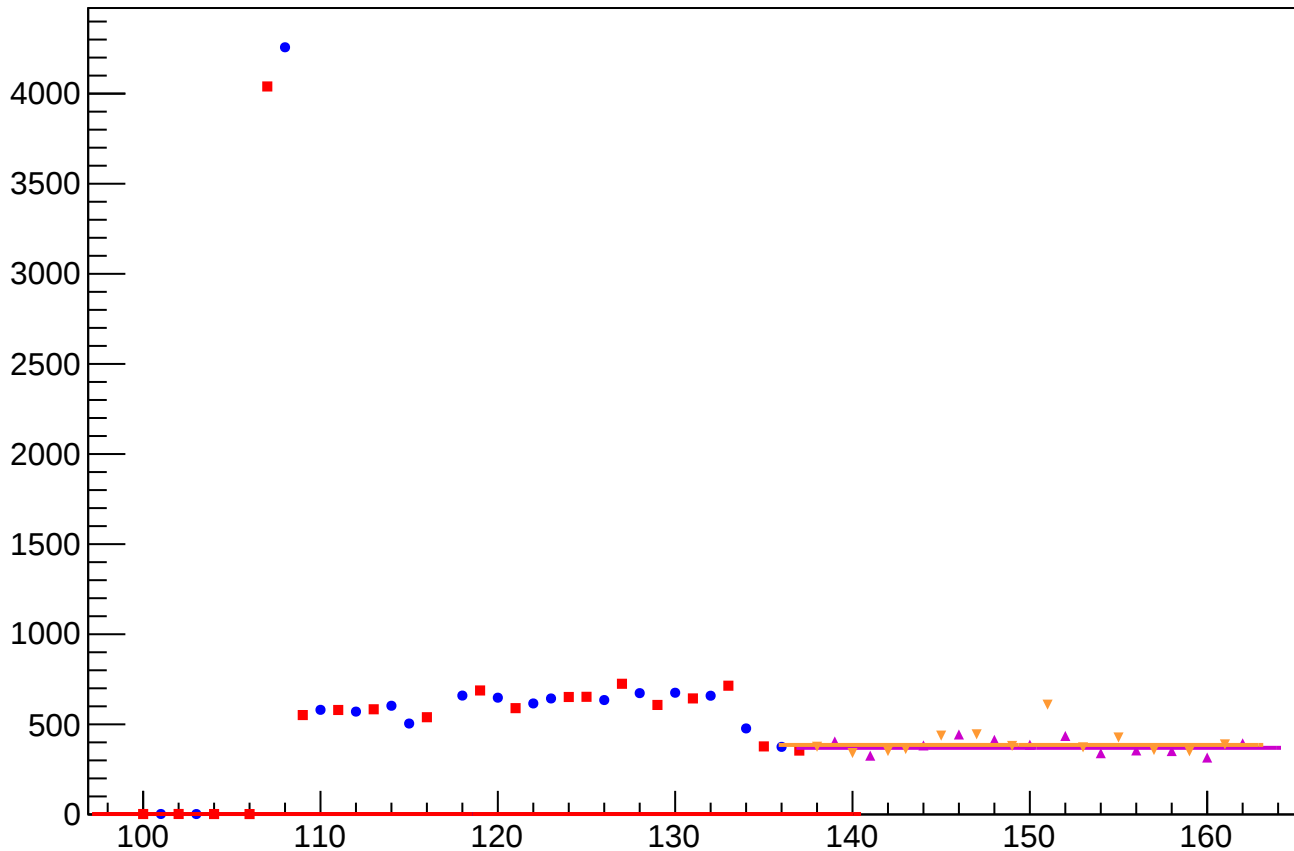
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.496 ± 2.251 χ^2/NDF : 25.5/28

Out: 0.630 ± 2.111 χ^2/NDF : 46.6/31

All: -0.364 ± 1.540 χ^2/NDF : 72.6/60

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 385.786+/-0.089 χ^2/NDF : 343429.6/12

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 369.735+/-0.085 χ^2/NDF : 211293.3/11

Left: 377.470+/-0.061 χ^2/NDF : 571753.6/24

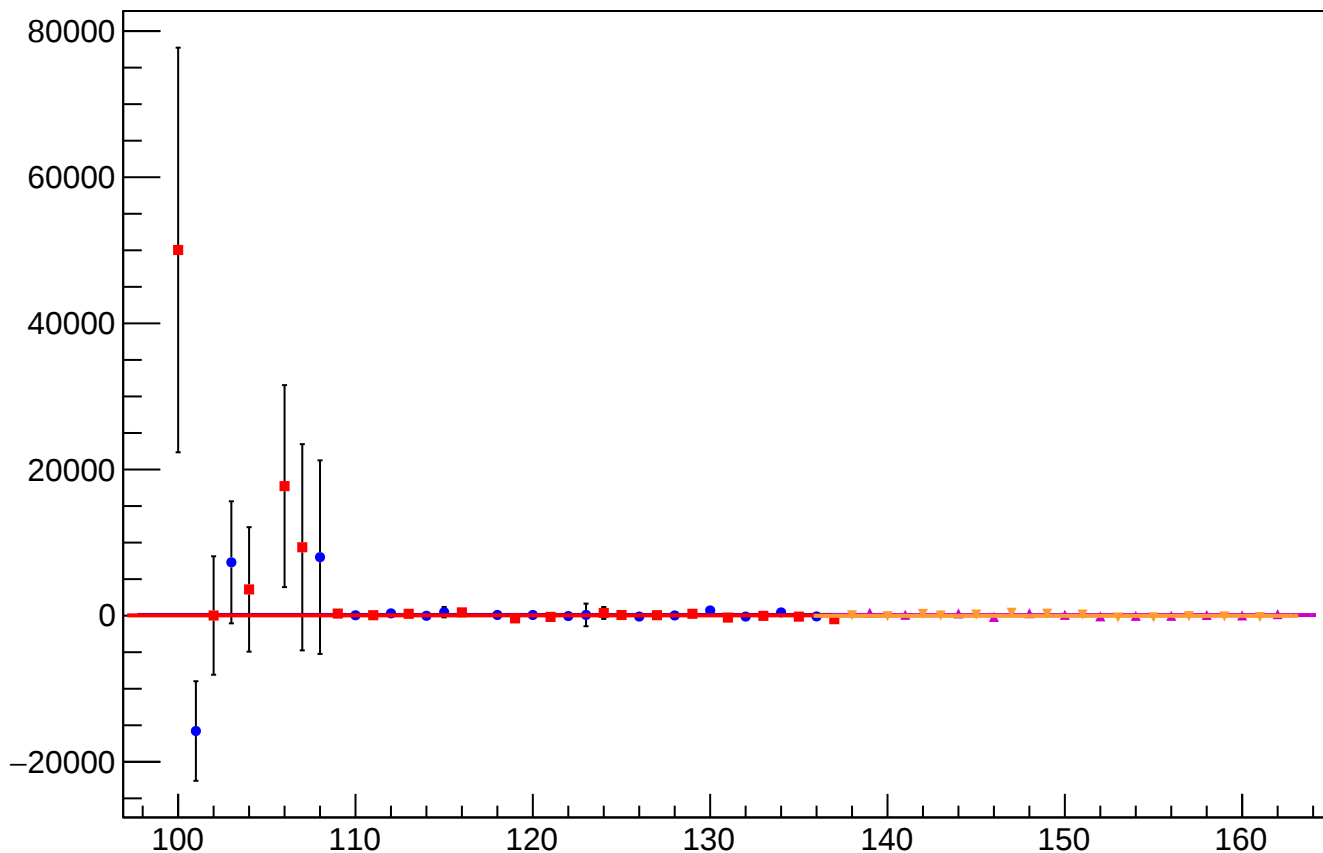
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.584+/-0.002 χ^2/NDF : 29555062.7/28

Out: 2.546+/-0.001 χ^2/NDF : 30236271.3/31

All: 2.564+/-0.001 χ^2/NDF : 59791646.7/60

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -26.120+/-80.829 χ^2/NDF : 5.1/12

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 82.873+/-66.600 χ^2/NDF : 4.8/11

Left: 38.799+/-51.400 χ^2/NDF : 11.0/24

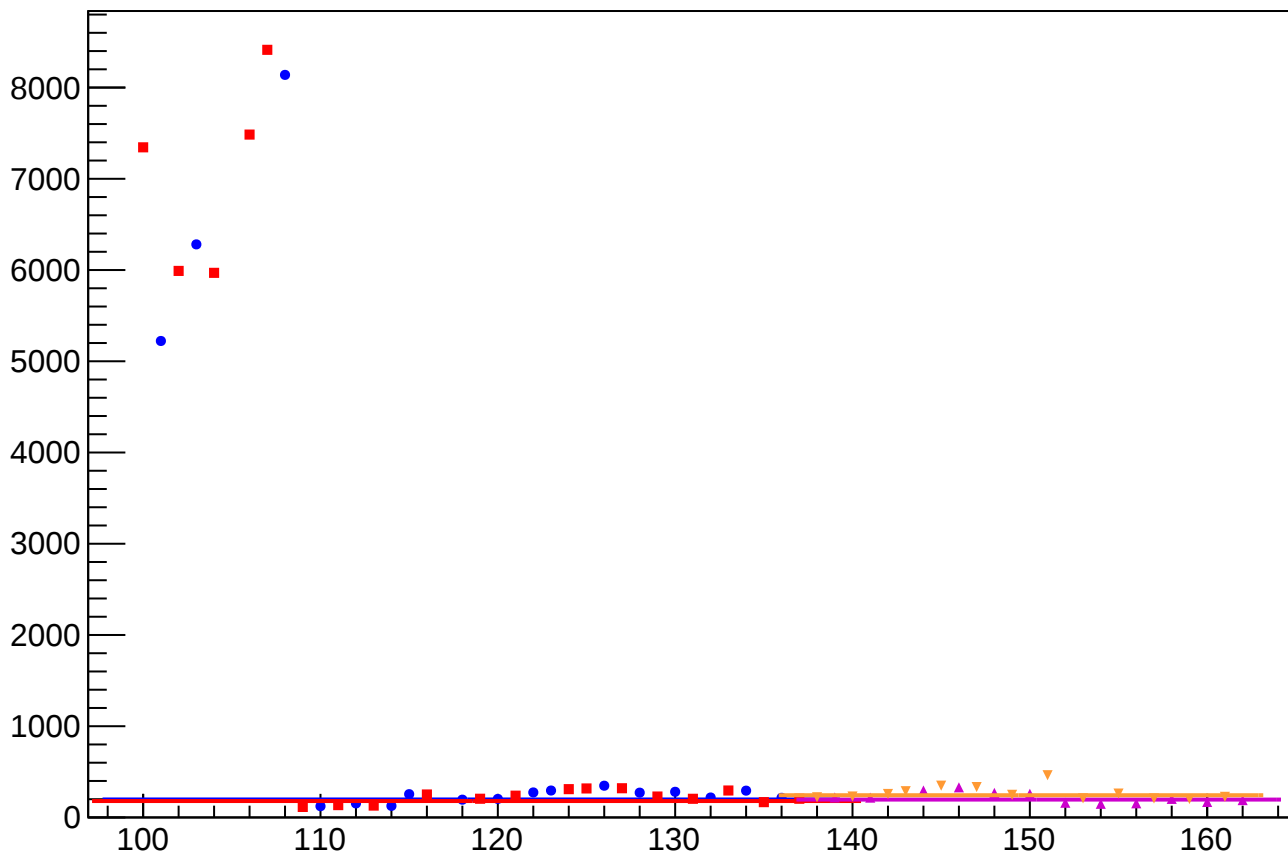
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 88.385+/-53.715 χ^2/NDF : 16.7/28

Out: 6.574+/-58.408 χ^2/NDF : 19.4/31

All: 50.898+/-39.538 χ^2/NDF : 37.1/60

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 243.672+/-0.057 χ^2/NDF : 817954.2/12

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 195.880+/-0.047 χ^2/NDF : 1051439.2/11

Left: 215.206+/-0.036 χ^2/NDF : 2285864.7/24

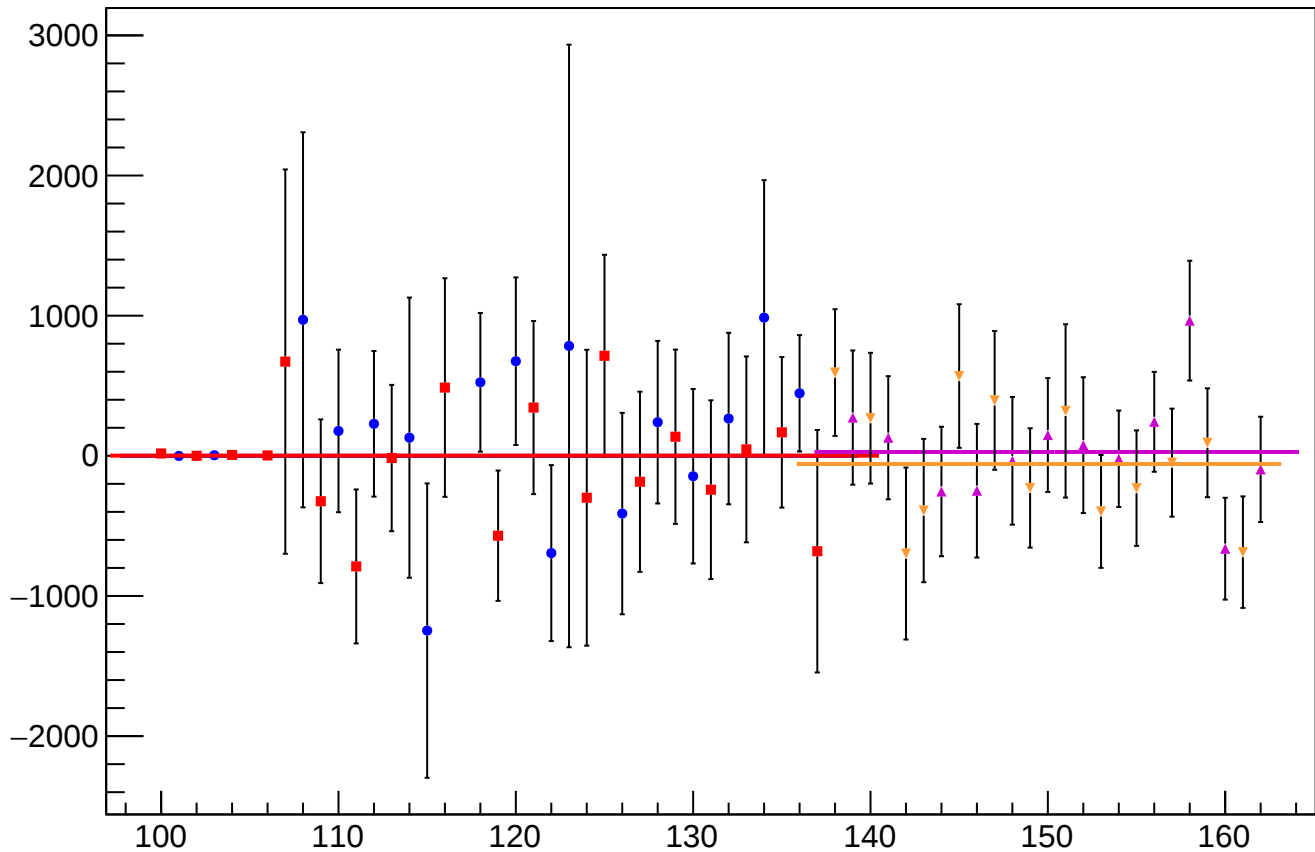
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.301+/-0.038 χ^2/NDF : 4745282.3/28

Out: 213.223+/-0.041 χ^2/NDF : 5733094.0/31

All: 204.055+/-0.028 χ^2/NDF : 10569329.0/60

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -58.165 ± 125.266 χ^2/NDF : 10.5/12

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 27.514 ± 119.333 χ^2/NDF : 10.1/11

Left: -13.249 ± 86.402 χ^2/NDF : 20.8/24

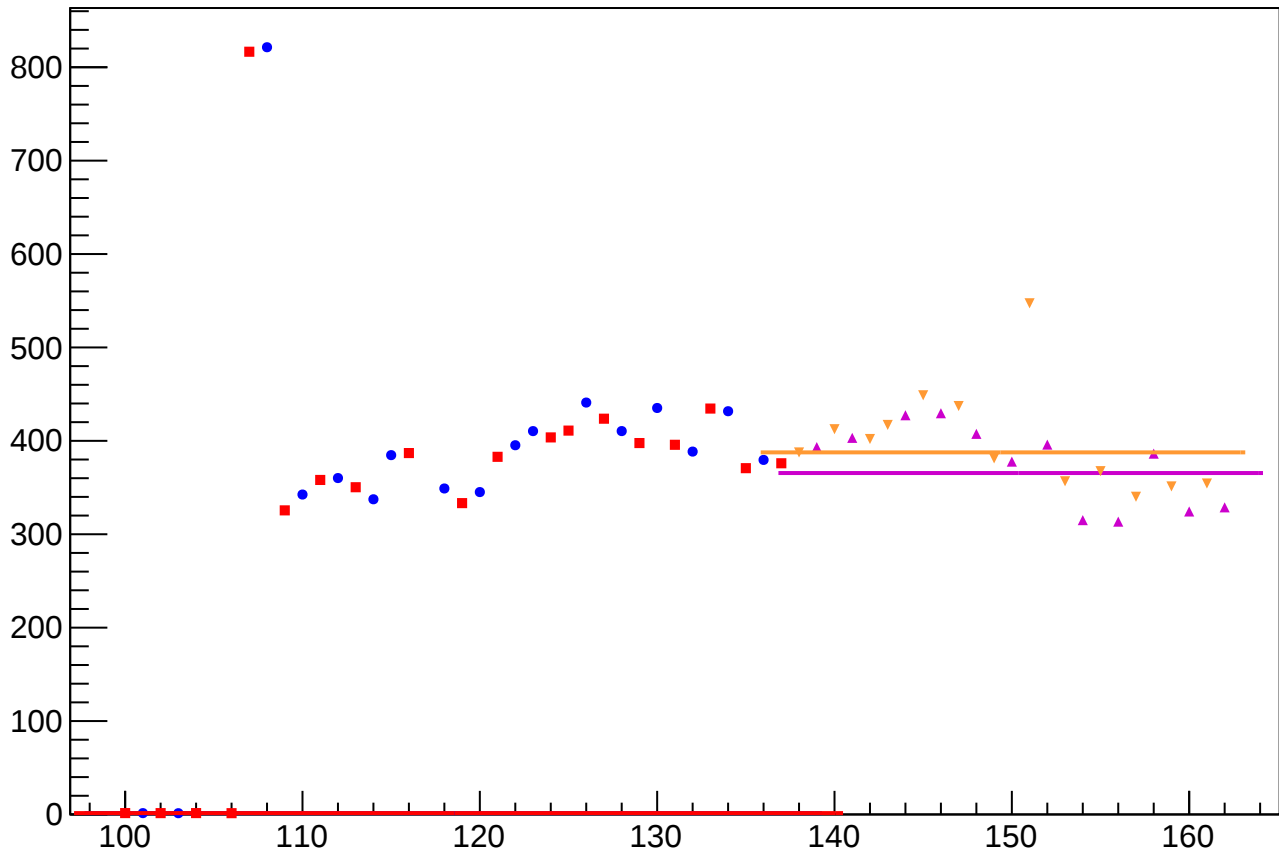
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.132 ± 1.736 χ^2/NDF : 19.8/28

Out: 1.313 ± 1.622 χ^2/NDF : 20.3/31

All: 0.640 ± 1.185 χ^2/NDF : 40.5/60

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 387.659+/-0.089 χ^2/NDF : 274219.9/12

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 365.537+/-0.084 χ^2/NDF : 255192.7/11

Left: 376.062+/-0.061 χ^2/NDF : 562110.3/24

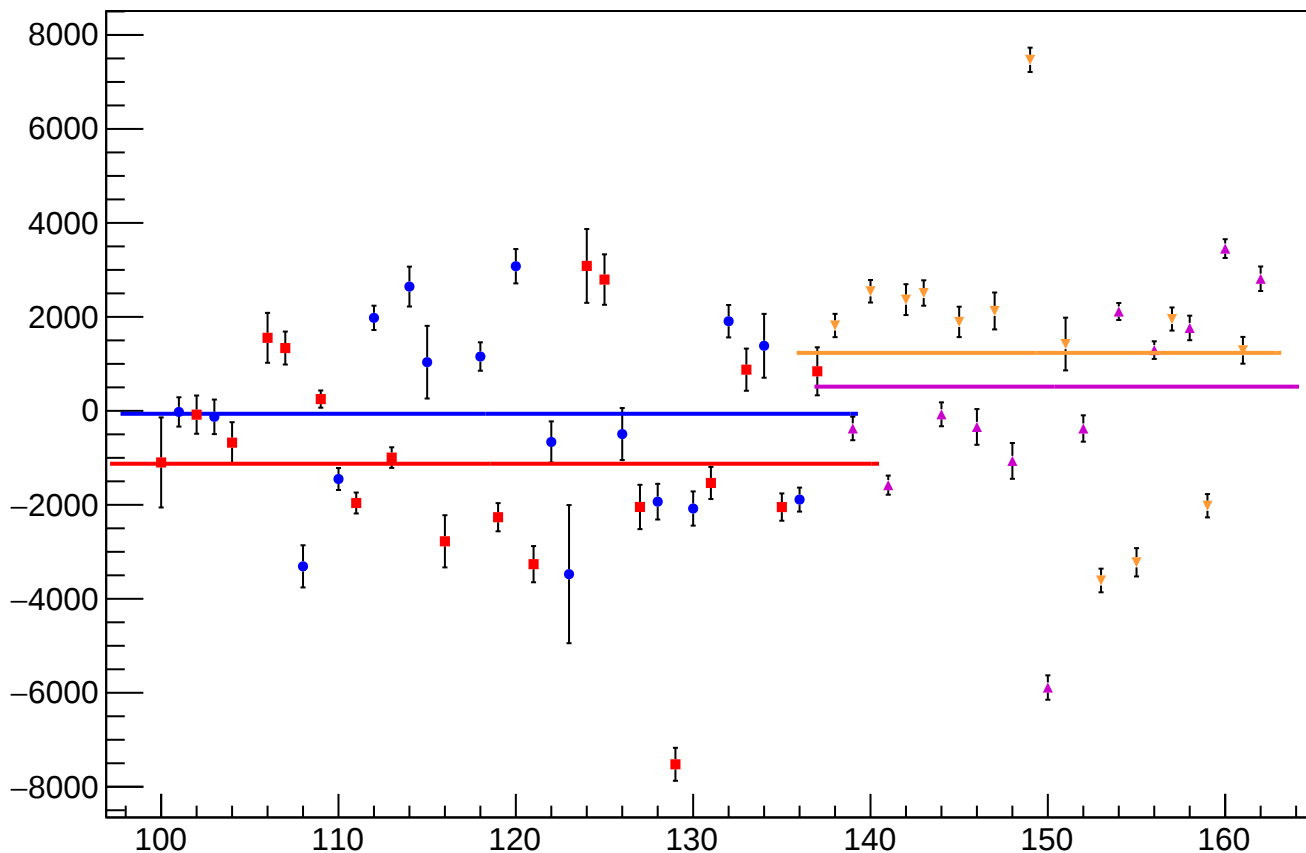
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.530+/-0.001 χ^2/NDF : 29826398.9/28

Out: 1.516+/-0.001 χ^2/NDF : 30162874.0/31

All: 1.522+/-0.001 χ^2/NDF : 59989343.1/60

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 1234.177 ± 78.402 $\chi^2/\text{NDF}: 1430.7/12$

Right Out: -1125.437 ± 78.370 $\chi^2/\text{NDF}: 671.2/18$

Left In: 515.241 ± 68.936 $\chi^2/\text{NDF}: 1178.3/11$

Left: 828.711 ± 51.770 $\chi^2/\text{NDF}: 2656.5/24$

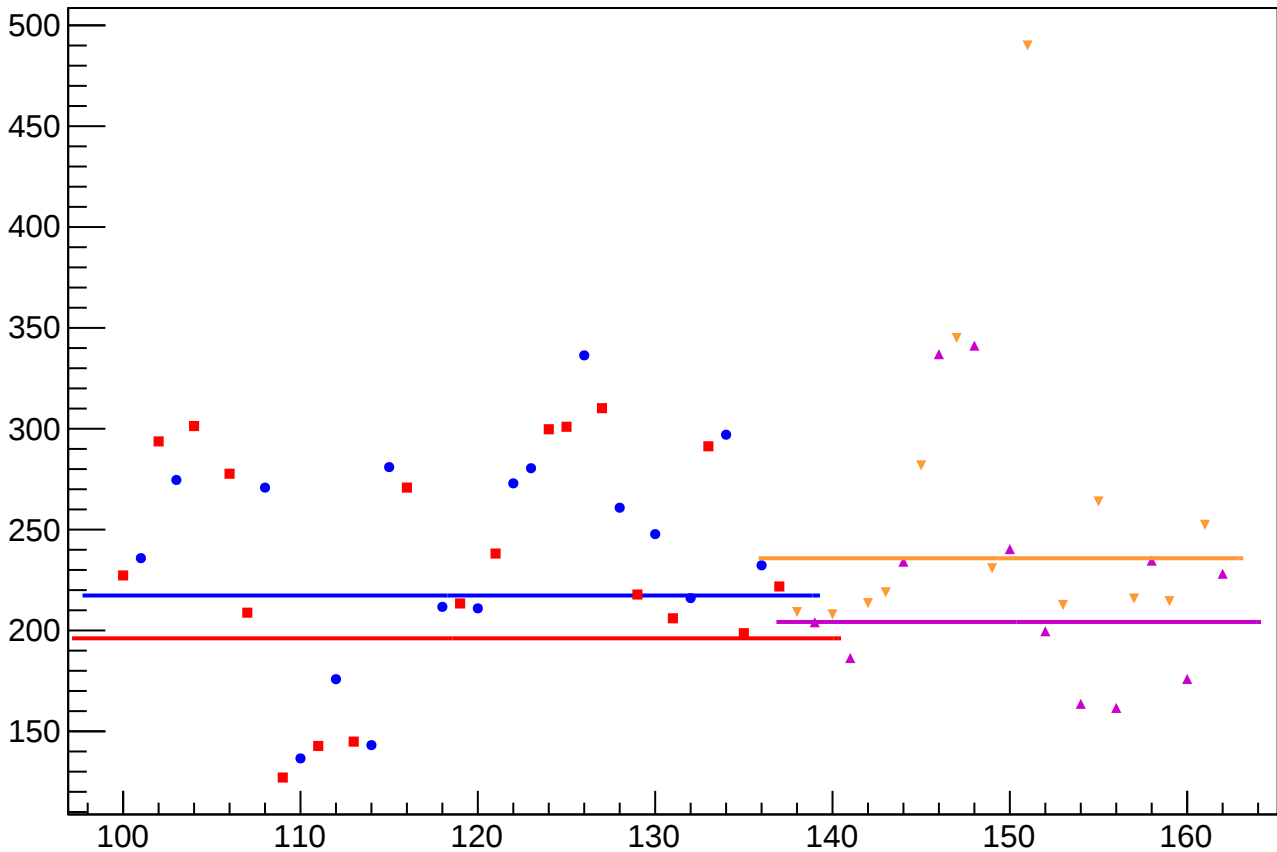
Right: -651.694 ± 58.355 $\chi^2/\text{NDF}: 1187.1/35$

In: 293.868 ± 54.132 $\chi^2/\text{NDF}: 1639.1/28$

Out: 53.885 ± 55.427 $\chi^2/\text{NDF}: 2555.0/31$

All: 176.714 ± 38.727 $\chi^2/\text{NDF}: 4203.8/60$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 235.801 $\pm$ 0.055 χ^2 /NDF: 742940.2/12

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 204.209 $\pm$ 0.049 χ^2 /NDF: 872385.6/11

Left: 217.984 $\pm$ 0.037 χ^2 /NDF: 1798478.3/24

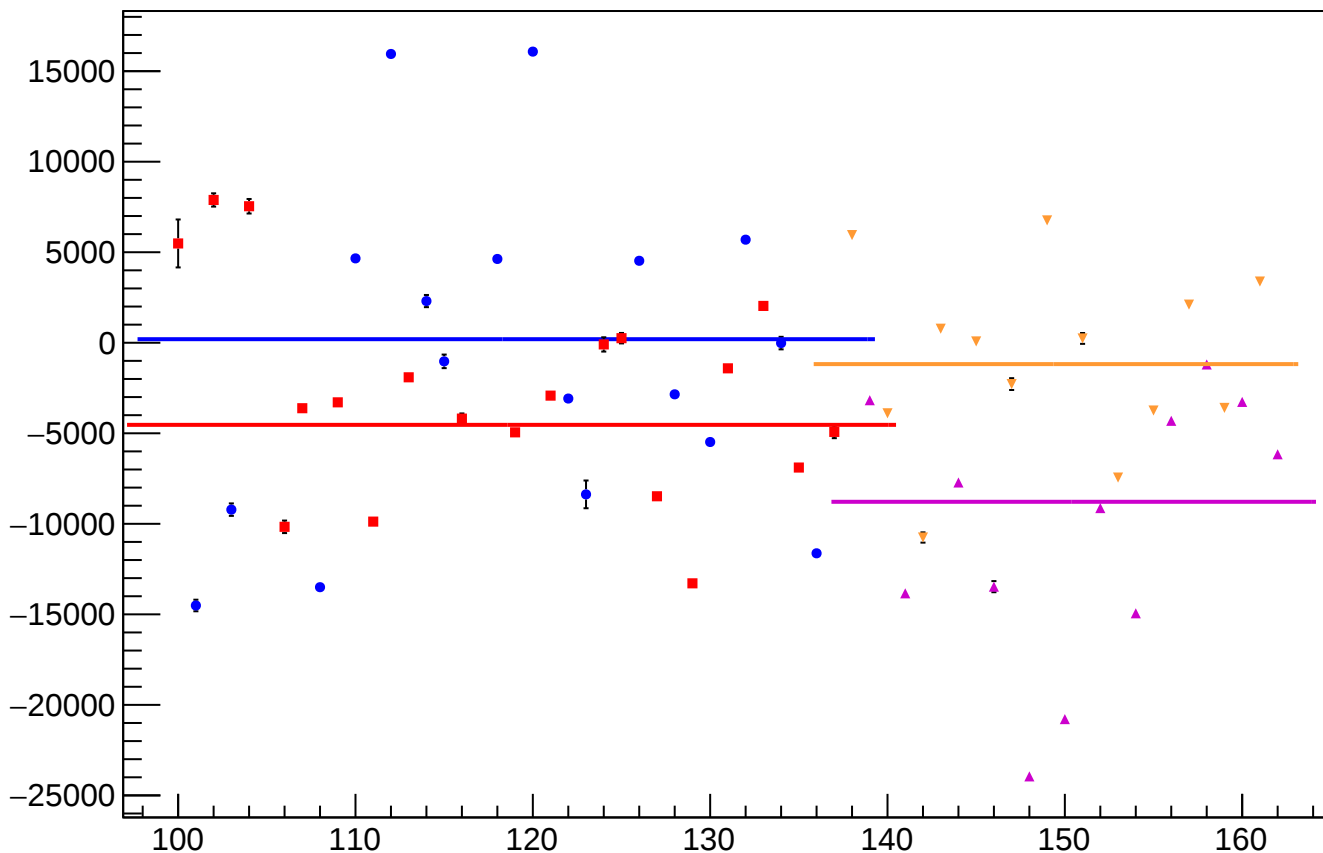
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 209.239 $\pm$ 0.038 χ^2 /NDF: 1552887.9/28

Out: 215.945 $\pm$ 0.039 χ^2 /NDF: 2190134.4/31

All: 212.513 $\pm$ 0.027 χ^2 /NDF: 3758005.8/60

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -1179.044 $\pm$ 55.268 χ^2/NDF : 7308.1/12

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -8783.759 $\pm$ 56.371 χ^2/NDF : 14007.7/11

Left: -4906.263 $\pm$ 39.465 χ^2/NDF : 30595.2/24

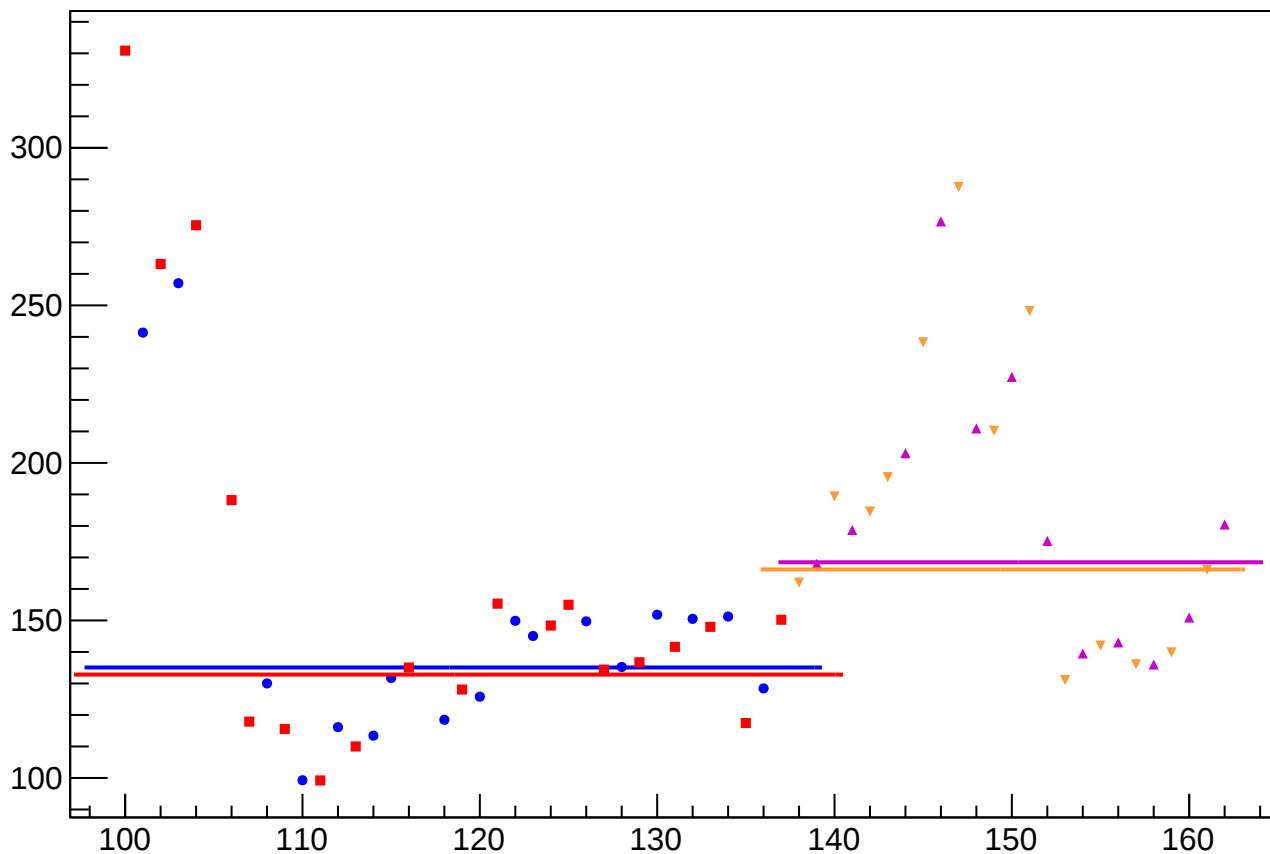
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4166.349 $\pm$ 39.293 χ^2/NDF : 57715.6/28

Out: -2943.967 $\pm$ 38.049 χ^2/NDF : 16723.9/31

All: -3535.515 $\pm$ 27.334 χ^2/NDF : 74939.0/60

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 166.193 $\pm$ 0.039 χ^2 /NDF: 988562.8/12

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 168.469 $\pm$ 0.040 χ^2 /NDF: 720135.1/11

Left: 167.308 $\pm$ 0.028 χ^2 /NDF: 1710359.7/24

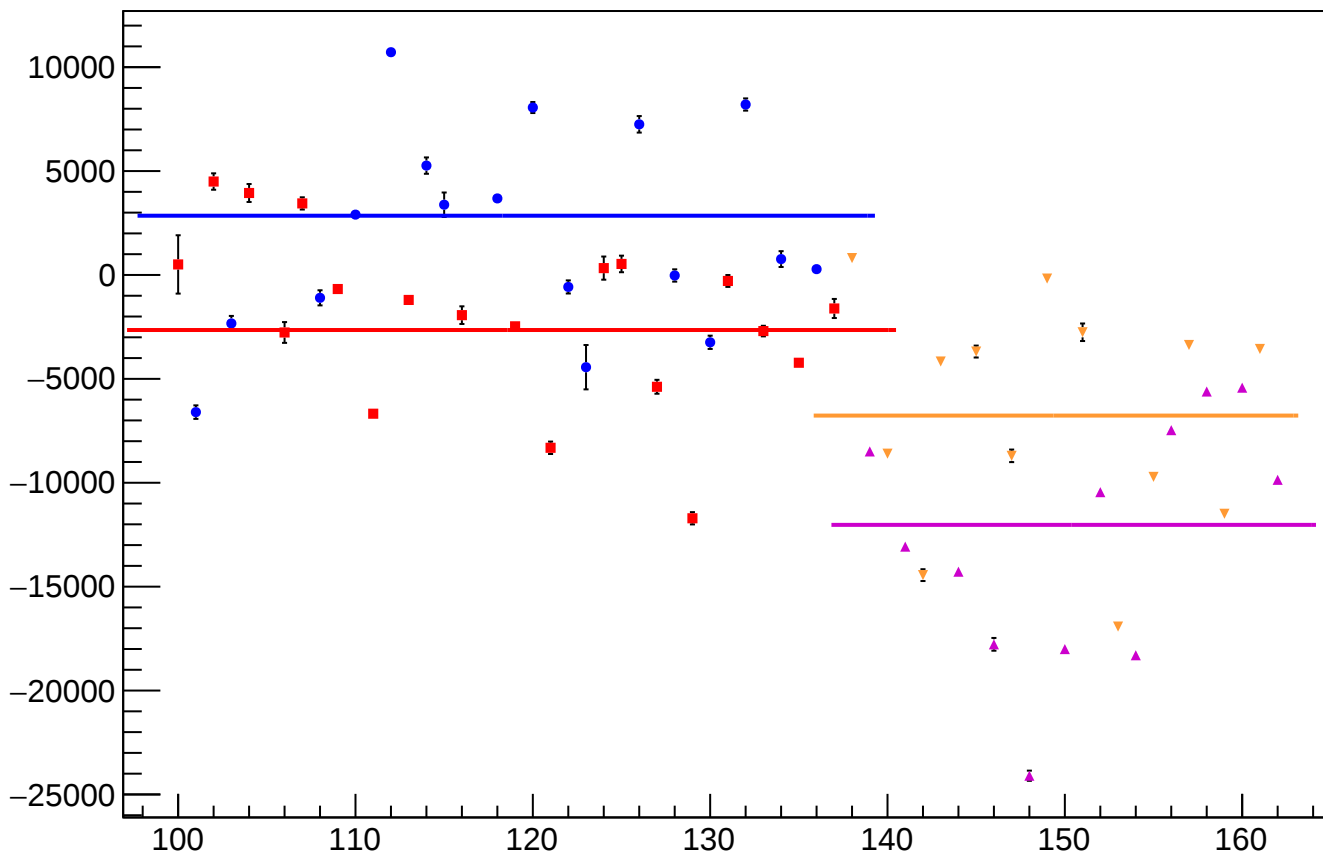
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 151.298 $\pm$ 0.028 χ^2 /NDF: 1739759.0/28

Out: 148.636 $\pm$ 0.027 χ^2 /NDF: 2203447.3/31

All: 149.924 $\pm$ 0.019 χ^2 /NDF: 3947944.1/60

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 ± 70.753 $\chi^2/\text{NDF}: 4178.1/16$

Left Out: -6767.050 ± 63.934 $\chi^2/\text{NDF}: 7402.4/12$

Right Out: -2649.142 ± 65.731 $\chi^2/\text{NDF}: 3175.7/18$

Left In: -12026.439 ± 56.755 $\chi^2/\text{NDF}: 9355.8/11$

Left: -9708.457 ± 42.444 $\chi^2/\text{NDF}: 20542.9/24$

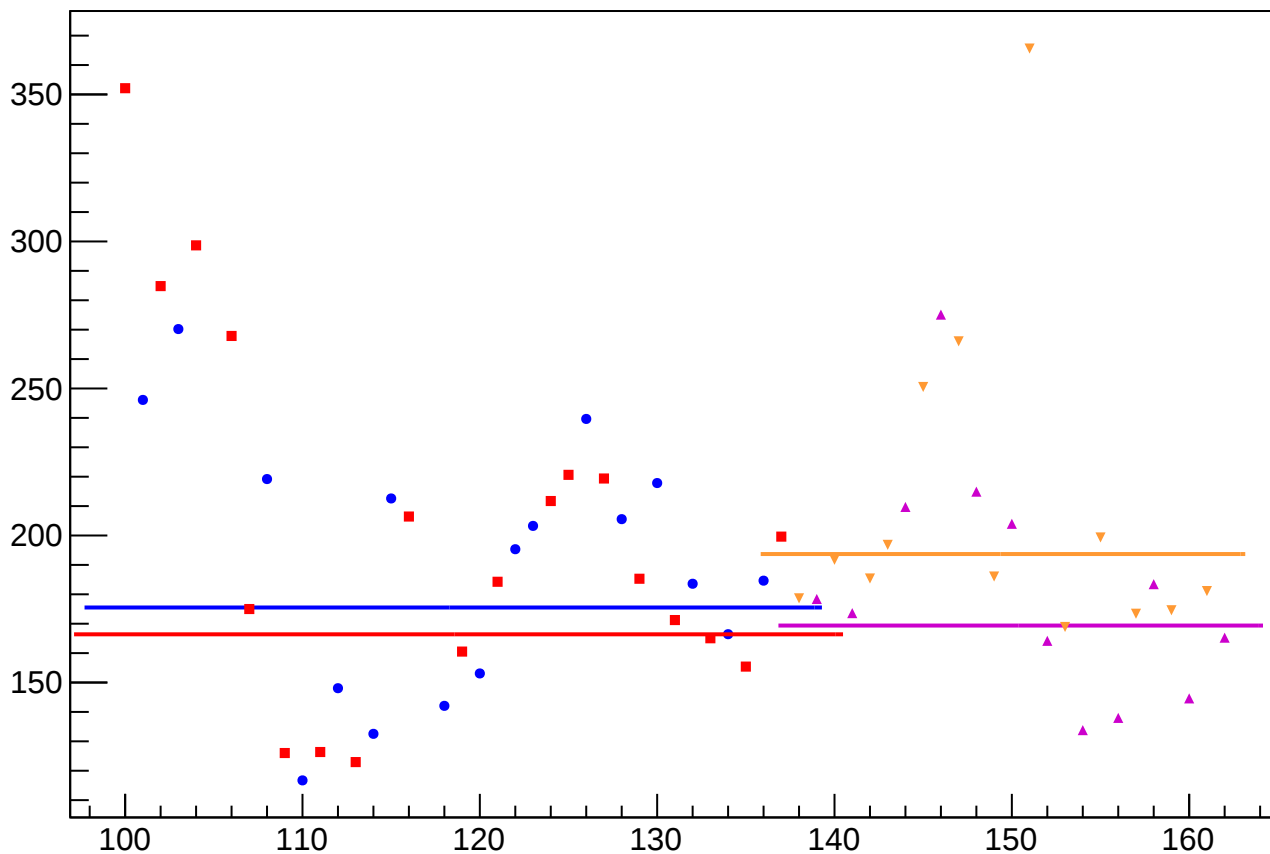
Right: -100.998 ± 48.156 $\chi^2/\text{NDF}: 10597.9/35$

In: -6201.355 ± 44.272 $\chi^2/\text{NDF}: 40438.7/28$

Out: -4765.159 ± 45.830 $\chi^2/\text{NDF}: 12594.9/31$

All: -5508.087 ± 31.842 $\chi^2/\text{NDF}: 53541.6/60$

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 193.695+/-0.045 χ^2/NDF : 619544.0/12

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 169.375+/-0.040 χ^2/NDF : 675357.8/11

Left: 180.094+/-0.030 χ^2/NDF : 1456749.7/24

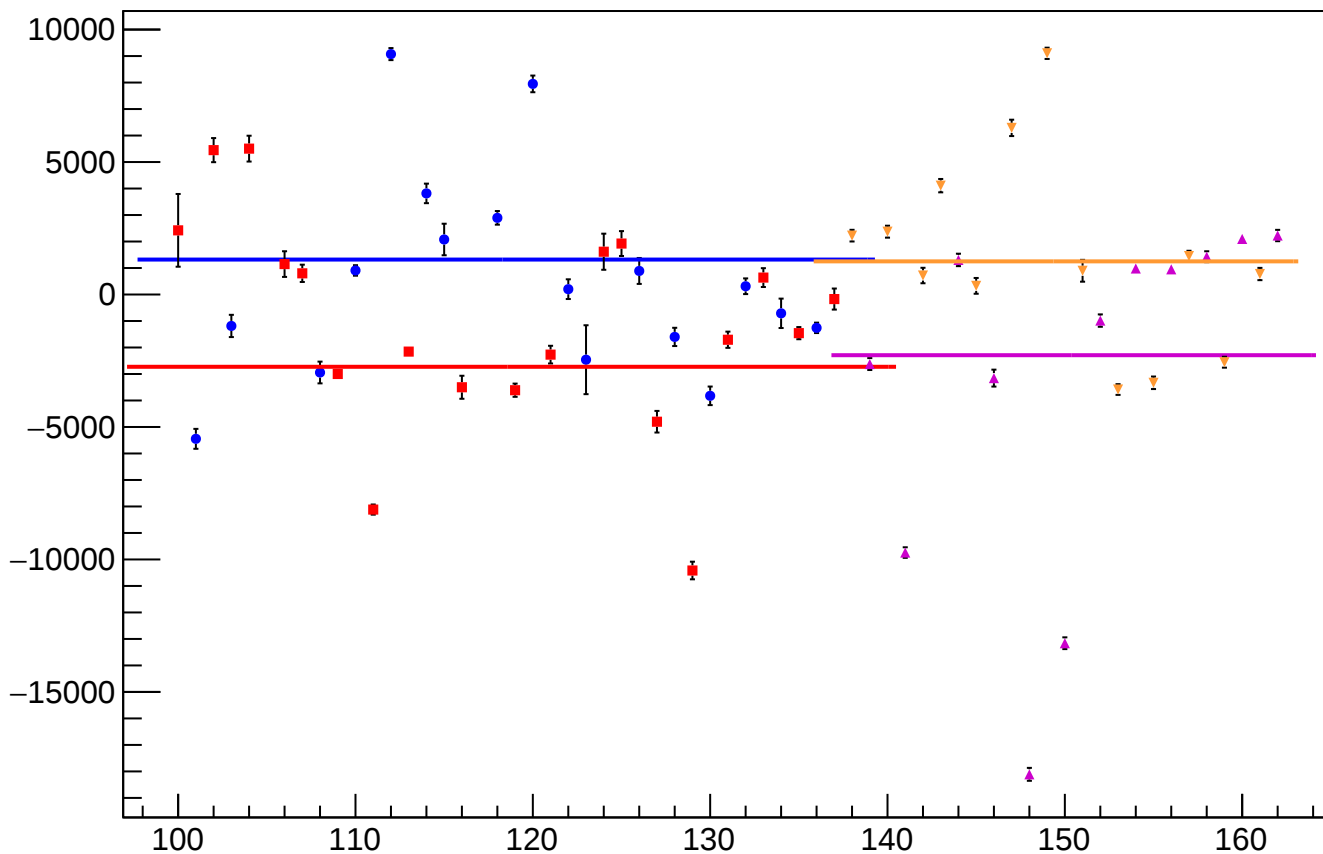
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 171.779+/-0.031 χ^2/NDF : 1374161.7/28

Out: 180.422+/-0.032 χ^2/NDF : 1726385.6/31

All: 175.951+/-0.023 χ^2/NDF : 3137345.9/60

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1250.896+/-66.362 χ^2/NDF : 3103.5/12

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -2290.621+/-58.822 χ^2/NDF : 10568.5/11

Left: -732.411+/-44.019 χ^2/NDF : 15267.0/24

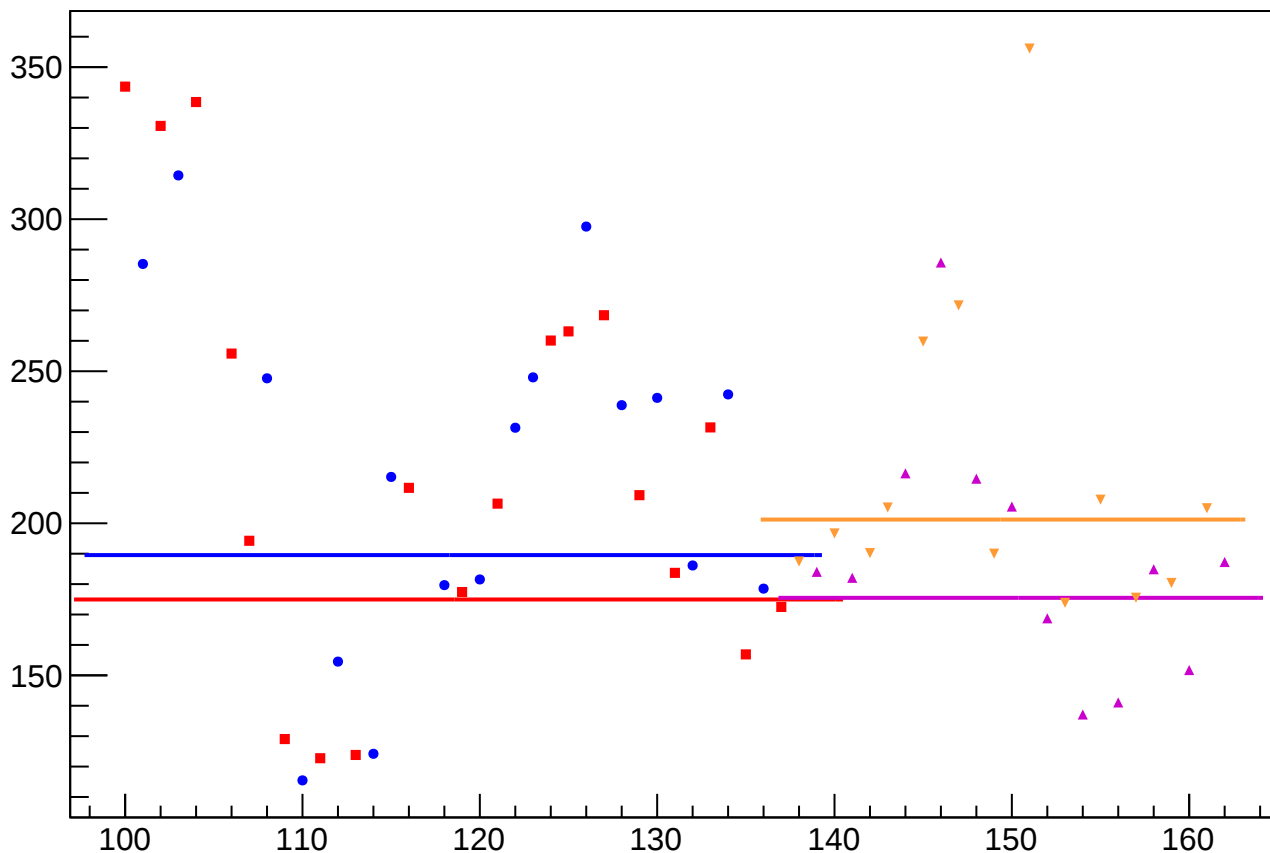
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -963.593+/-46.776 χ^2/NDF : 14619.9/28

Out: -631.545+/-48.169 χ^2/NDF : 7300.1/31

All: -802.442+/-33.557 χ^2/NDF : 21944.5/60

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 +/- 0.055 χ^2/NDF : 980744.6/16

Left Out: 201.227 +/- 0.047 χ^2/NDF : 573454.3/12

Right Out: 174.944 +/- 0.050 χ^2/NDF : 1297106.6/18

Left In: 175.486 +/- 0.042 χ^2/NDF : 660090.4/11

Left: 186.812 +/- 0.031 χ^2/NDF : 1402072.9/24

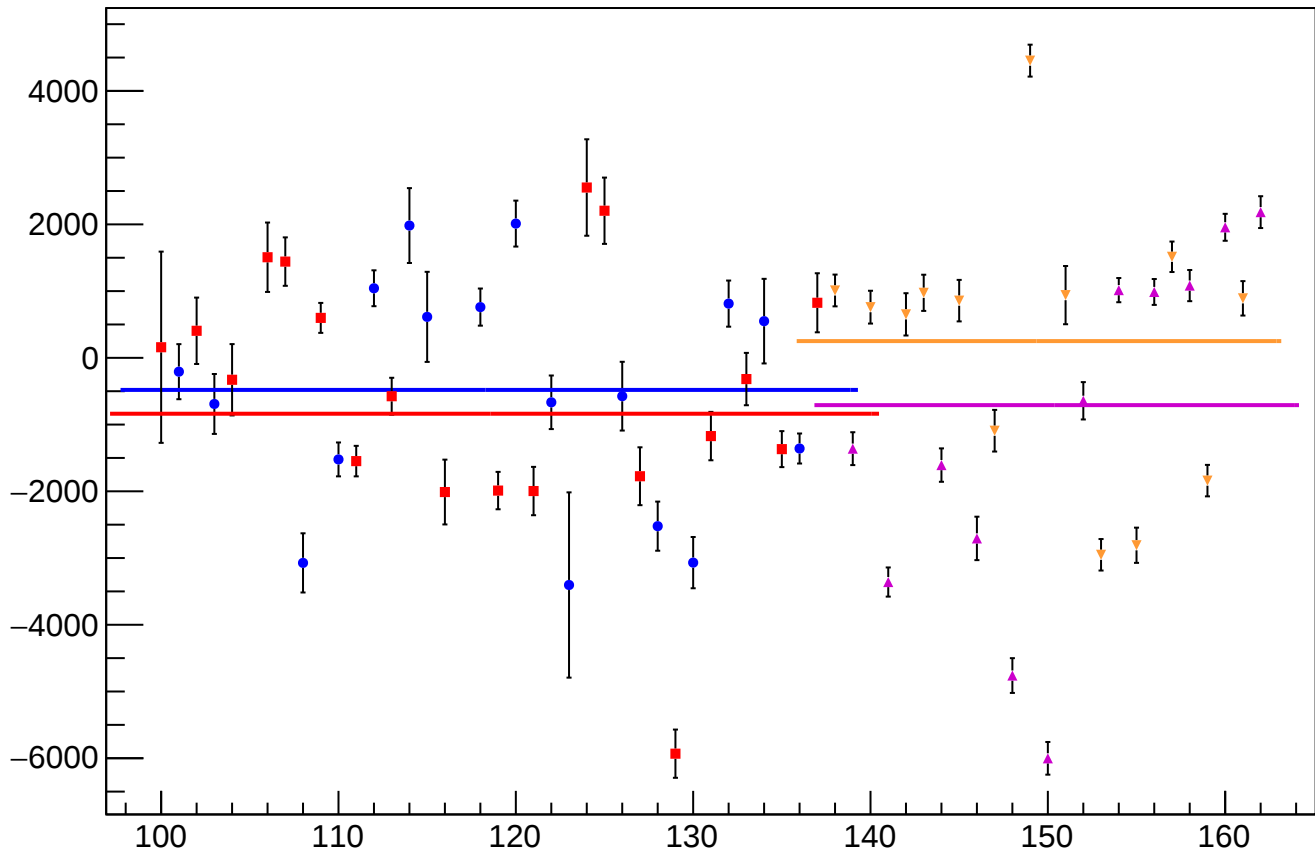
Right: 181.540 +/- 0.037 χ^2/NDF : 2317127.7/35

In: 180.654 +/- 0.033 χ^2/NDF : 1682838.0/28

Out: 188.792 +/- 0.034 χ^2/NDF : 2018999.4/31

All: 184.604 +/- 0.024 χ^2/NDF : 3731215.4/60

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Left: -274.278 $\pm$ 49.383 χ^2/NDF : 2344.4/24

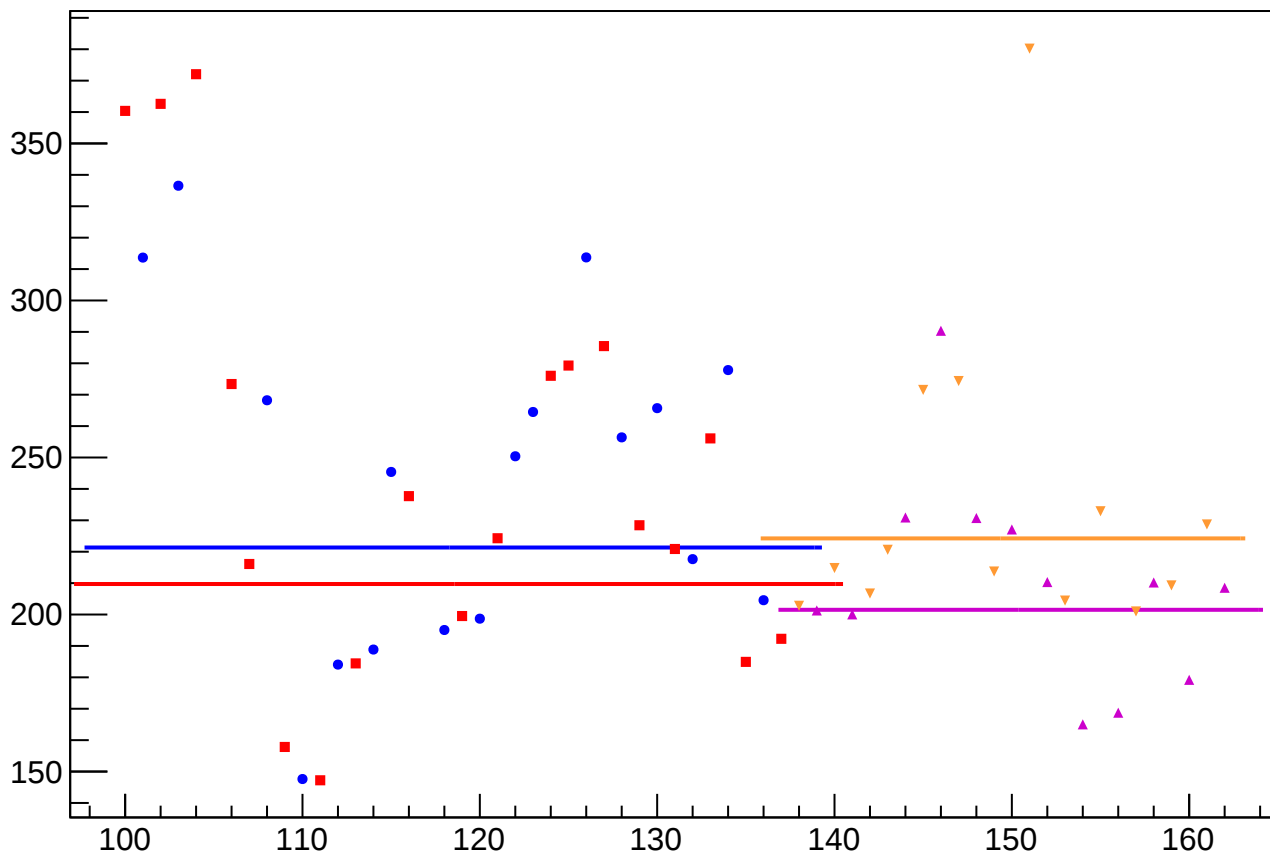
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -626.118 $\pm$ 53.321 χ^2/NDF : 1755.5/28

Out: -231.589 $\pm$ 54.763 χ^2/NDF : 1323.1/31

All: -434.115 $\pm$ 38.203 χ^2/NDF : 3105.2/60

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.239 $\pm$ 0.052 χ^2 /NDF: 428532.6/12

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 201.505 $\pm$ 0.047 χ^2 /NDF: 392594.3/11

Left: 211.795 $\pm$ 0.035 χ^2 /NDF: 926143.5/24

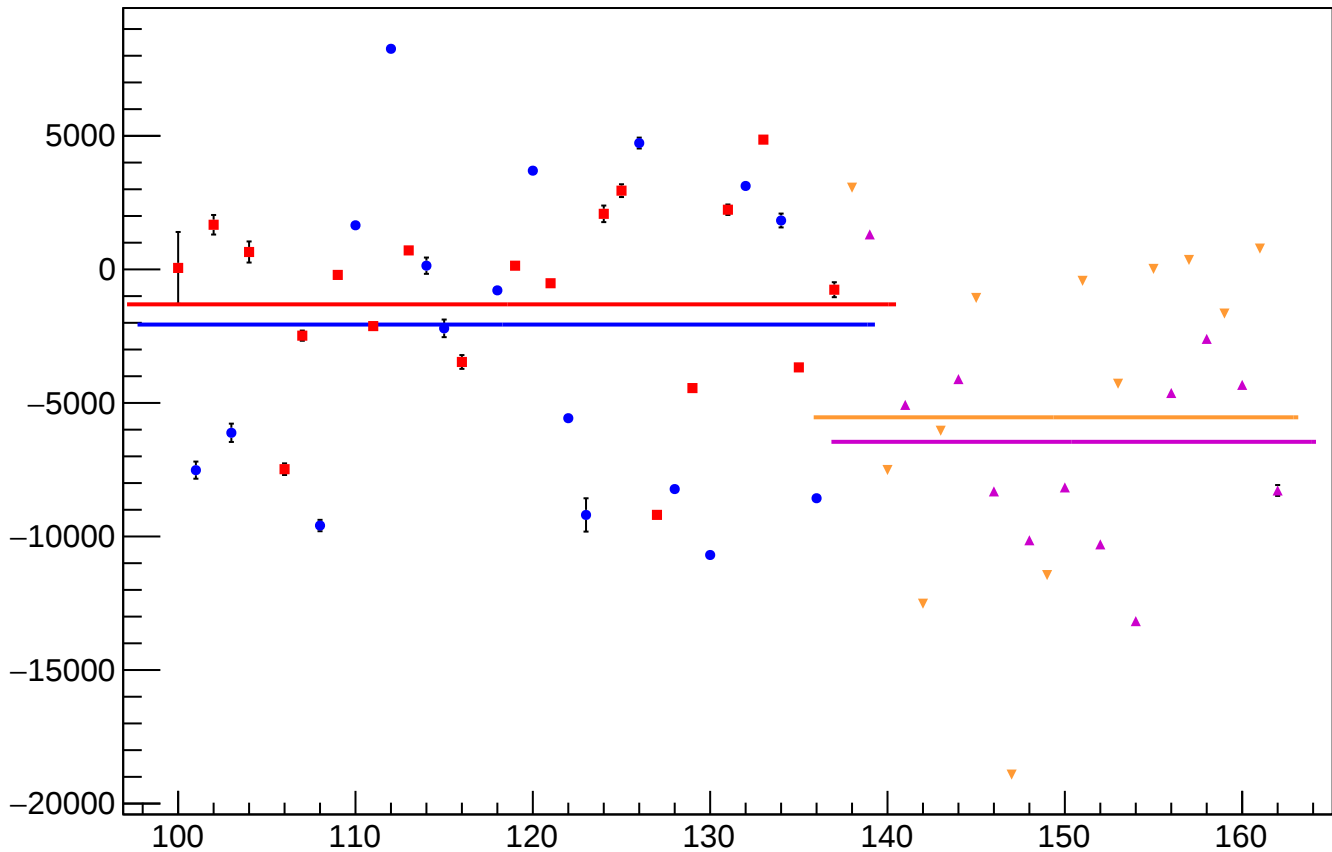
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 208.683 $\pm$ 0.038 χ^2 /NDF: 1102204.3/28

Out: 217.800 $\pm$ 0.039 χ^2 /NDF: 1347161.9/31

All: 213.120 $\pm$ 0.027 χ^2 /NDF: 2477822.0/60

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -5537.962+/-39.110 χ^2/NDF : 28139.2/12

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -6455.789+/-39.960 χ^2/NDF : 8747.7/11

Left: -5987.017+/-27.951 χ^2/NDF : 37156.3/24

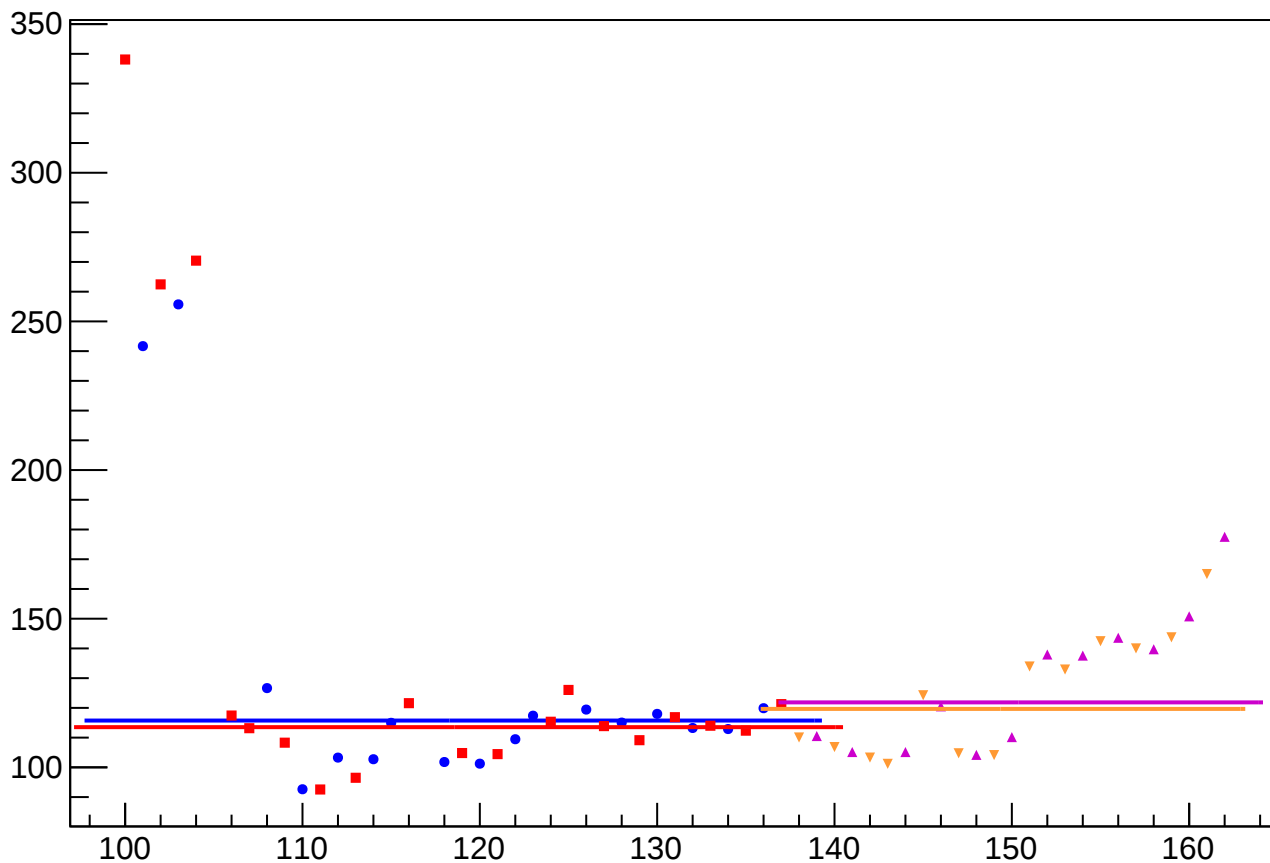
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4628.206+/-30.531 χ^2/NDF : 30306.2/28

Out: -3717.990+/-29.520 χ^2/NDF : 39065.8/31

All: -4157.776+/-21.222 χ^2/NDF : 69831.4/60

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 119.657+/-0.028 χ^2/NDF : 436390.0/12

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 121.851+/-0.028 χ^2/NDF : 476586.7/11

Left: 120.731+/-0.020 χ^2/NDF : 916056.9/24

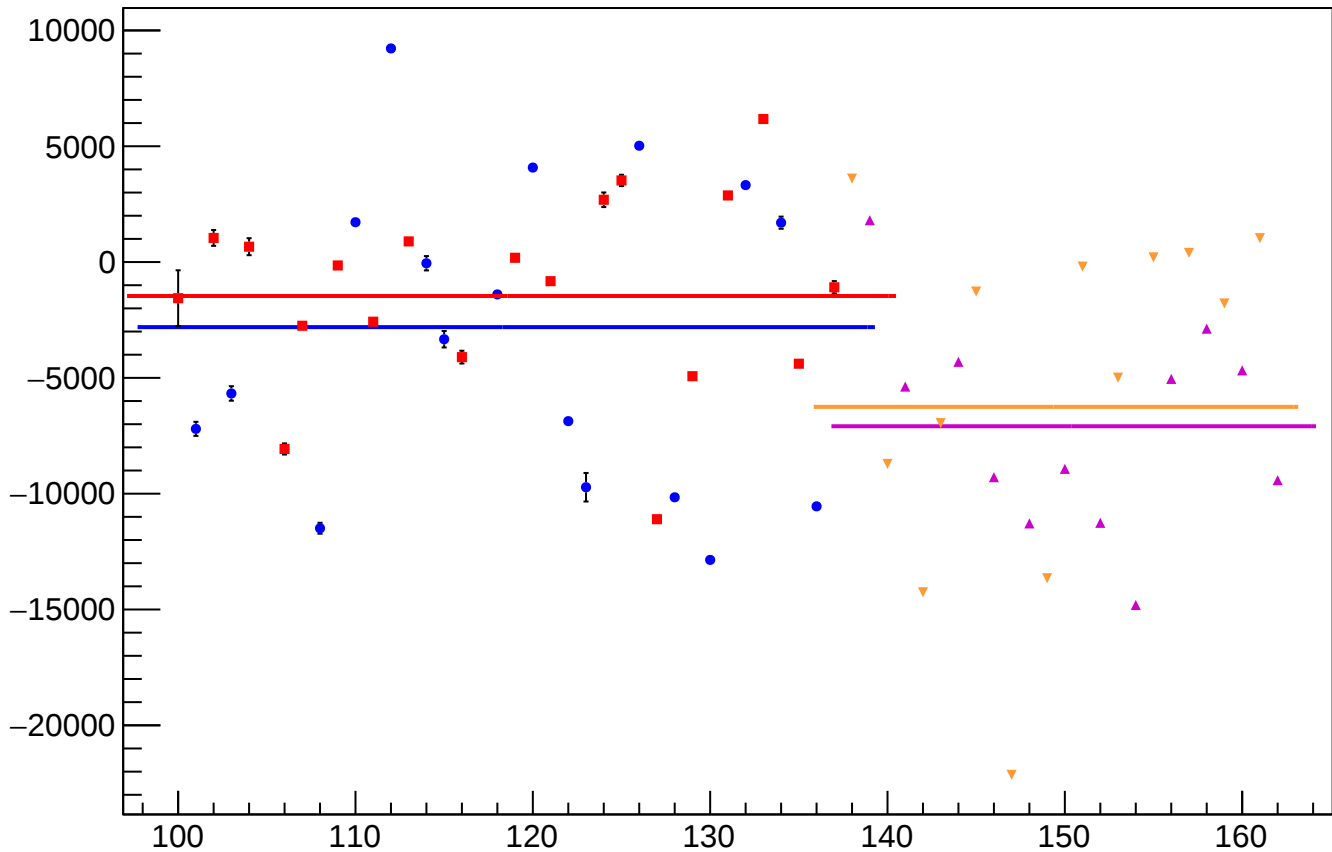
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 119.308+/-0.022 χ^2/NDF : 1240073.3/28

Out: 117.016+/-0.021 χ^2/NDF : 1254228.3/31

All: 118.123+/-0.015 χ^2/NDF : 2500126.7/60

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6251.194+/-41.555 χ^2/NDF :33963.7/12

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -7088.515+/-42.438 χ^2/NDF :10315.0/11

Left: -6661.057+/-29.691 χ^2/NDF : 44477.4/24

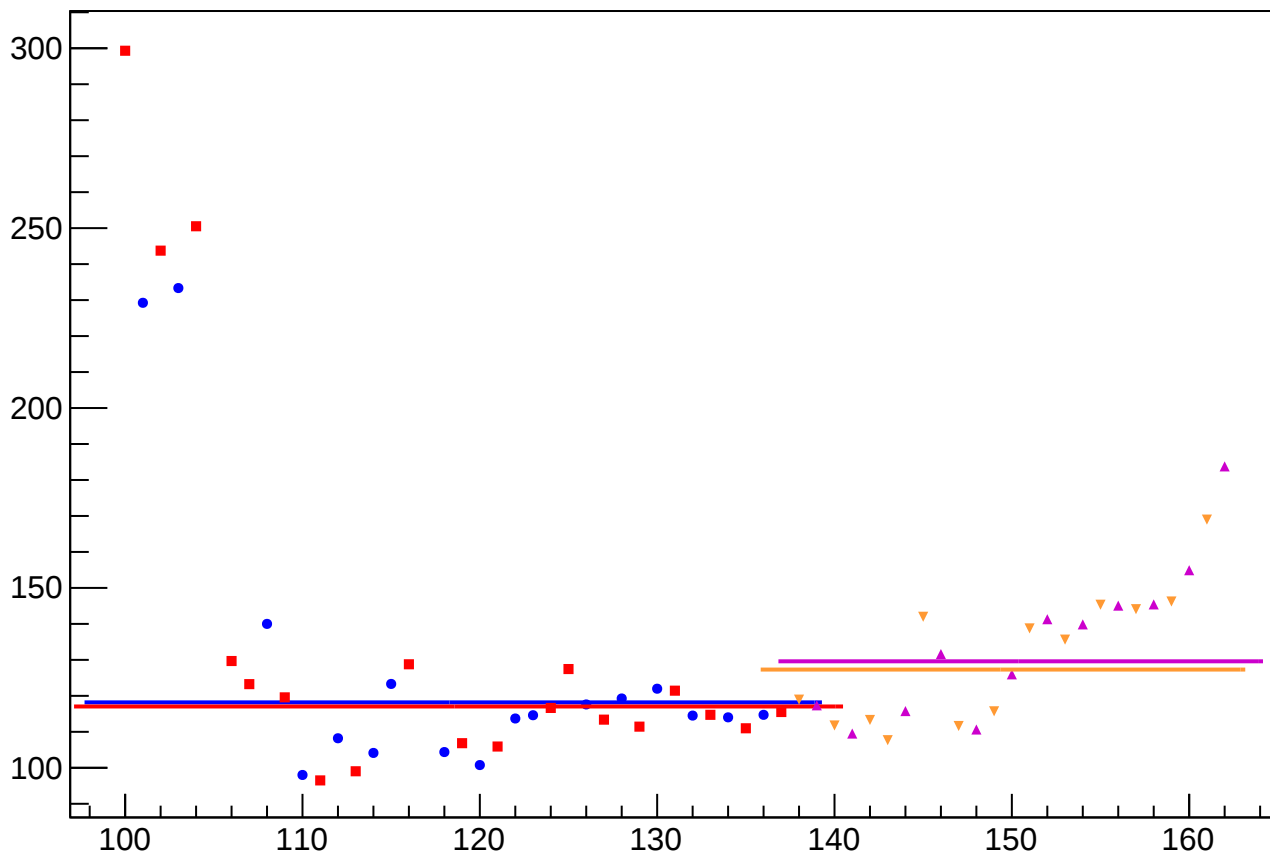
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5223.471+/-31.876 χ^2/NDF :36009.9/28

Out: -4120.701+/-30.954 χ^2/NDF :47873.4/31

All: -4655.908+/-22.206 χ^2/NDF : 84499.3/60

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2 /NDF: 636252.0/16

Left Out: 127.305 $\pm$ 0.029 χ^2 /NDF:337748.8/12

Right Out: 117.046 $\pm$ 0.033 χ^2 /NDF: 690635.5/18

Left In: 129.601 $\pm$ 0.030 χ^2 /NDF:372491.3/11

Left: 128.429 $\pm$ 0.021 χ^2 /NDF: 713228.1/24

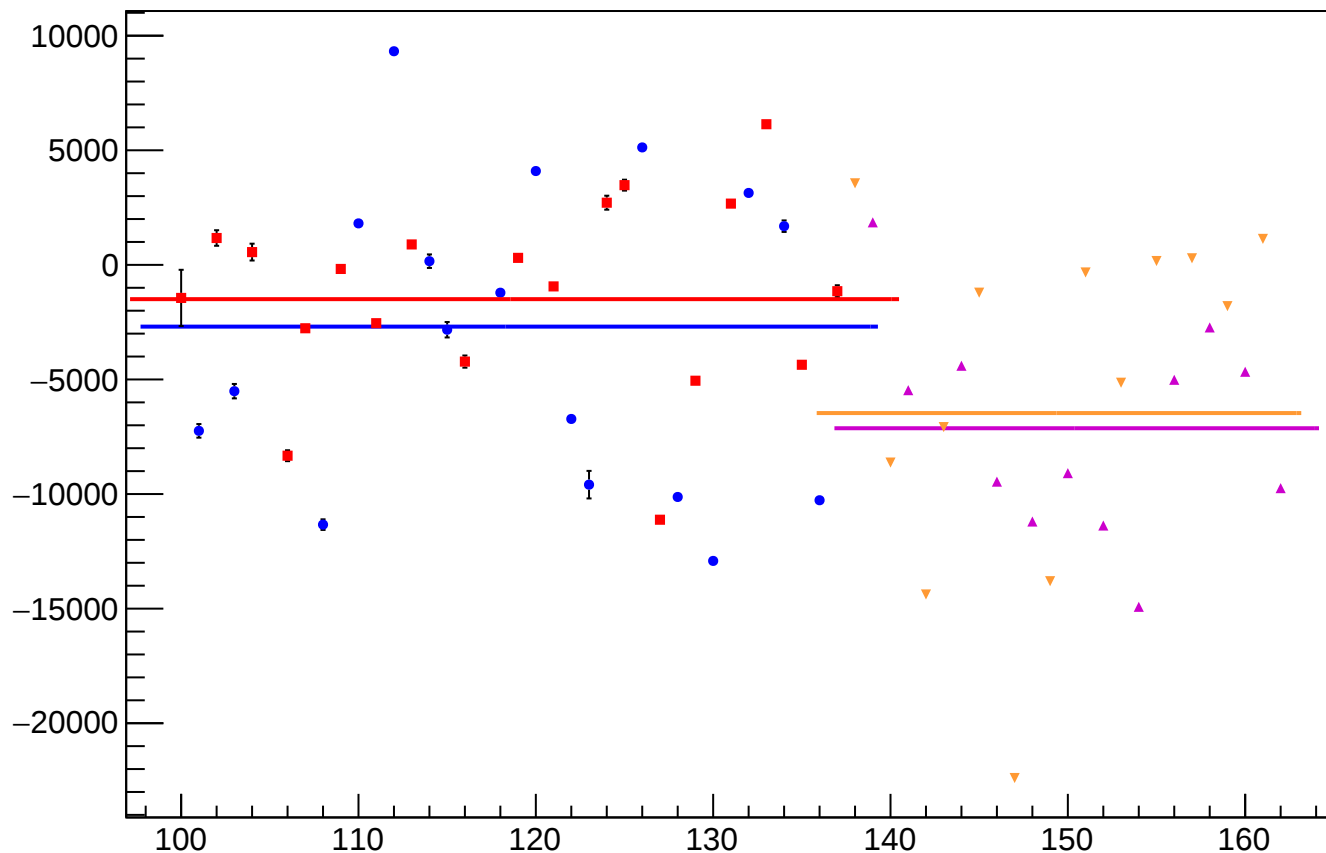
Right: 117.594 $\pm$ 0.024 χ^2 /NDF: 1327469.8/35

In: 124.627 $\pm$ 0.023 χ^2 /NDF:1071780.8/28

Out: 122.738 $\pm$ 0.022 χ^2 /NDF:1082650.3/31

All: 123.655 $\pm$ 0.016 χ^2 /NDF: 2158045.5/60

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6466.227+/-40.489 χ^2/NDF : 37125.2/12

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -7128.610+/-41.295 χ^2/NDF : 11122.1/11

Left: -6790.886+/-28.911 χ^2/NDF : 48378.5/24

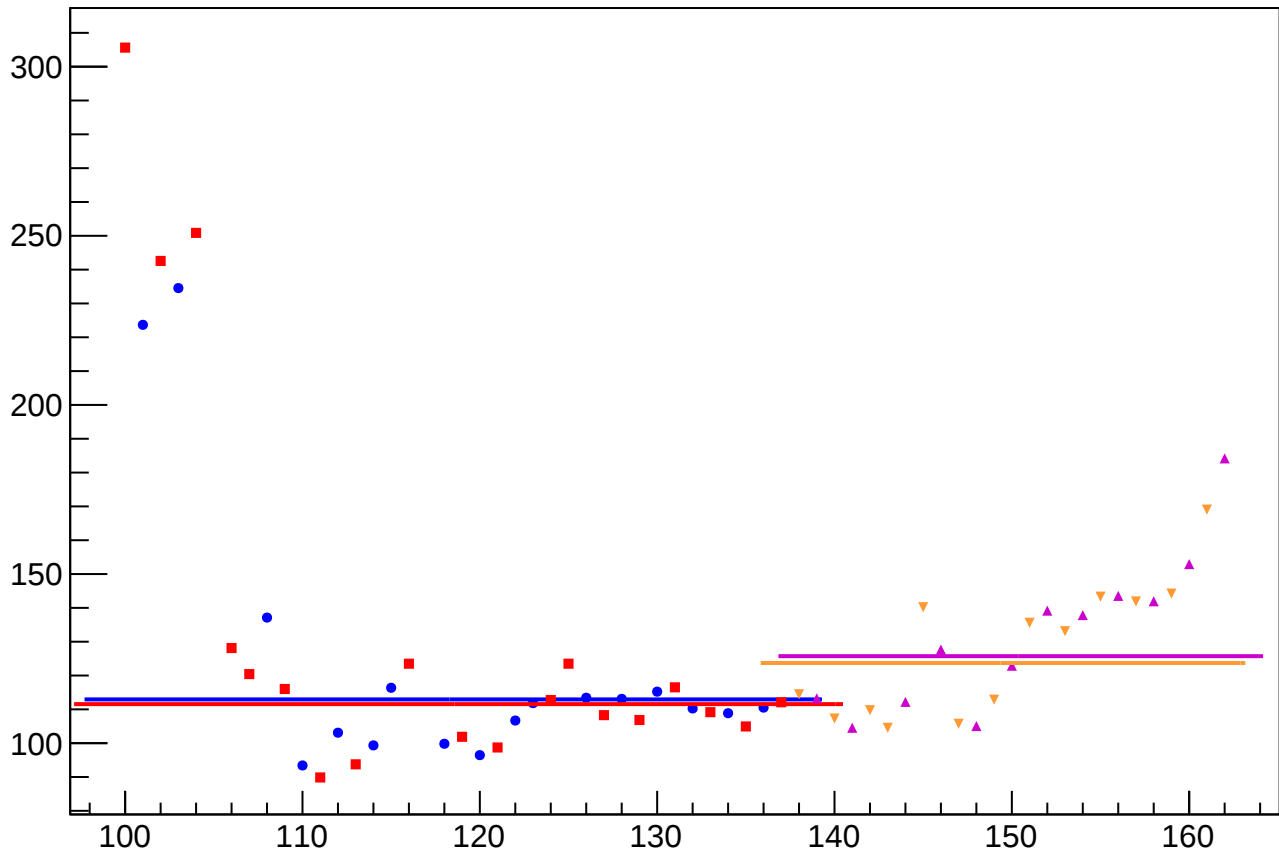
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5166.183+/-30.832 χ^2/NDF : 39085.4/28

Out: -4211.996+/-29.931 χ^2/NDF : 52677.2/31

All: -4674.939+/-21.476 χ^2/NDF : 92255.6/60

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2/NDF : 680283.1/16

Left Out: 123.704 $\pm$ 0.029 χ^2/NDF : 399782.0/12

Right Out: 111.544 $\pm$ 0.031 χ^2/NDF : 765502.6/18

Left In: 125.721 $\pm$ 0.029 χ^2/NDF : 445148.5/11

Left: 124.693 $\pm$ 0.020 χ^2/NDF : 847363.3/24

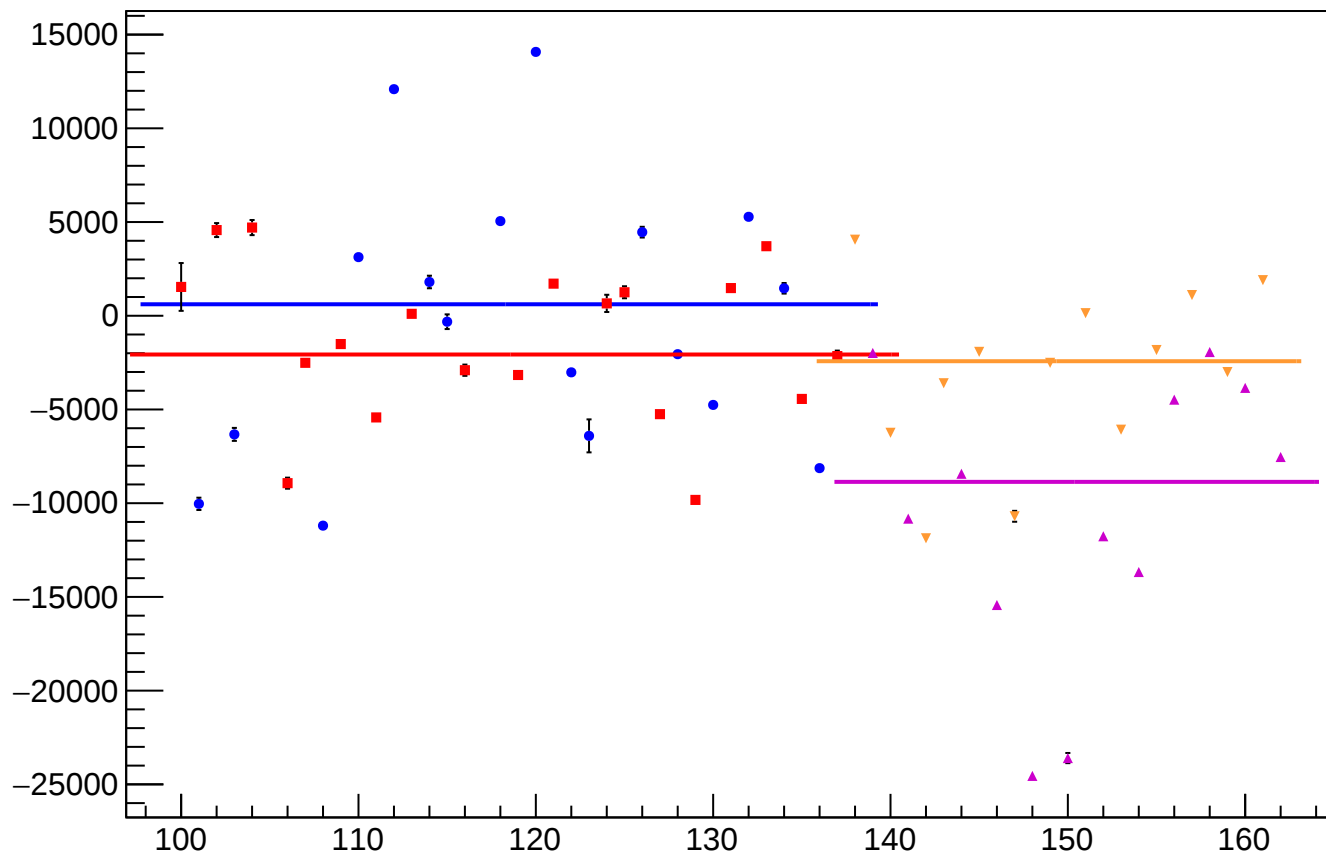
Right: 112.213 $\pm$ 0.023 χ^2/NDF : 1446732.2/35

In: 120.065 $\pm$ 0.022 χ^2/NDF : 1210215.0/28

Out: 118.189 $\pm$ 0.021 χ^2/NDF : 1247108.4/31

All: 119.099 $\pm$ 0.015 χ^2/NDF : 2461135.6/60

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2425.073 ± 49.976 $\chi^2/\text{NDF}: 6640.8/12$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -8861.955 ± 52.100 $\chi^2/\text{NDF}: 13903.7/11$

Left: -5509.662 ± 36.066 $\chi^2/\text{NDF}: 28494.1/24$

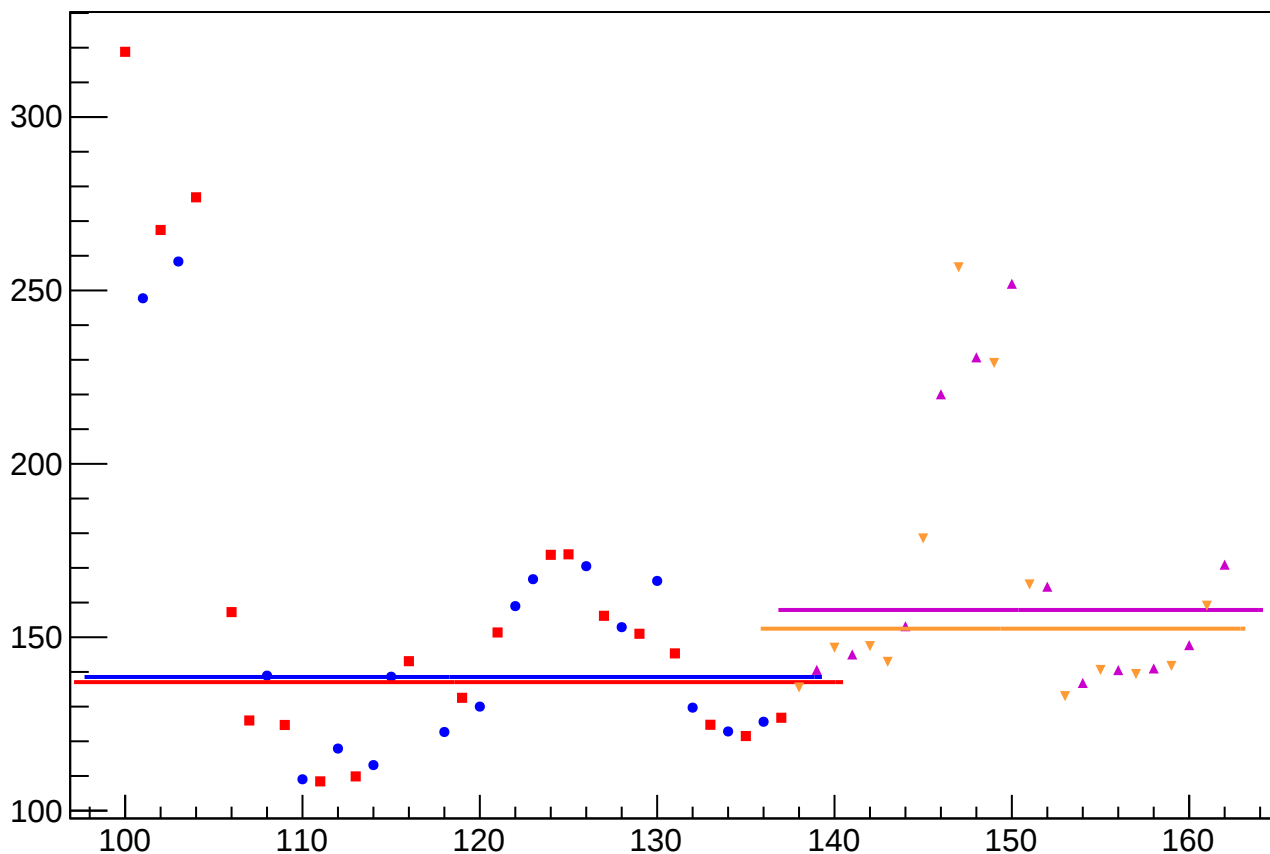
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4471.246 ± 38.164 $\chi^2/\text{NDF}: 47472.8/28$

Out: -2259.833 ± 36.657 $\chi^2/\text{NDF}: 11307.2/31$

All: -3321.015 ± 26.437 $\chi^2/\text{NDF}: 60526.4/60$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 152.472 $\pm$ 0.035 χ^2 /NDF: 578515.4/12

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 157.870 $\pm$ 0.037 χ^2 /NDF: 663894.3/11

Left: 155.059 $\pm$ 0.026 χ^2 /NDF: 1253590.5/24

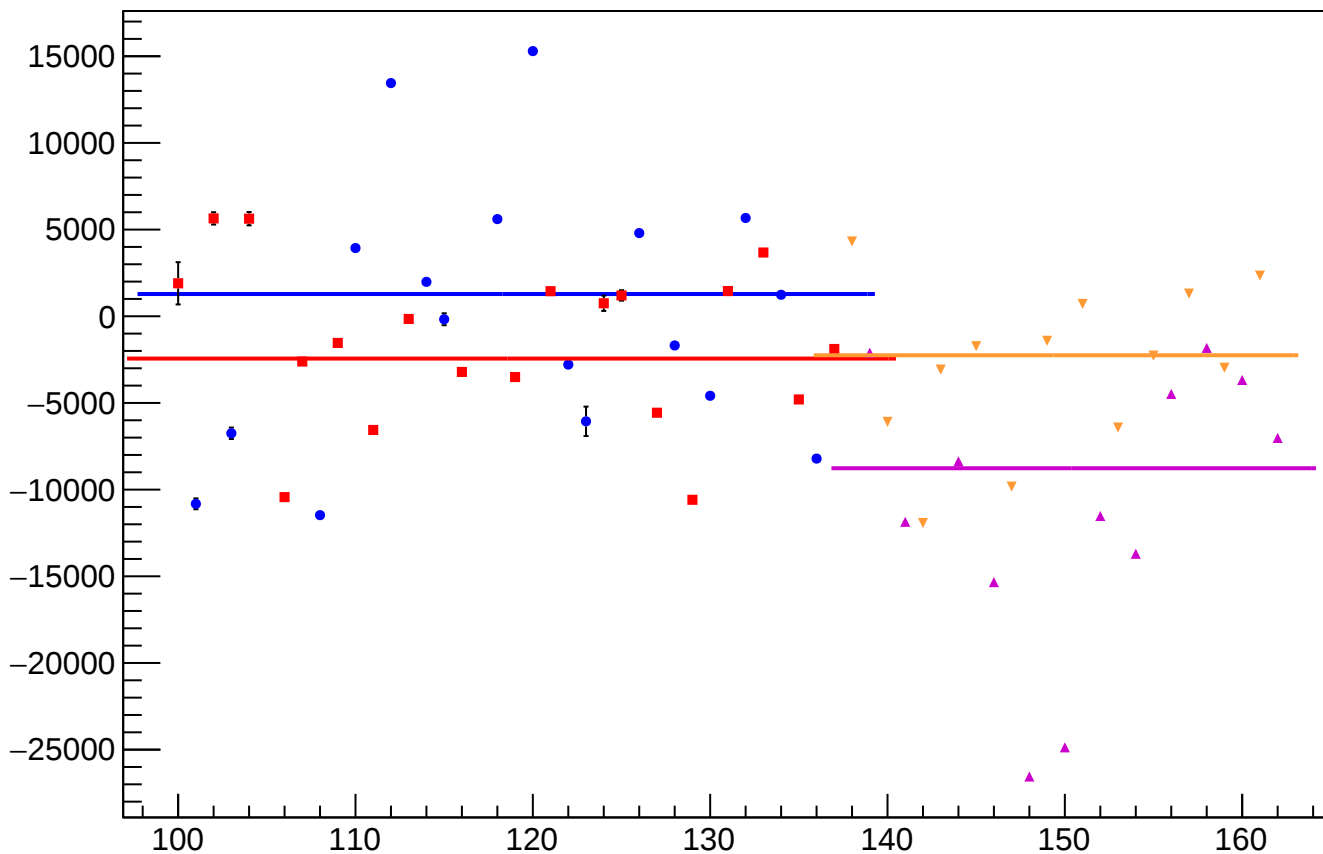
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 148.913 $\pm$ 0.027 χ^2 /NDF: 1460393.6/28

Out: 145.352 $\pm$ 0.026 χ^2 /NDF: 1421871.0/31

All: 147.061 $\pm$ 0.019 χ^2 /NDF: 2891320.5/60

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2249.180+/-44.306 χ^2/NDF : 8921.2/12

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -8767.365+/-46.345 χ^2/NDF : 18636.5/11

Left: -5361.786+/-32.026 χ^2/NDF : 37892.9/24

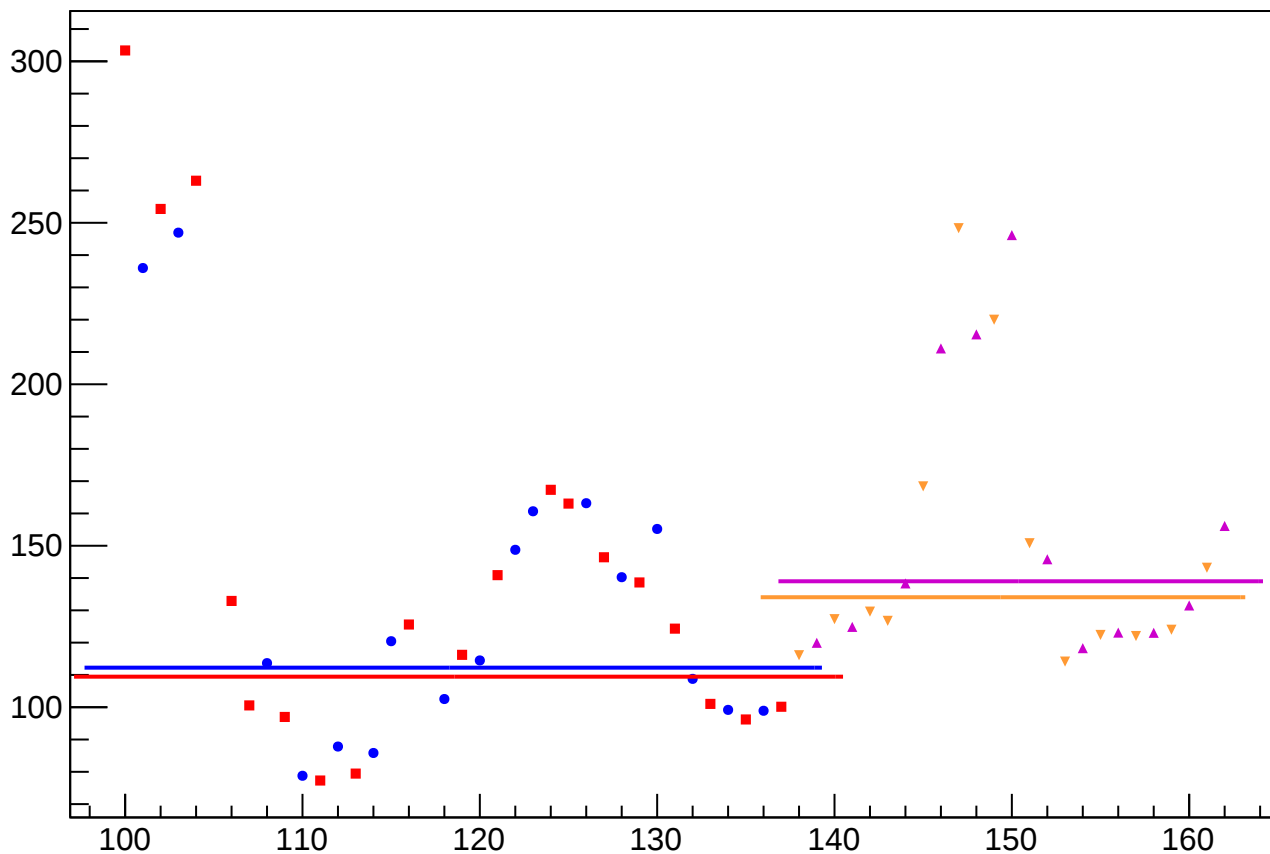
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3766.810+/-32.851 χ^2/NDF : 72576.5/28

Out: -2344.762+/-31.322 χ^2/NDF : 16608.0/31

All: -3021.931+/-22.669 χ^2/NDF : 90166.1/60

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 134.058+/-0.031 χ^2/NDF : 791273.5/12

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 138.999+/-0.033 χ^2/NDF : 891518.0/11

Left: 136.417+/-0.023 χ^2/NDF : 1694670.4/24

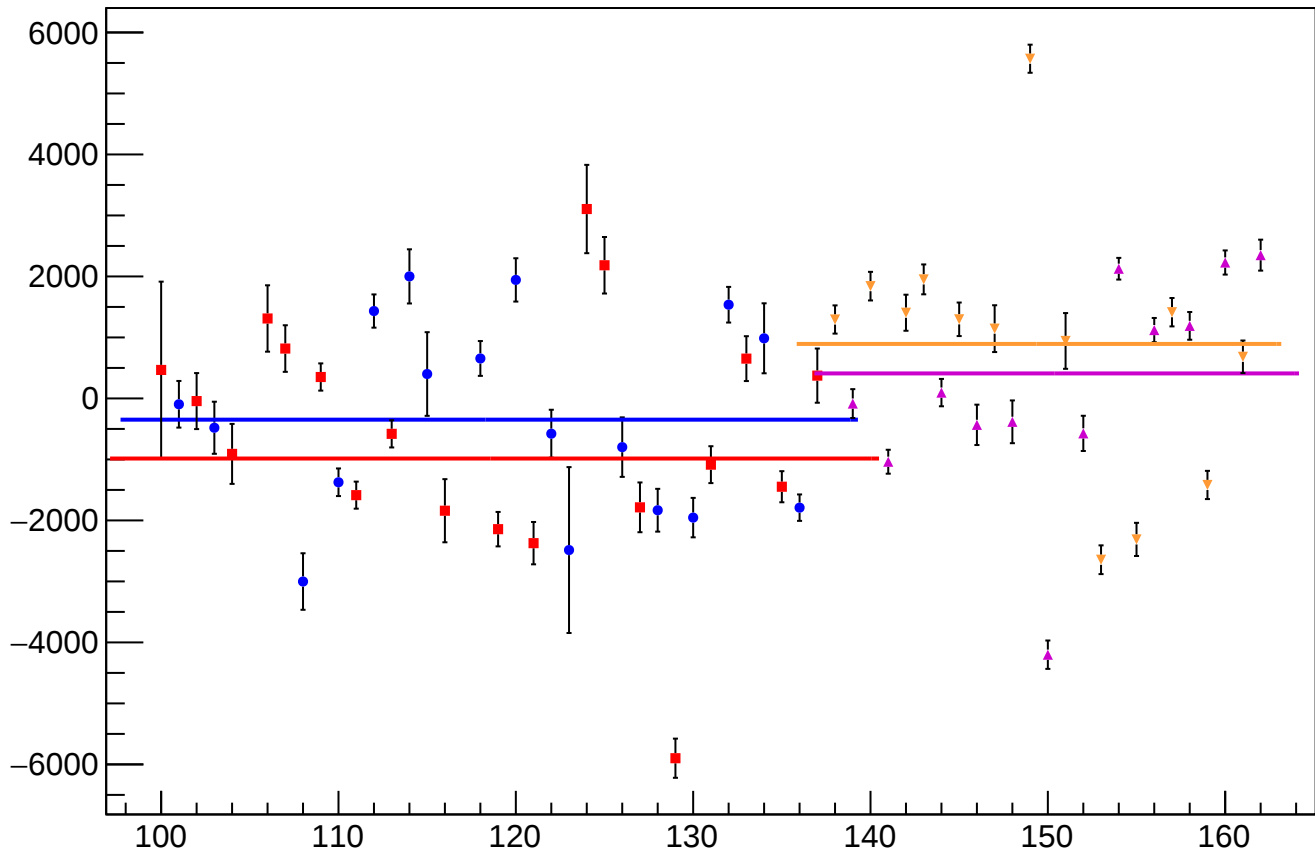
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 125.690+/-0.023 χ^2/NDF : 2348539.0/28

Out: 121.753+/-0.022 χ^2/NDF : 2369262.2/31

All: 123.628+/-0.016 χ^2/NDF : 4732848.6/60

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 $\pm$ 83.826 χ^2/NDF : 317.3/16

Left Out: 893.477 $\pm$ 72.291 χ^2/NDF : 925.6/12

Right Out: -985.242 $\pm$ 77.683 χ^2/NDF : 476.6/18

Left In: 410.160 $\pm$ 66.100 χ^2/NDF : 737.4/11

Left: 630.240 $\pm$ 48.782 χ^2/NDF : 1687.3/24

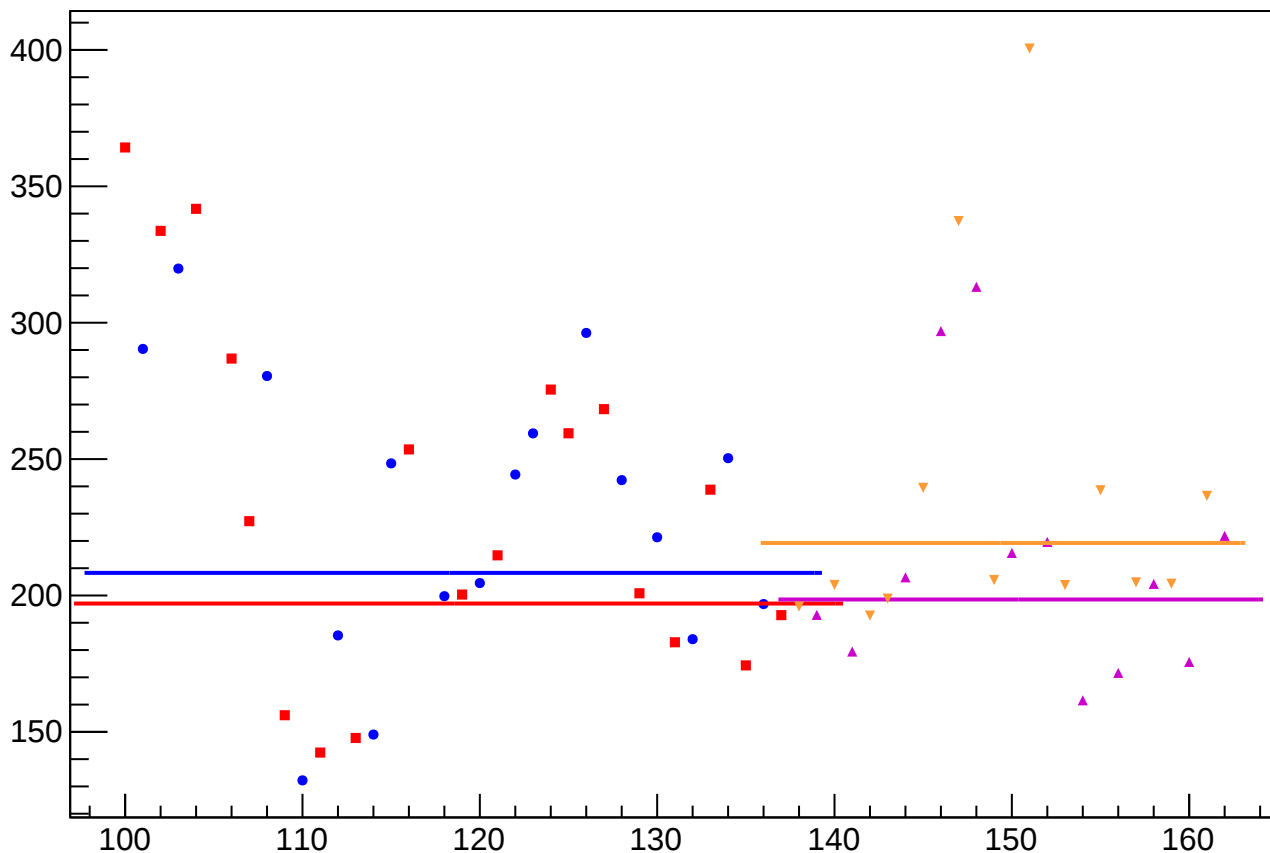
Right: -690.850 $\pm$ 56.978 χ^2/NDF : 824.9/35

In: 119.464 $\pm$ 51.904 χ^2/NDF : 1105.1/28

Out: 21.579 $\pm$ 52.921 χ^2/NDF : 1715.6/31

All: 71.471 $\pm$ 37.056 χ^2/NDF : 2822.5/60

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 219.261+/-0.051 χ^2/NDF : 623545.0/12

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 198.538+/-0.047 χ^2/NDF : 602894.7/11

Left: 207.975+/-0.034 χ^2/NDF : 1315951.5/24

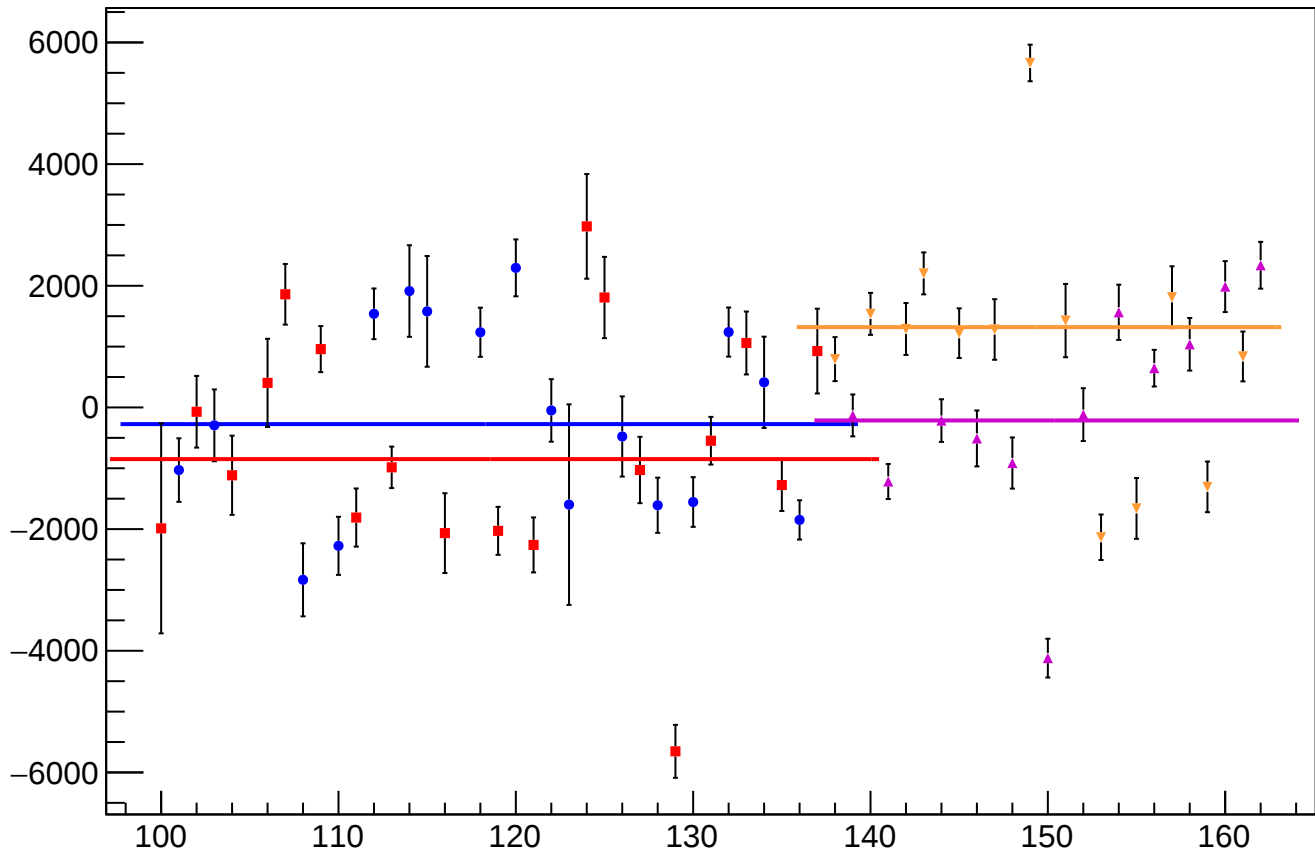
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 202.276+/-0.037 χ^2/NDF : 1318066.0/28

Out: 208.954+/-0.037 χ^2/NDF : 1637945.9/31

All: 205.550+/-0.026 χ^2/NDF : 2972242.0/60

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1320.163 ± 111.433 $\chi^2/\text{NDF}: 380.9/12$

Right Out: -849.413 ± 115.349 $\chi^2/\text{NDF}: 263.3/18$

Left In: -214.073 ± 106.723 $\chi^2/\text{NDF}: 268.8/11$

Left: 519.936 ± 77.076 $\chi^2/\text{NDF}: 748.6/24$

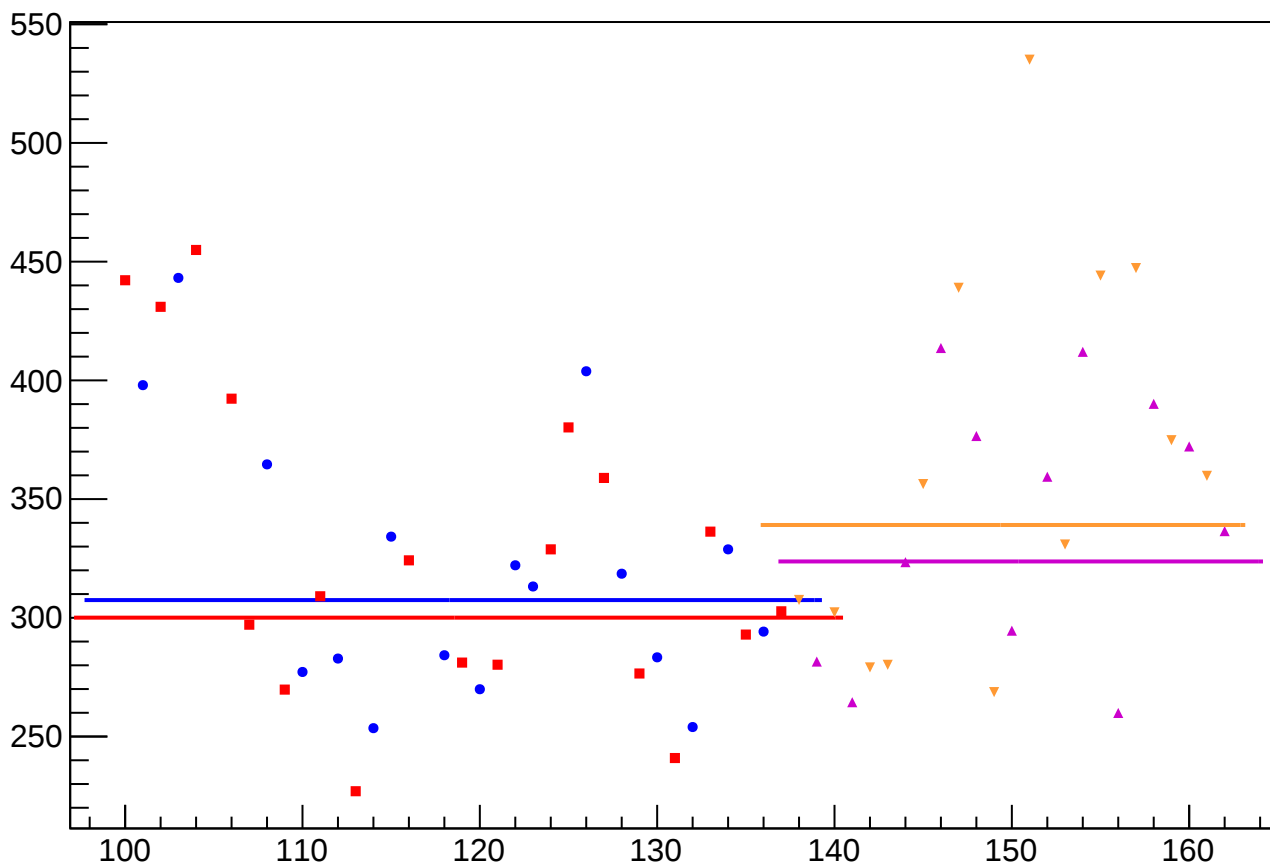
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -240.328 ± 80.133 $\chi^2/\text{NDF}: 440.5/28$

Out: 272.828 ± 80.144 $\chi^2/\text{NDF}: 827.2/31$

All: 16.215 ± 56.666 $\chi^2/\text{NDF}: 1288.2/60$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 339.094 $\pm$ 0.079 χ^2 /NDF: 740566.3/12

Right Out: 300.069 $\pm$ 0.082 χ^2 /NDF: 490398.9/18

Left In: 323.735 $\pm$ 0.075 χ^2 /NDF: 494371.2/11

Left: 331.083 $\pm$ 0.055 χ^2 /NDF: 1254755.6/24

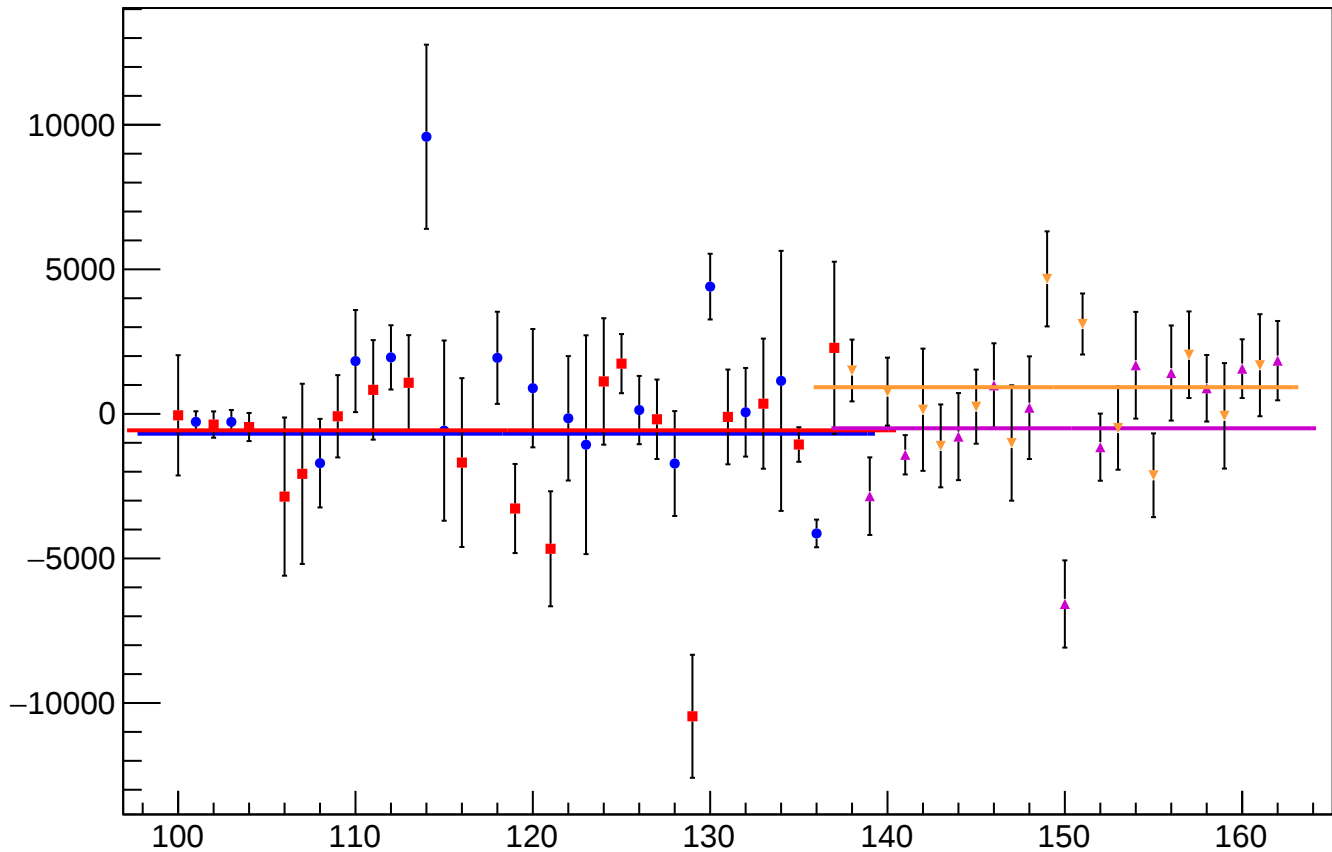
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 316.639 $\pm$ 0.057 χ^2 /NDF: 837737.1/28

Out: 320.255 $\pm$ 0.057 χ^2 /NDF: 1349375.8/31

All: 318.447 $\pm$ 0.040 χ^2 /NDF: 2189149.6/60

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 ± 210.341 χ^2/NDF : 97.4/16

Left Out: 923.705 ± 393.399 χ^2/NDF : 19.6/12

Right Out: -568.651 ± 243.251 χ^2/NDF : 39.7/18

Left In: -498.195 ± 352.564 χ^2/NDF : 33.9/11

Left: 135.150 ± 262.554 χ^2/NDF : 60.7/24

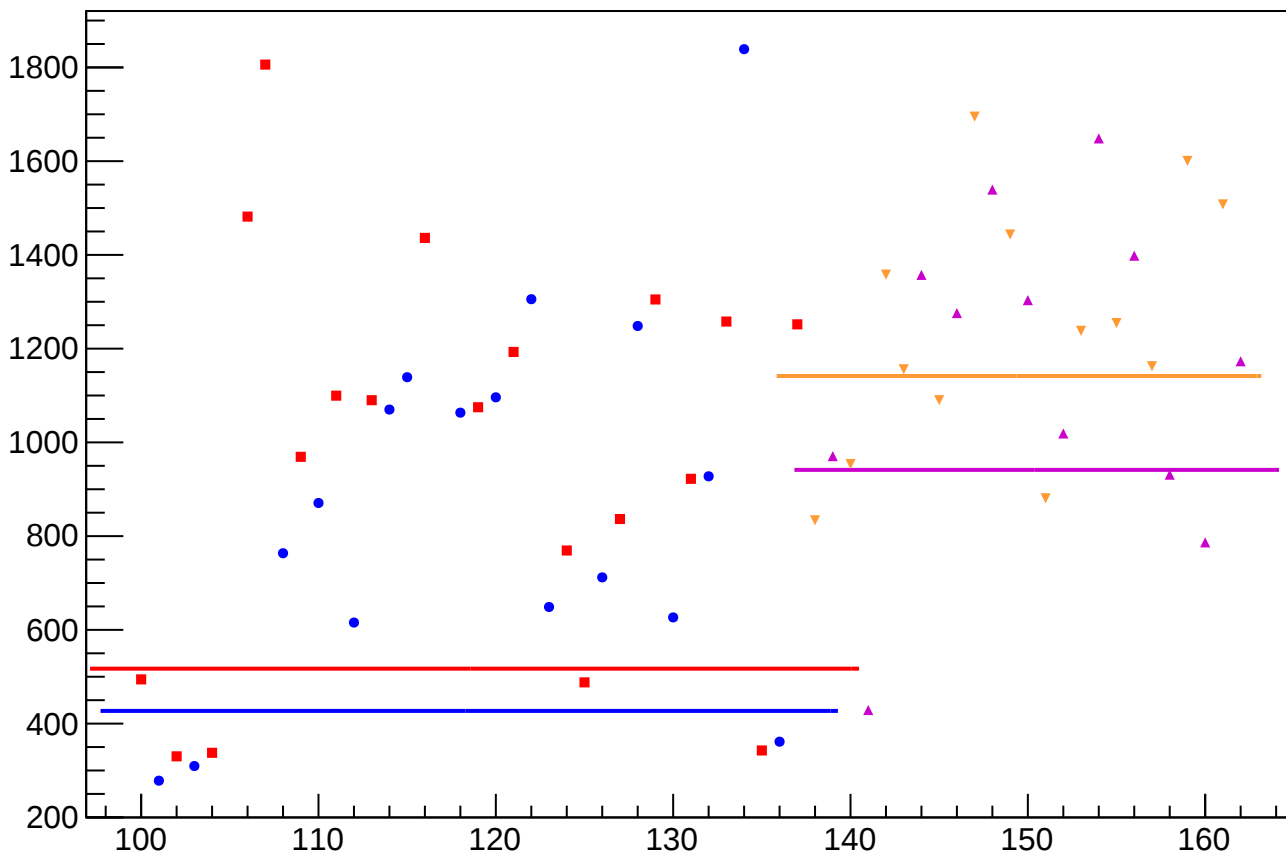
Right: -635.255 ± 159.106 χ^2/NDF : 137.2/35

In: -636.005 ± 180.636 χ^2/NDF : 131.4/28

Out: -155.886 ± 206.894 χ^2/NDF : 69.7/31

All: -428.329 ± 136.071 χ^2/NDF : 204.2/60

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 1141.584+/-0.278 χ^2/NDF : 819077.9/12

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 941.345+/-0.249 χ^2/NDF : 2295694.5/11

Left: 1030.536+/-0.186 χ^2/NDF : 3402129.0/24

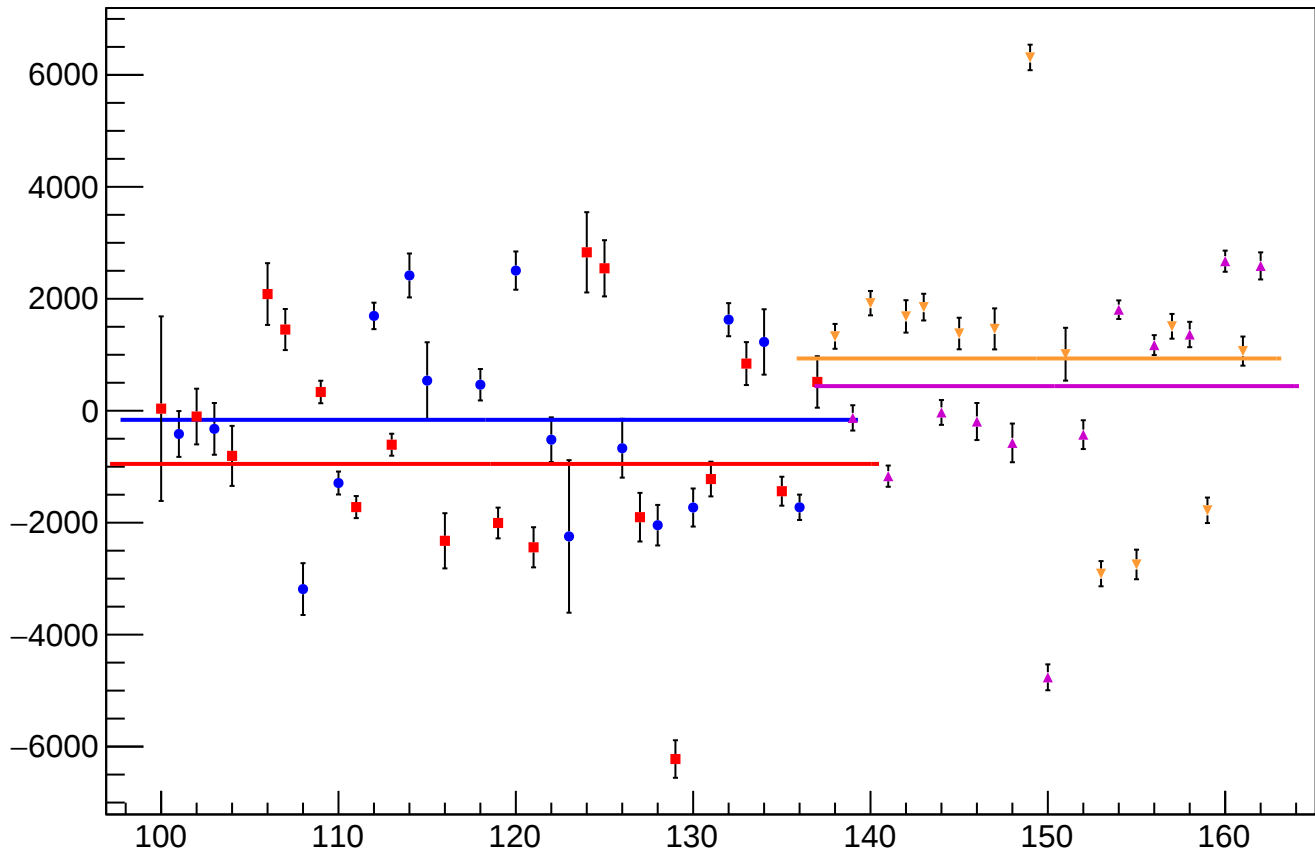
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 562.075+/-0.128 χ^2/NDF : 8299645.2/28

Out: 689.921+/-0.146 χ^2/NDF : 8068414.3/31

All: 617.375+/-0.096 χ^2/NDF : 16801402.7/60

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333±/82.350 χ^2/NDF : 387.6/16

Left Out: 933.880±/70.133 χ^2/NDF :1241.3/12

Right Out: -950.093±/75.133 χ^2/NDF : 539.8/18

Left In: 439.838±/63.051 χ^2/NDF :931.7/11

Left: 660.663±/46.888 χ^2/NDF : 2200.4/24

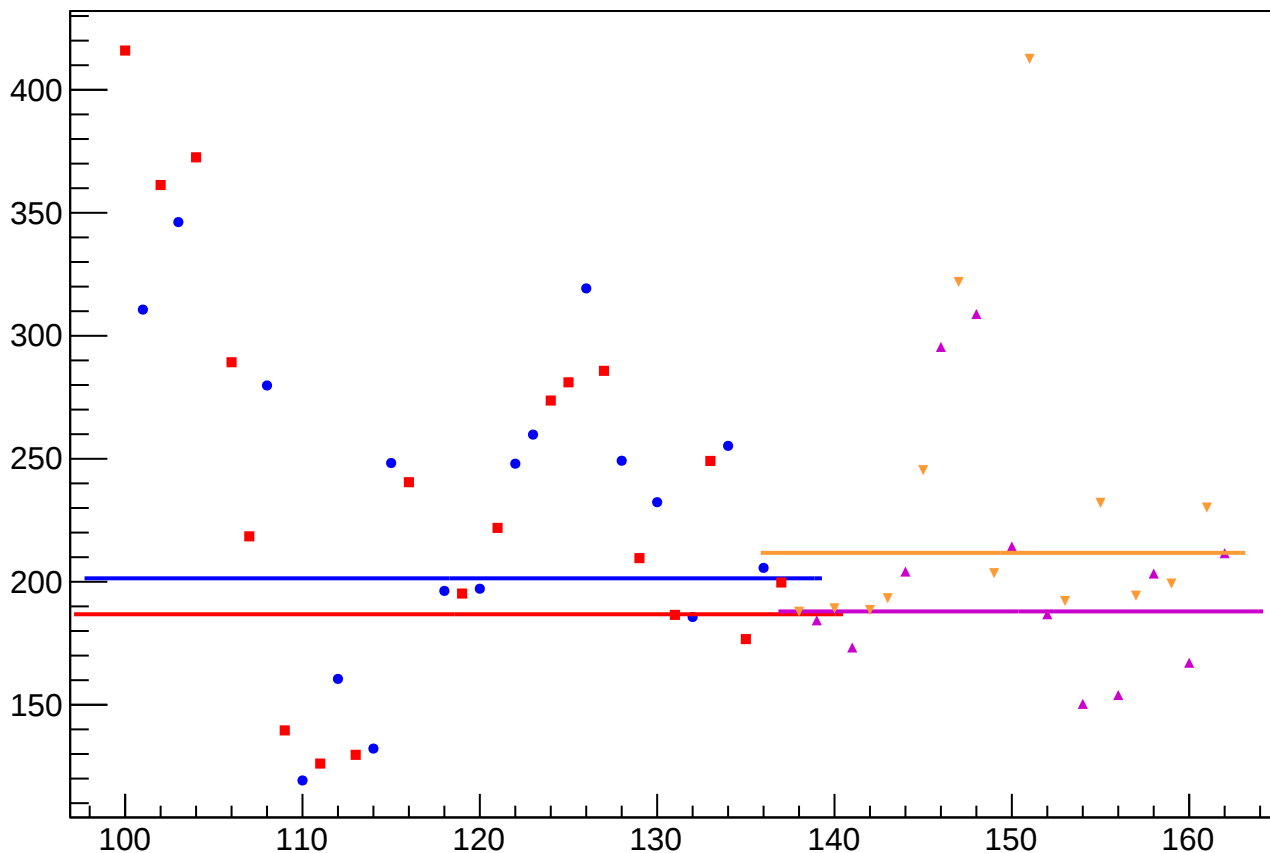
Right: -592.238±/55.504 χ^2/NDF : 977.3/35

In: 217.296±/50.062 χ^2/NDF :1352.9/28

Out: 56.669±/51.268 χ^2/NDF :2117.1/31

All: 138.893±/35.818 χ^2/NDF : 3475.0/60

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2/NDF : 1056022.1/16

Left Out: 211.773 $\pm$ 0.050 χ^2/NDF : 698911.5/12

Right Out: 186.797 $\pm$ 0.053 χ^2/NDF : 1393162.0/18

Left In: 187.956 $\pm$ 0.045 χ^2/NDF : 733499.0/11

Left: 198.601 $\pm$ 0.033 χ^2/NDF : 1559968.4/24

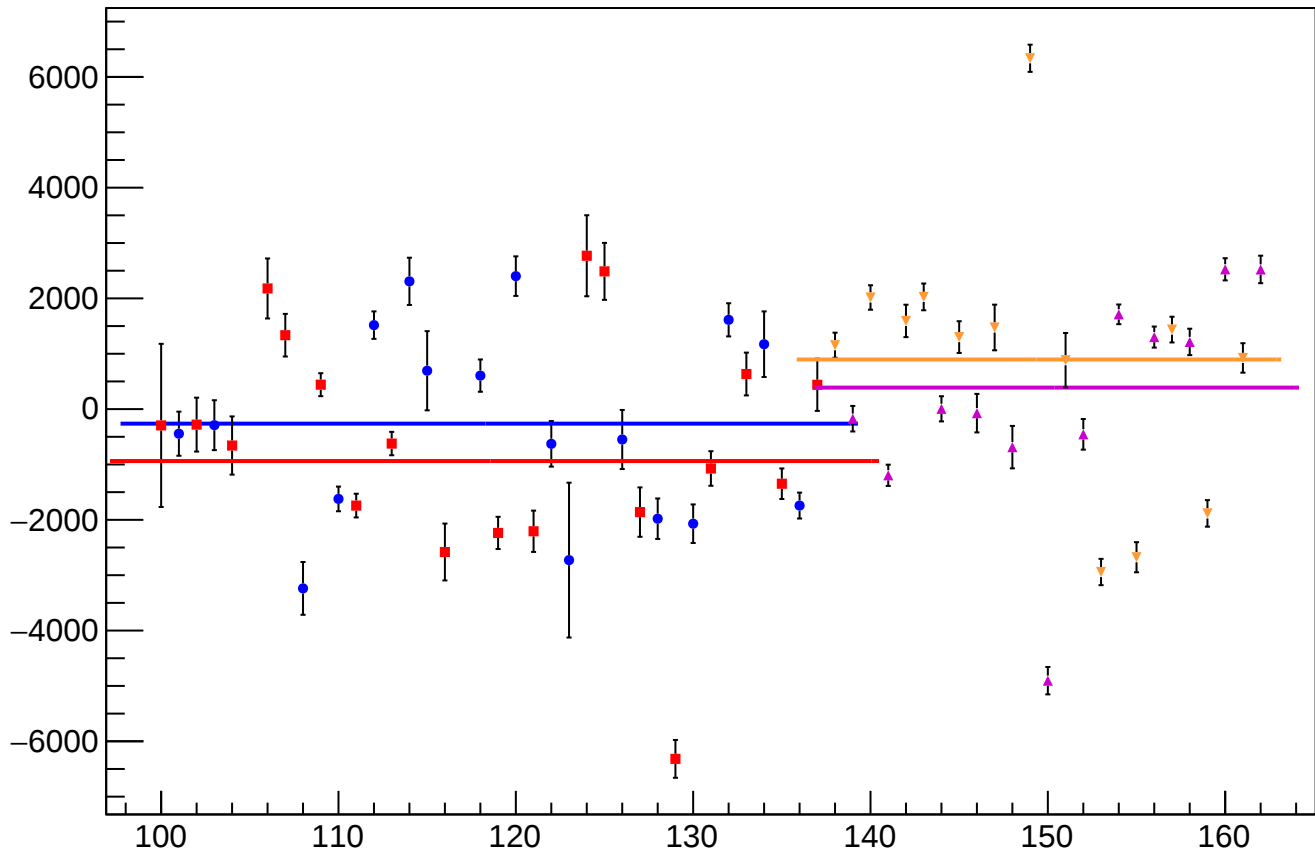
Right: 193.435 $\pm$ 0.039 χ^2/NDF : 2483546.7/35

In: 192.928 $\pm$ 0.035 χ^2/NDF : 1823174.0/28

Out: 200.144 $\pm$ 0.036 χ^2/NDF : 2210169.1/31

All: 196.450 $\pm$ 0.025 χ^2/NDF : 4053625.9/60

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 896.094+/-72.784 χ^2/NDF :1121.7/12

Right Out: -937.678+/-78.434 χ^2/NDF : 521.9/18

Left In: 388.384+/-66.263 χ^2/NDF :831.8/11

Left: 618.483+/-48.999 χ^2/NDF : 1980.1/24

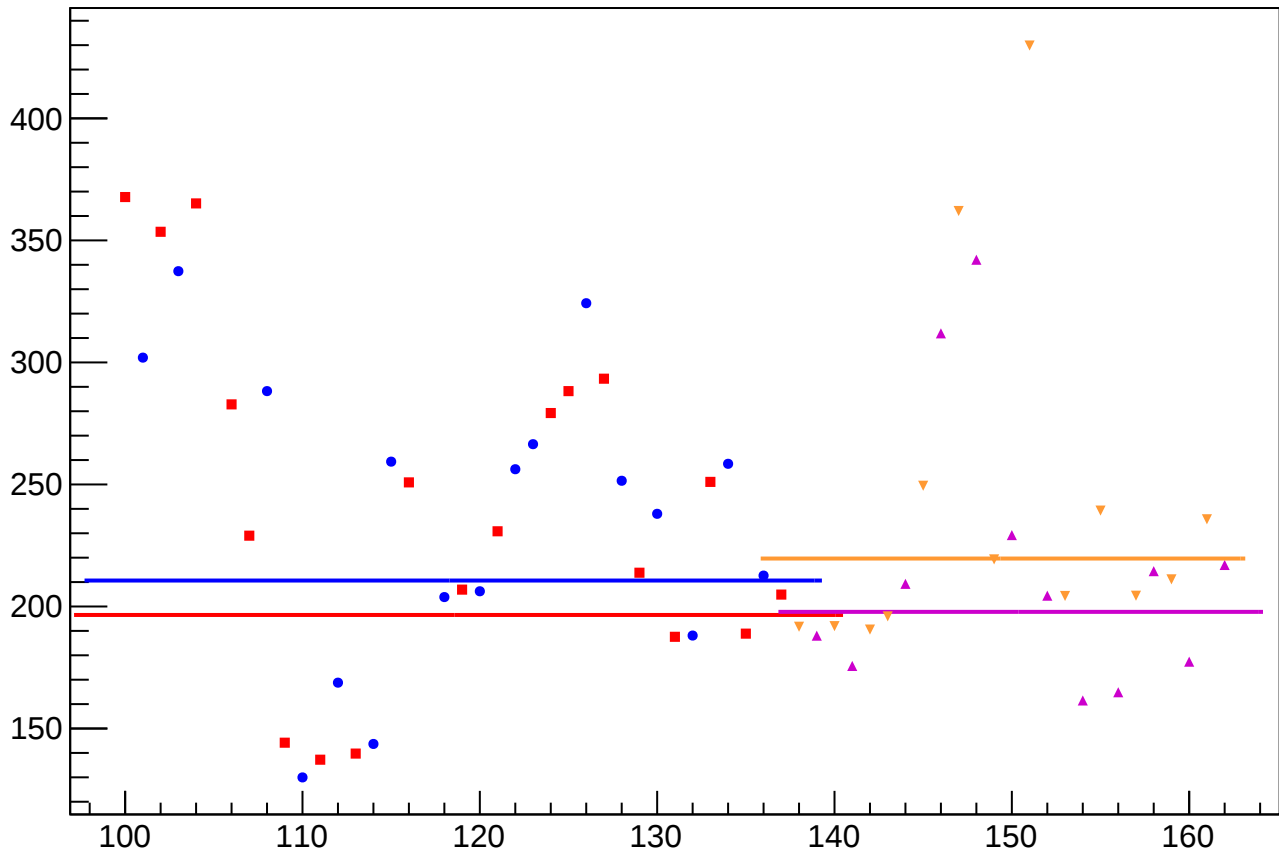
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 143.968+/-52.360 χ^2/NDF :1236.7/28

Out: 47.634+/-53.352 χ^2/NDF :1937.4/31

All: 96.705+/-37.370 χ^2/NDF : 3175.7/60

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 219.647+/-0.051 χ^2/NDF : 764494.3/12

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 197.799+/-0.047 χ^2/NDF : 753382.2/11

Left: 207.701+/-0.035 χ^2/NDF : 1616414.3/24

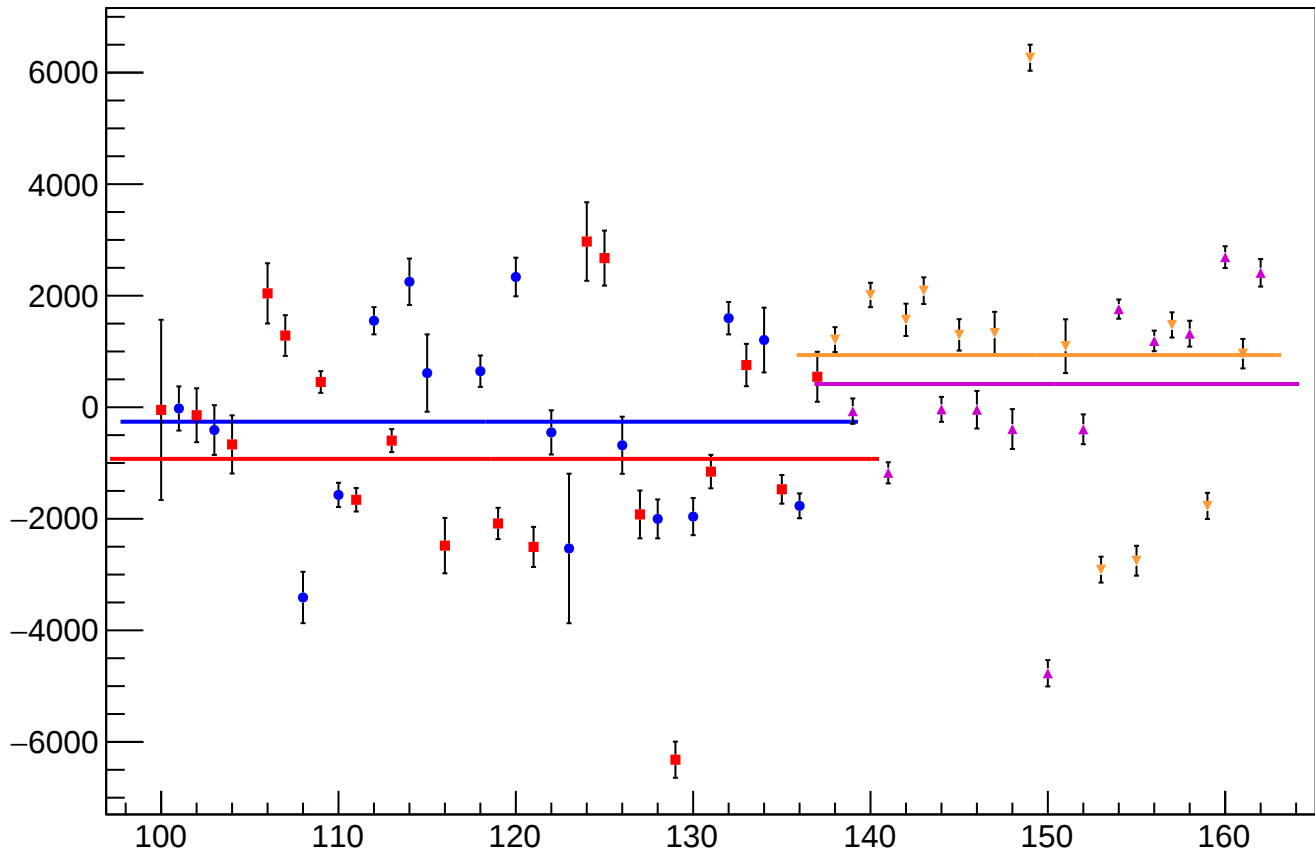
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 202.621+/-0.037 χ^2/NDF : 1657352.3/28

Out: 208.950+/-0.038 χ^2/NDF : 2062947.3/31

All: 205.726+/-0.026 χ^2/NDF : 3734638.6/60

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139±/82.802 χ^2/NDF : 391.2/16

Left Out: 936.460±/71.198 χ^2/NDF :1179.2/12

Right Out: -925.534±/75.503 χ^2/NDF : 581.9/18

Left In: 416.883±/64.560 χ^2/NDF :871.1/11

Left: 651.330±/47.826 χ^2/NDF : 2079.5/24

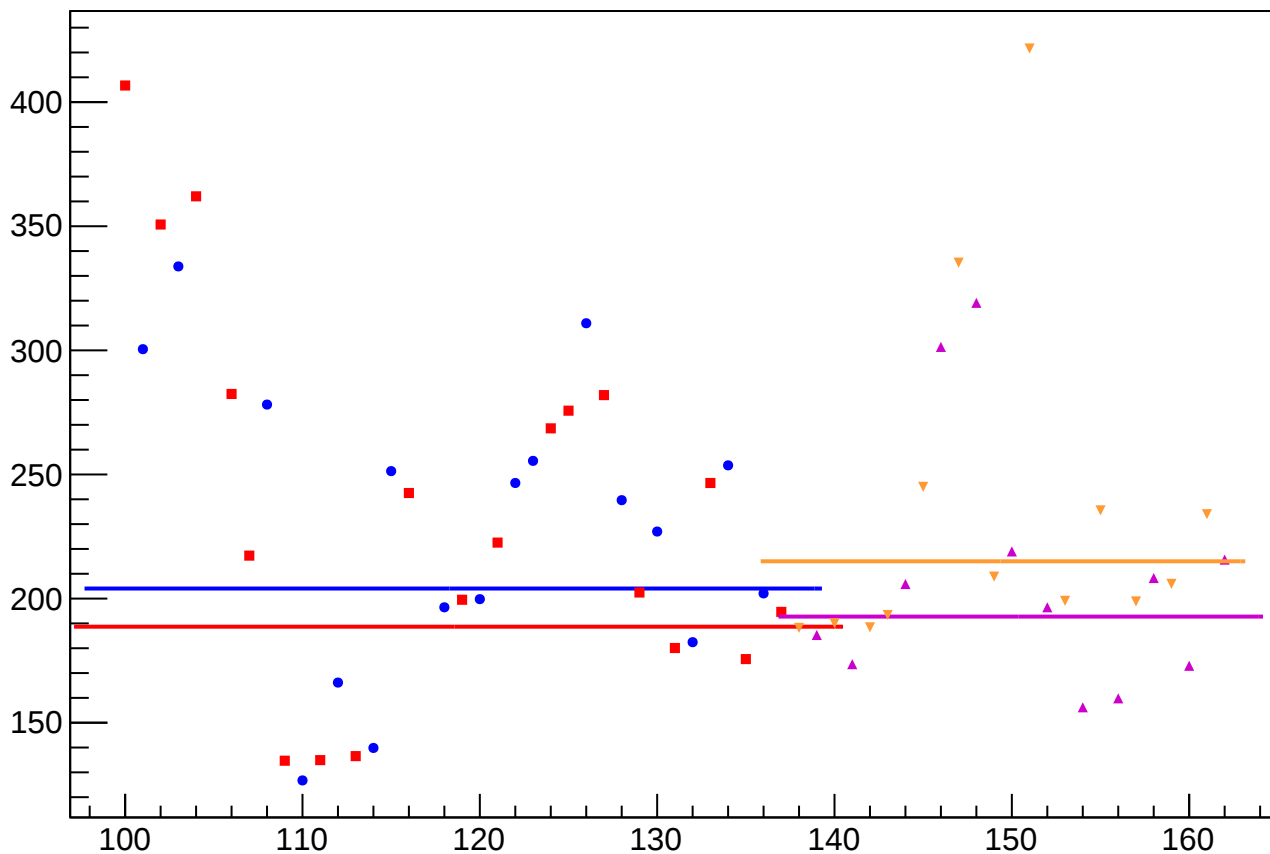
Right: -622.995±/55.791 χ^2/NDF : 1008.5/35

In: 161.291±/50.914 χ^2/NDF :1303.8/28

Out: 60.067±/51.800 χ^2/NDF :2083.0/31

All: 111.552±/36.311 χ^2/NDF : 3388.7/60

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 215.020+/-0.050 χ^2/NDF : 723126.7/12

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 192.754+/-0.046 χ^2/NDF : 713287.4/11

Left: 202.801+/-0.034 χ^2/NDF : 1543763.8/24

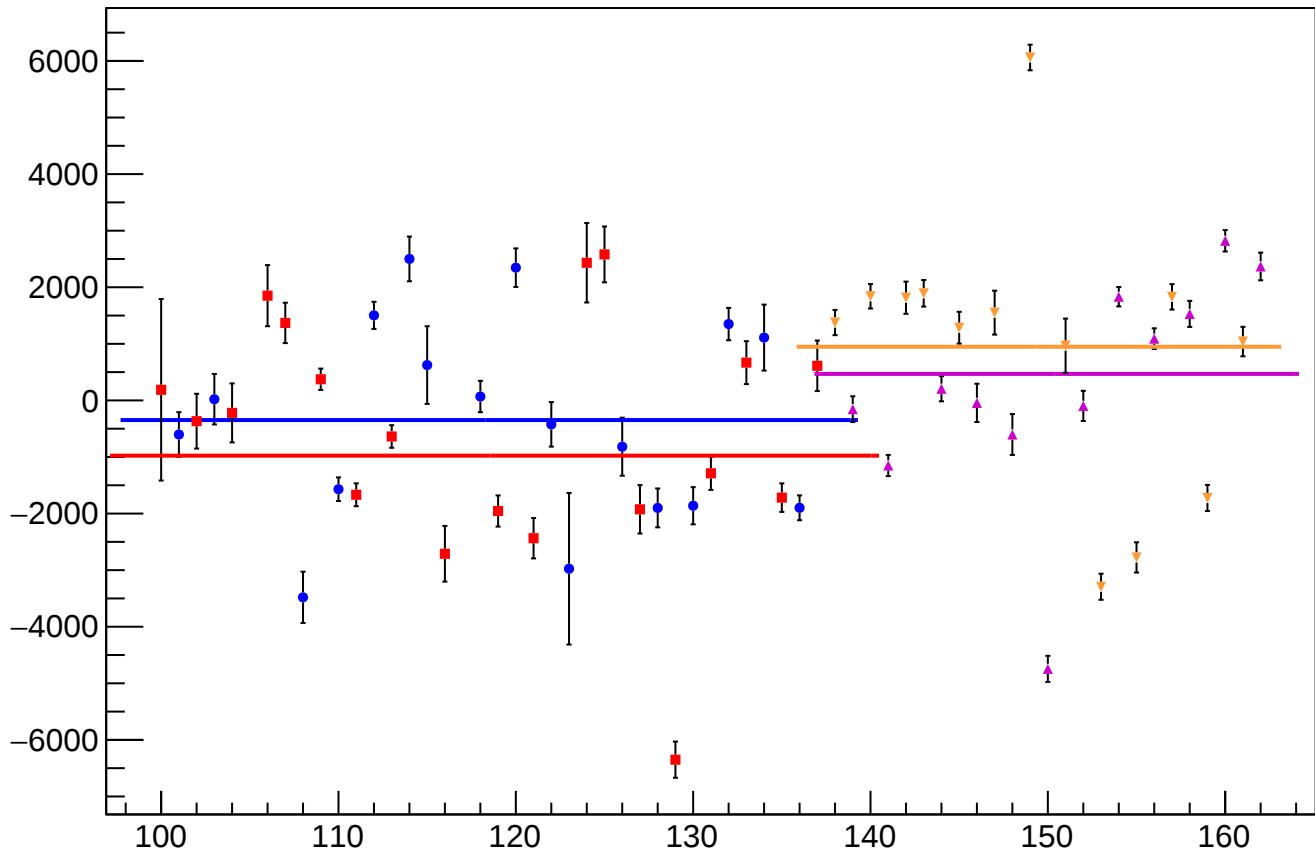
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 197.025+/-0.036 χ^2/NDF : 1604865.2/28

Out: 202.623+/-0.037 χ^2/NDF : 2103073.3/31

All: 199.776+/-0.026 χ^2/NDF : 3719818.1/60

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240+/-81.318 χ^2/NDF : 399.1/16

Left Out: 948.153+/-70.488 χ^2/NDF :1242.7/12

Right Out: -976.286+/-73.889 χ^2/NDF : 585.7/18

Left In: 468.557+/-63.892 χ^2/NDF :923.8/11

Left: 684.872+/-47.339 χ^2/NDF : 2192.0/24

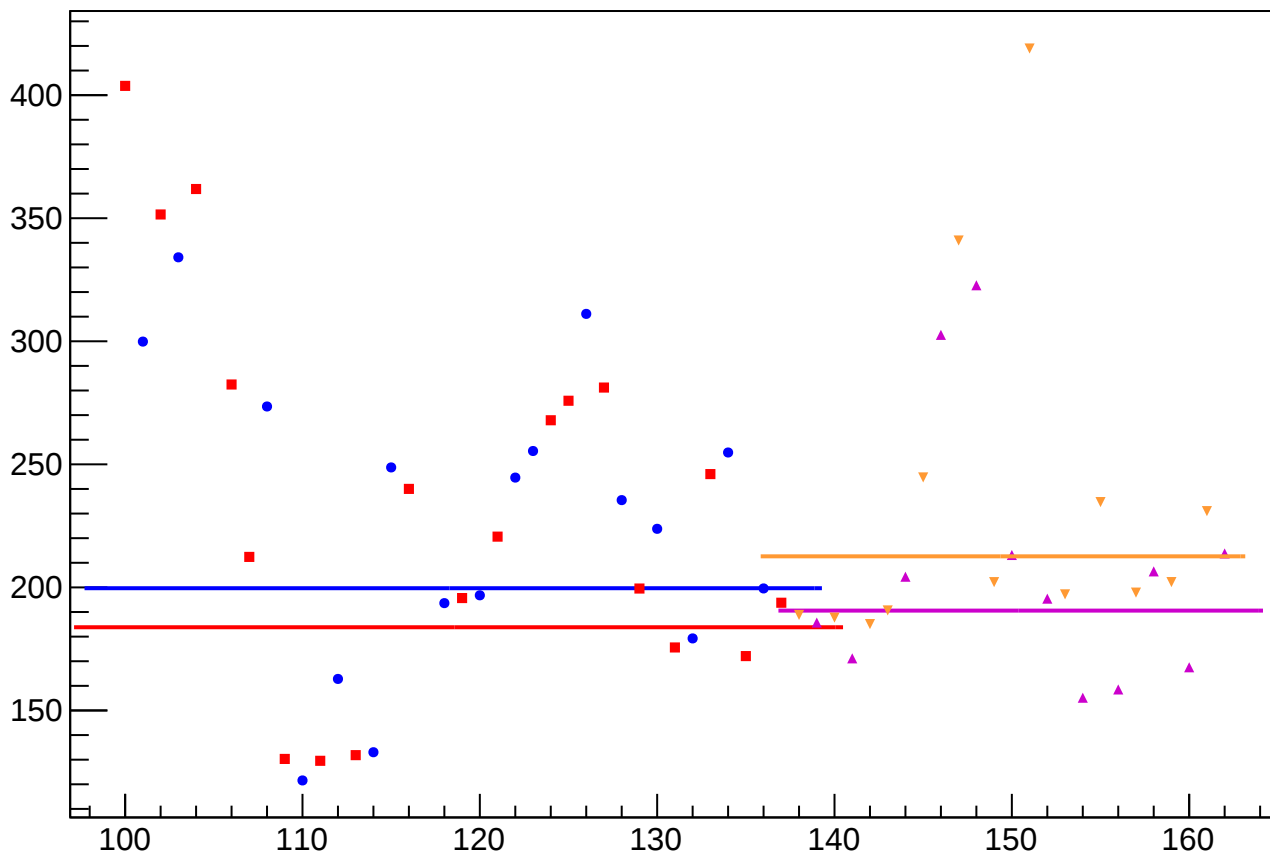
Right: -691.802+/-54.685 χ^2/NDF : 1017.5/35

In: 157.166+/-50.240 χ^2/NDF :1385.1/28

Out: 31.241+/-51.002 χ^2/NDF :2183.6/31

All: 95.152+/-35.791 χ^2/NDF : 3571.8/60

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 212.622 $\pm$ 0.050 χ^2 /NDF: 750267.9/12

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 190.573 $\pm$ 0.045 χ^2 /NDF: 741219.1/11

Left: 200.518 $\pm$ 0.033 χ^2 /NDF: 1598918.7/24

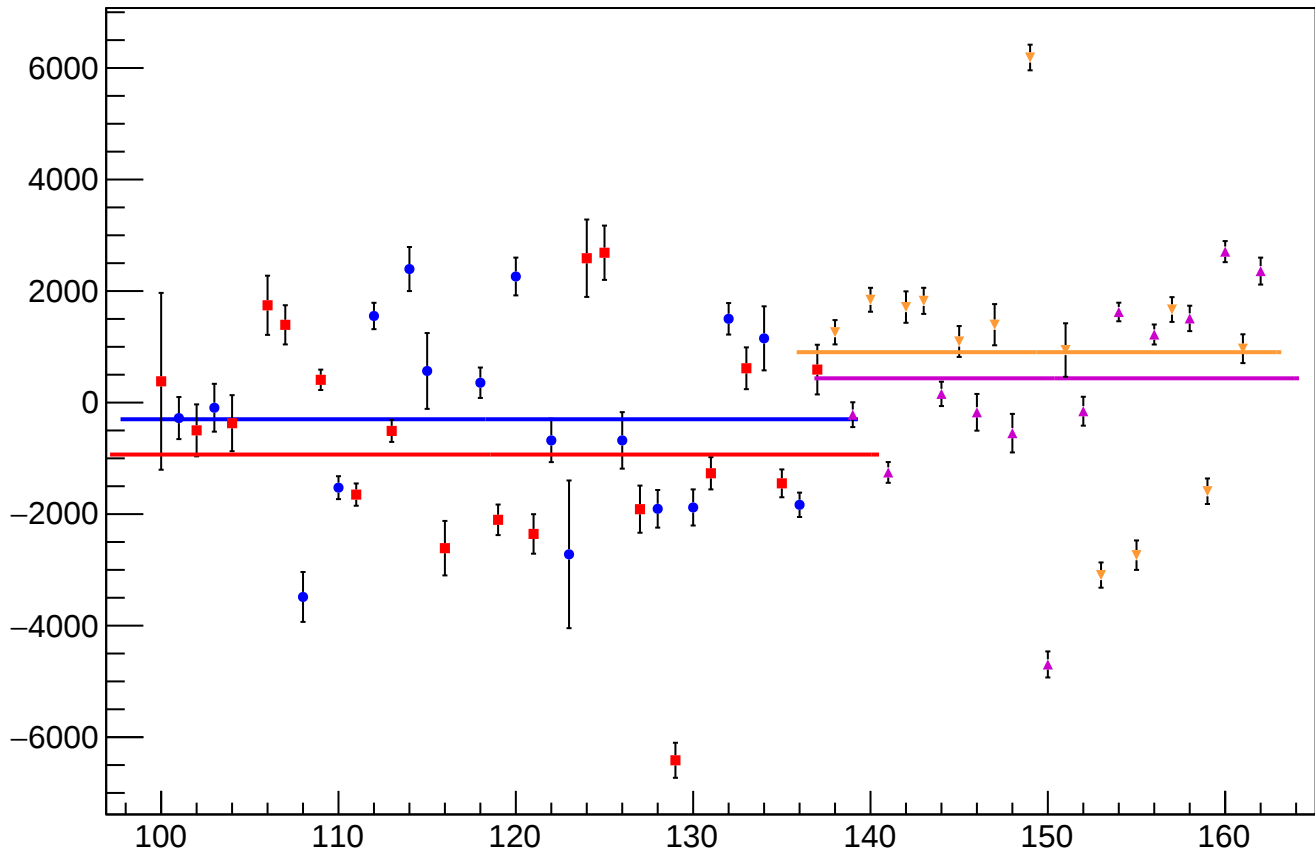
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 194.045 $\pm$ 0.036 χ^2 /NDF: 1699847.5/28

Out: 198.894 $\pm$ 0.036 χ^2 /NDF: 2259123.7/31

All: 196.433 $\pm$ 0.025 χ^2 /NDF: 3968145.0/60

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 χ^2/NDF : 406.6/16

Left Out: 903.717 ± 69.791 χ^2/NDF : 1207.4/12

Right Out: -931.843 ± 72.751 χ^2/NDF : 614.8/18

Left In: 435.382 ± 62.971 χ^2/NDF : 891.6/11

Left: 645.554 ± 46.753 χ^2/NDF : 2123.8/24

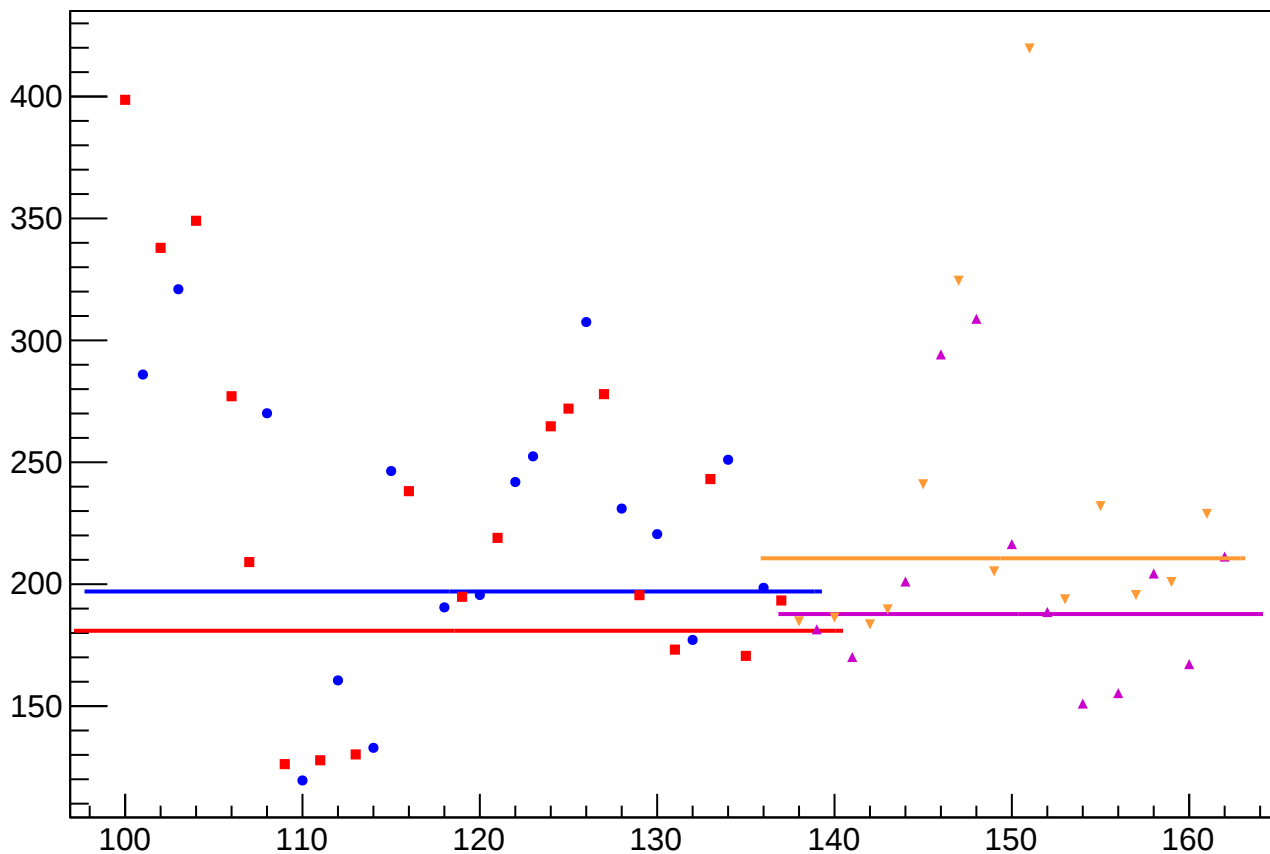
Right: -646.004 ± 53.873 χ^2/NDF : 1055.6/35

In: 155.154 ± 49.519 χ^2/NDF : 1350.1/28

Out: 24.034 ± 50.364 χ^2/NDF : 2153.7/31

All: 90.702 ± 35.310 χ^2/NDF : 3507.3/60

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 210.621+/-0.049 χ^2/NDF : 729446.1/12

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 187.758+/-0.045 χ^2/NDF : 727176.5/11

Left: 198.018+/-0.033 χ^2/NDF : 1574941.4/24

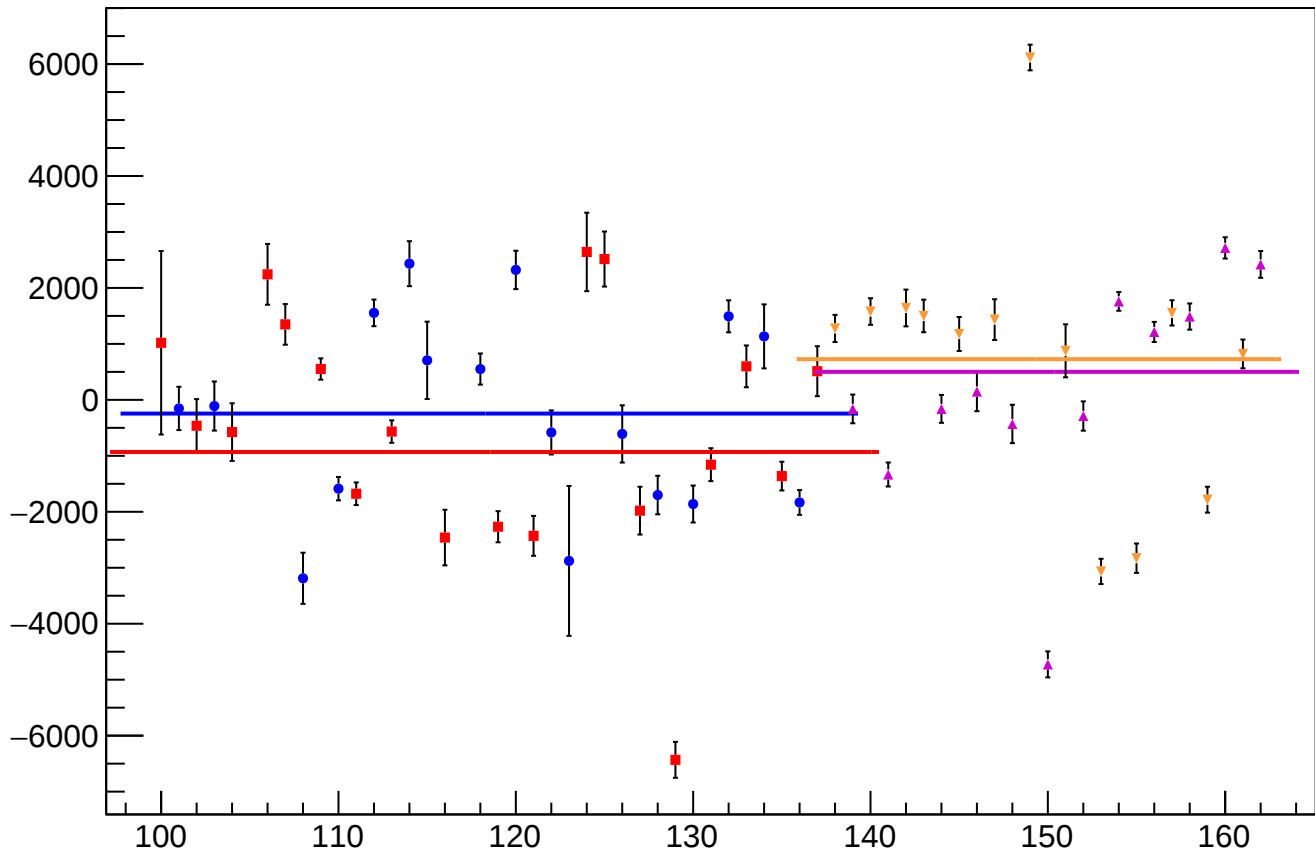
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 191.290+/-0.035 χ^2/NDF : 1655588.1/28

Out: 196.380+/-0.036 χ^2/NDF : 2248891.0/31

All: 193.792+/-0.025 χ^2/NDF : 3914868.6/60

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 727.149 ± 73.506 χ^2/NDF : 1187.8/12

Right Out: -931.272 ± 74.206 χ^2/NDF : 609.7/18

Left In: 500.877 ± 65.528 χ^2/NDF : 899.9/11

Left: 601.072 ± 48.914 χ^2/NDF : 2092.9/24

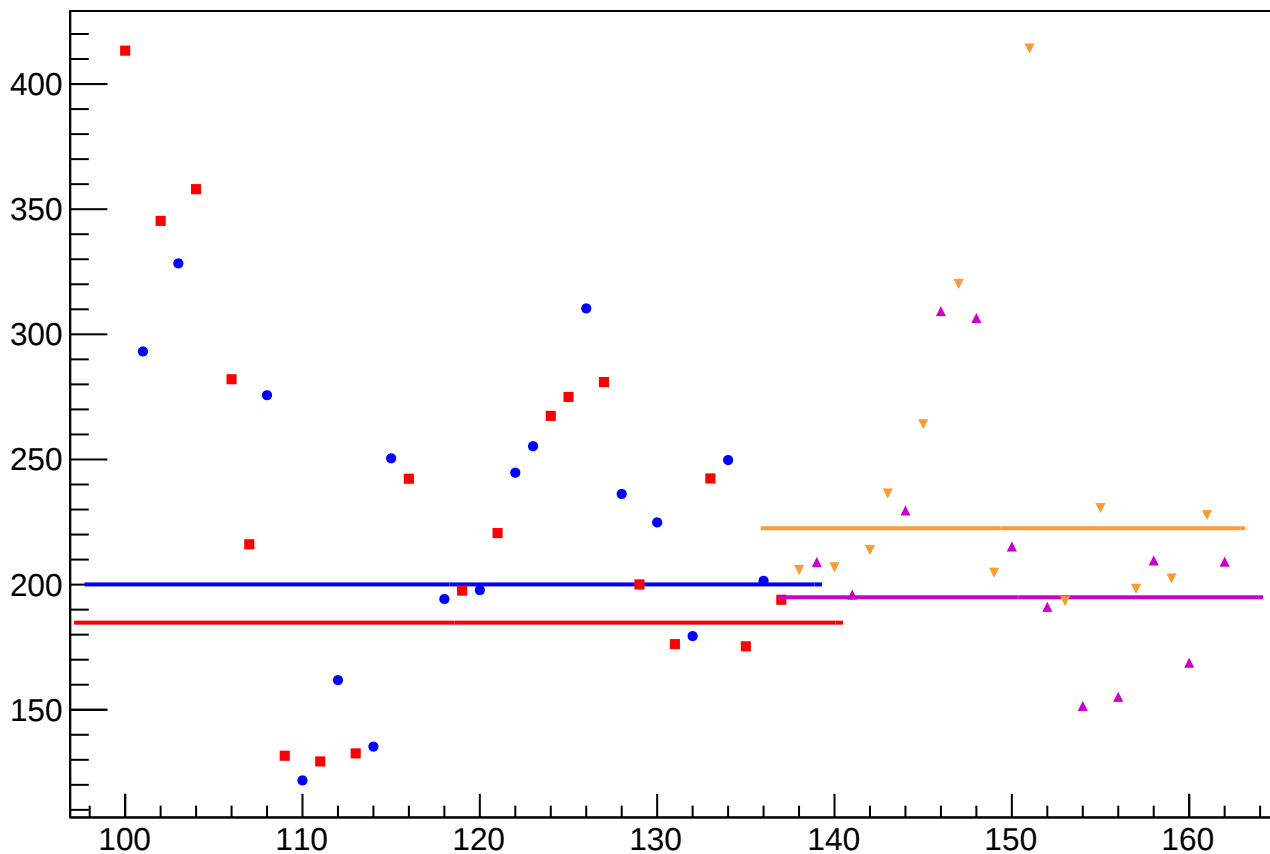
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 207.590 ± 51.043 χ^2/NDF : 1342.2/28

Out: -94.203 ± 52.222 χ^2/NDF : 2049.6/31

All: 60.141 ± 36.502 χ^2/NDF : 3408.9/60

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 222.527 $\pm$ 0.052 χ^2 /NDF: 618533.5/12

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 194.943 $\pm$ 0.046 χ^2 /NDF: 770609.1/11

Left: 207.158 $\pm$ 0.035 χ^2 /NDF: 1546070.7/24

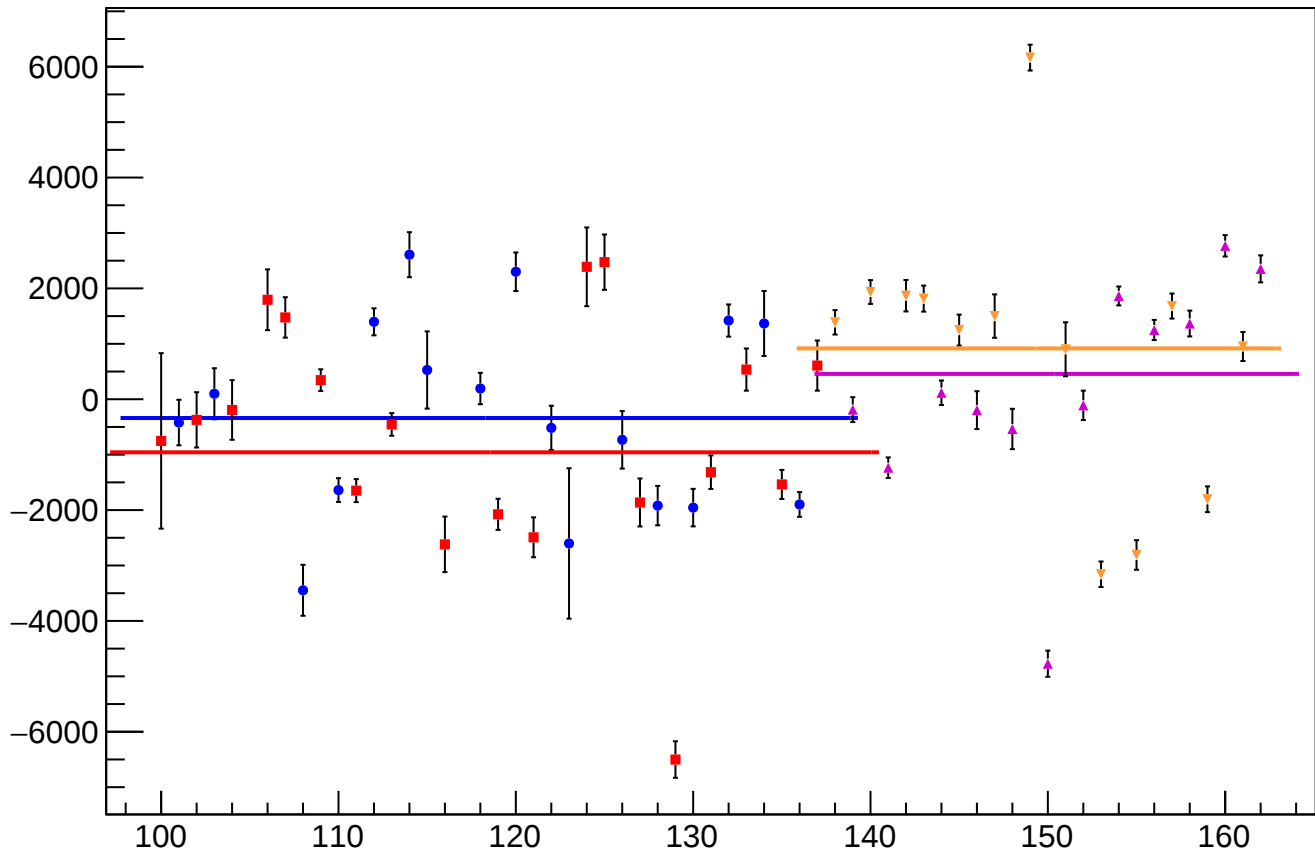
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 196.963 $\pm$ 0.036 χ^2 /NDF: 1693748.1/28

Out: 203.846 $\pm$ 0.037 χ^2 /NDF: 2197632.7/31

All: 200.326 $\pm$ 0.026 χ^2 /NDF: 3909151.2/60

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 ± 83.123 χ^2/NDF : 389.5/16

Left Out: 916.588 ± 70.668 χ^2/NDF : 1219.7/12

Right Out: -957.615 ± 75.749 χ^2/NDF : 570.3/18

Left In: 457.211 ± 63.993 χ^2/NDF : 904.8/11

Left: 664.184 ± 47.435 χ^2/NDF : 2147.7/24

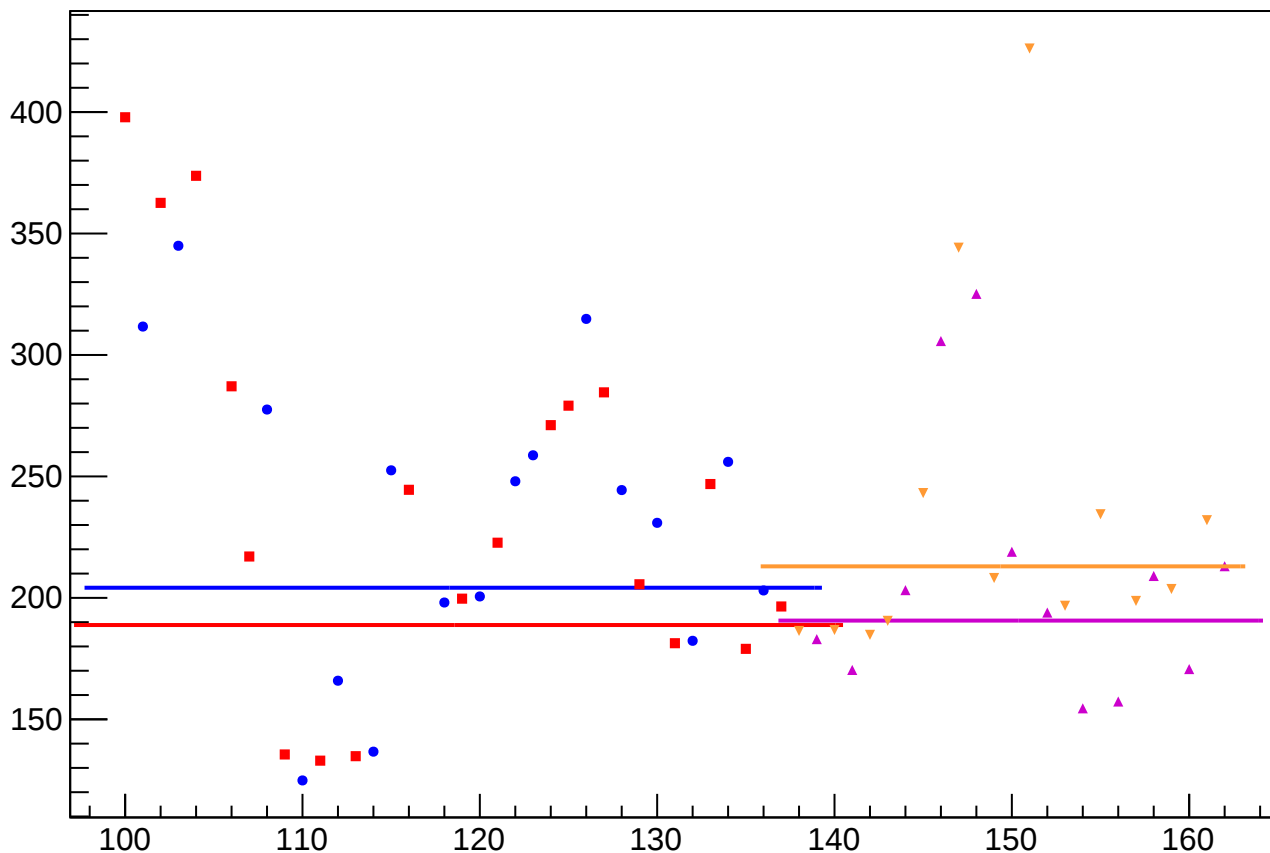
Right: -676.943 ± 55.988 χ^2/NDF : 990.0/35

In: 160.930 ± 50.707 χ^2/NDF : 1351.8/28

Out: 44.446 ± 51.673 χ^2/NDF : 2117.4/31

All: 103.787 ± 36.192 χ^2/NDF : 3471.8/60

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 $\pm$ 0.059 χ^2/NDF : 947438.5/16

Left Out: 212.973 $\pm$ 0.050 χ^2/NDF : 772431.9/12

Right Out: 188.821 $\pm$ 0.054 χ^2/NDF : 1314891.2/18

Left In: 190.648 $\pm$ 0.045 χ^2/NDF : 768950.2/11

Left: 200.707 $\pm$ 0.034 χ^2/NDF : 1651054.3/24

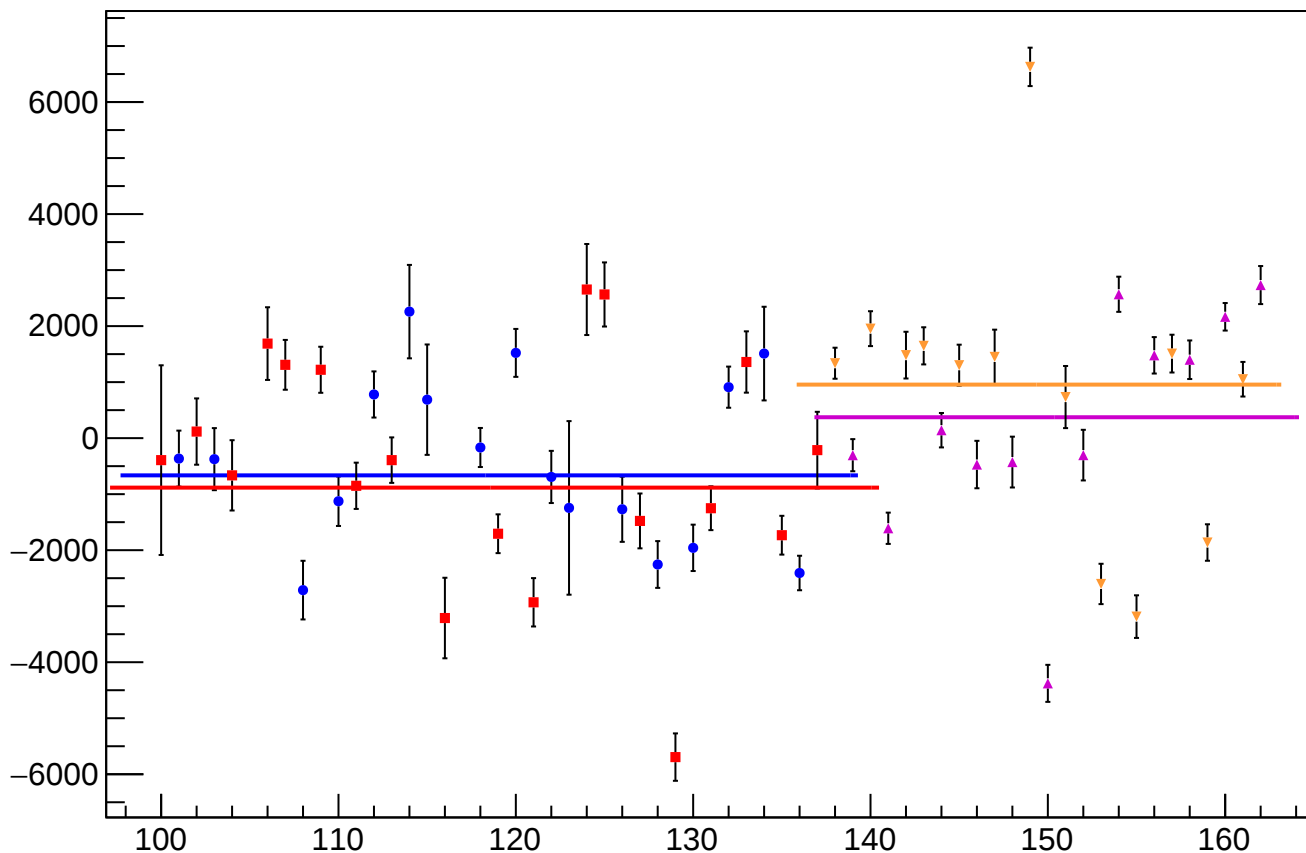
Right: 195.787 $\pm$ 0.040 χ^2/NDF : 2299610.3/35

In: 195.682 $\pm$ 0.036 χ^2/NDF : 1749643.8/28

Out: 201.734 $\pm$ 0.037 χ^2/NDF : 2196033.5/31

All: 198.651 $\pm$ 0.026 χ^2/NDF : 3959654.9/60

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 955.790 ± 97.624 $\chi^2/\text{NDF}: 587.8/12$

Right Out: -883.255 ± 110.875 $\chi^2/\text{NDF}: 320.1/18$

Left In: 373.151 ± 93.937 $\chi^2/\text{NDF}: 443.4/11$

Left: 653.260 ± 67.689 $\chi^2/\text{NDF}: 1049.6/24$

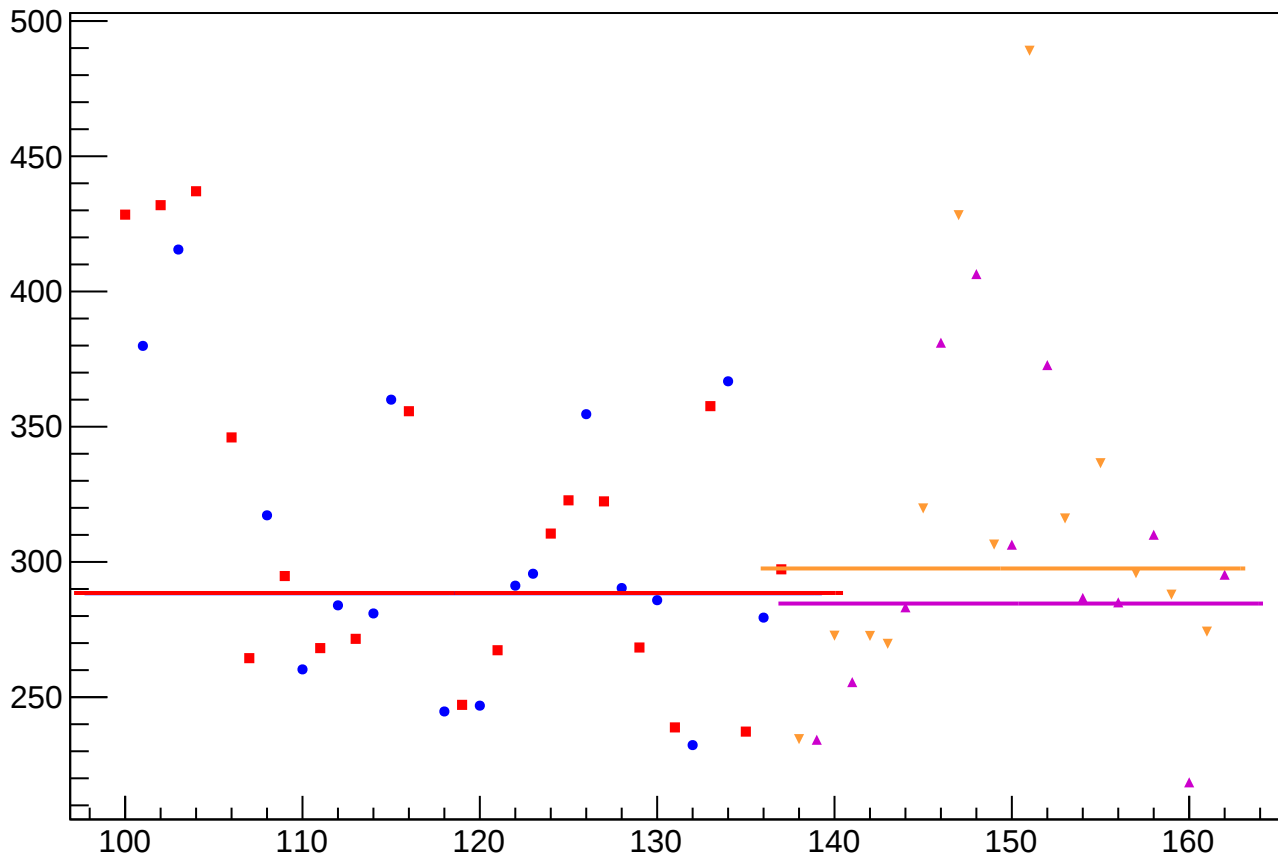
Right: -776.811 ± 79.465 $\chi^2/\text{NDF}: 476.3/35$

In: -46.656 ± 72.482 $\chi^2/\text{NDF}: 647.1/28$

Out: 152.675 ± 73.270 $\chi^2/\text{NDF}: 1062.8/31$

All: 51.933 ± 51.529 $\chi^2/\text{NDF}: 1713.6/60$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 $\pm$ 0.081 χ^2/NDF : 339820.0/16

Left Out: 297.583 $\pm$ 0.069 χ^2/NDF : 568542.8/12

Right Out: 288.522 $\pm$ 0.078 χ^2/NDF : 455410.1/18

Left In: 284.616 $\pm$ 0.066 χ^2/NDF : 573726.3/11

Left: 290.850 $\pm$ 0.048 χ^2/NDF : 1160588.8/24

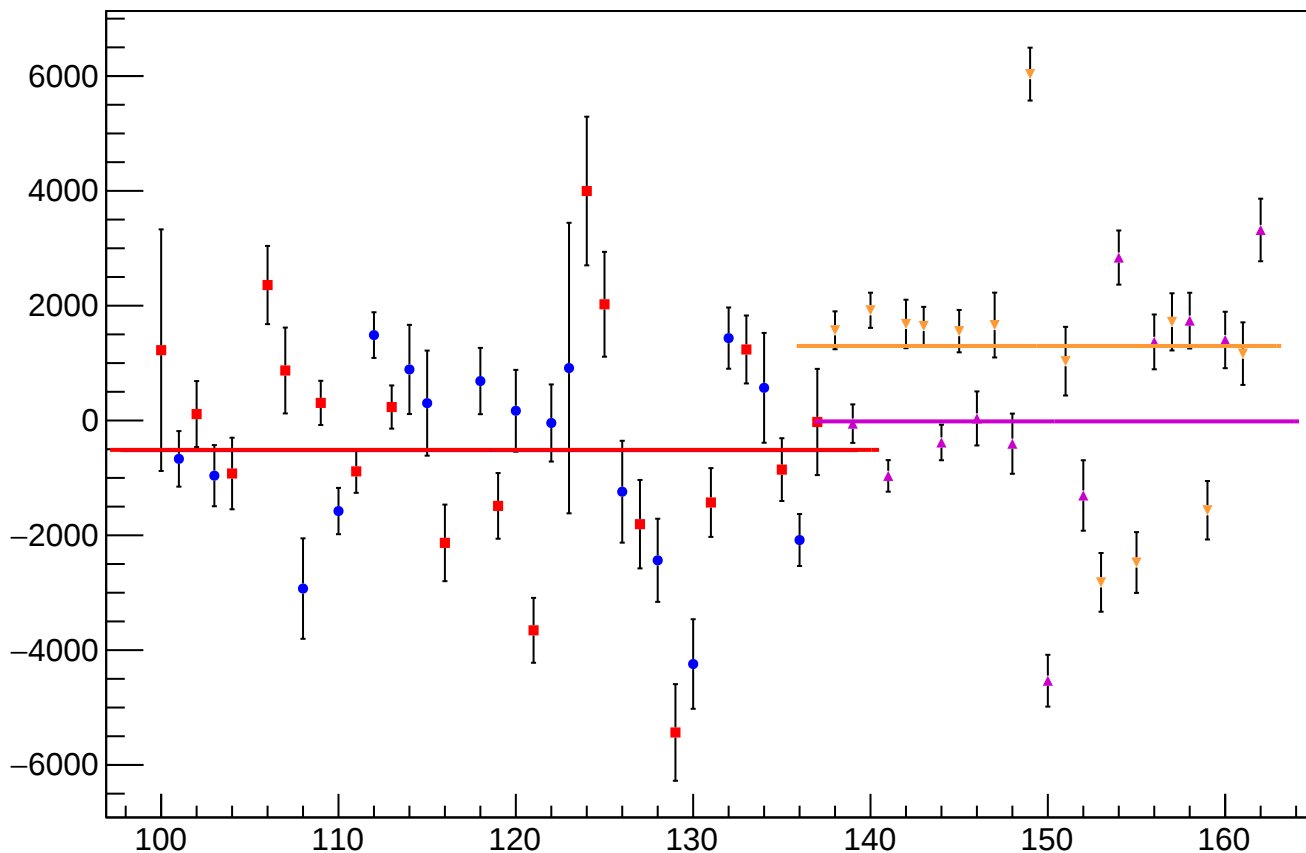
Right: 288.476 $\pm$ 0.056 χ^2/NDF : 795230.9/35

In: 286.159 $\pm$ 0.051 χ^2/NDF : 914878.9/28

Out: 293.626 $\pm$ 0.052 χ^2/NDF : 1031476.3/31

All: 289.852 $\pm$ 0.036 χ^2/NDF : 1956853.7/60

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 1298.480 ± 118.622 $\chi^2/\text{NDF}: 261.5/12$

Right Out: -511.851 ± 135.798 $\chi^2/\text{NDF}: 141.3/18$

Left In: -15.510 ± 120.509 $\chi^2/\text{NDF}: 222.2/11$

Left: 651.856 ± 84.538 $\chi^2/\text{NDF}: 544.1/24$

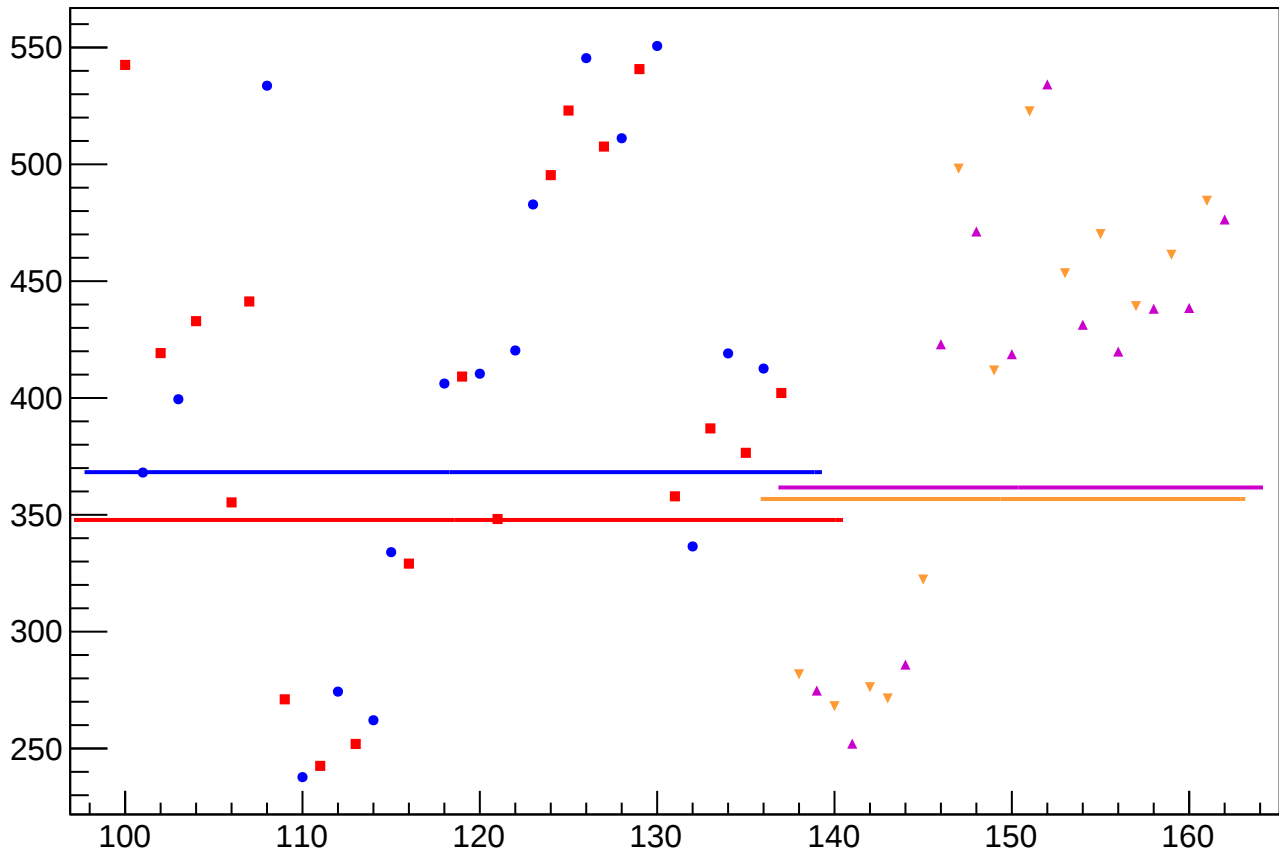
Right: -513.708 ± 99.851 $\chi^2/\text{NDF}: 249.3/35$

In: -216.098 ± 93.278 $\chi^2/\text{NDF}: 337.1/28$

Out: 514.982 ± 89.338 $\chi^2/\text{NDF}: 503.6/31$

All: 165.211 ± 64.519 $\chi^2/\text{NDF}: 872.7/60$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 356.784+/-0.084 χ^2/NDF : 1212083.6/12

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 361.700+/-0.085 χ^2/NDF : 1143097.8/11

Left: 359.203+/-0.060 χ^2/NDF : 2356871.6/24

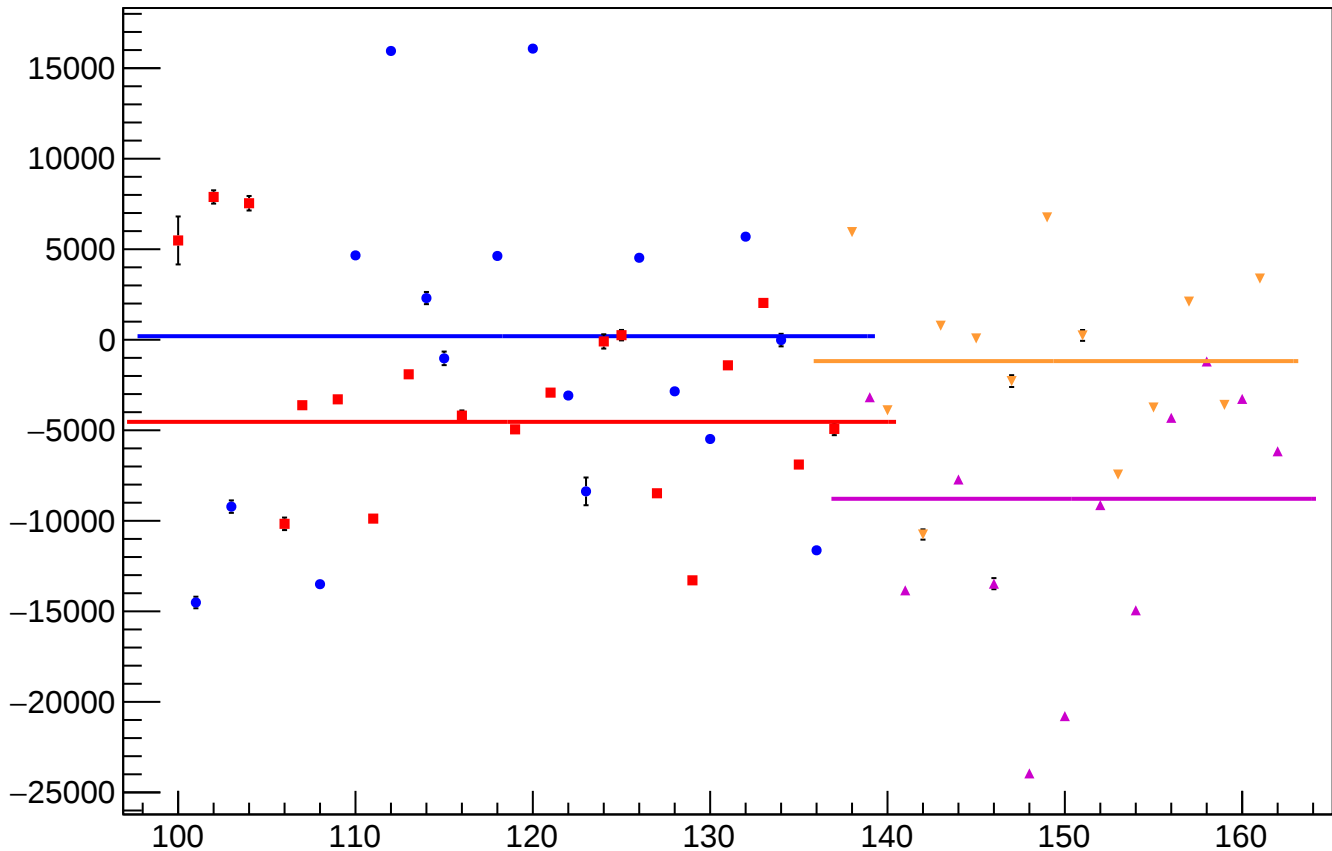
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 364.331+/-0.066 χ^2/NDF : 1915593.2/28

Out: 352.897+/-0.063 χ^2/NDF : 2038909.0/31

All: 358.367+/-0.046 χ^2/NDF : 3970177.3/60

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -1179.044+/-55.268 χ^2/NDF : 7308.1/12

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -8783.759+/-56.371 χ^2/NDF : 14007.7/11

Left: -4906.263+/-39.465 χ^2/NDF : 30595.2/24

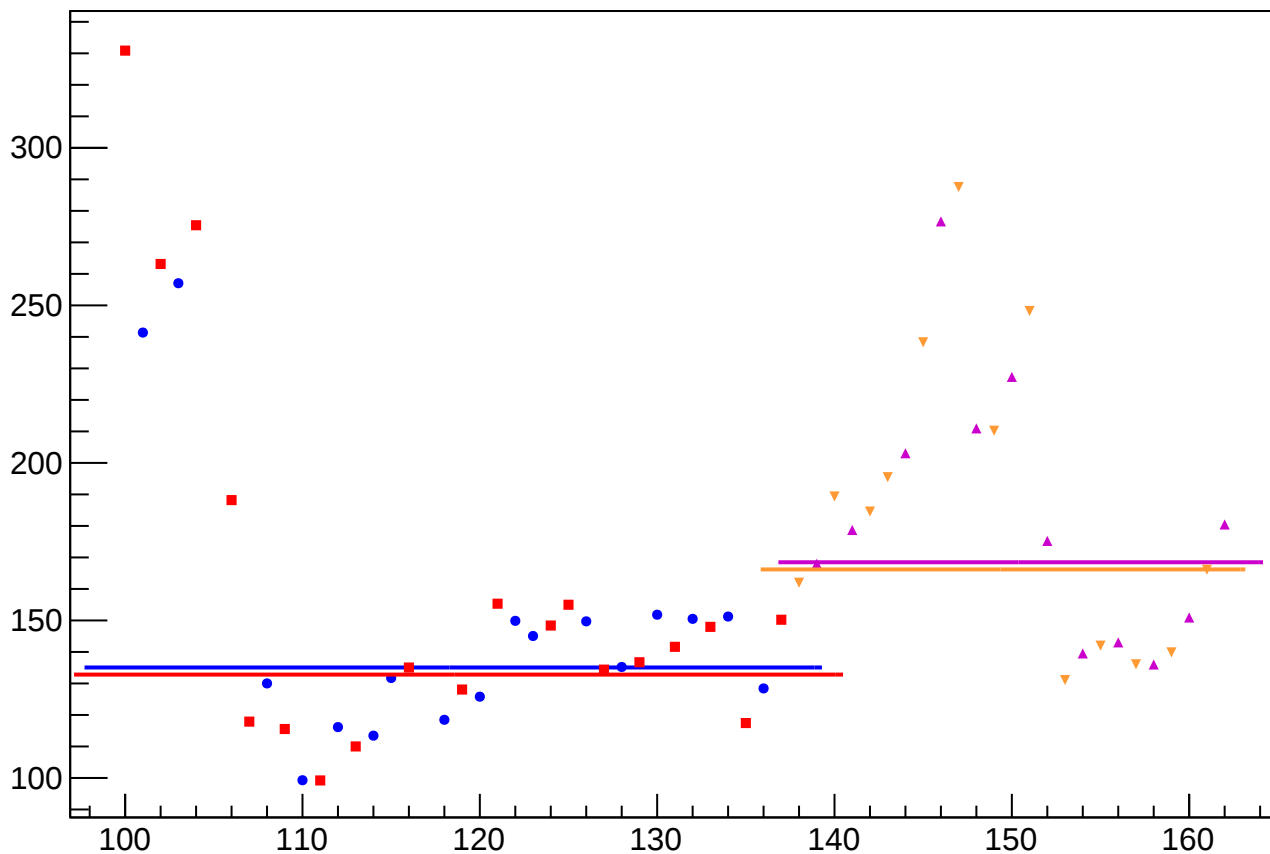
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4166.349+/-39.293 χ^2/NDF : 57715.6/28

Out: -2943.967+/-38.049 χ^2/NDF : 16723.9/31

All: -3535.515+/-27.334 χ^2/NDF : 74939.0/60

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 166.193 $\pm$ 0.039 χ^2 /NDF: 988562.8/12

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 168.469 $\pm$ 0.040 χ^2 /NDF: 720135.1/11

Left: 167.308 $\pm$ 0.028 χ^2 /NDF: 1710359.7/24

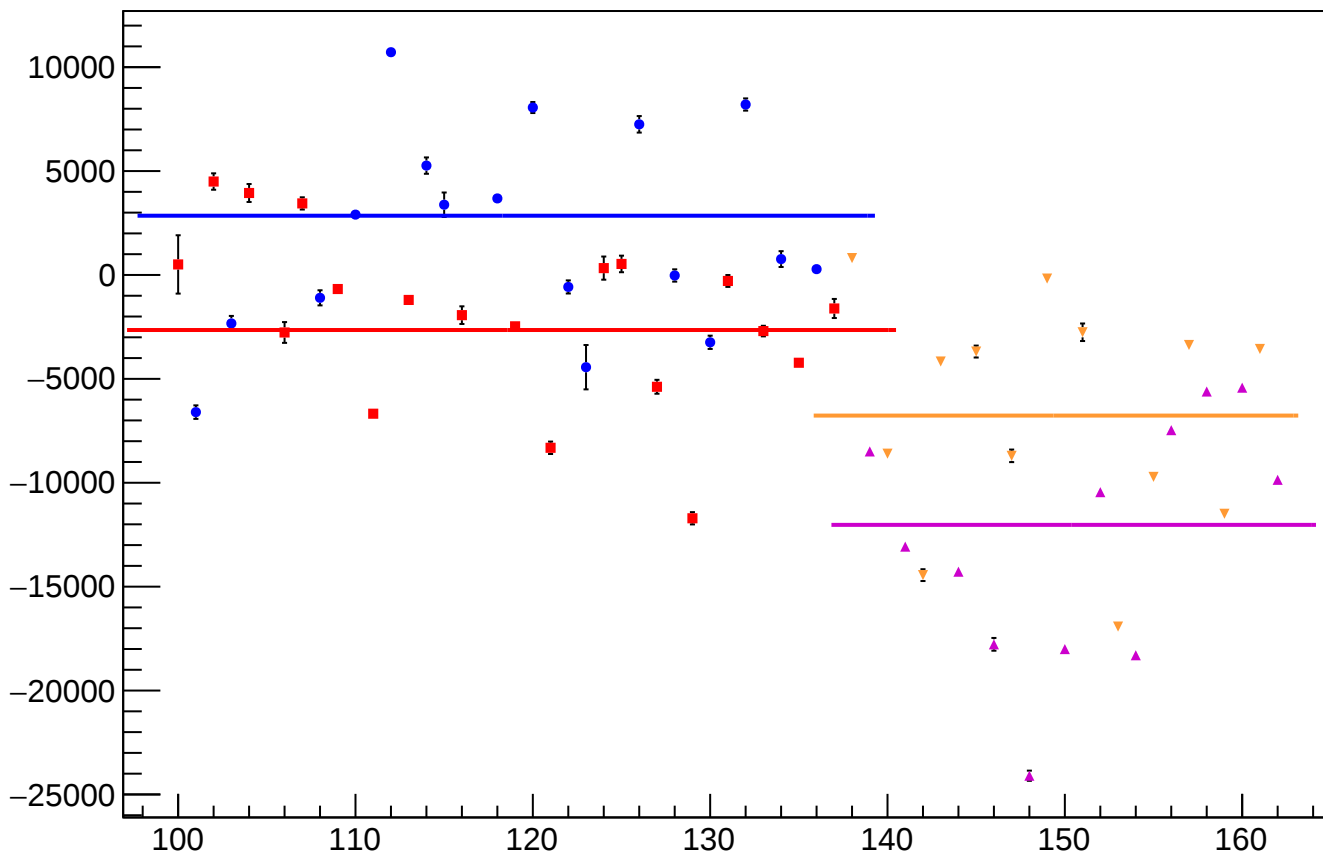
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 151.298 $\pm$ 0.028 χ^2 /NDF: 1739759.0/28

Out: 148.636 $\pm$ 0.027 χ^2 /NDF: 2203447.3/31

All: 149.924 $\pm$ 0.019 χ^2 /NDF: 3947944.1/60

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 ± 70.753 $\chi^2/\text{NDF}: 4178.1/16$

Left Out: -6767.050 ± 63.934 $\chi^2/\text{NDF}: 7402.4/12$

Right Out: -2649.142 ± 65.731 $\chi^2/\text{NDF}: 3175.7/18$

Left In: -12026.439 ± 56.755 $\chi^2/\text{NDF}: 9355.8/11$

Left: -9708.457 ± 42.444 $\chi^2/\text{NDF}: 20542.9/24$

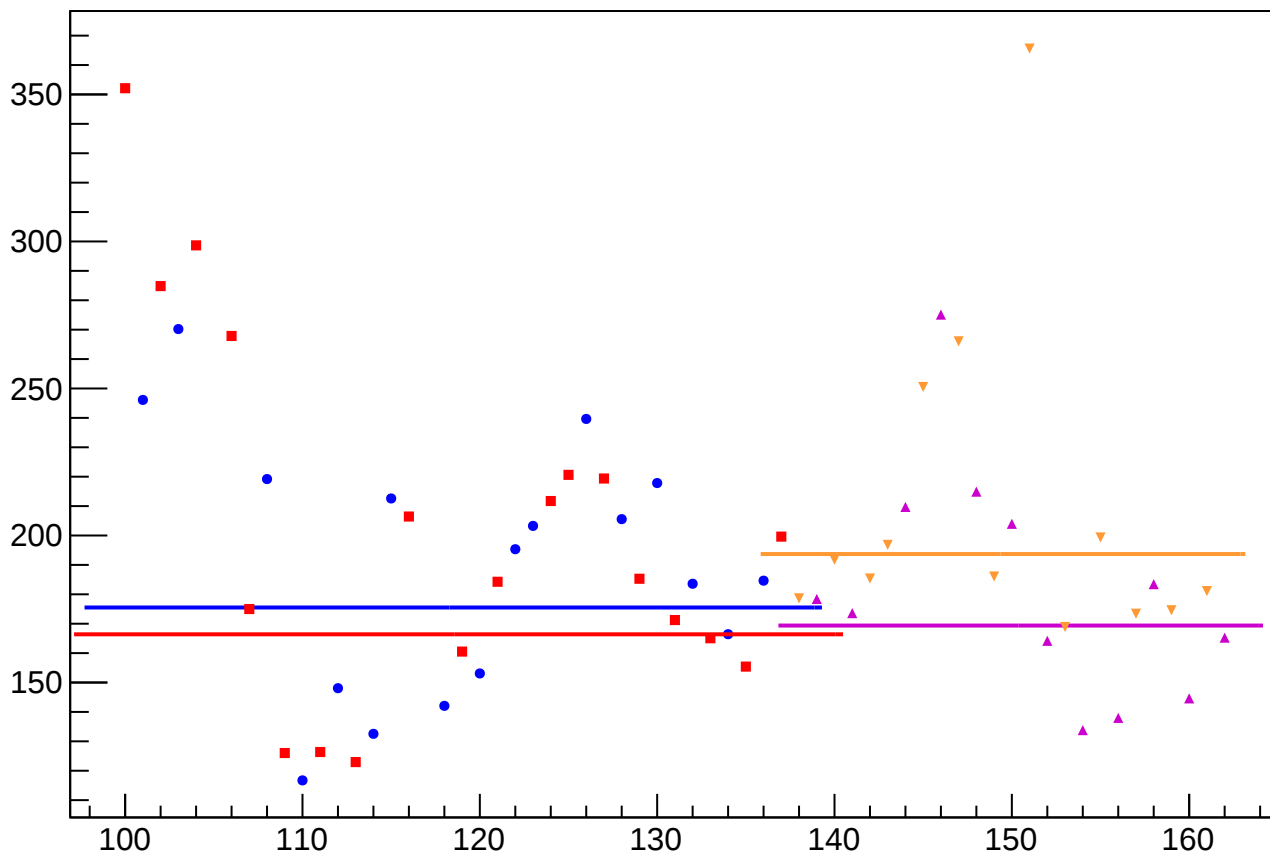
Right: -100.998 ± 48.156 $\chi^2/\text{NDF}: 10597.9/35$

In: -6201.355 ± 44.272 $\chi^2/\text{NDF}: 40438.7/28$

Out: -4765.159 ± 45.830 $\chi^2/\text{NDF}: 12594.9/31$

All: -5508.087 ± 31.842 $\chi^2/\text{NDF}: 53541.6/60$

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 193.695+/-0.045 χ^2/NDF : 619544.0/12

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 169.375+/-0.040 χ^2/NDF : 675357.8/11

Left: 180.094+/-0.030 χ^2/NDF : 1456749.7/24

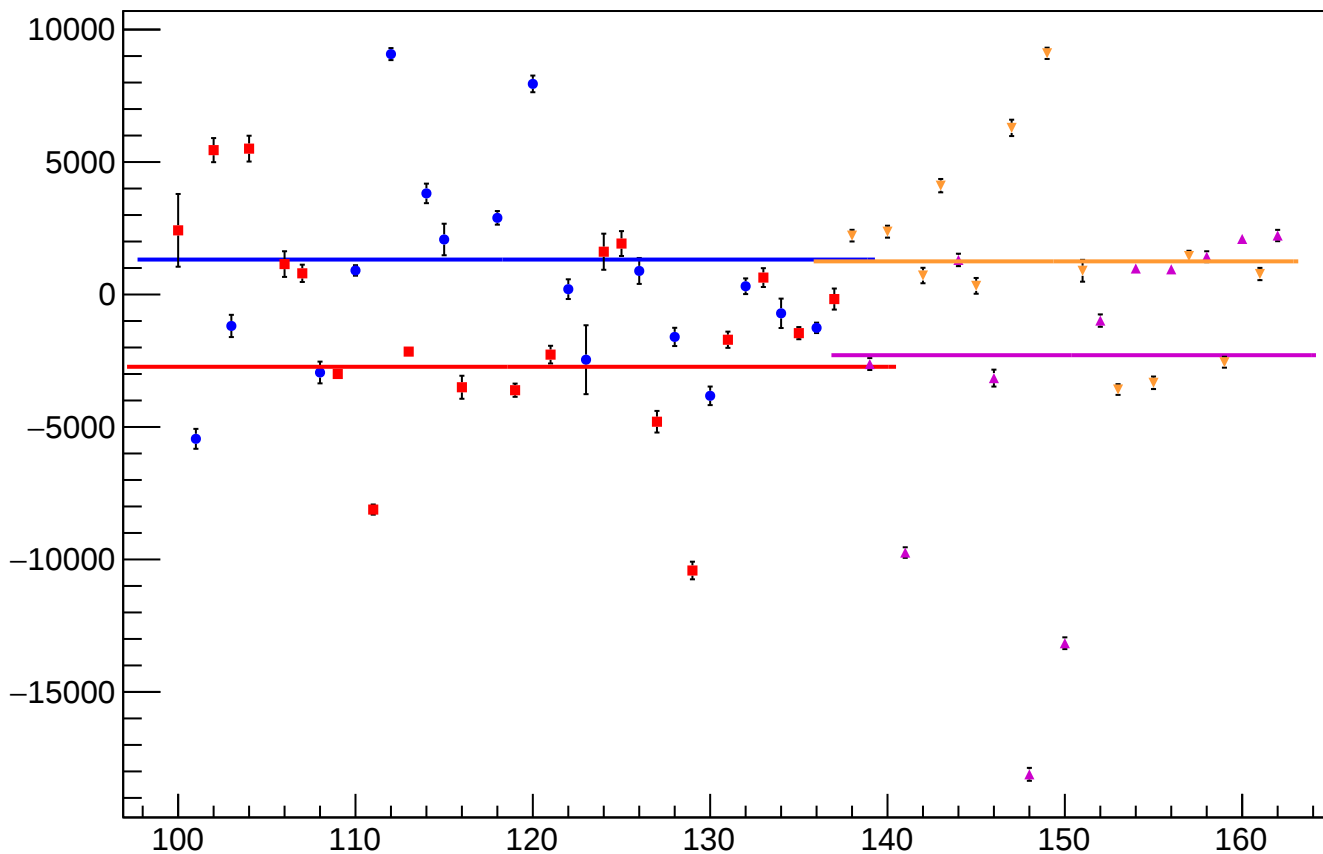
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 171.779+/-0.031 χ^2/NDF : 1374161.7/28

Out: 180.422+/-0.032 χ^2/NDF : 1726385.6/31

All: 175.951+/-0.023 χ^2/NDF : 3137345.9/60

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1250.896+/-66.362 χ^2/NDF : 3103.5/12

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -2290.621+/-58.822 χ^2/NDF : 10568.5/11

Left: -732.411+/-44.019 χ^2/NDF : 15267.0/24

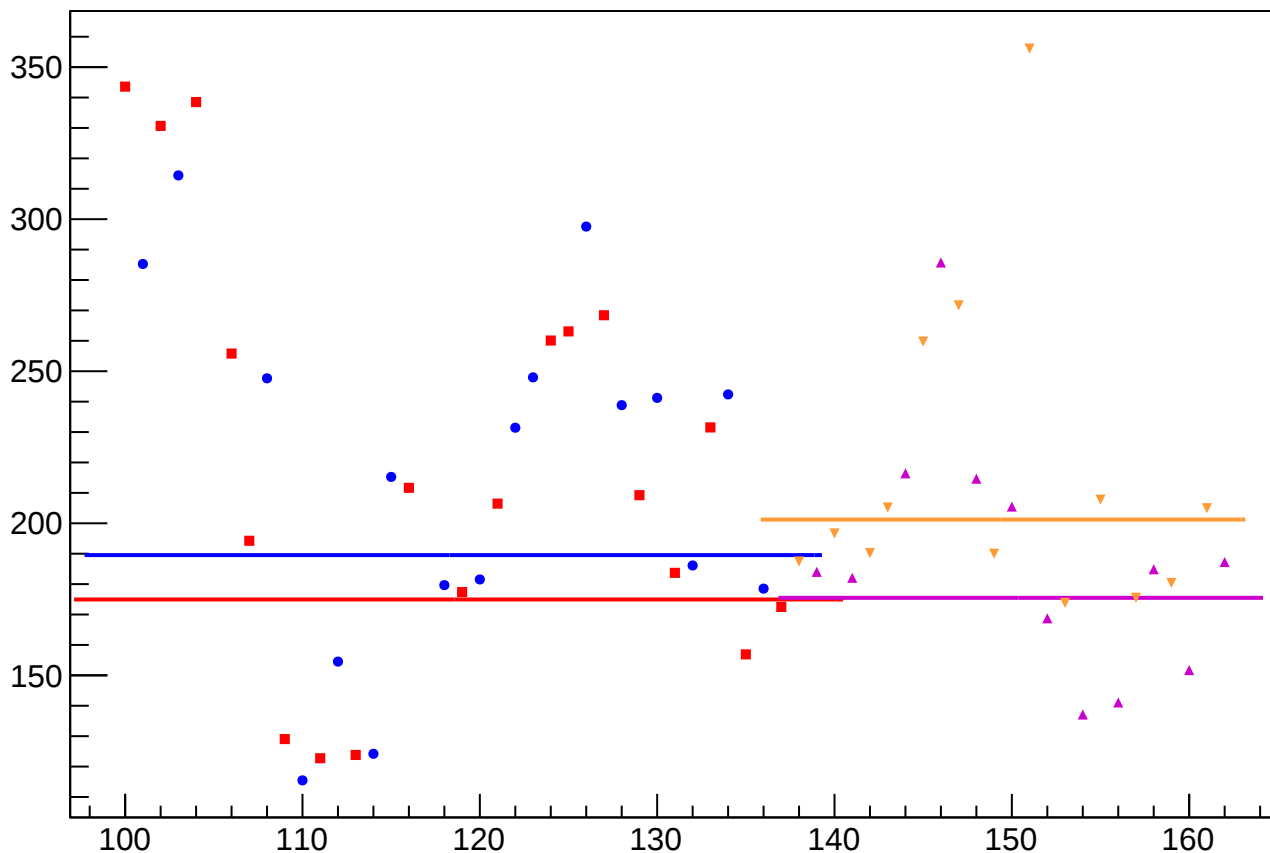
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -963.593+/-46.776 χ^2/NDF : 14619.9/28

Out: -631.545+/-48.169 χ^2/NDF : 7300.1/31

All: -802.442+/-33.557 χ^2/NDF : 21944.5/60

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.227 $\pm$ 0.047 χ^2 /NDF: 573454.3/12

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 175.486 $\pm$ 0.042 χ^2 /NDF: 660090.4/11

Left: 186.812 $\pm$ 0.031 χ^2 /NDF: 1402072.9/24

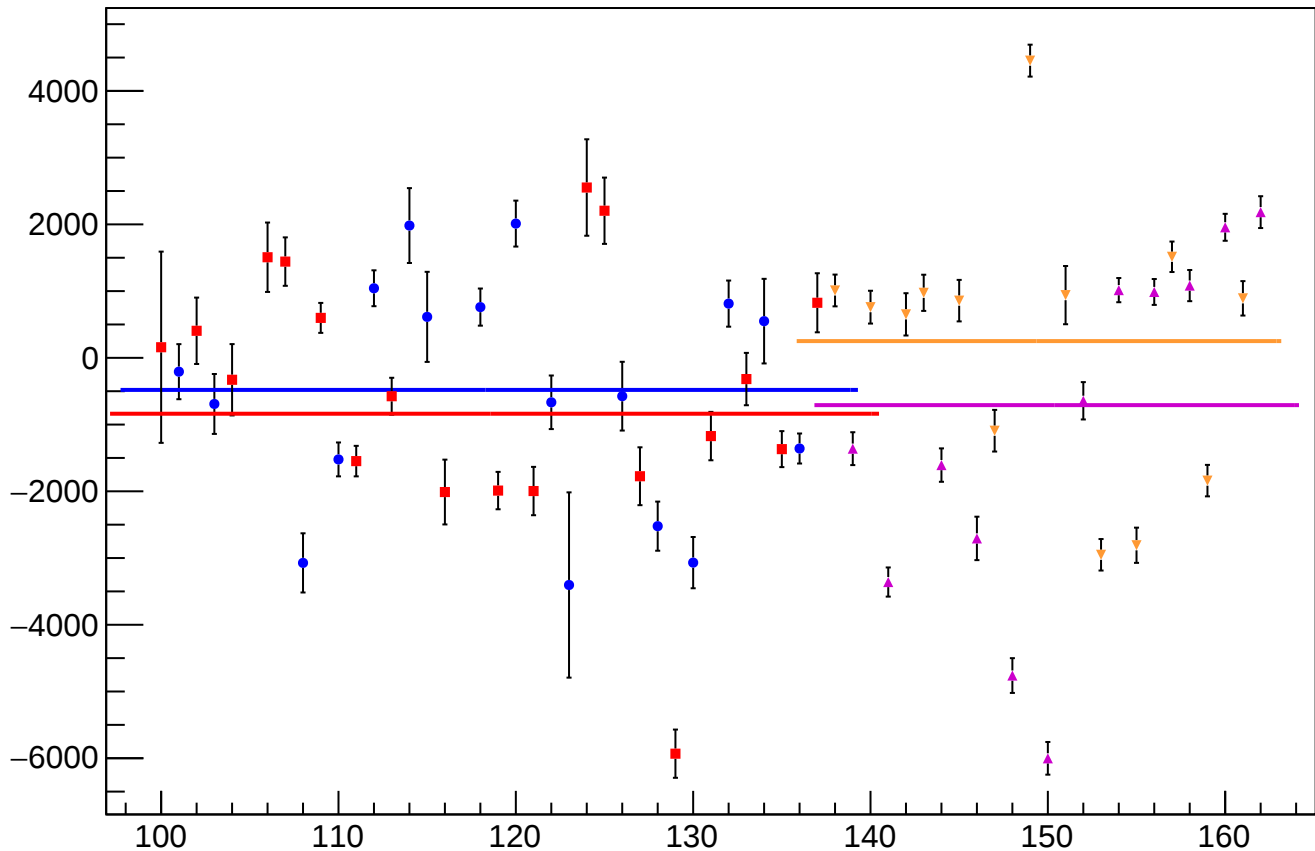
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 180.654 $\pm$ 0.033 χ^2 /NDF: 1682838.0/28

Out: 188.792 $\pm$ 0.034 χ^2 /NDF: 2018999.4/31

All: 184.604 $\pm$ 0.024 χ^2 /NDF: 3731215.4/60

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 250.995 ± 73.401 χ^2/NDF : 790.3/12

Right Out: -837.442 ± 82.243 χ^2/NDF : 435.3/18

Left In: -708.645 ± 66.748 χ^2/NDF : 1460.5/11

Left: -274.278 ± 49.383 χ^2/NDF : 2344.4/24

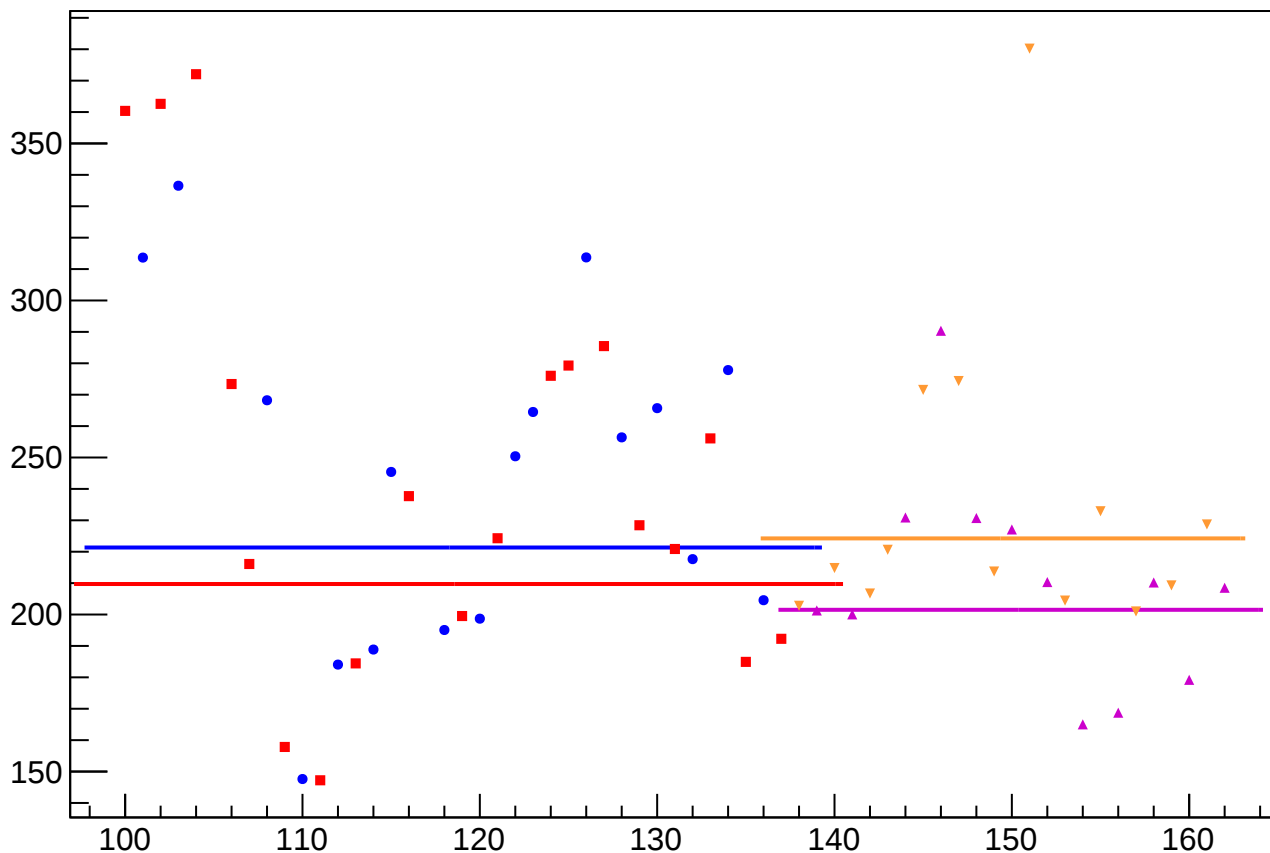
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -626.118 ± 53.321 χ^2/NDF : 1755.5/28

Out: -231.589 ± 54.763 χ^2/NDF : 1323.1/31

All: -434.115 ± 38.203 χ^2/NDF : 3105.2/60

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.239 $\pm$ 0.052 χ^2 /NDF: 428532.6/12

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 201.505 $\pm$ 0.047 χ^2 /NDF: 392594.3/11

Left: 211.795 $\pm$ 0.035 χ^2 /NDF: 926143.5/24

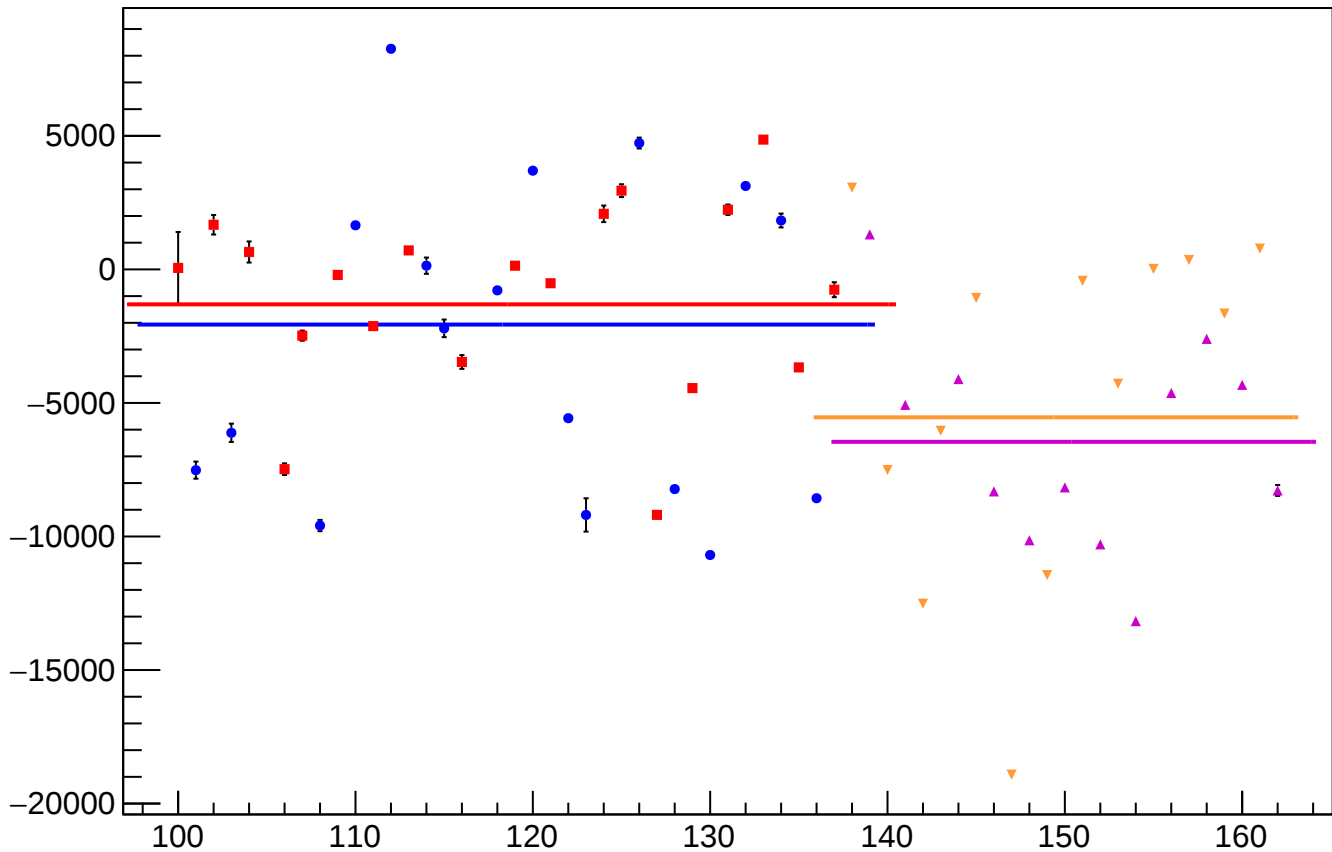
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 208.683 $\pm$ 0.038 χ^2 /NDF: 1102204.3/28

Out: 217.800 $\pm$ 0.039 χ^2 /NDF: 1347161.9/31

All: 213.120 $\pm$ 0.027 χ^2 /NDF: 2477822.0/60

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -5537.962 $\pm$ 39.110 χ^2/NDF : 28139.2/12

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -6455.789 $\pm$ 39.960 χ^2/NDF : 8747.7/11

Left: -5987.017 $\pm$ 27.951 χ^2/NDF : 37156.3/24

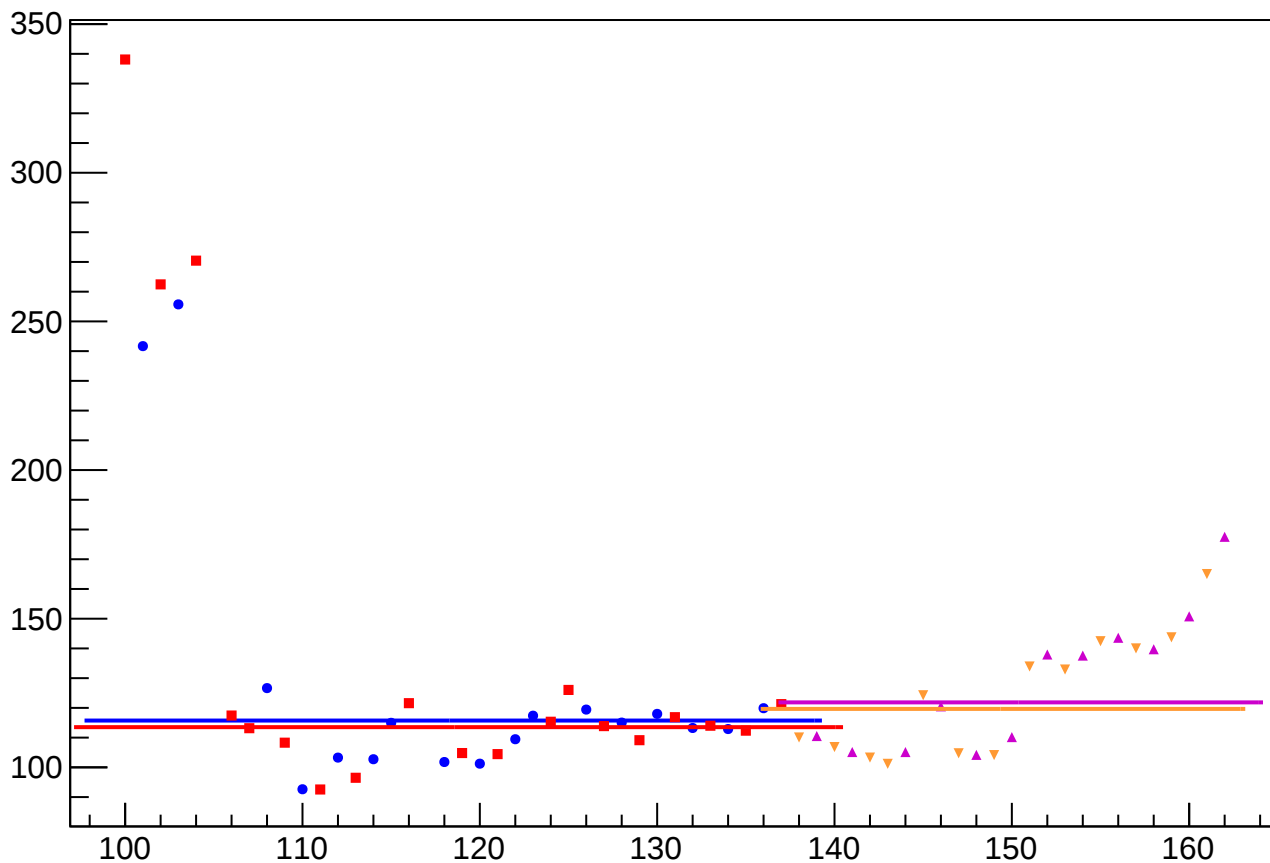
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4628.206 $\pm$ 30.531 χ^2/NDF : 30306.2/28

Out: -3717.990 $\pm$ 29.520 χ^2/NDF : 39065.8/31

All: -4157.776 $\pm$ 21.222 χ^2/NDF : 69831.4/60

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 119.657+/-0.028 χ^2/NDF : 436390.0/12

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 121.851+/-0.028 χ^2/NDF : 476586.7/11

Left: 120.731+/-0.020 χ^2/NDF : 916056.9/24

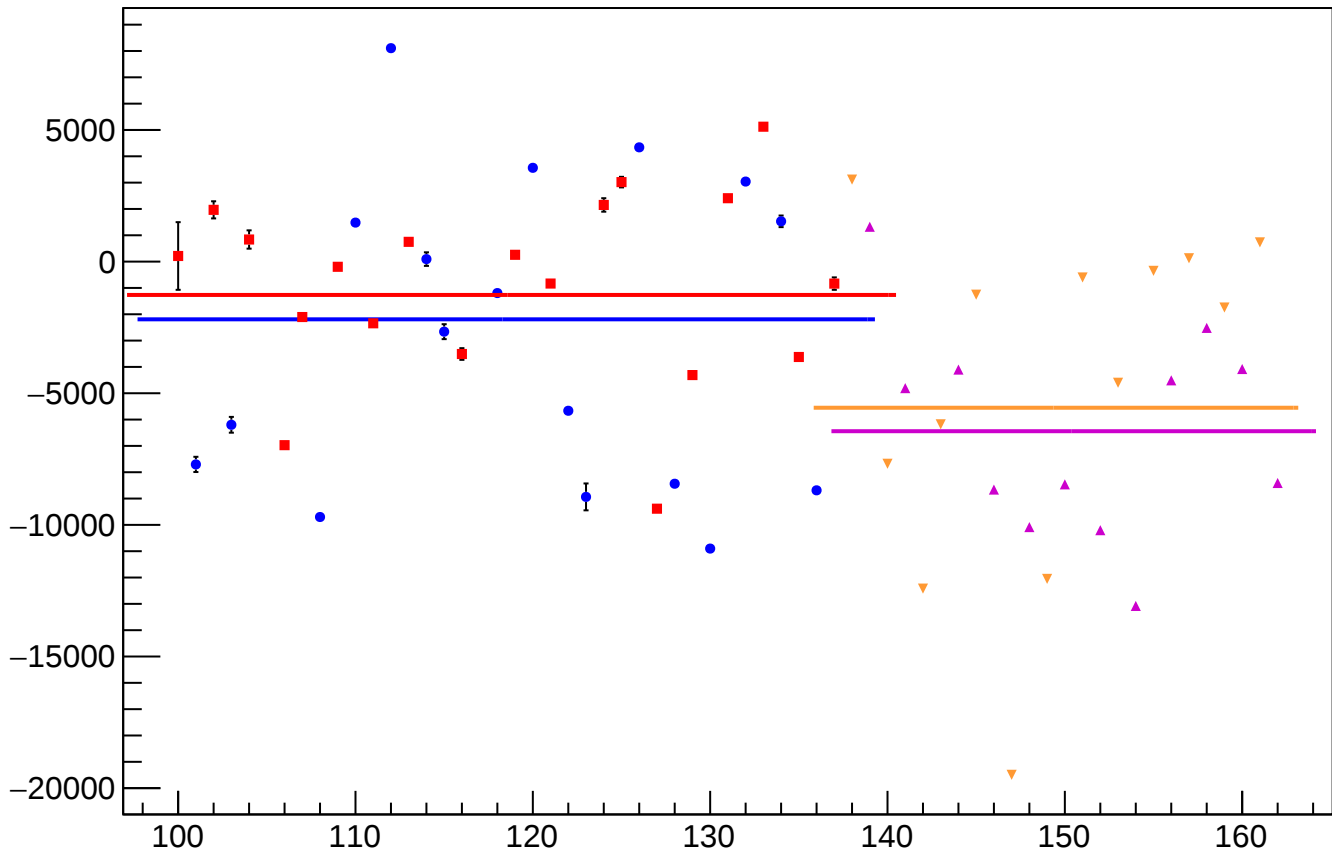
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 119.308+/-0.022 χ^2/NDF : 1240073.3/28

Out: 117.016+/-0.021 χ^2/NDF : 1254228.3/31

All: 118.123+/-0.015 χ^2/NDF : 2500126.7/60

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -5550.625 ± 35.390 $\chi^2/\text{NDF}: 34199.5/12$

Right Out: -1266.189 ± 38.048 $\chi^2/\text{NDF}: 8550.5/18$

Left In: -6442.066 ± 36.610 $\chi^2/\text{NDF}: 10919.7/11$

Left: -5981.246 ± 25.445 $\chi^2/\text{NDF}: 45425.7/24$

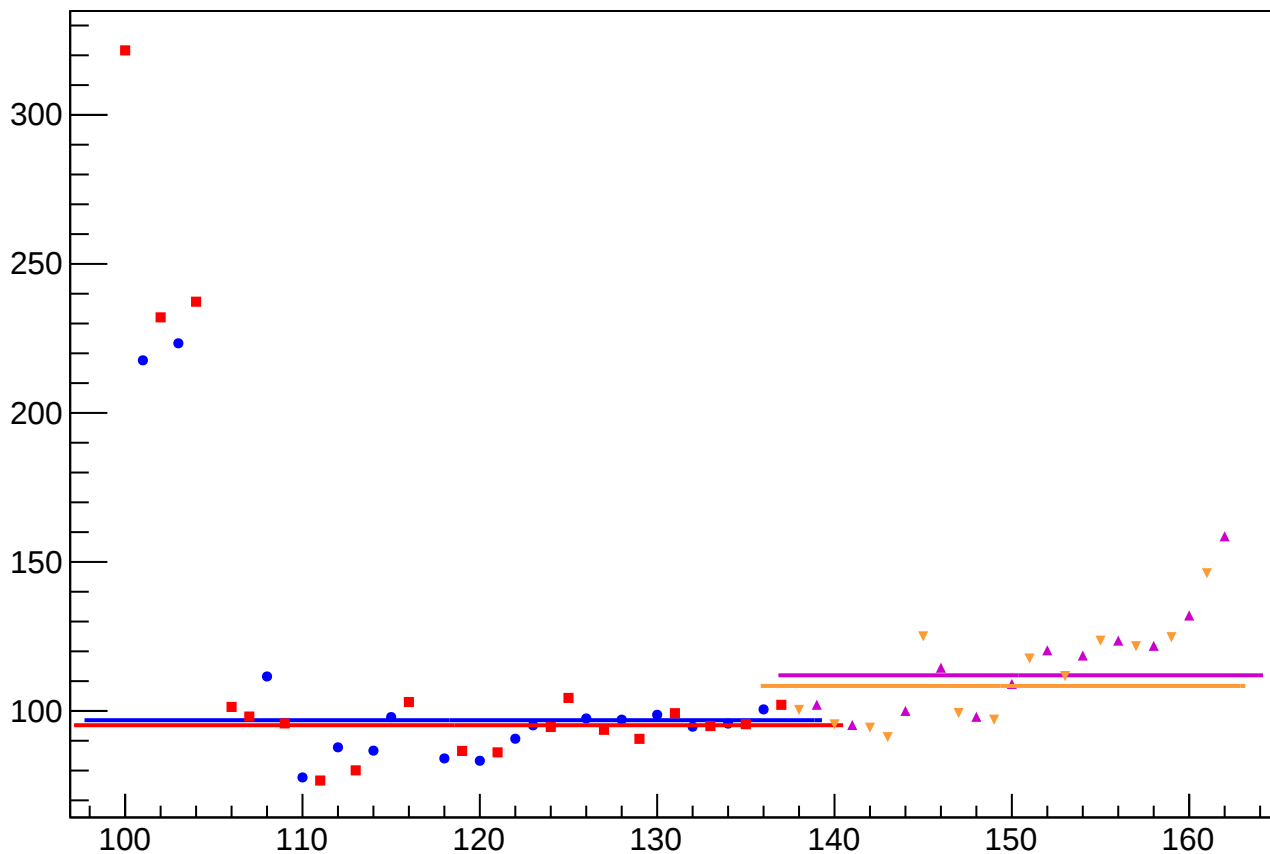
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4501.913 ± 26.989 $\chi^2/\text{NDF}: 39884.9/28$

Out: -3563.261 ± 25.913 $\chi^2/\text{NDF}: 49548.3/31$

All: -4013.510 ± 18.692 $\chi^2/\text{NDF}: 90062.6/60$

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16

Left Out: 108.391+/-0.025 χ^2/NDF : 347273.1/12

Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18

Left In: 111.961+/-0.026 χ^2/NDF : 325691.2/11

Left: 110.115+/-0.018 χ^2/NDF : 682794.9/24

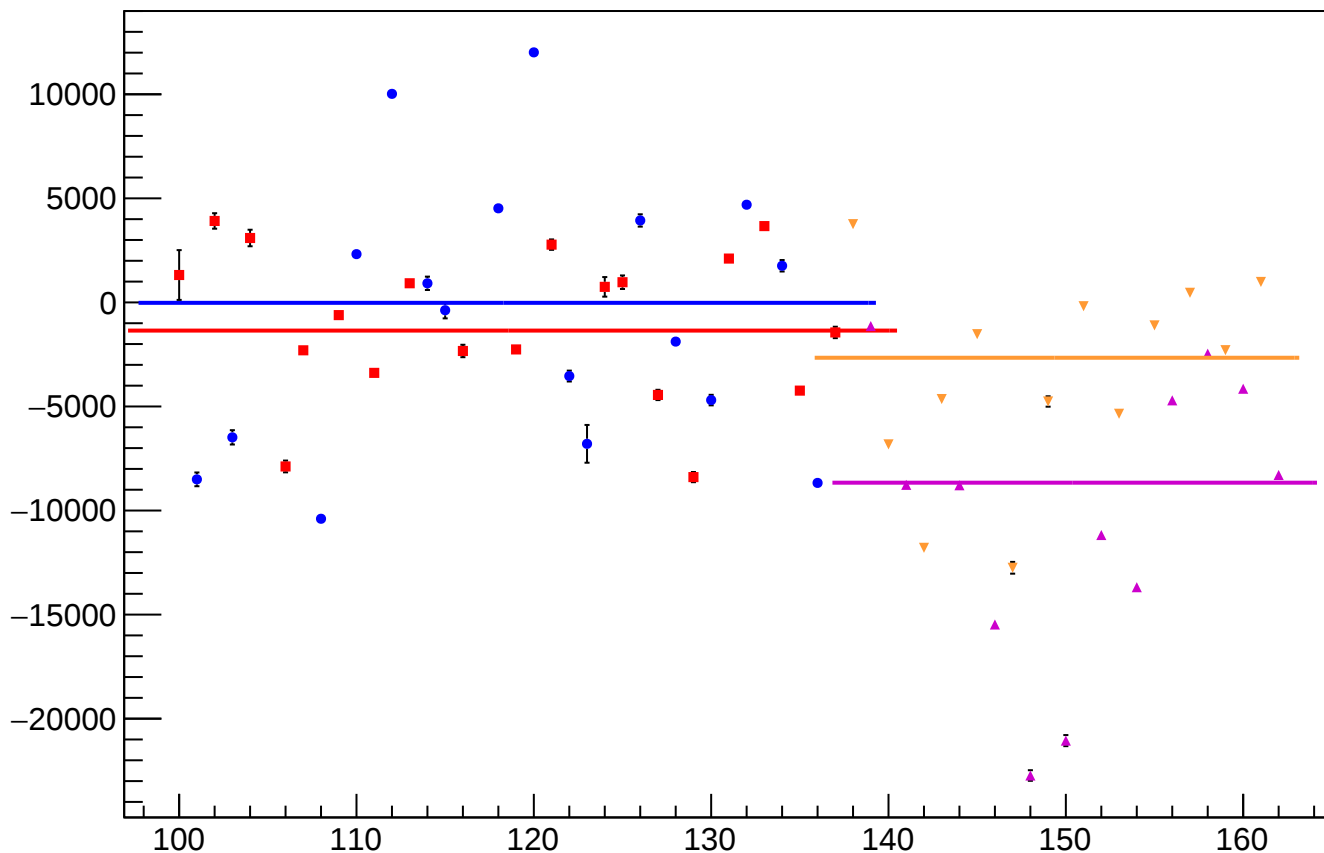
Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35

In: 105.082+/-0.019 χ^2/NDF : 1297567.6/28

Out: 102.278+/-0.018 χ^2/NDF : 1335699.2/31

All: 103.623+/-0.013 χ^2/NDF : 2644497.7/60

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2658.788 ± 50.707 $\chi^2/\text{NDF}: 6619.7/12$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -8661.897 ± 52.886 $\chi^2/\text{NDF}: 11954.0/11$

Left: -5534.153 ± 36.601 $\chi^2/\text{NDF}: 25286.9/24$

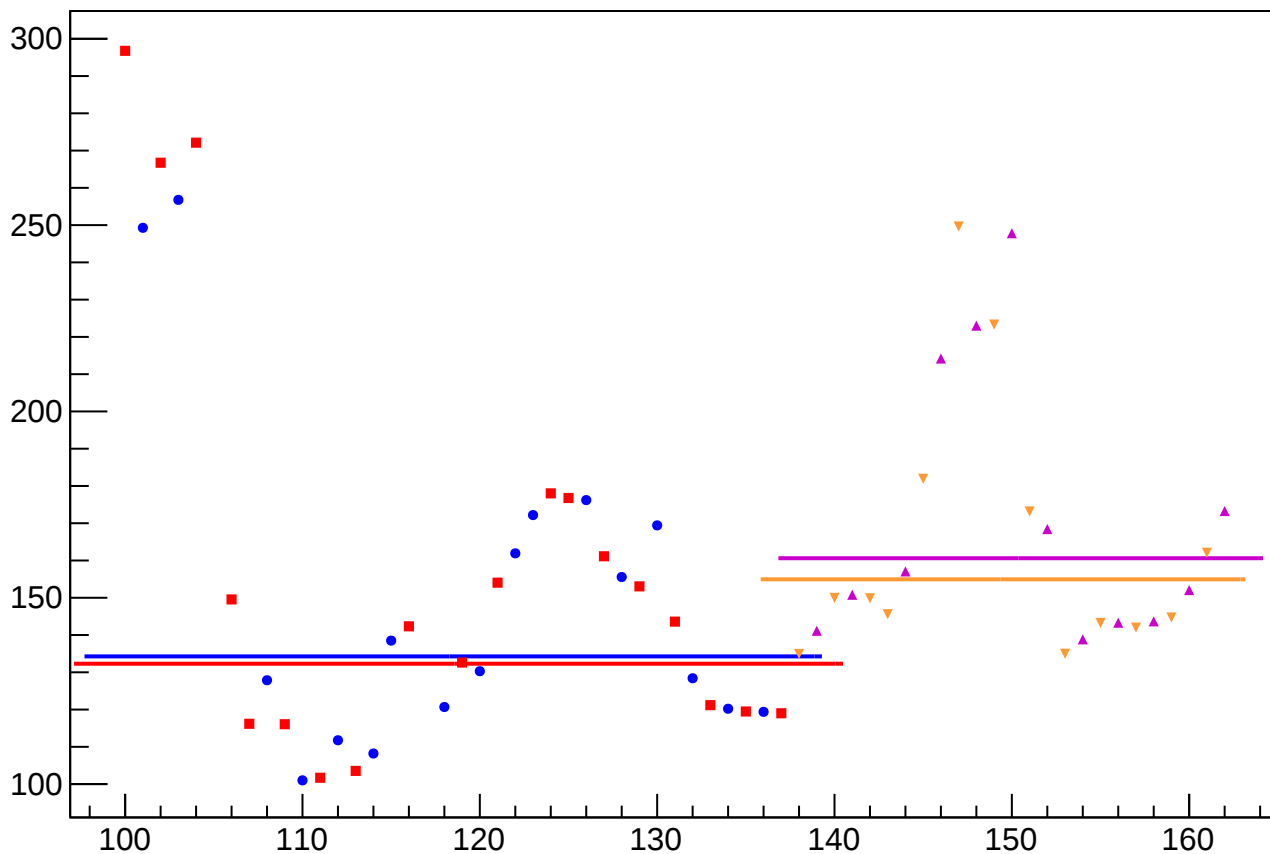
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4482.185 ± 38.002 $\chi^2/\text{NDF}: 41229.7/28$

Out: -2027.137 ± 36.428 $\chi^2/\text{NDF}: 10777.5/31$

All: -3202.762 ± 26.297 $\chi^2/\text{NDF}: 54182.2/60$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2/NDF : 788647.0/16

Left Out: 154.955 $\pm$ 0.036 χ^2/NDF : 532841.8/12

Right Out: 132.302 $\pm$ 0.037 χ^2/NDF : 869892.7/18

Left In: 160.612 $\pm$ 0.037 χ^2/NDF : 570587.0/11

Left: 157.665 $\pm$ 0.026 χ^2/NDF : 1115354.1/24

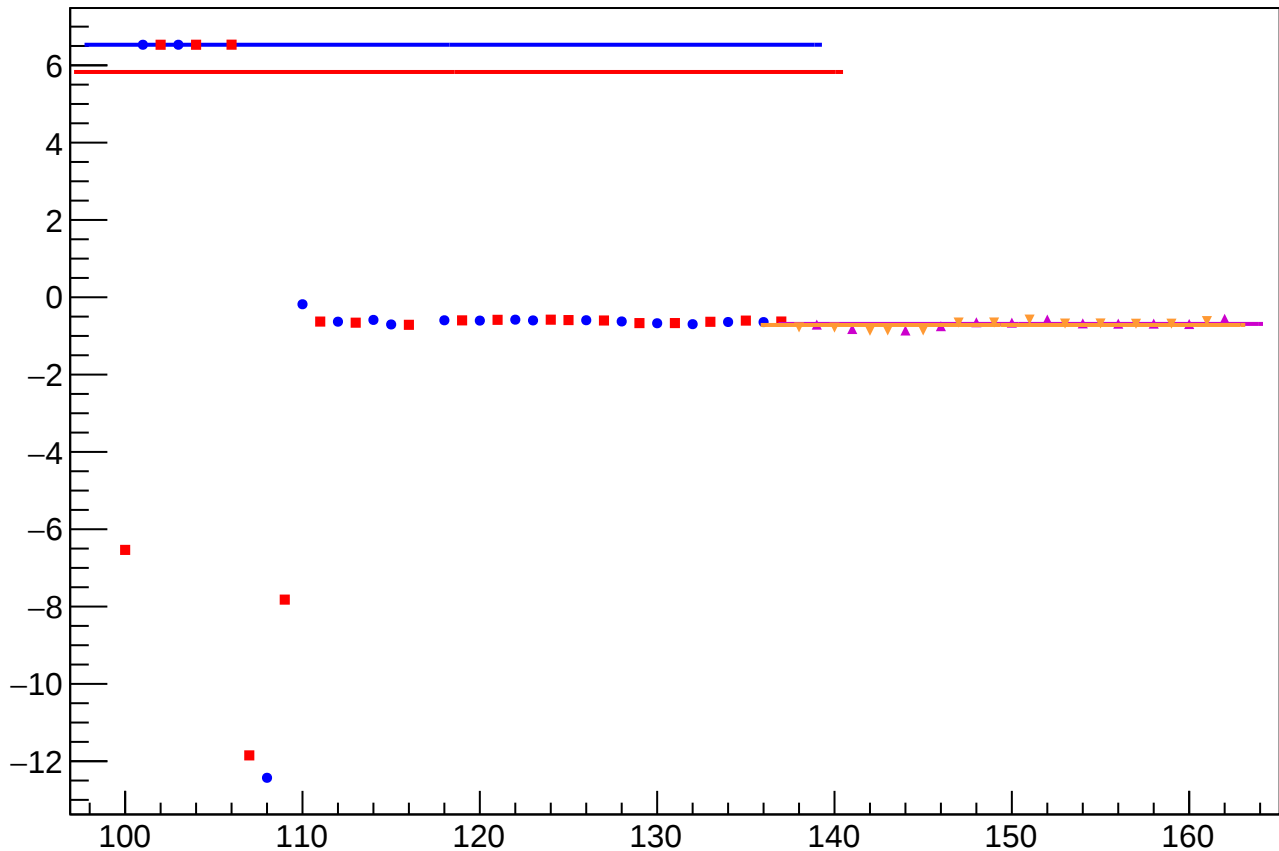
Right: 133.243 $\pm$ 0.027 χ^2/NDF : 1659888.5/35

In: 147.871 $\pm$ 0.027 χ^2/NDF : 1599273.2/28

Out: 143.993 $\pm$ 0.026 χ^2/NDF : 1595882.1/31

All: 145.850 $\pm$ 0.019 χ^2/NDF : 3206005.9/60

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.716+/-0.000 χ^2/NDF : 83243006.1/12

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.689+/-0.000 χ^2/NDF : 73304625.6/11

Left: -0.703+/-0.000 χ^2/NDF : 159725090.4/24

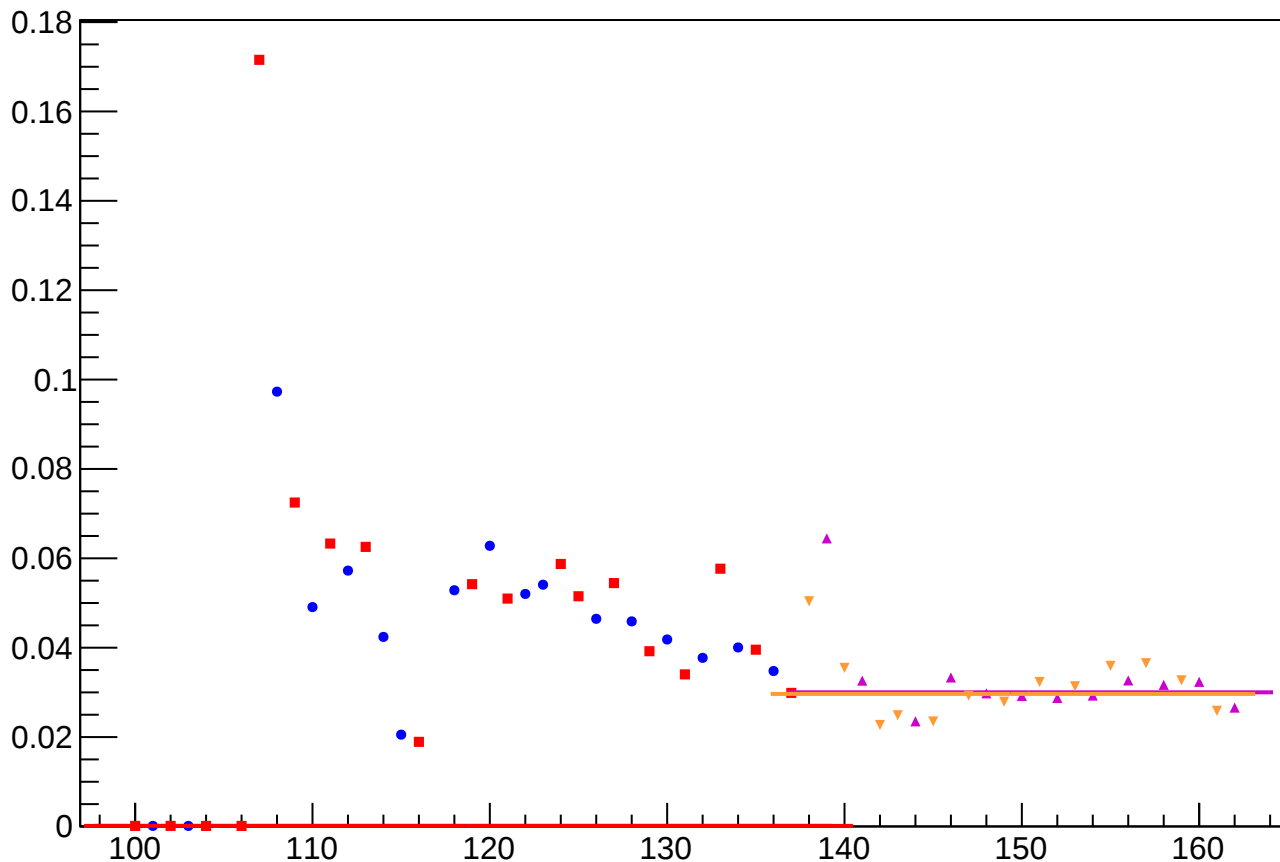
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/16

In: 6.531+/-0.000 χ^2/NDF : 575557802736.9/28

Out: 5.827+/-0.000 χ^2/NDF : 756319974716988.9/32

All: 6.154+/-0.000 χ^2/NDF : 77689136982011.0/40

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 548336.8/12

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.030+/-0.000 χ^2/NDF : 536711.8/11

Left: 0.030+/-0.000 χ^2/NDF : 1086132.1/24

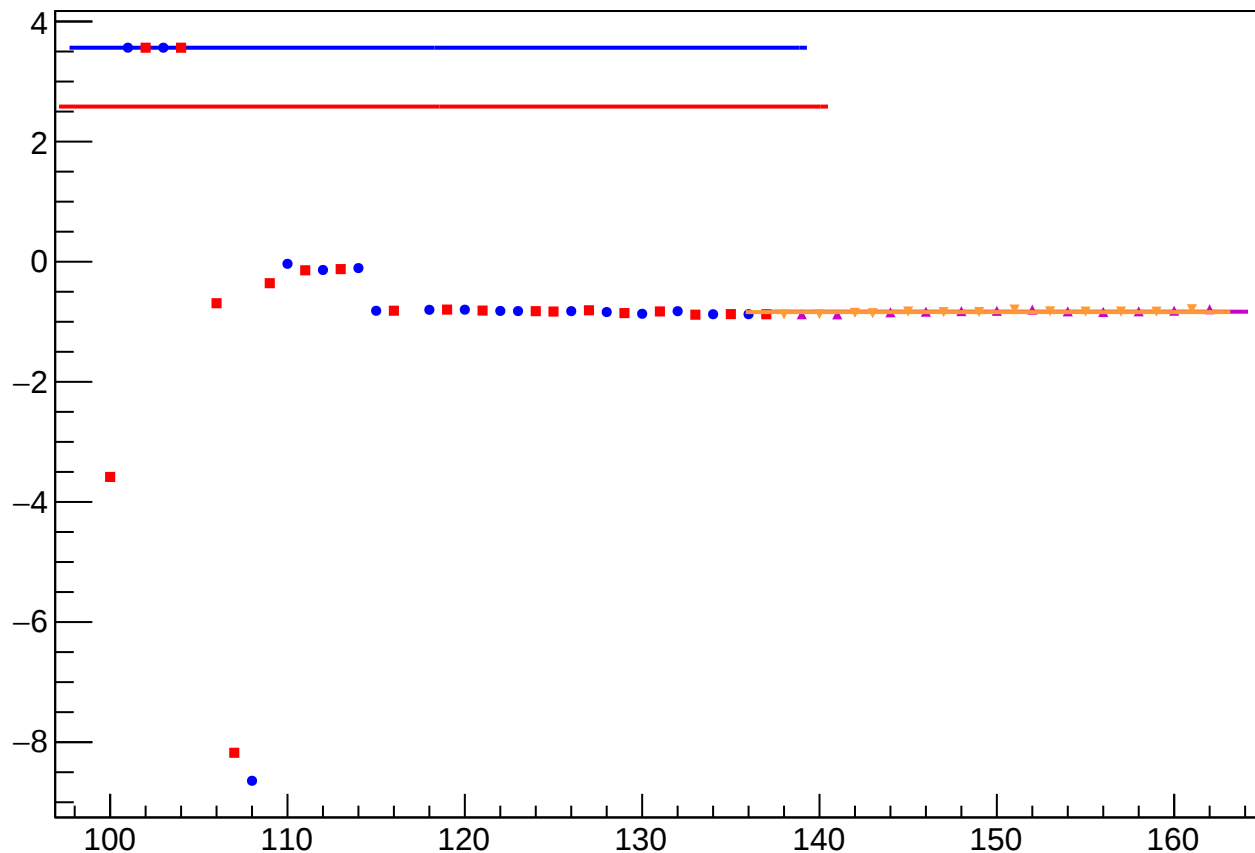
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 24903397.6/28

Out: 0.000+/-0.000 χ^2/NDF : 25049644.6/31

All: 0.000+/-0.000 χ^2/NDF : 49953436.1/60

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.839+/-0.000 χ^2/NDF : 64897758.4/12

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.832+/-0.000 χ^2/NDF : 71665330.7/11

Left: -0.835+/-0.000 χ^2/NDF : 138465669.1/24

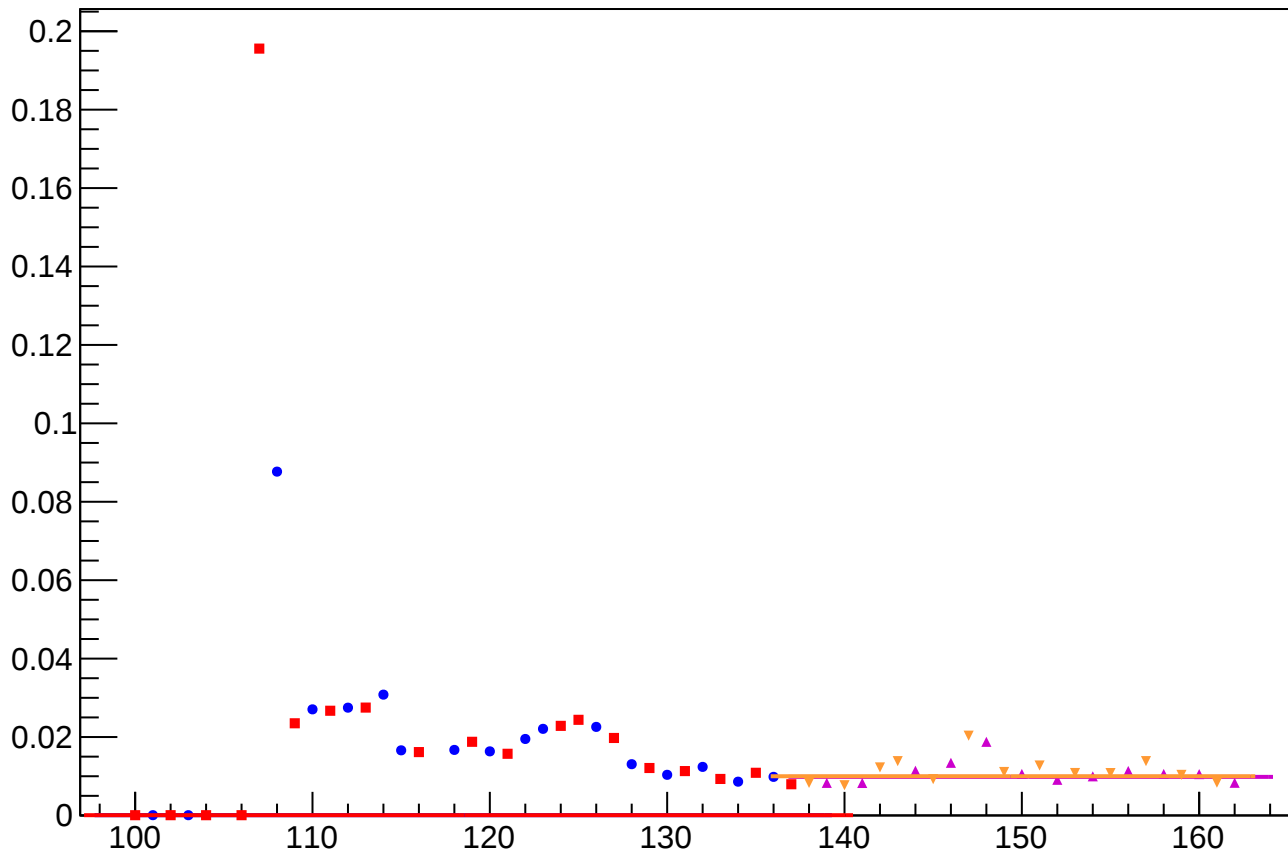
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.562+/-0.000 χ^2/NDF : 1975411014381.3/28

Out: 2.583+/-0.000 χ^2/NDF : 1254363965493296.8

All: 3.039+/-0.000 χ^2/NDF : 13845217943382

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.010+/-0.000 χ^2/NDF : 868018.3/12

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.010+/-0.000 χ^2/NDF : 612597.3/11

Left: 0.010+/-0.000 χ^2/NDF : 1482551.3/24

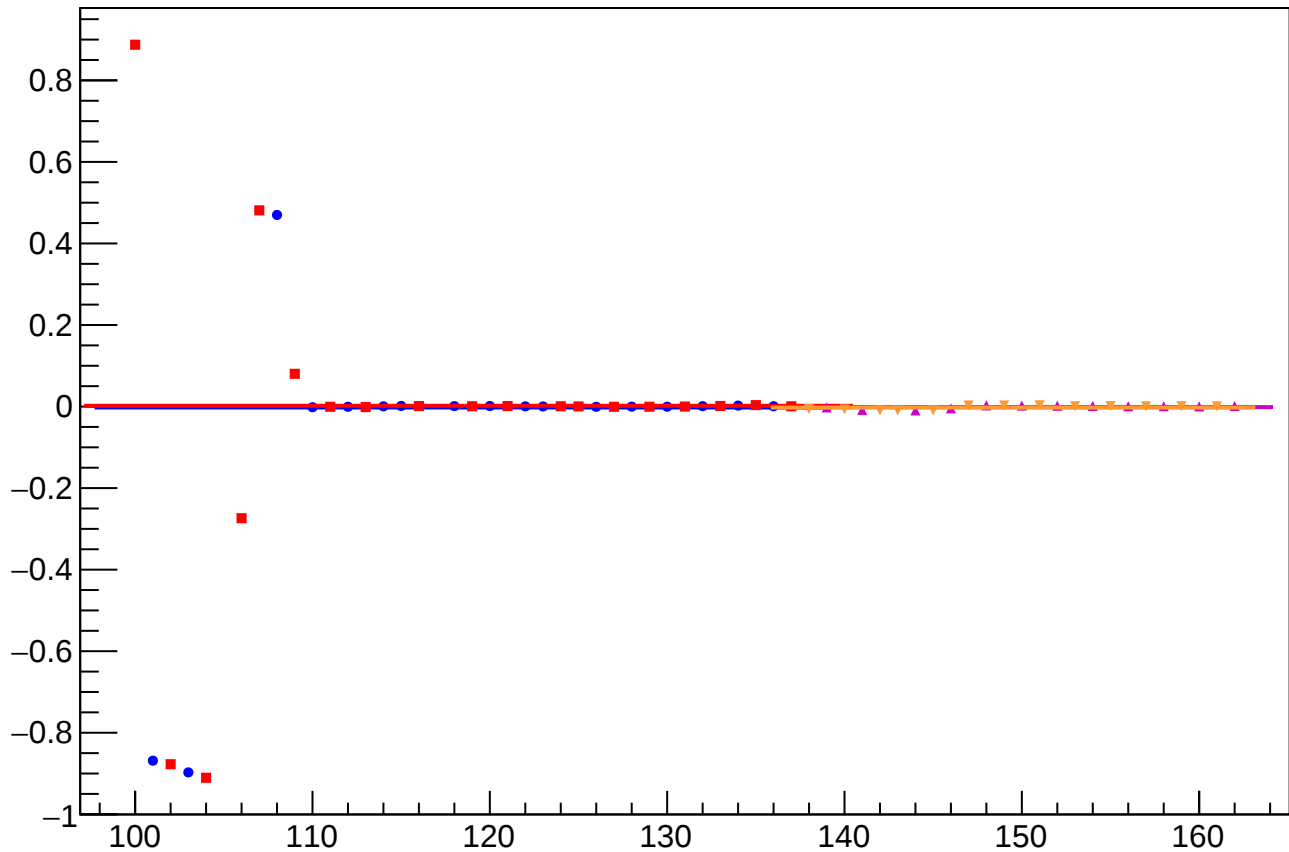
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF : 25168635.1/28

Out: 0.000+/-0.000 χ^2/NDF : 25207526.2/31

All: 0.000+/-0.000 χ^2/NDF : 50376756.6/60

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2 /NDF: 9795424036.3/16

Left Out: -0.002+/-0.000 χ^2 /NDF: 81859088.3/12

Right Out: 0.002+/-0.000 χ^2 /NDF: 3041331104.7/18

Left In: -0.001+/-0.000 χ^2 /NDF: 60373962.1/11

Left: -0.002+/-0.000 χ^2 /NDF: 144287164.9/24

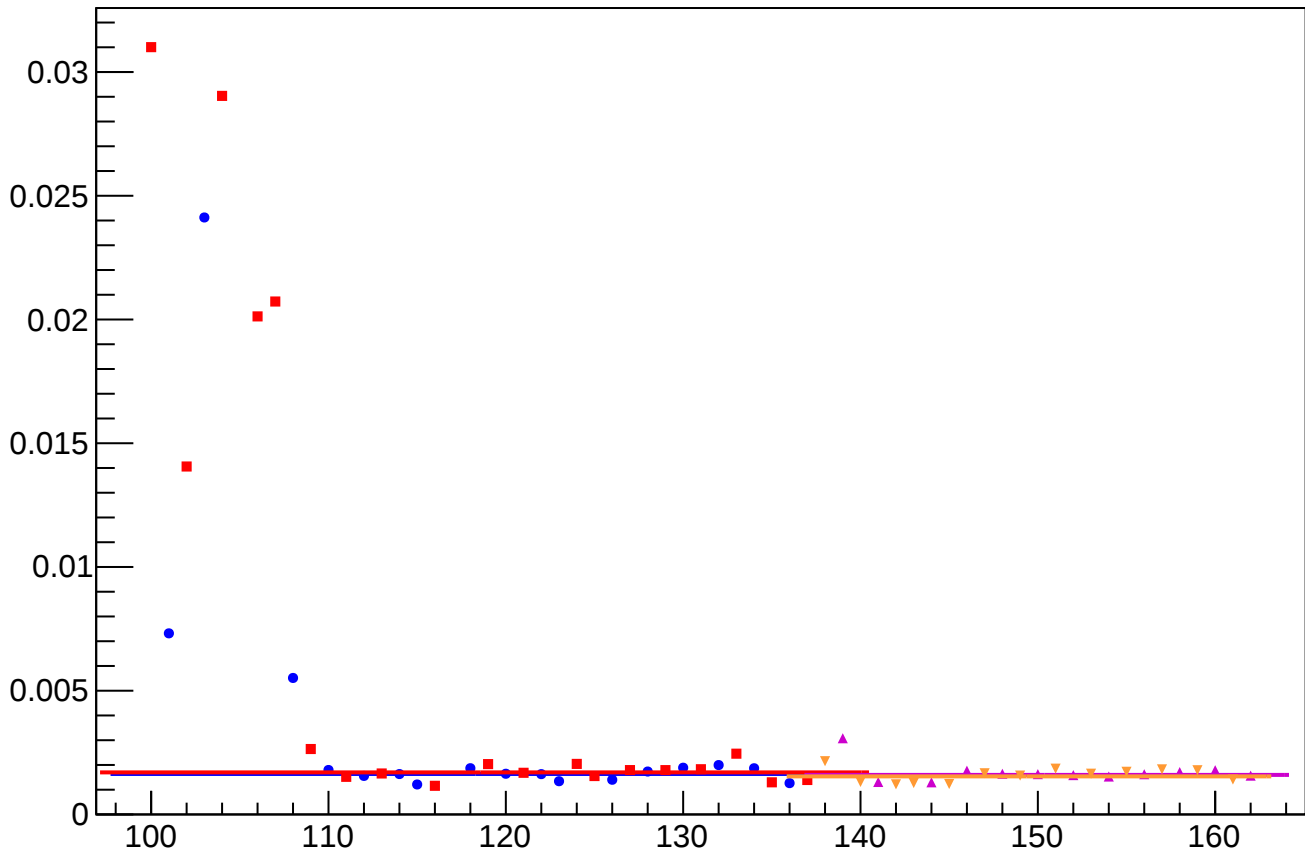
Right: -0.000+/-0.000 χ^2 /NDF: 12850559659.8/35

In: -0.002+/-0.000 χ^2 /NDF: 9856749597.1/28

Out: -0.001+/-0.000 χ^2 /NDF: 3142865496.7/31

All: -0.001+/-0.000 χ^2 /NDF: 13000473402.8/35

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 414197.3/12

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF: 472259.7/11

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 897520.3/24

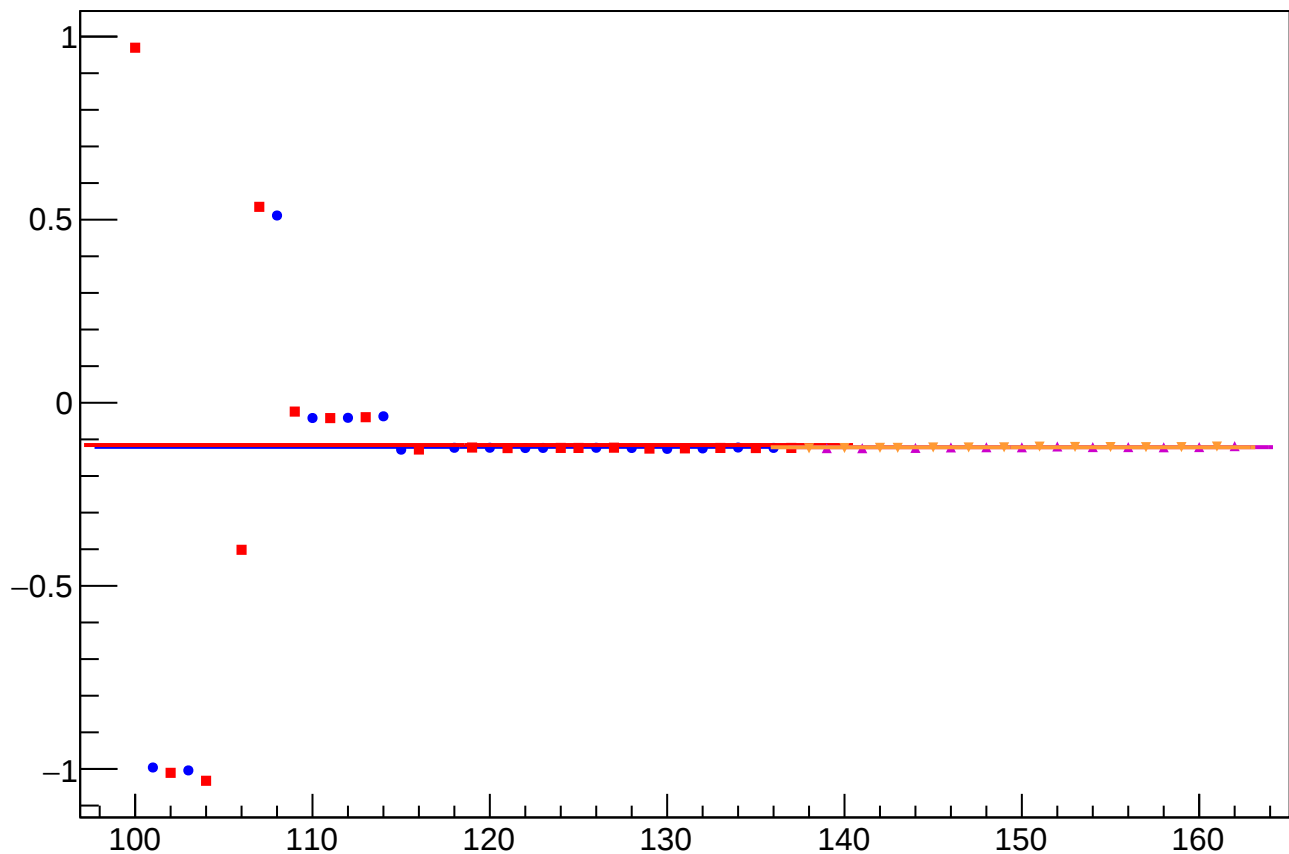
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2394549.3/28

Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3493700.7/31

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5890292.3/60

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.122+/-0.000 χ^2/NDF : 14173838.8/12

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 19730487.6/11

Left: -0.121+/-0.000 χ^2/NDF : 34283485.9/24

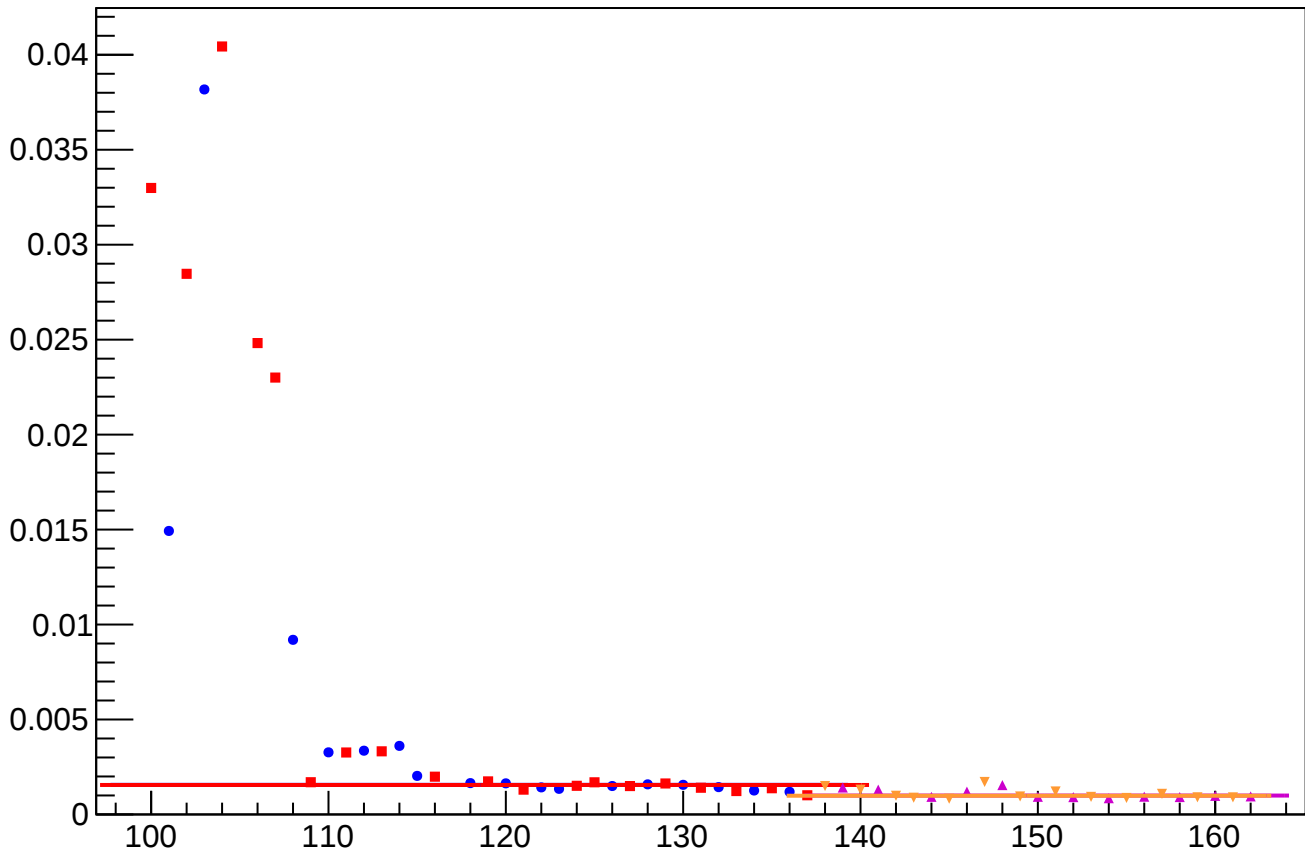
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3953253313.9/28

Out: -0.120+/-0.000 χ^2/NDF : 2529503565.0/31

All: -0.121+/-0.000 χ^2/NDF : 6484753500.5/6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2903607.4/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:697830.9/12

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:520539.0/11

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1219094.3/24

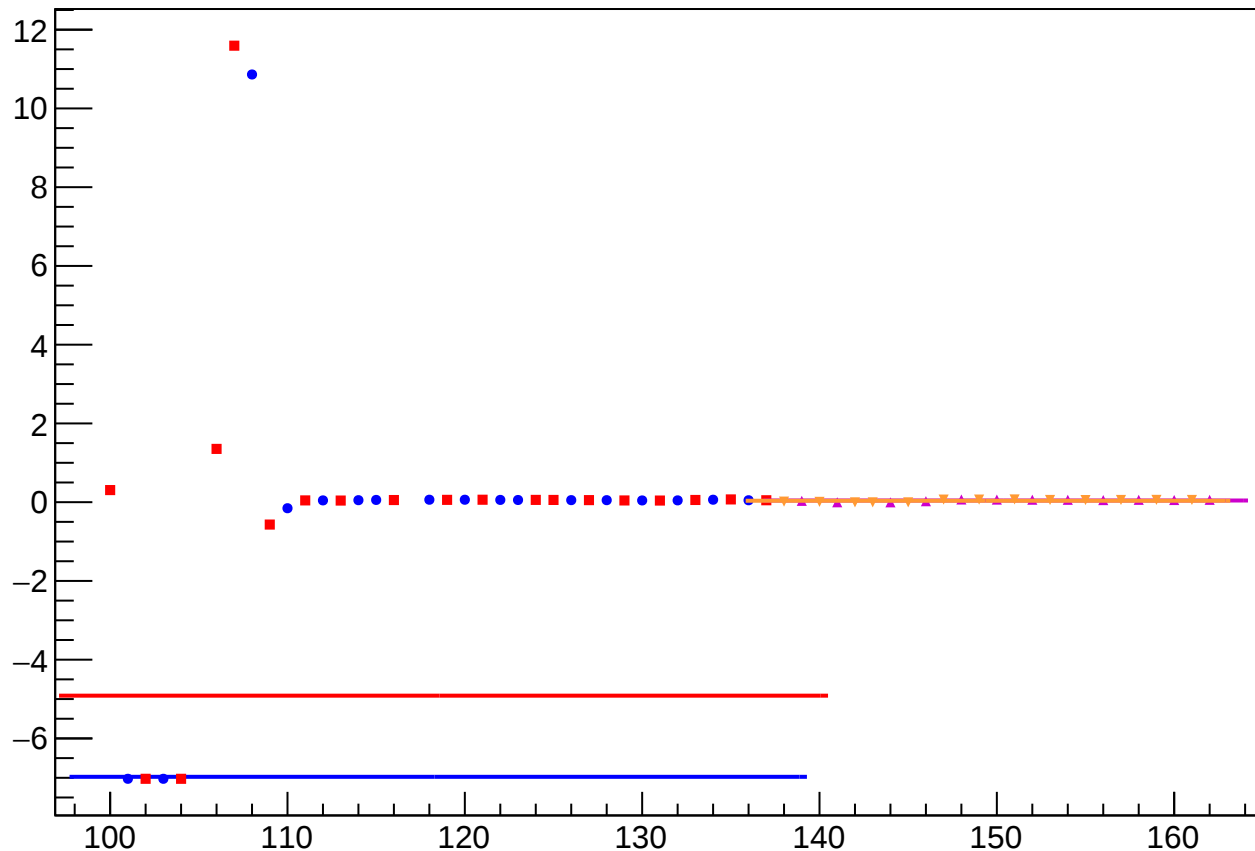
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF:4419591.7/28

Out: 0.001 $\pm$ 0.000 χ^2 /NDF:5243673.3/31

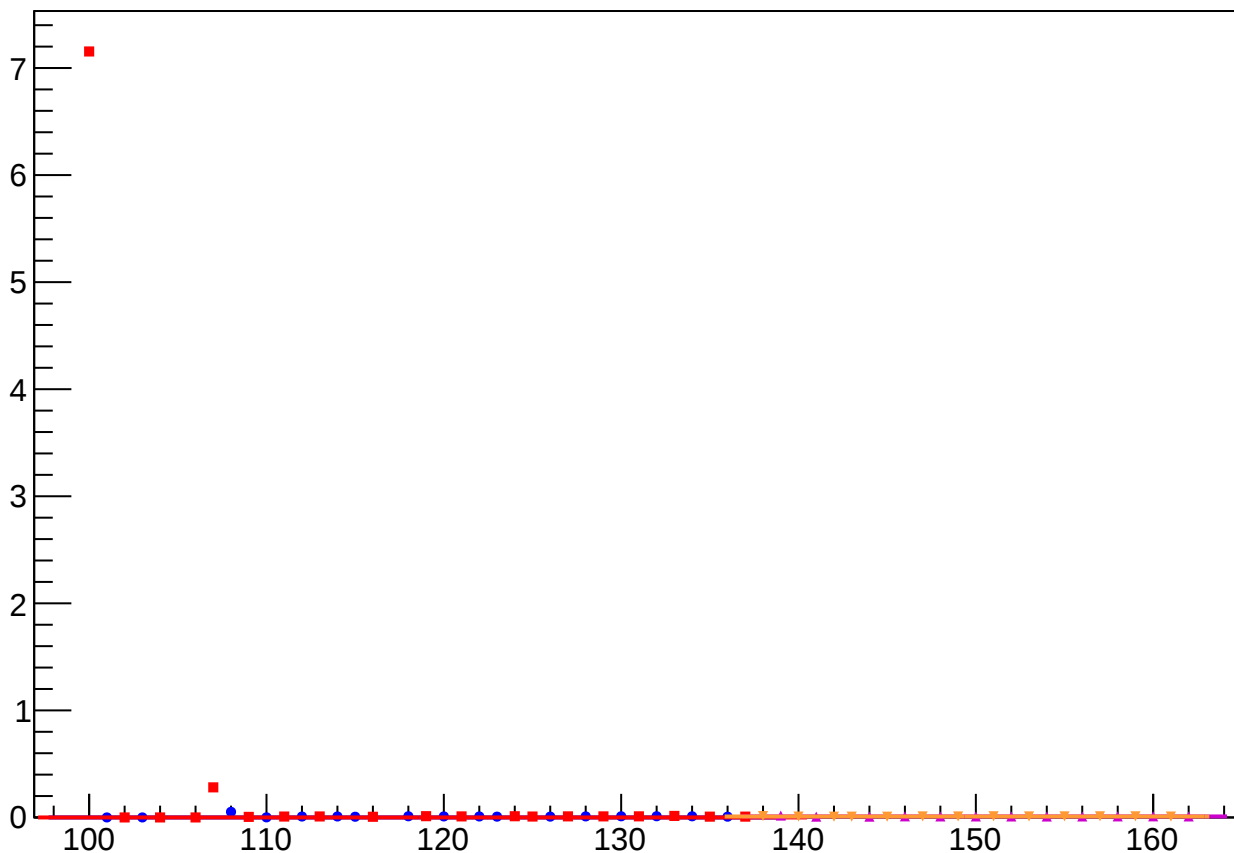
All: 0.001 $\pm$ 0.000 χ^2 /NDF: 9664270.0/60

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$
 Left Out: 0.036 ± 0.000 $\chi^2/\text{NDF}: 82854358.1/12$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$
 Left In: 0.043 ± 0.000 $\chi^2/\text{NDF}: 66616405.9/11$
 Left: 0.039 ± 0.000 $\chi^2/\text{NDF}: 151196587.0/24$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 In: -6.951 ± 0.000 $\chi^2/\text{NDF}: 13095339147012.9/28$
 Out: -4.897 ± 0.000 $\chi^2/\text{NDF}: 367616529981411.5/18$
 All: -5.880 ± 0.000 $\chi^2/\text{NDF}: 4366705720070.0/16$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 408073.7/12

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 476070.4/11

Left: 0.009+/-0.000 χ^2/NDF : 893363.7/24

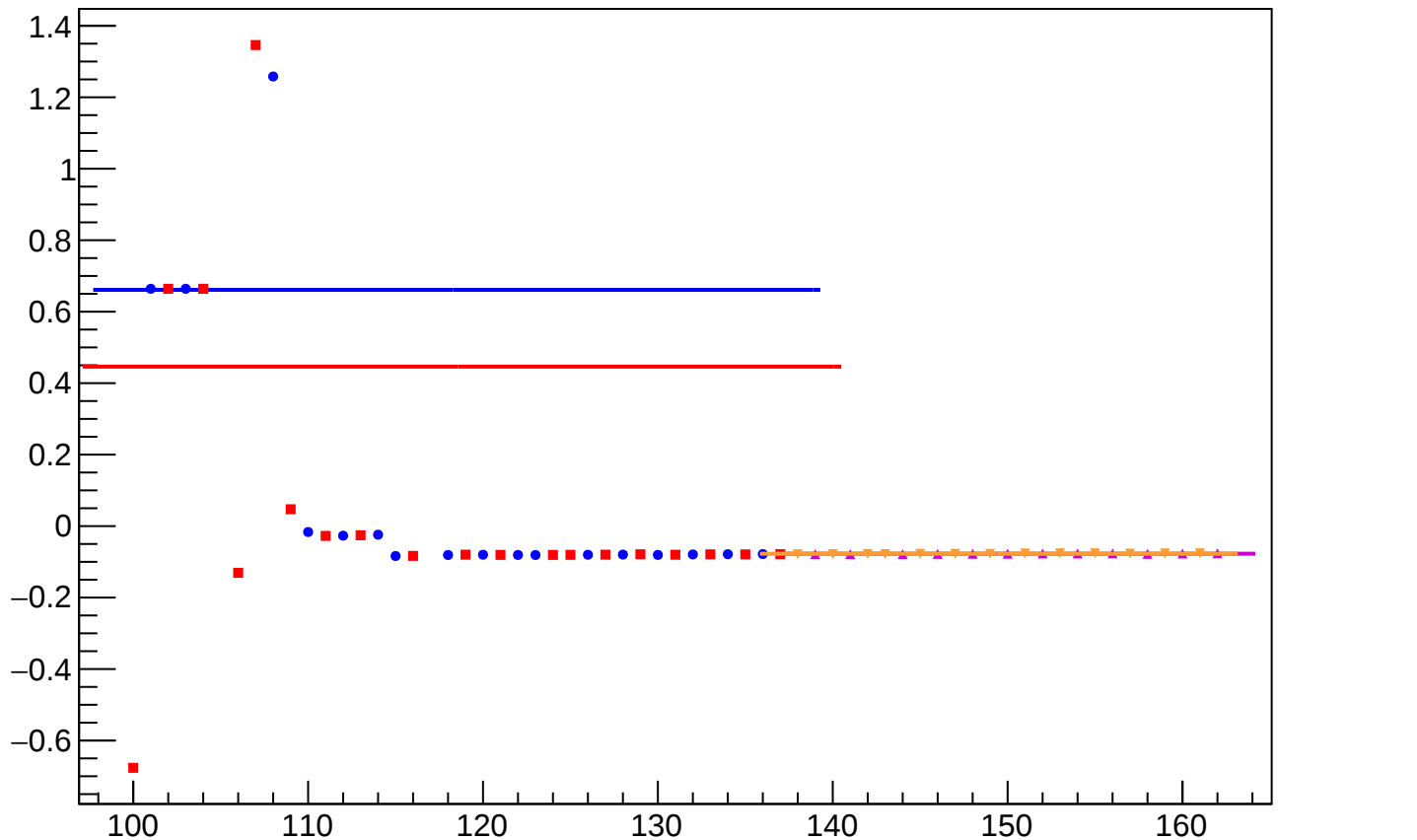
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 23686725.4/28

Out: 0.000+/-0.000 χ^2/NDF : 23771460.4/31

All: 0.000+/-0.000 χ^2/NDF : 47459053.5/60

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 42695787.5/24

Left Out: -0.077+/-0.000

χ^2/NDF : 23964148.7/12

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.653+/-0.000

χ^2/NDF : 20810283171925.7/28

Out: 0.441+/-0.000

χ^2/NDF : 413057305769180.9/3

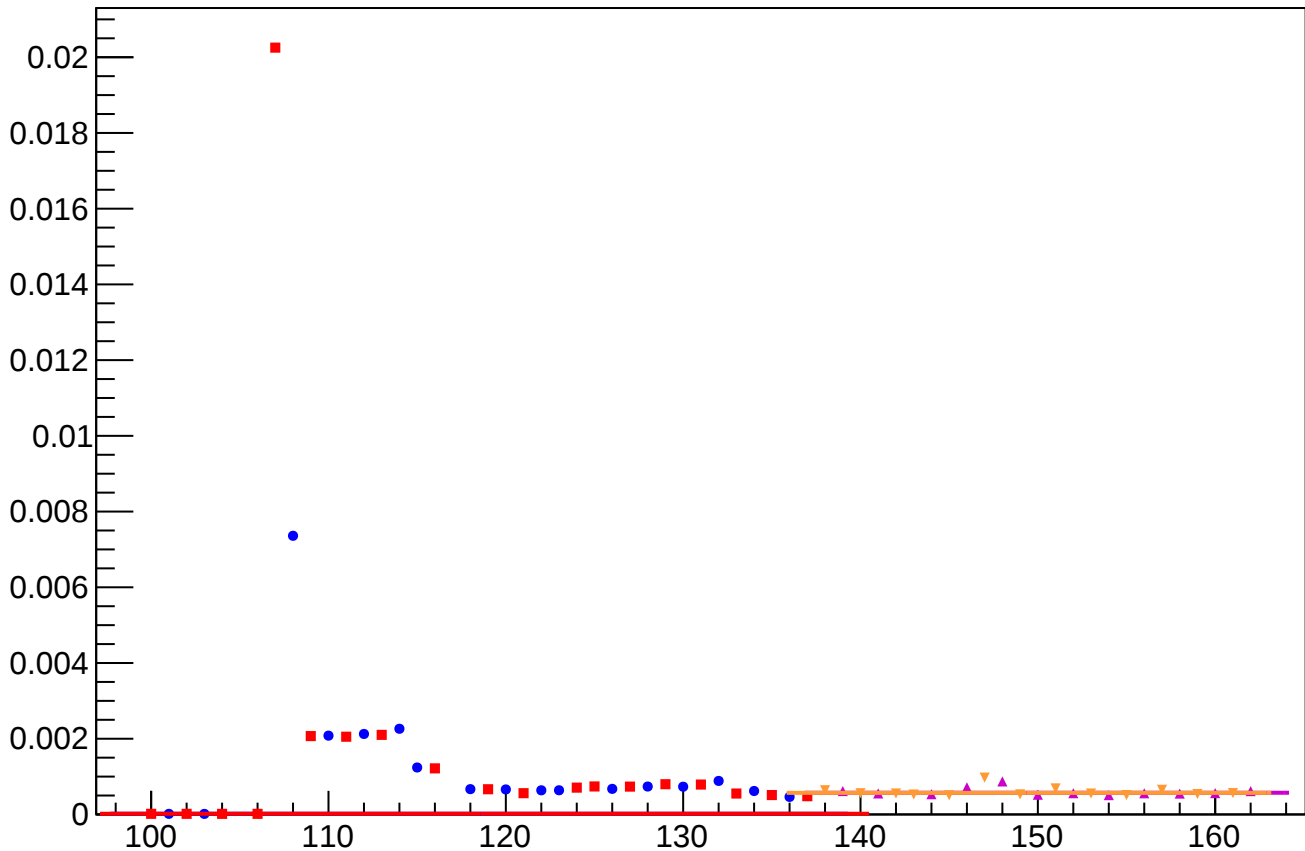
Left In: -0.077+/-0.000

χ^2/NDF : 18664202.4/11

All: 0.542+/-0.000

χ^2/NDF : 49580574228937

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 407002.5/12

Right Out: 0.000+/-0.000 χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000 χ^2/NDF : 311406.3/11

Left: 0.001+/-0.000 χ^2/NDF : 718599.3/24

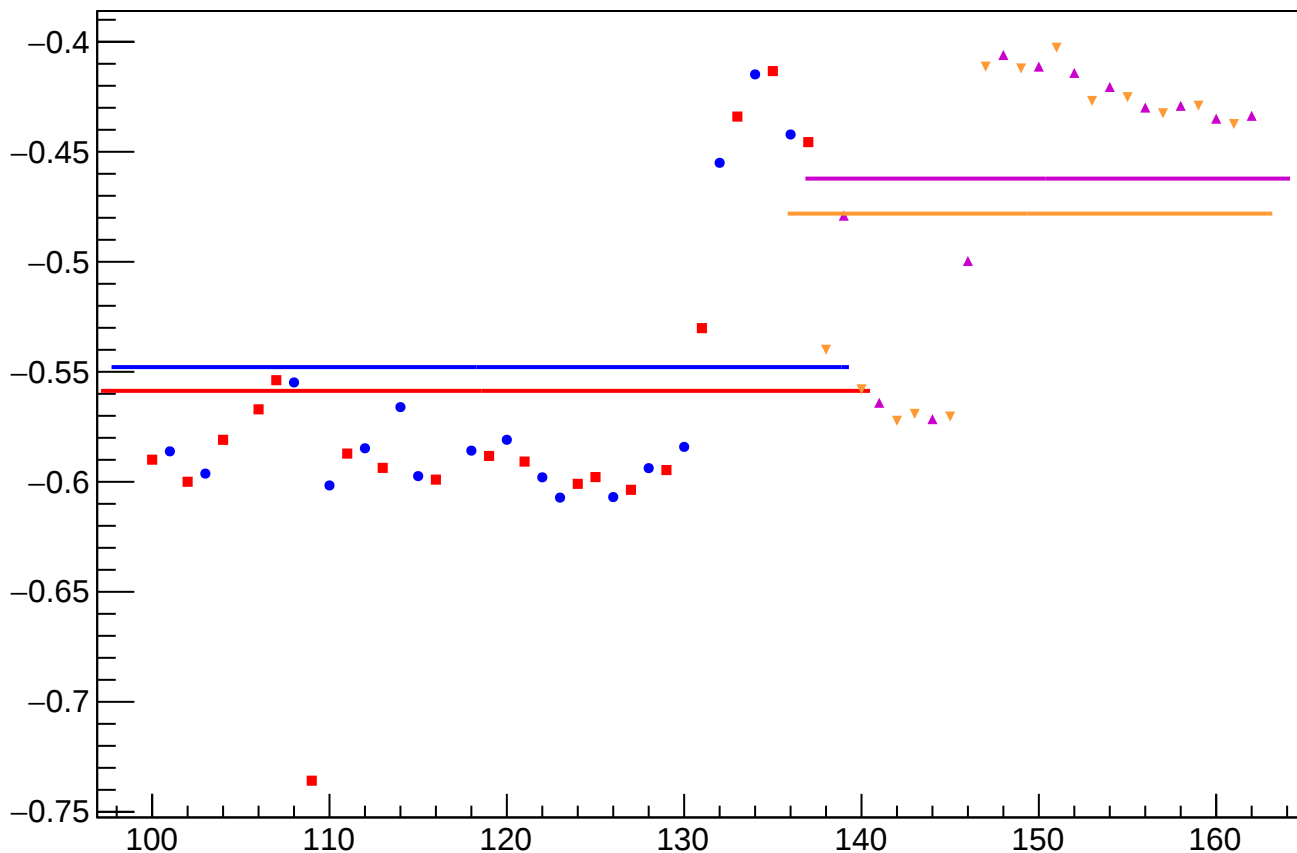
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 27394840.5/28

Out: 0.000+/-0.000 χ^2/NDF : 26885234.0/31

All: 0.000+/-0.000 χ^2/NDF : 54281067.9/60

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.478+/-0.000 χ^2/NDF : 91927769.6/12

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.462+/-0.000 χ^2/NDF : 68838669.0/11

Left: -0.470+/-0.000 χ^2/NDF : 163100315.2/24

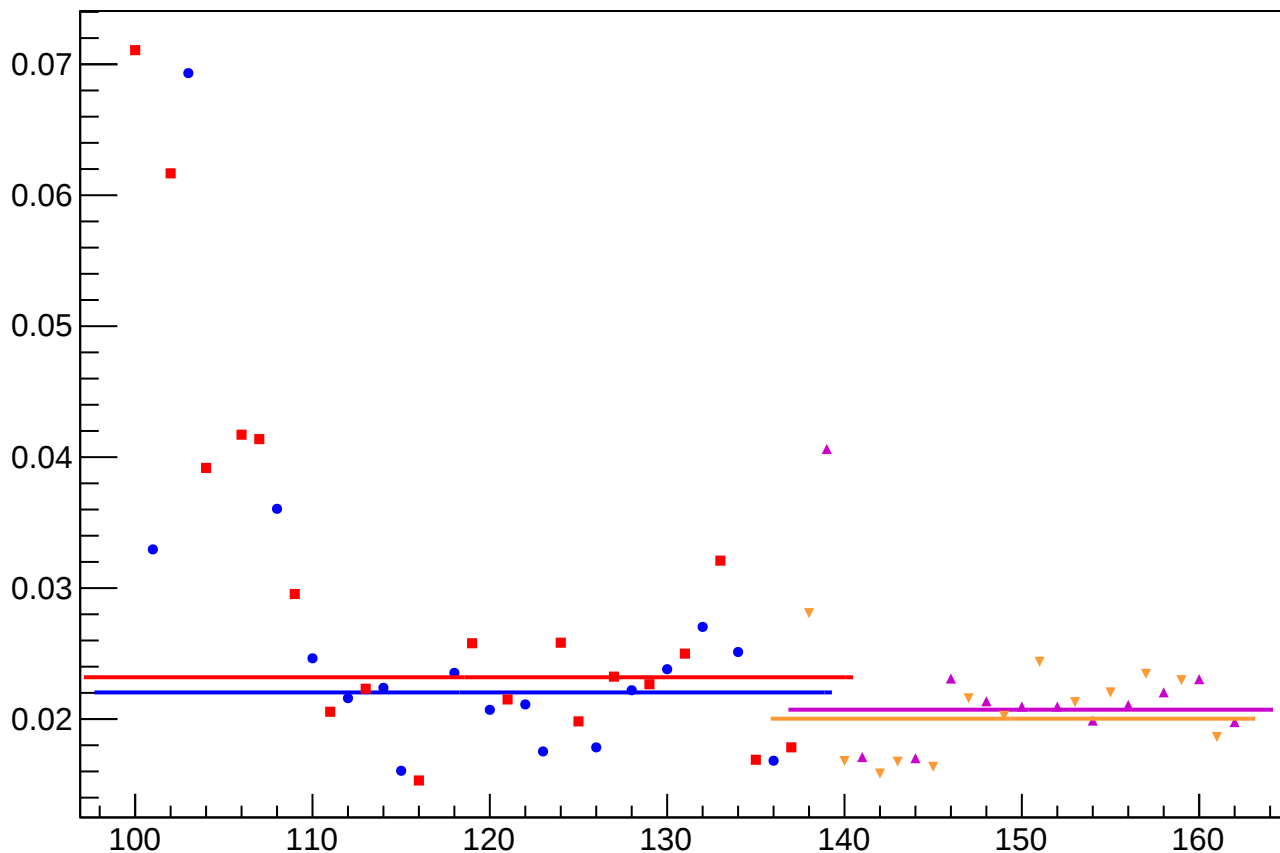
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.494+/-0.000 χ^2/NDF : 166144910.0/28

Out: -0.506+/-0.000 χ^2/NDF : 199782263.4/31

All: -0.500+/-0.000 χ^2/NDF : 368013847.3/60

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 390050.5/12

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.021+/-0.000 χ^2/NDF : 475756.5/11

Left: 0.020+/-0.000 χ^2/NDF : 874492.1/24

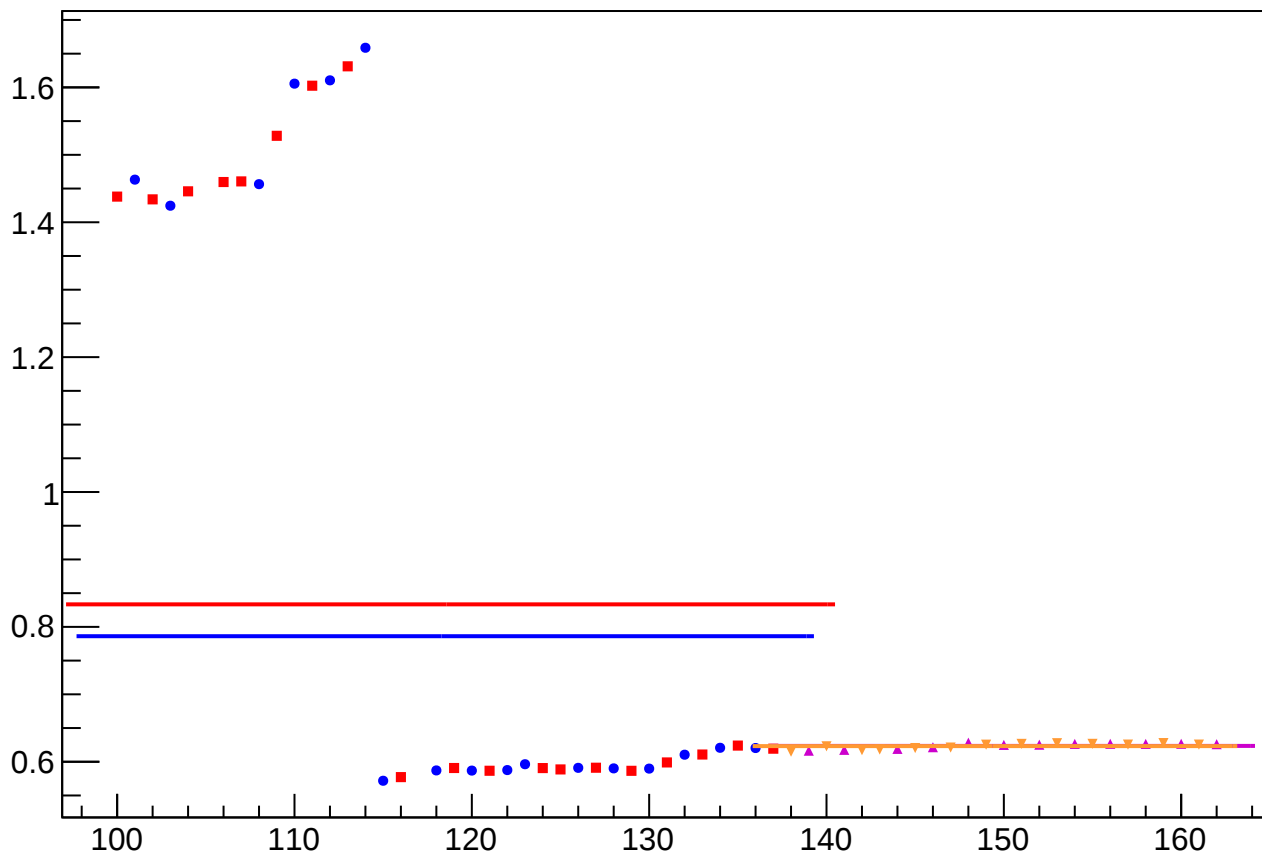
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1457758.1/28

Out: 0.021+/-0.000 χ^2/NDF : 1677158.0/31

All: 0.021+/-0.000 χ^2/NDF : 3135110.3/60

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786+/-0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.623+/-0.000 χ^2/NDF : 986855.6/12

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624+/-0.000 χ^2/NDF : 870416.8/11

Left: 0.623+/-0.000 χ^2/NDF : 1860013.5/24

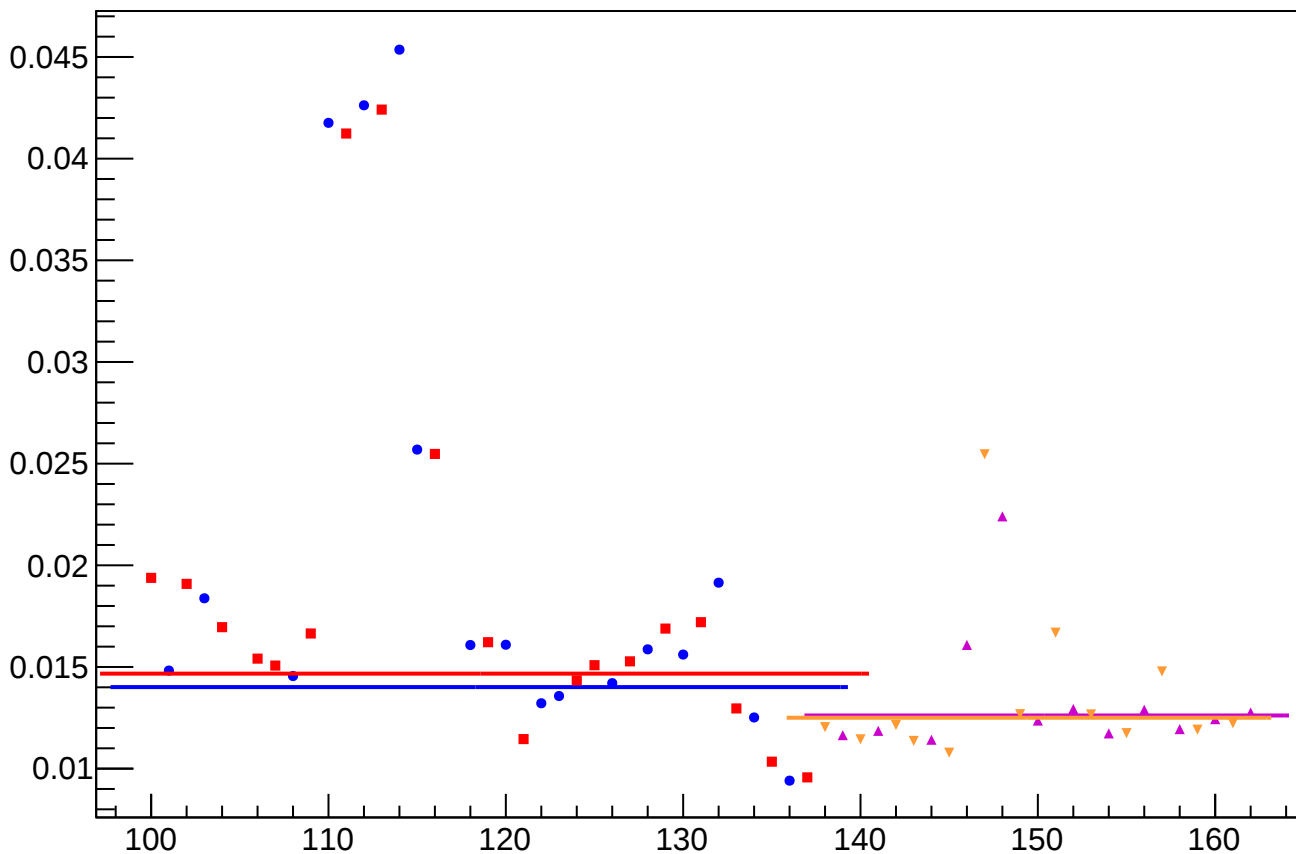
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.678+/-0.000 χ^2/NDF : 4101743326.7/28

Out: 0.691+/-0.000 χ^2/NDF : 4992700588.8/31

All: 0.684+/-0.000 χ^2/NDF : 9102429192.0/60

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1404865.3/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:588310.1/12

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1263462.0/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:409246.9/11

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 998272.1/24

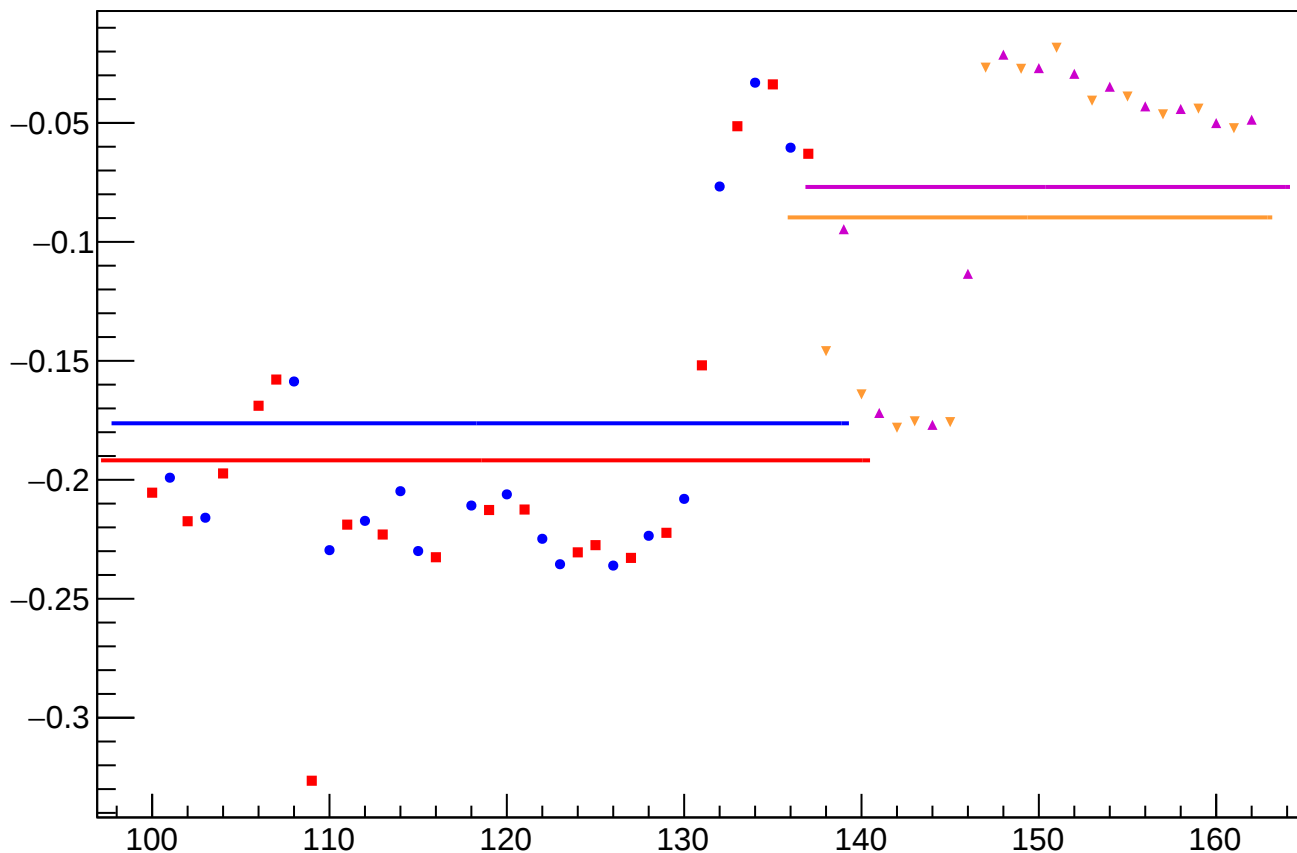
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 2680772.5/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:1889335.3/28

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2029465.0/31

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 3920181.6/60

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.090+/-0.000 χ^2/NDF : 88594803.5/12

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.077+/-0.000 χ^2/NDF : 69631760.3/11

Left: -0.083+/-0.000 χ^2/NDF : 159862748.2/24

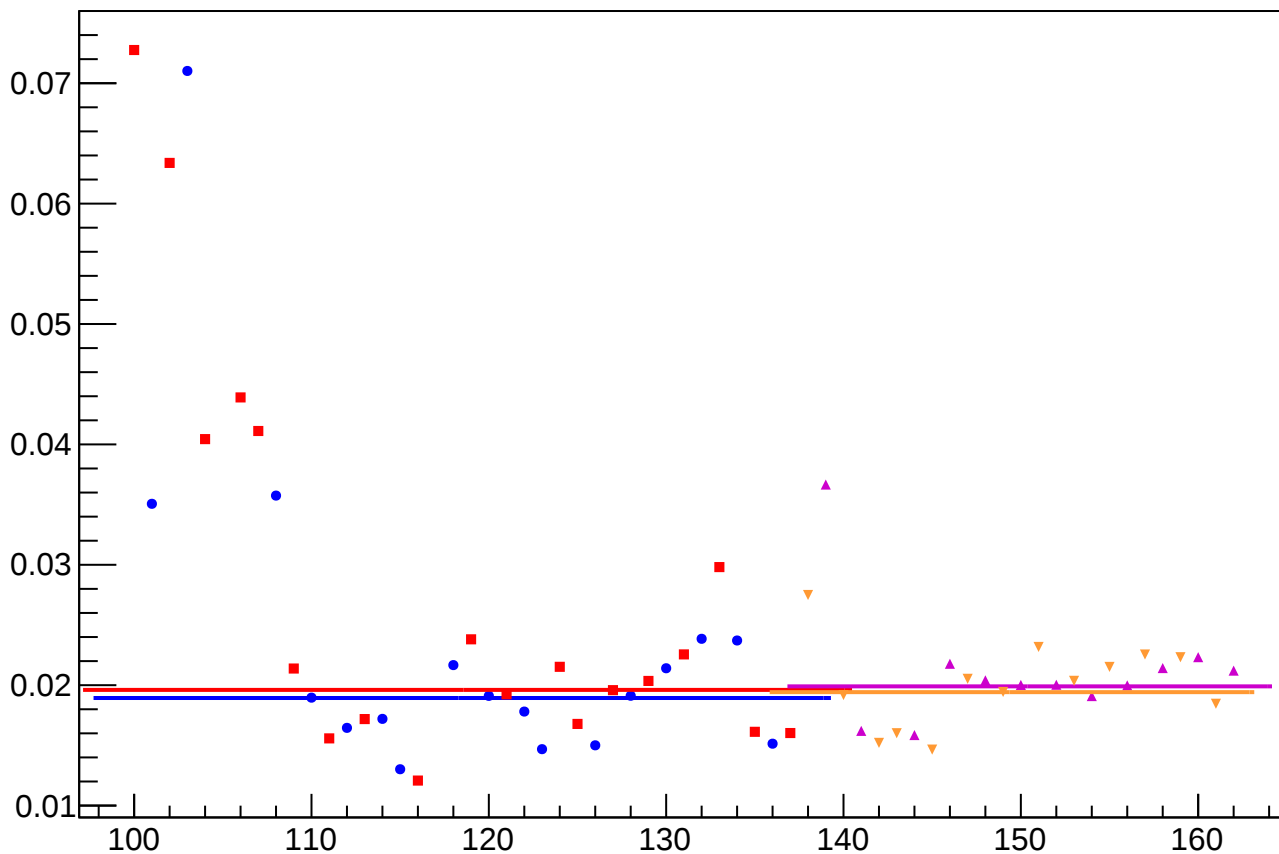
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.118+/-0.000 χ^2/NDF : 220317435.6/28

Out: -0.130+/-0.000 χ^2/NDF : 257048784.1/31

All: -0.124+/-0.000 χ^2/NDF : 479898460.9/60

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.019+/-0.000 χ^2/NDF : 415978.7/12

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.020+/-0.000 χ^2/NDF : 467304.0/11

Left: 0.020+/-0.000 χ^2/NDF : 887900.1/24

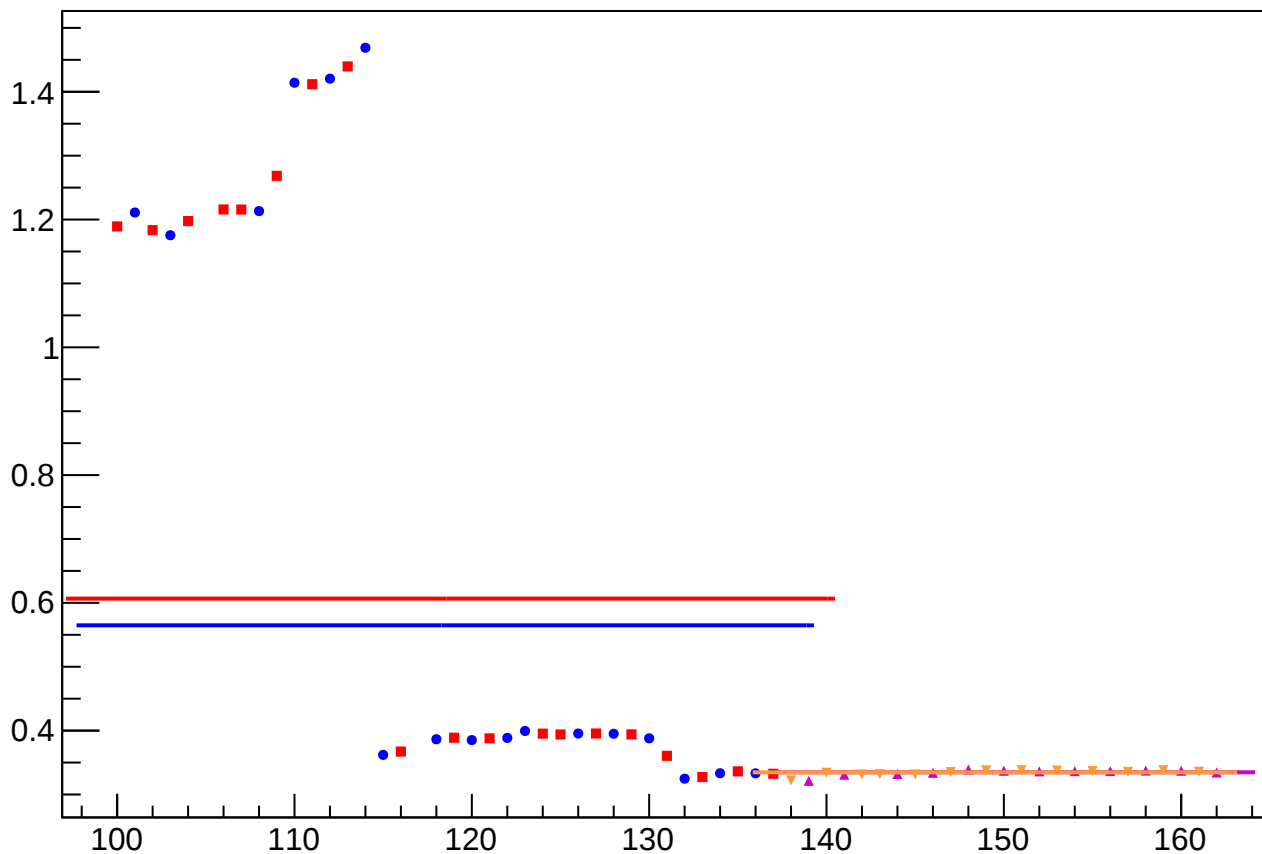
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.020+/-0.000 χ^2/NDF : 1688438.5/28

Out: 0.019+/-0.000 χ^2/NDF : 1874209.6/31

All: 0.019+/-0.000 χ^2/NDF : 3562648.6/60

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565 $\pm$ 0.000 χ^2 /NDF: 5030969499.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1065647.5/12

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5513752213.8/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1153883.5/11

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2220100.0/24

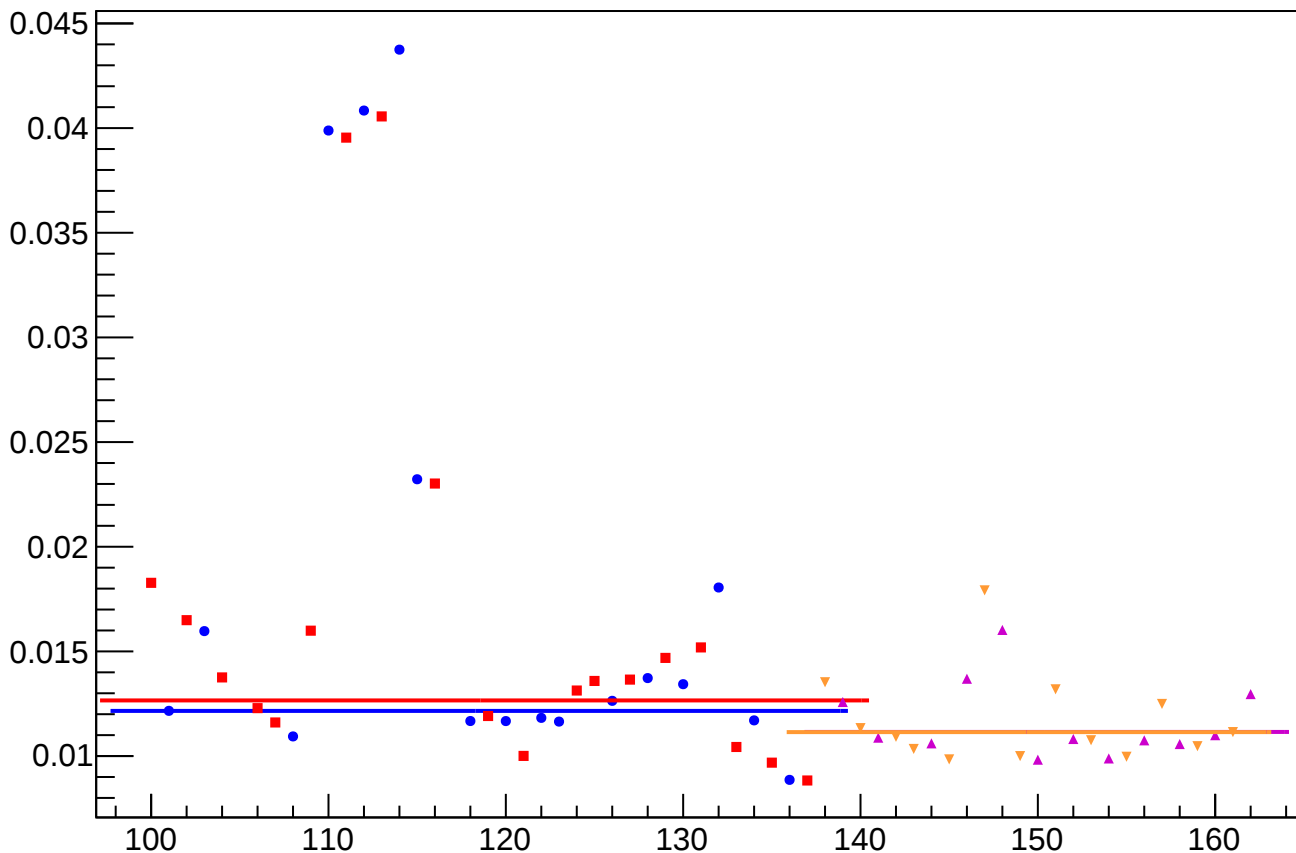
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.413 $\pm$ 0.000 χ^2 /NDF:6368795539.3/28

Out: 0.425 $\pm$ 0.000 χ^2 /NDF:7329312198.4/31

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 13706078345.5/6

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:394865.2/12

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:311609.8/11

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 706479.6/24

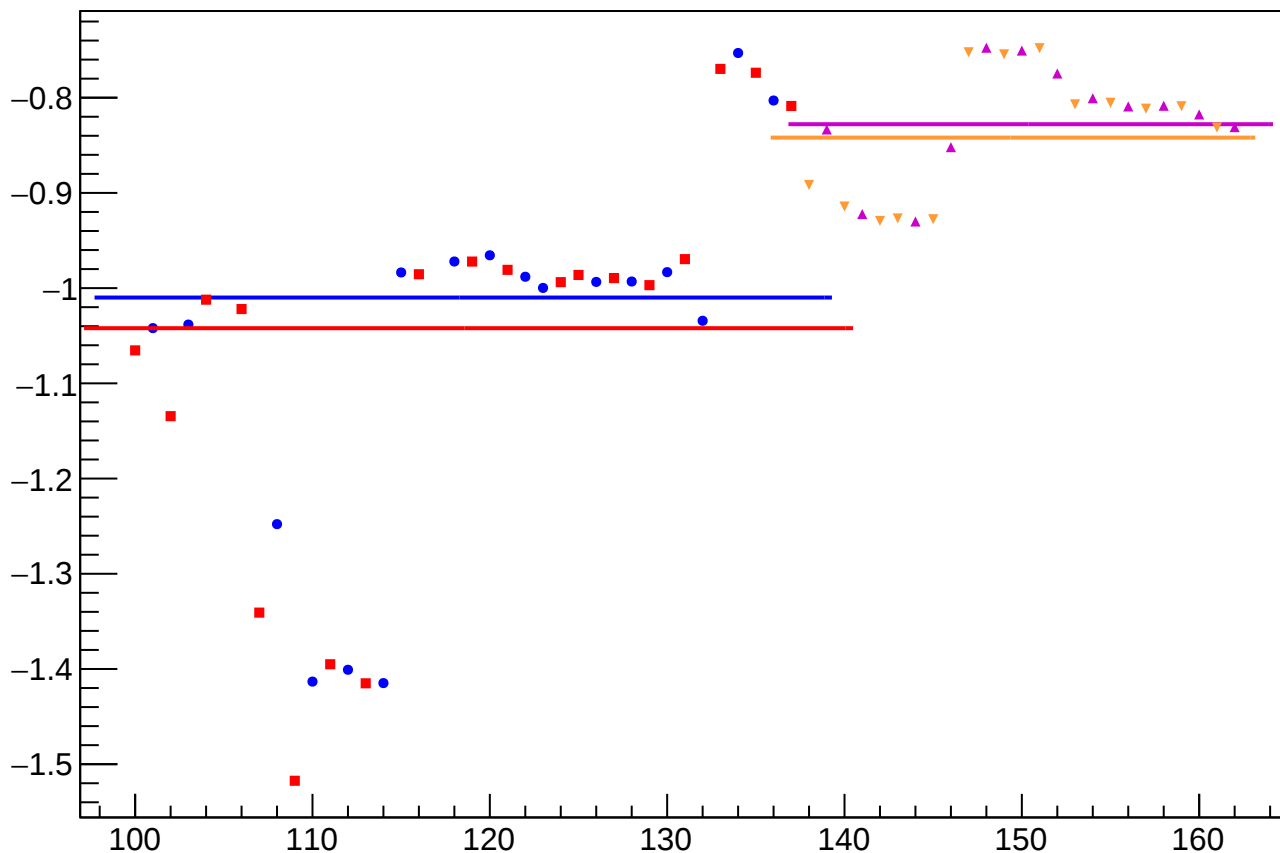
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1672521.7/28

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1777957.6/31

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3453095.7/60

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.842 ± 0.000 χ^2/NDF : 91637790.9/12

Right Out: -1.042 ± 0.000 χ^2/NDF : 530106141.8/18

Left In: -0.828 ± 0.000 χ^2/NDF : 70017054.5/11

Left: -0.835 ± 0.000 χ^2/NDF : 163569382.3/24

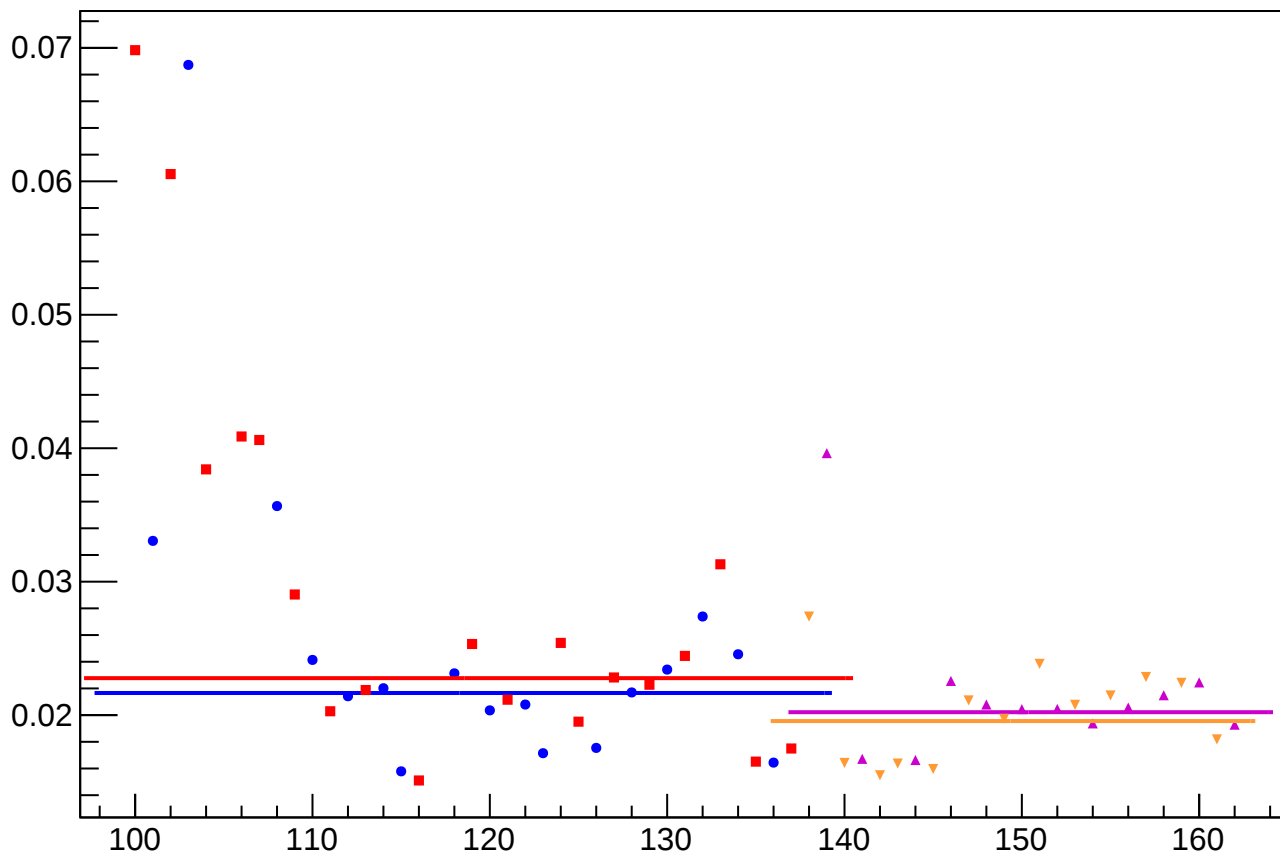
Right: -1.026 ± 0.000 χ^2/NDF : 923225272.3/35

In: -0.894 ± 0.000 χ^2/NDF : 686267768.4/28

Out: -0.910 ± 0.000 χ^2/NDF : 892554722.2/31

All: -0.902 ± 0.000 χ^2/NDF : 1582630481.8/6

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.020+/-0.000 χ^2/NDF : 388071.6/12

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.020+/-0.000 χ^2/NDF : 472660.9/11

Left: 0.020+/-0.000 χ^2/NDF : 869274.3/24

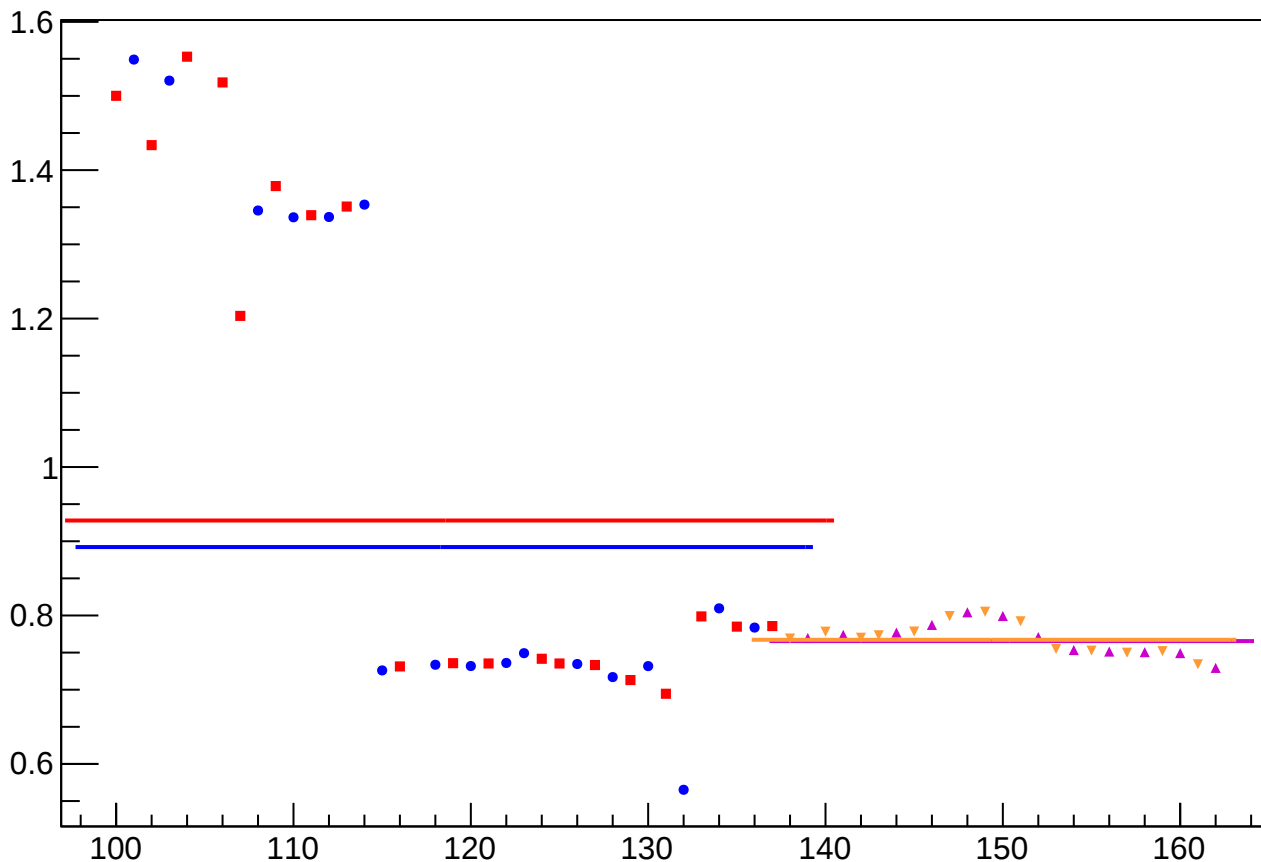
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.021+/-0.000 χ^2/NDF : 1484714.5/28

Out: 0.021+/-0.000 χ^2/NDF : 1680465.8/31

All: 0.021+/-0.000 χ^2/NDF : 3165433.2/60

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.767 $\pm$ 0.000 χ^2/NDF :21511774.8/12

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.766 $\pm$ 0.000 χ^2/NDF :21853831.9/11

Left: 0.766 $\pm$ 0.000 χ^2/NDF : 43452237.6/24

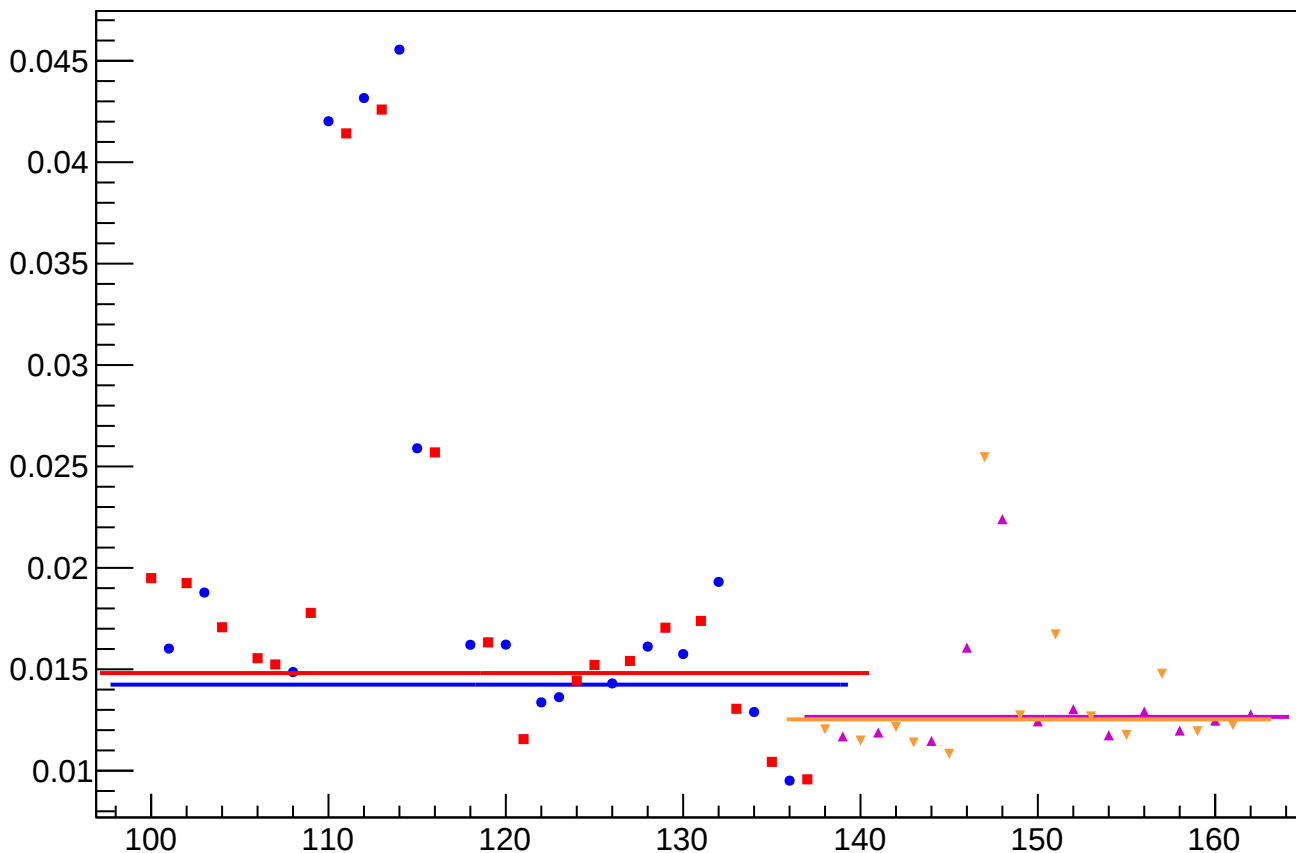
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.807 $\pm$ 0.000 χ^2/NDF :2736747921.1/28

Out: 0.819 $\pm$ 0.000 χ^2/NDF :2938828577.7/31

All: 0.813 $\pm$ 0.000 χ^2/NDF : 5681546166.6/60

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.013+/-0.000 χ^2/NDF :583753.5/12

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.013+/-0.000 χ^2/NDF :405015.6/11

Left: 0.013+/-0.000 χ^2/NDF : 989638.8/24

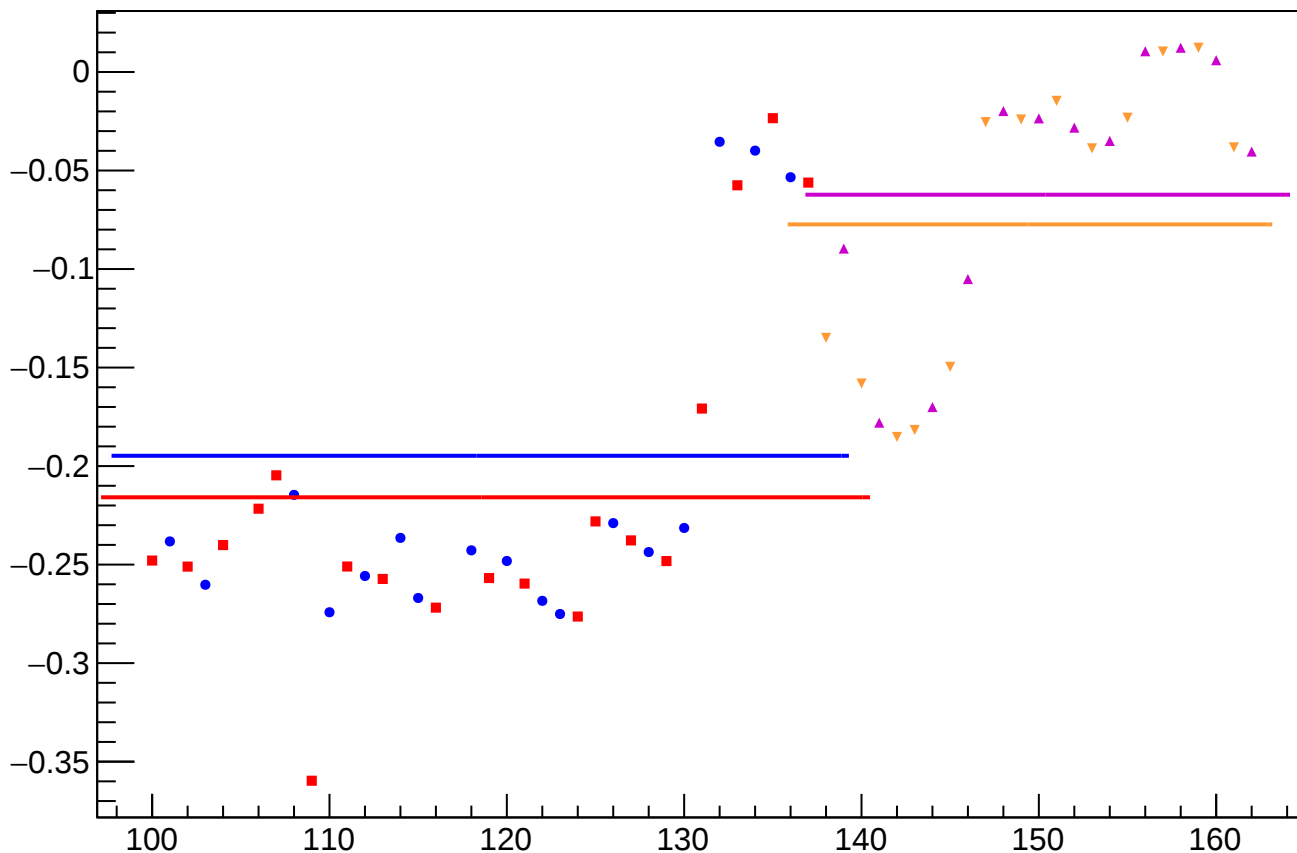
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF :1915581.7/28

Out: 0.013+/-0.000 χ^2/NDF :2051602.8/31

All: 0.013+/-0.000 χ^2/NDF : 3967862.5/60

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195 ± 0.000 $\chi^2/\text{NDF}: 108656195.5/16$

Left Out: -0.077 ± 0.000 $\chi^2/\text{NDF}: 106900254.2/12$

Right Out: -0.216 ± 0.000 $\chi^2/\text{NDF}: 111983904.6/18$

Left In: -0.062 ± 0.000 $\chi^2/\text{NDF}: 94140276.6/11$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 203293719.4/24$

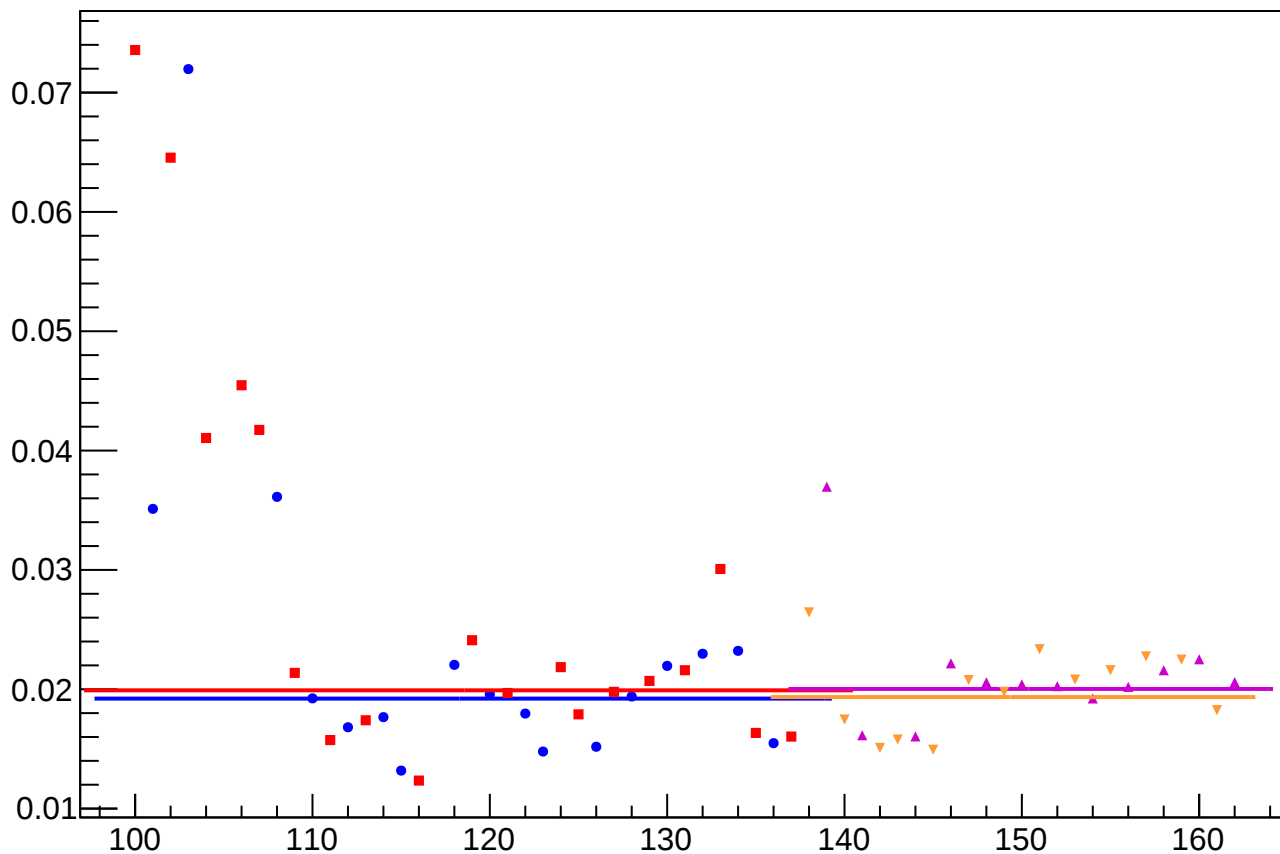
Right: -0.205 ± 0.000 $\chi^2/\text{NDF}: 223598203.8/35$

In: -0.117 ± 0.000 $\chi^2/\text{NDF}: 342940618.2/28$

Out: -0.132 ± 0.000 $\chi^2/\text{NDF}: 371663637.3/31$

All: -0.124 ± 0.000 $\chi^2/\text{NDF}: 718152175.9/60$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 417862.5/12

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.020+/-0.000 χ^2/NDF : 470627.1/11

Left: 0.020+/-0.000 χ^2/NDF : 897781.1/24

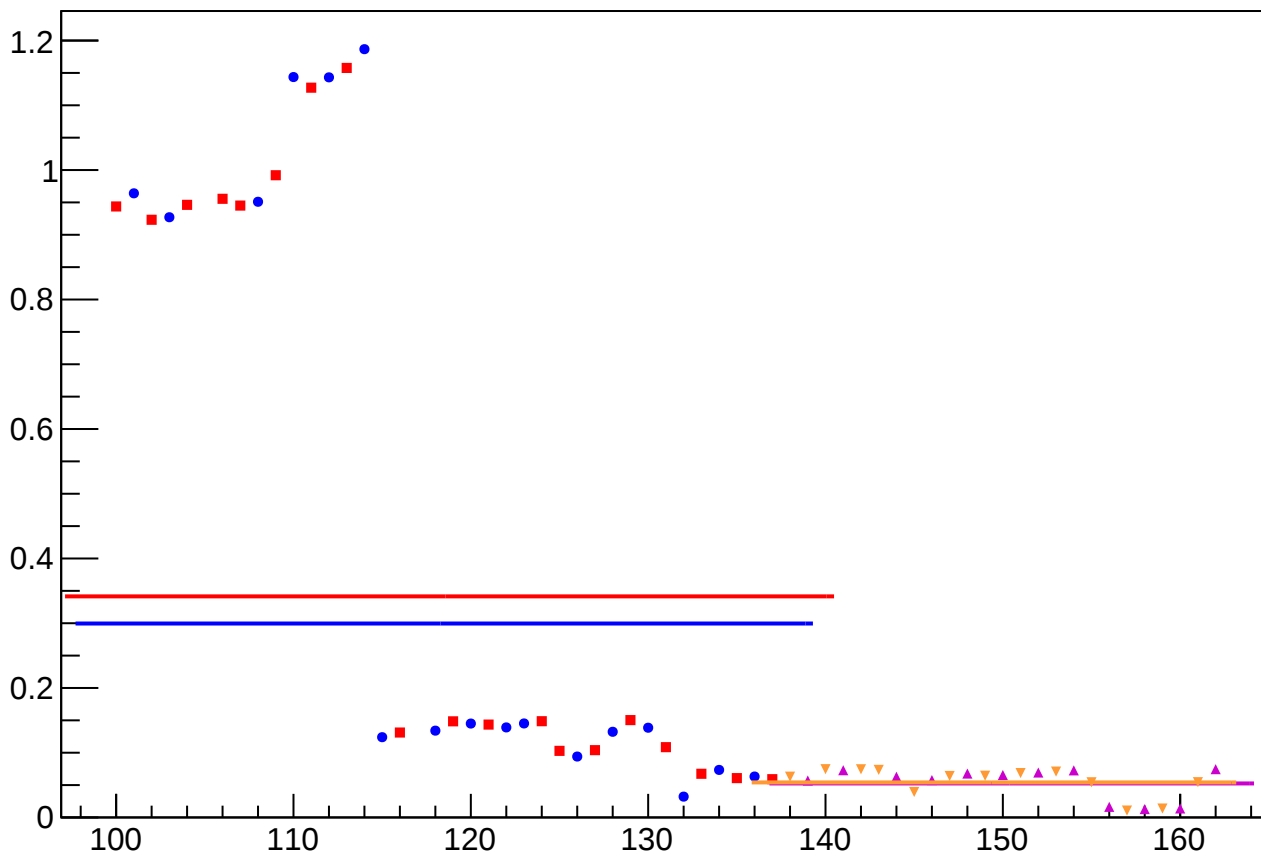
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.020+/-0.000 χ^2/NDF : 1658191.8/28

Out: 0.020+/-0.000 χ^2/NDF : 1869932.3/31

All: 0.020+/-0.000 χ^2/NDF : 3528671.8/60

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.054+/-0.000 χ^2/NDF : 34623961.3/12

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.053+/-0.000 χ^2/NDF : 45455319.5/11

Left: 0.053+/-0.000 χ^2/NDF : 80177152.0/24

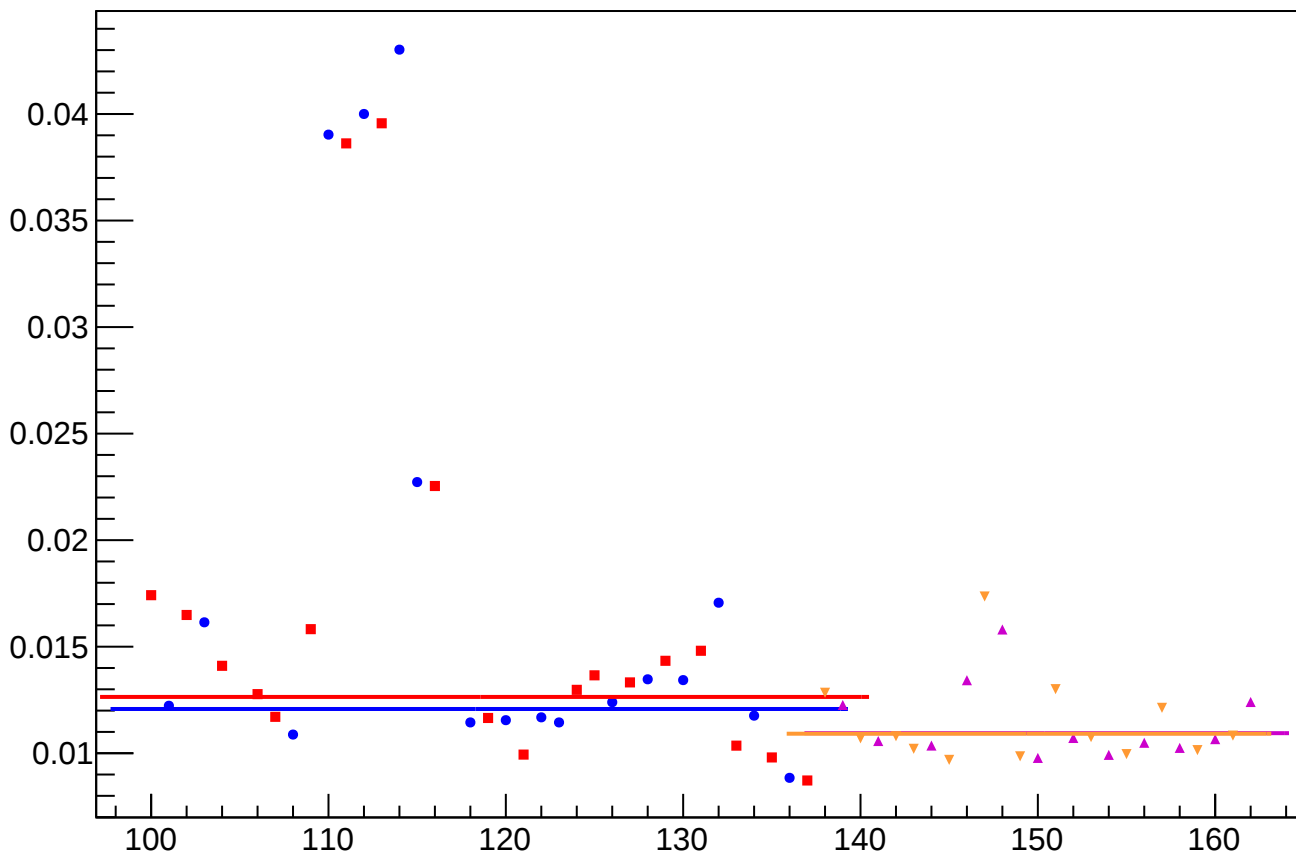
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.135+/-0.000 χ^2/NDF : 6787887869.7/28

Out: 0.147+/-0.000 χ^2/NDF : 7544374166.7/31

All: 0.141+/-0.000 χ^2/NDF : 14340265523.0/6

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 ± 0.000 χ^2/NDF : 1282097.7/16

Left Out: 0.011 ± 0.000 χ^2/NDF : 363086.8/12

Right Out: 0.013 ± 0.000 χ^2/NDF : 1237706.0/18

Left In: 0.011 ± 0.000 χ^2/NDF : 293397.7/11

Left: 0.011 ± 0.000 χ^2/NDF : 656533.6/24

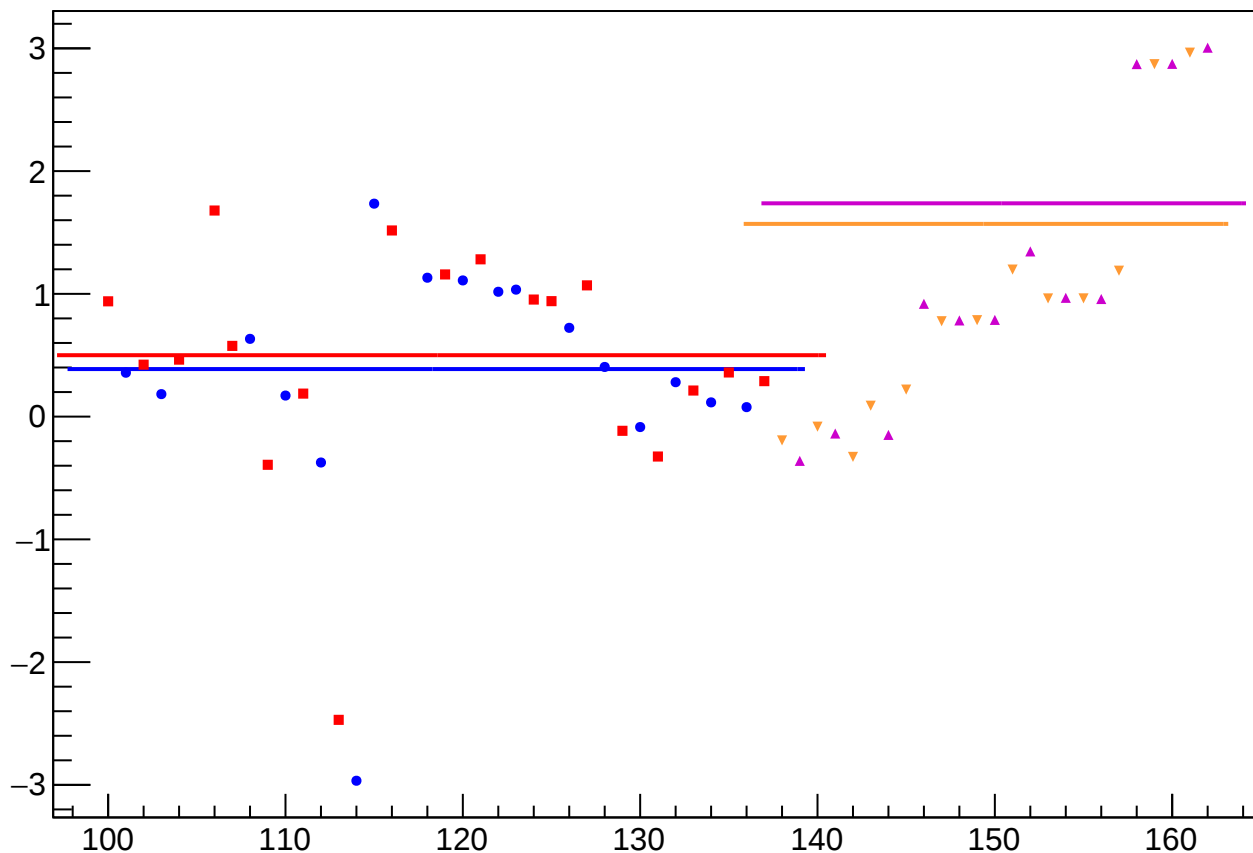
Right: 0.012 ± 0.000 χ^2/NDF : 2531931.6/35

In: 0.011 ± 0.000 χ^2/NDF : 1642062.8/28

Out: 0.011 ± 0.000 χ^2/NDF : 1749374.2/31

All: 0.011 ± 0.000 χ^2/NDF : 3394130.4/60

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.570 $\pm$ 0.000 χ^2/NDF :19026826836.3/12

Right Out: 0.500 $\pm$ 0.000 χ^2/NDF : 983360928.1/18

Left In: 1.738 $\pm$ 0.000 χ^2/NDF :23683215022.2/11

Left: 1.660 $\pm$ 0.000 χ^2/NDF : 43030195102.2/24

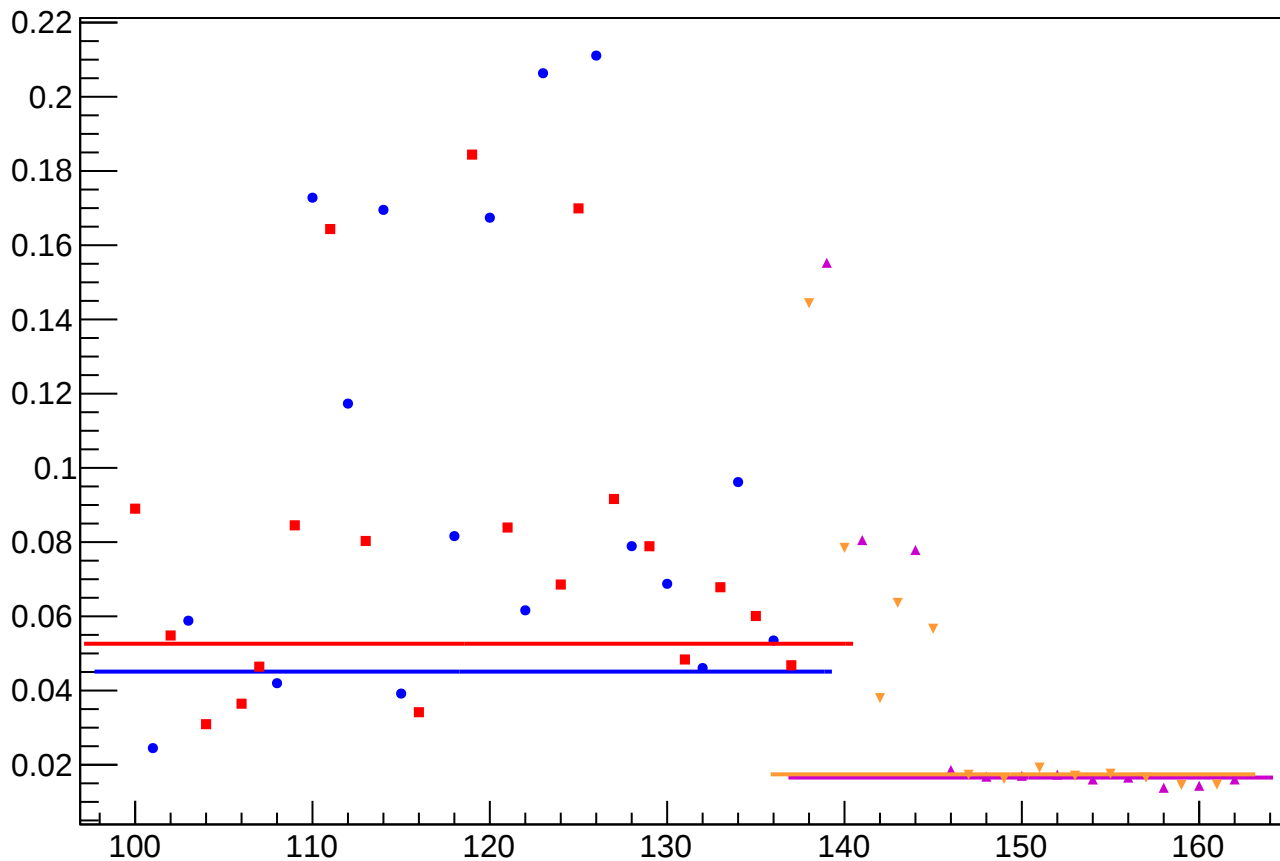
Right: 0.439 $\pm$ 0.000 χ^2/NDF : 1241544973.3/35

In: 1.648 $\pm$ 0.000 χ^2/NDF :26908317214.9/28

Out: 1.500 $\pm$ 0.000 χ^2/NDF :21605939005.3/31

All: 1.579 $\pm$ 0.000 χ^2/NDF : 48783465057.1/6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2717108.9/12

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.017+/-0.000 χ^2/NDF : 2325229.6/11

Left: 0.017+/-0.000 χ^2/NDF : 5059347.7/24

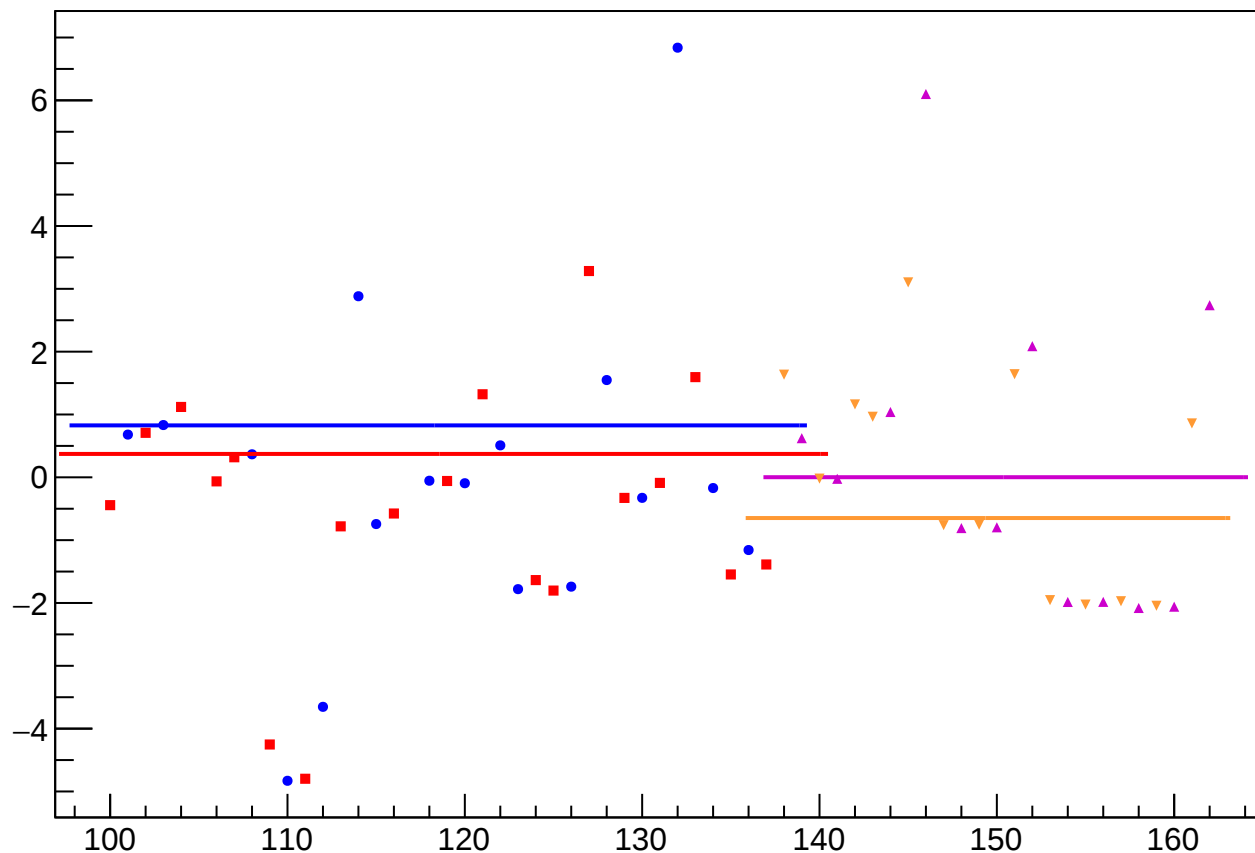
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7833030.5/28

Out: 0.020+/-0.000 χ^2/NDF : 8362161.0/31

All: 0.019+/-0.000 χ^2/NDF : 16235682.0/60

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827 $\pm$ 0.000 χ^2/NDF : 10936458870.4/16

Left Out: -0.648 $\pm$ 0.000 χ^2/NDF : 94423341893.5/12

Right Out: 0.372 $\pm$ 0.000 χ^2/NDF : 4972900338.2/18

Left In: 0.002 $\pm$ 0.000 χ^2/NDF : 267363769535.3/11

Left: -0.298 $\pm$ 0.000 χ^2/NDF : 369117015892.8/24

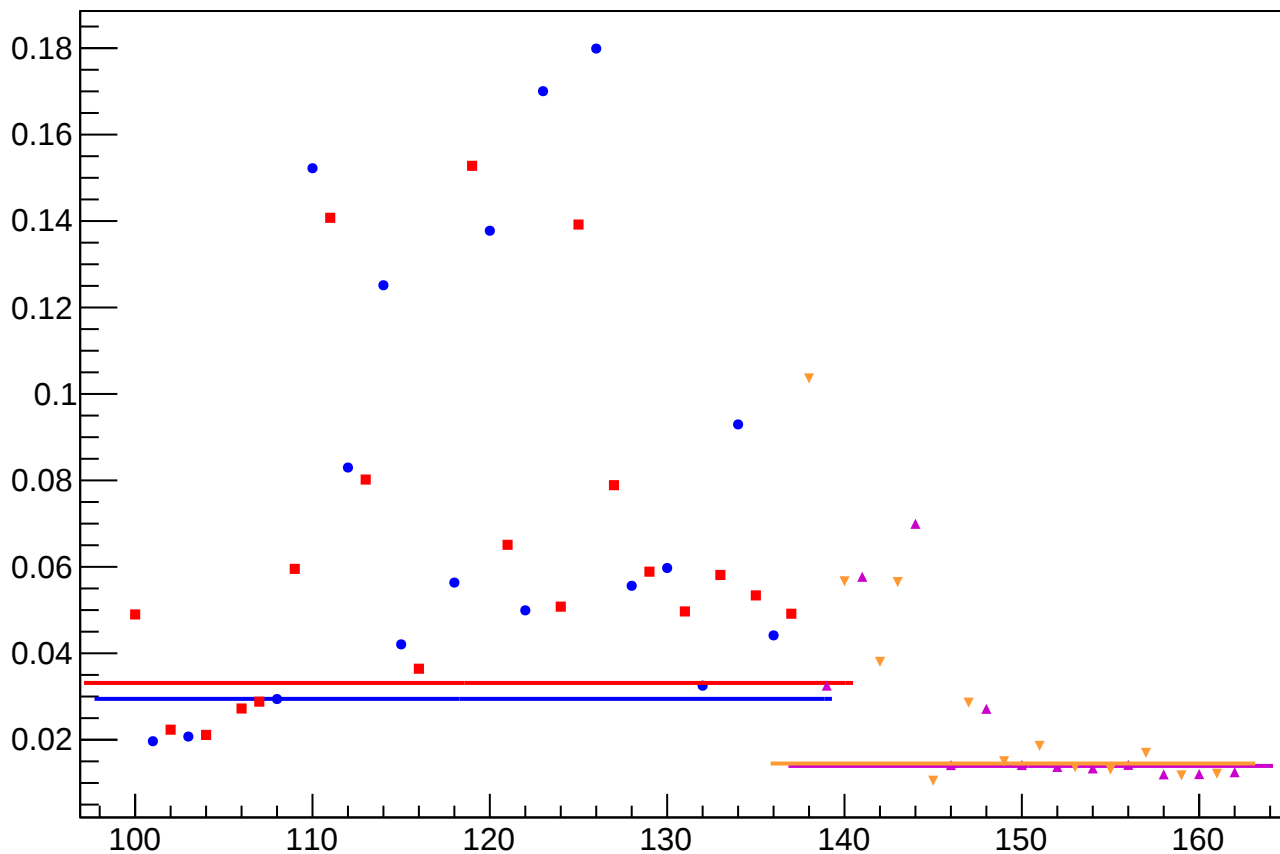
Right: 0.613 $\pm$ 0.000 χ^2/NDF : 16291516809.6/35

In: 0.080 $\pm$ 0.000 χ^2/NDF : 280723745086.4/28

Out: -0.548 $\pm$ 0.000 χ^2/NDF : 102681543515.7/31

All: -0.210 $\pm$ 0.000 χ^2/NDF : 390978668510.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.015+/-0.000 χ^2/NDF : 2752076.3/12

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.014+/-0.000 χ^2/NDF : 1834693.9/11

Left: 0.014+/-0.000 χ^2/NDF : 4597393.8/24

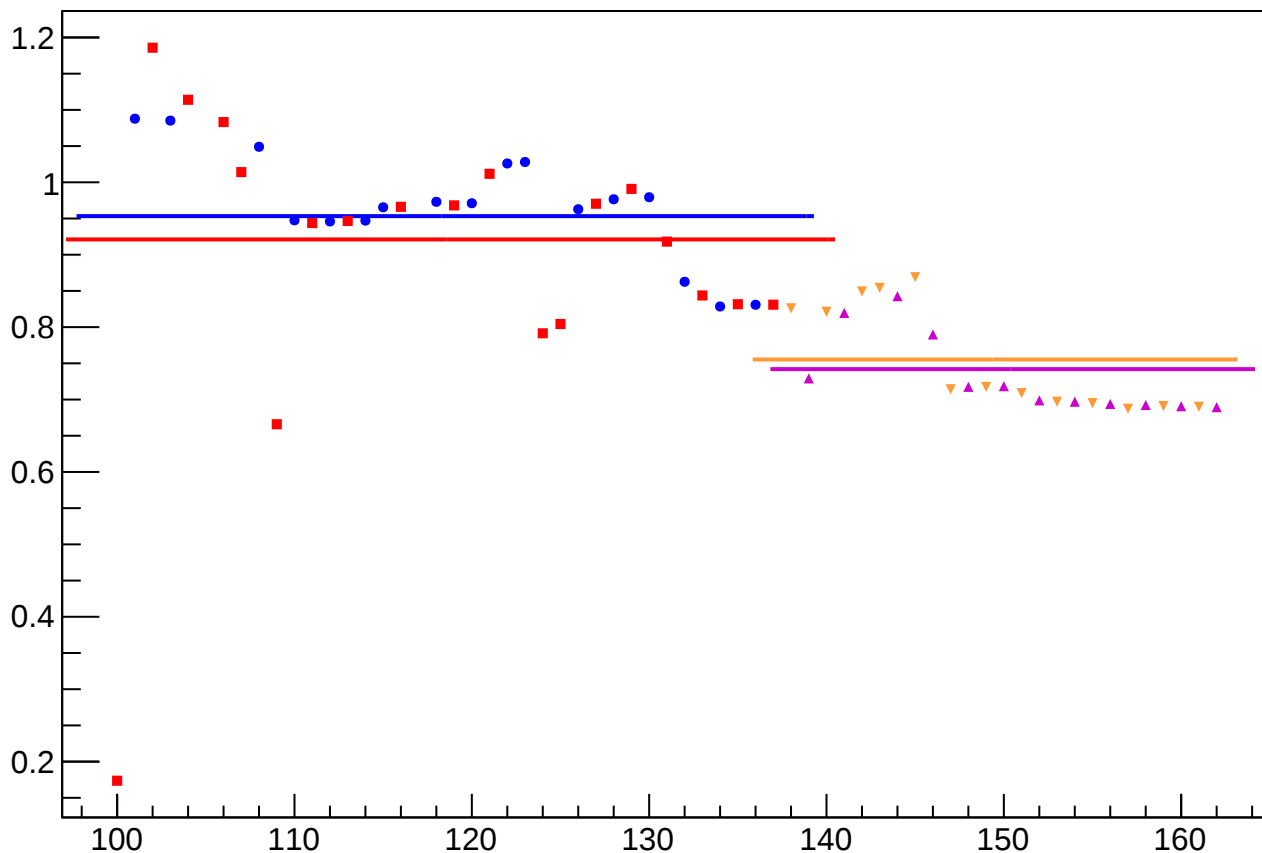
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF : 6603043.8/28

Out: 0.016+/-0.000 χ^2/NDF : 8043217.4/31

All: 0.016+/-0.000 χ^2/NDF : 14678270.9/60

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.755+/-0.000 χ^2/NDF :238802930.1/12

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.742+/-0.000 χ^2/NDF :149385591.8/11

Left: 0.749+/-0.000 χ^2/NDF : 392368064.7/24

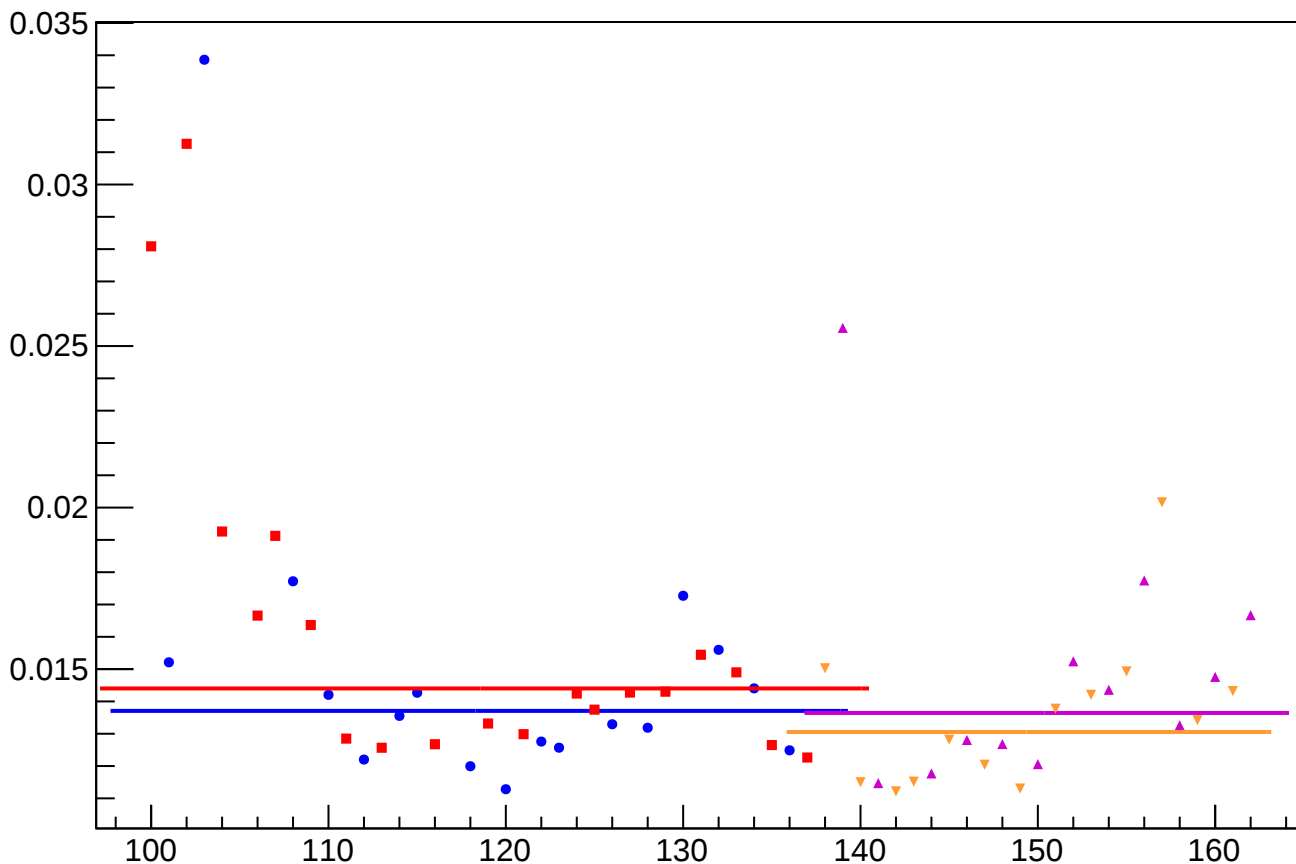
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.827+/-0.000 χ^2/NDF :1147919543.0/28

Out: 0.817+/-0.000 χ^2/NDF :1117214964.9/31

All: 0.822+/-0.000 χ^2/NDF : 2268937265.4/60

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF :325297.0/12

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF :566162.8/11

Left: 0.013+/-0.000 χ^2/NDF : 907831.1/24

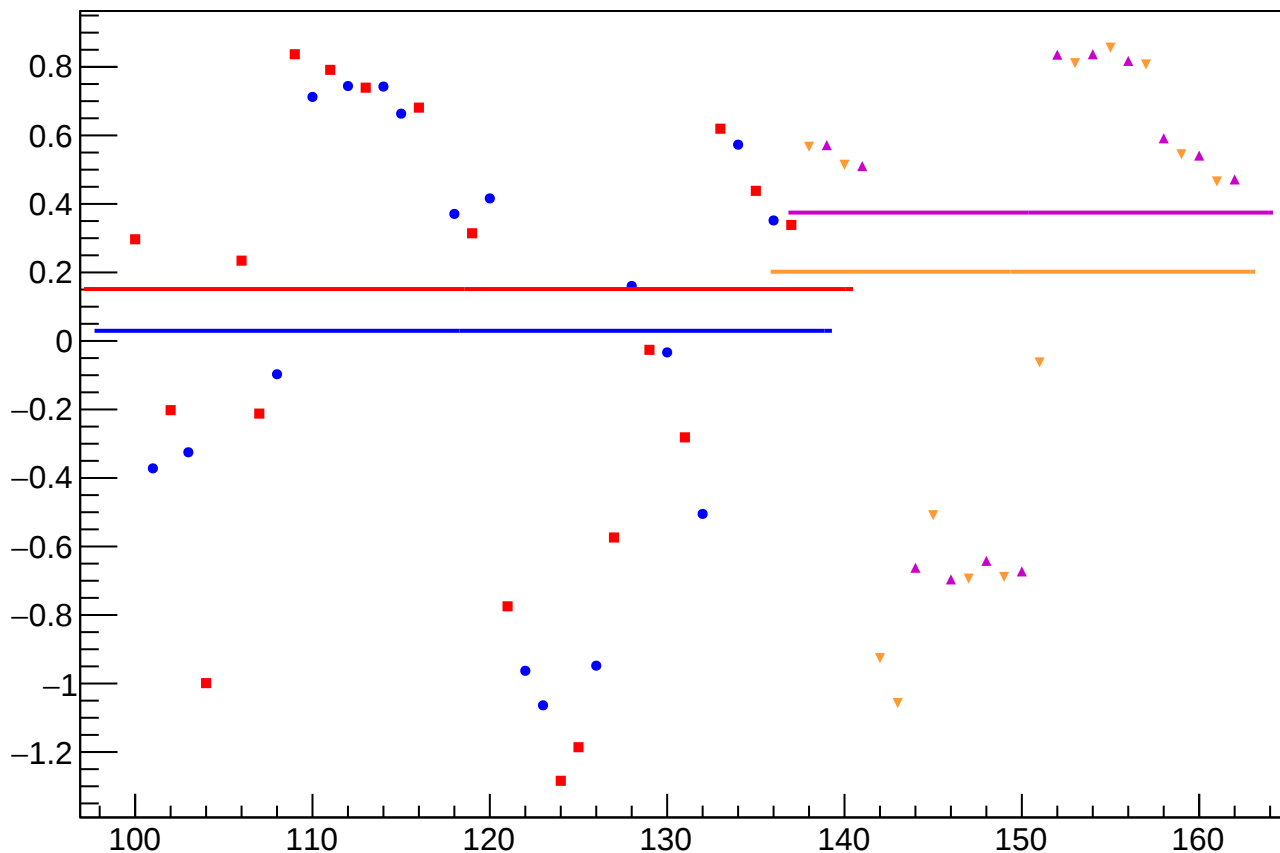
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF :1112631.2/28

Out: 0.014+/-0.000 χ^2/NDF :893637.7/31

All: 0.014+/-0.000 χ^2/NDF : 2007198.0/60

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: 0.202+/-0.000 χ^2/NDF : 23473965730.0/12

Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.375+/-0.000 χ^2/NDF : 16055163709.8/11

Left: 0.288+/-0.000 χ^2/NDF : 40444636149.2/24

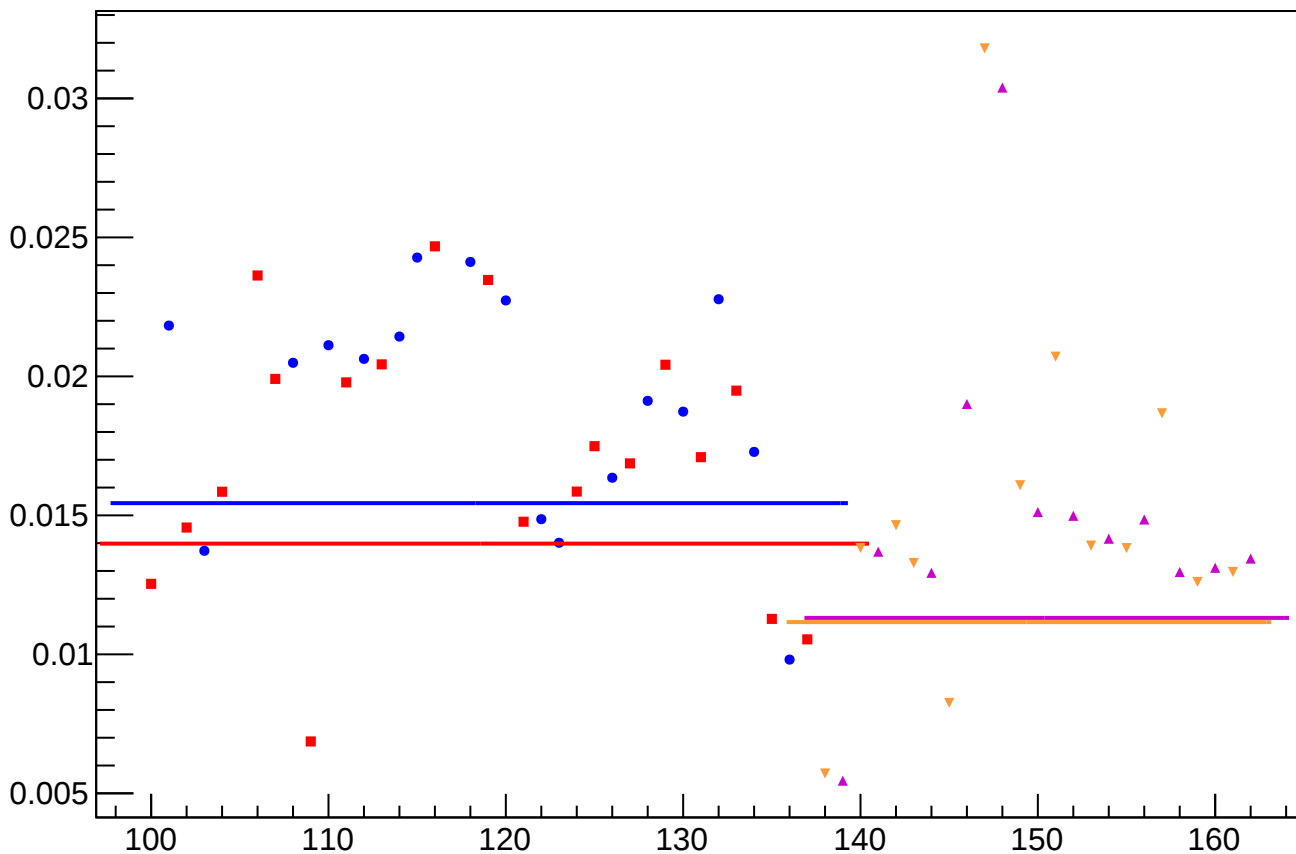
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.278+/-0.000 χ^2/NDF : 24386336615.5/28

Out: 0.186+/-0.000 χ^2/NDF : 36185806578.9/31

All: 0.231+/-0.000 χ^2/NDF : 60945800668.2/6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.011+/-0.000 χ^2/NDF : 2839101.2/12

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.011+/-0.000 χ^2/NDF : 2806528.2/11

Left: 0.011+/-0.000 χ^2/NDF : 5647029.4/24

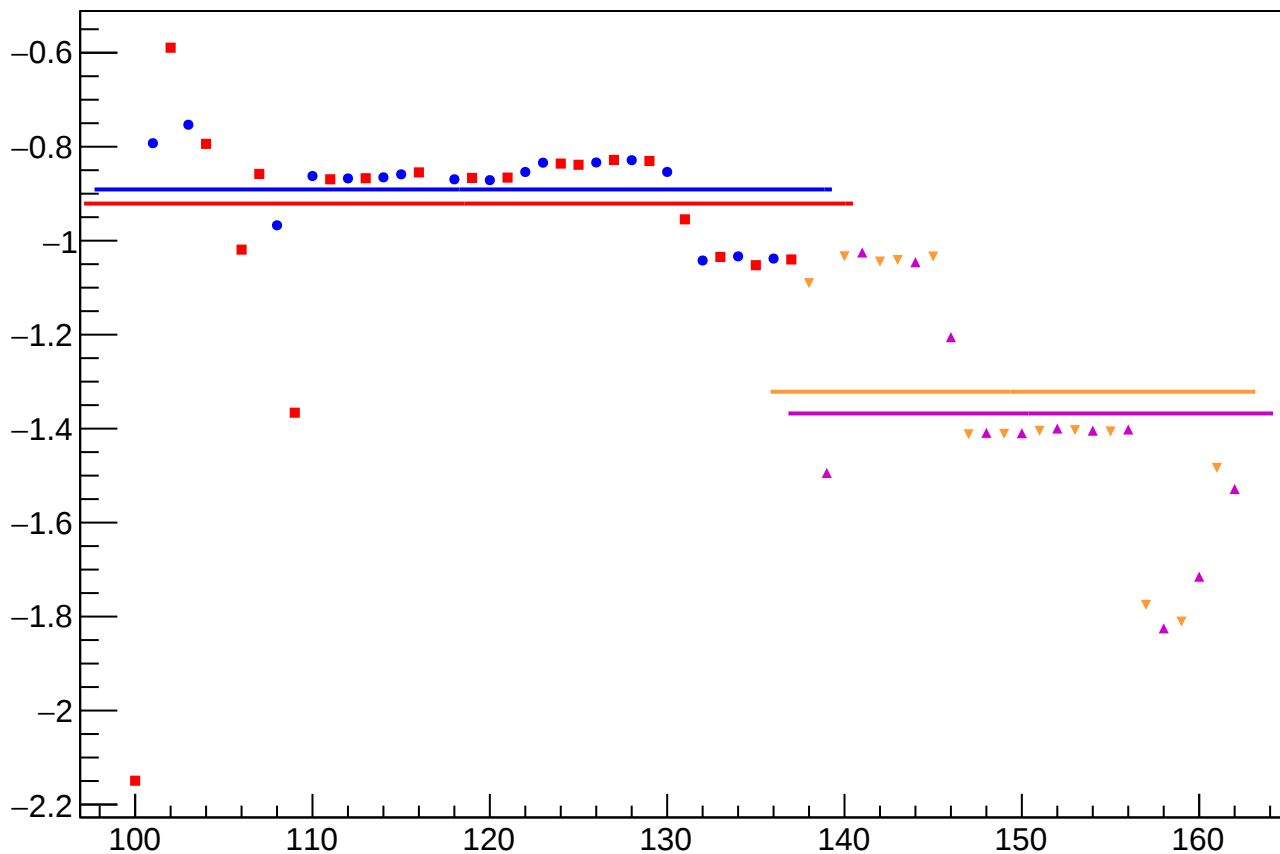
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.012+/-0.000 χ^2/NDF : 4551528.6/28

Out: 0.012+/-0.000 χ^2/NDF : 4711555.5/31

All: 0.012+/-0.000 χ^2/NDF : 9277597.9/60

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.321+/-0.000 χ^2/NDF : 449662082.7/12

Right Out: -0.921+/-0.000 χ^2/NDF : 131183059.9/18

Left In: -1.368+/-0.000 χ^2/NDF : 410912250.5/11

Left: -1.344+/-0.000 χ^2/NDF : 868255649.2/24

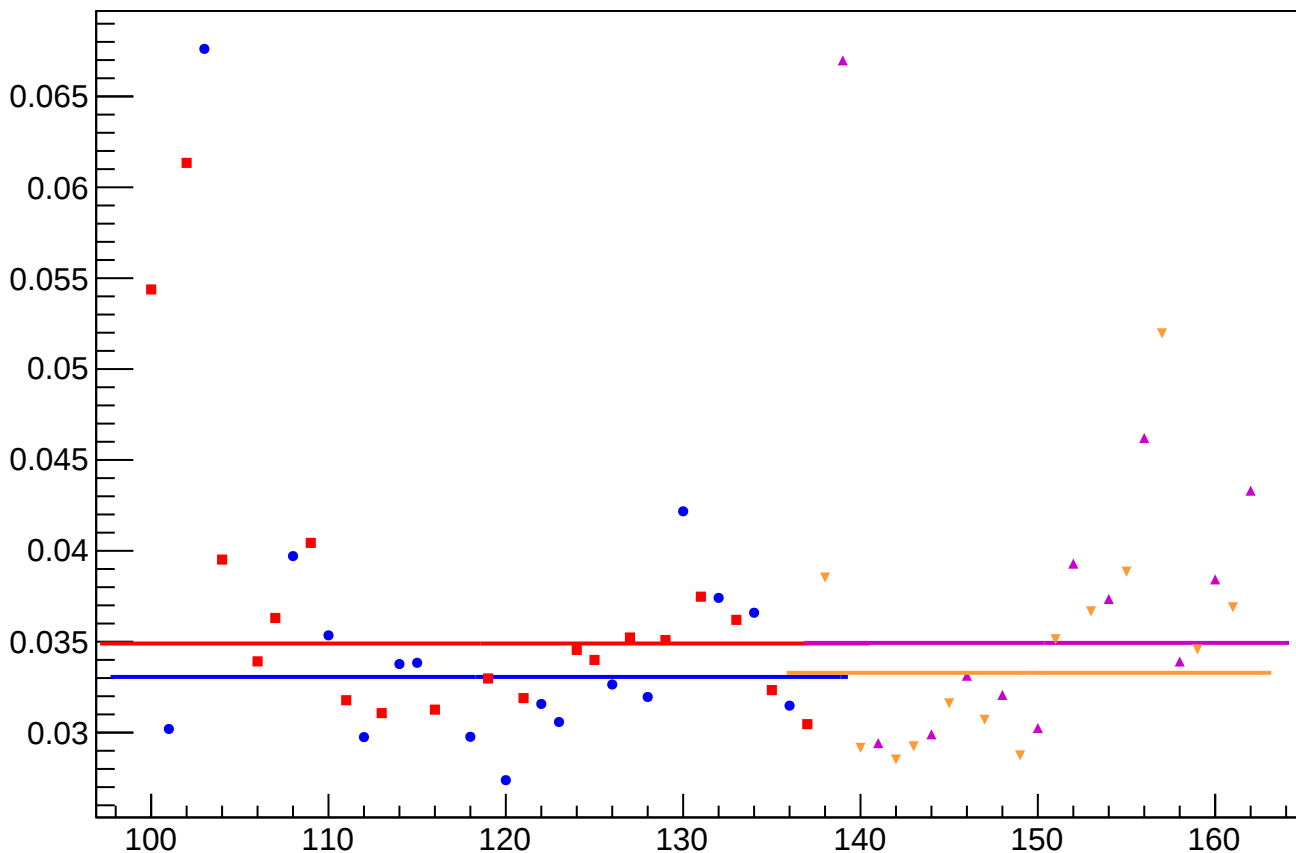
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.159+/-0.000 χ^2/NDF : 1137414816.0/28

Out: -1.160+/-0.000 χ^2/NDF : 1063742542.6/31

All: -1.159+/-0.000 χ^2/NDF : 2201158533.5/6

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.033+/-0.000 χ^2/NDF : 352231.6/12

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.035+/-0.000 χ^2/NDF : 617609.1/11

Left: 0.034+/-0.000 χ^2/NDF : 989280.7/24

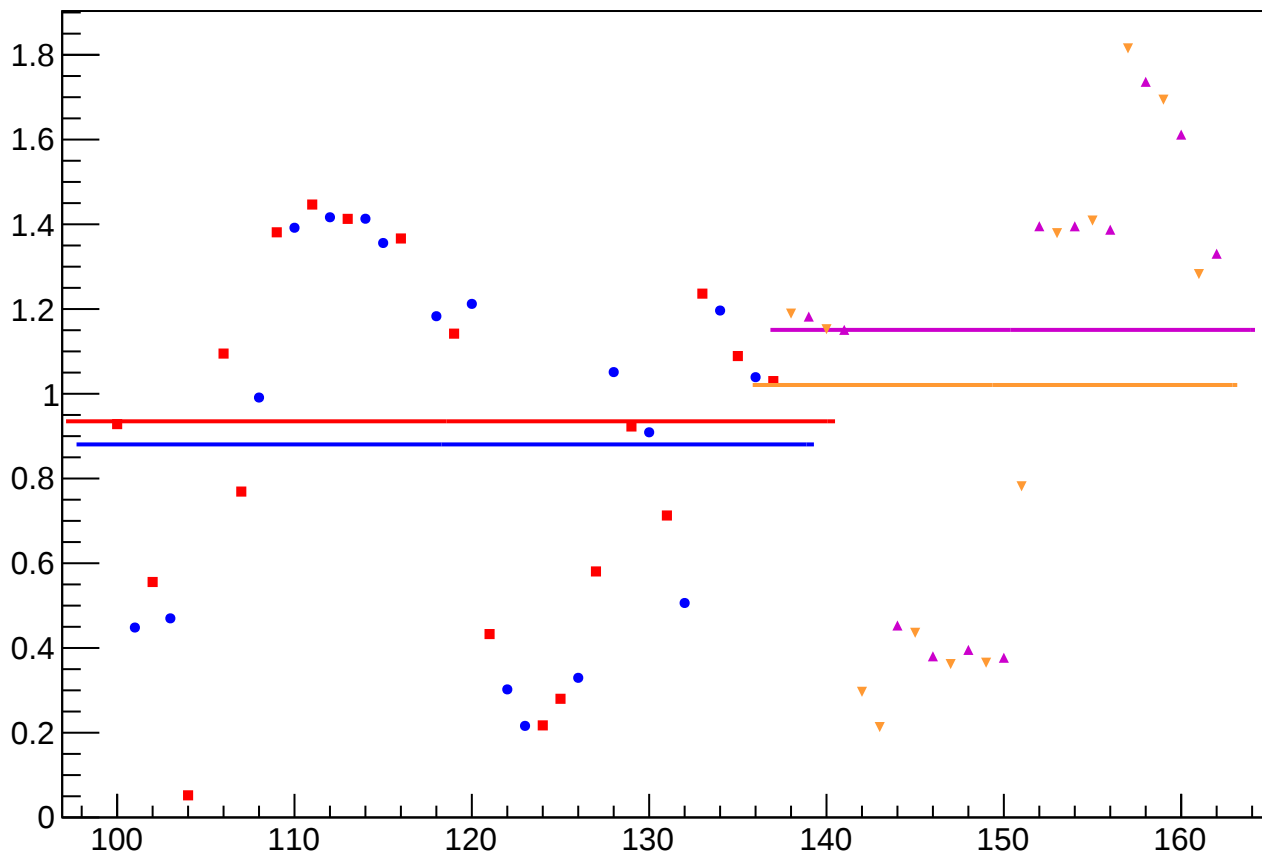
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.034+/-0.000 χ^2/NDF : 1048088.8/28

Out: 0.034+/-0.000 χ^2/NDF : 642183.7/31

All: 0.034+/-0.000 χ^2/NDF : 1690654.4/60

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000

χ^2/NDF : 6400108121.4/16

Left: 1.086 $\pm$ 0.000

χ^2/NDF : 51253640976.0/24

Left Out: 1.021 $\pm$ 0.000

χ^2/NDF : 28549891057.0/12

Right: 0.909 $\pm$ 0.000

χ^2/NDF : 16315238009.2/35

Right Out: 0.935 $\pm$ 0.000

χ^2/NDF : 9833525935.6/18

In: 1.066 $\pm$ 0.000

χ^2/NDF : 30773920500.2/28

Out: 0.992 $\pm$ 0.000

χ^2/NDF : 38664121852.9/31

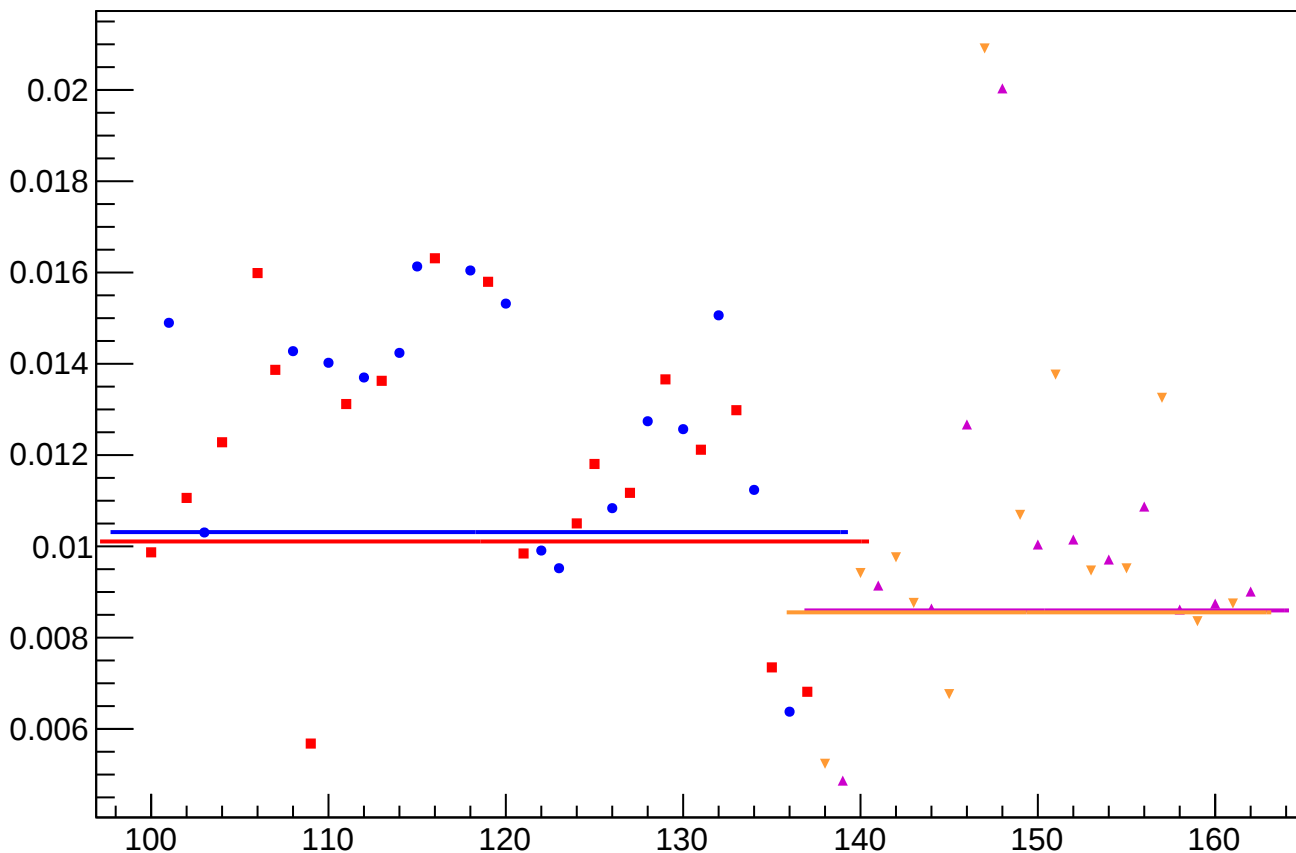
Left In: 1.151 $\pm$ 0.000

χ^2/NDF : 21728382453.2/11

All: 1.029 $\pm$ 0.000

χ^2/NDF : 69900343349.7/66

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 1653271.6/12

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 1557248.6/11

Left: 0.009+/-0.000 χ^2/NDF : 3210725.1/24

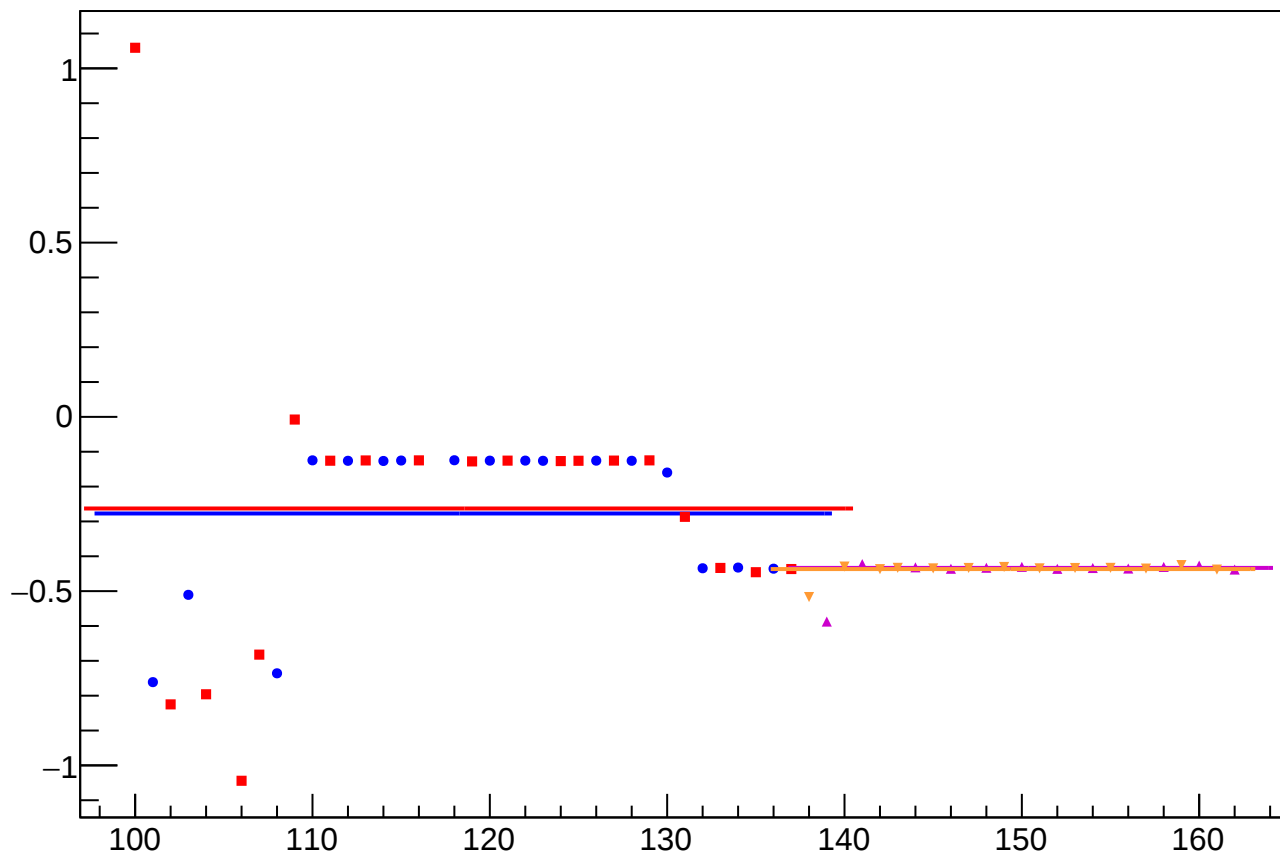
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3001607.1/28

Out: 0.009+/-0.000 χ^2/NDF : 3016071.8/31

All: 0.009+/-0.000 χ^2/NDF : 6018409.8/60

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277+/-0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.437+/-0.000 χ^2/NDF : 25425410.0/12

Right Out: -0.263+/-0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433+/-0.000 χ^2/NDF : 23350215.6/11

Left: -0.435+/-0.000 χ^2/NDF : 49215772.4/24

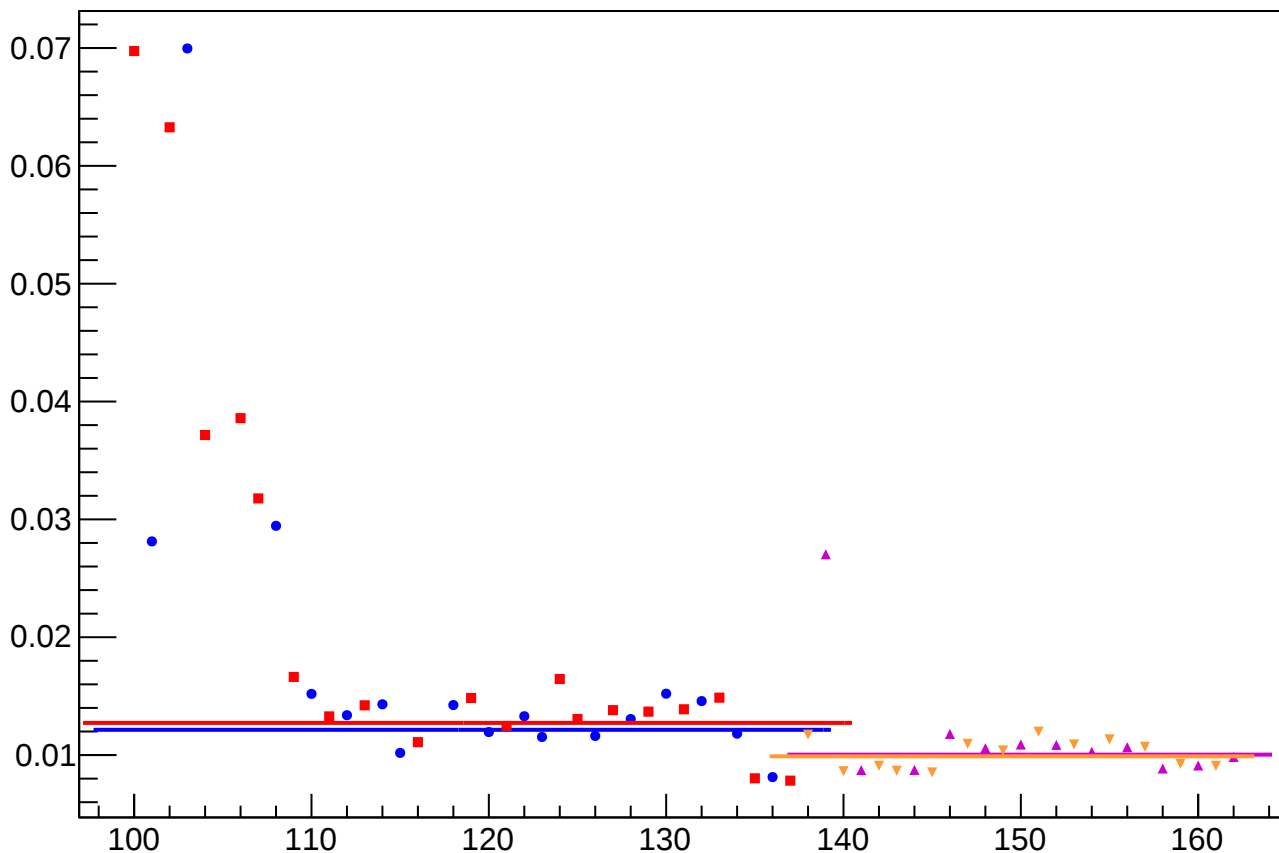
Right: -0.270+/-0.000 χ^2/NDF : 1952121842.2/35

In: -0.388+/-0.000 χ^2/NDF : 1519257409.4/28

Out: -0.390+/-0.000 χ^2/NDF : 1694311293.7/31

All: -0.389+/-0.000 χ^2/NDF : 3213706781.5/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 ± 0.000 χ^2/NDF : 1727494.7/16

Left Out: 0.010 ± 0.000 χ^2/NDF : 222791.6/12

Right Out: 0.013 ± 0.000 χ^2/NDF : 1969165.0/18

Left In: 0.010 ± 0.000 χ^2/NDF : 680266.7/11

Left: 0.010 ± 0.000 χ^2/NDF : 904680.2/24

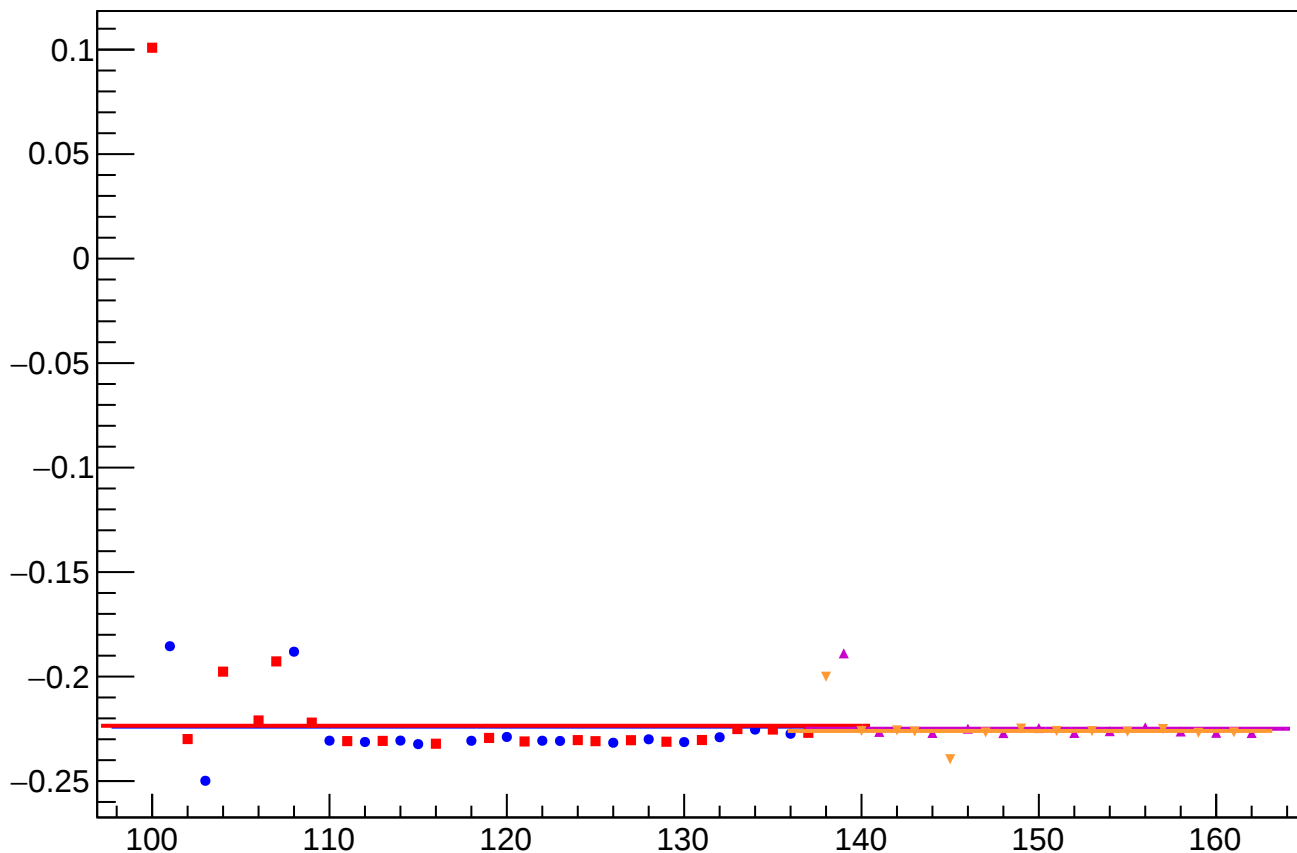
Right: 0.012 ± 0.000 χ^2/NDF : 3707277.9/35

In: 0.011 ± 0.000 χ^2/NDF : 2609898.6/28

Out: 0.011 ± 0.000 χ^2/NDF : 2543530.3/31

All: 0.011 ± 0.000 χ^2/NDF : 5153448.1/60

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226+/-0.000 χ^2/NDF : 20575972.1/12

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225+/-0.000 χ^2/NDF : 14244651.2/11

Left: -0.226+/-0.000 χ^2/NDF : 35012797.5/24

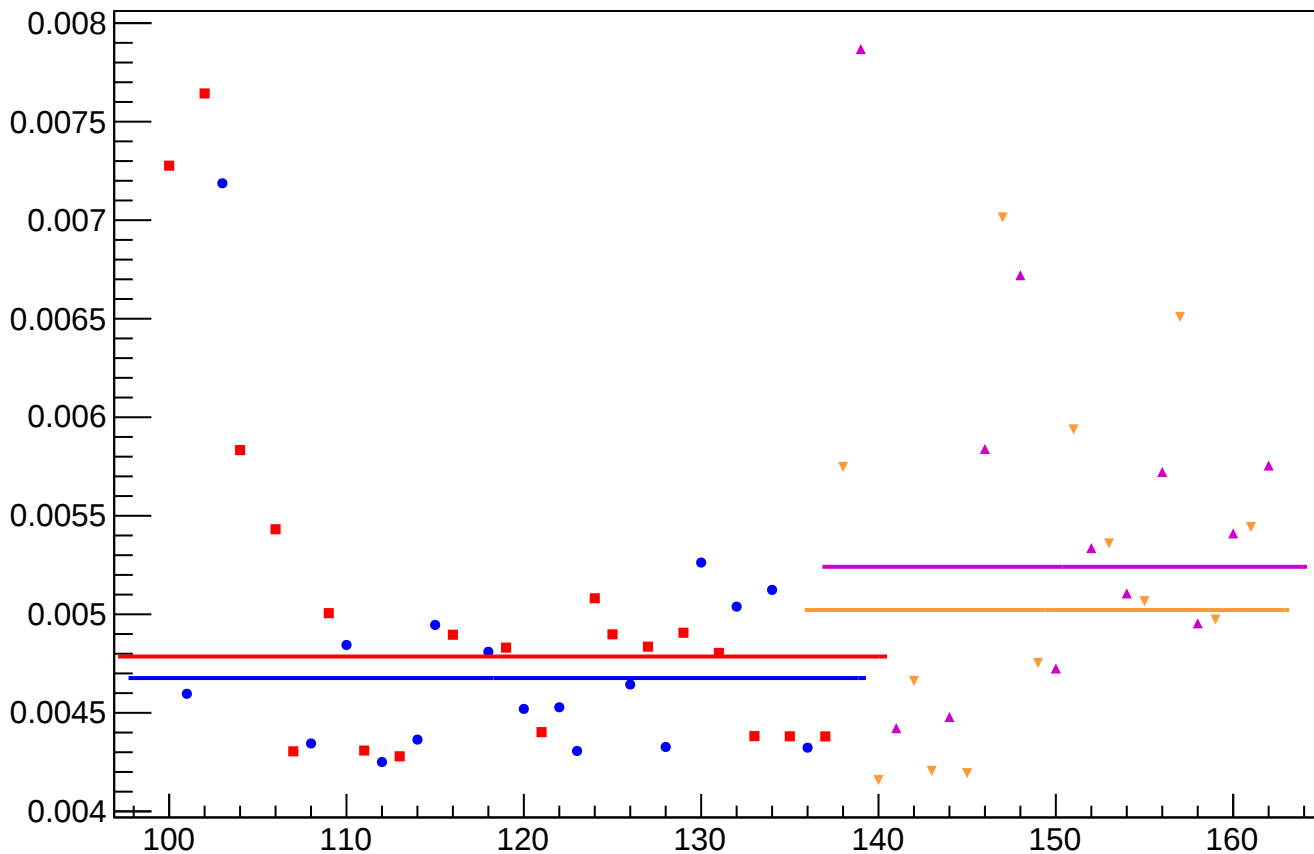
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.224+/-0.000 χ^2/NDF : 89103433.5/28

Out: -0.225+/-0.000 χ^2/NDF : 189658568.7/31

All: -0.225+/-0.000 χ^2/NDF : 278819537.5/60

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 434077.0/12

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 381363.6/11

Left: 0.005+/-0.000 χ^2/NDF : 831785.0/24

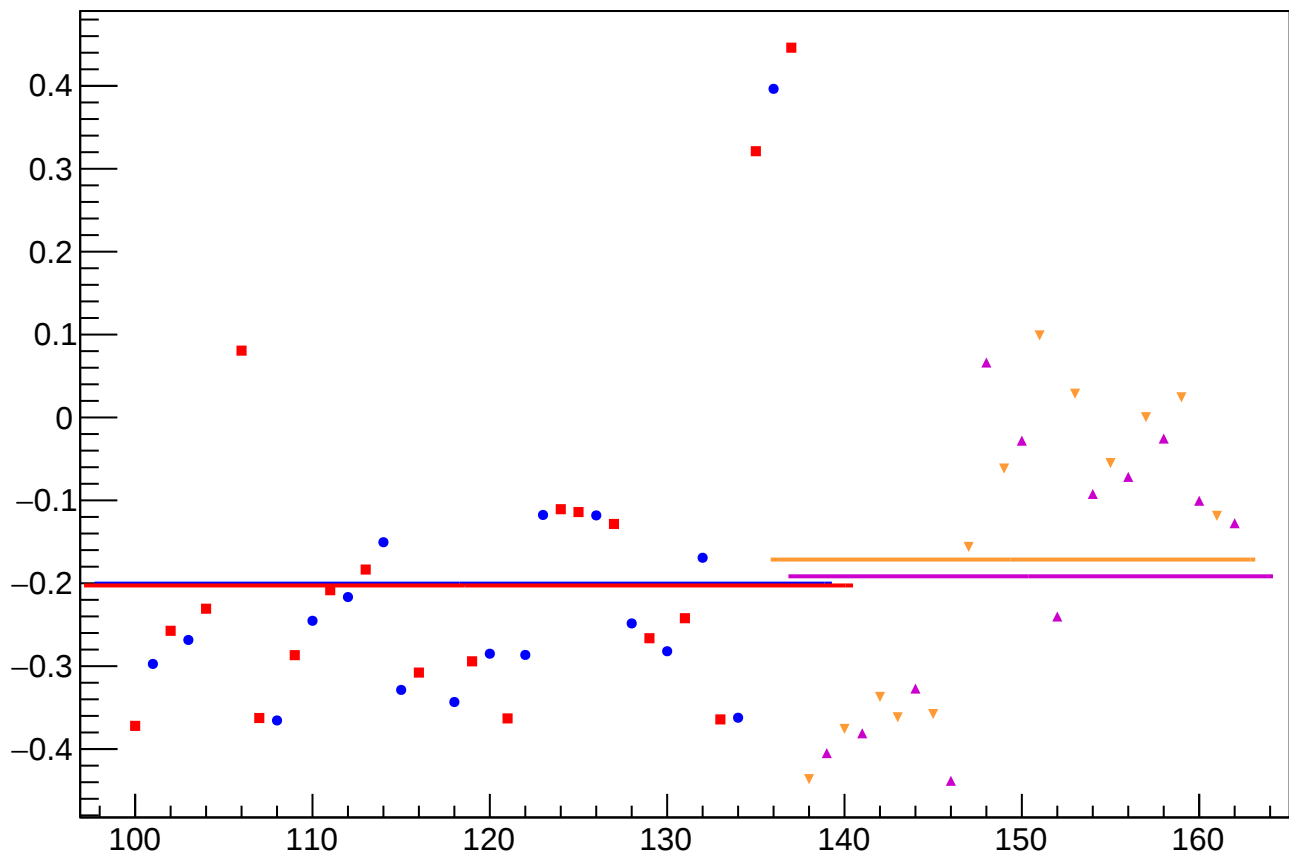
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 658257.1/28

Out: 0.005+/-0.000 χ^2/NDF : 699614.9/31

All: 0.005+/-0.000 χ^2/NDF : 1360524.5/60

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.171+/-0.000 χ^2/NDF : 10428722823.3/12

Right Out: -0.203+/-0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.192+/-0.000 χ^2/NDF : 7397567278.1/11

Left: -0.181+/-0.000 χ^2/NDF : 17888532722.9/24

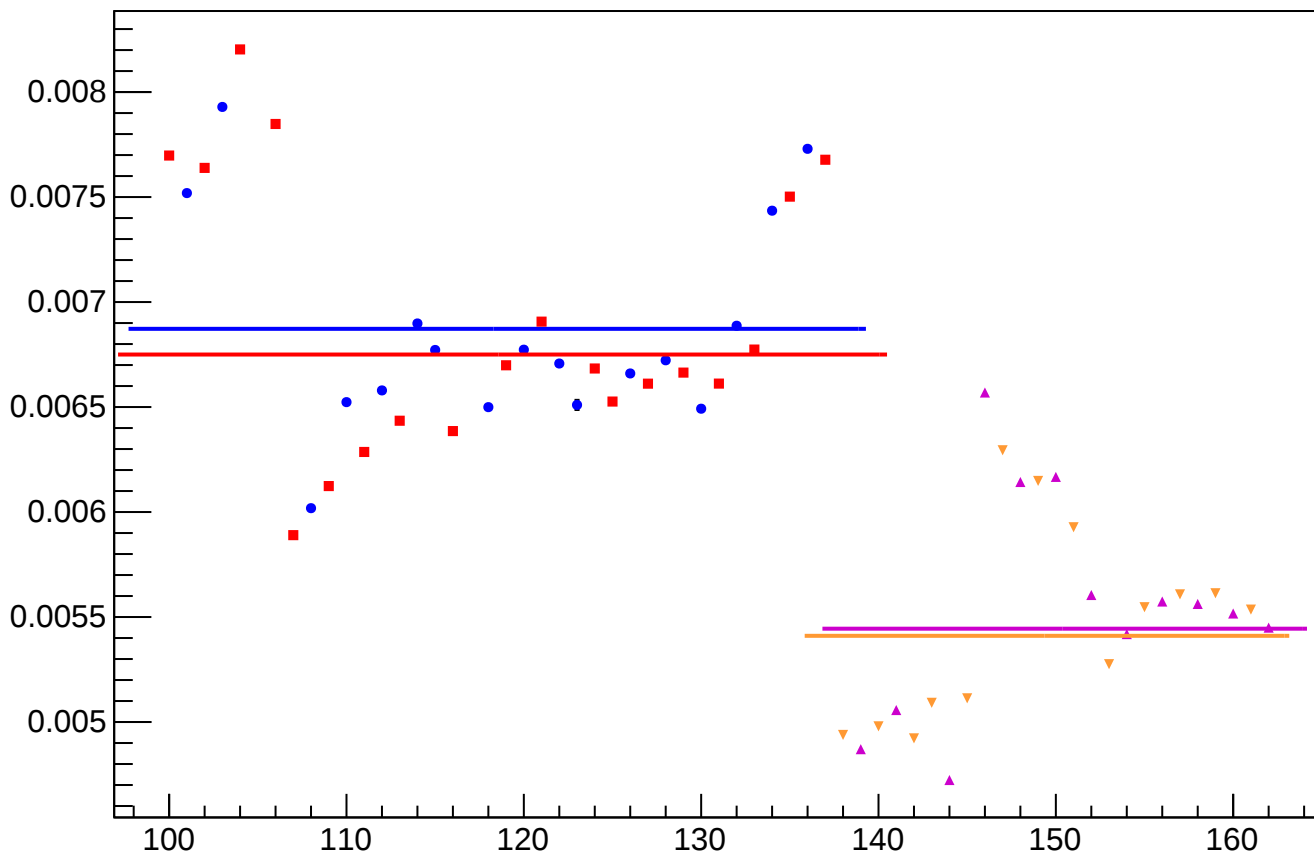
Right: -0.202+/-0.000 χ^2/NDF : 11002181720.9/35

In: -0.194+/-0.000 χ^2/NDF : 13378532479.9/28

Out: -0.182+/-0.000 χ^2/NDF : 15555994756.4/31

All: -0.188+/-0.000 χ^2/NDF : 28971005975.2/100

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :105389.9/12

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :143886.2/11

Left: 0.005+/-0.000 χ^2/NDF : 249627.7/24

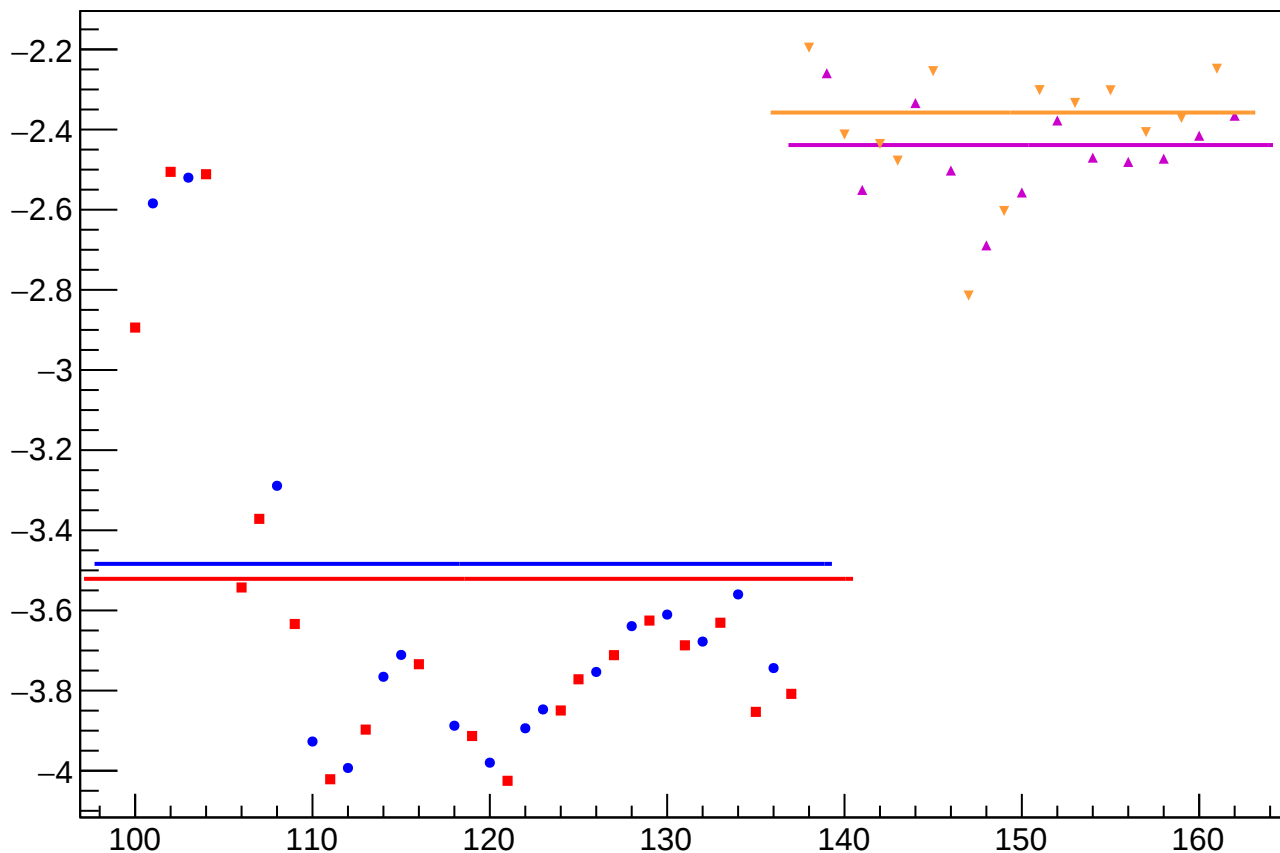
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :610204.6/28

Out: 0.006+/-0.000 χ^2/NDF :574309.4/31

All: 0.006+/-0.000 χ^2/NDF : 1185437.0/60

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.358+/-0.000 χ^2/NDF : 1627388254.4/12

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.439+/-0.000 χ^2/NDF : 932105661.9/11

Left: -2.398+/-0.000 χ^2/NDF : 2926691415.3/24

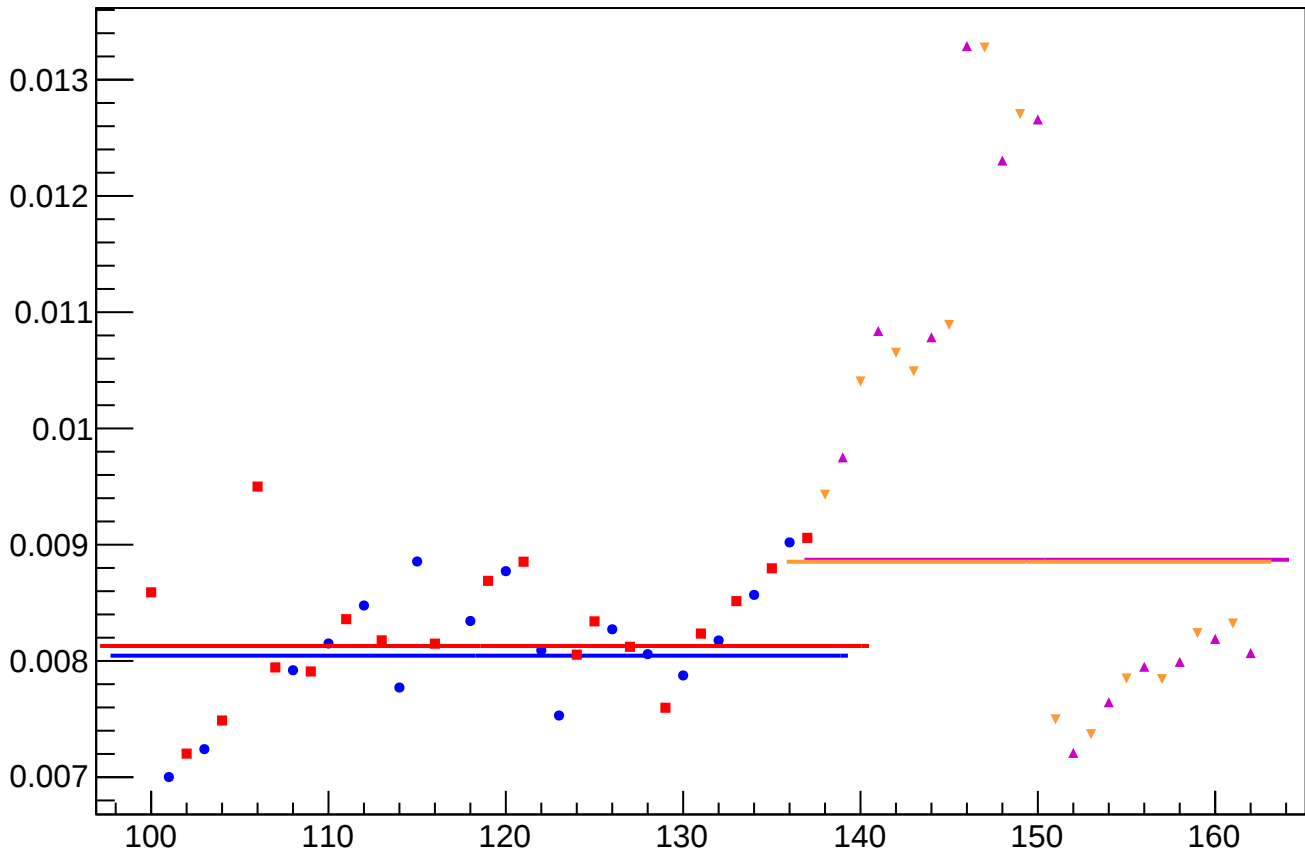
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.935+/-0.000 χ^2/NDF : 85794914487.5/28

Out: -2.914+/-0.000 χ^2/NDF : 100565812281.7/31

All: -2.924+/-0.000 χ^2/NDF : 186408406300.9

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 573252.9/12

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 683865.7/11

Left: 0.009+/-0.000 χ^2/NDF : 1257151.2/24

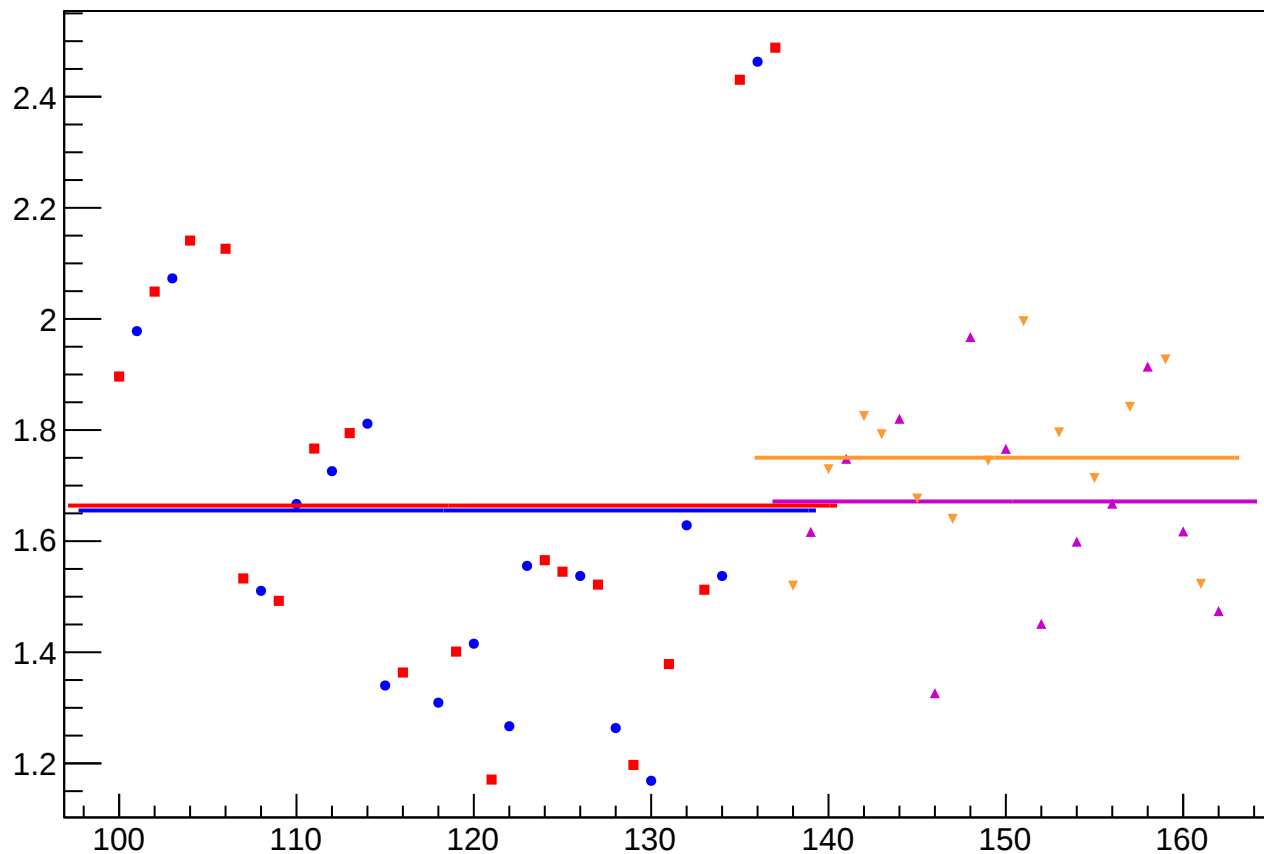
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 827781.3/28

Out: 0.009+/-0.000 χ^2/NDF : 686953.7/31

All: 0.008+/-0.000 χ^2/NDF : 1514905.5/60

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.750+/-0.000 χ^2/NDF :1493516192.7/12

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.671+/-0.000 χ^2/NDF :2242039907.4/11

Left: 1.711+/-0.000 χ^2/NDF : 3975289323.0/24

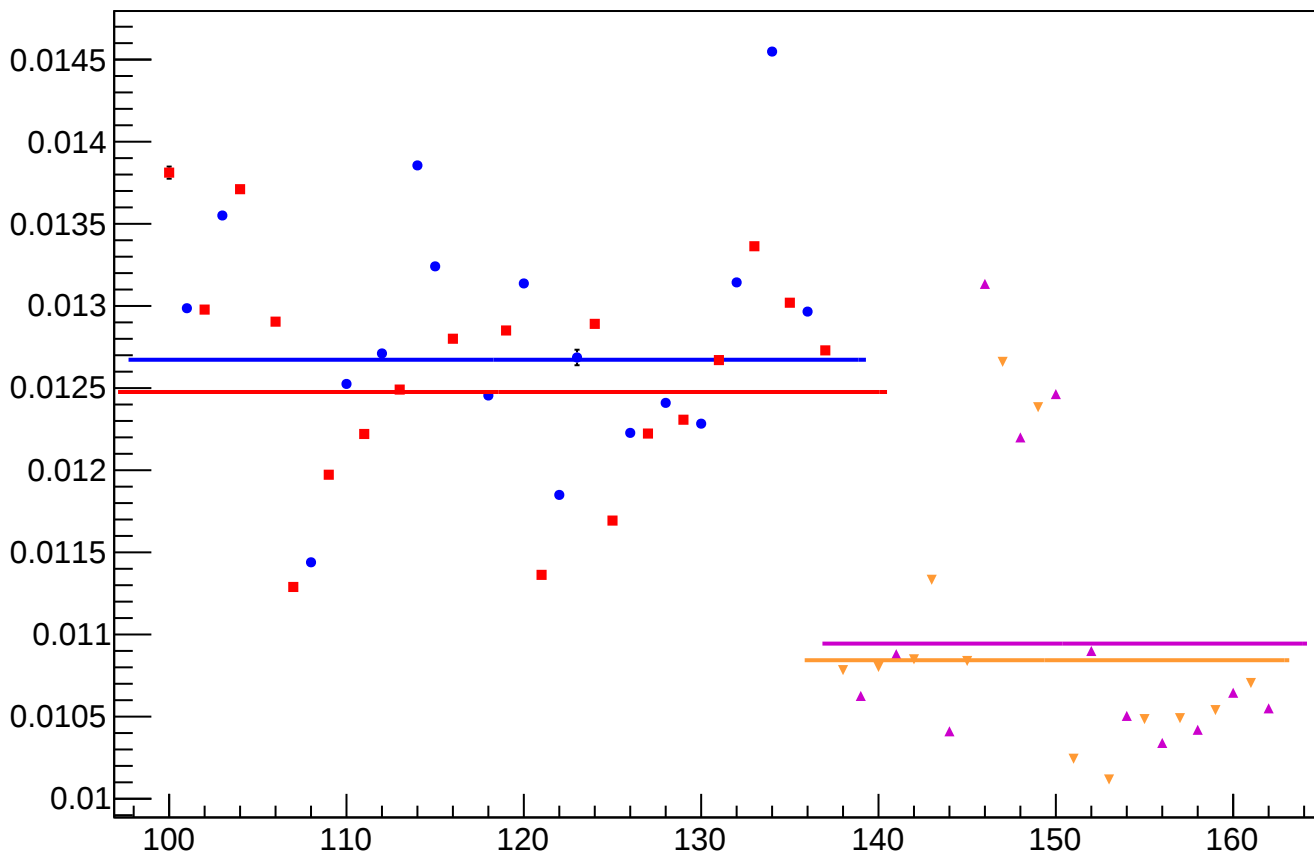
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.666+/-0.000 χ^2/NDF :8725482994.5/28

Out: 1.719+/-0.000 χ^2/NDF :7647682353.5/31

All: 1.693+/-0.000 χ^2/NDF : 16543804358.0/6

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 31801.3/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:72754.7/12

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 39134.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:98589.1/11

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 172134.6/24

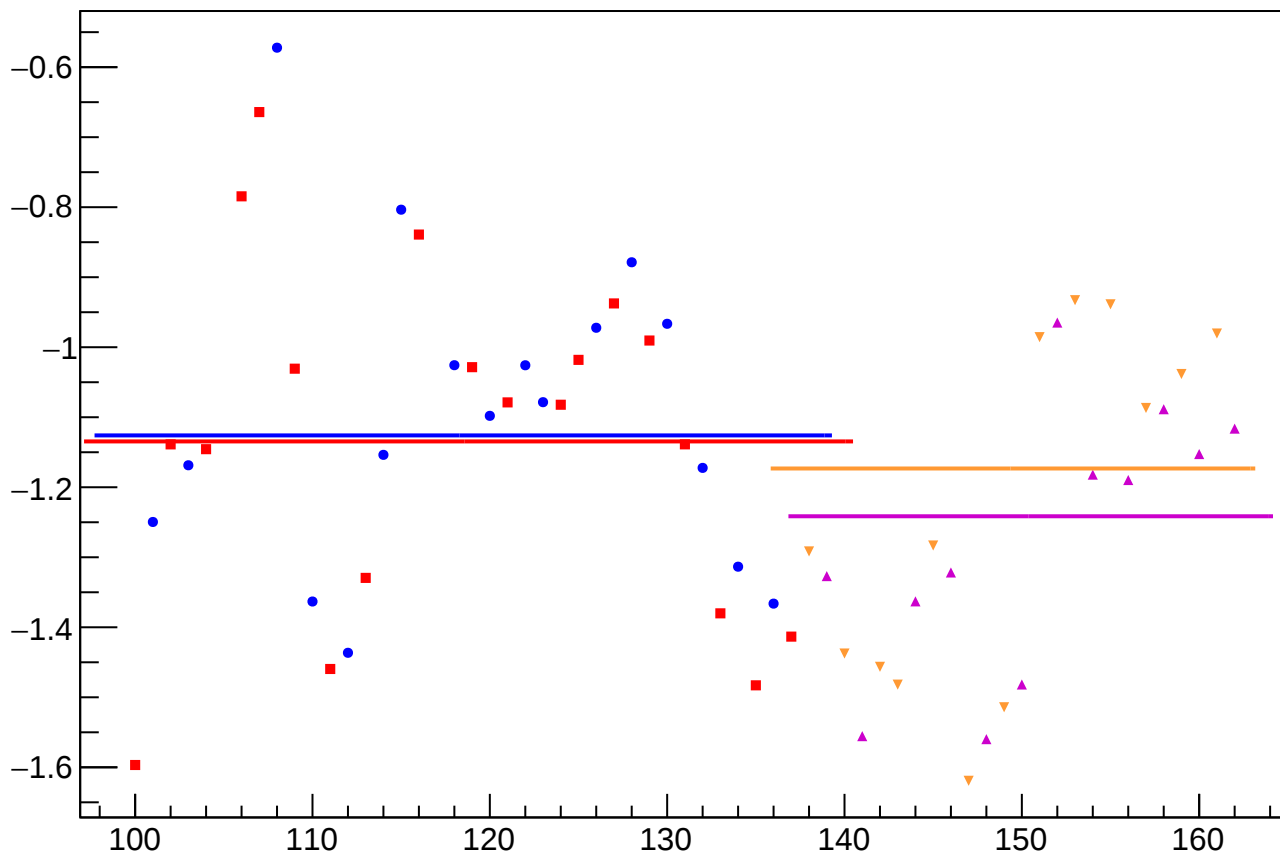
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 72572.8/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:289125.0/28

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:262786.7/31

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 553529.2/60

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.173+/-0.000 χ^2/NDF : 6937774297.2/12

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.241+/-0.000 χ^2/NDF : 4212465839.2/11

Left: -1.207+/-0.000 χ^2/NDF : 11456707001.2/24

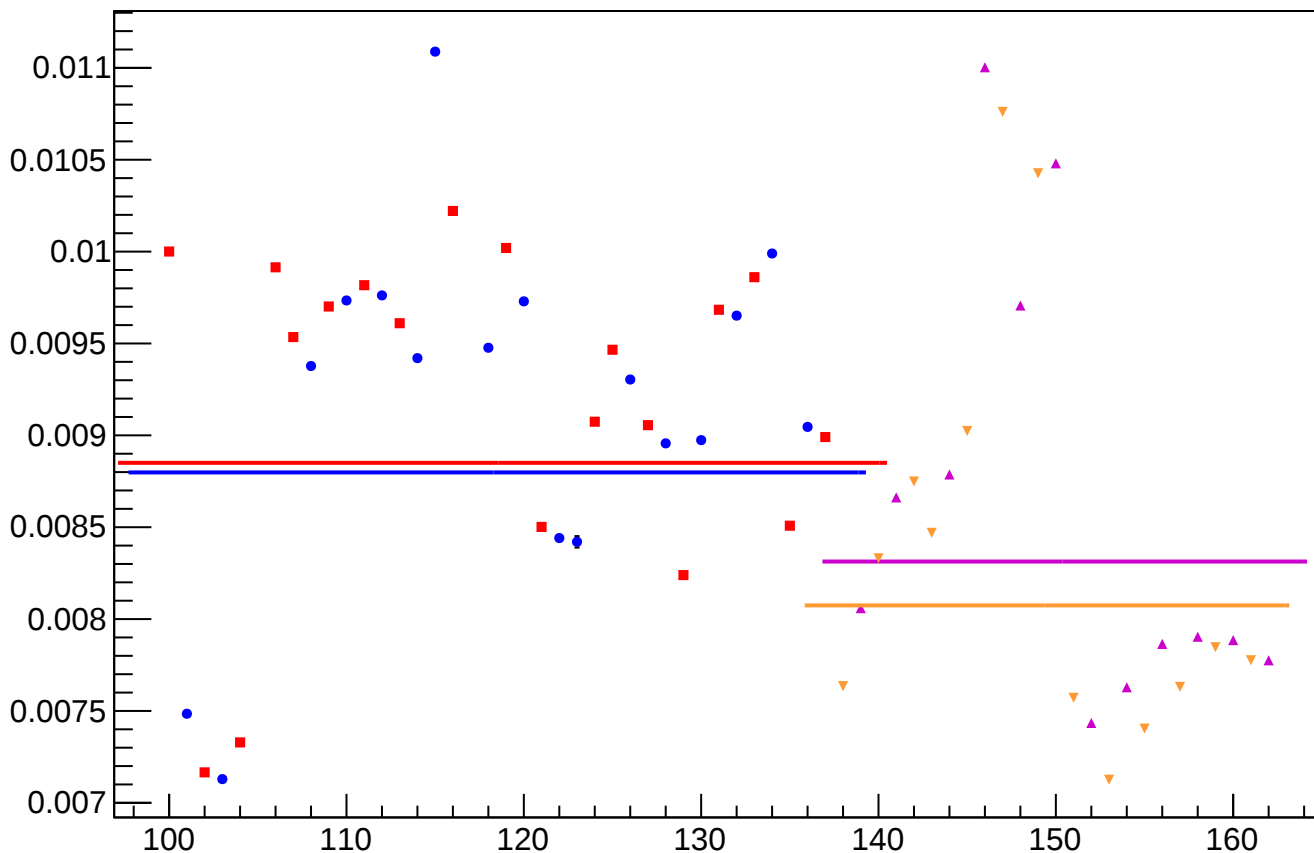
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.196+/-0.000 χ^2/NDF : 8456985135.8/28

Out: -1.158+/-0.000 χ^2/NDF : 10692872962.4/31

All: -1.177+/-0.000 χ^2/NDF : 19305311617.4/74

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF : 227397.2/12

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF : 228581.7/11

Left: 0.008+/-0.000 χ^2/NDF : 463481.4/24

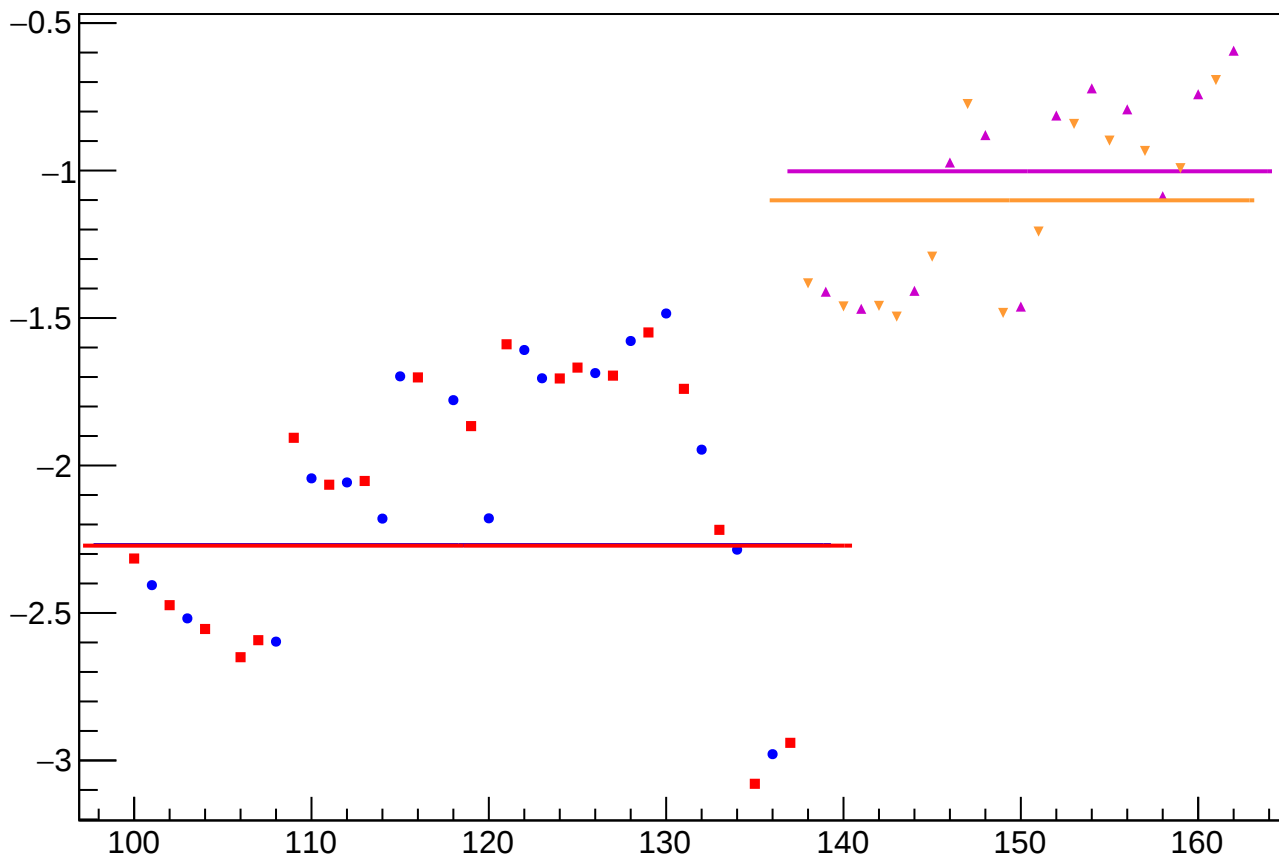
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.009+/-0.000 χ^2/NDF : 403789.6/28

Out: 0.008+/-0.000 χ^2/NDF : 463898.1/31

All: 0.008+/-0.000 χ^2/NDF : 871283.3/60

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.101+/-0.000 χ^2/NDF : 14592810217.3/12

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -1.003+/-0.000 χ^2/NDF : 16850611578.1/11

Left: -1.052+/-0.000 χ^2/NDF : 32345003308.8/24

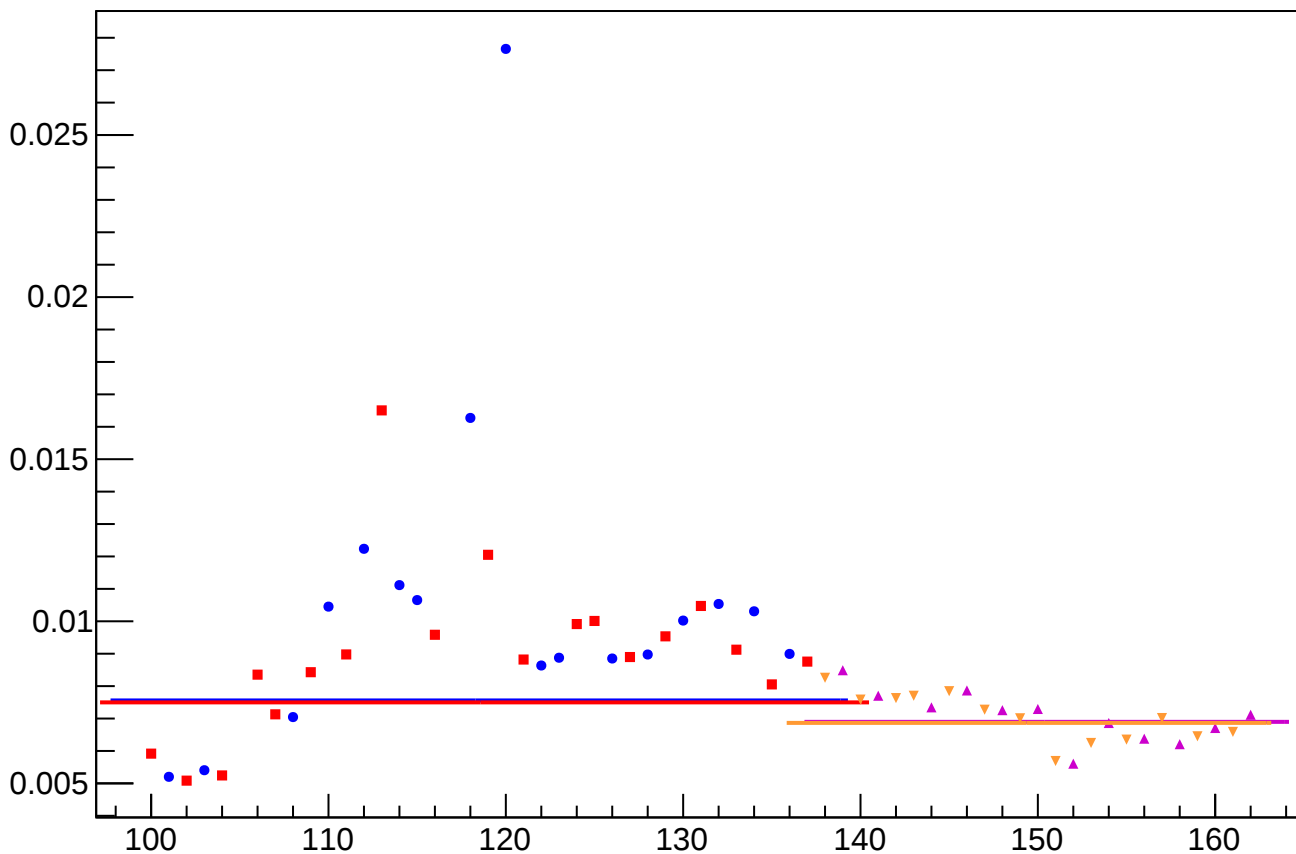
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.409+/-0.000 χ^2/NDF : 130326238392.9/28

Out: -1.509+/-0.000 χ^2/NDF : 122469734682.1/31

All: -1.460+/-0.000 χ^2/NDF : 254202425646.9

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :189683.6/12

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.007+/-0.000 χ^2/NDF :210495.3/11

Left: 0.007+/-0.000 χ^2/NDF : 400367.6/24

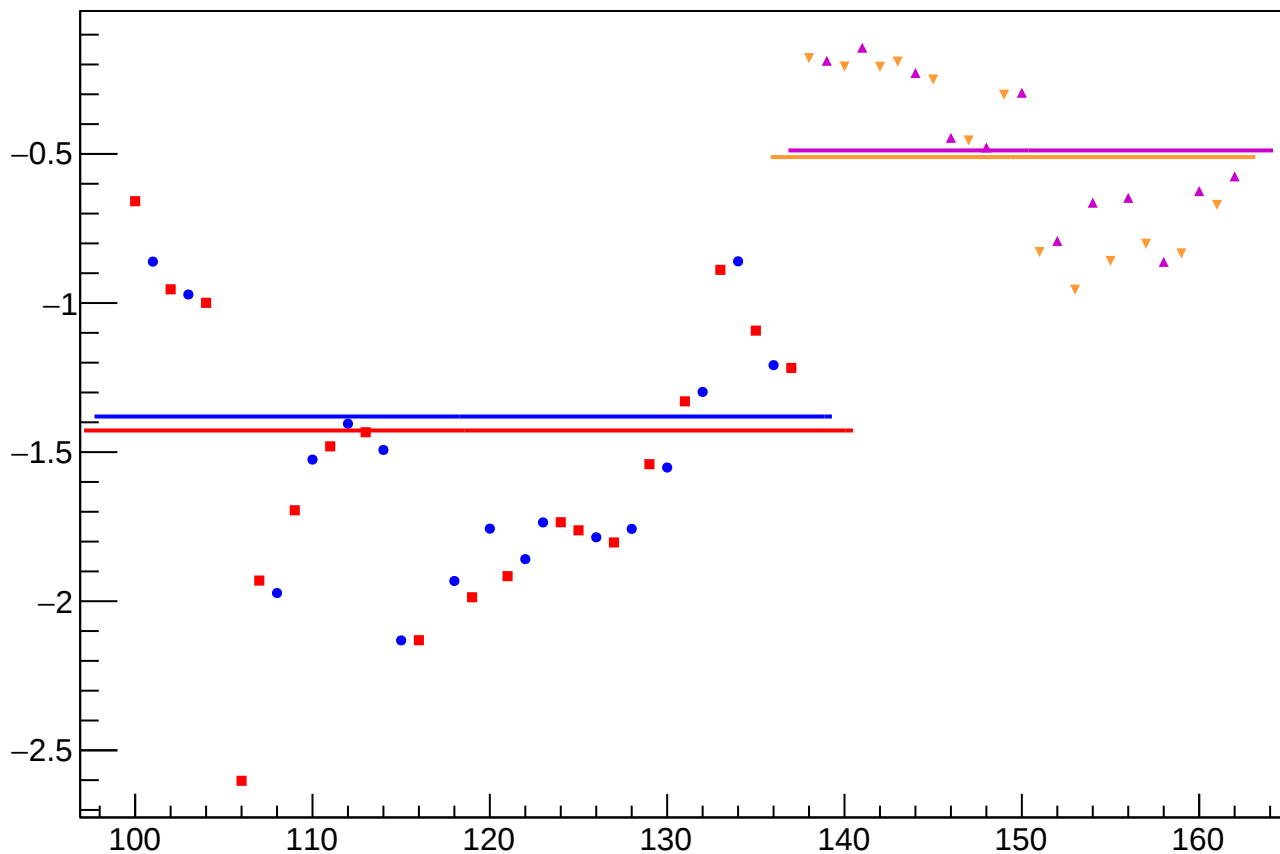
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF :1483687.3/28

Out: 0.007+/-0.000 χ^2/NDF :1175565.9/31

All: 0.007+/-0.000 χ^2/NDF : 2659402.0/60

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.499+/-0.000

χ^2/NDF : 72033789827.3/24

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Left Out: -0.510+/-0.000

χ^2/NDF : 43887253270.8/12

In: -0.671+/-0.000

χ^2/NDF : 130212114285.0/28

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

Out: -0.722+/-0.000

χ^2/NDF : 171734561791.2/31

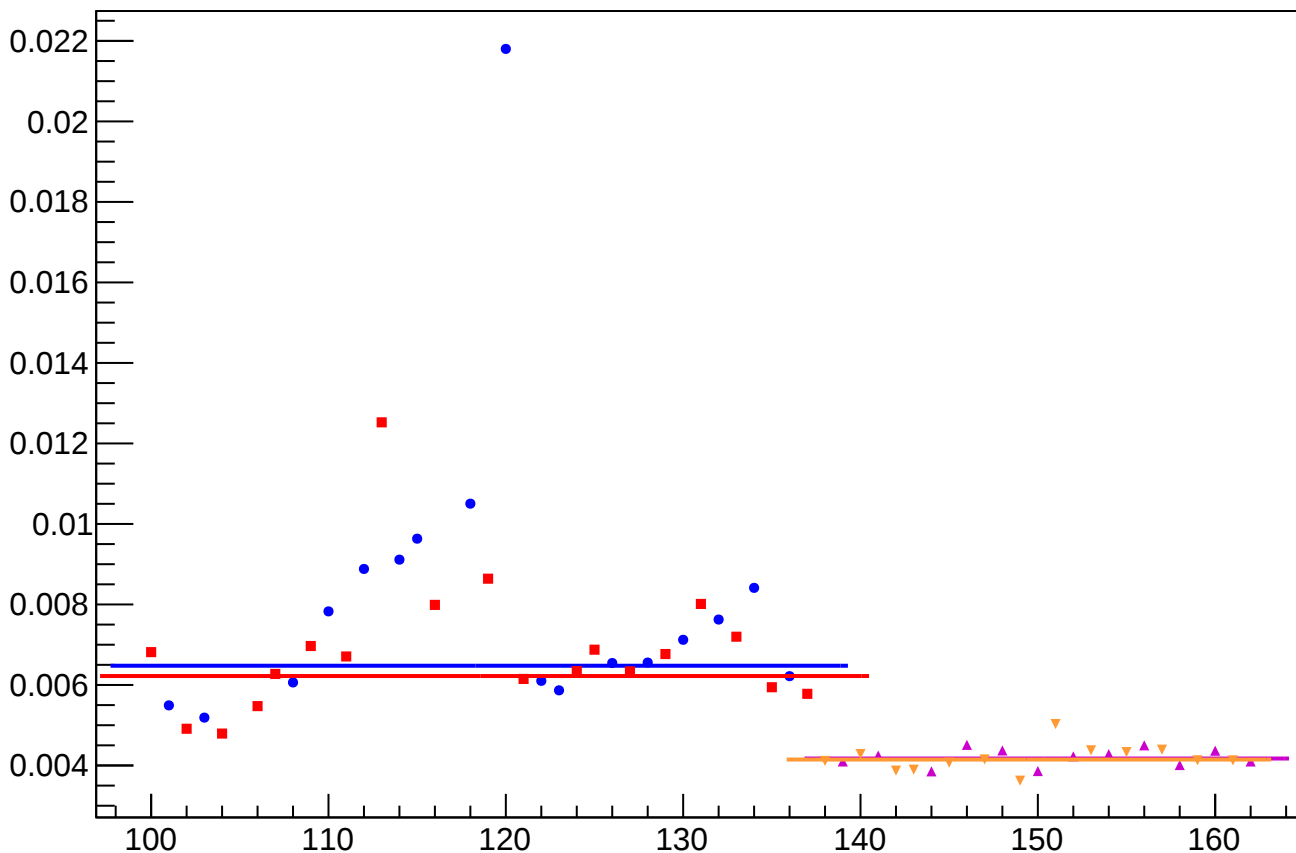
Left In: -0.488+/-0.000

χ^2/NDF : 28021783113.0/11

All: -0.697+/-0.000

χ^2/NDF : 302790606676.4

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006 ± 0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004 ± 0.000 χ^2/NDF : 87303.6/12

Right Out: 0.006 ± 0.000 χ^2/NDF : 423437.1/18

Left In: 0.004 ± 0.000 χ^2/NDF : 46624.2/11

Left: 0.004 ± 0.000 χ^2/NDF : 134255.5/24

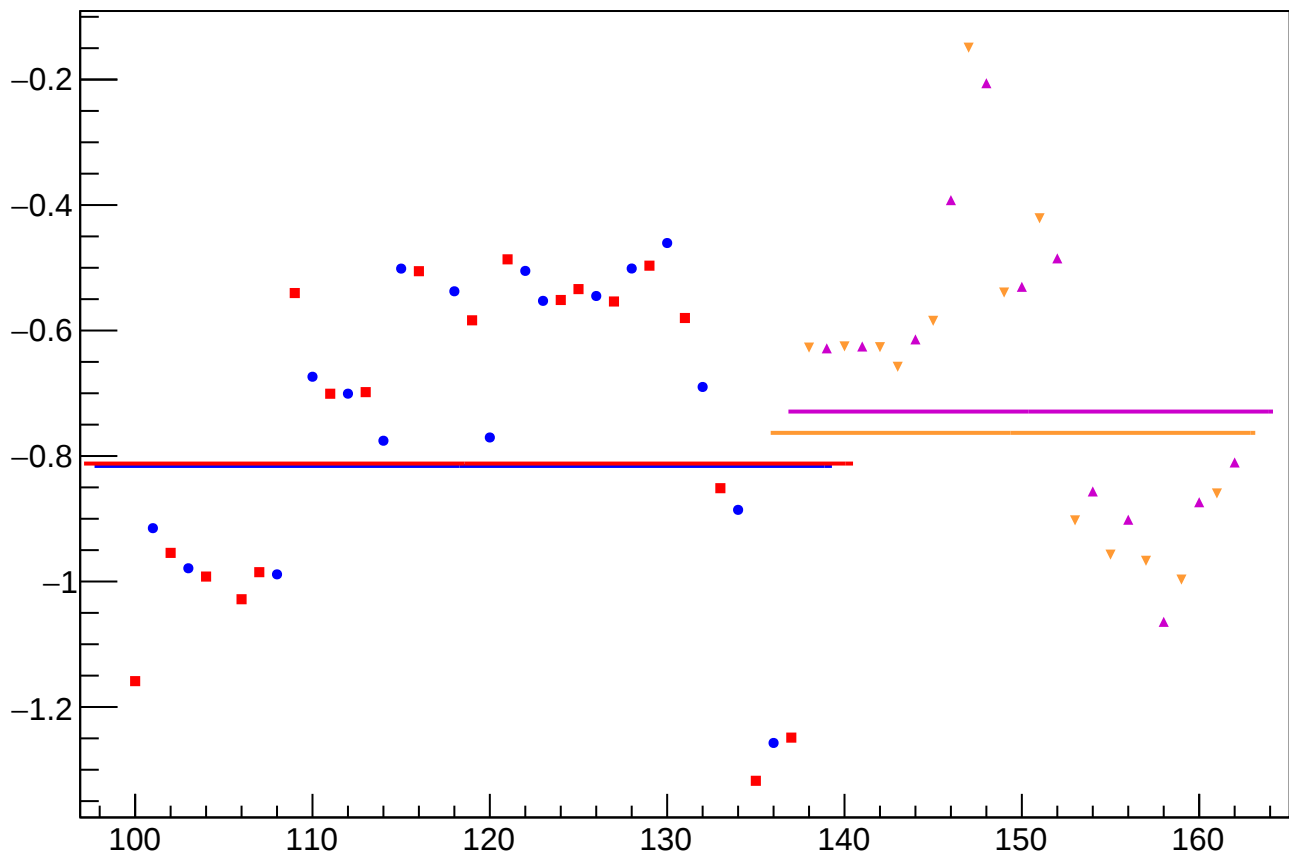
Right: 0.006 ± 0.000 χ^2/NDF : 1005263.6/35

In: 0.005 ± 0.000 χ^2/NDF : 1716011.6/28

Out: 0.005 ± 0.000 χ^2/NDF : 1516512.2/31

All: 0.005 ± 0.000 χ^2/NDF : 3232748.7/60

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.763+/-0.000 χ^2/NDF : 24485666015.6/12

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.729+/-0.000 χ^2/NDF : 24933776564.3/11

Left: -0.746+/-0.000 χ^2/NDF : 49694278342.4/24

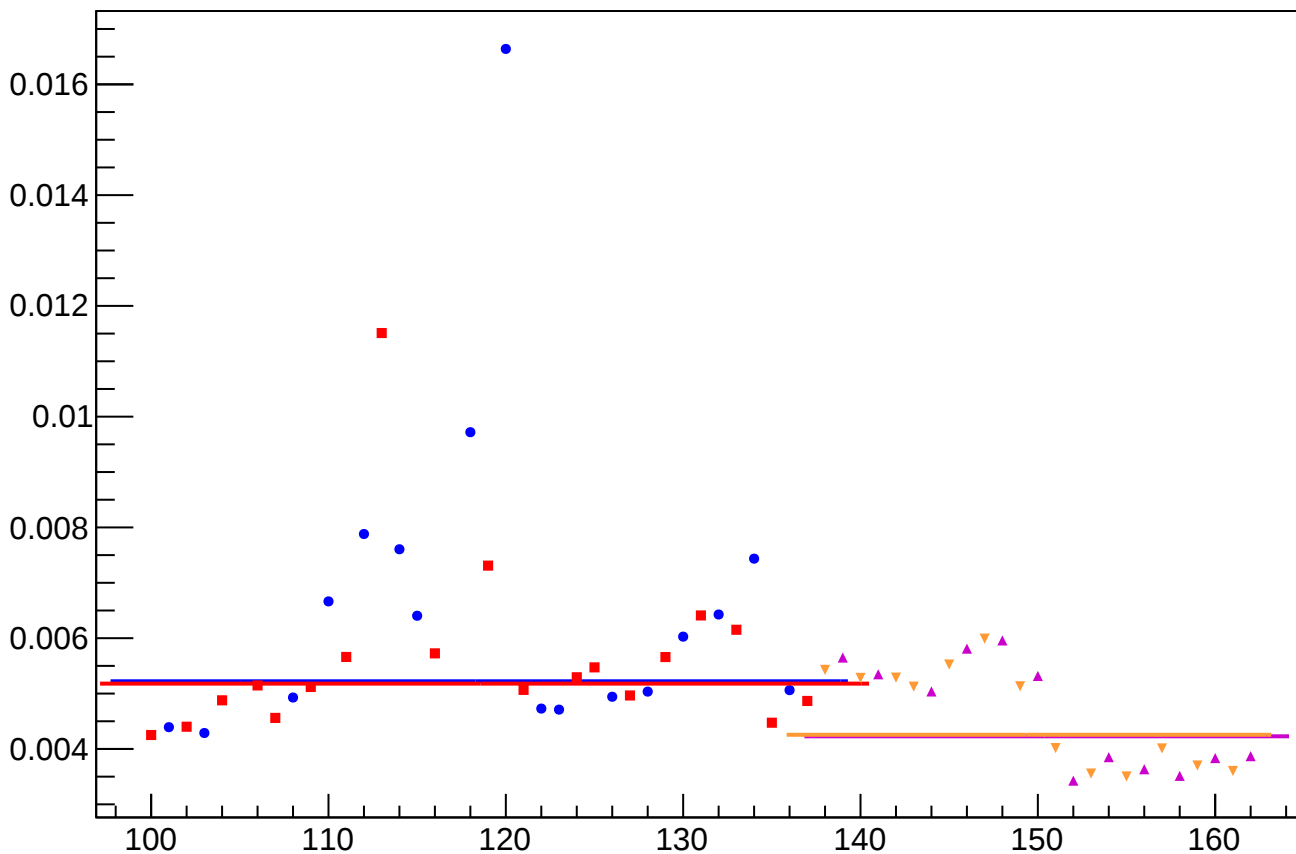
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.754+/-0.000 χ^2/NDF : 40153255725.6/28

Out: -0.779+/-0.000 χ^2/NDF : 41662329926.0/31

All: -0.767+/-0.000 χ^2/NDF : 82022340612.0/...

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF :635949.6/12

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :718777.6/11

Left: 0.004+/-0.000 χ^2/NDF : 1355089.5/24

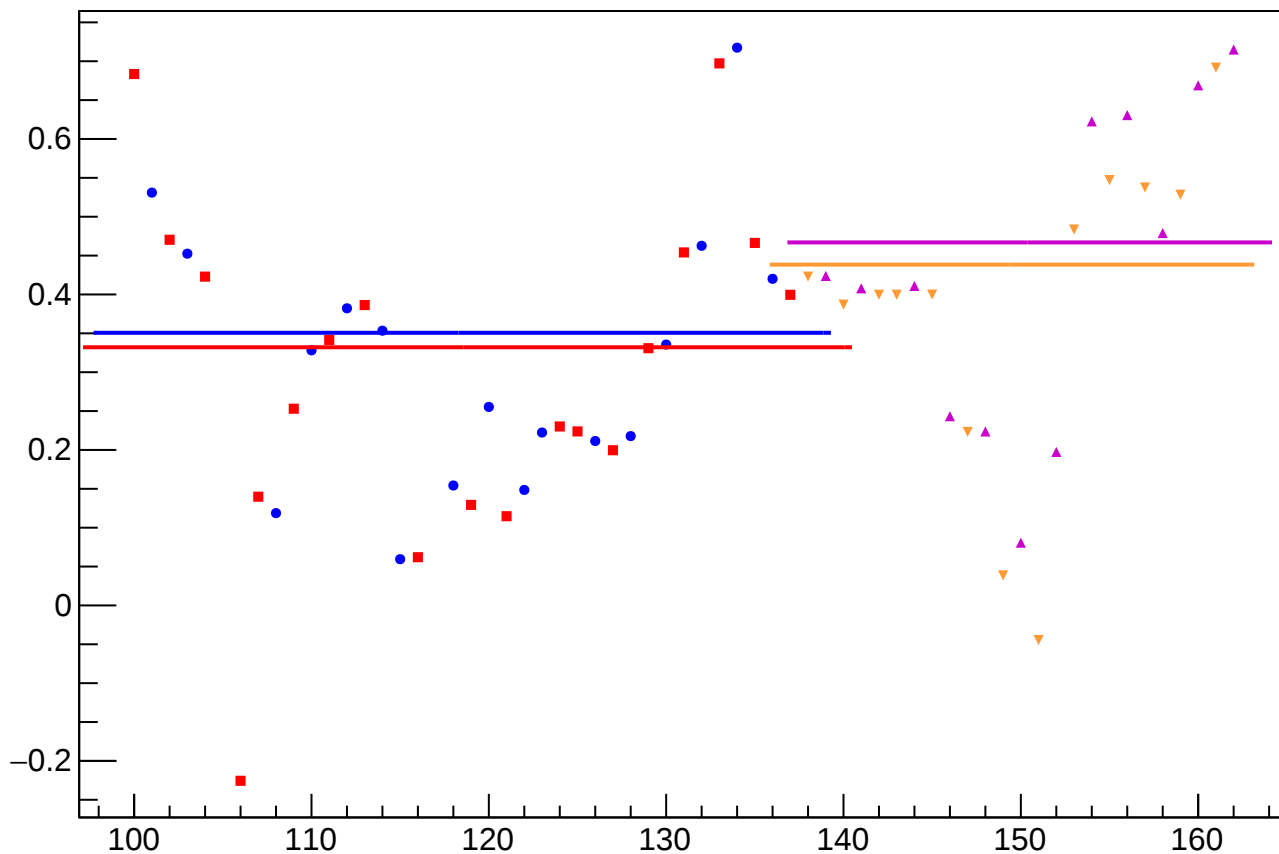
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.005+/-0.000 χ^2/NDF :1658205.9/28

Out: 0.005+/-0.000 χ^2/NDF :1256850.7/31

All: 0.005+/-0.000 χ^2/NDF : 2915938.0/60

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.453+/-0.000

χ^2/NDF : 52467258591.0/24

Left Out: 0.438+/-0.000

χ^2/NDF : 25099269200.9/12

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.429+/-0.000

χ^2/NDF : 37658372609.7/28

Out: 0.400+/-0.000

χ^2/NDF : 39754266194.2/31

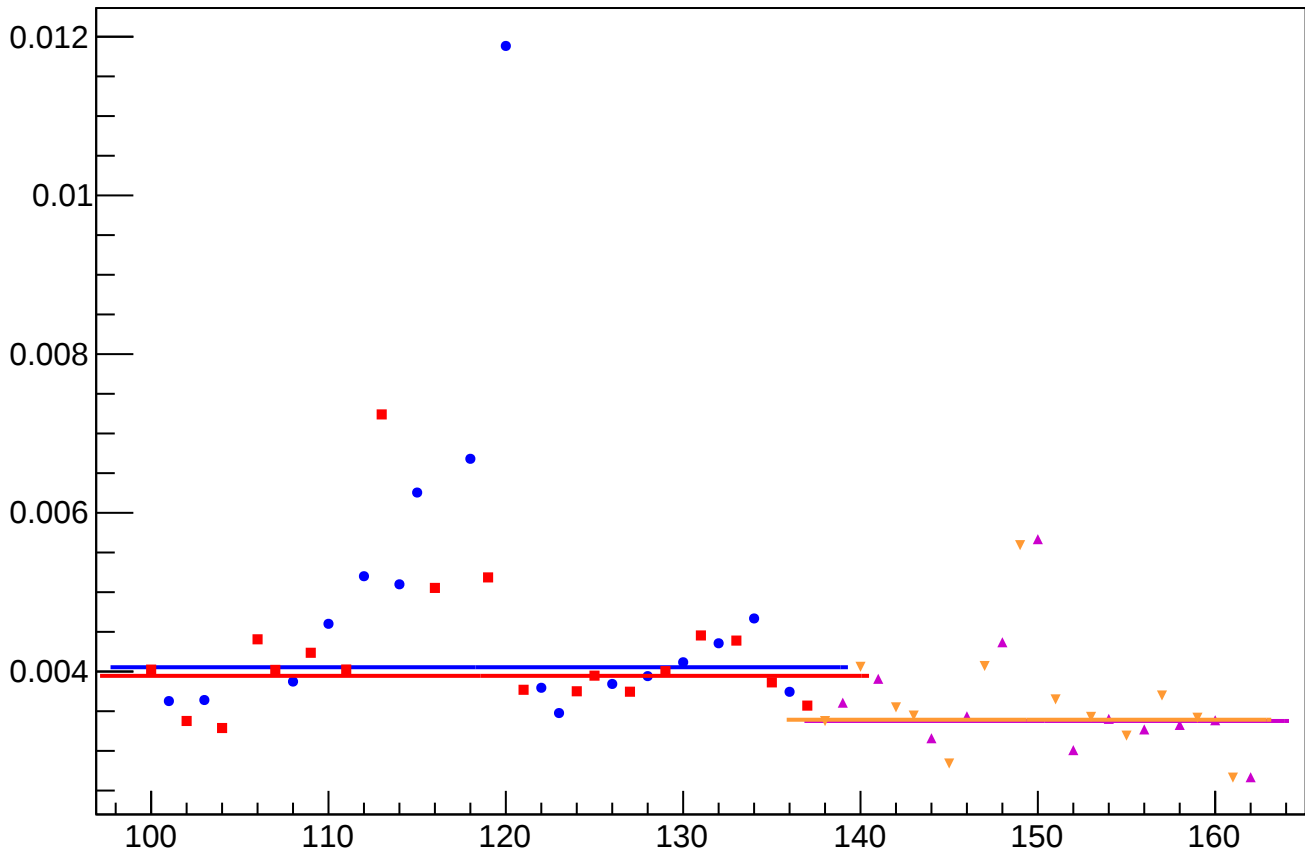
Left In: 0.467+/-0.000

χ^2/NDF : 27075244894.4/11

All: 0.415+/-0.000

χ^2/NDF : 77868472380.5/6

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 468176.5/12

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 482315.4/11

Left: 0.003+/-0.000 χ^2/NDF : 950666.8/24

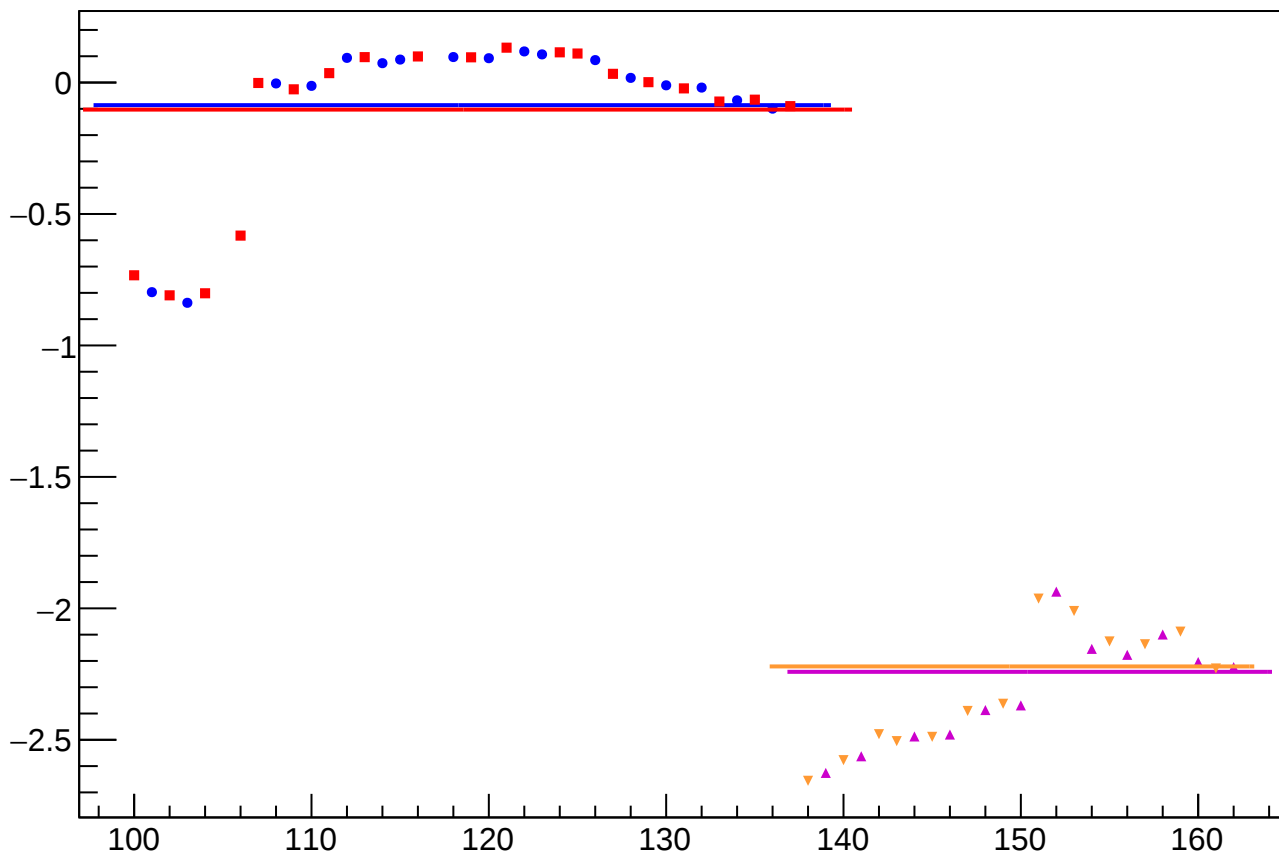
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.004+/-0.000 χ^2/NDF : 1153034.5/28

Out: 0.004+/-0.000 χ^2/NDF : 883891.3/31

All: 0.004+/-0.000 χ^2/NDF : 2036961.8/60

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000

χ^2/NDF : 4989387592.7/16

Left: -2.231+/-0.000

χ^2/NDF : 6090816828.4/24

Left Out: -2.221+/-0.000

χ^2/NDF : 3413389267.6/12

Right: -0.095+/-0.000

χ^2/NDF : 10550892801.3/35

Right Out: -0.103+/-0.000

χ^2/NDF : 5553039516.7/18

In: -1.287+/-0.000

χ^2/NDF : 153829829871.8/28

Out: -1.244+/-0.000

χ^2/NDF : 160541879672.9/31

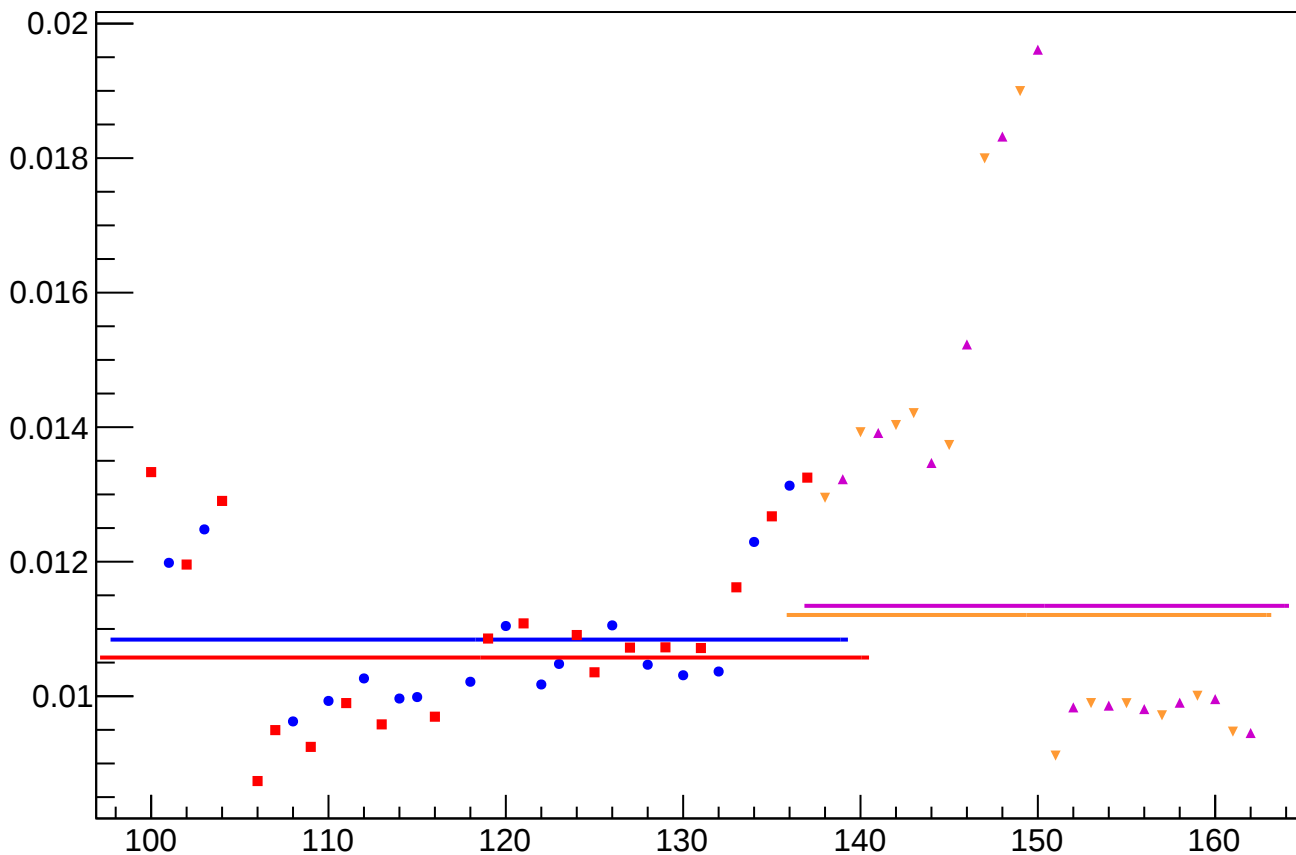
Left In: -2.241+/-0.000

χ^2/NDF : 2662205564.9/11

All: -1.265+/-0.000

χ^2/NDF : 314492594074.8

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 972528.4/12

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF : 1012879.5/11

Left: 0.011+/-0.000 χ^2/NDF : 1986743.5/24

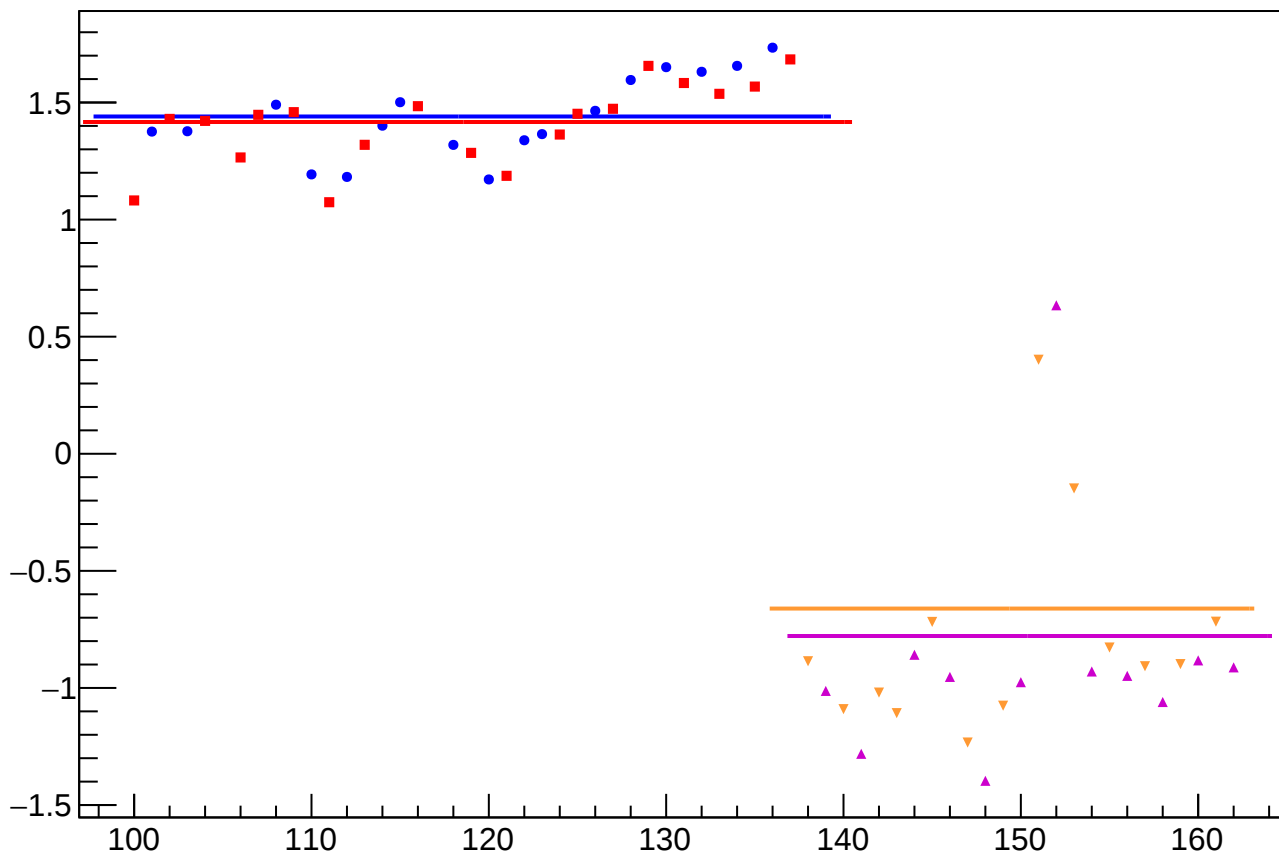
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF : 1153000.0/28

Out: 0.011+/-0.000 χ^2/NDF : 1178541.9/31

All: 0.011+/-0.000 χ^2/NDF : 2337099.7/60

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.661 $\pm$ 0.000 χ^2 /NDF: 29237153797.9/12

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.778 $\pm$ 0.000 χ^2 /NDF: 39121200467.4/11

Left: -0.719 $\pm$ 0.000 χ^2 /NDF: 69218357872.9/24

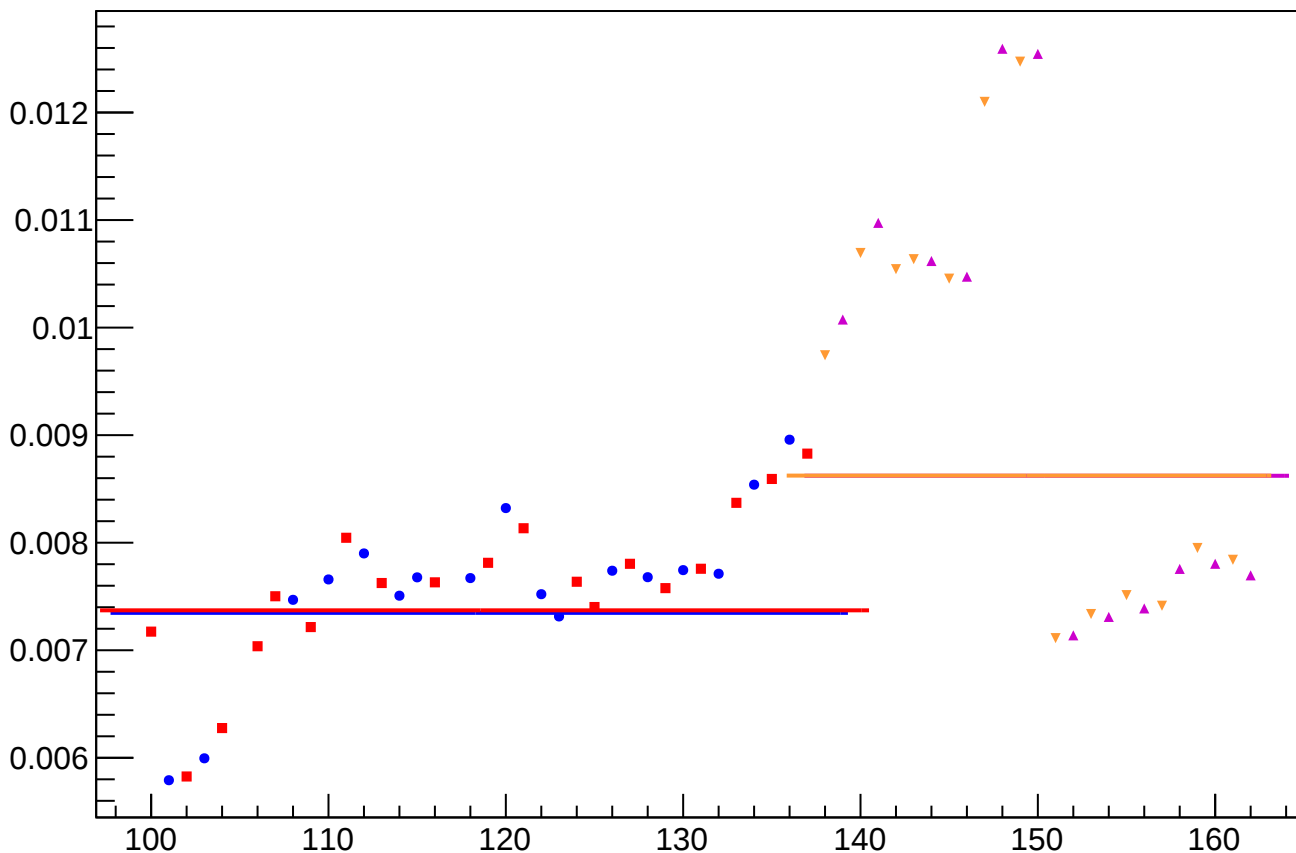
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.318 $\pm$ 0.000 χ^2 /NDF: 346288333948.1/28

Out: 0.392 $\pm$ 0.000 χ^2 /NDF: 306834262480.8/31

All: 0.356 $\pm$ 0.000 χ^2 /NDF: 653802174451.0

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 705110.0/12

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.009+/-0.000 χ^2/NDF : 773442.9/11

Left: 0.009+/-0.000 χ^2/NDF : 1478553.3/24

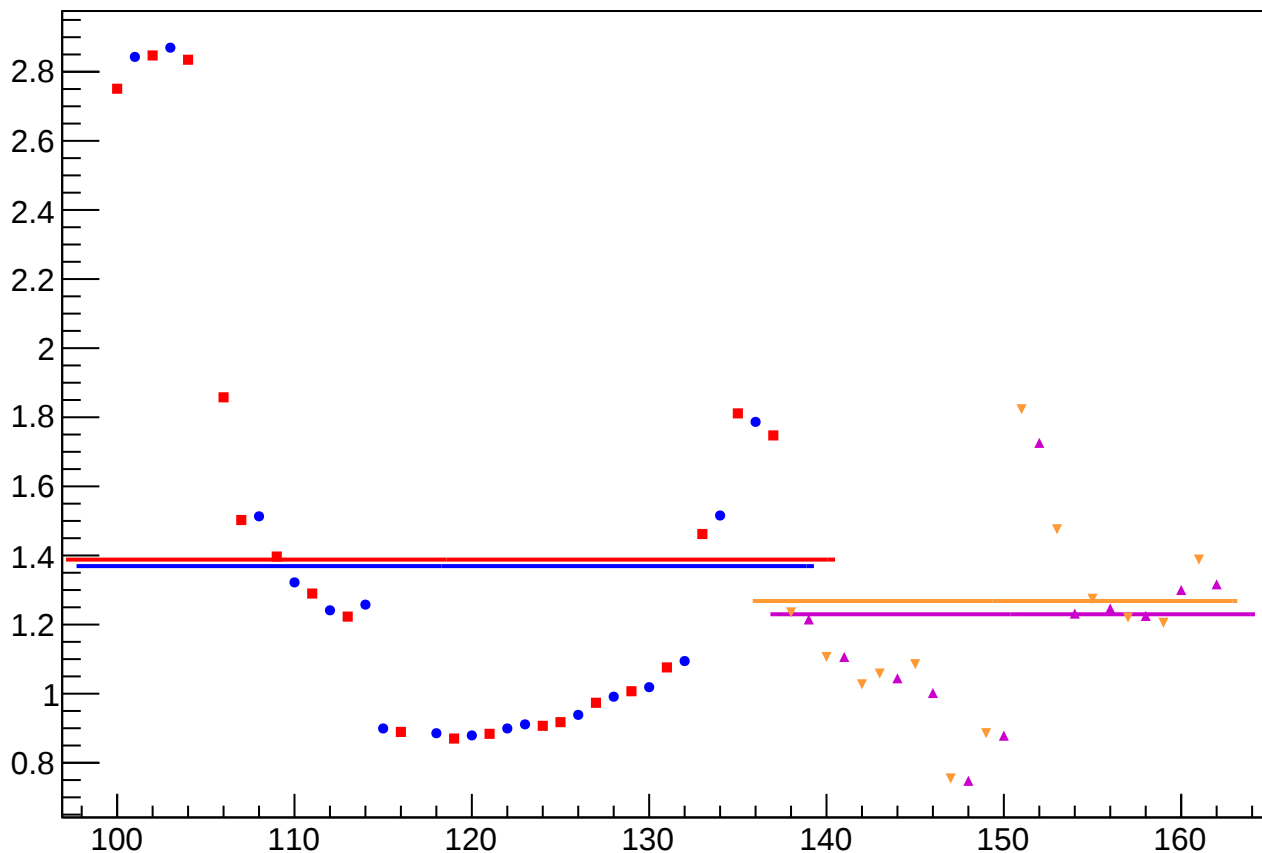
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1202087.8/28

Out: 0.008+/-0.000 χ^2/NDF : 1077688.9/31

All: 0.008+/-0.000 χ^2/NDF : 2279779.5/60

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.268+/-0.000 χ^2/NDF : 8956245476.6/12

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.230+/-0.000 χ^2/NDF : 7004840717.9/11

Left: 1.250+/-0.000 χ^2/NDF : 16060668248.6/24

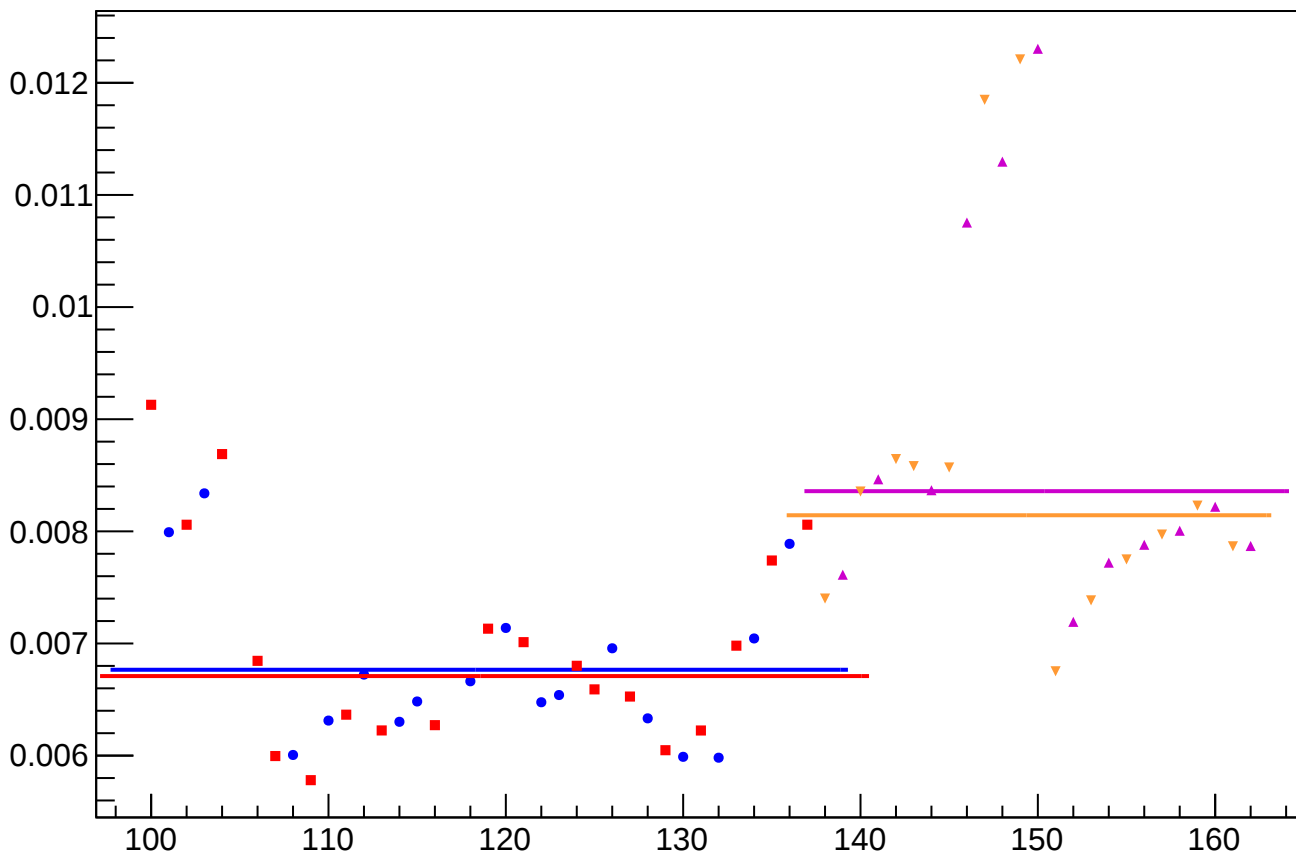
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.303+/-0.000 χ^2/NDF : 62548336096.9/28

Out: 1.332+/-0.000 χ^2/NDF : 59906435327.3/31

All: 1.318+/-0.000 χ^2/NDF : 122574081137.4

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 407462.0/12

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 420282.9/11

Left: 0.008+/-0.000 χ^2/NDF : 833974.0/24

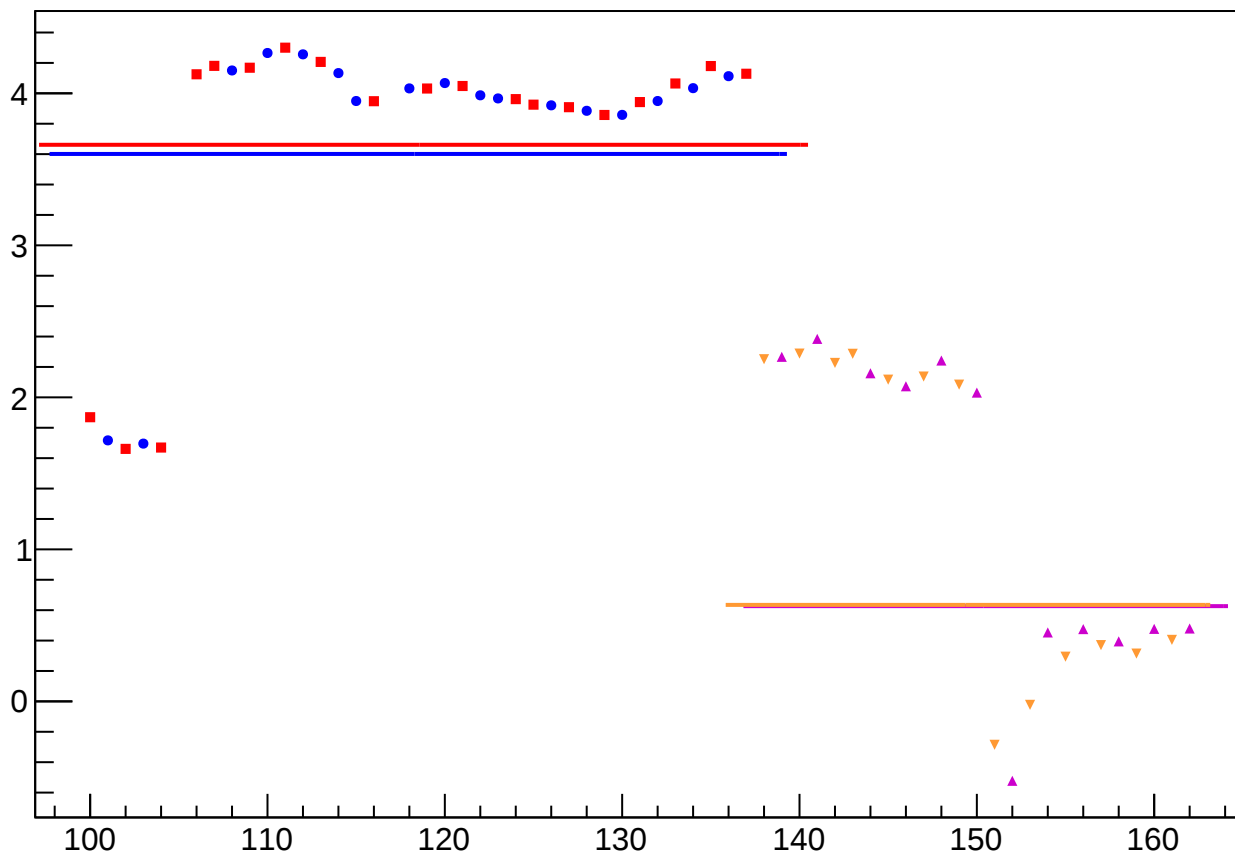
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 929514.8/28

Out: 0.007+/-0.000 χ^2/NDF : 896373.1/31

All: 0.007+/-0.000 χ^2/NDF : 1831554.7/60

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.635+/-0.000 χ^2/NDF : 254503107654.1/12

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.627+/-0.000 χ^2/NDF : 251807426157.4/11

Left: 0.631+/-0.000 χ^2/NDF : 506322263469.1/24

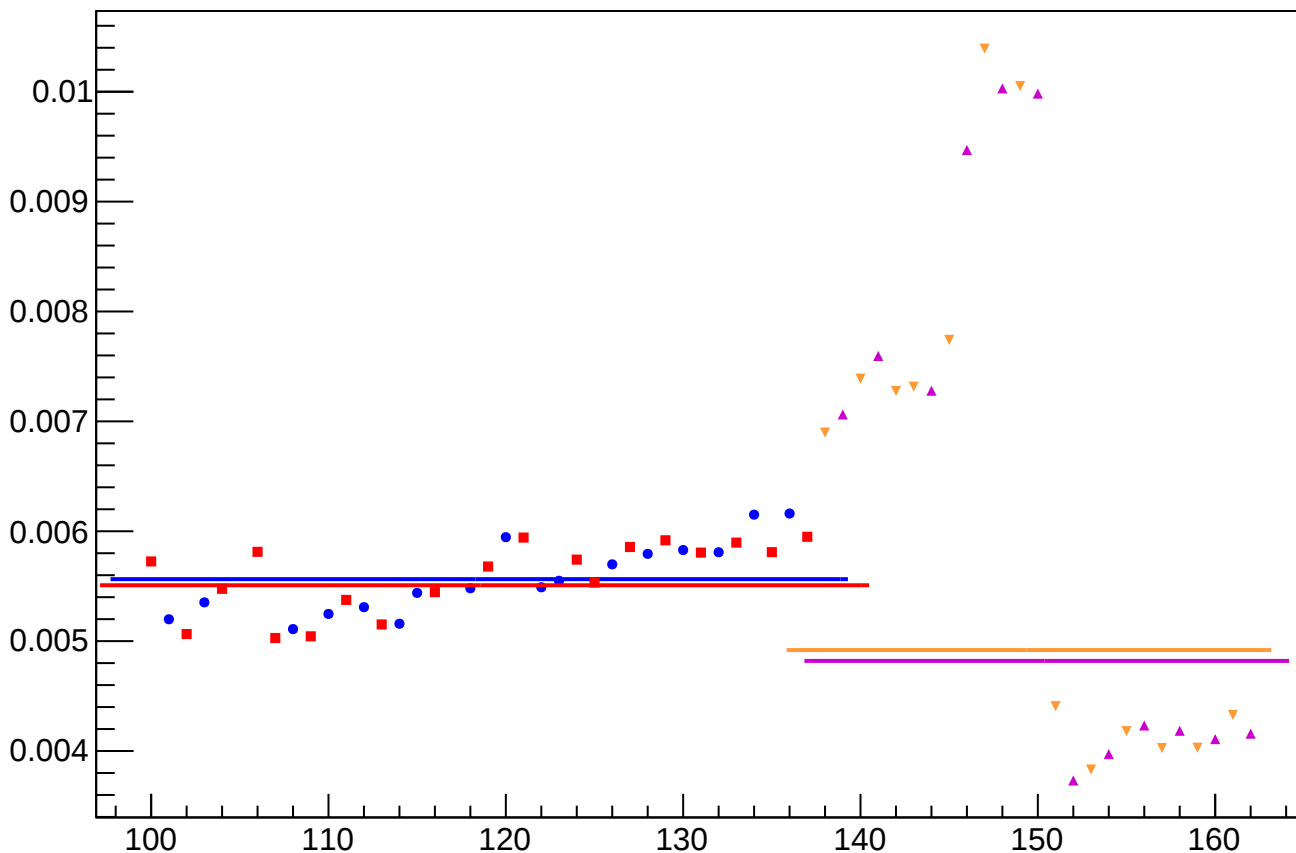
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.751+/-0.000 χ^2/NDF : 1626195472361.6/28

Out: 1.846+/-0.000 χ^2/NDF : 1706415206410.0/31

All: 1.799+/-0.000 χ^2/NDF : 3335232569929.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF :1836875.9/12

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2057990.0/11

Left: 0.005+/-0.000 χ^2/NDF : 3898276.6/24

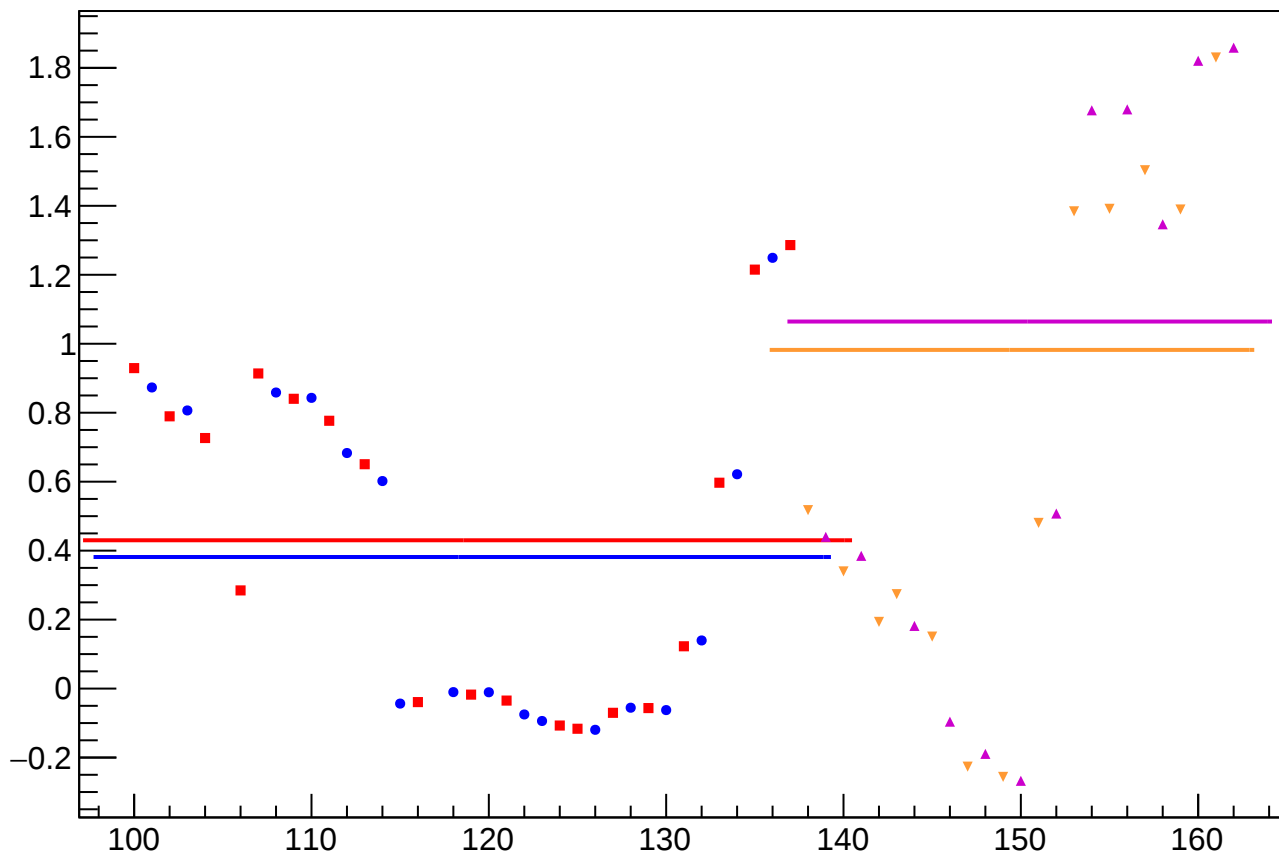
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2254345.5/28

Out: 0.005+/-0.000 χ^2/NDF :1985143.6/31

All: 0.005+/-0.000 χ^2/NDF : 4241138.3/60

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382+/-0.000 χ^2/NDF : 7124759123.1/16

Left Out: 0.982+/-0.000 χ^2/NDF : 26917881989.3/12

Right Out: 0.430+/-0.000 χ^2/NDF : 6676199135.9/18

Left In: 1.064+/-0.000 χ^2/NDF : 36084943323.8/11

Left: 1.024+/-0.000 χ^2/NDF : 63213927318.7/24

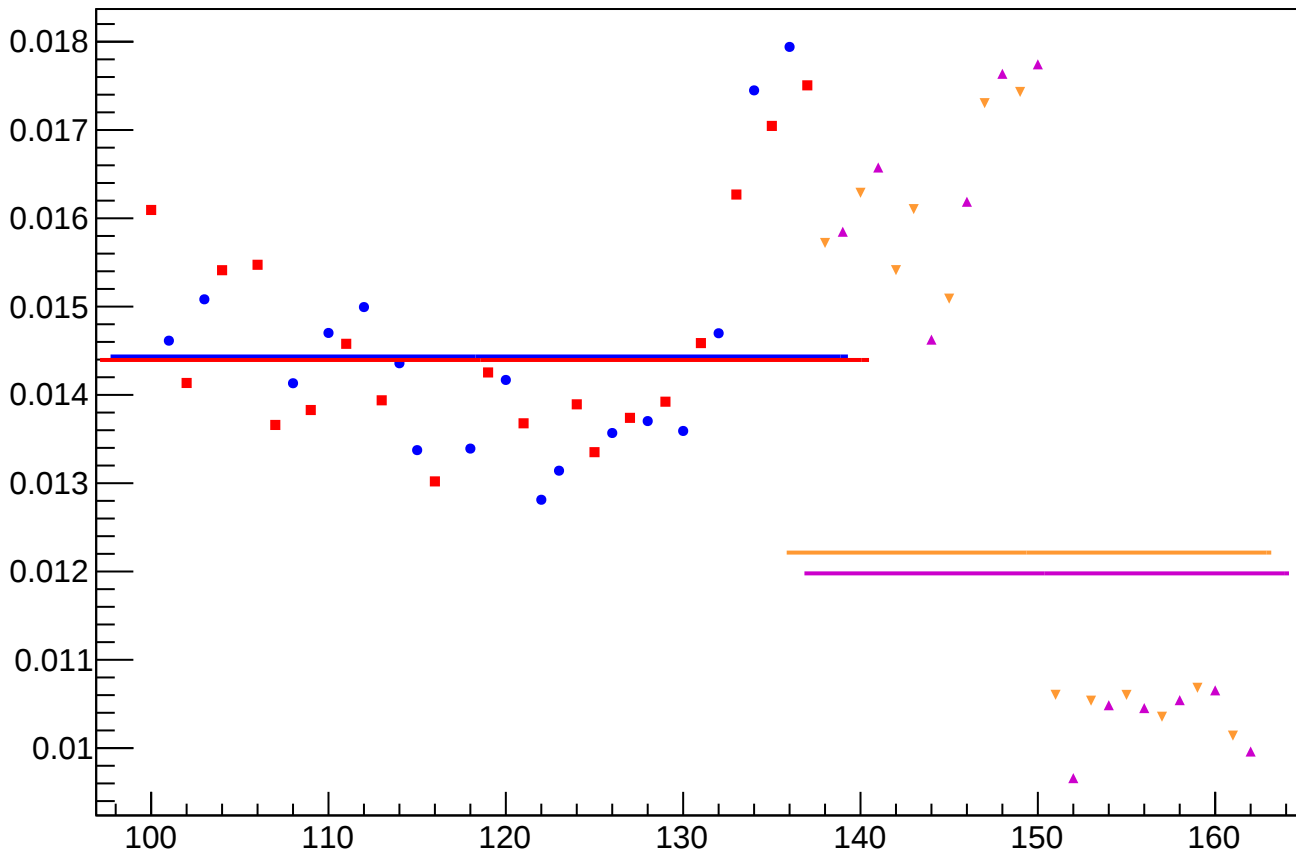
Right: 0.406+/-0.000 χ^2/NDF : 13839390791.2/35

In: 0.836+/-0.000 χ^2/NDF : 53083604643.1/28

Out: 0.787+/-0.000 χ^2/NDF : 40203190671.8/31

All: 0.812+/-0.000 χ^2/NDF : 93401305055.6/6

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.012+/-0.000 χ^2/NDF : 873400.3/12

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 994285.1/11

Left: 0.012+/-0.000 χ^2/NDF : 1871145.5/24

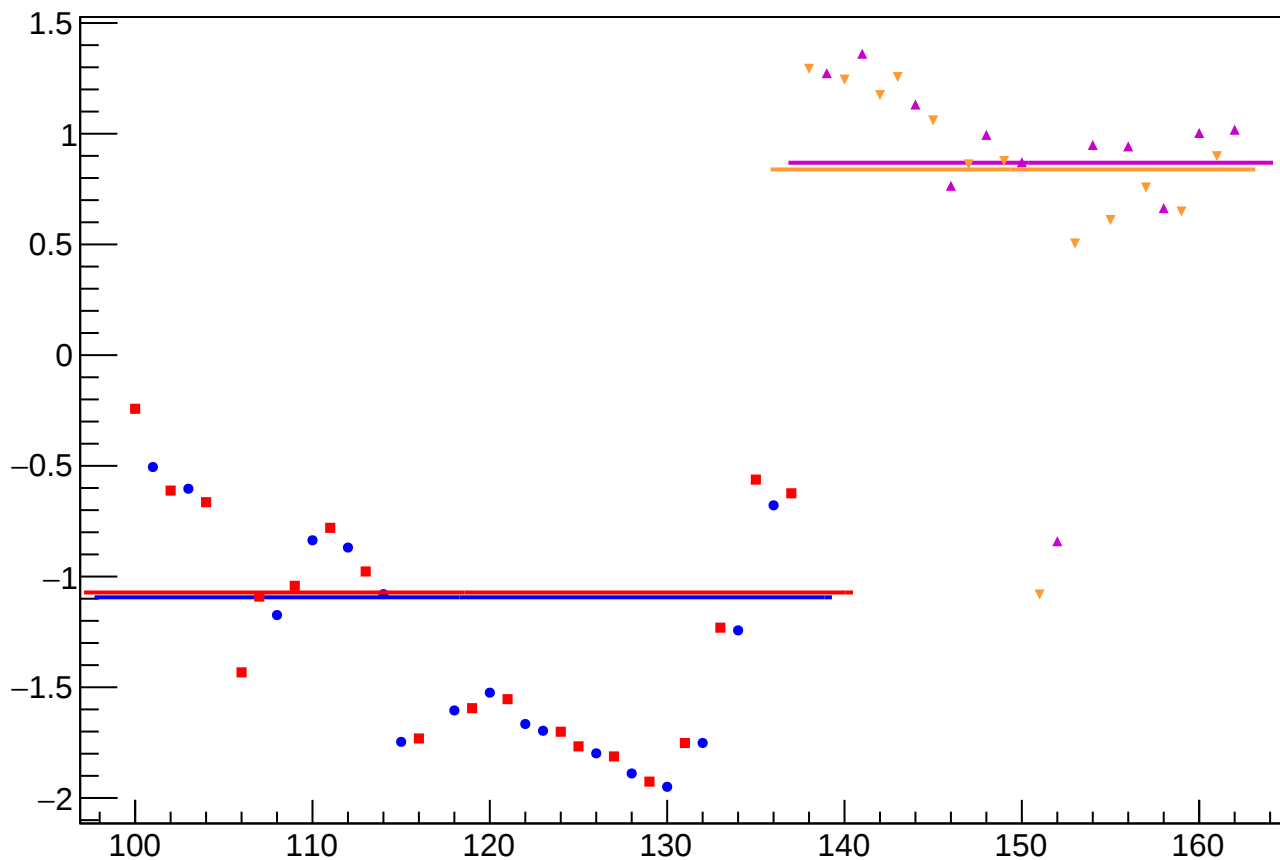
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.013+/-0.000 χ^2/NDF : 1360013.0/28

Out: 0.013+/-0.000 χ^2/NDF : 1154305.4/31

All: 0.013+/-0.000 χ^2/NDF : 2517578.6/60

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.839 ± 0.000 χ^2/NDF : 123286653448.2/12

Right Out: -1.072 ± 0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.869 ± 0.000 χ^2/NDF : 143667785157.2/11

Left: 0.854 ± 0.000 χ^2/NDF : 267242538701.7/24

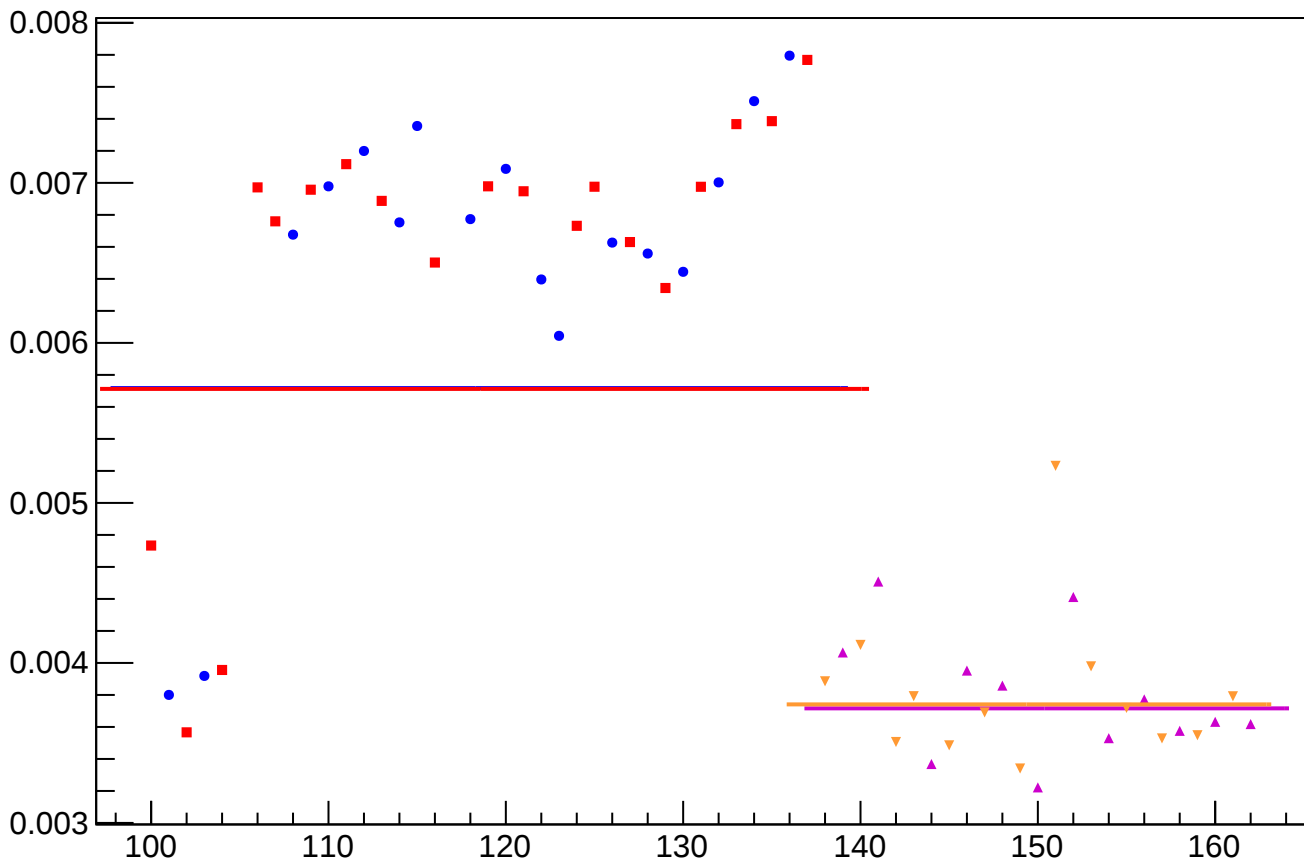
Right: -1.083 ± 0.000 χ^2/NDF : 102900070258.1/35

In: 0.428 ± 0.000 χ^2/NDF : 742172712419.9/28

Out: 0.392 ± 0.000 χ^2/NDF : 698213497918.1/31

All: 0.410 ± 0.000 χ^2/NDF : 1440924073988.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :158434.2/12

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :164020.7/11

Left: 0.004+/-0.000 χ^2/NDF : 322839.0/24

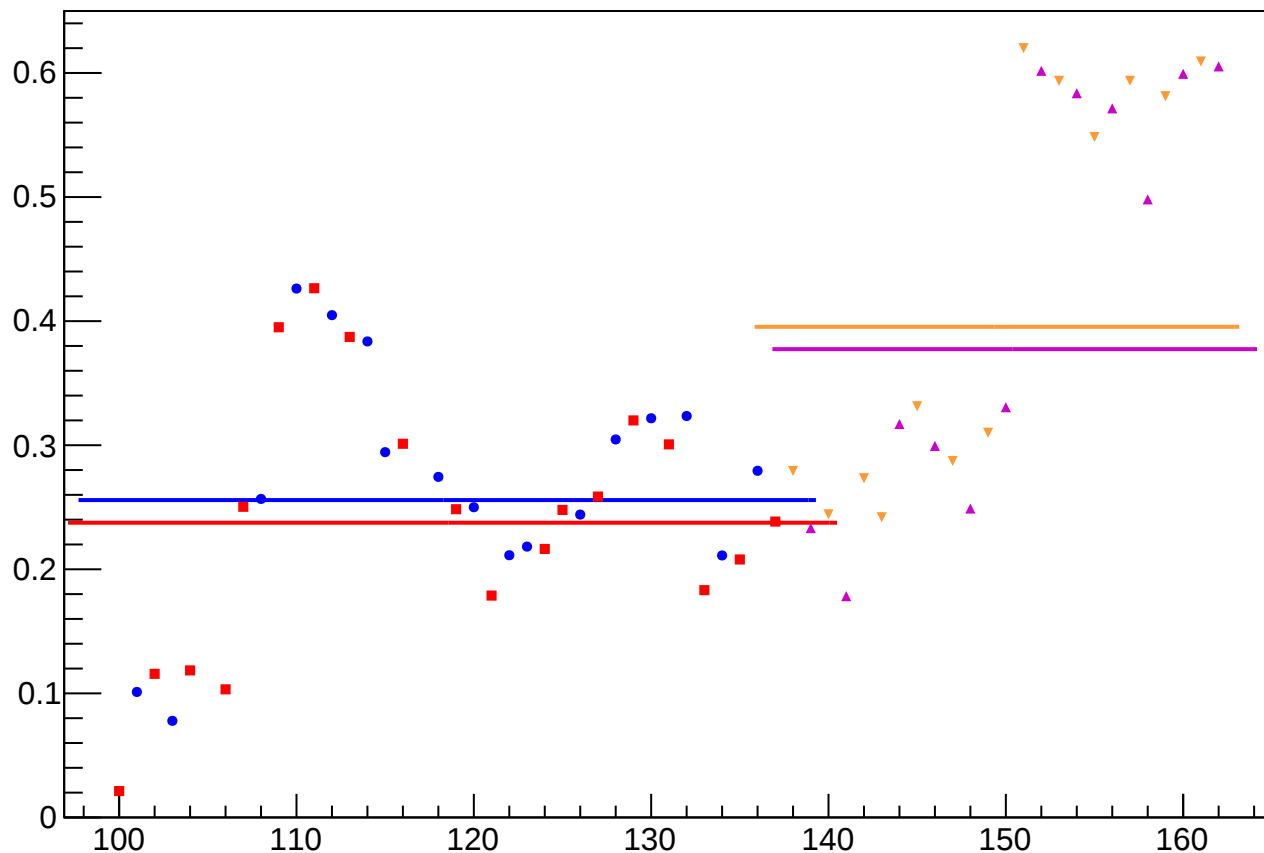
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2130134.3/28

Out: 0.004+/-0.000 χ^2/NDF :2207003.1/31

All: 0.004+/-0.000 χ^2/NDF : 4338213.6/60

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.395+/-0.000 χ^2/NDF : 64743846021.3/12

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.377+/-0.000 χ^2/NDF : 60859630716.5/11

Left: 0.387+/-0.000 χ^2/NDF : 126030926119.7/24

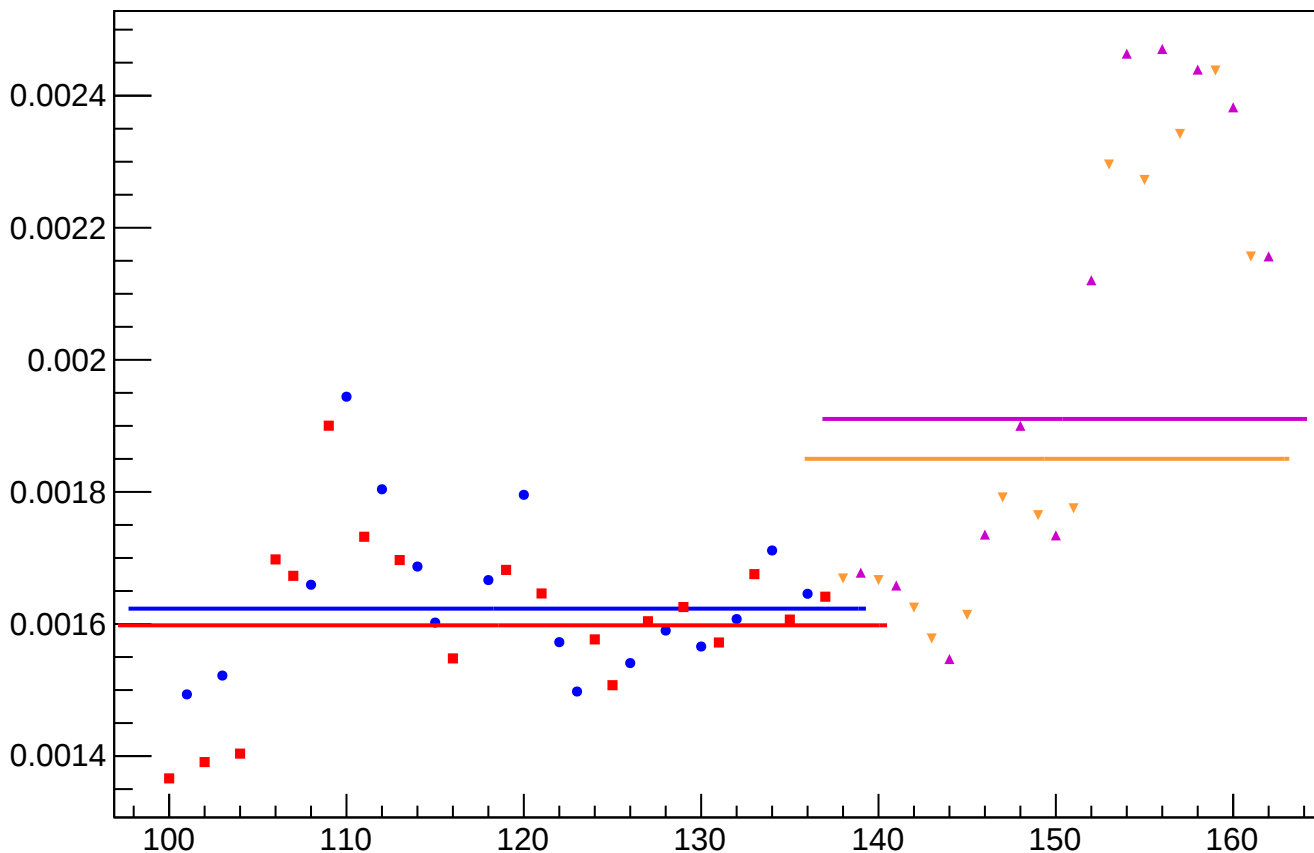
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.318+/-0.000 χ^2/NDF : 100626144536.4/28

Out: 0.317+/-0.000 χ^2/NDF : 124953465950.1/31

All: 0.317+/-0.000 χ^2/NDF : 225580800950.2

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF : 440924.6/12

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 528402.5/11

Left: 0.002+/-0.000 χ^2/NDF : 978942.0/24

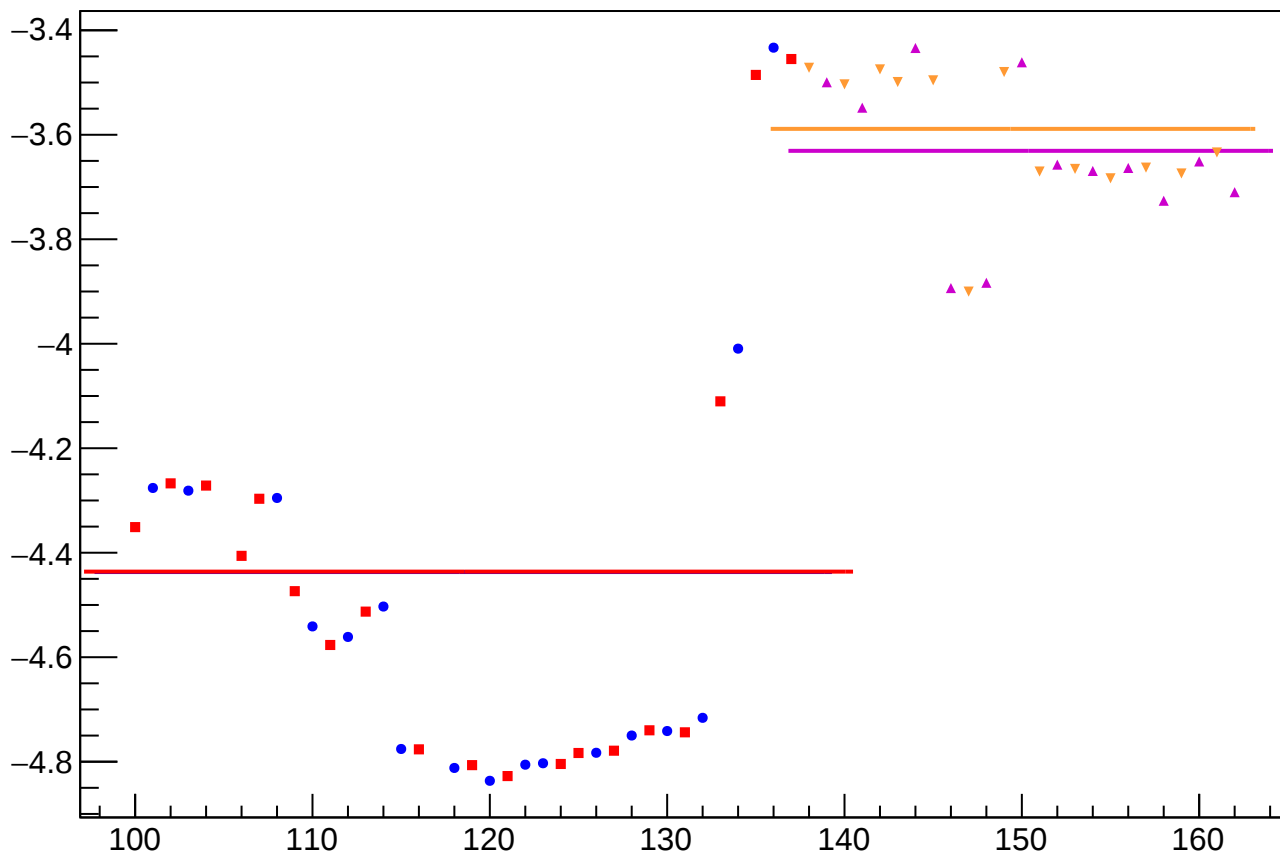
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 786091.3/28

Out: 0.002+/-0.000 χ^2/NDF : 705803.1/31

All: 0.002+/-0.000 χ^2/NDF : 1502215.9/60

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437+/-0.000

χ^2/NDF : 392812415429.0/16

Left: -3.609+/-0.000

χ^2/NDF : 74056599597.5/24

Left Out: -3.589+/-0.000

χ^2/NDF : 29821543299.6/12

Right: -4.437+/-0.000

χ^2/NDF : 717996921060.6/35

Right Out: -4.436+/-0.000

χ^2/NDF : 325183860699.4/18

In: -4.033+/-0.000

χ^2/NDF : 1085818731048.4/28

Out: -4.011+/-0.000

χ^2/NDF : 1120122240180.5/31

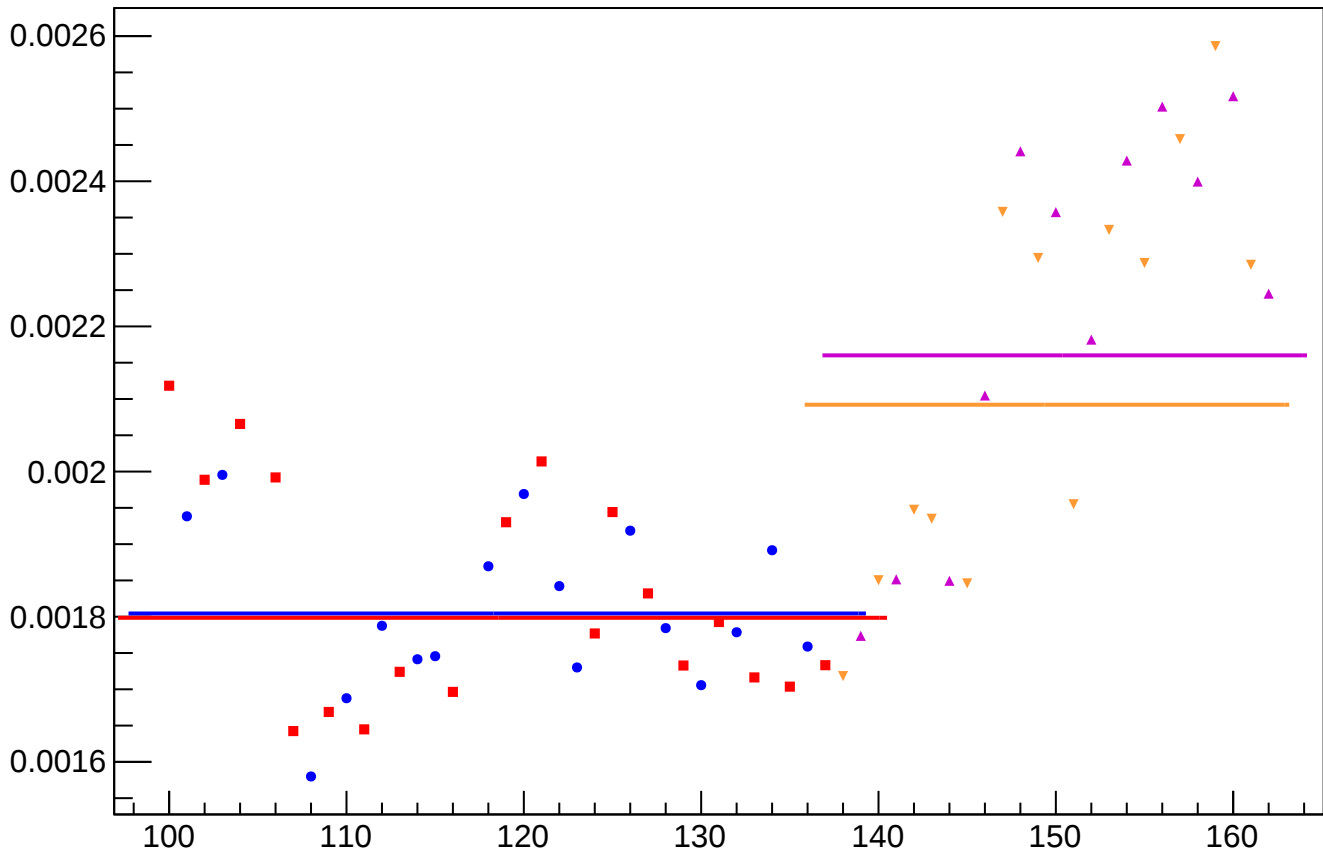
Left In: -3.631+/-0.000

χ^2/NDF : 42405410344.5/11

All: -4.022+/-0.000

χ^2/NDF : 2206942926496

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :302710.1/12

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :289440.6/11

Left: 0.002+/-0.000 χ^2/NDF : 601725.8/24

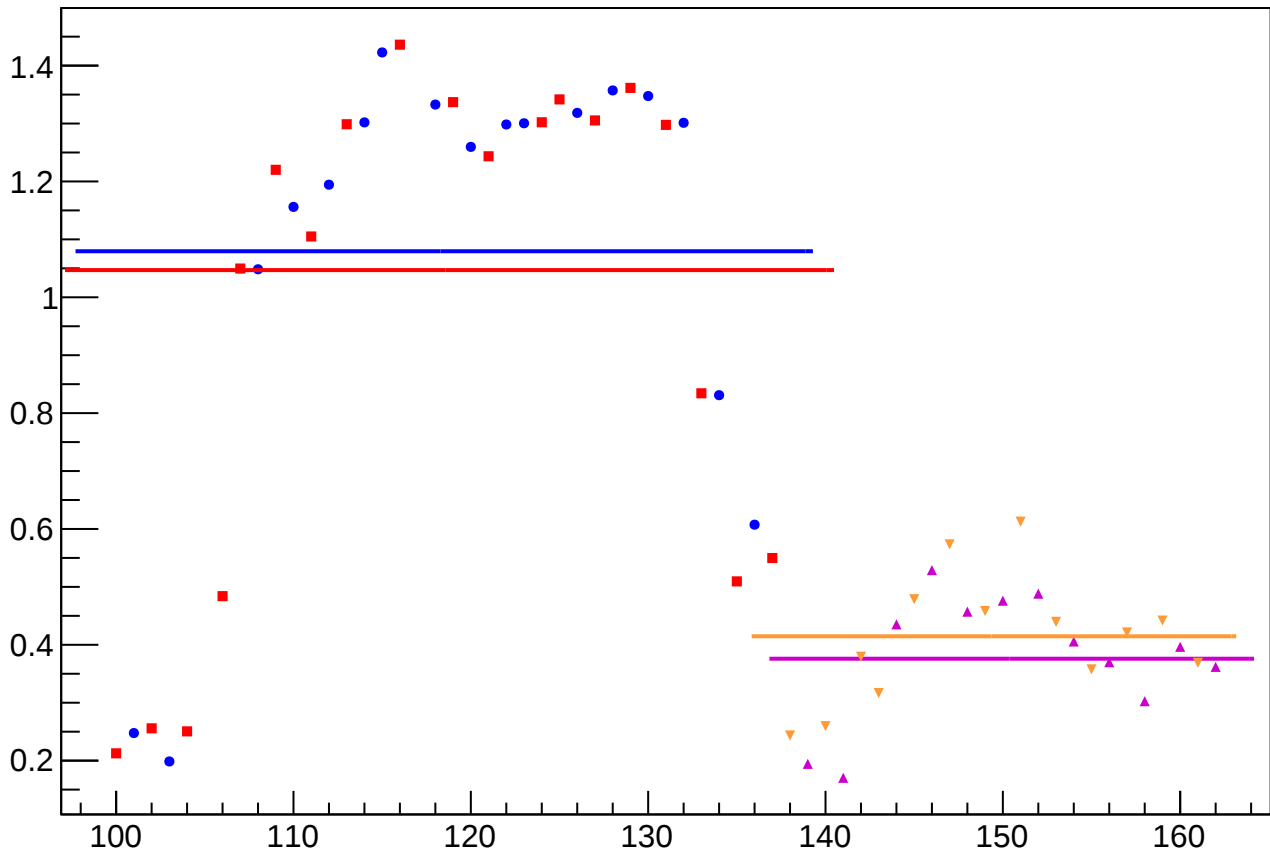
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :591781.0/28

Out: 0.002+/-0.000 χ^2/NDF :567342.1/31

All: 0.002+/-0.000 χ^2/NDF : 1164722.4/60

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.415 $\pm$ 0.000 χ^2 /NDF: 1190820918.5/12

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.376 $\pm$ 0.000 χ^2 /NDF: 1035201413.2/11

Left: 0.396 $\pm$ 0.000 χ^2 /NDF: 2301963535.2/24

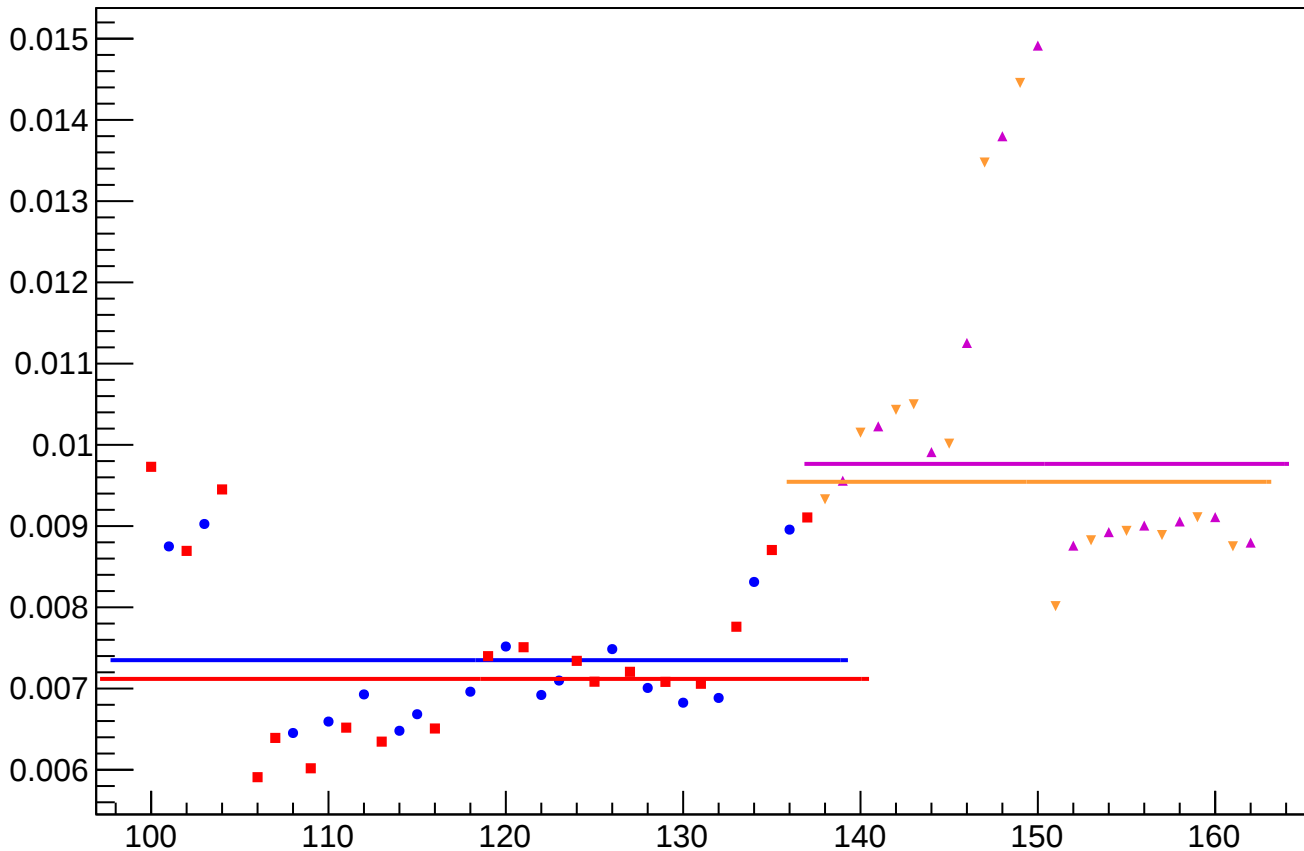
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.765 $\pm$ 0.000 χ^2 /NDF: 45623969694.0/28

Out: 0.775 $\pm$ 0.000 χ^2 /NDF: 44562414882.3/31

All: 0.770 $\pm$ 0.000 χ^2 /NDF: 90197150426.1/6

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.010+/-0.000 χ^2/NDF : 444356.9/12

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.010+/-0.000 χ^2/NDF : 459036.7/11

Left: 0.010+/-0.000 χ^2/NDF : 908322.5/24

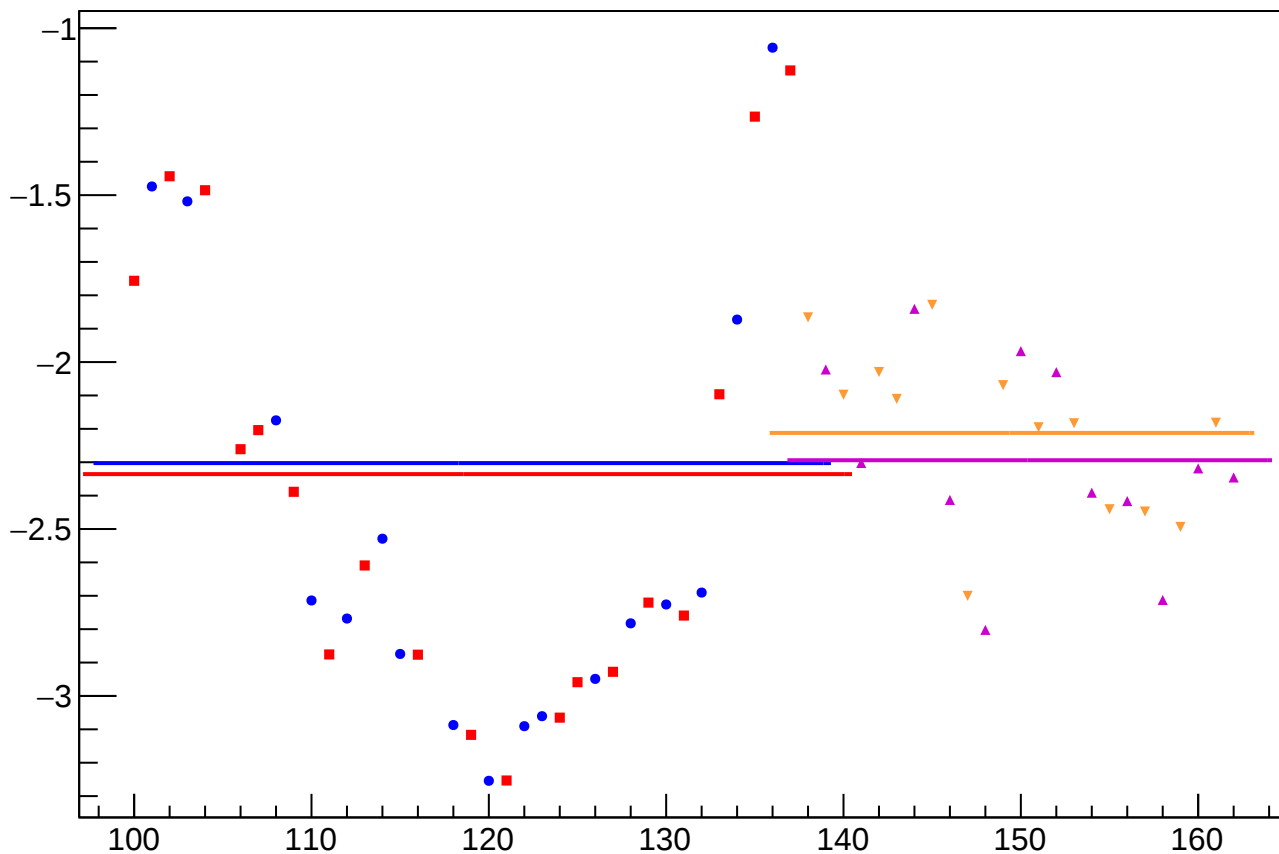
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1278109.4/28

Out: 0.008+/-0.000 χ^2/NDF : 1401222.8/31

All: 0.008+/-0.000 χ^2/NDF : 2695667.2/60

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.212+/-0.000 χ^2/NDF : 6842222777.2/12

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.294+/-0.000 χ^2/NDF : 8408886109.5/11

Left: -2.252+/-0.000 χ^2/NDF : 15670604583.4/24

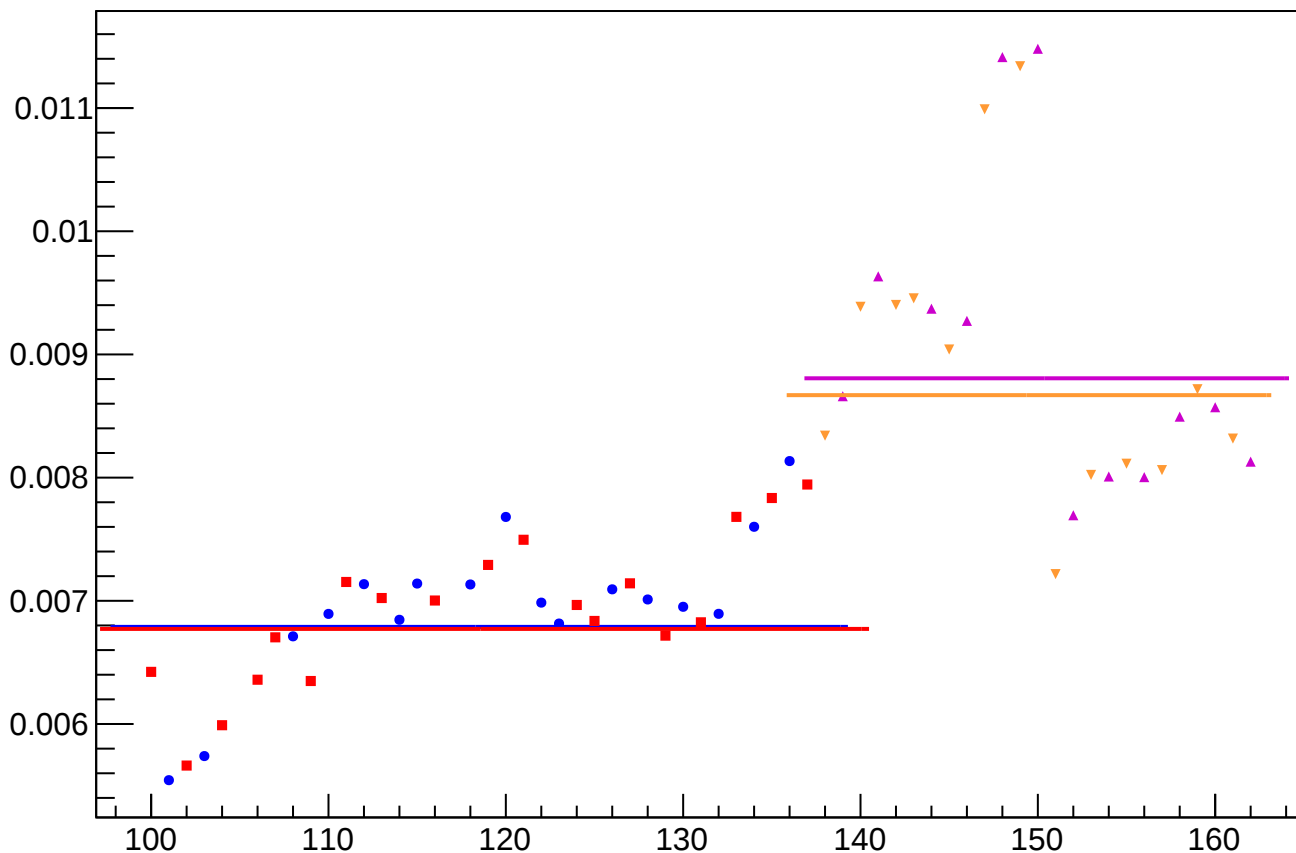
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.299+/-0.000 χ^2/NDF : 82169694882.8/28

Out: -2.280+/-0.000 χ^2/NDF : 72403984144.8/31

All: -2.289+/-0.000 χ^2/NDF : 154623058870.8

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 280726.5/12

Right Out: 0.007 $\pm$ 0.000 χ^2/NDF : 123244.0/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 281385.8/11

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 564456.8/24

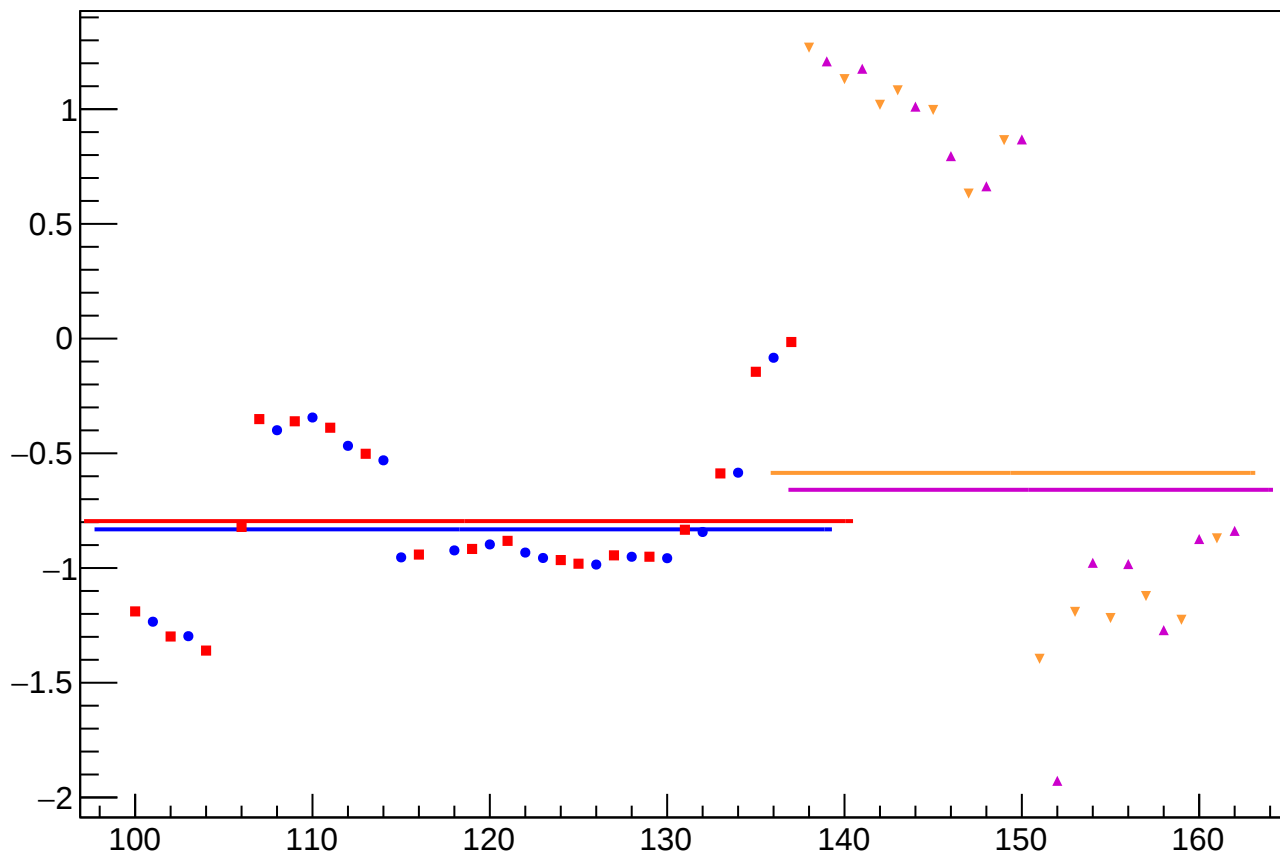
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 288483.5/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 987193.1/28

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 906398.7/31

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1895620.4/60

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.623+/-0.000

χ^2/NDF : 226864593291.8/24

Left Out: -0.585+/-0.000

χ^2/NDF : 108970830879.5/12

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.714+/-0.000

χ^2/NDF : 125407834524.5/28

Out: -0.657+/-0.000

χ^2/NDF : 118527050928.2/31

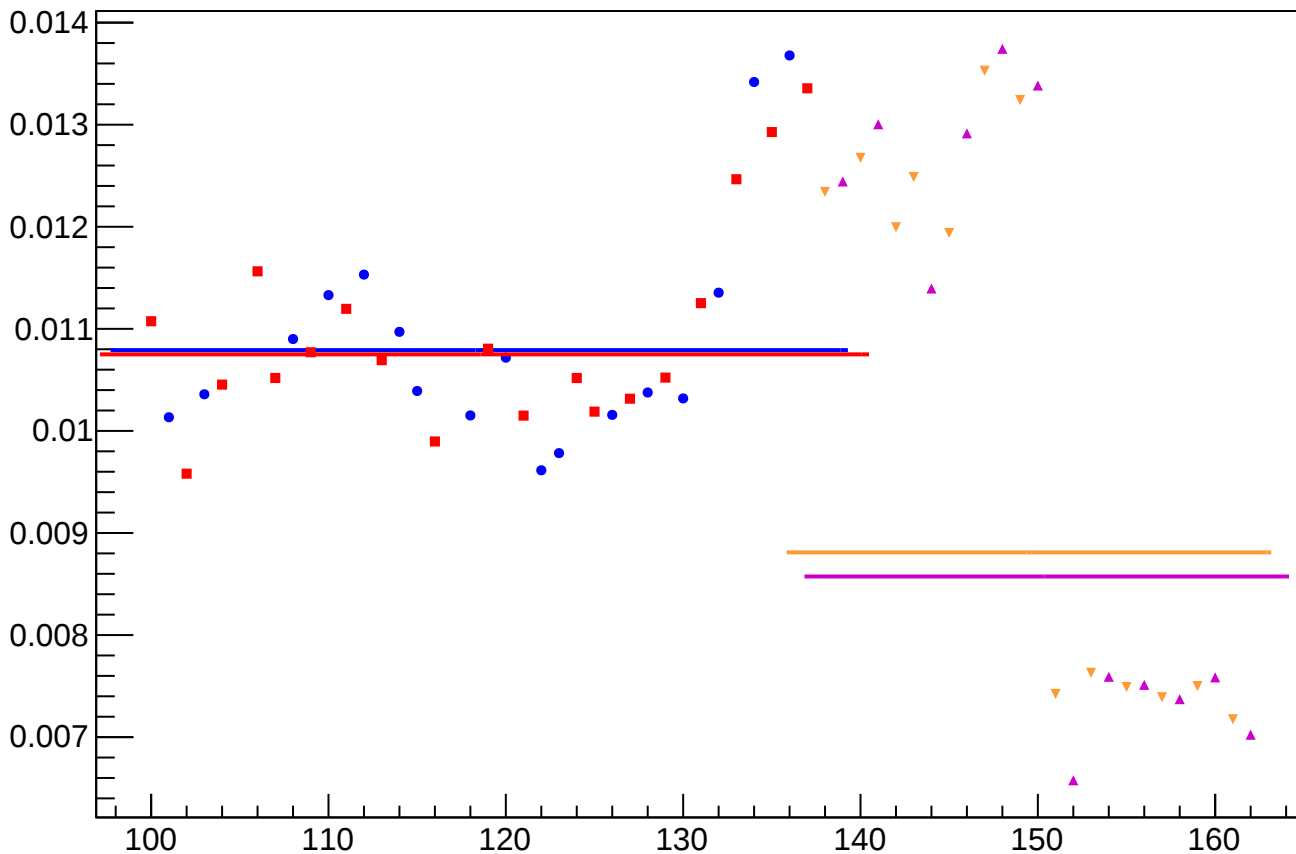
Left In: -0.659+/-0.000

χ^2/NDF : 117575016940.6/11

All: -0.686+/-0.000

χ^2/NDF : 244220022241.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.009+/-0.000 χ^2/NDF :1223707.2/12

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.009+/-0.000 χ^2/NDF :1391390.6/11

Left: 0.009+/-0.000 χ^2/NDF : 2621651.5/24

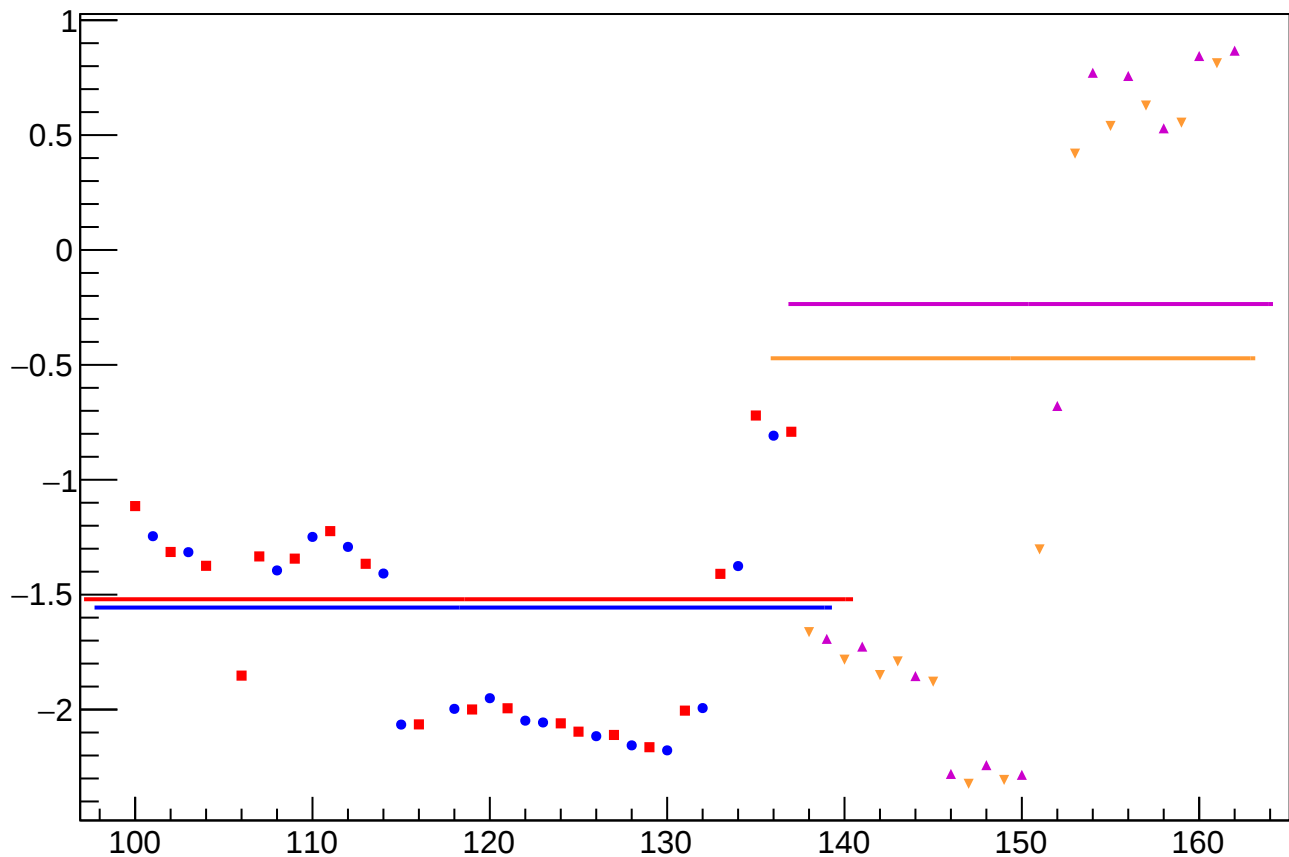
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :1894570.0/28

Out: 0.009+/-0.000 χ^2/NDF :1609417.8/31

All: 0.009+/-0.000 χ^2/NDF : 3510325.2/60

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -0.471+/-0.000 χ^2/NDF : 1554873331983.0/12

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: -0.235+/-0.000 χ^2/NDF : 1649573976634.2/11

Left: -0.353+/-0.000 χ^2/NDF : 3233602896043.5/24

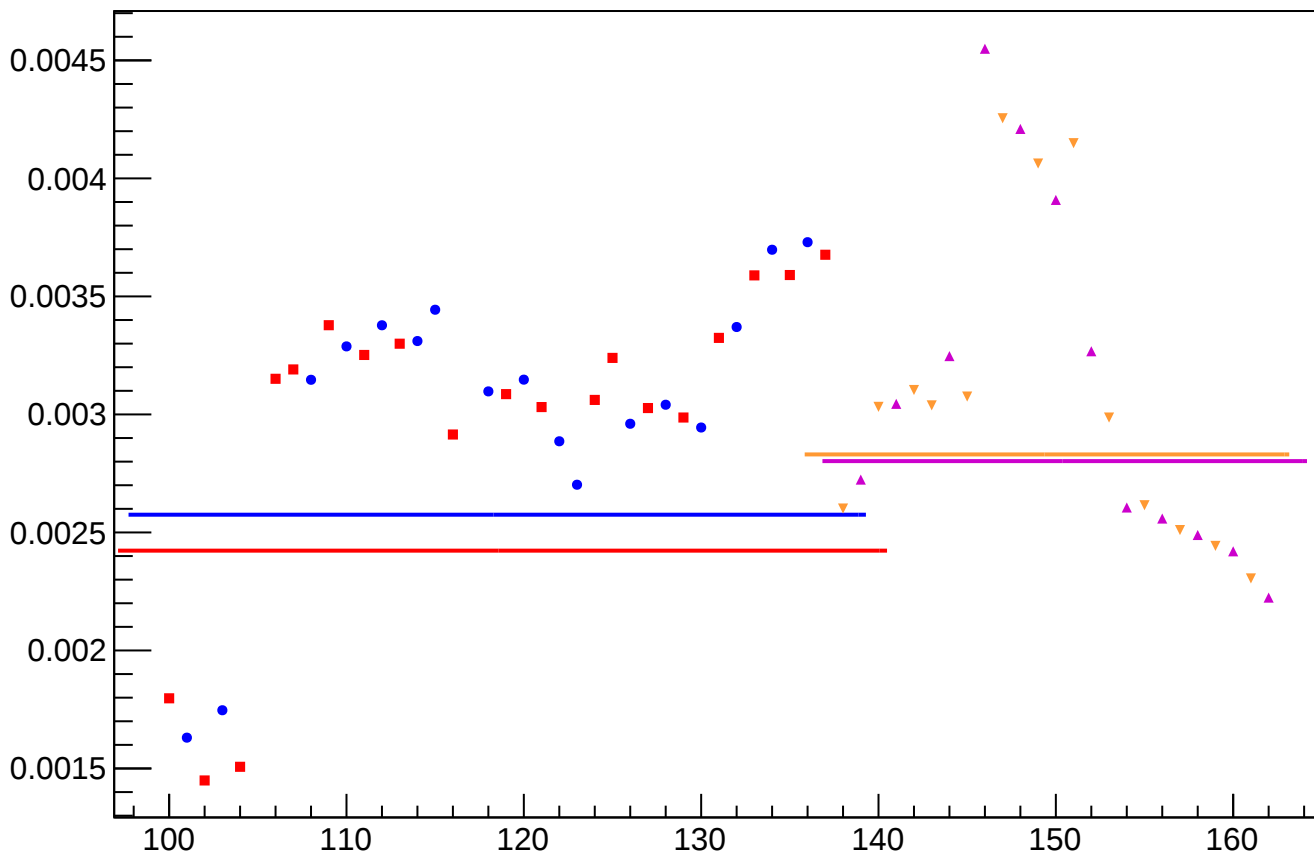
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.827+/-0.000 χ^2/NDF : 2626848301071.9/28

Out: -0.976+/-0.000 χ^2/NDF : 2244169632209.7/31

All: -0.903+/-0.000 χ^2/NDF : 4892858082613

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.003+/-0.000 χ^2/NDF : 554302.4/12

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 656800.4/11

Left: 0.003+/-0.000 χ^2/NDF : 1211942.4/24

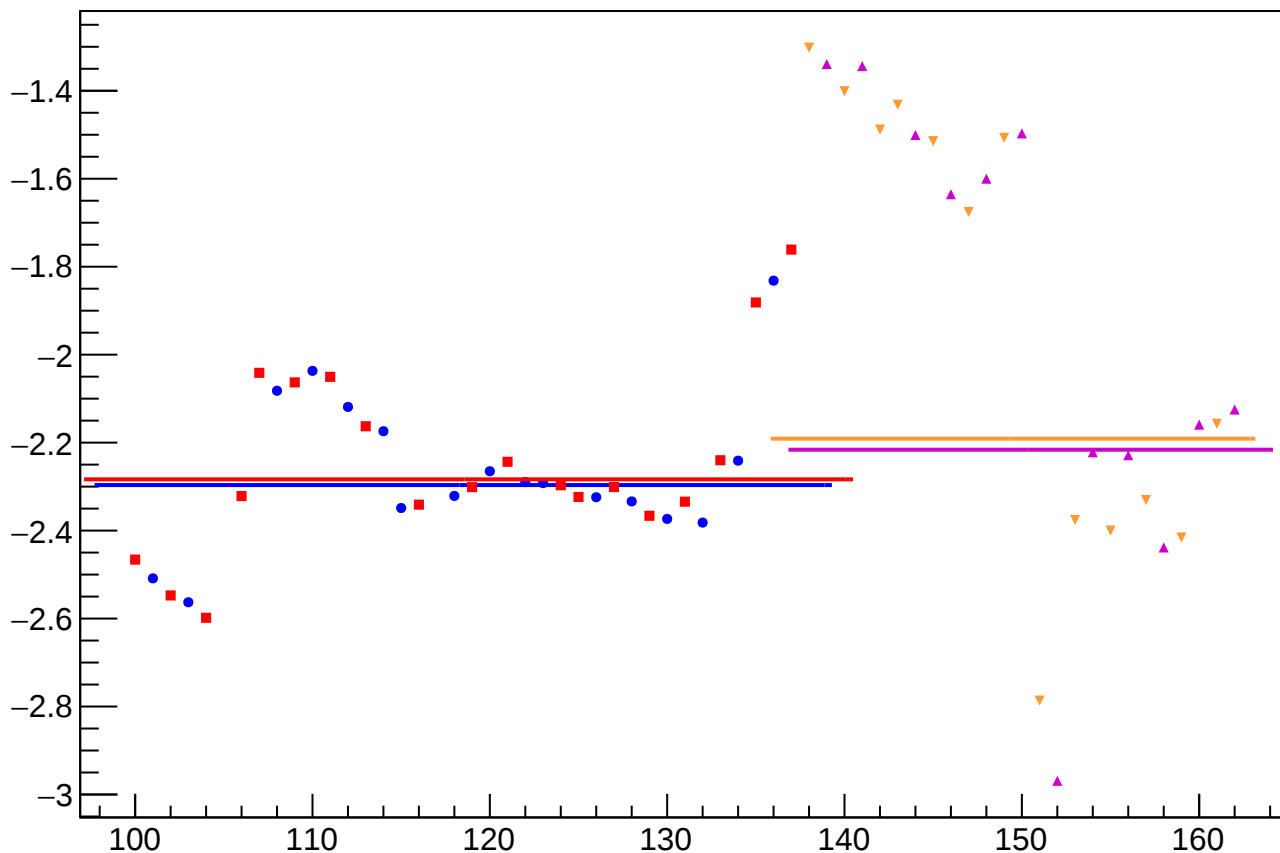
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF : 1719229.1/28

Out: 0.003+/-0.000 χ^2/NDF : 2210904.6/31

All: 0.003+/-0.000 χ^2/NDF : 3938717.0/60

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.191+/-0.000 χ^2/NDF : 50948193180.3/12

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.216+/-0.000 χ^2/NDF : 66125968751.2/11

Left: -2.204+/-0.000 χ^2/NDF : 117166877109.1/24

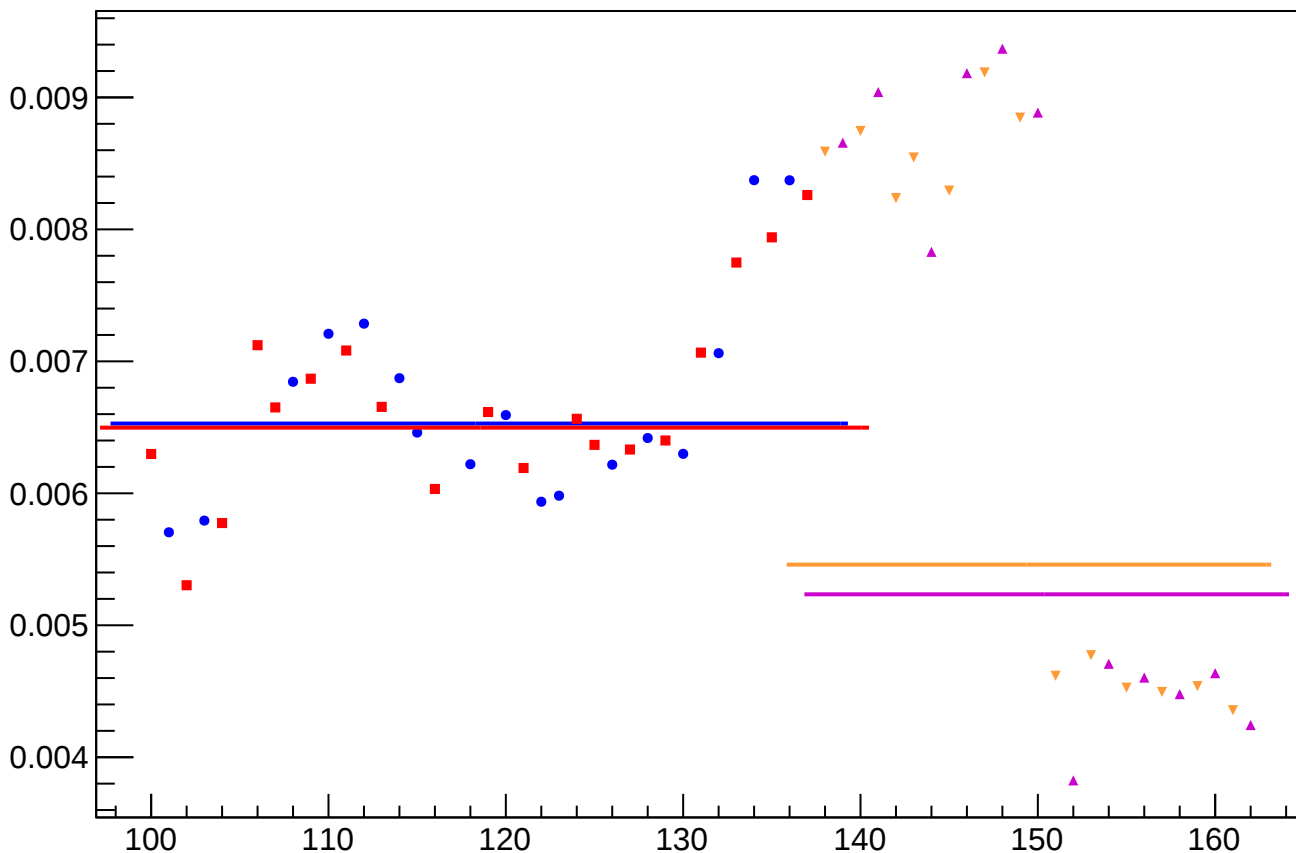
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.243+/-0.000 χ^2/NDF : 72563936300.1/28

Out: -2.224+/-0.000 χ^2/NDF : 58375213438.1/31

All: -2.234+/-0.000 χ^2/NDF : 131016122630.2

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF :1684788.3/12

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF :1940989.2/11

Left: 0.005+/-0.000 χ^2/NDF : 3640730.4/24

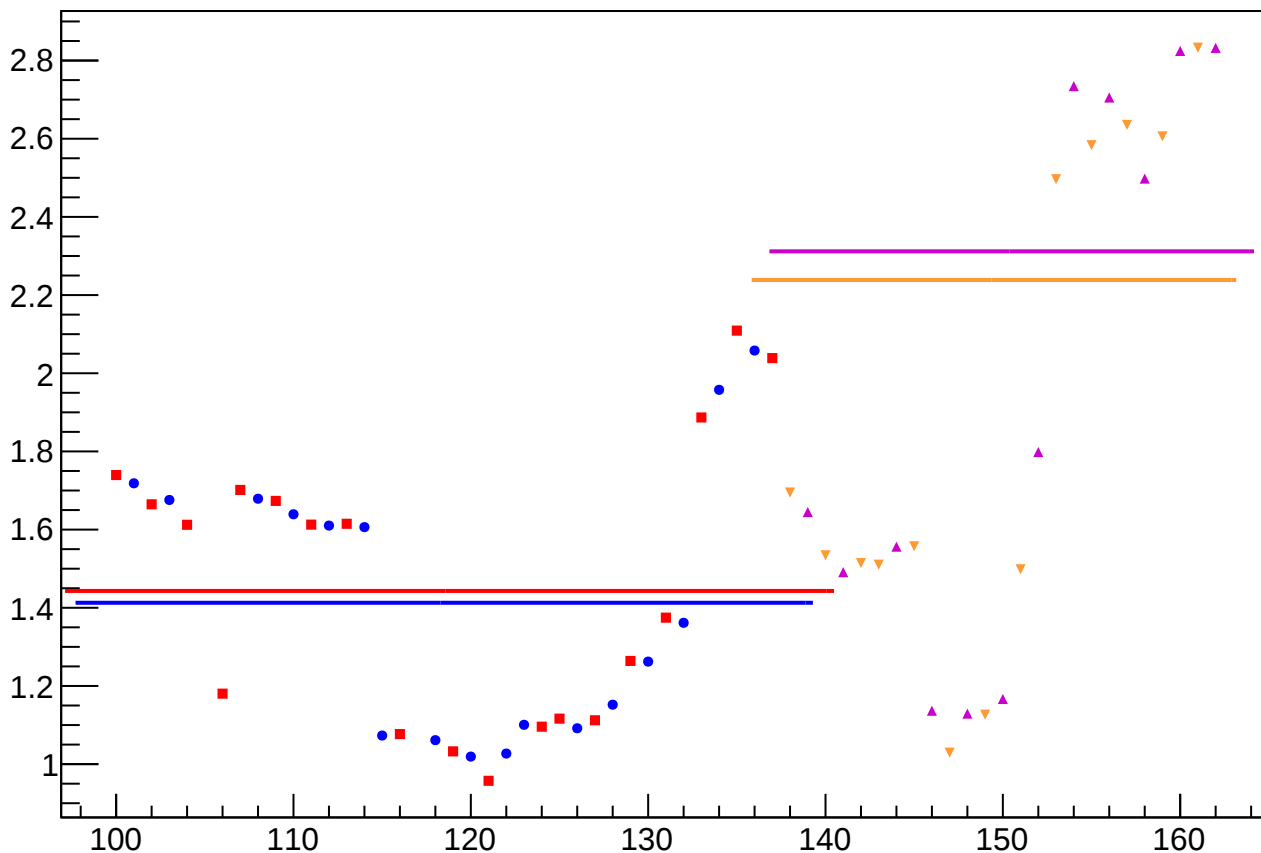
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.006+/-0.000 χ^2/NDF :2457000.2/28

Out: 0.006+/-0.000 χ^2/NDF :2070621.4/31

All: 0.006+/-0.000 χ^2/NDF : 4540585.7/60

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.239+/-0.000 χ^2/NDF : 174124283011.9/12

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.312+/-0.000 χ^2/NDF : 190953609907.2/11

Left: 2.276+/-0.000 χ^2/NDF : 366593518417.0/24

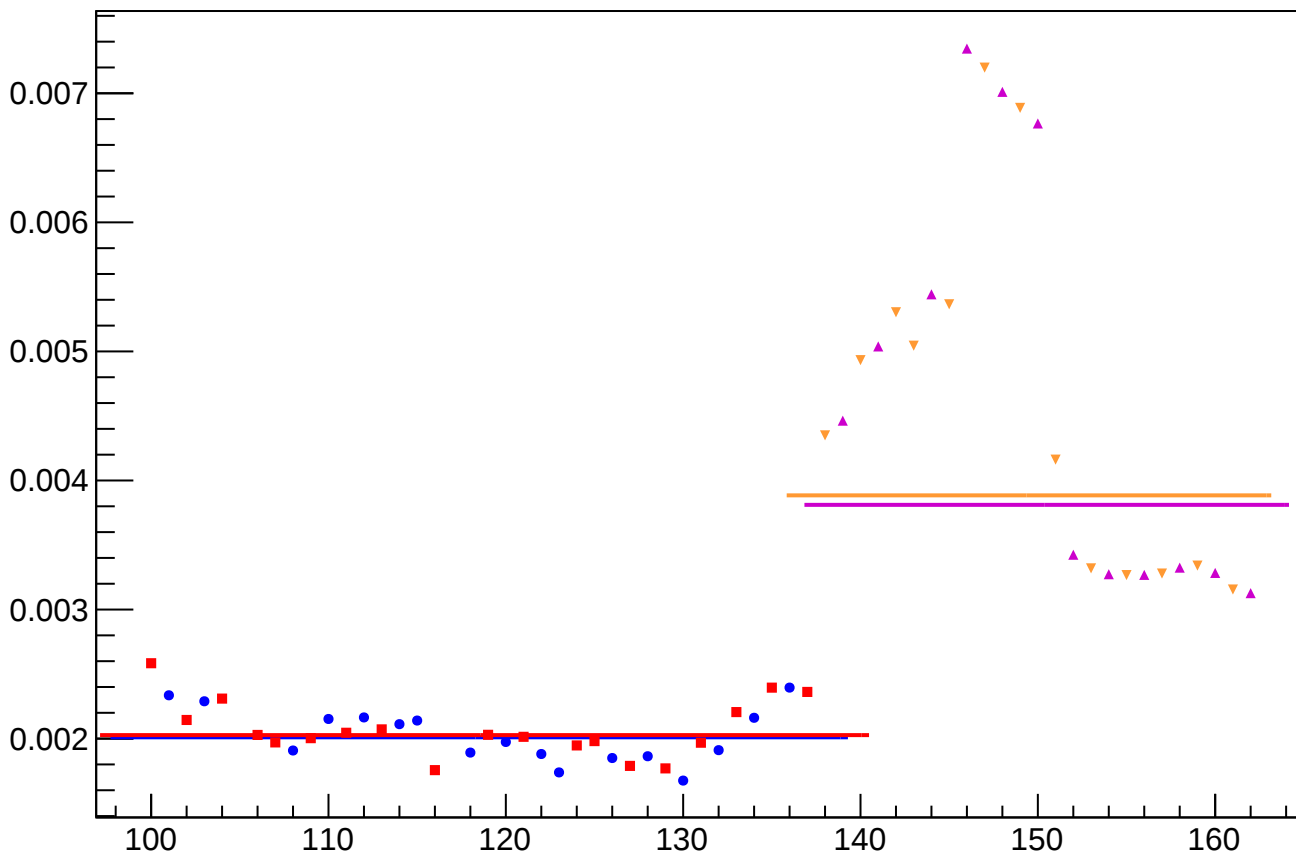
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.657+/-0.000 χ^2/NDF : 698957521785.5/28

Out: 1.651+/-0.000 χ^2/NDF : 608185022195.1/31

All: 1.654+/-0.000 χ^2/NDF : 1307185600486.0

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :1091239.1/12

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1328163.9/11

Left: 0.004+/-0.000 χ^2/NDF : 2422455.3/24

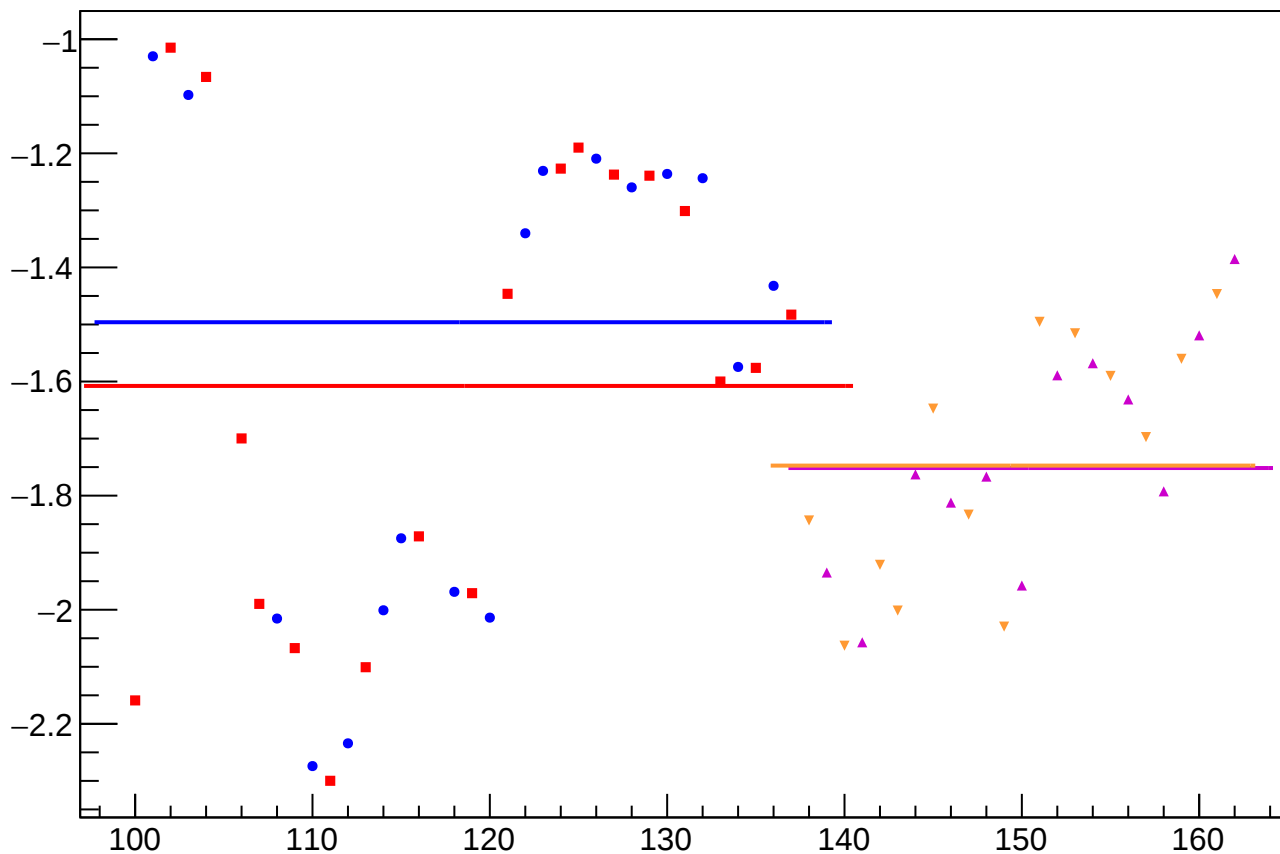
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.002+/-0.000 χ^2/NDF :4172943.9/28

Out: 0.003+/-0.000 χ^2/NDF :4039299.5/31

All: 0.003+/-0.000 χ^2/NDF : 8212577.3/60

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.747+/-0.000 χ^2/NDF : 11421240307.9/12

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.752+/-0.000 χ^2/NDF : 8641727591.1/11

Left: -1.749+/-0.000 χ^2/NDF : 20065137126.5/24

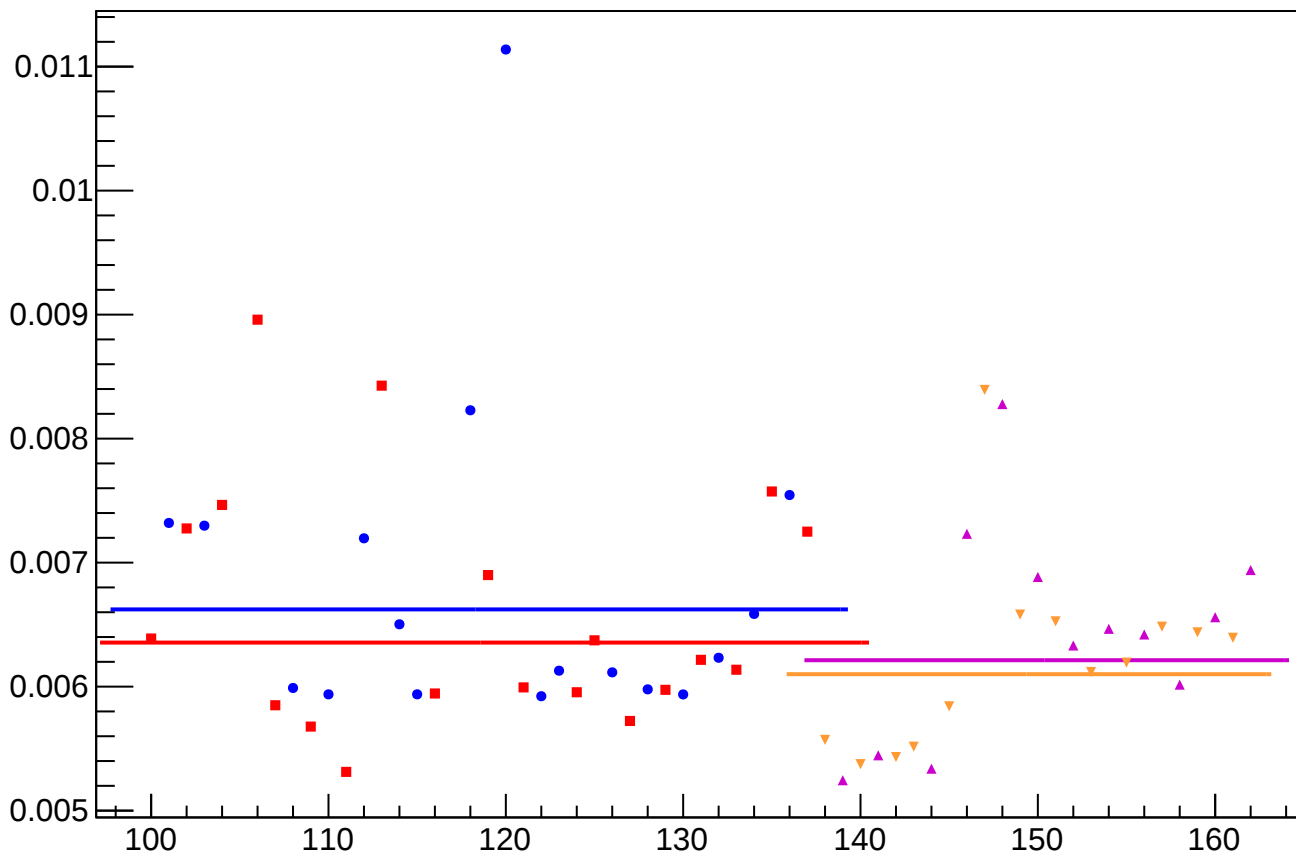
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.656+/-0.000 χ^2/NDF : 36844704612.7/28

Out: -1.692+/-0.000 χ^2/NDF : 41168586125.8/31

All: -1.675+/-0.000 χ^2/NDF : 78258768488.0/78

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 232630.4/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:202172.4/12

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 227861.1/18

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:280704.9/11

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 485905.8/24

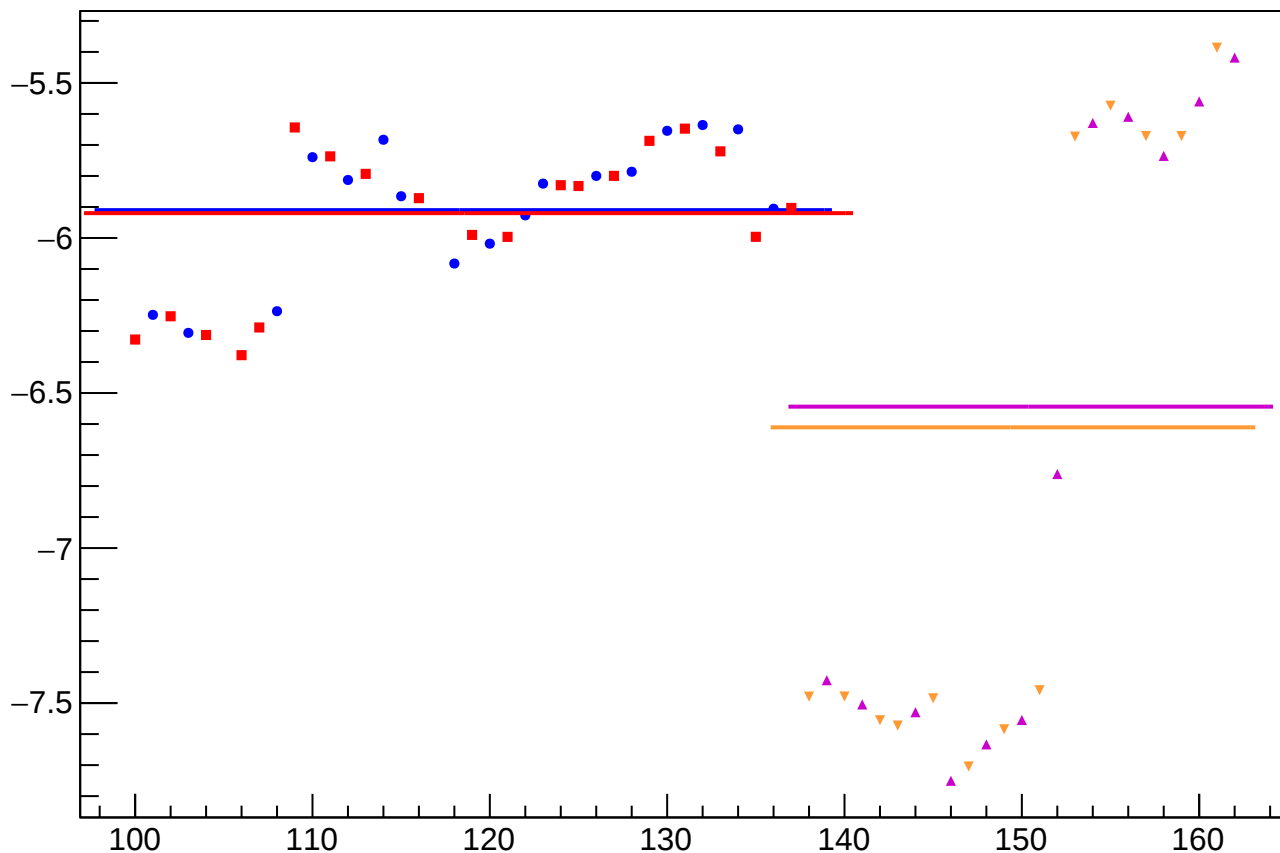
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 471227.9/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:542531.5/28

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:442770.9/31

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 995770.6/60

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.611+/-0.000 χ^2/NDF : 123266554713.9/12

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.544+/-0.000 χ^2/NDF : 110026739167.5/11

Left: -6.578+/-0.000 χ^2/NDF : 233578675983.3/24

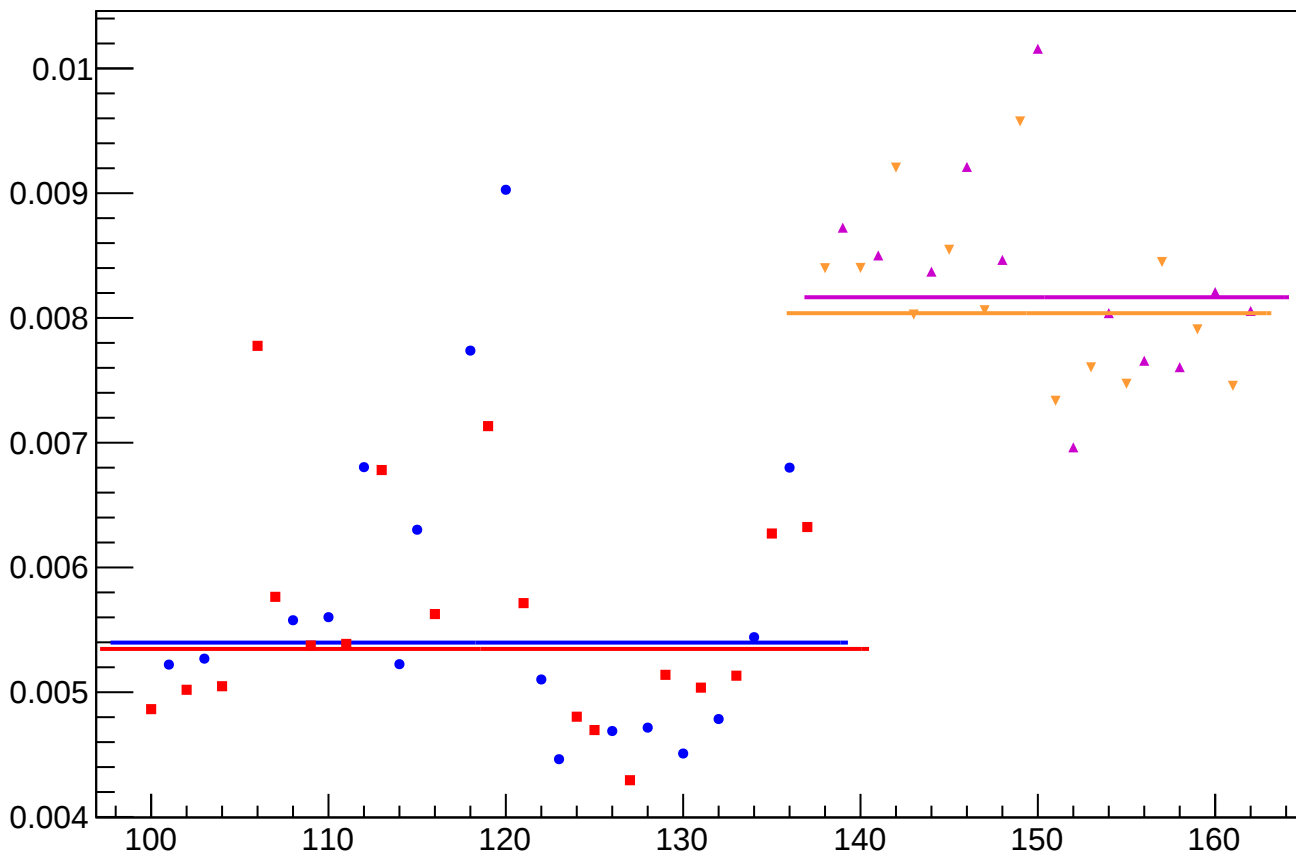
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.155+/-0.000 χ^2/NDF : 152616253398.3/28

Out: -6.173+/-0.000 χ^2/NDF : 175040752425.0/31

All: -6.164+/-0.000 χ^2/NDF : 327715428974.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :93317.0/12

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :141228.7/11

Left: 0.008+/-0.000 χ^2/NDF : 236644.0/24

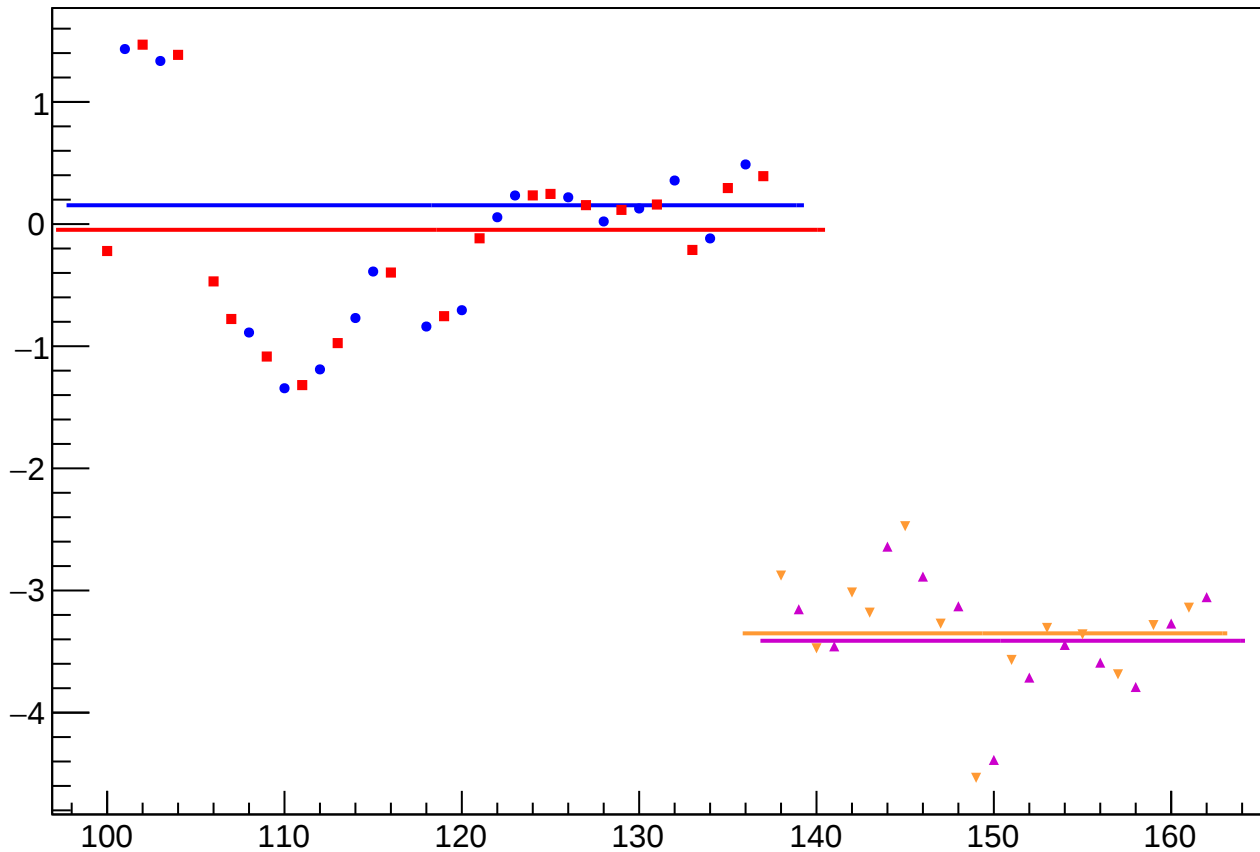
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.006+/-0.000 χ^2/NDF :1712165.1/28

Out: 0.006+/-0.000 χ^2/NDF :1526161.7/31

All: 0.006+/-0.000 χ^2/NDF : 3244248.7/60

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.351+/-0.000 χ^2/NDF : 7110759770.0/12

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.412+/-0.000 χ^2/NDF : 6490602549.4/11

Left: -3.381+/-0.000 χ^2/NDF : 13666567623.2/24

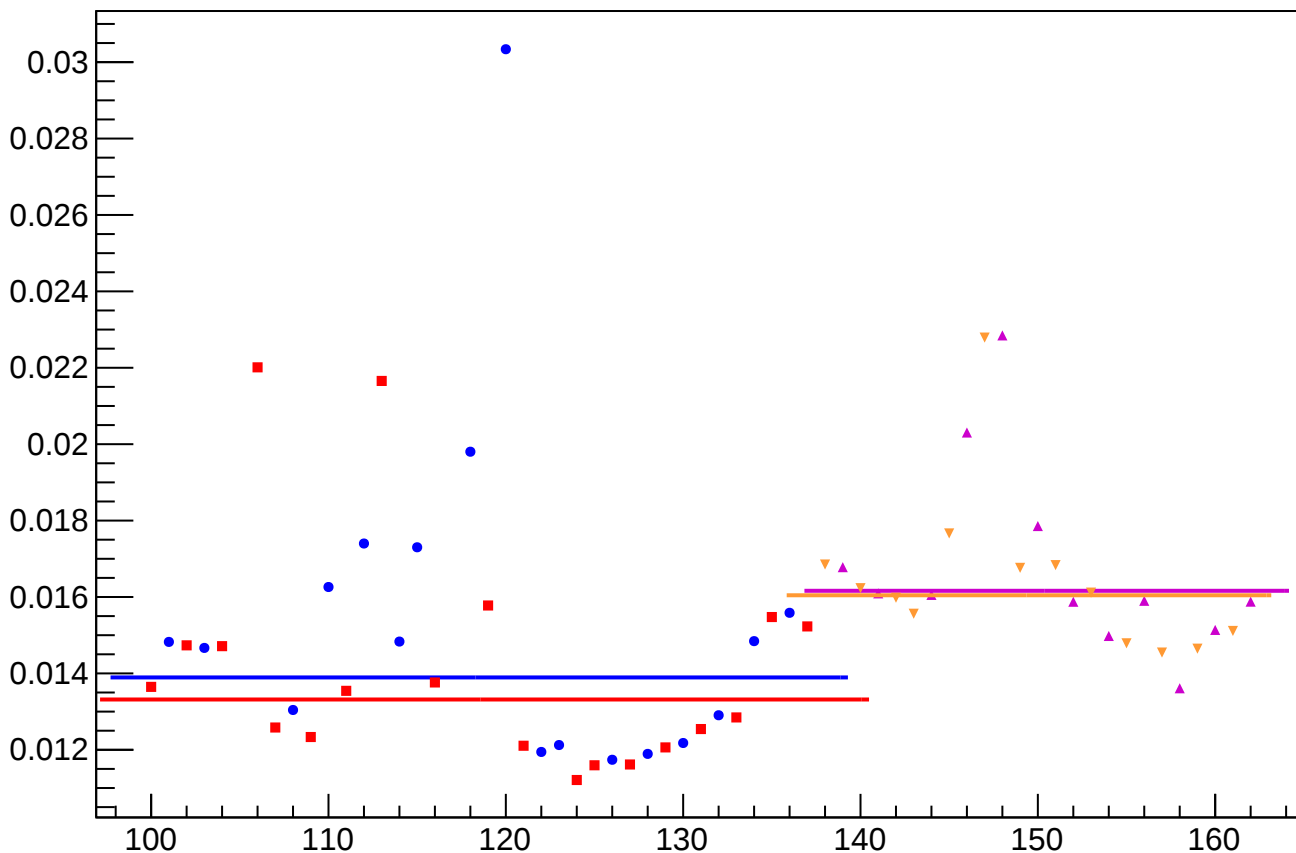
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.742+/-0.000 χ^2/NDF : 230863190772.5/28

Out: -1.685+/-0.000 χ^2/NDF : 225450172926.2/31

All: -1.712+/-0.000 χ^2/NDF : 456426118086.9

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :194145.3/12

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :274488.0/11

Left: 0.016+/-0.000 χ^2/NDF : 469119.0/24

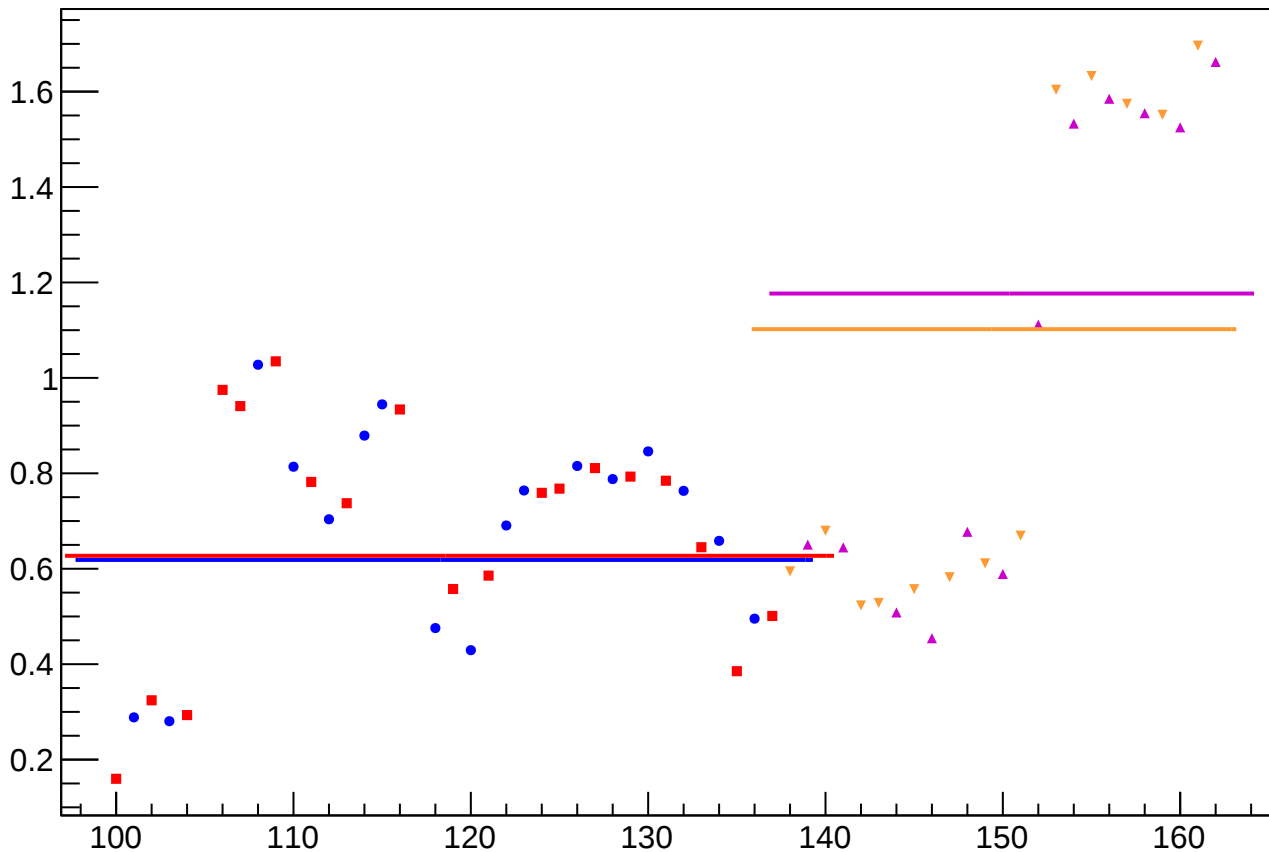
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :842858.0/28

Out: 0.015+/-0.000 χ^2/NDF :754304.9/31

All: 0.015+/-0.000 χ^2/NDF : 1609927.0/60

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619 $\pm$ 0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.102 $\pm$ 0.000 χ^2/NDF : 47947498886.4/12

Right Out: 0.627 $\pm$ 0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.177 $\pm$ 0.000 χ^2/NDF : 45710666109.0/11

Left: 1.142 $\pm$ 0.000 χ^2/NDF : 94219463367.4/24

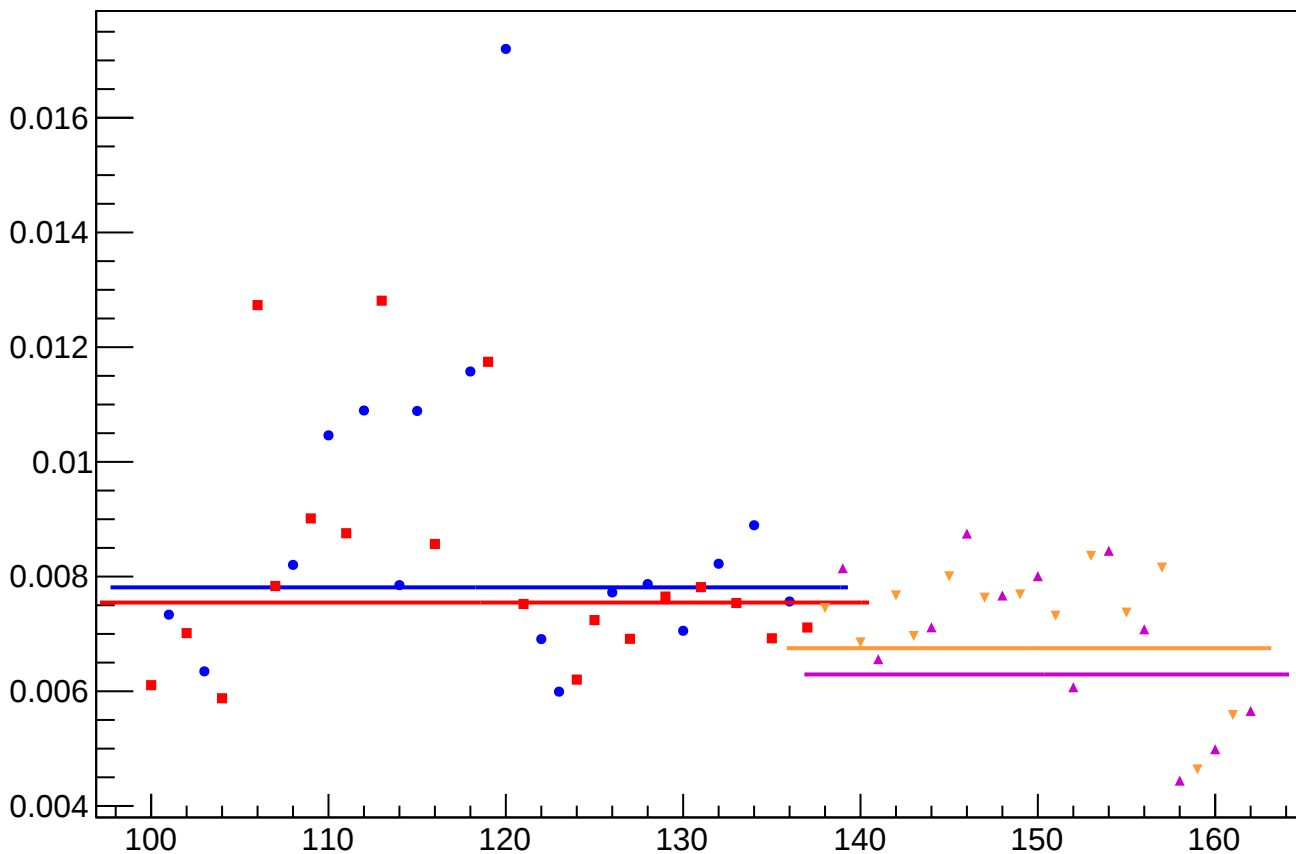
Right: 0.623 $\pm$ 0.000 χ^2/NDF : 11758668415.9/35

In: 1.006 $\pm$ 0.000 χ^2/NDF : 71775945980.1/28

Out: 0.928 $\pm$ 0.000 χ^2/NDF : 69814548756.0/31

All: 0.968 $\pm$ 0.000 χ^2/NDF : 142528557483.1

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.007+/-0.000 χ^2/NDF : 597609.7/12

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 836313.3/11

Left: 0.007+/-0.000 χ^2/NDF : 1476206.5/24

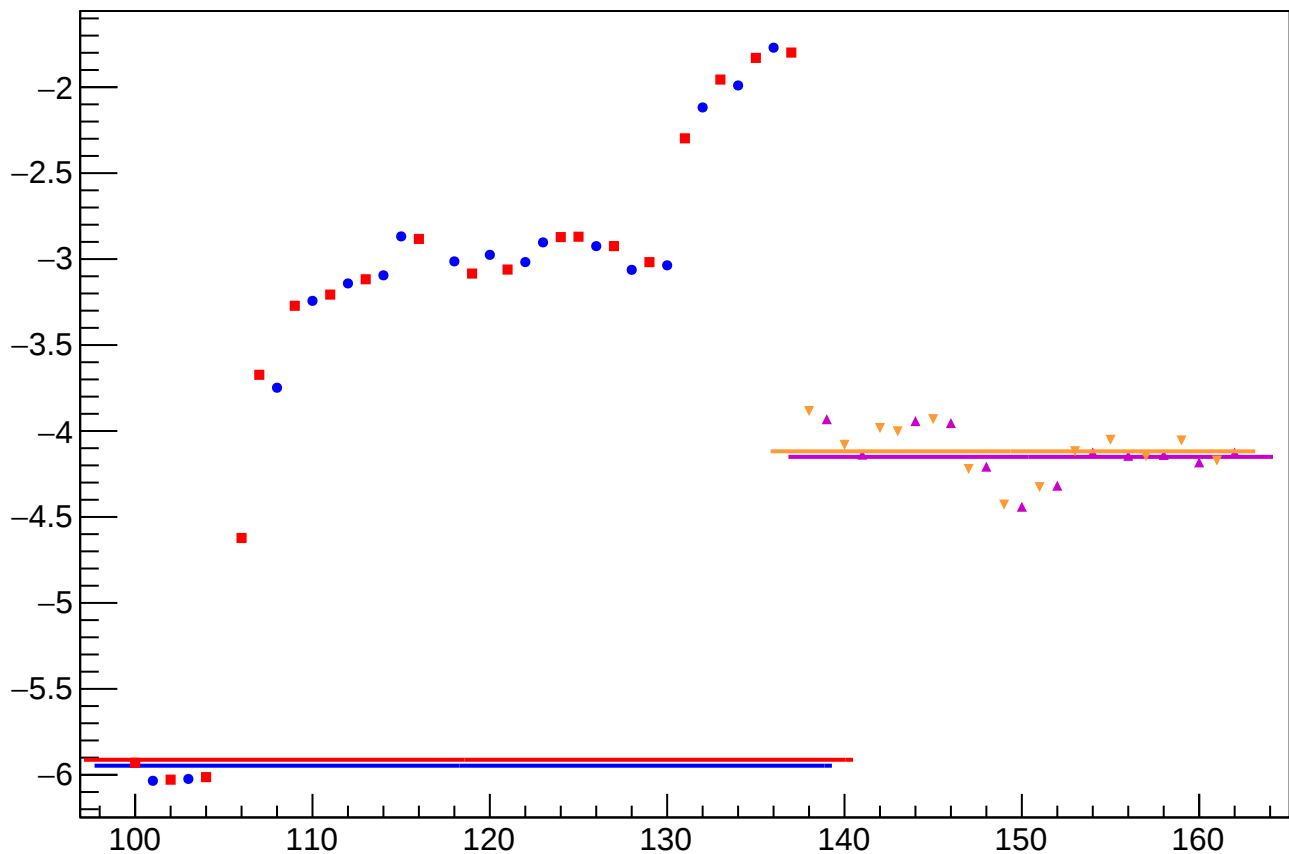
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1608729.5/28

Out: 0.007+/-0.000 χ^2/NDF : 1126560.2/31

All: 0.007+/-0.000 χ^2/NDF : 2760290.1/60

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.118+/-0.000 χ^2/NDF : 29707215.6/12

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.151+/-0.000 χ^2/NDF : 21099057.9/11

Left: -4.138+/-0.000 χ^2/NDF : 51494546.2/24

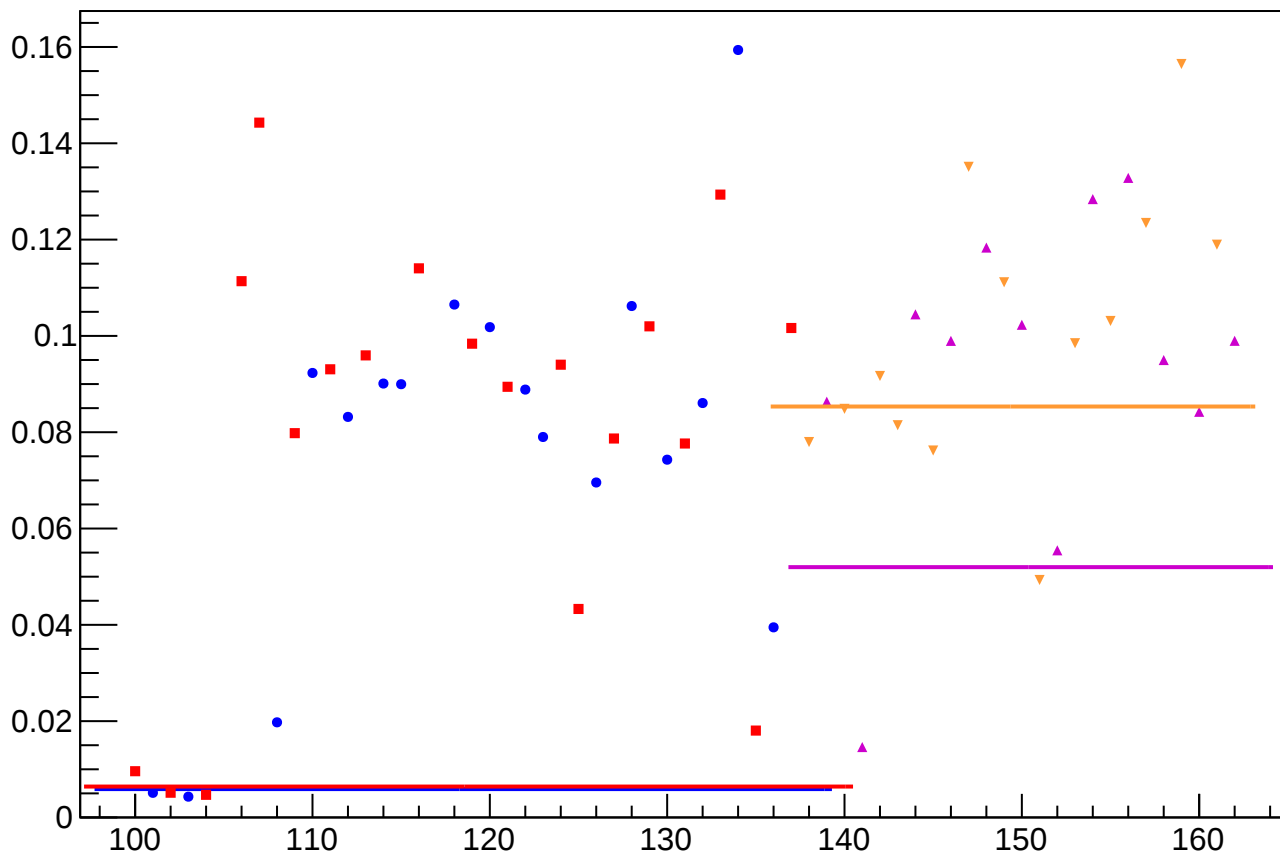
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.884+/-0.000 χ^2/NDF : 18544113953.4/28

Out: -5.864+/-0.000 χ^2/NDF : 17966746779.5/31

All: -5.875+/-0.000 χ^2/NDF : 36519555110.8/35

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.085+/-0.000 χ^2/NDF : 1489390.6/12

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.052+/-0.000 χ^2/NDF : 5872295.1/11

Left: 0.065+/-0.000 χ^2/NDF : 8820037.0/24

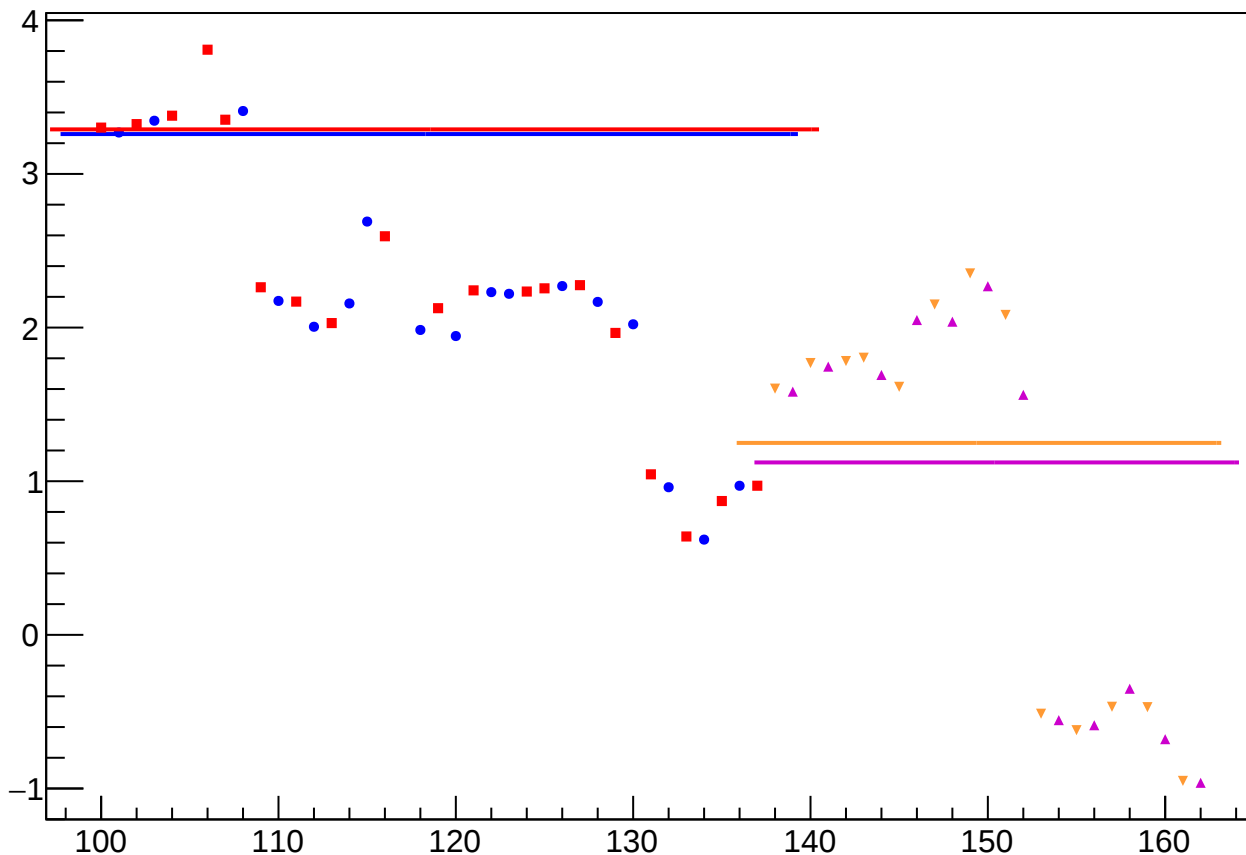
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 20860173.9/28

Out: 0.009+/-0.000 χ^2/NDF : 22821832.9/31

All: 0.008+/-0.000 χ^2/NDF : 43729264.8/60

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259 $\pm$ 0.000 χ^2 /NDF: 2921931976.8/16

Left Out: 1.249 $\pm$ 0.000 χ^2 /NDF: 1201729074.5/12

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3262231575.5/18

Left In: 1.122 $\pm$ 0.000 χ^2 /NDF: 1318016089.0/11

Left: 1.182 $\pm$ 0.000 χ^2 /NDF: 2528145232.1/24

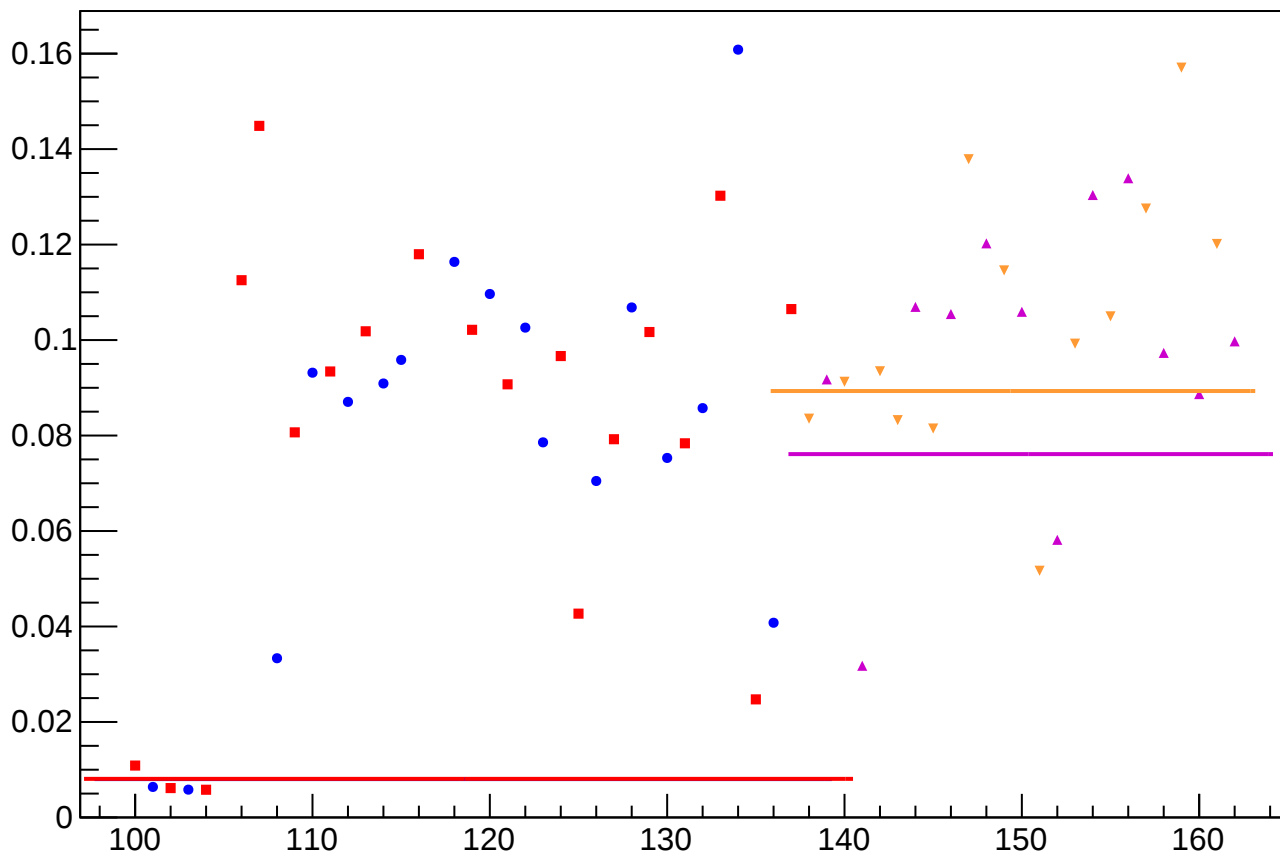
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6196998308.4/35

In: 3.180 $\pm$ 0.000 χ^2 /NDF: 9135306610.6/28

Out: 3.217 $\pm$ 0.000 χ^2 /NDF: 8381358133.6/31

All: 3.198 $\pm$ 0.000 χ^2 /NDF: 17536912413.3/66

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.089+/-0.000 χ^2/NDF :1365572.9/12

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.076+/-0.000 χ^2/NDF :2613101.2/11

Left: 0.082+/-0.000 χ^2/NDF : 4160206.8/24

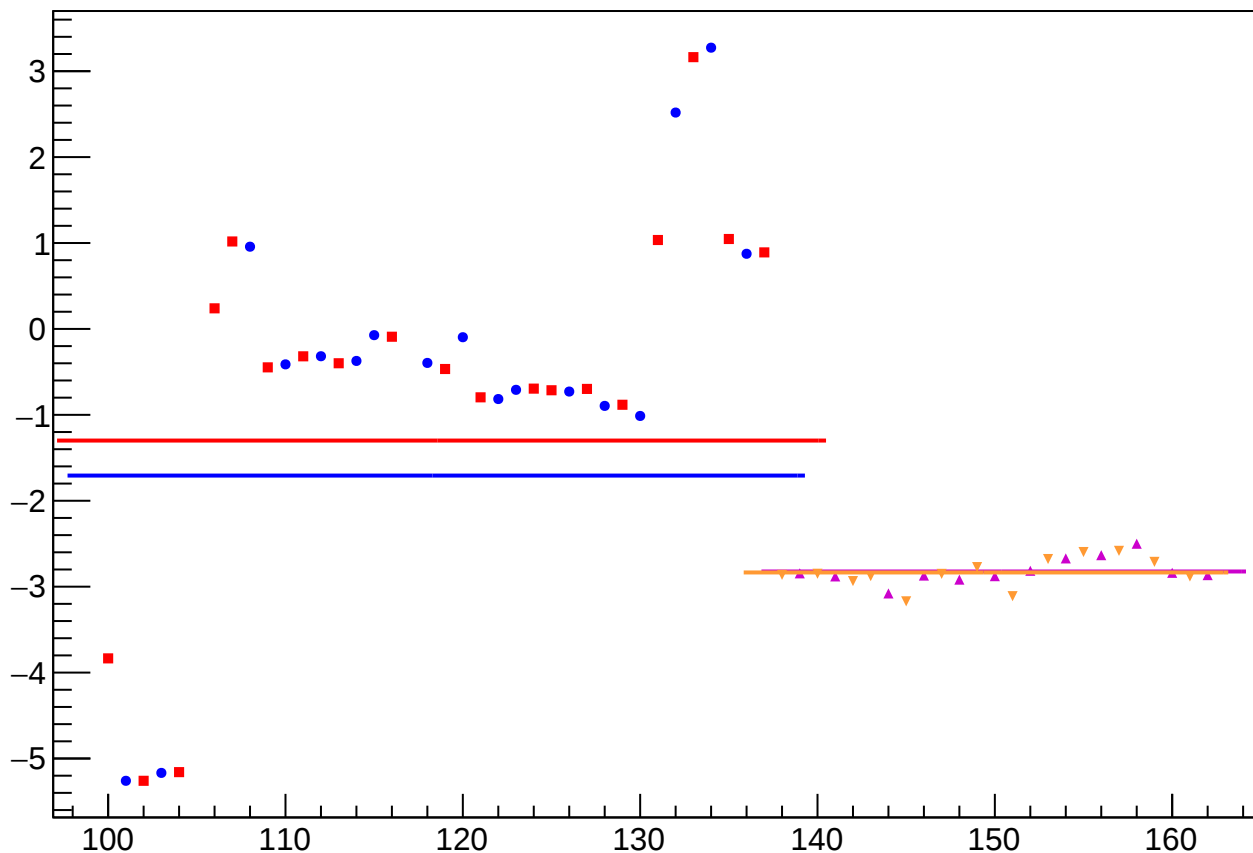
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF :20287671.2/28

Out: 0.011+/-0.000 χ^2/NDF :22093312.3/31

All: 0.011+/-0.000 χ^2/NDF : 42385449.0/60

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.835+/-0.000 χ^2/NDF : 4339206416.5/12

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.823+/-0.000 χ^2/NDF : 3223200211.0/11

Left: -2.829+/-0.000 χ^2/NDF : 7572037983.9/24

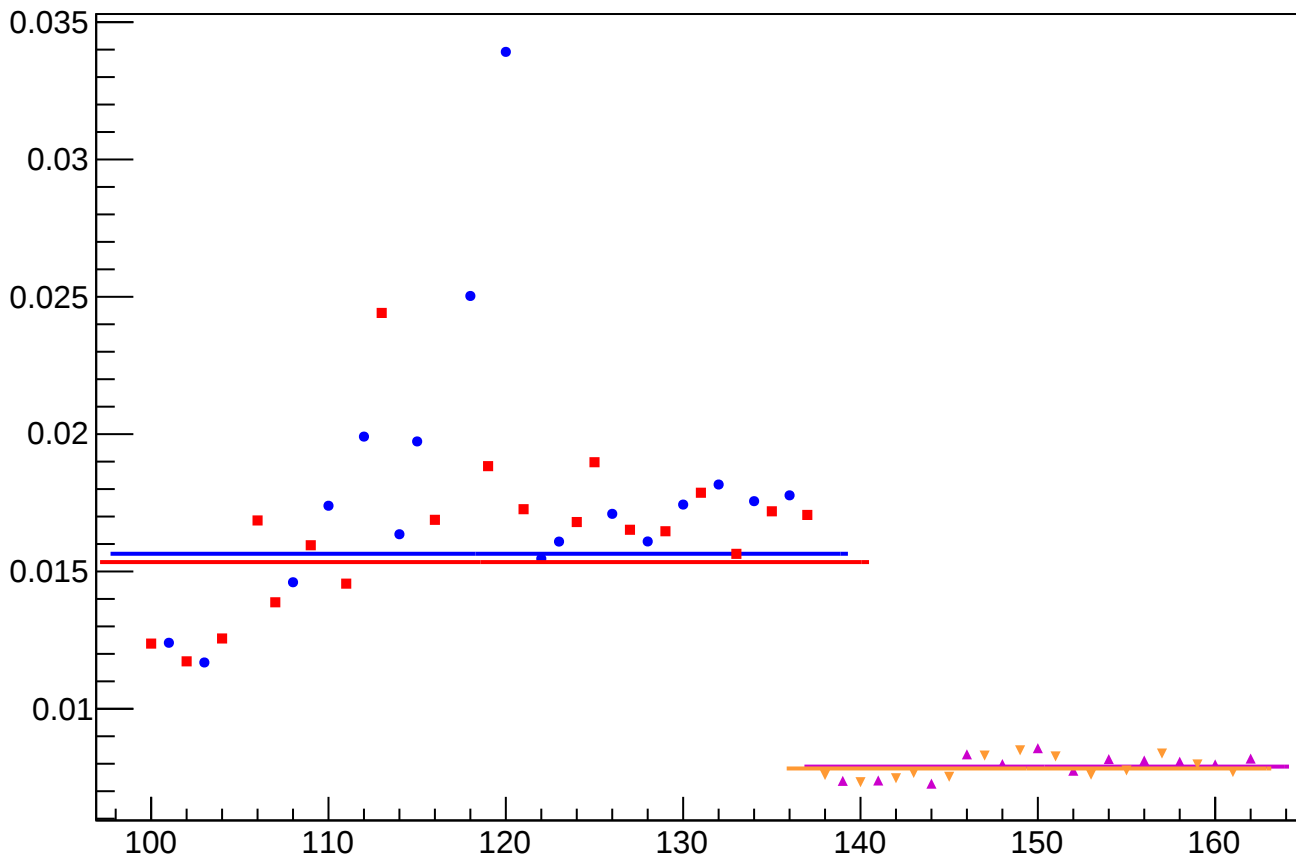
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.674+/-0.000 χ^2/NDF : 194077178419.9/28

Out: -2.607+/-0.000 χ^2/NDF : 235248283229.2/31

All: -2.640+/-0.000 χ^2/NDF : 429716347236.8

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 40038.5/12

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 47340.8/11

Left: 0.008+/-0.000 χ^2/NDF : 88078.0/24

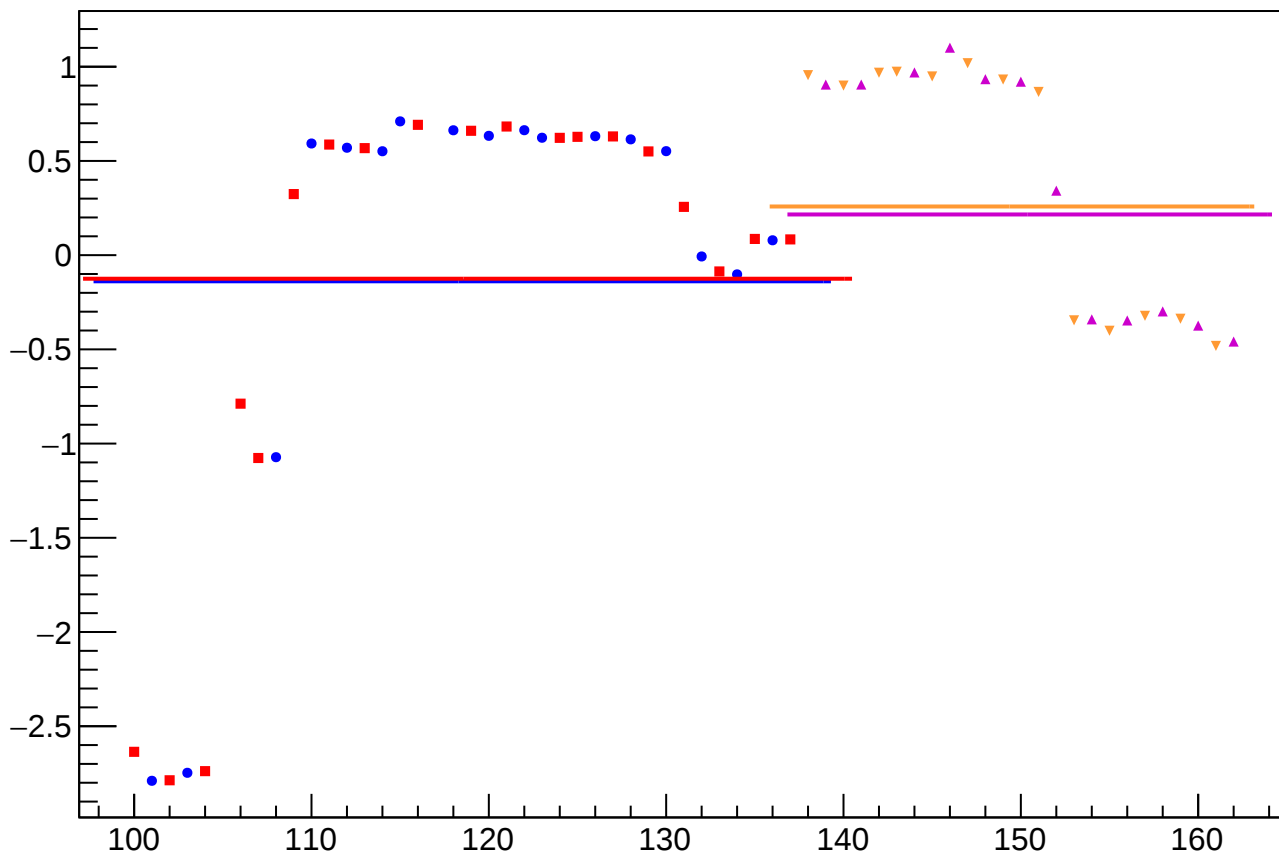
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3008629.9/28

Out: 0.009+/-0.000 χ^2/NDF : 2927247.3/31

All: 0.009+/-0.000 χ^2/NDF : 5935893.2/60

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139 ± 0.000 $\chi^2/\text{NDF}: 715049983856.2/16$

Left Out: 0.258 ± 0.000 $\chi^2/\text{NDF}: 97398019109.6/12$

Right Out: -0.125 ± 0.000 $\chi^2/\text{NDF}: 761496762534.7/18$

Left In: 0.216 ± 0.000 $\chi^2/\text{NDF}: 85775989804.9/11$

Left: 0.237 ± 0.000 $\chi^2/\text{NDF}: 183373758973.5/24$

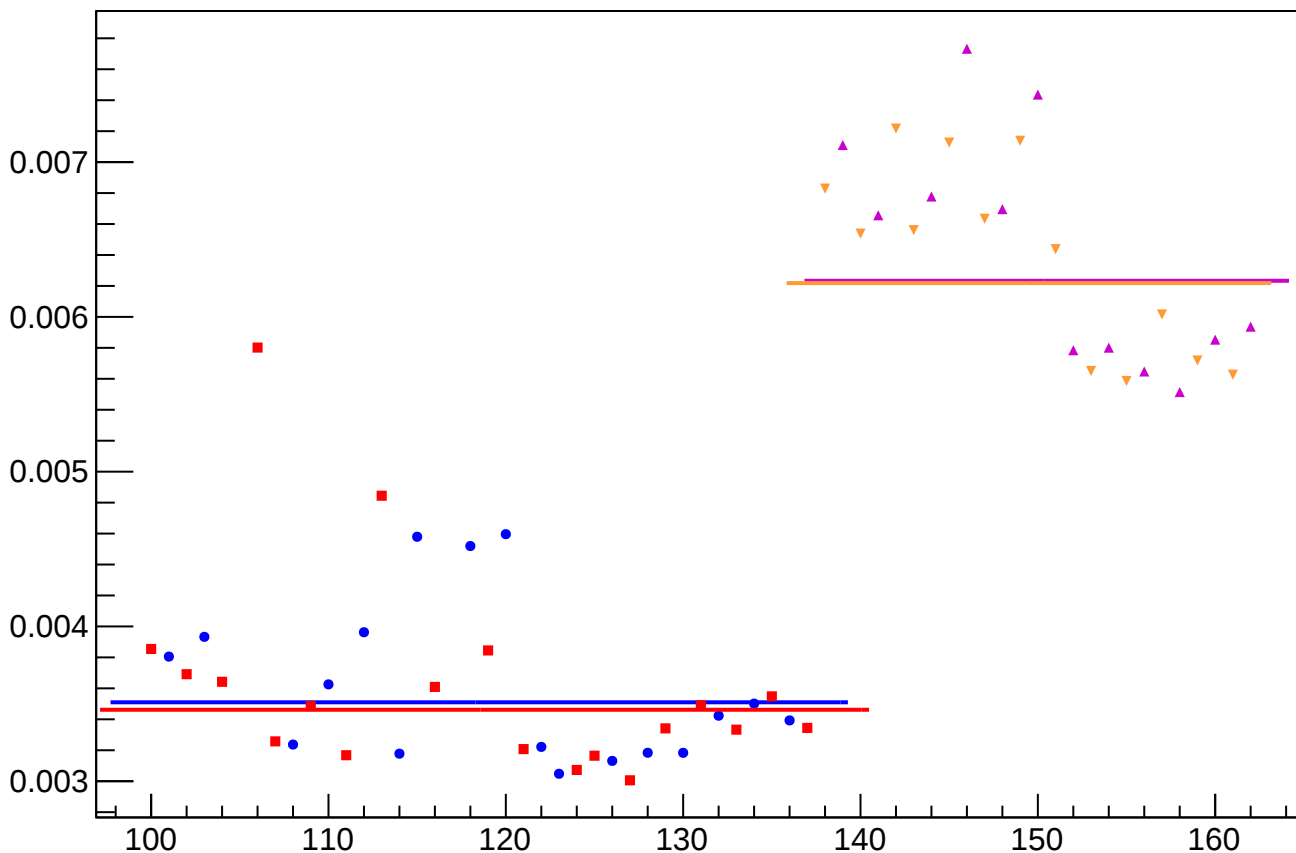
Right: -0.132 ± 0.000 $\chi^2/\text{NDF}: 1476596319761.2/3$

In: -0.031 ± 0.000 $\chi^2/\text{NDF}: 820442895078.6/28$

Out: -0.016 ± 0.000 $\chi^2/\text{NDF}: 882268225167.0/31$

All: -0.023 ± 0.000 $\chi^2/\text{NDF}: 1702790177469$

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF :146274.4/12

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :198802.6/11

Left: 0.006+/-0.000 χ^2/NDF : 345126.6/24

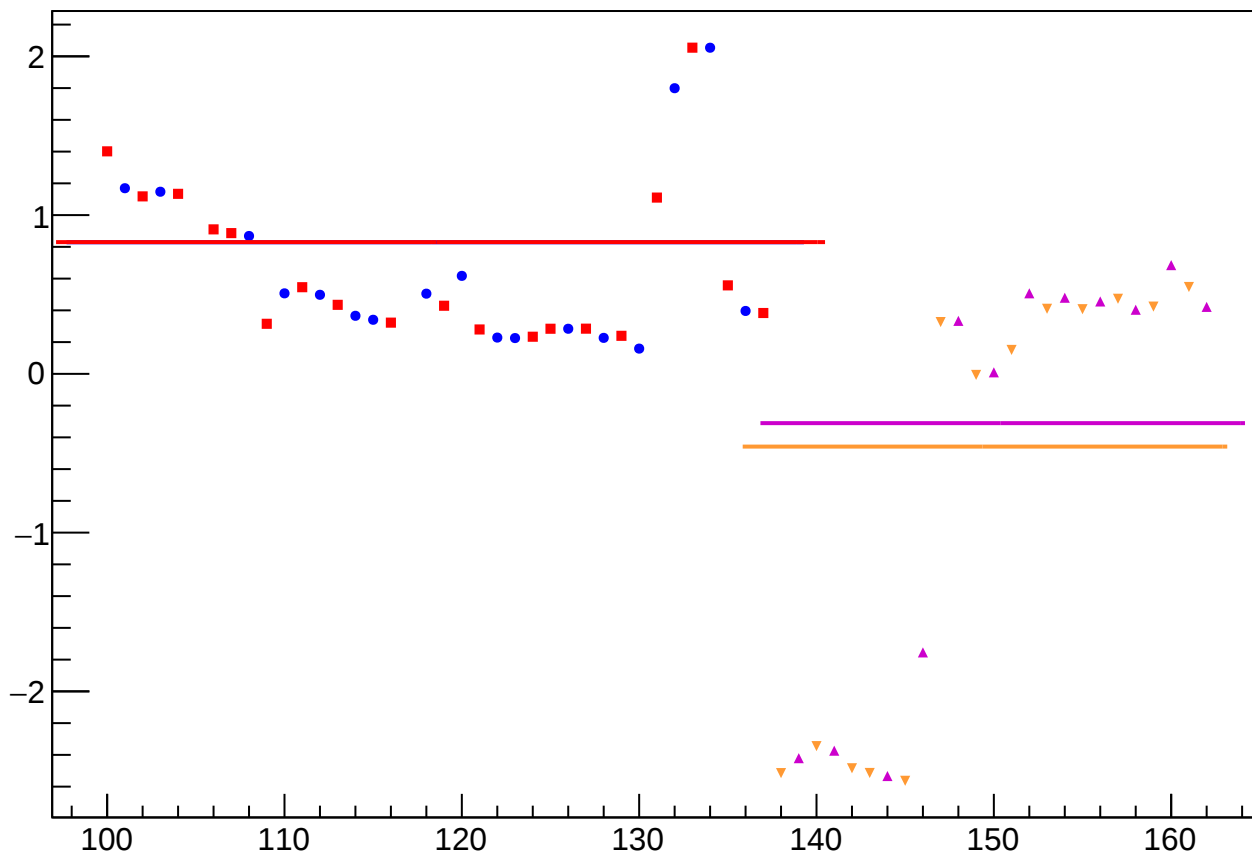
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2683473.1/28

Out: 0.004+/-0.000 χ^2/NDF :2779131.4/31

All: 0.004+/-0.000 χ^2/NDF : 5469439.5/60

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.458+/-0.000 χ^2/NDF : 420510690221.2/12

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.310+/-0.000 χ^2/NDF : 371781651722.2/11

Left: -0.385+/-0.000 χ^2/NDF : 795063620816.9/24

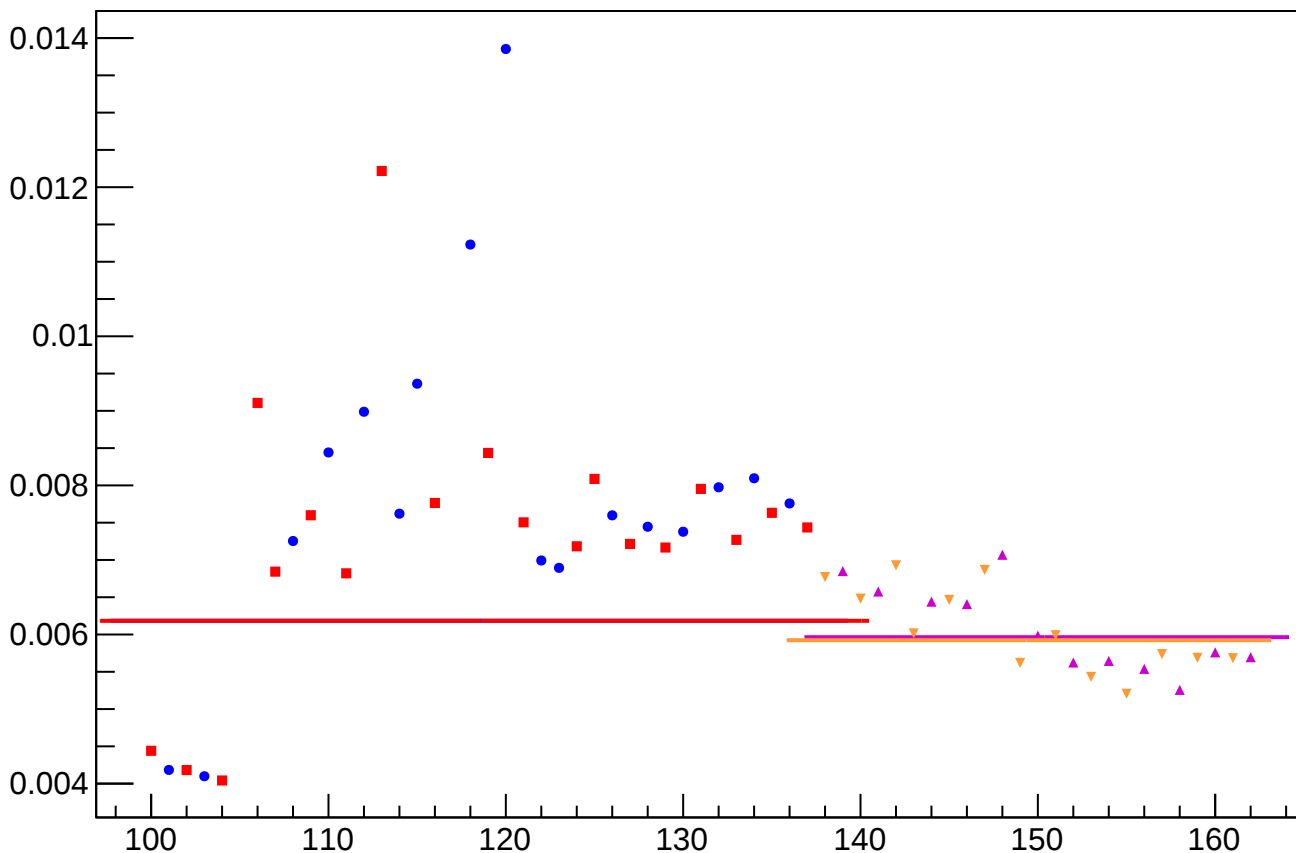
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.094+/-0.000 χ^2/NDF : 519935191136.6/28

Out: 0.023+/-0.000 χ^2/NDF : 611772495190.7/31

All: 0.057+/-0.000 χ^2/NDF : 1132712039279.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :137705.5/12

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :140068.9/11

Left: 0.006+/-0.000 χ^2/NDF : 278190.8/24

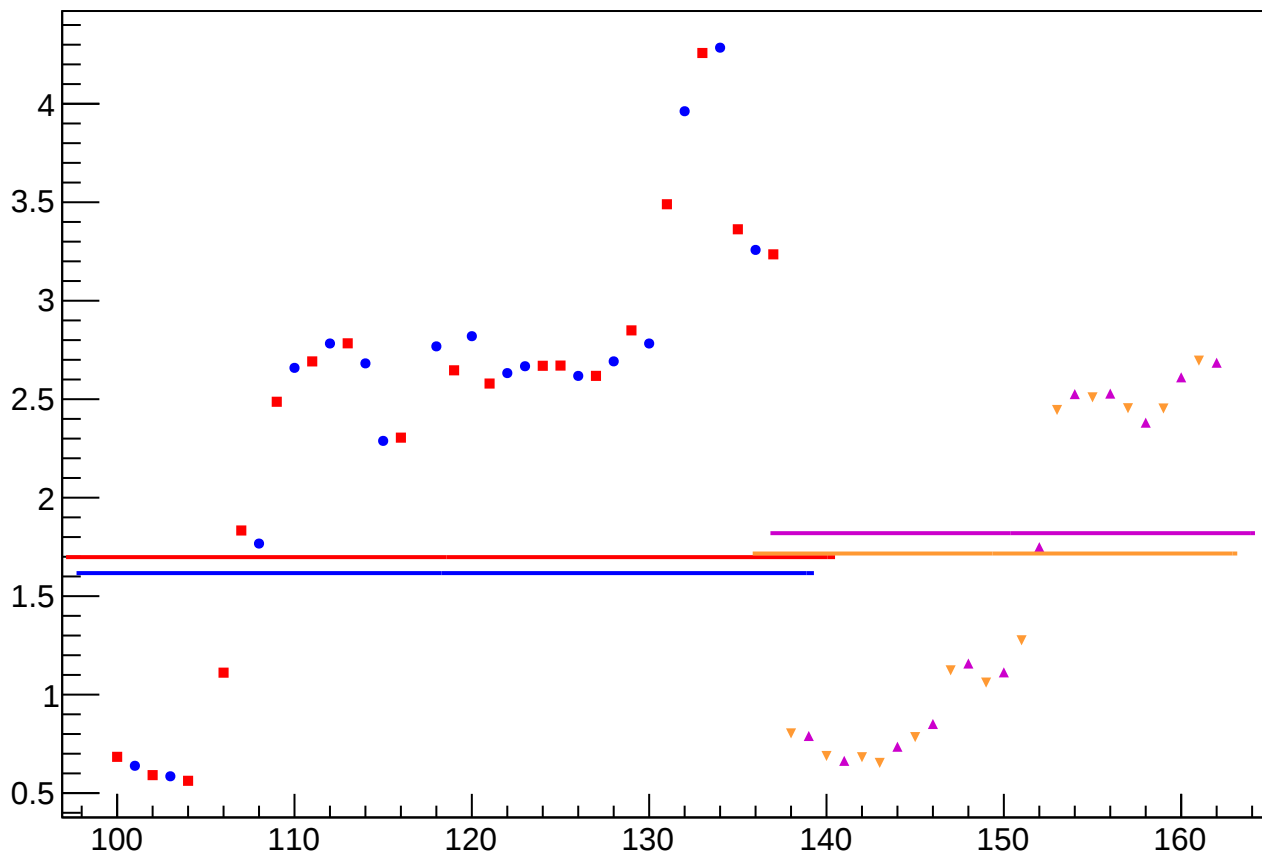
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1377769.5/28

Out: 0.006+/-0.000 χ^2/NDF :1177416.7/31

All: 0.006+/-0.000 χ^2/NDF : 2555373.9/60

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.716+/-0.000 χ^2/NDF : 183622780966.0/12

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 1.820+/-0.000 χ^2/NDF : 173690349648.8/11

Left: 1.769+/-0.000 χ^2/NDF : 358778764161.2/24

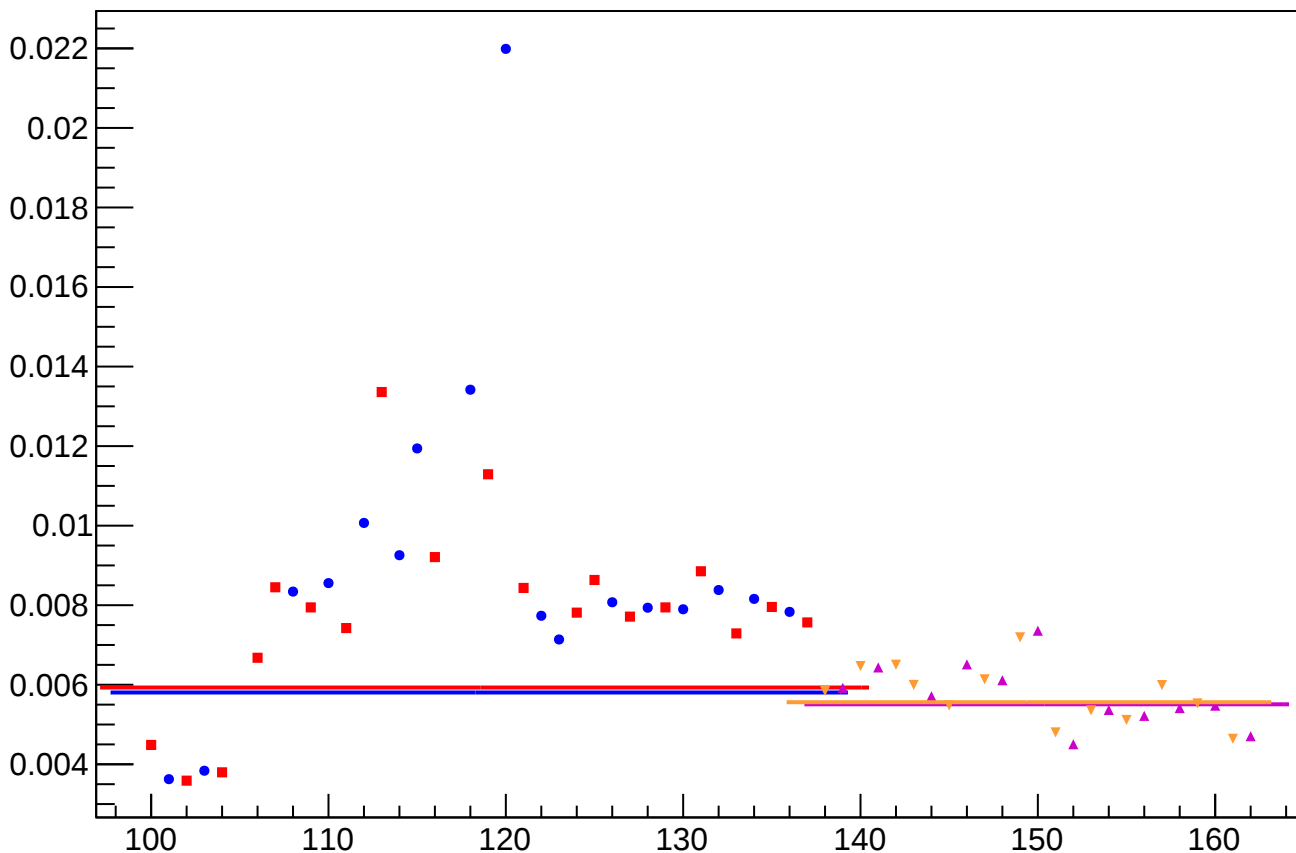
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 1.751+/-0.000 χ^2/NDF : 380472509653.9/28

Out: 1.710+/-0.000 χ^2/NDF : 411063952210.2/31

All: 1.731+/-0.000 χ^2/NDF : 791895720626.3

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.006+/-0.000 χ^2/NDF : 241842.7/12

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.006+/-0.000 χ^2/NDF : 297348.0/11

Left: 0.006+/-0.000 χ^2/NDF : 539949.0/24

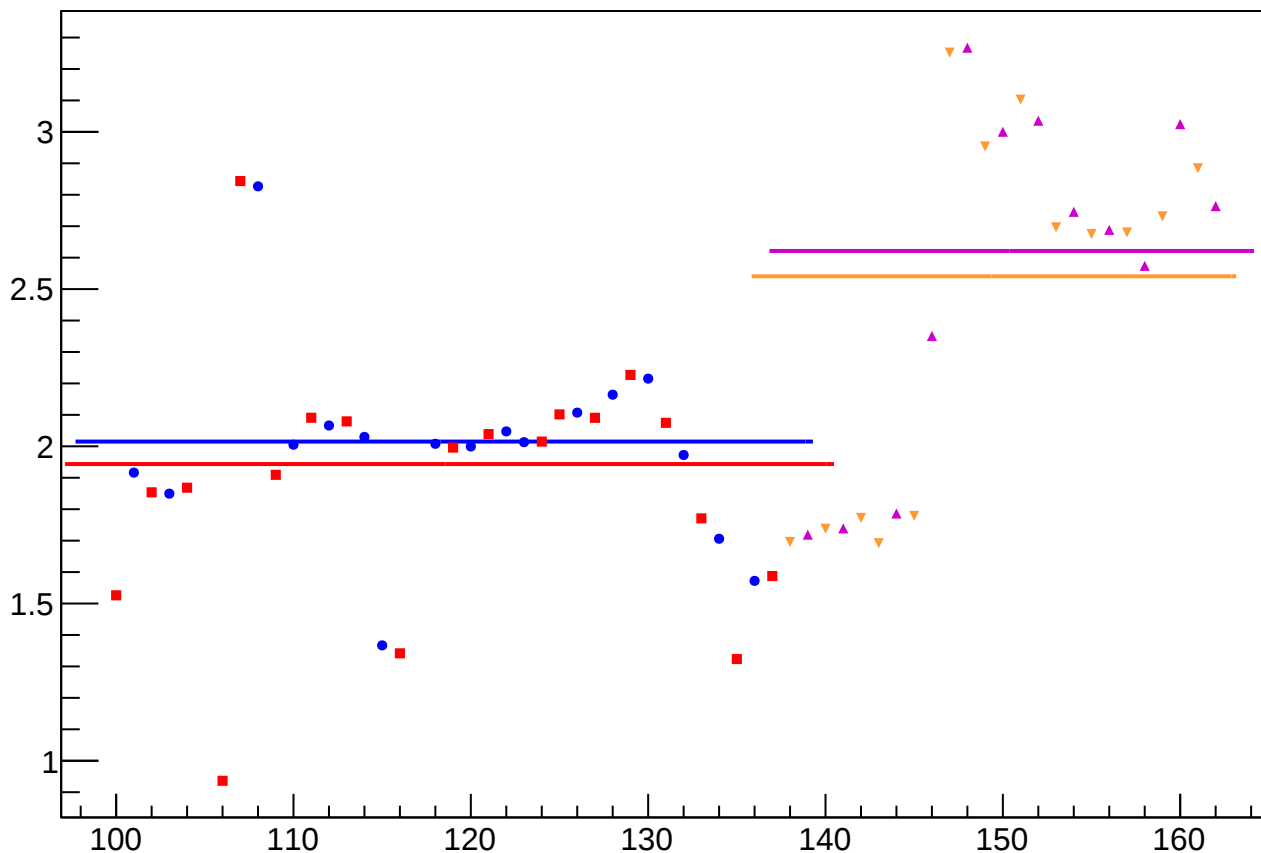
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2232053.6/28

Out: 0.006+/-0.000 χ^2/NDF : 1953979.0/31

All: 0.006+/-0.000 χ^2/NDF : 4189097.5/60

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.541+/-0.000 χ^2/NDF : 47545168441.8/12

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.621+/-0.000 χ^2/NDF : 40474635413.9/11

Left: 2.581+/-0.000 χ^2/NDF : 88548817416.4/24

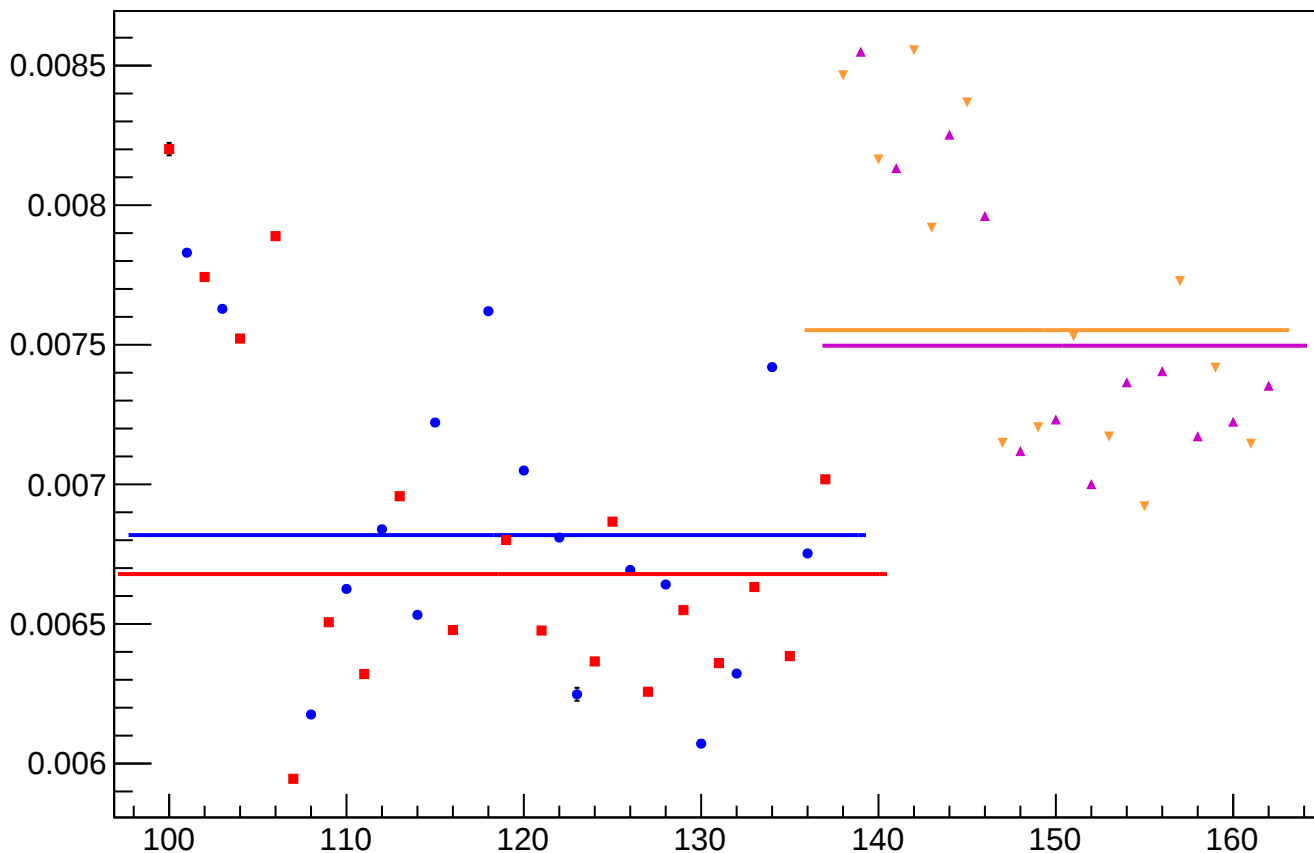
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.346+/-0.000 χ^2/NDF : 80144971827.6/28

Out: 2.251+/-0.000 χ^2/NDF : 96851198395.4/31

All: 2.297+/-0.000 χ^2/NDF : 178395888322.2

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 83273.6/12

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF : 69807.4/11

Left: 0.008+/-0.000 χ^2/NDF : 153586.0/24

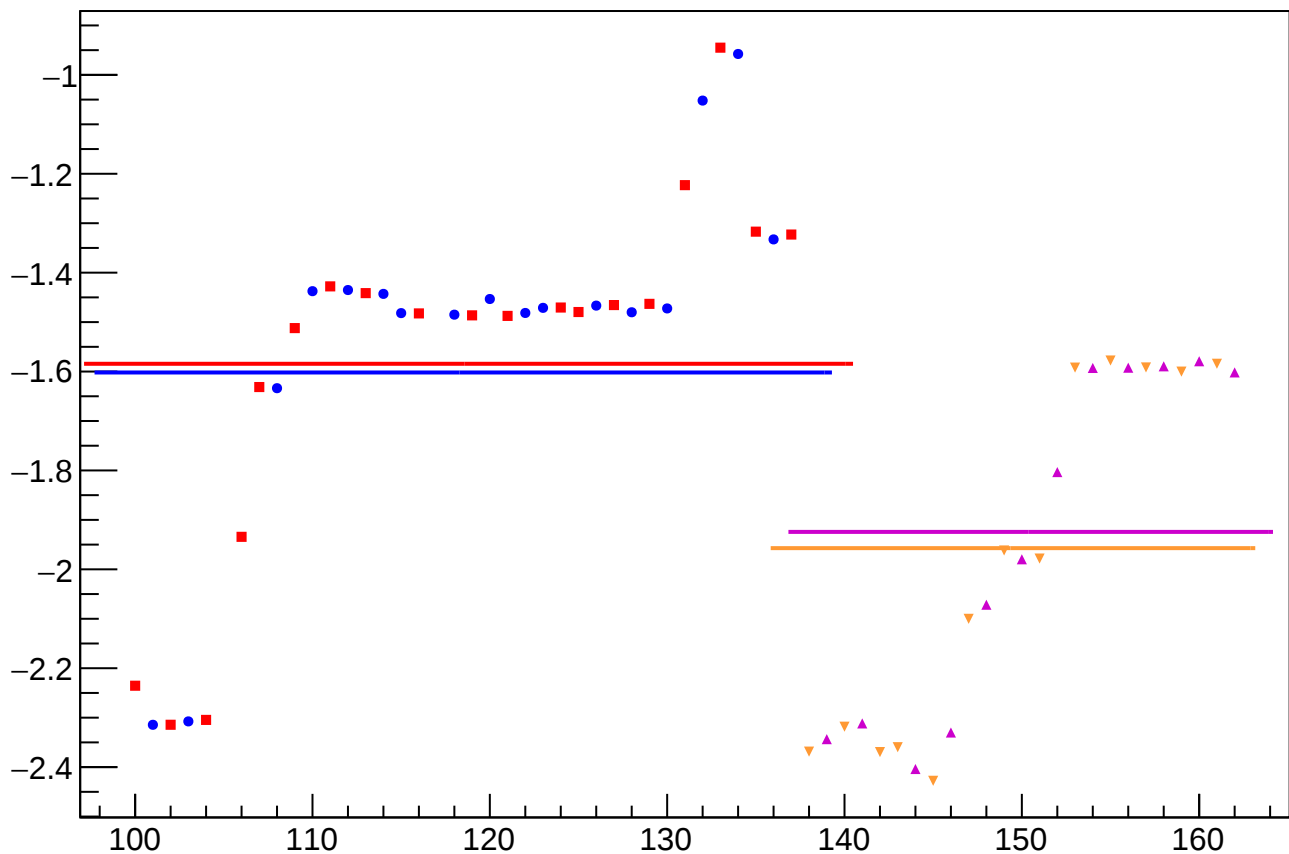
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF : 214357.6/28

Out: 0.007+/-0.000 χ^2/NDF : 278404.3/31

All: 0.007+/-0.000 χ^2/NDF : 493896.4/60

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.957+/-0.000 χ^2/NDF : 128294515053.4/12

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.924+/-0.000 χ^2/NDF : 120630136534.8/11

Left: -1.941+/-0.000 χ^2/NDF : 249510550345.3/24

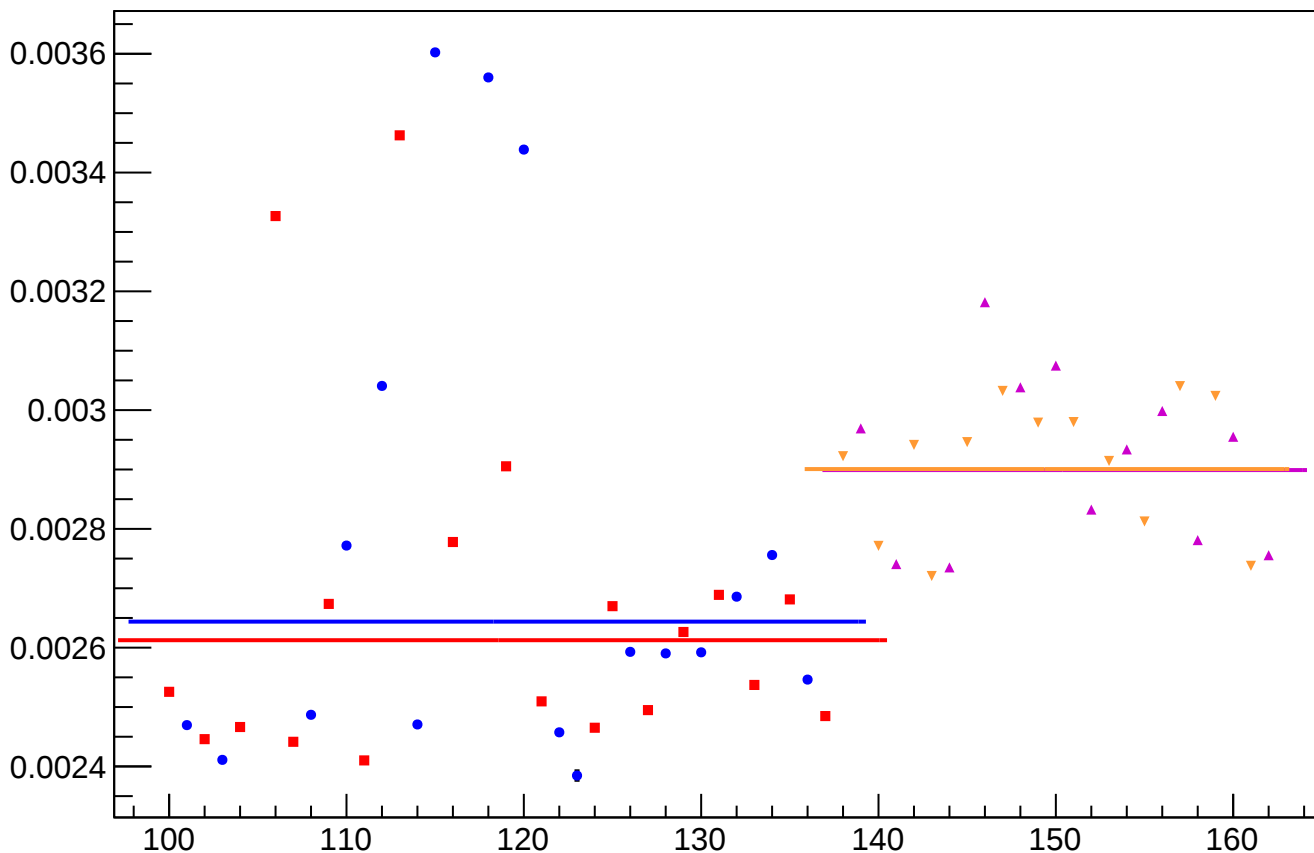
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.779+/-0.000 χ^2/NDF : 312053353521.8/28

Out: -1.780+/-0.000 χ^2/NDF : 343235451934.2/31

All: -1.779+/-0.000 χ^2/NDF : 655290403425.5

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :26604.6/12

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :41716.9/11

Left: 0.003+/-0.000 χ^2/NDF : 68324.6/24

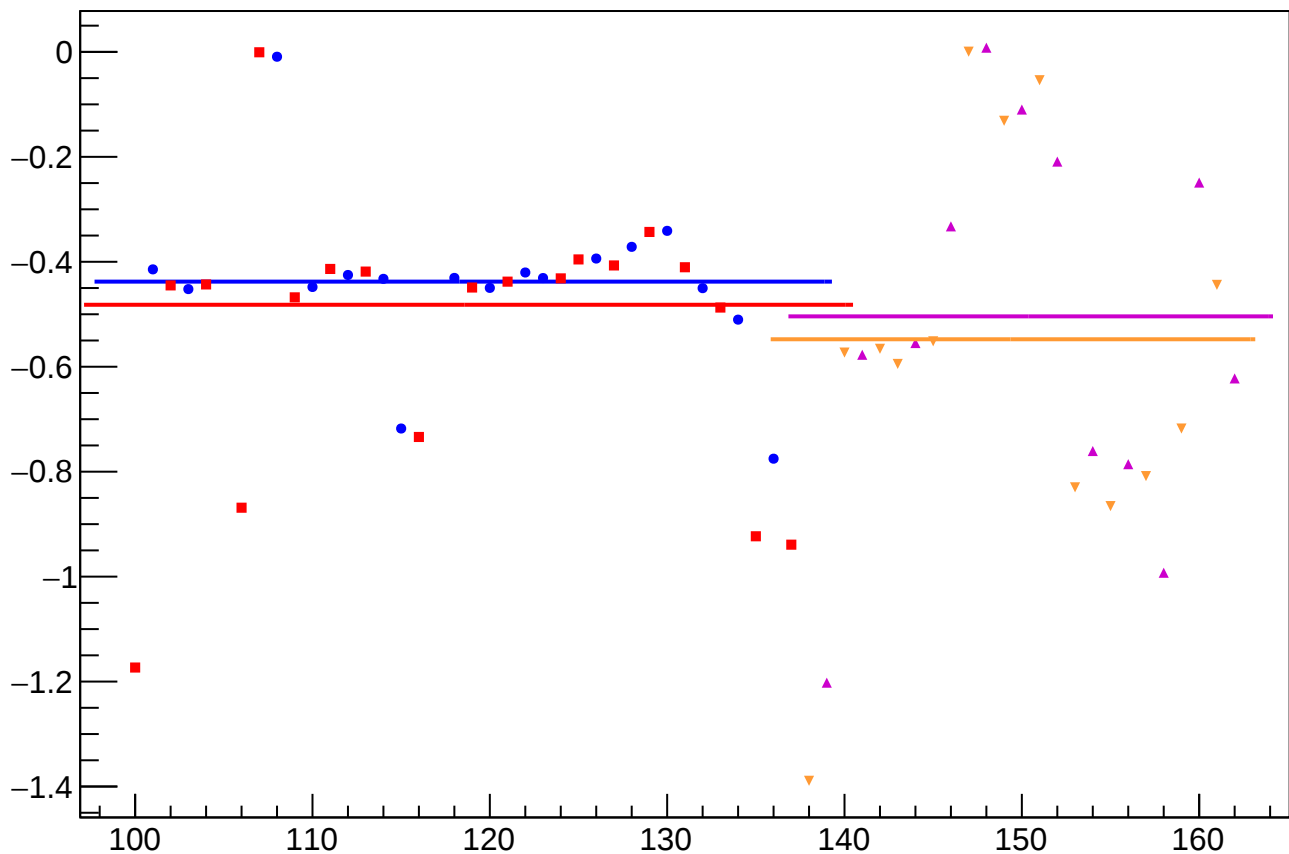
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :257293.0/28

Out: 0.003+/-0.000 χ^2/NDF :217155.5/31

All: 0.003+/-0.000 χ^2/NDF : 475259.3/60

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.548+/-0.000 χ^2/NDF : 7514221290.0/12

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.504+/-0.000 χ^2/NDF : 6934708345.1/11

Left: -0.526+/-0.000 χ^2/NDF : 14503793513.9/24

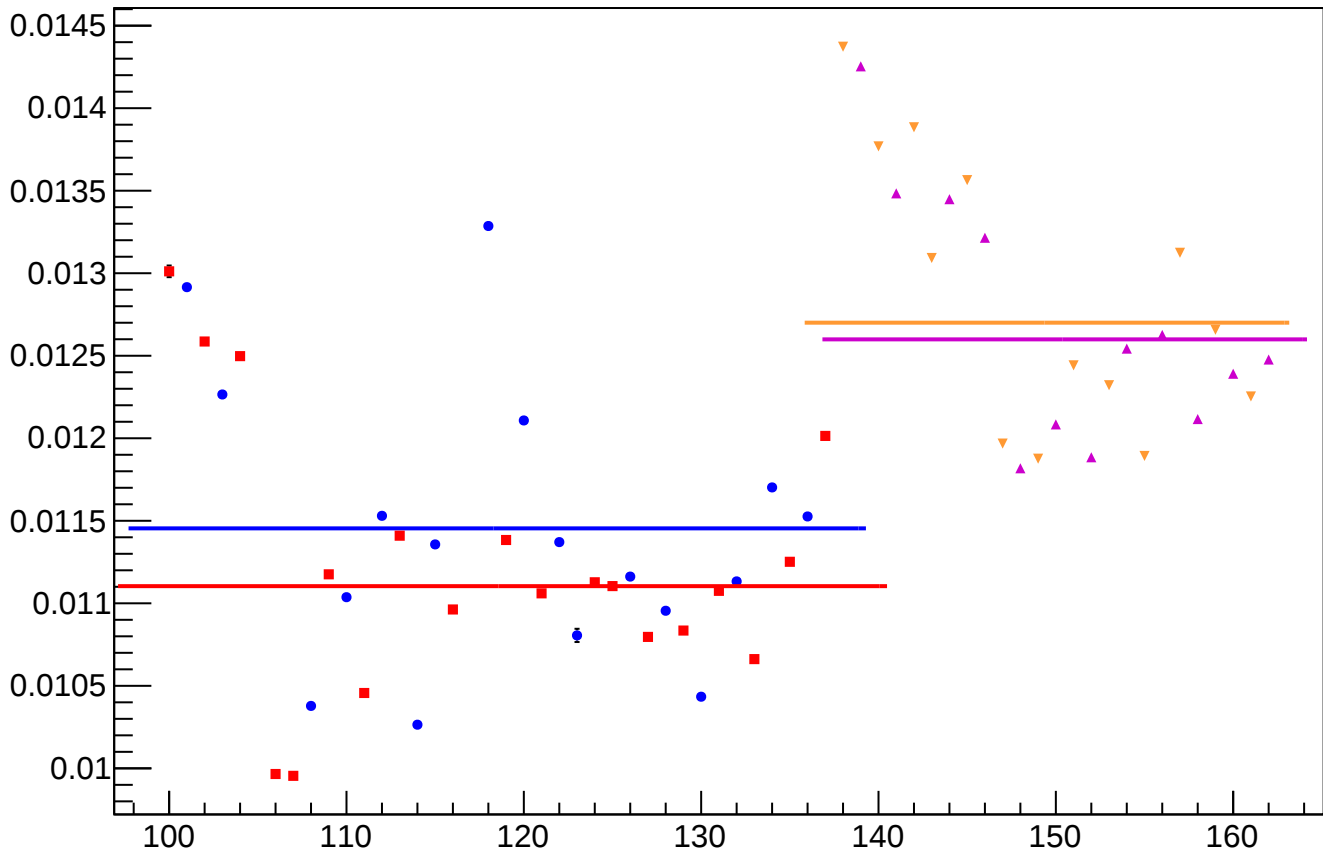
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.474+/-0.000 χ^2/NDF : 8514068449.8/28

Out: -0.515+/-0.000 χ^2/NDF : 10331443266.1/31

All: -0.495+/-0.000 χ^2/NDF : 18940342119.0/78

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.013+/-0.000 χ^2/NDF : 65673.3/12

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.013+/-0.000 χ^2/NDF : 52761.3/11

Left: 0.013+/-0.000 χ^2/NDF : 119024.4/24

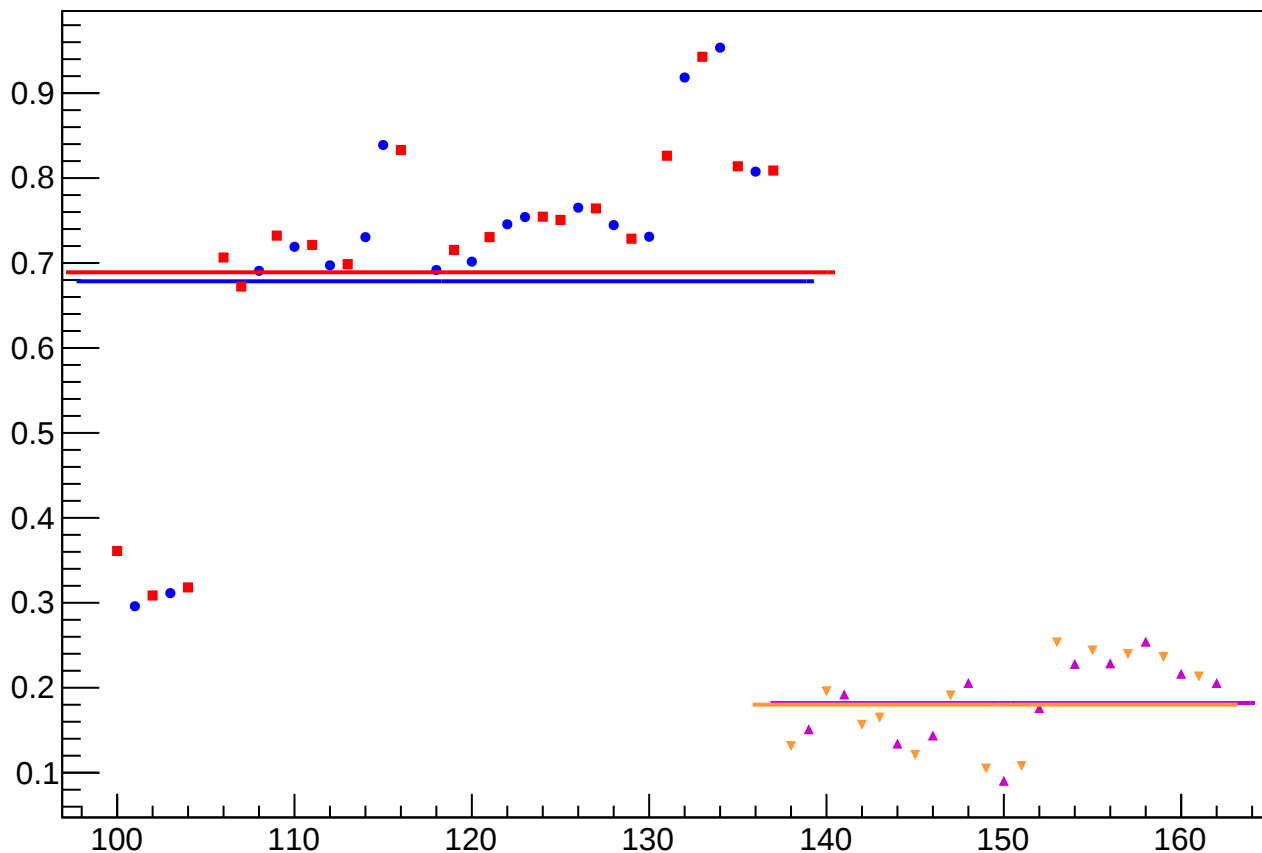
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 187378.7/28

Out: 0.012+/-0.000 χ^2/NDF : 266281.9/31

All: 0.012+/-0.000 χ^2/NDF : 456643.9/60

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.180+/-0.000 χ^2/NDF : 5167275440.5/12

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.182+/-0.000 χ^2/NDF : 4093841863.3/11

Left: 0.181+/-0.000 χ^2/NDF : 9265147566.2/24

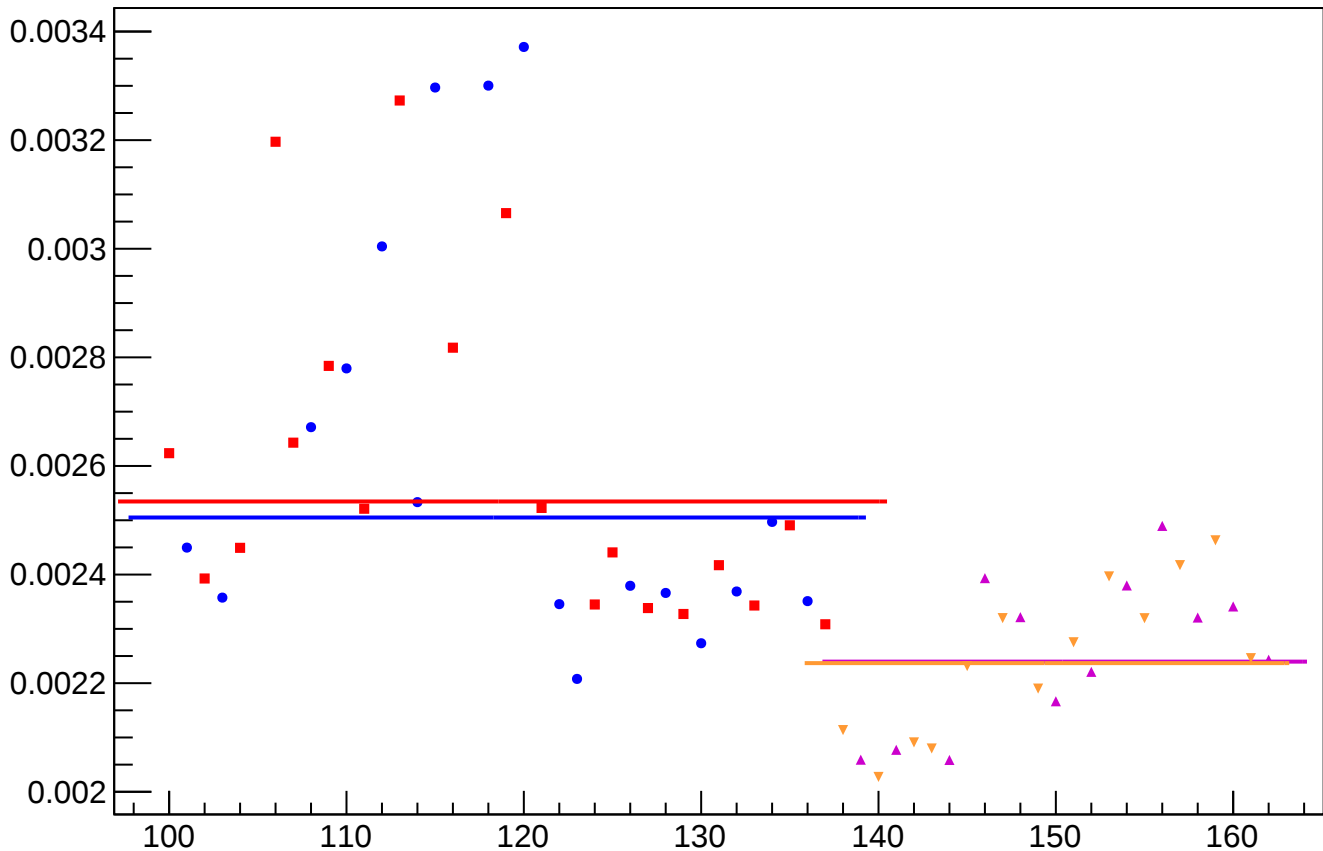
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.354+/-0.000 χ^2/NDF : 205929223170.1/28

Out: 0.359+/-0.000 χ^2/NDF : 215619232069.8/31

All: 0.357+/-0.000 χ^2/NDF : 421584170524.4

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF : 68073.8/12

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF : 70850.0/11

Left: 0.002+/-0.000 χ^2/NDF : 138938.2/24

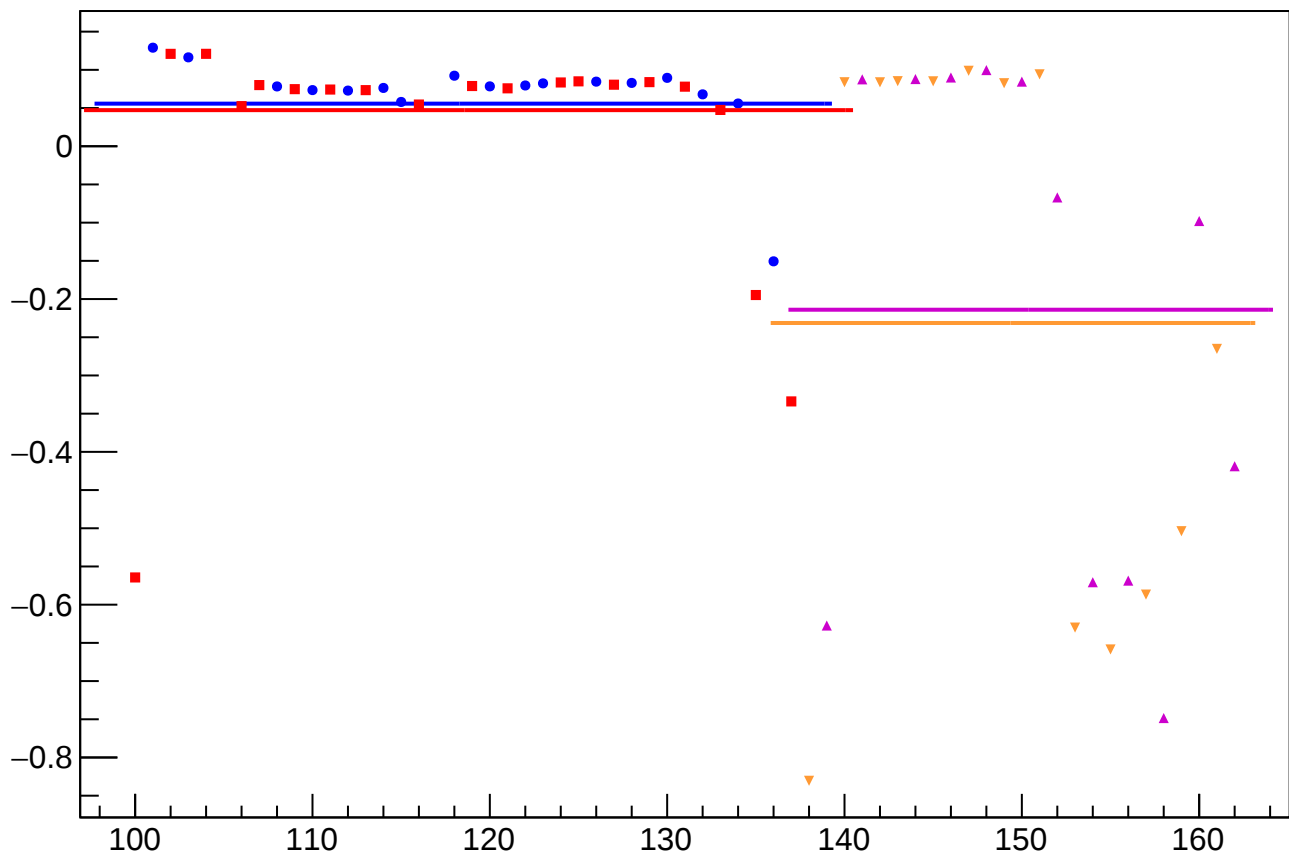
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF : 339758.9/28

Out: 0.002+/-0.000 χ^2/NDF : 319434.2/31

All: 0.002+/-0.000 χ^2/NDF : 659485.4/60

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000 χ^2/NDF : 423003688.1/16

Left Out: -0.231+/-0.000 χ^2/NDF : 8395107172.7/12

Right Out: 0.047+/-0.000 χ^2/NDF : 819588537.2/18

Left In: -0.214+/-0.000 χ^2/NDF : 7300922053.5/11

Left: -0.223+/-0.000 χ^2/NDF : 15706623779.8/24

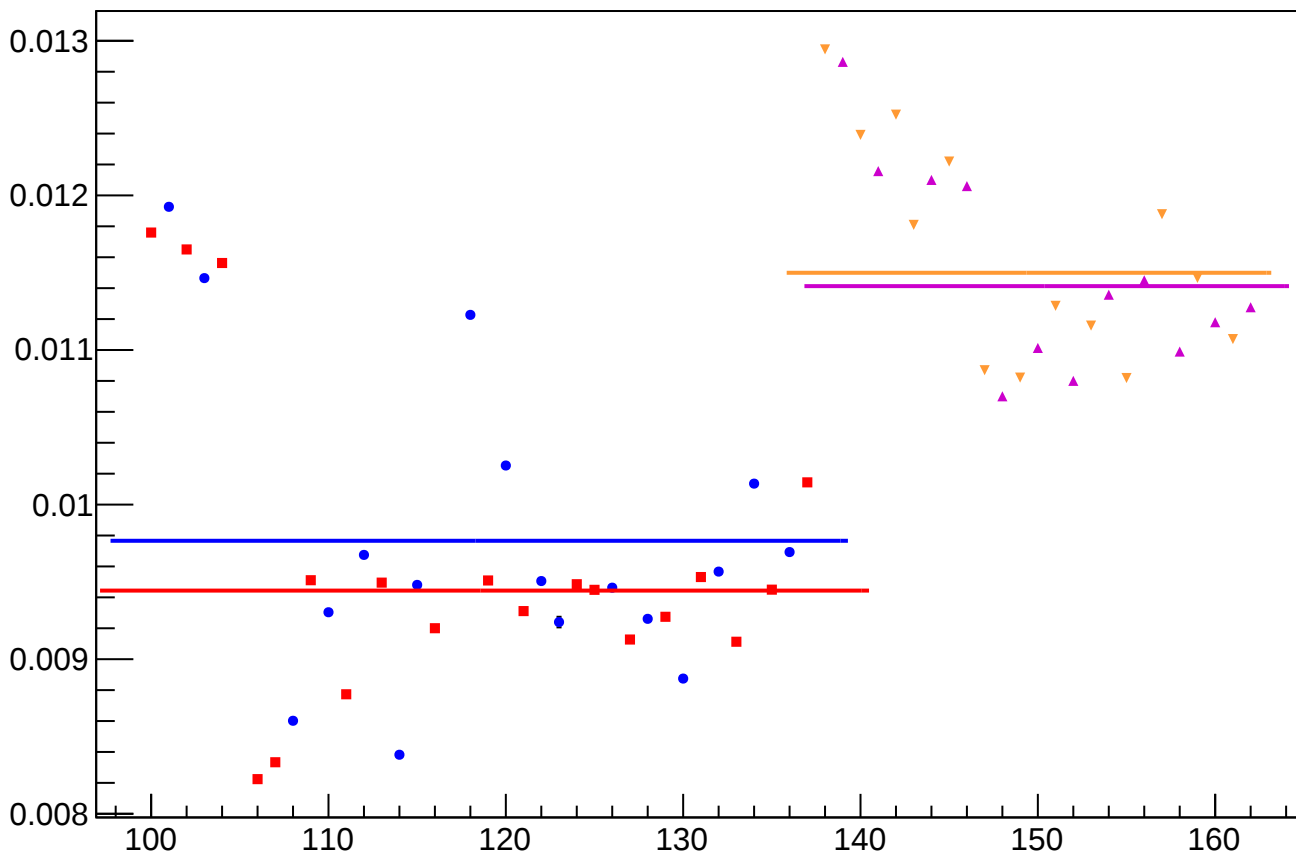
Right: 0.051+/-0.000 χ^2/NDF : 1245197626.4/35

In: -0.082+/-0.000 χ^2/NDF : 10236283776.7/28

Out: -0.085+/-0.000 χ^2/NDF : 12064474192.3/31

All: -0.084+/-0.000 χ^2/NDF : 22301256199.6/67

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 58638.9/12

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 49515.9/11

Left: 0.011+/-0.000 χ^2/NDF : 108679.3/24

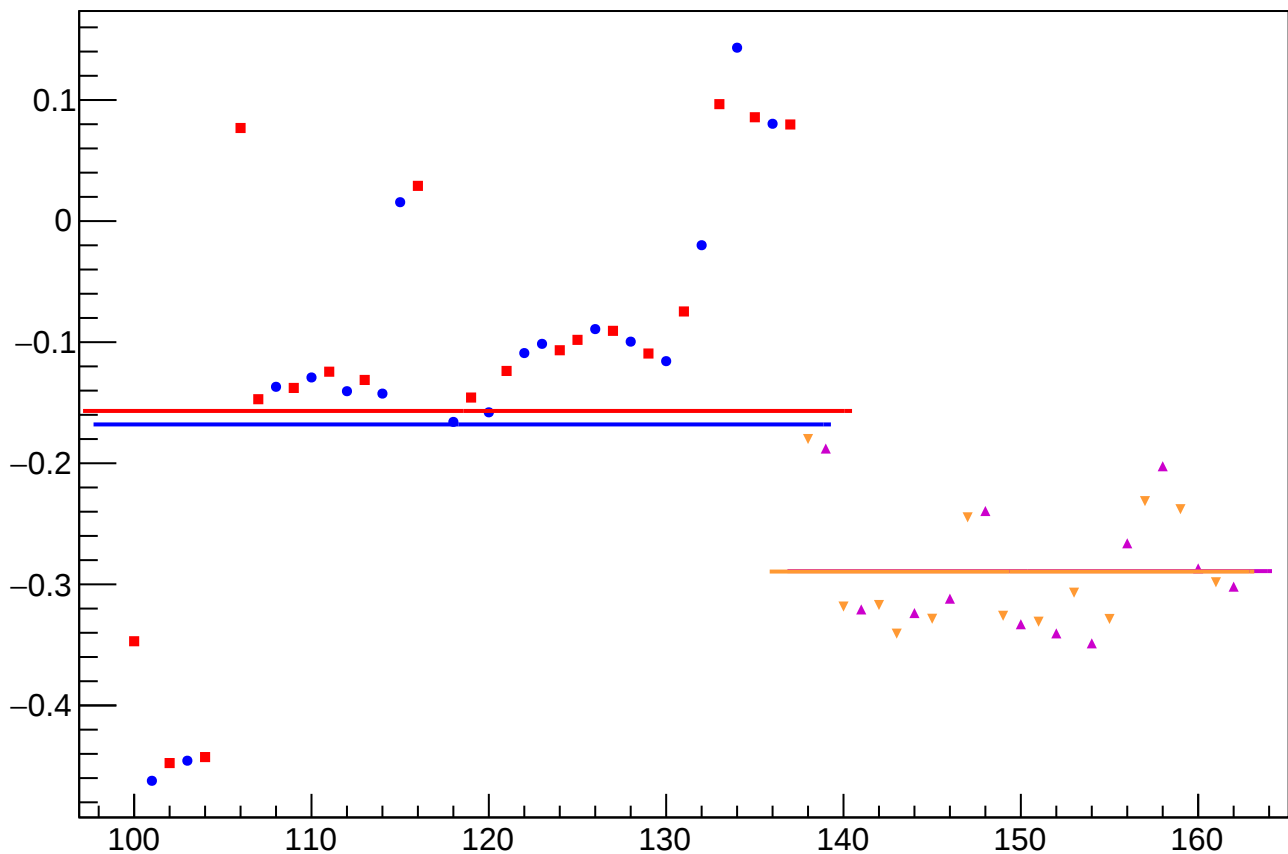
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 353570.1/28

Out: 0.010+/-0.000 χ^2/NDF : 479722.5/31

All: 0.011+/-0.000 χ^2/NDF : 838426.5/60

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168 ± 0.000 $\chi^2/\text{NDF}: 12331812610.6/16$

Left Out: -0.289 ± 0.000 $\chi^2/\text{NDF}: 2666721682.1/12$

Right Out: -0.157 ± 0.000 $\chi^2/\text{NDF}: 11026962470.3/18$

Left In: -0.289 ± 0.000 $\chi^2/\text{NDF}: 3052047550.4/11$

Left: -0.289 ± 0.000 $\chi^2/\text{NDF}: 5718842994.8/24$

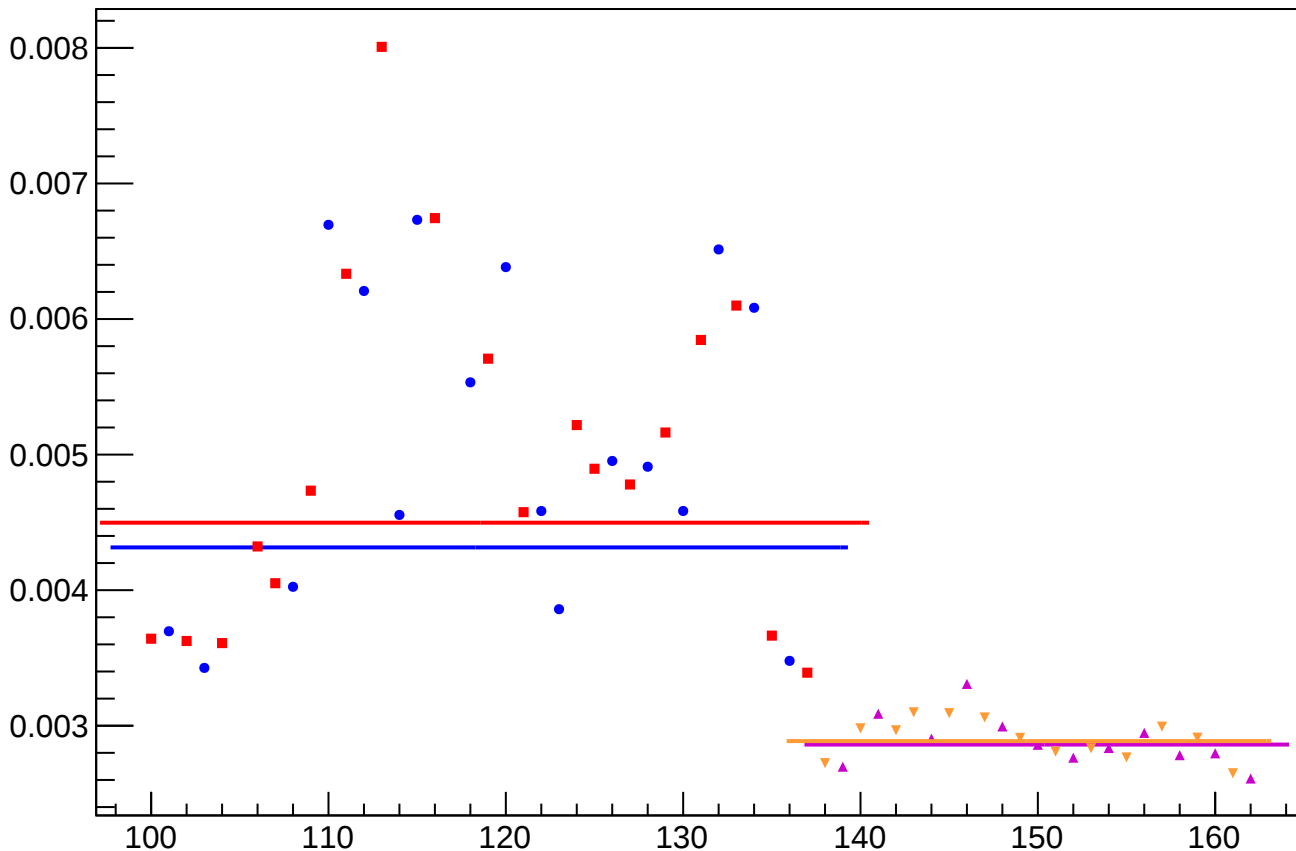
Right: -0.162 ± 0.000 $\chi^2/\text{NDF}: 23377980189.6/35$

In: -0.263 ± 0.000 $\chi^2/\text{NDF}: 18967724837.5/28$

Out: -0.261 ± 0.000 $\chi^2/\text{NDF}: 17927516941.5/31$

All: -0.262 ± 0.000 $\chi^2/\text{NDF}: 36898666194.7/70$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :42921.6/12

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :61951.4/11

Left: 0.003+/-0.000 χ^2/NDF : 105601.0/24

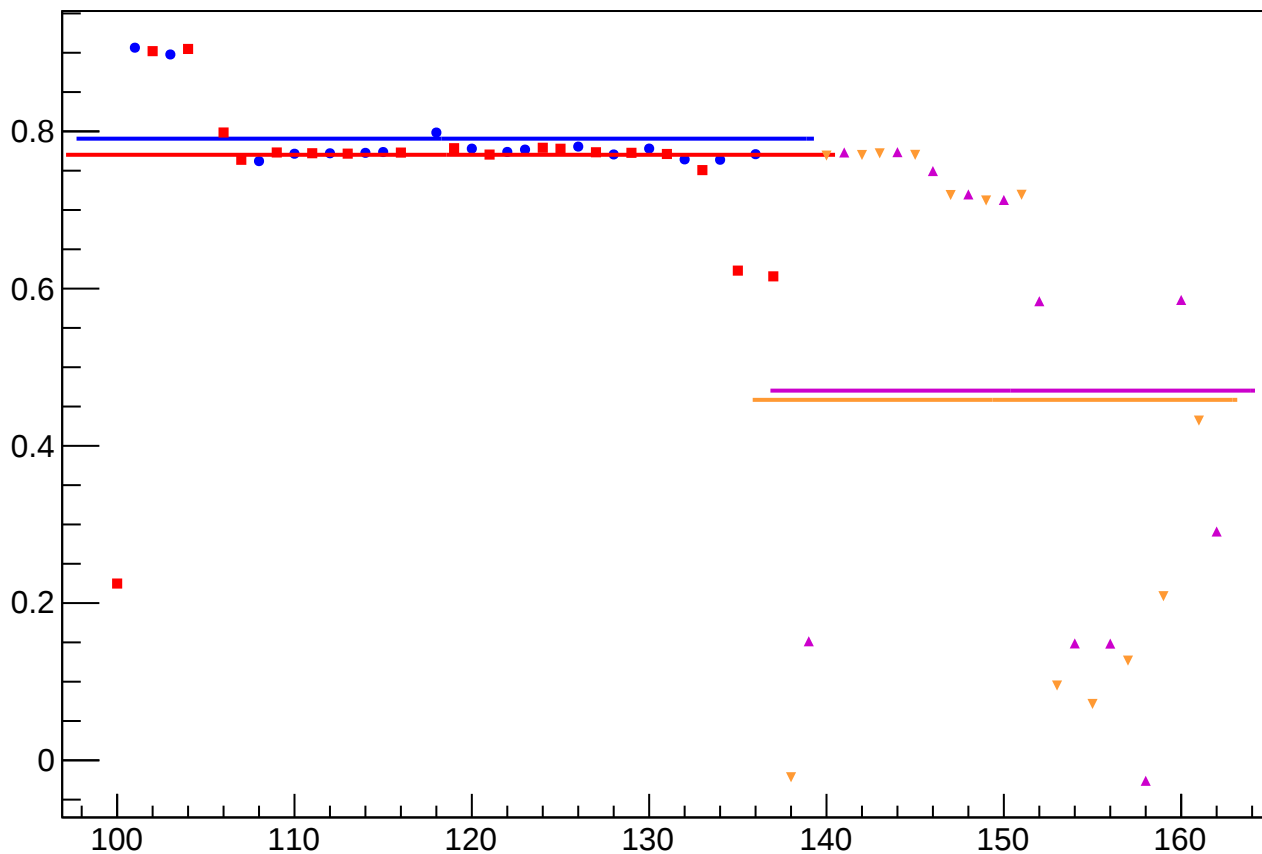
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :1714787.0/28

Out: 0.003+/-0.000 χ^2/NDF :1941911.4/31

All: 0.003+/-0.000 χ^2/NDF : 3661878.6/60

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.458+/-0.000 χ^2/NDF : 6960871978.5/12

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.470+/-0.000 χ^2/NDF : 6197458485.3/11

Left: 0.464+/-0.000 χ^2/NDF : 13163447536.5/24

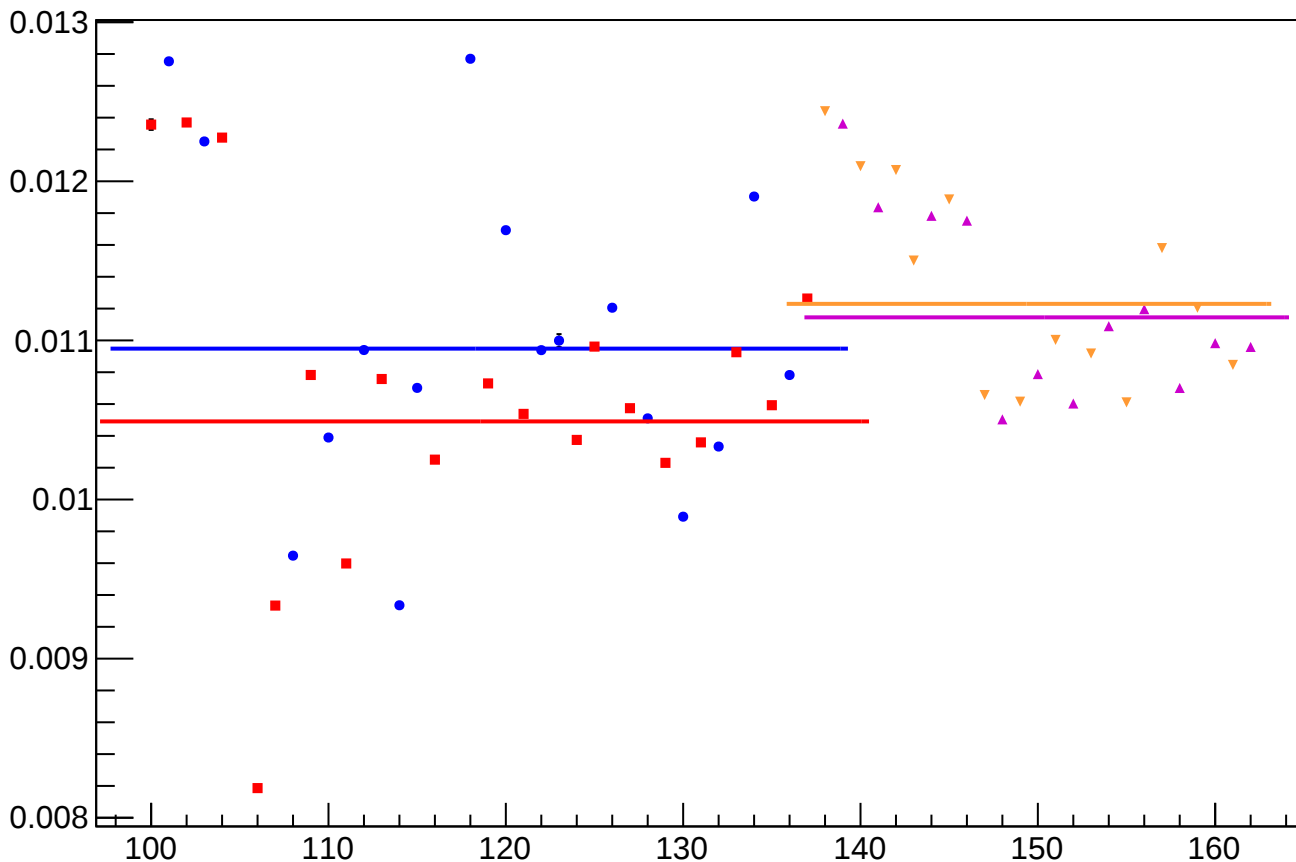
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.604+/-0.000 χ^2/NDF : 9514335952.6/28

Out: 0.602+/-0.000 χ^2/NDF : 10630221392.5/31

All: 0.603+/-0.000 χ^2/NDF : 20145052692.2/6

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98551.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 49581.8/12

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 119420.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 42411.9/11

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 92527.4/24

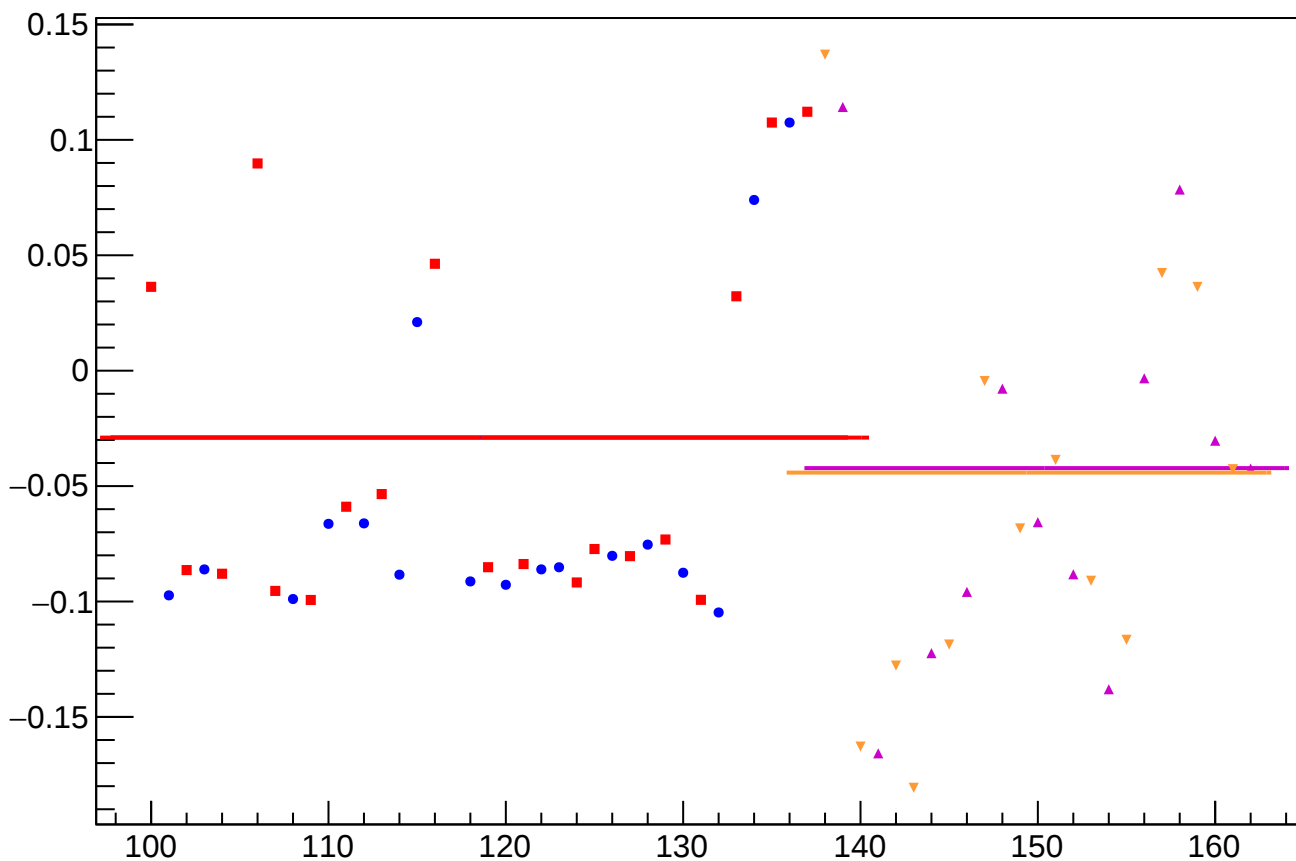
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 230086.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 143377.2/28

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 206007.4/31

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 353311.4/60

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.043+/-0.000

χ^2/NDF : 12420619093.8/24

Left Out: -0.044+/-0.000

χ^2/NDF : 6595918923.1/12

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.039+/-0.000

χ^2/NDF : 8309263756.5/28

Out: -0.040+/-0.000

χ^2/NDF : 8759830068.9/31

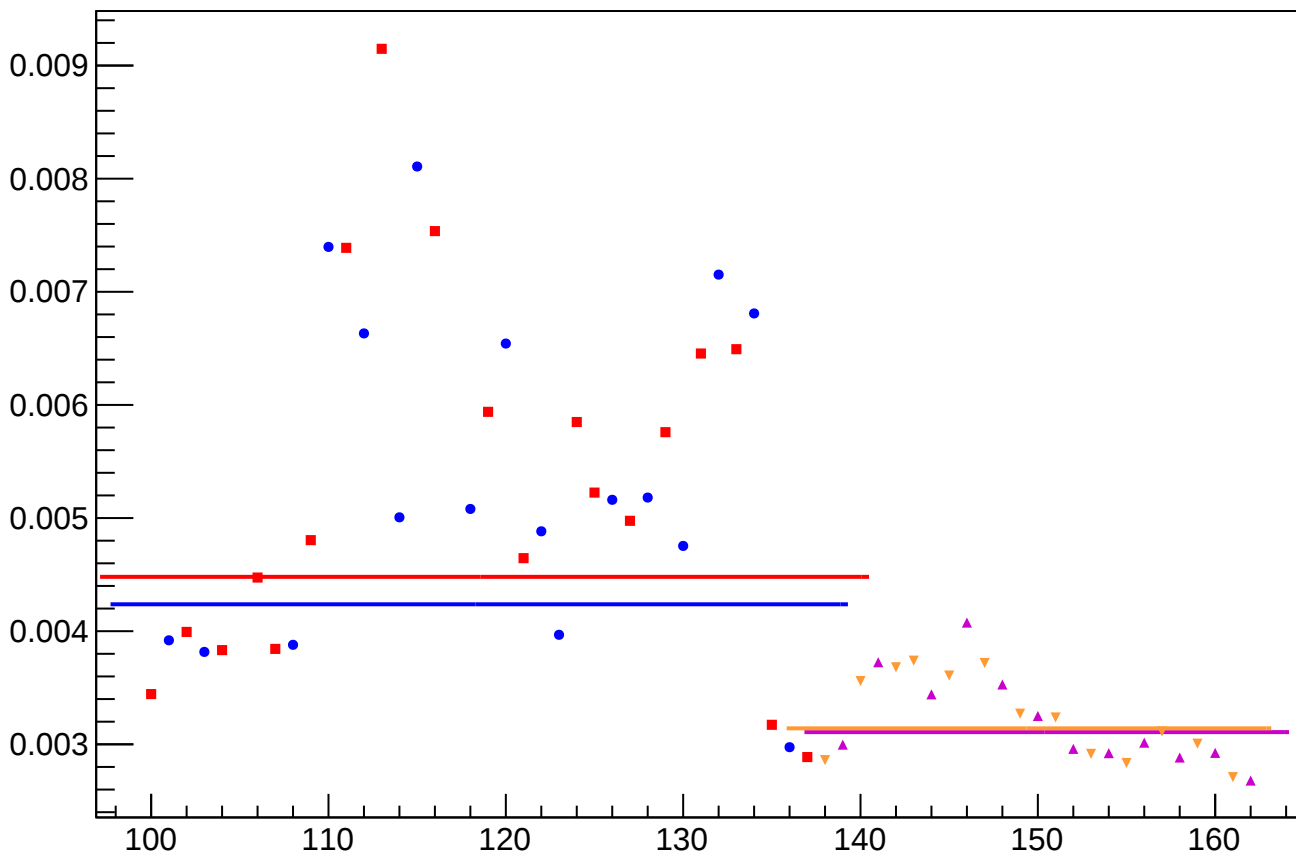
Left In: -0.042+/-0.000

χ^2/NDF : 5822976727.0/11

All: -0.040+/-0.000

χ^2/NDF : 17070529886.8/160

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF :208337.3/12

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF :223472.2/11

Left: 0.003+/-0.000 χ^2/NDF : 432820.7/24

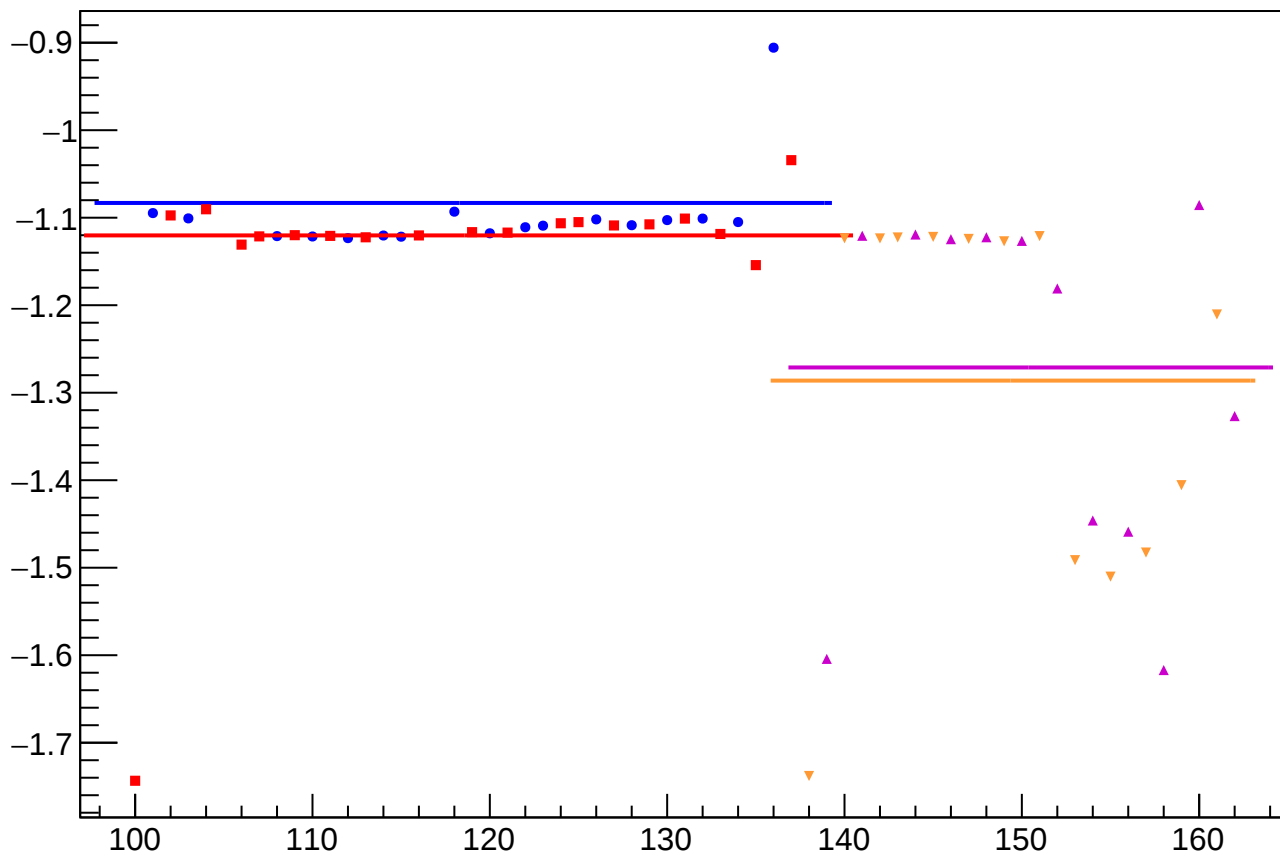
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF :1690065.0/28

Out: 0.003+/-0.000 χ^2/NDF :1982596.1/31

All: 0.003+/-0.000 χ^2/NDF : 3680290.6/60

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.286+/-0.000 χ^2/NDF : 3551759328.9/12

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.271+/-0.000 χ^2/NDF : 3353563178.0/11

Left: -1.279+/-0.000 χ^2/NDF : 6915712345.5/24

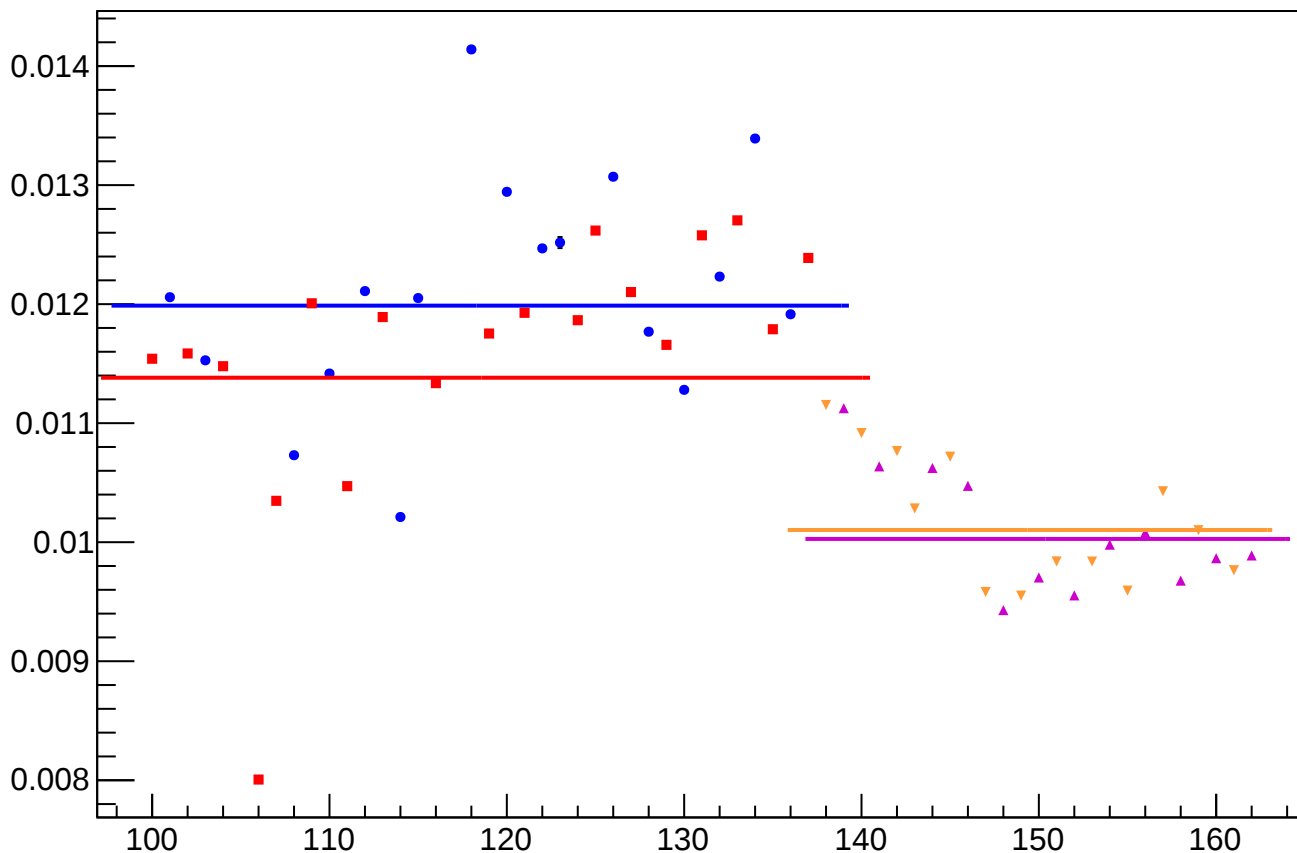
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.210+/-0.000 χ^2/NDF : 4624031569.2/28

Out: -1.225+/-0.000 χ^2/NDF : 4695289632.6/31

All: -1.218+/-0.000 χ^2/NDF : 9336428608.1/6

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:48390.0/12

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:41138.4/11

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 90051.0/24

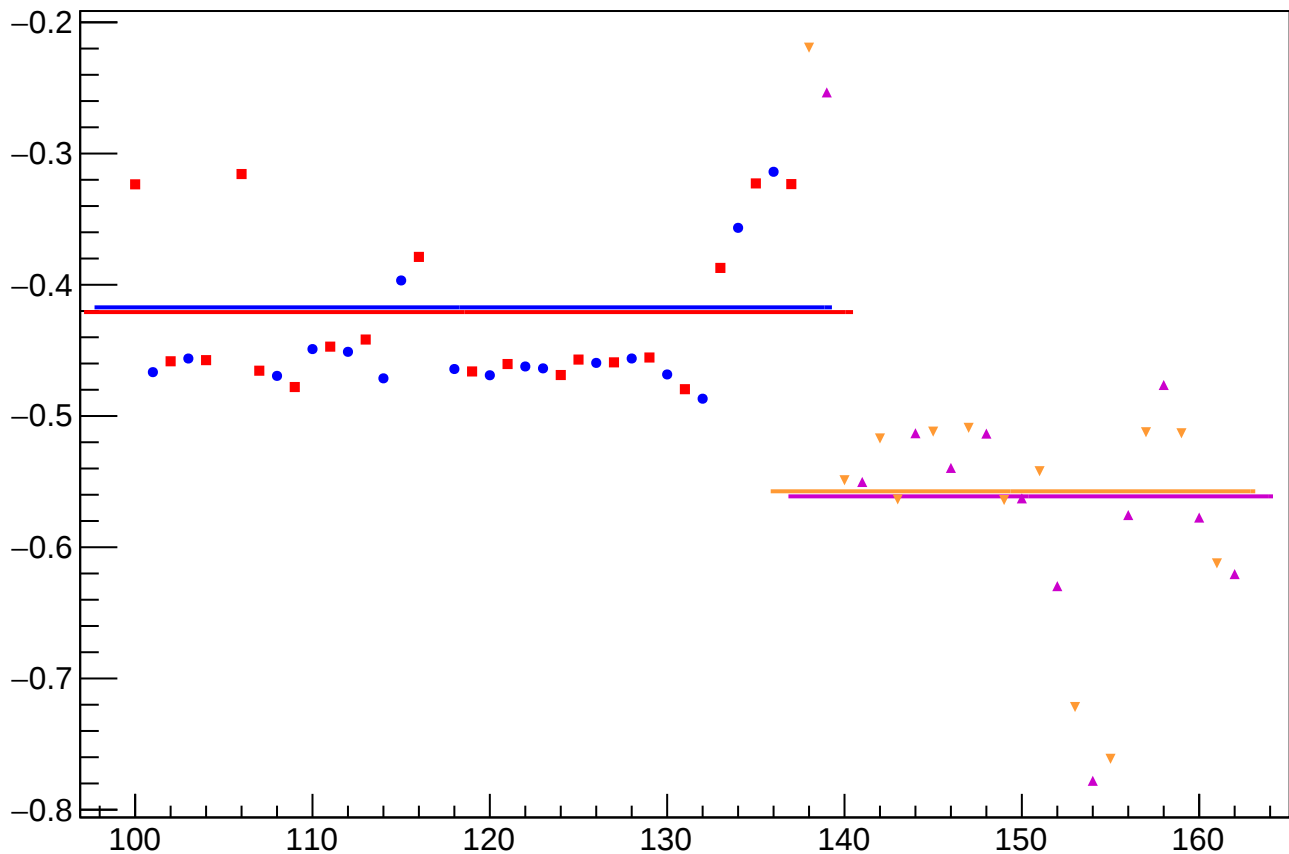
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:333596.4/28

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:312626.0/31

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 647506.2/60

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.557+/-0.000 χ^2/NDF : 12848962787.3/12

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.561+/-0.000 χ^2/NDF : 10292006112.9/11

Left: -0.559+/-0.000 χ^2/NDF : 23146504518.0/24

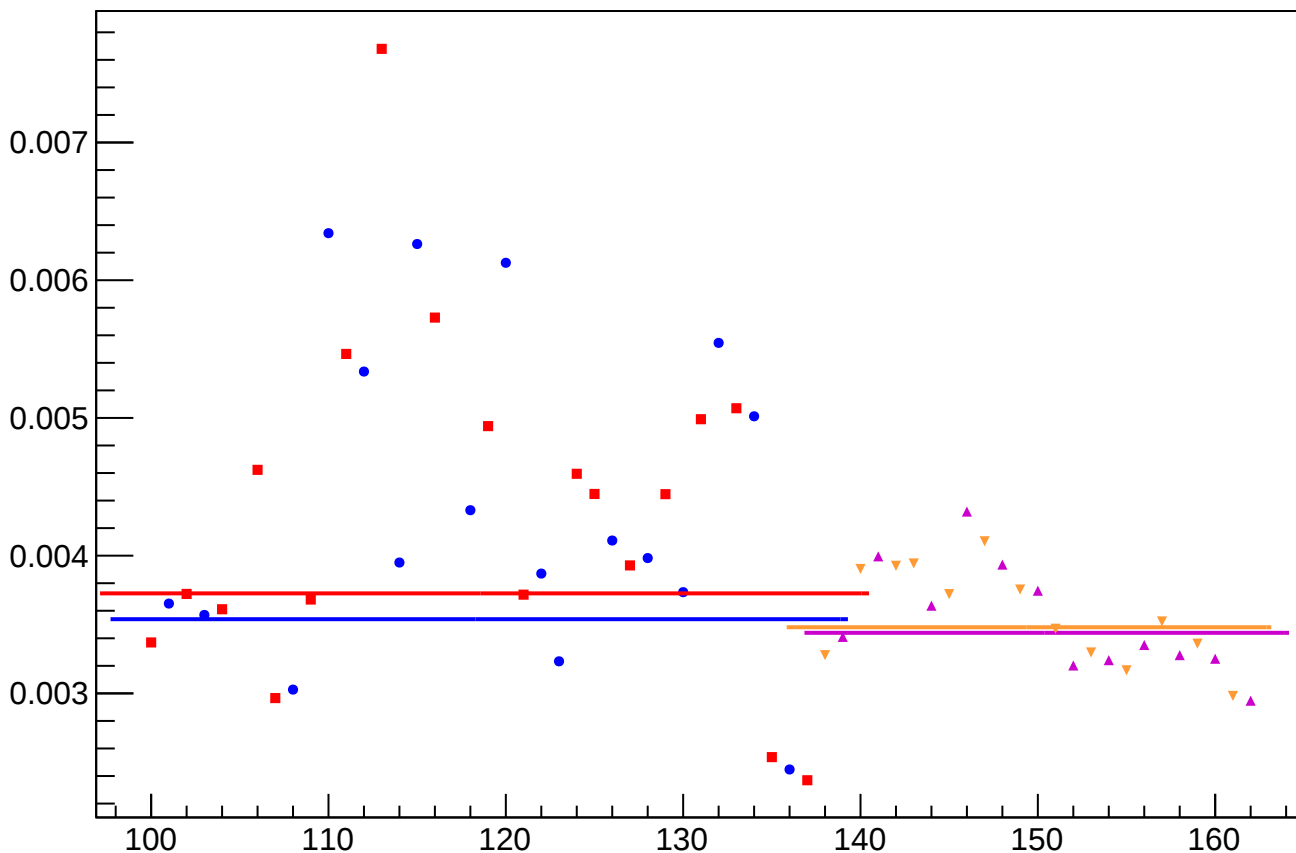
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.508+/-0.000 χ^2/NDF : 18044107587.9/28

Out: -0.508+/-0.000 χ^2/NDF : 19497141669.7/31

All: -0.508+/-0.000 χ^2/NDF : 37541706917.0/70

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 836154.0/16

Left Out: 0.003+/-0.000 χ^2/NDF :158852.0/12

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF :189357.2/11

Left: 0.003+/-0.000 χ^2/NDF : 349426.5/24

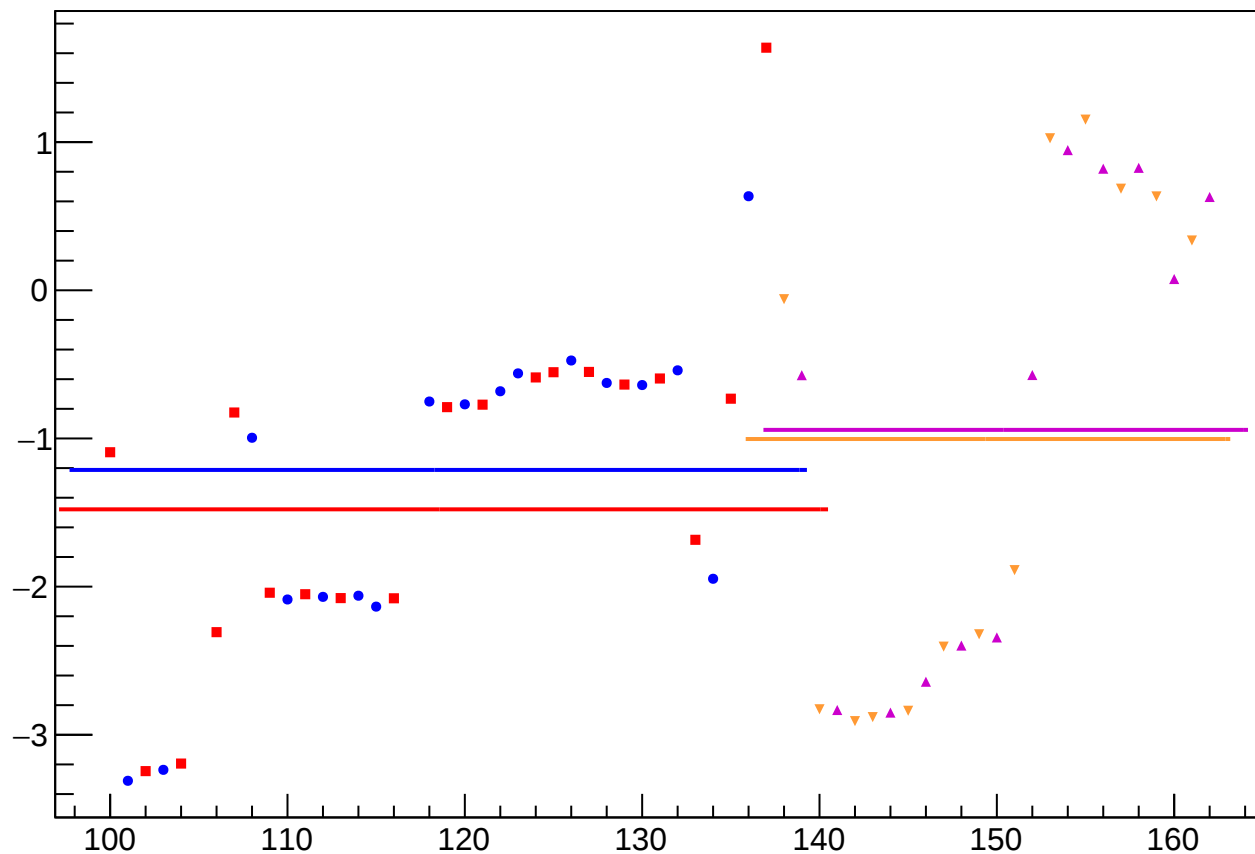
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF :1030895.9/28

Out: 0.004+/-0.000 χ^2/NDF :1089741.8/31

All: 0.004+/-0.000 χ^2/NDF : 2130965.7/60

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.004 $\pm$ 0.000 χ^2/NDF : 4467809453.4/12

Right Out: -1.478 $\pm$ 0.000 χ^2/NDF : 1578264383.8/18

Left In: -0.942 $\pm$ 0.000 χ^2/NDF : 3901706880.7/11

Left: -0.973 $\pm$ 0.000 χ^2/NDF : 8372693259.6/24

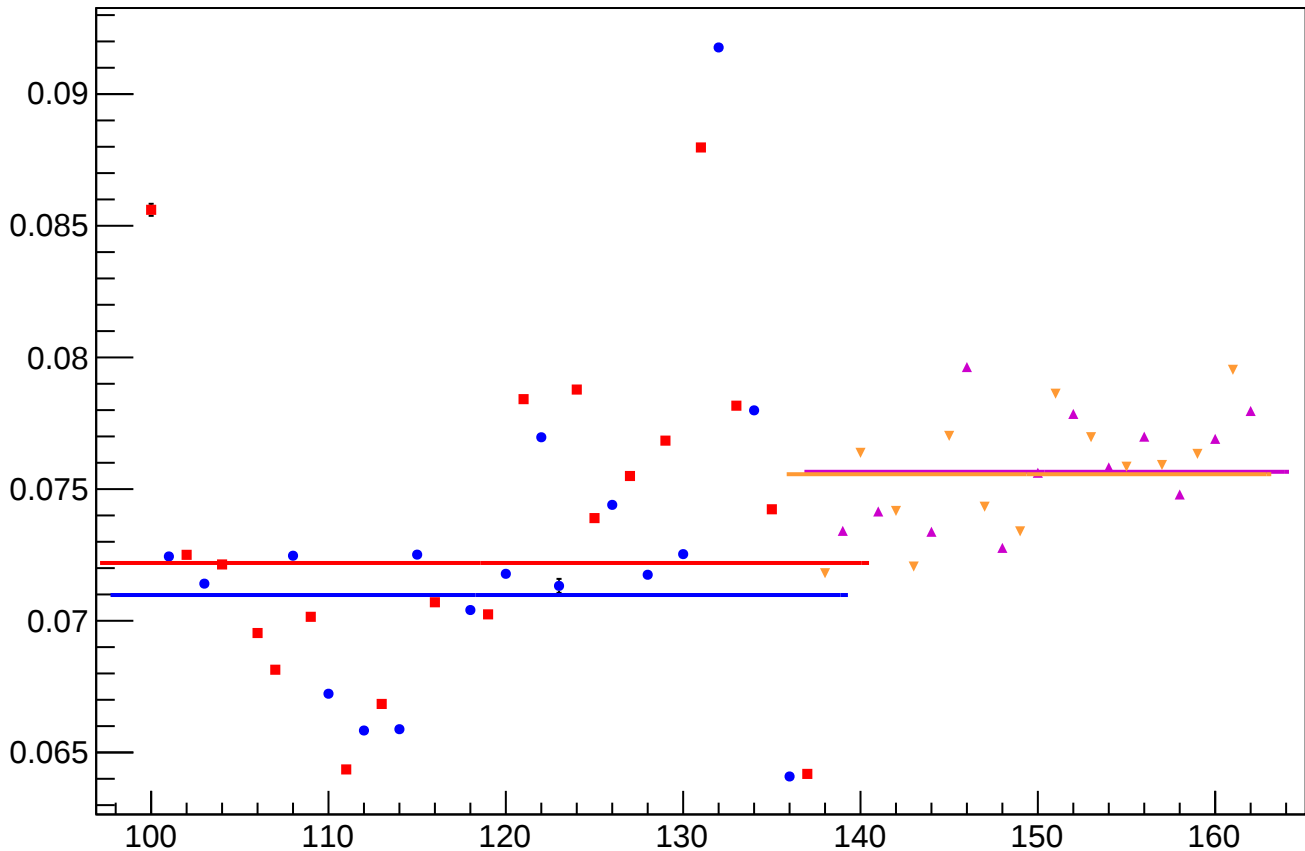
Right: -1.347 $\pm$ 0.000 χ^2/NDF : 3617796481.7/35

In: -1.061 $\pm$ 0.000 χ^2/NDF : 5947943107.5/28

Out: -1.214 $\pm$ 0.000 χ^2/NDF : 6213431807.9/31

All: -1.138 $\pm$ 0.000 χ^2/NDF : 12196418636.8/31

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071 ± 0.000 χ^2/NDF : 77589.5/16

Left Out: 0.076 ± 0.000 χ^2/NDF : 16870.8/12

Right Out: 0.072 ± 0.000 χ^2/NDF : 73228.9/18

Left In: 0.076 ± 0.000 χ^2/NDF : 13446.2/11

Left: 0.076 ± 0.000 χ^2/NDF : 30330.9/24

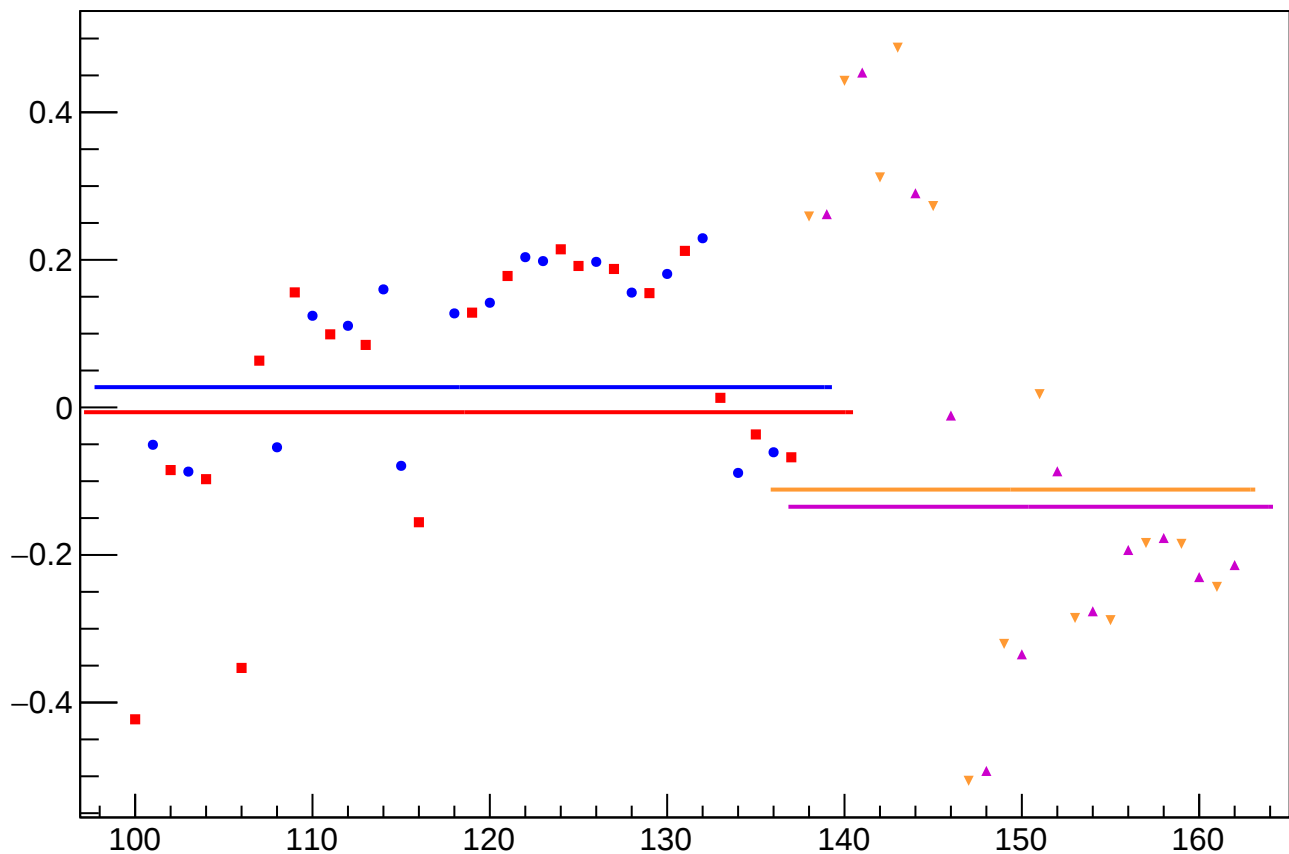
Right: 0.072 ± 0.000 χ^2/NDF : 152771.2/35

In: 0.074 ± 0.000 χ^2/NDF : 123008.6/28

Out: 0.074 ± 0.000 χ^2/NDF : 106981.1/31

All: 0.074 ± 0.000 χ^2/NDF : 230658.7/60

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 562337631.4/16

Left Out: -0.111+/-0.000 χ^2/NDF : 13482264999.3/12

Right Out: -0.007+/-0.000 χ^2/NDF : 1199278894.0/18

Left In: -0.135+/-0.000 χ^2/NDF : 10196990739.6/11

Left: -0.123+/-0.000 χ^2/NDF : 23733191180.5/24

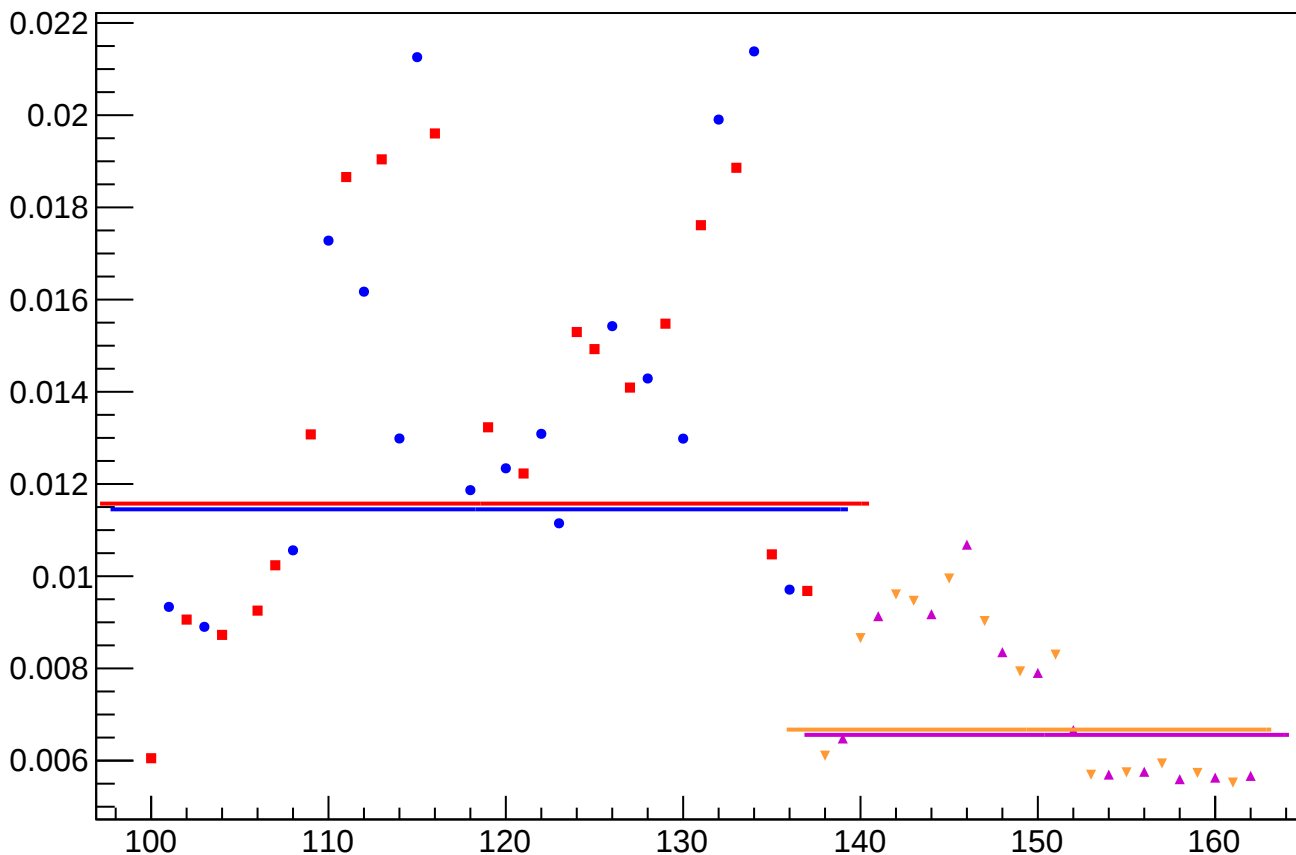
Right: 0.010+/-0.000 χ^2/NDF : 1787030042.0/35

In: -0.106+/-0.000 χ^2/NDF : 11706765111.1/28

Out: -0.092+/-0.000 χ^2/NDF : 15078485986.0/31

All: -0.099+/-0.000 χ^2/NDF : 26808698181.2/64

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :813817.8/12

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :754618.4/11

Left: 0.007+/-0.000 χ^2/NDF : 1571023.8/24

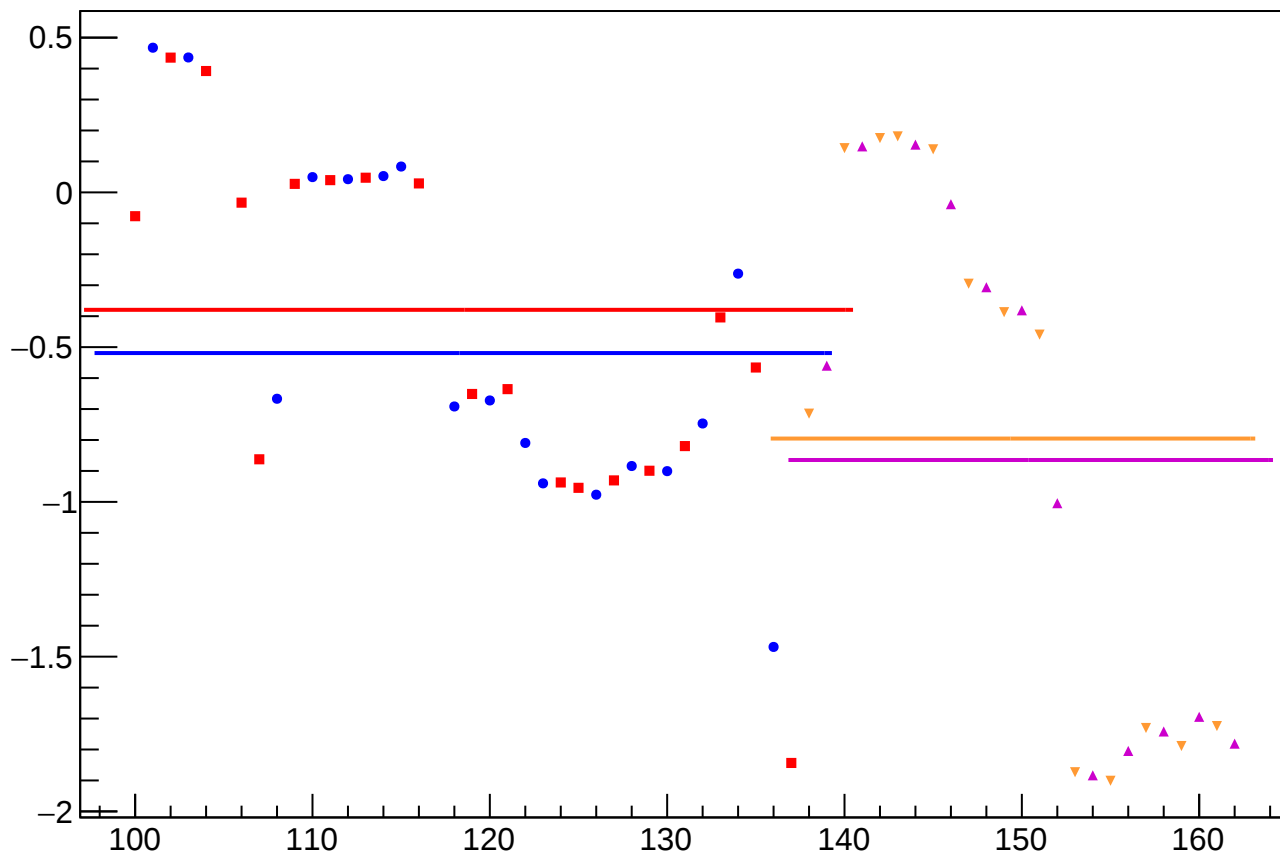
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3159585.1/28

Out: 0.008+/-0.000 χ^2/NDF :3545687.1/31

All: 0.008+/-0.000 χ^2/NDF : 6710891.6/60

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.795+/-0.000 χ^2/NDF : 868323506.7/12

Right Out: -0.379+/-0.000 χ^2/NDF : 268621179.0/18

Left In: -0.865+/-0.000 χ^2/NDF : 792939650.4/11

Left: -0.830+/-0.000 χ^2/NDF : 1664250982.5/24

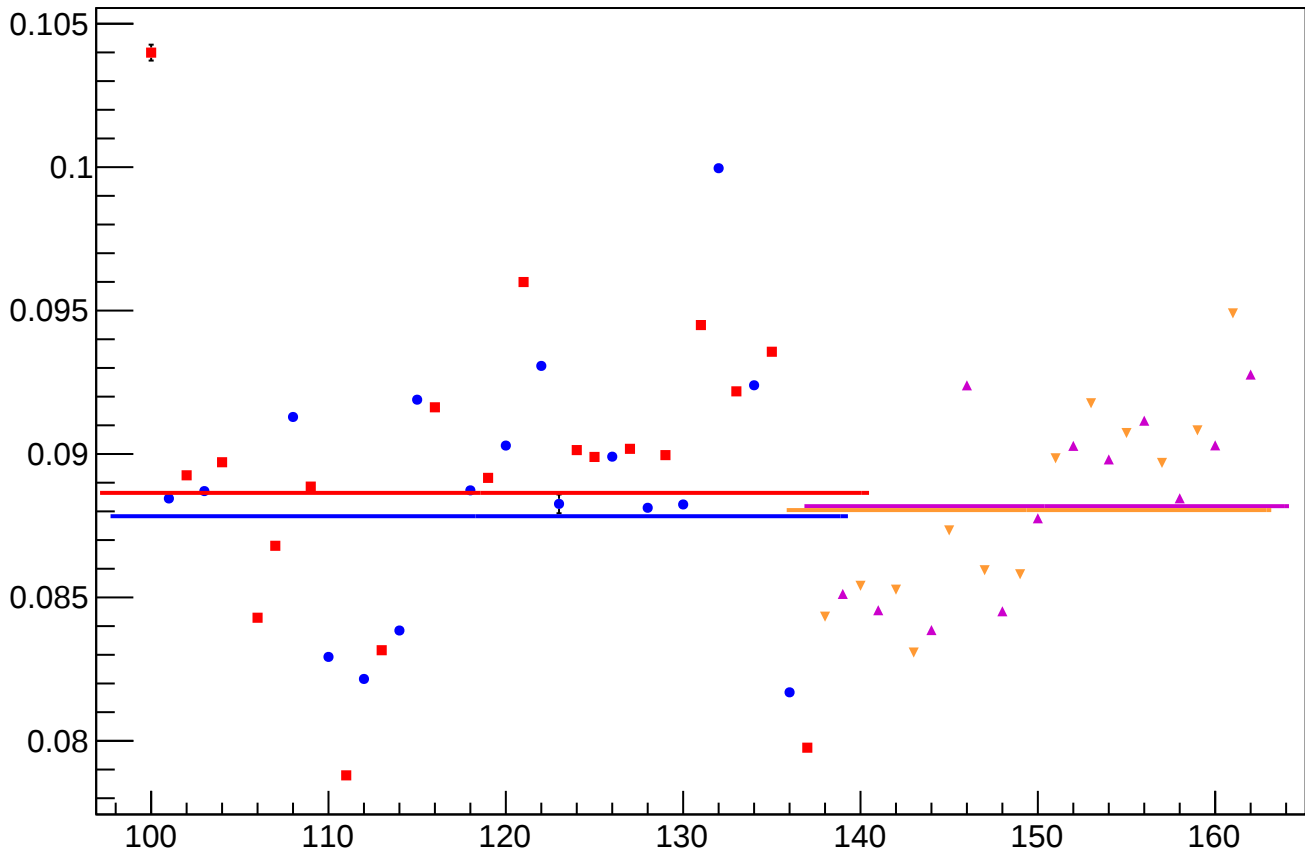
Right: -0.448+/-0.000 χ^2/NDF : 616632603.2/35

In: -0.722+/-0.000 χ^2/NDF : 1193175337.2/28

Out: -0.621+/-0.000 χ^2/NDF : 1227644073.1/31

All: -0.671+/-0.000 χ^2/NDF : 2431743495.0/6

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34954.4/16

Left Out: 0.088 $\pm$ 0.000 χ^2 /NDF:27009.4/12

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 39722.9/18

Left In: 0.088 $\pm$ 0.000 χ^2 /NDF:23392.6/11

Left: 0.088 $\pm$ 0.000 χ^2 /NDF: 50425.3/24

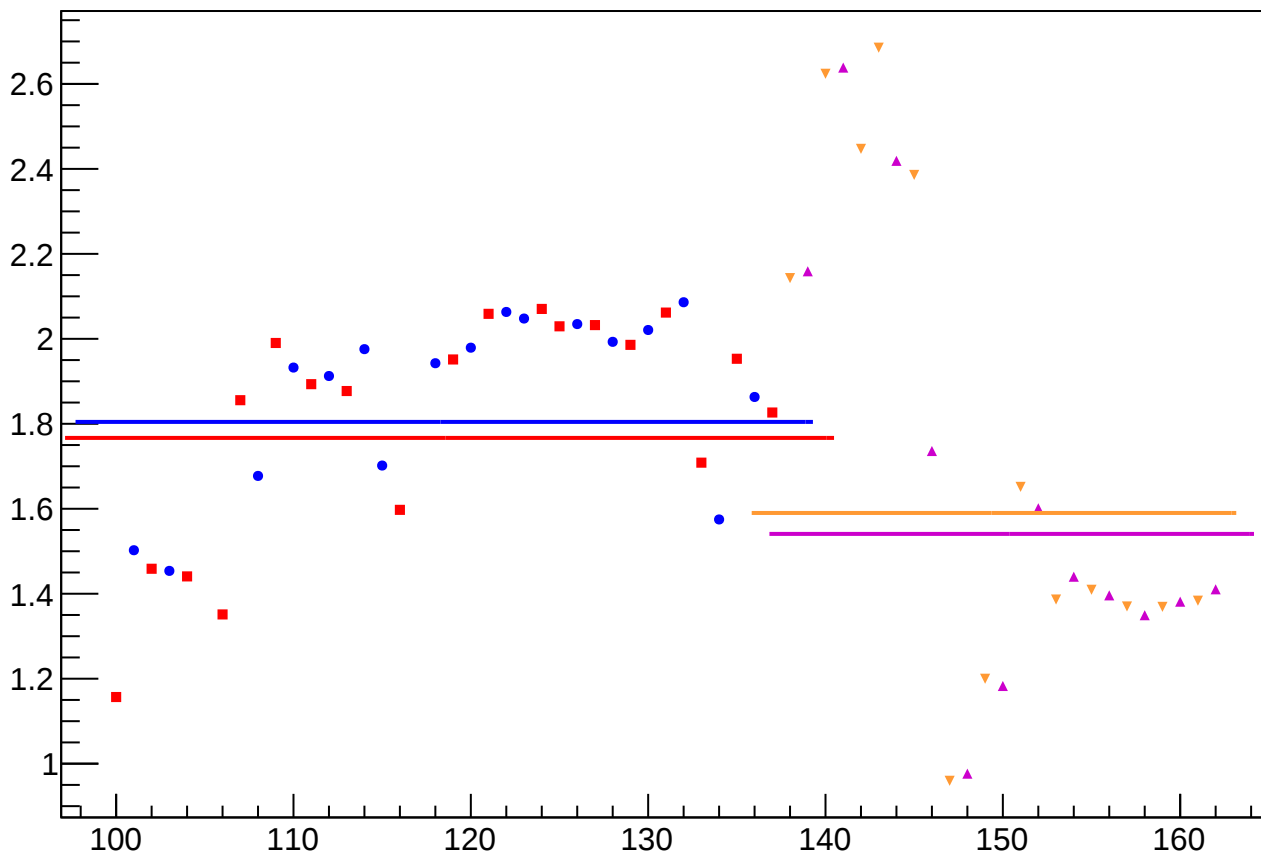
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 75262.5/35

In: 0.088 $\pm$ 0.000 χ^2 /NDF:58472.2/28

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:67109.7/31

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 125724.7/60

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000

χ^2/NDF : 1156747883.2/16

Left: 1.565+/-0.000

χ^2/NDF : 40541433510.6/24

Left Out: 1.590+/-0.000

χ^2/NDF : 22599966123.9/12

Right: 1.786+/-0.000

χ^2/NDF : 2883751688.5/35

Right Out: 1.767+/-0.000

χ^2/NDF : 1709259284.5/18

In: 1.590+/-0.000

χ^2/NDF : 20426045487.9/28

Out: 1.622+/-0.000

χ^2/NDF : 24927726617.8/31

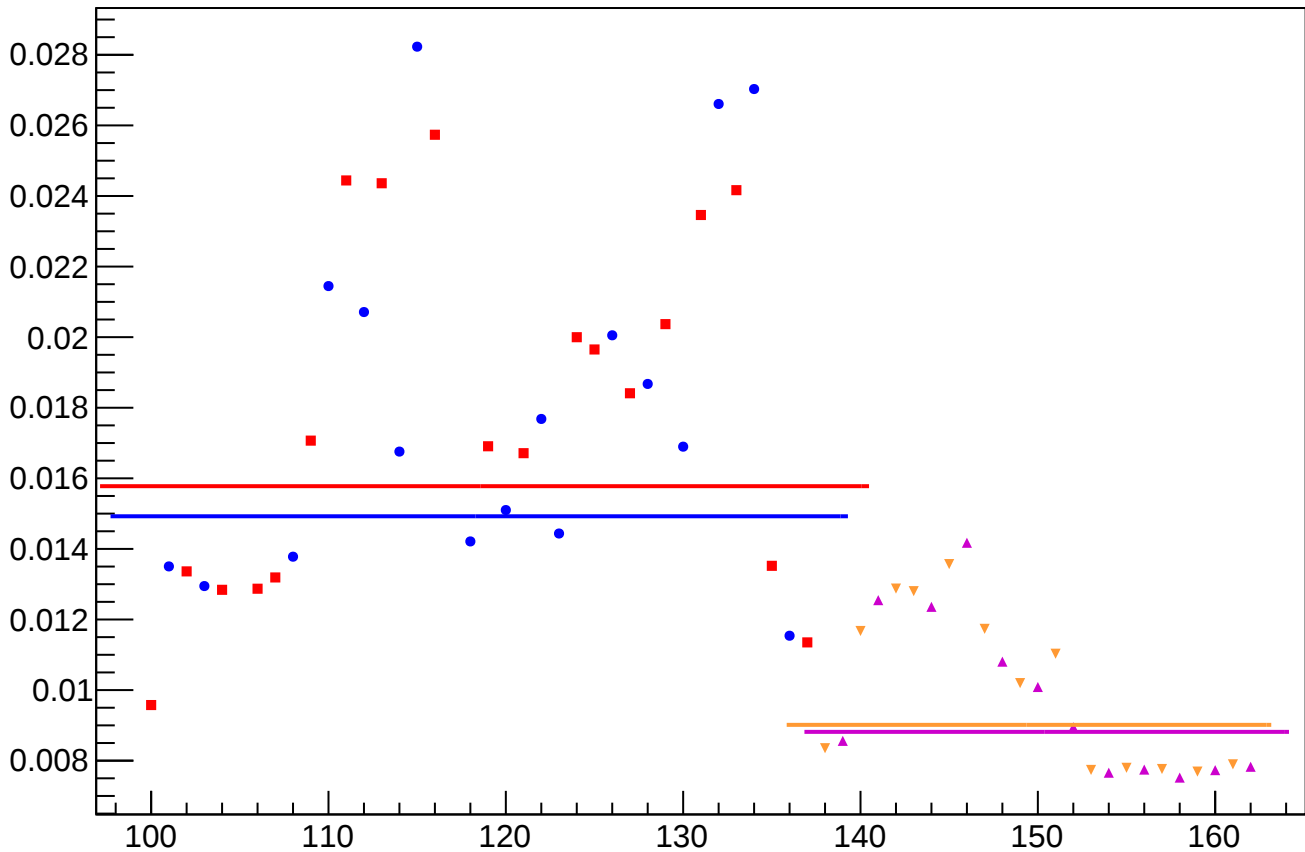
Left In: 1.541+/-0.000

χ^2/NDF : 17806218781.8/11

All: 1.606+/-0.000

χ^2/NDF : 45426973781.9/6

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 751671.5/12

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 701351.8/11

Left: 0.009+/-0.000 χ^2/NDF : 1457416.1/24

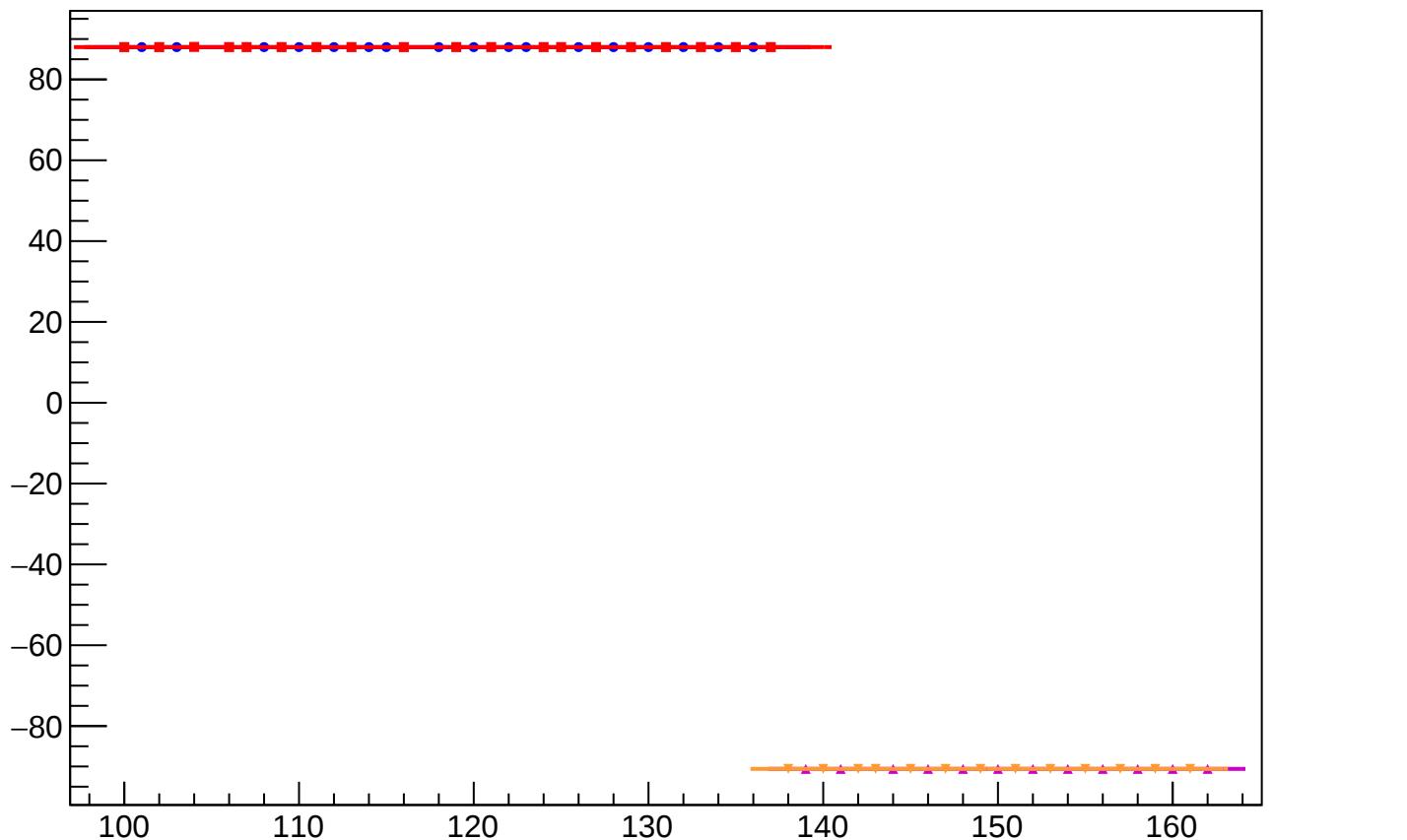
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 2916078.6/28

Out: 0.010+/-0.000 χ^2/NDF : 3350573.8/31

All: 0.010+/-0.000 χ^2/NDF : 6279093.7/60

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2 /NDF: 1852068.7/16

Left Out: -90.599+/-0.000 χ^2 /NDF: 3872360.4/12

Right Out: 88.004+/-0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2 /NDF: 1471597.9/11

Left: -90.599+/-0.000 χ^2 /NDF: 5708879.1/24

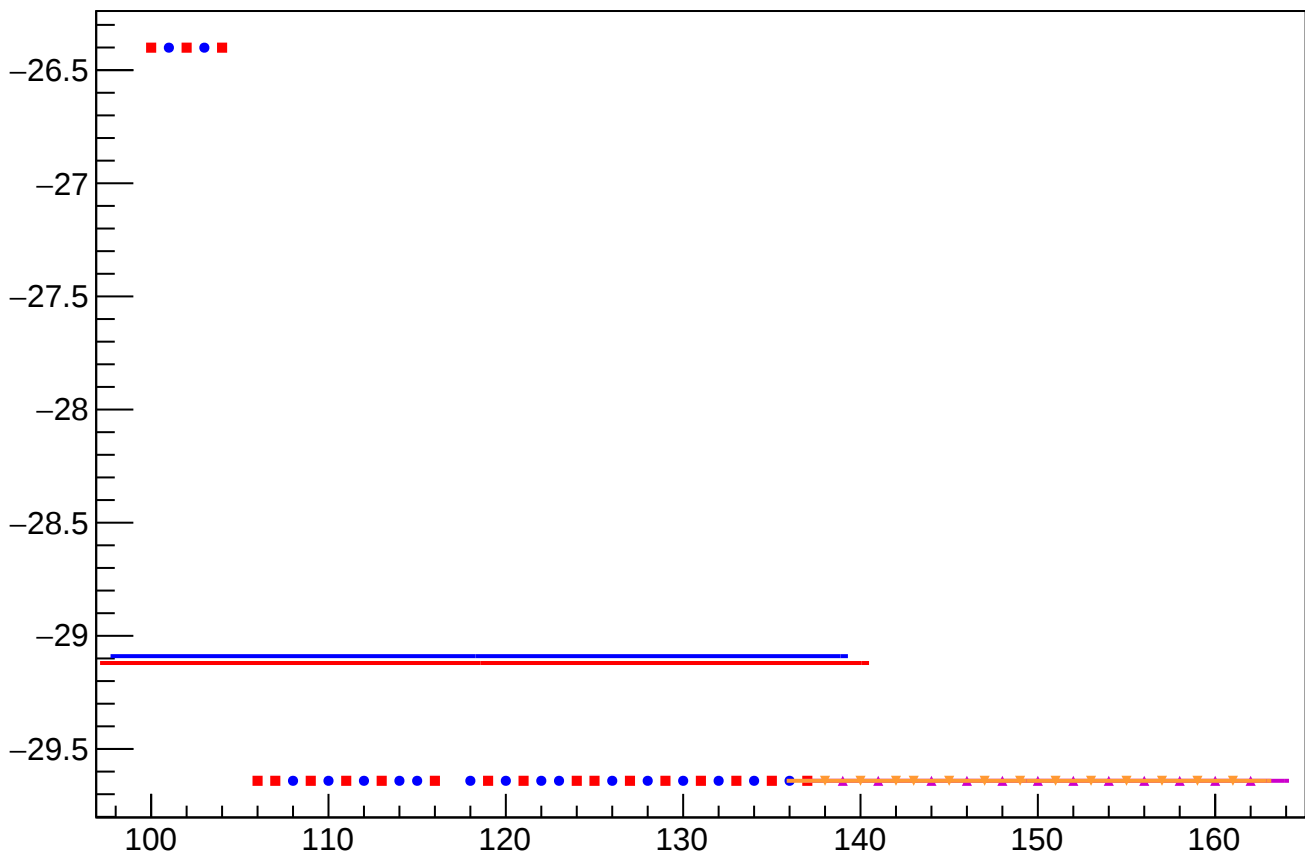
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -17.387+/-0.000 χ^2 /NDF: 13062638544453613

Out: -16.061+/-0.000 χ^2 /NDF: 1341925585492515

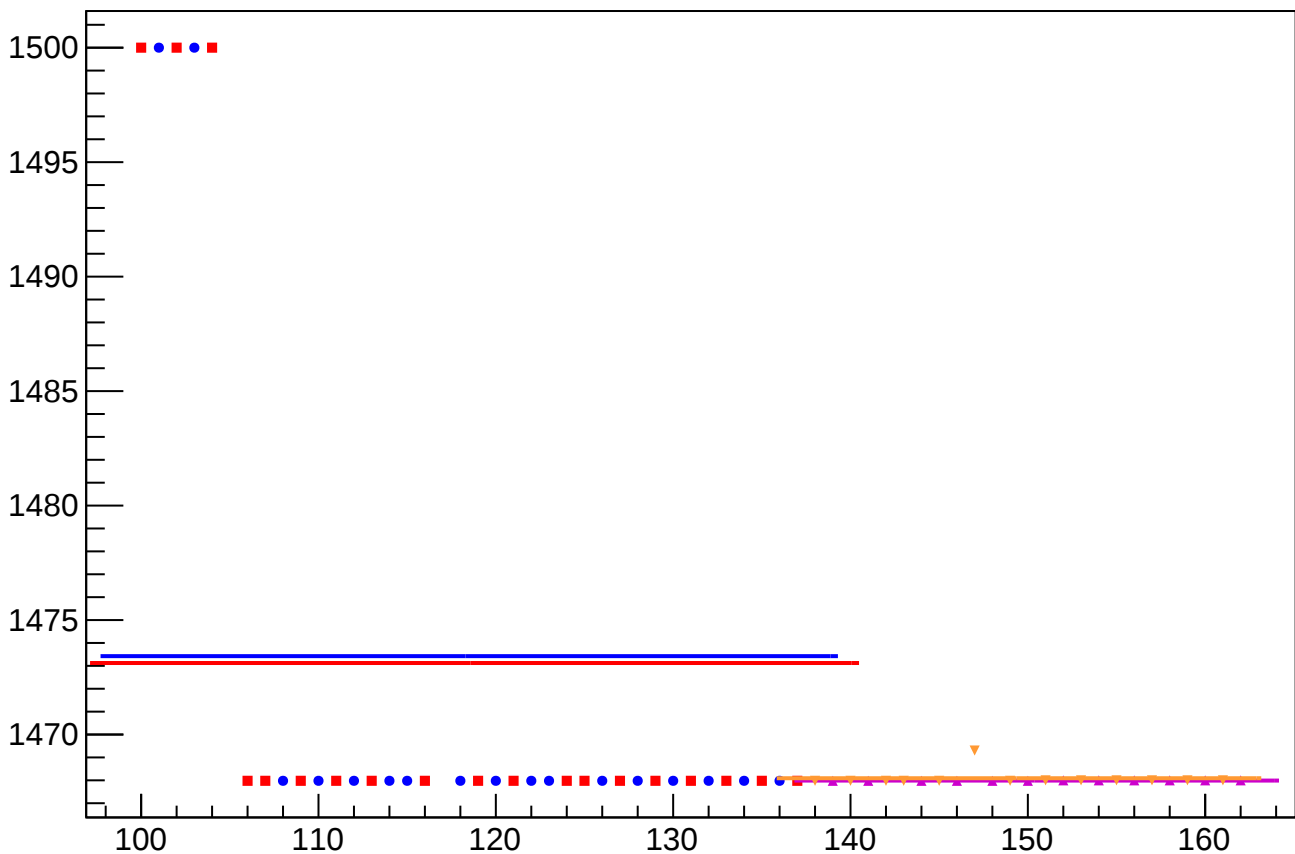
All: -16.717+/-0.000 χ^2 /NDF: 264833989053

epics_HWienAngles_mean vs Slug, Sign Corrected



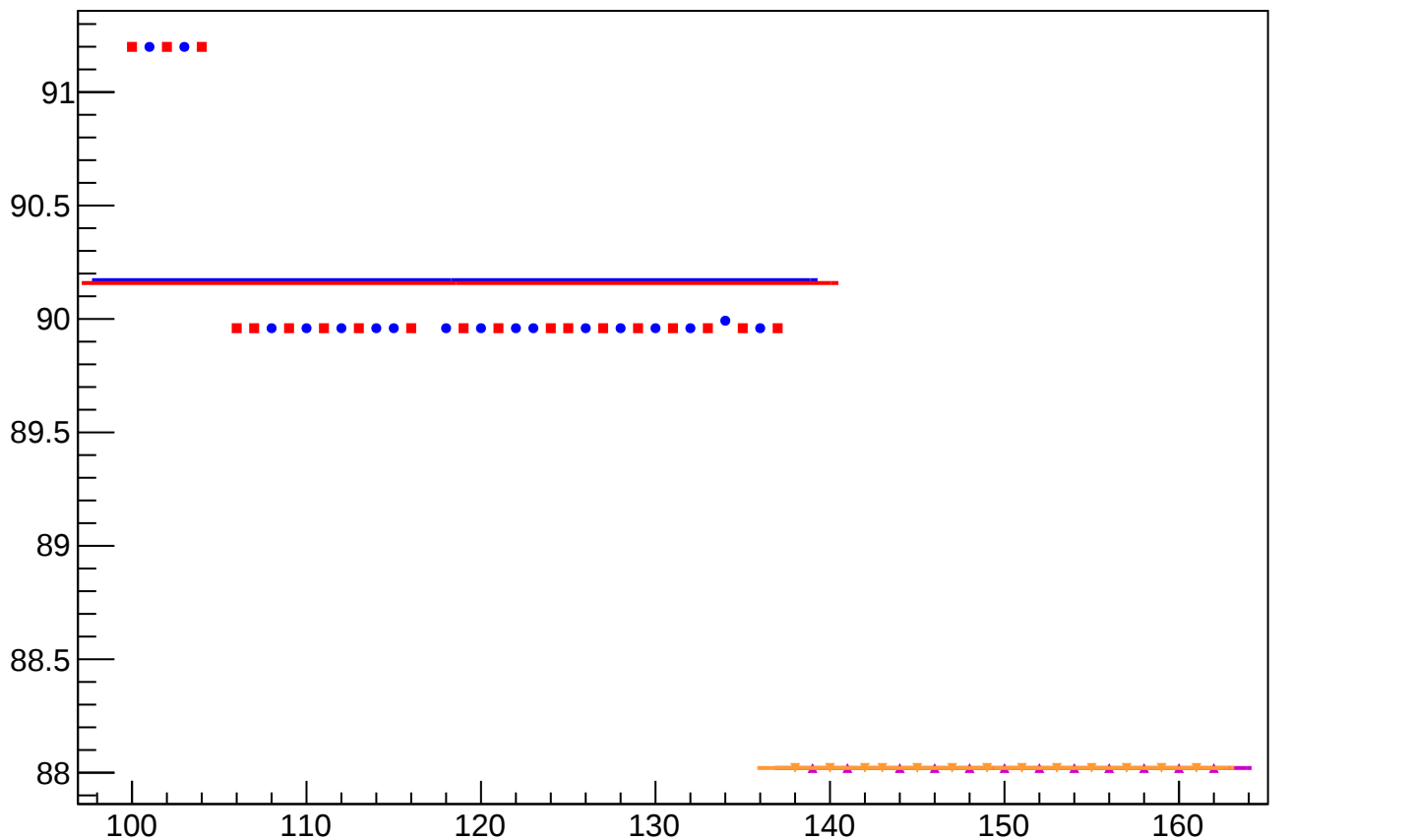
Right In: -29.090+/-0.000	χ^2/NDF : 1028099246109521929793835198578688.0/16	Left: -29.641+/-0.000	χ^2/NDF : 262785.3/24
Left Out: -29.641+/-0.000	χ^2/NDF : 179948.6/12	Right: -29.105+/-0.000	χ^2/NDF : 205050154576273.0
Right Out: -29.120+/-0.000	χ^2/NDF : 1022076578393359839206130891882496.0/18	In: -29.415+/-0.000	χ^2/NDF : 11523797755463566.0
Left In: -29.641+/-0.000	χ^2/NDF : 48328.8/11	Out: -29.423+/-0.000	χ^2/NDF : 1136070903121367.0
		All: -29.419+/-0.000	χ^2/NDF : 228851360140.0

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.091+/-0.000 χ^2/NDF : 123899422189392755615913331392512.0/12
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.989+/-0.000 χ^2/NDF : 99899099071245765713990778880.0/11
 All: 1470.204+/-0.000 χ^2/NDF : 22312849476

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left: 88.021+/-0.000 χ^2/NDF : 5160185.3/24

Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

Left Out: 88.021+/-0.000

χ^2/NDF : 3134642.9/12

In: 88.902+/-0.000 χ^2/NDF : 204404852420341887

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

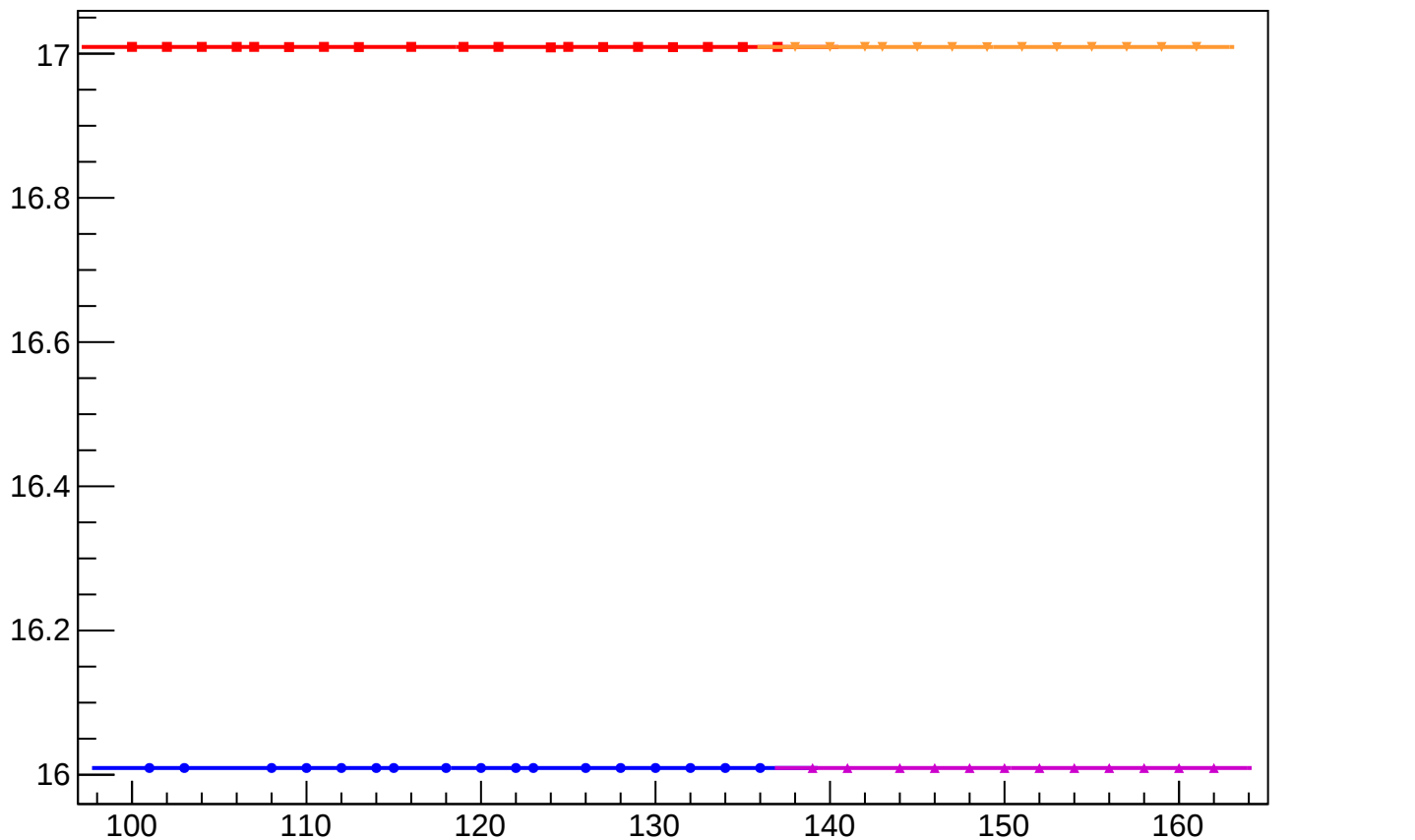
Out: 88.913+/-0.000 χ^2/NDF : 20723237541073948

Left In: 88.021+/-0.000

χ^2/NDF : 1399502.4/11

All: 88.908+/-0.000 χ^2/NDF : 4116470026812

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 11943174513703878800703488.0/12

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 37903.2/11

Left: 16.502 $\pm$ 0.000 χ^2 /NDF: 45877803380461192

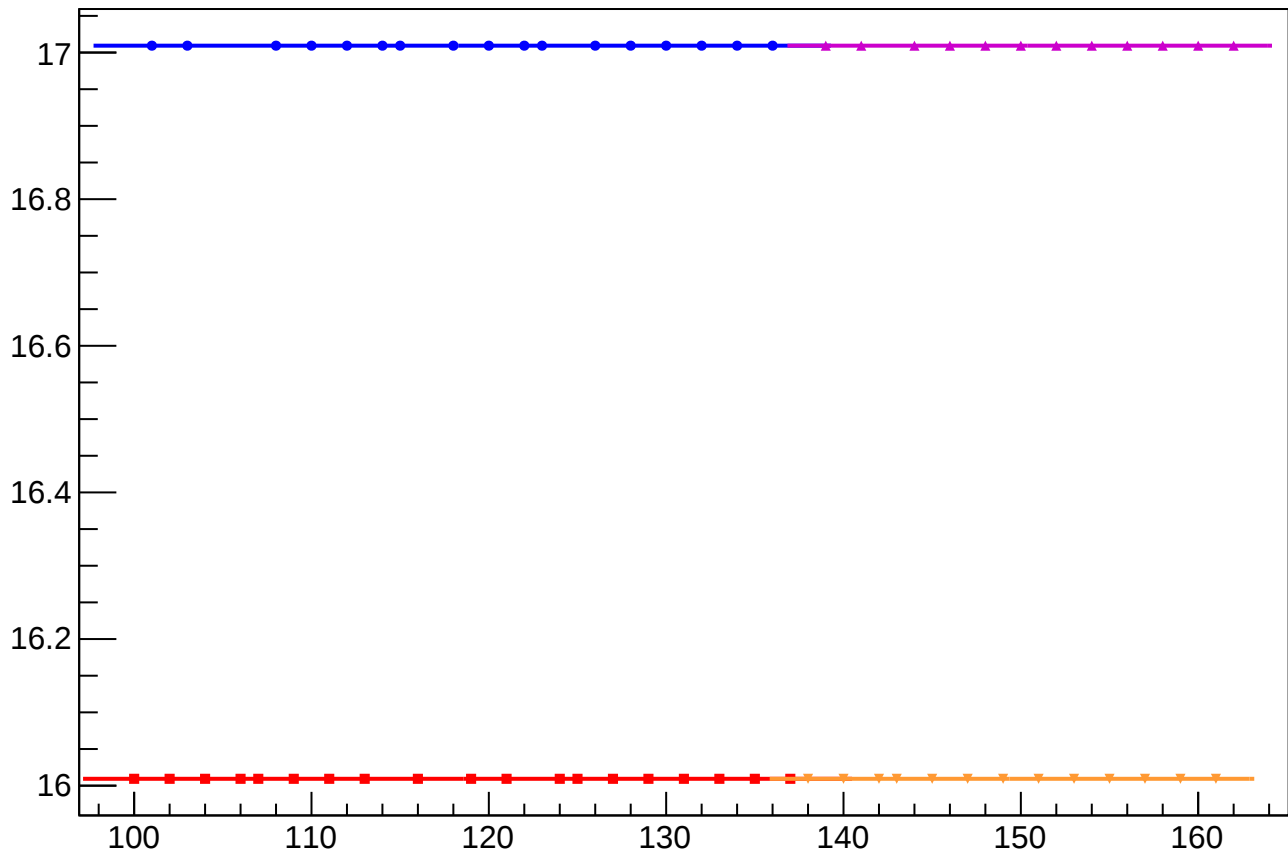
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 218508.2/28

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 25438425028575905

All: 16.504 $\pm$ 0.000 χ^2 /NDF: 7877188264926

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009+/-0.000 χ^2 /NDF: 40881.9/12

Right Out: 16.009+/-0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009+/-0.000 χ^2 /NDF: 18364.7/11

Left: 16.506+/-0.000 χ^2 /NDF: 49672873678910263

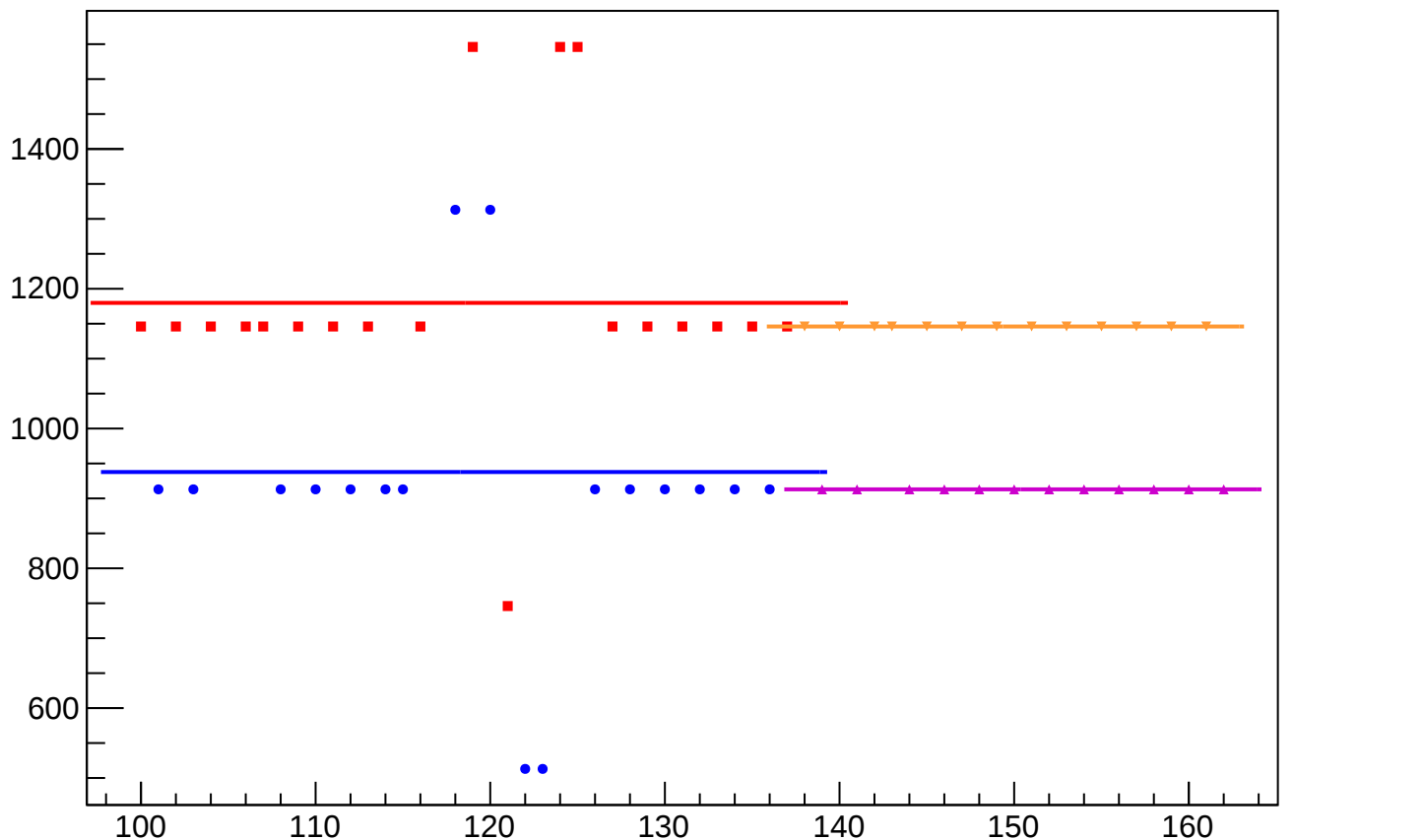
Right: 16.490+/-0.000 χ^2 /NDF: 3437400145243126

In: 17.009+/-0.000 χ^2 /NDF: 316301.7/28

Out: 16.009+/-0.000 χ^2 /NDF: 206454.4/31

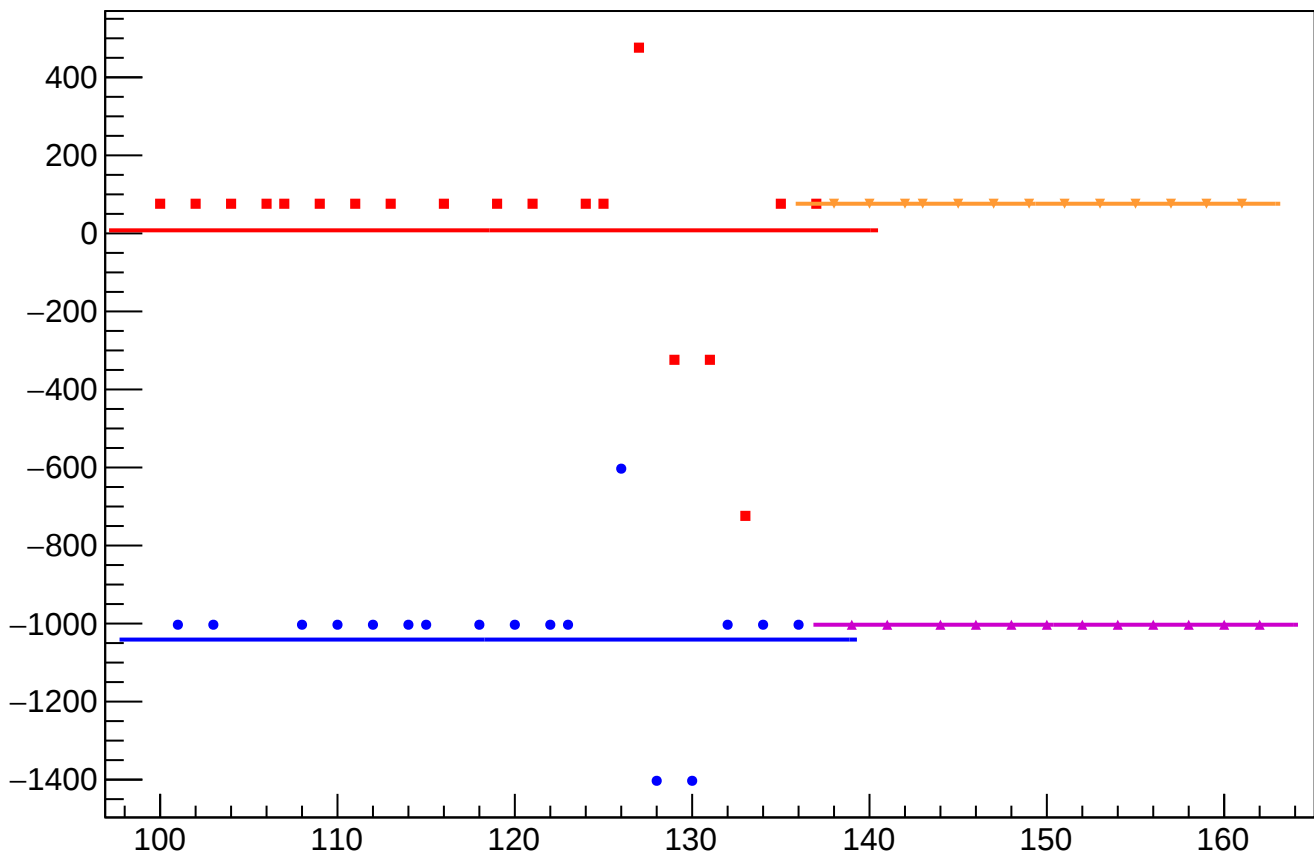
All: 16.500+/-0.000 χ^2 /NDF: 840676278240/...

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 3902381054582015082910187520.0/12
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.994+/-0.000 χ^2/NDF : 13162467717235277240723308544.0/11
 All: 1042.915+/-0.000 χ^2/NDF : 91048153287.0/20

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 4369098972849093630551392256.0/12
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.989+/-0.000 χ^2/NDF : 1307502855883668168323891200.0/11
 All: -479.744+/-0.000 χ^2/NDF : 10416718524