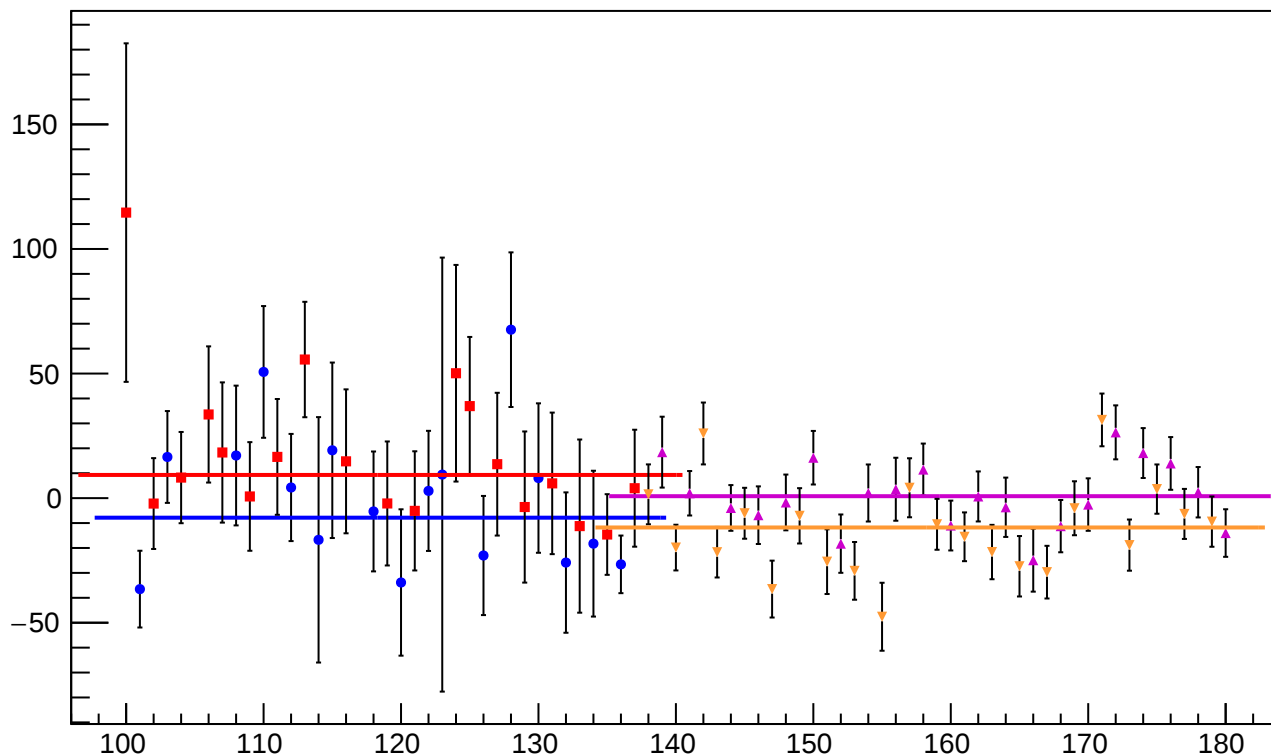


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

$\chi^2/\text{NDF}: 22.6/16$

Left Out: -11.774 ± 2.310

$\chi^2/\text{NDF}: 55.4/21$

Right Out: 9.309 ± 5.677

$\chi^2/\text{NDF}: 13.2/18$

Left In: 0.783 ± 2.335

$\chi^2/\text{NDF}: 27.8/20$

Left: -5.563 ± 1.642

$\chi^2/\text{NDF}: 97.7/42$

Right: 0.629 ± 3.990

$\chi^2/\text{NDF}: 40.5/35$

In: -0.491 ± 2.156

$\chi^2/\text{NDF}: 52.4/37$

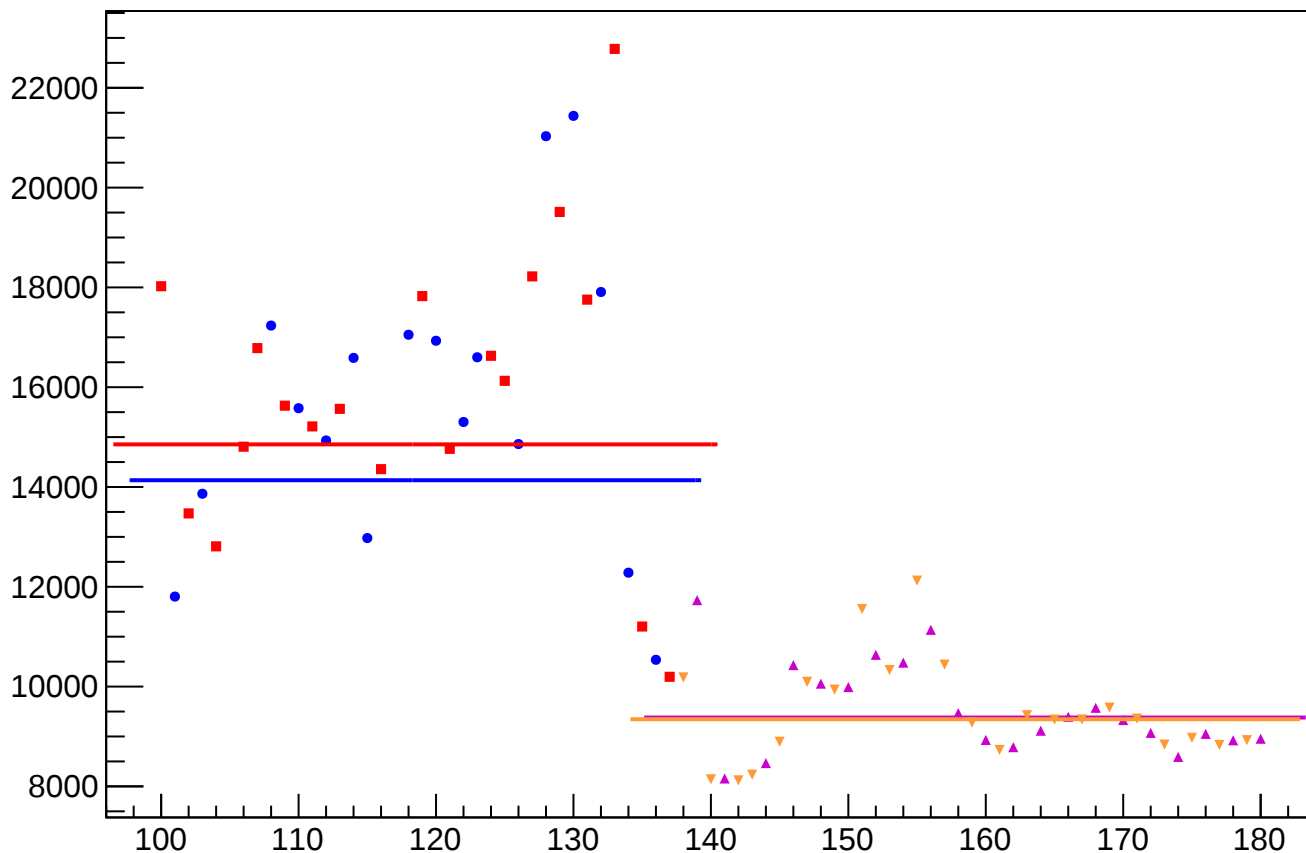
Out: -8.779 ± 2.140

$\chi^2/\text{NDF}: 80.4/40$

All: -4.666 ± 1.519

$\chi^2/\text{NDF}: 140.3/78$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9345.321 $\pm$ 1.634 χ^2 /NDF: 303892.6/21

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

Left In: 9379.975 $\pm$ 1.651 χ^2 /NDF: 259474.0/20

Left: 9362.462 $\pm$ 1.161 χ^2 /NDF: 563589.2/42

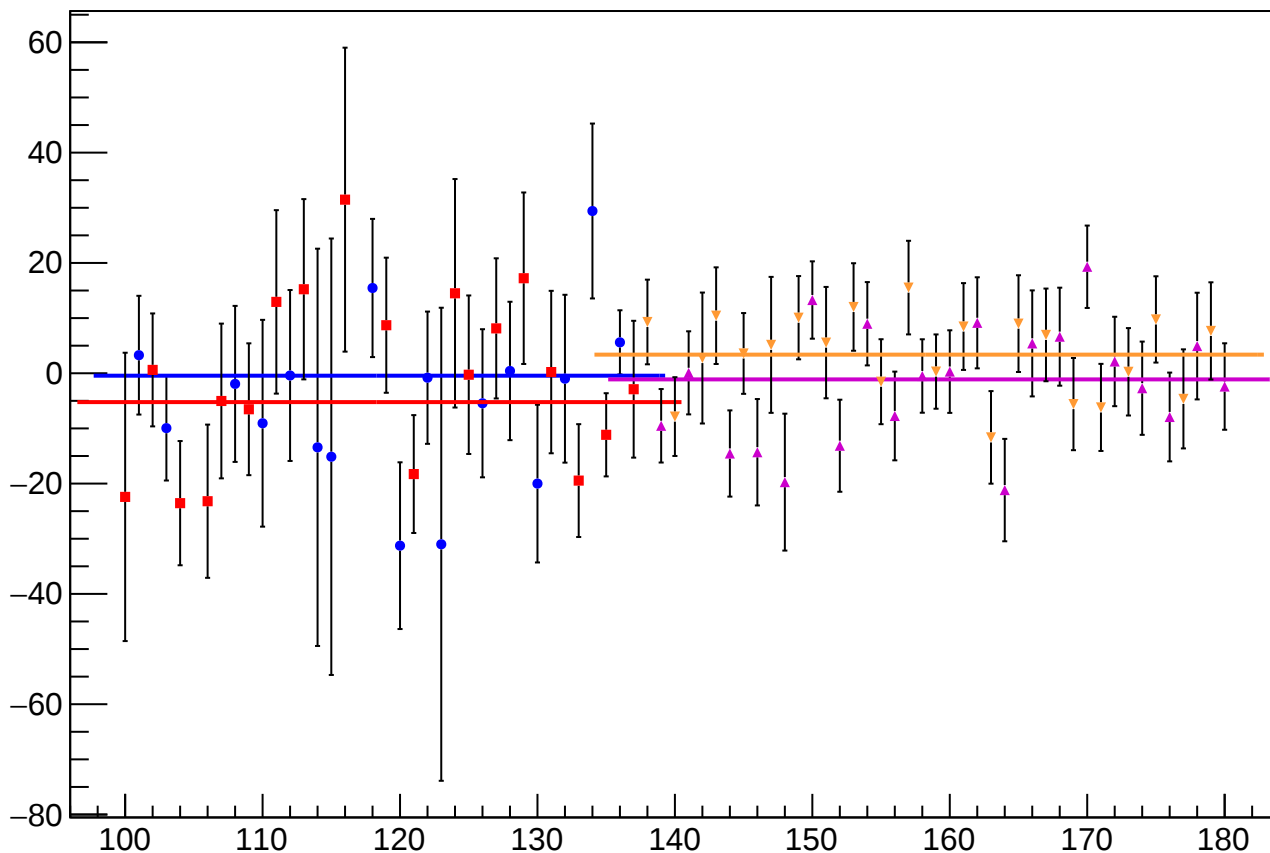
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10082.646 $\pm$ 1.524 χ^2 /NDF: 2082351.9/37

Out: 10127.875 $\pm$ 1.513 χ^2 /NDF: 2391452.4/40

All: 10105.429 $\pm$ 1.074 χ^2 /NDF: 4474247.8/77

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.376 ± 1.758 χ^2/NDF : 17.1/21

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

Left In: -1.113 ± 1.764 χ^2/NDF : 33.7/20

Left: 1.140 ± 1.246 χ^2/NDF : 54.1/42

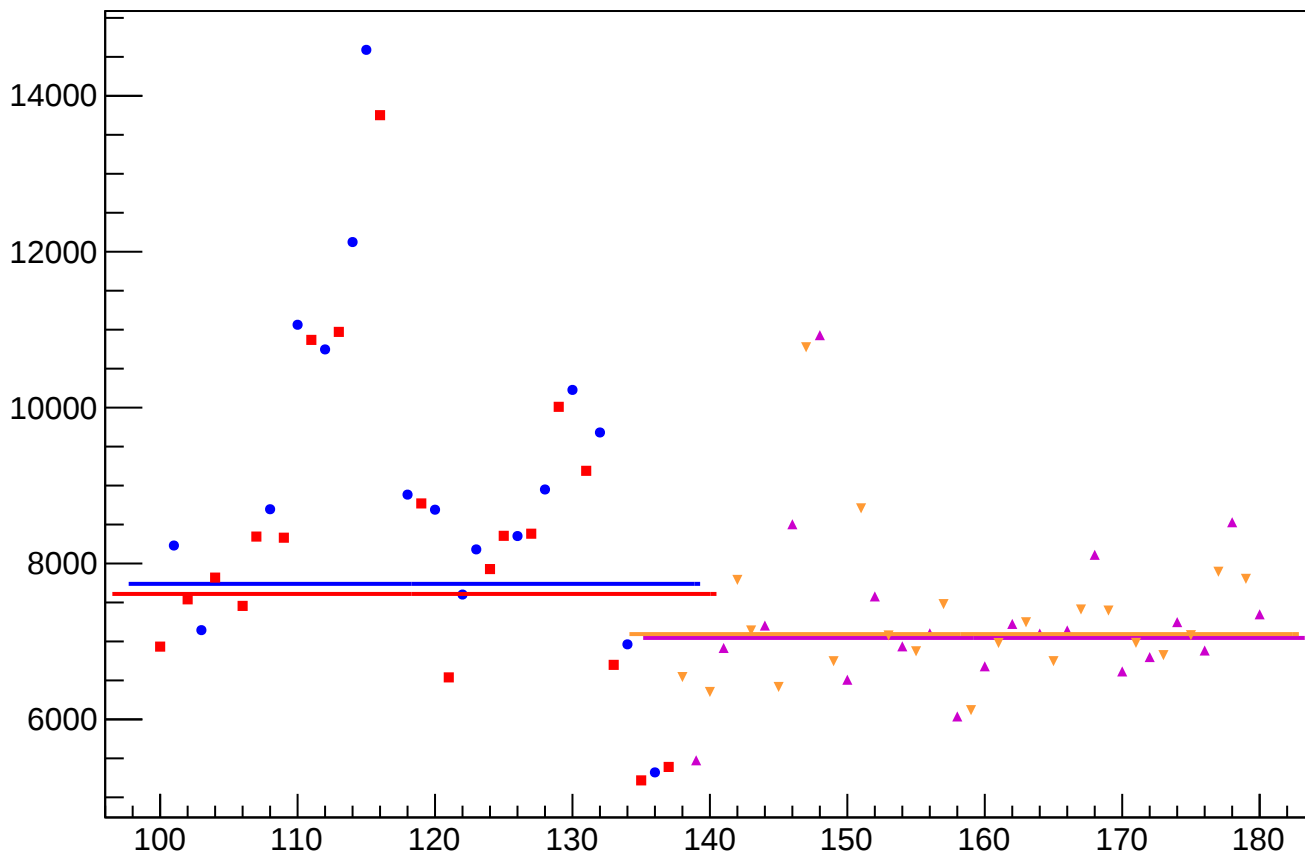
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -0.946 ± 1.530 χ^2/NDF : 48.3/37

Out: 1.104 ± 1.508 χ^2/NDF : 42.8/40

All: 0.094 ± 1.074 χ^2/NDF : 92.0/78

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7094.504 $\pm$ 1.243 χ^2/NDF : 378595.0/21

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

Left In: 7045.125 $\pm$ 1.248 χ^2/NDF : 515592.9/20

Left: 7069.900 $\pm$ 0.881 χ^2/NDF : 894973.9/42

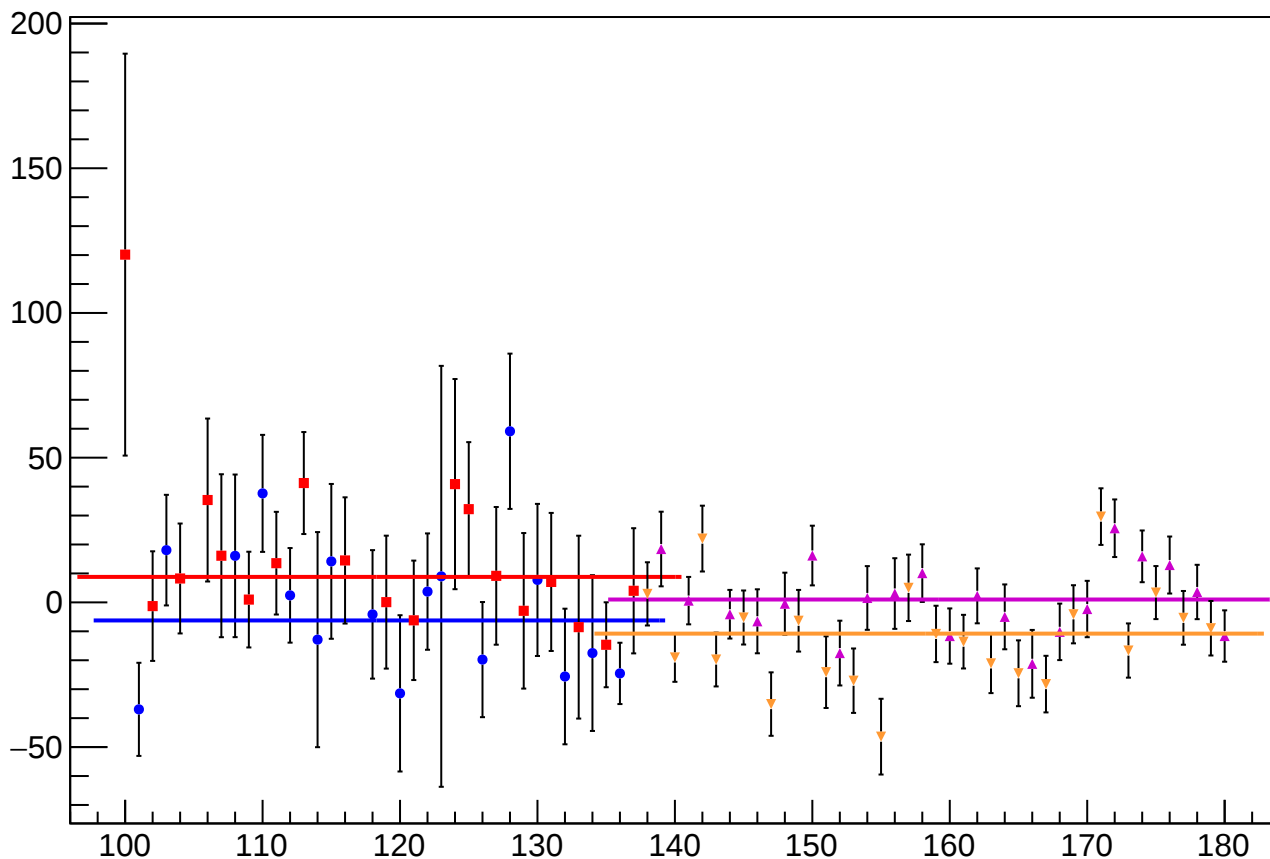
Right: 7671.298 $\pm$ 1.501 χ^2/NDF : 1421871.4/35

In: 7217.304 $\pm$ 1.082 χ^2/NDF : 1333164.2/37

Out: 7230.480 $\pm$ 1.067 χ^2/NDF : 1103075.7/40

All: 7223.985 $\pm$ 0.760 χ^2/NDF : 2436315.1/78

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -10.796 ± 2.157 χ^2/NDF : 56.3/21

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

Left In: 0.989 ± 2.184 χ^2/NDF : 28.0/20

Left: -4.974 ± 1.535 χ^2/NDF : 99.0/42

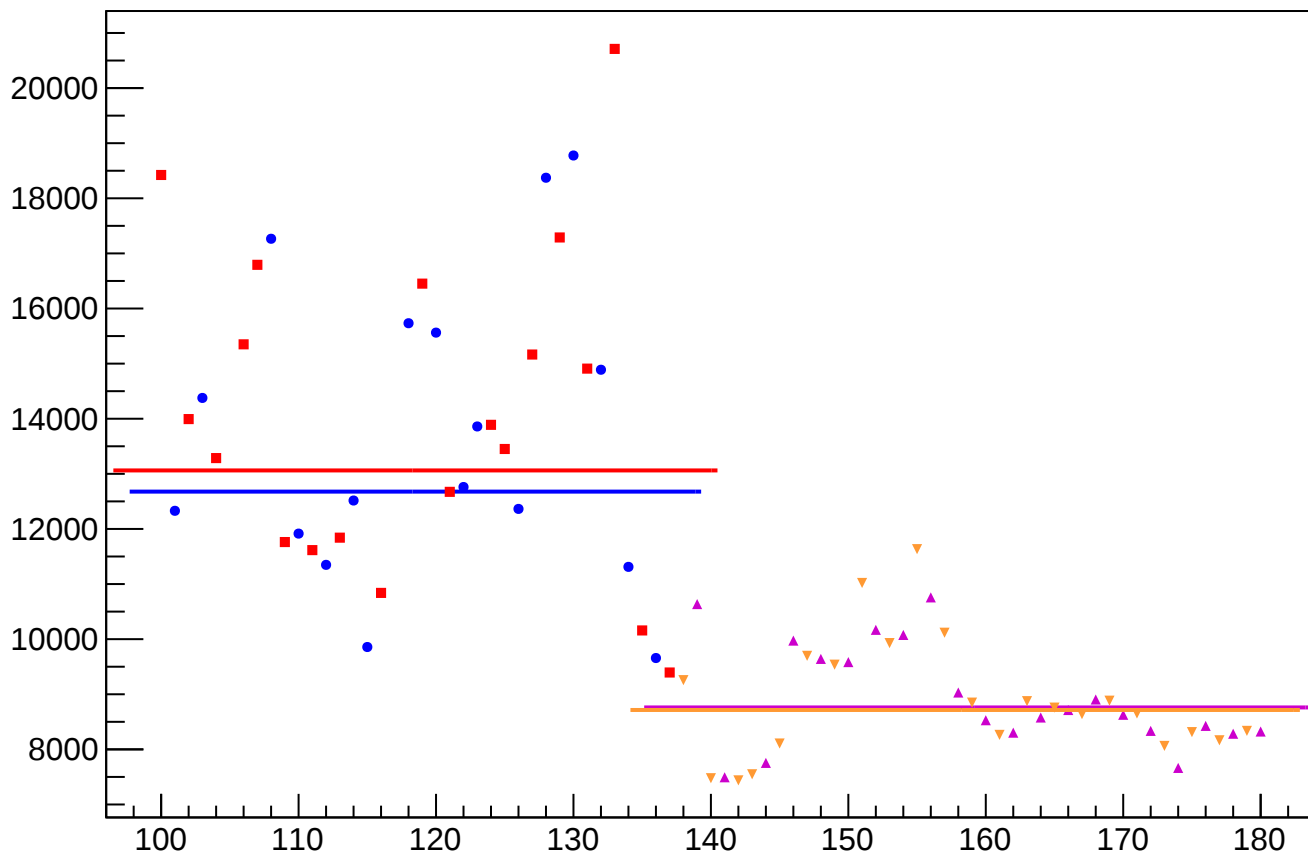
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: -0.163 ± 2.002 χ^2/NDF : 52.9/37

Out: -7.719 ± 1.981 χ^2/NDF : 82.4/40

All: -3.981 ± 1.408 χ^2/NDF : 142.5/78

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12677.516 ± 3.548 $\chi^2/\text{NDF}: 553605.5/16$

Left Out: 8714.959 ± 1.526 $\chi^2/\text{NDF}: 394018.0/21$

Right Out: 13061.839 ± 3.535 $\chi^2/\text{NDF}: 497429.6/18$

Left In: 8760.902 ± 1.544 $\chi^2/\text{NDF}: 337743.0/20$

Left: 8737.654 ± 1.085 $\chi^2/\text{NDF}: 732209.0/42$

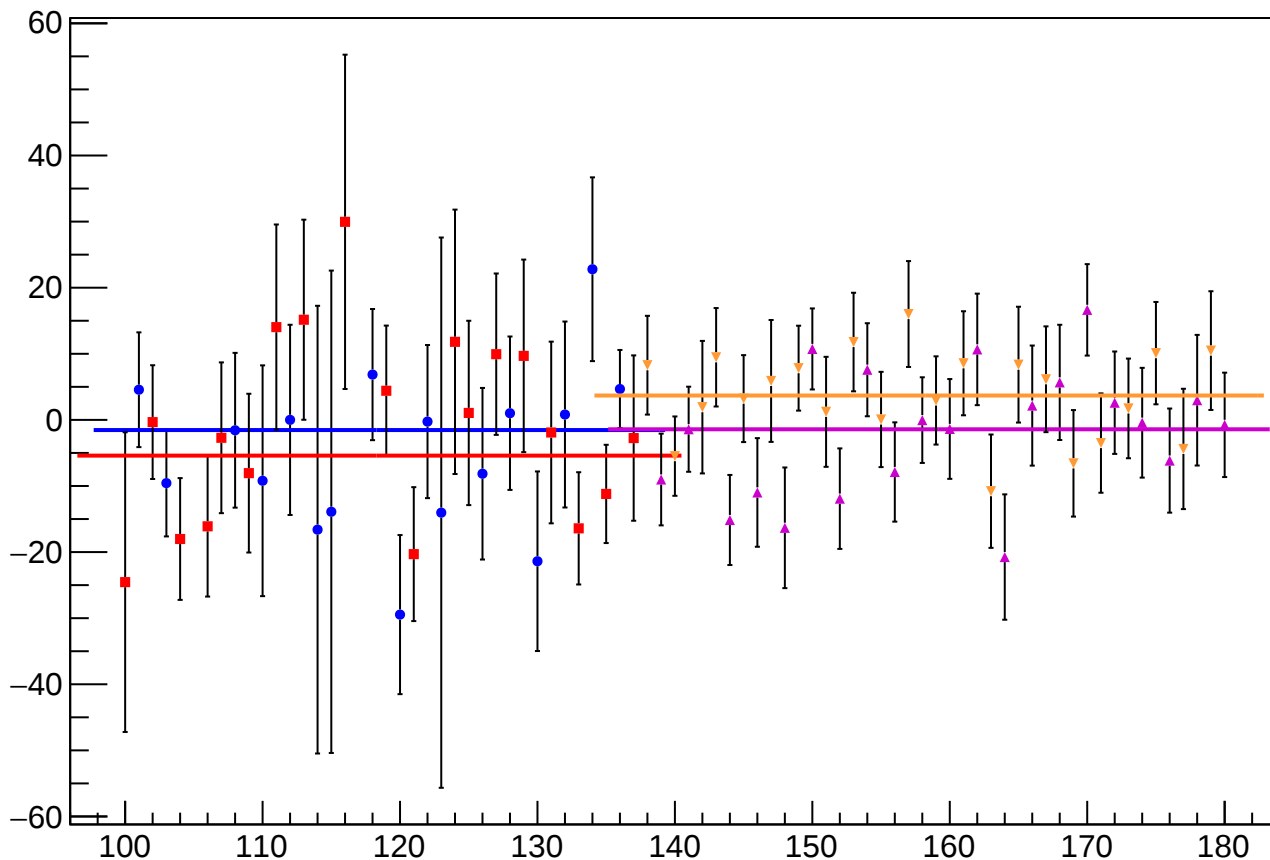
Right: 12870.370 ± 2.504 $\chi^2/\text{NDF}: 1056923.6/35$

In: 9384.611 ± 1.416 $\chi^2/\text{NDF}: 1915988.6/37$

Out: 9397.432 ± 1.401 $\chi^2/\text{NDF}: 2166108.2/40$

All: 9391.090 ± 0.996 $\chi^2/\text{NDF}: 4082138.2/78$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.790 $\chi^2/\text{NDF}: 14.8/16$

Left Out: 3.689 ± 1.638 $\chi^2/\text{NDF}: 16.0/21$

Right Out: -5.405 ± 2.640 $\chi^2/\text{NDF}: 18.6/18$

Left In: -1.422 ± 1.664 $\chi^2/\text{NDF}: 32.2/20$

Left: 1.173 ± 1.167 $\chi^2/\text{NDF}: 53.0/42$

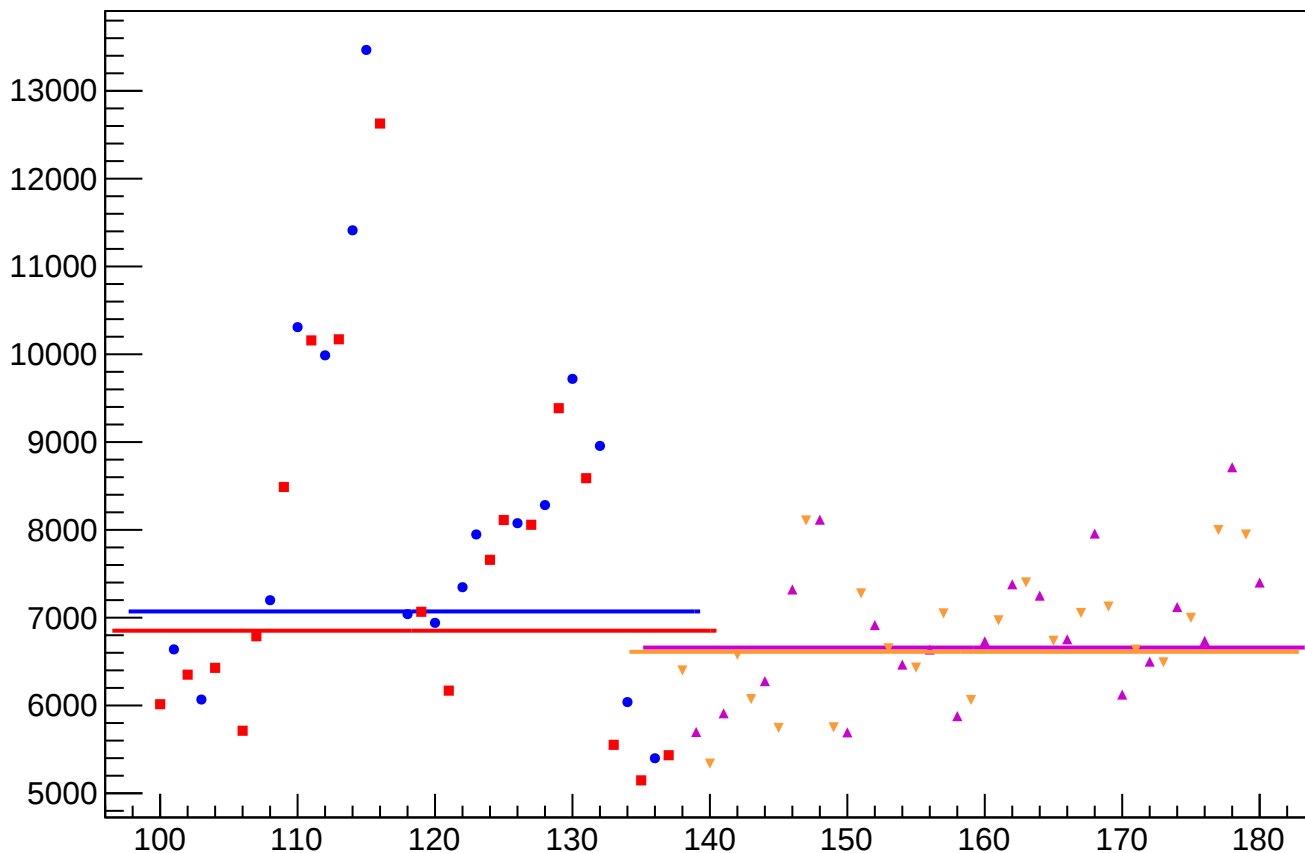
Right: -3.578 ± 1.918 $\chi^2/\text{NDF}: 34.4/35$

In: -1.452 ± 1.429 $\chi^2/\text{NDF}: 47.1/37$

Out: 1.161 ± 1.392 $\chi^2/\text{NDF}: 43.1/40$

All: -0.112 ± 0.997 $\chi^2/\text{NDF}: 91.9/78$

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6611.197+/-1.158 χ^2/NDF : 391064.0/21

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

Left In: 6659.636+/-1.176 χ^2/NDF : 408435.2/20

Left: 6635.041+/-0.825 χ^2/NDF : 800360.1/42

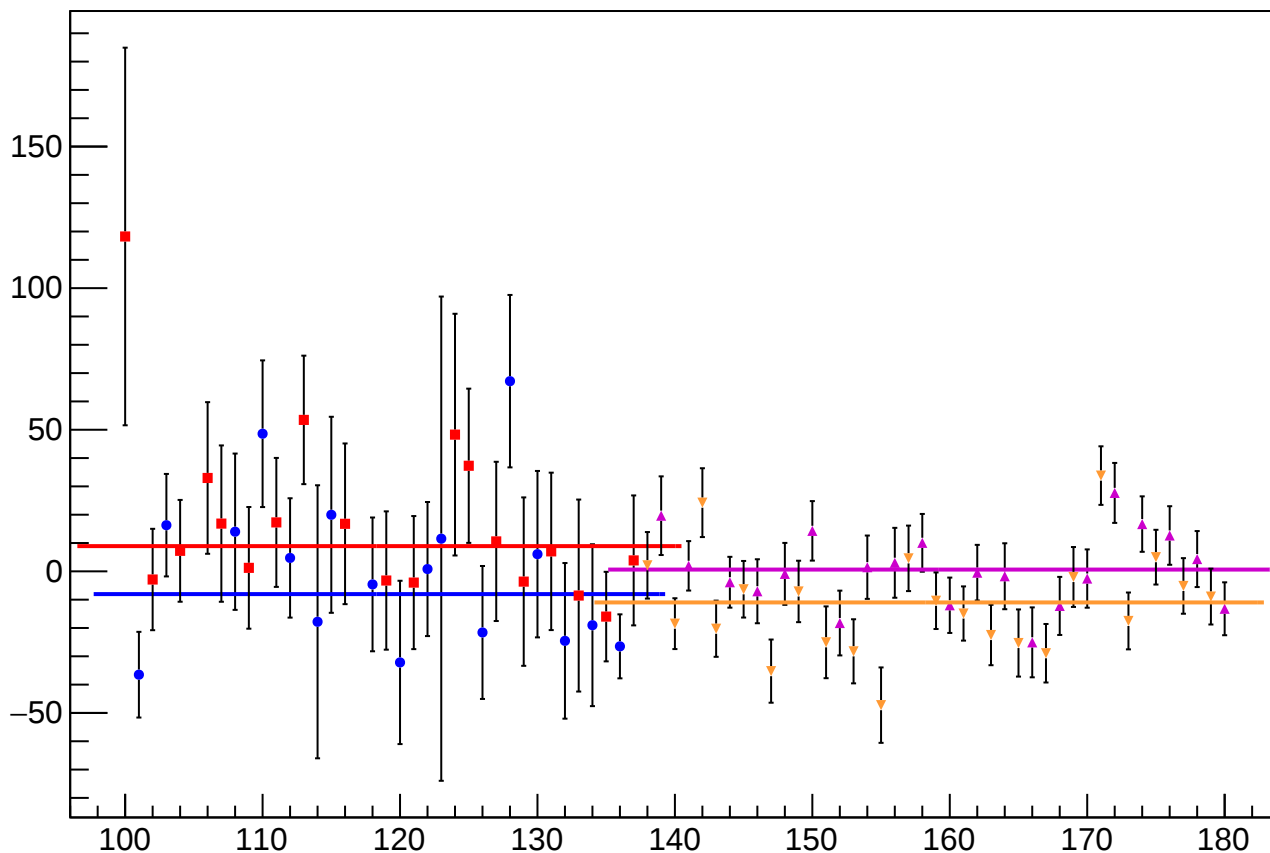
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6767.524+/-1.010 χ^2/NDF : 1041258.1/37

Out: 6678.037+/-0.984 χ^2/NDF : 1087440.0/40

All: 6721.603+/-0.705 χ^2/NDF : 2132723.1/78

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -10.980 $\pm$ 2.258 χ^2/NDF : 57.9/21

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

Left In: 0.625 $\pm$ 2.283 χ^2/NDF : 28.6/20

Left: -5.240 $\pm$ 1.605 χ^2/NDF : 99.6/42

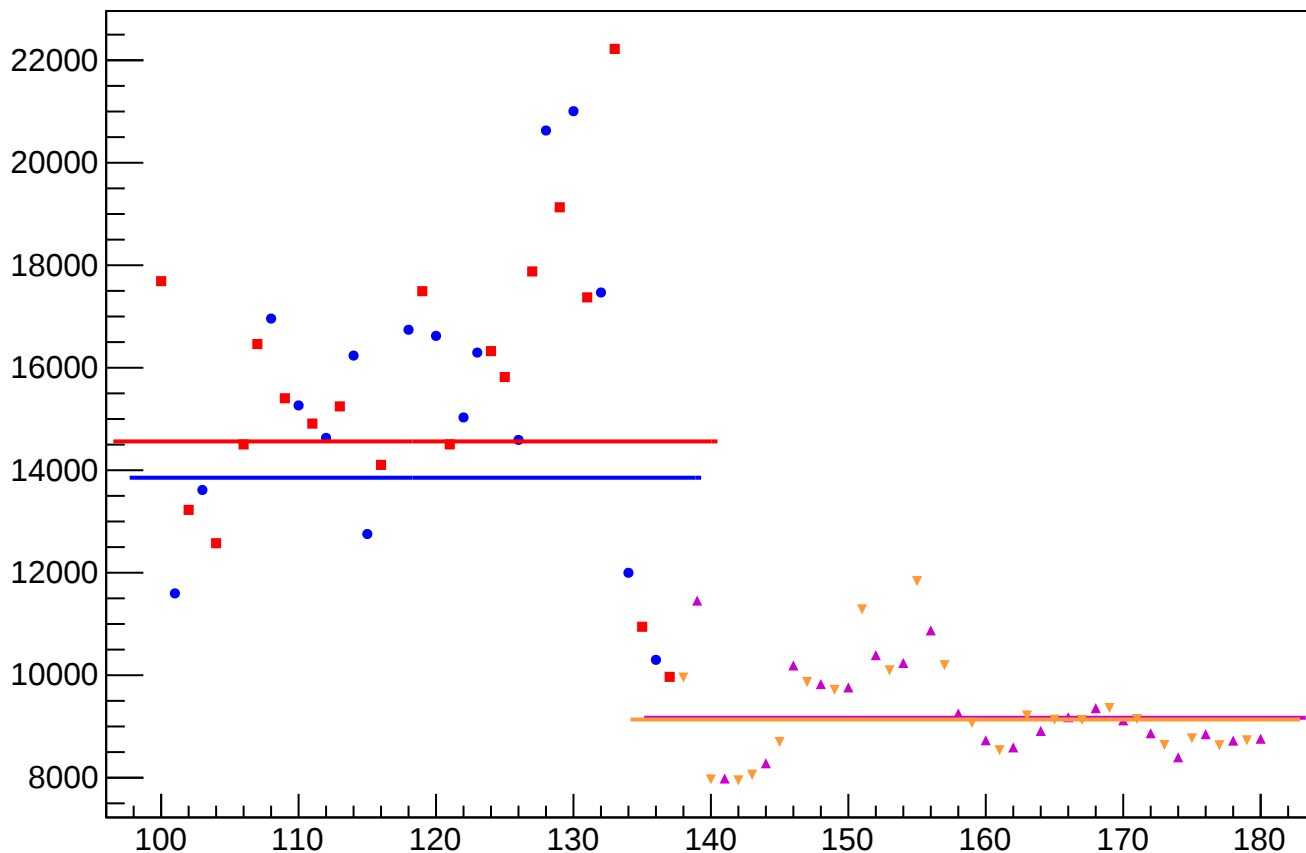
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -0.649 $\pm$ 2.108 χ^2/NDF : 53.3/37

Out: -8.169 $\pm$ 2.093 χ^2/NDF : 82.6/40

All: -4.437 $\pm$ 1.485 χ^2/NDF : 142.3/78

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187 $\pm$ 3.887 χ^2 /NDF: 600963.4/16

Left Out: 9136.141 $\pm$ 1.597 χ^2 /NDF: 300726.7/21

Right Out: 14562.308 $\pm$ 3.936 χ^2 /NDF: 474279.5/18

Left In: 9169.910 $\pm$ 1.614 χ^2 /NDF: 256574.9/20

Left: 9152.844 $\pm$ 1.135 χ^2 /NDF: 557522.8/42

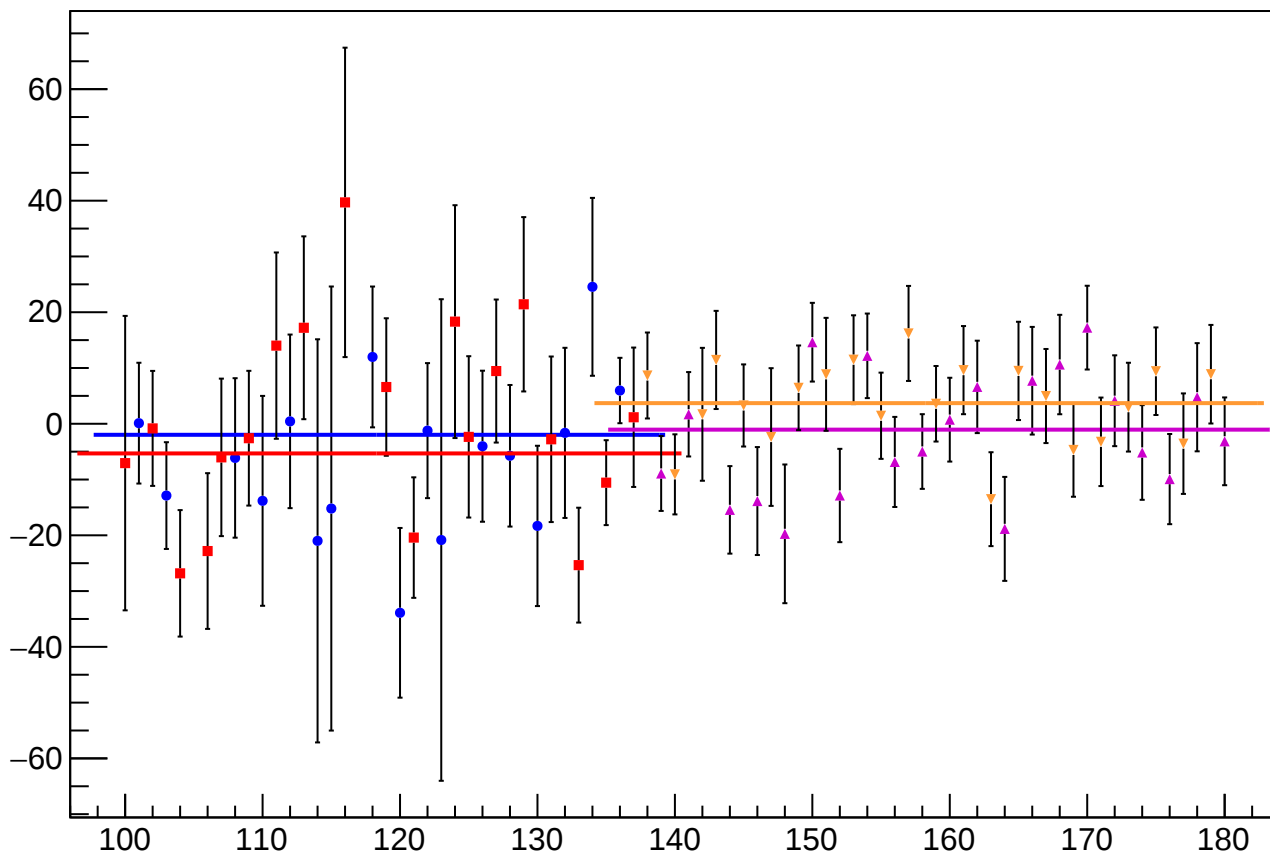
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 9858.785 $\pm$ 1.491 χ^2 /NDF: 2096107.3/37

Out: 9903.047 $\pm$ 1.480 χ^2 /NDF: 2407034.5/40

All: 9881.080 $\pm$ 1.050 χ^2 /NDF: 4503585.8/78

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 $\chi^2/\text{NDF}: 14.0/16$

Left Out: 3.699 ± 1.766 $\chi^2/\text{NDF}: 16.7/21$

Right Out: -5.318 ± 2.959 $\chi^2/\text{NDF}: 24.3/18$

Left In: -1.054 ± 1.772 $\chi^2/\text{NDF}: 35.0/20$

Left: 1.331 ± 1.251 $\chi^2/\text{NDF}: 55.3/42$

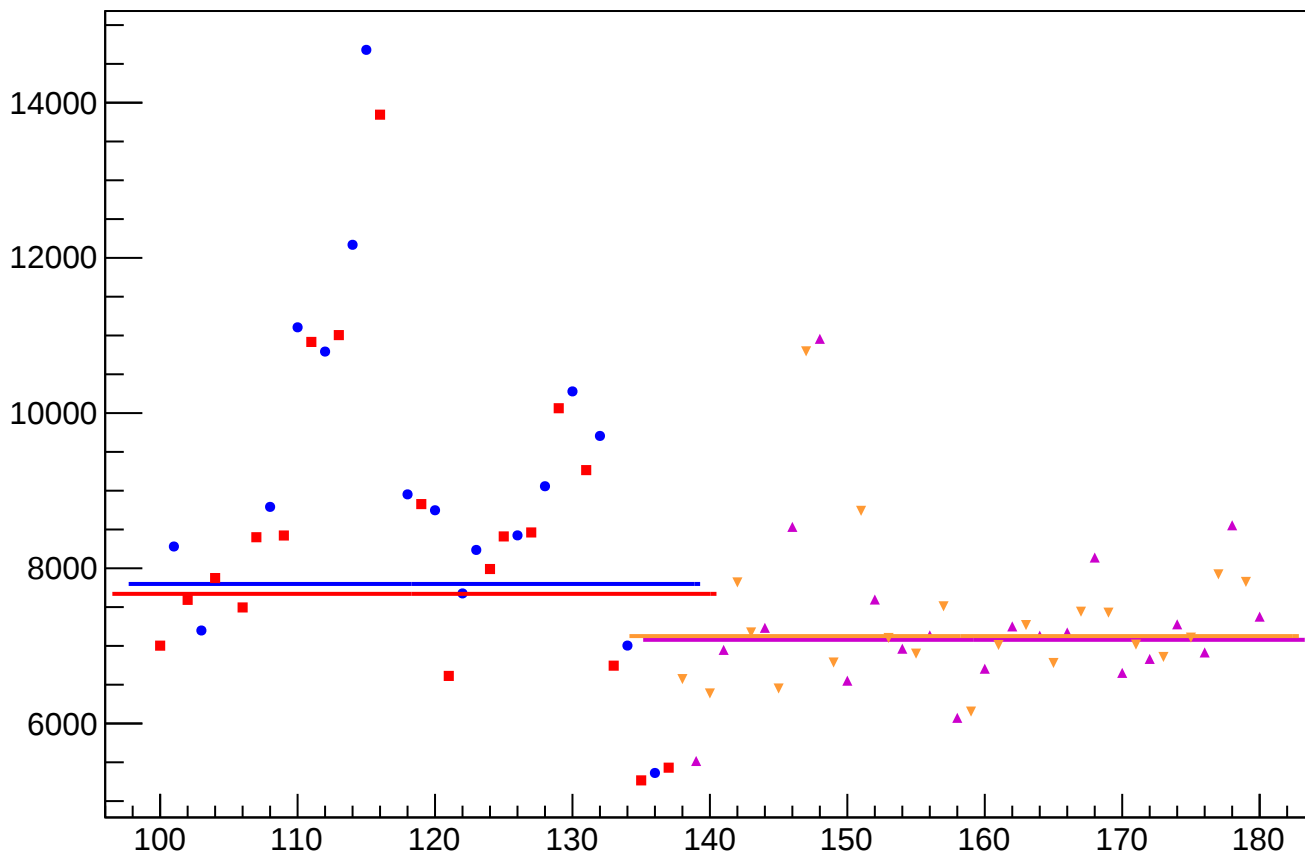
Right: -3.723 ± 2.138 $\chi^2/\text{NDF}: 39.0/35$

In: -1.282 ± 1.538 $\chi^2/\text{NDF}: 49.1/37$

Out: 1.330 ± 1.516 $\chi^2/\text{NDF}: 47.9/40$

All: 0.042 ± 1.080 $\chi^2/\text{NDF}: 98.4/78$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267+/-2.188 χ^2/NDF : 736283.6/16

Left Out: 7126.338+/-1.249 χ^2/NDF : 373878.5/21

Right Out: 7670.584+/-2.092 χ^2/NDF : 672691.0/18

Left In: 7078.285+/-1.253 χ^2/NDF : 507562.3/20

Left: 7102.399+/-0.885 χ^2/NDF : 882178.4/42

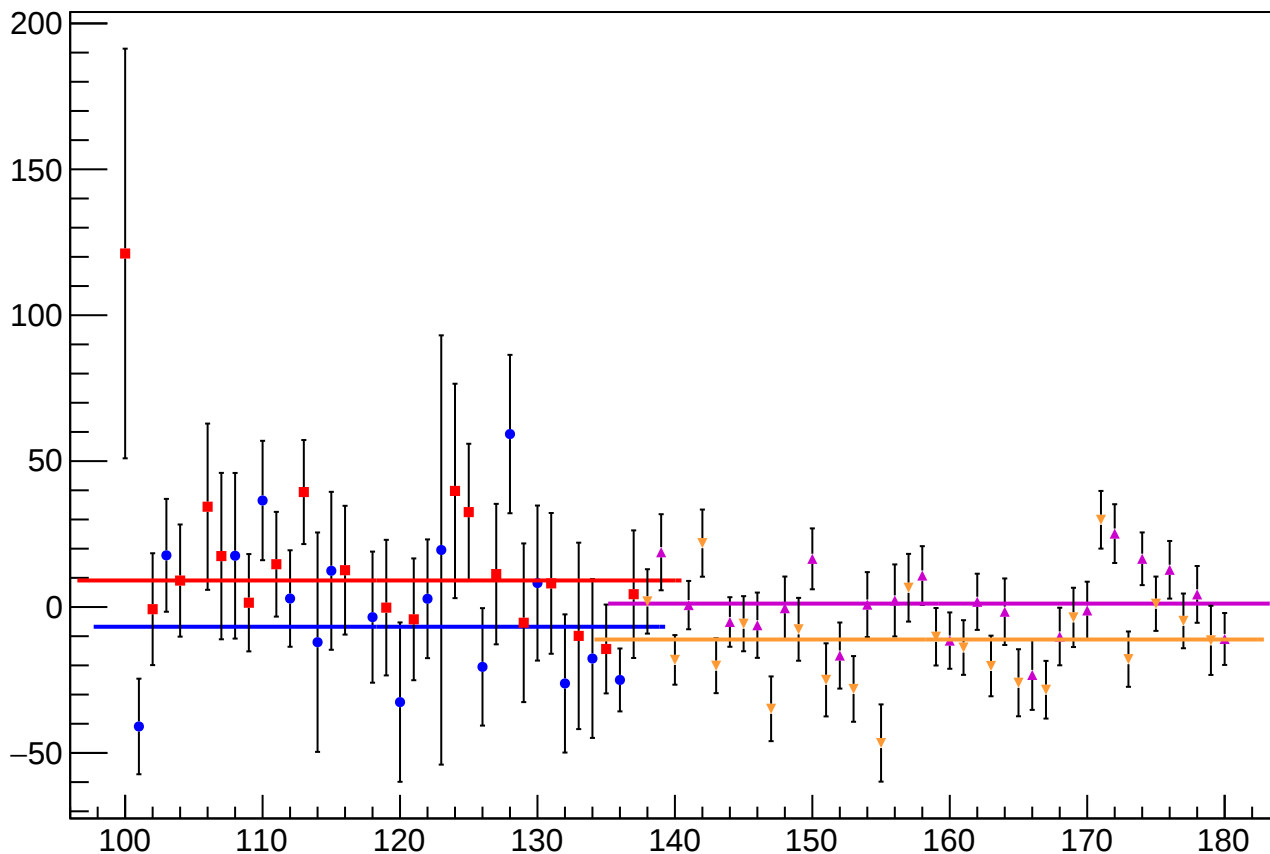
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7256.188+/-1.088 χ^2/NDF : 1325388.7/37

Out: 7269.315+/-1.072 χ^2/NDF : 1096471.5/40

All: 7262.845+/-0.764 χ^2/NDF : 2421934.1/78

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 ± 5.085 $\chi^2/\text{NDF}: 23.7/16$

Left Out: -11.128 ± 2.202 $\chi^2/\text{NDF}: 55.3/21$

Right Out: 9.102 ± 5.070 $\chi^2/\text{NDF}: 12.2/18$

Left In: 1.173 ± 2.211 $\chi^2/\text{NDF}: 27.6/20$

Left: -5.000 ± 1.560 $\chi^2/\text{NDF}: 98.5/42$

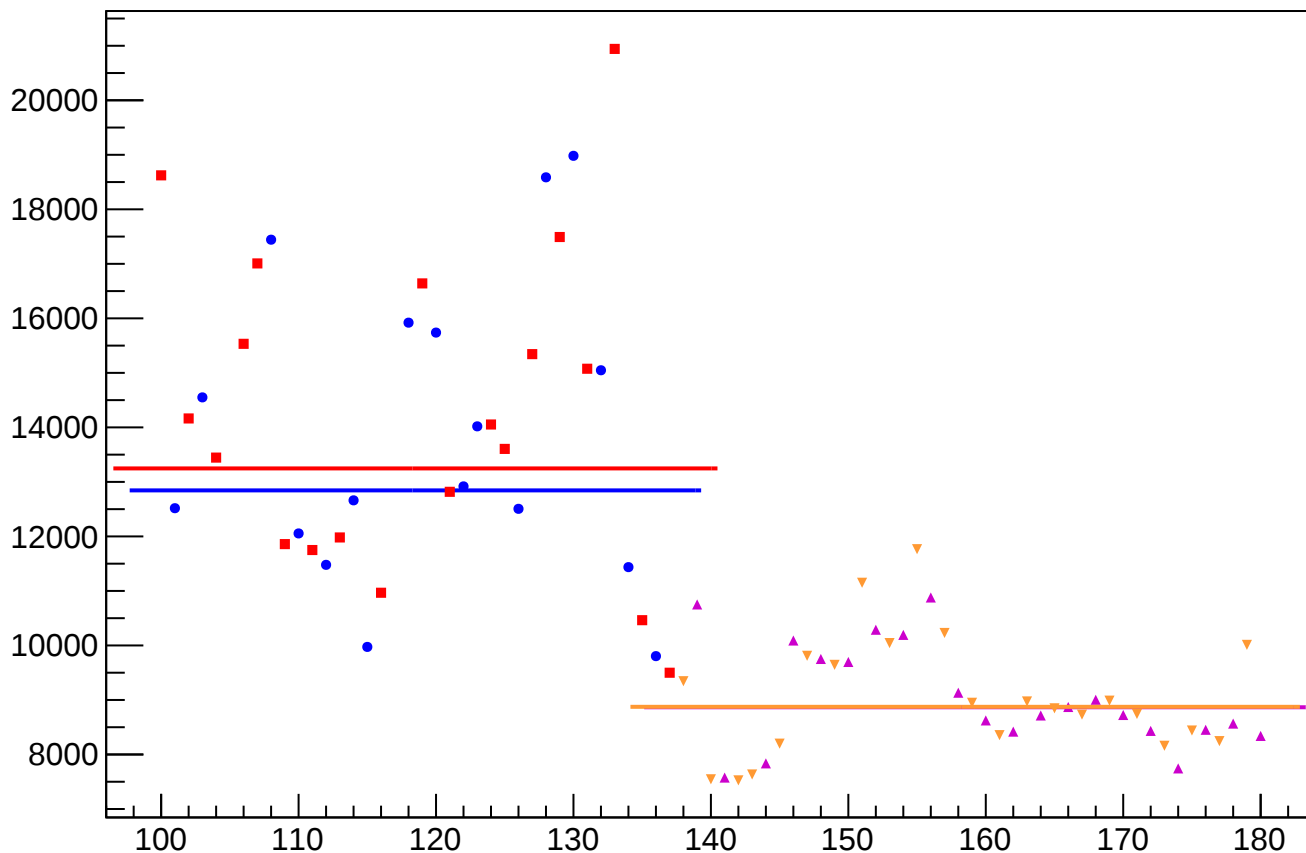
Right: 1.193 ± 3.590 $\chi^2/\text{NDF}: 40.8/35$

In: -0.088 ± 2.027 $\chi^2/\text{NDF}: 53.4/37$

Out: -7.917 ± 2.020 $\chi^2/\text{NDF}: 80.9/40$

All: -4.016 ± 1.431 $\chi^2/\text{NDF}: 141.8/78$

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8874.320 $\pm$ 1.557 χ^2/NDF : 410522.0/21

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

Left In: 8866.177 $\pm$ 1.563 χ^2/NDF : 337988.9/20

Left: 8870.264 $\pm$ 1.103 χ^2/NDF : 748524.4/42

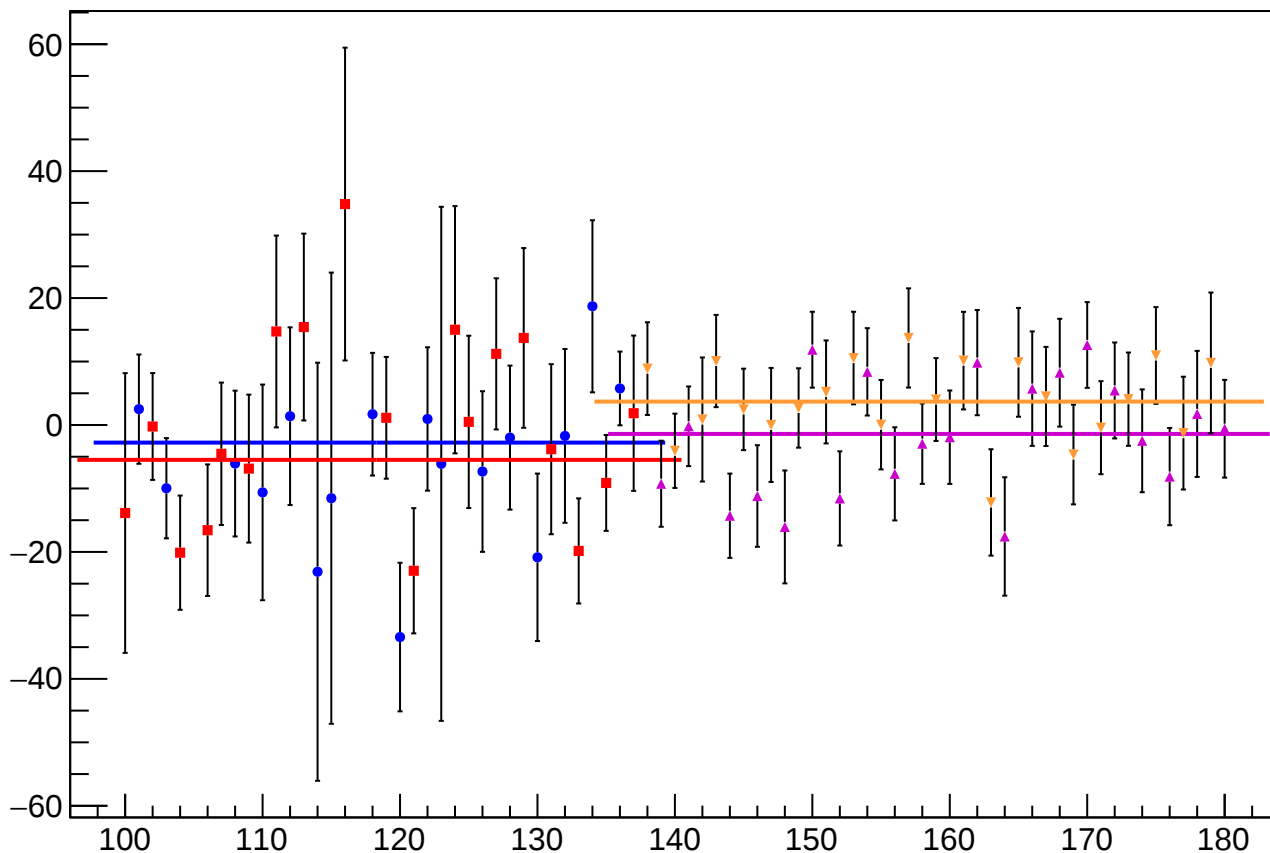
Right: 13046.351 $\pm$ 2.539 χ^2/NDF : 1039049.9/35

In: 9498.534 $\pm$ 1.433 χ^2/NDF : 1914883.8/37

Out: 9568.331 $\pm$ 1.428 χ^2/NDF : 2147491.9/40

All: 9533.558 $\pm$ 1.012 χ^2/NDF : 4063565.4/78

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 ± 2.732 $\chi^2/\text{NDF}: 15.9/16$

Left Out: 3.689 ± 1.609 $\chi^2/\text{NDF}: 14.0/21$

Right Out: -5.491 ± 2.587 $\chi^2/\text{NDF}: 23.2/18$

Left In: -1.407 ± 1.626 $\chi^2/\text{NDF}: 31.8/20$

Left: 1.167 ± 1.144 $\chi^2/\text{NDF}: 50.7/42$

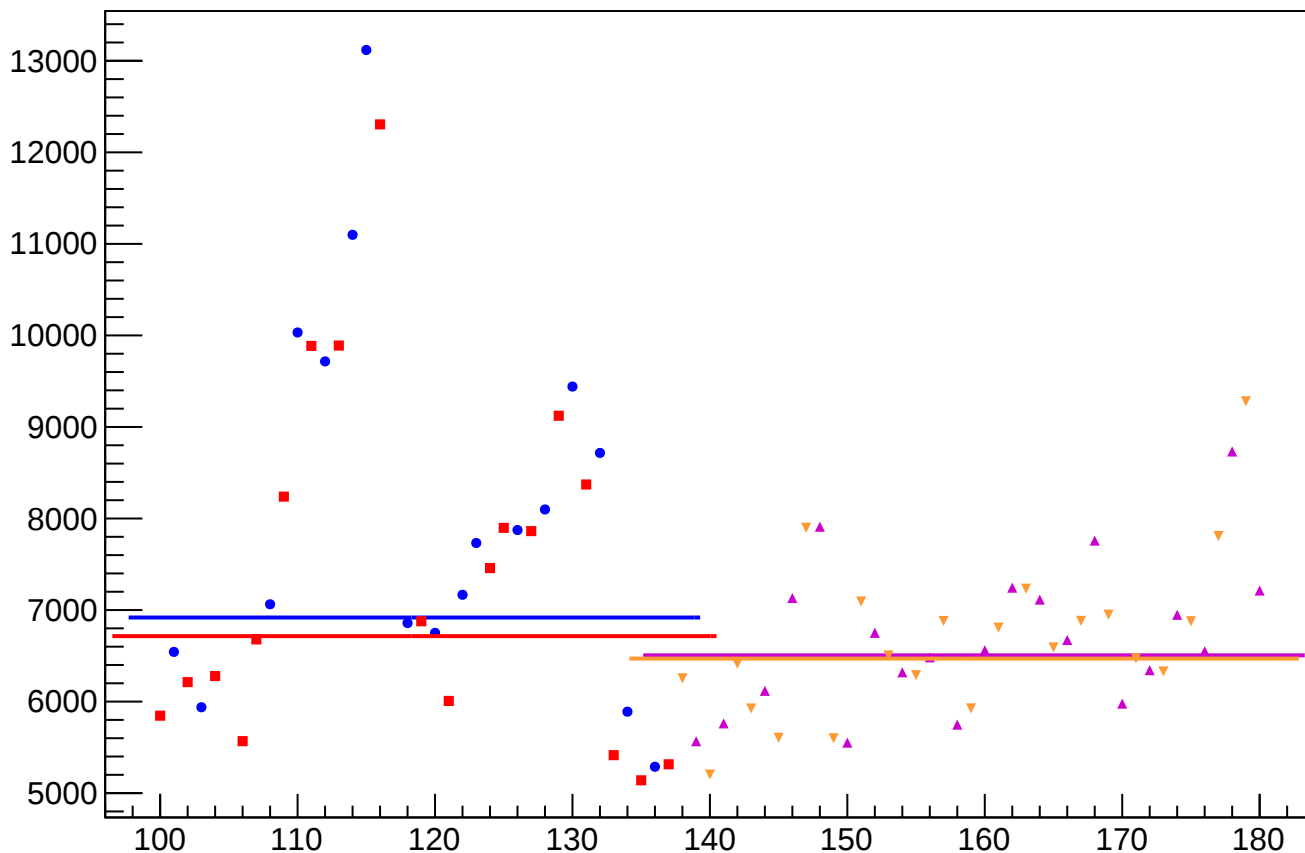
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

In: -1.764 ± 1.397 $\chi^2/\text{NDF}: 47.8/37$

Out: 1.128 ± 1.367 $\chi^2/\text{NDF}: 46.2/40$

All: -0.286 ± 0.977 $\chi^2/\text{NDF}: 96.2/78$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6469.723+/-1.138 χ^2/NDF : 479501.5/21

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

Left In: 6505.178+/-1.150 χ^2/NDF : 423843.9/20

Left: 6487.267+/-0.809 χ^2/NDF : 903825.7/42

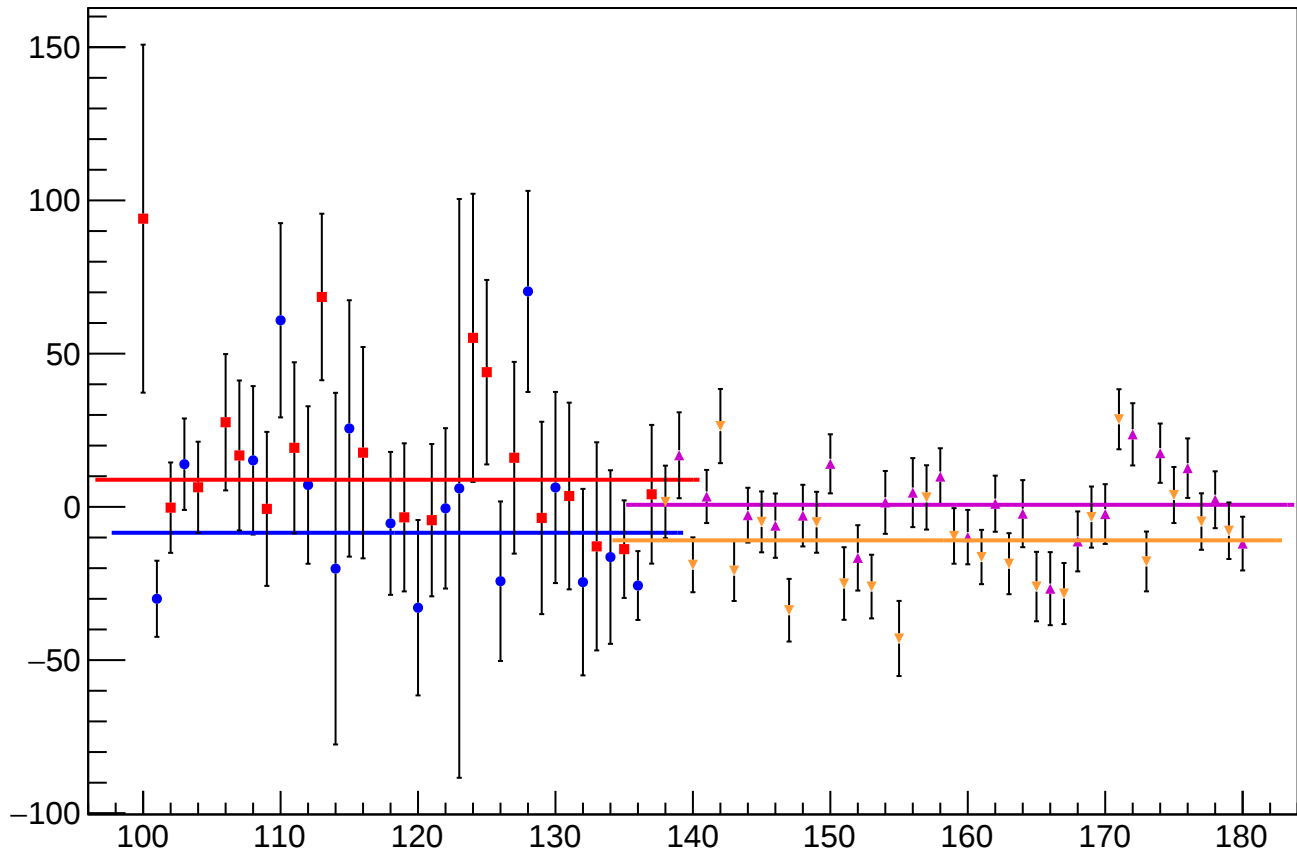
Right: 6811.237+/-1.328 χ^2/NDF : 1248897.6/35

In: 6613.316+/-0.988 χ^2/NDF : 1044687.4/37

Out: 6538.149+/-0.966 χ^2/NDF : 1148473.1/40

All: 6574.898+/-0.691 χ^2/NDF : 2196118.7/78

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -10.921 ± 2.142 $\chi^2/\text{NDF}: 56.5/21$

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

Left In: 0.674 ± 2.156 $\chi^2/\text{NDF}: 27.9/20$

Left: -5.160 ± 1.520 $\chi^2/\text{NDF}: 99.0/42$

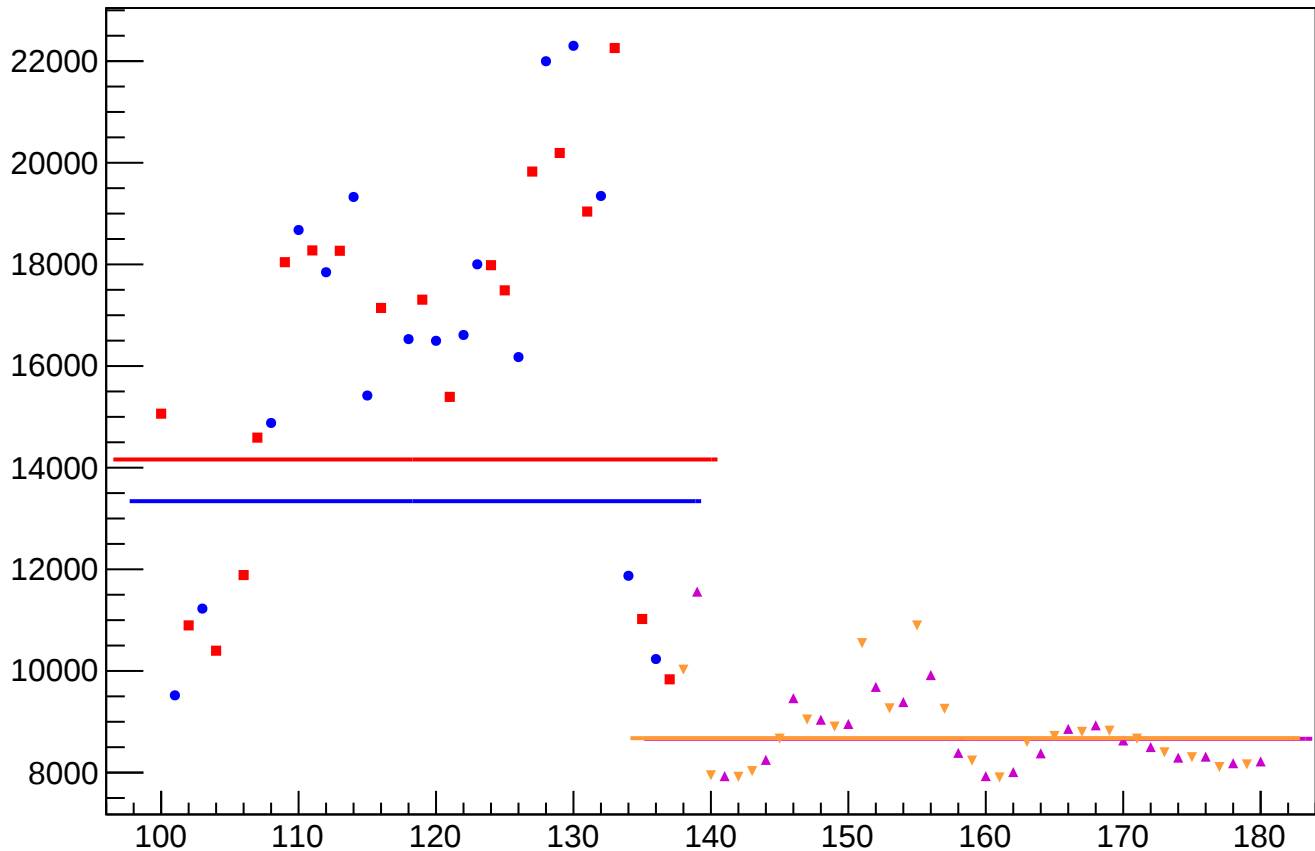
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: -0.583 ± 2.002 $\chi^2/\text{NDF}: 52.4/37$

Out: -8.323 ± 1.997 $\chi^2/\text{NDF}: 82.0/40$

All: -4.463 ± 1.414 $\chi^2/\text{NDF}: 141.8/78$

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8677.308 $\pm$ 1.515 χ^2 /NDF:226818.5/21

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

Left In: 8665.449 $\pm$ 1.525 χ^2 /NDF:219073.4/20

Left: 8671.417 $\pm$ 1.075 χ^2 /NDF: 445922.4/42

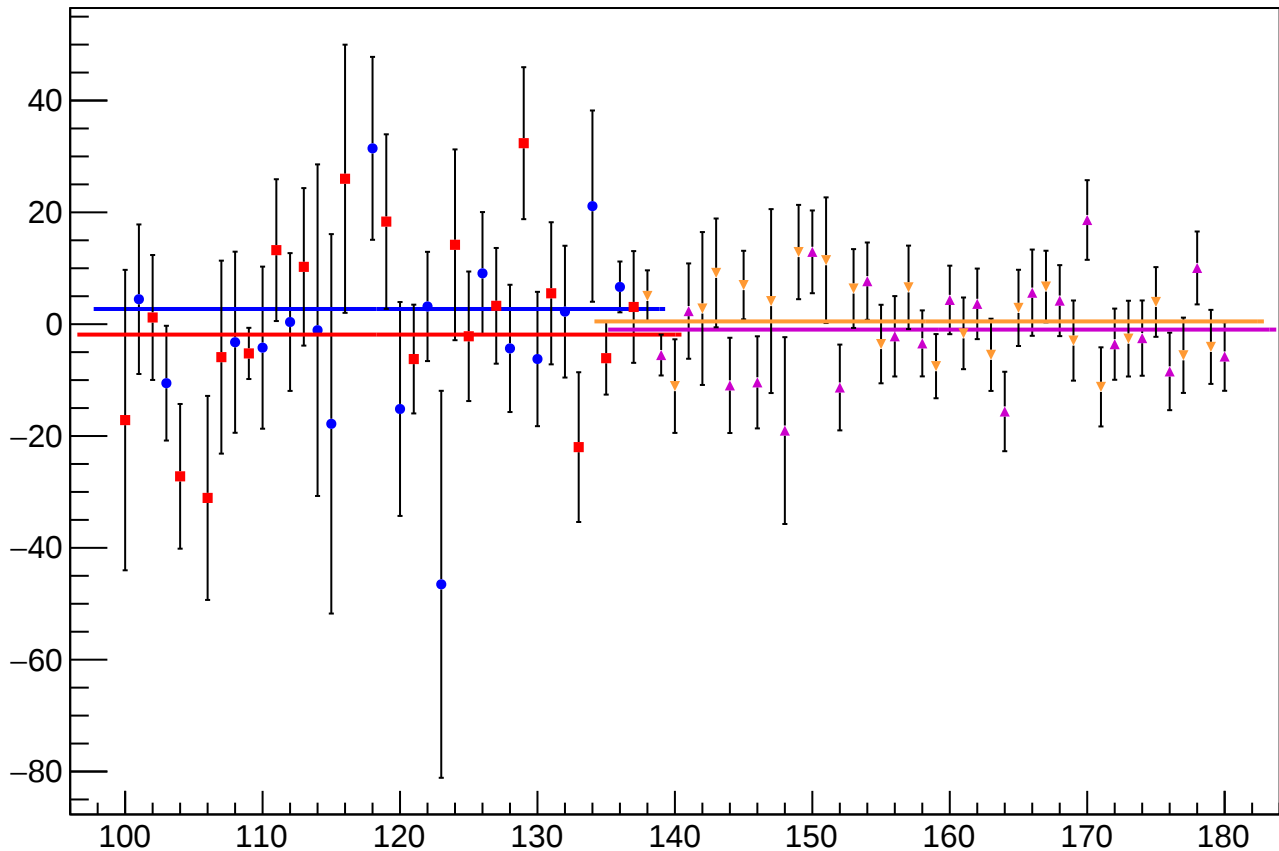
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9309.761 $\pm$ 1.416 χ^2 /NDF:2559755.1/37

Out: 9397.828 $\pm$ 1.412 χ^2 /NDF:2880848.9/40

All: 9353.914 $\pm$ 1.000 χ^2 /NDF: 5442544.4/78

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 $\pm$ 2.752 χ^2/NDF : 11.6/16

Left Out: 0.496 $\pm$ 1.499 χ^2/NDF : 18.5/21

Right Out: -1.861 $\pm$ 2.439 χ^2/NDF : 23.5/18

Left In: -0.968 $\pm$ 1.450 χ^2/NDF : 32.0/20

Left: -0.261 $\pm$ 1.042 χ^2/NDF : 51.0/42

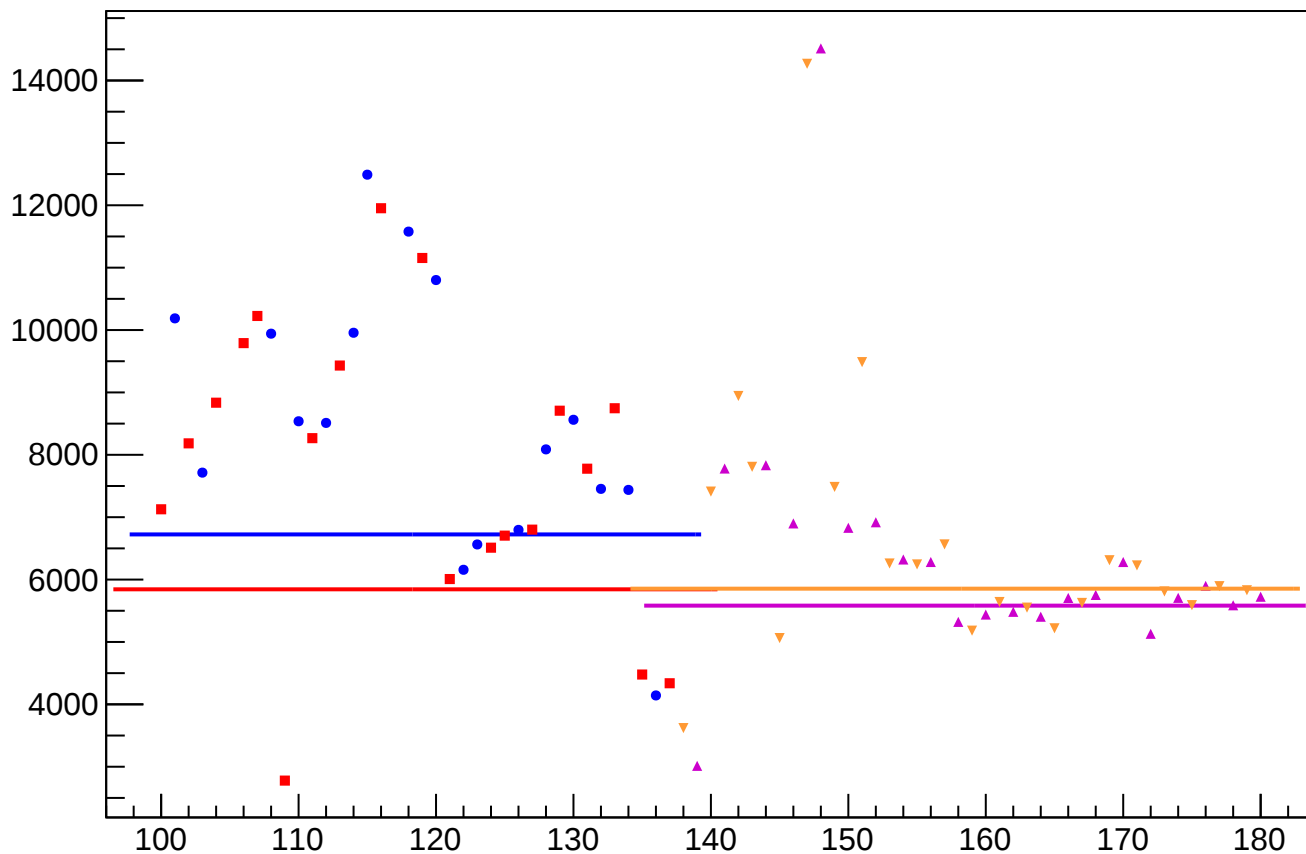
Right: 0.153 $\pm$ 1.825 χ^2/NDF : 36.7/35

In: -0.167 $\pm$ 1.283 χ^2/NDF : 45.1/37

Out: -0.151 $\pm$ 1.277 χ^2/NDF : 42.7/40

All: -0.159 $\pm$ 0.905 χ^2/NDF : 87.7/78

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839 ± 1.946 $\chi^2/\text{NDF}: 1392082.5/16$

Left Out: 5854.255 ± 1.060 $\chi^2/\text{NDF}: 1670922.3/21$

Right Out: 5843.829 ± 1.725 $\chi^2/\text{NDF}: 2277223.8/18$

Left In: 5582.251 ± 1.025 $\chi^2/\text{NDF}: 2086021.1/20$

Left: 5713.746 ± 0.737 $\chi^2/\text{NDF}: 3790956.8/42$

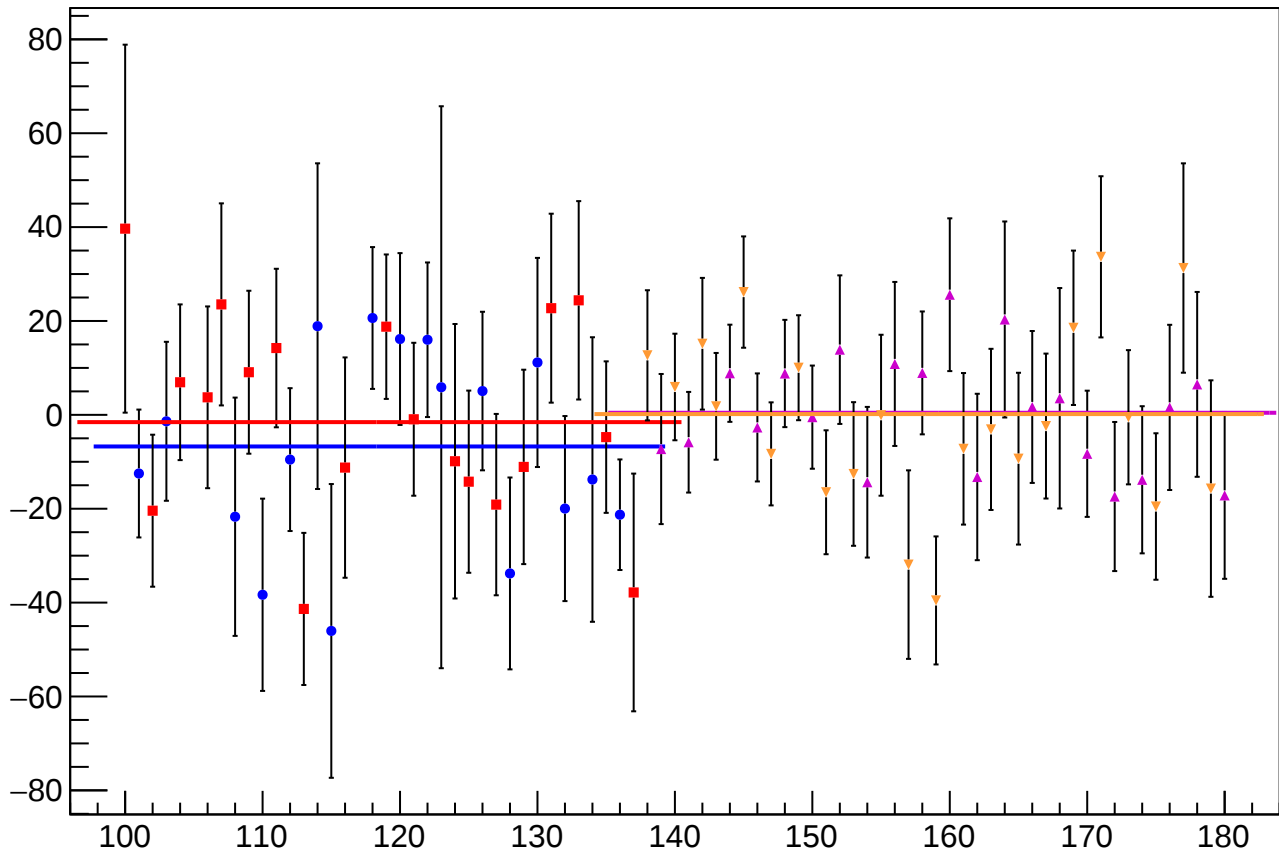
Right: 6230.943 ± 1.291 $\chi^2/\text{NDF}: 3783849.2/35$

In: 5830.359 ± 0.907 $\chi^2/\text{NDF}: 3747454.7/37$

Out: 5851.396 ± 0.903 $\chi^2/\text{NDF}: 3948172.7/40$

All: 5840.926 ± 0.640 $\chi^2/\text{NDF}: 7695897.5/78$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 ± 4.513 χ^2/NDF : 16.9/16

Left Out: 0.164 ± 3.088 χ^2/NDF : 31.3/21

Right Out: -1.549 ± 4.372 χ^2/NDF : 20.0/18

Left In: 0.444 ± 3.165 χ^2/NDF : 11.7/20

Left: 0.301 ± 2.210 χ^2/NDF : 43.1/42

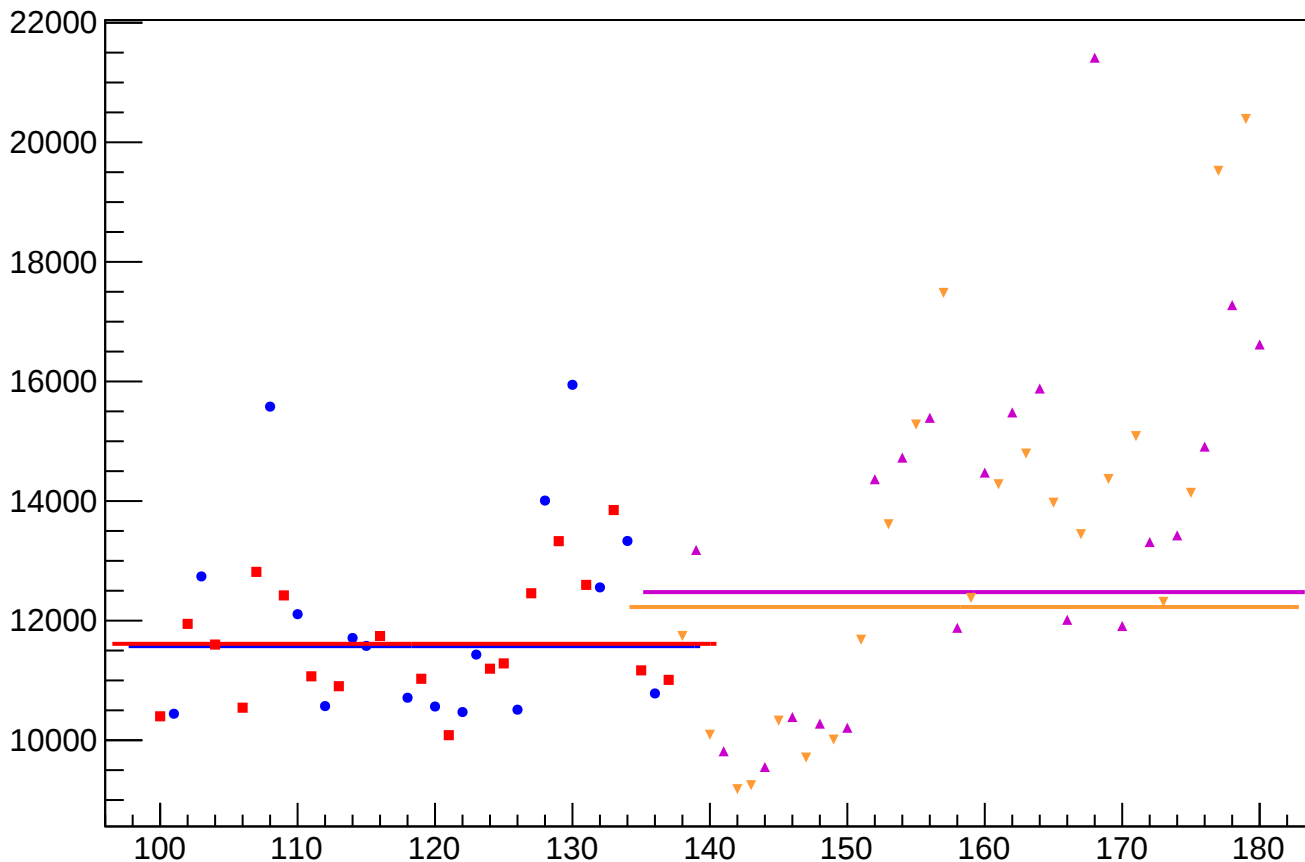
Right: -4.061 ± 3.140 χ^2/NDF : 37.5/35

In: -1.923 ± 2.591 χ^2/NDF : 30.3/37

Out: -0.407 ± 2.523 χ^2/NDF : 51.4/40

All: -1.144 ± 1.807 χ^2/NDF : 81.9/78

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 12227.951+/-2.184 χ^2/NDF : 1451907.1/21

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

Left In: 12477.296+/-2.238 χ^2/NDF : 1354000.3/20

Left: 12349.576+/-1.563 χ^2/NDF : 2812266.3/42

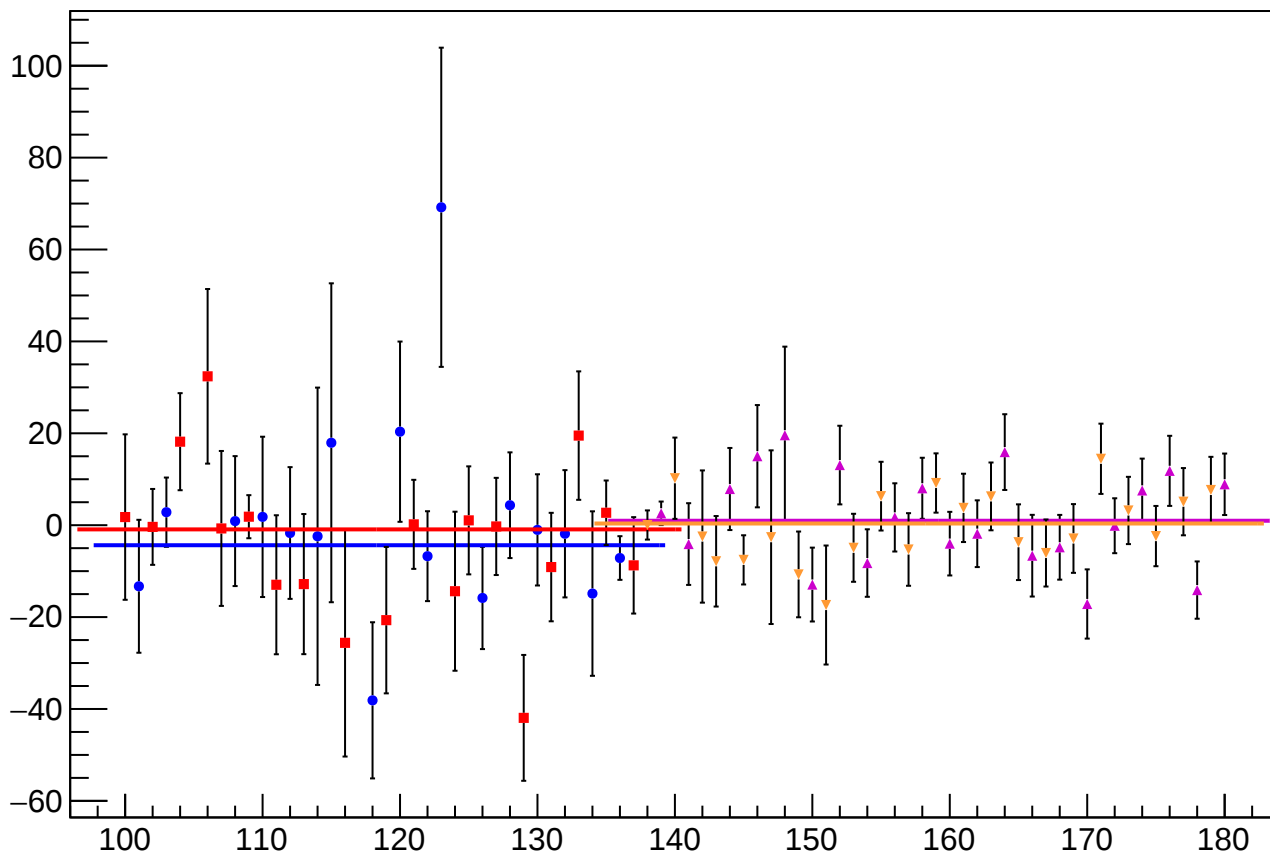
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 12179.337+/-1.832 χ^2/NDF : 1646506.9/37

Out: 12023.000+/-1.784 χ^2/NDF : 1572675.8/40

All: 12099.072+/-1.278 χ^2/NDF : 3222920.5/71

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 $\pm$ 2.776 χ^2/NDF : 14.5/16

Left Out: 0.366 $\pm$ 1.502 χ^2/NDF : 18.2/21

Right Out: -0.914 $\pm$ 2.426 χ^2/NDF : 23.5/18

Left In: 0.966 $\pm$ 1.420 χ^2/NDF : 32.9/20

Left: 0.683 $\pm$ 1.032 χ^2/NDF : 51.2/42

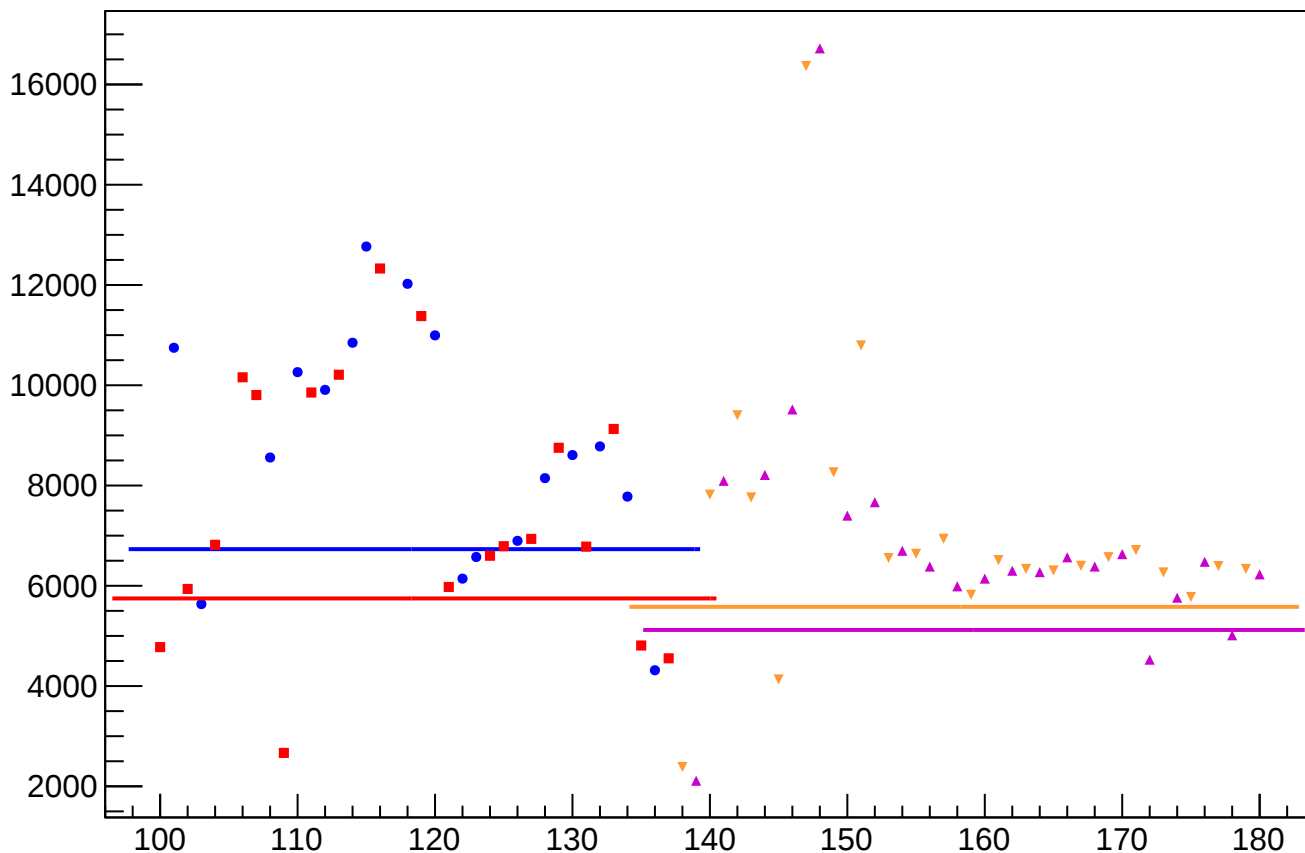
Right: -2.407 $\pm$ 1.827 χ^2/NDF : 38.9/35

In: -0.139 $\pm$ 1.264 χ^2/NDF : 50.4/37

Out: 0.011 $\pm$ 1.277 χ^2/NDF : 42.0/40

All: -0.064 $\pm$ 0.899 χ^2/NDF : 92.3/78

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725+/-1.963 χ^2/NDF : 1445240.4/16

Left Out: 5579.863+/-1.062 χ^2/NDF : 4052370.4/21

Right Out: 5747.643+/-1.716 χ^2/NDF : 2162236.7/18

Left In: 5119.139+/-1.004 χ^2/NDF : 5270878.6/20

Left: 5336.533+/-0.730 χ^2/NDF : 9422584.7/42

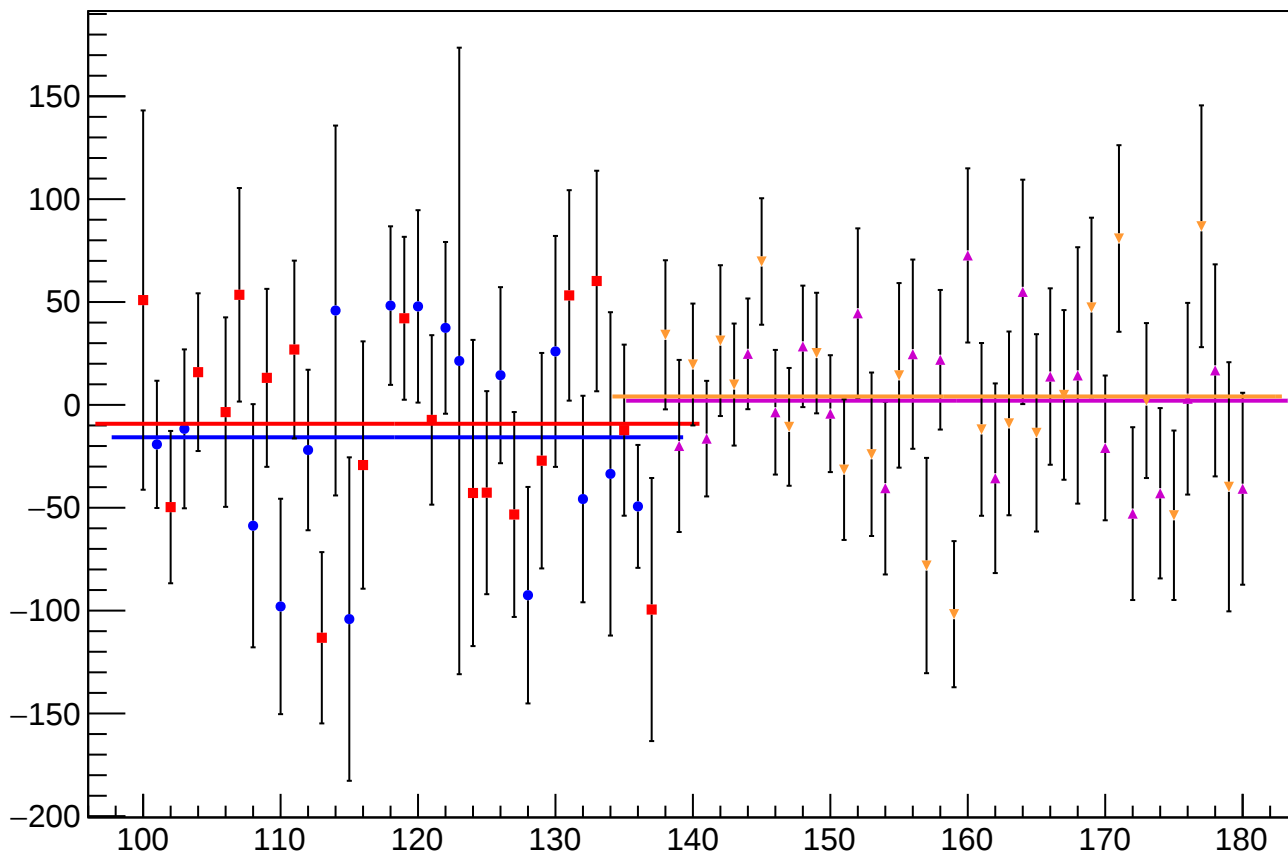
Right: 6173.310+/-1.292 χ^2/NDF : 3749669.1/35

In: 5453.342+/-0.894 χ^2/NDF : 7250291.7/37

Out: 5626.369+/-0.903 χ^2/NDF : 6221521.1/40

All: 5538.969+/-0.635 χ^2/NDF : 13490351.2/71

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 4.086 $\pm$ 8.077 χ^2/NDF : 28.6/21

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

Left In: 2.039 $\pm$ 8.273 χ^2/NDF : 13.7/20

Left: 3.087 $\pm$ 5.779 χ^2/NDF : 42.3/42

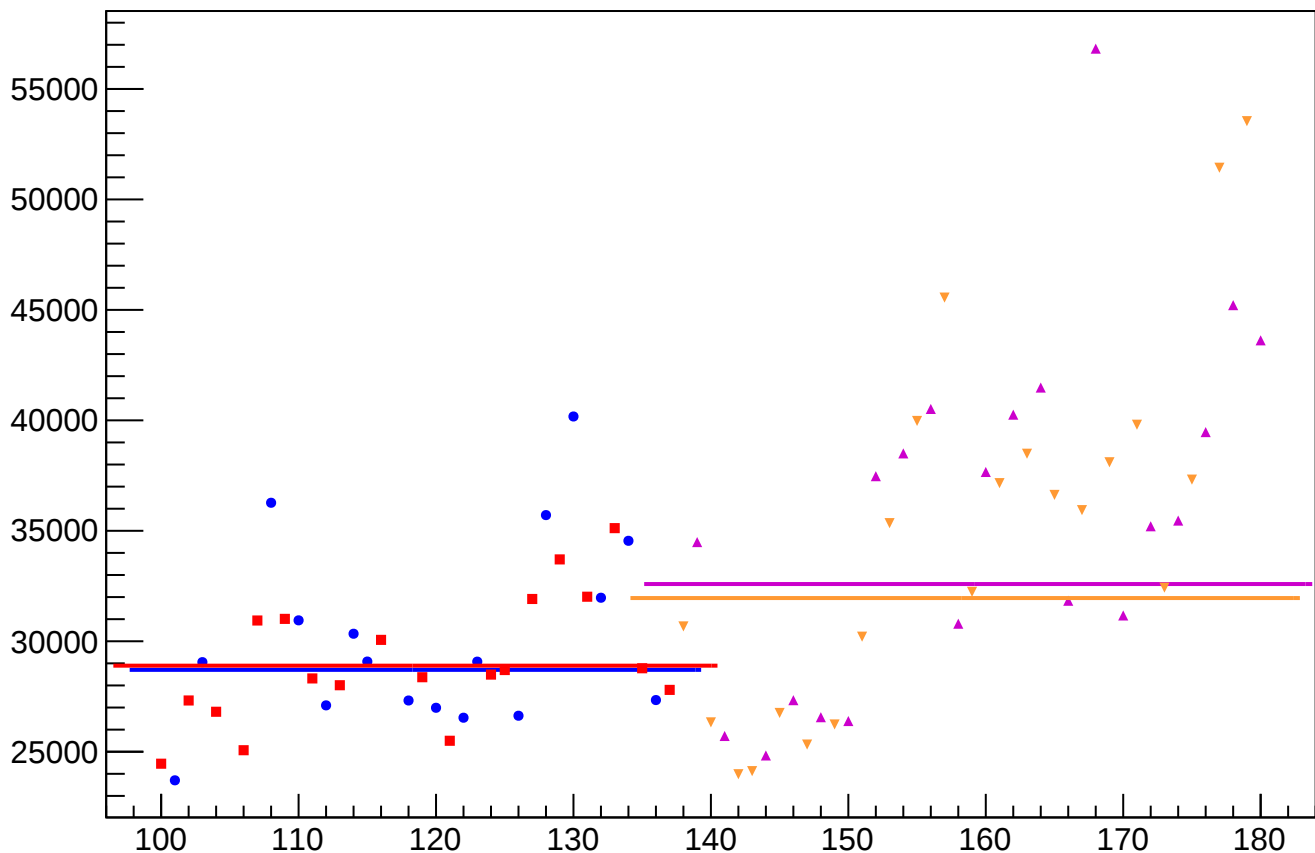
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -4.235 $\pm$ 6.656 χ^2/NDF : 31.3/37

Out: -0.622 $\pm$ 6.487 χ^2/NDF : 48.8/40

All: -2.382 $\pm$ 4.646 χ^2/NDF : 80.2/78

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925

χ^2/NDF : 250992.5/16

Left Out: 31956.080+/-5.711

χ^2/NDF : 1487290.9/21

Right Out: 28895.535+/-7.700

χ^2/NDF : 111212.6/18

Left In: 32590.592+/-5.850

χ^2/NDF : 1398291.4/20

Left: 32265.741+/-4.086 χ^2/NDF : 2891606.1/42

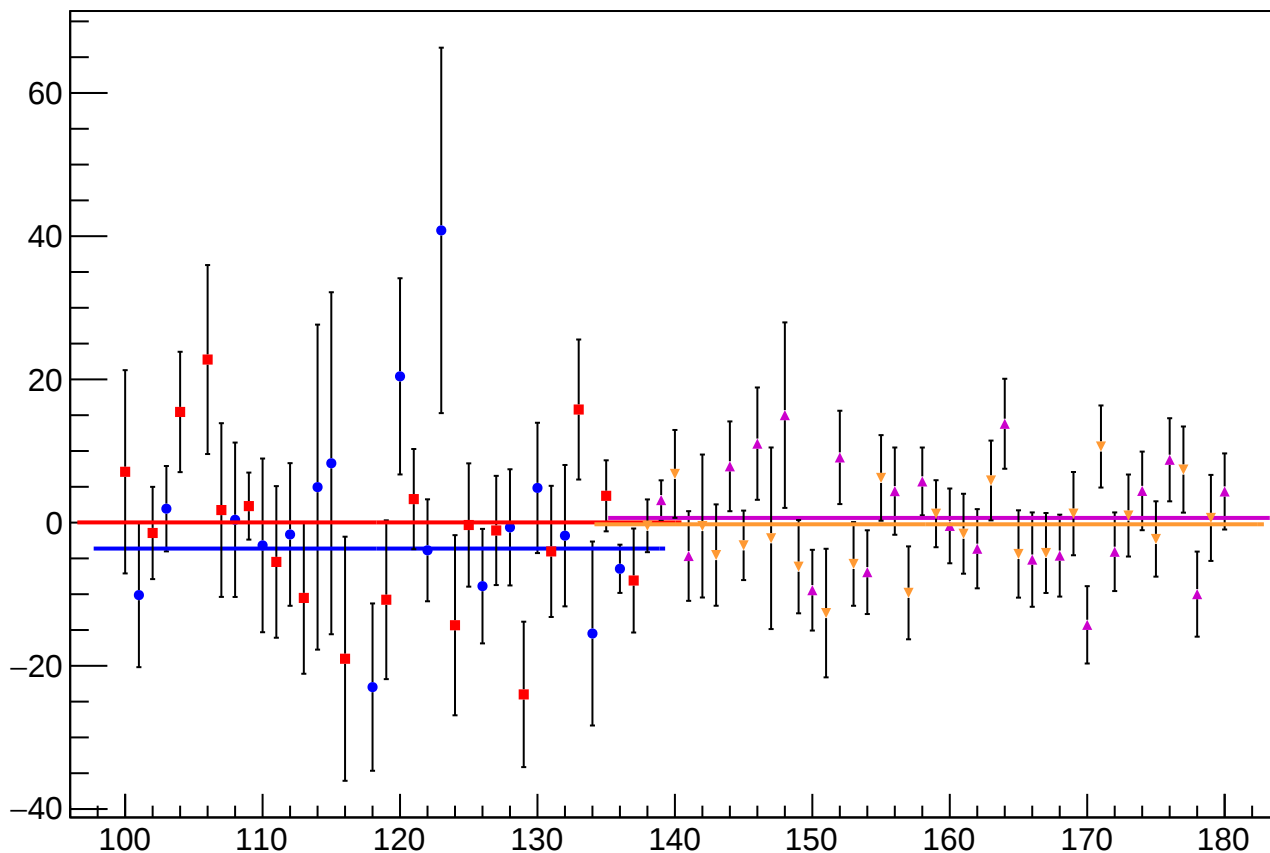
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

In: 31220.416+/-4.706 χ^2/NDF : 1804851.7/37

Out: 30869.870+/-4.587 χ^2/NDF : 1700423.8/40

All: 31040.645+/-3.285 χ^2/NDF : 3508120.6/71

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.234 ± 1.243 $\chi^2/\text{NDF}: 16.9/21$

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

Left In: 0.654 ± 1.193 $\chi^2/\text{NDF}: 35.1/20$

Left: 0.228 ± 0.861 $\chi^2/\text{NDF}: 52.3/42$

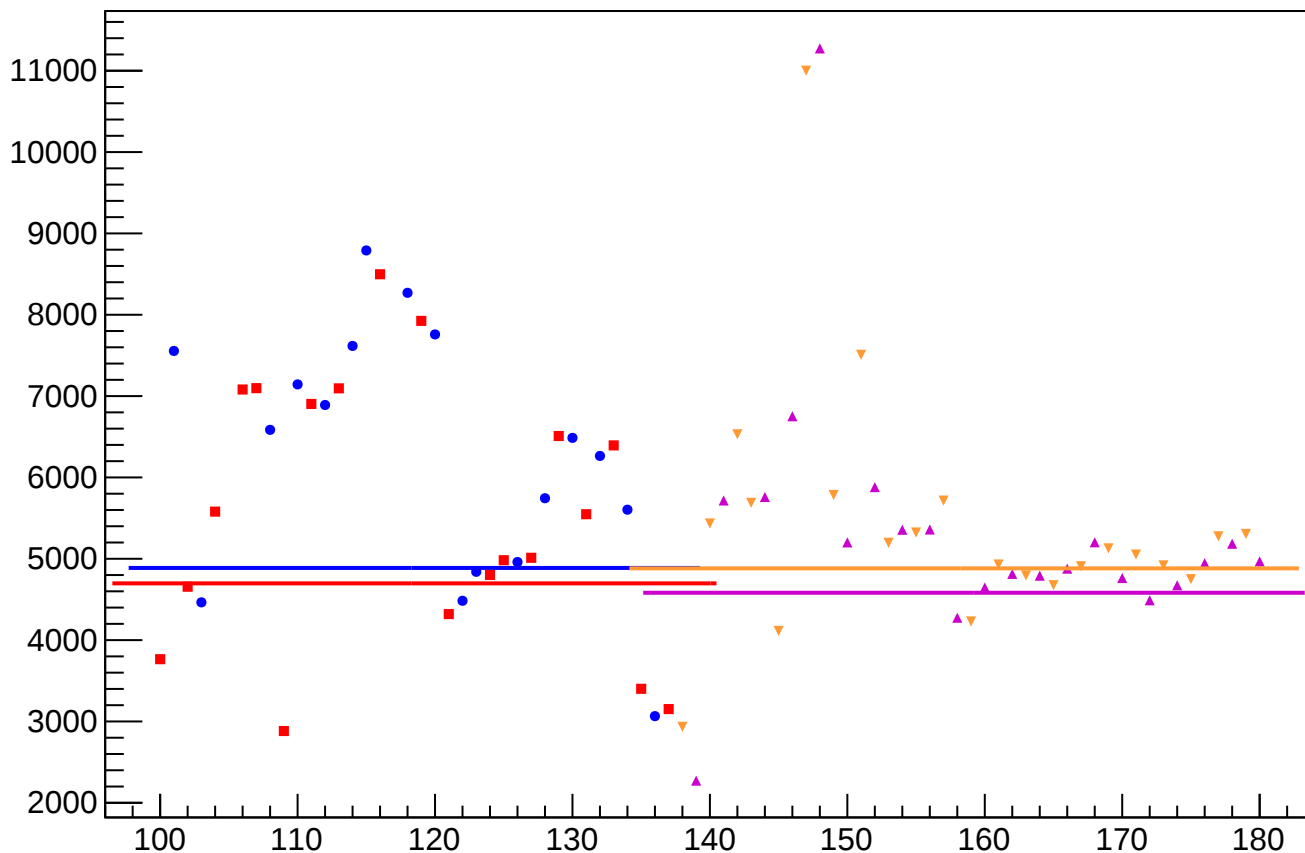
Right: -1.690 ± 1.376 $\chi^2/\text{NDF}: 37.6/35$

In: -0.464 ± 1.025 $\chi^2/\text{NDF}: 52.2/37$

Out: -0.155 ± 1.039 $\chi^2/\text{NDF}: 39.0/40$

All: -0.312 ± 0.730 $\chi^2/\text{NDF}: 91.2/78$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515 ± 1.418 $\chi^2/\text{NDF}: 1409296.8/16$

Left Out: 4882.094 ± 0.879 $\chi^2/\text{NDF}: 1497749.3/21$

Right Out: 4697.726 ± 1.336 $\chi^2/\text{NDF}: 1313121.0/18$

Left In: 4582.172 ± 0.844 $\chi^2/\text{NDF}: 2478112.6/20$

Left: 4725.958 ± 0.609 $\chi^2/\text{NDF}: 4036445.9/42$

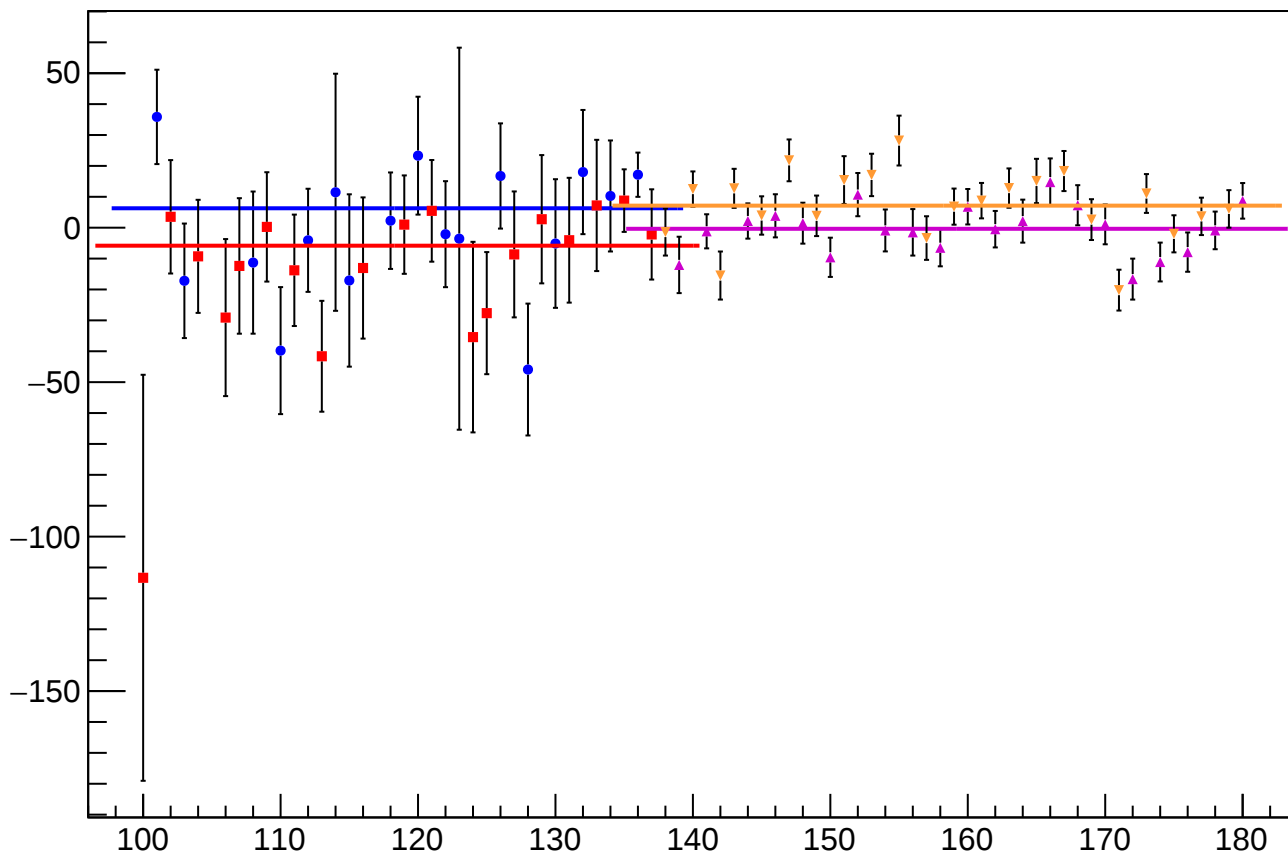
Right: 4786.972 ± 0.973 $\chi^2/\text{NDF}: 2731901.7/35$

In: 4661.967 ± 0.725 $\chi^2/\text{NDF}: 3921638.4/37$

Out: 4826.403 ± 0.734 $\chi^2/\text{NDF}: 2824154.0/40$

All: 4743.129 ± 0.516 $\chi^2/\text{NDF}: 6771174.9/78$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 $\pm$ 4.064 χ^2 /NDF: 22.5/16

Left Out: 7.138 $\pm$ 1.394 χ^2 /NDF: 54.6/21

Right Out: -5.828 $\pm$ 4.219 χ^2 /NDF: 13.8/18

Left In: -0.360 $\pm$ 1.406 χ^2 /NDF: 27.8/20

Left: 3.422 $\pm$ 0.990 χ^2 /NDF: 96.8/42

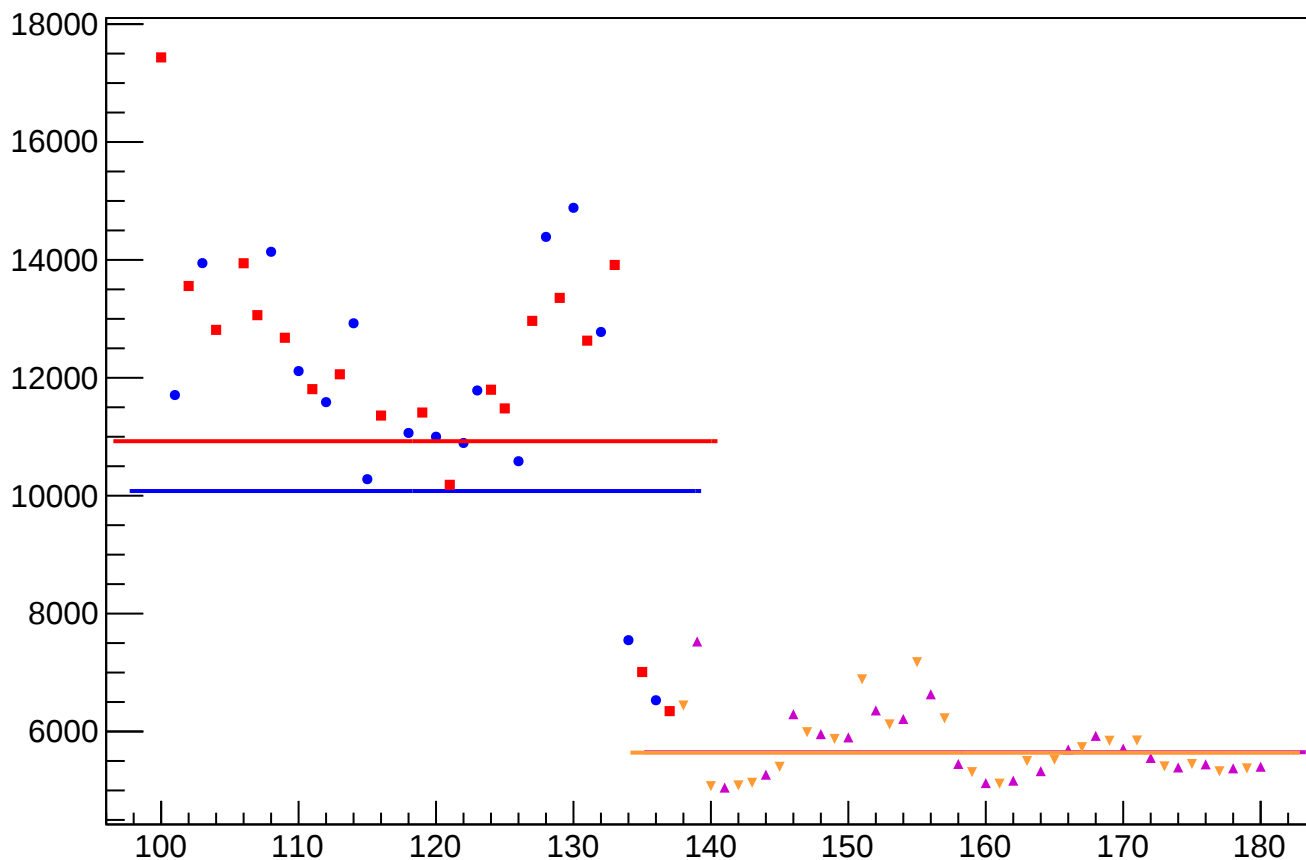
Right: 0.454 $\pm$ 2.927 χ^2 /NDF: 40.6/35

In: 0.350 $\pm$ 1.329 χ^2 /NDF: 52.8/37

Out: 5.862 $\pm$ 1.323 χ^2 /NDF: 76.9/40

All: 3.118 $\pm$ 0.938 χ^2 /NDF: 138.3/78

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5641.353 $\pm$ 0.986 χ^2 /NDF: 266407.8/21

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

Left In: 5648.812 $\pm$ 0.994 χ^2 /NDF: 264108.5/20

Left: 5645.049 $\pm$ 0.700 χ^2 /NDF: 530544.6/42

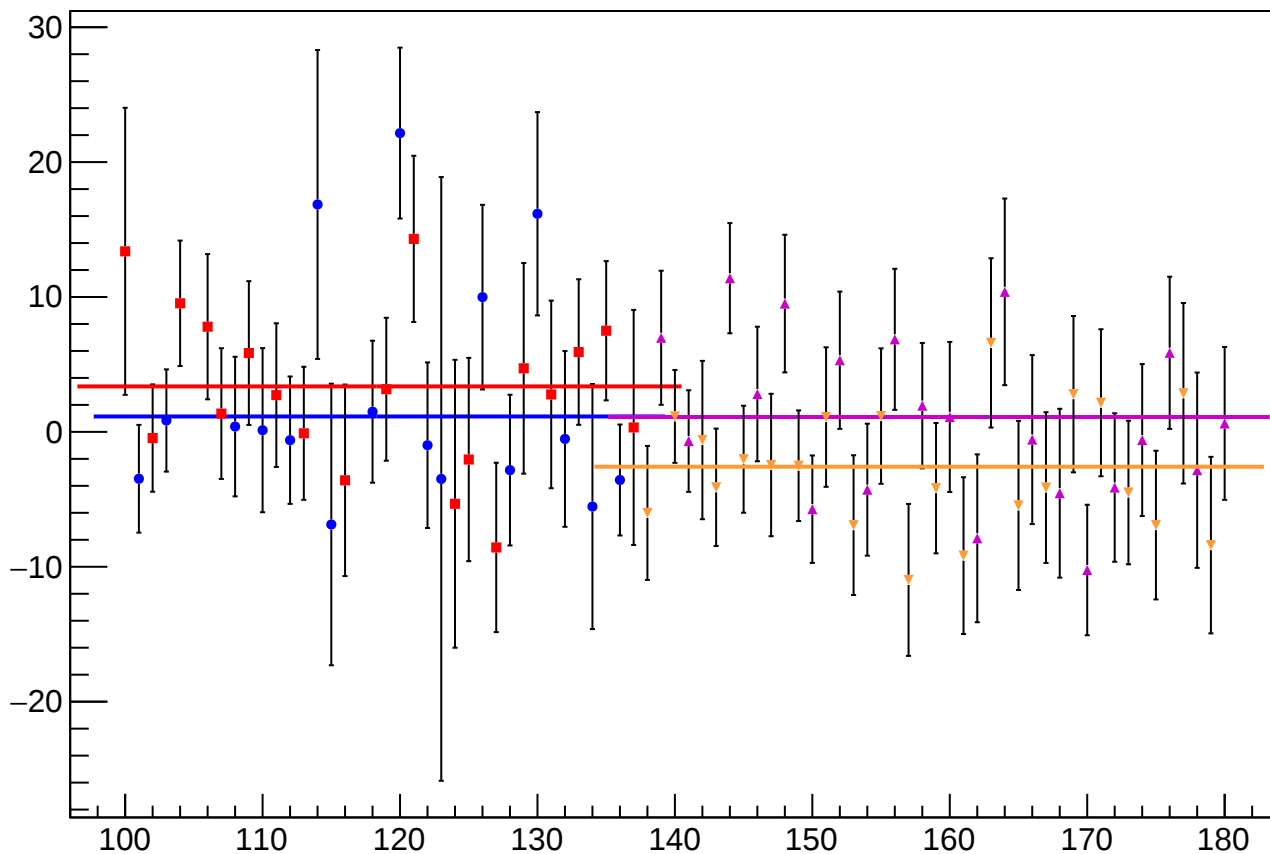
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6122.655 $\pm$ 0.940 χ^2 /NDF: 3381575.8/37

Out: 6161.236 $\pm$ 0.936 χ^2 /NDF: 3862322.2/40

All: 6142.027 $\pm$ 0.663 χ^2 /NDF: 7244744.2/78

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.581 ± 1.088 $\chi^2/\text{NDF}: 13.5/21$

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

Left In: 1.103 ± 1.122 $\chi^2/\text{NDF}: 29.2/20$

Left: -0.794 ± 0.781 $\chi^2/\text{NDF}: 48.3/42$

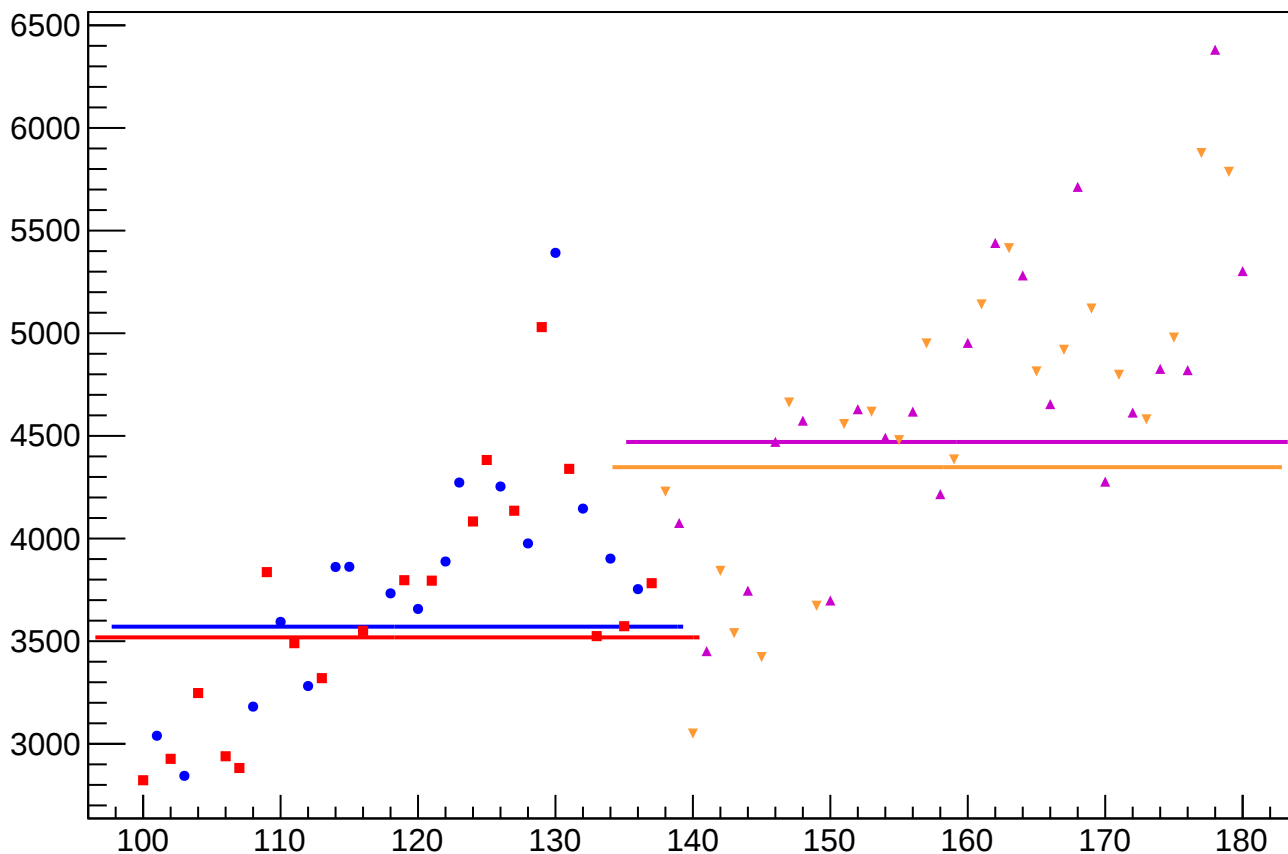
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.119 ± 0.874 $\chi^2/\text{NDF}: 52.4/37$

Out: -0.201 ± 0.843 $\chi^2/\text{NDF}: 40.6/40$

All: 0.435 ± 0.607 $\chi^2/\text{NDF}: 94.2/78$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4347.593 $\pm$ 0.770 χ^2 /NDF:980159.0/21

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

Left In: 4470.390 $\pm$ 0.793 χ^2 /NDF:681781.4/20

Left: 4407.141 $\pm$ 0.552 χ^2 /NDF: 1674287.1/42

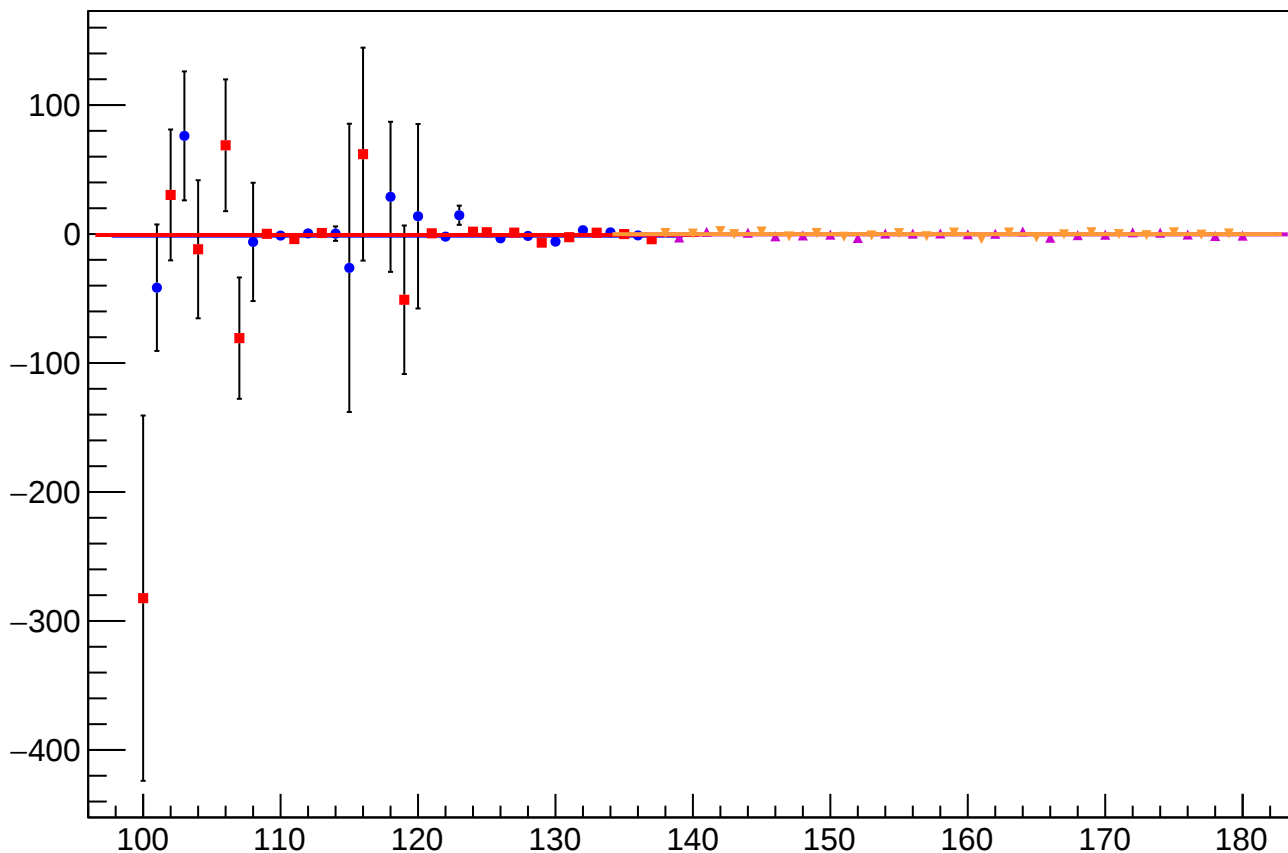
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 4117.191 $\pm$ 0.618 χ^2 /NDF:1496501.5/37

Out: 4016.067 $\pm$ 0.596 χ^2 /NDF:1737430.6/40

All: 4064.798 $\pm$ 0.429 χ^2 /NDF: 3247798.1/78

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.104 ± 0.260 χ^2/NDF : 34.0/21

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

Left In: -0.259 ± 0.263 χ^2/NDF : 26.9/20

Left: -0.181 ± 0.185 χ^2/NDF : 61.0/42

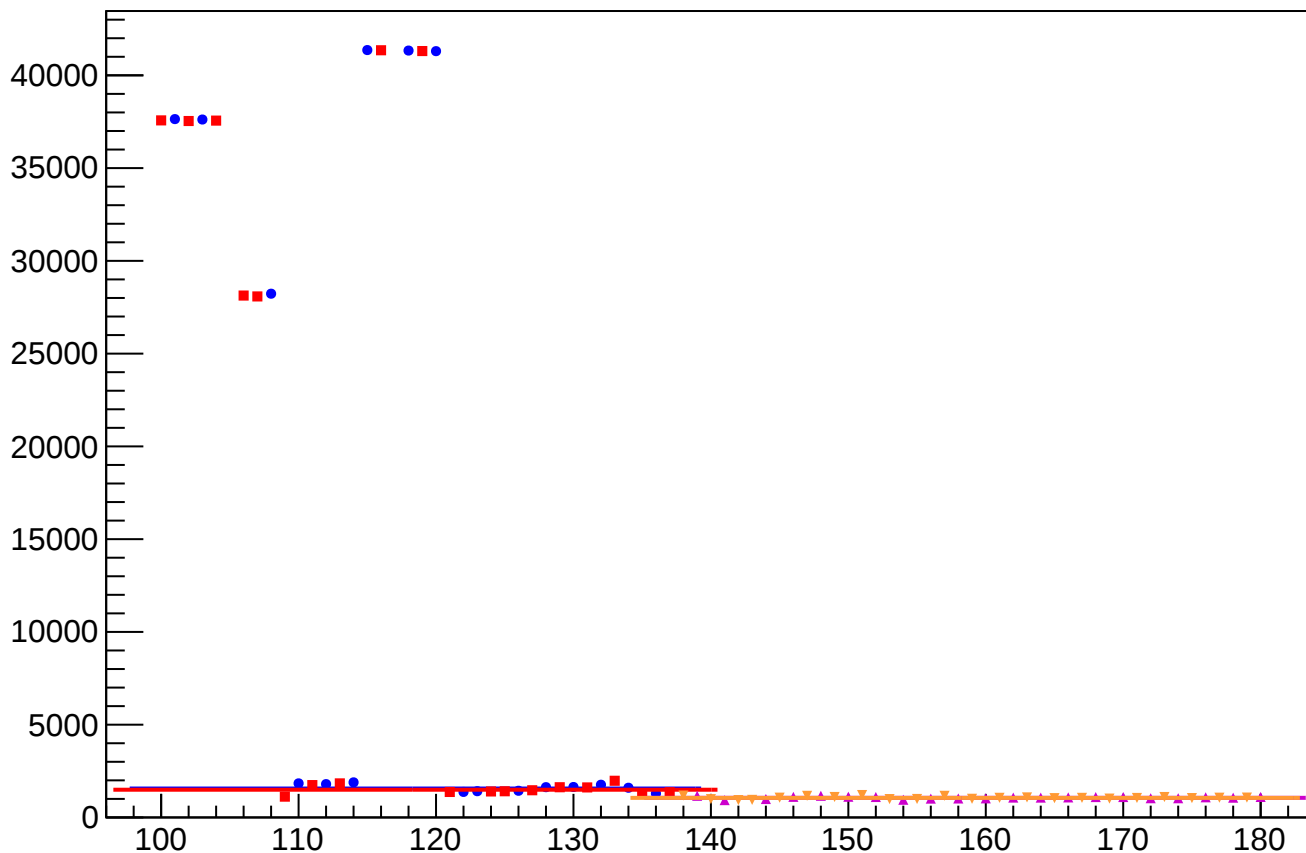
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.369 ± 0.248 χ^2/NDF : 44.8/37

Out: -0.179 ± 0.244 χ^2/NDF : 56.7/40

All: -0.272 ± 0.174 χ^2/NDF : 101.8/78

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.992 $\pm$ 0.184 χ^2 /NDF:135248.3/21

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

Left In: 1057.410 $\pm$ 0.186 χ^2 /NDF:110776.5/20

Left: 1056.188 $\pm$ 0.131 χ^2 /NDF: 246110.6/42

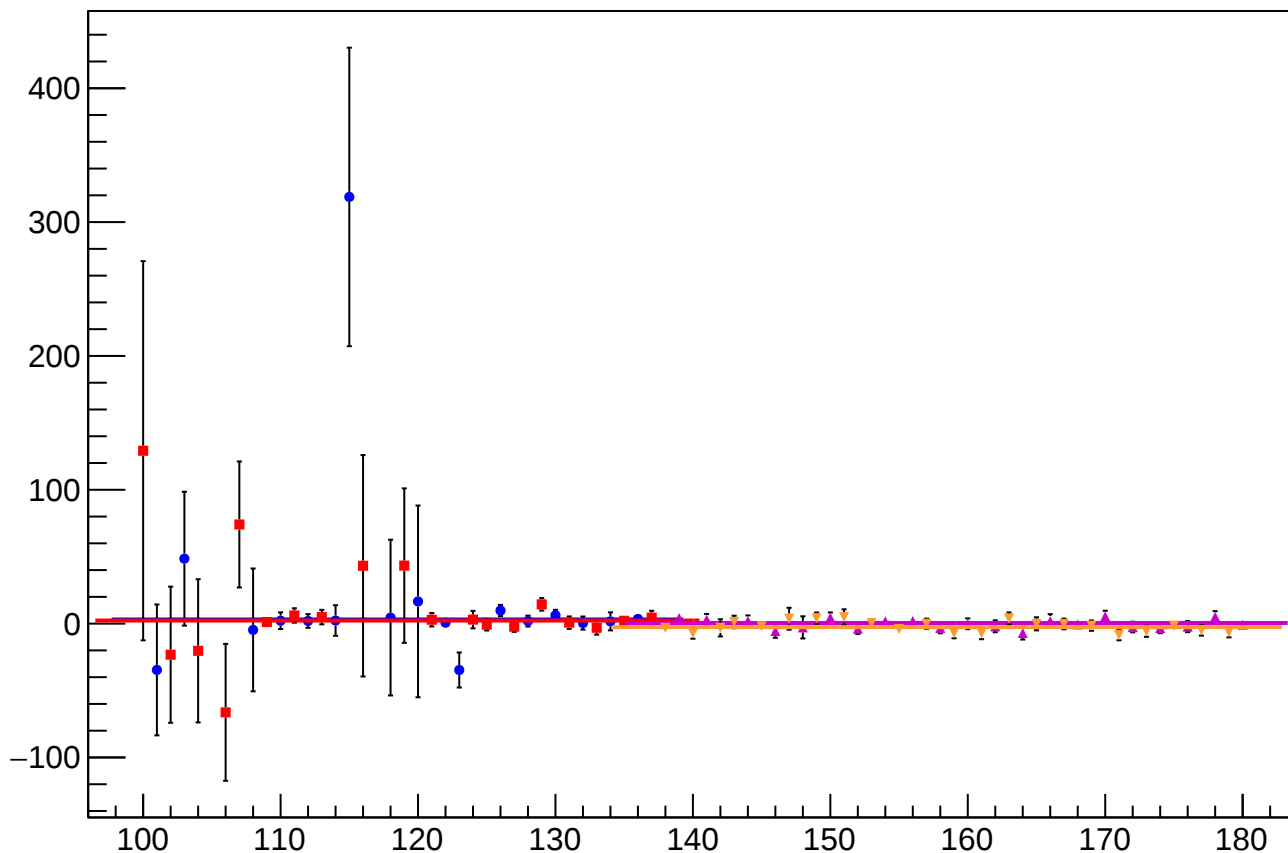
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1112.484 $\pm$ 0.175 χ^2 /NDF:5665301.7/37

Out: 1106.884 $\pm$ 0.173 χ^2 /NDF:5703900.8/40

All: 1109.641 $\pm$ 0.123 χ^2 /NDF: 11369721.0/71

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.621 ± 0.849 $\chi^2/\text{NDF}: 17.2/21$

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

Left In: 0.479 ± 0.866 $\chi^2/\text{NDF}: 15.4/20$

Left: -1.101 ± 0.606 $\chi^2/\text{NDF}: 39.1/42$

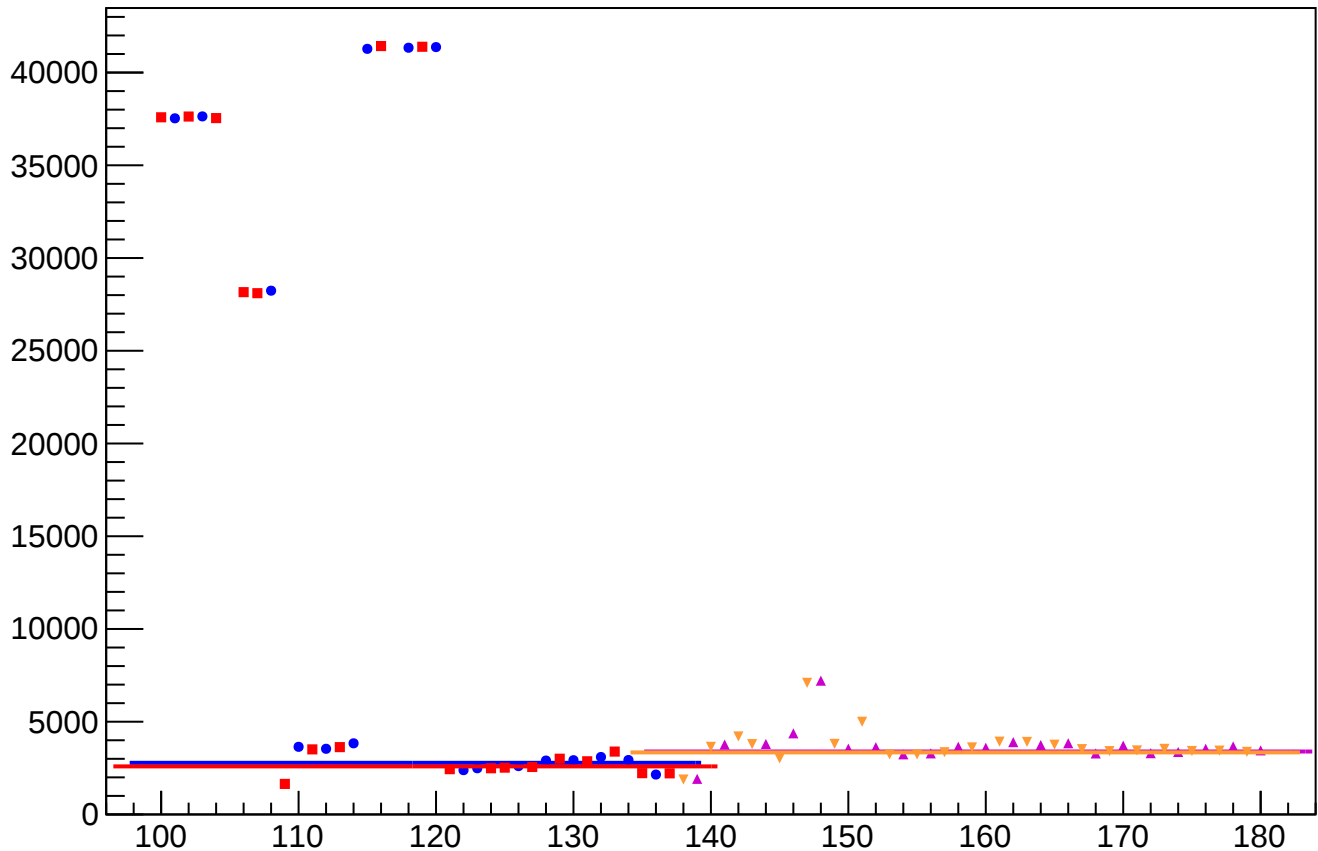
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.257 ± 0.725 $\chi^2/\text{NDF}: 40.0/37$

Out: -1.038 ± 0.700 $\chi^2/\text{NDF}: 44.9/40$

All: 0.070 ± 0.503 $\chi^2/\text{NDF}: 90.1/78$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2783.989 $\pm$ 0.936 χ^2 /NDF: 4577424.2/16

Left Out: 3345.666 $\pm$ 0.601 χ^2 /NDF:1627871.7/21

Right Out: 2591.161 $\pm$ 0.873 χ^2 /NDF: 4846722.1/18

Left In: 3393.312 $\pm$ 0.612 χ^2 /NDF:1416830.3/20

Left: 3369.034 $\pm$ 0.429 χ^2 /NDF: 3047787.9/42

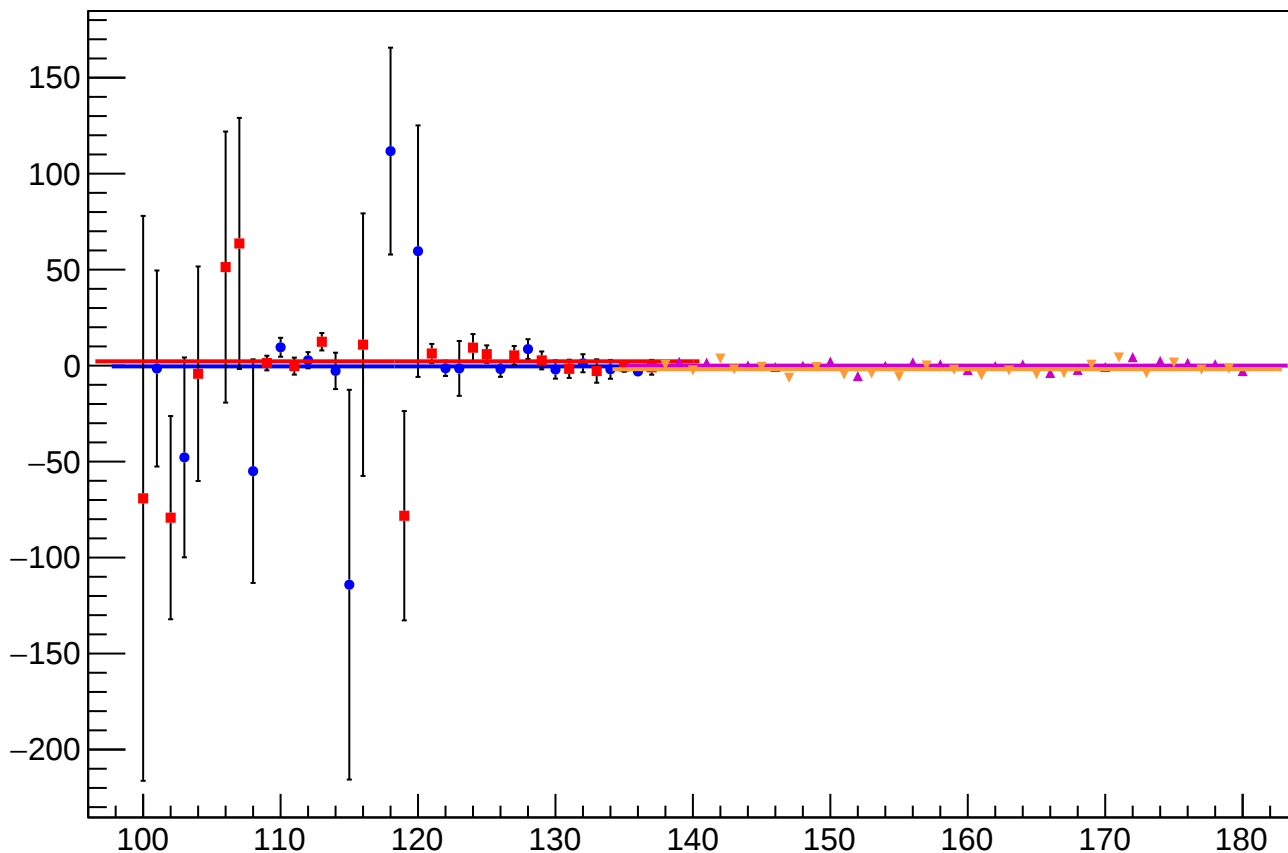
Right: 2680.897 $\pm$ 0.638 χ^2 /NDF: 9446853.4/35

In: 3210.634 $\pm$ 0.512 χ^2 /NDF:6291202.4/37

Out: 3103.219 $\pm$ 0.495 χ^2 /NDF:6981594.6/40

All: 3155.063 $\pm$ 0.356 χ^2 /NDF: 13295539.5/71

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.860 ± 0.409 χ^2/NDF : 42.5/21

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

Left In: -0.005 ± 0.413 χ^2/NDF : 27.6/20

Left: -0.942 ± 0.291 χ^2/NDF : 80.2/42

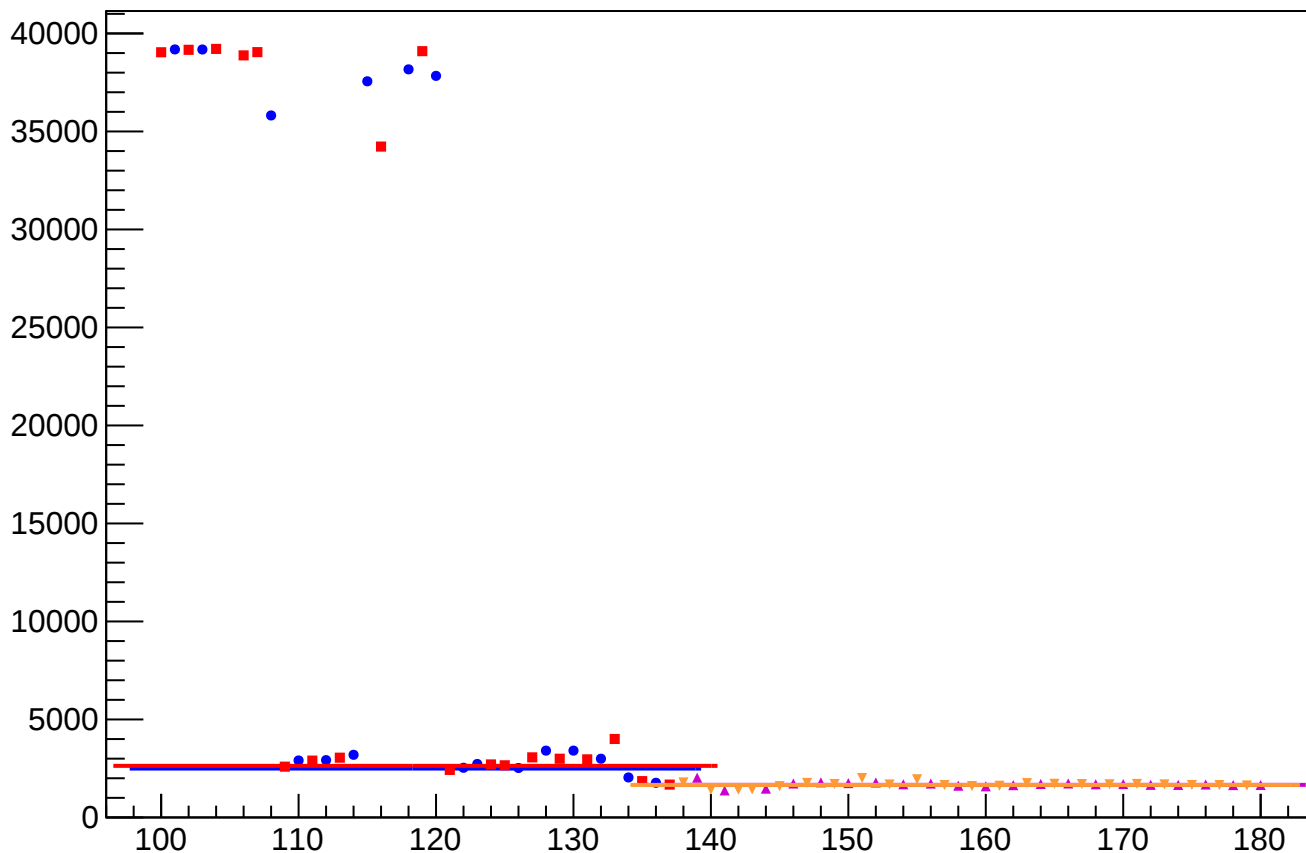
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.046 ± 0.391 χ^2/NDF : 45.9/37

Out: -1.460 ± 0.389 χ^2/NDF : 69.7/40

All: -0.758 ± 0.276 χ^2/NDF : 122.2/78

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1658.989 $\pm$ 0.289 χ^2/NDF : 215331.3/21

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

Left In: 1662.473 $\pm$ 0.292 χ^2/NDF : 178472.9/20

Left: 1660.714 $\pm$ 0.206 χ^2/NDF : 393875.9/42

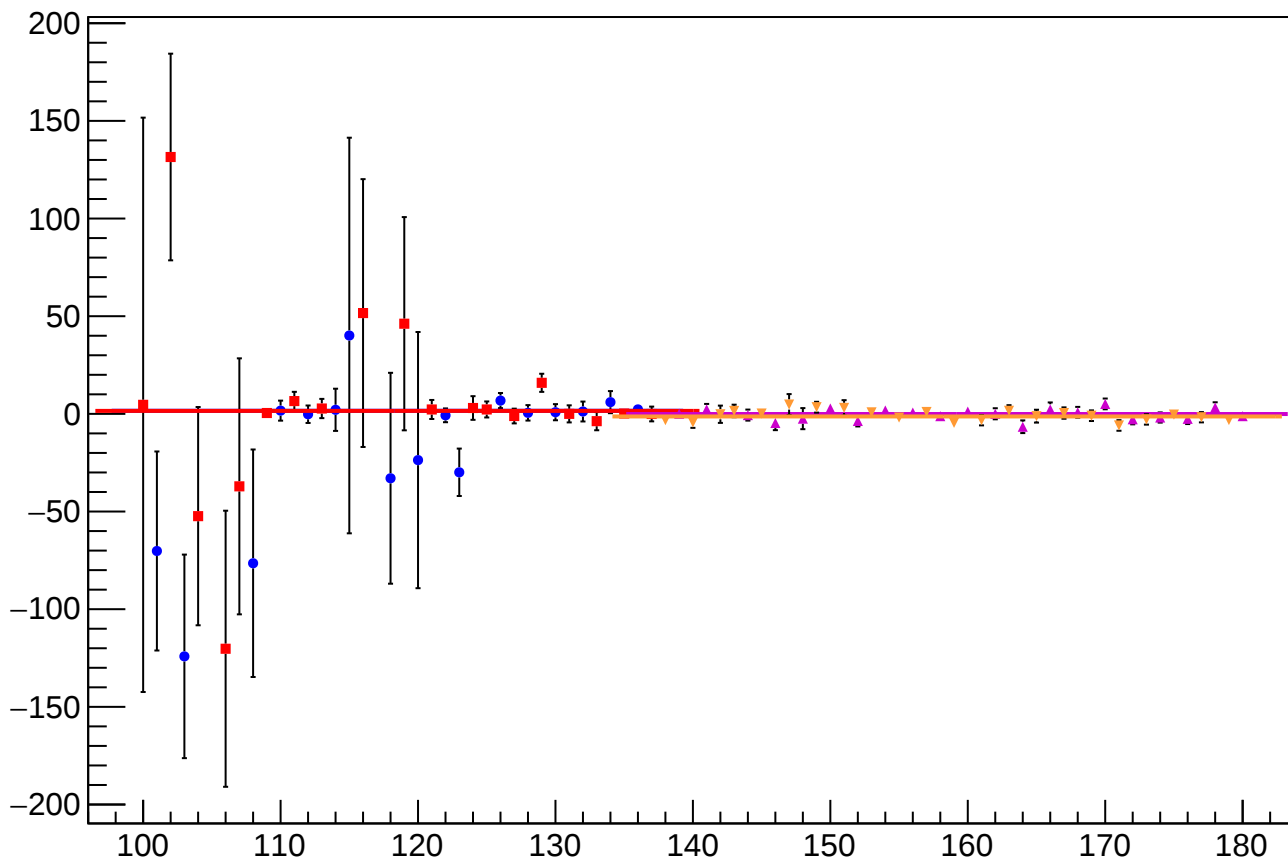
Right: 2562.854 $\pm$ 0.616 χ^2/NDF : 9755329.9/35

In: 1748.565 $\pm$ 0.277 χ^2/NDF : 5900098.0/37

Out: 1753.890 $\pm$ 0.275 χ^2/NDF : 6179630.1/40

All: 1751.245 $\pm$ 0.195 χ^2/NDF : 12079914.4/7

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.323 ± 0.563 $\chi^2/\text{NDF}: 19.1/21$

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

Left In: -0.080 ± 0.557 $\chi^2/\text{NDF}: 18.9/20$

Left: -0.696 ± 0.396 $\chi^2/\text{NDF}: 40.4/42$

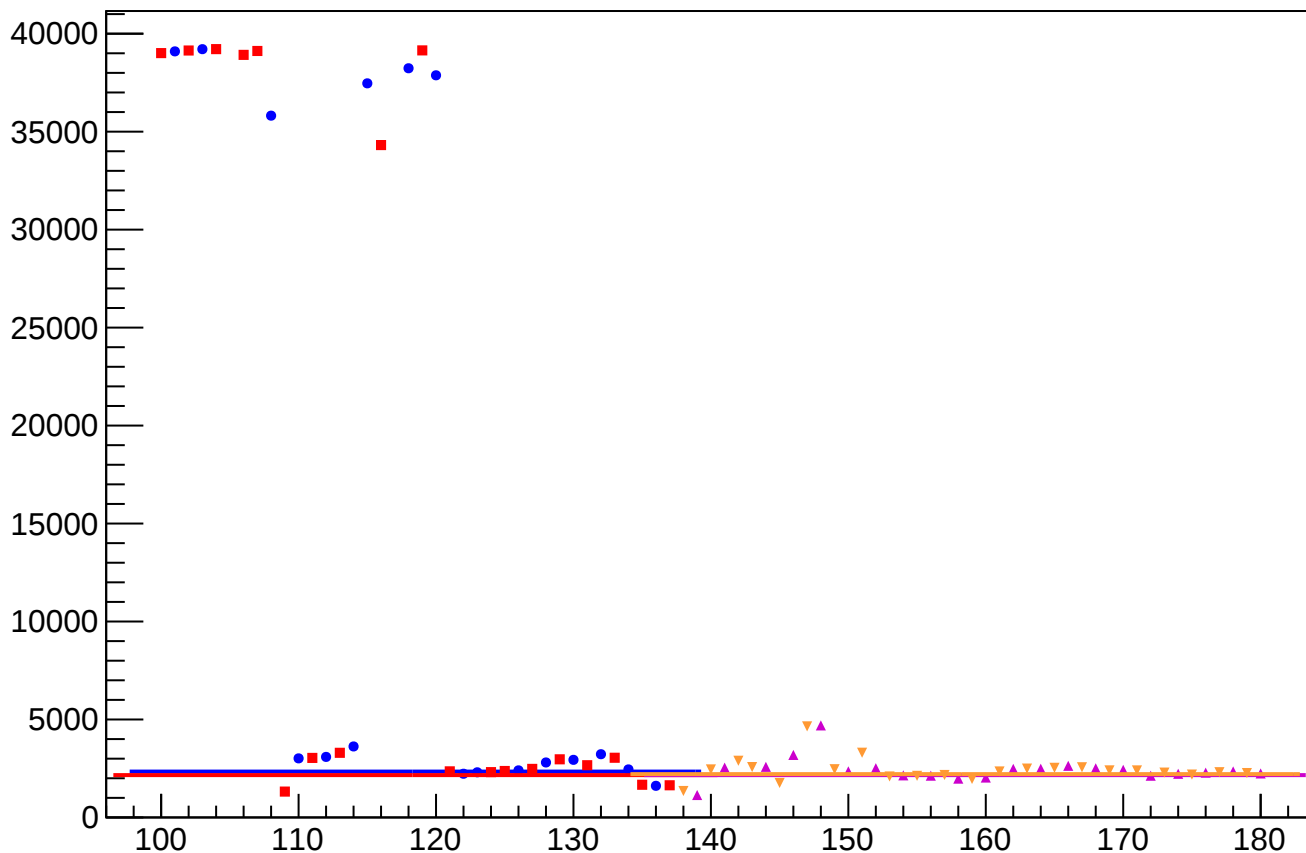
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.238 ± 0.501 $\chi^2/\text{NDF}: 40.9/37$

Out: -0.699 ± 0.497 $\chi^2/\text{NDF}: 49.7/40$

All: -0.234 ± 0.353 $\chi^2/\text{NDF}: 92.3/78$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2211.209+/-0.398 χ^2/NDF : 1408759.1/21

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

Left In: 2160.518+/-0.394 χ^2/NDF : 1965701.8/20

Left: 2185.608+/-0.280 χ^2/NDF : 3382656.8/42

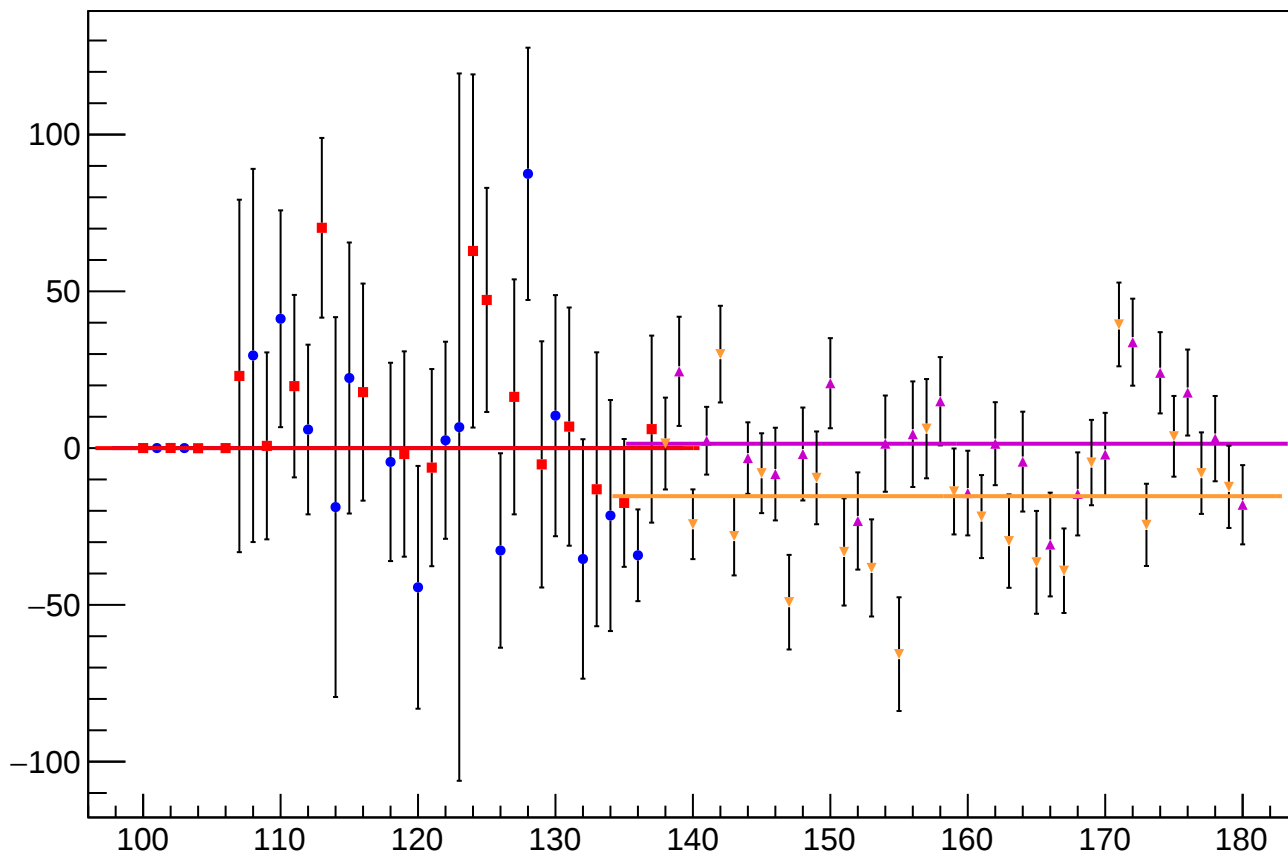
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2195.191+/-0.354 χ^2/NDF : 7012920.7/37

Out: 2200.240+/-0.352 χ^2/NDF : 6711276.4/40

All: 2197.733+/-0.250 χ^2/NDF : 13724299.5/77

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.328 ± 2.983 $\chi^2/\text{NDF}: 56.4/21$

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

Left In: 1.396 ± 3.032 $\chi^2/\text{NDF}: 26.8/20$

Left: -7.102 ± 2.126 $\chi^2/\text{NDF}: 98.7/42$

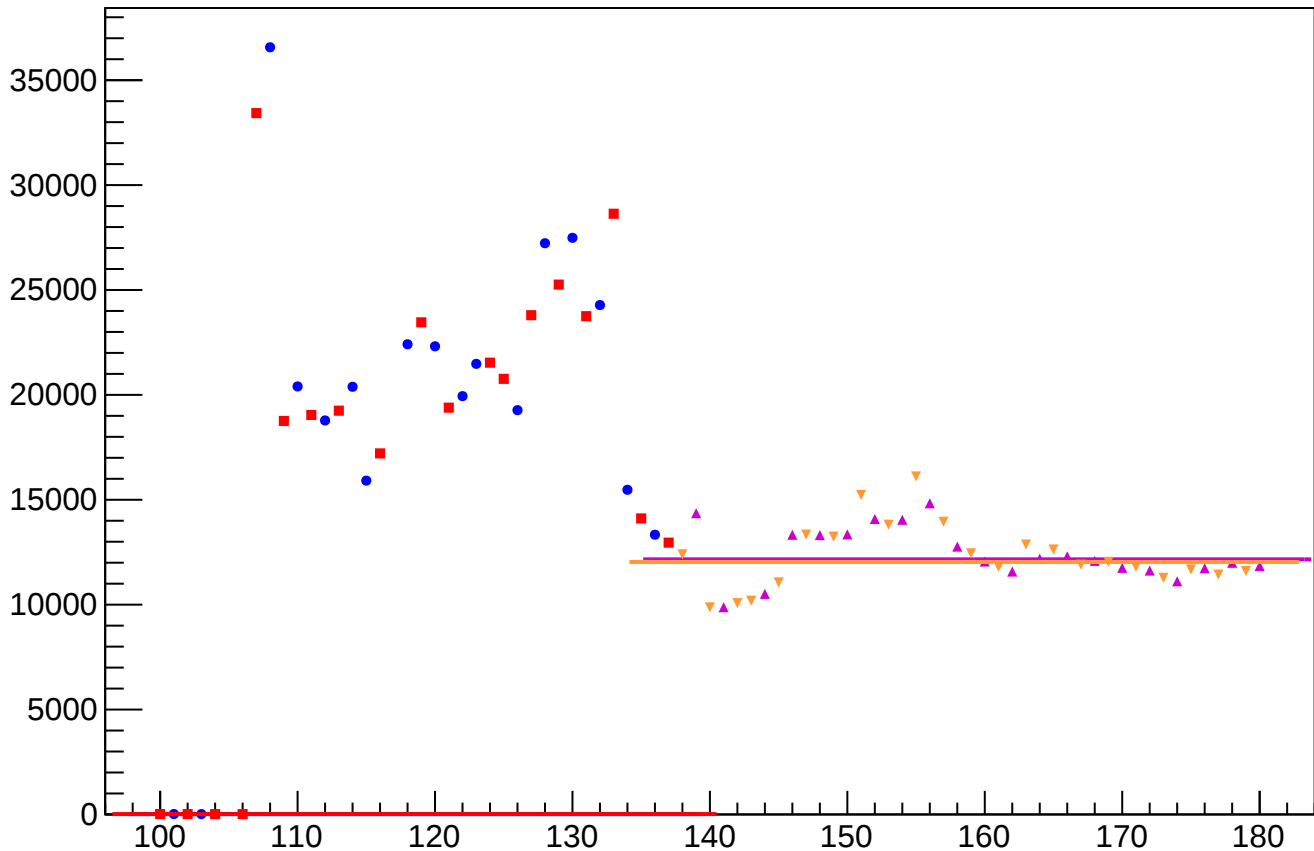
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 43.1/37$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 98.7/40$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 142.3/78$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.642 $\pm$ 0.012 χ^2 /NDF: 10984160.5/16

Left Out: 12036.458 $\pm$ 2.109 χ^2 /NDF:445363.0/21

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11110665.6/18

Left In: 12159.973 $\pm$ 2.144 χ^2 /NDF:341782.1/20

Left: 12097.212 $\pm$ 1.504 χ^2 /NDF: 788831.8/42

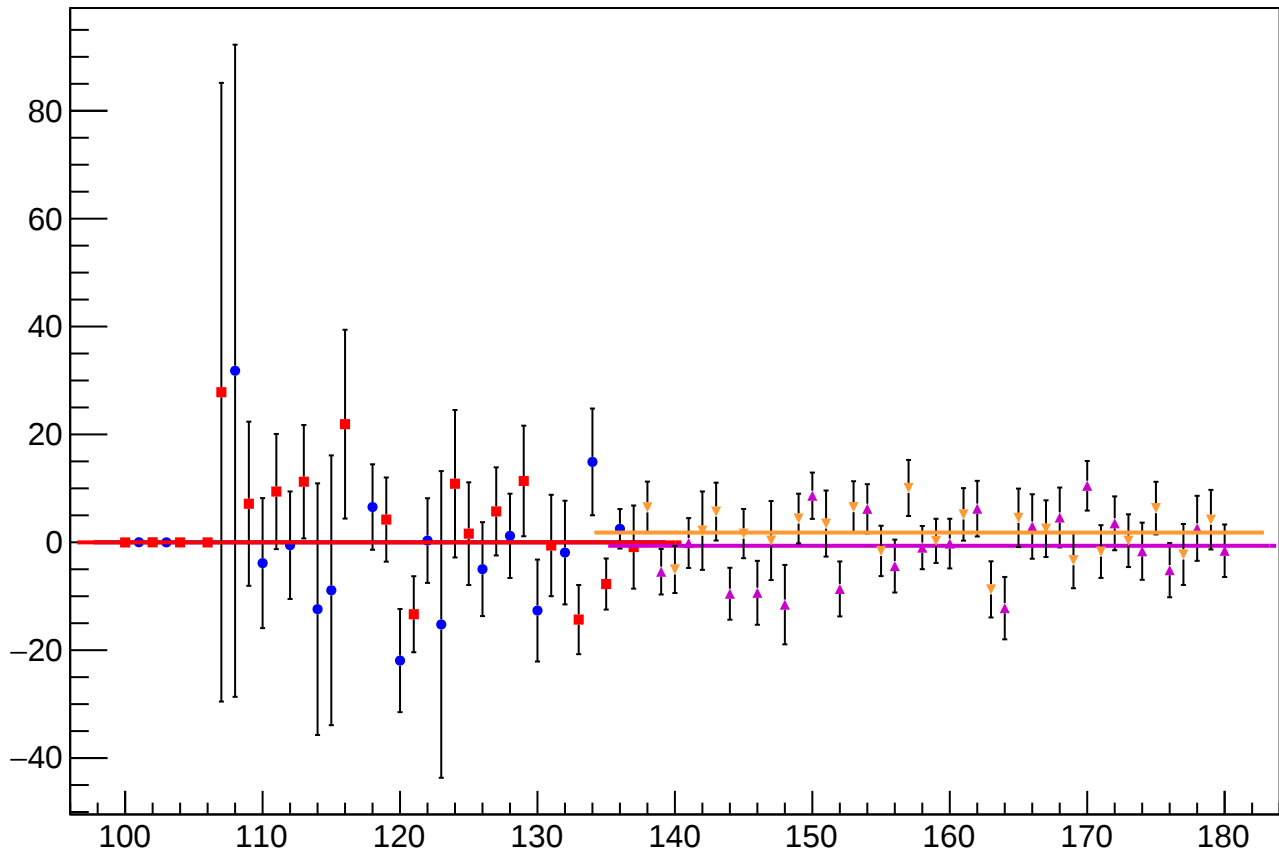
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 19.039 $\pm$ 0.012 χ^2 /NDF:43400113.9/37

Out: 18.660 $\pm$ 0.011 χ^2 /NDF:44020508.6/40

All: 18.835 $\pm$ 0.008 χ^2 /NDF: 87421134.5/78

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 13.0/16$

Left Out: 1.806 ± 1.083 $\chi^2/\text{NDF}: 16.5/21$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 18.6/18$

Left In: -0.646 ± 1.088 $\chi^2/\text{NDF}: 33.8/20$

Left: 0.585 ± 0.767 $\chi^2/\text{NDF}: 52.9/42$

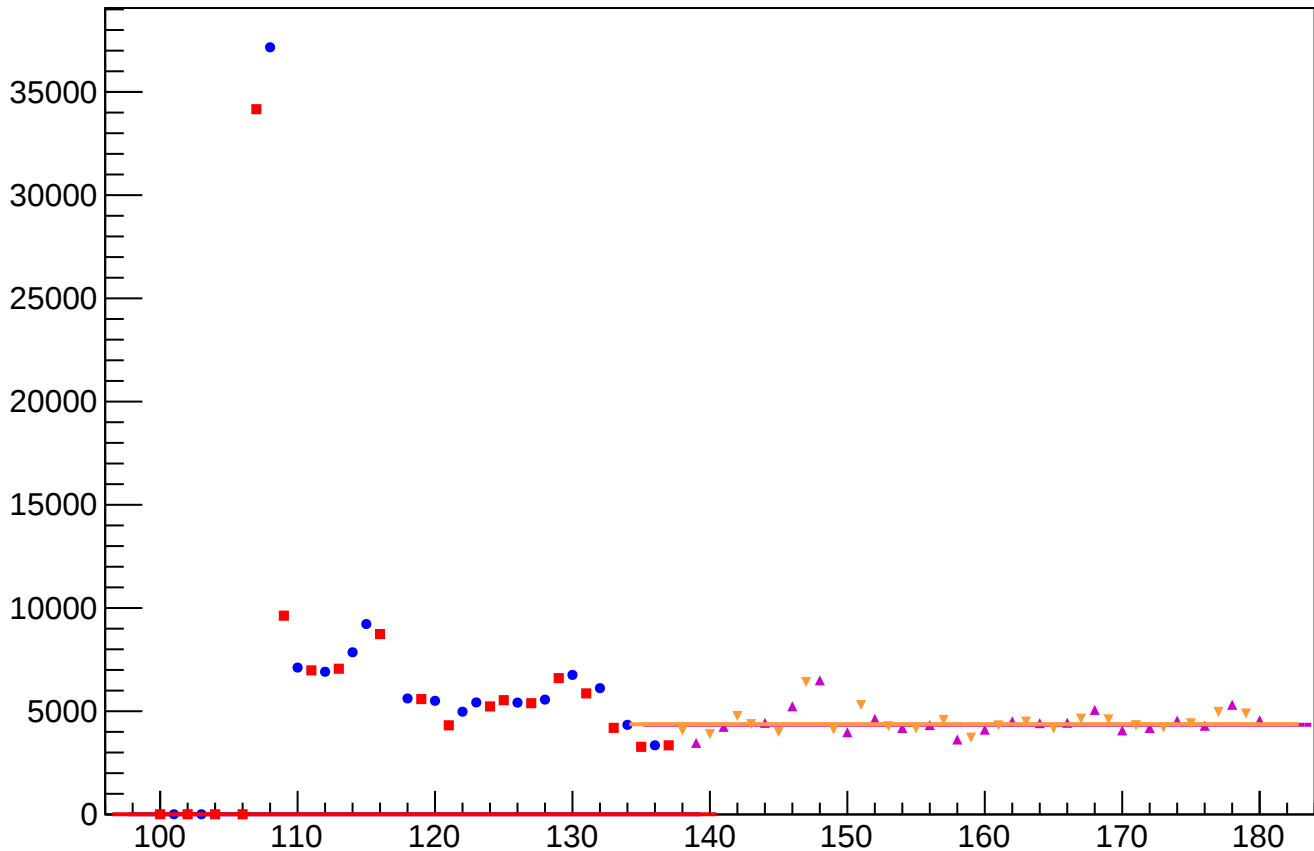
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 47.2/37$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 37.9/40$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 86.5/78$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4370.668 ± 0.766 χ^2/NDF : 373366.7/21

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

Left In: 4345.009 ± 0.769 χ^2/NDF : 500558.0/20

Left: 4357.894 ± 0.543 χ^2/NDF : 874483.6/42

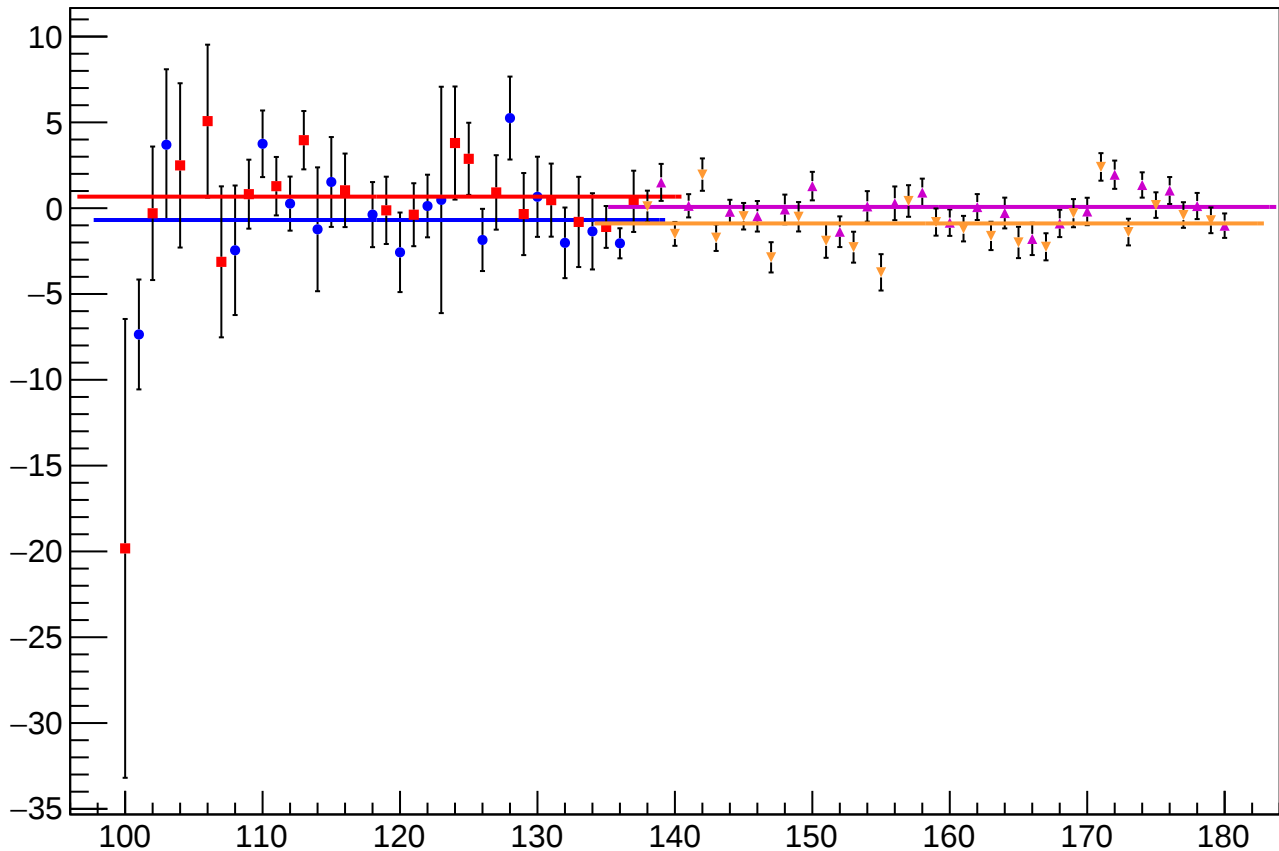
Right: 9.894 ± 0.004 χ^2/NDF : 22274609.0/35

In: 10.249 ± 0.007 χ^2/NDF : 43383209.3/37

Out: 10.133 ± 0.006 χ^2/NDF : 43959718.4/40

All: 10.187 ± 0.004 χ^2/NDF : 87343098.5/78

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 $\chi^2/\text{NDF}: 22.5/16$

Left Out: -0.889 ± 0.176 $\chi^2/\text{NDF}: 56.1/21$

Right Out: 0.672 ± 0.501 $\chi^2/\text{NDF}: 13.3/18$

Left In: 0.073 ± 0.177 $\chi^2/\text{NDF}: 27.3/20$

Left: -0.413 ± 0.125 $\chi^2/\text{NDF}: 98.3/42$

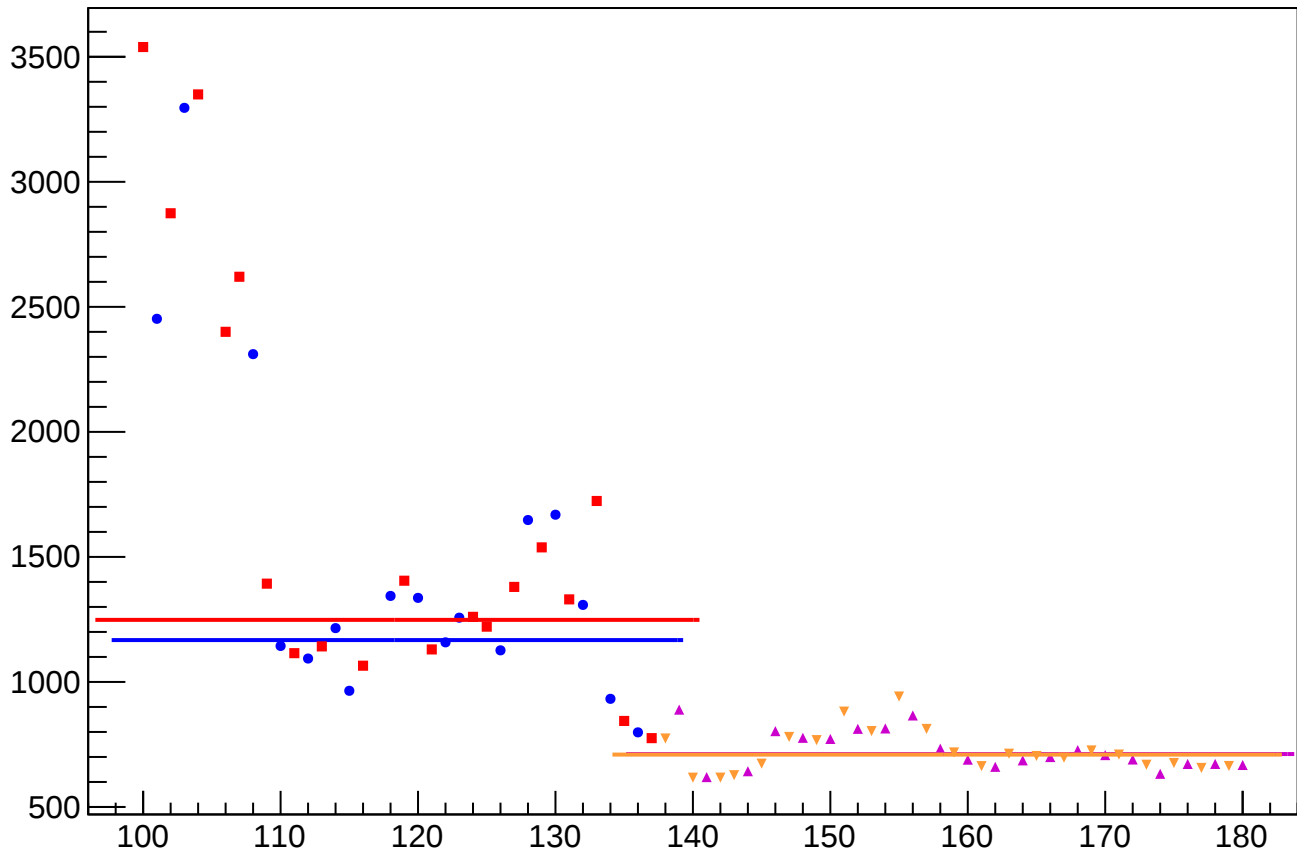
Right: -0.034 ± 0.347 $\chi^2/\text{NDF}: 39.7/35$

In: -0.018 ± 0.166 $\chi^2/\text{NDF}: 52.0/37$

Out: -0.718 ± 0.166 $\chi^2/\text{NDF}: 78.1/40$

All: -0.370 ± 0.117 $\chi^2/\text{NDF}: 139.0/78$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 ± 0.341 $\chi^2/\text{NDF}: 1578328.1/16$

Left Out: 709.522 ± 0.124 $\chi^2/\text{NDF}: 352655.6/21$

Right Out: 1248.241 ± 0.354 $\chi^2/\text{NDF}: 1654028.9/18$

Left In: 711.662 ± 0.125 $\chi^2/\text{NDF}: 312498.2/20$

Left: 710.581 ± 0.088 $\chi^2/\text{NDF}: 665301.0/42$

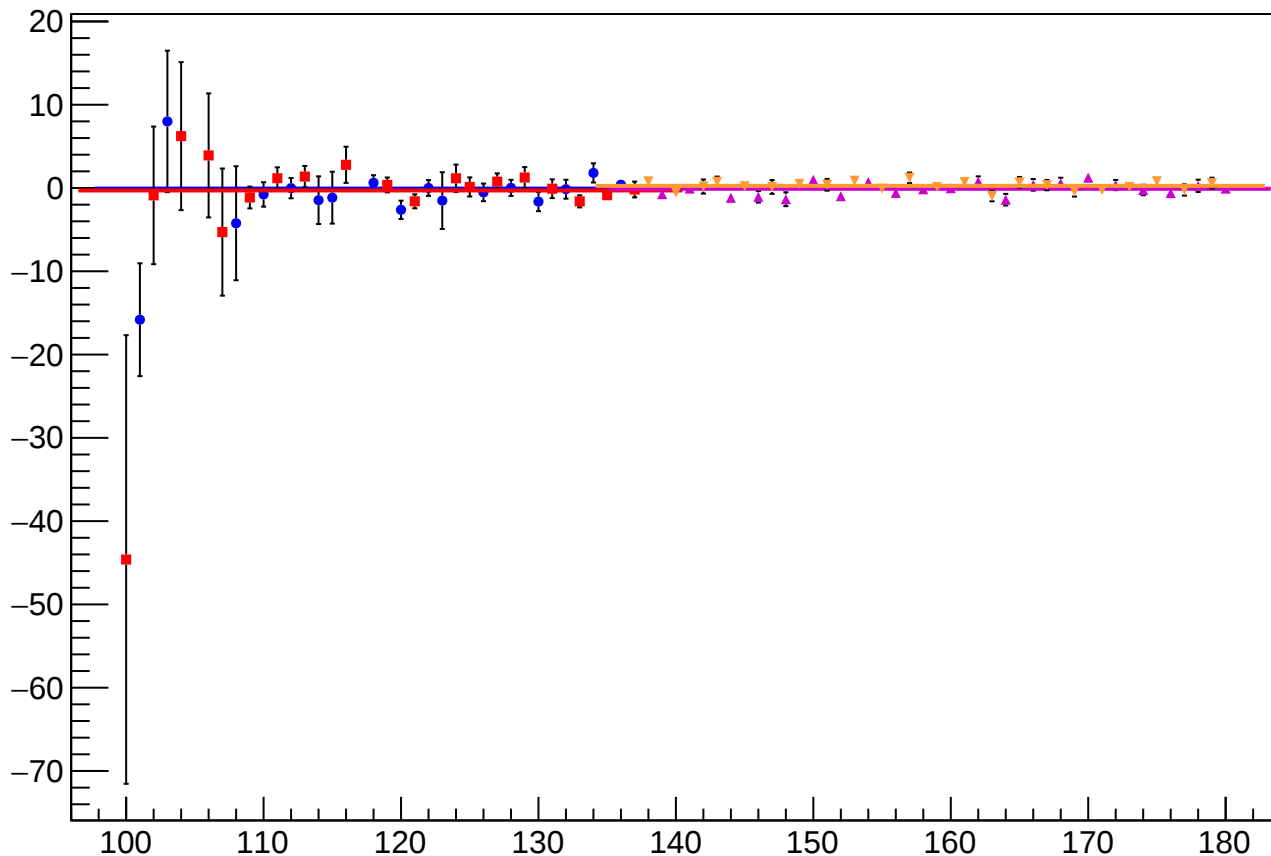
Right: 1206.306 ± 0.246 $\chi^2/\text{NDF}: 3259405.5/35$

In: 765.929 ± 0.118 $\chi^2/\text{NDF}: 3464115.4/37$

Out: 768.487 ± 0.117 $\chi^2/\text{NDF}: 4068710.4/40$

All: 767.214 ± 0.083 $\chi^2/\text{NDF}: 7533063.2/78$

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.260 ± 0.130 χ^2/NDF : 16.2/21

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

Left In: -0.094 ± 0.131 χ^2/NDF : 33.2/20

Left: 0.084 ± 0.092 χ^2/NDF : 53.1/42

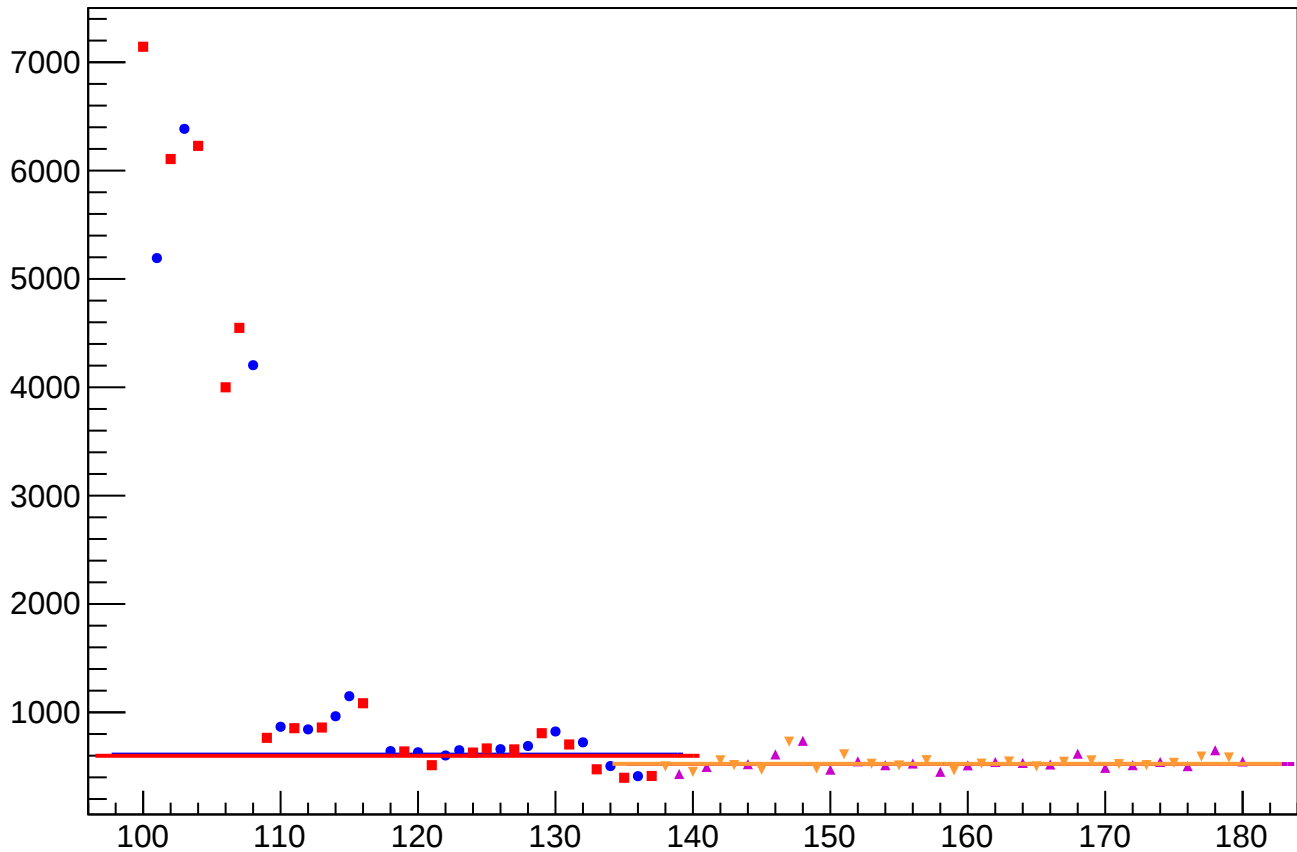
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.090 ± 0.118 χ^2/NDF : 52.5/37

Out: 0.152 ± 0.117 χ^2/NDF : 40.0/40

All: 0.032 ± 0.083 χ^2/NDF : 94.6/78

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 524.629 $\pm$ 0.092 χ^2 /NDF: 321070.1/21

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

Left In: 523.010 $\pm$ 0.092 χ^2 /NDF: 417252.3/20

Left: 523.825 $\pm$ 0.065 χ^2 /NDF: 738477.0/42

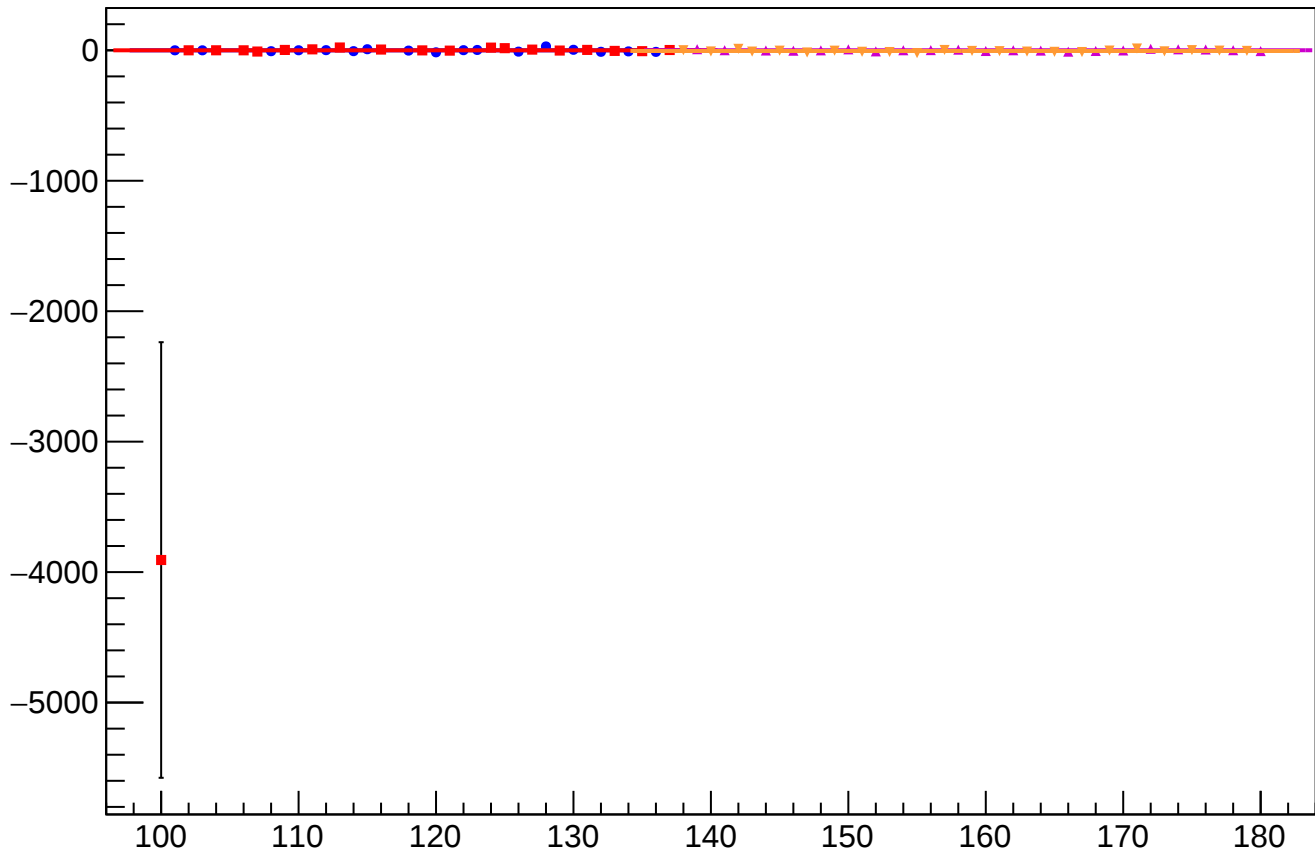
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 539.628 $\pm$ 0.083 χ^2 /NDF: 3721998.8/37

Out: 539.129 $\pm$ 0.082 χ^2 /NDF: 4001386.5/40

All: 539.376 $\pm$ 0.059 χ^2 /NDF: 7723403.5/78

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -5.144 ± 1.022 χ^2/NDF : 56.0/21

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

Left In: 0.495 ± 1.033 χ^2/NDF : 27.3/20

Left: -2.356 ± 0.727 χ^2/NDF : 98.4/42

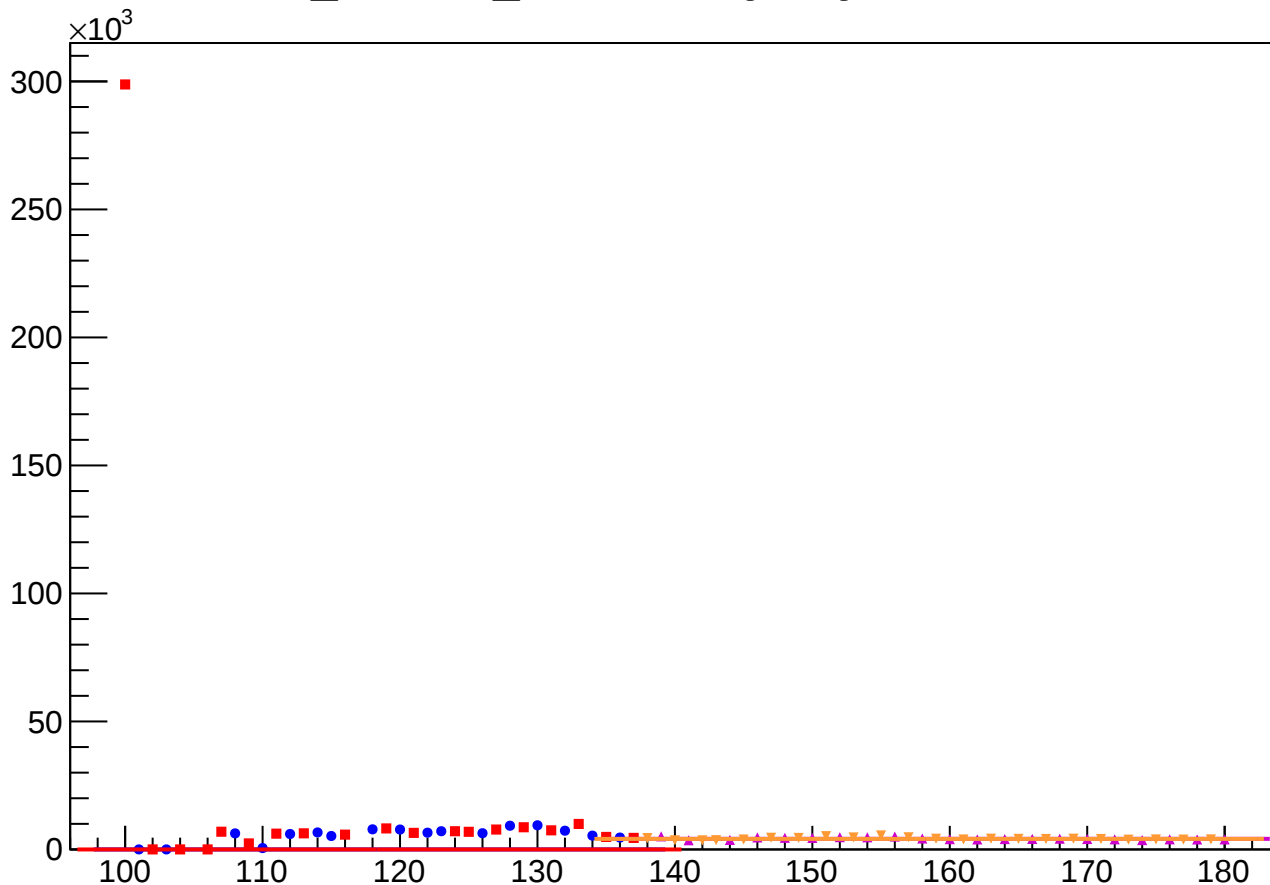
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.021 ± 0.021 χ^2/NDF : 43.2/37

Out: 0.025 ± 0.020 χ^2/NDF : 99.5/40

All: 0.003 ± 0.014 χ^2/NDF : 145.3/78

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341 $\pm$ 0.015 χ^2 /NDF: 10501445.0/16

Left Out: 4129.569 $\pm$ 0.723 χ^2 /NDF: 371022.6/21

Right Out: 17.269 $\pm$ 0.014 χ^2 /NDF: 10820611.7/18

Left In: 4147.427 $\pm$ 0.731 χ^2 /NDF: 321036.5/20

Left: 4138.398 $\pm$ 0.514 χ^2 /NDF: 692361.1/42

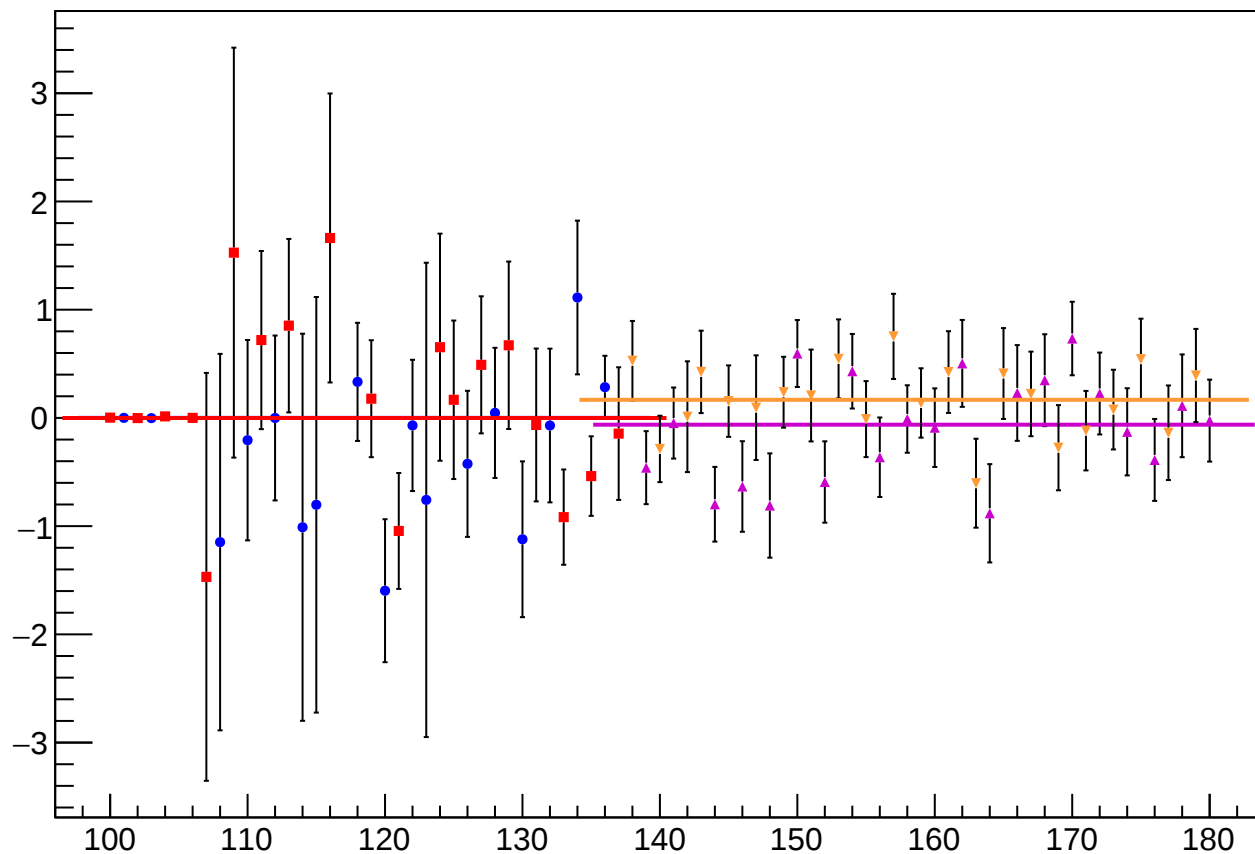
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

In: 19.012 $\pm$ 0.015 χ^2 /NDF: 42751002.2/37

Out: 18.808 $\pm$ 0.014 χ^2 /NDF: 43565259.8/40

All: 18.905 $\pm$ 0.010 χ^2 /NDF: 86316363.1/78

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 13.8/16

Left Out: 0.167 ± 0.081 χ^2/NDF : 15.4/21

Right Out: -0.001 ± 0.002 χ^2/NDF : 17.9/18

Left In: -0.063 ± 0.082 χ^2/NDF : 33.1/20

Left: 0.054 ± 0.057 χ^2/NDF : 52.4/42

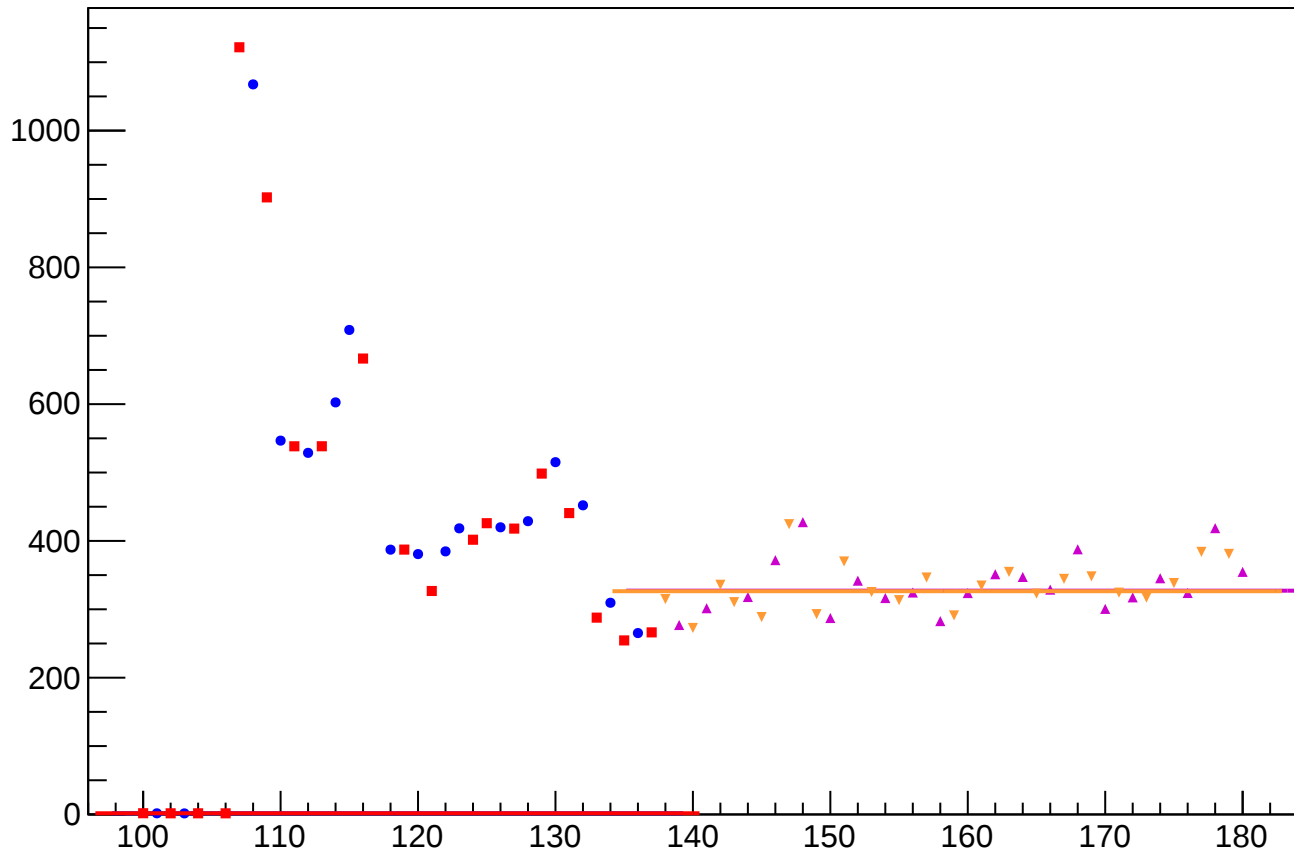
Right: -0.000 ± 0.001 χ^2/NDF : 31.8/35

In: 0.000 ± 0.002 χ^2/NDF : 47.4/37

Out: -0.001 ± 0.002 χ^2/NDF : 37.6/40

All: -0.000 ± 0.001 χ^2/NDF : 85.1/78

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 326.461+/-0.057 χ^2/NDF : 341400.7/21

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

Left In: 327.223+/-0.058 χ^2/NDF : 400943.0/20

Left: 326.838+/-0.041 χ^2/NDF : 742431.4/42

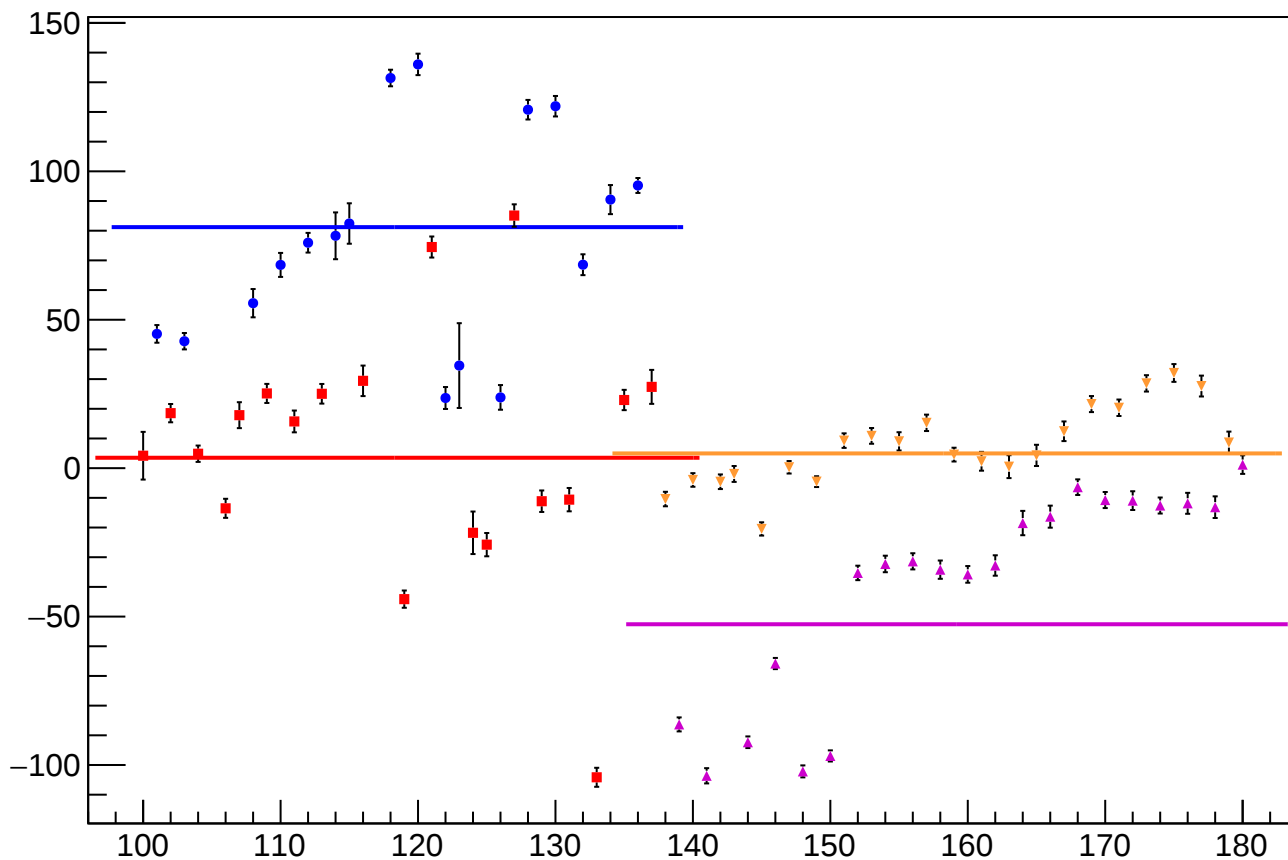
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.899+/-0.001 χ^2/NDF : 43146761.0/37

Out: 1.915+/-0.001 χ^2/NDF : 43348537.5/40

All: 1.907+/-0.001 χ^2/NDF : 86495366.2/78

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 4.965+/-0.566 χ^2/NDF : 535.6/21

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

Left In: -52.586+/-0.572 χ^2/NDF : 4141.2/20

Left: -23.519+/-0.402 χ^2/NDF : 9794.4/42

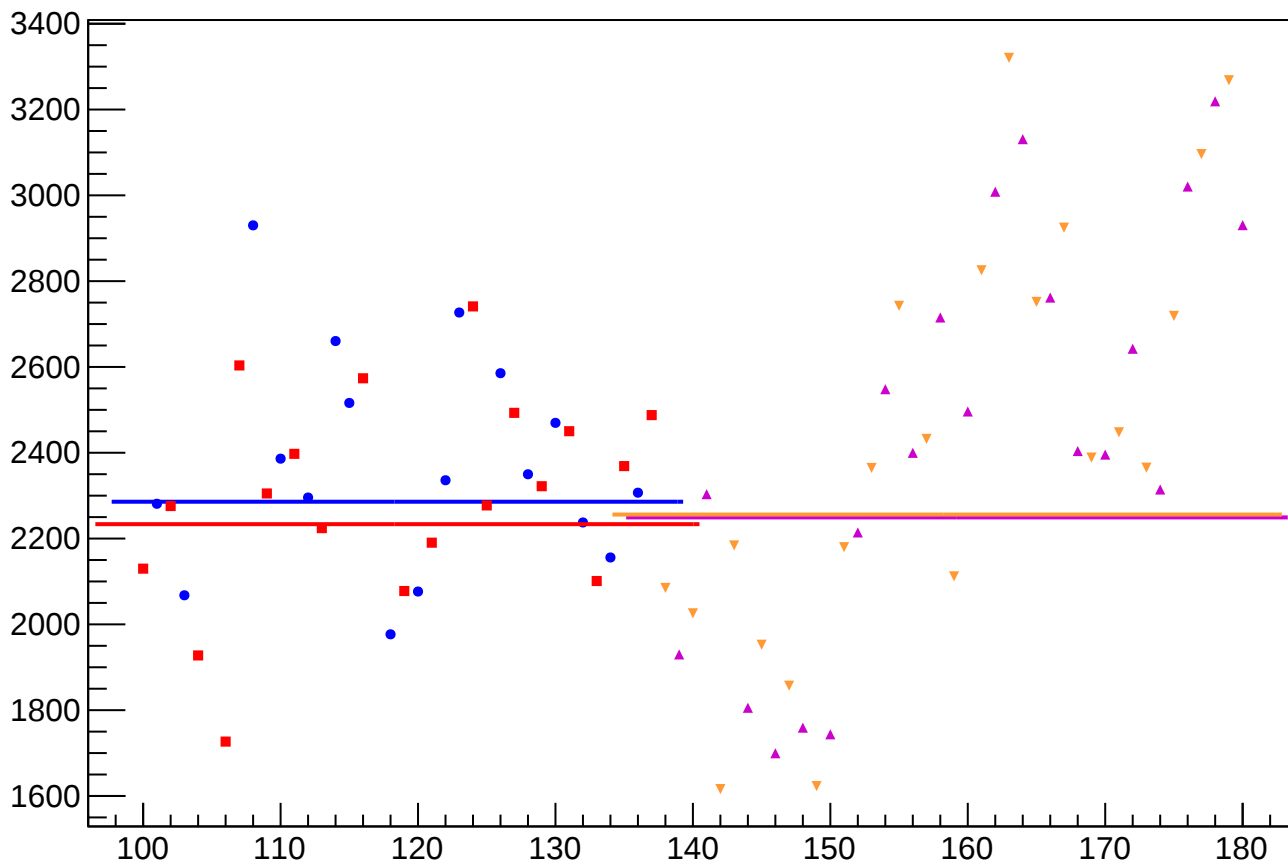
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -13.235+/-0.480 χ^2/NDF : 21957.0/37

Out: 4.512+/-0.470 χ^2/NDF : 3136.7/40

All: -4.165+/-0.336 χ^2/NDF : 25791.3/78

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2255.964 $\pm$ 0.400 χ^2 /NDF: 1255946.0/21

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

Left In: 2249.260 $\pm$ 0.404 χ^2 /NDF: 1269008.2/20

Left: 2252.646 $\pm$ 0.284 χ^2 /NDF: 2525093.0/42

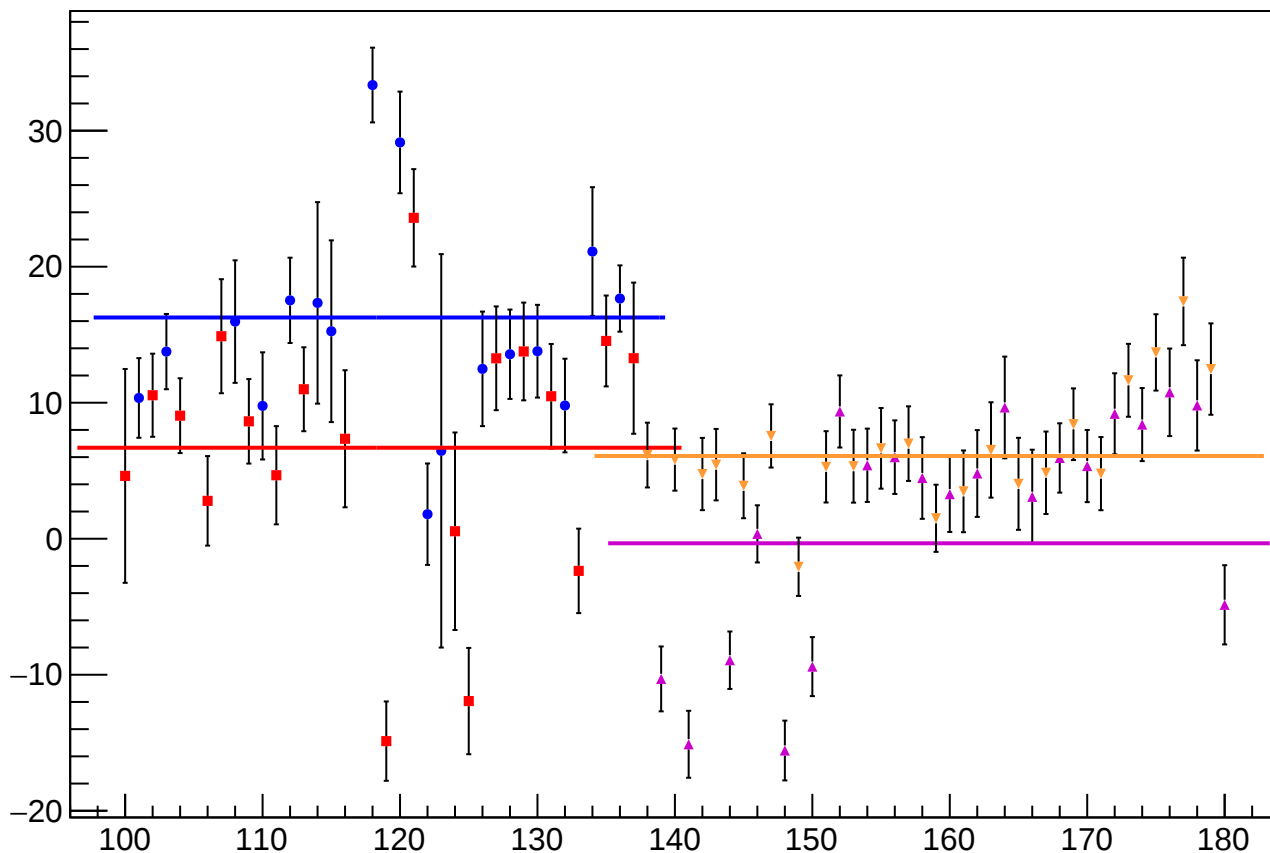
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2260.024 $\pm$ 0.340 χ^2 /NDF: 1380754.8/37

Out: 2248.994 $\pm$ 0.332 χ^2 /NDF: 1403770.1/40

All: 2254.387 $\pm$ 0.237 χ^2 /NDF: 2785063.9/78

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 ± 0.872 $\chi^2/\text{NDF}: 80.8/16$

Left Out: 6.085 ± 0.573 $\chi^2/\text{NDF}: 49.9/21$

Right Out: 6.690 ± 0.831 $\chi^2/\text{NDF}: 134.0/18$

Left In: -0.335 ± 0.580 $\chi^2/\text{NDF}: 229.1/20$

Left: 2.916 ± 0.407 $\chi^2/\text{NDF}: 341.1/42$

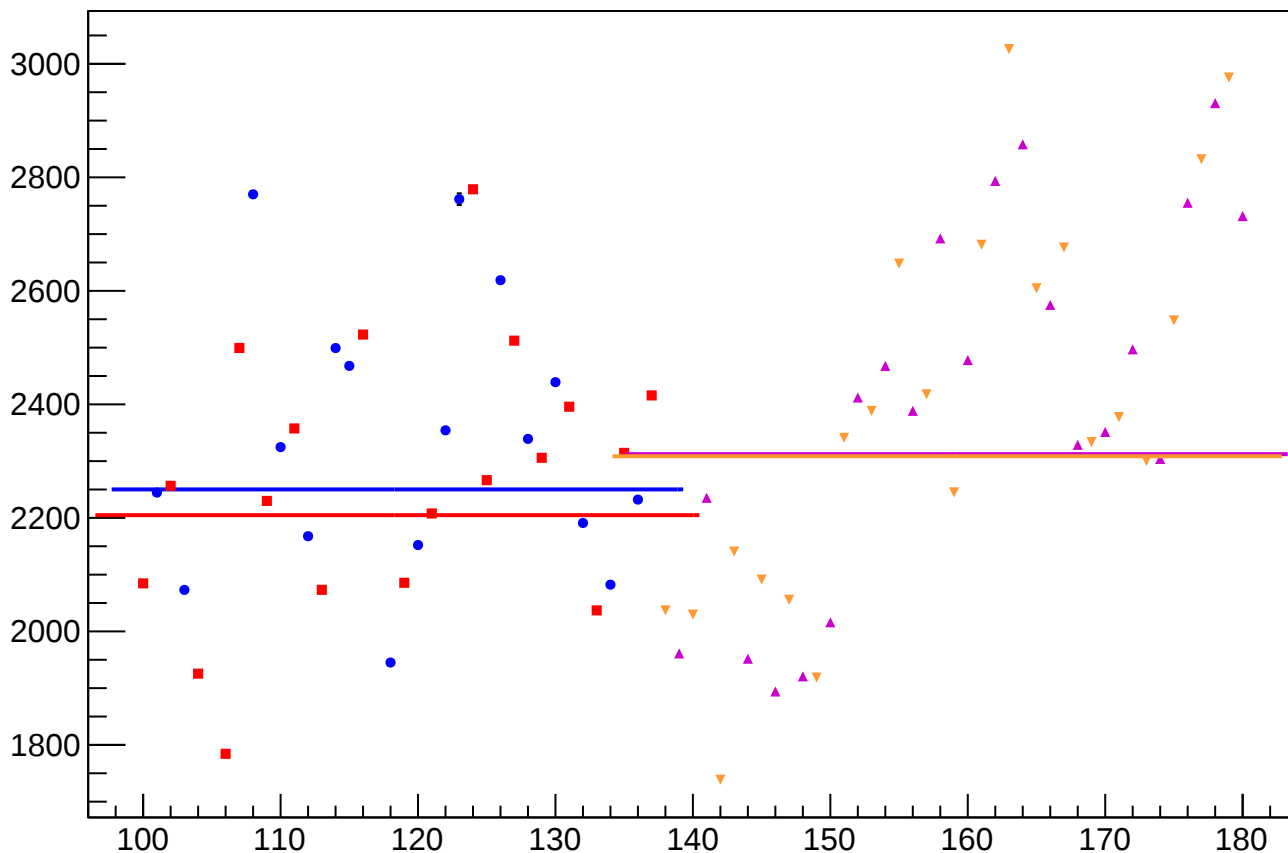
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 4.759 ± 0.483 $\chi^2/\text{NDF}: 561.4/37$

Out: 6.280 ± 0.471 $\chi^2/\text{NDF}: 184.2/40$

All: 5.538 ± 0.337 $\chi^2/\text{NDF}: 750.7/78$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175 $\pm$ 0.616 χ^2/NDF : 97578.1/16

Left Out: 2308.528 $\pm$ 0.405 χ^2/NDF : 602525.5/21

Right Out: 2204.789 $\pm$ 0.587 χ^2/NDF : 126227.4/18

Left In: 2312.316 $\pm$ 0.410 χ^2/NDF : 590642.3/20

Left: 2310.398 $\pm$ 0.288 χ^2/NDF : 1193211.0/42

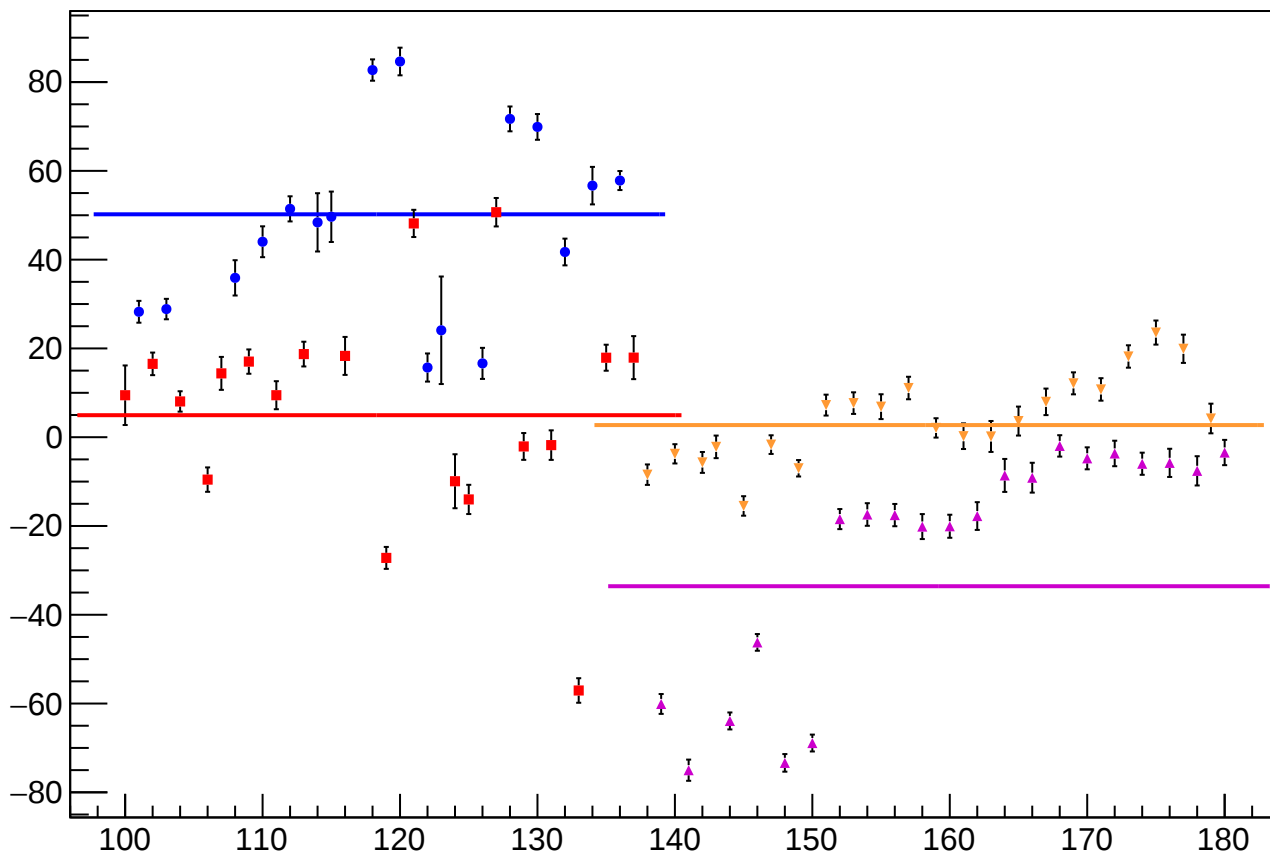
Right: 2226.396 $\pm$ 0.425 χ^2/NDF : 226647.4/35

In: 2293.248 $\pm$ 0.341 χ^2/NDF : 695268.4/37

Out: 2275.122 $\pm$ 0.333 χ^2/NDF : 749897.0/40

All: 2283.969 $\pm$ 0.238 χ^2/NDF : 1446608.6/78

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 2.732 ± 0.534 χ^2/NDF : 325.4/21

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

Left In: -33.571 ± 0.539 χ^2/NDF : 2574.8/20

Left: -15.231 ± 0.379 χ^2/NDF : 5190.3/42

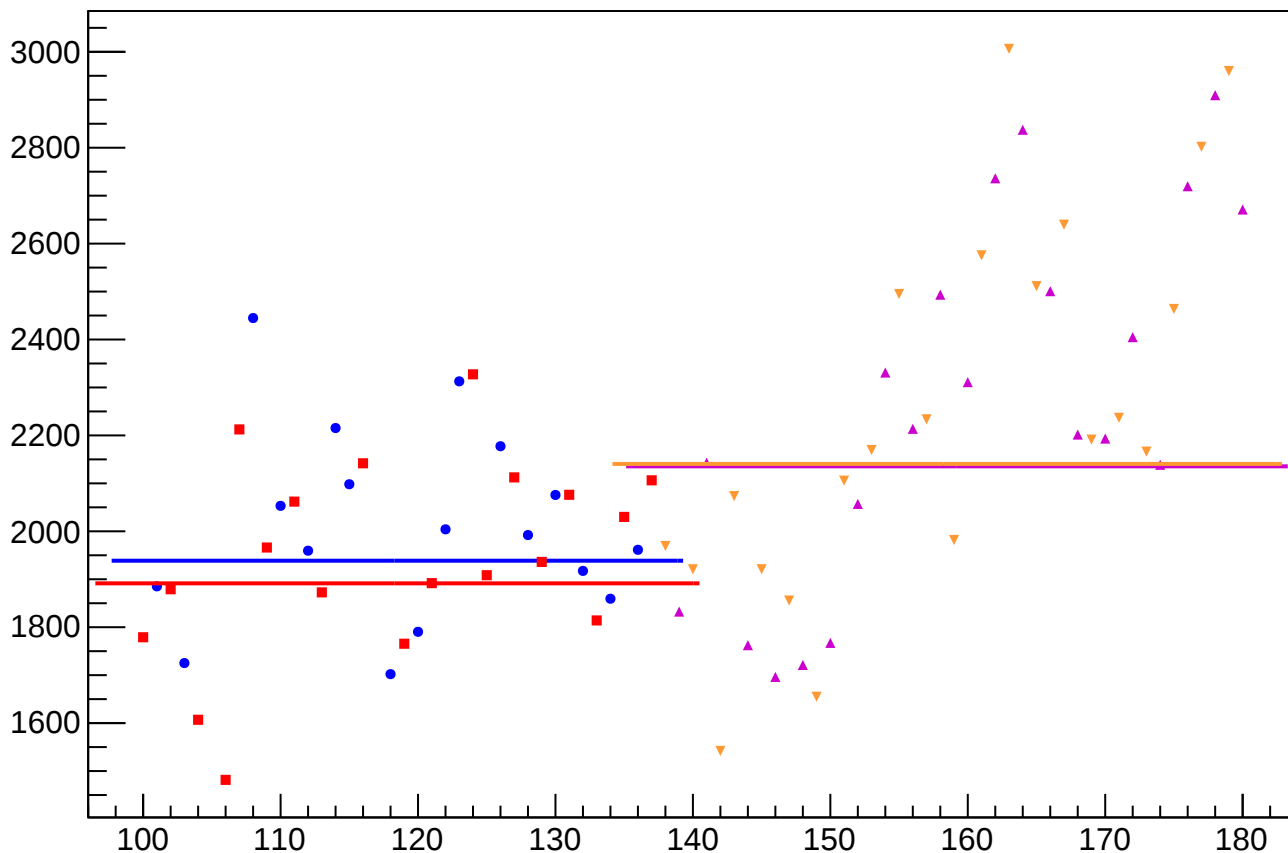
Right: 26.432 ± 0.517 χ^2/NDF : 4002.4/35

In: -5.061 ± 0.438 χ^2/NDF : 11621.4/37

Out: 3.531 ± 0.427 χ^2/NDF : 1594.2/40

All: -0.659 ± 0.306 χ^2/NDF : 13412.8/78

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2140.533 $\pm$ 0.377 χ^2 /NDF: 891816.1/21

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

Left In: 2135.520 $\pm$ 0.381 χ^2 /NDF: 879538.7/20

Left: 2138.053 $\pm$ 0.268 χ^2 /NDF: 1771442.1/42

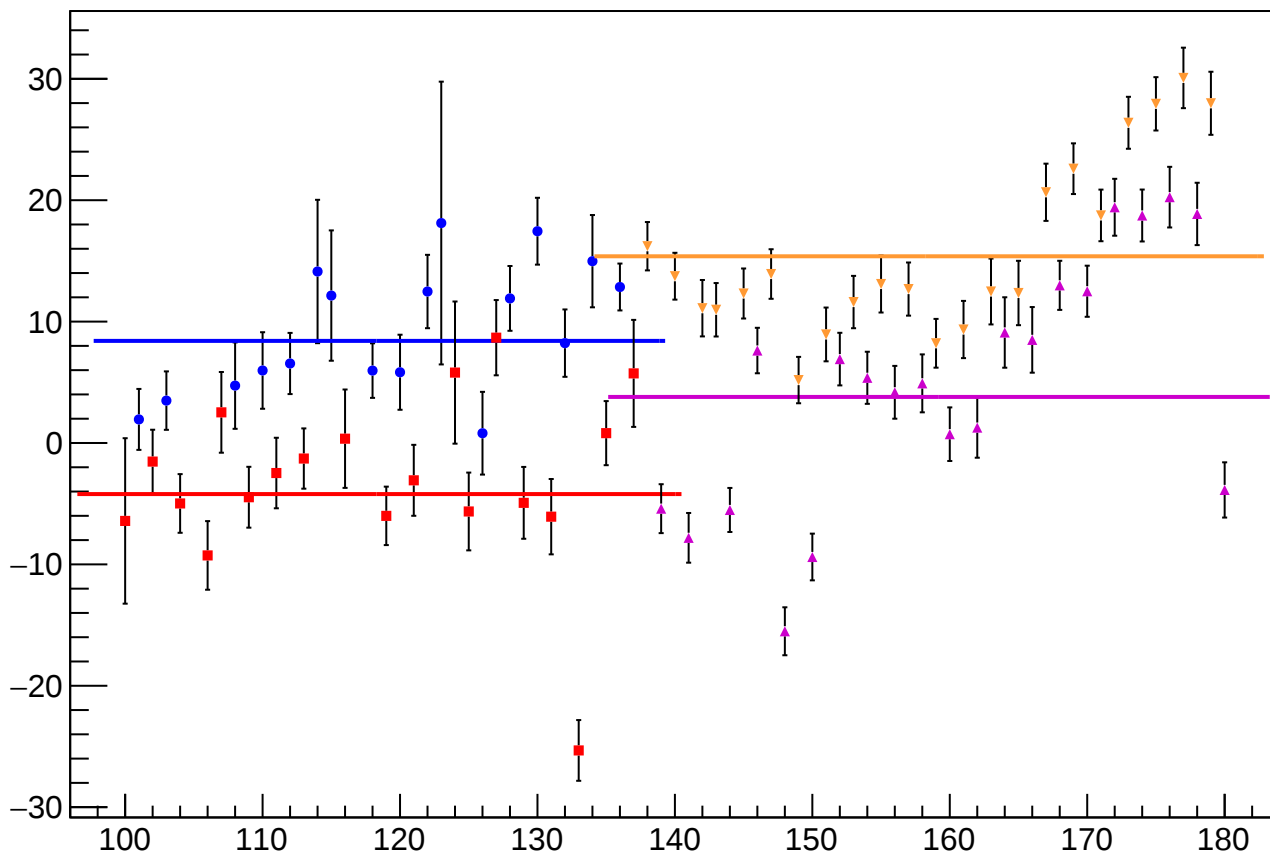
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 2068.544 $\pm$ 0.310 χ^2 /NDF: 1070371.4/37

Out: 2051.176 $\pm$ 0.302 χ^2 /NDF: 1194754.1/40

All: 2059.646 $\pm$ 0.216 χ^2 /NDF: 2266737.0/78

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 15.380 ± 0.469 $\chi^2/\text{NDF}: 212.0/21$

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

Left In: 3.795 ± 0.476 $\chi^2/\text{NDF}: 458.5/20$

Left: 9.668 ± 0.334 $\chi^2/\text{NDF}: 971.0/42$

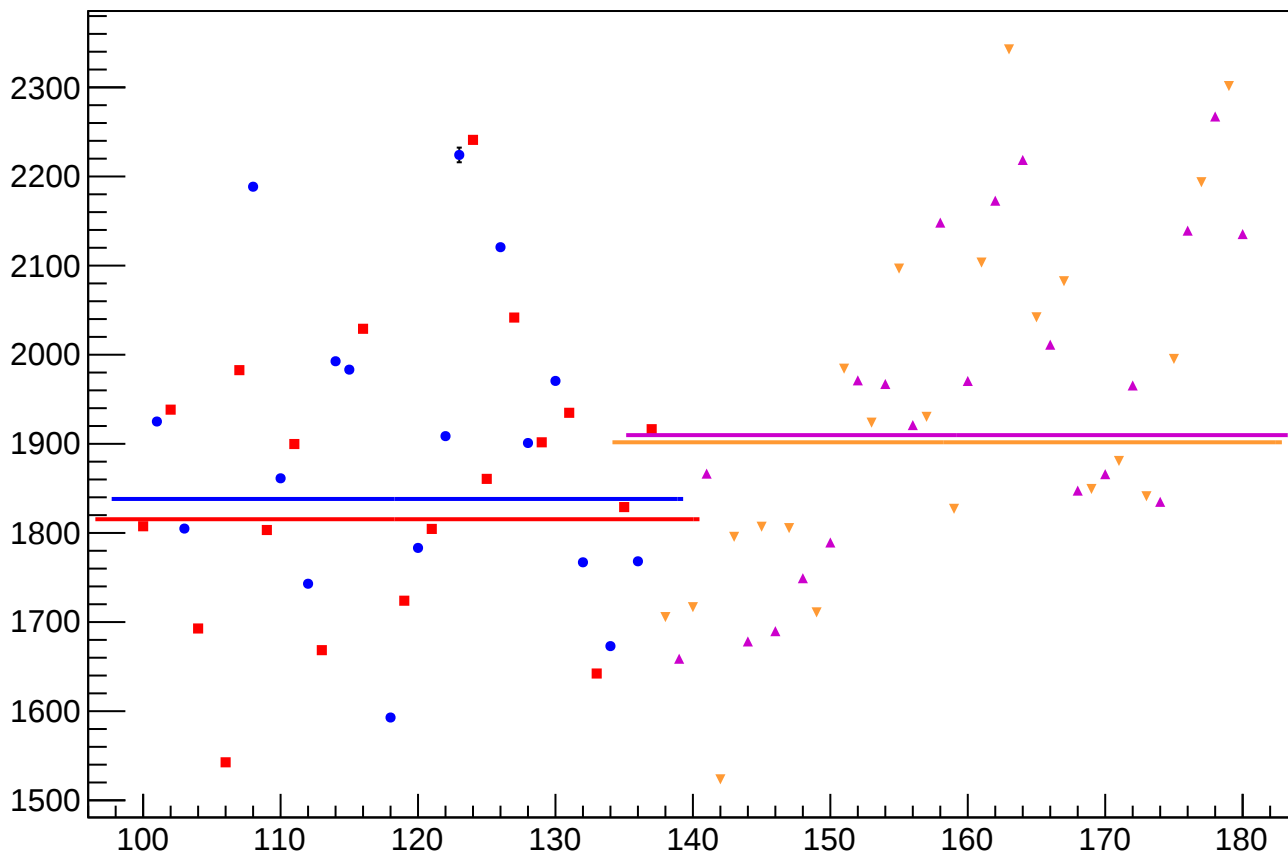
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 5.222 ± 0.395 $\chi^2/\text{NDF}: 532.2/37$

Out: 9.091 ± 0.387 $\chi^2/\text{NDF}: 884.6/40$

All: 7.200 ± 0.276 $\chi^2/\text{NDF}: 1465.7/78$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1901.736 $\pm$ 0.332 χ^2 /NDF:310182.1/21

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

Left In: 1909.773 $\pm$ 0.336 χ^2 /NDF:267294.7/20

Left: 1905.698 $\pm$ 0.236 χ^2 /NDF: 577766.1/42

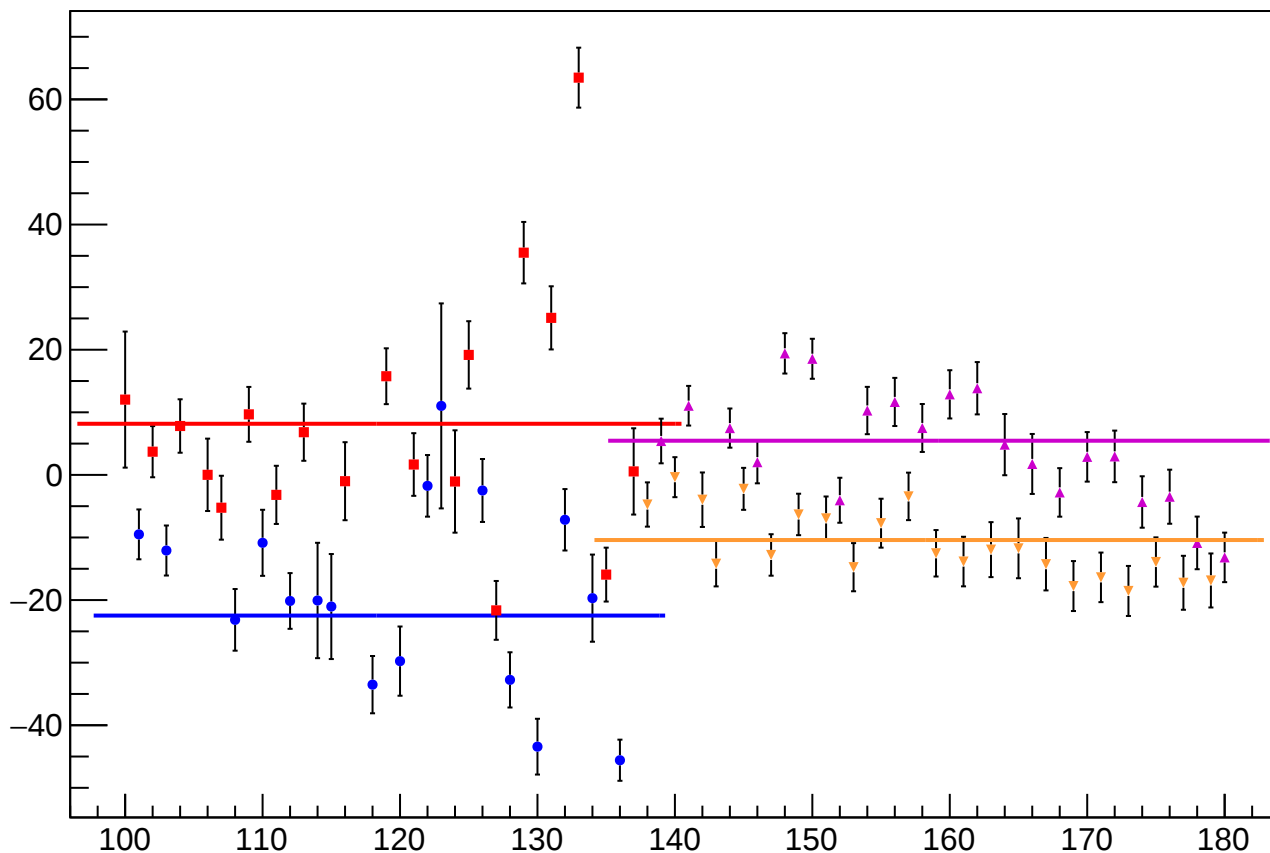
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1887.624 $\pm$ 0.280 χ^2 /NDF:364186.8/37

Out: 1874.019 $\pm$ 0.273 χ^2 /NDF:419335.5/40

All: 1880.668 $\pm$ 0.195 χ^2 /NDF: 784732.6/78

diff_bpm0l01X_mean vs Slug, Sign Corrected



Left: -2.566 +/- 0.578 χ^2/NDF : 347.9/42

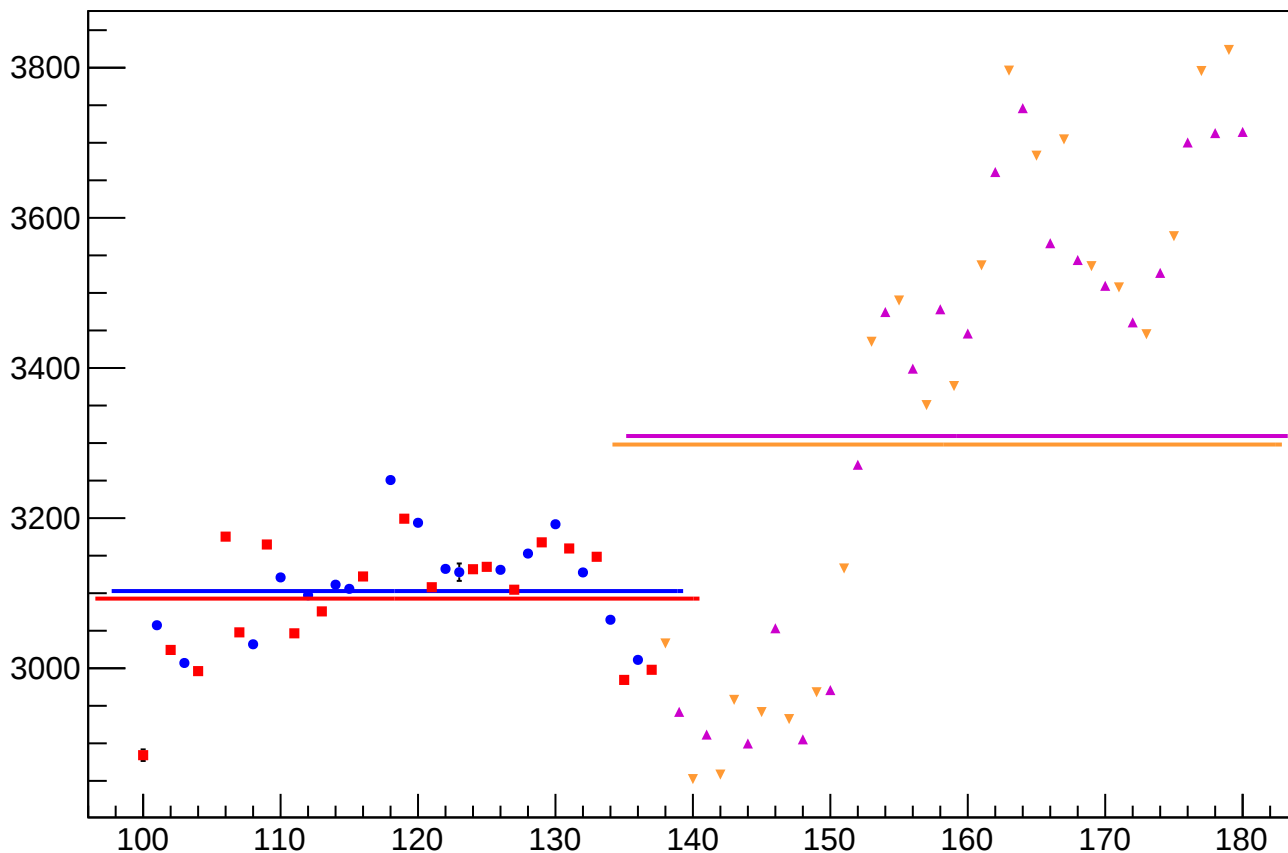
Right: -6.656 +/- 0.831 χ^2/NDF : 771.3/35

In: -3.526 +/- 0.678 χ^2/NDF : 638.1/37

Out: -4.261 +/- 0.665 χ^2/NDF : 496.8/40

All: -3.900 +/- 0.475 χ^2/NDF : 1135.6/78

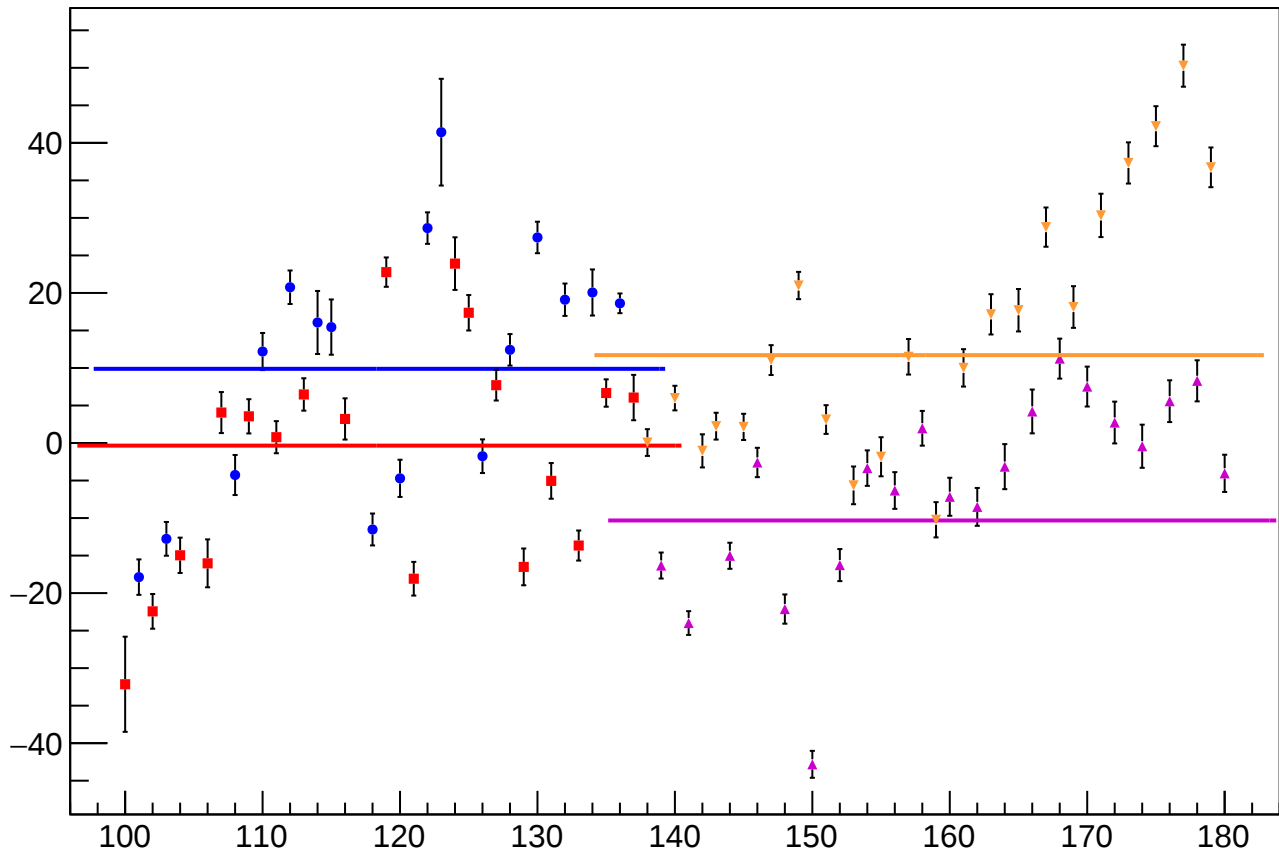
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16
 Left Out: 3298.040 $\pm$ 0.575 χ^2 /NDF:314384.1/21
 Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18
 Left In: 3309.386 $\pm$ 0.582 χ^2 /NDF:276196.4/20

Left: 3303.647 $\pm$ 0.409 χ^2 /NDF: 590772.9/42
 Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35
 In: 3242.951 $\pm$ 0.479 χ^2 /NDF:324087.7/37
 Out: 3230.136 $\pm$ 0.470 χ^2 /NDF:364297.2/40
 All: 3236.426 $\pm$ 0.336 χ^2 /NDF: 688749.2/78

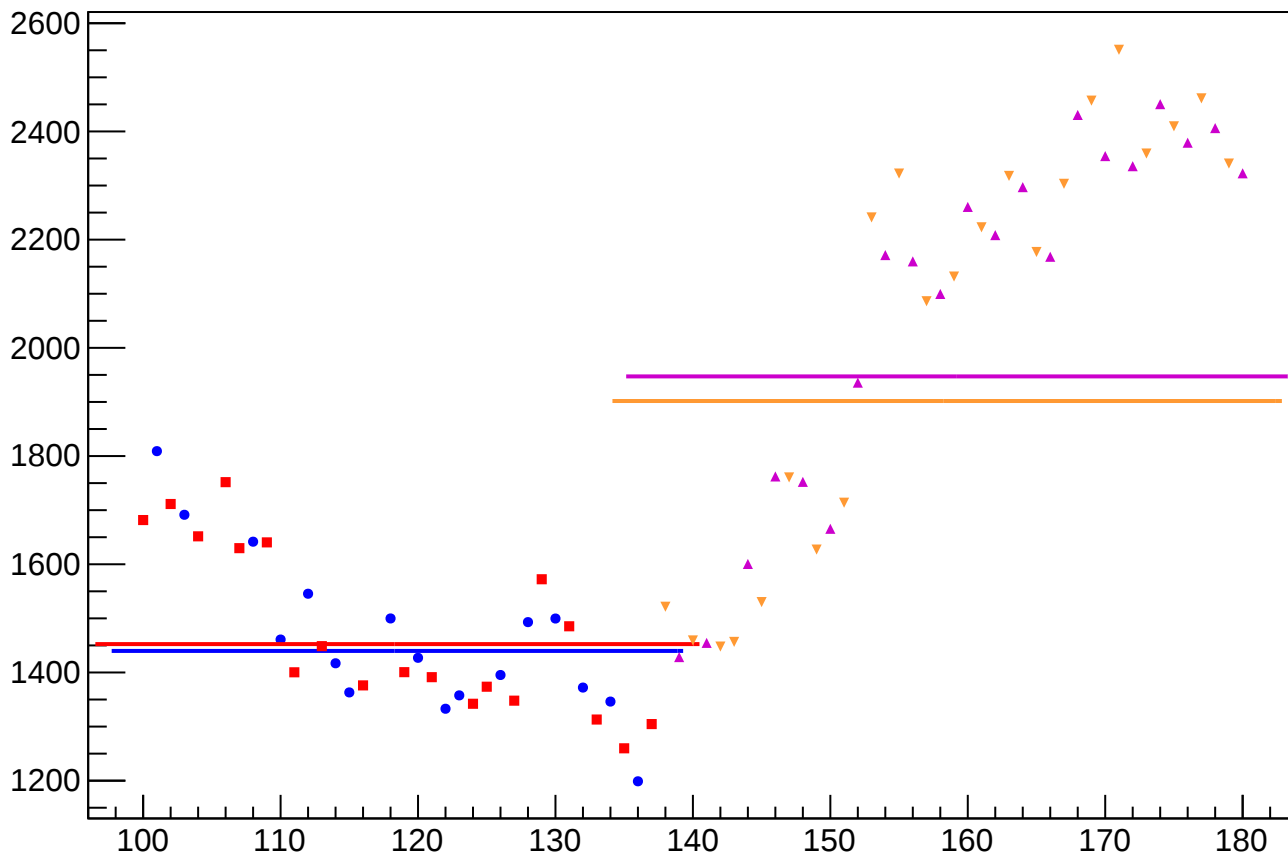
diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 $\chi^2/\text{NDF}: 703.6/16$
 Left Out: 11.711 ± 0.477 $\chi^2/\text{NDF}: 950.0/21$
 Right Out: -0.346 ± 0.547 $\chi^2/\text{NDF}: 628.9/18$
 Left In: -10.321 ± 0.491 $\chi^2/\text{NDF}: 783.2/20$

Left: 1.009 ± 0.342 $\chi^2/\text{NDF}: 2768.5/42$
 Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$
 In: -1.528 ± 0.369 $\chi^2/\text{NDF}: 2223.8/37$
 Out: 6.499 ± 0.360 $\chi^2/\text{NDF}: 1854.9/40$
 All: 2.590 ± 0.258 $\chi^2/\text{NDF}: 4321.3/78$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1901.746 $\pm$ 0.337 χ^2/NDF :1321971.6/21

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

Left In: 1947.228 $\pm$ 0.347 χ^2/NDF :1034594.9/20

Left: 1923.838 $\pm$ 0.242 χ^2/NDF : 2365390.2/42

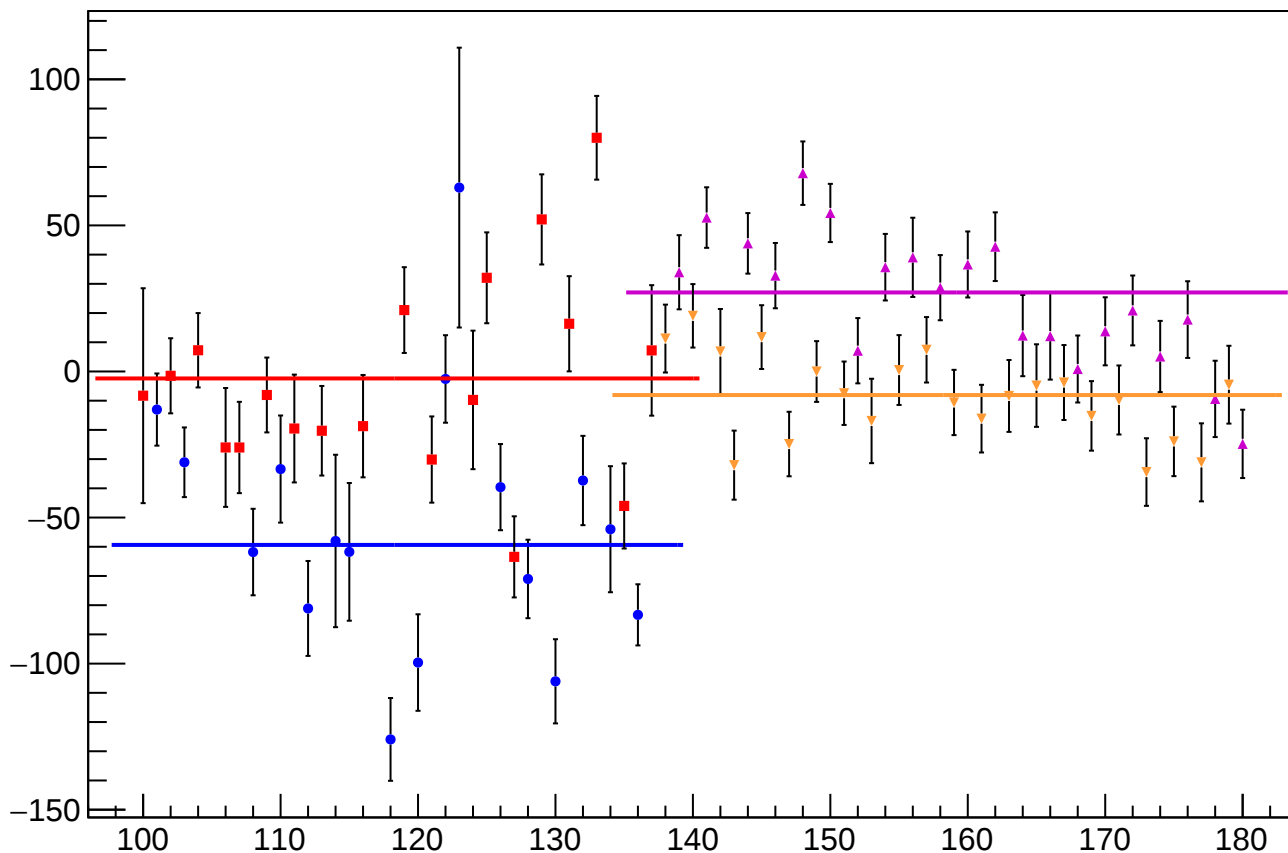
Right: 1446.283 $\pm$ 0.277 χ^2/NDF : 311864.1/35

In: 1726.443 $\pm$ 0.261 χ^2/NDF :2136622.5/37

Out: 1707.514 $\pm$ 0.254 χ^2/NDF :2226831.2/40

All: 1716.732 $\pm$ 0.182 χ^2/NDF : 4366152.8/78

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 $\chi^2/\text{NDF}: 92.9/16$

Left Out: -8.069 ± 2.540 $\chi^2/\text{NDF}: 34.3/21$

Right Out: -2.388 ± 3.630 $\chi^2/\text{NDF}: 93.9/18$

Left In: 27.048 ± 2.556 $\chi^2/\text{NDF}: 78.0/20$

Left: 9.375 ± 1.802 $\chi^2/\text{NDF}: 207.3/42$

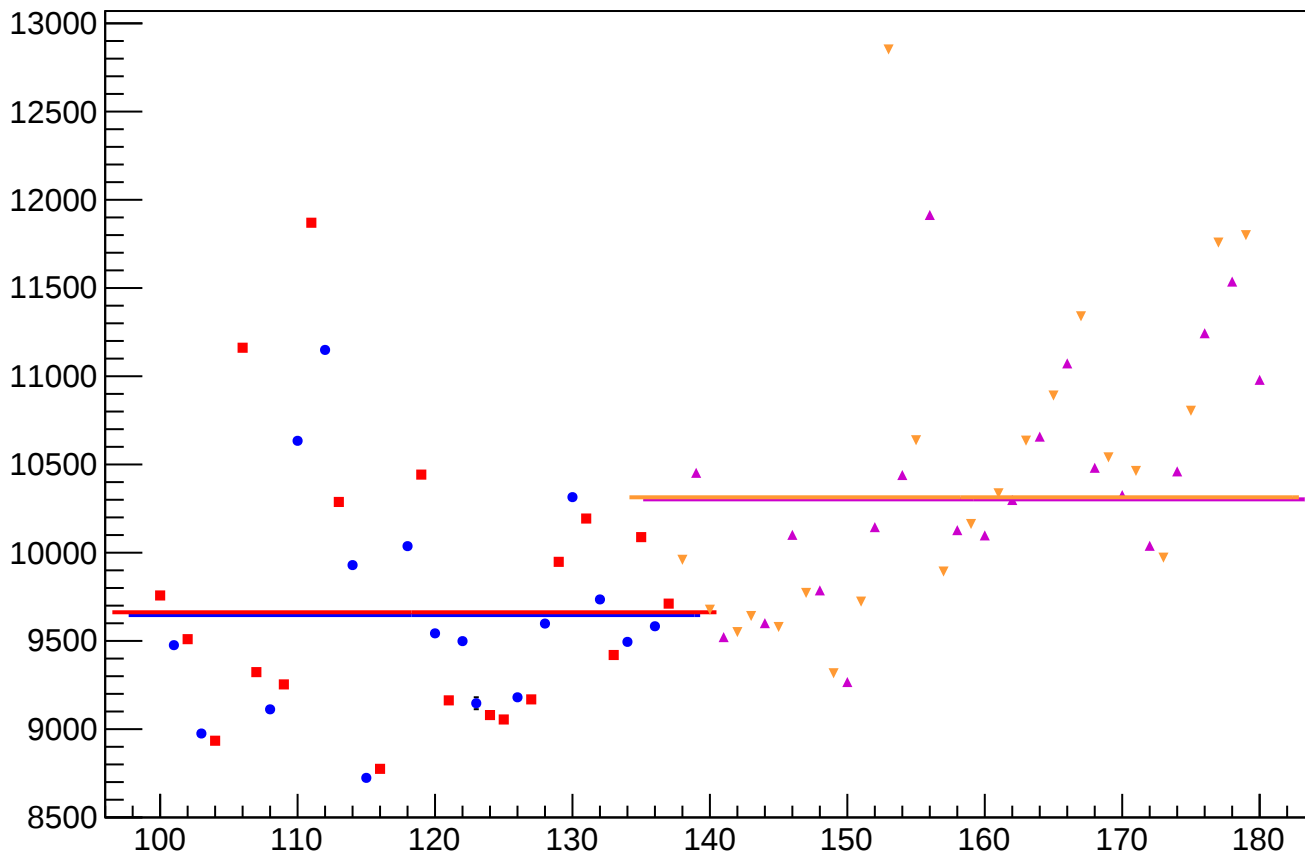
Right: -30.113 ± 2.601 $\chi^2/\text{NDF}: 306.8/35$

In: -0.584 ± 2.108 $\chi^2/\text{NDF}: 536.4/37$

Out: -6.202 ± 2.081 $\chi^2/\text{NDF}: 129.9/40$

All: -3.430 ± 1.481 $\chi^2/\text{NDF}: 669.8/78$

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10313.977+/-1.796 χ^2/NDF : 197253.5/21

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

Left In: 10302.331+/-1.808 χ^2/NDF : 120961.1/20

Left: 10308.192+/-1.274 χ^2/NDF : 318235.5/42

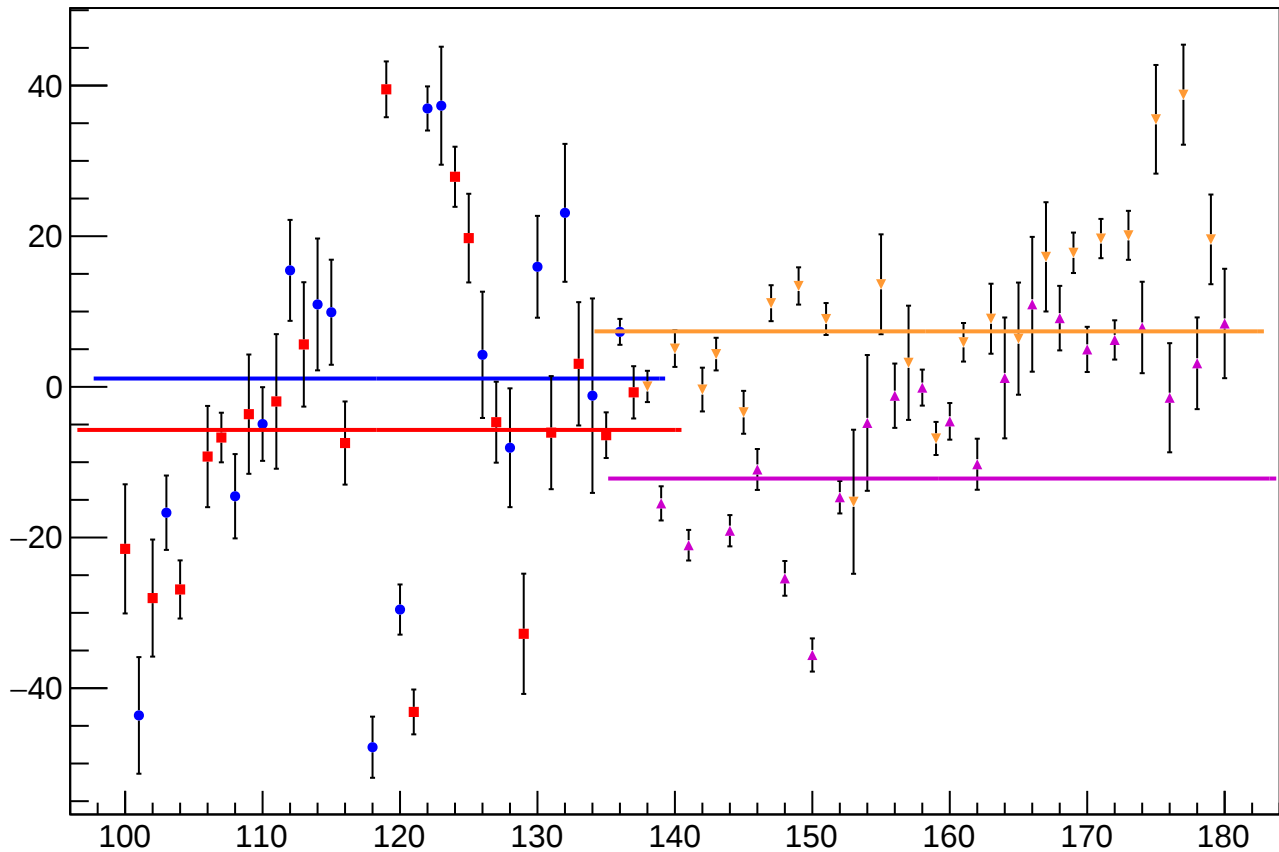
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 10092.631+/-1.491 χ^2/NDF : 207110.7/37

Out: 10099.810+/-1.471 χ^2/NDF : 318109.9/40

All: 10096.268+/-1.047 χ^2/NDF : 525232.4/78

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 7.368 $\pm$ 0.651 χ^2/NDF :191.2/21

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

Left In: -12.170 $\pm$ 0.653 χ^2/NDF :366.9/20

Left: -2.365 $\pm$ 0.461 χ^2/NDF : 1007.4/42

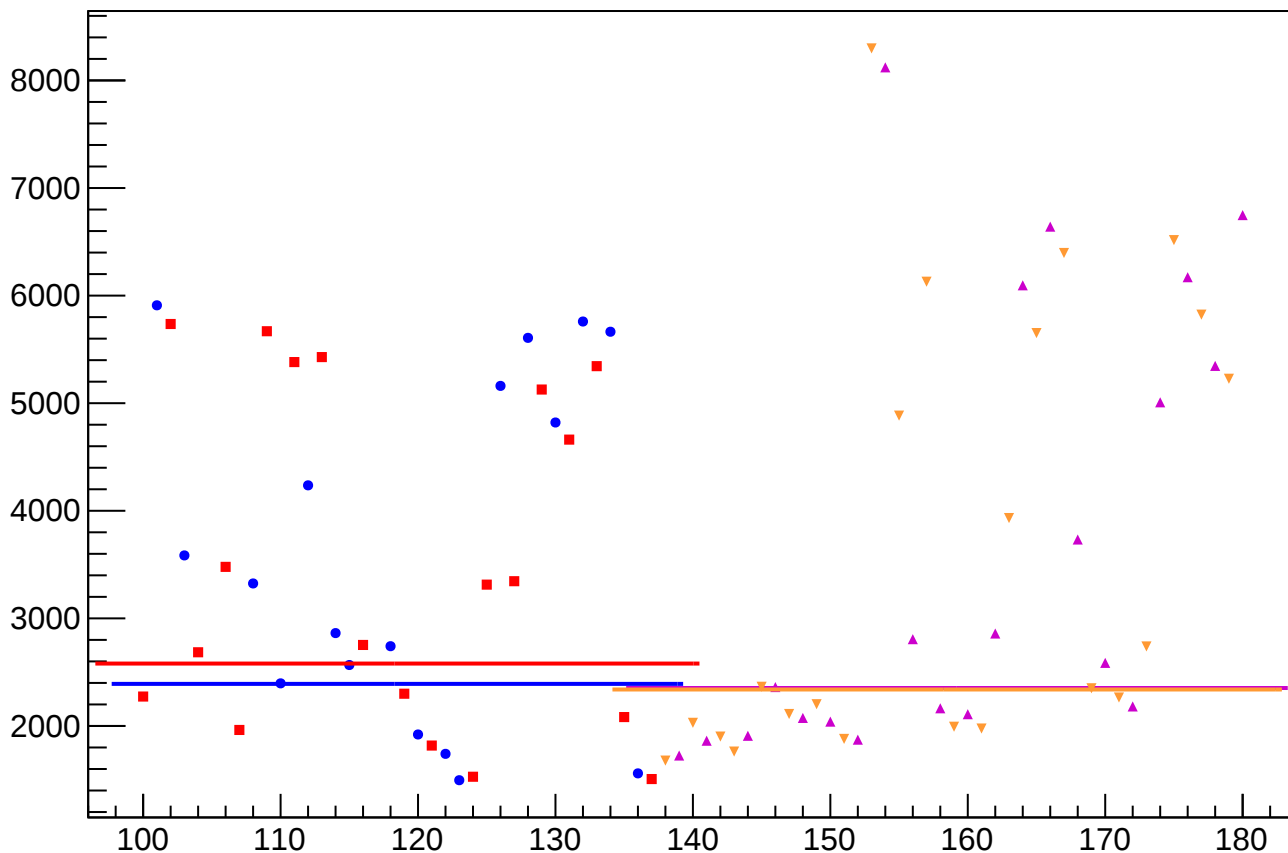
Right: -2.227 $\pm$ 0.763 χ^2/NDF : 965.6/35

In: -8.550 $\pm$ 0.557 χ^2/NDF :969.3/37

Out: 3.937 $\pm$ 0.559 χ^2/NDF :753.2/40

All: -2.328 $\pm$ 0.394 χ^2/NDF : 1973.0/78

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2338.985 $\pm$ 0.460 χ^2 /NDF: 5182668.1/21

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

Left In: 2352.771 $\pm$ 0.462 χ^2 /NDF: 4726673.4/20

Left: 2345.853 $\pm$ 0.326 χ^2 /NDF: 9909788.9/42

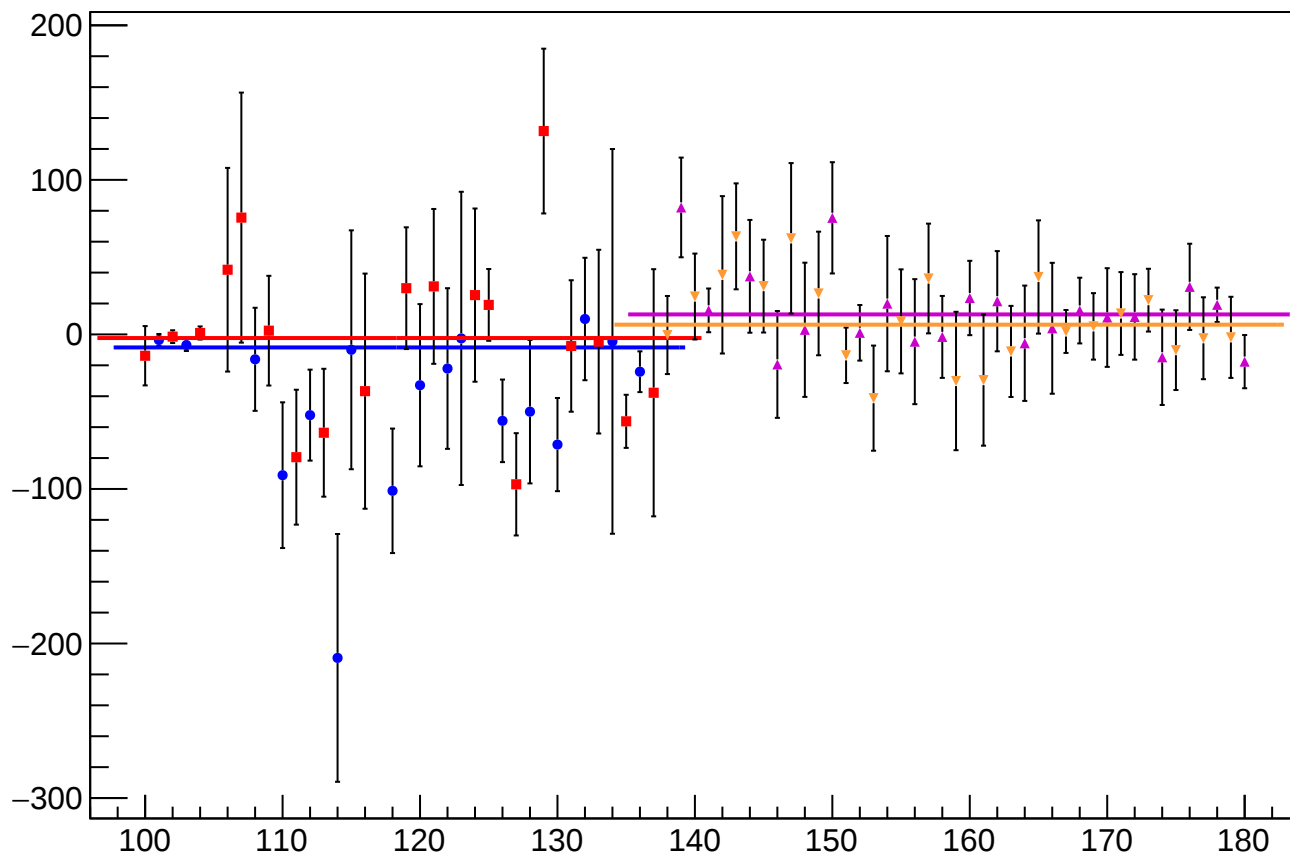
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2363.239 $\pm$ 0.394 χ^2 /NDF: 7329105.7/37

Out: 2402.204 $\pm$ 0.395 χ^2 /NDF: 7619954.7/40

All: 2382.655 $\pm$ 0.279 χ^2 /NDF: 14953939.5/77

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.304 $\pm$ 5.736 χ^2 /NDF:13.7/21

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

Left In: 12.934 $\pm$ 5.217 χ^2 /NDF:15.3/20

Left: 9.932 $\pm$ 3.859 χ^2 /NDF: 29.6/42

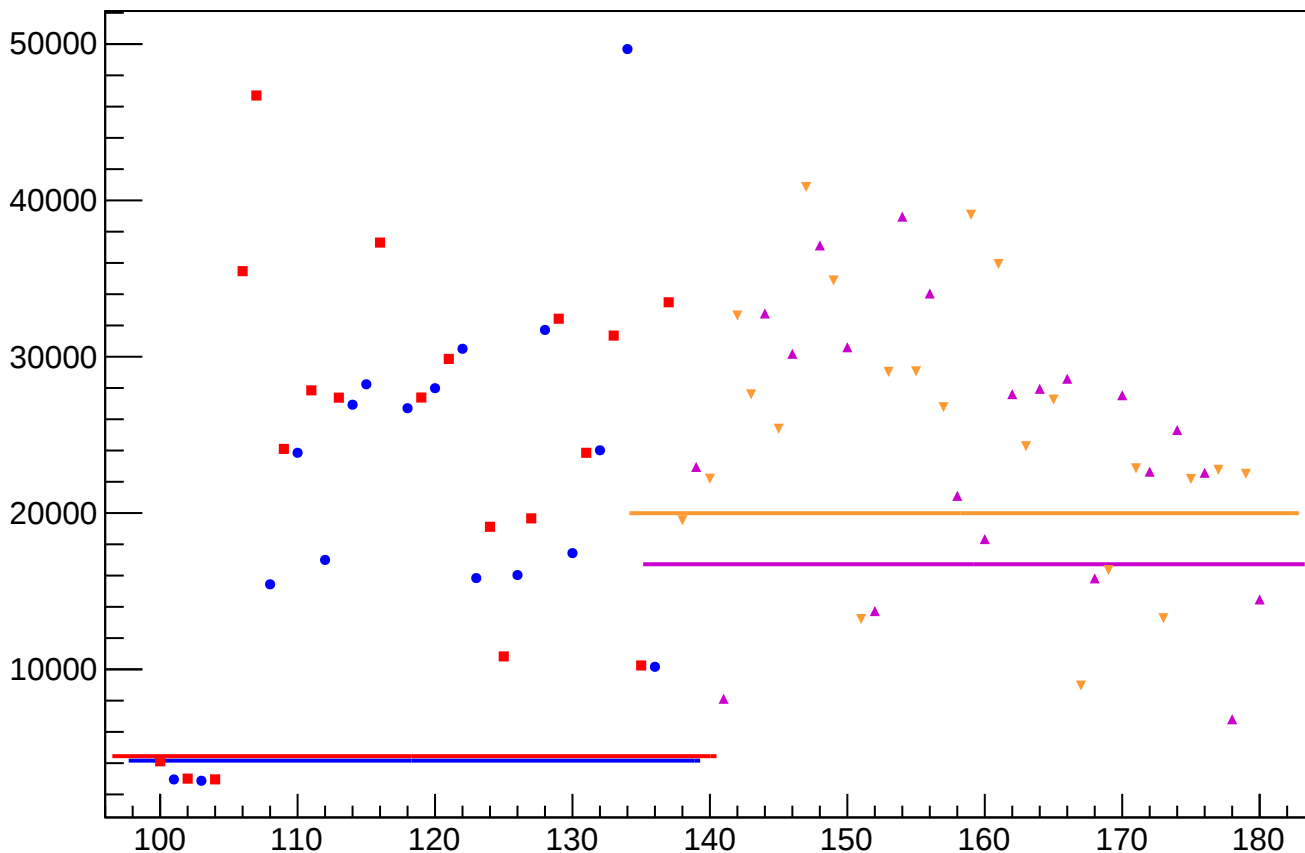
Right: -5.615 $\pm$ 1.896 χ^2 /NDF: 66.1/35

In: -4.213 $\pm$ 2.318 χ^2 /NDF:57.6/37

Out: -0.696 $\pm$ 2.507 χ^2 /NDF:50.2/40

All: -2.591 $\pm$ 1.702 χ^2 /NDF: 108.8/78

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318 ± 1.830 $\chi^2/\text{NDF}: 5990070.5/16$

Left Out: 19990.555 ± 4.056 $\chi^2/\text{NDF}: 3971834.6/21$

Right Out: 4447.123 ± 1.971 $\chi^2/\text{NDF}: 7426930.4/18$

Left In: 16724.873 ± 3.689 $\chi^2/\text{NDF}: 5998921.2/20$

Left: 18203.426 ± 2.729 $\chi^2/\text{NDF}: 10325559.4/42$

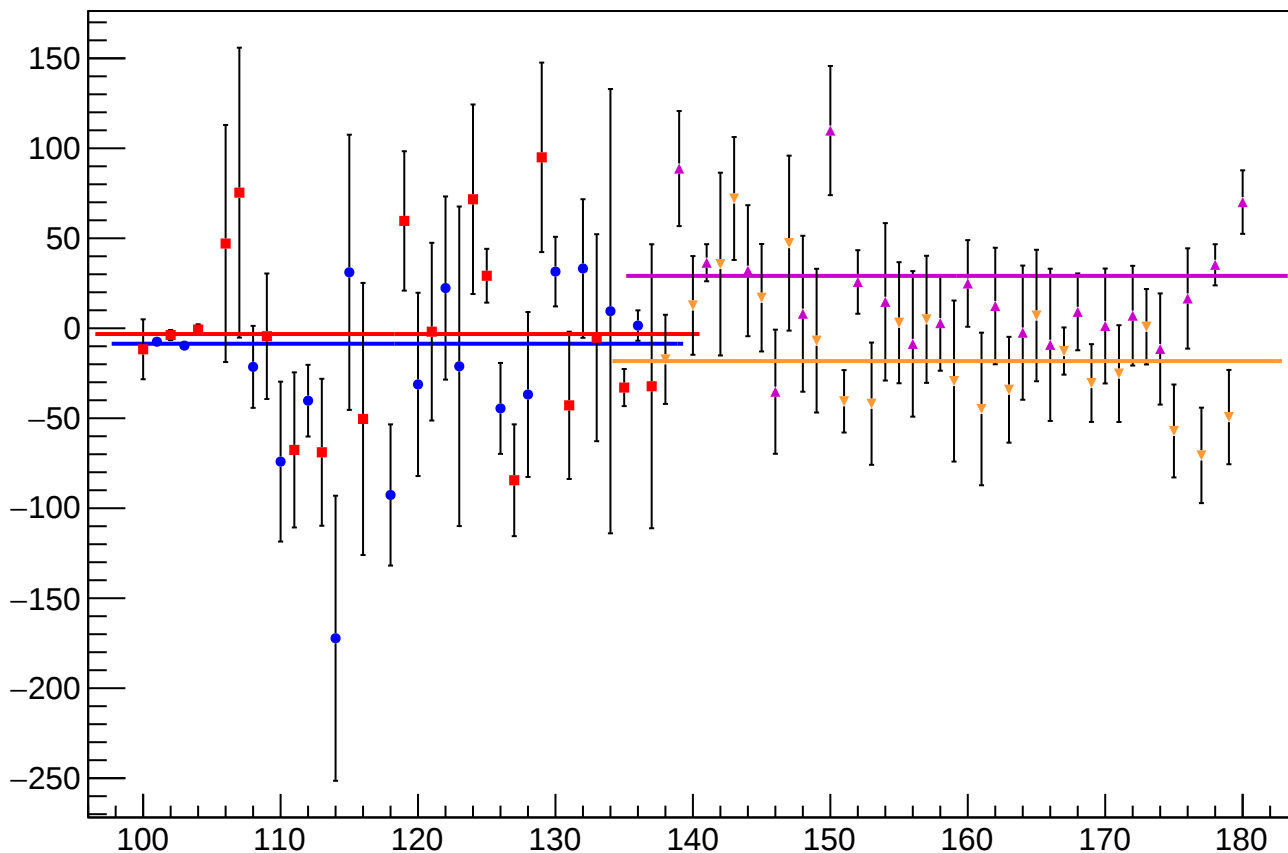
Right: 4294.168 ± 1.341 $\chi^2/\text{NDF}: 13428219.0/35$

In: 6642.323 ± 1.639 $\chi^2/\text{NDF}: 21296330.6/37$

Out: 7415.722 ± 1.772 $\chi^2/\text{NDF}: 23281252.7/40$

All: 6998.833 ± 1.203 $\chi^2/\text{NDF}: 44680214.3/77$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -18.219 $\pm$ 5.660 χ^2/NDF : 25.9/21

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

Left In: 29.118 $\pm$ 4.957 χ^2/NDF : 26.5/20

Left: 8.569 $\pm$ 3.729 χ^2/NDF : 92.0/42

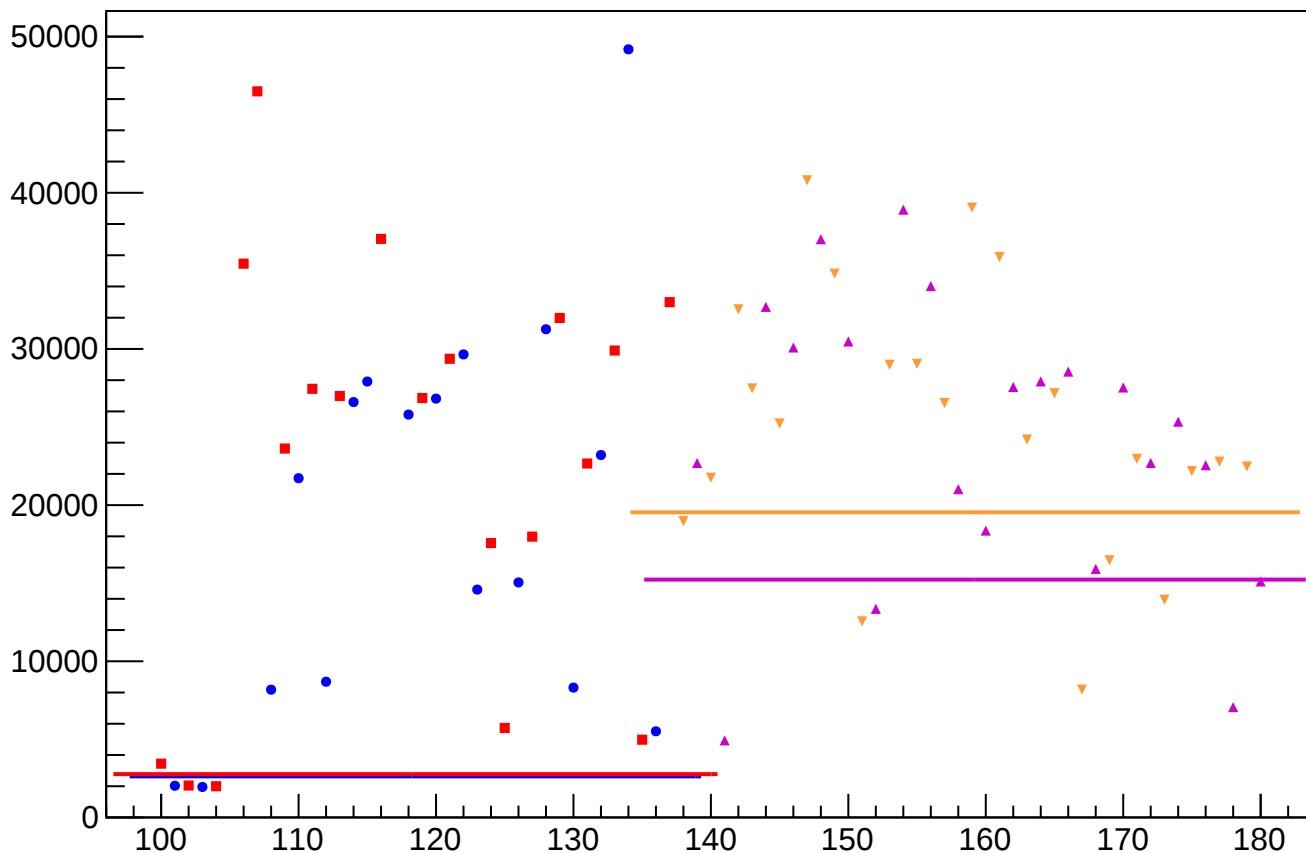
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -4.290 $\pm$ 1.673 χ^2/NDF : 102.2/37

Out: -4.748 $\pm$ 1.820 χ^2/NDF : 69.1/40

All: -4.500 $\pm$ 1.232 χ^2/NDF : 171.3/78

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19539.706 ± 4.002 $\chi^2/\text{NDF}: 4324749.6/21$

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

Left In: 15230.390 ± 3.505 $\chi^2/\text{NDF}: 7510286.1/20$

Left: 17101.052 ± 2.637 $\chi^2/\text{NDF}: 12491146.6/42$

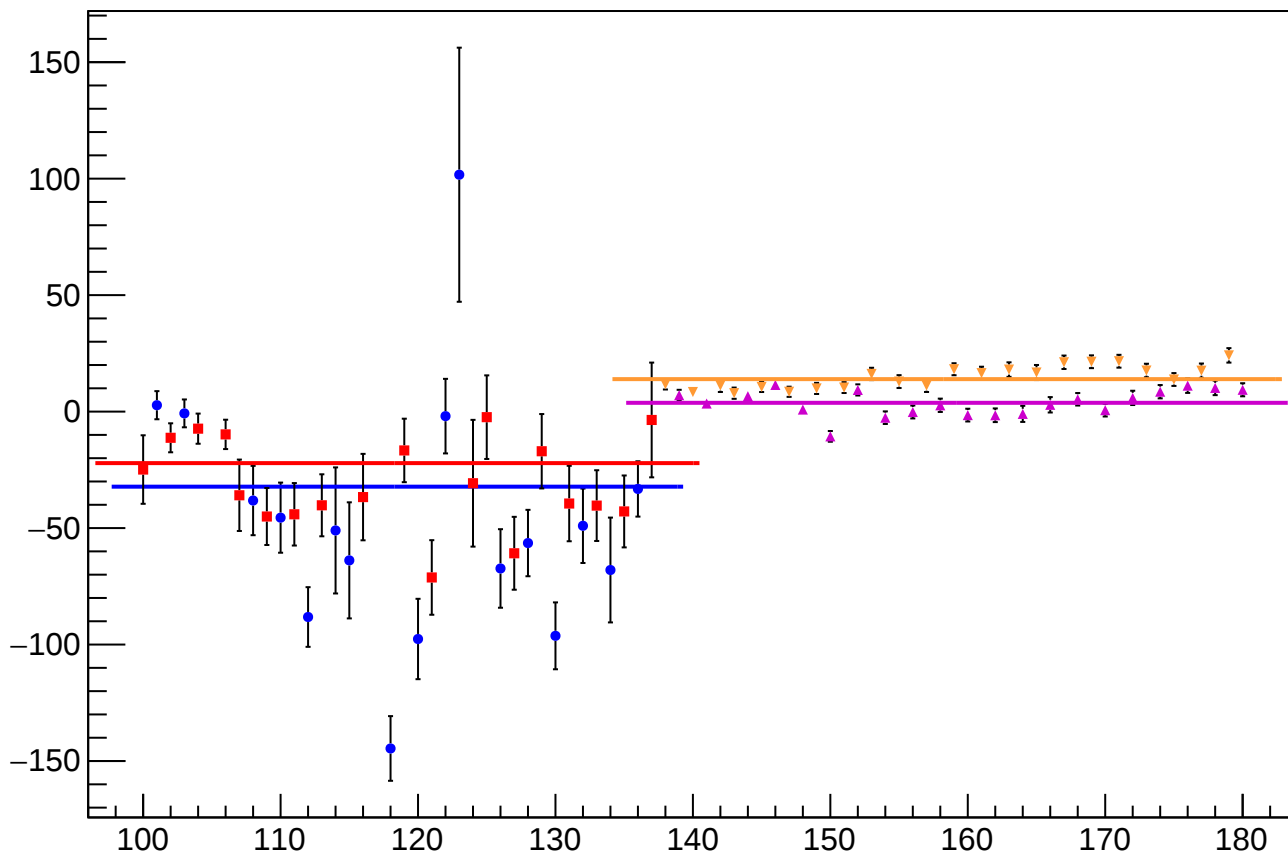
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 4066.387 ± 1.183 $\chi^2/\text{NDF}: 24548032.1/37$

Out: 4507.367 ± 1.287 $\chi^2/\text{NDF}: 27896167.0/40$

All: 4268.388 ± 0.871 $\chi^2/\text{NDF}: 52507820.6/7$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 13.940 ± 0.557 χ^2/NDF : 71.7/21

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

Left In: 3.772 ± 0.568 χ^2/NDF : 99.1/20

Left: 8.952 ± 0.398 χ^2/NDF : 334.0/42

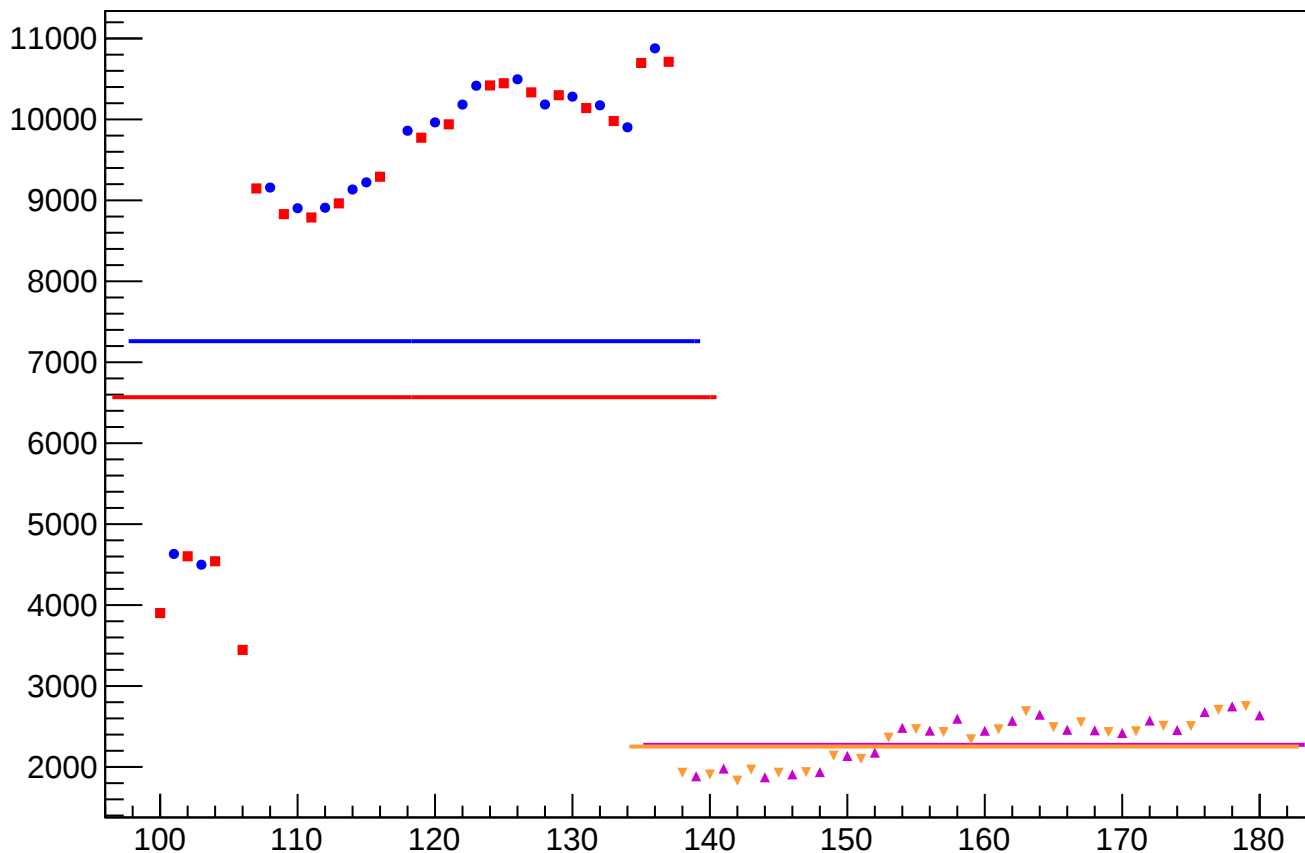
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 2.512 ± 0.558 χ^2/NDF : 443.4/37

Out: 12.434 ± 0.546 χ^2/NDF : 290.1/40

All: 7.584 ± 0.390 χ^2/NDF : 895.2/78

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081+/-2.108 χ^2/NDF : 1636373.2/16

Left Out: 2252.356+/-0.394 χ^2/NDF : 520483.0/21

Right Out: 6568.180+/-1.887 χ^2/NDF : 2196546.0/18

Left In: 2273.588+/-0.402 χ^2/NDF : 551366.3/20

Left: 2262.772+/-0.281 χ^2/NDF : 1073273.3/42

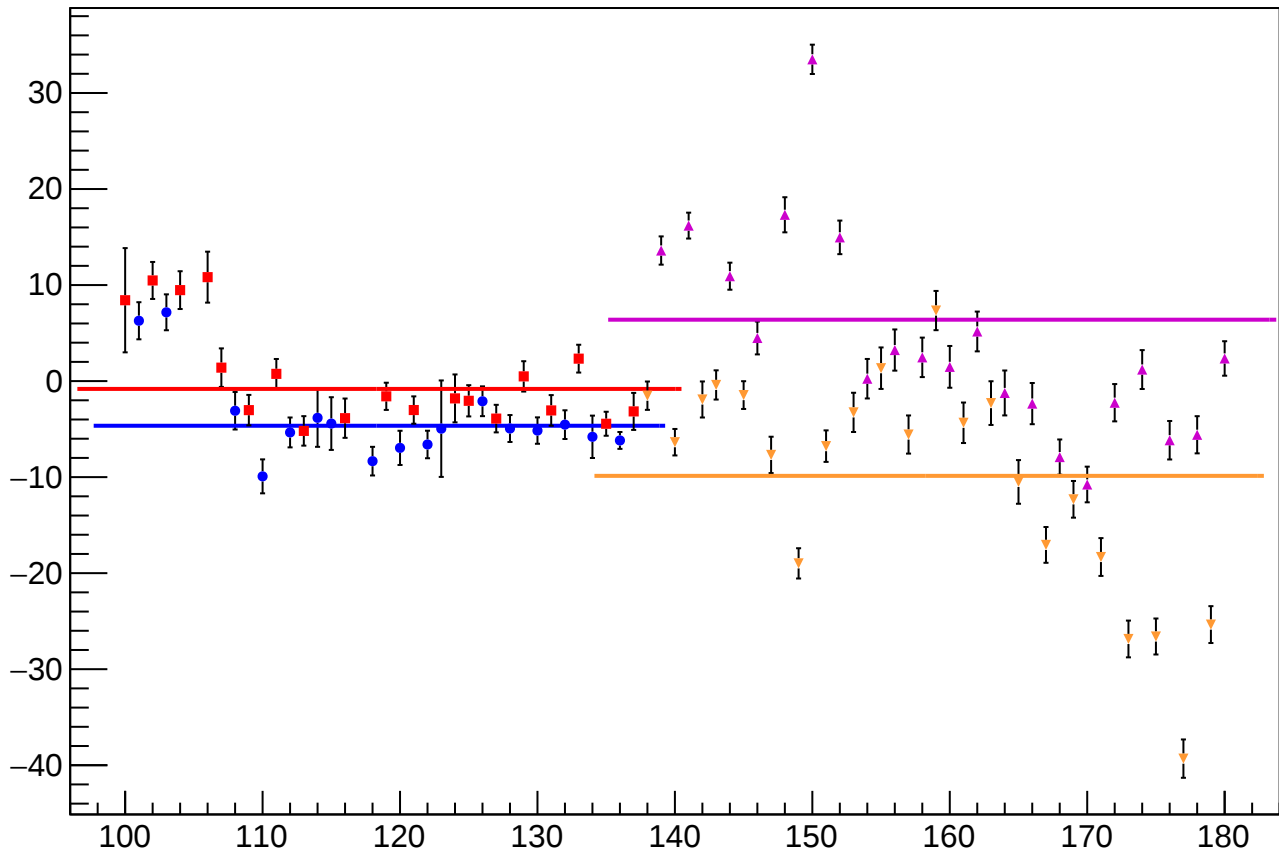
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2448.197+/-0.394 χ^2/NDF : 7586577.4/37

Out: 2432.634+/-0.386 χ^2/NDF : 7726940.0/40

All: 2440.241+/-0.276 χ^2/NDF : 15314313.1/71

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 χ^2/NDF : 97.6/16

Left Out: -9.868 ± 0.387 χ^2/NDF : 774.5/21

Right Out: -0.814 ± 0.388 χ^2/NDF : 123.7/18

Left In: 6.393 ± 0.396 χ^2/NDF : 766.1/20

Left: -1.937 ± 0.277 χ^2/NDF : 2403.5/42

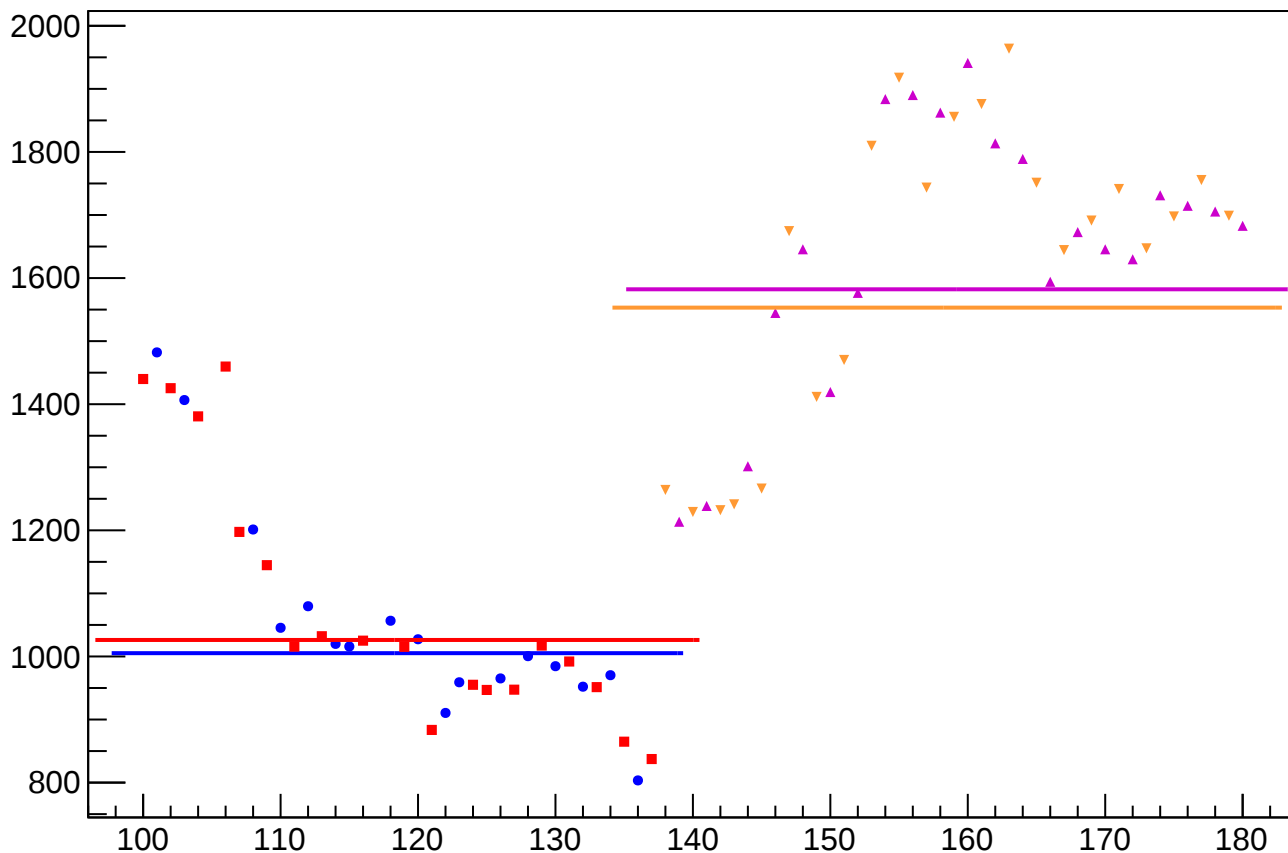
Right: -2.712 ± 0.276 χ^2/NDF : 269.5/35

In: 0.821 ± 0.279 χ^2/NDF : 1255.7/37

Out: -5.364 ± 0.274 χ^2/NDF : 1171.0/40

All: -2.325 ± 0.195 χ^2/NDF : 2676.9/78

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1553.136 ± 0.273 χ^2/NDF : 798201.5/21

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

Left In: 1582.192 ± 0.280 χ^2/NDF : 619851.4/20

Left: 1567.308 ± 0.196 χ^2/NDF : 1423563.1/42

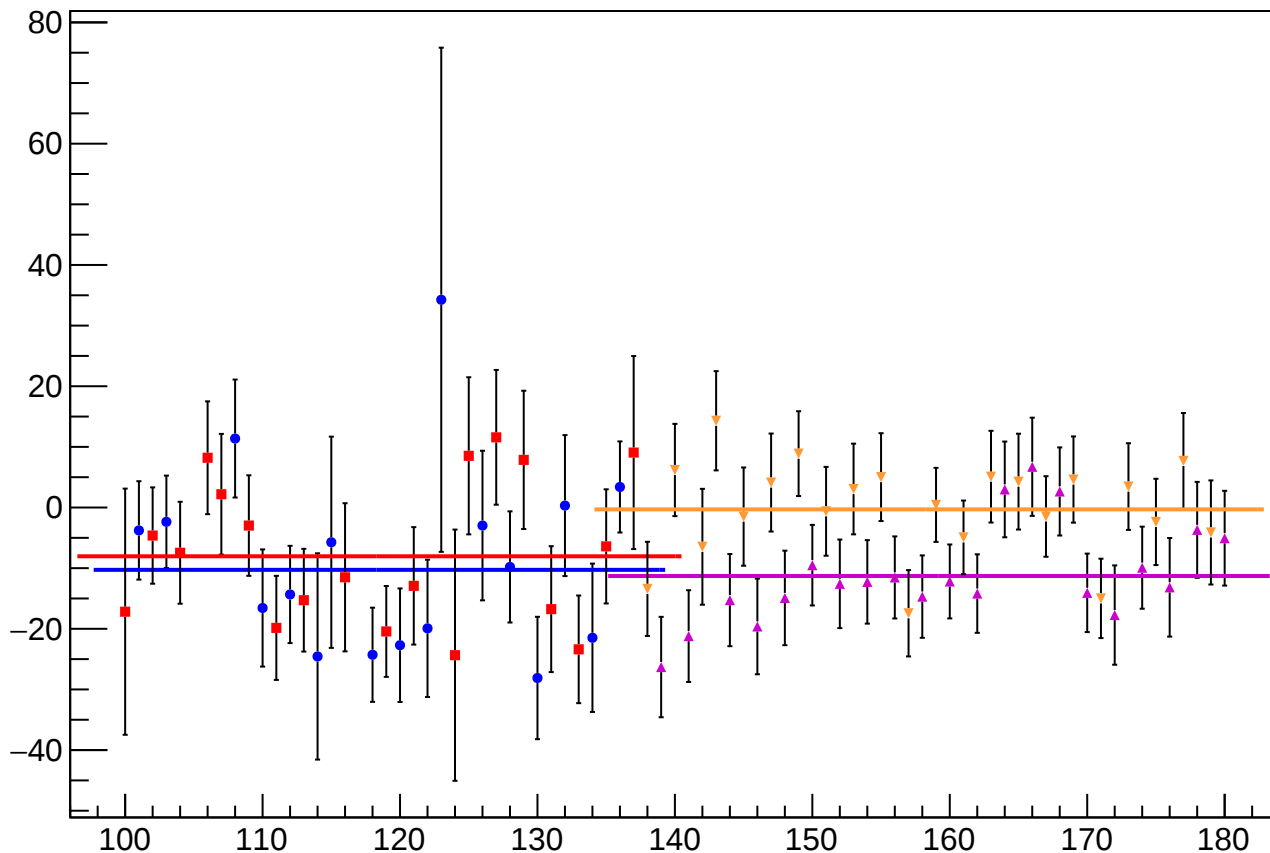
Right: 1015.803 ± 0.195 χ^2/NDF : 697945.4/35

In: 1291.103 ± 0.197 χ^2/NDF : 3121722.8/37

Out: 1290.944 ± 0.194 χ^2/NDF : 2980315.4/40

All: 1291.022 ± 0.138 χ^2/NDF : 6102038.5/78

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.308 $\pm$ 1.565 χ^2/NDF : 24.3/21

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

Left In: -11.292 $\pm$ 1.587 χ^2/NDF : 21.6/20

Left: -5.724 $\pm$ 1.114 χ^2/NDF : 70.2/42

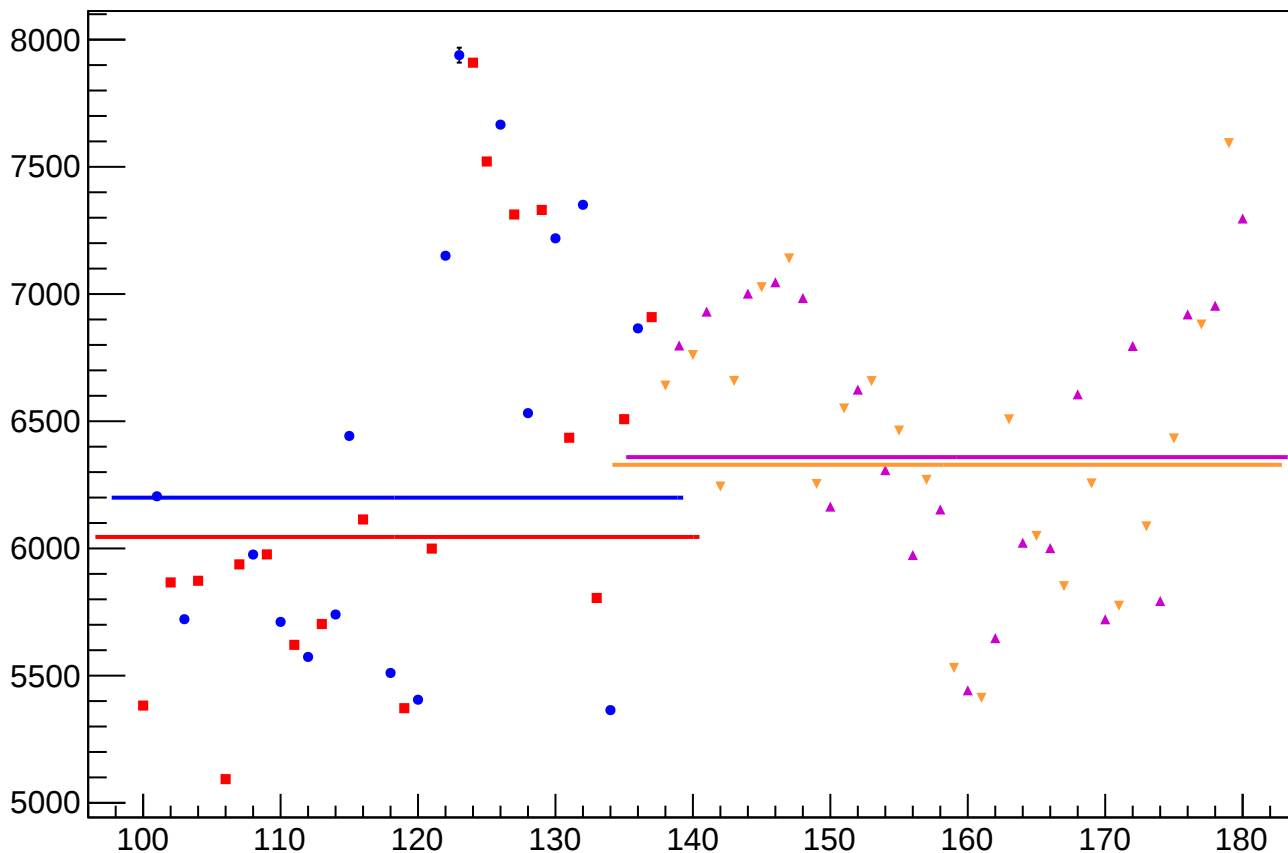
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

In: -10.985 $\pm$ 1.325 χ^2/NDF : 45.2/37

Out: -2.787 $\pm$ 1.290 χ^2/NDF : 54.9/40

All: -6.776 $\pm$ 0.924 χ^2/NDF : 119.7/78

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6199.617 ± 1.703 $\chi^2/\text{NDF}: 171760.4/16$

Left Out: 6328.787 ± 1.107 $\chi^2/\text{NDF}: 218825.8/21$

Right Out: 6045.172 ± 1.611 $\chi^2/\text{NDF}: 158323.0/18$

Left In: 6358.998 ± 1.122 $\chi^2/\text{NDF}: 240166.3/20$

Left: 6343.685 ± 0.788 $\chi^2/\text{NDF}: 459359.6/42$

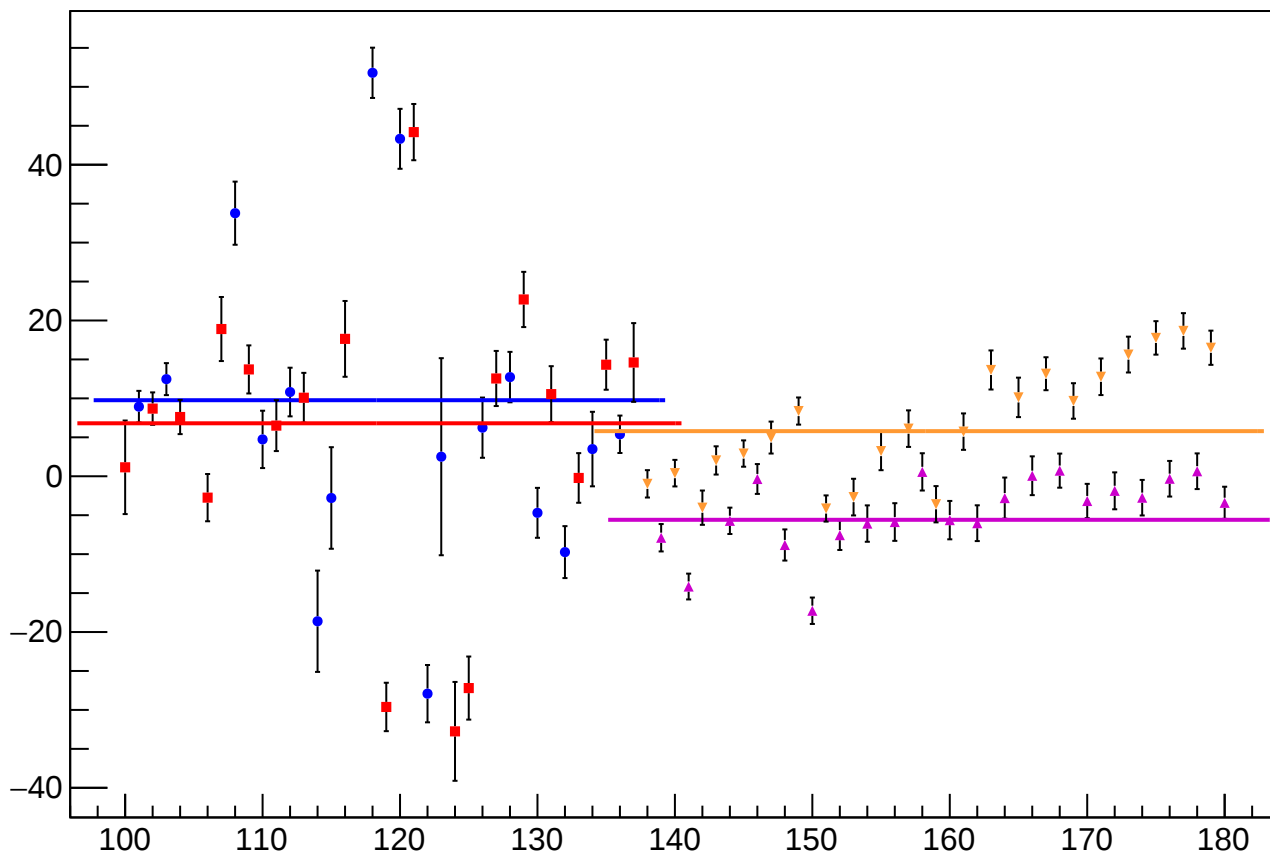
Right: 6118.133 ± 1.170 $\chi^2/\text{NDF}: 334424.9/35$

In: 6310.733 ± 0.937 $\chi^2/\text{NDF}: 418036.1/37$

Out: 6237.857 ± 0.912 $\chi^2/\text{NDF}: 398203.1/40$

All: 6273.322 ± 0.654 $\chi^2/\text{NDF}: 819345.0/78$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 ± 0.797 χ^2/NDF : 473.8/16

Left Out: 5.793 ± 0.444 χ^2/NDF : 261.0/21

Right Out: 6.801 ± 0.765 χ^2/NDF : 421.8/18

Left In: -5.590 ± 0.458 χ^2/NDF : 127.4/20

Left: 0.269 ± 0.319 χ^2/NDF : 706.7/42

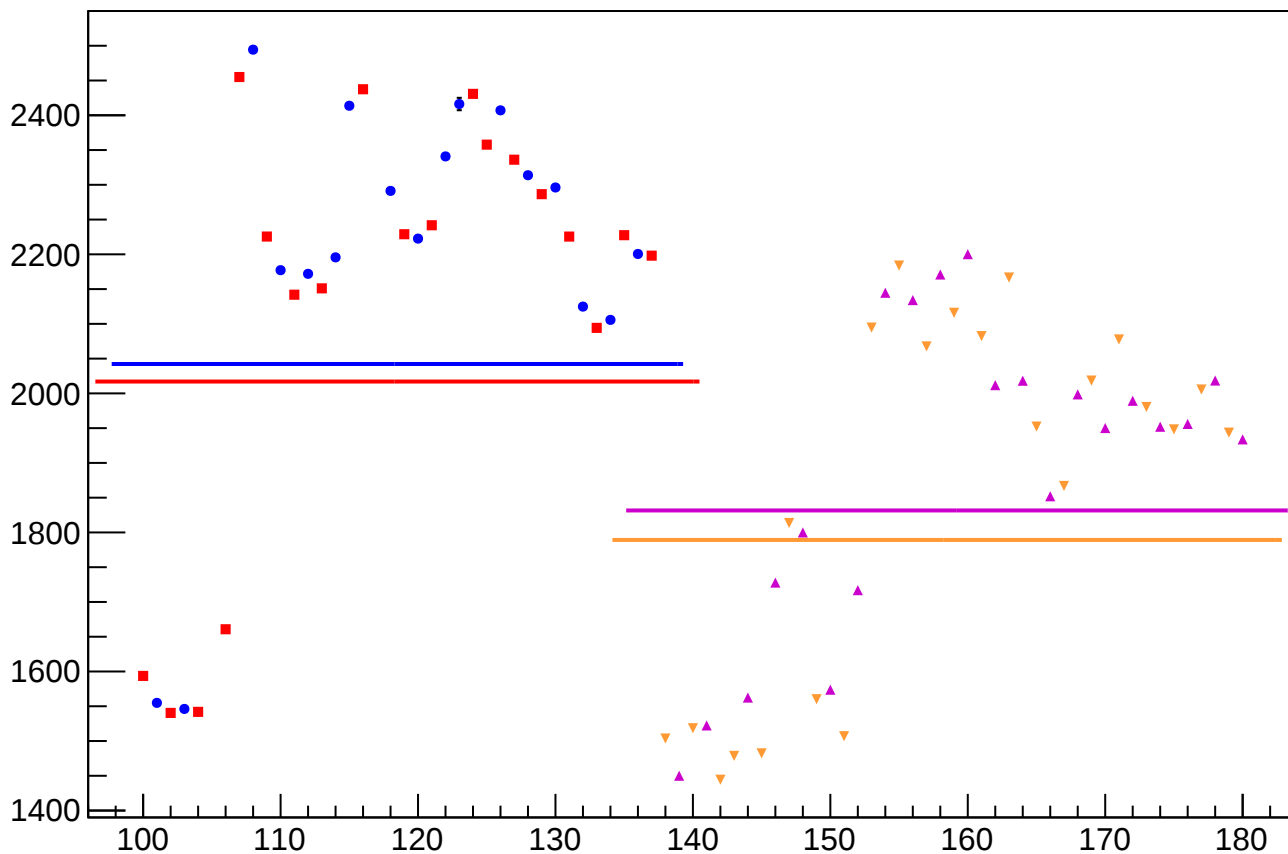
Right: 8.222 ± 0.552 χ^2/NDF : 902.8/35

In: -1.780 ± 0.397 χ^2/NDF : 880.3/37

Out: 6.048 ± 0.384 χ^2/NDF : 684.1/40

All: 2.260 ± 0.276 χ^2/NDF : 1765.2/78

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269 $\pm$ 0.563 χ^2 /NDF: 356820.1/16

Left Out: 1789.213 $\pm$ 0.314 χ^2 /NDF: 711880.0/21

Right Out: 2017.026 $\pm$ 0.541 χ^2 /NDF: 375630.3/18

Left In: 1831.620 $\pm$ 0.324 χ^2 /NDF: 504864.7/20

Left: 1809.793 $\pm$ 0.225 χ^2 /NDF: 1225579.9/42

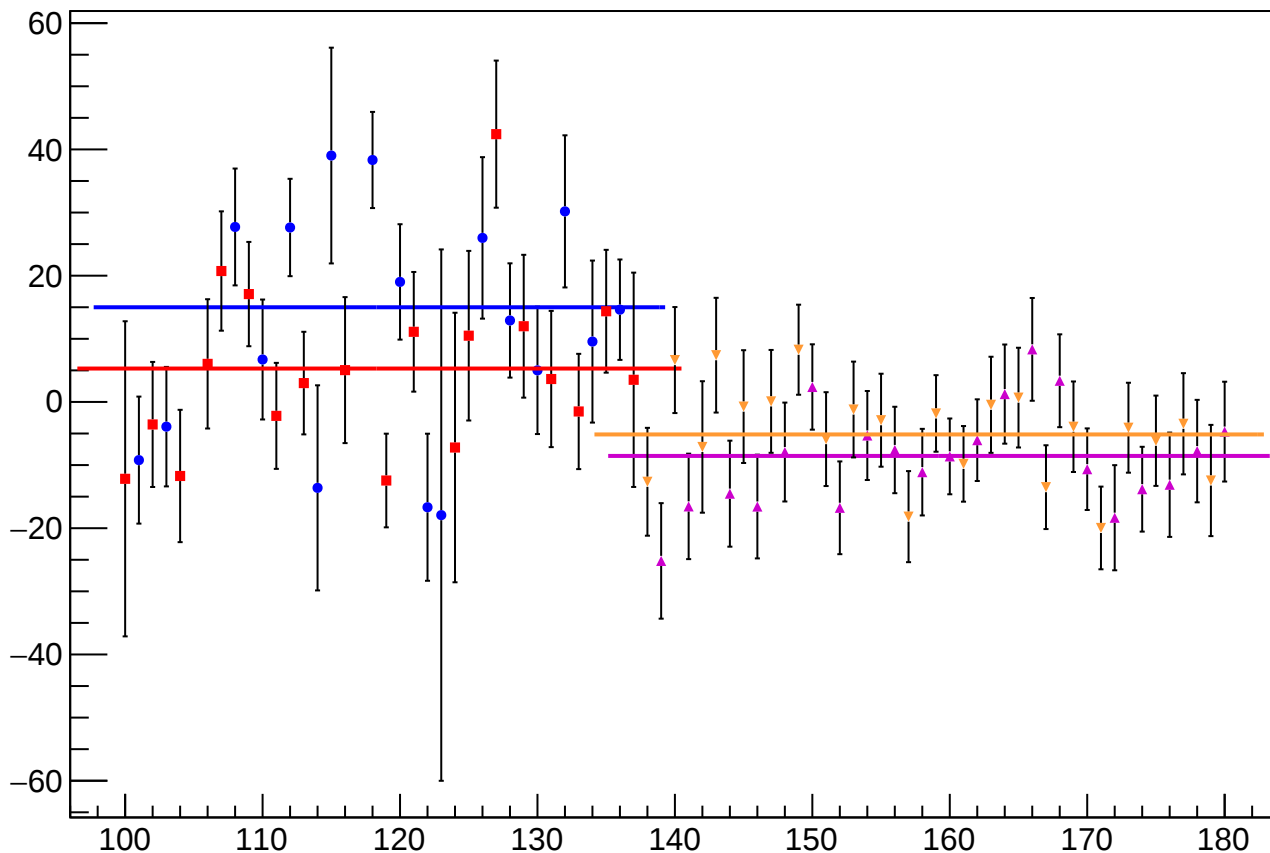
Right: 2029.129 $\pm$ 0.390 χ^2 /NDF: 733495.1/35

In: 1883.886 $\pm$ 0.281 χ^2 /NDF: 966771.5/37

Out: 1846.736 $\pm$ 0.272 χ^2 /NDF: 1220172.2/40

All: 1864.710 $\pm$ 0.195 χ^2 /NDF: 2195987.5/78

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 ± 2.485 $\chi^2/\text{NDF}: 41.3/16$

Left Out: -5.147 ± 1.599 $\chi^2/\text{NDF}: 21.8/21$

Right Out: 5.291 ± 2.357 $\chi^2/\text{NDF}: 28.1/18$

Left In: -8.551 ± 1.617 $\chi^2/\text{NDF}: 21.2/20$

Left: -6.830 ± 1.137 $\chi^2/\text{NDF}: 45.3/42$

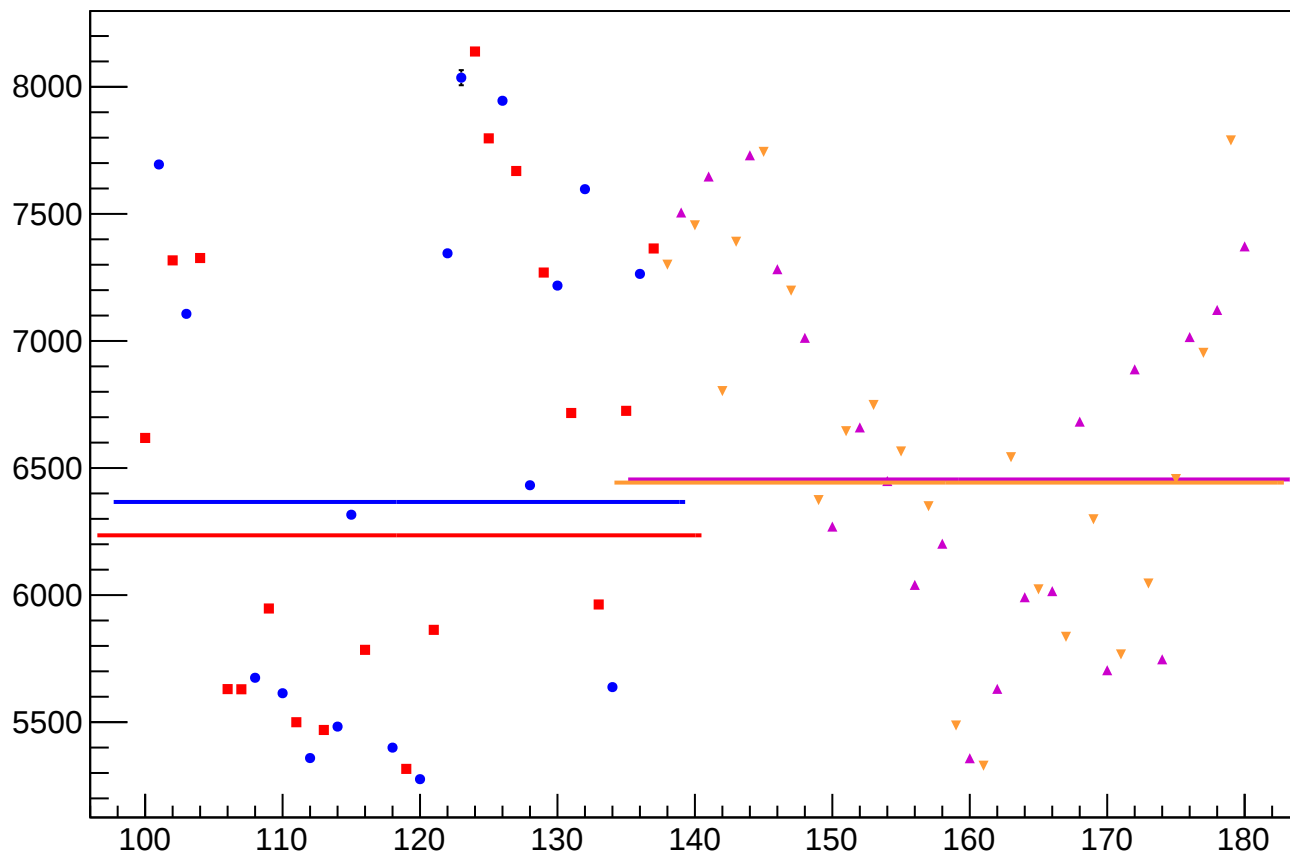
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: -1.548 ± 1.355 $\chi^2/\text{NDF}: 125.6/37$

Out: -1.858 ± 1.323 $\chi^2/\text{NDF}: 63.3/40$

All: -1.707 ± 0.947 $\chi^2/\text{NDF}: 189.0/78$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6442.721 $\pm$ 1.131 χ^2/NDF : 363594.2/21

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

Left In: 6455.023 $\pm$ 1.143 χ^2/NDF : 375002.1/20

Left: 6448.804 $\pm$ 0.804 χ^2/NDF : 738654.8/42

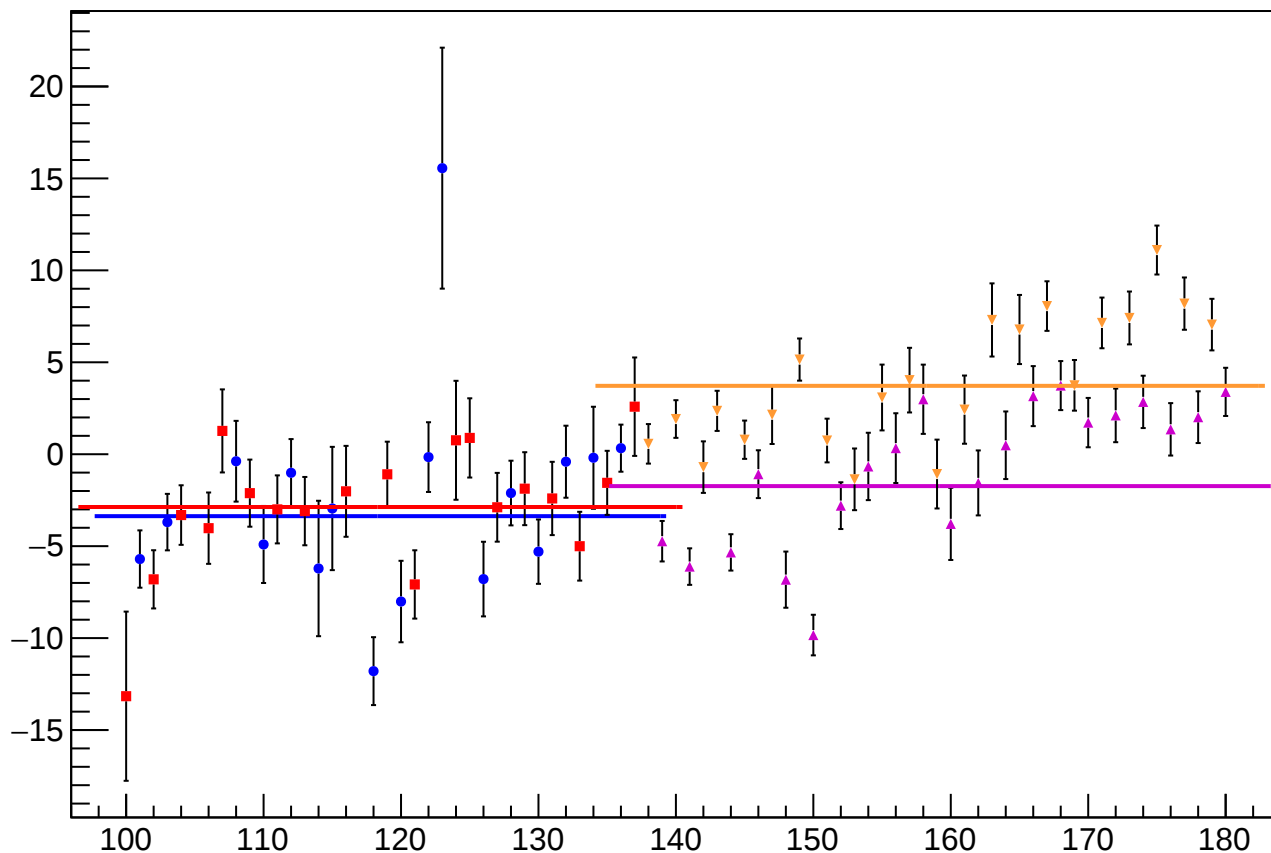
Right: 6297.369 $\pm$ 1.209 χ^2/NDF : 532637.5/35

In: 6428.696 $\pm$ 0.958 χ^2/NDF : 663279.9/37

Out: 6377.325 $\pm$ 0.936 χ^2/NDF : 617415.3/40

All: 6402.397 $\pm$ 0.670 χ^2/NDF : 1282166.1/78

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Left: 1.067 ± 0.209 χ^2/NDF : 494.3/42

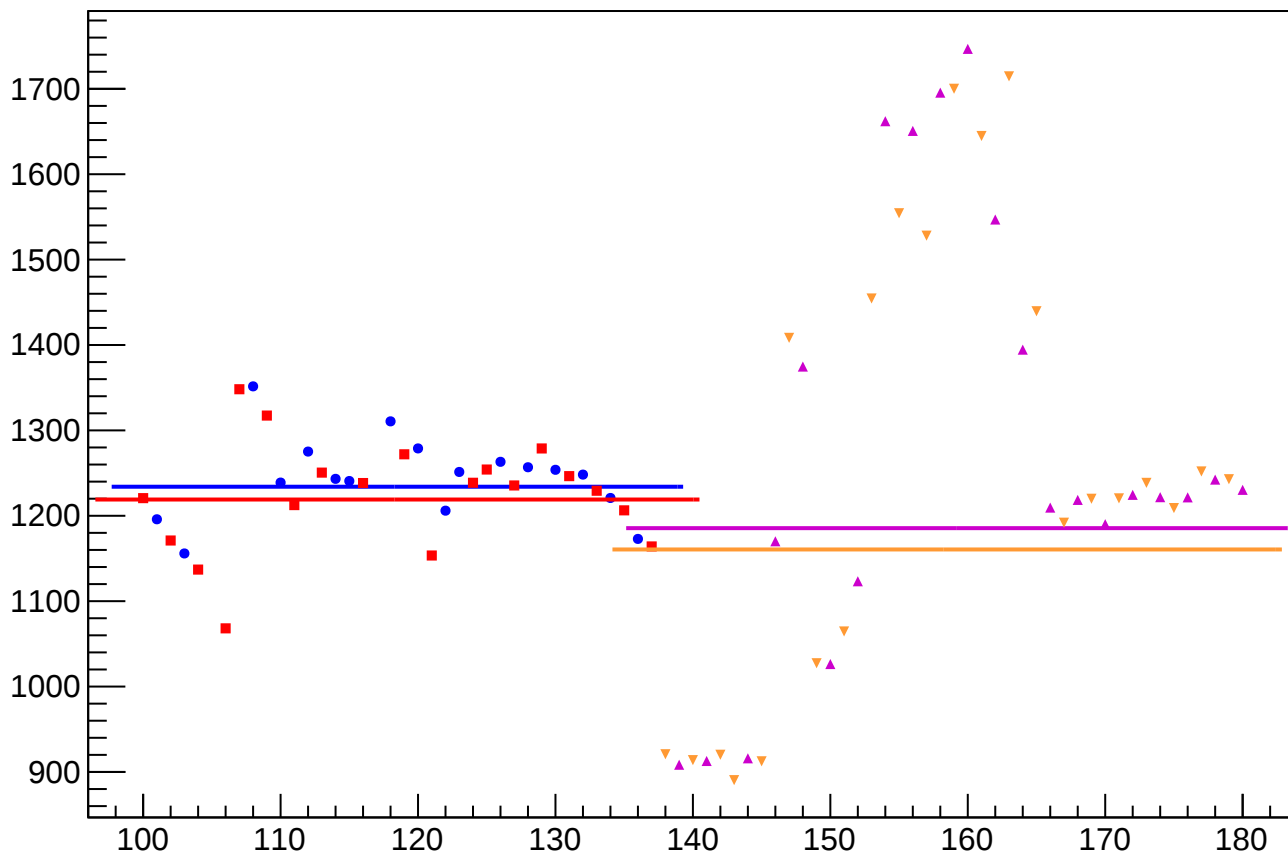
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.200 ± 0.254 χ^2/NDF : 261.5/37

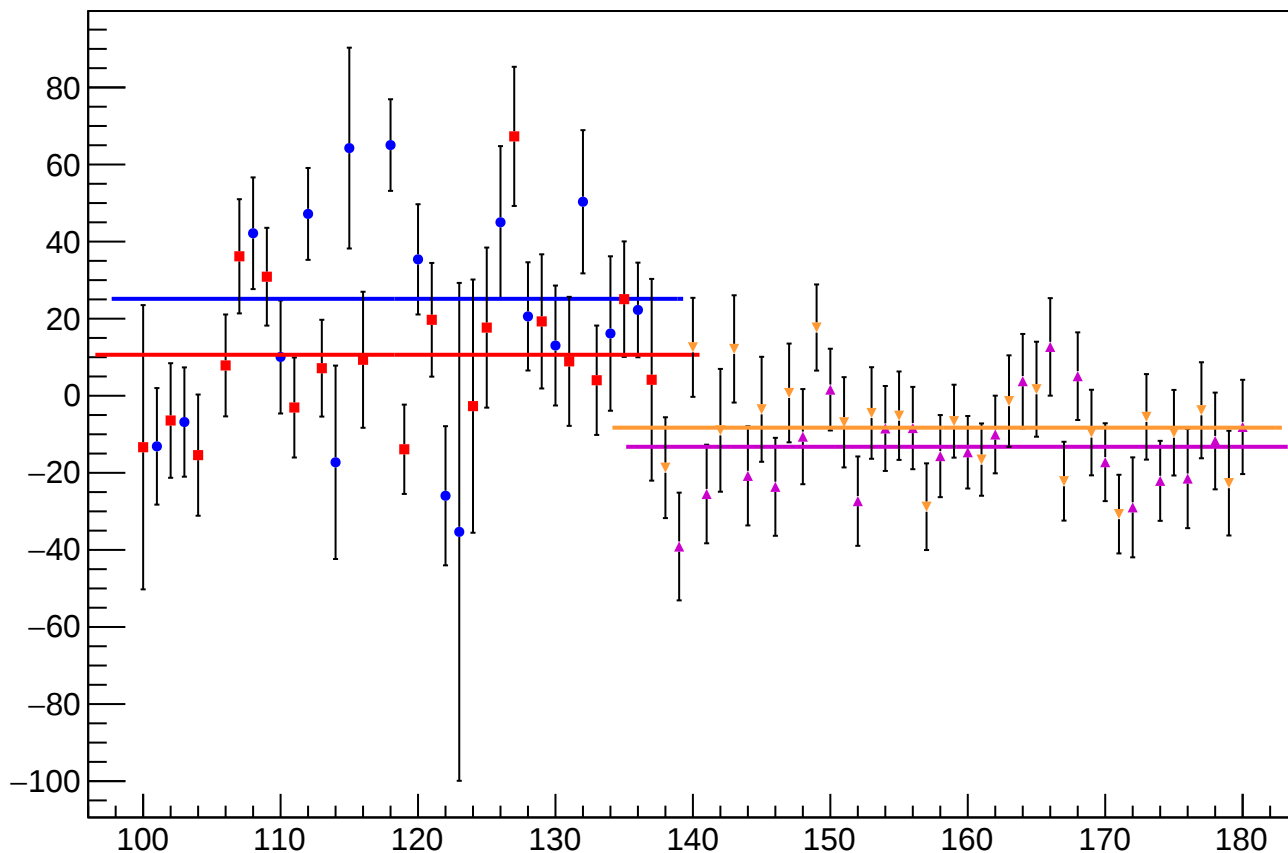
Out: 1.803 ± 0.246 χ^2/NDF : 311.6/40

All: -0.136 ± 0.177 χ^2/NDF : 701.3/78

diff_bpm0l06Y_rms vs Slug, Sign Corrected



diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149 $\pm$ 3.837 χ^2/NDF : 46.9/16

Left Out: -8.283 $\pm$ 2.485 χ^2/NDF : 24.8/21

Right Out: 10.634 $\pm$ 3.595 χ^2/NDF : 27.7/18

Left In: -13.245 $\pm$ 2.515 χ^2/NDF : 21.1/20

Left: -10.734 $\pm$ 1.768 χ^2/NDF : 47.8/42

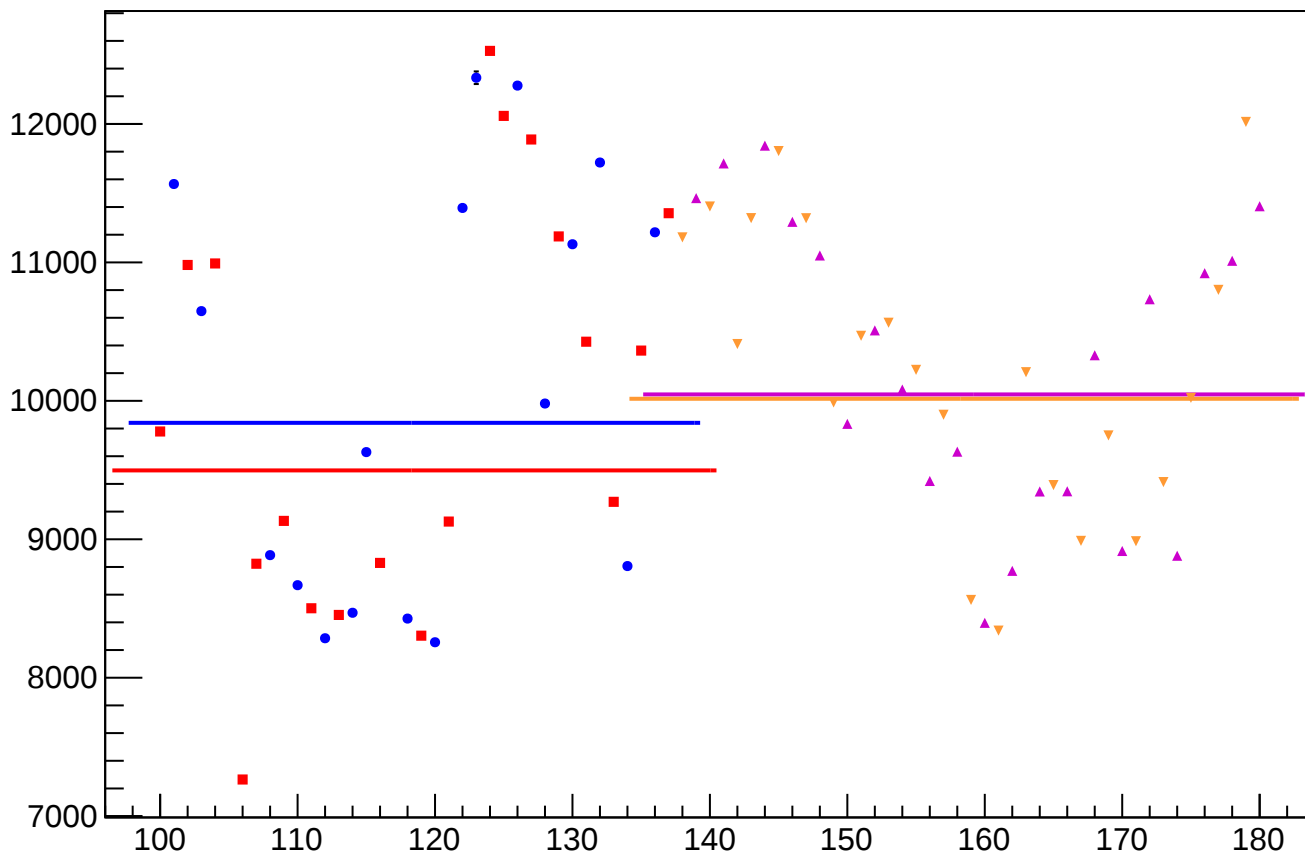
Right: 17.418 $\pm$ 2.623 χ^2/NDF : 82.3/35

In: -1.707 $\pm$ 2.104 χ^2/NDF : 138.0/37

Out: -2.167 $\pm$ 2.044 χ^2/NDF : 71.2/40

All: -1.943 $\pm$ 1.466 χ^2/NDF : 209.3/78

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10014.896 ± 1.757 $\chi^2/\text{NDF}: 336876.3/21$

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

Left In: 10046.358 ± 1.779 $\chi^2/\text{NDF}: 349073.3/20$

Left: 10030.435 ± 1.250 $\chi^2/\text{NDF}: 686108.0/42$

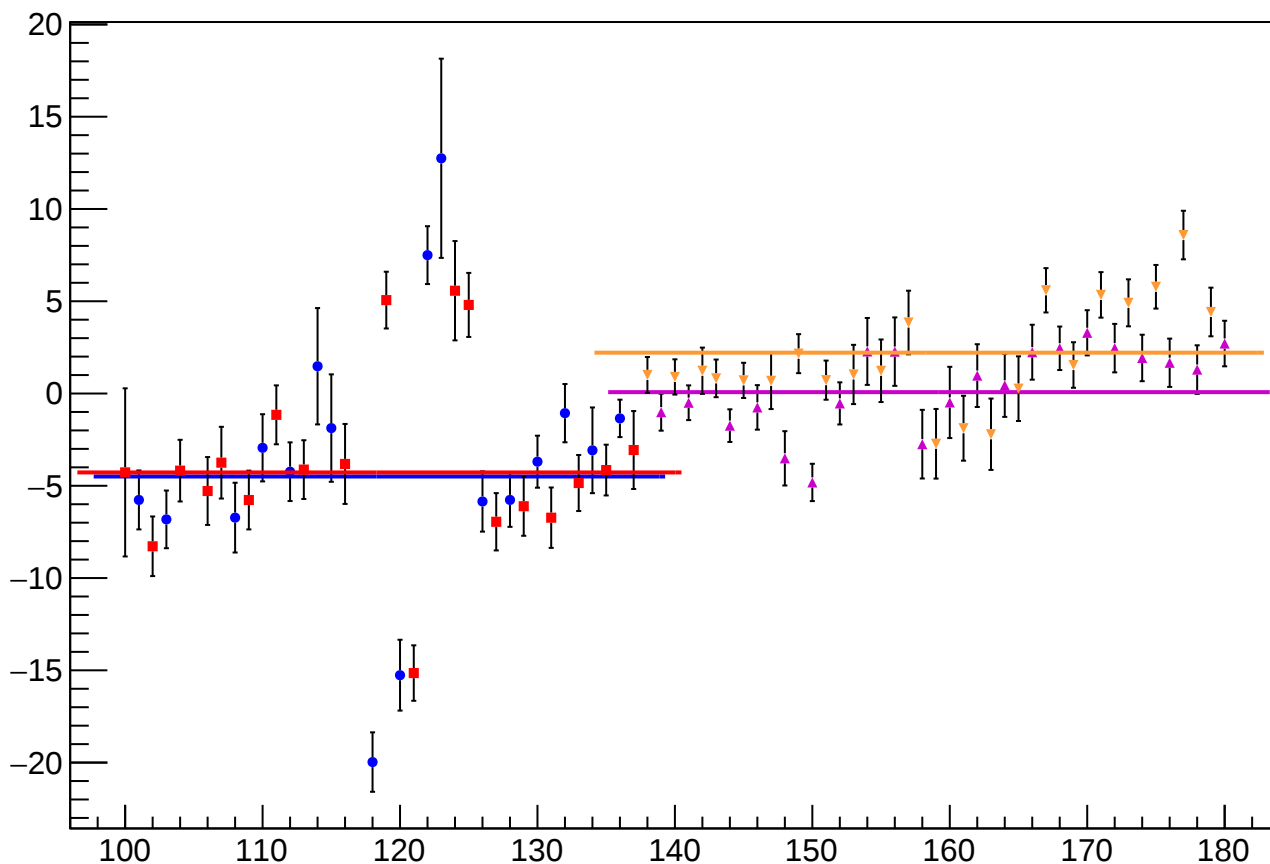
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9984.697 ± 1.487 $\chi^2/\text{NDF}: 613135.4/37$

Out: 9847.607 ± 1.445 $\chi^2/\text{NDF}: 641616.1/40$

All: 9914.181 ± 1.037 $\chi^2/\text{NDF}: 1259120.5/78$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 2.213 ± 0.269 χ^2/NDF : 86.4/21

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

Left In: 0.074 ± 0.277 χ^2/NDF : 66.9/20

Left: 1.177 ± 0.193 χ^2/NDF : 184.0/42

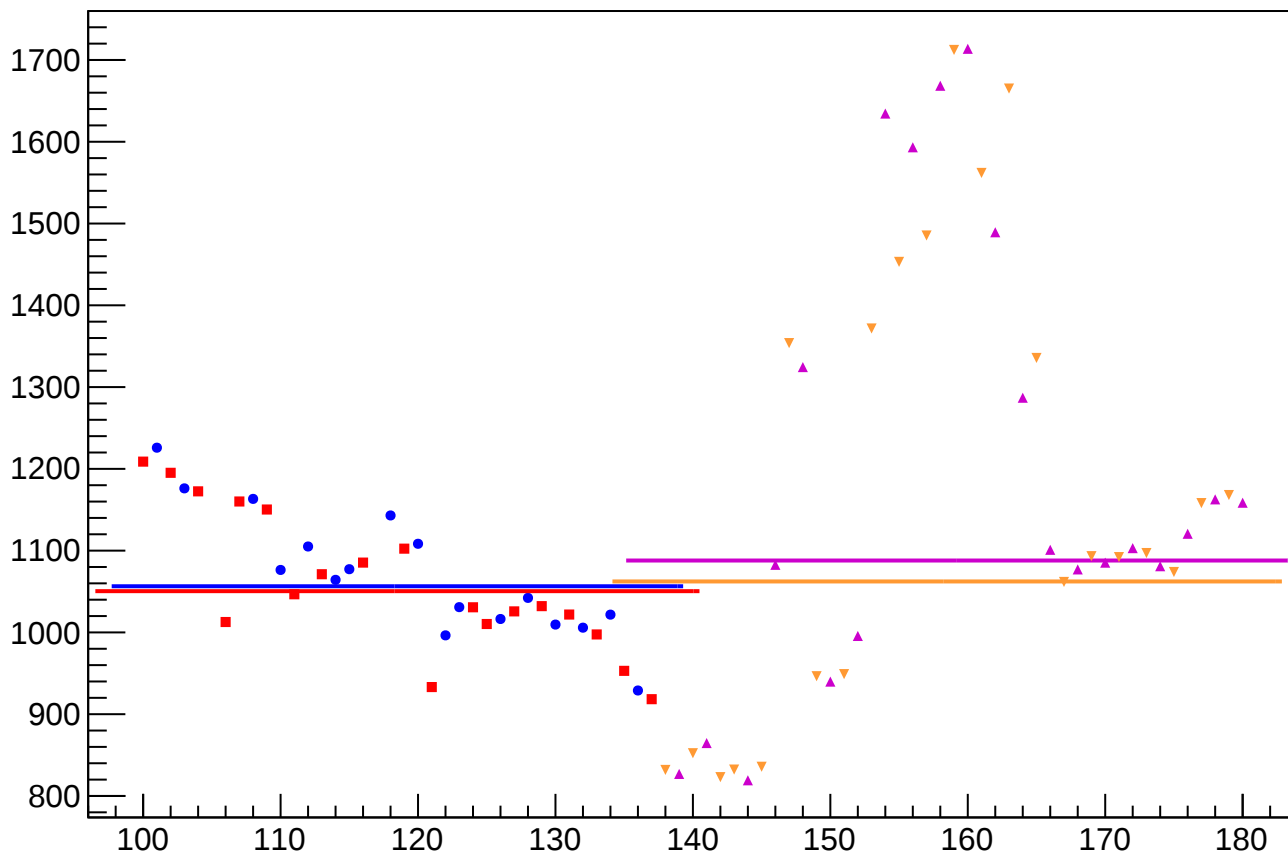
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.369 ± 0.229 χ^2/NDF : 371.1/37

Out: 0.151 ± 0.222 χ^2/NDF : 419.9/40

All: -0.585 ± 0.160 χ^2/NDF : 813.7/78

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1062.318 $\pm$ 0.190 χ^2/NDF : 1586817.1/21

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

Left In: 1087.917 $\pm$ 0.196 χ^2/NDF : 1429513.4/20

Left: 1074.724 $\pm$ 0.136 χ^2/NDF : 3025116.8/42

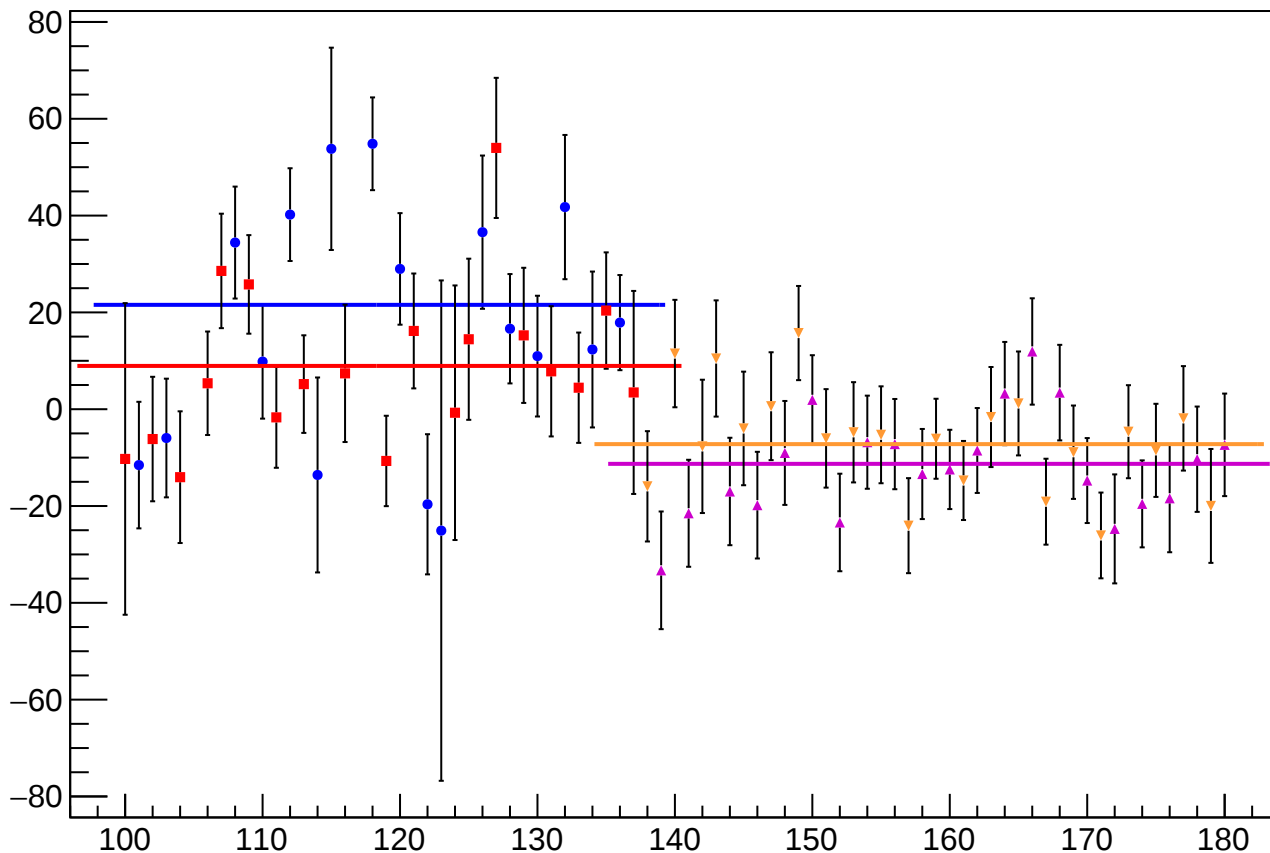
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

In: 1077.977 $\pm$ 0.162 χ^2/NDF : 1528427.3/37

Out: 1058.544 $\pm$ 0.157 χ^2/NDF : 1670453.6/40

All: 1067.947 $\pm$ 0.113 χ^2/NDF : 3206291.6/78

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561 ± 3.110 $\chi^2/\text{NDF}: 48.4/16$

Left Out: -7.214 ± 2.159 $\chi^2/\text{NDF}: 24.4/21$

Right Out: 8.943 ± 2.912 $\chi^2/\text{NDF}: 27.4/18$

Left In: -11.288 ± 2.186 $\chi^2/\text{NDF}: 20.6/20$

Left: -9.226 ± 1.536 $\chi^2/\text{NDF}: 46.8/42$

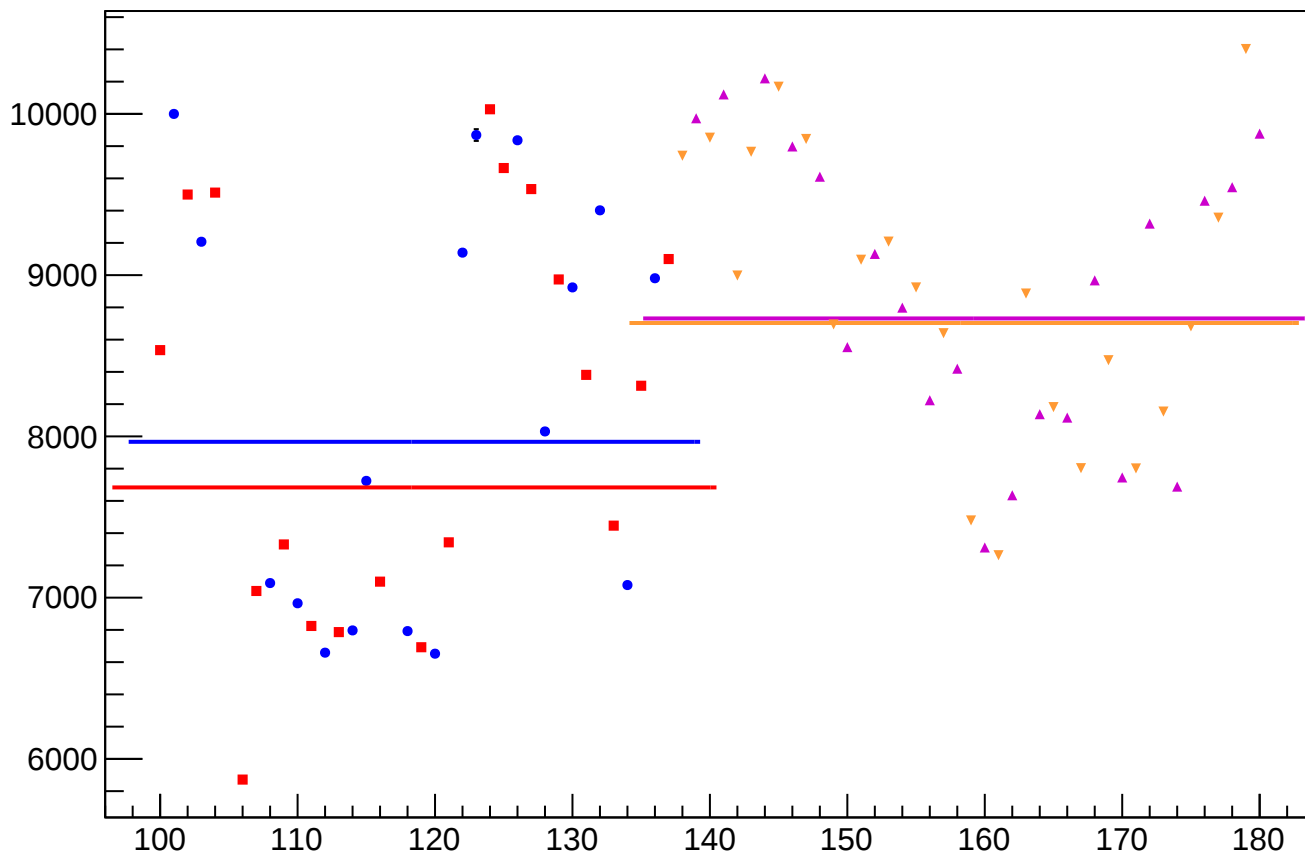
Right: 14.837 ± 2.126 $\chi^2/\text{NDF}: 84.6/35$

In: -0.430 ± 1.788 $\chi^2/\text{NDF}: 143.7/37$

Out: -1.483 ± 1.734 $\chi^2/\text{NDF}: 71.7/40$

All: -0.973 ± 1.245 $\chi^2/\text{NDF}: 215.6/78$

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8703.194 $\pm$ 1.527 χ^2 /NDF: 325004.6/21

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

Left In: 8731.489 $\pm$ 1.545 χ^2 /NDF: 338595.9/20

Left: 8717.167 $\pm$ 1.086 χ^2 /NDF: 663770.2/42

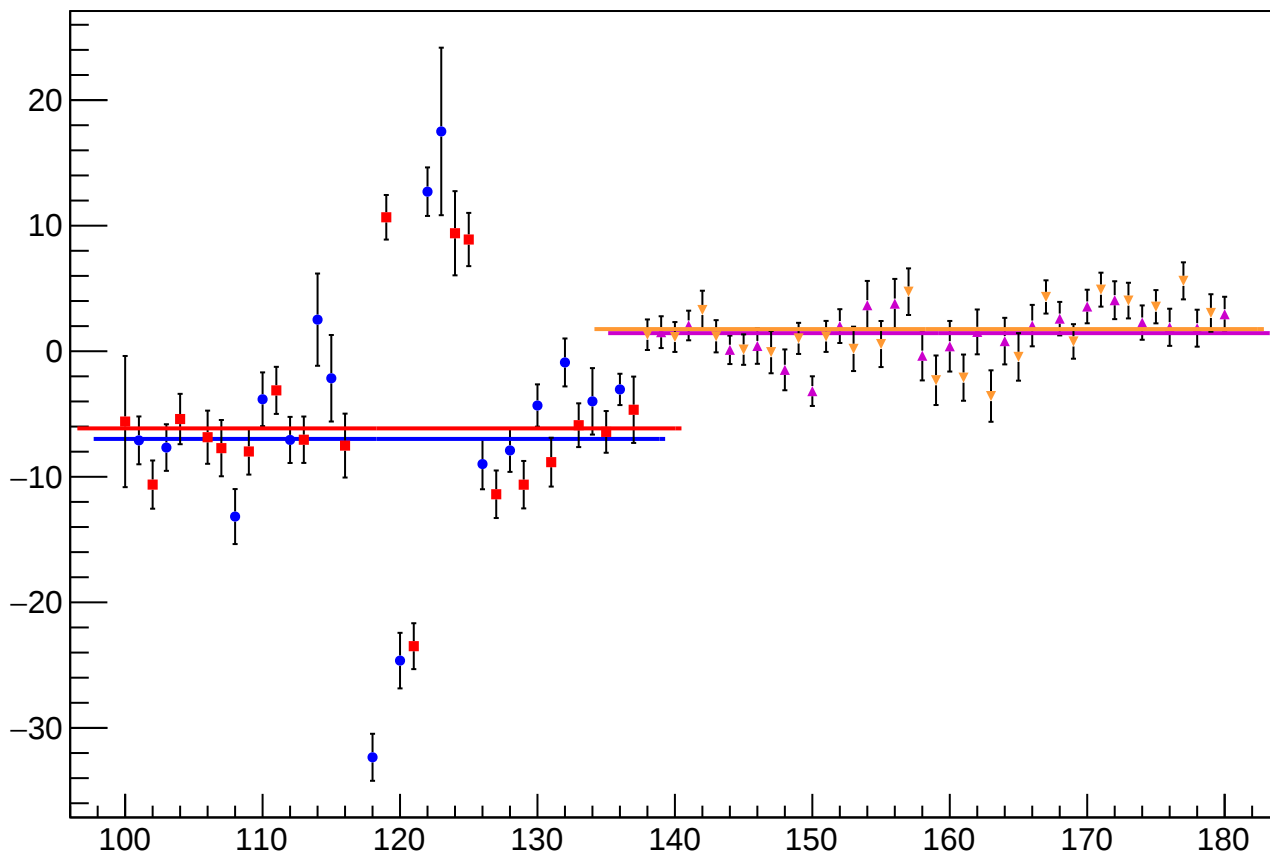
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8478.603 $\pm$ 1.264 χ^2 /NDF: 716220.5/37

Out: 8341.504 $\pm$ 1.226 χ^2 /NDF: 798311.8/40

All: 8407.952 $\pm$ 0.880 χ^2 /NDF: 1520590.5/78

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 ± 0.486 χ^2/NDF : 408.5/16

Left Out: 1.764 ± 0.311 χ^2/NDF : 47.3/21

Right Out: -6.145 ± 0.467 χ^2/NDF : 277.5/18

Left In: 1.441 ± 0.320 χ^2/NDF : 33.0/20

Left: 1.607 ± 0.223 χ^2/NDF : 80.8/42

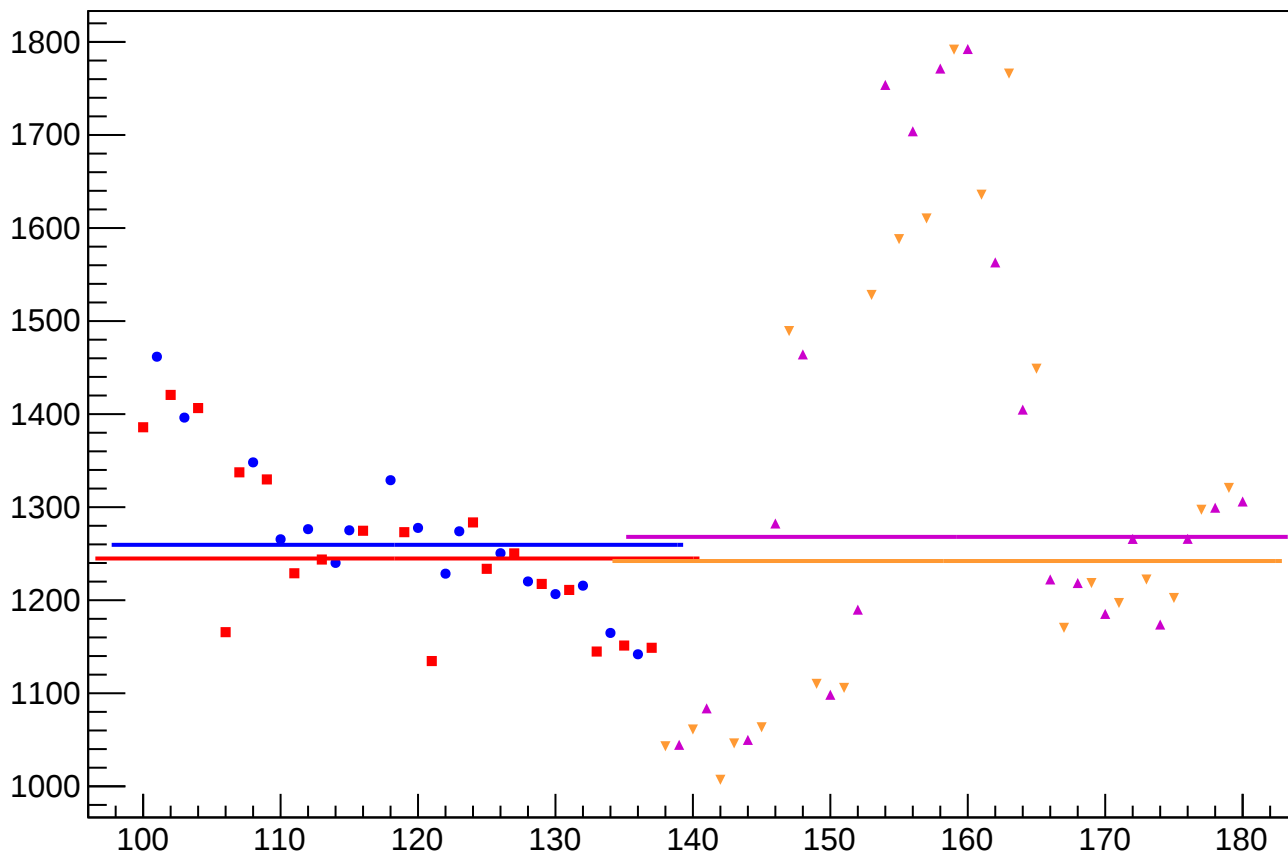
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.101 ± 0.267 χ^2/NDF : 651.2/37

Out: -0.666 ± 0.259 χ^2/NDF : 523.8/40

All: -0.877 ± 0.186 χ^2/NDF : 1176.3/78

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1242.128 $\pm$ 0.220 χ^2/NDF : 949775.2/21

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

Left In: 1268.075 $\pm$ 0.226 χ^2/NDF : 842109.7/20

Left: 1254.740 $\pm$ 0.158 χ^2/NDF : 1798660.5/42

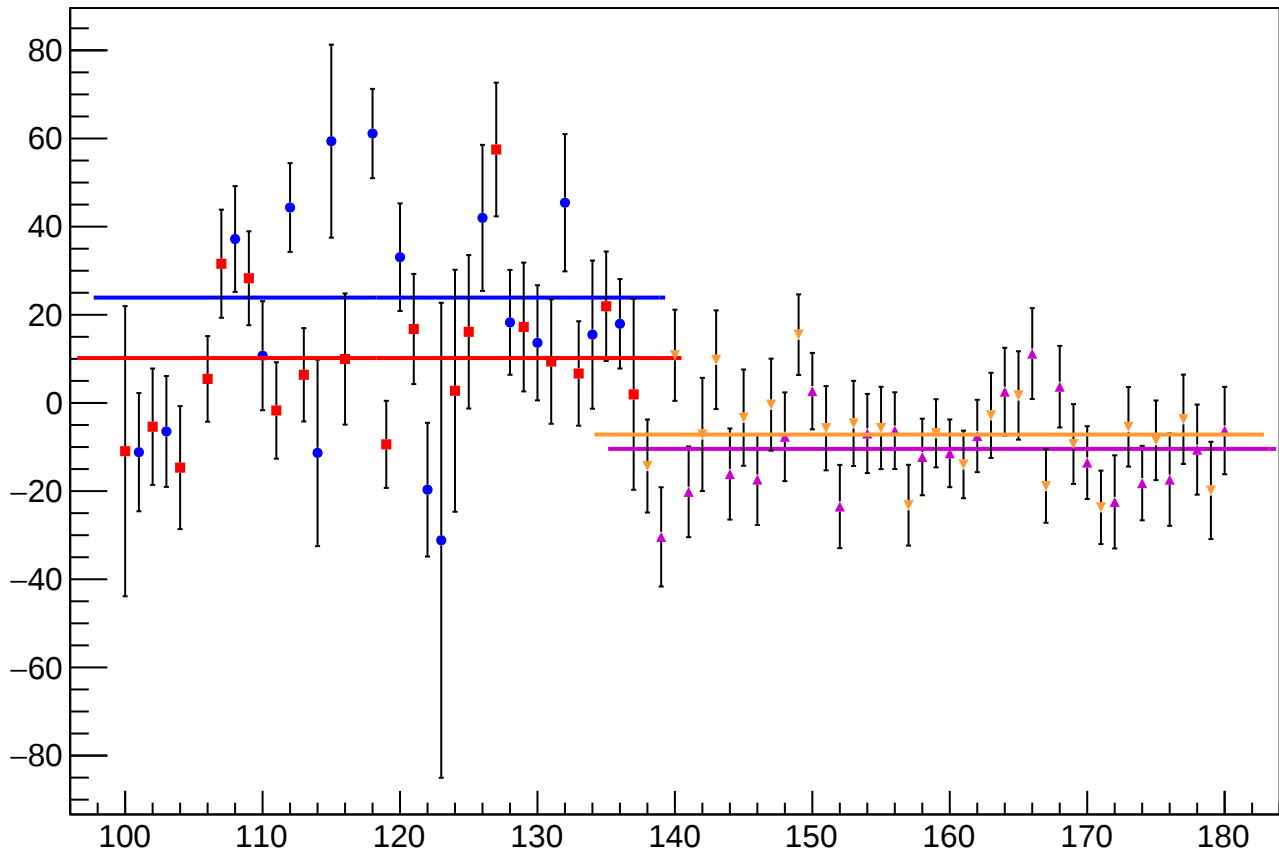
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1265.497 $\pm$ 0.189 χ^2/NDF : 907385.5/37

Out: 1242.961 $\pm$ 0.183 χ^2/NDF : 1016647.9/40

All: 1253.870 $\pm$ 0.131 χ^2/NDF : 1931382.0/78

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -7.163 ± 2.021 $\chi^2/\text{NDF}: 24.9/21$

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

Left In: -10.420 ± 2.046 $\chi^2/\text{NDF}: 21.0/20$

Left: -8.771 ± 1.438 $\chi^2/\text{NDF}: 47.1/42$

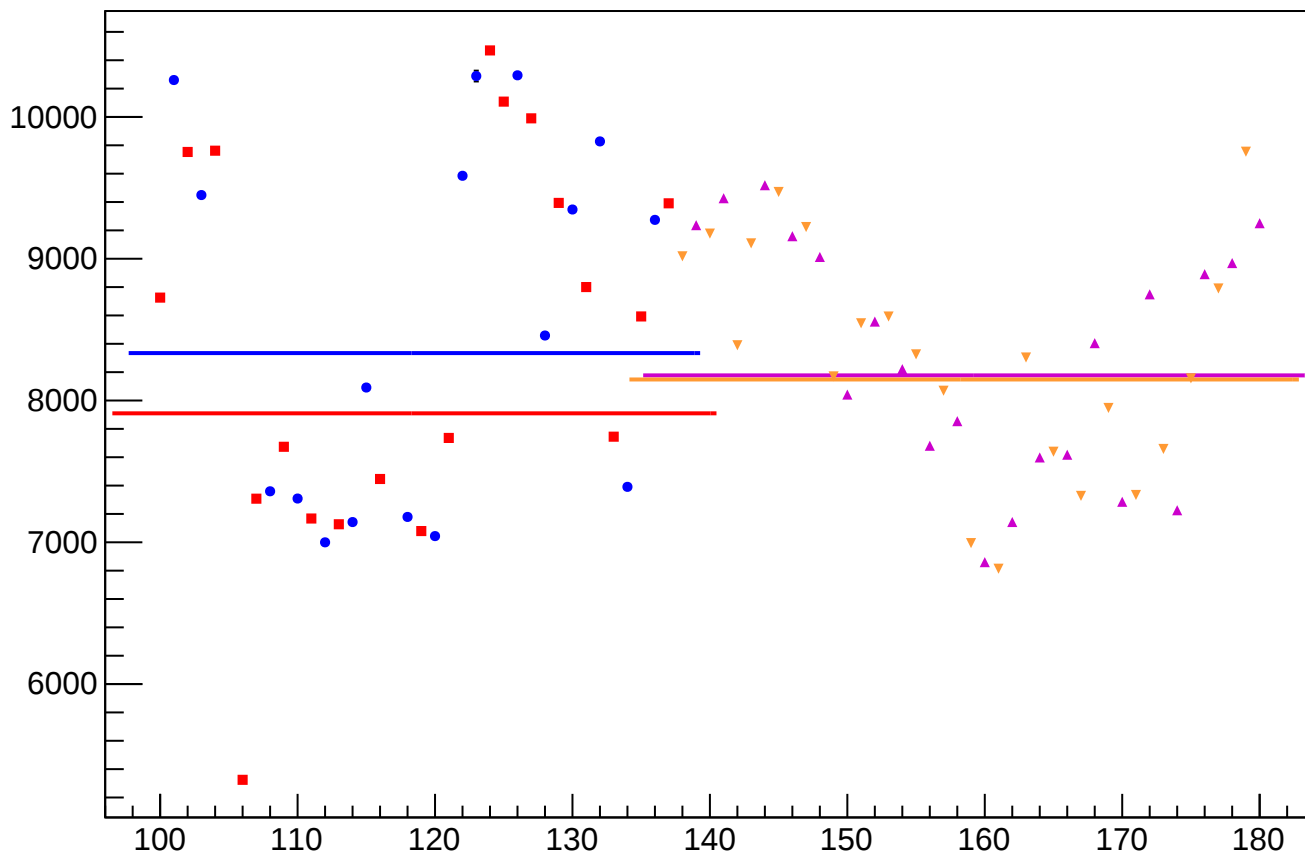
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: -0.678 ± 1.732 $\chi^2/\text{NDF}: 153.3/37$

Out: -1.761 ± 1.677 $\chi^2/\text{NDF}: 75.8/40$

All: -1.237 ± 1.205 $\chi^2/\text{NDF}: 229.2/78$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8148.359 $\pm$ 1.429 χ^2 /NDF:314697.0/21

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

Left In: 8177.247 $\pm$ 1.447 χ^2 /NDF:329513.3/20

Left: 8162.622 $\pm$ 1.017 χ^2 /NDF: 644412.1/42

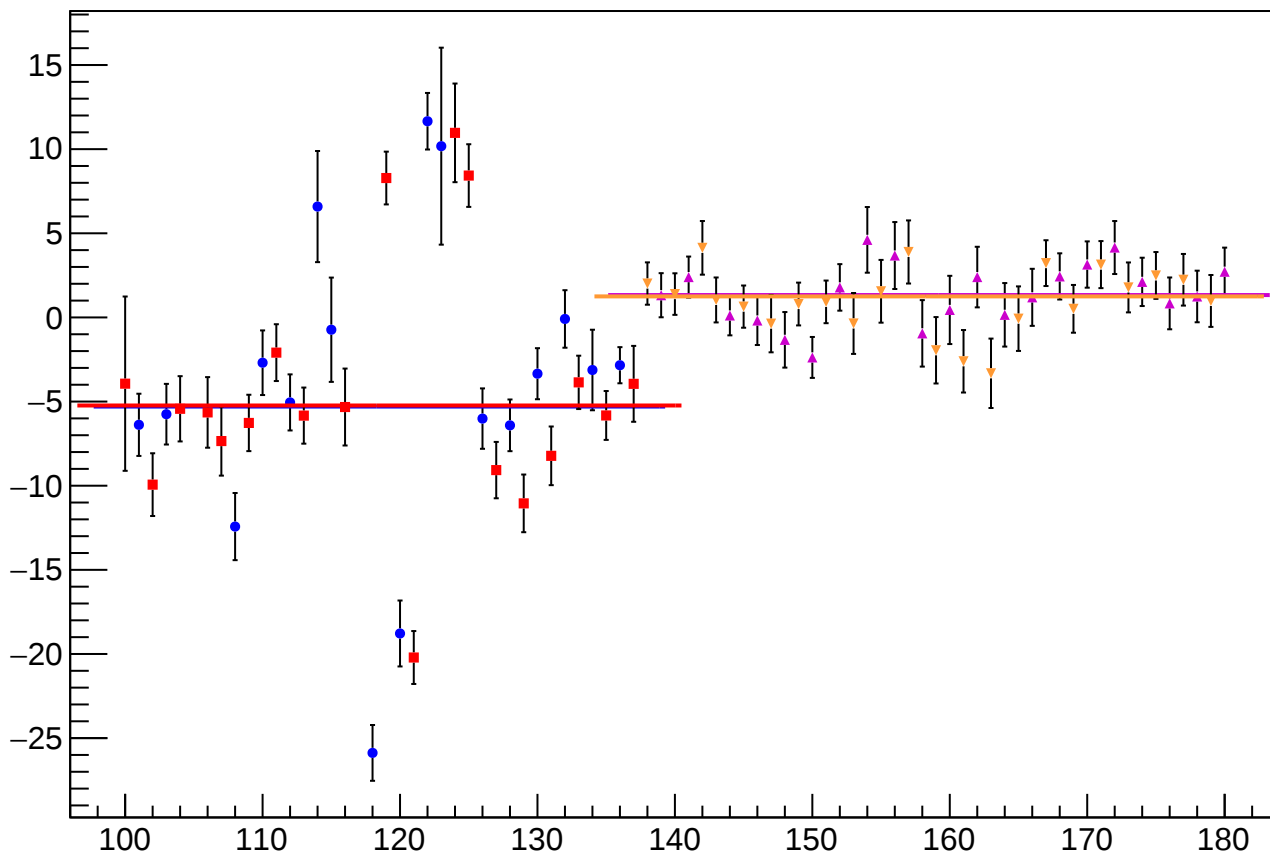
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8221.881 $\pm$ 1.225 χ^2 /NDF:605168.3/37

Out: 8074.037 $\pm$ 1.186 χ^2 /NDF:714206.8/40

All: 8145.584 $\pm$ 0.852 χ^2 /NDF: 1326897.8/78

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.295 $\pm$ 0.437 χ^2/NDF : 358.1/16

Left Out: 1.250 $\pm$ 0.320 χ^2/NDF :25.7/21

Right Out: -5.233 $\pm$ 0.422 χ^2/NDF : 281.9/18

Left In: 1.329 $\pm$ 0.329 χ^2/NDF :28.3/20

Left: 1.288 $\pm$ 0.229 χ^2/NDF : 54.1/42

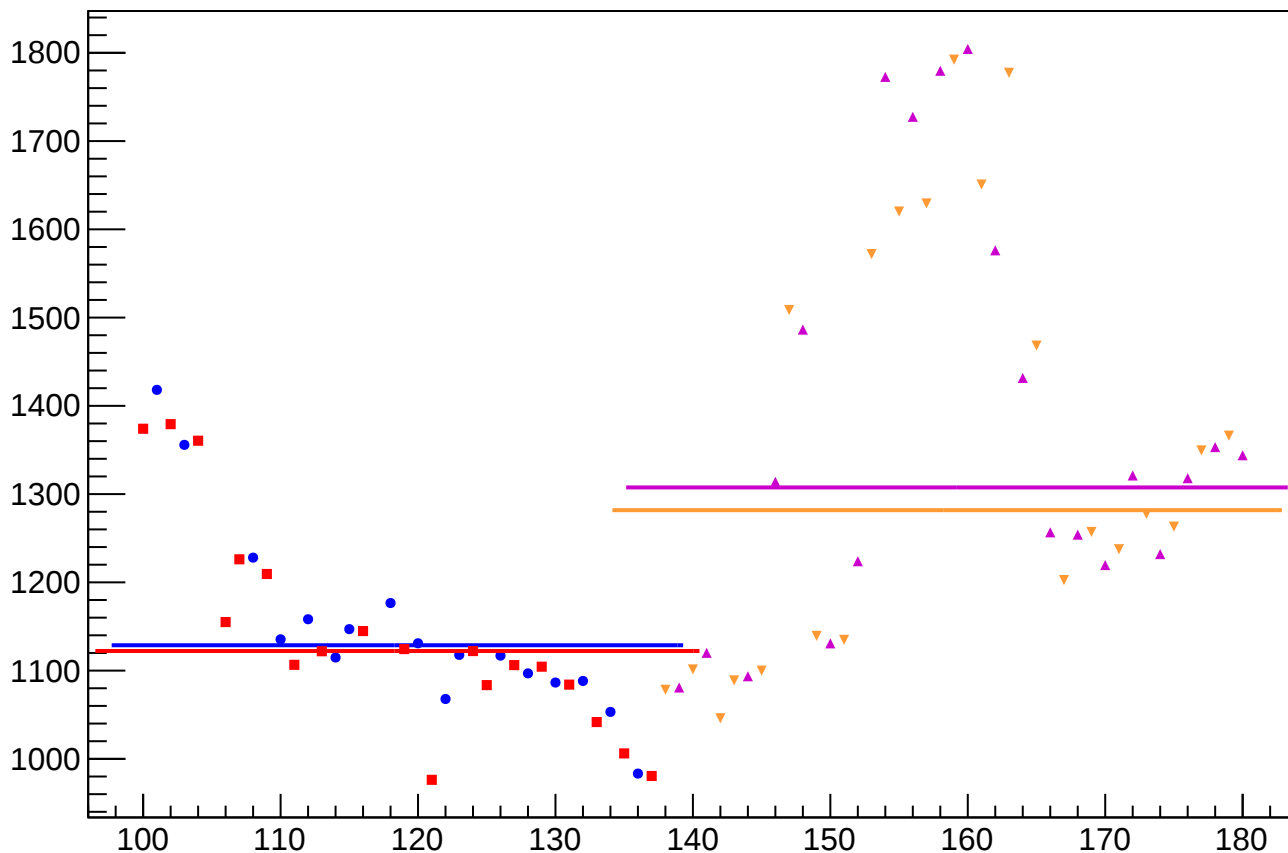
Right: -5.263 $\pm$ 0.303 χ^2/NDF : 640.0/35

In: -1.068 $\pm$ 0.263 χ^2/NDF :533.2/37

Out: -1.121 $\pm$ 0.255 χ^2/NDF :457.6/40

All: -1.095 $\pm$ 0.183 χ^2/NDF : 990.8/78

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1281.805 $\pm$ 0.226 χ^2 /NDF: 862857.1/21

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

Left In: 1307.559 $\pm$ 0.233 χ^2 /NDF: 757854.9/20

Left: 1294.332 $\pm$ 0.162 χ^2 /NDF: 1627009.7/42

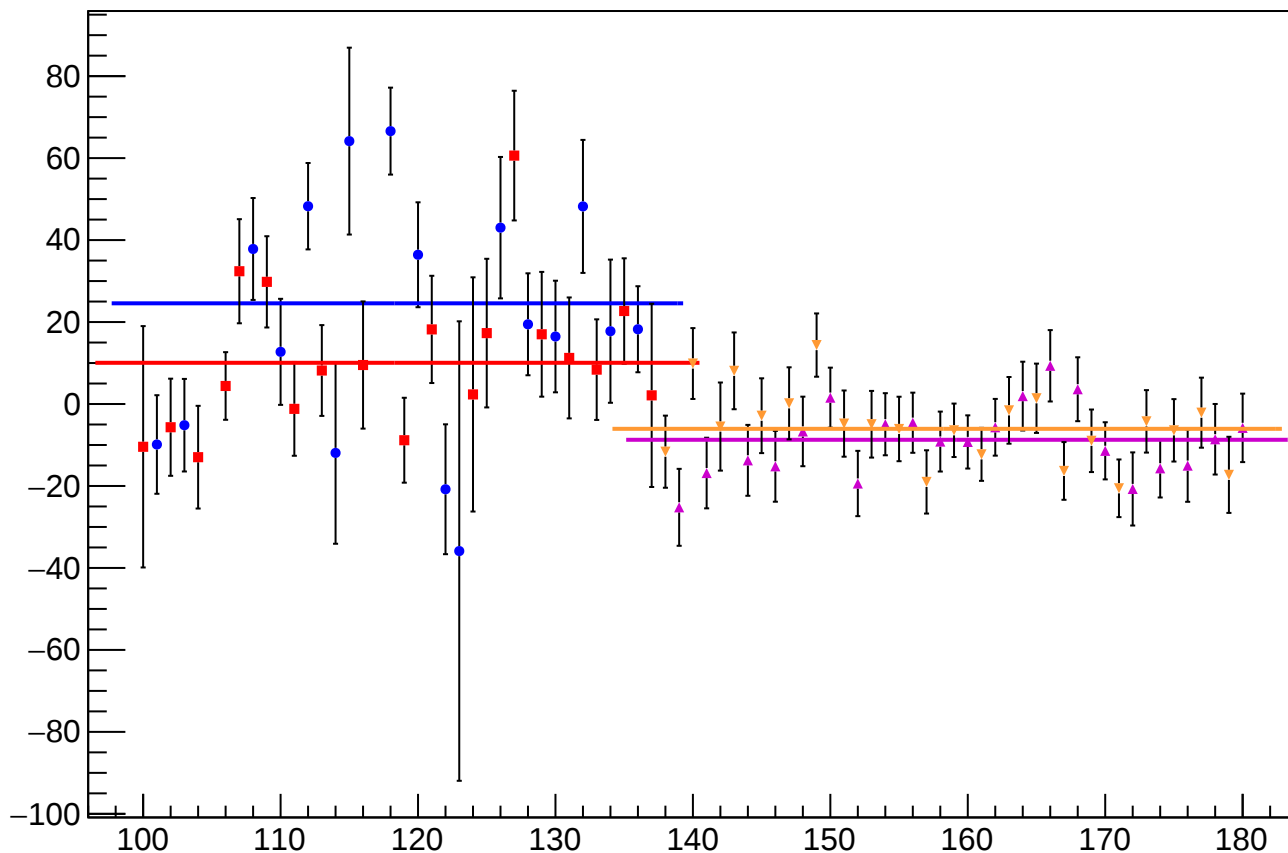
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

In: 1242.863 $\pm$ 0.186 χ^2 /NDF: 1104832.4/37

Out: 1223.466 $\pm$ 0.180 χ^2 /NDF: 1174162.1/40

All: 1232.872 $\pm$ 0.129 χ^2 /NDF: 2284608.4/78

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 $\pm$ 3.318 χ^2 /NDF: 58.1/16

Left Out: -6.053 $\pm$ 1.702 χ^2 /NDF:26.9/21

Right Out: 10.057 $\pm$ 3.008 χ^2 /NDF: 28.8/18

Left In: -8.729 $\pm$ 1.724 χ^2 /NDF:21.4/20

Left: -7.374 $\pm$ 1.211 χ^2 /NDF: 49.5/42

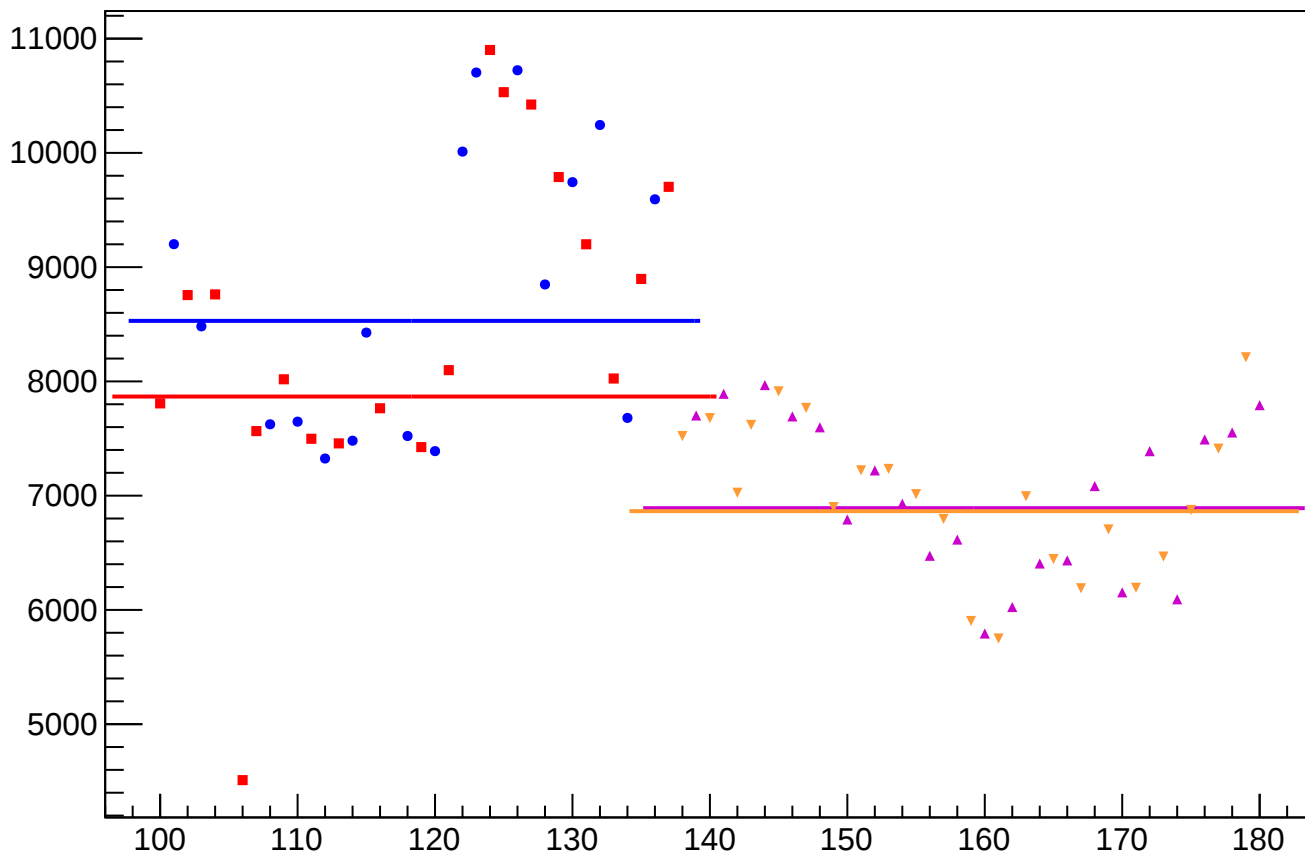
Right: 16.602 $\pm$ 2.229 χ^2 /NDF: 97.4/35

In: -1.653 $\pm$ 1.530 χ^2 /NDF:158.8/37

Out: -2.146 $\pm$ 1.481 χ^2 /NDF:77.4/40

All: -1.907 $\pm$ 1.064 χ^2 /NDF: 236.3/78

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6864.400 $\pm$ 1.203 χ^2 /NDF: 300215.8/21

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

Left In: 6890.496 $\pm$ 1.219 χ^2 /NDF: 317137.0/20

Left: 6877.280 $\pm$ 0.856 χ^2 /NDF: 617584.8/42

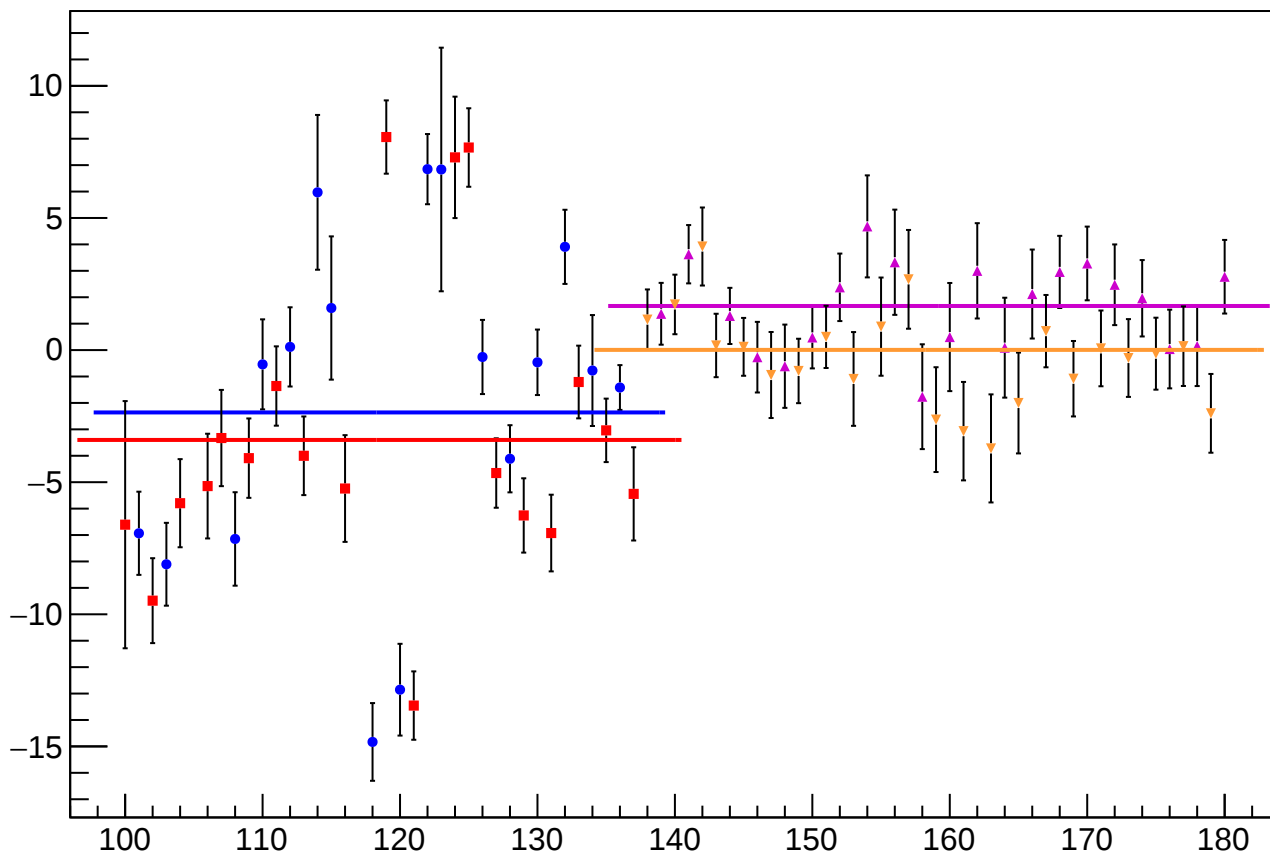
Right: 8166.253 $\pm$ 1.576 χ^2 /NDF: 807907.7/35

In: 7238.872 $\pm$ 1.082 χ^2 /NDF: 909847.8/37

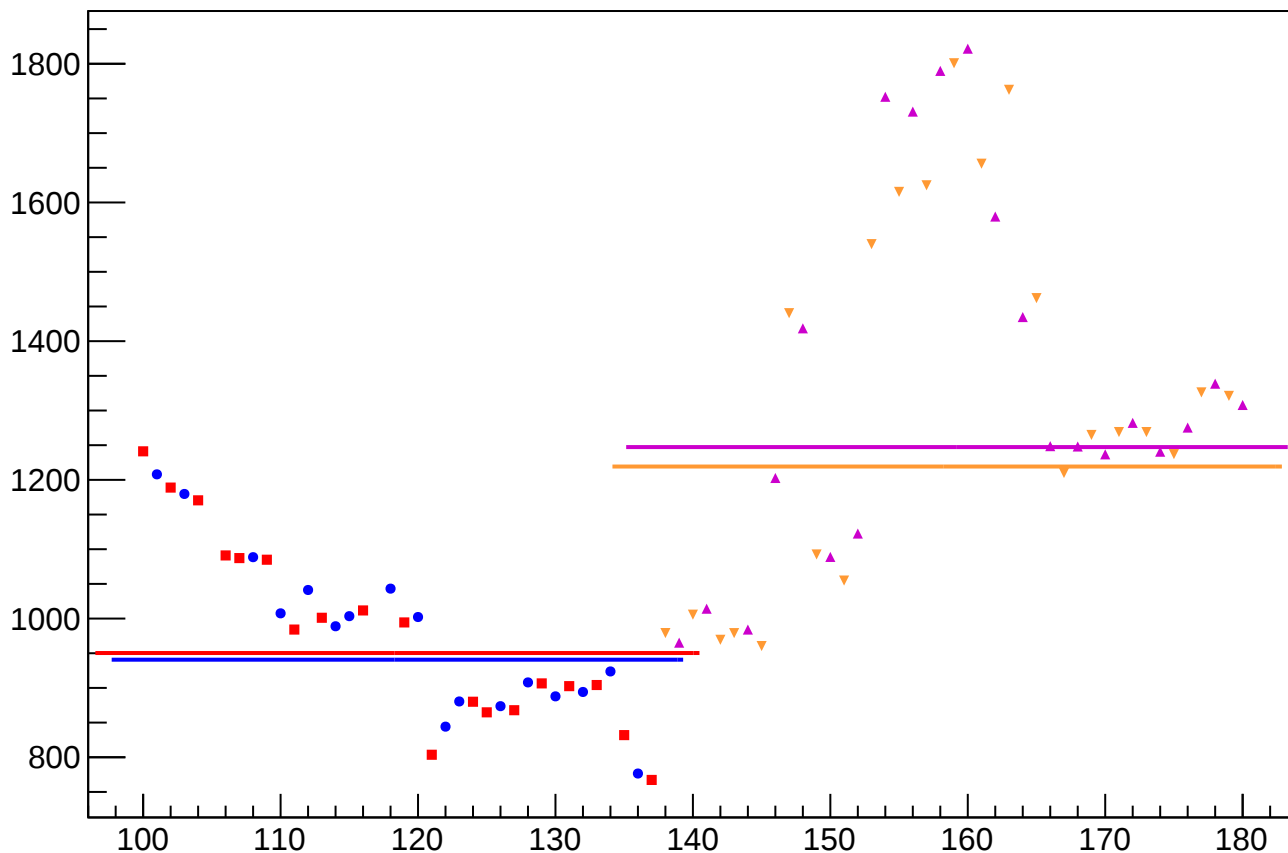
Out: 7107.695 $\pm$ 1.047 χ^2 /NDF: 1024599.3/40

All: 7171.168 $\pm$ 0.752 χ^2 /NDF: 1942037.6/78

diff_bpm0l10Y_mean vs Slug, Sign Corrected



diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683 $\pm$ 0.258 χ^2 /NDF: 241768.4/16

Left Out: 1219.228 $\pm$ 0.217 χ^2 /NDF:1239173.3/21

Right Out: 950.316 $\pm$ 0.253 χ^2 /NDF: 220678.1/18

Left In: 1247.281 $\pm$ 0.223 χ^2 /NDF:1072198.0/20

Left: 1232.841 $\pm$ 0.155 χ^2 /NDF: 2319515.9/42

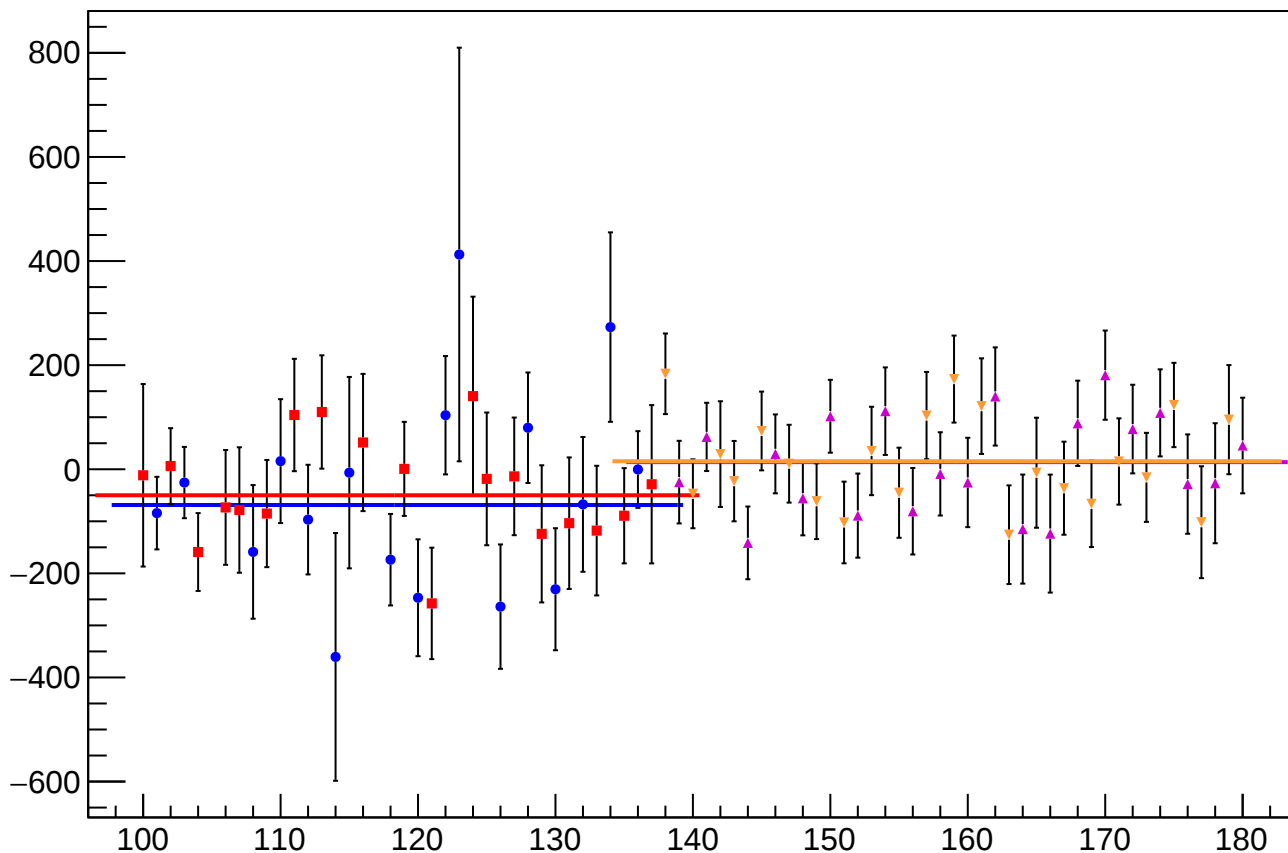
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1116.447 $\pm$ 0.169 χ^2 /NDF:2120530.7/37

Out: 1105.678 $\pm$ 0.165 χ^2 /NDF:2111094.6/40

All: 1110.925 $\pm$ 0.118 χ^2 /NDF: 4233711.2/78

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 15.392 ± 17.893 χ^2/NDF : 23.6/21

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 13.700 ± 18.096 χ^2/NDF : 24.5/20

Left: 14.555 ± 12.723 χ^2/NDF : 48.1/42

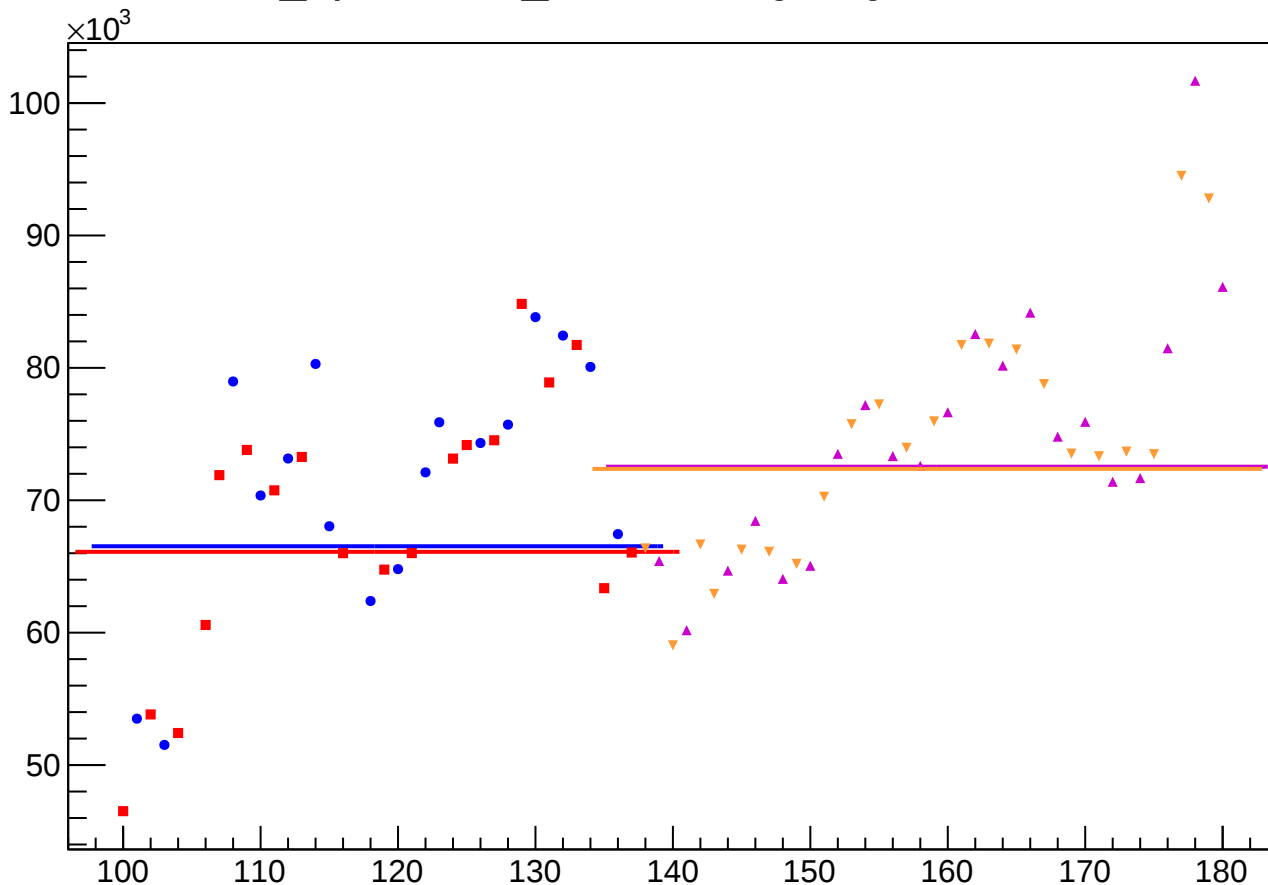
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -13.262 ± 14.843 χ^2/NDF : 53.1/37

Out: -6.721 ± 14.554 χ^2/NDF : 42.1/40

All: -9.928 ± 10.392 χ^2/NDF : 95.3/78

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347 χ^2/NDF : 320887.2/16

Left Out: 72368.945+/-12.652 χ^2/NDF : 418801.9/21

Right Out: 66105.849+/-17.692 χ^2/NDF : 298485.4/18

Left In: 72536.423+/-12.796 χ^2/NDF : 429150.0/20

Left: 72451.739+/-8.997 χ^2/NDF : 848038.5/42

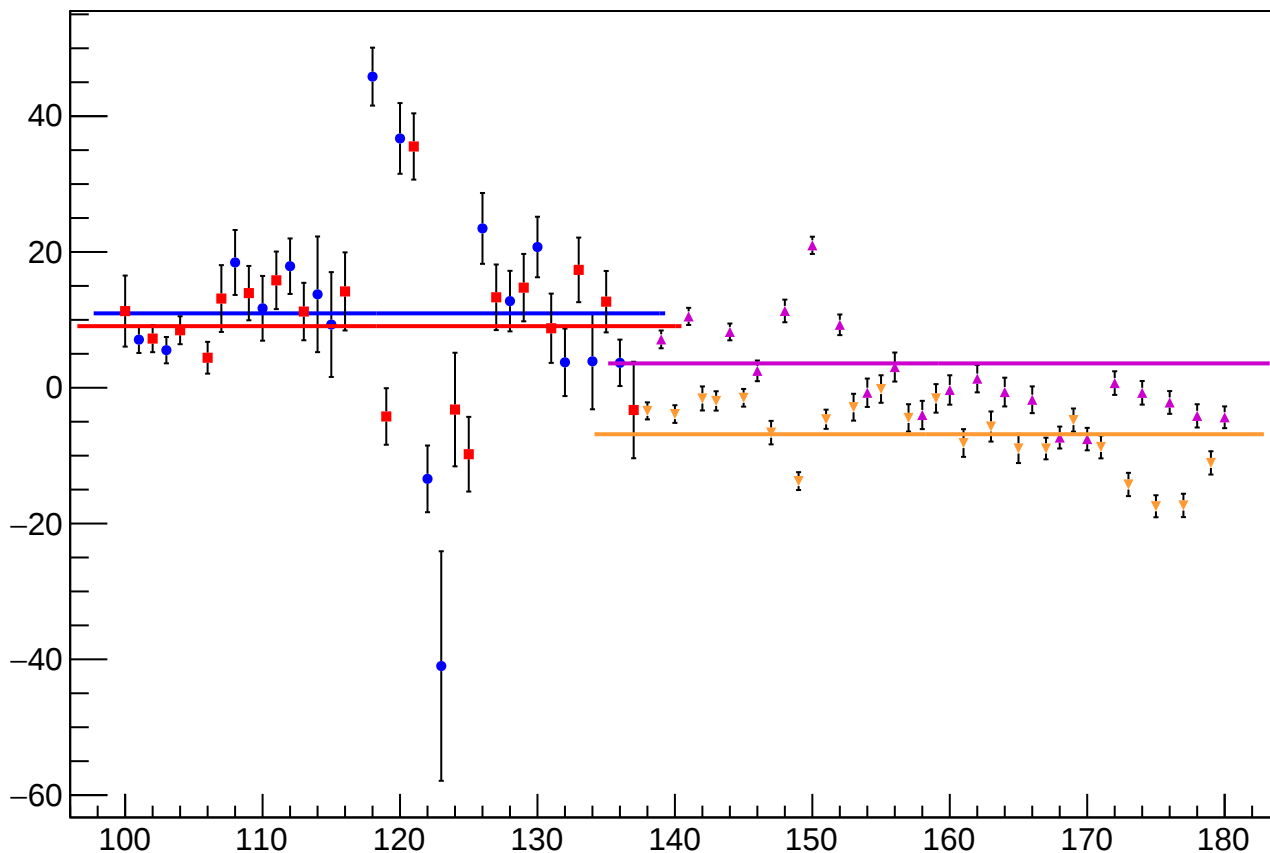
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 70569.891+/-10.495 χ^2/NDF : 822209.6/37

Out: 70249.605+/-10.291 χ^2/NDF : 800206.1/40

All: 70406.604+/-7.348 χ^2/NDF : 1622890.5/71

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 $\pm$ 0.943 χ^2 /NDF: 160.9/16

Left Out: -6.844 $\pm$ 0.350 χ^2 /NDF:213.6/21

Right Out: 9.072 $\pm$ 0.866 χ^2 /NDF: 73.1/18

Left In: 3.589 $\pm$ 0.358 χ^2 /NDF:465.0/20

Left: -1.737 $\pm$ 0.250 χ^2 /NDF: 1113.1/42

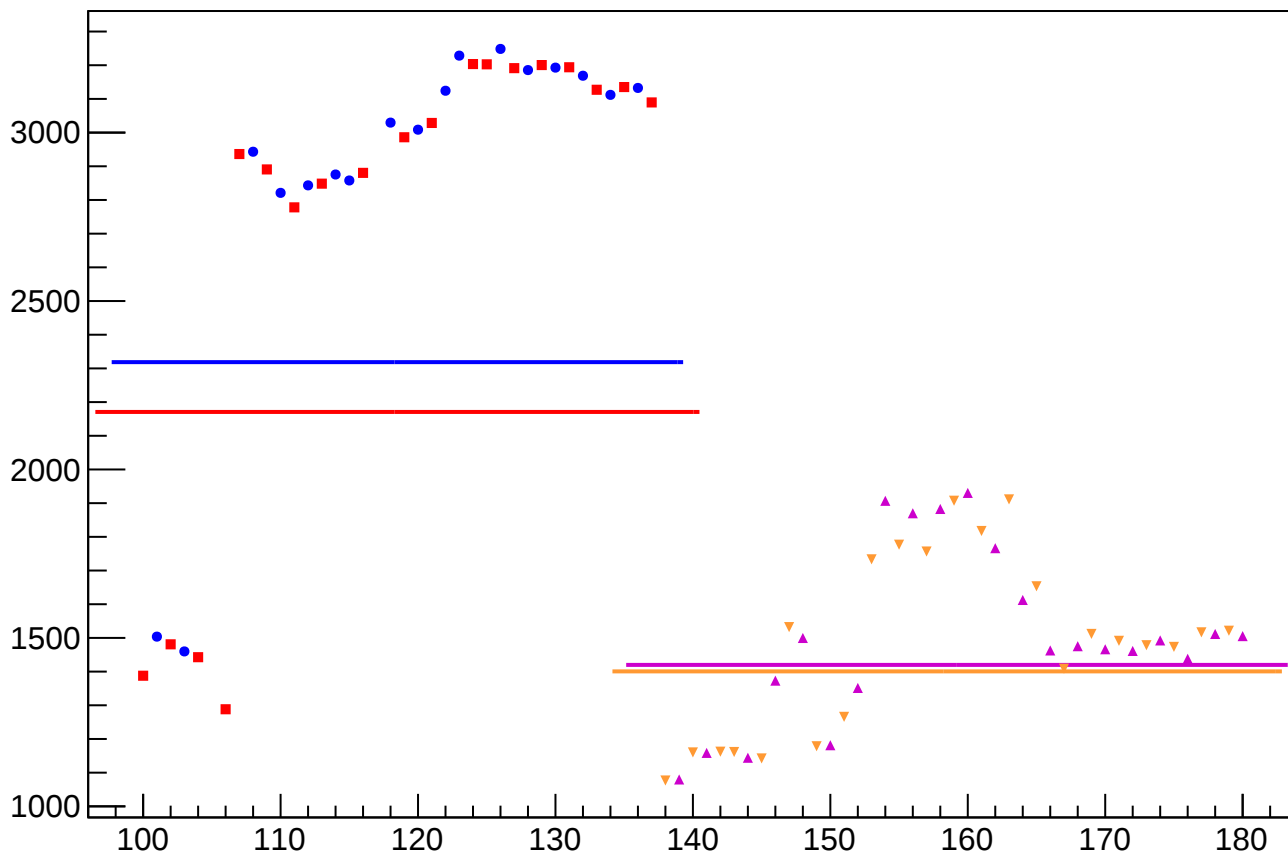
Right: 9.935 $\pm$ 0.638 χ^2 /NDF: 236.2/35

In: 4.515 $\pm$ 0.334 χ^2 /NDF:679.3/37

Out: -4.609 $\pm$ 0.325 χ^2 /NDF:576.8/40

All: -0.182 $\pm$ 0.233 χ^2 /NDF: 1639.4/78

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 +/- 0.667 χ^2/NDF : 1408300.4/16

Left Out: 1400.618 +/- 0.248 χ^2/NDF : 1022654.1/21

Right Out: 2170.786 +/- 0.613 χ^2/NDF : 1753687.8/18

Left In: 1419.890 +/- 0.253 χ^2/NDF : 904883.4/20

Left: 1410.053 +/- 0.177 χ^2/NDF : 1930503.2/42

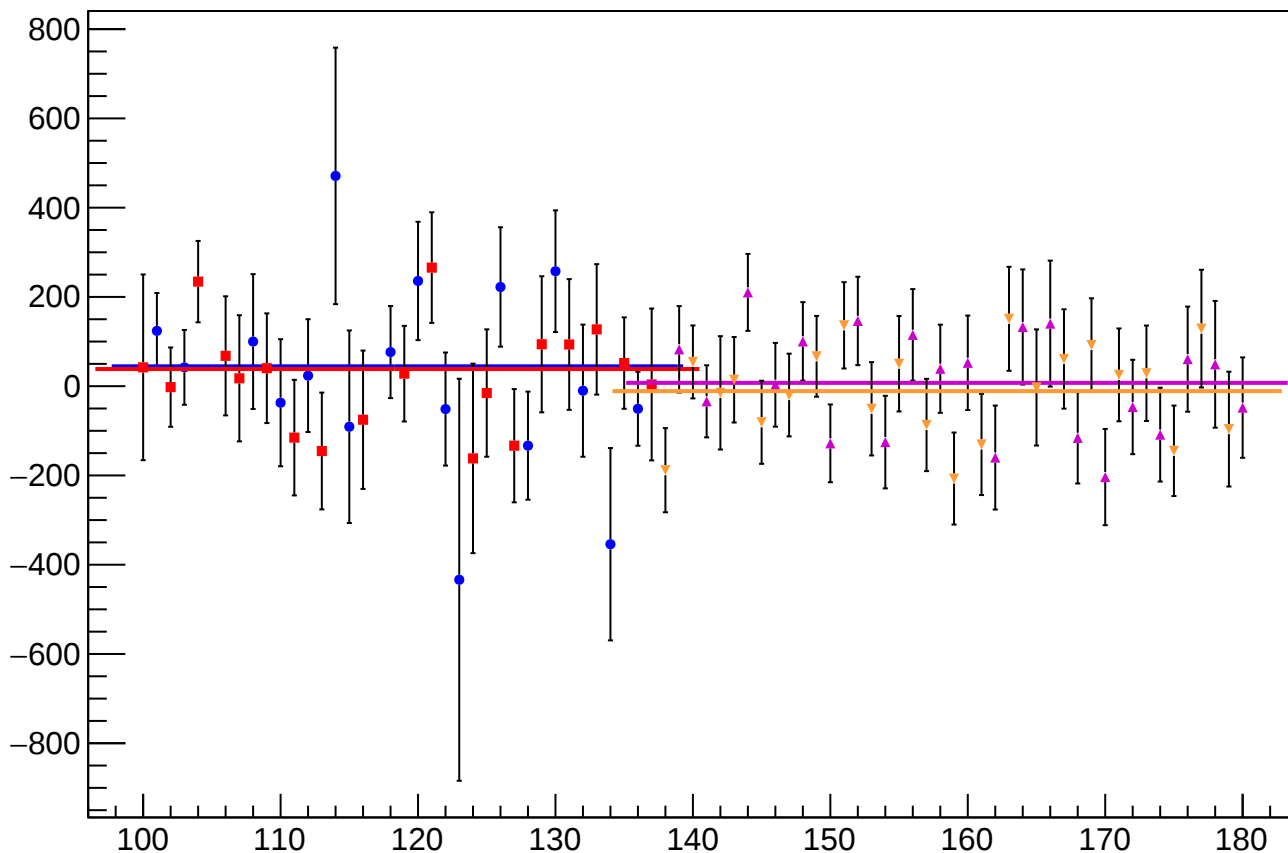
Right: 2238.439 +/- 0.451 χ^2/NDF : 3188639.4/35

In: 1532.823 +/- 0.236 χ^2/NDF : 3900933.3/37

Out: 1508.764 +/- 0.230 χ^2/NDF : 4134997.1/40

All: 1520.439 +/- 0.165 χ^2/NDF : 8041261.1/78

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2 /NDF: 19.1/16

Left Out: -11.074 $\pm$ 22.150 χ^2 /NDF:20.5/21

Right Out: 38.425 $\pm$ 29.435 χ^2 /NDF: 15.7/18

Left In: 7.467 $\pm$ 22.378 χ^2 /NDF:26.1/20

Left: -1.898 $\pm$ 15.742 χ^2 /NDF: 47.0/42

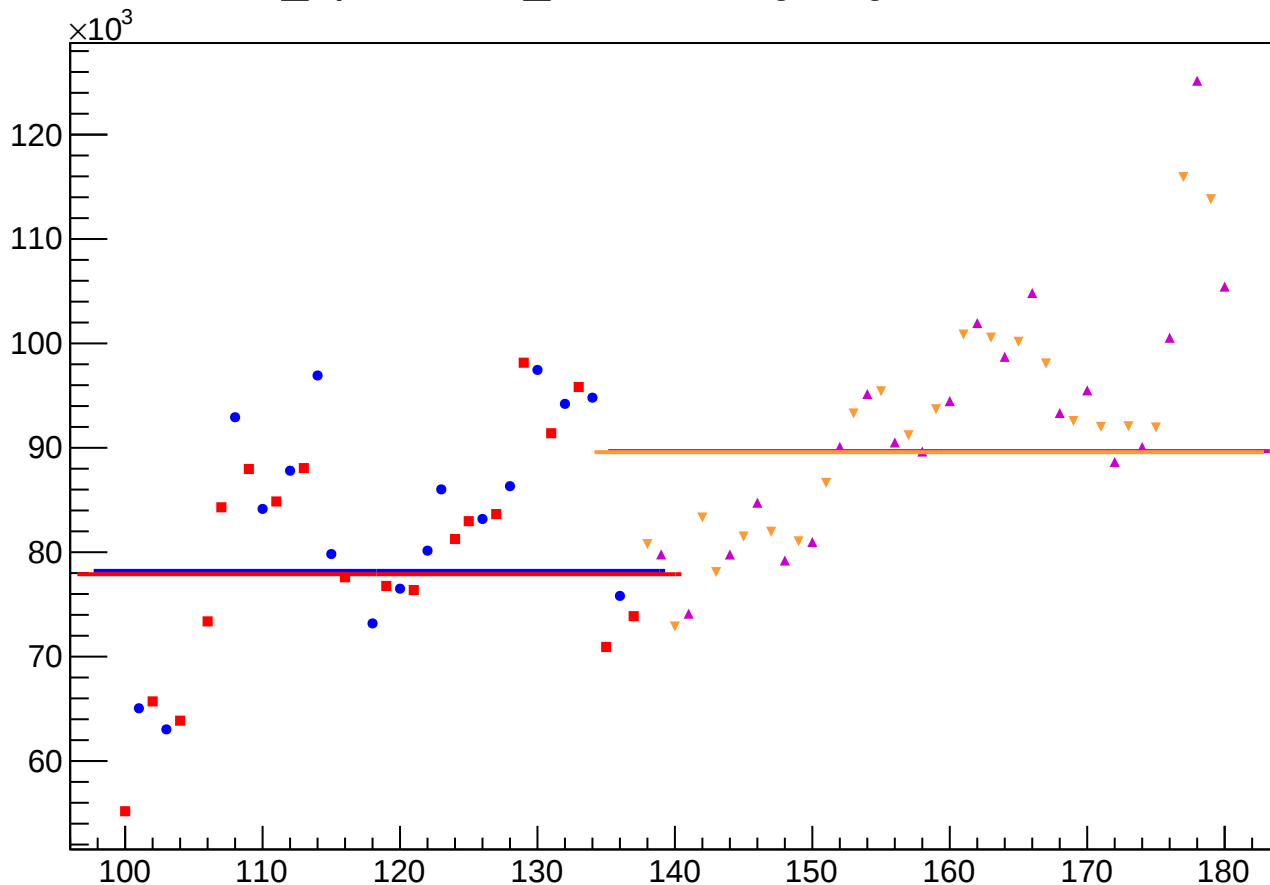
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 20.459 $\pm$ 18.028 χ^2 /NDF:46.1/37

Out: 6.822 $\pm$ 17.699 χ^2 /NDF:38.1/40

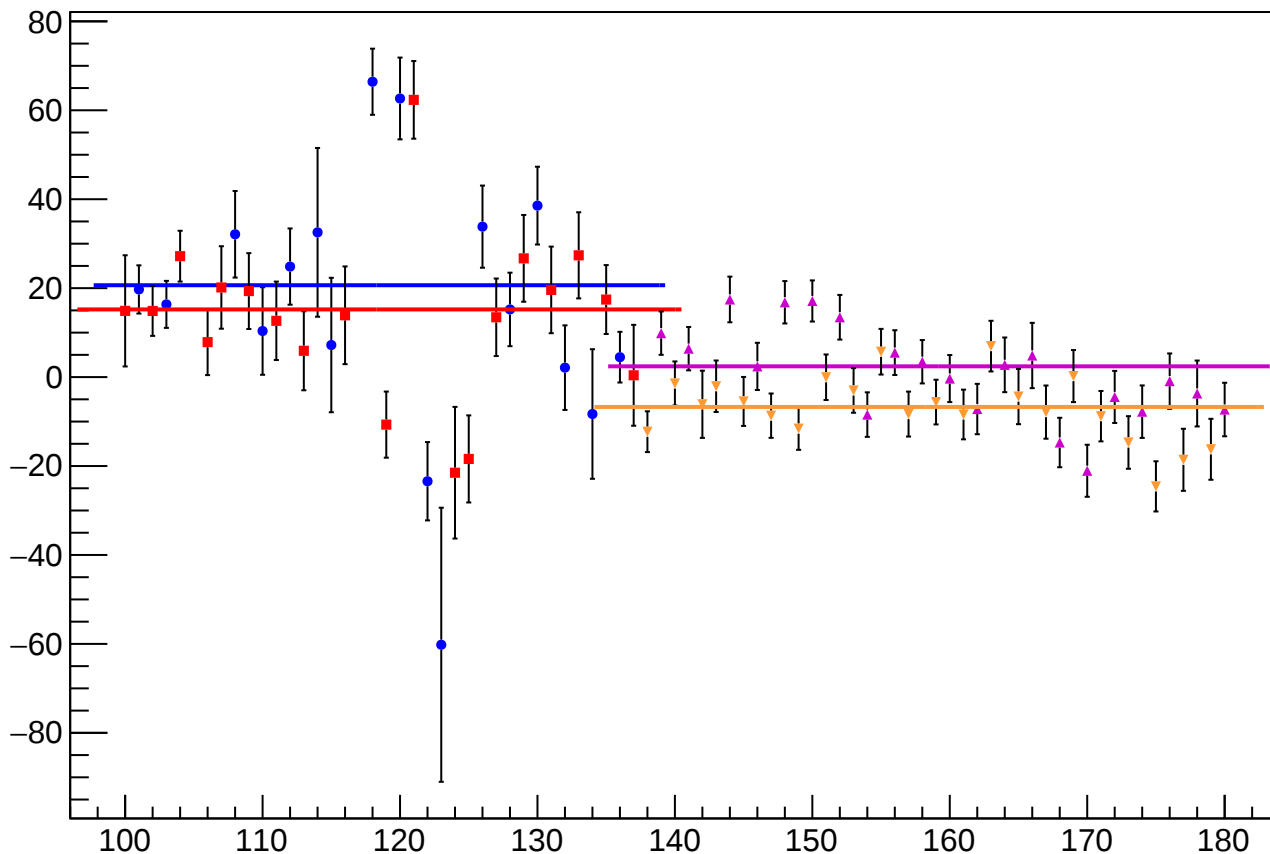
All: 13.515 $\pm$ 12.630 χ^2 /NDF: 84.5/78

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519	χ^2/NDF : 251056.7/16	Left: 89635.171+/-11.132	χ^2/NDF : 843042.1/42
Left Out: 89582.818+/-15.662	χ^2/NDF : 412984.6/21	Right: 78047.137+/-14.960	χ^2/NDF : 498141.9/35
Right Out: 77891.938+/-20.814	χ^2/NDF : 246970.2/18	In: 85661.091+/-12.748	χ^2/NDF : 865675.5/37
Left In: 89688.608+/-15.824	χ^2/NDF : 430034.9/20	Out: 85356.099+/-12.515	χ^2/NDF : 861387.5/40
		All: 85505.781+/-8.931	χ^2/NDF : 1727354.4/7

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2 /NDF: 117.7/16

Left Out: -6.714 $\pm$ 1.173 χ^2 /NDF:37.0/21

Right Out: 15.216 $\pm$ 1.955 χ^2 /NDF: 71.3/18

Left In: 2.421 $\pm$ 1.185 χ^2 /NDF:77.6/20

Left: -2.191 $\pm$ 0.834 χ^2 /NDF: 144.6/42

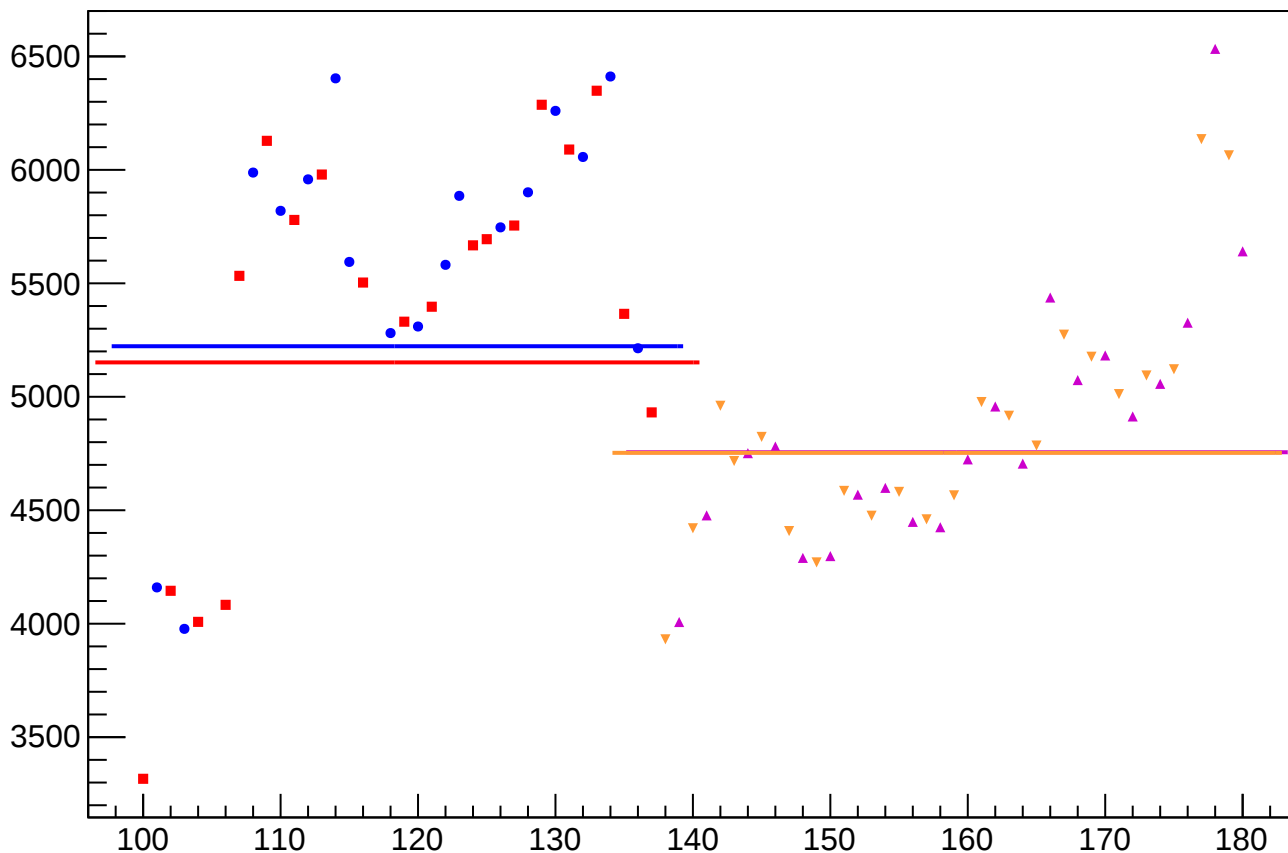
Right: 17.826 $\pm$ 1.410 χ^2 /NDF: 192.8/35

In: 7.035 $\pm$ 1.024 χ^2 /NDF:255.2/37

Out: -0.904 $\pm$ 1.006 χ^2 /NDF:200.8/40

All: 2.995 $\pm$ 0.718 χ^2 /NDF: 486.7/78

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 $\pm$ 1.440 χ^2 /NDF: 312497.9/16

Left Out: 4753.020 $\pm$ 0.830 χ^2 /NDF:326704.1/21

Right Out: 5151.532 $\pm$ 1.382 χ^2 /NDF: 387685.6/18

Left In: 4755.612 $\pm$ 0.838 χ^2 /NDF:332799.1/20

Left: 4754.303 $\pm$ 0.590 χ^2 /NDF: 659508.0/42

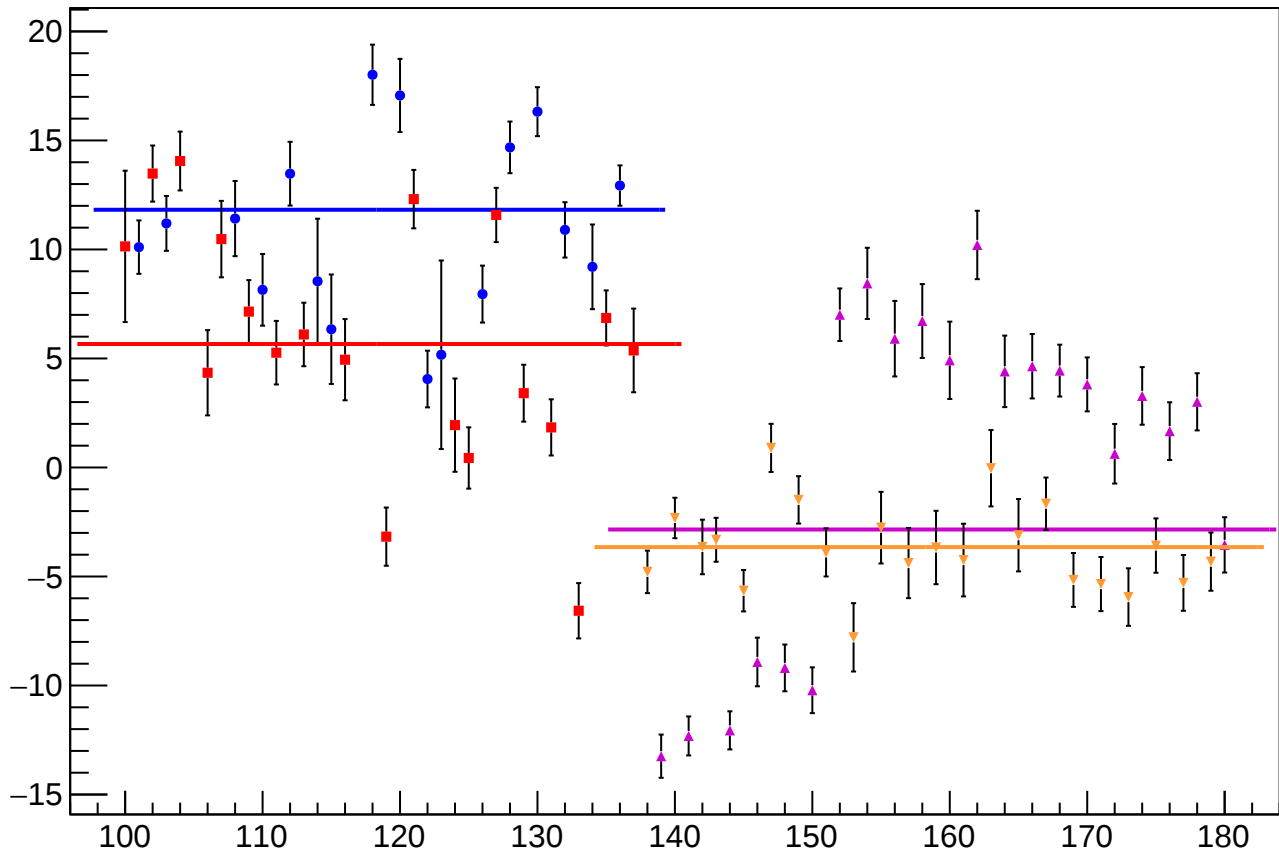
Right: 5185.701 $\pm$ 0.997 χ^2 /NDF: 701457.6/35

In: 4873.814 $\pm$ 0.724 χ^2 /NDF:723957.2/37

Out: 4858.597 $\pm$ 0.711 χ^2 /NDF:775494.8/40

All: 4866.071 $\pm$ 0.507 χ^2 /NDF: 1499676.7/78

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.651 ± 0.264 $\chi^2/\text{NDF}: 52.0/21$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -2.845 ± 0.270 $\chi^2/\text{NDF}: 879.4/20$

Left: -3.258 ± 0.189 $\chi^2/\text{NDF}: 936.0/42$

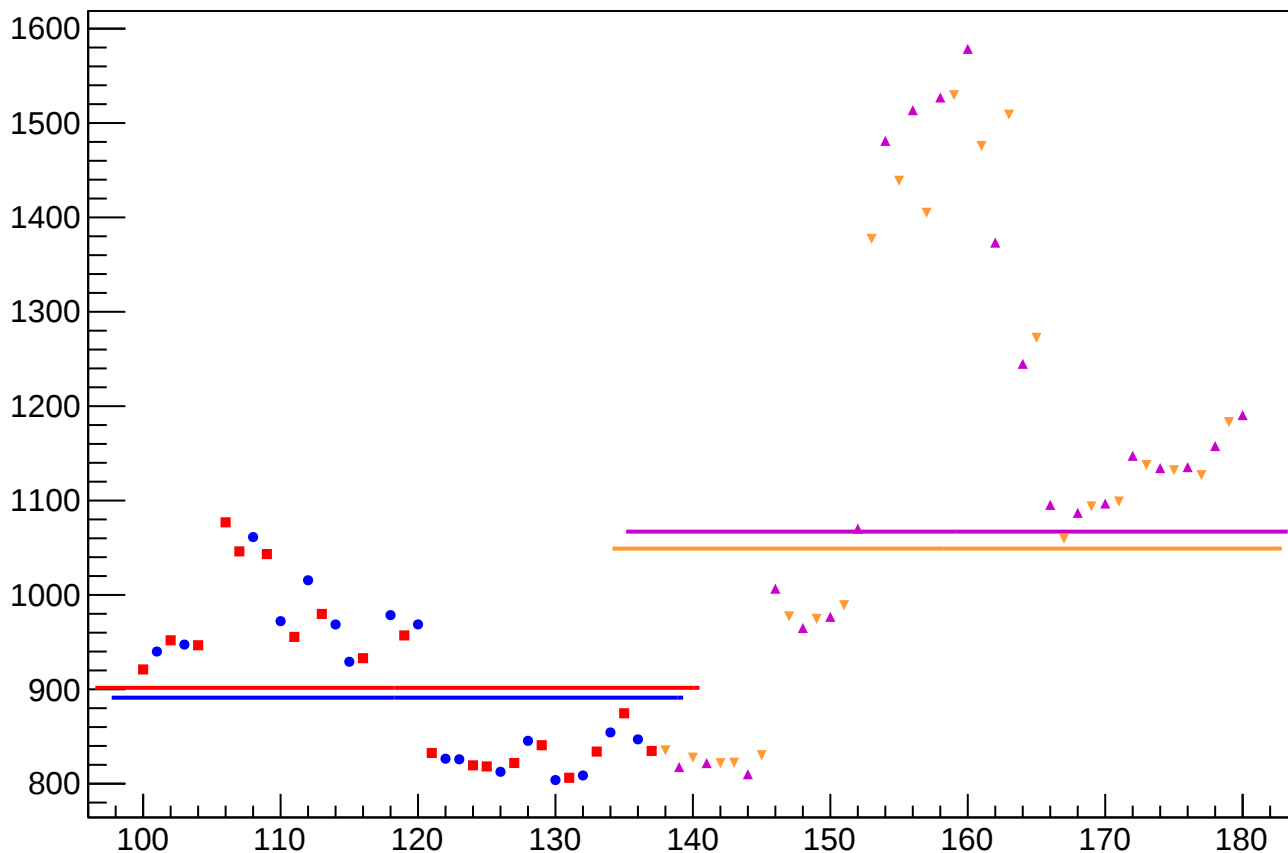
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.740 ± 0.213 $\chi^2/\text{NDF}: 2118.6/37$

Out: -0.135 ± 0.208 $\chi^2/\text{NDF}: 823.5/40$

All: 1.271 ± 0.149 $\chi^2/\text{NDF}: 3035.5/78$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149+/-0.244 χ^2/NDF : 101659.1/16

Left Out: 1049.103+/-0.186 χ^2/NDF :1325172.3/21

Right Out: 901.588+/-0.239 χ^2/NDF : 114590.8/18

Left In: 1067.082+/-0.191 χ^2/NDF :1212621.5/20

Left: 1057.872+/-0.133 χ^2/NDF : 2542332.0/42

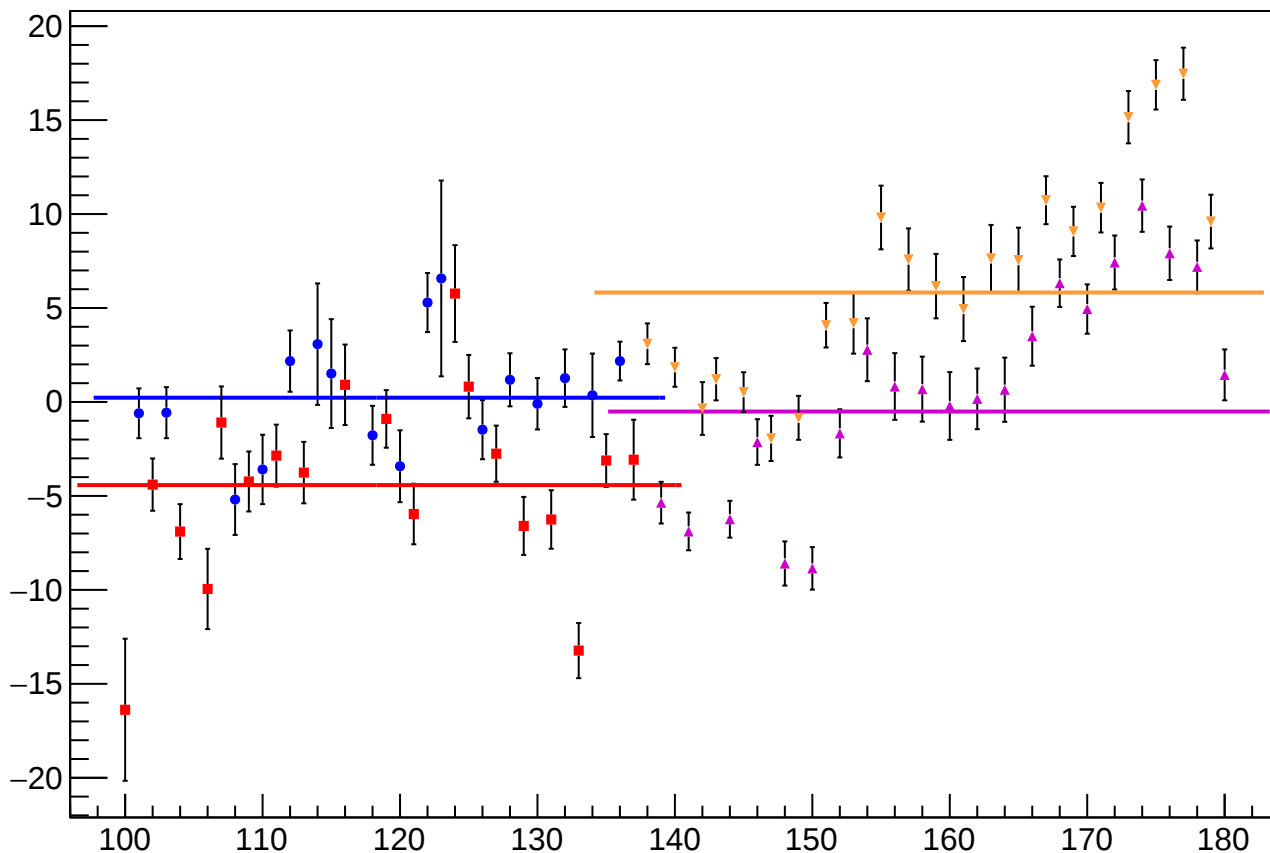
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 1000.090+/-0.150 χ^2/NDF :1637277.4/37

Out: 993.408+/-0.147 χ^2/NDF :1676230.8/40

All: 996.676+/-0.105 χ^2/NDF : 3314518.0/78

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 5.824 ± 0.284 χ^2/NDF : 394.1/21

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -0.510 ± 0.291 χ^2/NDF : 416.1/20

Left: 2.730 ± 0.203 χ^2/NDF : 1053.3/42

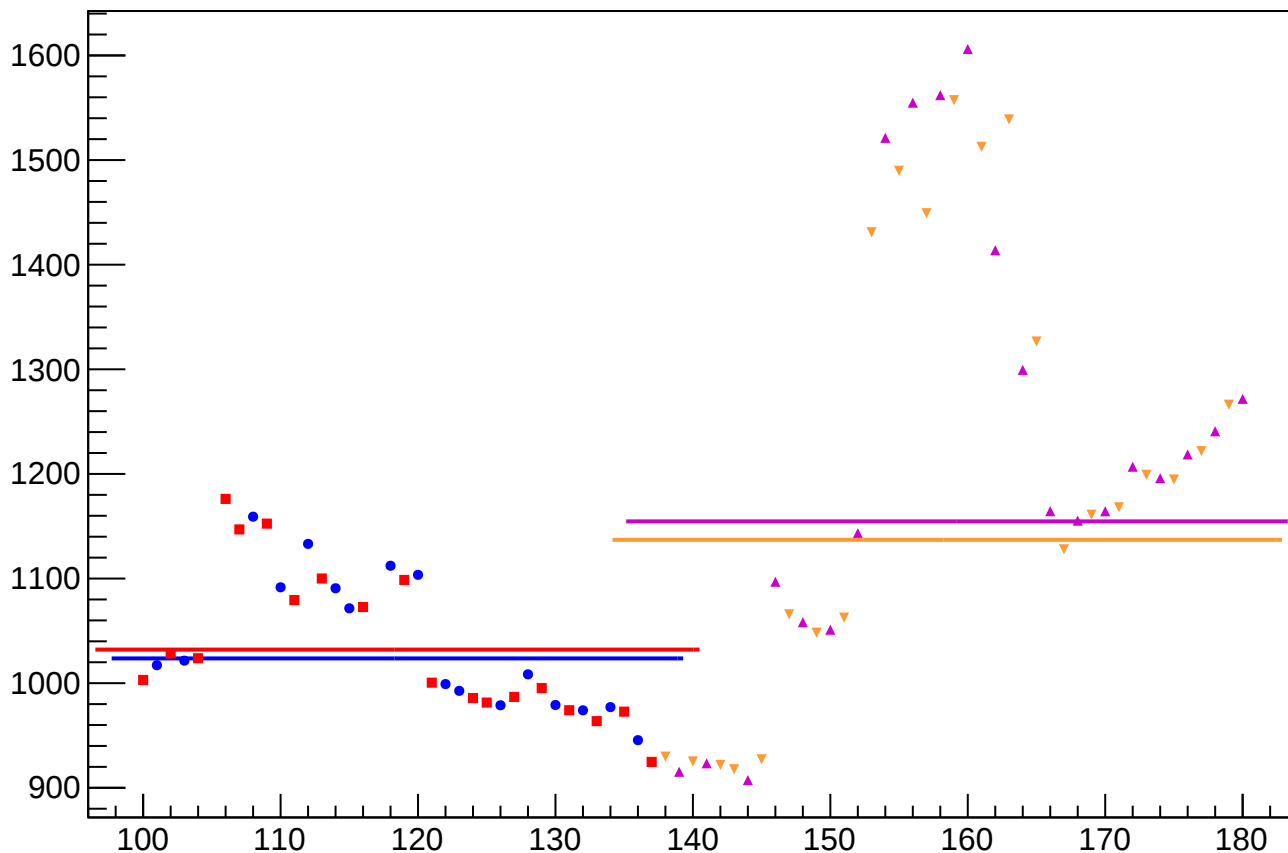
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -0.251 ± 0.234 χ^2/NDF : 456.9/37

Out: 2.235 ± 0.229 χ^2/NDF : 953.6/40

All: 1.020 ± 0.164 χ^2/NDF : 1468.2/78

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1137.029 $\pm$ 0.201 χ^2 /NDF:983763.6/21

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1154.651 $\pm$ 0.206 χ^2 /NDF:892653.5/20

Left: 1145.636 $\pm$ 0.144 χ^2 /NDF: 1880178.9/42

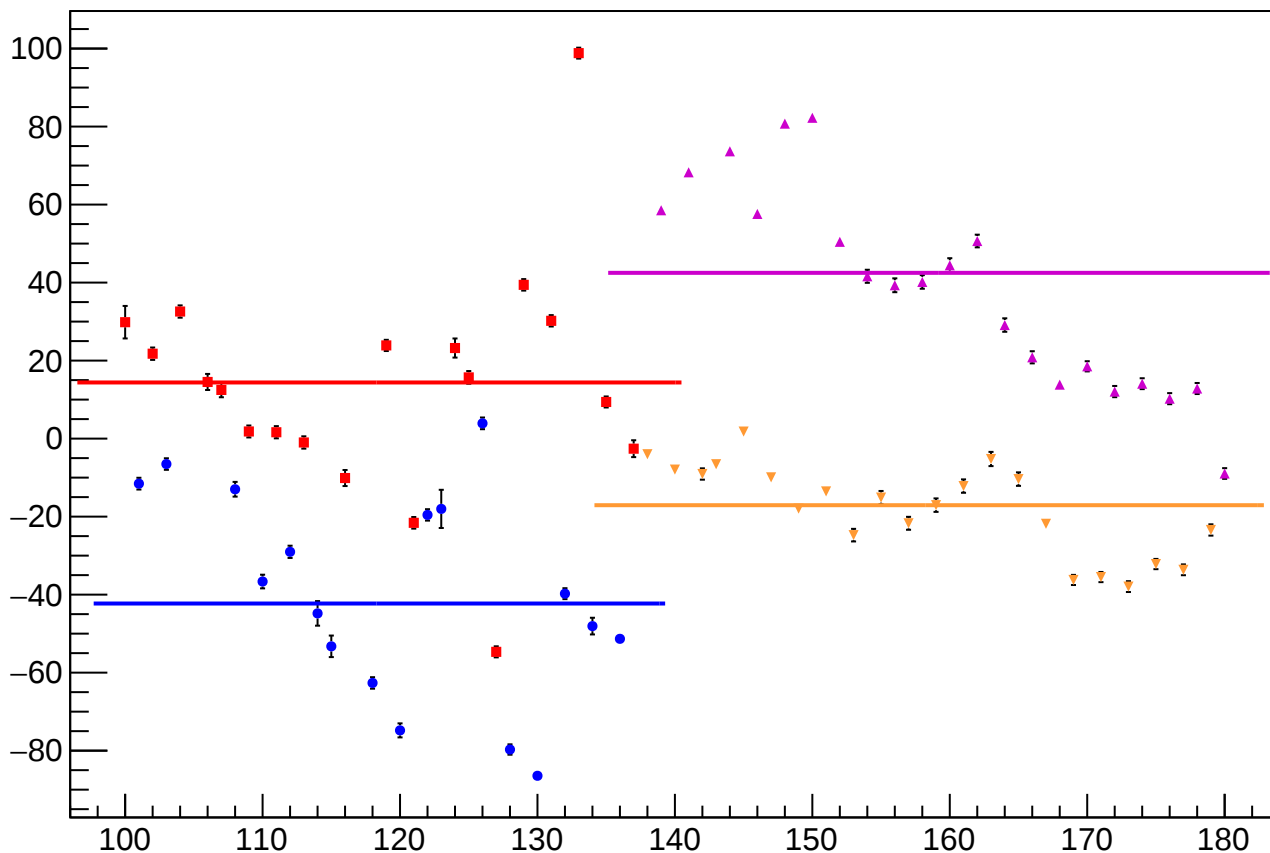
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1108.642 $\pm$ 0.166 χ^2 /NDF:1087745.6/37

Out: 1100.272 $\pm$ 0.162 χ^2 /NDF:1138801.8/40

All: 1104.363 $\pm$ 0.116 χ^2 /NDF: 2227854.6/78

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 $\chi^2/\text{NDF}: 5126.8/16$

Left Out: -17.072 ± 0.288 $\chi^2/\text{NDF}: 1714.2/21$

Right Out: 14.393 ± 0.378 $\chi^2/\text{NDF}: 7669.8/18$

Left In: 42.499 ± 0.296 $\chi^2/\text{NDF}: 8272.3/20$

Left: 11.922 ± 0.206 $\chi^2/\text{NDF}: 30795.9/42$

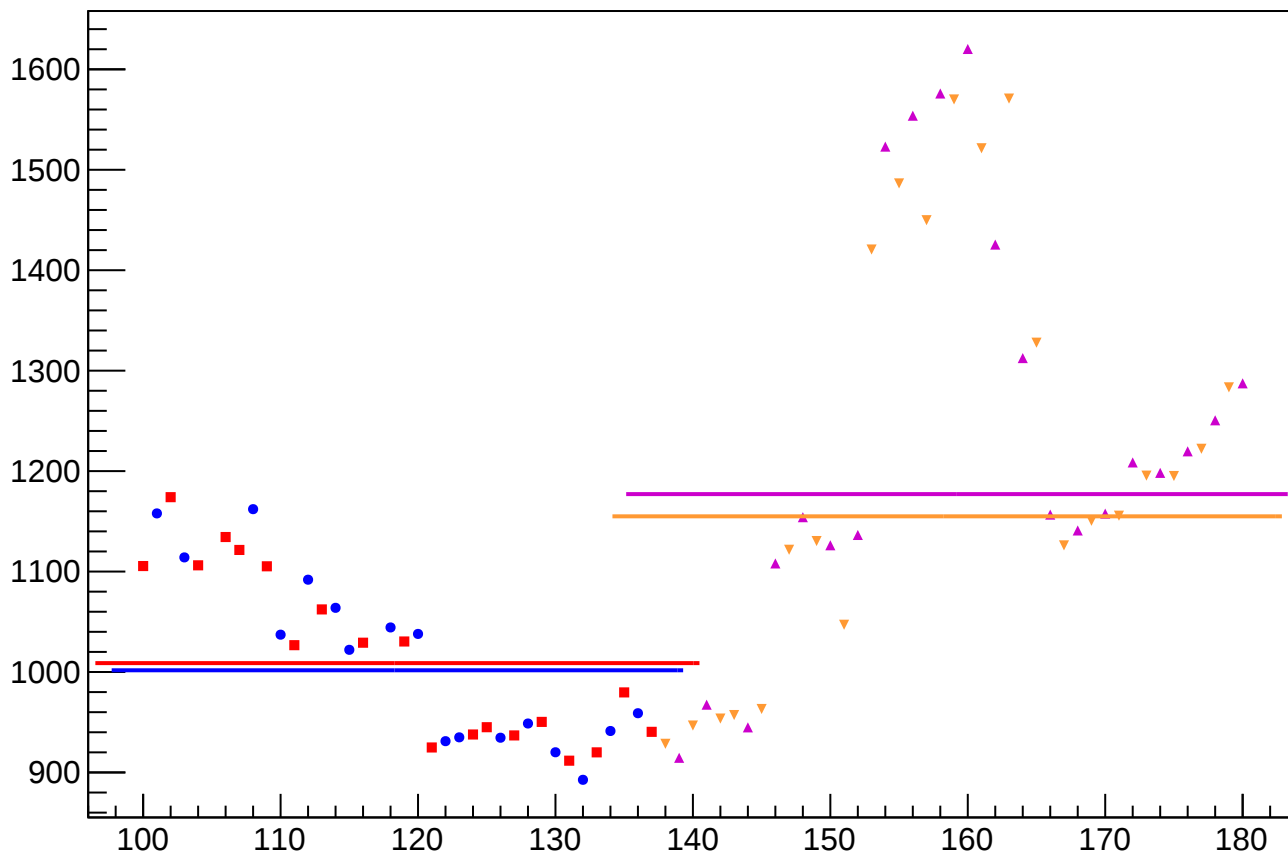
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 11.240 ± 0.235 $\chi^2/\text{NDF}: 43674.0/37$

Out: -5.528 ± 0.229 $\chi^2/\text{NDF}: 13760.2/40$

All: 2.645 ± 0.164 $\chi^2/\text{NDF}: 60042.2/78$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1154.981 $\pm$ 0.204 χ^2 /NDF: 889563.6/21

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1177.109 $\pm$ 0.209 χ^2 /NDF: 788835.9/20

Left: 1165.751 $\pm$ 0.146 χ^2 /NDF: 1684142.1/42

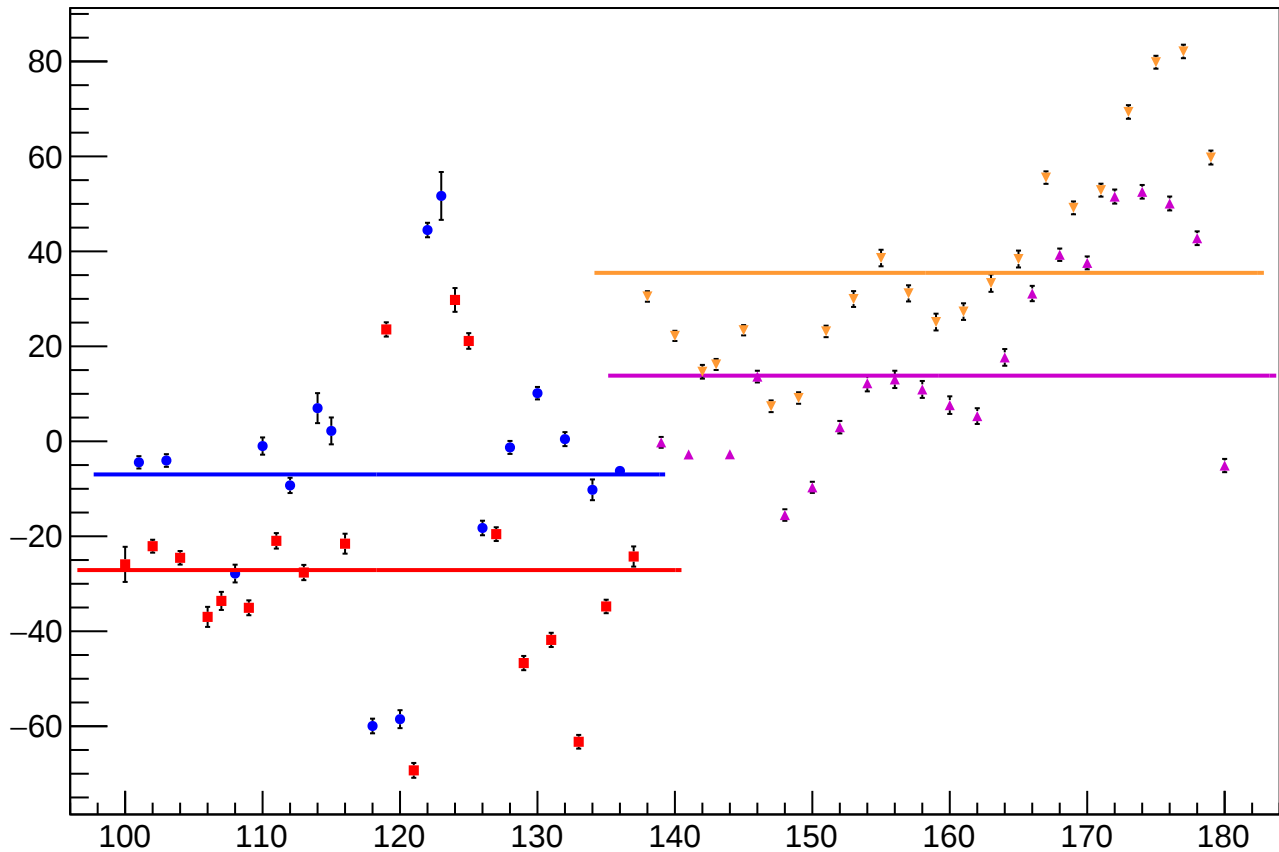
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1112.434 $\pm$ 0.166 χ^2 /NDF: 1143509.1/37

Out: 1101.368 $\pm$ 0.162 χ^2 /NDF: 1173701.6/40

All: 1106.762 $\pm$ 0.116 χ^2 /NDF: 2319482.5/78

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 $\pm$ 0.388 χ^2 /NDF: 3636.9/16

Left Out: 35.478 $\pm$ 0.292 χ^2 /NDF:5409.1/21

Right Out: -27.116 $\pm$ 0.380 χ^2 /NDF: 4283.5/18

Left In: 13.830 $\pm$ 0.299 χ^2 /NDF:5143.6/20

Left: 24.909 $\pm$ 0.209 χ^2 /NDF: 13227.1/42

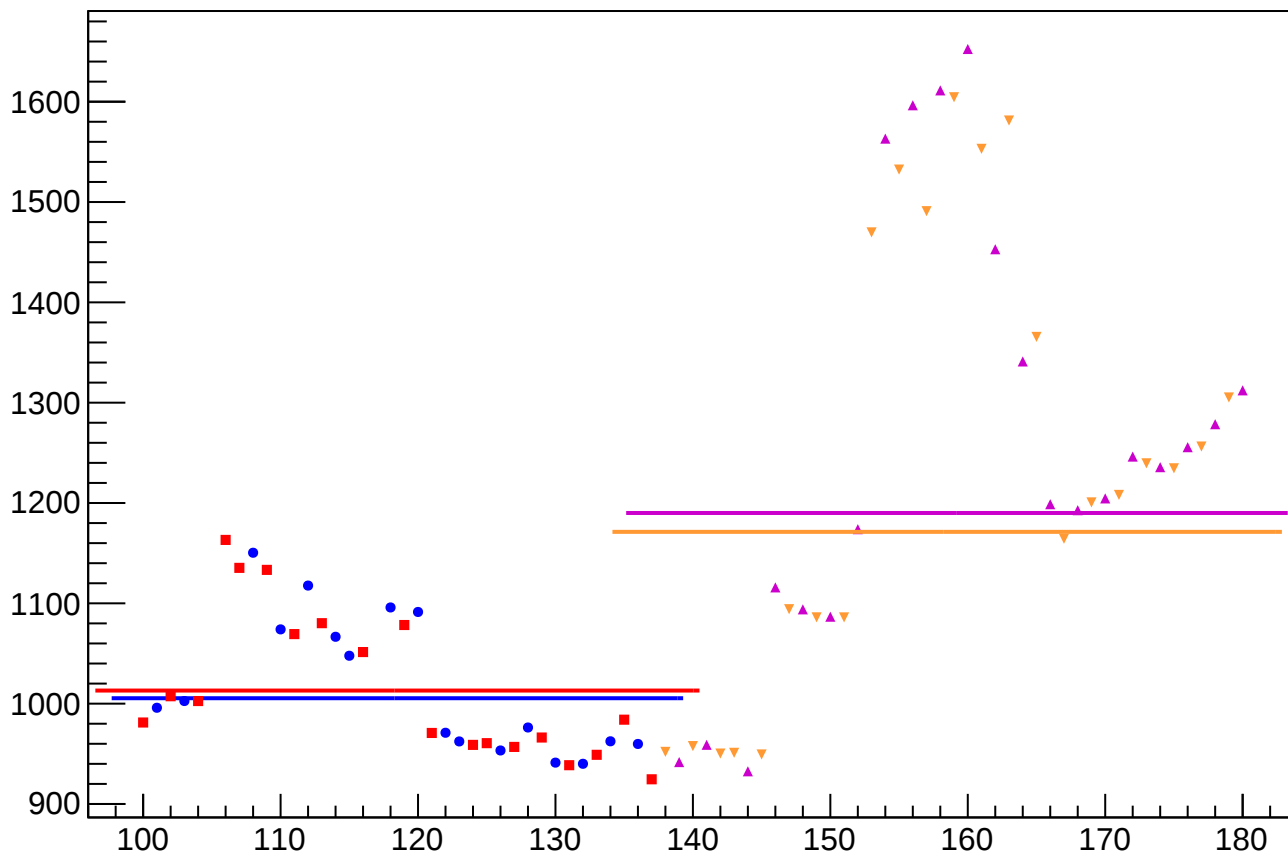
Right: -17.264 $\pm$ 0.271 χ^2 /NDF: 9297.5/35

In: 6.062 $\pm$ 0.237 χ^2 /NDF:10582.4/37

Out: 12.159 $\pm$ 0.232 χ^2 /NDF:26753.9/40

All: 9.181 $\pm$ 0.166 χ^2 /NDF: 37674.7/78

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1171.245 $\pm$ 0.207 χ^2 /NDF:981245.8/21

Right Out: 1013.064 $\pm$ 0.268 χ^2 /NDF: 63265.7/18

Left In: 1190.053 $\pm$ 0.212 χ^2 /NDF:885941.2/20

Left: 1180.427 $\pm$ 0.148 χ^2 /NDF: 1871224.4/42

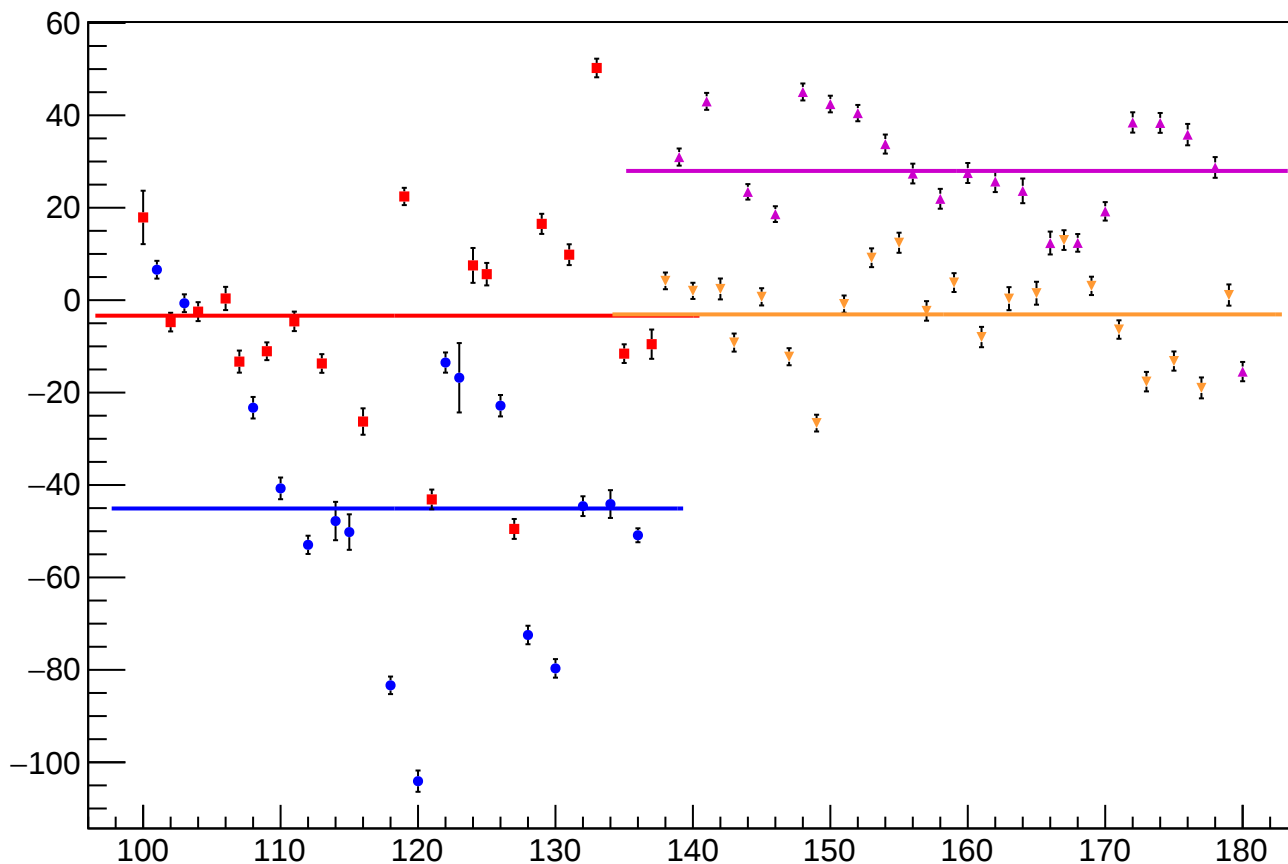
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1121.111 $\pm$ 0.168 χ^2 /NDF:1224411.4/37

Out: 1112.317 $\pm$ 0.164 χ^2 /NDF:1262431.2/40

All: 1116.613 $\pm$ 0.117 χ^2 /NDF: 2488250.4/78

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081±/0.540 χ^2/NDF : 3238.1/16

Left Out: -3.082±/0.435 χ^2/NDF :540.9/21

Right Out: -3.358±/0.522 χ^2/NDF : 2005.7/18

Left In: 27.965±/0.440 χ^2/NDF :943.8/20

Left: 12.259±/0.310 χ^2/NDF : 3999.3/42

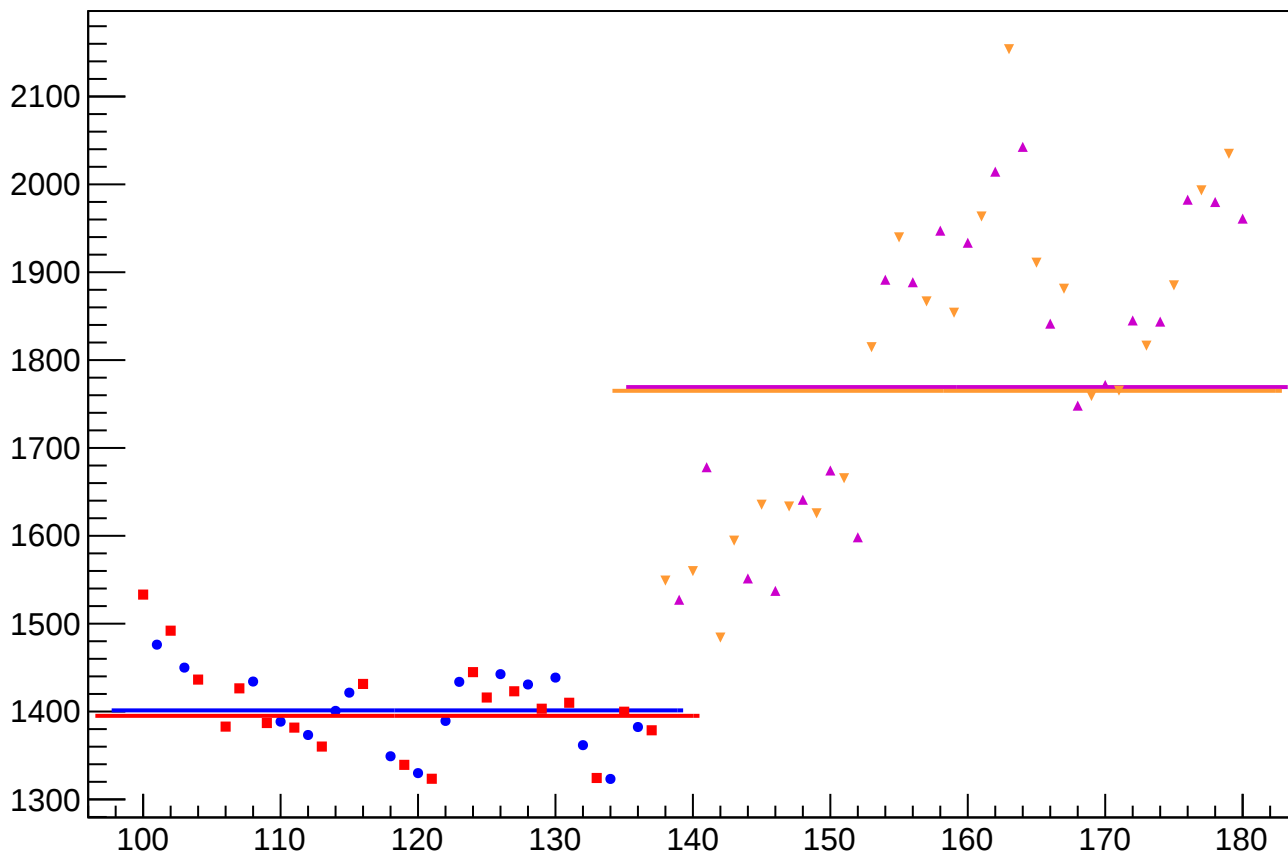
Right: -23.517±/0.375 χ^2/NDF : 8332.8/35

In: -1.230±/0.341 χ^2/NDF :15178.9/37

Out: -3.195±/0.334 χ^2/NDF :2546.8/40

All: -2.233±/0.239 χ^2/NDF : 17742.6/78

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 ± 0.382 $\chi^2/\text{NDF}: 12852.1/16$

Left Out: 1765.040 ± 0.308 $\chi^2/\text{NDF}: 295696.7/21$

Right Out: 1395.105 ± 0.369 $\chi^2/\text{NDF}: 15520.0/18$

Left In: 1769.290 ± 0.311 $\chi^2/\text{NDF}: 284528.3/20$

Left: 1767.140 ± 0.219 $\chi^2/\text{NDF}: 580319.2/42$

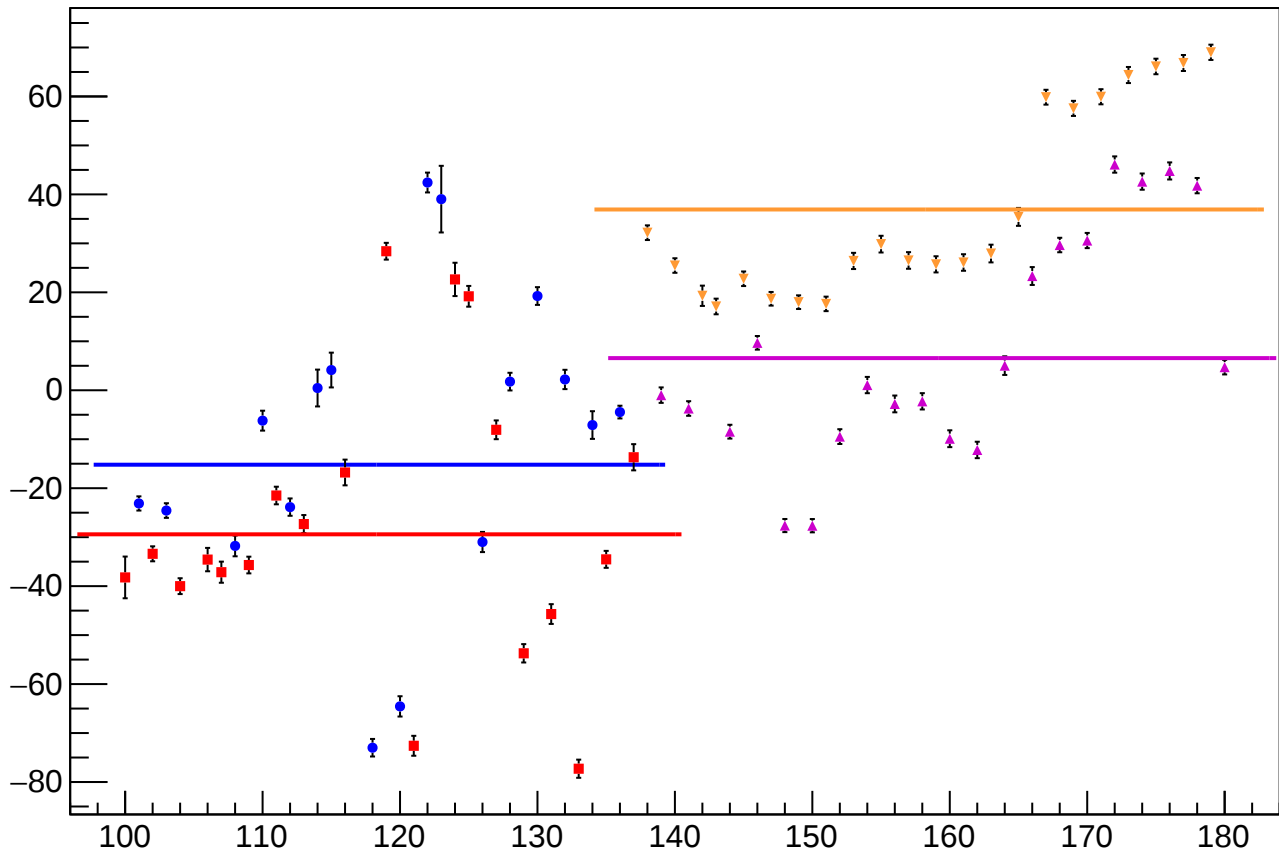
Right: 1398.102 ± 0.265 $\chi^2/\text{NDF}: 28508.5/35$

In: 1622.212 ± 0.241 $\chi^2/\text{NDF}: 855551.9/37$

Out: 1613.273 ± 0.236 $\chi^2/\text{NDF}: 904025.8/40$

All: 1617.650 ± 0.169 $\chi^2/\text{NDF}: 1760278.3/78$

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 $\chi^2/\text{NDF}: 3362.5/16$

Left Out: 36.918 ± 0.340 $\chi^2/\text{NDF}: 3123.9/21$

Right Out: -29.418 ± 0.456 $\chi^2/\text{NDF}: 3544.8/18$

Left In: 6.567 ± 0.343 $\chi^2/\text{NDF}: 4464.7/20$

Left: 21.868 ± 0.241 $\chi^2/\text{NDF}: 11545.1/42$

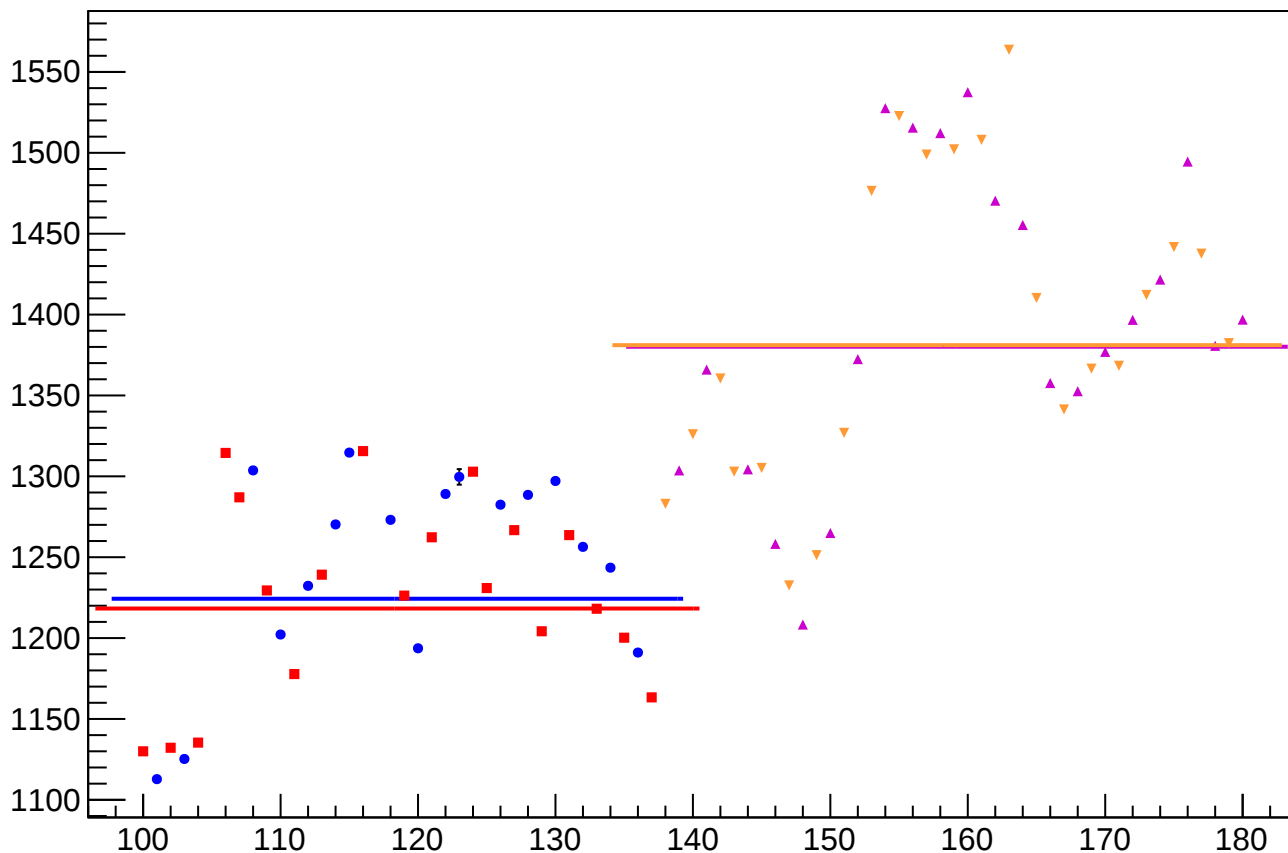
Right: -22.553 ± 0.328 $\chi^2/\text{NDF}: 7376.3/35$

In: -0.942 ± 0.277 $\chi^2/\text{NDF}: 9219.8/37$

Out: 13.248 ± 0.272 $\chi^2/\text{NDF}: 20268.7/40$

All: 6.277 ± 0.194 $\chi^2/\text{NDF}: 30820.8/78$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1381.092+/-0.240 χ^2/NDF :144939.1/21

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1380.114+/-0.242 χ^2/NDF :150874.8/20

Left: 1380.607+/-0.171 χ^2/NDF : 295822.0/42

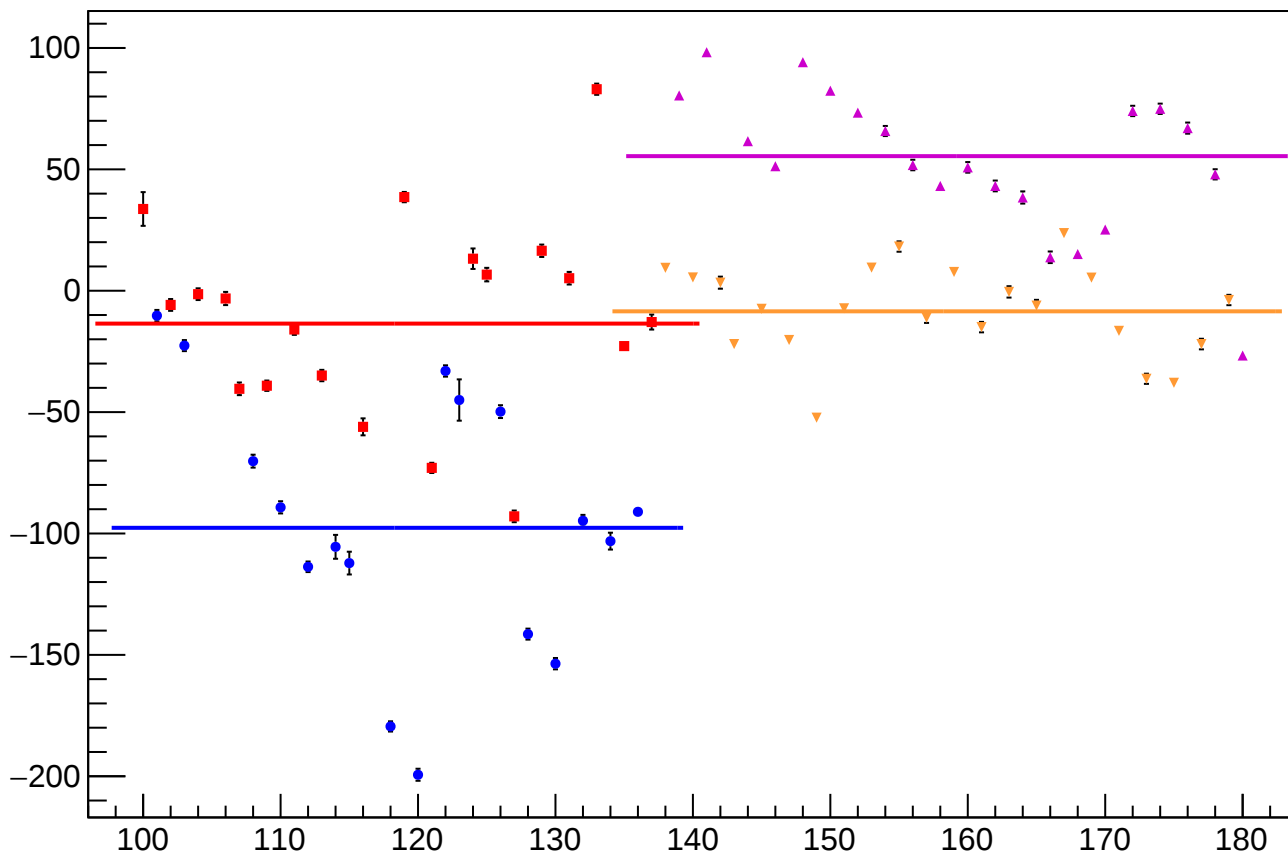
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1326.373+/-0.196 χ^2/NDF :332317.1/37

Out: 1322.997+/-0.193 χ^2/NDF :336369.7/40

All: 1324.656+/-0.137 χ^2/NDF : 668837.6/78

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.485 ± 0.431 χ^2/NDF : 1916.8/21

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 55.444 ± 0.437 χ^2/NDF : 4524.7/20

Left: 22.999 ± 0.307 χ^2/NDF : 17283.9/42

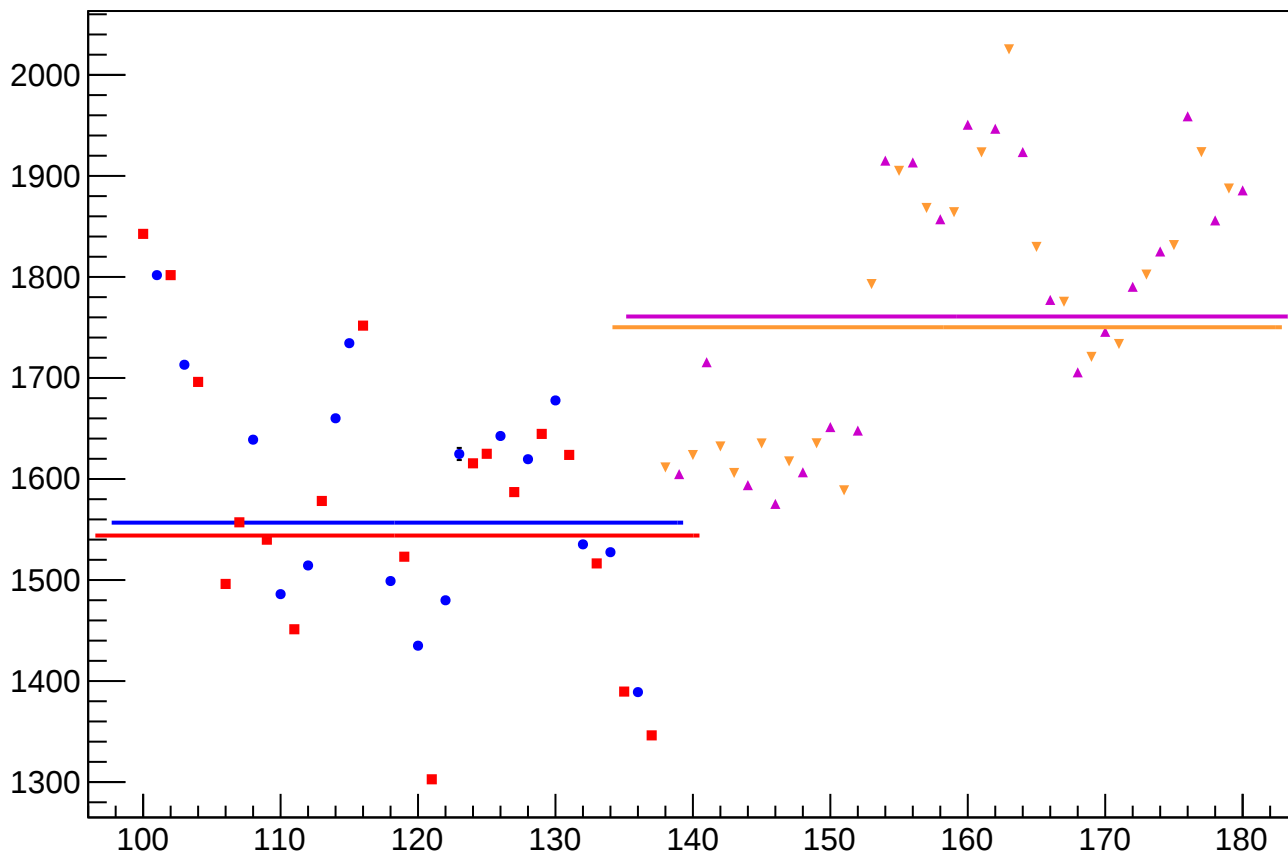
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 2.470 ± 0.354 χ^2/NDF : 54857.0/37

Out: -10.284 ± 0.346 χ^2/NDF : 7093.9/40

All: -4.052 ± 0.247 χ^2/NDF : 62615.9/78

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1750.219 $\pm$ 0.305 χ^2 /NDF:171172.4/21

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1760.851 $\pm$ 0.309 χ^2 /NDF:179418.4/20

Left: 1755.455 $\pm$ 0.217 χ^2 /NDF: 351190.7/42

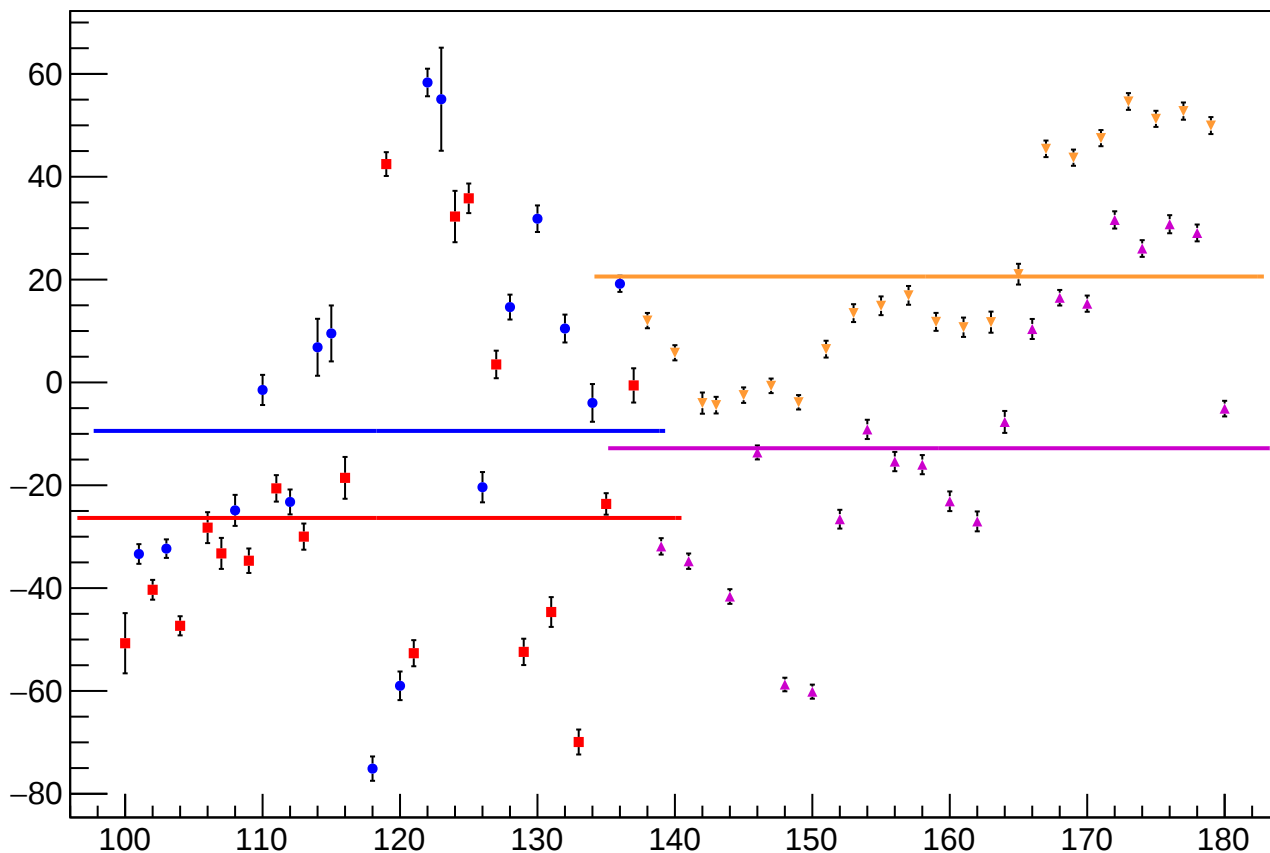
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1690.249 $\pm$ 0.250 χ^2 /NDF:411586.1/37

Out: 1676.798 $\pm$ 0.244 χ^2 /NDF:434772.5/40

All: 1683.370 $\pm$ 0.175 χ^2 /NDF: 847837.7/78

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427+/-0.626 χ^2/NDF : 2924.1/16

Left Out: 20.598+/-0.352 χ^2/NDF :3707.9/21

Right Out: -26.354+/-0.603 χ^2/NDF : 2472.1/18

Left In: -12.797+/-0.357 χ^2/NDF :6722.8/20

Left: 4.133+/-0.251 χ^2/NDF : 14871.6/42

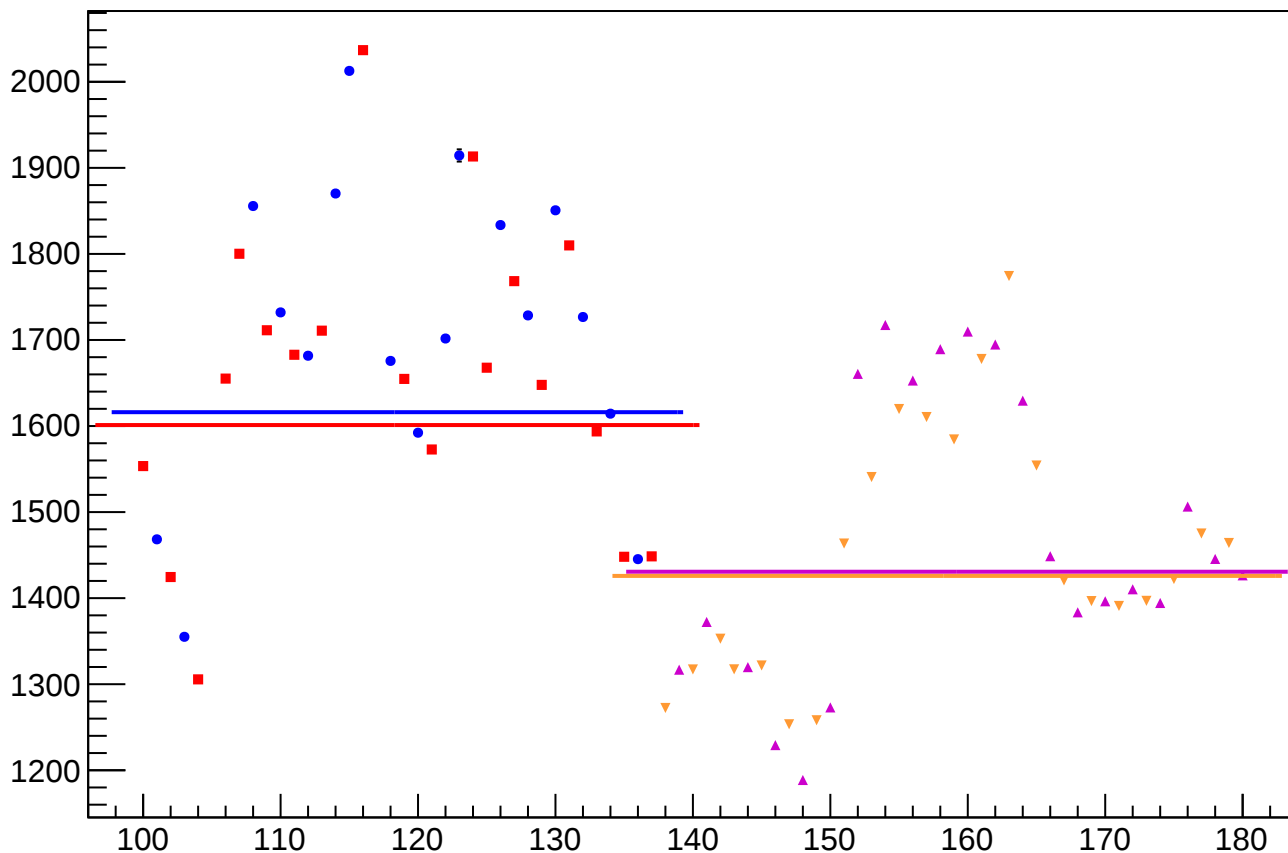
Right: -18.216+/-0.434 χ^2/NDF : 5775.3/35

In: -11.971+/-0.310 χ^2/NDF :9668.8/37

Out: 8.665+/-0.304 χ^2/NDF :10705.1/40

All: -1.446+/-0.217 χ^2/NDF : 22633.4/78

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1425.844 $\pm$ 0.249 χ^2 /NDF: 287659.7/21

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1430.693 $\pm$ 0.252 χ^2 /NDF: 413097.5/20

Left: 1428.235 $\pm$ 0.177 χ^2 /NDF: 700944.4/42

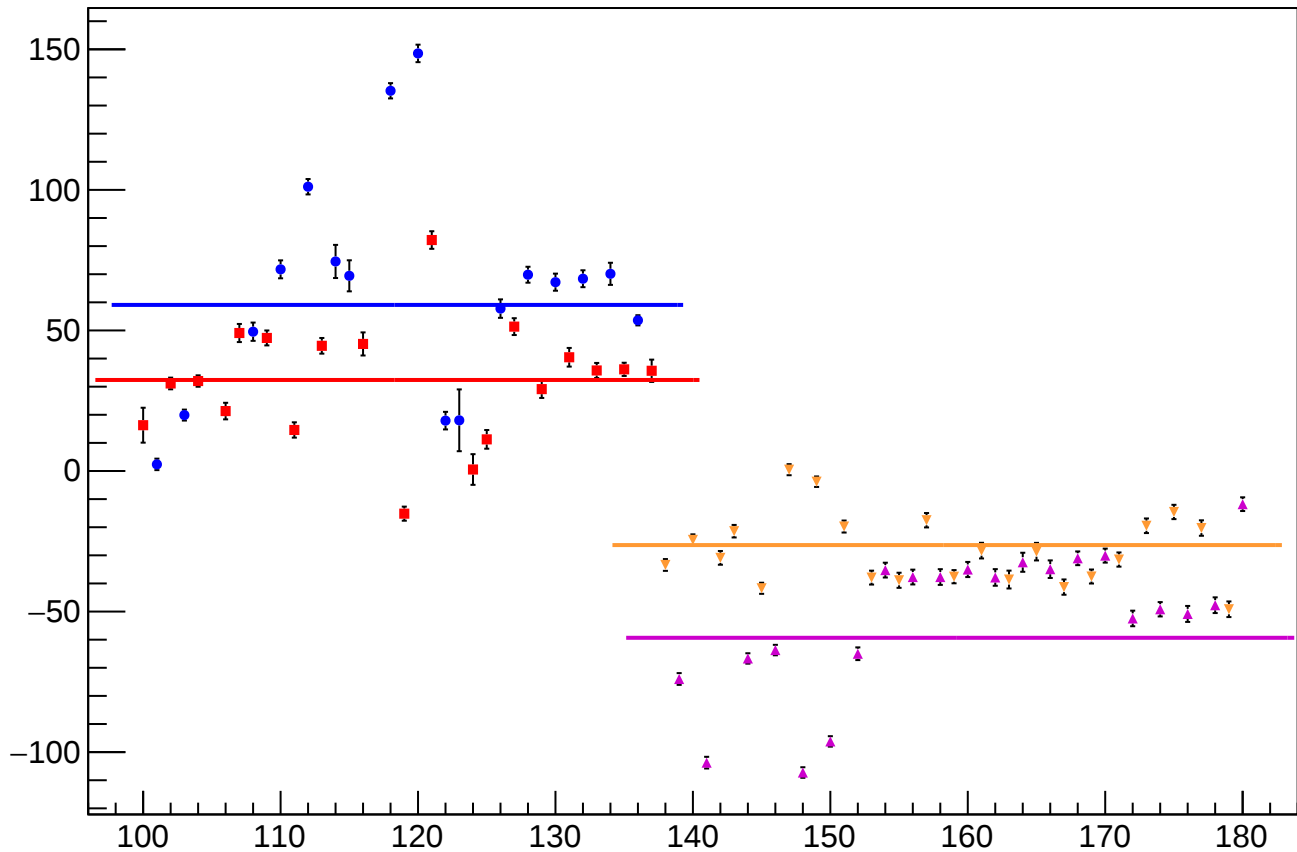
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1476.105 $\pm$ 0.219 χ^2 /NDF: 694961.6/37

Out: 1470.394 $\pm$ 0.215 χ^2 /NDF: 567453.5/40

All: 1473.193 $\pm$ 0.153 χ^2 /NDF: 1262761.2/78

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -26.349 ± 0.509 χ^2/NDF : 671.1/21

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -59.329 ± 0.520 χ^2/NDF : 2745.2/20

Left: -42.502 ± 0.364 χ^2/NDF : 5469.6/42

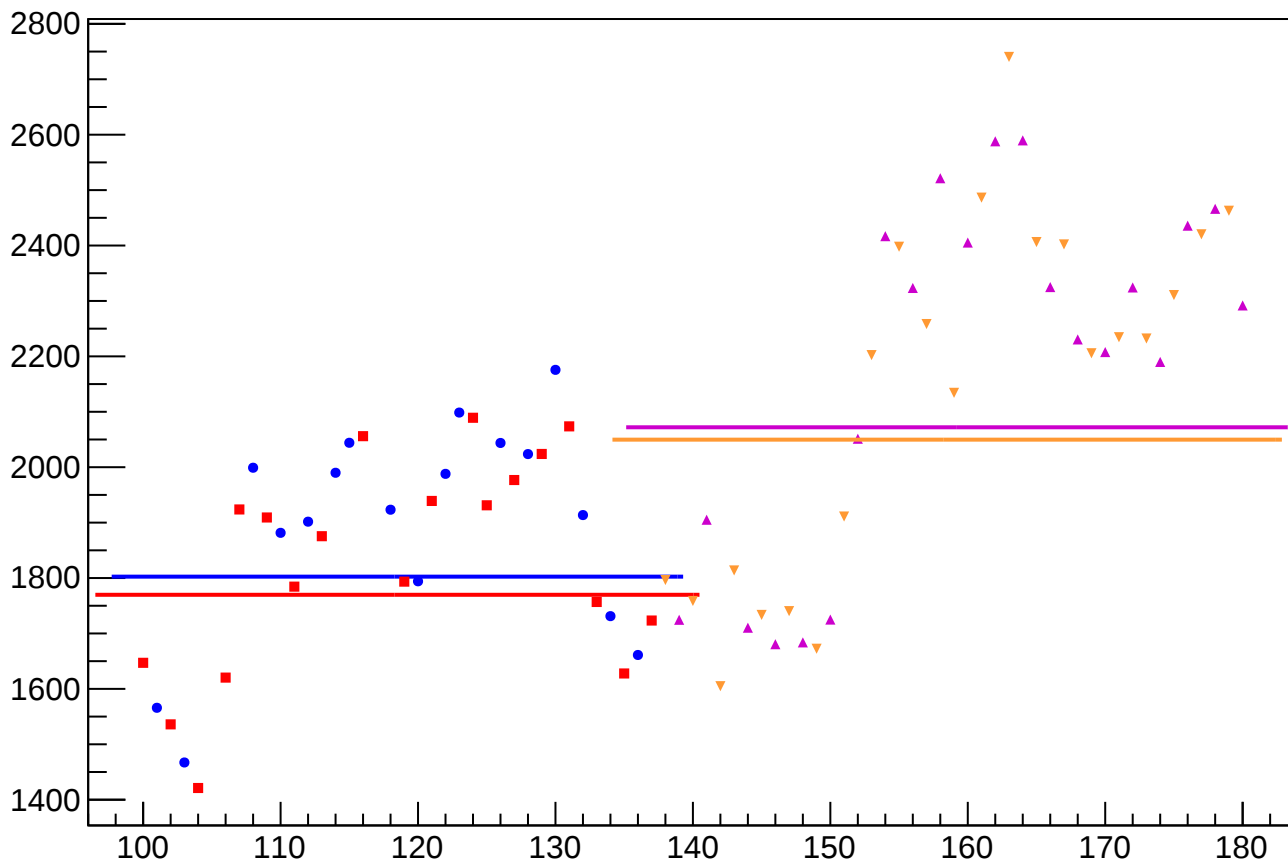
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -17.191 ± 0.417 χ^2/NDF : 24498.8/37

Out: -4.693 ± 0.405 χ^2/NDF : 6464.5/40

All: -10.751 ± 0.291 χ^2/NDF : 31425.6/78

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 $\pm$ 0.495 χ^2 /NDF: 184069.0/16

Left Out: 2049.722 $\pm$ 0.360 χ^2 /NDF: 741968.0/21

Right Out: 1769.772 $\pm$ 0.471 χ^2 /NDF: 177893.4/18

Left In: 2072.023 $\pm$ 0.368 χ^2 /NDF: 768090.5/20

Left: 2060.645 $\pm$ 0.257 χ^2 /NDF: 1511936.2/42

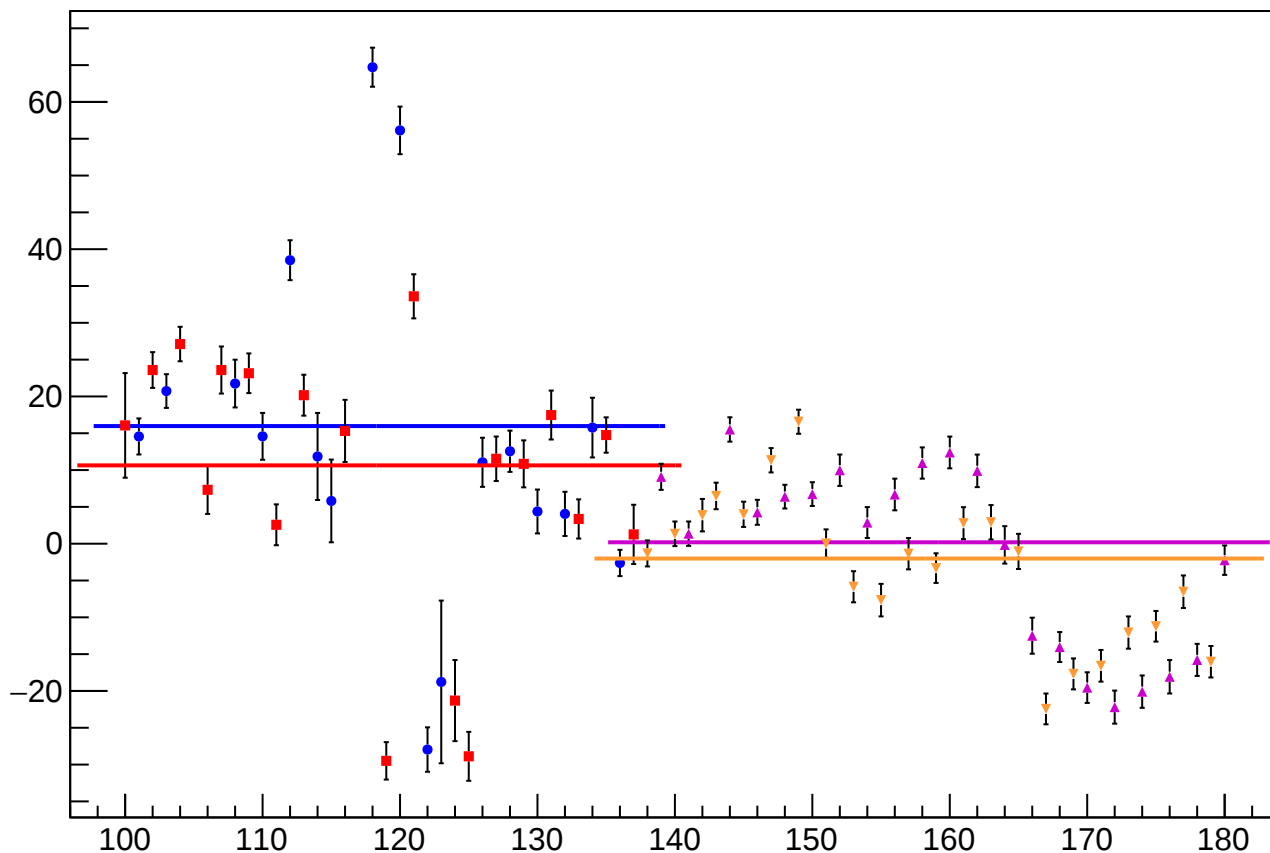
Right: 1785.358 $\pm$ 0.341 χ^2 /NDF: 364260.7/35

In: 1976.118 $\pm$ 0.295 χ^2 /NDF: 1143407.4/37

Out: 1946.496 $\pm$ 0.286 χ^2 /NDF: 1142615.2/40

All: 1960.855 $\pm$ 0.205 χ^2 /NDF: 2291216.5/78

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 $\chi^2/\text{NDF}: 938.4/16$

Left Out: -2.014 ± 0.425 $\chi^2/\text{NDF}: 545.7/21$

Right Out: 10.638 ± 0.693 $\chi^2/\text{NDF}: 642.1/18$

Left In: 0.192 ± 0.433 $\chi^2/\text{NDF}: 727.2/20$

Left: -0.933 ± 0.303 $\chi^2/\text{NDF}: 1286.1/42$

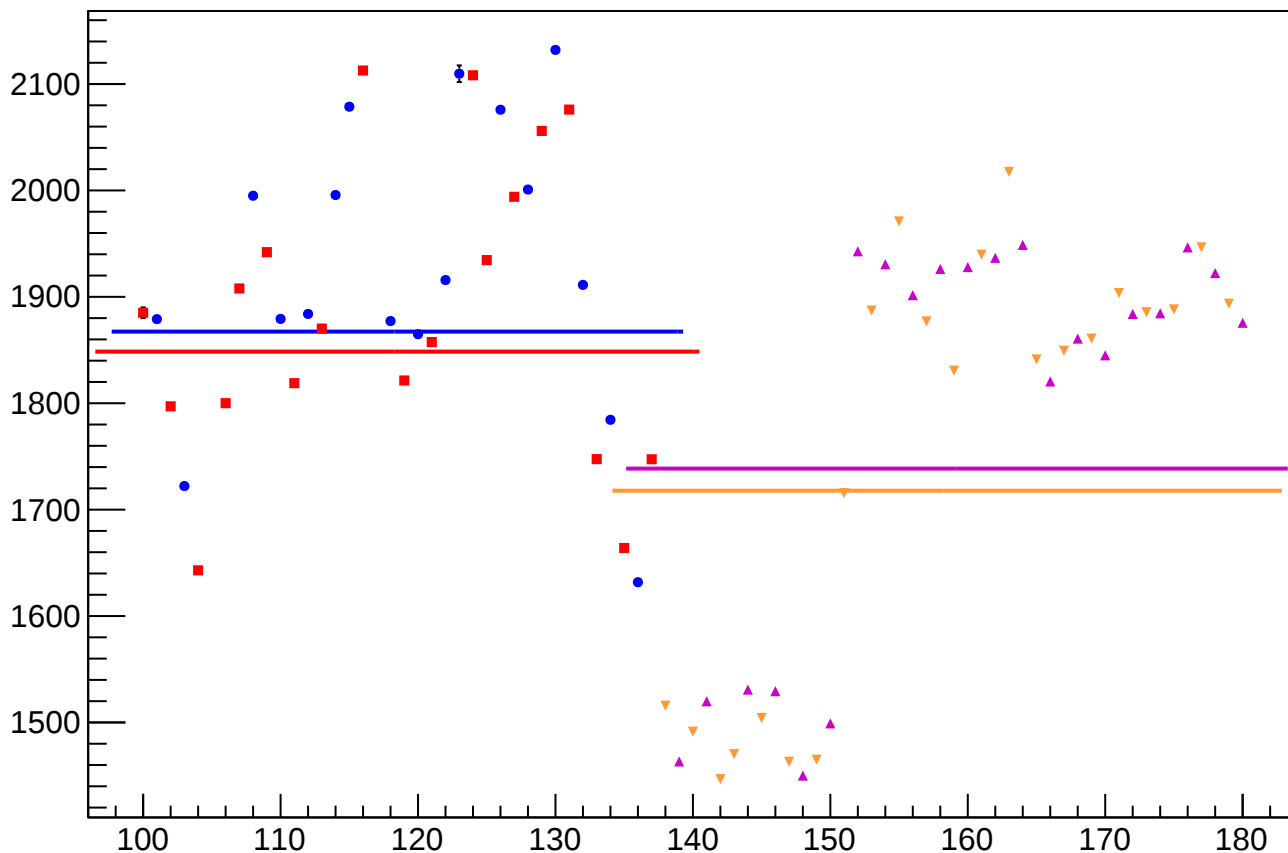
Right: 13.200 ± 0.500 $\chi^2/\text{NDF}: 1608.9/35$

In: 4.378 ± 0.372 $\chi^2/\text{NDF}: 2017.1/37$

Out: 1.439 ± 0.362 $\chi^2/\text{NDF}: 1429.9/40$

All: 2.871 ± 0.259 $\chi^2/\text{NDF}: 3479.1/78$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2/NDF : 80926.4/16

Left Out: 1717.816 $\pm$ 0.300 χ^2/NDF : 465005.3/21

Right Out: 1848.532 $\pm$ 0.490 χ^2/NDF : 72527.3/18

Left In: 1738.586 $\pm$ 0.307 χ^2/NDF : 432677.1/20

Left: 1727.991 $\pm$ 0.215 χ^2/NDF : 900024.5/42

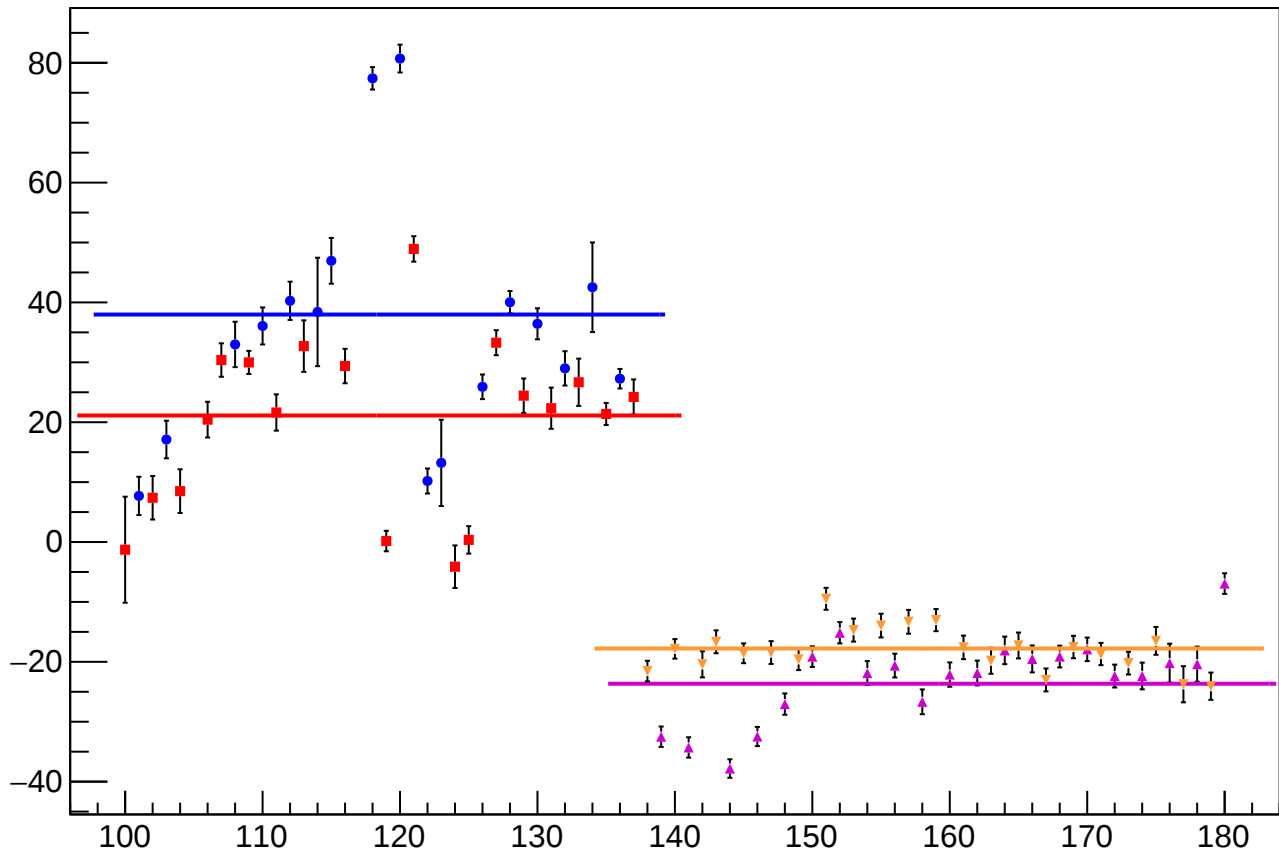
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1772.727 $\pm$ 0.263 χ^2/NDF : 560392.4/37

Out: 1753.492 $\pm$ 0.256 χ^2/NDF : 589217.6/40

All: 1762.864 $\pm$ 0.183 χ^2/NDF : 1152358.0/78

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.775 ± 0.414 $\chi^2/\text{NDF}: 68.7/21$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -23.657 ± 0.421 $\chi^2/\text{NDF}: 341.9/20$

Left: -20.673 ± 0.295 $\chi^2/\text{NDF}: 509.9/42$

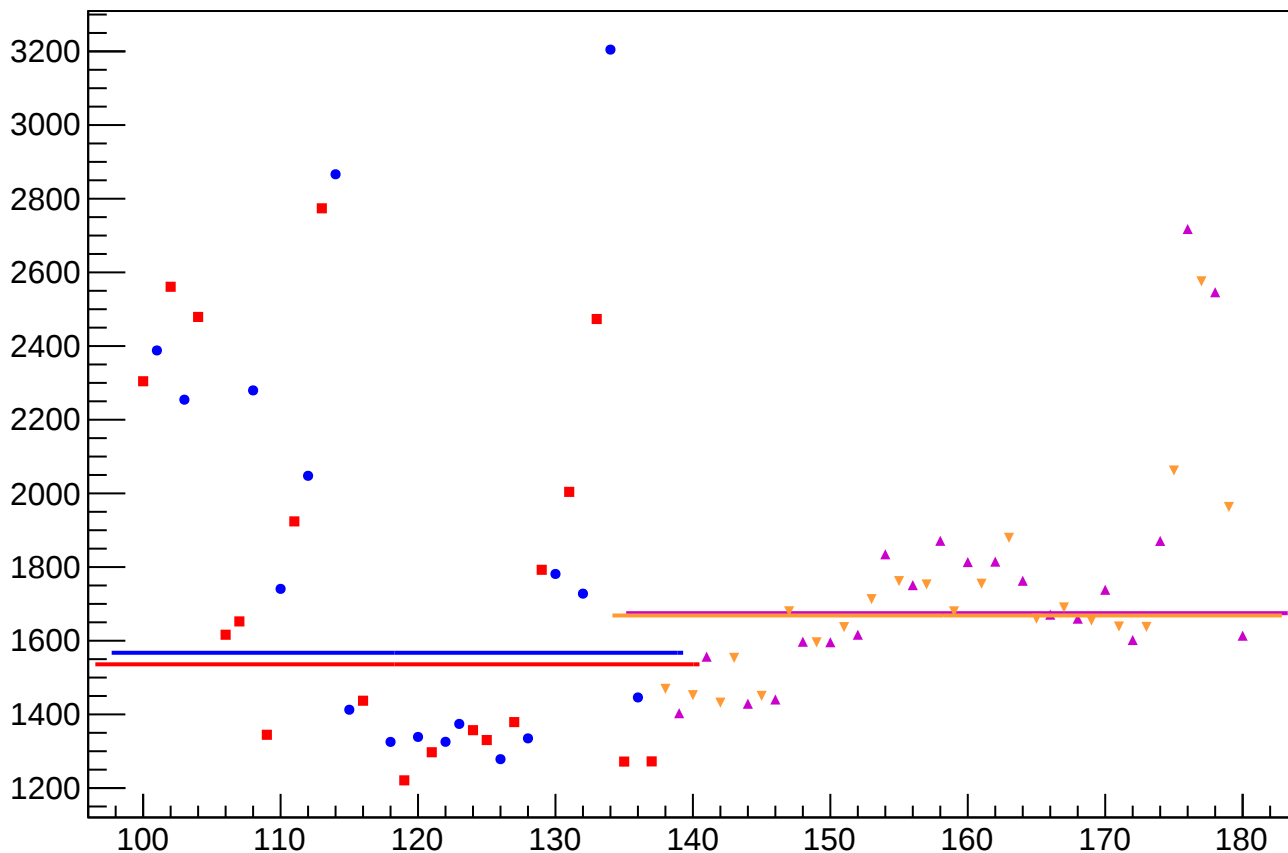
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.964 ± 0.351 $\chi^2/\text{NDF}: 8061.6/37$

Out: -5.448 ± 0.342 $\chi^2/\text{NDF}: 3435.4/40$

All: -5.212 ± 0.245 $\chi^2/\text{NDF}: 11498.0/78$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1668.575 $\pm$ 0.293 χ^2 /NDF: 436610.7/21

Right Out: 1535.967 $\pm$ 0.430 χ^2 /NDF: 882098.2/18

Left In: 1674.798 $\pm$ 0.297 χ^2 /NDF: 626267.7/20

Left: 1671.641 $\pm$ 0.209 χ^2 /NDF: 1063100.6/42

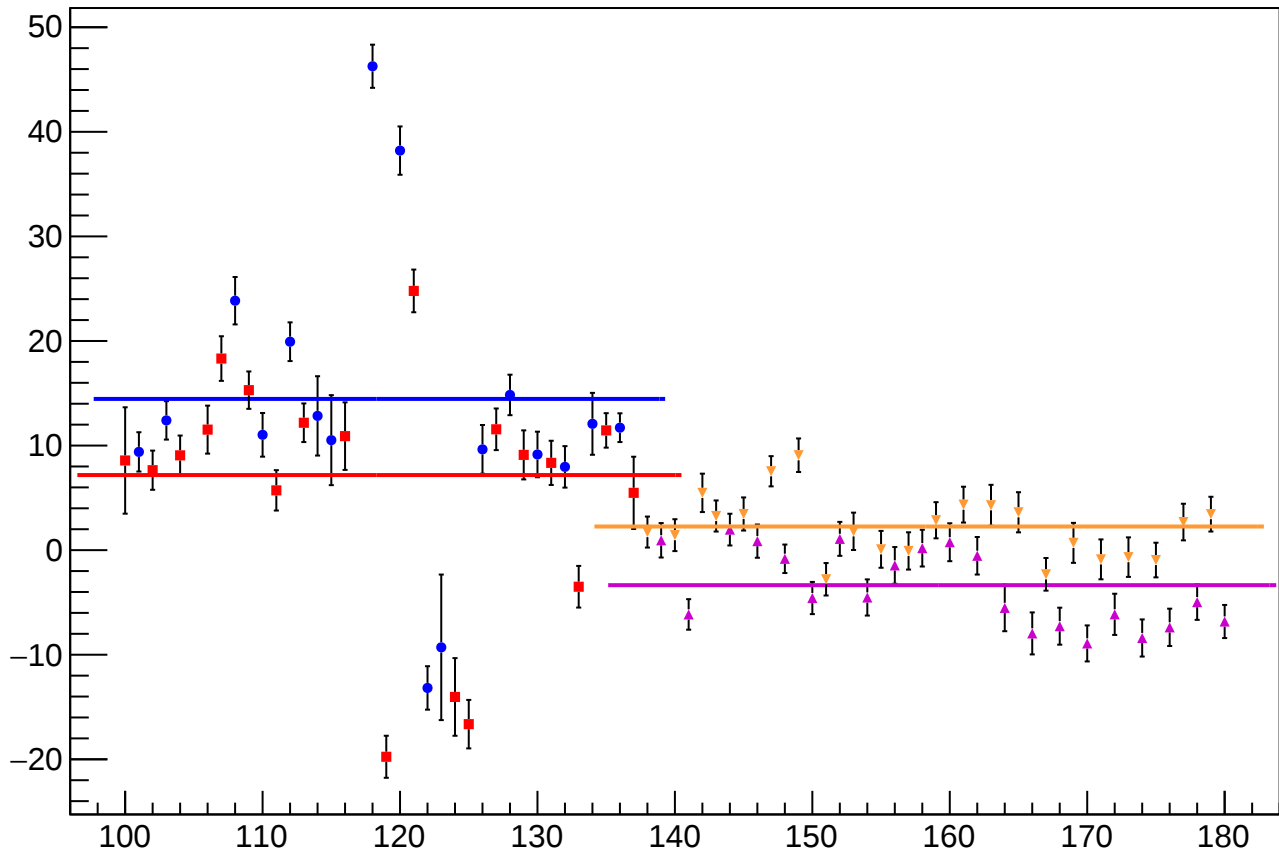
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1642.204 $\pm$ 0.248 χ^2 /NDF: 1339335.6/37

Out: 1626.551 $\pm$ 0.242 χ^2 /NDF: 1383624.6/40

All: 1634.184 $\pm$ 0.173 χ^2 /NDF: 2724997.8/78

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2/NDF : 595.9/16

Left Out: 2.261 $\pm$ 0.359 χ^2/NDF : 71.7/21

Right Out: 7.181 $\pm$ 0.494 χ^2/NDF : 495.7/18

Left In: -3.349 $\pm$ 0.369 χ^2/NDF : 97.0/20

Left: -0.466 $\pm$ 0.257 χ^2/NDF : 287.5/42

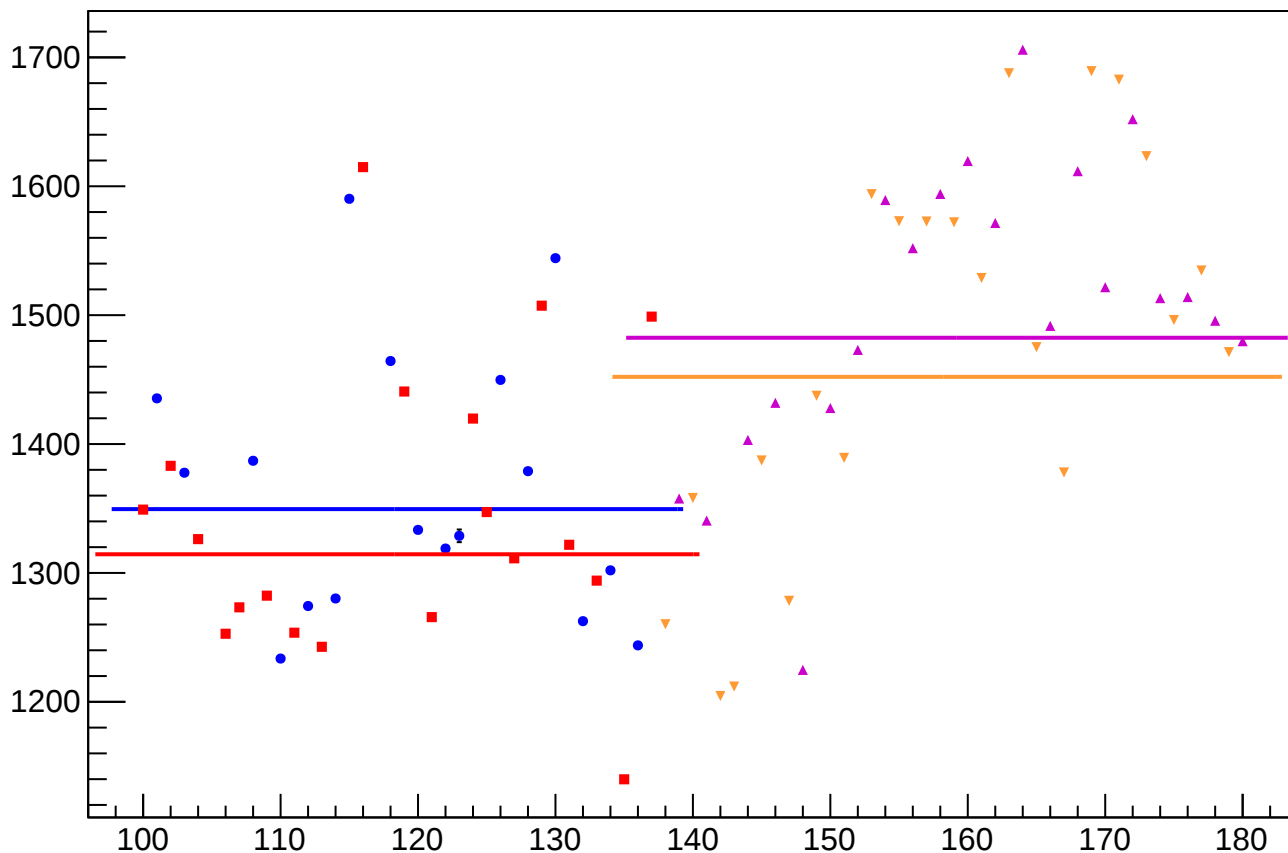
Right: 10.615 $\pm$ 0.359 χ^2/NDF : 1193.9/35

In: 2.566 $\pm$ 0.302 χ^2/NDF : 1466.9/37

Out: 3.959 $\pm$ 0.290 χ^2/NDF : 632.2/40

All: 3.288 $\pm$ 0.209 χ^2/NDF : 2110.1/78

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1452.135 $\pm$ 0.254 χ^2 /NDF: 326607.0/21

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1482.461 $\pm$ 0.261 χ^2 /NDF: 195271.0/20

Left: 1466.879 $\pm$ 0.182 χ^2 /NDF: 528821.3/42

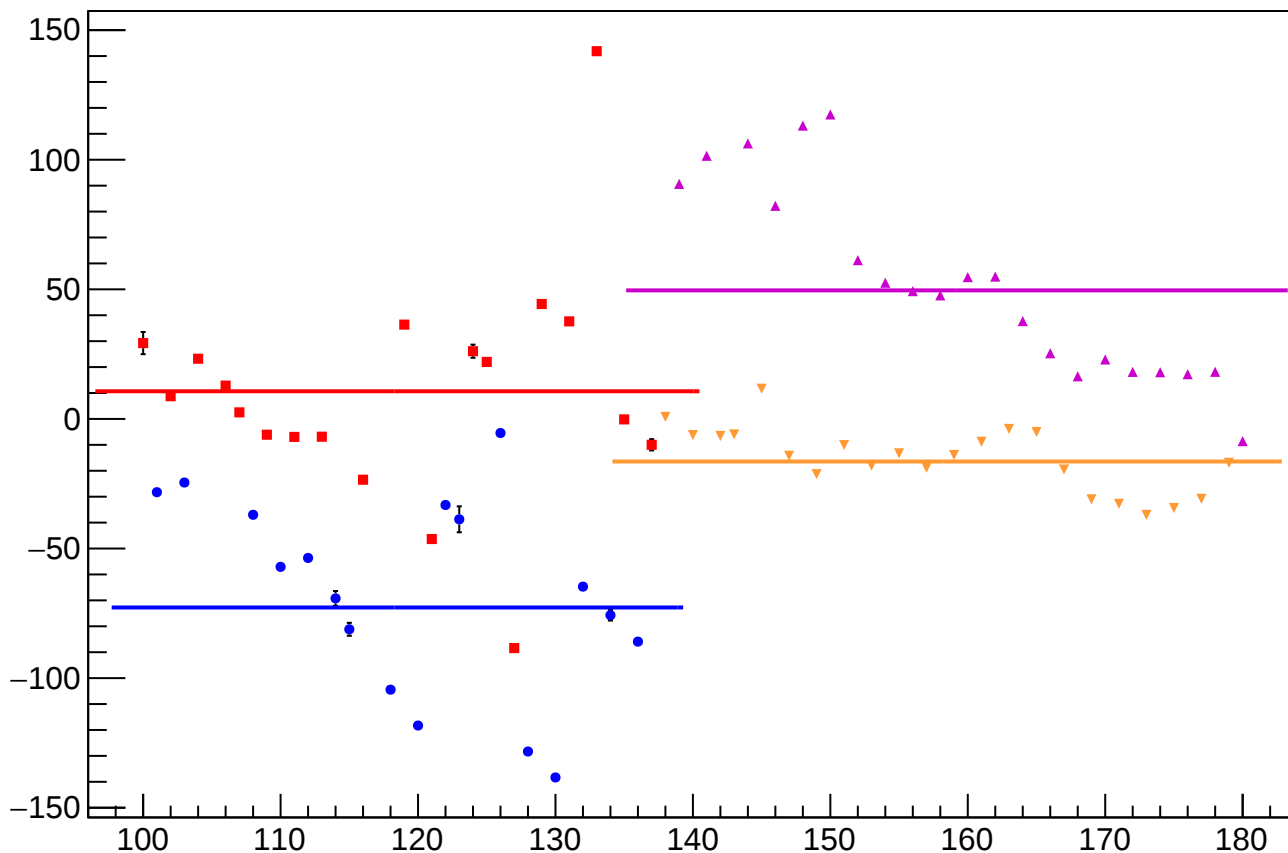
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1438.313 $\pm$ 0.213 χ^2 /NDF: 346177.9/37

Out: 1404.633 $\pm$ 0.205 χ^2 /NDF: 509105.8/40

All: 1420.842 $\pm$ 0.148 χ^2 /NDF: 868229.0/78

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -16.426 +/- 0.223 χ^2/NDF : 3101.0/21

Right Out: 10.671 +/- 0.352 χ^2/NDF : 18171.0/18

Left In: 49.599 +/- 0.227 χ^2/NDF : 25042.4/20

Left: 16.077 +/- 0.159 χ^2/NDF : 71196.0/42

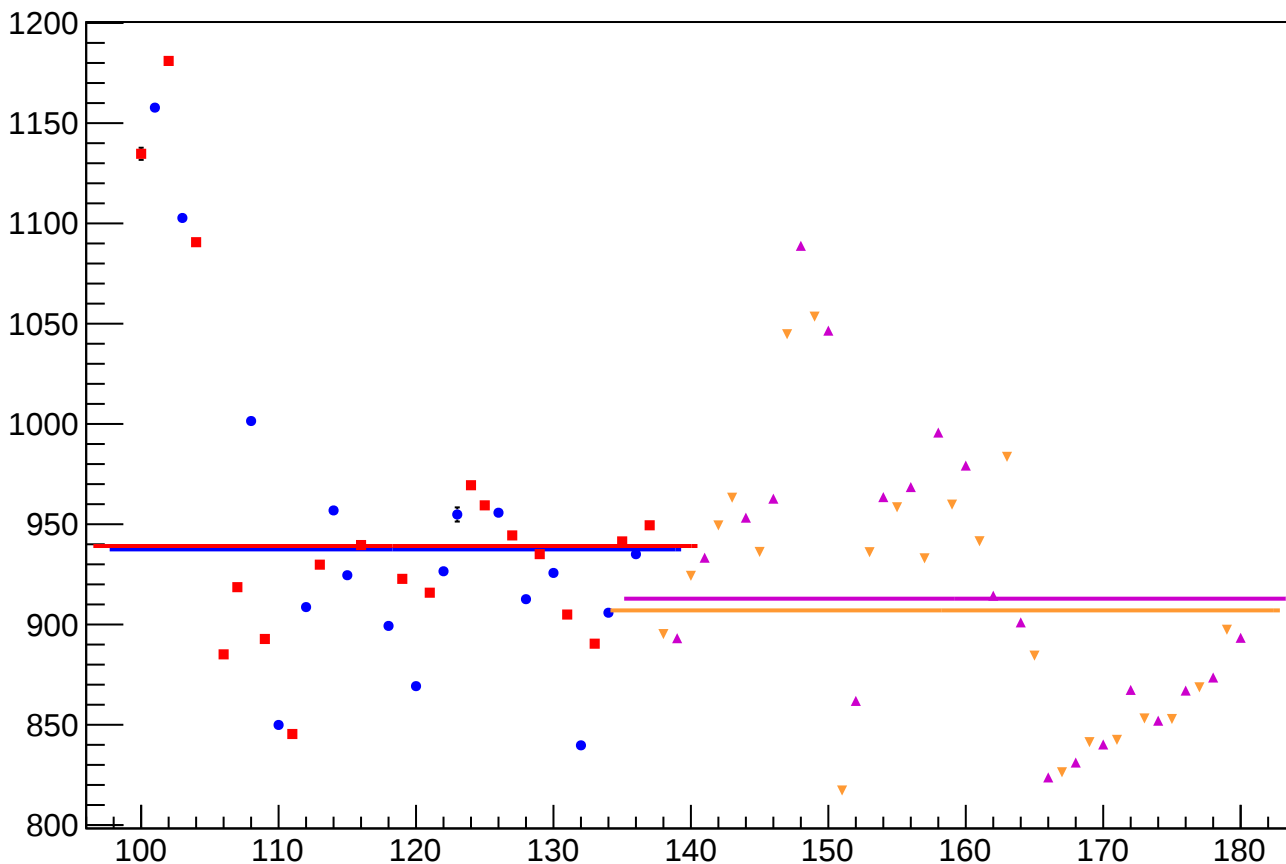
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 15.176 +/- 0.192 χ^2/NDF : 118649.6/37

Out: -8.663 +/- 0.189 χ^2/NDF : 25492.2/40

All: 3.030 +/- 0.135 χ^2/NDF : 151979.5/78

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 907.037 ± 0.158 χ^2/NDF : 159900.0/21

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 912.878 ± 0.160 χ^2/NDF : 174258.4/20

Left: 909.912 ± 0.112 χ^2/NDF : 334832.2/42

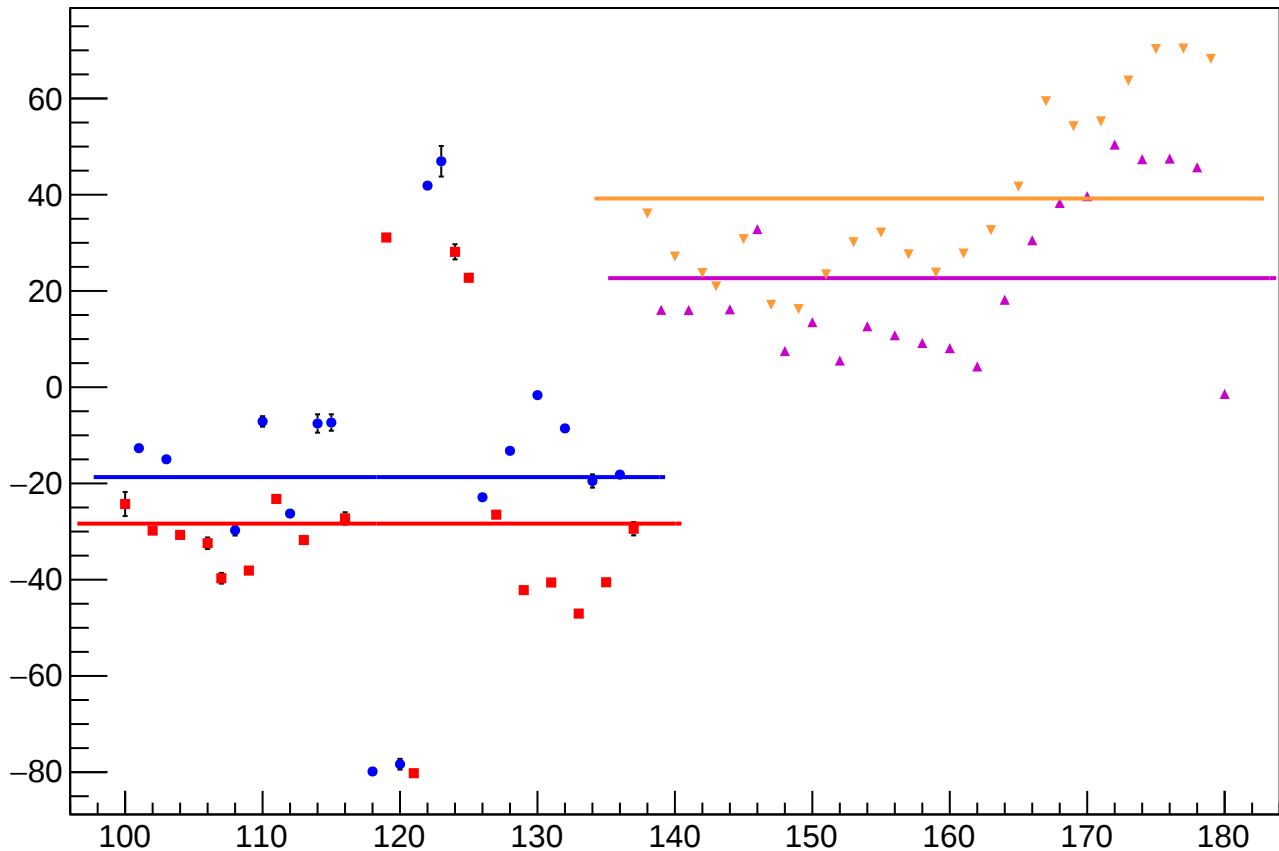
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 919.792 ± 0.136 χ^2/NDF : 279177.4/37

Out: 916.234 ± 0.133 χ^2/NDF : 262000.5/40

All: 917.980 ± 0.095 χ^2/NDF : 541527.1/78

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 39.213 ± 0.176 $\chi^2/\text{NDF}: 10737.2/21$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 22.662 ± 0.180 $\chi^2/\text{NDF}: 8064.3/20$

Left: 31.111 ± 0.126 $\chi^2/\text{NDF}: 23114.5/42$

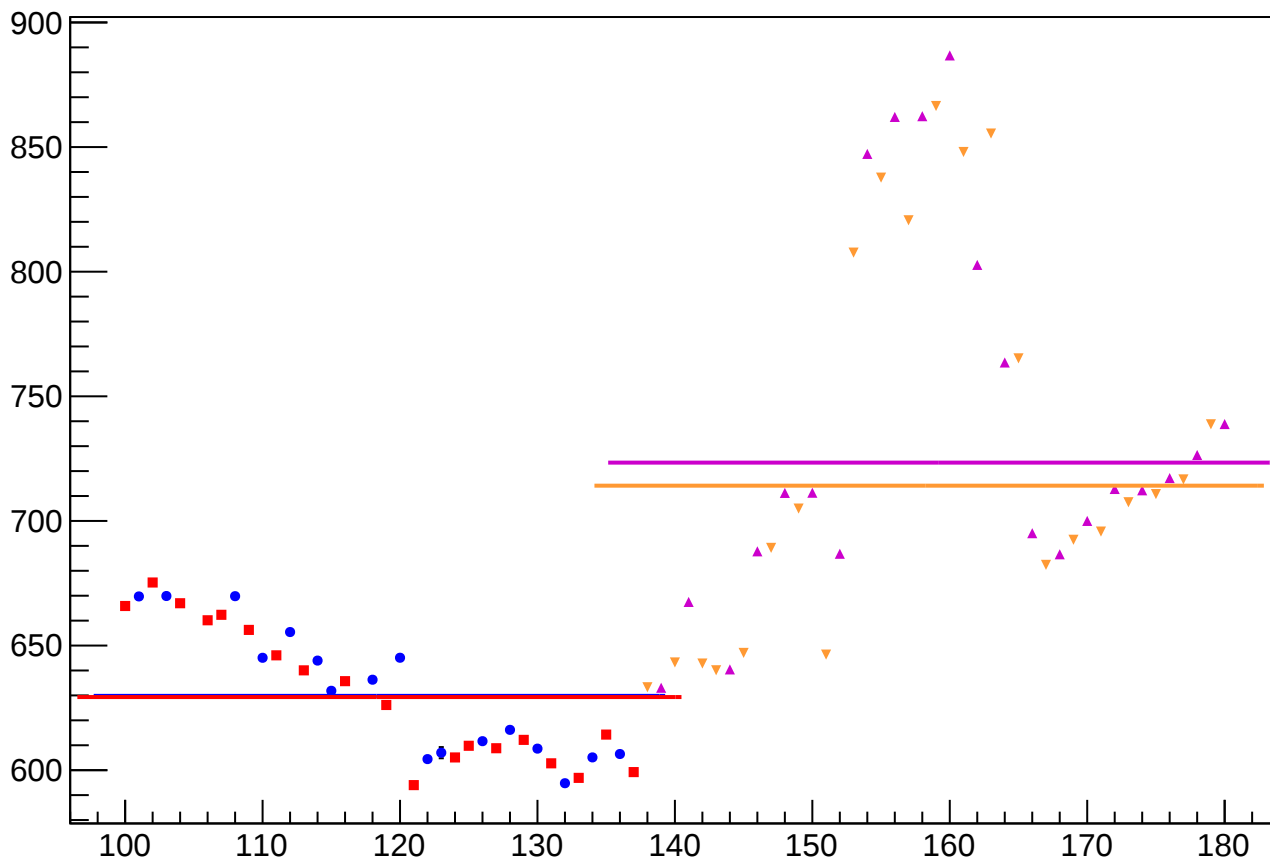
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 7.981 ± 0.145 $\chi^2/\text{NDF}: 39792.9/37$

Out: 14.938 ± 0.141 $\chi^2/\text{NDF}: 75992.7/40$

All: 11.544 ± 0.101 $\chi^2/\text{NDF}: 116971.1/78$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815 ± 0.172 χ^2/NDF : 23298.3/16

Left Out: 714.151 ± 0.125 χ^2/NDF : 334162.2/21

Right Out: 629.340 ± 0.166 χ^2/NDF : 25538.5/18

Left In: 723.398 ± 0.127 χ^2/NDF : 279138.0/20

Left: 718.678 ± 0.089 χ^2/NDF : 615993.3/42

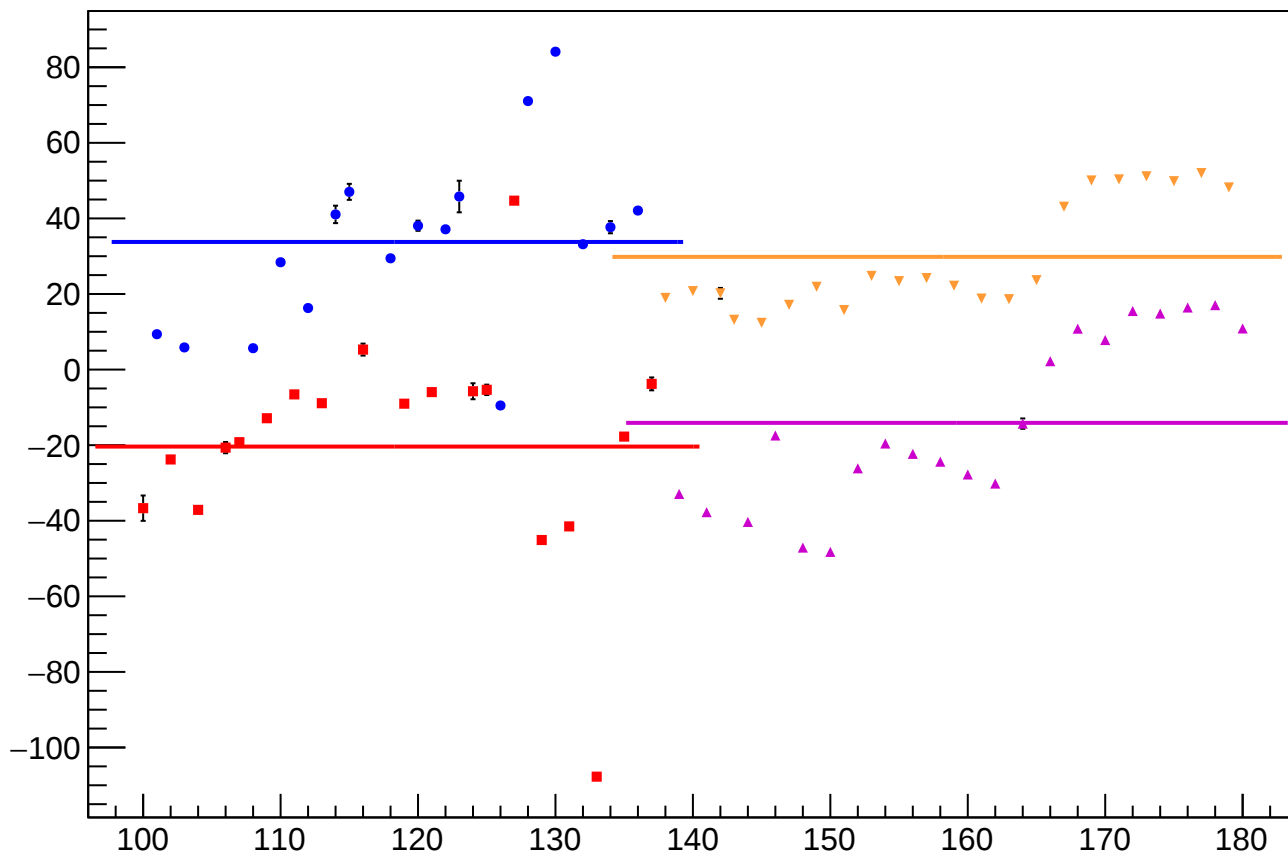
Right: 629.570 ± 0.119 χ^2/NDF : 48840.7/35

In: 690.168 ± 0.102 χ^2/NDF : 494276.5/37

Out: 683.677 ± 0.100 χ^2/NDF : 525948.4/40

All: 686.844 ± 0.071 χ^2/NDF : 1022288.9/78

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2 /NDF: 6487.9/16

Left Out: 29.825+/-0.250 χ^2 /NDF:3361.7/21

Right Out: -20.375+/-0.293 χ^2 /NDF: 11287.7/18

Left In: -14.097+/-0.253 χ^2 /NDF:7916.2/20

Left: 8.120+/-0.178 χ^2 /NDF: 26493.5/42

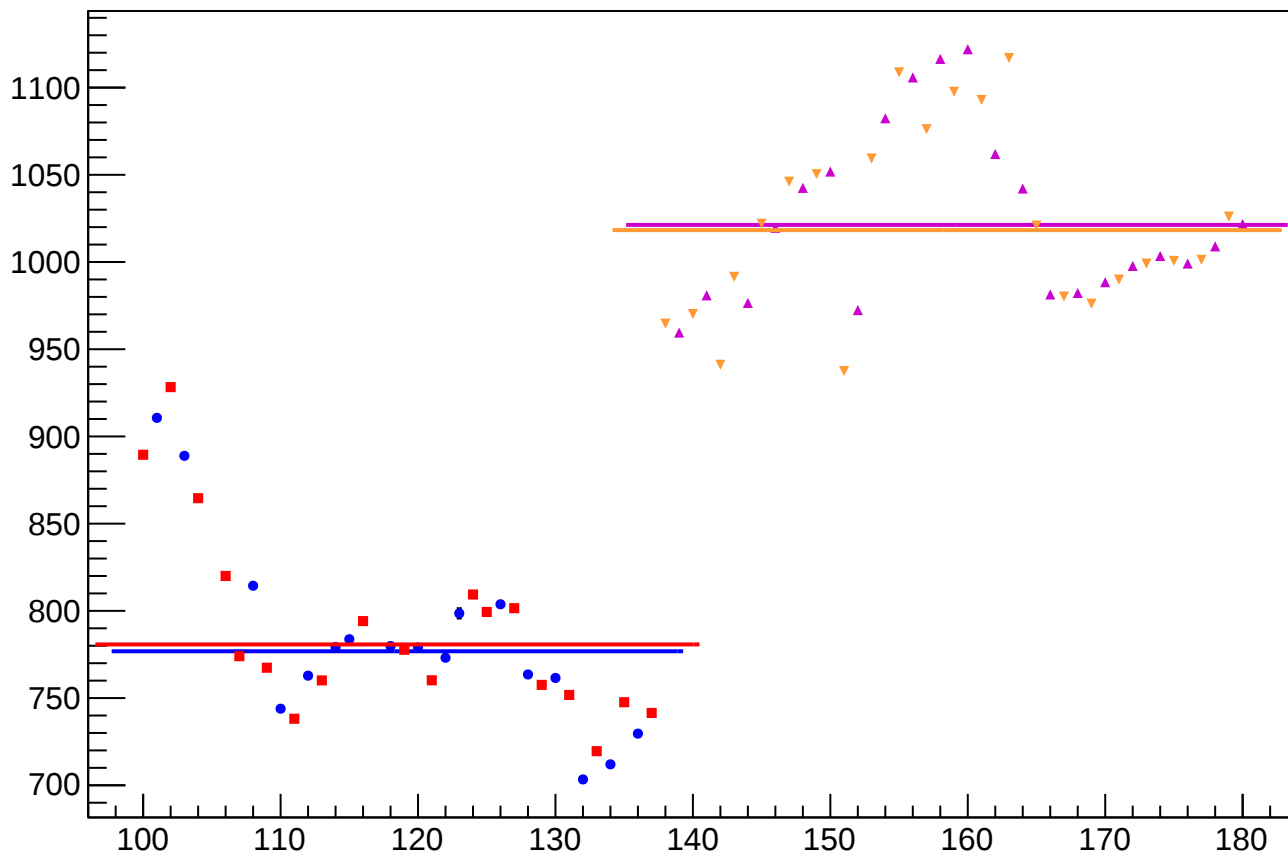
Right: 6.025+/-0.209 χ^2 /NDF: 34481.3/35

In: 5.829+/-0.193 χ^2 /NDF:29277.6/37

Out: 8.605+/-0.190 χ^2 /NDF:31650.5/40

All: 7.241+/-0.136 χ^2 /NDF: 61032.9/78

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2/NDF : 67487.1/16

Left Out: 1018.282 $\pm$ 0.177 χ^2/NDF : 83116.3/21

Right Out: 780.755 $\pm$ 0.207 χ^2/NDF : 57428.9/18

Left In: 1021.267 $\pm$ 0.179 χ^2/NDF : 68799.7/20

Left: 1019.757 $\pm$ 0.126 χ^2/NDF : 152056.6/42

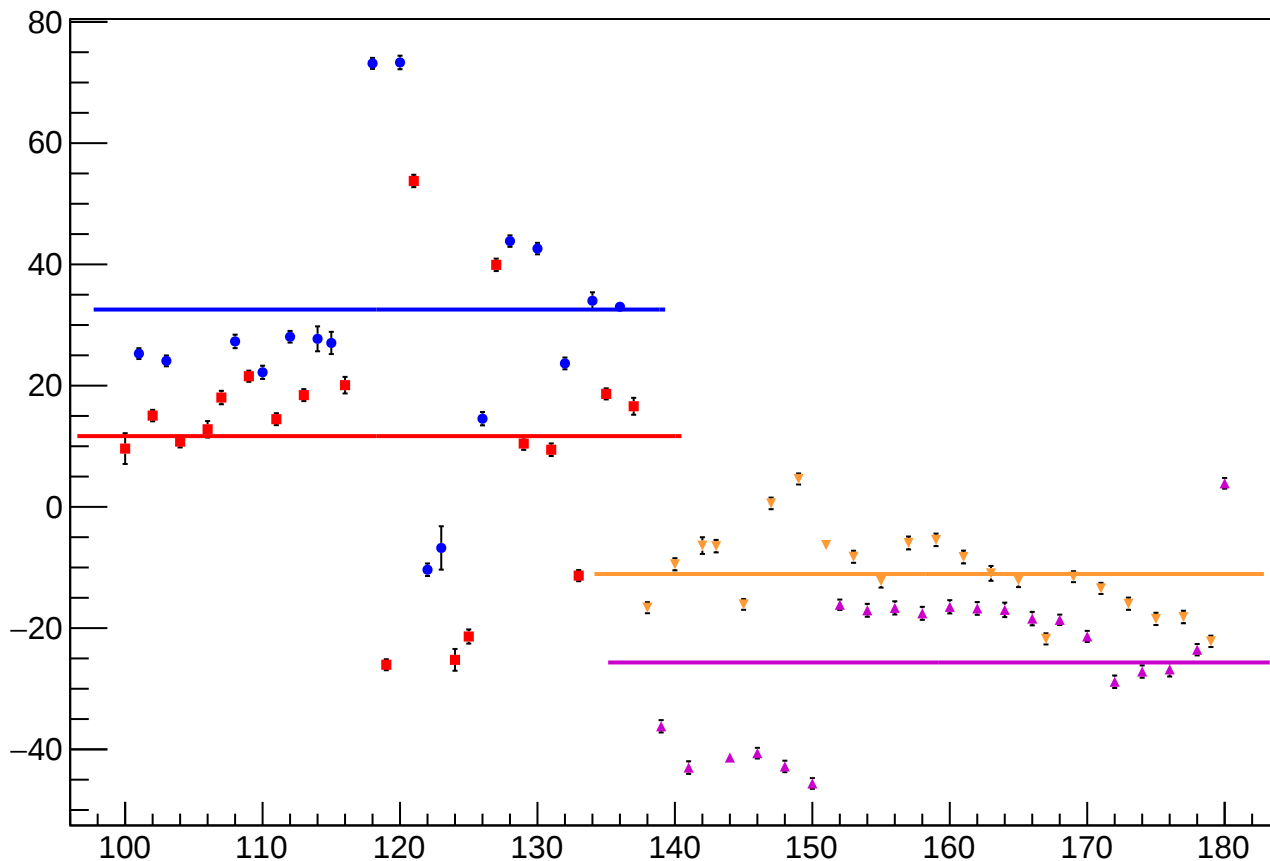
Right: 778.845 $\pm$ 0.148 χ^2/NDF : 125090.9/35

In: 919.522 $\pm$ 0.137 χ^2/NDF : 911858.4/37

Out: 917.879 $\pm$ 0.134 χ^2/NDF : 901816.1/40

All: 918.687 $\pm$ 0.096 χ^2/NDF : 1813747.8/78

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -11.071 ± 0.211 χ^2/NDF : 1059.2/21

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -25.664 ± 0.214 χ^2/NDF : 3660.6/20

Left: -18.276 ± 0.150 χ^2/NDF : 7074.2/42

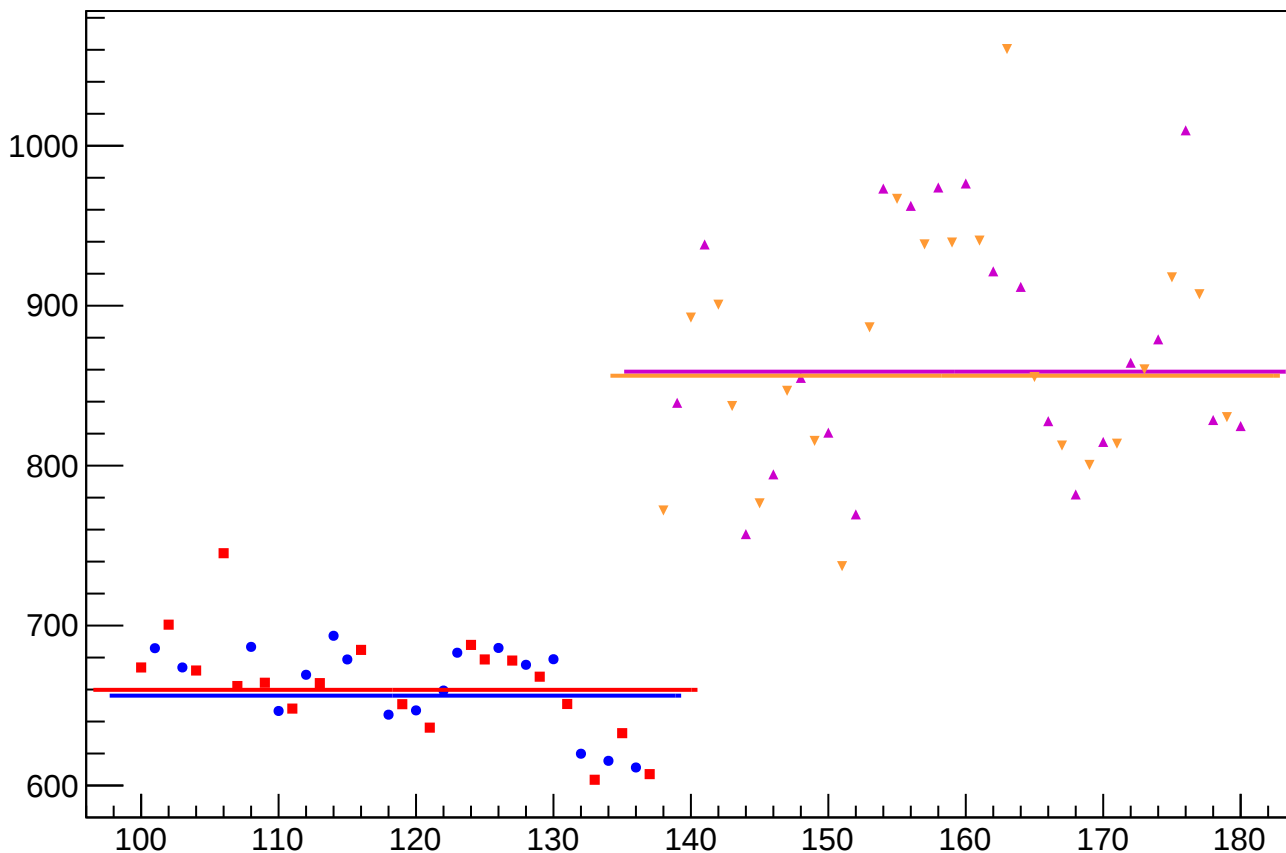
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -1.369 ± 0.163 χ^2/NDF : 40619.0/37

Out: -1.457 ± 0.161 χ^2/NDF : 12312.4/40

All: -1.414 ± 0.115 χ^2/NDF : 52931.6/78

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 ± 0.179 χ^2/NDF : 23569.6/16

Left Out: 856.217 ± 0.149 χ^2/NDF : 230642.0/21

Right Out: 659.813 ± 0.175 χ^2/NDF : 28325.7/18

Left In: 858.748 ± 0.151 χ^2/NDF : 238103.5/20

Left: 857.467 ± 0.106 χ^2/NDF : 468887.2/42

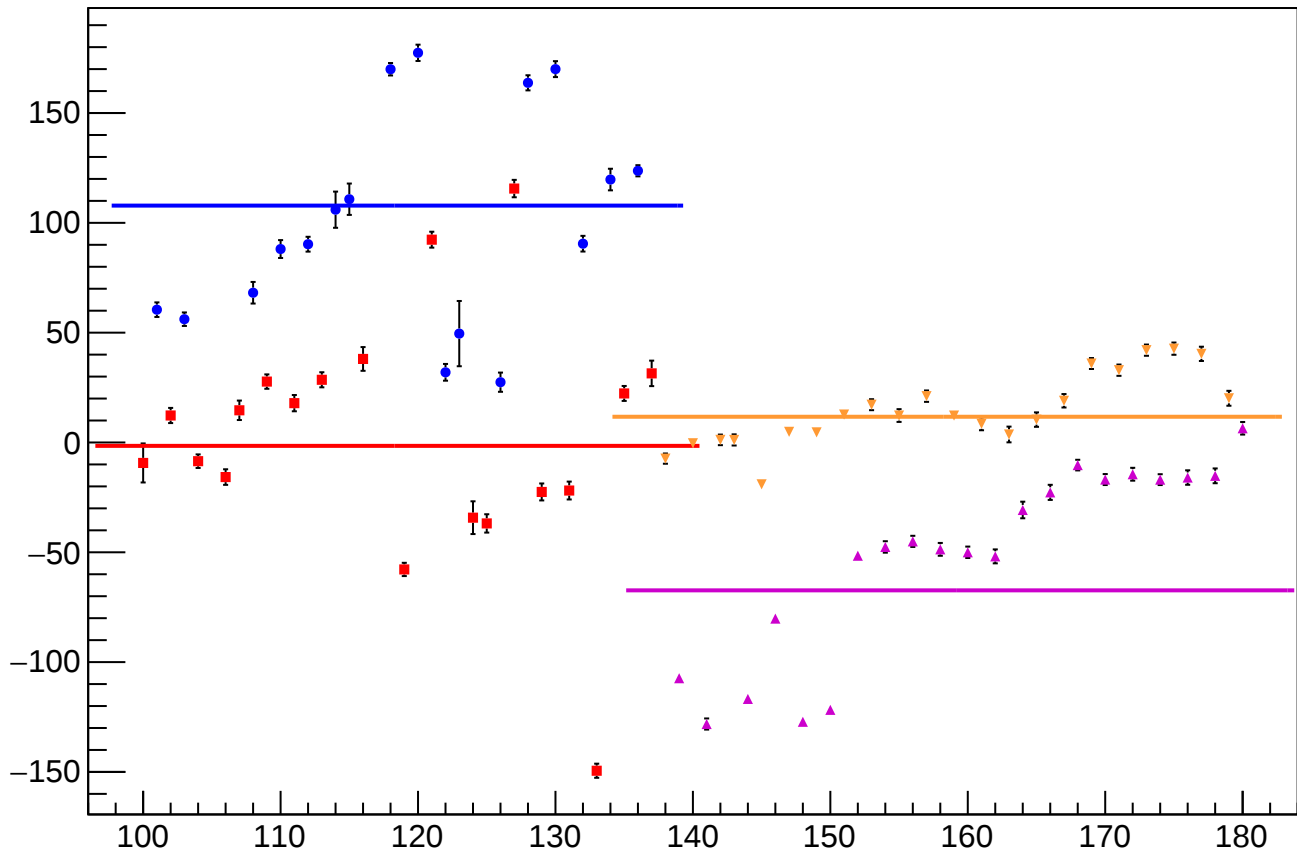
Right: 658.039 ± 0.125 χ^2/NDF : 52106.5/35

In: 774.213 ± 0.116 χ^2/NDF : 1009549.1/37

Out: 773.200 ± 0.114 χ^2/NDF : 989063.0/40

All: 773.698 ± 0.081 χ^2/NDF : 1998651.2/78

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 χ^2/NDF : 2809.0/16

Left Out: 11.712 ± 0.526 χ^2/NDF : 936.2/21

Right Out: -1.542 ± 0.883 χ^2/NDF : 4523.8/18

Left In: -67.331 ± 0.531 χ^2/NDF : 7130.6/20

Left: -27.438 ± 0.373 χ^2/NDF : 19262.5/42

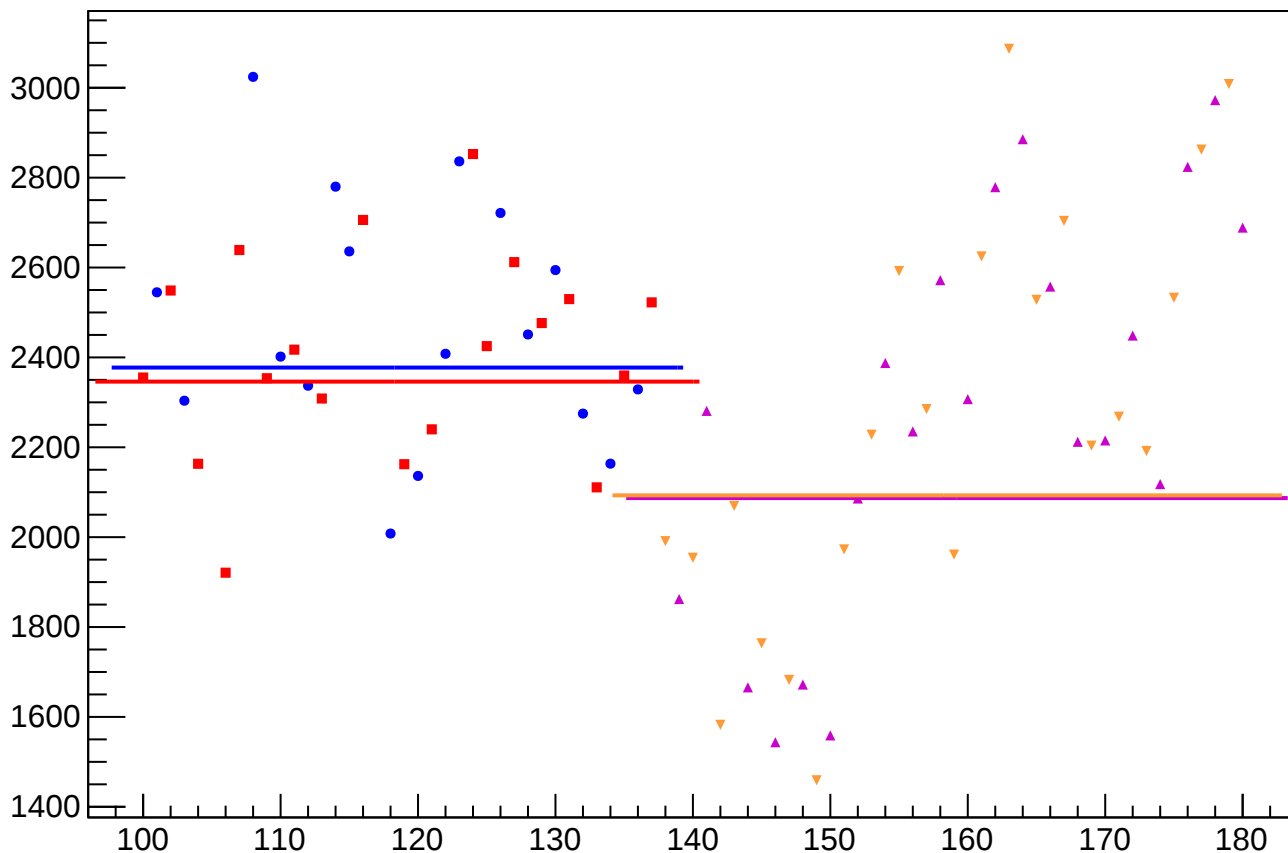
Right: 50.839 ± 0.638 χ^2/NDF : 14676.8/35

In: -23.701 ± 0.460 χ^2/NDF : 37076.9/37

Out: 8.245 ± 0.452 χ^2/NDF : 5626.2/40

All: -7.443 ± 0.322 χ^2/NDF : 45158.6/78

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2093.042+/-0.372 χ^2/NDF : 1294246.2/21

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 2086.985+/-0.375 χ^2/NDF : 1326725.0/20

Left: 2090.042+/-0.264 χ^2/NDF : 2621102.7/42

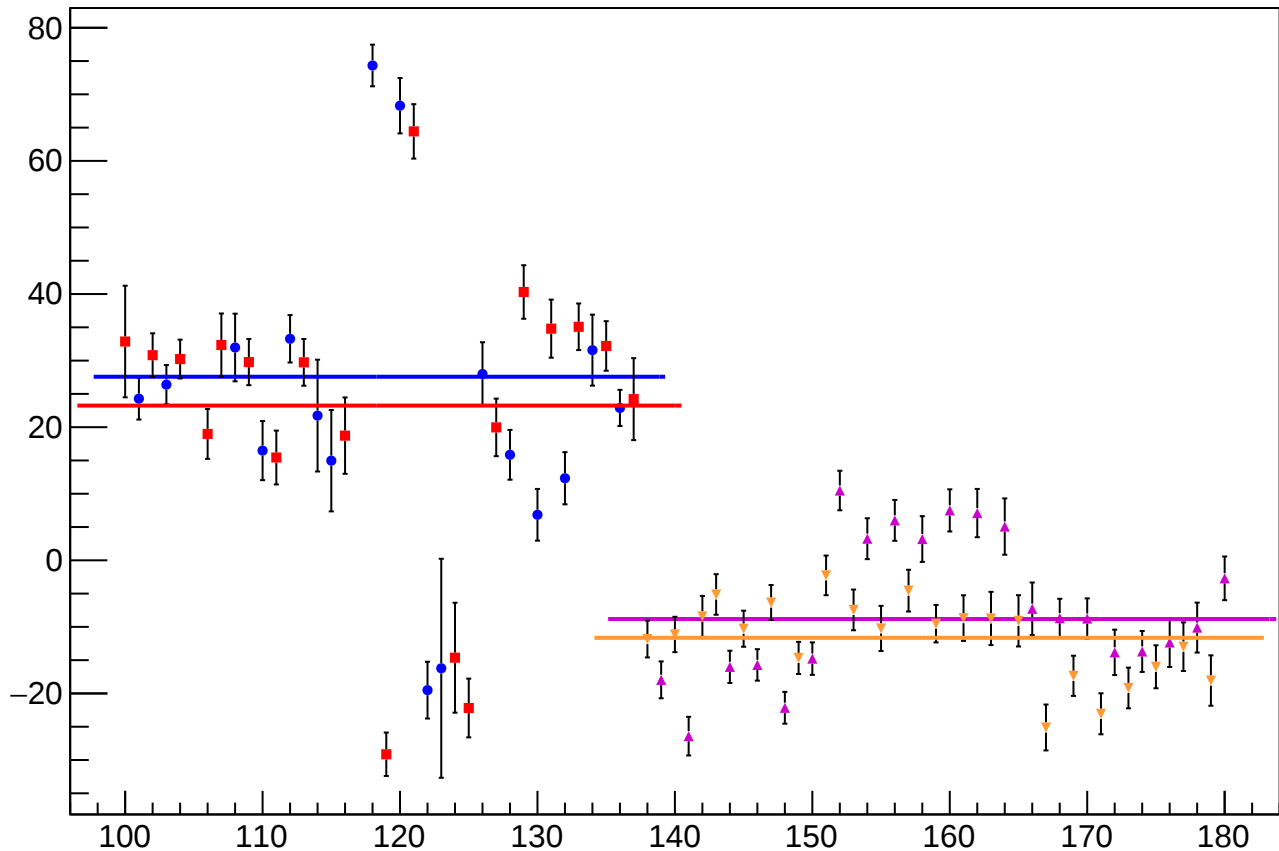
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2159.320+/-0.325 χ^2/NDF : 1595557.2/37

Out: 2159.245+/-0.319 χ^2/NDF : 1523734.4/40

All: 2159.281+/-0.228 χ^2/NDF : 3119291.6/78

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.640 ± 0.654 $\chi^2/\text{NDF}: 74.5/21$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.821 ± 0.659 $\chi^2/\text{NDF}: 261.1/20$

Left: -10.240 ± 0.464 $\chi^2/\text{NDF}: 344.8/42$

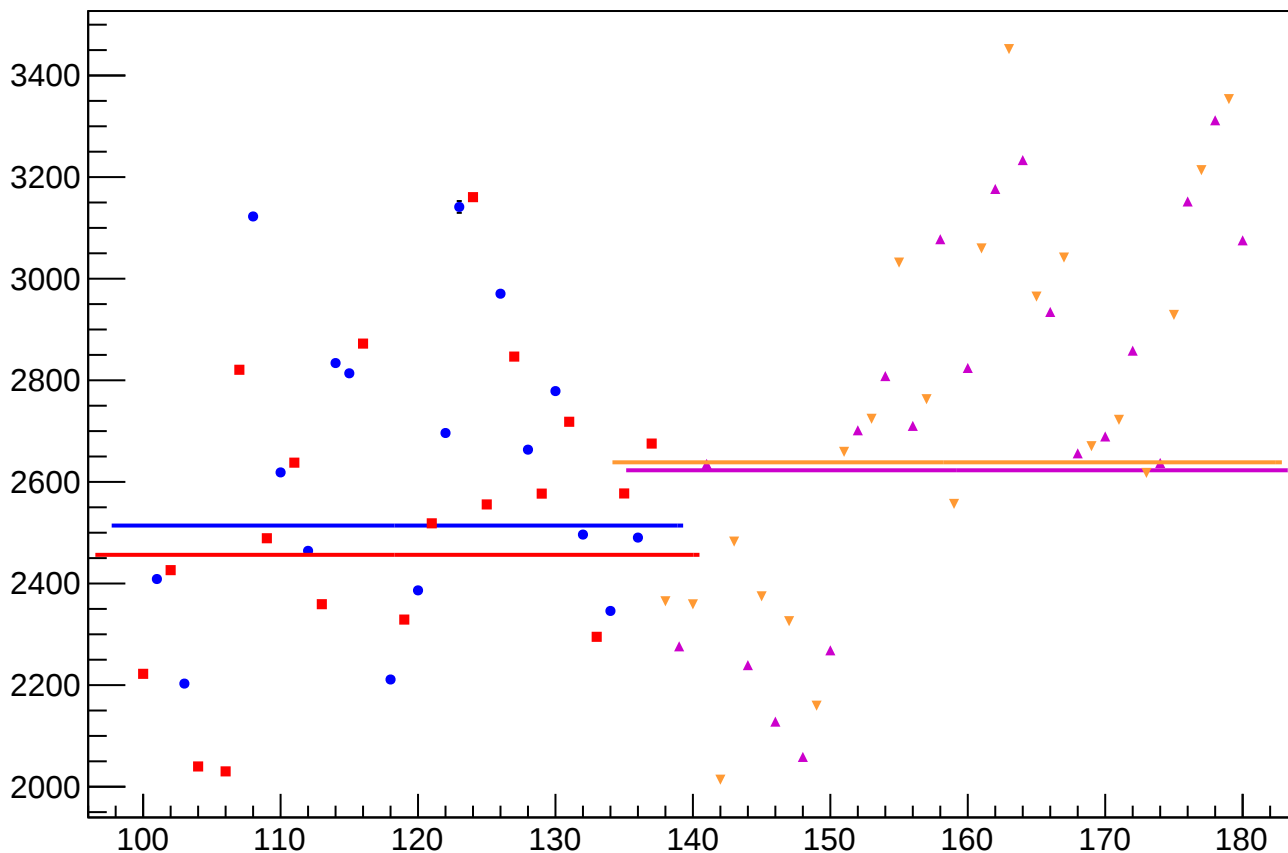
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 2.593 ± 0.546 $\chi^2/\text{NDF}: 1737.7/37$

Out: -0.039 ± 0.535 $\chi^2/\text{NDF}: 1577.5/40$

All: 1.249 ± 0.382 $\chi^2/\text{NDF}: 3327.0/78$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088+/-0.689 χ^2 /NDF: 120961.3/16

Left Out: 2638.556+/-0.463 χ^2 /NDF: 582154.1/21

Right Out: 2456.460+/-0.655 χ^2 /NDF: 149732.7/18

Left In: 2622.878+/-0.466 χ^2 /NDF: 634568.4/20

Left: 2630.771+/-0.328 χ^2 /NDF: 1217292.6/42

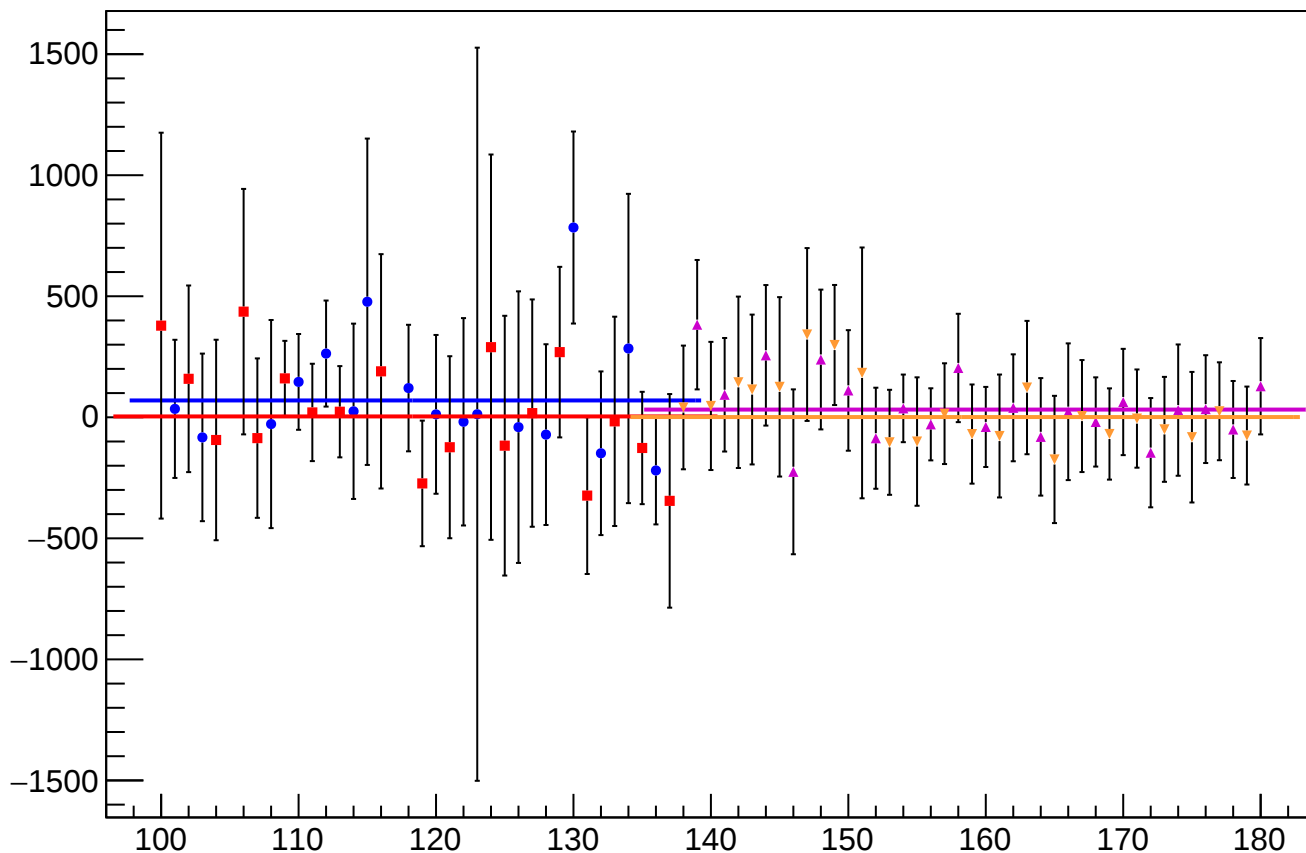
Right: 2483.827+/-0.475 χ^2 /NDF: 274364.7/35

In: 2588.763+/-0.386 χ^2 /NDF: 772629.4/37

Out: 2577.998+/-0.378 χ^2 /NDF: 783395.8/40

All: 2583.268+/-0.270 χ^2 /NDF: 1556422.2/78

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 0.982 $\pm$ 52.433 χ^2 /NDF:4.6/21

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 31.859 $\pm$ 46.605 χ^2 /NDF:6.2/20

Left: 18.232 $\pm$ 34.833 χ^2 /NDF: 11.0/42

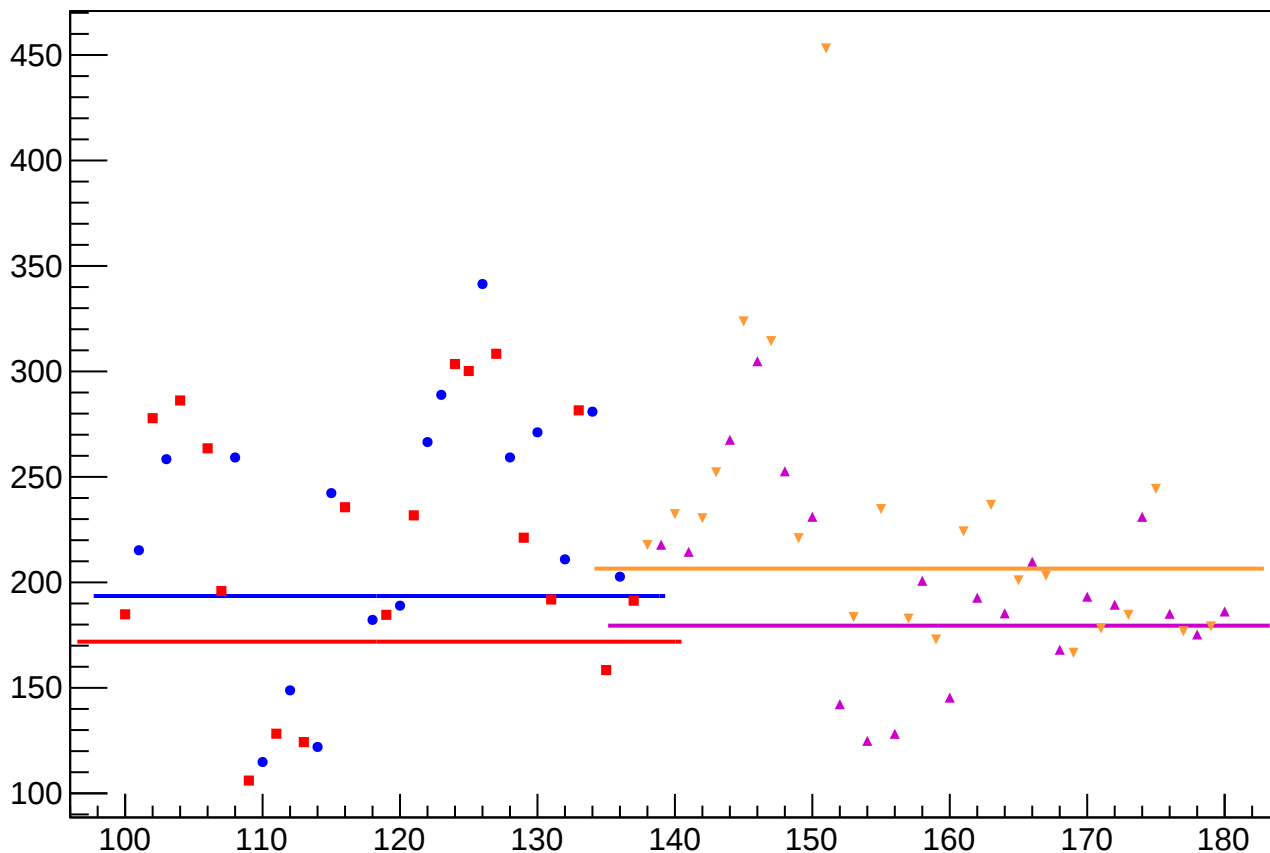
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 41.595 $\pm$ 40.143 χ^2 /NDF:13.7/37

Out: 1.910 $\pm$ 41.961 χ^2 /NDF:11.0/40

All: 22.631 $\pm$ 29.007 χ^2 /NDF: 25.2/78

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: 206.518+/-0.037 χ^2/NDF :1346017.4/21

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 179.485+/-0.033 χ^2/NDF :1592629.2/20

Left: 191.416+/-0.025 χ^2/NDF : 3235652.3/42

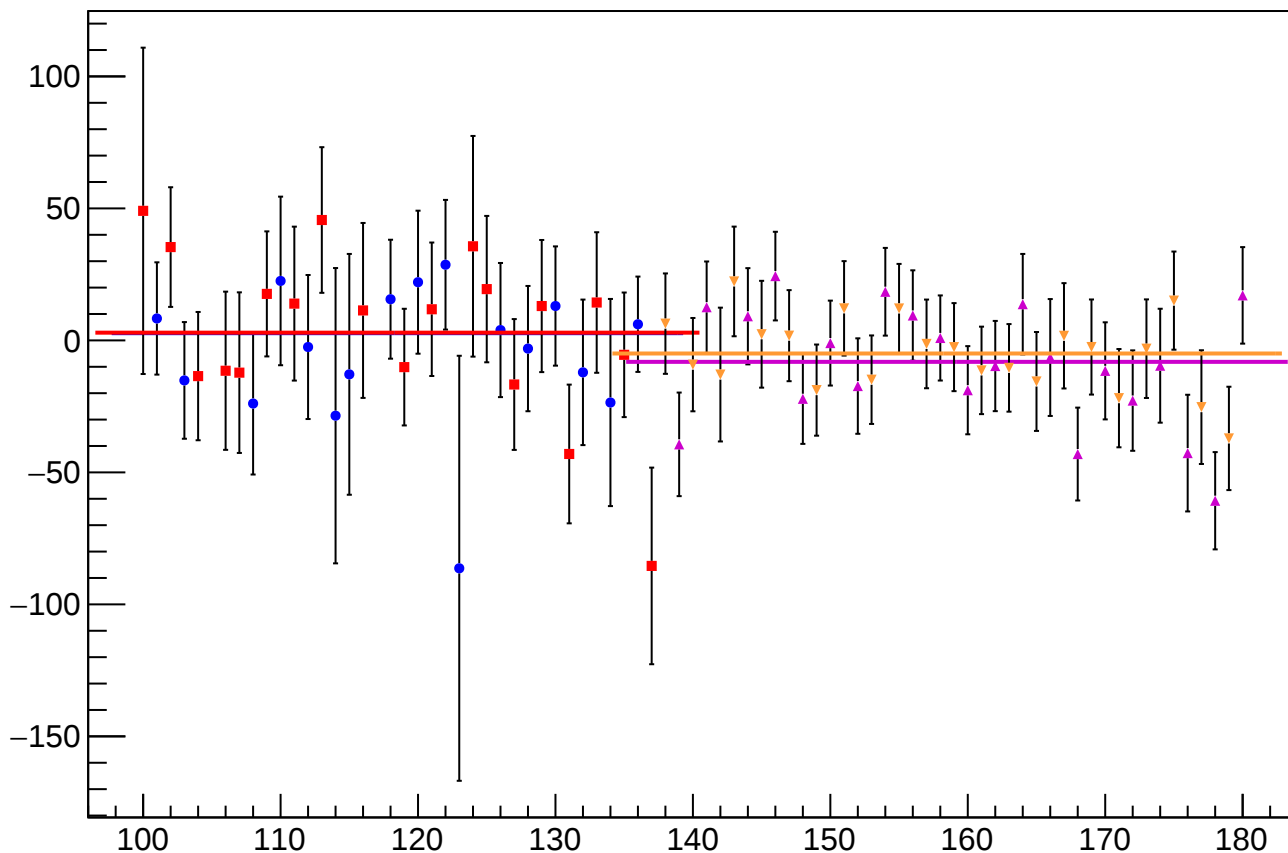
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 183.110+/-0.028 χ^2/NDF :2649952.9/37

Out: 194.072+/-0.030 χ^2/NDF :3236354.5/40

All: 188.348+/-0.021 χ^2/NDF : 5957570.3/78

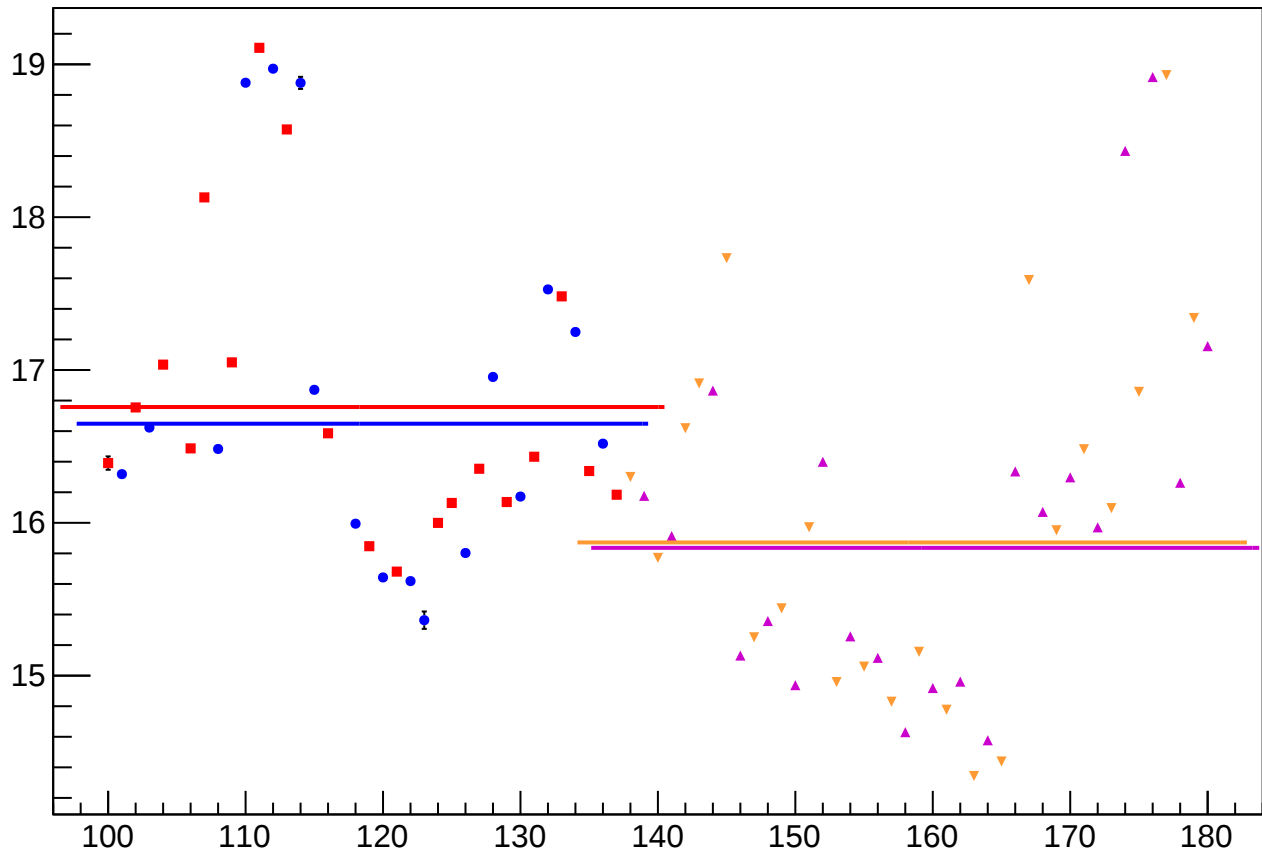
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16
 Left Out: -4.964 $\pm$ 3.908 χ^2 /NDF:11.8/21
 Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18
 Left In: -8.130 $\pm$ 3.934 χ^2 /NDF:32.5/20

Left: -6.537 $\pm$ 2.773 χ^2 /NDF: 44.6/42
 Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35
 In: -5.167 $\pm$ 3.355 χ^2 /NDF:41.3/37
 Out: -2.760 $\pm$ 3.318 χ^2 /NDF:30.7/40
 All: -3.950 $\pm$ 2.359 χ^2 /NDF: 72.3/78

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 ± 0.005 $\chi^2/\text{NDF}: 42566.9/16$

Left Out: 15.872 ± 0.003 $\chi^2/\text{NDF}: 162467.5/21$

Right Out: 16.758 ± 0.004 $\chi^2/\text{NDF}: 39950.7/18$

Left In: 15.836 ± 0.003 $\chi^2/\text{NDF}: 139555.8/20$

Left: 15.854 ± 0.002 $\chi^2/\text{NDF}: 302105.0/42$

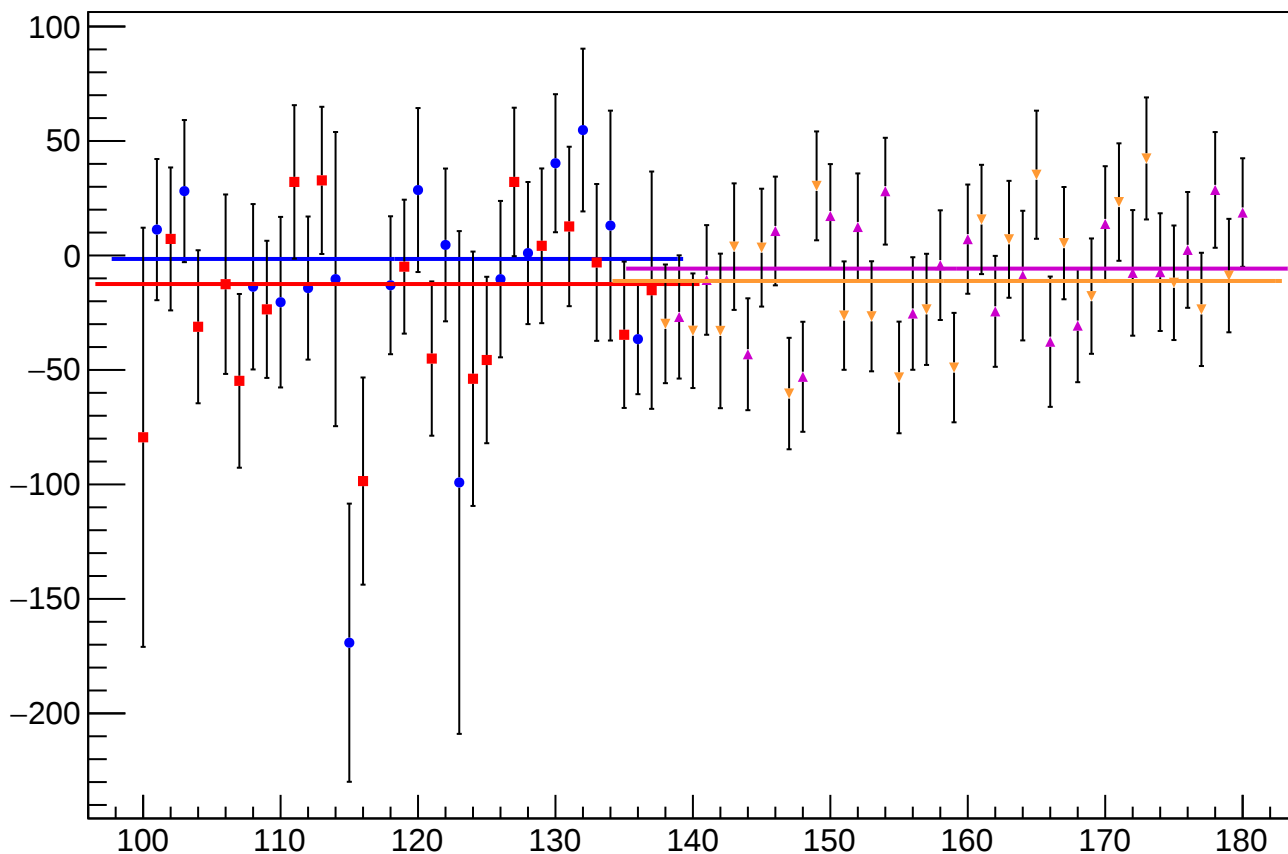
Right: 16.704 ± 0.003 $\chi^2/\text{NDF}: 82813.0/35$

In: 16.058 ± 0.002 $\chi^2/\text{NDF}: 205379.5/37$

Out: 16.119 ± 0.002 $\chi^2/\text{NDF}: 231124.6/40$

All: 16.089 ± 0.002 $\chi^2/\text{NDF}: 436842.5/78$

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 χ^2/NDF : 17.6/16

Left Out: -11.142 ± 5.386 χ^2/NDF : 27.2/21

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -5.742 ± 5.406 χ^2/NDF : 18.5/20

Left: -8.452 ± 3.815 χ^2/NDF : 46.2/42

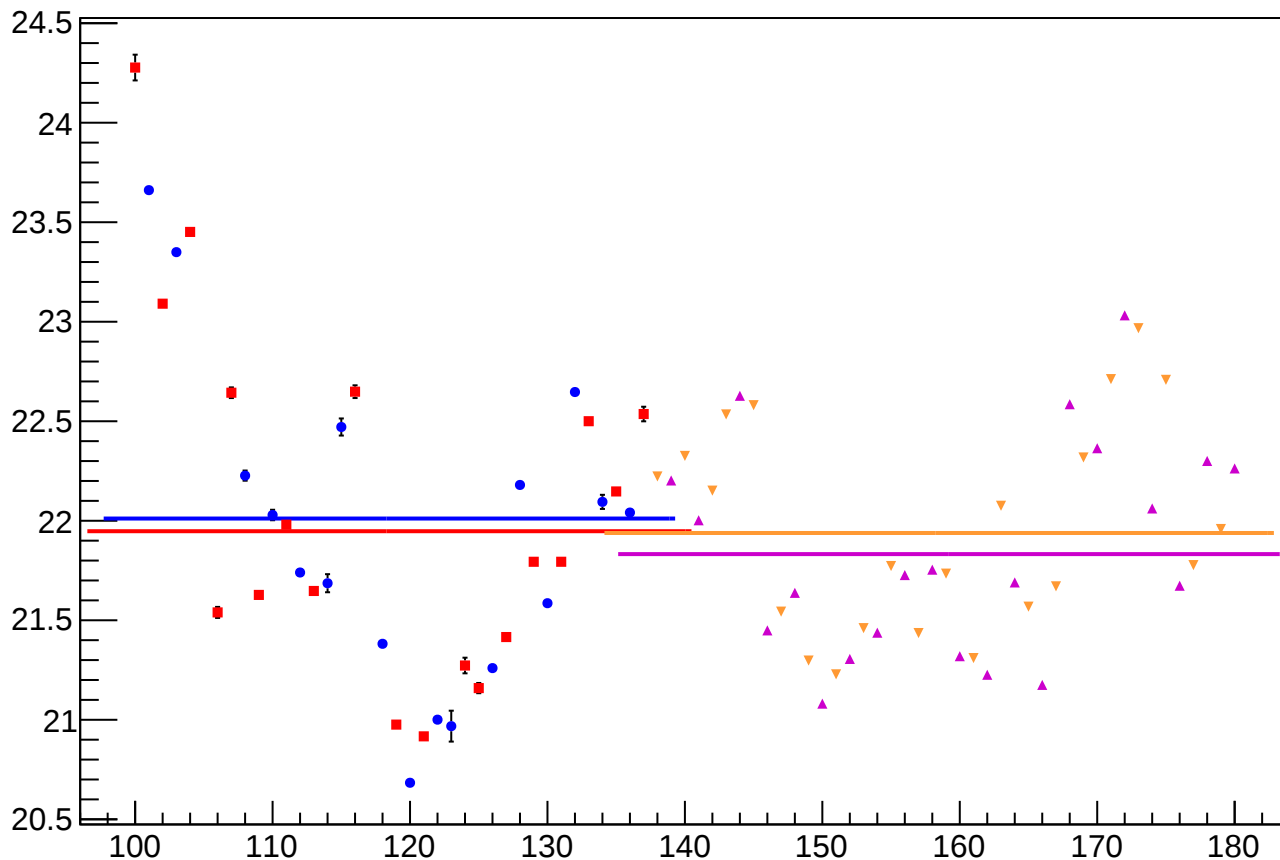
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -4.524 ± 4.559 χ^2/NDF : 36.3/37

Out: -11.543 ± 4.503 χ^2/NDF : 42.8/40

All: -8.077 ± 3.204 χ^2/NDF : 80.3/78

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011+/-0.006 χ^2/NDF : 17546.9/16

Left Out: 21.939+/-0.004 χ^2/NDF : 17904.0/21

Right Out: 21.947+/-0.006 χ^2/NDF : 16592.7/18

Left In: 21.832+/-0.004 χ^2/NDF : 18540.5/20

Left: 21.886+/-0.003 χ^2/NDF : 36831.1/42

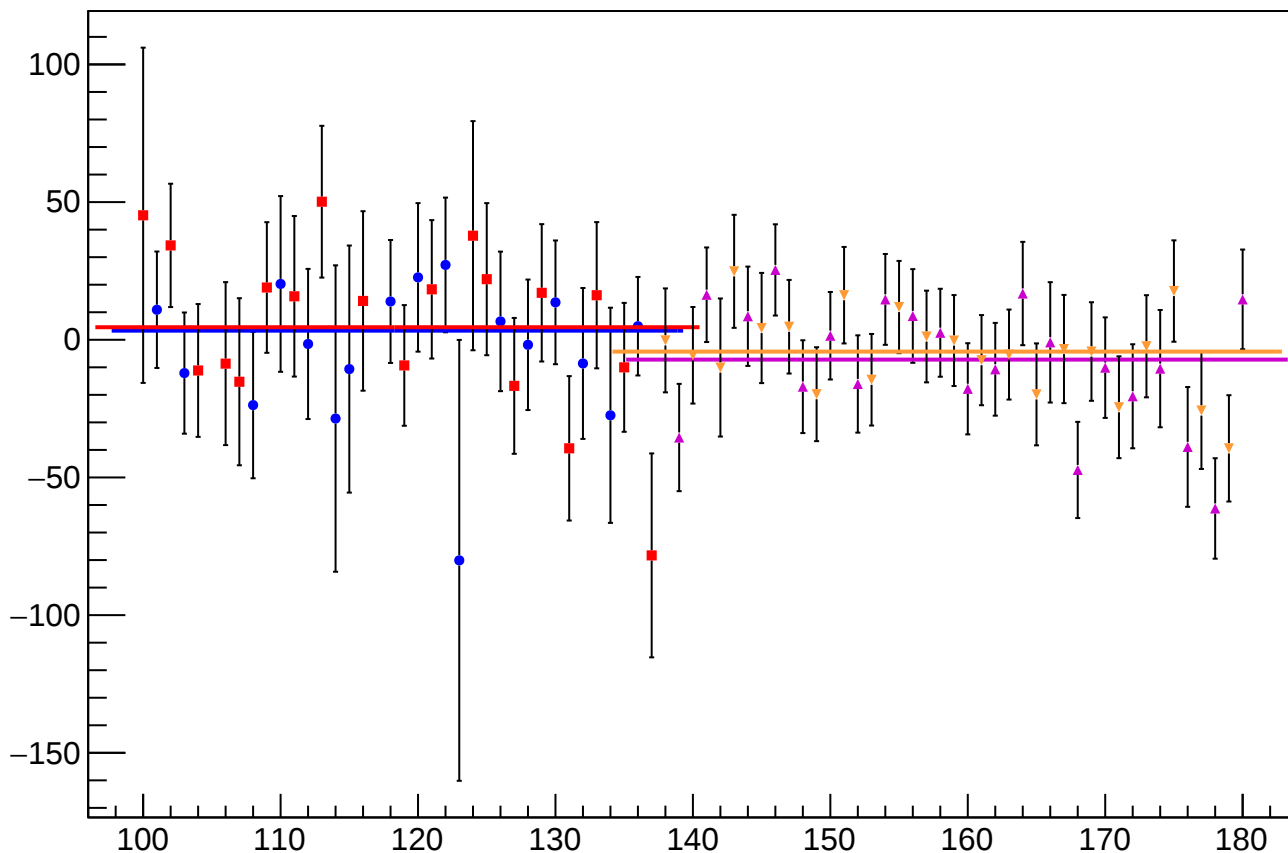
Right: 21.978+/-0.004 χ^2/NDF : 34197.9/35

In: 21.884+/-0.003 χ^2/NDF : 36718.4/37

Out: 21.941+/-0.003 χ^2/NDF : 34498.3/40

All: 21.913+/-0.002 χ^2/NDF : 71376.0/78

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 ± 6.388 $\chi^2/\text{NDF}: 6.3/16$

Left Out: -4.297 ± 3.866 $\chi^2/\text{NDF}: 14.0/21$

Right Out: 4.561 ± 6.244 $\chi^2/\text{NDF}: 17.7/18$

Left In: -7.200 ± 3.892 $\chi^2/\text{NDF}: 32.8/20$

Left: -5.739 ± 2.743 $\chi^2/\text{NDF}: 47.1/42$

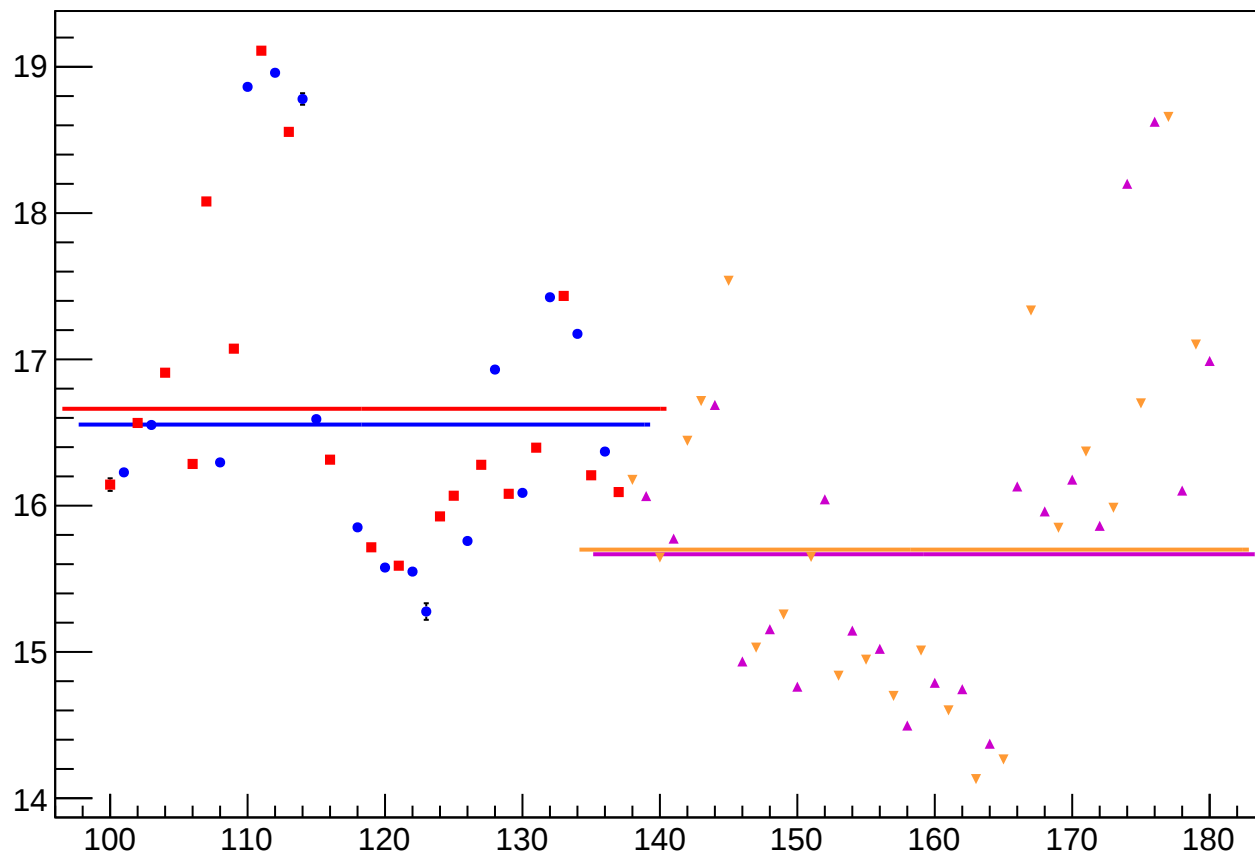
Right: 3.953 ± 4.465 $\chi^2/\text{NDF}: 24.0/35$

In: -4.353 ± 3.323 $\chi^2/\text{NDF}: 41.1/37$

Out: -1.842 ± 3.287 $\chi^2/\text{NDF}: 33.1/40$

All: -3.084 ± 2.337 $\chi^2/\text{NDF}: 74.5/78$

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: 15.700 $\pm$ 0.003 χ^2/NDF : 161220.3/21

Right Out: 16.662 $\pm$ 0.004 χ^2/NDF : 43063.6/18

Left In: 15.668 $\pm$ 0.003 χ^2/NDF : 137508.3/20

Left: 15.684 $\pm$ 0.002 χ^2/NDF : 298795.8/42

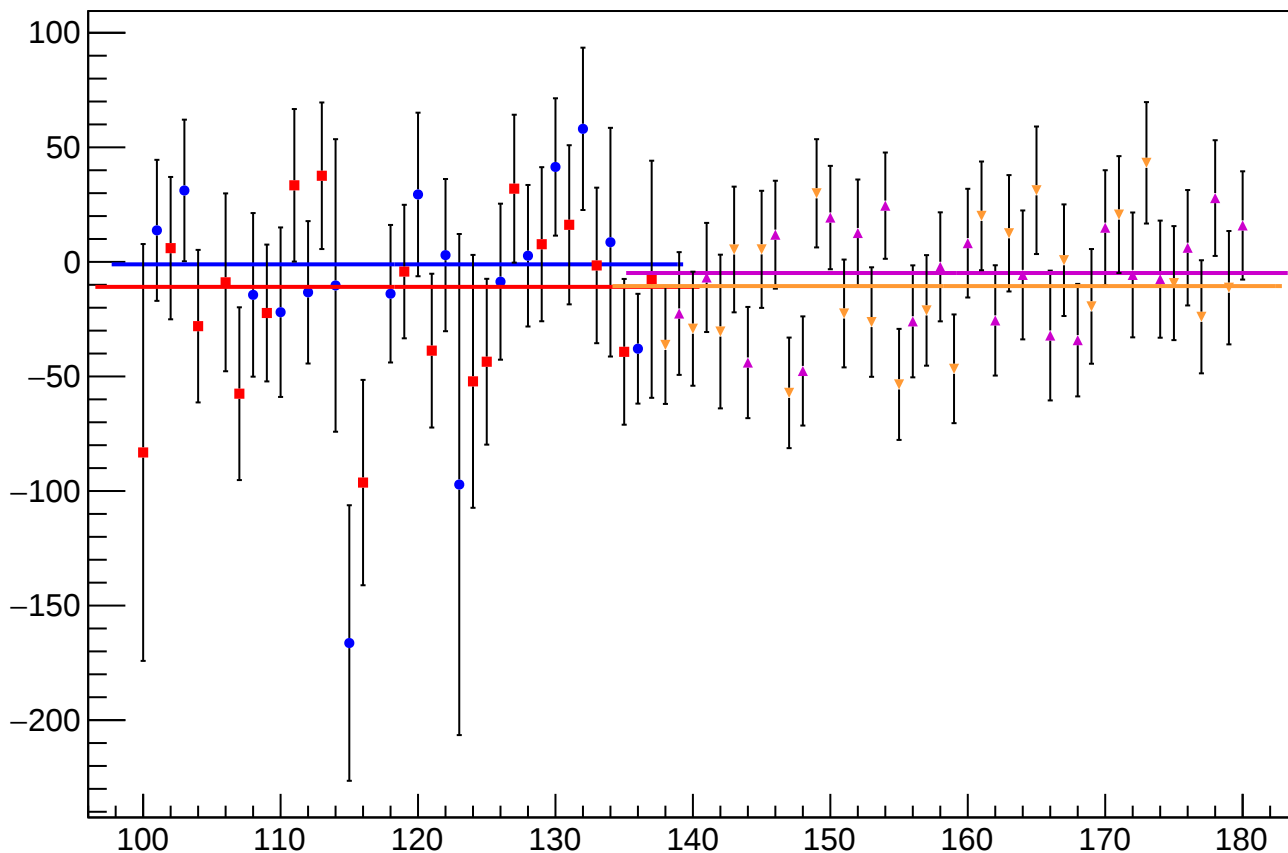
Right: 16.610 $\pm$ 0.003 χ^2/NDF : 87830.7/35

In: 15.908 $\pm$ 0.002 χ^2/NDF : 210079.5/37

Out: 15.966 $\pm$ 0.002 χ^2/NDF : 238659.7/40

All: 15.937 $\pm$ 0.002 χ^2/NDF : 449053.7/78

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 $\chi^2/\text{NDF}: 18.5/16$

Left Out: -10.556 ± 5.354 $\chi^2/\text{NDF}: 26.6/21$

Right Out: -10.900 ± 8.169 $\chi^2/\text{NDF}: 16.2/18$

Left In: -4.850 ± 5.376 $\chi^2/\text{NDF}: 17.5/20$

Left: -7.715 ± 3.794 $\chi^2/\text{NDF}: 44.7/42$

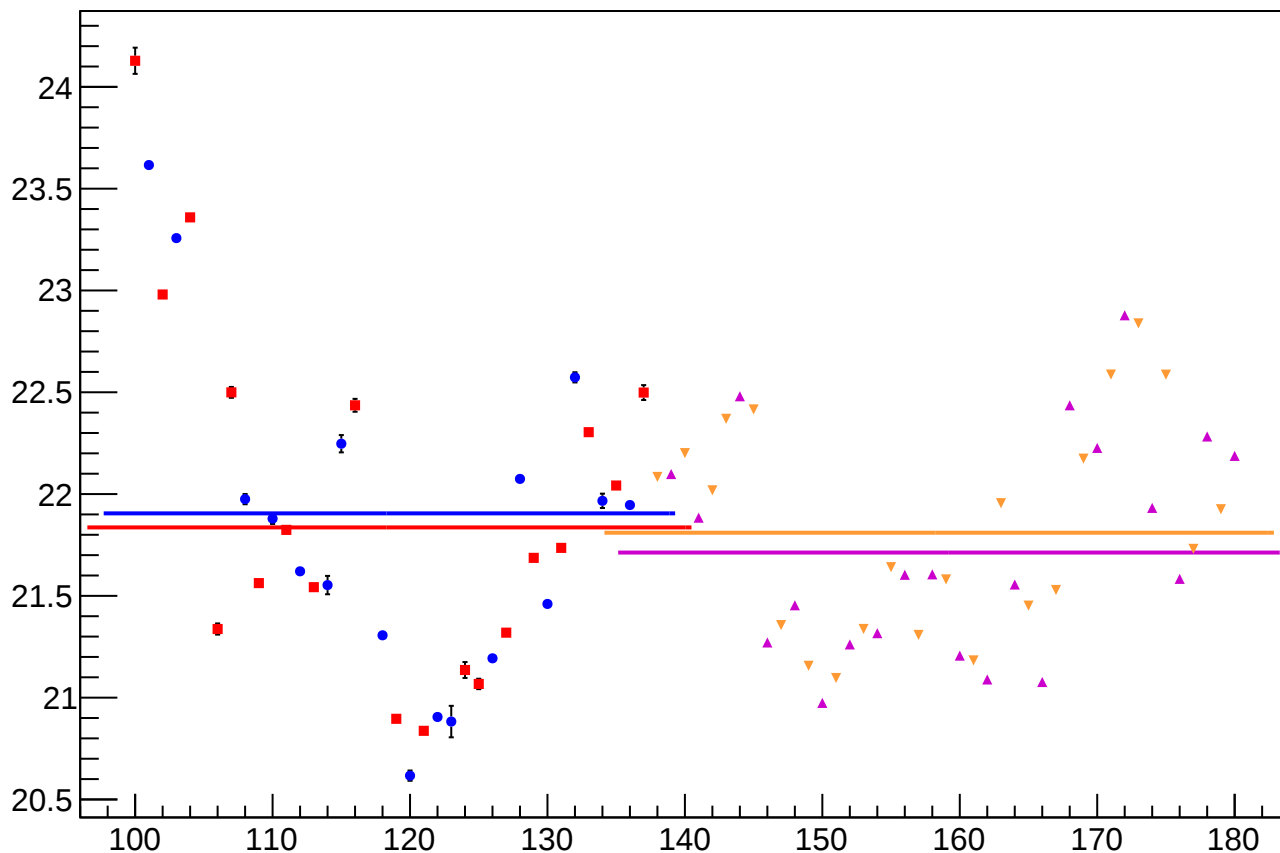
Right: -6.147 ± 5.871 $\chi^2/\text{NDF}: 35.4/35$

In: -3.759 ± 4.535 $\chi^2/\text{NDF}: 36.1/37$

Out: -10.659 ± 4.478 $\chi^2/\text{NDF}: 42.9/40$

All: -7.253 ± 3.186 $\chi^2/\text{NDF}: 80.2/78$

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: 21.810 $\pm$ 0.004 χ^2 /NDF: 18123.8/21

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.713 $\pm$ 0.004 χ^2 /NDF: 18596.1/20

Left: 21.762 $\pm$ 0.003 χ^2 /NDF: 37049.7/42

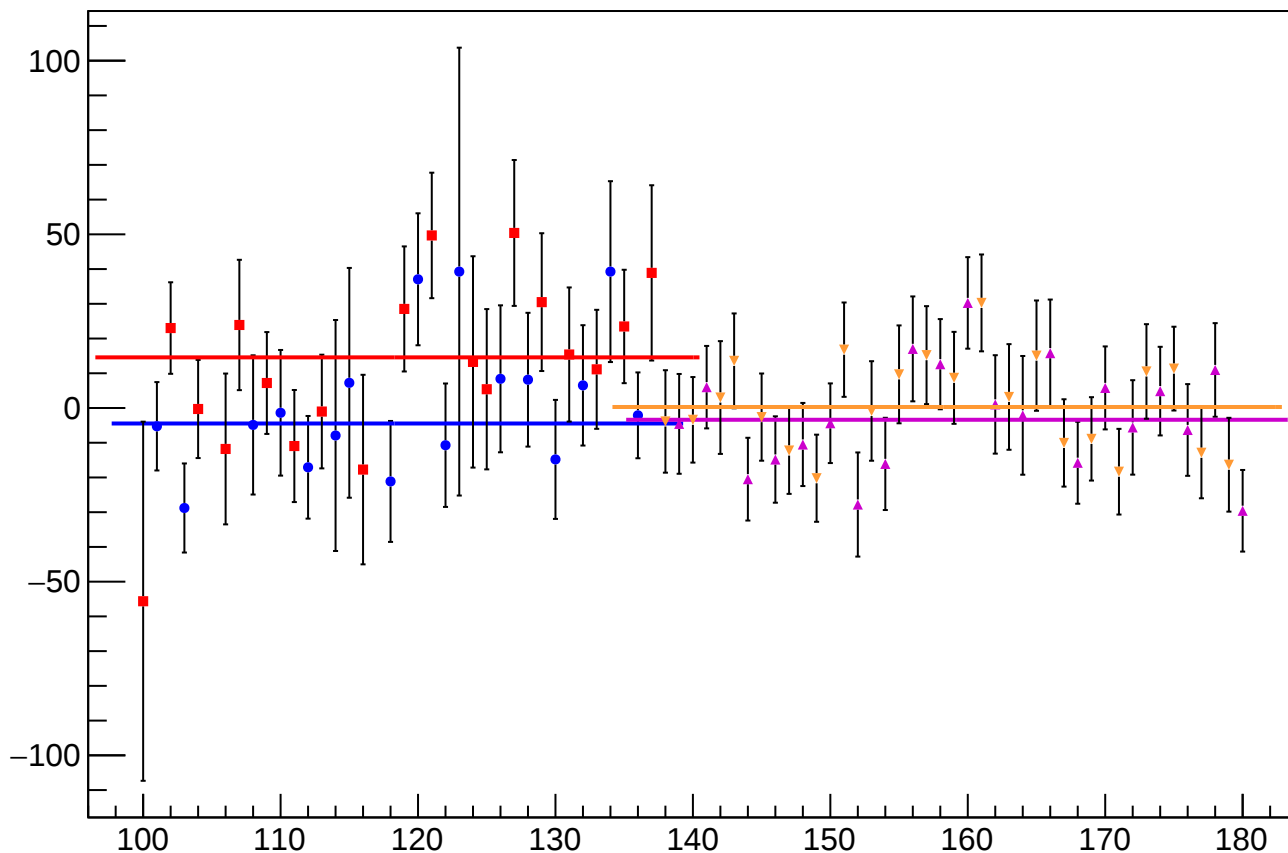
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.768 $\pm$ 0.003 χ^2 /NDF: 37129.5/37

Out: 21.818 $\pm$ 0.003 χ^2 /NDF: 34389.2/40

All: 21.793 $\pm$ 0.002 χ^2 /NDF: 71640.6/78

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: 0.290 ± 2.859 χ^2/NDF : 21.3/21

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -3.389 ± 2.851 χ^2/NDF : 27.3/20

Left: -1.555 ± 2.019 χ^2/NDF : 49.4/42

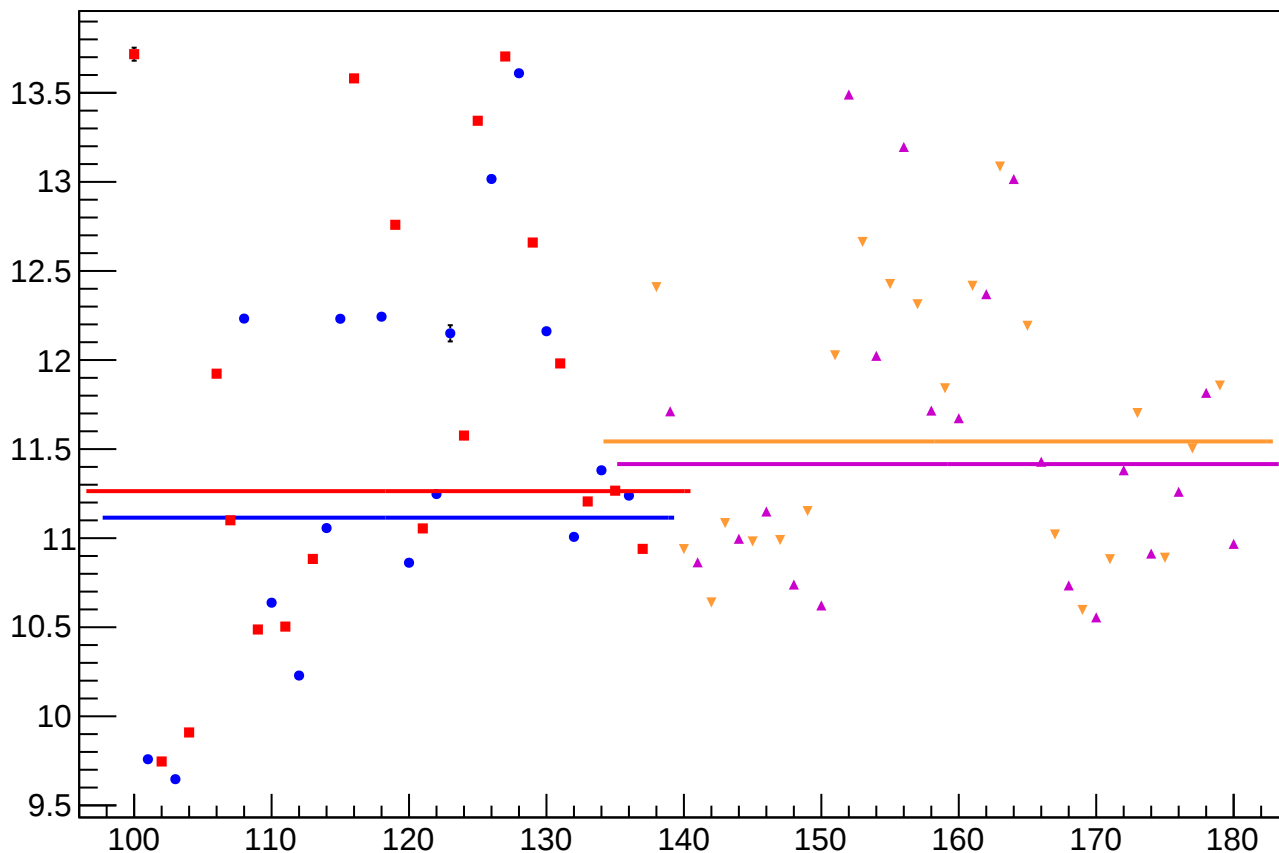
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -3.713 ± 2.381 χ^2/NDF : 42.5/37

Out: 4.721 ± 2.374 χ^2/NDF : 48.6/40

All: 0.515 ± 1.681 χ^2/NDF : 97.4/78

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2/NDF : 133059.3/16

Left Out: 11.543 $\pm$ 0.002 χ^2/NDF : 120261.3/21

Right Out: 11.264 $\pm$ 0.003 χ^2/NDF : 147483.5/18

Left In: 11.416 $\pm$ 0.002 χ^2/NDF : 148335.3/20

Left: 11.479 $\pm$ 0.001 χ^2/NDF : 270581.3/42

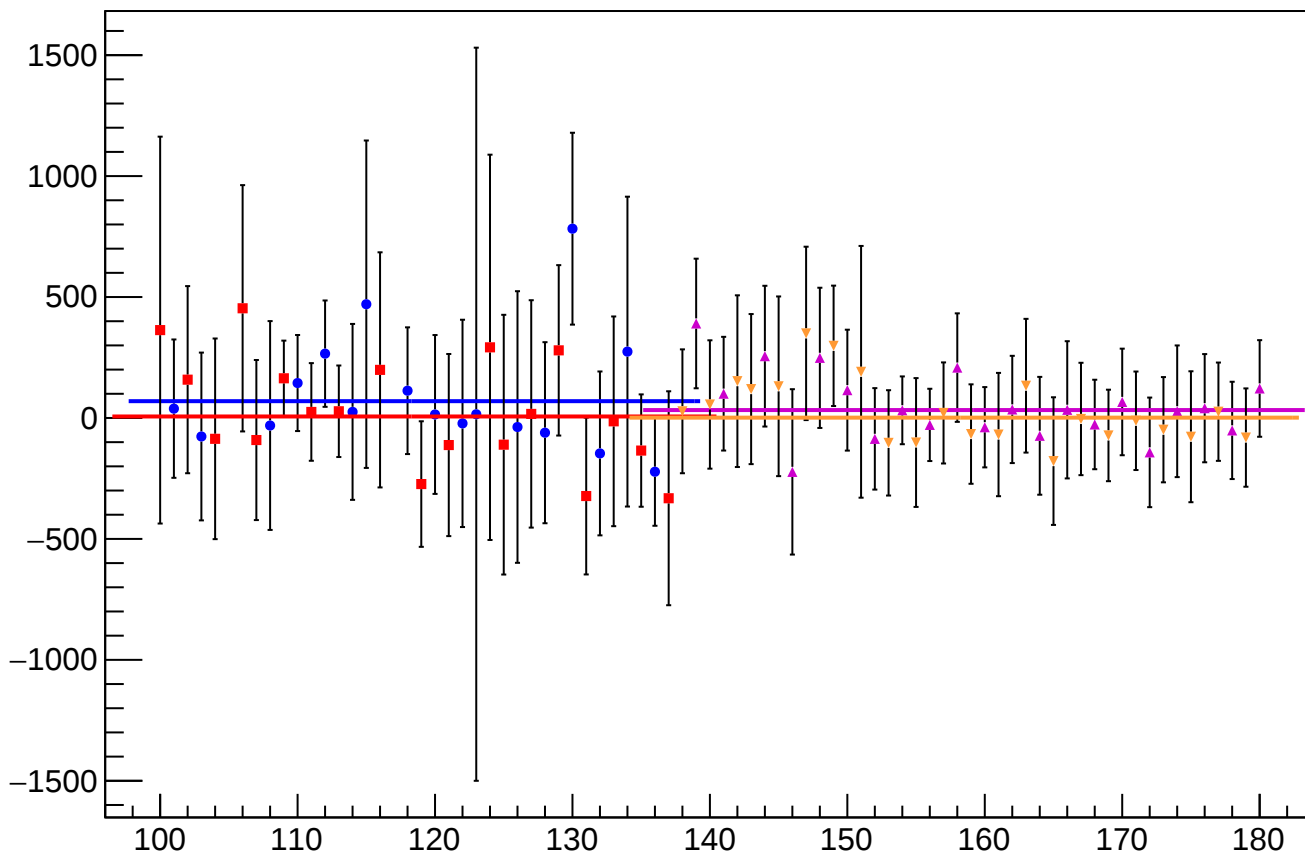
Right: 11.191 $\pm$ 0.002 χ^2/NDF : 281744.0/35

In: 11.325 $\pm$ 0.002 χ^2/NDF : 288130.5/37

Out: 11.456 $\pm$ 0.002 χ^2/NDF : 273654.6/40

All: 11.391 $\pm$ 0.001 χ^2/NDF : 564850.1/78

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 $\pm$ 79.231 χ^2 /NDF: 7.3/16

Left Out: 1.358 $\pm$ 52.627 χ^2 /NDF:4.7/21

Right Out: 6.194 $\pm$ 70.182 χ^2 /NDF: 6.5/18

Left In: 32.724 $\pm$ 46.769 χ^2 /NDF:6.3/20

Left: 18.883 $\pm$ 34.959 χ^2 /NDF: 11.2/42

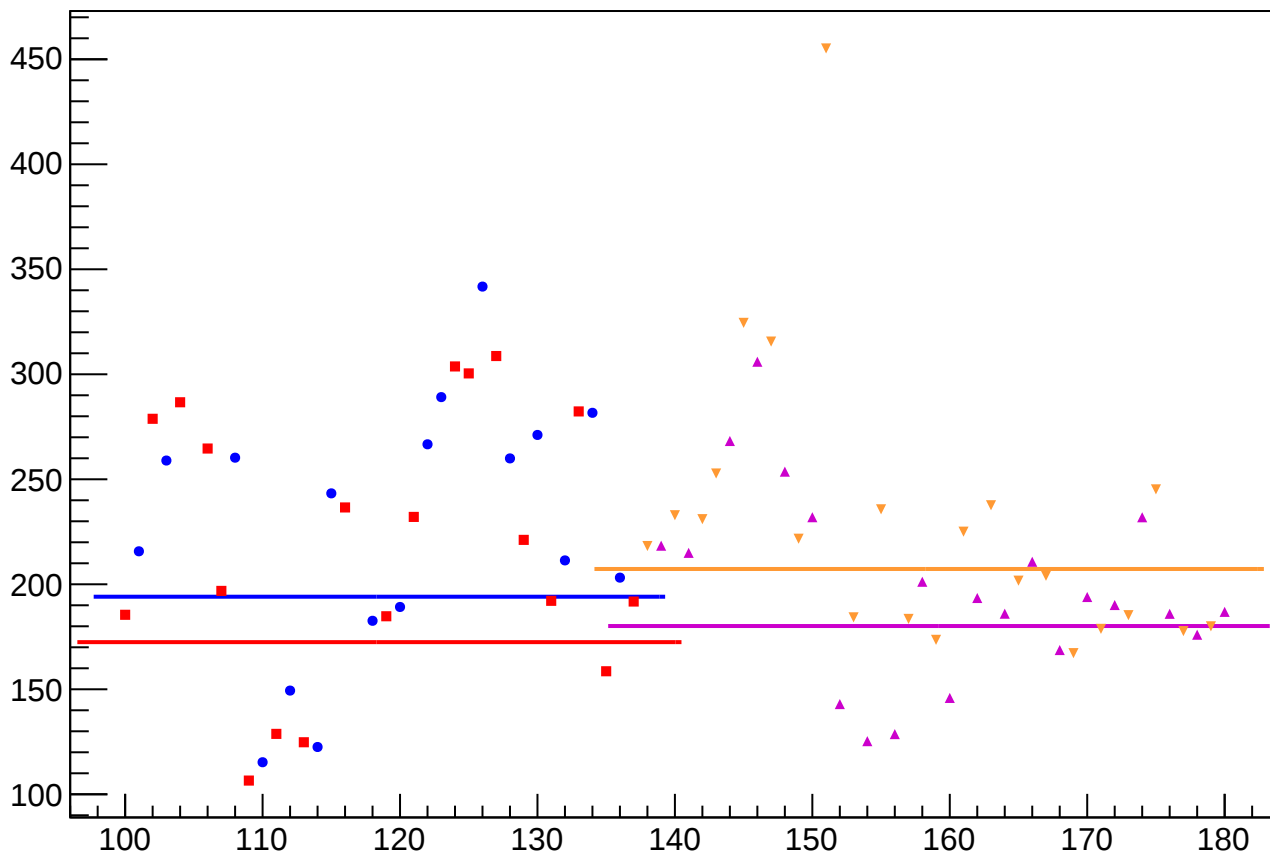
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 42.219 $\pm$ 40.276 χ^2 /NDF:13.7/37

Out: 3.098 $\pm$ 42.104 χ^2 /NDF:11.2/40

All: 23.527 $\pm$ 29.104 χ^2 /NDF: 25.3/78

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: 207.289 $\pm$ 0.037 χ^2 /NDF:1343514.5/21

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 180.124 $\pm$ 0.033 χ^2 /NDF:1590923.2/20

Left: 192.111 $\pm$ 0.025 χ^2 /NDF: 3232182.4/42

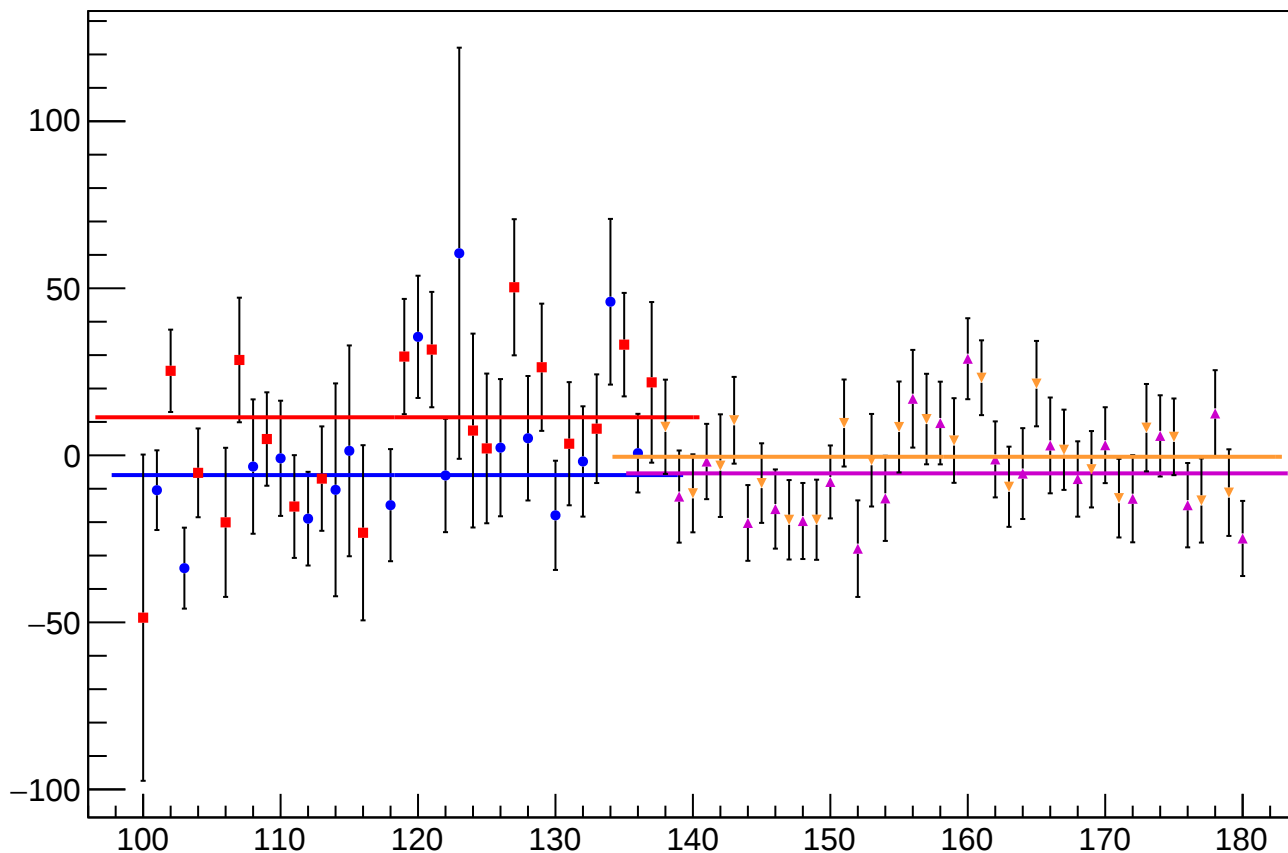
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.731 $\pm$ 0.028 χ^2 /NDF:2642347.3/37

Out: 194.751 $\pm$ 0.030 χ^2 /NDF:3228411.9/40

All: 188.996 $\pm$ 0.021 χ^2 /NDF: 5942303.0/78

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: -0.431 ± 2.670 χ^2/NDF : 21.0/21

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.396 ± 2.677 χ^2/NDF : 26.8/20

Left: -2.906 ± 1.891 χ^2/NDF : 49.6/42

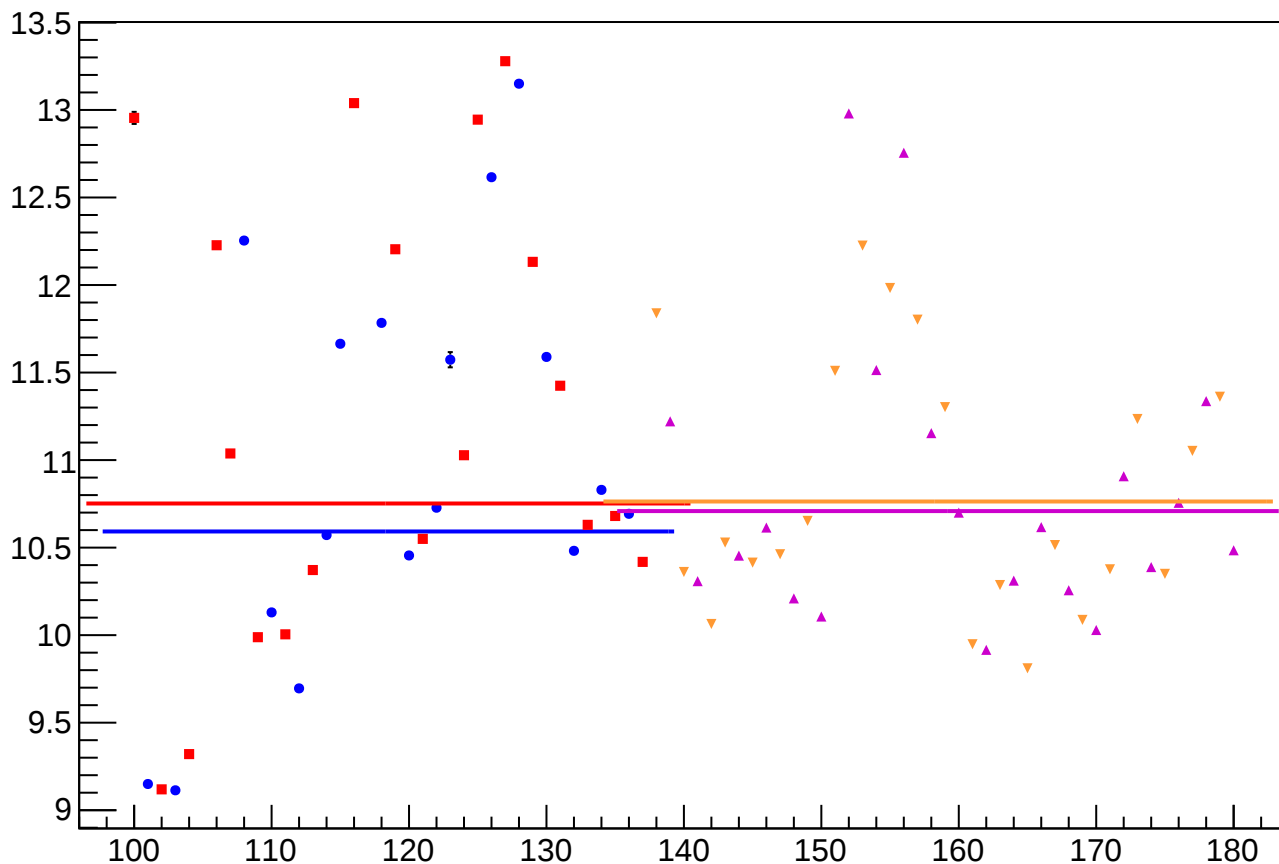
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.548 ± 2.247 χ^2/NDF : 45.7/37

Out: 3.115 ± 2.234 χ^2/NDF : 49.7/40

All: -1.191 ± 1.584 χ^2/NDF : 102.9/78

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: 10.763 $\pm$ 0.002 χ^2/NDF :127633.0/21

Right Out: 10.752 $\pm$ 0.003 χ^2/NDF : 176895.3/18

Left In: 10.709 $\pm$ 0.002 χ^2/NDF :144746.4/20

Left: 10.736 $\pm$ 0.001 χ^2/NDF : 272799.8/42

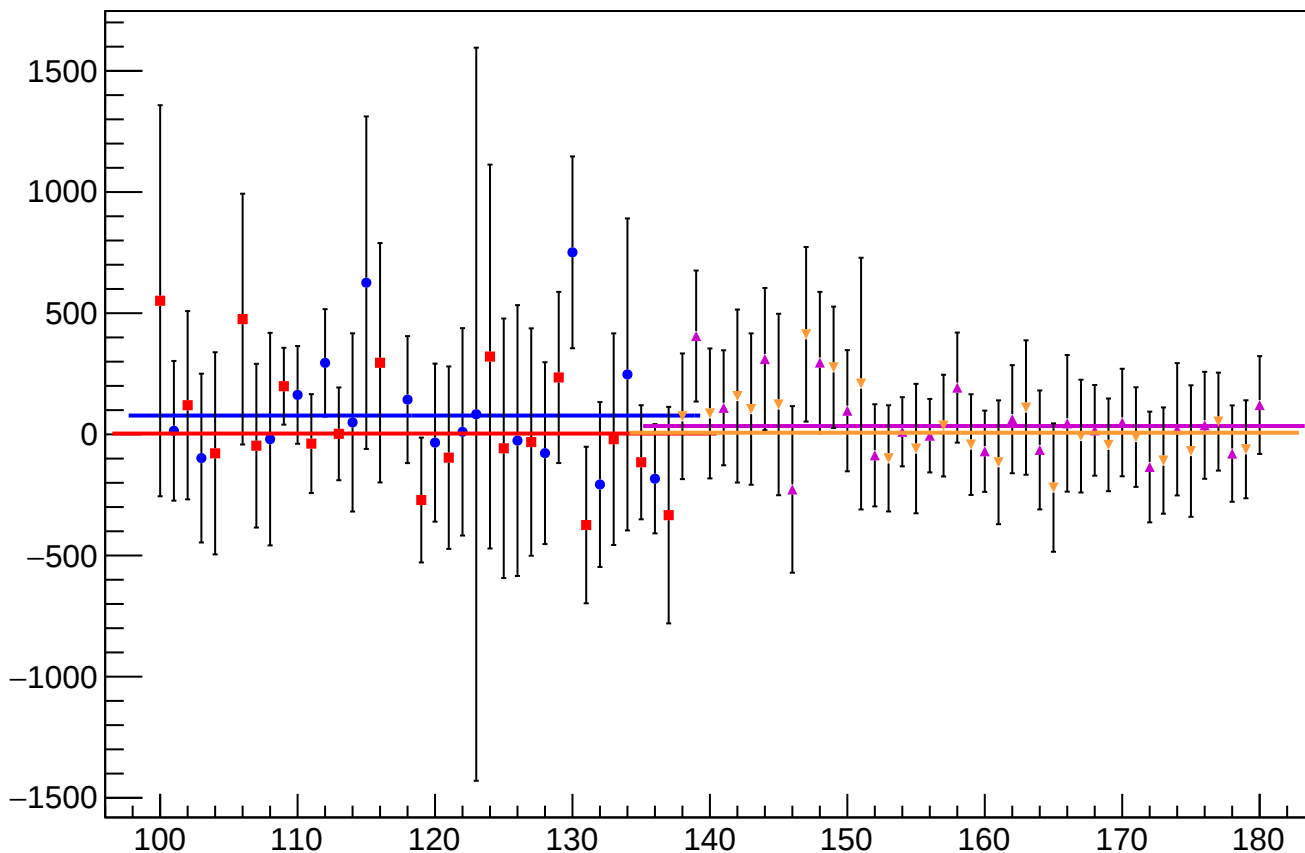
Right: 10.673 $\pm$ 0.002 χ^2/NDF : 338807.3/35

In: 10.674 $\pm$ 0.002 χ^2/NDF :306261.6/37

Out: 10.760 $\pm$ 0.002 χ^2/NDF :304539.3/40

All: 10.717 $\pm$ 0.001 χ^2/NDF : 612267.1/78

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589+/-79.751 χ^2/NDF : 7.6/16

Left Out: 6.665+/-52.898 χ^2/NDF : 5.2/21

Right Out: 3.305+/-70.855 χ^2/NDF : 7.4/18

Left In: 34.370+/-47.120 χ^2/NDF : 6.9/20

Left: 22.113+/-35.185 χ^2/NDF : 12.2/42

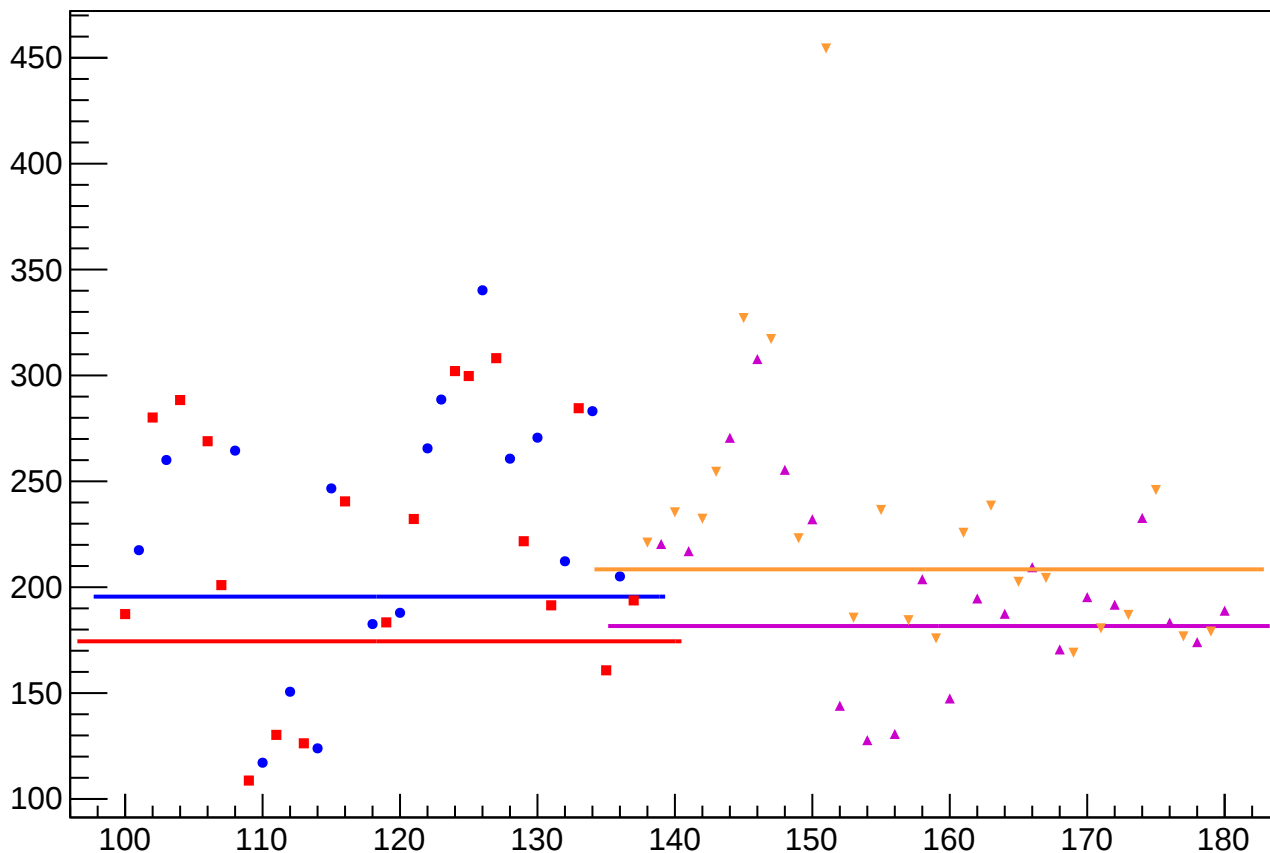
Right: 36.075+/-52.969 χ^2/NDF : 15.4/35

In: 45.554+/-40.568 χ^2/NDF : 14.6/37

Out: 5.463+/-42.388 χ^2/NDF : 12.5/40

All: 26.387+/-29.308 χ^2/NDF : 27.7/78

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: 208.432+/-0.037 χ^2/NDF :1339535.2/21

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 181.666+/-0.033 χ^2/NDF :1545490.4/20

Left: 193.508+/-0.025 χ^2/NDF : 3170539.7/42

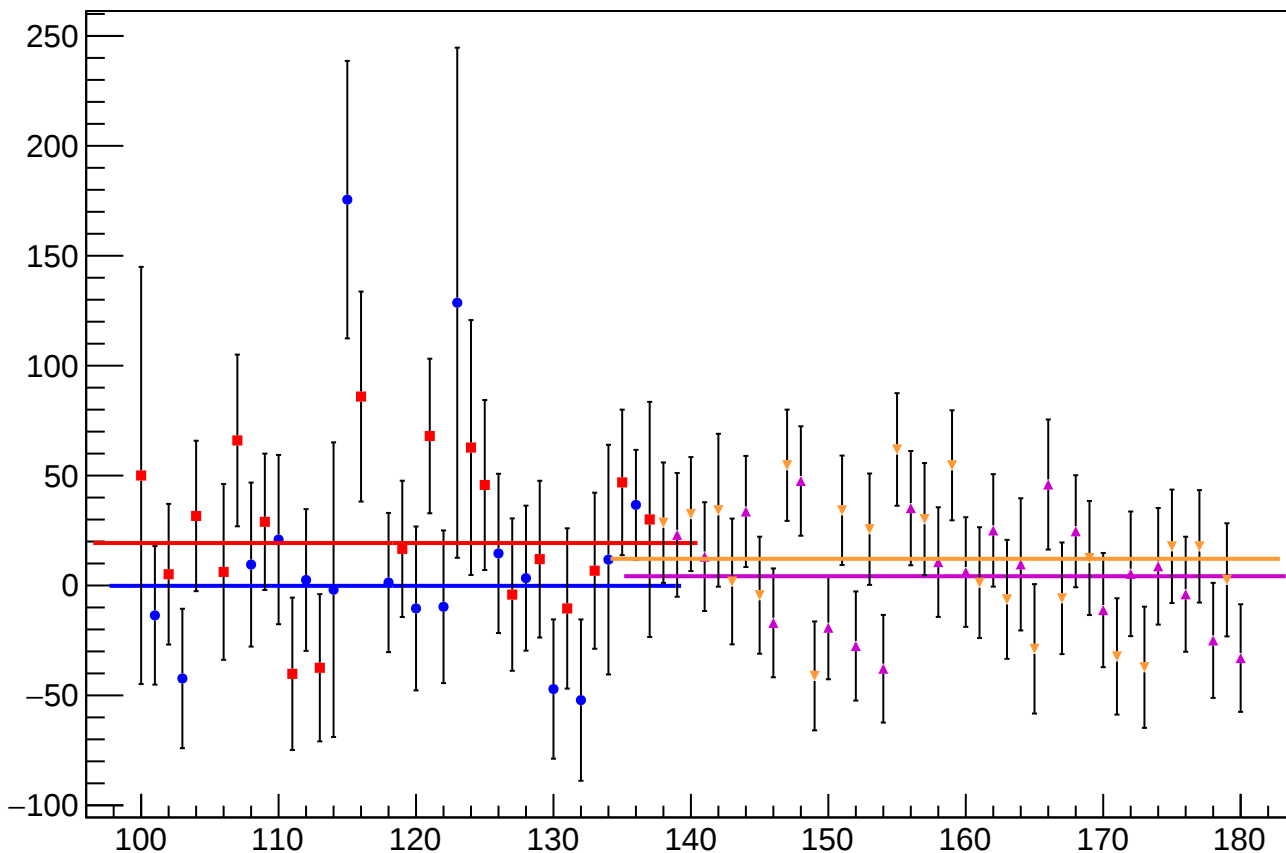
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 185.259+/-0.029 χ^2/NDF :2570368.8/37

Out: 196.270+/-0.030 χ^2/NDF :3163566.3/40

All: 190.523+/-0.021 χ^2/NDF : 5804373.8/78

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: 12.132 ± 5.615 χ^2/NDF : 26.9/21

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 4.209 ± 5.629 χ^2/NDF : 20.1/20

Left: 8.180 ± 3.975 χ^2/NDF : 48.1/42

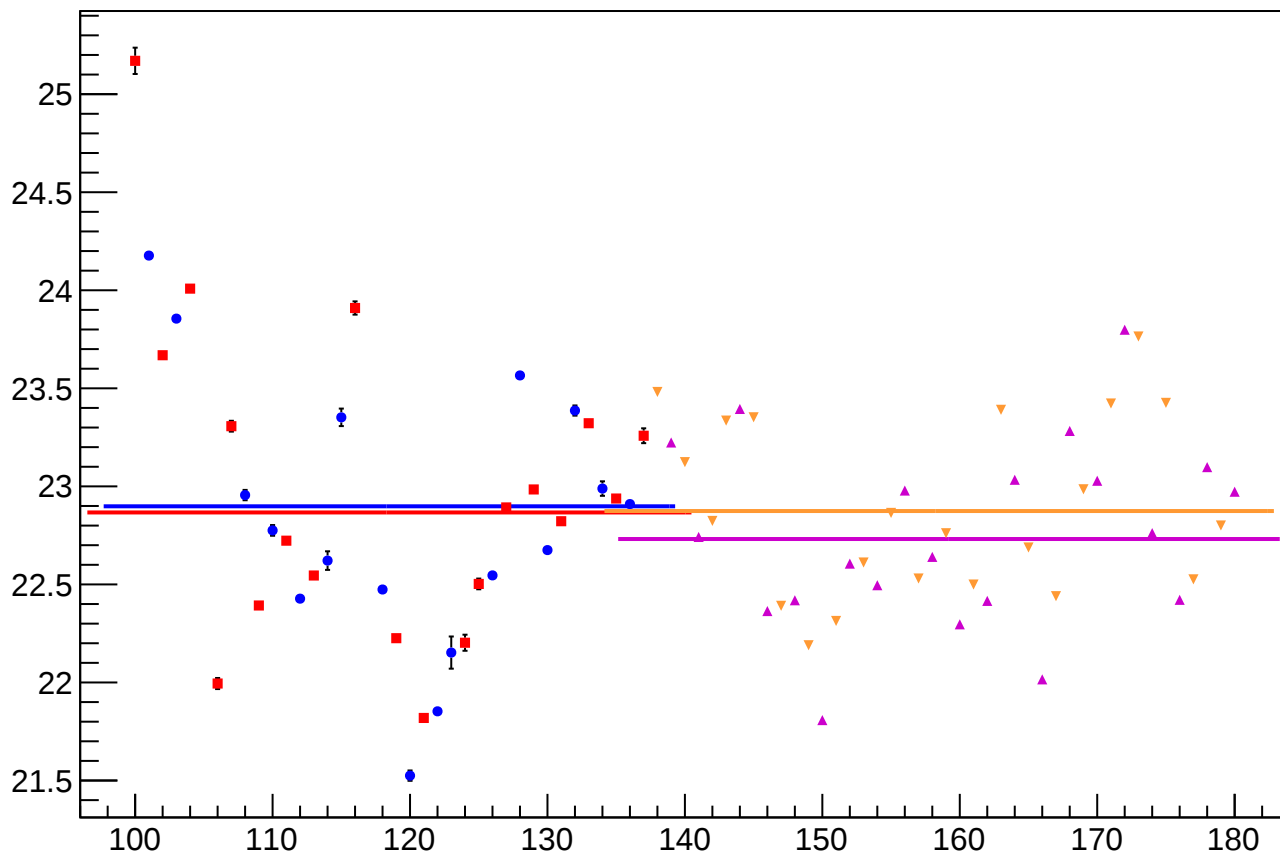
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 2.946 ± 4.746 χ^2/NDF : 38.4/37

Out: 14.295 ± 4.694 χ^2/NDF : 42.2/40

All: 8.683 ± 3.337 χ^2/NDF : 83.5/78

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: 22.874 $\pm$ 0.004 χ^2 /NDF:12341.4/21

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.732 $\pm$ 0.004 χ^2 /NDF:13477.7/20

Left: 22.803 $\pm$ 0.003 χ^2 /NDF: 26463.3/42

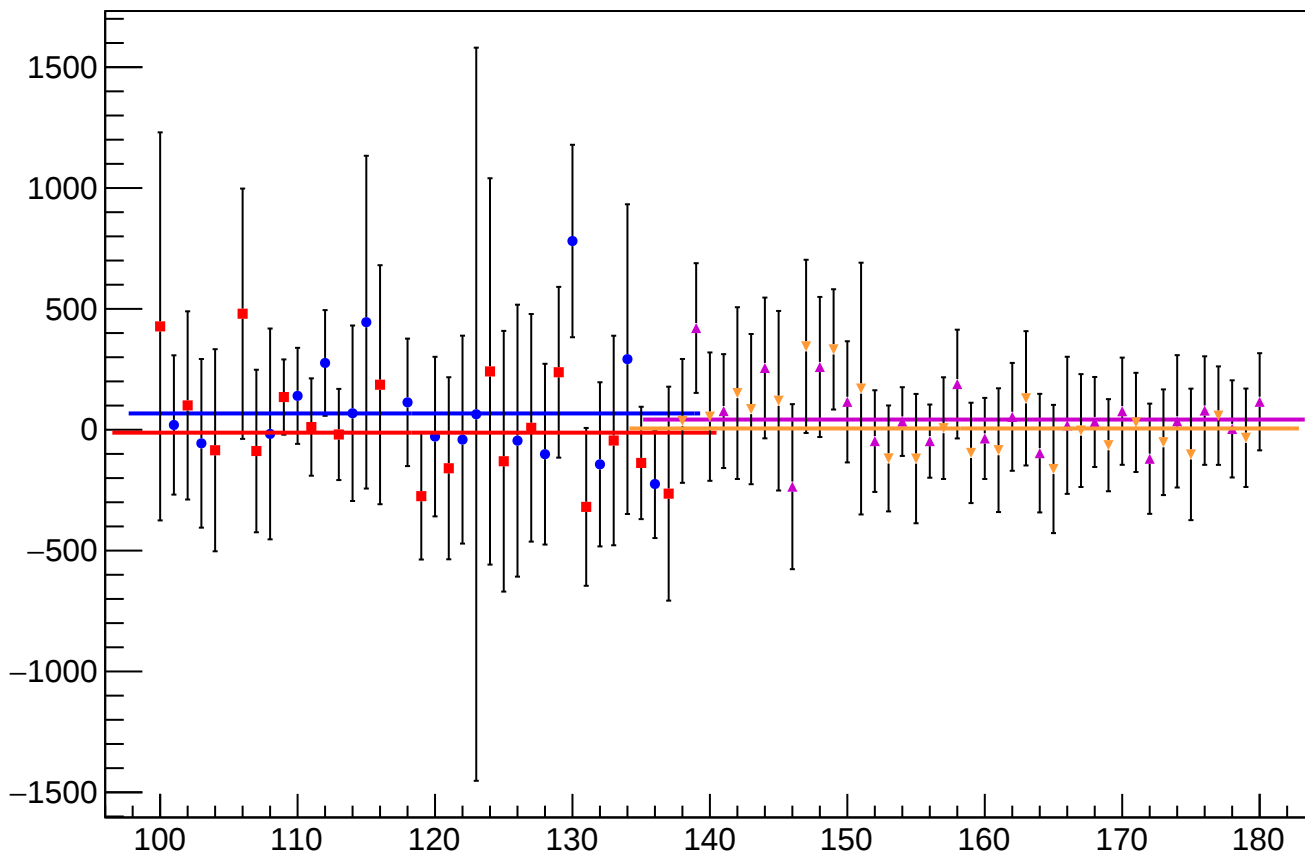
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.780 $\pm$ 0.003 χ^2 /NDF:26128.8/37

Out: 22.872 $\pm$ 0.003 χ^2 /NDF:23390.8/40

All: 22.826 $\pm$ 0.002 χ^2 /NDF: 49901.9/78

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: 5.275 $\pm$ 52.860 χ^2 /NDF:5.1/21

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 42.167 $\pm$ 47.069 χ^2 /NDF:6.1/20

Left: 25.851 $\pm$ 35.153 χ^2 /NDF: 11.5/42

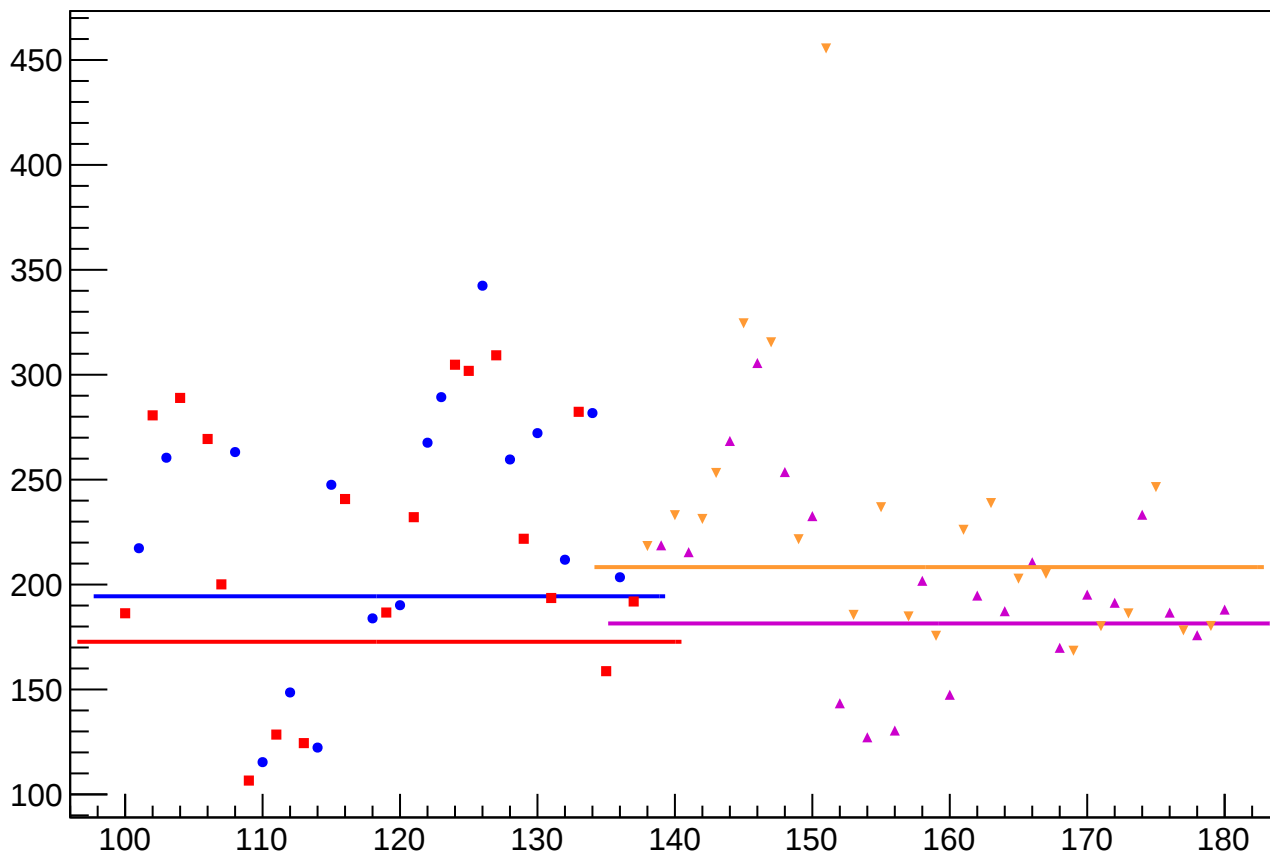
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 48.741 $\pm$ 40.490 χ^2 /NDF:13.6/37

Out: -1.001 $\pm$ 42.261 χ^2 /NDF:10.9/40

All: 24.934 $\pm$ 29.237 χ^2 /NDF: 25.1/78

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 208.315 $\pm$ 0.037 χ^2 /NDF:1321910.5/21

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 181.463 $\pm$ 0.033 χ^2 /NDF:1537718.5/20

Left: 193.338 $\pm$ 0.025 χ^2 /NDF: 3147481.8/42

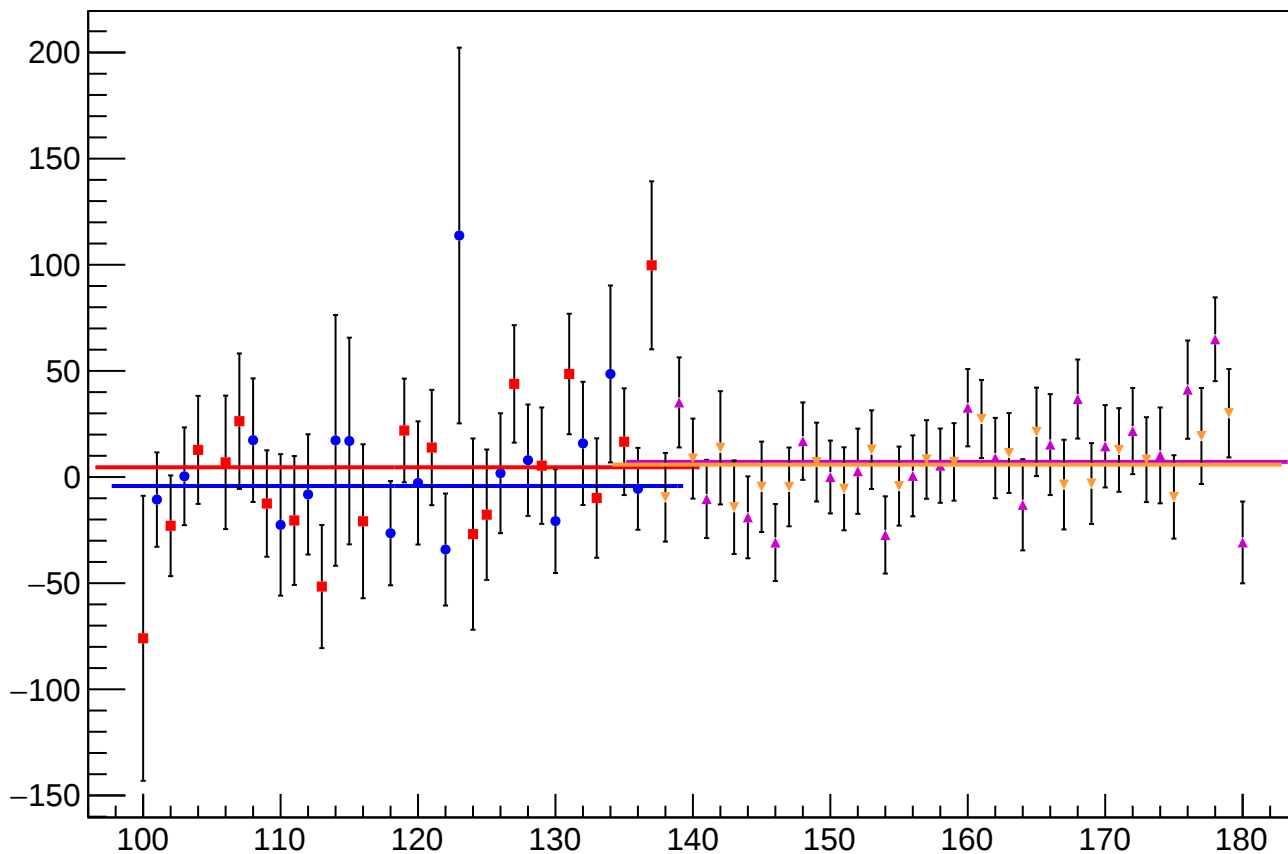
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 184.829 $\pm$ 0.029 χ^2 /NDF:2596982.2/37

Out: 195.475 $\pm$ 0.030 χ^2 /NDF:3245697.4/40

All: 189.925 $\pm$ 0.021 χ^2 /NDF: 5908850.6/78

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: 5.852 ± 4.228 $\chi^2/\text{NDF}: 7.7/21$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 7.142 ± 4.241 $\chi^2/\text{NDF}: 33.9/20$

Left: 6.495 ± 2.994 $\chi^2/\text{NDF}: 41.6/42$

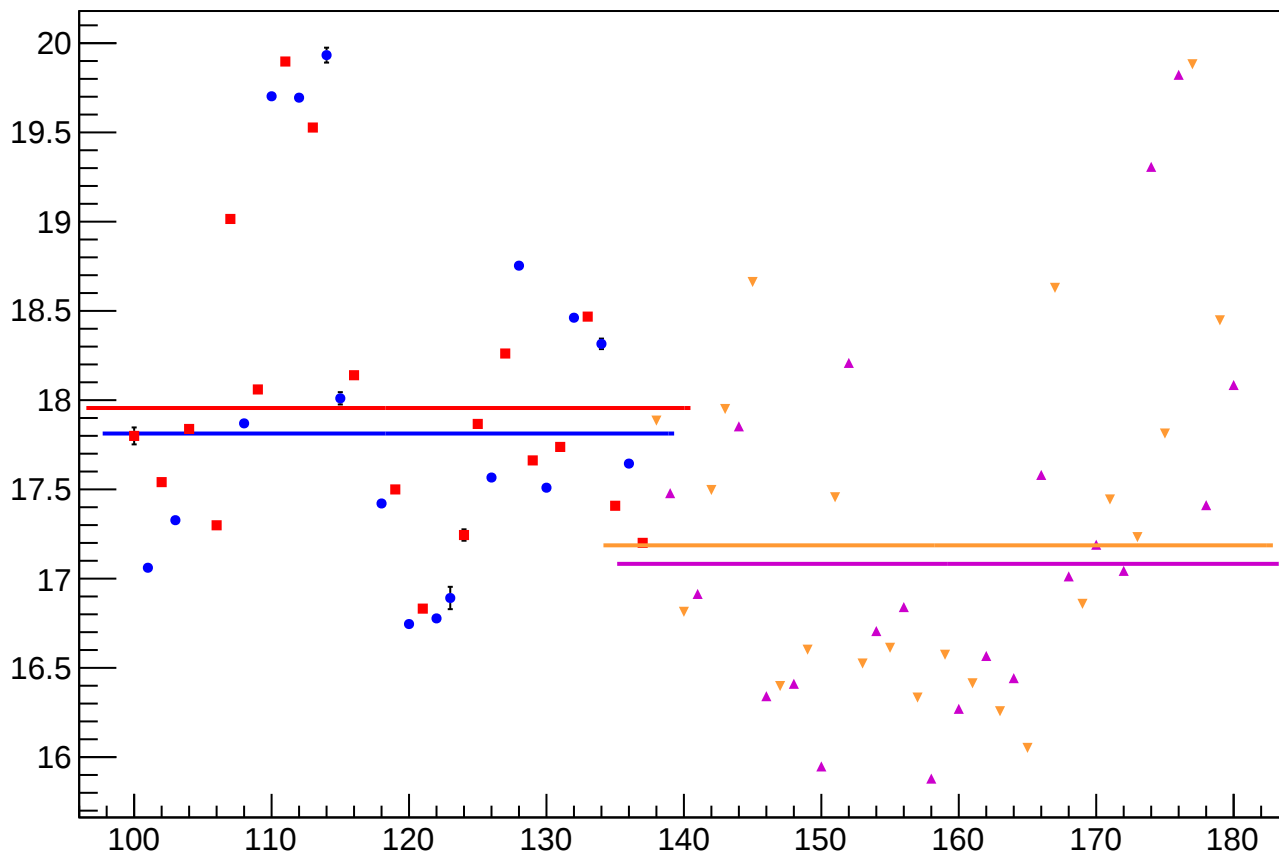
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: 4.007 ± 3.609 $\chi^2/\text{NDF}: 43.9/37$

Out: 5.497 ± 3.580 $\chi^2/\text{NDF}: 28.8/40$

All: 4.758 ± 2.541 $\chi^2/\text{NDF}: 72.7/78$

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: 17.187 $\pm$ 0.003 χ^2 /NDF:94620.0/21

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 17.083 $\pm$ 0.003 χ^2 /NDF:97349.6/20

Left: 17.135 $\pm$ 0.002 χ^2 /NDF: 192570.2/42

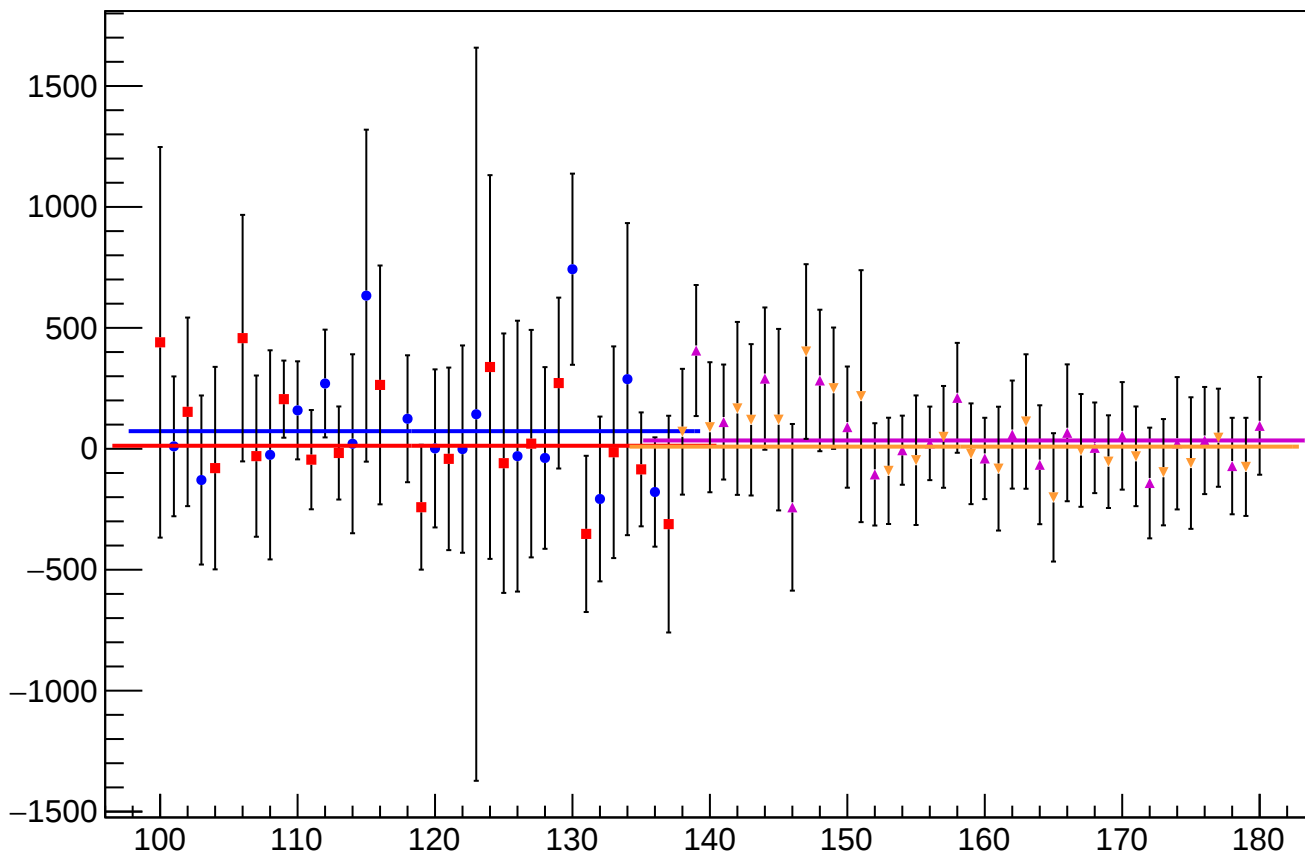
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.284 $\pm$ 0.003 χ^2 /NDF:145740.5/37

Out: 17.405 $\pm$ 0.003 χ^2 /NDF:138827.2/40

All: 17.345 $\pm$ 0.002 χ^2 /NDF: 285688.9/78

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 8.928+/-53.023 χ^2/NDF : 4.7/21

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 34.527+/-47.220 χ^2/NDF : 6.7/20

Left: 23.204+/-35.264 χ^2/NDF : 11.5/42

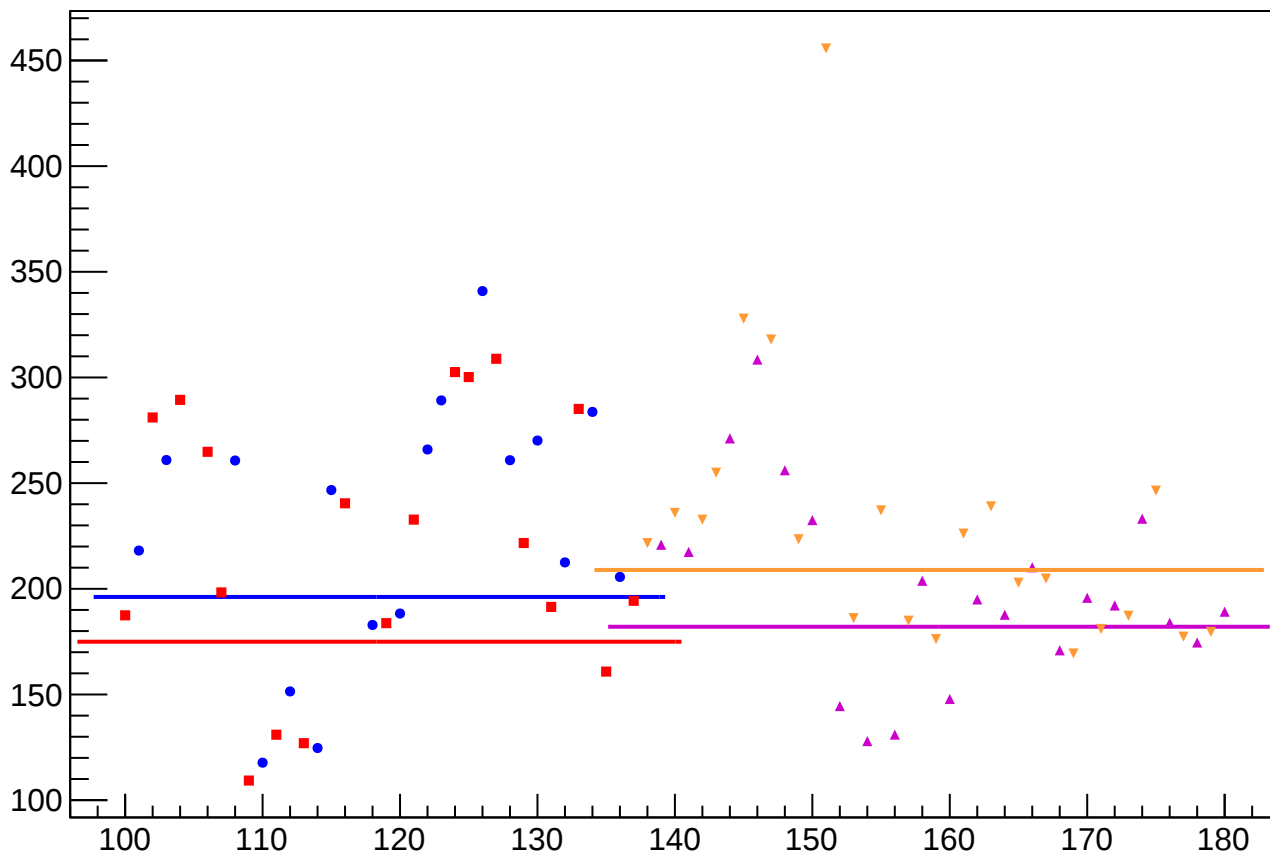
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 44.448+/-40.658 χ^2/NDF : 14.1/37

Out: 10.230+/-42.486 χ^2/NDF : 11.4/40

All: 28.091+/-29.375 χ^2/NDF : 25.8/78

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: 208.927+/-0.037 χ^2/NDF :1338452.2/21

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 182.050+/-0.033 χ^2/NDF :1545031.7/20

Left: 193.938+/-0.025 χ^2/NDF : 3170080.6/42

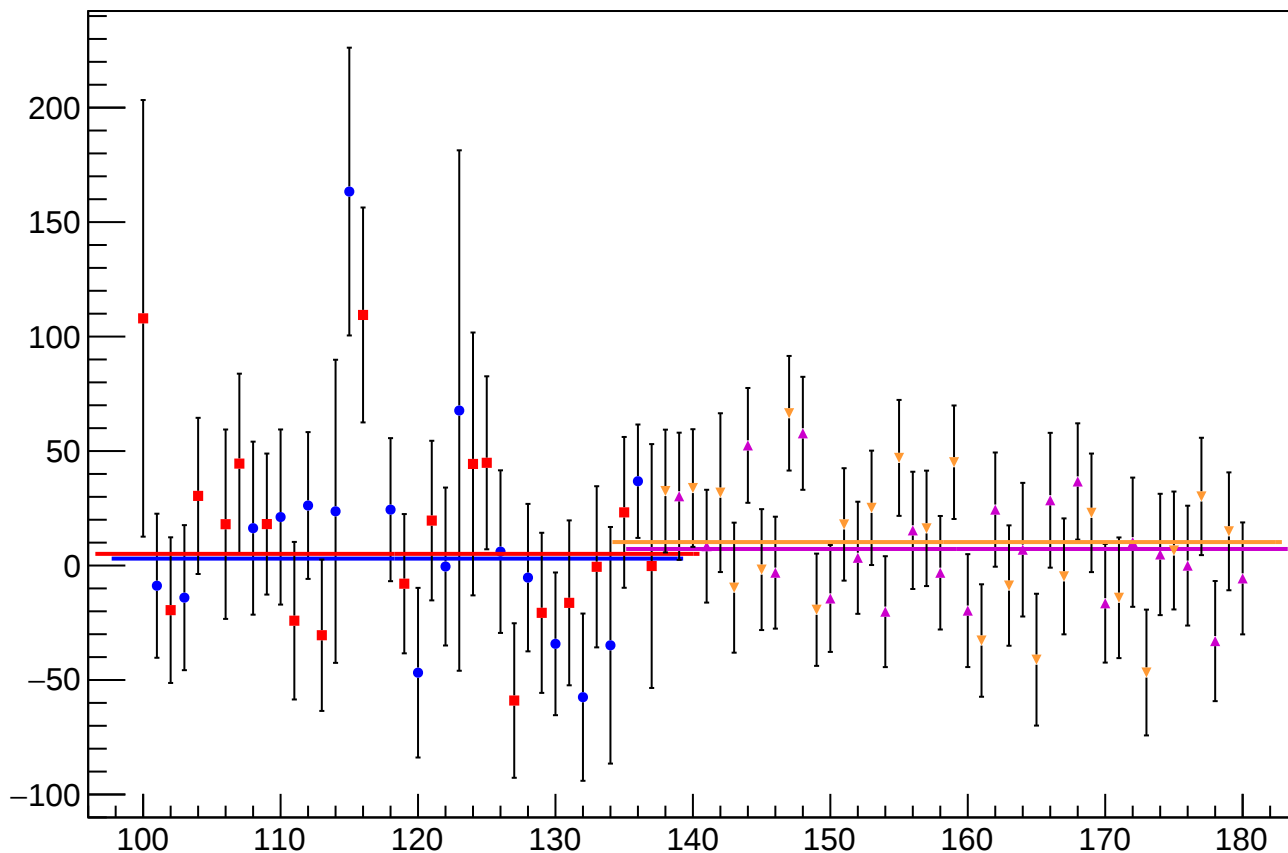
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 185.697+/-0.029 χ^2/NDF :2556157.0/37

Out: 196.770+/-0.030 χ^2/NDF :3143120.9/40

All: 190.990+/-0.021 χ^2/NDF : 5770195.8/78

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022+/-8.751 χ^2/NDF : 17.2/16

Left Out: 10.246+/-5.559 χ^2/NDF :26.9/21

Right Out: 5.092+/-8.477 χ^2/NDF : 17.2/18

Left In: 7.227+/-5.582 χ^2/NDF :17.8/20

Left: 8.743+/-3.939 χ^2/NDF : 44.9/42

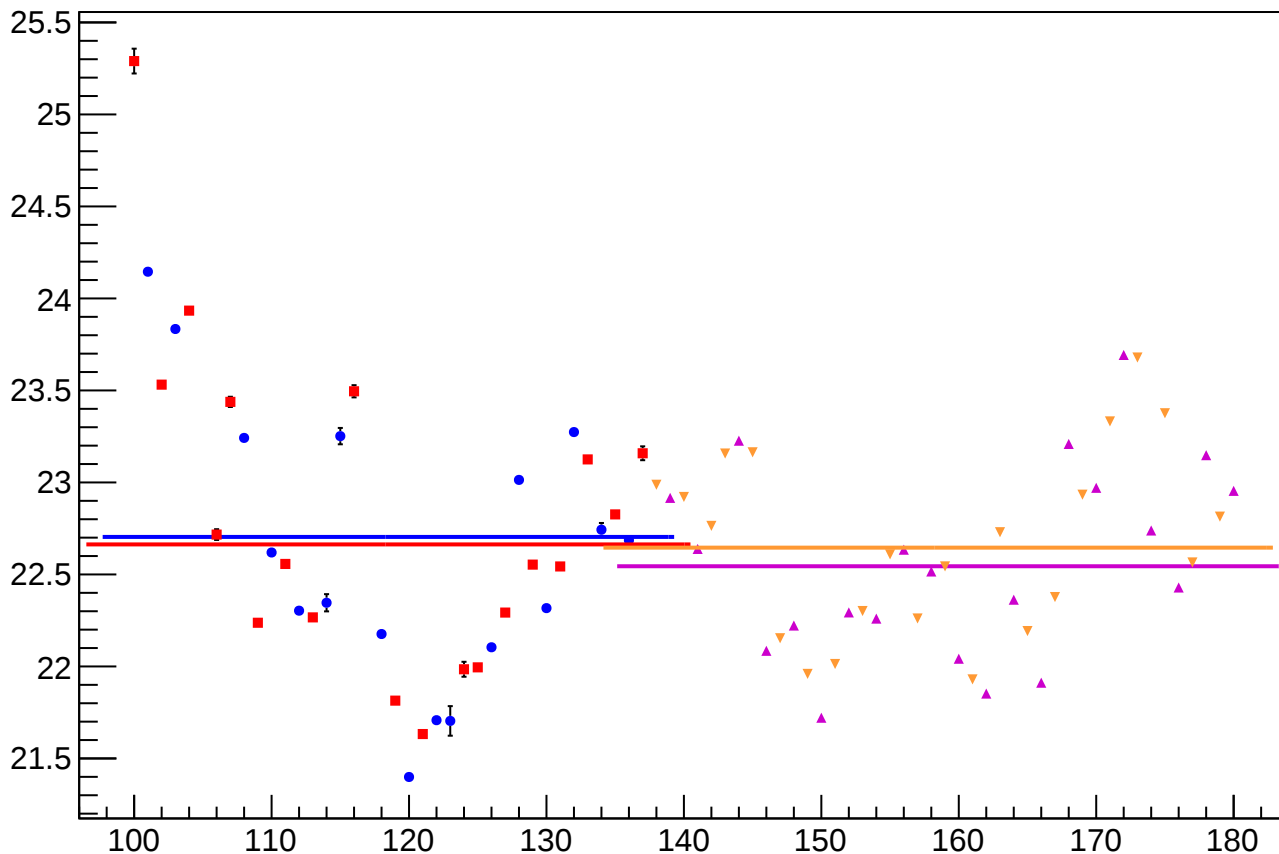
Right: 4.090+/-6.089 χ^2/NDF : 34.4/35

In: 6.011+/-4.706 χ^2/NDF :35.2/37

Out: 8.696+/-4.649 χ^2/NDF :44.3/40

All: 7.370+/-3.307 χ^2/NDF : 79.7/78

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: 22.646 $\pm$ 0.004 χ^2 /NDF:15134.9/21

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.545 $\pm$ 0.004 χ^2 /NDF:16274.6/20

Left: 22.595 $\pm$ 0.003 χ^2 /NDF: 31739.2/42

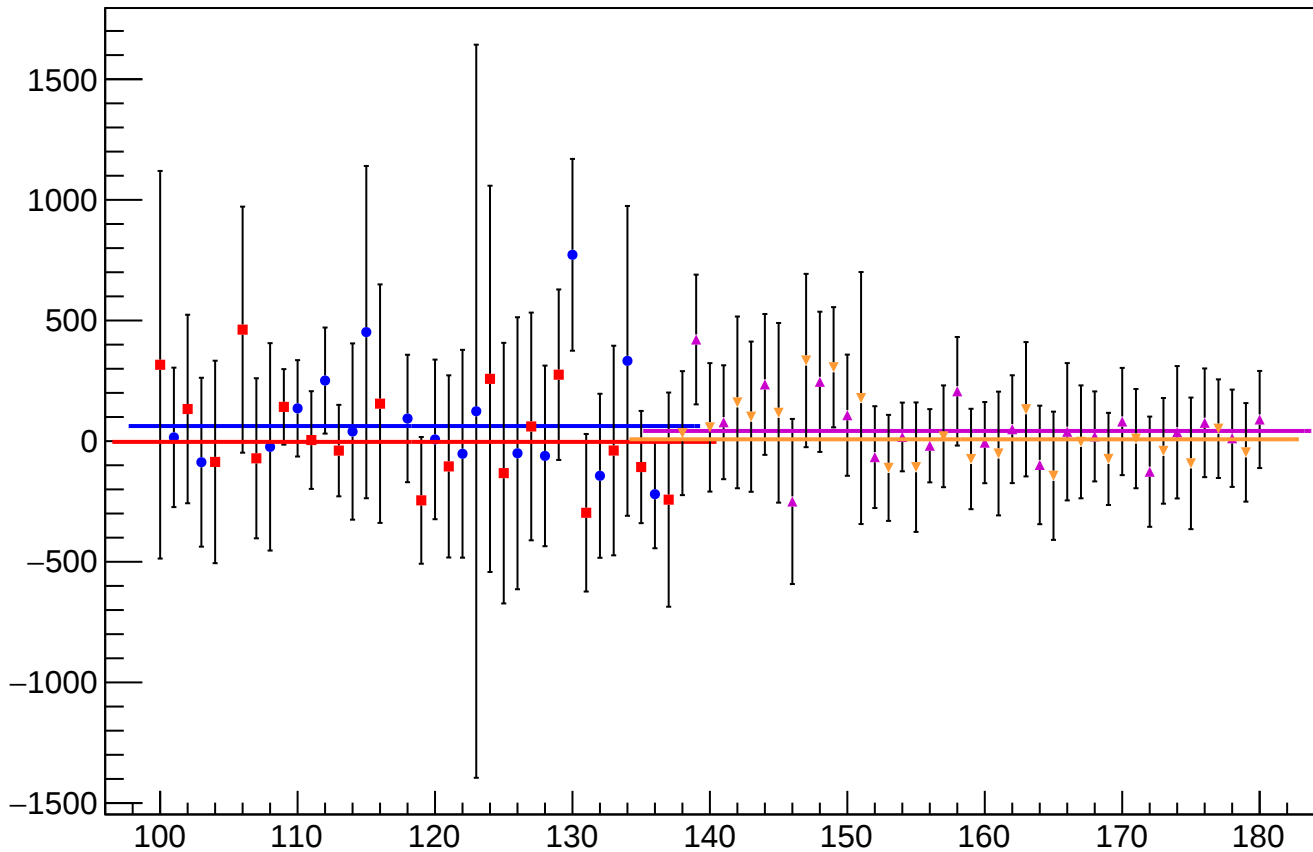
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.591 $\pm$ 0.003 χ^2 /NDF:30851.9/37

Out: 22.651 $\pm$ 0.003 χ^2 /NDF:28084.3/40

All: 22.621 $\pm$ 0.002 χ^2 /NDF: 59102.5/78

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: 7.608+/-52.985 χ^2/NDF : 4.5/21

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 42.273+/-47.168 χ^2/NDF : 5.8/20

Left: 26.947+/-35.231 χ^2/NDF : 10.5/42

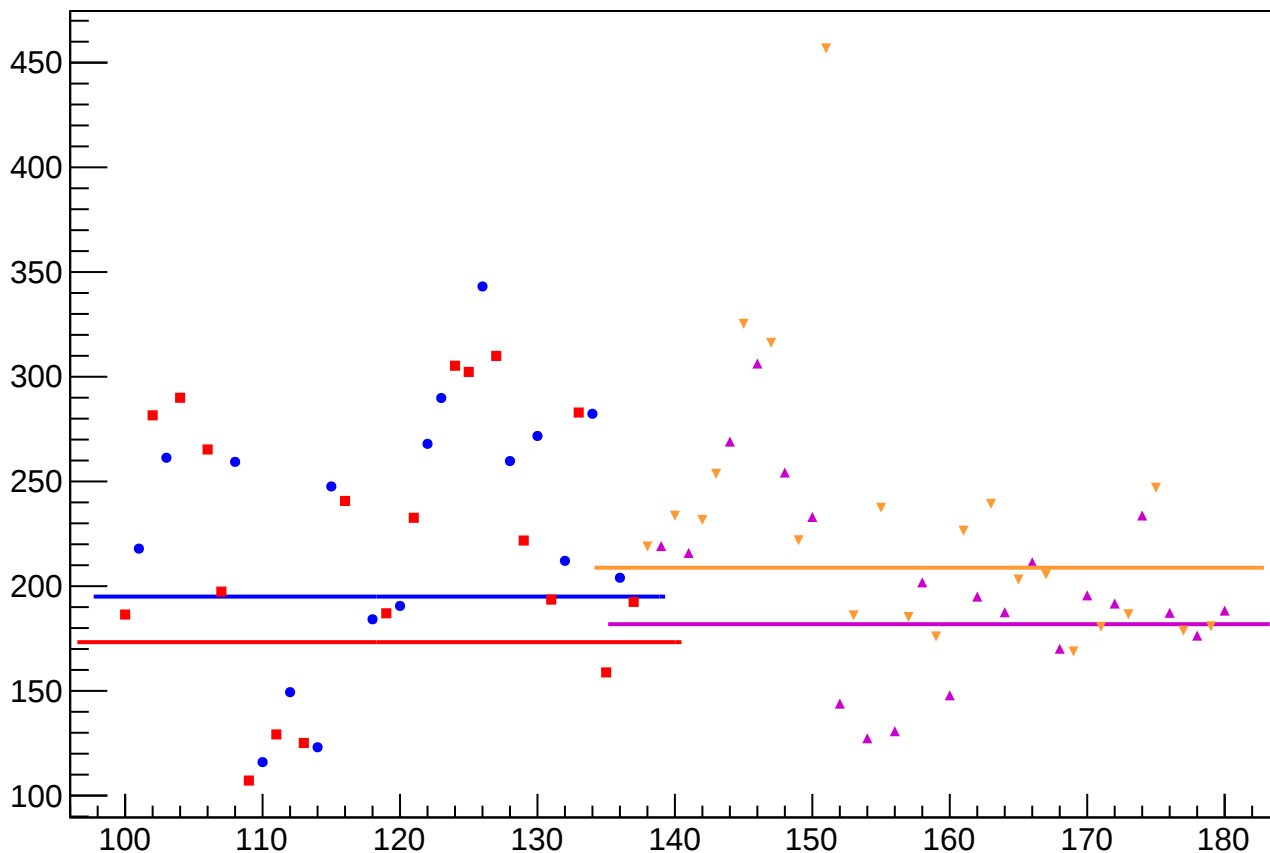
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 47.548+/-40.580 χ^2/NDF : 12.9/37

Out: 3.766+/-42.360 χ^2/NDF : 9.7/40

All: 26.597+/-29.303 χ^2/NDF : 23.2/78

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: 208.810 ± 0.037 χ^2/NDF : 1320895.9/21

Right Out: 173.262 ± 0.050 χ^2/NDF : 1578202.7/18

Left In: 181.845 ± 0.033 χ^2/NDF : 1537481.5/20

Left: 193.766 ± 0.025 χ^2/NDF : 3147363.8/42

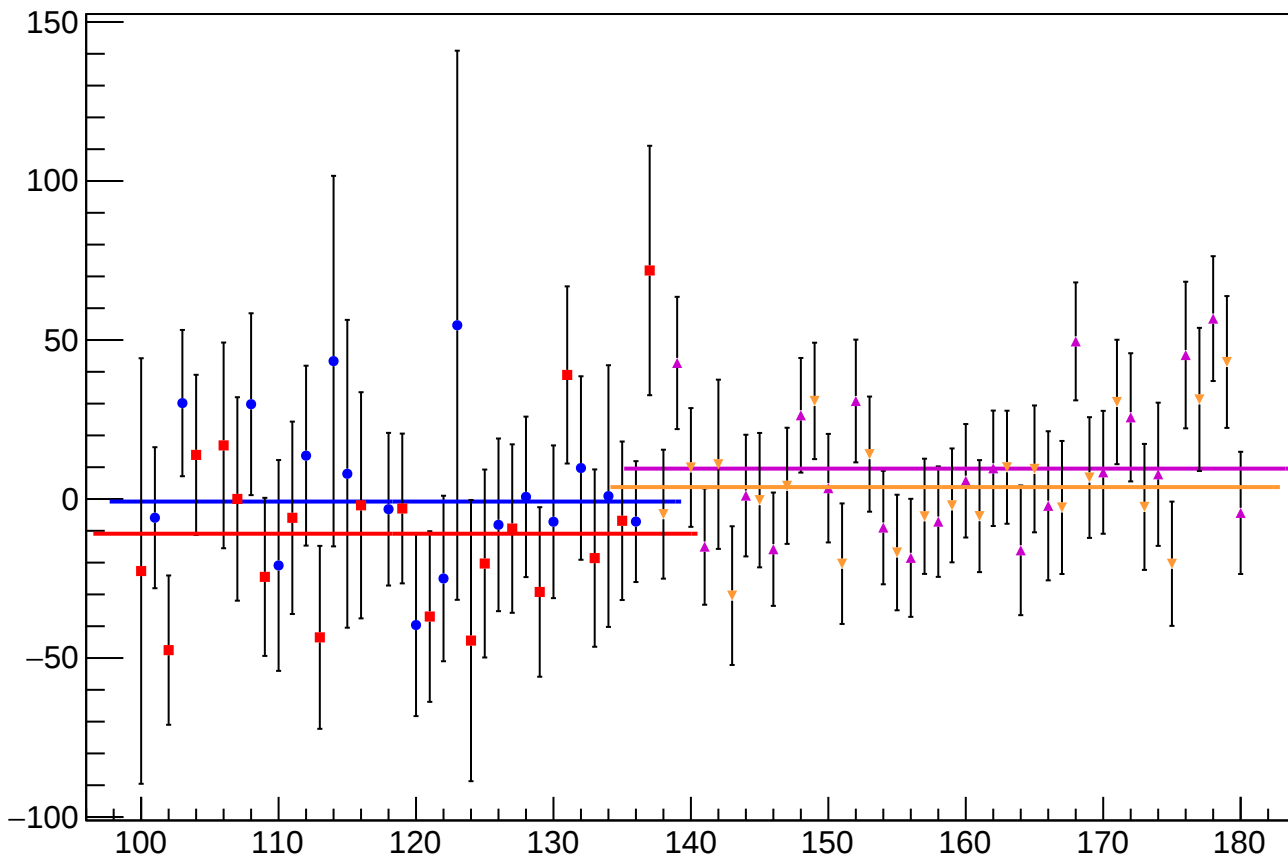
Right: 182.829 ± 0.037 χ^2/NDF : 2666222.6/35

In: 185.269 ± 0.029 χ^2/NDF : 2582328.6/37

Out: 195.982 ± 0.030 χ^2/NDF : 3223944.6/40

All: 190.396 ± 0.021 χ^2/NDF : 5872986.9/78

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: 3.749 ± 4.148 χ^2/NDF : 17.8/21

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 9.556 ± 4.176 χ^2/NDF : 29.0/20

Left: 6.633 ± 2.943 χ^2/NDF : 47.7/42

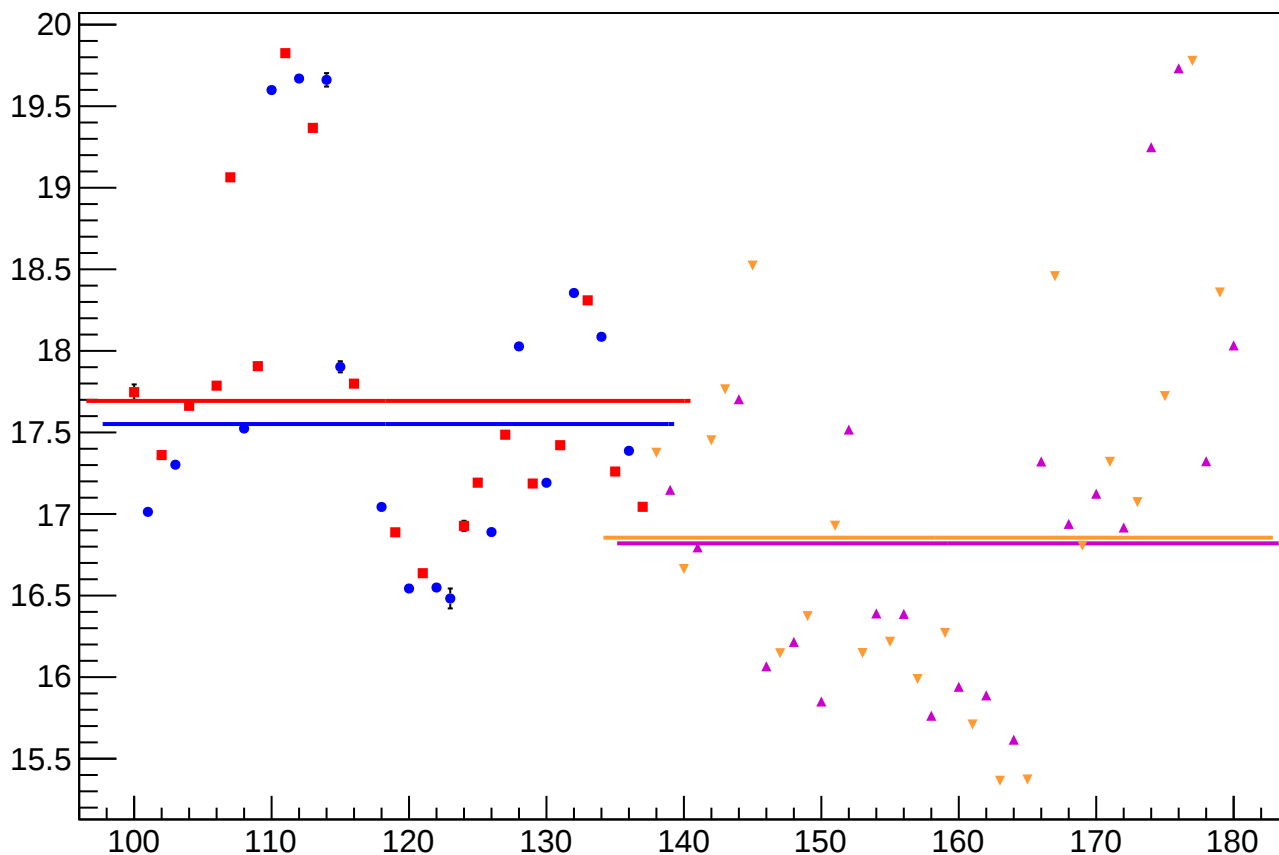
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 6.702 ± 3.554 χ^2/NDF : 38.4/37

Out: -0.379 ± 3.516 χ^2/NDF : 37.3/40

All: 3.123 ± 2.499 χ^2/NDF : 77.7/78

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: 16.855 $\pm$ 0.003 χ^2 /NDF:130039.9/21

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.820 $\pm$ 0.003 χ^2 /NDF:112435.5/20

Left: 16.838 $\pm$ 0.002 χ^2 /NDF: 242544.8/42

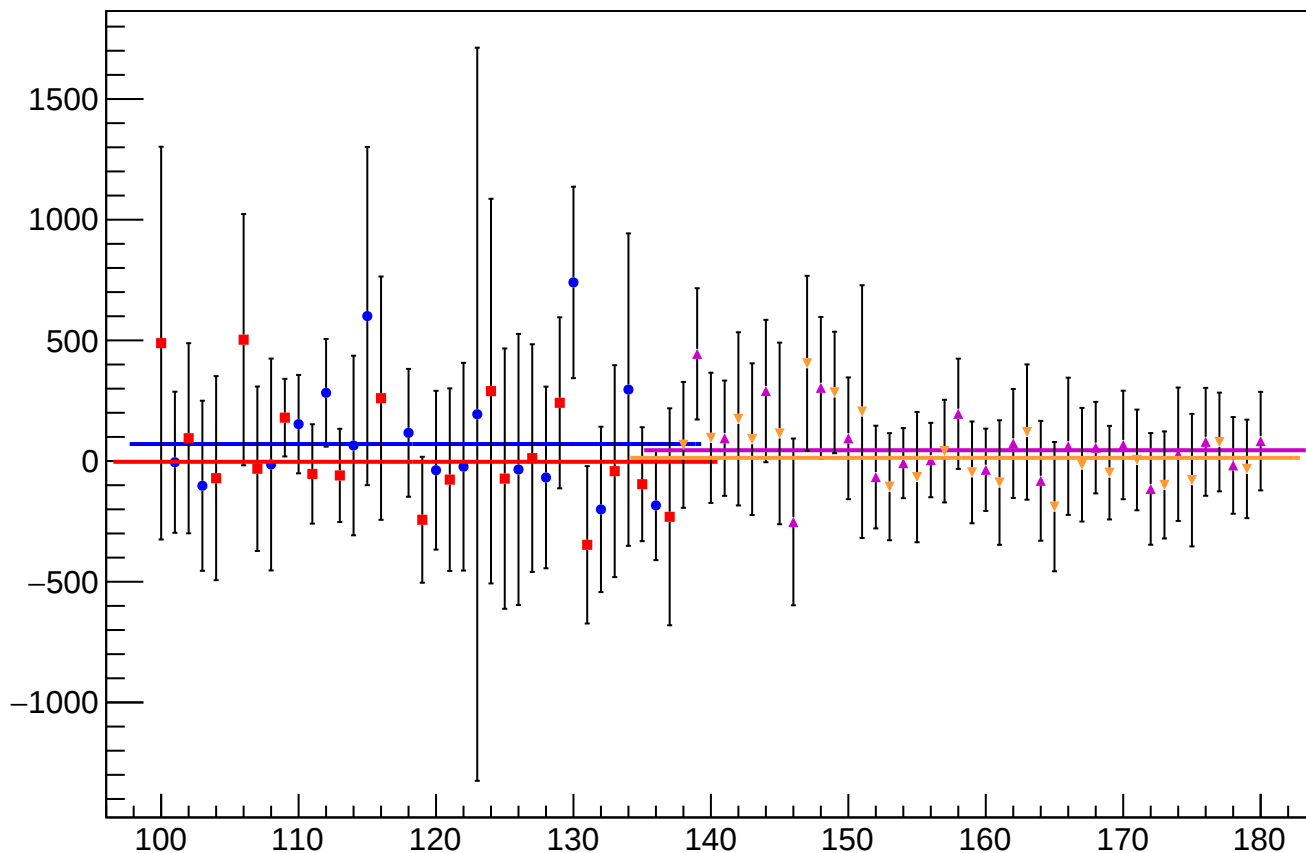
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 17.022 $\pm$ 0.003 χ^2 /NDF:163371.1/37

Out: 17.091 $\pm$ 0.002 χ^2 /NDF:183794.3/40

All: 17.057 $\pm$ 0.002 χ^2 /NDF: 347548.6/78

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: 13.393+/-53.451 χ^2/NDF : 4.9/21

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 44.967+/-47.671 χ^2/NDF : 6.5/20

Left: 30.979+/-35.577 χ^2/NDF : 11.6/42

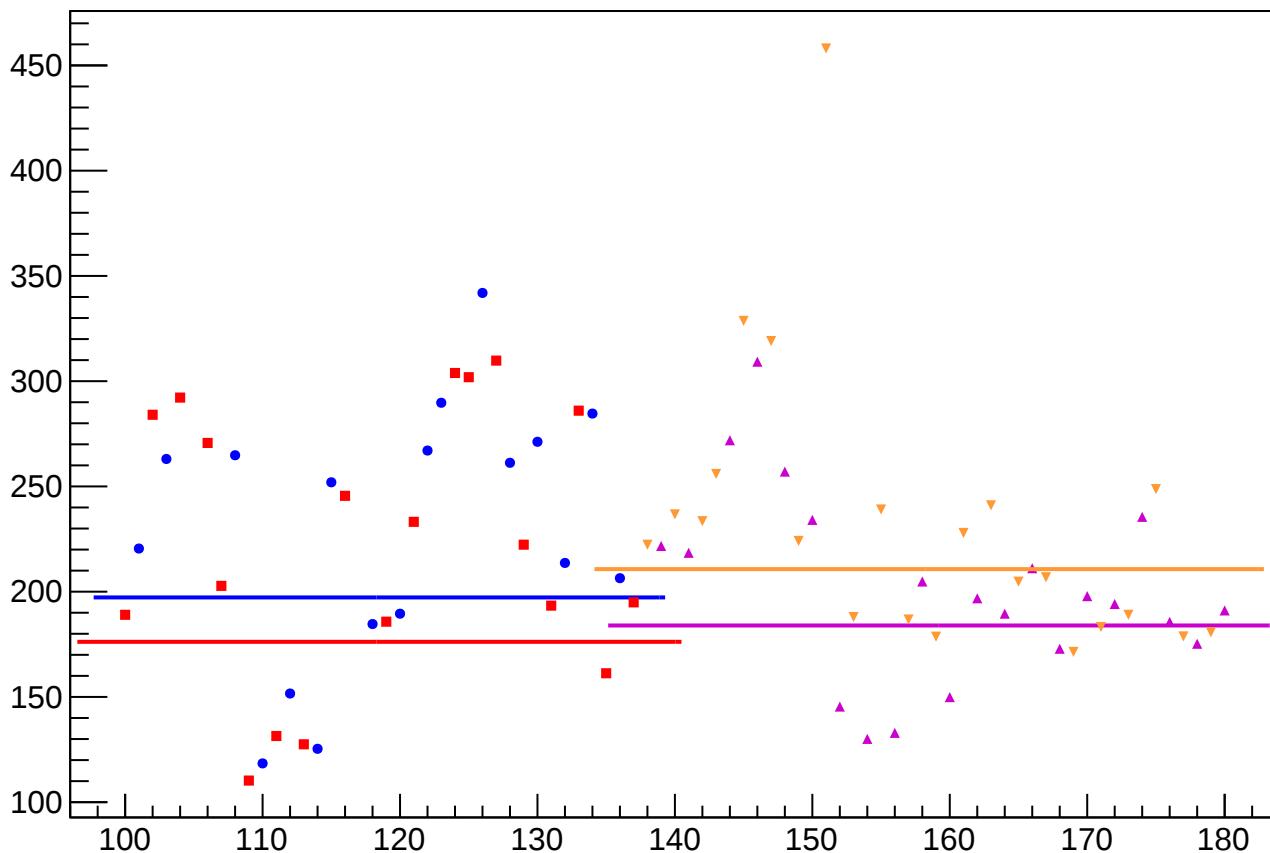
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 51.643+/-41.006 χ^2/NDF : 13.8/37

Out: 7.494+/-42.812 χ^2/NDF : 11.1/40

All: 30.519+/-29.614 χ^2/NDF : 25.5/78

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271 $\pm$ 0.057 χ^2 /NDF: 969549.7/16

Left Out: 210.720 $\pm$ 0.038 χ^2 /NDF:1314592.3/21

Right Out: 176.181 $\pm$ 0.051 χ^2 /NDF: 1519707.5/18

Left In: 183.941 $\pm$ 0.034 χ^2 /NDF:1501305.2/20

Left: 195.805 $\pm$ 0.025 χ^2 /NDF: 3095499.4/42

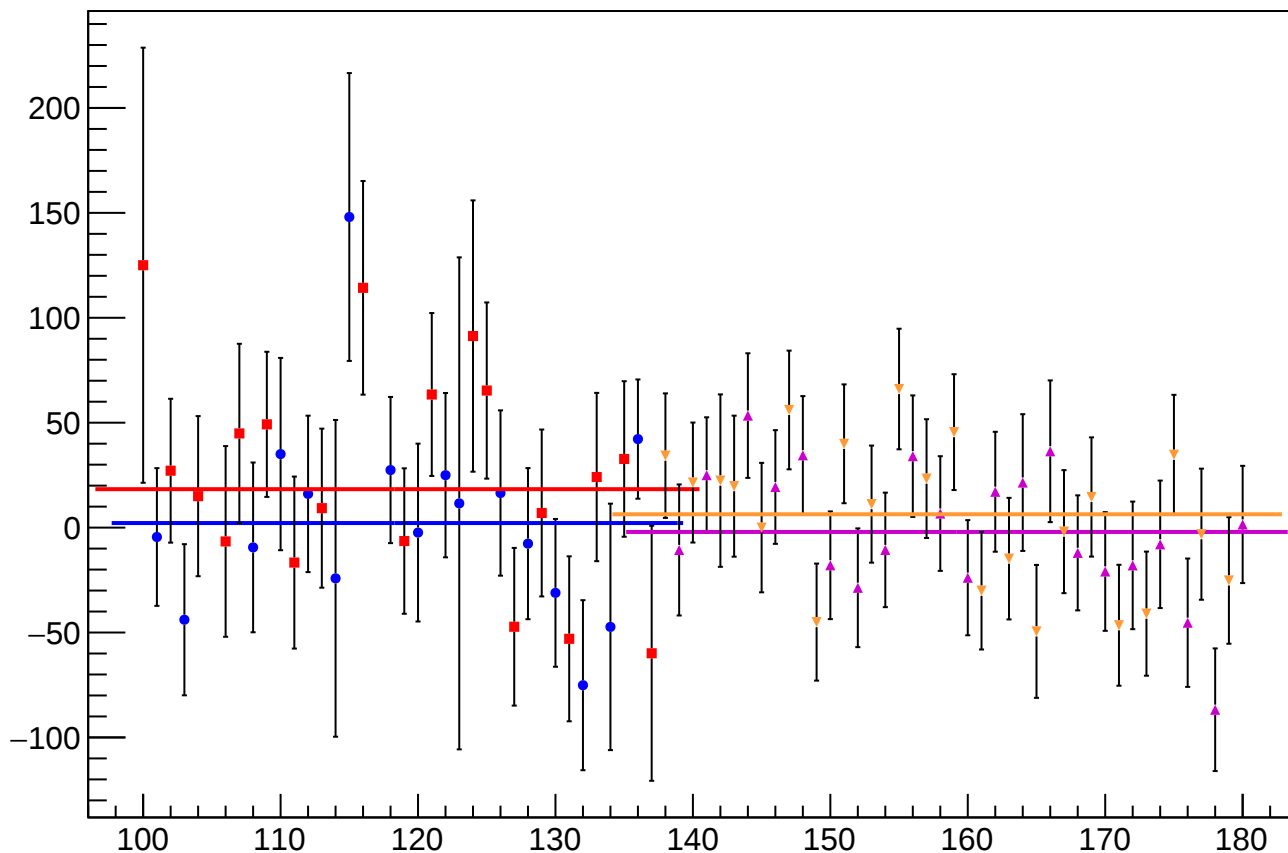
Right: 185.494 $\pm$ 0.038 χ^2 /NDF: 2566089.1/35

In: 187.408 $\pm$ 0.029 χ^2 /NDF:2511525.3/37

Out: 198.339 $\pm$ 0.030 χ^2 /NDF:3133654.7/40

All: 192.638 $\pm$ 0.021 χ^2 /NDF: 5713183.5/78

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: 6.357 ± 6.289 $\chi^2/\text{NDF}: 29.7/21$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: -2.067 ± 6.278 $\chi^2/\text{NDF}: 24.1/20$

Left: 2.137 ± 4.443 $\chi^2/\text{NDF}: 54.7/42$

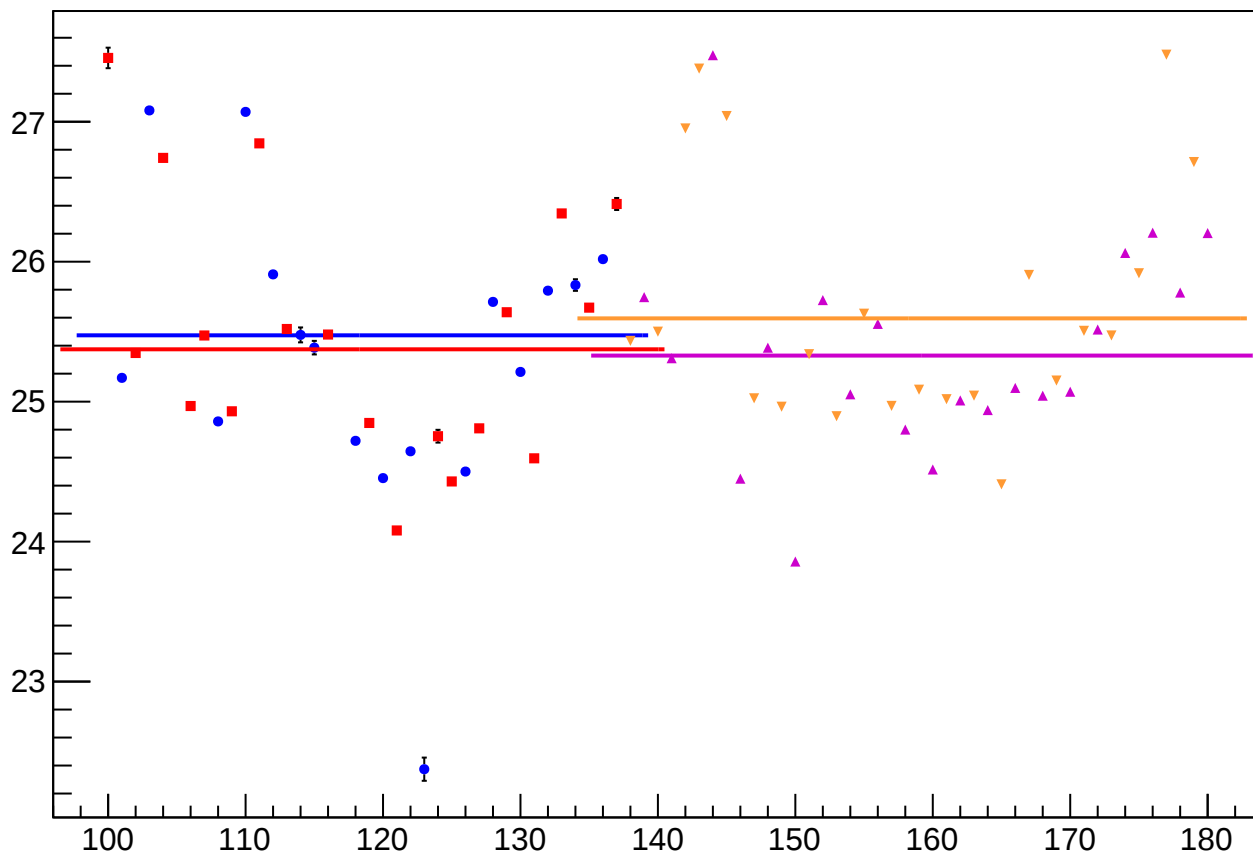
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: -0.837 ± 5.290 $\chi^2/\text{NDF}: 39.6/37$

Out: 10.003 ± 5.243 $\chi^2/\text{NDF}: 50.4/40$

All: 4.631 ± 3.724 $\chi^2/\text{NDF}: 92.1/78$

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: 25.595 $\pm$ 0.004 χ^2 /NDF: 32635.4/21

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.329 $\pm$ 0.004 χ^2 /NDF: 29062.5/20

Left: 25.462 $\pm$ 0.003 χ^2 /NDF: 63487.4/42

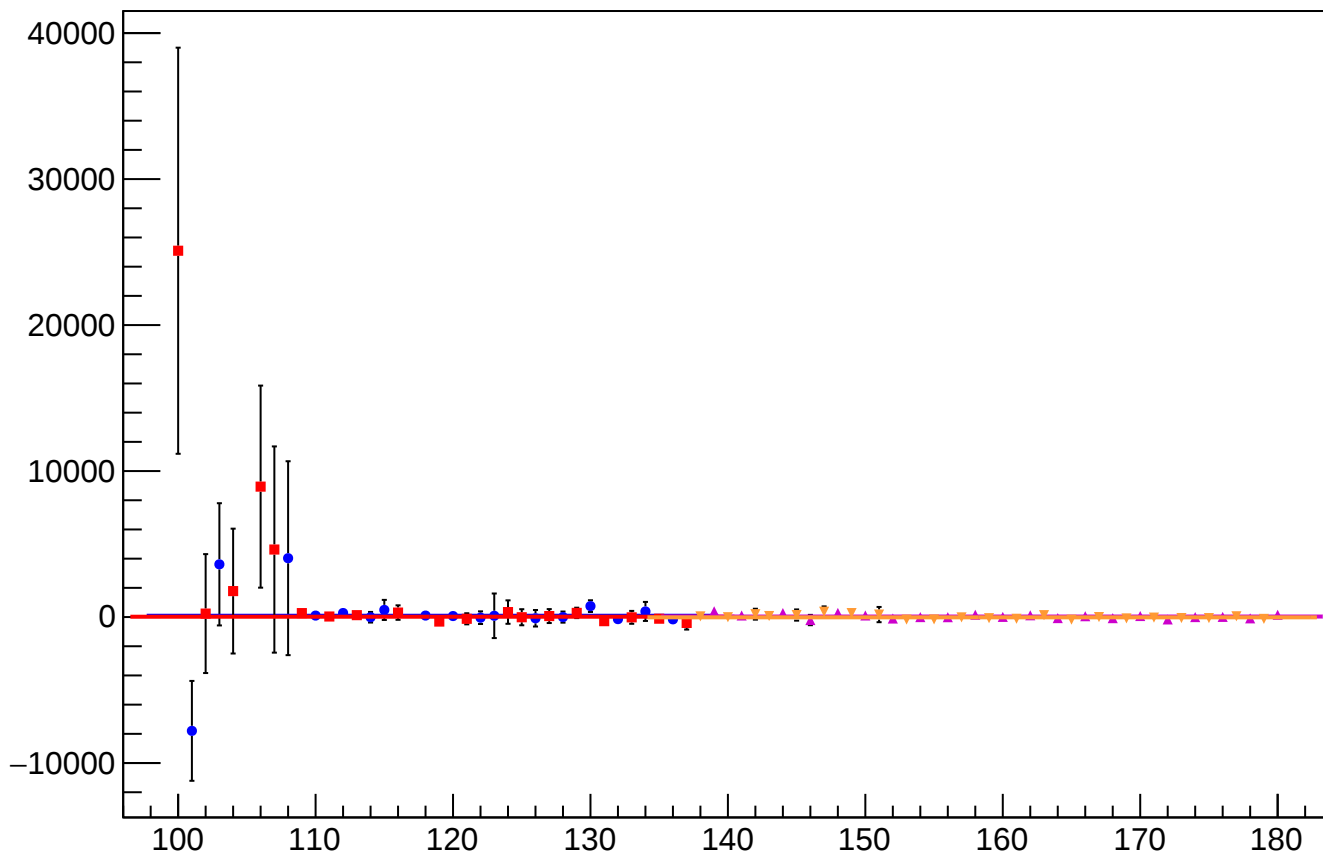
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.371 $\pm$ 0.004 χ^2 /NDF: 43431.9/37

Out: 25.528 $\pm$ 0.004 χ^2 /NDF: 46969.5/40

All: 25.450 $\pm$ 0.003 χ^2 /NDF: 91284.1/78

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: -19.781+/-53.295 χ^2/NDF : 5.4/21

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 35.532+/-48.005 χ^2/NDF : 6.8/20

Left: 10.756+/-35.669 χ^2/NDF : 12.8/42

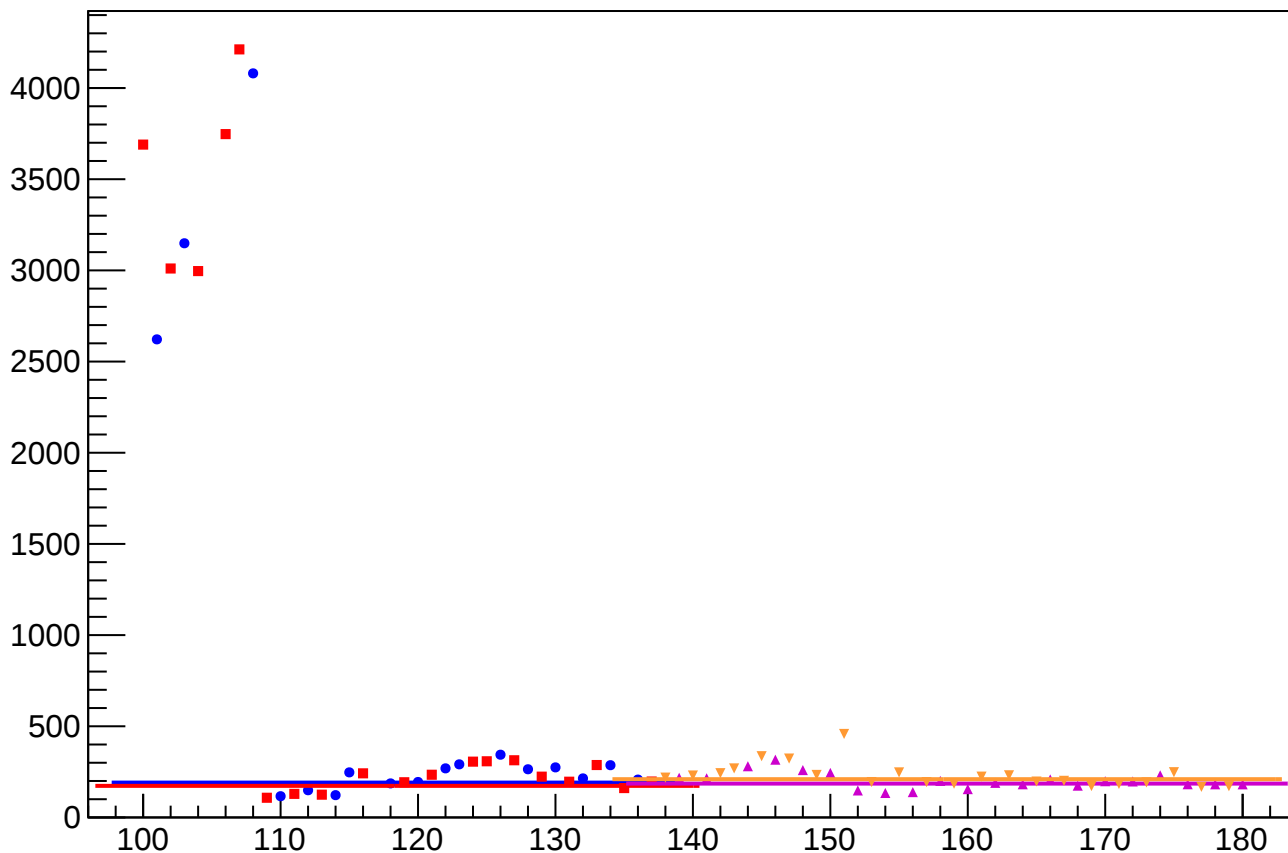
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 48.017+/-42.102 χ^2/NDF : 19.4/37

Out: -6.951+/-44.506 χ^2/NDF : 17.5/40

All: 22.058+/-30.585 χ^2/NDF : 37.7/78

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190+/-0.062 χ^2/NDF : 3571747.5/16

Left Out: 209.868+/-0.038 χ^2/NDF :1409798.5/21

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 185.687+/-0.034 χ^2/NDF :1374707.5/20

Left: 196.518+/-0.025 χ^2/NDF : 3011808.4/42

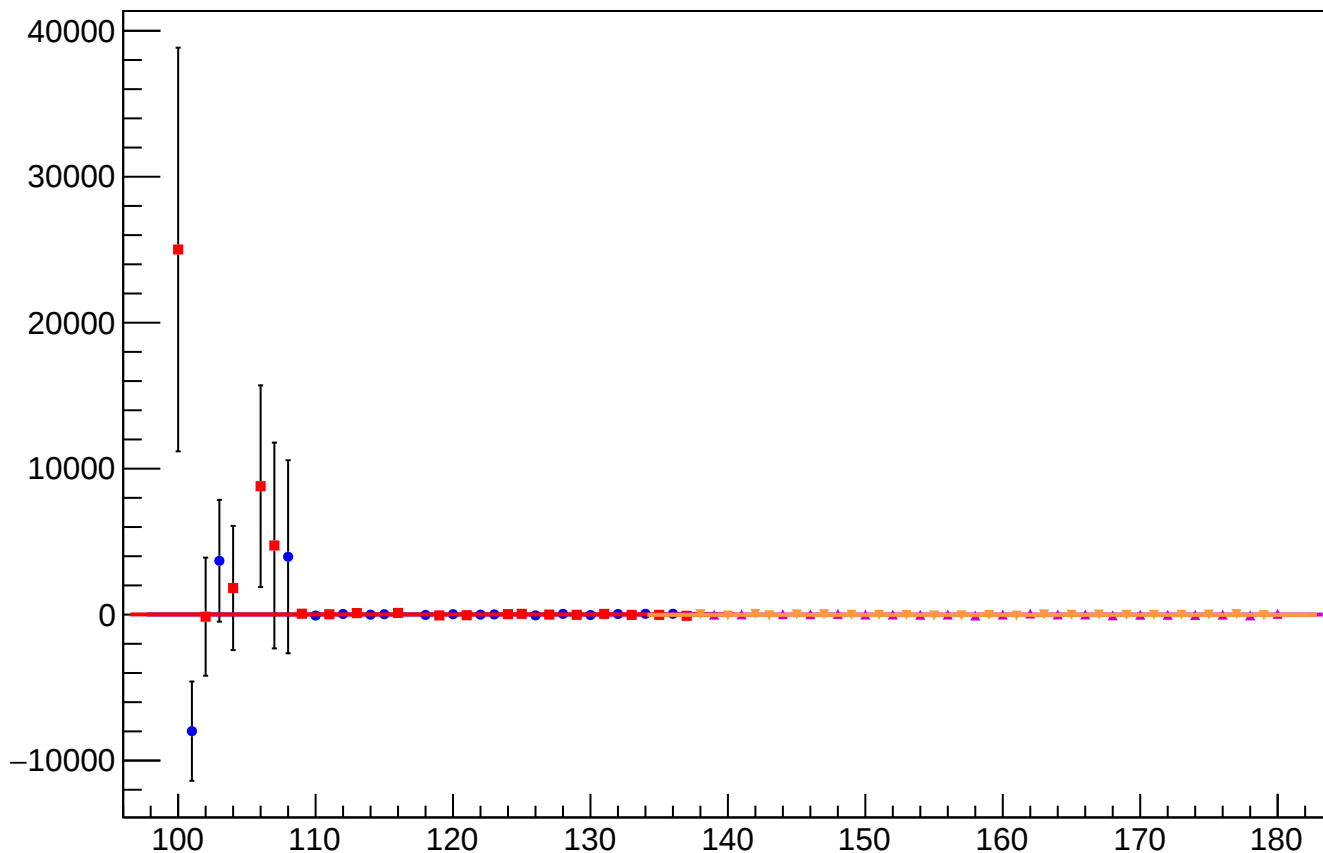
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 186.957+/-0.030 χ^2/NDF :4952522.5/37

Out: 198.792+/-0.031 χ^2/NDF :5902421.3/40

All: 192.546+/-0.022 χ^2/NDF : 10929575.3/78

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: -14.957+/-7.075 χ^2/NDF :19.4/21

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 5.292+/-7.123 χ^2/NDF :24.3/20

Left: -4.901+/-5.020 χ^2/NDF : 47.7/42

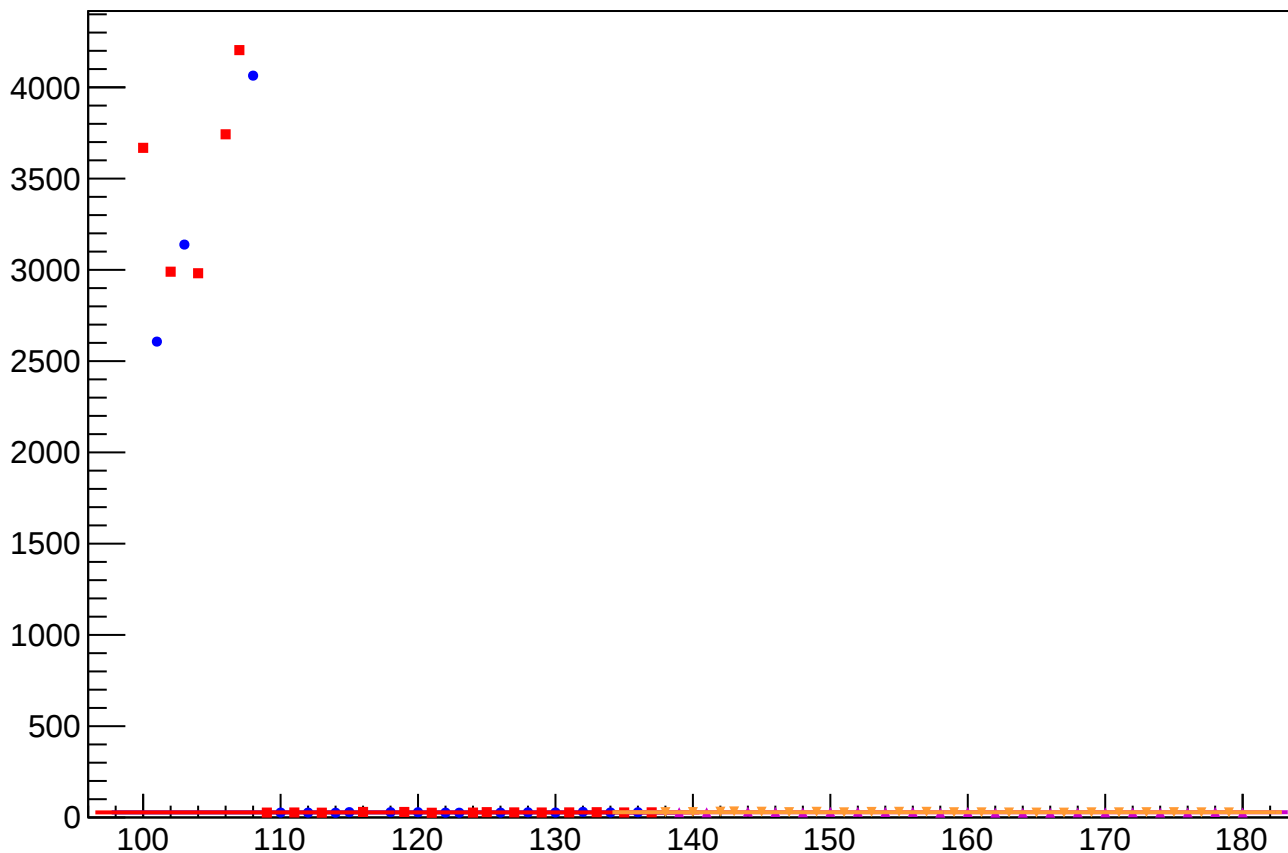
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 6.592+/-6.150 χ^2/NDF :42.7/37

Out: -7.958+/-6.124 χ^2/NDF :47.7/40

All: -0.715+/-4.339 χ^2/NDF : 93.2/78

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837+/-0.009 χ^2/NDF : 3026887.2/16

Left Out: 28.747+/-0.005 χ^2/NDF : 101788.6/21

Right Out: 27.694+/-0.009 χ^2/NDF : 3476801.0/18

Left In: 28.669+/-0.005 χ^2/NDF : 123730.6/20

Left: 28.709+/-0.004 χ^2/NDF : 225638.6/42

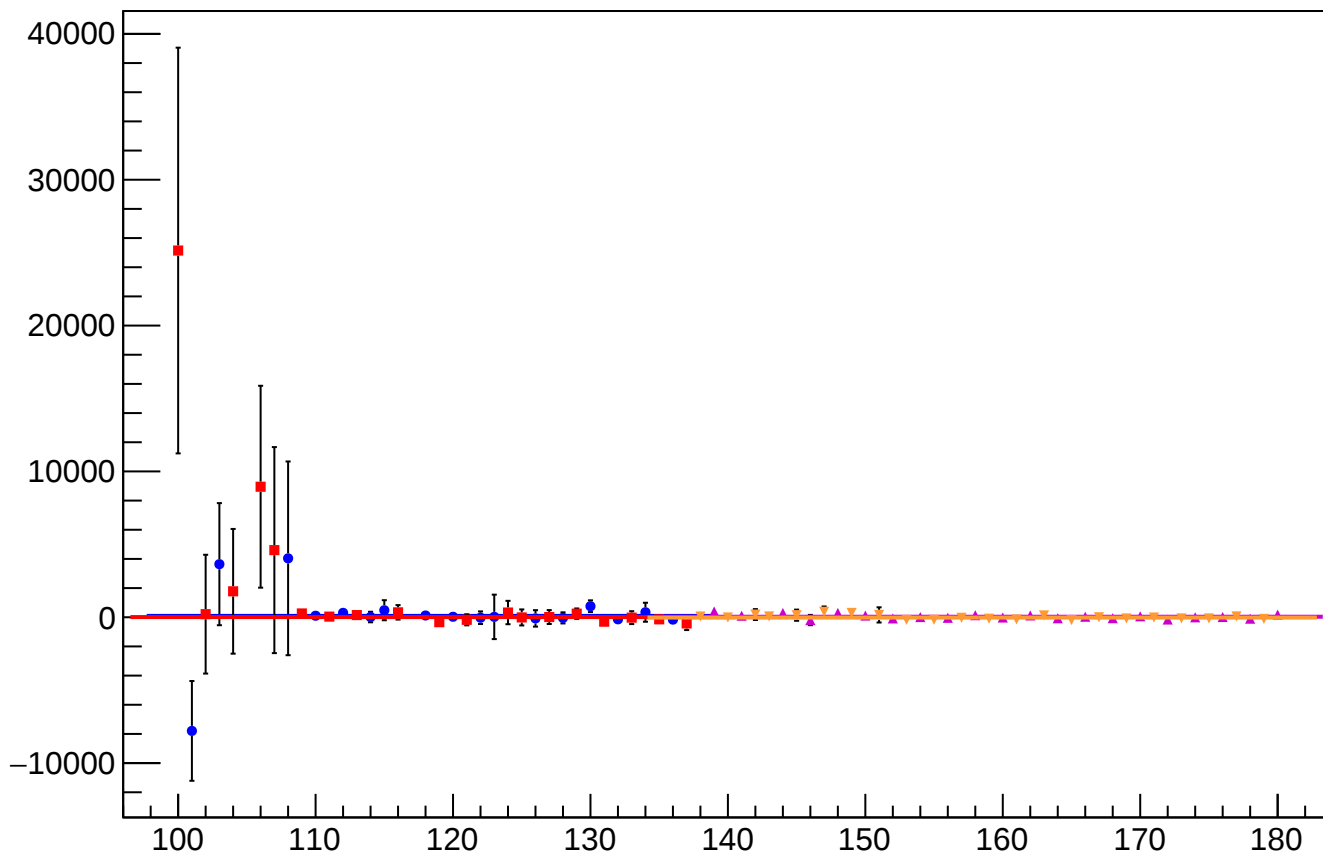
Right: 27.765+/-0.006 χ^2/NDF : 6503824.5/35

In: 28.457+/-0.004 χ^2/NDF : 3157579.3/37

Out: 28.483+/-0.004 χ^2/NDF : 3589704.1/40

All: 28.470+/-0.003 χ^2/NDF : 6747300.6/78

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: -21.980+/-53.170 χ^2/NDF : 6.0/21

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 35.668+/-47.907 χ^2/NDF : 7.1/20

Left: 9.837+/-35.591 χ^2/NDF : 13.7/42

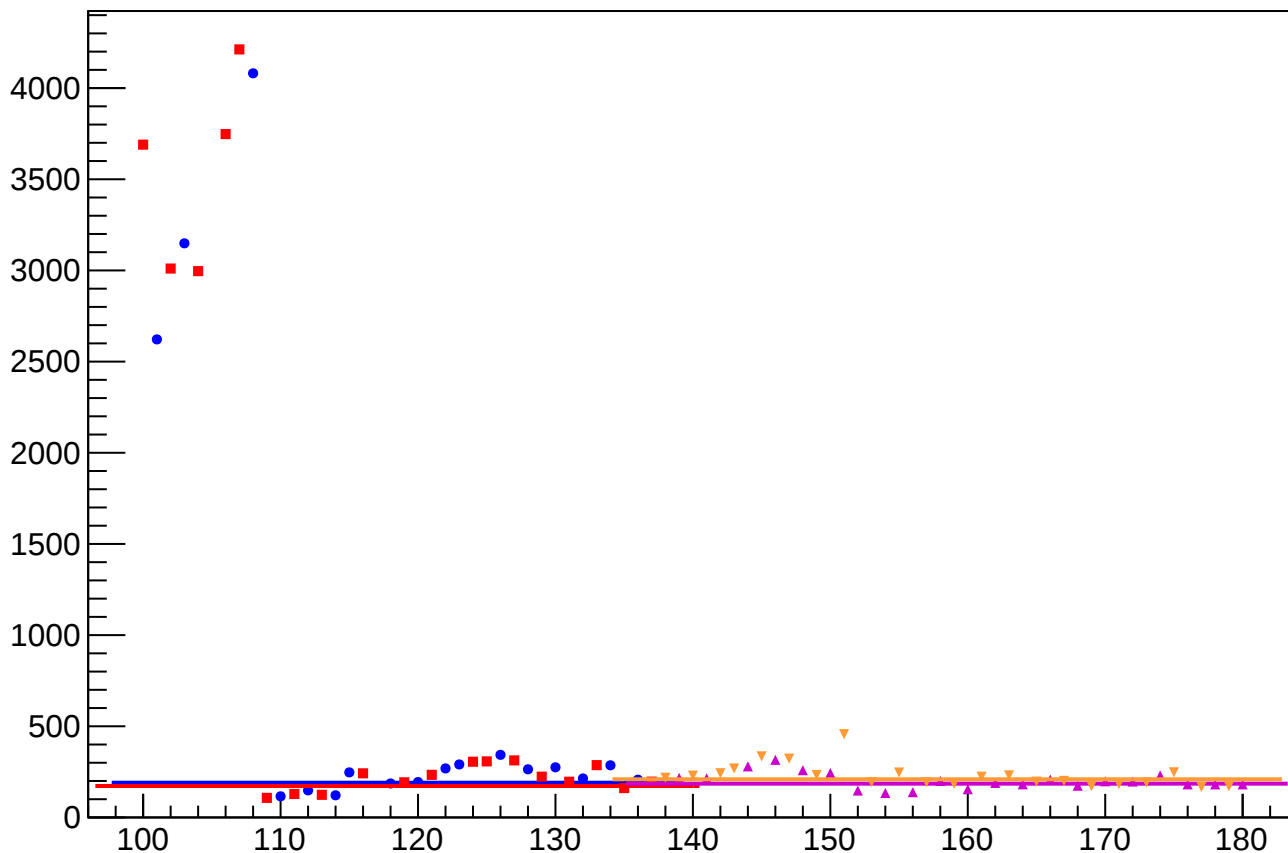
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 48.887+/-42.005 χ^2/NDF : 20.0/37

Out: -11.450+/-44.389 χ^2/NDF : 18.8/40

All: 20.382+/-30.510 χ^2/NDF : 39.8/78

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: 209.368+/-0.038 χ^2/NDF :1411803.9/21

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 185.309+/-0.034 χ^2/NDF :1374557.0/20

Left: 196.089+/-0.025 χ^2/NDF : 3012386.2/42

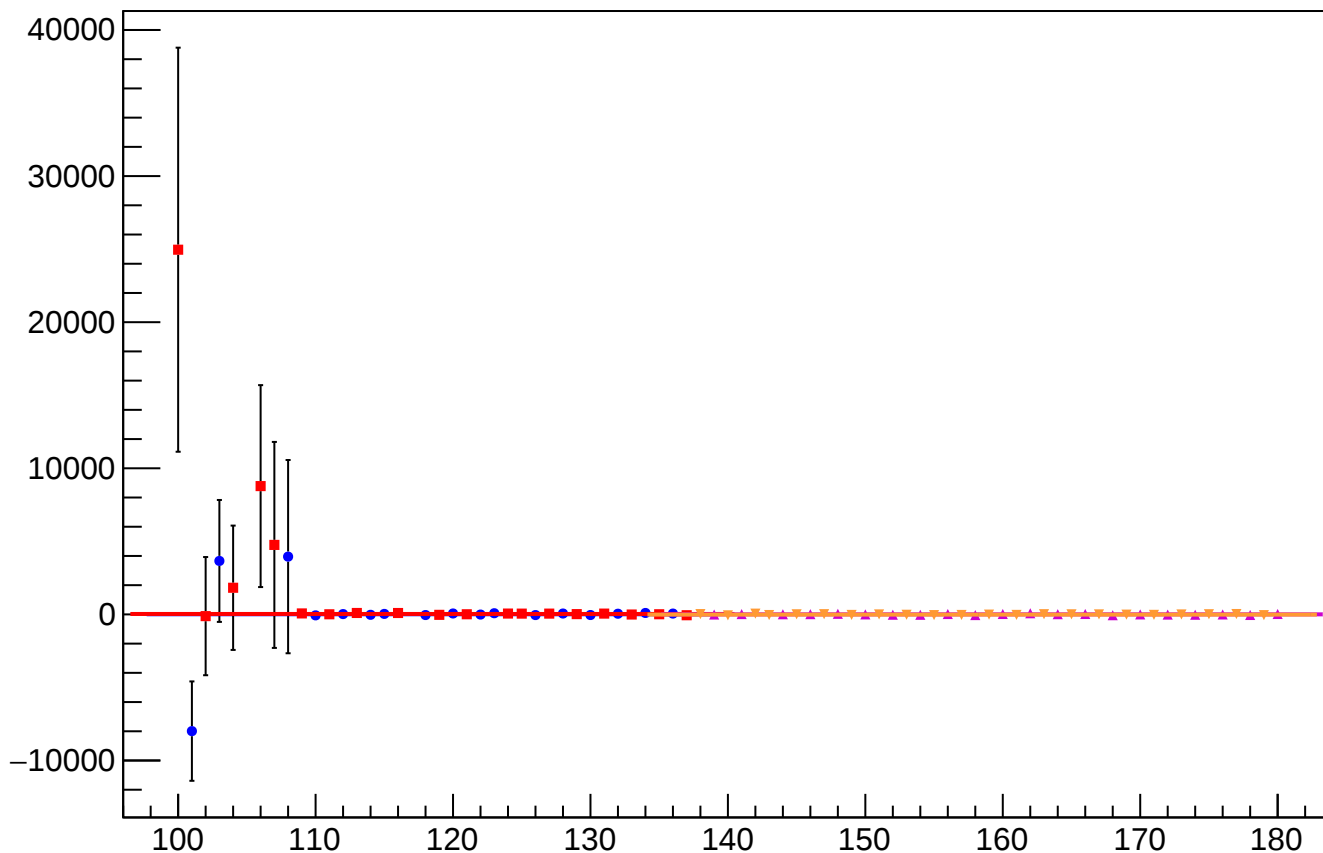
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 186.506+/-0.030 χ^2/NDF :4963529.6/37

Out: 198.228+/-0.031 χ^2/NDF :5919965.9/40

All: 192.043+/-0.022 χ^2/NDF : 10957076.4/78

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600 $\pm$ 12.273 χ^2 /NDF: 23.2/16

Left Out: -12.964 $\pm$ 7.111 χ^2 /NDF:14.5/21

Right Out: 29.627 $\pm$ 12.328 χ^2 /NDF: 16.5/18

Left In: 3.198 $\pm$ 7.155 χ^2 /NDF:20.8/20

Left: -4.933 $\pm$ 5.044 χ^2 /NDF: 37.9/42

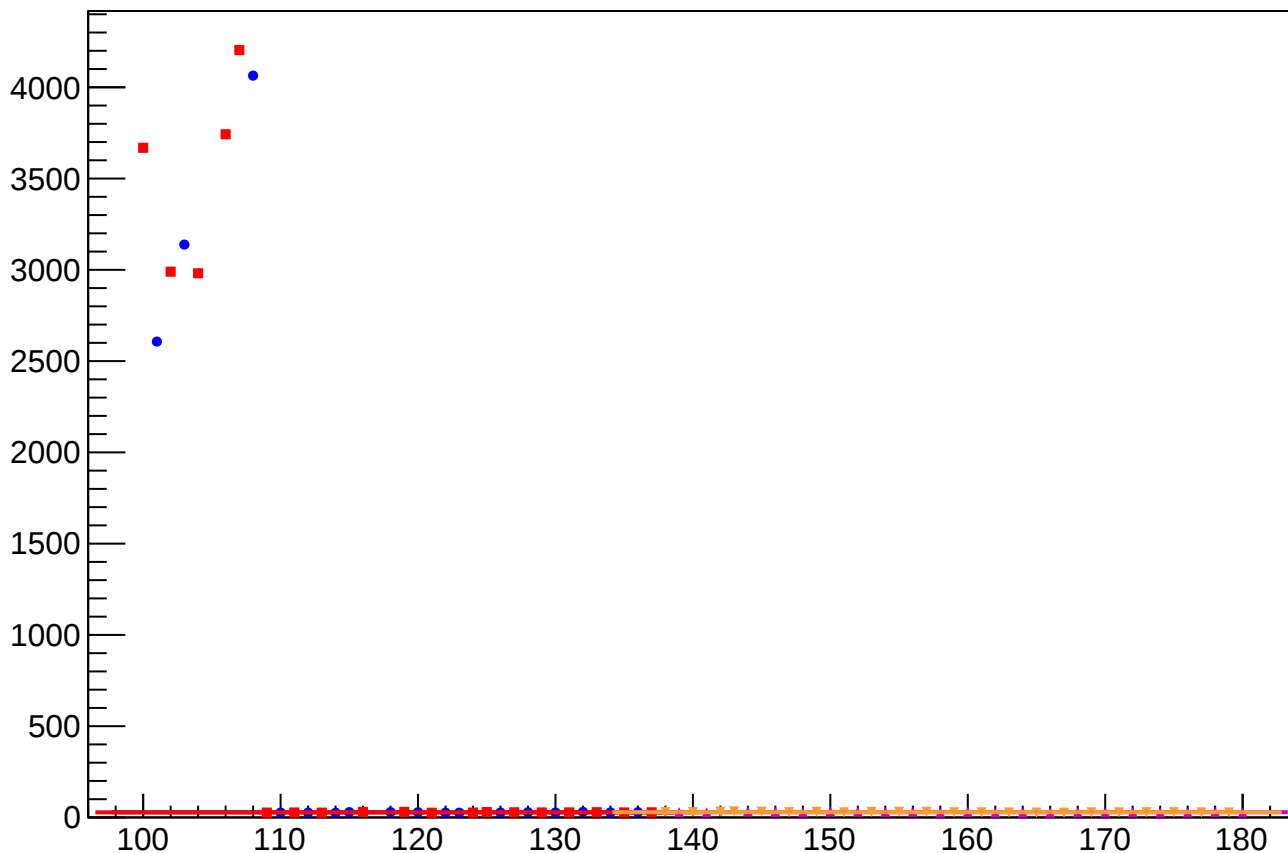
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 4.822 $\pm$ 6.181 χ^2 /NDF:44.2/37

Out: -2.332 $\pm$ 6.160 χ^2 /NDF:39.9/40

All: 1.233 $\pm$ 4.363 χ^2 /NDF: 84.9/78

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: 28.887+/-0.005 χ^2/NDF : 111736.3/21

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 28.797+/-0.005 χ^2/NDF : 128214.8/20

Left: 28.842+/-0.004 χ^2/NDF : 240113.0/42

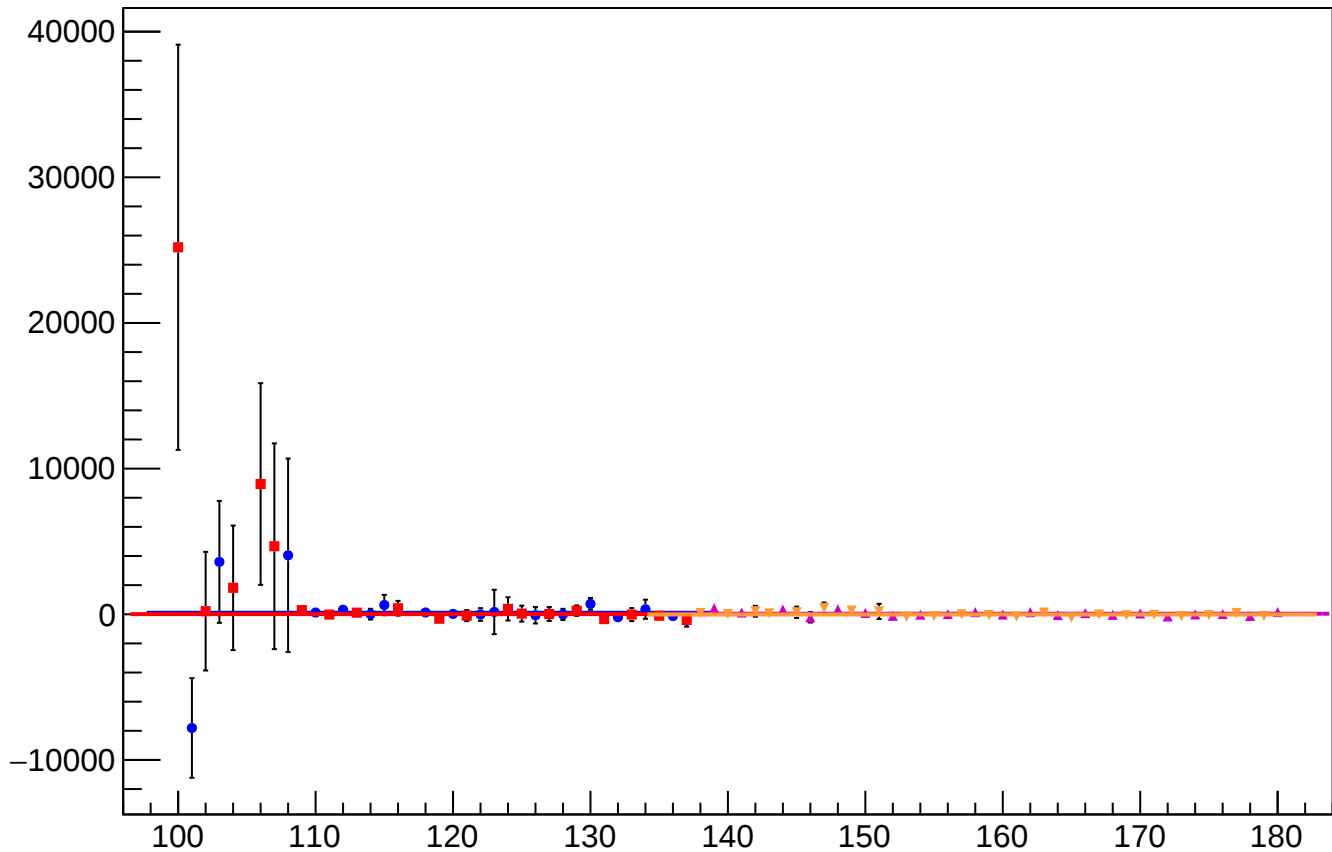
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.600+/-0.004 χ^2/NDF : 3161149.4/37

Out: 28.645+/-0.004 χ^2/NDF : 3600643.4/40

All: 28.623+/-0.003 χ^2/NDF : 6761845.5/78

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: -14.047 $\pm$ 53.732 χ^2 /NDF:6.0/21

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 38.243 $\pm$ 48.488 χ^2 /NDF:7.6/20

Left: 14.774 $\pm$ 35.998 χ^2 /NDF: 14.1/42

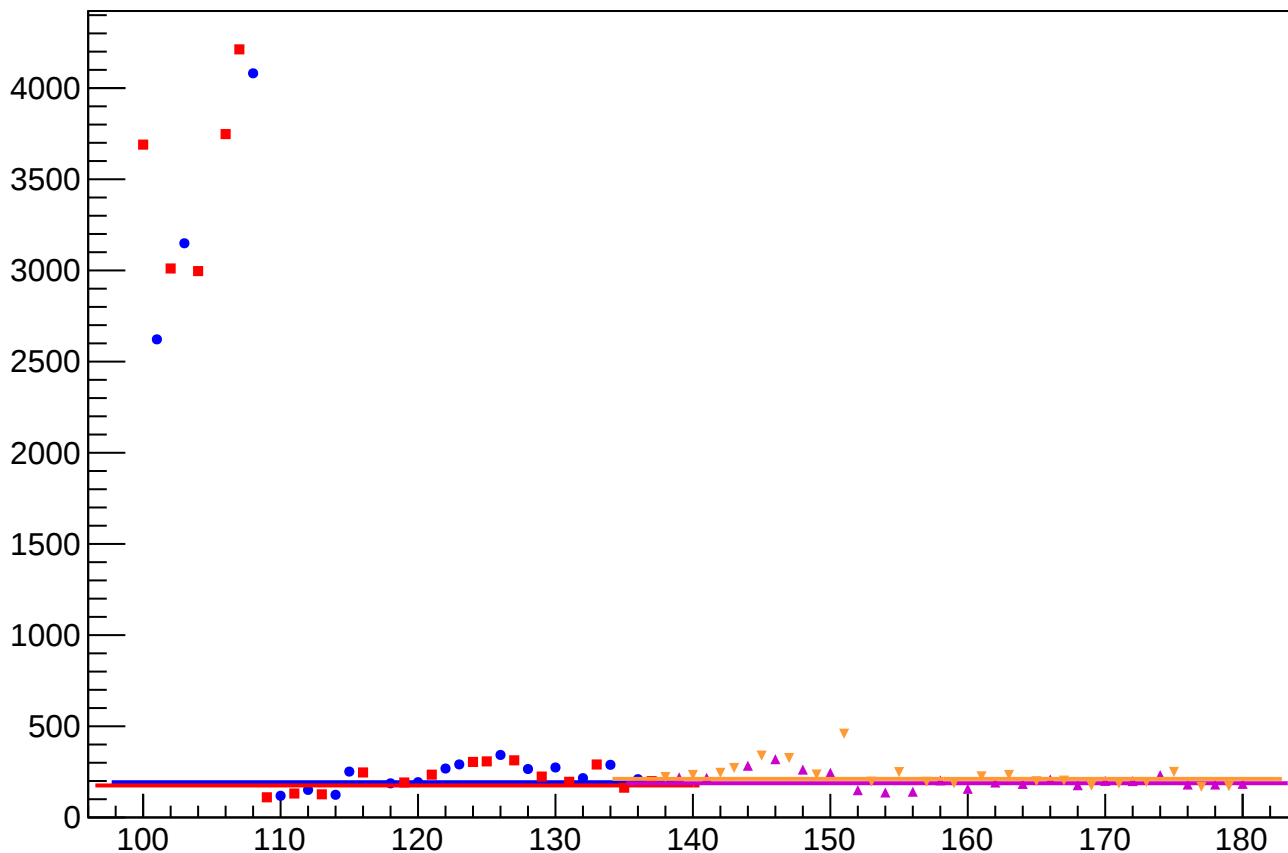
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 52.938 $\pm$ 42.512 χ^2 /NDF:20.4/37

Out: -6.419 $\pm$ 44.898 χ^2 /NDF:18.3/40

All: 24.879 $\pm$ 30.869 χ^2 /NDF: 39.6/78

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: 211.626+/-0.038 χ^2/NDF : 1413118.1/21

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 187.691+/-0.034 χ^2/NDF : 1345724.0/20

Left: 198.434+/-0.025 χ^2/NDF : 2977587.4/42

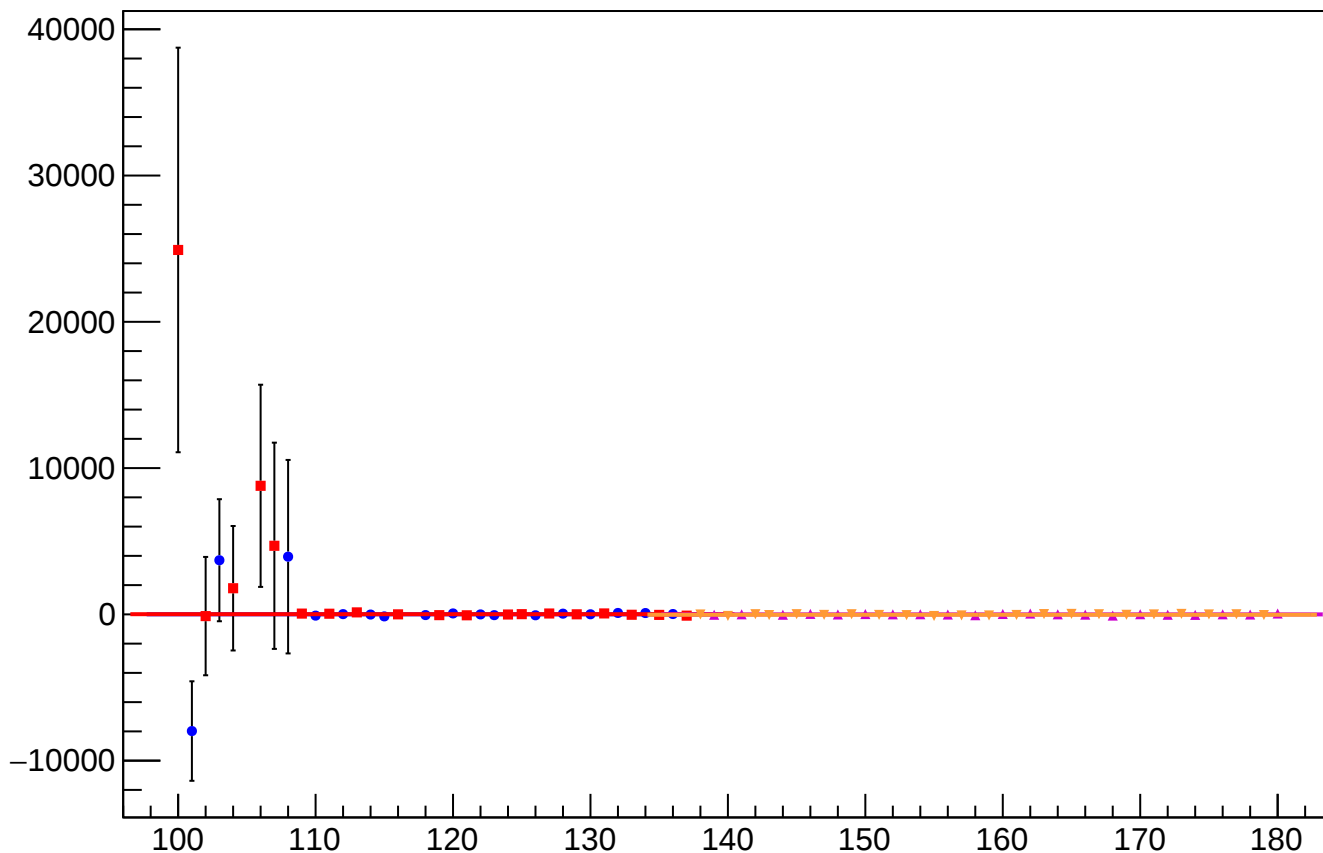
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.963+/-0.030 χ^2/NDF : 4887798.8/37

Out: 200.719+/-0.032 χ^2/NDF : 5851579.6/40

All: 194.520+/-0.022 χ^2/NDF : 10811683.4/78

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -25.722+/-8.507 χ^2/NDF :22.4/21

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -1.444+/-8.593 χ^2/NDF :15.8/20

Left: -13.705+/-6.046 χ^2/NDF : 42.3/42

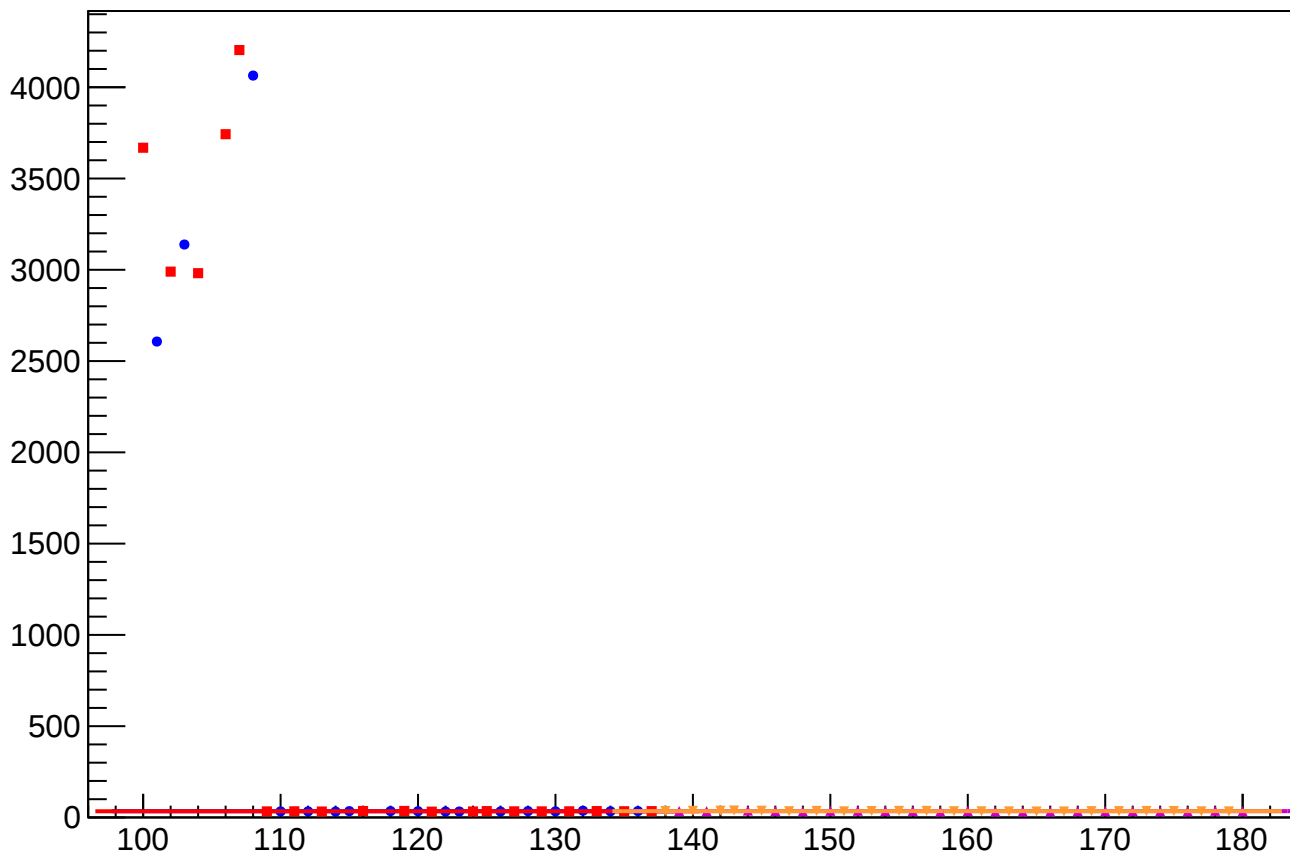
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: 0.072+/-7.448 χ^2/NDF :36.4/37

Out: -16.373+/-7.393 χ^2/NDF :49.0/40

All: -8.211+/-5.247 χ^2/NDF : 87.8/78

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: 34.613 $\pm$ 0.006 χ^2 /NDF: 53413.8/21

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.648 $\pm$ 0.006 χ^2 /NDF: 59227.1/20

Left: 34.630 $\pm$ 0.004 χ^2 /NDF: 112656.8/42

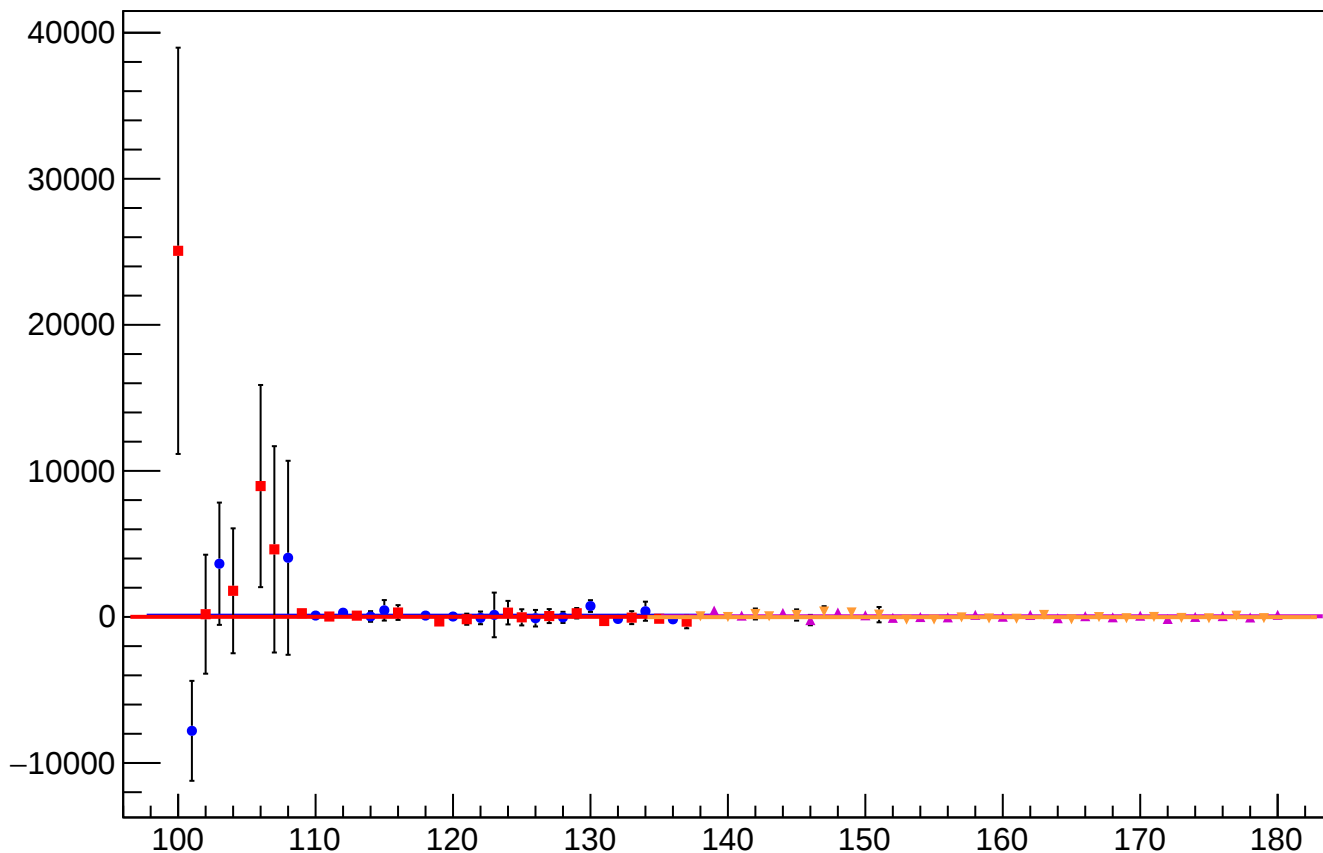
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.521 $\pm$ 0.005 χ^2 /NDF: 3067228.7/37

Out: 34.442 $\pm$ 0.005 χ^2 /NDF: 3508623.6/40

All: 34.481 $\pm$ 0.004 χ^2 /NDF: 6575964.8/78

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: -14.564+/-53.706 χ^2/NDF : 5.8/21

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 46.018+/-48.441 χ^2/NDF : 6.5/20

Left: 18.841+/-35.971 χ^2/NDF : 13.0/42

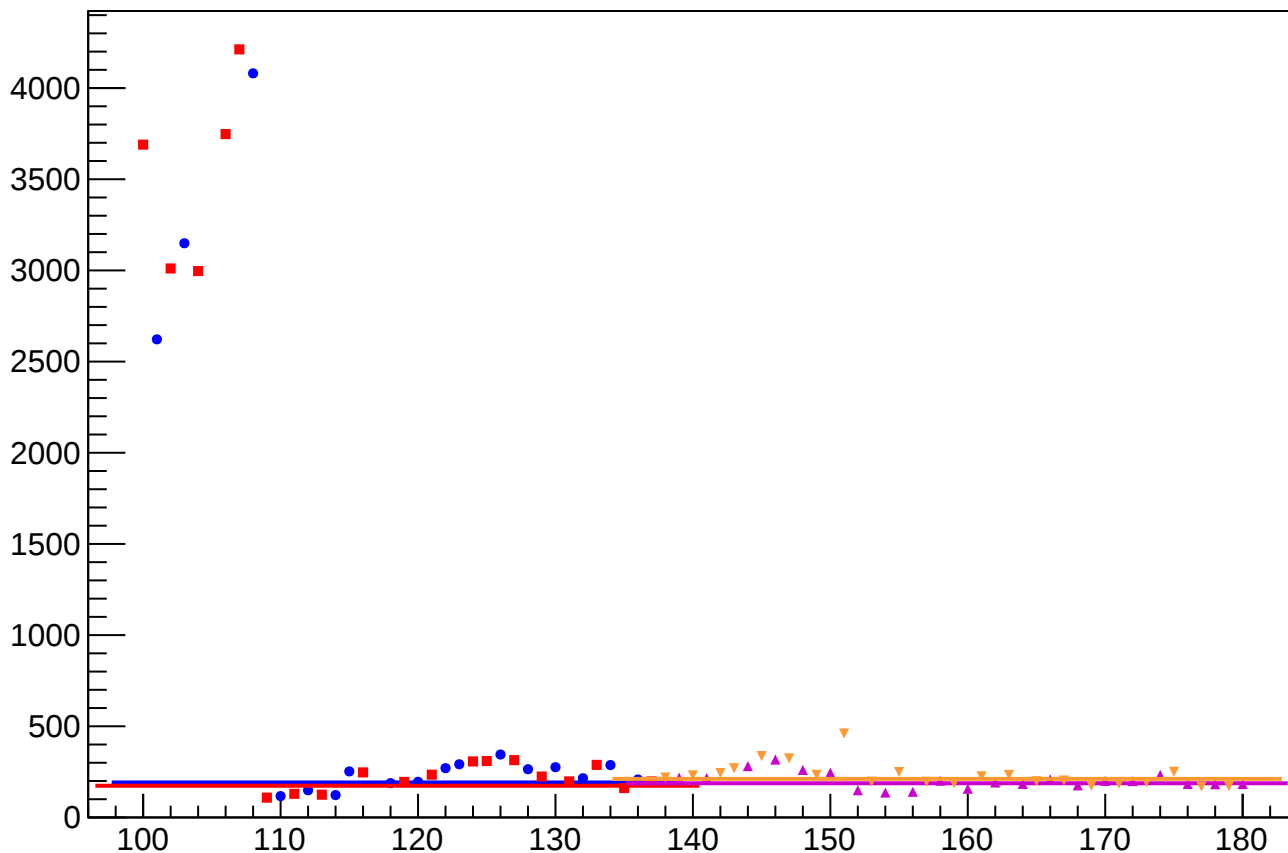
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 55.333+/-42.431 χ^2/NDF : 19.0/37

Out: -7.912+/-44.796 χ^2/NDF : 16.9/40

All: 25.424+/-30.805 χ^2/NDF : 37.0/78

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: 211.580+/-0.038 χ^2/NDF :1389362.0/21

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 187.517+/-0.034 χ^2/NDF :1333514.8/20

Left: 198.312+/-0.025 χ^2/NDF : 2944274.8/42

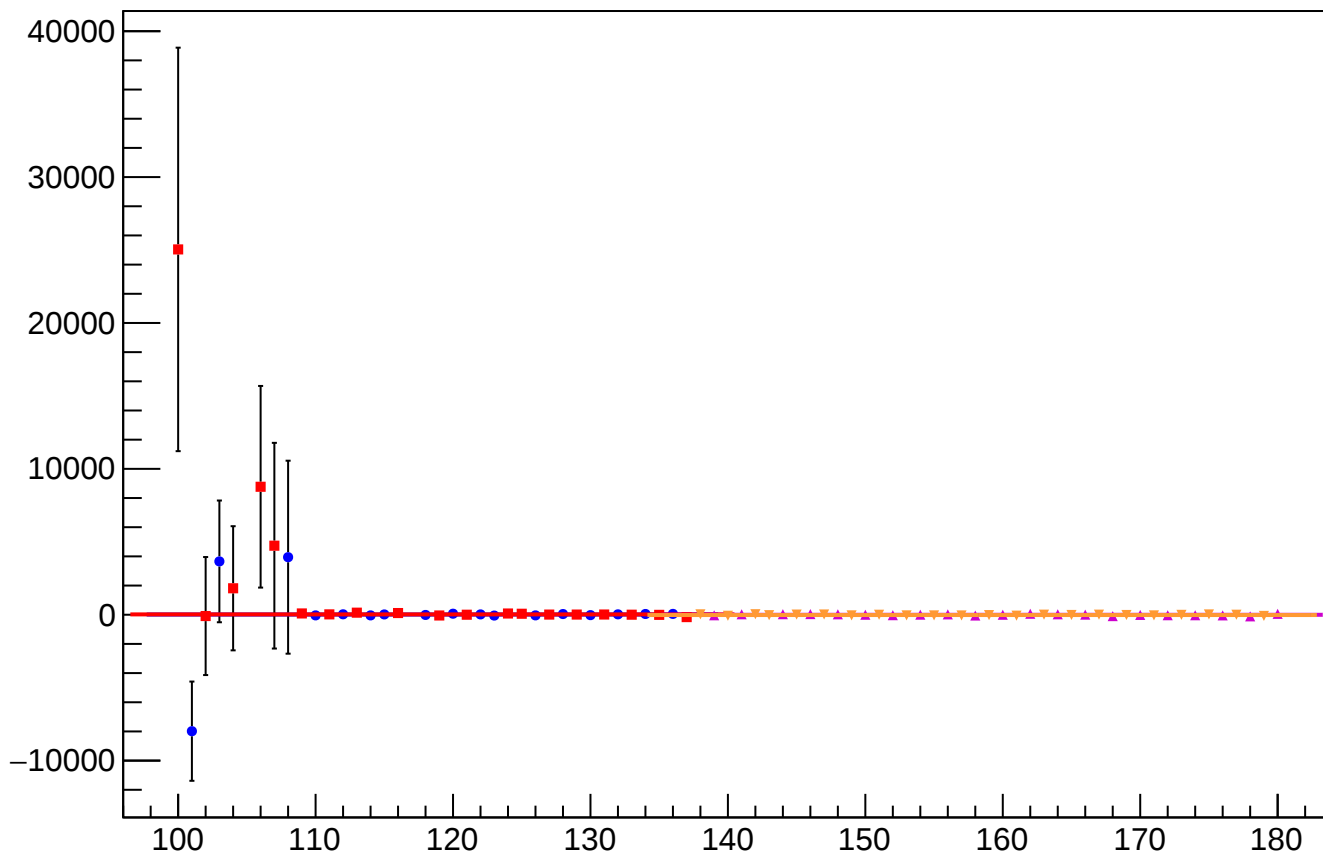
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 188.533+/-0.030 χ^2/NDF :4910351.7/37

Out: 200.124+/-0.032 χ^2/NDF :5899875.2/40

All: 194.014+/-0.022 χ^2/NDF : 10880806.2/78

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: -21.033+/-7.744 χ^2/NDF : 16.9/21

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: -4.330+/-7.807 χ^2/NDF : 37.1/20

Left: -12.749+/-5.498 χ^2/NDF : 56.3/42

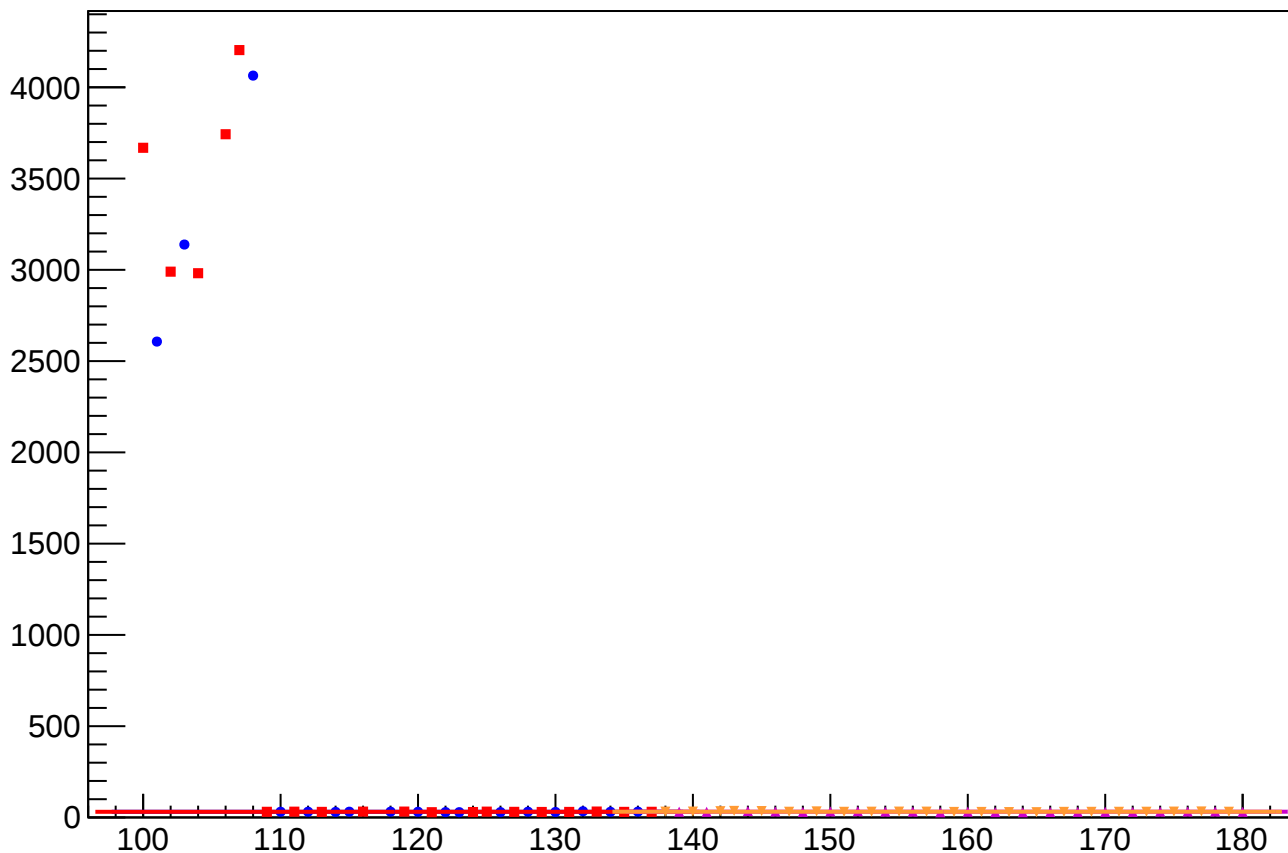
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 0.234+/-6.773 χ^2/NDF : 53.7/37

Out: -10.227+/-6.736 χ^2/NDF : 52.4/40

All: -5.025+/-4.776 χ^2/NDF : 107.3/78

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: 31.484 $\pm$ 0.005 χ^2 /NDF: 76615.1/21

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.443 $\pm$ 0.006 χ^2 /NDF: 87147.6/20

Left: 31.464 $\pm$ 0.004 χ^2 /NDF: 163790.8/42

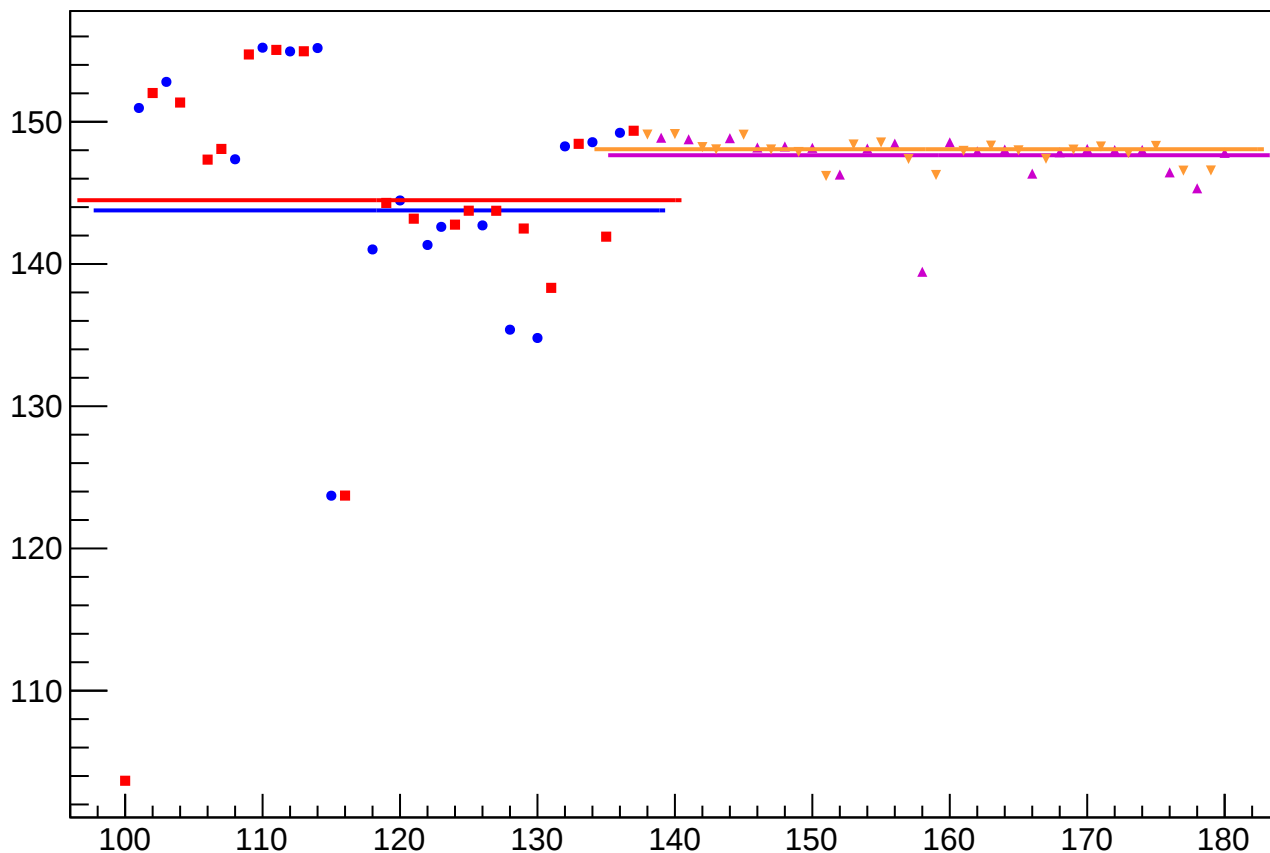
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.365 $\pm$ 0.005 χ^2 /NDF: 3102385.7/37

Out: 31.357 $\pm$ 0.005 χ^2 /NDF: 3537764.3/40

All: 31.361 $\pm$ 0.003 χ^2 /NDF: 6640151.2/78

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.071 $\pm$ 0.000 χ^2 /NDF: 65515368.5/21

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.648 $\pm$ 0.000 χ^2 /NDF: 343558335.9/20

Left: 147.865 $\pm$ 0.000 χ^2 /NDF: 416649857.4/42

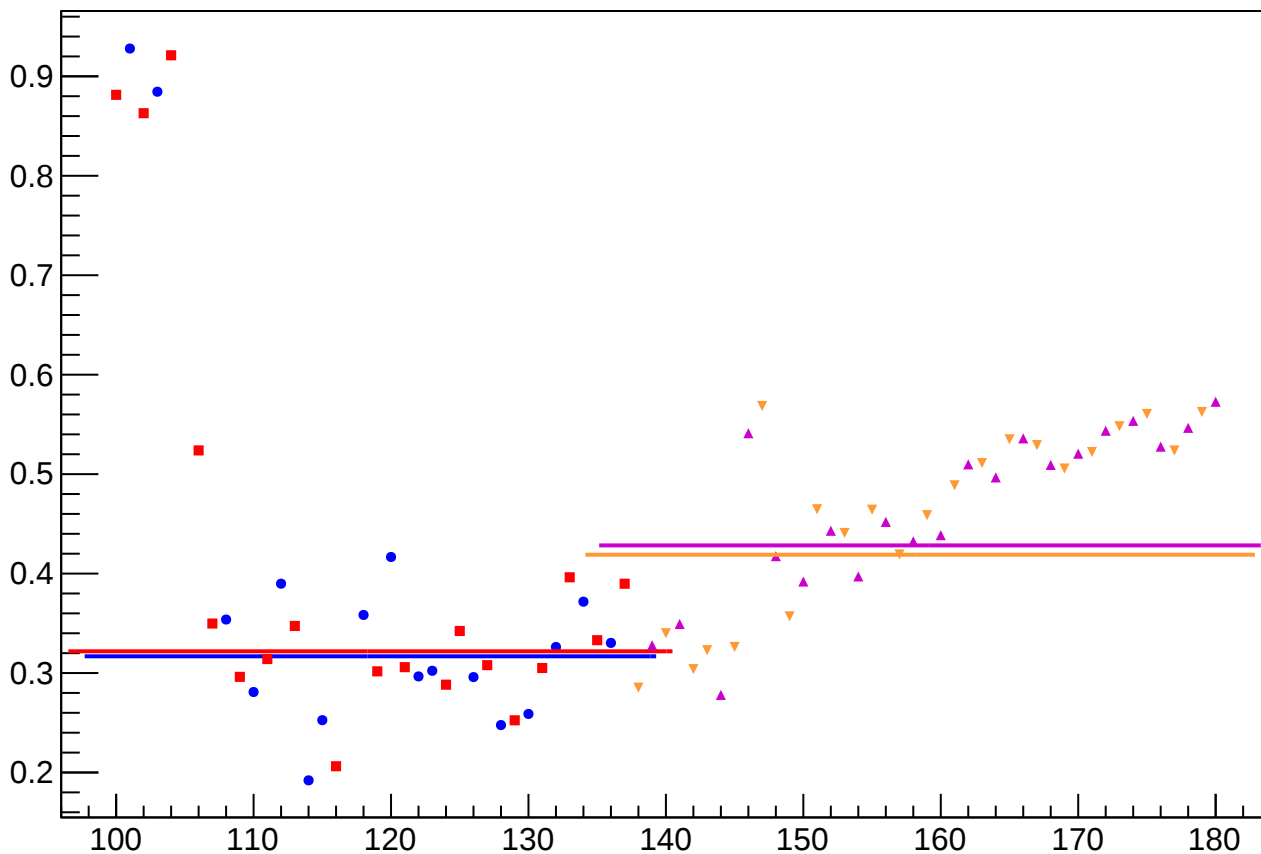
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.087 $\pm$ 0.000 χ^2 /NDF: 4376389707.0/37

Out: 146.658 $\pm$ 0.000 χ^2 /NDF: 4689793613.7/40

All: 146.378 $\pm$ 0.000 χ^2 /NDF: 9089163291.5

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.419 $\pm$ 0.000 χ^2 /NDF:1590479.3/21

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.428 $\pm$ 0.000 χ^2 /NDF:1356758.1/20

Left: 0.424 $\pm$ 0.000 χ^2 /NDF: 2954687.0/42

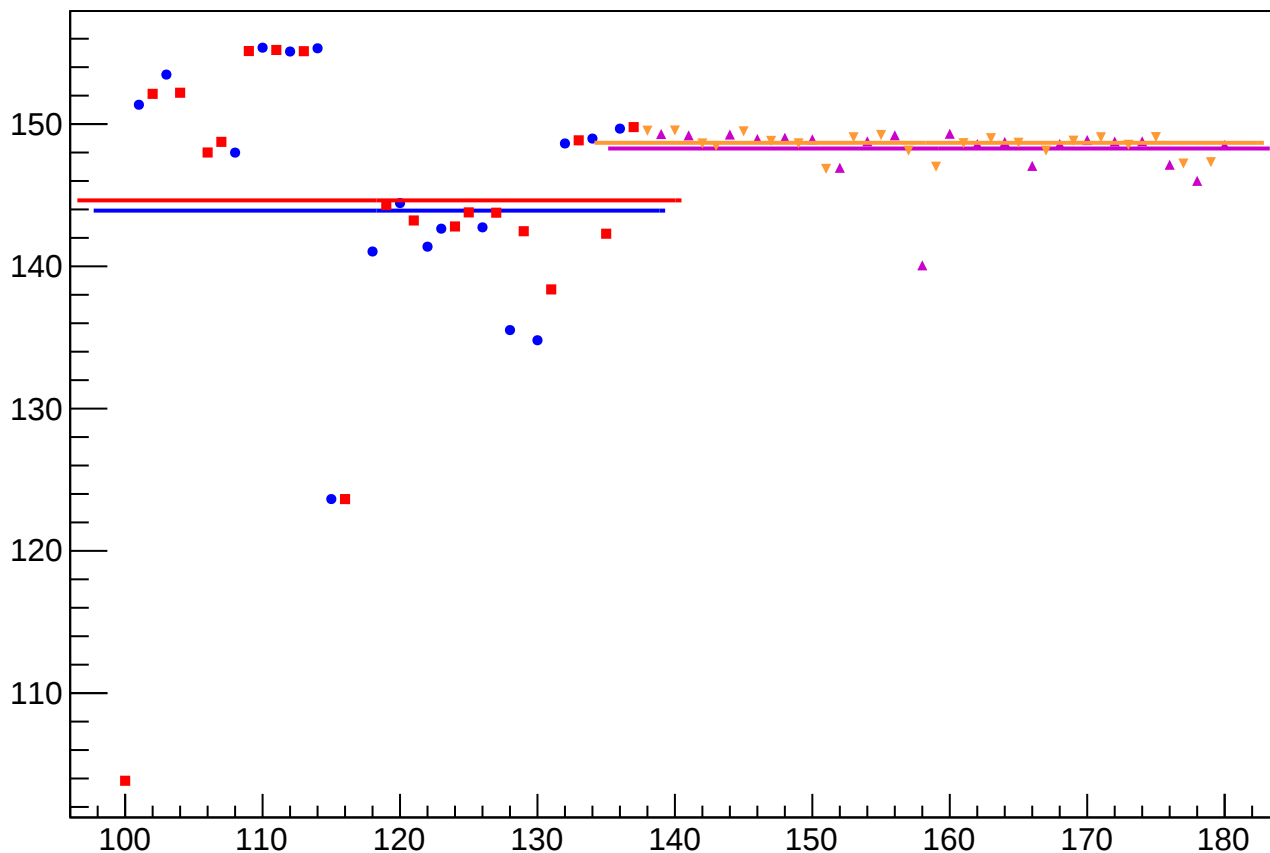
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.383 $\pm$ 0.000 χ^2 /NDF:3462799.6/37

Out: 0.381 $\pm$ 0.000 χ^2 /NDF:3454813.6/40

All: 0.382 $\pm$ 0.000 χ^2 /NDF: 6918689.4/78

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.684 $\pm$ 0.000 χ^2 /NDF: 52473150.3/21

Right Out: 144.637 $\pm$ 0.000 χ^2 /NDF: 4210524953.9/18

Left In: 148.283 $\pm$ 0.000 χ^2 /NDF: 332037254.5/20

Left: 148.488 $\pm$ 0.000 χ^2 /NDF: 391175723.4/42

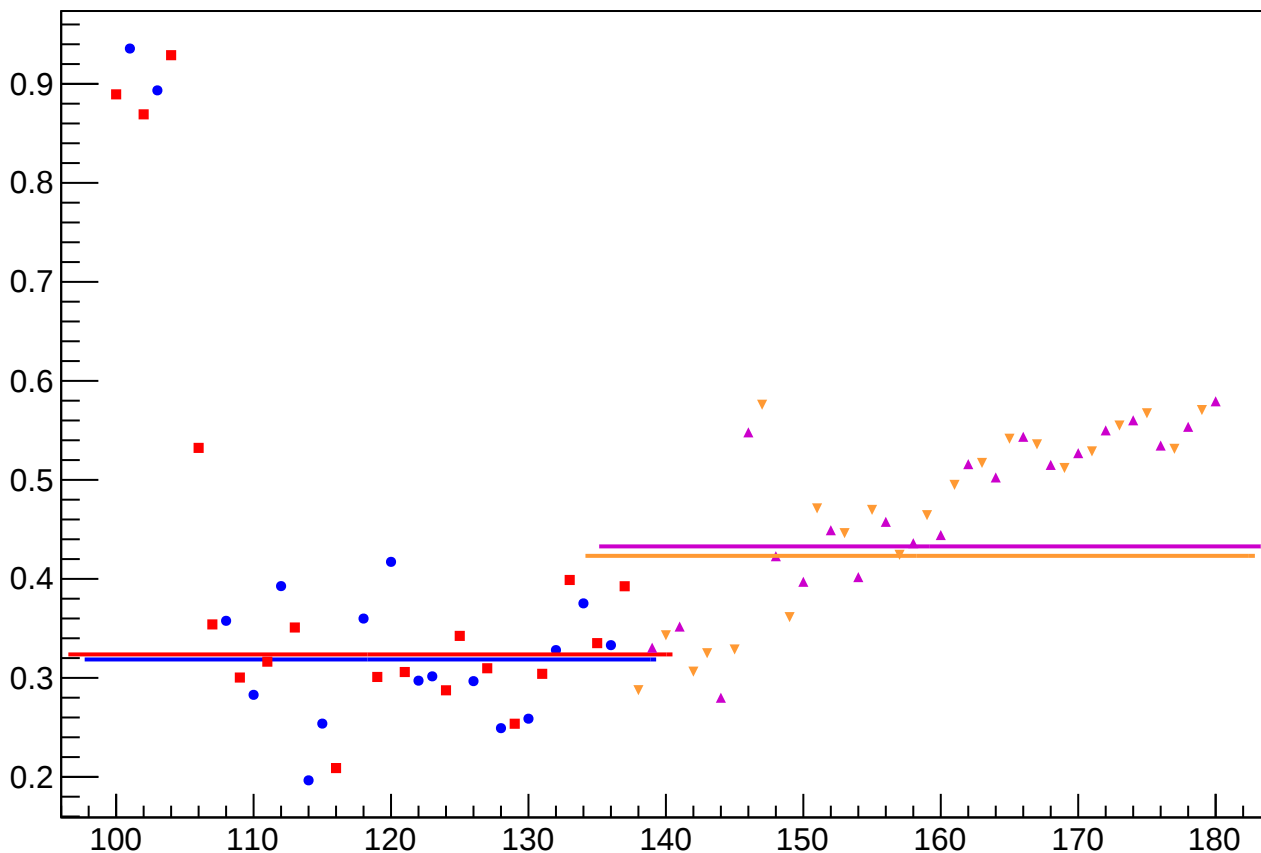
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.515 $\pm$ 0.000 χ^2 /NDF: 4541041566.7/37

Out: 147.079 $\pm$ 0.000 χ^2 /NDF: 4815856814.0/40

All: 146.802 $\pm$ 0.000 χ^2 /NDF: 9378947178.8

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.423 $\pm$ 0.000 χ^2/NDF :1619718.6/21

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1220898.3/18

Left In: 0.433 $\pm$ 0.000 χ^2/NDF :1380471.2/20

Left: 0.428 $\pm$ 0.000 χ^2/NDF : 3007752.1/42

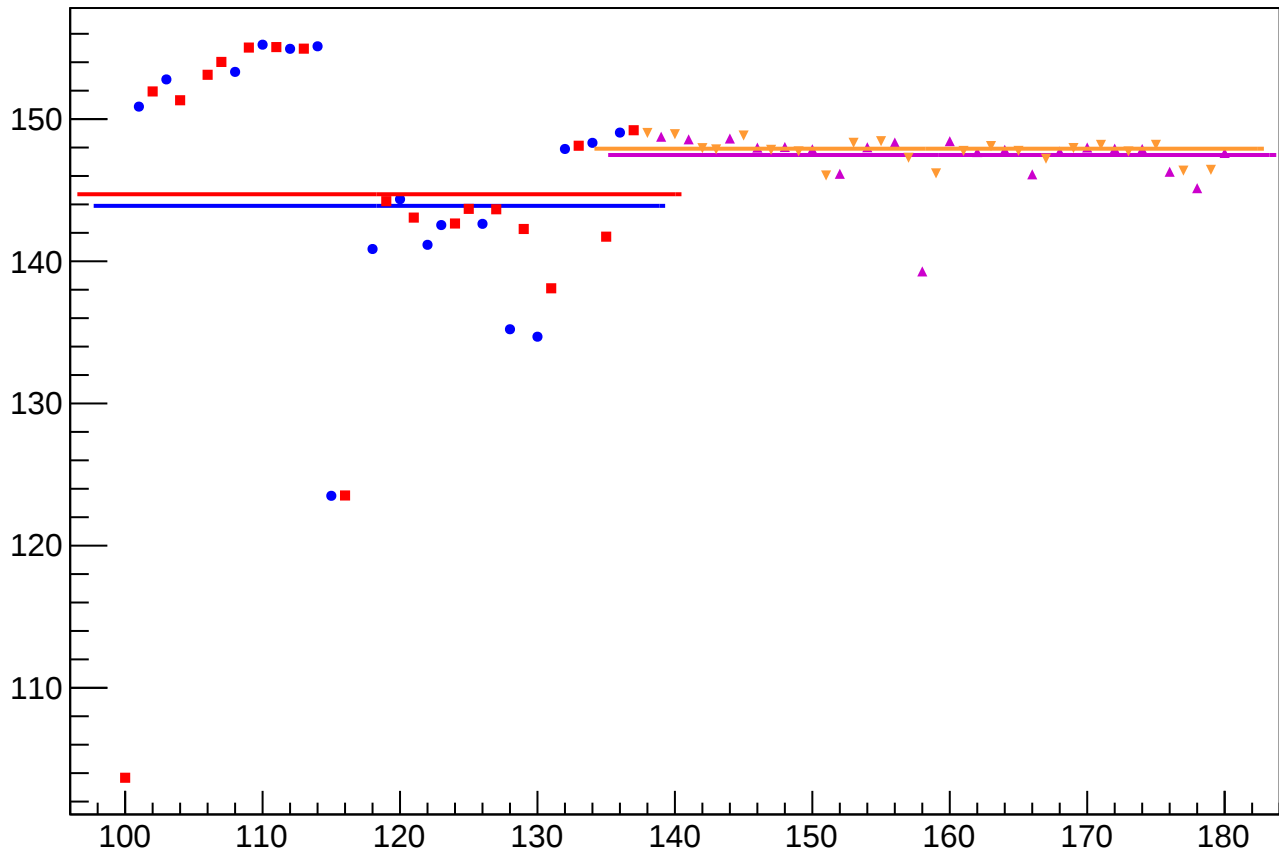
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2503090.8/35

In: 0.387 $\pm$ 0.000 χ^2/NDF :3515664.3/37

Out: 0.384 $\pm$ 0.000 χ^2/NDF :3509876.8/40

All: 0.385 $\pm$ 0.000 χ^2/NDF : 7026605.6/78

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 ± 0.000 $\chi^2/\text{NDF}: 3749888331.0/16$

Left Out: 147.919 ± 0.000 $\chi^2/\text{NDF}: 64017350.2/21$

Right Out: 144.715 ± 0.000 $\chi^2/\text{NDF}: 4474458988.7/18$

Left In: 147.476 ± 0.000 $\chi^2/\text{NDF}: 342540473.3/20$

Left: 147.703 ± 0.000 $\chi^2/\text{NDF}: 414822954.6/42$

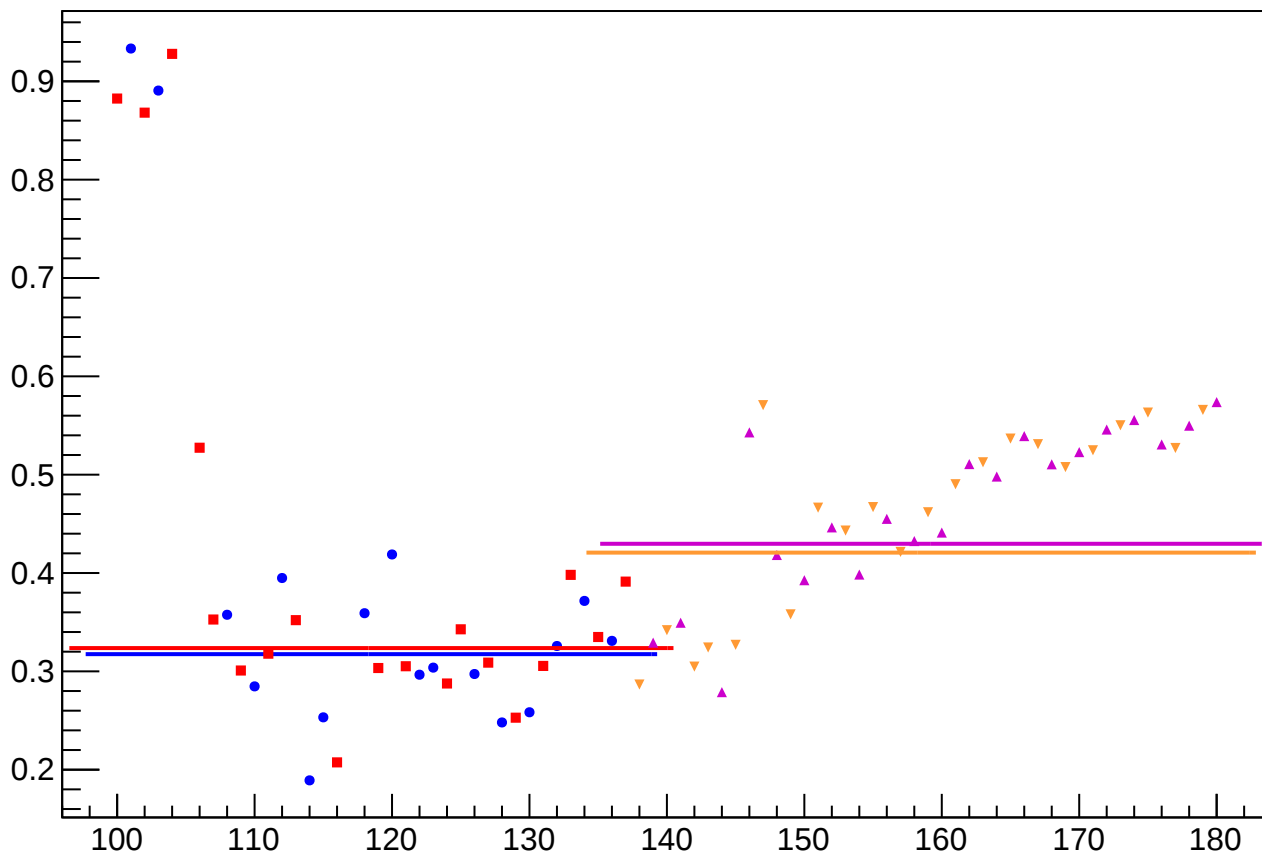
Right: 144.309 ± 0.000 $\chi^2/\text{NDF}: 8242891510.2/35$

In: 146.036 ± 0.000 $\chi^2/\text{NDF}: 4515337607.8/37$

Out: 146.658 ± 0.000 $\chi^2/\text{NDF}: 4886825908.4/40$

All: 146.352 ± 0.000 $\chi^2/\text{NDF}: 9429247684.9$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.421 $\pm$ 0.000 χ^2/NDF : 1594216.2/21

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1221676.7/18

Left In: 0.430 $\pm$ 0.000 χ^2/NDF : 1364563.0/20

Left: 0.425 $\pm$ 0.000 χ^2/NDF : 2965556.6/42

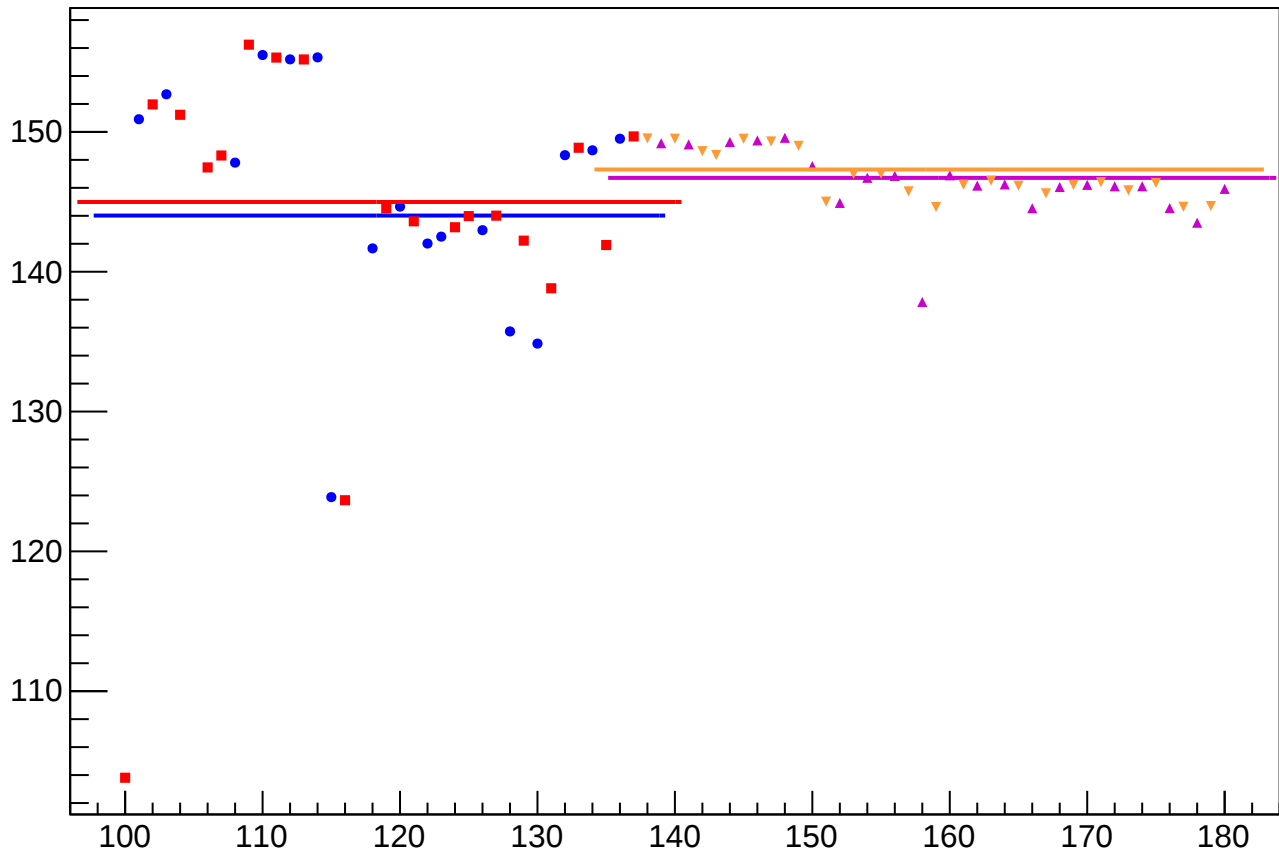
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2516974.9/35

In: 0.385 $\pm$ 0.000 χ^2/NDF : 3490397.8/37

Out: 0.383 $\pm$ 0.000 χ^2/NDF : 3455634.0/40

All: 0.384 $\pm$ 0.000 χ^2/NDF : 6946590.1/78

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 ± 0.000 $\chi^2/\text{NDF}: 3238525527.6/16$

Left Out: 147.314 ± 0.000 $\chi^2/\text{NDF}: 251645993.3/21$

Right Out: 144.990 ± 0.000 $\chi^2/\text{NDF}: 3853449012.9/18$

Left In: 146.712 ± 0.000 $\chi^2/\text{NDF}: 553401036.0/20$

Left: 147.020 ± 0.000 $\chi^2/\text{NDF}: 819468243.6/42$

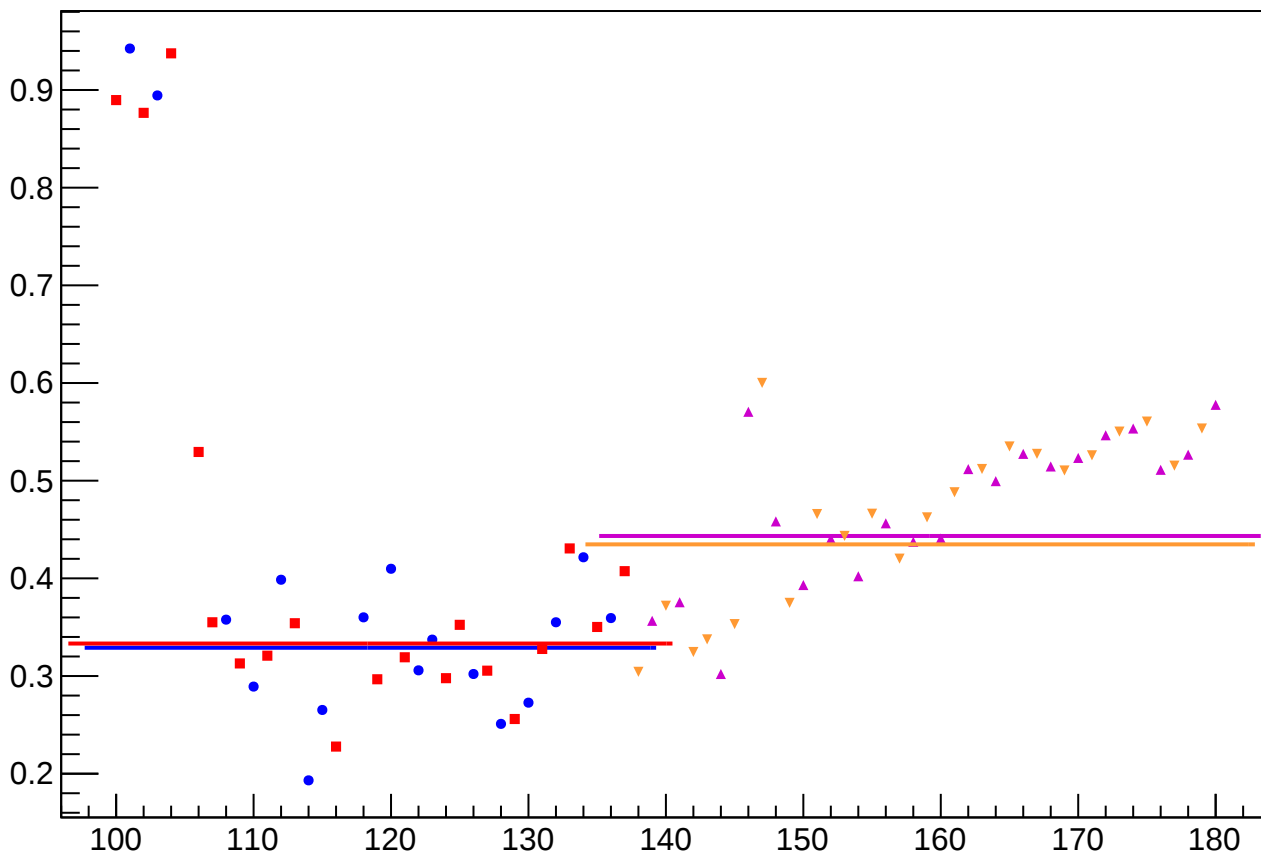
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7116582298.0/35$

In: 145.641 ± 0.000 $\chi^2/\text{NDF}: 4016796695.0/37$

Out: 146.401 ± 0.000 $\chi^2/\text{NDF}: 4278003902.6/40$

All: 146.028 ± 0.000 $\chi^2/\text{NDF}: 8332821569.4$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.435+/-0.000 χ^2/NDF :1223891.0/21

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.443+/-0.000 χ^2/NDF :1015322.3/20

Left: 0.439+/-0.000 χ^2/NDF : 2245097.3/42

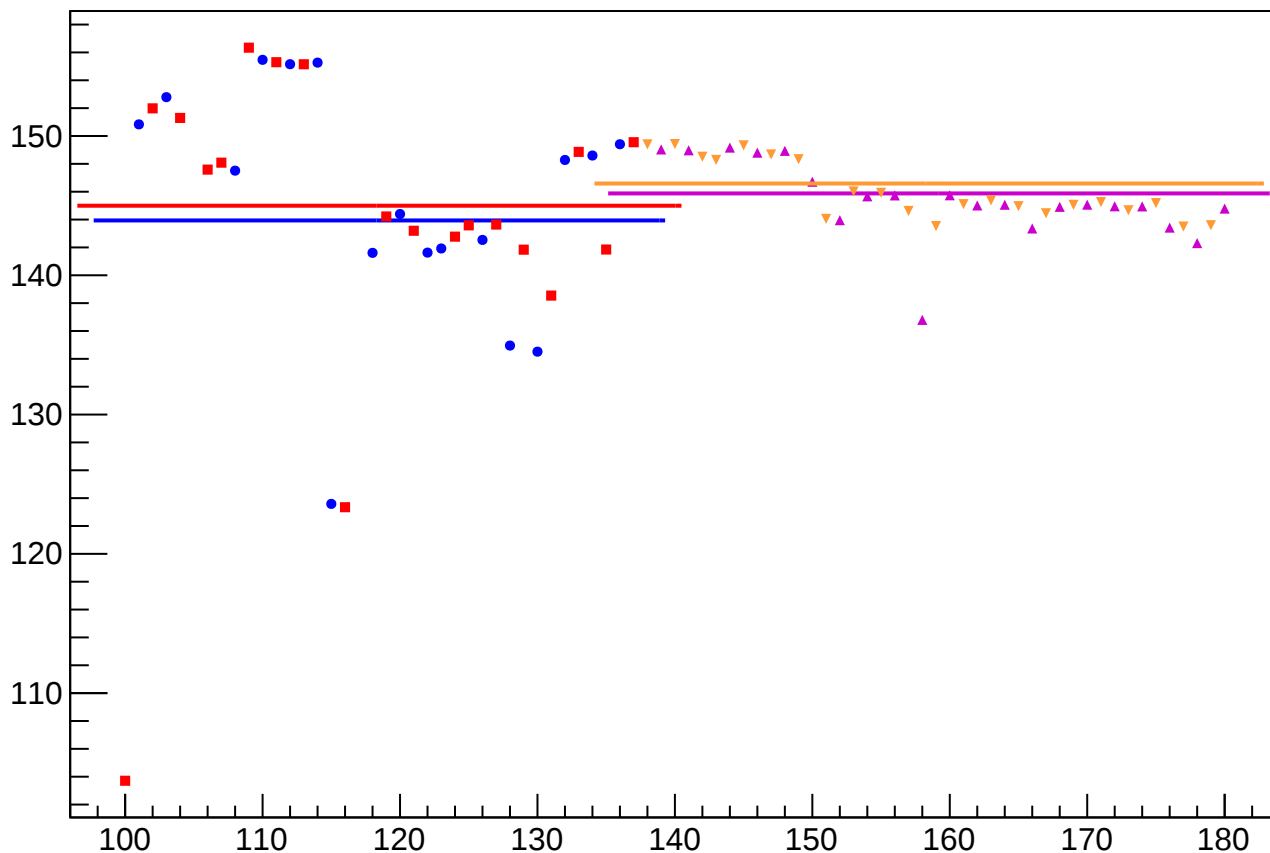
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.398+/-0.000 χ^2/NDF :3102430.3/37

Out: 0.395+/-0.000 χ^2/NDF :3066452.9/40

All: 0.396+/-0.000 χ^2/NDF : 6170065.6/78

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.588 ± 0.000 $\chi^2/\text{NDF}: 382456140.7/21$

Right Out: 144.995 ± 0.000 $\chi^2/\text{NDF}: 3934069043.2/18$

Left In: 145.877 ± 0.000 $\chi^2/\text{NDF}: 686640869.2/20$

Left: 146.241 ± 0.000 $\chi^2/\text{NDF}: 1089121844.6/42$

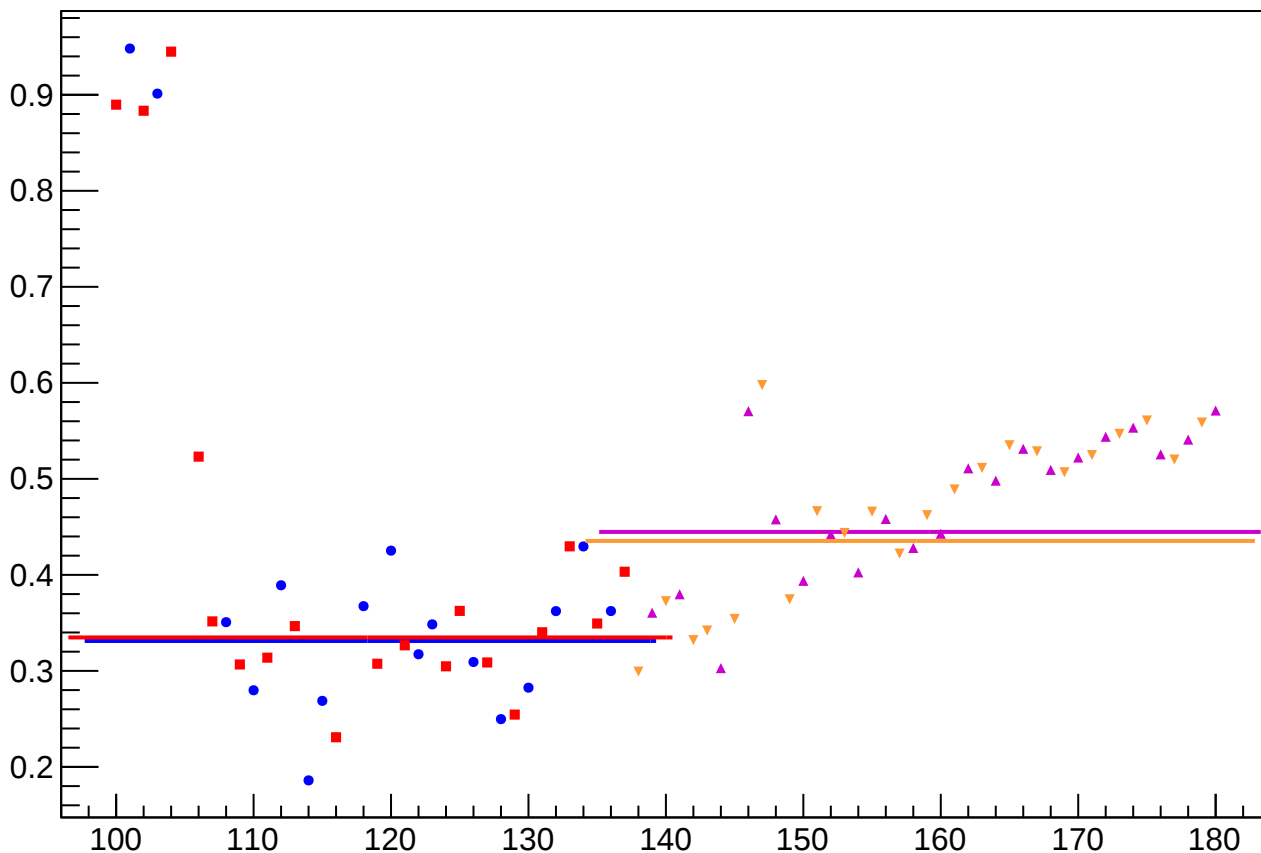
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.111 ± 0.000 $\chi^2/\text{NDF}: 4180917212.6/37$

Out: 145.965 ± 0.000 $\chi^2/\text{NDF}: 4397123552.7/40$

All: 145.547 ± 0.000 $\chi^2/\text{NDF}: 8625675724.8$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.435+/-0.000 χ^2/NDF : 1220924.3/21

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.445+/-0.000 χ^2/NDF : 998810.3/20

Left: 0.440+/-0.000 χ^2/NDF : 2226740.8/42

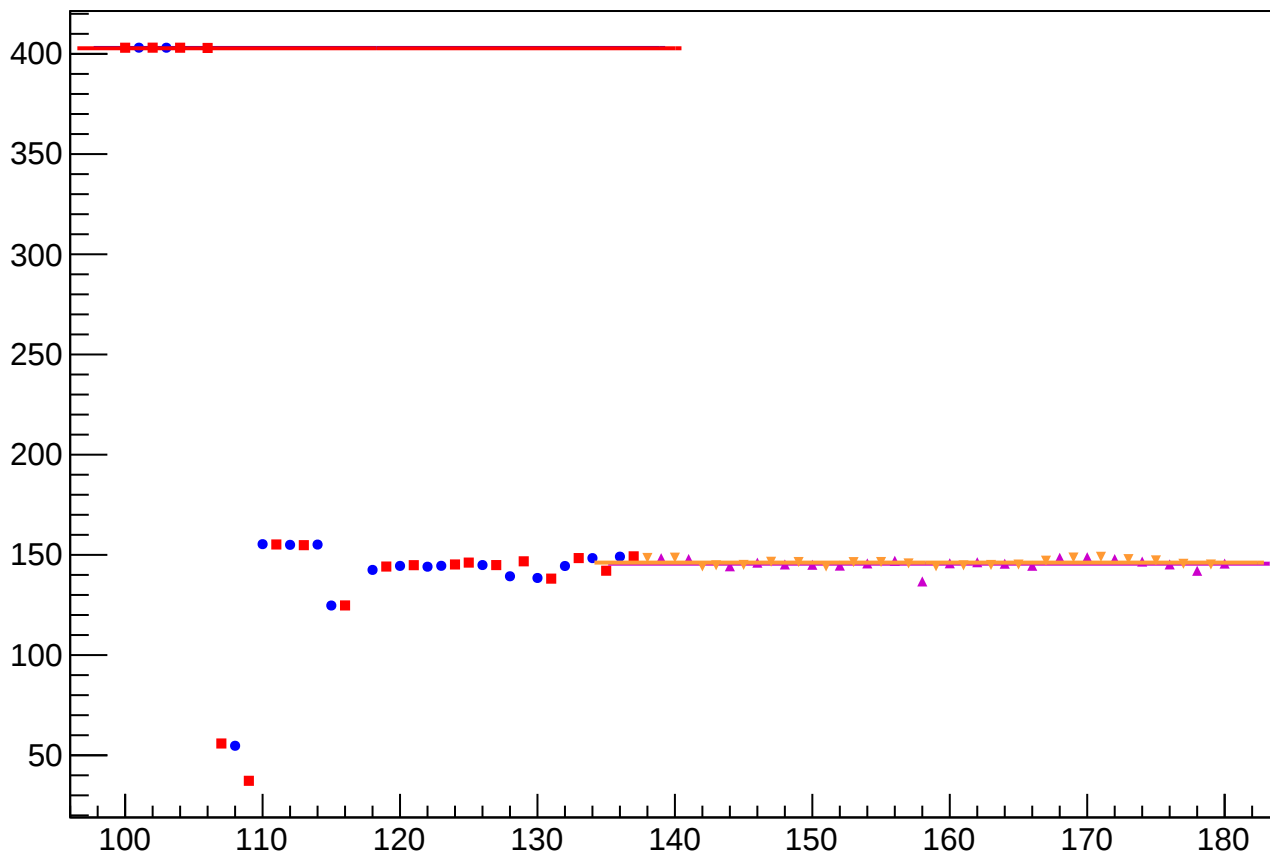
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.400+/-0.000 χ^2/NDF : 3082945.0/37

Out: 0.396+/-0.000 χ^2/NDF : 3034721.2/40

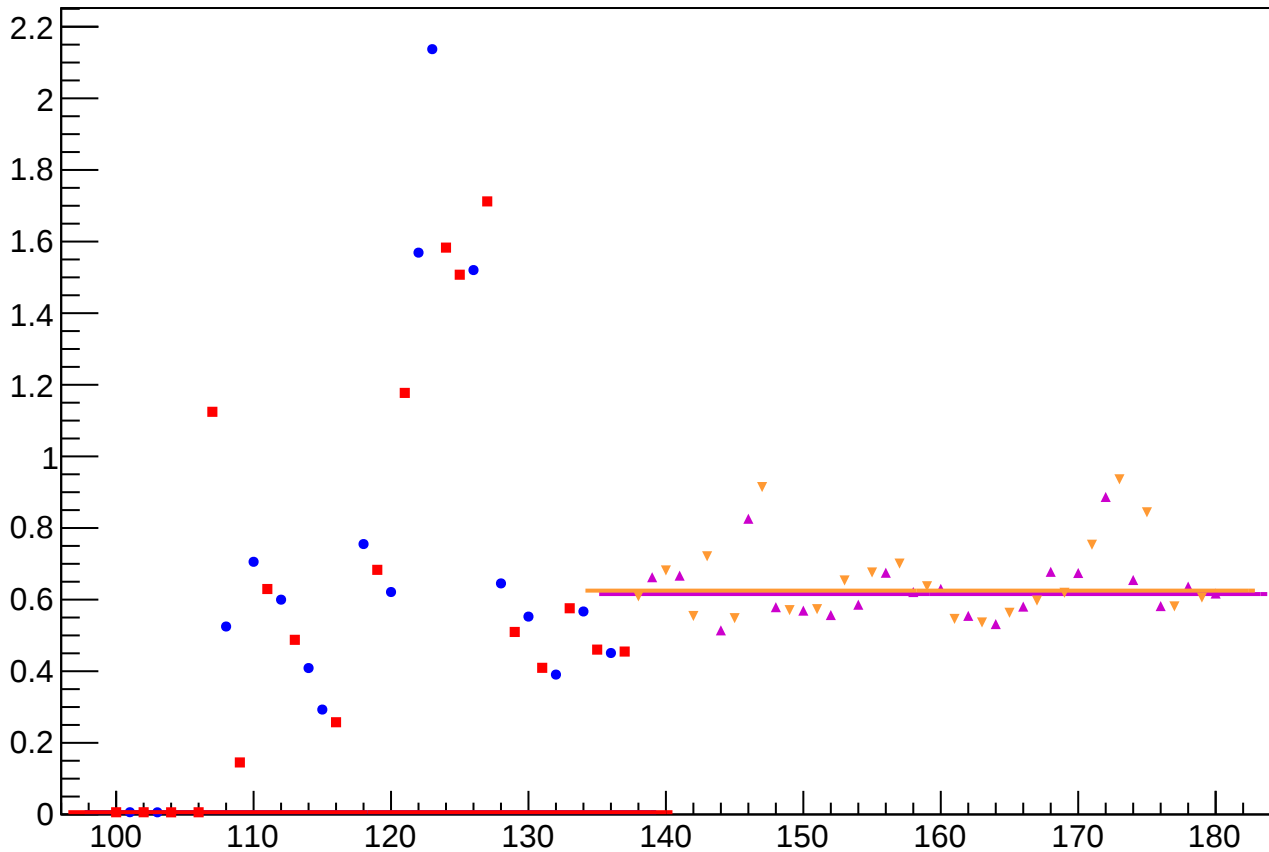
All: 0.398+/-0.000 χ^2/NDF : 6119599.7/78

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 145.872+/-0.000	χ^2/NDF : 273431266.5/42
Left Out: 146.145+/-0.000	χ^2/NDF : 76766697.0/21	Right: 402.873+/-0.000	χ^2/NDF : 4201017642924.7/16
Right Out: 402.799+/-0.000	χ^2/NDF : 3103890772575.4/18	In: 402.681+/-0.000	χ^2/NDF : 3311160477210.4/31
Left In: 145.606+/-0.000	χ^2/NDF : 191877500.5/20	Out: 402.562+/-0.000	χ^2/NDF : 5243814641680.4/42
		All: 402.618+/-0.000	χ^2/NDF : 855520932668.5/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.625+/-0.000 χ^2/NDF : 559716.8/21

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.616+/-0.000 χ^2/NDF : 352129.5/20

Left: 0.620+/-0.000 χ^2/NDF : 914885.0/42

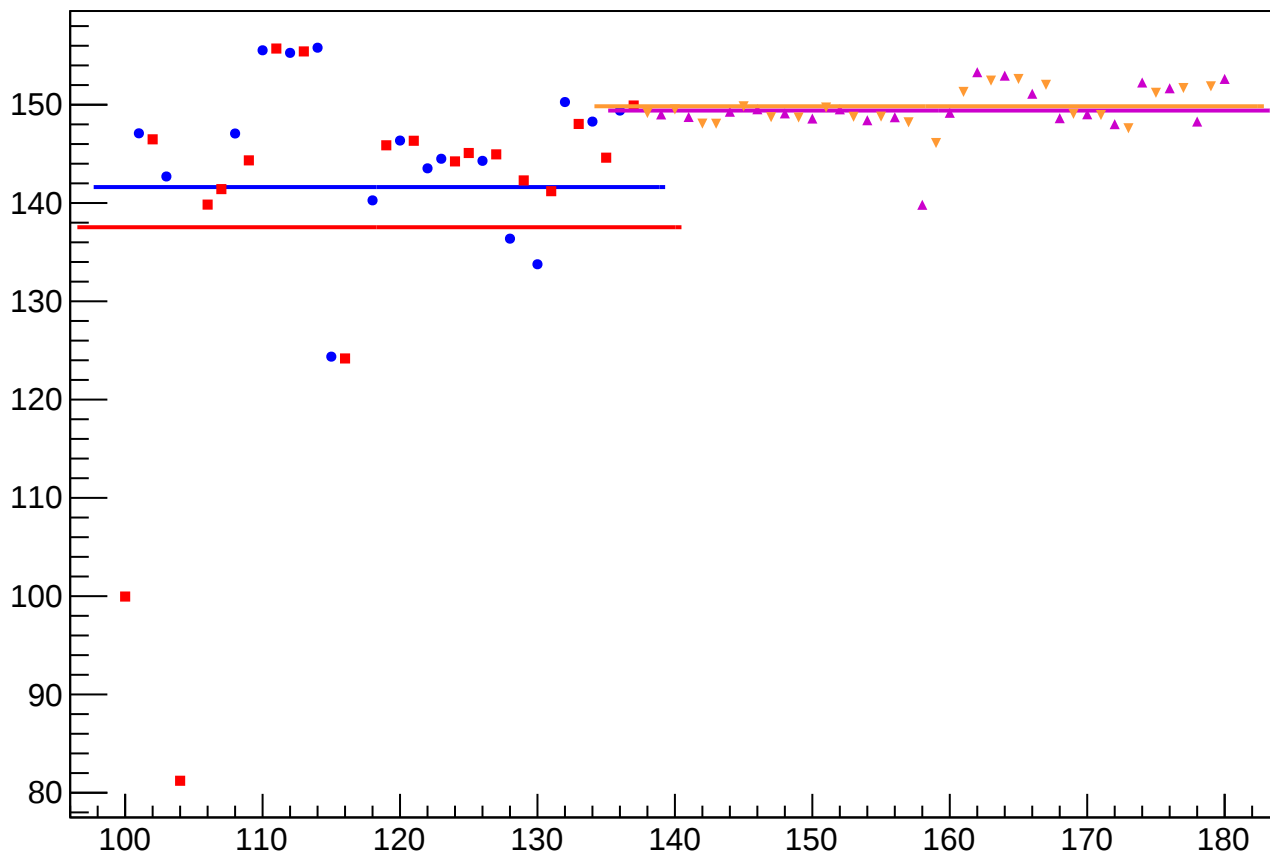
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 34328340.8/37

Out: 0.007+/-0.000 χ^2/NDF : 34650548.8/40

All: 0.007+/-0.000 χ^2/NDF : 68979188.9/78

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.843 $\pm$ 0.000 χ^2 /NDF: 152805134.3/21

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 149.408 $\pm$ 0.000 χ^2 /NDF: 433147525.2/20

Left: 149.629 $\pm$ 0.000 χ^2 /NDF: 590414159.3/42

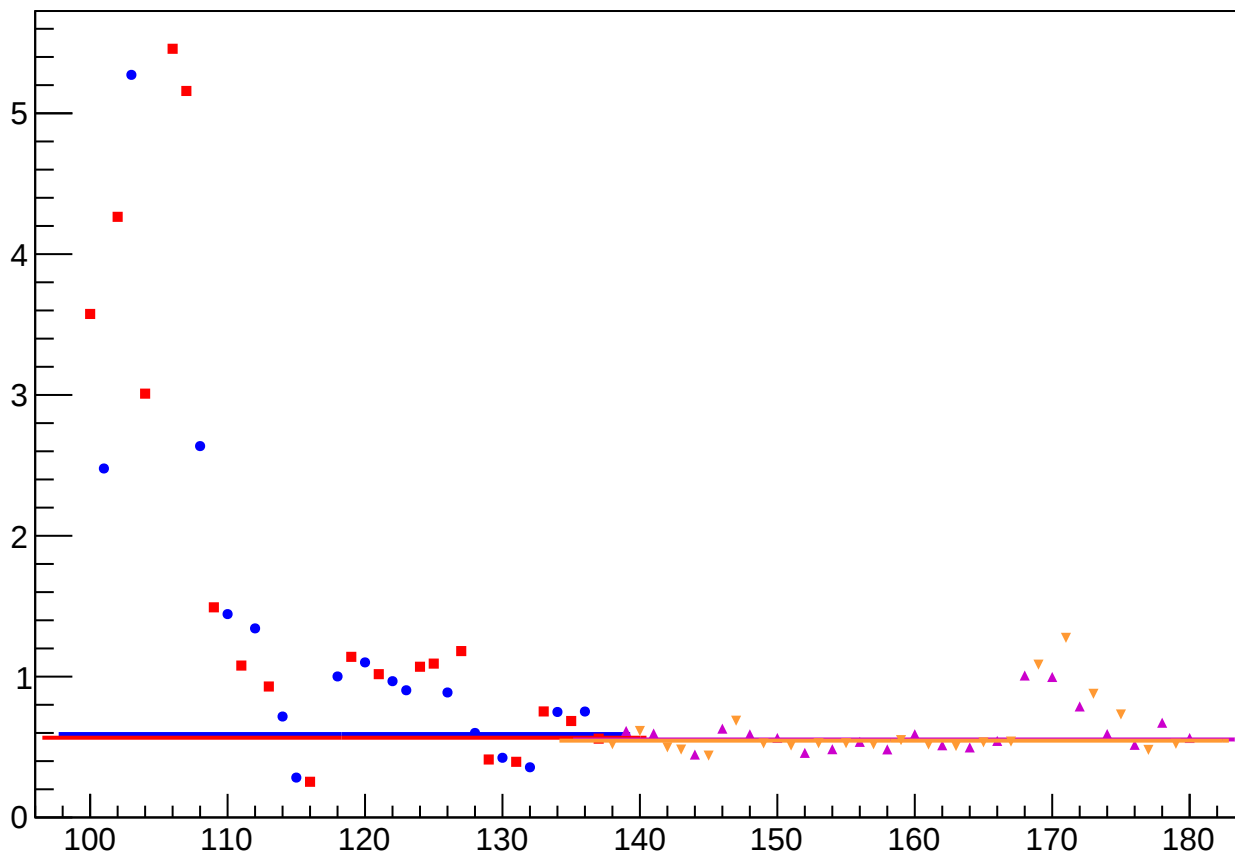
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 148.011 $\pm$ 0.000 χ^2 /NDF: 1918576640.1/37

Out: 147.607 $\pm$ 0.000 χ^2 /NDF: 2784979156.0/40

All: 147.806 $\pm$ 0.000 χ^2 /NDF: 4708232353.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.545 $\pm$ 0.000 χ^2/NDF :1345929.1/21

Right Out: 0.566 $\pm$ 0.000 χ^2/NDF : 4682140.9/18

Left In: 0.554 $\pm$ 0.000 χ^2/NDF :1015461.1/20

Left: 0.549 $\pm$ 0.000 χ^2/NDF : 2364632.4/42

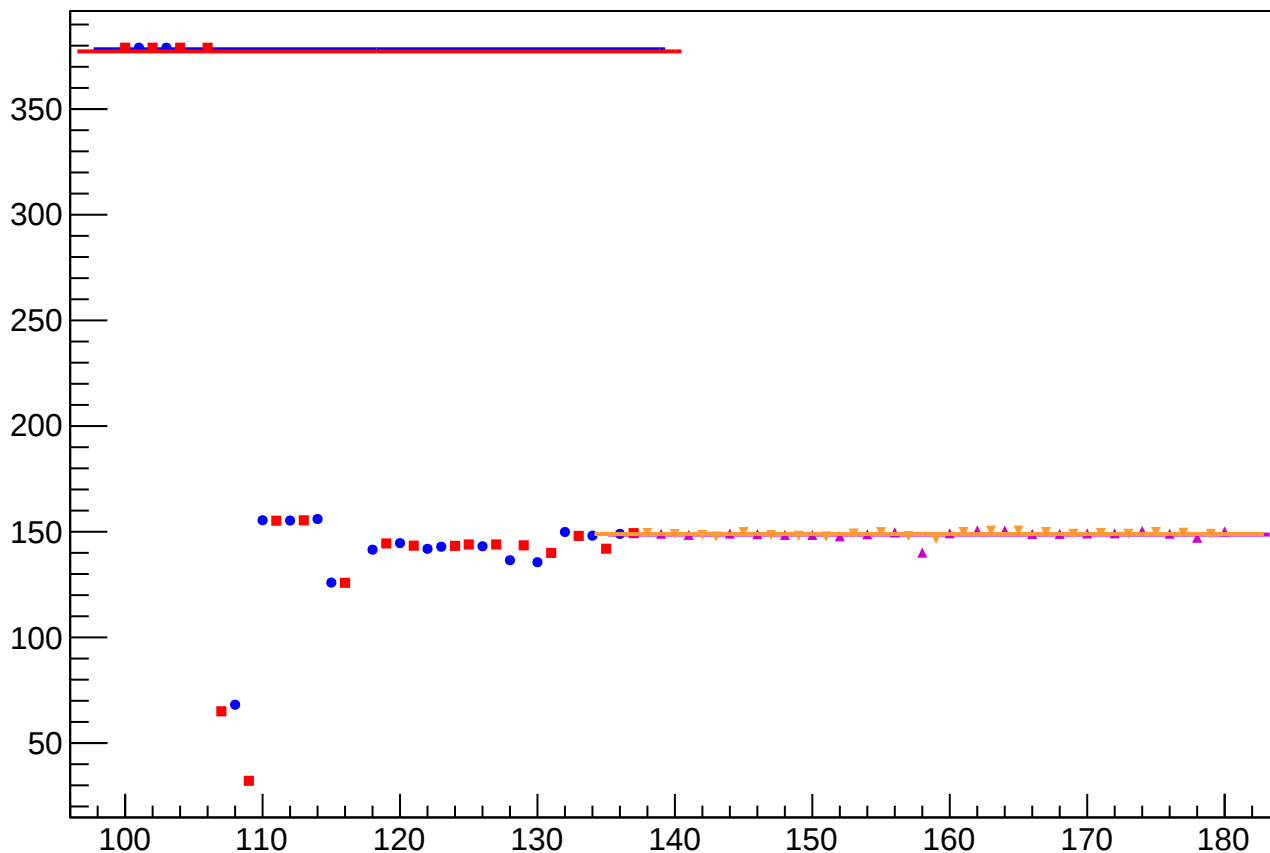
Right: 0.579 $\pm$ 0.000 χ^2/NDF : 8210771.7/35

In: 0.561 $\pm$ 0.000 χ^2/NDF :4561700.5/37

Out: 0.549 $\pm$ 0.000 χ^2/NDF :6035552.8/40

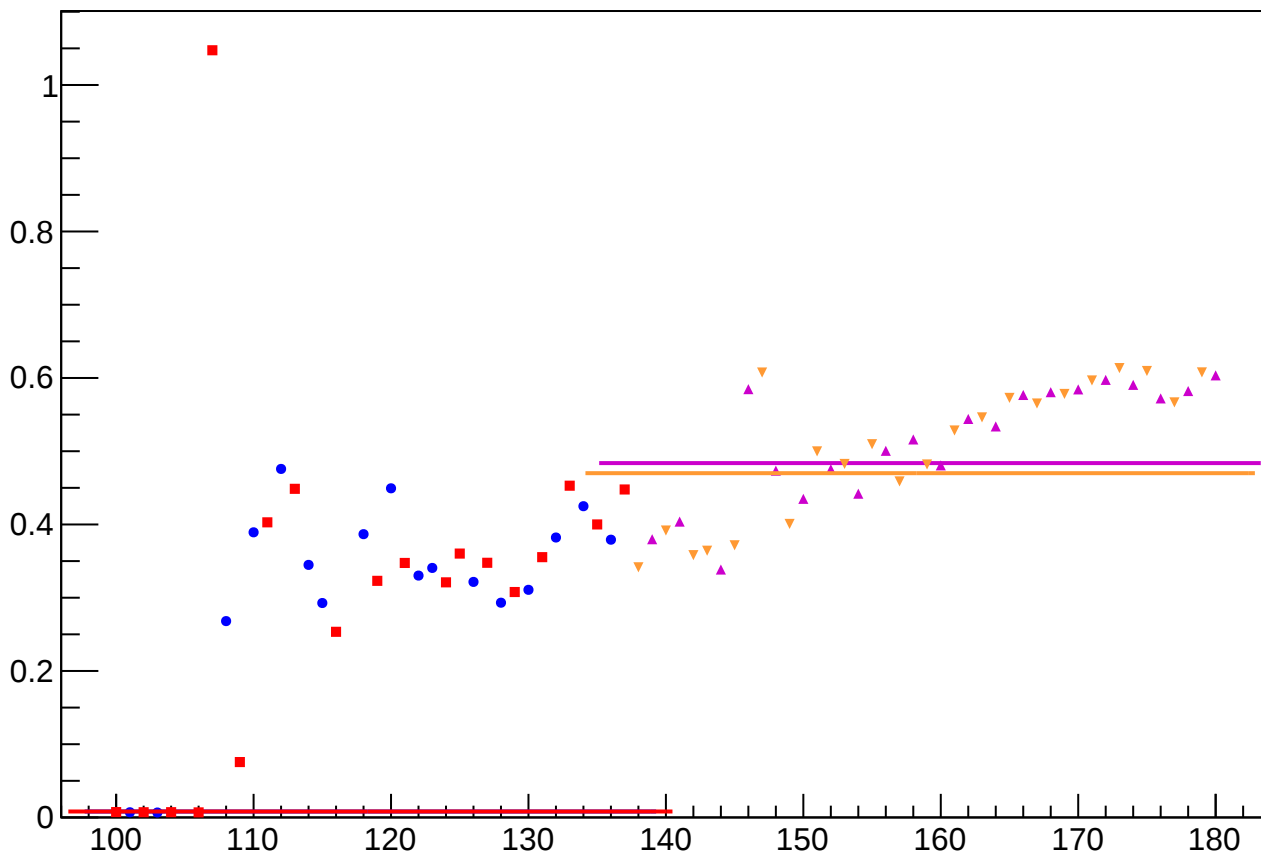
All: 0.555 $\pm$ 0.000 χ^2/NDF : 10604774.4/78

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.799+/-0.000	χ^2/NDF : 318822217.2/42
Left Out: 148.925+/-0.000	χ^2/NDF : 63774889.4/21	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.0
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.151+/-0.000	χ^2/NDF : 5968256536438.2/37
Left In: 148.665+/-0.000	χ^2/NDF : 252755502.9/20	Out: 376.239+/-0.000	χ^2/NDF : 11920146531287.8
		All: 376.665+/-0.000	χ^2/NDF : 178943331358.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.470 $\pm$ 0.000 χ^2 /NDF:1237994.7/21

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.484 $\pm$ 0.000 χ^2 /NDF:956872.5/20

Left: 0.477 $\pm$ 0.000 χ^2 /NDF: 2207736.0/42

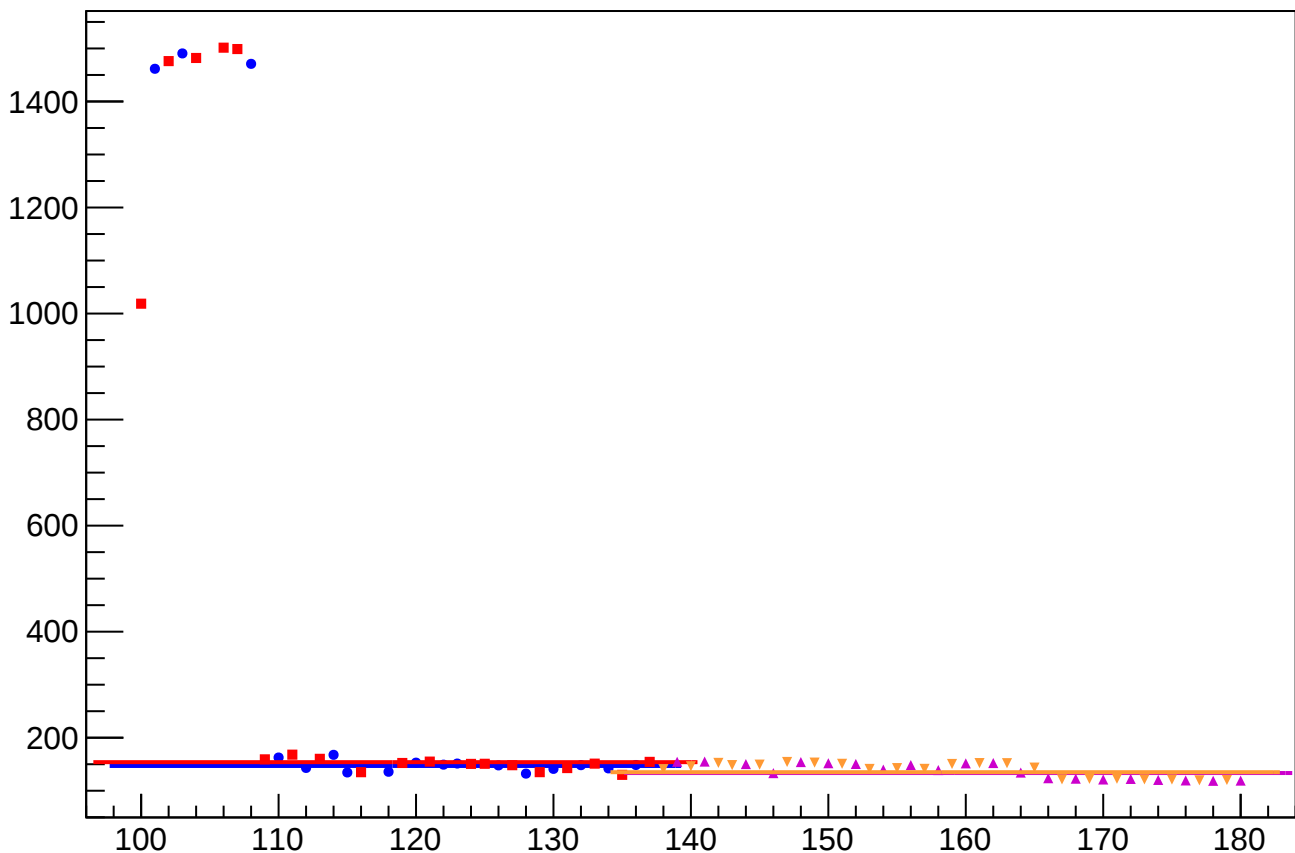
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:40502756.4/37

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:40559620.7/40

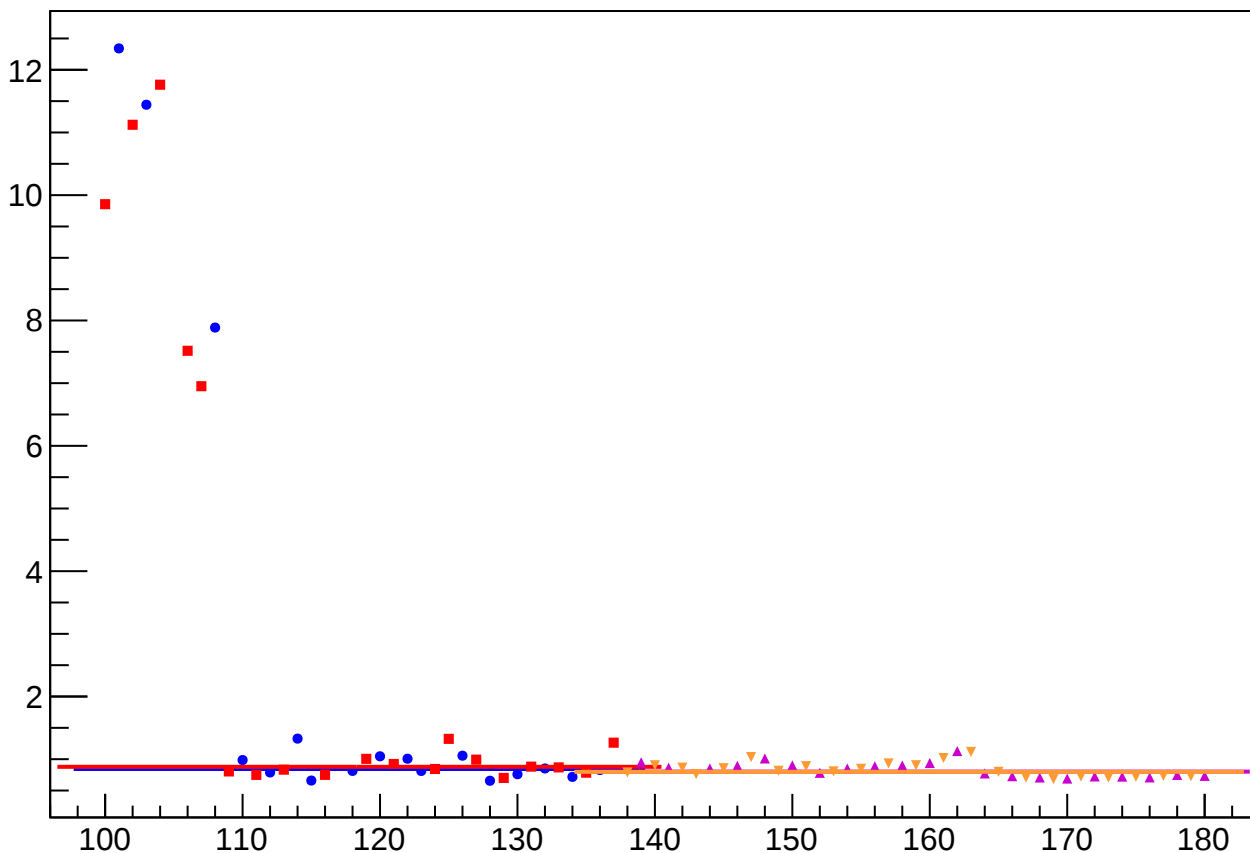
All: 0.010 $\pm$ 0.000 χ^2 /NDF: 81062935.7/78

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000	χ^2/NDF : 24350870553.3/16	Left: 134.182+/-0.000	χ^2/NDF : 8317560630.0/42
Left Out: 134.972+/-0.000	χ^2/NDF : 4007782681.8/21	Right: 150.283+/-0.000	χ^2/NDF : 58225591435.1/35
Right Out: 153.887+/-0.000	χ^2/NDF : 33738118250.9/18	In: 136.029+/-0.000	χ^2/NDF : 29397113645.8/37
Left In: 133.384+/-0.000	χ^2/NDF : 4282335591.5/20	Out: 138.660+/-0.000	χ^2/NDF : 39269899655.9/40
		All: 137.348+/-0.000	χ^2/NDF : 68760709568.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.798+/-0.000 χ^2/NDF : 478120.9/21

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.802+/-0.000 χ^2/NDF : 459545.3/20

Left: 0.800+/-0.000 χ^2/NDF : 937899.9/42

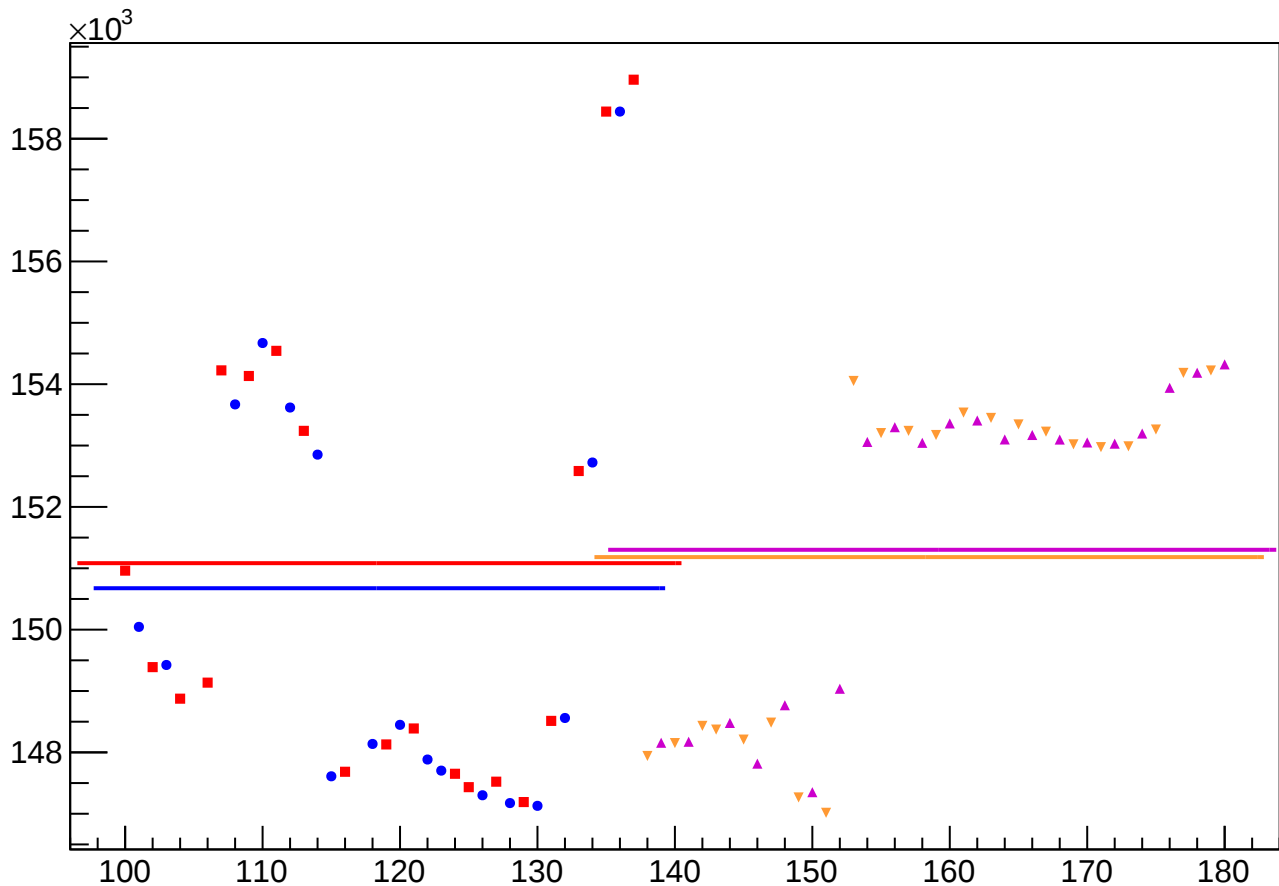
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.810+/-0.000 χ^2/NDF : 3145134.8/37

Out: 0.814+/-0.000 χ^2/NDF : 3345049.1/40

All: 0.812+/-0.000 χ^2/NDF : 6490613.5/78

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2 /NDF: 3309974859.4/16

Left: 151239.587 $\pm$ 0.036

χ^2 /NDF: 5230463924.4/16

Left Out: 151182.152 $\pm$ 0.050

χ^2 /NDF: 2940810926.1/21

Right: 150890.022 $\pm$ 0.043

χ^2 /NDF: 6632946370.1/16

Right Out: 151083.268 $\pm$ 0.060

χ^2 /NDF: 3300830370.5/18

In: 151047.573 $\pm$ 0.040

χ^2 /NDF: 5655765375.5/31

Out: 151141.292 $\pm$ 0.038

χ^2 /NDF: 6243251566.7/4

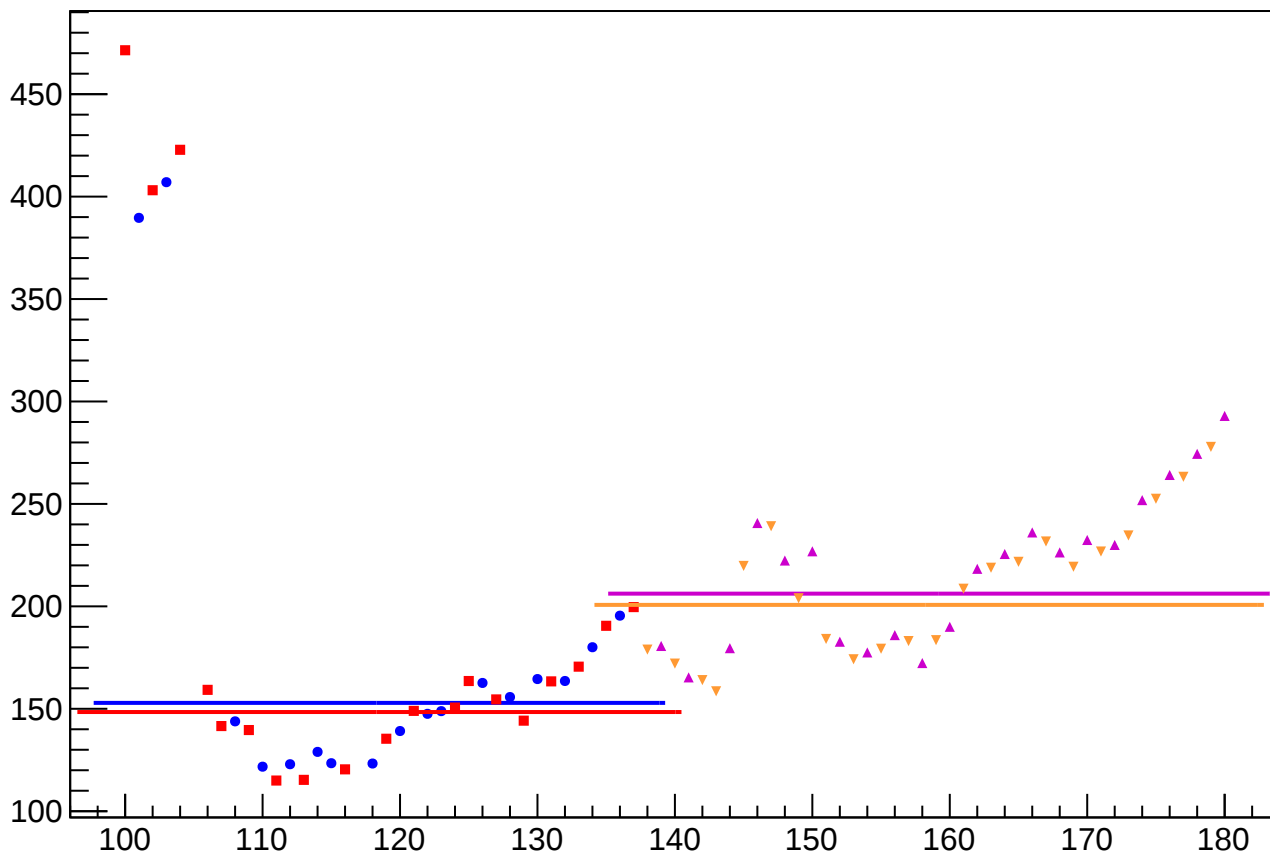
Left In: 151301.416 $\pm$ 0.052

χ^2 /NDF: 2286922942.1/20

All: 151096.474 $\pm$ 0.028

χ^2 /NDF: 119018698.1/16

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2/NDF : 1154088.7/16

Left Out: 200.717 $\pm$ 0.035 χ^2/NDF : 742510.3/21

Right Out: 148.418 $\pm$ 0.042 χ^2/NDF : 1191577.6/18

Left In: 206.203 $\pm$ 0.037 χ^2/NDF : 833239.5/20

Left: 203.359 $\pm$ 0.026 χ^2/NDF : 1587305.4/42

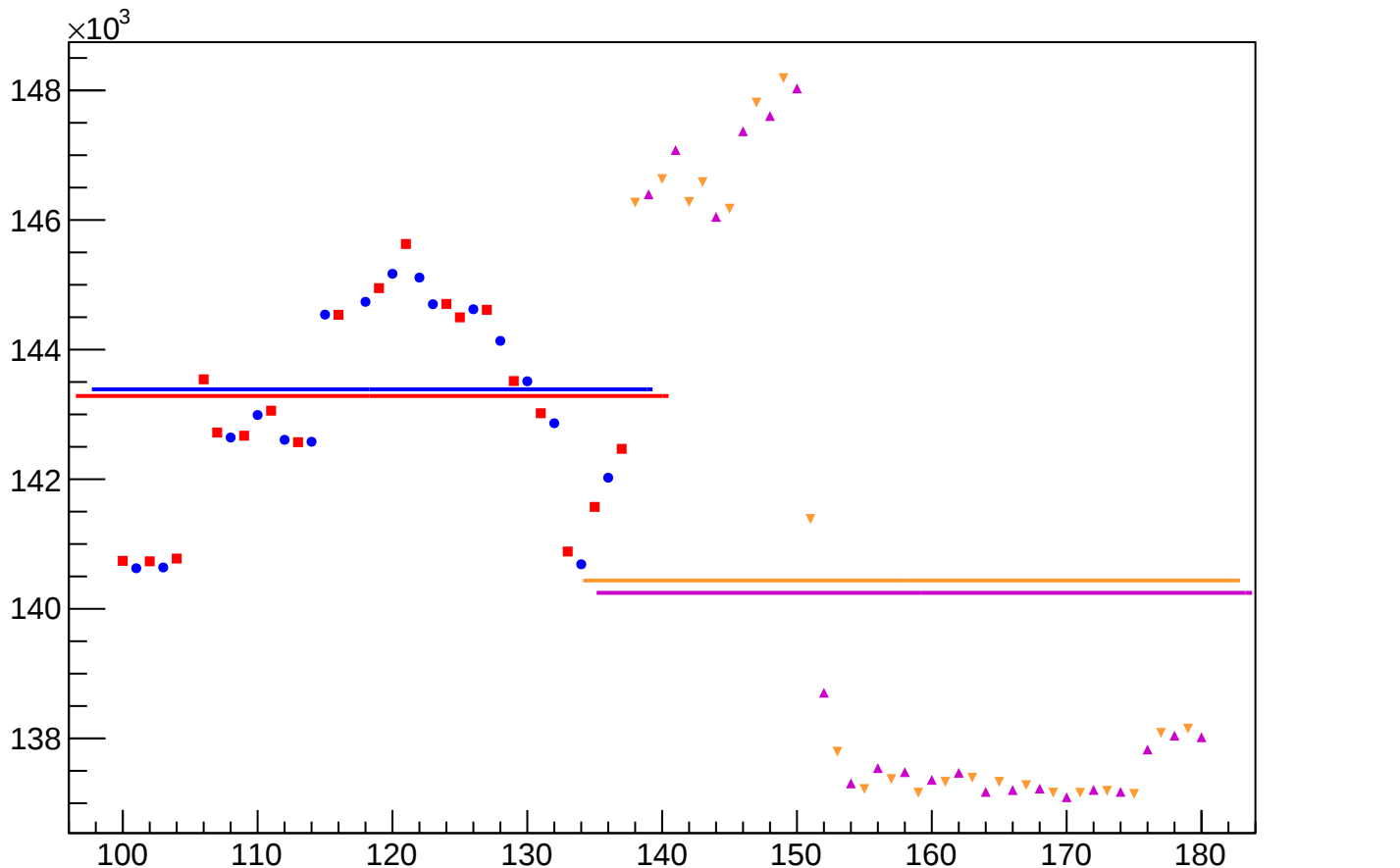
Right: 150.532 $\pm$ 0.031 χ^2/NDF : 2350963.4/35

In: 184.595 $\pm$ 0.028 χ^2/NDF : 2840423.9/37

Out: 179.106 $\pm$ 0.027 χ^2/NDF : 2834957.1/40

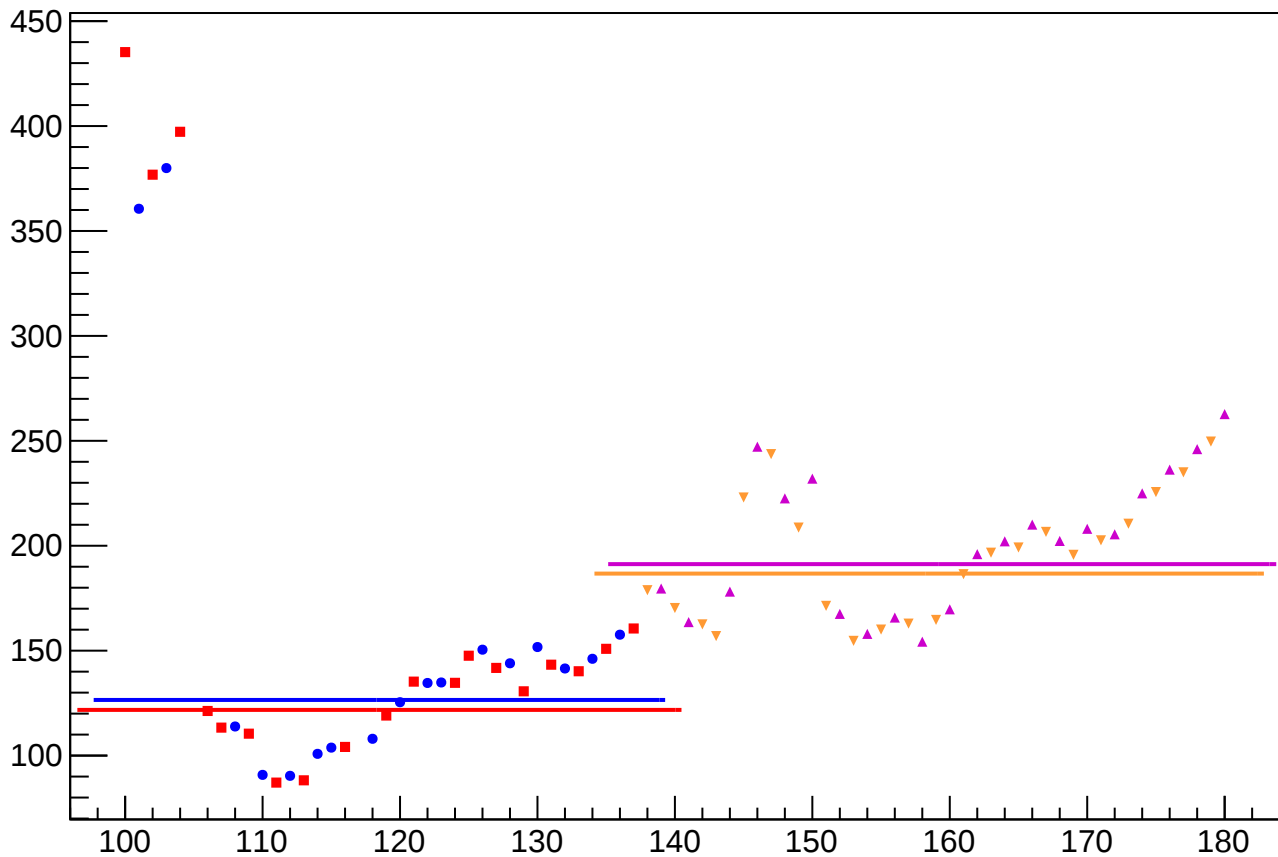
All: 181.731 $\pm$ 0.020 χ^2/NDF : 5694953.5/78

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140345.135 $\pm$ 0.034	χ^2 /NDF: 16384596262.9
Left Out: 140437.076 $\pm$ 0.047	χ^2 /NDF: 8434540101.4/21	Right: 143332.291 $\pm$ 0.036	χ^2 /NDF: 1131952524.8
Right Out: 143284.757 $\pm$ 0.049	χ^2 /NDF: 608634820.1/18	In: 141676.937 $\pm$ 0.036	χ^2 /NDF: 10395327670.1/3
Left In: 140246.636 $\pm$ 0.048	χ^2 /NDF: 7941987811.1/20	Out: 141786.080 $\pm$ 0.034	χ^2 /NDF: 10813381428.7
		All: 141734.318 $\pm$ 0.025	χ^2 /NDF: 21213655

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 186.726 $\pm$ 0.033 χ^2 /NDF: 679178.7/21

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 191.239 $\pm$ 0.034 χ^2 /NDF: 817221.1/20

Left: 188.905 $\pm$ 0.024 χ^2 /NDF: 1505461.0/42

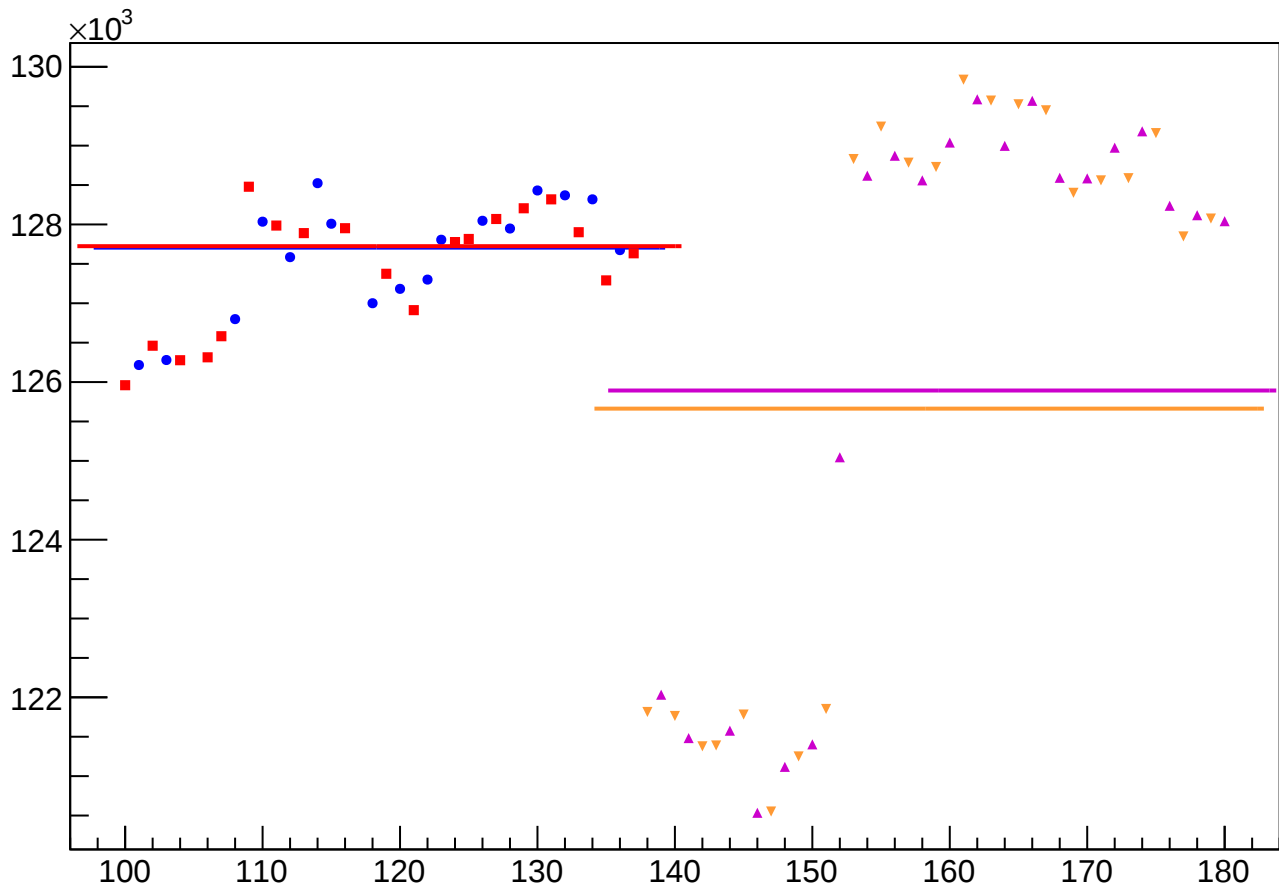
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 161.760 $\pm$ 0.025 χ^2 /NDF: 3900267.4/37

Out: 155.956 $\pm$ 0.024 χ^2 /NDF: 3984989.4/40

All: 158.709 $\pm$ 0.017 χ^2 /NDF: 7913237.2/78

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125663.058 $\pm$ 0.046

χ^2 /NDF: 6455392570.4/21

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Left In: 125892.913 $\pm$ 0.046

χ^2 /NDF: 5749633846.4/20

Left: 125778.221 $\pm$ 0.032

χ^2 /NDF: 12217695645.1/16

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126585.013 $\pm$ 0.036

χ^2 /NDF: 6450605658.4/37

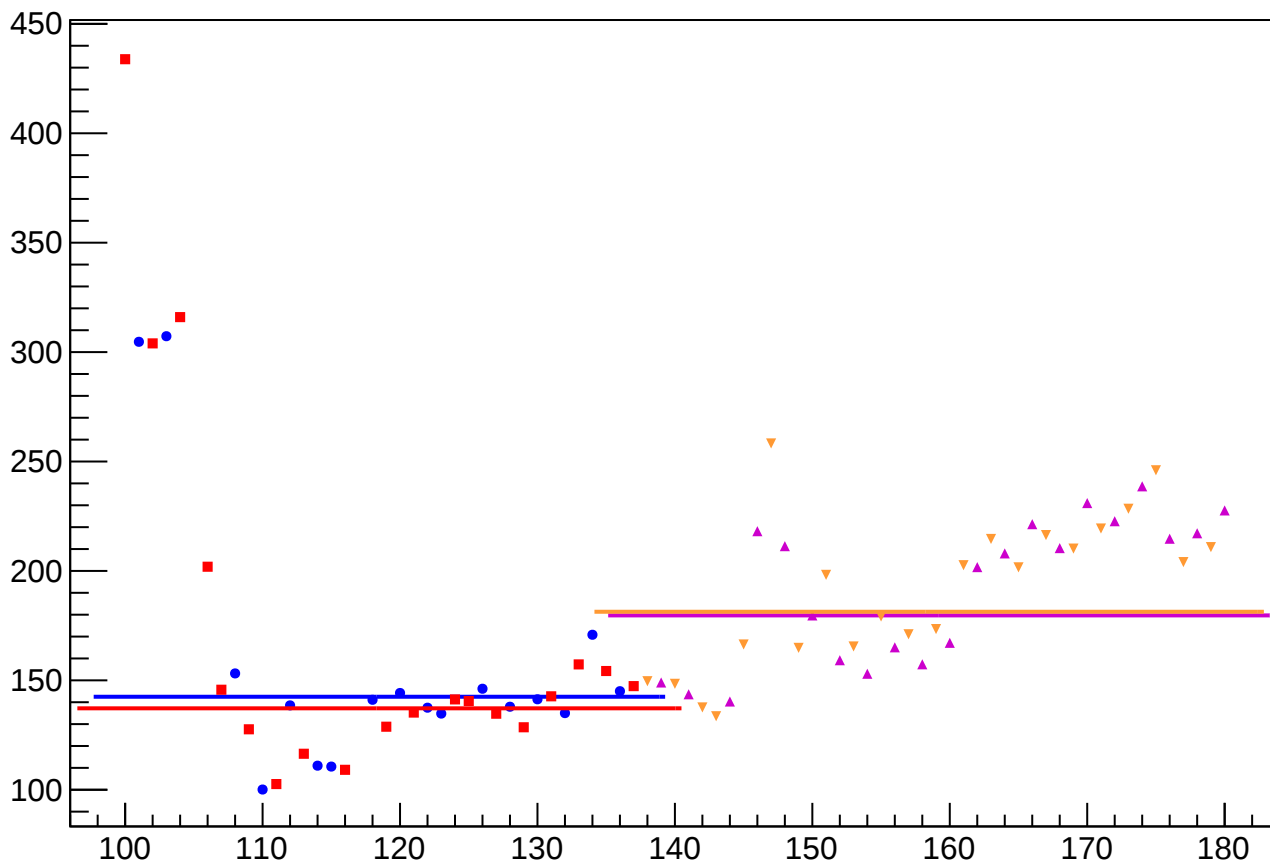
Out: 126513.736 $\pm$ 0.035

χ^2 /NDF: 7407213769.2/4

All: 126548.531 $\pm$ 0.025

χ^2 /NDF: 138598405

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2/NDF : 836263.7/16

Left Out: 181.345 $\pm$ 0.032 χ^2/NDF : 992393.0/21

Right Out: 137.211 $\pm$ 0.039 χ^2/NDF : 957317.1/18

Left In: 179.676 $\pm$ 0.032 χ^2/NDF : 1002834.2/20

Left: 180.509 $\pm$ 0.023 χ^2/NDF : 1996564.7/42

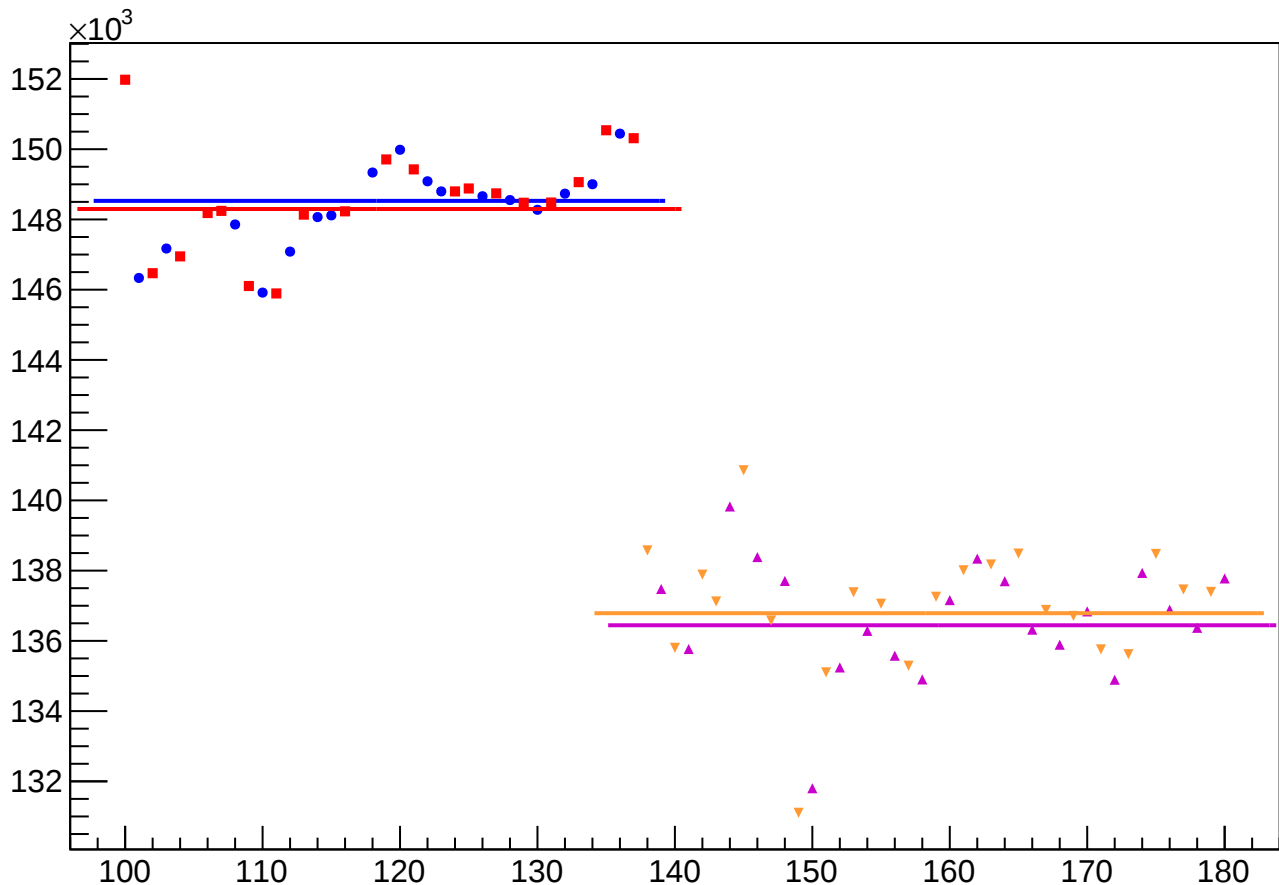
Right: 139.691 $\pm$ 0.028 χ^2/NDF : 1802403.2/35

In: 165.487 $\pm$ 0.025 χ^2/NDF : 2346059.3/37

Out: 163.131 $\pm$ 0.025 χ^2/NDF : 2719205.4/40

All: 164.281 $\pm$ 0.018 χ^2/NDF : 5069680.7/78

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136787.521 $\pm$ 0.068 χ^2 /NDF: 871536386.7/21

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136444.110 $\pm$ 0.067 χ^2 /NDF: 685902163.9/20

Left: 136615.445 $\pm$ 0.048 χ^2 /NDF: 1570375802.7/4

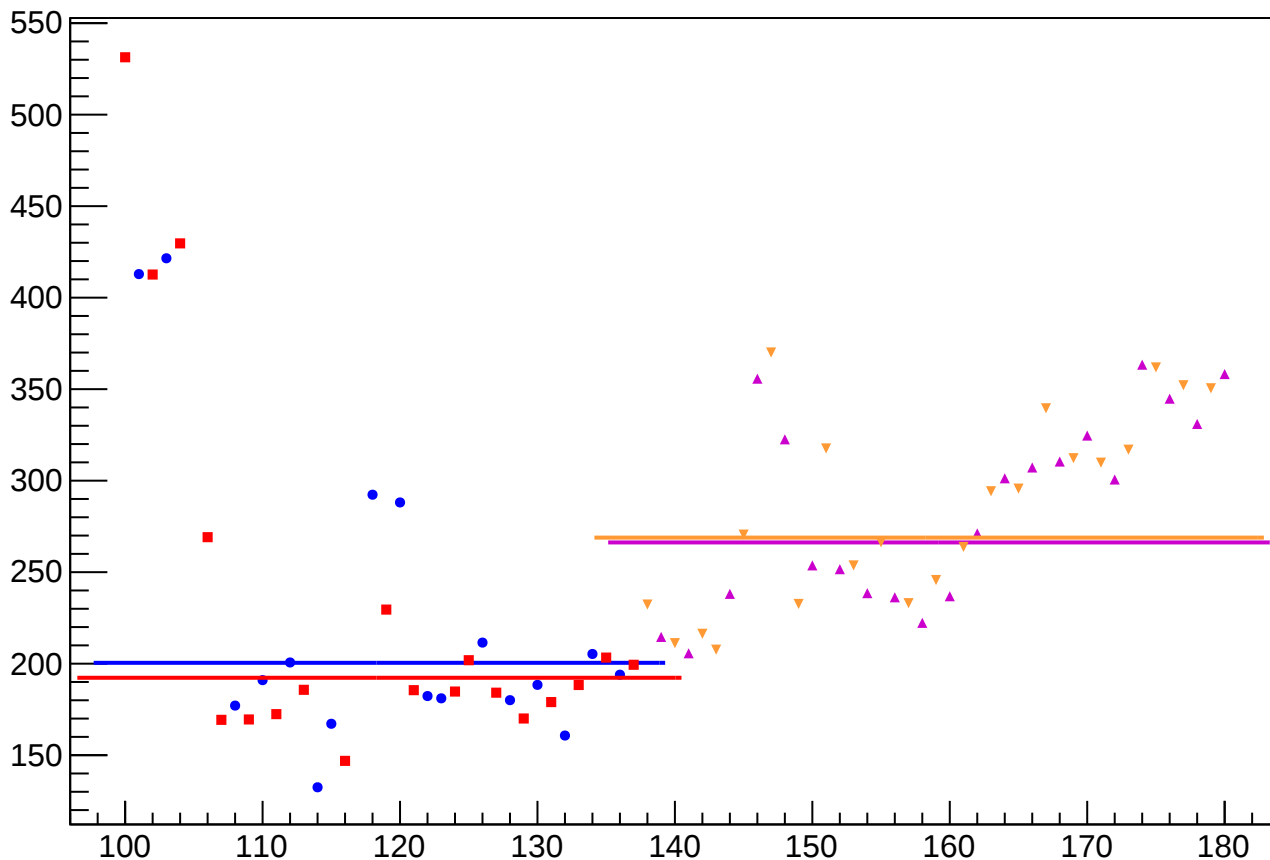
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141315.017 $\pm$ 0.052 χ^2 /NDF: 13838645952.3/3

Out: 141839.458 $\pm$ 0.051 χ^2 /NDF: 13894680996.7/3

All: 141584.795 $\pm$ 0.036 χ^2 /NDF: 277854409

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 268.891 $\pm$ 0.048 χ^2 /NDF: 1019811.8/21

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 266.250 $\pm$ 0.048 χ^2 /NDF: 1032014.2/20

Left: 267.568 $\pm$ 0.034 χ^2 /NDF: 2053356.9/42

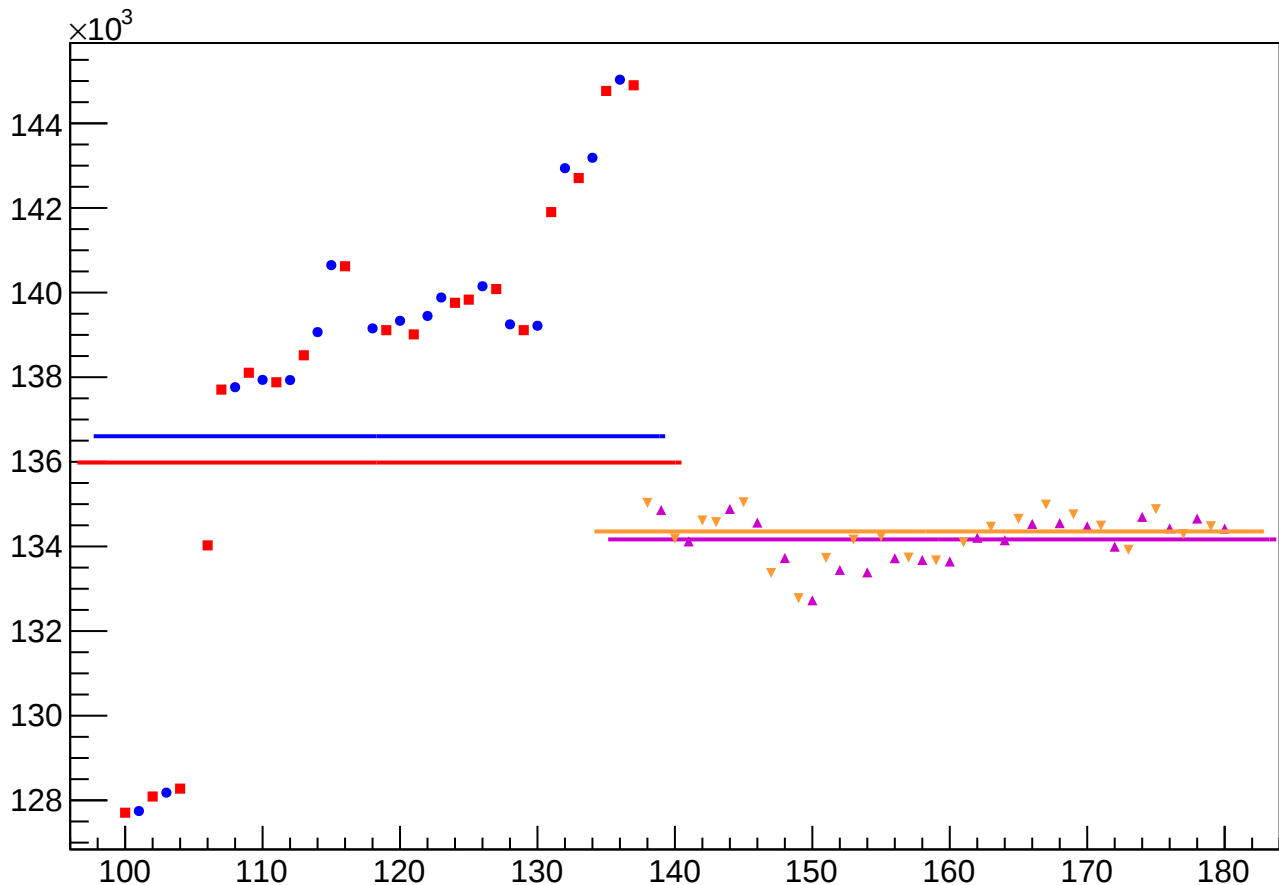
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 239.737 $\pm$ 0.037 χ^2 /NDF: 2735456.1/37

Out: 235.275 $\pm$ 0.036 χ^2 /NDF: 2991629.2/40

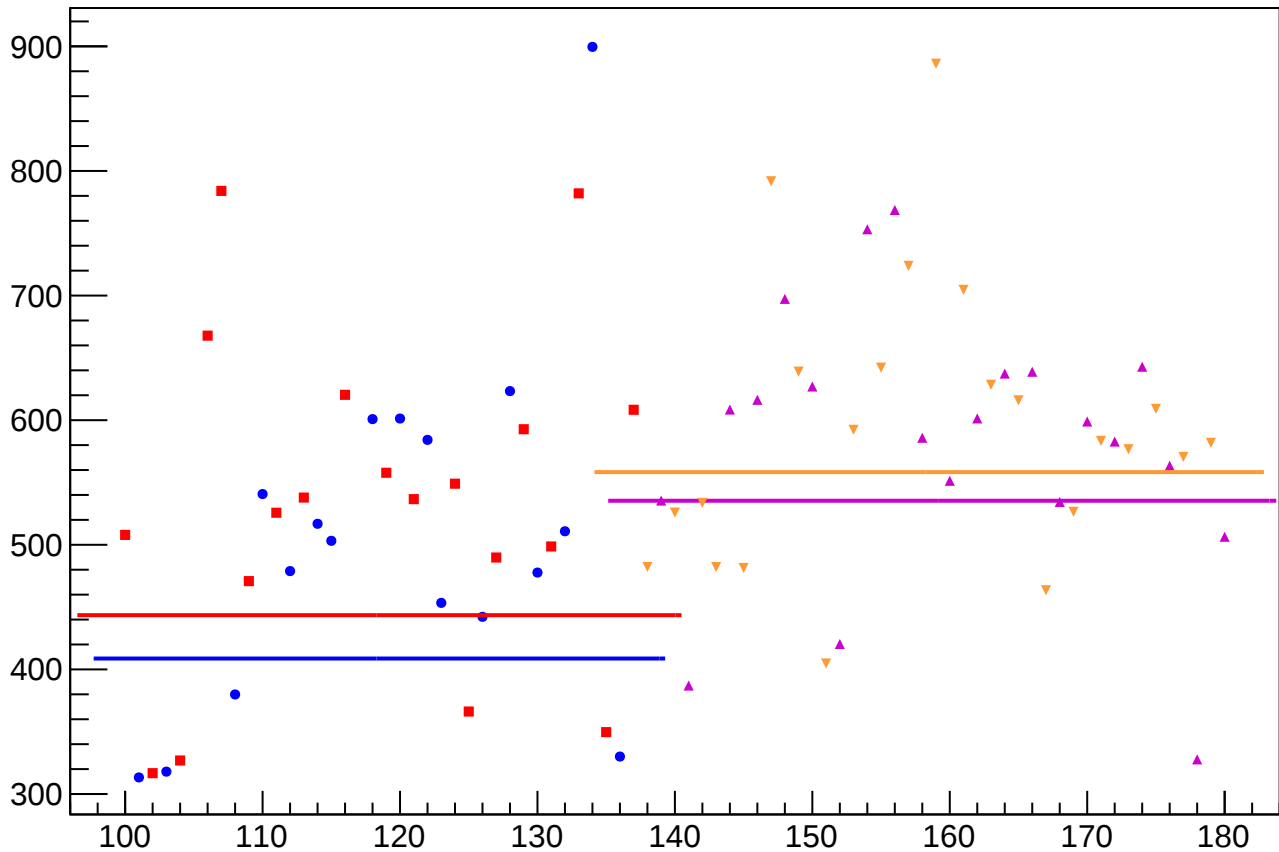
All: 237.442 $\pm$ 0.026 χ^2 /NDF: 5734631.8/78

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134259.464 $\pm$ 0.103	χ^2 /NDF: 28867488.6/42
Left Out: 134354.407 $\pm$ 0.146	χ^2 /NDF: 14347220.2/21	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/4
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135183.487 $\pm$ 0.111	χ^2 /NDF: 1625951841.2/37
Left In: 134166.018 $\pm$ 0.145	χ^2 /NDF: 13683673.6/20	Out: 134990.273 $\pm$ 0.114	χ^2 /NDF: 1145210342.8/4
		All: 135089.815 $\pm$ 0.079	χ^2 /NDF: 277263806.6/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 558.335 $\pm$ 0.103 χ^2 /NDF: 904833.6/21

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 535.349 $\pm$ 0.103 χ^2 /NDF: 1315369.5/20

Left: 546.751 $\pm$ 0.073 χ^2 /NDF: 2245113.1/42

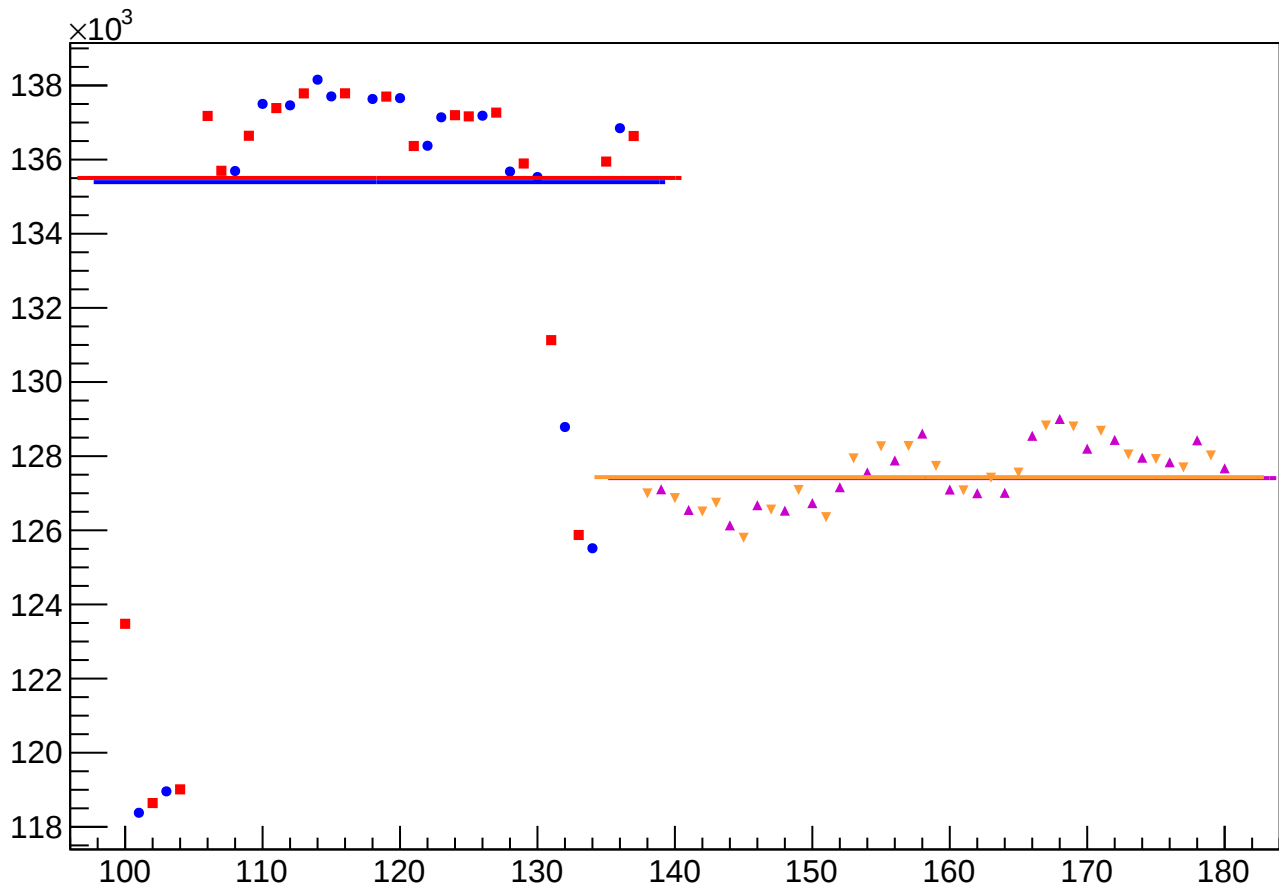
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 482.519 $\pm$ 0.078 χ^2 /NDF: 2774413.2/37

Out: 513.503 $\pm$ 0.081 χ^2 /NDF: 2303841.2/40

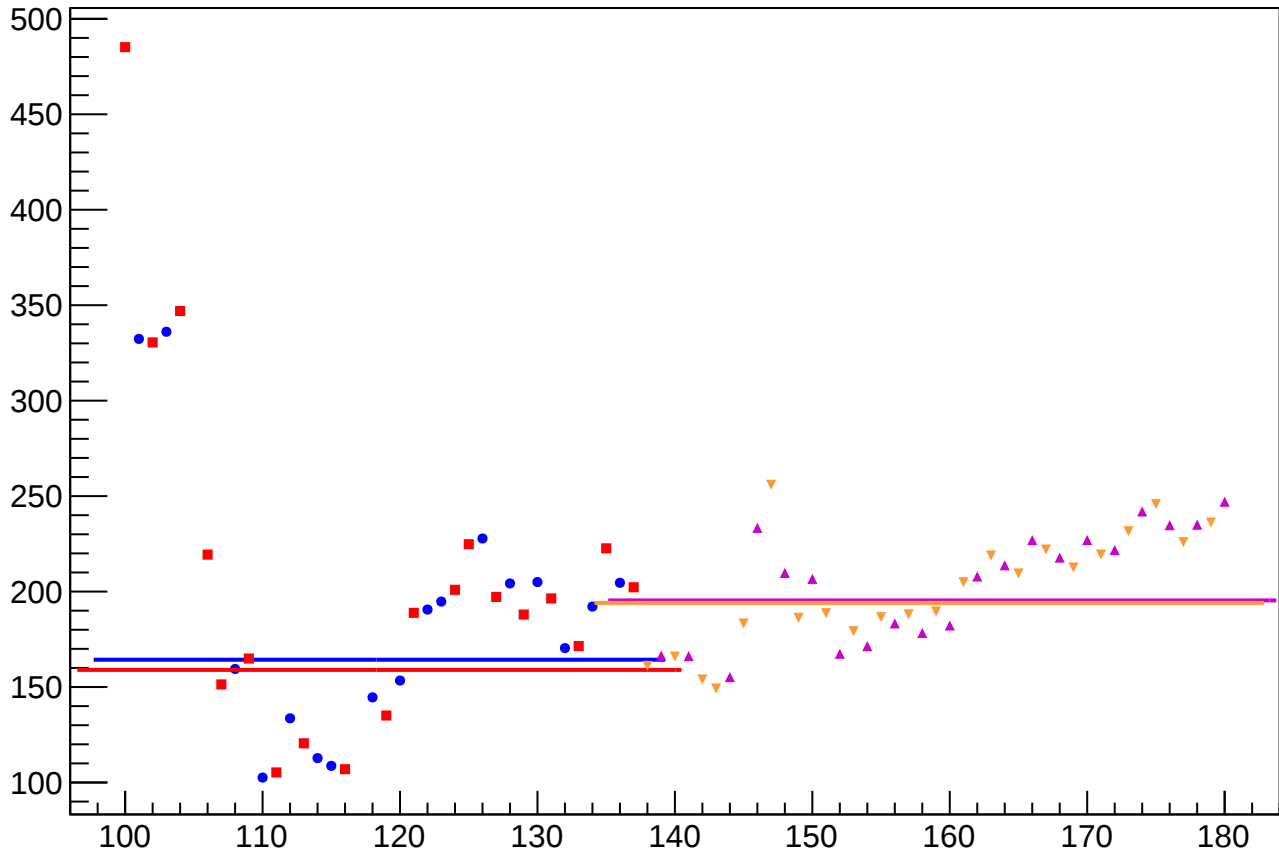
All: 497.540 $\pm$ 0.056 χ^2 /NDF: 5154160.5/78

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127420.797 $\pm$ 0.035	χ^2 /NDF: 554084779.8/42
Left Out: 127433.726 $\pm$ 0.049	χ^2 /NDF: 284776534.4/21	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130138.971 $\pm$ 0.040	χ^2 /NDF: 13848374971.8/3
Left In: 127407.483 $\pm$ 0.049	χ^2 /NDF: 269164067.7/20	Out: 130356.196 $\pm$ 0.039	χ^2 /NDF: 15037898601.7
		All: 130250.845 $\pm$ 0.028	χ^2 /NDF: 289015168

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 194.073+/-0.034 χ^2/NDF : 672756.4/21

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 195.366+/-0.035 χ^2/NDF : 686448.7/20

Left: 194.710+/-0.024 χ^2/NDF : 1359905.0/42

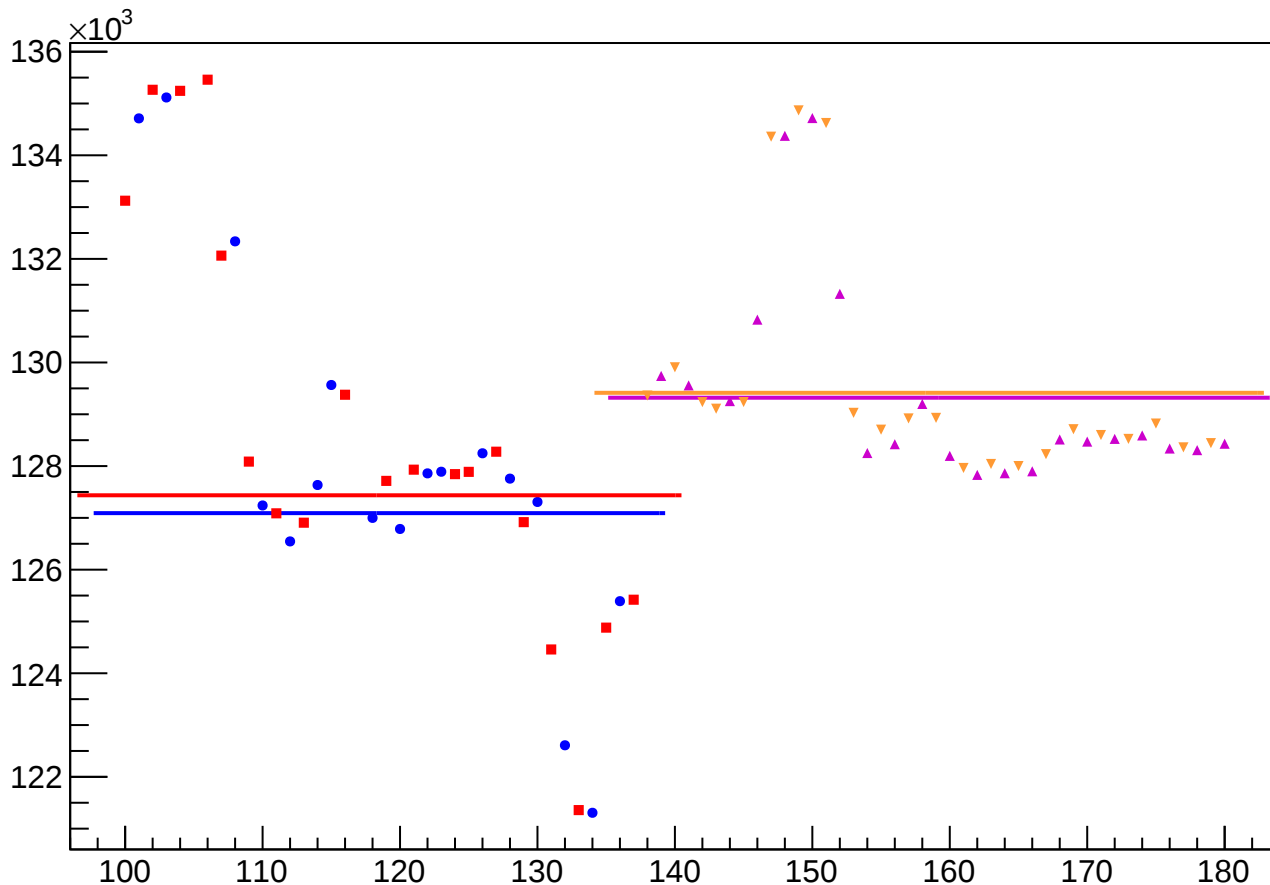
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 184.742+/-0.028 χ^2/NDF : 2189239.6/37

Out: 181.365+/-0.027 χ^2/NDF : 2435821.4/40

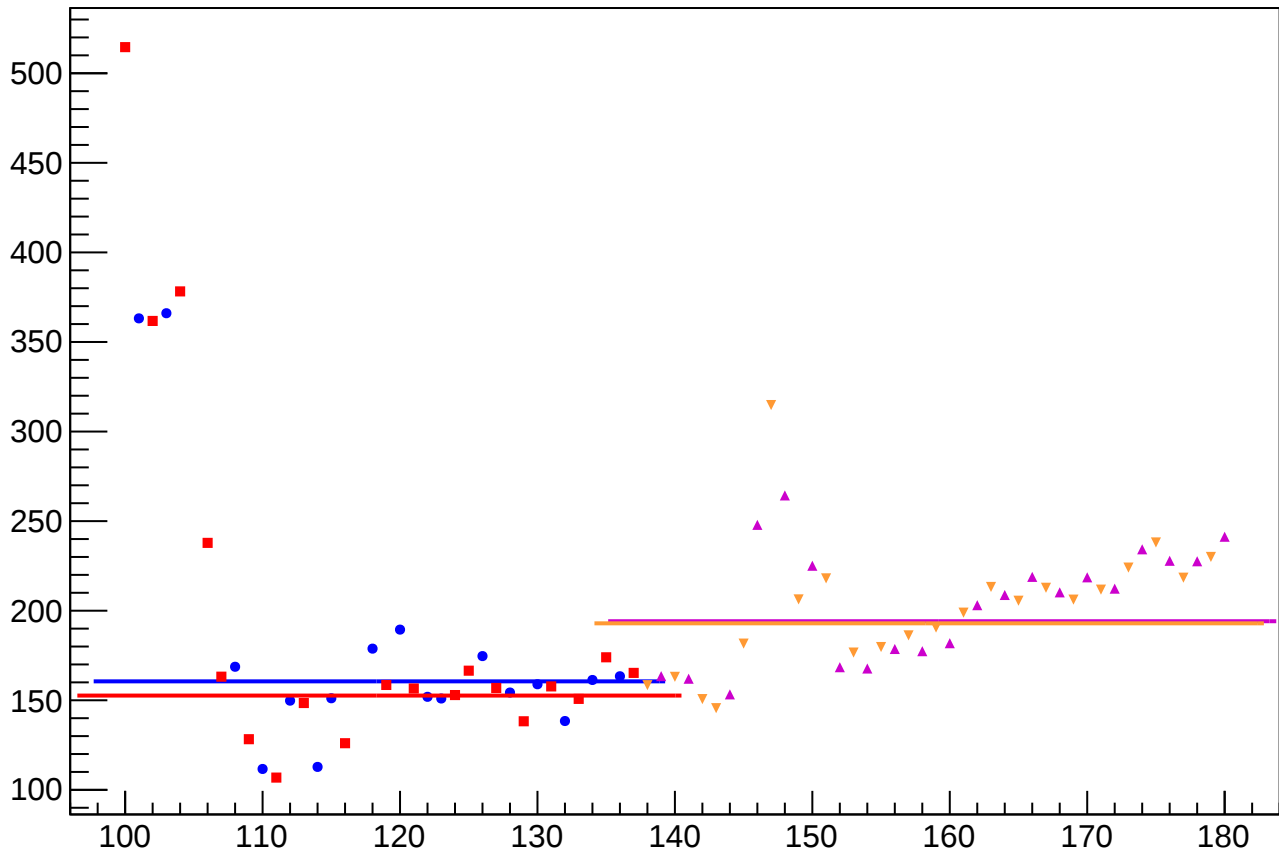
All: 183.003+/-0.020 χ^2/NDF : 4632425.5/78

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066 χ^2 /NDF: 1717208780.6/16
 Left Out: 129414.532 $\pm$ 0.048 χ^2 /NDF: 1409372533.2/21
 Right Out: 127436.101 $\pm$ 0.062 χ^2 /NDF: 2079075713.9/18
 Left In: 129319.778 $\pm$ 0.049 χ^2 /NDF: 1180132003.3/20
 Left: 129367.747 $\pm$ 0.034 χ^2 /NDF: 2591395545.2/4
 Right: 127276.609 $\pm$ 0.045 χ^2 /NDF: 3810794624.3/4
 In: 128532.115 $\pm$ 0.039 χ^2 /NDF: 3627544662.6/37
 Out: 128658.170 $\pm$ 0.038 χ^2 /NDF: 4126761962.2/4
 All: 128597.365 $\pm$ 0.027 χ^2 /NDF: 775959963.3/100

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 192.947 $\pm$ 0.034 χ^2 /NDF: 809498.4/21

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 194.127 $\pm$ 0.035 χ^2 /NDF: 797988.7/20

Left: 193.529 $\pm$ 0.024 χ^2 /NDF: 1608073.7/42

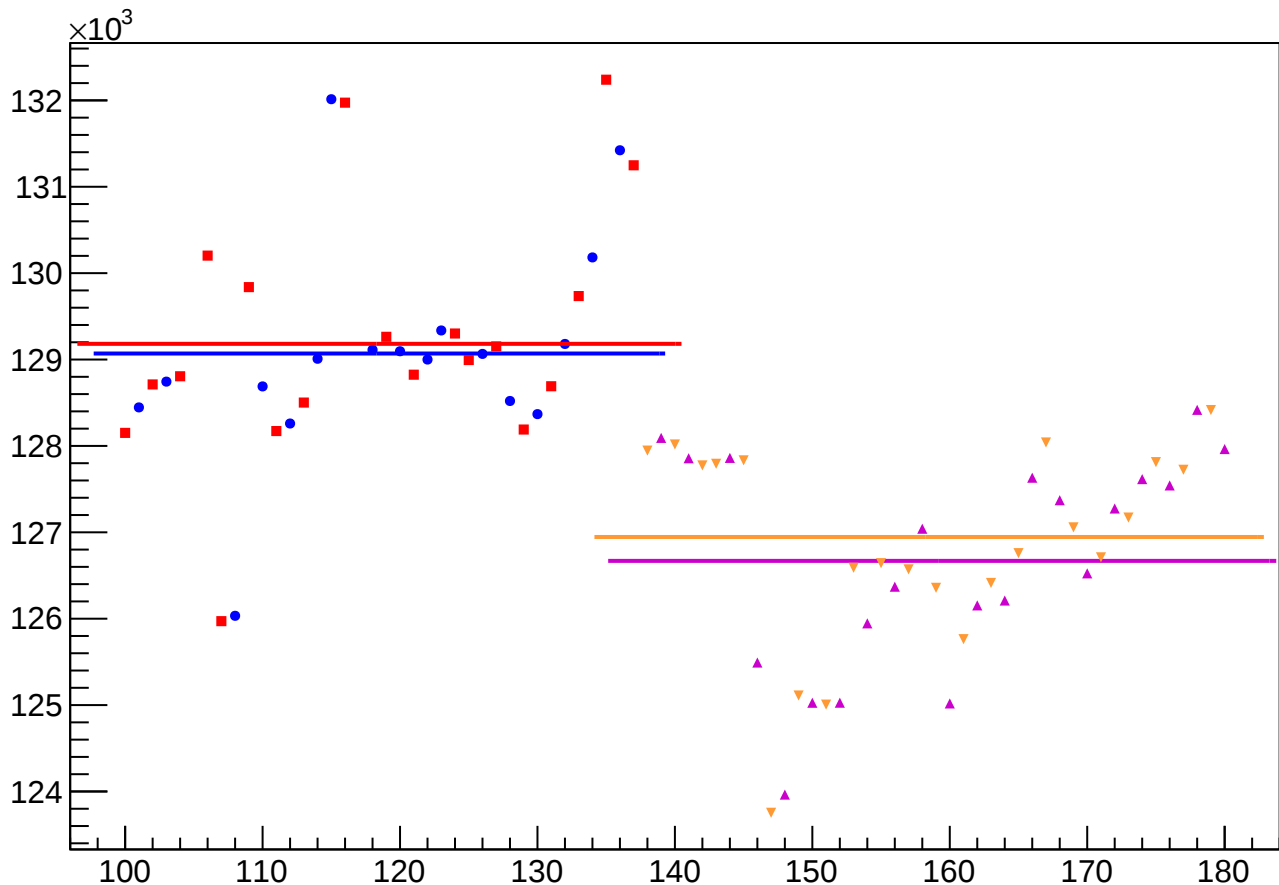
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 182.263 $\pm$ 0.028 χ^2 /NDF: 2072057.2/37

Out: 177.533 $\pm$ 0.027 χ^2 /NDF: 2426179.8/40

All: 179.815 $\pm$ 0.019 χ^2 /NDF: 4513141.2/78

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 ± 0.060 $\chi^2/\text{NDF}: 476692316.5/16$

Left Out: 126945.910 ± 0.047 $\chi^2/\text{NDF}: 521010431.2/21$

Right Out: 129181.887 ± 0.056 $\chi^2/\text{NDF}: 625597399.6/18$

Left In: 126669.377 ± 0.048 $\chi^2/\text{NDF}: 658109291.9/20$

Left: 126809.701 ± 0.034 $\chi^2/\text{NDF}: 1196094405.0/4$

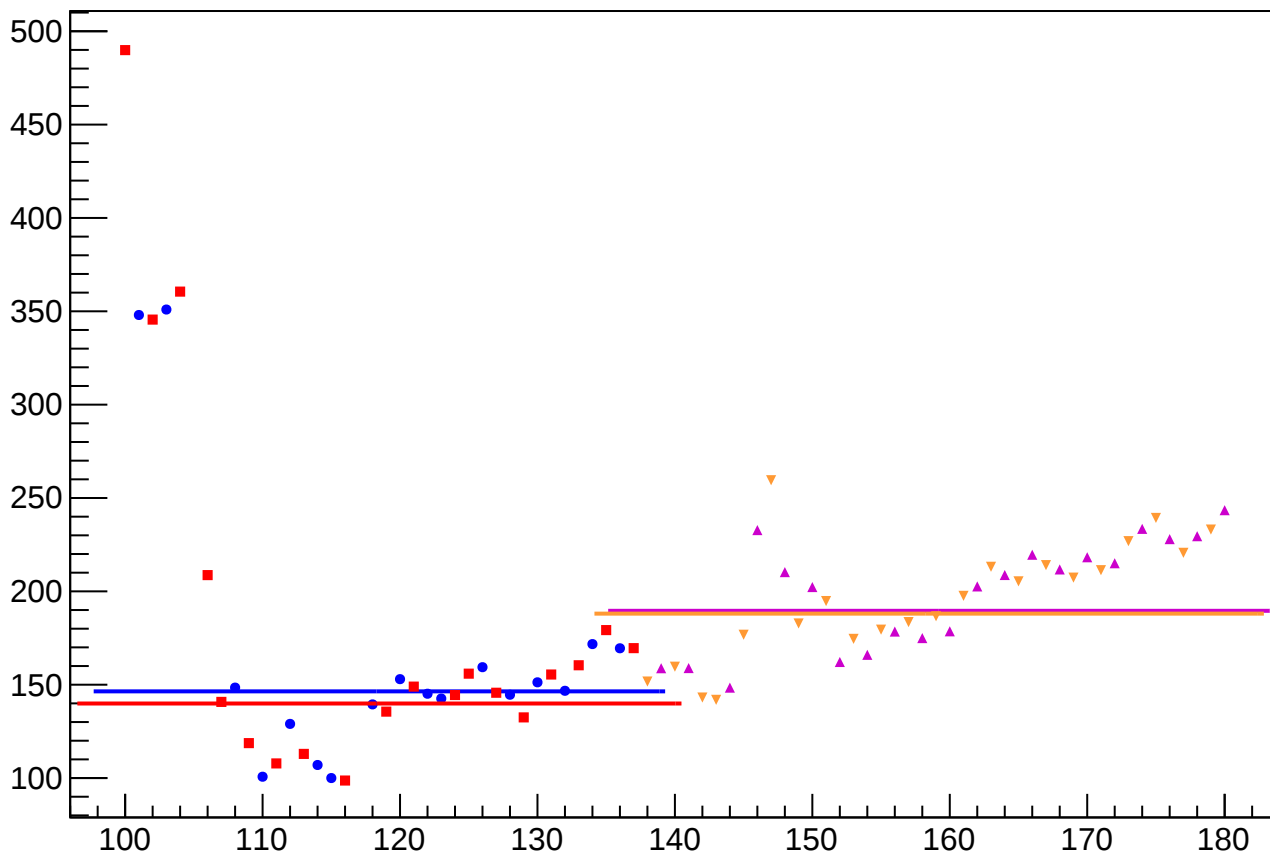
Right: 129129.710 ± 0.041 $\chi^2/\text{NDF}: 1104150743.5/4$

In: 127598.374 ± 0.037 $\chi^2/\text{NDF}: 2110245695.0/37$

Out: 127870.676 ± 0.036 $\chi^2/\text{NDF}: 2078459427.9/4$

All: 127739.563 ± 0.026 $\chi^2/\text{NDF}: 421614227.9/100$

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 188.065 $\pm$ 0.033 χ^2 /NDF: 790276.5/21

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 189.575 $\pm$ 0.034 χ^2 /NDF: 750043.4/20

Left: 188.809 $\pm$ 0.024 χ^2 /NDF: 1541333.0/42

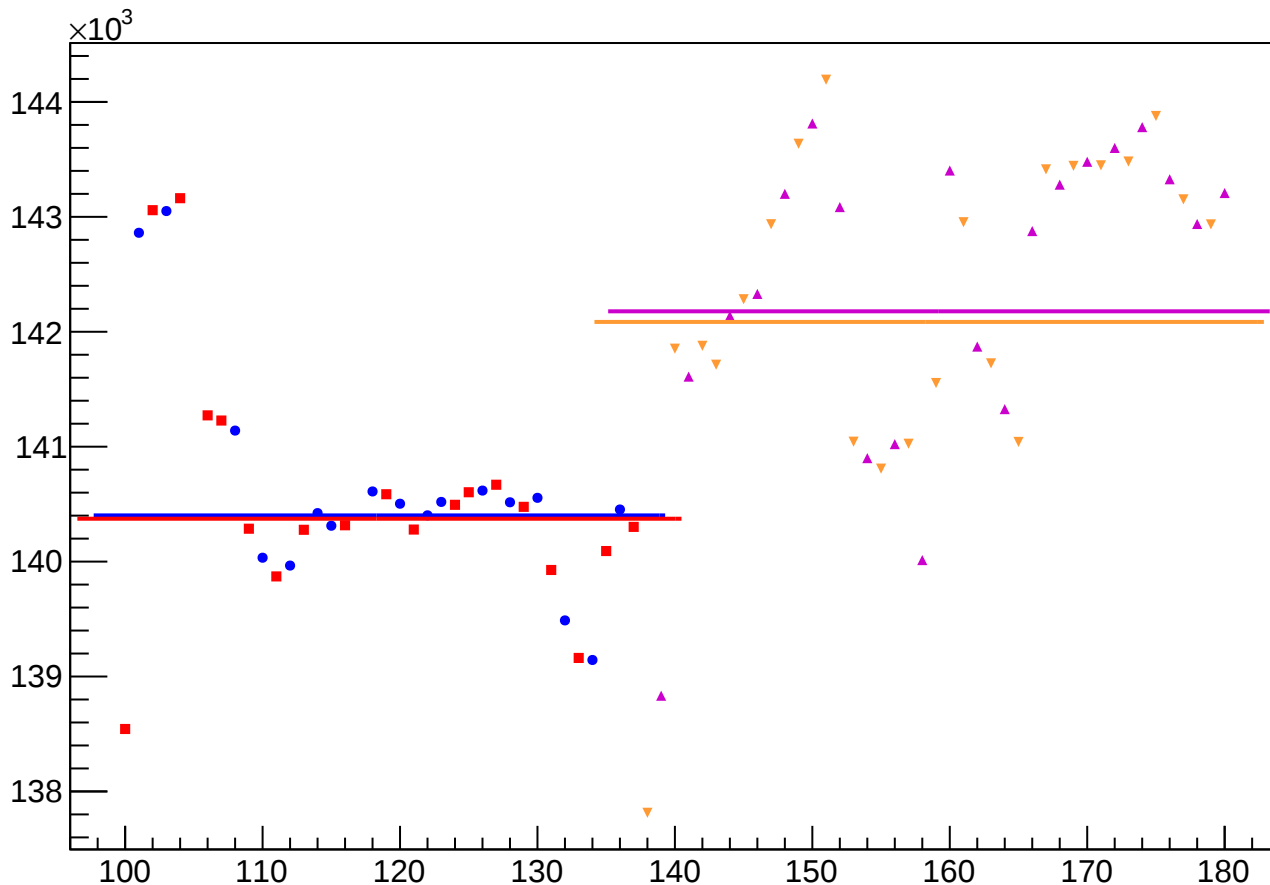
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 172.879 $\pm$ 0.026 χ^2 /NDF: 2444956.4/37

Out: 168.157 $\pm$ 0.026 χ^2 /NDF: 2857576.4/40

All: 170.431 $\pm$ 0.018 χ^2 /NDF: 5319040.3/78

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142131.321 $\pm$ 0.039

χ^2 /NDF: 1440130076.6/4

Left Out: 142085.687 $\pm$ 0.054

χ^2 /NDF: 797611750.8/21

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: 141431.237 $\pm$ 0.042

χ^2 /NDF: 1170610284.6/37

Out: 141314.235 $\pm$ 0.040

χ^2 /NDF: 1347368756.3/4

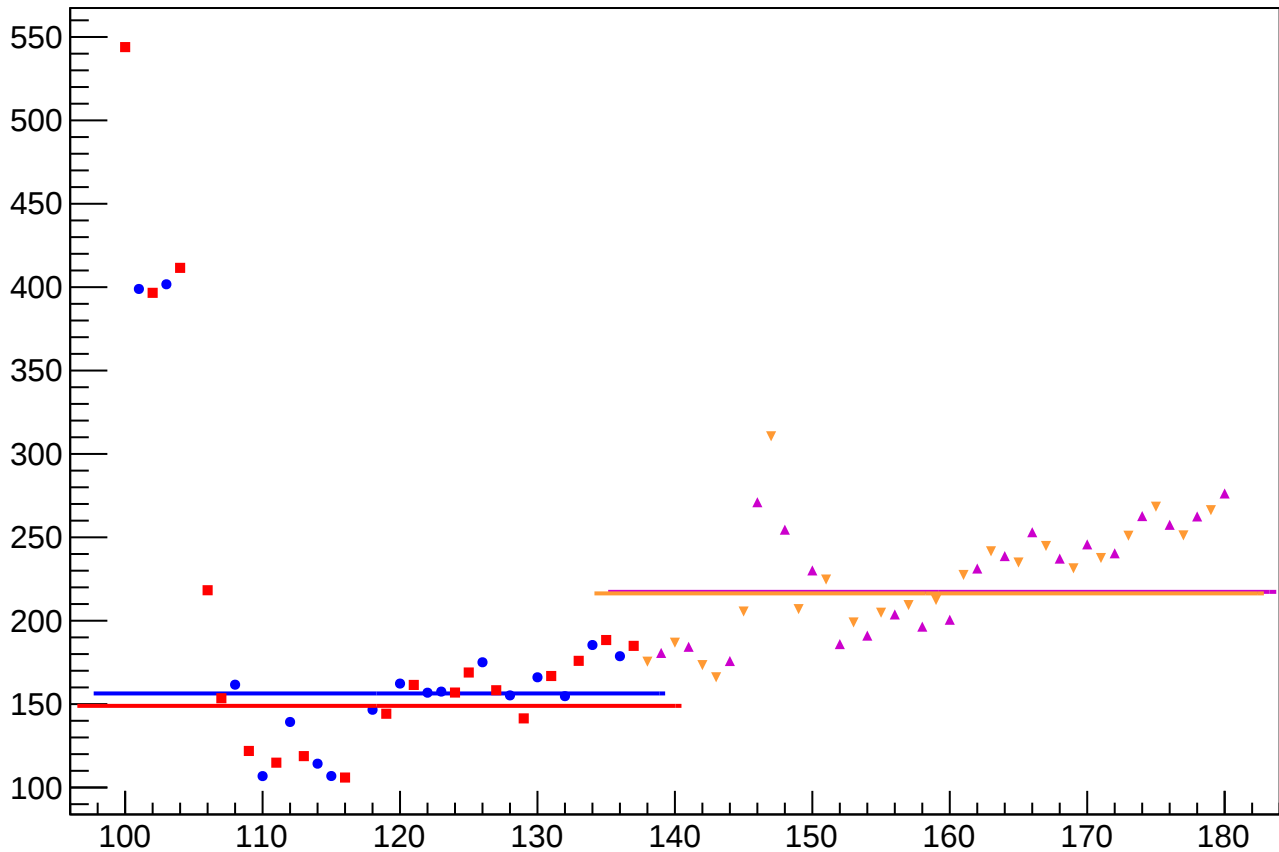
Left In: 142178.008 $\pm$ 0.055

χ^2 /NDF: 641083633.9/20

All: 141370.514 $\pm$ 0.029

χ^2 /NDF: 252205965.3/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 216.377 $\pm$ 0.038 χ^2 /NDF: 695897.5/21

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 217.306 $\pm$ 0.039 χ^2 /NDF: 702771.1/20

Left: 216.836 $\pm$ 0.027 χ^2 /NDF: 1398959.2/42

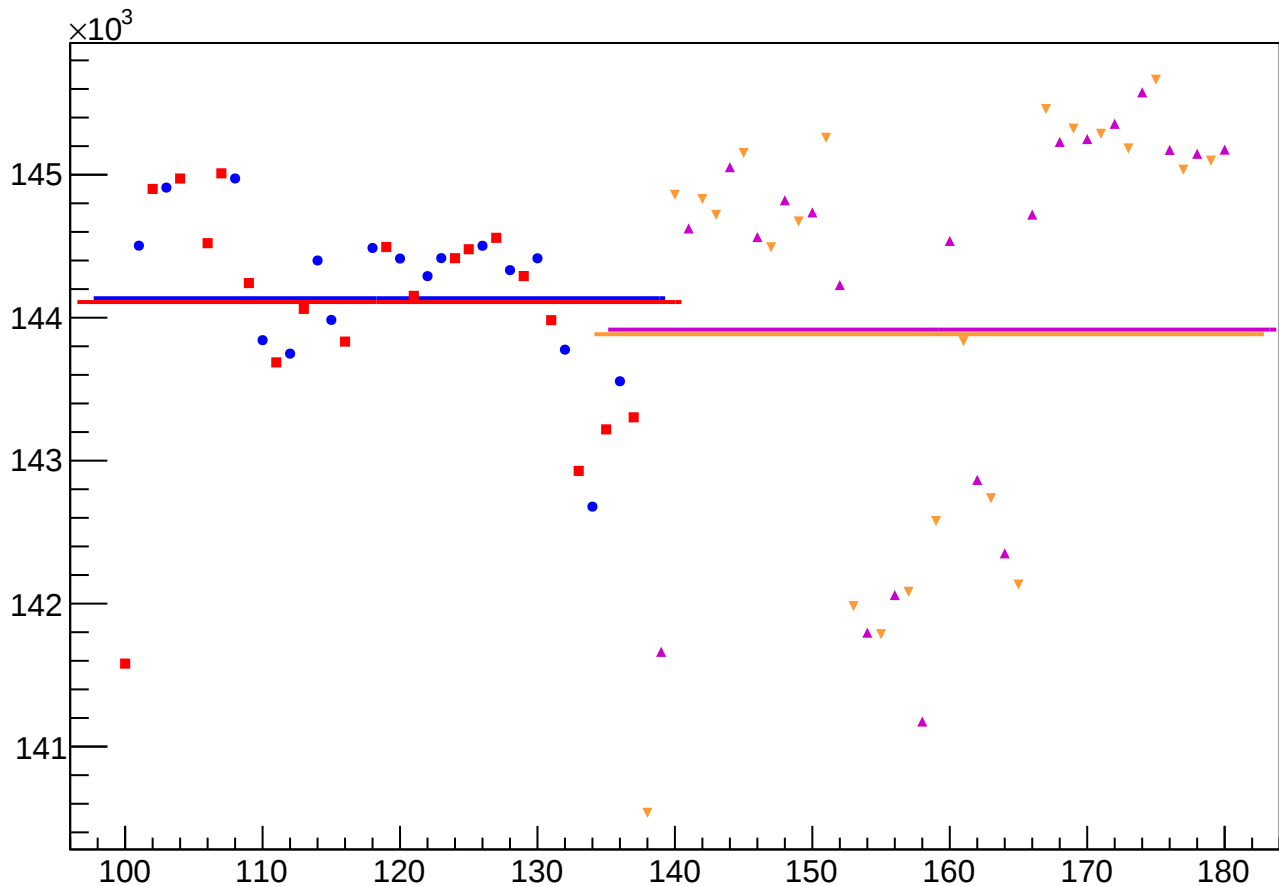
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 191.693 $\pm$ 0.030 χ^2 /NDF: 2896147.8/37

Out: 186.002 $\pm$ 0.028 χ^2 /NDF: 3398461.4/40

All: 188.740 $\pm$ 0.020 χ^2 /NDF: 6313918.7/78

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143900.206 $\pm$ 0.038

χ^2 /NDF: 1556989504.5/4

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Left Out: 143884.331 $\pm$ 0.054

χ^2 /NDF: 841644493.1/21

In: 144004.900 $\pm$ 0.042

χ^2 /NDF: 768701432.5/37

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Out: 143981.629 $\pm$ 0.041

χ^2 /NDF: 914417842.0/40

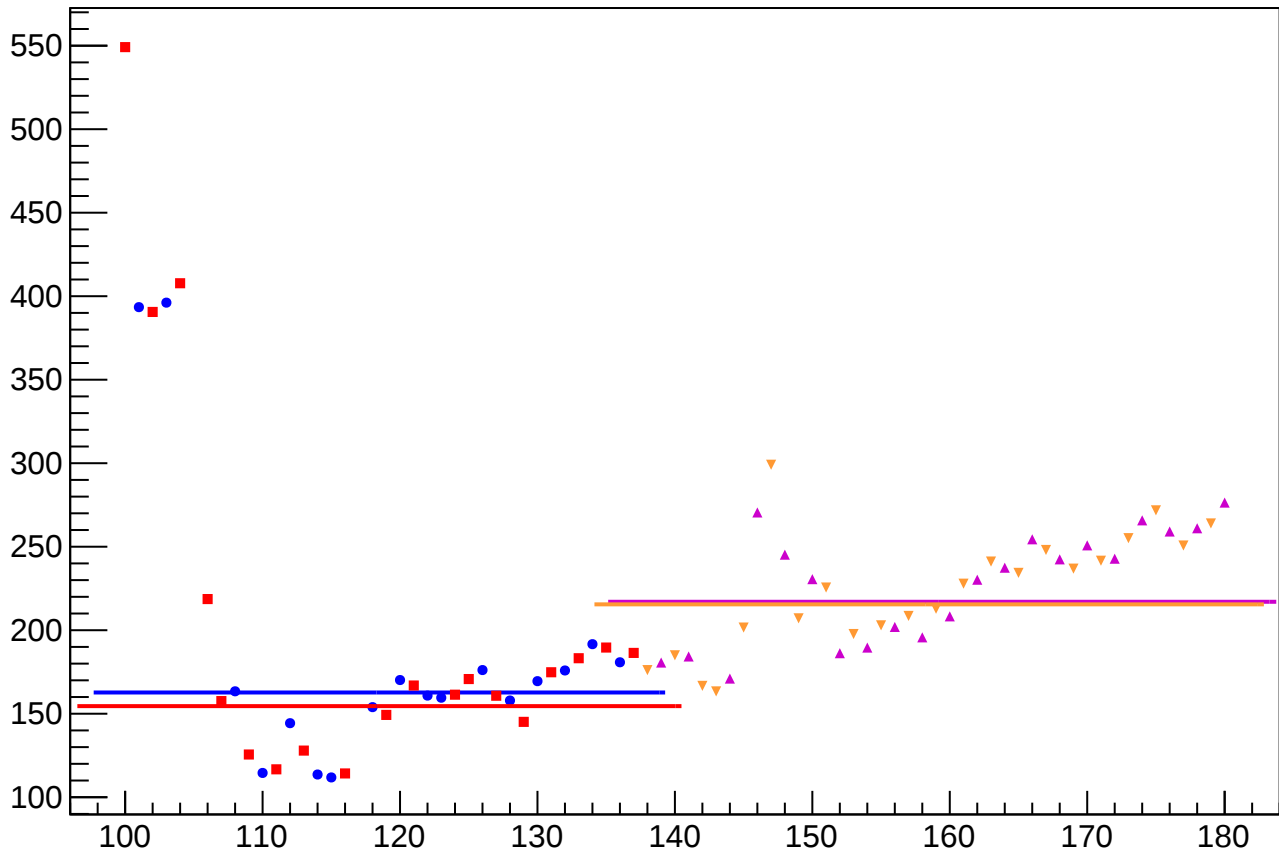
Left In: 143916.555 $\pm$ 0.055

χ^2 /NDF: 715169491.4/20

All: 143992.795 $\pm$ 0.029

χ^2 /NDF: 16832763

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714+/-0.047 χ^2/NDF : 1066482.0/16

Left Out: 215.488+/-0.038 χ^2/NDF : 744862.1/21

Right Out: 154.547+/-0.044 χ^2/NDF : 1217495.9/18

Left In: 217.033+/-0.039 χ^2/NDF : 738403.8/20

Left: 216.249+/-0.027 χ^2/NDF : 1484072.5/42

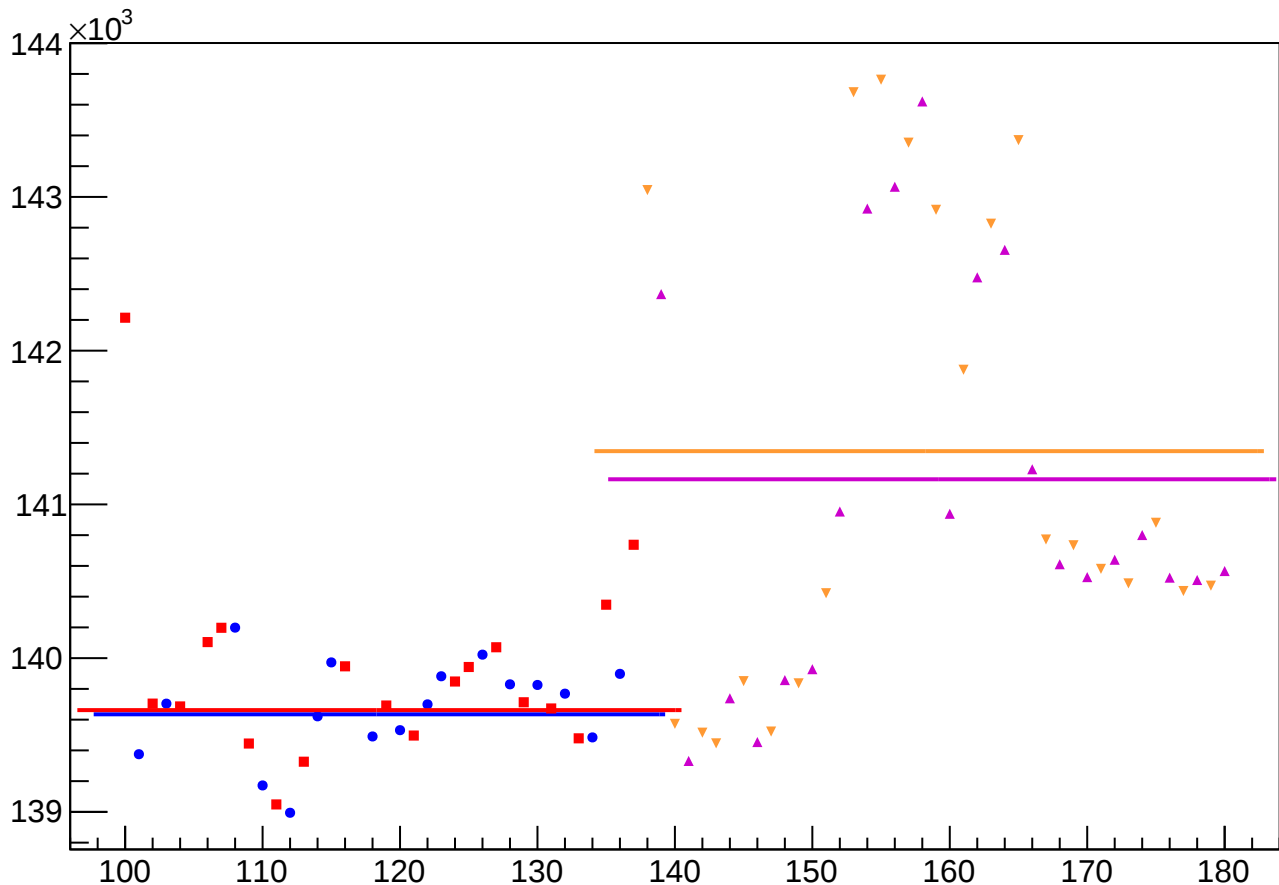
Right: 158.320+/-0.032 χ^2/NDF : 2300078.3/35

In: 195.177+/-0.030 χ^2/NDF : 2595940.9/37

Out: 189.145+/-0.029 χ^2/NDF : 3064052.5/40

All: 192.039+/-0.021 χ^2/NDF : 5681091.5/78

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068

χ^2/NDF : 24844912.0/16

Left Out: 141346.480+/-0.056

χ^2/NDF : 766566359.0/21

Right Out: 139661.970+/-0.063

χ^2/NDF : 38372985.0/18

Left In: 141163.432+/-0.056

χ^2/NDF : 548459556.7/20

Left: 141255.400+/-0.039

χ^2/NDF : 1320403302.3/4

Right: 139649.322+/-0.046

χ^2/NDF : 63304699.0/35

In: 140543.841+/-0.043

χ^2/NDF : 875861556.3/37

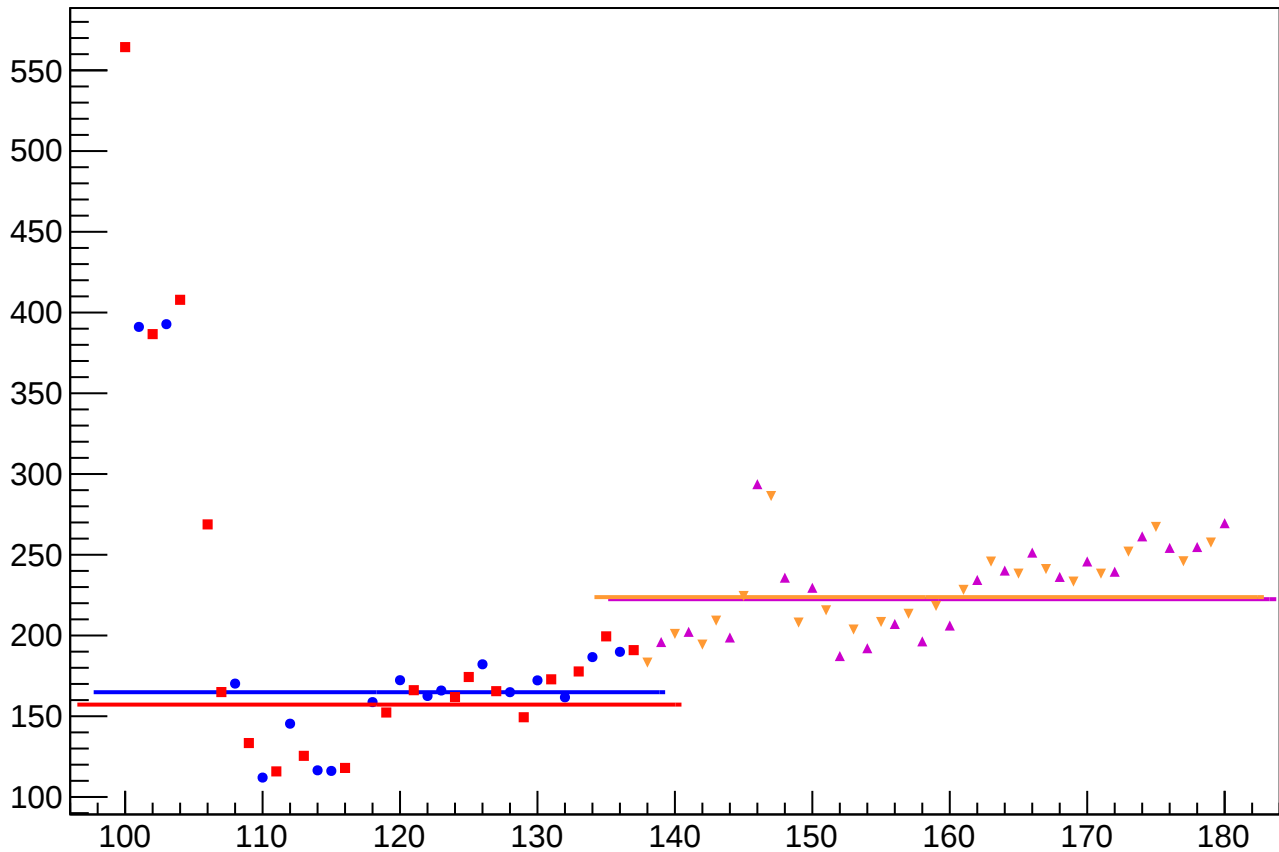
Out: 140608.186+/-0.042

χ^2/NDF : 1206066135.0/4

All: 140577.087+/-0.030

χ^2/NDF : 208307673

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 223.765 $\pm$ 0.039 χ^2 /NDF: 363734.2/21

Right Out: 157.207 $\pm$ 0.045 χ^2 /NDF: 1245030.9/18

Left In: 222.484 $\pm$ 0.040 χ^2 /NDF: 493880.9/20

Left: 223.128 $\pm$ 0.028 χ^2 /NDF: 858141.6/42

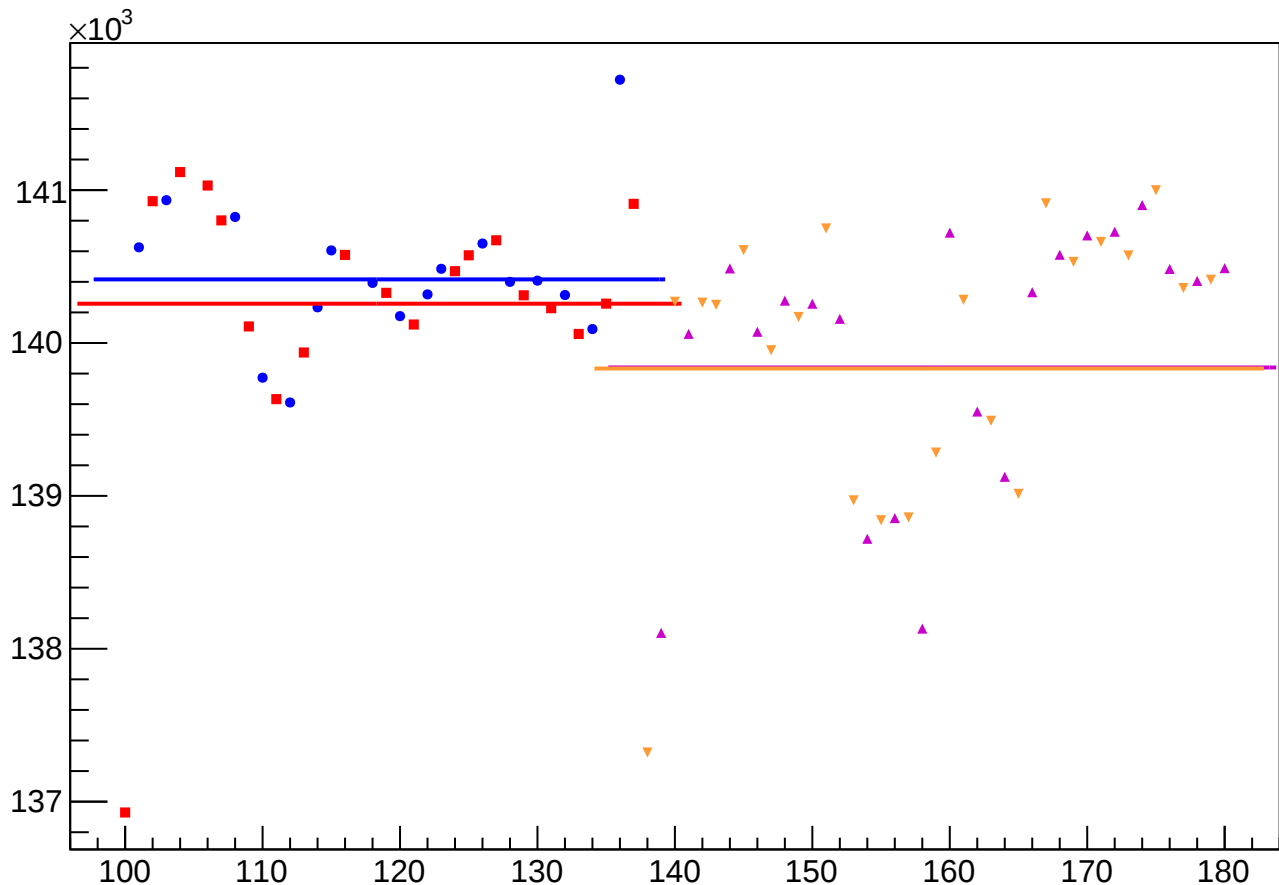
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 199.139 $\pm$ 0.031 χ^2 /NDF: 2419202.8/37

Out: 194.594 $\pm$ 0.030 χ^2 /NDF: 2861220.2/40

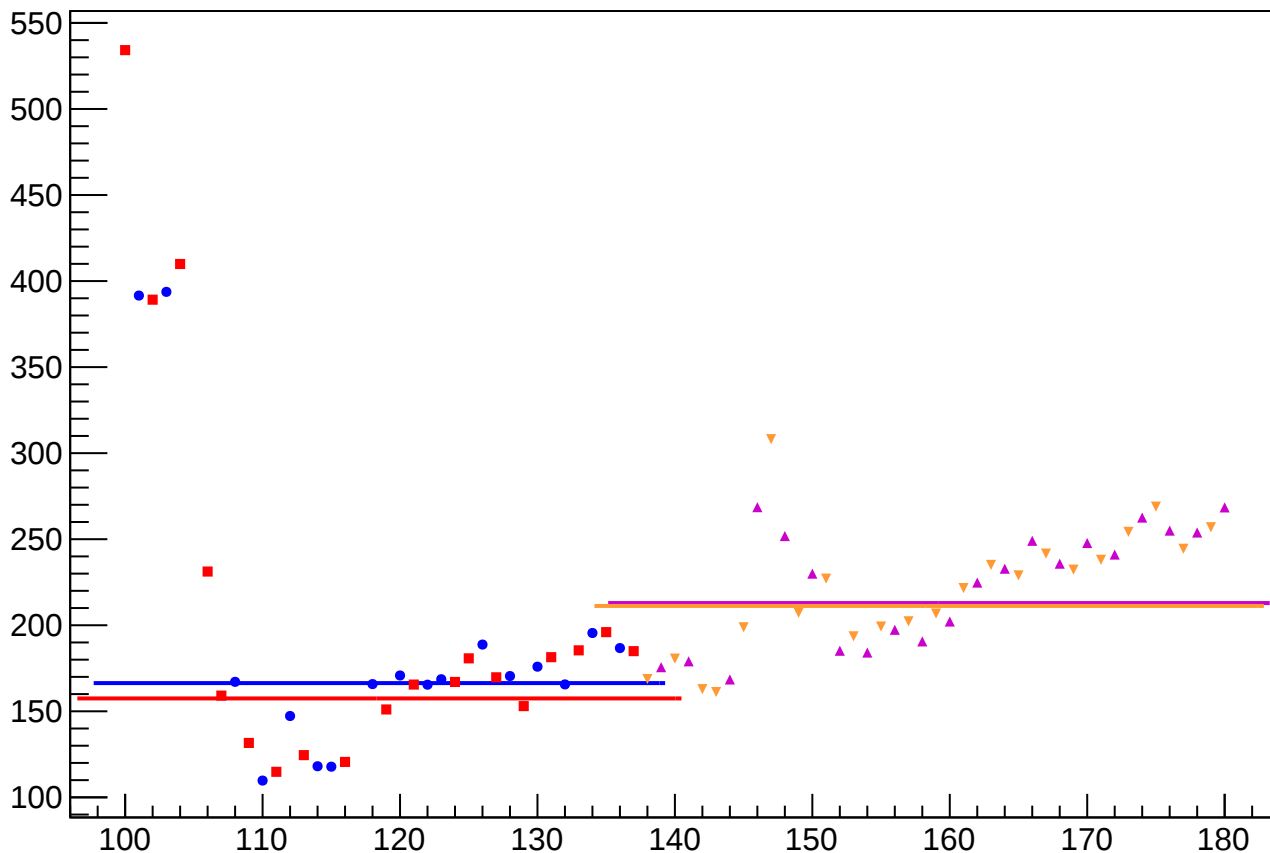
All: 196.791 $\pm$ 0.021 χ^2 /NDF: 5291890.0/78

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068	χ^2/NDF : 69975821.3/16	Left: 139836.473 $\pm$ 0.038	χ^2/NDF : 605852195.9/42
Left Out: 139833.142 $\pm$ 0.053	χ^2/NDF : 326373202.2/21	Right: 140330.188 $\pm$ 0.046	χ^2/NDF : 110959487.0/3
Right Out: 140256.992 $\pm$ 0.063	χ^2/NDF : 38063371.4/18	In: 140059.824 $\pm$ 0.042	χ^2/NDF : 393324747.5/37
Left In: 139839.908 $\pm$ 0.054	χ^2/NDF : 279470947.6/20	Out: 140008.026 $\pm$ 0.041	χ^2/NDF : 390902918.1/40
		All: 140032.865 $\pm$ 0.029	χ^2/NDF : 785009773

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2/NDF : 1080964.8/16

Left Out: 211.219 $\pm$ 0.037 χ^2/NDF : 800768.6/21

Right Out: 157.475 $\pm$ 0.045 χ^2/NDF : 1229886.8/18

Left In: 212.901 $\pm$ 0.038 χ^2/NDF : 774197.7/20

Left: 212.047 $\pm$ 0.027 χ^2/NDF : 1575961.5/42

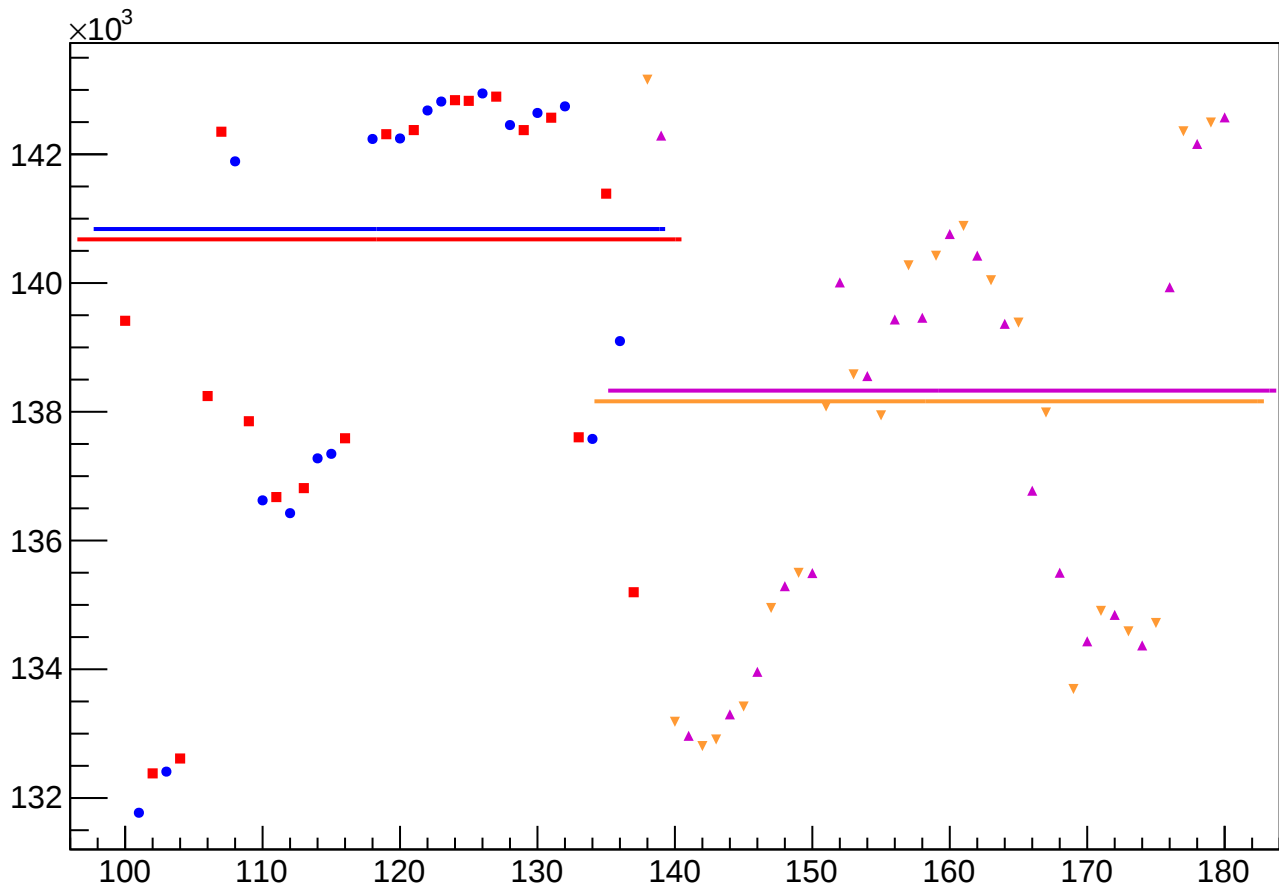
Right: 161.576 $\pm$ 0.033 χ^2/NDF : 2329186.5/35

In: 195.147 $\pm$ 0.030 χ^2/NDF : 2427107.3/37

Out: 189.044 $\pm$ 0.029 χ^2/NDF : 2881703.6/40

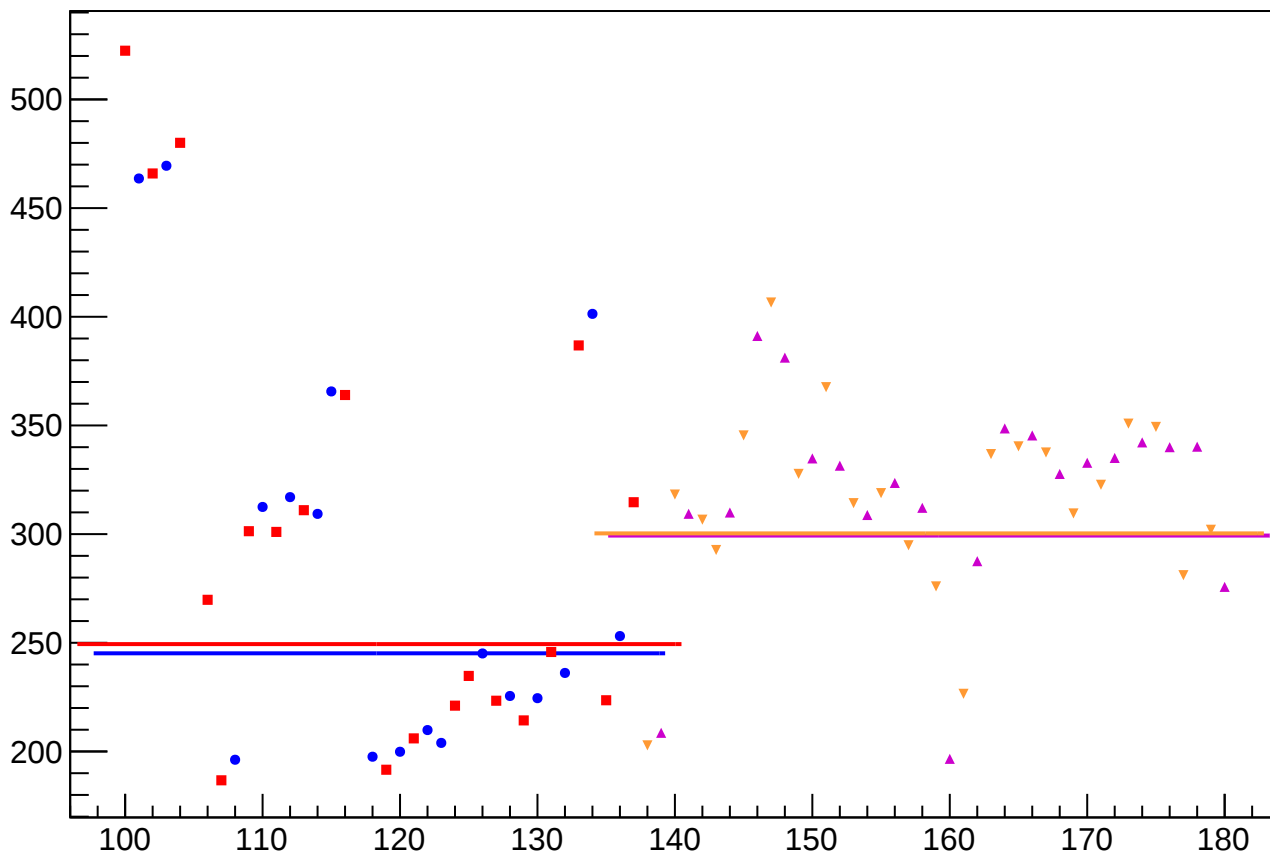
All: 191.971 $\pm$ 0.021 χ^2/NDF : 5330528.8/78

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138245.143 $\pm$ 0.054	χ^2/NDF : 3909751729.2/4
Left Out: 138162.710 $\pm$ 0.076	χ^2/NDF : 2129665917.9/21	Right: 140758.088 $\pm$ 0.070	χ^2/NDF : 1664679717.2/21
Right Out: 140678.513 $\pm$ 0.099	χ^2/NDF : 840695274.4/18	In: 139252.465 $\pm$ 0.061	χ^2/NDF : 2998592078.9/37
Left In: 138328.817 $\pm$ 0.076	χ^2/NDF : 1777698774.9/20	Out: 139090.337 $\pm$ 0.060	χ^2/NDF : 3377201080.7/4
		All: 139170.745 $\pm$ 0.043	χ^2/NDF : 637939323.2/20

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159+/-0.071 χ^2/NDF : 869491.6/16

Left Out: 300.336+/-0.054 χ^2/NDF : 843448.3/21

Right Out: 249.397+/-0.070 χ^2/NDF : 1009731.2/18

Left In: 299.334+/-0.054 χ^2/NDF : 1049100.1/20

Left: 299.839+/-0.038 χ^2/NDF : 1892722.2/42

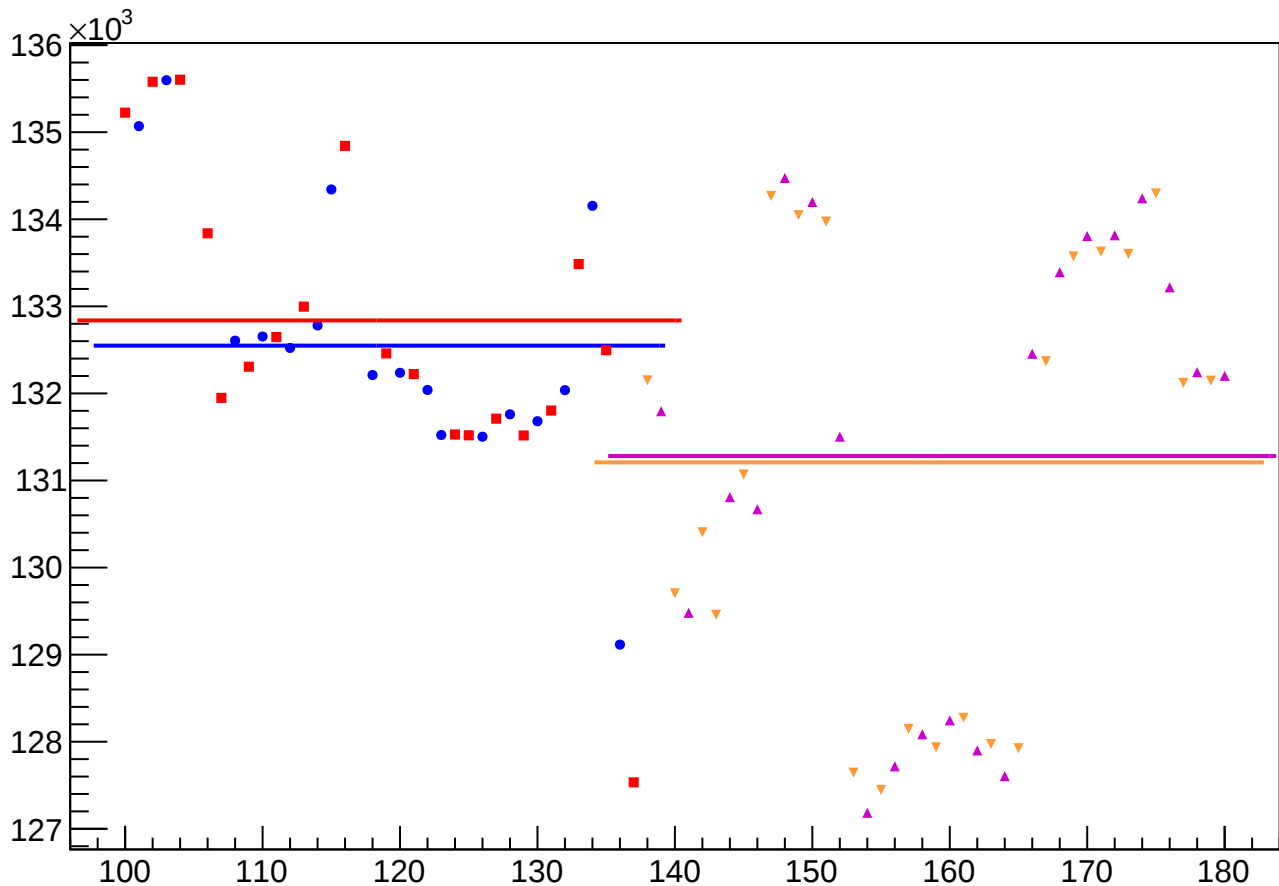
Right: 247.297+/-0.050 χ^2/NDF : 1881034.9/35

In: 279.401+/-0.043 χ^2/NDF : 2289515.6/37

Out: 281.554+/-0.043 χ^2/NDF : 2186767.0/40

All: 280.486+/-0.030 χ^2/NDF : 4477552.6/78

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 131208.137 $\pm$ 0.066 χ^2 /NDF: 1163671503.2/21

Right Out: 132838.294 $\pm$ 0.107 χ^2 /NDF: 149611447.6/18

Left In: 131280.989 $\pm$ 0.069 χ^2 /NDF: 1056038397.4/20

Left: 131242.921 $\pm$ 0.048 χ^2 /NDF: 2220285554.3/4

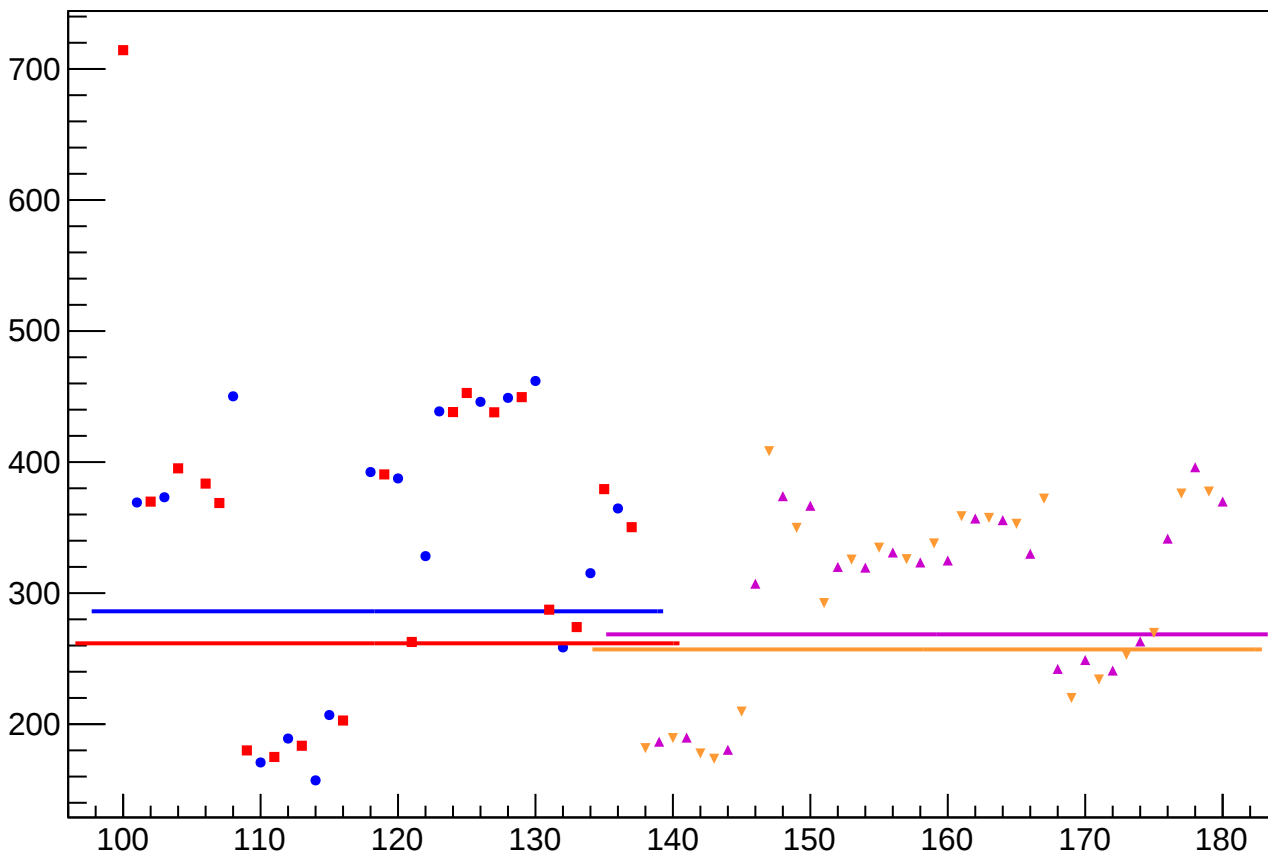
Right: 132709.226 $\pm$ 0.080 χ^2 /NDF: 313982981.1/3

In: 131601.347 $\pm$ 0.060 χ^2 /NDF: 1301464173.0/3

Out: 131660.243 $\pm$ 0.056 χ^2 /NDF: 1480704818.5/4

All: 131632.615 $\pm$ 0.041 χ^2 /NDF: 278268048

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 257.033 $\pm$ 0.047 χ^2 /NDF: 2477783.9/21

Right Out: 261.686 $\pm$ 0.076 χ^2 /NDF: 1623174.1/18

Left In: 268.536 $\pm$ 0.049 χ^2 /NDF: 2048510.6/20

Left: 262.525 $\pm$ 0.034 χ^2 /NDF: 4555000.1/42

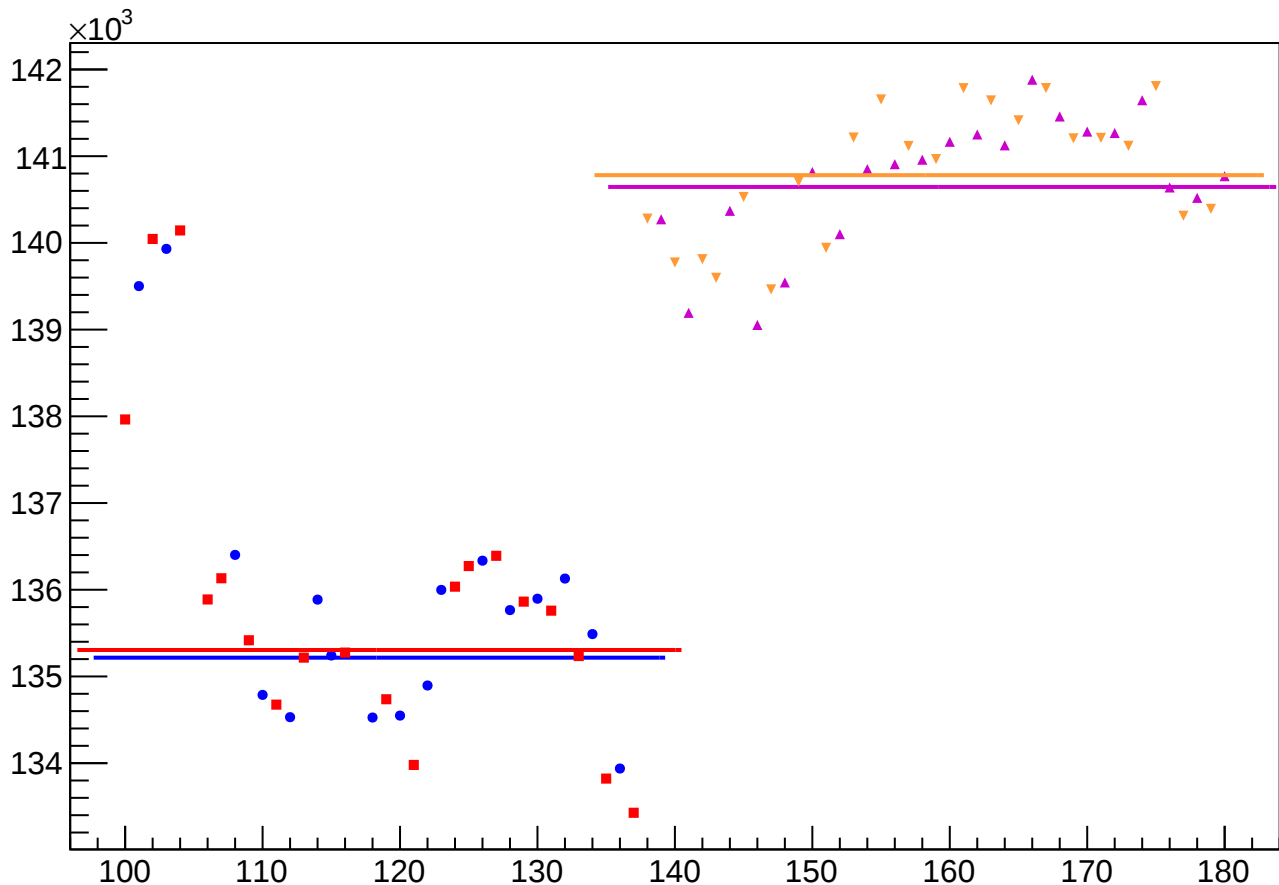
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 272.980 $\pm$ 0.042 χ^2 /NDF: 3606216.0/37

Out: 258.323 $\pm$ 0.040 χ^2 /NDF: 4103686.4/40

All: 265.199 $\pm$ 0.029 χ^2 /NDF: 7773252.1/78

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140781.195 $\pm$ 0.050 χ^2 /NDF: 221350770.5/21

Right Out: 135305.135 $\pm$ 0.051 χ^2 /NDF: 357636841.6/18

Left In: 140645.255 $\pm$ 0.052 χ^2 /NDF: 191036754.7/20

Left: 140715.961 $\pm$ 0.036 χ^2 /NDF: 415957254.9/42

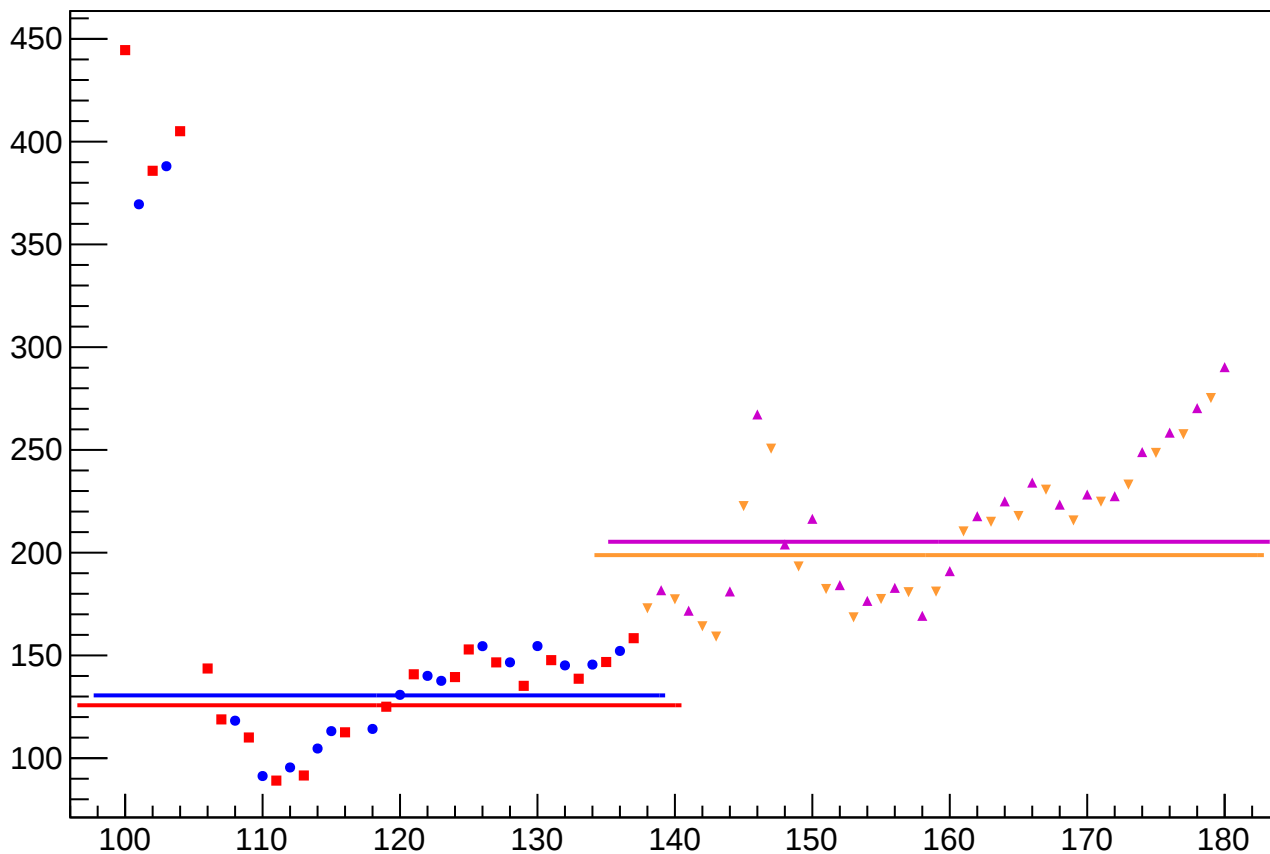
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/3

In: 138056.835 $\pm$ 0.038 χ^2 /NDF: 5780980218.1/37

Out: 138113.632 $\pm$ 0.036 χ^2 /NDF: 6459239761.5/4

All: 138086.660 $\pm$ 0.026 χ^2 /NDF: 122414223

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 198.807 $\pm$ 0.035 χ^2 /NDF: 753087.3/21

Right Out: 125.746 $\pm$ 0.036 χ^2 /NDF: 1440002.5/18

Left In: 205.305 $\pm$ 0.037 χ^2 /NDF: 790261.7/20

Left: 201.926 $\pm$ 0.025 χ^2 /NDF: 1559662.3/42

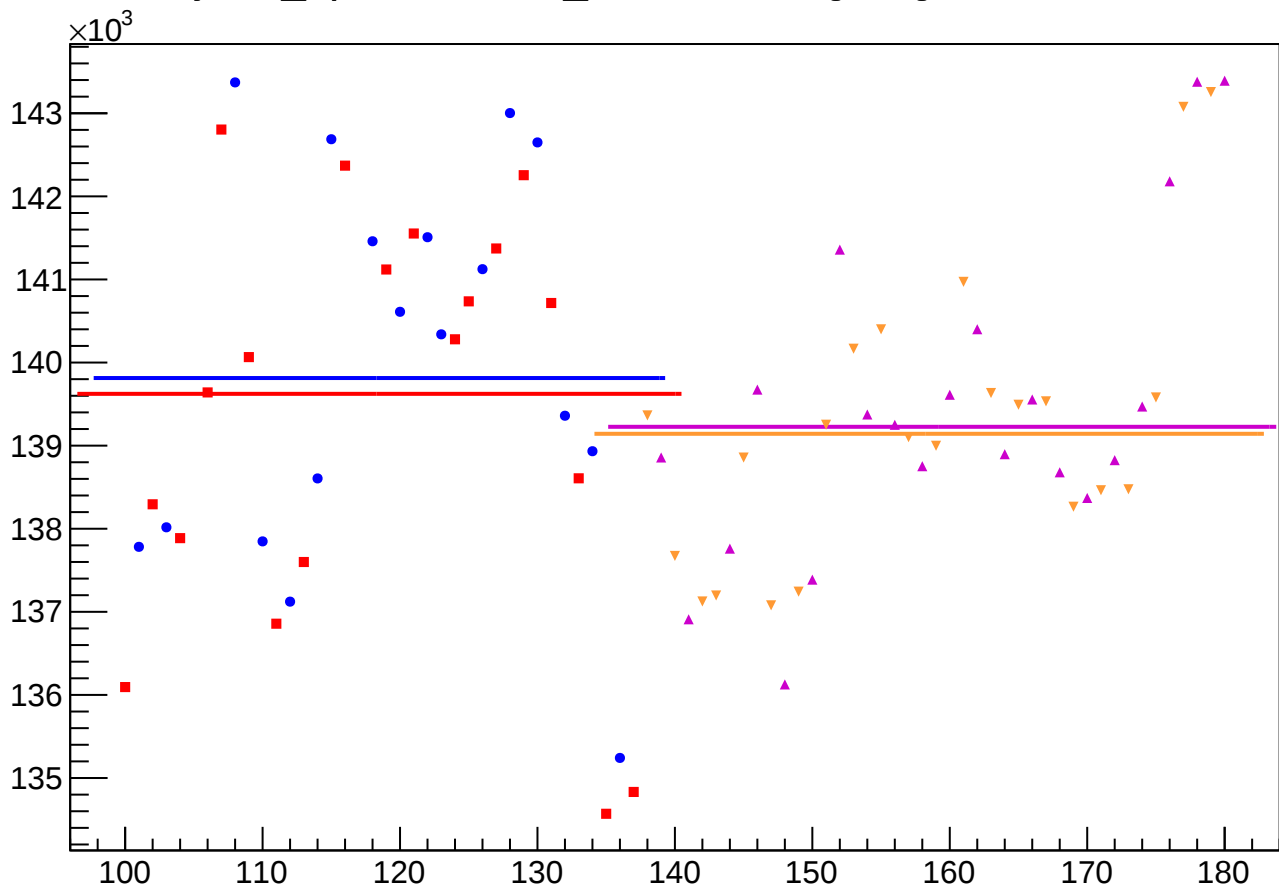
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 169.662 $\pm$ 0.027 χ^2 /NDF: 4142450.8/37

Out: 163.217 $\pm$ 0.025 χ^2 /NDF: 4286572.0/40

All: 166.278 $\pm$ 0.018 χ^2 /NDF: 8459995.8/78

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2 /NDF: 1689865533.6/16

Left: 139183.744 $\pm$ 0.036

χ^2 /NDF: 2076454829.3/4

Left Out: 139142.541 $\pm$ 0.051

χ^2 /NDF: 921610219.2/21

Right: 139713.961 $\pm$ 0.043

χ^2 /NDF: 3200544274.5/4

Right Out: 139623.387 $\pm$ 0.059

χ^2 /NDF: 1505731109.1/18

In: 139467.853 $\pm$ 0.040

χ^2 /NDF: 2896288473.2/3

Out: 139346.315 $\pm$ 0.038

χ^2 /NDF: 2465589363.6/4

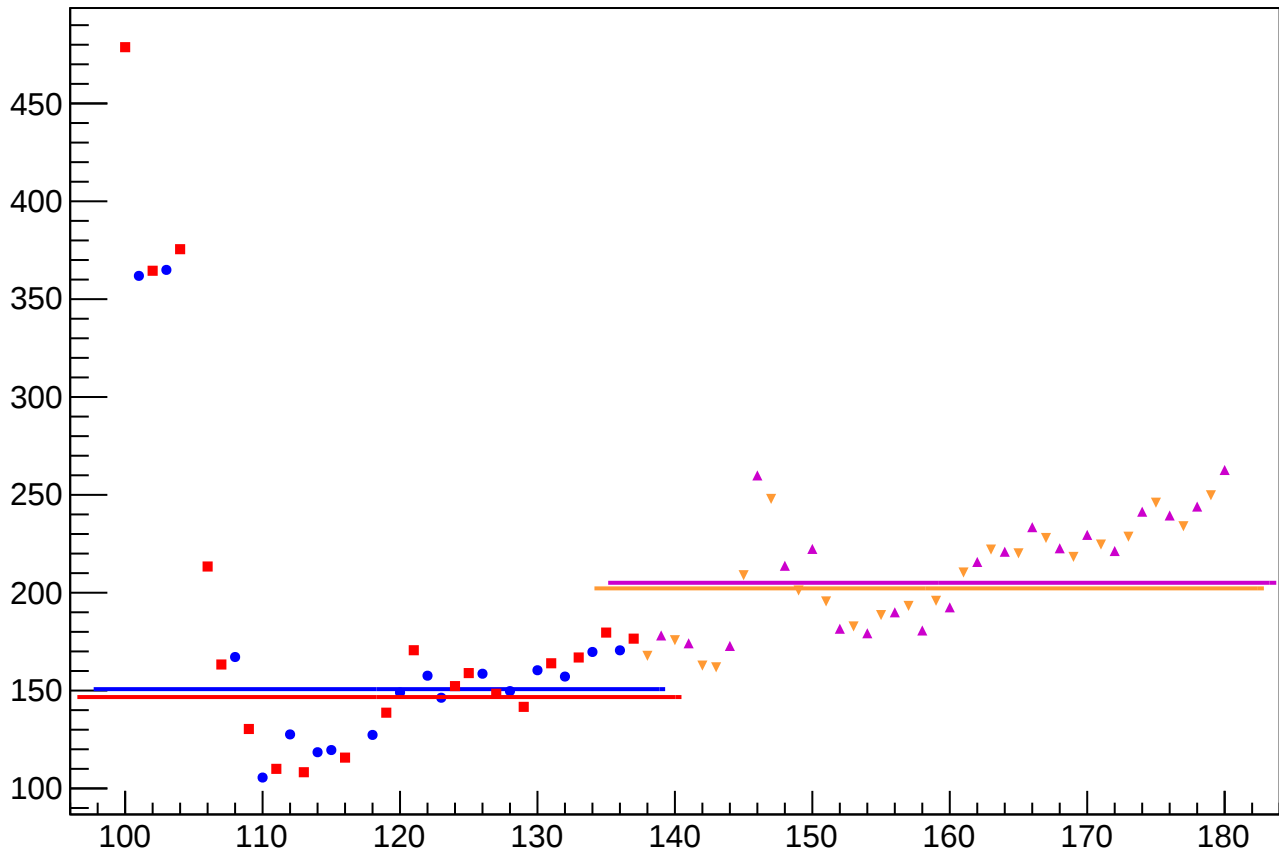
Left In: 139226.743 $\pm$ 0.052

χ^2 /NDF: 1153490350.2/20

All: 139405.112 $\pm$ 0.028

χ^2 /NDF: 536671883.6/20

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 202.212 $\pm$ 0.036 χ^2 /NDF:532796.8/21

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 205.076 $\pm$ 0.037 χ^2 /NDF:578698.0/20

Left: 203.614 $\pm$ 0.026 χ^2 /NDF: 1114627.8/42

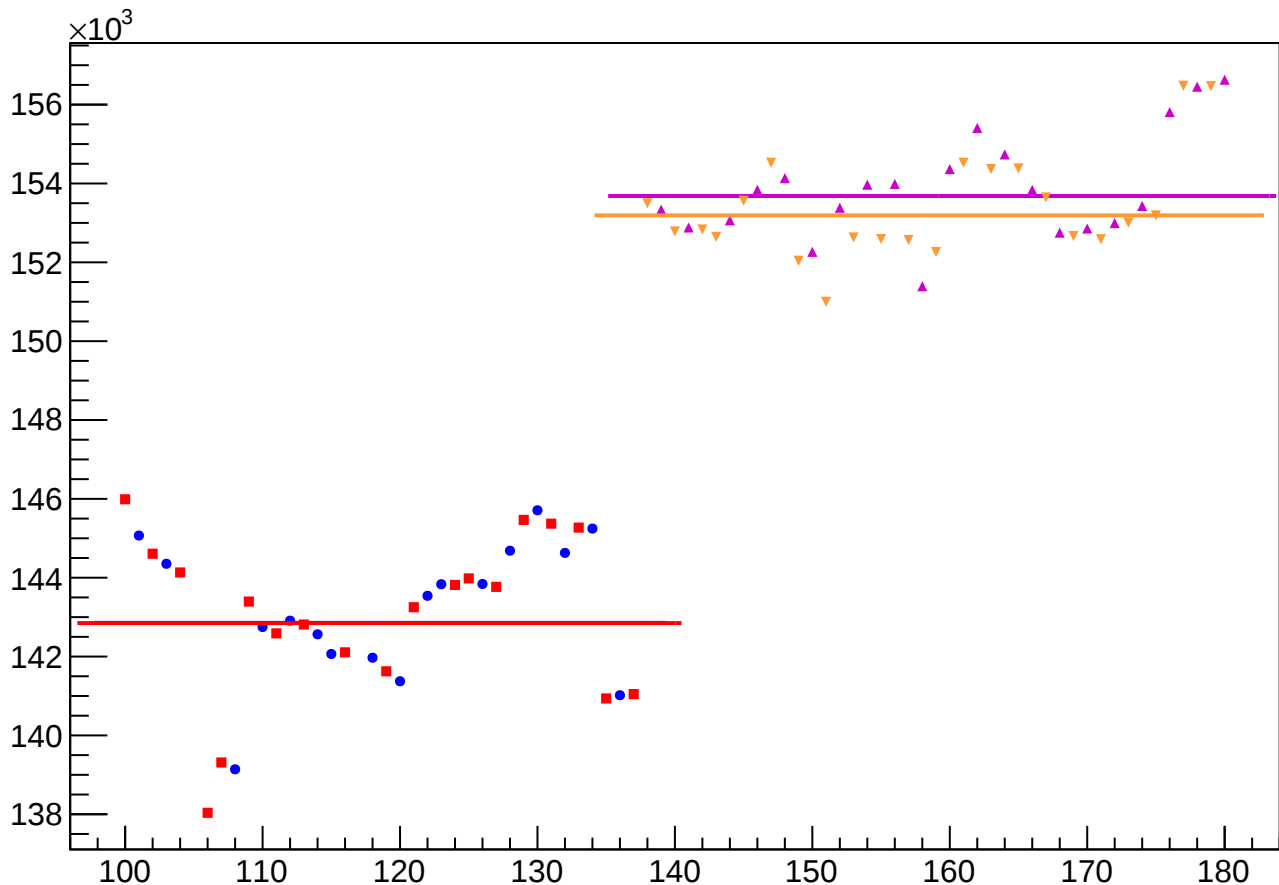
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 182.752 $\pm$ 0.028 χ^2 /NDF:2536339.3/37

Out: 178.681 $\pm$ 0.027 χ^2 /NDF:2755967.4/40

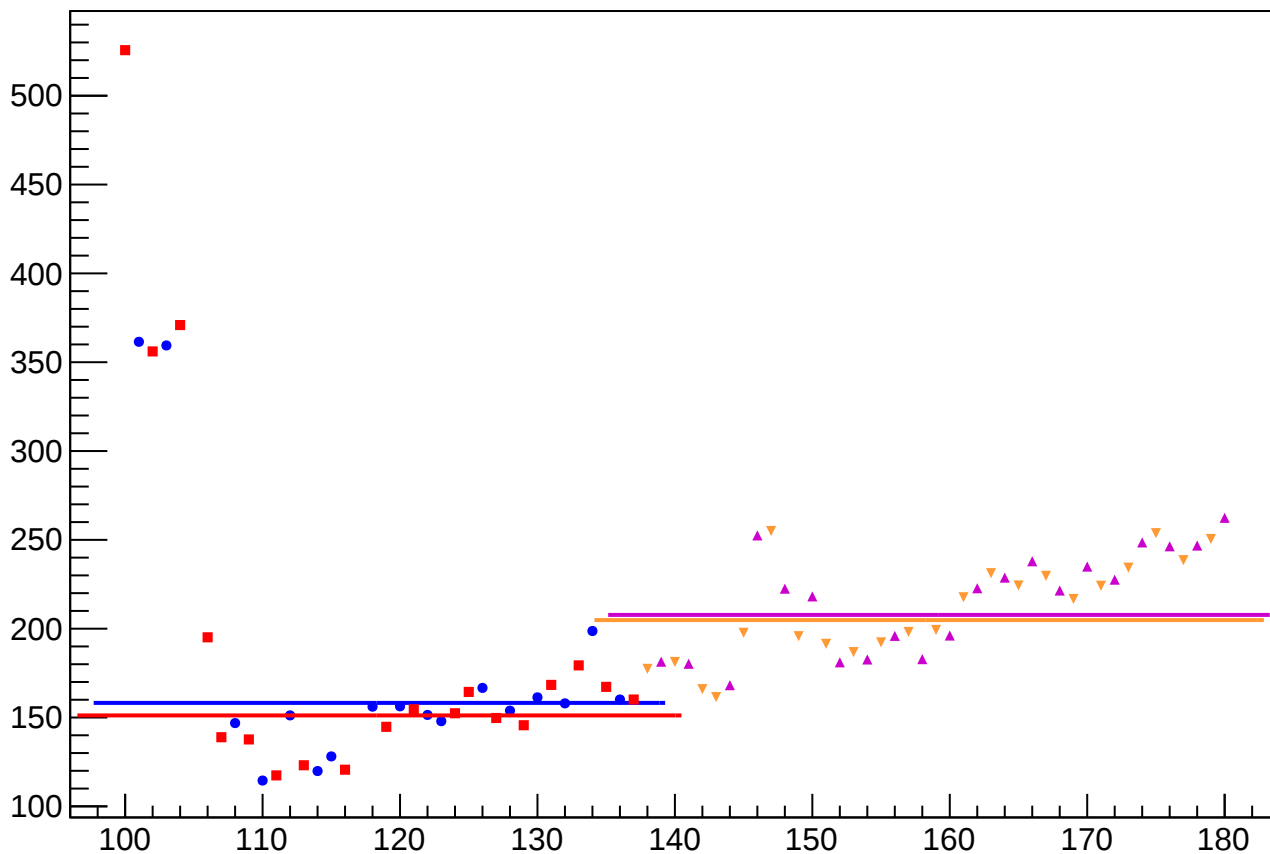
All: 180.650 $\pm$ 0.020 χ^2 /NDF: 5303166.9/78

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16
 Left Out: 153191.330 $\pm$ 0.051 χ^2 /NDF: 565660072.2/21
 Right Out: 142849.362 $\pm$ 0.060 χ^2 /NDF: 850066807.5/18
 Left In: 153682.784 $\pm$ 0.052 χ^2 /NDF: 566564825.7/20
 All: 149120.015 $\pm$ 0.028 χ^2 /NDF: 36810358

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 204.841+/-0.036 χ^2/NDF : 530193.3/21

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 207.757+/-0.037 χ^2/NDF : 590246.2/20

Left: 206.267+/-0.026 χ^2/NDF : 1123611.1/42

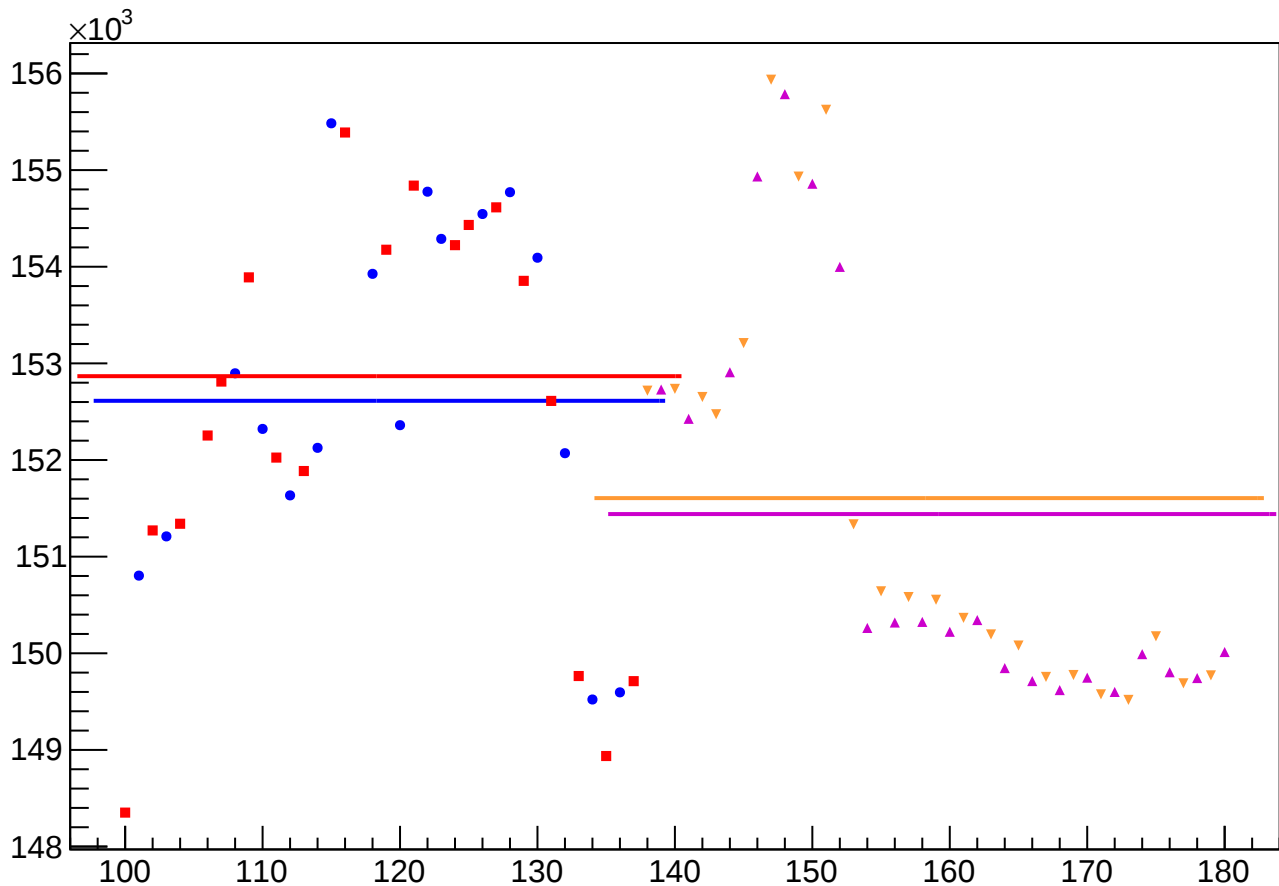
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 188.153+/-0.029 χ^2/NDF : 2182535.8/37

Out: 182.392+/-0.028 χ^2/NDF : 2452075.6/40

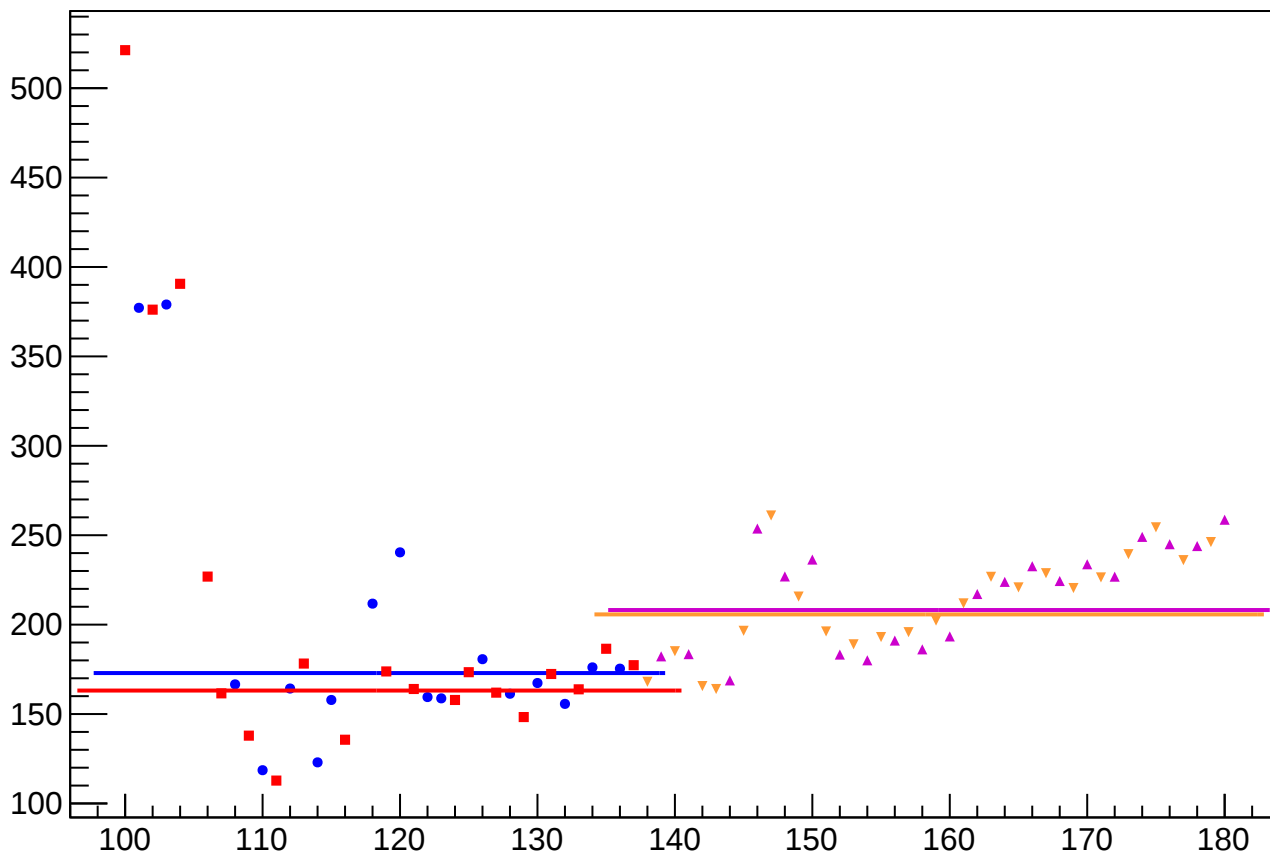
All: 185.155+/-0.020 χ^2/NDF : 4655480.5/78

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16
 Left Out: 151605.653 $\pm$ 0.051 χ^2 /NDF:1373366563.2/21
 Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18
 Left In: 151440.615 $\pm$ 0.052 χ^2 /NDF:1359148726.2/20
 Left: 151524.812 $\pm$ 0.037 χ^2 /NDF: 2737588436.1/4
 Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/4
 In: 151844.558 $\pm$ 0.042 χ^2 /NDF:2153400263.1/3
 Out: 152078.730 $\pm$ 0.041 χ^2 /NDF:2319421122.5/4
 All: 151966.789 $\pm$ 0.029 χ^2 /NDF: 44887674.

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 205.723+/-0.036 χ^2/NDF : 539855.1/21

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 208.169+/-0.037 χ^2/NDF : 580120.9/20

Left: 206.921+/-0.026 χ^2/NDF : 1122204.7/42

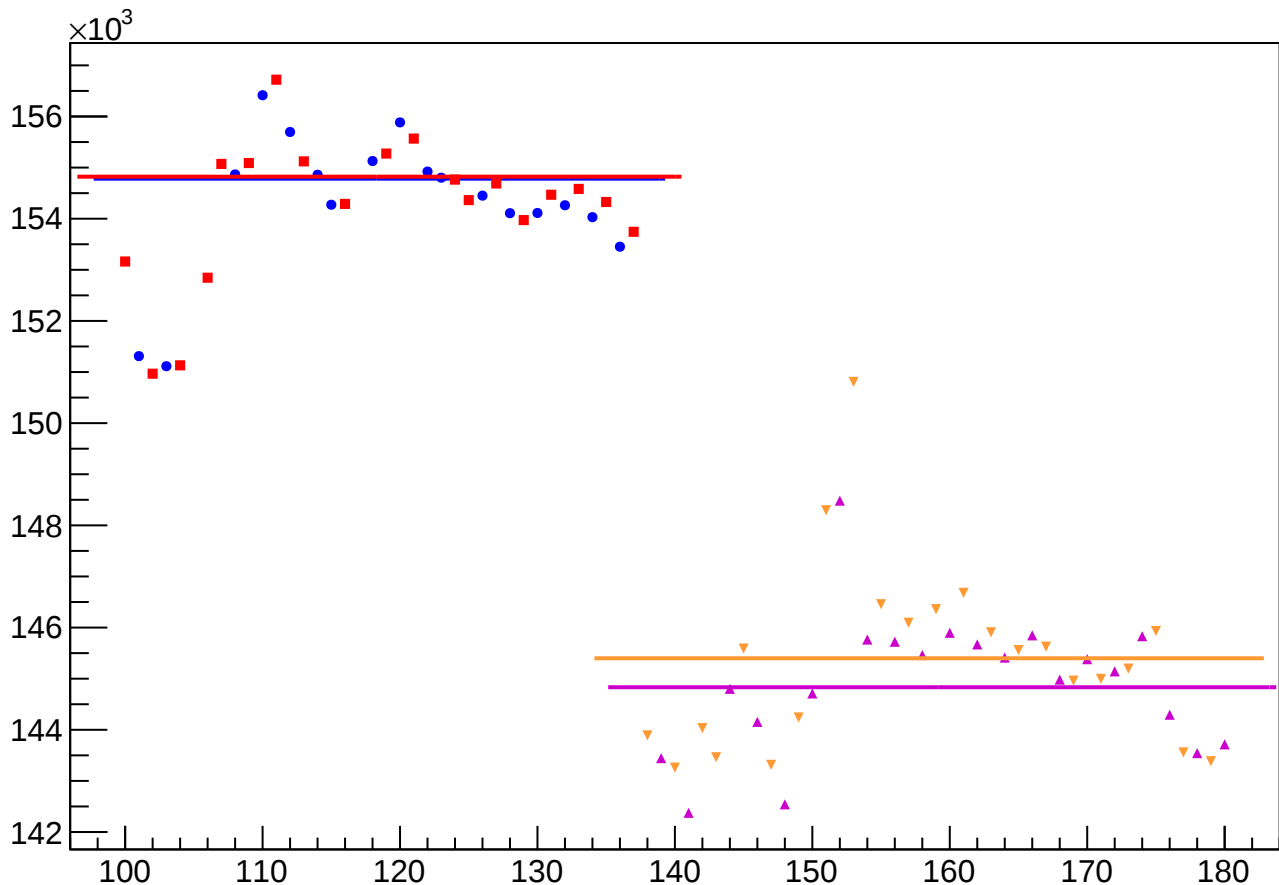
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 196.020+/-0.030 χ^2/NDF : 1834753.2/37

Out: 189.757+/-0.029 χ^2/NDF : 2090665.0/40

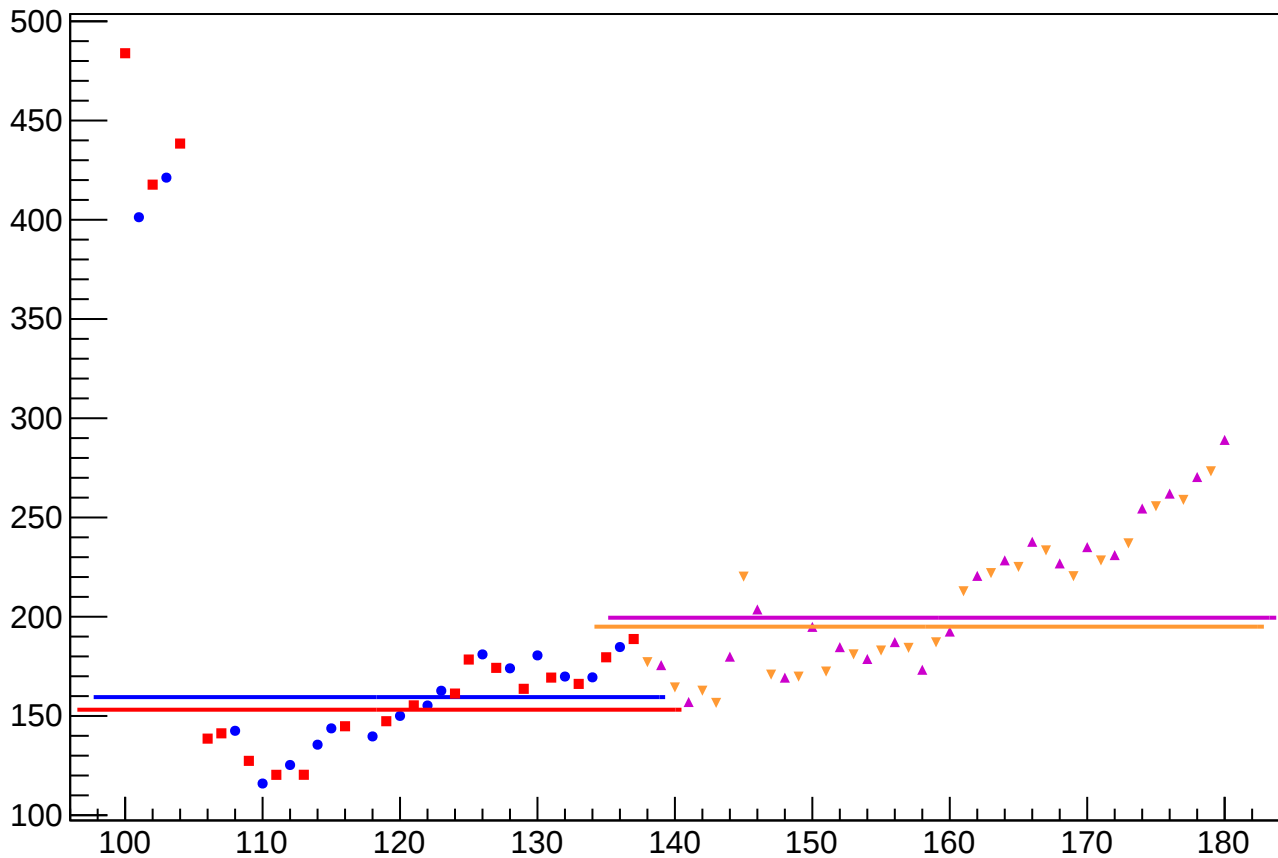
All: 192.751+/-0.021 χ^2/NDF : 3948231.1/78

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145125.085 $\pm$ 0.035	χ^2 /NDF: 2520081528.4/4
Left Out: 145399.616 $\pm$ 0.049	χ^2 /NDF: 1581173803.3/21	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: 148533.325 $\pm$ 0.040	χ^2 /NDF: 15695704074.4/3
Left In: 144832.893 $\pm$ 0.050	χ^2 /NDF: 873447137.4/20	Out: 149080.513 $\pm$ 0.038	χ^2 /NDF: 16467821440.2
		All: 148819.593 $\pm$ 0.028	χ^2 /NDF: 322621072

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2 /NDF: 1131844.5/16

Left Out: 194.994 $\pm$ 0.034 χ^2 /NDF: 830312.1/21

Right Out: 153.153 $\pm$ 0.043 χ^2 /NDF: 1173739.7/18

Left In: 199.502 $\pm$ 0.036 χ^2 /NDF: 875475.8/20

Left: 197.178 $\pm$ 0.025 χ^2 /NDF: 1714073.5/42

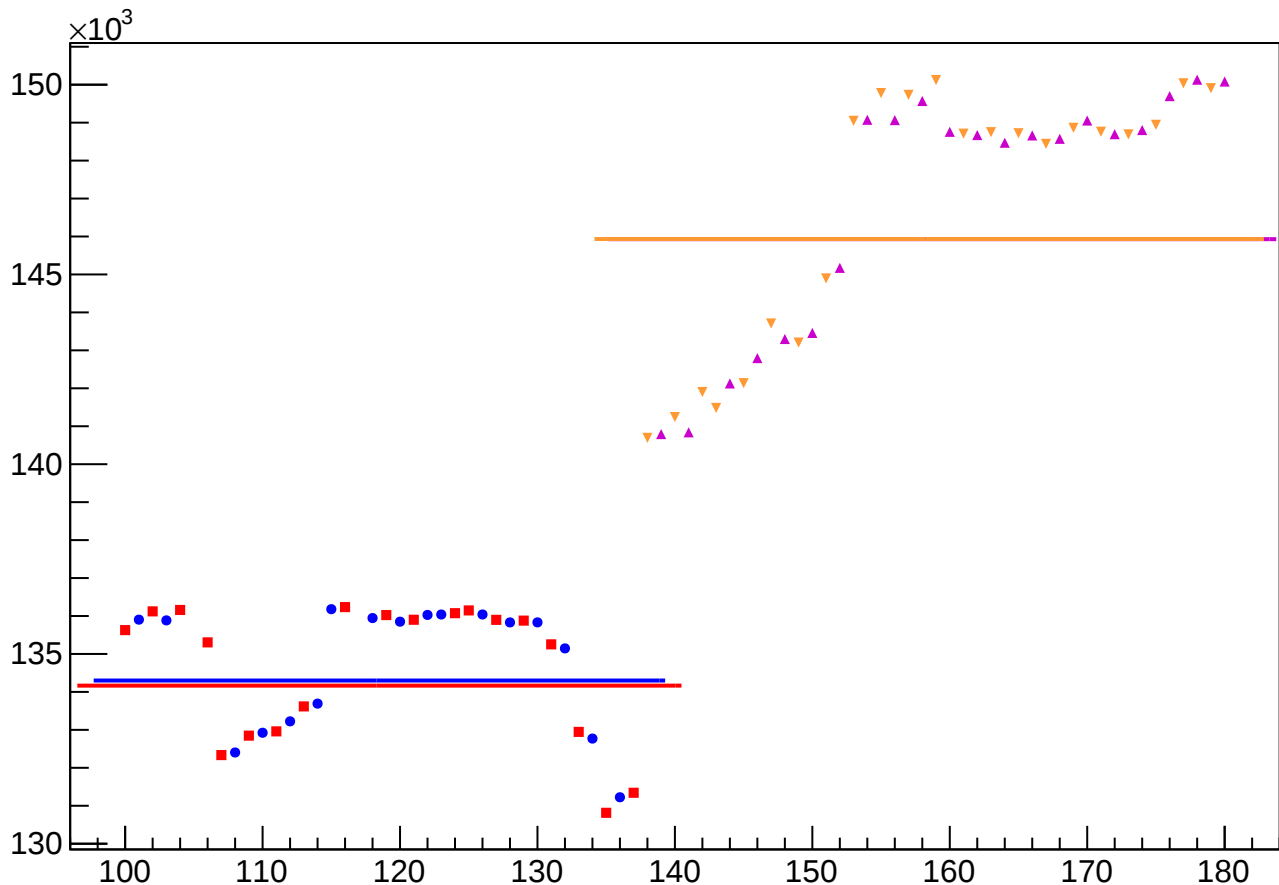
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 184.628 $\pm$ 0.028 χ^2 /NDF: 2477688.0/37

Out: 178.649 $\pm$ 0.027 χ^2 /NDF: 2579520.1/40

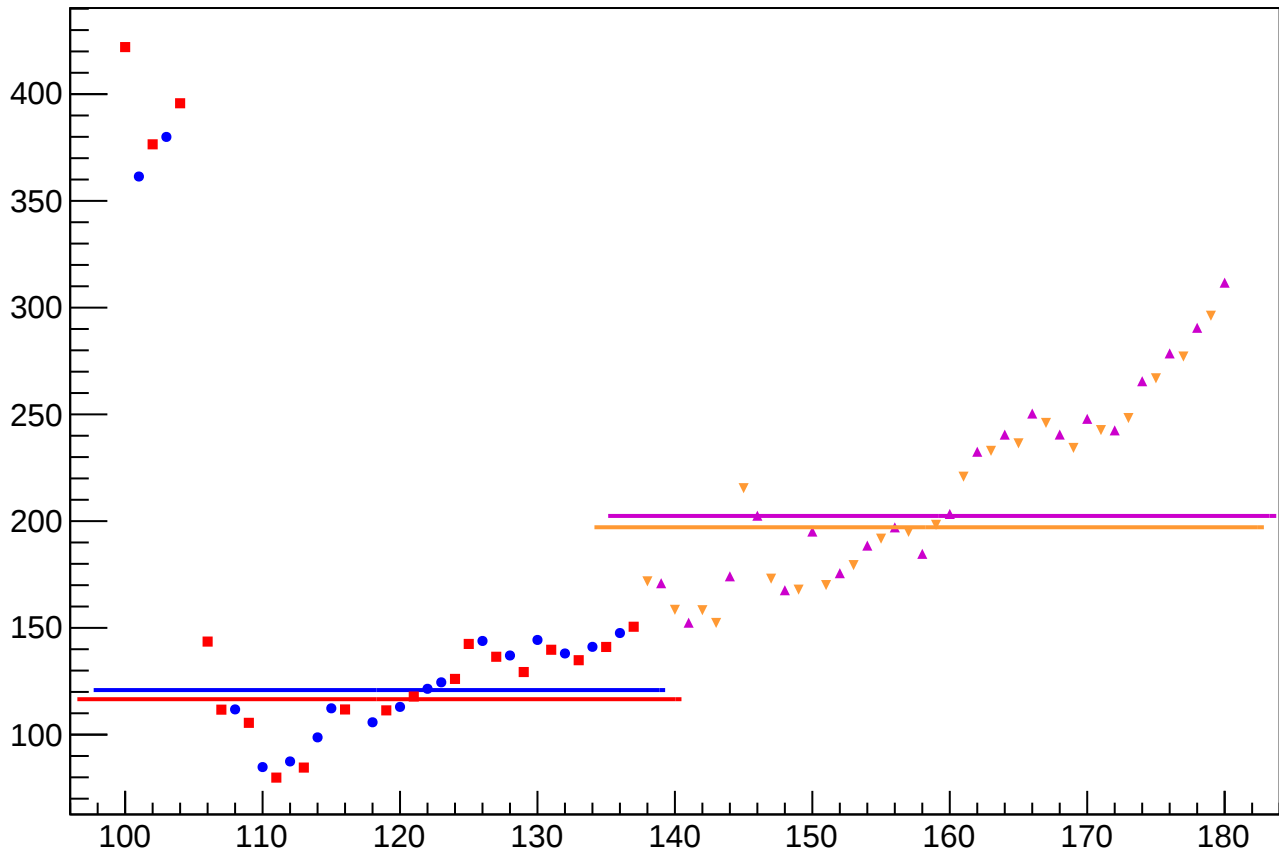
All: 181.500 $\pm$ 0.019 χ^2 /NDF: 5080751.3/78

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025+/-0.050	χ^2/NDF : 1149581803.2/16	Left: 145931.805+/-0.036	χ^2/NDF : 9578620312.1/4
Left Out: 145933.566+/-0.050	χ^2/NDF : 5107428921.1/21	Right: 134228.768+/-0.035	χ^2/NDF : 2364832007.2/4
Right Out: 134165.615+/-0.047	χ^2/NDF : 1211471052.4/18	In: 140003.262+/-0.036	χ^2/NDF : 31792523148.2/3
Left In: 145929.917+/-0.051	χ^2/NDF : 4471188774.7/20	Out: 139787.778+/-0.034	χ^2/NDF : 35774689644.4/3
		All: 139890.341+/-0.025	χ^2/NDF : 675860533.7/1

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 197.129 $\pm$ 0.035 χ^2 /NDF: 1154619.7/21

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 202.433 $\pm$ 0.036 χ^2 /NDF: 1185640.8/20

Left: 199.688 $\pm$ 0.025 χ^2 /NDF: 2351317.5/42

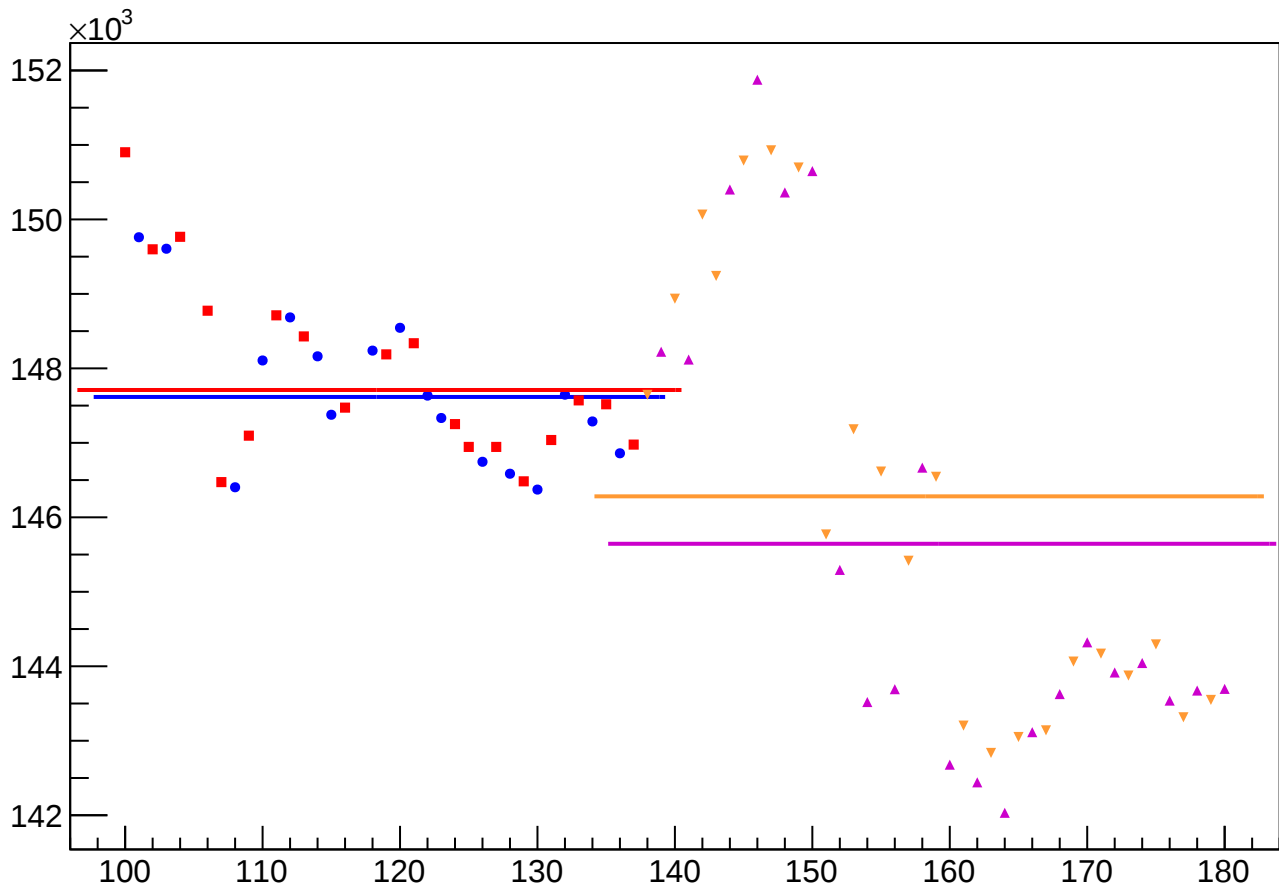
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 160.869 $\pm$ 0.025 χ^2 /NDF: 5223765.7/37

Out: 155.070 $\pm$ 0.024 χ^2 /NDF: 5455034.2/40

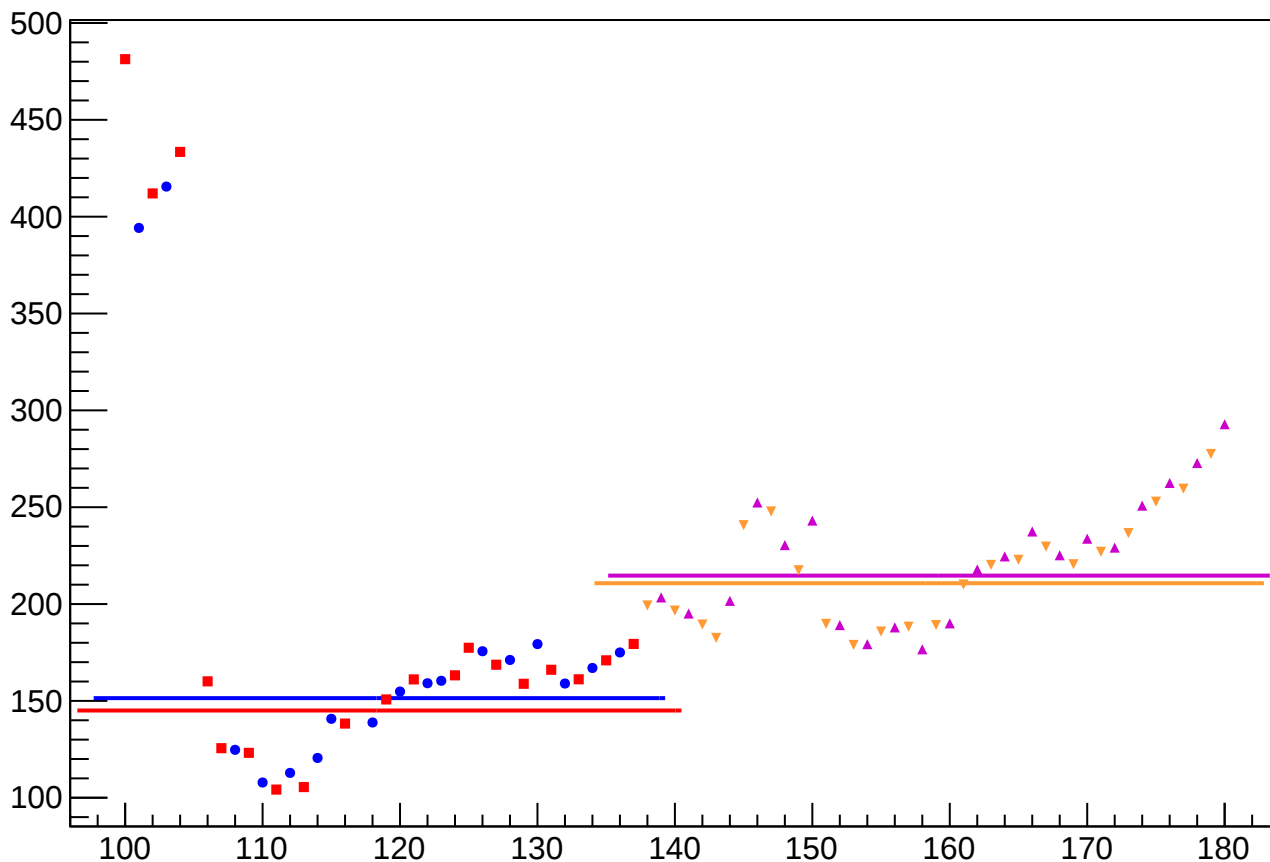
All: 157.830 $\pm$ 0.018 χ^2 /NDF: 10706092.4/78

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 145972.043+/-0.038	χ^2/NDF : 5551437895.3/4
Left Out: 146281.681+/-0.052	χ^2/NDF : 2497768800.6/21	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146486.654+/-0.041	χ^2/NDF : 3751631943.1/37
Left In: 145644.744+/-0.054	χ^2/NDF : 2982033600.7/20	Out: 146920.434+/-0.039	χ^2/NDF : 3032999071.6/4
		All: 146713.451+/-0.028	χ^2/NDF : 684363567.1/10

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 210.753+/-0.037 χ^2/NDF : 491155.0/21

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 214.679+/-0.038 χ^2/NDF : 629059.6/20

Left: 212.661+/-0.027 χ^2/NDF : 1125656.0/42

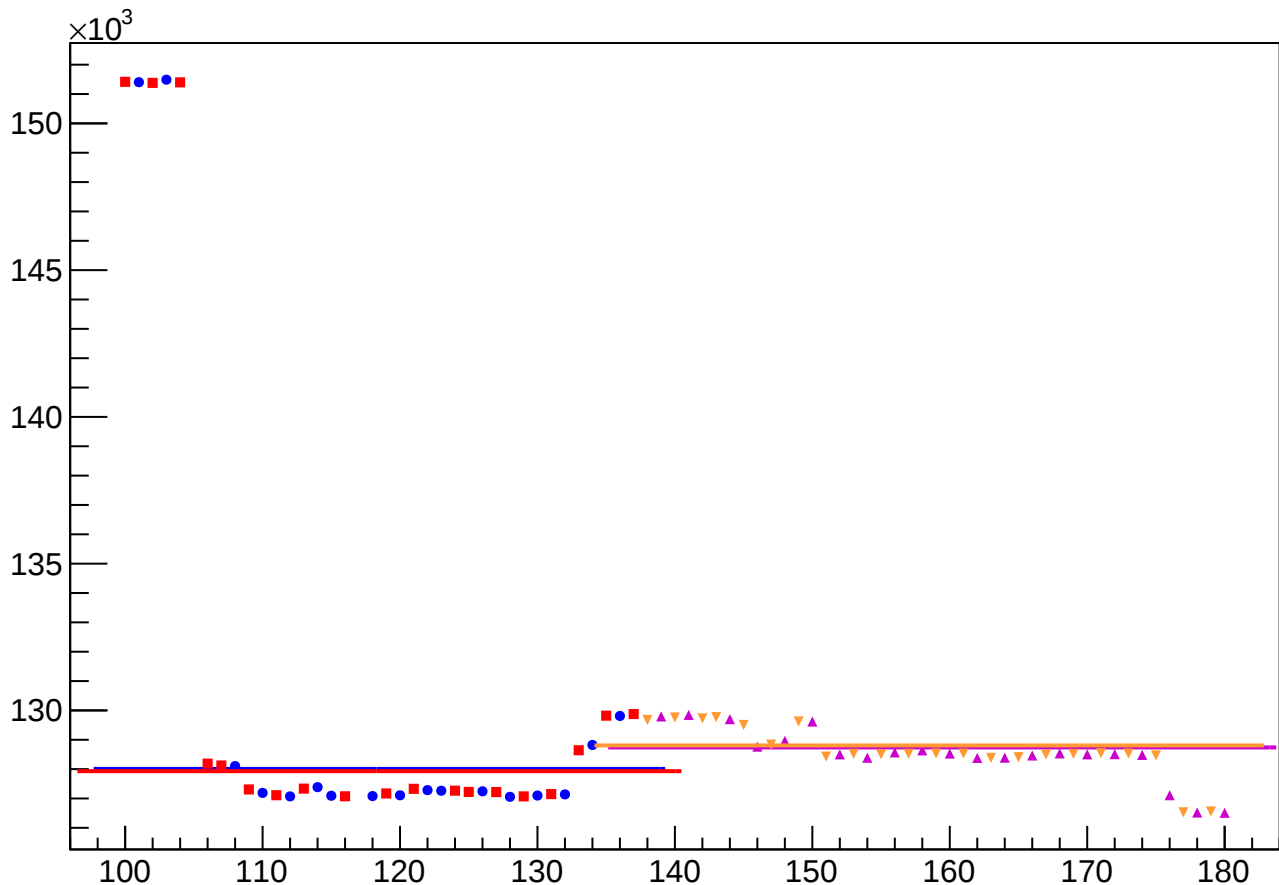
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 187.665+/-0.029 χ^2/NDF : 3061235.9/37

Out: 181.360+/-0.028 χ^2/NDF : 3270309.1/40

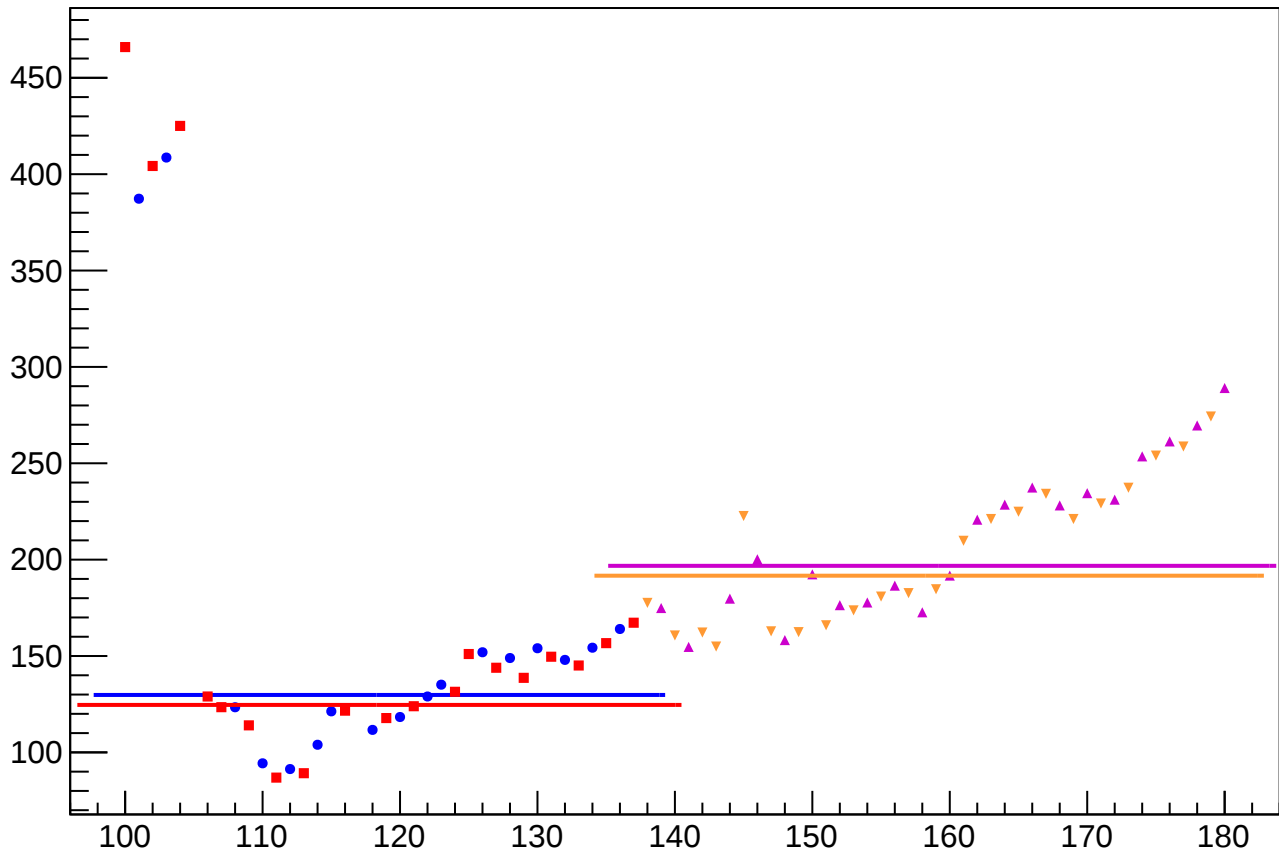
All: 184.368+/-0.020 χ^2/NDF : 6356477.5/78

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128807.249 $\pm$ 0.048 χ^2 /NDF: 248216361.6/21
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128738.910 $\pm$ 0.050 χ^2 /NDF: 258510241.3/20
 Left: 128774.282 $\pm$ 0.035 χ^2 /NDF: 507705435.0/42
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/42
 In: 128404.285 $\pm$ 0.037 χ^2 /NDF: 4677418103.1/37
 Out: 128390.136 $\pm$ 0.035 χ^2 /NDF: 4175348138.3/42
 All: 128396.841 $\pm$ 0.025 χ^2 /NDF: 885284483.0/81

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2/NDF : 1485294.2/16

Left Out: 191.672 $\pm$ 0.034 χ^2/NDF :950503.7/21

Right Out: 124.625 $\pm$ 0.036 χ^2/NDF : 1531827.4/18

Left In: 196.793 $\pm$ 0.035 χ^2/NDF :967651.2/20

Left: 194.142 $\pm$ 0.024 χ^2/NDF : 1929147.7/42

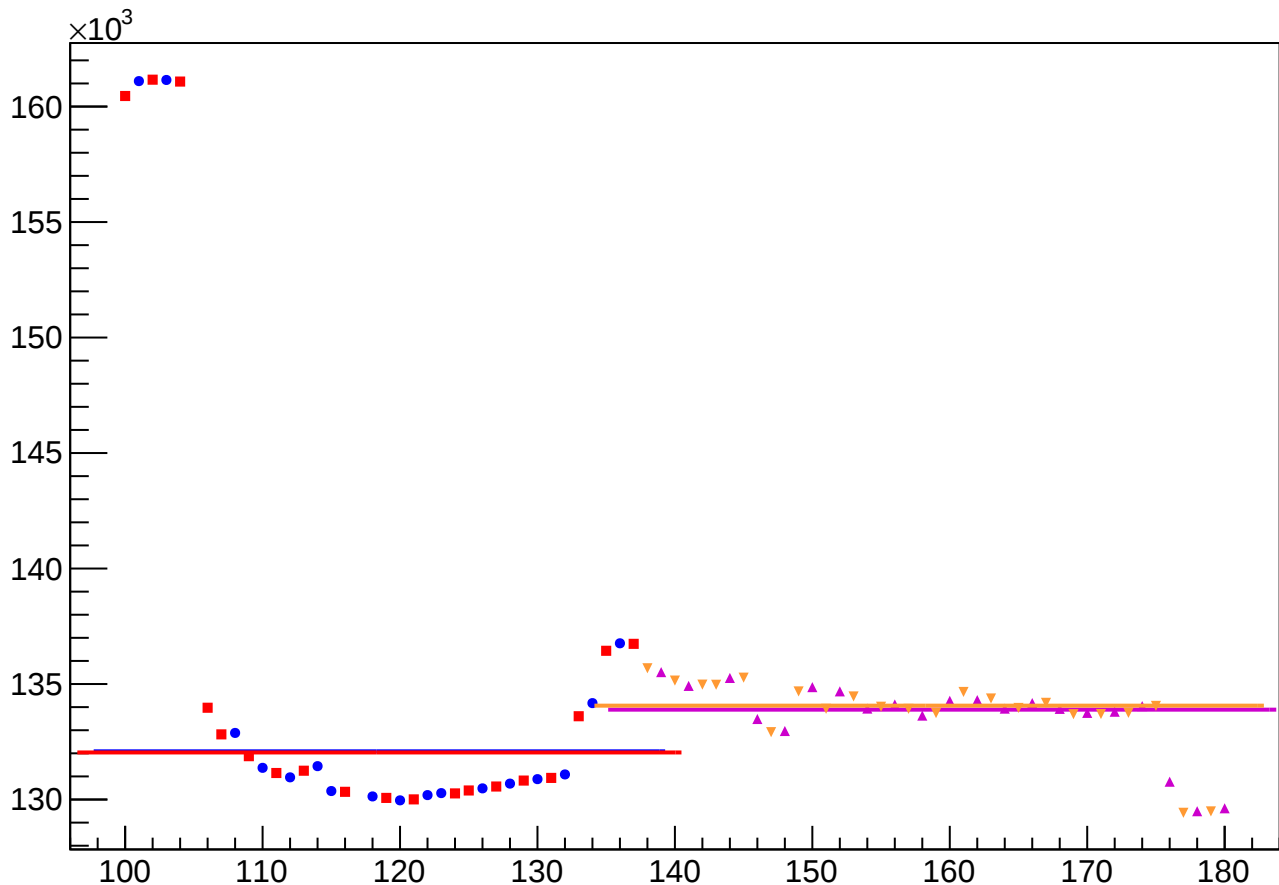
Right: 127.025 $\pm$ 0.026 χ^2/NDF : 3026904.3/35

In: 166.147 $\pm$ 0.026 χ^2/NDF :4115703.1/37

Out: 159.787 $\pm$ 0.025 χ^2/NDF :4339964.2/40

All: 162.801 $\pm$ 0.018 χ^2/NDF : 8487426.3/78

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2 /NDF: 6733230928.7/16

Left: 133979.850 $\pm$ 0.036

χ^2 /NDF: 1370427473.0/4

Right: 132060.364 $\pm$ 0.038

χ^2 /NDF: 12615754245.0/4

Left Out: 134063.737 $\pm$ 0.050

χ^2 /NDF: 665850203.6/21

Right Out: 132037.539 $\pm$ 0.053

χ^2 /NDF: 5882115872.9/18

In: 133076.128 $\pm$ 0.038

χ^2 /NDF: 7990298125.8/37

Out: 133108.754 $\pm$ 0.036

χ^2 /NDF: 7334559624.5/4

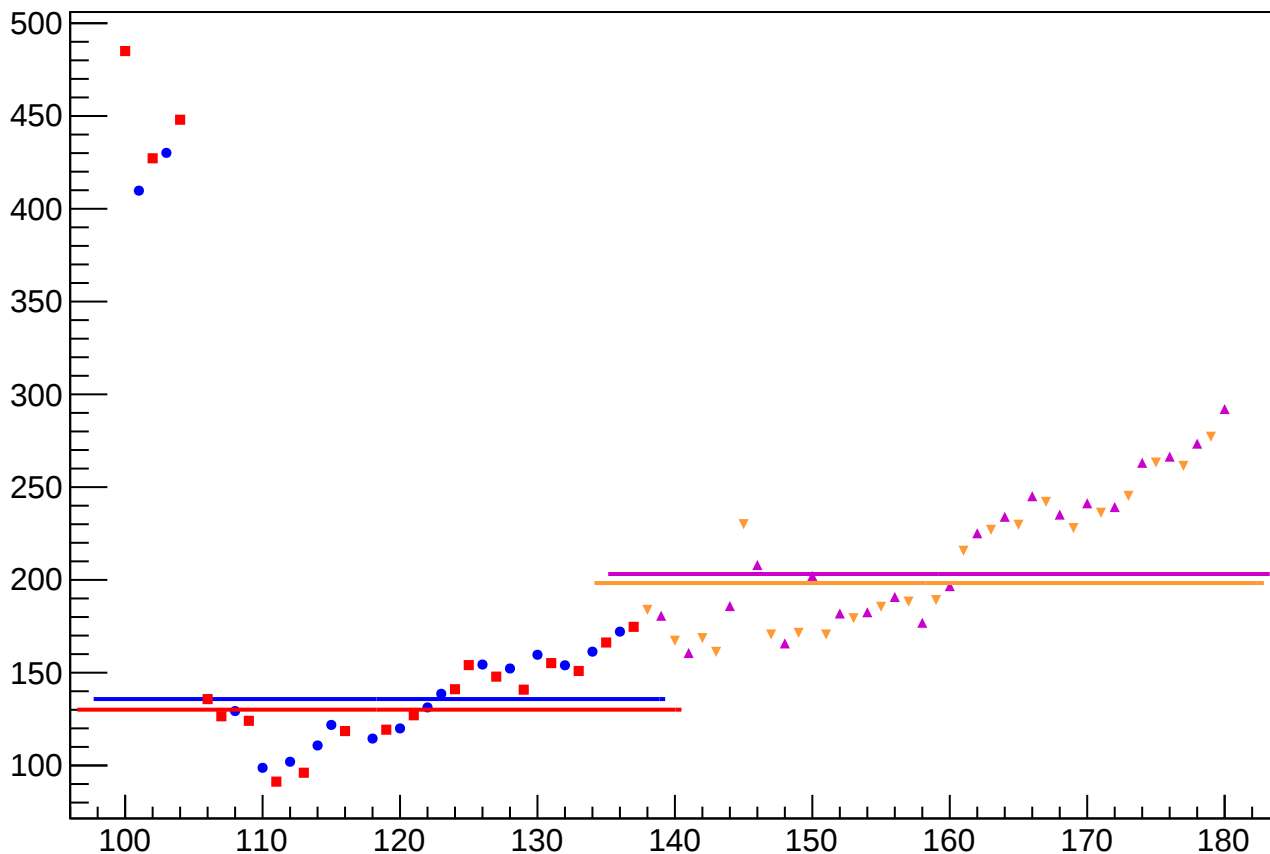
Left In: 133890.196 $\pm$ 0.051

χ^2 /NDF: 698659389.4/20

All: 133093.284 $\pm$ 0.026

χ^2 /NDF: 153252450.0/4

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 198.315 $\pm$ 0.035 χ^2/NDF : 887900.3/21

Right Out: 130.070 $\pm$ 0.037 χ^2/NDF : 1503997.6/18

Left In: 203.191 $\pm$ 0.036 χ^2/NDF : 917333.6/20

Left: 200.672 $\pm$ 0.025 χ^2/NDF : 1814577.1/42

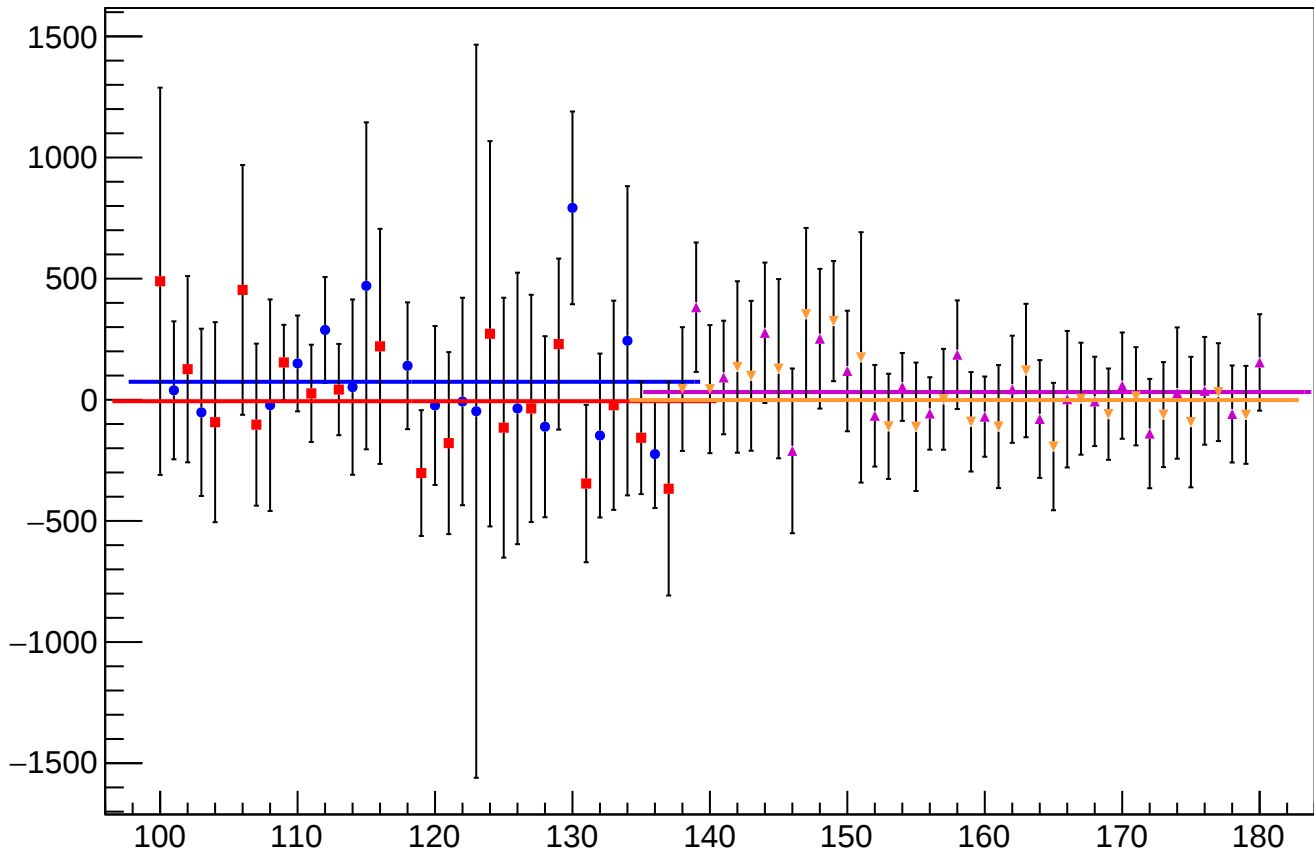
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 172.769 $\pm$ 0.027 χ^2/NDF : 3918976.4/37

Out: 166.150 $\pm$ 0.026 χ^2/NDF : 4176616.7/40

All: 169.288 $\pm$ 0.018 χ^2/NDF : 8127536.9/78

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 ± 79.018 $\chi^2/NDF: 7.7/16$

Left Out: -1.103 ± 52.423 $\chi^2/NDF: 5.2/21$

Right Out: -5.739 ± 70.069 $\chi^2/NDF: 7.1/18$

Left In: 32.033 ± 46.657 $\chi^2/NDF: 6.6/20$

Left: 17.387 ± 34.852 $\chi^2/NDF: 12.0/42$

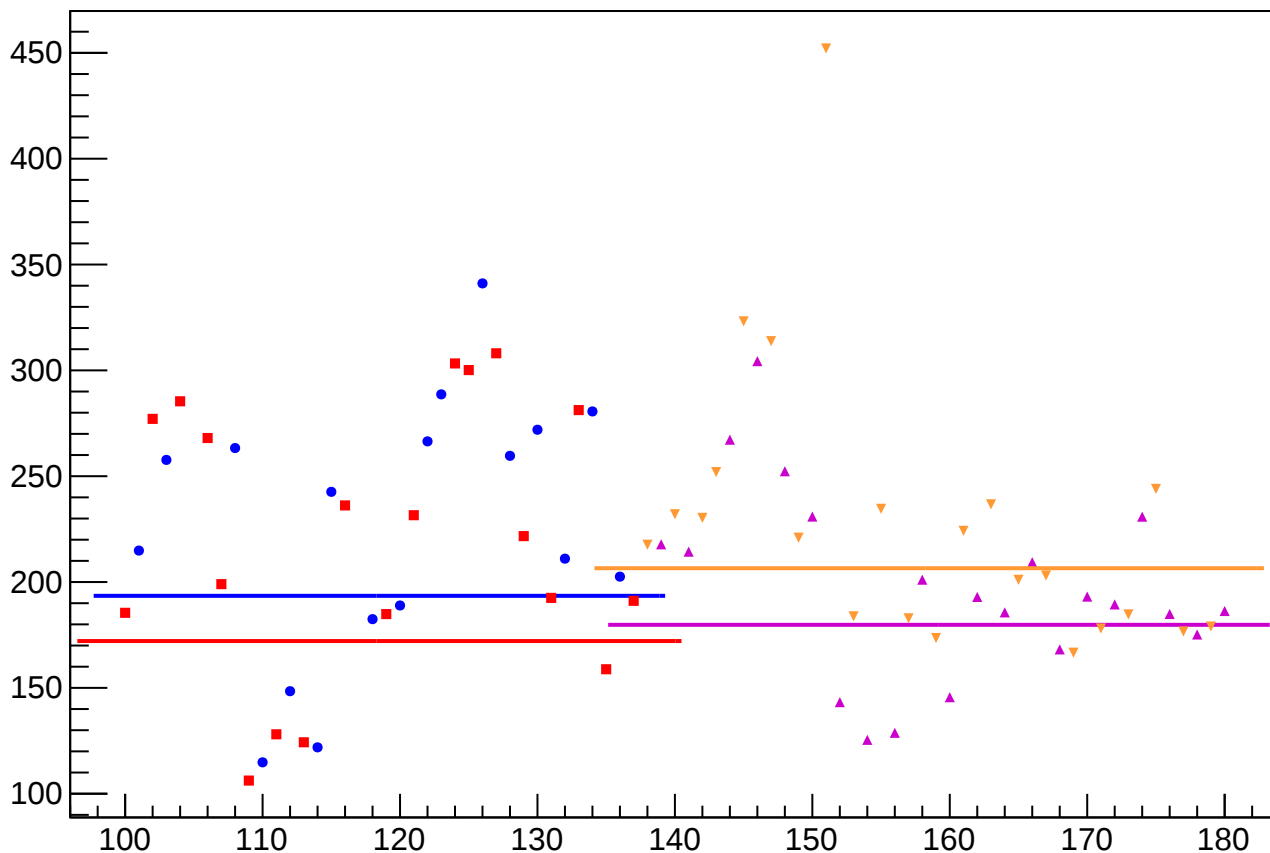
Right: 29.490 ± 52.426 $\chi^2/NDF: 15.4/35$

In: 42.958 ± 40.176 $\chi^2/NDF: 14.5/37$

Out: -2.767 ± 41.975 $\chi^2/NDF: 12.3/40$

All: 21.097 ± 29.024 $\chi^2/NDF: 27.4/78$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2/NDF : 1017195.7/16

Left Out: 206.528 $\pm$ 0.037 χ^2/NDF :1338619.7/21

Right Out: 172.122 $\pm$ 0.050 χ^2/NDF : 1579840.2/18

Left In: 179.785 $\pm$ 0.033 χ^2/NDF :1567410.7/20

Left: 191.605 $\pm$ 0.025 χ^2/NDF : 3196473.7/42

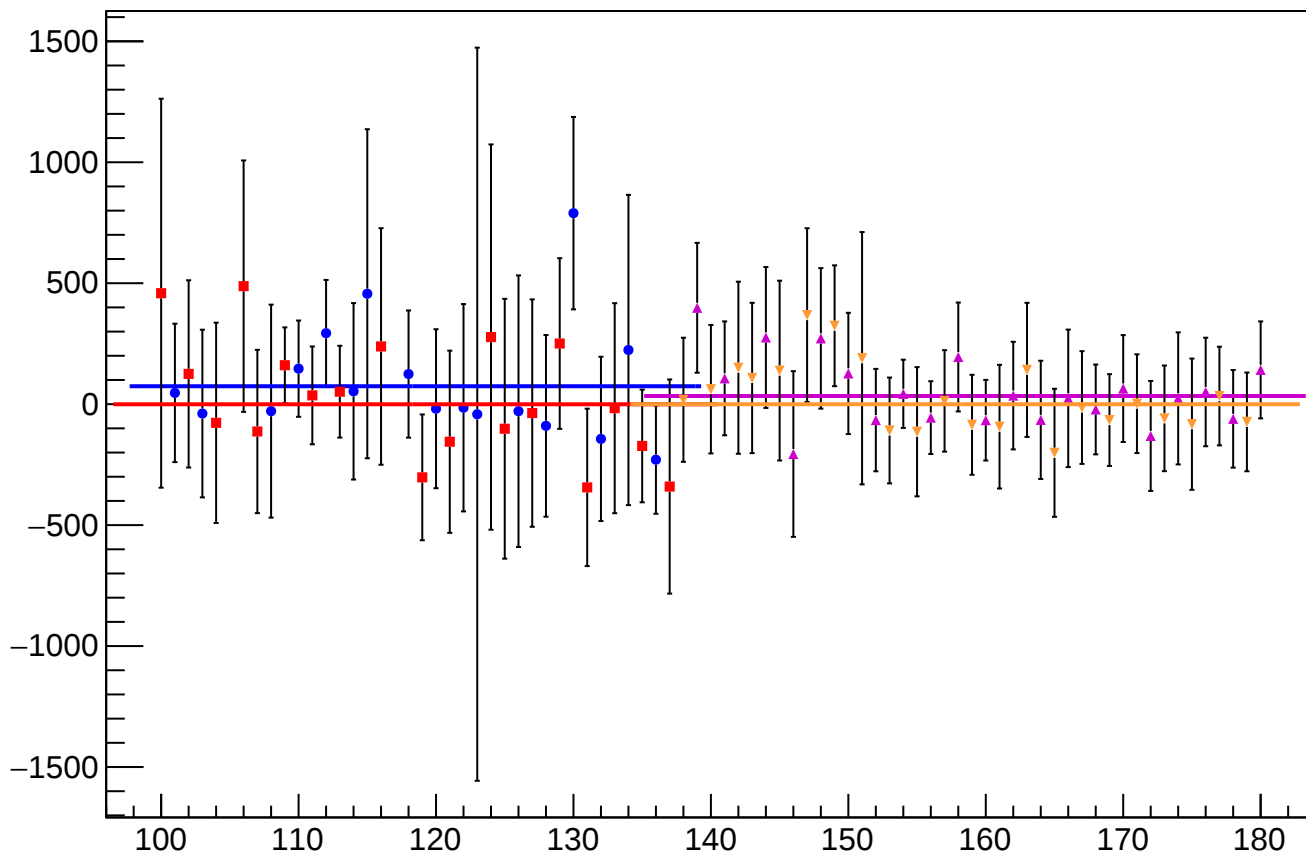
Right: 181.527 $\pm$ 0.037 χ^2/NDF : 2678891.2/35

In: 183.327 $\pm$ 0.028 χ^2/NDF :2629205.5/37

Out: 194.181 $\pm$ 0.030 χ^2/NDF :3227625.8/40

All: 188.516 $\pm$ 0.021 χ^2/NDF : 5926620.7/78

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: -0.372 $\pm$ 52.790 χ^2 /NDF: 5.4/21

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 33.738 $\pm$ 46.961 χ^2 /NDF: 6.7/20

Left: 18.670 $\pm$ 35.087 χ^2 /NDF: 12.3/42

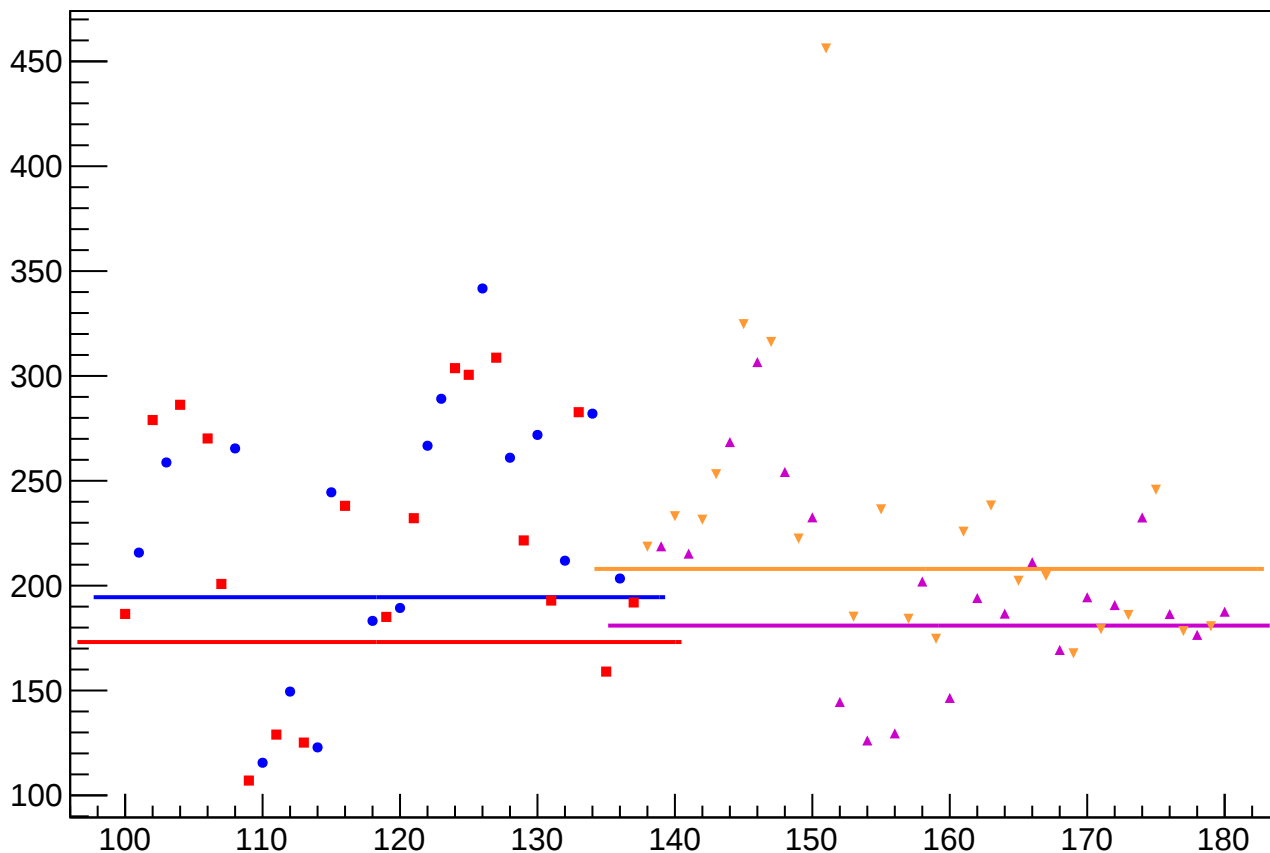
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 44.197 $\pm$ 40.421 χ^2 /NDF: 14.4/37

Out: -0.419 $\pm$ 42.243 χ^2 /NDF: 12.7/40

All: 22.872 $\pm$ 29.205 χ^2 /NDF: 27.7/78

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2 /NDF: 1008514.7/16

Left Out: 207.980 $\pm$ 0.037 χ^2 /NDF:1334288.5/21

Right Out: 173.111 $\pm$ 0.050 χ^2 /NDF: 1567374.3/18

Left In: 180.952 $\pm$ 0.033 χ^2 /NDF:1566828.2/20

Left: 192.892 $\pm$ 0.025 χ^2 /NDF: 3193791.7/42

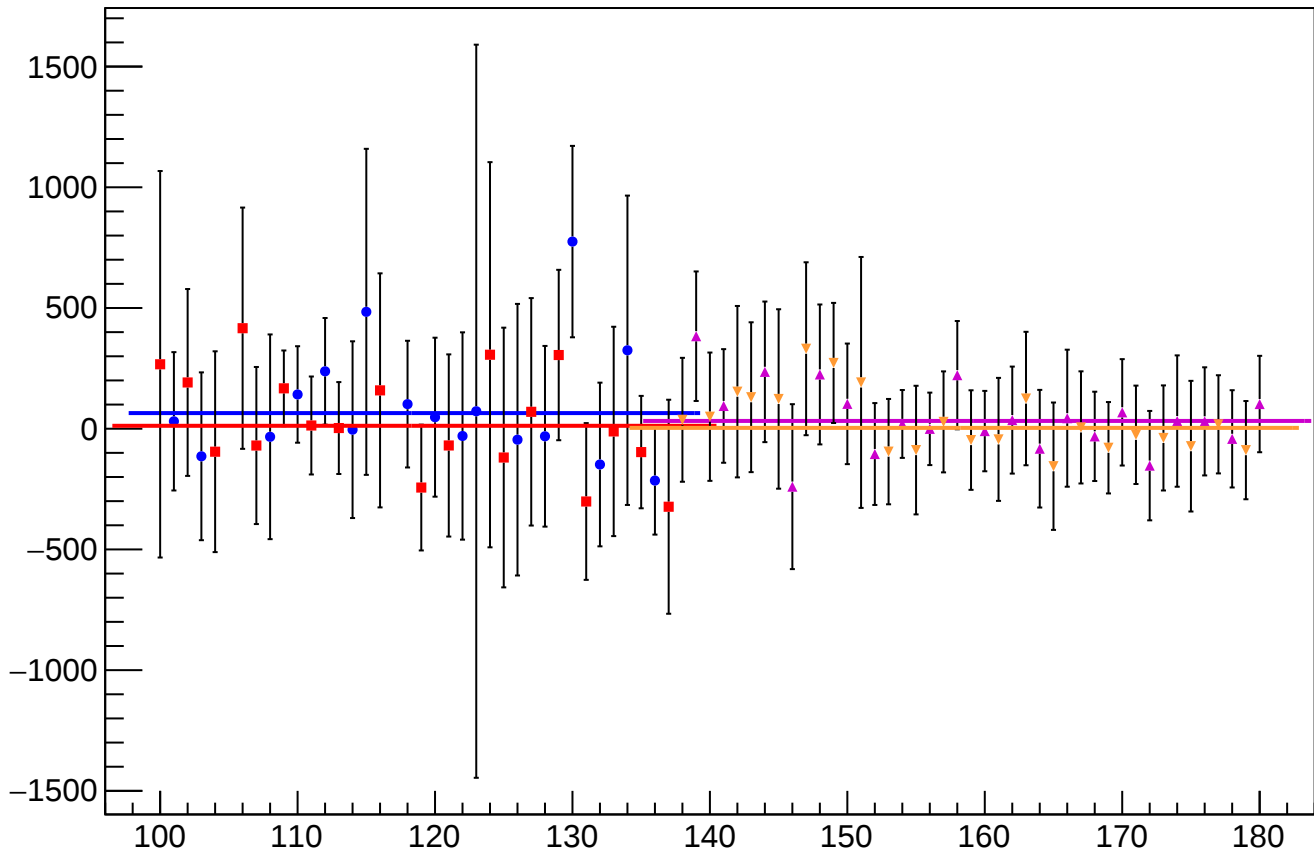
Right: 182.529 $\pm$ 0.037 χ^2 /NDF: 2657073.5/35

In: 184.462 $\pm$ 0.029 χ^2 /NDF:2618458.3/37

Out: 195.439 $\pm$ 0.030 χ^2 /NDF:3215499.3/40

All: 189.708 $\pm$ 0.021 χ^2 /NDF: 5904459.7/78

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 $\pm$ 79.399 χ^2/NDF : 7.0/16

Left Out: 3.449 $\pm$ 52.662 χ^2/NDF : 4.2/21

Right Out: 12.094 $\pm$ 70.361 χ^2/NDF : 5.8/18

Left In: 32.216 $\pm$ 46.839 χ^2/NDF : 6.0/20

Left: 19.510 $\pm$ 34.998 χ^2/NDF : 10.3/42

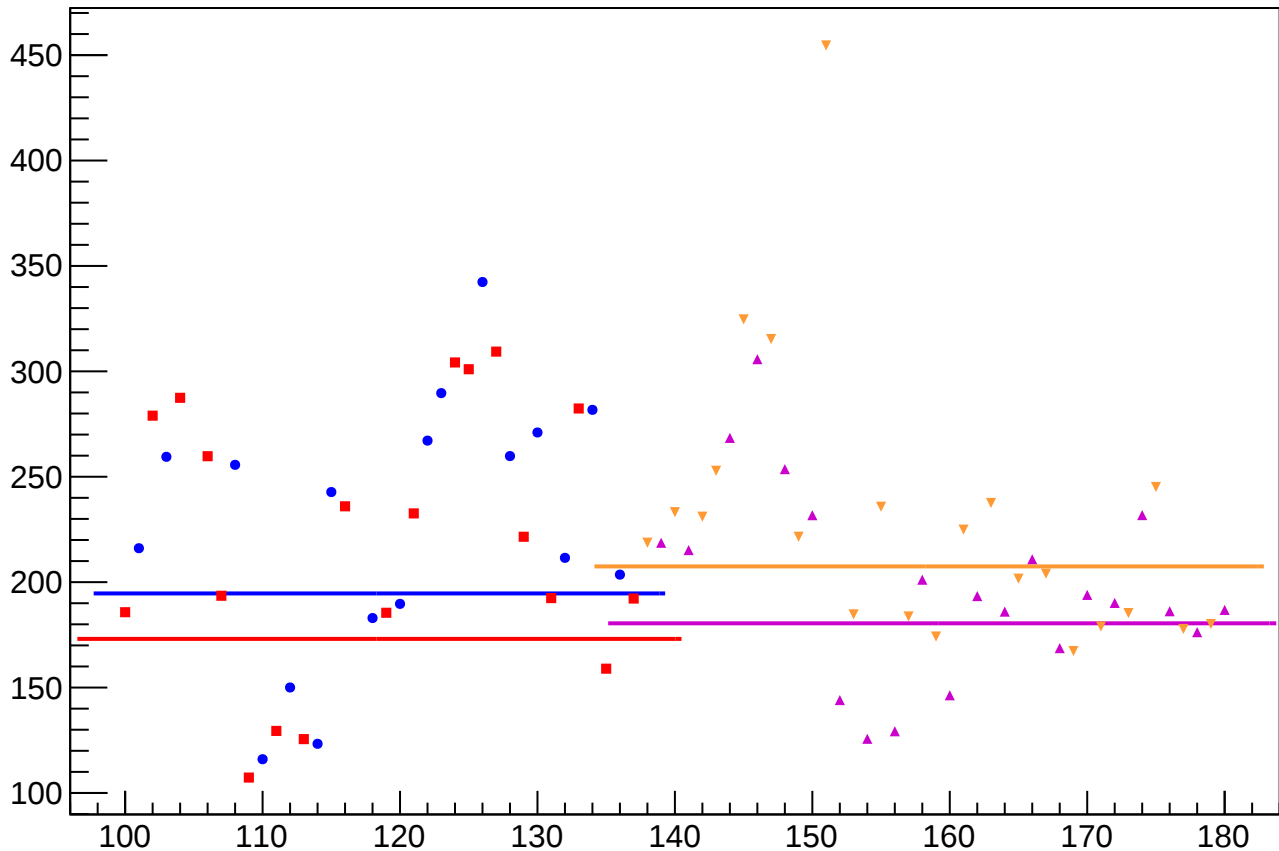
Right: 35.248 $\pm$ 52.659 χ^2/NDF : 13.1/35

In: 40.610 $\pm$ 40.342 χ^2/NDF : 13.1/37

Out: 6.553 $\pm$ 42.161 χ^2/NDF : 10.0/40

All: 24.332 $\pm$ 29.148 χ^2/NDF : 23.4/78

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 ± 0.056 $\chi^2/\text{NDF}: 986798.9/16$

Left Out: 207.468 ± 0.037 $\chi^2/\text{NDF}: 1336930.0/21$

Right Out: 173.089 ± 0.050 $\chi^2/\text{NDF}: 1544540.9/18$

Left In: 180.475 ± 0.033 $\chi^2/\text{NDF}: 1570076.6/20$

Left: 192.397 ± 0.025 $\chi^2/\text{NDF}: 3200371.7/42$

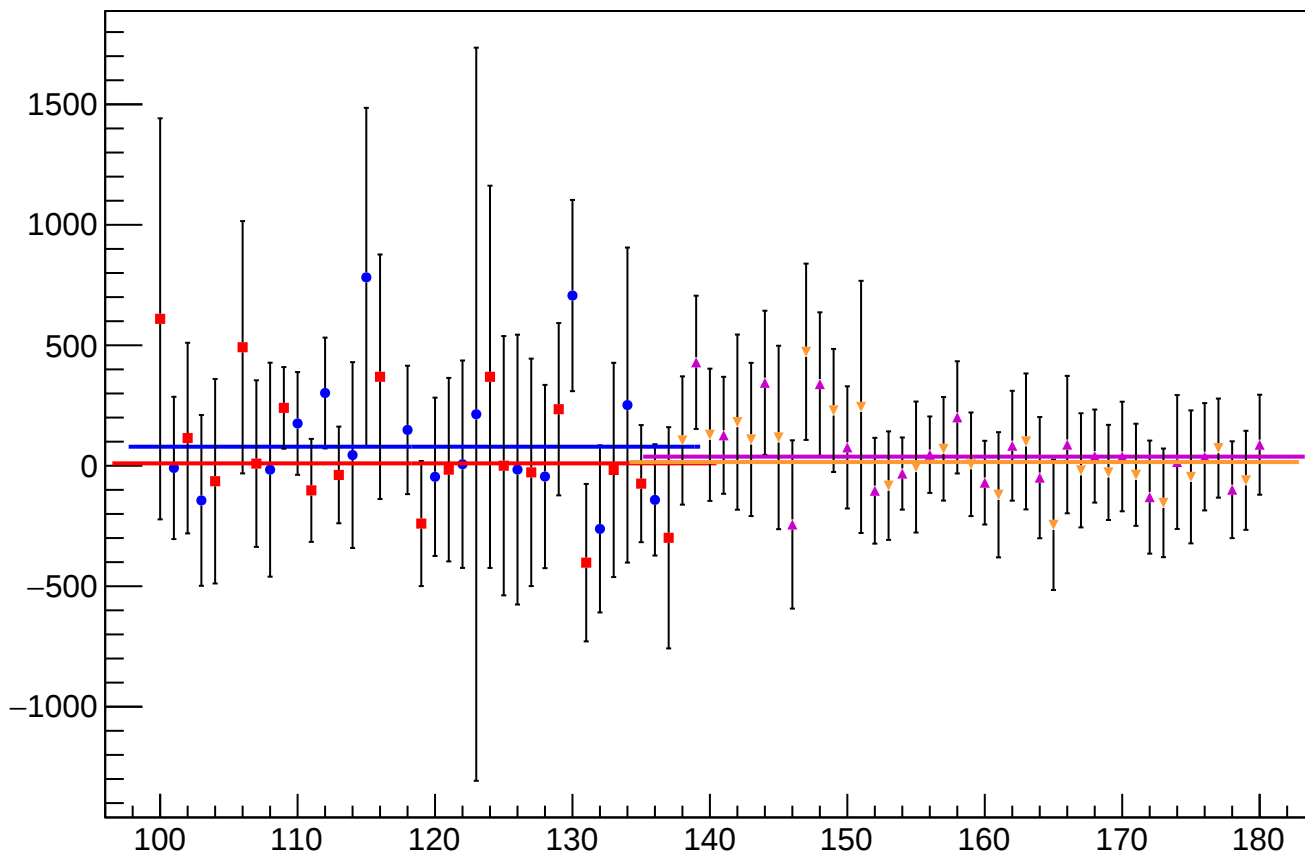
Right: 182.574 ± 0.037 $\chi^2/\text{NDF}: 2613964.4/35$

In: 184.135 ± 0.029 $\chi^2/\text{NDF}: 2604173.2/37$

Out: 195.124 ± 0.030 $\chi^2/\text{NDF}: 3187512.8/40$

All: 189.388 ± 0.021 $\chi^2/\text{NDF}: 5862614.2/78$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 15.415+/-54.100 χ^2/NDF : 5.6/21

Right Out: 9.982+/-73.310 χ^2/NDF : 7.9/18

Left In: 37.881+/-48.473 χ^2/NDF : 7.6/20

Left: 27.877+/-36.102 χ^2/NDF : 13.4/42

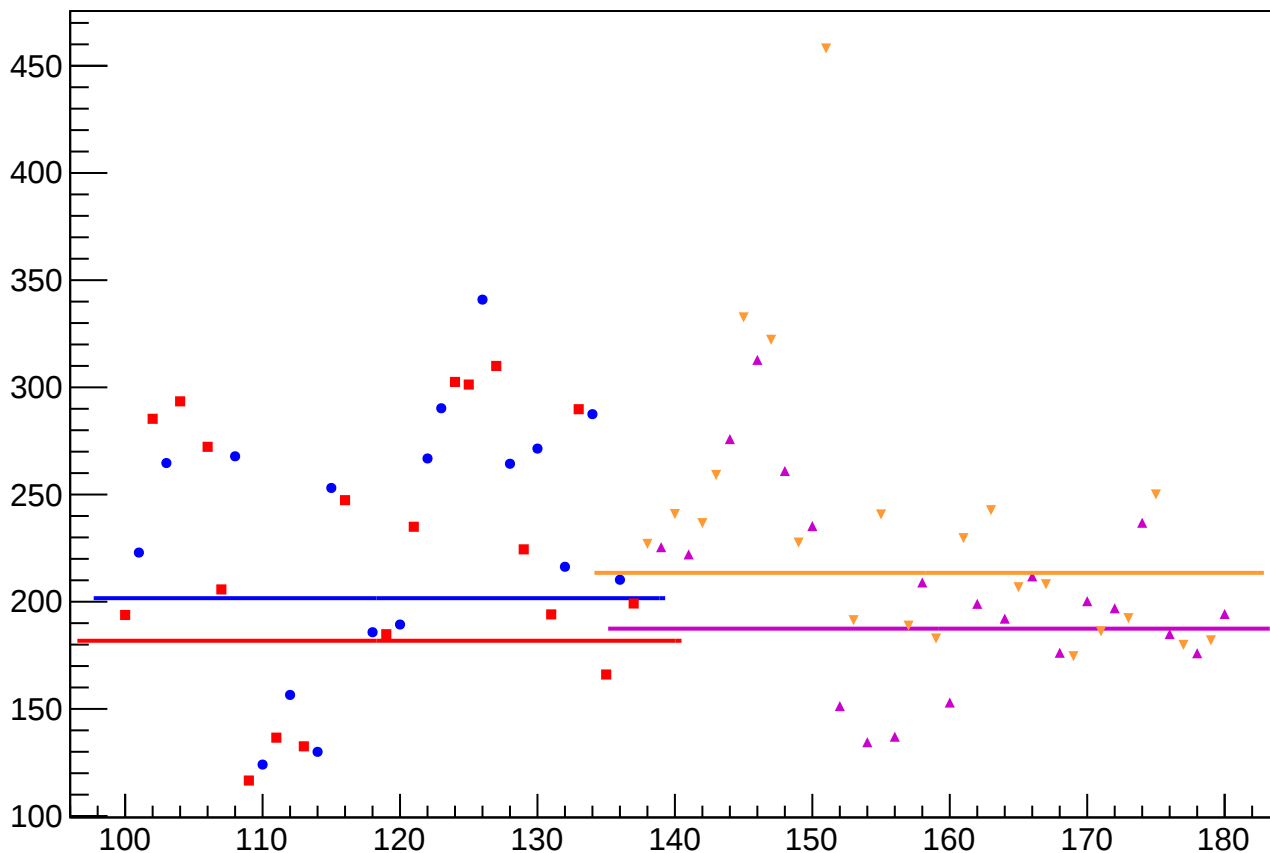
Right: 40.751+/-54.616 χ^2/NDF : 15.8/35

In: 48.586+/-41.711 χ^2/NDF : 15.3/37

Out: 13.500+/-43.530 χ^2/NDF : 13.5/40

All: 31.792+/-30.117 χ^2/NDF : 29.2/78

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 213.478+/-0.038 χ^2/NDF :1291598.2/21

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 187.441+/-0.034 χ^2/NDF :1415260.5/20

Left: 199.035+/-0.026 χ^2/NDF : 2963832.7/42

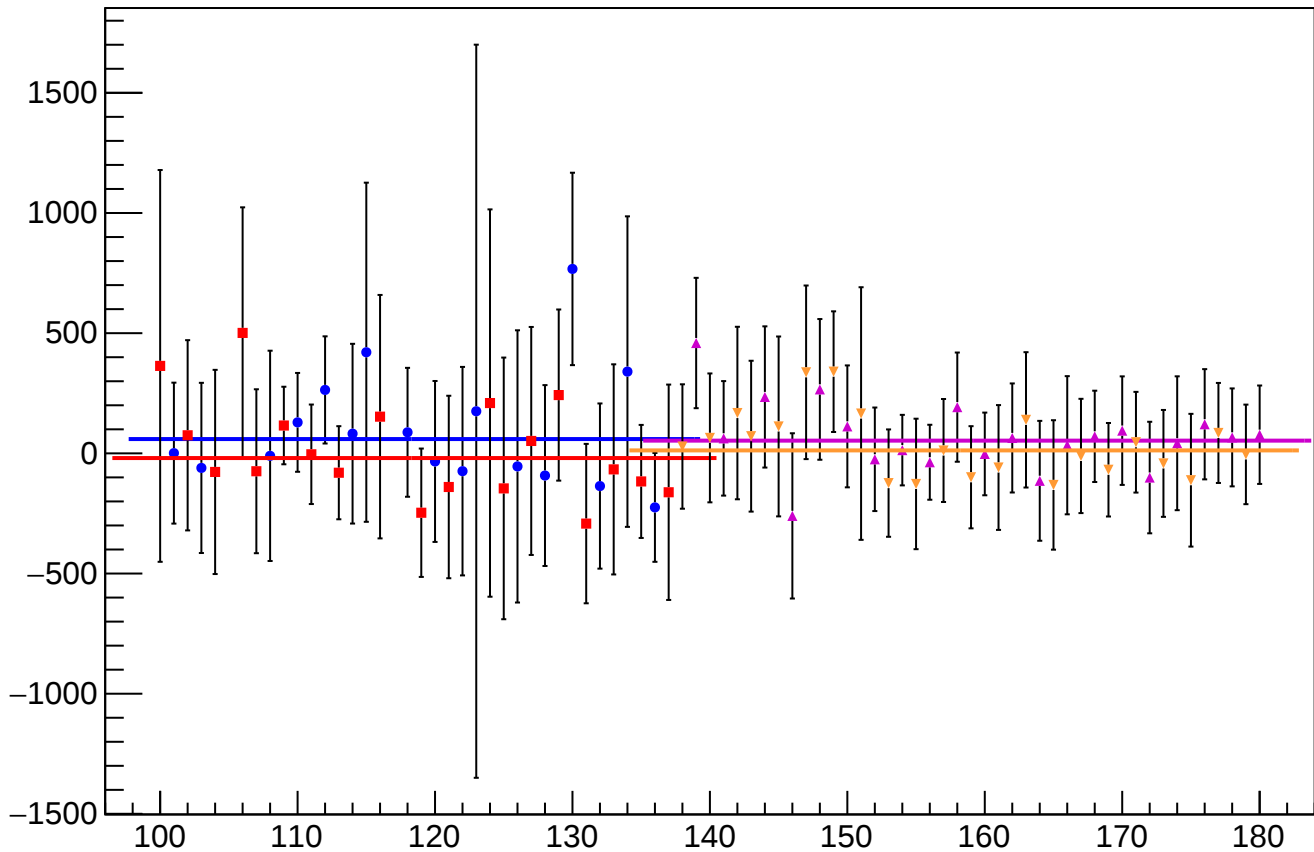
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 191.130+/-0.029 χ^2/NDF :2343070.8/37

Out: 202.308+/-0.031 χ^2/NDF :2910864.2/40

All: 196.481+/-0.021 χ^2/NDF : 5322695.1/78

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 12.312 $\pm$ 53.720 χ^2 /NDF:5.0/21

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 52.949 $\pm$ 47.991 χ^2 /NDF:6.1/20

Left: 34.912 $\pm$ 35.790 χ^2 /NDF: 11.4/42

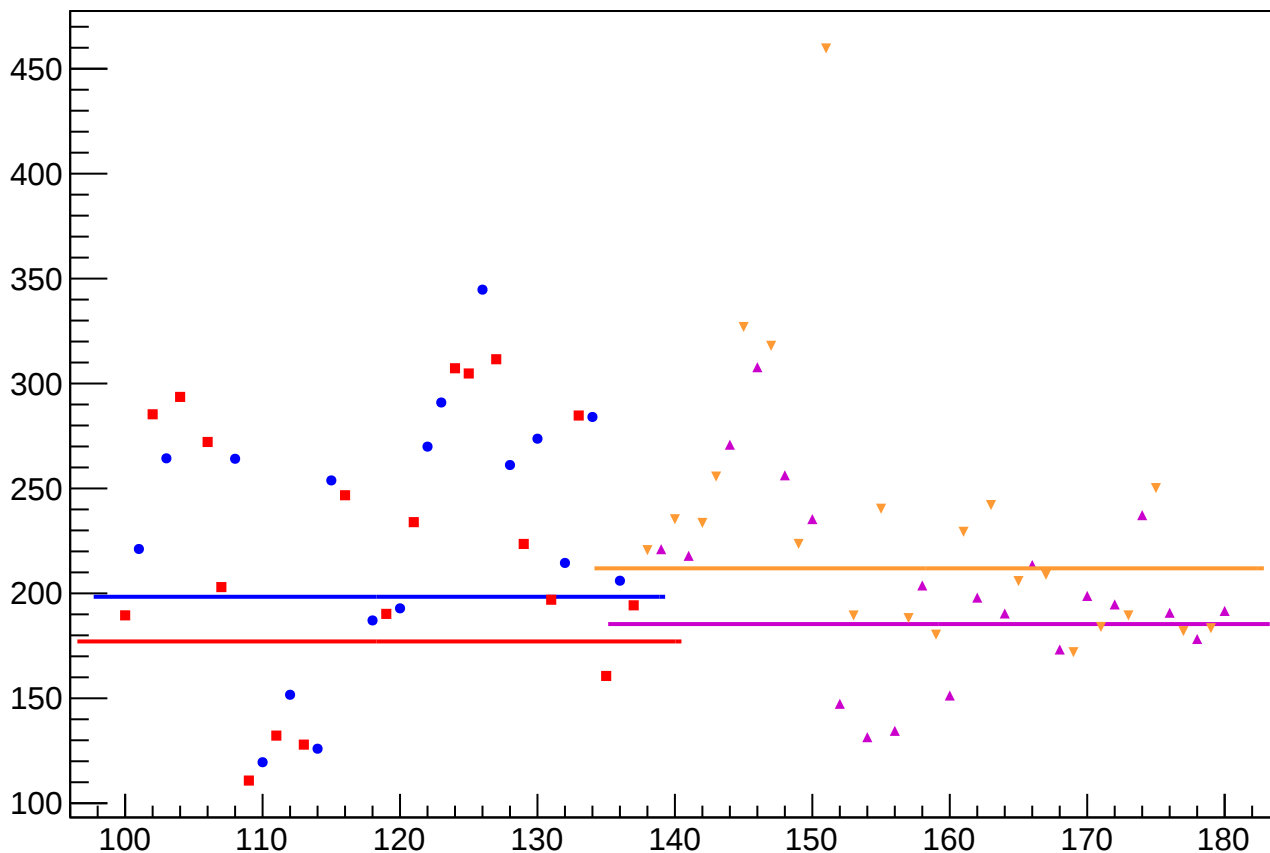
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 54.656 $\pm$ 41.263 χ^2 /NDF:13.1/37

Out: 0.894 $\pm$ 43.028 χ^2 /NDF:9.9/40

All: 28.900 $\pm$ 29.782 χ^2 /NDF: 23.8/78

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378 $\pm$ 0.057 χ^2 /NDF: 963672.6/16

Left Out: 211.935 $\pm$ 0.038 χ^2 /NDF:1275887.9/21

Right Out: 177.096 $\pm$ 0.051 χ^2 /NDF: 1524763.6/18

Left In: 185.375 $\pm$ 0.034 χ^2 /NDF:1445863.5/20

Left: 197.164 $\pm$ 0.025 χ^2 /NDF: 2993649.3/42

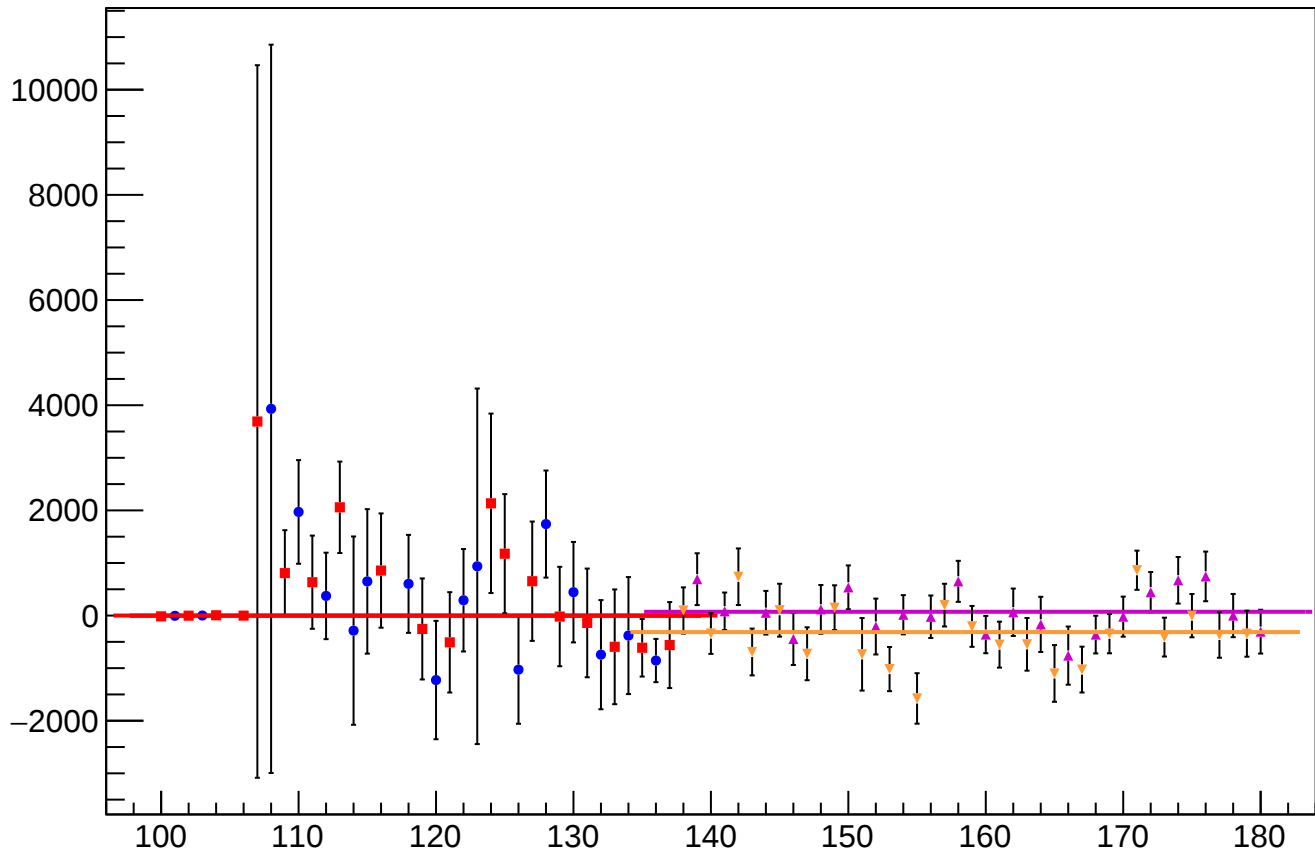
Right: 186.495 $\pm$ 0.038 χ^2 /NDF: 2565896.1/35

In: 188.766 $\pm$ 0.029 χ^2 /NDF:2447819.3/37

Out: 199.447 $\pm$ 0.030 χ^2 /NDF:3102190.2/40

All: 193.883 $\pm$ 0.021 χ^2 /NDF: 5614209.6/78

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -313.821 ± 93.386 χ^2/NDF : 35.7/21

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 72.175 ± 91.974 χ^2/NDF : 17.6/20

Left: -117.884 ± 65.529 χ^2/NDF : 62.0/42

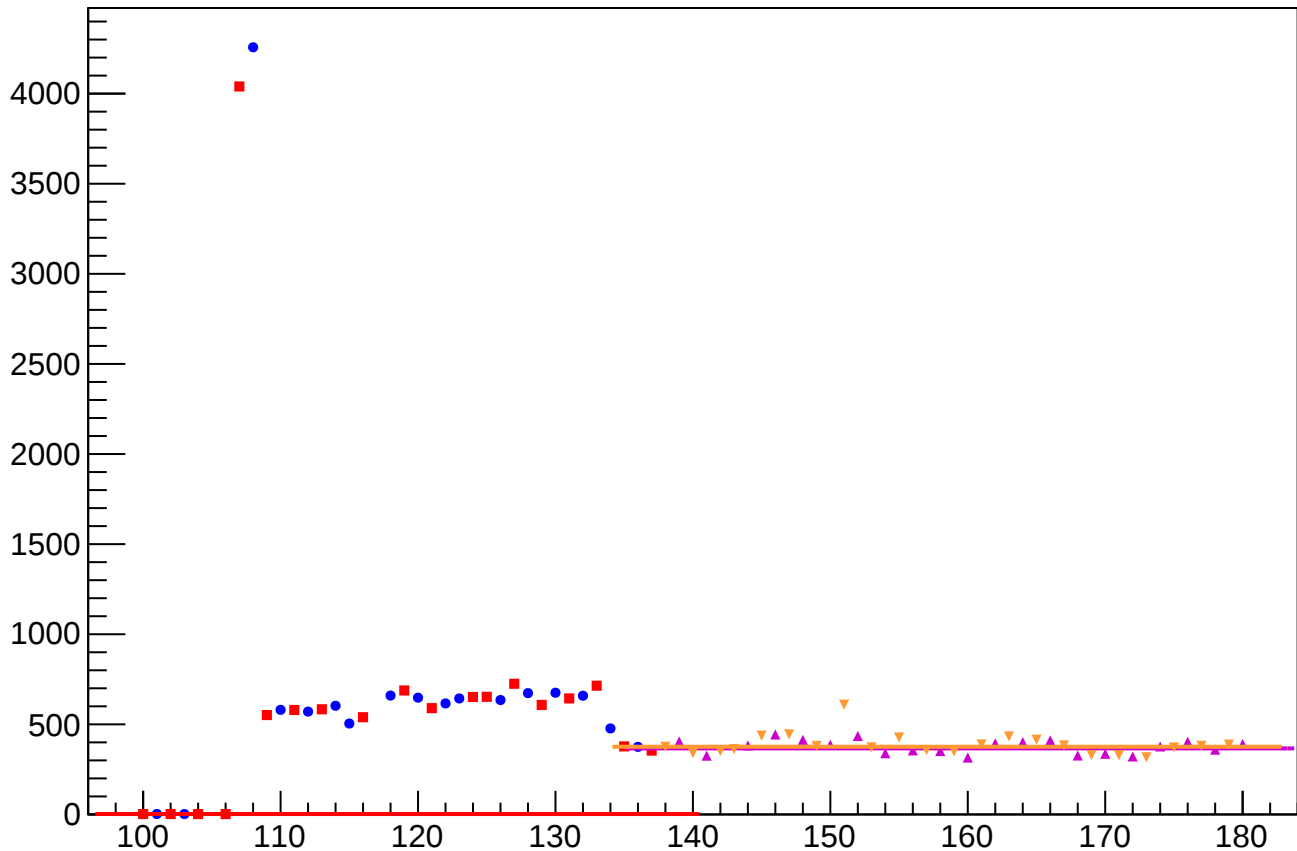
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.485 ± 2.251 χ^2/NDF : 35.2/37

Out: 0.566 ± 2.111 χ^2/NDF : 66.3/40

All: -0.394 ± 1.540 χ^2/NDF : 102.0/78

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 375.862+/-0.066 χ^2/NDF : 507159.4/21

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 366.524+/-0.065 χ^2/NDF : 318625.7/20

Left: 371.122+/-0.046 χ^2/NDF : 835937.2/42

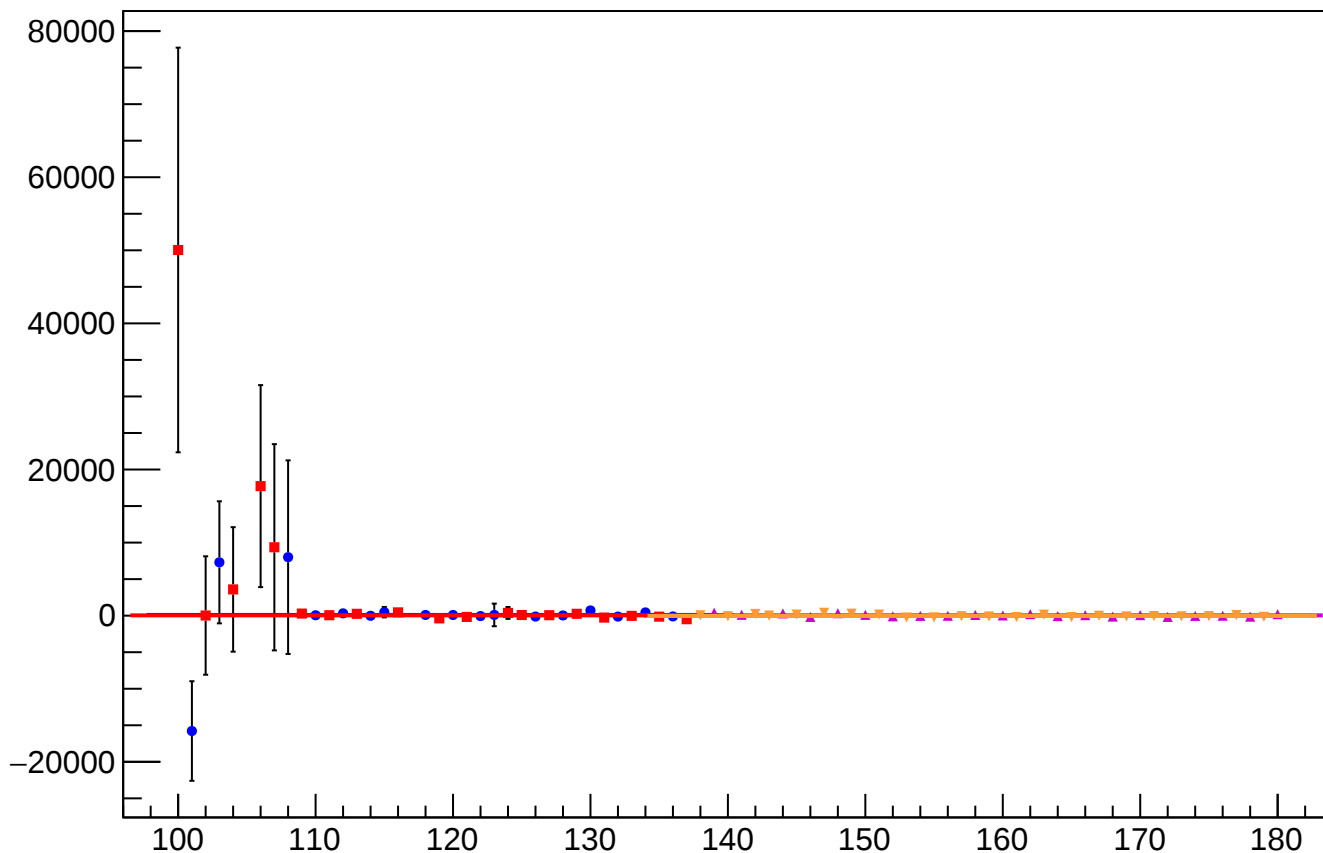
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.675+/-0.002 χ^2/NDF : 42484828.5/37

Out: 2.627+/-0.001 χ^2/NDF : 43618040.8/40

All: 2.650+/-0.001 χ^2/NDF : 86103337.4/78

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -40.378+/-54.698 χ^2/NDF : 7.0/21

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 41.464+/-50.219 χ^2/NDF : 8.3/20

Left: 4.030+/-36.992 χ^2/NDF : 16.5/42

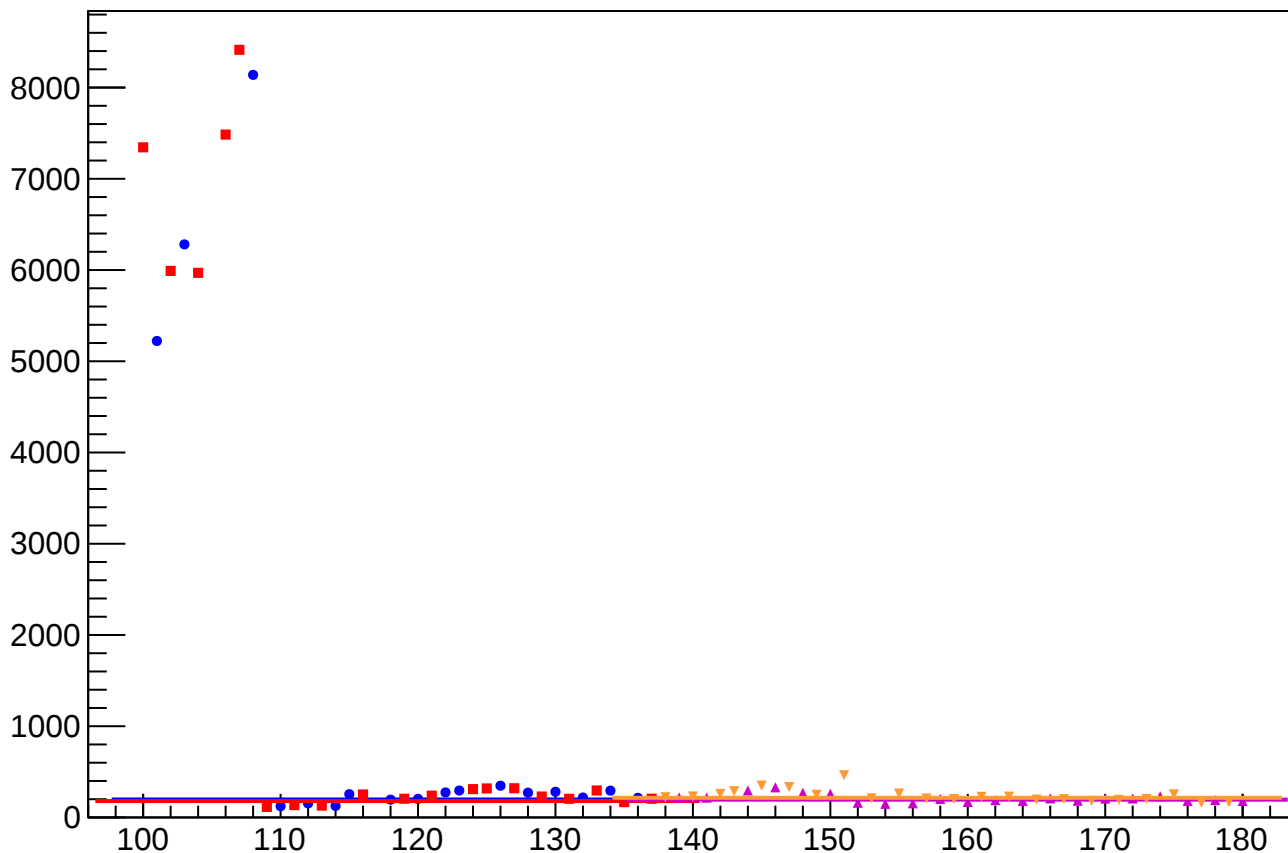
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 54.844+/-43.952 χ^2/NDF : 20.4/37

Out: -15.962+/-45.917 χ^2/NDF : 21.6/40

All: 20.988+/-31.751 χ^2/NDF : 43.3/78

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086 $\pm$ 0.064 χ^2 /NDF: 3693614.0/16

Left Out: 215.255 $\pm$ 0.039 χ^2 /NDF: 1511279.6/21

Right Out: 179.949 $\pm$ 0.060 χ^2 /NDF: 4321173.8/18

Left In: 195.244 $\pm$ 0.036 χ^2 /NDF: 1137549.5/20

Left: 204.397 $\pm$ 0.026 χ^2 /NDF: 2794077.8/42

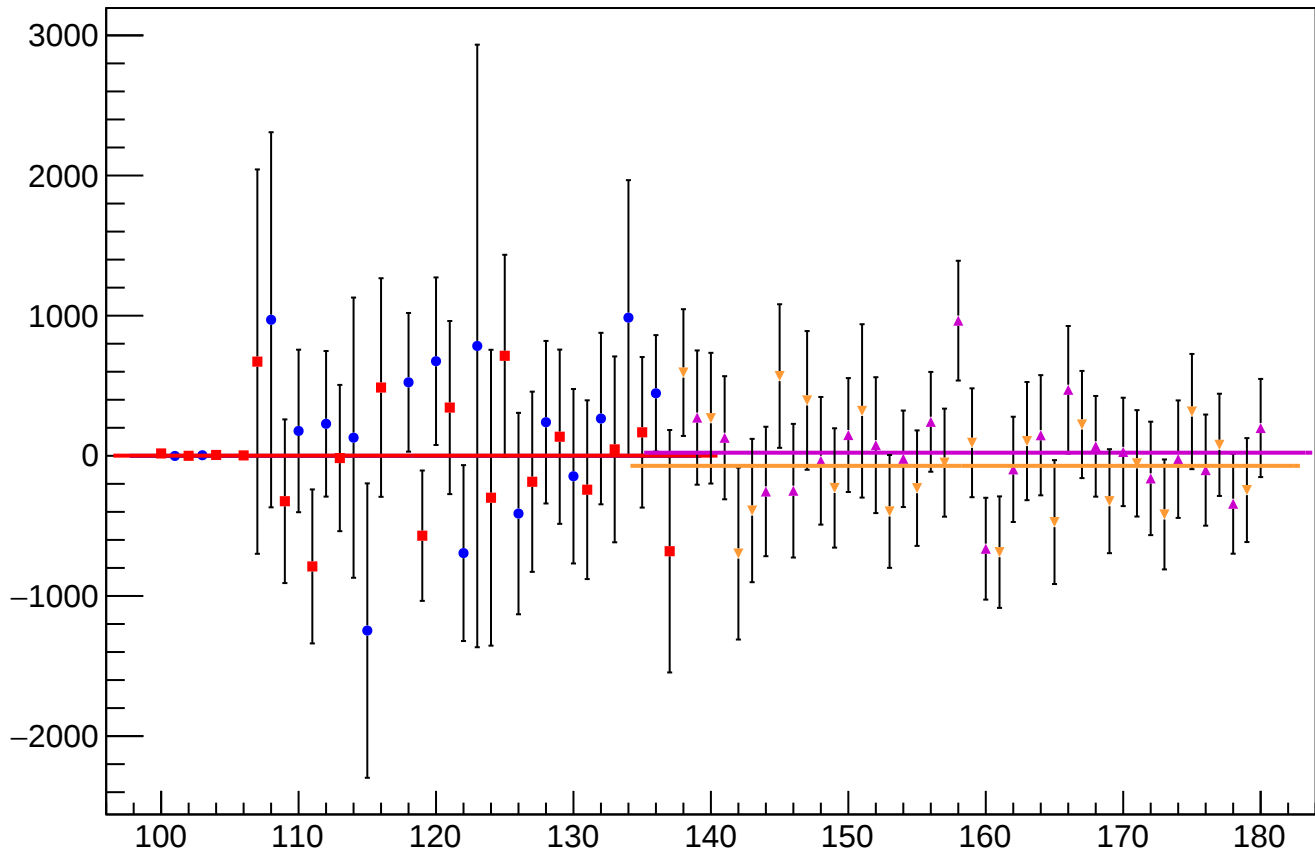
Right: 187.896 $\pm$ 0.044 χ^2 /NDF: 8052936.0/35

In: 195.675 $\pm$ 0.031 χ^2 /NDF: 4831792.7/37

Out: 204.829 $\pm$ 0.032 χ^2 /NDF: 6078519.2/40

All: 200.052 $\pm$ 0.022 χ^2 /NDF: 10951794.0/78

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -71.451 ± 90.269 χ^2/NDF : 14.6/21

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 22.277 ± 88.010 χ^2/NDF : 12.7/20

Left: -23.399 ± 63.016 χ^2/NDF : 27.9/42

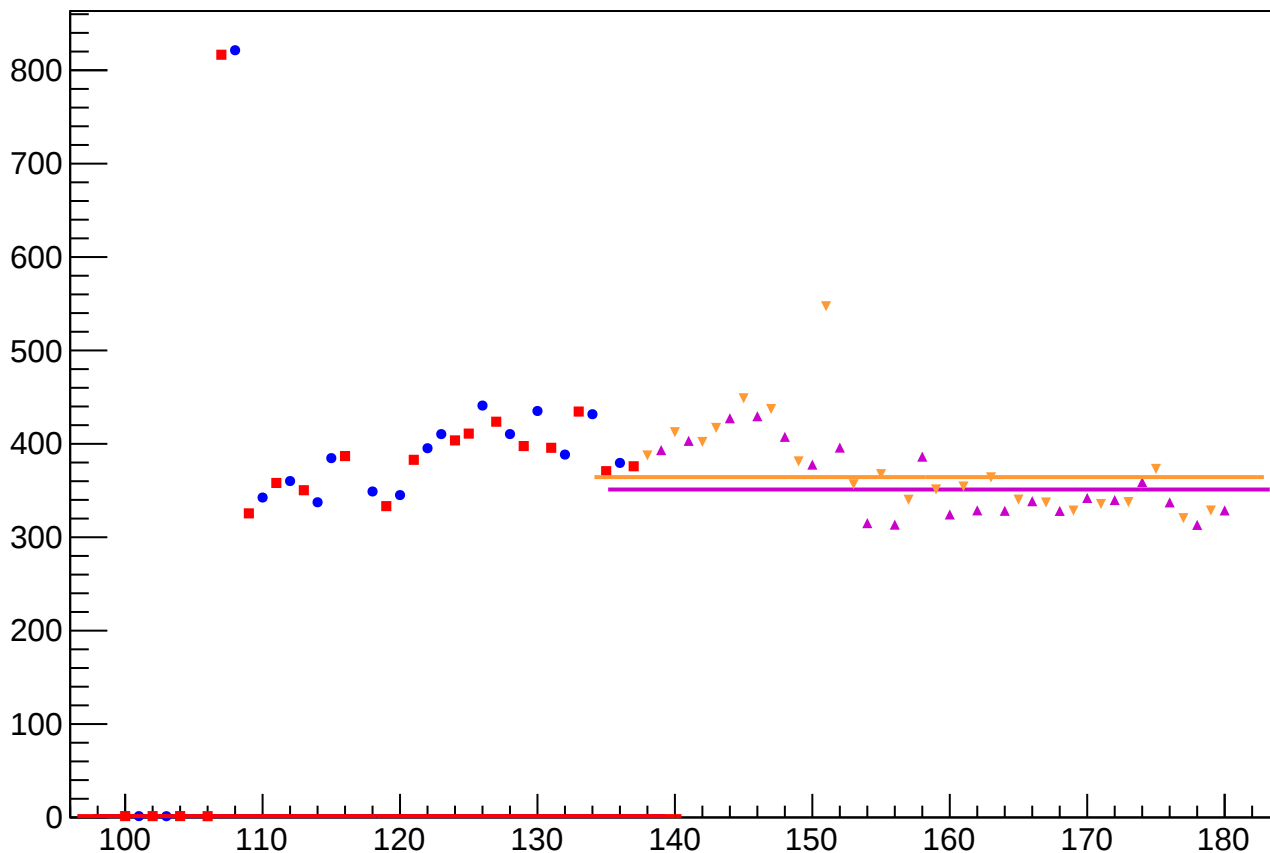
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.129 ± 1.736 χ^2/NDF : 22.5/37

Out: 1.300 ± 1.622 χ^2/NDF : 24.9/40

All: 0.634 ± 1.185 χ^2/NDF : 47.8/78

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453 $\pm$ 0.001 χ^2/NDF : 10957986.8/16

Left Out: 364.385 $\pm$ 0.064 χ^2/NDF : 447333.6/21

Right Out: 1.451 $\pm$ 0.001 χ^2/NDF : 10880737.7/18

Left In: 351.103 $\pm$ 0.062 χ^2/NDF : 336240.5/20

Left: 357.576 $\pm$ 0.045 χ^2/NDF : 805771.4/42

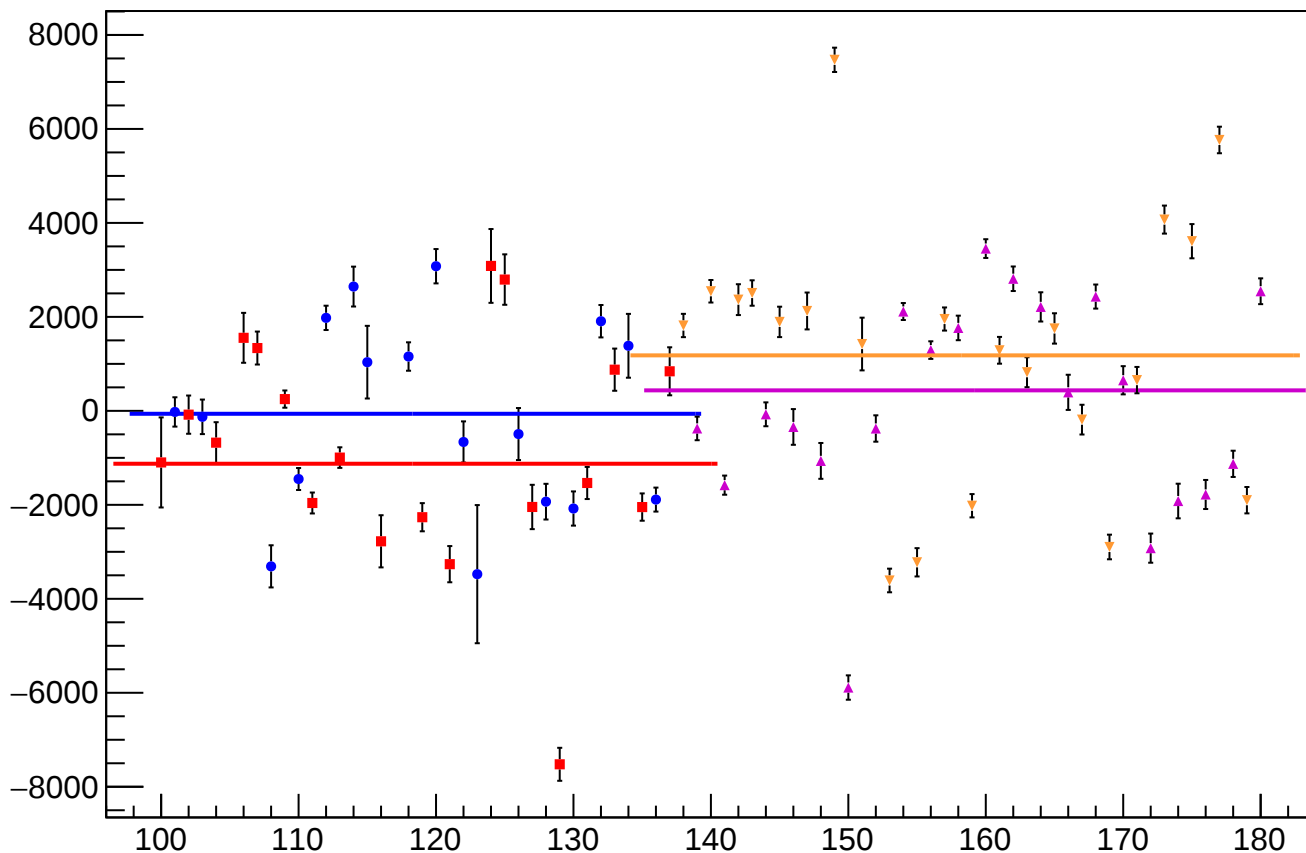
Right: 1.452 $\pm$ 0.001 χ^2/NDF : 21838725.6/35

In: 1.589 $\pm$ 0.001 χ^2/NDF : 42848998.9/37

Out: 1.568 $\pm$ 0.001 χ^2/NDF : 43647567.3/40

All: 1.578 $\pm$ 0.001 χ^2/NDF : 86496717.0/78

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 1181.081 ± 61.617 $\chi^2/\text{NDF}: 2222.1/21$

Right Out: -1125.437 ± 78.370 $\chi^2/\text{NDF}: 671.2/18$

Left In: 436.195 ± 56.930 $\chi^2/\text{NDF}: 1573.3/20$

Left: 779.231 ± 41.815 $\chi^2/\text{NDF}: 3874.2/42$

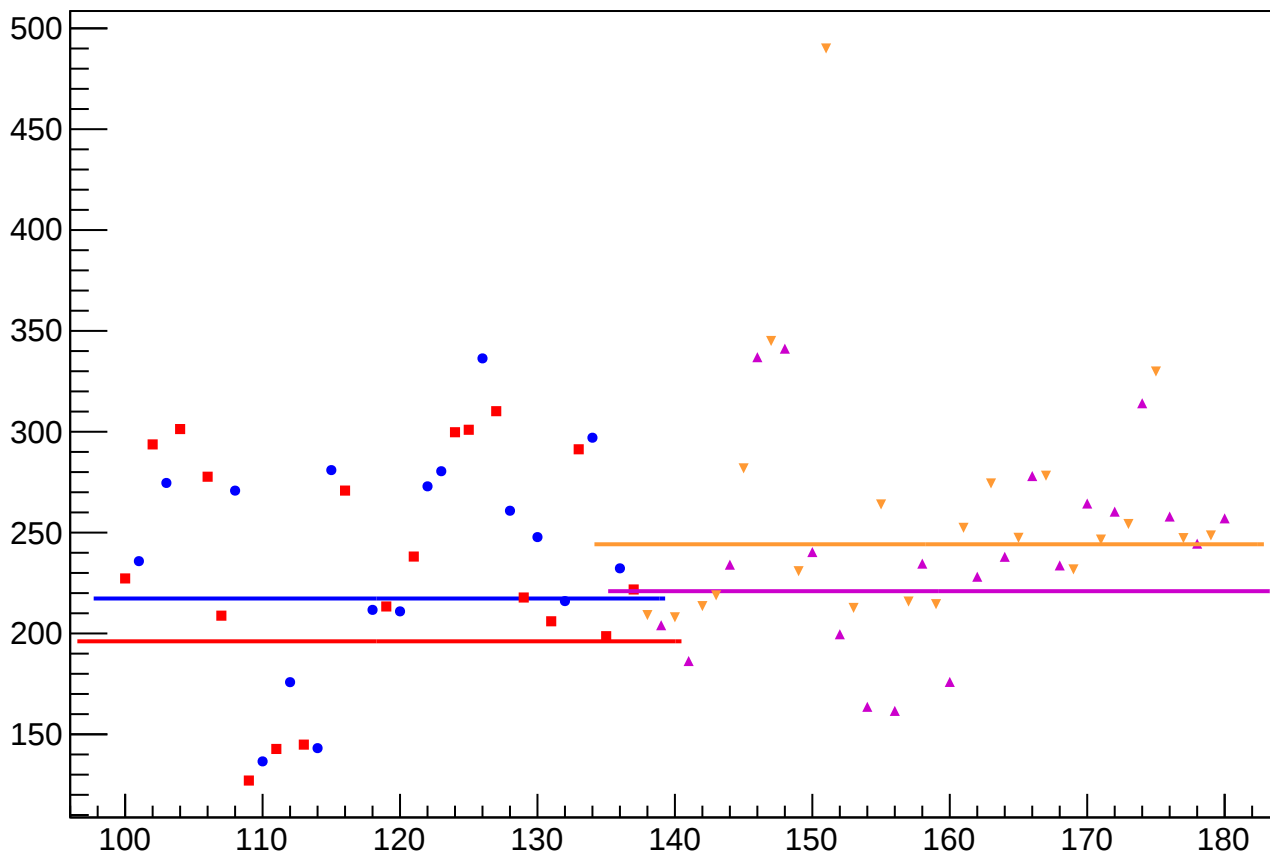
Right: -651.694 ± 58.355 $\chi^2/\text{NDF}: 1187.1/35$

In: 287.793 ± 47.707 $\chi^2/\text{NDF}: 2030.0/37$

Out: 299.944 ± 48.438 $\chi^2/\text{NDF}: 3428.6/40$

All: 293.776 ± 33.989 $\chi^2/\text{NDF}: 5458.7/78$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 244.214 $\pm$ 0.044 χ^2 /NDF: 925526.4/21

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 220.961 $\pm$ 0.040 χ^2 /NDF: 1327617.7/20

Left: 231.669 $\pm$ 0.030 χ^2 /NDF: 2406811.3/42

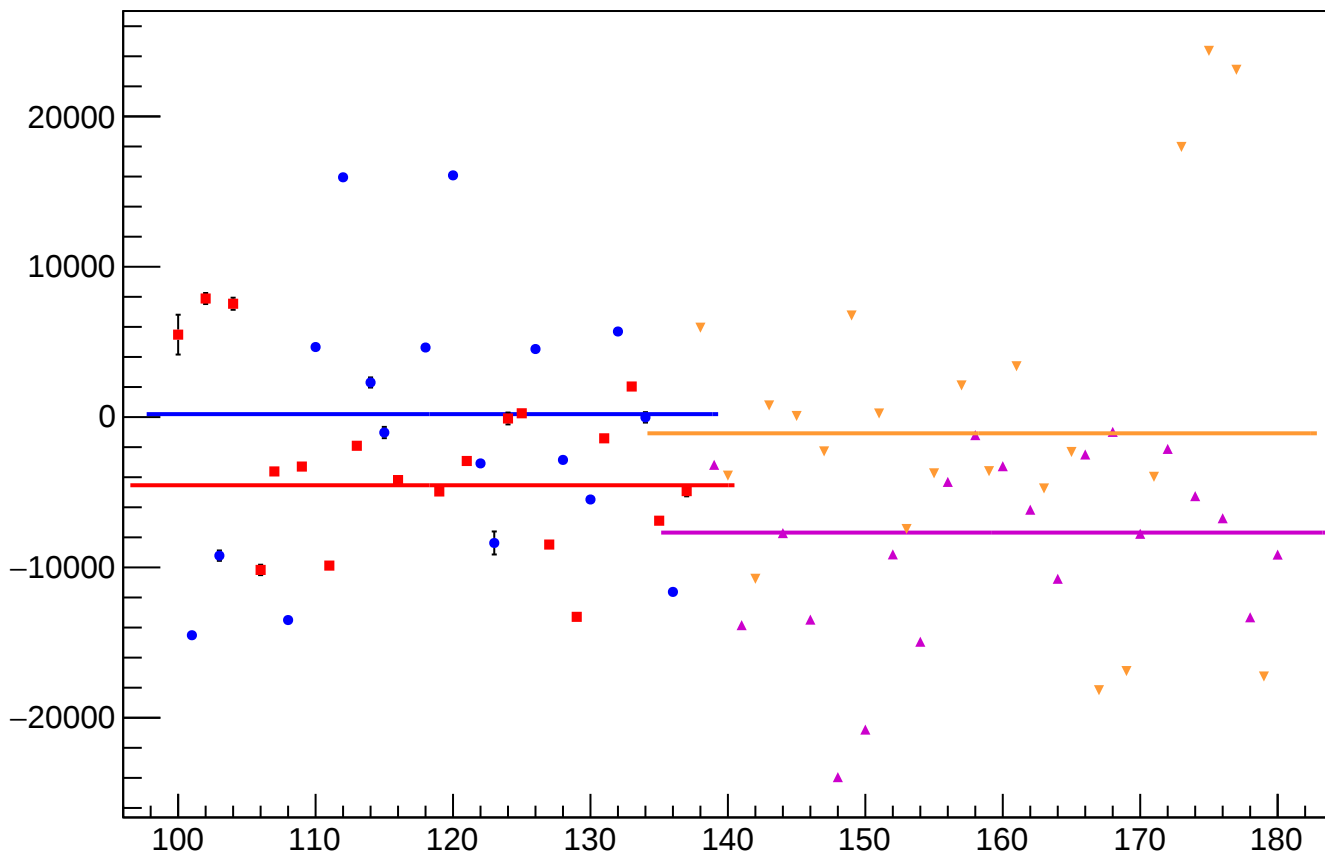
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 219.879 $\pm$ 0.034 χ^2 /NDF: 1982762.4/37

Out: 225.836 $\pm$ 0.034 χ^2 /NDF: 2582018.6/40

All: 222.812 $\pm$ 0.024 χ^2 /NDF: 4580131.4/78

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1079.039 ± 43.777 $\chi^2/\text{NDF}: 56246.0/21$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7683.382 ± 45.082 $\chi^2/\text{NDF}: 17766.3/20$

Left: -4284.236 ± 31.406 $\chi^2/\text{NDF}: 85058.1/42$

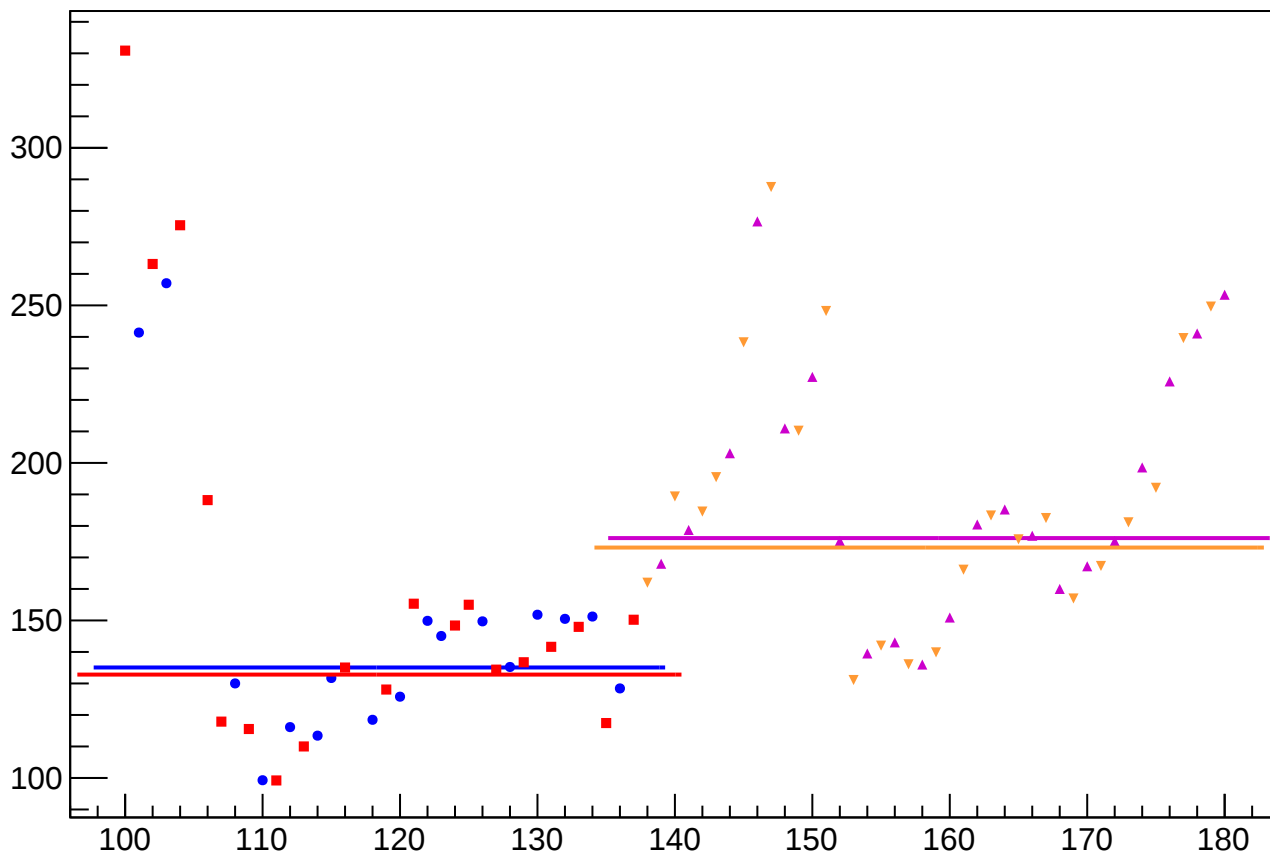
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4502.626 ± 34.814 $\chi^2/\text{NDF}: 60757.7/37$

Out: -2497.336 ± 33.612 $\chi^2/\text{NDF}: 66280.3/40$

All: -3464.745 ± 24.181 $\chi^2/\text{NDF}: 128755.2/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 173.137+/-0.031 χ^2/NDF :1332023.5/21

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 176.141+/-0.032 χ^2/NDF :1145624.0/20

Left: 174.595+/-0.022 χ^2/NDF : 2482217.6/42

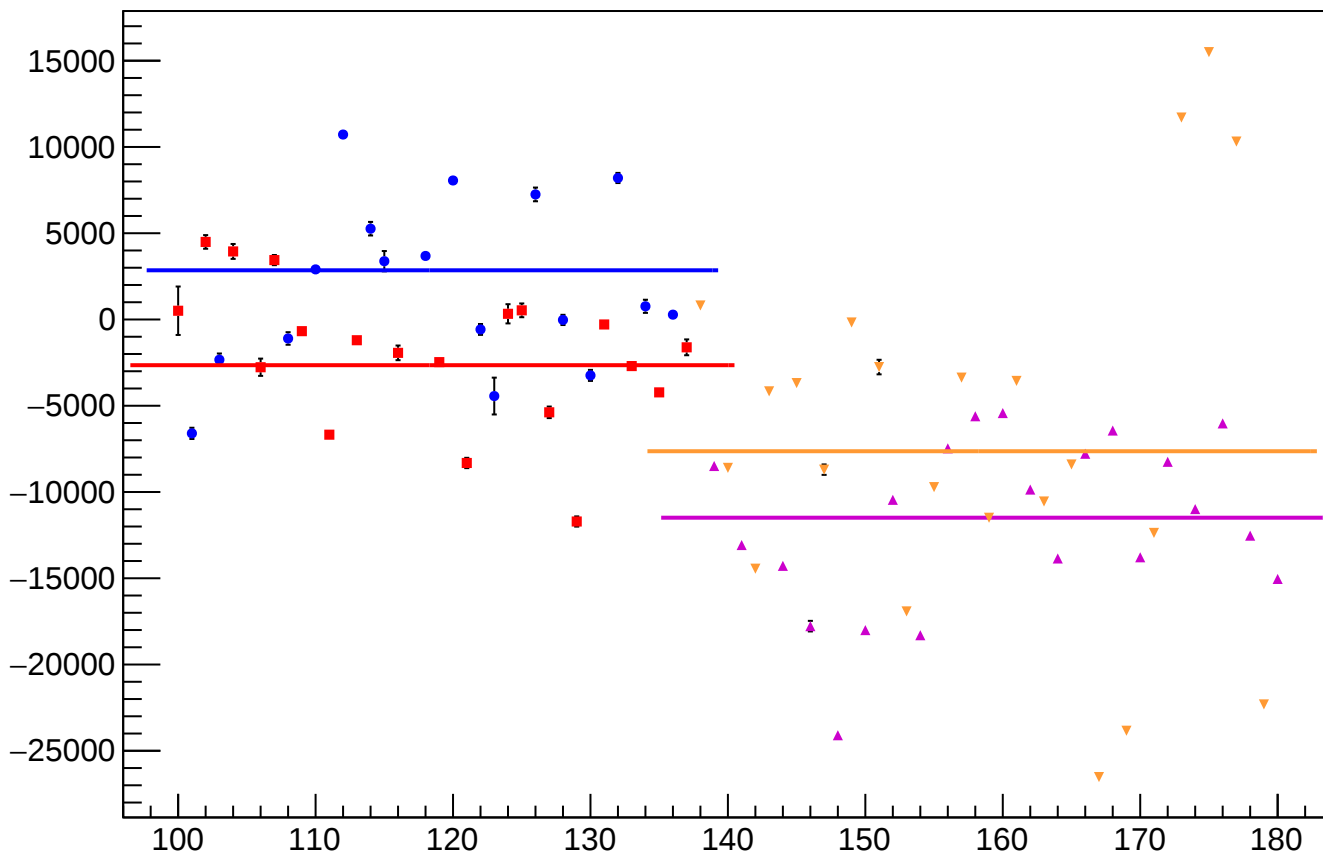
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 159.564+/-0.025 χ^2/NDF :2474272.1/37

Out: 156.586+/-0.024 χ^2/NDF :2859678.9/40

All: 158.023+/-0.017 χ^2/NDF : 5341526.6/78

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7636.273+/-48.312 χ^2/NDF : 49025.2/21

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11489.213+/-45.217 χ^2/NDF : 11603.3/20

Left: -9690.090+/-33.013 χ^2/NDF : 64018.9/42

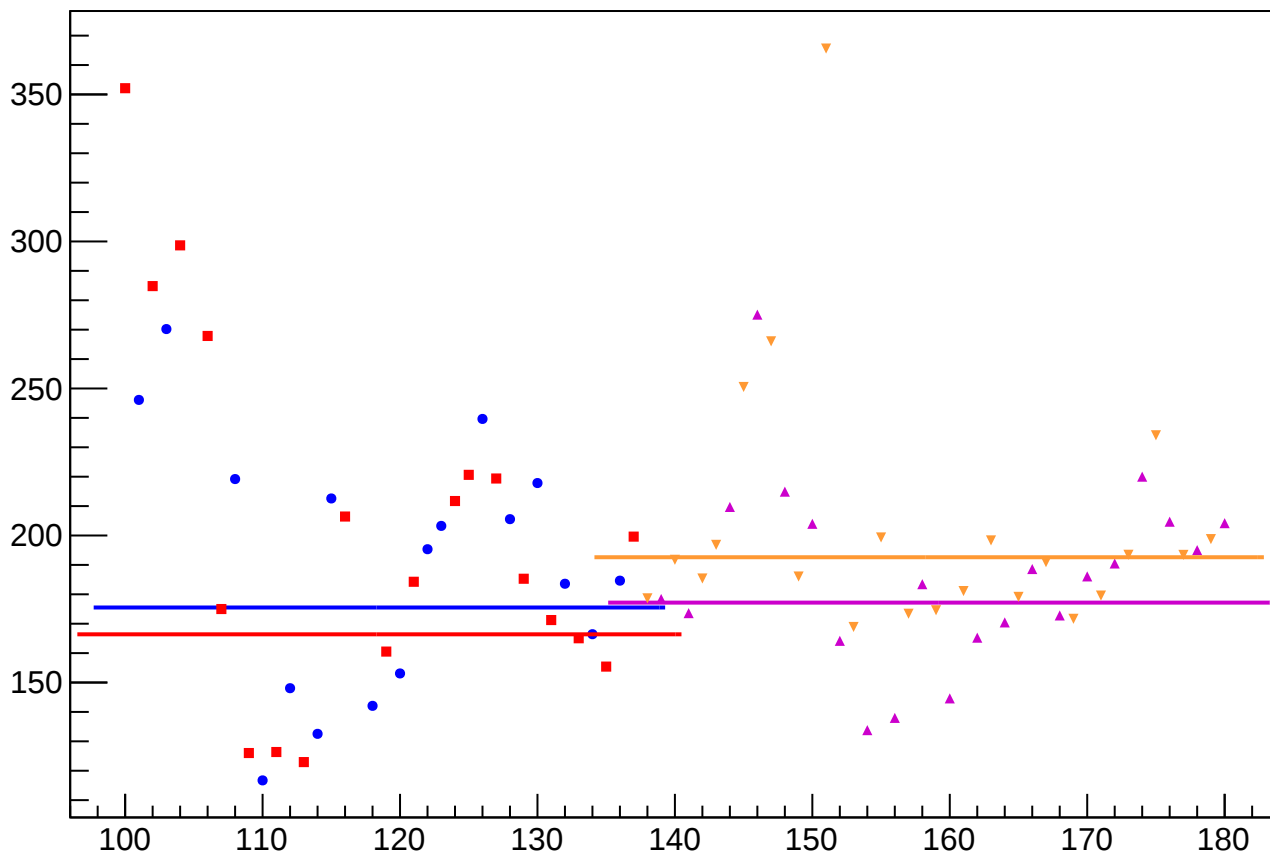
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -7330.635+/-38.101 χ^2/NDF : 44949.7/37

Out: -5887.089+/-38.928 χ^2/NDF : 55938.4/40

All: -6624.359+/-27.229 χ^2/NDF : 101590.5/77

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.607+/-0.034 χ^2/NDF : 712704.7/21

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 177.174+/-0.032 χ^2/NDF : 855090.3/20

Left: 184.380+/-0.023 χ^2/NDF : 1676592.0/42

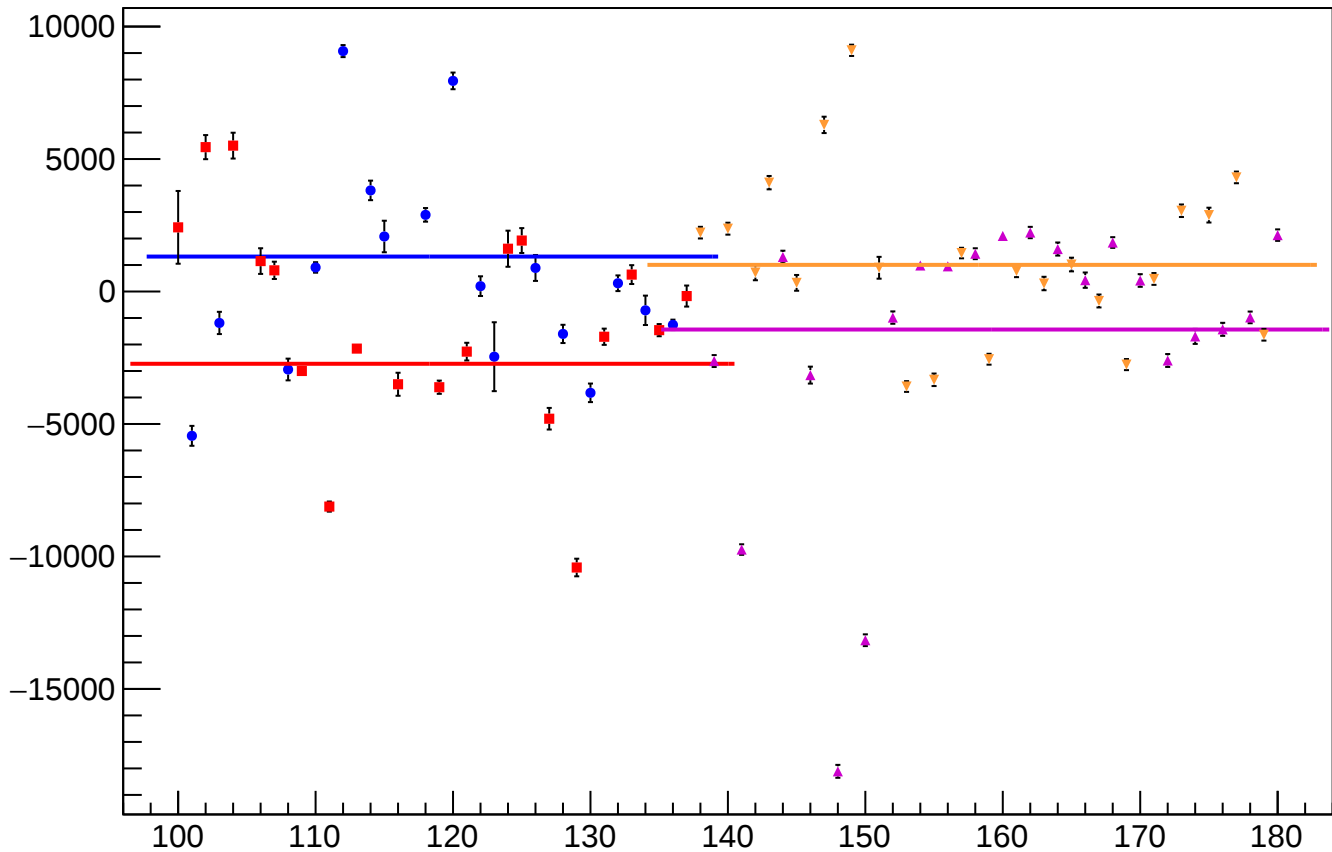
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 176.692+/-0.027 χ^2/NDF : 1545513.7/37

Out: 183.413+/-0.028 χ^2/NDF : 1848769.4/40

All: 179.980+/-0.019 χ^2/NDF : 3424724.9/78

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 ± 77.146 $\chi^2/\text{NDF}: 2667.0/16$

Left Out: 1005.570 ± 50.712 $\chi^2/\text{NDF}: 3970.3/21$

Right Out: -2727.798 ± 70.029 $\chi^2/\text{NDF}: 2495.9/18$

Left In: -1434.946 ± 47.299 $\chi^2/\text{NDF}: 11595.1/20$

Left: -299.578 ± 34.589 $\chi^2/\text{NDF}: 16804.0/42$

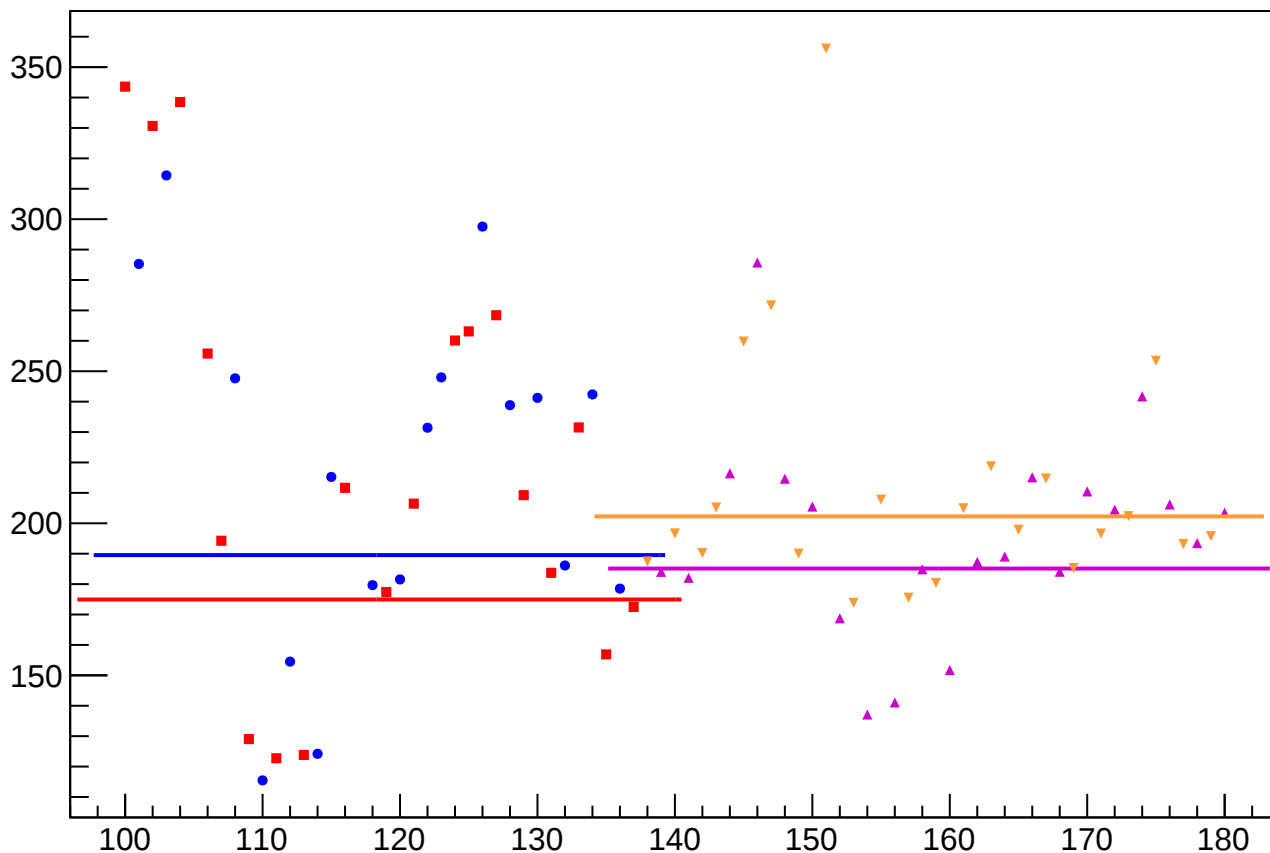
Right: -899.614 ± 51.852 $\chi^2/\text{NDF}: 6671.5/35$

In: -682.557 ± 40.323 $\chi^2/\text{NDF}: 15188.4/37$

Out: -278.717 ± 41.073 $\chi^2/\text{NDF}: 8330.7/40$

All: -484.359 ± 28.774 $\chi^2/\text{NDF}: 23568.2/78$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.261 $\pm$ 0.036 χ^2 /NDF: 674679.9/21

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 185.117 $\pm$ 0.033 χ^2 /NDF: 882704.7/20

Left: 193.093 $\pm$ 0.024 χ^2 /NDF: 1679635.2/42

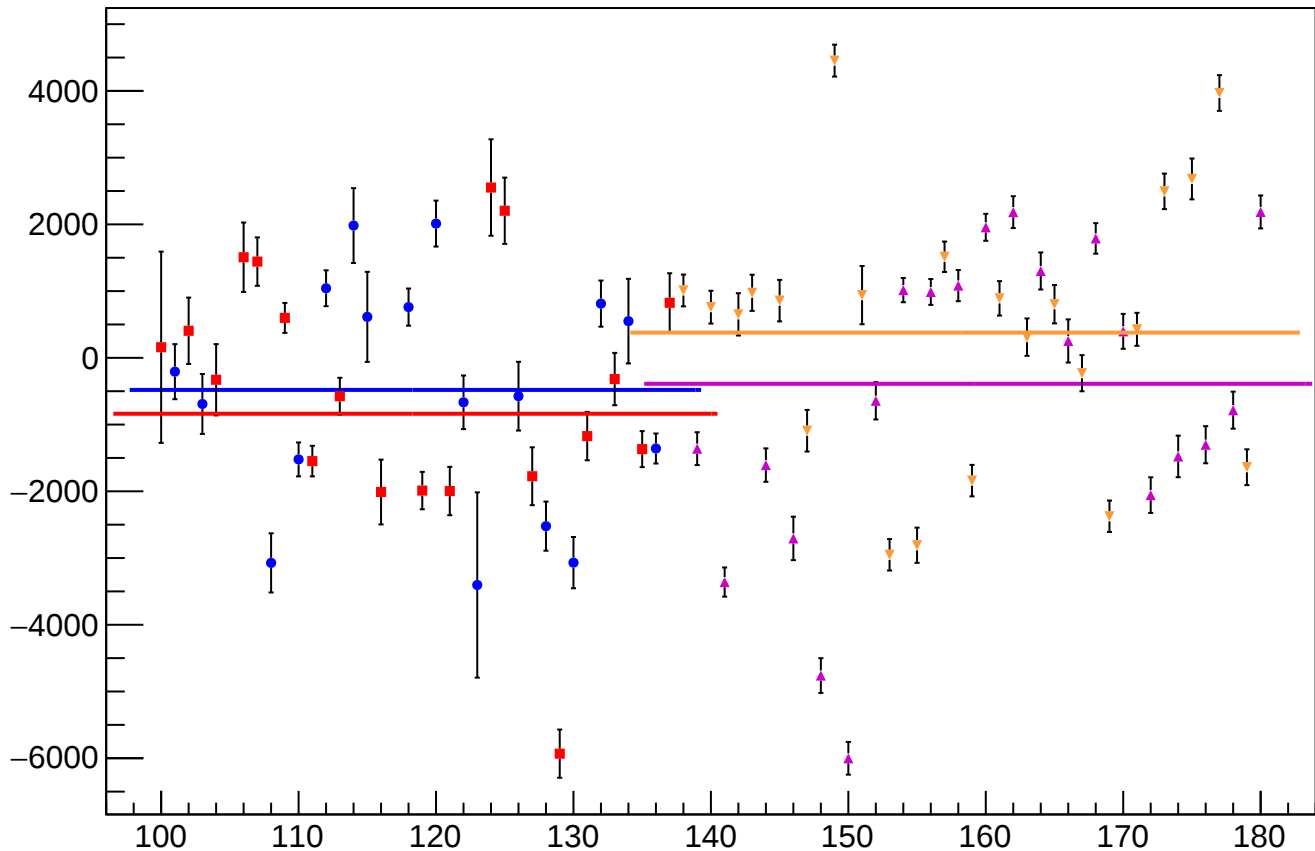
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 186.326 $\pm$ 0.029 χ^2 /NDF: 1868237.8/37

Out: 192.864 $\pm$ 0.029 χ^2 /NDF: 2171432.6/40

All: 189.535 $\pm$ 0.020 χ^2 /NDF: 4065472.8/78

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 378.387±/56.693 χ^2/NDF :1293.7/21

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -388.764±/53.656 χ^2/NDF :1797.0/20

Left: -26.284±/38.970 χ^2/NDF : 3187.3/42

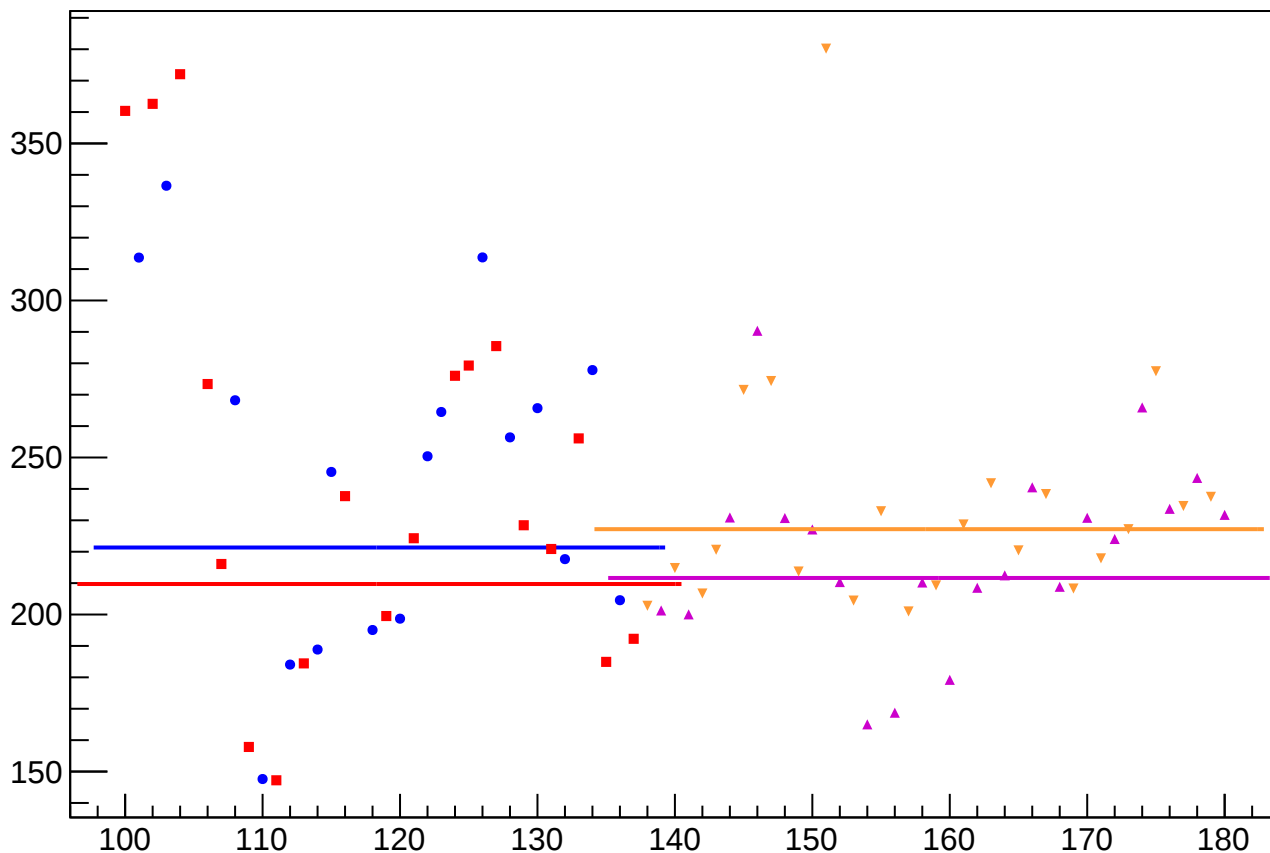
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -413.385±/45.902 χ^2/NDF :2088.5/37

Out: -13.254±/46.678 χ^2/NDF :1877.1/40

All: -216.672±/32.728 χ^2/NDF : 4003.0/78

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 ± 0.063 $\chi^2/\text{NDF}: 645688.1/16$

Left Out: 227.180 ± 0.040 $\chi^2/\text{NDF}: 515843.3/21$

Right Out: 209.717 ± 0.058 $\chi^2/\text{NDF}: 883917.7/18$

Left In: 211.642 ± 0.038 $\chi^2/\text{NDF}: 582988.2/20$

Left: 218.984 ± 0.028 $\chi^2/\text{NDF}: 1178085.0/42$

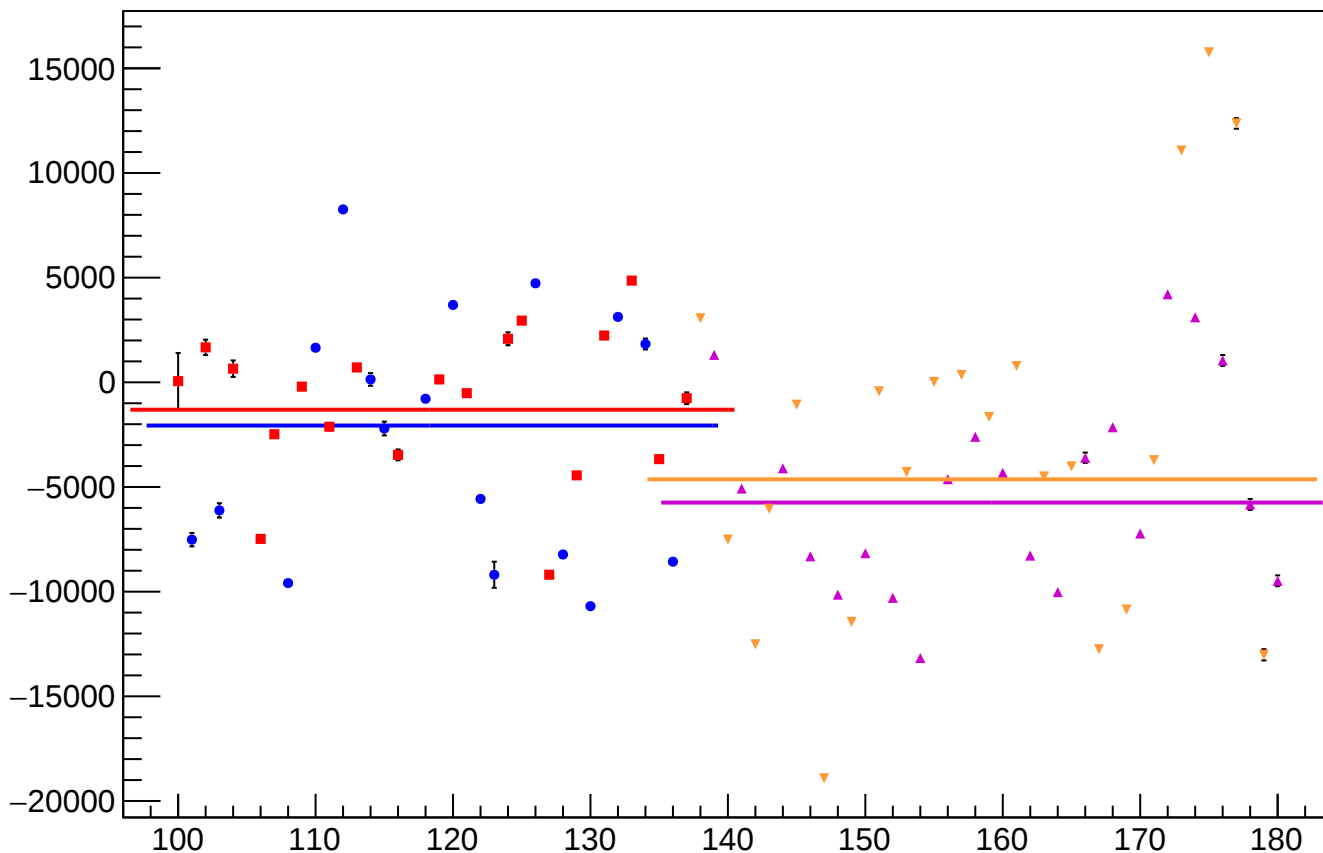
Right: 215.095 ± 0.043 $\chi^2/\text{NDF}: 1548093.3/35$

In: 214.243 ± 0.032 $\chi^2/\text{NDF}: 1246205.3/37$

Out: 221.555 ± 0.033 $\chi^2/\text{NDF}: 1460892.7/40$

All: 217.838 ± 0.023 $\chi^2/\text{NDF}: 2732048.1/78$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4633.415 $\pm$ 34.509 χ^2/NDF : 50432.1/21

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5744.333 $\pm$ 35.415 χ^2/NDF : 14303.9/20

Left: -5174.480 $\pm$ 24.716 χ^2/NDF : 65240.7/42

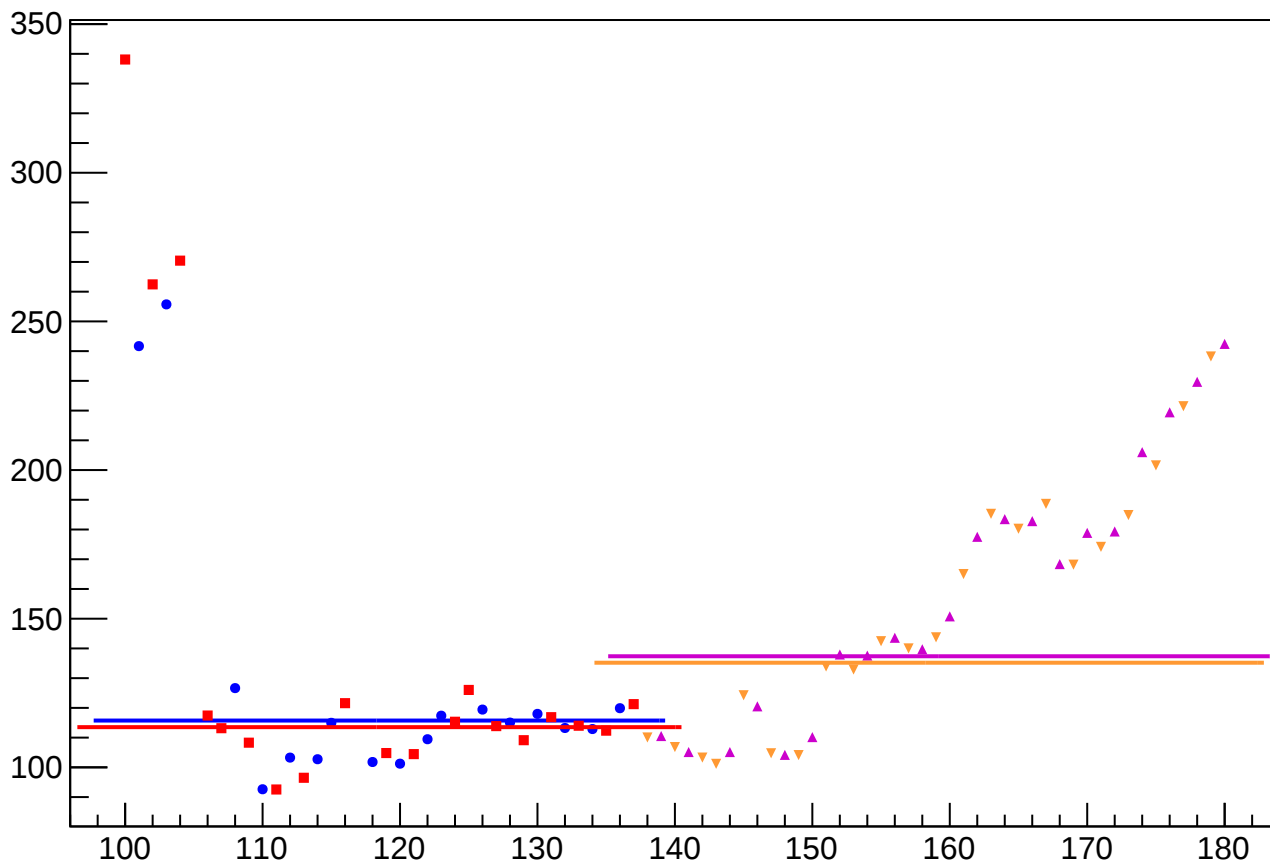
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4423.468 $\pm$ 28.354 χ^2/NDF : 34711.7/37

Out: -3402.190 $\pm$ 27.384 χ^2/NDF : 59763.9/40

All: -3895.062 $\pm$ 19.698 χ^2/NDF : 95146.9/78

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 ± 0.033 $\chi^2/\text{NDF}: 744017.7/16$

Left Out: 135.194 ± 0.024 $\chi^2/\text{NDF}: 2006897.3/21$

Right Out: 113.519 ± 0.032 $\chi^2/\text{NDF}: 796640.6/18$

Left In: 137.366 ± 0.025 $\chi^2/\text{NDF}: 2080851.7/20$

Left: 136.252 ± 0.017 $\chi^2/\text{NDF}: 4091611.0/42$

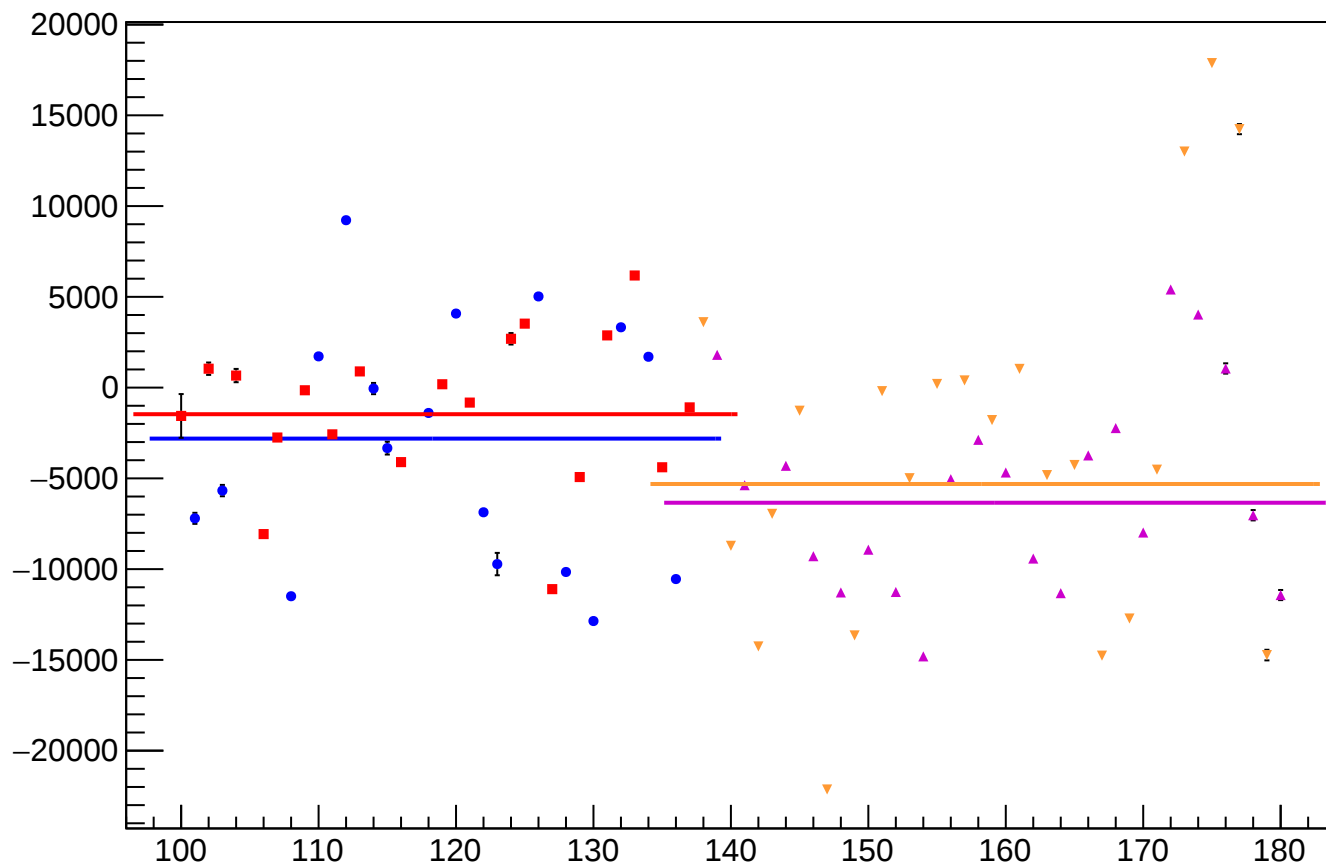
Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$

In: 129.603 ± 0.020 $\chi^2/\text{NDF}: 3092601.2/37$

Out: 127.167 ± 0.019 $\chi^2/\text{NDF}: 3095691.1/40$

All: 128.343 ± 0.014 $\chi^2/\text{NDF}: 6195924.6/78$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2 /NDF: 21263.1/16

Left Out: -5309.658+/-36.735 χ^2 /NDF:58609.4/21

Right Out: -1465.074+/-46.394 χ^2 /NDF: 8004.7/18

Left In: -6342.481+/-37.723 χ^2 /NDF:16686.5/20

Left: -5812.368+/-26.318 χ^2 /NDF: 75680.7/42

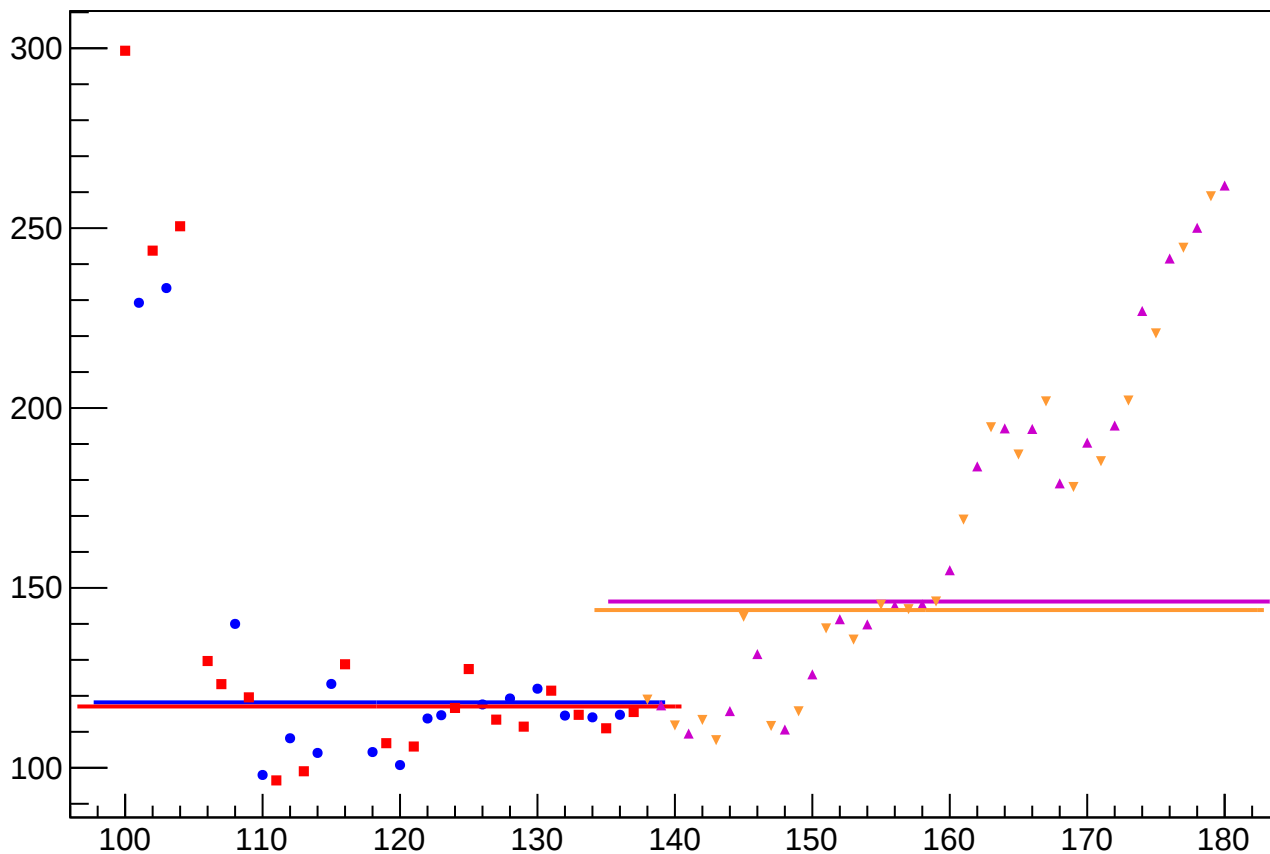
Right: -2110.267+/-33.454 χ^2 /NDF: 29670.7/35

In: -5003.223+/-29.727 χ^2 /NDF:41275.0/37

Out: -3828.129+/-28.800 χ^2 /NDF:70834.9/40

All: -4397.082+/-20.685 χ^2 /NDF: 112915.9/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2 /NDF: 636252.0/16

Left Out: 143.845 $\pm$ 0.026 χ^2 /NDF:1971984.2/21

Right Out: 117.046 $\pm$ 0.033 χ^2 /NDF: 690635.5/18

Left In: 146.218 $\pm$ 0.027 χ^2 /NDF:2063977.9/20

Left: 145.000 $\pm$ 0.019 χ^2 /NDF: 4040022.8/42

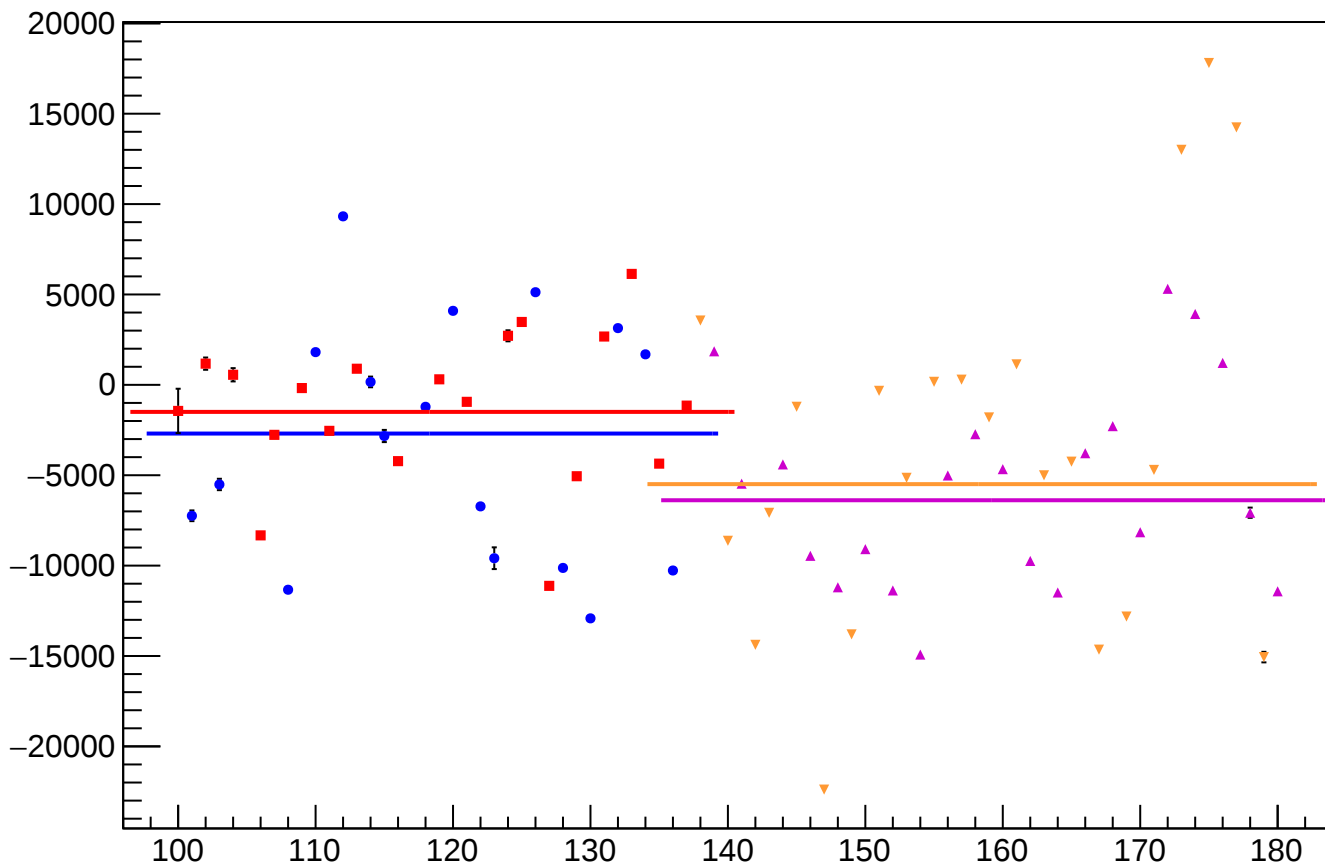
Right: 117.594 $\pm$ 0.024 χ^2 /NDF: 1327469.8/35

In: 135.594 $\pm$ 0.021 χ^2 /NDF:3118760.5/37

Out: 133.518 $\pm$ 0.020 χ^2 /NDF:3072813.5/40

All: 134.523 $\pm$ 0.015 χ^2 /NDF: 6196605.1/78

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260 ± 46.347 $\chi^2/\text{NDF}: 22860.3/16$

Left Out: -5492.555 ± 35.881 $\chi^2/\text{NDF}: 63073.4/21$

Right Out: -1495.744 ± 44.445 $\chi^2/\text{NDF}: 8717.2/18$

Left In: -6383.824 ± 36.789 $\chi^2/\text{NDF}: 17789.7/20$

Left: -5927.060 ± 25.687 $\chi^2/\text{NDF}: 81163.9/42$

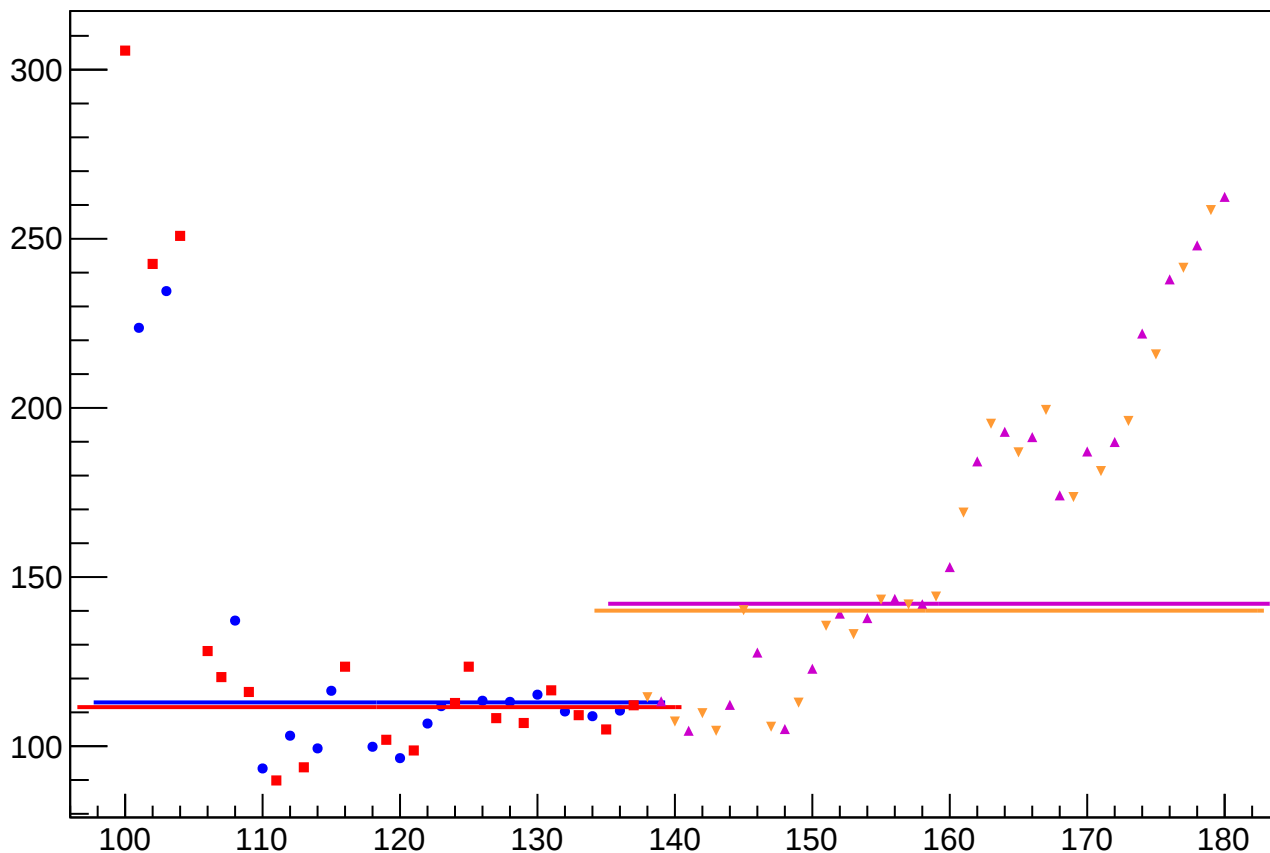
Right: -2069.900 ± 32.079 $\chi^2/\text{NDF}: 31925.8/35$

In: -4957.706 ± 28.815 $\chi^2/\text{NDF}: 44537.8/37$

Out: -3915.461 ± 27.919 $\chi^2/\text{NDF}: 76686.5/40$

All: -4420.125 ± 20.051 $\chi^2/\text{NDF}: 121899.1/70$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 140.070 $\pm$ 0.025 χ^2 /NDF: 2115952.8/21

Right Out: 111.544 $\pm$ 0.031 χ^2 /NDF: 765502.6/18

Left In: 142.104 $\pm$ 0.026 χ^2 /NDF: 2222689.8/20

Left: 141.062 $\pm$ 0.018 χ^2 /NDF: 4341775.4/42

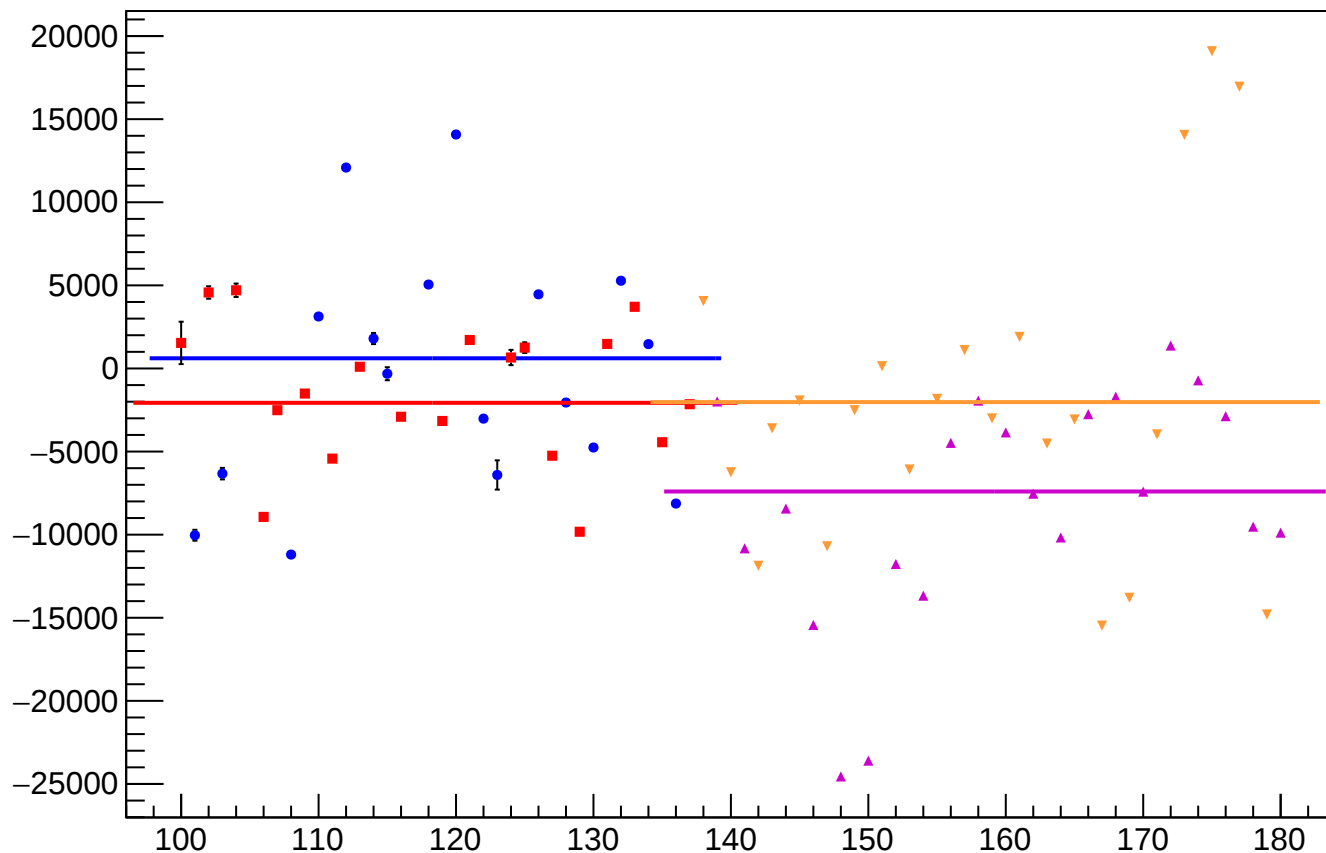
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 130.832 $\pm$ 0.020 χ^2 /NDF: 3388782.9/37

Out: 128.814 $\pm$ 0.020 χ^2 /NDF: 3380277.3/40

All: 129.791 $\pm$ 0.014 χ^2 /NDF: 6774117.9/78

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2023.678 ± 40.808 $\chi^2/\text{NDF}: 39549.6/21$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -7402.384 ± 42.522 $\chi^2/\text{NDF}: 19367.0/20$

Left: -4602.461 ± 29.443 $\chi^2/\text{NDF}: 67245.7/42$

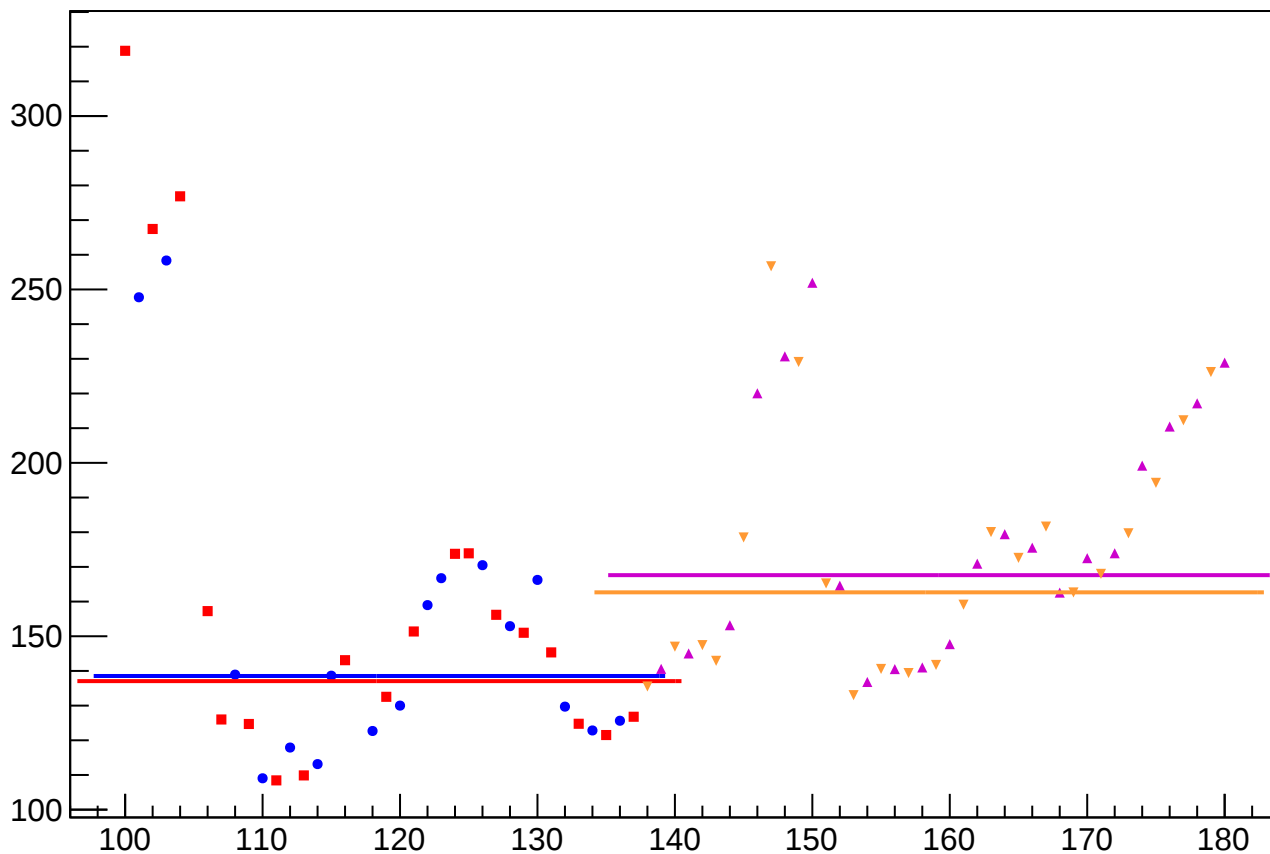
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4475.291 ± 33.879 $\chi^2/\text{NDF}: 50585.5/37$

Out: -2039.601 ± 32.542 $\chi^2/\text{NDF}: 44192.8/40$

All: -3208.433 ± 23.469 $\chi^2/\text{NDF}: 97466.6/78$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 162.662 $\pm$ 0.029 χ^2 /NDF:962035.8/21

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 167.619 $\pm$ 0.030 χ^2 /NDF:1048972.7/20

Left: 165.039 $\pm$ 0.021 χ^2 /NDF: 2025155.9/42

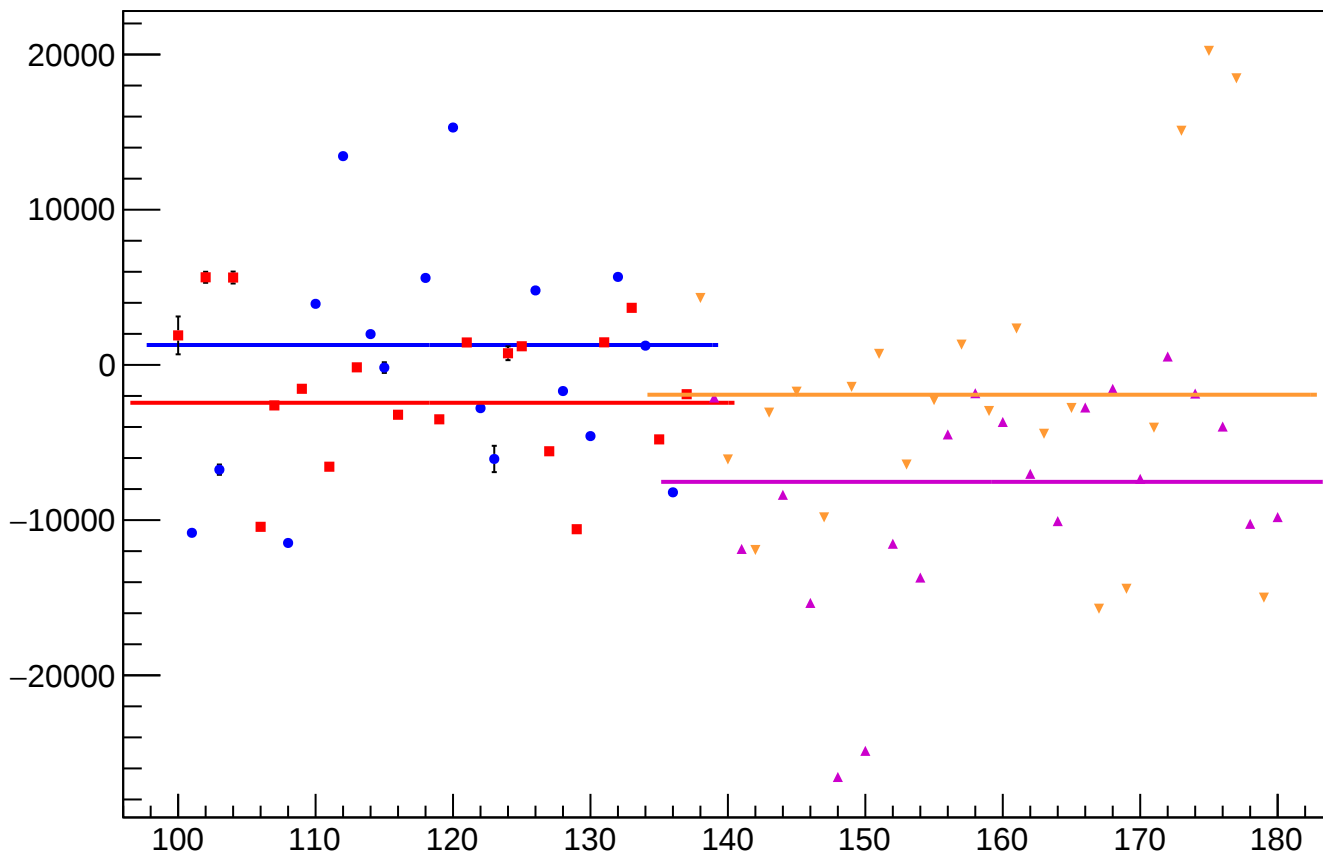
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 157.000 $\pm$ 0.024 χ^2 /NDF:2059451.6/37

Out: 153.341 $\pm$ 0.023 χ^2 /NDF:2004126.4/40

All: 155.097 $\pm$ 0.017 χ^2 /NDF: 4075712.8/78

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2 /NDF: 30540.8/16

Left Out: -1920.813+/-36.836 χ^2 /NDF:49218.0/21

Right Out: -2440.256+/-44.286 χ^2 /NDF: 7677.5/18

Left In: -7535.362+/-38.569 χ^2 /NDF:24076.1/20

Left: -4599.106+/-26.639 χ^2 /NDF: 84376.3/42

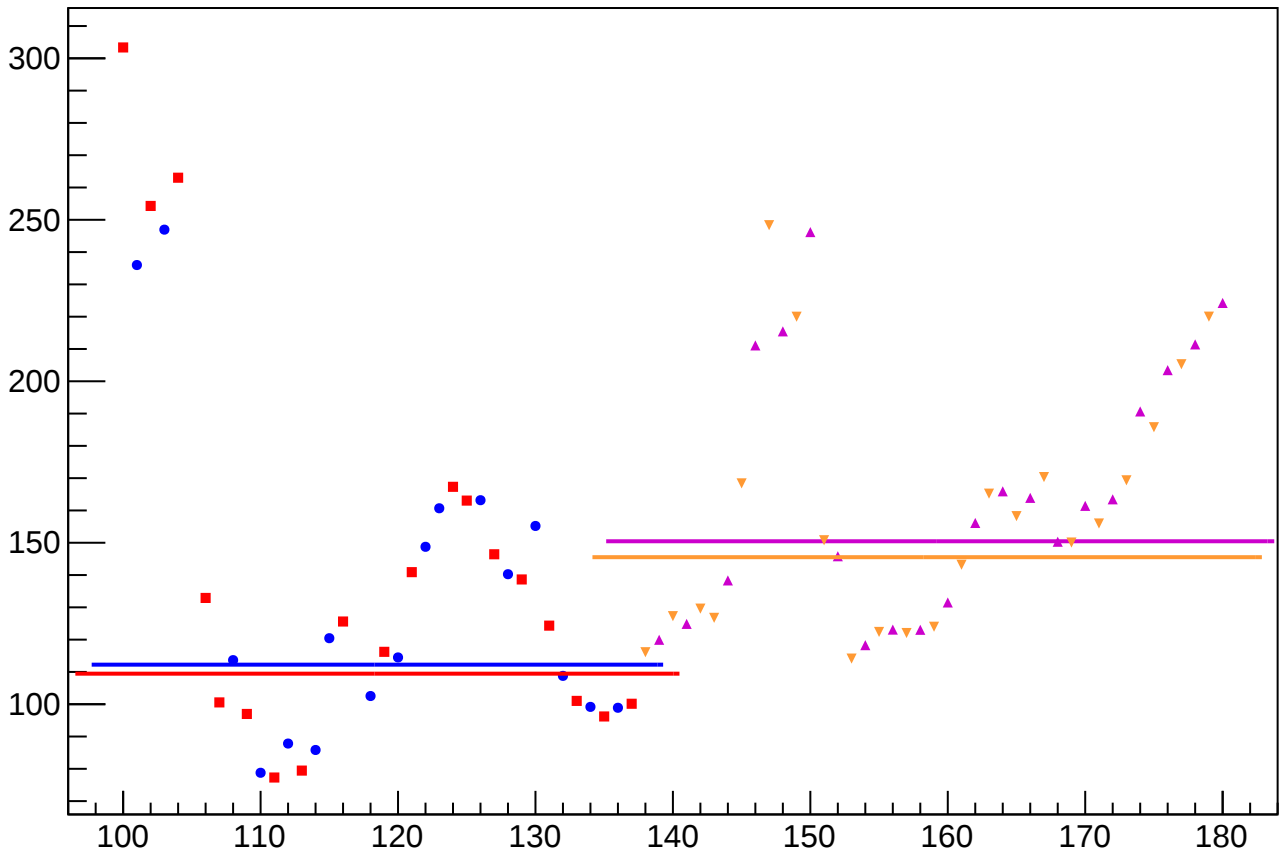
Right: -672.266+/-32.093 χ^2 /NDF: 41574.7/35

In: -3947.829+/-29.705 χ^2 /NDF:75883.7/37

Out: -2133.230+/-28.320 χ^2 /NDF:56976.8/40

All: -2997.234+/-20.497 χ^2 /NDF: 134815.4/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 145.530+/-0.026 χ^2/NDF : 1410765.4/21

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 150.459+/-0.027 χ^2/NDF : 1528658.3/20

Left: 147.881+/-0.019 χ^2/NDF : 2956509.2/42

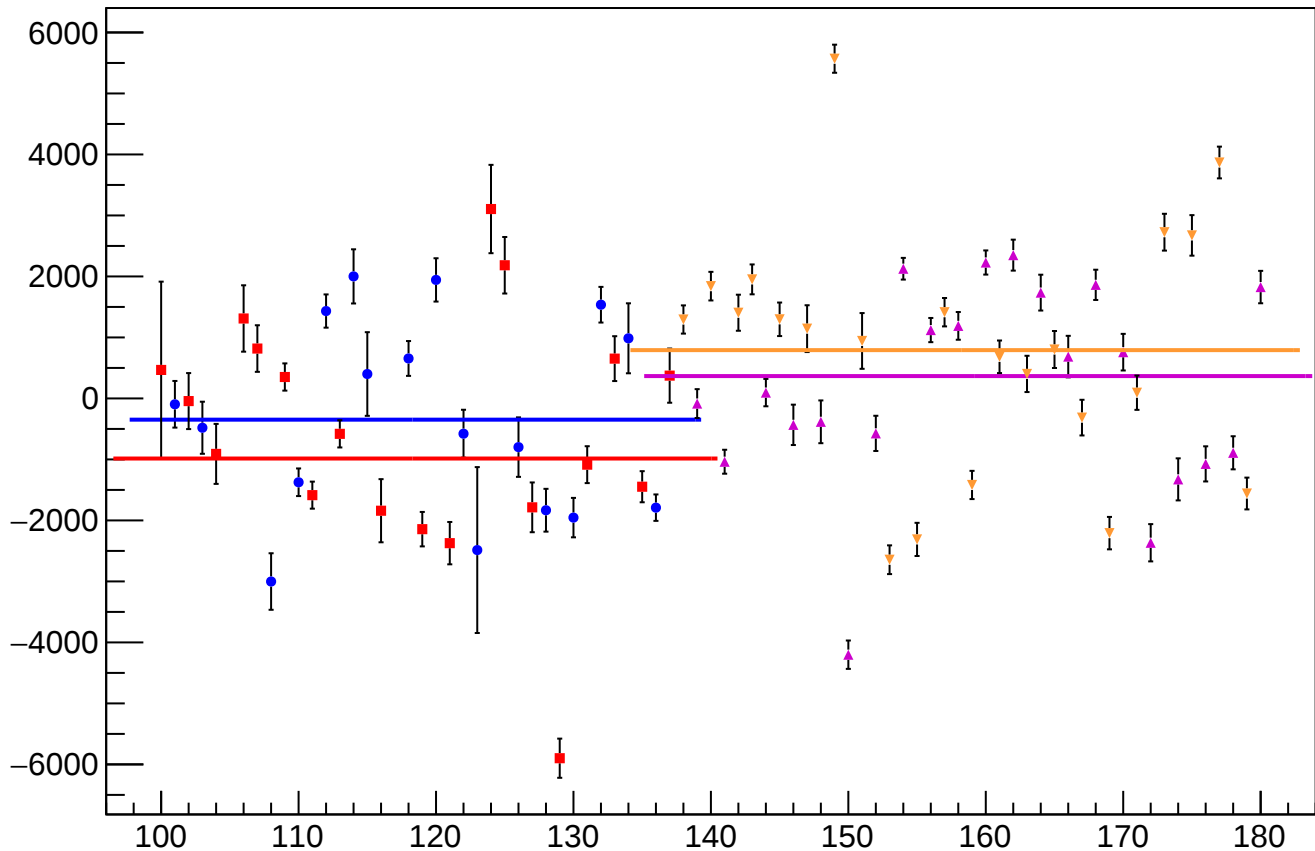
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 134.915+/-0.021 χ^2/NDF : 3452713.7/37

Out: 130.780+/-0.020 χ^2/NDF : 3464593.5/40

All: 132.749+/-0.014 χ^2/NDF : 6937611.0/78

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055+/-83.826 χ^2/NDF : 317.3/16

Left Out: 791.789+/-57.582 χ^2/NDF :1371.4/21

Right Out: -985.242+/-77.683 χ^2/NDF : 476.6/18

Left In: 366.438+/-54.605 χ^2/NDF :979.2/20

Left: 567.835+/-39.622 χ^2/NDF : 2379.4/42

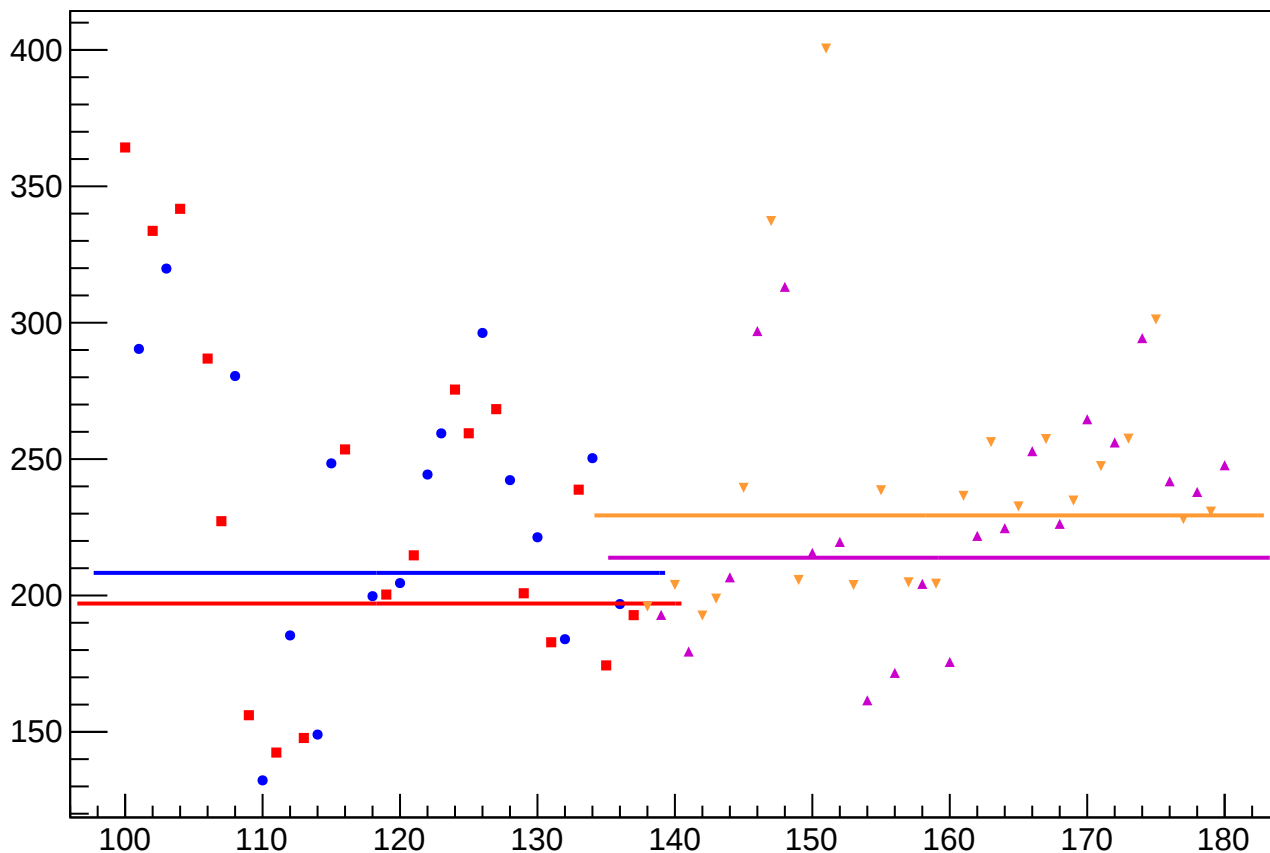
Right: -690.850+/-56.978 χ^2/NDF : 824.9/35

In: 153.577+/-45.754 χ^2/NDF :1347.5/37

Out: 161.642+/-46.259 χ^2/NDF :2185.7/40

All: 157.565+/-32.530 χ^2/NDF : 3533.2/78

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 229.360+/-0.041 χ^2/NDF : 817465.7/21

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 213.846+/-0.039 χ^2/NDF : 1016003.1/20

Left: 221.192+/-0.028 χ^2/NDF : 1909913.9/42

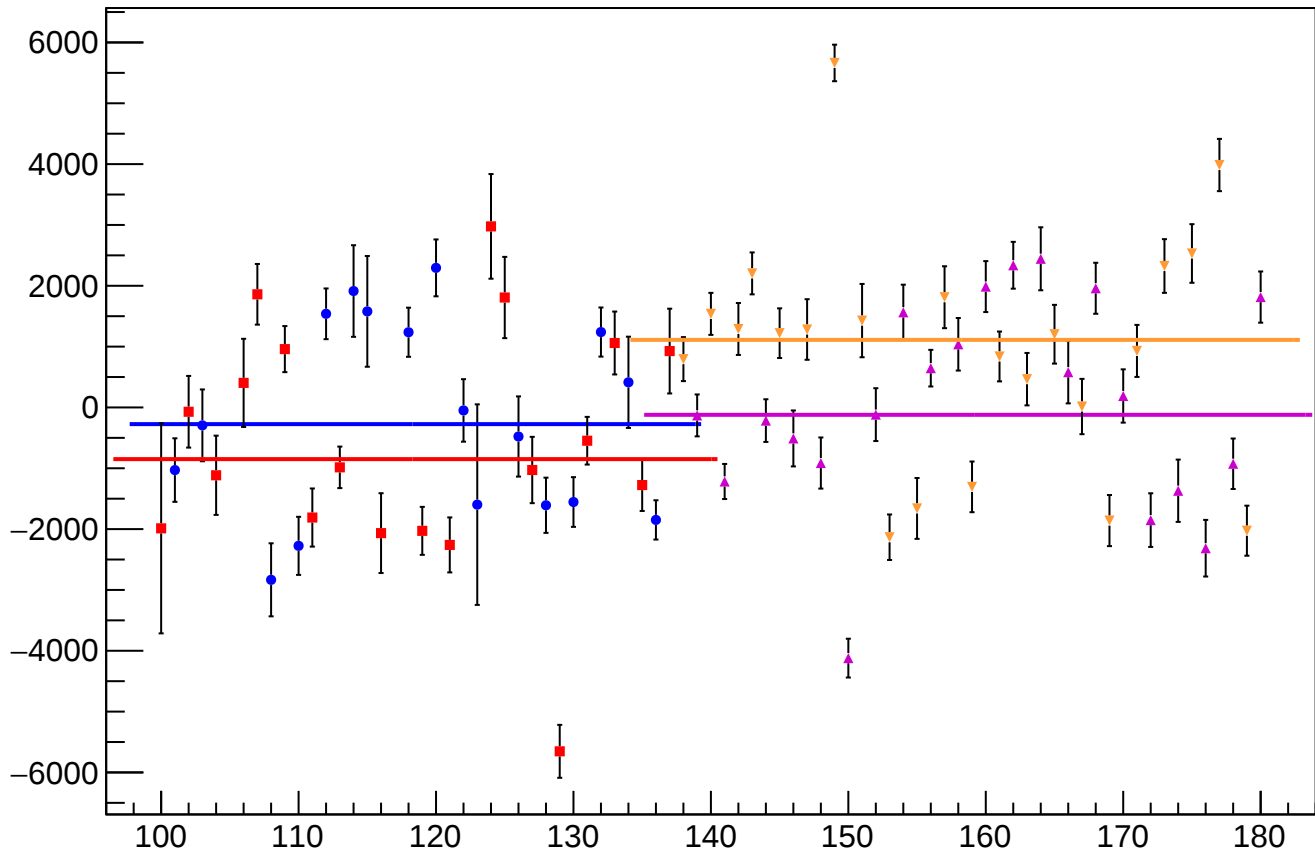
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 212.190+/-0.032 χ^2/NDF : 1720667.3/37

Out: 217.903+/-0.033 χ^2/NDF : 1967534.0/40

All: 215.015+/-0.023 χ^2/NDF : 3703623.4/78

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1110.912 ± 88.753 $\chi^2/\text{NDF}: 561.9/21$

Right Out: -849.413 ± 115.349 $\chi^2/\text{NDF}: 263.3/18$

Left In: -121.252 ± 87.281 $\chi^2/\text{NDF}: 389.6/20$

Left: 484.528 ± 62.231 $\chi^2/\text{NDF}: 1049.5/42$

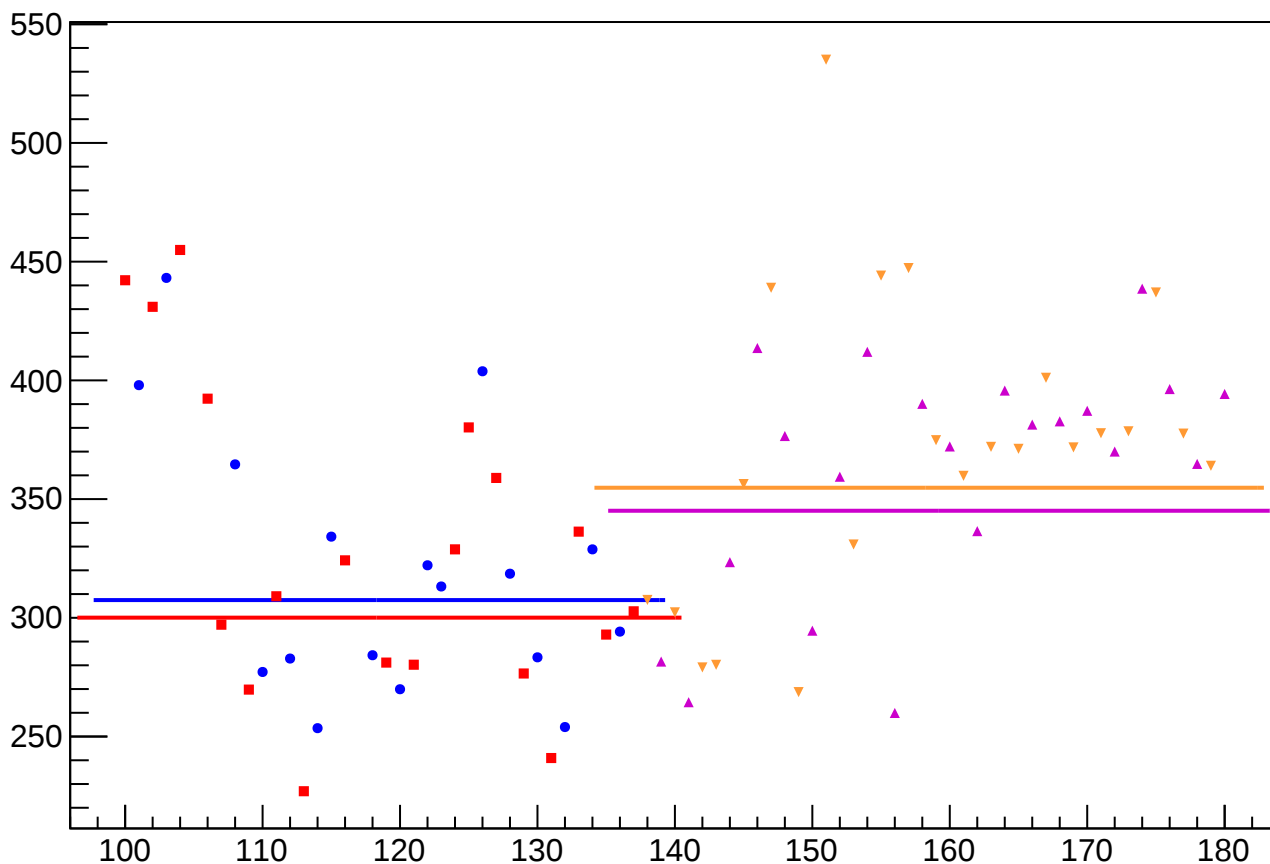
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -173.433 ± 70.852 $\chi^2/\text{NDF}: 562.2/37$

Out: 381.930 ± 70.341 $\chi^2/\text{NDF}: 1006.6/40$

All: 106.259 ± 49.918 $\chi^2/\text{NDF}: 1599.8/78$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 354.782+/-0.063 χ^2/NDF : 886227.5/21

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 345.087+/-0.062 χ^2/NDF : 767433.3/20

Left: 349.854+/-0.044 χ^2/NDF : 1665791.8/42

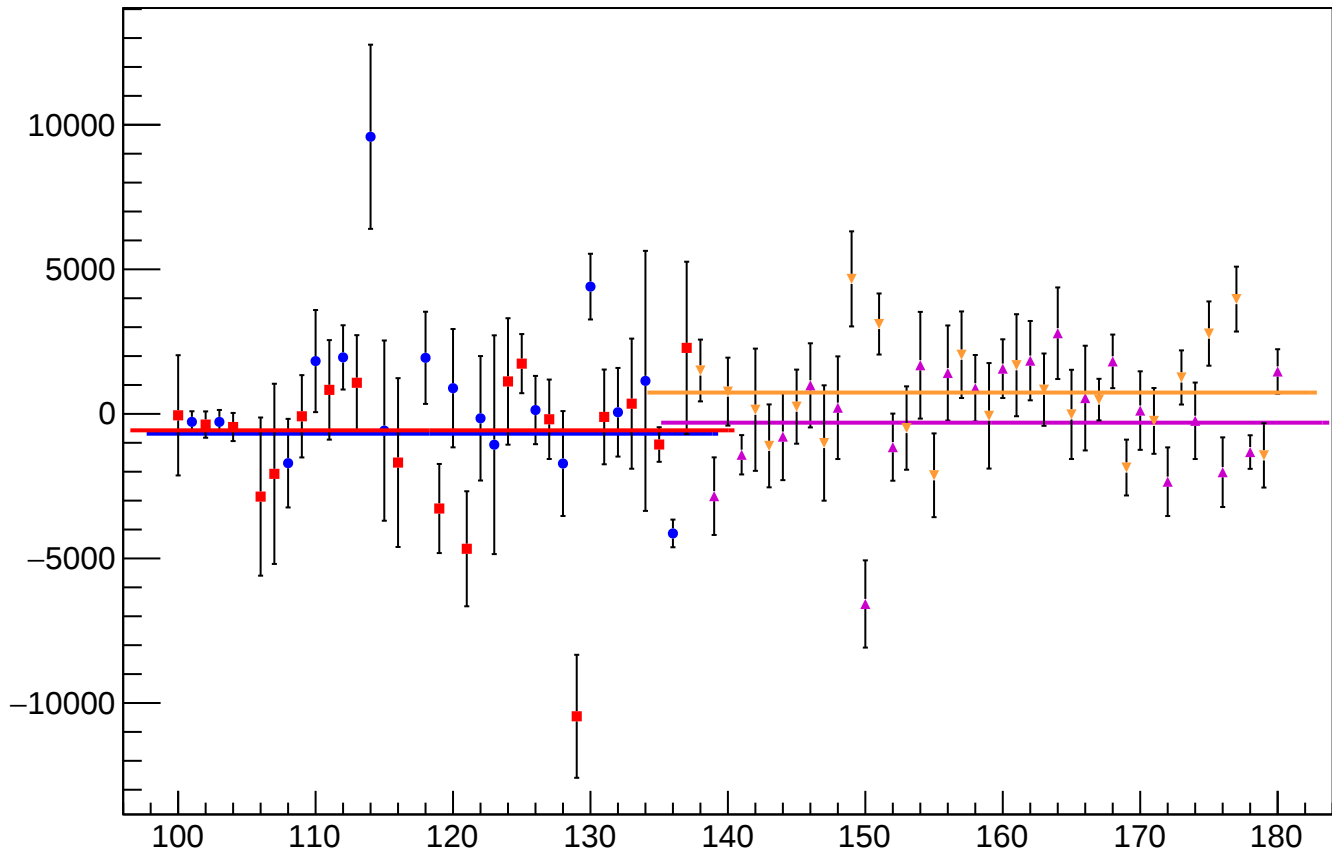
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 332.258+/-0.050 χ^2/NDF : 1217241.1/37

Out: 334.436+/-0.050 χ^2/NDF : 1659263.3/40

All: 333.355+/-0.035 χ^2/NDF : 2877456.4/78

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 ± 210.341 $\chi^2/\text{NDF}: 97.4/16$

Left Out: 737.619 ± 259.502 $\chi^2/\text{NDF}: 43.9/21$

Right Out: -568.651 ± 243.251 $\chi^2/\text{NDF}: 39.7/18$

Left In: -303.632 ± 242.003 $\chi^2/\text{NDF}: 56.9/20$

Left: 180.706 ± 176.985 $\chi^2/\text{NDF}: 109.4/42$

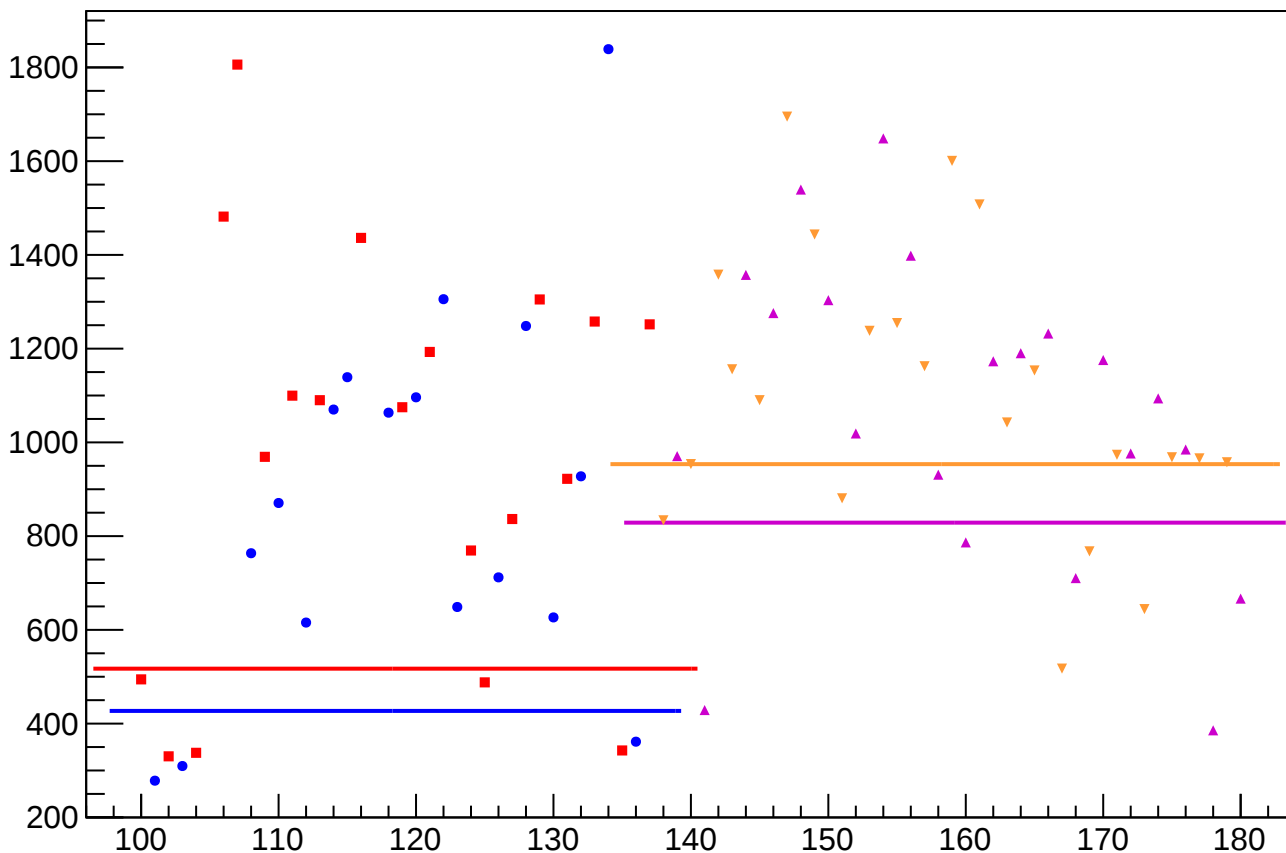
Right: -635.255 ± 159.106 $\chi^2/\text{NDF}: 137.2/35$

In: -520.912 ± 158.756 $\chi^2/\text{NDF}: 155.6/37$

Out: 42.305 ± 177.472 $\chi^2/\text{NDF}: 97.1/40$

All: -270.558 ± 118.323 $\chi^2/\text{NDF}: 258.3/78$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 953.588+/-0.183 χ^2/NDF :2349080.0/21

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 828.747+/-0.171 χ^2/NDF :4263743.7/20

Left: 886.817+/-0.125 χ^2/NDF : 6860391.0/42

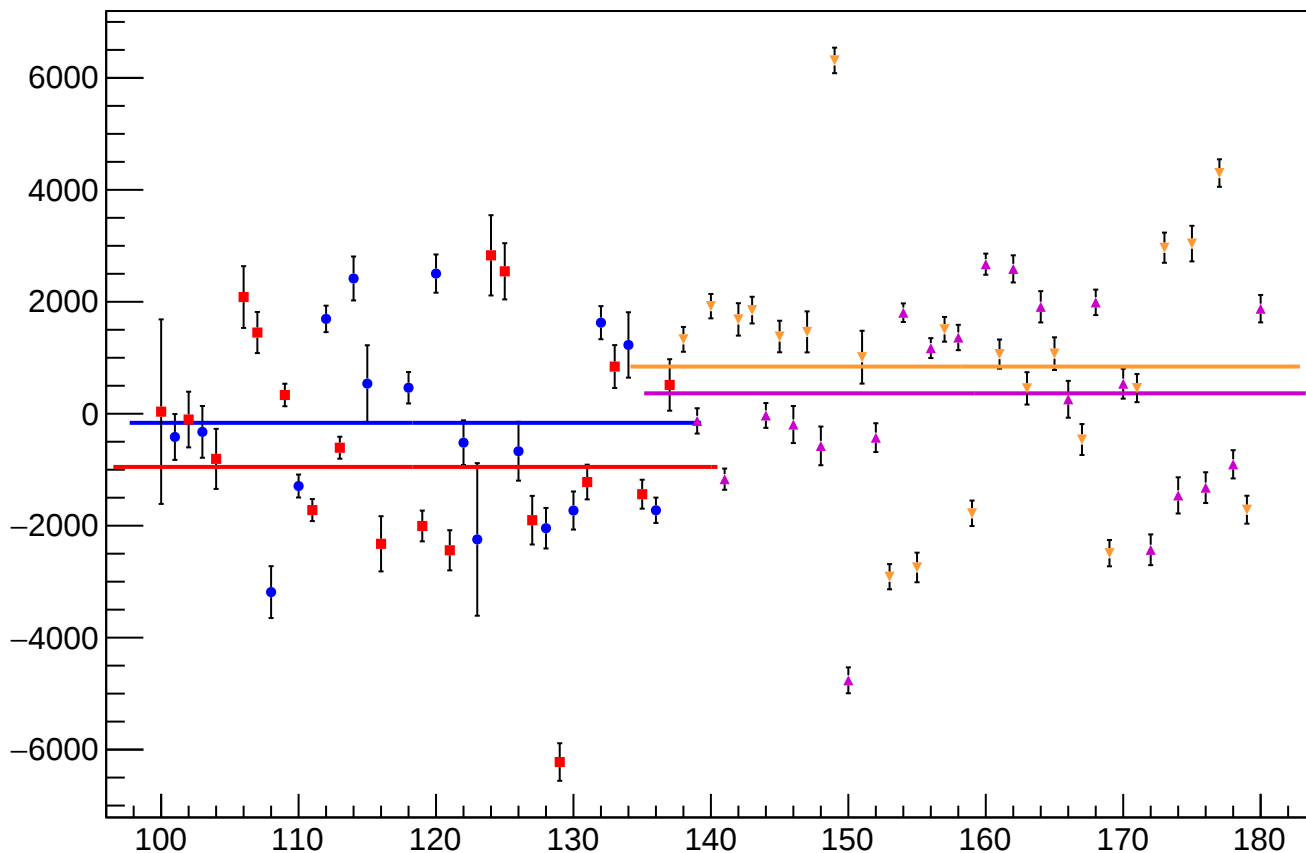
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 599.935+/-0.112 χ^2/NDF :10268007.3/37

Out: 721.321+/-0.125 χ^2/NDF :8964242.7/40

All: 653.892+/-0.084 χ^2/NDF : 19751996.3/78

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 843.000 ± 55.013 χ^2/NDF : 1884.2/21

Right Out: -950.093 ± 75.133 χ^2/NDF : 539.8/18

Left In: 364.772 ± 51.618 χ^2/NDF : 1251.4/20

Left: 588.678 ± 37.642 χ^2/NDF : 3175.9/42

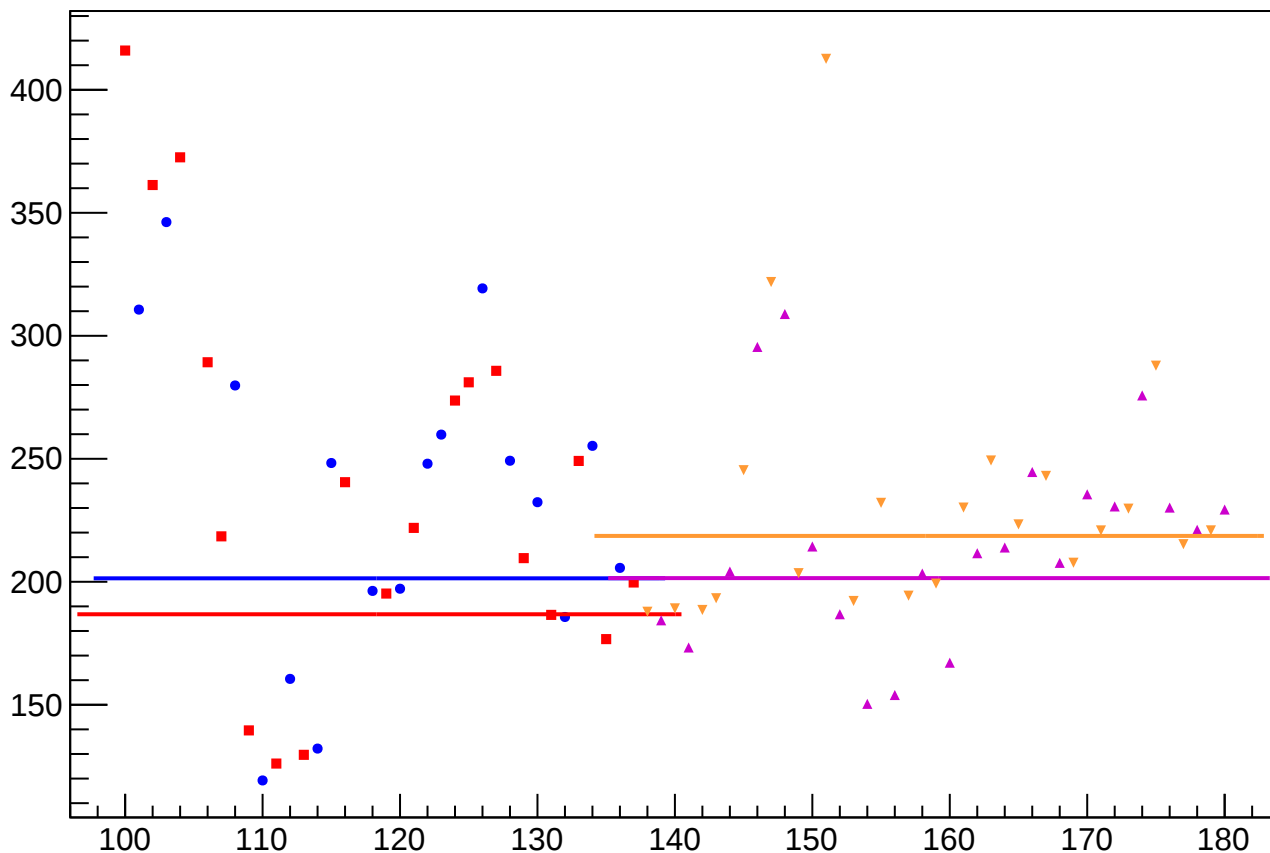
Right: -592.238 ± 55.504 χ^2/NDF : 977.3/35

In: 216.091 ± 43.737 χ^2/NDF : 1668.4/37

Out: 217.193 ± 44.386 χ^2/NDF : 2794.8/40

All: 216.634 ± 31.154 χ^2/NDF : 4463.2/78

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 218.650+/-0.039 χ^2/NDF : 860067.0/21

Right Out: 186.797+/-0.053 χ^2/NDF : 1393162.0/18

Left In: 201.491+/-0.036 χ^2/NDF : 1085941.3/20

Left: 209.525+/-0.027 χ^2/NDF : 2049485.6/42

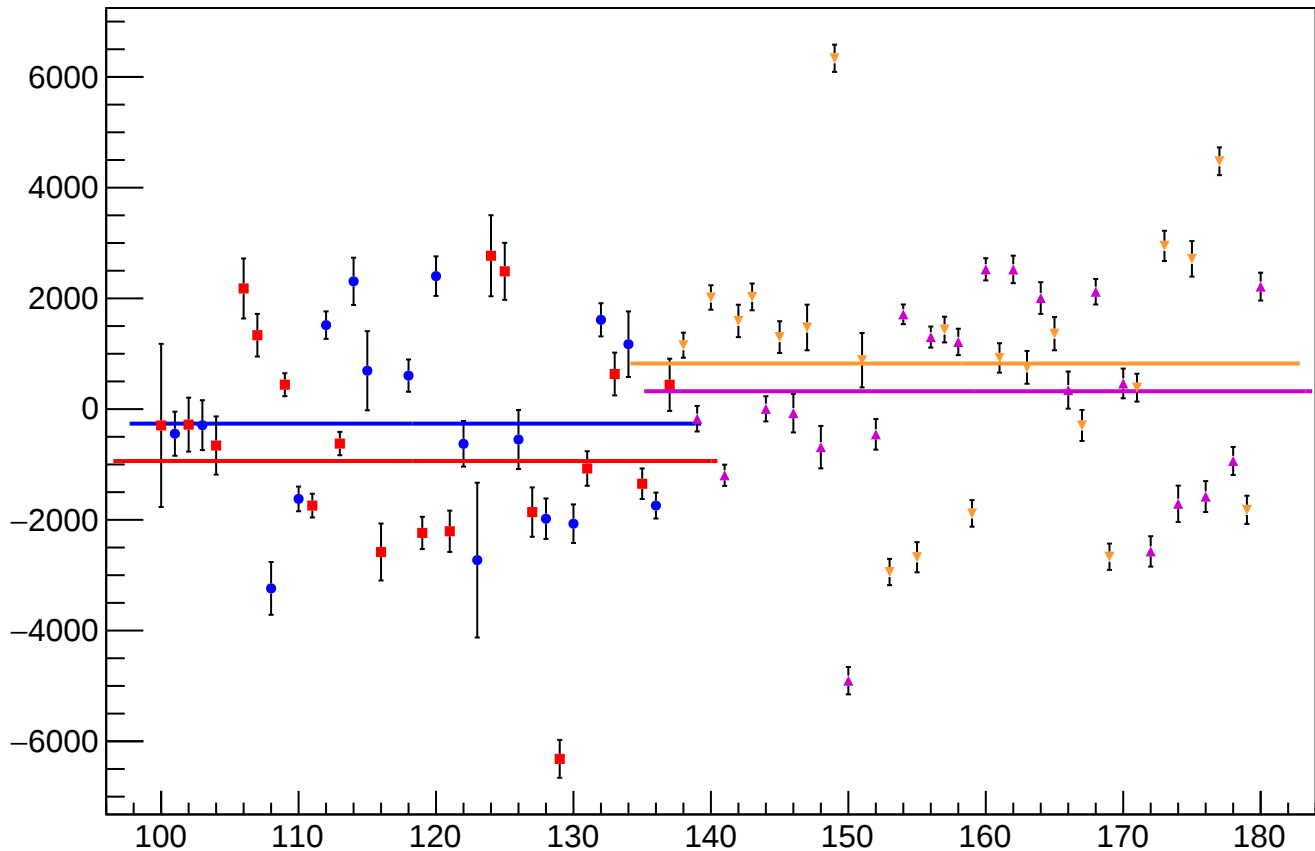
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 201.468+/-0.031 χ^2/NDF : 2141964.9/37

Out: 207.533+/-0.031 χ^2/NDF : 2487238.6/40

All: 204.456+/-0.022 χ^2/NDF : 4648151.6/78

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 ± 85.433 χ^2/NDF : 368.7/16

Left Out: 823.519 ± 56.616 χ^2/NDF : 1775.2/21

Right Out: -937.678 ± 78.434 χ^2/NDF : 521.9/18

Left In: 322.599 ± 53.584 χ^2/NDF : 1205.3/20

Left: 559.287 ± 38.918 χ^2/NDF : 3021.8/42

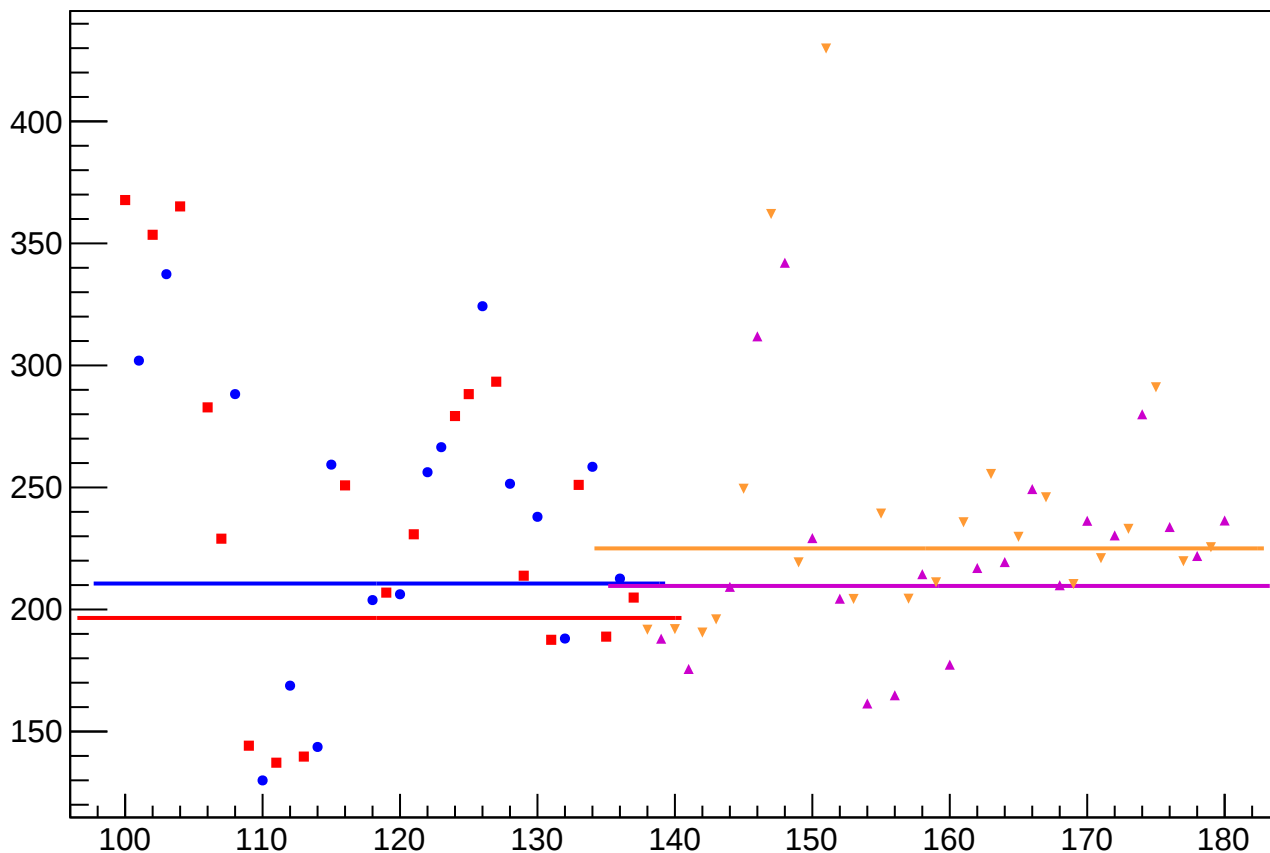
Right: -628.795 ± 57.777 χ^2/NDF : 924.5/35

In: 157.461 ± 45.394 χ^2/NDF : 1607.6/37

Out: 220.208 ± 45.906 χ^2/NDF : 2628.6/40

All: 188.483 ± 32.278 χ^2/NDF : 4237.2/78

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 225.030+/-0.040 χ^2/NDF : 903476.4/21

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 209.650+/-0.038 χ^2/NDF : 1013078.0/20

Left: 216.917+/-0.028 χ^2/NDF : 1994398.8/42

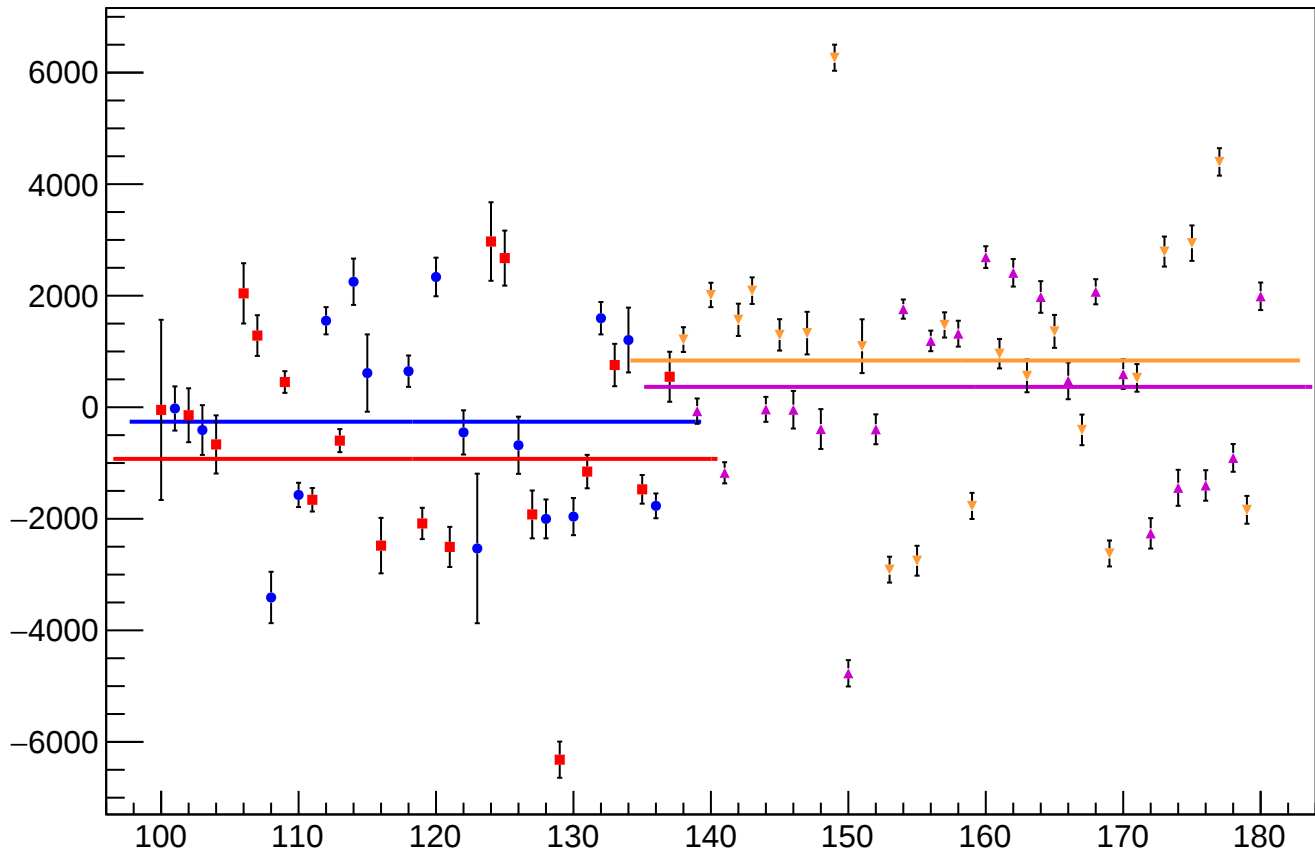
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 209.929+/-0.032 χ^2/NDF : 1889045.4/37

Out: 215.266+/-0.032 χ^2/NDF : 2282191.9/40

All: 212.568+/-0.023 χ^2/NDF : 4184908.0/78

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139±/82.802 χ^2/NDF : 391.2/16

Left Out: 838.487±/55.499 χ^2/NDF :1849.3/21

Right Out: -925.534±/75.503 χ^2/NDF : 581.9/18

Left In: 365.427±/52.378 χ^2/NDF :1197.8/20

Left: 588.281±/38.092 χ^2/NDF : 3085.5/42

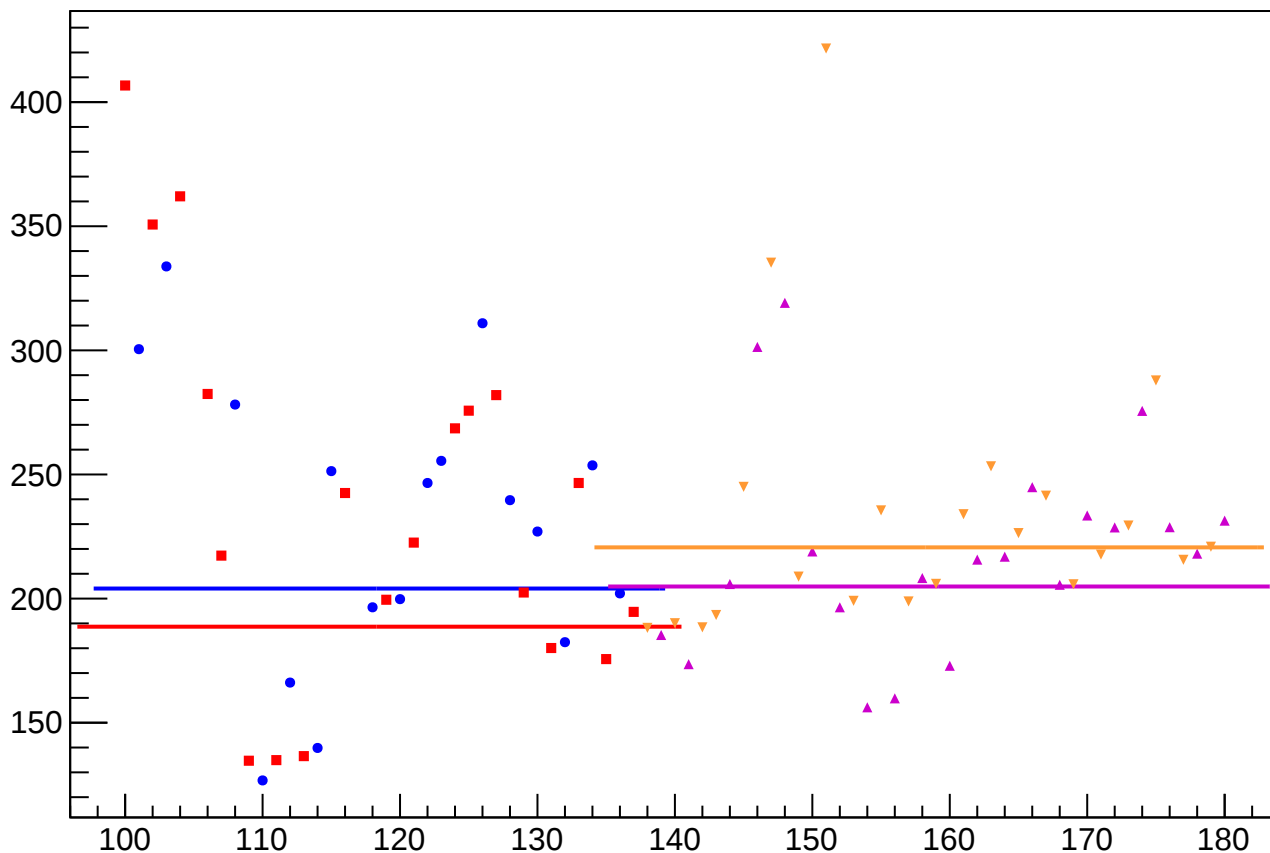
Right: -622.995±/55.791 χ^2/NDF : 1008.5/35

In: 186.935±/44.265 χ^2/NDF :1629.6/37

Out: 219.713±/44.718 χ^2/NDF :2785.5/40

All: 203.157±/31.459 χ^2/NDF : 4415.4/78

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 220.634+/-0.039 χ^2/NDF : 873573.0/21

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 204.870+/-0.037 χ^2/NDF : 995379.7/20

Left: 212.296+/-0.027 χ^2/NDF : 1954302.7/42

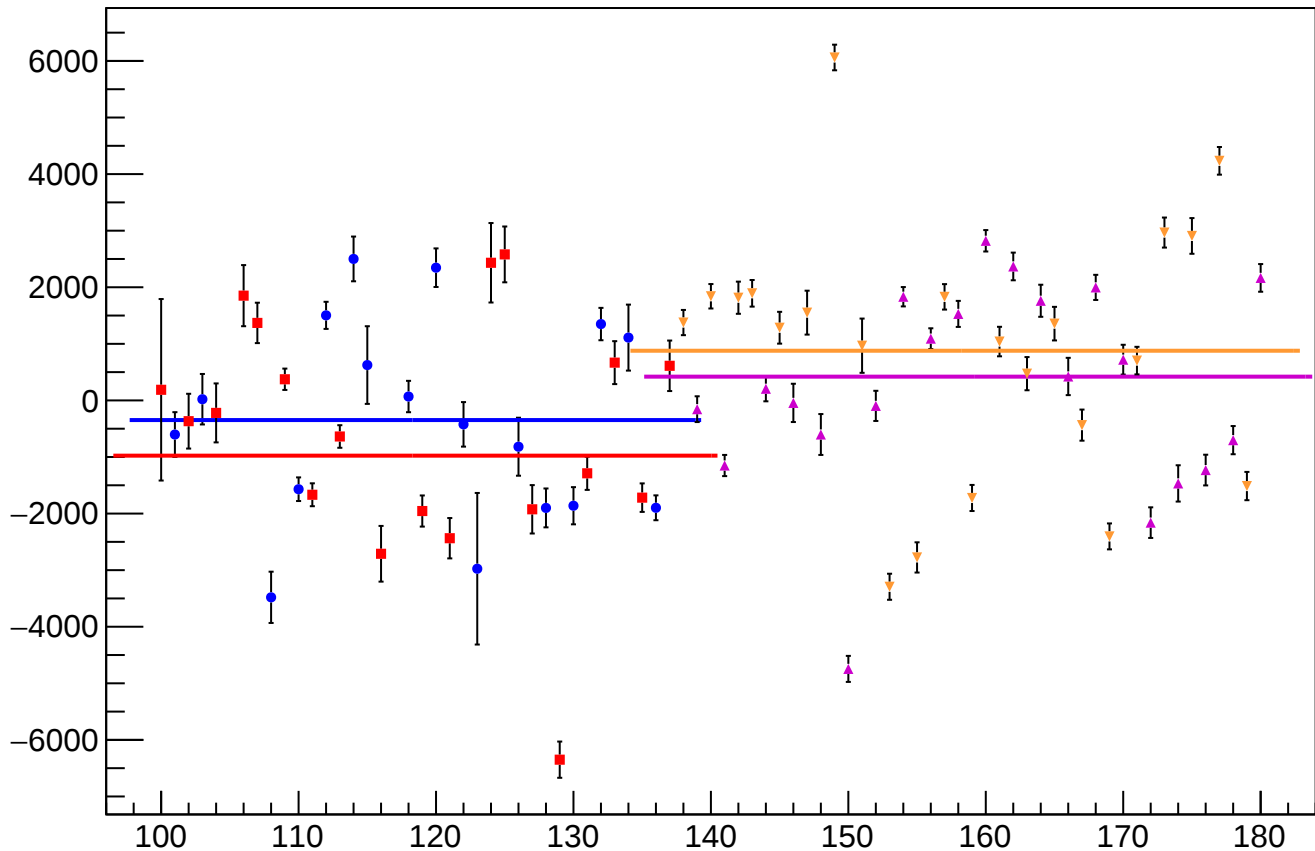
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 204.636+/-0.031 χ^2/NDF : 1863942.3/37

Out: 209.426+/-0.032 χ^2/NDF : 2357239.4/40

All: 207.006+/-0.022 χ^2/NDF : 4232771.6/78

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 878.074 ± 55.017 χ^2/NDF : 1859.8/21

Right Out: -976.286 ± 73.889 χ^2/NDF : 585.7/18

Left In: 420.150 ± 51.910 χ^2/NDF : 1232.3/20

Left: 635.815 ± 37.756 χ^2/NDF : 3128.8/42

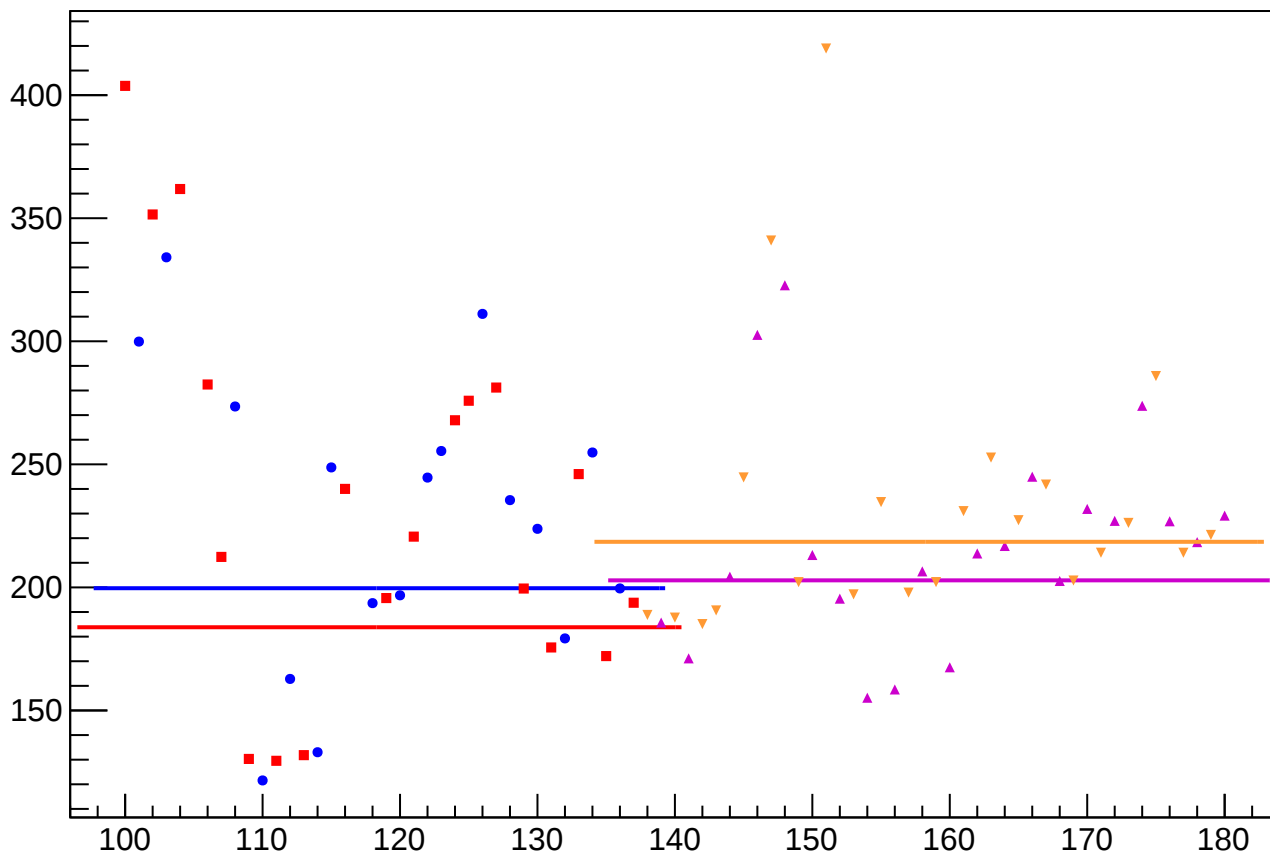
Right: -691.802 ± 54.685 χ^2/NDF : 1017.5/35

In: 197.975 ± 43.755 χ^2/NDF : 1694.7/37

Out: 216.675 ± 44.128 χ^2/NDF : 2850.7/40

All: 207.246 ± 31.070 χ^2/NDF : 4545.4/78

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 ± 0.058 $\chi^2/\text{NDF}: 943155.1/16$

Left Out: 218.523 ± 0.039 $\chi^2/\text{NDF}: 911399.4/21$

Right Out: 183.808 ± 0.052 $\chi^2/\text{NDF}: 1349625.1/18$

Left In: 202.864 ± 0.037 $\chi^2/\text{NDF}: 1037297.1/20$

Left: 210.239 ± 0.027 $\chi^2/\text{NDF}: 2034417.1/42$

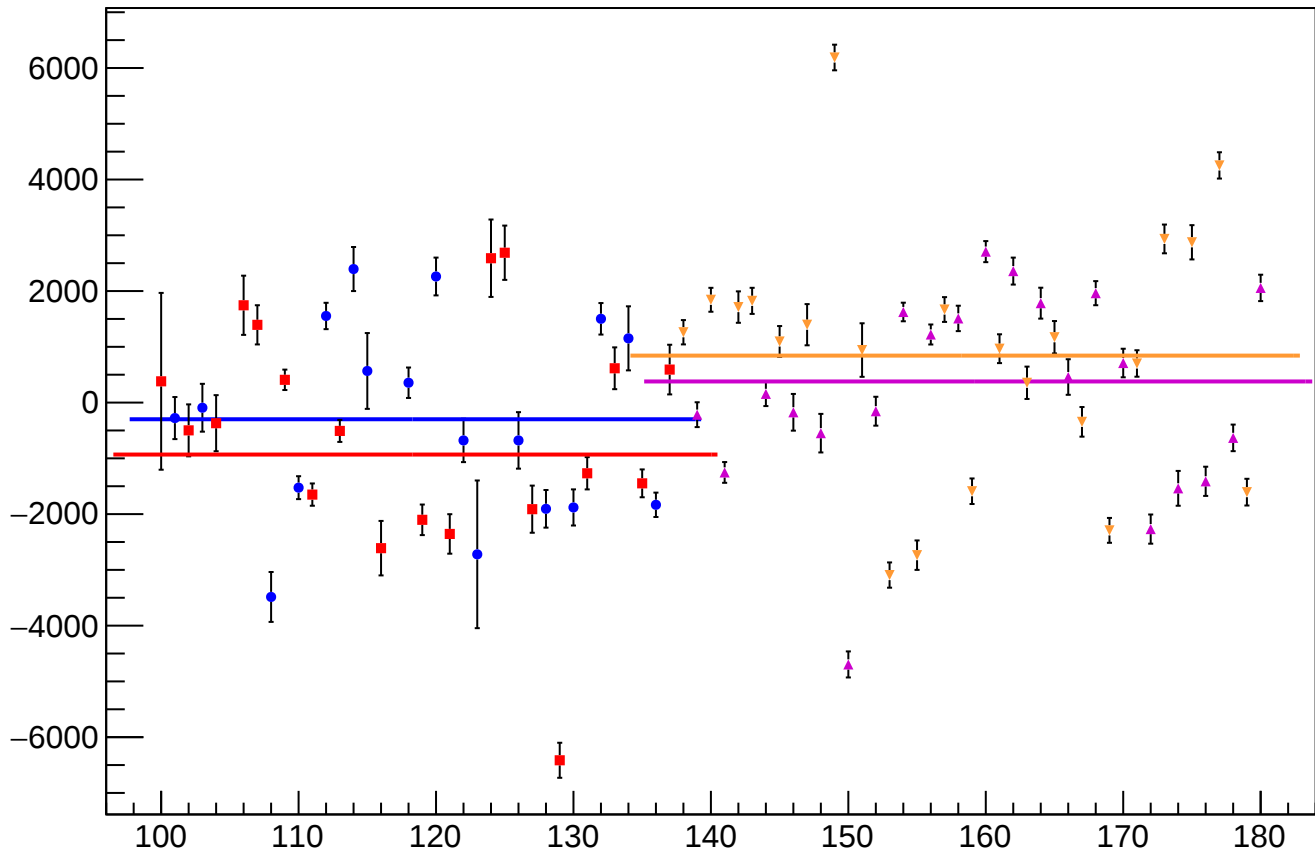
Right: 190.981 ± 0.039 $\chi^2/\text{NDF}: 2334457.4/35$

In: 201.939 ± 0.031 $\chi^2/\text{NDF}: 1982645.1/37$

Out: 206.141 ± 0.031 $\chi^2/\text{NDF}: 2545036.8/40$

All: 204.022 ± 0.022 $\chi^2/\text{NDF}: 4536829.2/78$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963±/80.162 χ^2/NDF : 406.6/16

Left Out: 842.433±/54.067 χ^2/NDF :1853.2/21

Right Out: -931.843±/72.751 χ^2/NDF : 614.8/18

Left In: 378.779±/50.859 χ^2/NDF :1228.5/20

Left: 596.446±/37.045 χ^2/NDF : 3120.7/42

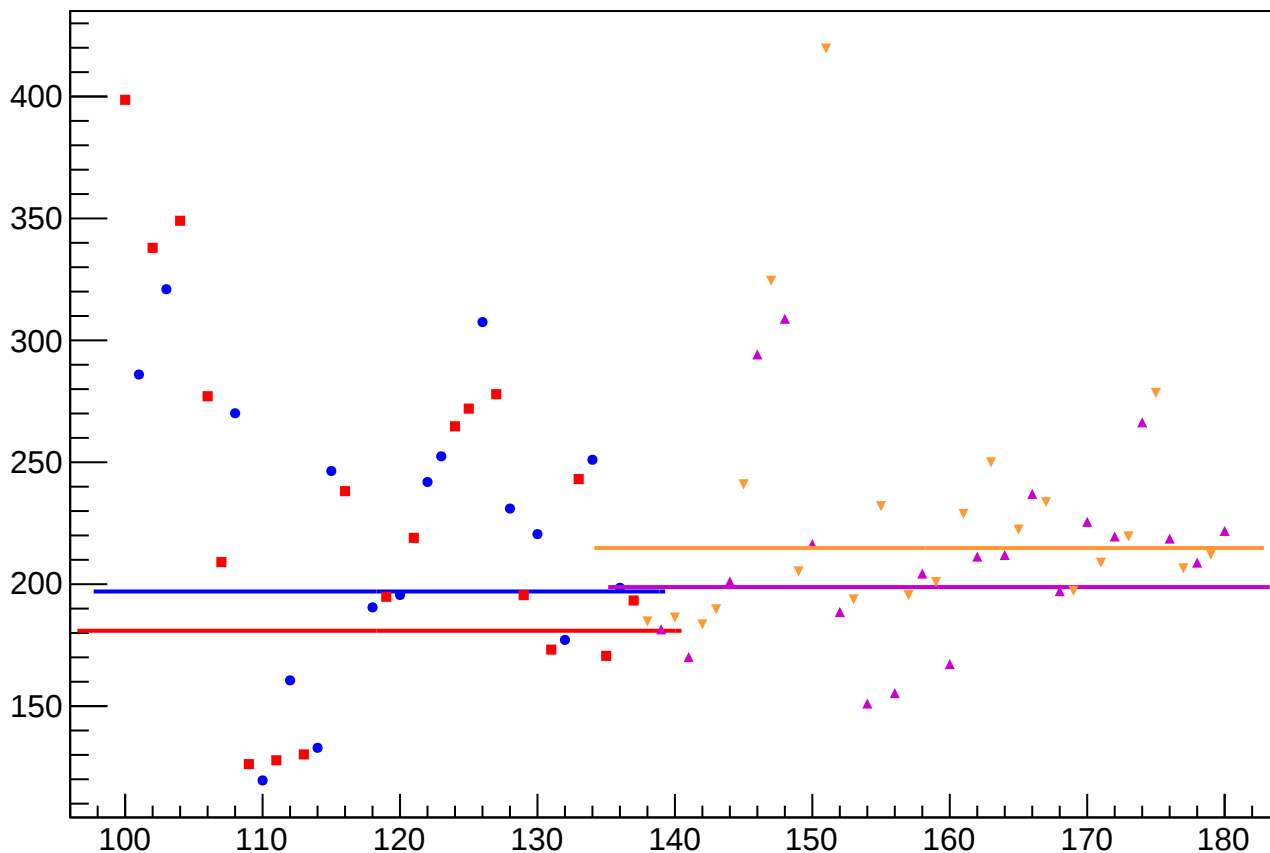
Right: -646.004±/53.873 χ^2/NDF : 1055.6/35

In: 184.263±/42.945 χ^2/NDF :1686.1/37

Out: 211.143±/43.395 χ^2/NDF :2851.1/40

All: 197.563±/30.525 χ^2/NDF : 4537.4/78

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 214.831+/-0.038 χ^2/NDF :880272.8/21

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 198.832+/-0.036 χ^2/NDF :984401.4/20

Left: 206.343+/-0.026 χ^2/NDF : 1957587.8/42

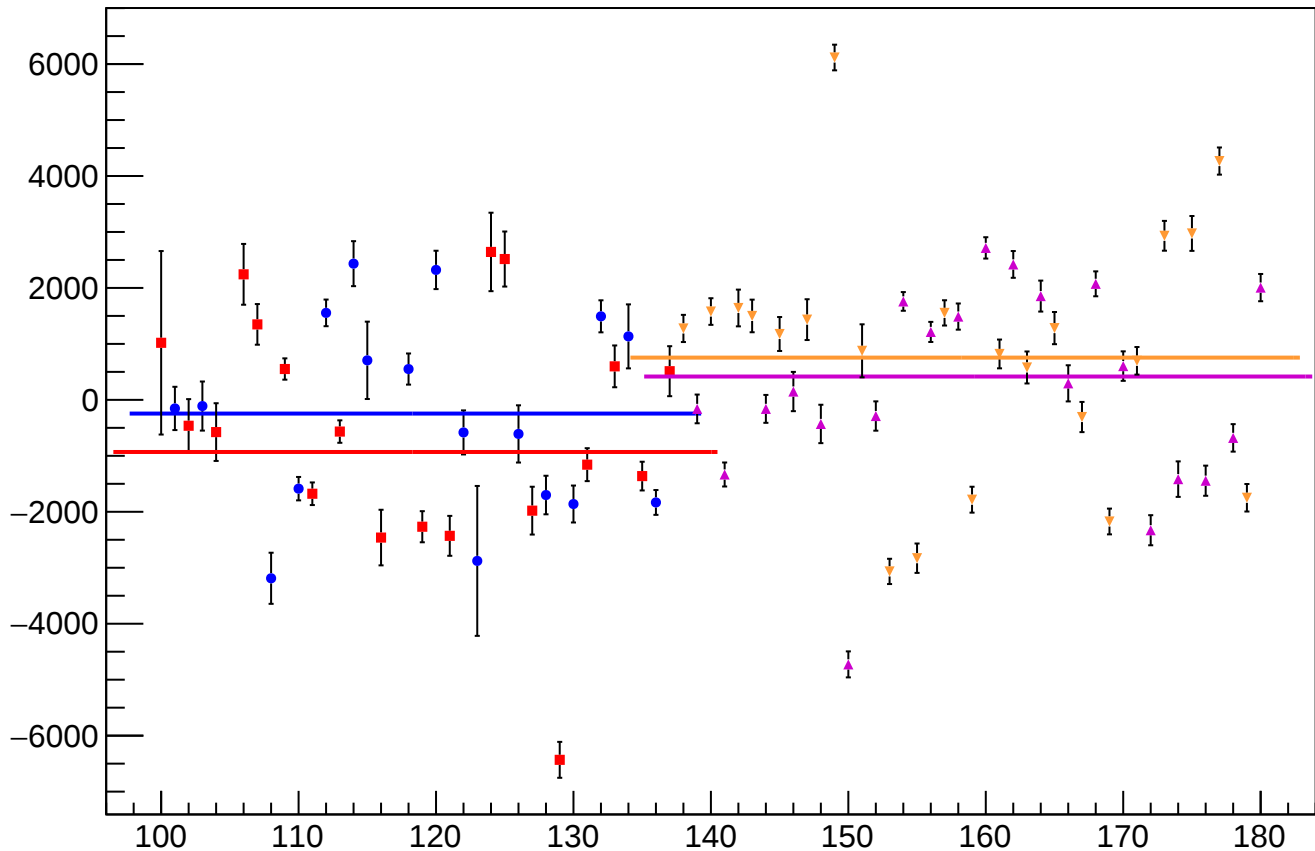
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 198.310+/-0.030 χ^2/NDF :1897058.9/37

Out: 202.761+/-0.031 χ^2/NDF :2506126.2/40

All: 200.512+/-0.022 χ^2/NDF : 4413812.7/78

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 $\pm$ 81.395 χ^2/NDF : 391.4/16

Left Out: 755.057 $\pm$ 56.212 χ^2/NDF : 1799.9/21

Right Out: -931.272 $\pm$ 74.206 χ^2/NDF : 609.7/18

Left In: 416.953 $\pm$ 52.626 χ^2/NDF : 1232.4/20

Left: 574.879 $\pm$ 38.417 χ^2/NDF : 3051.6/42

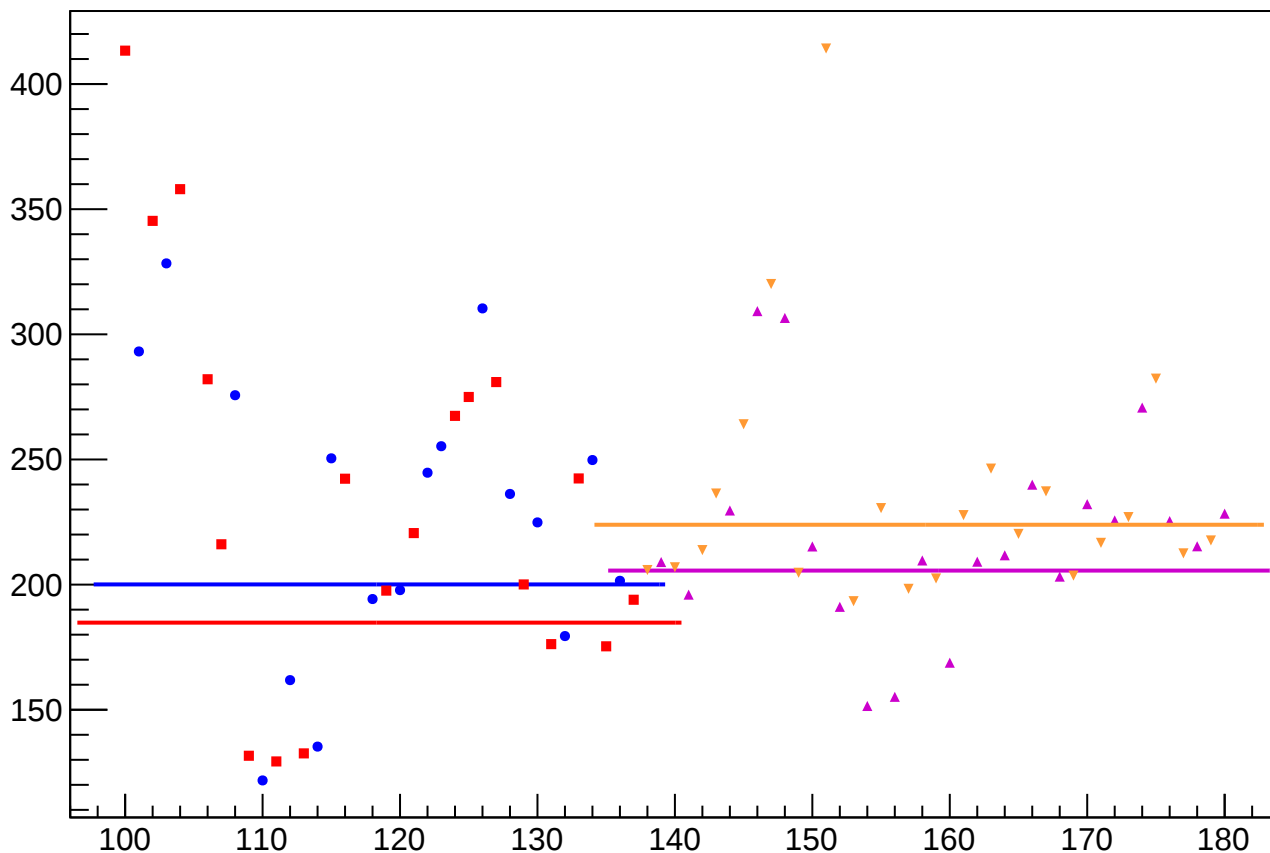
Right: -619.742 $\pm$ 54.837 χ^2/NDF : 1040.0/35

In: 221.833 $\pm$ 44.194 χ^2/NDF : 1670.5/37

Out: 140.213 $\pm$ 44.807 χ^2/NDF : 2737.8/40

All: 181.586 $\pm$ 31.464 χ^2/NDF : 4409.9/78

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 223.919+/-0.040 χ^2/NDF : 730344.4/21

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 205.609+/-0.037 χ^2/NDF : 994438.5/20

Left: 214.161+/-0.027 χ^2/NDF : 1837875.0/42

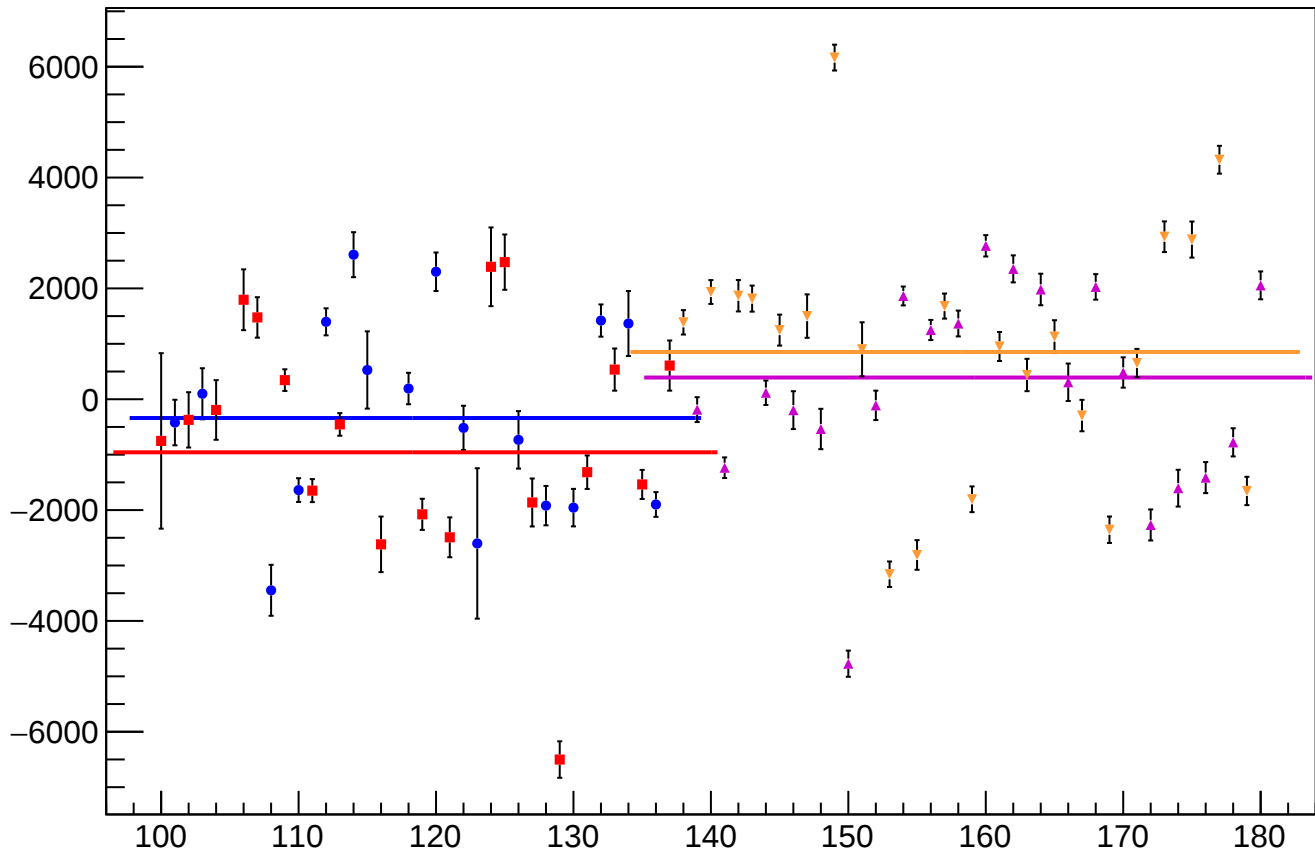
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 203.978+/-0.031 χ^2/NDF : 1919259.1/37

Out: 209.659+/-0.032 χ^2/NDF : 2401647.6/40

All: 206.779+/-0.022 χ^2/NDF : 4337200.5/78

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966+/-83.123 χ^2/NDF : 389.5/16

Left Out: 853.128+/-55.680 χ^2/NDF :1803.7/21

Right Out: -957.615+/-75.749 χ^2/NDF : 570.3/18

Left In: 391.736+/-52.461 χ^2/NDF :1220.4/20

Left: 608.713+/-38.183 χ^2/NDF : 3060.5/42

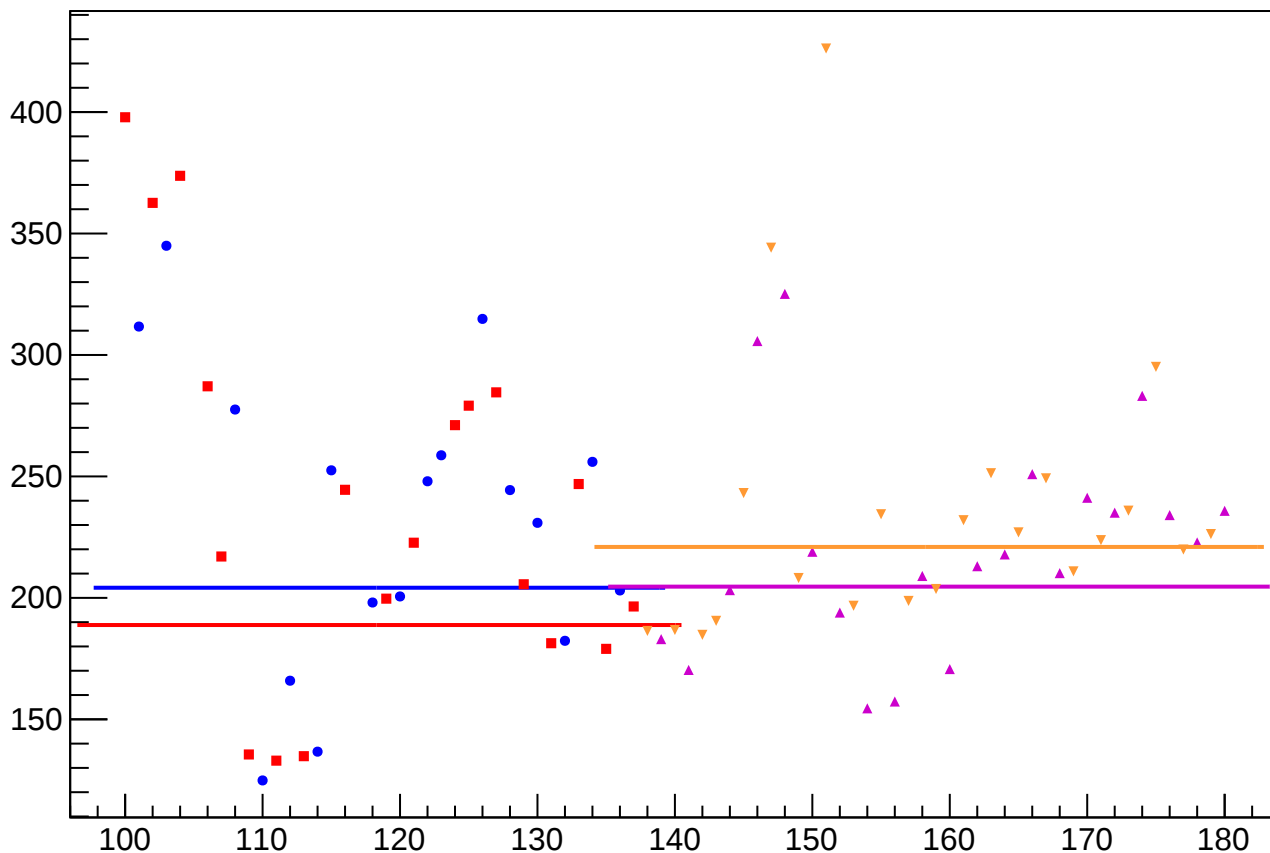
Right: -676.943+/-55.988 χ^2/NDF : 990.0/35

In: 183.588+/-44.364 χ^2/NDF :1665.1/37

Out: 217.956+/-44.863 χ^2/NDF :2745.0/40

All: 200.580+/-31.545 χ^2/NDF : 4410.4/78

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 220.970+/-0.039 χ^2/NDF : 954531.1/21

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 204.630+/-0.037 χ^2/NDF : 1142066.1/20

Left: 212.314+/-0.027 χ^2/NDF : 2187844.1/42

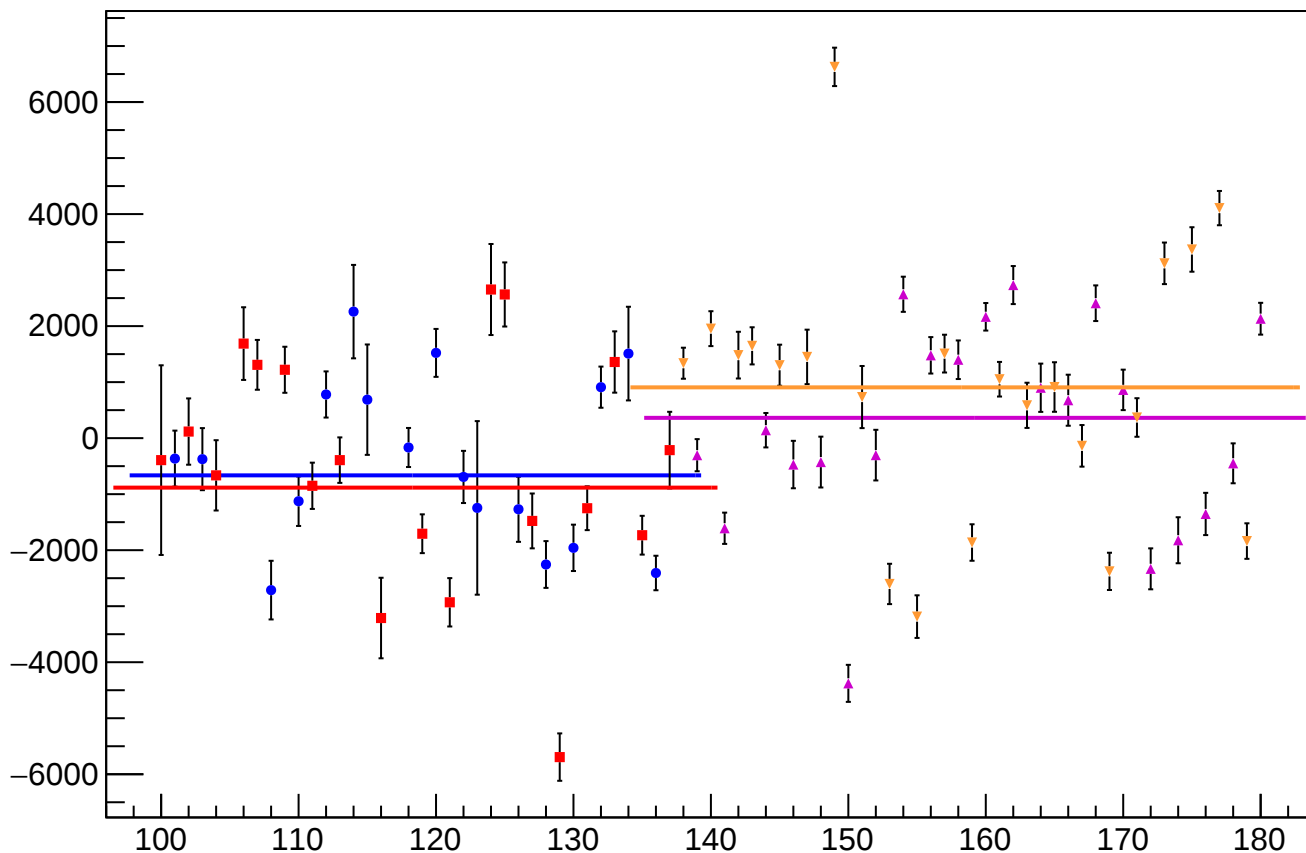
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 204.500+/-0.031 χ^2/NDF : 2089547.4/37

Out: 209.693+/-0.032 χ^2/NDF : 2503313.9/40

All: 207.068+/-0.022 χ^2/NDF : 4606407.5/78

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 906.542+/-75.563 χ^2/NDF : 954.8/21

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 362.455+/-74.171 χ^2/NDF : 636.0/20

Left: 629.439+/-52.932 χ^2/NDF : 1617.3/42

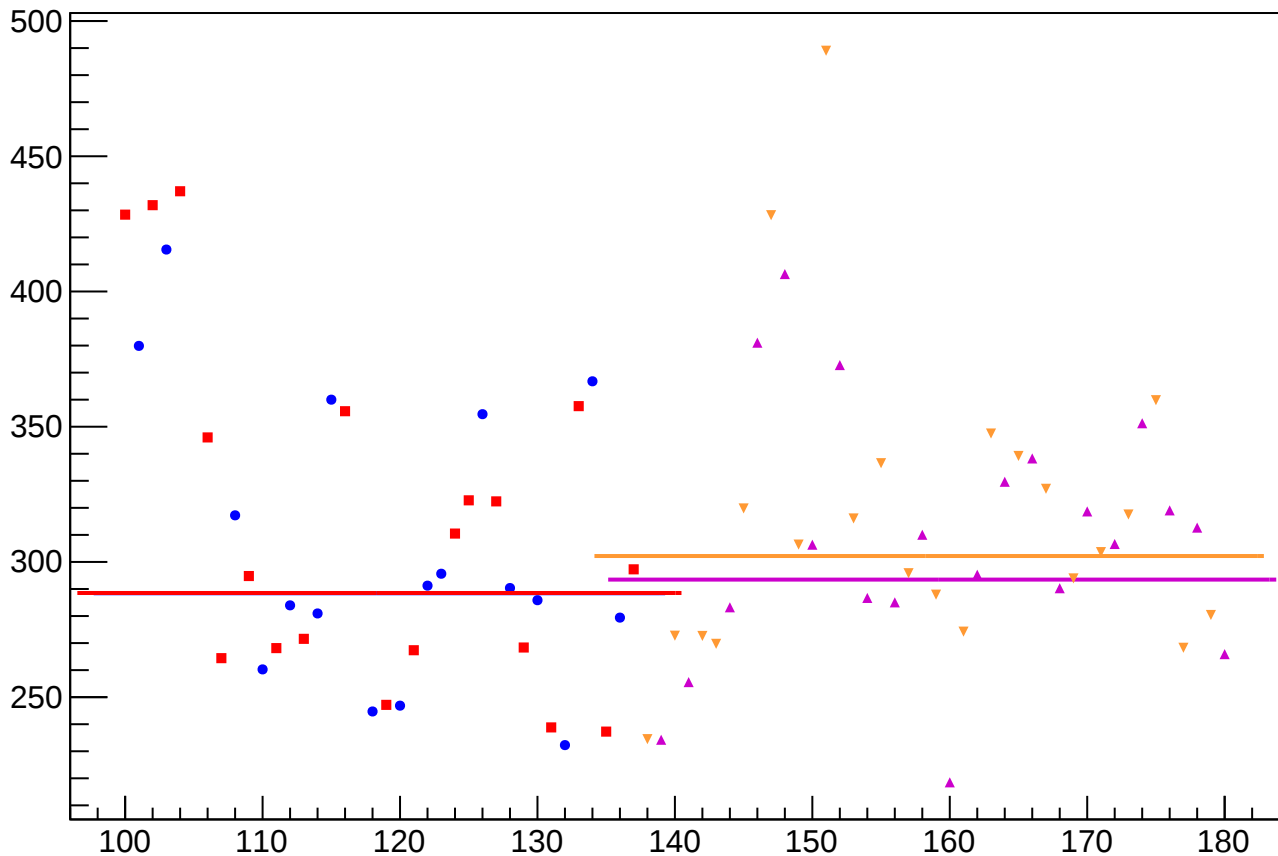
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: 56.869+/-62.162 χ^2/NDF : 847.4/37

Out: 338.893+/-62.441 χ^2/NDF : 1452.8/40

All: 197.250+/-44.053 χ^2/NDF : 2310.5/78

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 ± 0.081 $\chi^2/\text{NDF}: 339820.0/16$

Left Out: 302.189 ± 0.053 $\chi^2/\text{NDF}: 702005.8/21$

Right Out: 288.522 ± 0.078 $\chi^2/\text{NDF}: 455410.1/18$

Left In: 293.471 ± 0.052 $\chi^2/\text{NDF}: 710974.7/20$

Left: 297.749 ± 0.037 $\chi^2/\text{NDF}: 1426541.0/42$

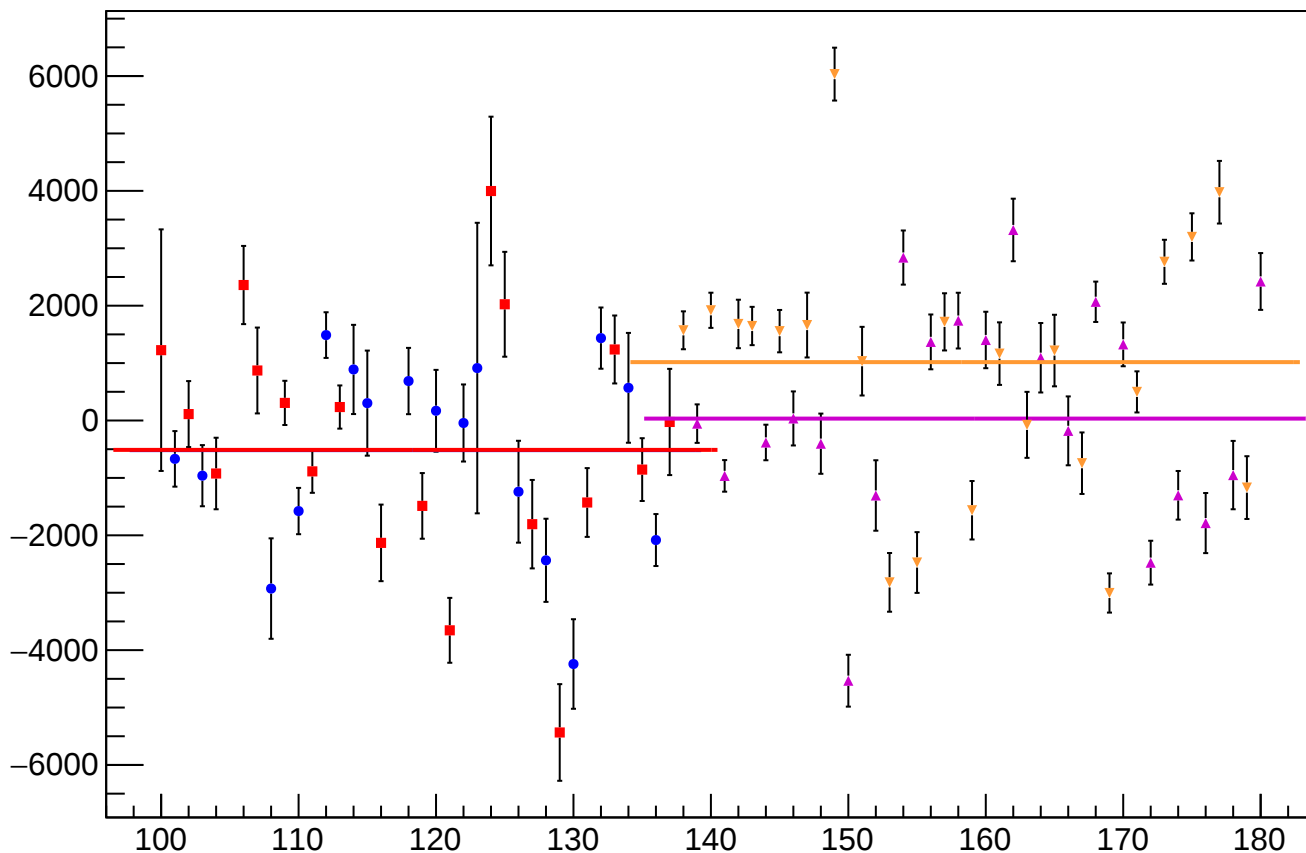
Right: 288.476 ± 0.056 $\chi^2/\text{NDF}: 795230.9/35$

In: 291.970 ± 0.044 $\chi^2/\text{NDF}: 1053546.0/37$

Out: 297.855 ± 0.044 $\chi^2/\text{NDF}: 1178168.1/40$

All: 294.899 ± 0.031 $\chi^2/\text{NDF}: 2240635.4/78$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894±147.326 χ^2/NDF : 108.0/16

Left Out: 1016.884±92.870 χ^2/NDF : 516.6/21

Right Out: -511.851±135.798 χ^2/NDF : 141.3/18

Left In: 33.163±94.353 χ^2/NDF : 361.8/20

Left: 532.811±66.187 χ^2/NDF : 933.7/42

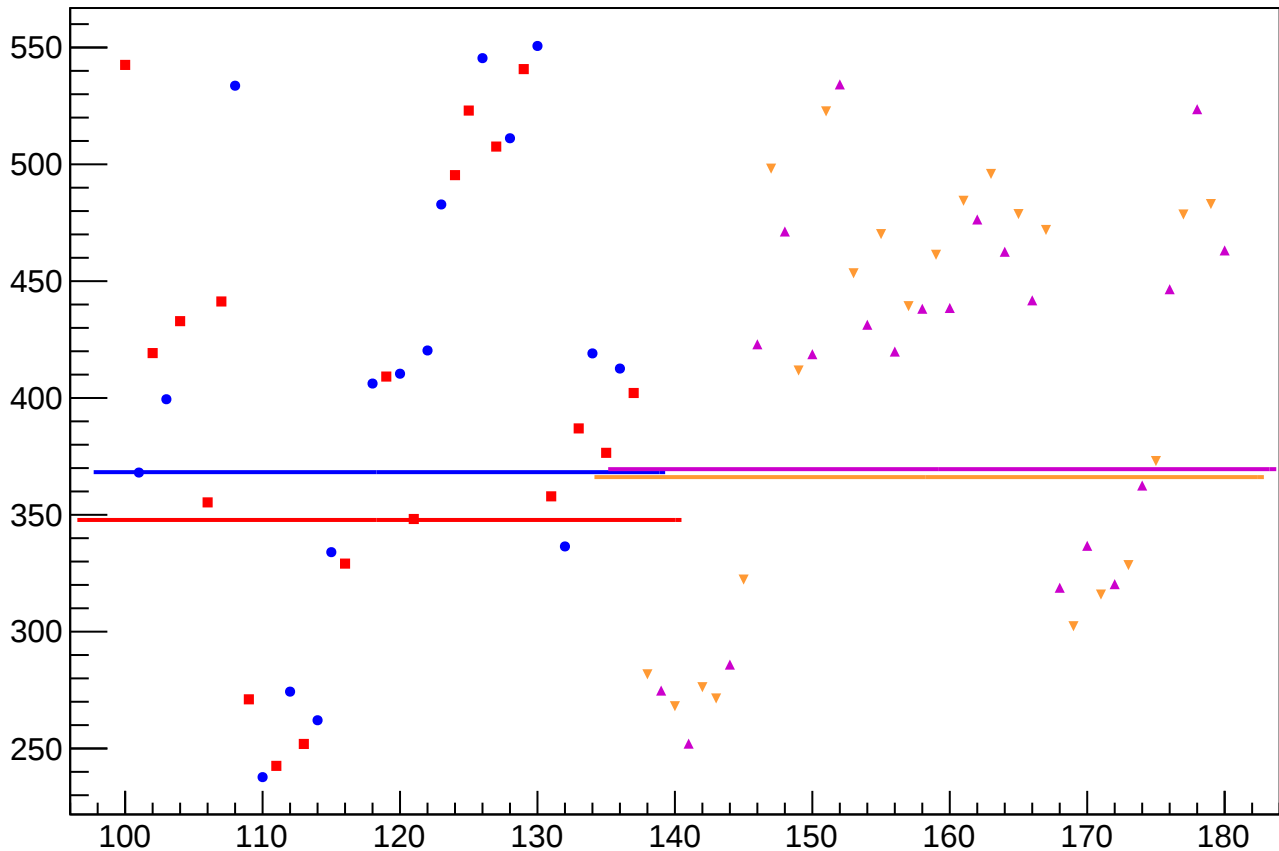
Right: -513.708±99.851 χ^2/NDF : 249.3/35

In: -126.534±79.455 χ^2/NDF : 479.7/37

Out: 529.736±76.658 χ^2/NDF : 744.3/40

All: 213.354±55.168 χ^2/NDF : 1259.3/78

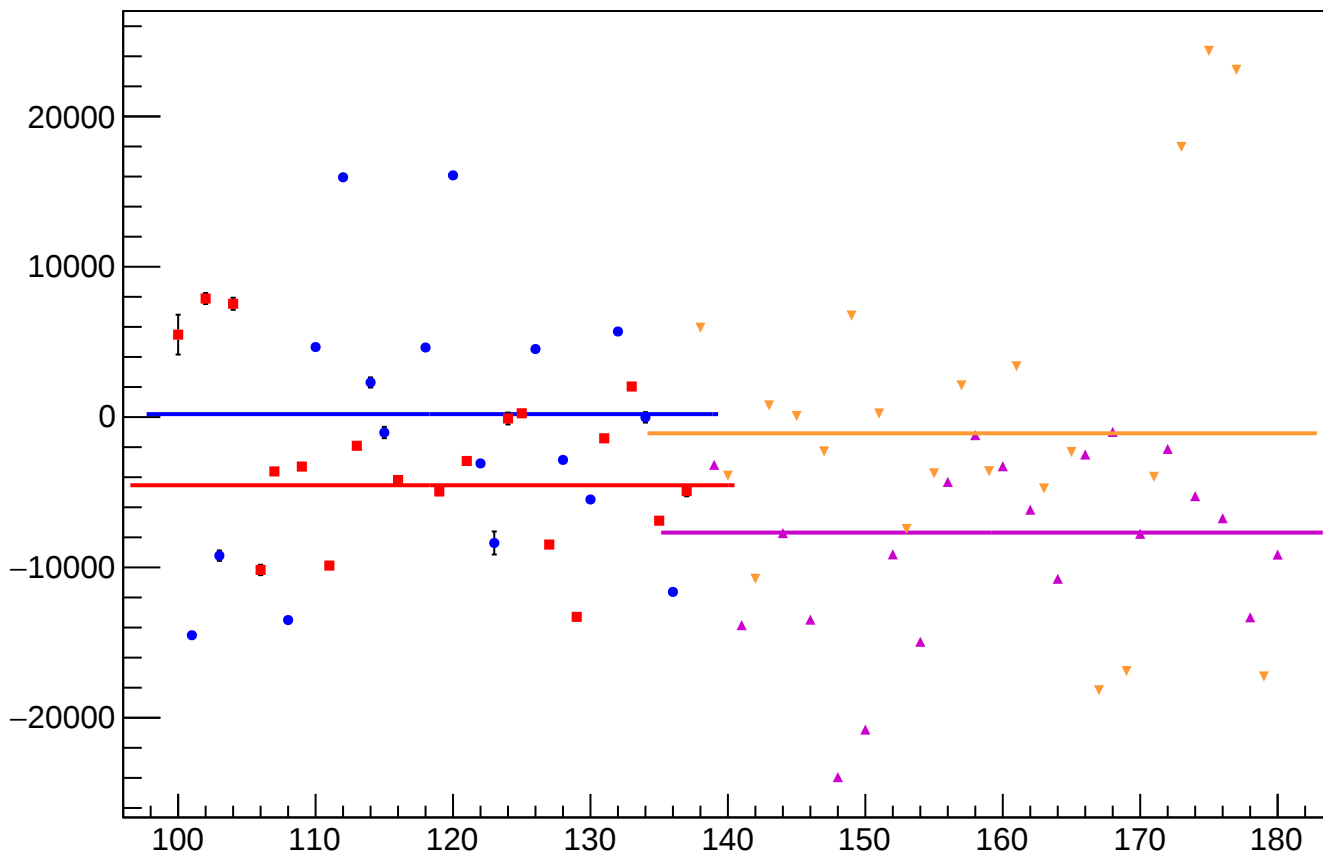
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264 $\pm$ 0.104 χ^2 /NDF: 770116.6/16
 Left Out: 366.143 $\pm$ 0.066 χ^2 /NDF: 1774979.5/21
 Right Out: 347.802 $\pm$ 0.096 χ^2 /NDF: 821862.5/18
 Left In: 369.545 $\pm$ 0.067 χ^2 /NDF: 1566950.7/20

Left: 367.817 $\pm$ 0.047 χ^2 /NDF: 3343251.1/42
 Right: 357.201 $\pm$ 0.071 χ^2 /NDF: 1612837.5/35
 In: 369.173 $\pm$ 0.056 χ^2 /NDF: 2337174.5/37
 Out: 360.298 $\pm$ 0.054 χ^2 /NDF: 2621698.2/40
 All: 364.577 $\pm$ 0.039 χ^2 /NDF: 4971793.8/78

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1079.039 ± 43.777 $\chi^2/\text{NDF}: 56246.0/21$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7683.382 ± 45.082 $\chi^2/\text{NDF}: 17766.3/20$

Left: -4284.236 ± 31.406 $\chi^2/\text{NDF}: 85058.1/42$

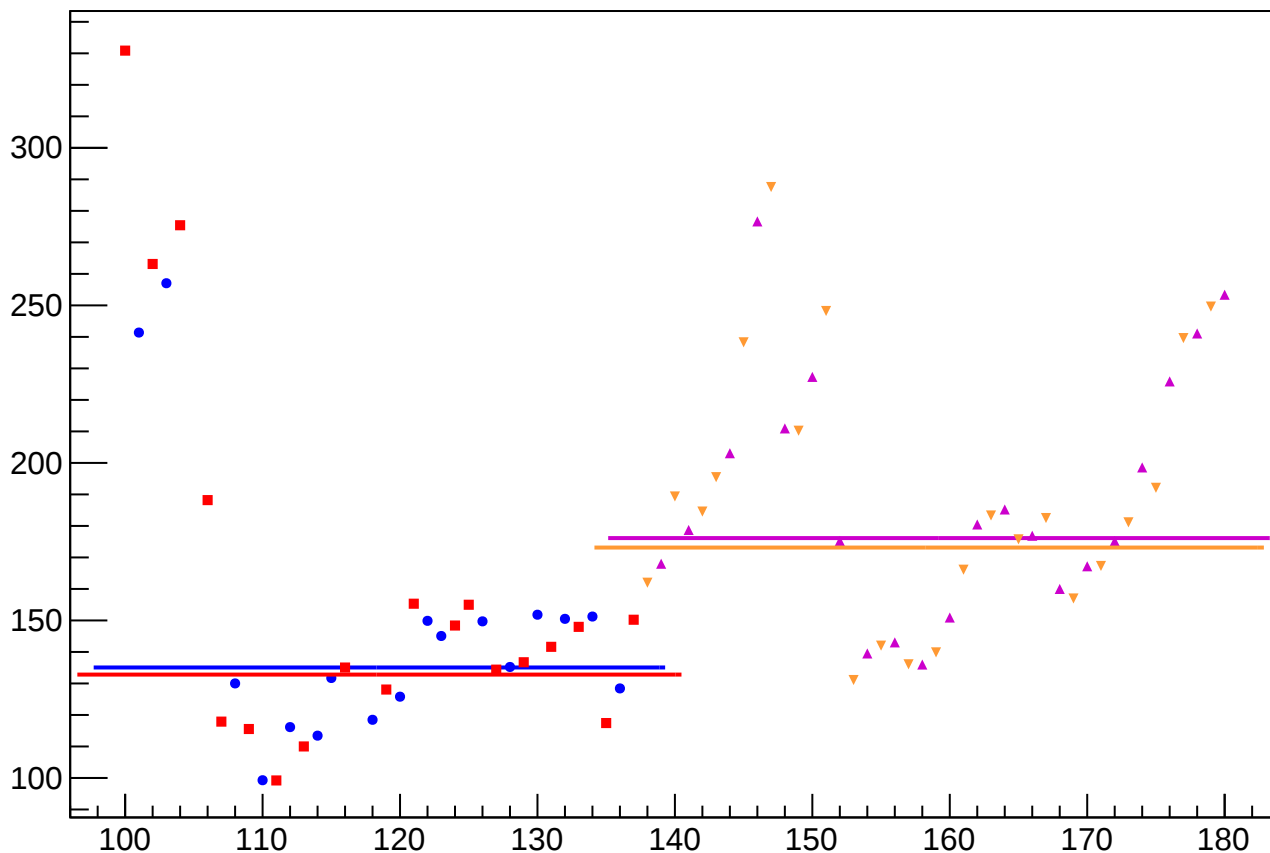
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4502.626 ± 34.814 $\chi^2/\text{NDF}: 60757.7/37$

Out: -2497.336 ± 33.612 $\chi^2/\text{NDF}: 66280.3/40$

All: -3464.745 ± 24.181 $\chi^2/\text{NDF}: 128755.2/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 173.137 $\pm$ 0.031 χ^2 /NDF:1332023.5/21

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 176.141 $\pm$ 0.032 χ^2 /NDF:1145624.0/20

Left: 174.595 $\pm$ 0.022 χ^2 /NDF: 2482217.6/42

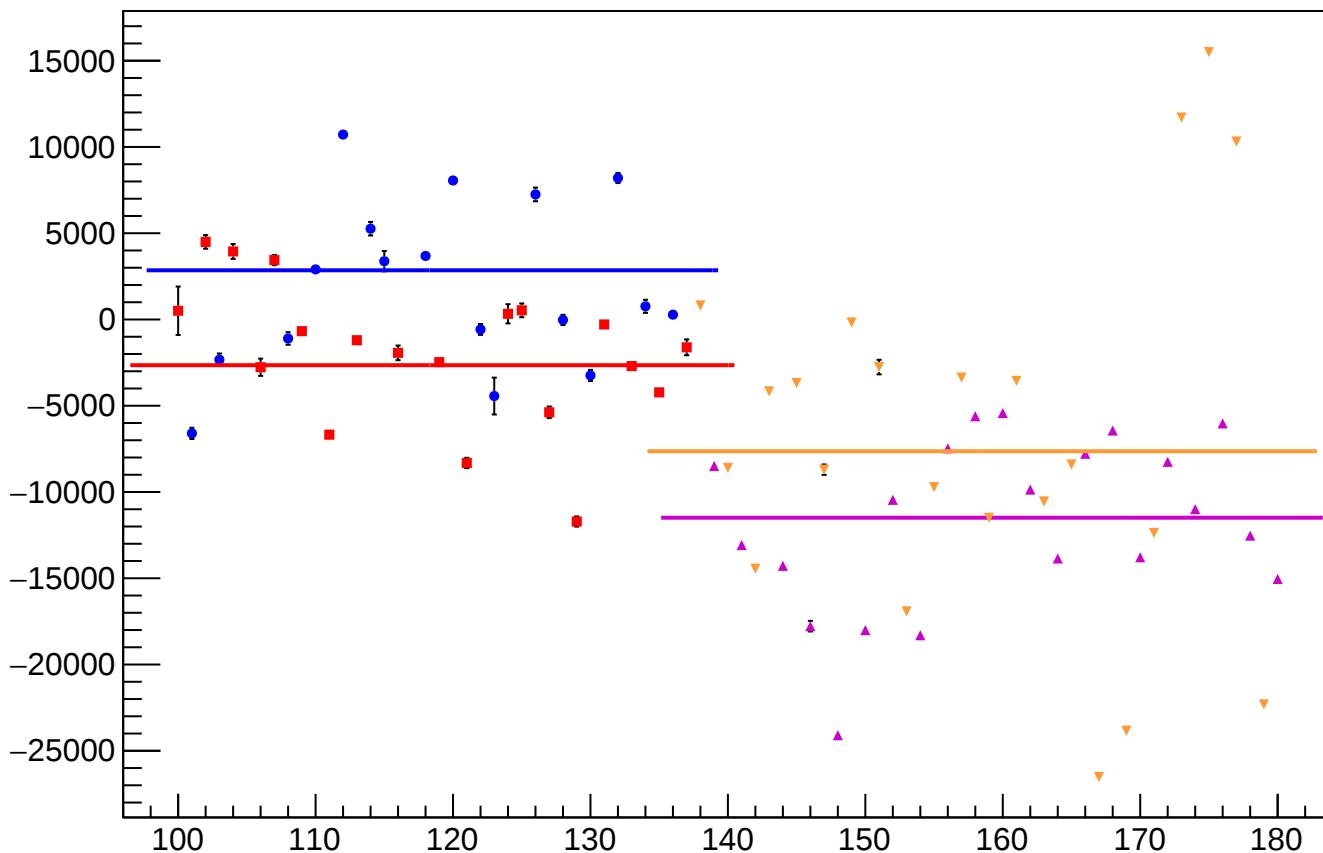
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 159.564 $\pm$ 0.025 χ^2 /NDF:2474272.1/37

Out: 156.586 $\pm$ 0.024 χ^2 /NDF:2859678.9/40

All: 158.023 $\pm$ 0.017 χ^2 /NDF: 5341526.6/78

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7636.273+/-48.312 χ^2/NDF : 49025.2/21

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11489.213+/-45.217 χ^2/NDF : 11603.3/20

Left: -9690.090+/-33.013 χ^2/NDF : 64018.9/42

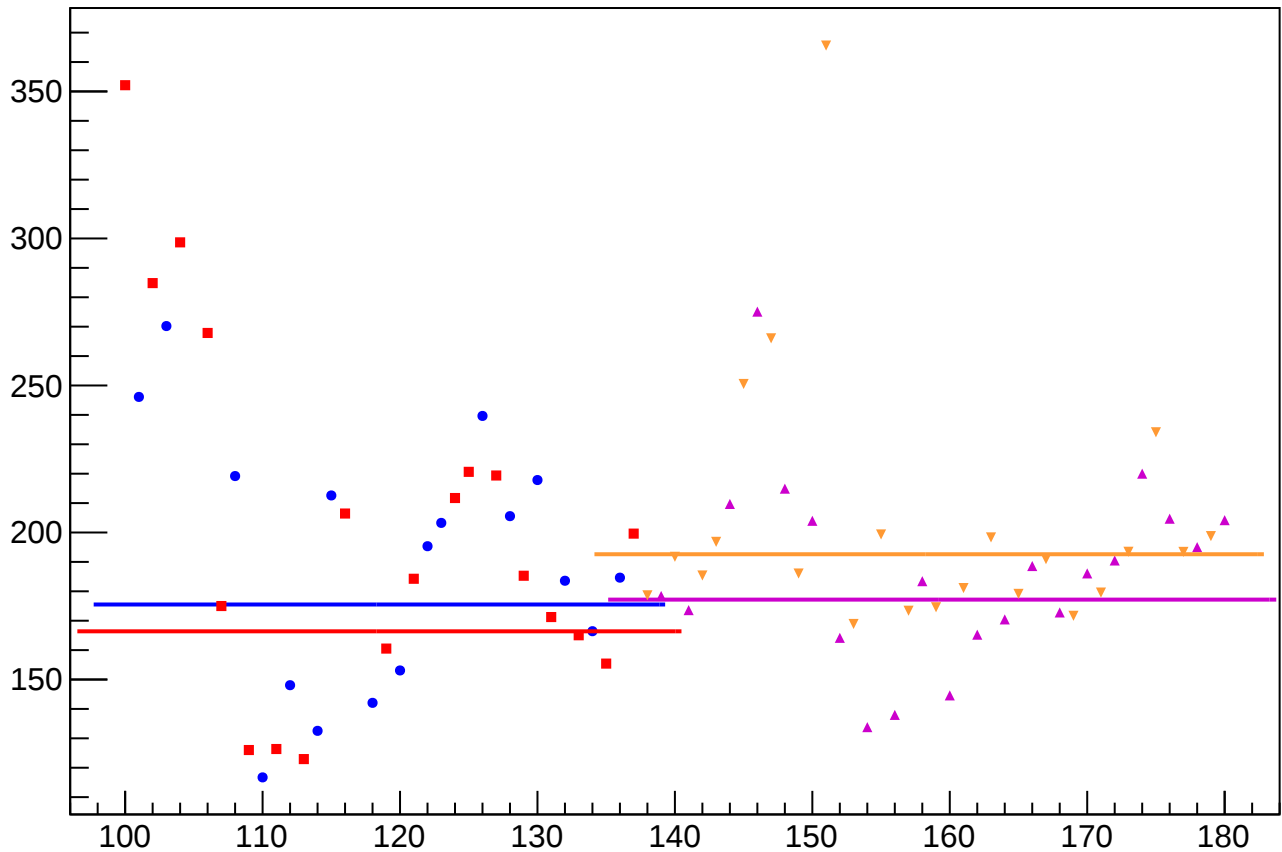
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -7330.635+/-38.101 χ^2/NDF : 44949.7/37

Out: -5887.089+/-38.928 χ^2/NDF : 55938.4/40

All: -6624.359+/-27.229 χ^2/NDF : 101590.5/77

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.607+/-0.034 χ^2/NDF : 712704.7/21

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 177.174+/-0.032 χ^2/NDF : 855090.3/20

Left: 184.380+/-0.023 χ^2/NDF : 1676592.0/42

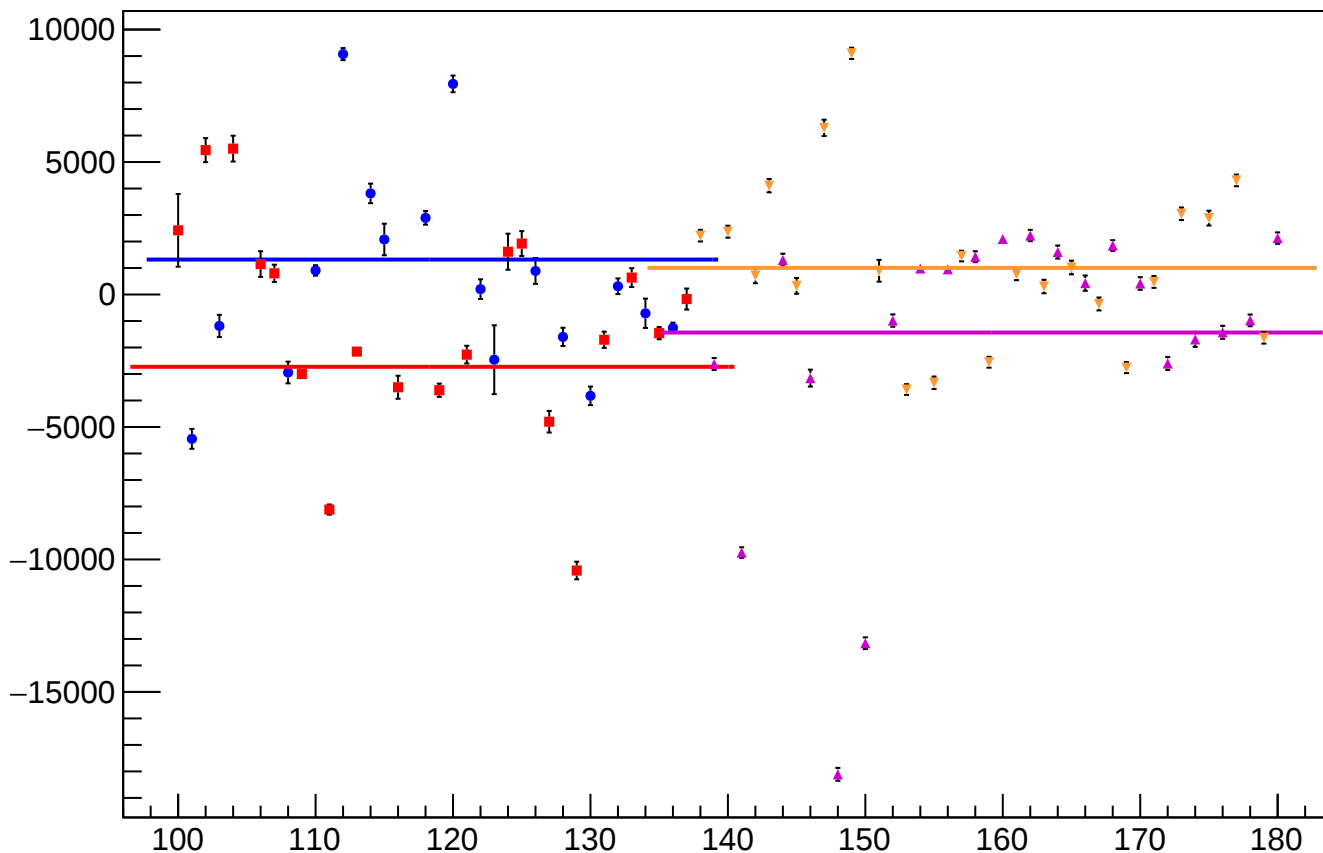
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 176.692+/-0.027 χ^2/NDF : 1545513.7/37

Out: 183.413+/-0.028 χ^2/NDF : 1848769.4/40

All: 179.980+/-0.019 χ^2/NDF : 3424724.9/78

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1005.570+/-50.712 χ^2/NDF : 3970.3/21

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1434.946+/-47.299 χ^2/NDF : 11595.1/20

Left: -299.578+/-34.589 χ^2/NDF : 16804.0/42

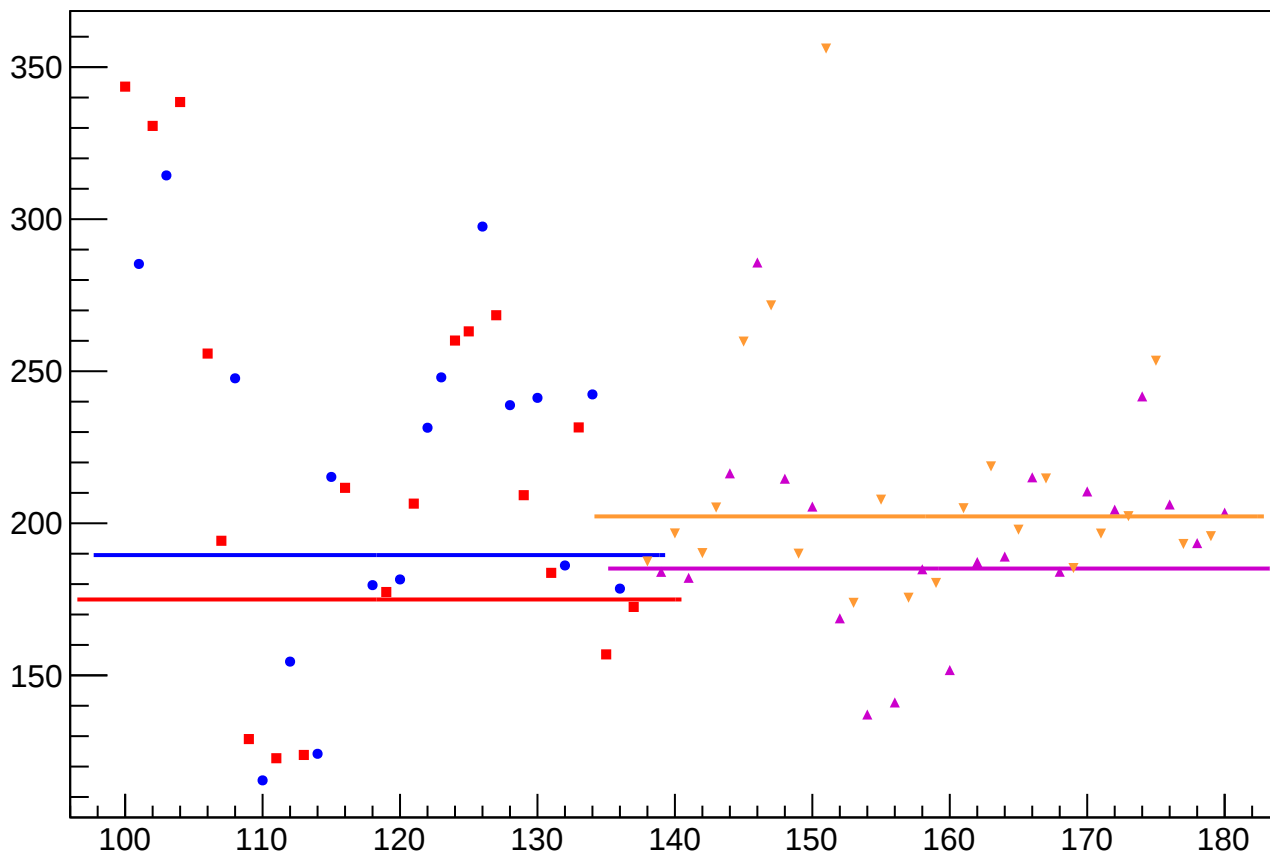
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -682.557+/-40.323 χ^2/NDF : 15188.4/37

Out: -278.717+/-41.073 χ^2/NDF : 8330.7/40

All: -484.359+/-28.774 χ^2/NDF : 23568.2/78

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.261 $\pm$ 0.036 χ^2 /NDF: 674679.9/21

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 185.117 $\pm$ 0.033 χ^2 /NDF: 882704.7/20

Left: 193.093 $\pm$ 0.024 χ^2 /NDF: 1679635.2/42

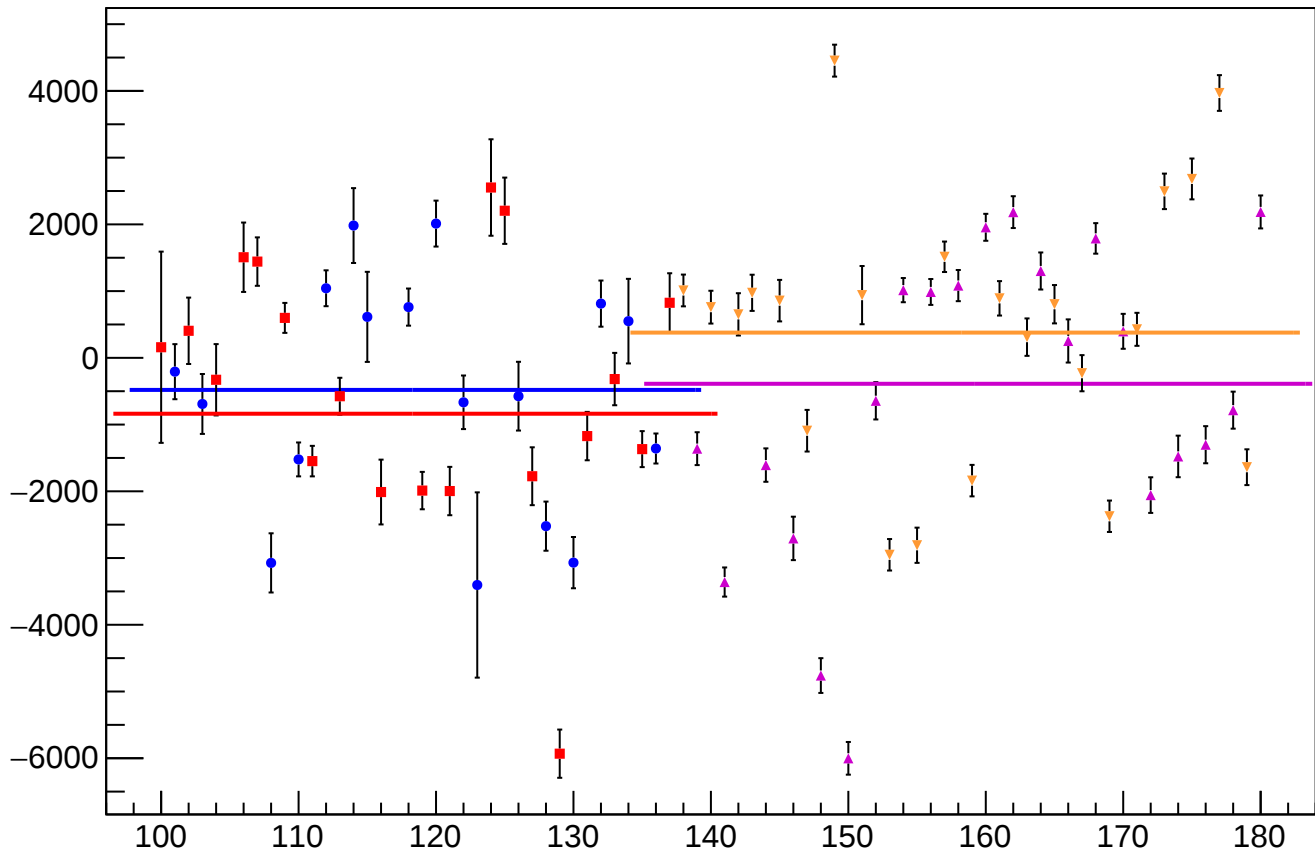
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 186.326 $\pm$ 0.029 χ^2 /NDF: 1868237.8/37

Out: 192.864 $\pm$ 0.029 χ^2 /NDF: 2171432.6/40

All: 189.535 $\pm$ 0.020 χ^2 /NDF: 4065472.8/78

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 378.387±/56.693 χ^2/NDF :1293.7/21

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -388.764±/53.656 χ^2/NDF :1797.0/20

Left: -26.284±/38.970 χ^2/NDF : 3187.3/42

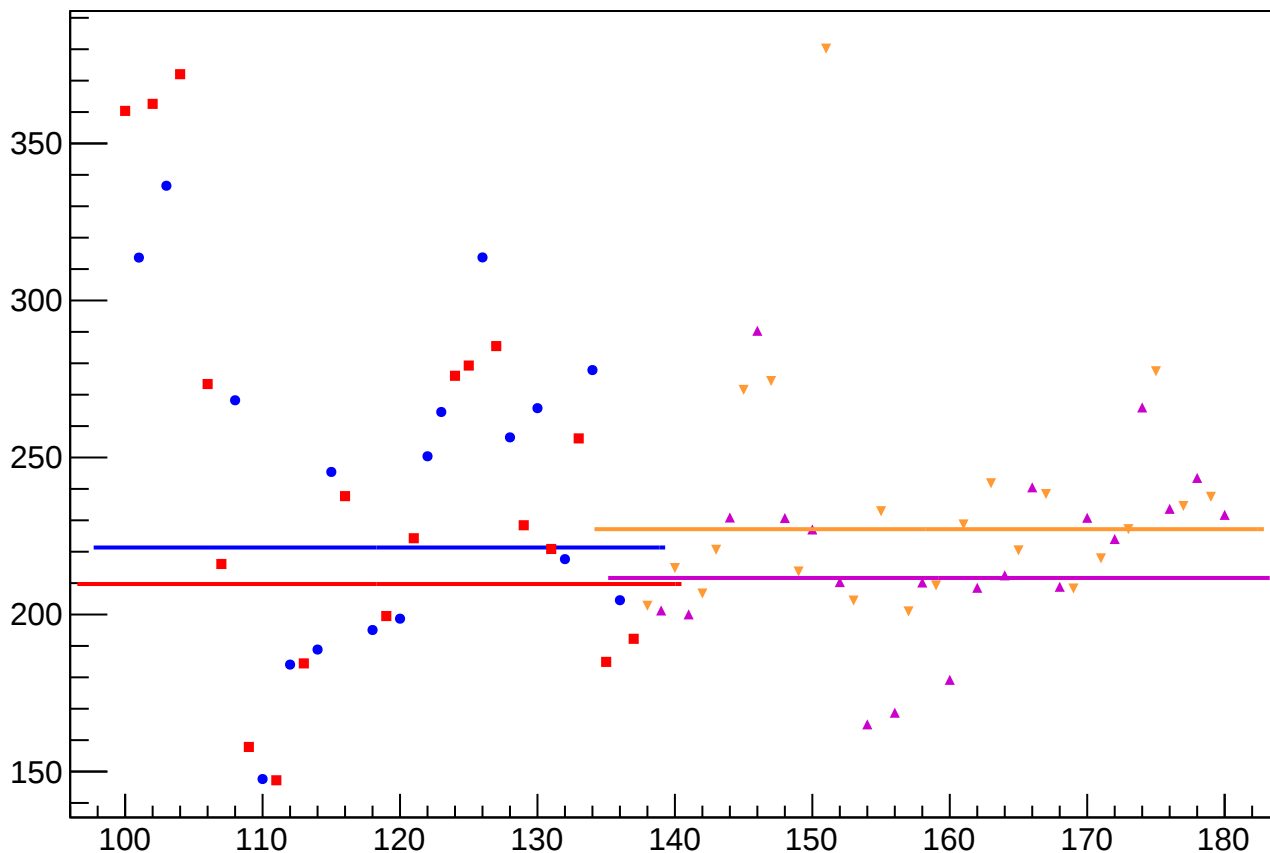
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -413.385±/45.902 χ^2/NDF :2088.5/37

Out: -13.254±/46.678 χ^2/NDF :1877.1/40

All: -216.672±/32.728 χ^2/NDF : 4003.0/78

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2/NDF : 645688.1/16

Left Out: 227.180 $\pm$ 0.040 χ^2/NDF : 515843.3/21

Right Out: 209.717 $\pm$ 0.058 χ^2/NDF : 883917.7/18

Left In: 211.642 $\pm$ 0.038 χ^2/NDF : 582988.2/20

Left: 218.984 $\pm$ 0.028 χ^2/NDF : 1178085.0/42

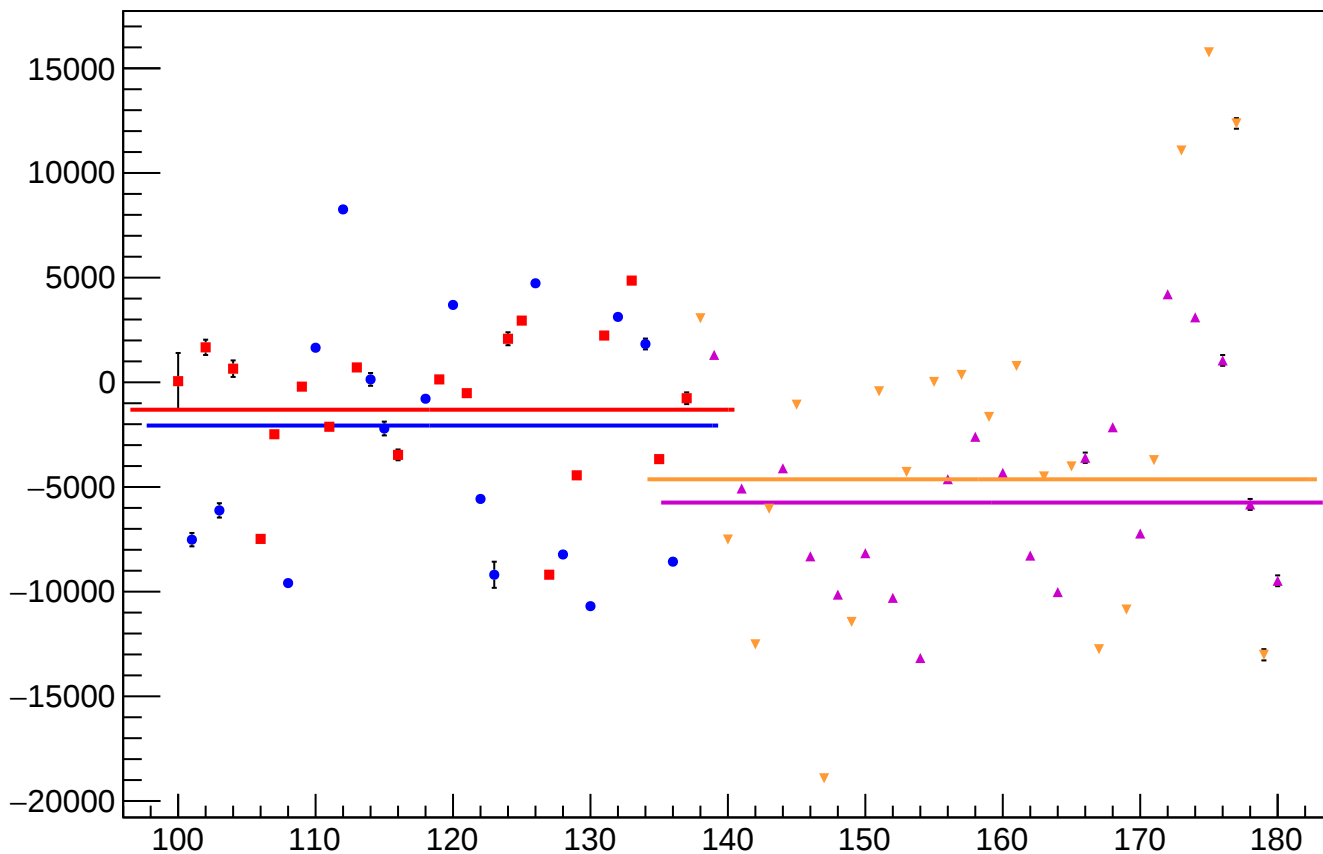
Right: 215.095 $\pm$ 0.043 χ^2/NDF : 1548093.3/35

In: 214.243 $\pm$ 0.032 χ^2/NDF : 1246205.3/37

Out: 221.555 $\pm$ 0.033 χ^2/NDF : 1460892.7/40

All: 217.838 $\pm$ 0.023 χ^2/NDF : 2732048.1/78

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4633.415 $\pm$ 34.509 χ^2/NDF : 50432.1/21

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5744.333 $\pm$ 35.415 χ^2/NDF : 14303.9/20

Left: -5174.480 $\pm$ 24.716 χ^2/NDF : 65240.7/42

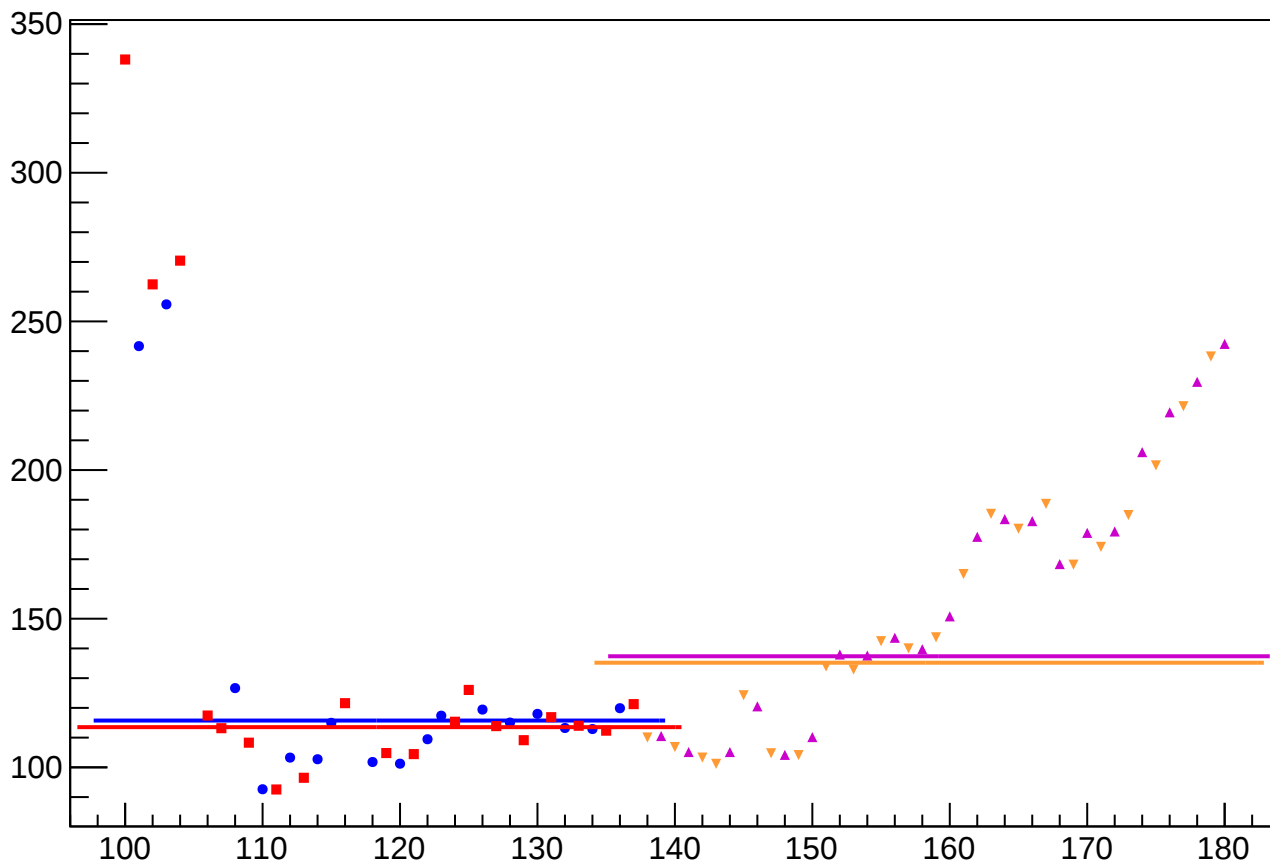
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4423.468 $\pm$ 28.354 χ^2/NDF : 34711.7/37

Out: -3402.190 $\pm$ 27.384 χ^2/NDF : 59763.9/40

All: -3895.062 $\pm$ 19.698 χ^2/NDF : 95146.9/78

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 135.194+/-0.024 χ^2/NDF : 2006897.3/21

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 137.366+/-0.025 χ^2/NDF : 2080851.7/20

Left: 136.252+/-0.017 χ^2/NDF : 4091611.0/42

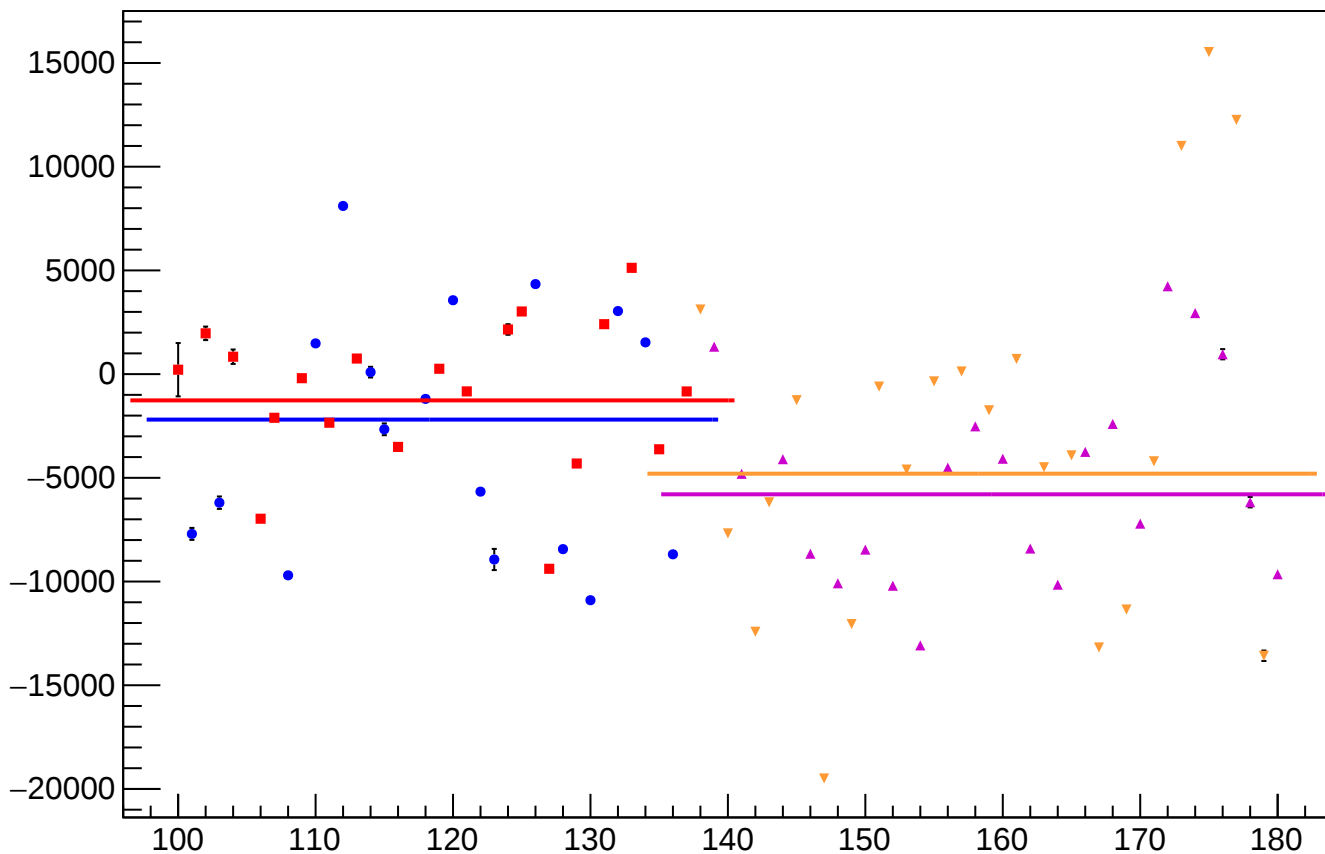
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 129.603+/-0.020 χ^2/NDF : 3092601.2/37

Out: 127.167+/-0.019 χ^2/NDF : 3095691.1/40

All: 128.343+/-0.014 χ^2/NDF : 6195924.6/78

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -4800.119 ± 31.337 $\chi^2/\text{NDF}: 59515.5/21$

Right Out: -1266.189 ± 38.048 $\chi^2/\text{NDF}: 8550.5/18$

Left In: -5794.955 ± 32.515 $\chi^2/\text{NDF}: 17154.1/20$

Left: -5279.186 ± 22.564 $\chi^2/\text{NDF}: 77154.9/42$

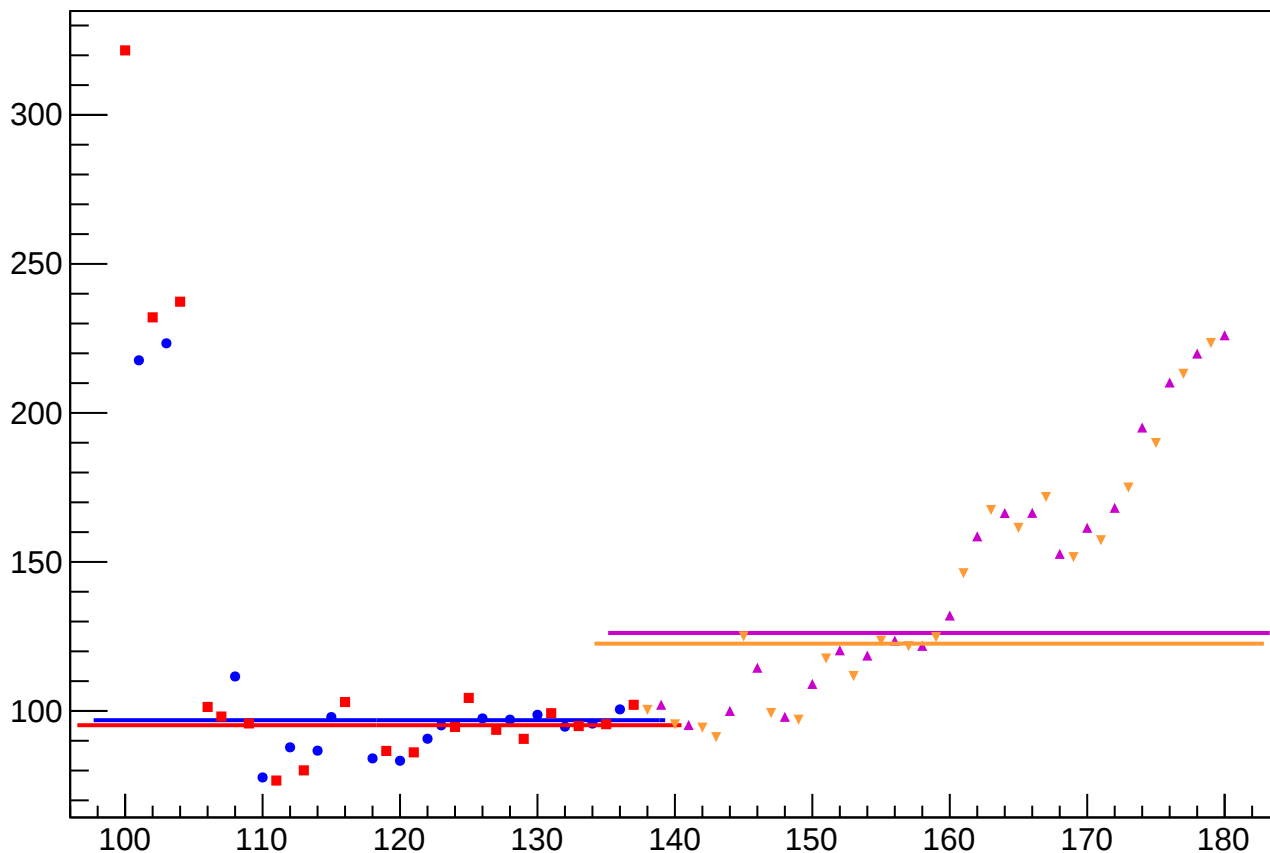
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4359.160 ± 25.217 $\chi^2/\text{NDF}: 44860.2/37$

Out: -3371.806 ± 24.189 $\chi^2/\text{NDF}: 73206.1/40$

All: -3844.952 ± 17.456 $\chi^2/\text{NDF}: 118864.8/77$

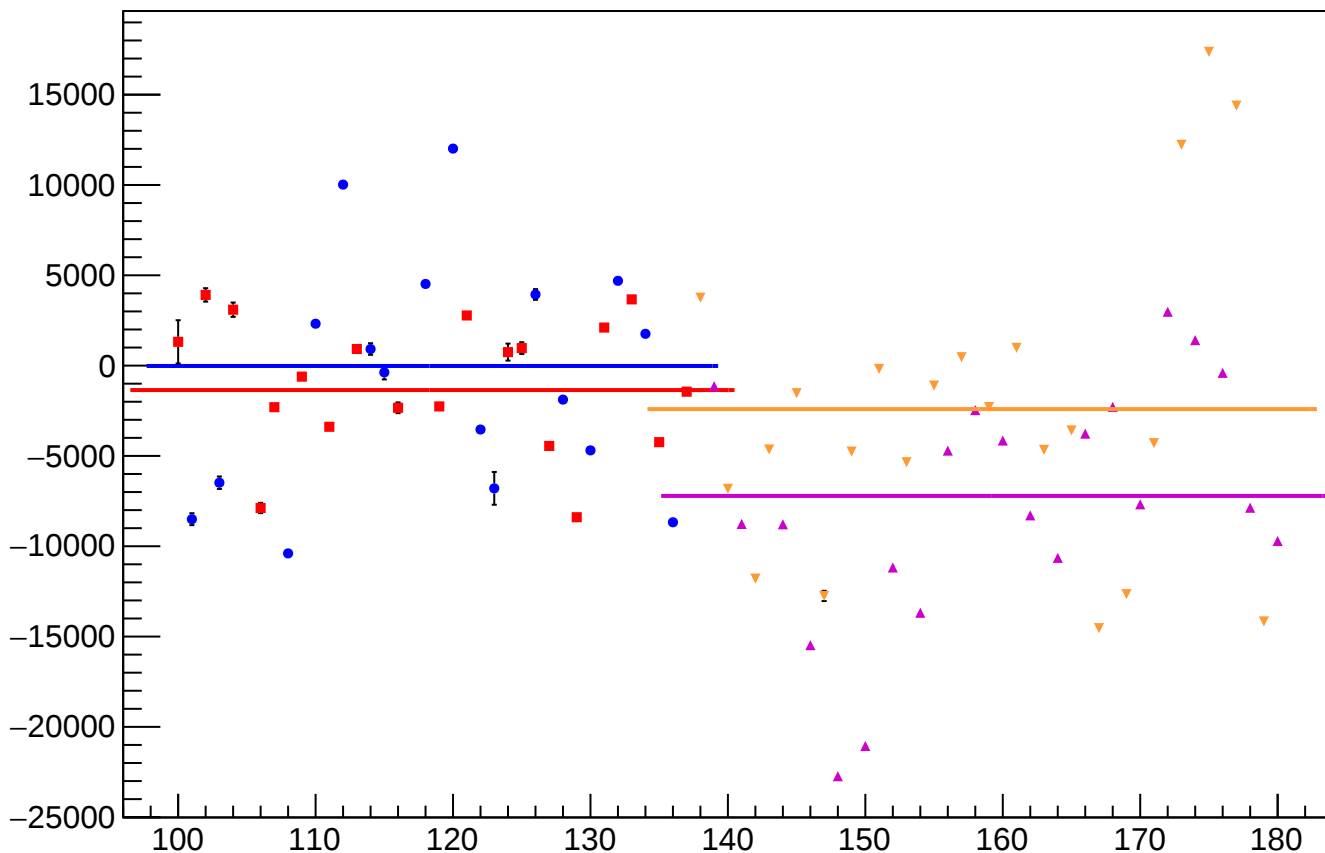
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 122.582+/-0.022 χ^2/NDF : 2037601.4/21
 Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18
 Left In: 126.163+/-0.023 χ^2/NDF : 2008455.5/20

Left: 124.306+/-0.016 χ^2/NDF : 4058639.4/42
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 114.498+/-0.018 χ^2/NDF : 3471581.6/37
 Out: 111.520+/-0.017 χ^2/NDF : 3513968.1/40
 All: 112.947+/-0.012 χ^2/NDF : 7000077.5/78

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2405.873 ± 41.912 $\chi^2/\text{NDF}: 30324.9/21$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -7214.647 ± 43.814 $\chi^2/\text{NDF}: 17822.2/20$

Left: -4703.609 ± 30.286 $\chi^2/\text{NDF}: 54437.4/42$

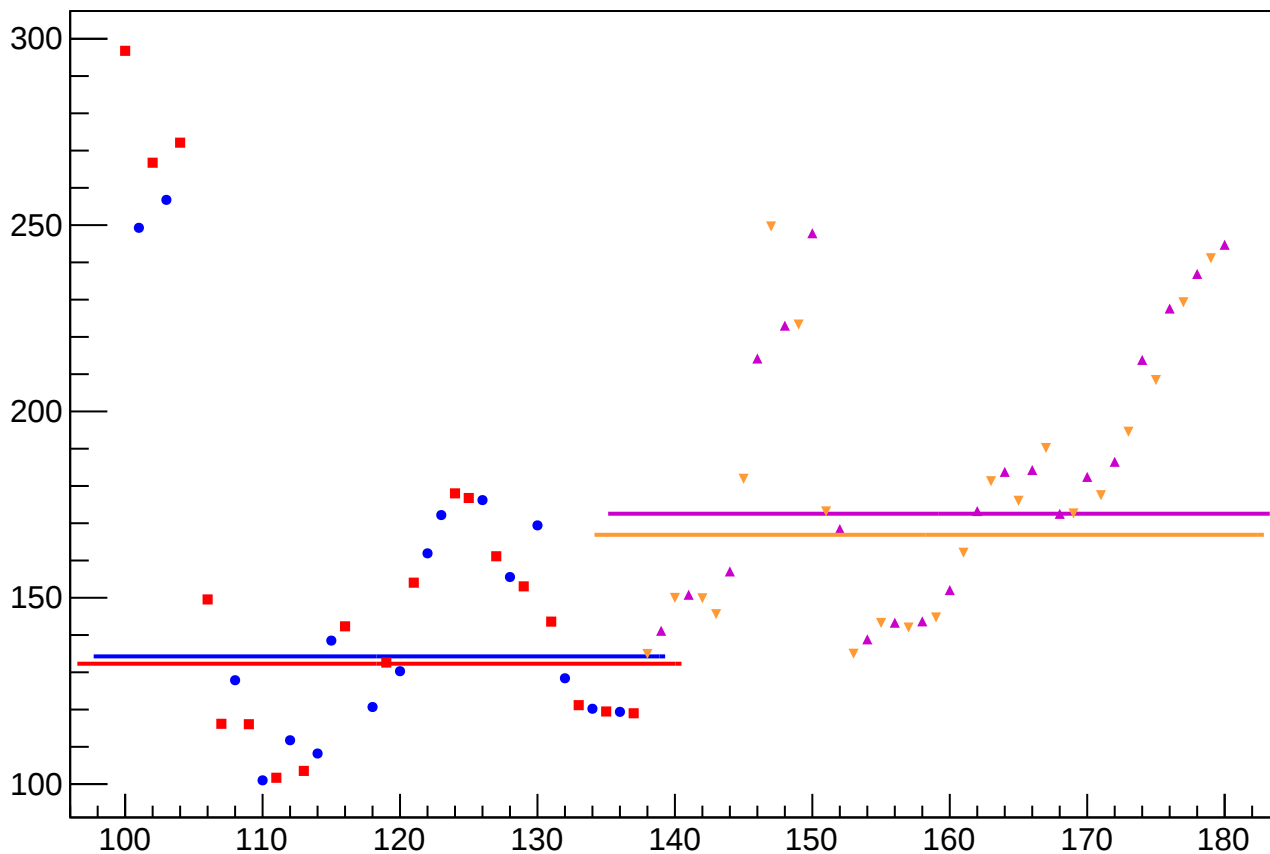
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4399.226 ± 34.183 $\chi^2/\text{NDF}: 44735.1/37$

Out: -1994.958 ± 32.722 $\chi^2/\text{NDF}: 34408.3/40$

All: -3144.626 ± 23.637 $\chi^2/\text{NDF}: 81725.0/78$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 166.899 $\pm$ 0.030 χ^2 /NDF:1044150.2/21

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 172.554 $\pm$ 0.031 χ^2 /NDF:1099859.0/20

Left: 169.601 $\pm$ 0.021 χ^2 /NDF: 2161409.8/42

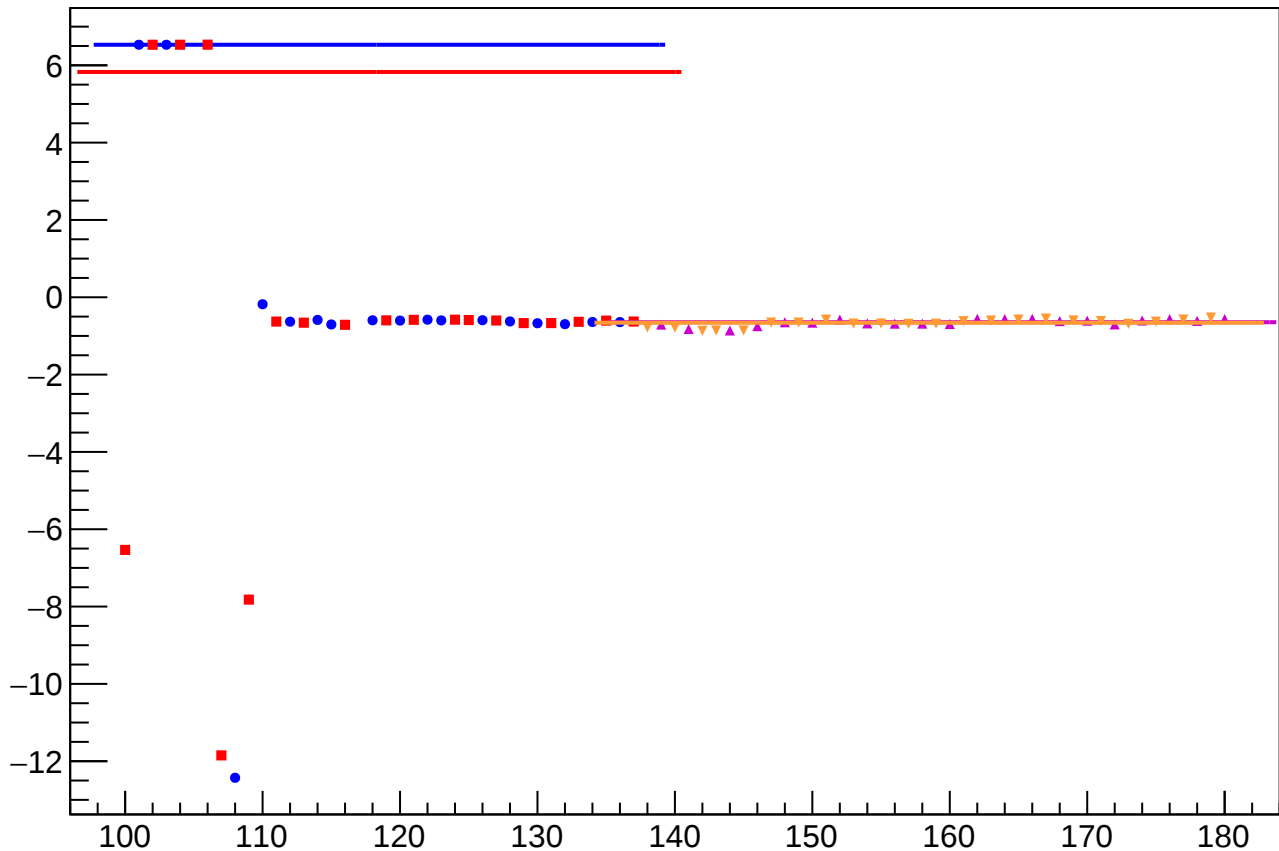
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 157.572 $\pm$ 0.024 χ^2 /NDF:2486133.7/37

Out: 153.390 $\pm$ 0.023 χ^2 /NDF:2446137.4/40

All: 155.390 $\pm$ 0.017 χ^2 /NDF: 4947887.4/78

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.658+/-0.000 χ^2/NDF : 164255686.3/21

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.645+/-0.000 χ^2/NDF : 122461691.9/20

Left: -0.651+/-0.000 χ^2/NDF : 288033388.5/42

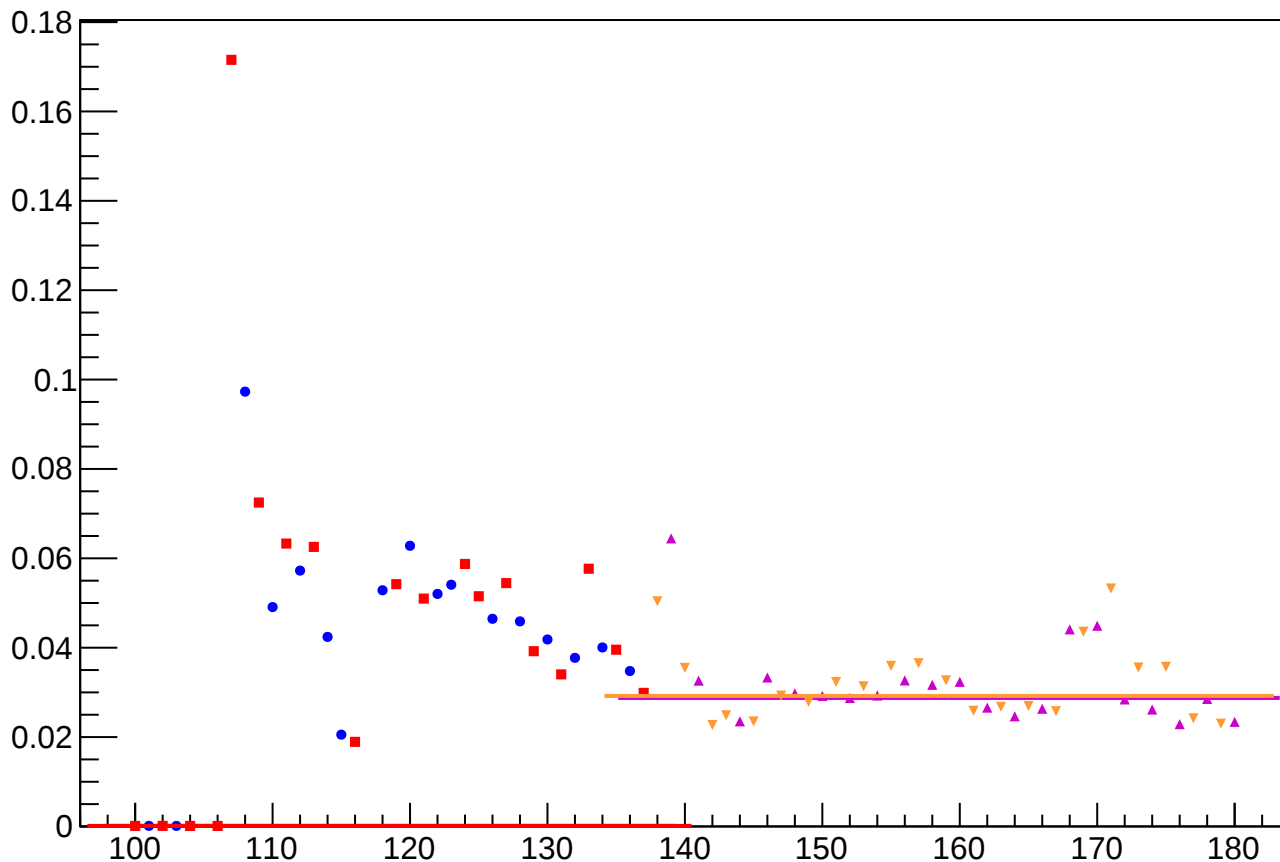
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/42

In: 6.530+/-0.000 χ^2/NDF : 922192635747.3/37

Out: 5.826+/-0.000 χ^2/NDF : 756586694605552.5/42

All: 6.153+/-0.000 χ^2/NDF : 77749695175596.5/84

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.029+/-0.000 χ^2/NDF :1247638.8/21

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.029+/-0.000 χ^2/NDF :1101299.5/20

Left: 0.029+/-0.000 χ^2/NDF : 2352002.2/42

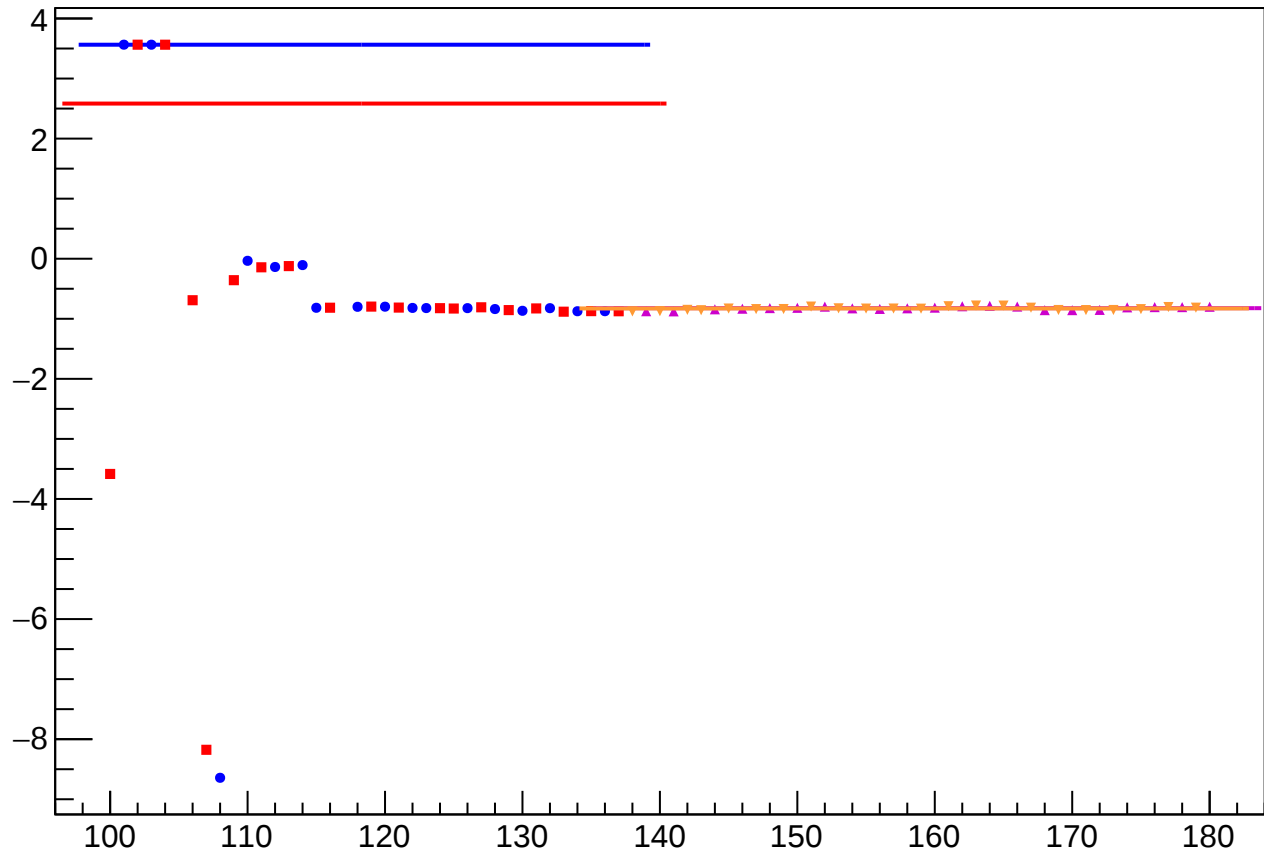
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF :35420030.6/37

Out: 0.000+/-0.000 χ^2/NDF :36281100.2/40

All: 0.000+/-0.000 χ^2/NDF : 71701648.0/78

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.828+/-0.000 χ^2/NDF : 156096156.2/21

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.823+/-0.000 χ^2/NDF : 146732705.7/20

Left: -0.826+/-0.000 χ^2/NDF : 304479744.4/42

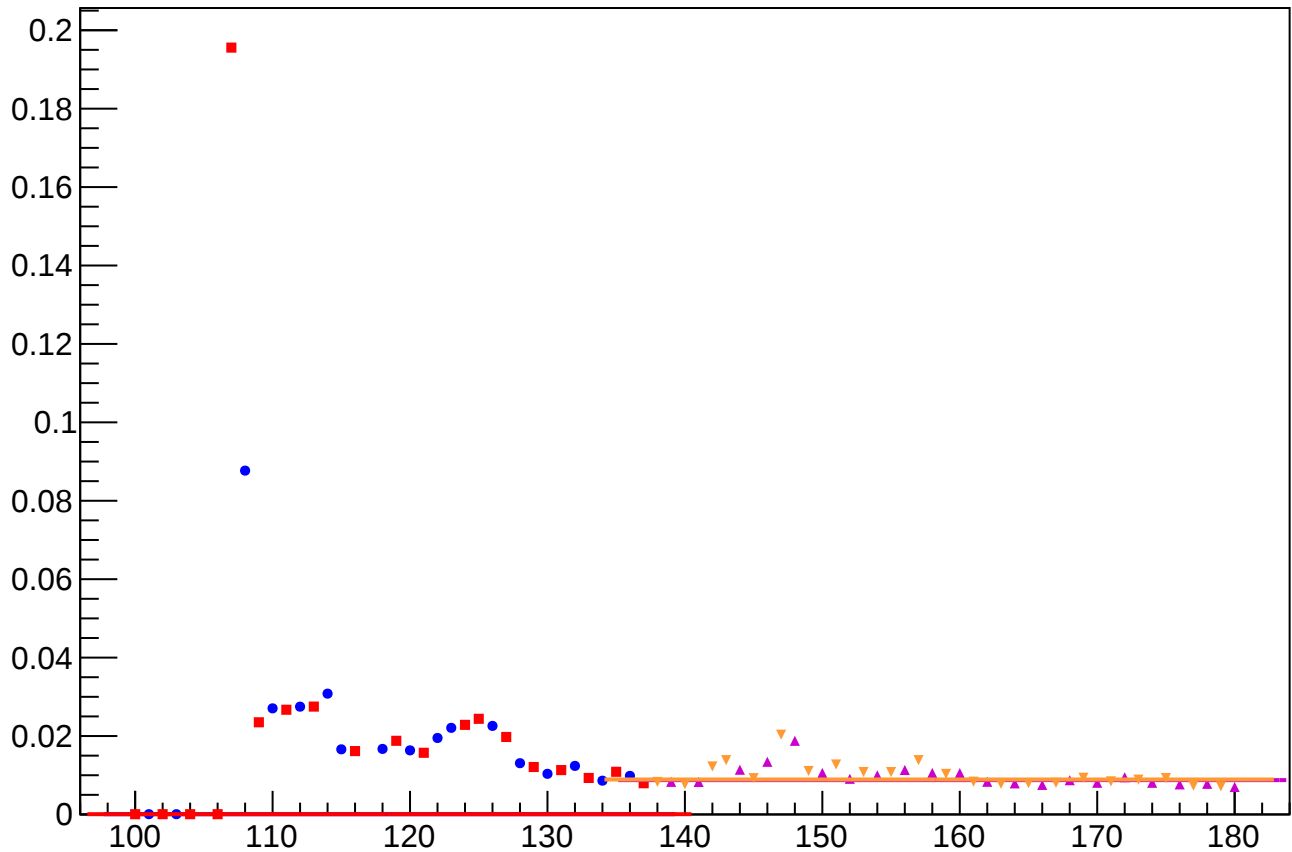
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.560+/-0.000 χ^2/NDF : 3882627669392.3/37

Out: 2.581+/-0.000 χ^2/NDF : 1255506413182096.5

All: 3.038+/-0.000 χ^2/NDF : 13874706541498

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.009+/-0.000 χ^2/NDF :1274801.9/21

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF :1018512.7/20

Left: 0.009+/-0.000 χ^2/NDF : 2298061.3/42

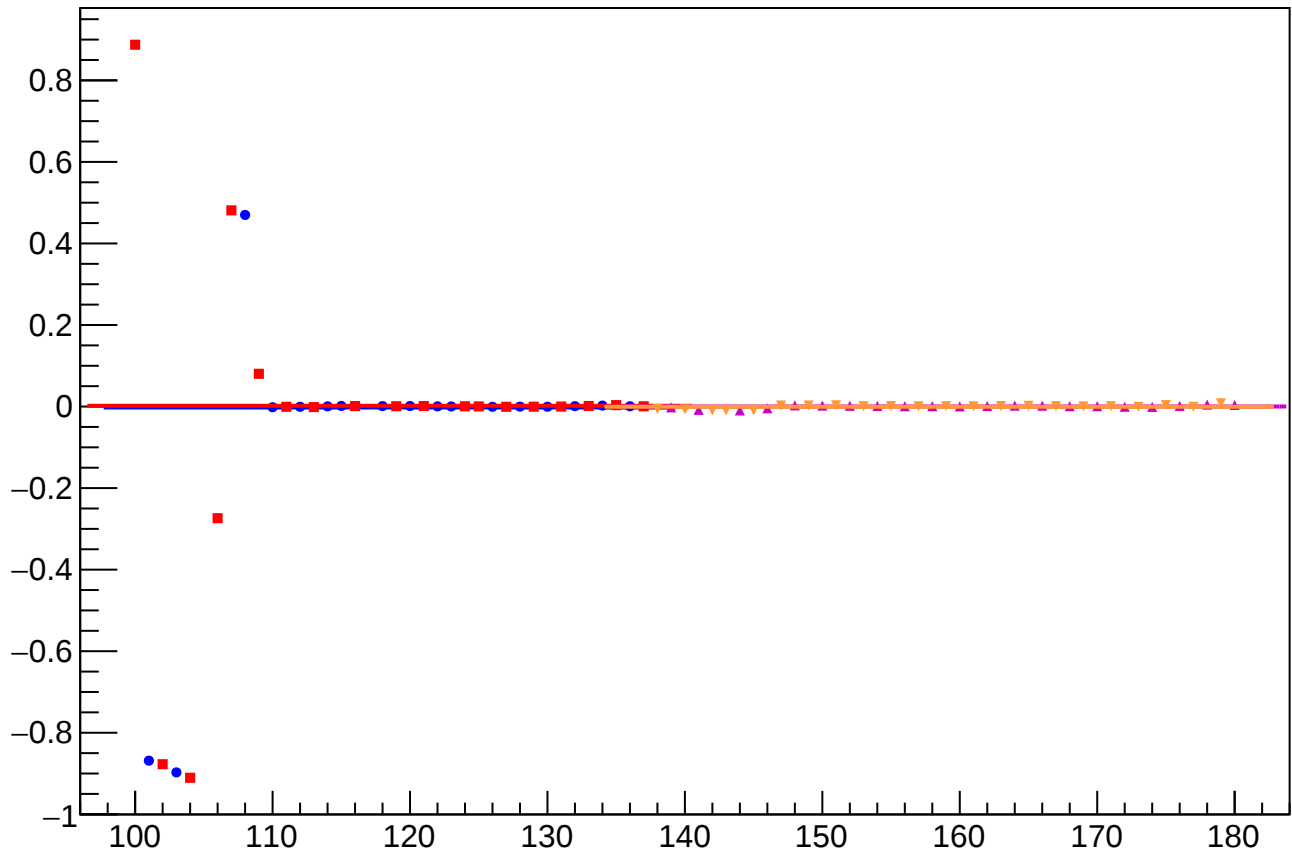
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :37493862.1/37

Out: 0.000+/-0.000 χ^2/NDF :38105956.0/40

All: 0.000+/-0.000 χ^2/NDF : 75600719.4/78

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.000+/-0.000 χ^2/NDF :131536740.4/21

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: 0.000+/-0.000 χ^2/NDF :83194329.9/20

Left: -0.000+/-0.000 χ^2/NDF : 215739438.5/42

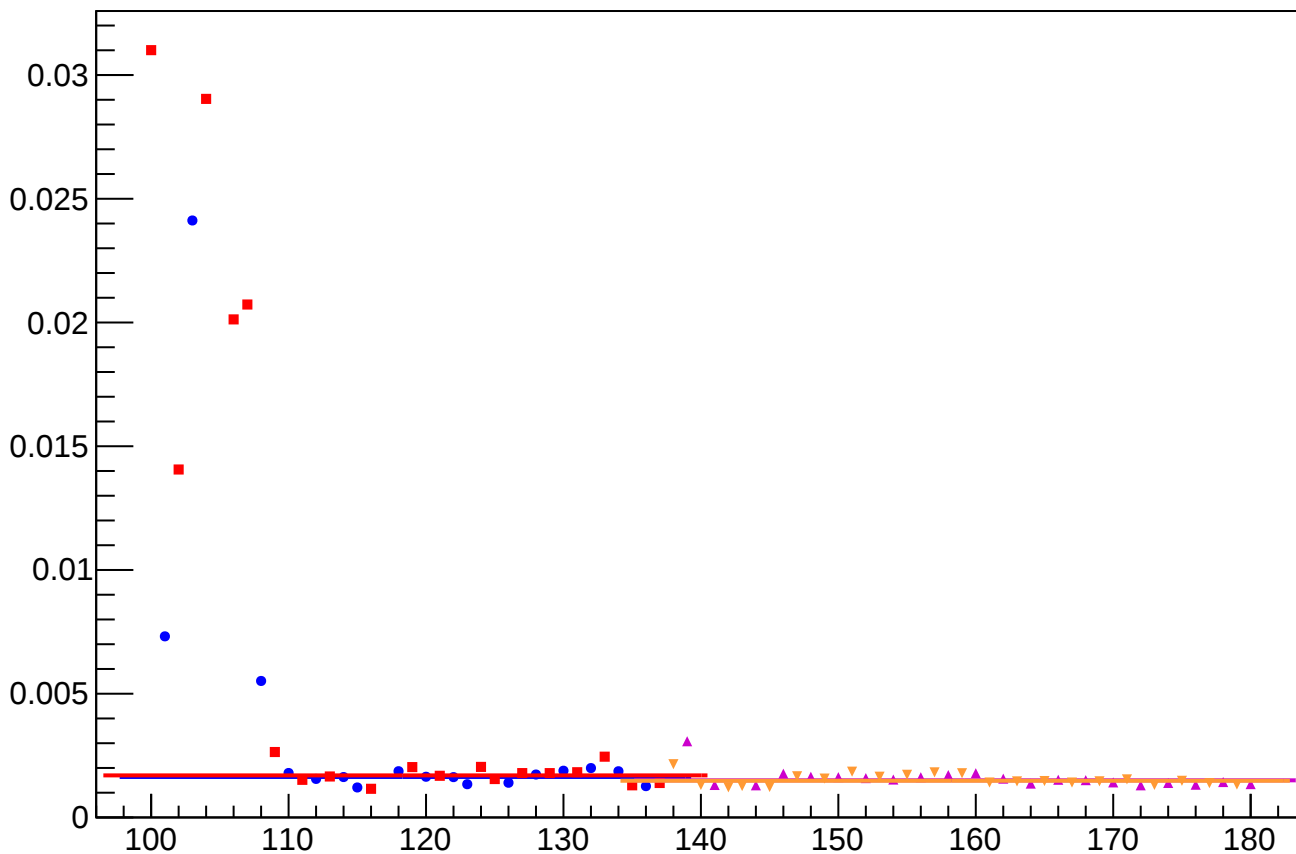
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.000+/-0.000 χ^2/NDF :9886336751.9/37

Out: 0.000+/-0.000 χ^2/NDF :3179331160.0/40

All: -0.000+/-0.000 χ^2/NDF : 13066361642.1/83

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:484255.5/21

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:620187.0/20

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1106214.5/42

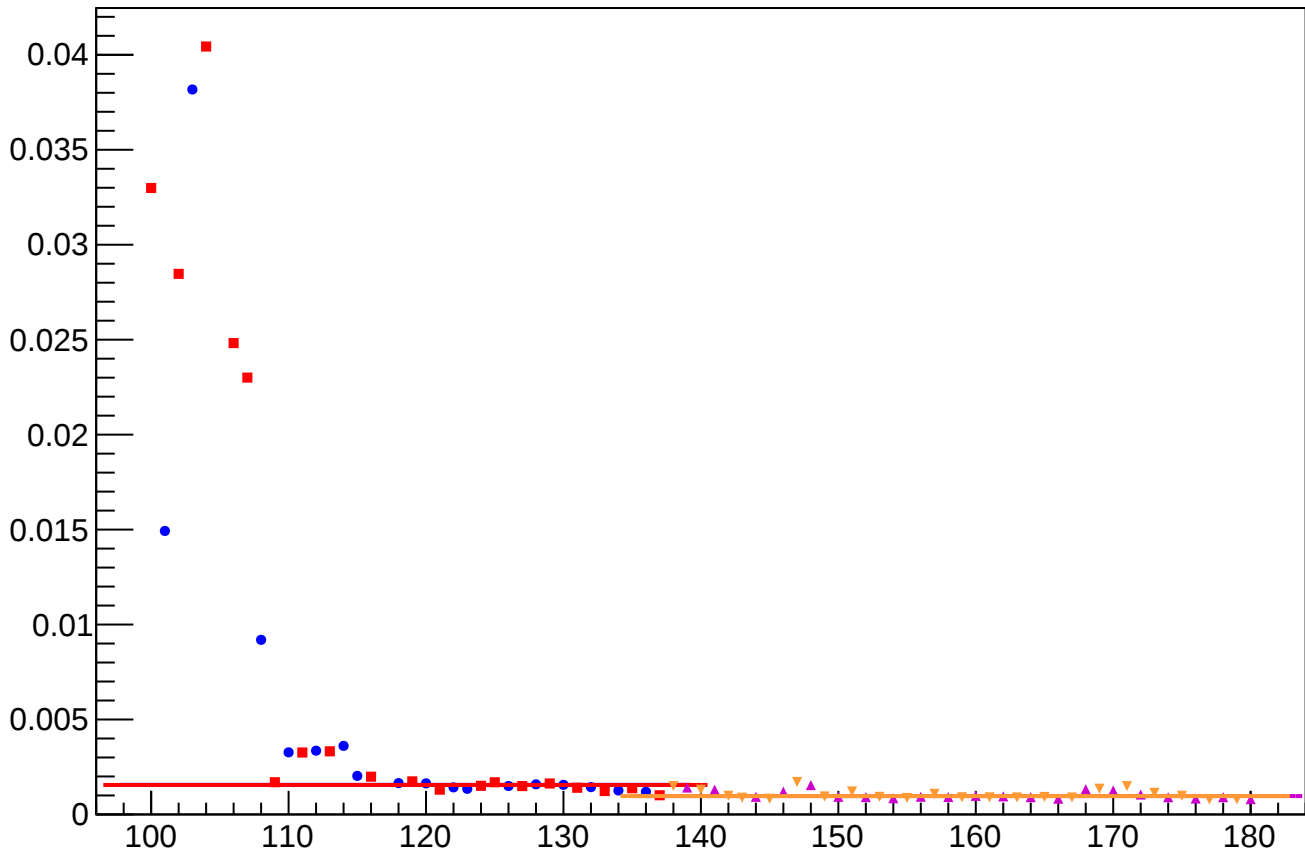
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2587917.7/37

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3625257.4/40

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6213284.0/78

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 :1214313.0/21

Right Out: 0.002 $\pm$ 0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2/NDF :883746.9/20

Left: 0.001 $\pm$ 0.000 χ^2/NDF : 2098059.9/42

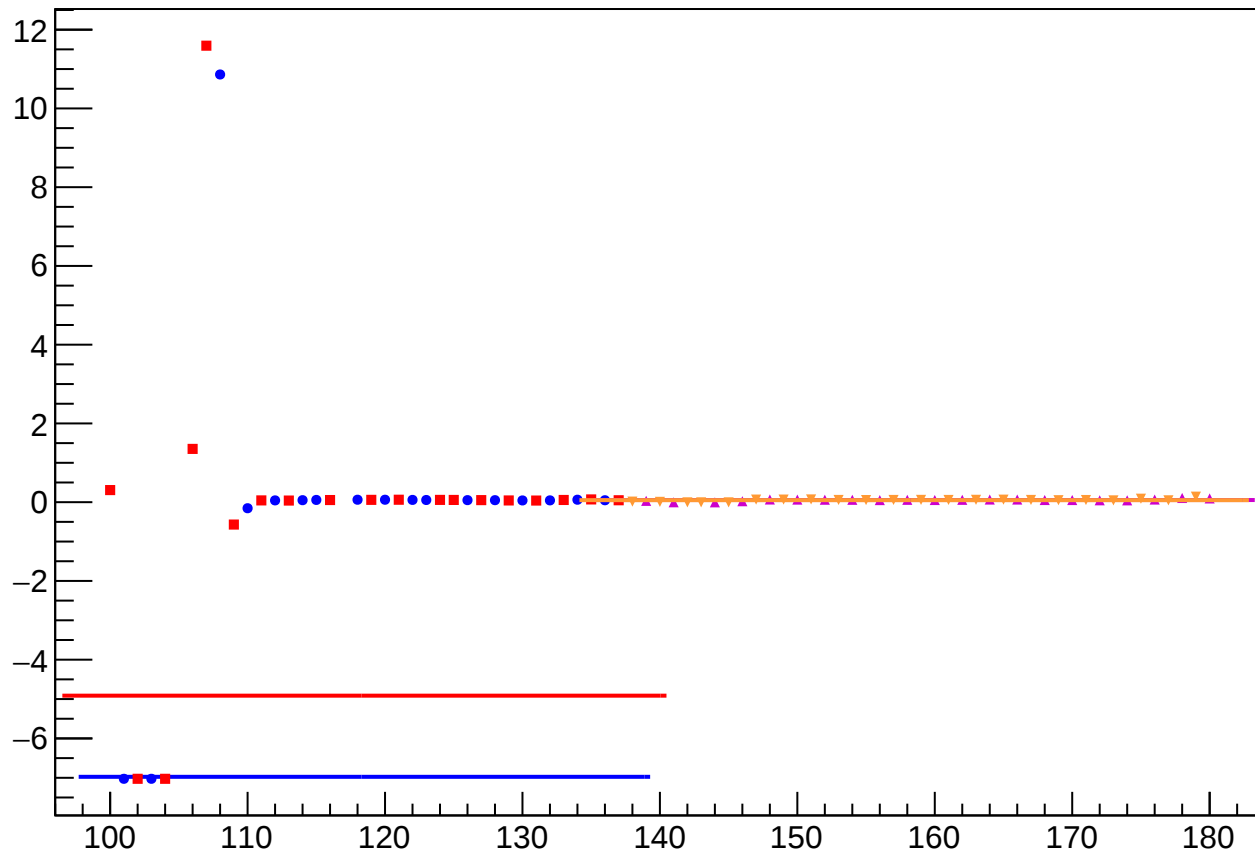
Right: 0.002 $\pm$ 0.000 χ^2/NDF : 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2/NDF :4971542.1/37

Out: 0.001 $\pm$ 0.000 χ^2/NDF :5913702.4/40

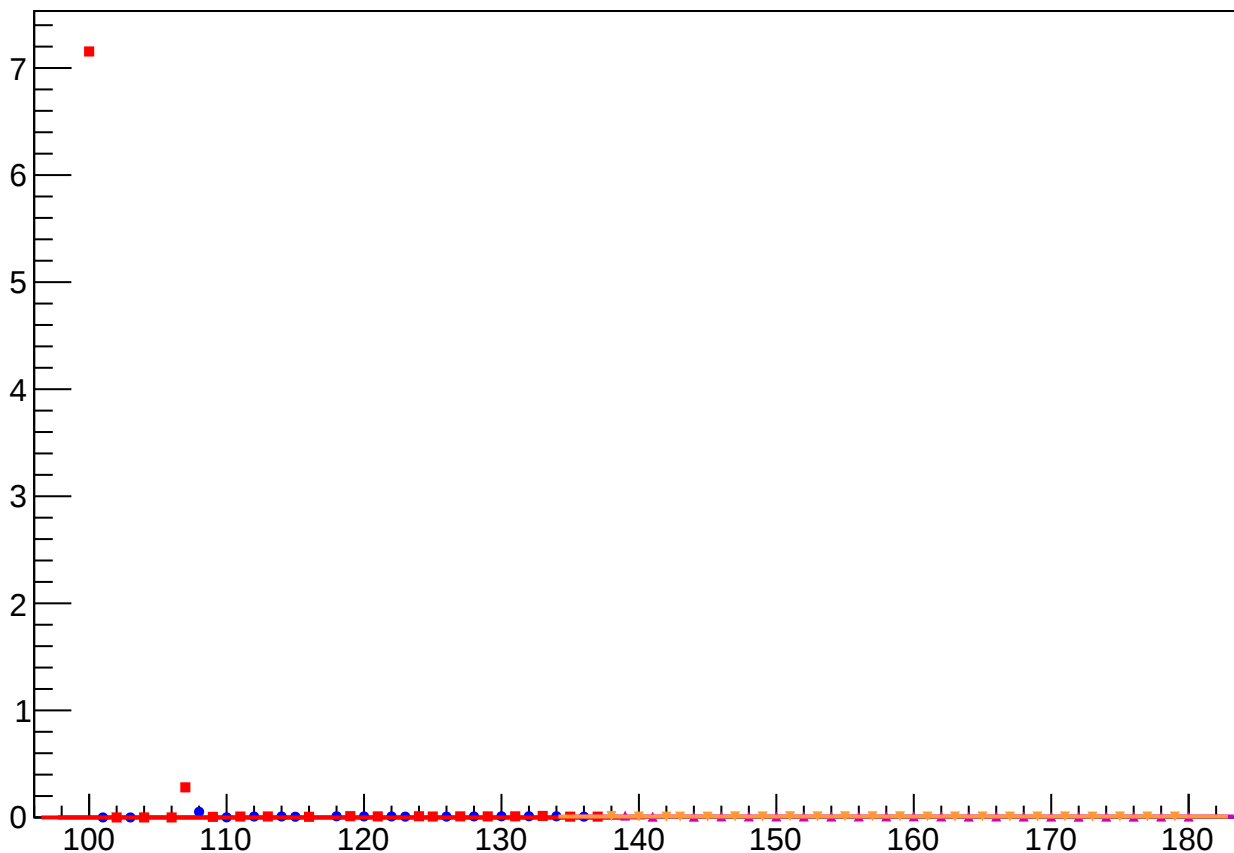
All: 0.001 $\pm$ 0.000 χ^2/NDF : 10885283.1/78

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16
 Left Out: 0.051+/-0.000 χ^2/NDF : 199515418.6/21
 Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18
 Left In: 0.054+/-0.000 χ^2/NDF : 124843064.1/20
 Left: 0.053+/-0.000 χ^2/NDF : 325200185.0/42
 Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9
 In: -6.929+/-0.000 χ^2/NDF : 16946727841695.9/37
 Out: -4.883+/-0.000 χ^2/NDF : 369616679778973.1
 All: -5.862+/-0.000 χ^2/NDF : 4423059070035

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 : 473049.9/21

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 595070.5/20

Left: 0.009+/-0.000 χ^2/NDF : 1071428.9/42

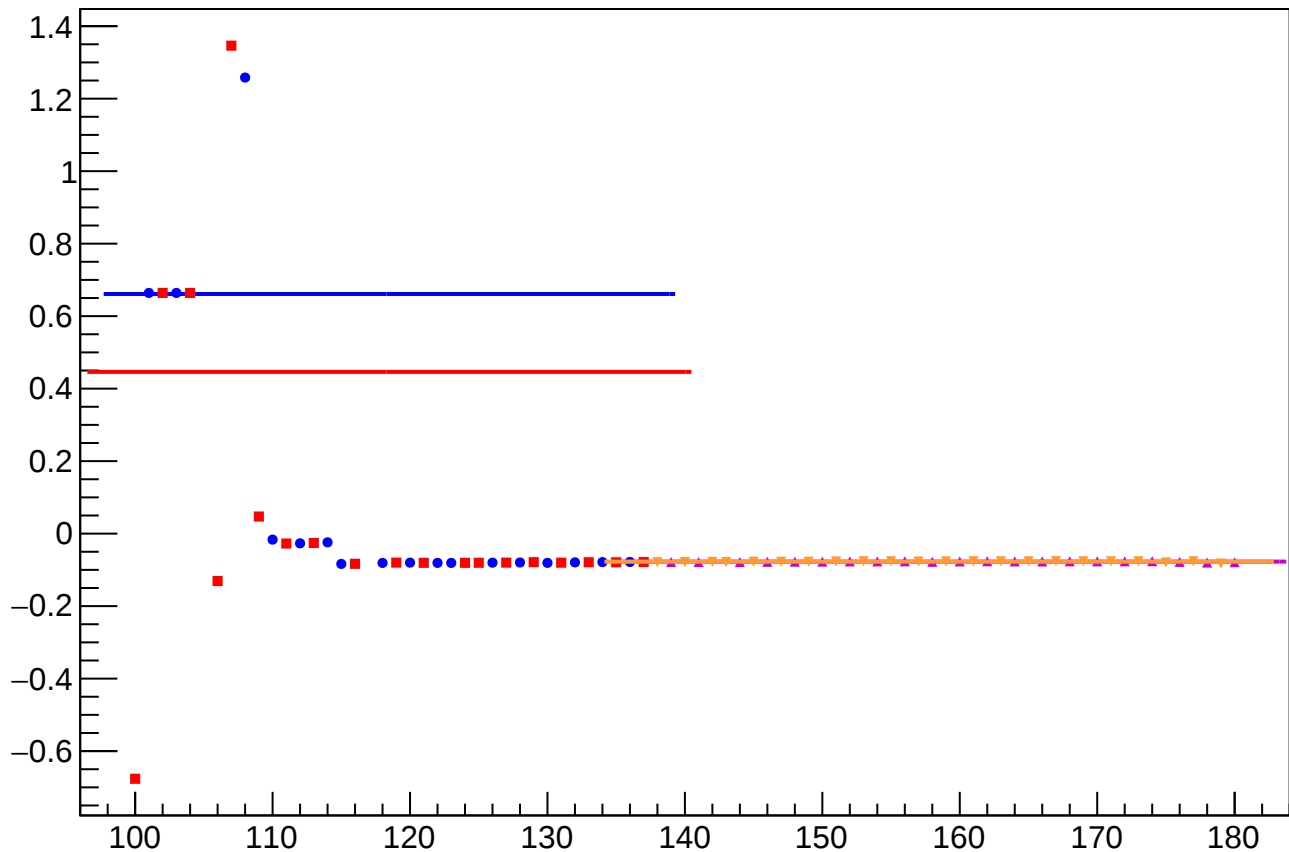
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 34147815.7/37

Out: 0.000+/-0.000 χ^2/NDF : 34788565.2/40

All: 0.000+/-0.000 χ^2/NDF : 68937593.7/78

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 : 186326756.8/42

Left Out: -0.077+/-0.000

χ^2/NDF : 131787317.9/21

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9/42

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.647+/-0.000

χ^2/NDF : 32153769112354.6/37

Out: 0.437+/-0.000

χ^2/NDF : 419108386234087.0/42

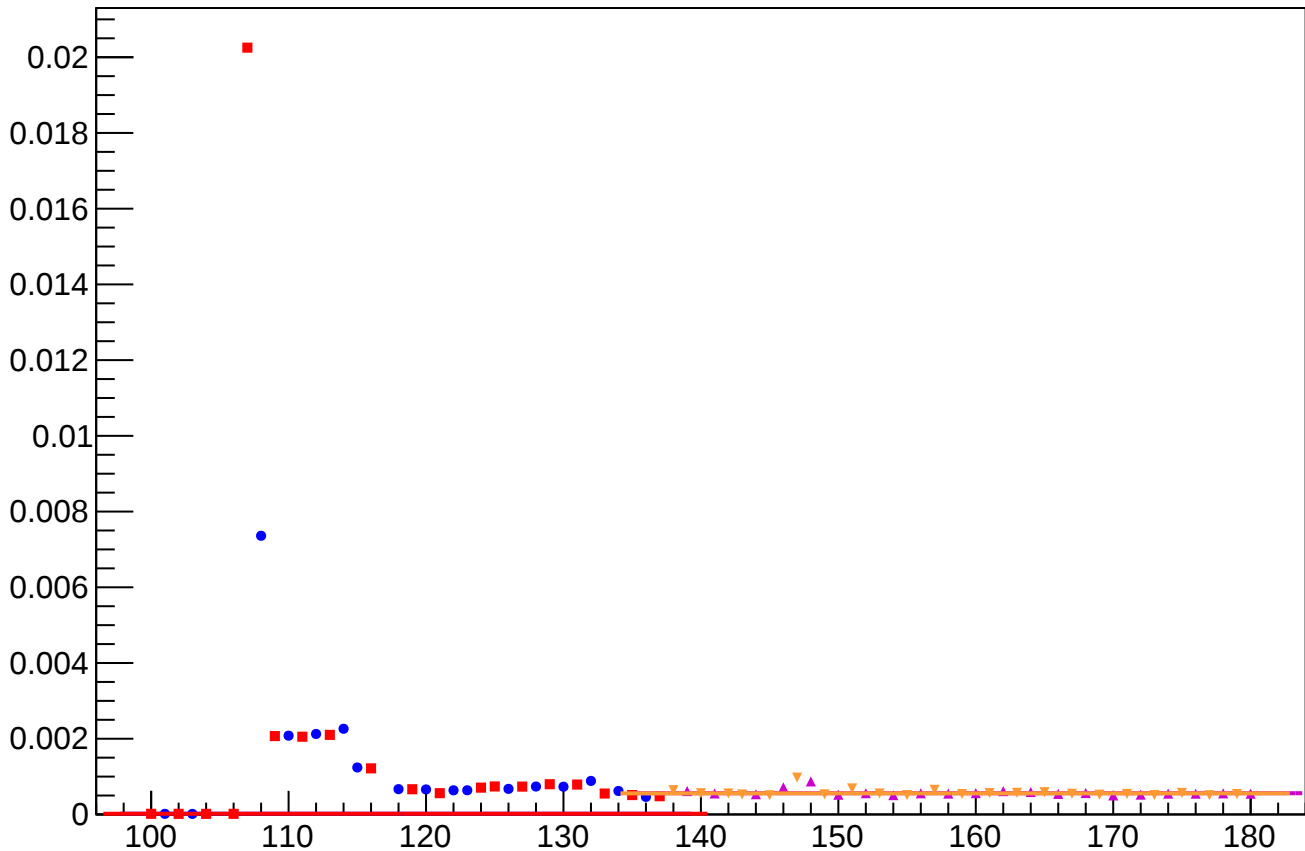
Left In: -0.077+/-0.000

χ^2/NDF : 54329976.2/20

All: 0.538+/-0.000

χ^2/NDF : 51261602192712.1/100

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 : 456929.2/21

Right Out: 0.000+/-0.000

χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000

χ^2/NDF : 354205.6/20

Left: 0.001+/-0.000

χ^2/NDF : 811877.3/42

Right: 0.000+/-0.000

χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000

χ^2/NDF : 38962534.7/37

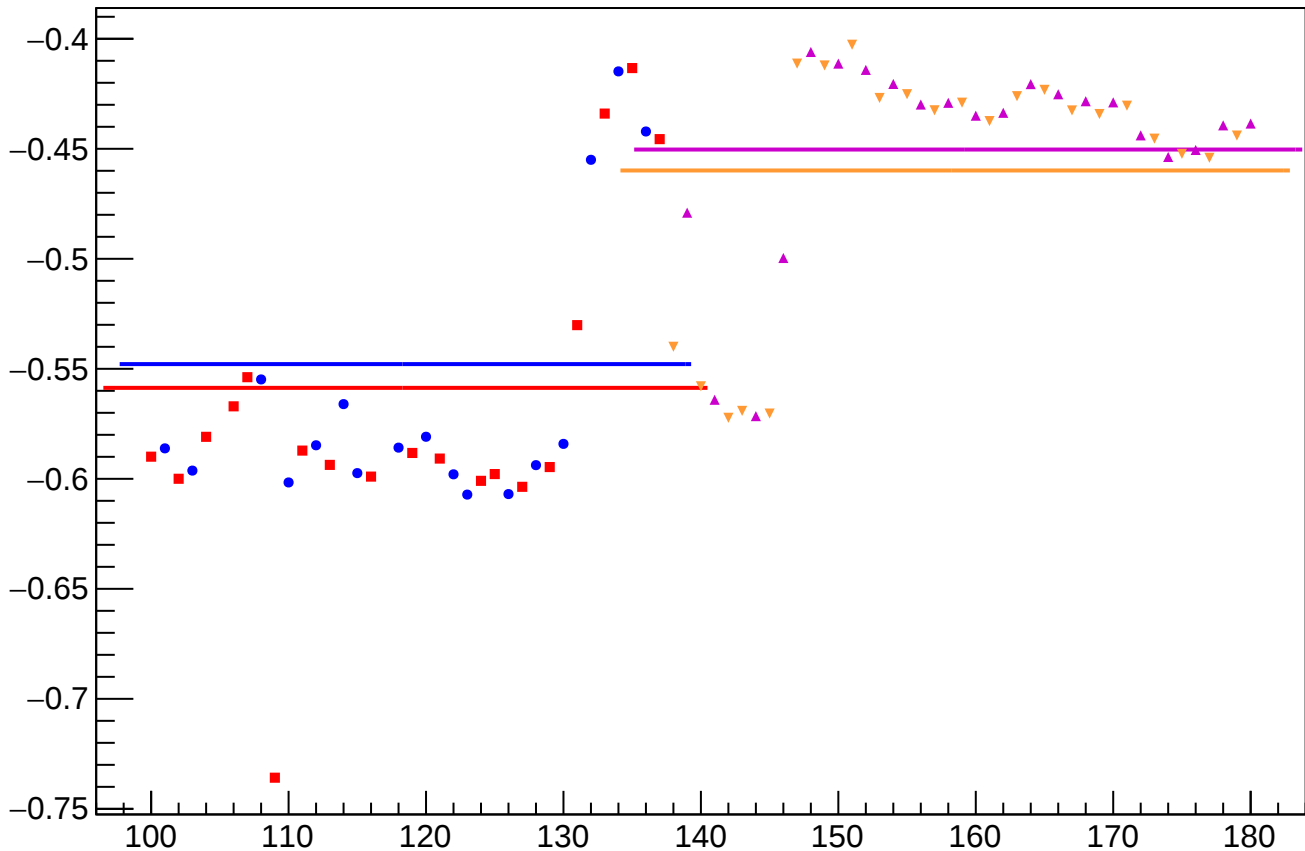
Out: 0.000+/-0.000

χ^2/NDF : 38951769.7/40

All: 0.000+/-0.000

χ^2/NDF : 77915928.8/78

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.460+/-0.000 χ^2/NDF :107165640.2/21

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.450+/-0.000 χ^2/NDF :75901940.6/20

Left: -0.455+/-0.000 χ^2/NDF : 184644314.6/42

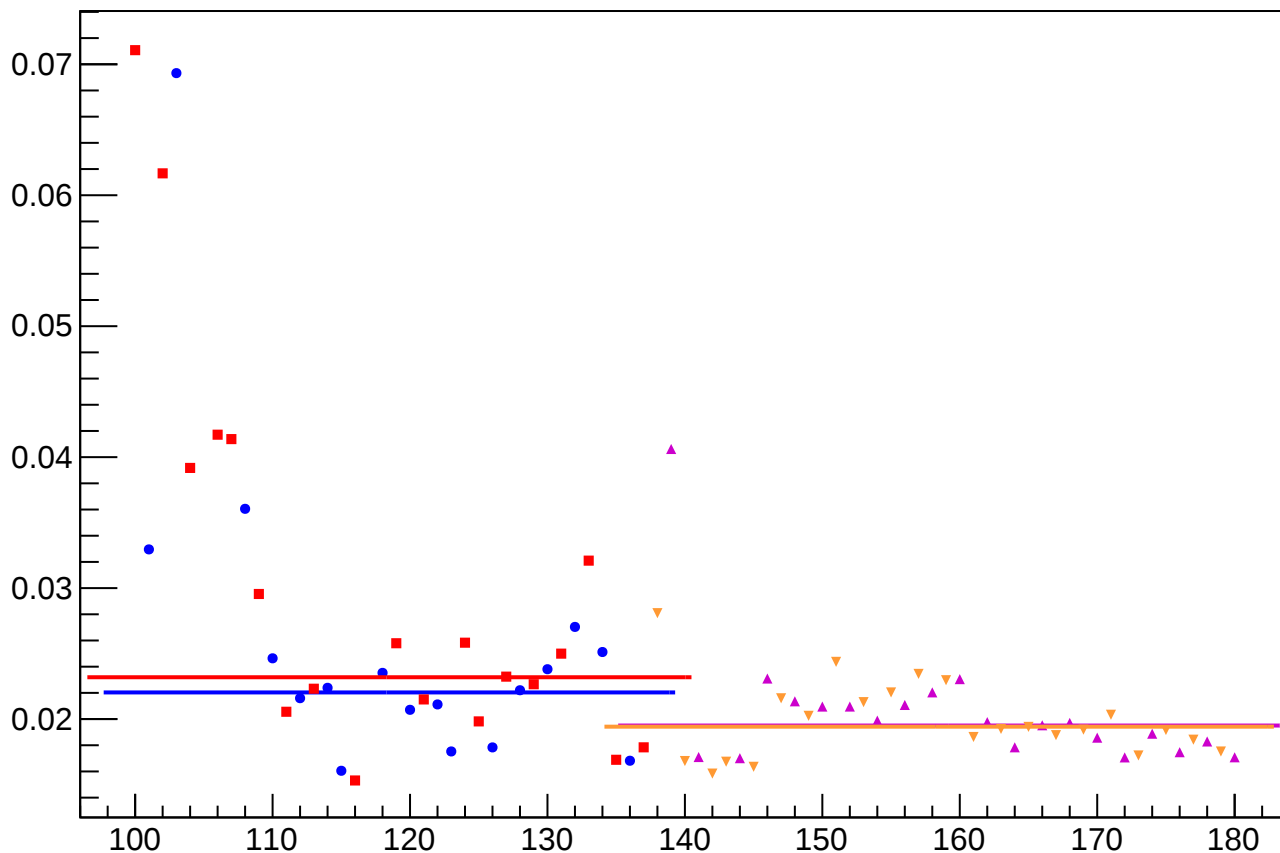
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.473+/-0.000 χ^2/NDF :201099977.6/37

Out: -0.482+/-0.000 χ^2/NDF :248433674.0/40

All: -0.477+/-0.000 χ^2/NDF : 451105350.6/78

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.019+/-0.000 χ^2/NDF : 448002.2/21

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 614295.2/20

Left: 0.019+/-0.000 χ^2/NDF : 1062558.8/42

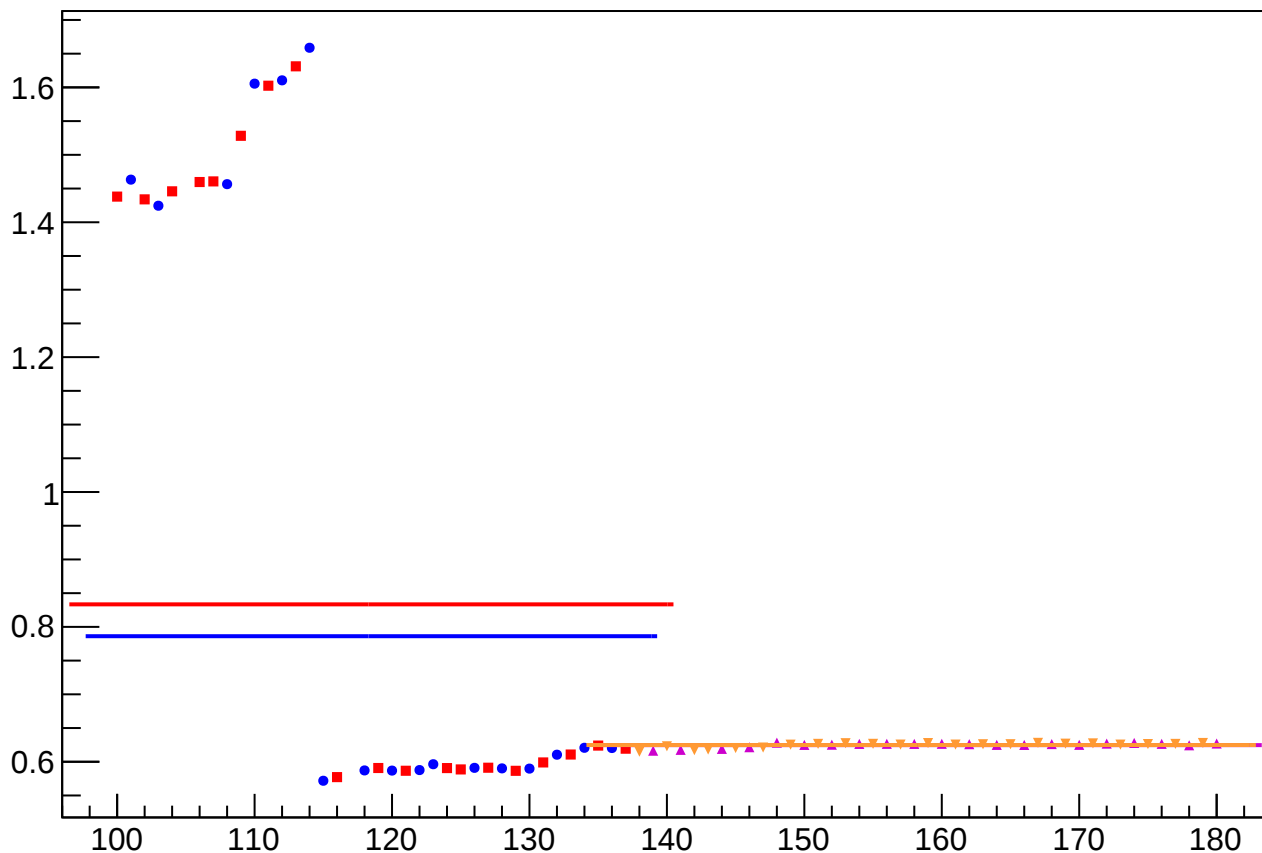
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.020+/-0.000 χ^2/NDF : 1676206.8/37

Out: 0.020+/-0.000 χ^2/NDF : 1825554.1/40

All: 0.020+/-0.000 χ^2/NDF : 3502766.3/78

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786+/-0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.625+/-0.000 χ^2/NDF :1347242.4/21

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.625+/-0.000 χ^2/NDF :1103409.5/20

Left: 0.625+/-0.000 χ^2/NDF : 2451524.2/42

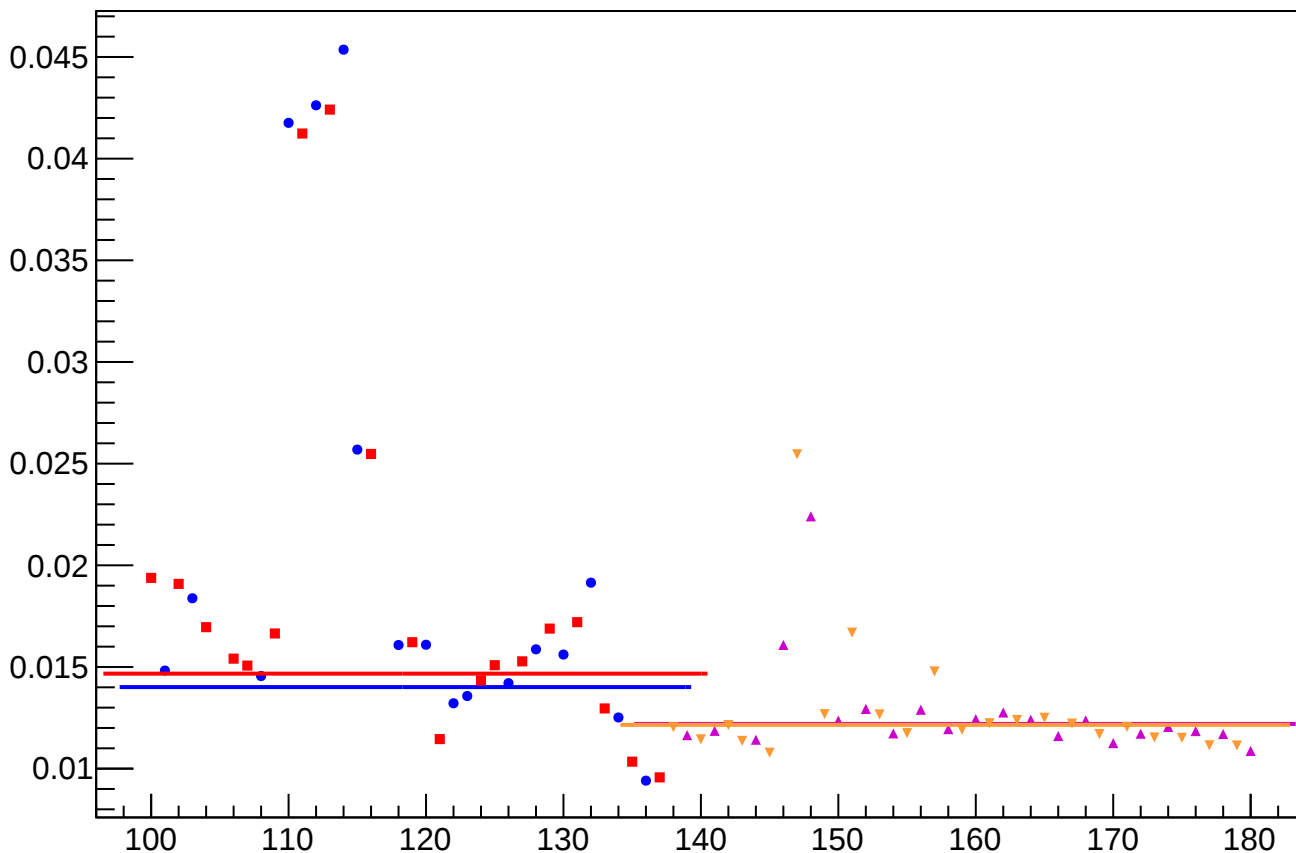
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.659+/-0.000 χ^2/NDF :4183263158.2/37

Out: 0.668+/-0.000 χ^2/NDF :5122495253.4/40

All: 0.664+/-0.000 χ^2/NDF : 9310573630.0/78

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 641436.3/21

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF : 476411.8/20

Left: 0.012+/-0.000 χ^2/NDF : 1118062.4/42

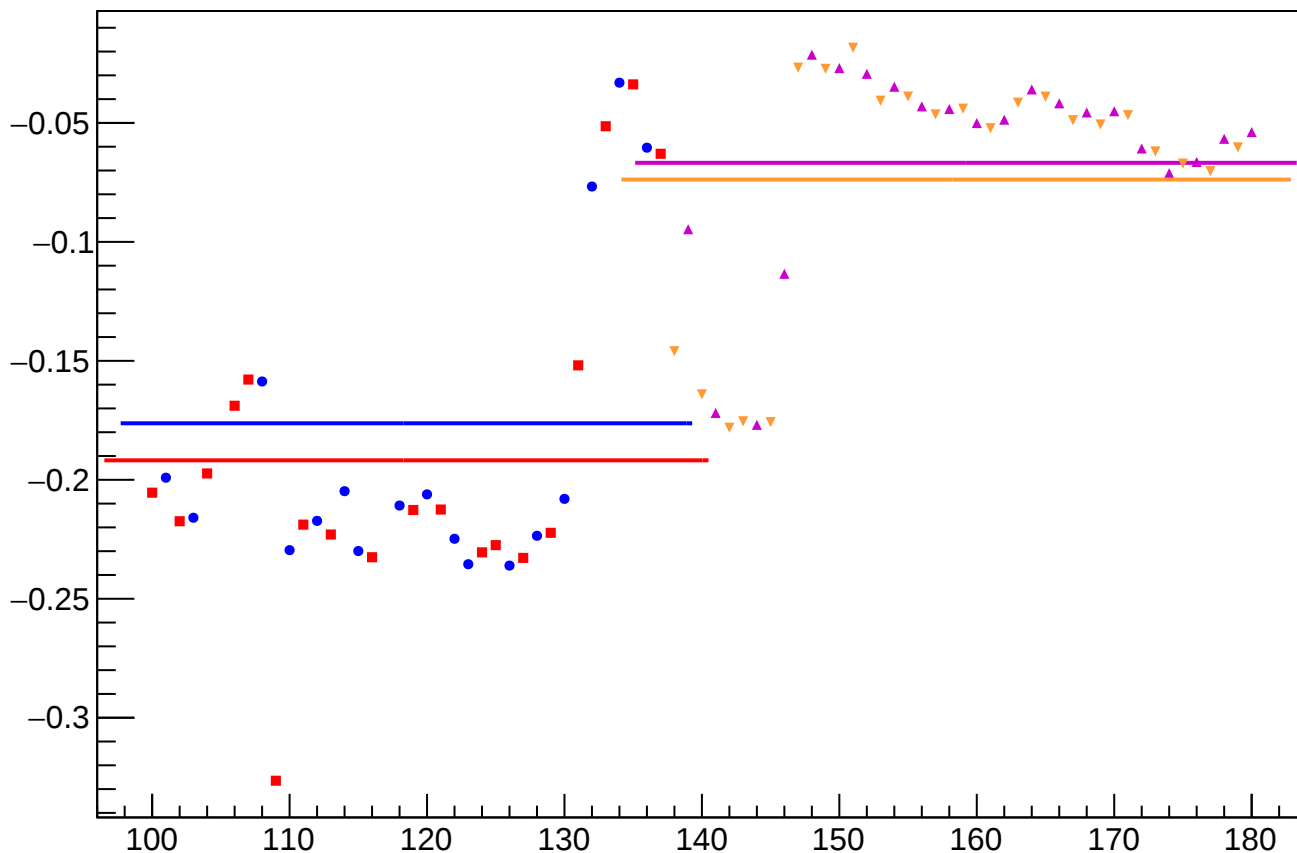
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF : 2030182.6/37

Out: 0.013+/-0.000 χ^2/NDF : 2185838.6/40

All: 0.013+/-0.000 χ^2/NDF : 4217002.3/78

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.074+/-0.000 χ^2/NDF : 101700208.1/21

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.067+/-0.000 χ^2/NDF : 76078364.1/20

Left: -0.070+/-0.000 χ^2/NDF : 178676704.1/42

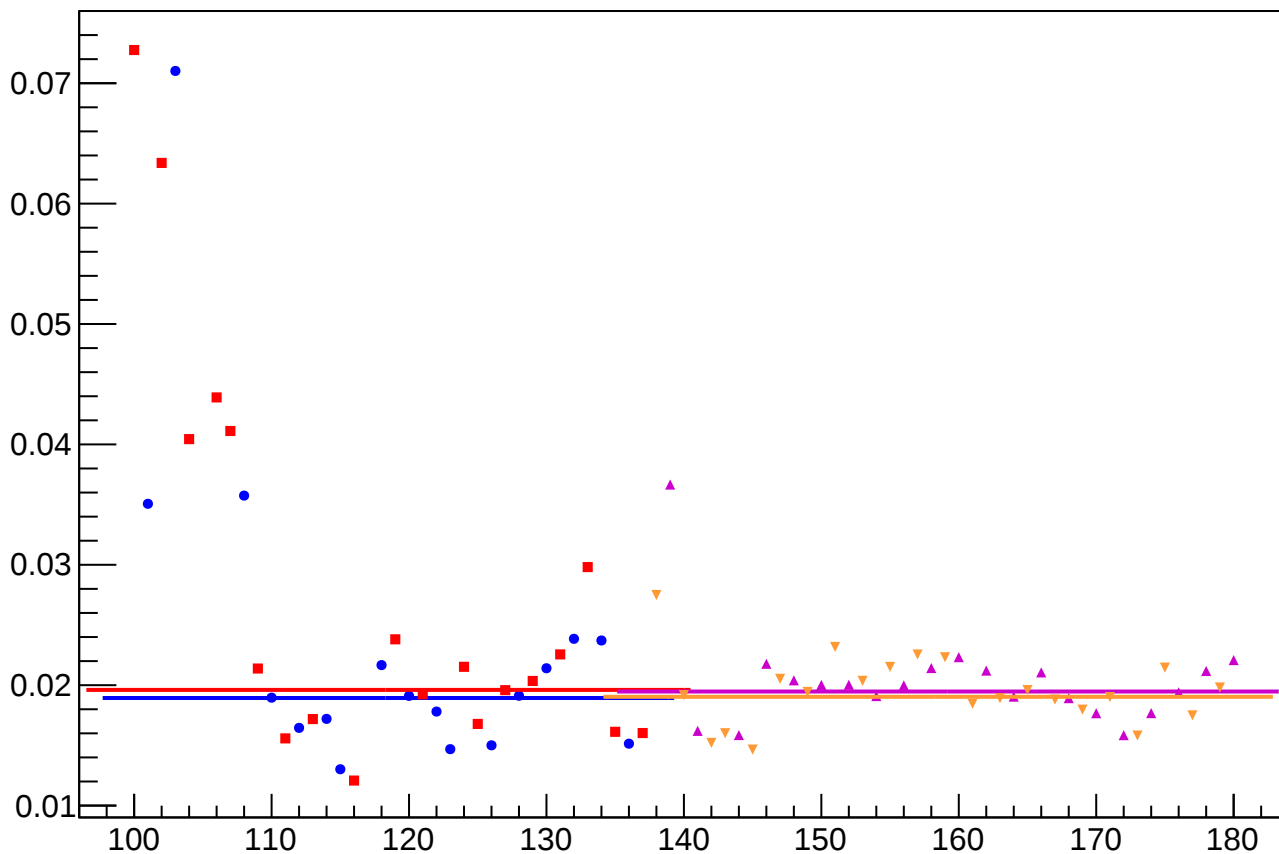
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.098+/-0.000 χ^2/NDF : 266099575.9/37

Out: -0.105+/-0.000 χ^2/NDF : 323619199.7/40

All: -0.102+/-0.000 χ^2/NDF : 591059962.4/78

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 : 507817.7/21

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 595223.7/20

Left: 0.019+/-0.000 χ^2/NDF : 1110079.0/42

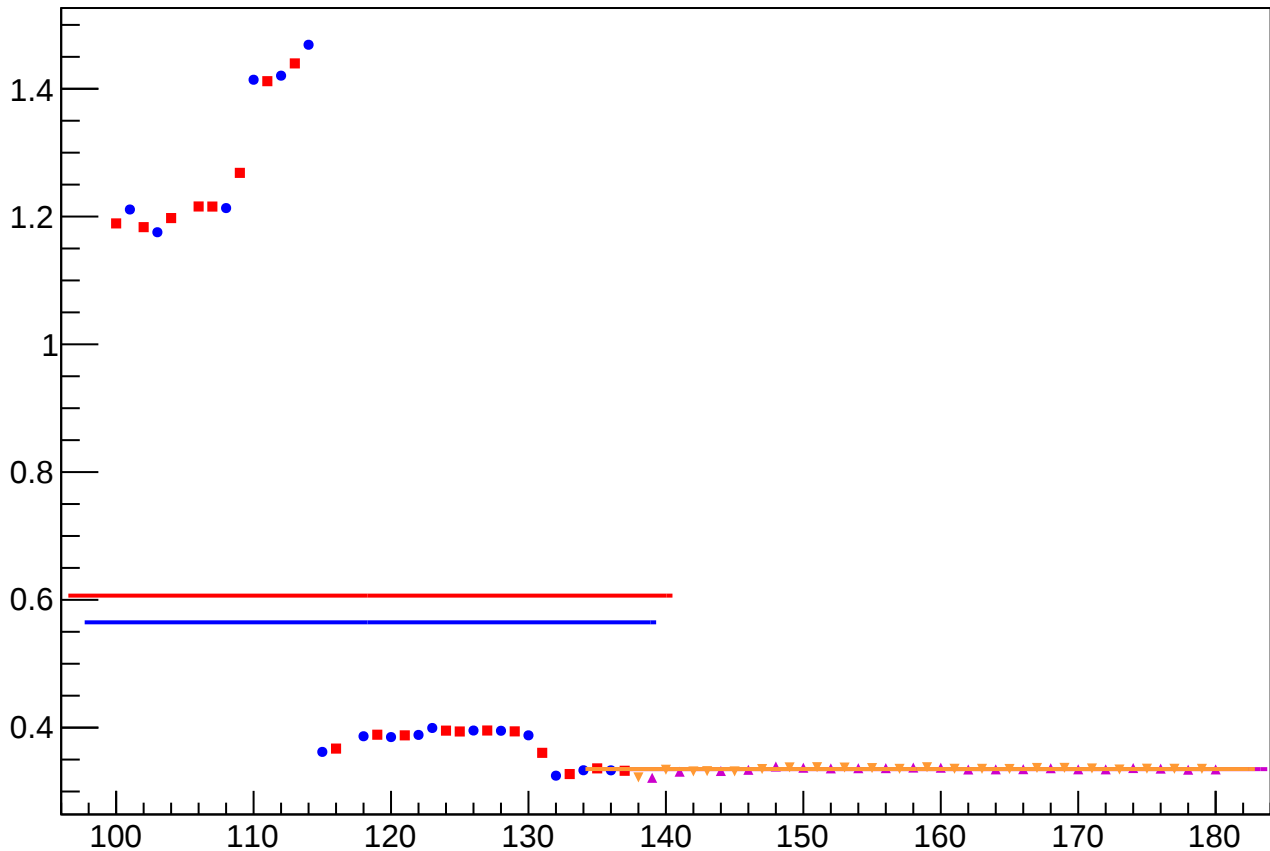
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1806901.9/37

Out: 0.019+/-0.000 χ^2/NDF : 1972045.4/40

All: 0.019+/-0.000 χ^2/NDF : 3779852.0/78

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:1137577.2/21

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5513752213.8/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1199416.2/20

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2338514.7/42

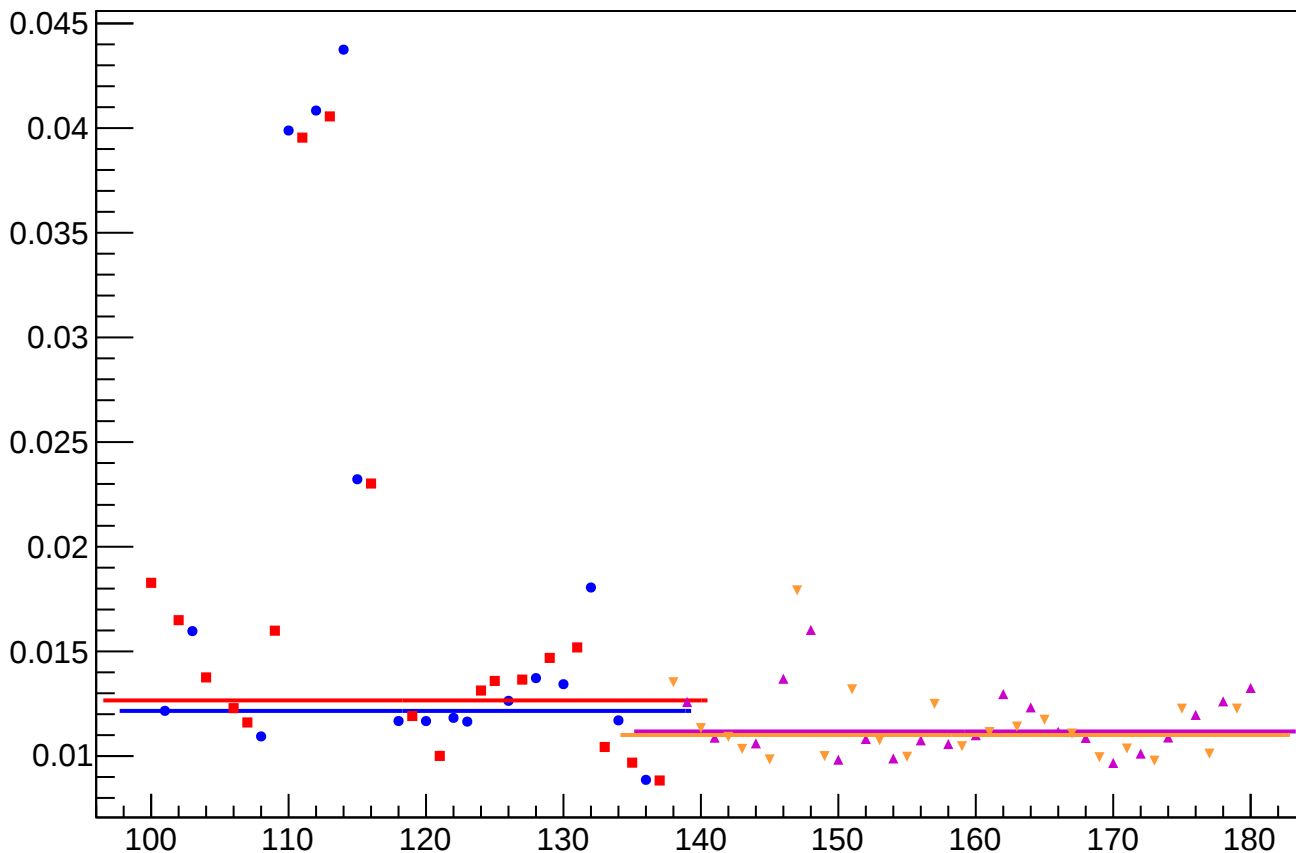
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.389 $\pm$ 0.000 χ^2 /NDF:6579506399.7/37

Out: 0.395 $\pm$ 0.000 χ^2 /NDF:7627593896.4/40

All: 0.392 $\pm$ 0.000 χ^2 /NDF: 14209880214.2/77

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 : 495552.6/21

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 444426.2/20

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 943581.8/42

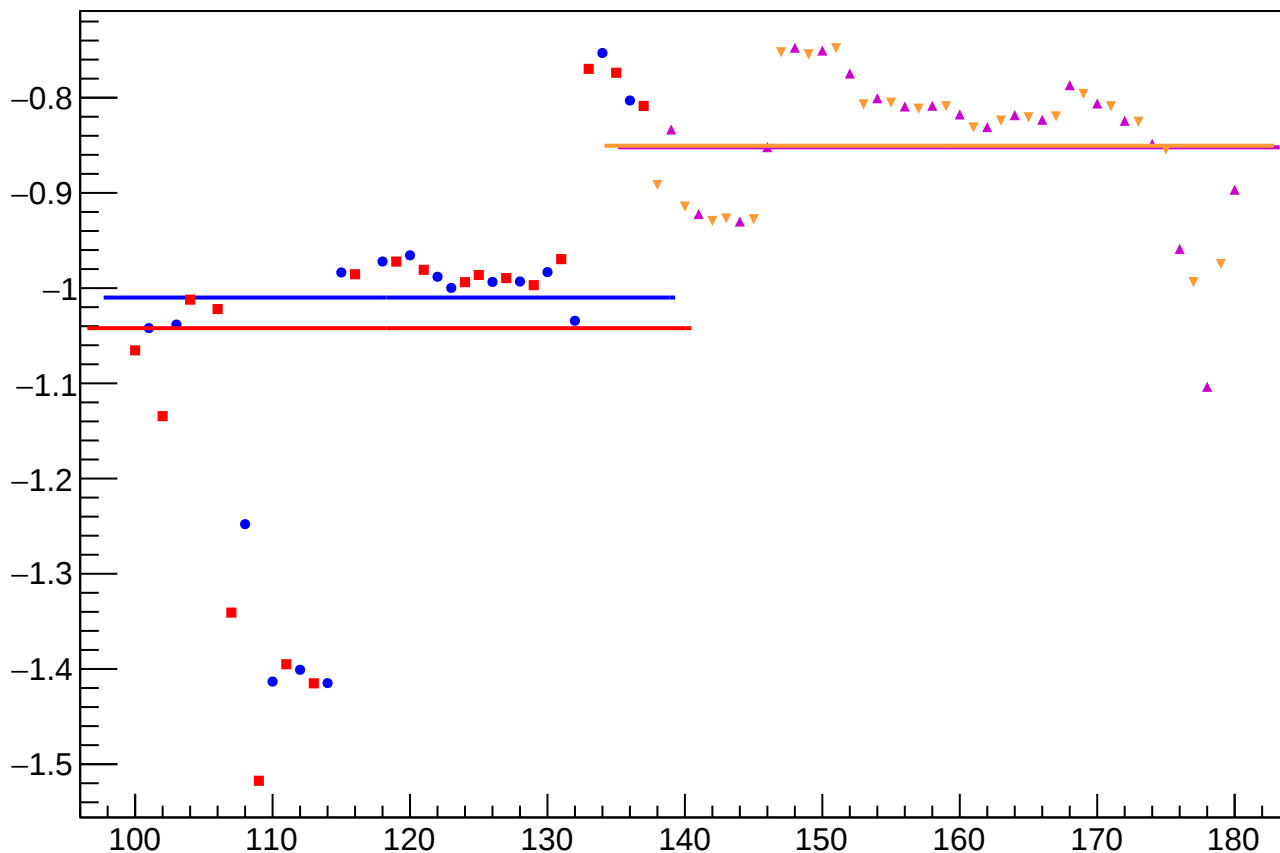
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 1810841.5/37

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 1922584.9/40

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3733639.5/78

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.850+/-0.000 χ^2/NDF :179966584.8/21

Right Out: -1.042+/-0.000 χ^2/NDF : 530106141.8/18

Left In: -0.852+/-0.000 χ^2/NDF :251810839.0/20

Left: -0.851+/-0.000 χ^2/NDF : 431827619.7/42

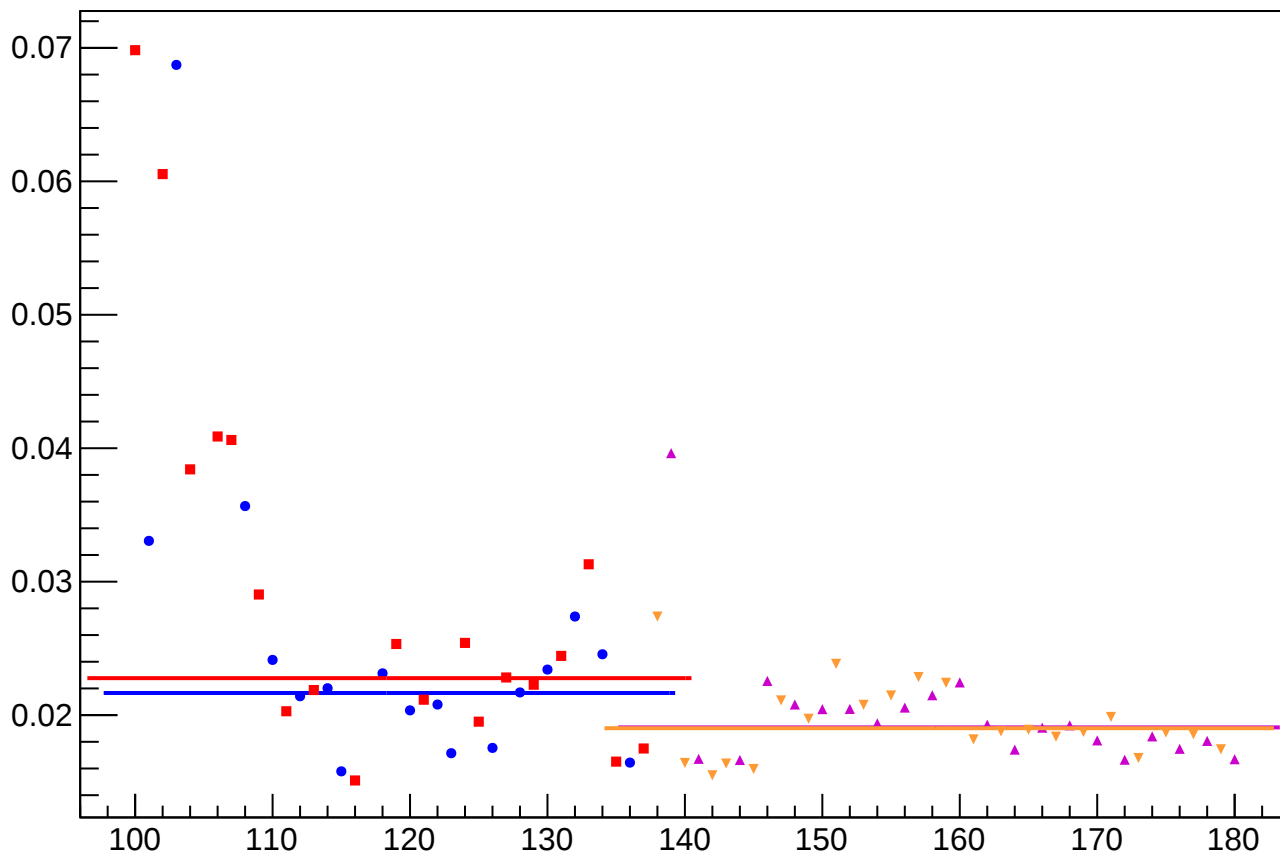
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.889+/-0.000 χ^2/NDF :847216158.5/37

Out: -0.892+/-0.000 χ^2/NDF :1004762859.0/40

All: -0.890+/-0.000 χ^2/NDF : 1852277074.7/77

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 437040.8/21

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 602277.4/20

Left: 0.019+/-0.000 χ^2/NDF : 1039451.5/42

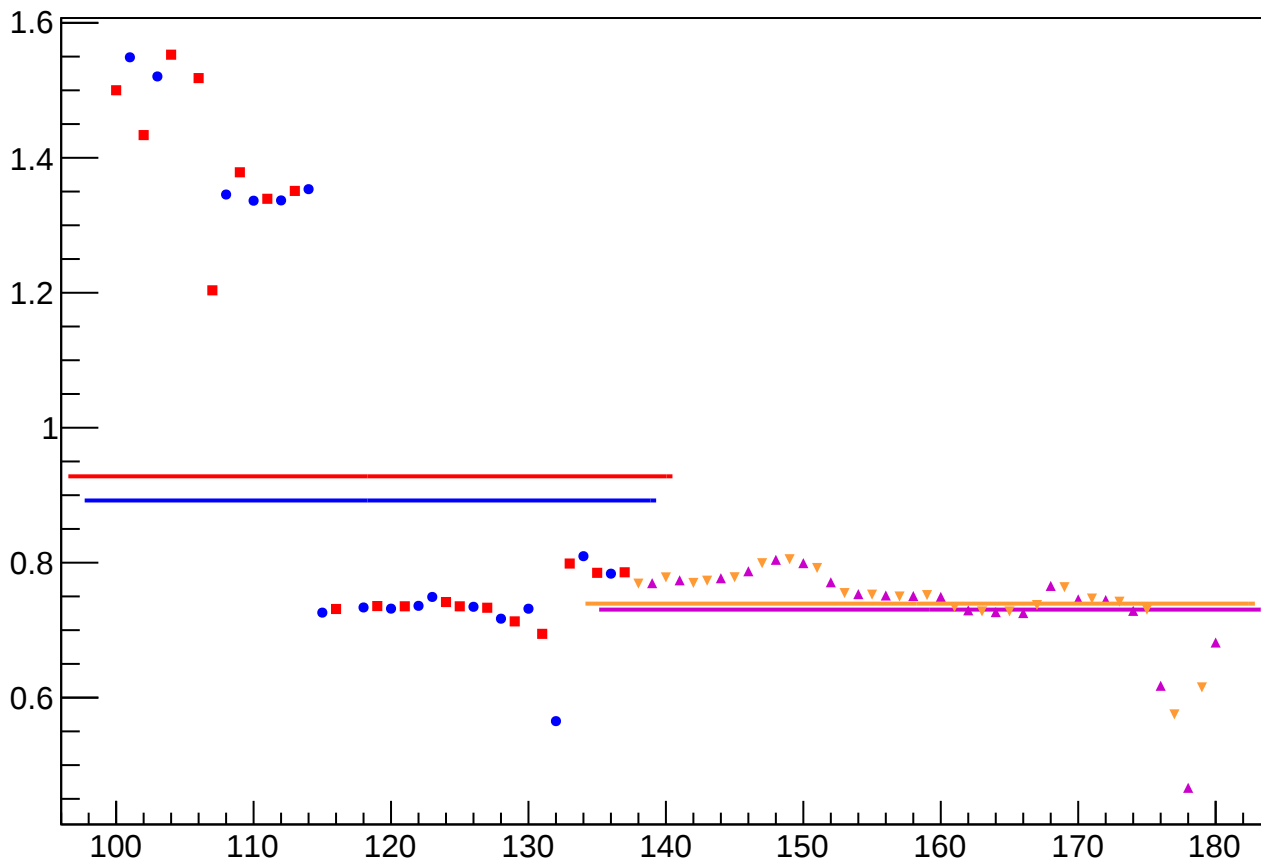
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1696761.3/37

Out: 0.020+/-0.000 χ^2/NDF : 1815521.8/40

All: 0.020+/-0.000 χ^2/NDF : 3513484.9/78

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892+/-0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.739+/-0.000 χ^2/NDF : 315224667.0/21

Right Out: 0.928+/-0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.730+/-0.000 χ^2/NDF : 558110540.2/20

Left: 0.735+/-0.000 χ^2/NDF : 877463274.0/42

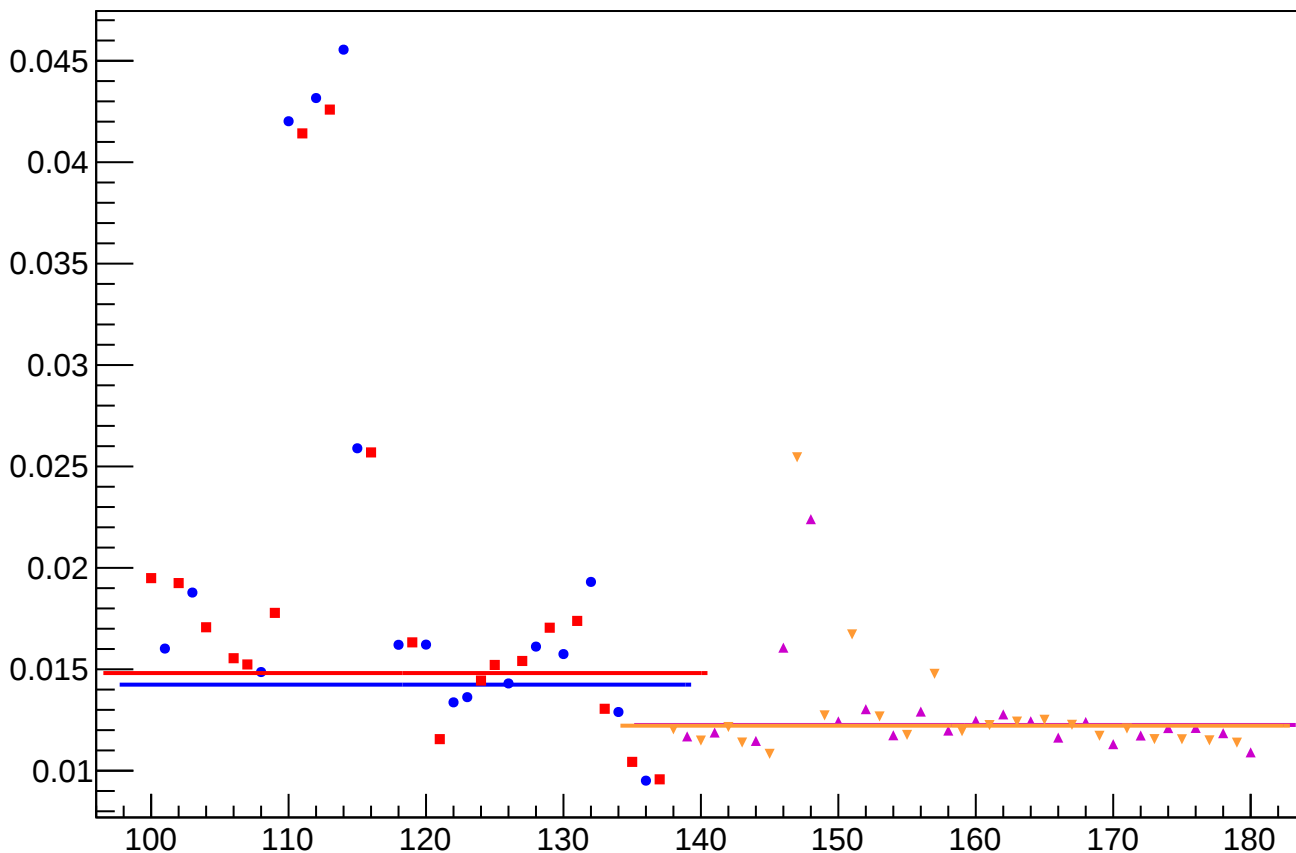
Right: 0.910+/-0.000 χ^2/NDF : 4868922187.9/35

In: 0.765+/-0.000 χ^2/NDF : 3546561802.9/37

Out: 0.778+/-0.000 χ^2/NDF : 3524885171.4/40

All: 0.771+/-0.000 χ^2/NDF : 7083486710.5/78

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 623510.8/21

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012+/-0.000 χ^2/NDF : 469537.3/20

Left: 0.012+/-0.000 χ^2/NDF : 1093176.5/42

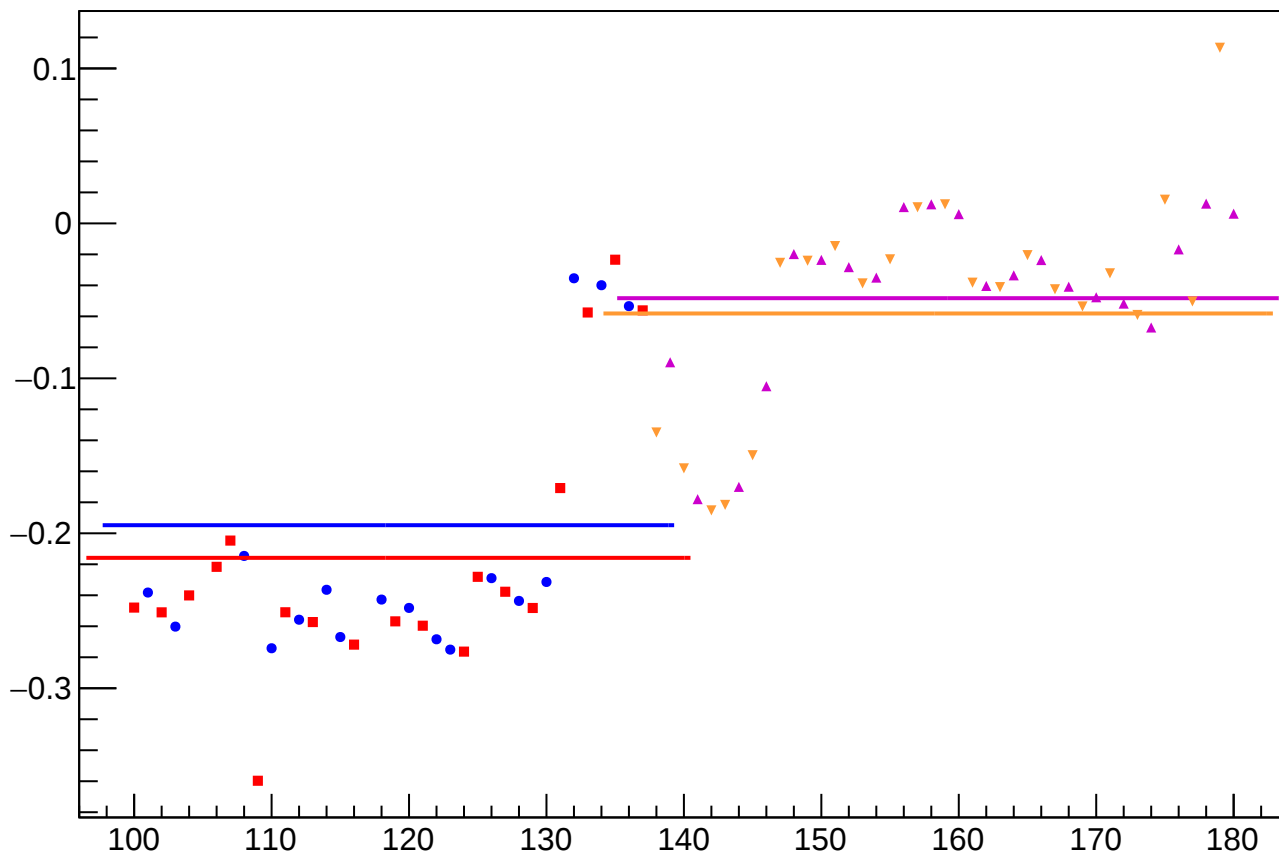
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF : 2058852.1/37

Out: 0.013+/-0.000 χ^2/NDF : 2189592.4/40

All: 0.013+/-0.000 χ^2/NDF : 4249253.6/78

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195 ± 0.000 $\chi^2/\text{NDF}: 108656195.5/16$

Left Out: -0.058 ± 0.000 $\chi^2/\text{NDF}: 143104906.2/21$

Right Out: -0.216 ± 0.000 $\chi^2/\text{NDF}: 111983904.6/18$

Left In: -0.048 ± 0.000 $\chi^2/\text{NDF}: 112757930.4/20$

Left: -0.053 ± 0.000 $\chi^2/\text{NDF}: 257610319.5/42$

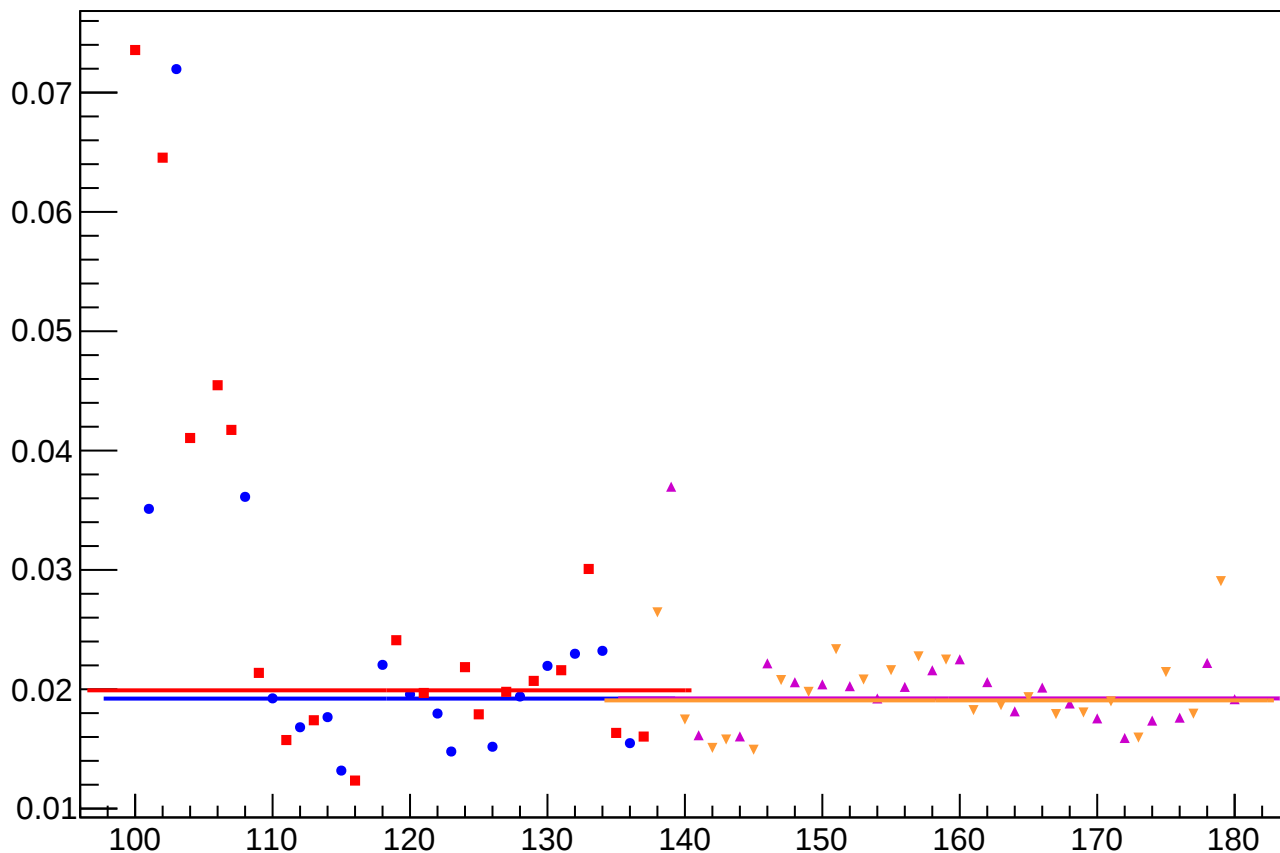
Right: -0.205 ± 0.000 $\chi^2/\text{NDF}: 223598203.8/35$

In: -0.089 ± 0.000 $\chi^2/\text{NDF}: 432494240.7/37$

Out: -0.100 ± 0.000 $\chi^2/\text{NDF}: 493846373.2/40$

All: -0.094 ± 0.000 $\chi^2/\text{NDF}: 929544575.3/78$

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 : 609401.2/21

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 605943.5/20

Left: 0.019+/-0.000 χ^2/NDF : 1216320.7/42

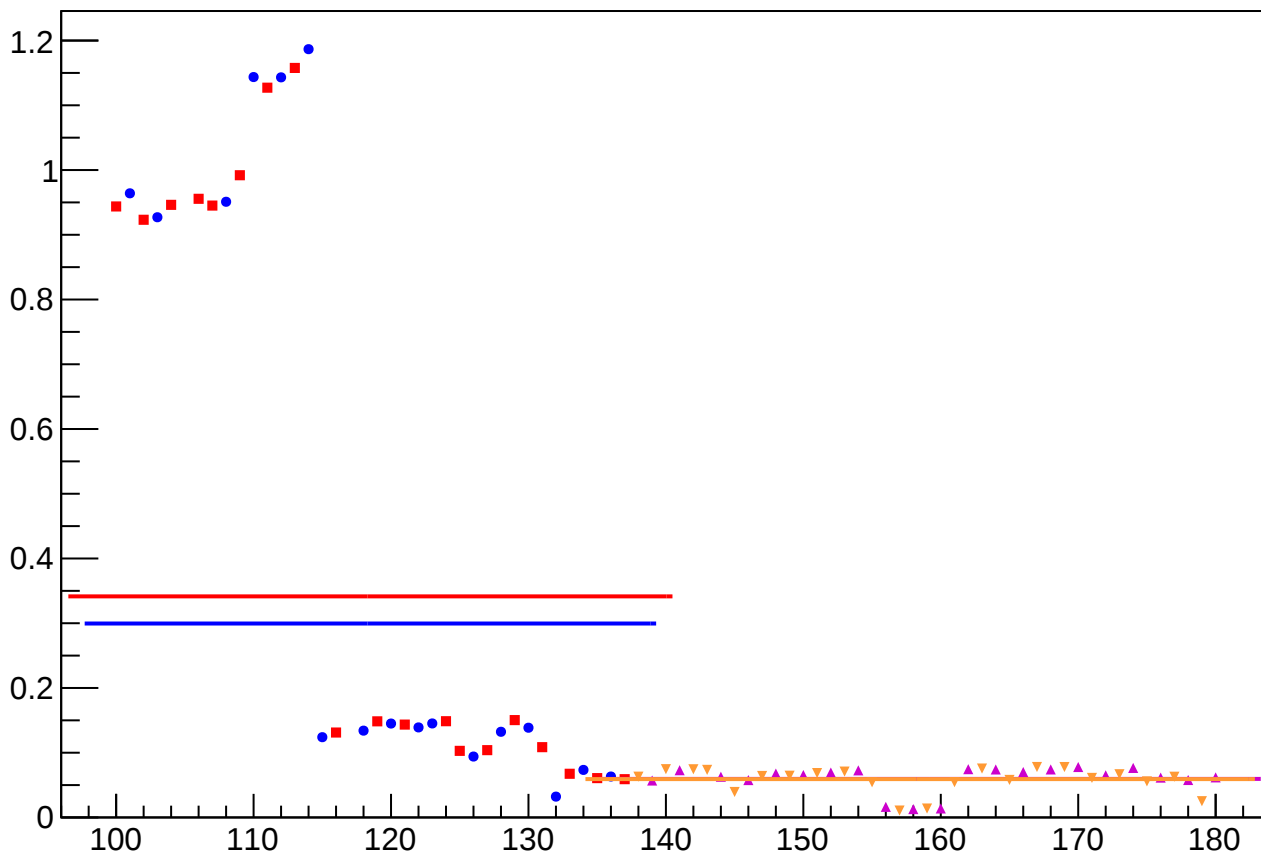
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1783033.8/37

Out: 0.019+/-0.000 χ^2/NDF : 2069968.5/40

All: 0.019+/-0.000 χ^2/NDF : 3853200.4/78

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.059+/-0.000 χ^2/NDF : 45975111.6/21

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.060+/-0.000 χ^2/NDF : 57266116.8/20

Left: 0.059+/-0.000 χ^2/NDF : 103247051.9/42

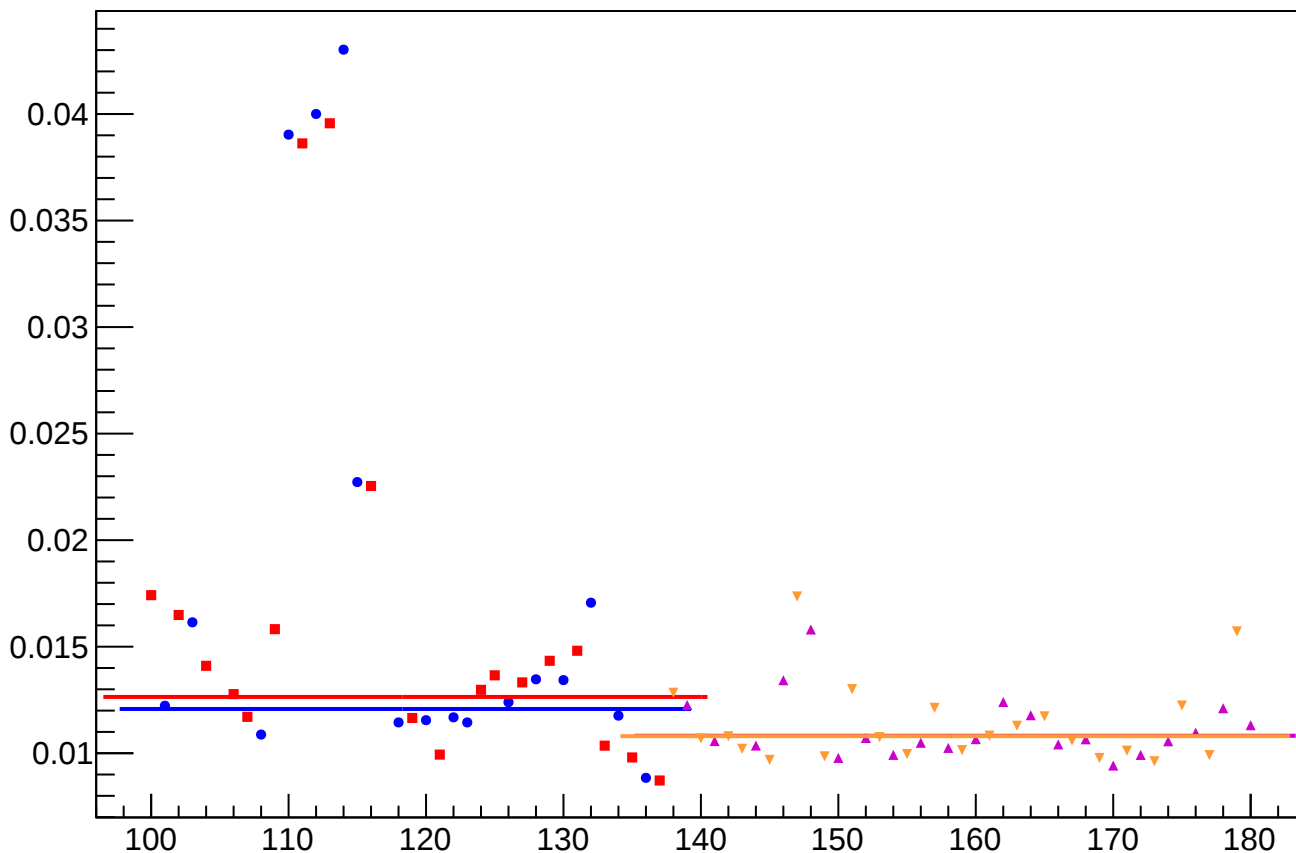
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.114+/-0.000 χ^2/NDF : 6952634768.5/37

Out: 0.121+/-0.000 χ^2/NDF : 7790623765.4/40

All: 0.118+/-0.000 χ^2/NDF : 14747283061.9/77

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:534723.3/21

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:369762.5/20

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 904541.0/42

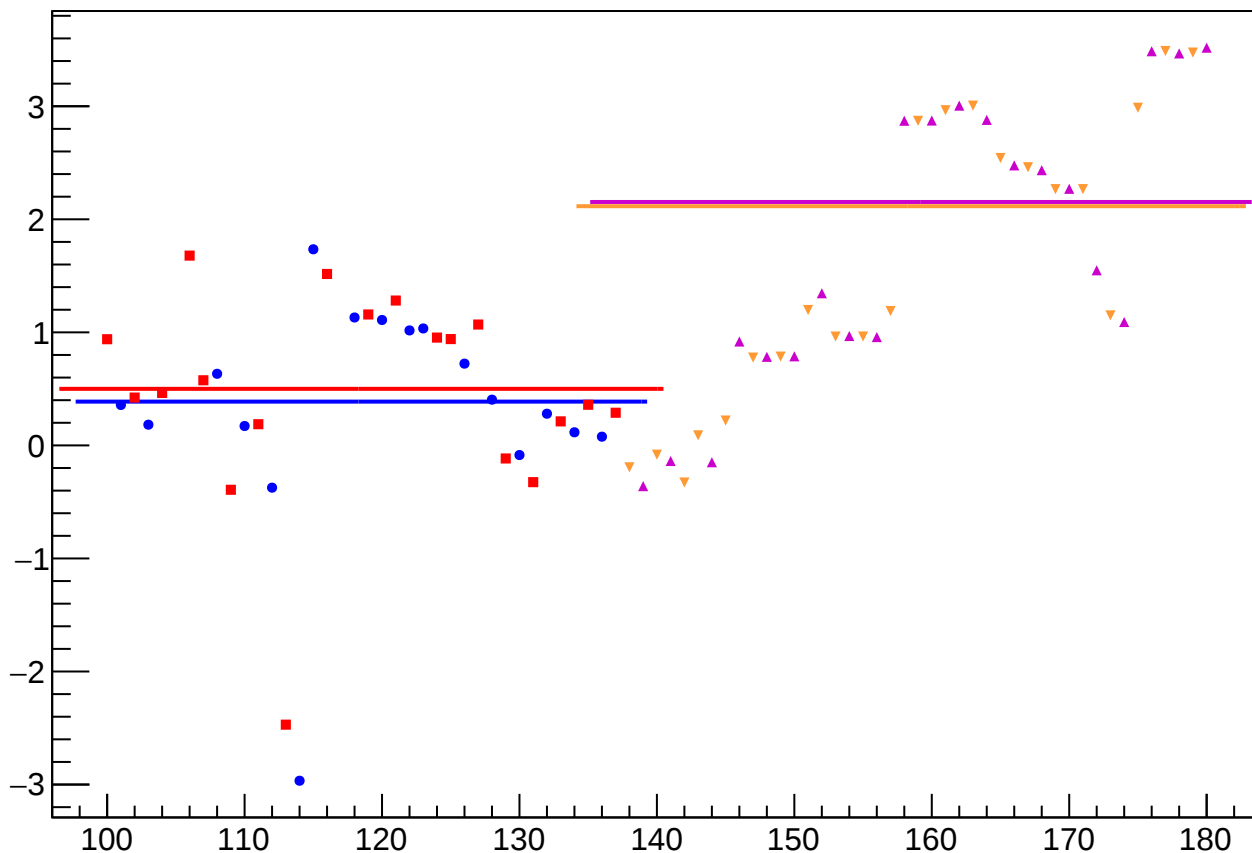
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1746591.0/37

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1967908.3/40

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3716102.1/78

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.000 $\chi^2/\text{NDF}: 247912593.5/16$

Left Out: 2.116 ± 0.000 $\chi^2/\text{NDF}: 42970788285.5/21$

Right Out: 0.500 ± 0.000 $\chi^2/\text{NDF}: 983360928.1/18$

Left In: 2.153 ± 0.000 $\chi^2/\text{NDF}: 48840754703.1/20$

Left: 2.135 ± 0.000 $\chi^2/\text{NDF}: 91843930006.5/42$

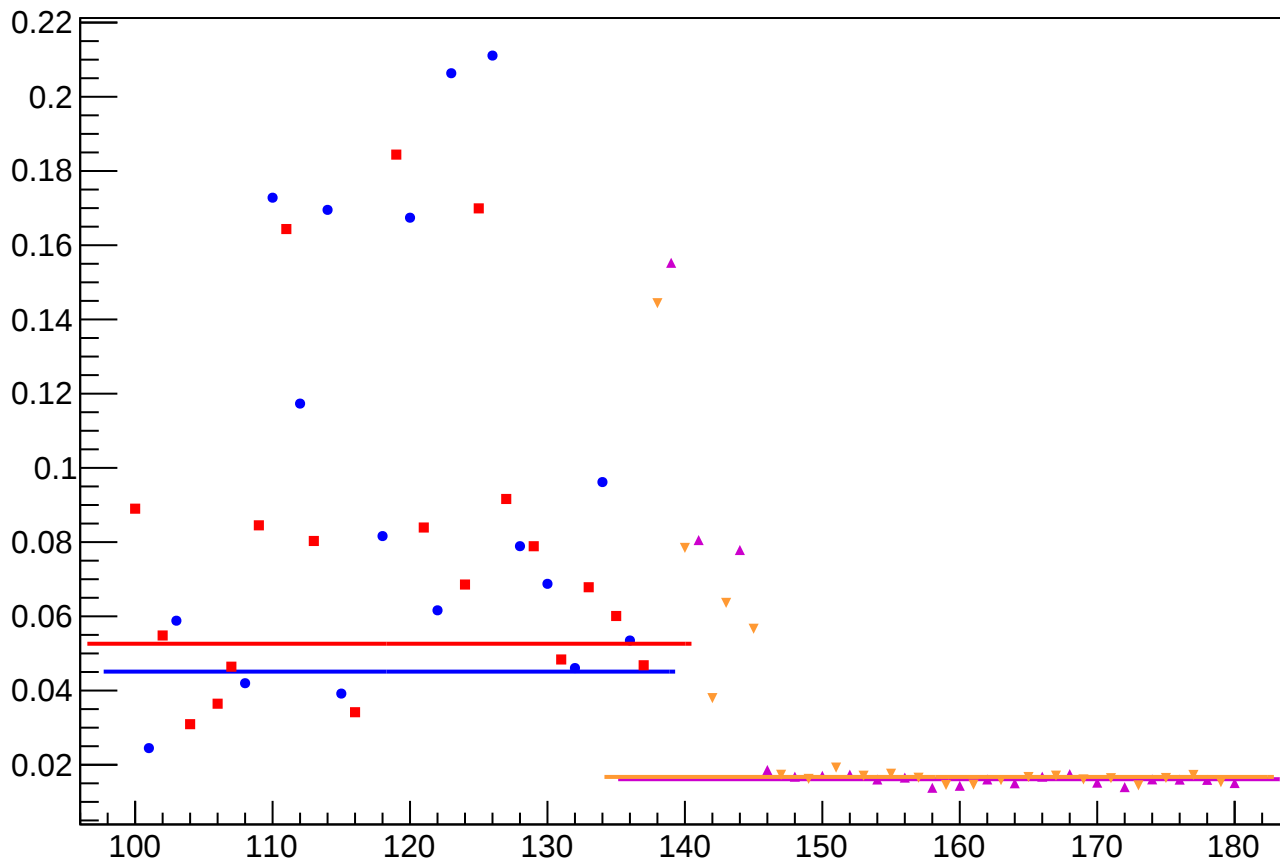
Right: 0.439 ± 0.000 $\chi^2/\text{NDF}: 1241544973.3/35$

In: 2.091 ± 0.000 $\chi^2/\text{NDF}: 54350766325.2/37$

Out: 2.063 ± 0.000 $\chi^2/\text{NDF}: 47723785728.2/40$

All: 2.078 ± 0.000 $\chi^2/\text{NDF}: 102093011102.2$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2846218.9/16

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2789716.8/21

Right Out: 0.053 $\pm$ 0.000 χ^2 /NDF: 2190515.9/18

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2388822.1/20

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5196032.2/42

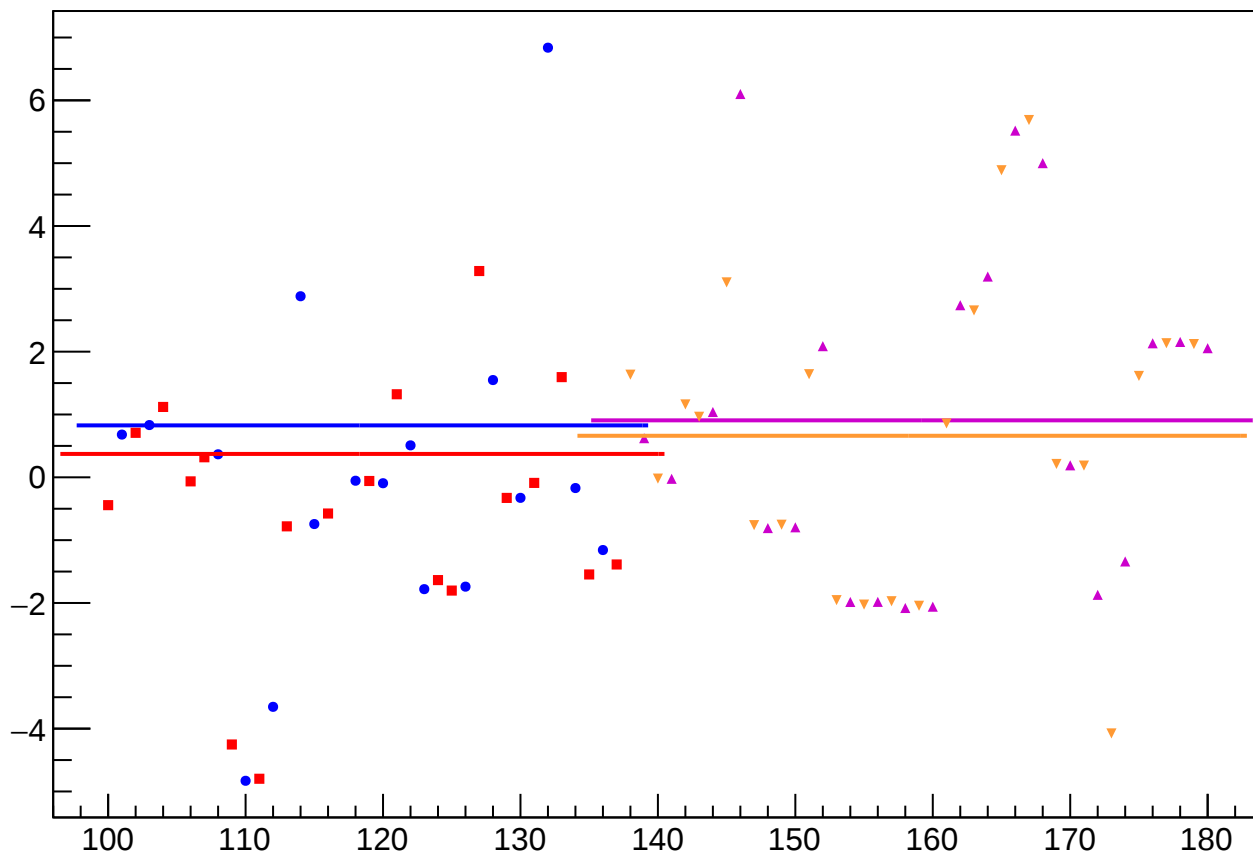
Right: 0.049 $\pm$ 0.000 χ^2 /NDF: 5127581.4/35

In: 0.017 $\pm$ 0.000 χ^2 /NDF:8071745.4/37

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:8700452.4/40

All: 0.017 $\pm$ 0.000 χ^2 /NDF: 16799867.7/78

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000 χ^2/NDF : 10936458870.4/16

Left Out: 0.661+/-0.000 χ^2/NDF : 495661575574.0/21

Right Out: 0.372+/-0.000 χ^2/NDF : 4972900338.2/18

Left In: 0.907+/-0.000 χ^2/NDF : 563170789828.8/20

Left: 0.788+/-0.000 χ^2/NDF : 1061124132748.4/42

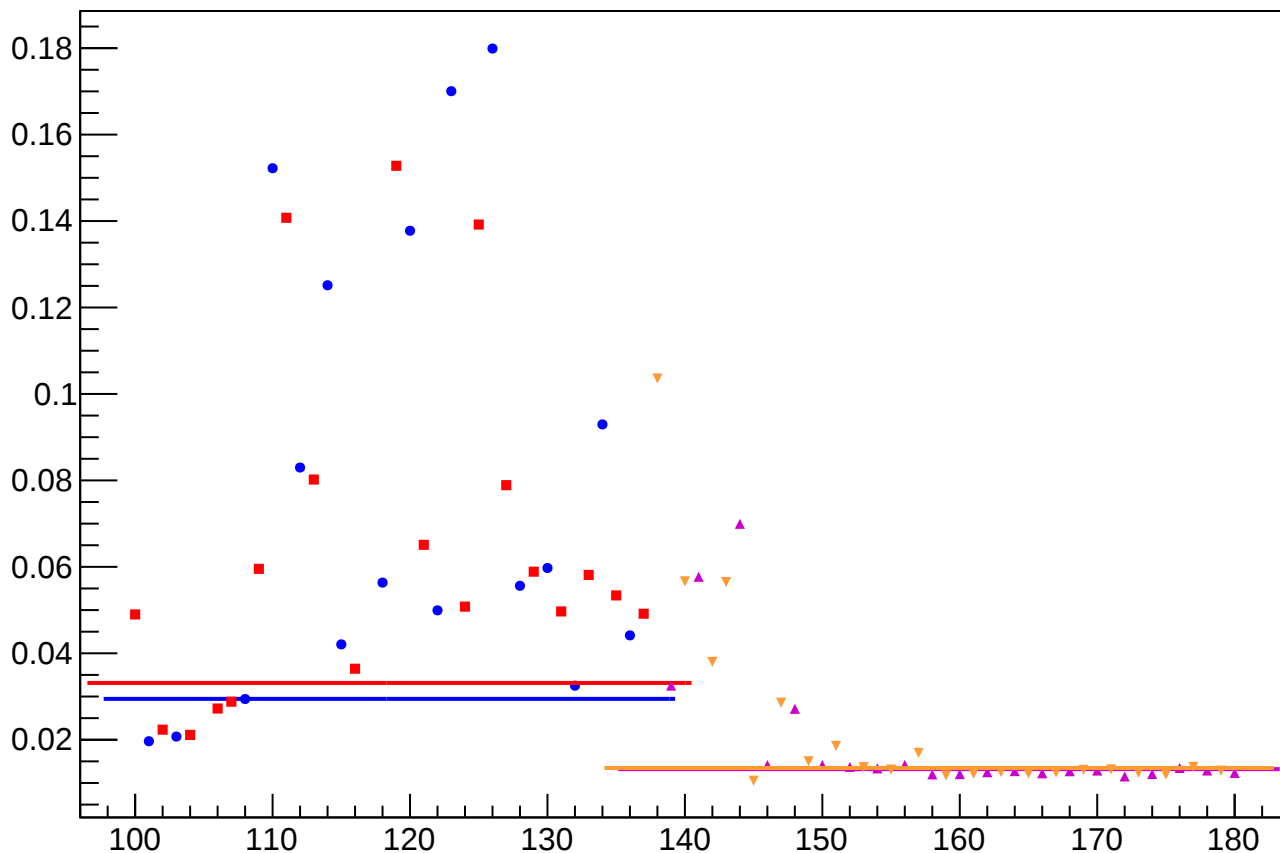
Right: 0.613+/-0.000 χ^2/NDF : 16291516809.6/35

In: 0.903+/-0.000 χ^2/NDF : 574131377512.1/37

Out: 0.648+/-0.000 χ^2/NDF : 500913462749.0/40

All: 0.780+/-0.000 χ^2/NDF : 1077632697394.0/83

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3053519.6/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2895188.1/21

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3096820.9/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1938355.1/20

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4838960.5/42

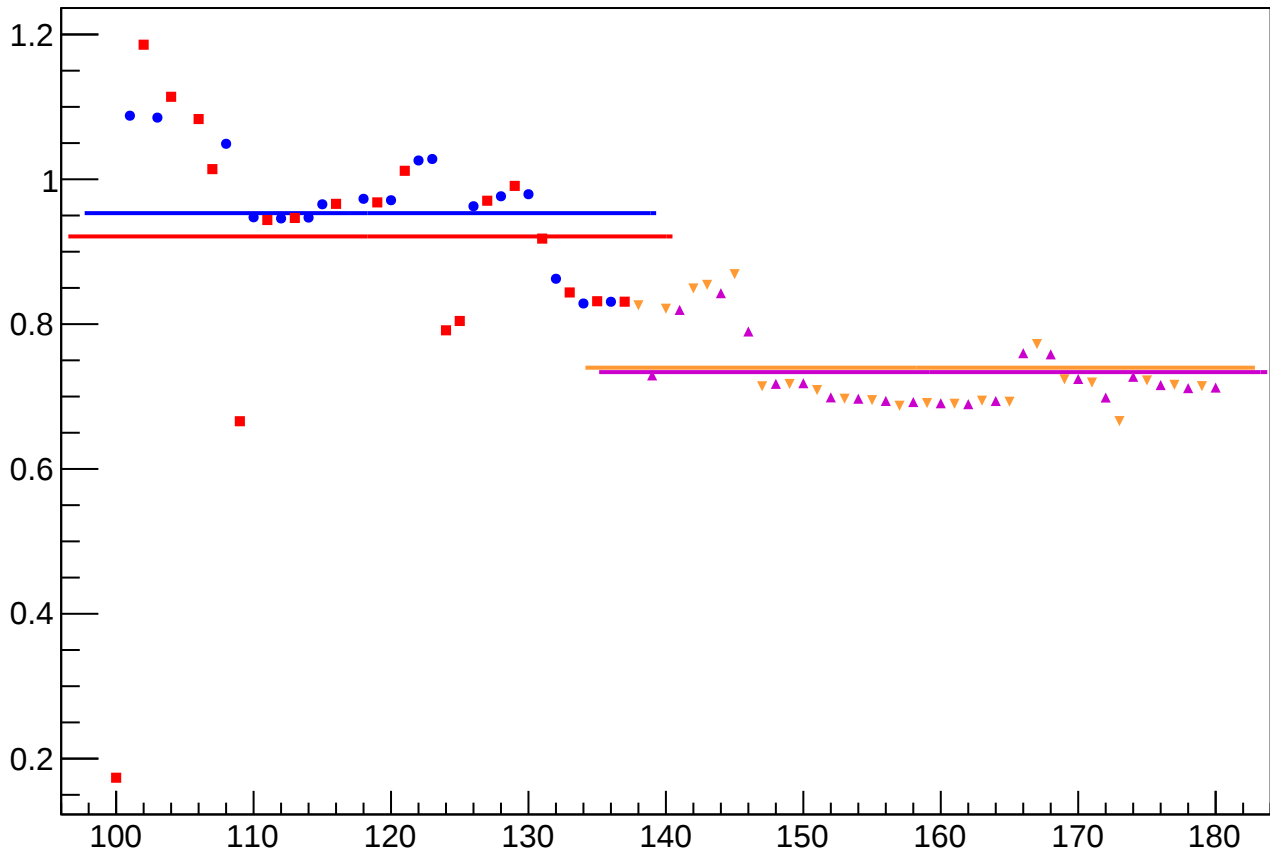
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6200704.9/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6973003.8/37

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:8578901.9/40

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 15563455.2/78

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.740+/-0.000 χ^2/NDF : 293803974.9/21

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.734+/-0.000 χ^2/NDF : 168563422.8/20

Left: 0.737+/-0.000 χ^2/NDF : 463790040.3/42

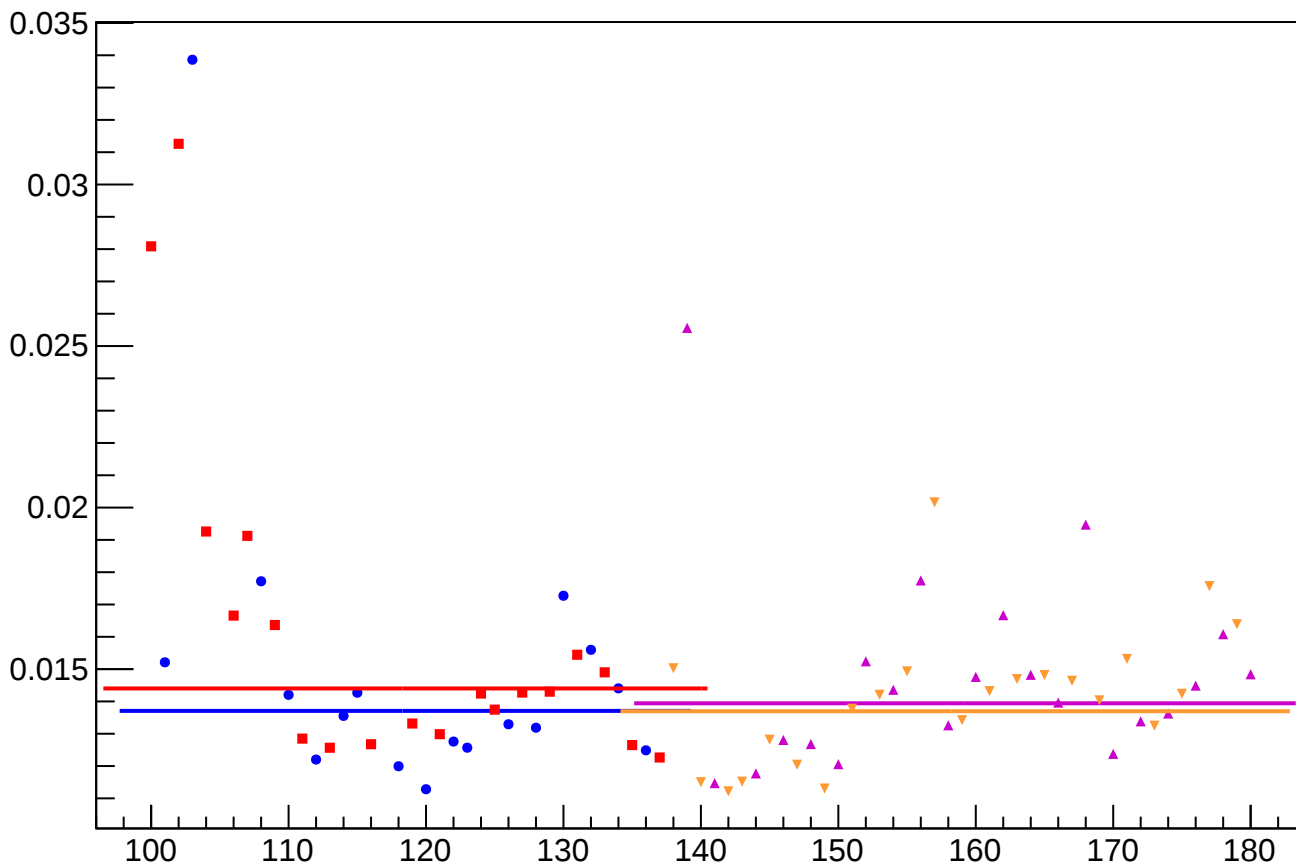
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.798+/-0.000 χ^2/NDF : 1398005447.5/37

Out: 0.790+/-0.000 χ^2/NDF : 1366376065.7/40

All: 0.794+/-0.000 χ^2/NDF : 2768067710.2/78

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 546317.6/16

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 511163.4/21

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 501768.8/18

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 762646.6/20

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1278372.9/42

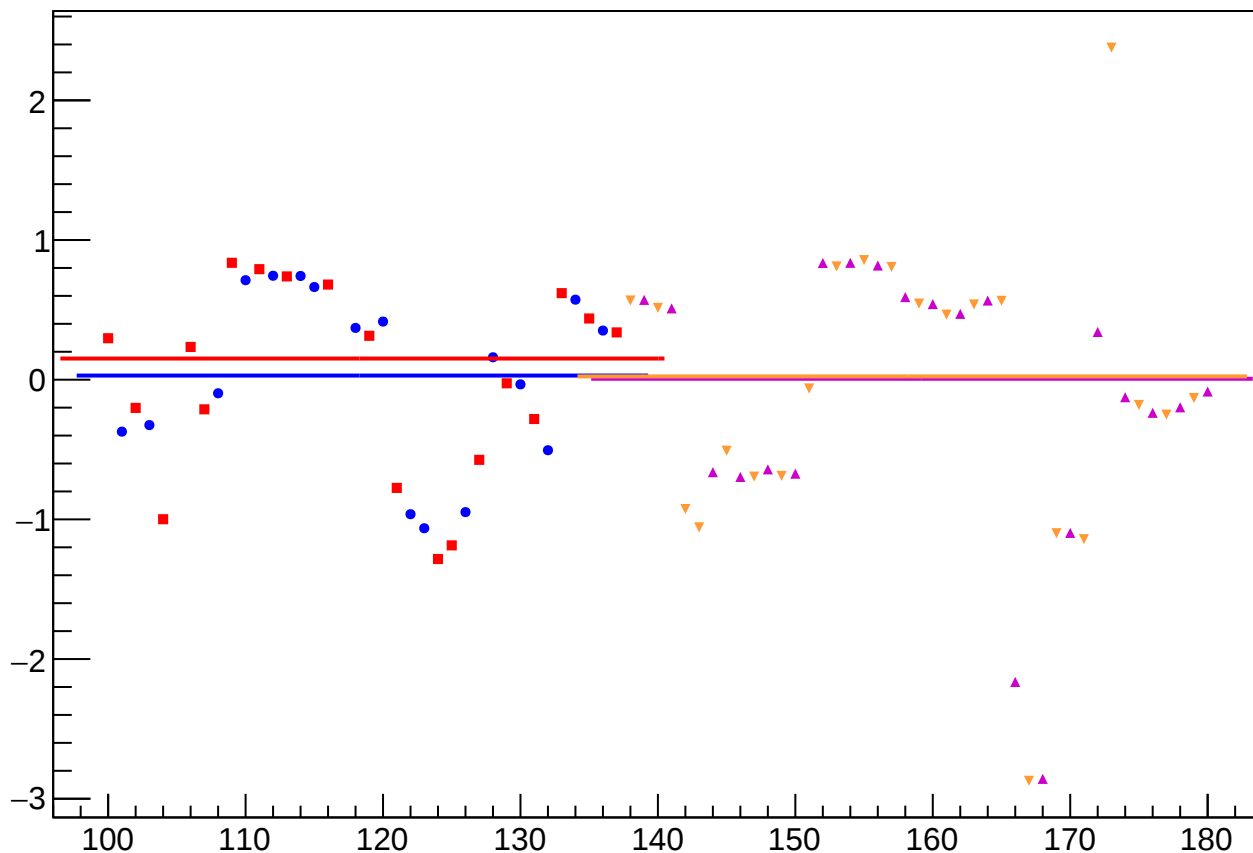
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 1062610.4/35

In: 0.014 $\pm$ 0.000 χ^2/NDF : 1311369.5/37

Out: 0.014 $\pm$ 0.000 χ^2/NDF : 1034073.2/40

All: 0.014 $\pm$ 0.000 χ^2/NDF : 2345476.5/78

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2/NDF : 6294824795.0/16

Left Out: 0.024 $\pm$ 0.000 χ^2/NDF : 95589807797.8/21

Right Out: 0.152 $\pm$ 0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.007 $\pm$ 0.000 χ^2/NDF : 78804386177.6/20

Left: 0.015 $\pm$ 0.000 χ^2/NDF : 174408335198.1/42

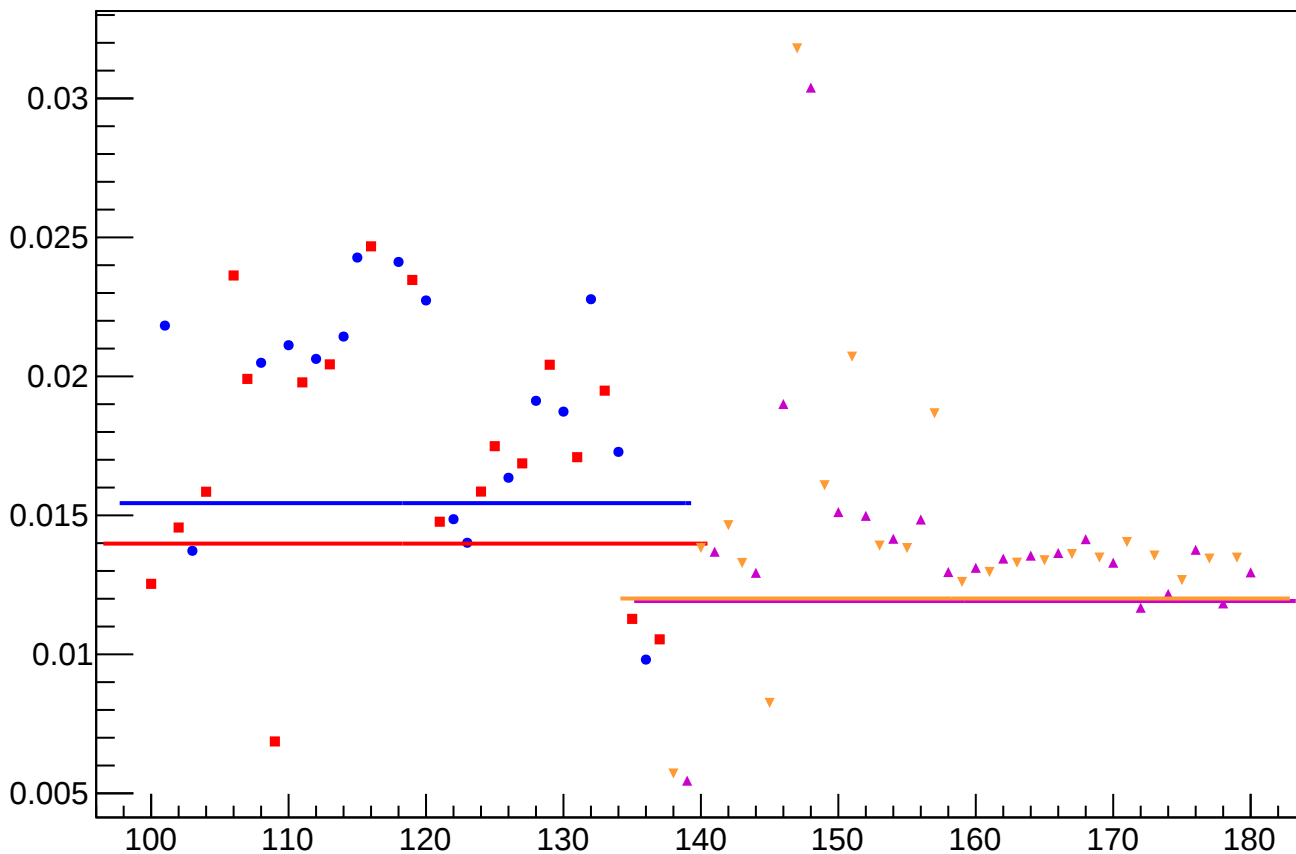
Right: 0.096 $\pm$ 0.000 χ^2/NDF : 19149304558.7/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 85109366936.3/37

Out: 0.052 $\pm$ 0.000 χ^2/NDF : 108615176750.5/40

All: 0.032 $\pm$ 0.000 χ^2/NDF : 193830774155.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3084462.1/21

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2980677.8/20

Left: 0.012+/-0.000 χ^2/NDF : 6065941.9/42

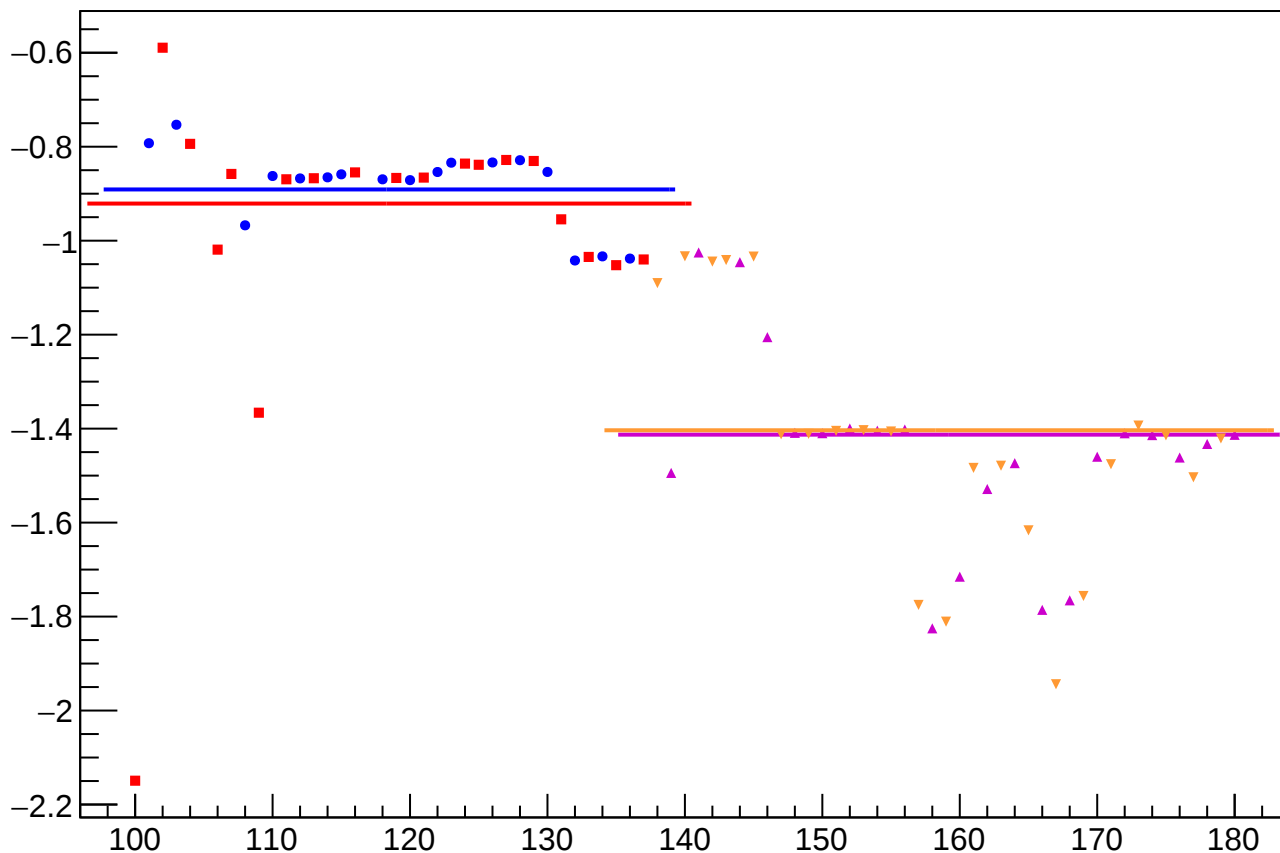
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4617028.4/37

Out: 0.012+/-0.000 χ^2/NDF : 4818382.2/40

All: 0.013+/-0.000 χ^2/NDF : 9438115.7/78

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721707100.6/21$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.413 ± 0.000 $\chi^2/\text{NDF}: 512266052.2/20$

Left: -1.408 ± 0.000 $\chi^2/\text{NDF}: 1234461599.9/42$

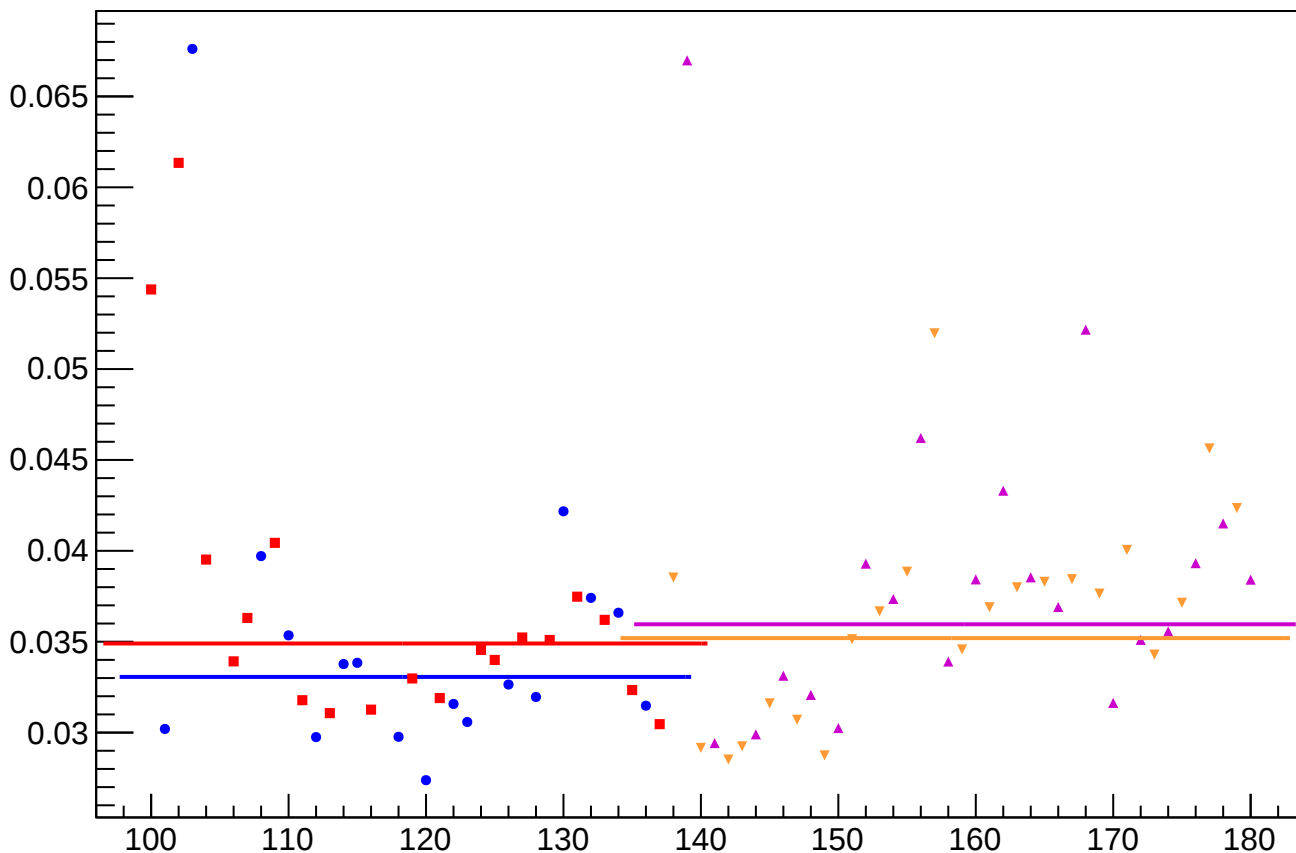
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.242 ± 0.000 $\chi^2/\text{NDF}: 1536651254.5/37$

Out: -1.257 ± 0.000 $\chi^2/\text{NDF}: 1671507216.0/40$

All: -1.250 ± 0.000 $\chi^2/\text{NDF}: 3209879104.9/77$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.035+/-0.000 χ^2/NDF :576545.1/21

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.036+/-0.000 χ^2/NDF :855255.3/20

Left: 0.036+/-0.000 χ^2/NDF : 1438365.9/42

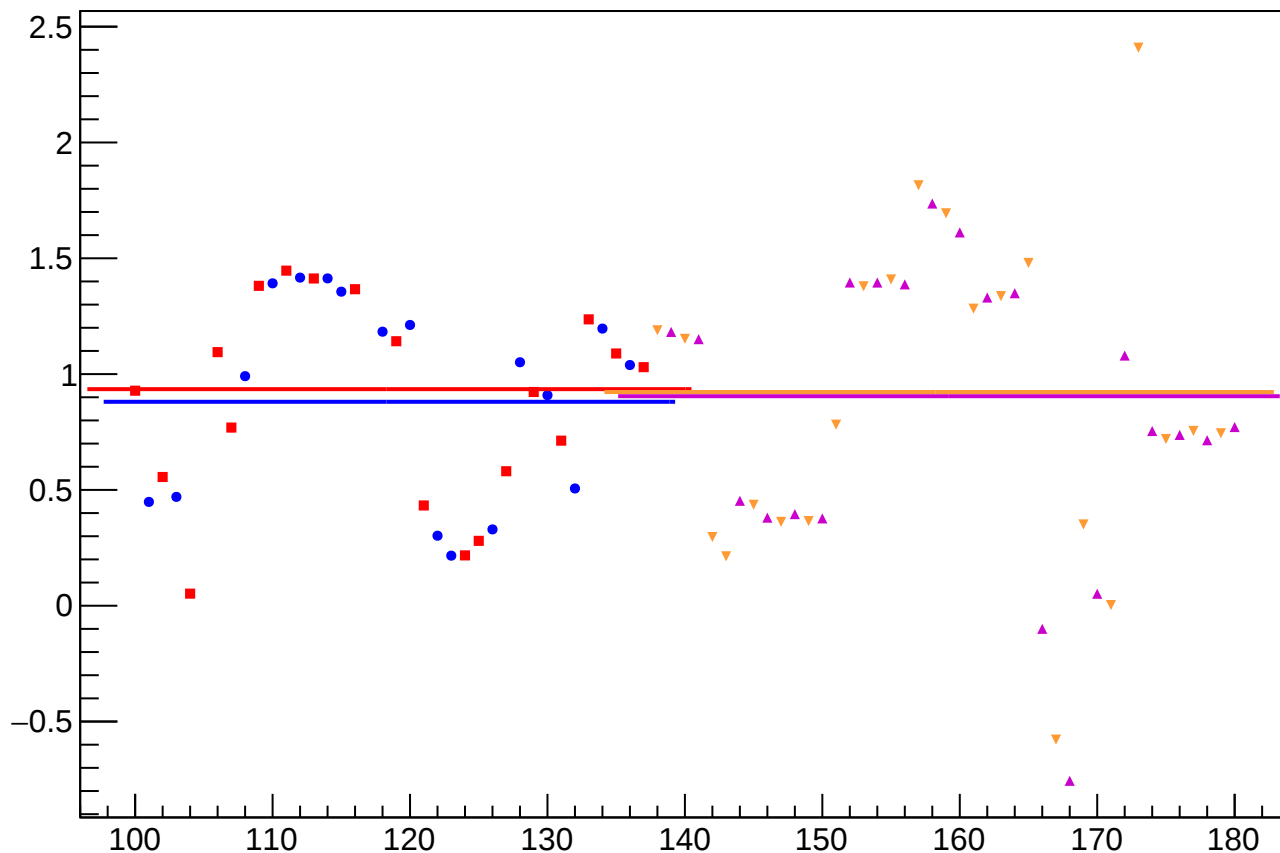
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF :1325219.4/37

Out: 0.035+/-0.000 χ^2/NDF :851427.3/40

All: 0.035+/-0.000 χ^2/NDF : 2176794.7/78

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000

χ^2 /NDF: 6400108121.4/16

Left: 0.914 $\pm$ 0.000 χ^2 /NDF: 149653615644.4/42

Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

Left Out: 0.923 $\pm$ 0.000

χ^2 /NDF: 83239756643.7/21

In: 0.899 $\pm$ 0.000 χ^2 /NDF: 72806473644.9/37

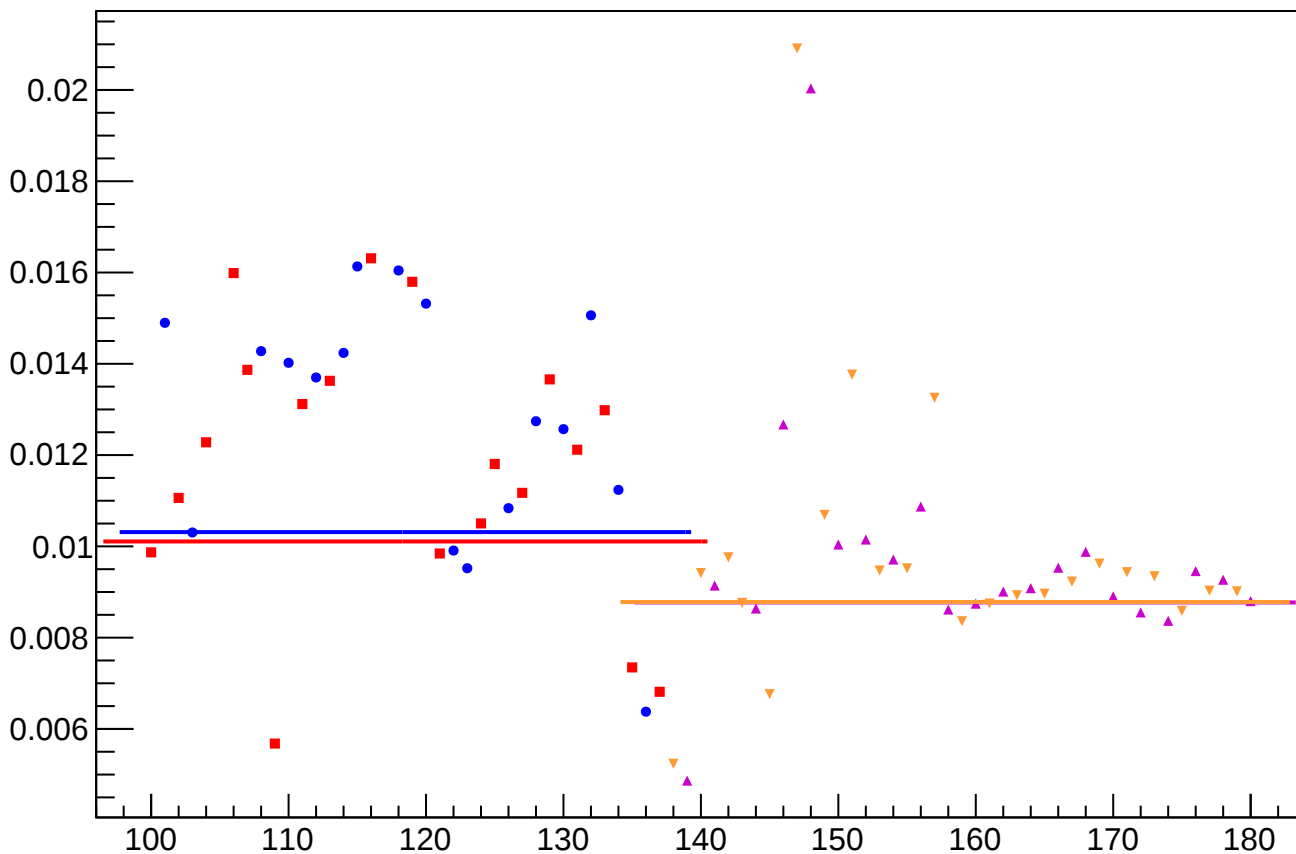
Out: 0.925 $\pm$ 0.000 χ^2 /NDF: 93080058725.1/40

Right Out: 0.935 $\pm$ 0.000 χ^2 /NDF: 9833525935.6/18

Left In: 0.905 $\pm$ 0.000 χ^2 /NDF: 66382318388.2/20

All: 0.913 $\pm$ 0.000 χ^2 /NDF: 165970876962.9

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 :1696550.7/21

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1607893.1/20

Left: 0.009+/-0.000 χ^2/NDF : 3304462.1/42

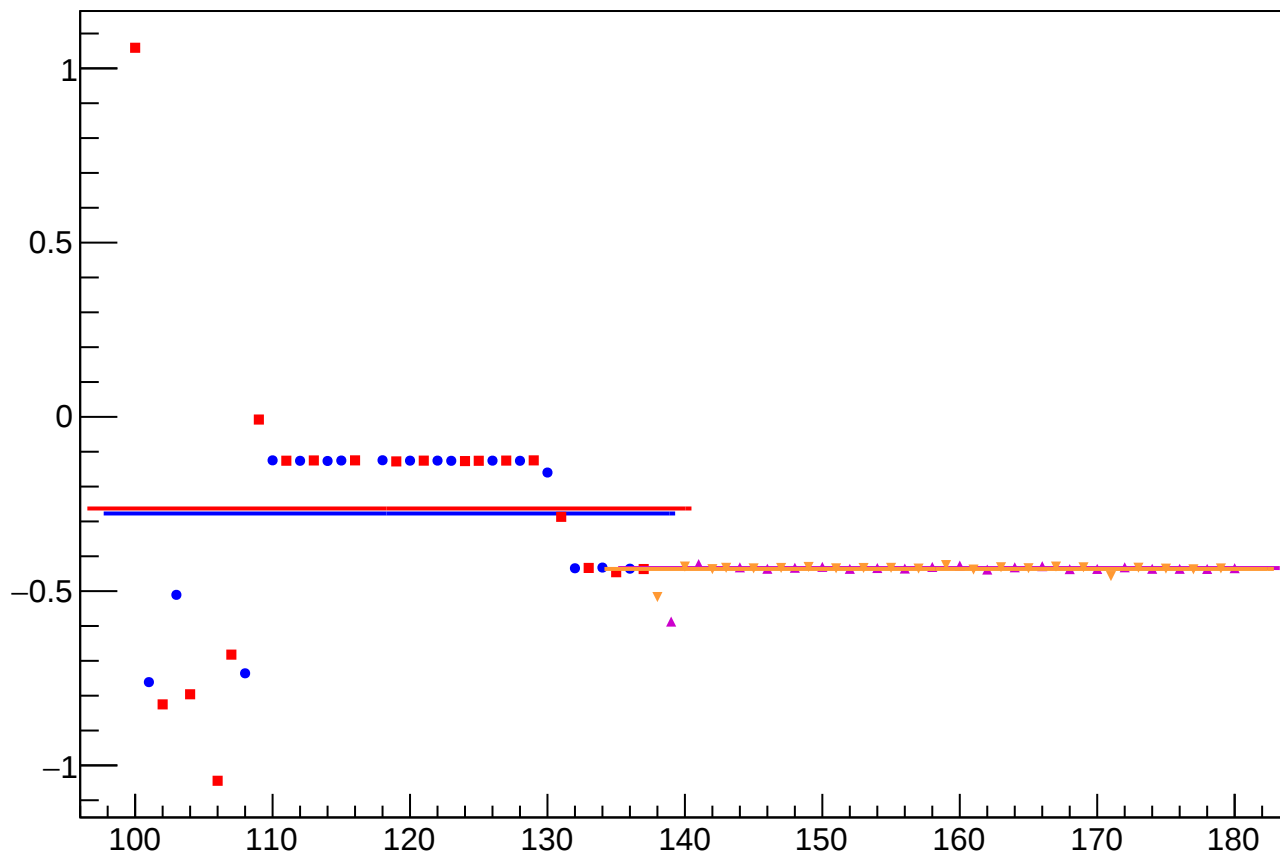
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3035466.5/37

Out: 0.009+/-0.000 χ^2/NDF :3030584.2/40

All: 0.009+/-0.000 χ^2/NDF : 6066180.3/78

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 $\chi^2/\text{NDF}: 940562986.7/16$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28766378.8/21$

Right Out: -0.263 ± 0.000 $\chi^2/\text{NDF}: 1008398102.0/18$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23788321.5/20$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53012828.5/42$

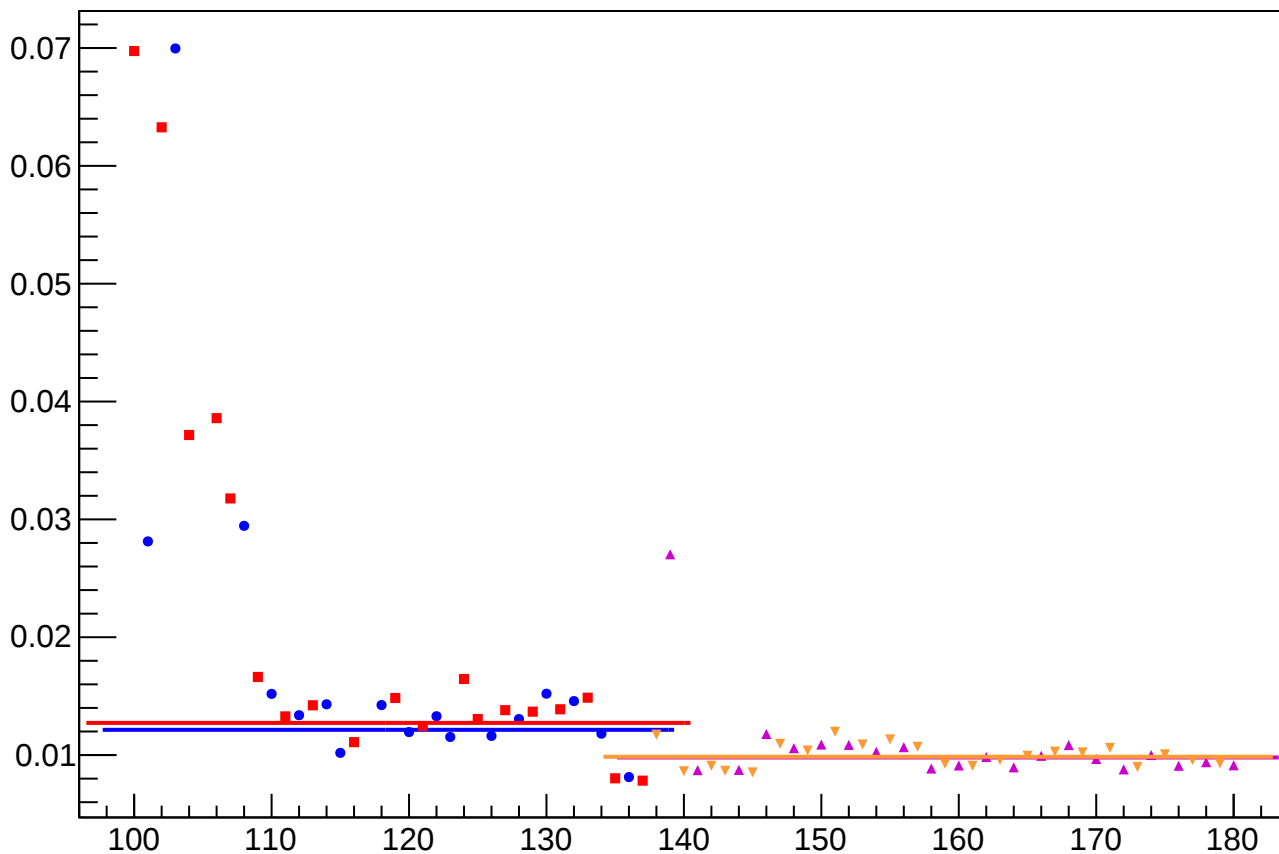
Right: -0.270 ± 0.000 $\chi^2/\text{NDF}: 1952121842.2/35$

In: -0.405 ± 0.000 $\chi^2/\text{NDF}: 1604719122.3/37$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 1782126008.8/40$

All: -0.406 ± 0.000 $\chi^2/\text{NDF}: 3387027959.2/77$

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 :253617.0/21

Right Out: 0.013+/-0.000 χ^2/NDF : 1969165.0/18

Left In: 0.010+/-0.000 χ^2/NDF :745797.2/20

Left: 0.010+/-0.000 χ^2/NDF : 999942.2/42

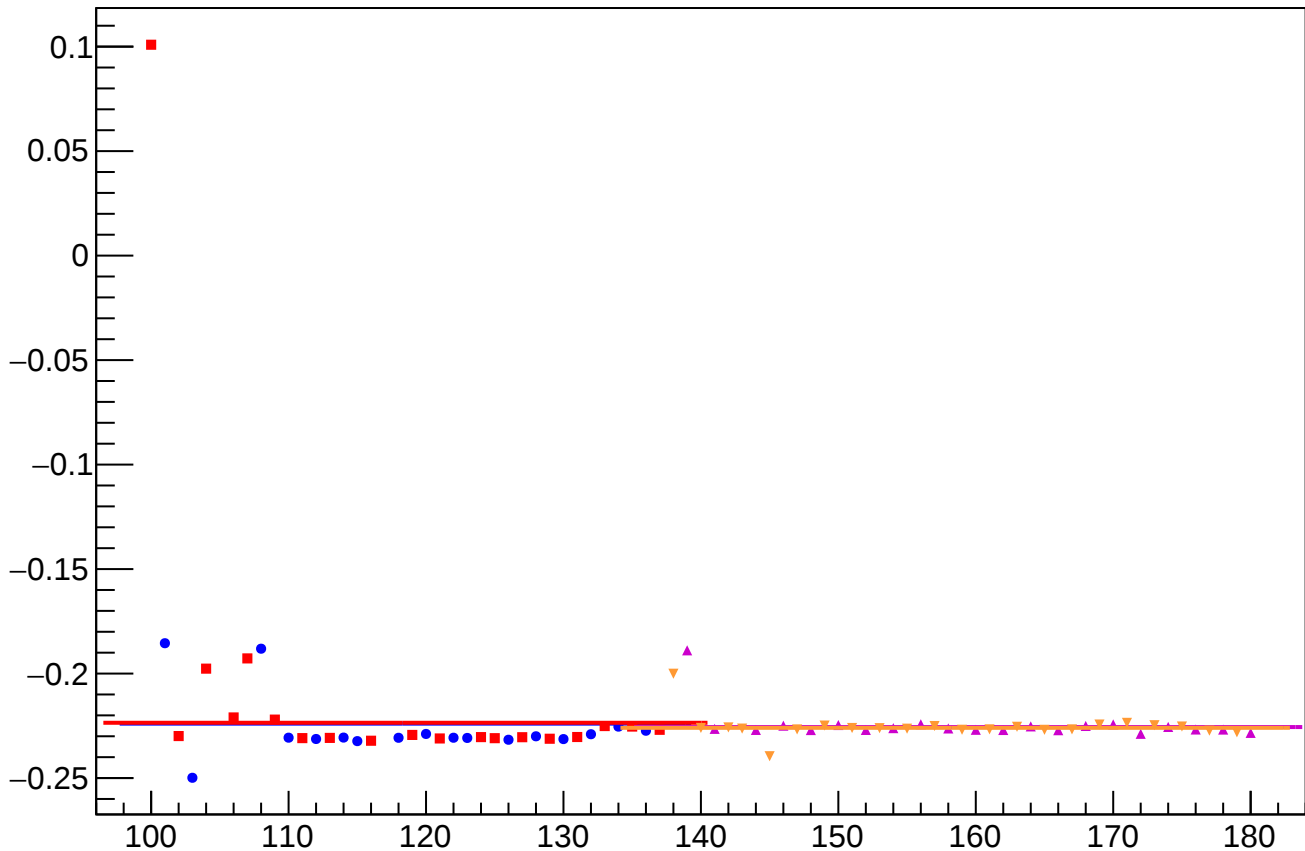
Right: 0.012+/-0.000 χ^2/NDF : 3707277.9/35

In: 0.010+/-0.000 χ^2/NDF :2761456.3/37

Out: 0.010+/-0.000 χ^2/NDF :2632033.1/40

All: 0.010+/-0.000 χ^2/NDF : 5396160.7/78

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 : 21091142.0/21

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.226+/-0.000 χ^2/NDF : 15099054.5/20

Left: -0.226+/-0.000 χ^2/NDF : 36228435.4/42

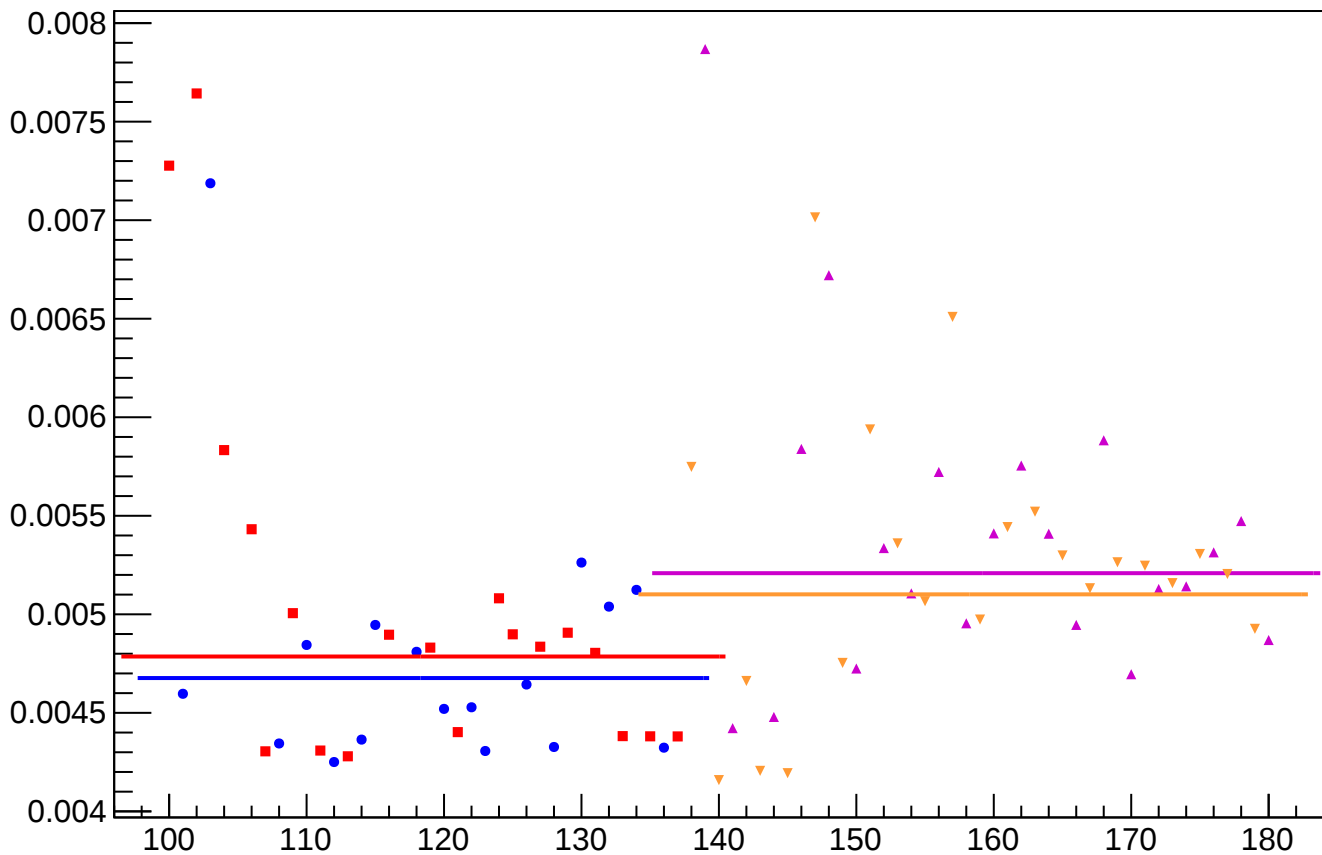
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 90306259.5/37

Out: -0.225+/-0.000 χ^2/NDF : 190321129.2/40

All: -0.225+/-0.000 χ^2/NDF : 280635149.3/78

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 : 456258.9/21

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 438895.7/20

Left: 0.005+/-0.000 χ^2/NDF : 901841.9/42

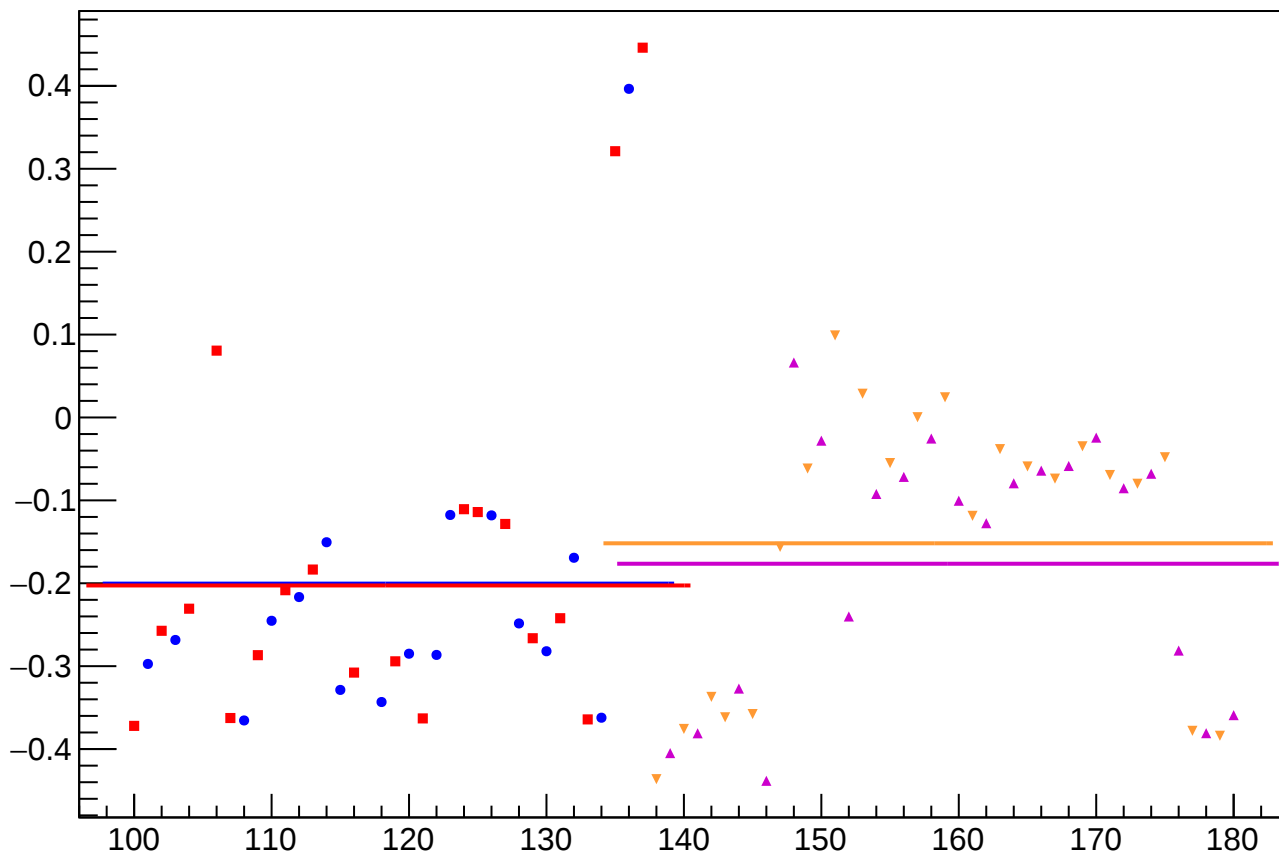
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 725266.7/37

Out: 0.005+/-0.000 χ^2/NDF : 742281.4/40

All: 0.005+/-0.000 χ^2/NDF : 1468498.3/78

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.152 ± 0.000 $\chi^2/\text{NDF}: 14569823179.6/21$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.176 ± 0.000 $\chi^2/\text{NDF}: 11509972975.1/20$

Left: -0.164 ± 0.000 $\chi^2/\text{NDF}: 26239700912.4/42$

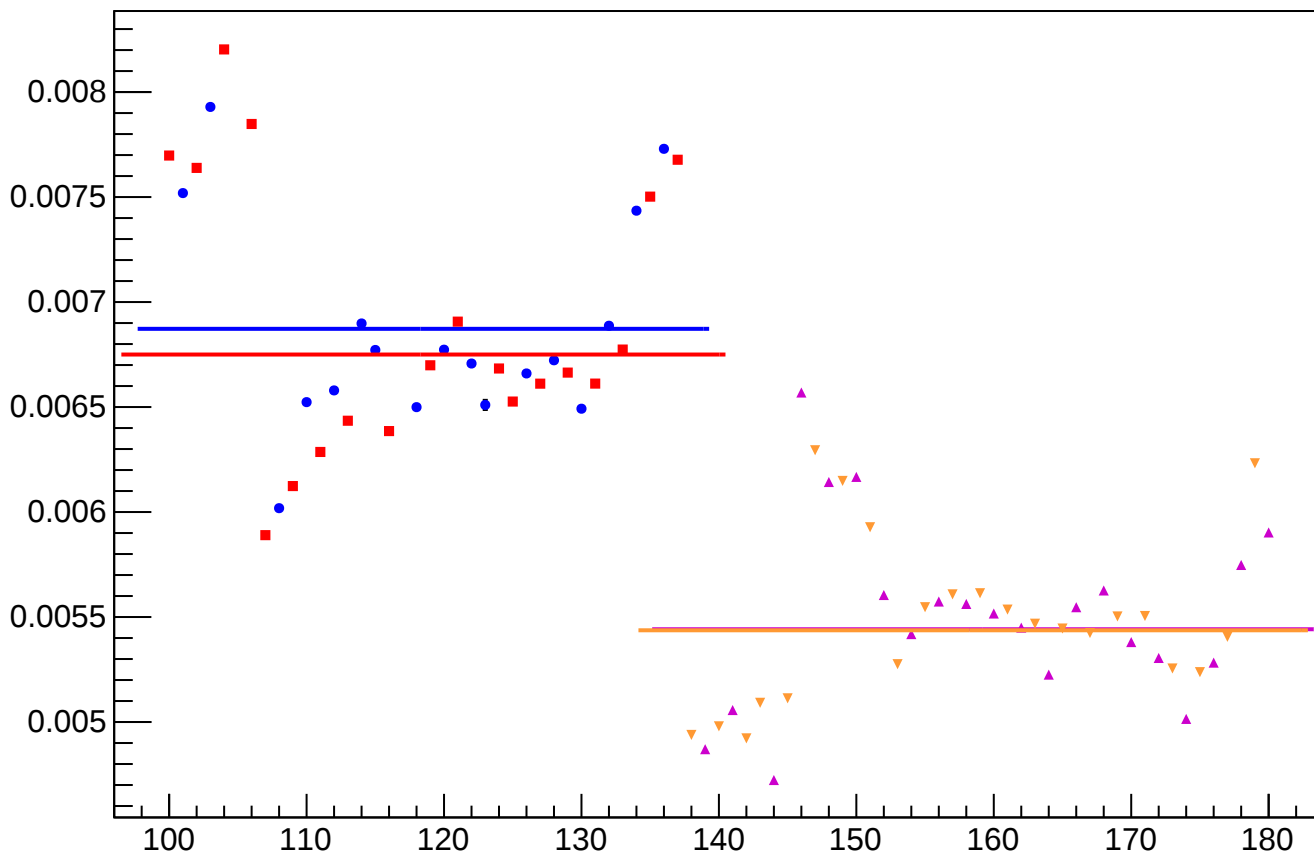
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.182 ± 0.000 $\chi^2/\text{NDF}: 17546605688.3/37$

Out: -0.163 ± 0.000 $\chi^2/\text{NDF}: 19902067751.0/40$

All: -0.172 ± 0.000 $\chi^2/\text{NDF}: 37563021076.8/100$

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 :135576.5/21

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :176019.4/20

Left: 0.005+/-0.000 χ^2/NDF : 311608.8/42

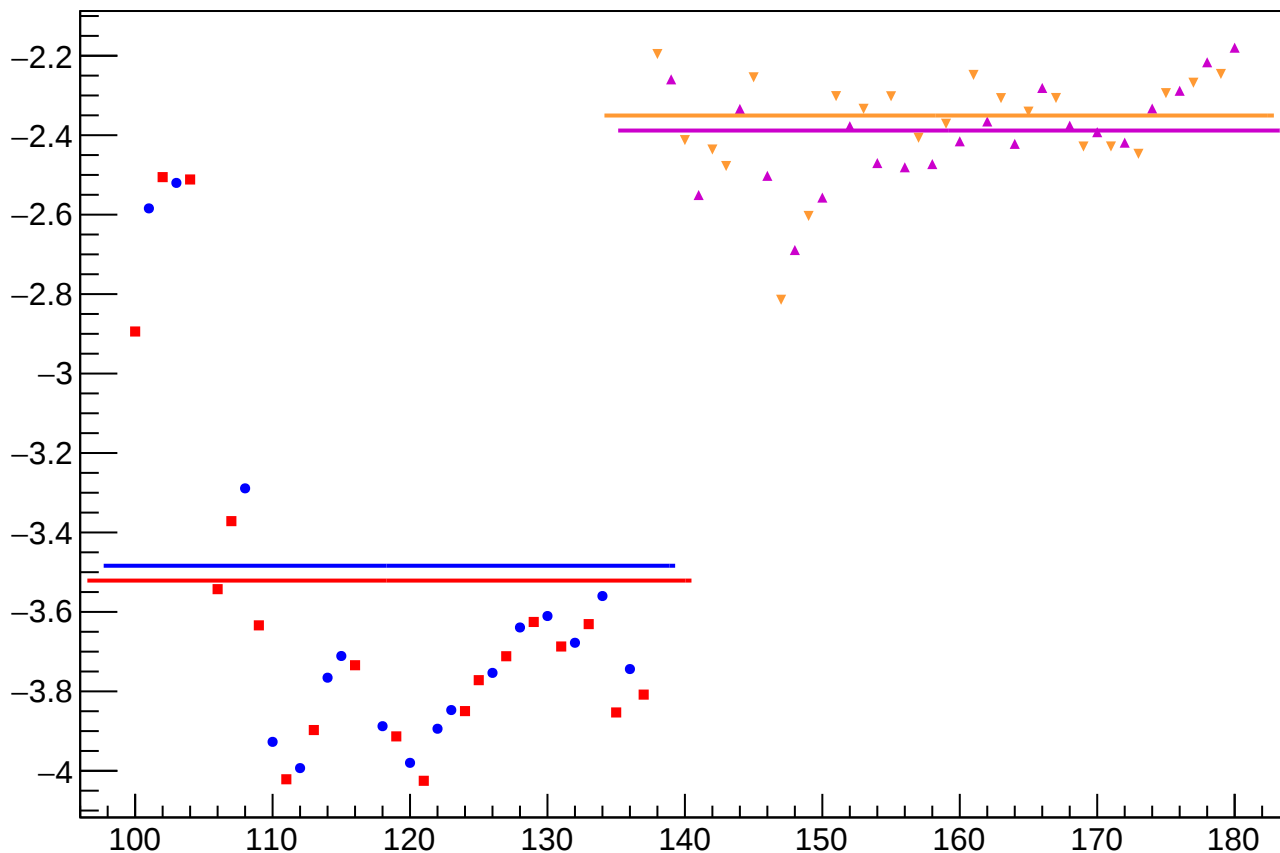
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :703555.6/37

Out: 0.006+/-0.000 χ^2/NDF :646024.2/40

All: 0.006+/-0.000 χ^2/NDF : 1349750.9/78

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.350+/-0.000 χ^2/NDF : 2111791335.9/21

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.388+/-0.000 χ^2/NDF : 2171284376.3/20

Left: -2.369+/-0.000 χ^2/NDF : 4428743083.9/42

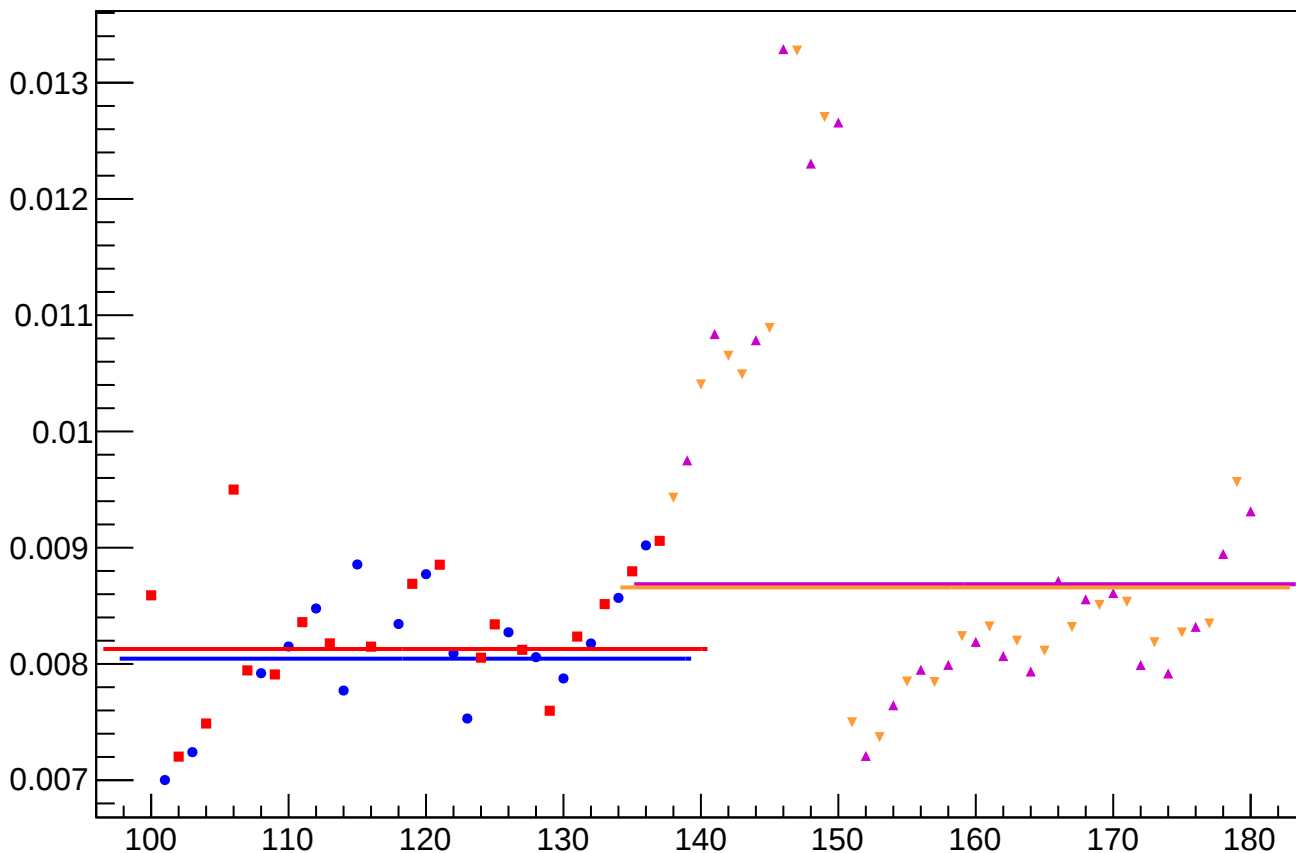
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.753+/-0.000 χ^2/NDF : 109855160709.9/37

Out: -2.739+/-0.000 χ^2/NDF : 122413482471.6/40

All: -2.746+/-0.000 χ^2/NDF : 232296642226.4

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 : 619352.1/21

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 738439.8/20

Left: 0.009+/-0.000 χ^2/NDF : 1357946.2/42

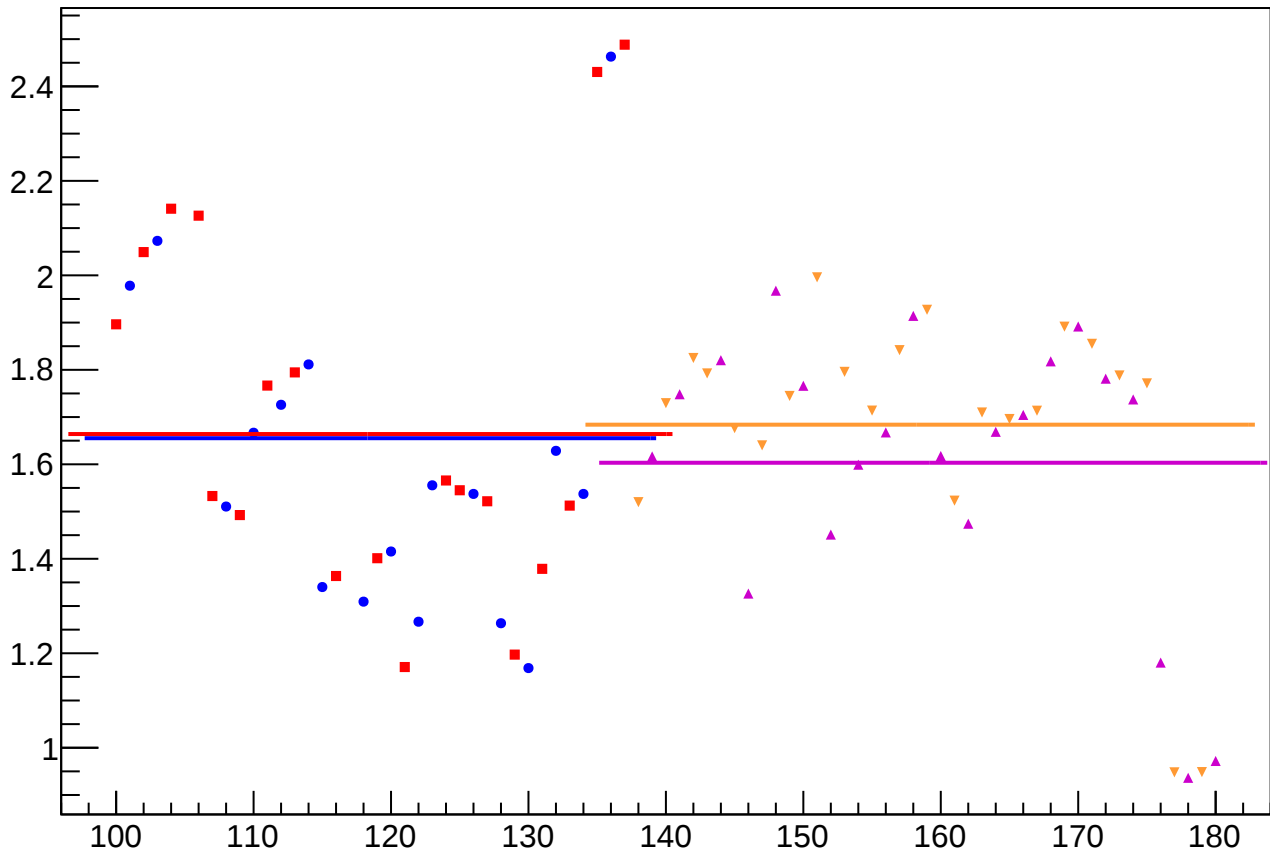
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 865444.0/37

Out: 0.008+/-0.000 χ^2/NDF : 715216.2/40

All: 0.008+/-0.000 χ^2/NDF : 1580689.2/78

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.684+/-0.000 χ^2/NDF : 9930454350.5/21

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.603+/-0.000 χ^2/NDF : 11401345866.3/20

Left: 1.644+/-0.000 χ^2/NDF : 21792081247.1/42

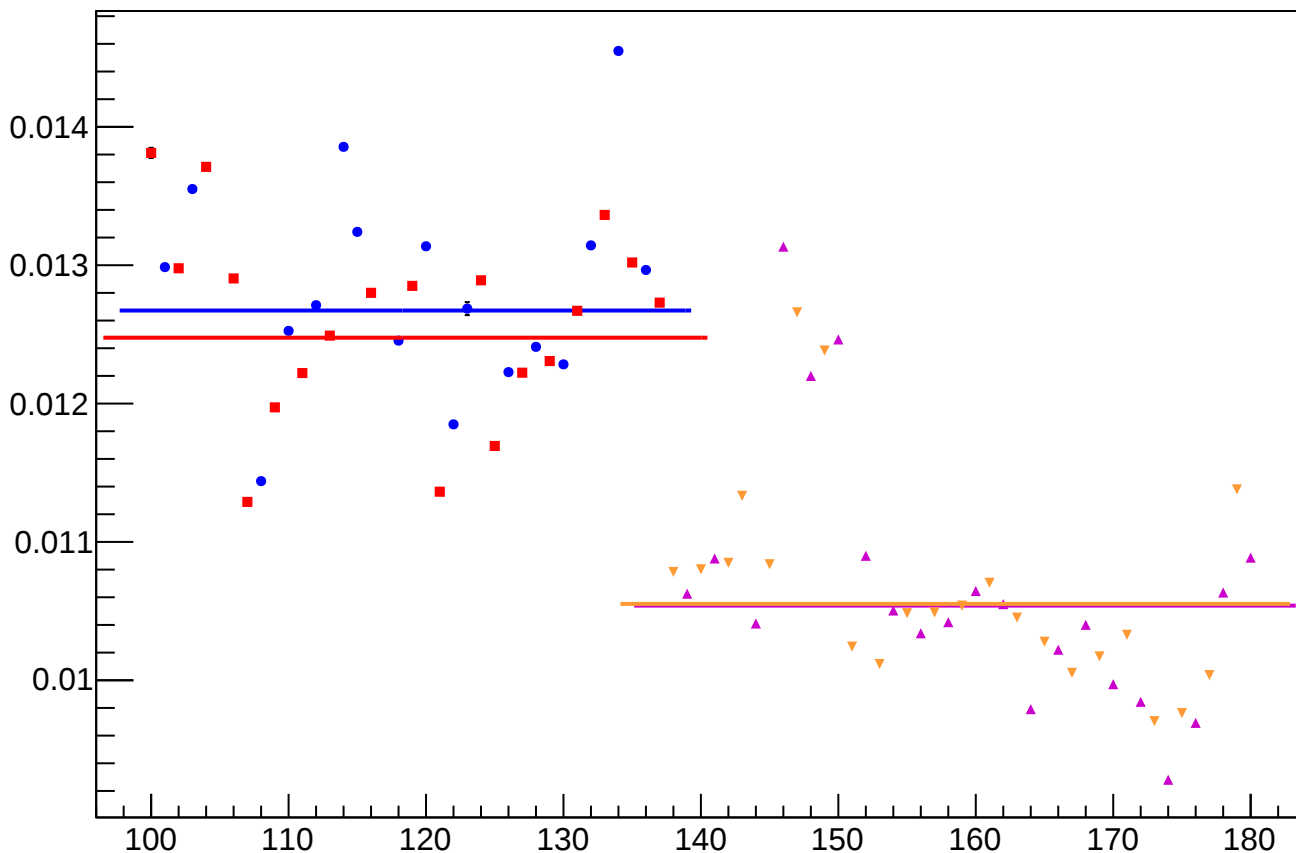
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.615+/-0.000 χ^2/NDF : 17963252206.2/37

Out: 1.679+/-0.000 χ^2/NDF : 15887979709.7/40

All: 1.648+/-0.000 χ^2/NDF : 34231006005.8/77

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :128027.6/21

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :183723.6/20

Left: 0.011+/-0.000 χ^2/NDF : 311772.9/42

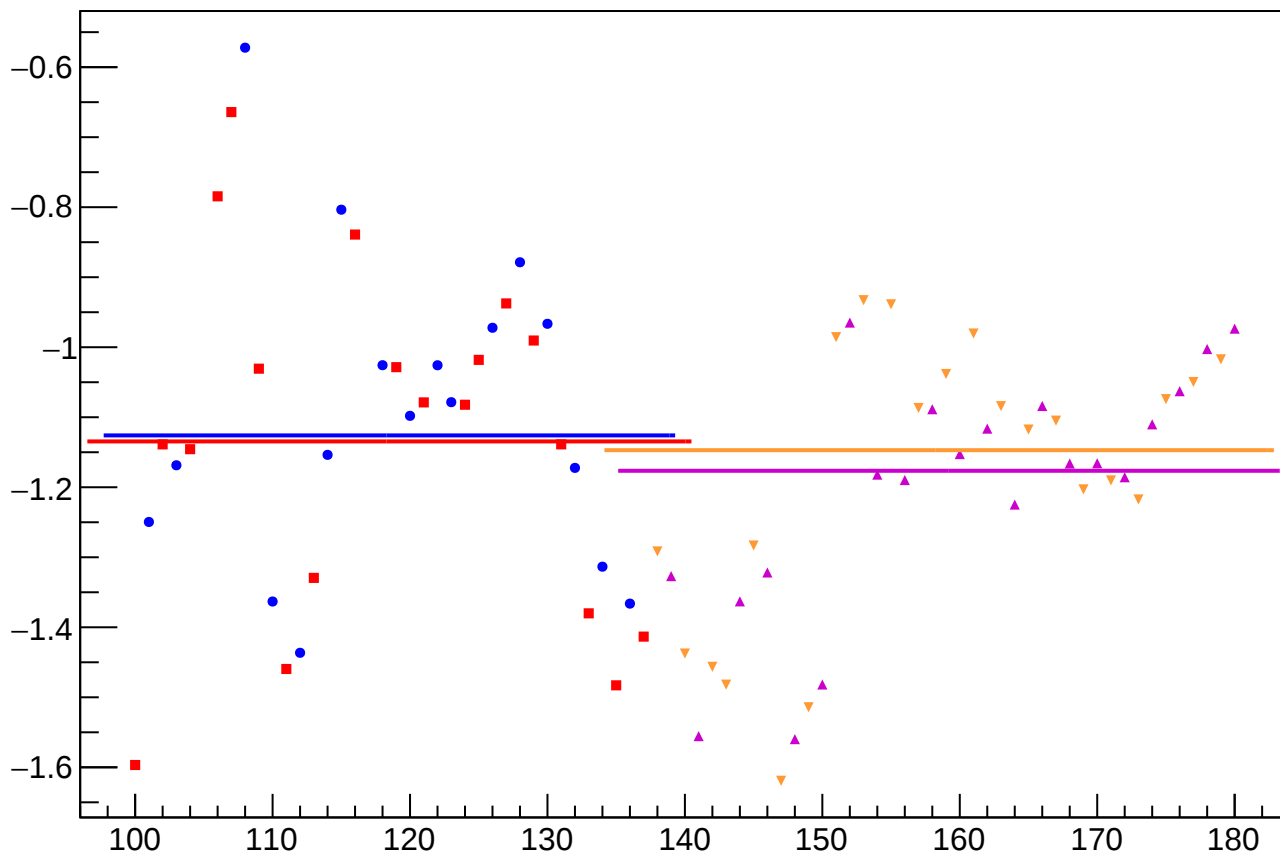
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :503428.0/37

Out: 0.011+/-0.000 χ^2/NDF :417357.6/40

All: 0.011+/-0.000 χ^2/NDF : 920818.5/78

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.147+/-0.000 χ^2/NDF : 7676544636.8/21

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.176+/-0.000 χ^2/NDF : 6103293572.8/20

Left: -1.162+/-0.000 χ^2/NDF : 13888233737.0/42

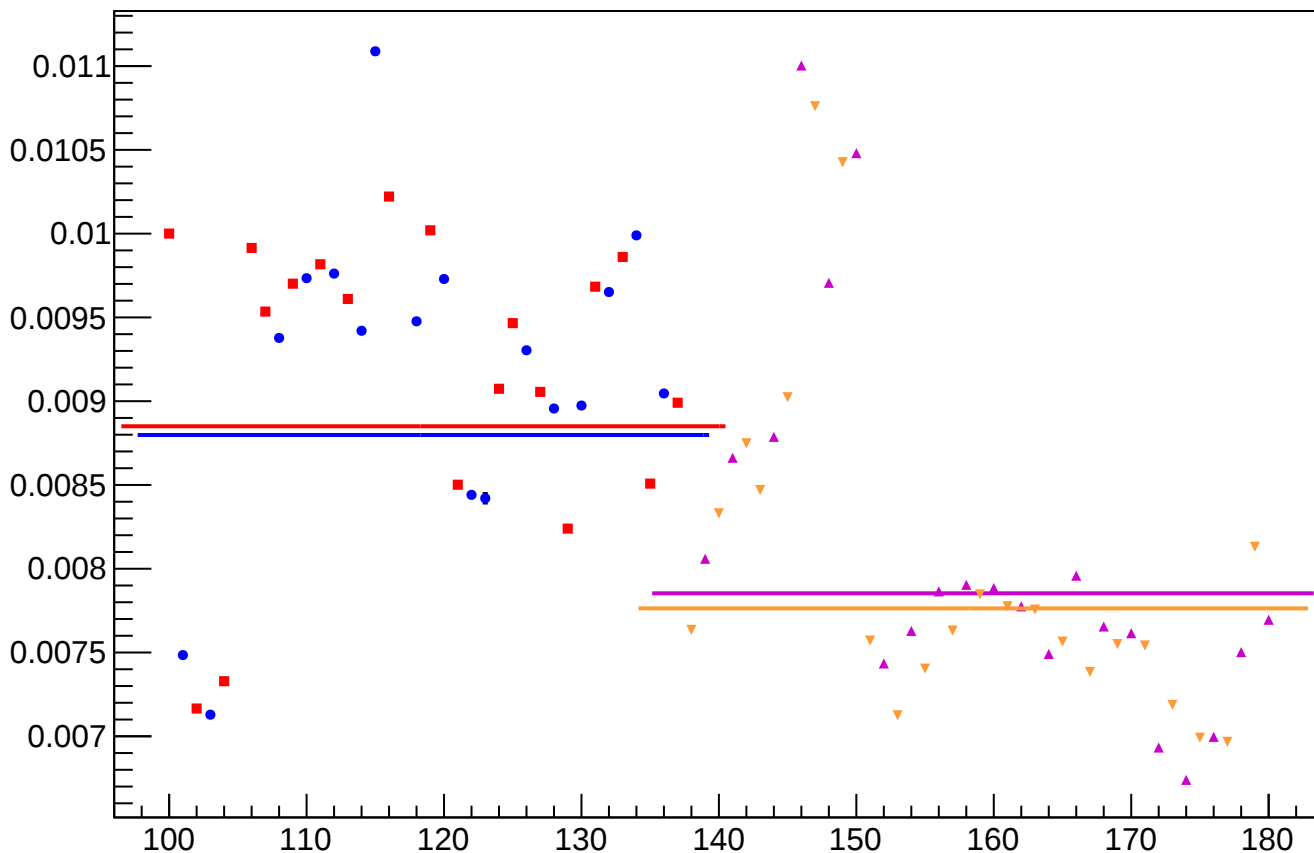
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.164+/-0.000 χ^2/NDF : 9835676323.0/37

Out: -1.144+/-0.000 χ^2/NDF : 11363942883.8/40

All: -1.154+/-0.000 χ^2/NDF : 21265562507.7/71

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 312427.3/21

Right Out: 0.009 $\pm$ 0.000 χ^2/NDF : 173958.0/18

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 377679.9/20

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 692134.3/42

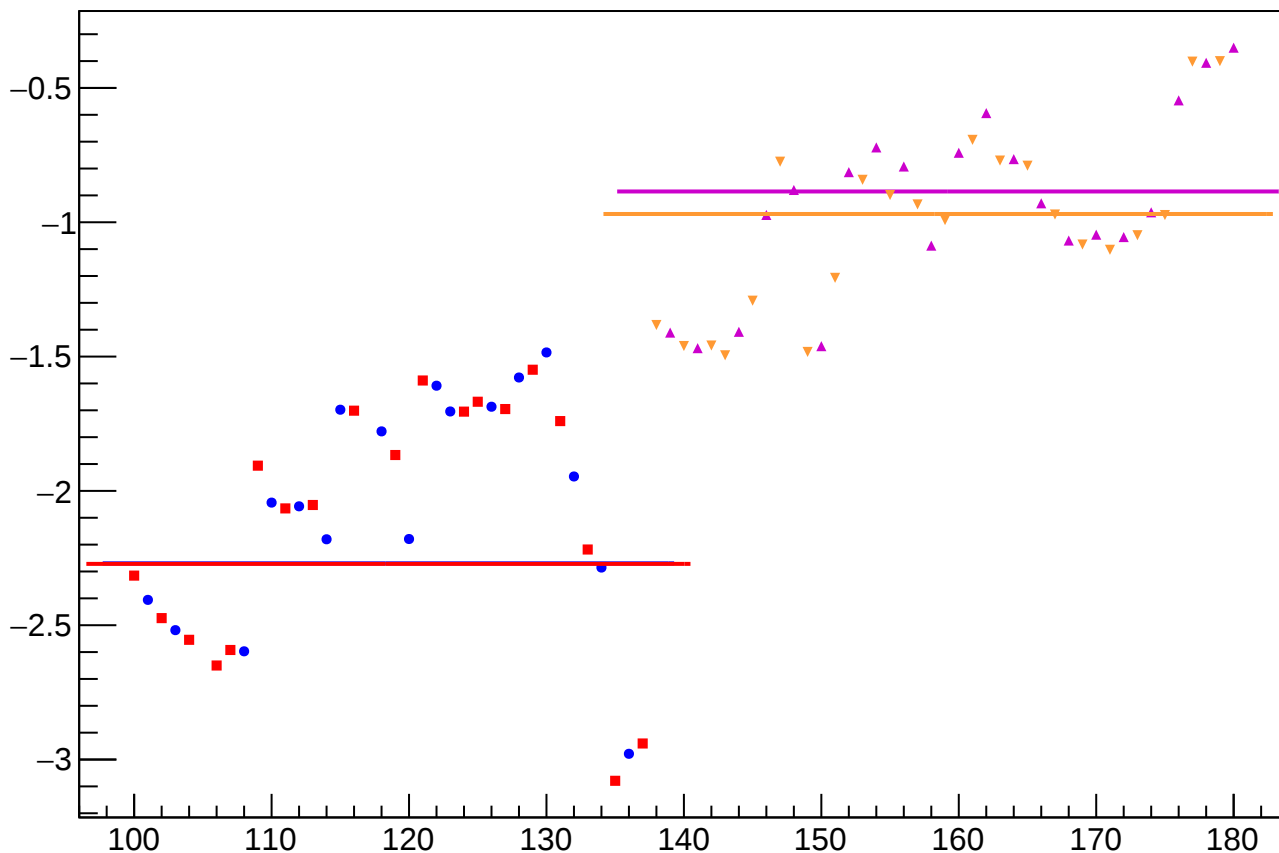
Right: 0.009 $\pm$ 0.000 χ^2/NDF : 325772.0/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 639504.3/37

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 636305.1/40

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1276858.9/78

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -0.969+/-0.000 χ^2/NDF : 35469016574.8/21

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.885+/-0.000 χ^2/NDF : 39264873058.5/20

Left: -0.927+/-0.000 χ^2/NDF : 76144586329.2/42

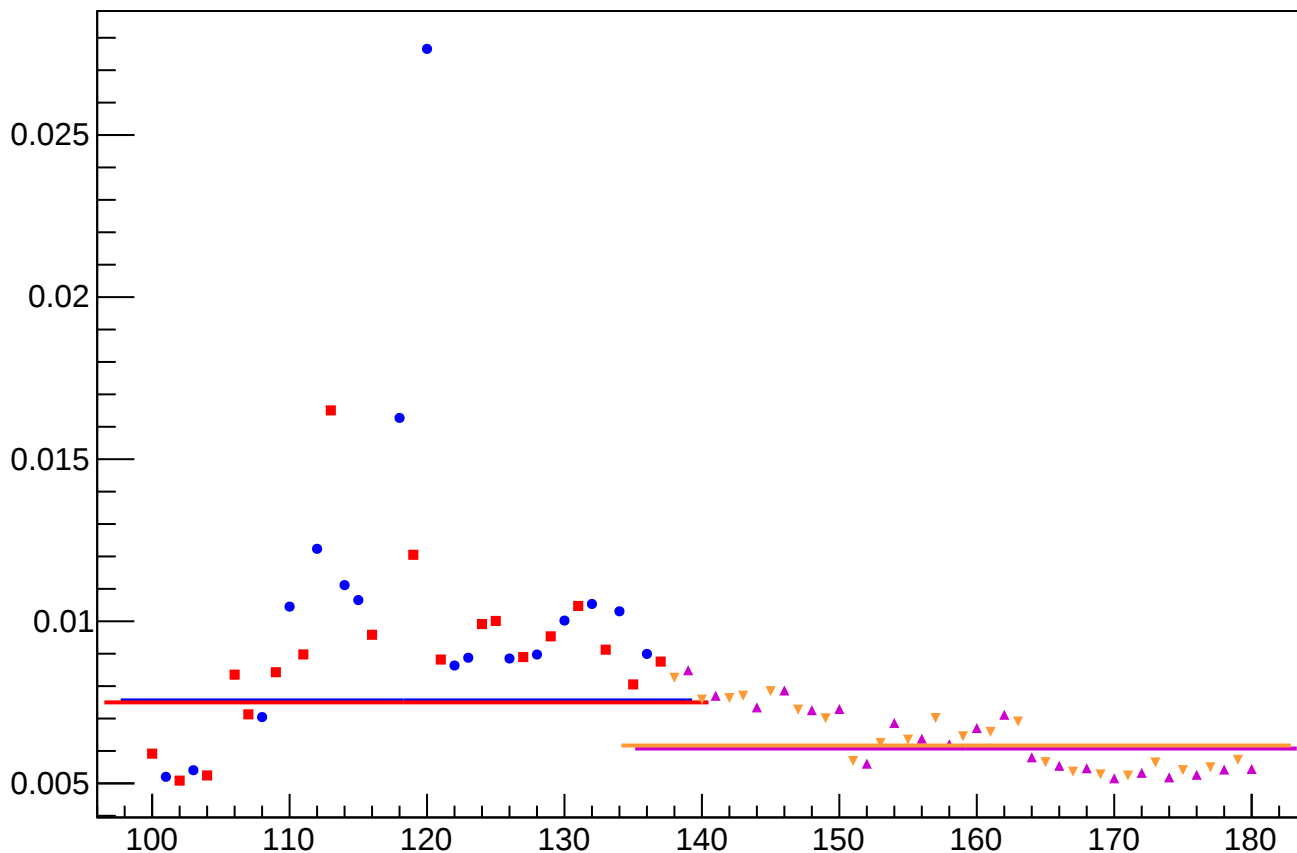
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.132+/-0.000 χ^2/NDF : 195413553575.0/37

Out: -1.230+/-0.000 χ^2/NDF : 189497806333.5/40

All: -1.181+/-0.000 χ^2/NDF : 387319928366.7

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 596667.0/21

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 690654.5/20

Left: 0.006+/-0.000 χ^2/NDF : 1290811.8/42

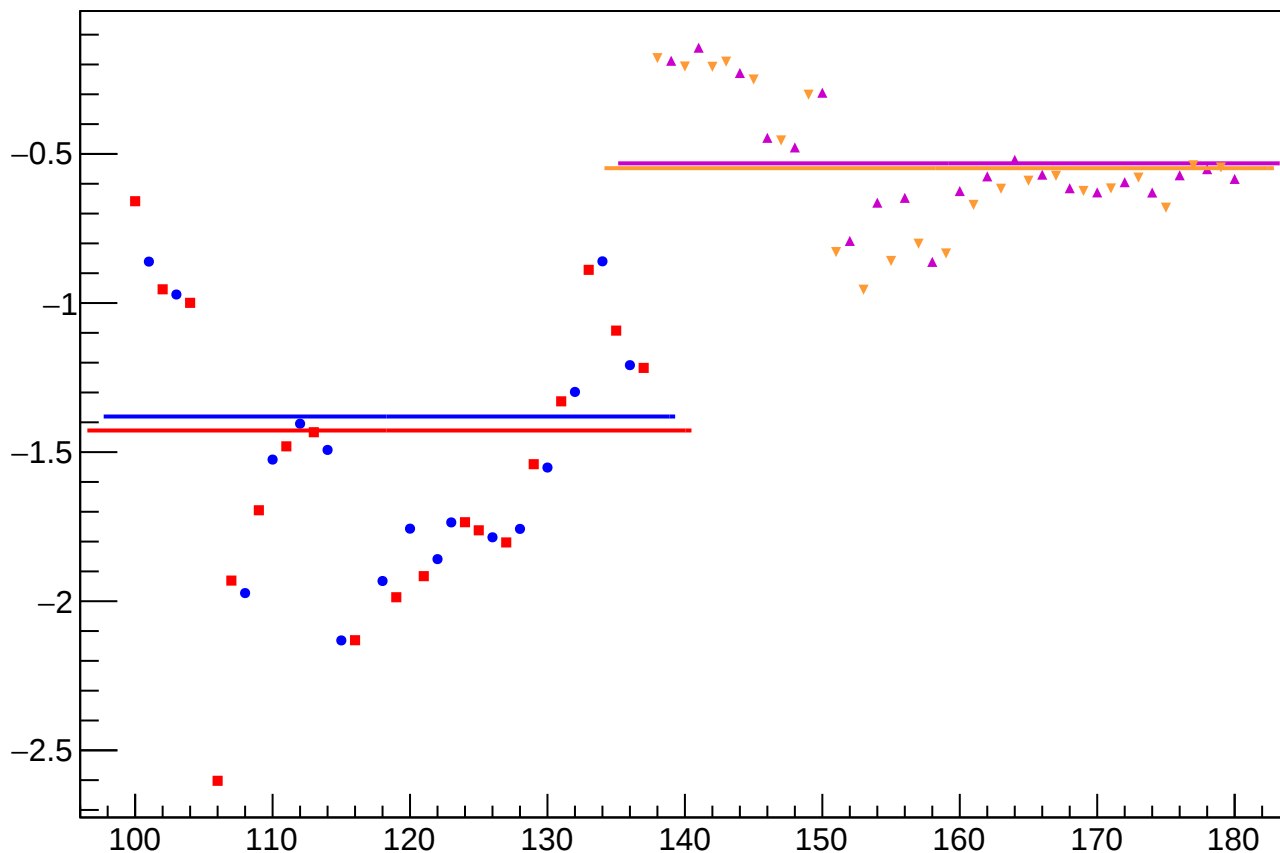
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.006+/-0.000 χ^2/NDF : 2230325.6/37

Out: 0.006+/-0.000 χ^2/NDF : 1812497.1/40

All: 0.006+/-0.000 χ^2/NDF : 4047388.3/78

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.548+/-0.000 χ^2/NDF : 46180631367.9/21

Right Out: -1.427+/-0.000 χ^2/NDF : 29616178528.0/18

Left In: -0.532+/-0.000 χ^2/NDF : 30634602778.5/20

Left: -0.540+/-0.000 χ^2/NDF : 76932243641.2/42

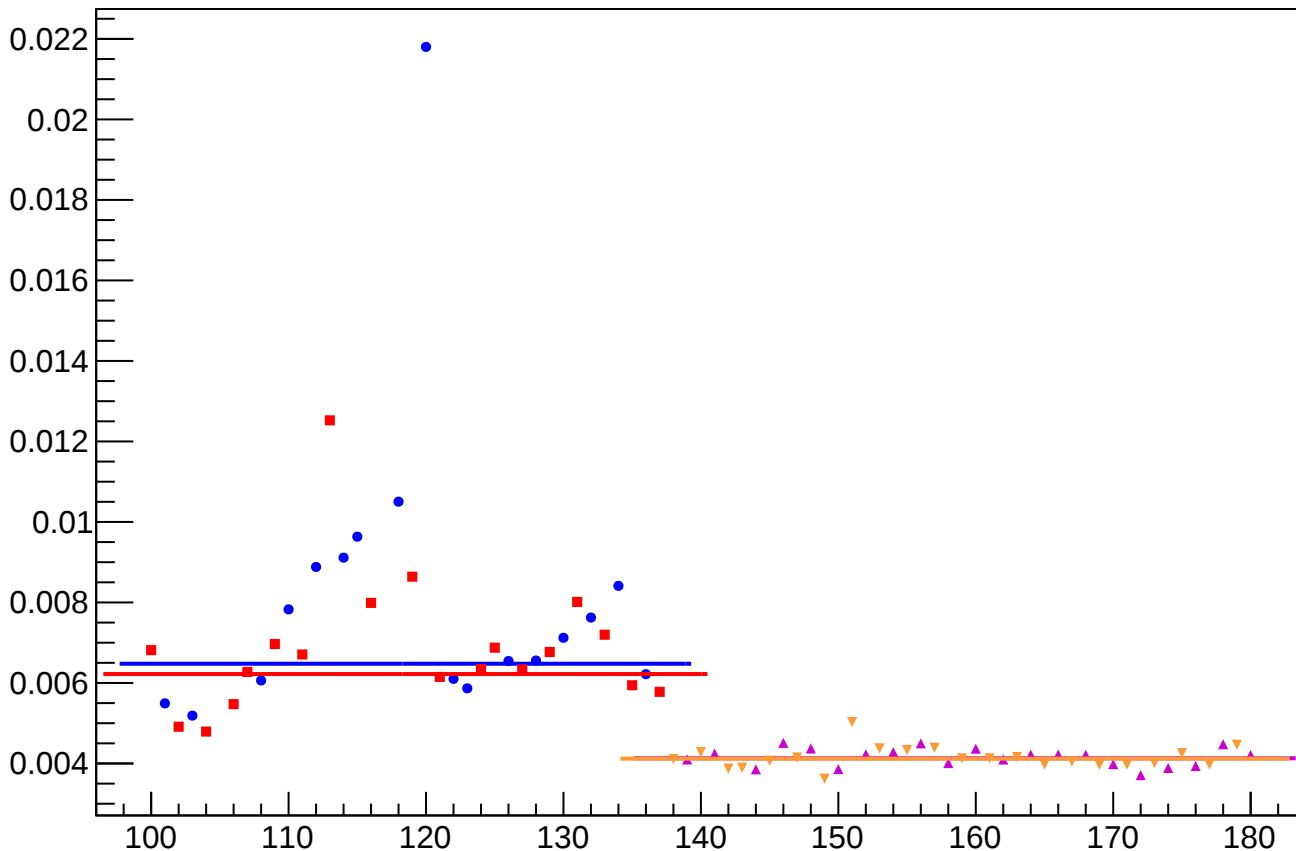
Right: -1.406+/-0.000 χ^2/NDF : 49770978716.8/35

In: -0.640+/-0.000 χ^2/NDF : 132215057418.0/37

Out: -0.676+/-0.000 χ^2/NDF : 176274170909.7/40

All: -0.658+/-0.000 χ^2/NDF : 309121723851.7

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 :107894.9/21

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF :87950.5/20

Left: 0.004+/-0.000 χ^2/NDF : 195921.9/42

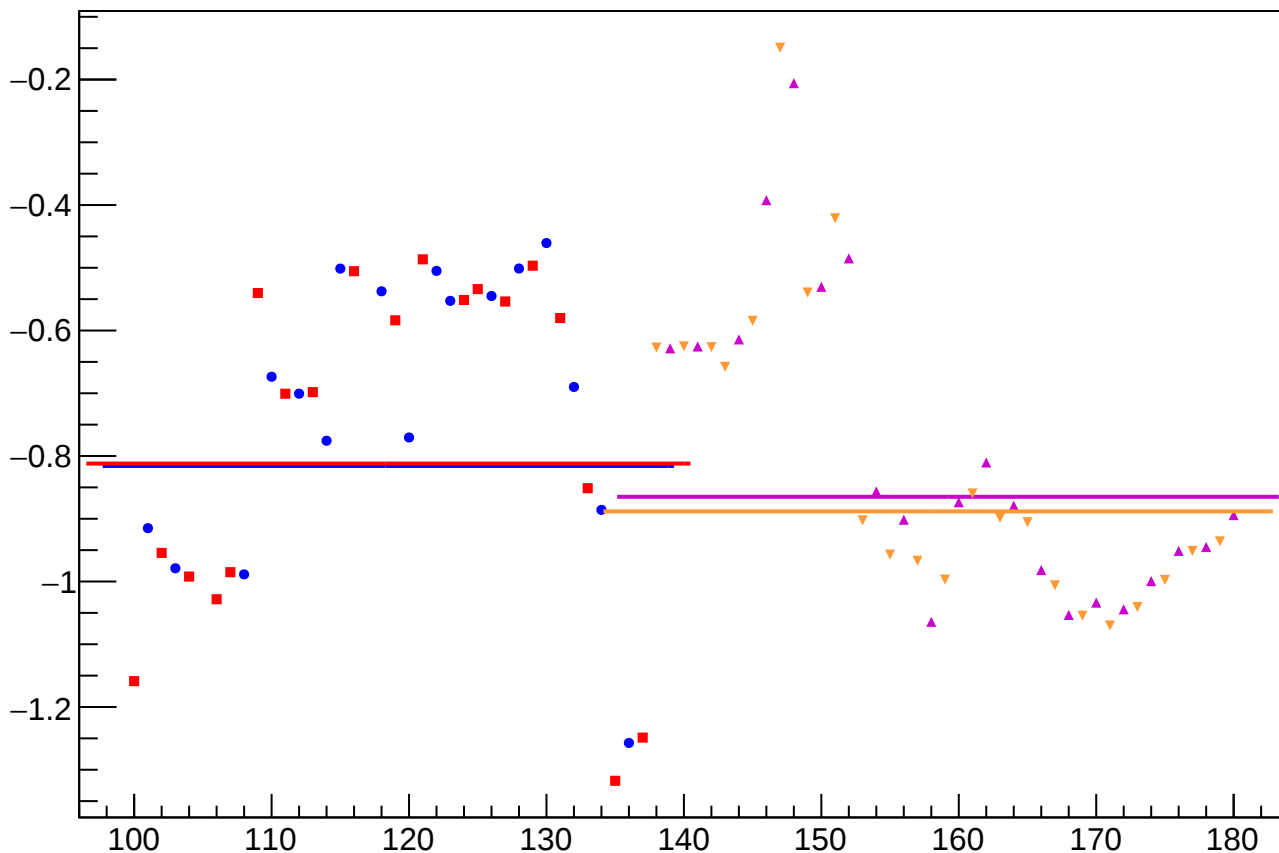
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF :1908676.2/37

Out: 0.004+/-0.000 χ^2/NDF :1678627.8/40

All: 0.004+/-0.000 χ^2/NDF : 3587332.7/78

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.888 ± 0.000 $\chi^2/\text{NDF}: 40216701297.9/21$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.865 ± 0.000 $\chi^2/\text{NDF}: 43700457118.6/20$

Left: -0.876 ± 0.000 $\chi^2/\text{NDF}: 84195296158.4/42$

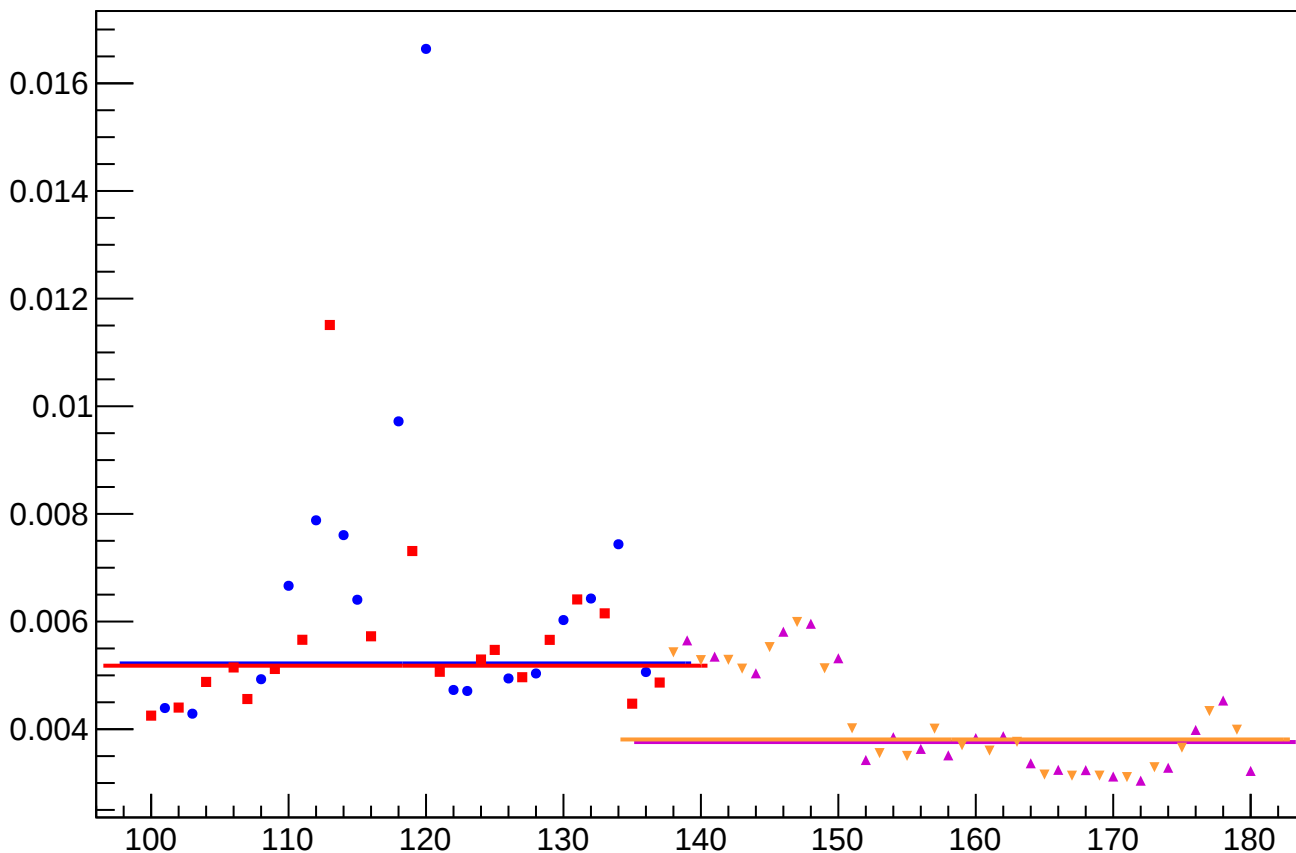
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.857 ± 0.000 $\chi^2/\text{NDF}: 58272558727.3/37$

Out: -0.875 ± 0.000 $\chi^2/\text{NDF}: 58088537683.5/40$

All: -0.866 ± 0.000 $\chi^2/\text{NDF}: 116549650527.9$

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 :1151882.1/21

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1279257.5/20

Left: 0.004+/-0.000 χ^2/NDF : 2433504.9/42

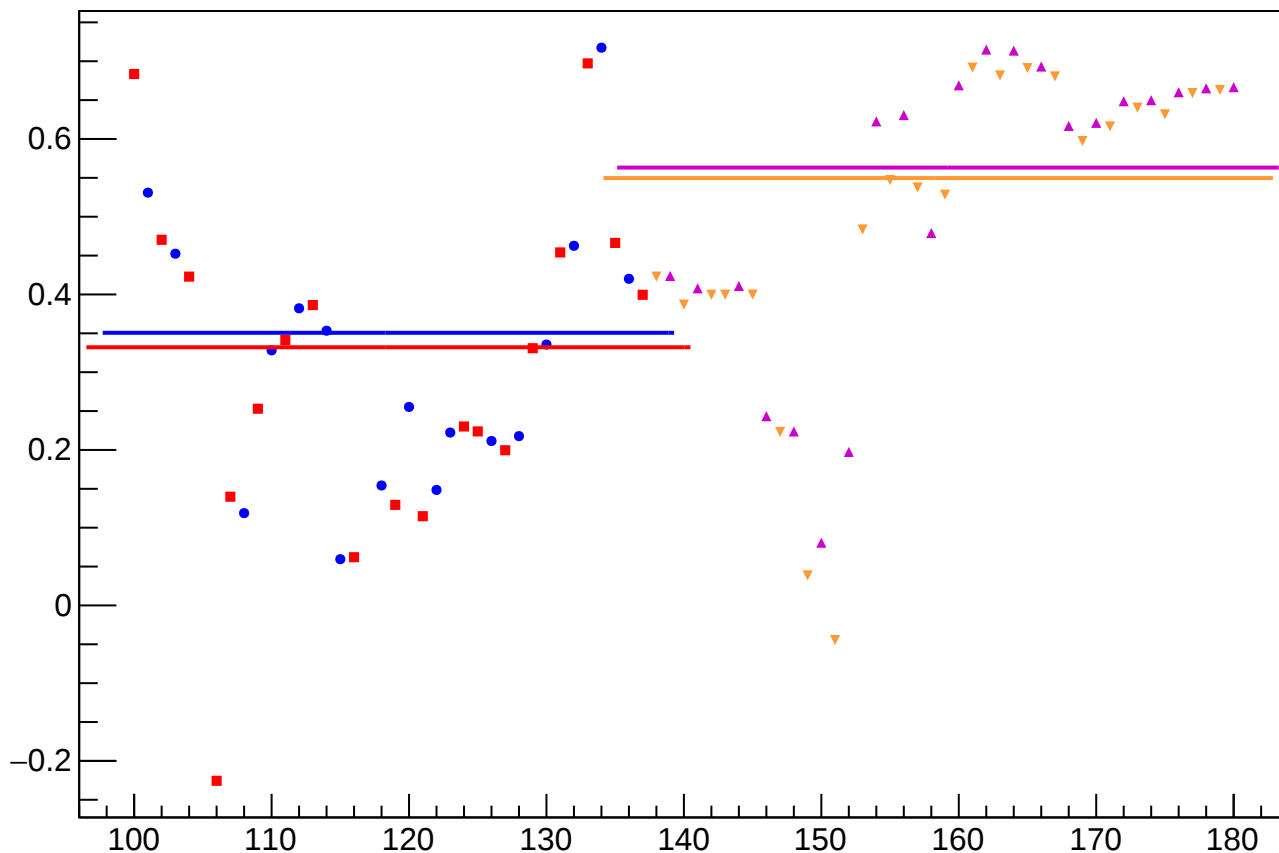
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2647261.9/37

Out: 0.004+/-0.000 χ^2/NDF :2199103.0/40

All: 0.004+/-0.000 χ^2/NDF : 4850959.5/78

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.556+/-0.000

χ^2/NDF : 83865303940.0/42

Left Out: 0.550+/-0.000

χ^2/NDF : 42766977328.4/21

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.523+/-0.000

χ^2/NDF : 61048732666.8/37

Out: 0.504+/-0.000

χ^2/NDF : 69261837294.8/40

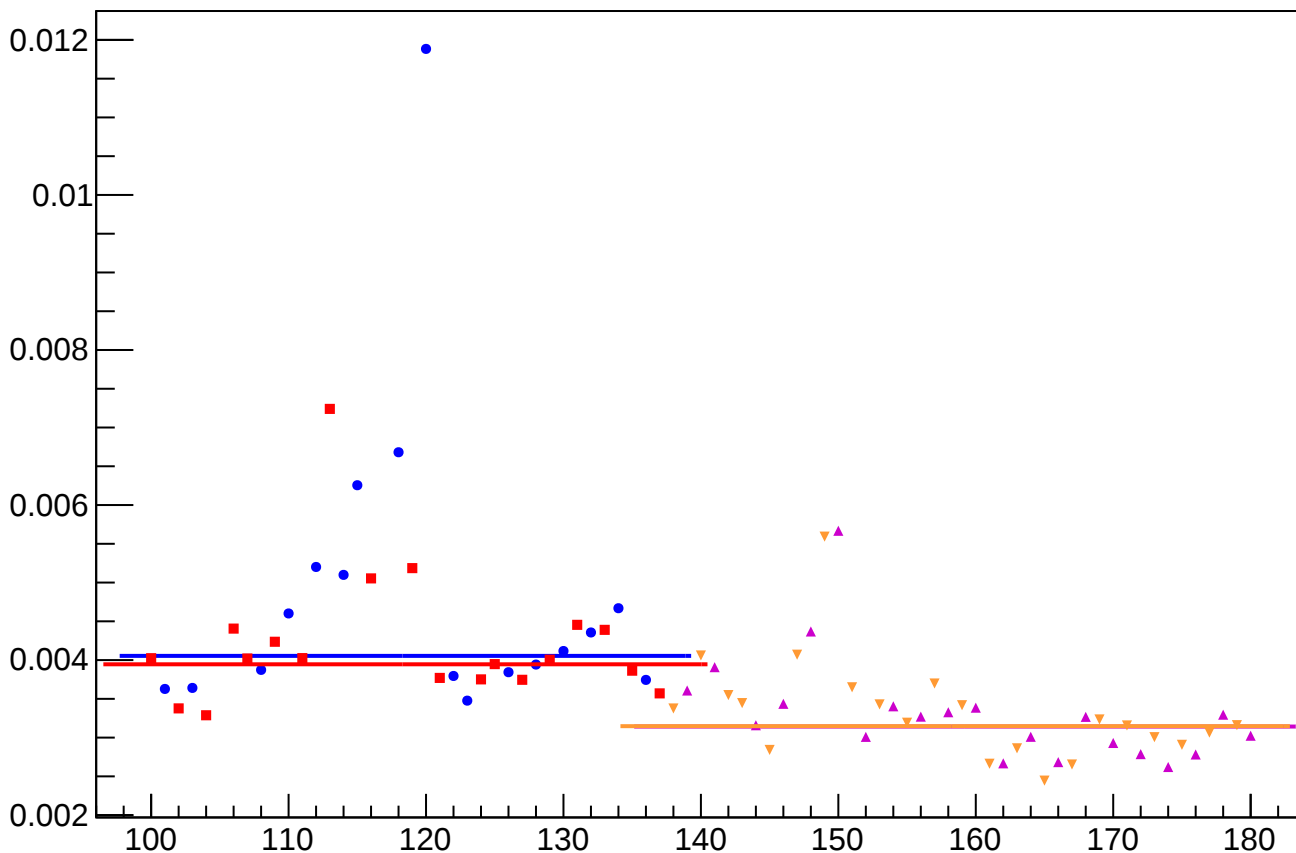
Left In: 0.563+/-0.000

χ^2/NDF : 40964672575.9/20

All: 0.513+/-0.000

χ^2/NDF : 130638521816.9

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 : 726474.5/21

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 714476.1/20

Left: 0.003+/-0.000 χ^2/NDF : 1440984.9/42

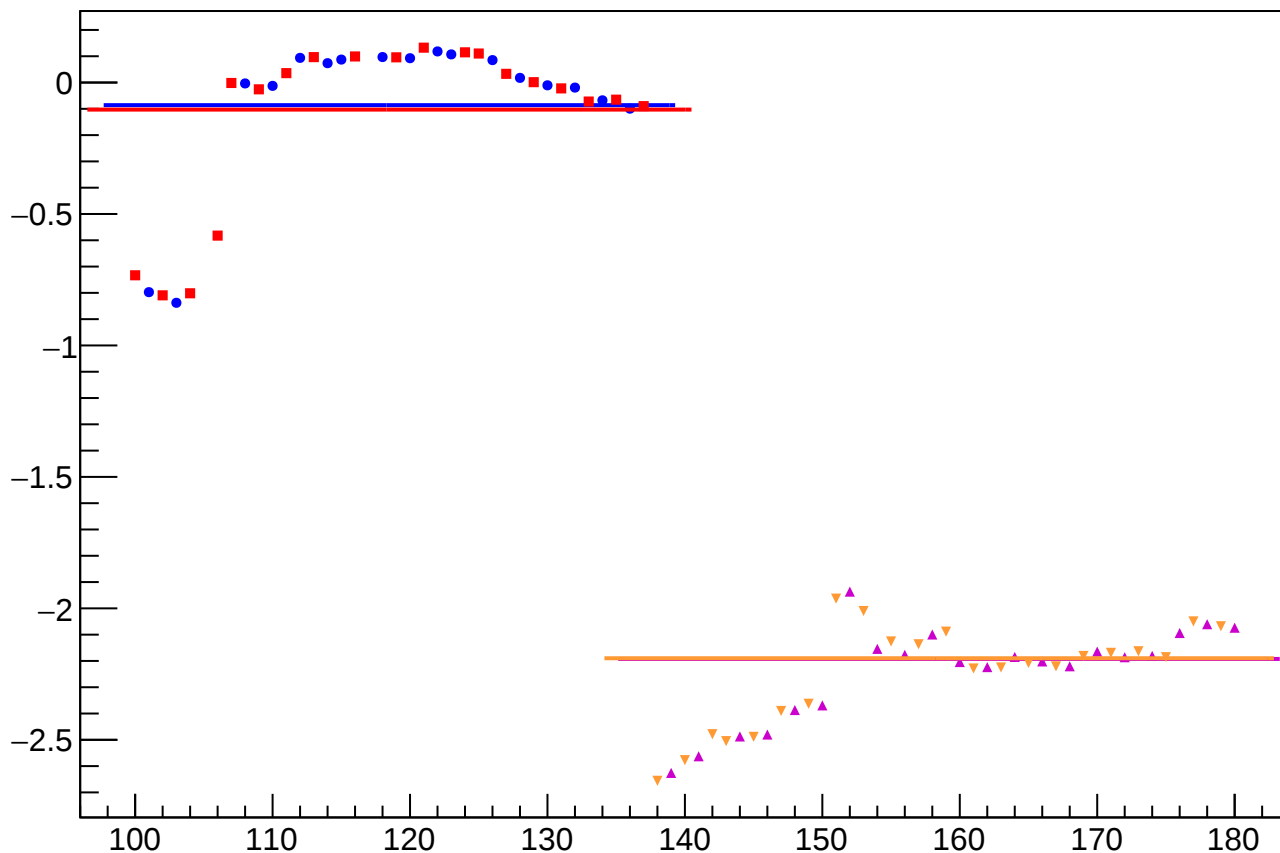
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1636193.2/37

Out: 0.003+/-0.000 χ^2/NDF : 1382761.1/40

All: 0.003+/-0.000 χ^2/NDF : 3018954.9/78

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000

χ^2/NDF : 4989387592.7/16

Left: -2.191+/-0.000

χ^2/NDF : 7081942024.7/42

Left Out: -2.190+/-0.000

χ^2/NDF : 3839982650.7/21

Right: -0.095+/-0.000

χ^2/NDF : 10550892801.3/35

Right Out: -0.103+/-0.000

χ^2/NDF : 5553039516.7/18

In: -1.607+/-0.000

χ^2/NDF : 189137422601.5/37

Out: -1.578+/-0.000

χ^2/NDF : 202381806894.2/40

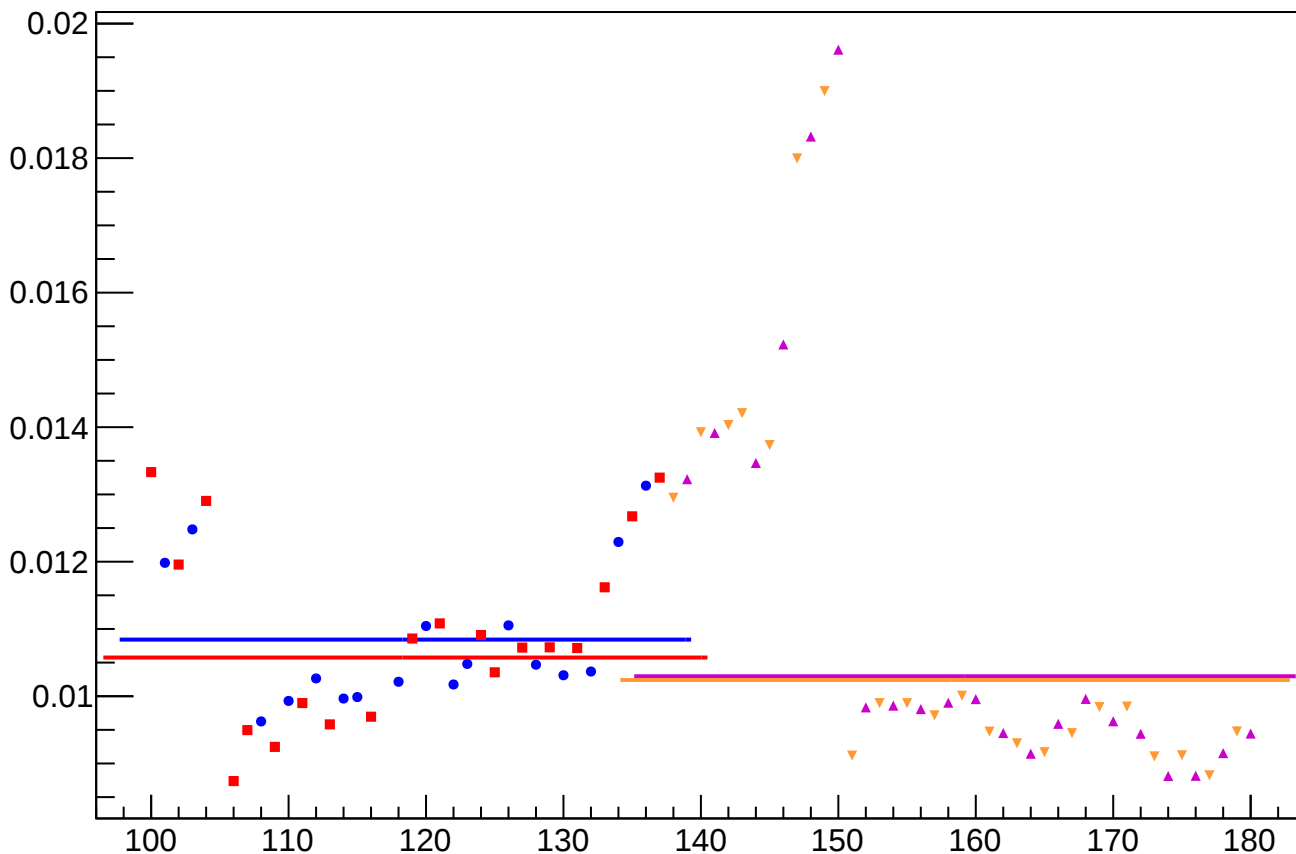
Left In: -2.192+/-0.000

χ^2/NDF : 3241456513.6/20

All: -1.592+/-0.000

χ^2/NDF : 391608800284.1

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.010+/-0.000 χ^2/NDF :1254578.7/21

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.010+/-0.000 χ^2/NDF :1335506.8/20

Left: 0.010+/-0.000 χ^2/NDF : 2590539.8/42

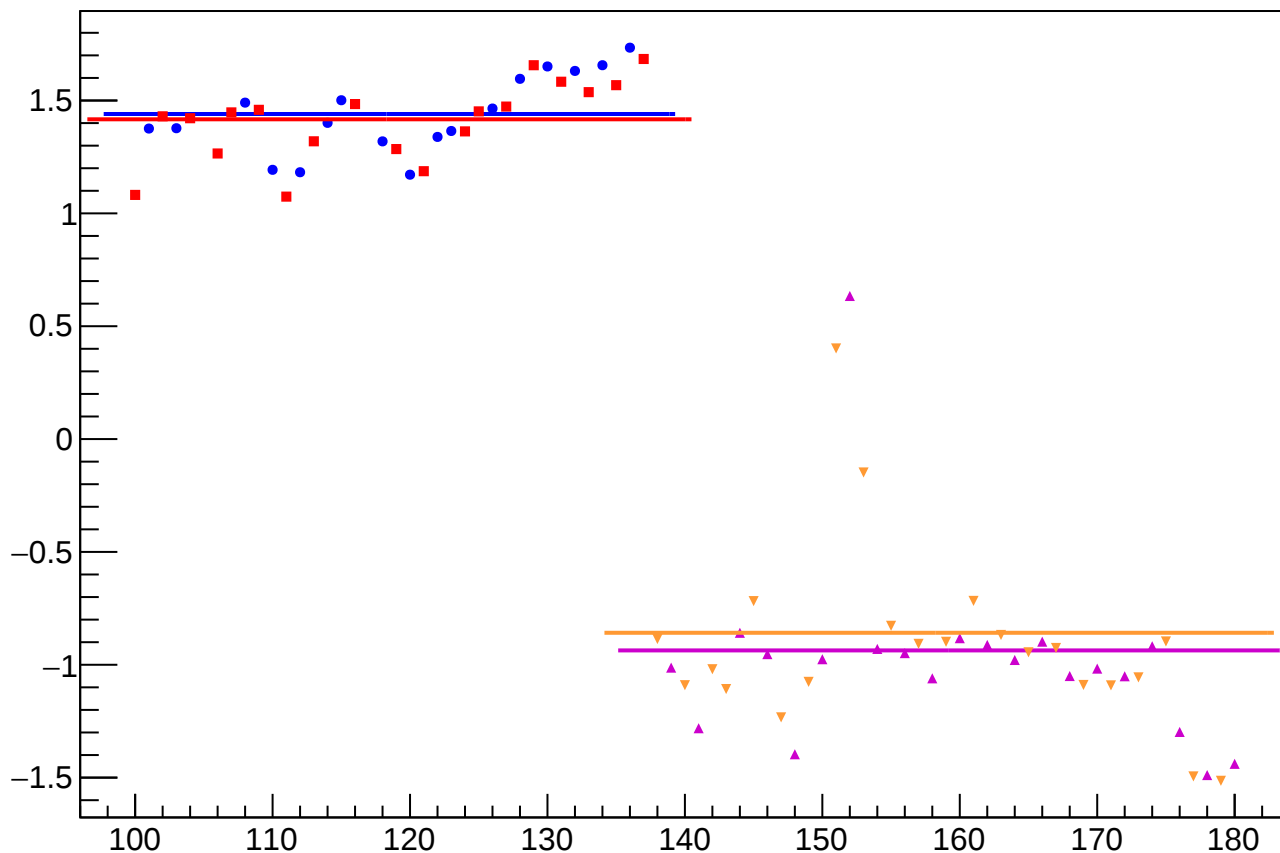
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.010+/-0.000 χ^2/NDF :1483996.1/37

Out: 0.010+/-0.000 χ^2/NDF :1443413.8/40

All: 0.010+/-0.000 χ^2/NDF : 2929878.8/78

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.858 $\pm$ 0.000 χ^2 /NDF: 45510510356.6/21

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.936 $\pm$ 0.000 χ^2 /NDF: 50507384199.7/20

Left: -0.897 $\pm$ 0.000 χ^2 /NDF: 96715312230.8/42

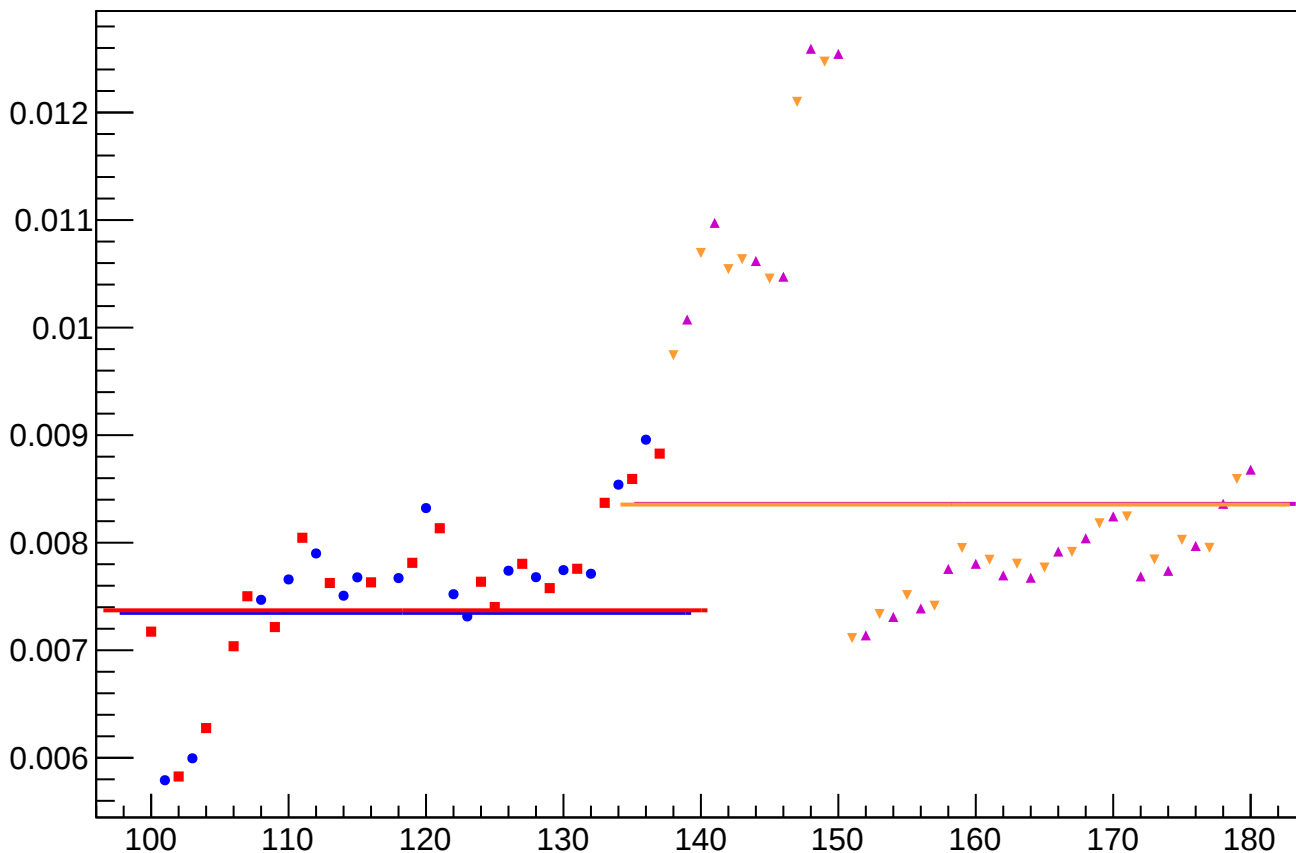
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: -0.104 $\pm$ 0.000 χ^2 /NDF: 501823676600.8/37

Out: -0.042 $\pm$ 0.000 χ^2 /NDF: 476665505785.3/40

All: -0.072 $\pm$ 0.000 χ^2 /NDF: 979171517420.4

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 757300.5/21

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 832450.0/20

Left: 0.008+/-0.000 χ^2/NDF : 1589759.9/42

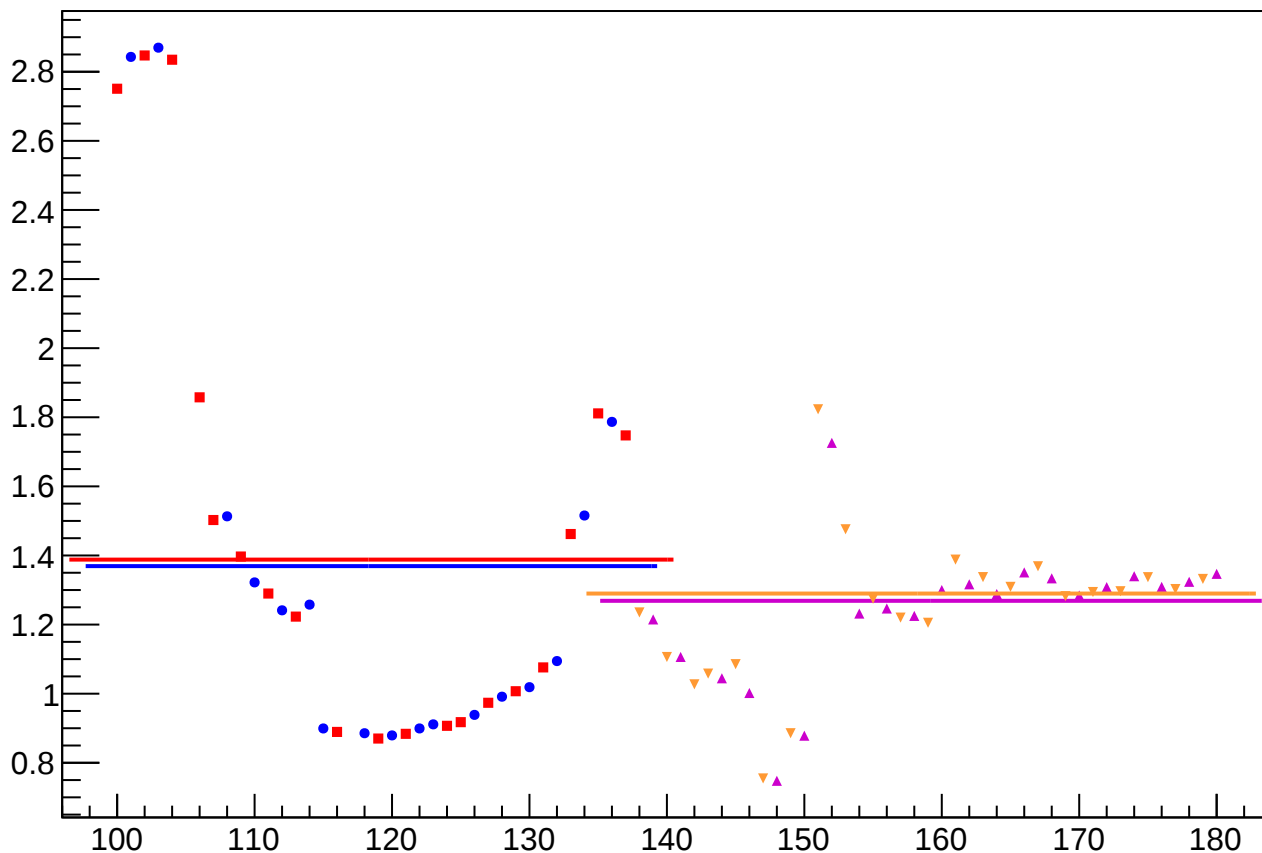
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1223408.3/37

Out: 0.008+/-0.000 χ^2/NDF : 1090117.3/40

All: 0.008+/-0.000 χ^2/NDF : 2313532.6/78

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.290+/-0.000 χ^2/NDF : 9177233660.2/21

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.269+/-0.000 χ^2/NDF : 7520704202.9/20

Left: 1.280+/-0.000 χ^2/NDF : 16750164673.6/42

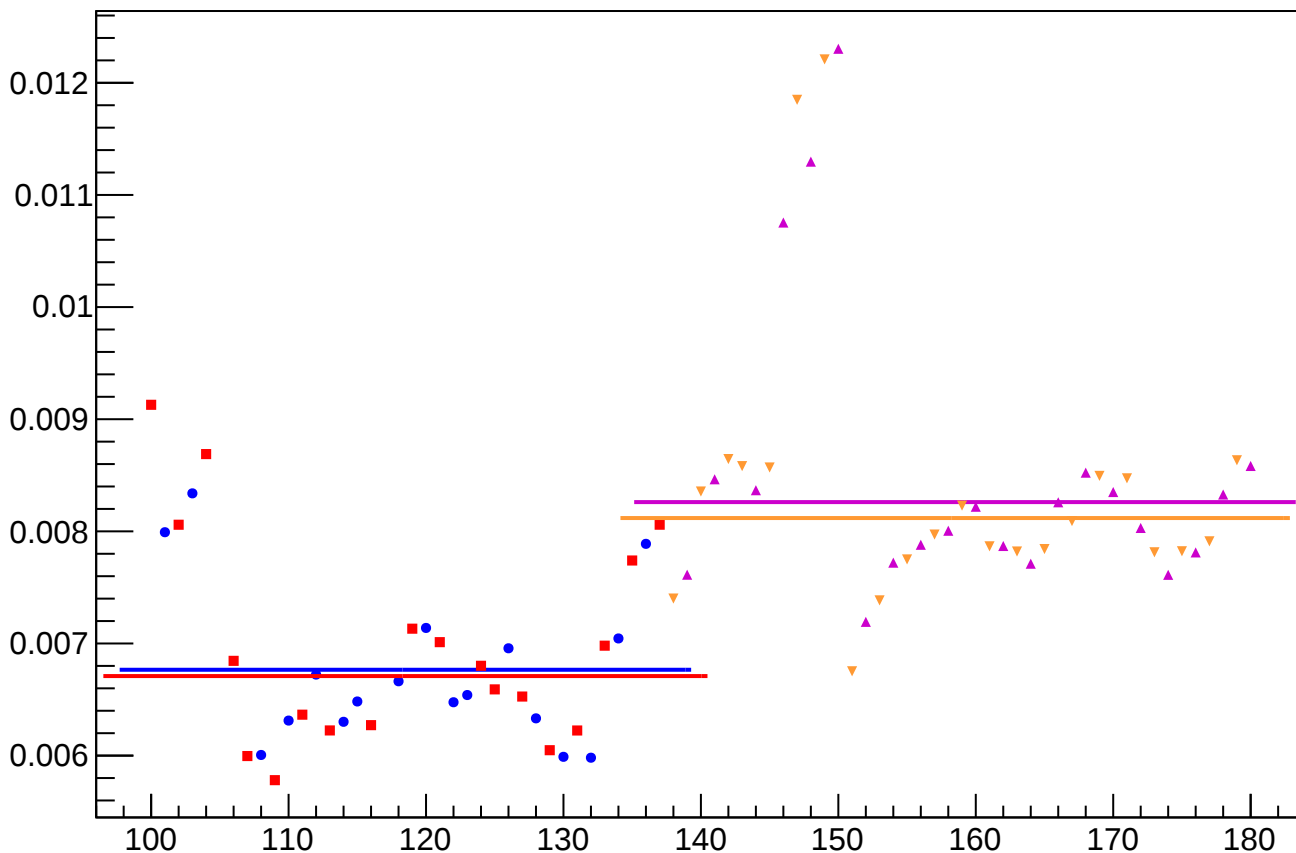
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.307+/-0.000 χ^2/NDF : 62622171052.1/37

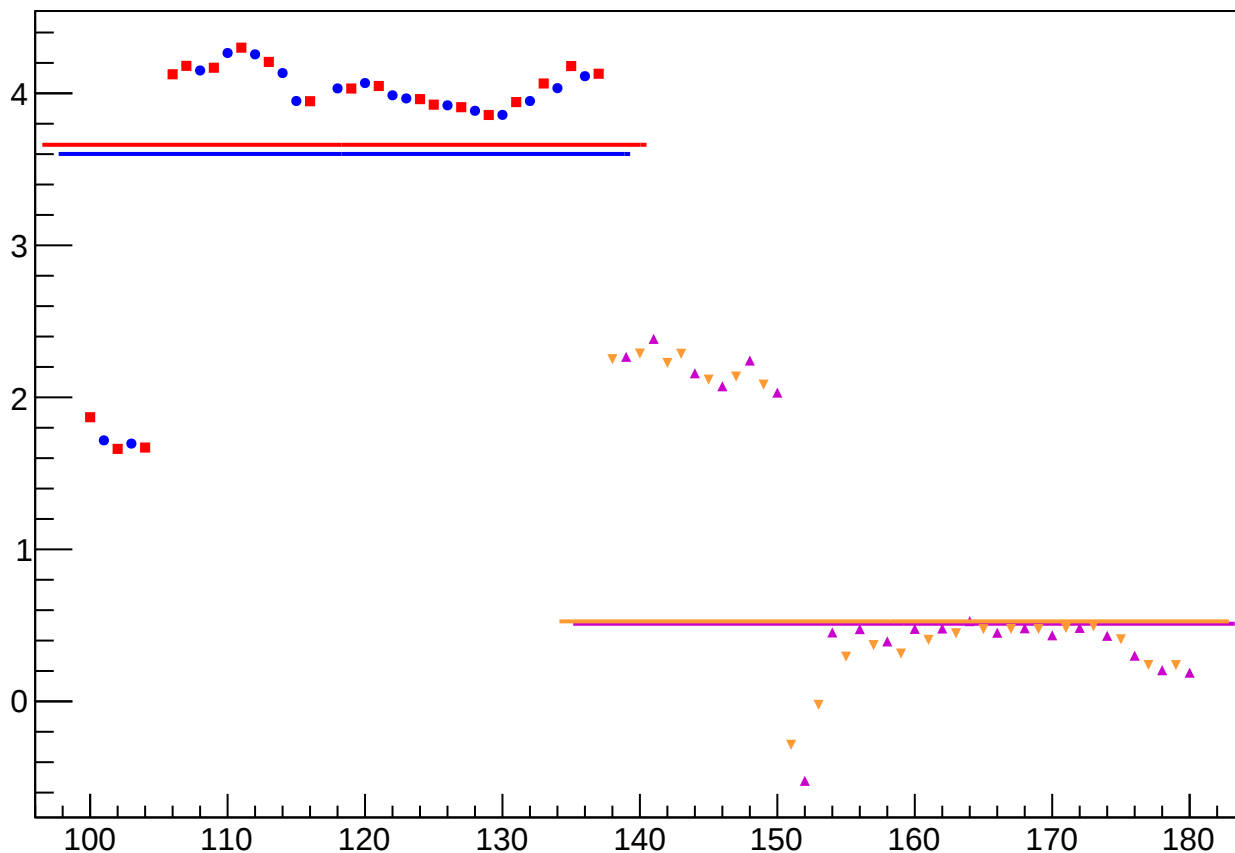
Out: 1.328+/-0.000 χ^2/NDF : 59990593877.7/40

All: 1.318+/-0.000 χ^2/NDF : 122696540657.2

yield_bpm1i04X_rms vs Slug, Sign Corrected



yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.526+/-0.000 χ^2/NDF : 265347699581.7/21

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.511+/-0.000 χ^2/NDF : 265959616630.2/20

Left: 0.518+/-0.000 χ^2/NDF : 531393110583.7/42

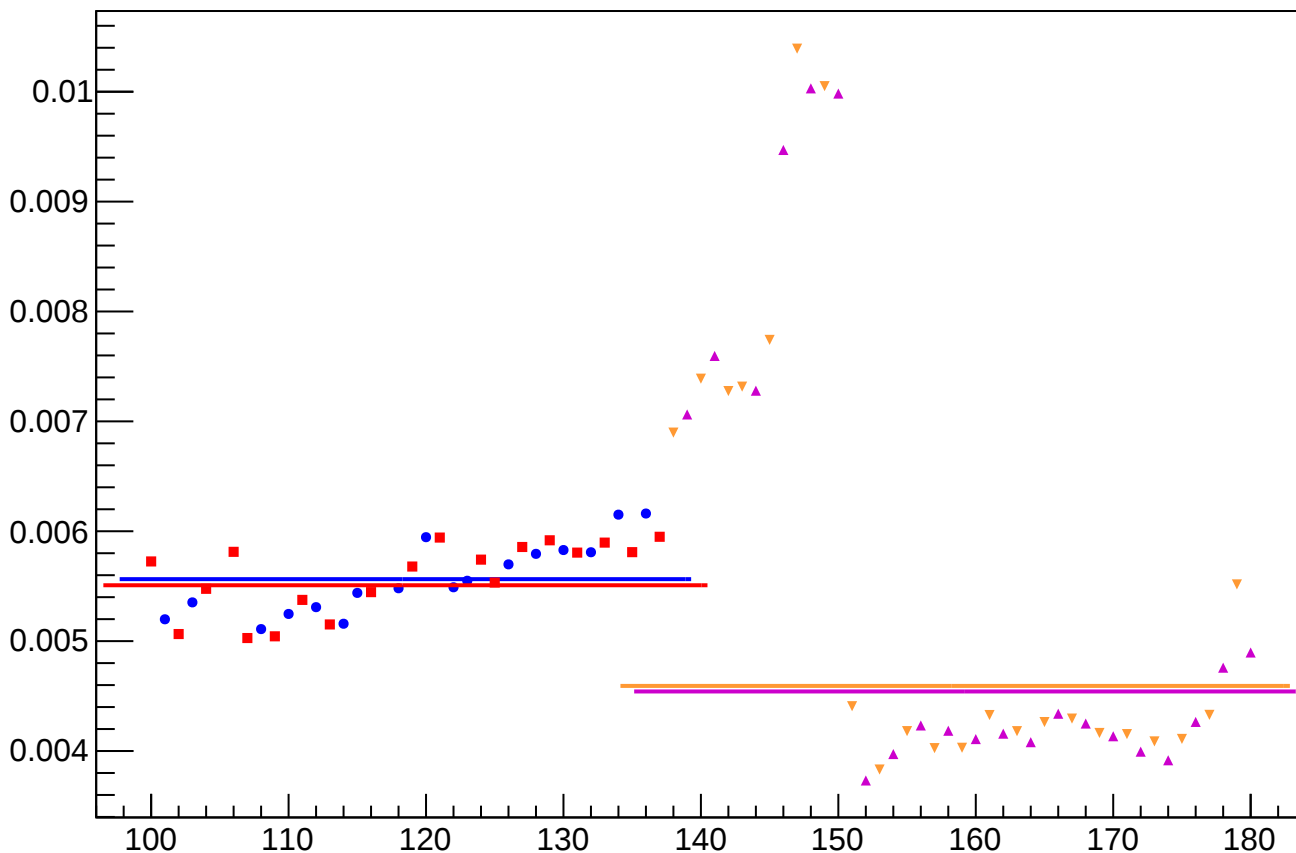
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.230+/-0.000 χ^2/NDF : 2033964718950.1/37

Out: 1.295+/-0.000 χ^2/NDF : 2159010243255.9/40

All: 1.262+/-0.000 χ^2/NDF : 4194906766626.

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 :2065116.1/21

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2235218.8/20

Left: 0.005+/-0.000 χ^2/NDF : 4302147.7/42

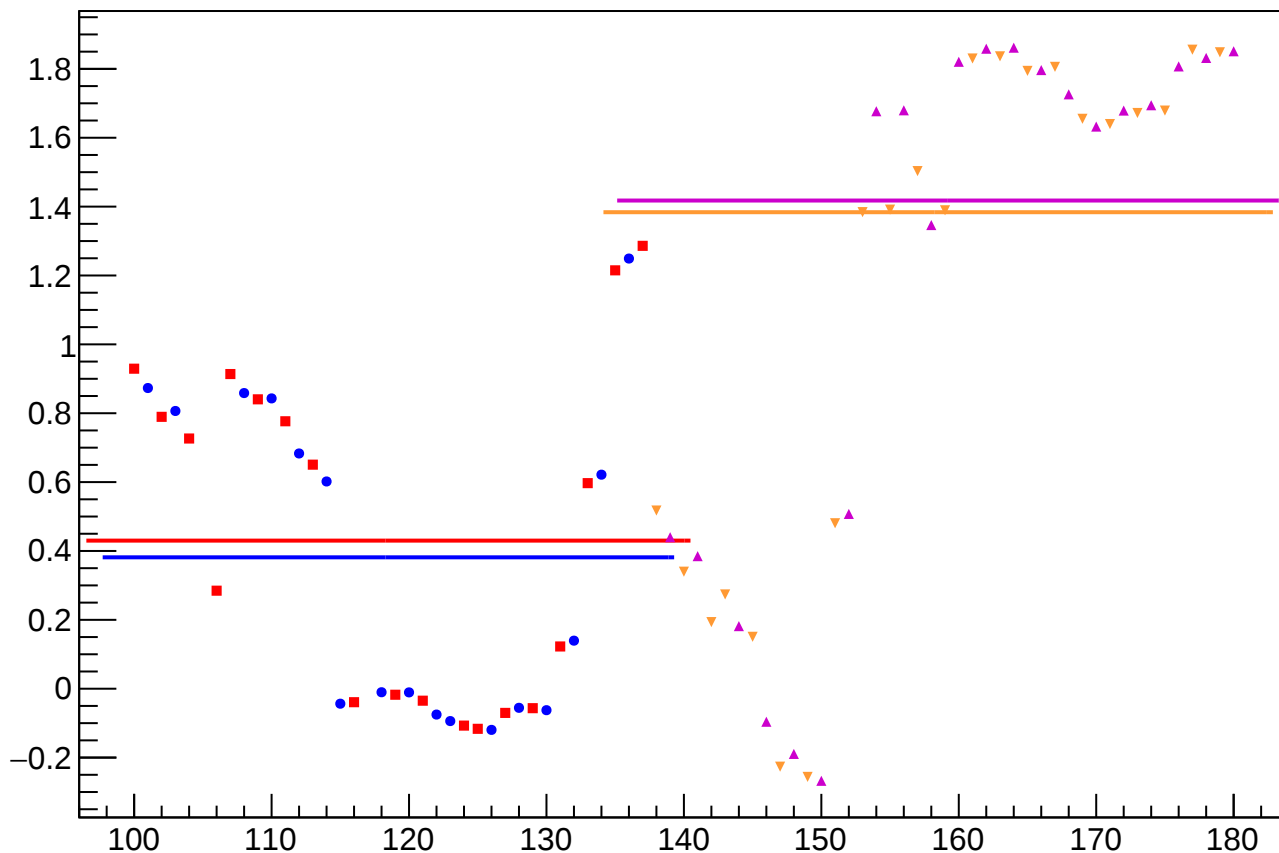
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2628971.6/37

Out: 0.005+/-0.000 χ^2/NDF :2408190.5/40

All: 0.005+/-0.000 χ^2/NDF : 5038443.5/78

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 ± 0.000 $\chi^2/\text{NDF}: 7124759123.1/16$

Left Out: 1.384 ± 0.000 $\chi^2/\text{NDF}: 46407148844.8/21$

Right Out: 0.430 ± 0.000 $\chi^2/\text{NDF}: 6676199135.9/18$

Left In: 1.418 ± 0.000 $\chi^2/\text{NDF}: 52115678378.7/20$

Left: 1.401 ± 0.000 $\chi^2/\text{NDF}: 98596753270.0/42$

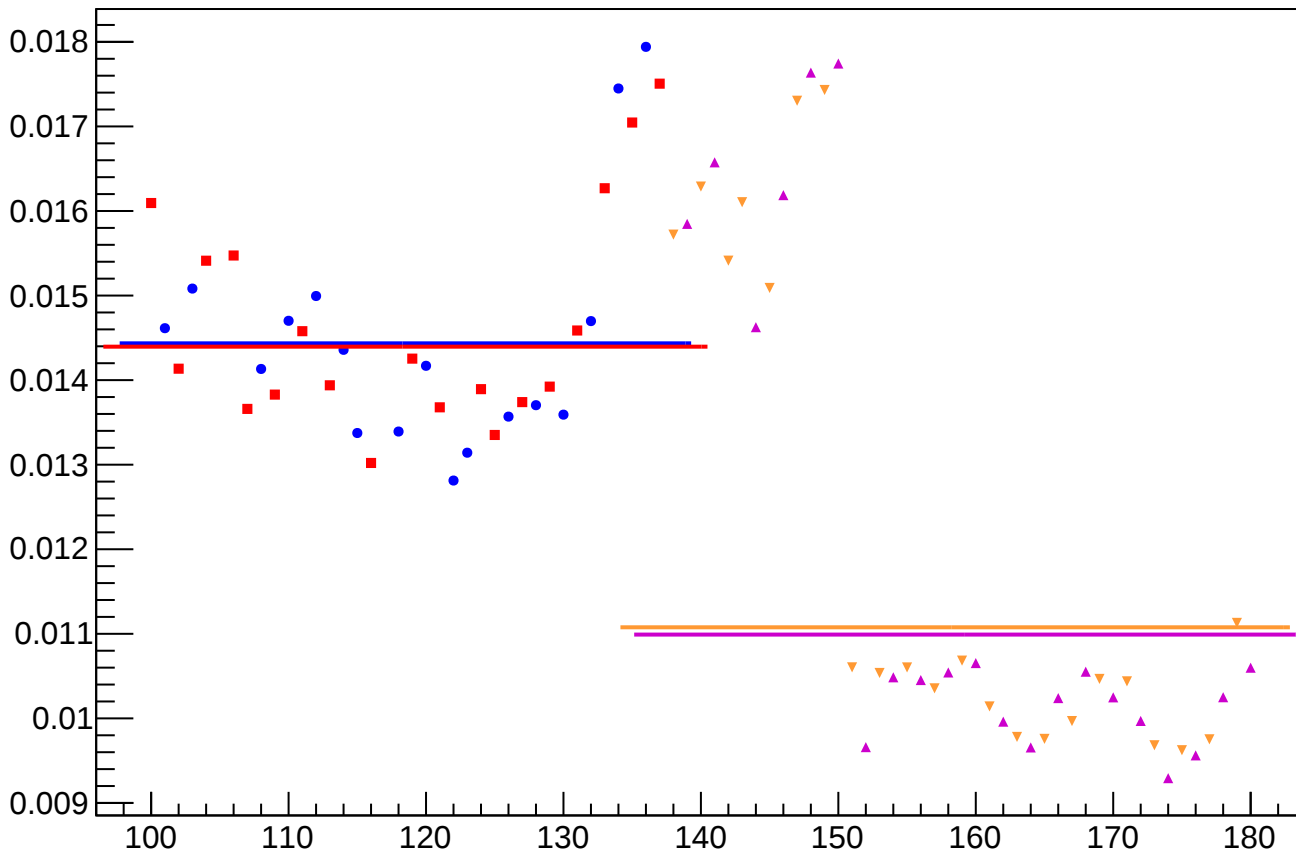
Right: 0.406 ± 0.000 $\chi^2/\text{NDF}: 13839390791.2/35$

In: 1.212 ± 0.000 $\chi^2/\text{NDF}: 86602901131.7/37$

Out: 1.186 ± 0.000 $\chi^2/\text{NDF}: 77255582851.4/40$

All: 1.199 ± 0.000 $\chi^2/\text{NDF}: 163912125566.1$

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 110224.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1206362.0/21

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 74531.6/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264201.6/20

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2471517.8/42

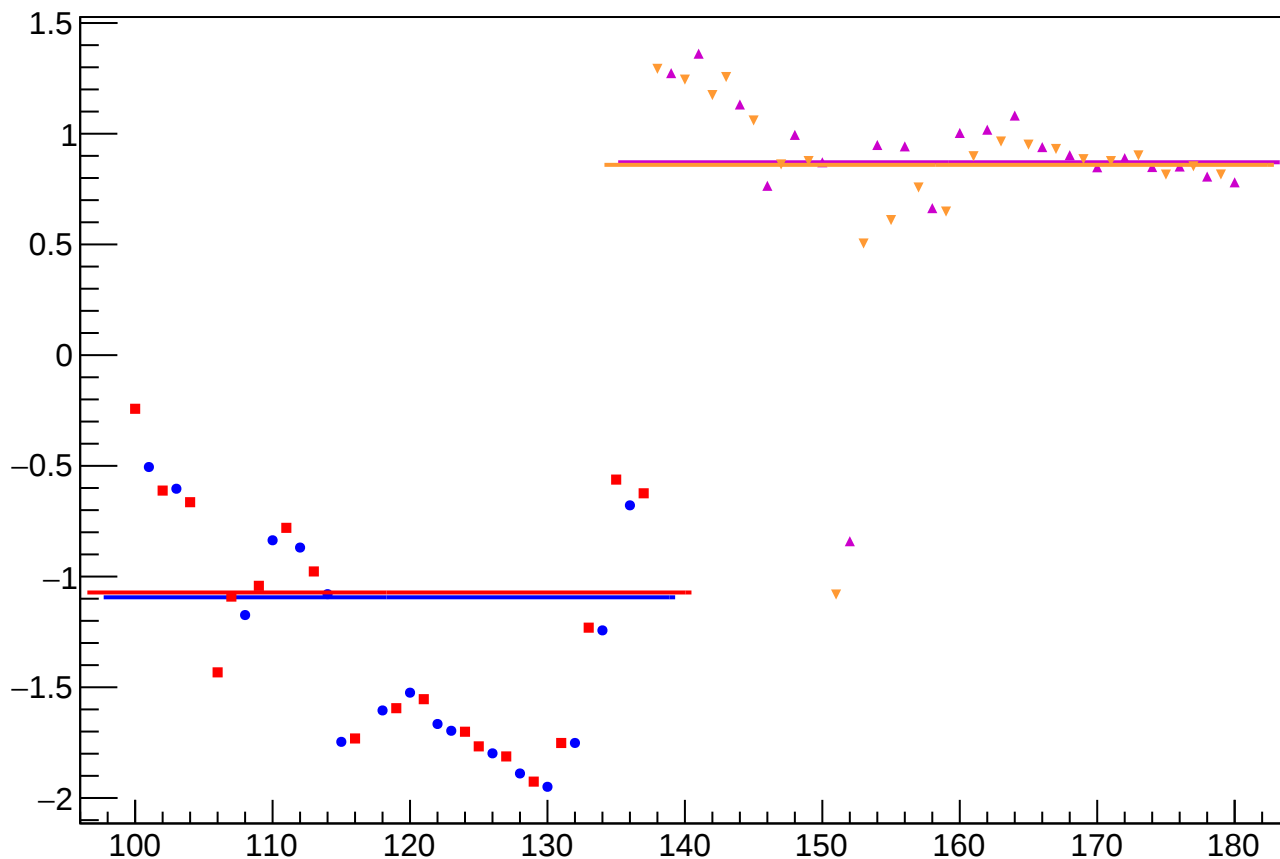
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 184806.5/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1979074.6/37

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1866280.4/40

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3846657.9/78

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 $\chi^2/\text{NDF}: 55960104370.4/16$

Left Out: 0.859 ± 0.000 $\chi^2/\text{NDF}: 125129128925.8/21$

Right Out: -1.072 ± 0.000 $\chi^2/\text{NDF}: 46896017480.0/18$

Left In: 0.871 ± 0.000 $\chi^2/\text{NDF}: 146788108726.3/20$

Left: 0.865 ± 0.000 $\chi^2/\text{NDF}: 271992496884.1/42$

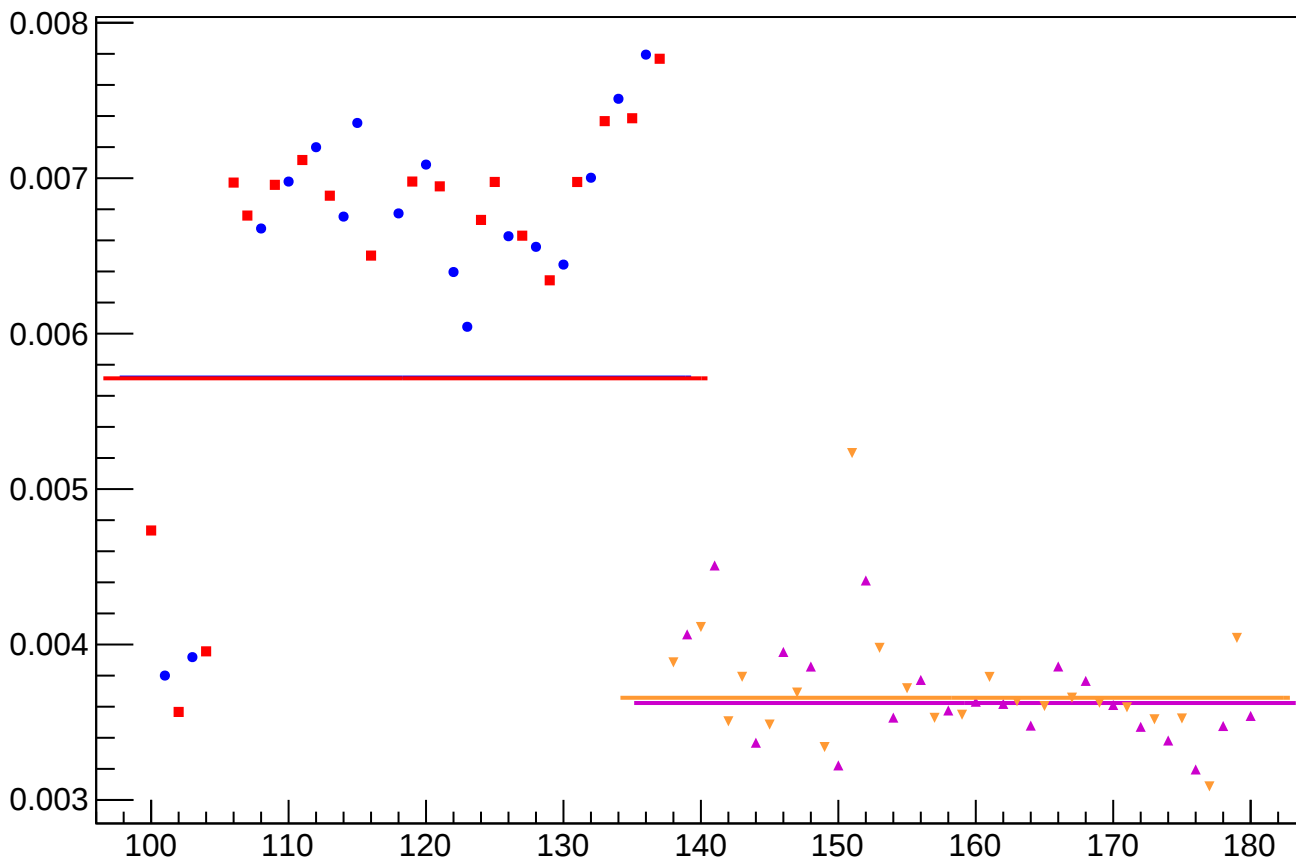
Right: -1.083 ± 0.000 $\chi^2/\text{NDF}: 102900070258.1/35$

In: 0.597 ± 0.000 $\chi^2/\text{NDF}: 806309673328.3/37$

Out: 0.581 ± 0.000 $\chi^2/\text{NDF}: 774953735268.0/40$

All: 0.589 ± 0.000 $\chi^2/\text{NDF}: 1581438272157.$

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 :235213.1/21

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :220054.4/20

Left: 0.004+/-0.000 χ^2/NDF : 456548.3/42

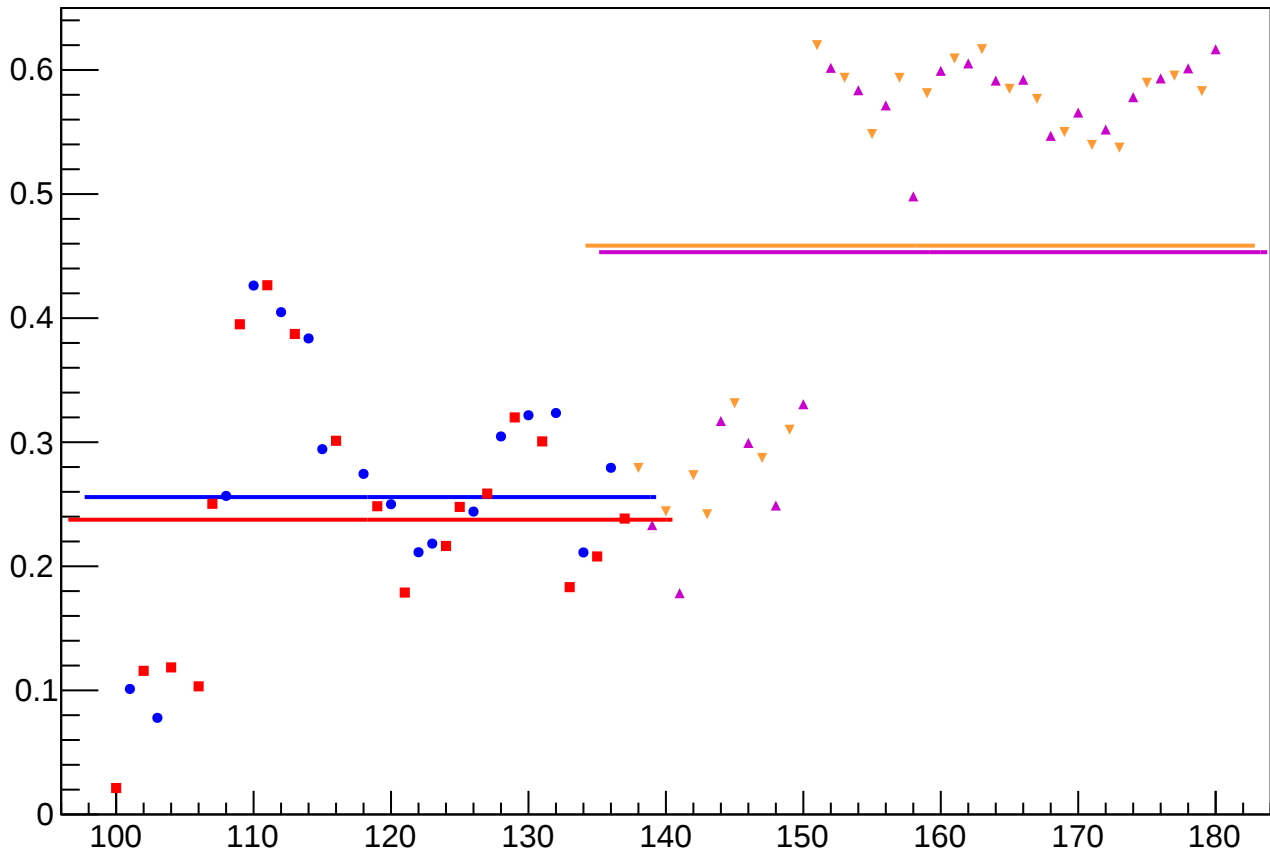
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2428832.4/37

Out: 0.004+/-0.000 χ^2/NDF :2524367.8/40

All: 0.004+/-0.000 χ^2/NDF : 4955128.5/78

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.458+/-0.000 χ^2/NDF : 96665328606.7/21

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.453+/-0.000 χ^2/NDF : 100655279157.4/20

Left: 0.456+/-0.000 χ^2/NDF : 197378129658.9/42

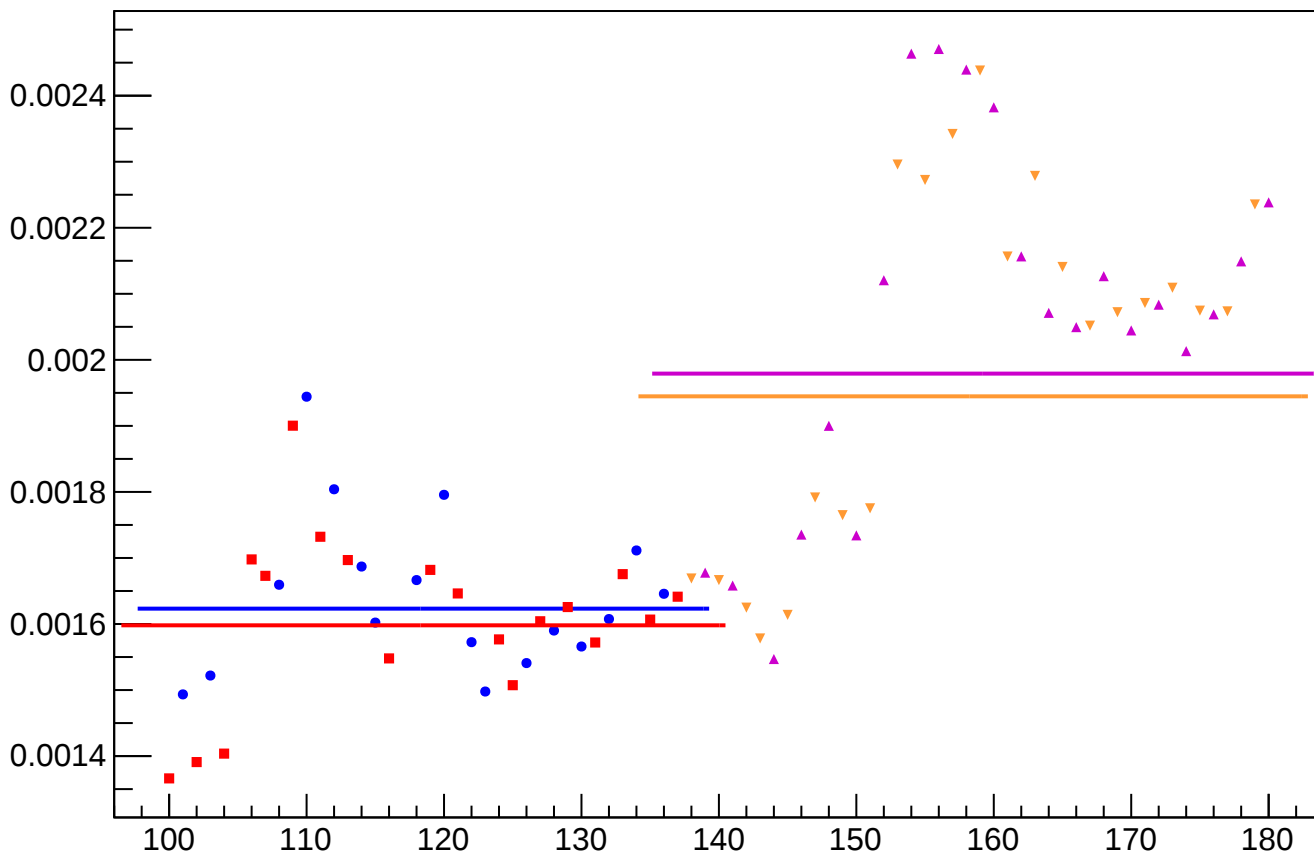
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.379+/-0.000 χ^2/NDF : 181292930829.1/37

Out: 0.372+/-0.000 χ^2/NDF : 203811399501.2/40

All: 0.375+/-0.000 χ^2/NDF : 385235558183.0

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 : 596444.1/21

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 605486.4/20

Left: 0.002+/-0.000 χ^2/NDF : 1206833.6/42

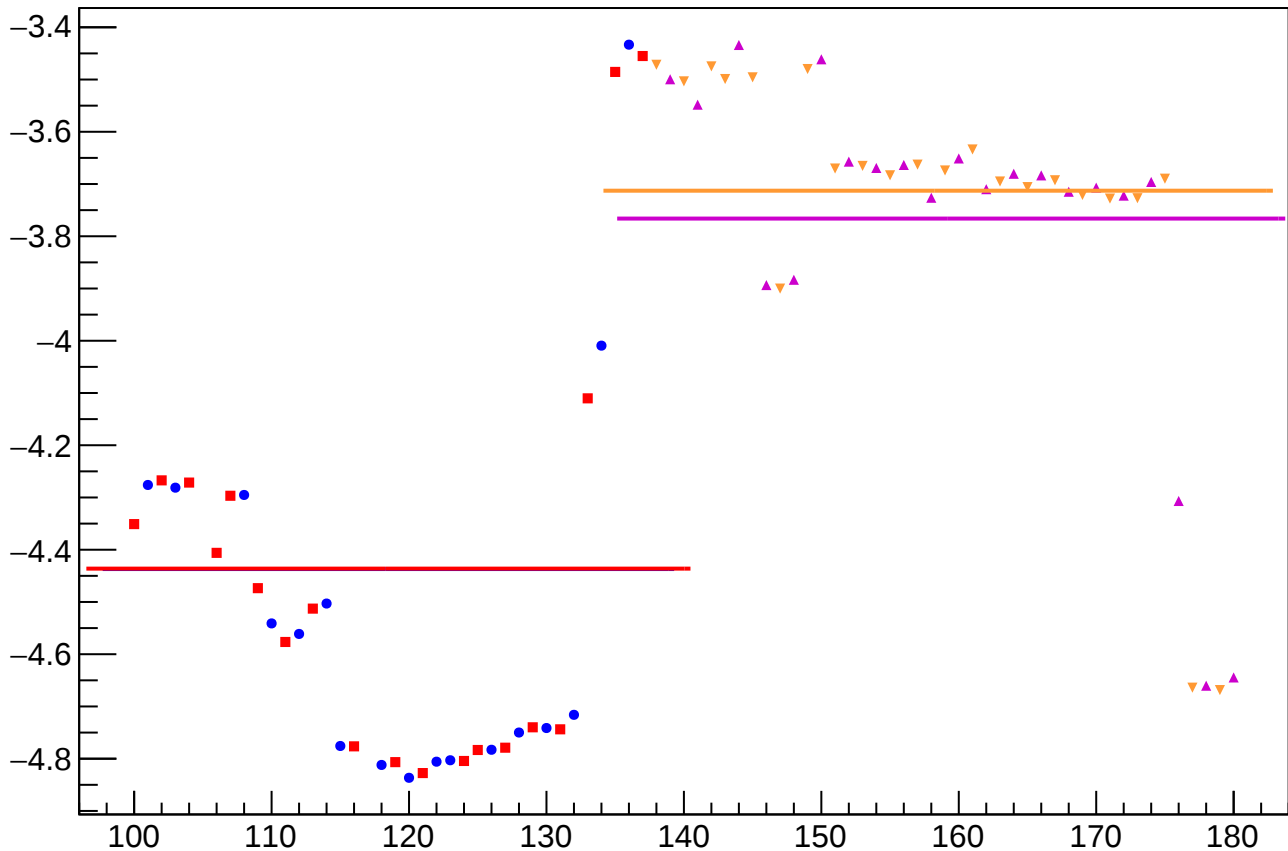
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 1043348.4/37

Out: 0.002+/-0.000 χ^2/NDF : 1086718.8/40

All: 0.002+/-0.000 χ^2/NDF : 2138338.8/78

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2 /NDF: 392812415429.0/16

Left Out: -3.713 $\pm$ 0.000 χ^2 /NDF: 320381632358.0/21

Right Out: -4.436 $\pm$ 0.000 χ^2 /NDF: 325183860699.4/18

Left In: -3.766 $\pm$ 0.000 χ^2 /NDF: 350923066244.3/20

Left: -3.739 $\pm$ 0.000 χ^2 /NDF: 676274770743.5/42

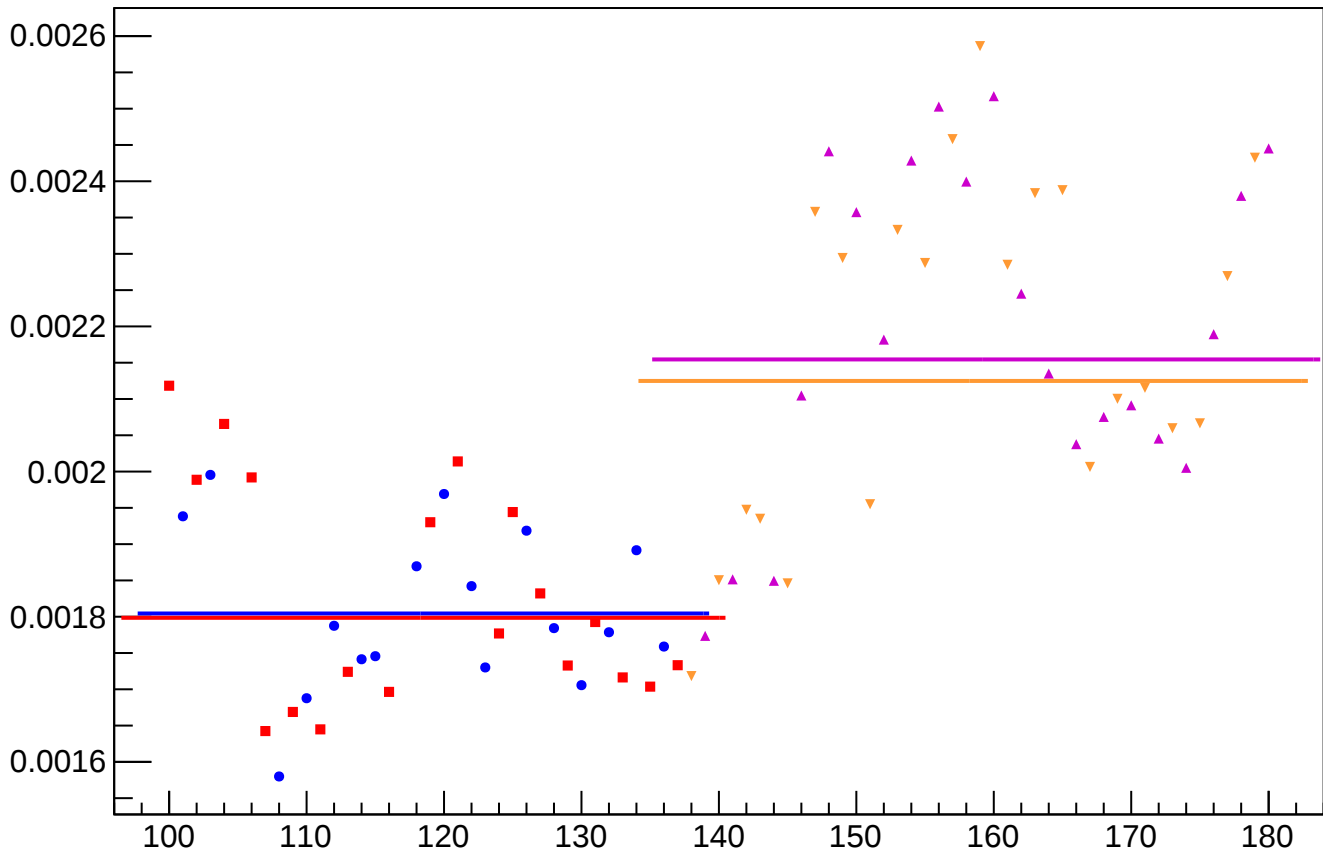
Right: -4.437 $\pm$ 0.000 χ^2 /NDF: 717996921060.6/35

In: -4.013 $\pm$ 0.000 χ^2 /NDF: 1311619026605.2/37

Out: -3.983 $\pm$ 0.000 χ^2 /NDF: 1341745168491.2/40

All: -3.998 $\pm$ 0.000 χ^2 /NDF: 2655909360318

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 : 377992.6/21

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF : 348431.0/20

Left: 0.002+/-0.000 χ^2/NDF : 729488.2/42

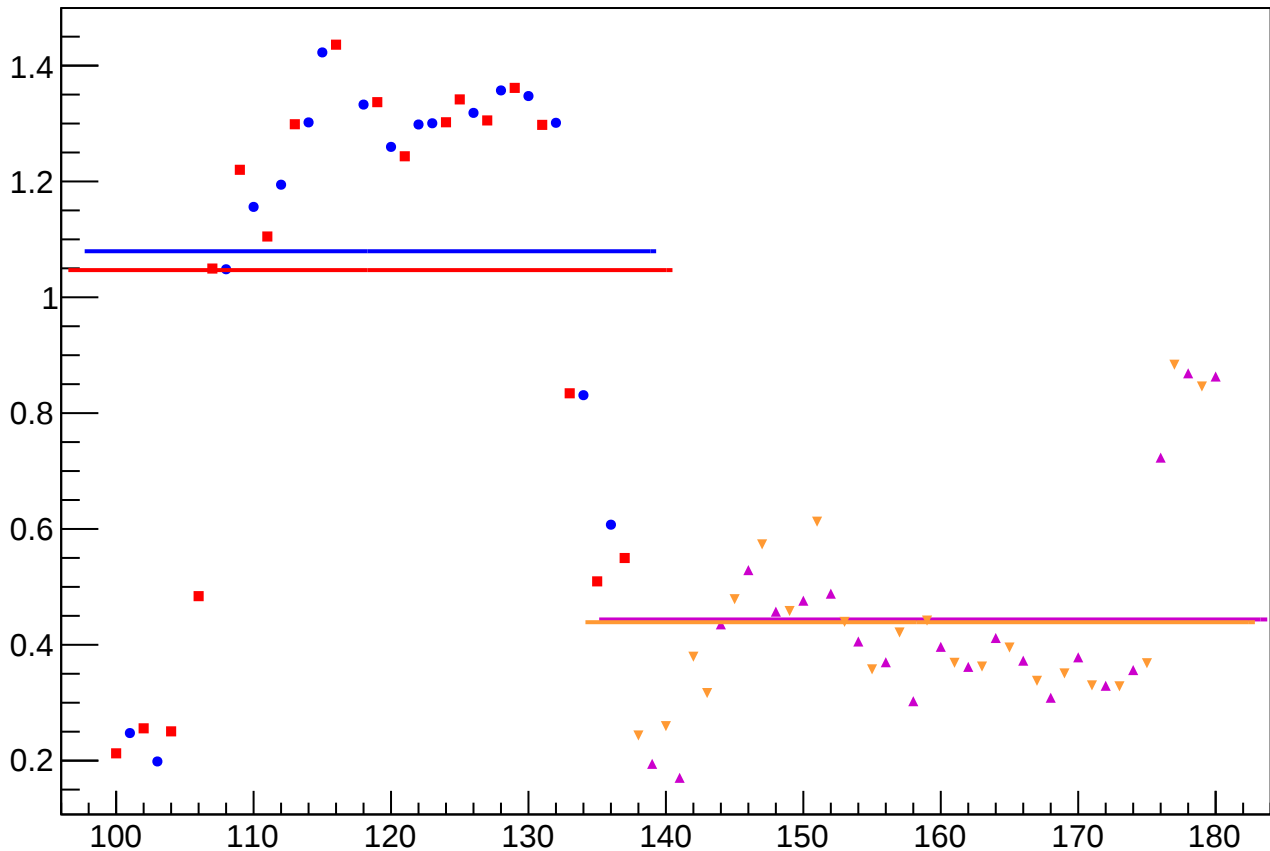
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF : 706801.3/37

Out: 0.002+/-0.000 χ^2/NDF : 742381.5/40

All: 0.002+/-0.000 χ^2/NDF : 1452008.2/78

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.439 $\pm$ 0.000 χ^2 /NDF: 5370291958.9/21

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.444 $\pm$ 0.000 χ^2 /NDF: 6329070641.0/20

Left: 0.441 $\pm$ 0.000 χ^2 /NDF: 11701461786.7/42

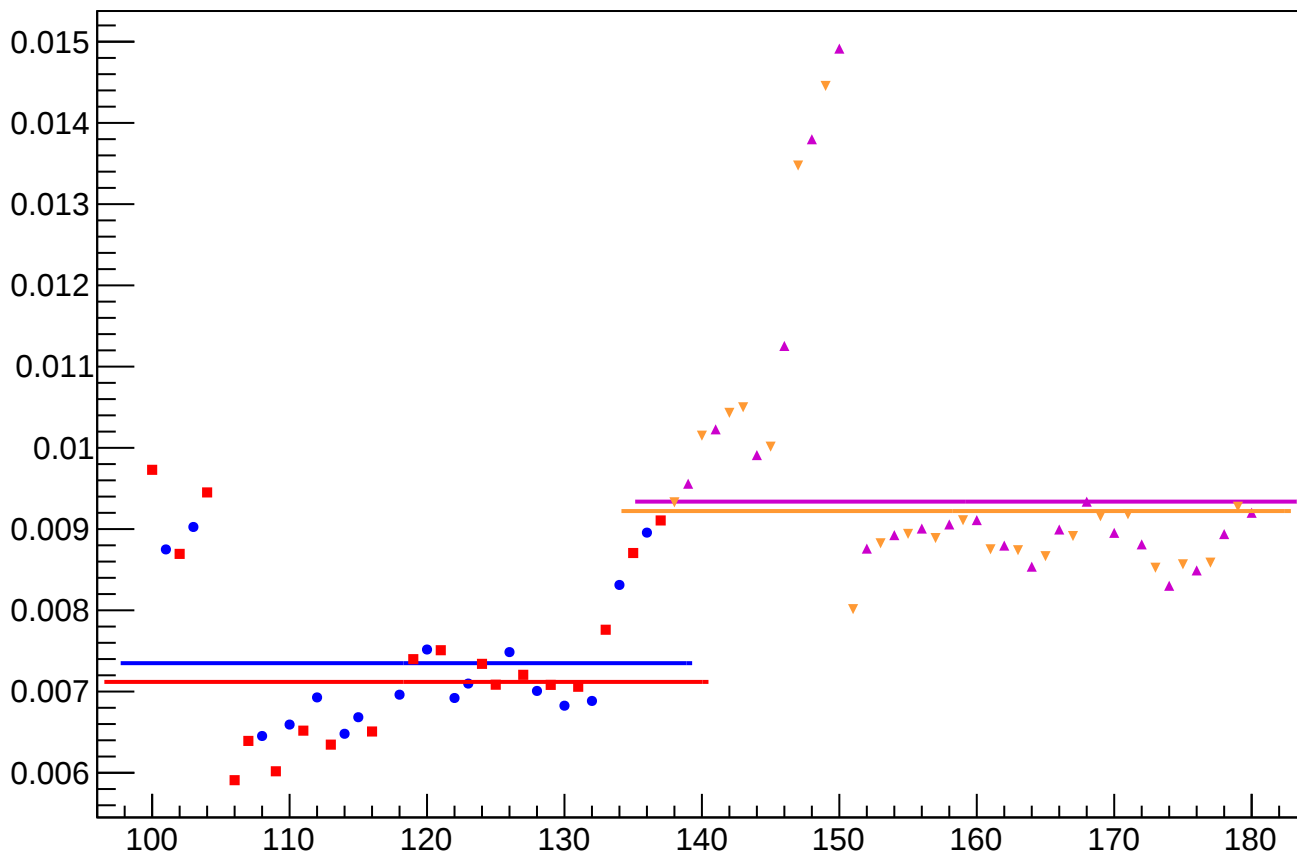
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.698 $\pm$ 0.000 χ^2 /NDF: 53494144809.7/37

Out: 0.694 $\pm$ 0.000 χ^2 /NDF: 54616377745.5/40

All: 0.696 $\pm$ 0.000 χ^2 /NDF: 108114147027.7

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 505459.2/21

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 555910.1/20

Left: 0.009+/-0.000 χ^2/NDF : 1063893.6/42

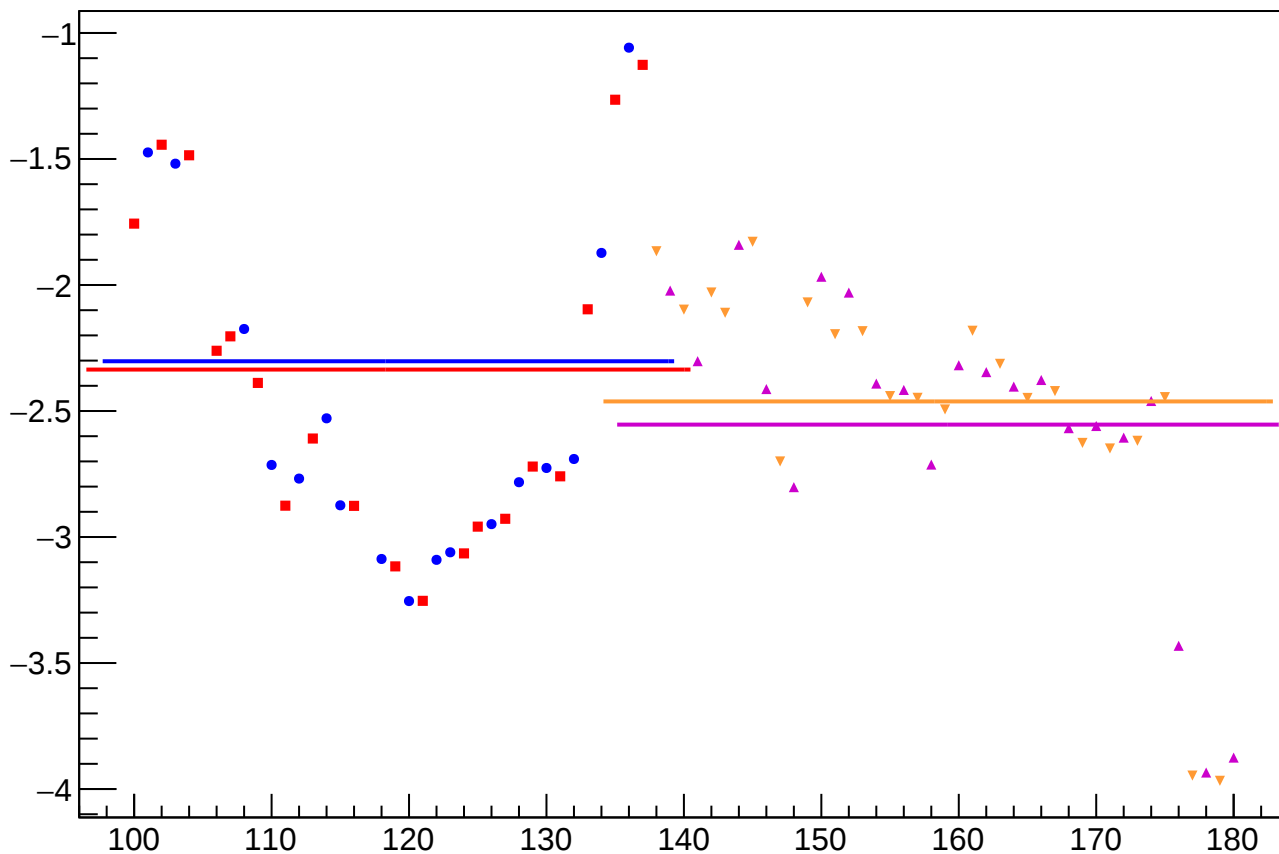
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1316632.8/37

Out: 0.008+/-0.000 χ^2/NDF : 1472235.4/40

All: 0.008+/-0.000 χ^2/NDF : 2801591.7/78

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.462+/-0.000 χ^2/NDF : 59236723601.9/21

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.554+/-0.000 χ^2/NDF : 60515363071.9/20

Left: -2.507+/-0.000 χ^2/NDF : 120671855943.1/42

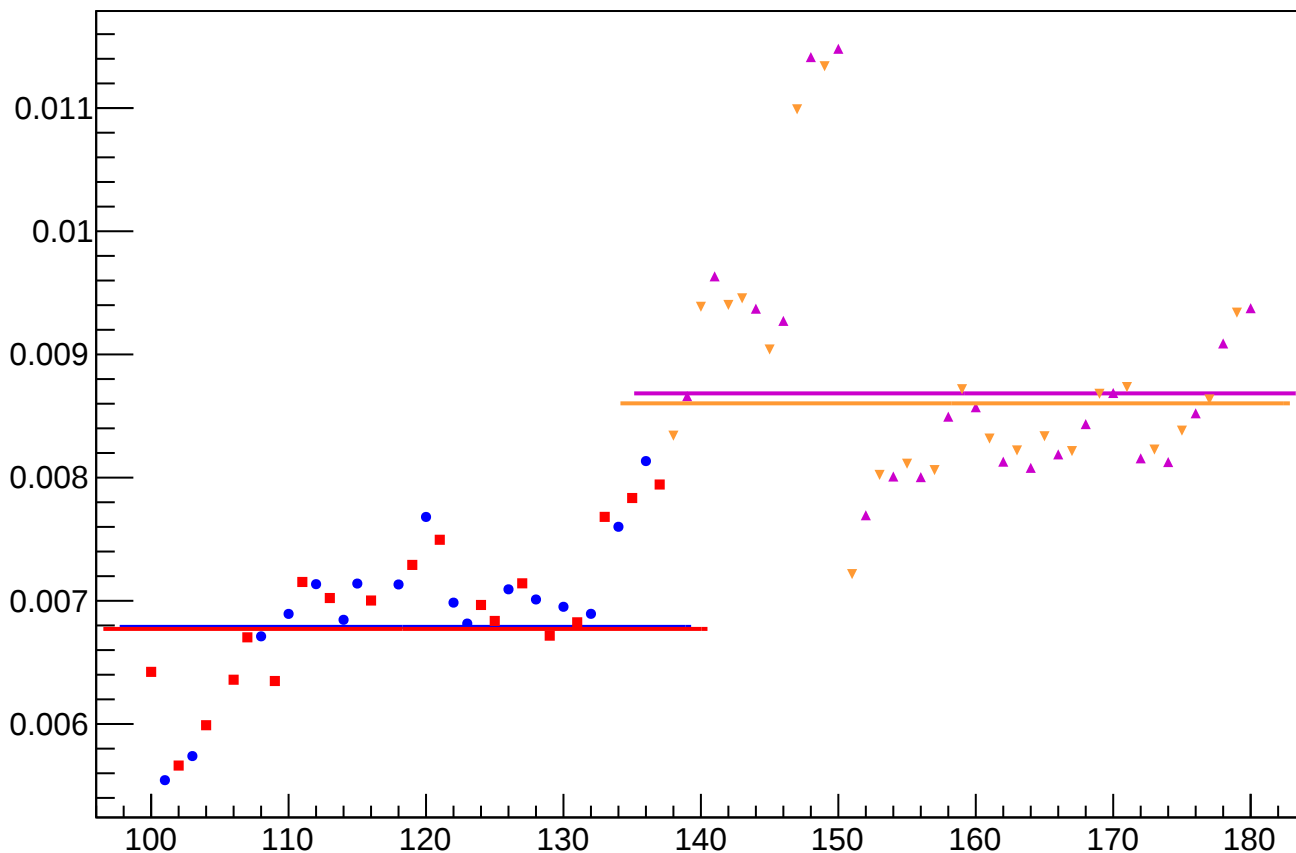
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.453+/-0.000 χ^2/NDF : 139710709790.9/37

Out: -2.410+/-0.000 χ^2/NDF : 125186567182.0/40

All: -2.431+/-0.000 χ^2/NDF : 265229636363.9

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF :304209.0/21

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF :323132.2/20

Left: 0.009+/-0.000 χ^2/NDF : 628765.4/42

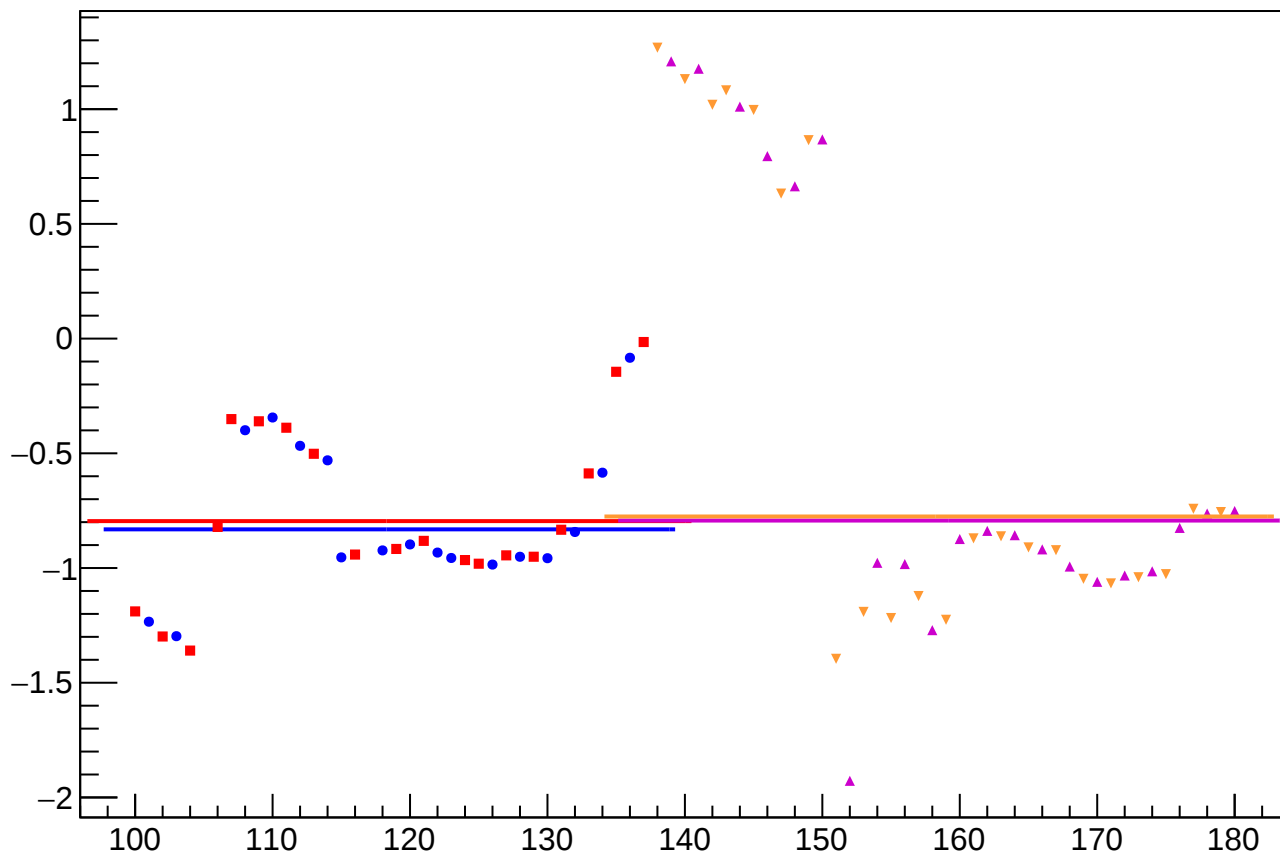
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF :1106731.0/37

Out: 0.008+/-0.000 χ^2/NDF :1036091.1/40

All: 0.008+/-0.000 χ^2/NDF : 2144554.7/78

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.784+/-0.000

χ^2/NDF : 241945145897.6/42

Left Out: -0.775+/-0.000

χ^2/NDF : 118485704273.3/21

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.800+/-0.000

χ^2/NDF : 130179997356.0/37

Out: -0.779+/-0.000

χ^2/NDF : 126326929371.4/40

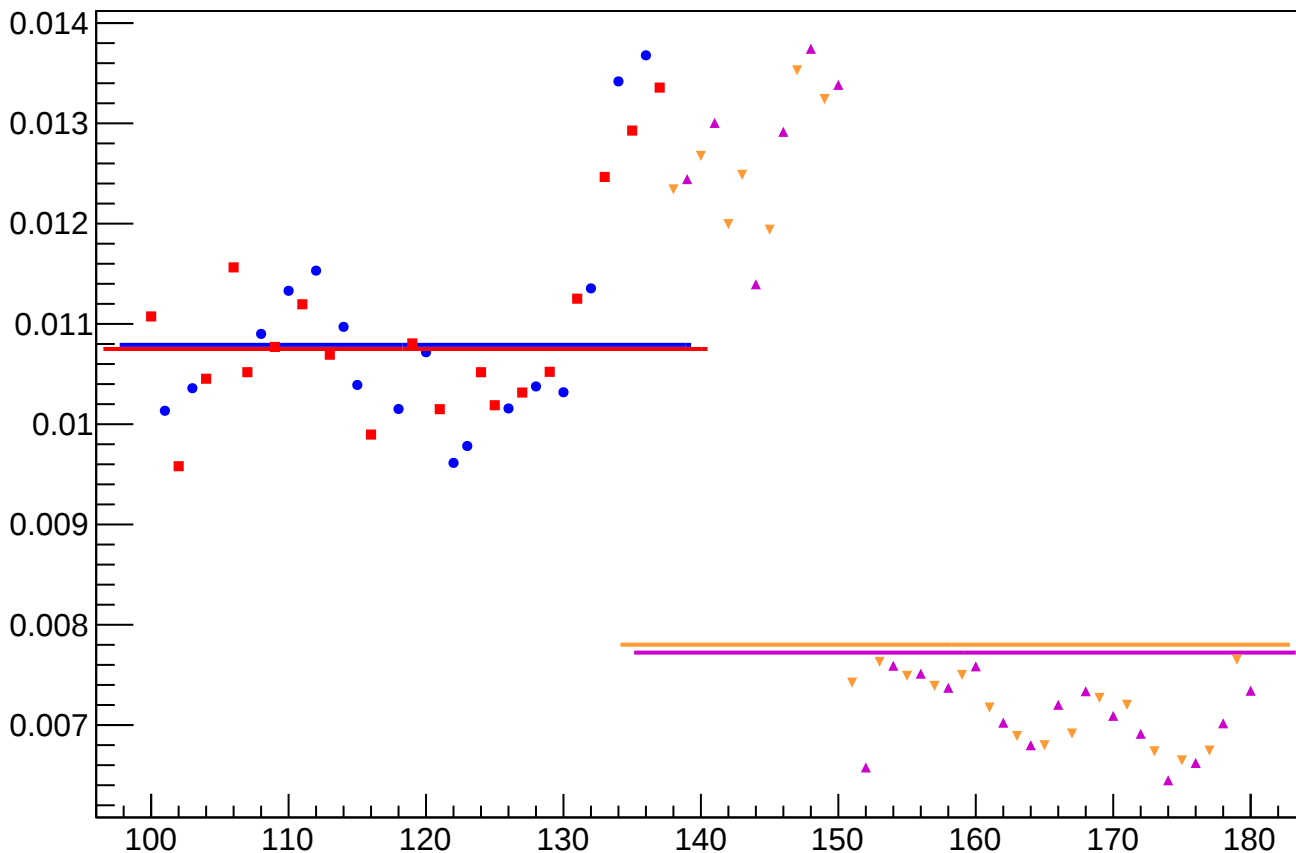
Left In: -0.793+/-0.000

χ^2/NDF : 123419832499.2/20

All: -0.790+/-0.000

χ^2/NDF : 256574455334.0

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF : 1676231.0/21

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF : 1745192.3/20

Left: 0.008+/-0.000 χ^2/NDF : 3423004.4/42

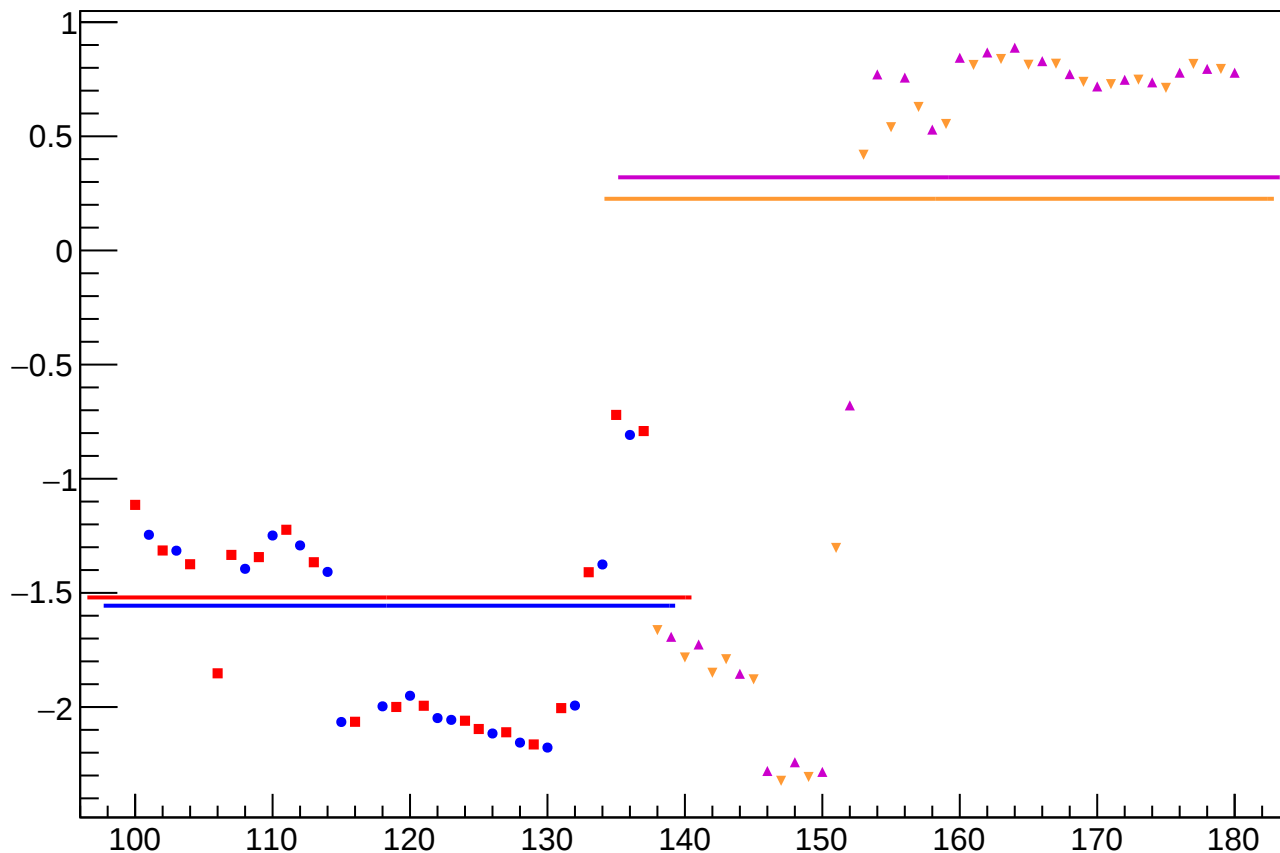
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.008+/-0.000 χ^2/NDF : 2740750.7/37

Out: 0.008+/-0.000 χ^2/NDF : 2606149.0/40

All: 0.008+/-0.000 χ^2/NDF : 5349078.3/78

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 0.273 +/- 0.000 χ^2/NDF : 4717156147633.4/42

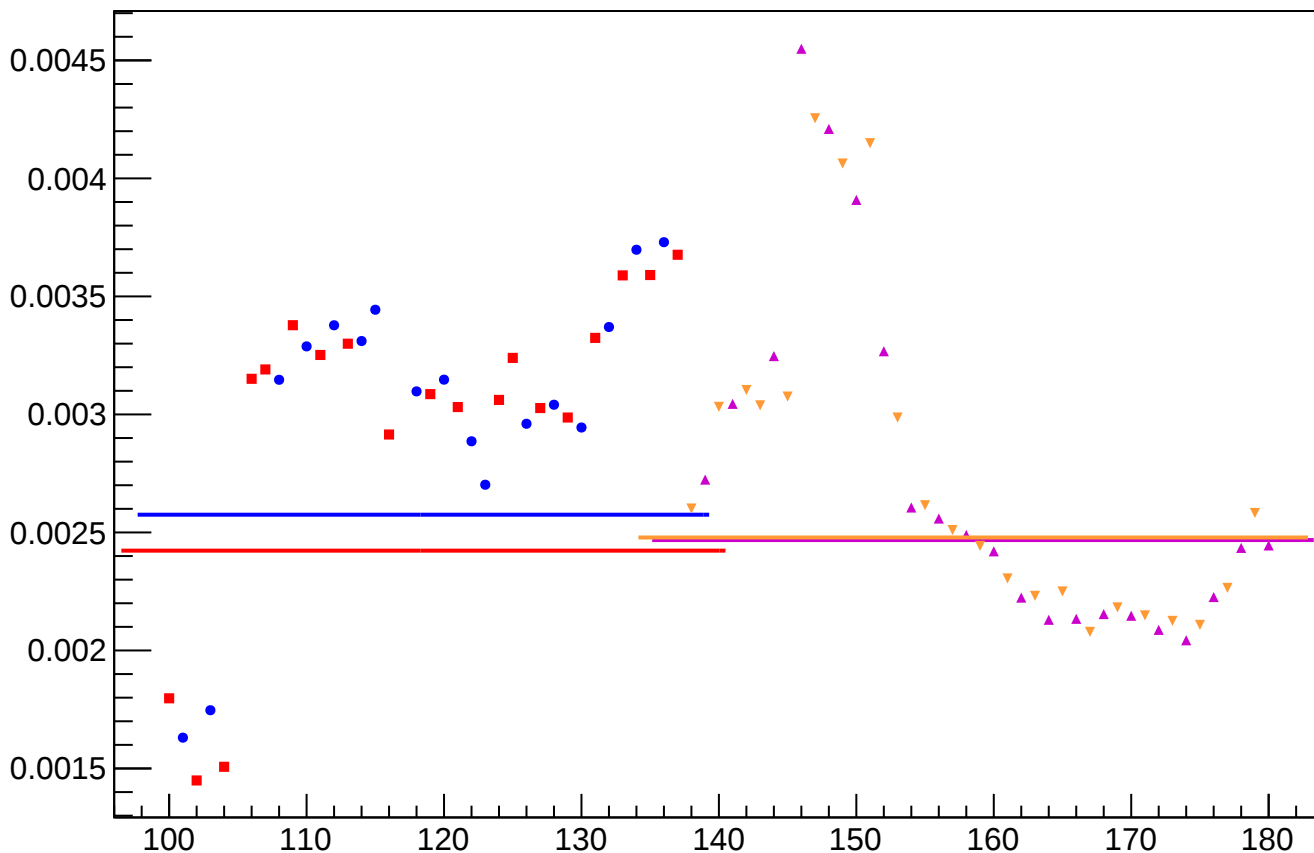
Right: -1.537 +/- 0.000 χ^2/NDF : 294029827862.9/35

In: -0.182 +/- 0.000 χ^2/NDF : 4599814872465.7/37

Out: -0.280 +/- 0.000 χ^2/NDF : 4691788548783.1/40

All: -0.232 +/- 0.000 χ^2/NDF : 9307245462671

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.002+/-0.000 χ^2/NDF :1059790.3/21

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.002+/-0.000 χ^2/NDF :1131943.2/20

Left: 0.002+/-0.000 χ^2/NDF : 2192011.4/42

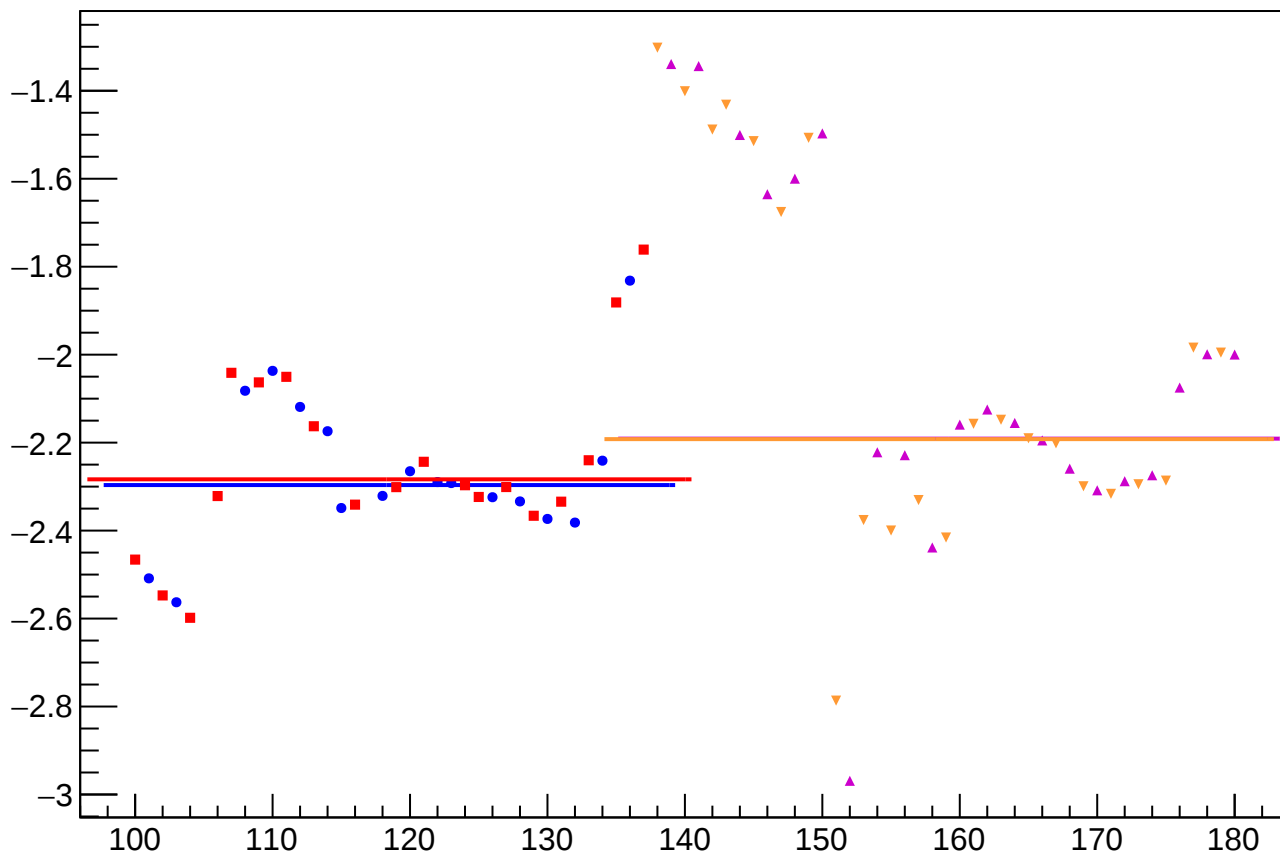
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.002+/-0.000 χ^2/NDF :2160189.5/37

Out: 0.002+/-0.000 χ^2/NDF :2554187.4/40

All: 0.002+/-0.000 χ^2/NDF : 4718154.9/78

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5782980938.4/16

Left: -2.191+/-0.000

χ^2/NDF : 128398511291.9/42

Left Out: -2.192+/-0.000

χ^2/NDF : 56599623723.9/21

Right: -2.290+/-0.000

χ^2/NDF : 12344935761.7/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6548716896.9/18

In: -2.210+/-0.000

χ^2/NDF : 78962865066.8/37

Out: -2.210+/-0.000

χ^2/NDF : 64232123449.6/40

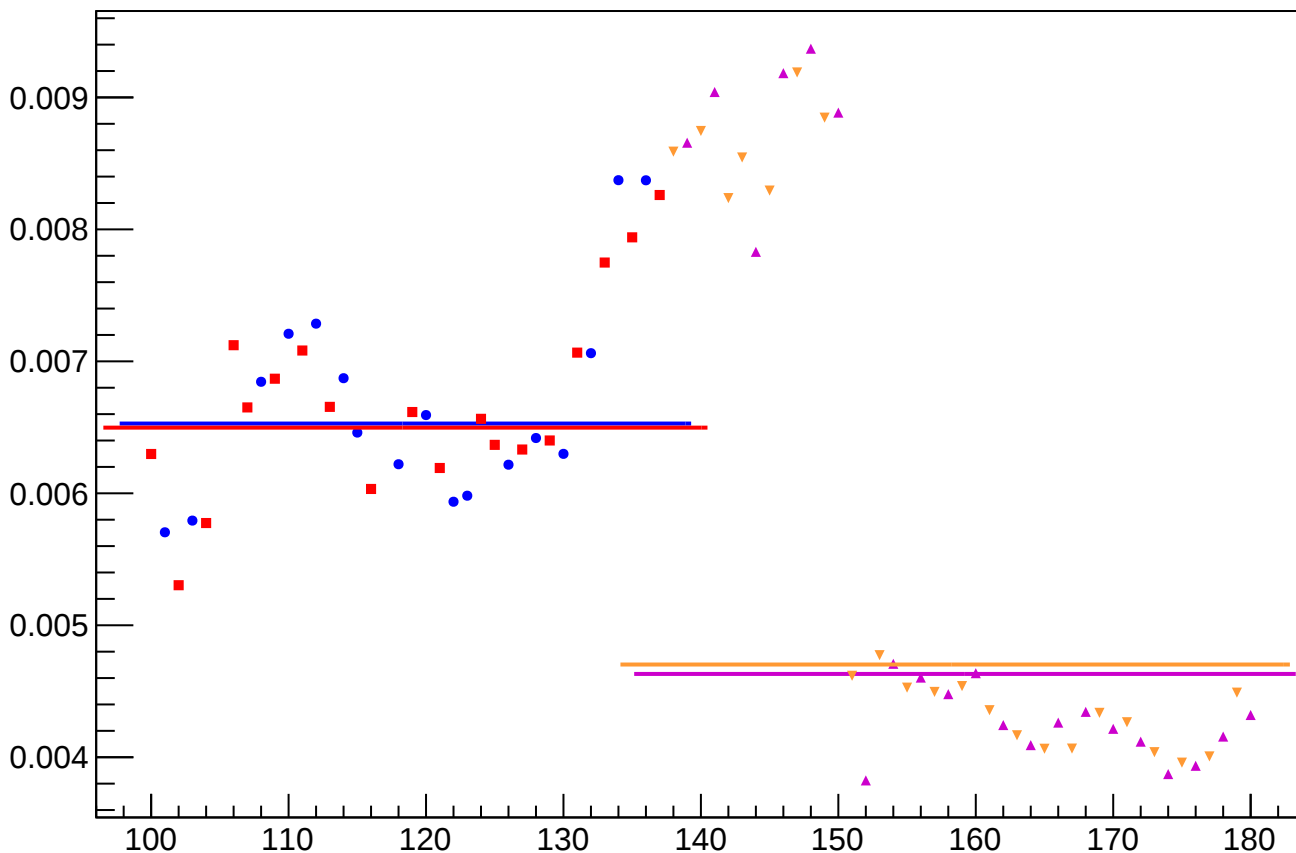
Left In: -2.191+/-0.000

χ^2/NDF : 71798480456.3/20

All: -2.210+/-0.000

χ^2/NDF : 143195103512.0

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 :2274467.7/21

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF :2363730.0/20

Left: 0.005+/-0.000 χ^2/NDF : 4641643.8/42

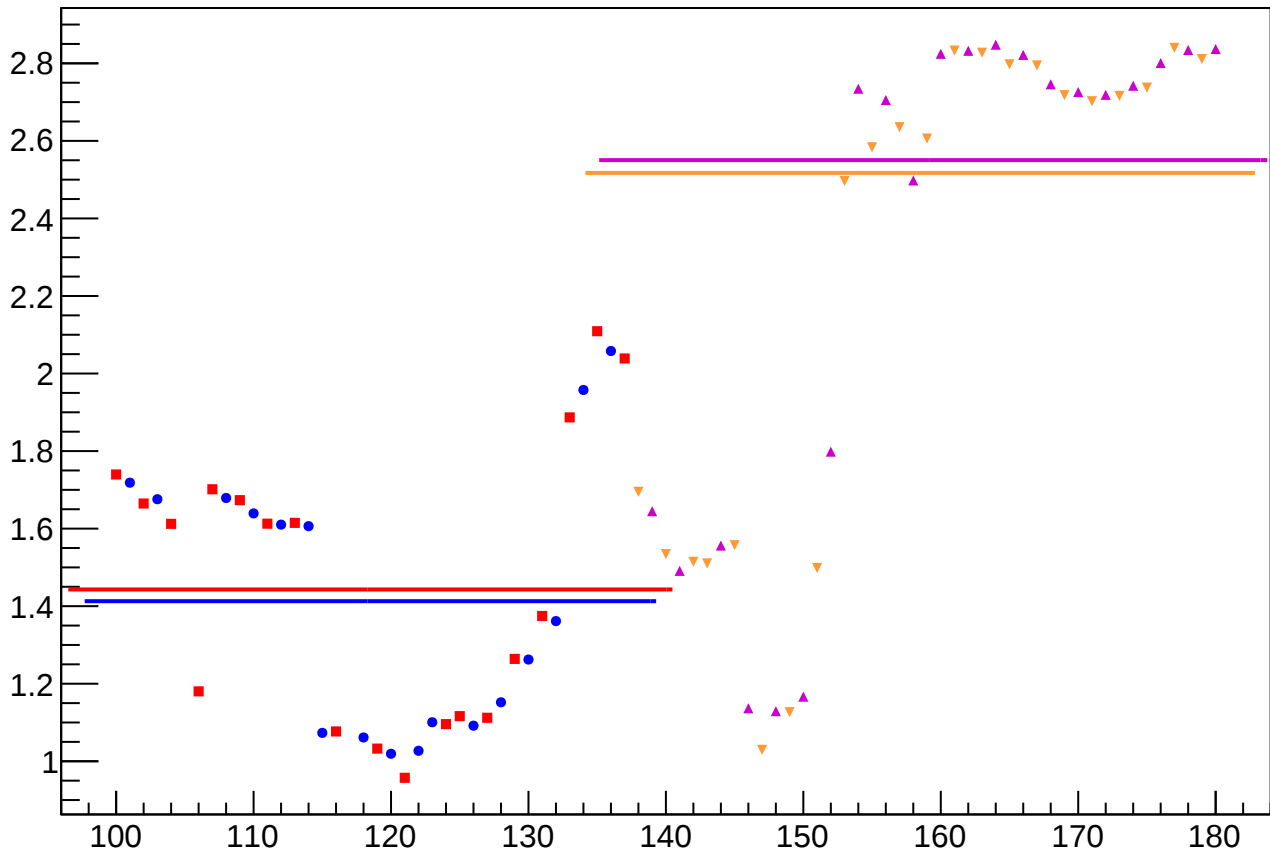
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :3433286.7/37

Out: 0.005+/-0.000 χ^2/NDF :3274539.0/40

All: 0.005+/-0.000 χ^2/NDF : 6712073.9/78

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.517+/-0.000 χ^2/NDF : 258059003982.9/21

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.550+/-0.000 χ^2/NDF : 256111193346.8/20

Left: 2.534+/-0.000 χ^2/NDF : 514809509433.2/42

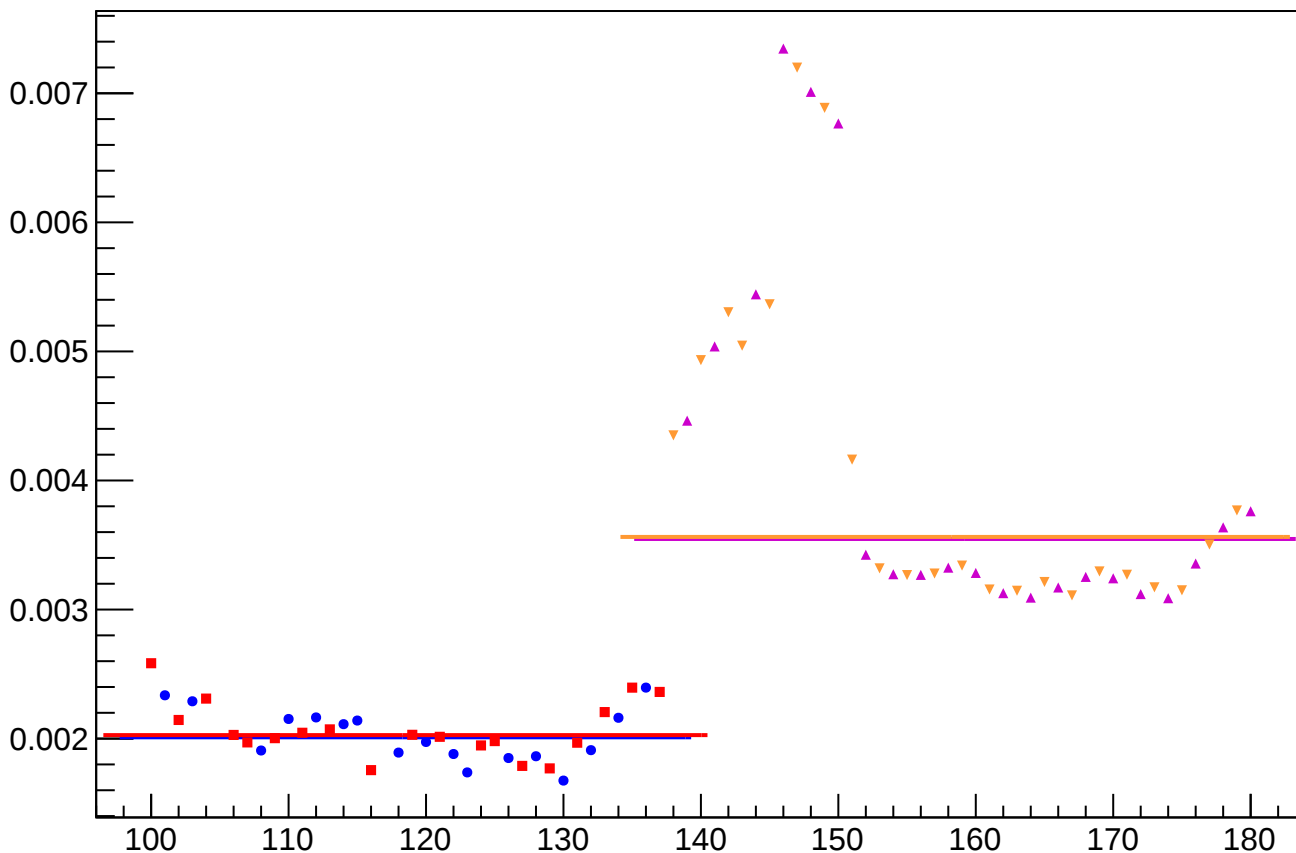
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.904+/-0.000 χ^2/NDF : 1281917706639.8/37

Out: 1.902+/-0.000 χ^2/NDF : 1209339356470.9/40

All: 1.903+/-0.000 χ^2/NDF : 2491262871278.

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 :1355278.6/21

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1542958.0/20

Left: 0.004+/-0.000 χ^2/NDF : 2898529.2/42

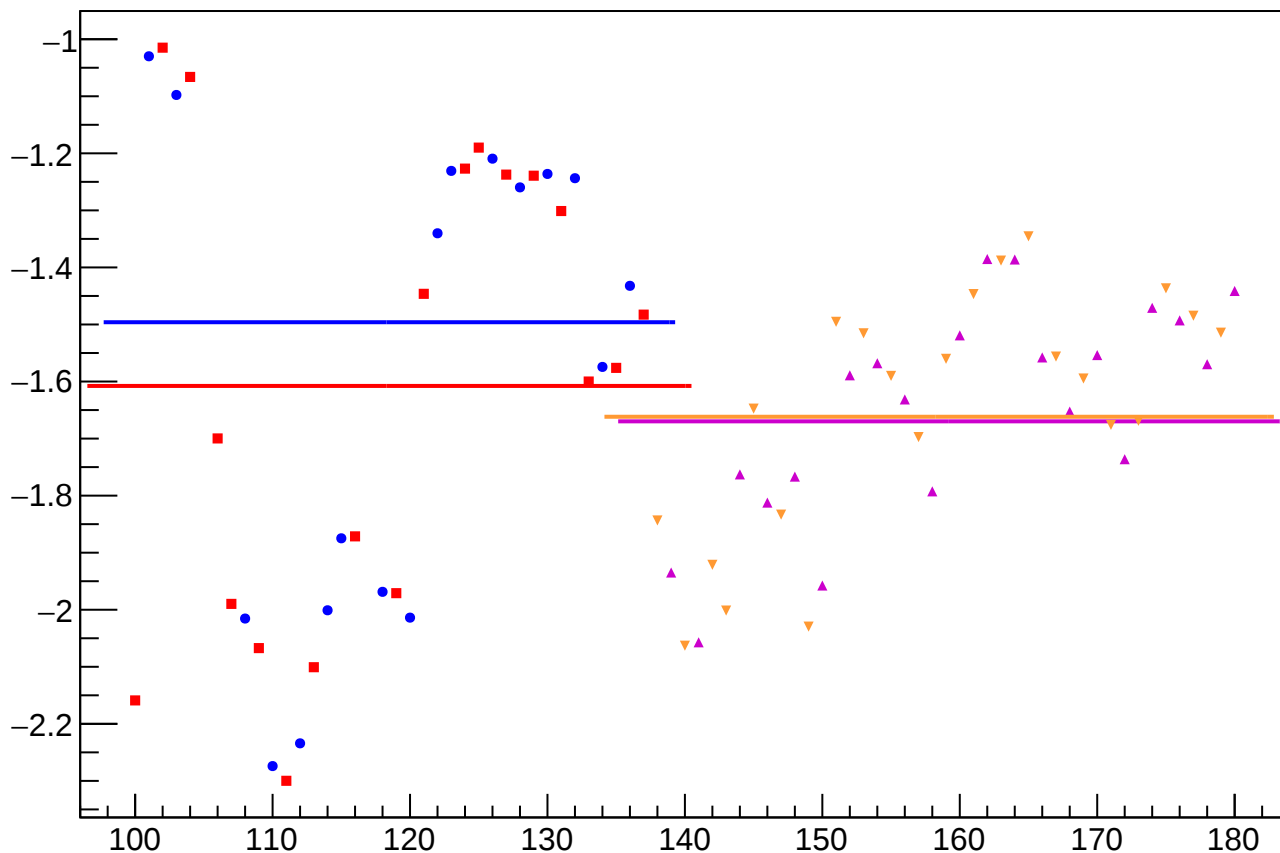
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4809525.1/37

Out: 0.003+/-0.000 χ^2/NDF :4638440.8/40

All: 0.003+/-0.000 χ^2/NDF : 9448204.9/78

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.662+/-0.000 χ^2/NDF : 17869877835.8/21

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.670+/-0.000 χ^2/NDF : 14128673849.0/20

Left: -1.666+/-0.000 χ^2/NDF : 32011457440.9/42

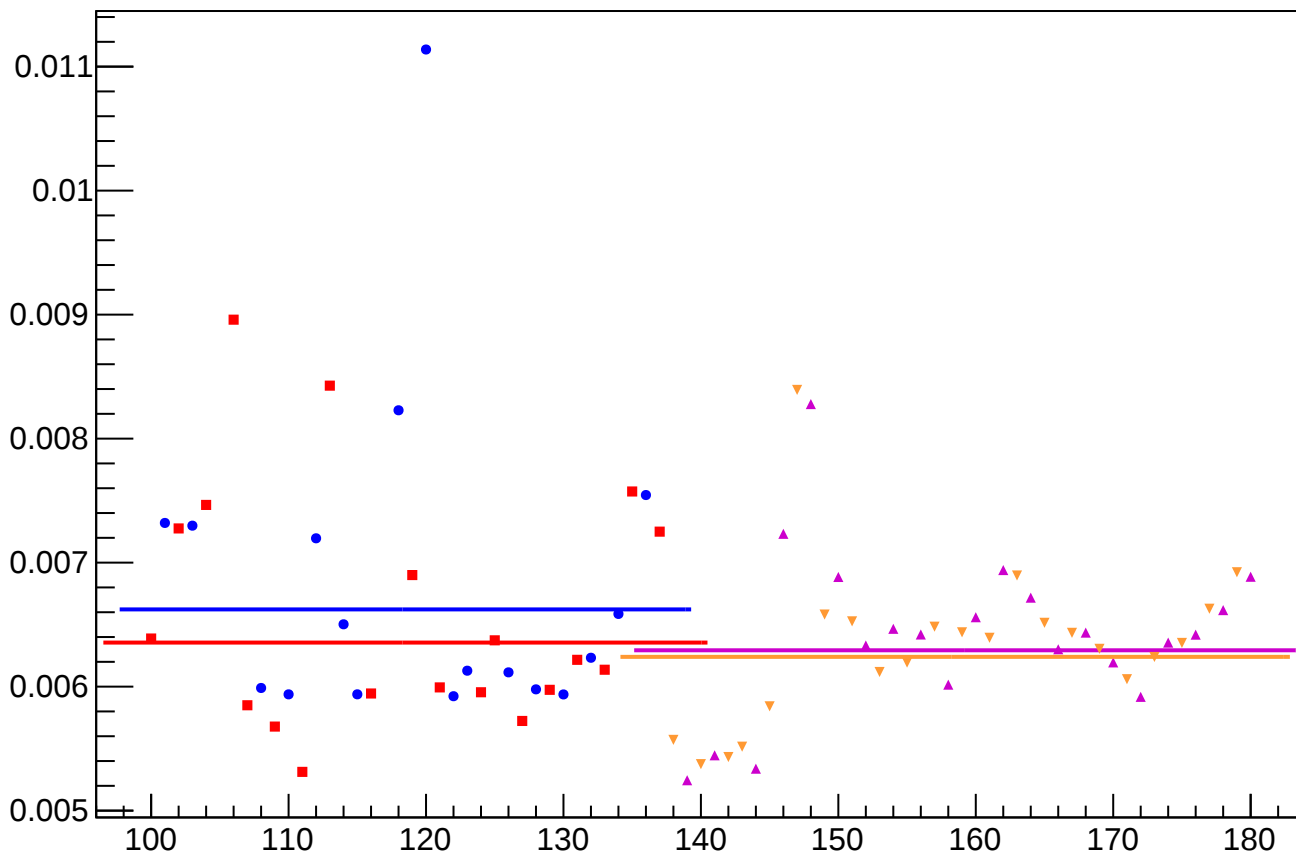
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.624+/-0.000 χ^2/NDF : 39743276673.7/37

Out: -1.646+/-0.000 χ^2/NDF : 46045415343.4/40

All: -1.636+/-0.000 χ^2/NDF : 85921983476.2/77

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :250066.3/21

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :312102.4/20

Left: 0.006+/-0.000 χ^2/NDF : 563283.0/42

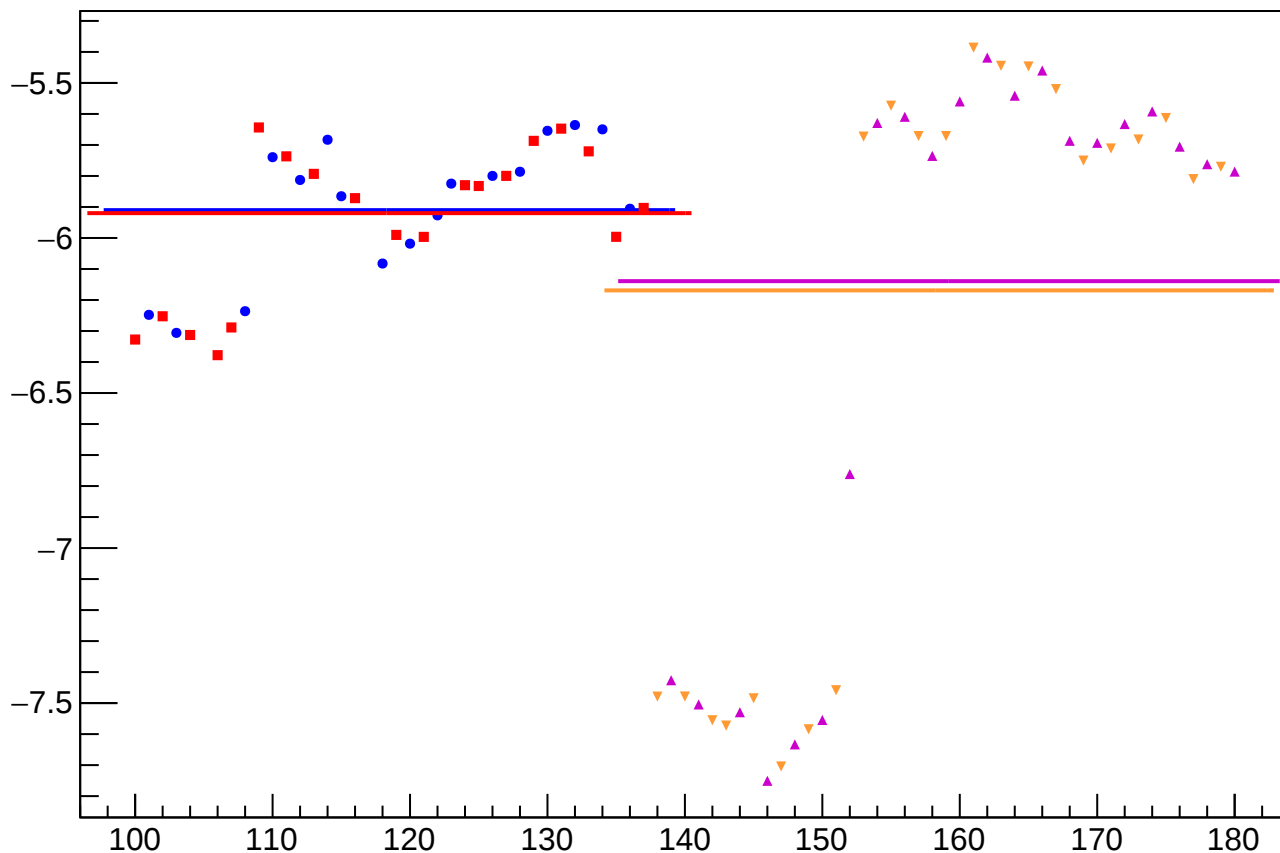
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :566979.3/37

Out: 0.006+/-0.000 χ^2/NDF :481012.2/40

All: 0.006+/-0.000 χ^2/NDF : 1054201.9/78

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.169+/-0.000 χ^2/NDF : 180264257250.7/21

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.139+/-0.000 χ^2/NDF : 156667346503.2/20

Left: -6.154+/-0.000 χ^2/NDF : 337036392296.6/42

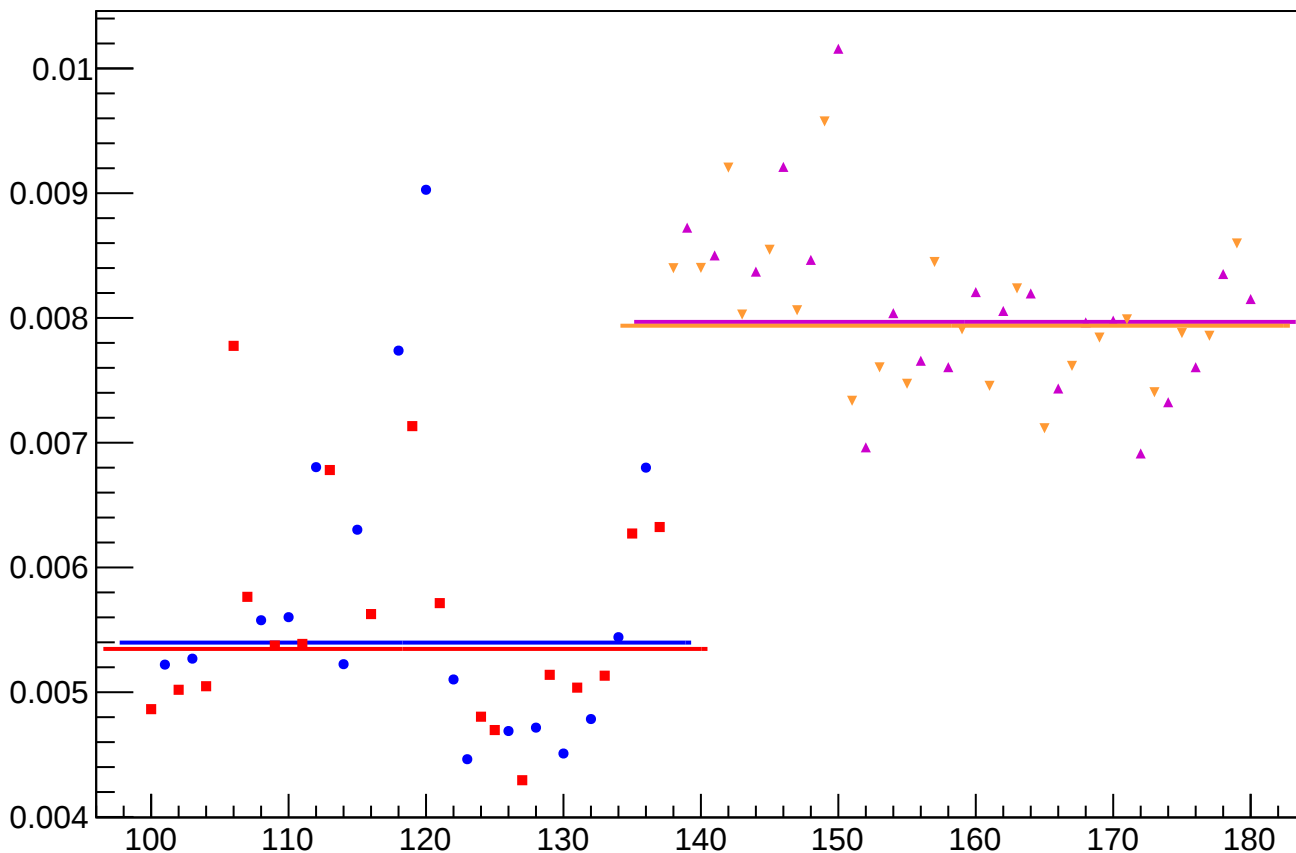
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.033+/-0.000 χ^2/NDF : 173527562447.1/37

Out: -6.048+/-0.000 χ^2/NDF : 200178551704.6/40

All: -6.041+/-0.000 χ^2/NDF : 373758646480.8

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 :132670.5/21

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :208523.0/20

Left: 0.008+/-0.000 χ^2/NDF : 341413.0/42

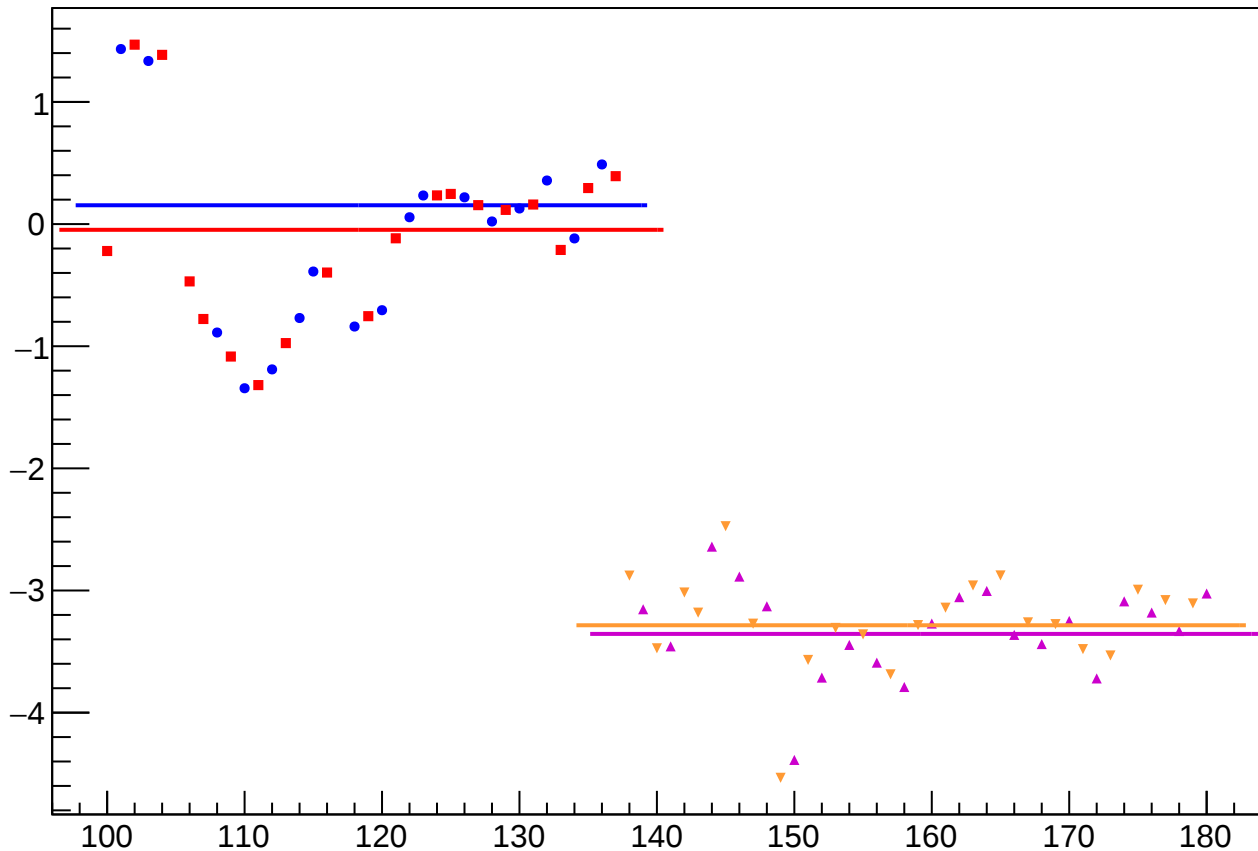
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :2017613.4/37

Out: 0.007+/-0.000 χ^2/NDF :1923905.6/40

All: 0.007+/-0.000 χ^2/NDF : 3945453.1/78

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.285+/-0.000 χ^2/NDF : 8781035534.2/21

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.355+/-0.000 χ^2/NDF : 8092963330.2/20

Left: -3.320+/-0.000 χ^2/NDF : 17031761651.0/42

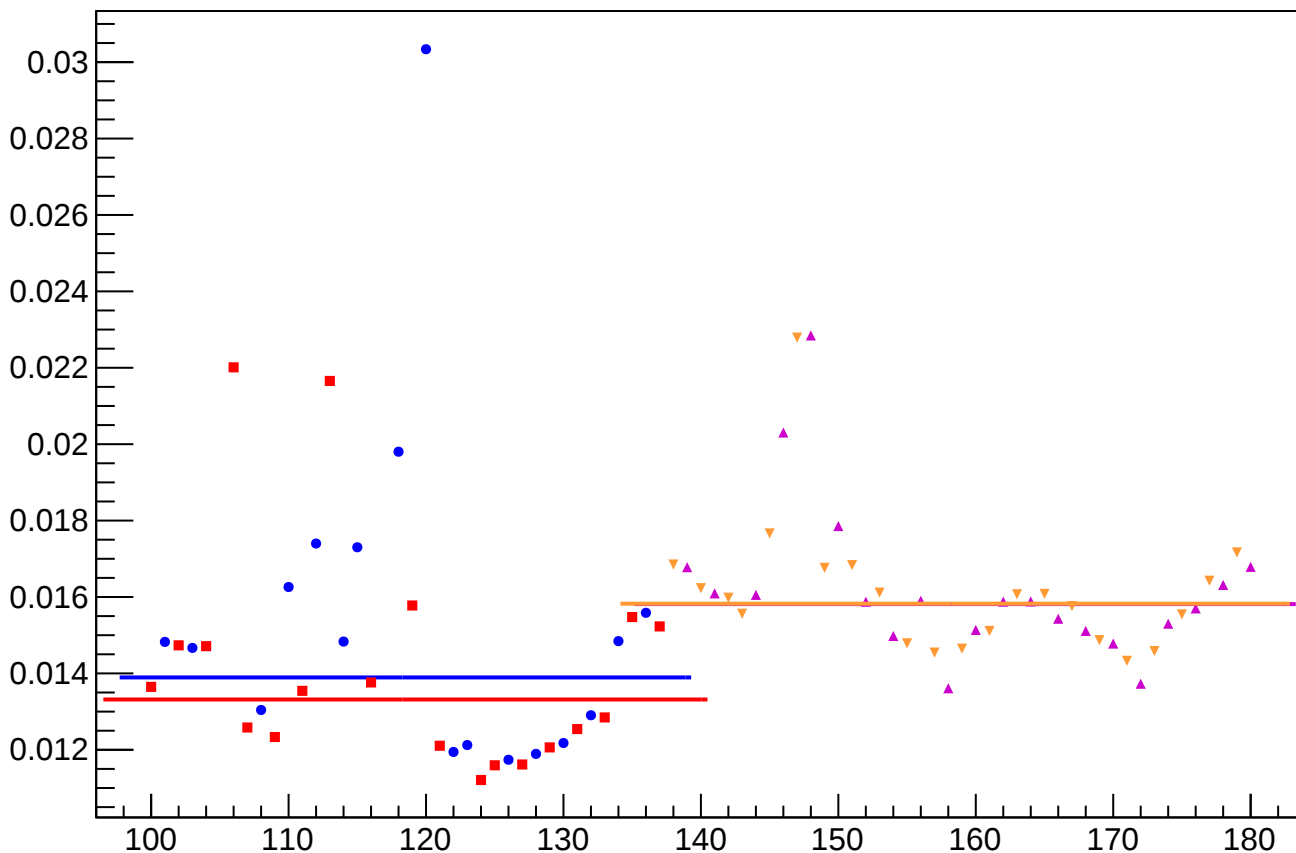
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.198+/-0.000 χ^2/NDF : 278252405520.1/37

Out: -2.104+/-0.000 χ^2/NDF : 272559235929.9/40

All: -2.149+/-0.000 χ^2/NDF : 551238865624.7

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 :244127.5/21

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :336032.5/20

Left: 0.016+/-0.000 χ^2/NDF : 580167.5/42

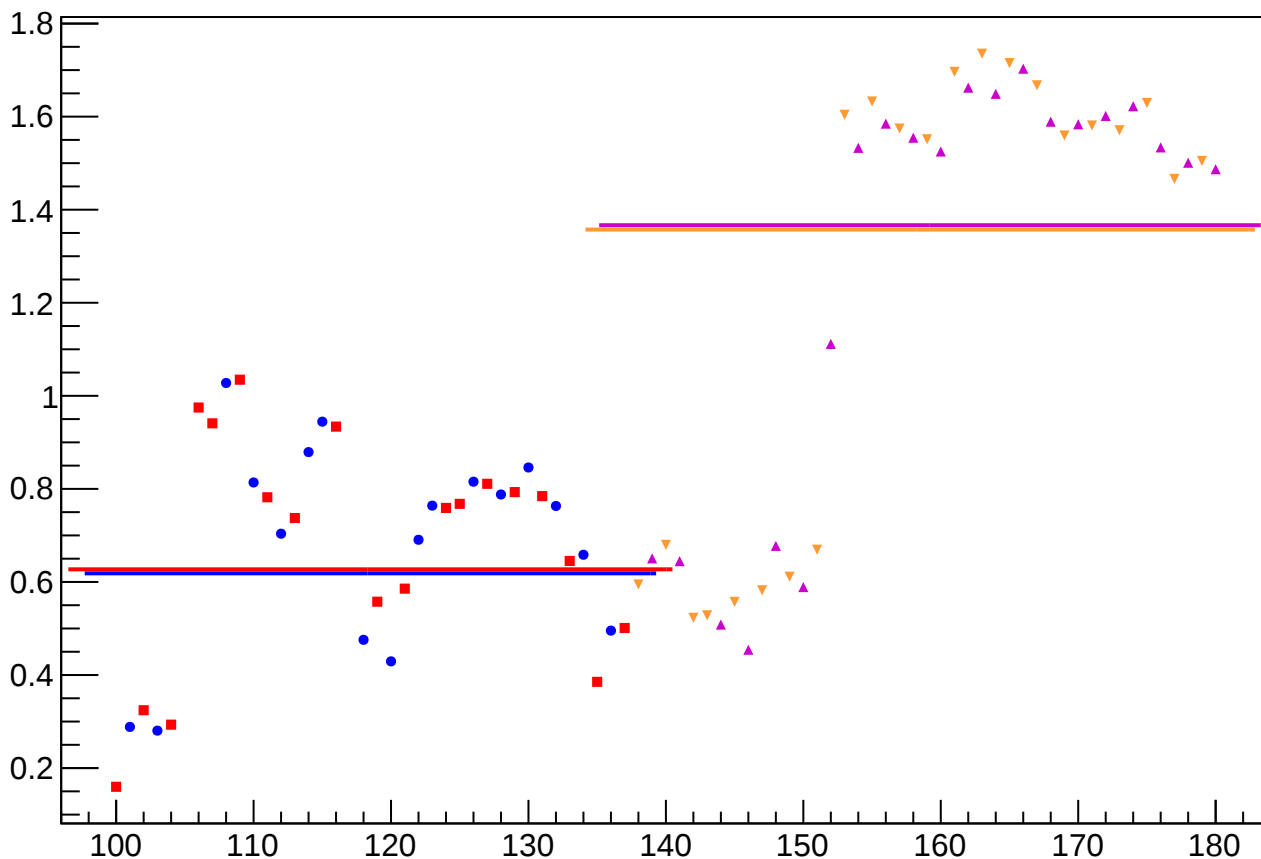
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :888103.3/37

Out: 0.015+/-0.000 χ^2/NDF :826598.0/40

All: 0.015+/-0.000 χ^2/NDF : 1721755.0/78

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619 $\pm$ 0.000 χ^2 /NDF: 5416939288.1/16

Left Out: 1.357 $\pm$ 0.000 χ^2 /NDF: 72622018683.5/21

Right Out: 0.627 $\pm$ 0.000 χ^2 /NDF: 6337935219.4/18

Left In: 1.367 $\pm$ 0.000 χ^2 /NDF: 63024638189.4/20

Left: 1.362 $\pm$ 0.000 χ^2 /NDF: 135664056108.8/42

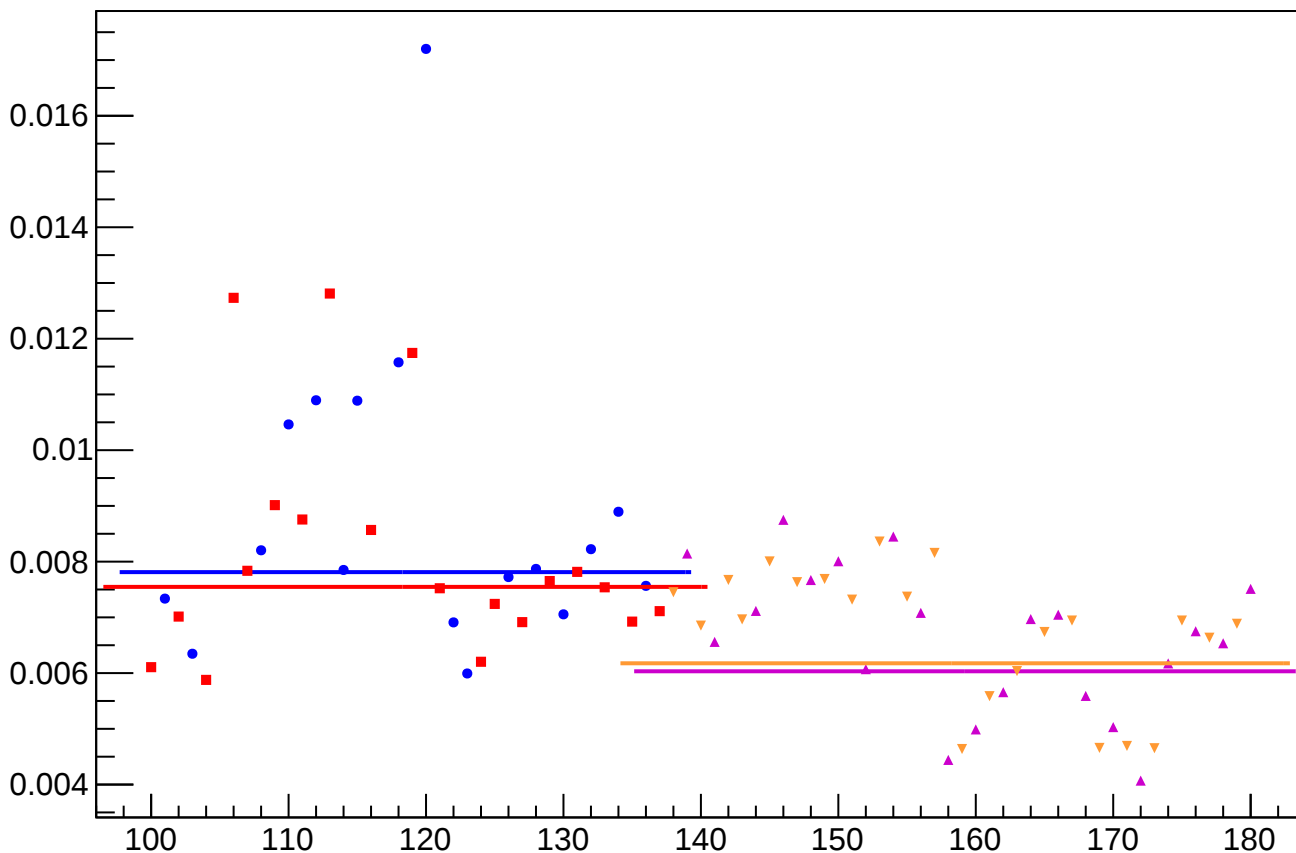
Right: 0.623 $\pm$ 0.000 χ^2 /NDF: 11758668415.9/35

In: 1.225 $\pm$ 0.000 χ^2 /NDF: 111682581471.7/37

Out: 1.198 $\pm$ 0.000 χ^2 /NDF: 124298567005.8/40

All: 1.212 $\pm$ 0.000 χ^2 /NDF: 236155561697.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1268525.2/21

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1400251.1/20

Left: 0.006+/-0.000 χ^2/NDF : 2676979.6/42

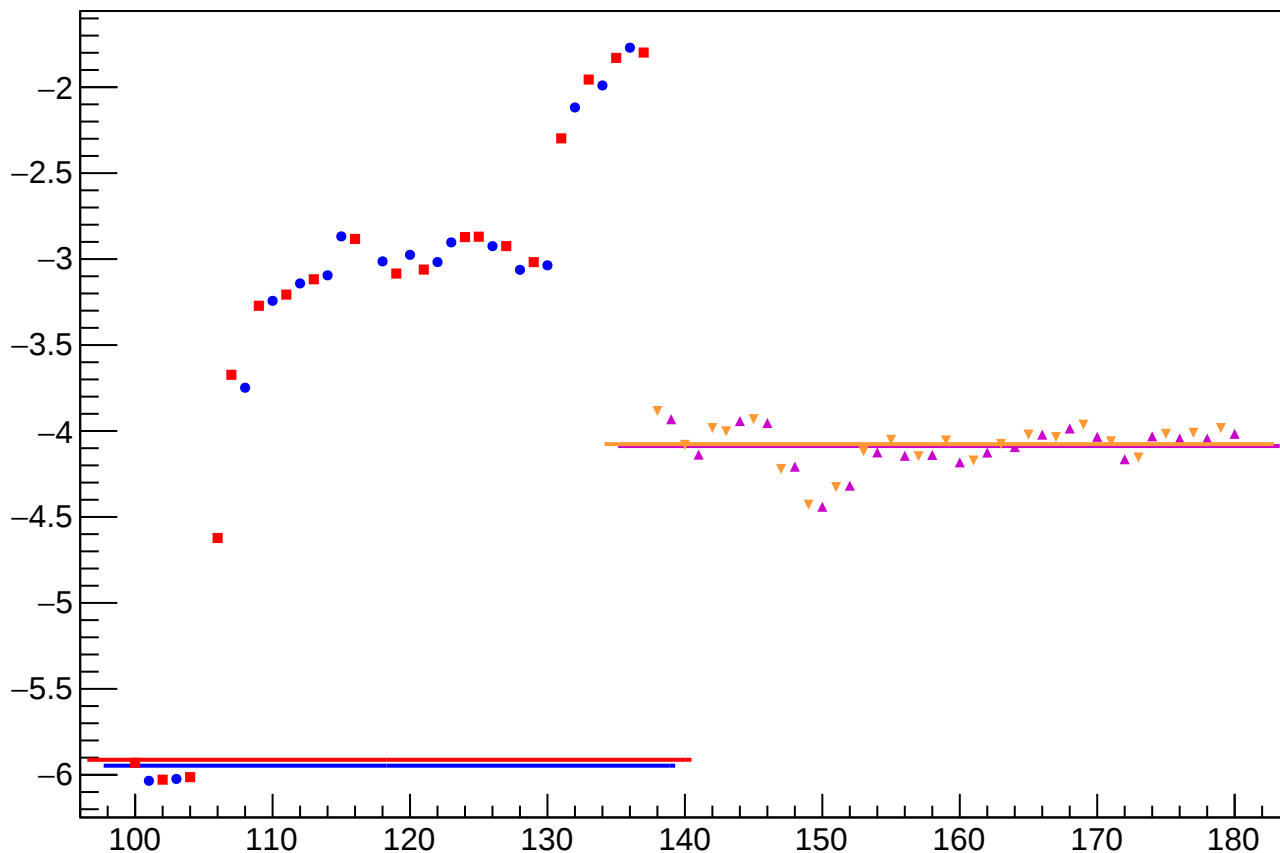
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2356318.4/37

Out: 0.006+/-0.000 χ^2/NDF :2030112.6/40

All: 0.006+/-0.000 χ^2/NDF : 4391891.5/78

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.076+/-0.000 χ^2/NDF : 36157920.0/21

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.088+/-0.000 χ^2/NDF : 34402474.9/20

Left: -4.084+/-0.000 χ^2/NDF : 70741500.4/42

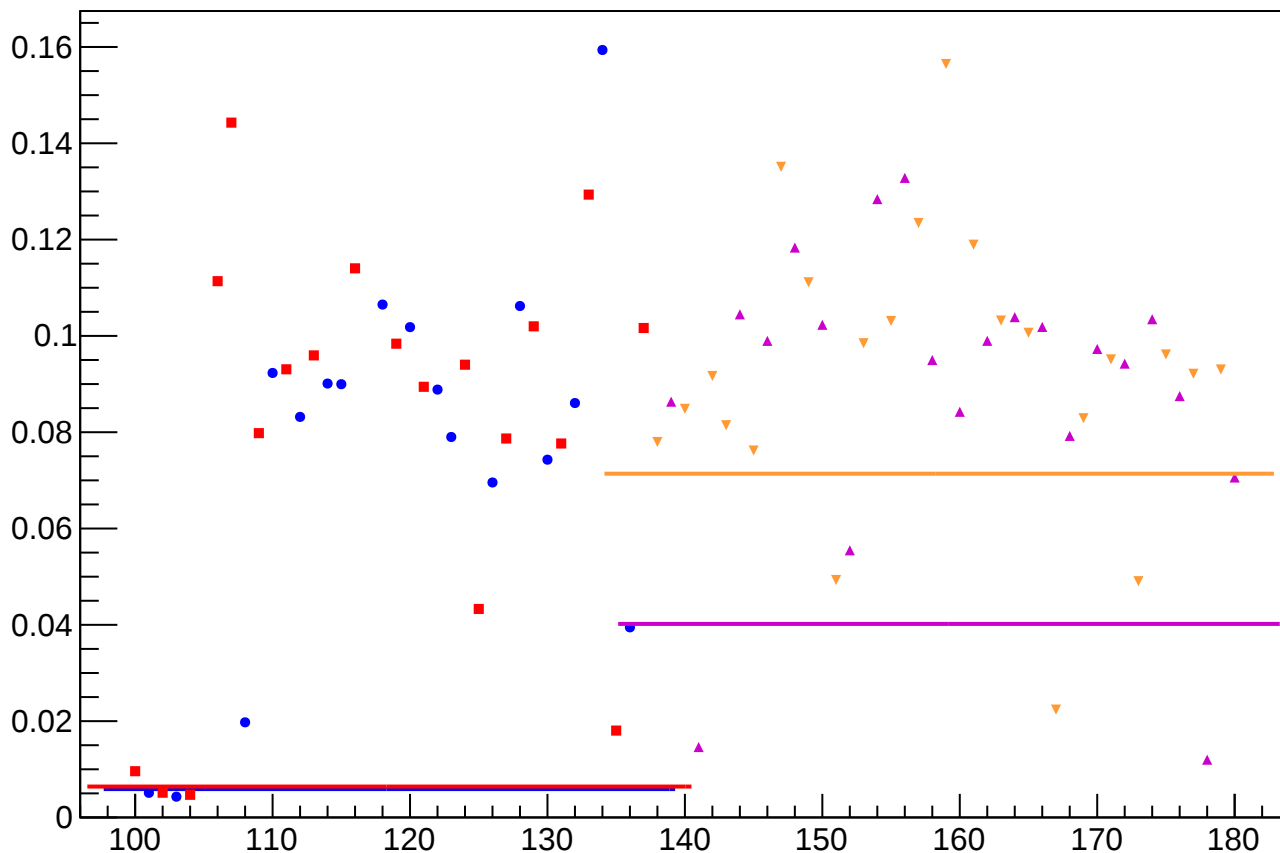
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.796+/-0.000 χ^2/NDF : 26488345551.3/37

Out: -5.810+/-0.000 χ^2/NDF : 21812345442.2/40

All: -5.802+/-0.000 χ^2/NDF : 48305275117.5/75

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.071+/-0.000 χ^2/NDF : 4999262.1/21

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.040+/-0.000 χ^2/NDF : 12408554.8/20

Left: 0.051+/-0.000 χ^2/NDF : 20253313.0/42

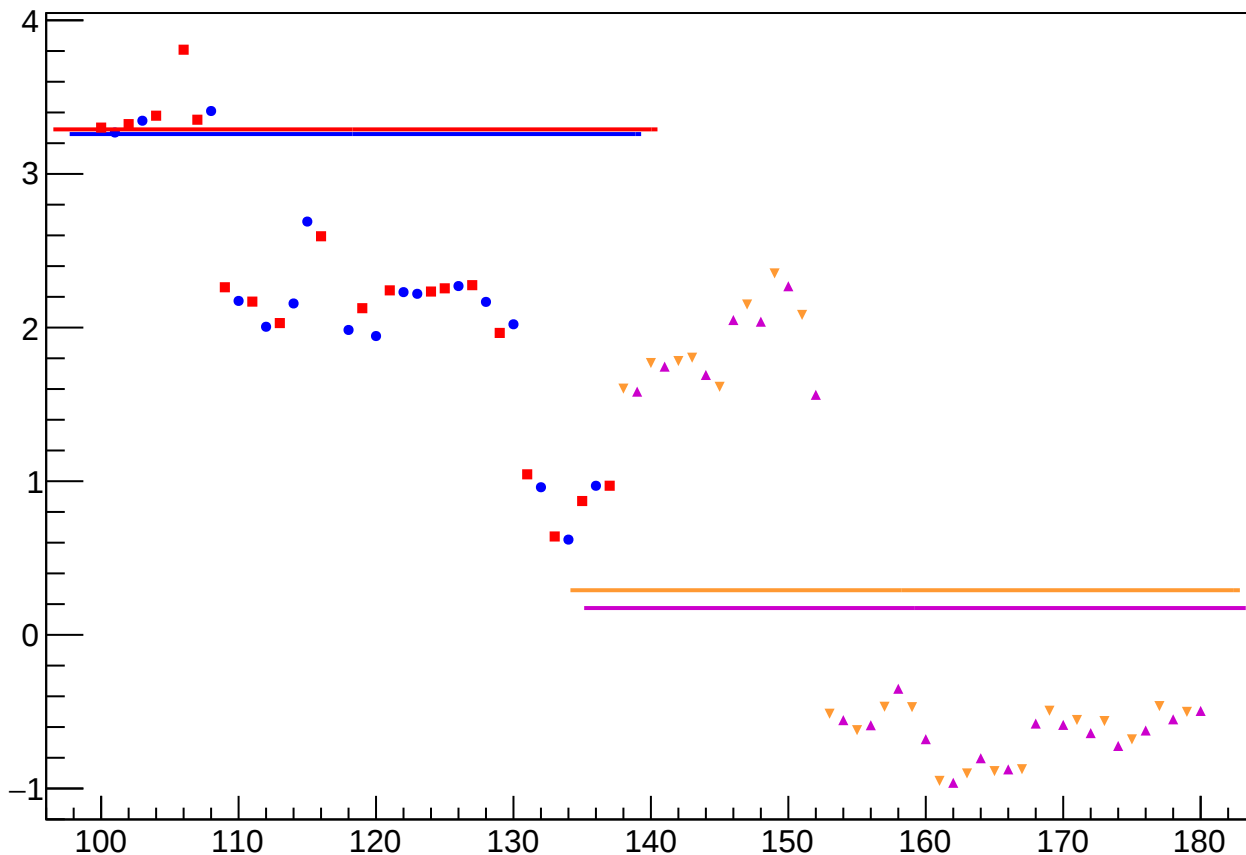
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.009+/-0.000 χ^2/NDF : 29387702.4/37

Out: 0.010+/-0.000 χ^2/NDF : 31419804.1/40

All: 0.009+/-0.000 χ^2/NDF : 60890925.0/78

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.290+/-0.000 χ^2/NDF : 3044106947.0/21

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.174+/-0.000 χ^2/NDF : 3128301212.1/20

Left: 0.225+/-0.000 χ^2/NDF : 6187080729.0/42

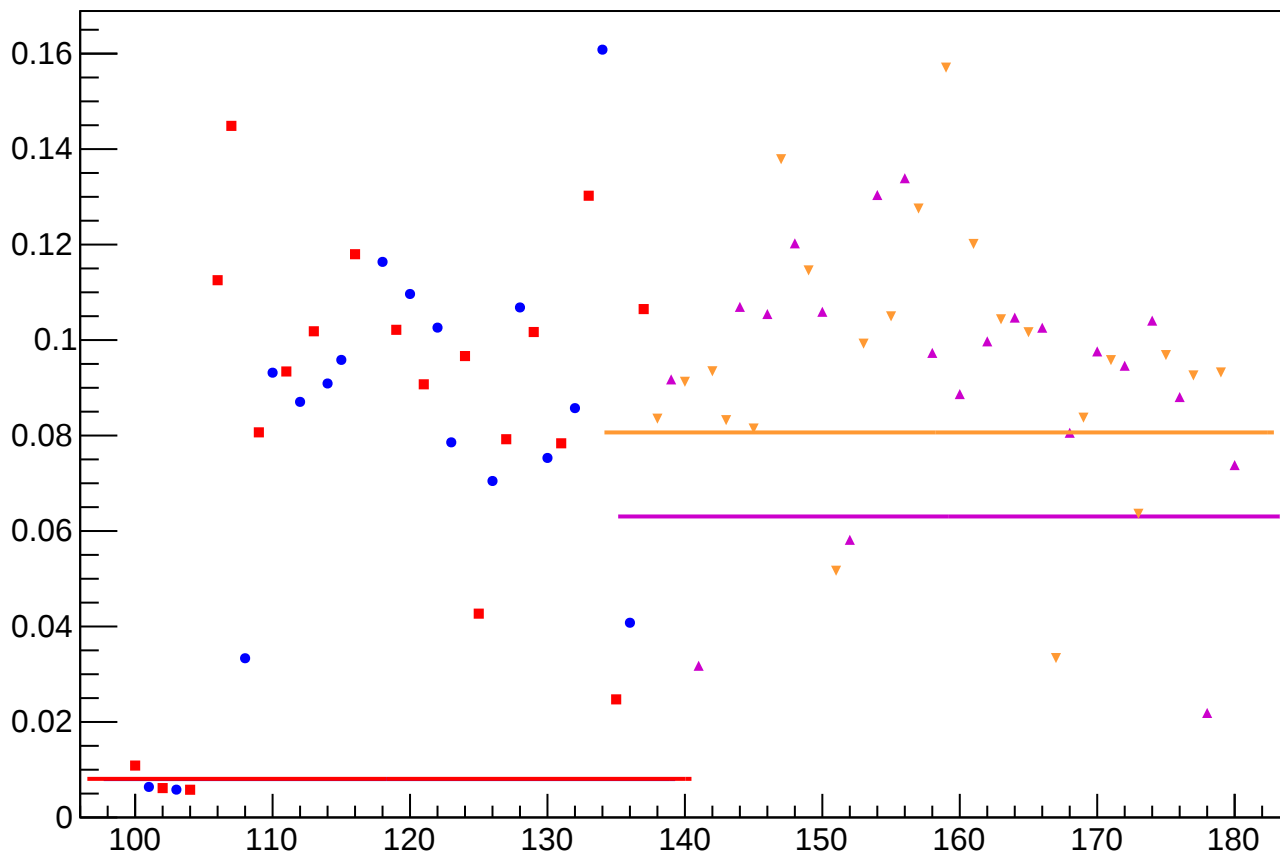
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.012+/-0.000 χ^2/NDF : 27971835169.3/37

Out: 3.086+/-0.000 χ^2/NDF : 22497049035.3/40

All: 3.048+/-0.000 χ^2/NDF : 50549569844.6/71

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.081 $\pm$ 0.000 χ^2 /NDF: 3168281.3/21

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.063 $\pm$ 0.000 χ^2 /NDF: 6624923.9/20

Left: 0.071 $\pm$ 0.000 χ^2 /NDF: 10468789.5/42

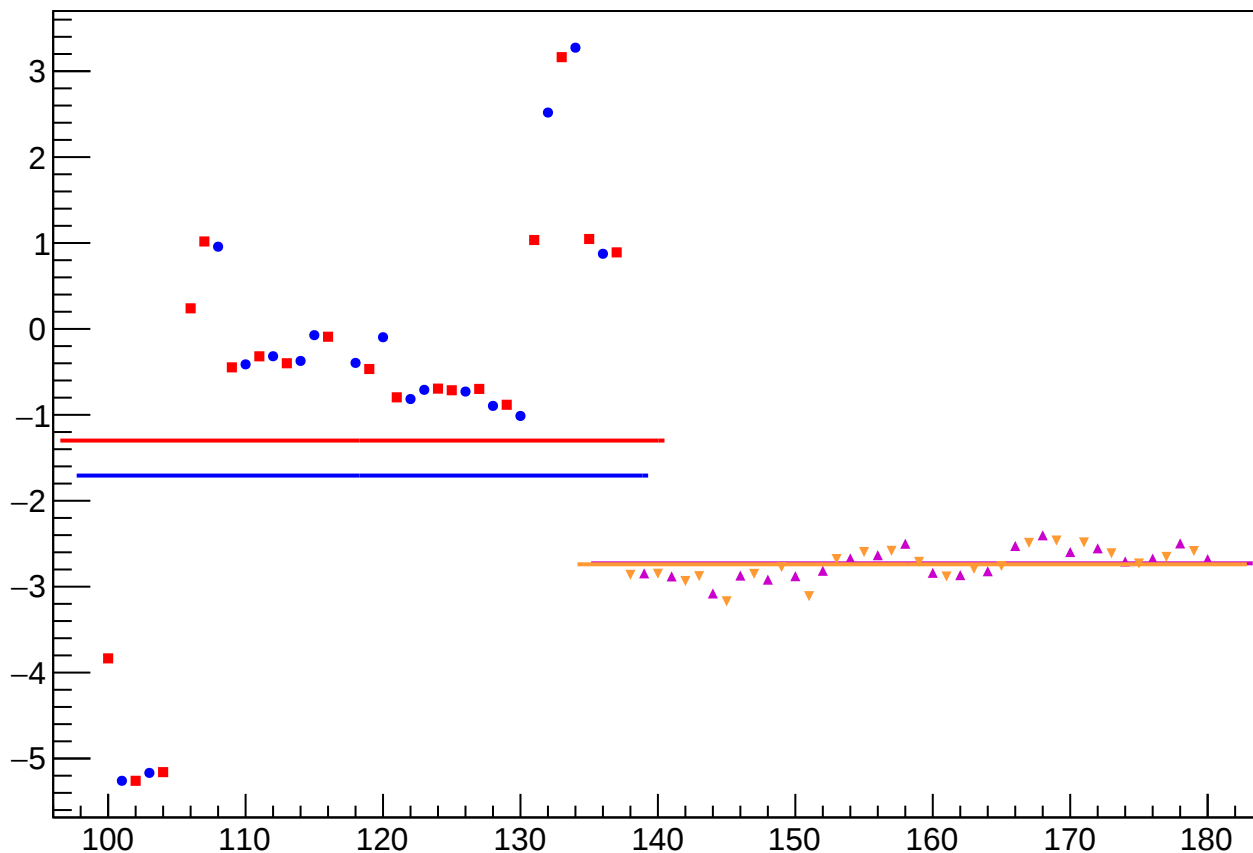
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 28306226.8/37

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 30430444.2/40

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 58746427.2/78

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.740+/-0.000 χ^2/NDF : 9075166864.6/21

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.728+/-0.000 χ^2/NDF : 7894242637.8/20

Left: -2.734+/-0.000 χ^2/NDF : 16986292168.0/42

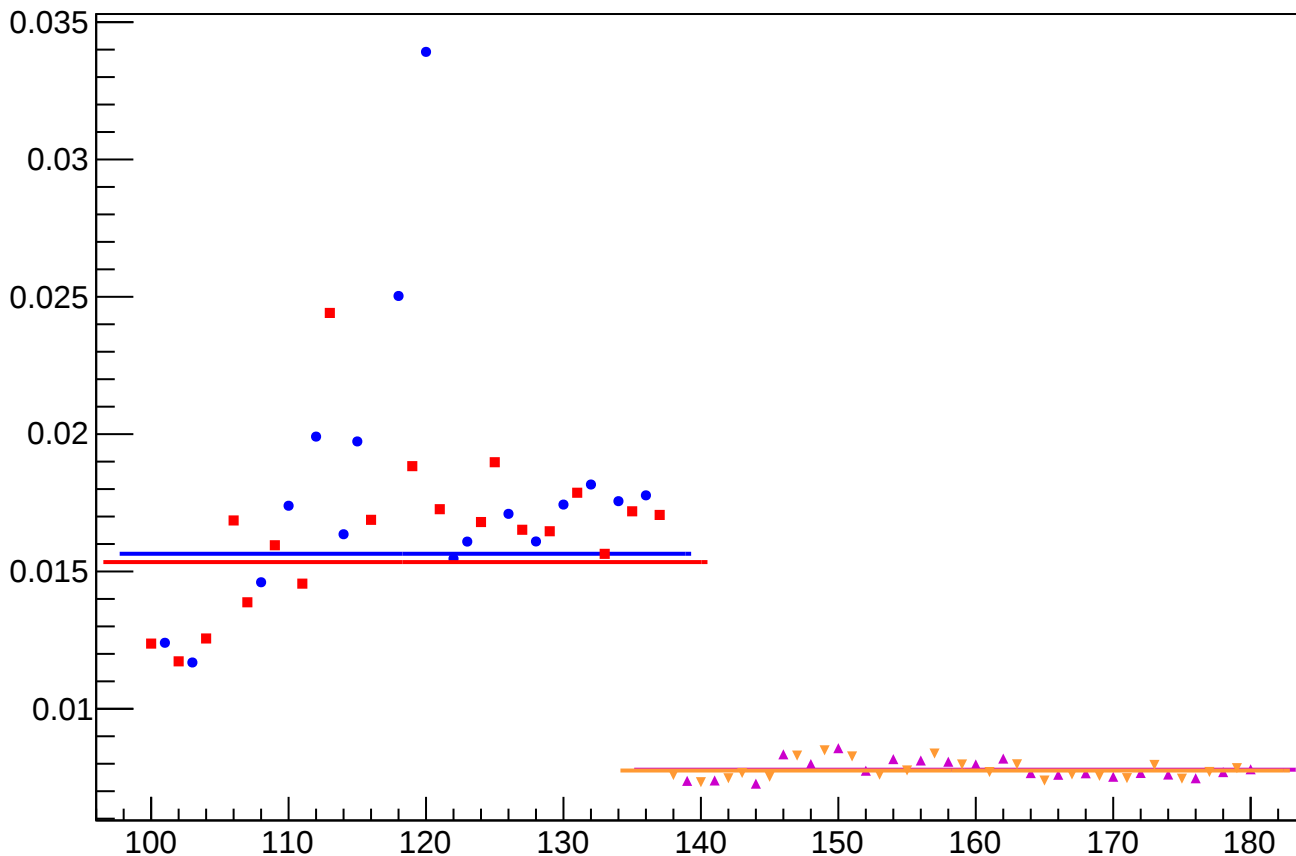
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.645+/-0.000 χ^2/NDF : 195973459486.9/37

Out: -2.609+/-0.000 χ^2/NDF : 236799693901.6/40

All: -2.627+/-0.000 χ^2/NDF : 432958806216.0

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2 /NDF: 578244.3/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:53141.4/21

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 353806.7/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:58136.0/20

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 111509.7/42

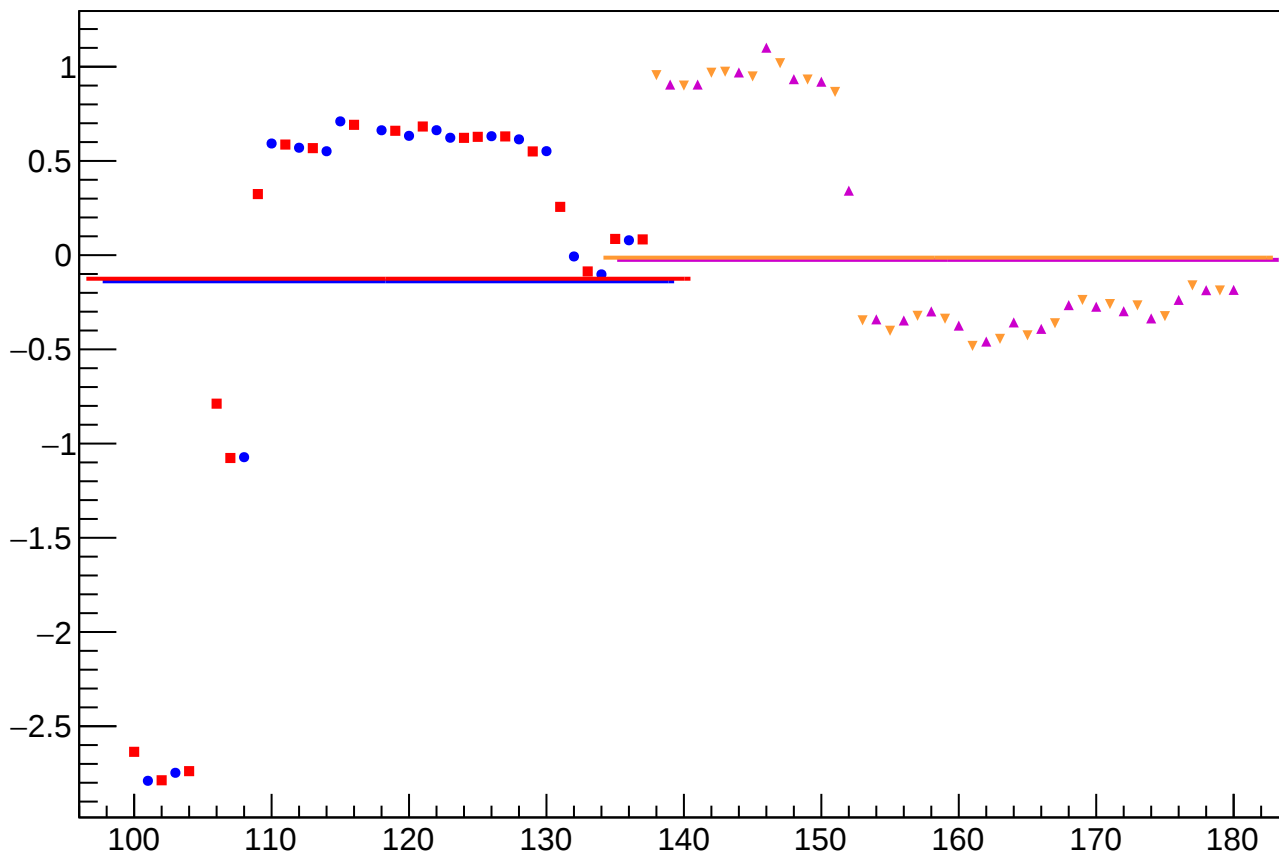
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 934296.8/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:3238077.8/37

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:3165980.6/40

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 6404157.5/78

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: -0.019+/-0.000

χ^2/NDF : 245477489094.7/42

Left Out: -0.013+/-0.000

χ^2/NDF : 132240030520.9/21

Right: -0.132+/-0.000

χ^2/NDF : 1476596319761.2/3

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

In: -0.086+/-0.000

χ^2/NDF : 831321488313.6/37

Out: -0.076+/-0.000

χ^2/NDF : 896816115129.8/40

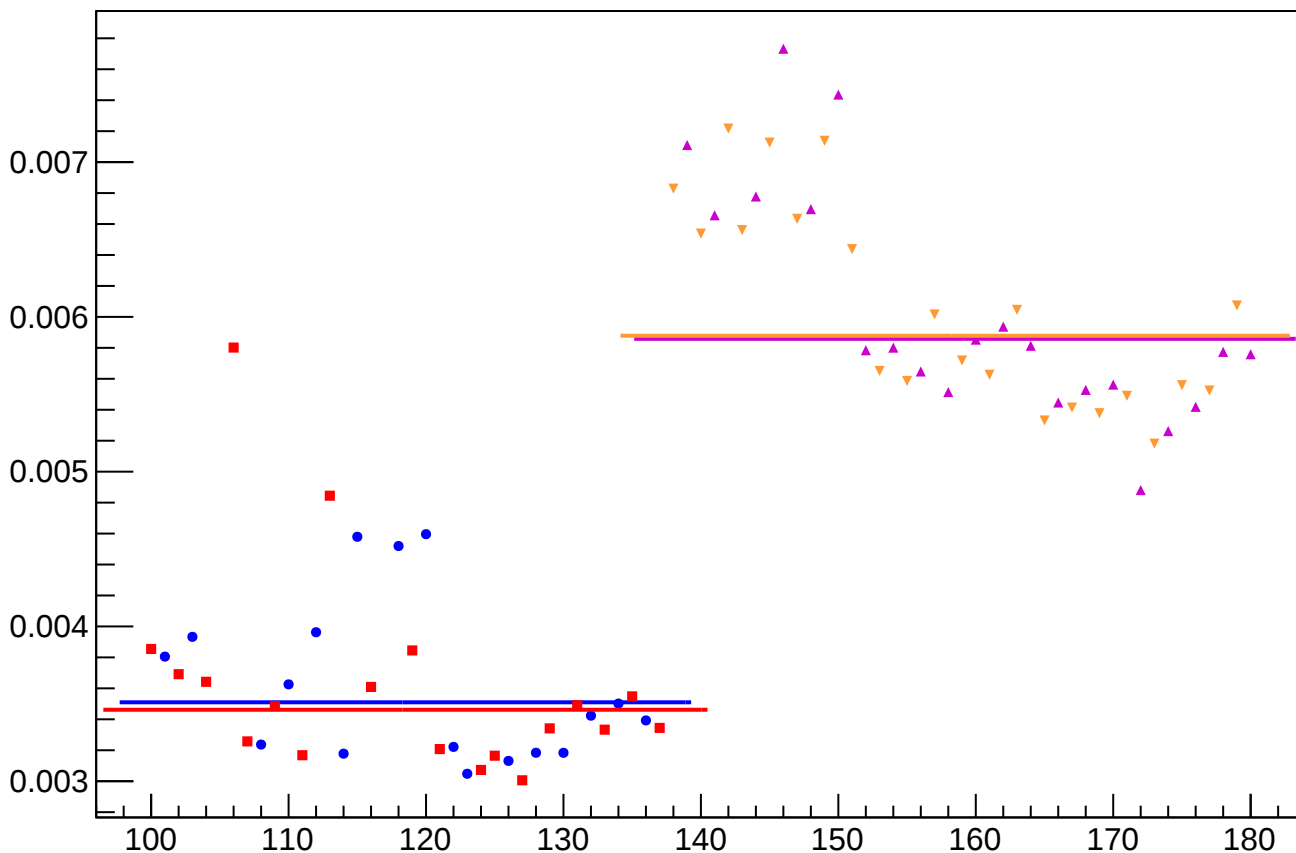
Left In: -0.025+/-0.000

χ^2/NDF : 113207608251.9/20

All: -0.081+/-0.000

χ^2/NDF : 1728188175523

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 :282994.8/21

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :363368.1/20

Left: 0.006+/-0.000 χ^2/NDF : 646538.5/42

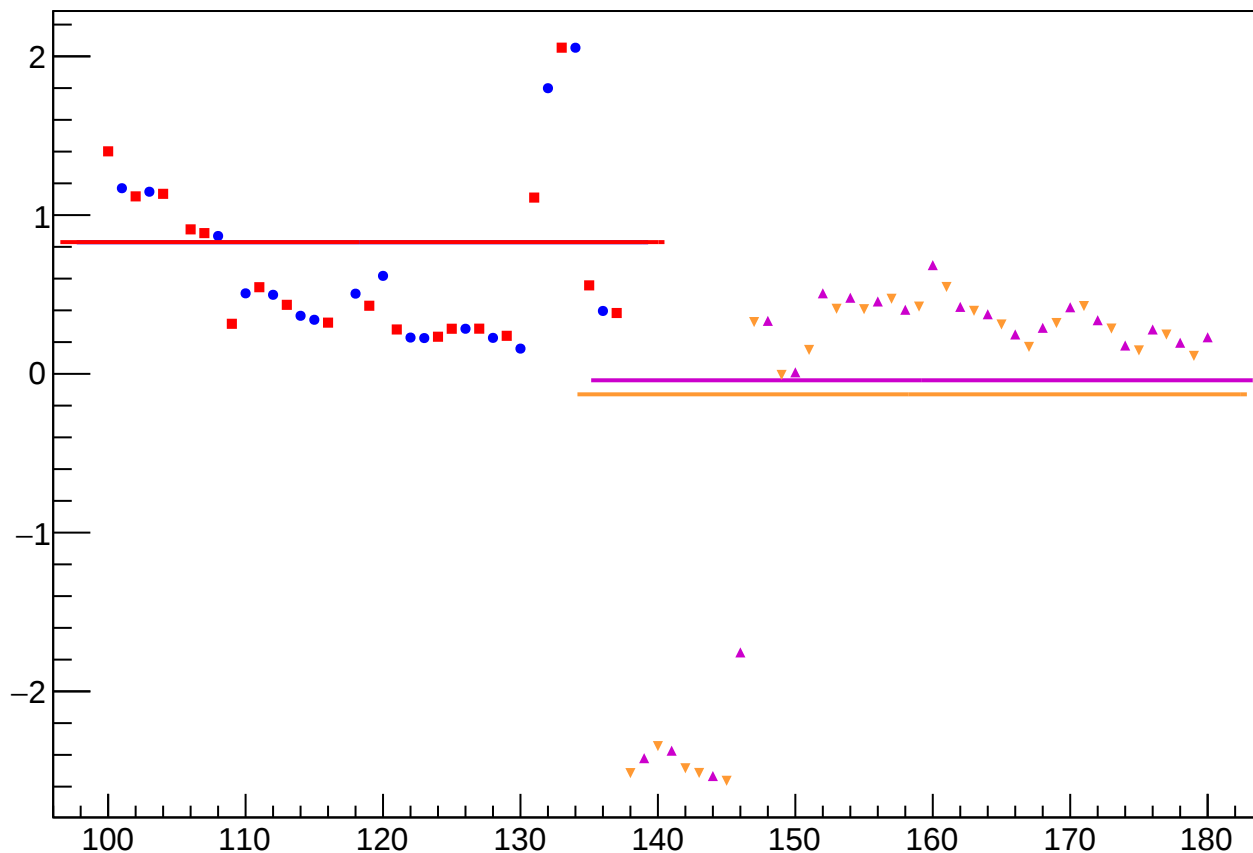
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.005+/-0.000 χ^2/NDF :3145265.9/37

Out: 0.005+/-0.000 χ^2/NDF :3375026.2/40

All: 0.005+/-0.000 χ^2/NDF : 6525235.7/78

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000

χ^2/NDF : 31718573821.2/16

Left: -0.085+/-0.000

χ^2/NDF : 898867994984.8/42

Right: 0.829+/-0.000

χ^2/NDF : 65054312510.0/35

Left Out: -0.129+/-0.000

χ^2/NDF : 483641916353.1/21

In: 0.159+/-0.000

χ^2/NDF : 526026564335.7/37

Right Out: 0.830+/-0.000

χ^2/NDF : 33335665437.8/18

Out: 0.106+/-0.000

χ^2/NDF : 622374061903.7/40

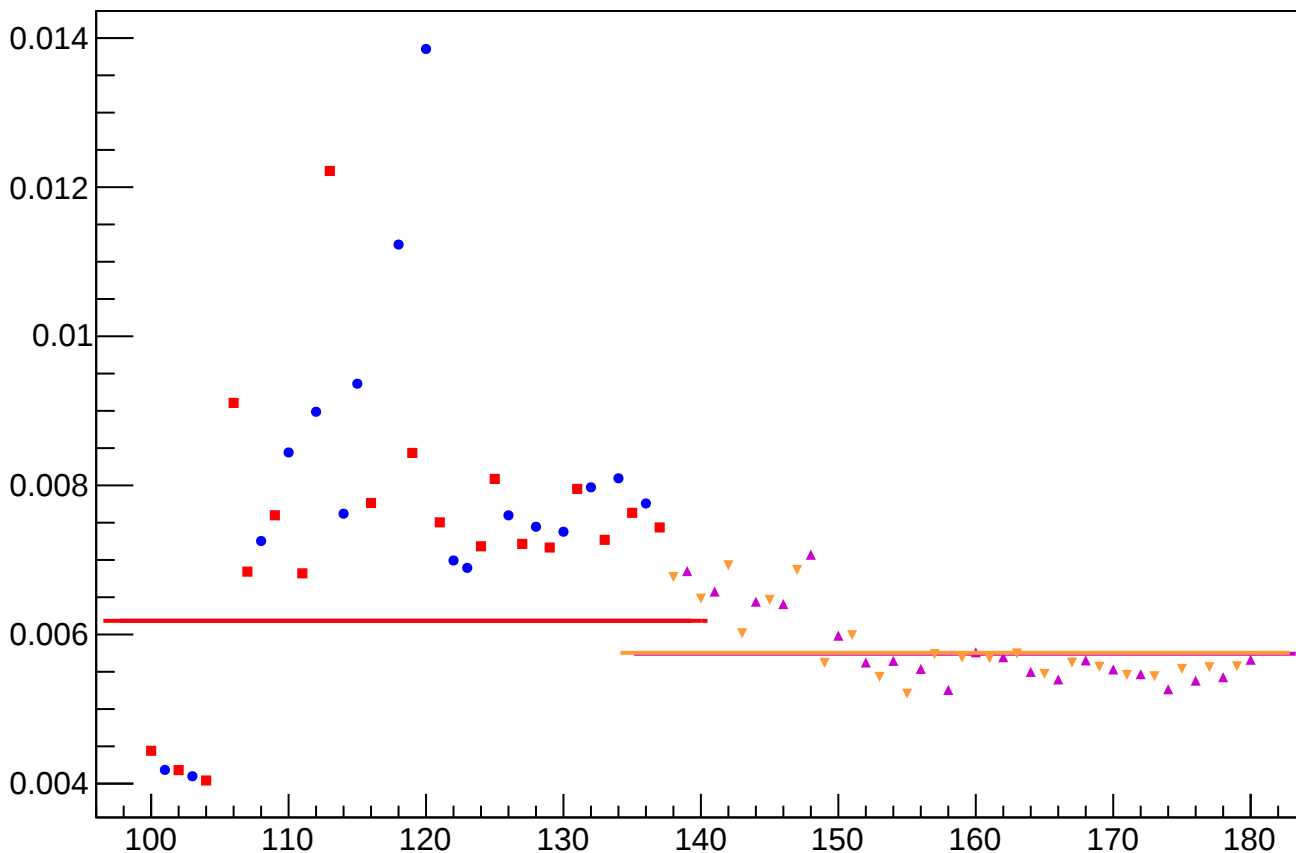
Left In: -0.041+/-0.000

χ^2/NDF : 413401664651.7/20

All: 0.132+/-0.000

χ^2/NDF : 1149264350236.0

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 : 172932.3/21

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF : 201342.5/20

Left: 0.006+/-0.000 χ^2/NDF : 374348.7/42

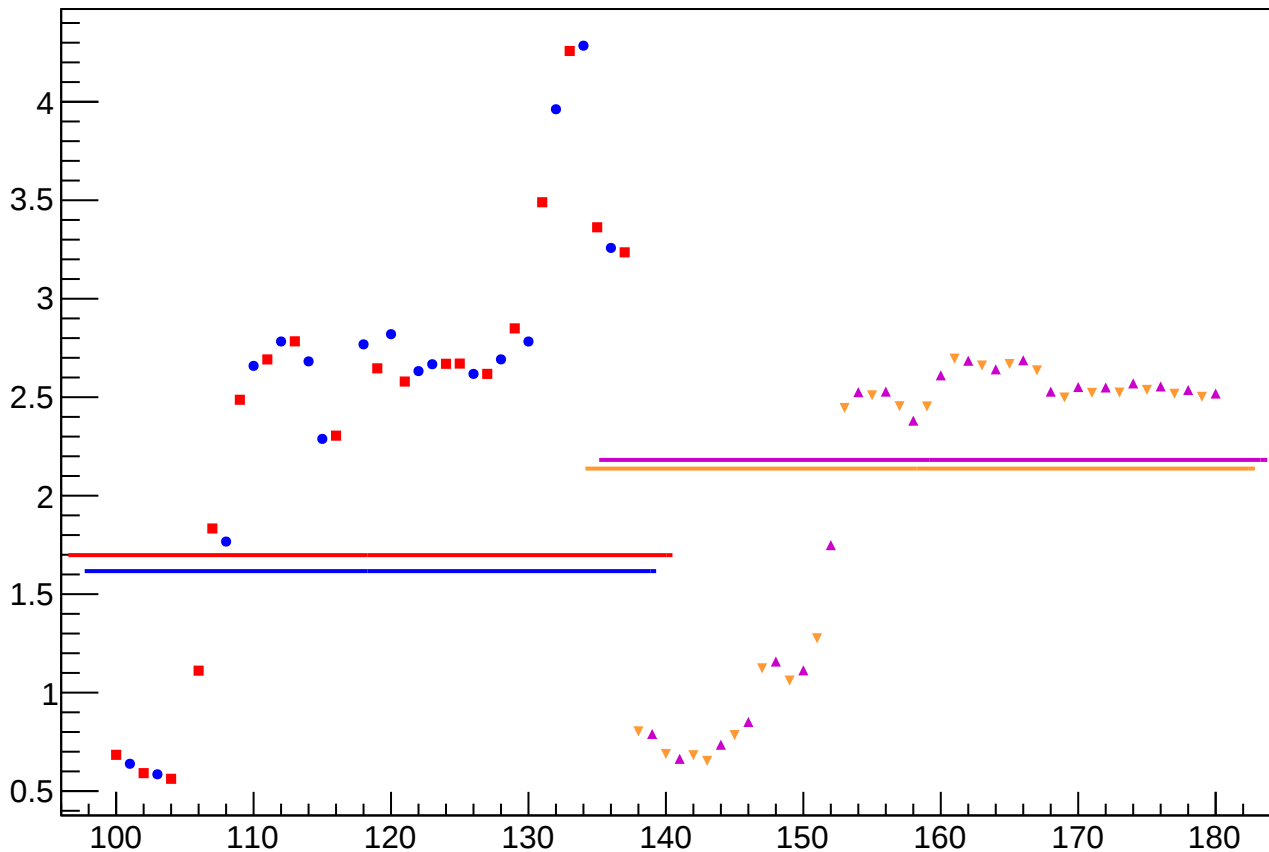
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1472266.4/37

Out: 0.006+/-0.000 χ^2/NDF : 1241967.2/40

All: 0.006+/-0.000 χ^2/NDF : 2714390.7/78

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.138+/-0.000 χ^2/NDF : 281318261216.3/21

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.182+/-0.000 χ^2/NDF : 249918354382.8/20

Left: 2.160+/-0.000 χ^2/NDF : 531760846140.1/42

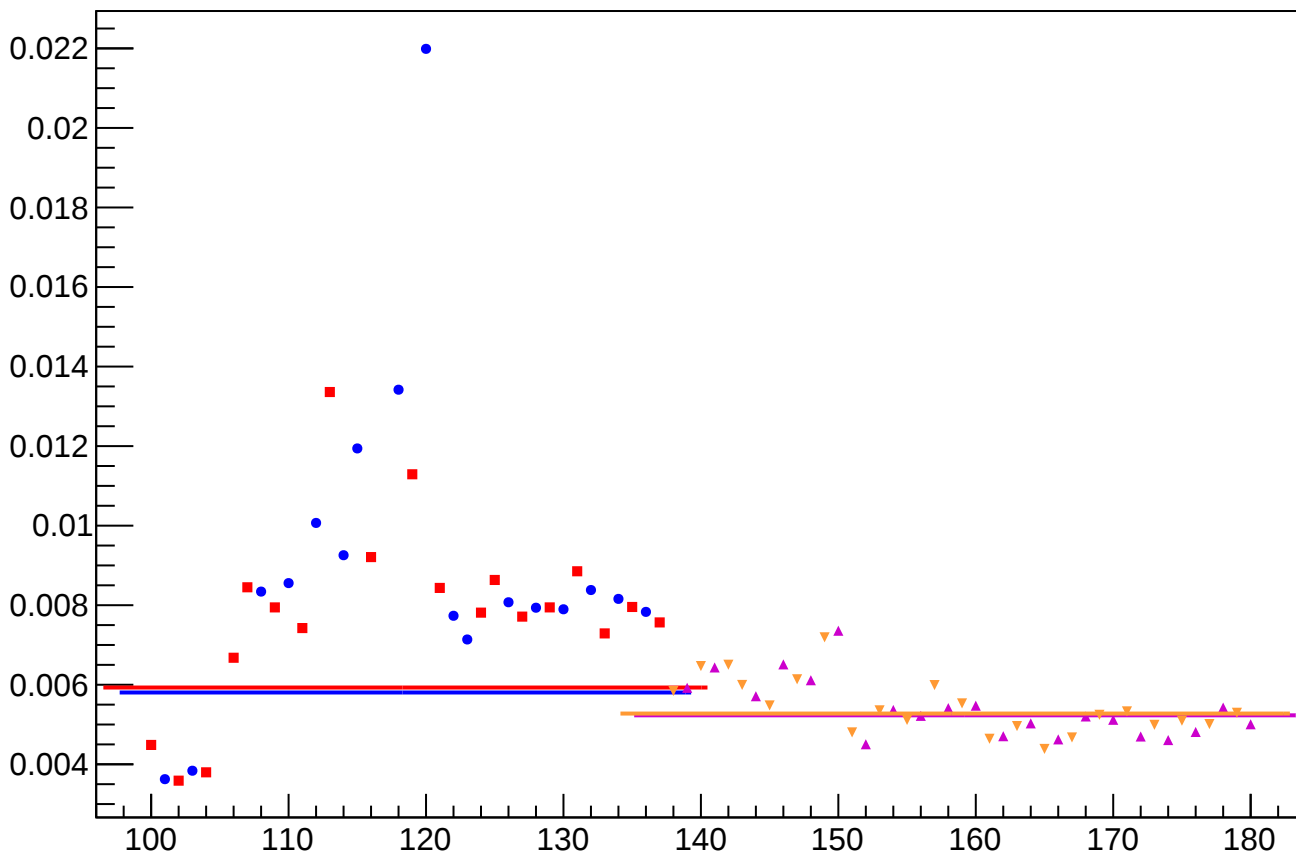
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 2.064+/-0.000 χ^2/NDF : 488944437732.0/37

Out: 2.040+/-0.000 χ^2/NDF : 531634812743.4/40

All: 2.052+/-0.000 χ^2/NDF : 1020768714705.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF :374523.9/21

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF :421671.6/20

Left: 0.005+/-0.000 χ^2/NDF : 797250.6/42

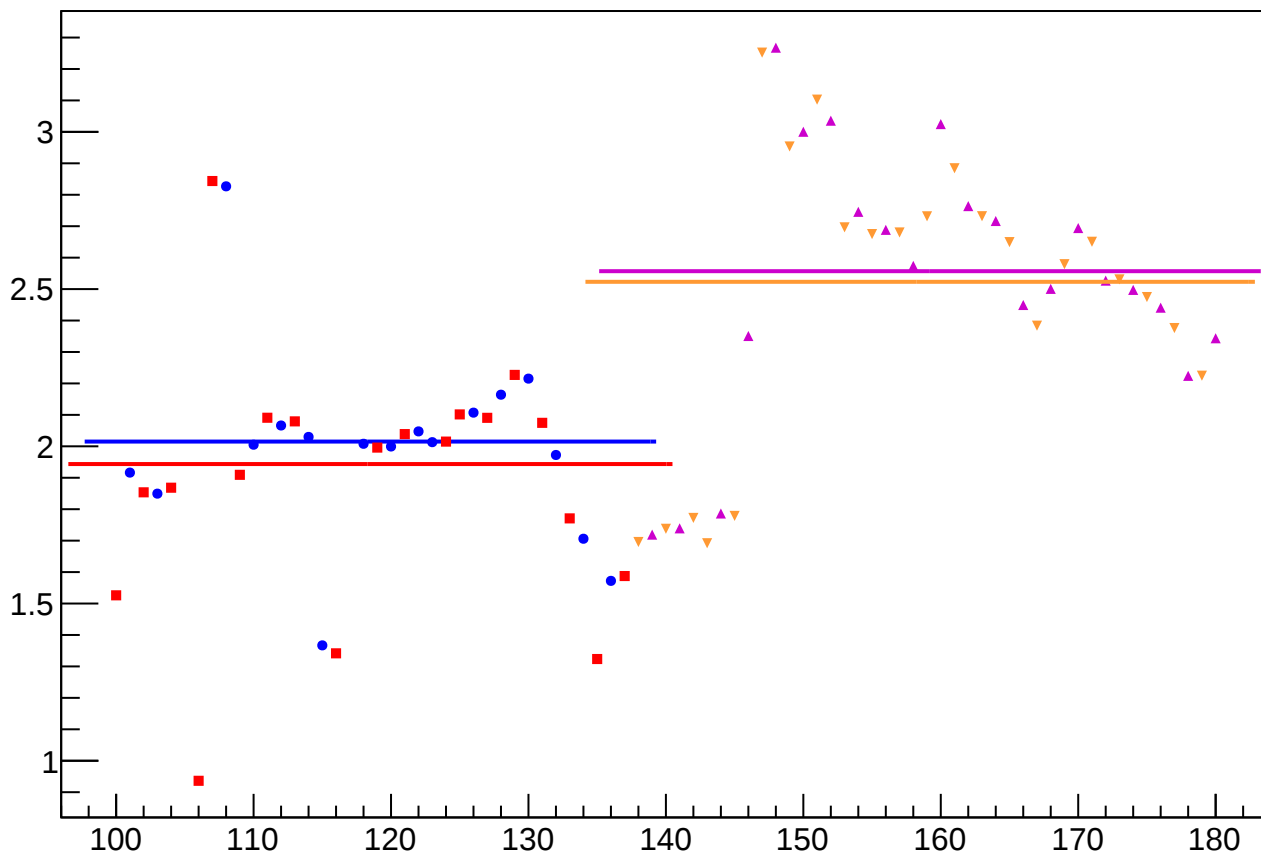
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF :2414324.3/37

Out: 0.005+/-0.000 χ^2/NDF :2161727.9/40

All: 0.005+/-0.000 χ^2/NDF : 4579352.4/78

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015 $\pm$ 0.000

χ^2/NDF : 12228403202.6/16

Left: 2.540 $\pm$ 0.000

χ^2/NDF : 95971292097.0/42

Left Out: 2.523 $\pm$ 0.000

χ^2/NDF : 50883040686.1/21

Right: 1.977 $\pm$ 0.000

χ^2/NDF : 34023853436.2/35

Right Out: 1.944 $\pm$ 0.000

χ^2/NDF : 21427099579.0/18

In: 2.386 $\pm$ 0.000

χ^2/NDF : 84674631776.1/37

Out: 2.326 $\pm$ 0.000

χ^2/NDF : 106046463072.7/40

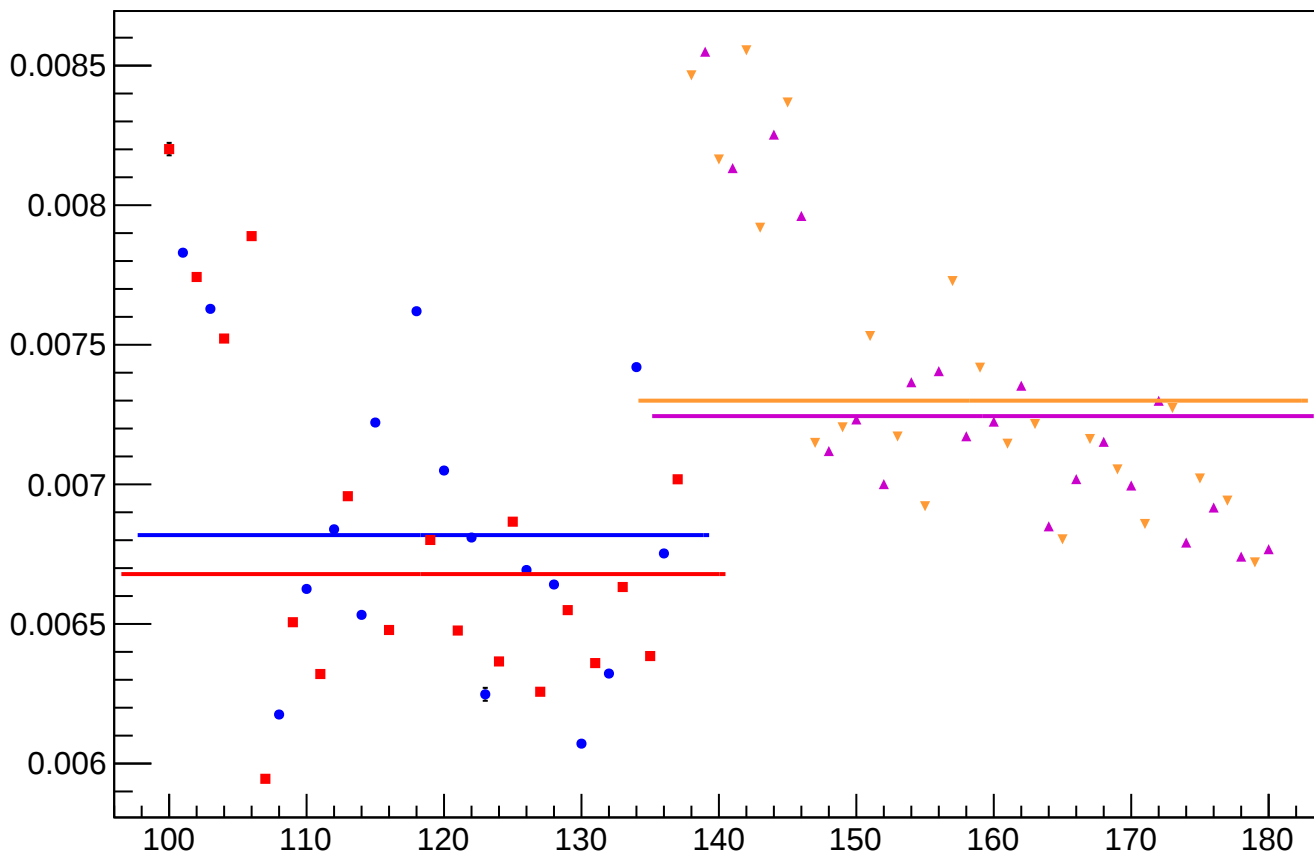
Left In: 2.557 $\pm$ 0.000

χ^2/NDF : 44919075163.0/20

All: 2.356 $\pm$ 0.000

χ^2/NDF : 191521934146.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.007+/-0.000 χ^2/NDF :136878.4/21

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :124684.3/20

Left: 0.007+/-0.000 χ^2/NDF : 262471.7/42

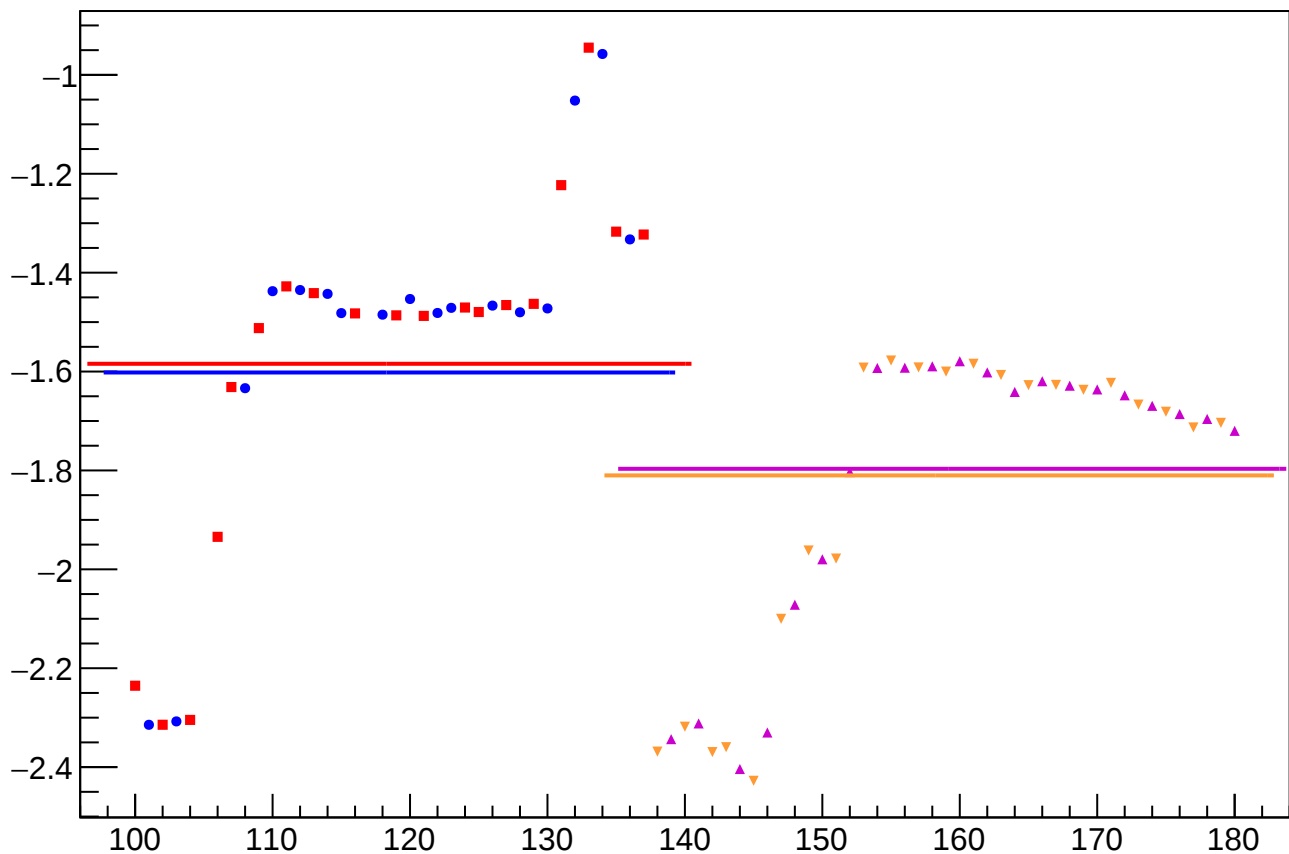
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :234562.2/37

Out: 0.007+/-0.000 χ^2/NDF :290104.7/40

All: 0.007+/-0.000 χ^2/NDF : 524874.1/78

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.810+/-0.000 χ^2/NDF : 177395794295.1/21

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.797+/-0.000 χ^2/NDF : 158095070334.8/20

Left: -1.803+/-0.000 χ^2/NDF : 335679361781.2/42

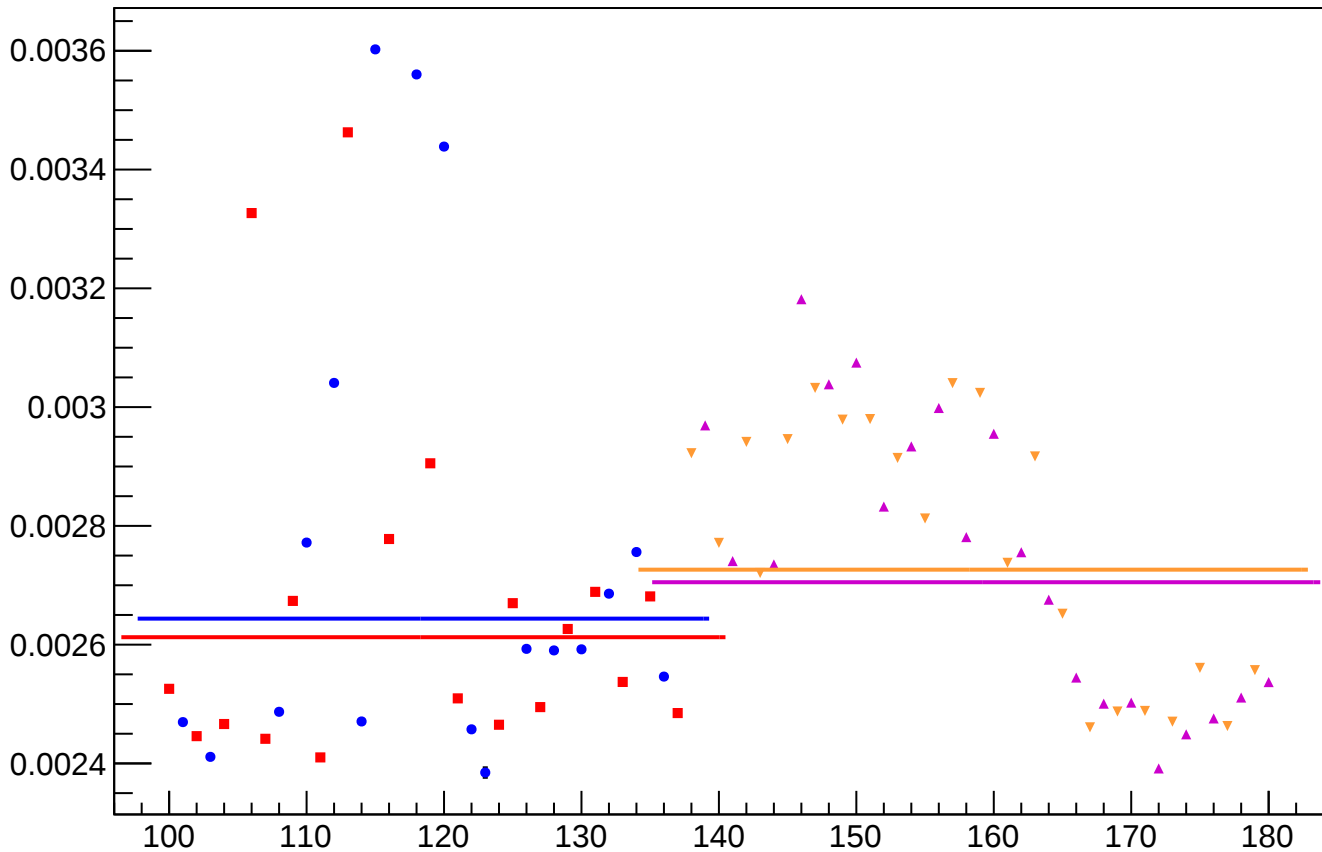
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.739+/-0.000 χ^2/NDF : 322293360662.3/37

Out: -1.739+/-0.000 χ^2/NDF : 355060581023.2/40

All: -1.739+/-0.000 χ^2/NDF : 677354095105.4

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 :192809.2/21

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :218989.3/20

Left: 0.003+/-0.000 χ^2/NDF : 412748.5/42

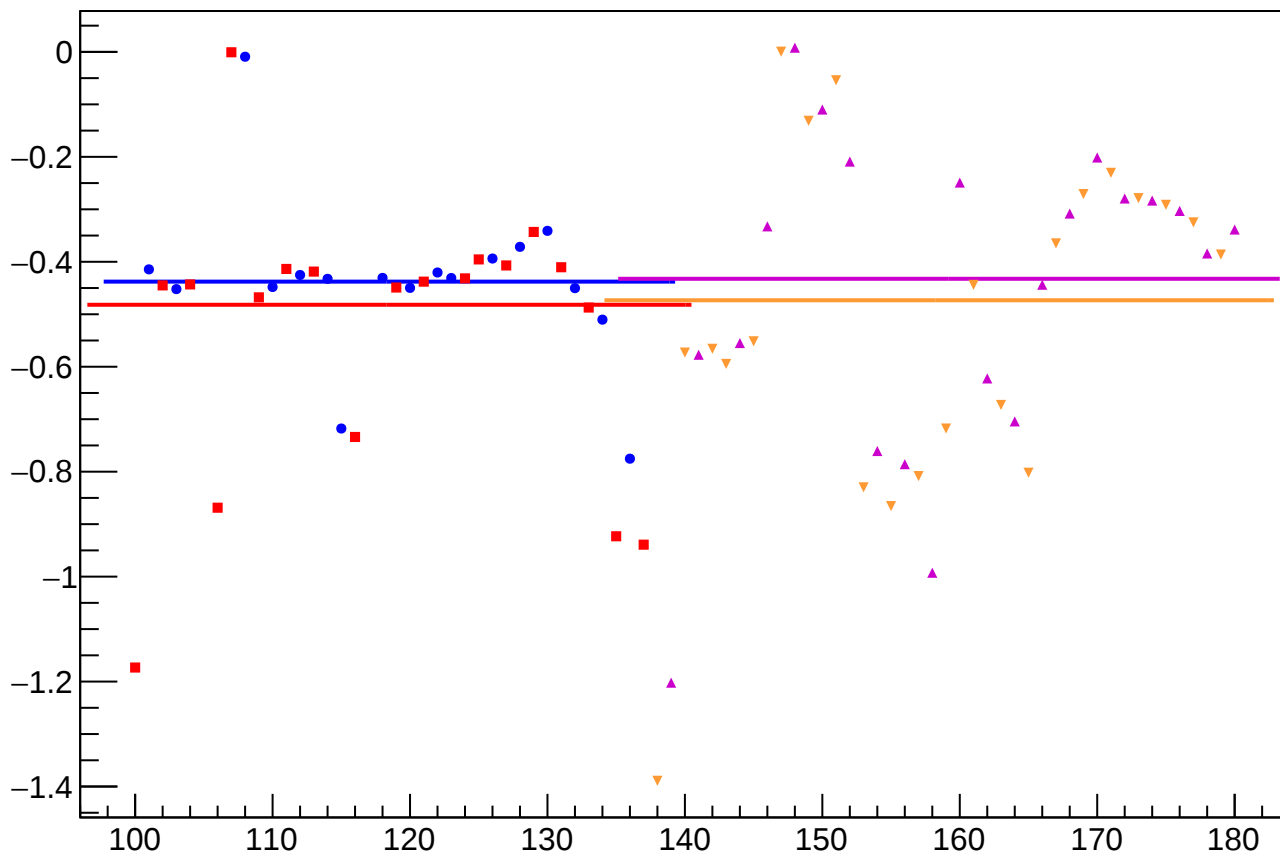
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :375124.9/37

Out: 0.003+/-0.000 χ^2/NDF :315411.2/40

All: 0.003+/-0.000 χ^2/NDF : 690570.6/78

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 ± 0.000 $\chi^2/\text{NDF}: 1462454117.6/16$

Left Out: -0.473 ± 0.000 $\chi^2/\text{NDF}: 9654388038.9/21$

Right Out: -0.482 ± 0.000 $\chi^2/\text{NDF}: 2694625740.7/18$

Left In: -0.432 ± 0.000 $\chi^2/\text{NDF}: 8347605597.1/20$

Left: -0.453 ± 0.000 $\chi^2/\text{NDF}: 18090985766.4/42$

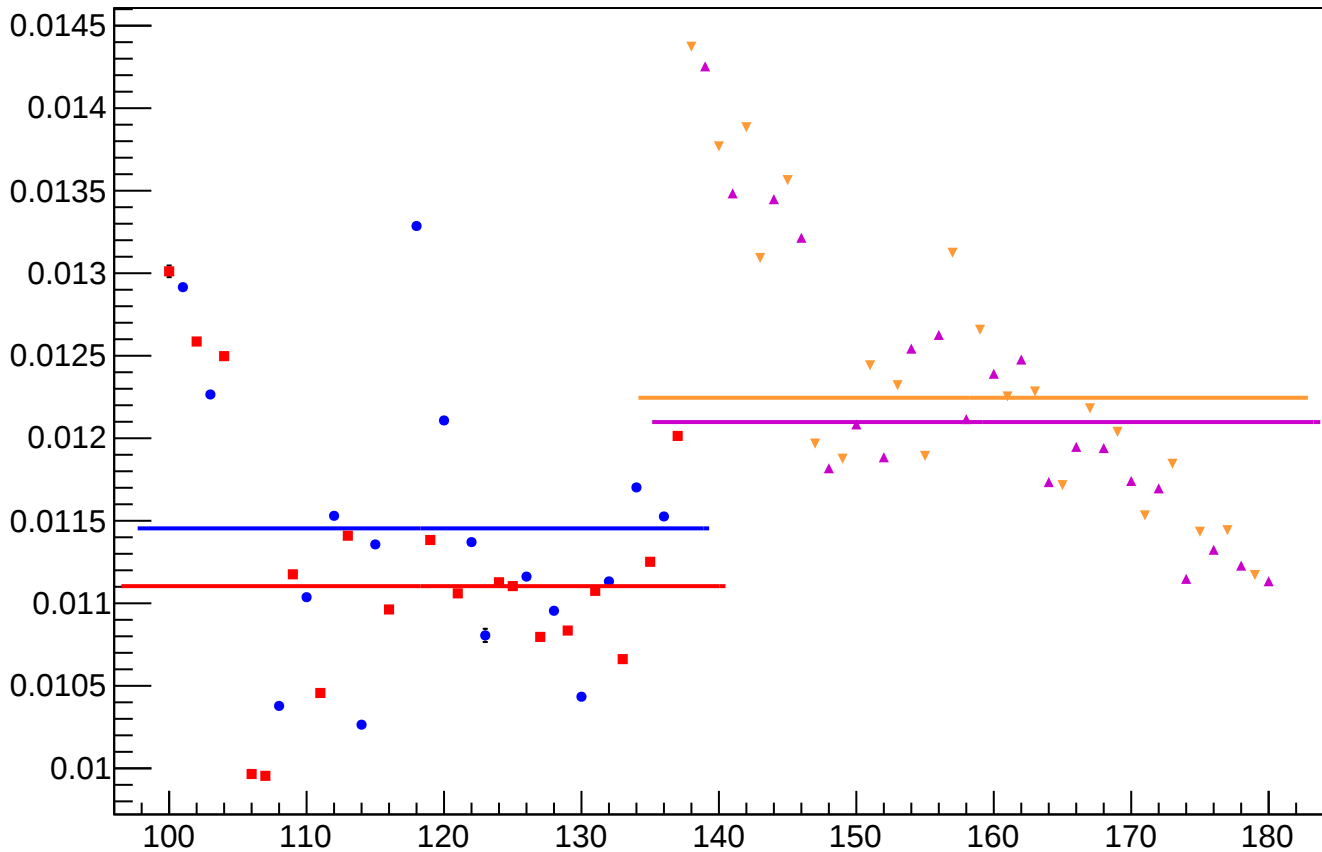
Right: -0.461 ± 0.000 $\chi^2/\text{NDF}: 4208237576.2/35$

In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 9811042167.4/37$

Out: -0.476 ± 0.000 $\chi^2/\text{NDF}: 12351711560.4/40$

All: -0.456 ± 0.000 $\chi^2/\text{NDF}: 22304392279.8/79$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.012+/-0.000 χ^2/NDF :129783.0/21

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF :126275.7/20

Left: 0.012+/-0.000 χ^2/NDF : 258361.4/42

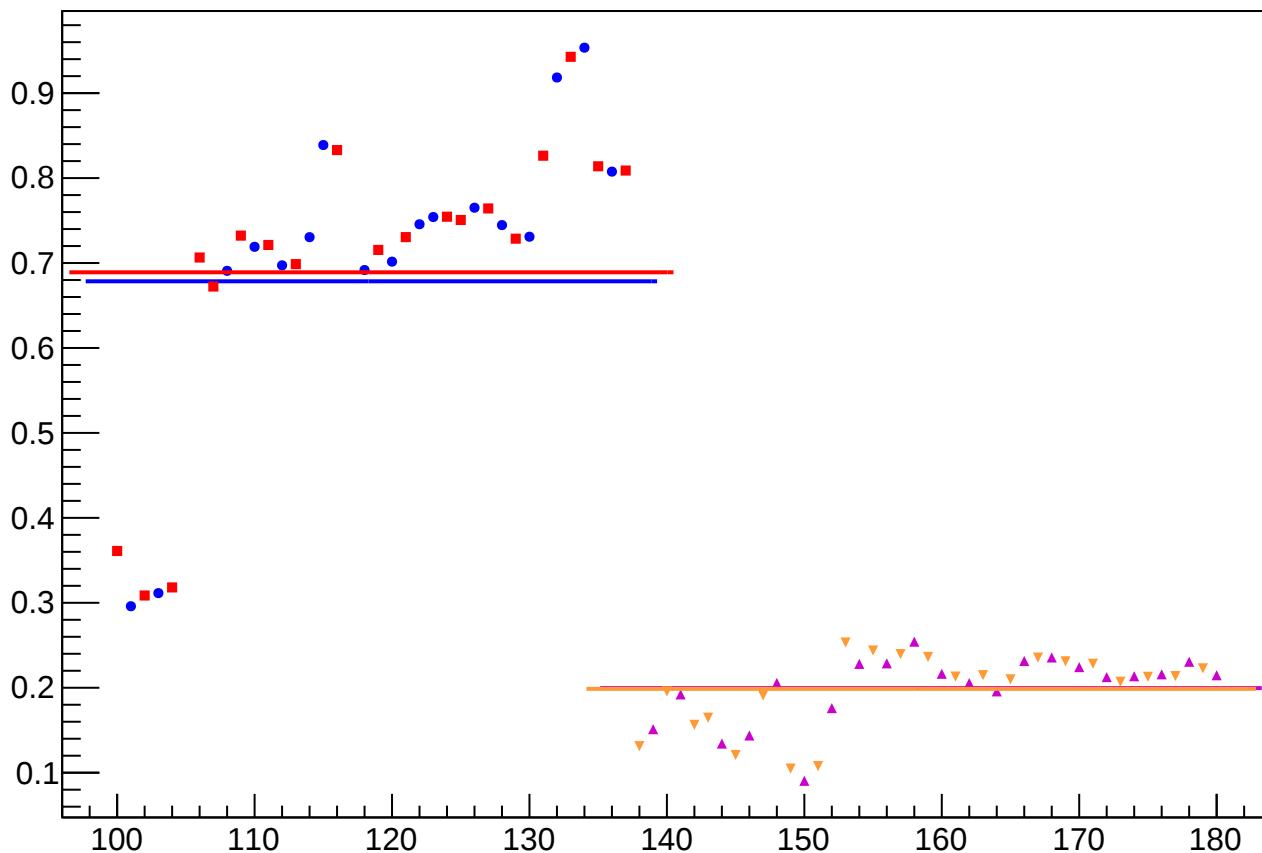
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :218970.3/37

Out: 0.012+/-0.000 χ^2/NDF :281478.9/40

All: 0.012+/-0.000 χ^2/NDF : 500789.3/78

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.199 $\pm$ 0.000 χ^2/NDF : 6766762594.7/21

Right Out: 0.689 $\pm$ 0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.200 $\pm$ 0.000 χ^2/NDF : 5562159440.8/20

Left: 0.199 $\pm$ 0.000 χ^2/NDF : 12330343145.7/42

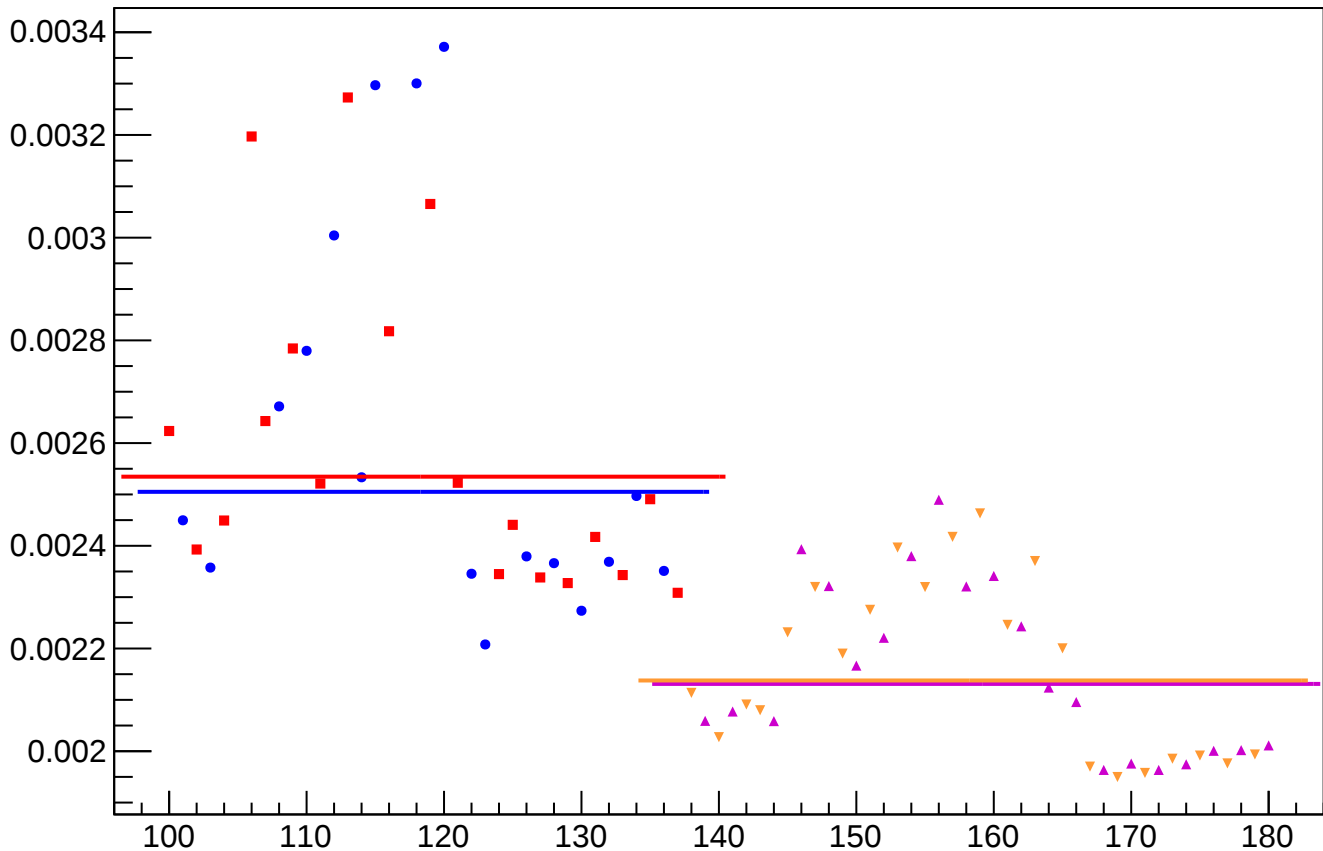
Right: 0.684 $\pm$ 0.000 χ^2/NDF : 73922739006.0/35

In: 0.306 $\pm$ 0.000 χ^2/NDF : 225052979197.2/37

Out: 0.310 $\pm$ 0.000 χ^2/NDF : 236270048422.0/40

All: 0.308 $\pm$ 0.000 χ^2/NDF : 461347882350.6

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 :196113.8/21

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :176346.4/20

Left: 0.002+/-0.000 χ^2/NDF : 372619.5/42

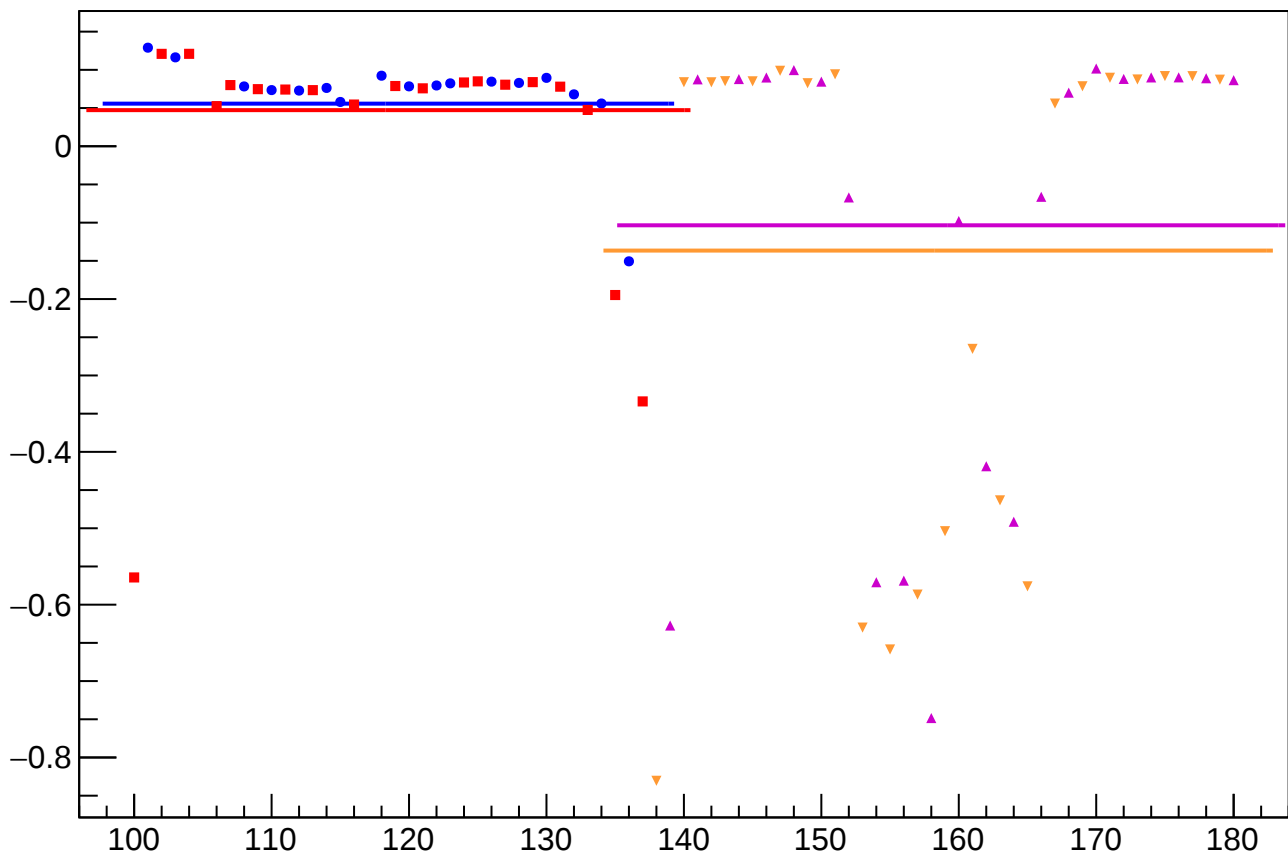
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :572705.0/37

Out: 0.002+/-0.000 χ^2/NDF :582060.6/40

All: 0.002+/-0.000 χ^2/NDF : 1155551.8/78

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000

χ^2 /NDF: 423003688.1/16

Left: -0.120 $\pm$ 0.000

χ^2 /NDF: 23840151210.7/42

Left Out: -0.137 $\pm$ 0.000

χ^2 /NDF: 12981241745.3/21

Right: 0.051 $\pm$ 0.000

χ^2 /NDF: 1245197626.4/35

Right Out: 0.047 $\pm$ 0.000

χ^2 /NDF: 819588537.2/18

In: -0.049 $\pm$ 0.000

χ^2 /NDF: 12338910333.3/37

Out: -0.068 $\pm$ 0.000

χ^2 /NDF: 15436655078.1/40

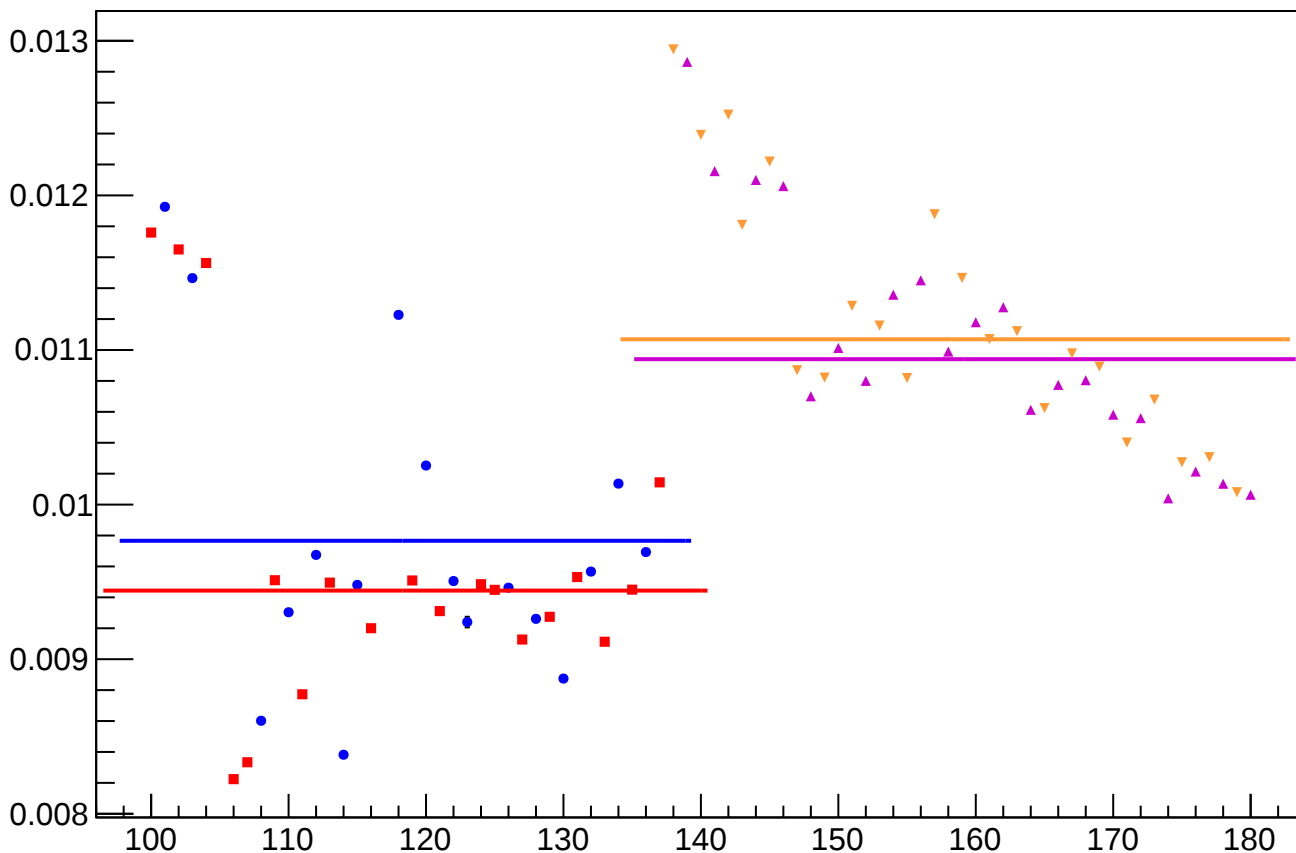
Left In: -0.103 $\pm$ 0.000

χ^2 /NDF: 10787736363.9/20

All: -0.059 $\pm$ 0.000

χ^2 /NDF: 27810184431.8/79

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 :128454.1/21

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF :128450.5/20

Left: 0.011+/-0.000 χ^2/NDF : 259056.7/42

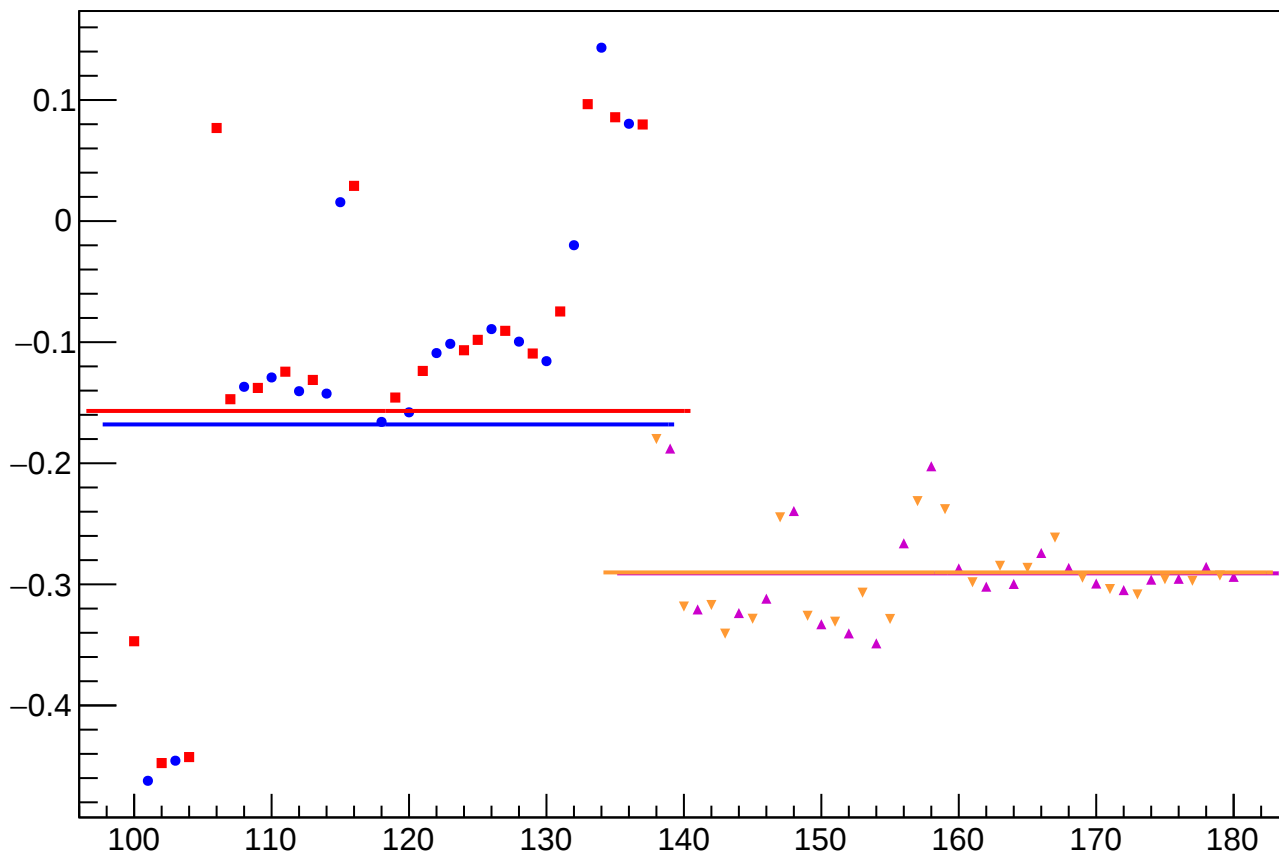
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :367928.4/37

Out: 0.010+/-0.000 χ^2/NDF :495062.3/40

All: 0.011+/-0.000 χ^2/NDF : 864280.6/78

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.290+/-0.000 χ^2/NDF : 2857329916.3/21

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.291+/-0.000 χ^2/NDF : 3123970607.7/20

Left: -0.291+/-0.000 χ^2/NDF : 5981925502.0/42

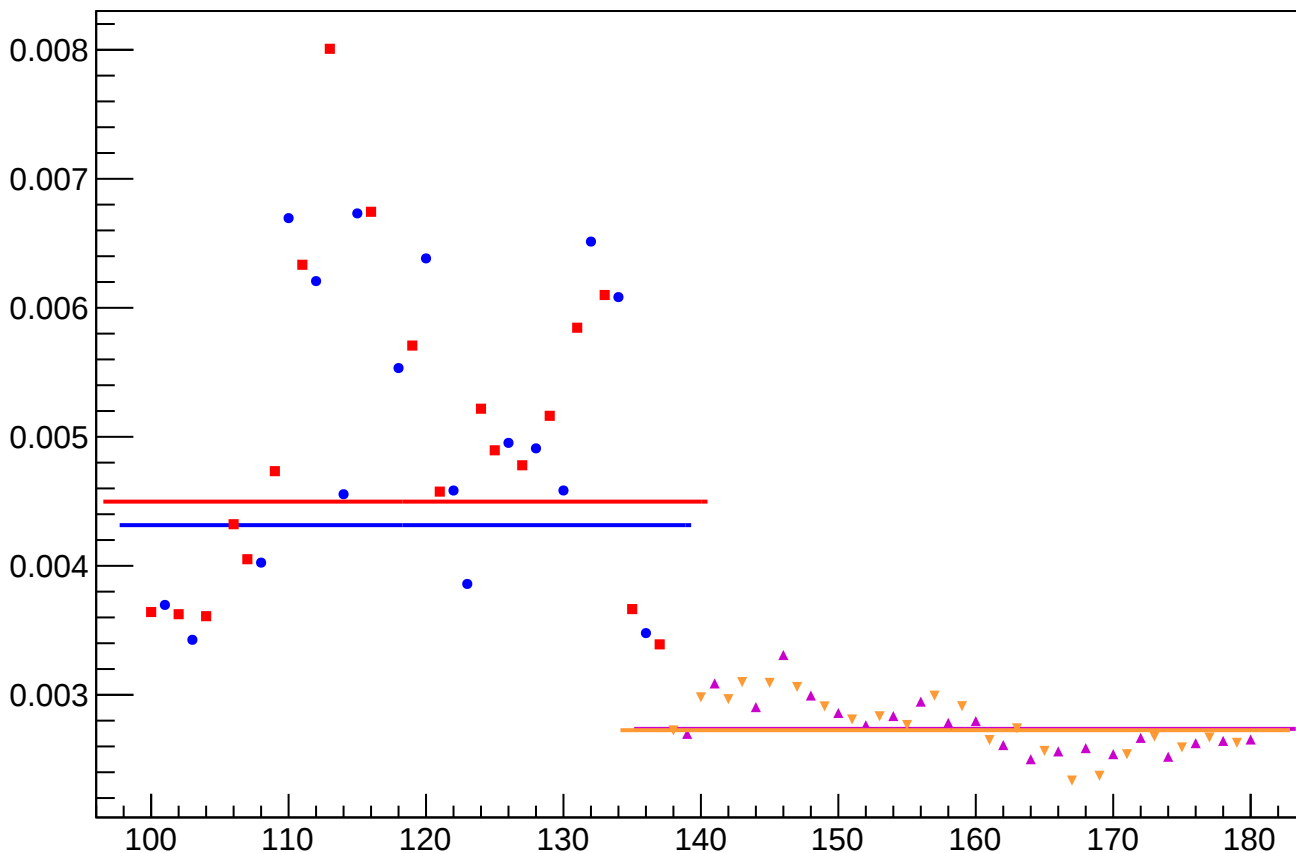
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.275+/-0.000 χ^2/NDF : 19559805882.5/37

Out: -0.273+/-0.000 χ^2/NDF : 18663932428.9/40

All: -0.274+/-0.000 χ^2/NDF : 38226731628.5/79

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF :198810.9/21

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 649708.4/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF :144703.8/20

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 343734.7/42

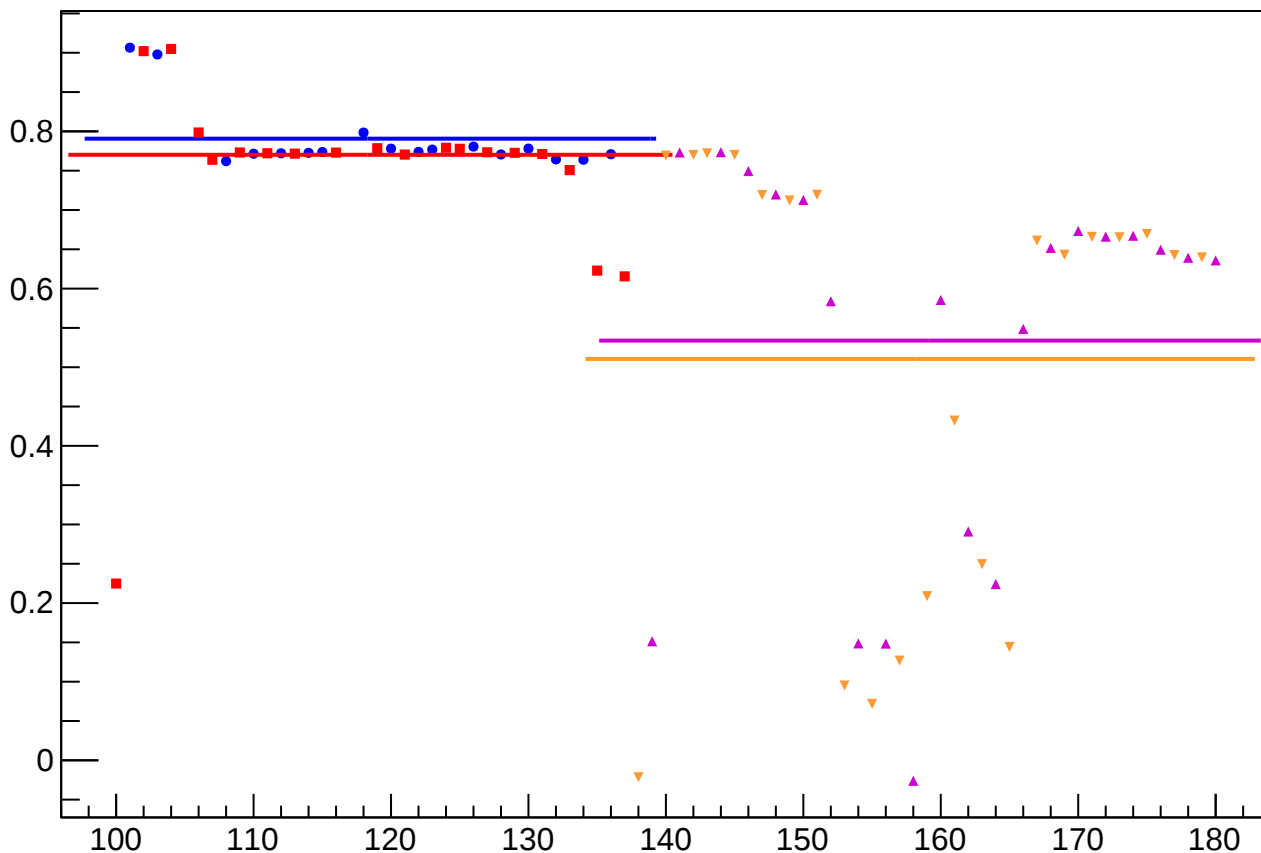
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1279743.5/35

In: 0.003 $\pm$ 0.000 χ^2/NDF :2117710.6/37

Out: 0.003 $\pm$ 0.000 χ^2/NDF :2535768.3/40

All: 0.003 $\pm$ 0.000 χ^2/NDF : 4653617.9/78

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.511 $\pm$ 0.000 χ^2 /NDF: 9359790411.4/21

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.534 $\pm$ 0.000 χ^2 /NDF: 7781930970.5/20

Left: 0.522 $\pm$ 0.000 χ^2 /NDF: 17178939867.5/42

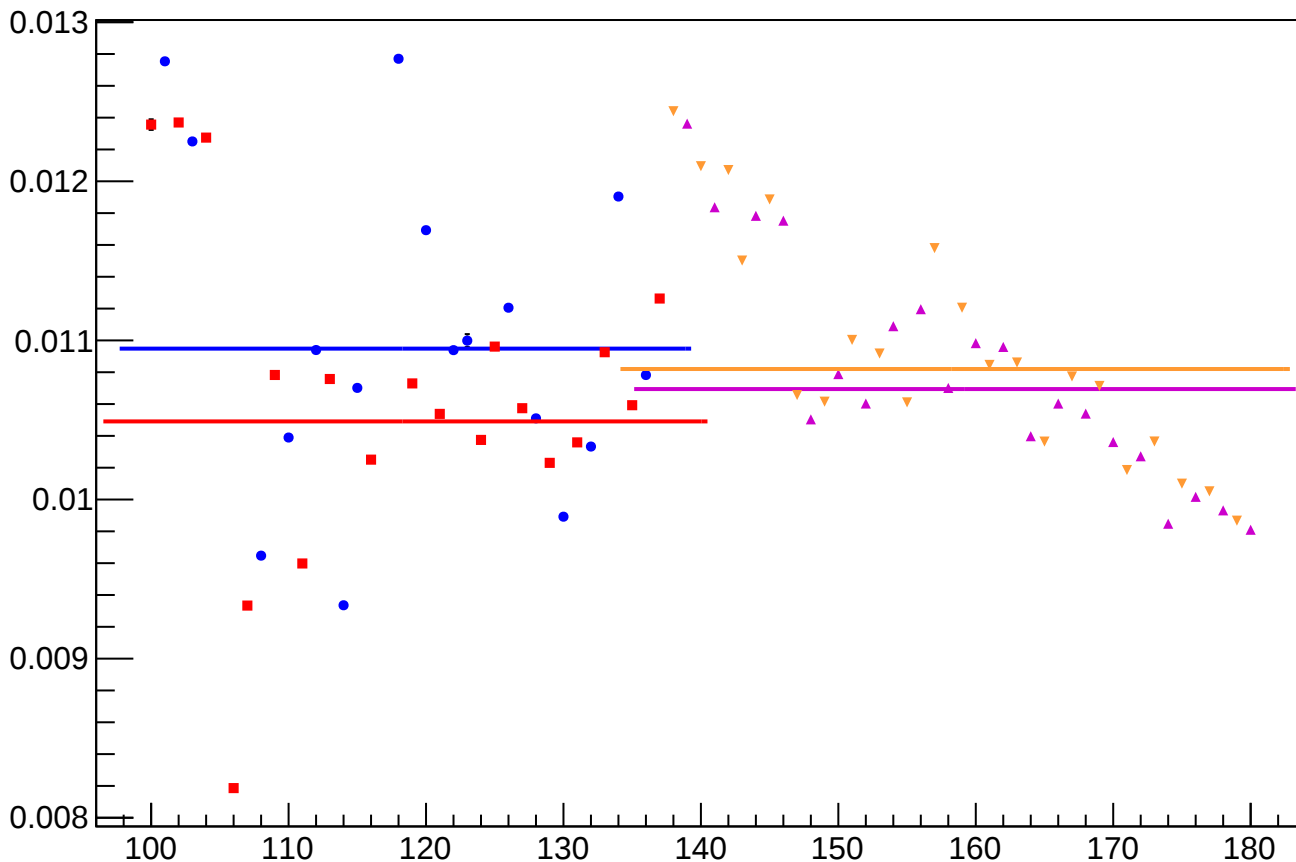
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.606 $\pm$ 0.000 χ^2 /NDF: 10438479111.9/37

Out: 0.592 $\pm$ 0.000 χ^2 /NDF: 12629657016.5/40

All: 0.599 $\pm$ 0.000 χ^2 /NDF: 23086283124.7/77

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :117385.5/21

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF :118878.0/20

Left: 0.011+/-0.000 χ^2/NDF : 238436.5/42

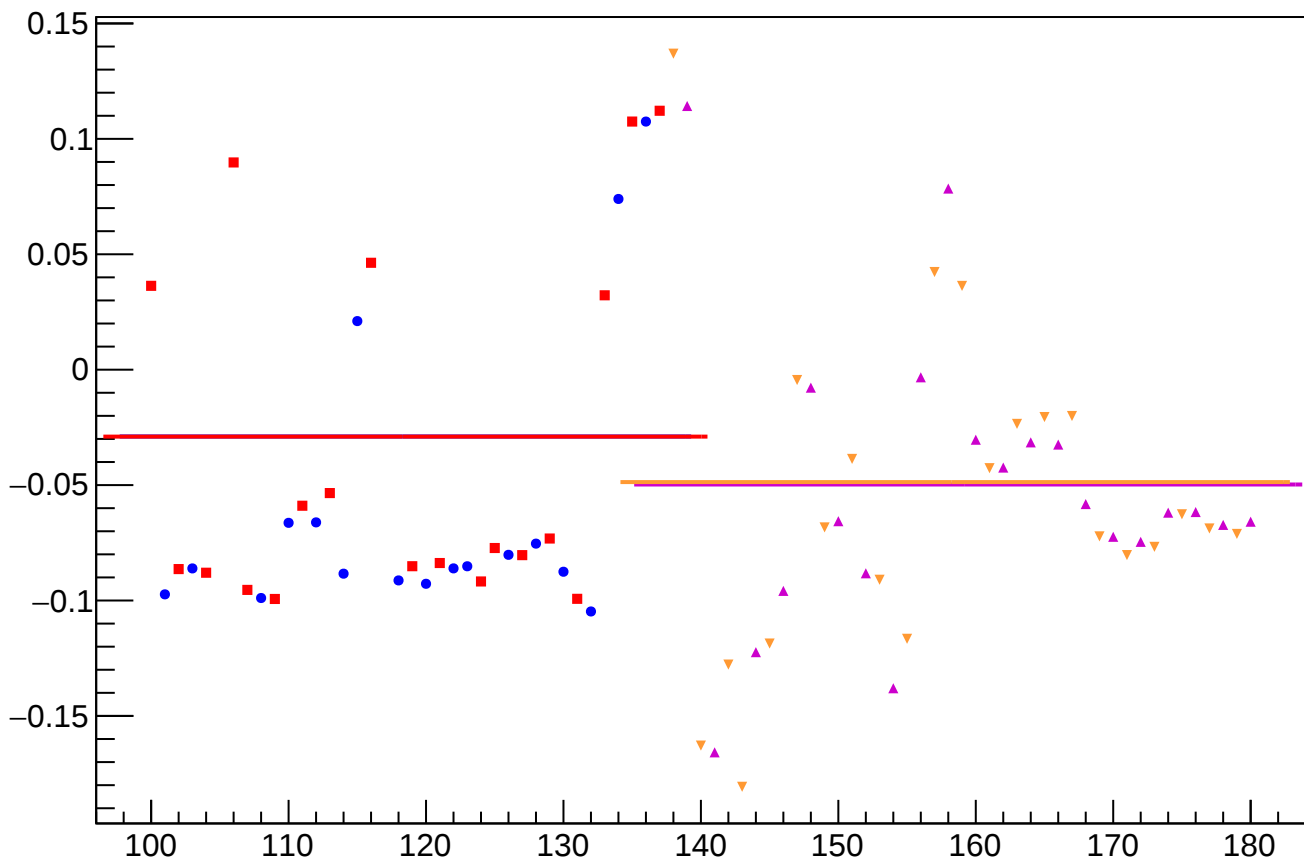
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF :222421.3/37

Out: 0.011+/-0.000 χ^2/NDF :246120.6/40

All: 0.011+/-0.000 χ^2/NDF : 469015.0/78

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.049+/-0.000

χ^2/NDF : 13276809481.5/42

Left Out: -0.049+/-0.000

χ^2/NDF : 7173167183.1/21

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.047+/-0.000

χ^2/NDF : 8660418693.6/37

Out: -0.046+/-0.000

χ^2/NDF : 9383595134.5/40

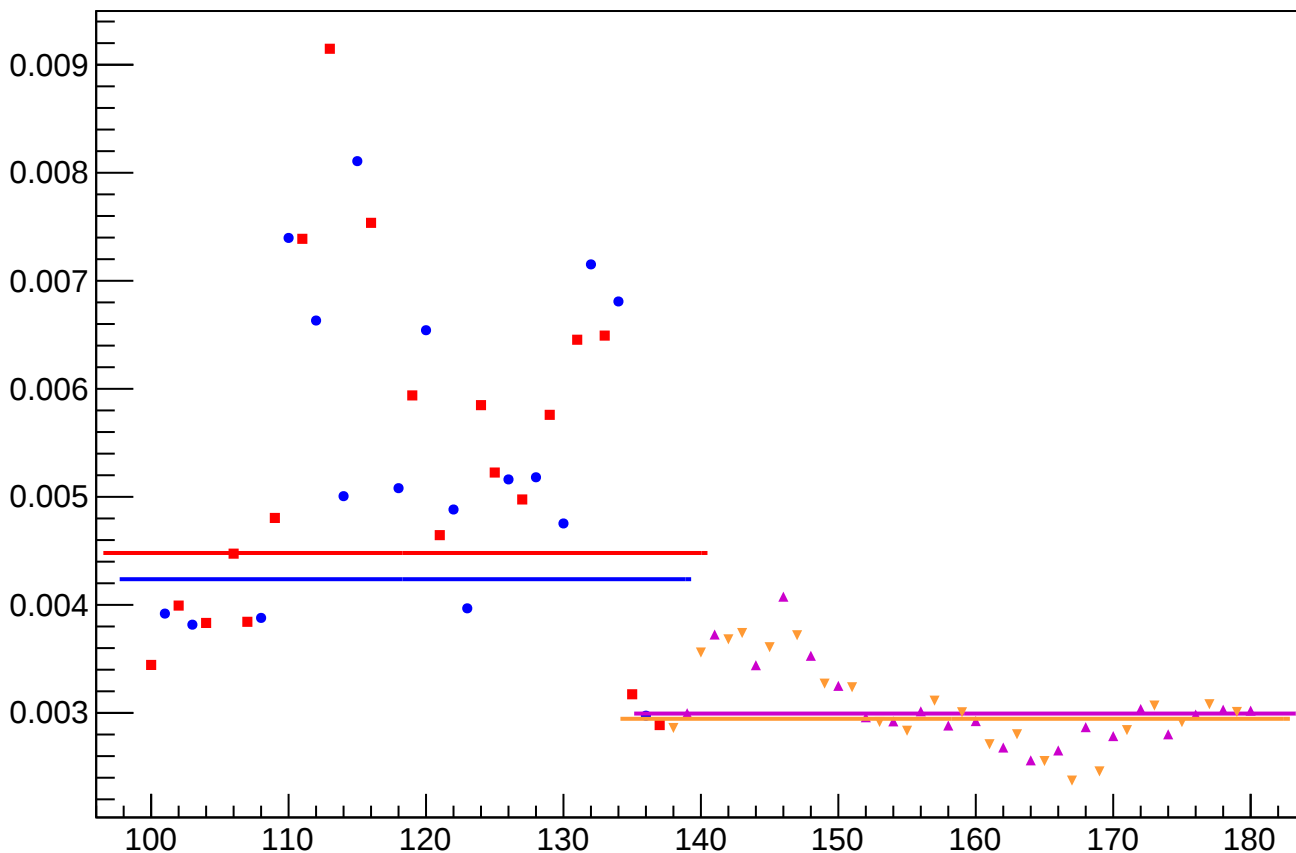
Left In: -0.050+/-0.000

χ^2/NDF : 6102687795.2/20

All: -0.046+/-0.000

χ^2/NDF : 18044451948.6/100

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 : 467953.9/21

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316460.2/20

Left: 0.003+/-0.000 χ^2/NDF : 788482.1/42

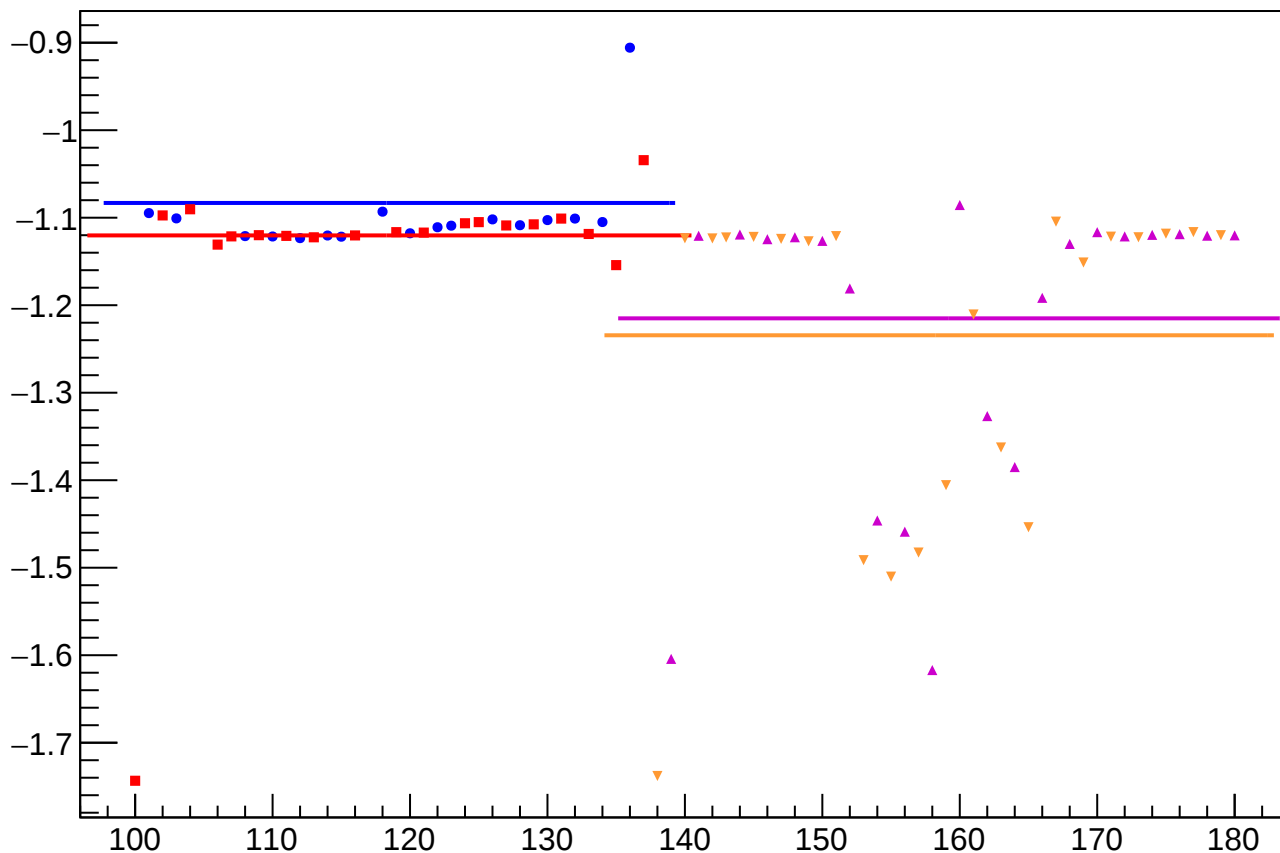
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1997223.6/37

Out: 0.003+/-0.000 χ^2/NDF : 2630779.7/40

All: 0.003+/-0.000 χ^2/NDF : 4628955.9/78

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083 ± 0.000 $\chi^2/\text{NDF}: 202920901.6/16$

Left Out: -1.234 ± 0.000 $\chi^2/\text{NDF}: 5045375728.3/21$

Right Out: -1.120 ± 0.000 $\chi^2/\text{NDF}: 220571280.7/18$

Left In: -1.215 ± 0.000 $\chi^2/\text{NDF}: 4419215663.5/20$

Left: -1.225 ± 0.000 $\chi^2/\text{NDF}: 9496375162.0/42$

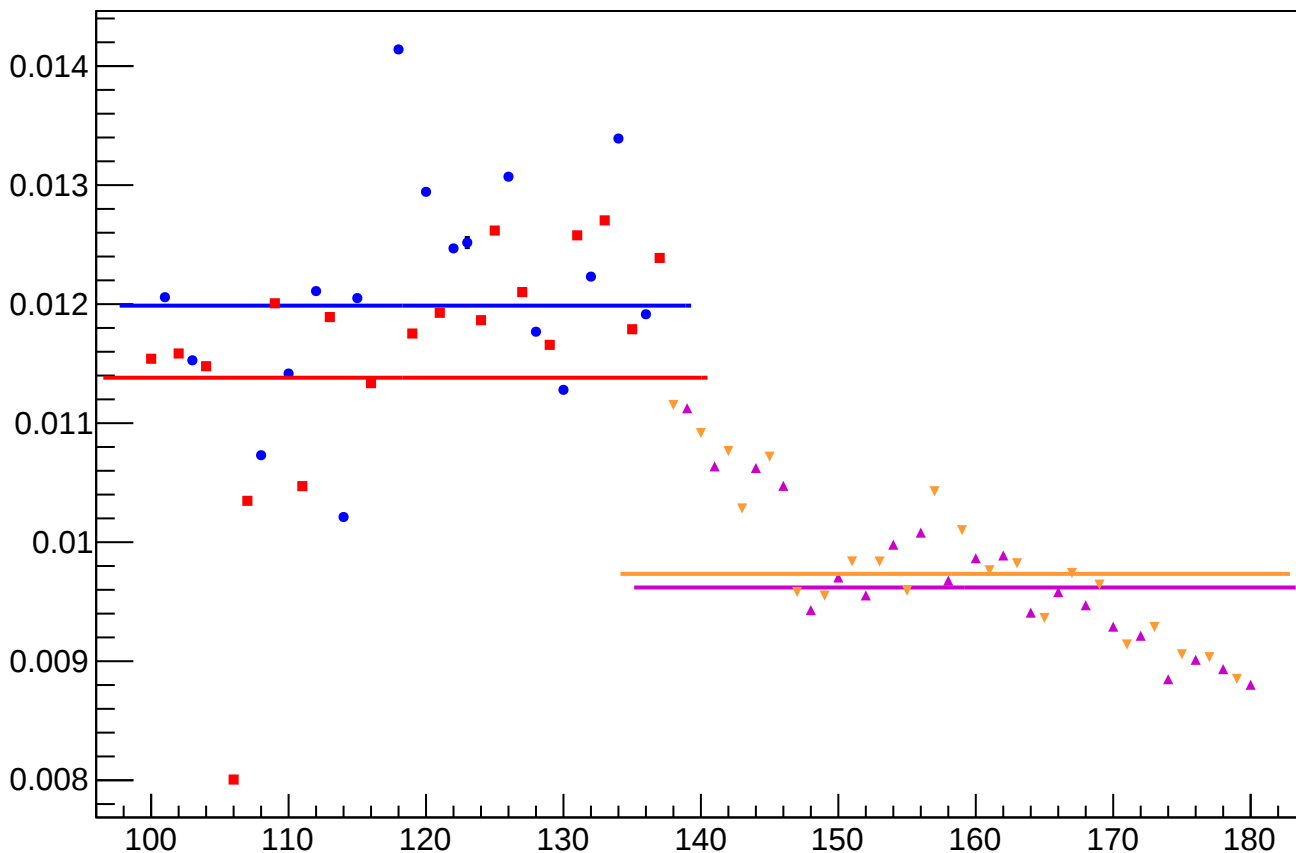
Right: -1.103 ± 0.000 $\chi^2/\text{NDF}: 456854707.0/35$

In: -1.188 ± 0.000 $\chi^2/\text{NDF}: 5239285394.0/37$

Out: -1.207 ± 0.000 $\chi^2/\text{NDF}: 5790393192.9/40$

All: -1.198 ± 0.000 $\chi^2/\text{NDF}: 11071530618.3/77$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 60402.0/16

Left Out: 0.010+/-0.000 χ^2/NDF :119115.1/21

Right Out: 0.011+/-0.000 χ^2/NDF : 154529.8/18

Left In: 0.010+/-0.000 χ^2/NDF :119637.2/20

Left: 0.010+/-0.000 χ^2/NDF : 240972.7/42

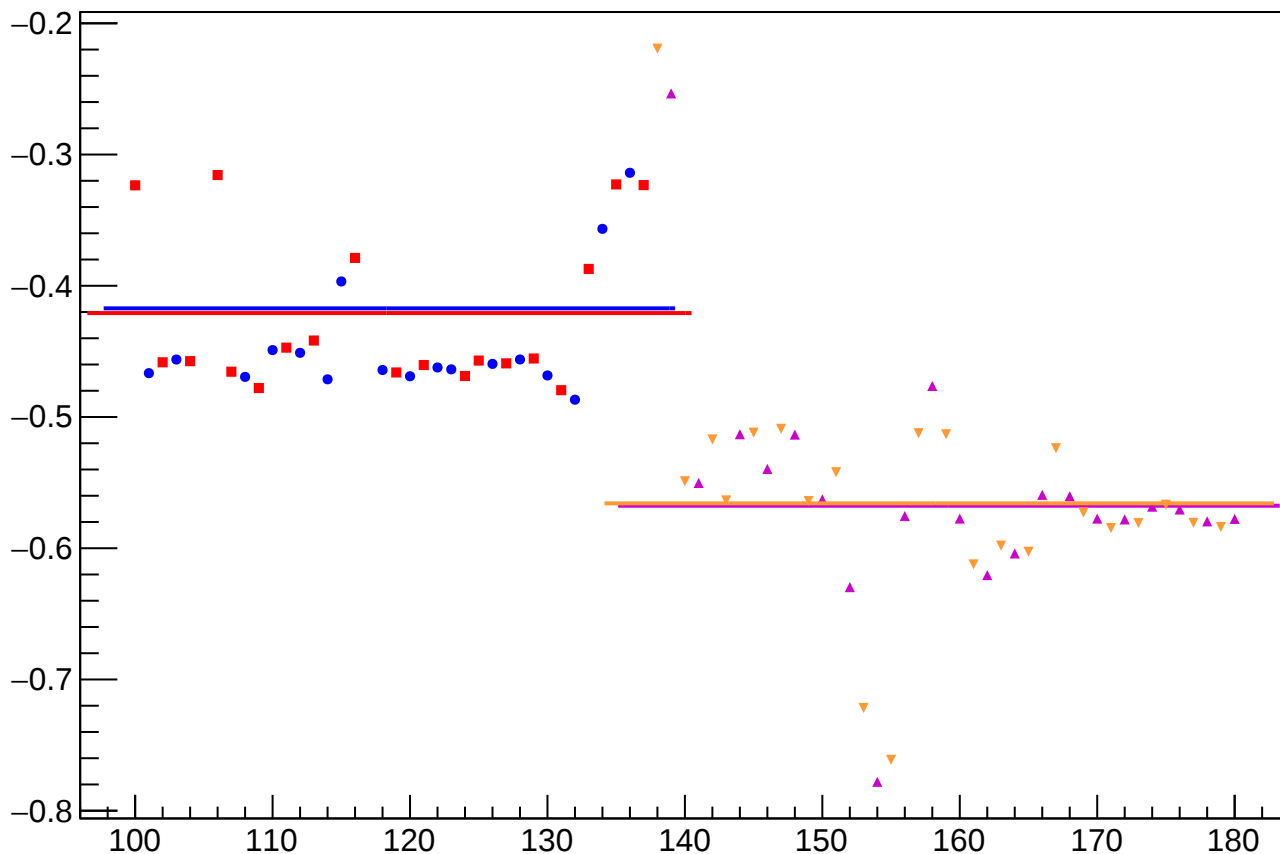
Right: 0.012+/-0.000 χ^2/NDF : 232714.9/35

In: 0.010+/-0.000 χ^2/NDF :577958.8/37

Out: 0.010+/-0.000 χ^2/NDF :492327.0/40

All: 0.010+/-0.000 χ^2/NDF : 1070333.6/78

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.566+/-0.000 χ^2/NDF : 13355057855.6/21

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.568+/-0.000 χ^2/NDF : 10454010757.8/20

Left: -0.567+/-0.000 χ^2/NDF : 23811409767.3/42

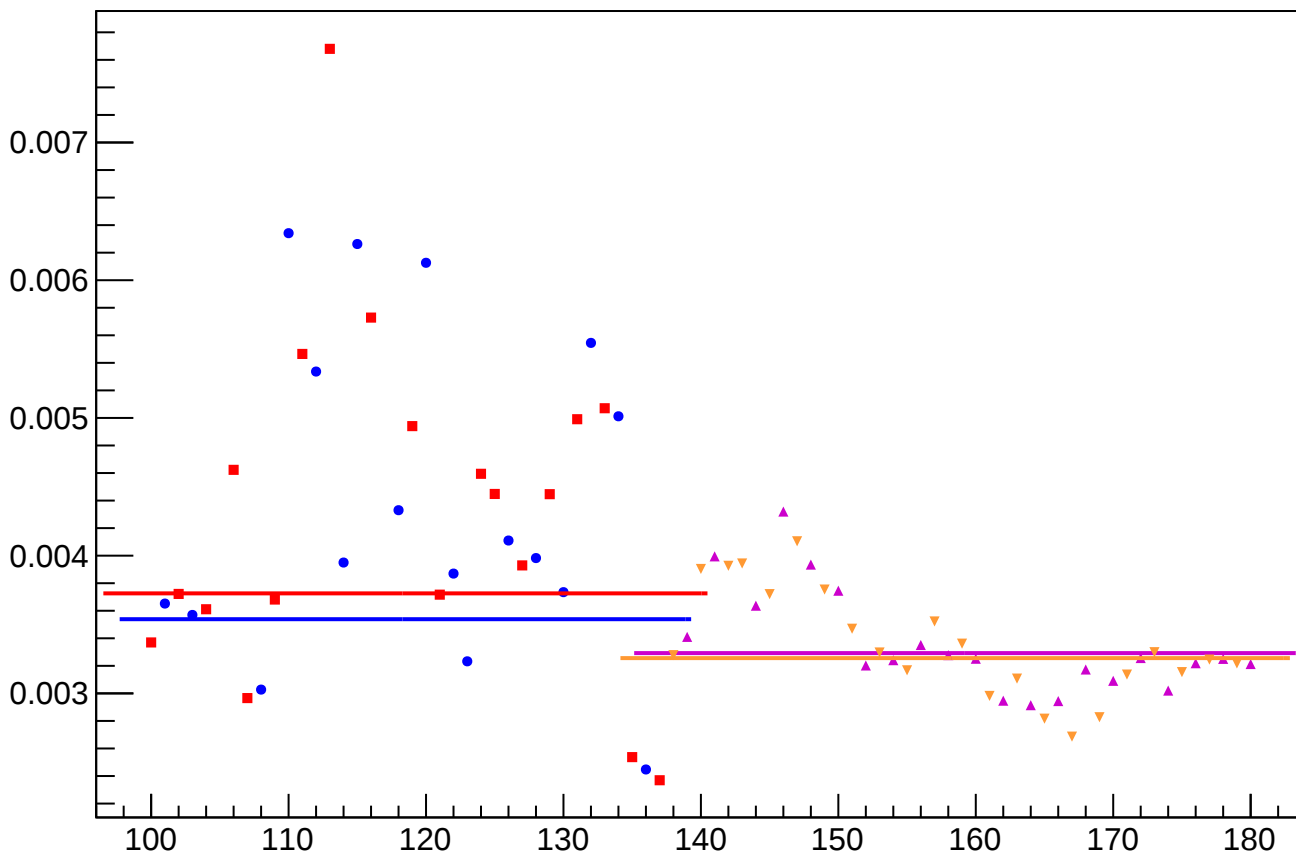
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.532+/-0.000 χ^2/NDF : 20002835322.1/37

Out: -0.533+/-0.000 χ^2/NDF : 21882760391.1/40

All: -0.533+/-0.000 χ^2/NDF : 41886870676.0/77

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 : 374800.8/21

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 278644.2/20

Left: 0.003+/-0.000 χ^2/NDF : 655341.9/42

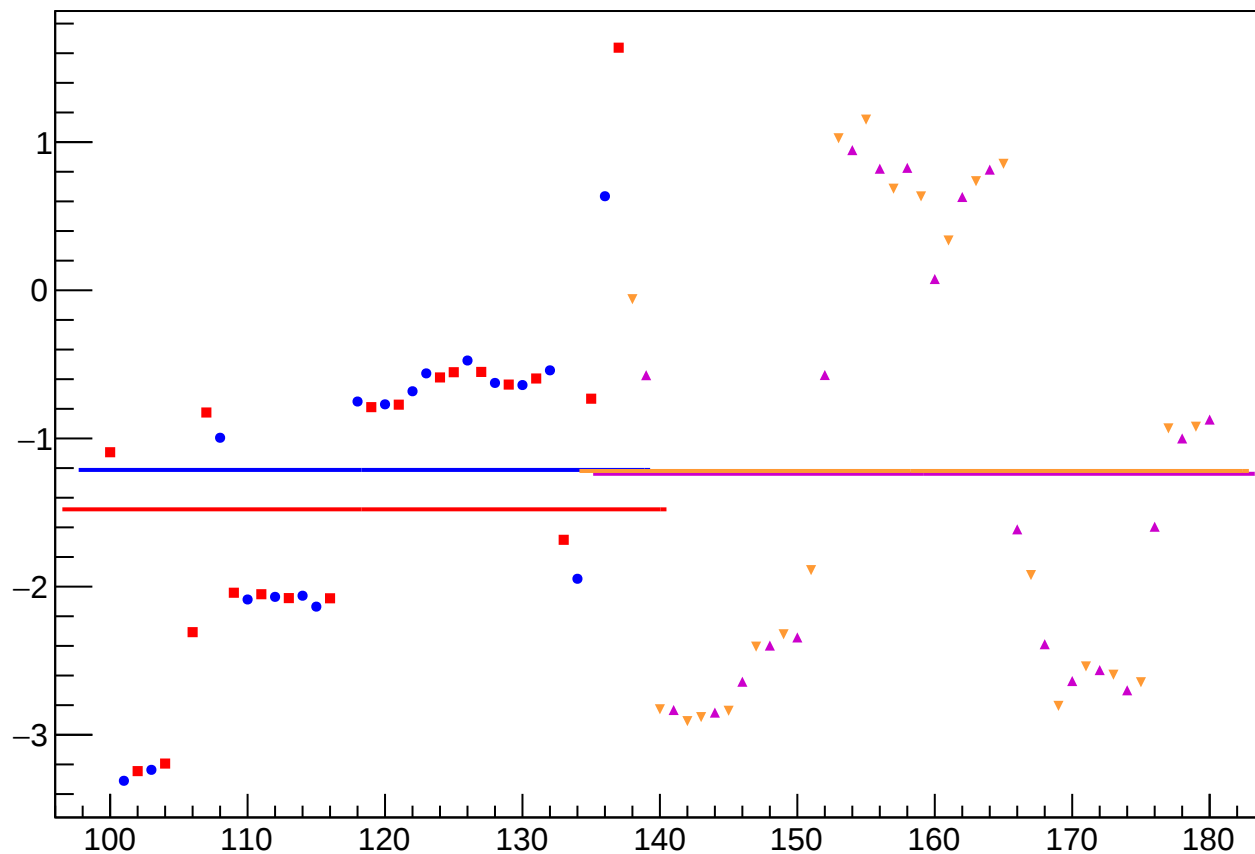
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1155045.2/37

Out: 0.003+/-0.000 χ^2/NDF : 1417931.1/40

All: 0.003+/-0.000 χ^2/NDF : 2573198.6/78

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -1.219 $\pm$ 0.000 χ^2 /NDF: 6745288868.4/21

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -1.238 $\pm$ 0.000 χ^2 /NDF: 5558105057.3/20

Left: -1.229 $\pm$ 0.000 χ^2 /NDF: 12303929521.7/42

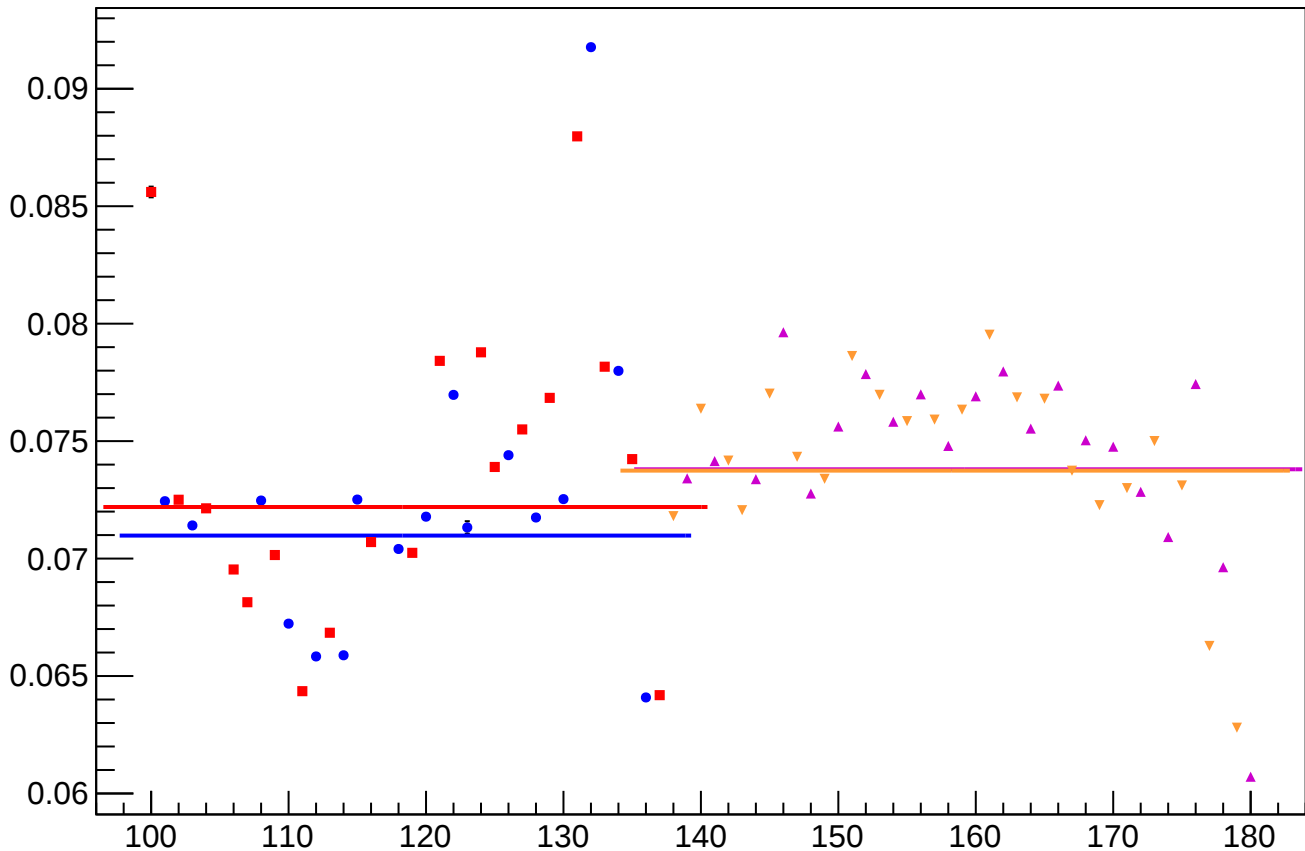
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.230 $\pm$ 0.000 χ^2 /NDF: 7551569382.4/37

Out: -1.299 $\pm$ 0.000 χ^2 /NDF: 8385495254.9/40

All: -1.265 $\pm$ 0.000 χ^2 /NDF: 15947210053.1/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.074+/-0.000 χ^2/NDF :100847.1/21

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.074+/-0.000 χ^2/NDF :121641.2/20

Left: 0.074+/-0.000 χ^2/NDF : 222497.9/42

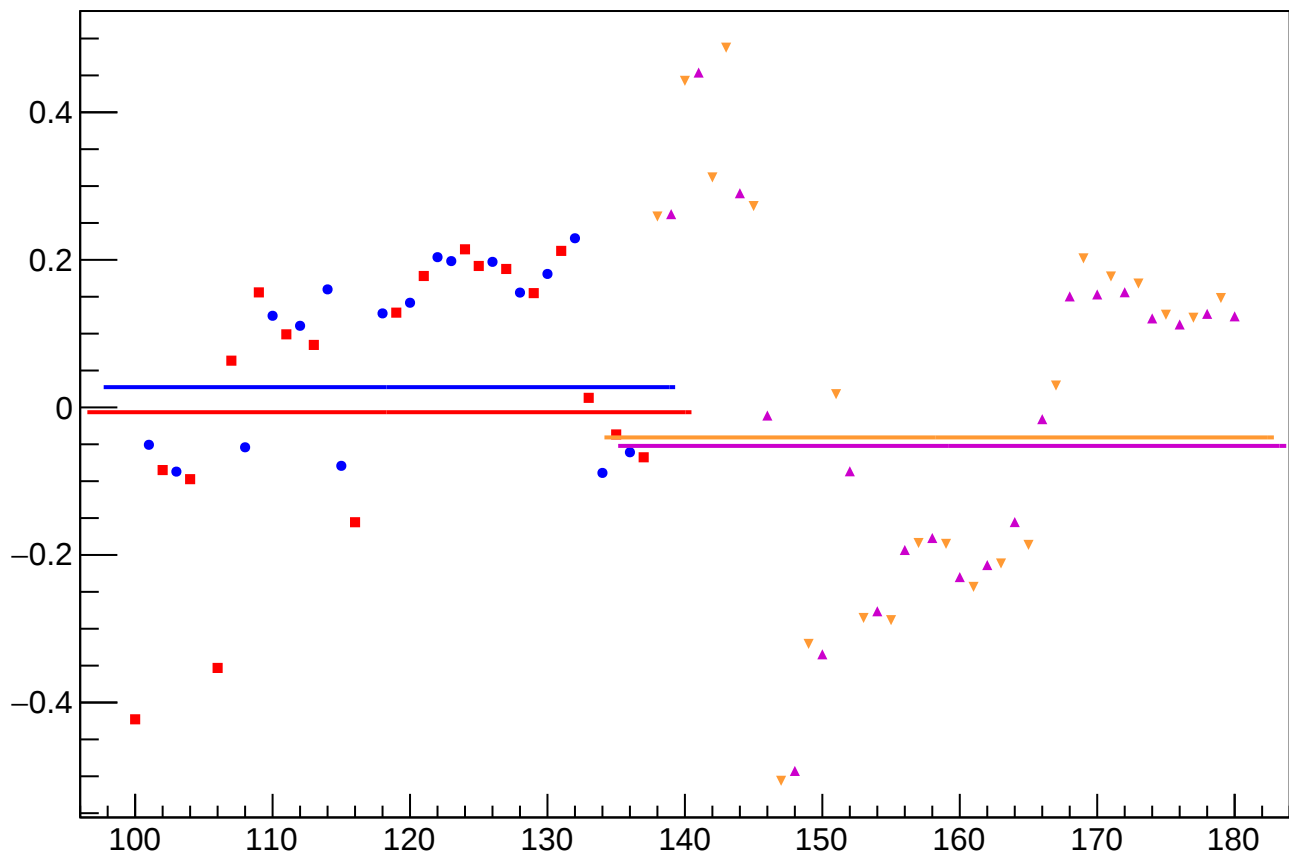
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.073+/-0.000 χ^2/NDF :213617.4/37

Out: 0.073+/-0.000 χ^2/NDF :178508.3/40

All: 0.073+/-0.000 χ^2/NDF : 392605.0/78

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.046+/-0.000

χ^2/NDF : 34633162404.3/42

Left Out: -0.041+/-0.000

χ^2/NDF : 19419306643.7/21

Right: 0.010+/-0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000

χ^2/NDF : 1199278894.0/18

In: -0.043+/-0.000

χ^2/NDF : 15999171217.6/37

Out: -0.037+/-0.000

χ^2/NDF : 20664505310.2/40

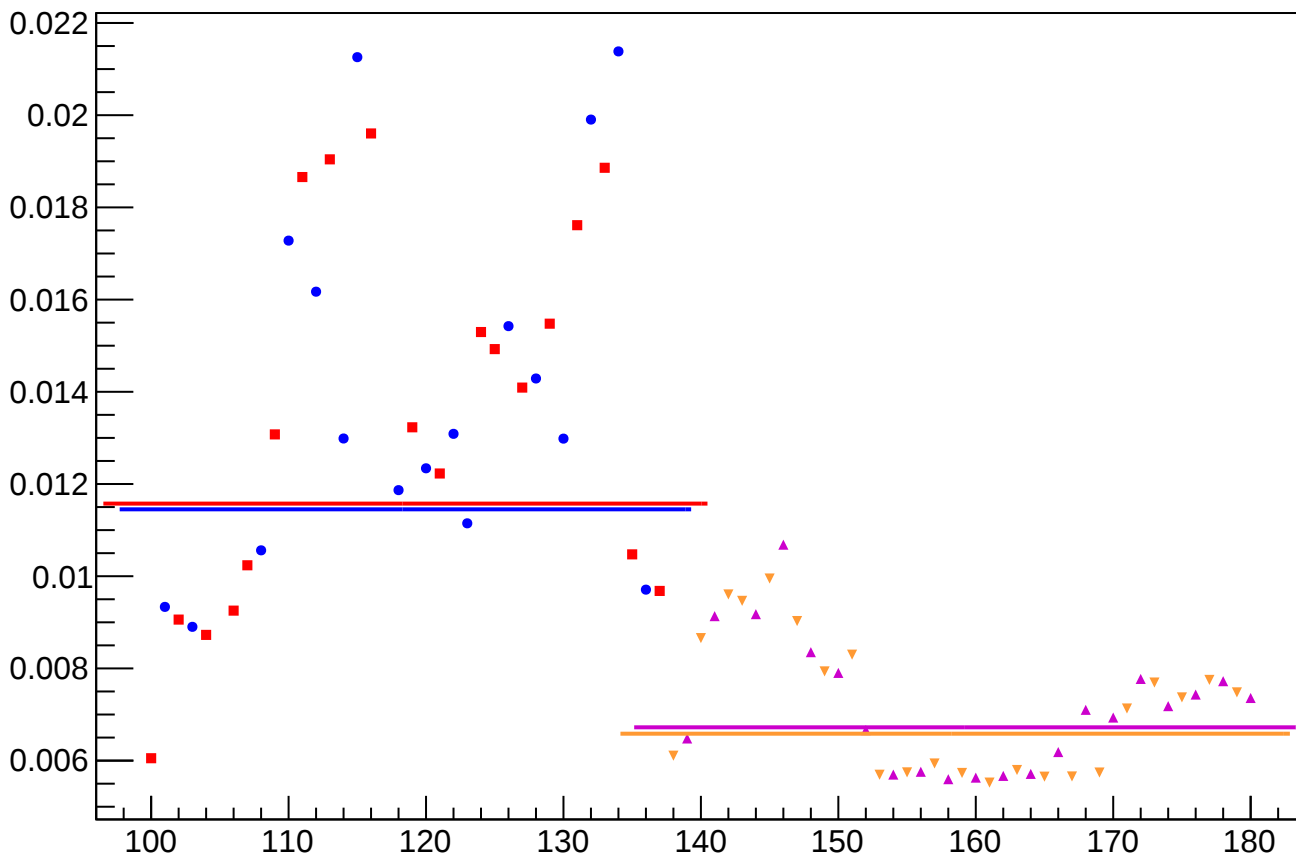
Left In: -0.052+/-0.000

χ^2/NDF : 15191401388.1/20

All: -0.040+/-0.000

χ^2/NDF : 36670617928.9/...

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 :1062217.3/21

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :895183.8/20

Left: 0.007+/-0.000 χ^2/NDF : 1963910.0/42

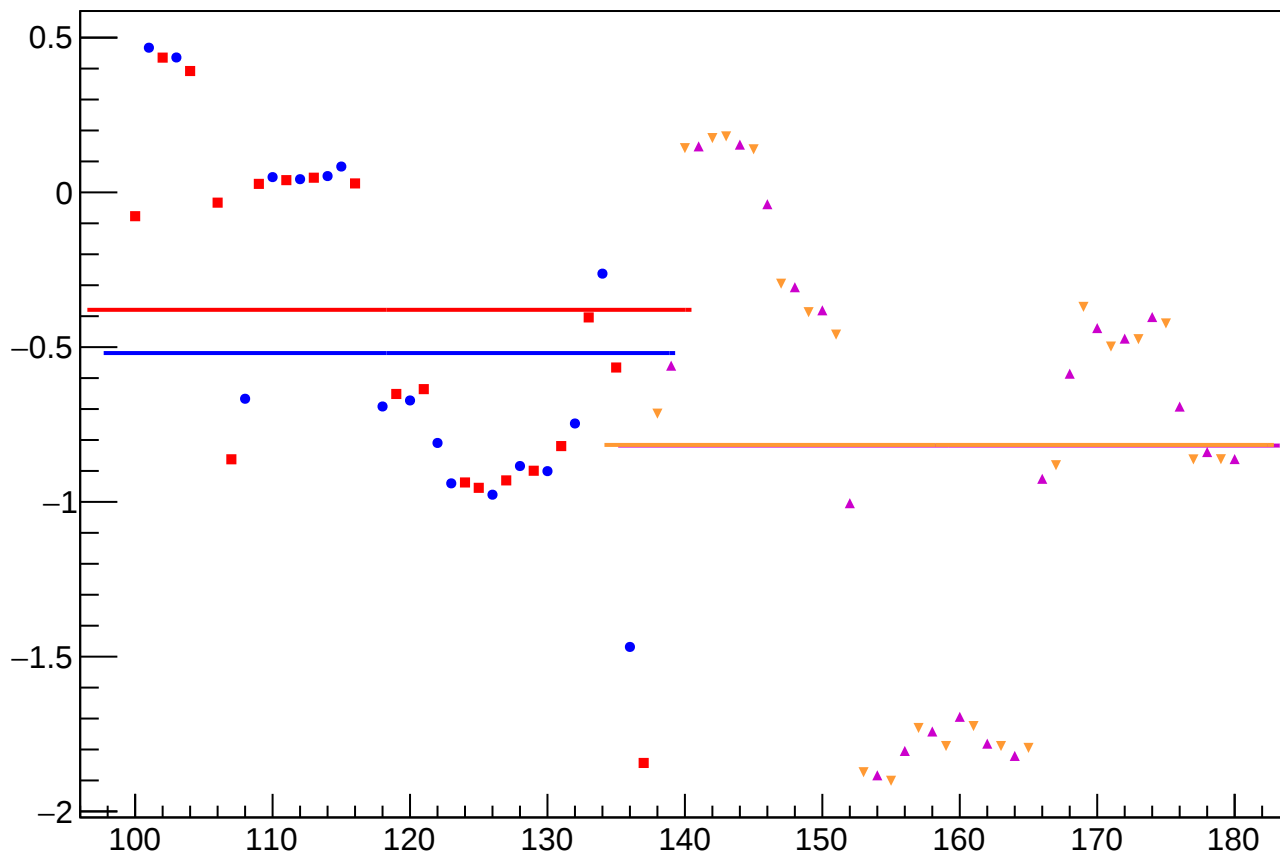
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3305445.4/37

Out: 0.007+/-0.000 χ^2/NDF :4017859.4/40

All: 0.007+/-0.000 χ^2/NDF : 7329907.1/78

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 339383872.4/16$

Left Out: -0.816 ± 0.000 $\chi^2/\text{NDF}: 1082345092.6/21$

Right Out: -0.379 ± 0.000 $\chi^2/\text{NDF}: 268621179.0/18$

Left In: -0.818 ± 0.000 $\chi^2/\text{NDF}: 919567953.6/20$

Left: -0.817 ± 0.000 $\chi^2/\text{NDF}: 2001917901.9/42$

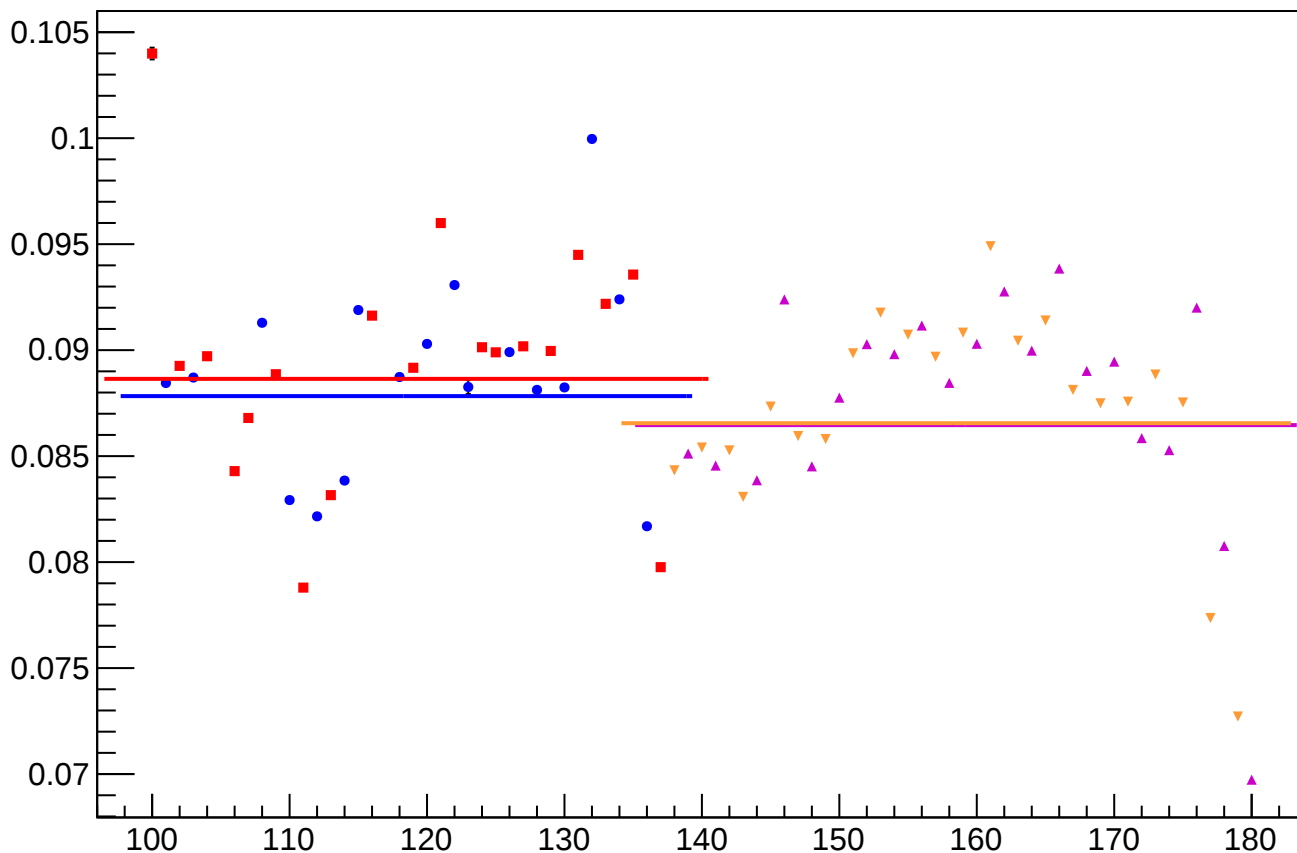
Right: -0.448 ± 0.000 $\chi^2/\text{NDF}: 616632603.2/35$

In: -0.732 ± 0.000 $\chi^2/\text{NDF}: 1314194779.3/37$

Out: -0.689 ± 0.000 $\chi^2/\text{NDF}: 1472842964.8/40$

All: -0.710 ± 0.000 $\chi^2/\text{NDF}: 2789948146.4/77$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34954.4/16

Left Out: 0.087 $\pm$ 0.000 χ^2 /NDF:119424.7/21

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 39722.9/18

Left In: 0.086 $\pm$ 0.000 χ^2 /NDF:157132.4/20

Left: 0.087 $\pm$ 0.000 χ^2 /NDF: 276574.8/42

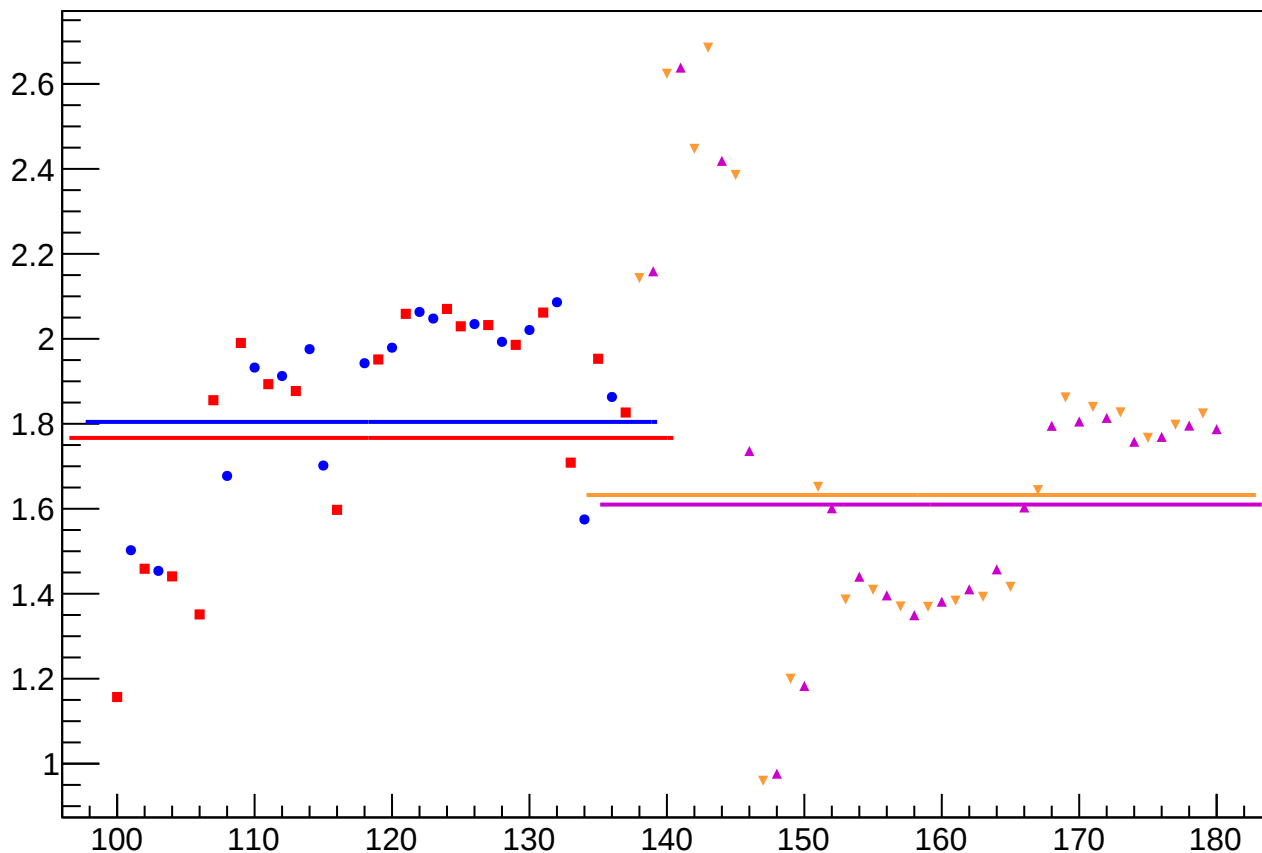
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 75262.5/35

In: 0.087 $\pm$ 0.000 χ^2 /NDF:194402.1/37

Out: 0.087 $\pm$ 0.000 χ^2 /NDF:164744.1/40

All: 0.087 $\pm$ 0.000 χ^2 /NDF: 359435.8/78

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000 χ^2/NDF : 1156747883.2/16

Left Out: 1.632+/-0.000 χ^2/NDF : 25791575198.6/21

Right Out: 1.767+/-0.000 χ^2/NDF : 1709259284.5/18

Left In: 1.610+/-0.000 χ^2/NDF : 20282386006.8/20

Left: 1.621+/-0.000 χ^2/NDF : 46121356097.5/42

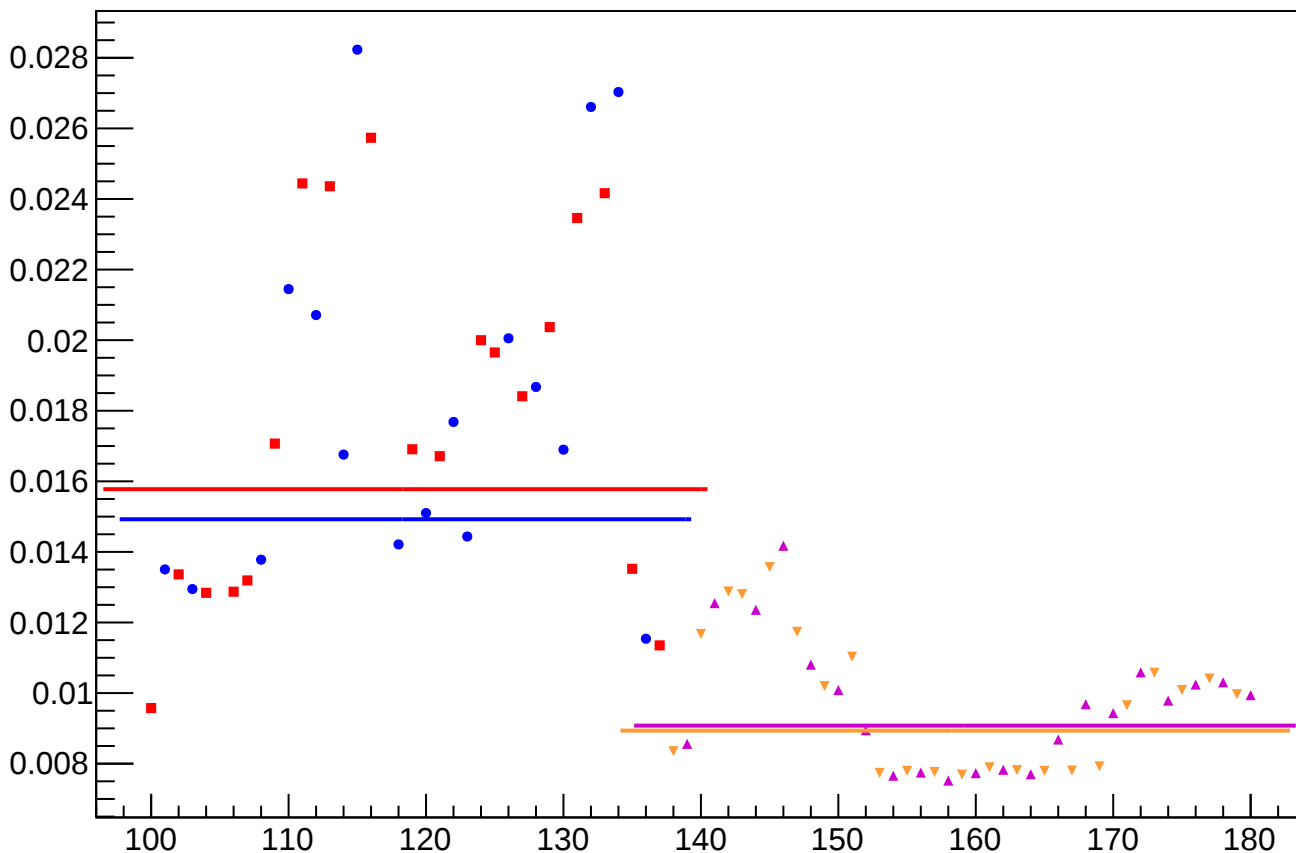
Right: 1.786+/-0.000 χ^2/NDF : 2883751688.5/35

In: 1.634+/-0.000 χ^2/NDF : 22295936779.9/37

Out: 1.647+/-0.000 χ^2/NDF : 27889787546.5/40

All: 1.641+/-0.000 χ^2/NDF : 50205013145.4/71

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 : 975316.1/21

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 851020.3/20

Left: 0.009+/-0.000 χ^2/NDF : 1830069.8/42

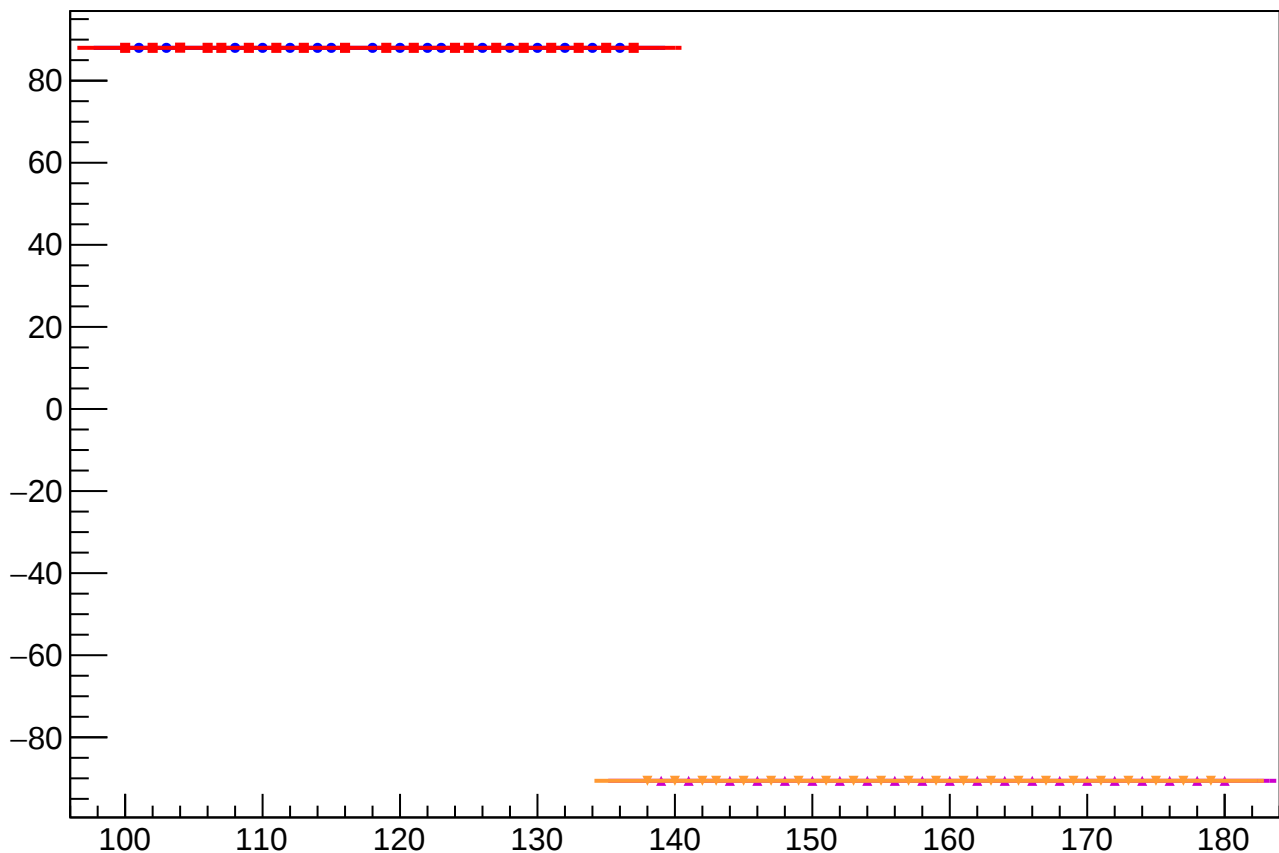
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3042138.4/37

Out: 0.010+/-0.000 χ^2/NDF : 3775932.9/40

All: 0.010+/-0.000 χ^2/NDF : 6820132.2/78

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 : 6455482.3/21

Right Out: 88.004+/-0.000 χ^2/NDF : 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 5822979.9/20

Left: -90.599+/-0.000 χ^2/NDF : 12218483.5/42

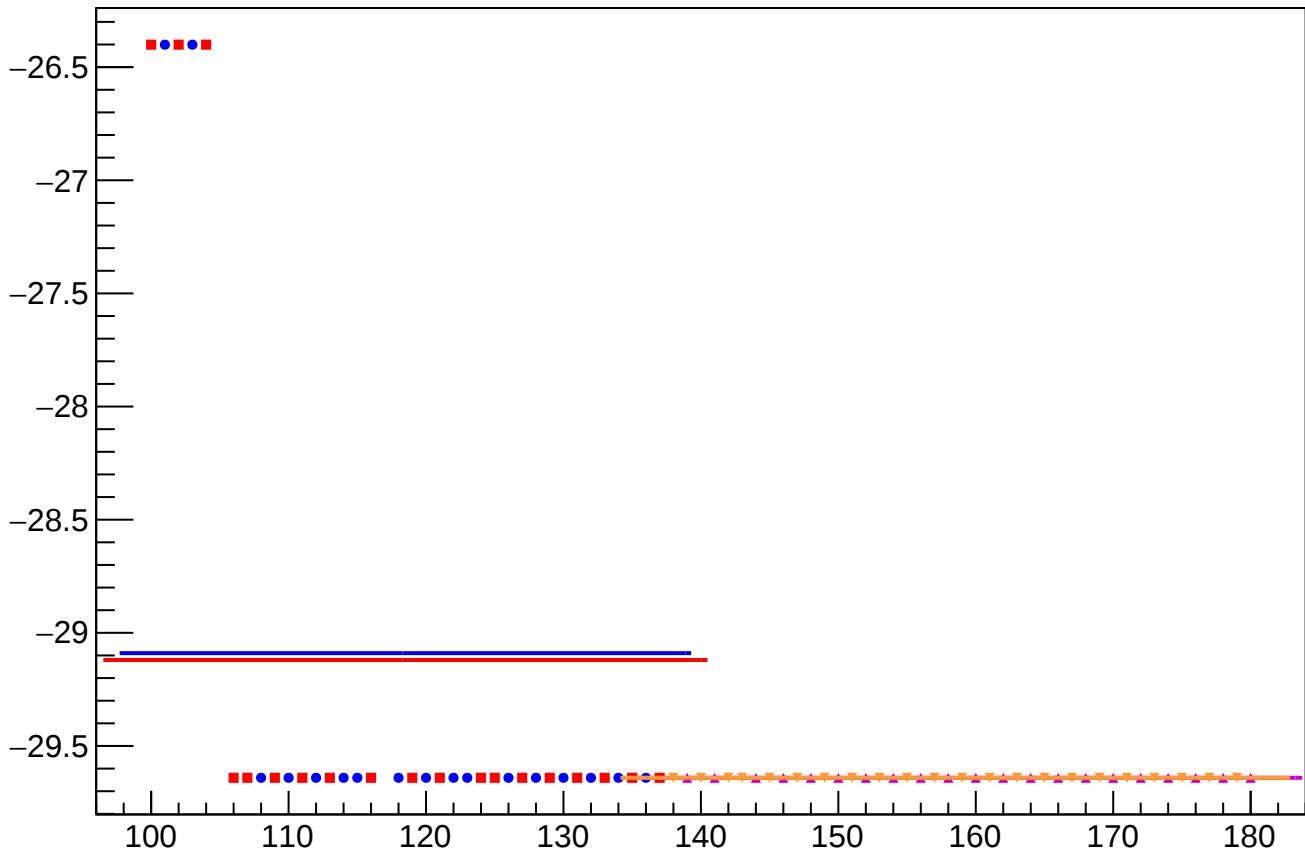
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -38.608+/-0.000 χ^2/NDF : 15692886478859035

Out: -37.642+/-0.000 χ^2/NDF : 1620214077688166

All: -38.120+/-0.000 χ^2/NDF : 318961504628

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 : 424369.3/42

Right: -29.105+/-0.000

χ^2/NDF : 205050154576273.0

Left Out: -29.641+/-0.000

χ^2/NDF : 251085.0/21

In: -29.480+/-0.000

χ^2/NDF : 11774044751677705.0

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Out: -29.486+/-0.000

χ^2/NDF : 1159711043285395.0

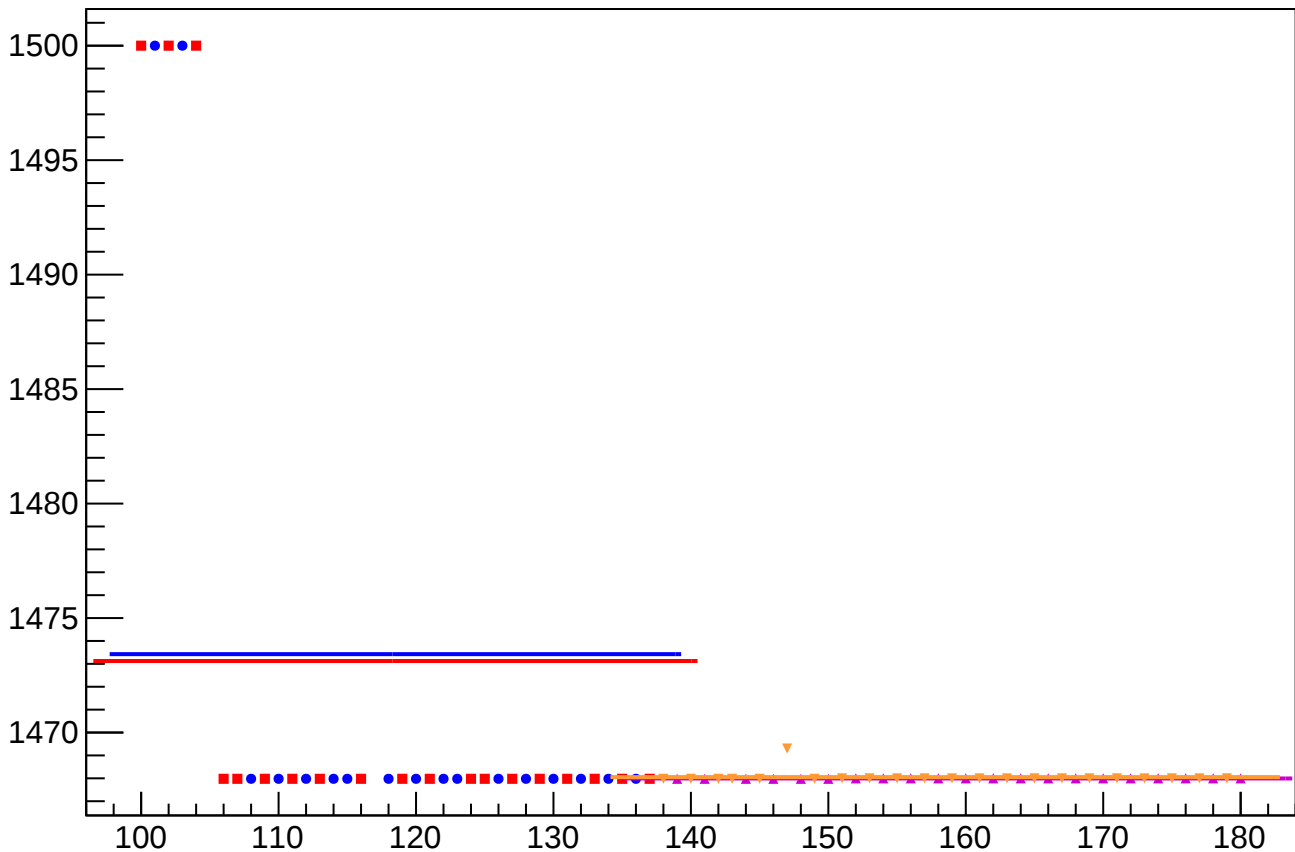
Left In: -29.641+/-0.000

χ^2/NDF : 478327.4/20

All: -29.483+/-0.000

χ^2/NDF : 233715917493.0

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000

χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.053+/-0.000

χ^2/NDF : 127416553240058628421798493945856.0/21

Right Out: 1473.124+/-0.000

χ^2/NDF : 99833021788859785886082809393577984.0/18

Left In: 1467.993+/-0.000

χ^2/NDF : 140991479256117896147625836544.0/20

Left: 1468.024+/-0.000 χ^2/NDF : 130631398562735

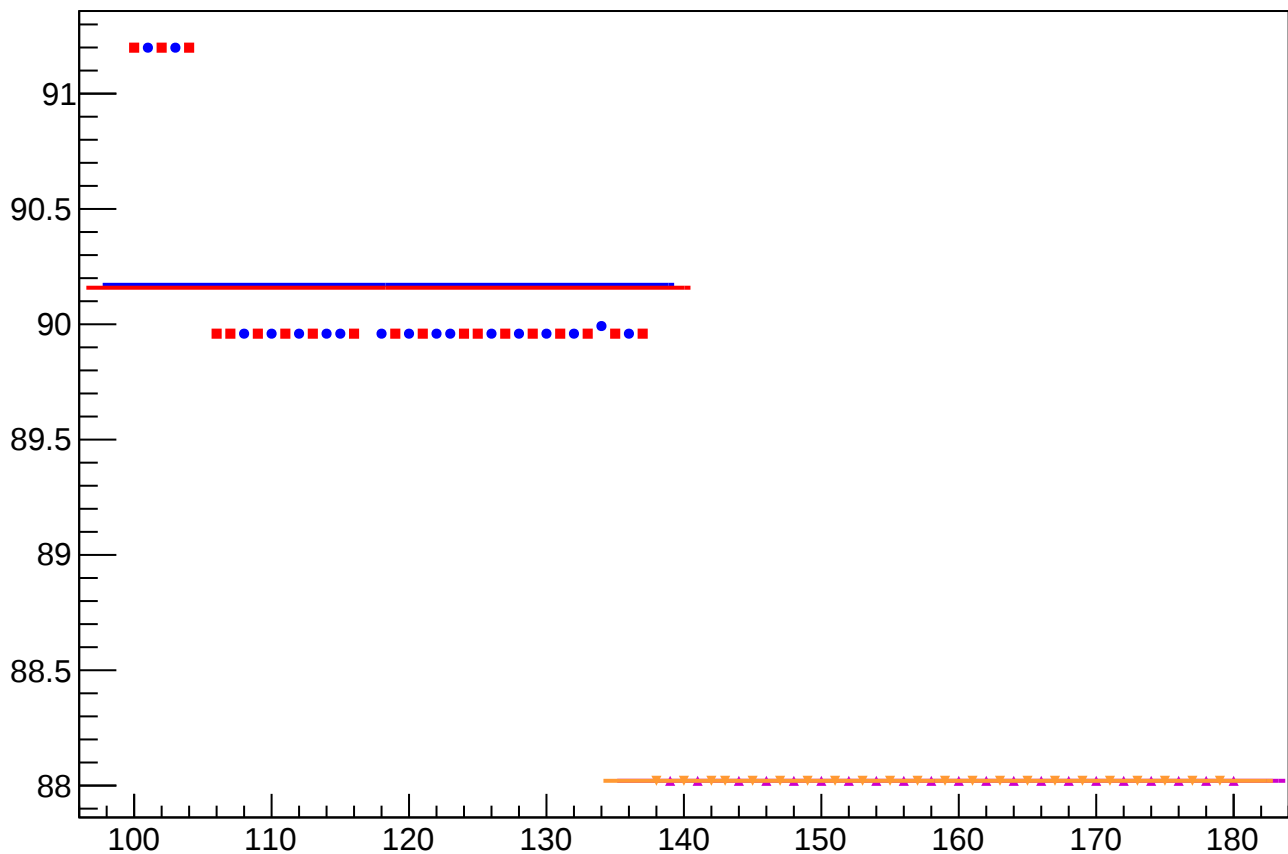
Right: 1473.271+/-0.000 χ^2/NDF : 20028613298037

In: 1469.574+/-0.000 χ^2/NDF : 1149297893175217

Out: 1469.557+/-0.000 χ^2/NDF : 113019219369955

All: 1469.565+/-0.000 χ^2/NDF : 22794936862

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 6320378.8/21

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5960506.8/20

Left: 88.021+/-0.000 χ^2/NDF : 10741231.1/42

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

In: 88.647+/-0.000

χ^2/NDF : 242536380454141541

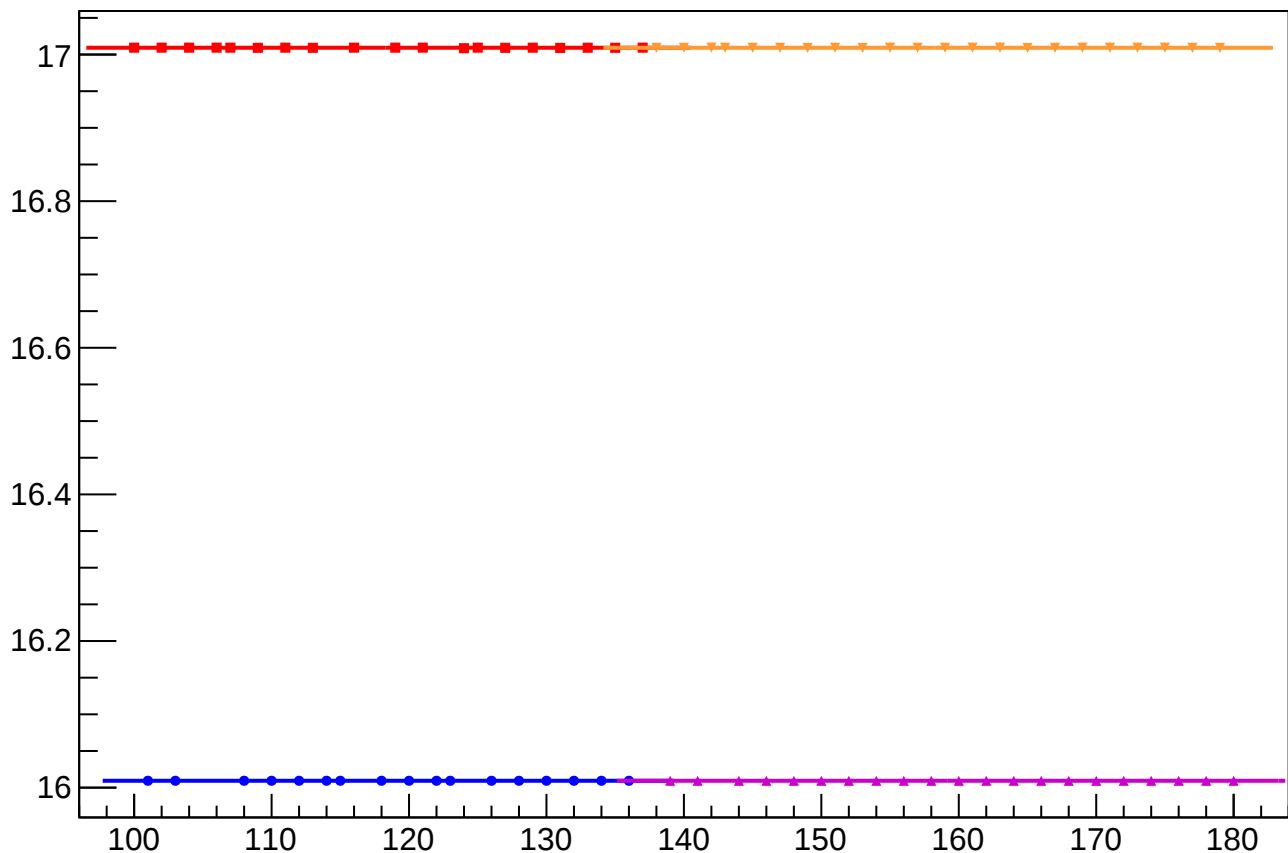
Out: 88.655+/-0.000

χ^2/NDF : 24710363481029399

All: 88.651+/-0.000

χ^2/NDF : 4896474893977

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009+/-0.000 χ^2/NDF : 23664779979825344967344128.0/21

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 127551577199997735665664.0/20

Left: 16.511+/-0.000 χ^2/NDF : 78655353860762414

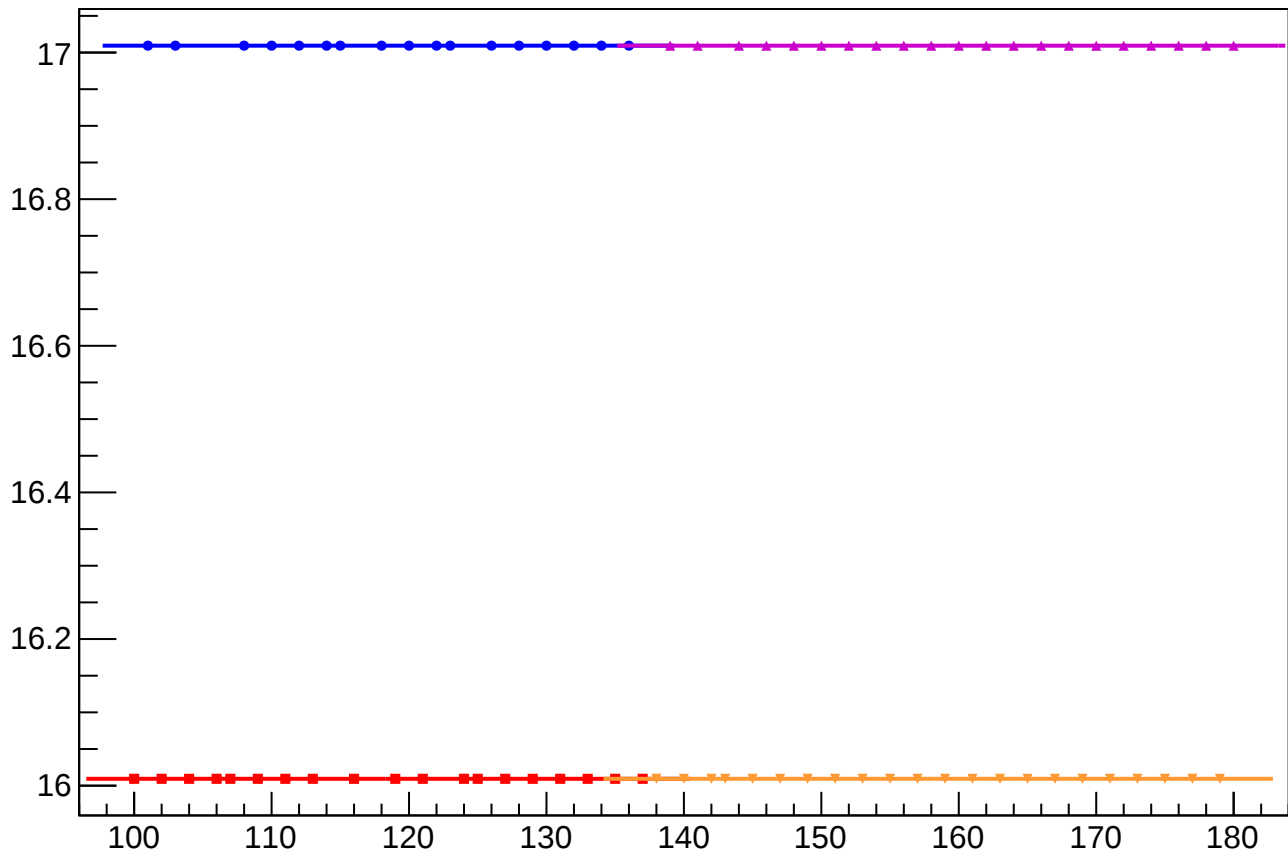
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 129398443791500118

Out: 17.009+/-0.000 χ^2/NDF : 36654100652963801

All: 16.509+/-0.000 χ^2/NDF : 1115500052183

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 56368.8/21

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114626721460555654103040.0/20

Left: 16.503 $\pm$ 0.000 χ^2 /NDF: 83335166291003200

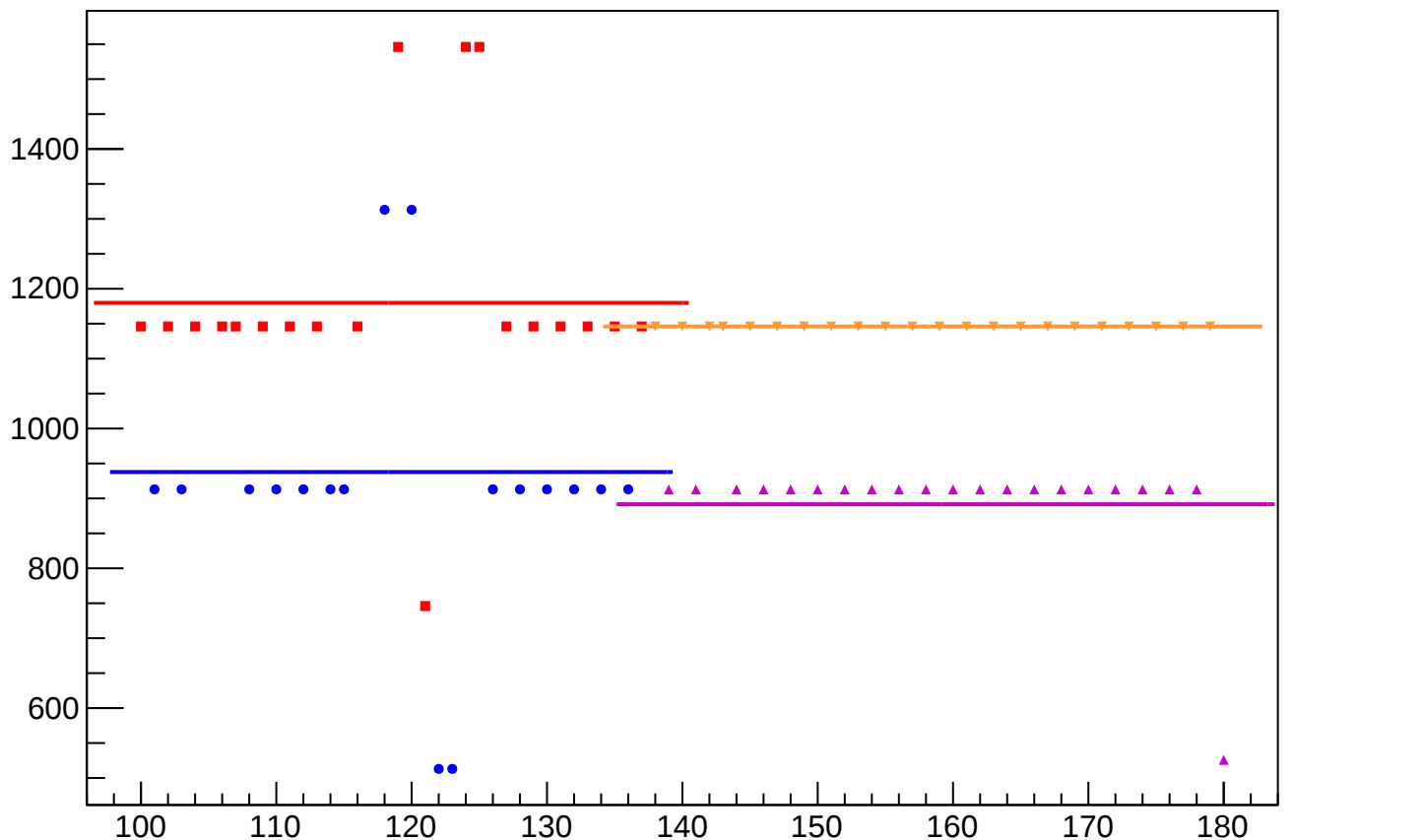
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116330230903224764

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 421453.7/40

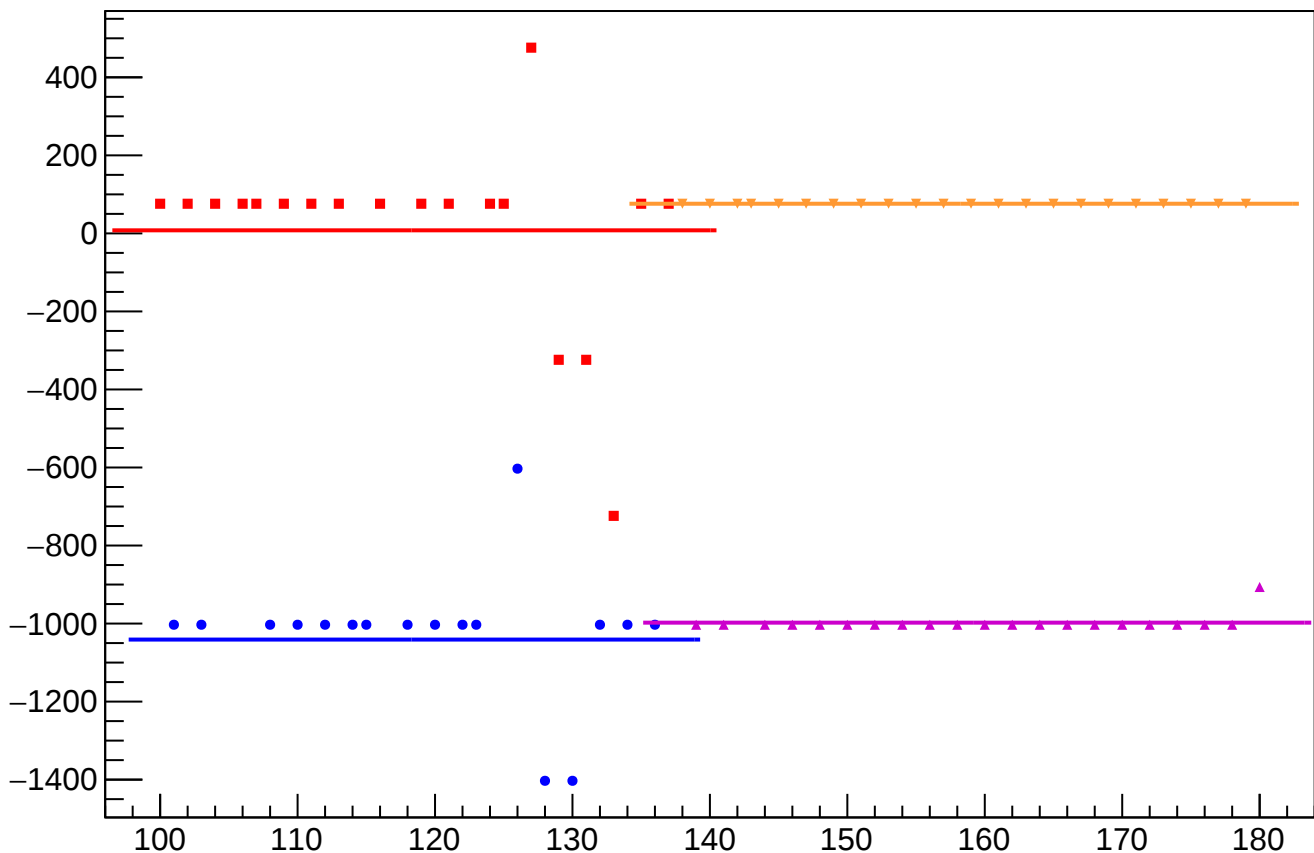
All: 16.499 $\pm$ 0.000 χ^2 /NDF: 1177247500649

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 : 5893985800894426476288409600.0/21
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 891.693+/-0.000 χ^2/NDF : 13168607777184724524303746916755177472.0/20
 All: 1031.898+/-0.000 χ^2/NDF : 13290953506

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 : 10659535831061999505926782976.0/21

Right Out: 7.865+/-0.000

χ^2/NDF : 43846919472163570410830042713366200320.0/18

Left In: -997.664+/-0.000

χ^2/NDF : 823027729017640584703469096290746368.0/20

All: -471.600+/-0.000 χ^2/NDF : 14397409162