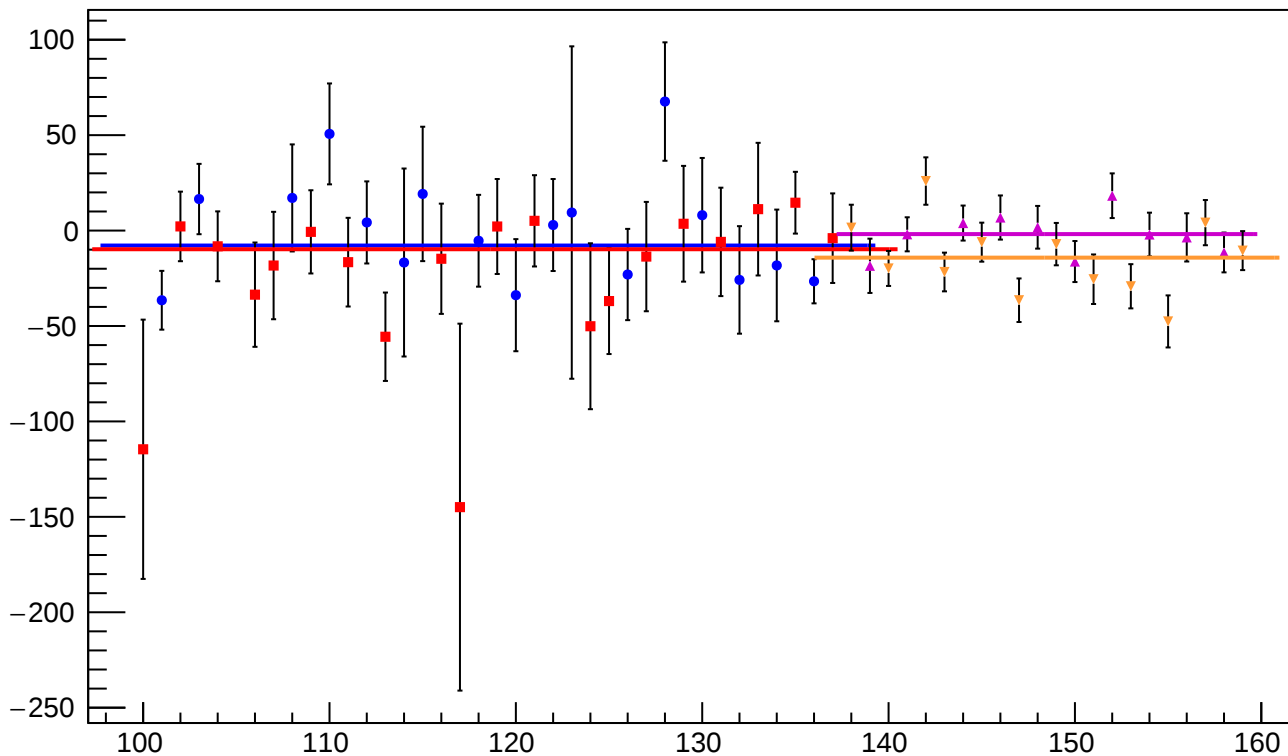


diff_bpm4aX_mean vs Slug



Right In: -7.841+/-5.608

χ^2/NDF : 22.6/16

-12.603+/-2.799

χ^2/NDF : 52.5/28

Left Out: -14.183+/-3.230

χ^2/NDF : 28.9/11

Right Out: -9.781+/-5.667

χ^2/NDF : 15.2/19

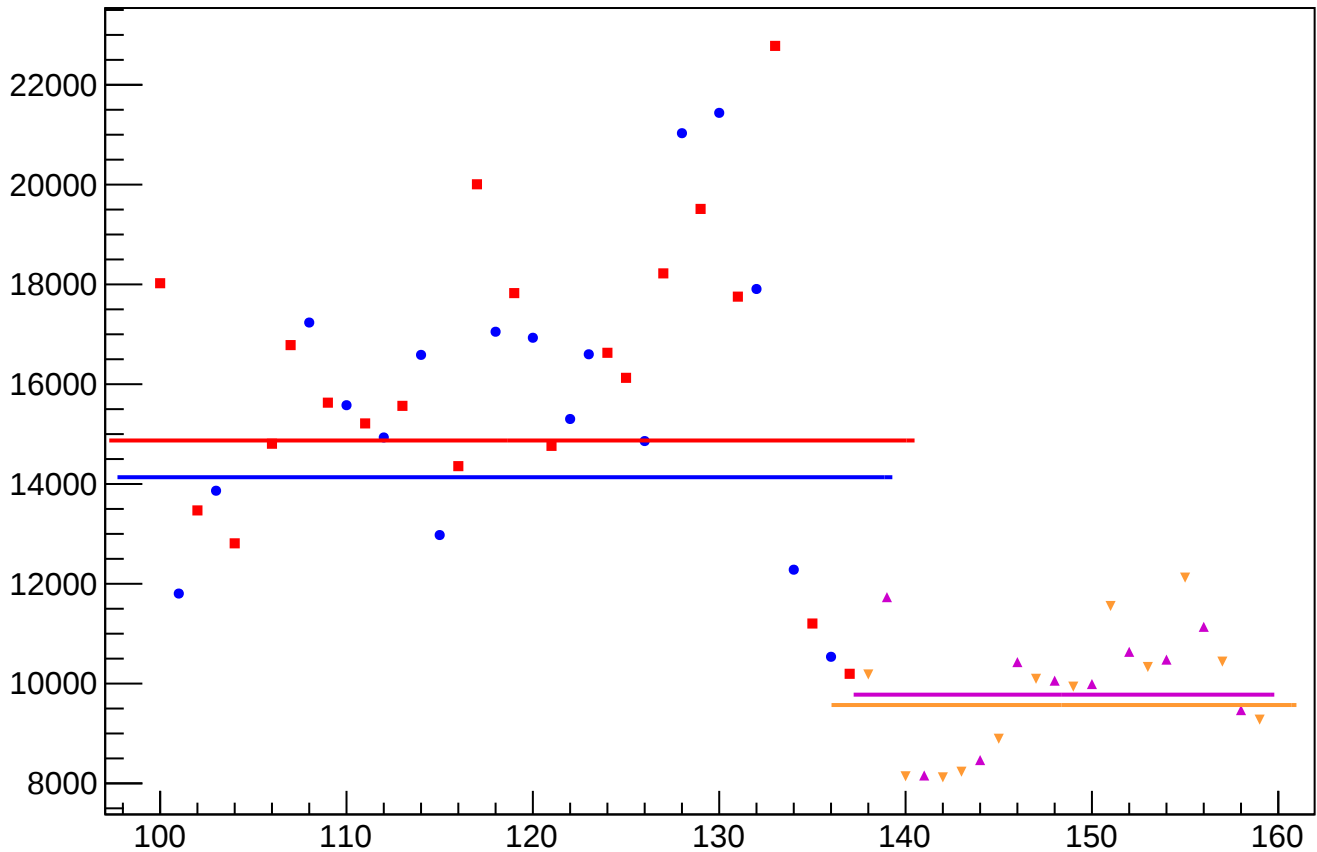
-3.993+/-2.949

χ^2/NDF : 24.7/29

Left In: -1.844+/-3.453

χ^2/NDF : 8.0/9

diff_bpm4aX_rms vs Slug



Right In: 14135.800+/-3.966 χ^2/NDF : 597179.4/16

Left Out: 9570.274+/-2.284 χ^2/NDF : 268842.9/11

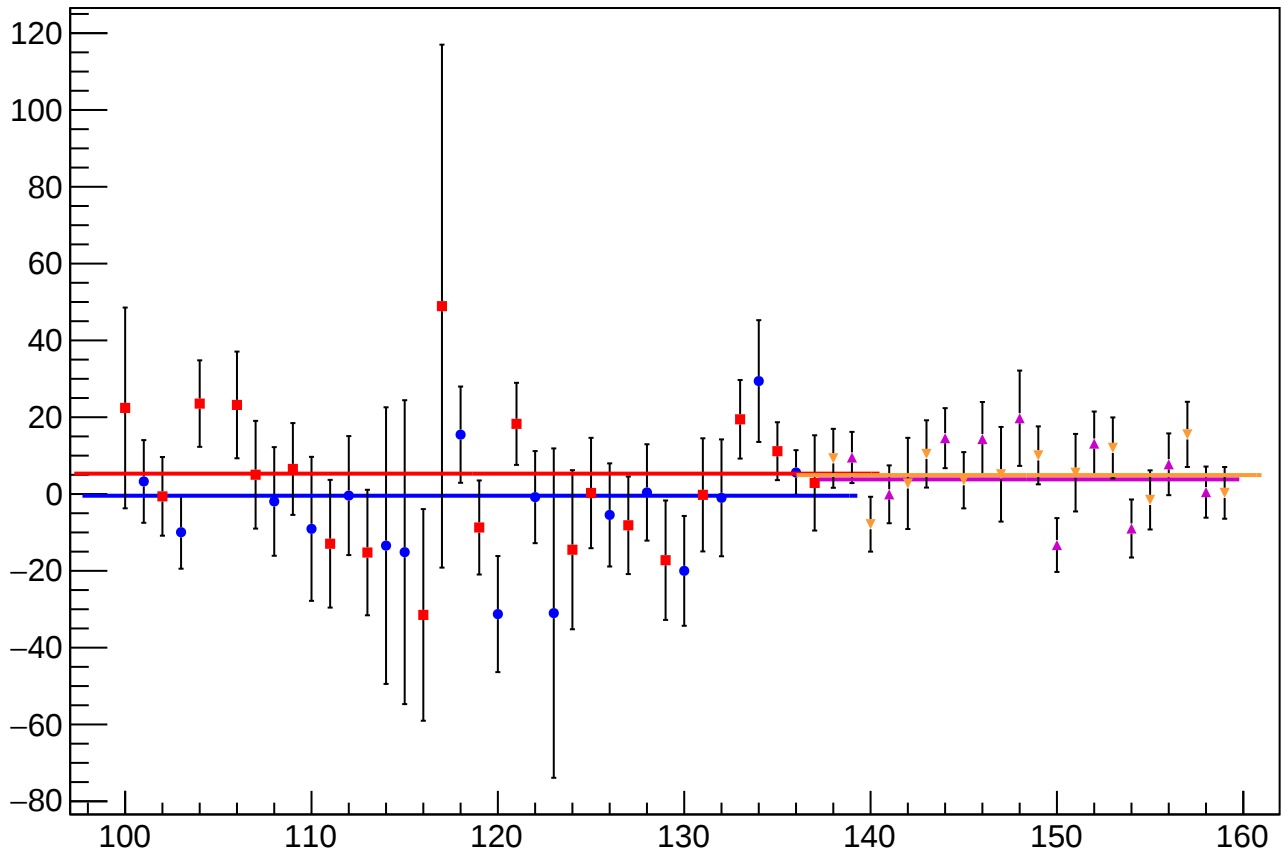
10707.274+/-1.979 χ^2/NDF : 1861342.7/28

Right Out: 14871.940+/-4.007 χ^2/NDF : 477742.9/19

11156.936+/-2.085 χ^2/NDF : 1852274.1/29

Left In: 9777.940+/-2.442 χ^2/NDF : 196138.2/9

diff_bpm4aY_mean vs Slug



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

Left Out: 4.939 ± 2.370 χ^2/NDF : 8.0/11

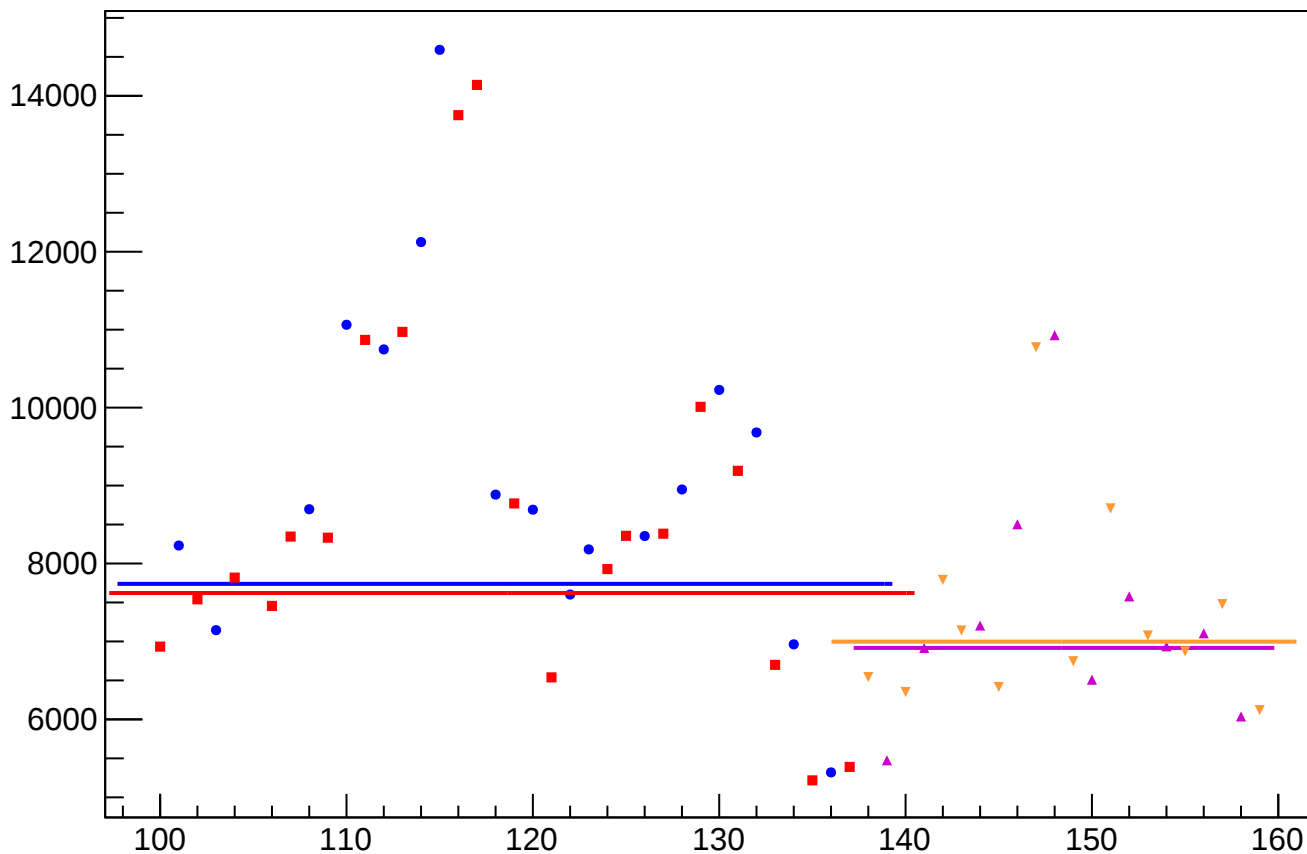
Right Out: 5.310 ± 2.933 χ^2/NDF : 19.8/19

Left In: 3.814 ± 2.469 χ^2/NDF : 16.3/9

2.931 ± 1.876 χ^2/NDF : 24.4/28

4.435 ± 1.889 χ^2/NDF : 36.2/29

diff_bpm4aY_rms vs Slug



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

Left Out: 6997.465 $\pm$ 1.676 χ^2 /NDF:334066.1/11

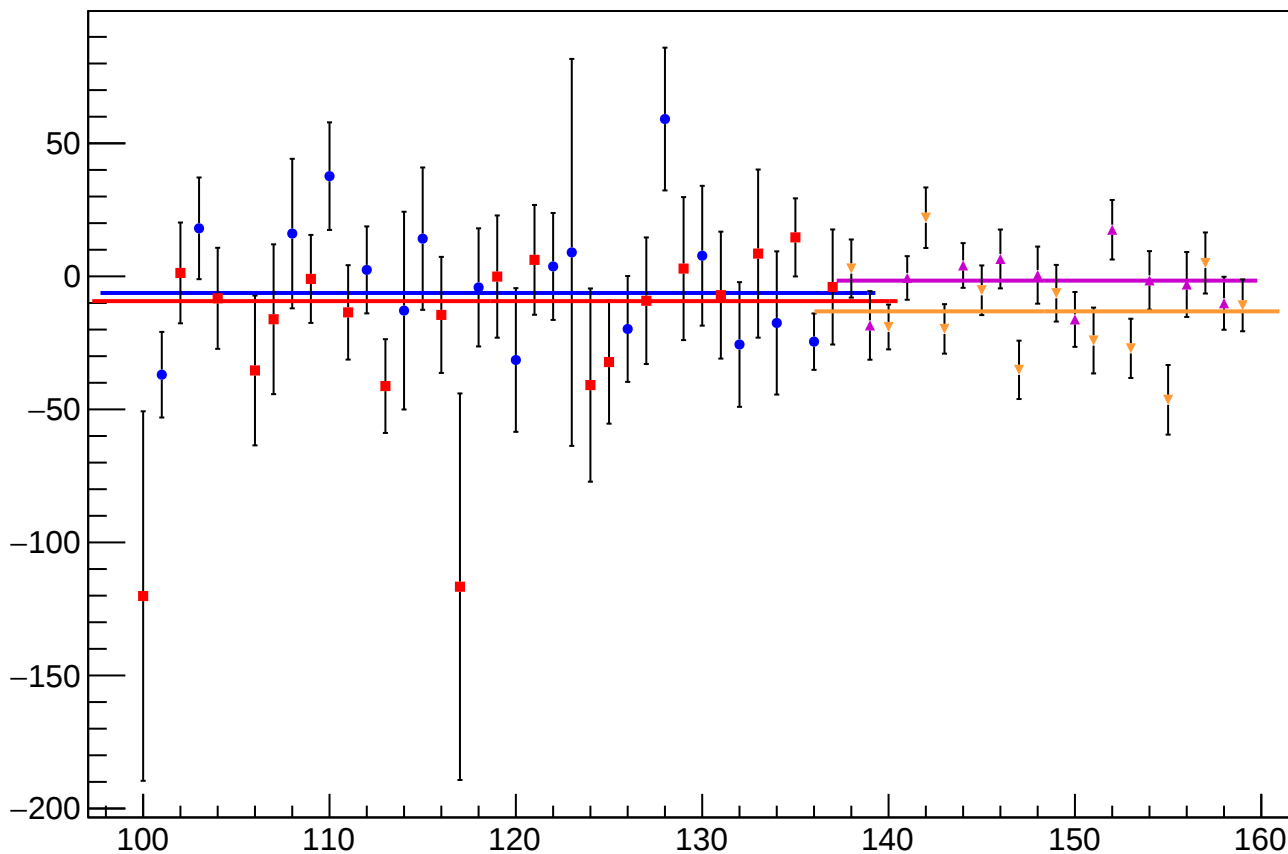
Right Out: 7621.652 $\pm$ 2.074 χ^2 /NDF: 697548.6/19

Left In: 6916.563 $\pm$ 1.746 χ^2 /NDF:414878.1/9

7274.244 $\pm$ 1.327 χ^2 /NDF: 1147956.5/28

7208.994 $\pm$ 1.336 χ^2 /NDF: 1180068.0/29

diff_bpm4eX_mean vs Slug



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

Left Out: -13.157 ± 3.029 χ^2/NDF : 29.2/11

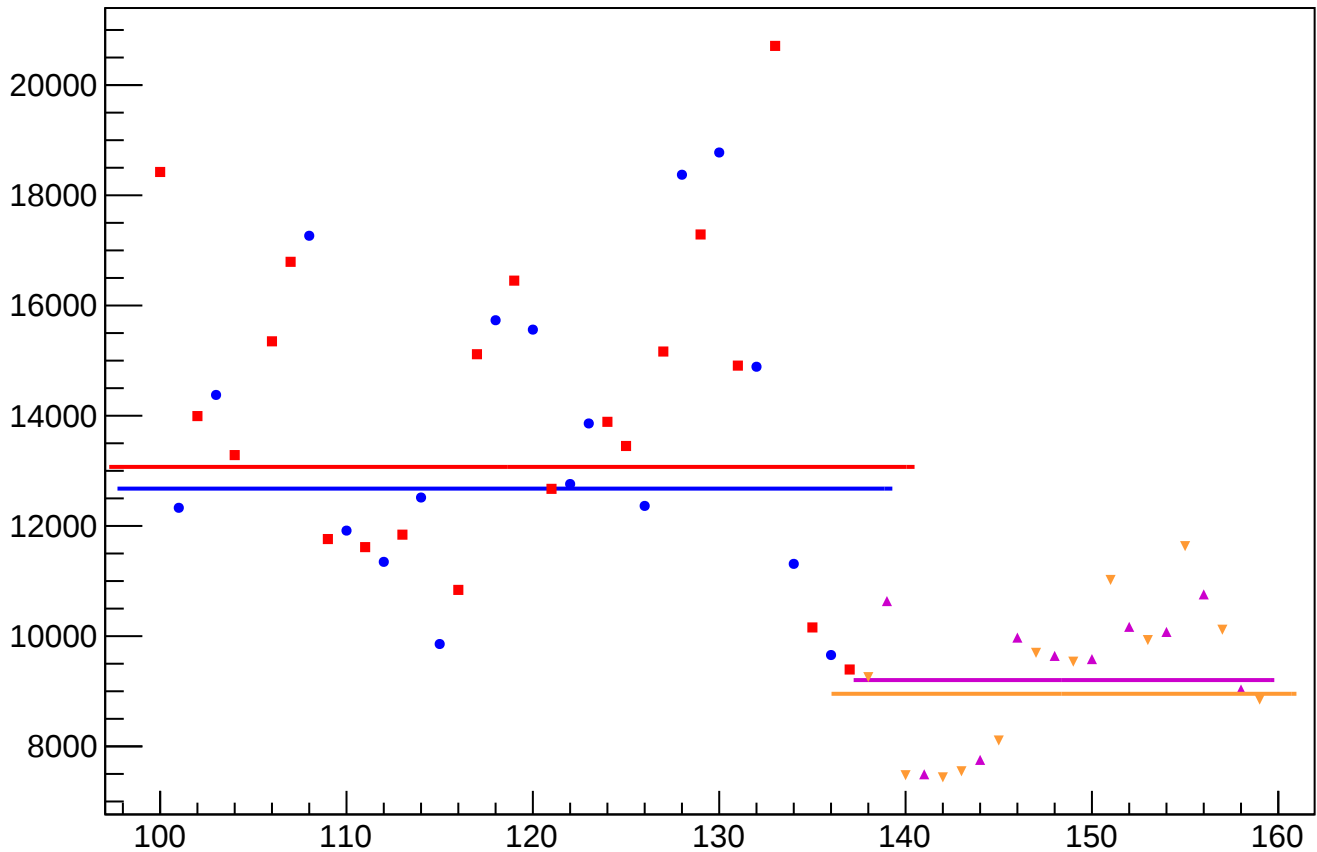
Right Out: -9.310 ± 4.987 χ^2/NDF : 15.3/19

Left In: -1.608 ± 3.255 χ^2/NDF : 8.4/9

-11.310 ± 2.593 χ^2/NDF : 53.8/28

-3.908 ± 2.726 χ^2/NDF : 25.4/29

diff_bpm4eX_rms vs Slug



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

Left Out: 8954.236+/-2.142 χ^2/NDF : 351702.5/11

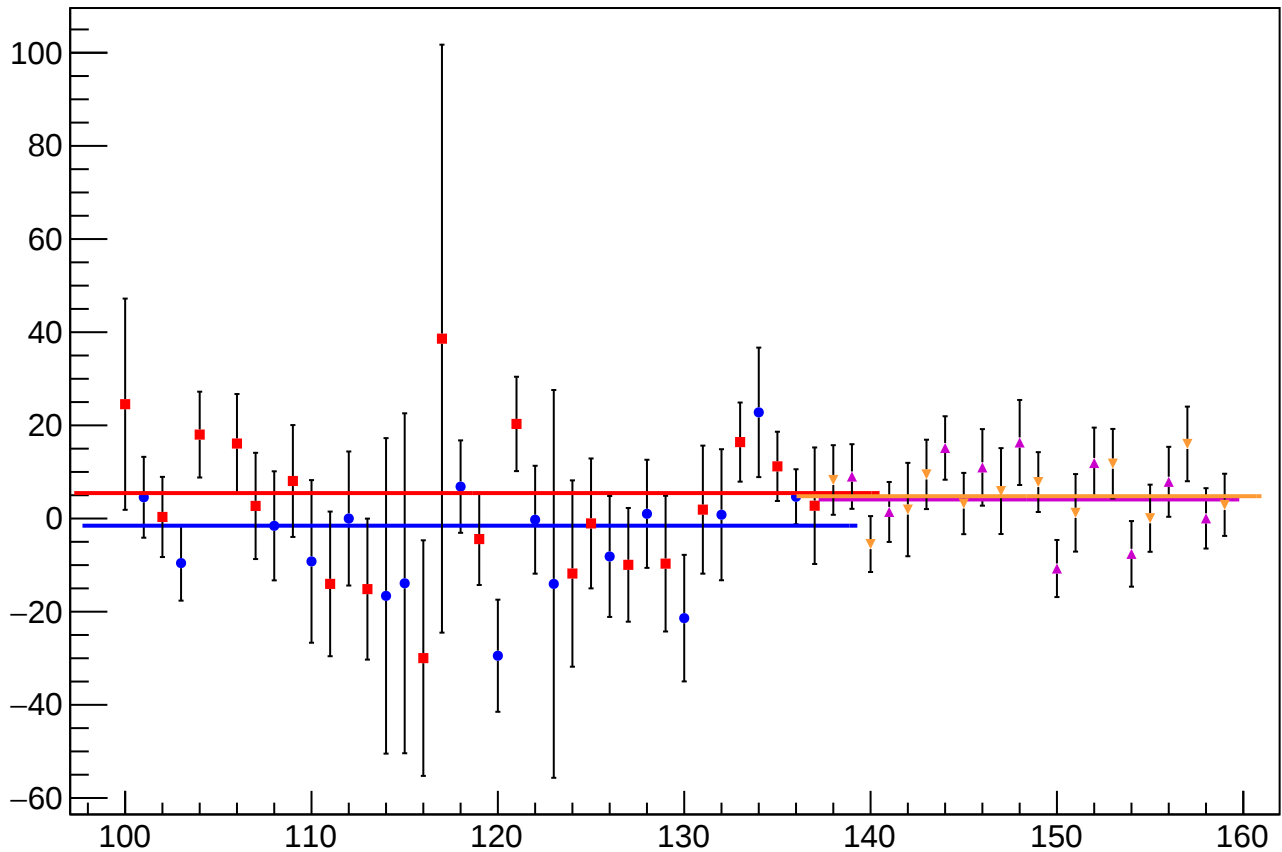
9948.927+/-1.834 χ^2/NDF : 1712441.1/28

Right Out: 13071.522+/-3.527 χ^2/NDF : 499021.5/19

10358.502+/-1.927 χ^2/NDF : 1590377.4/29

Left In: 9203.067+/-2.302 χ^2/NDF : 247524.1/9

diff_bpm4eY_mean vs Slug



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

Left Out: 4.790 ± 2.120 χ^2/NDF : 7.5/11

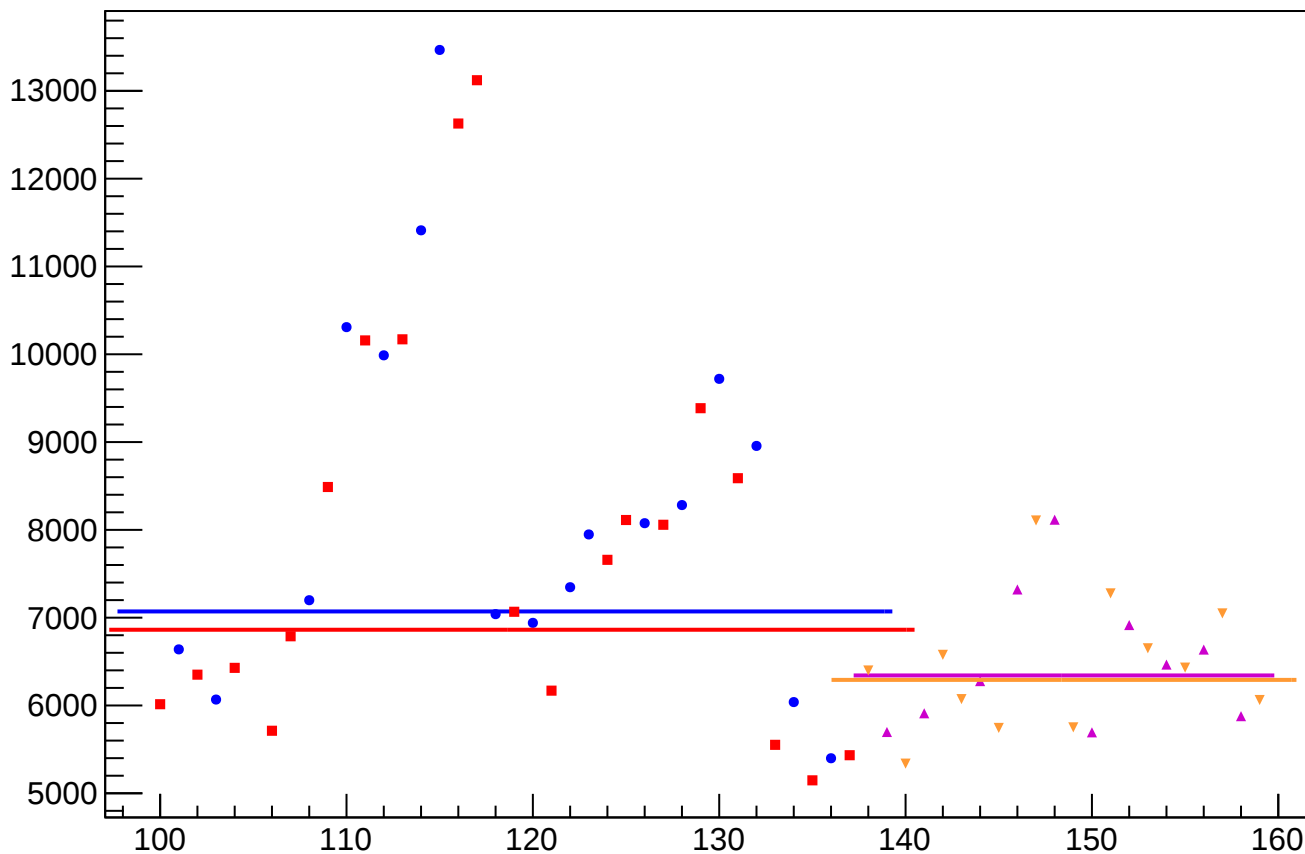
Right Out: 5.463 ± 2.637 χ^2/NDF : 18.9/19

Left In: 4.093 ± 2.242 χ^2/NDF : 16.1/9

2.474 ± 1.688 χ^2/NDF : 25.6/28

4.668 ± 1.708 χ^2/NDF : 35.1/29

diff_bpm4eY_rms vs Slug



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

Left Out: 6291.457+/-1.499 χ^2 /NDF:213489.7/11

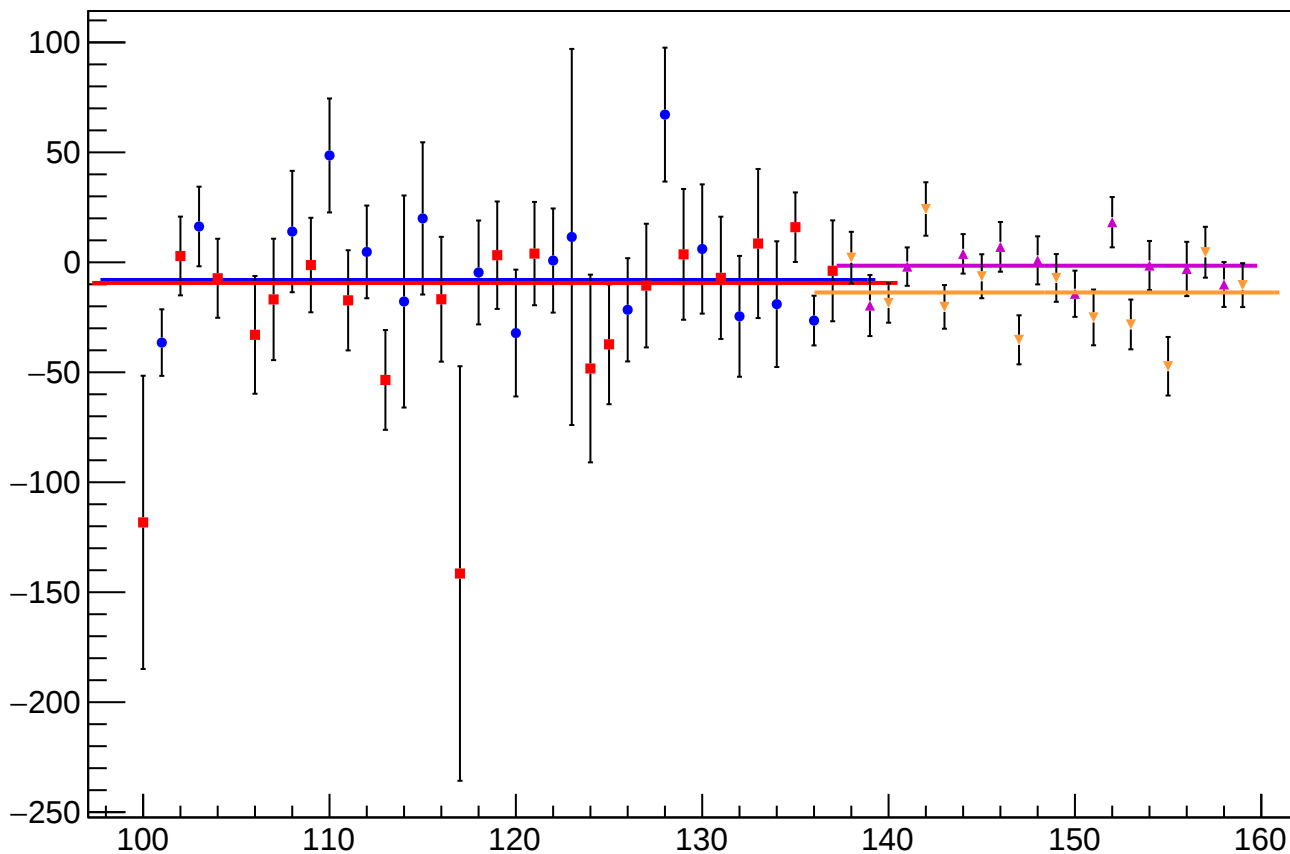
Right Out: 6862.551+/-1.865 χ^2 /NDF: 704099.3/19

Left In: 6342.059+/-1.586 χ^2 /NDF:177998.2/9

6576.797+/-1.194 χ^2 /NDF: 913209.6/28

6560.453+/-1.208 χ^2 /NDF: 927310.8/29

diff_bpm4acX_mean vs Slug



Right In: -8.036 ± 5.497 χ^2/NDF : 22.6/16

Left Out: -13.706 ± 3.157 χ^2/NDF : 28.3/11

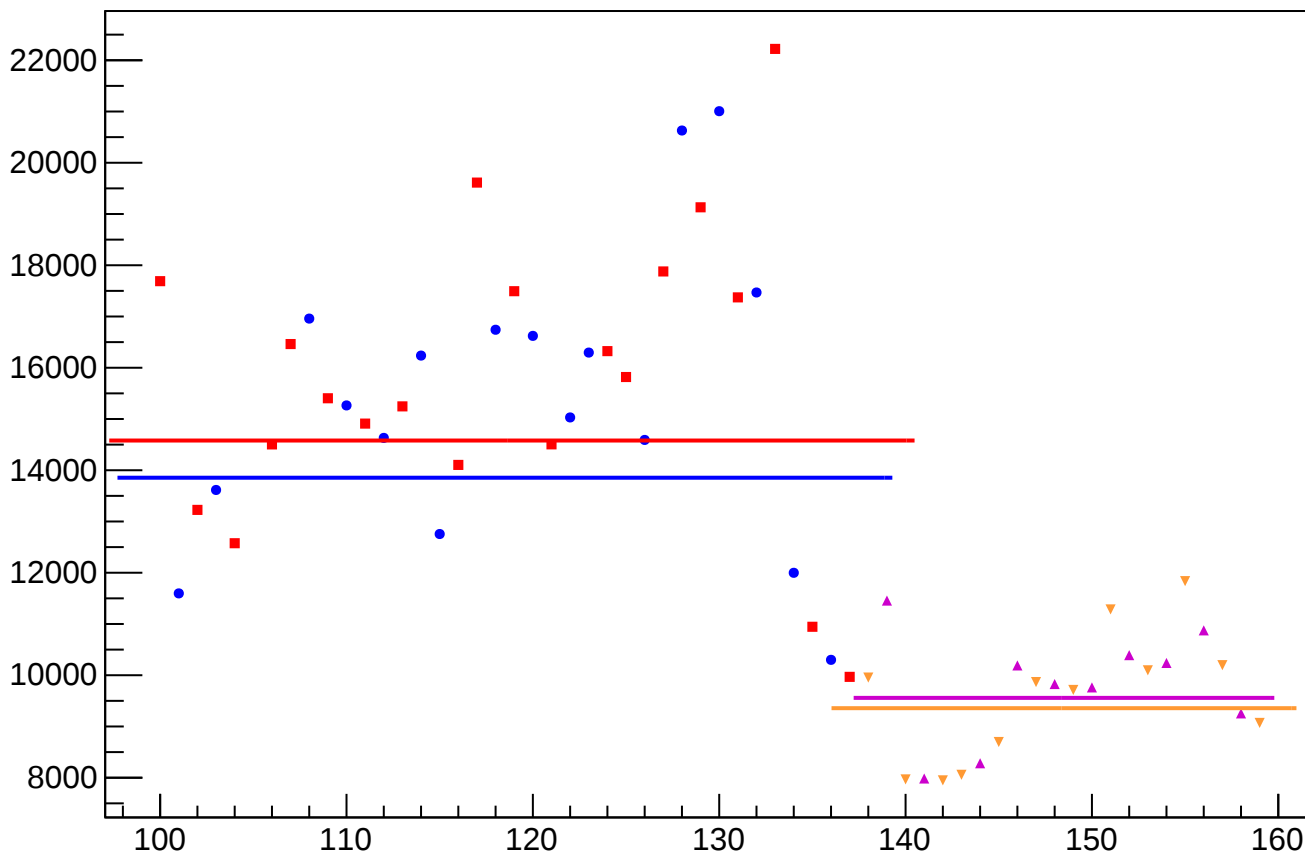
Right Out: -9.368 ± 5.556 χ^2/NDF : 15.7/19

Left In: -1.541 ± 3.375 χ^2/NDF : 7.9/9

-12.300 ± 2.738 χ^2/NDF : 51.7/28

-3.650 ± 2.884 χ^2/NDF : 25.0/29

diff_bpm4acX_rms vs Slug



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

Left Out: 9356.979+/-2.233 χ^2/NDF : 265636.7/11

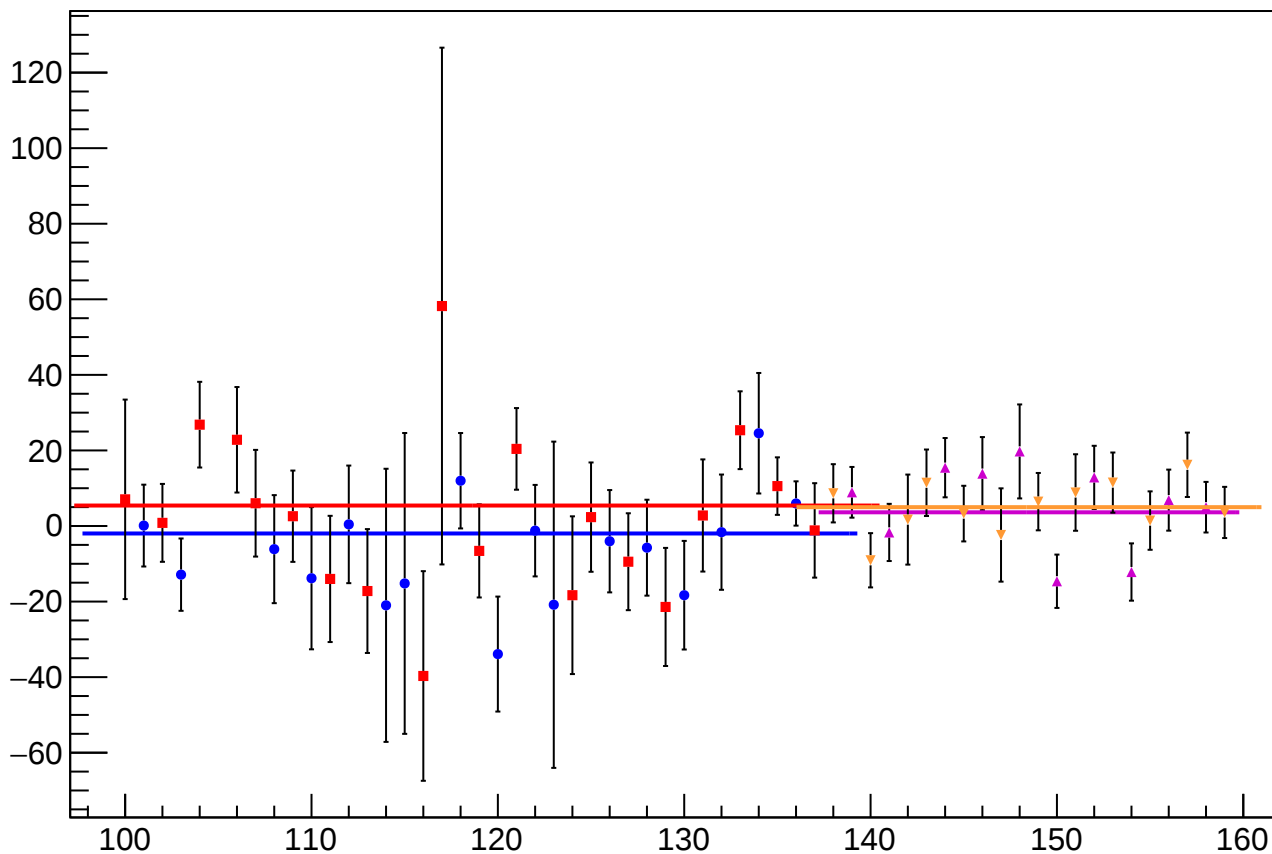
Right Out: 14579.863+/-3.929 χ^2/NDF : 480003.4/19

Left In: 9558.077+/-2.386 χ^2/NDF : 193597.7/9

10472.415+/-1.936 χ^2/NDF : 1873078.4/28

10911.388+/-2.040 χ^2/NDF : 1866966.1/29

diff_bpm4acY_mean vs Slug



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

Left Out: 4.985 ± 2.381 χ^2/NDF : 7.9/11

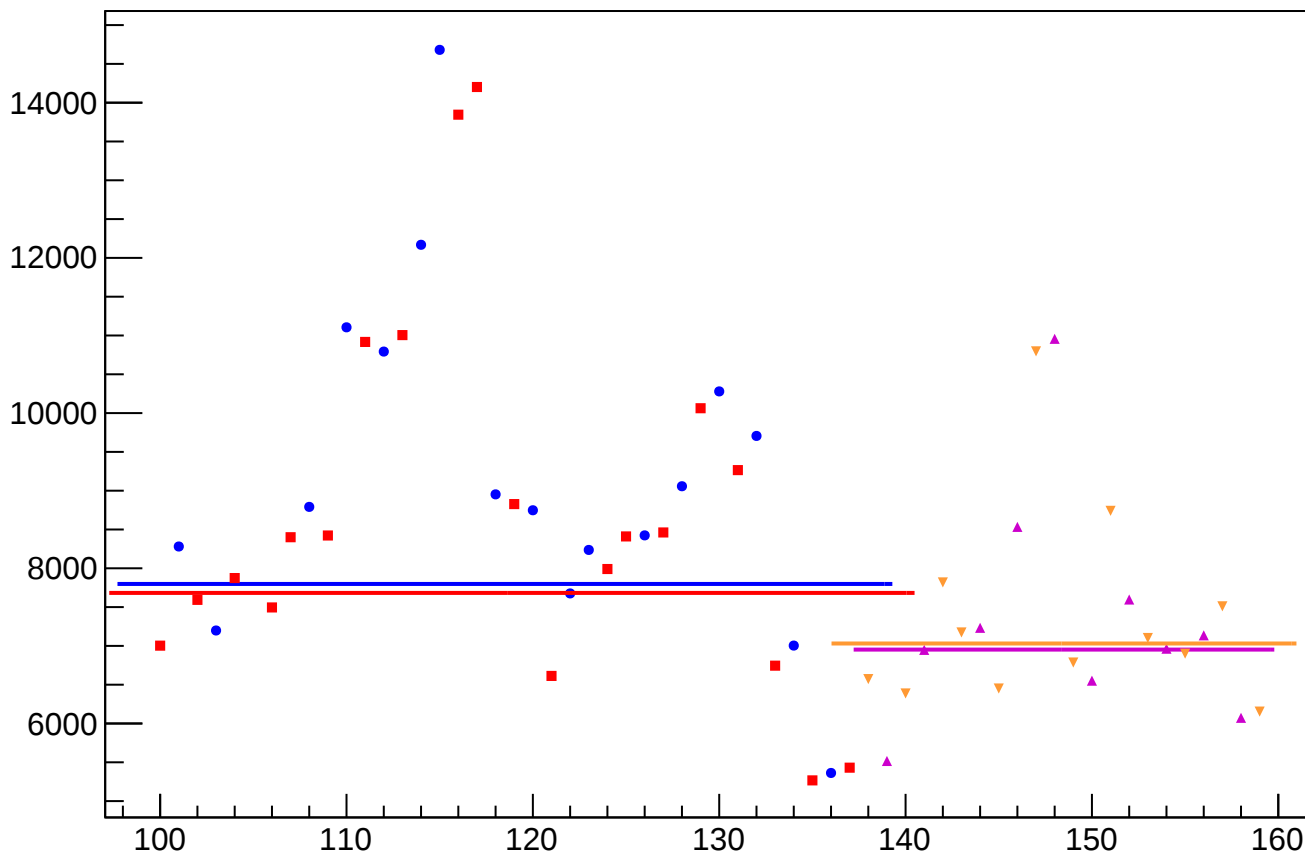
Right Out: 5.417 ± 2.956 χ^2/NDF : 24.9/19

Left In: 3.625 ± 2.481 χ^2/NDF : 18.6/9

2.395 ± 1.887 χ^2/NDF : 25.1/28

4.366 ± 1.900 χ^2/NDF : 43.7/29

diff_bpm4acY_rms vs Slug



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

Left Out: 7030.907+/-1.684 χ^2/NDF : 330465.8/11

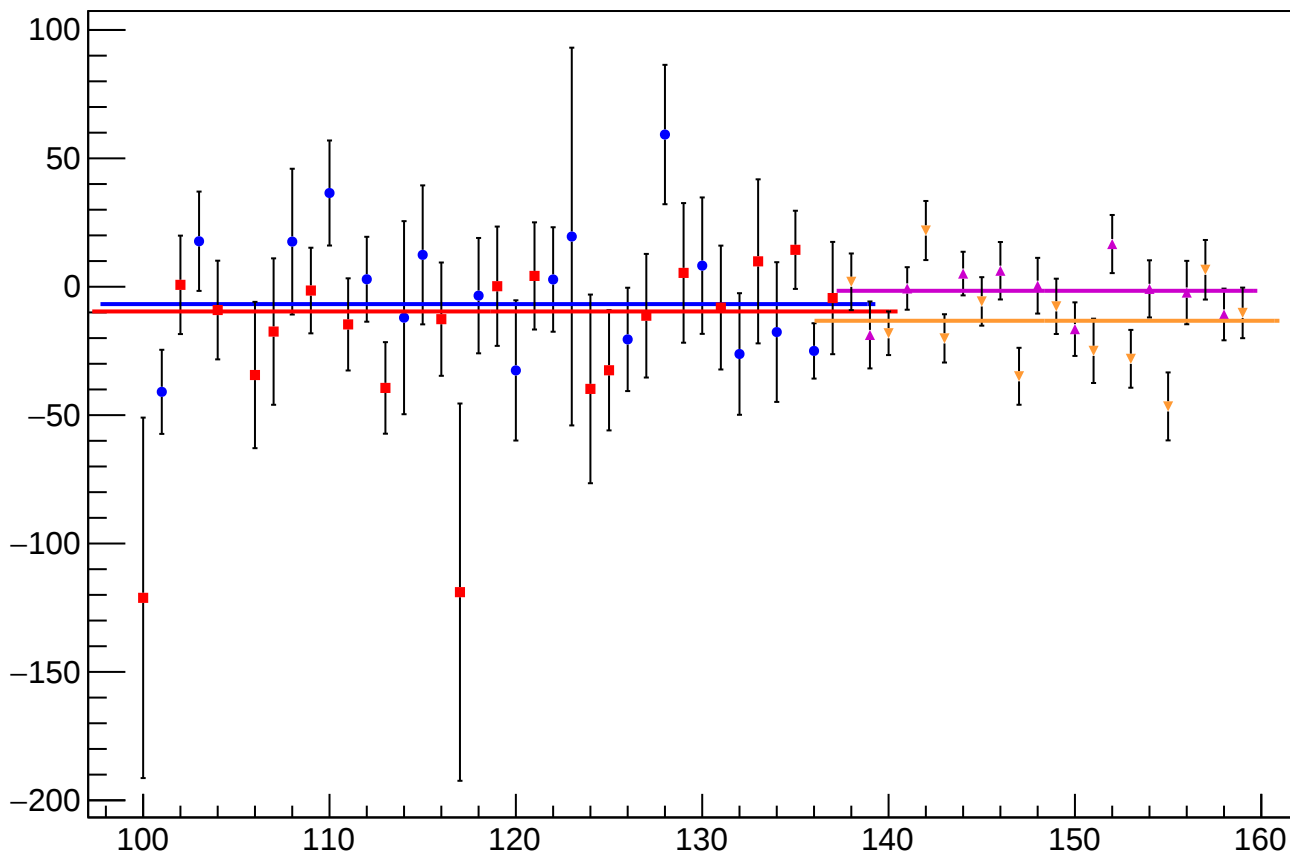
Right Out: 7682.786+/-2.090 χ^2/NDF : 690901.2/19

Left In: 6952.354+/-1.754 χ^2/NDF : 408691.4/9

7316.336+/-1.334 χ^2/NDF : 1144014.9/28

7254.295+/-1.344 χ^2/NDF : 1171243.1/29

diff_bpm4ecX_mean vs Slug



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

Left Out: -13.252 ± 3.063 χ^2/NDF : 28.8/11

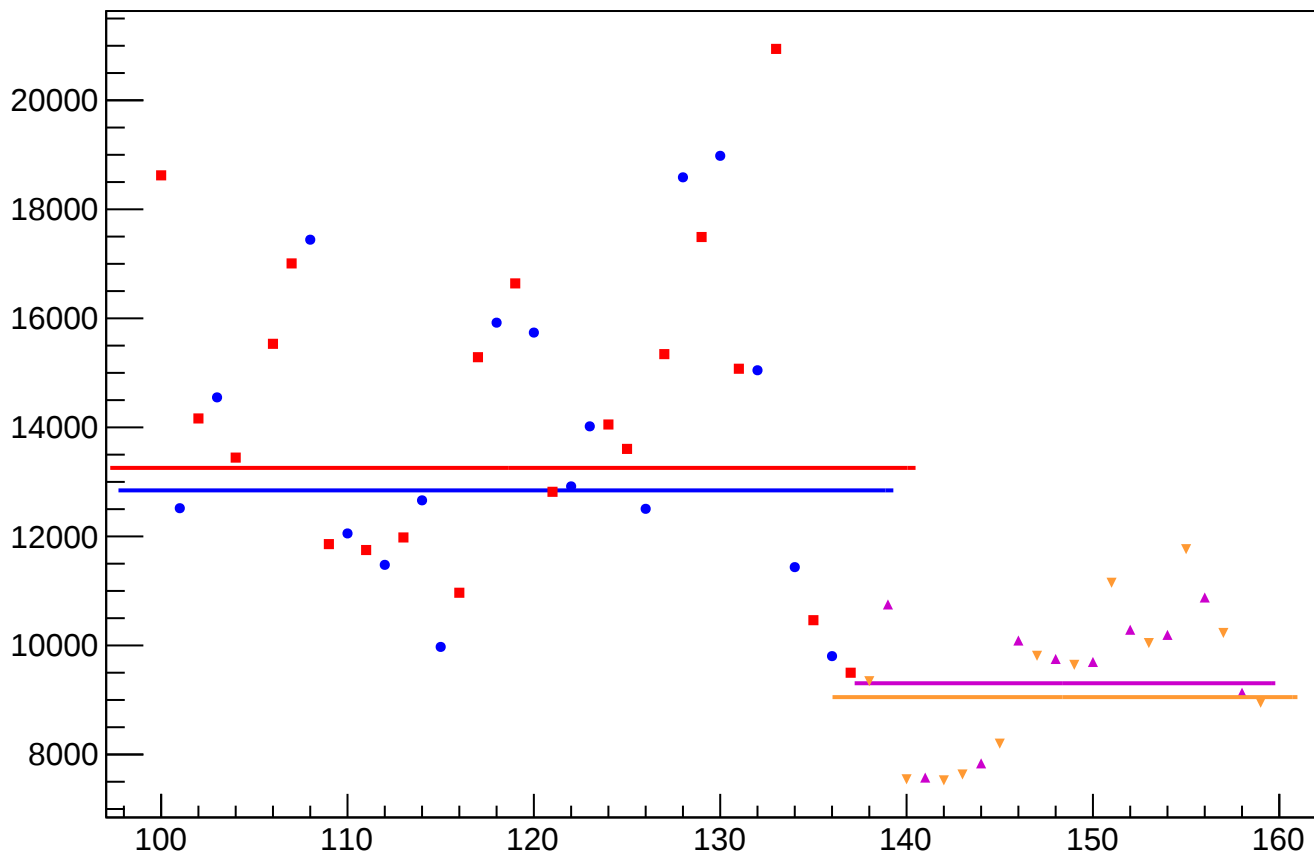
Right Out: -9.622 ± 5.058 χ^2/NDF : 14.5/19

Left In: -1.580 ± 3.292 χ^2/NDF : 8.4/9

-11.523 ± 2.623 χ^2/NDF : 53.7/28

-3.972 ± 2.759 χ^2/NDF : 24.6/29

diff_bpm4ecX_rms vs Slug



Right In: 12844.321+/-3.595 χ^2/NDF : 547271.0/16

Left Out: 9052.117+/-2.166 χ^2/NDF : 353304.2/11

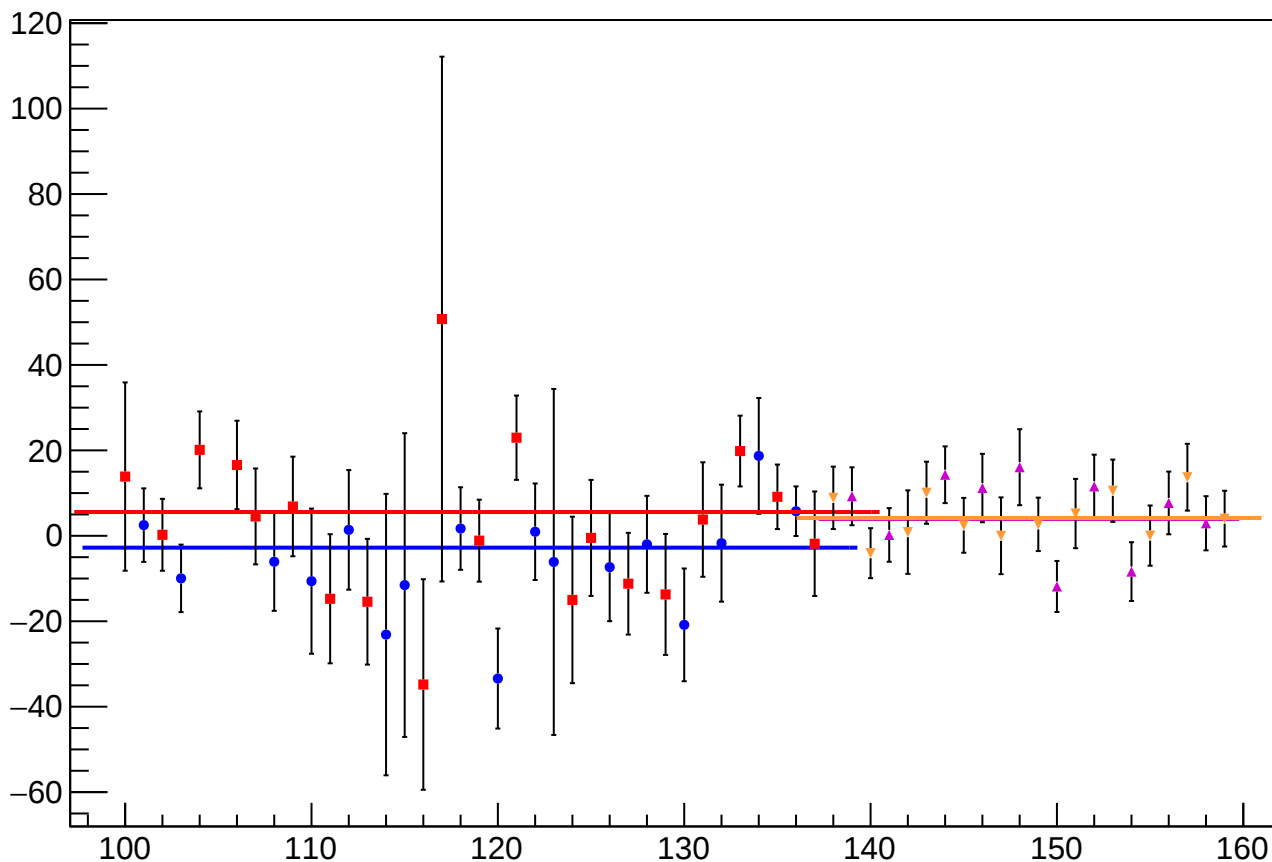
Right Out: 13256.926+/-3.577 χ^2/NDF : 487016.8/19

Left In: 9306.563+/-2.327 χ^2/NDF : 248550.4/9

10061.641+/-1.855 χ^2/NDF : 1716884.5/28

10481.648+/-1.951 χ^2/NDF : 1592487.7/29

diff_bpm4ecY_mean vs Slug



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

Left Out: 4.169 ± 2.069 χ^2/NDF : 6.1/11

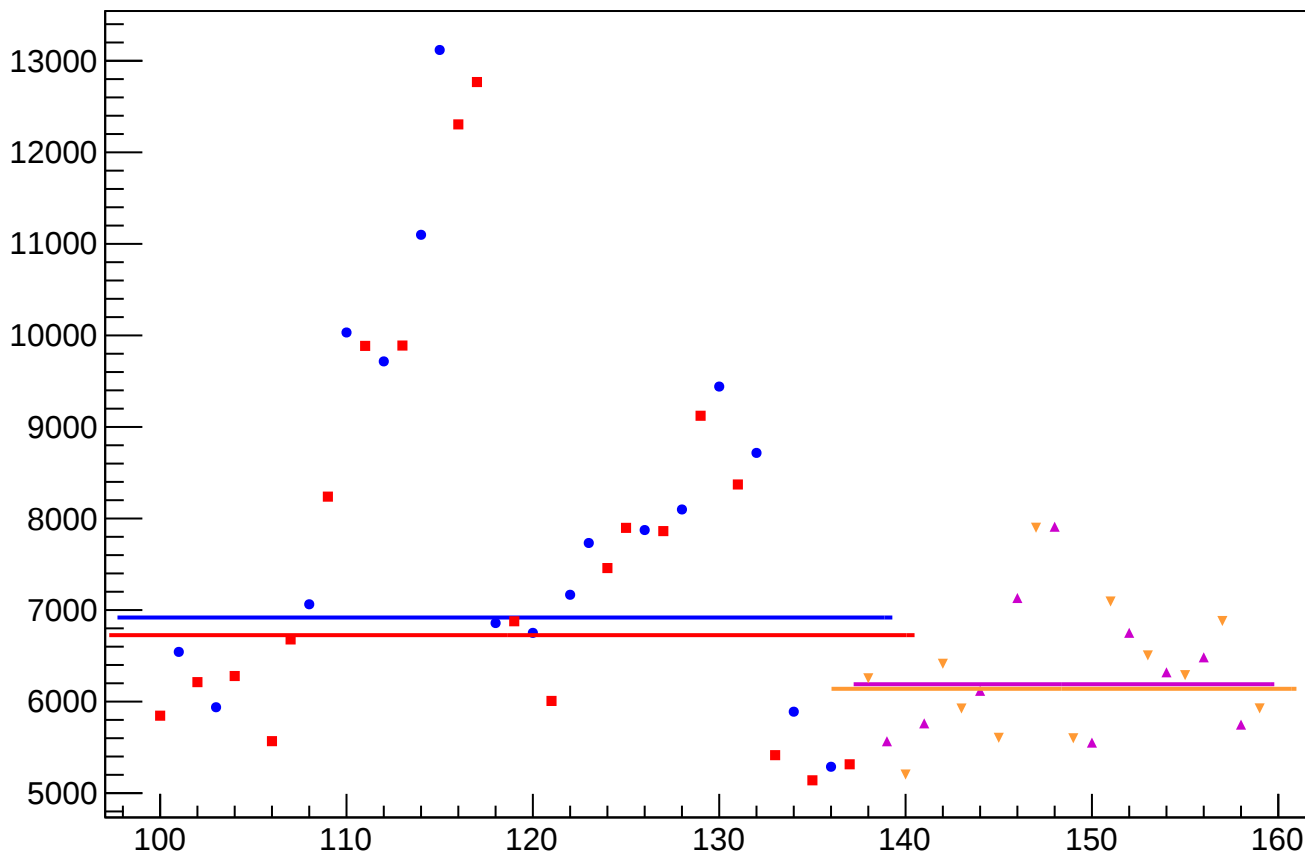
Right Out: 5.571 ± 2.585 χ^2/NDF : 23.7/19

Left In: 3.952 ± 2.188 χ^2/NDF : 17.6/9

1.638 ± 1.649 χ^2/NDF : 26.1/28

4.628 ± 1.670 χ^2/NDF : 41.5/29

diff_bpm4ecY_rms vs Slug



Right In: 6918.477 $\pm$ 1.932 χ^2 /NDF: 587039.3/16

Left Out: 6139.710 $\pm$ 1.463 χ^2 /NDF:214234.1/11

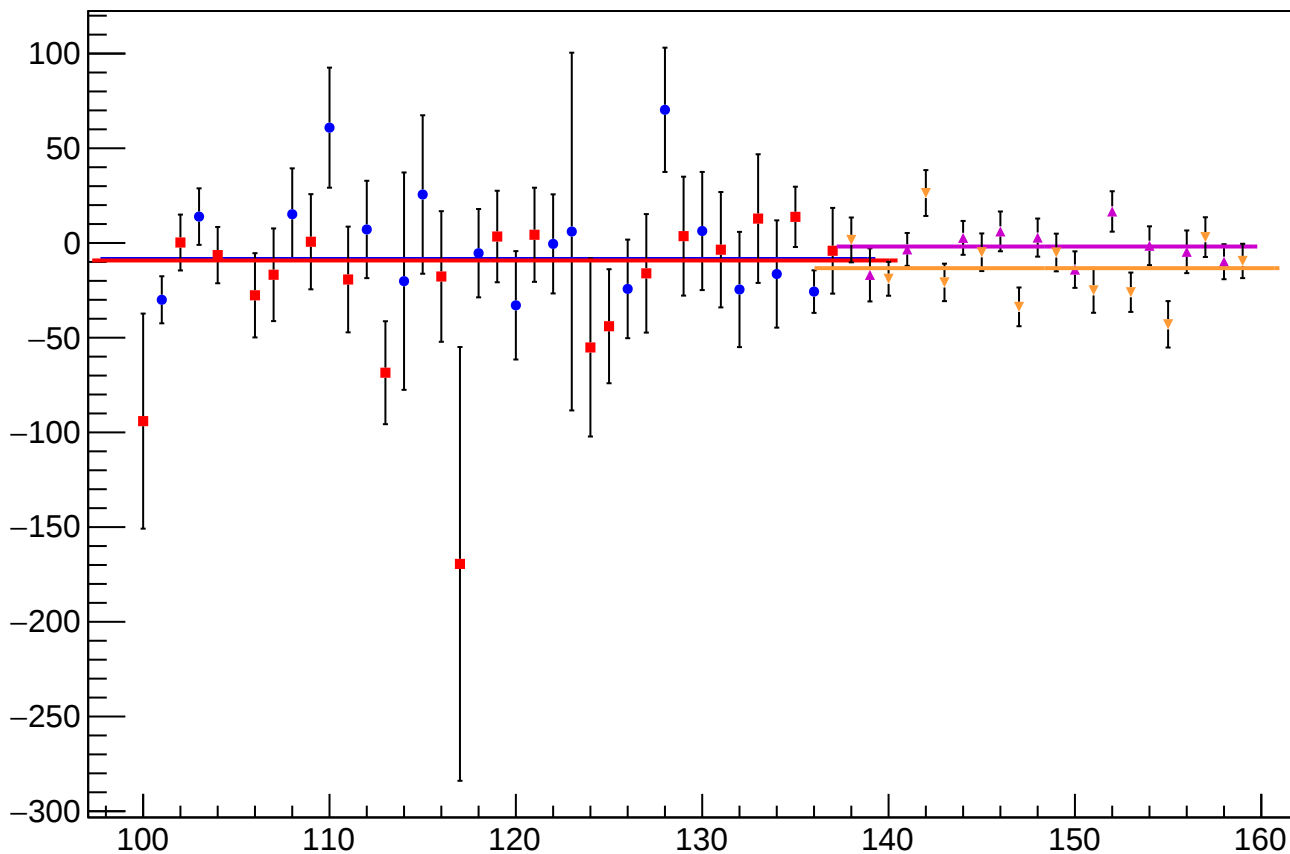
Right Out: 6725.745 $\pm$ 1.828 χ^2 /NDF: 675399.9/19

Left In: 6189.614 $\pm$ 1.547 χ^2 /NDF:176776.0/9

6423.620 $\pm$ 1.166 χ^2 /NDF: 904564.8/28

6413.426 $\pm$ 1.181 χ^2 /NDF: 902286.5/29

diff_bpm1X_mean vs Slug



Right In: -8.448 ± 5.393 χ^2/NDF : 22.0/16

Left Out: -13.292 ± 3.005 χ^2/NDF : 29.6/11

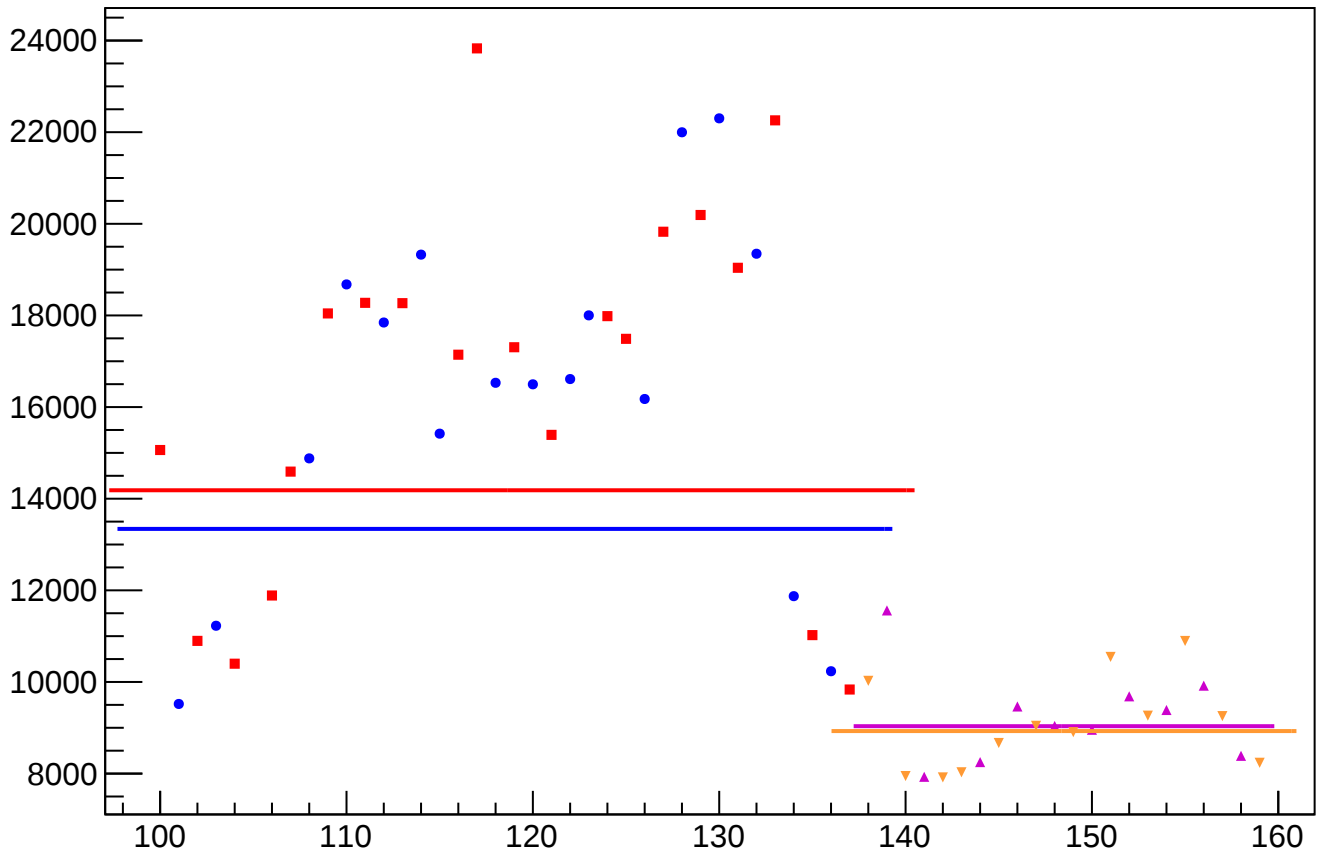
Right Out: -9.224 ± 5.502 χ^2/NDF : 16.2/19

Left In: -1.873 ± 3.186 χ^2/NDF : 7.7/9

-12.145 ± 2.625 χ^2/NDF : 52.2/28

-3.719 ± 2.757 χ^2/NDF : 25.2/29

diff_bpm1X_rms vs Slug



Right In: 13340.948+/-3.813 χ^2/NDF : 1044569.8/16

Left Out: 8928.292+/-2.125 χ^2/NDF :177862.7/11

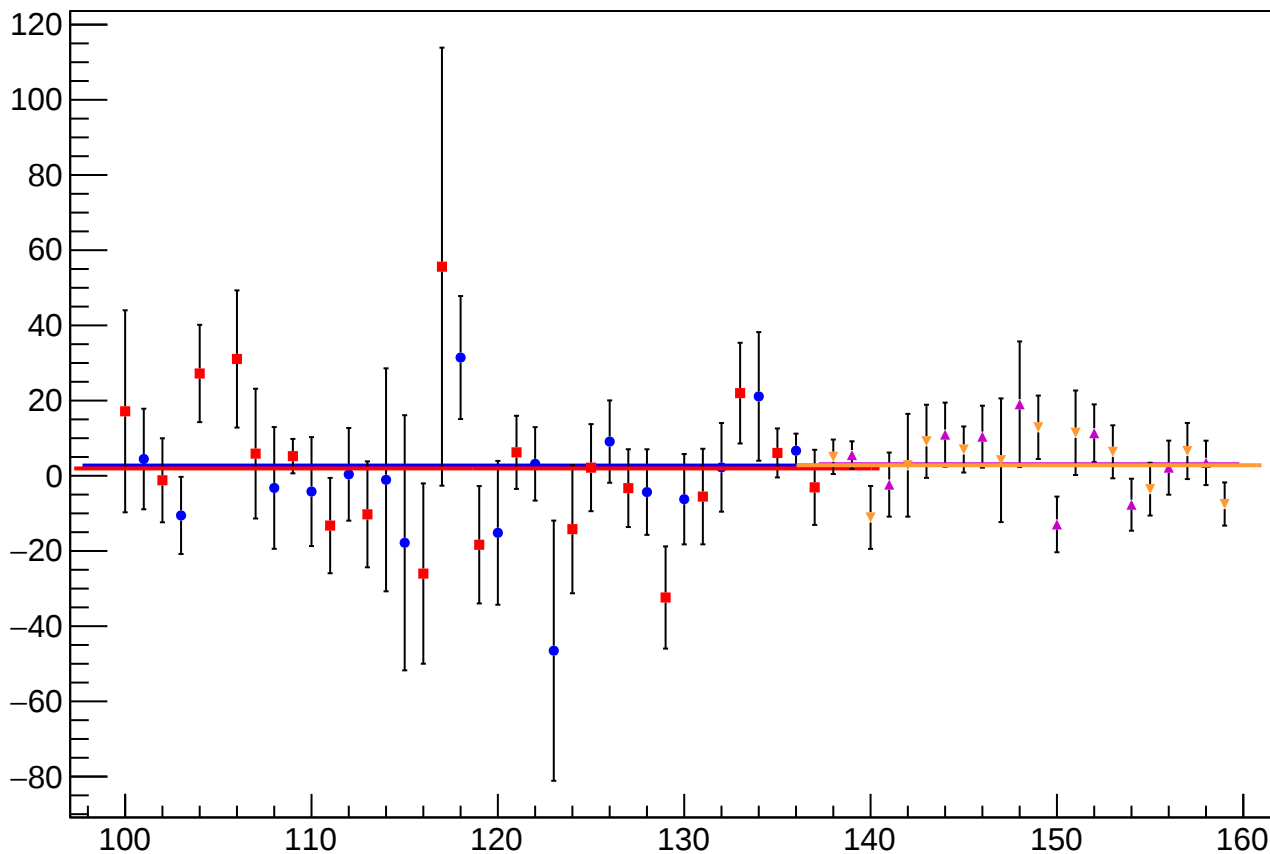
9973.551+/-1.856 χ^2/NDF : 2244256.3/28

Right Out: 14184.146+/-3.891 χ^2/NDF : 946010.4/19

10327.998+/-1.950 χ^2/NDF : 2406157.2/29

Left In: 9034.800+/-2.253 χ^2/NDF :148266.5/9

diff_bpm1Y_mean vs Slug



Right In: 2.717 ± 2.752 χ^2/NDF : 11.6/16

Left Out: 2.810 ± 2.137 χ^2/NDF : 10.5/11

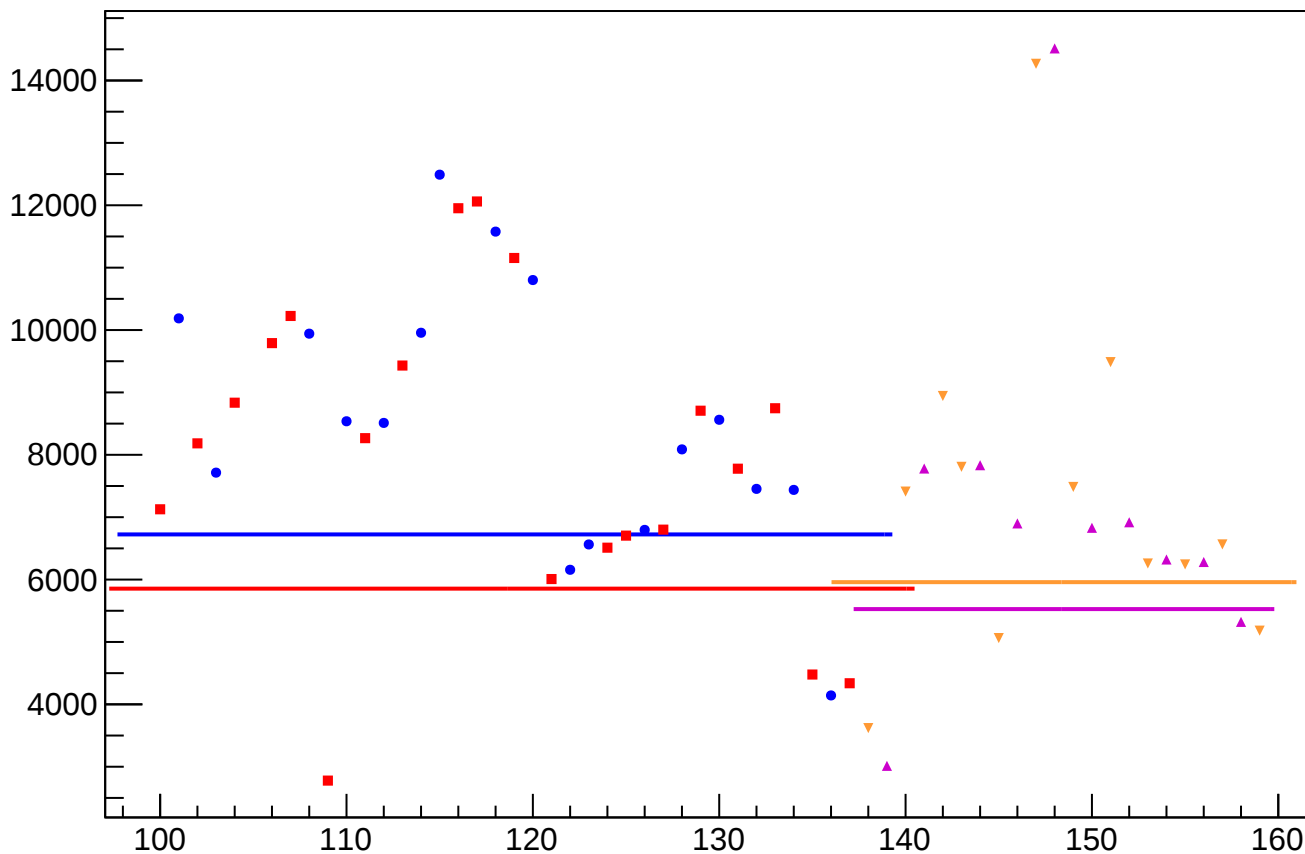
Right Out: 1.955 ± 2.437 χ^2/NDF : 24.4/19

Left In: 3.063 ± 2.108 χ^2/NDF : 11.7/9

2.775 ± 1.688 χ^2/NDF : 22.1/28

2.589 ± 1.594 χ^2/NDF : 36.2/29

diff_bpm1Y_rms vs Slug



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

Left Out: 5958.732+/-1.511 χ^2/NDF : 1622164.7/11

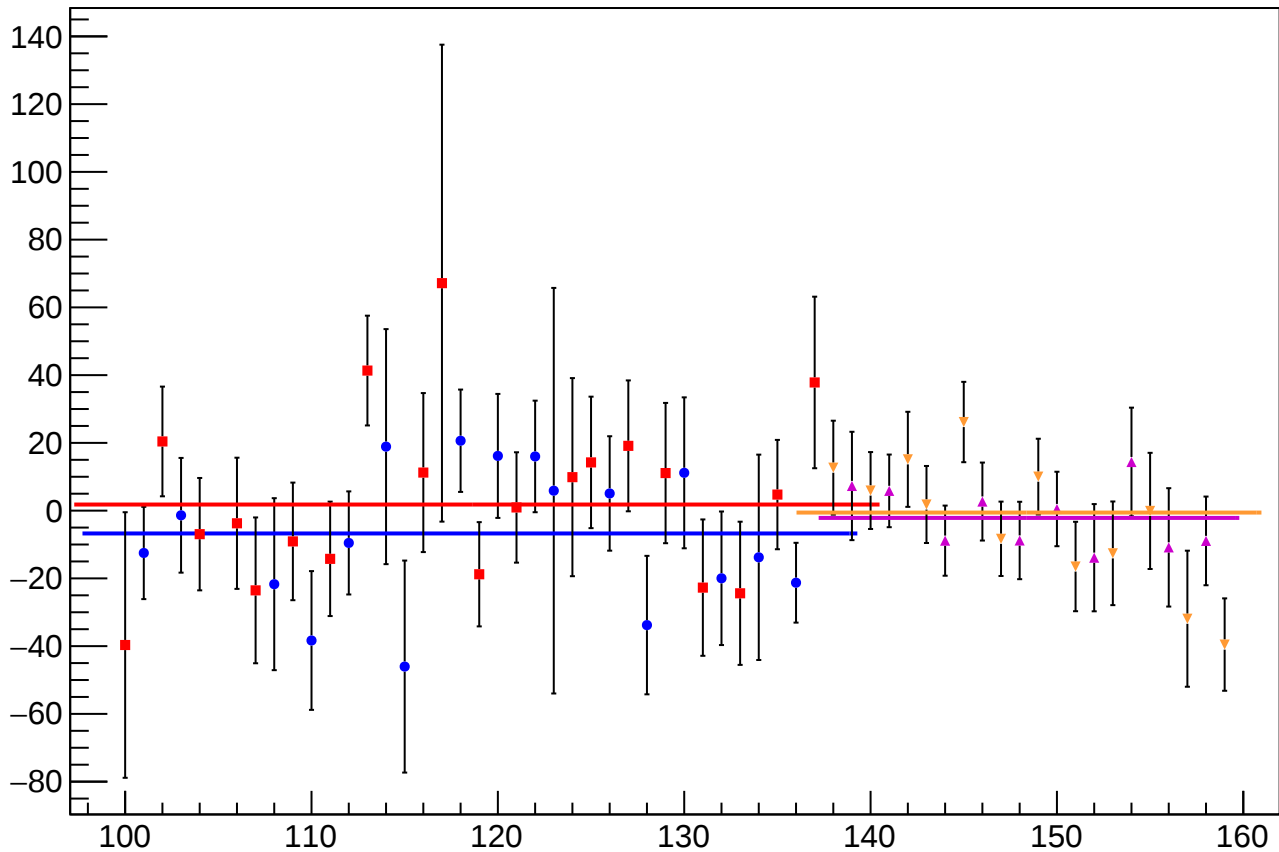
Right Out: 5854.708+/-1.723 χ^2/NDF : 2299964.9/19

Left In: 5526.899+/-1.491 χ^2/NDF : 2044540.2/9

6246.574+/-1.194 χ^2/NDF : 3110676.0/28

5667.246+/-1.127 χ^2/NDF : 4365203.6/29

diff_bpm11X_mean vs Slug



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

Left Out: -0.569+/-3.768 χ^2/NDF : 21.7/11

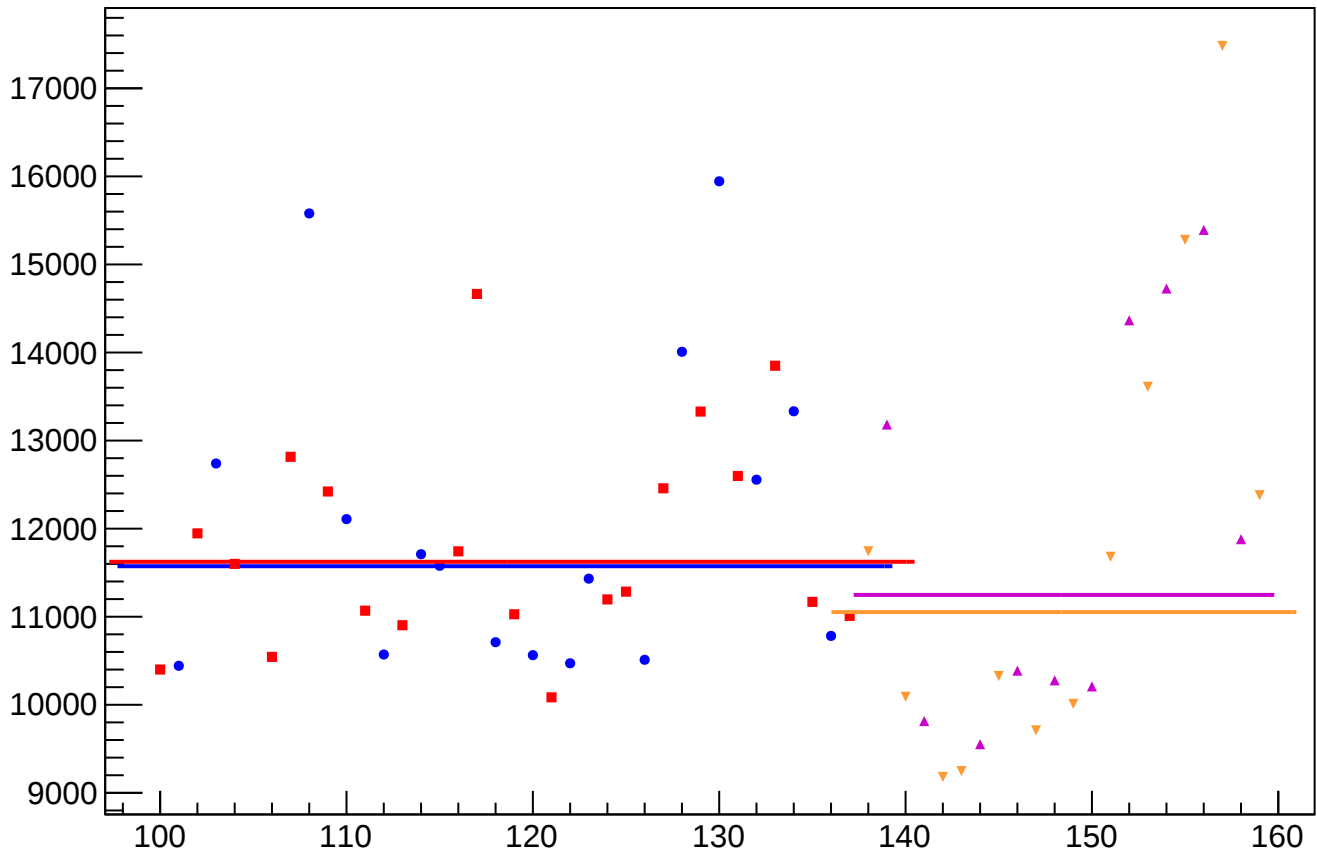
Right Out: 1.802+/-4.364 χ^2/NDF : 20.8/19

Left In: -2.148+/-4.003 χ^2/NDF : 4.0/9

-3.102+/-2.892 χ^2/NDF : 39.7/28

-0.343+/-2.950 χ^2/NDF : 25.3/29

diff_bpm11X_rms vs Slug



Right In: 11573.490 $\pm$ 3.191 χ^2 /NDF: 238734.7/16

Left Out: 11052.821 $\pm$ 2.664 χ^2 /NDF: 565913.8/11

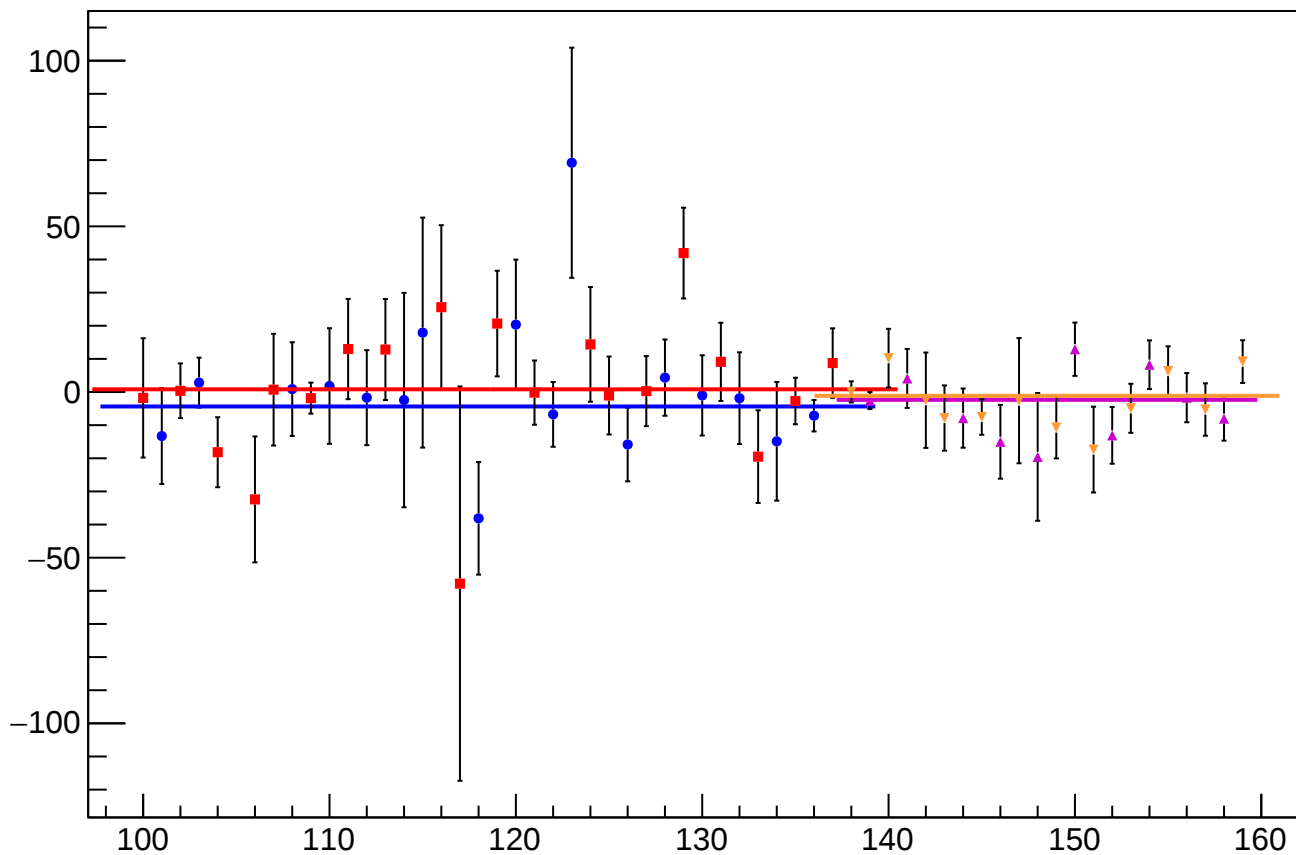
Right Out: 11623.951 $\pm$ 3.086 χ^2 /NDF: 98055.0/19

Left In: 11247.596 $\pm$ 2.830 χ^2 /NDF: 450901.9/9

11266.665 $\pm$ 2.045 χ^2 /NDF: 820336.6/28

11419.554 $\pm$ 2.086 χ^2 /NDF: 557035.6/29

diff_bpm11Y_mean vs Slug



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

Left Out: -1.147 ± 1.968 χ^2/NDF : 10.4/11

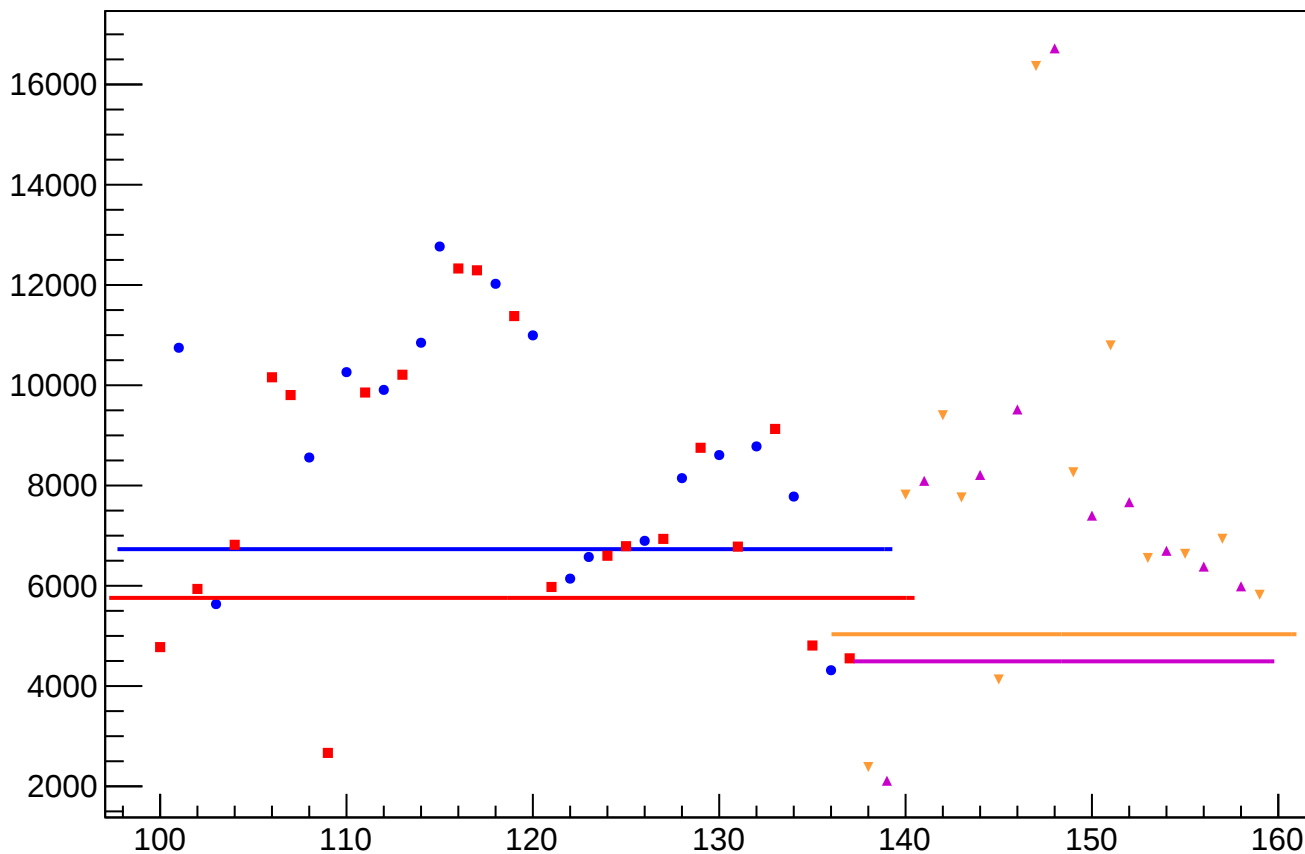
Right Out: 0.816 ± 2.424 χ^2/NDF : 24.5/19

Left In: -2.361 ± 1.900 χ^2/NDF : 11.0/9

-2.221 ± 1.605 χ^2/NDF : 25.8/28

-1.151 ± 1.496 χ^2/NDF : 36.6/29

diff_bpm11Y_rms vs Slug



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

Left Out: 5033.626+/-1.391 χ^2/NDF : 3659841.3/11

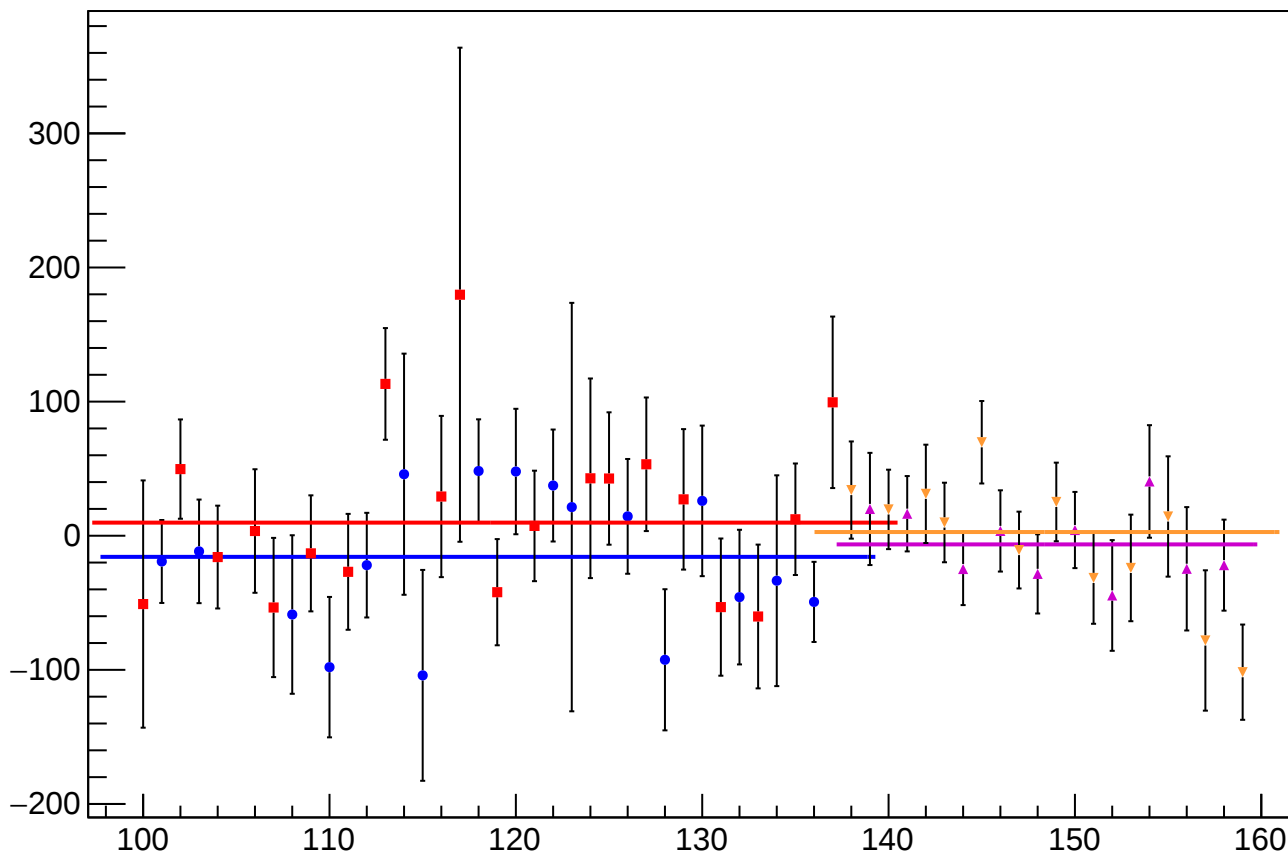
Right Out: 5758.506+/-1.714 χ^2/NDF : 2186395.0/19

Left In: 4492.831+/-1.344 χ^2/NDF : 4563542.9/9

5601.094+/-1.135 χ^2/NDF : 5602532.9/28

4974.640+/-1.058 χ^2/NDF : 7087615.0/29

diff_bpm12X_mean vs Slug



Right In: -15.751 ± 11.207 χ^2/NDF : 15.9/16

Left Out: 2.761 ± 9.820 χ^2/NDF : 19.8/11

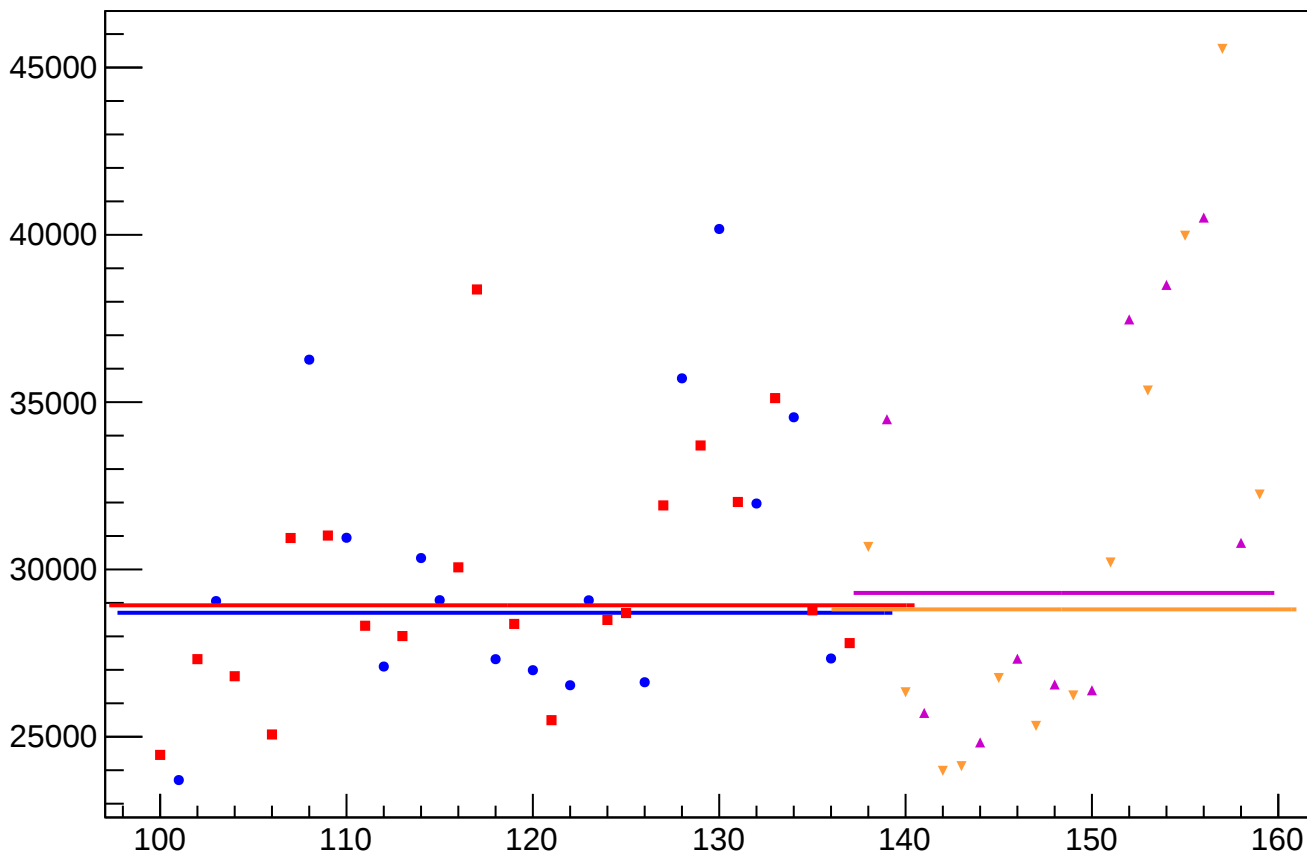
Right Out: 9.773 ± 10.870 χ^2/NDF : 20.1/19

Left In: -6.457 ± 10.431 χ^2/NDF : 4.8/9

-5.279 ± 7.386 χ^2/NDF : 37.3/28

1.323 ± 7.526 χ^2/NDF : 26.1/29

diff_bpm12X_rms vs Slug



Right In: 28705.569+/-7.925 χ^2/NDF : 250992.5/16

Left Out: 28806.304+/-6.944 χ^2/NDF : 562830.8/11

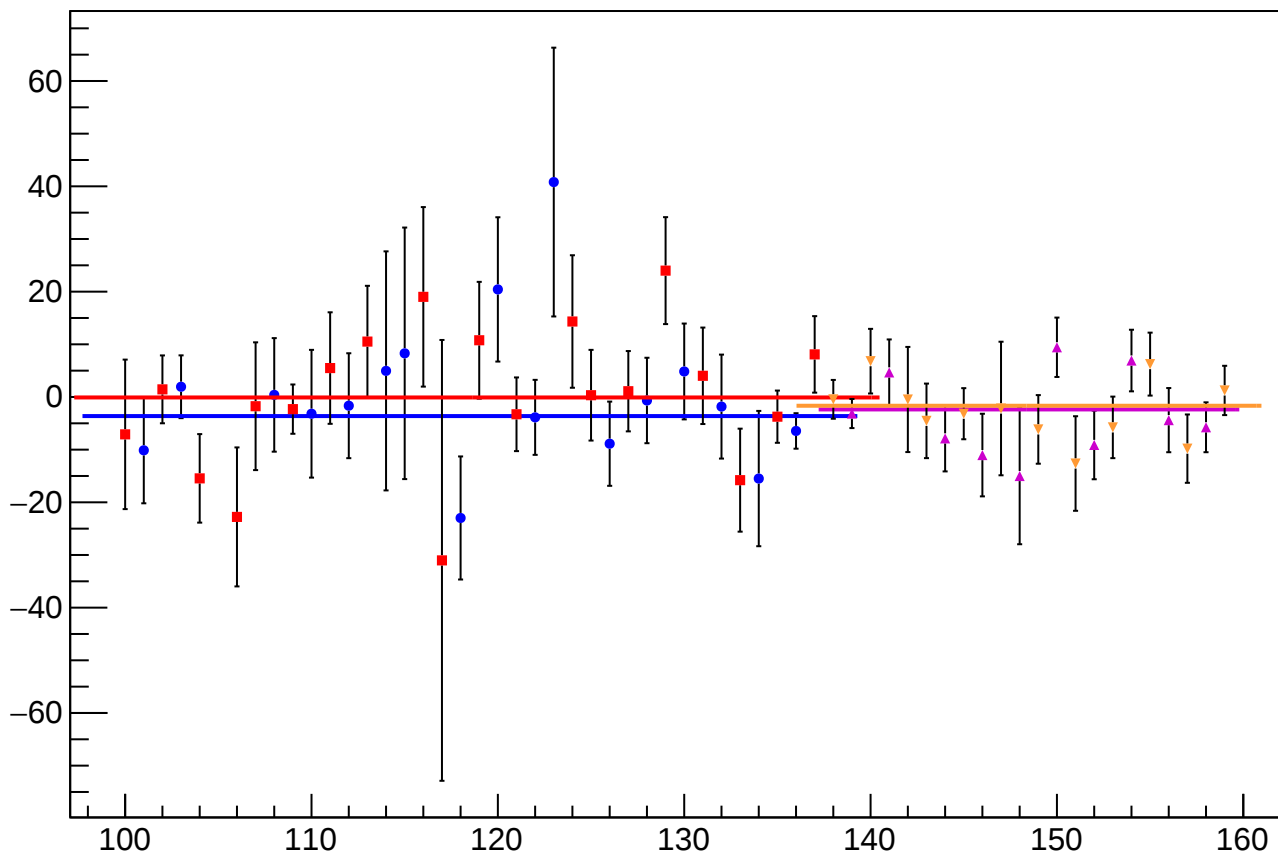
Right Out: 28928.520+/-7.686 χ^2/NDF : 116482.4/19

Left In: 29298.470+/-7.376 χ^2/NDF : 462619.6/9

28762.553+/-5.223 χ^2/NDF : 813914.7/28

29121.125+/-5.322 χ^2/NDF : 580308.1/29

diff_bpm12Y_mean vs Slug



Right In: -3.625 ± 2.006 χ^2/NDF : 13.7/16

Left Out: -1.664 ± 1.711 χ^2/NDF : 8.5/11

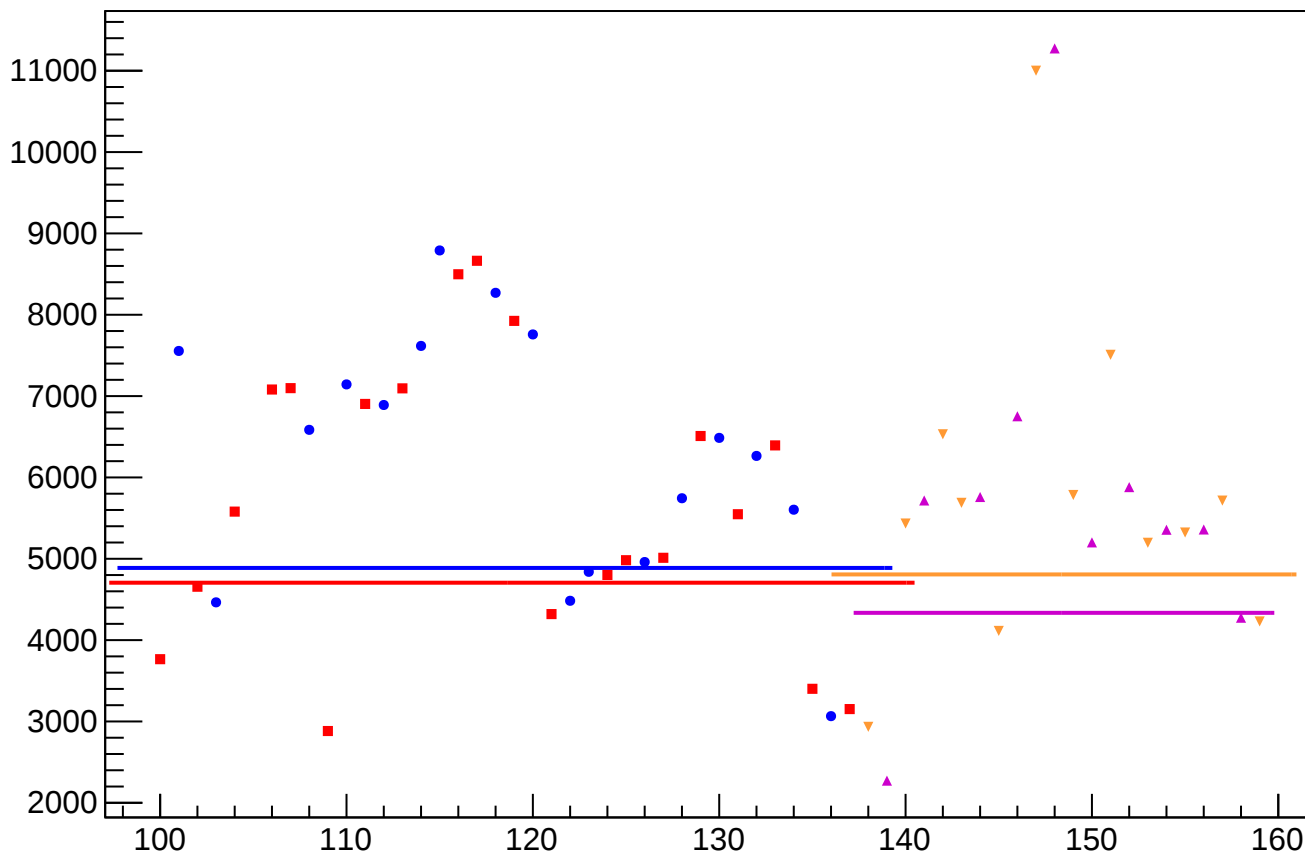
Right Out: -0.090 ± 1.888 χ^2/NDF : 22.6/19

Left In: -2.366 ± 1.666 χ^2/NDF : 12.9/9

-2.490 ± 1.302 χ^2/NDF : 22.8/28

-1.369 ± 1.249 χ^2/NDF : 36.3/29

diff_bpm12Y_rms vs Slug



Right In: 4887.515+/-1.418 χ^2/NDF : 1409296.8/16

Left Out: 4807.608+/-1.210 χ^2/NDF :1465766.2/11

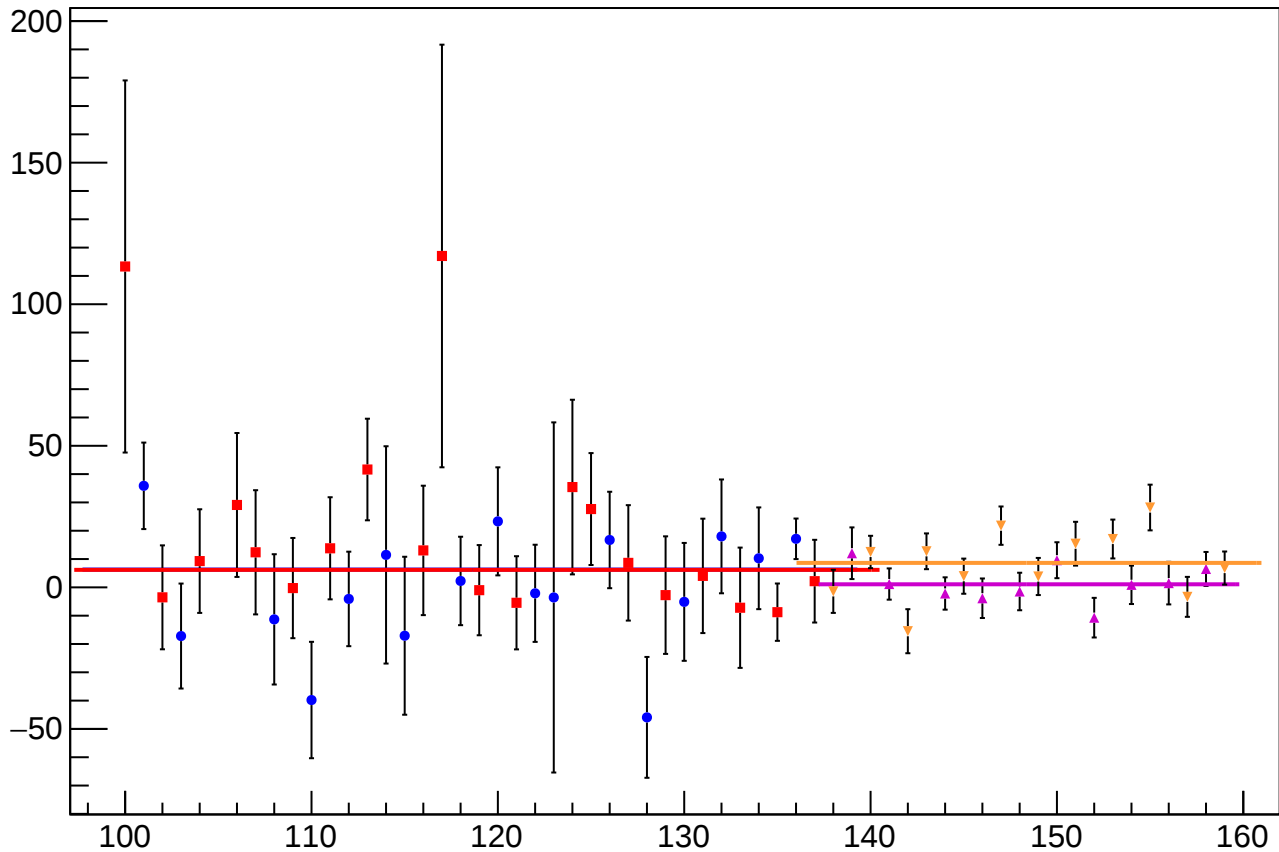
4841.258+/-0.920 χ^2/NDF : 2876900.1/28

Right Out: 4705.797+/-1.335 χ^2/NDF : 1331043.3/19

4497.609+/-0.883 χ^2/NDF : 3732510.8/29

Left In: 4335.411+/-1.178 χ^2/NDF :2358204.0/9

diff_bpm16X_mean vs Slug



Right In: 6.283 ± 4.064 $\chi^2/\text{NDF}: 22.5/16$

Left Out: 8.643 ± 1.950 $\chi^2/\text{NDF}: 28.3/11$

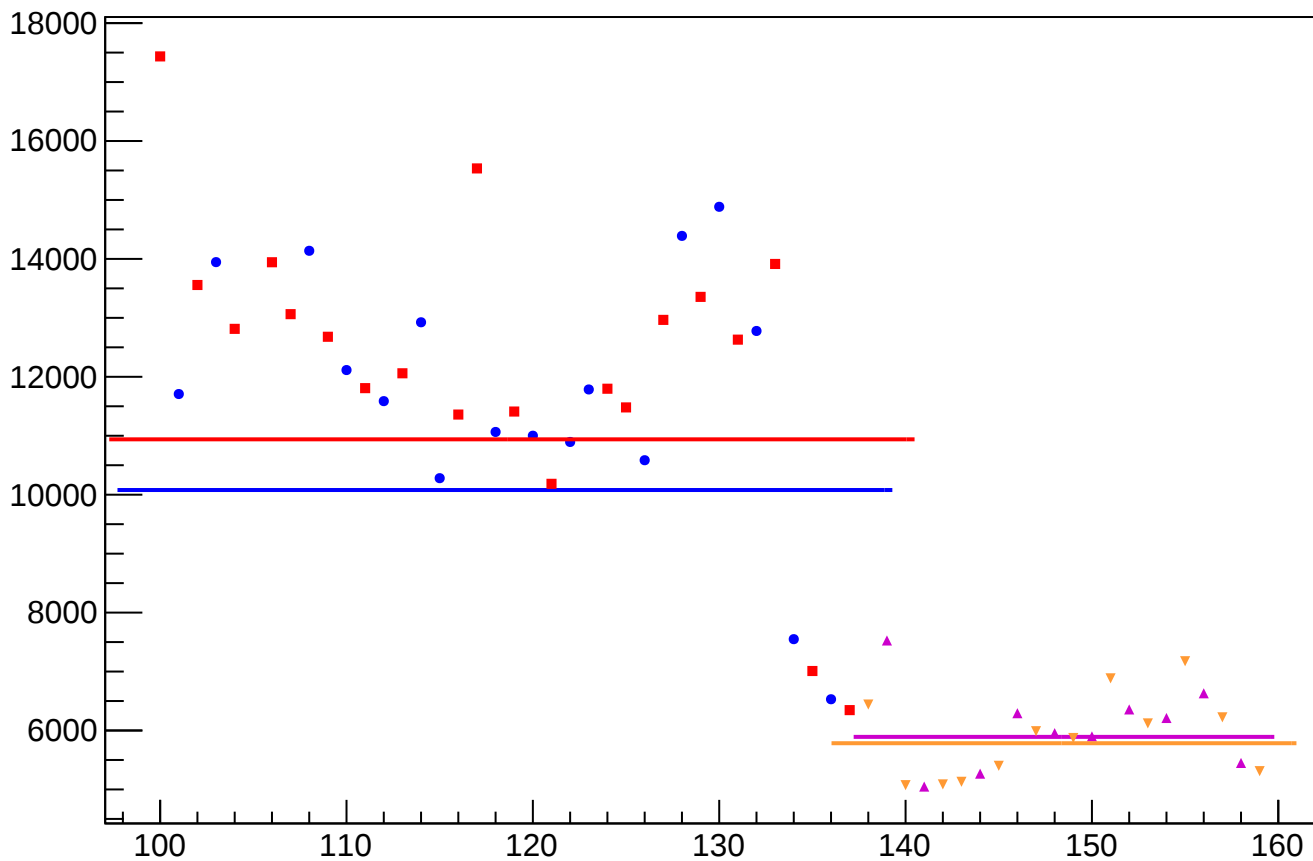
Right Out: 6.182 ± 4.212 $\chi^2/\text{NDF}: 16.0/19$

Left In: 1.083 ± 2.080 $\chi^2/\text{NDF}: 7.9/9$

8.202 ± 1.758 $\chi^2/\text{NDF}: 51.1/28$

2.082 ± 1.865 $\chi^2/\text{NDF}: 25.1/29$

diff_bpm16X_rms vs Slug



Right In: 10079.454+/-2.874 χ^2/NDF : 994683.1/16

Left Out: 5784.093+/-1.379 χ^2/NDF : 218808.7/11

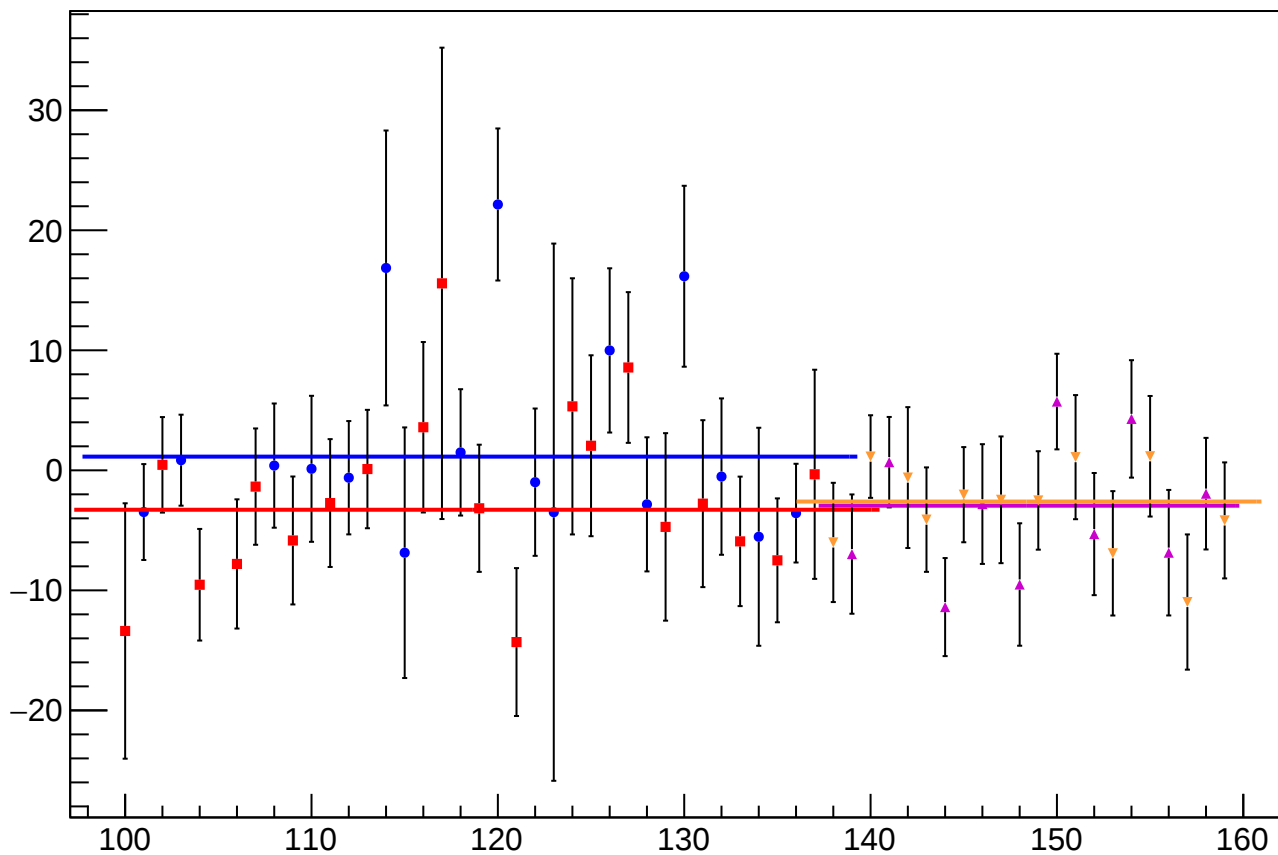
Right Out: 10939.227+/-2.979 χ^2/NDF : 776055.3/19

Left In: 5891.825+/-1.471 χ^2/NDF : 185031.4/9

6587.574+/-1.243 χ^2/NDF : 3029652.4/28

6881.240+/-1.319 χ^2/NDF : 3269733.8/29

diff_bpm16Y_mean vs Slug



Right In: 1.142 ± 1.395 χ^2/NDF : 23.2/16

Left Out: -2.601 ± 1.343 χ^2/NDF : 6.0/11

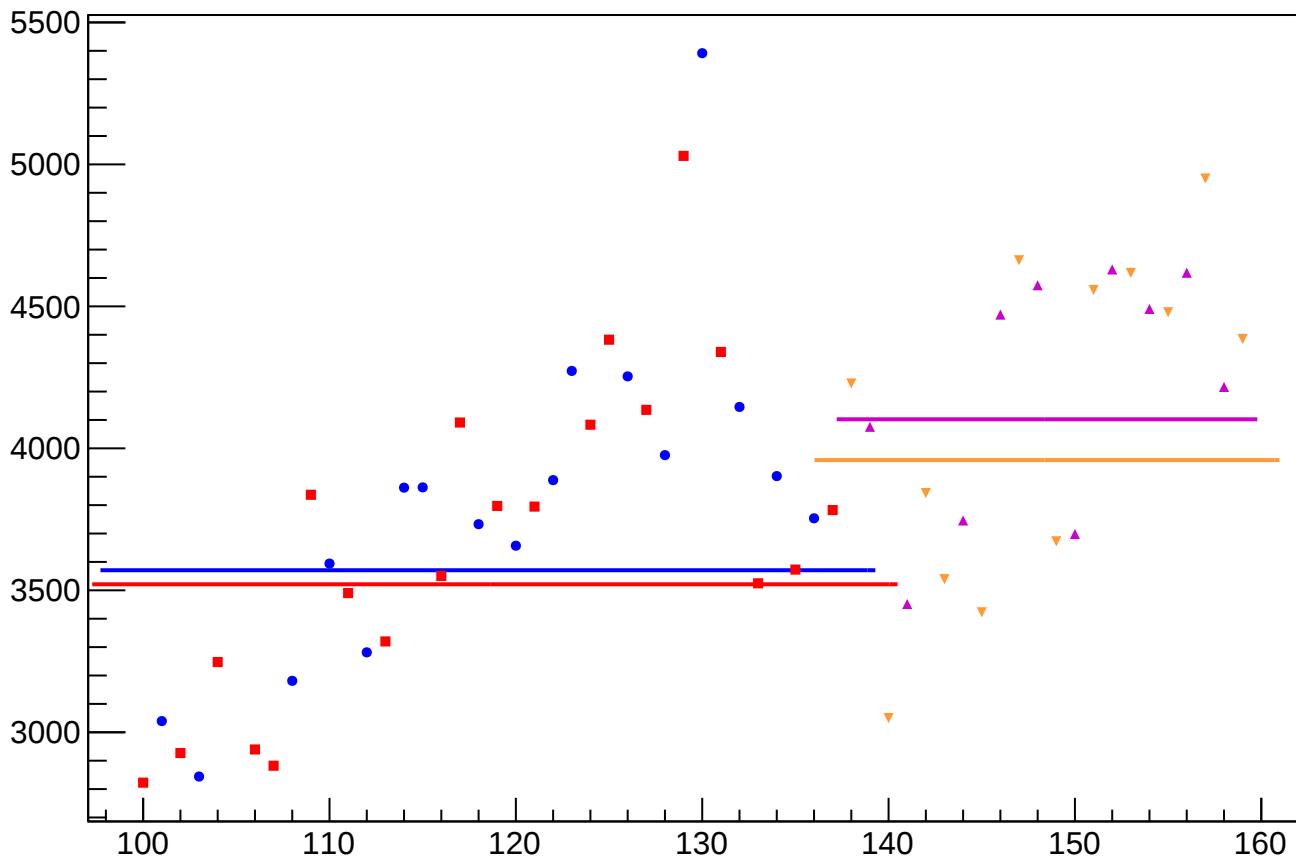
Right Out: -3.284 ± 1.330 χ^2/NDF : 16.0/19

Left In: -2.946 ± 1.450 χ^2/NDF : 15.3/9

-0.800 ± 0.968 χ^2/NDF : 33.0/28

-3.130 ± 0.980 χ^2/NDF : 31.3/29

diff_bpm16Y_rms vs Slug



Right In: 3570.707 ± 0.987 χ^2/NDF : 309568.0/16

Left Out: 3958.555 ± 0.950 χ^2/NDF : 404789.8/11

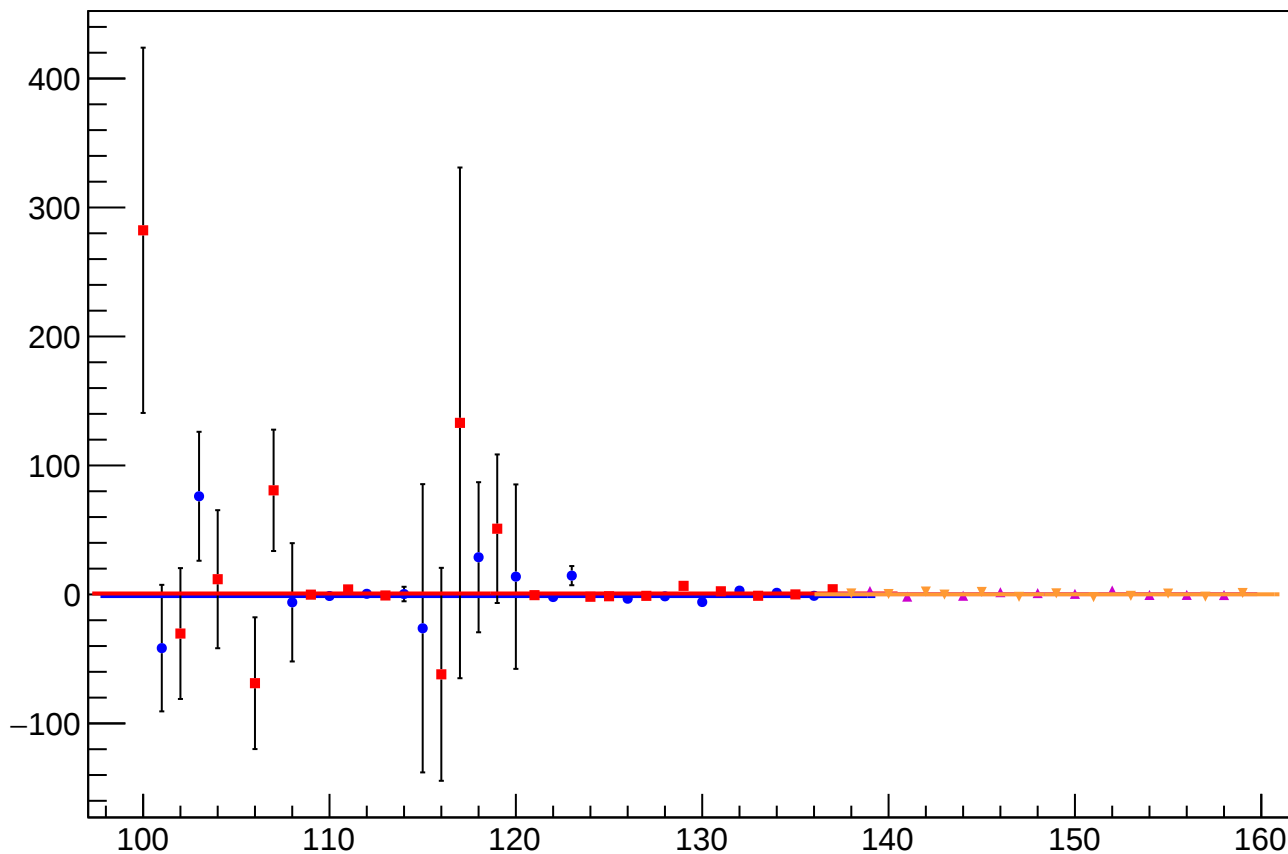
Right Out: 3521.247 ± 0.941 χ^2/NDF : 294919.2/19

Left In: 4102.311 ± 1.025 χ^2/NDF : 178395.2/9

3772.018 ± 0.684 χ^2/NDF : 794577.8/28

3786.817 ± 0.693 χ^2/NDF : 647764.9/29

diff_bpm1p02bX_mean vs Slug



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

Left Out: 0.103 ± 0.353 χ^2/NDF : 14.3/11

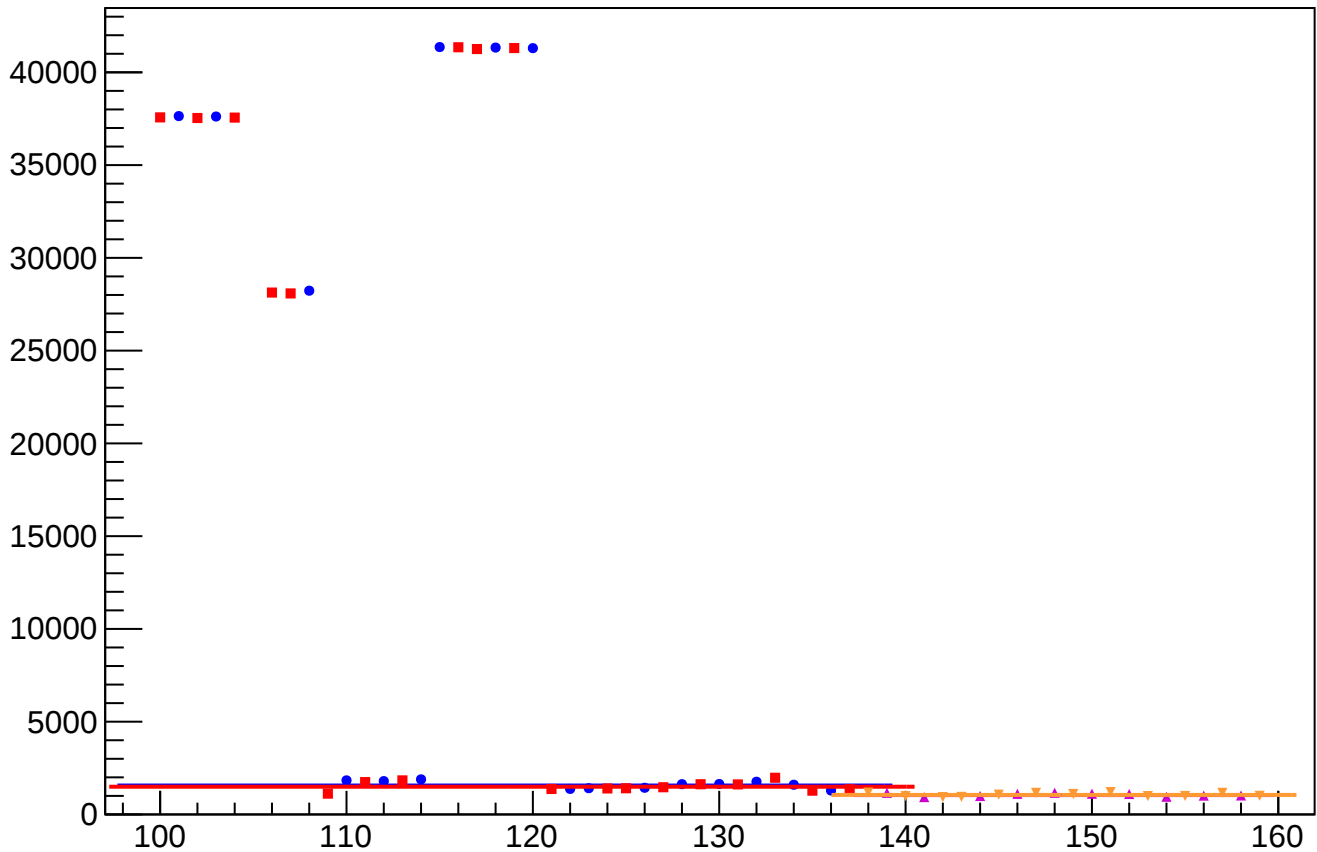
Right Out: 0.735 ± 0.710 χ^2/NDF : 22.5/19

Left In: 0.271 ± 0.368 χ^2/NDF : 16.0/9

-0.146 ± 0.319 χ^2/NDF : 33.3/28

0.369 ± 0.327 χ^2/NDF : 38.9/29

diff_bpm1p02bX_rms vs Slug



Right In: 1558.988+/-0.529 χ^2 /NDF: 4753669.7/16

Left Out: 1052.808+/-0.250 χ^2 /NDF: 128526.2/11

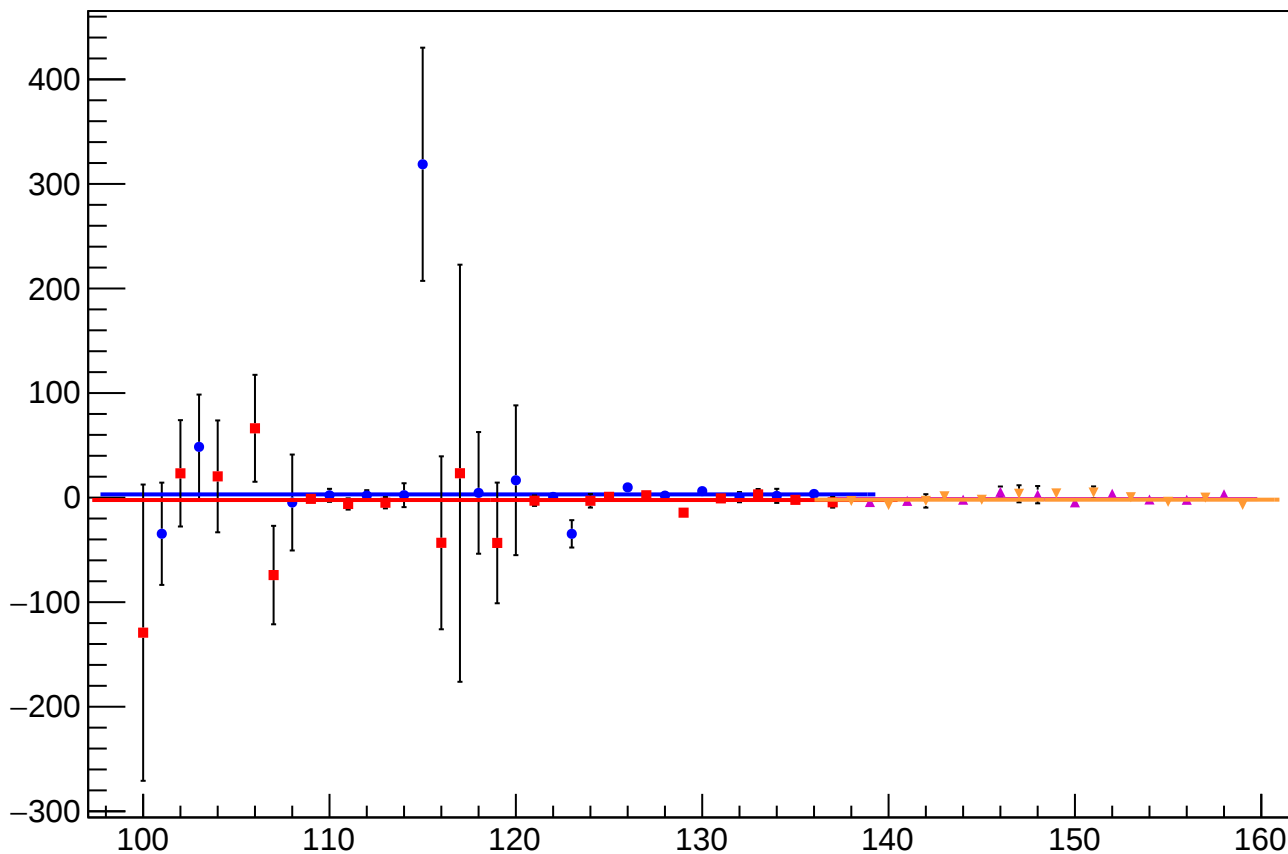
1145.179+/-0.226 χ^2 /NDF: 5631218.6/28

Right Out: 1495.131+/-0.502 χ^2 /NDF: 4973587.9/19

1139.760+/-0.231 χ^2 /NDF: 5704031.6/29

Left In: 1044.419+/-0.260 χ^2 /NDF: 95491.3/9

diff_bpm1p02bY_mean vs Slug



Right In: 3.075 ± 1.323 χ^2/NDF : 21.9/16

Left Out: -1.968 ± 1.129 χ^2/NDF : 8.7/11

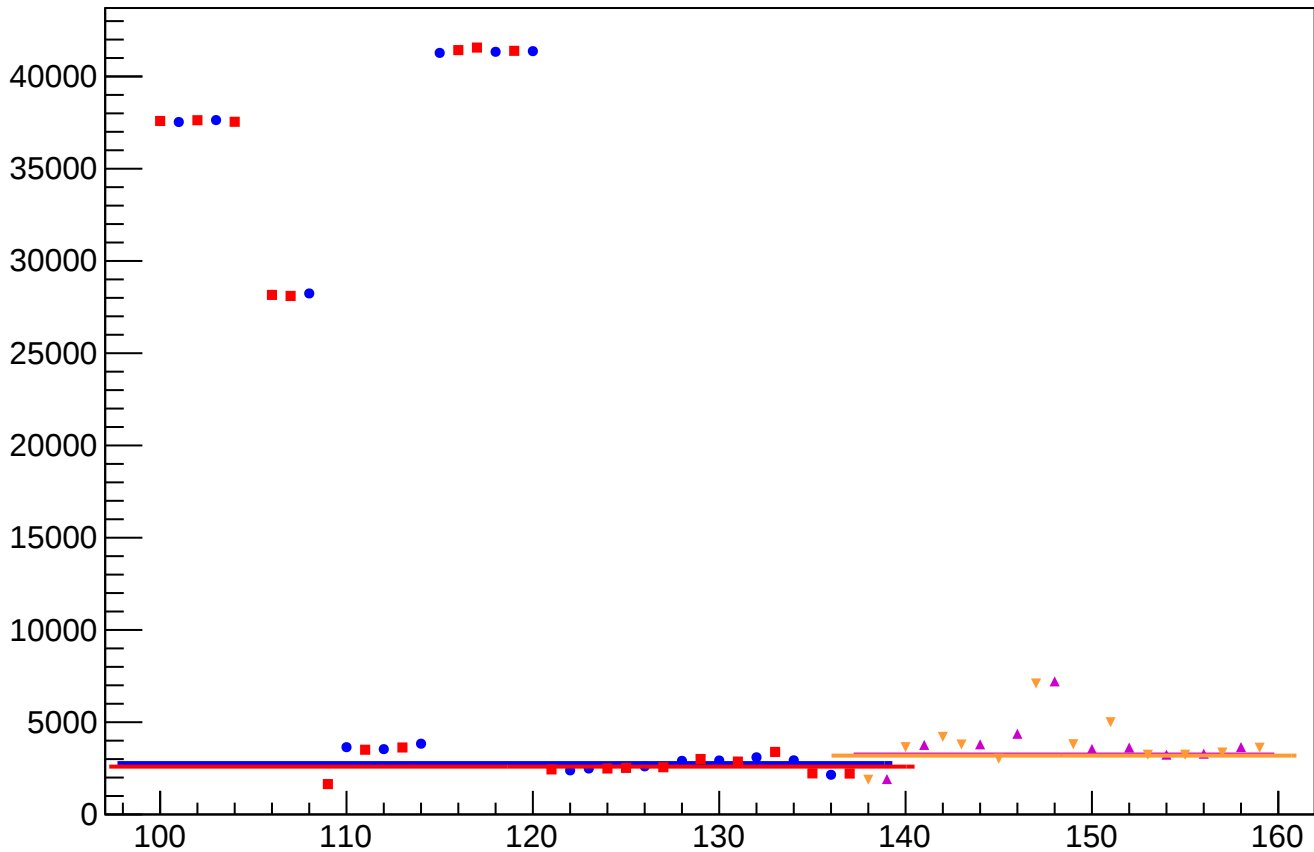
Right Out: -2.305 ± 1.235 χ^2/NDF : 16.9/19

Left In: -1.391 ± 1.203 χ^2/NDF : 7.3/9

0.156 ± 0.859 χ^2/NDF : 39.0/28

-1.836 ± 0.861 χ^2/NDF : 24.6/29

diff_bpm1p02bY_rms vs Slug



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

Left Out: 3190.030+/-0.798 χ^2 /NDF: 1497334.0/11

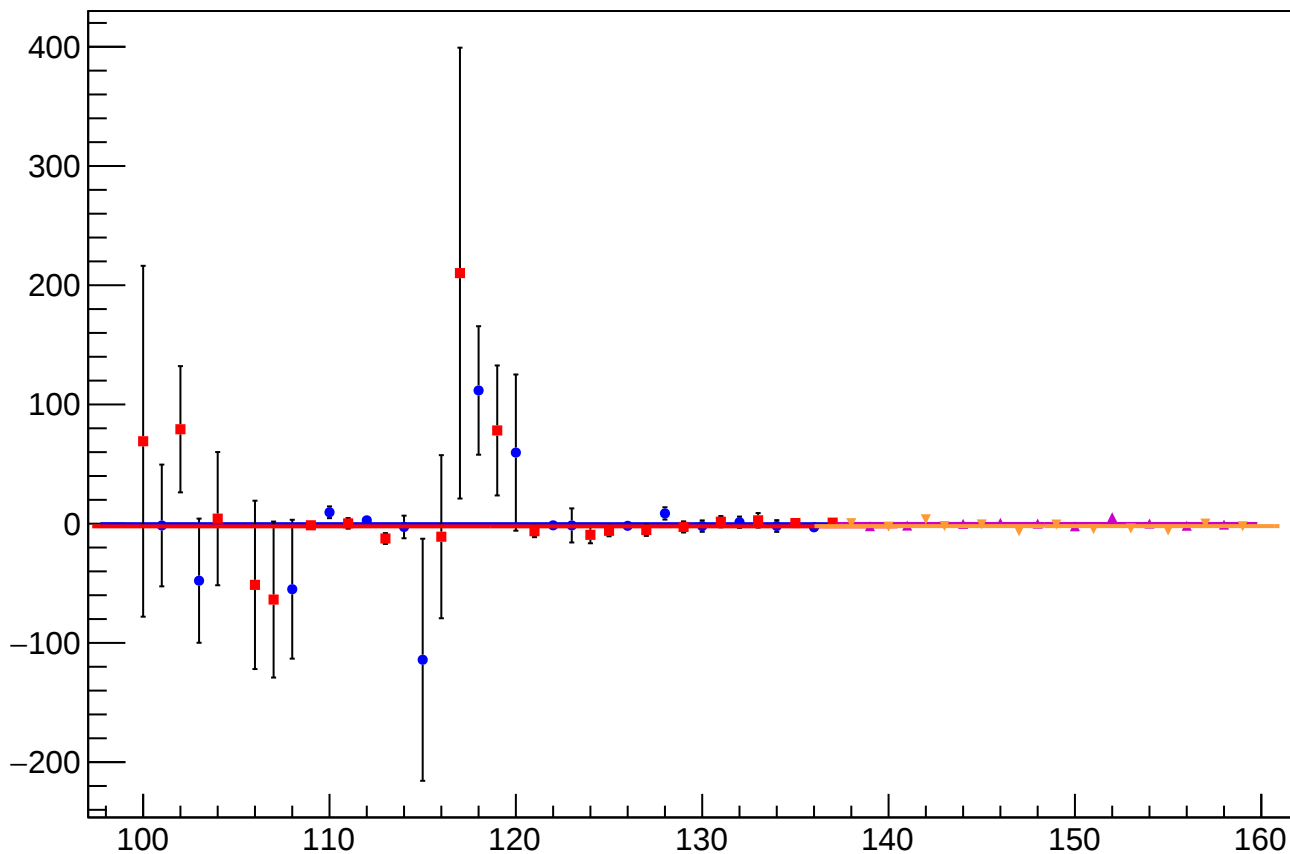
Right Out: 2592.654+/-0.873 χ^2 /NDF: 4923077.9/19

Left In: 3246.565+/-0.850 χ^2 /NDF: 1304732.9/9

3019.054+/-0.607 χ^2 /NDF: 6183782.8/28

2928.172+/-0.609 χ^2 /NDF: 6515735.5/29

diff_bpm1p03aX_mean vs Slug



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

Left Out: -2.035+/-0.553 χ^2 /NDF: 20.6/11

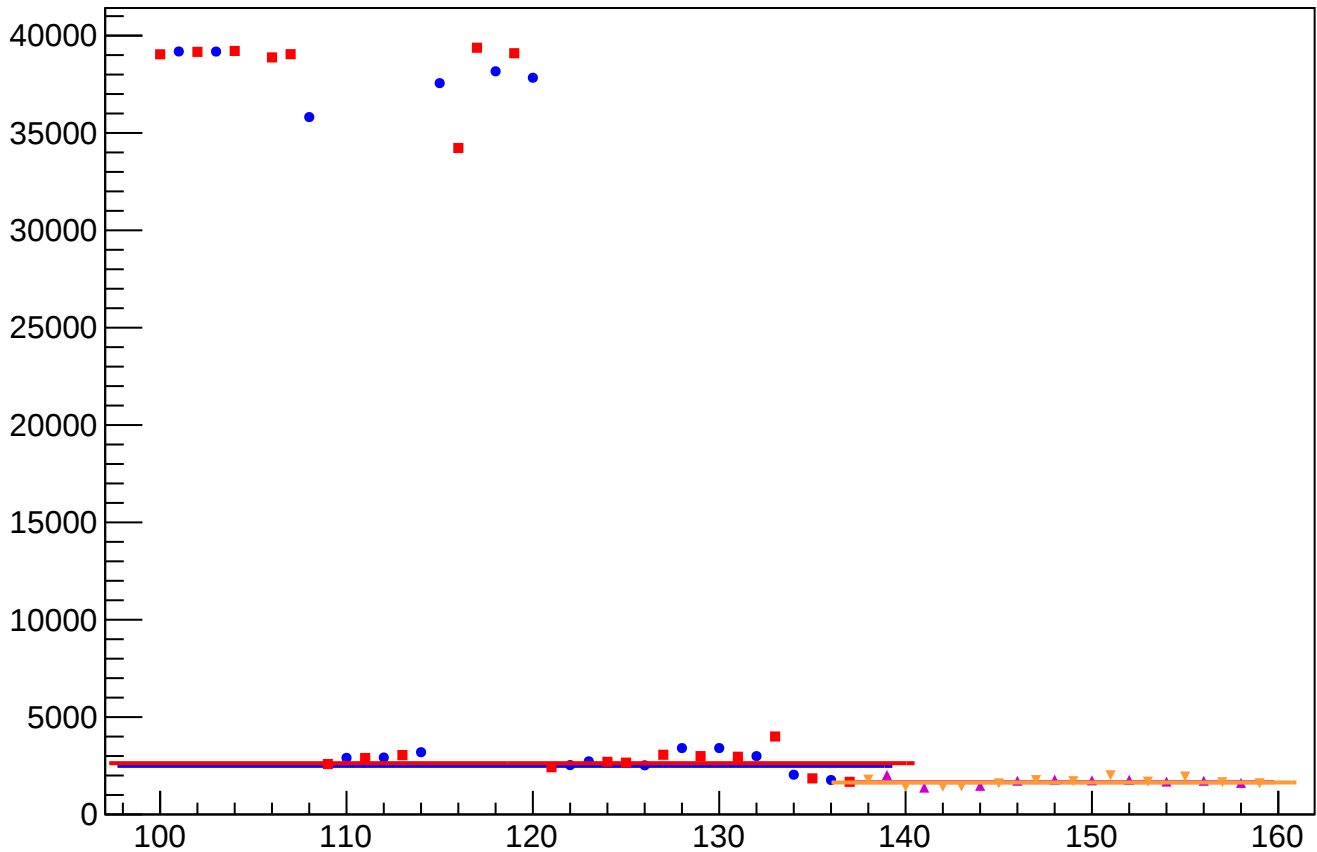
Right Out: -2.235+/-1.246 χ^2 /NDF: 18.7/19

Left In: -0.239+/-0.585 χ^2 /NDF: 11.5/9

-1.756+/-0.503 χ^2 /NDF: 40.4/28

-0.600+/-0.530 χ^2 /NDF: 32.3/29

diff_bpm1p03aX_rms vs Slug



Right In: 2495.603+/-0.861 χ^2 /NDF: 4882334.6/16

Left Out: 1642.821+/-0.391 χ^2 /NDF:203083.7/11

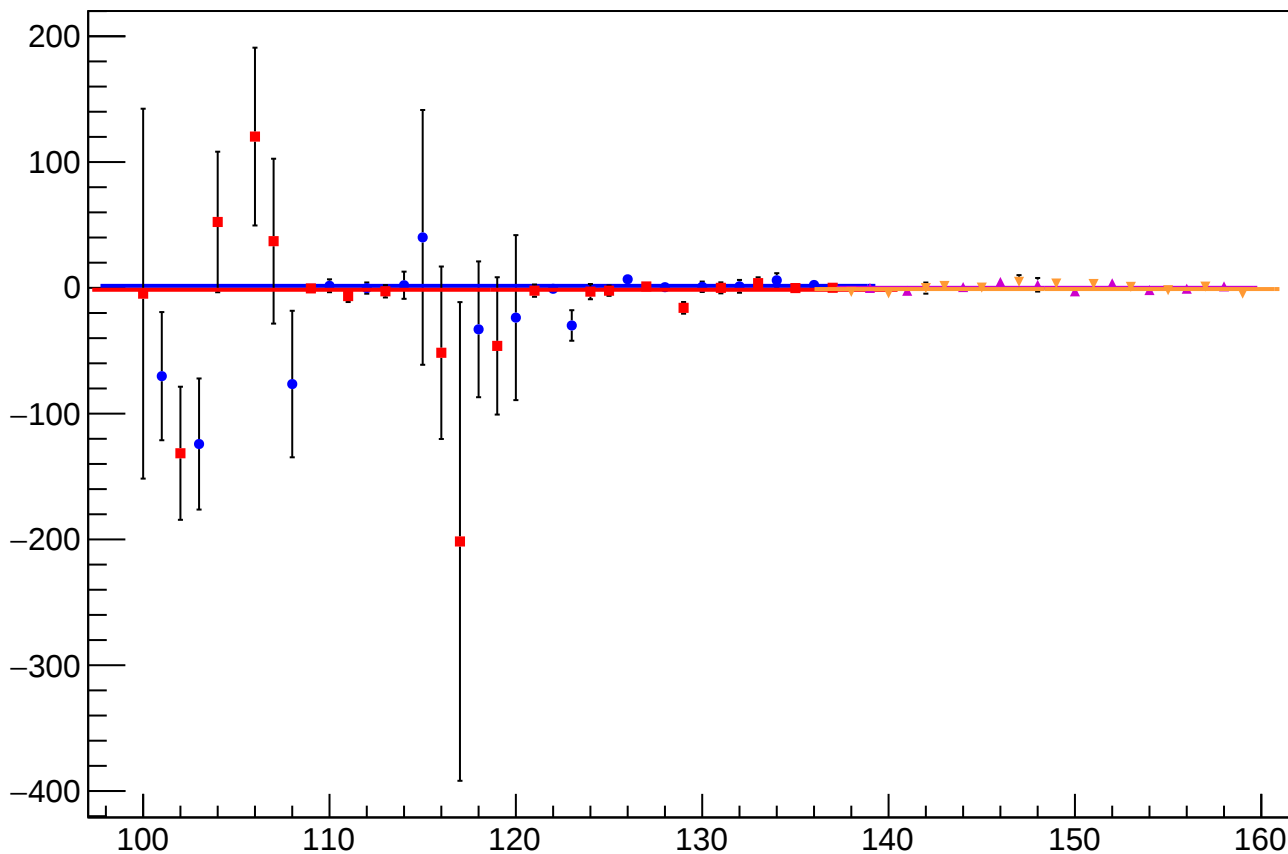
Right Out: 2634.840+/-0.881 χ^2 /NDF: 4936039.0/19

Left In: 1657.005+/-0.414 χ^2 /NDF:170239.9/9

1788.555+/-0.356 χ^2 /NDF: 5898518.2/28

1833.641+/-0.374 χ^2 /NDF: 6115701.7/29

diff_bpm1p03aY_mean vs Slug



Right In: 1.576+/-1.143 χ^2/NDF : 20.3/16

Left Out: -0.958+/-0.744 χ^2/NDF : 13.0/11

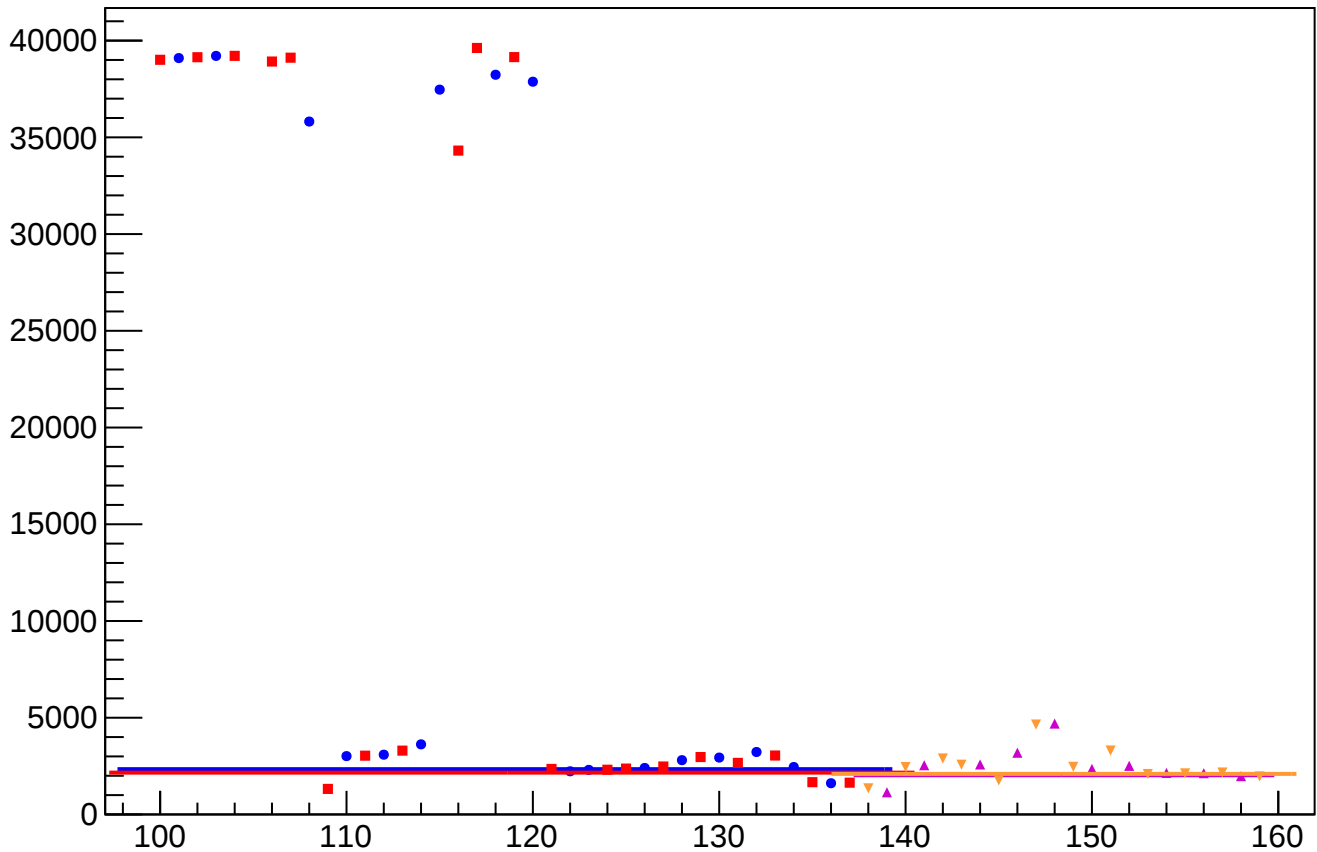
Right Out: -1.530+/-1.062 χ^2/NDF : 26.1/19

Left In: 0.023+/-0.762 χ^2/NDF : 6.3/9

-0.205+/-0.623 χ^2/NDF : 36.8/28

-0.505+/-0.619 χ^2/NDF : 33.9/29

diff_bpm1p03aY_rms vs Slug



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

Left Out: 2097.524+/-0.526 χ^2/NDF : 1264215.8/11

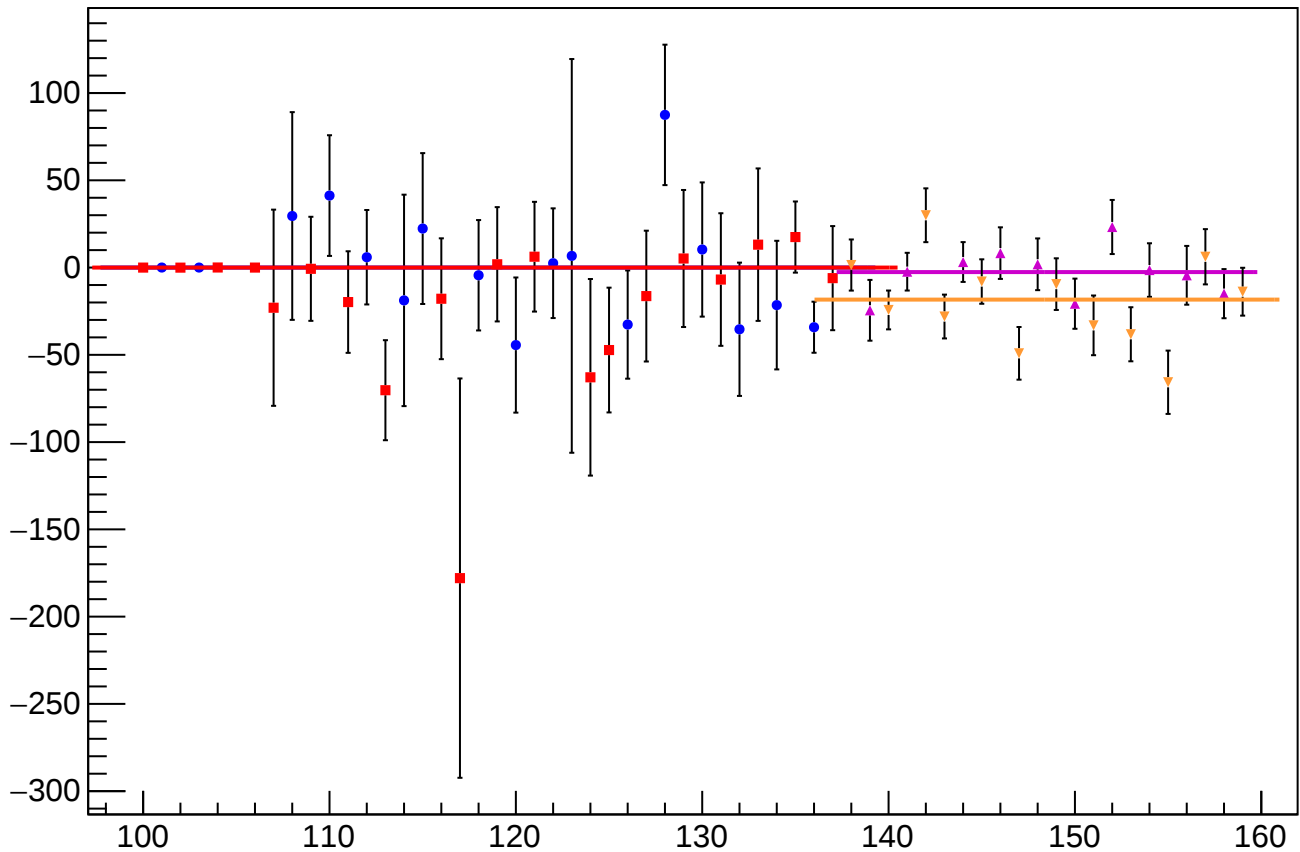
Right Out: 2162.329+/-0.751 χ^2/NDF : 5376569.5/19

Left In: 2026.478+/-0.539 χ^2/NDF : 1746598.6/9

2169.964+/-0.441 χ^2/NDF : 6334917.7/28

2072.672+/-0.438 χ^2/NDF : 7144761.5/29

diff_cav4bX_mean vs Slug



Right In: 0.013 ± 0.017 χ^2/NDF : 16.2/16

Left Out: -18.352 ± 4.139 χ^2/NDF : 29.4/11

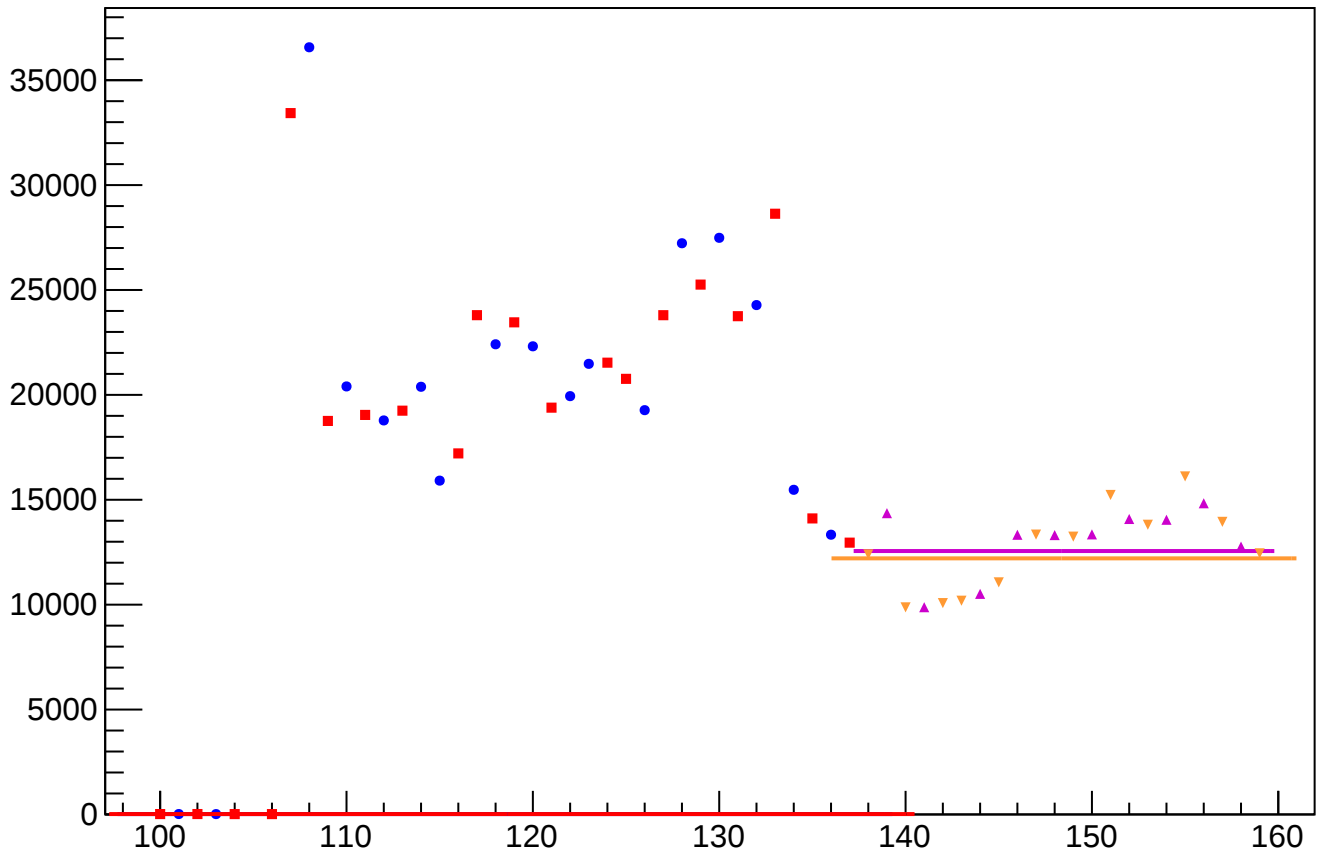
Right Out: 0.003 ± 0.016 χ^2/NDF : 18.3/19

Left In: -2.585 ± 4.450 χ^2/NDF : 7.6/9

0.013 ± 0.017 χ^2/NDF : 65.3/28

0.003 ± 0.016 χ^2/NDF : 26.3/29

diff_cav4bX_rms vs Slug



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

Left Out: 12207.208+/-2.927 χ^2/NDF : 417104.4/11

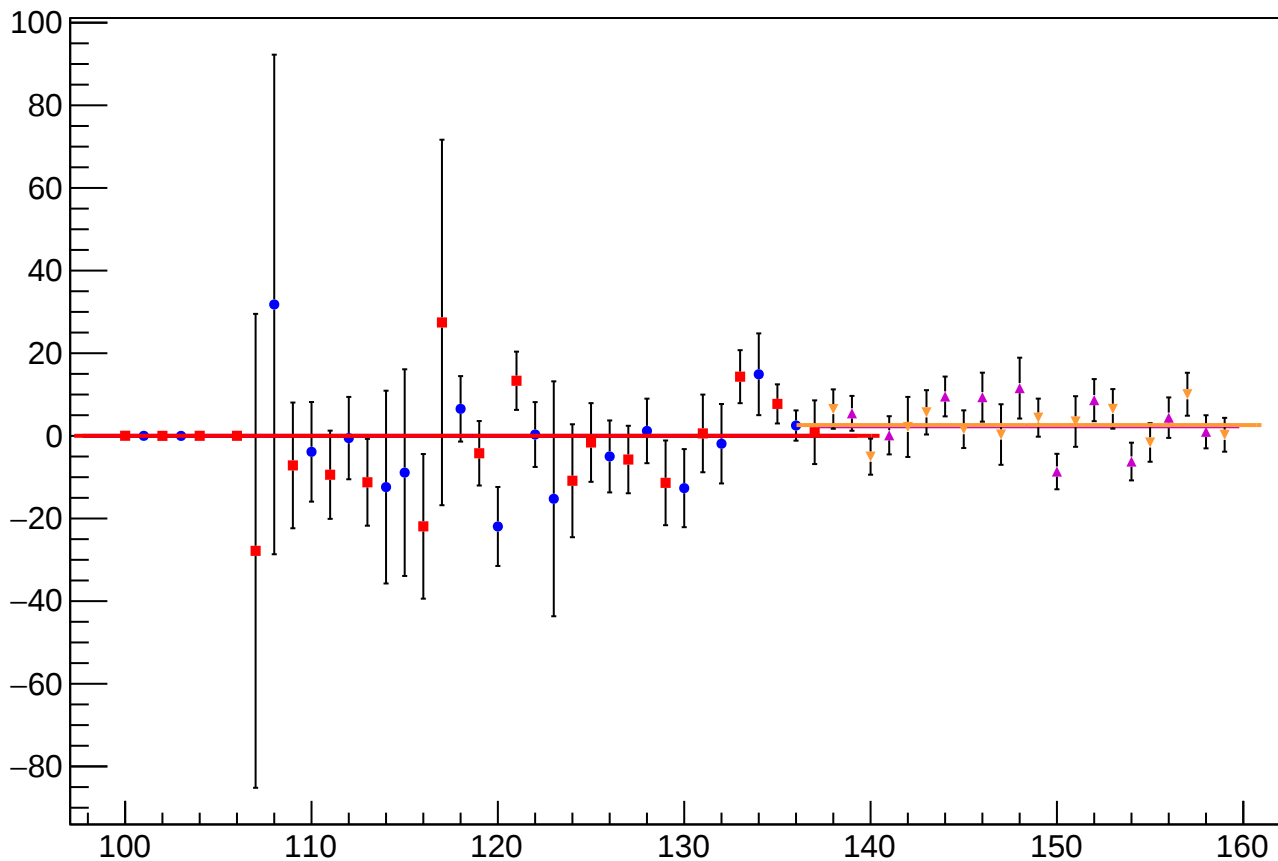
Right Out: 18.312+/-0.011 χ^2/NDF : 11197081.8/19

Left In: 12556.218+/-3.147 χ^2/NDF : 300490.9/9

18.855+/-0.012 χ^2/NDF : 28741773.1/28

18.475+/-0.011 χ^2/NDF : 27374300.8/29

diff_cav4bY_mean vs Slug



Right In: 0.001+/-0.009 χ^2/NDF : 13.0/16

Left Out: 2.613+/-1.448 χ^2/NDF : 8.2/11

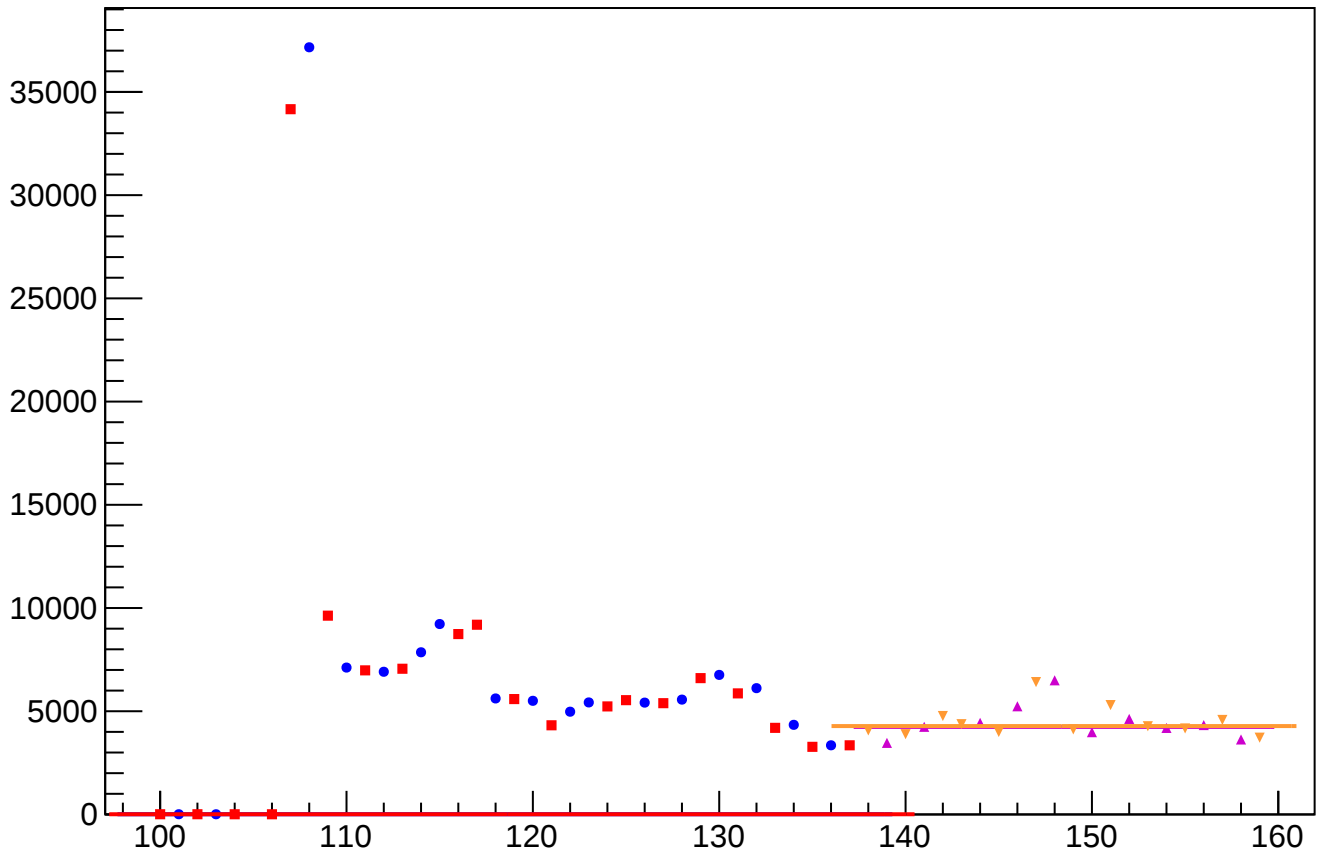
Right Out: 0.014+/-0.009 χ^2/NDF : 19.0/19

Left In: 2.317+/-1.511 χ^2/NDF : 17.9/9

0.001+/-0.009 χ^2/NDF : 24.5/28

0.014+/-0.009 χ^2/NDF : 39.1/29

diff_cav4bY_rms vs Slug



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

Left Out: 4281.110+/-1.024 χ^2/NDF : 309698.1/11

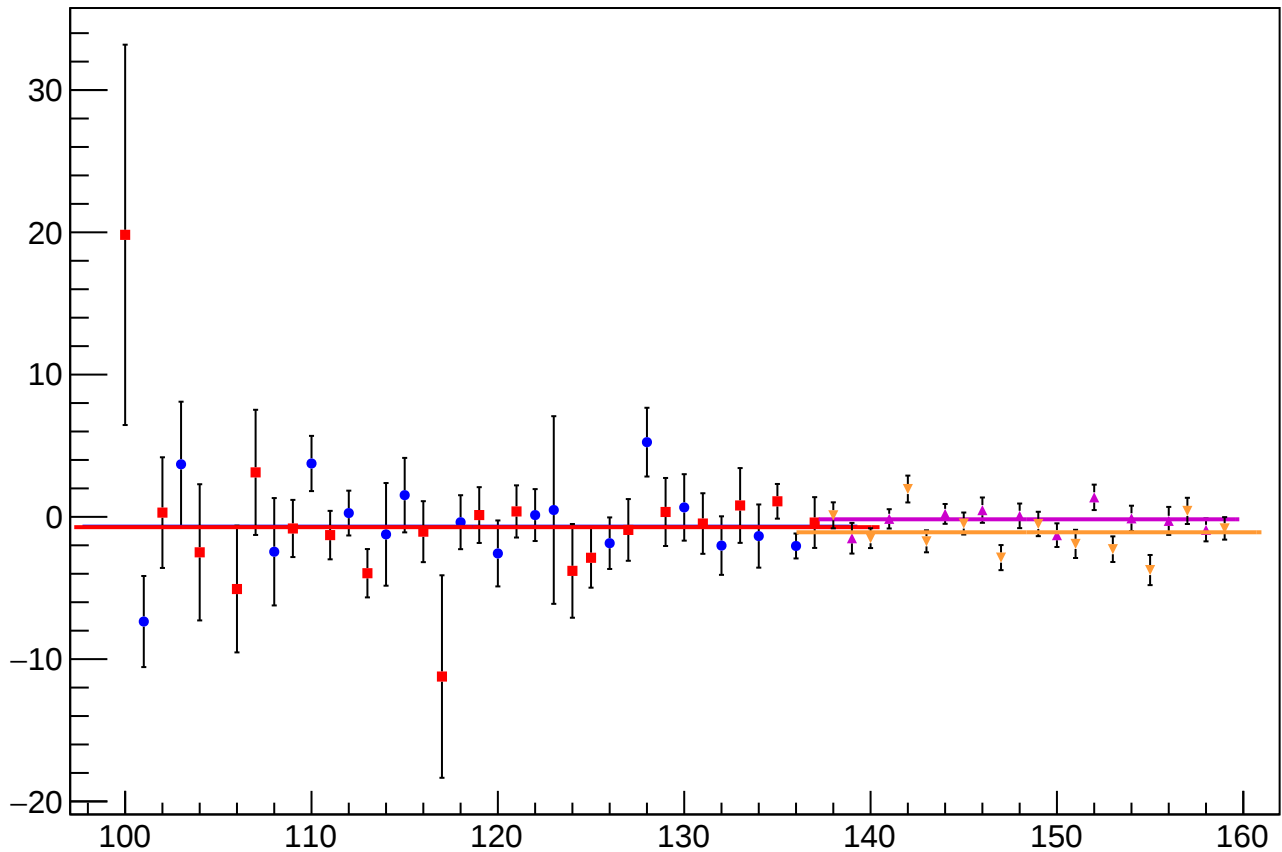
Right Out: 9.855+/-0.006 χ^2/NDF : 11246160.9/19

Left In: 4240.448+/-1.069 χ^2/NDF : 380985.2/9

10.111+/-0.007 χ^2/NDF : 28814890.1/28

9.993+/-0.006 χ^2/NDF : 27298567.5/29

diff_cav4cX_mean vs Slug



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

Left Out: -1.084 ± 0.248 χ^2/NDF : 29.8/11

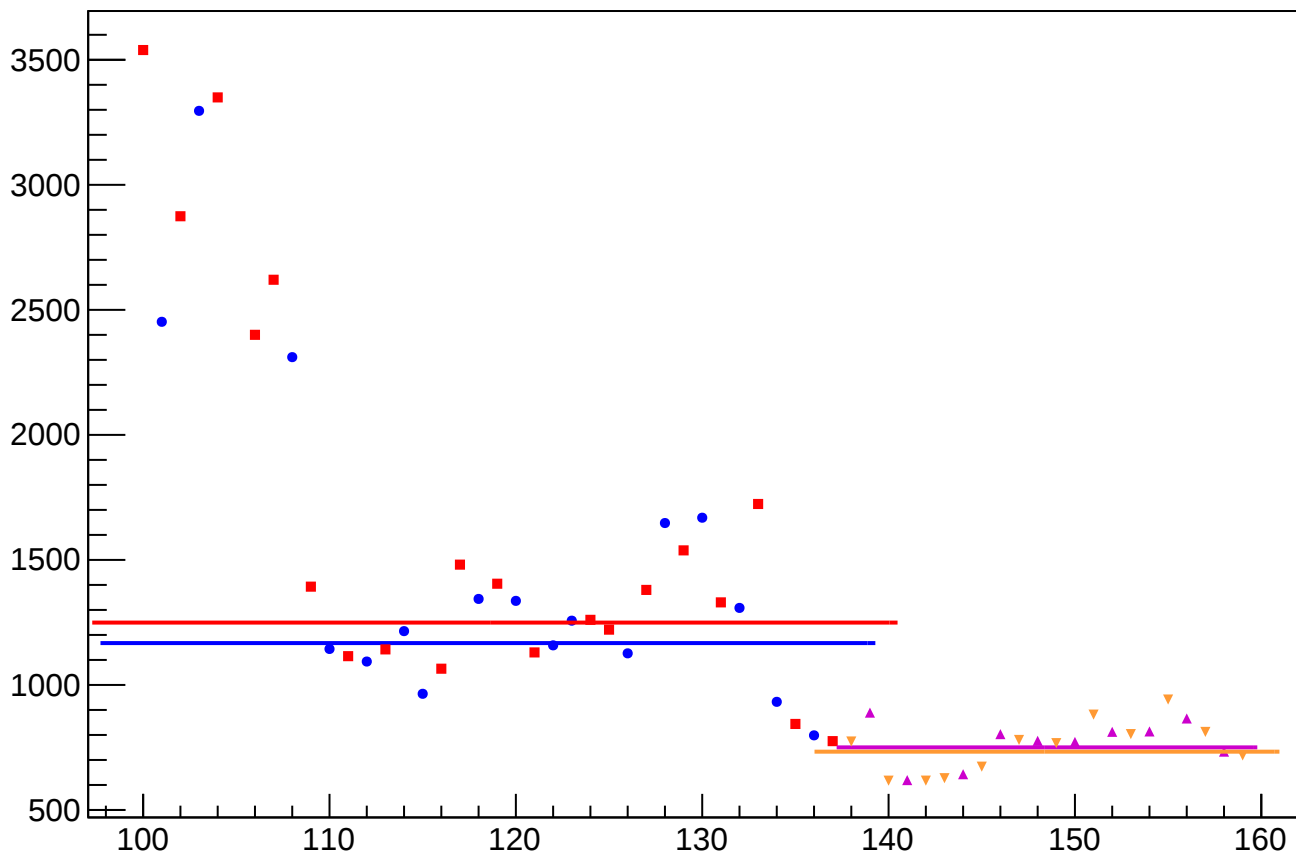
Right Out: -0.724 ± 0.499 χ^2/NDF : 15.5/19

Left In: -0.172 ± 0.265 χ^2/NDF : 8.1/9

-1.001 ± 0.220 χ^2/NDF : 52.8/28

-0.293 ± 0.234 χ^2/NDF : 24.5/29

diff_cav4cX_rms vs Slug



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

Left Out: 733.160 $\pm$ 0.175 χ^2 /NDF: 298102.4/11

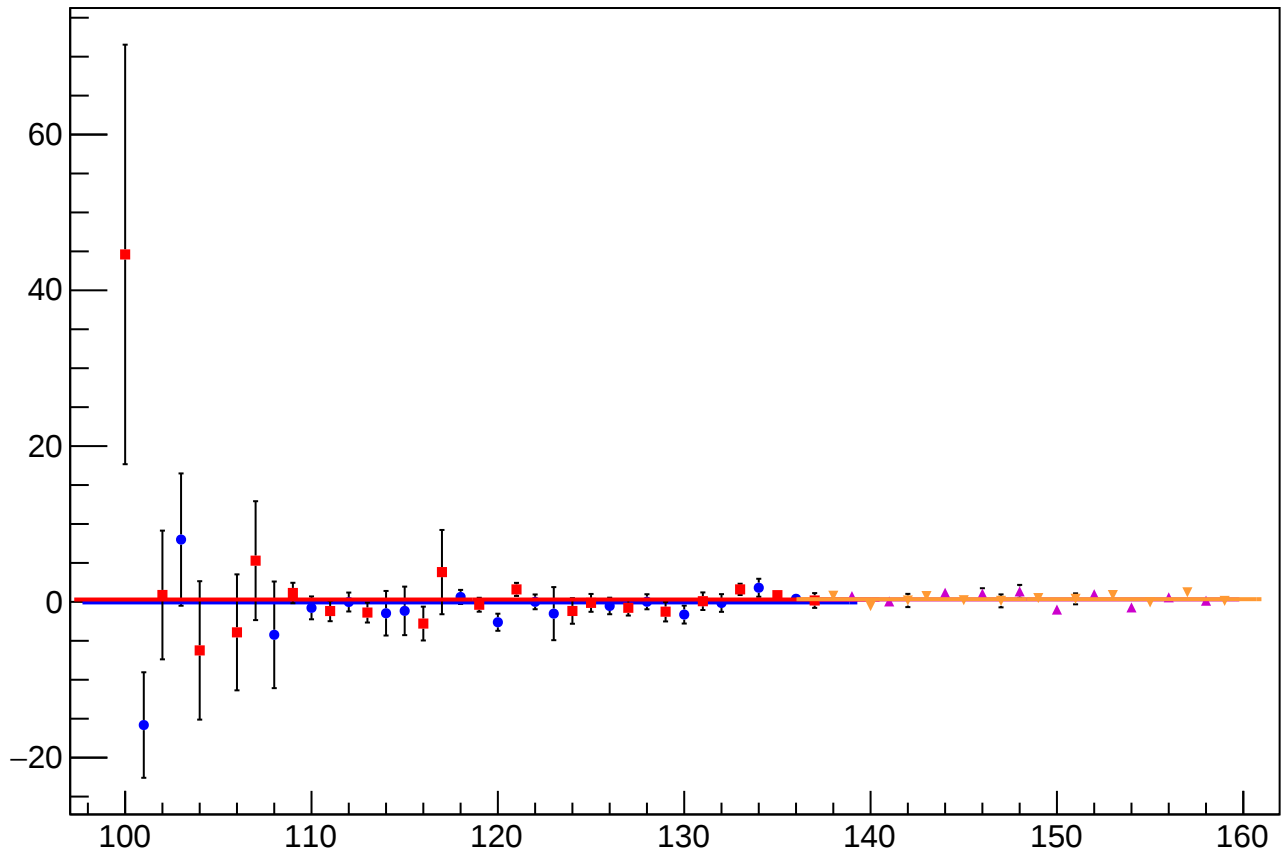
Right Out: 1249.388 $\pm$ 0.353 χ^2 /NDF: 1656159.5/19

Left In: 750.270 $\pm$ 0.187 χ^2 /NDF: 214206.8/9

823.756 $\pm$ 0.156 χ^2 /NDF: 3159579.7/28

859.965 $\pm$ 0.166 χ^2 /NDF: 3428773.8/29

diff_cav4cY_mean vs Slug



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

Left Out: 0.344 ± 0.173 χ^2/NDF : 7.7/11

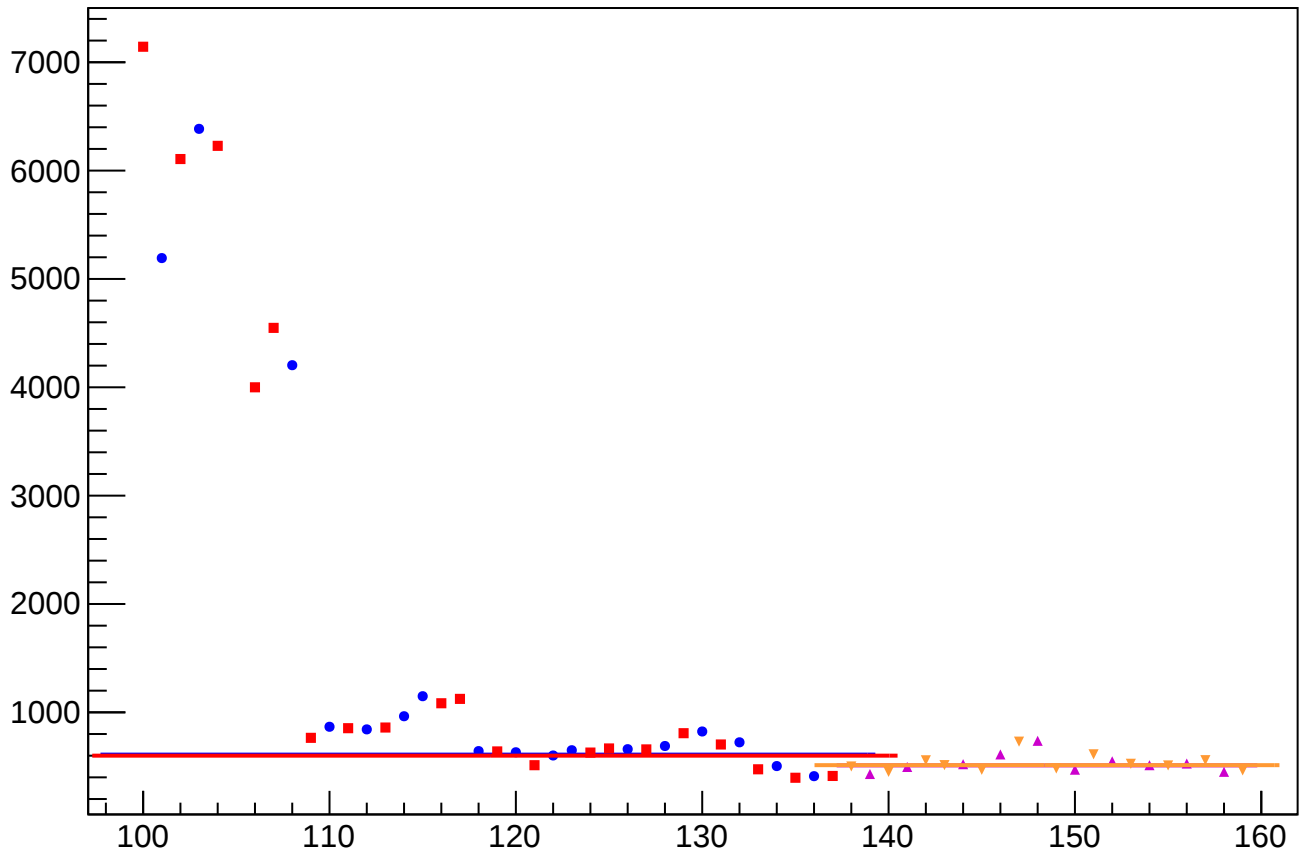
Right Out: 0.303 ± 0.264 χ^2/NDF : 20.7/19

Left In: 0.313 ± 0.181 χ^2/NDF : 17.4/9

0.222 ± 0.145 χ^2/NDF : 28.7/28

0.310 ± 0.149 χ^2/NDF : 38.1/29

diff_cav4cY_rms vs Slug



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

Left Out: 512.517 $\pm$ 0.122 χ^2 /NDF: 261951.4/11

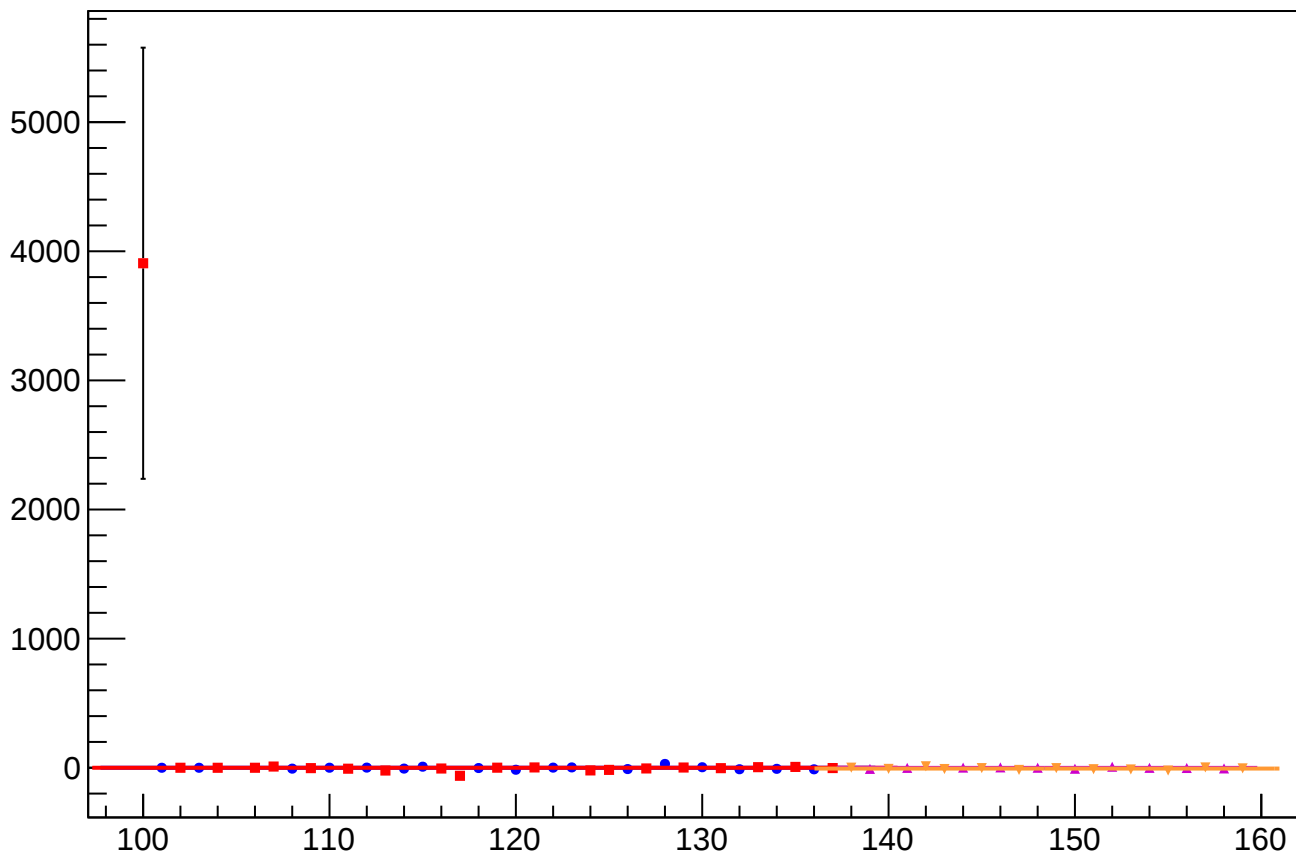
541.047 $\pm$ 0.103 χ^2 /NDF: 3583280.1/28

Right Out: 600.264 $\pm$ 0.186 χ^2 /NDF: 3571191.0/19

539.296 $\pm$ 0.106 χ^2 /NDF: 4017928.9/29

Left In: 510.456 $\pm$ 0.128 χ^2 /NDF: 289130.9/9

diff_cav4dX_mean vs Slug



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

Left Out: -6.257 ± 1.439 χ^2/NDF : 29.8/11

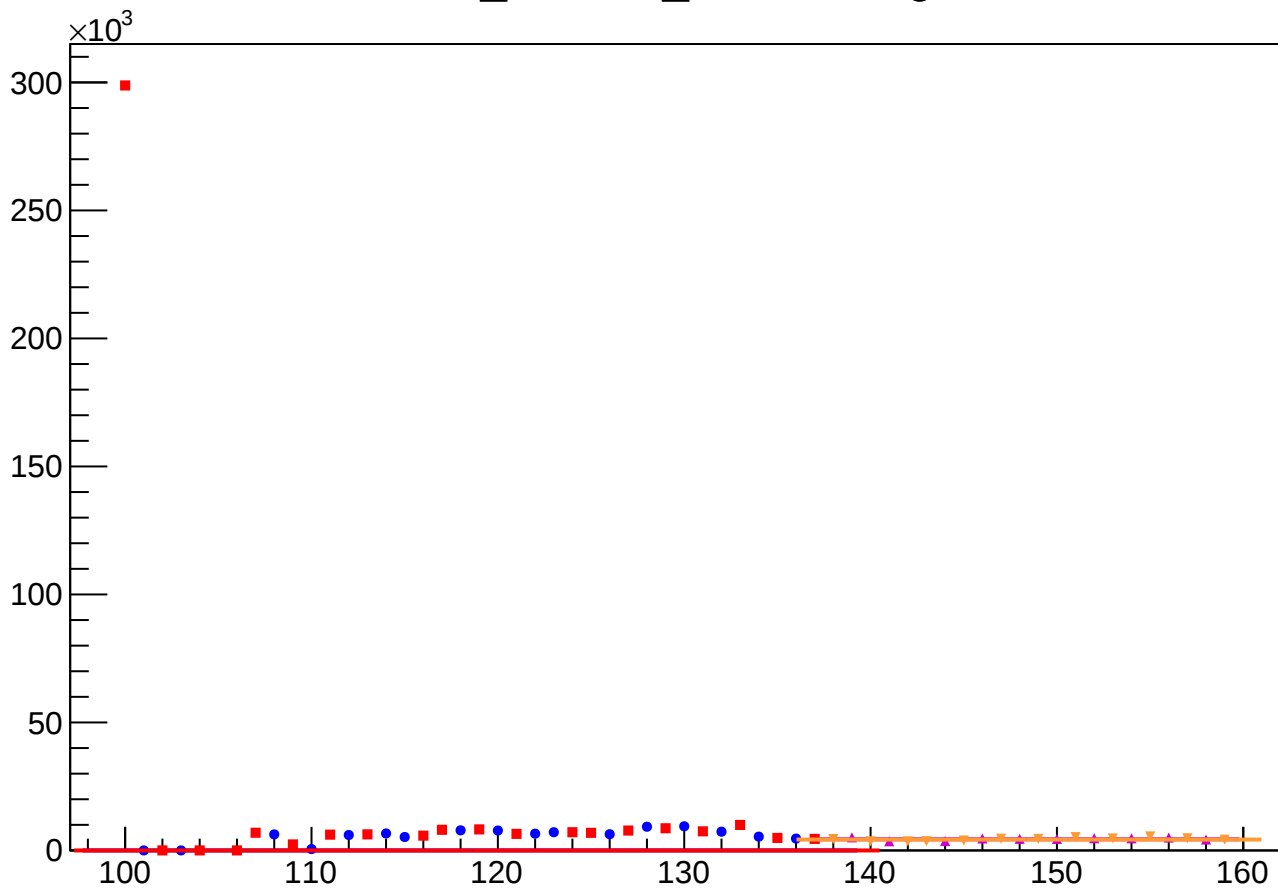
Right Out: -0.027 ± 0.020 χ^2/NDF : 20.5/19

Left In: -0.974 ± 1.544 χ^2/NDF : 7.9/9

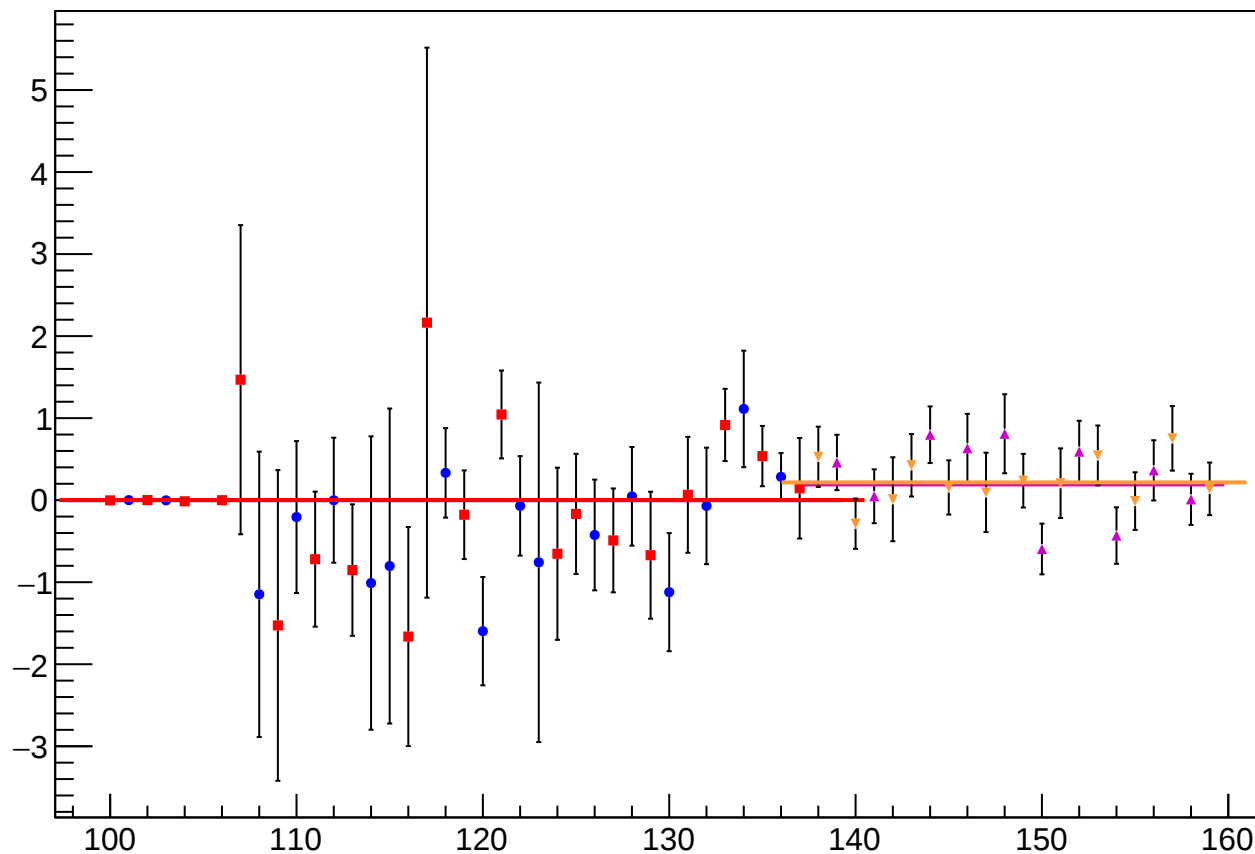
-0.023 ± 0.021 χ^2/NDF : 64.2/28

-0.027 ± 0.020 χ^2/NDF : 28.8/29

diff_cav4dX_rms vs Slug



diff_cav4dY_mean vs Slug



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 13.8/16$

Left Out: 0.217 ± 0.106 $\chi^2/\text{NDF}: 7.1/11$

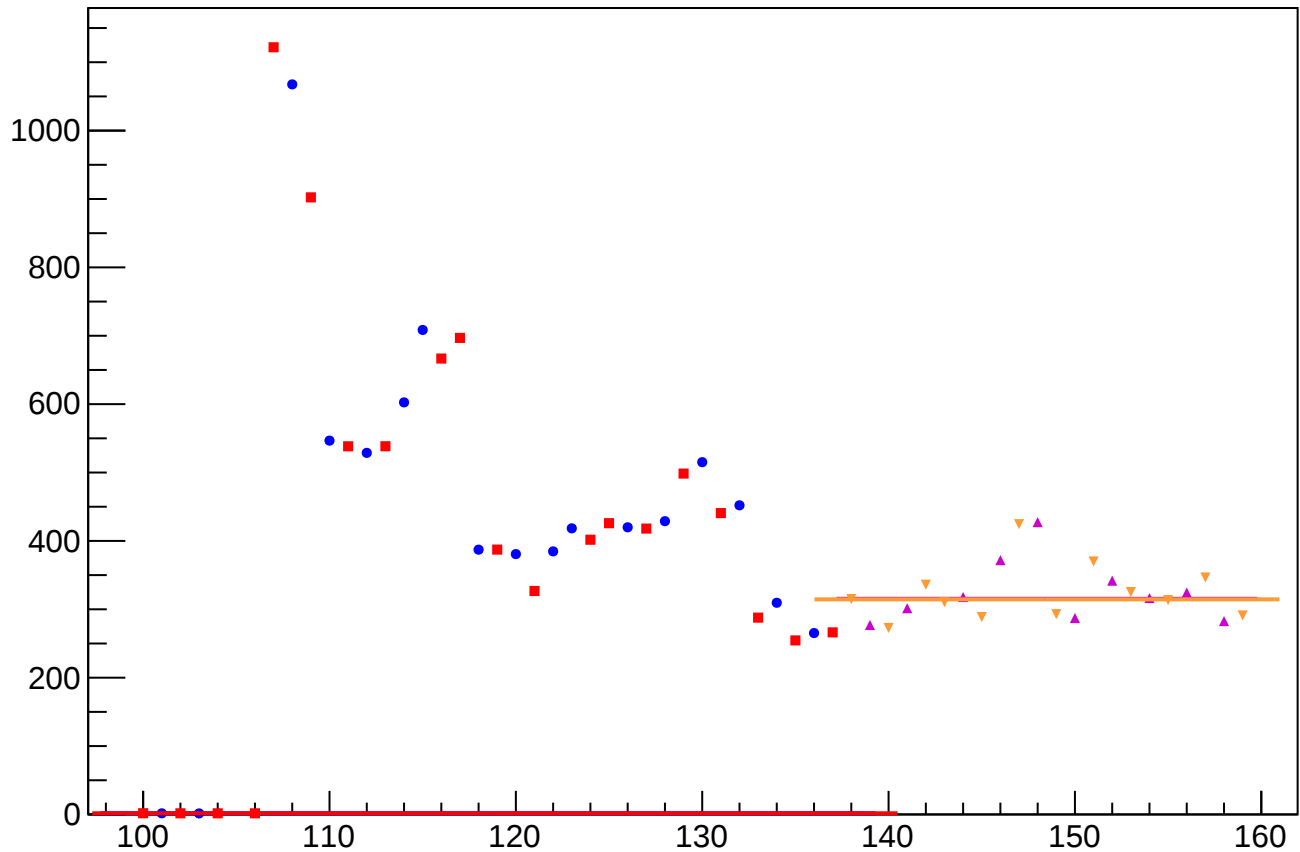
Right Out: 0.001 ± 0.002 $\chi^2/\text{NDF}: 18.3/19$

Left In: 0.192 ± 0.112 $\chi^2/\text{NDF}: 18.1/9$

0.000 ± 0.002 $\chi^2/\text{NDF}: 25.1/28$

0.001 ± 0.002 $\chi^2/\text{NDF}: 39.4/29$

diff_cav4dY_rms vs Slug



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

Left Out: 314.540+/-0.075 χ^2/NDF : 225044.1/11

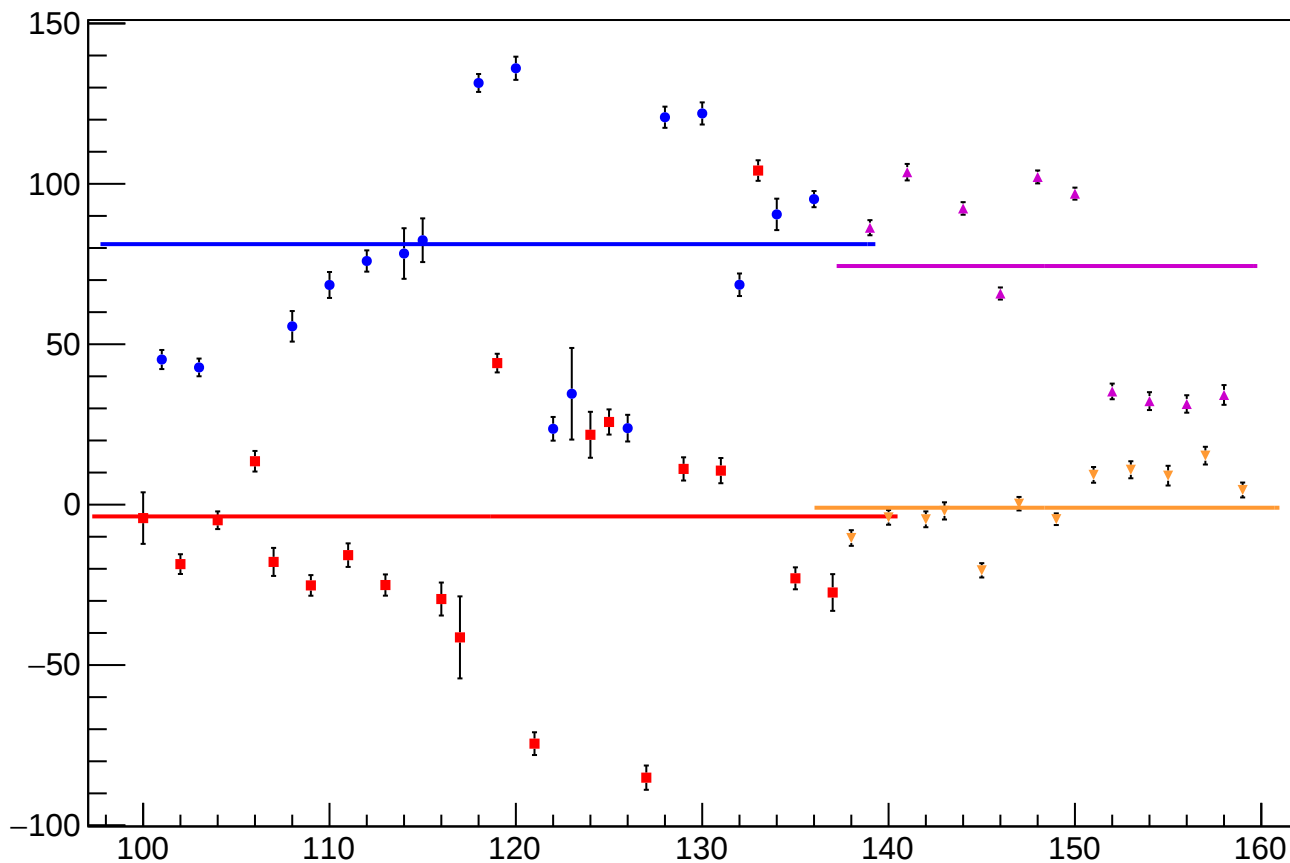
Right Out: 1.729+/-0.001 χ^2/NDF : 10829914.3/19

Left In: 315.346+/-0.079 χ^2/NDF : 223776.1/9

1.813+/-0.001 χ^2/NDF : 28673999.1/28

1.823+/-0.001 χ^2/NDF : 26812075.7/29

diff_bpm0i01X_mean vs Slug



Right In: 81.201 $\pm$ 0.886 χ^2 /NDF: 1709.8/16

Left Out: -0.961 $\pm$ 0.687 χ^2 /NDF:187.5/11

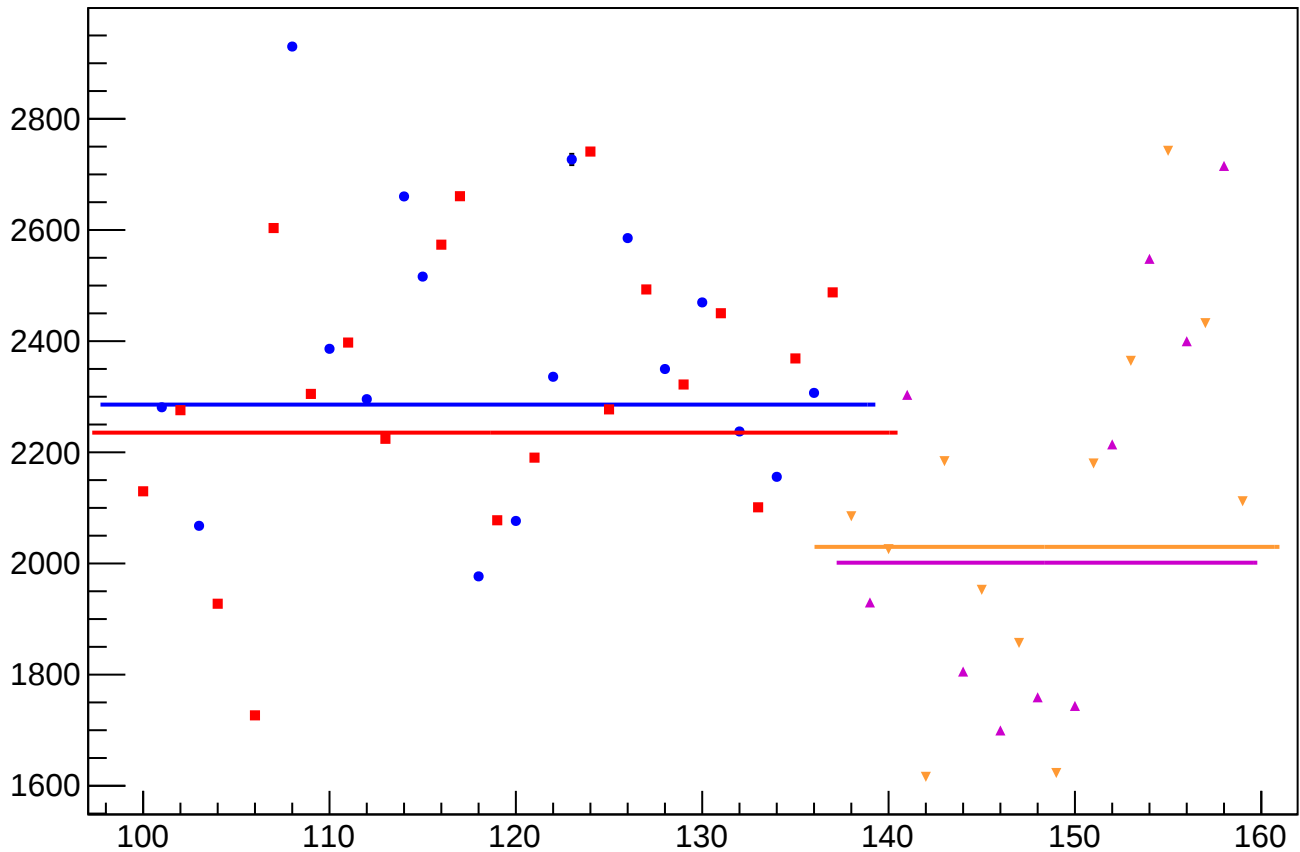
Right Out: -3.672 $\pm$ 0.841 χ^2 /NDF: 2607.8/19

Left In: 74.382 $\pm$ 0.718 χ^2 /NDF:1498.9/9

29.881 $\pm$ 0.543 χ^2 /NDF: 7272.5/28

41.456 $\pm$ 0.546 χ^2 /NDF: 9090.6/29

diff_bpm0i01X_rms vs Slug



Right In: 2285.855+/-0.626 χ^2/NDF : 109336.5/16

Left Out: 2029.881+/-0.486 χ^2/NDF : 371762.9/11

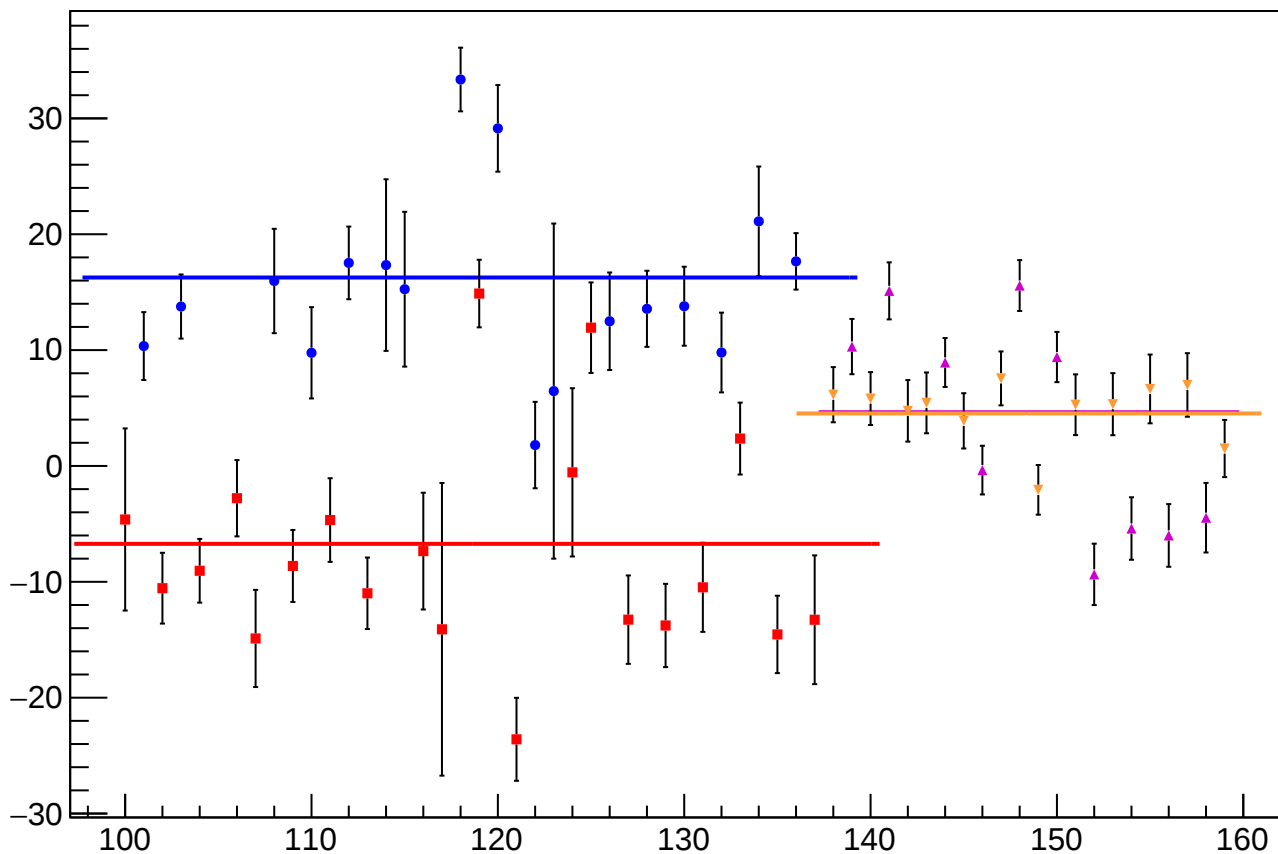
Right Out: 2235.394+/-0.594 χ^2/NDF : 149072.1/19

Left In: 2001.393+/-0.508 χ^2/NDF : 409857.8/9

2125.969+/-0.384 χ^2/NDF : 585444.9/28

2100.103+/-0.386 χ^2/NDF : 648516.1/29

diff_bpm0i01Y_mean vs Slug



Right In: 16.265 ± 0.872 χ^2/NDF : 80.8/16

Left Out: 4.532 ± 0.720 χ^2/NDF : 15.1/11

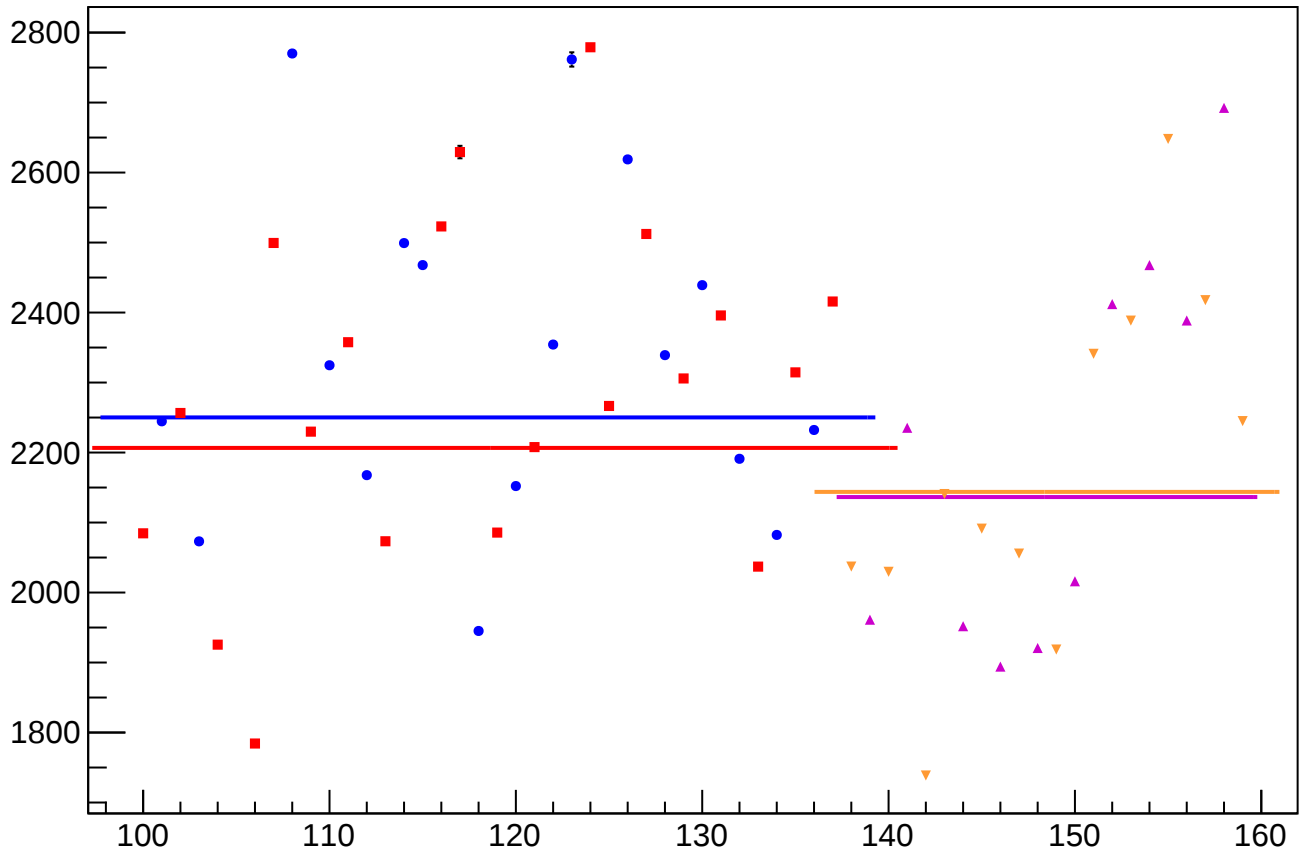
Right Out: -6.722 ± 0.829 χ^2/NDF : 134.3/19

Left In: 4.638 ± 0.758 χ^2/NDF : 129.5/9

9.292 ± 0.555 χ^2/NDF : 203.7/28

-0.538 ± 0.560 χ^2/NDF : 366.0/29

diff_bpm0i01Y_rms vs Slug



Right In: 2250.175+/-0.616 χ^2/NDF : 97578.1/16

Left Out: 2143.783+/-0.509 χ^2/NDF : 190563.6/11

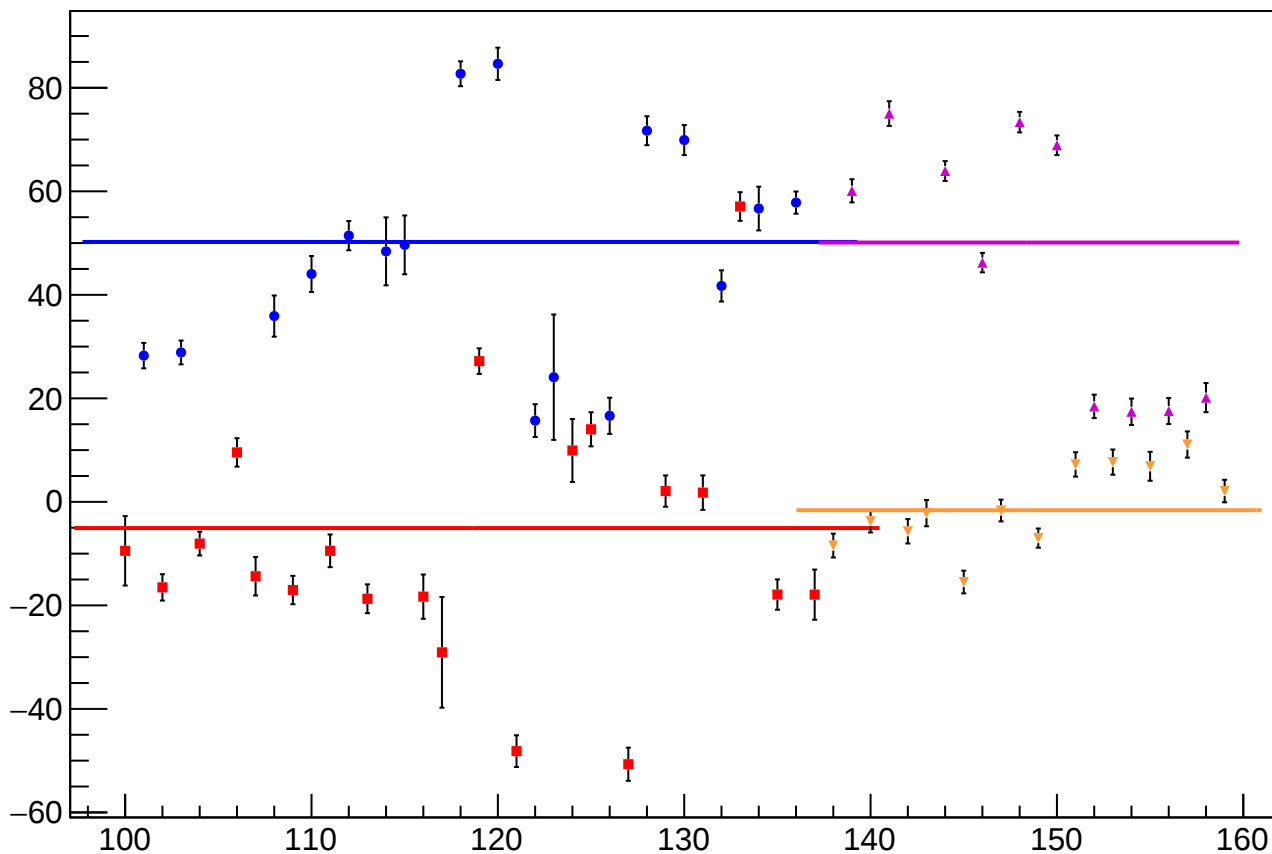
Right Out: 2206.617+/-0.586 χ^2/NDF : 128476.5/19

Left In: 2136.401+/-0.536 χ^2/NDF : 219108.6/9

2186.947+/-0.393 χ^2/NDF : 305855.1/28

2168.391+/-0.396 χ^2/NDF : 355397.0/29

diff_bpm0i01aX_mean vs Slug



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

Left Out: -1.621+/-0.659 χ^2/NDF : 127.0/11

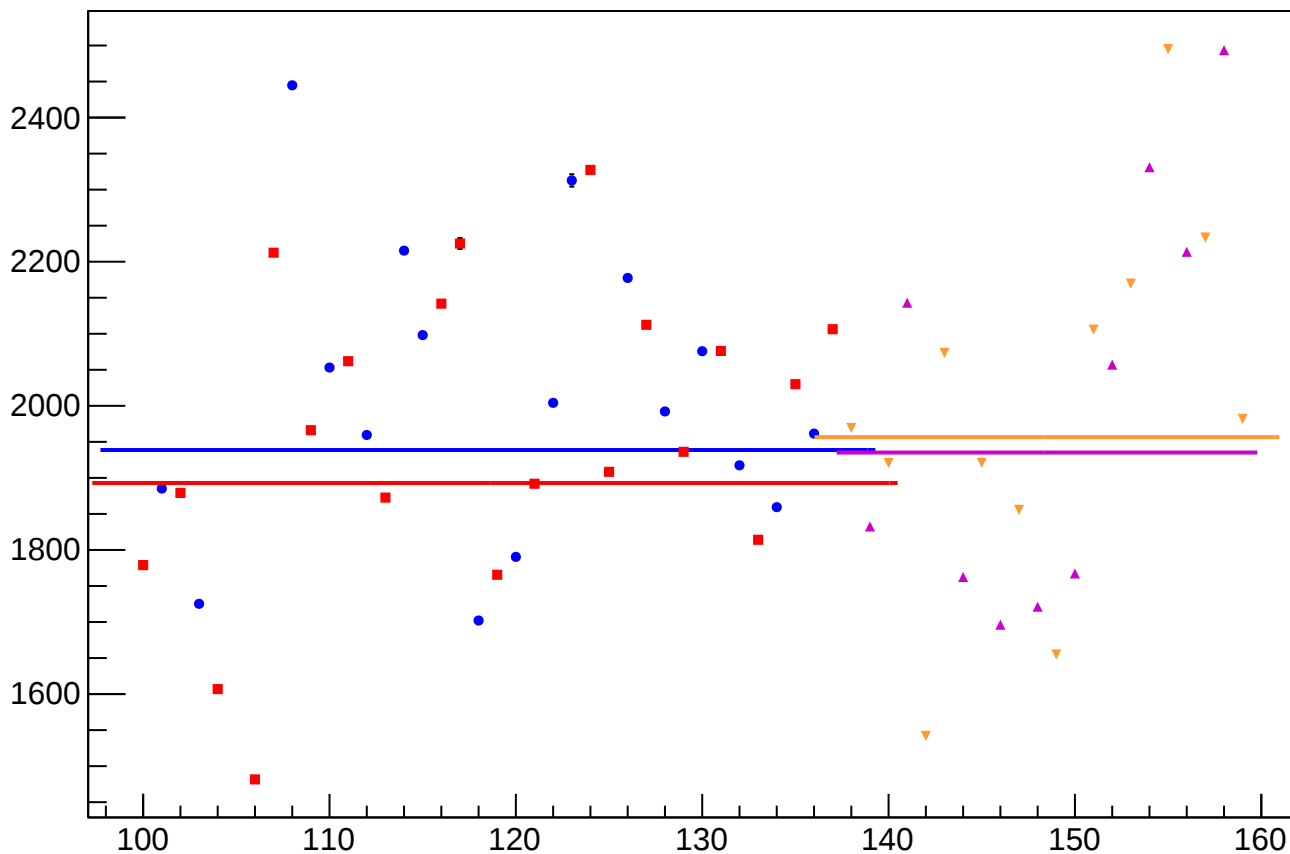
Right Out: -5.065+/-0.712 χ^2/NDF : 1267.6/19

Left In: 50.101+/-0.691 χ^2/NDF : 1062.5/9

20.930+/-0.495 χ^2/NDF : 3650.4/28

23.350+/-0.496 χ^2/NDF : 5423.9/29

diff_bpm0i01aX_rms vs Slug



Right In: 1938.688+/-0.531 χ^2/NDF : 100143.1/16

Left Out: 1956.557+/-0.466 χ^2/NDF : 246694.7/11

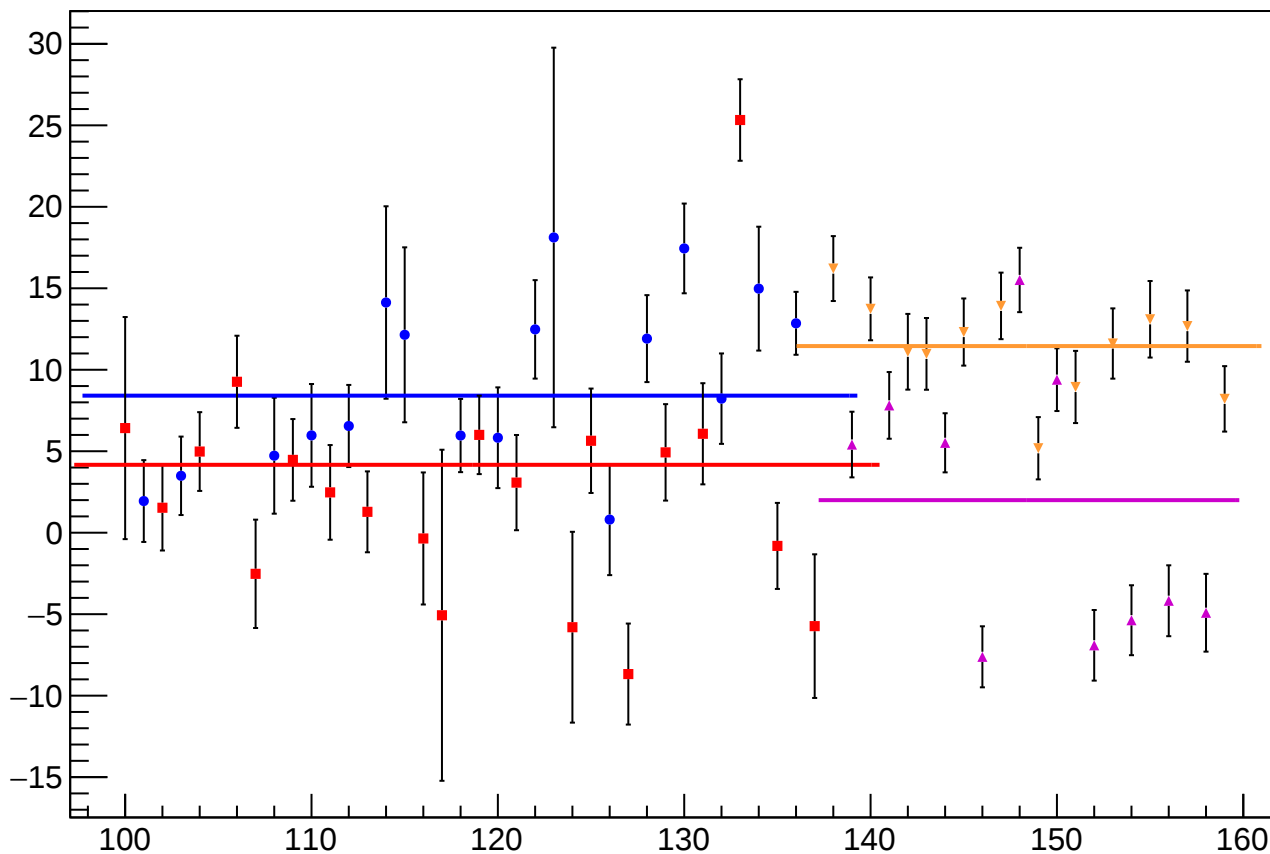
Right Out: 1892.946+/-0.503 χ^2/NDF : 148563.2/19

Left In: 1935.189+/-0.488 χ^2/NDF : 264265.8/9

1948.784+/-0.350 χ^2/NDF : 347477.9/28

1914.705+/-0.351 χ^2/NDF : 416457.1/29

diff_bpm0i01aY_mean vs Slug



Right In: 8.411+/-0.711 χ^2/NDF : 44.6/16

Left Out: 11.453+/-0.607 χ^2/NDF : 24.3/11

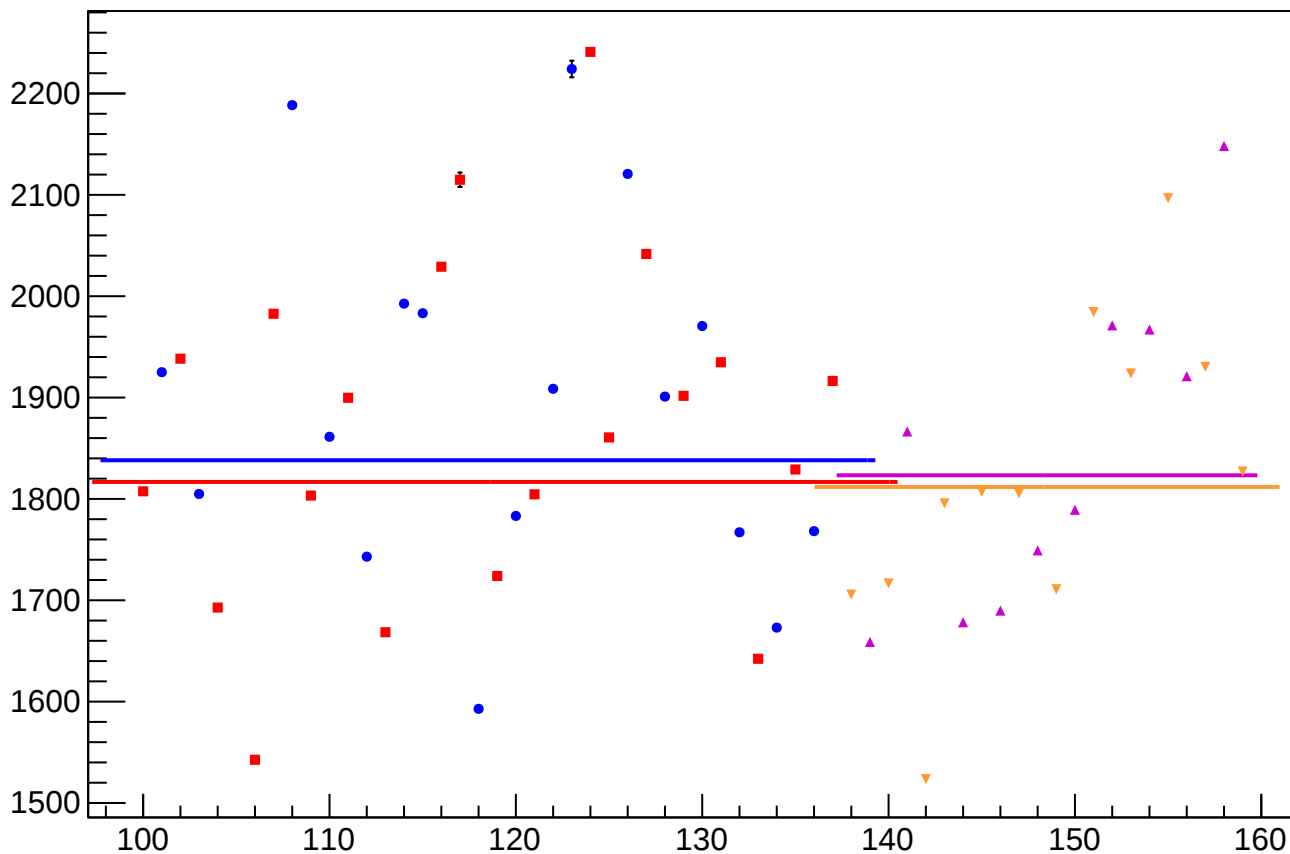
Right Out: 4.167+/-0.681 χ^2/NDF : 113.9/19

Left In: 1.998+/-0.643 χ^2/NDF : 147.7/9

10.172+/-0.462 χ^2/NDF : 79.4/28

3.021+/-0.468 χ^2/NDF : 267.0/29

diff_bpm0i01aY_rms vs Slug



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

Left Out: 1811.820 $\pm$ 0.429 χ^2 /NDF: 99958.0/11

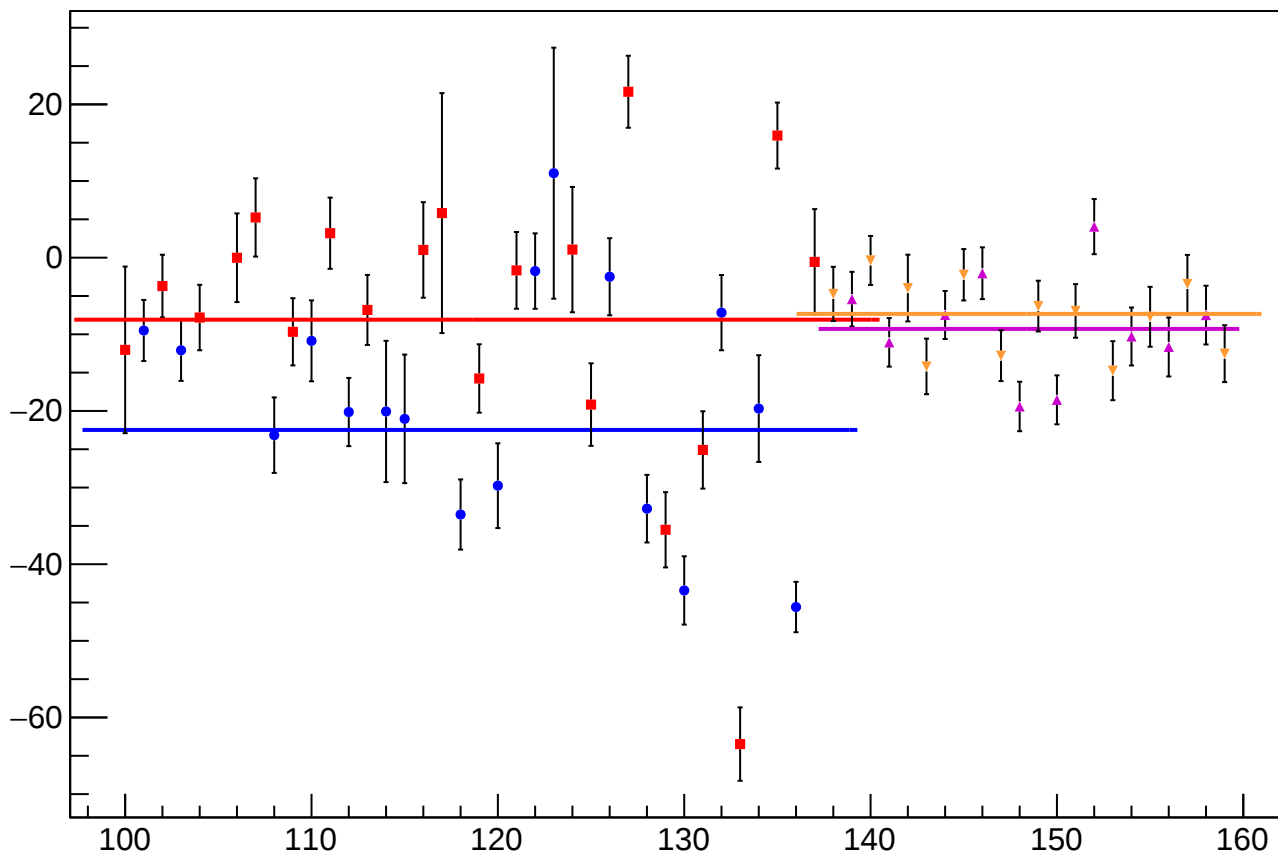
Right Out: 1816.748 $\pm$ 0.481 χ^2 /NDF: 89149.7/19

Left In: 1823.298 $\pm$ 0.455 χ^2 /NDF: 100015.0/9

1822.903 $\pm$ 0.326 χ^2 /NDF: 184422.9/28

1820.209 $\pm$ 0.331 χ^2 /NDF: 189262.5/29

diff_bpm0l01X_mean vs Slug



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

Left Out: -7.338 ± 1.034 χ^2/NDF : 21.3/11

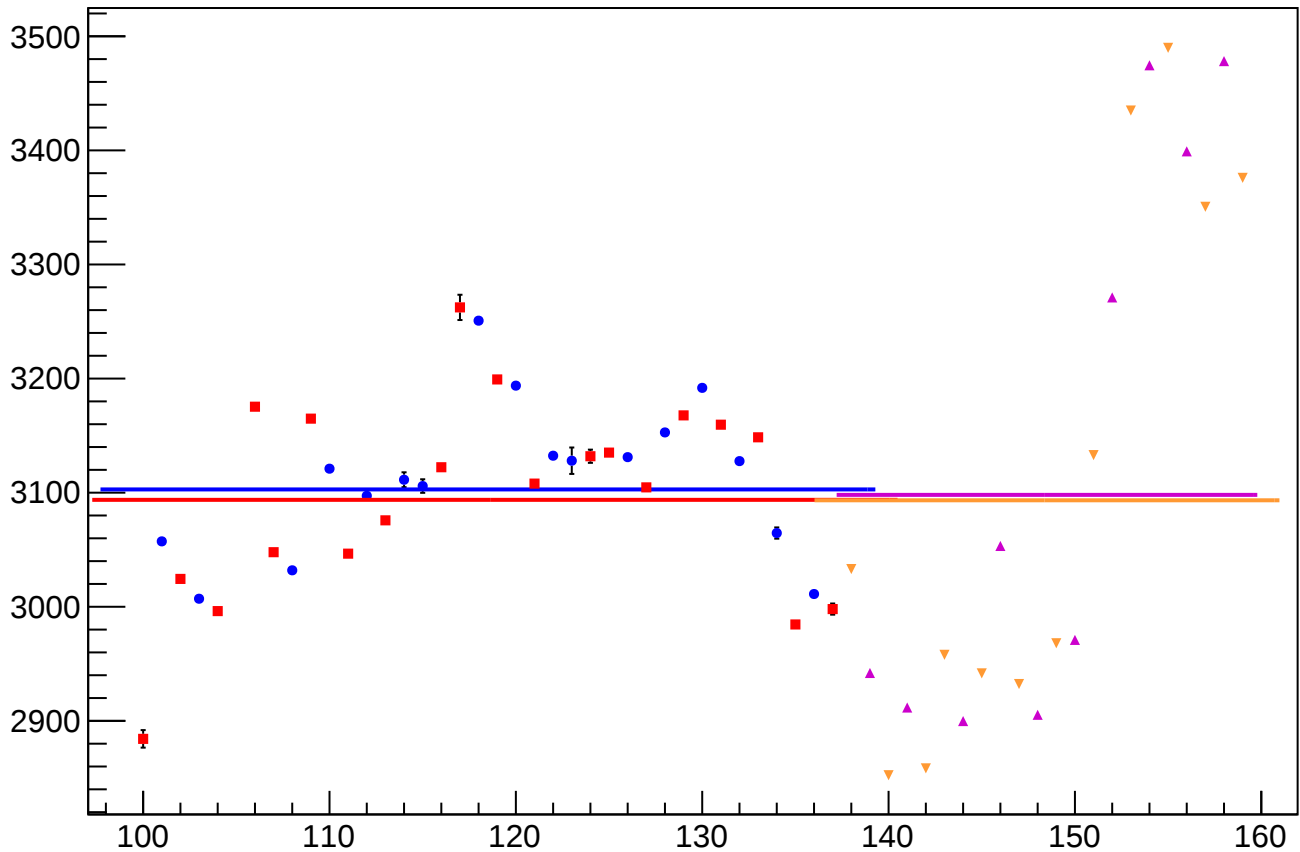
Right Out: -8.093 ± 1.153 χ^2/NDF : 277.7/19

Left In: -9.298 ± 1.088 χ^2/NDF : 39.2/9

-13.824 ± 0.782 χ^2/NDF : 267.8/28

-8.731 ± 0.791 χ^2/NDF : 317.4/29

diff_bpm0l01X_rms vs Slug



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

Left Out: 3093.320 $\pm$ 0.731 χ^2 /NDF:89655.6/11

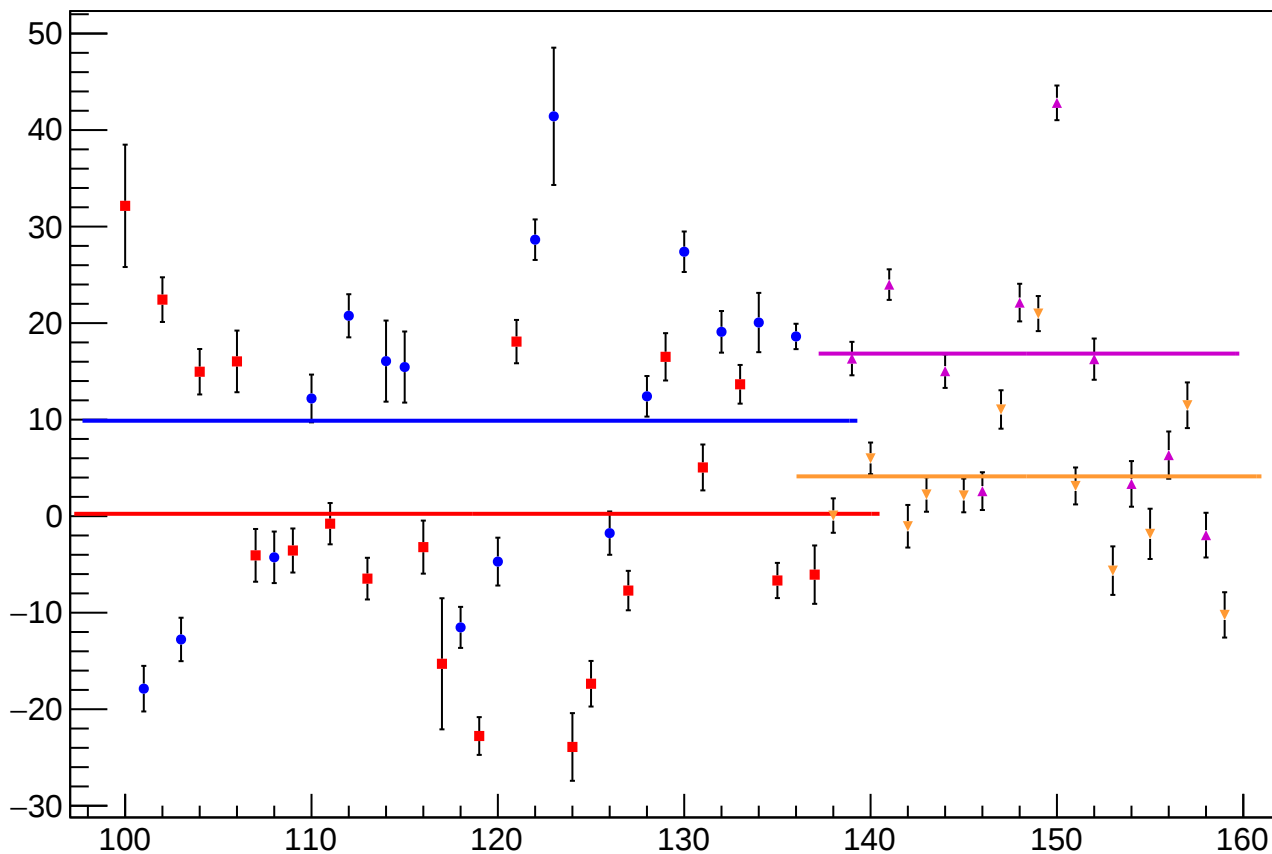
Right Out: 3093.715 $\pm$ 0.816 χ^2 /NDF: 7996.8/19

Left In: 3098.075 $\pm$ 0.769 χ^2 /NDF:85854.3/9

3097.401 $\pm$ 0.553 χ^2 /NDF: 97073.2/28

3096.023 $\pm$ 0.560 χ^2 /NDF: 93866.3/29

diff_bpm0l01Y_mean vs Slug



Right In: 9.887 $\pm$ 0.559 χ^2 /NDF: 703.6/16

Left Out: 4.123 $\pm$ 0.575 χ^2 /NDF:180.3/11

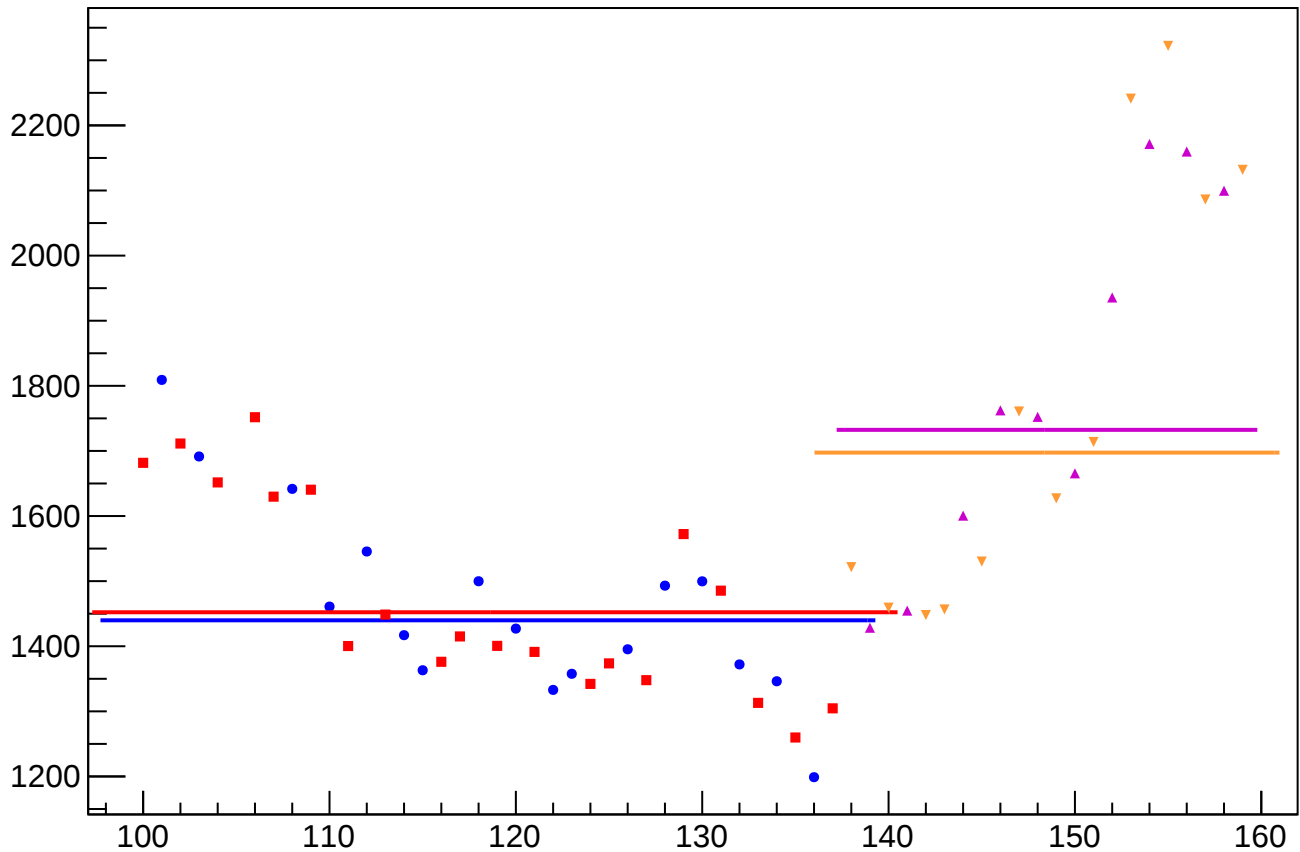
Right Out: 0.245 $\pm$ 0.545 χ^2 /NDF: 634.1/19

Left In: 16.841 $\pm$ 0.614 χ^2 /NDF:408.4/9

7.083 $\pm$ 0.401 χ^2 /NDF: 935.5/28

7.555 $\pm$ 0.408 χ^2 /NDF: 1450.8/29

diff_bpm0l01Y_rms vs Slug



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

Left Out: 1697.424 $\pm$ 0.406 χ^2 /NDF: 478168.3/11

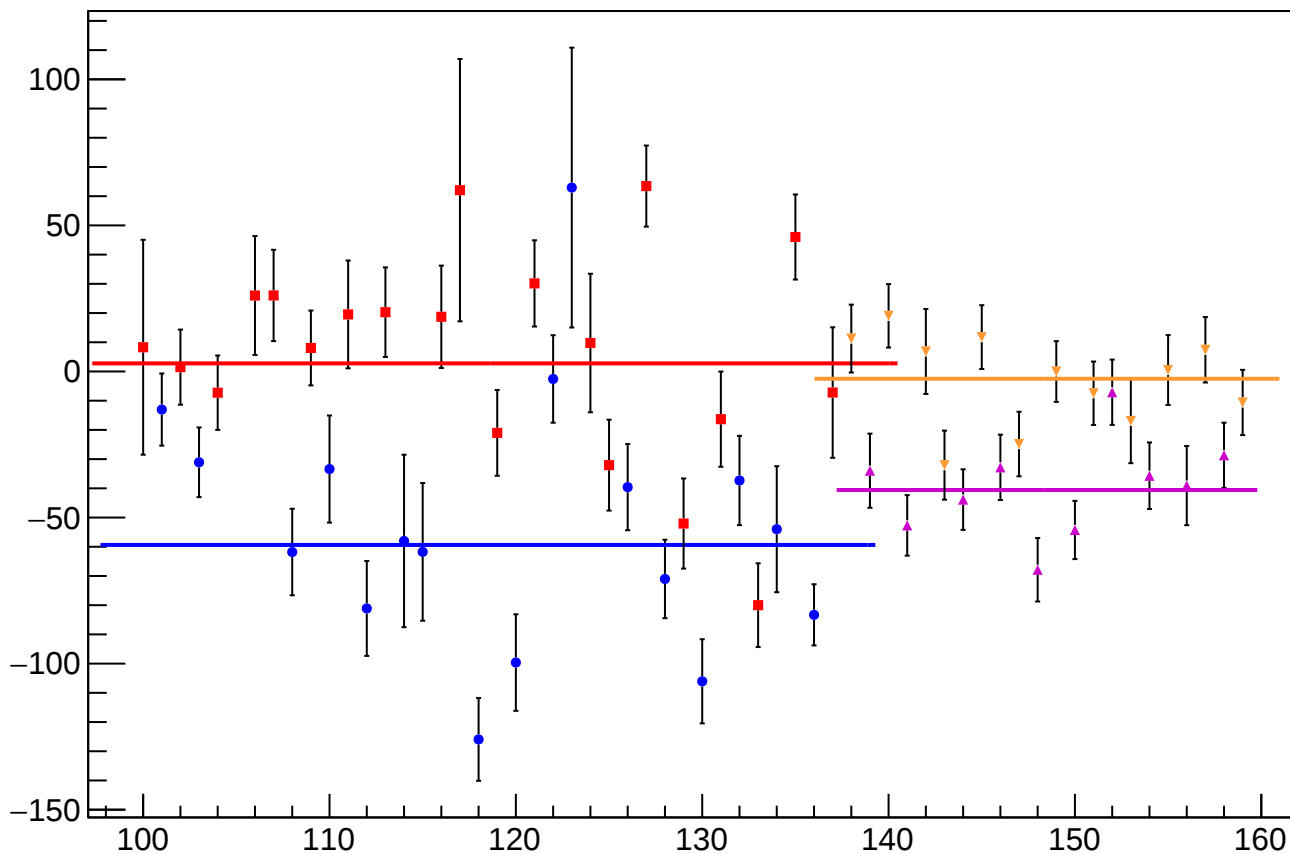
Right Out: 1452.211 $\pm$ 0.385 χ^2 /NDF: 138579.9/19

Left In: 1732.383 $\pm$ 0.434 χ^2 /NDF: 336388.0/9

1565.147 $\pm$ 0.283 χ^2 /NDF: 857257.4/28

1575.615 $\pm$ 0.288 χ^2 /NDF: 707672.6/29

diff_bpm0l02X_mean vs Slug



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

Left Out: -2.497 ± 3.336 $\chi^2/\text{NDF}: 20.4/11$

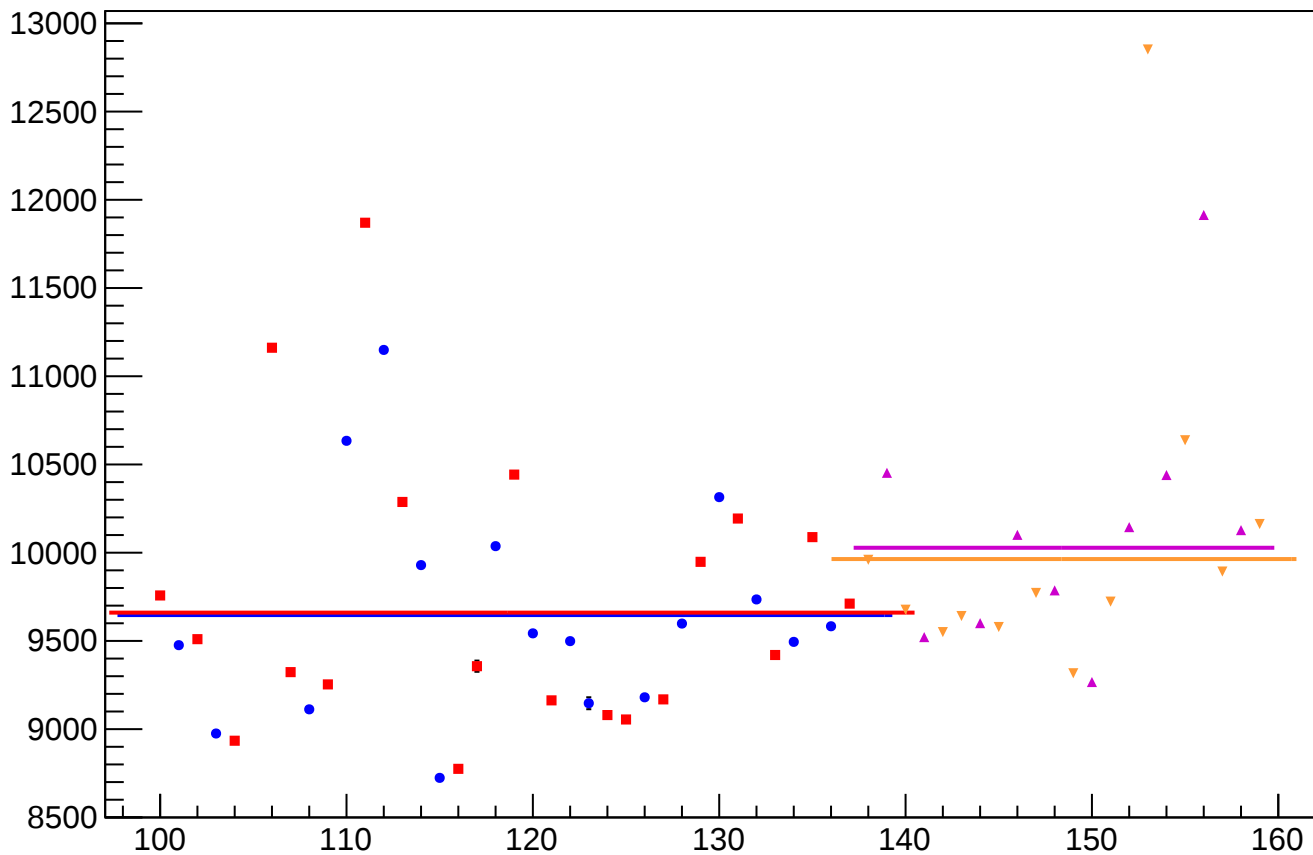
Right Out: 2.776 ± 3.618 $\chi^2/\text{NDF}: 95.7/19$

Left In: -40.571 ± 3.523 $\chi^2/\text{NDF}: 20.7/9$

-27.779 ± 2.486 $\chi^2/\text{NDF}: 242.6/28$

-19.475 ± 2.524 $\chi^2/\text{NDF}: 190.1/29$

diff_bpm0l02X_rms vs Slug



Right In: 9646.480 ± 2.637 $\chi^2/\text{NDF}: 44060.3/16$

Left Out: 9963.994 ± 2.359 $\chi^2/\text{NDF}: 103310.3/11$

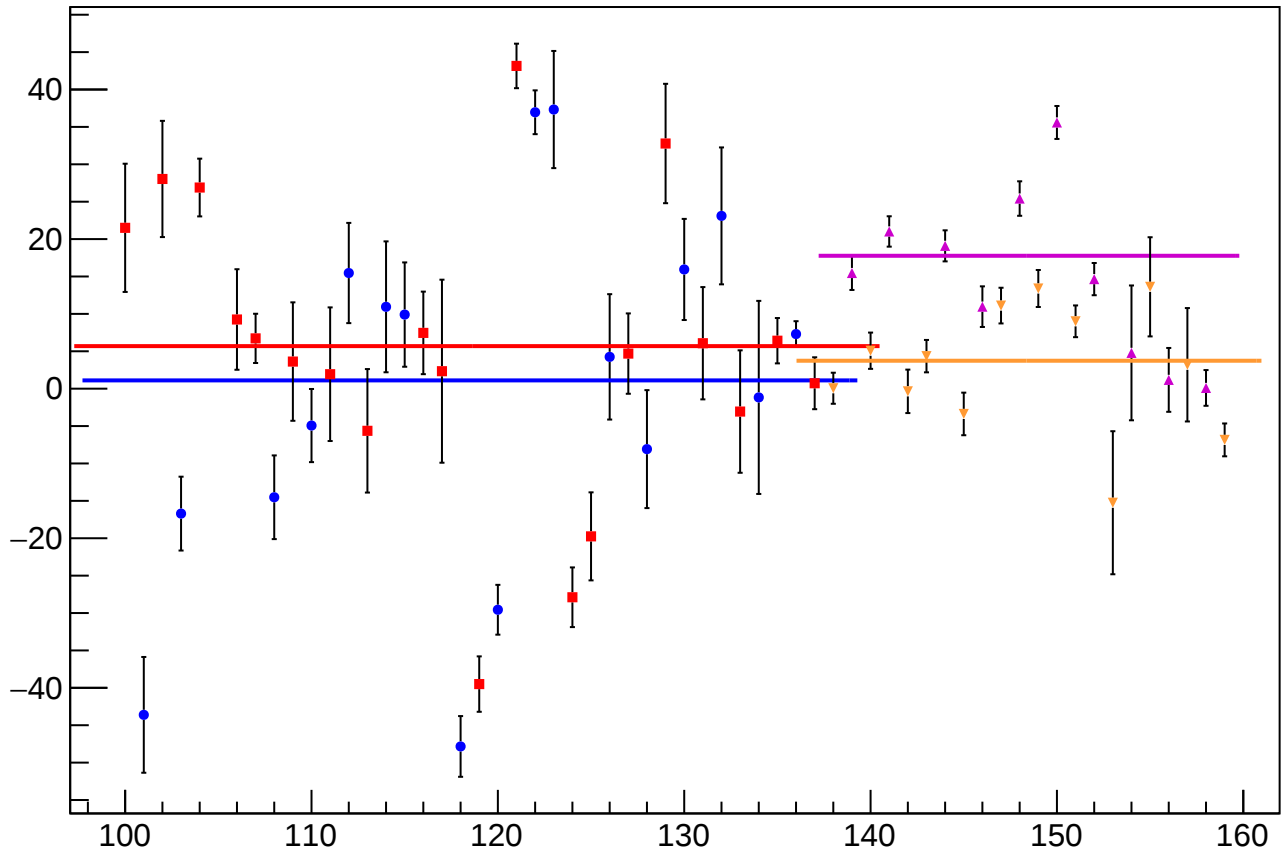
Right Out: 9660.380 ± 2.558 $\chi^2/\text{NDF}: 77676.0/19$

Left In: 10027.965 ± 2.491 $\chi^2/\text{NDF}: 64847.5/9$

9822.855 ± 1.758 $\chi^2/\text{NDF}: 155426.0/28$

9849.070 ± 1.785 $\chi^2/\text{NDF}: 153121.7/29$

diff_bpm0l02Y_mean vs Slug



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$

Left Out: 3.735 ± 0.772 $\chi^2/\text{NDF}: 72.1/11$

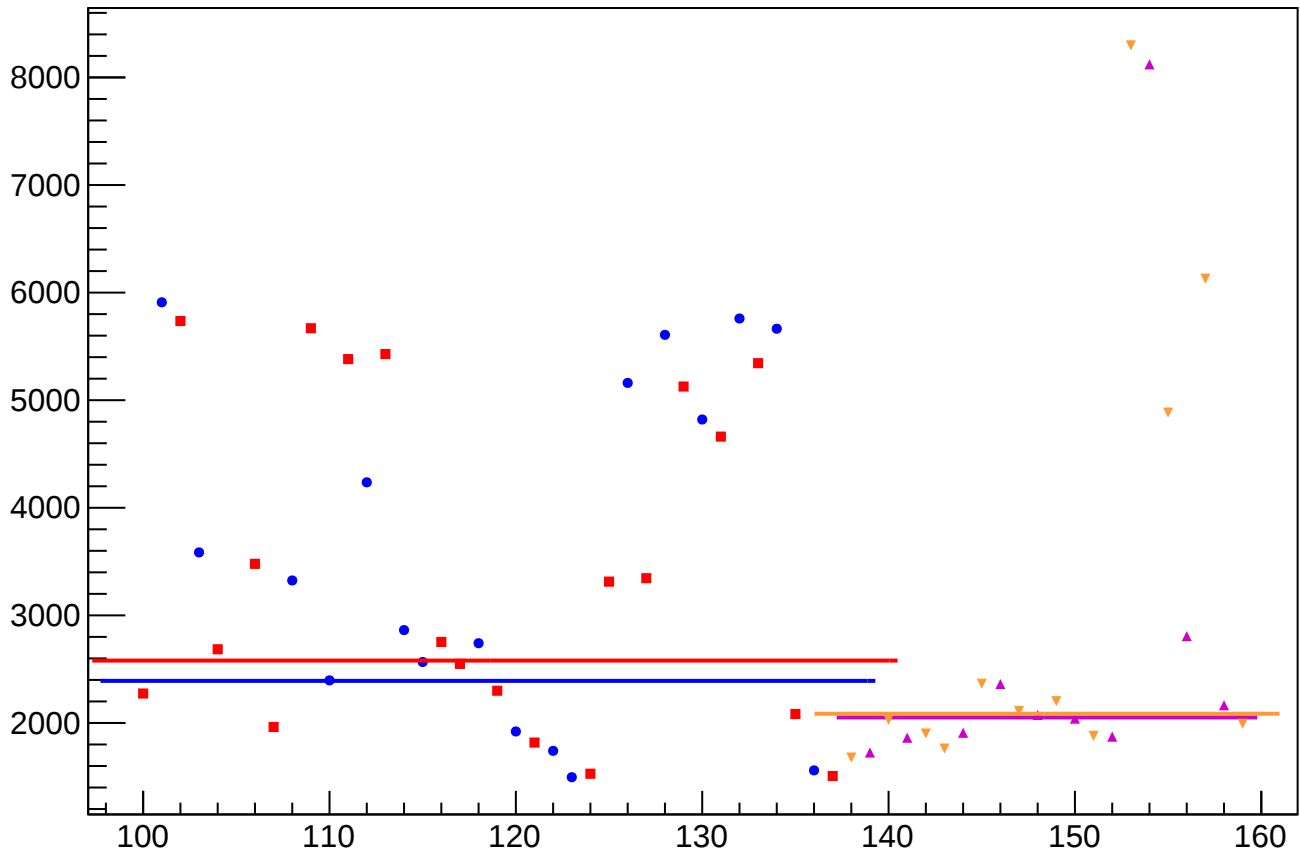
Right Out: 5.689 ± 1.087 $\chi^2/\text{NDF}: 456.0/19$

Left In: 17.770 ± 0.777 $\chi^2/\text{NDF}: 160.7/9$

2.831 ± 0.626 $\chi^2/\text{NDF}: 565.8/28$

13.683 ± 0.632 $\chi^2/\text{NDF}: 698.5/29$

diff_bpm0l02Y_rms vs Slug



Right In: 2391.162+/-0.754 χ^2/NDF : 2600547.2/16

Left Out: 2085.653+/-0.546 χ^2/NDF : 1946216.3/11

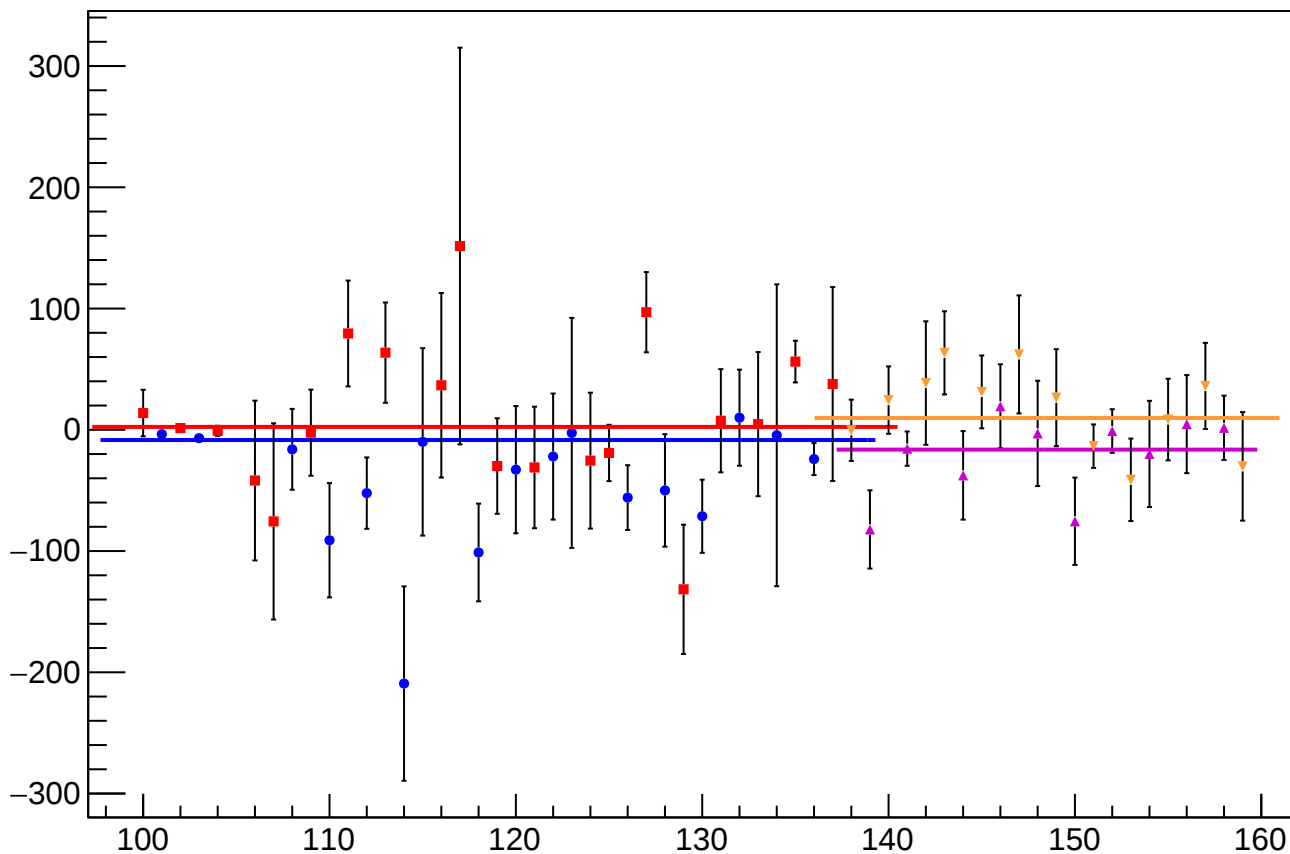
Right Out: 2579.794+/-0.768 χ^2/NDF : 2365284.2/19

Left In: 2051.071+/-0.549 χ^2/NDF : 1082272.7/9

2190.761+/-0.442 χ^2/NDF : 4654426.1/28

2229.930+/-0.447 χ^2/NDF : 3760782.2/29

diff_bpm0l03X_mean vs Slug



Right In: -8.430 ± 2.587 χ^2/NDF : 28.9/16

Left Out: 9.752 ± 8.980 χ^2/NDF : 10.3/11

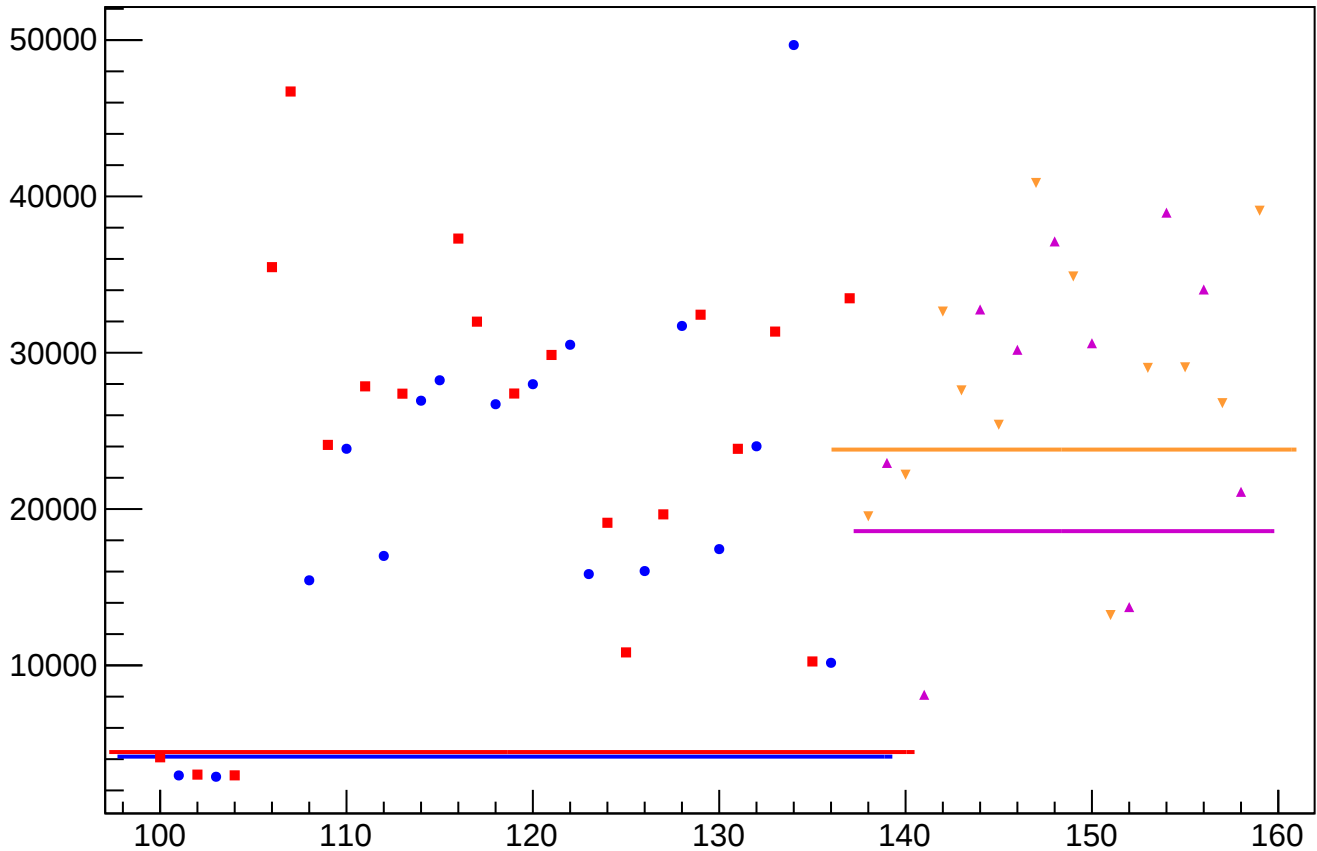
Right Out: 2.392 ± 2.786 χ^2/NDF : 35.5/19

Left In: -16.344 ± 8.307 χ^2/NDF : 9.8/9

-7.036 ± 2.486 χ^2/NDF : 43.0/28

0.497 ± 2.642 χ^2/NDF : 49.9/29

diff_bpm0l03X_rms vs Slug



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

Left Out: 23804.286+/-6.350 χ^2/NDF : 1592043.1/11

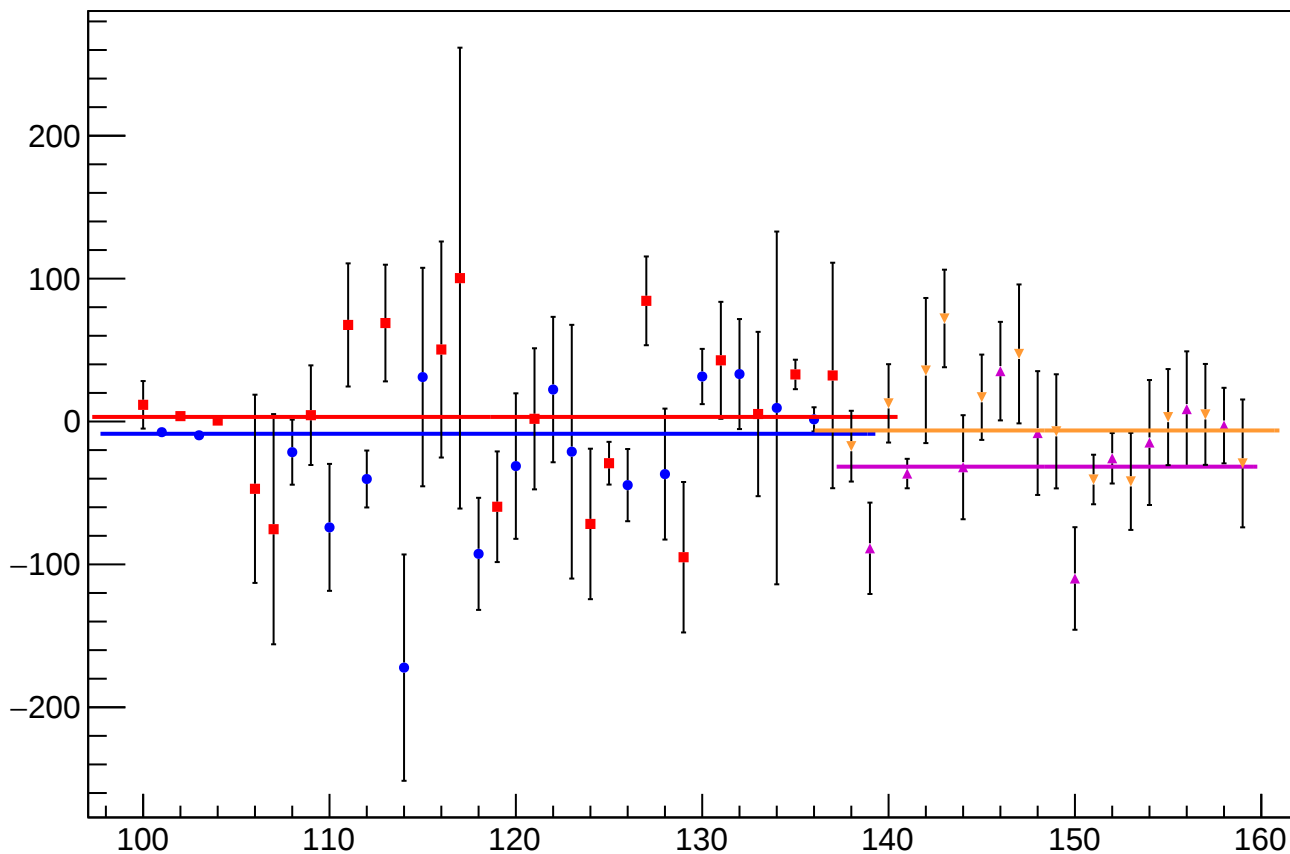
Right Out: 4455.114+/-1.970 χ^2/NDF : 7483602.5/19

Left In: 18587.150+/-5.874 χ^2/NDF : 3135424.5/9

5667.896+/-1.758 χ^2/NDF : 16416641.2/28

5884.494+/-1.868 χ^2/NDF : 15822431.3/29

diff_bpm0l03Y_mean vs Slug



Right In: -8.586 ± 1.778 χ^2/NDF : 24.4/16

Left Out: -6.272 ± 8.854 χ^2/NDF : 13.9/11

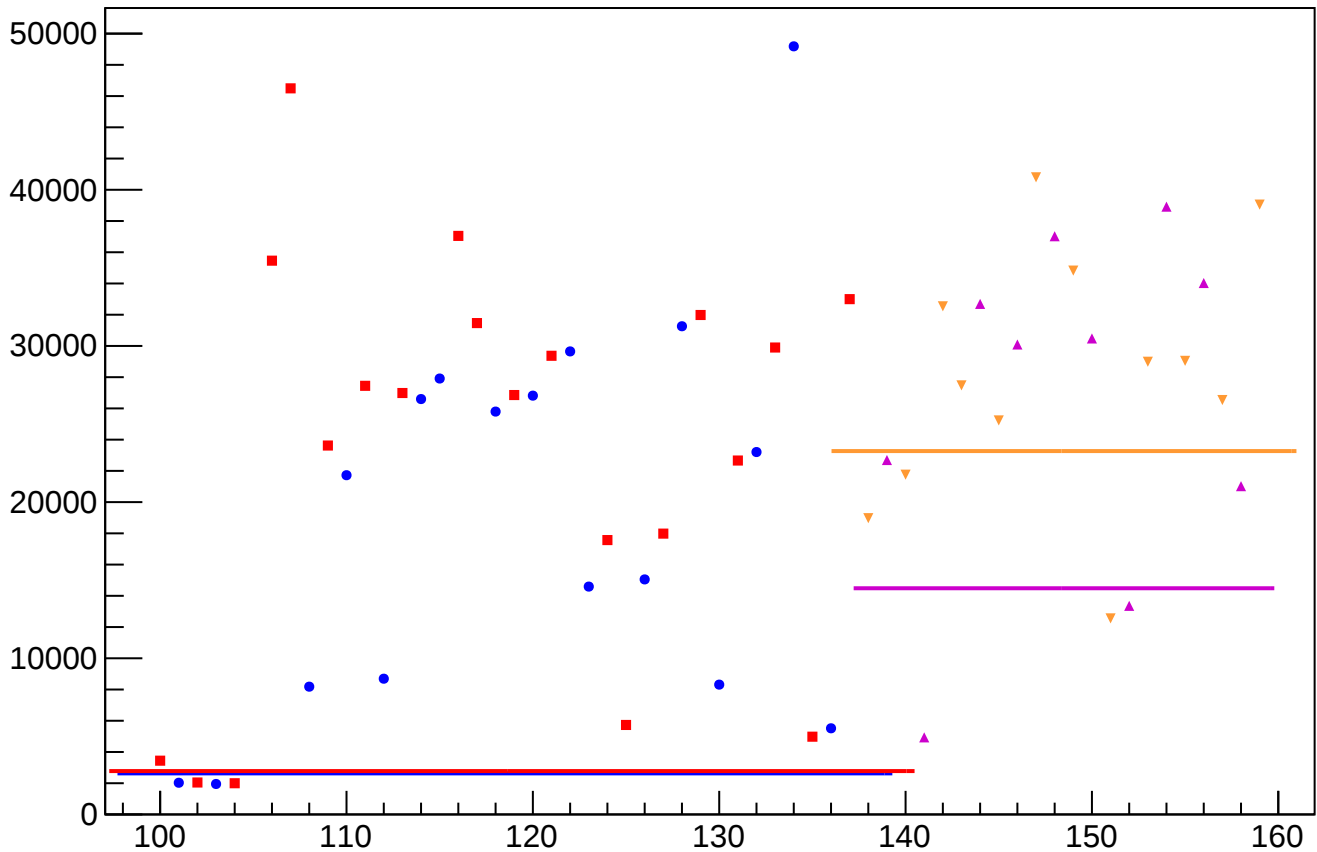
Right Out: 3.208 ± 1.922 χ^2/NDF : 37.2/19

Left In: -31.607 ± 7.243 χ^2/NDF : 14.7/9

-8.497 ± 1.743 χ^2/NDF : 38.4/28

0.918 ± 1.858 χ^2/NDF : 73.5/29

diff_bpm0l03Y_rms vs Slug



Right In: 2630.547+/-1.257 χ^2/NDF : 5588981.6/16

Left Out: 23268.432+/-6.261 χ^2/NDF : 1744645.4/11

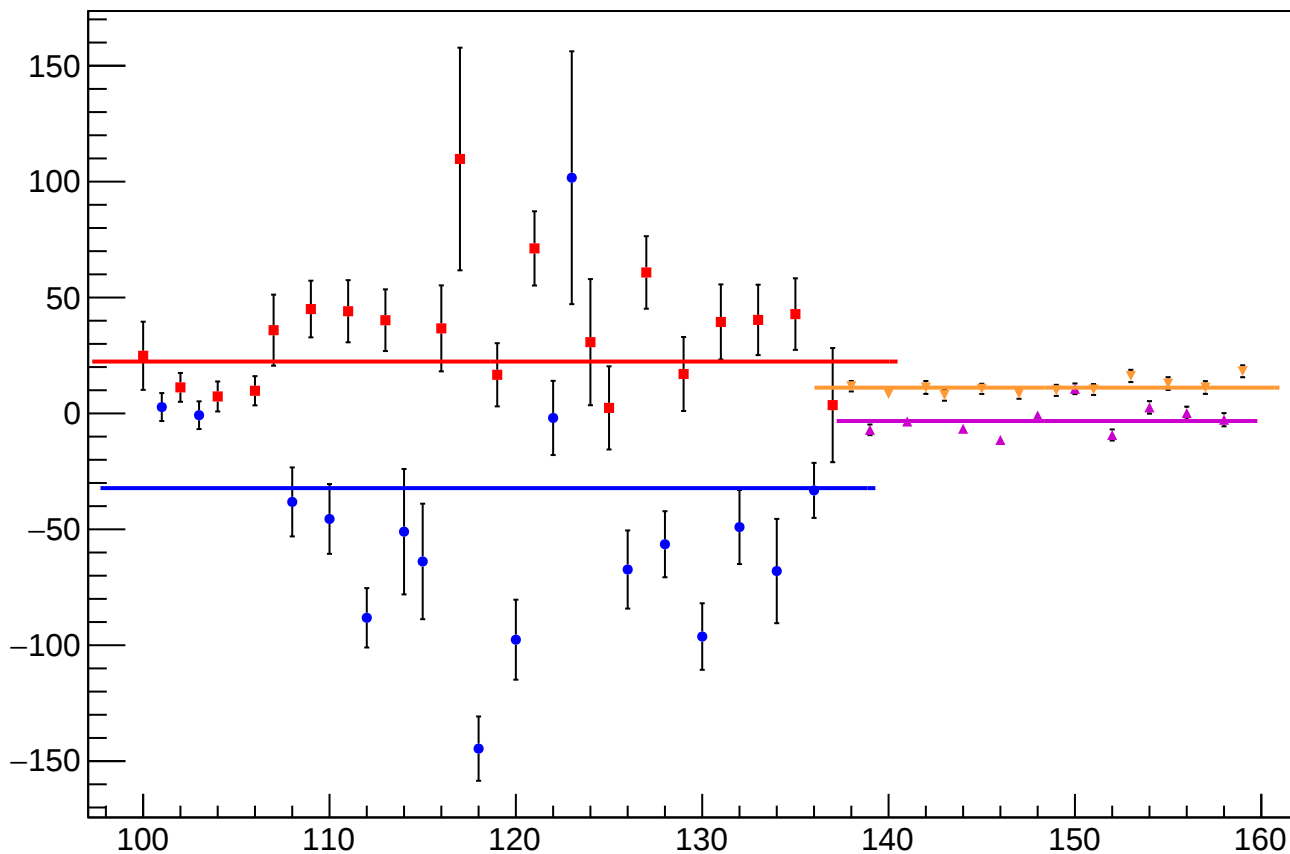
Right Out: 2777.521+/-1.359 χ^2/NDF : 7899165.0/19

Left In: 14484.145+/-5.122 χ^2/NDF : 4917278.8/9

3430.356+/-1.232 χ^2/NDF : 17779359.2/28

3547.611+/-1.314 χ^2/NDF : 17696790.4/29

diff_bpm0l04X_mean vs Slug



Right In: -32.222 ± 2.981 $\chi^2/\text{NDF}: 203.7/16$

Left Out: 11.127 ± 0.699 $\chi^2/\text{NDF}: 16.9/11$

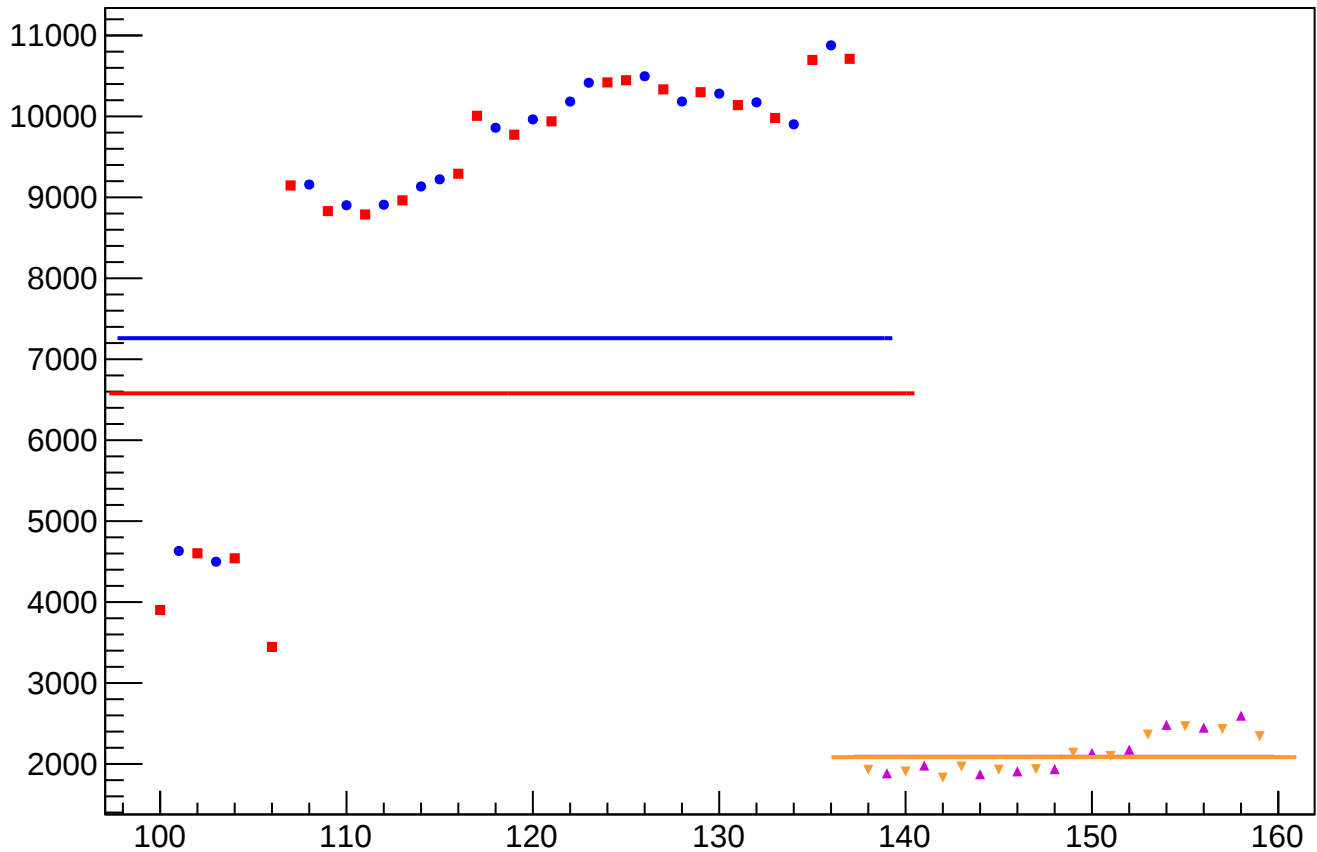
Right Out: 22.381 ± 2.665 $\chi^2/\text{NDF}: 47.0/19$

Left In: -3.272 ± 0.737 $\chi^2/\text{NDF}: 71.0/9$

8.868 ± 0.681 $\chi^2/\text{NDF}: 420.9/28$

-1.451 ± 0.710 $\chi^2/\text{NDF}: 204.0/29$

diff_bpm0l04X_rms vs Slug



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

Left Out: 2084.761 $\pm$ 0.494 χ^2 /NDF: 177081.5/11

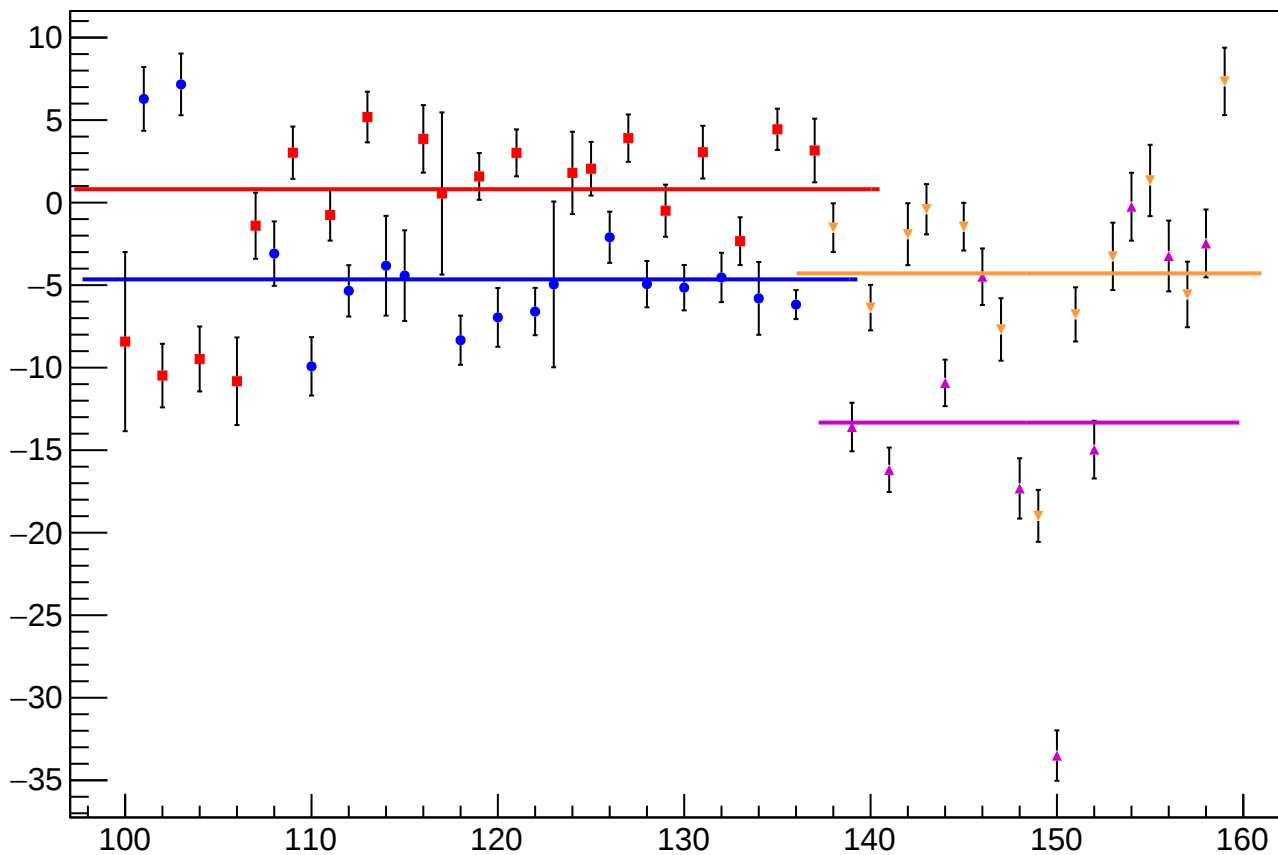
Right Out: 6578.773 $\pm$ 1.885 χ^2 /NDF: 2206772.9/19

Left In: 2088.350 $\pm$ 0.521 χ^2 /NDF: 210876.2/9

2354.464 $\pm$ 0.481 χ^2 /NDF: 7525882.9/28

2407.072 $\pm$ 0.502 χ^2 /NDF: 7692050.0/29

diff_bpm0l04Y_mean vs Slug



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

Left Out: -4.286 ± 0.489 χ^2/NDF : 150.1/11

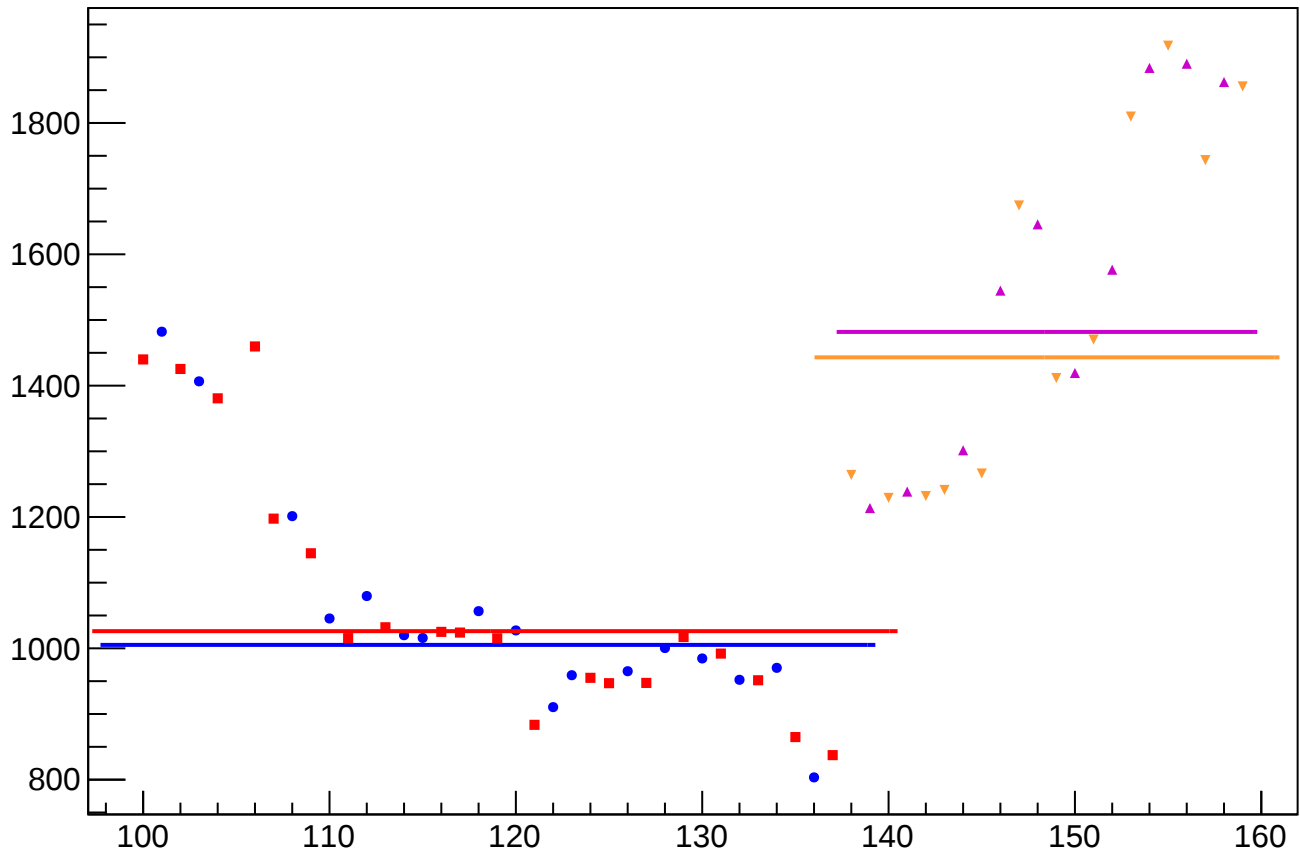
Right Out: 0.813 ± 0.387 χ^2/NDF : 123.7/19

Left In: -13.328 ± 0.527 χ^2/NDF : 304.8/9

-4.508 ± 0.306 χ^2/NDF : 248.0/28

-4.148 ± 0.312 χ^2/NDF : 896.2/29

diff_bpm0l04Y_rms vs Slug



Right In: 1005.227 $\pm$ 0.278 χ^2 /NDF: 361954.2/16

Left Out: 1443.078 $\pm$ 0.346 χ^2 /NDF: 487481.4/11

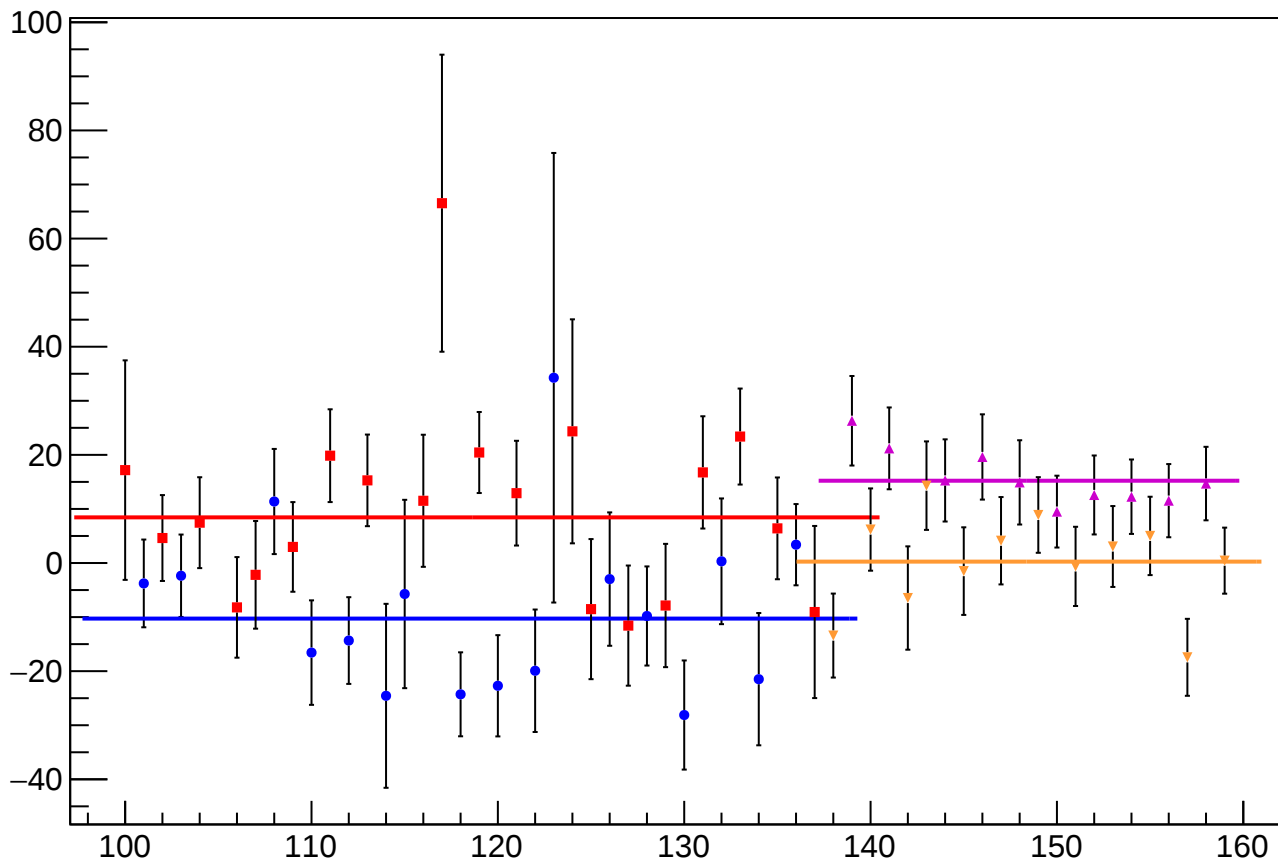
Right Out: 1026.145 $\pm$ 0.274 χ^2 /NDF: 333119.4/19

Left In: 1481.799 $\pm$ 0.373 χ^2 /NDF: 409682.6/9

1176.793 $\pm$ 0.217 χ^2 /NDF: 1824042.1/28

1186.008 $\pm$ 0.221 χ^2 /NDF: 1714067.5/29

diff_bpm0l05X_mean vs Slug



Right In: -10.277 ± 2.408 $\chi^2/\text{NDF}: 23.5/16$

Left Out: 0.258 ± 2.167 $\chi^2/\text{NDF}: 15.7/11$

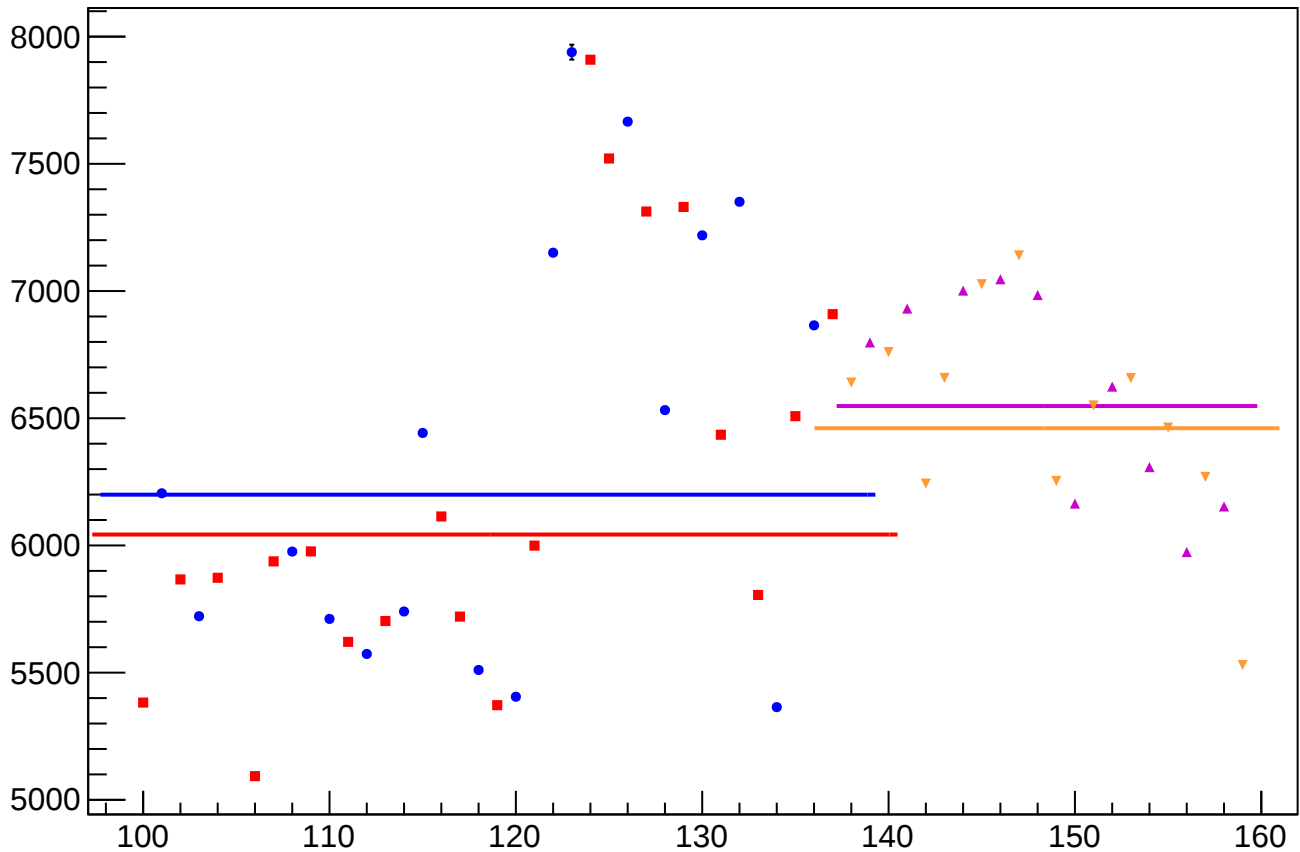
Right Out: 8.441 ± 2.271 $\chi^2/\text{NDF}: 27.3/19$

Left In: 15.217 ± 2.307 $\chi^2/\text{NDF}: 4.1/9$

-4.458 ± 1.611 $\chi^2/\text{NDF}: 49.8/28$

11.775 ± 1.618 $\chi^2/\text{NDF}: 35.7/29$

diff_bpm0l05X_rms vs Slug



Right In: 6199.617+/-1.703 χ^2/NDF : 171760.4/16

Left Out: 6460.829+/-1.533 χ^2/NDF : 81595.2/11

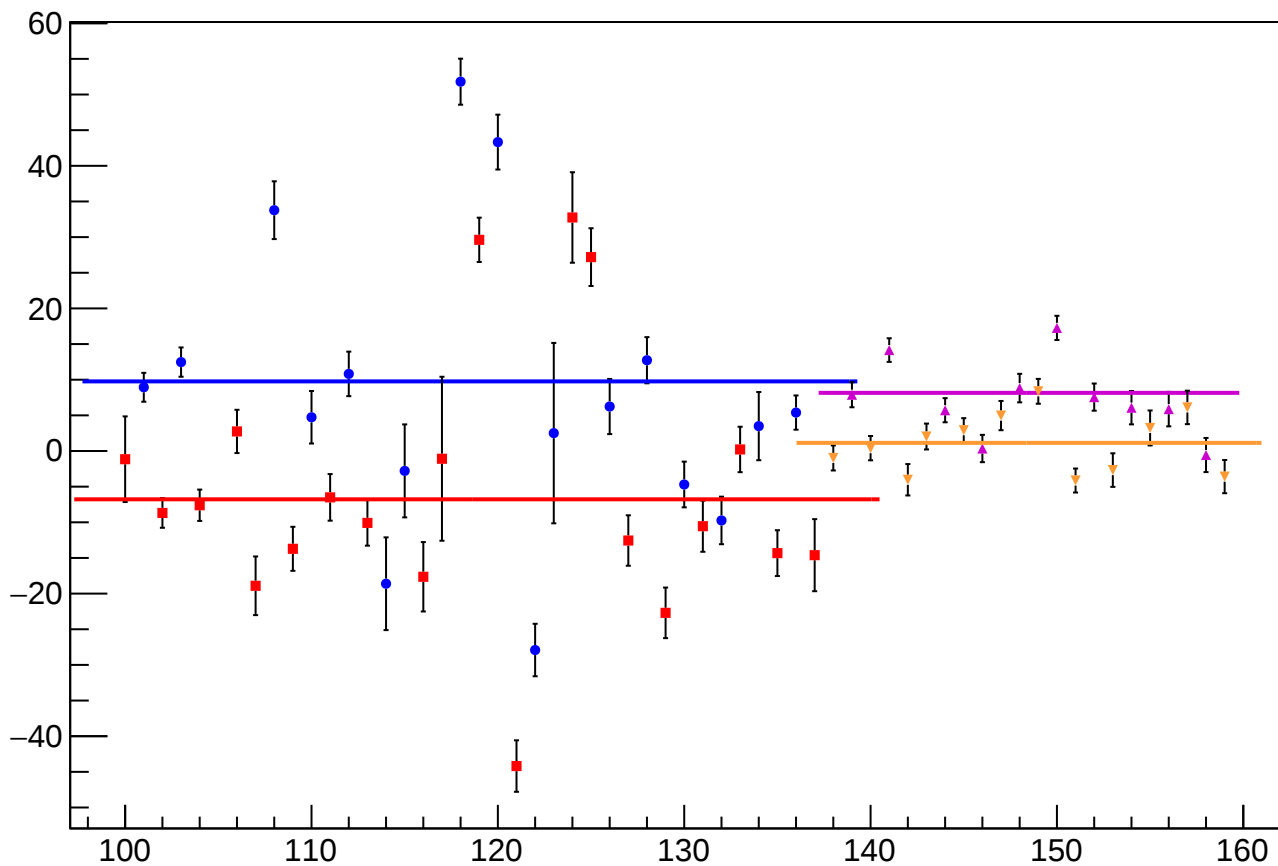
Right Out: 6042.952+/-1.606 χ^2/NDF : 158600.9/19

Left In: 6548.038+/-1.631 χ^2/NDF : 58783.9/9

6343.908+/-1.139 χ^2/NDF : 266357.8/28

6291.516+/-1.144 χ^2/NDF : 266086.7/29

diff_bpm0l05Y_mean vs Slug



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

Left Out: 1.141 ± 0.562 χ^2/NDF : 51.1/11

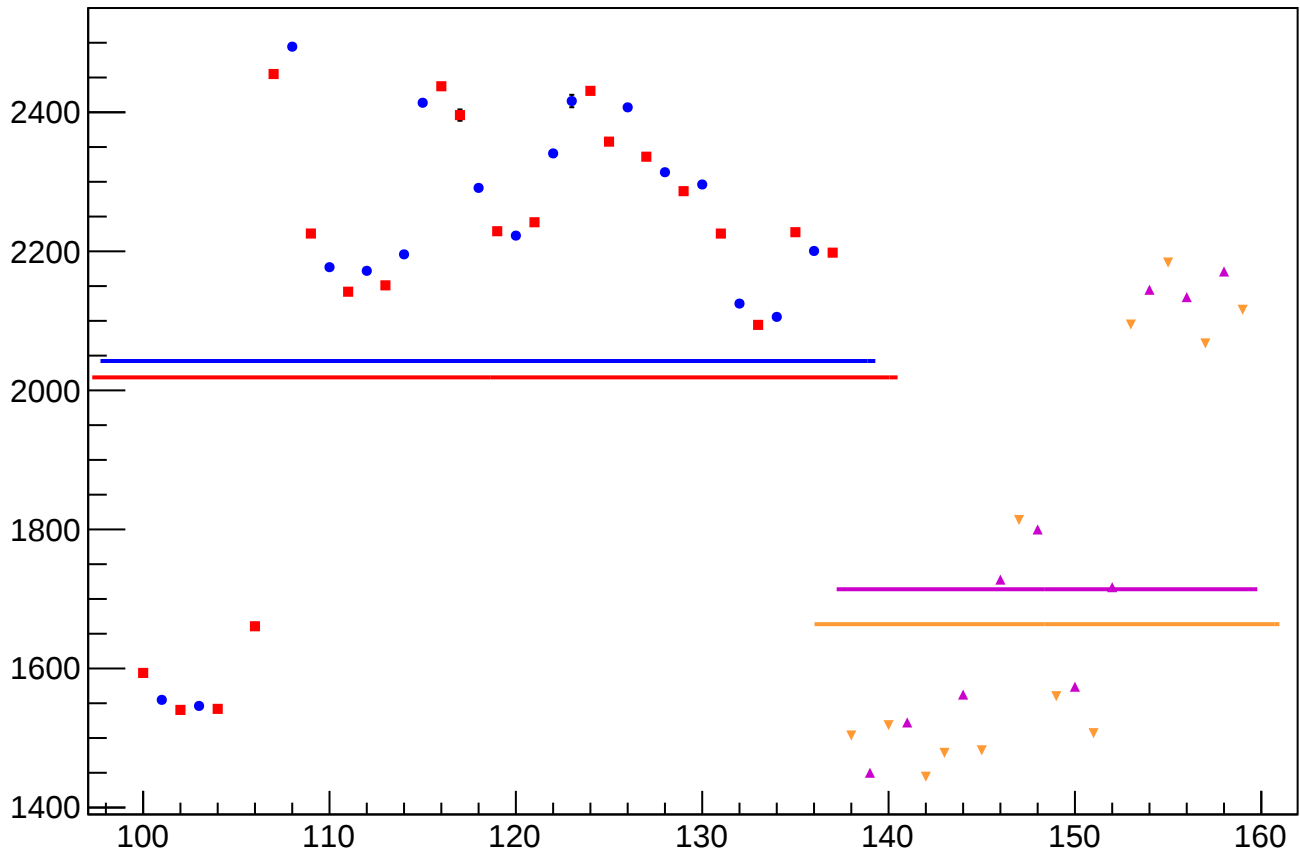
Right Out: -6.776 ± 0.763 χ^2/NDF : 422.1/19

Left In: 8.156 ± 0.607 χ^2/NDF : 75.8/9

4.008 ± 0.459 χ^2/NDF : 603.0/28

2.365 ± 0.475 χ^2/NDF : 732.3/29

diff_bpm0l05Y_rms vs Slug



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

Left Out: 1663.731+/-0.398 χ^2/NDF : 421645.5/11

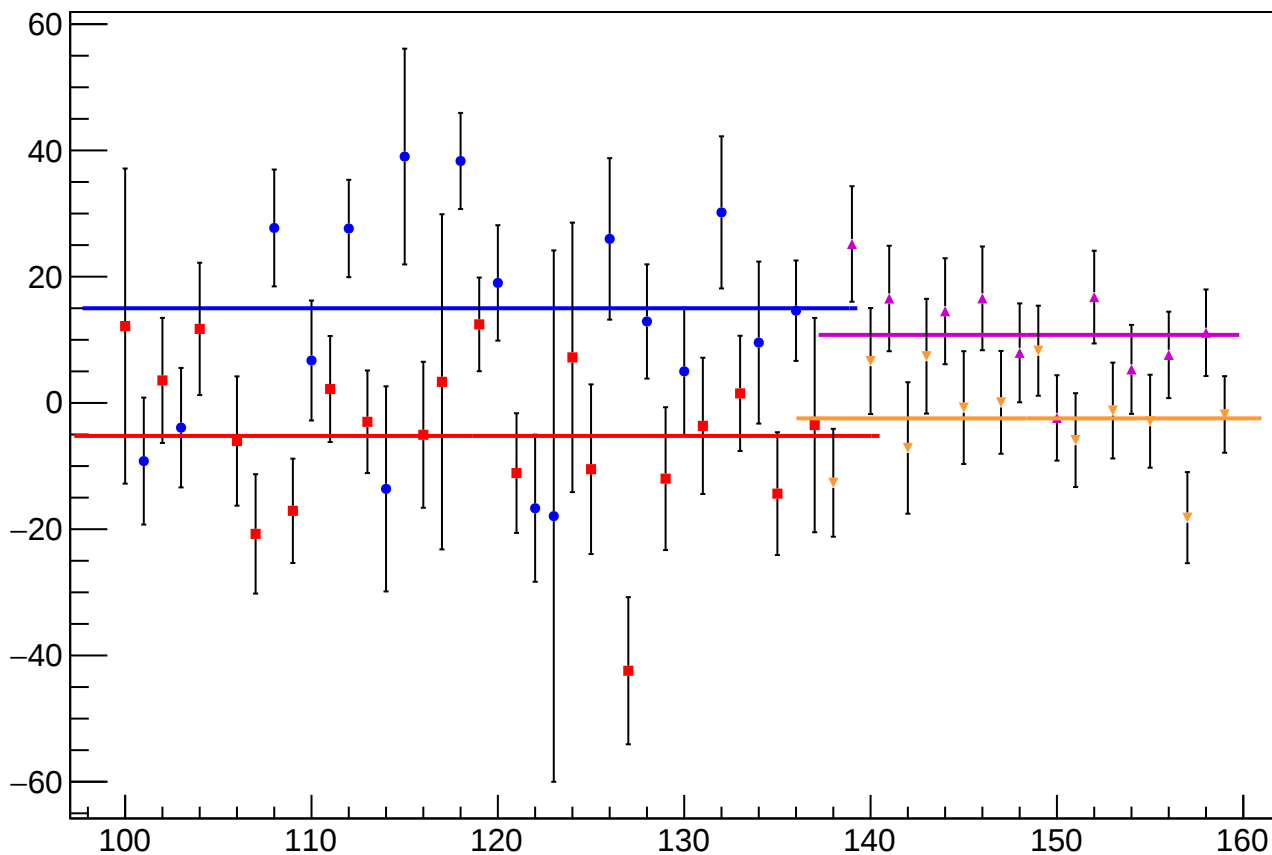
Right Out: 2018.694+/-0.540 χ^2/NDF : 377792.4/19

Left In: 1713.969+/-0.429 χ^2/NDF : 306578.8/9

1789.579+/-0.325 χ^2/NDF : 1079752.1/28

1832.144+/-0.336 χ^2/NDF : 879625.5/29

diff_bpm0l06X_mean vs Slug



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

Left Out: -2.439 $\pm$ 2.254 χ^2 /NDF: 11.4/11

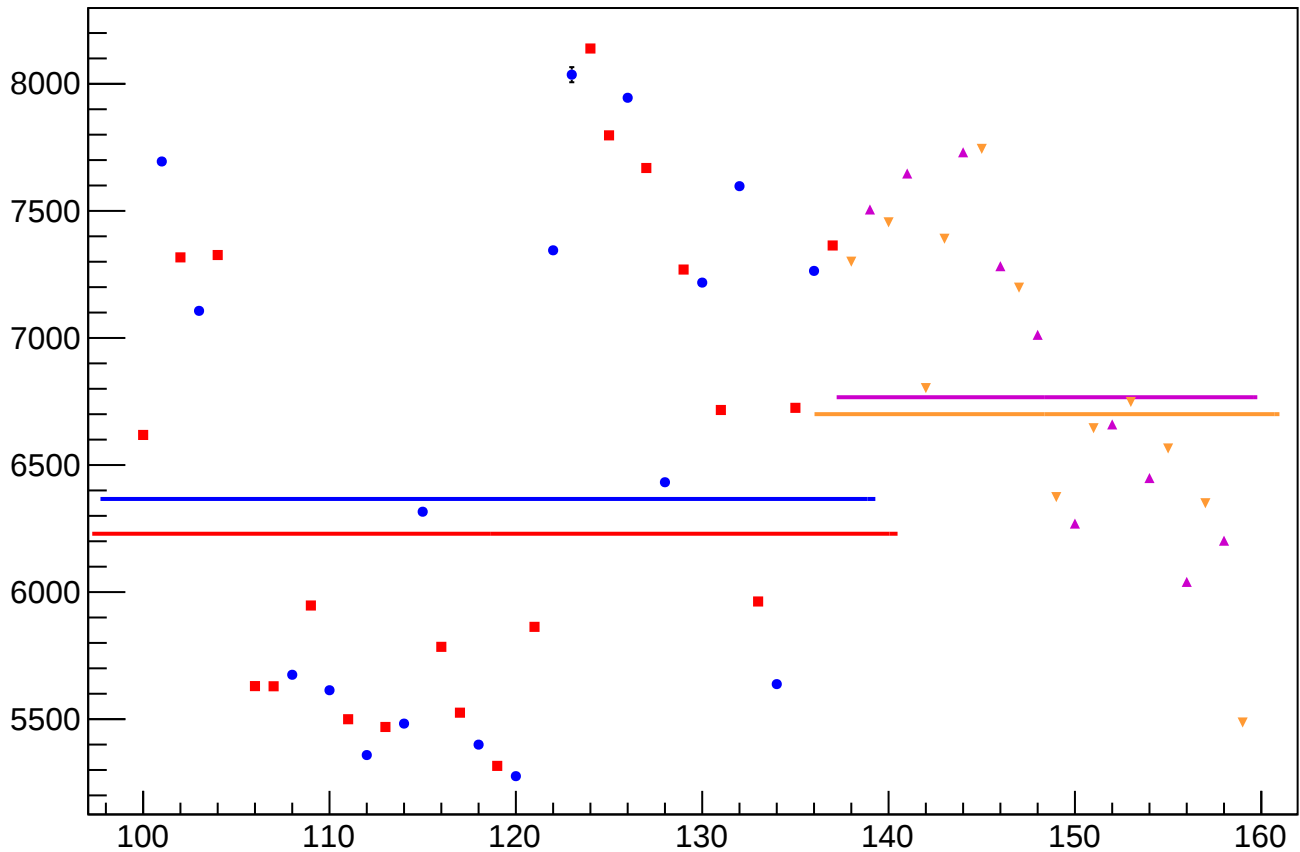
Right Out: -5.223 $\pm$ 2.348 χ^2 /NDF: 28.2/19

Left In: 10.780 $\pm$ 2.392 χ^2 /NDF: 9.0/9

5.431 $\pm$ 1.670 χ^2 /NDF: 79.7/28

2.629 $\pm$ 1.676 χ^2 /NDF: 60.0/29

diff_bpm0l06X_rms vs Slug



Right In: 6366.491+/-1.757 χ^2/NDF : 286494.5/16

Left Out: 6700.205+/-1.594 χ^2/NDF : 162404.3/11

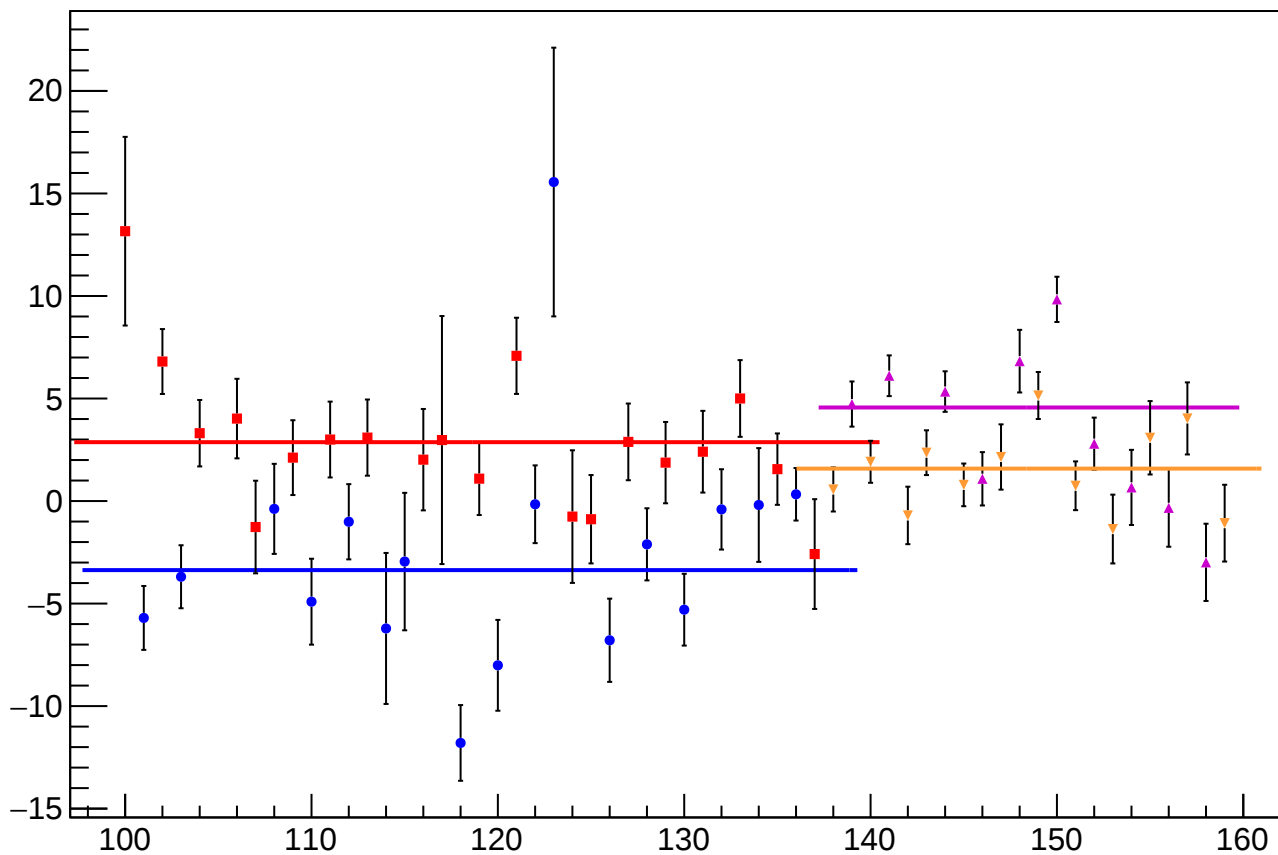
Right Out: 6229.625+/-1.660 χ^2/NDF : 244622.7/19

Left In: 6766.804+/-1.692 χ^2/NDF : 122854.4/9

6549.580+/-1.181 χ^2/NDF : 468682.5/28

6493.190+/-1.185 χ^2/NDF : 418832.6/29

diff_bpm0l06Y_mean vs Slug



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

Left Out: 1.581 ± 0.372 χ^2/NDF : 22.8/11

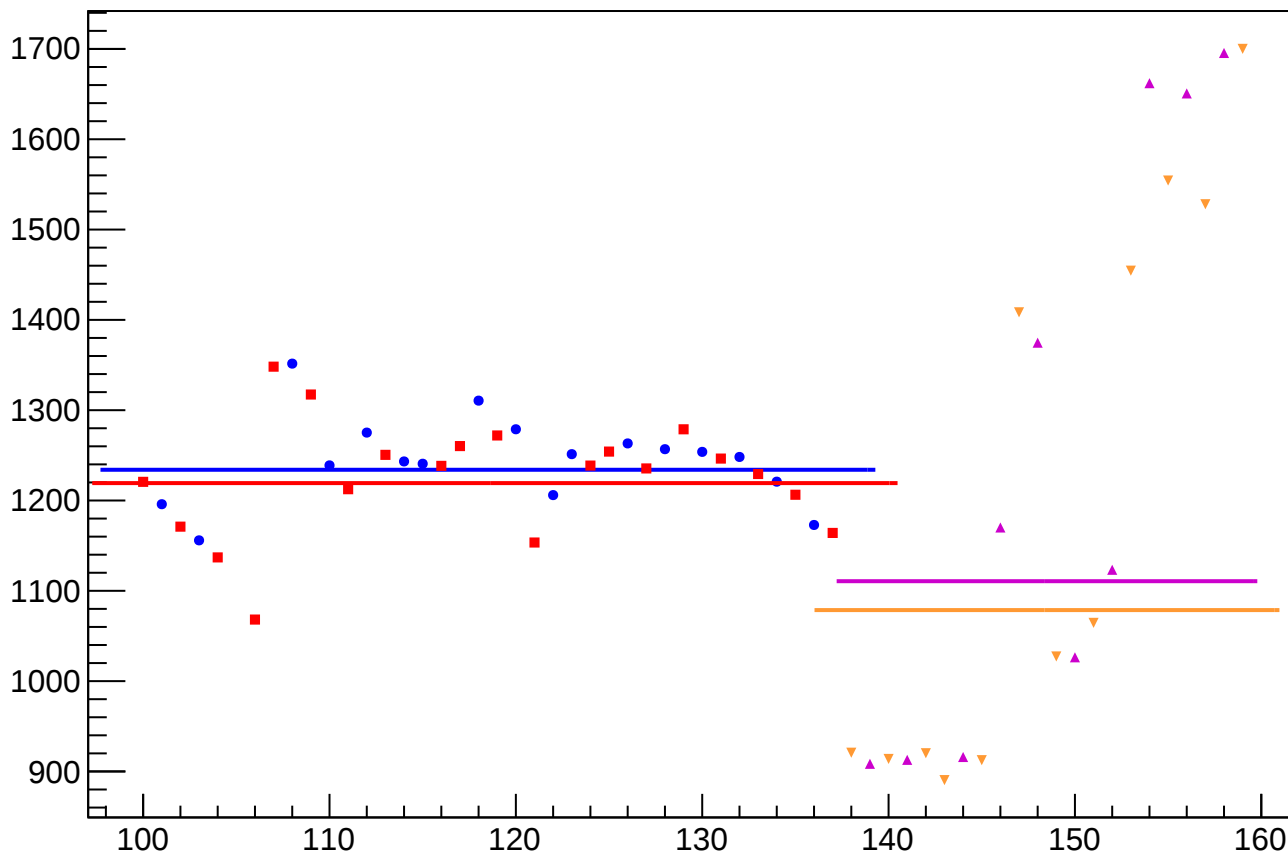
Right Out: 2.871 ± 0.455 χ^2/NDF : 32.0/19

Left In: 4.562 ± 0.402 χ^2/NDF : 64.4/9

-0.297 ± 0.293 χ^2/NDF : 149.9/28

3.821 ± 0.301 χ^2/NDF : 104.2/29

diff_bpm0l06Y_rms vs Slug



Right In: 1234.032 ± 0.336 χ^2/NDF : 23565.3/16

Left Out: 1078.663 ± 0.263 χ^2/NDF : 913754.8/11

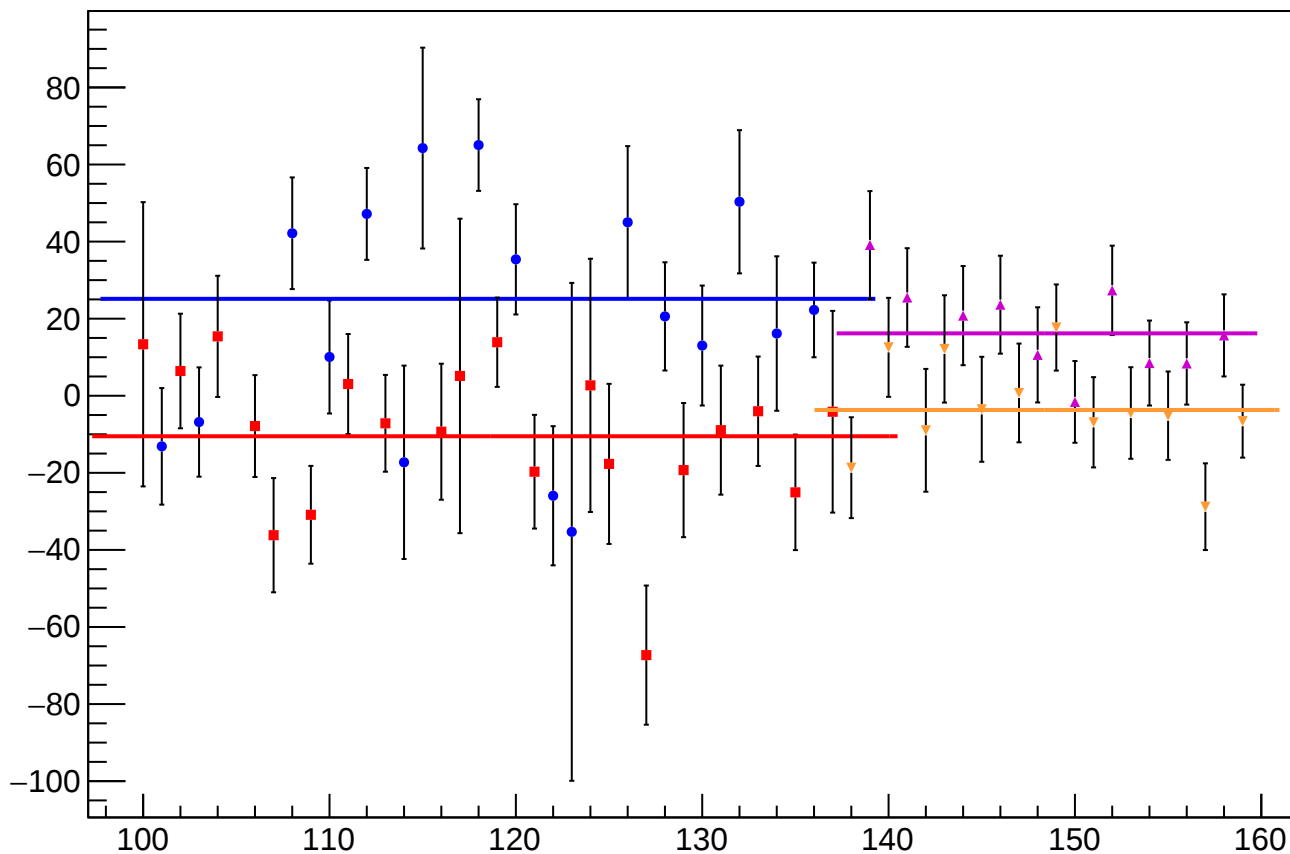
Right Out: 1219.275 ± 0.322 χ^2/NDF : 40462.8/19

Left In: 1110.654 ± 0.284 χ^2/NDF : 836346.4/9

1137.634 ± 0.207 χ^2/NDF : 1069789.1/28

1158.302 ± 0.213 χ^2/NDF : 940760.5/29

diff_bpm0l07X_mean vs Slug



Right In: 25.149 ± 3.837 $\chi^2/\text{NDF}: 46.9/16$

Left Out: -3.689 ± 3.502 $\chi^2/\text{NDF}: 13.3/11$

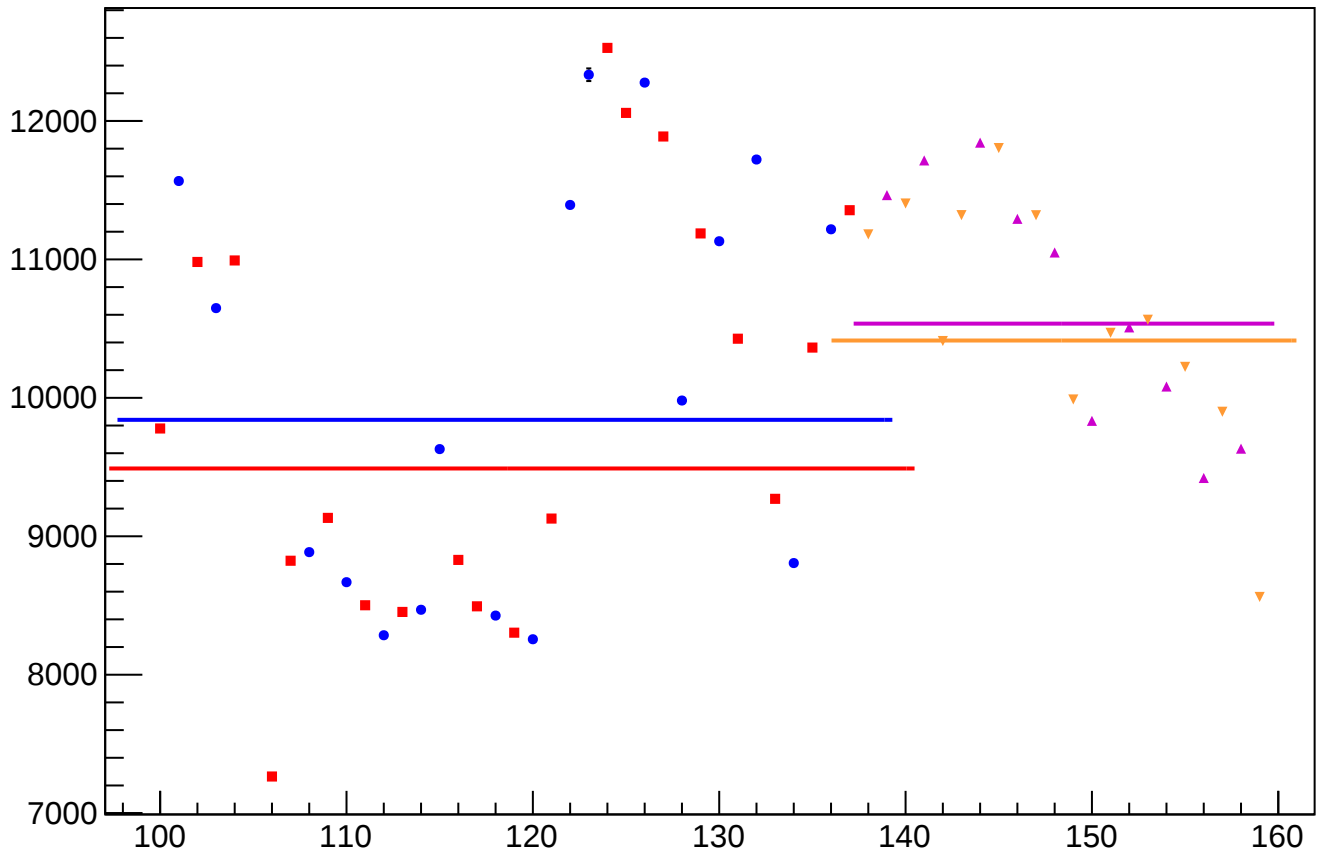
Right Out: -10.513 ± 3.581 $\chi^2/\text{NDF}: 27.8/19$

Left In: 16.186 ± 3.722 $\chi^2/\text{NDF}: 8.7/9$

9.414 ± 2.587 $\chi^2/\text{NDF}: 91.0/28$

2.320 ± 2.581 $\chi^2/\text{NDF}: 63.2/29$

diff_bpm0l07X_rms vs Slug



Right In: 9841.174+/-2.713 χ^2/NDF : 260062.4/16

Left Out: 10414.148+/-2.476 χ^2/NDF : 142687.9/11

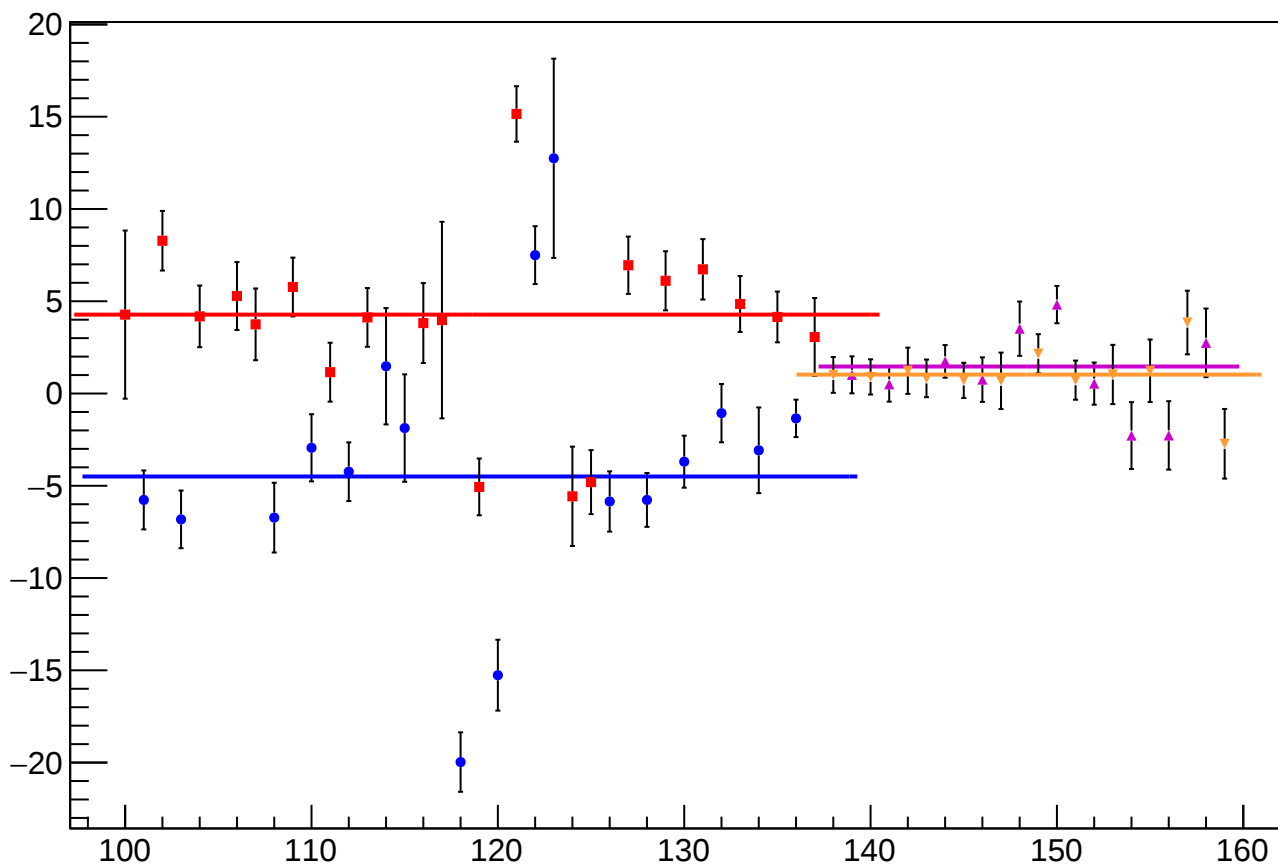
Right Out: 9489.753+/-2.532 χ^2/NDF : 277900.5/19

Left In: 10536.030+/-2.632 χ^2/NDF : 105388.2/9

10153.803+/-1.829 χ^2/NDF : 427079.4/28

9992.631+/-1.825 χ^2/NDF : 465357.9/29

diff_bpm0l07Y_mean vs Slug



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

Left Out: 1.026 ± 0.345 χ^2/NDF : 8.1/11

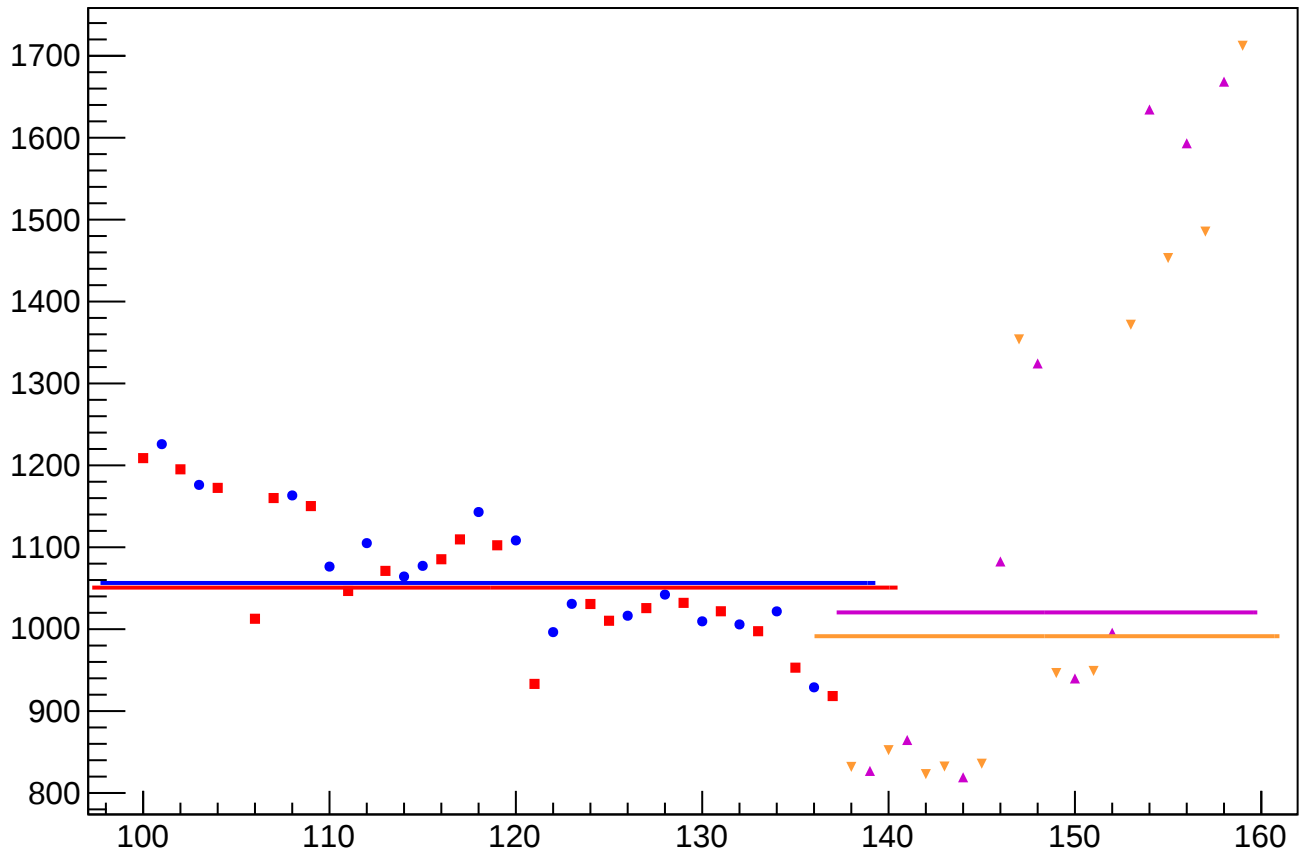
Right Out: 4.275 ± 0.393 χ^2/NDF : 148.2/19

Left In: 1.462 ± 0.373 χ^2/NDF : 24.1/9

-1.272 ± 0.263 χ^2/NDF : 333.4/28

2.796 ± 0.271 χ^2/NDF : 199.3/29

diff_bpm0l07Y_rms vs Slug



Right In: 1056.436+/-0.289 χ^2/NDF : 90773.0/16

Left Out: 991.415+/-0.244 χ^2/NDF : 1070169.6/11

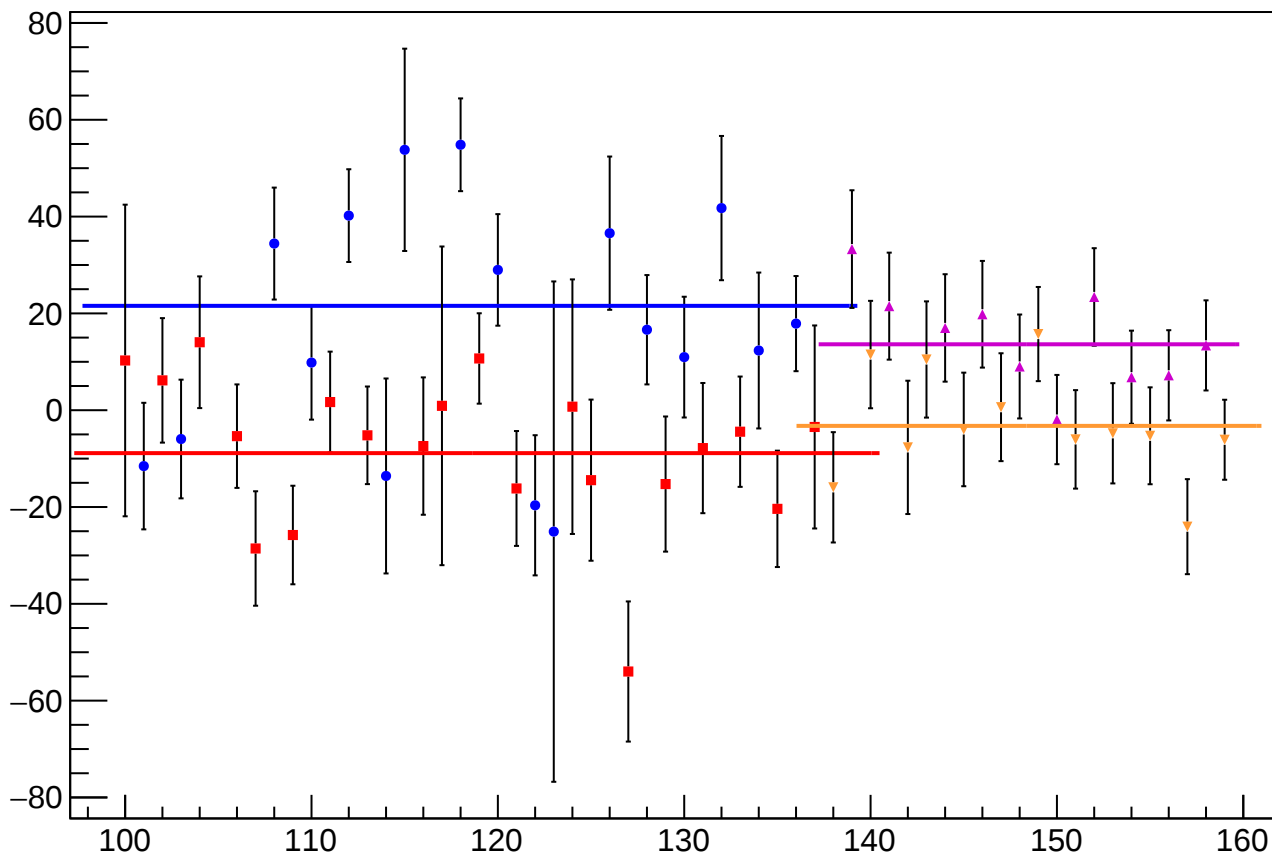
Right Out: 1050.765+/-0.278 χ^2/NDF : 82642.2/19

Left In: 1020.460+/-0.264 χ^2/NDF : 1000387.1/9

1018.470+/-0.186 χ^2/NDF : 1190577.3/28

1034.833+/-0.191 χ^2/NDF : 1089286.9/29

diff_bpm0l08X_mean vs Slug



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

Left Out: -3.236 ± 3.044 $\chi^2/\text{NDF}: 13.1/11$

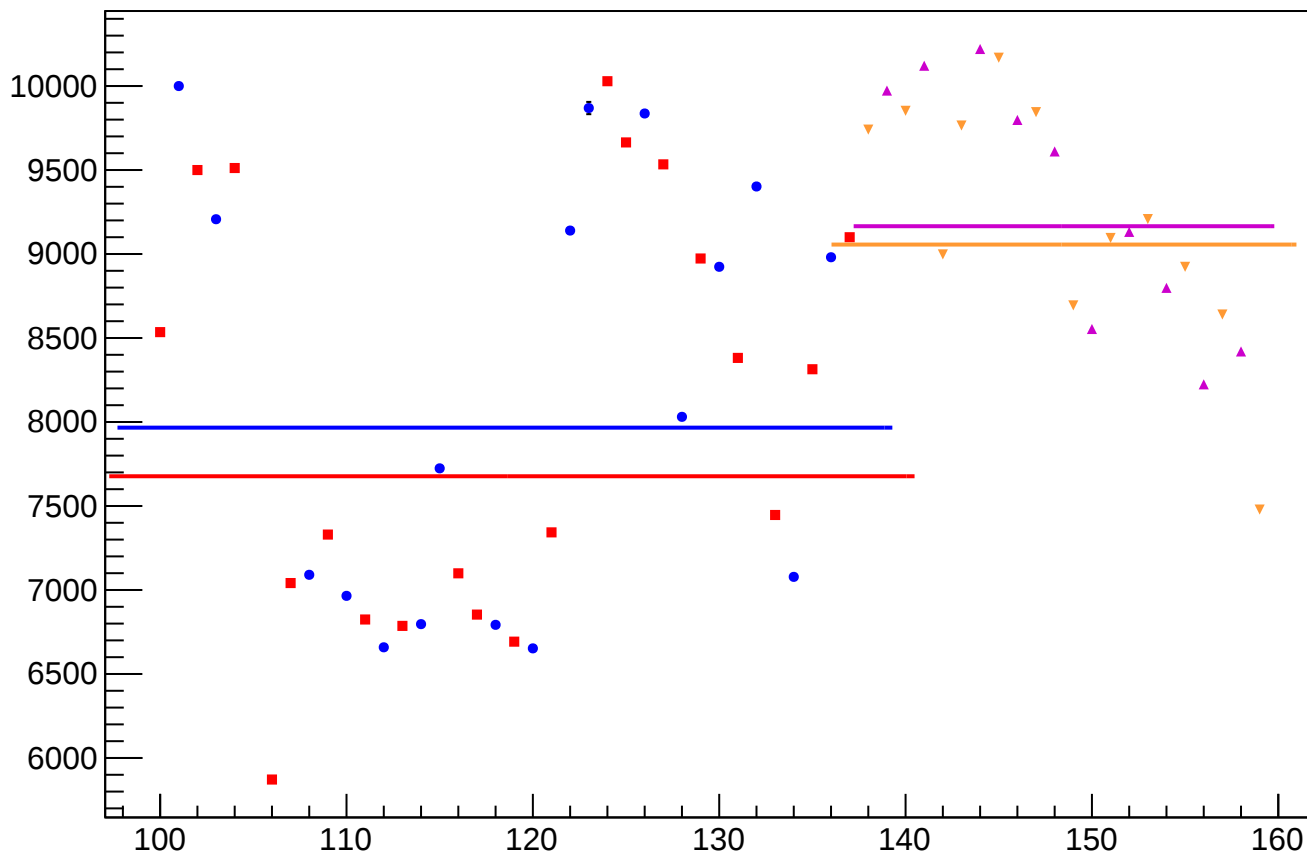
Right Out: -8.867 ± 2.901 $\chi^2/\text{NDF}: 27.5/19$

Left In: 13.618 ± 3.237 $\chi^2/\text{NDF}: 8.5/9$

8.896 ± 2.176 $\chi^2/\text{NDF}: 94.0/28$

1.147 ± 2.160 $\chi^2/\text{NDF}: 62.8/29$

diff_bpm0l08X_rms vs Slug



Right In: 7966.405+/-2.199 χ^2/NDF : 296611.1/16

Left Out: 9056.221+/-2.153 χ^2/NDF :132553.4/11

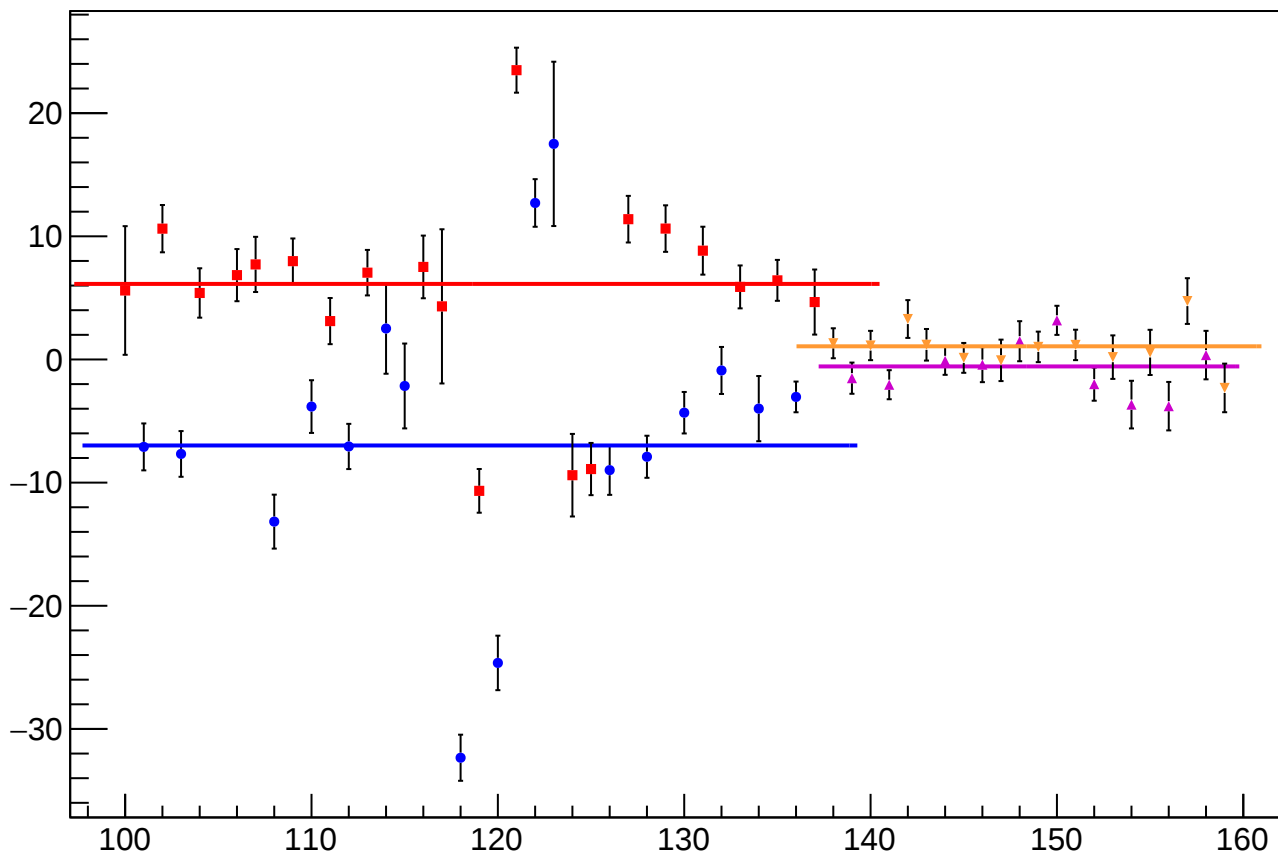
Right Out: 7677.035+/-2.051 χ^2/NDF : 316295.2/19

Left In: 9165.444+/-2.289 χ^2/NDF :96815.2/9

8523.022+/-1.538 χ^2/NDF : 554571.1/28

8339.932+/-1.527 χ^2/NDF : 647663.3/29

diff_bpm0l08Y_mean vs Slug



Right In: -6.984 ± 0.486 $\chi^2/\text{NDF}: 408.5/16$

Left Out: 1.068 ± 0.411 $\chi^2/\text{NDF}: 10.4/11$

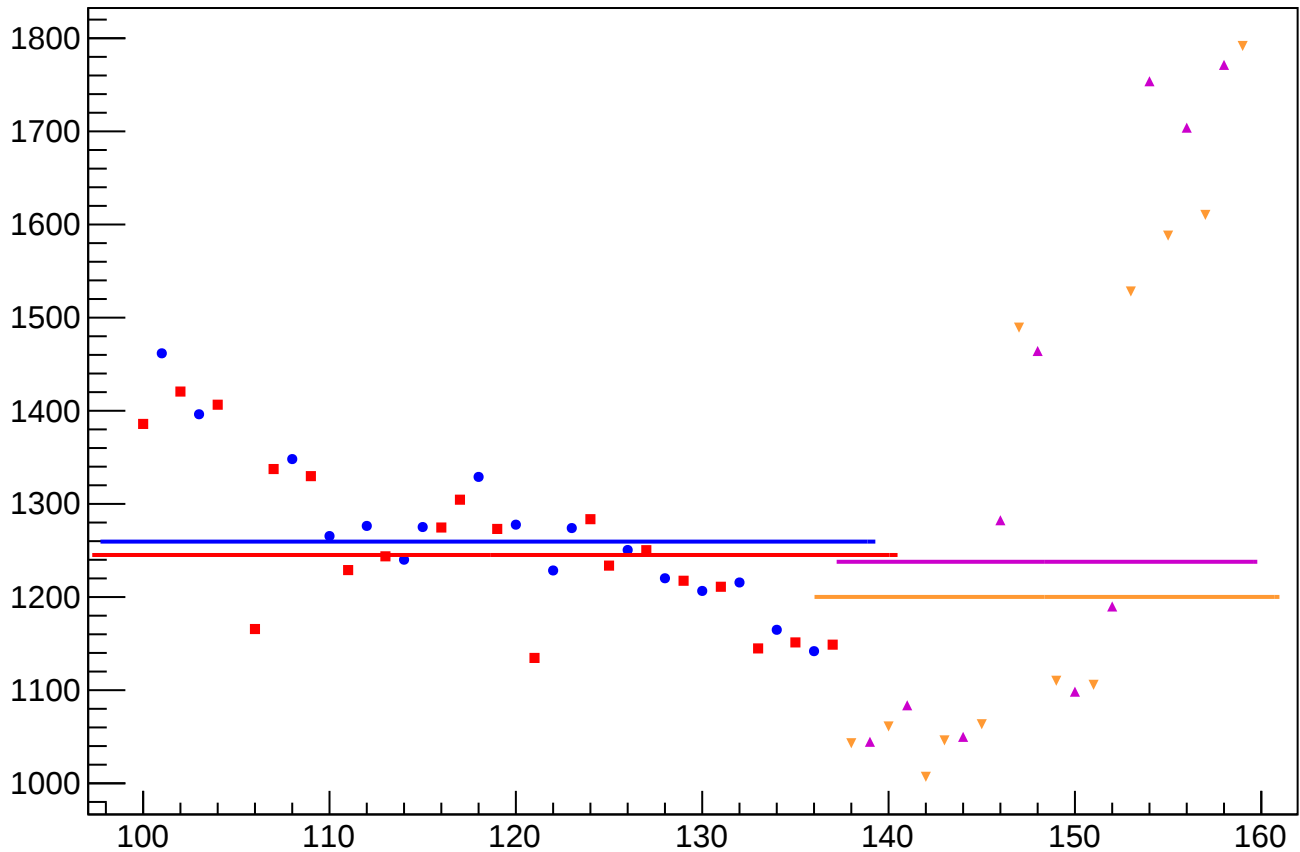
Right Out: 6.135 ± 0.465 $\chi^2/\text{NDF}: 277.6/19$

Left In: -0.565 ± 0.445 $\chi^2/\text{NDF}: 20.6/9$

-2.288 ± 0.314 $\chi^2/\text{NDF}: 578.9/28$

2.637 ± 0.322 $\chi^2/\text{NDF}: 406.3/29$

diff_bpm0l08Y_rms vs Slug



Right In: 1259.531+/-0.344 χ^2/NDF : 64844.4/16

Left Out: 1200.130+/-0.291 χ^2/NDF : 663639.0/11

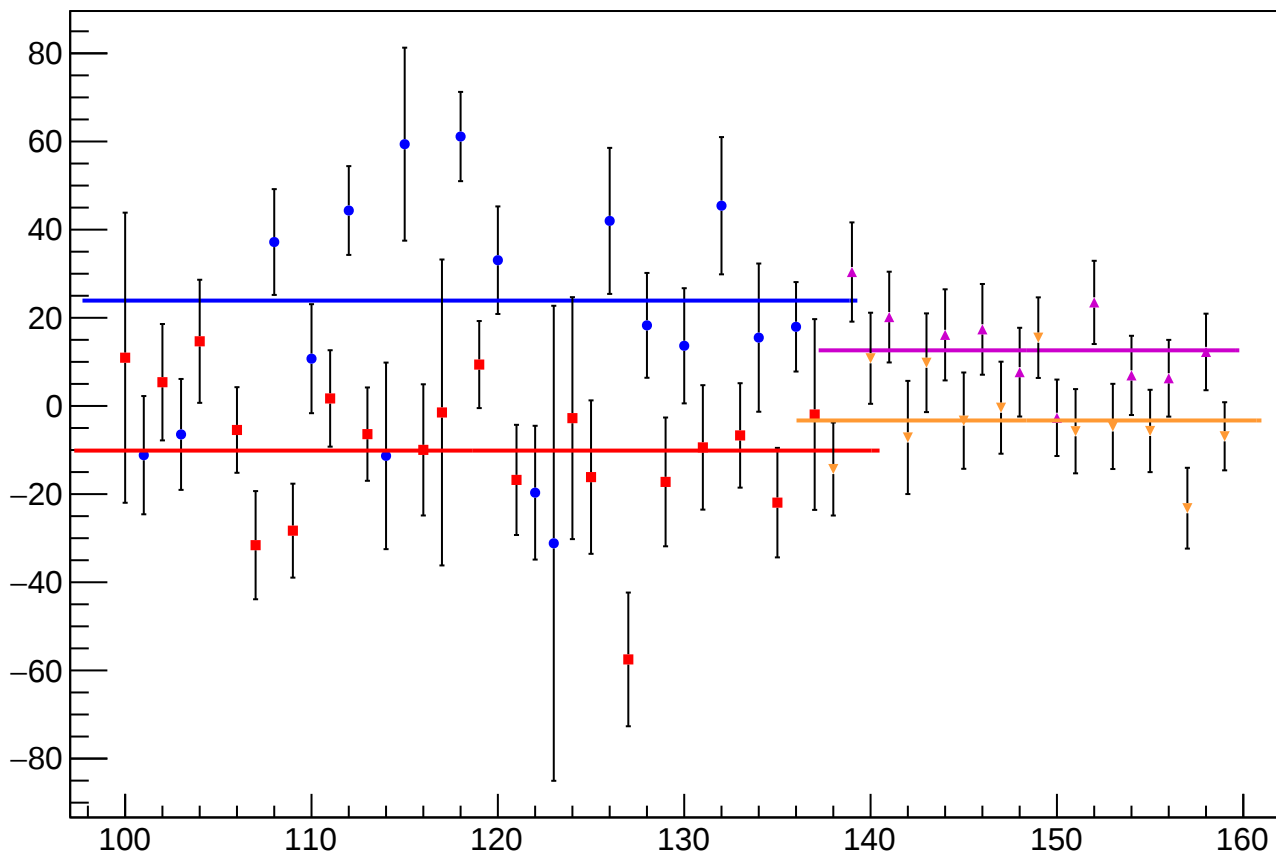
Right Out: 1245.167+/-0.329 χ^2/NDF : 67006.8/19

Left In: 1237.863+/-0.315 χ^2/NDF : 608103.8/9

1224.891+/-0.222 χ^2/NDF : 745893.5/28

1241.354+/-0.228 χ^2/NDF : 675367.8/29

diff_bpm0l09X_mean vs Slug



Right In: 23.904 ± 3.251 χ^2/NDF : 52.4/16

Left Out: -3.294 ± 2.843 χ^2/NDF : 13.8/11

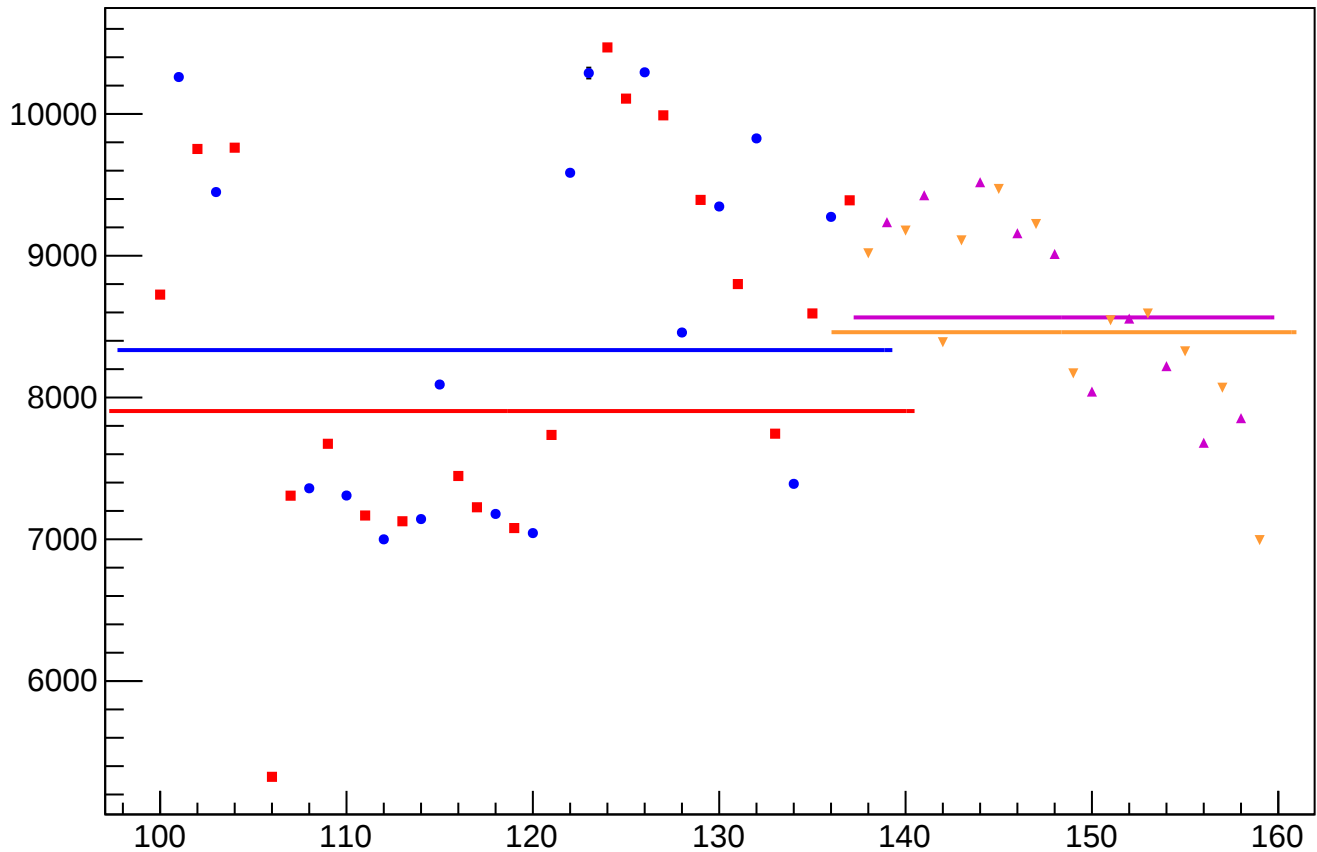
Right Out: -10.125 ± 2.994 χ^2/NDF : 28.0/19

Left In: 12.618 ± 3.024 χ^2/NDF : 9.0/9

8.496 ± 2.140 χ^2/NDF : 105.9/28

1.134 ± 2.128 χ^2/NDF : 65.5/29

diff_bpm0l09X_rms vs Slug



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

Left Out: 8460.659 $\pm$ 2.011 χ^2 /NDF:128361.6/11

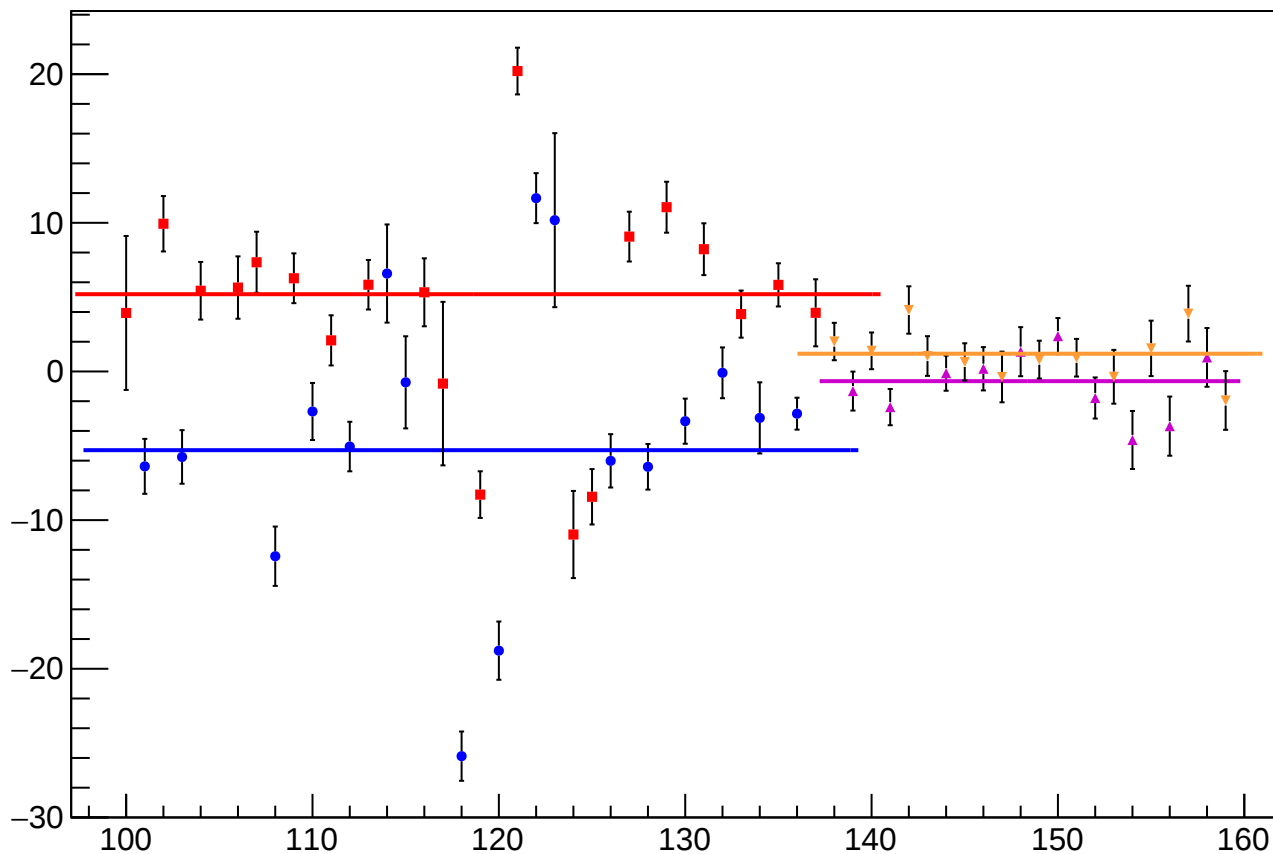
Right Out: 7904.529 $\pm$ 2.117 χ^2 /NDF: 391589.9/19

Left In: 8564.964 $\pm$ 2.138 χ^2 /NDF:92990.9/9

8405.973 $\pm$ 1.513 χ^2 /NDF: 402370.6/28

8231.487 $\pm$ 1.505 χ^2 /NDF: 532746.8/29

diff_bpm0l09Y_mean vs Slug



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

Left Out: 1.194+/-0.423 χ^2/NDF :10.4/11

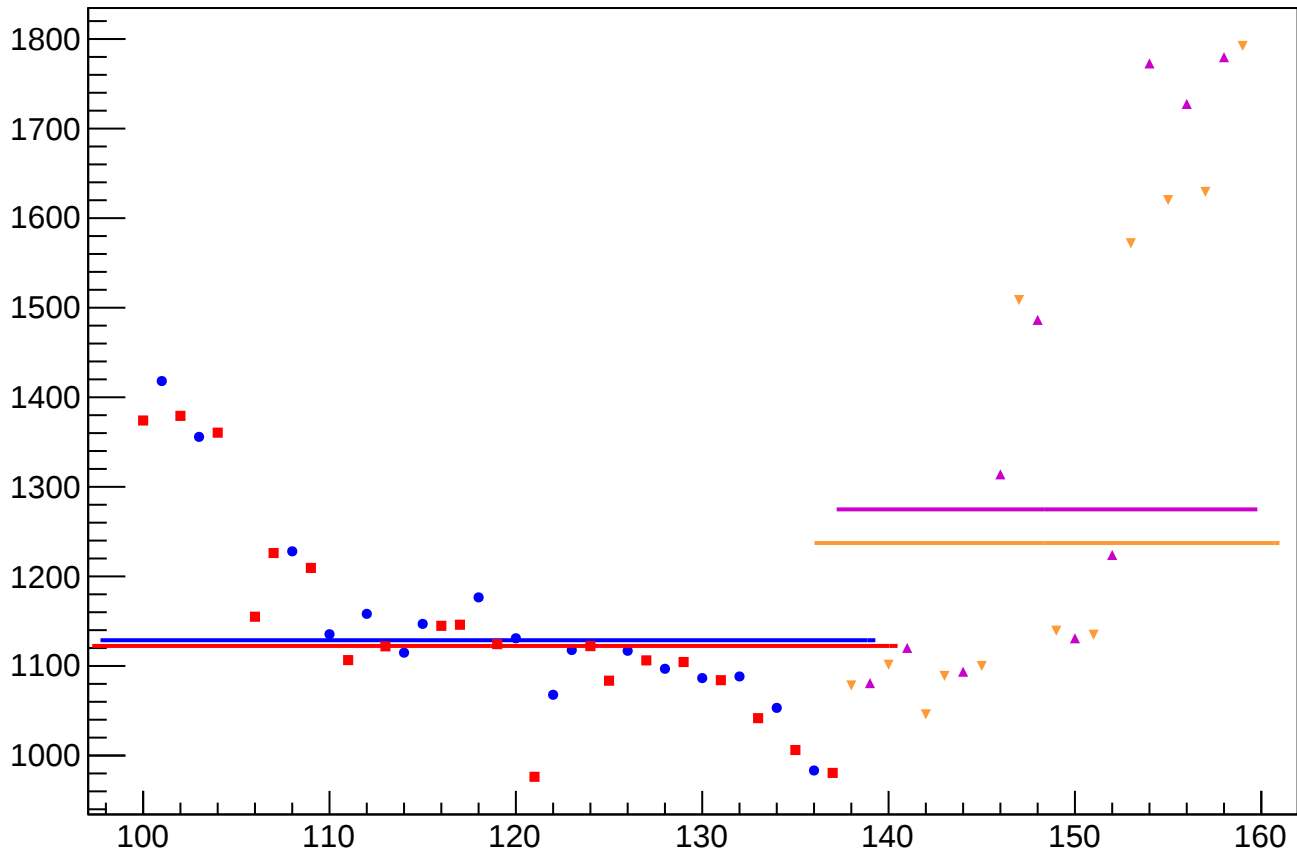
Right Out: 5.198+/-0.420 χ^2/NDF : 283.1/19

Left In: -0.651+/-0.457 χ^2/NDF :18.2/9

-1.943+/-0.304 χ^2/NDF : 482.5/28

2.519+/-0.310 χ^2/NDF : 390.0/29

diff_bpm0l09Y_rms vs Slug



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

Left Out: 1237.275 $\pm$ 0.299 χ^2 /NDF: 607614.2/11

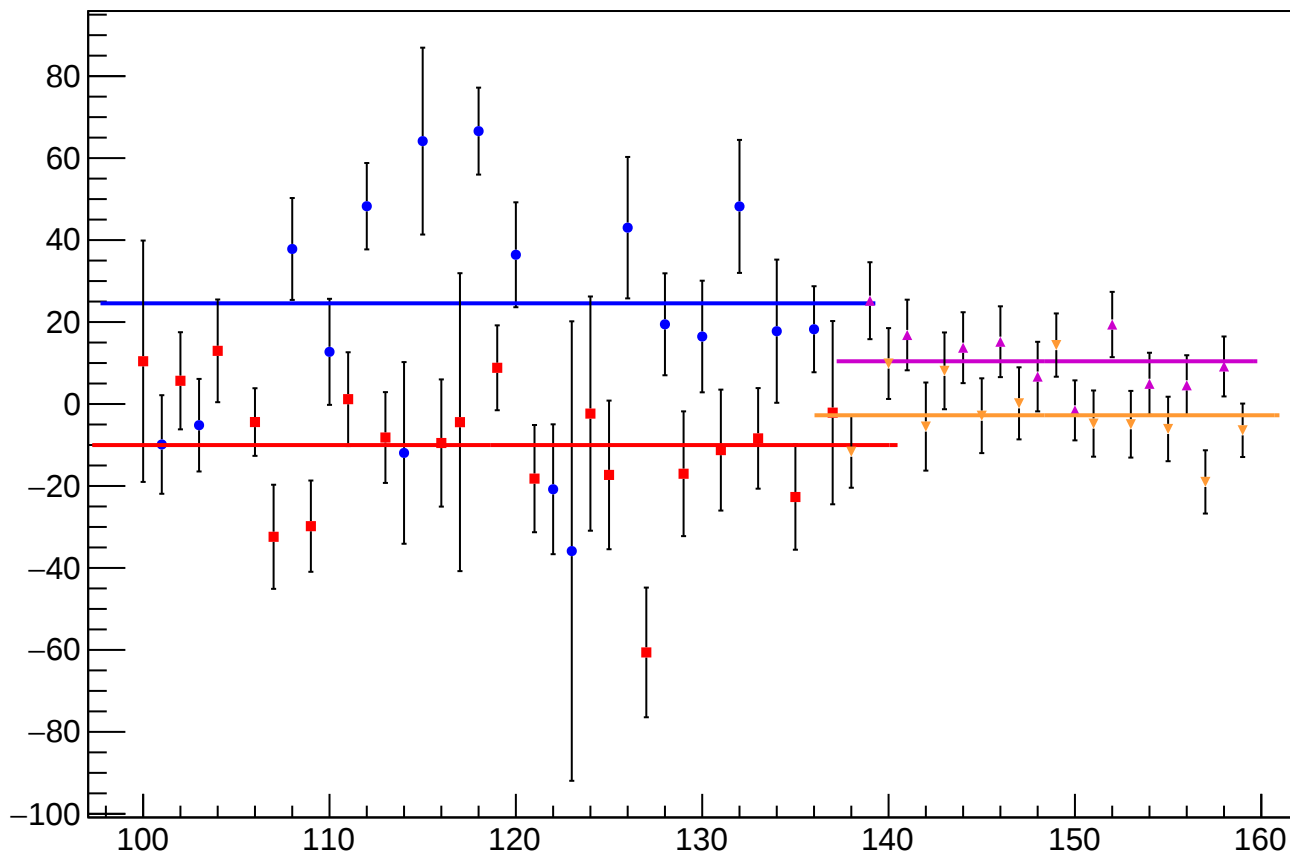
Right Out: 1122.377 $\pm$ 0.297 χ^2 /NDF: 129638.9/19

Left In: 1274.829 $\pm$ 0.323 χ^2 /NDF: 552483.1/9

1184.797 $\pm$ 0.215 χ^2 /NDF: 804475.9/28

1192.194 $\pm$ 0.219 χ^2 /NDF: 802560.0/29

diff_bpm0l10X_mean vs Slug



Right In: 24.569+/-3.318 χ^2/NDF : 58.1/16

Left Out: -2.746+/-2.391 χ^2/NDF : 14.7/11

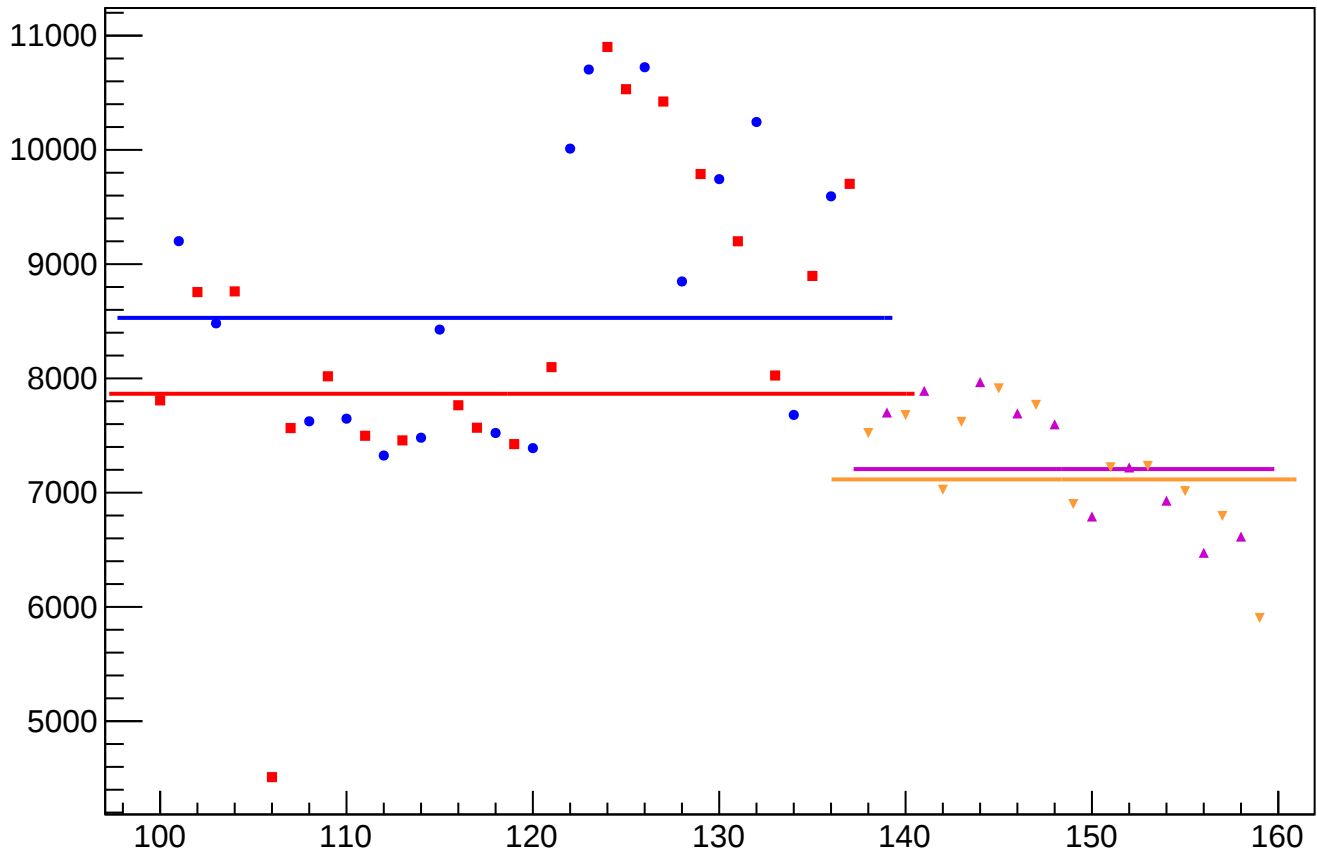
Right Out: -10.019+/-2.997 χ^2/NDF : 28.8/19

Left In: 10.428+/-2.544 χ^2/NDF : 8.8/9

6.588+/-1.940 χ^2/NDF : 117.4/28

1.868+/-1.939 χ^2/NDF : 64.7/29

diff_bpm0l10X_rms vs Slug



Right In: 8529.821+/-2.346 χ^2/NDF : 208336.1/16

Left Out: 7115.889+/-1.691 χ^2/NDF : 120146.7/11

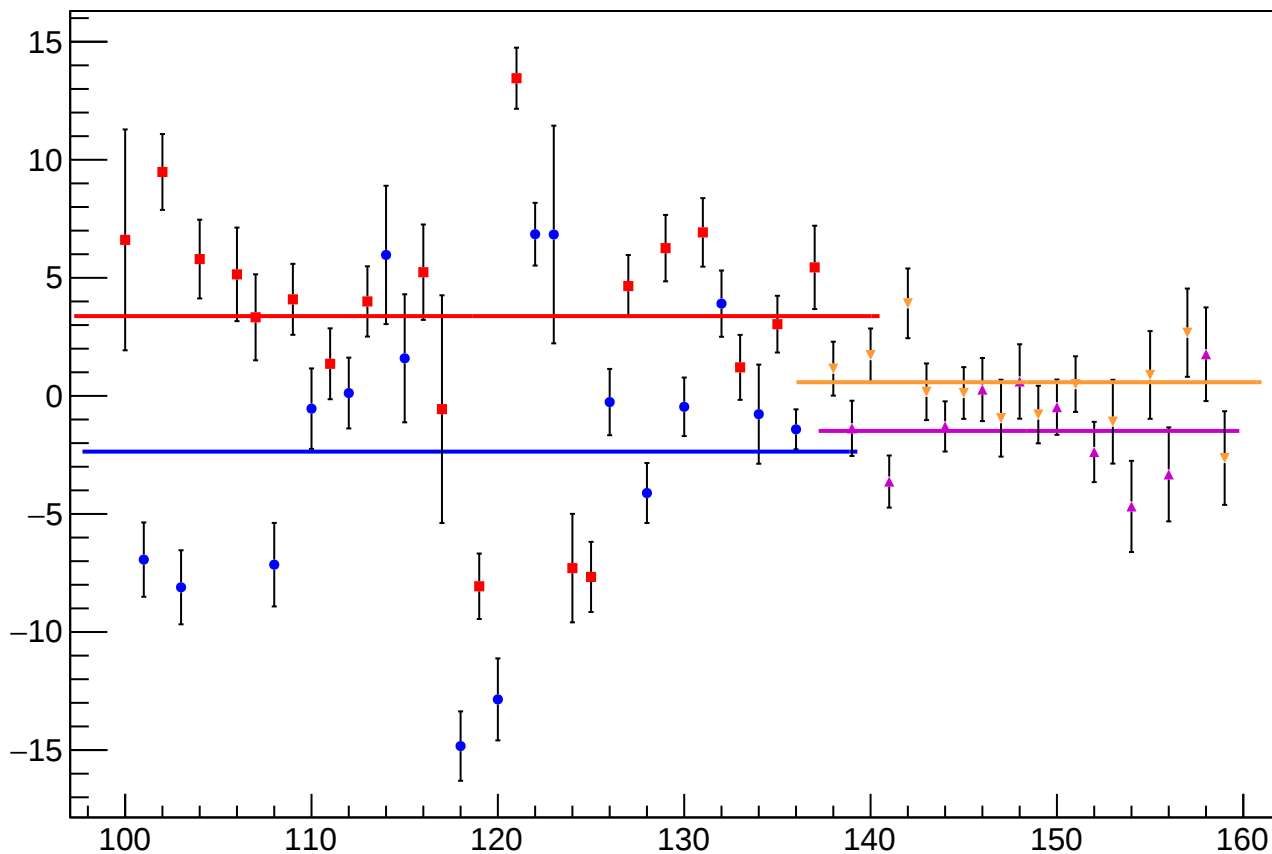
Right Out: 7865.549+/-2.119 χ^2/NDF : 555976.4/19

Left In: 7206.531+/-1.799 χ^2/NDF : 86403.0/9

7599.042+/-1.372 χ^2/NDF : 567514.6/28

7482.431+/-1.371 χ^2/NDF : 698583.5/29

diff_bpm0l10Y_mean vs Slug



Right In: -2.360 ± 0.366 $\chi^2/\text{NDF}: 232.0/16$

Left Out: 0.580 ± 0.393 $\chi^2/\text{NDF}: 13.6/11$

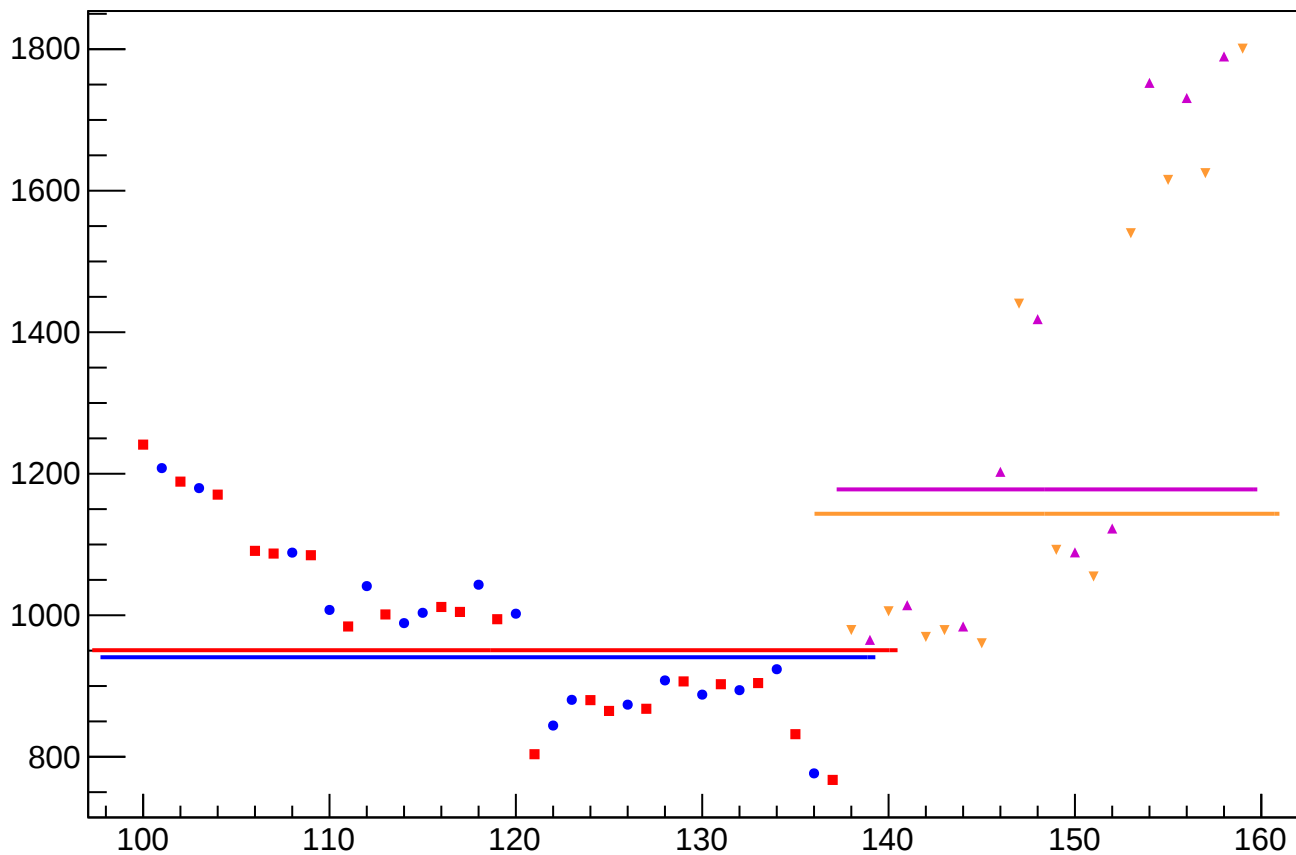
Right Out: 3.379 ± 0.357 $\chi^2/\text{NDF}: 242.1/19$

Left In: -1.483 ± 0.426 $\chi^2/\text{NDF}: 14.8/9$

-0.998 ± 0.268 $\chi^2/\text{NDF}: 275.6/28$

1.371 ± 0.274 $\chi^2/\text{NDF}: 333.4/29$

diff_bpm0l10Y_rms vs Slug



Right In: 940.683 $\pm$ 0.258 χ^2 /NDF: 241768.4/16

Left Out: 1143.448 $\pm$ 0.278 χ^2 /NDF:854992.0/11

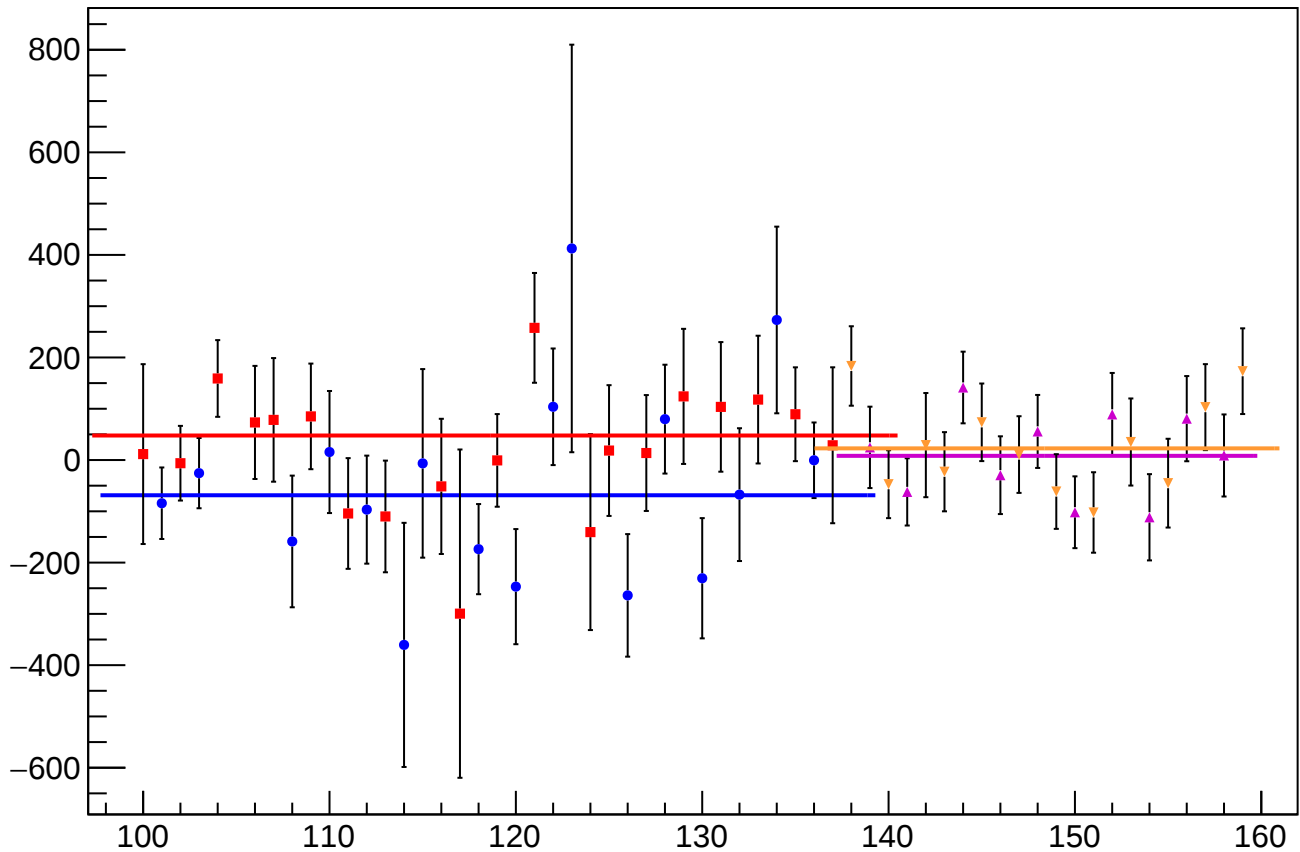
Right Out: 950.615 $\pm$ 0.253 χ^2 /NDF: 220931.3/19

Left In: 1177.872 $\pm$ 0.301 χ^2 /NDF:760846.7/9

1034.621 $\pm$ 0.189 χ^2 /NDF: 1381846.5/28

1044.497 $\pm$ 0.194 χ^2 /NDF: 1316190.1/29

diff_bpm0r03X_mean vs Slug



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 22.749 ± 22.810 χ^2/NDF : 14.9/11

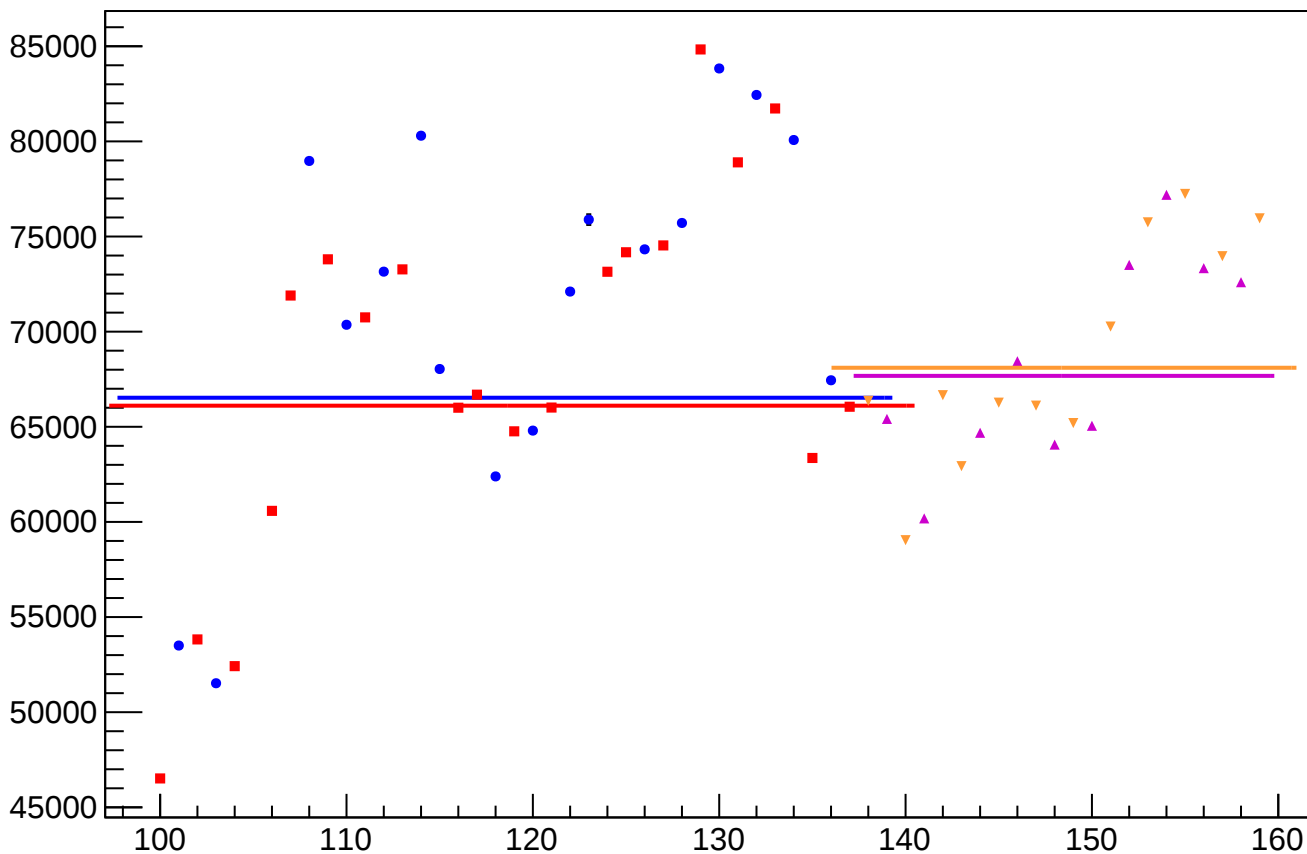
Right Out: 47.835 ± 24.944 χ^2/NDF : 15.2/19

Left In: 8.188 ± 23.787 χ^2/NDF : 11.8/9

-17.113 ± 17.131 χ^2/NDF : 43.7/28

27.071 ± 17.214 χ^2/NDF : 28.3/29

diff_bpm0r03X_rms vs Slug



Right In: 66527.251 ± 18.347 χ^2/NDF : 320887.2/16

Left Out: 68102.715 ± 16.129 χ^2/NDF : 121100.5/11

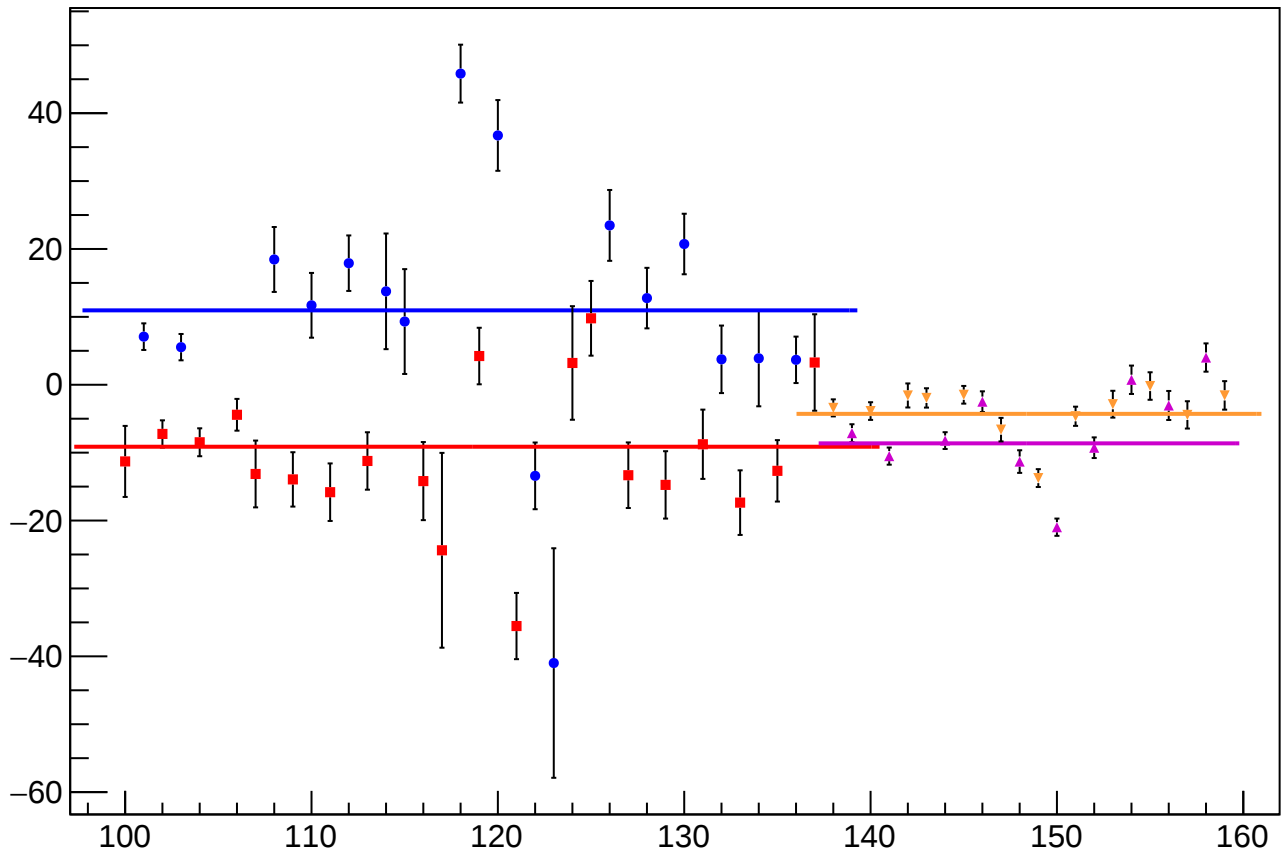
Right Out: 66109.383 ± 17.638 χ^2/NDF : 298491.9/19

Left In: 67676.522 ± 16.820 χ^2/NDF : 92445.6/9

67415.899 ± 12.114 χ^2/NDF : 446147.1/28

66930.123 ± 12.172 χ^2/NDF : 395072.1/29

diff_bpm0r03Y_mean vs Slug



Right In: 10.958 ± 0.943 $\chi^2/\text{NDF}: 160.9/16$

Left Out: -4.286 ± 0.447 $\chi^2/\text{NDF}: 70.2/11$

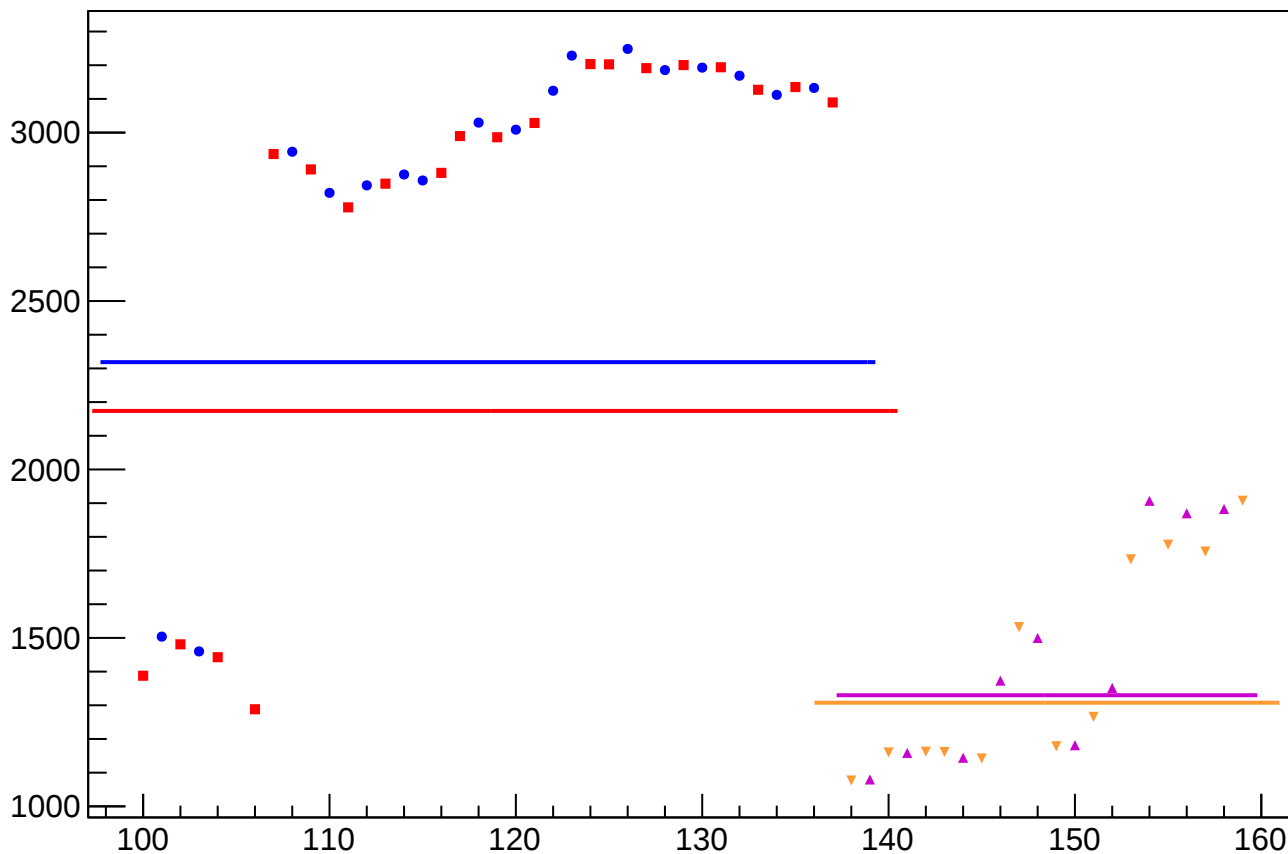
Right Out: -9.127 ± 0.865 $\chi^2/\text{NDF}: 74.2/19$

Left In: -8.630 ± 0.477 $\chi^2/\text{NDF}: 180.8/9$

-1.493 ± 0.404 $\chi^2/\text{NDF}: 444.5/28$

-8.746 ± 0.418 $\chi^2/\text{NDF}: 255.3/29$

diff_bpm0r03Y_rms vs Slug



Right In: 2318.624+/-0.667 χ^2/NDF : 1408300.4/16

Left Out: 1307.626+/-0.316 χ^2/NDF : 677392.4/11

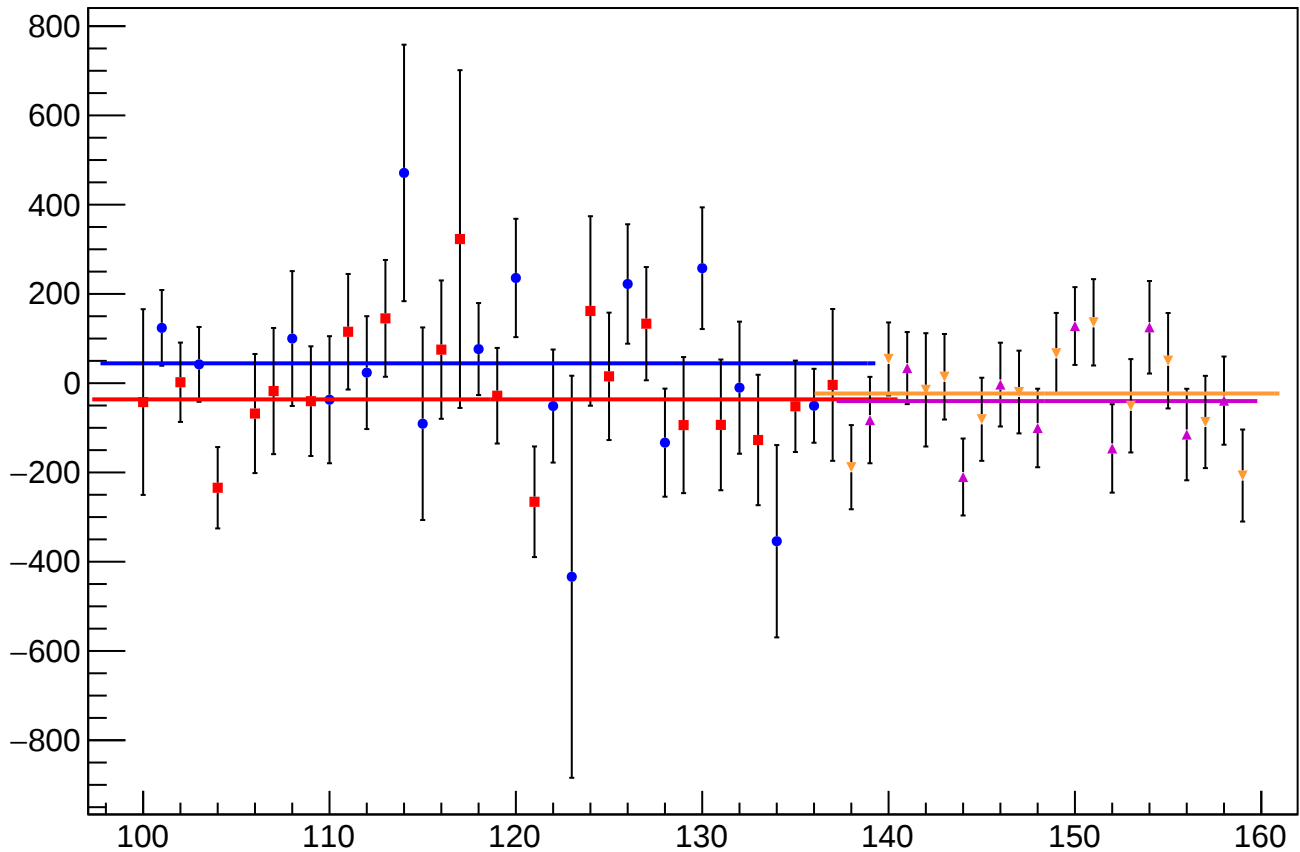
Right Out: 2173.762+/-0.611 χ^2/NDF : 1760181.2/19

Left In: 1329.882+/-0.338 χ^2/NDF : 625912.1/9

1492.860+/-0.285 χ^2/NDF : 3962605.2/28

1526.978+/-0.296 χ^2/NDF : 3845817.7/29

diff_bpm0r05X_mean vs Slug



Right In: 44.484 $\pm$ 30.432 χ^2 /NDF: 19.1/16

Left Out: -23.086 $\pm$ 28.168 χ^2 /NDF:12.3/11

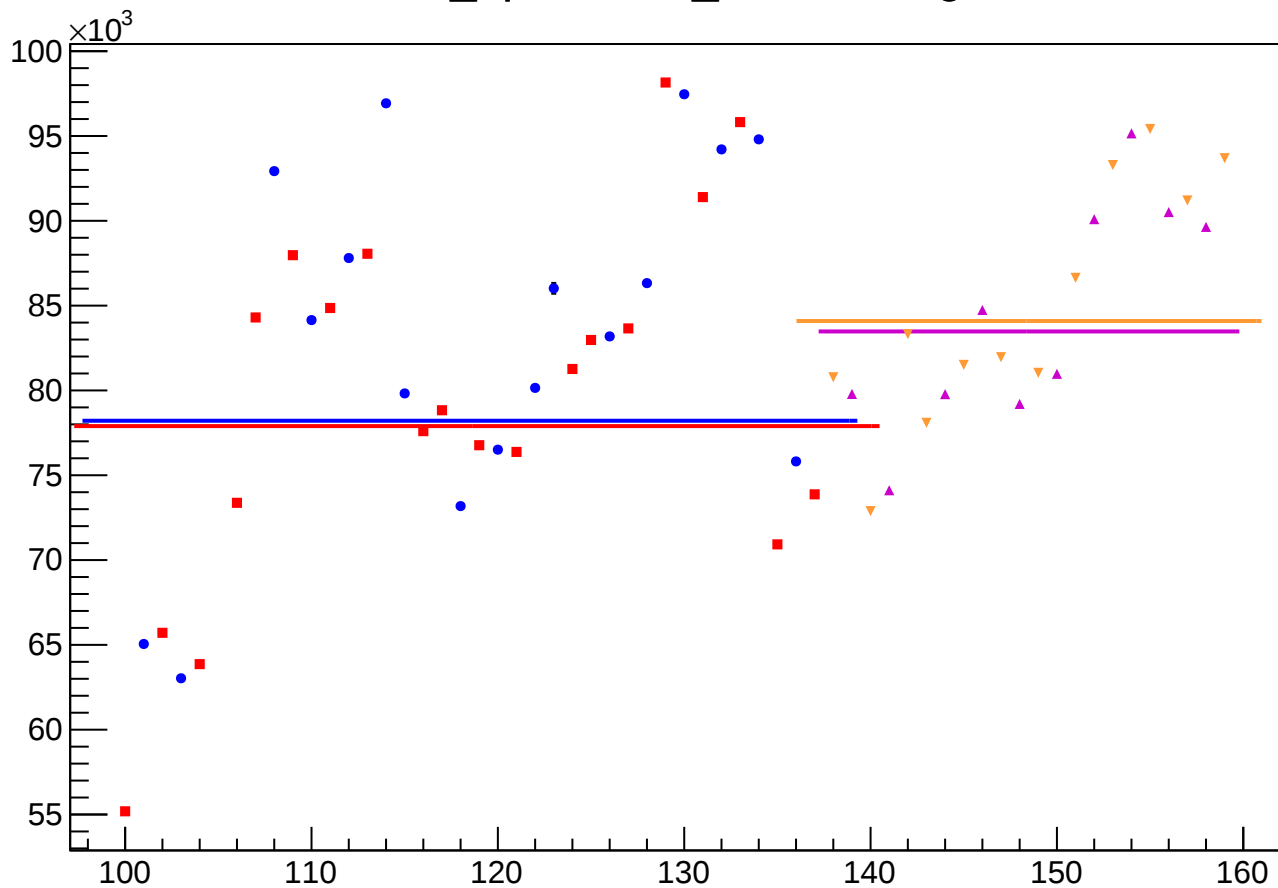
Right Out: -36.251 $\pm$ 29.346 χ^2 /NDF: 16.7/19

Left In: -40.083 $\pm$ 29.344 χ^2 /NDF:13.5/9

8.092 $\pm$ 20.672 χ^2 /NDF: 34.1/28

-38.167 $\pm$ 20.750 χ^2 /NDF: 30.2/29

diff_bpm0r05X_rms vs Slug



Right In: 78213.025 ± 21.519 χ^2/NDF : 251056.7/16

Left Out: 84093.071 ± 19.917 χ^2/NDF : 118937.1/11

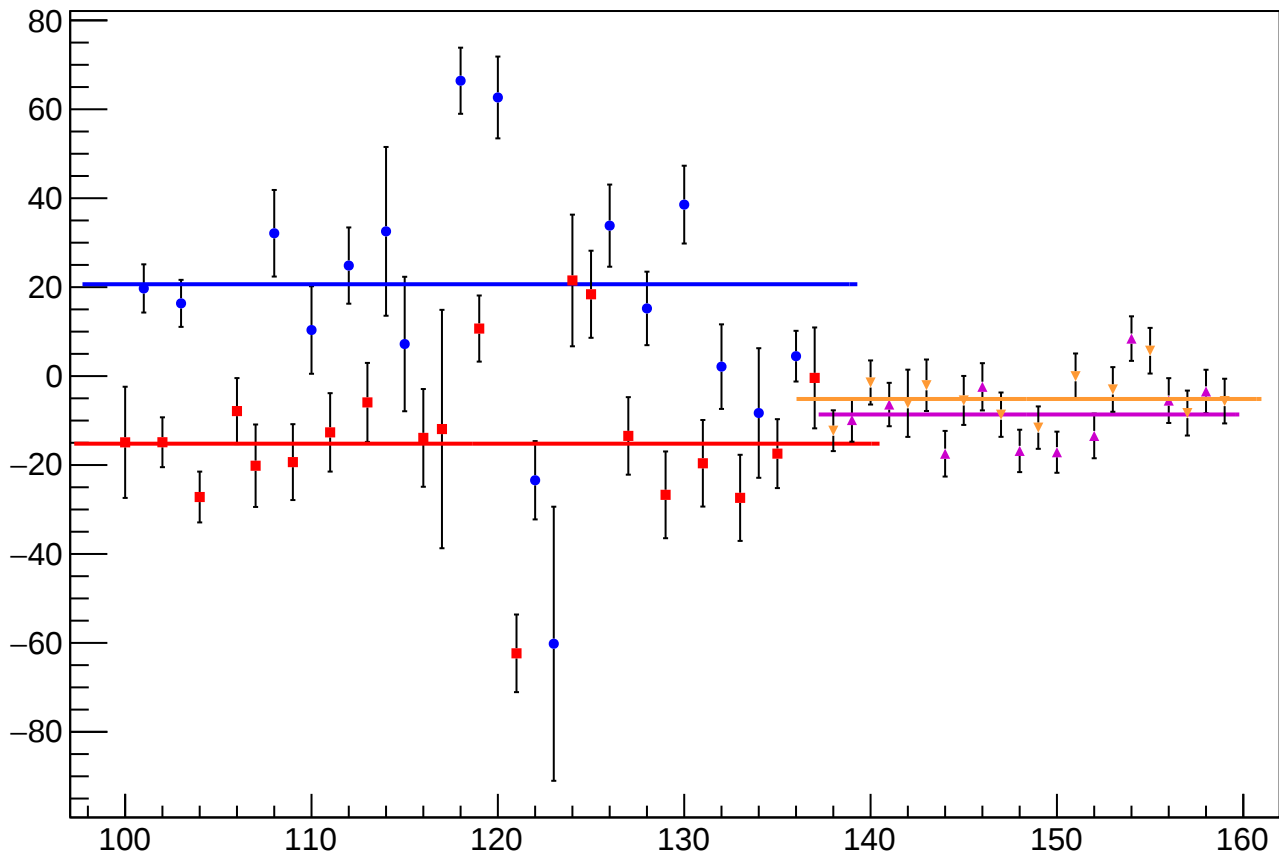
Right Out: 77897.594 ± 20.751 χ^2/NDF : 246982.5/19

Left In: 83477.903 ± 20.749 χ^2/NDF : 91684.7/9

81379.913 ± 14.617 χ^2/NDF : 410208.9/28

80687.957 ± 14.673 χ^2/NDF : 374828.2/29

diff_bpm0r05Y_mean vs Slug



Right In: 20.657 ± 2.036 $\chi^2/\text{NDF}: 117.7/16$

Left Out: -5.145 ± 1.495 $\chi^2/\text{NDF}: 11.7/11$

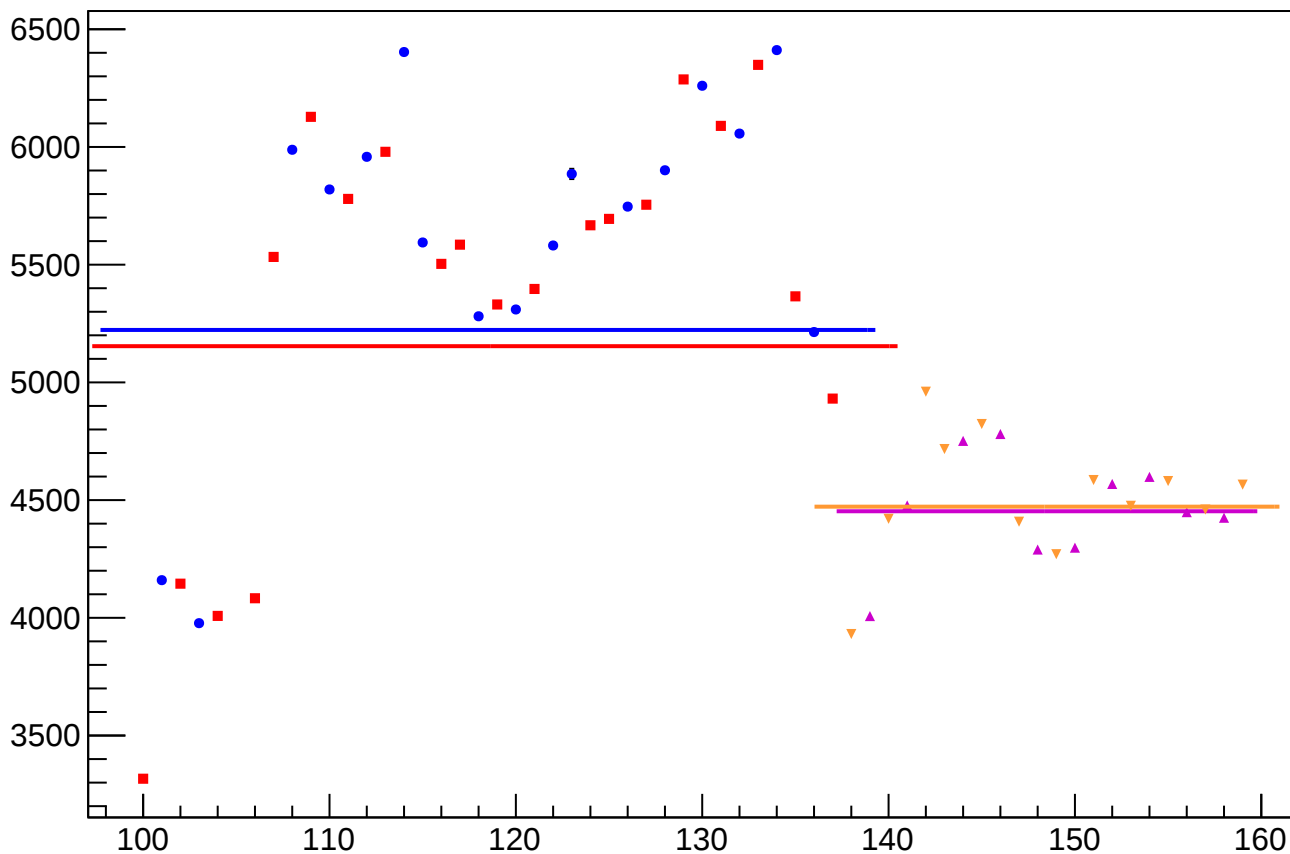
Right Out: -15.198 ± 1.950 $\chi^2/\text{NDF}: 71.3/19$

Left In: -8.632 ± 1.563 $\chi^2/\text{NDF}: 25.0/9$

3.896 ± 1.205 $\chi^2/\text{NDF}: 233.7/28$

-11.201 ± 1.219 $\chi^2/\text{NDF}: 103.2/29$

diff_bpm0r05Y_rms vs Slug



Right In: 5222.767 $\pm$ 1.440 χ^2 /NDF: 312497.9/16

Left Out: 4472.160 $\pm$ 1.057 χ^2 /NDF: 54565.2/11

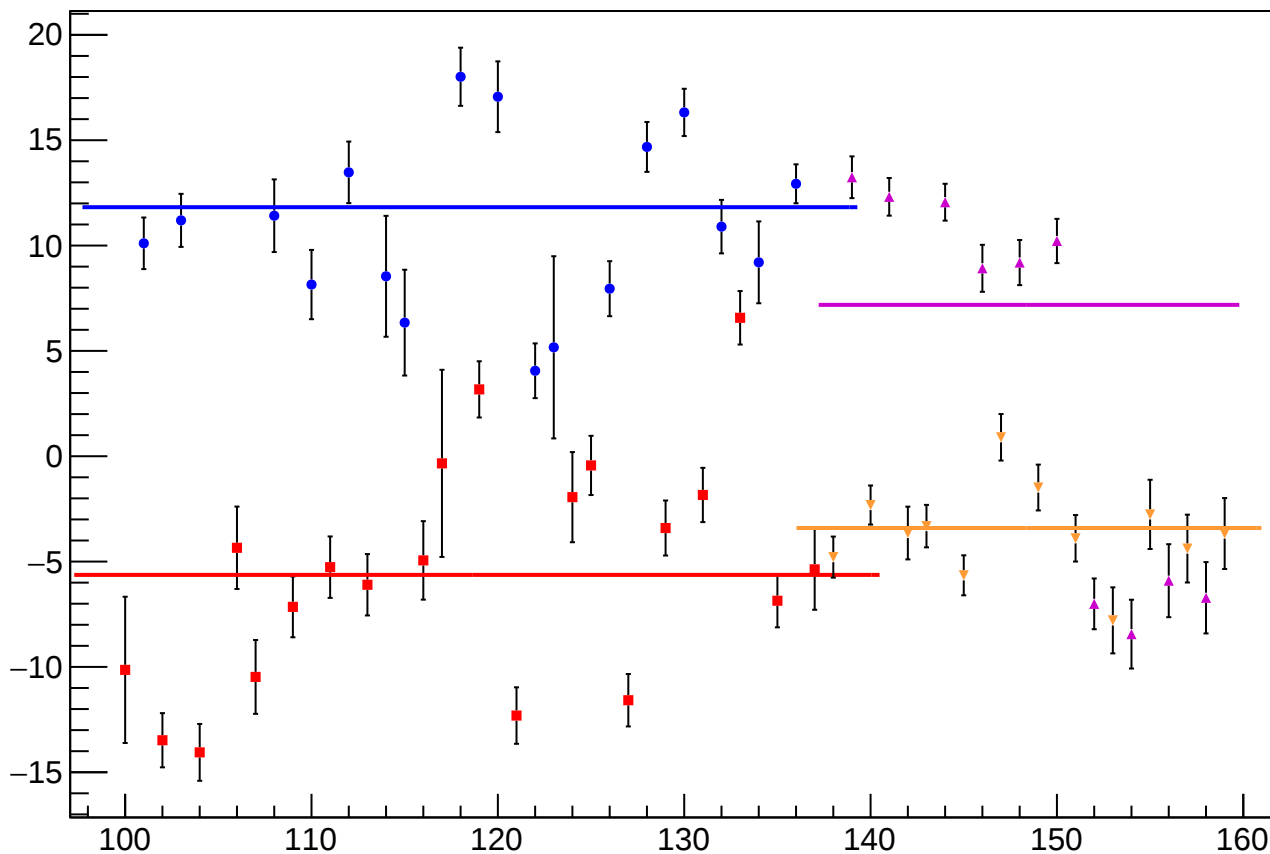
Right Out: 5153.826 $\pm$ 1.379 χ^2 /NDF: 388205.9/19

Left In: 4452.616 $\pm$ 1.105 χ^2 /NDF: 38579.5/9

4735.161 $\pm$ 0.852 χ^2 /NDF: 543670.4/28

4726.976 $\pm$ 0.862 χ^2 /NDF: 584289.2/29

diff_bpm2i01X_mean vs Slug



Right In: 11.821+/-0.344 χ^2/NDF : 117.0/16

Left Out: -3.407+/-0.334 χ^2/NDF : 35.9/11

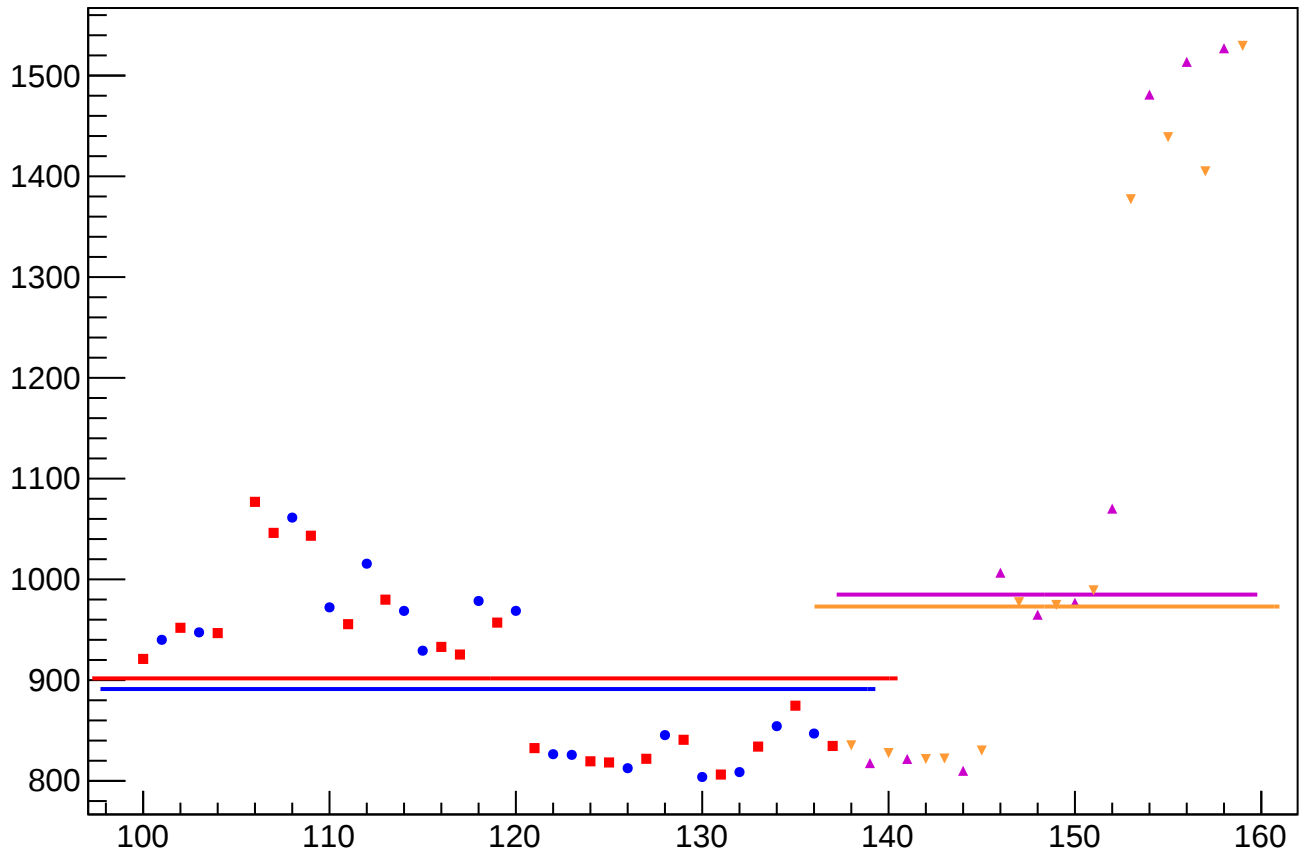
Right Out: -5.632+/-0.337 χ^2/NDF : 301.6/19

Left In: 7.185+/-0.356 χ^2/NDF : 470.5/9

3.978+/-0.240 χ^2/NDF : 1159.3/28

0.440+/-0.245 χ^2/NDF : 1455.4/29

diff_bpm2i01X_rms vs Slug



Right In: 891.149+/-0.244 χ^2/NDF : 101659.1/16

Left Out: 973.043+/-0.236 χ^2/NDF : 864897.3/11

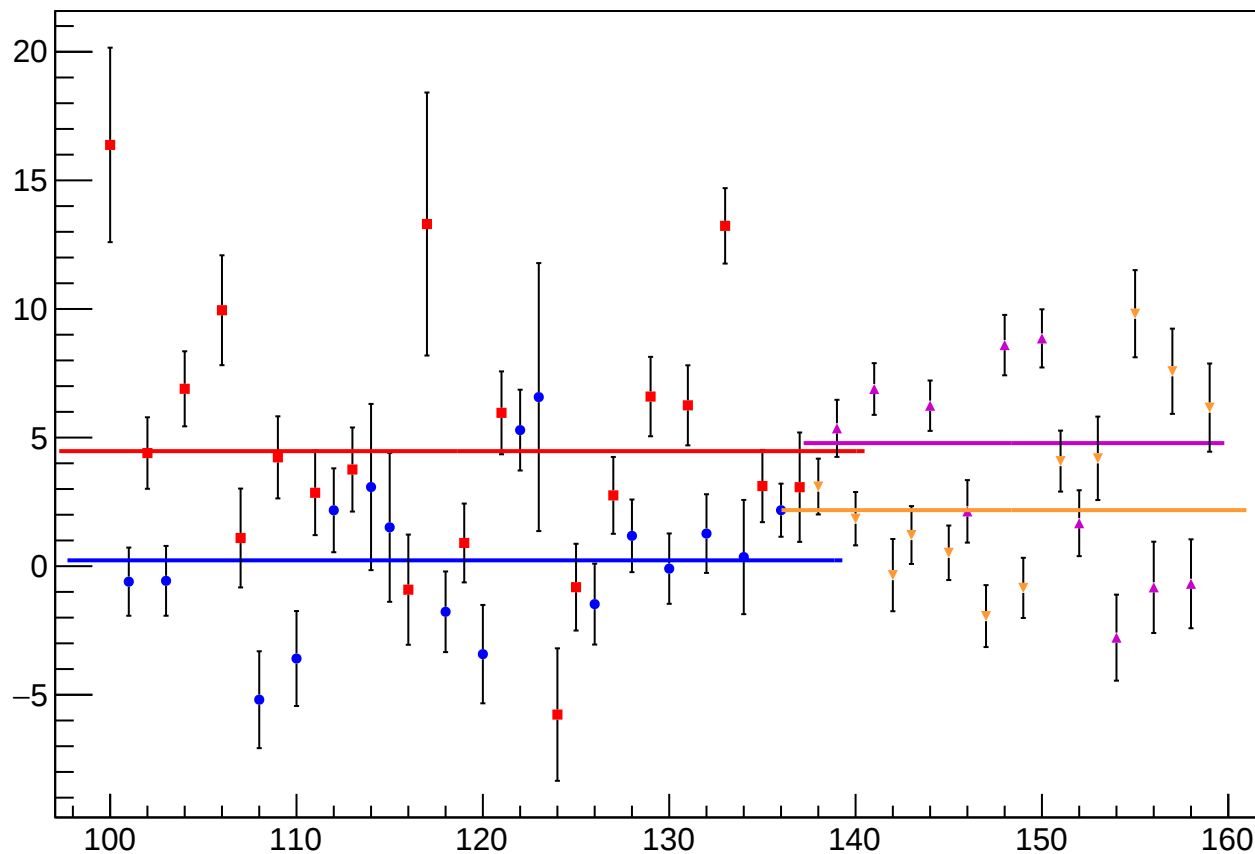
Right Out: 901.725+/-0.239 χ^2/NDF : 114648.1/19

Left In: 984.889+/-0.251 χ^2/NDF : 791263.1/9

933.331+/-0.170 χ^2/NDF : 1024771.1/28

941.129+/-0.173 χ^2/NDF : 963453.1/29

diff_bpm2i01Y_mean vs Slug



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 2.179 ± 0.364 χ^2/NDF : 66.1/11

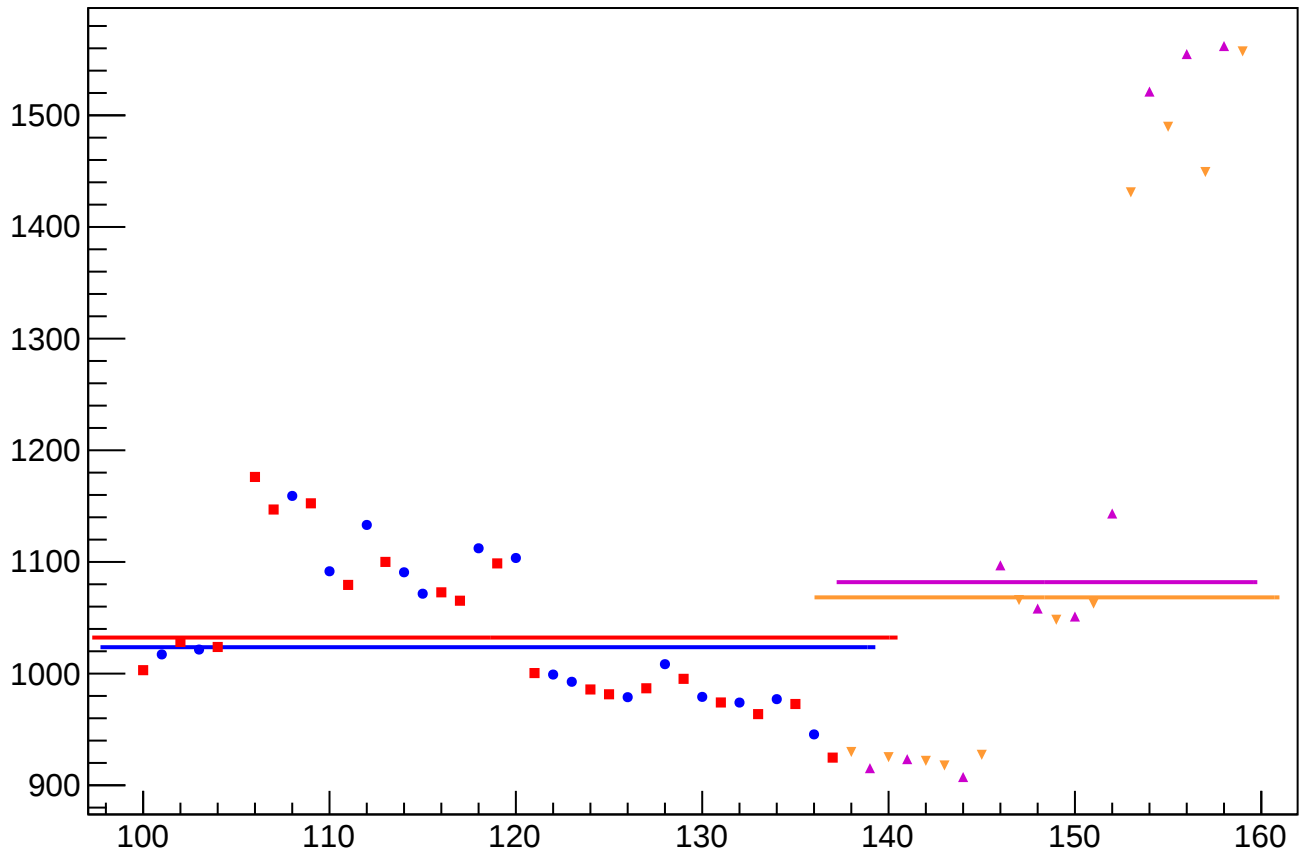
Right Out: 4.473 ± 0.386 χ^2/NDF : 106.3/19

Left In: 4.786 ± 0.388 χ^2/NDF : 81.5/9

1.282 ± 0.268 χ^2/NDF : 117.8/28

4.629 ± 0.273 χ^2/NDF : 188.1/29

diff_bpm2i01Y_rms vs Slug



Right In: 1023.655+/-0.279 χ^2/NDF : 52373.8/16

Left Out: 1068.281+/-0.258 χ^2/NDF : 656495.3/11

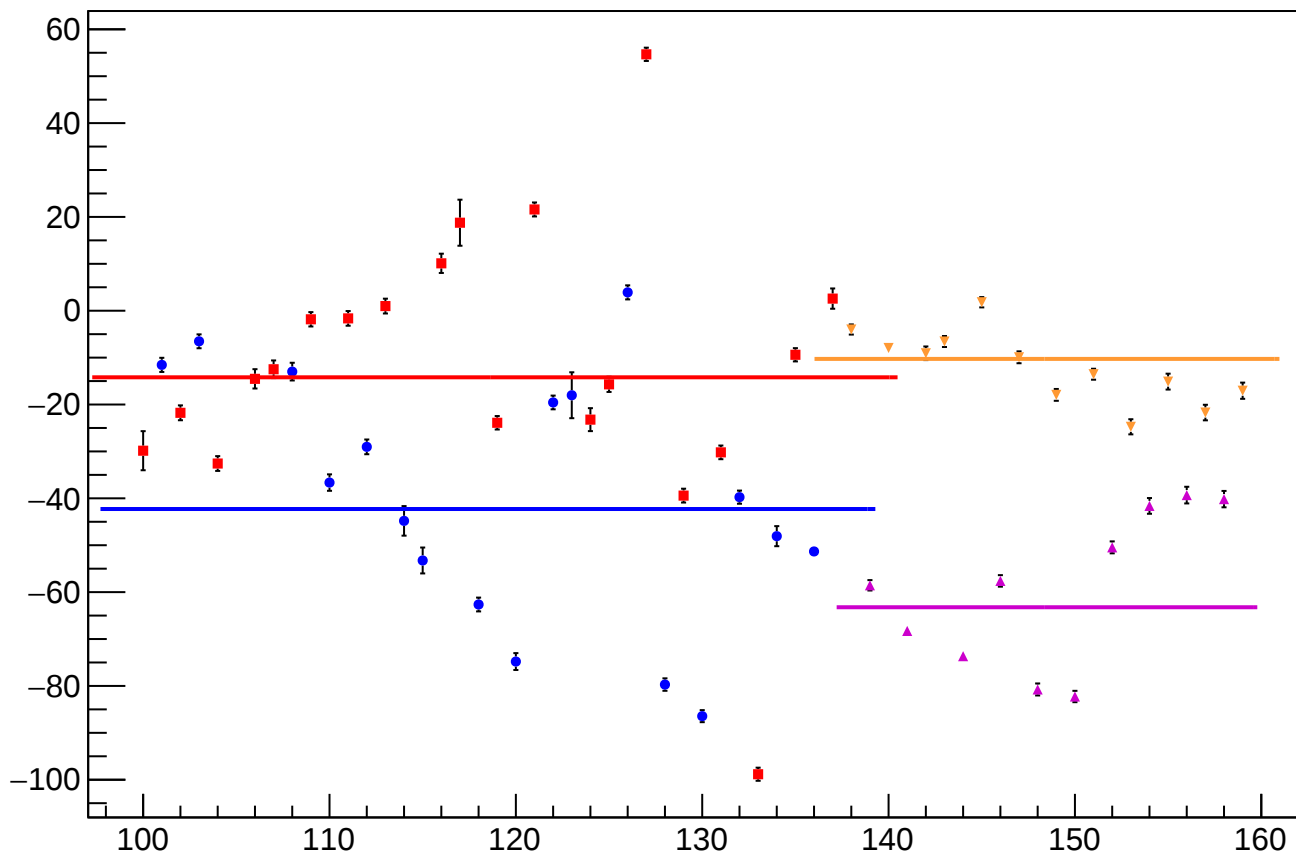
Right Out: 1032.296+/-0.273 χ^2/NDF : 59475.4/19

Left In: 1081.905+/-0.274 χ^2/NDF : 599807.9/9

1047.764+/-0.189 χ^2/NDF : 722661.9/28

1056.959+/-0.193 χ^2/NDF : 675740.0/29

diff_bpm2i02X_mean vs Slug



Right In: -42.278 ± 0.387 $\chi^2/\text{NDF}: 5126.8/16$

Left Out: -10.273 ± 0.373 $\chi^2/\text{NDF}: 366.3/11$

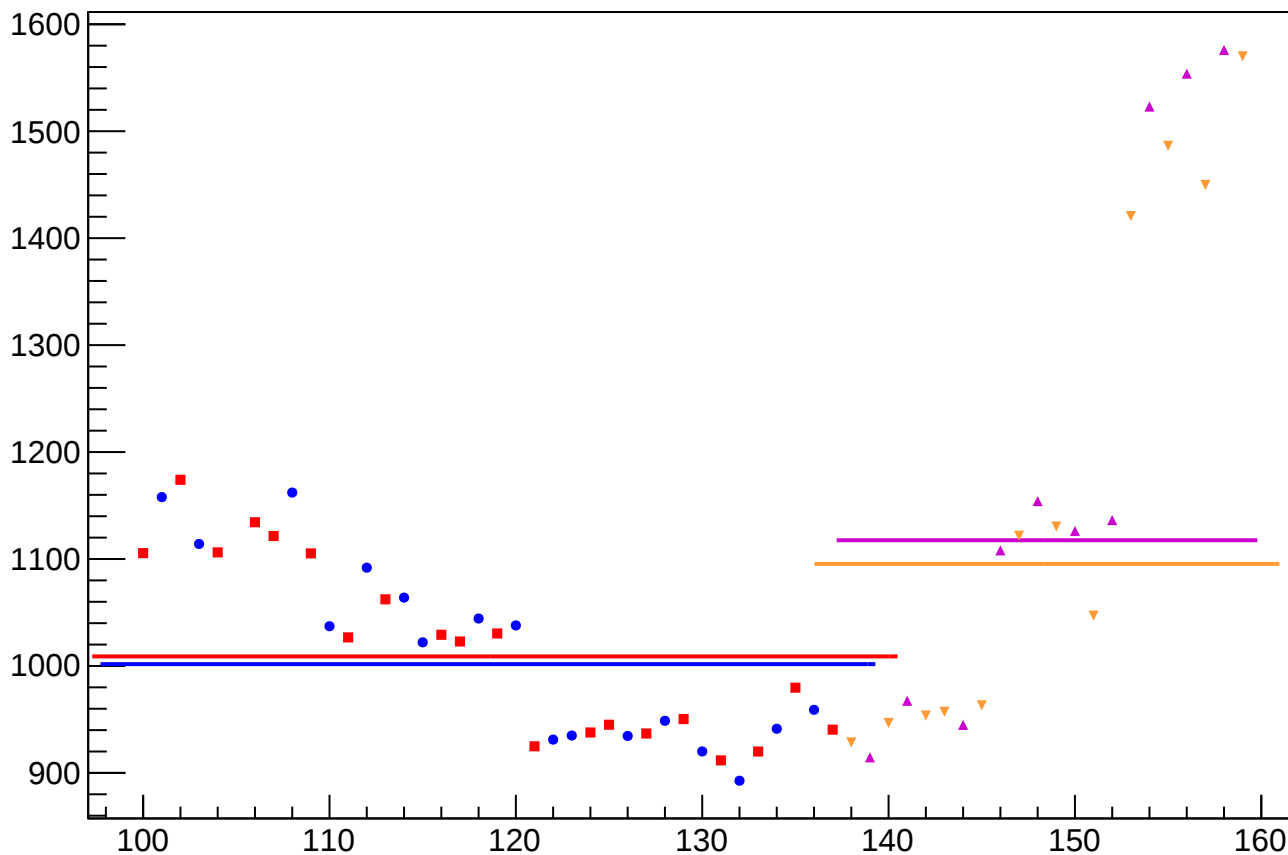
Right Out: -14.197 ± 0.377 $\chi^2/\text{NDF}: 7715.1/19$

Left In: -63.225 ± 0.400 $\chi^2/\text{NDF}: 1222.8/9$

-25.685 ± 0.269 $\chi^2/\text{NDF}: 9036.8/28$

-37.283 ± 0.274 $\chi^2/\text{NDF}: 16886.9/29$

diff_bpm2i02X_rms vs Slug



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1095.432 $\pm$ 0.264 χ^2 /NDF: 598152.3/11

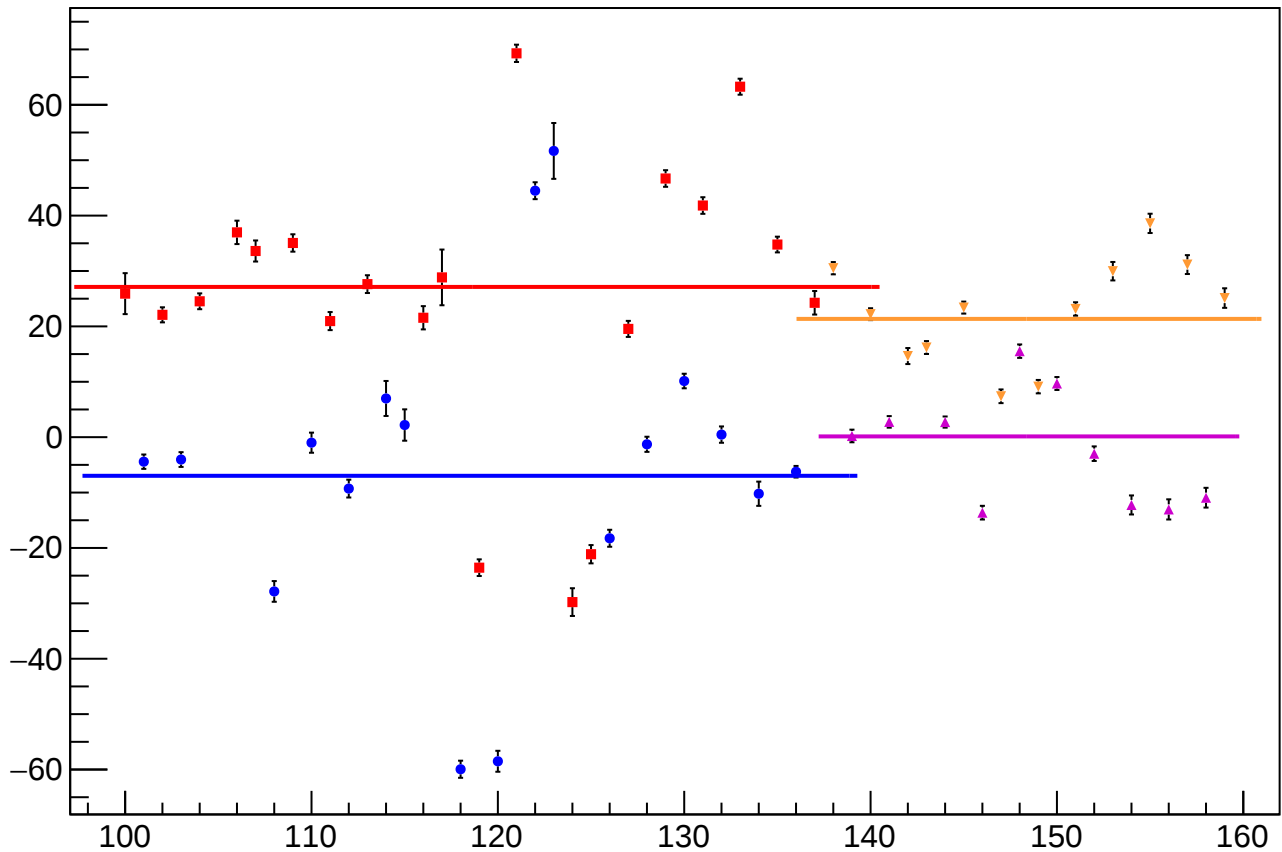
Right Out: 1008.931 $\pm$ 0.267 χ^2 /NDF: 95366.1/19

Left In: 1117.530 $\pm$ 0.283 χ^2 /NDF: 542953.0/9

1050.297 $\pm$ 0.190 χ^2 /NDF: 754409.8/28

1060.067 $\pm$ 0.194 χ^2 /NDF: 716322.9/29

diff_bpm2i02Y_mean vs Slug



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 21.353 ± 0.375 χ^2/NDF : 507.4/11

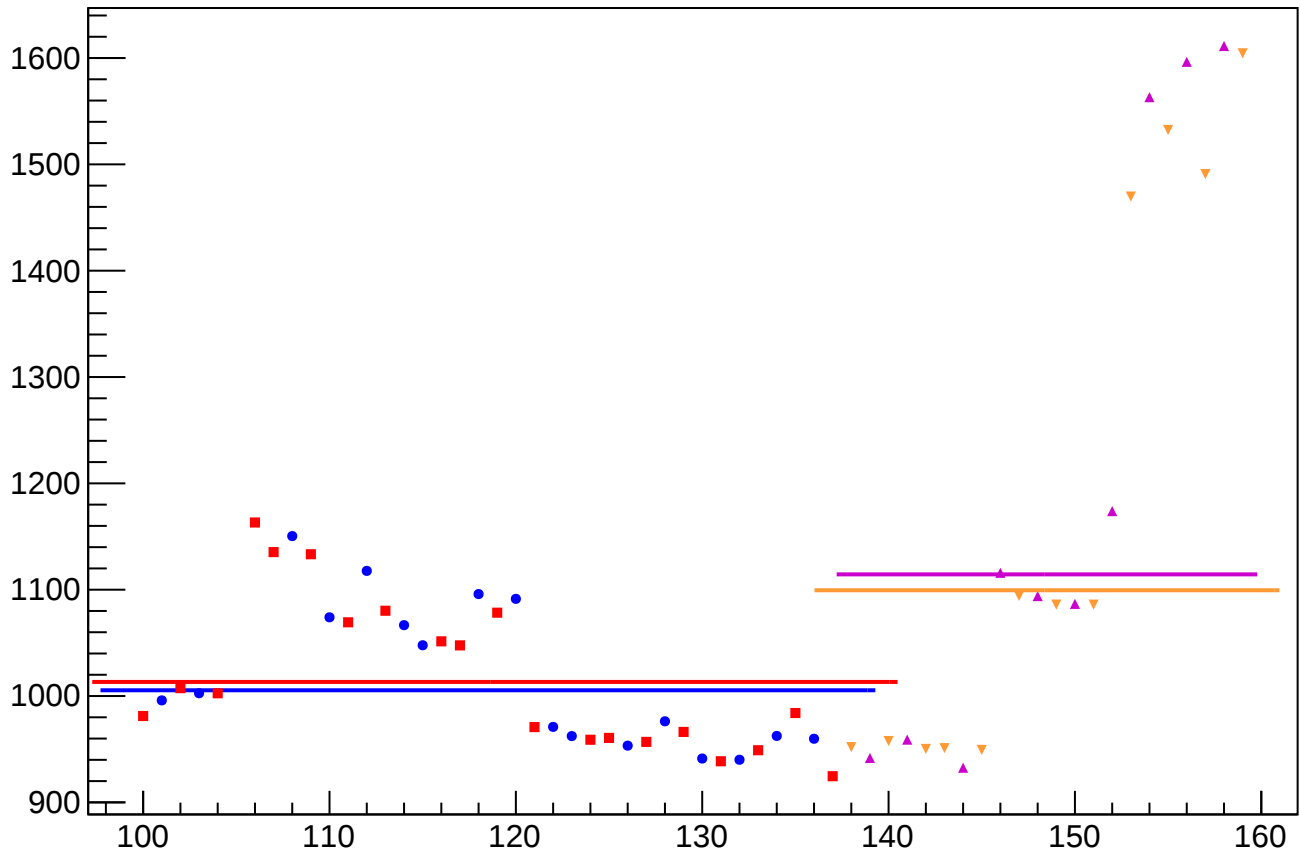
Right Out: 27.125 ± 0.379 χ^2/NDF : 4283.6/19

Left In: 0.138 ± 0.399 χ^2/NDF : 512.8/9

7.673 ± 0.270 χ^2/NDF : 6901.0/28

14.353 ± 0.275 χ^2/NDF : 7202.3/29

diff_bpm2i02Y_rms vs Slug



Right In: 1005.409+/-0.274 χ^2/NDF : 54586.0/16

Left Out: 1099.477+/-0.265 χ^2/NDF : 654032.8/11

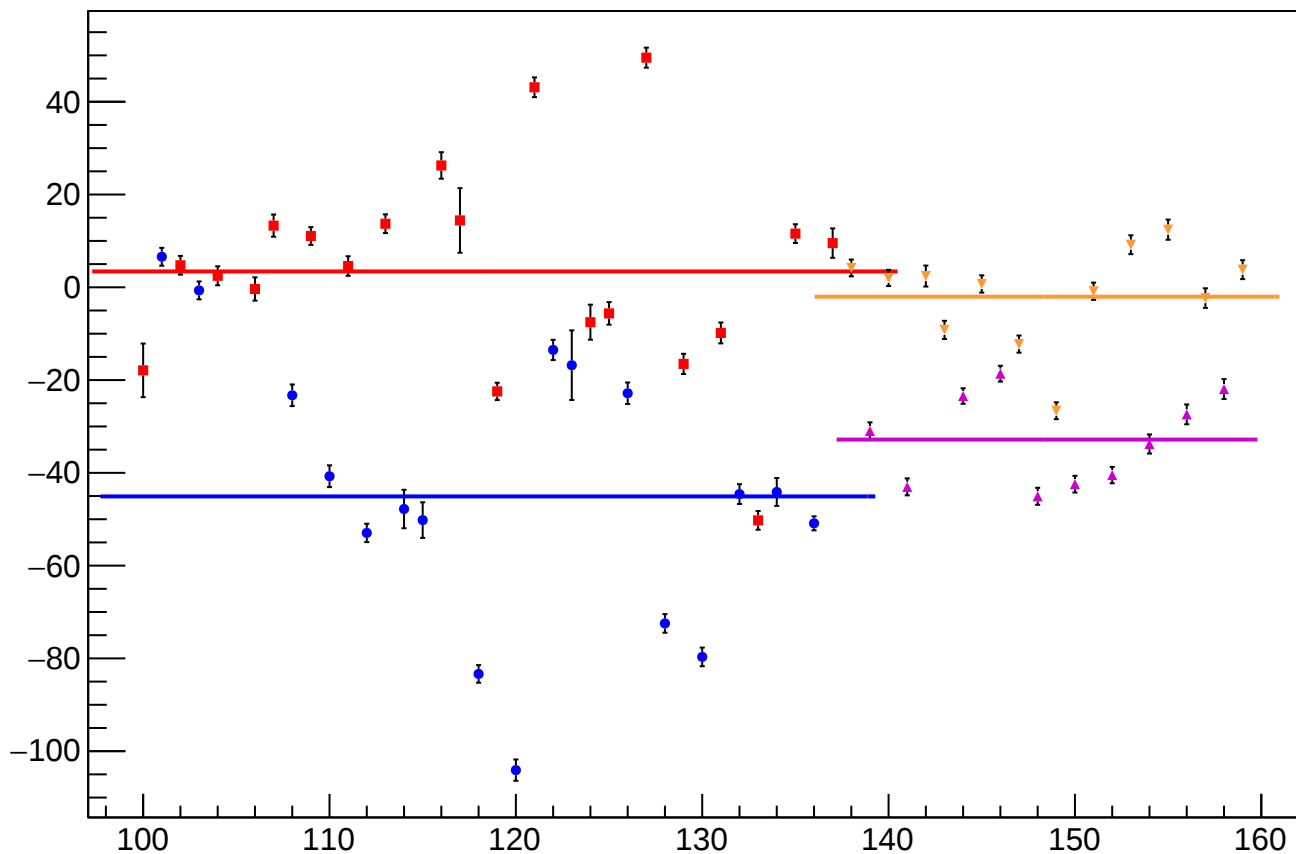
Right Out: 1013.260+/-0.268 χ^2/NDF : 63359.8/19

Left In: 1114.408+/-0.282 χ^2/NDF : 592924.3/9

1054.049+/-0.191 χ^2/NDF : 769418.6/28

1061.129+/-0.194 χ^2/NDF : 723872.9/29

diff_bpm0i02X_mean vs Slug



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.029 ± 0.561 χ^2/NDF : 333.8/11

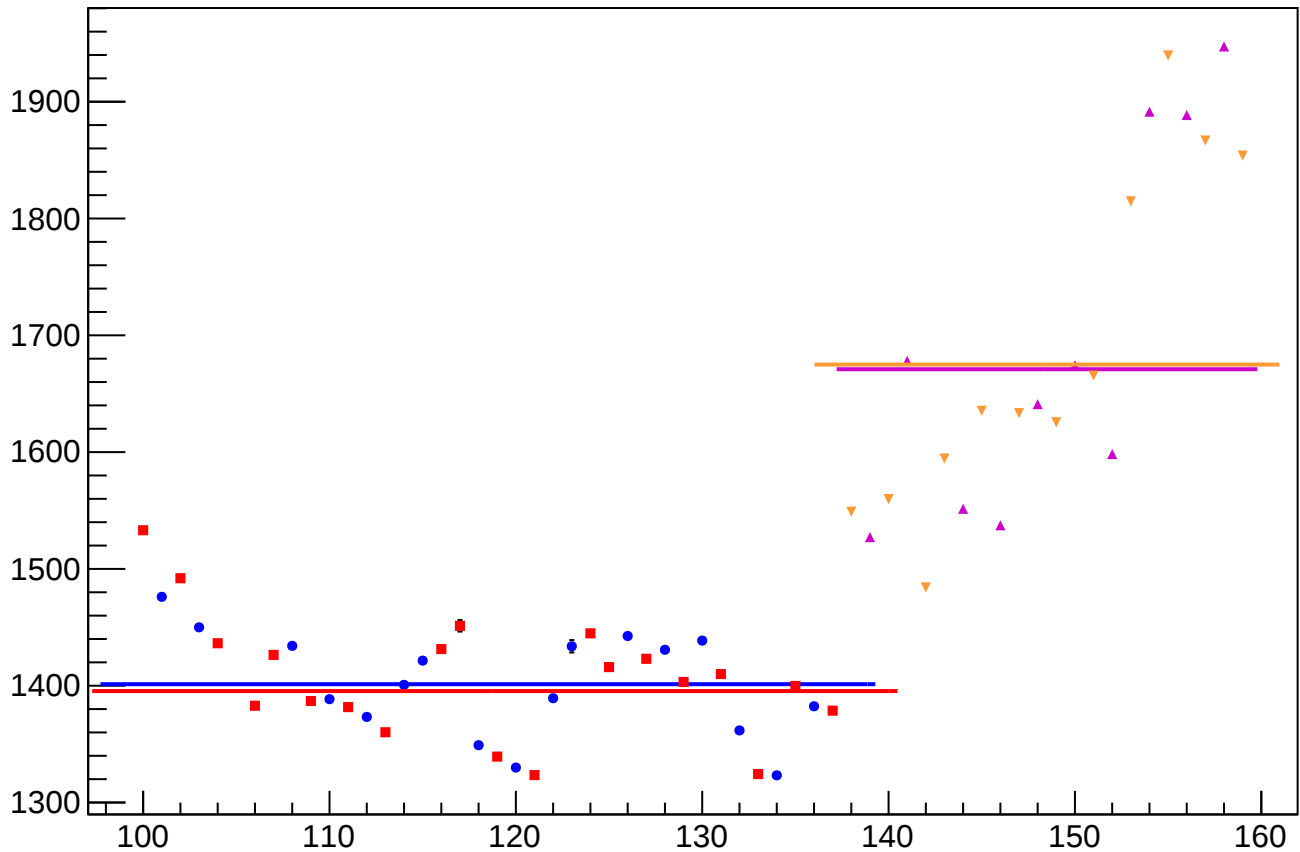
Right Out: 3.419 ± 0.520 χ^2/NDF : 2008.2/19

Left In: -32.824 ± 0.588 χ^2/NDF : 257.0/9

-24.374 ± 0.389 χ^2/NDF : 6632.5/28

-12.486 ± 0.390 χ^2/NDF : 4394.1/29

diff_bpm0i02X_rms vs Slug



Right In: 1401.307+/-0.382 χ^2/NDF : 12852.1/16

Left Out: 1674.964+/-0.396 χ^2/NDF : 110441.1/11

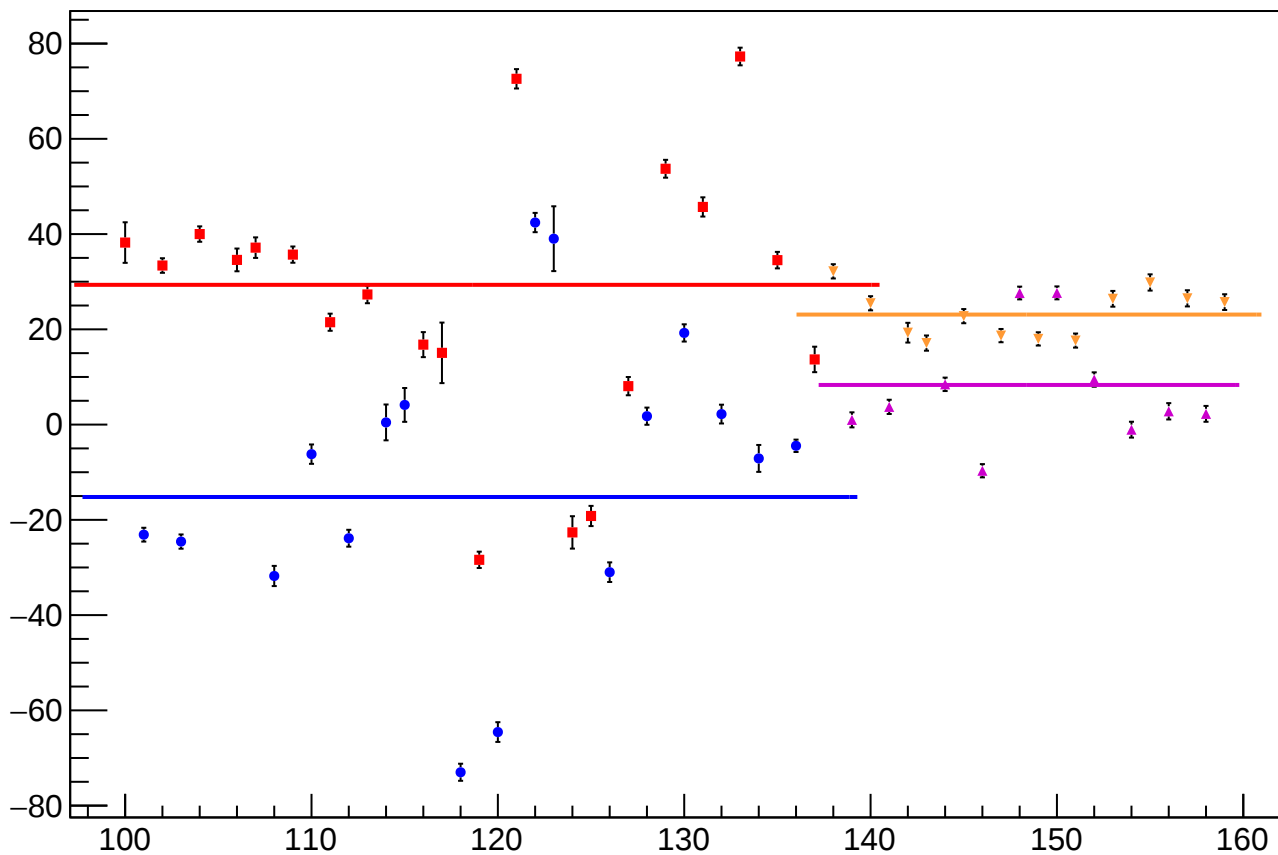
Right Out: 1395.419+/-0.368 χ^2/NDF : 15649.3/19

Left In: 1670.976+/-0.416 χ^2/NDF : 115227.9/9

1532.930+/-0.275 χ^2/NDF : 370620.2/28

1516.344+/-0.276 χ^2/NDF : 377003.4/29

diff_bpm0i02Y_mean vs Slug



Right In: -15.202 $\pm$ 0.472 χ^2 /NDF: 3362.5/16

Left Out: 23.102 $\pm$ 0.453 χ^2 /NDF:119.9/11

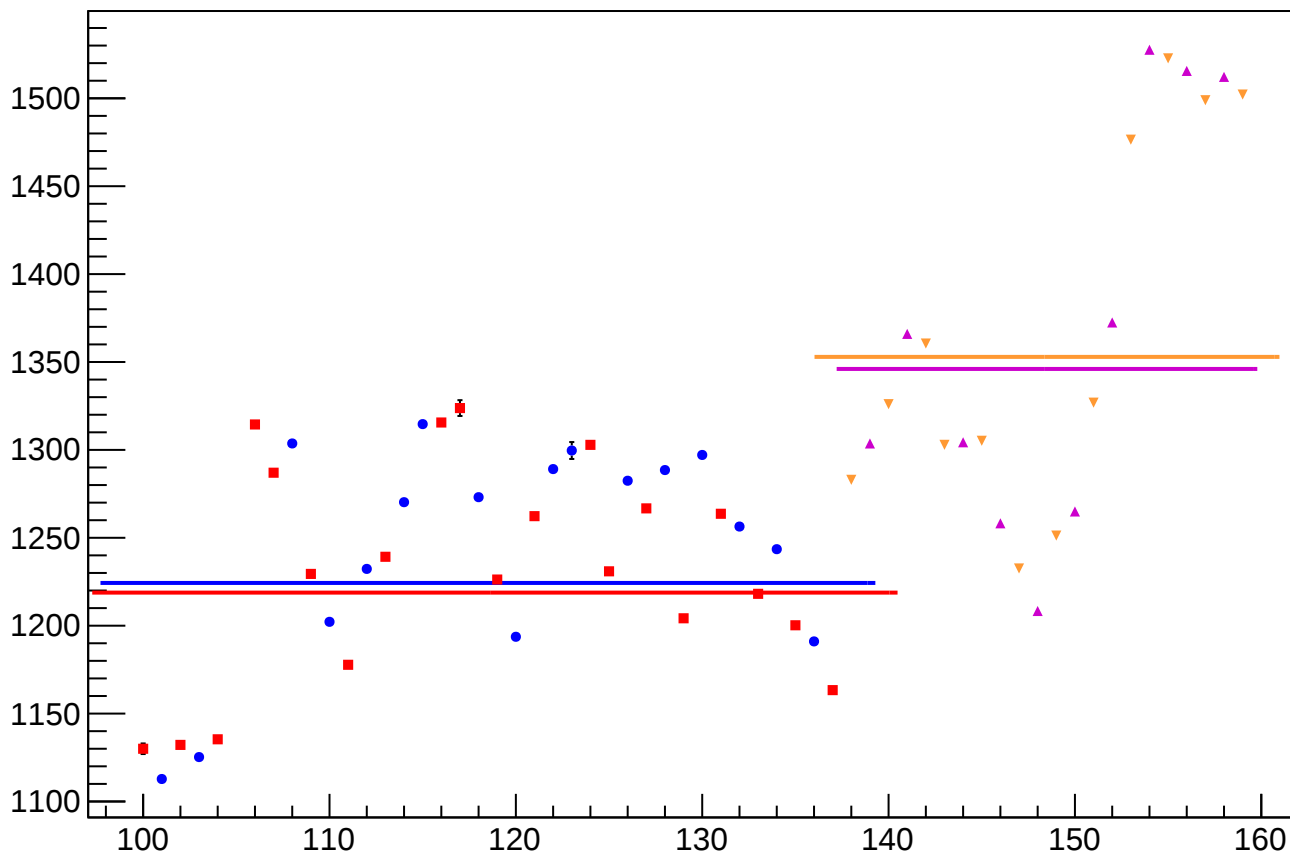
Right Out: 29.344 $\pm$ 0.455 χ^2 /NDF: 3549.9/19

Left In: 8.323 $\pm$ 0.473 χ^2 /NDF:663.5/9

4.758 $\pm$ 0.327 χ^2 /NDF: 6912.4/28

19.248 $\pm$ 0.328 χ^2 /NDF: 5238.4/29

diff_bpm0i02Y_rms vs Slug



Right In: 1224.320 $\pm$ 0.334 χ^2 /NDF: 38778.2/16

Left Out: 1352.910 $\pm$ 0.320 χ^2 /NDF: 97279.9/11

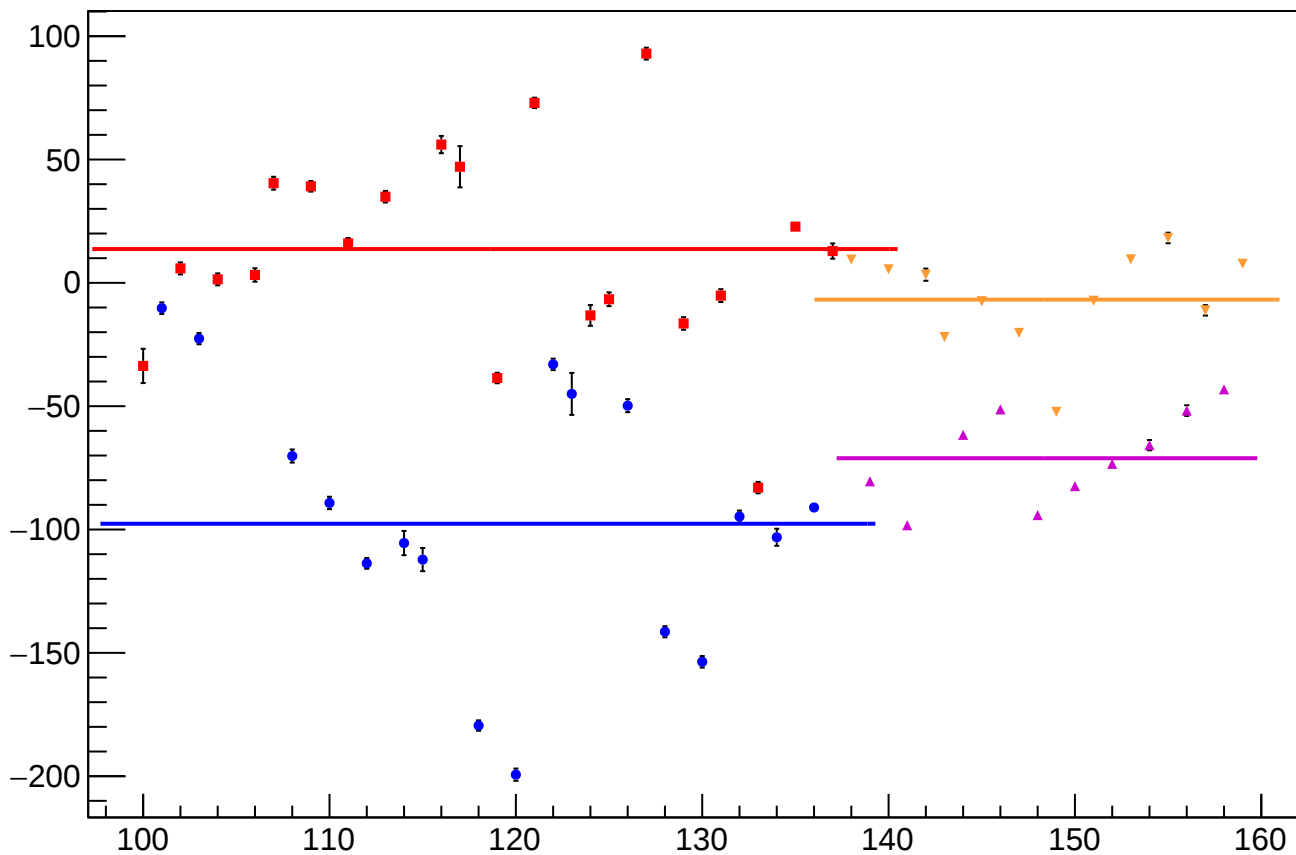
Right Out: 1218.817 $\pm$ 0.322 χ^2 /NDF: 28121.5/19

Left In: 1346.052 $\pm$ 0.335 χ^2 /NDF: 103531.0/9

1291.325 $\pm$ 0.231 χ^2 /NDF: 213370.3/28

1279.923 $\pm$ 0.232 χ^2 /NDF: 206756.1/29

diff_bpm0i02aX_mean vs Slug



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -6.794 ± 0.565 χ^2/NDF : 1129.2/11

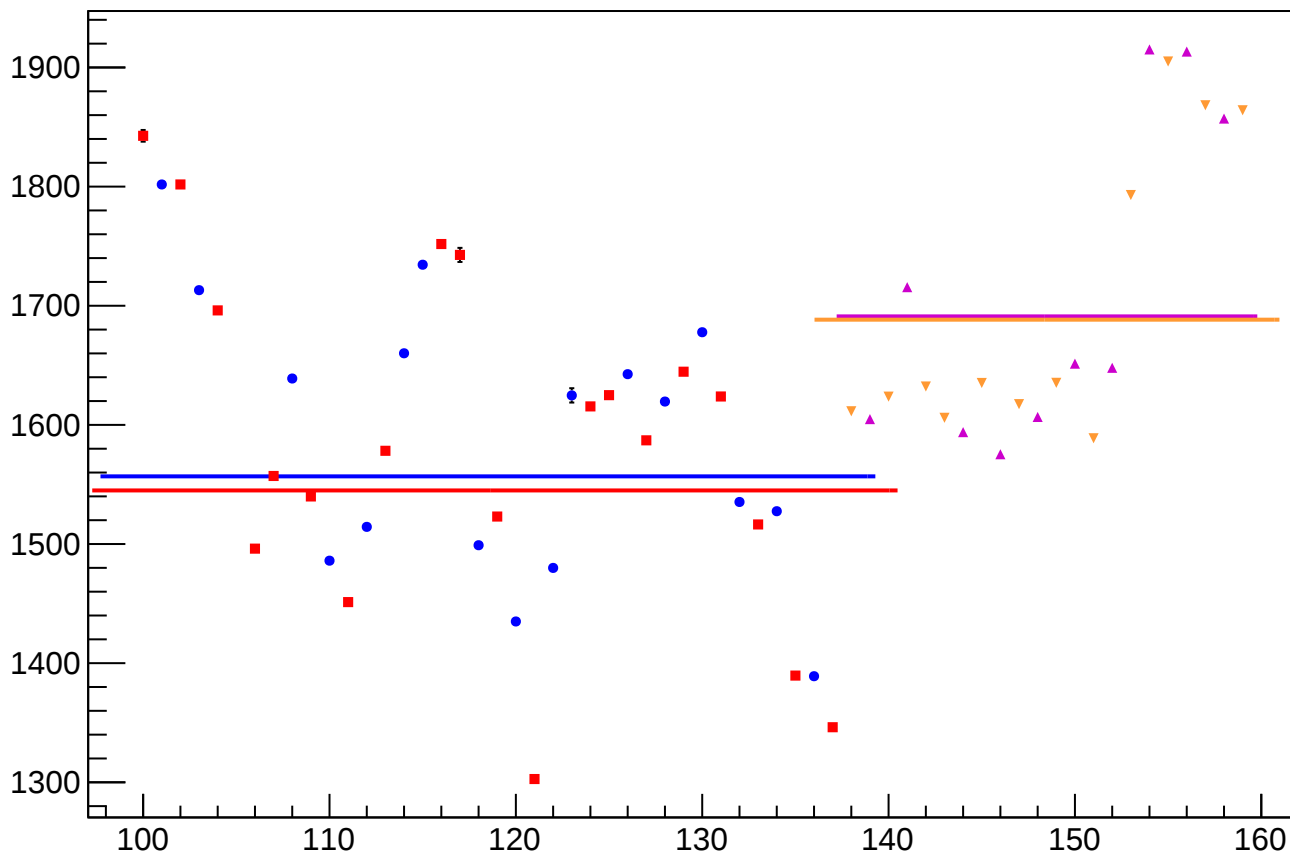
Right Out: 13.698 ± 0.578 χ^2/NDF : 5144.2/19

Left In: -71.093 ± 0.594 χ^2/NDF : 873.2/9

-49.383 ± 0.412 χ^2/NDF : 21196.8/28

-27.504 ± 0.414 χ^2/NDF : 16475.1/29

diff_bpm0i02aX_rms vs Slug



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1688.310 $\pm$ 0.399 χ^2 /NDF: 78121.5/11

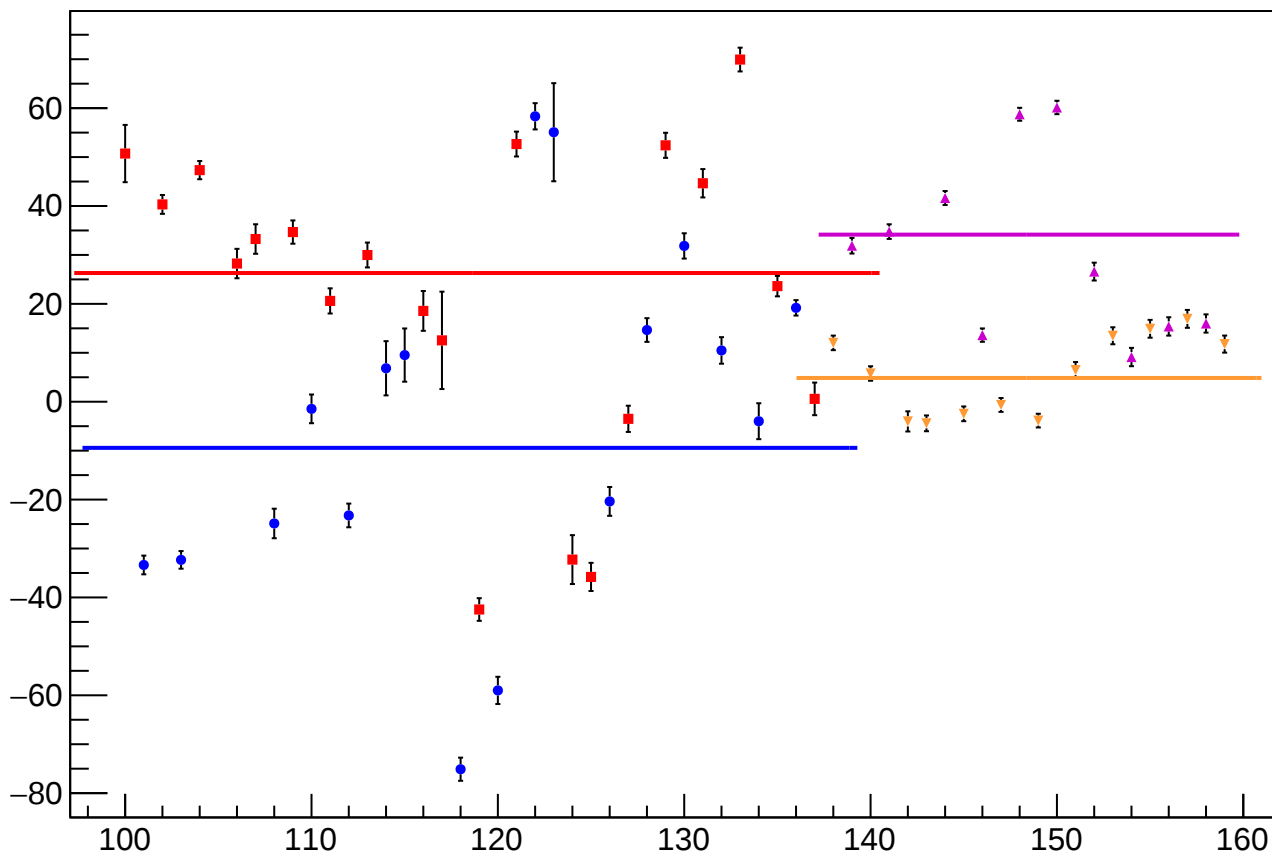
Right Out: 1544.983 $\pm$ 0.409 χ^2 /NDF: 101624.6/19

Left In: 1691.071 $\pm$ 0.420 χ^2 /NDF: 83331.4/9

1626.669 $\pm$ 0.291 χ^2 /NDF: 210495.0/28

1615.971 $\pm$ 0.293 χ^2 /NDF: 247041.7/29

diff_bpm0i02aY_mean vs Slug



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 4.857 ± 0.466 χ^2/NDF : 268.0/11

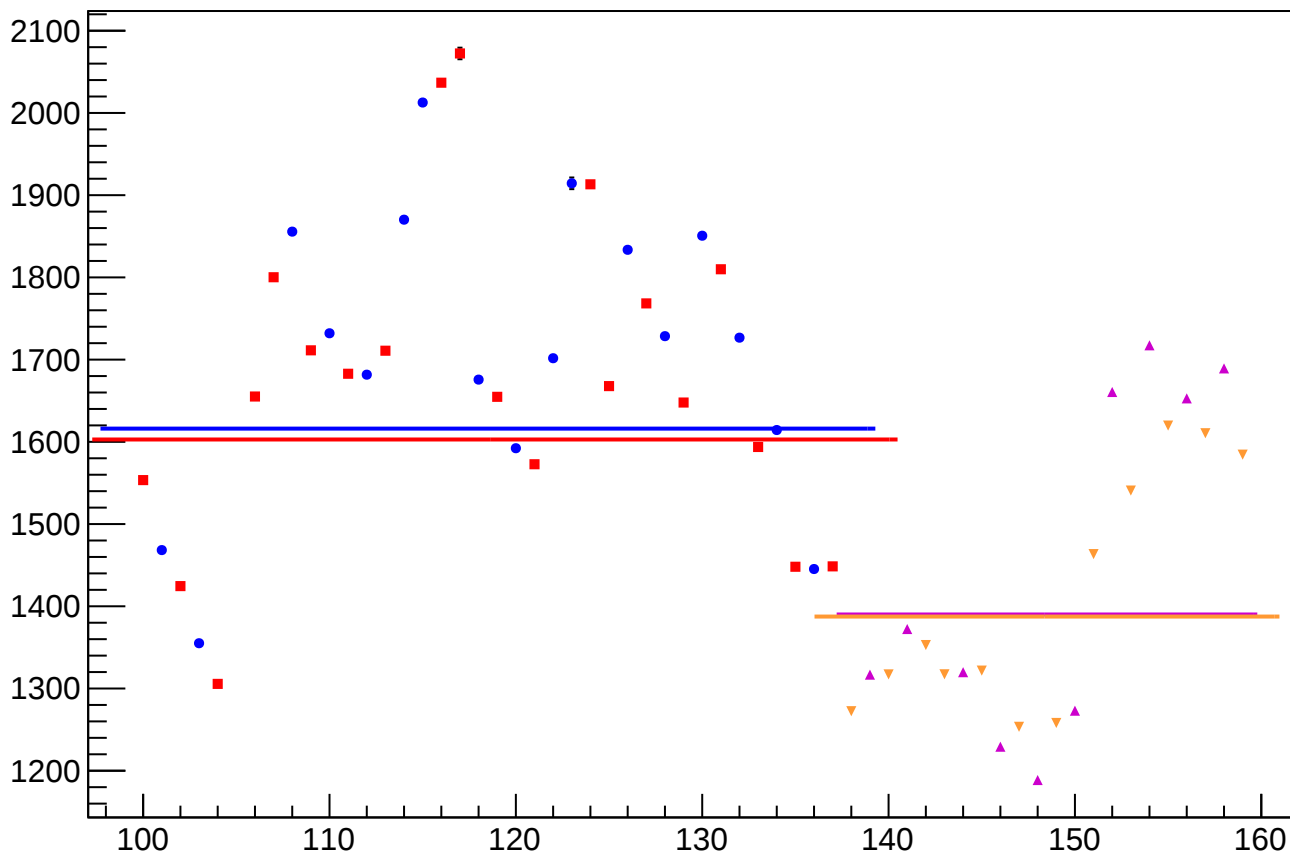
Right Out: 26.304 ± 0.602 χ^2/NDF : 2474.0/19

Left In: 34.149 ± 0.492 χ^2/NDF : 1353.8/9

-0.228 ± 0.374 χ^2/NDF : 3526.9/28

31.005 ± 0.381 χ^2/NDF : 3929.7/29

diff_bpm0i02aY_rms vs Slug



Right In: 1616.094 ± 0.443 χ^2/NDF : 149596.3/16

Left Out: 1387.505 ± 0.329 χ^2/NDF : 167270.2/11

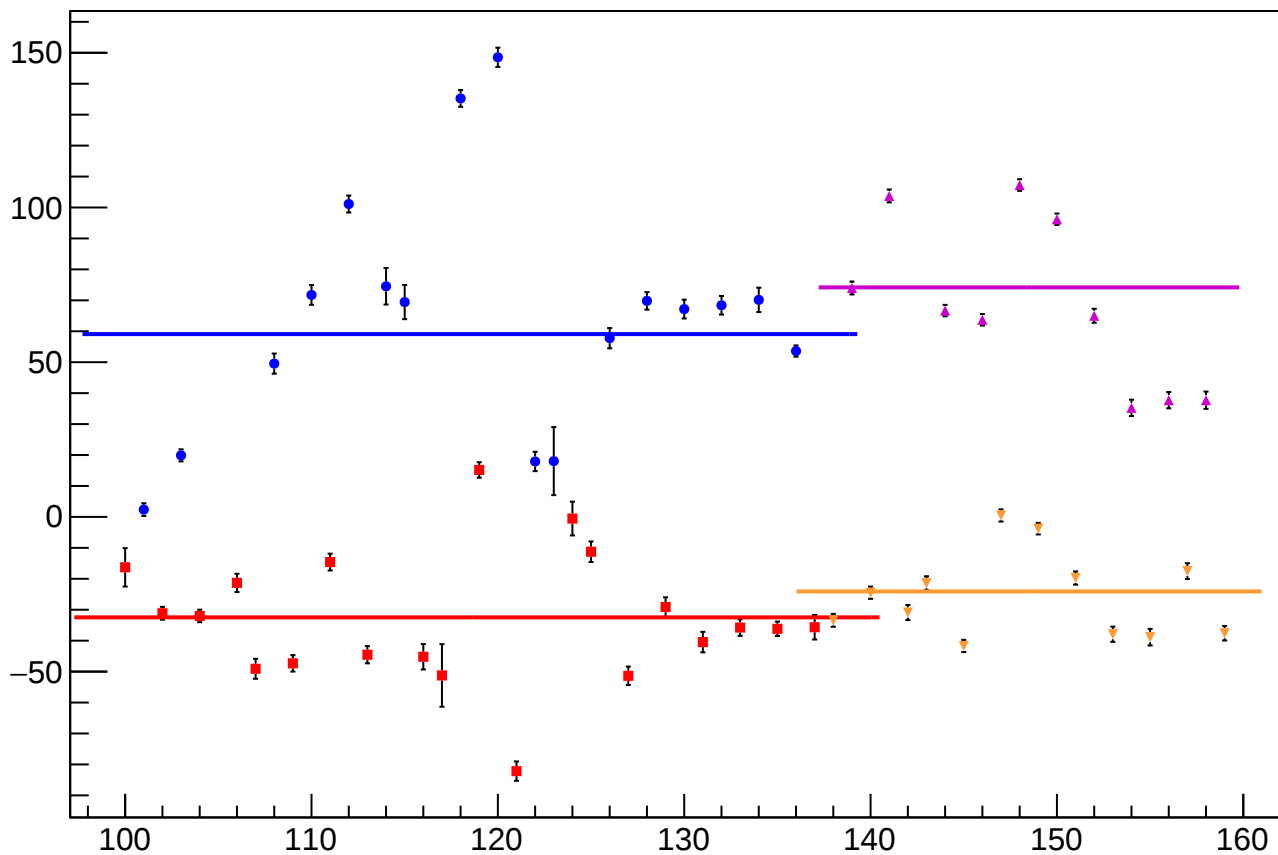
Right Out: 1602.857 ± 0.425 χ^2/NDF : 158119.5/19

Left In: 1390.017 ± 0.348 χ^2/NDF : 294022.9/9

1468.881 ± 0.264 χ^2/NDF : 488360.7/28

1475.316 ± 0.269 χ^2/NDF : 602106.8/29

diff_bpm0i05X_mean vs Slug



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -24.092 ± 0.632 χ^2/NDF : 487.1/11

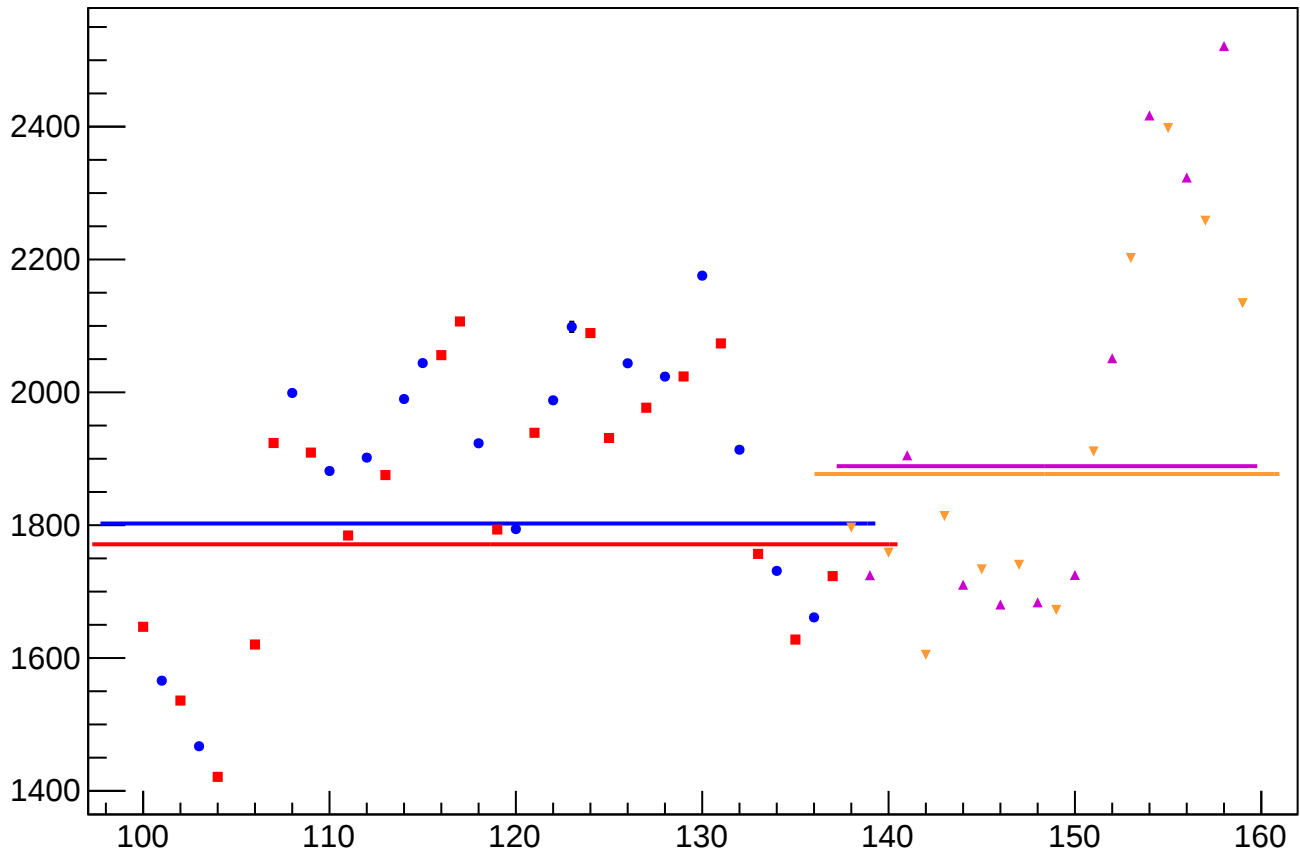
Right Out: -32.463 ± 0.665 χ^2/NDF : 894.9/19

Left In: 74.177 ± 0.670 χ^2/NDF : 1297.8/9

13.269 ± 0.469 χ^2/NDF : 11569.0/28

20.442 ± 0.472 χ^2/NDF : 14949.0/29

diff_bpm0i05X_rms vs Slug



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1877.029+/-0.447 χ^2/NDF : 259188.8/11

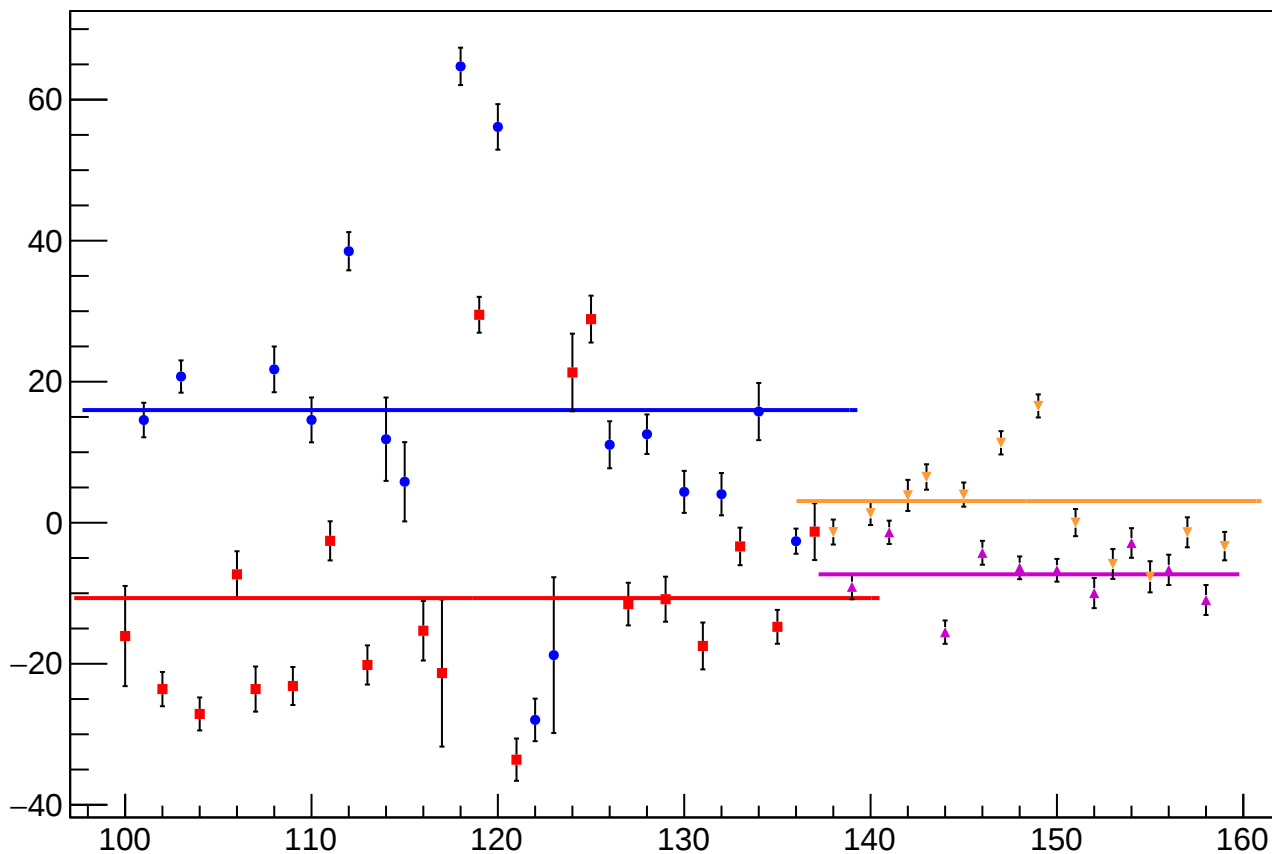
Right Out: 1771.228+/-0.470 χ^2/NDF : 180101.6/19

Left In: 1888.835+/-0.474 χ^2/NDF : 343274.7/9

1843.561+/-0.331 χ^2/NDF : 455756.9/28

1829.574+/-0.334 χ^2/NDF : 554405.5/29

diff_bpm0i05Y_mean vs Slug



Right In: 15.976 ± 0.722 χ^2/NDF : 938.4/16

Left Out: 3.072 ± 0.539 χ^2/NDF : 162.7/11

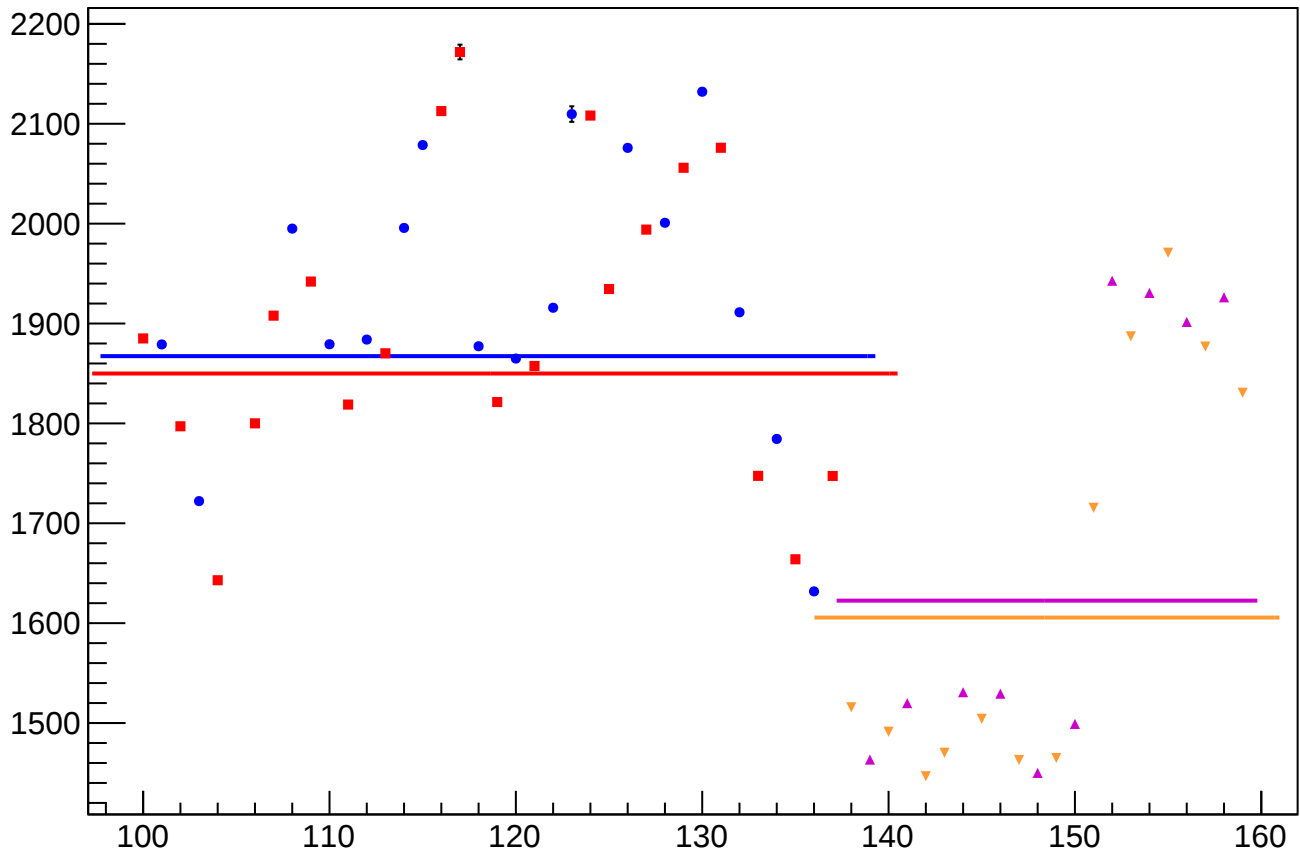
Right Out: -10.685 ± 0.692 χ^2/NDF : 643.2/19

Left In: -7.313 ± 0.573 χ^2/NDF : 51.2/9

7.697 ± 0.432 χ^2/NDF : 1306.2/28

-8.684 ± 0.441 χ^2/NDF : 708.5/29

diff_bpm0i05Y_rms vs Slug



Right In: 1867.343+/-0.510 χ^2/NDF : 80926.4/16

Left Out: 1605.586+/-0.381 χ^2/NDF : 227140.2/11

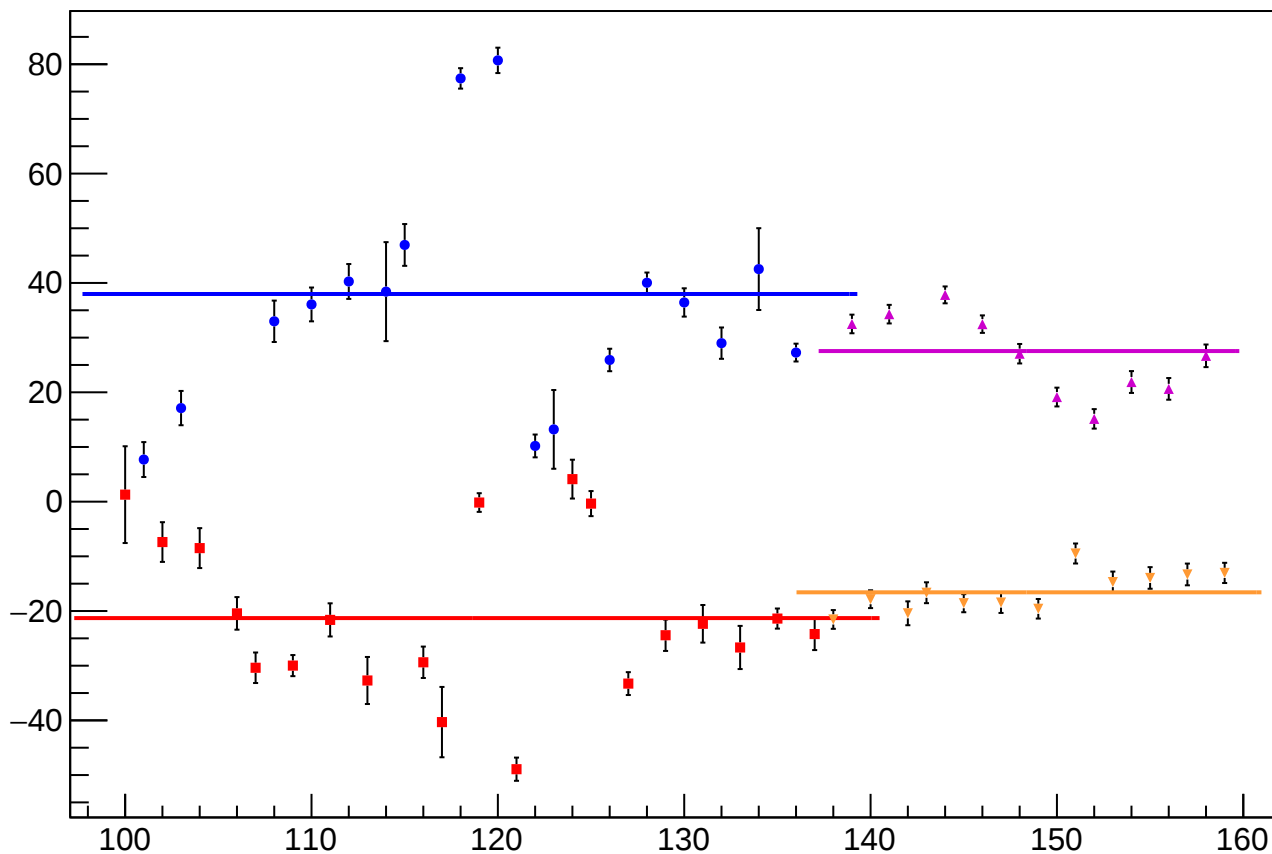
Right Out: 1849.954+/-0.489 χ^2/NDF : 74440.9/19

Left In: 1622.548+/-0.405 χ^2/NDF : 233202.5/9

1699.412+/-0.305 χ^2/NDF : 476892.1/28

1715.022+/-0.312 χ^2/NDF : 435865.8/29

diff_bpm0i07X_mean vs Slug



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -16.581 ± 0.532 $\chi^2/\text{NDF}: 41.5/11$

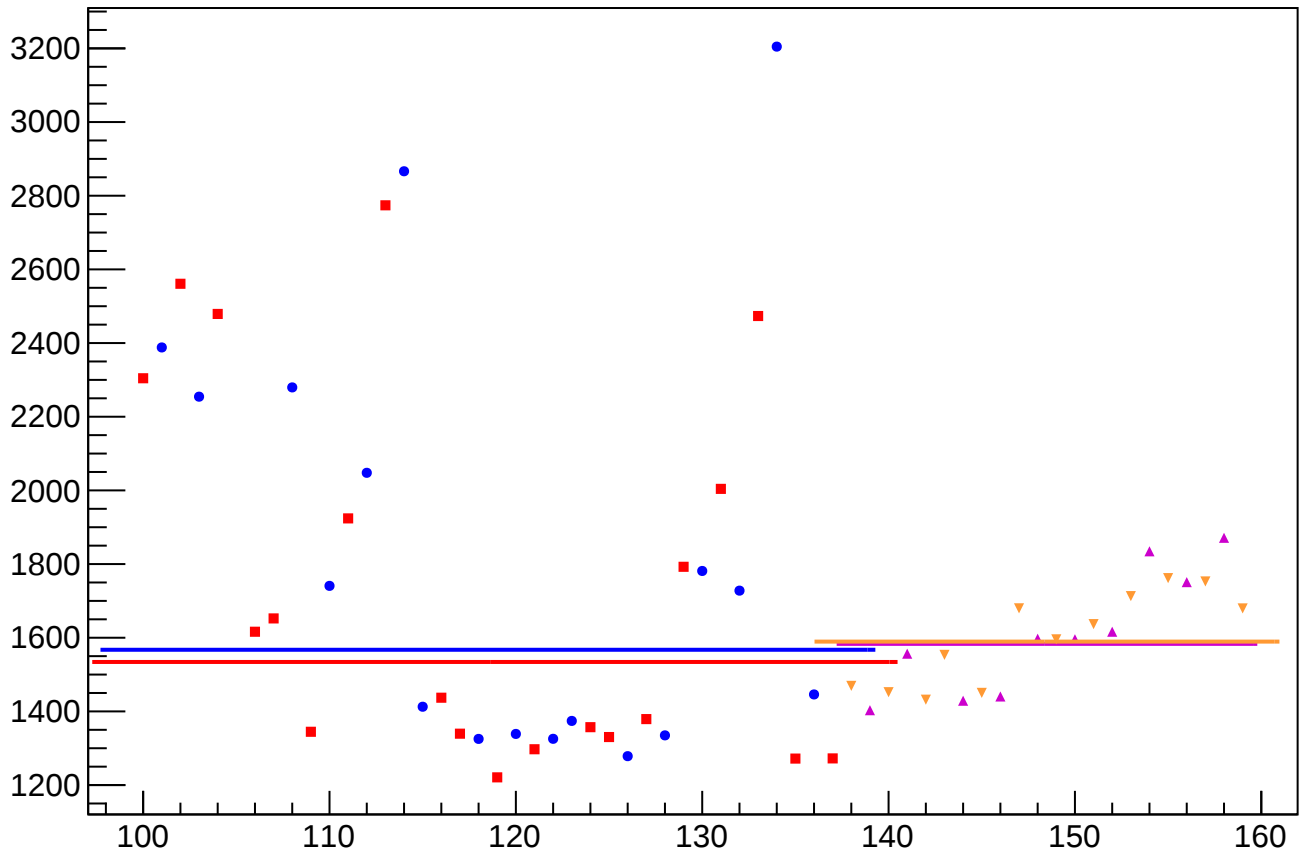
Right Out: -21.294 ± 0.606 $\chi^2/\text{NDF}: 582.5/19$

Left In: 27.543 ± 0.558 $\chi^2/\text{NDF}: 170.8/9$

5.847 ± 0.409 $\chi^2/\text{NDF}: 5561.2/28$

5.108 ± 0.410 $\chi^2/\text{NDF}: 4268.6/29$

diff_bpm0i07X_rms vs Slug



Right In: 1567.328+/-0.451 χ^2 /NDF: 673450.6/16

Left Out: 1589.499+/-0.377 χ^2 /NDF: 96955.6/11

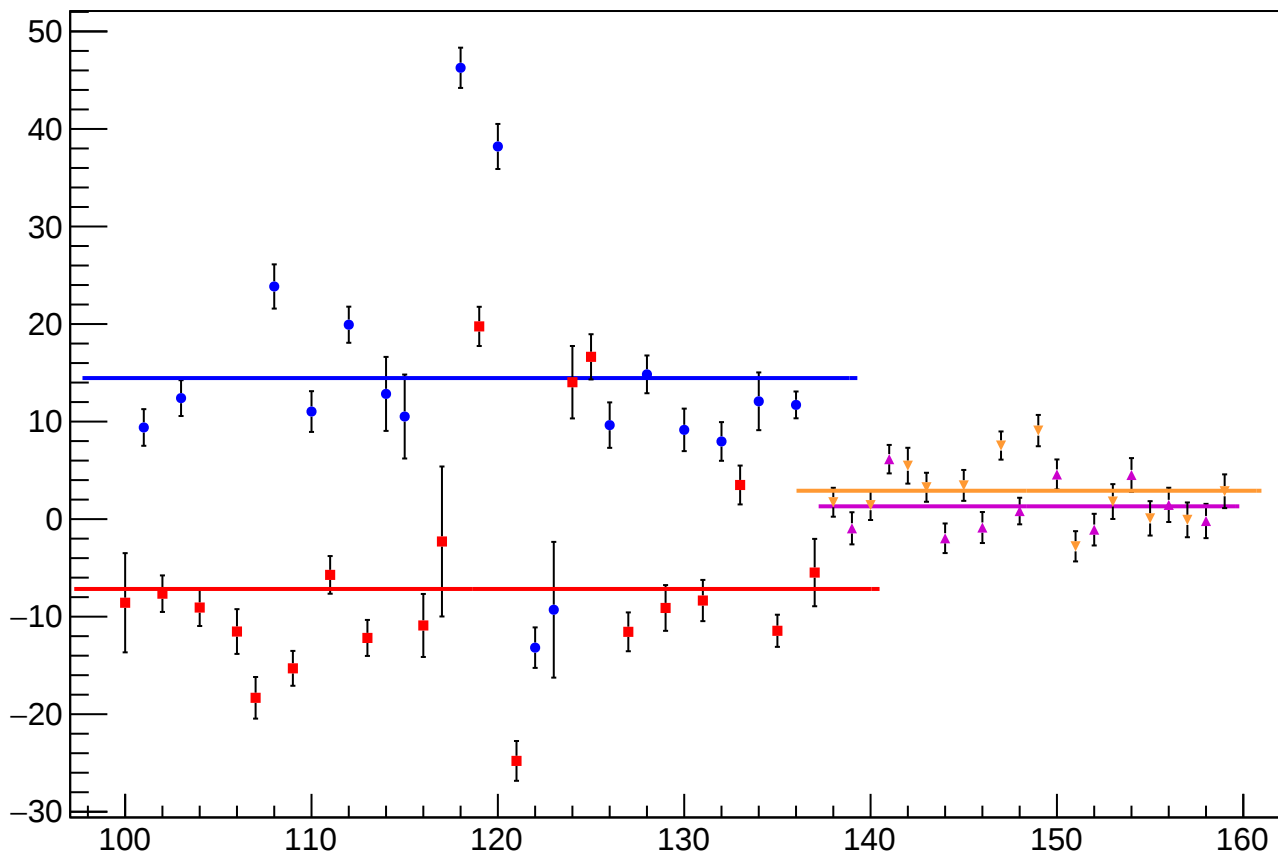
Right Out: 1534.225+/-0.428 χ^2 /NDF: 883947.6/19

Left In: 1583.362+/-0.395 χ^2 /NDF: 144436.2/9

1580.385+/-0.289 χ^2 /NDF: 771831.4/28

1560.789+/-0.290 χ^2 /NDF: 1035500.9/29

diff_bpm0i07Y_mean vs Slug



Right In: 14.461+/-0.523 χ^2/NDF : 595.9/16

Left Out: 2.909+/-0.466 χ^2/NDF : 48.0/11

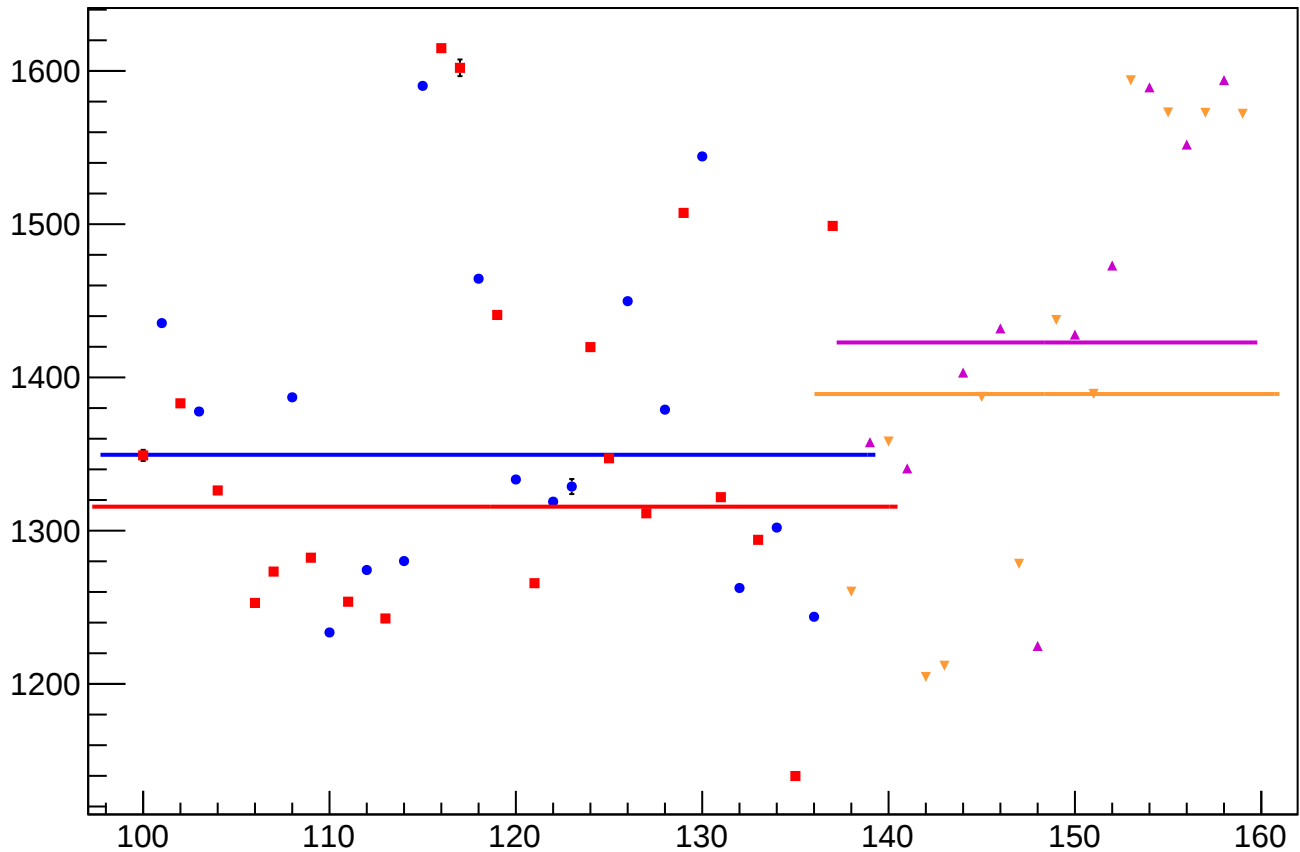
Right Out: -7.161+/-0.493 χ^2/NDF : 496.1/19

Left In: 1.312+/-0.501 χ^2/NDF : 30.4/9

8.022+/-0.348 χ^2/NDF : 915.6/28

-2.986+/-0.351 χ^2/NDF : 671.7/29

diff_bpm0i07Y_rms vs Slug



Right In: 1349.522+/-0.370 χ^2/NDF : 64667.6/16

Left Out: 1389.174+/-0.330 χ^2/NDF : 169757.5/11

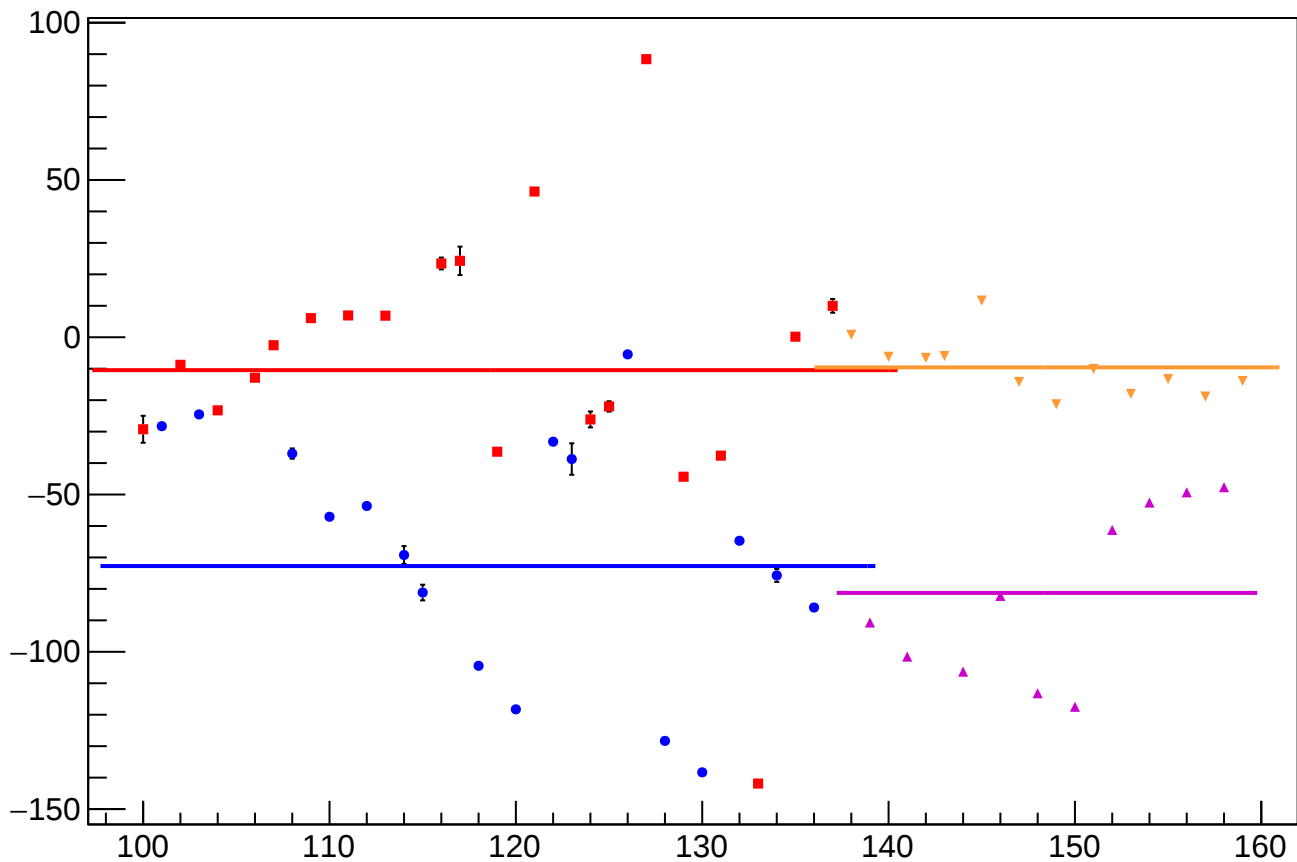
Right Out: 1315.669+/-0.349 χ^2/NDF : 83739.0/19

Left In: 1422.808+/-0.354 χ^2/NDF : 102450.3/9

1371.623+/-0.246 χ^2/NDF : 240827.7/28

1368.463+/-0.248 χ^2/NDF : 232668.7/29

diff_bpm1i02X_mean vs Slug



Right In: -72.741 ± 0.362 $\chi^2/\text{NDF}: 11690.4/16$

Left Out: -9.584 ± 0.314 $\chi^2/\text{NDF}: 802.9/11$

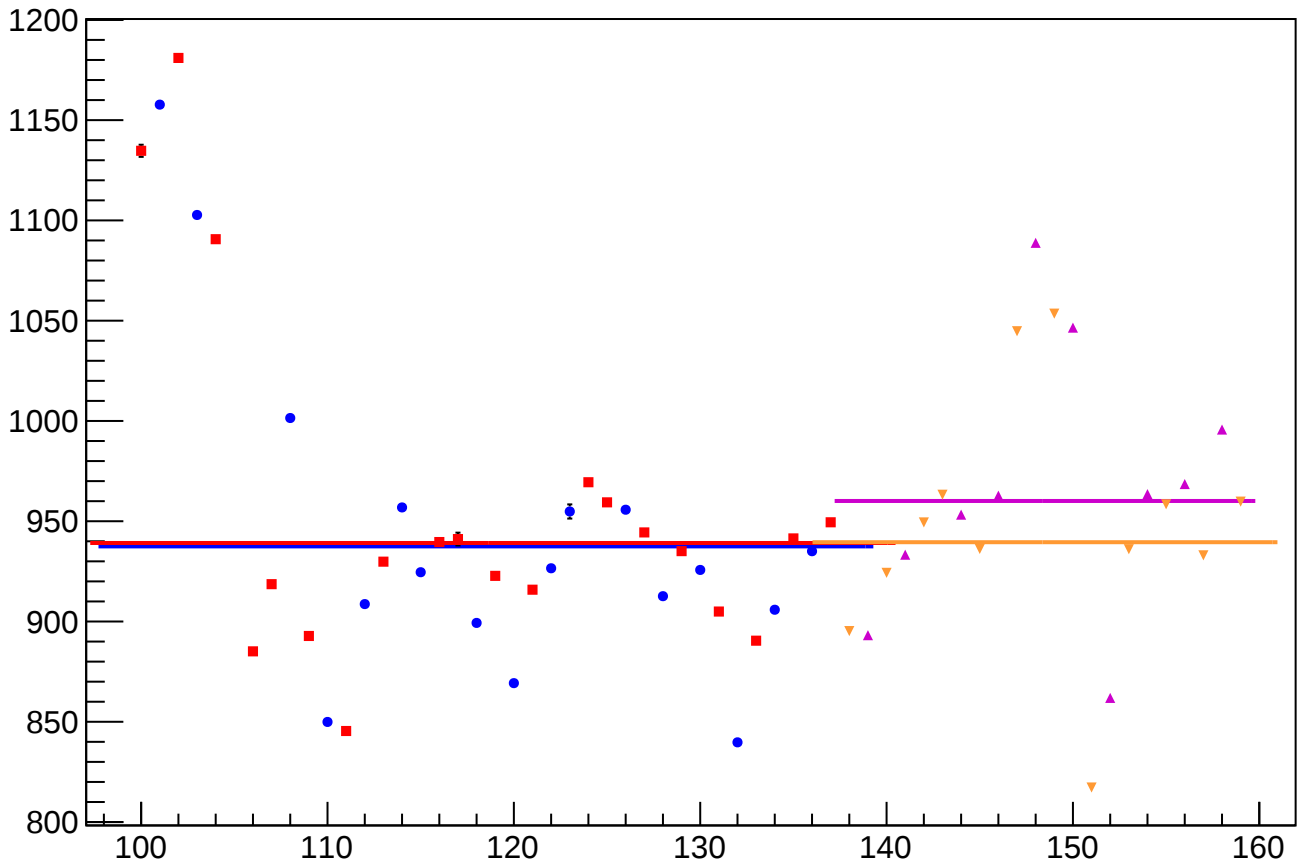
Right Out: -10.459 ± 0.351 $\chi^2/\text{NDF}: 18230.6/19$

Left In: -81.271 ± 0.337 $\chi^2/\text{NDF}: 5769.8/9$

-36.702 ± 0.237 $\chi^2/\text{NDF}: 29828.2/28$

-47.301 ± 0.243 $\chi^2/\text{NDF}: 45144.7/29$

diff_bpm1i02X_rms vs Slug



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 939.541 ± 0.222 χ^2/NDF : 77078.8/11

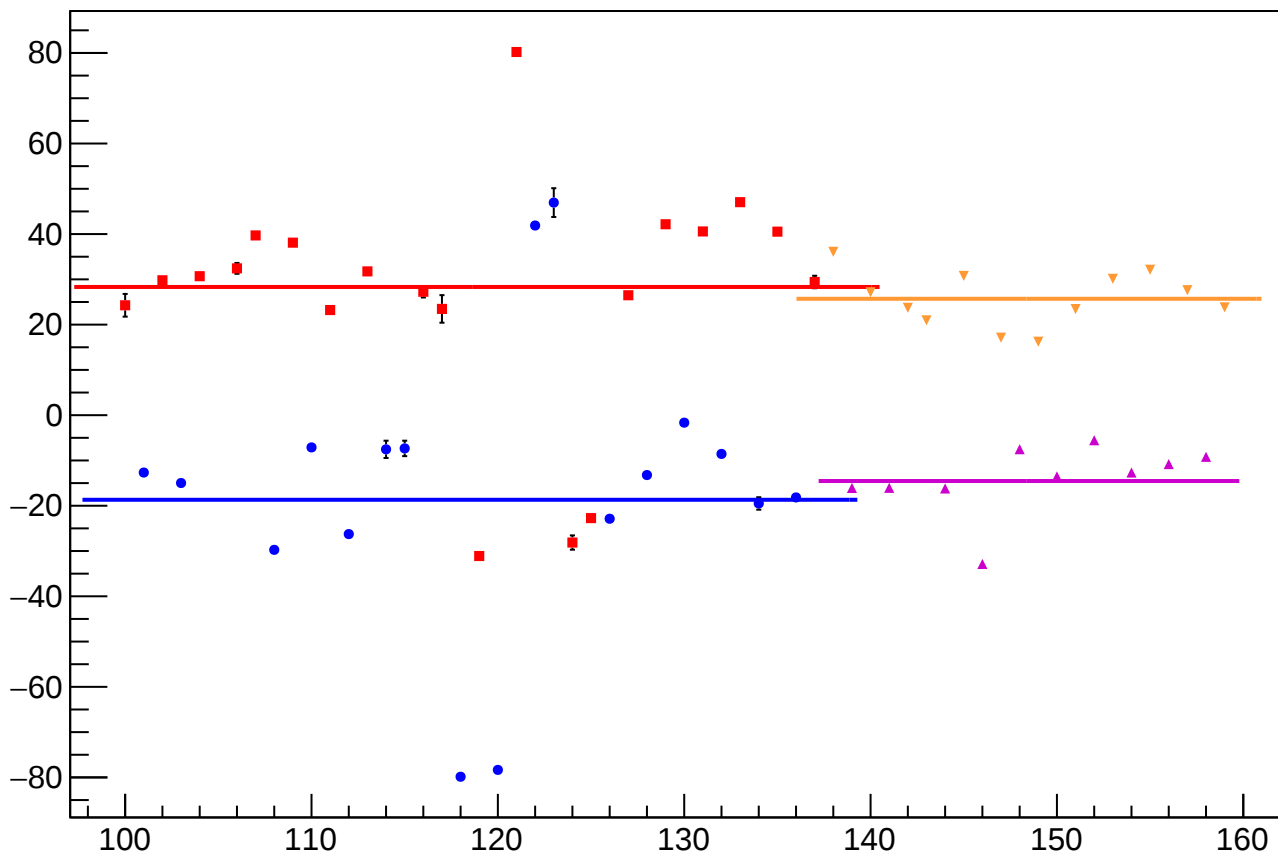
Right Out: 939.152 ± 0.248 χ^2/NDF : 90253.6/19

Left In: 960.103 ± 0.239 χ^2/NDF : 67170.3/9

938.645 ± 0.168 χ^2/NDF : 175424.4/28

950.052 ± 0.172 χ^2/NDF : 161125.6/29

diff_bpm1i02Y_mean vs Slug



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 25.708 ± 0.236 $\chi^2/\text{NDF}: 643.7/11$

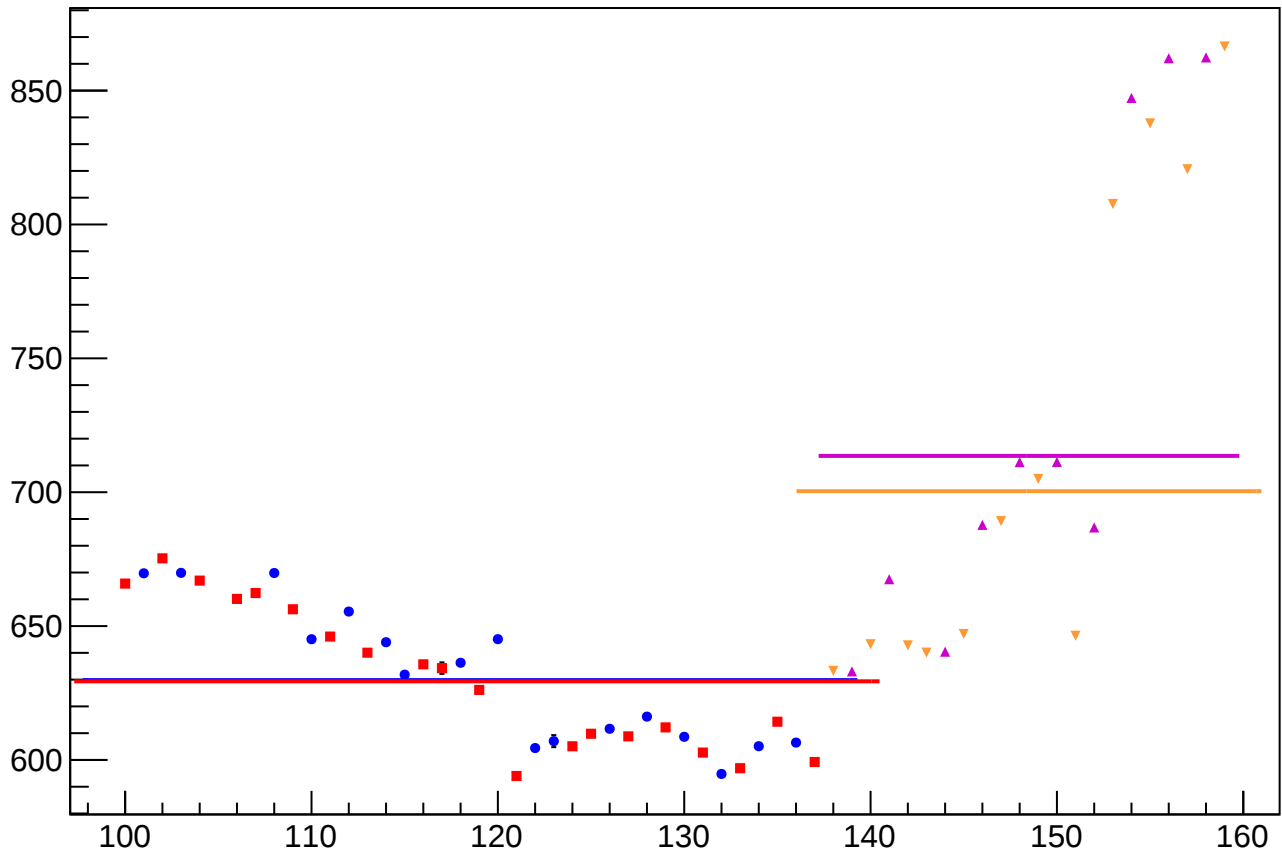
Right Out: 28.318 ± 0.235 $\chi^2/\text{NDF}: 12510.6/19$

Left In: -14.540 ± 0.252 $\chi^2/\text{NDF}: 863.7/9$

4.176 ± 0.169 $\chi^2/\text{NDF}: 30883.1/28$

8.397 ± 0.172 $\chi^2/\text{NDF}: 28866.2/29$

diff_bpm1i02Y_rms vs Slug



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 700.388+/-0.167 χ^2/NDF : 233954.5/11

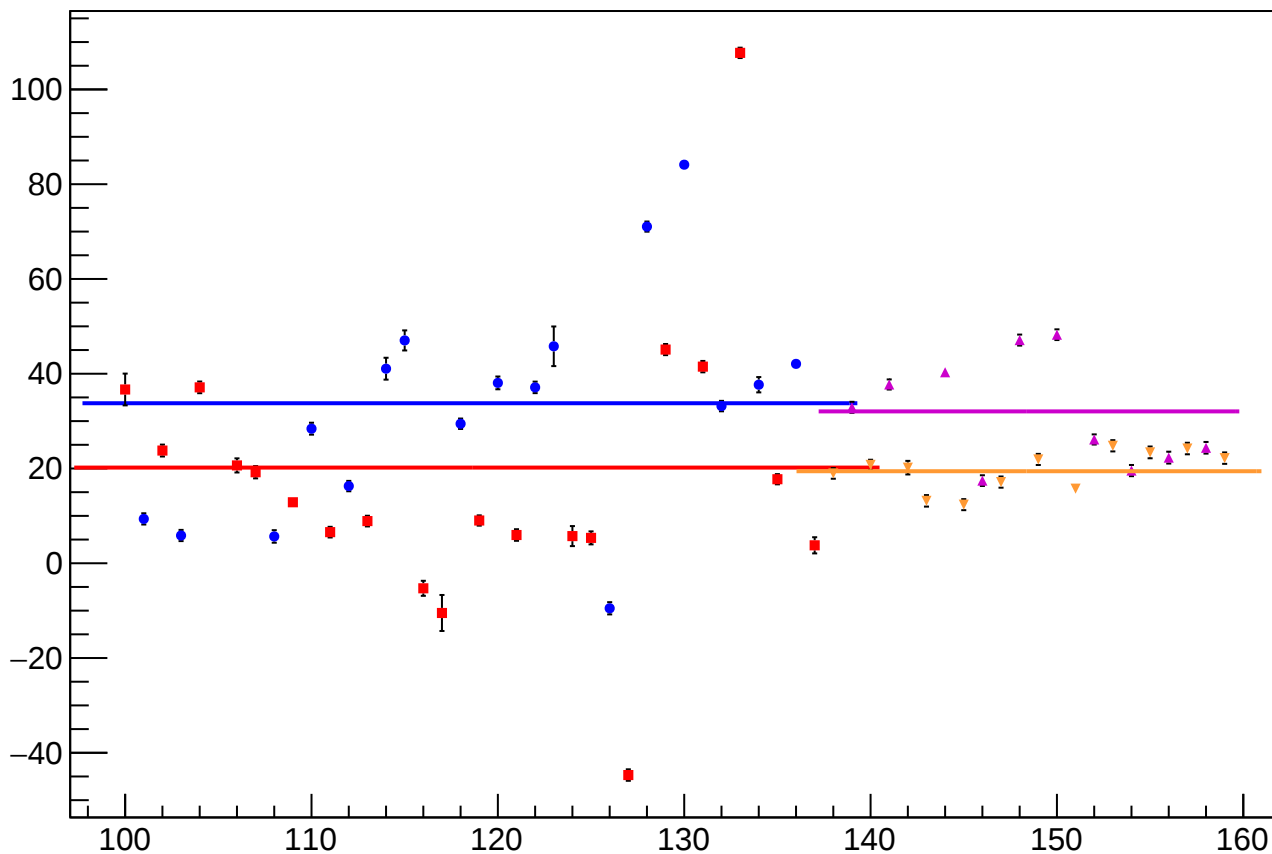
Right Out: 629.370+/-0.166 χ^2/NDF : 25543.7/19

Left In: 713.565+/-0.178 χ^2/NDF : 193827.1/9

666.156+/-0.120 χ^2/NDF : 344364.9/28

668.504+/-0.121 χ^2/NDF : 338948.0/29

diff_bpm1i04X_mean vs Slug



Right In: 33.773 ± 0.300 χ^2/NDF : 6487.9/16

Left Out: 19.424 ± 0.341 χ^2/NDF : 137.0/11

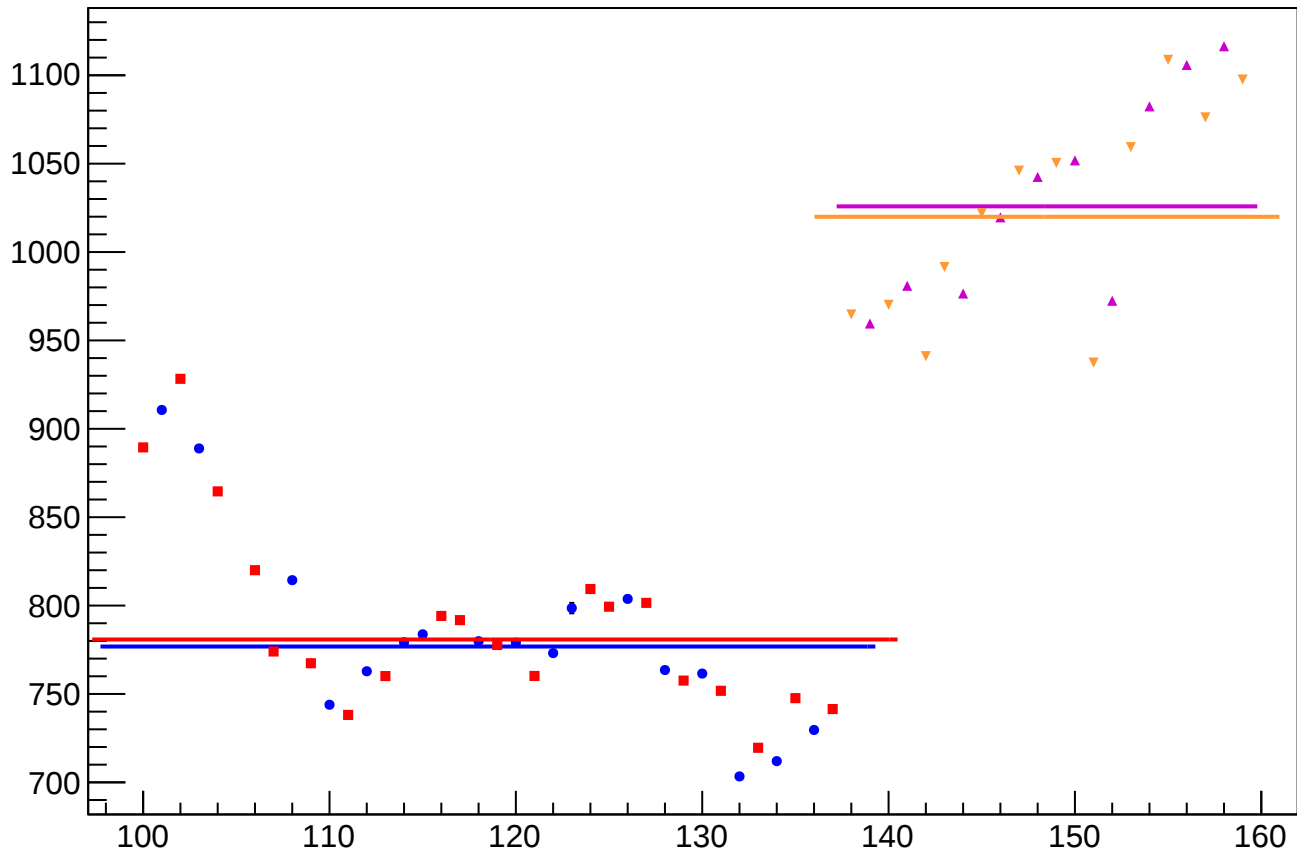
Right Out: 20.193 ± 0.292 χ^2/NDF : 11353.3/19

Left In: 32.050 ± 0.360 χ^2/NDF : 872.4/9

27.514 ± 0.225 χ^2/NDF : 7623.5/28

24.889 ± 0.227 χ^2/NDF : 12880.3/29

diff_bpm1i04X_rms vs Slug



Right In: 776.838 ± 0.212 χ^2/NDF : 67487.1/16

Left Out: 1019.945 ± 0.241 χ^2/NDF : 55809.5/11

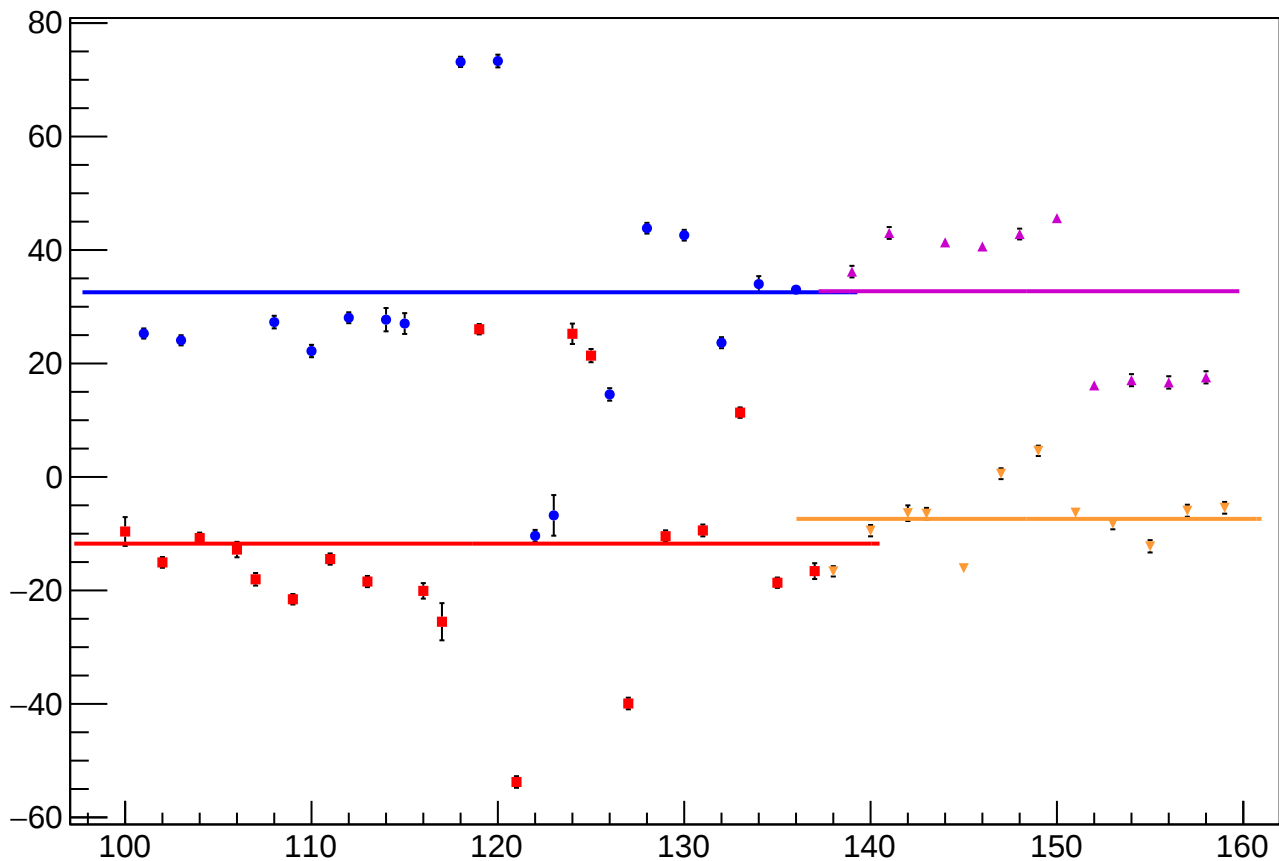
Right Out: 780.820 ± 0.206 χ^2/NDF : 57445.6/19

Left In: 1025.834 ± 0.255 χ^2/NDF : 44491.0/9

882.886 ± 0.159 χ^2/NDF : 696611.3/28

877.859 ± 0.160 χ^2/NDF : 660944.6/29

diff_bpm1i04Y_mean vs Slug



Right In: 32.552 $\pm$ 0.253 χ^2 /NDF: 6073.0/16

Left Out: -7.386 $\pm$ 0.284 χ^2 /NDF: 475.5/11

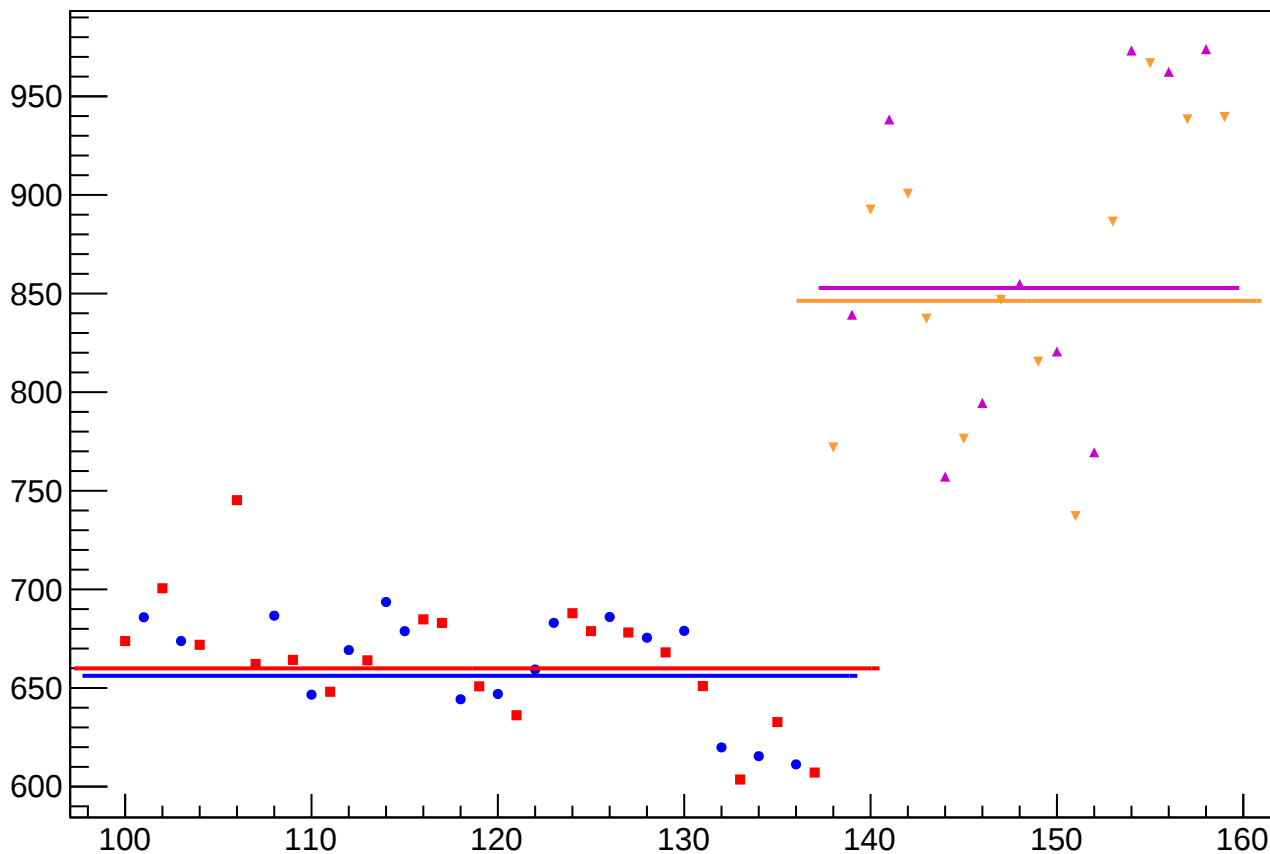
Right Out: -11.752 $\pm$ 0.246 χ^2 /NDF: 6375.4/19

Left In: 32.738 $\pm$ 0.302 χ^2 /NDF: 1634.8/9

14.895 $\pm$ 0.189 χ^2 /NDF: 17577.4/28

6.047 $\pm$ 0.191 χ^2 /NDF: 21064.4/29

diff_bpm1i04Y_rms vs Slug



Right In: 656.181+/-0.179 χ^2/NDF : 23569.6/16

Left Out: 846.300+/-0.201 χ^2/NDF : 129796.8/11

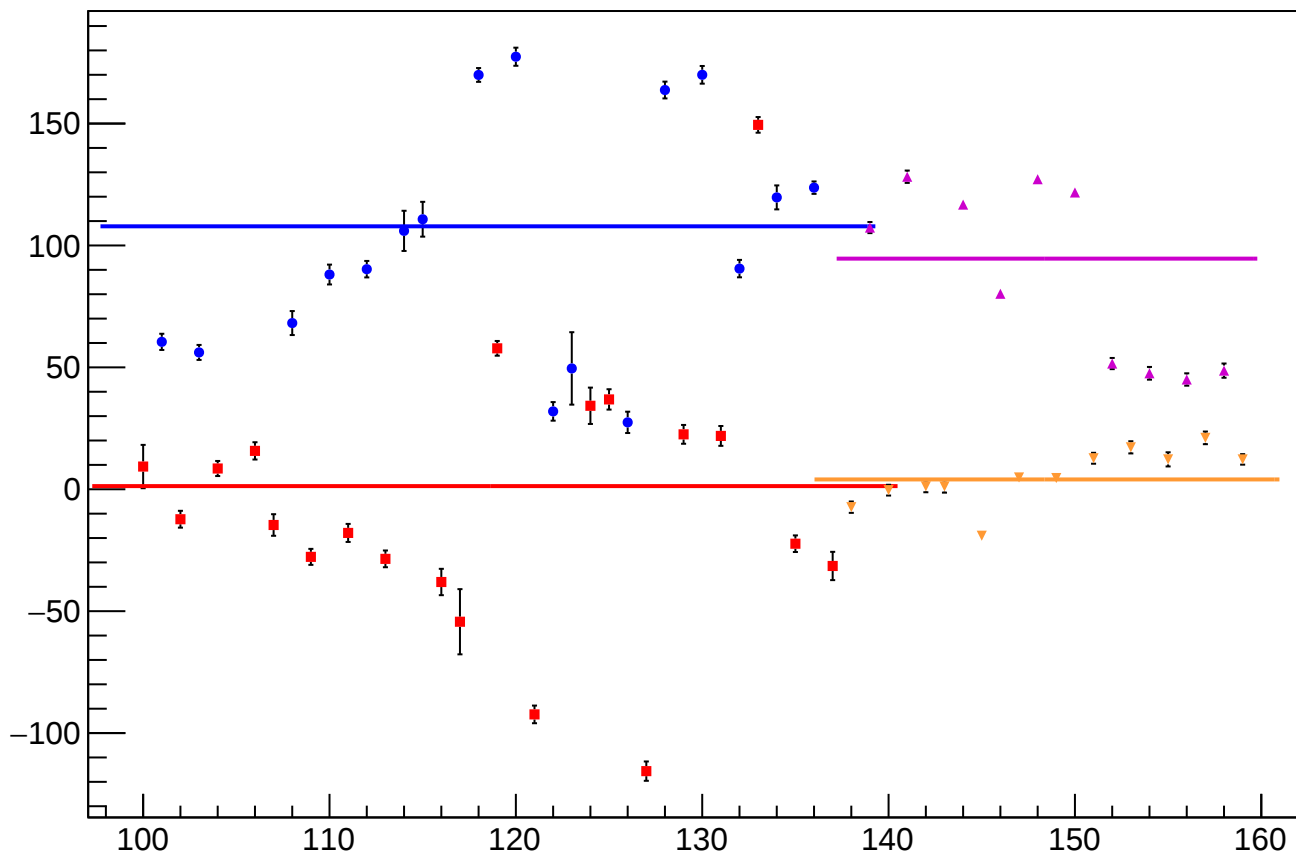
Right Out: 659.944+/-0.174 χ^2/NDF : 28425.0/19

Left In: 852.822+/-0.213 χ^2/NDF : 142240.2/9

740.232+/-0.134 χ^2/NDF : 653207.6/28

737.107+/-0.135 χ^2/NDF : 661371.3/29

diff_bpm1i06X_mean vs Slug



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 4.032 ± 0.639 $\chi^2/\text{NDF}: 269.3/11$

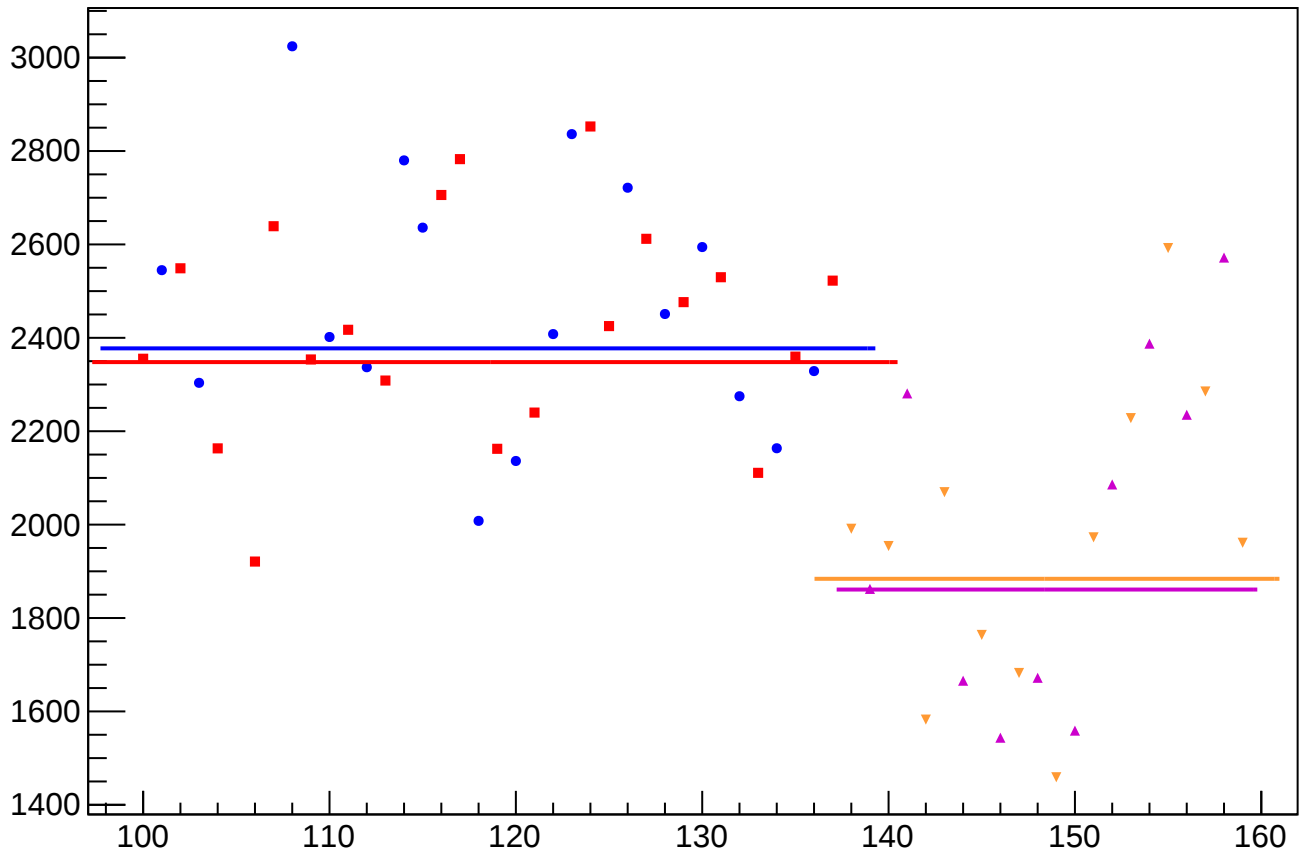
Right Out: 1.299 ± 0.881 $\chi^2/\text{NDF}: 4541.1/19$

Left In: 94.599 ± 0.669 $\chi^2/\text{NDF}: 2288.6/9$

37.730 ± 0.525 $\chi^2/\text{NDF}: 11650.8/28$

60.508 ± 0.533 $\chi^2/\text{NDF}: 13940.7/29$

diff_bpm1i06X_rms vs Slug



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 1883.961+/-0.452 χ^2/NDF : 422920.8/11

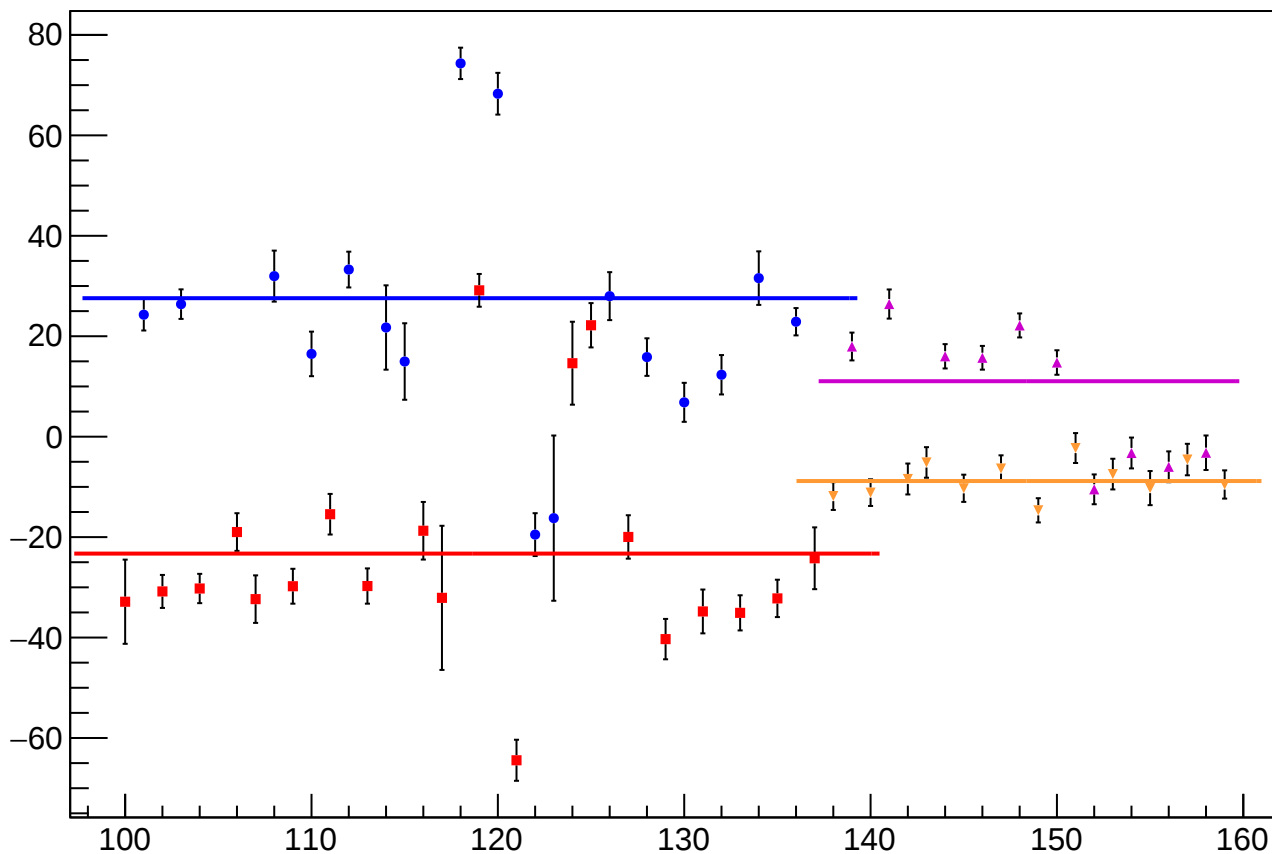
Right Out: 2348.017+/-0.623 χ^2/NDF : 110379.6/19

Left In: 1860.967+/-0.473 χ^2/NDF : 494298.9/9

2044.129+/-0.371 χ^2/NDF : 929904.1/28

2038.931+/-0.377 χ^2/NDF : 992247.2/29

diff_bpm1i06Y_mean vs Slug



Right In: 27.577+/-0.975 χ^2/NDF : 519.6/16

Left Out: -8.833+/-0.824 χ^2/NDF : 17.6/11

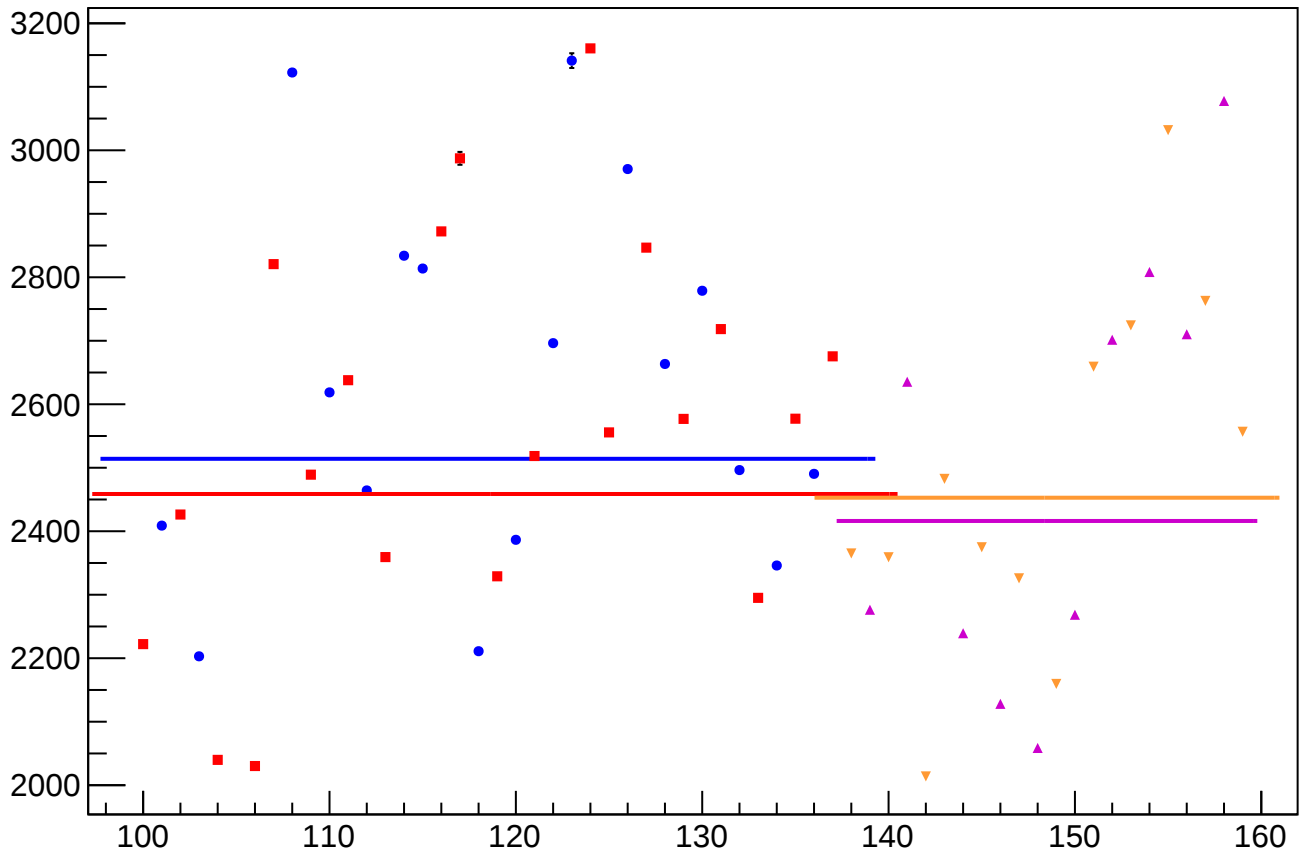
Right Out: -23.280+/-0.925 χ^2/NDF : 558.2/19

Left In: 11.046+/-0.860 χ^2/NDF : 188.5/9

6.341+/-0.629 χ^2/NDF : 1350.9/28

-4.871+/-0.630 χ^2/NDF : 1485.2/29

diff_bpm1i06Y_rms vs Slug



Right In: 2514.088 ± 0.689 χ^2/NDF : 120961.3/16

Left Out: 2452.799 ± 0.583 χ^2/NDF : 186975.7/11

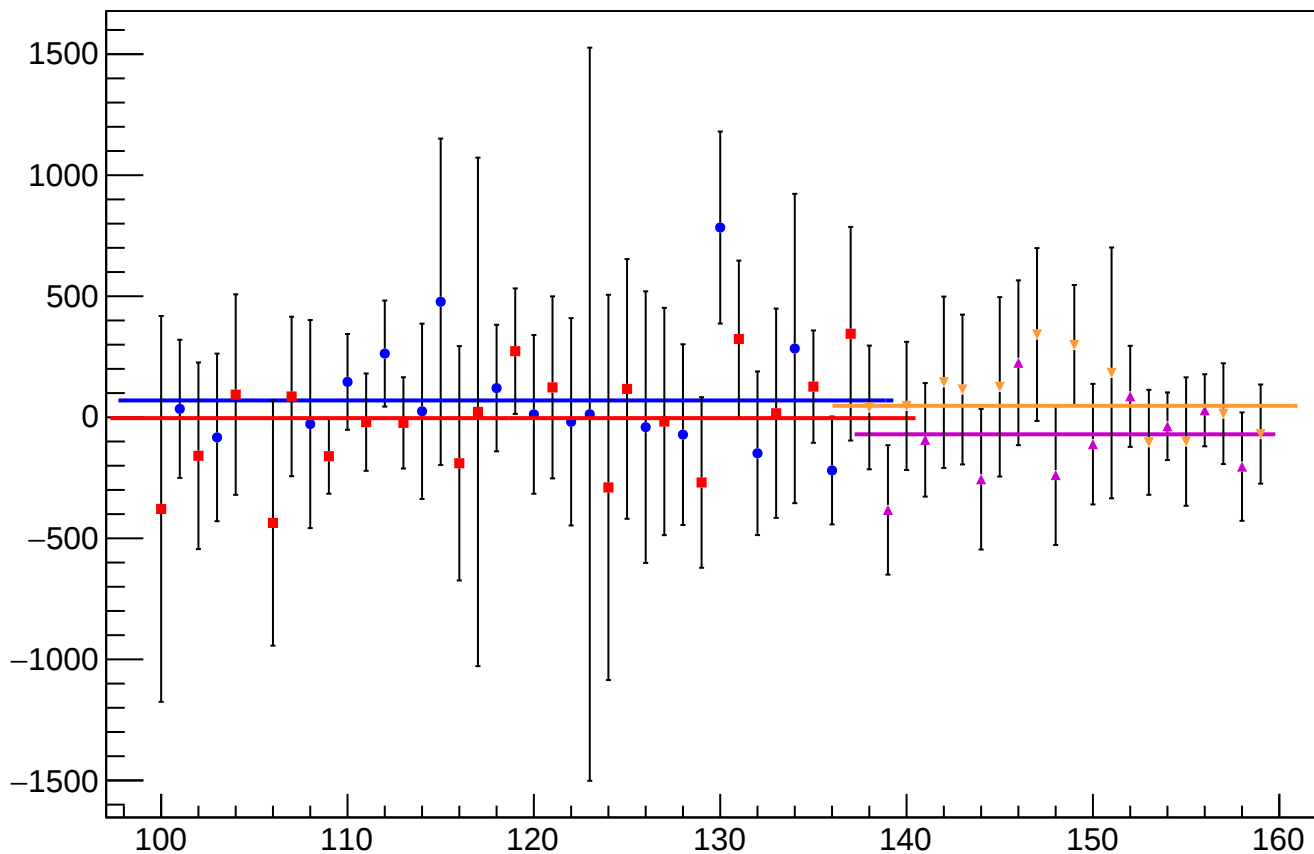
Right Out: 2458.665 ± 0.654 χ^2/NDF : 152458.1/19

Left In: 2416.171 ± 0.608 χ^2/NDF : 252500.7/9

2478.341 ± 0.445 χ^2/NDF : 312548.5/28

2435.875 ± 0.445 χ^2/NDF : 407222.1/29

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 69.587+/-79.023 χ^2/NDF : 7.3/16

Left Out: 47.457+/-77.729 χ^2/NDF : 3.1/11

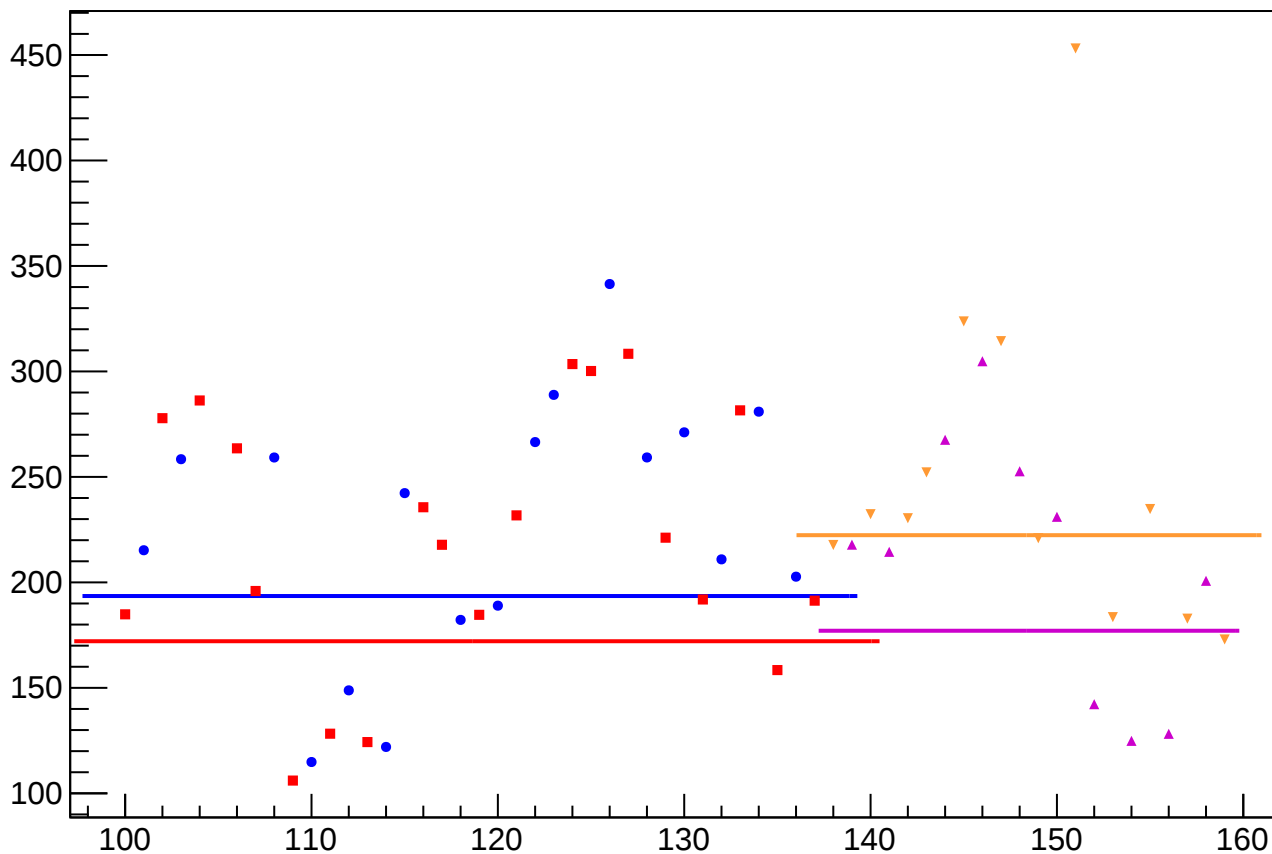
Right Out: -3.448+/-69.825 χ^2/NDF : 6.4/19

Left In: -70.244+/-67.405 χ^2/NDF : 4.3/9

58.339+/-55.415 χ^2/NDF : 10.4/28

-38.023+/-48.496 χ^2/NDF : 11.2/29

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 193.533+/-0.056 χ^2/NDF : 1010428.2/16

Left Out: 222.376+/-0.055 χ^2/NDF : 959506.2/11

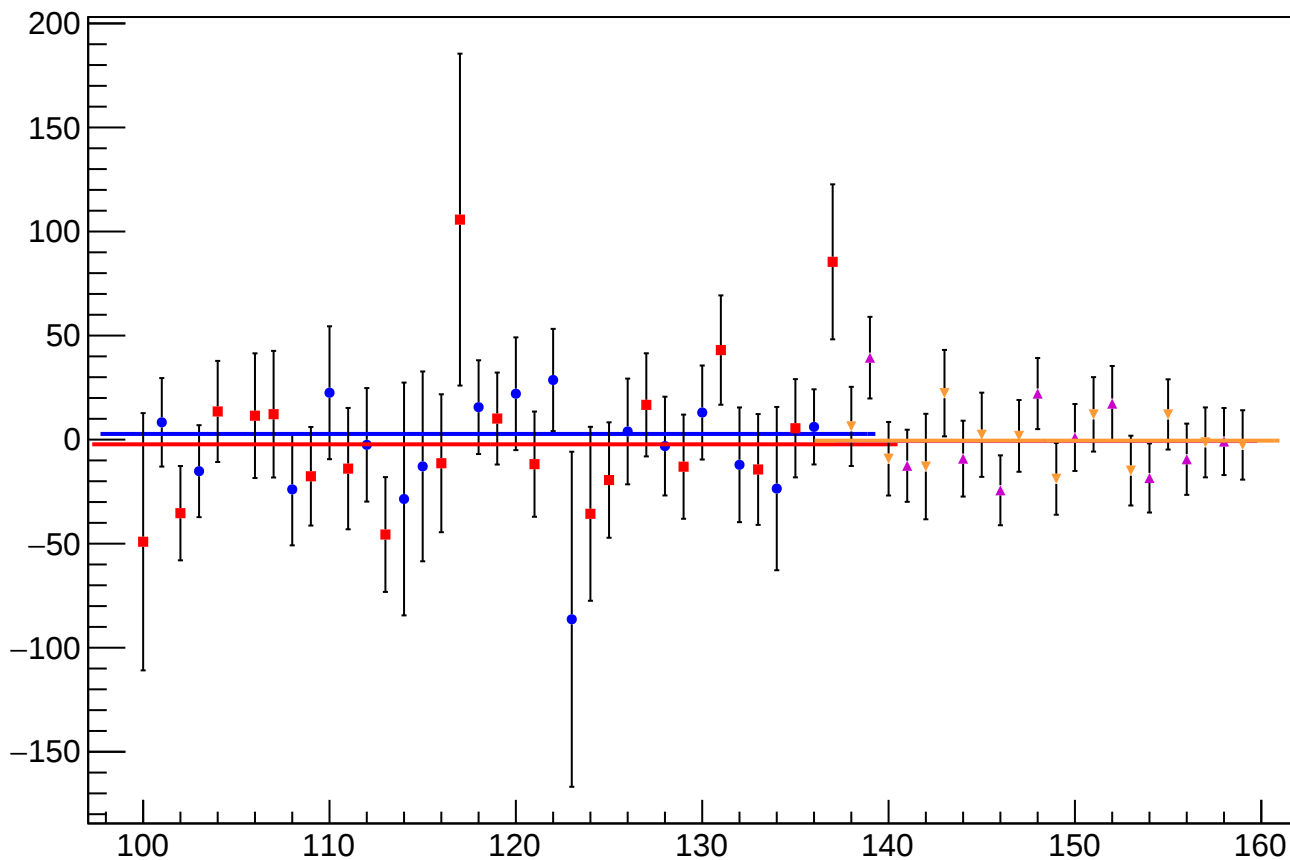
208.193+/-0.039 χ^2/NDF : 2105358.7/28

Right Out: 172.104+/-0.049 χ^2/NDF : 1580690.9/19

174.676+/-0.034 χ^2/NDF : 2963407.2/29

Left In: 177.073+/-0.048 χ^2/NDF : 1377472.4/9

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.733 ± 6.424 χ^2/NDF : 6.8/16

Left Out: -0.499 ± 5.246 χ^2/NDF : 4.8/11

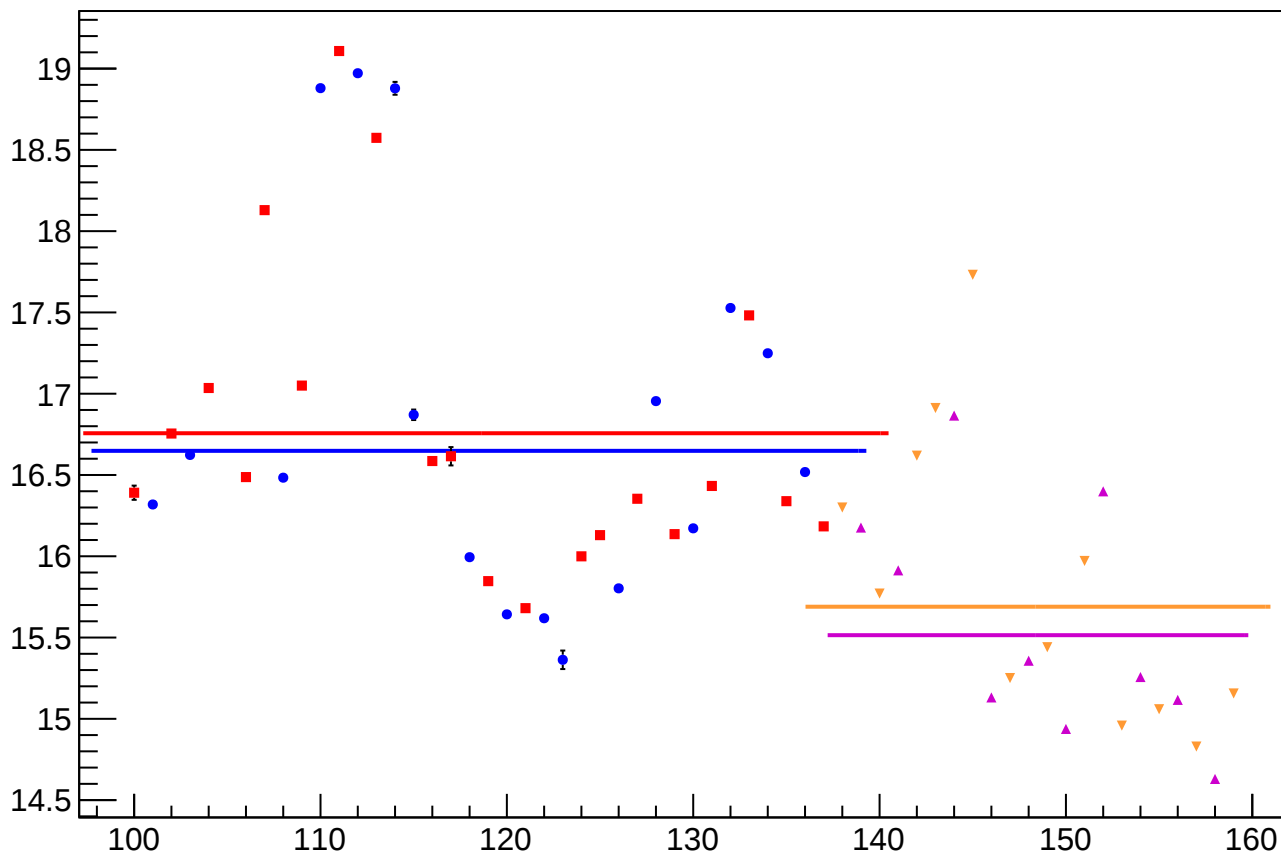
Right Out: -2.259 ± 6.259 χ^2/NDF : 19.6/19

Left In: -0.688 ± 5.445 χ^2/NDF : 11.0/9

0.794 ± 4.063 χ^2/NDF : 11.7/28

-1.364 ± 4.108 χ^2/NDF : 30.7/29

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 16.649 ± 0.005 χ^2/NDF : 42566.9/16

Left Out: 15.690 ± 0.004 χ^2/NDF : 48186.3/11

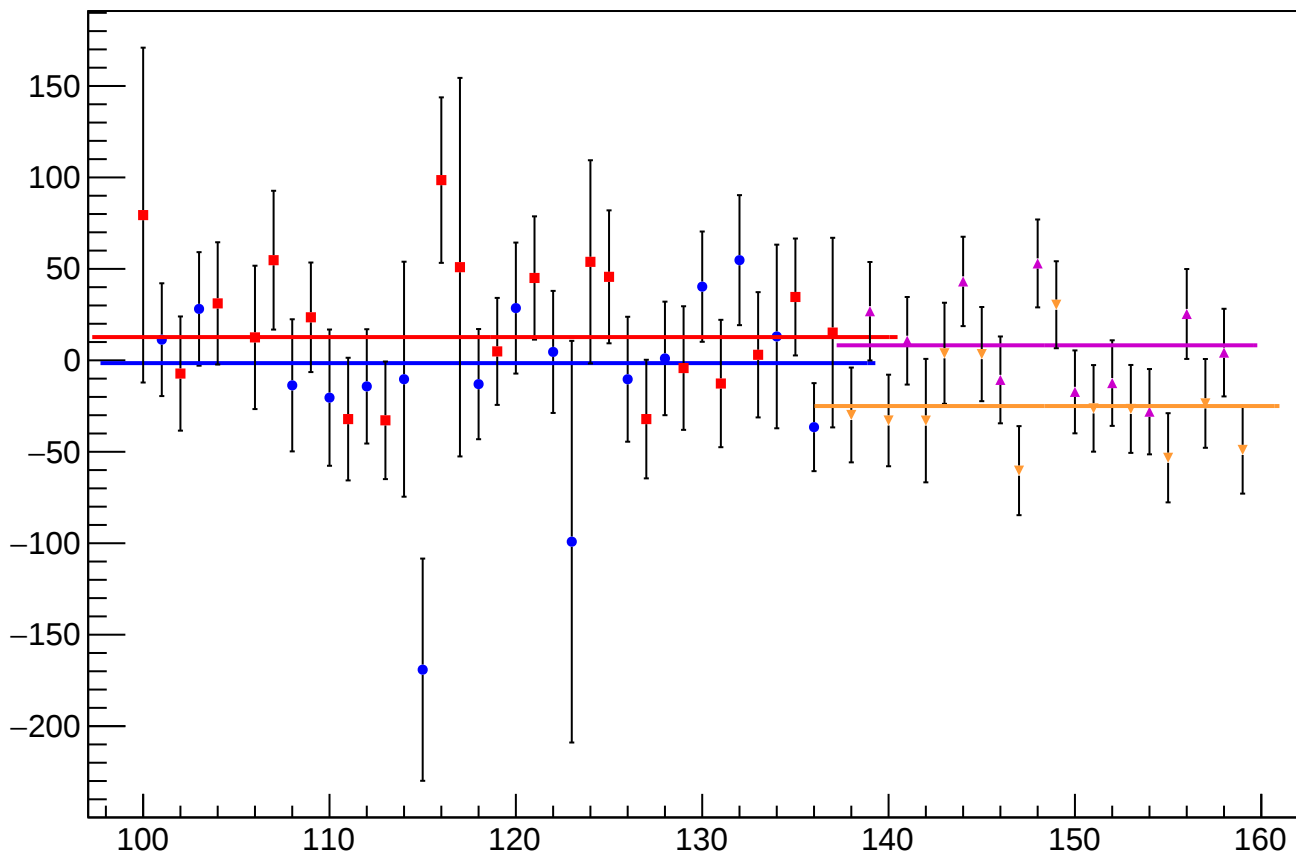
Right Out: 16.757 ± 0.004 χ^2/NDF : 39957.1/19

Left In: 15.515 ± 0.004 χ^2/NDF : 30471.4/9

16.073 ± 0.003 χ^2/NDF : 117483.9/28

16.050 ± 0.003 χ^2/NDF : 115270.1/29

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: -1.523 ± 8.485 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -24.987 ± 7.277 $\chi^2/\text{NDF}: 12.4/11$

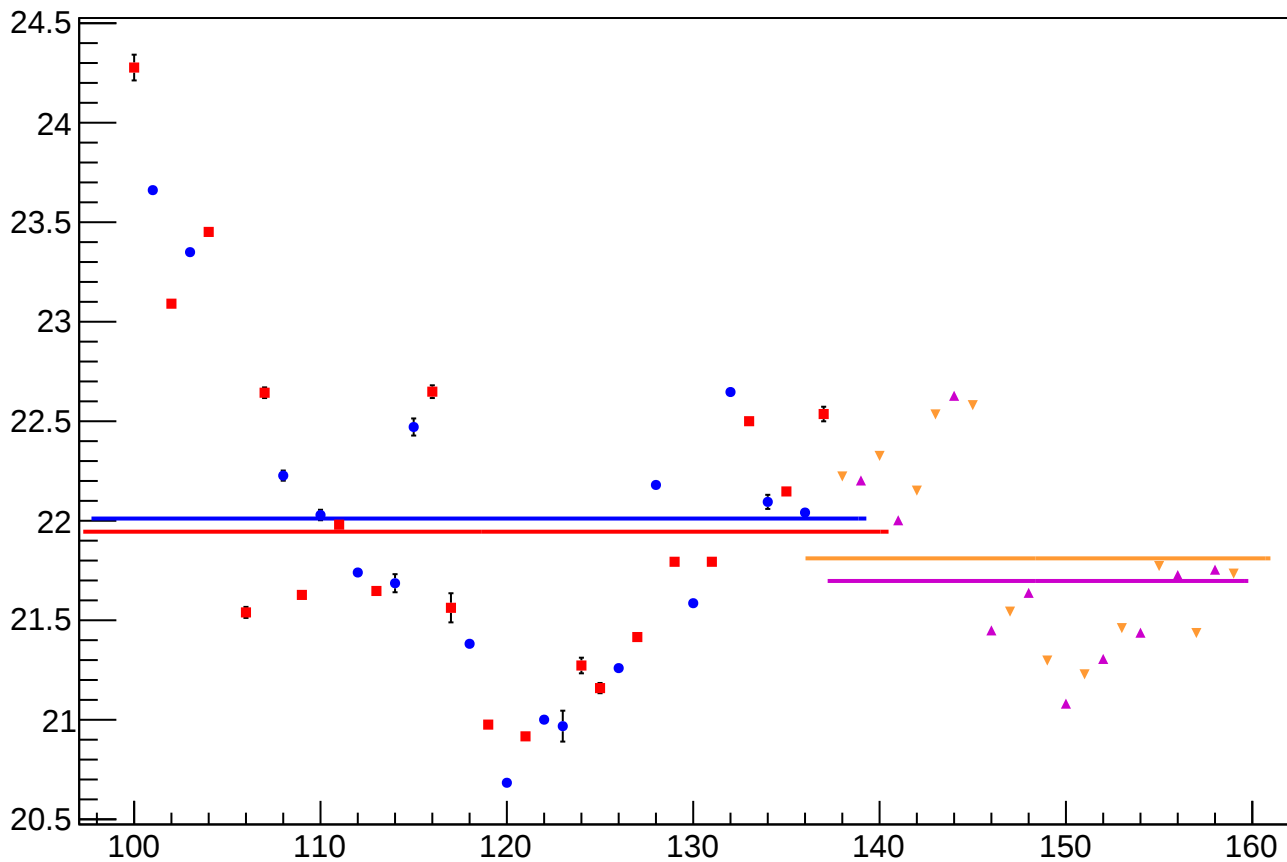
Right Out: 12.716 ± 8.185 $\chi^2/\text{NDF}: 15.7/19$

Left In: 8.216 ± 7.600 $\chi^2/\text{NDF}: 11.6/9$

-15.043 ± 5.524 $\chi^2/\text{NDF}: 34.4/28$

10.300 ± 5.569 $\chi^2/\text{NDF}: 27.5/29$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 22.011 $\pm$ 0.006 χ^2/NDF : 17546.9/16

Left Out: 21.811 $\pm$ 0.005 χ^2/NDF : 8026.2/11

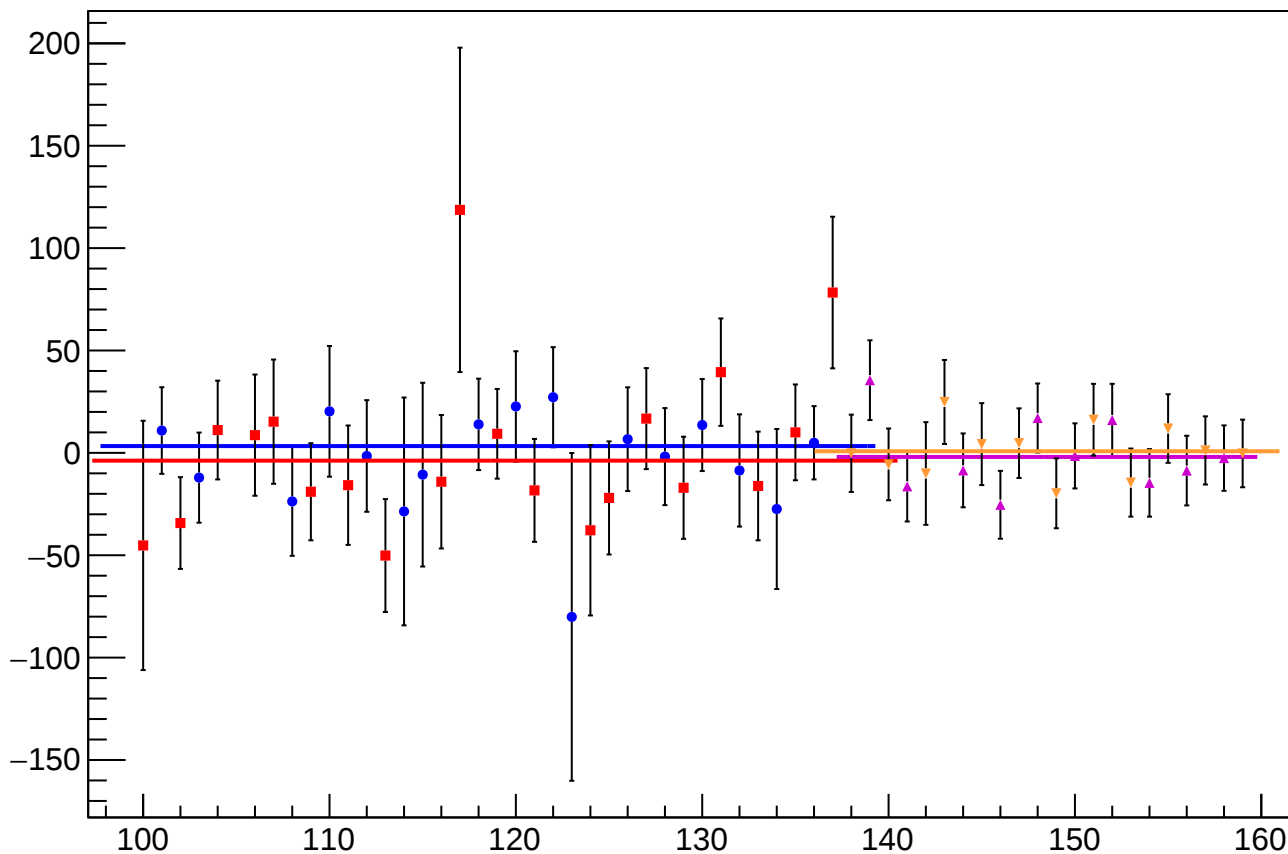
Right Out: 21.945 $\pm$ 0.006 χ^2/NDF : 16620.2/19

Left In: 21.698 $\pm$ 0.005 χ^2/NDF : 6461.5/9

21.896 $\pm$ 0.004 χ^2/NDF : 26214.1/28

21.812 $\pm$ 0.004 χ^2/NDF : 24064.2/29

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 3.317 ± 6.388 χ^2/NDF : 6.3/16

Left Out: 0.784 ± 5.190 χ^2/NDF : 5.3/11

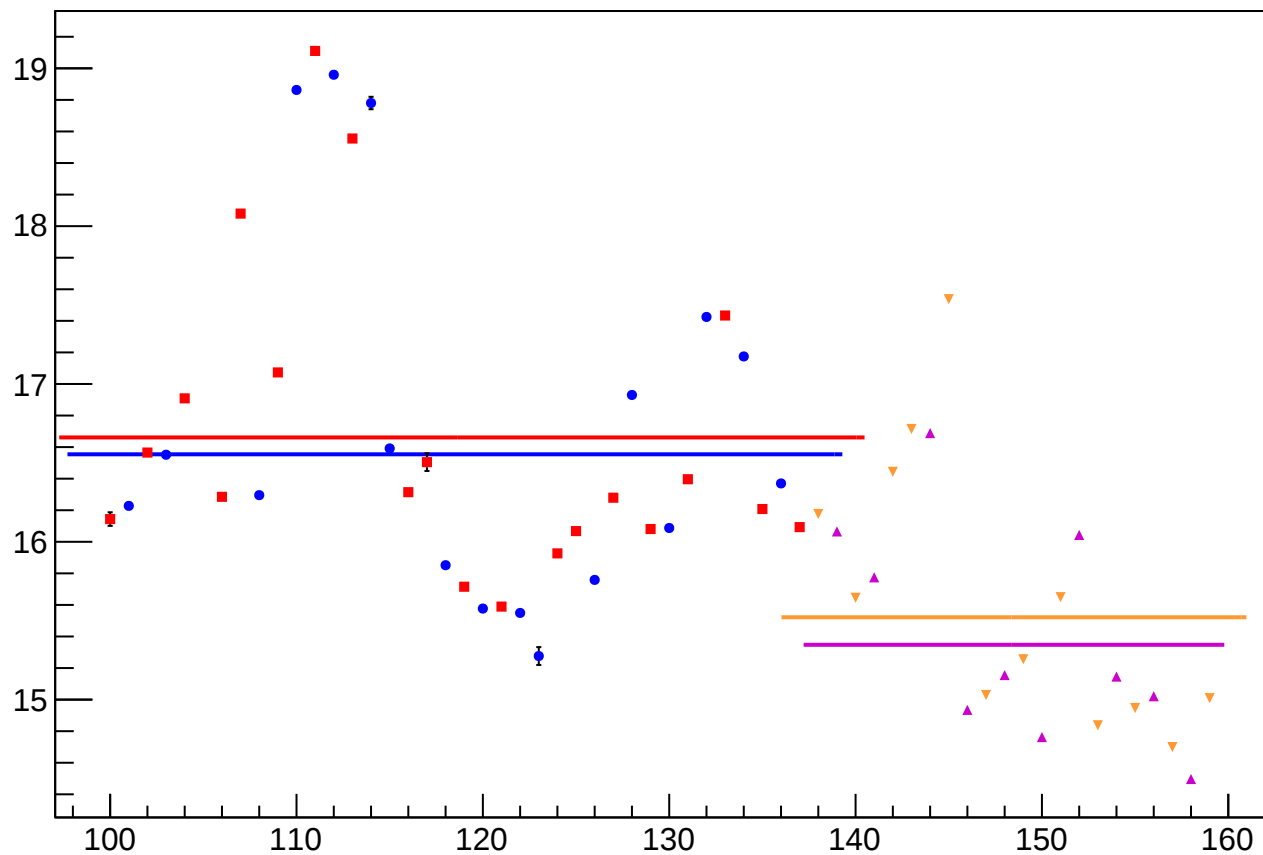
Right Out: -3.800 ± 6.224 χ^2/NDF : 20.1/19

Left In: -1.998 ± 5.386 χ^2/NDF : 9.6/9

1.791 ± 4.028 χ^2/NDF : 11.7/28

-2.770 ± 4.073 χ^2/NDF : 29.8/29

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 16.554 ± 0.005 χ^2/NDF : 44475.2/16

Left Out: 15.522 ± 0.004 χ^2/NDF : 47073.9/11

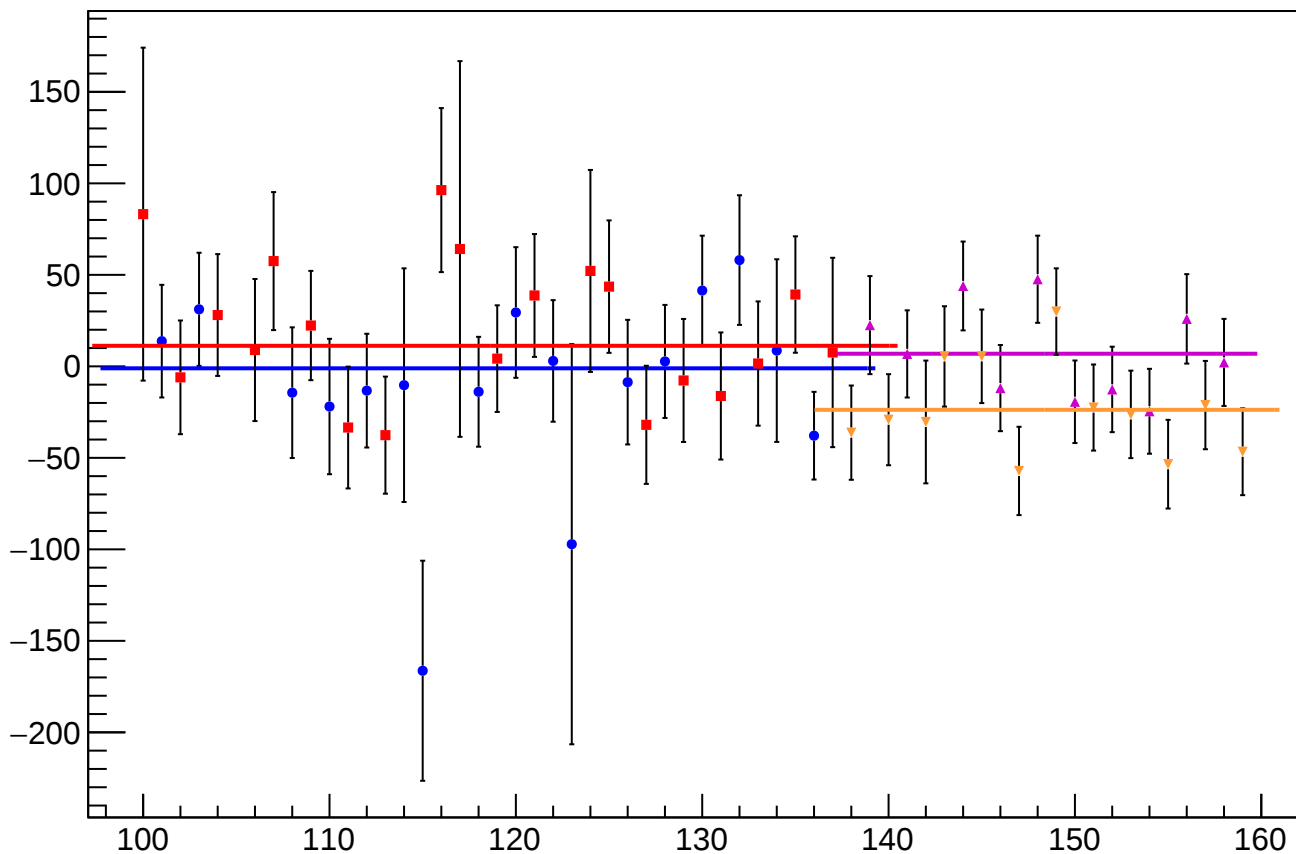
Right Out: 16.661 ± 0.004 χ^2/NDF : 43071.4/19

Left In: 15.347 ± 0.004 χ^2/NDF : 29025.7/9

15.932 ± 0.003 χ^2/NDF : 123027.6/28

15.910 ± 0.003 χ^2/NDF : 123059.3/29

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: -1.068 ± 8.444 χ^2/NDF : 18.5/16

Left Out: -23.755 ± 7.229 χ^2/NDF : 12.3/11

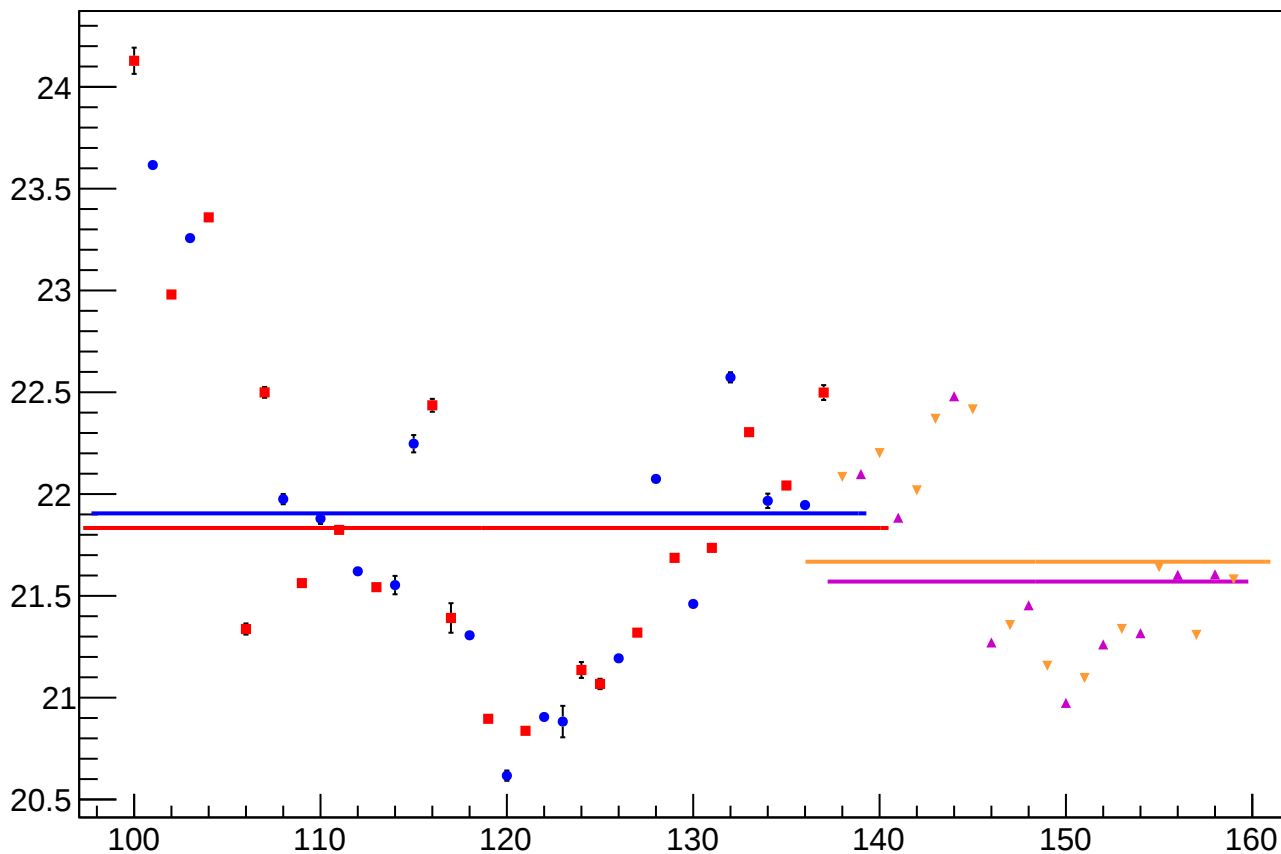
Right Out: 11.235 ± 8.143 χ^2/NDF : 16.5/19

Left In: 6.897 ± 7.555 χ^2/NDF : 10.8/9

-14.160 ± 5.492 χ^2/NDF : 34.9/28

8.904 ± 5.538 χ^2/NDF : 27.4/29

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.905 ± 0.006 χ^2/NDF : 17794.2/16

Left Out: 21.668 ± 0.005 χ^2/NDF : 7986.8/11

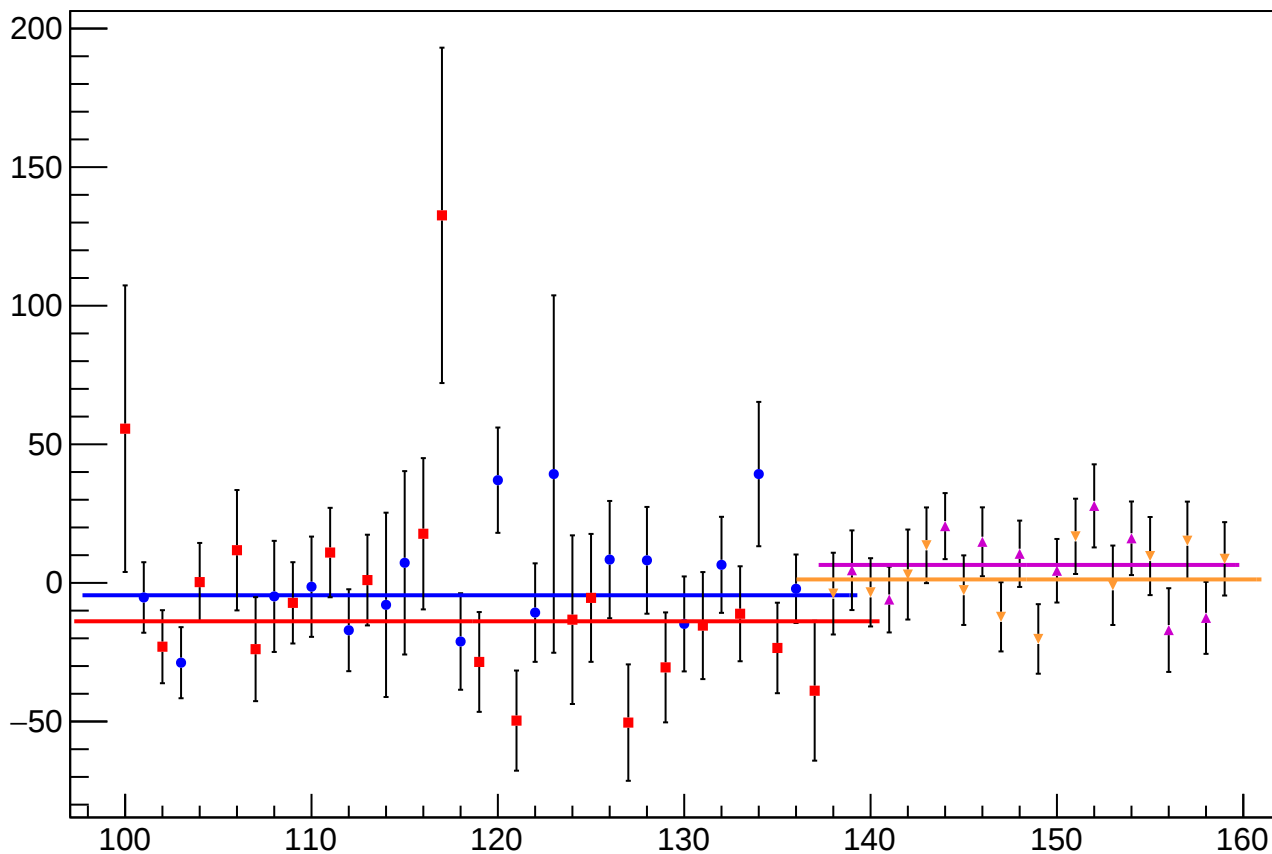
Right Out: 21.833 ± 0.006 χ^2/NDF : 16288.5/19

Left In: 21.570 ± 0.005 χ^2/NDF : 6300.3/9

21.768 ± 0.004 χ^2/NDF : 26693.6/28

21.692 ± 0.004 χ^2/NDF : 23712.1/29

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 1.252 ± 3.907 $\chi^2/\text{NDF}: 8.3/11$

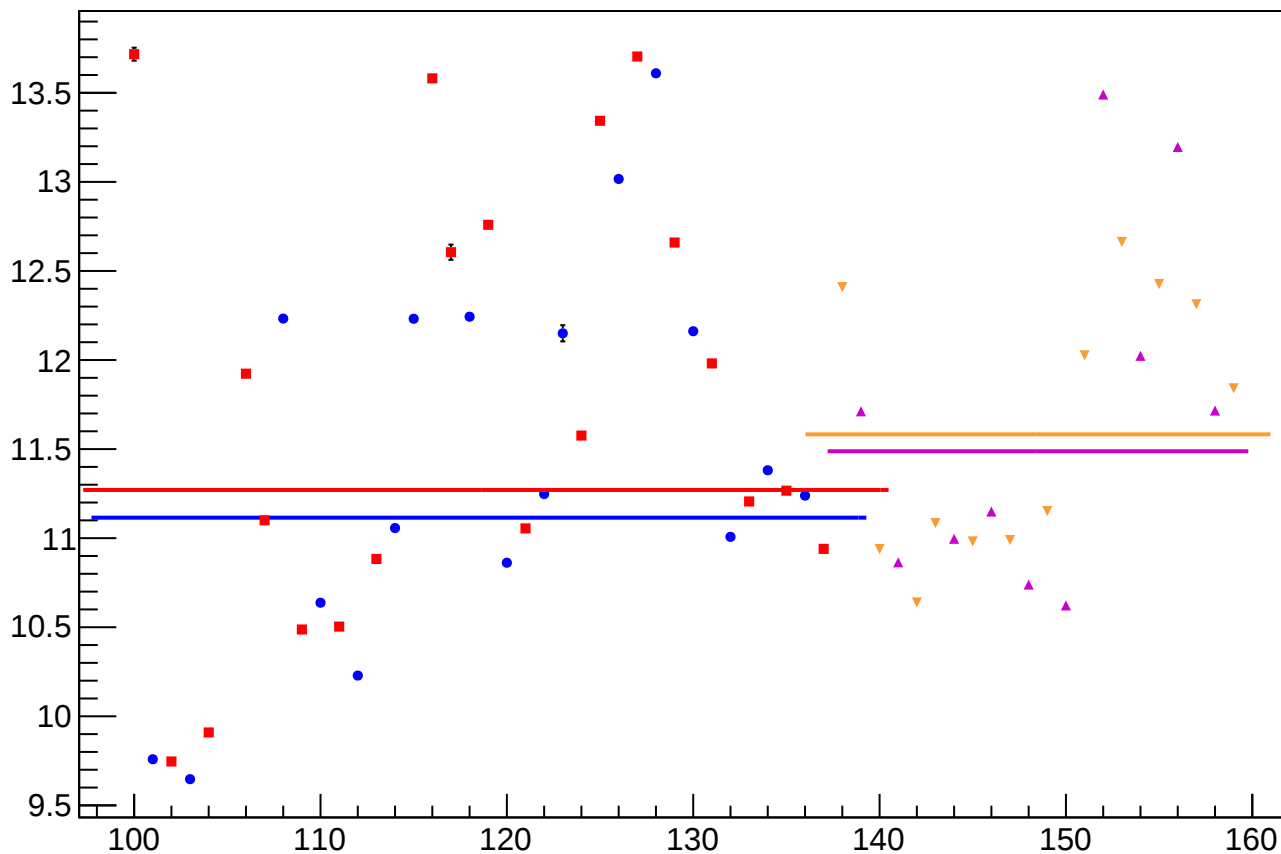
Right Out: -13.851 ± 4.253 $\chi^2/\text{NDF}: 25.4/19$

Left In: 6.482 ± 4.066 $\chi^2/\text{NDF}: 10.2/9$

-1.312 ± 2.900 $\chi^2/\text{NDF}: 24.4/28$

-3.228 ± 2.939 $\chi^2/\text{NDF}: 47.6/29$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 11.115 ± 0.003 $\chi^2/\text{NDF}: 133059.3/16$

Left Out: 11.583 ± 0.003 $\chi^2/\text{NDF}: 59421.6/11$

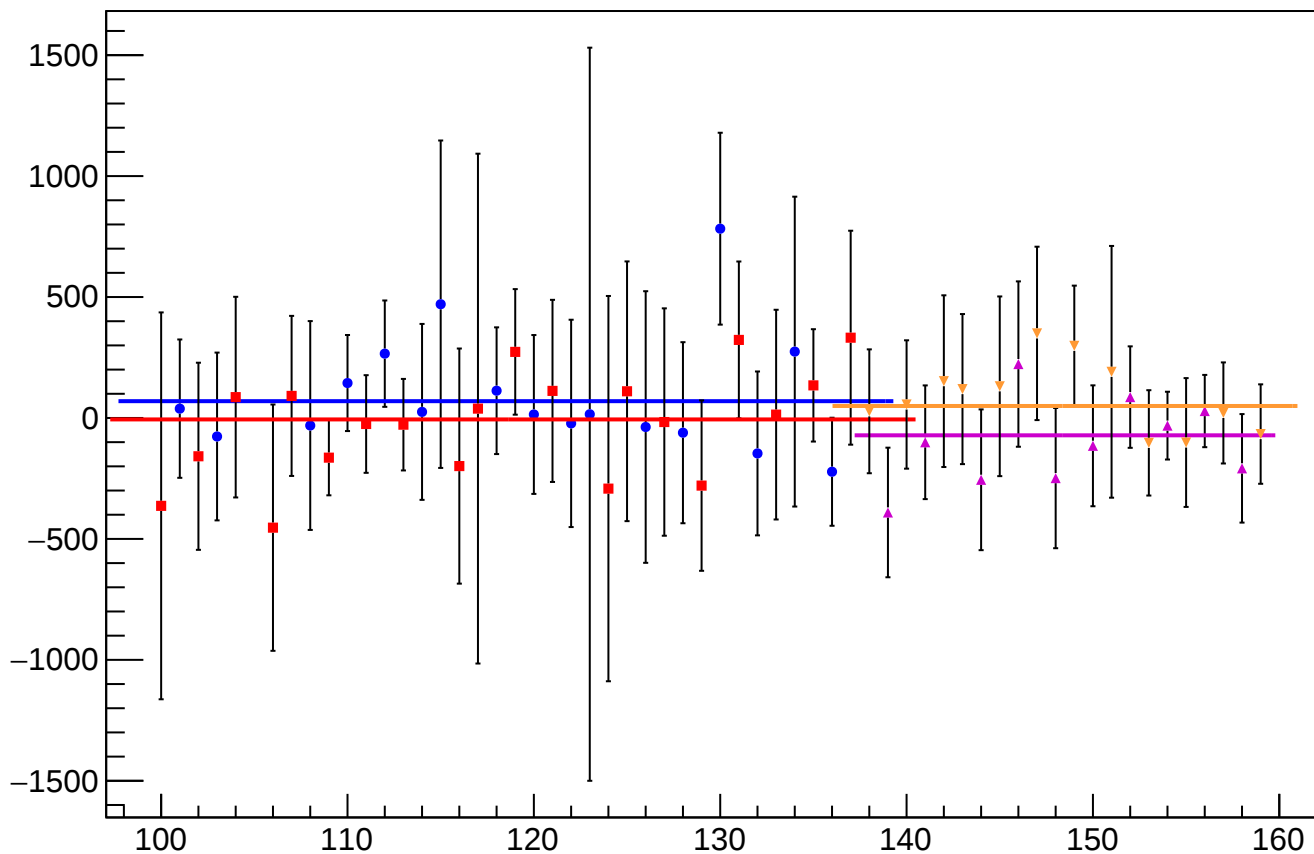
Right Out: 11.271 ± 0.003 $\chi^2/\text{NDF}: 148461.6/19$

Left In: 11.488 ± 0.003 $\chi^2/\text{NDF}: 95243.0/9$

11.373 ± 0.002 $\chi^2/\text{NDF}: 205354.9/28$

11.384 ± 0.002 $\chi^2/\text{NDF}: 246432.6/29$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 49.582+/-77.988 χ^2/NDF : 3.1/11

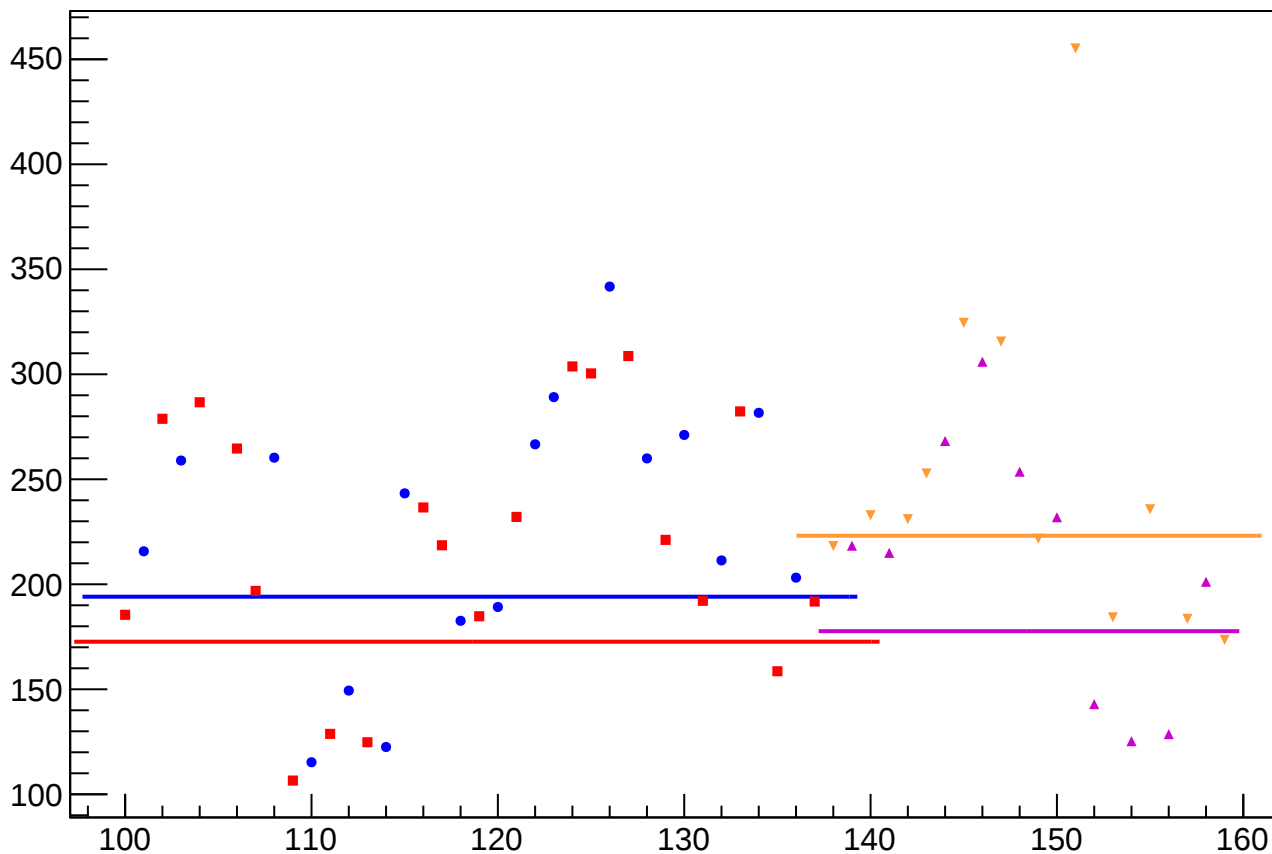
Right Out: -5.996+/-70.027 χ^2/NDF : 6.5/19

Left In: -71.700+/-67.628 χ^2/NDF : 4.4/9

59.369+/-55.580 χ^2/NDF : 10.4/28

-39.993+/-48.646 χ^2/NDF : 11.4/29

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug



Right In: 194.082 ± 0.056 χ^2/NDF : 1005395.7/16

Left Out: 223.120 ± 0.055 χ^2/NDF : 958776.5/11

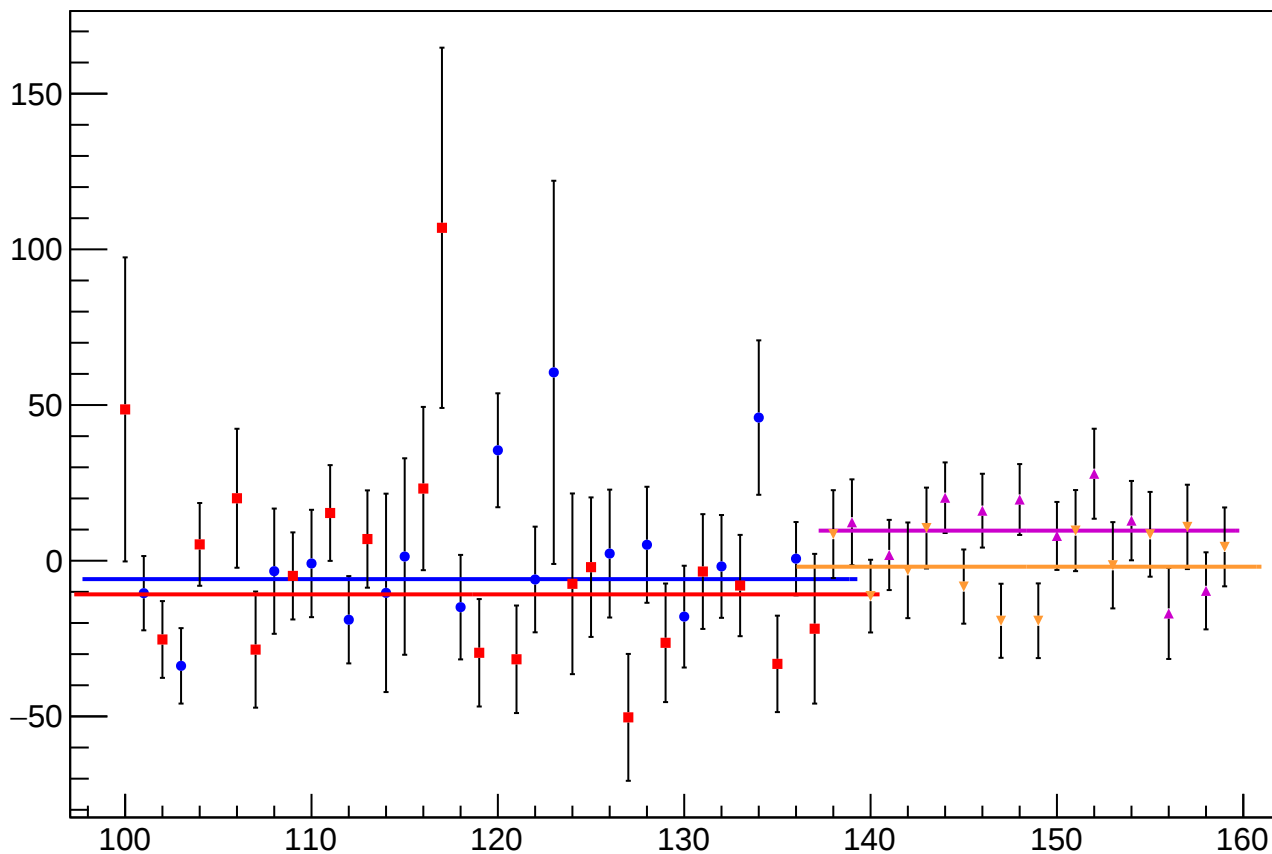
Right Out: 172.655 ± 0.050 χ^2/NDF : 1573277.0/19

Left In: 177.670 ± 0.048 χ^2/NDF : 1375213.7/9

208.830 ± 0.039 χ^2/NDF : 2100619.2/28

175.250 ± 0.034 χ^2/NDF : 2953797.0/29

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug



Right In: -5.912 $\pm$ 4.133 χ^2/NDF : 18.8/16

Left Out: -1.925 $\pm$ 3.733 χ^2/NDF : 9.2/11

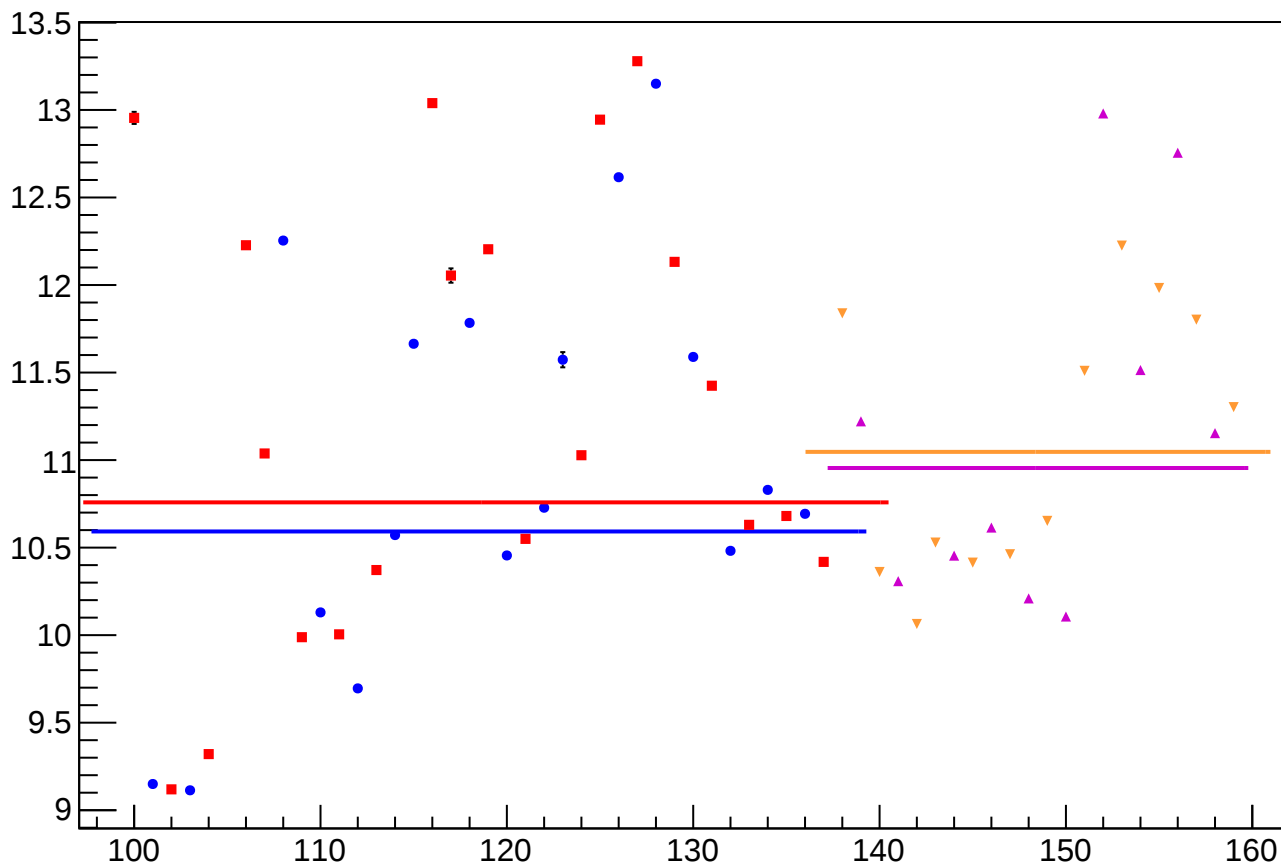
Right Out: -10.806 $\pm$ 4.068 χ^2/NDF : 27.0/19

Left In: 9.660 $\pm$ 3.884 χ^2/NDF : 9.9/9

-3.716 $\pm$ 2.770 χ^2/NDF : 28.5/28

-0.099 $\pm$ 2.809 χ^2/NDF : 50.2/29

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug



Right In: 10.592+/-0.003 χ^2/NDF : 160397.9/16

Left Out: 11.047+/-0.003 χ^2/NDF : 70684.8/11

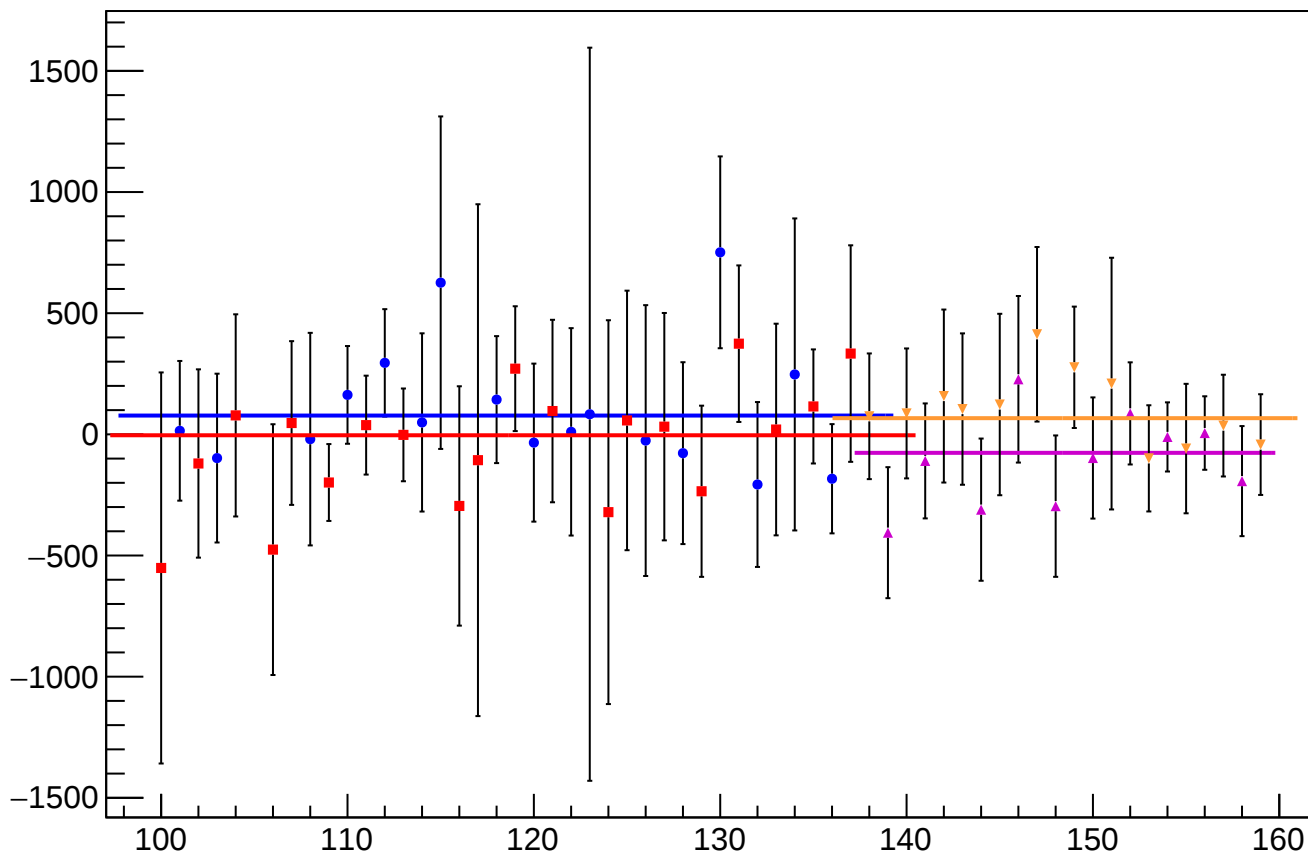
Right Out: 10.758+/-0.003 χ^2/NDF : 177903.3/19

Left In: 10.955+/-0.003 χ^2/NDF : 107482.6/9

10.843+/-0.002 χ^2/NDF : 244413.7/28

10.861+/-0.002 χ^2/NDF : 287821.8/29

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 66.805 $\pm$ 78.557 χ^2 /NDF: 2.9/11

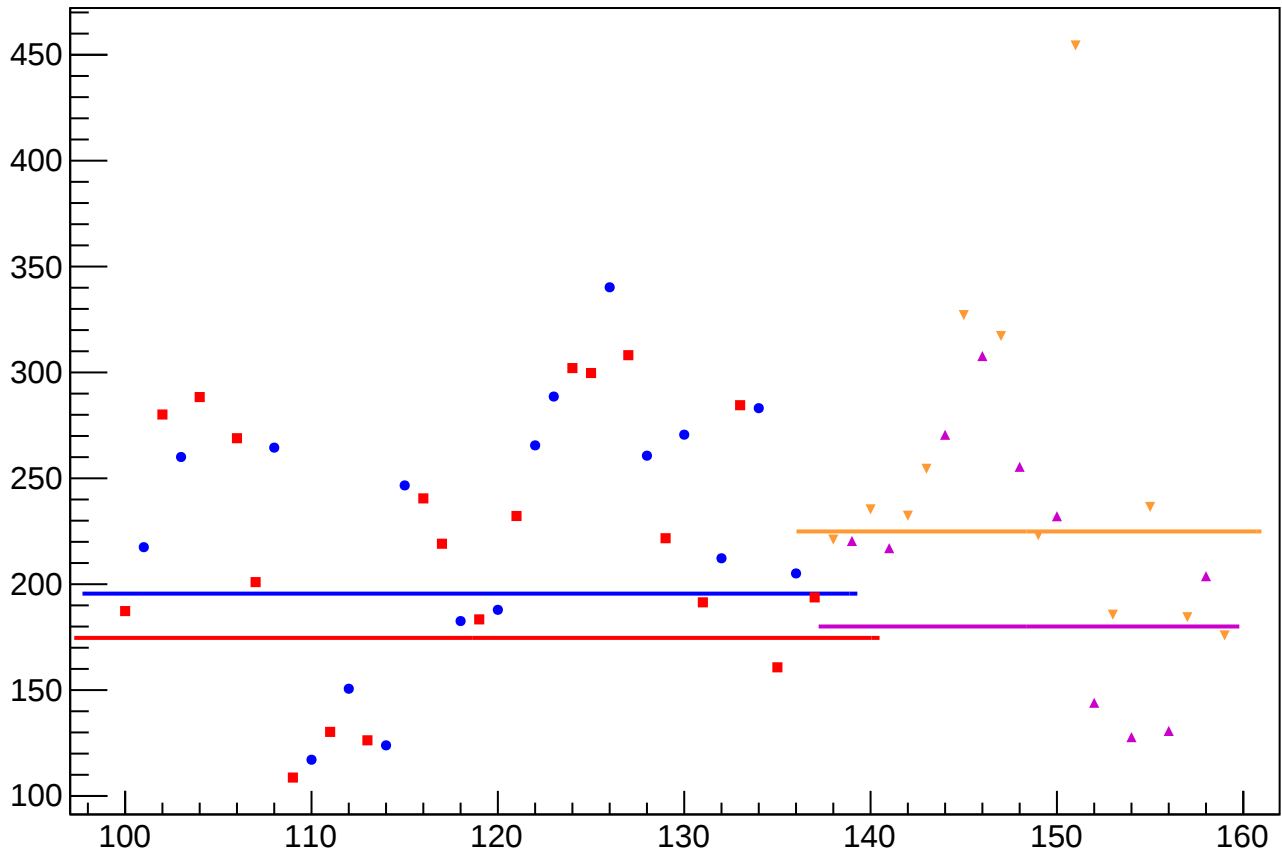
Right Out: -3.768 $\pm$ 70.696 χ^2 /NDF: 7.4/19

Left In: -76.274 $\pm$ 68.399 χ^2 /NDF: 4.9/9

72.116 $\pm$ 55.965 χ^2 /NDF: 10.5/28

-41.217 $\pm$ 49.157 χ^2 /NDF: 12.8/29

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 224.913+/-0.056 χ^2/NDF : 947182.7/11

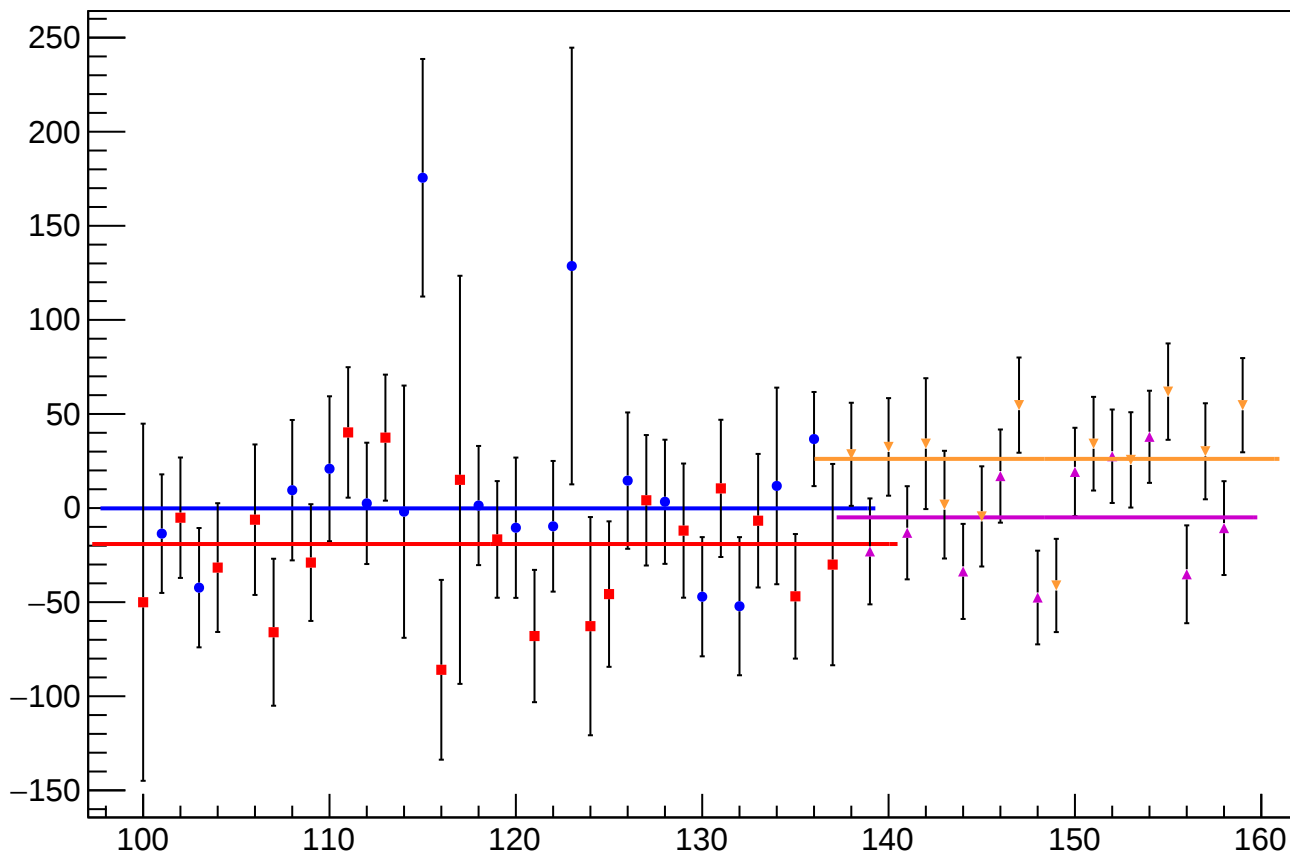
Right Out: 174.649+/-0.050 χ^2/NDF : 1532189.1/19

Left In: 180.028+/-0.048 χ^2/NDF : 1339887.5/9

210.453+/-0.040 χ^2/NDF : 2064713.1/28

177.427+/-0.035 χ^2/NDF : 2878056.0/29

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -0.158 $\pm$ 8.826 χ^2/NDF : 18.1/16

Left Out: 26.141 $\pm$ 7.603 χ^2/NDF : 14.2/11

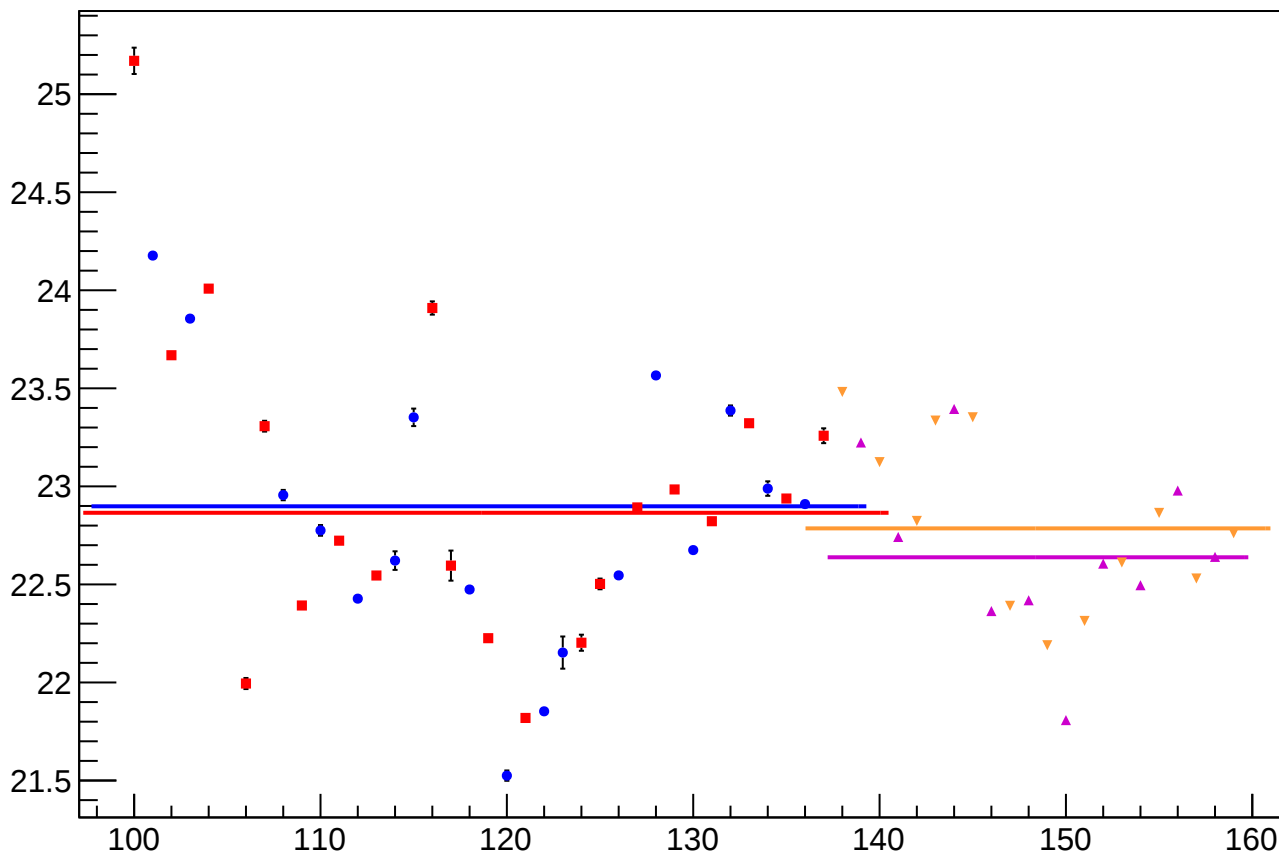
Right Out: -19.104 $\pm$ 8.527 χ^2/NDF : 14.9/19

Left In: -4.943 $\pm$ 7.930 χ^2/NDF : 12.8/9

14.939 $\pm$ 5.760 χ^2/NDF : 37.3/28

-11.510 $\pm$ 5.807 χ^2/NDF : 29.2/29

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 22.898 ± 0.006 χ^2/NDF : 12143.3/16

Left Out: 22.786 ± 0.005 χ^2/NDF : 5955.0/11

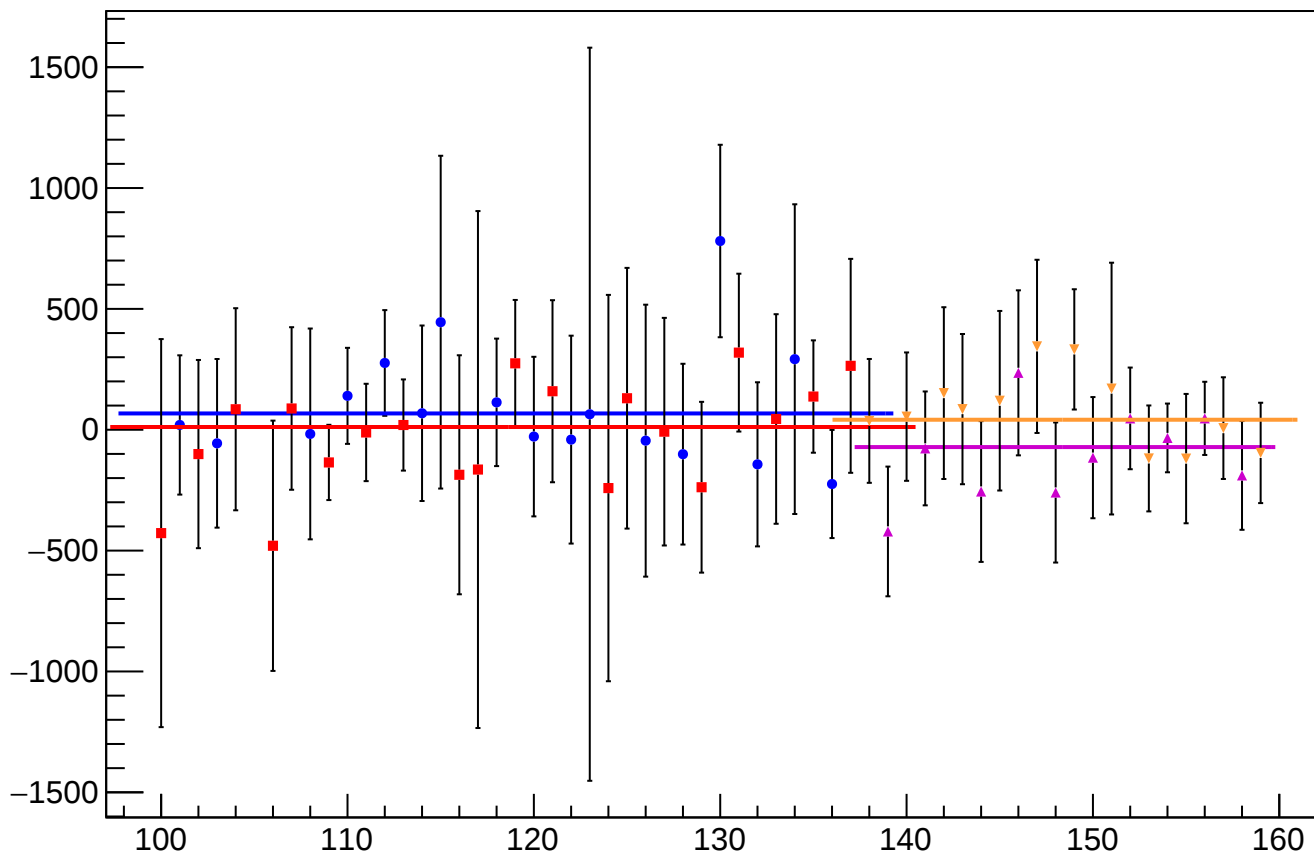
Right Out: 22.865 ± 0.006 χ^2/NDF : 11060.8/19

Left In: 22.638 ± 0.006 χ^2/NDF : 6014.4/9

22.834 ± 0.004 χ^2/NDF : 18285.2/28

22.744 ± 0.004 χ^2/NDF : 17834.9/29

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug



Right In: 67.449+/-79.404 χ^2/NDF : 7.4/16

Left Out: 41.400+/-78.285 χ^2/NDF : 3.7/11

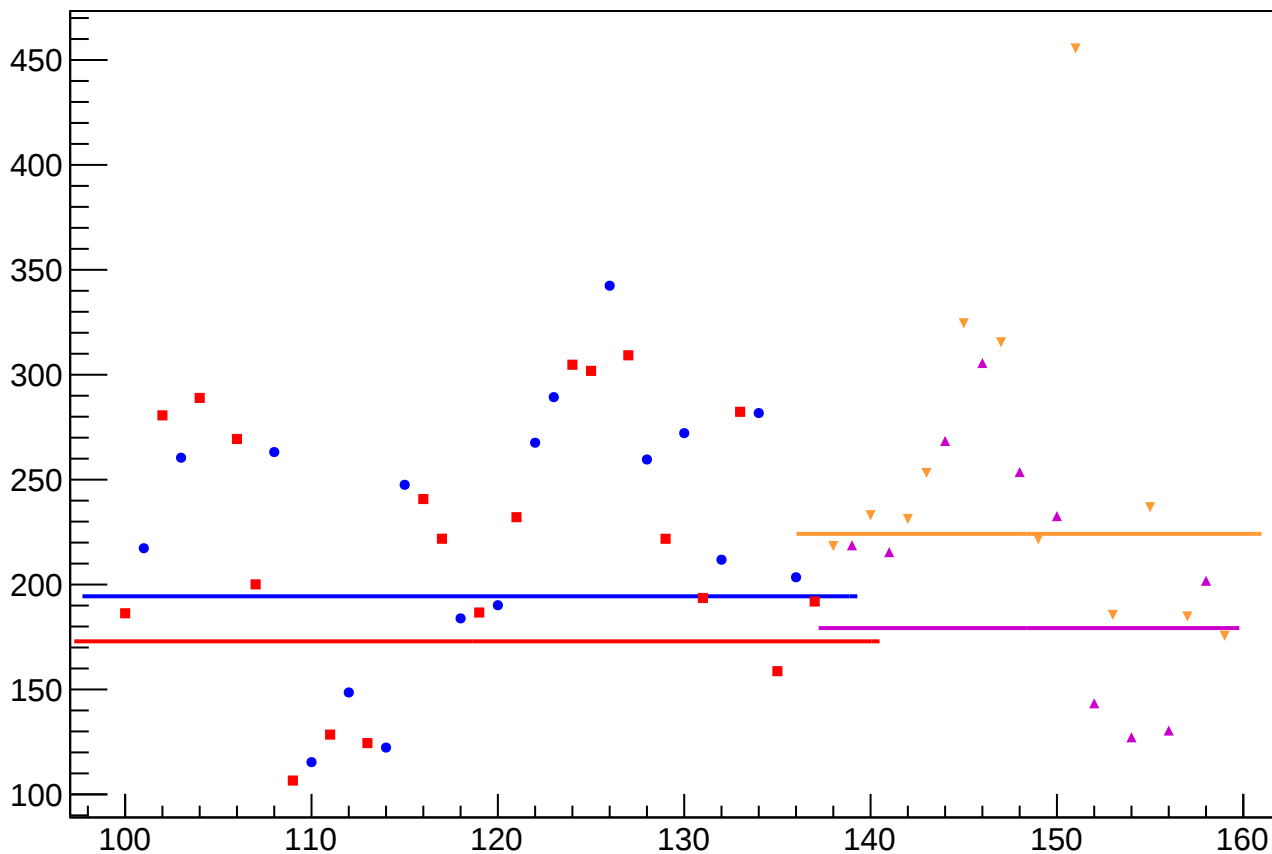
Right Out: 11.355+/-70.203 χ^2/NDF : 5.8/19

Left In: -71.675+/-68.106 χ^2/NDF : 4.6/9

54.239+/-55.748 χ^2/NDF : 11.1/28

-31.418+/-48.883 χ^2/NDF : 11.1/29

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug



Right In: 194.411+/-0.056 χ^2/NDF : 1019913.2/16

Left Out: 224.167+/-0.055 χ^2/NDF : 938293.1/11

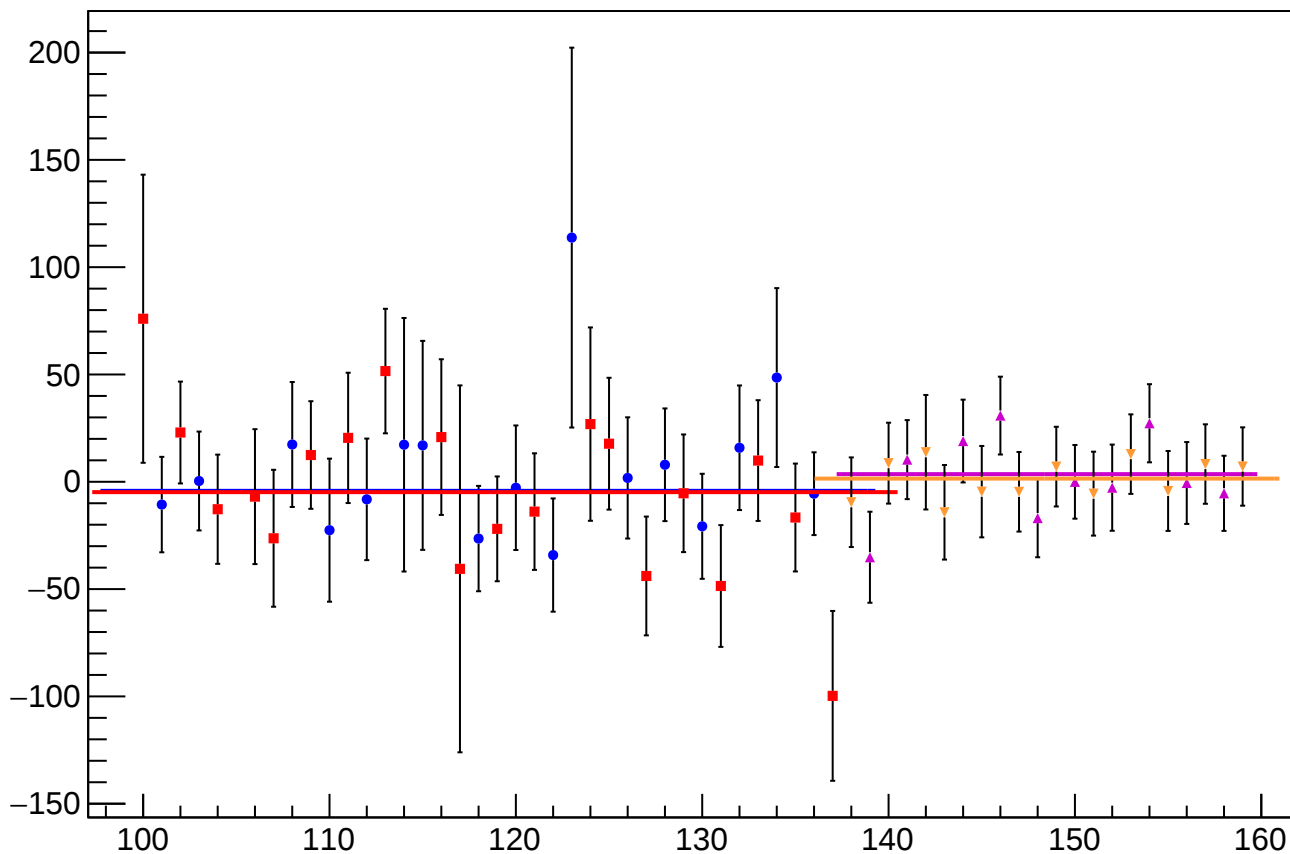
Right Out: 172.942+/-0.050 χ^2/NDF : 1600959.1/19

Left In: 179.264+/-0.048 χ^2/NDF : 1328537.8/9

209.500+/-0.039 χ^2/NDF : 2100629.9/28

176.199+/-0.035 χ^2/NDF : 2937853.5/29

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug



Right In: -4.223 ± 6.871 χ^2/NDF : 8.0/16

Left Out: 1.482 ± 5.687 χ^2/NDF : 2.3/11

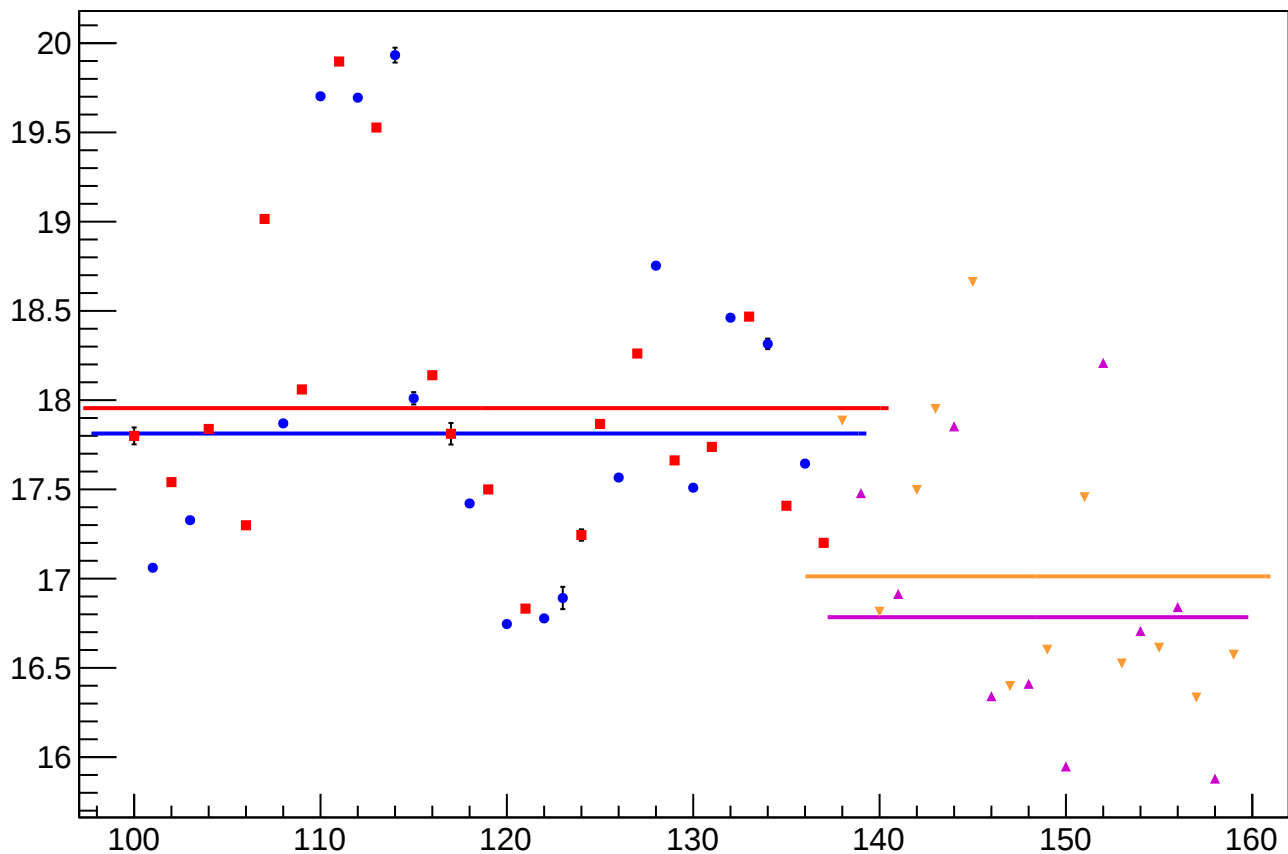
Right Out: -4.820 ± 6.704 χ^2/NDF : 21.3/19

Left In: 3.563 ± 5.892 χ^2/NDF : 9.8/9

-0.837 ± 4.381 χ^2/NDF : 10.7/28

-0.090 ± 4.426 χ^2/NDF : 31.9/29

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug



Right In: 17.813 ± 0.005 χ^2/NDF : 32034.8/16

Left Out: 17.013 ± 0.004 χ^2/NDF : 30354.6/11

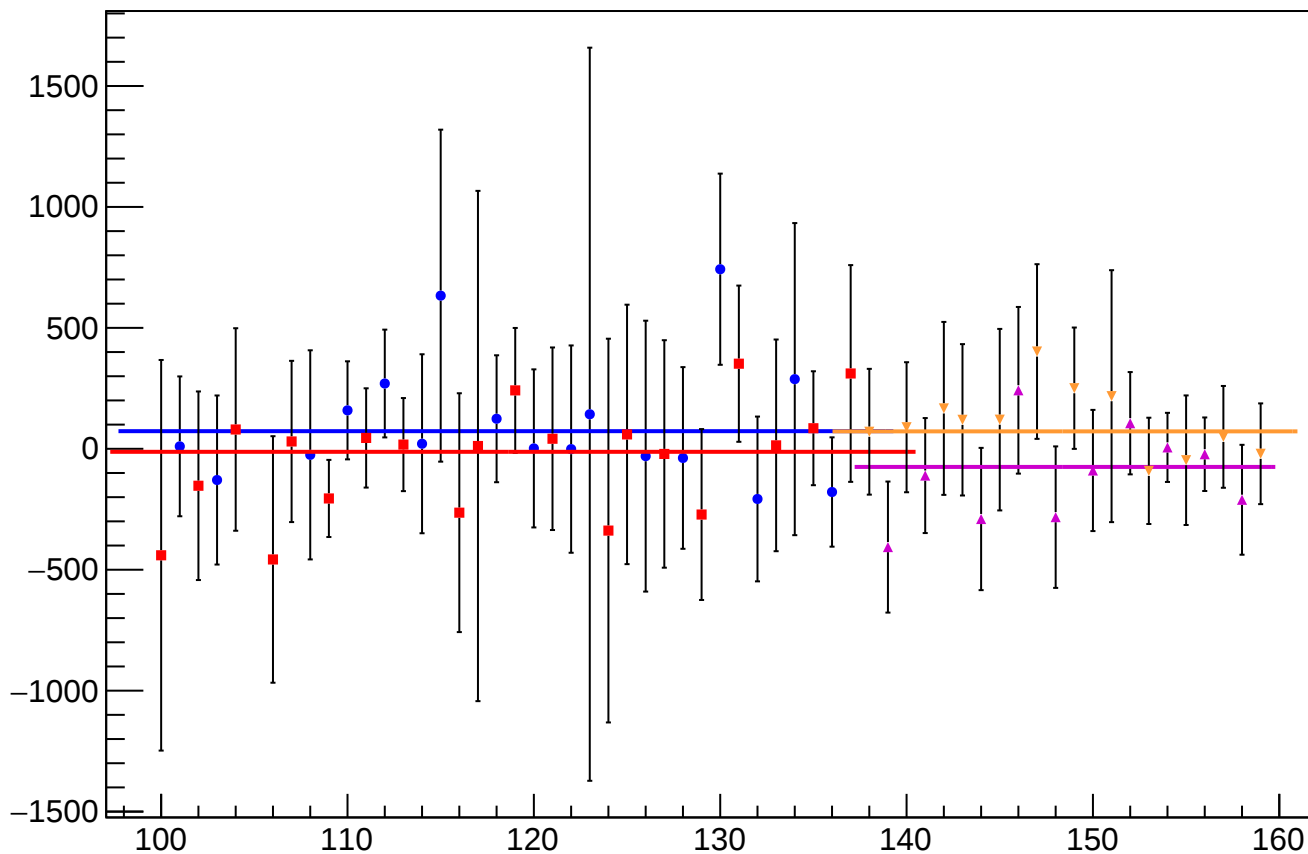
Right Out: 17.955 ± 0.005 χ^2/NDF : 25451.0/19

Left In: 16.784 ± 0.004 χ^2/NDF : 30622.8/9

17.338 ± 0.003 χ^2/NDF : 78495.5/28

17.294 ± 0.003 χ^2/NDF : 90506.1/29

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 72.070+/-78.740 χ^2/NDF : 2.5/11

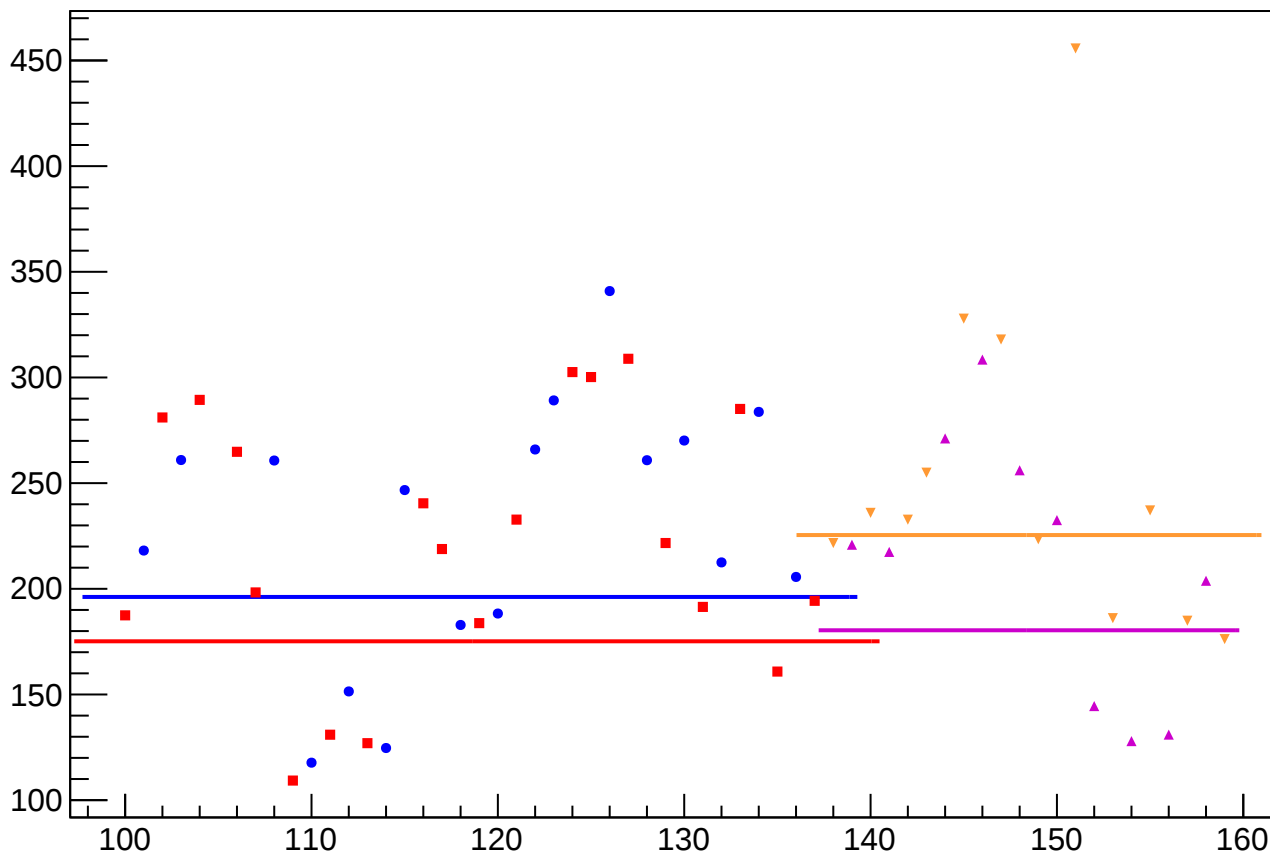
Right Out: -12.456+/-70.853 χ^2/NDF : 6.7/19

Left In: -74.916+/-68.534 χ^2/NDF : 4.9/9

72.473+/-56.100 χ^2/NDF : 9.7/28

-44.725+/-49.260 χ^2/NDF : 12.1/29

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug



Right In: 196.151+/-0.057 χ^2/NDF : 964998.4/16

Left Out: 225.437+/-0.056 χ^2/NDF : 947121.1/11

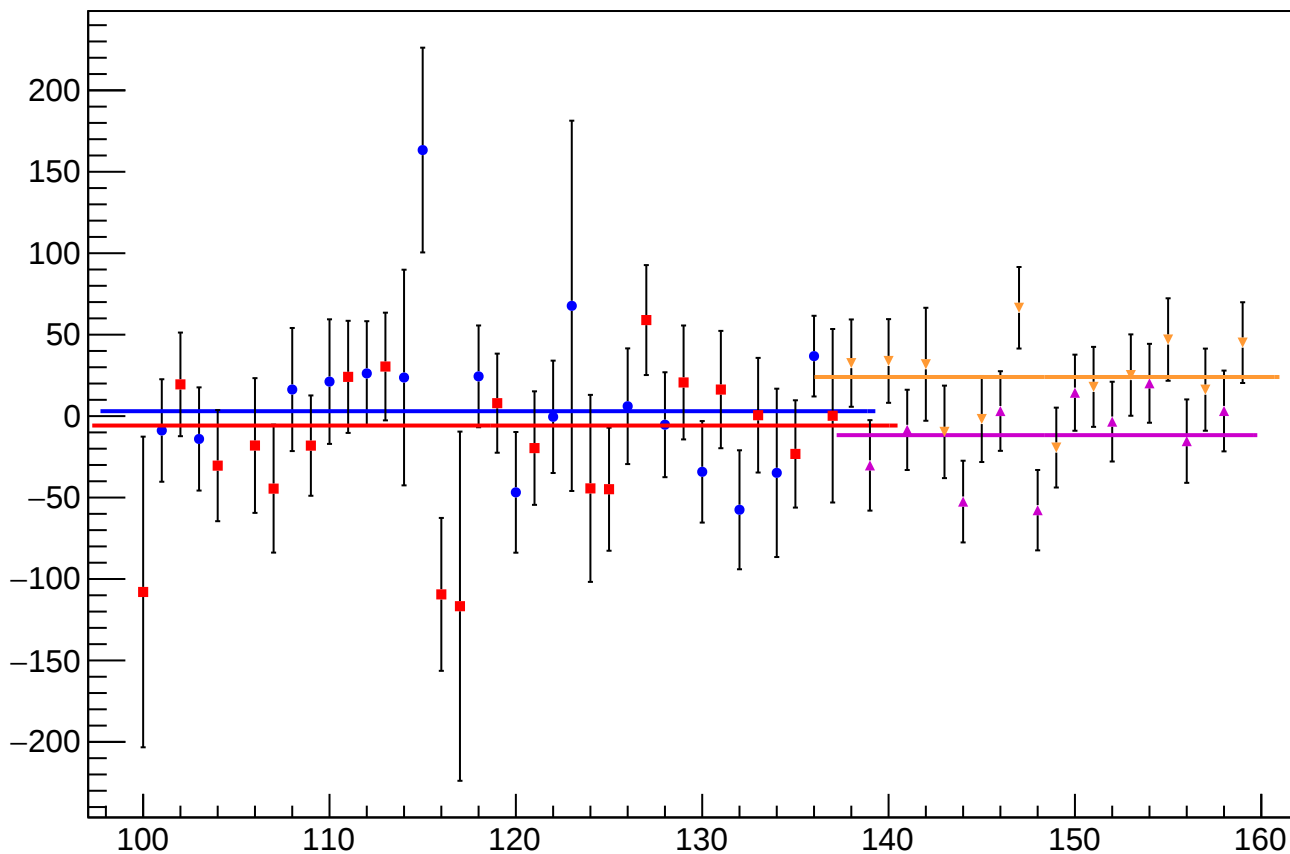
Right Out: 175.163+/-0.050 χ^2/NDF : 1514398.4/19

Left In: 180.379+/-0.048 χ^2/NDF : 1339917.3/9

211.017+/-0.040 χ^2/NDF : 2048345.6/28

177.858+/-0.035 χ^2/NDF : 2859916.4/29

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug



Right In: 3.022 ± 8.751 χ^2/NDF : 17.2/16

Left Out: 24.018 ± 7.518 χ^2/NDF : 10.4/11

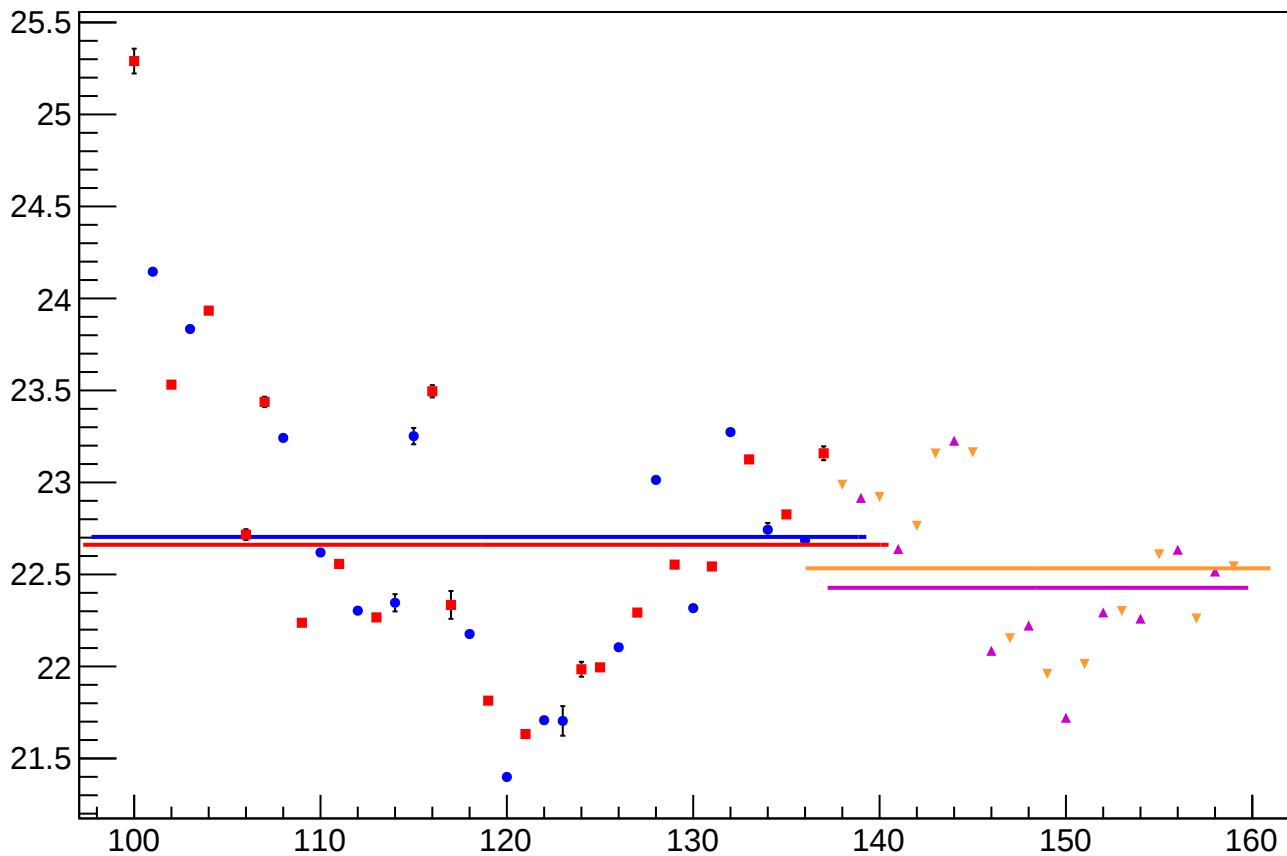
Right Out: -5.786 ± 8.451 χ^2/NDF : 18.3/19

Left In: -11.688 ± 7.855 χ^2/NDF : 10.4/9

15.103 ± 5.703 χ^2/NDF : 30.9/28

-8.952 ± 5.754 χ^2/NDF : 28.9/29

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug



Right In: 22.704+/-0.006 χ^2/NDF : 14105.8/16

Left Out: 22.533+/-0.005 χ^2/NDF : 6101.7/11

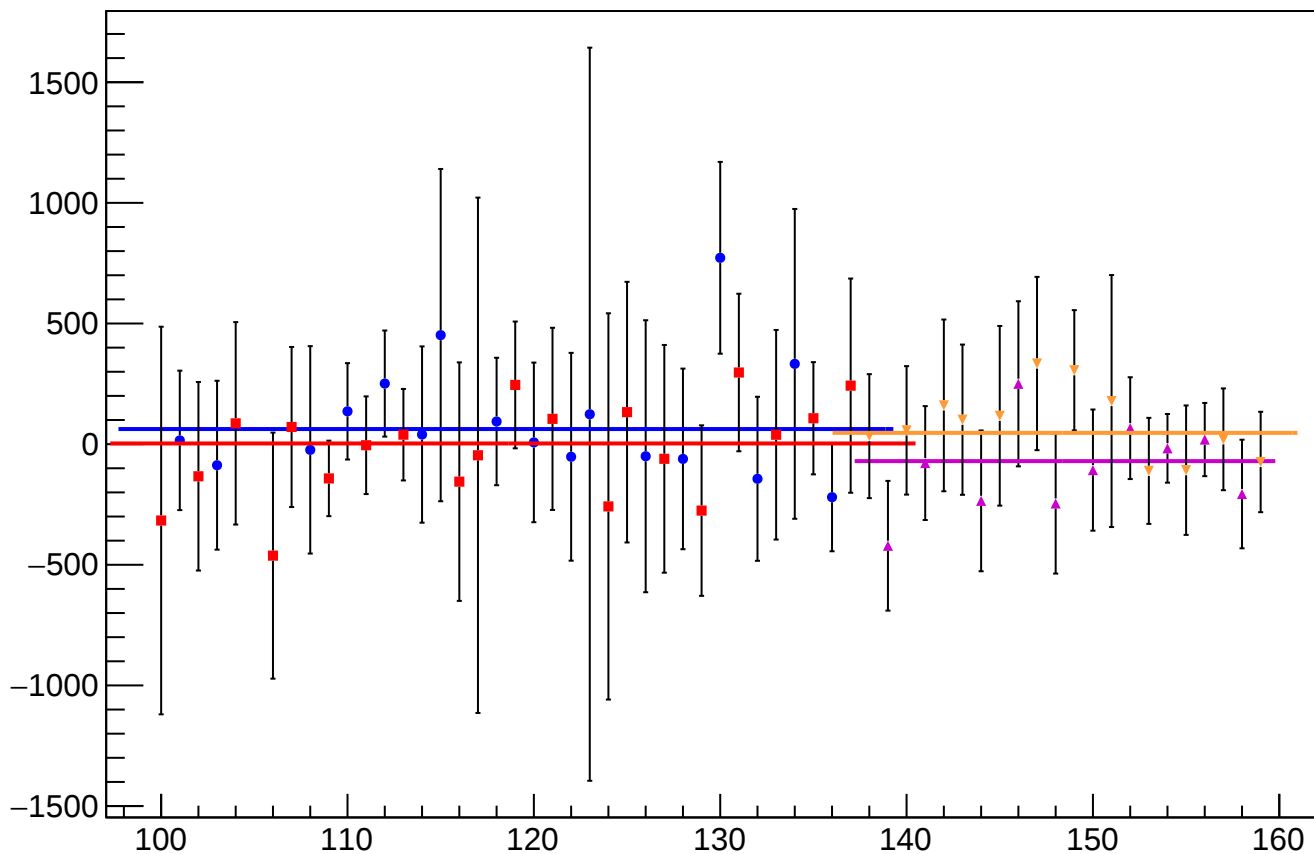
Right Out: 22.661+/-0.006 χ^2/NDF : 12962.1/19

Left In: 22.427+/-0.006 χ^2/NDF : 5468.6/9

22.606+/-0.004 χ^2/NDF : 20644.9/28

22.536+/-0.004 χ^2/NDF : 19251.1/29

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 46.774+/-78.468 χ^2/NDF : 3.2/11

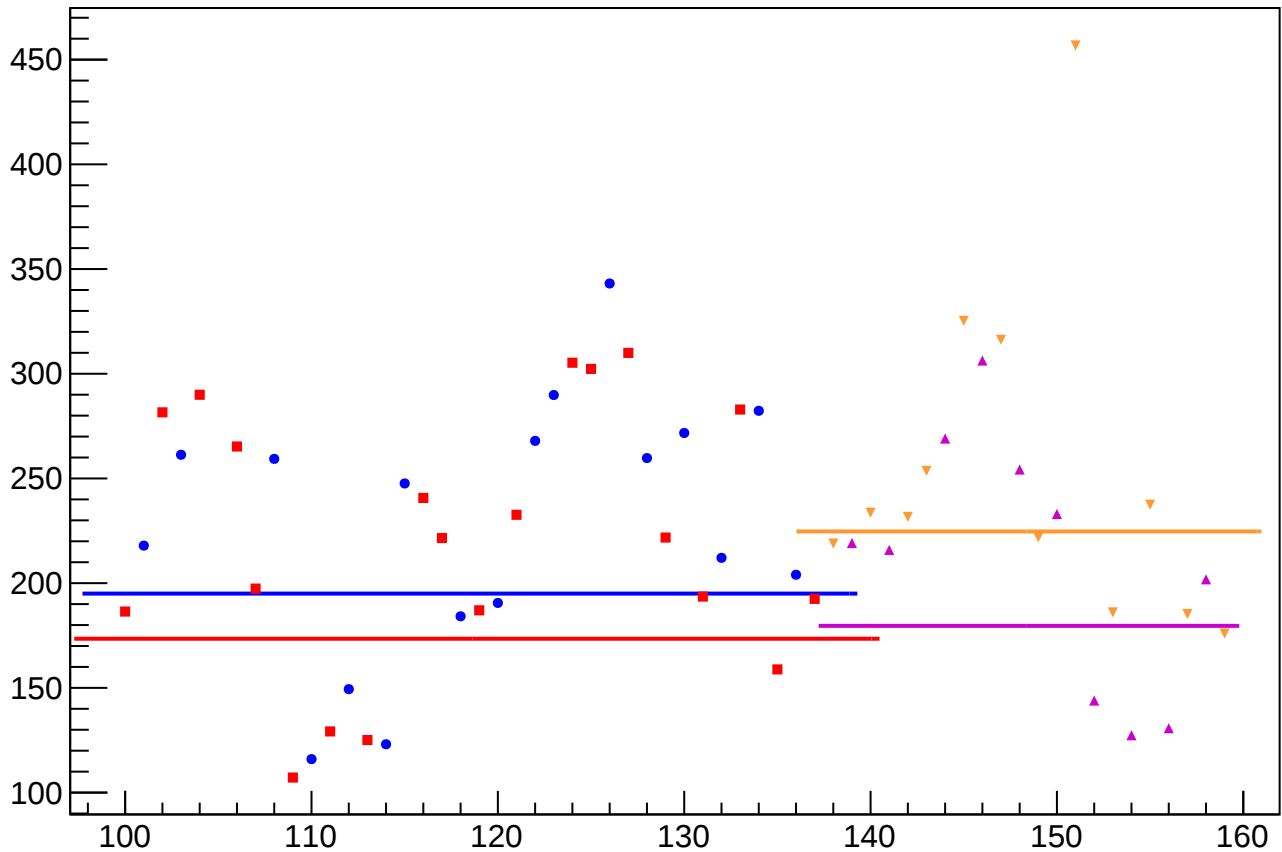
Right Out: 2.824+/-70.364 χ^2/NDF : 5.2/19

Left In: -70.308+/-68.241 χ^2/NDF : 4.6/9

54.560+/-55.883 χ^2/NDF : 10.2/28

-34.862+/-48.987 χ^2/NDF : 10.3/29

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug



Right In: 195.022+/-0.056 χ^2/NDF : 1004284.9/16

Left Out: 224.690+/-0.055 χ^2/NDF :938269.9/11

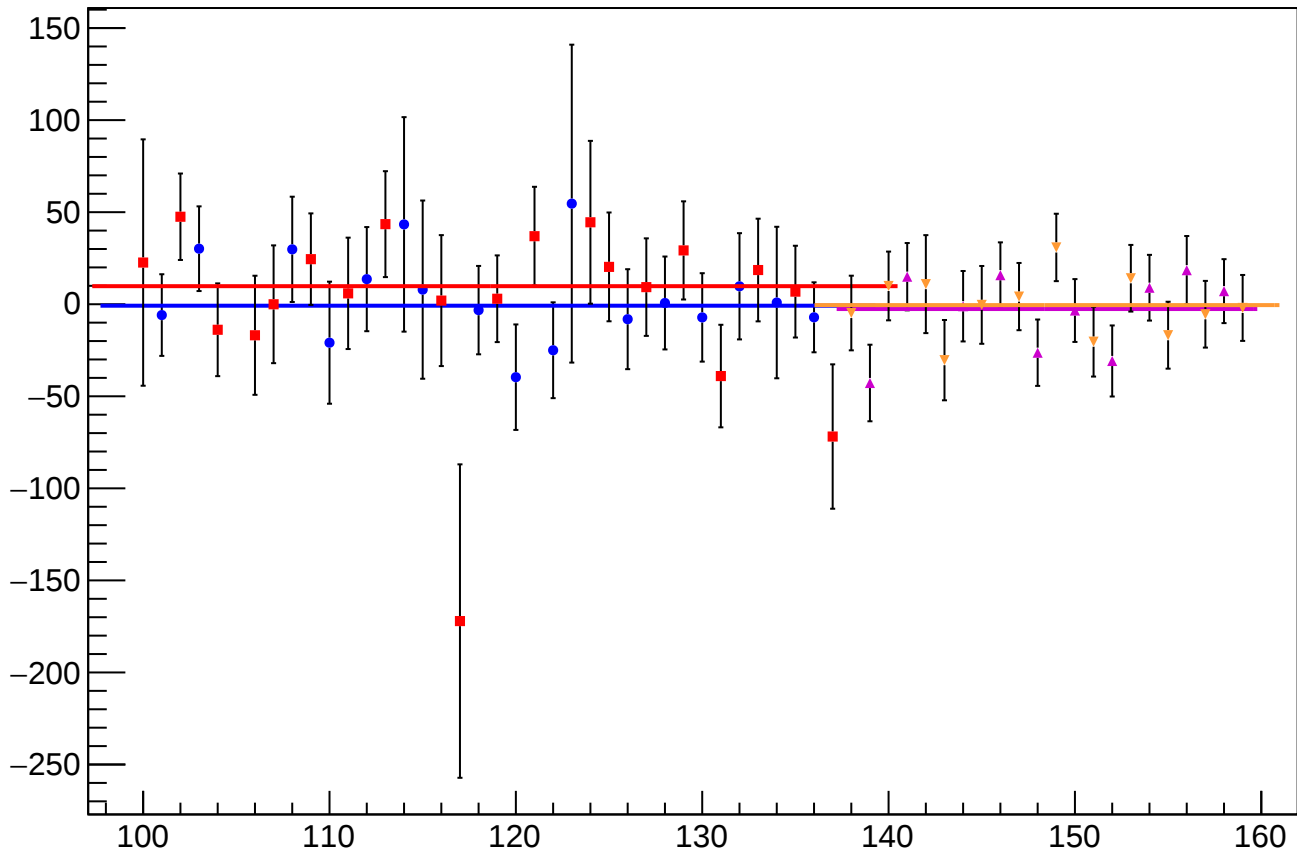
210.069+/-0.040 χ^2/NDF : 2083451.7/28

Right Out: 173.471+/-0.050 χ^2/NDF : 1582273.4/19

176.637+/-0.035 χ^2/NDF : 2918789.0/29

Left In: 179.615+/-0.048 χ^2/NDF :1328658.4/9

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: -0.473 ± 5.584 χ^2/NDF : 8.1/11

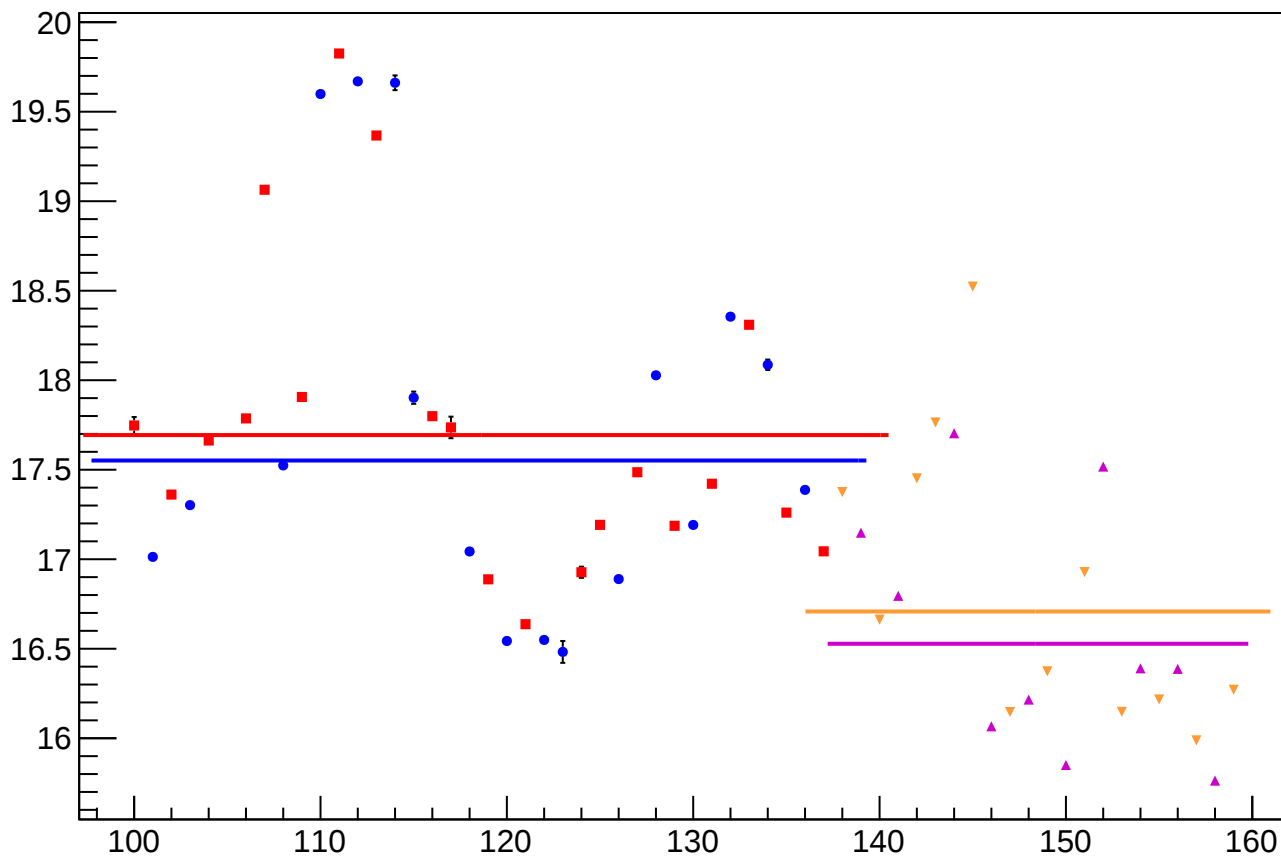
Right Out: 9.809 ± 6.606 χ^2/NDF : 20.5/19

Left In: -2.605 ± 5.799 χ^2/NDF : 11.6/9

-0.606 ± 4.308 χ^2/NDF : 15.8/28

2.797 ± 4.358 χ^2/NDF : 34.2/29

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug



Right In: 17.552 ± 0.005 χ^2/NDF : 34027.1/16

Left Out: 16.708 ± 0.004 χ^2/NDF : 33743.6/11

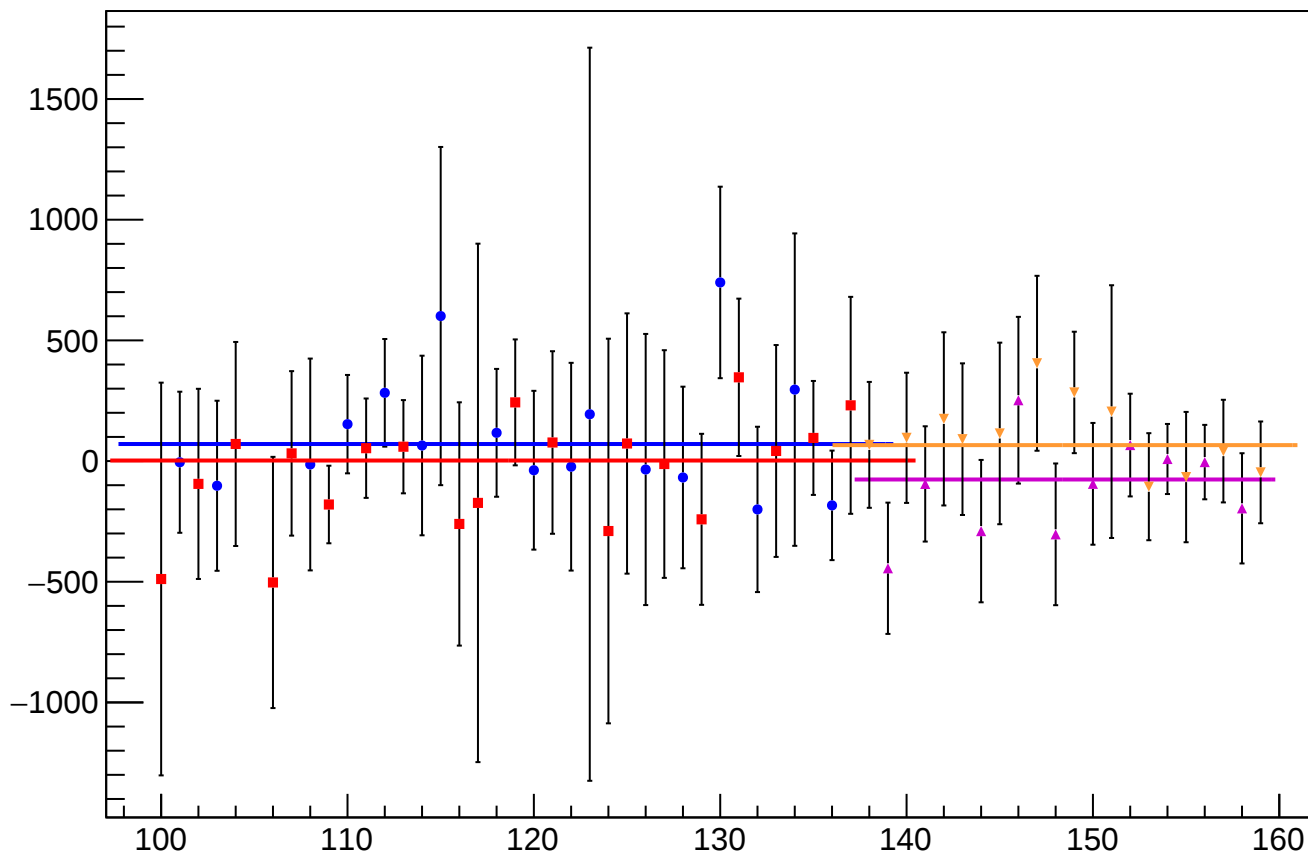
Right Out: 17.694 ± 0.005 χ^2/NDF : 30742.5/19

Left In: 16.528 ± 0.004 χ^2/NDF : 24225.7/9

17.050 ± 0.003 χ^2/NDF : 86244.9/28

17.035 ± 0.003 χ^2/NDF : 90151.6/29

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 66.059+/-79.266 χ^2/NDF : 3.0/11

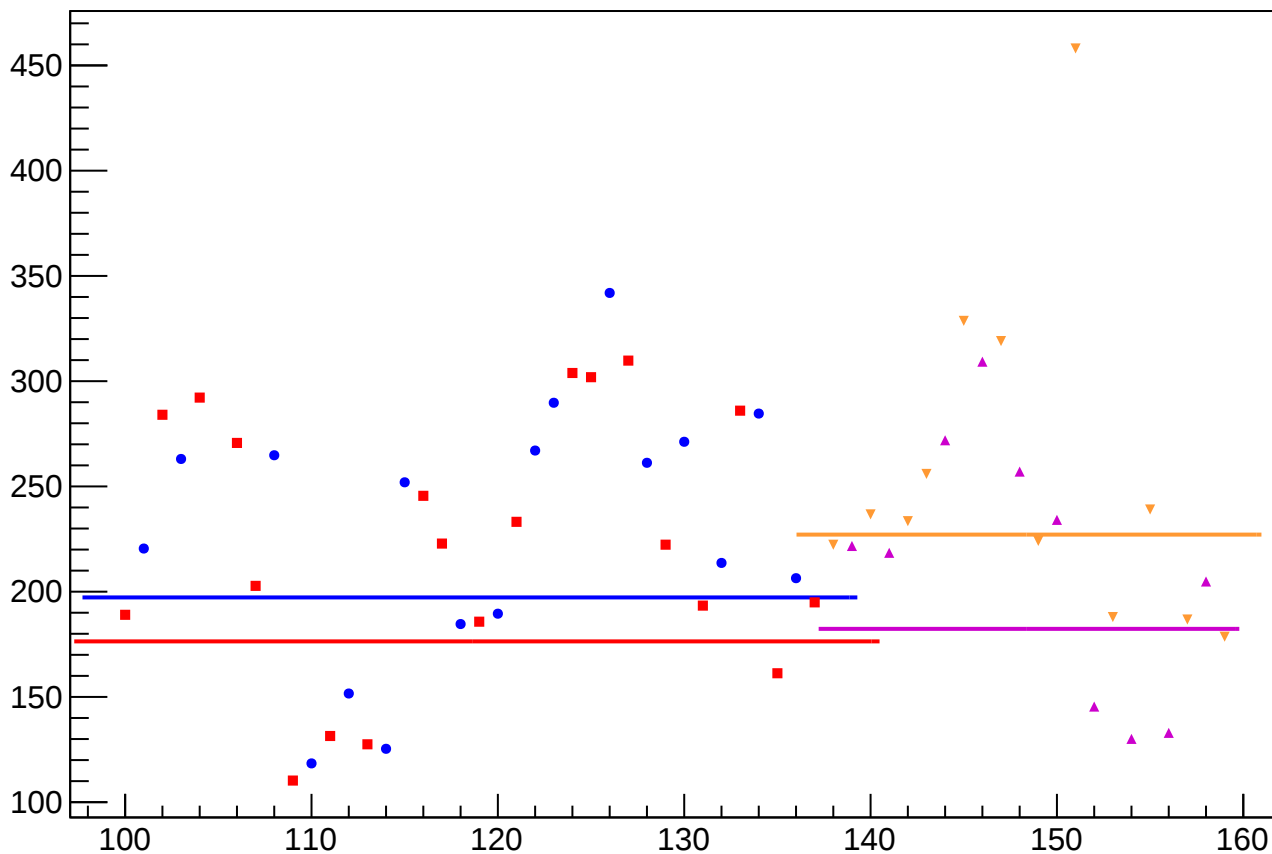
Right Out: 2.285+/-71.350 χ^2/NDF : 6.2/19

Left In: -76.337+/-69.170 χ^2/NDF : 5.2/9

68.314+/-56.449 χ^2/NDF : 10.2/28

-38.246+/-49.663 χ^2/NDF : 12.0/29

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 197.271 $\pm$ 0.057 χ^2 /NDF: 969549.7/16

Left Out: 227.115 $\pm$ 0.056 χ^2 /NDF: 928678.9/11

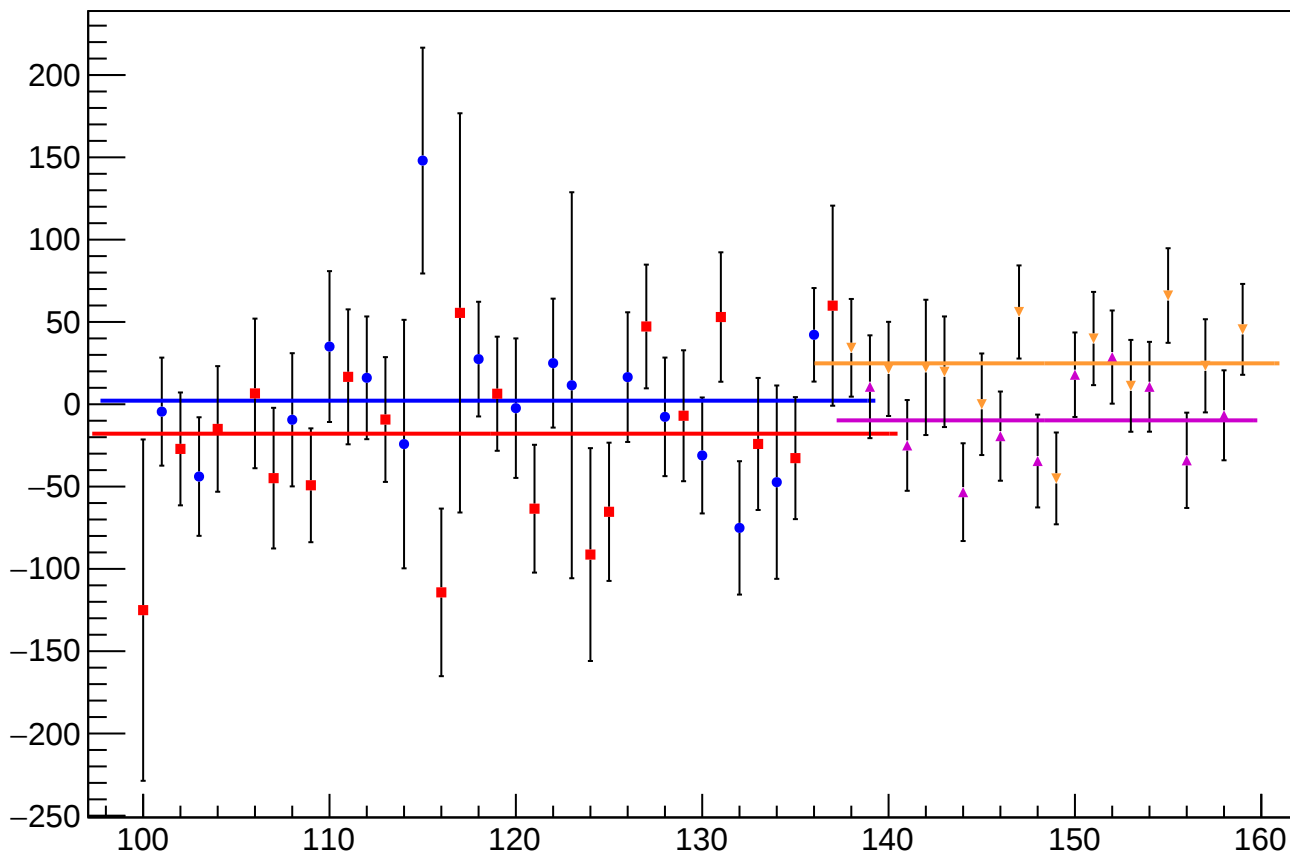
Right Out: 176.387 $\pm$ 0.050 χ^2 /NDF: 1523467.7/19

Left In: 182.338 $\pm$ 0.049 χ^2 /NDF: 1300117.9/9

212.407 $\pm$ 0.040 χ^2 /NDF: 2037955.9/28

179.455 $\pm$ 0.035 χ^2 /NDF: 2830759.1/29

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 24.857 ± 8.535 $\chi^2/\text{NDF}: 11.4/11$

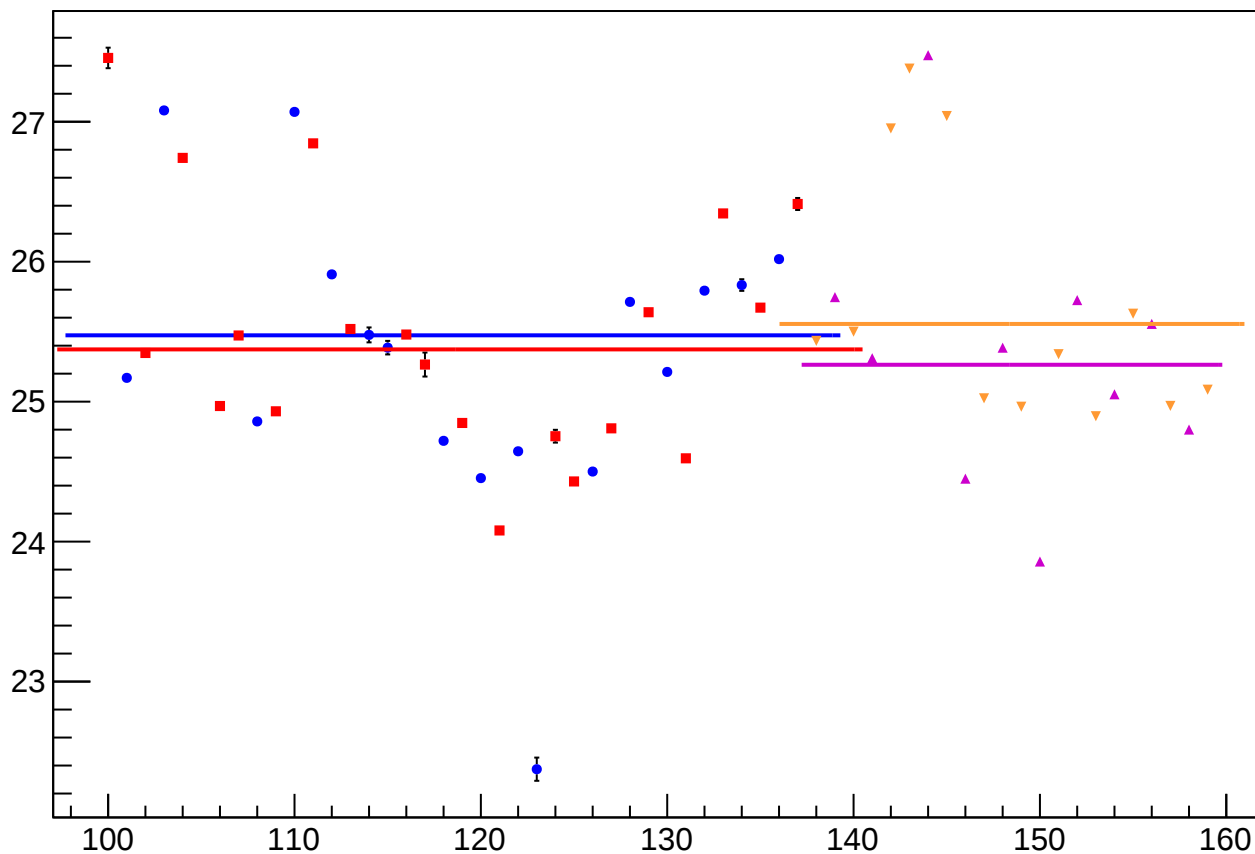
Right Out: -17.869 ± 9.468 $\chi^2/\text{NDF}: 20.0/19$

Left In: -9.777 ± 8.861 $\chi^2/\text{NDF}: 8.1/9$

15.103 ± 6.443 $\chi^2/\text{NDF}: 29.8/28$

-13.556 ± 6.470 $\chi^2/\text{NDF}: 28.4/29$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 25.474 ± 0.007 χ^2/NDF : 14061.2/16

Left Out: 25.555 ± 0.006 χ^2/NDF : 17174.0/11

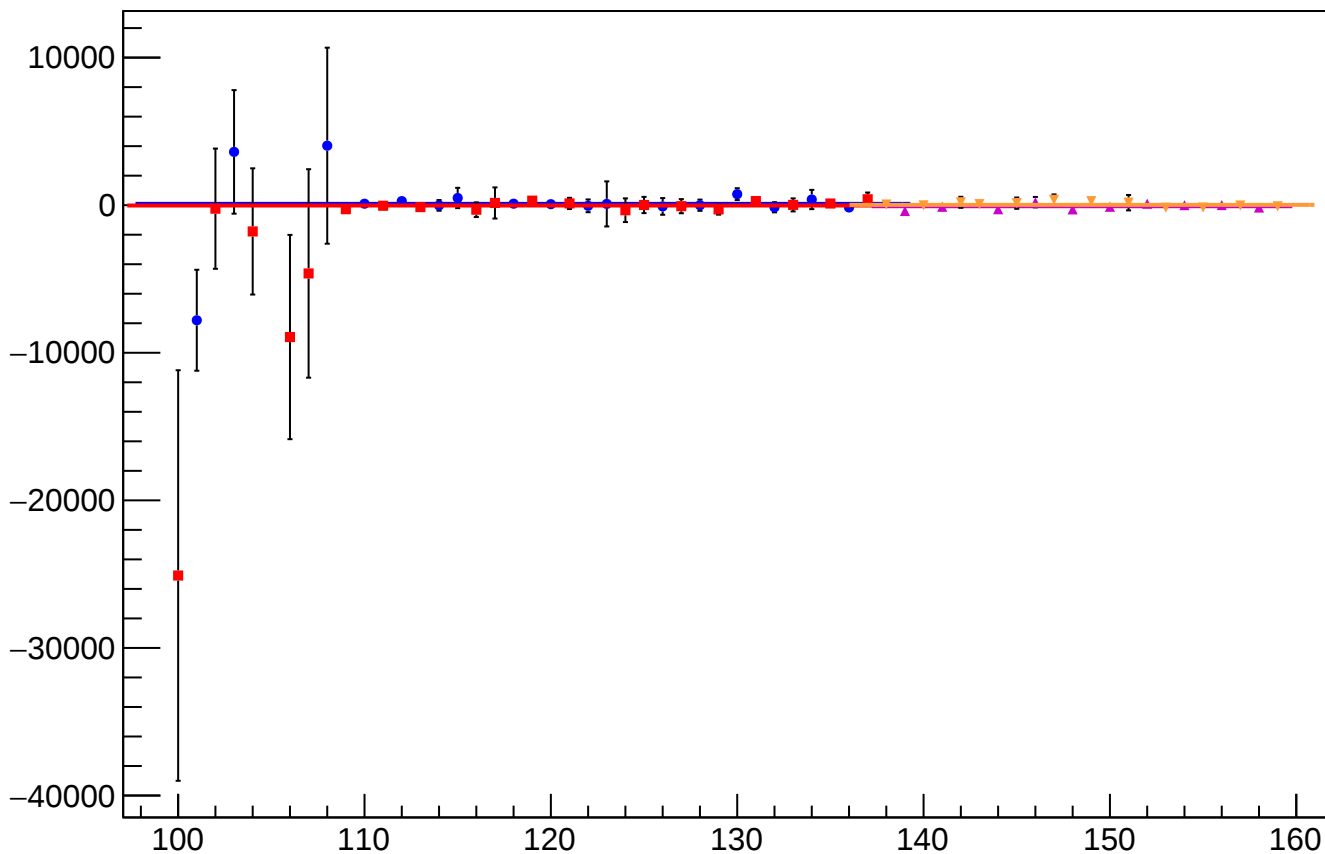
Right Out: 25.373 ± 0.007 χ^2/NDF : 13582.8/19

Left In: 25.264 ± 0.006 χ^2/NDF : 20852.2/9

25.520 ± 0.005 χ^2/NDF : 31313.1/28

25.315 ± 0.005 χ^2/NDF : 34578.4/29

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: 21.987+/-81.013 χ^2/NDF : 3.6/11

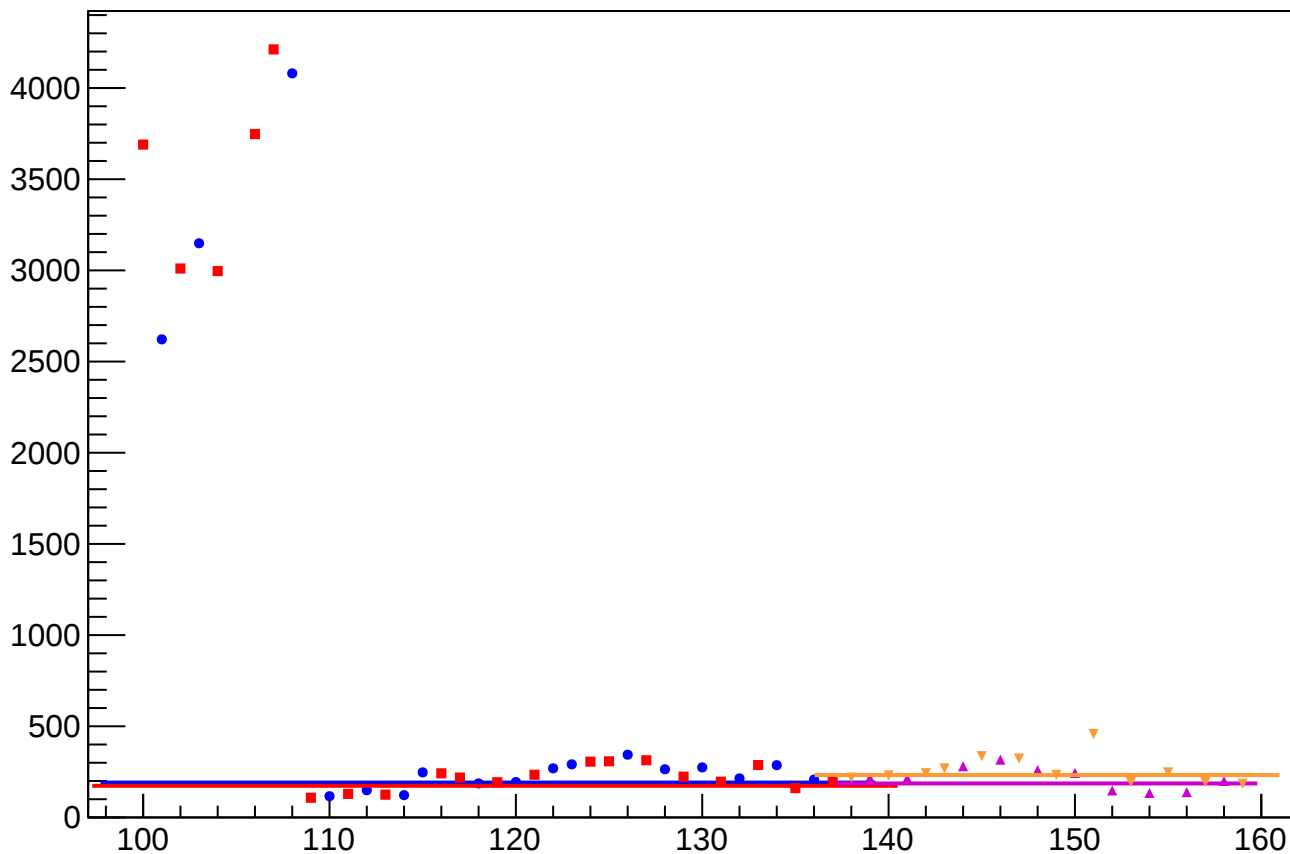
Right Out: -21.600+/-80.665 χ^2/NDF : 11.9/19

Left In: -70.438+/-70.493 χ^2/NDF : 4.4/9

53.153+/-59.487 χ^2/NDF : 16.2/28

-49.291+/-53.080 χ^2/NDF : 16.5/29

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug



Right In: 191.190 $\pm$ 0.062 χ^2 /NDF: 3571747.5/16

Left Out: 232.613 $\pm$ 0.057 χ^2 /NDF: 891208.3/11

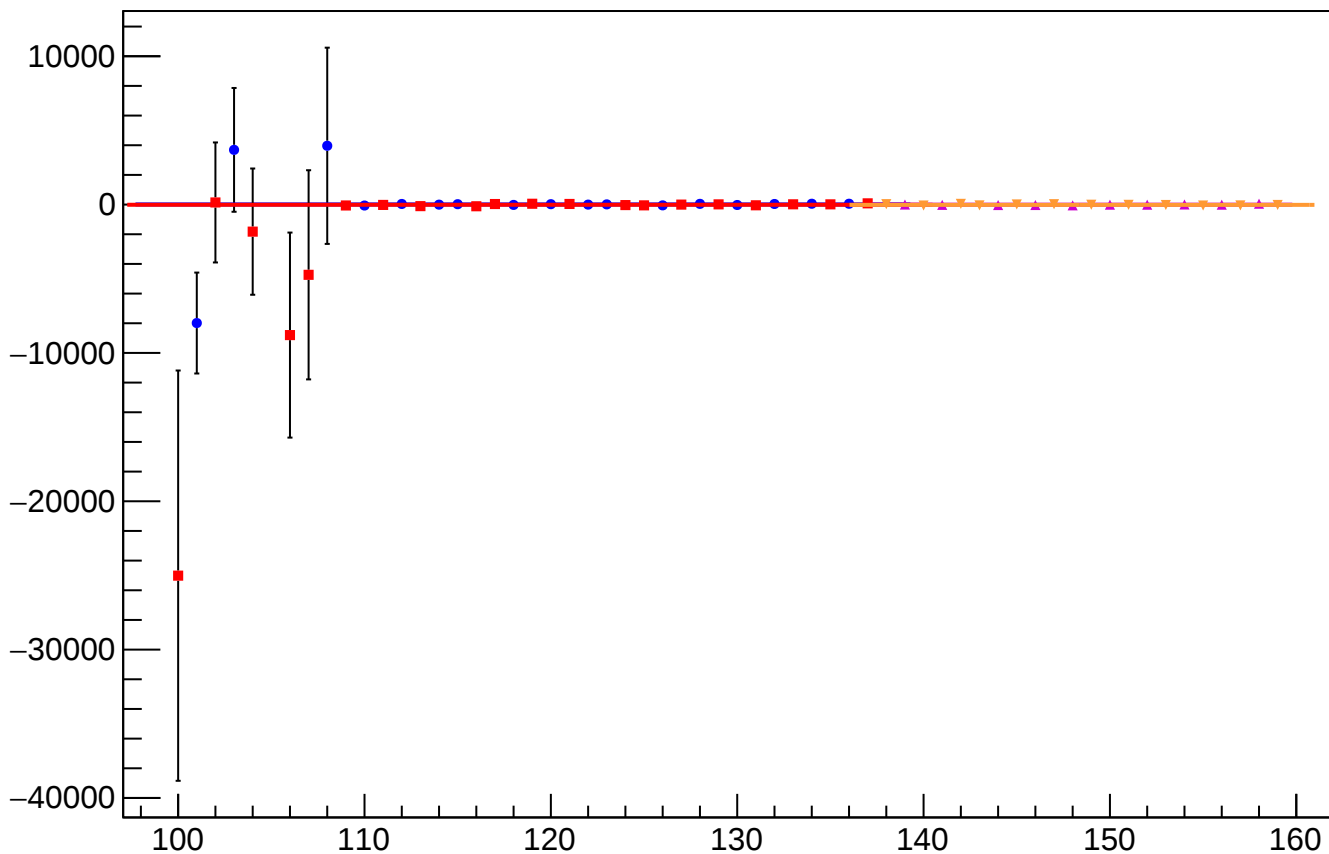
Right Out: 173.536 $\pm$ 0.057 χ^2 /NDF: 4210933.2/19

Left In: 186.417 $\pm$ 0.050 χ^2 /NDF: 1224290.1/9

213.524 $\pm$ 0.042 χ^2 /NDF: 4703907.8/28

180.840 $\pm$ 0.038 χ^2 /NDF: 5464136.8/29

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -19.409+/-10.000 χ^2/NDF : 11.9/11

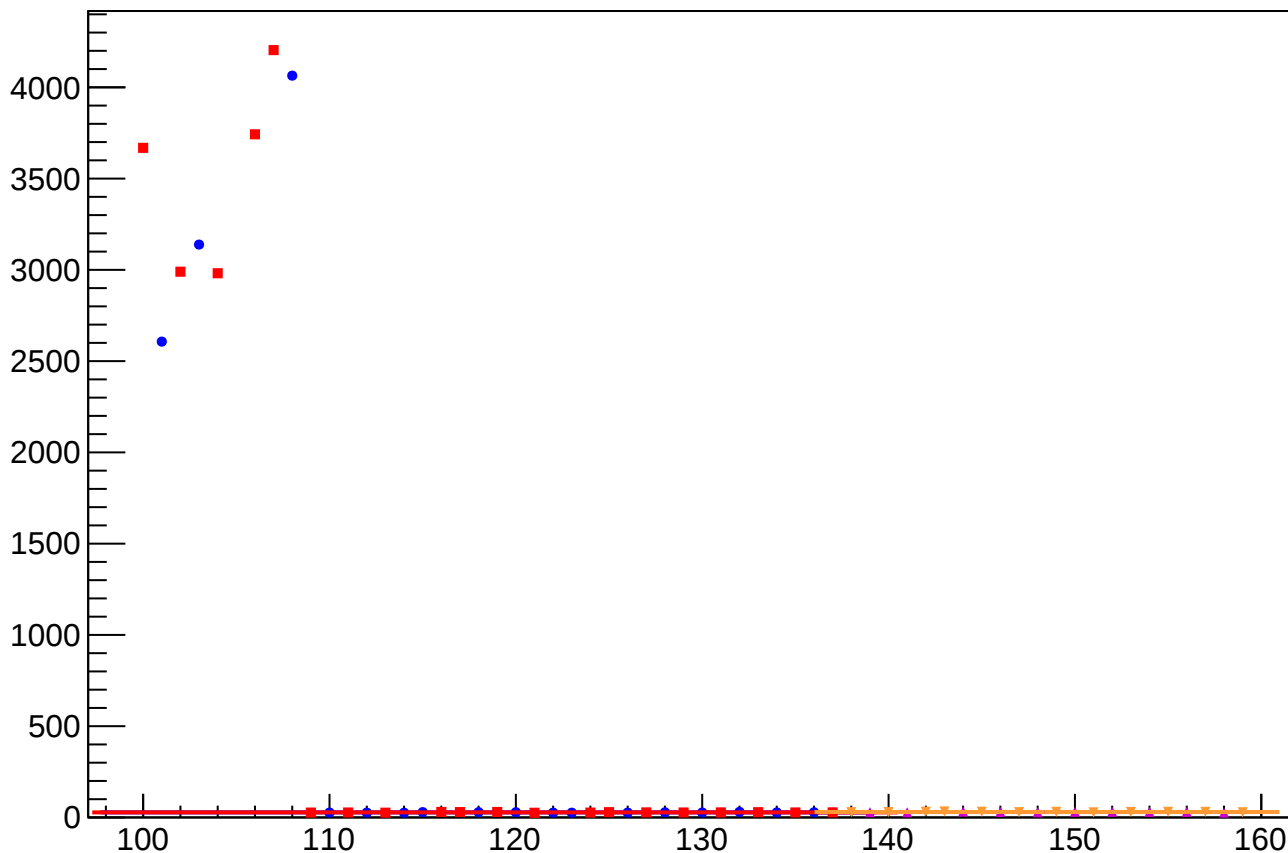
Right Out: -12.573+/-12.182 χ^2/NDF : 24.5/19

Left In: -6.364+/-10.437 χ^2/NDF : 8.5/9

-7.418+/-7.731 χ^2/NDF : 33.8/28

-8.992+/-7.926 χ^2/NDF : 33.2/29

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug



Right In: 27.837+/-0.009 χ^2/NDF : 3026887.2/16

Left Out: 29.895+/-0.007 χ^2/NDF : 36399.5/11

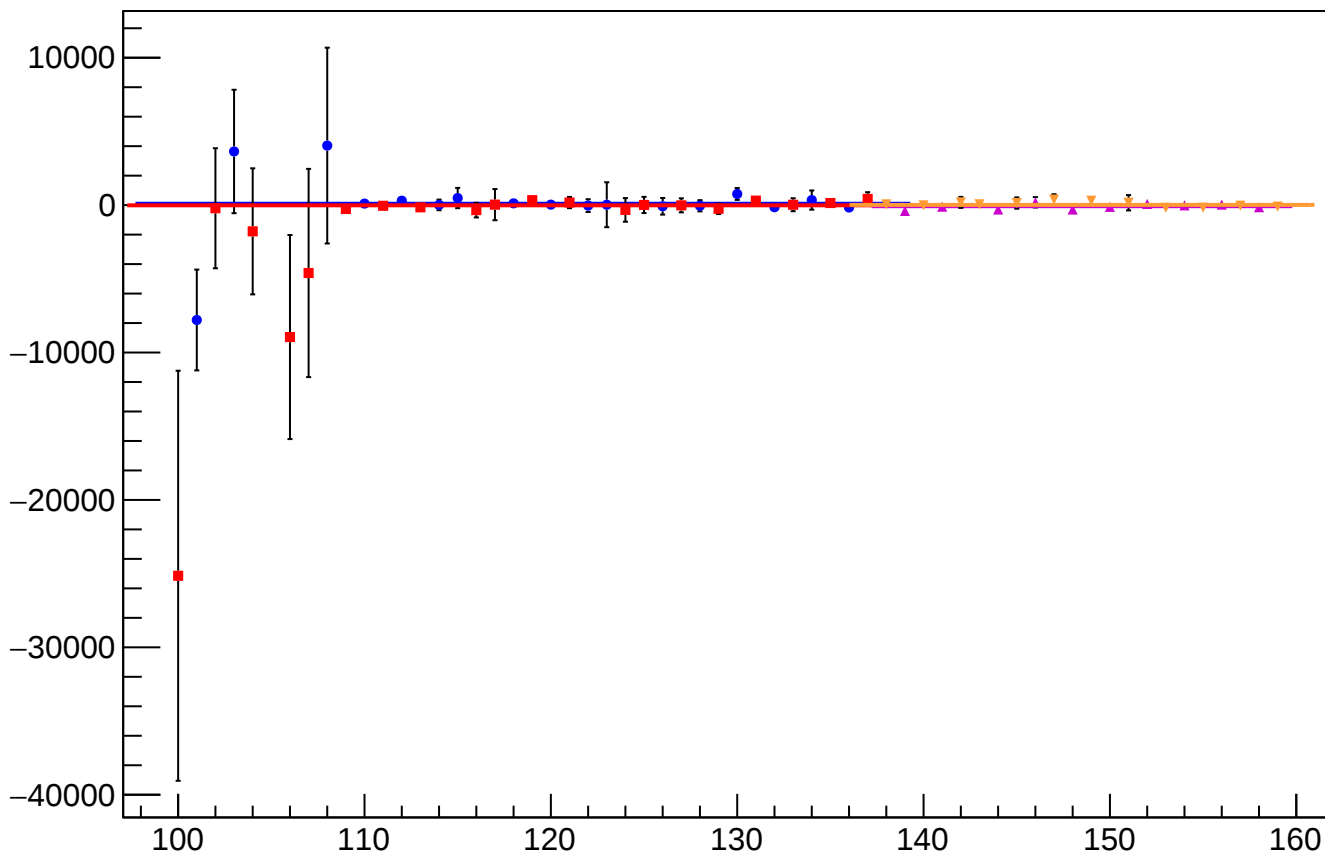
Right Out: 27.706+/-0.009 χ^2/NDF : 3477080.4/19

Left In: 29.681+/-0.007 χ^2/NDF : 57156.0/9

29.067+/-0.005 χ^2/NDF : 3097374.5/28

28.845+/-0.006 χ^2/NDF : 3564534.1/29

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug



Right In: 92.840 $\pm$ 87.359 χ^2 /NDF: 12.6/16

Left Out: 16.539 $\pm$ 80.829 χ^2 /NDF: 4.1/11

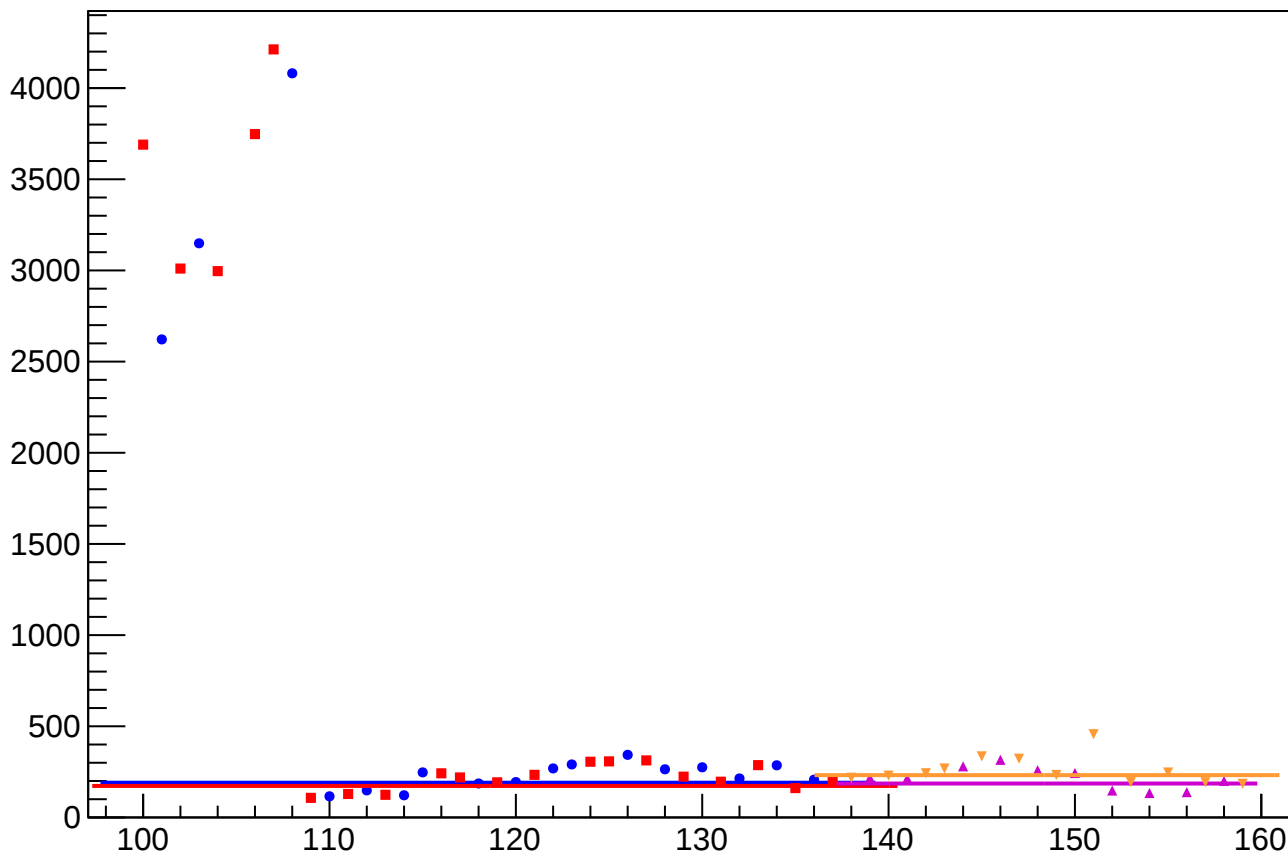
Right Out: -12.509 $\pm$ 80.407 χ^2 /NDF: 12.7/19

Left In: -71.864 $\pm$ 70.358 χ^2 /NDF: 4.4/9

51.732 $\pm$ 59.329 χ^2 /NDF: 17.1/28

-46.125 $\pm$ 52.949 χ^2 /NDF: 17.4/29

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 232.087+/-0.057 χ^2/NDF : 891269.5/11

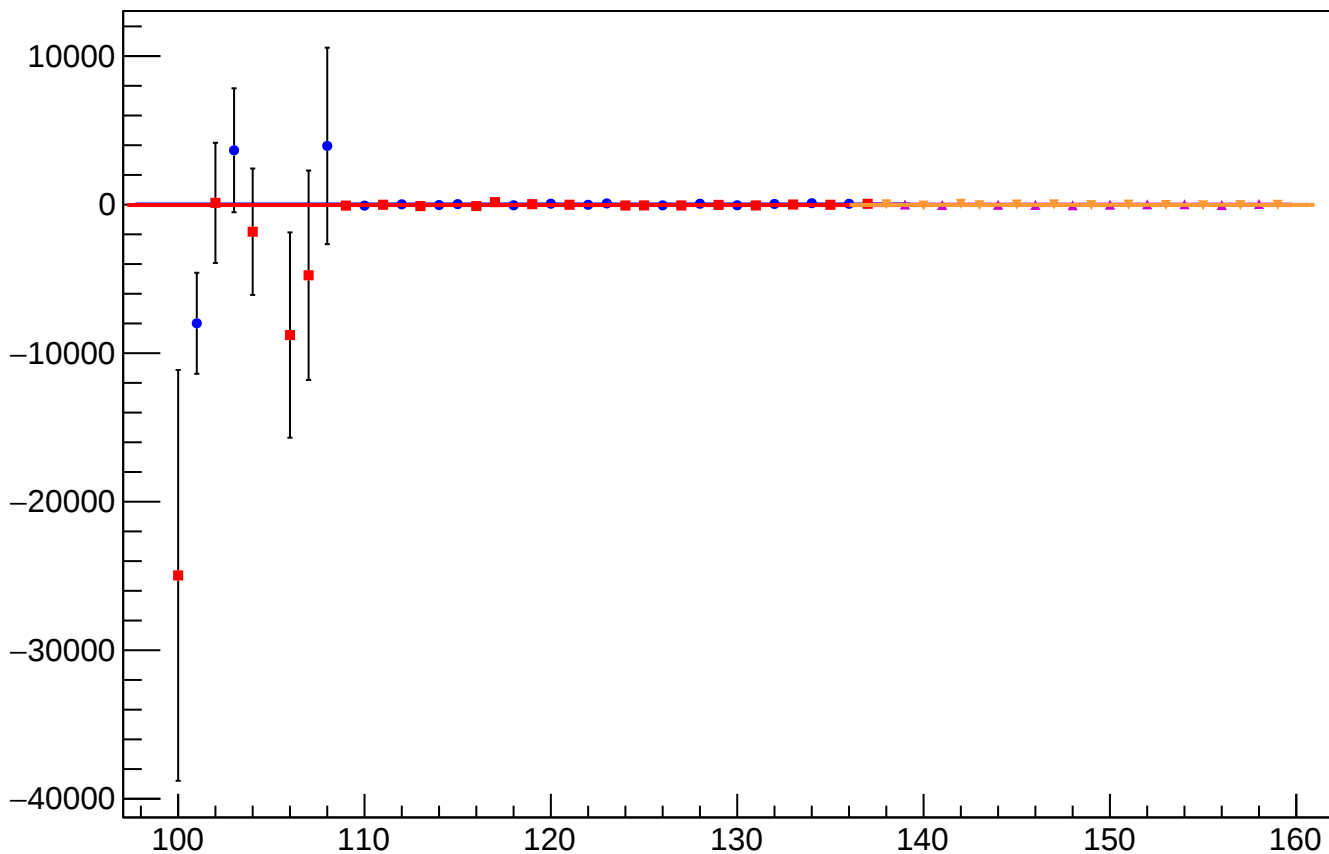
Right Out: 172.872+/-0.057 χ^2/NDF : 422275.2/19

Left In: 186.067+/-0.050 χ^2/NDF : 1224026.9/9

212.899+/-0.042 χ^2/NDF : 4719200.9/28

180.345+/-0.037 χ^2/NDF : 5476804.0/29

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug



Right In: 9.600 $\pm$ 12.273 χ^2 /NDF: 23.2/16

Left Out: -17.102 $\pm$ 10.079 χ^2 /NDF: 8.8/11

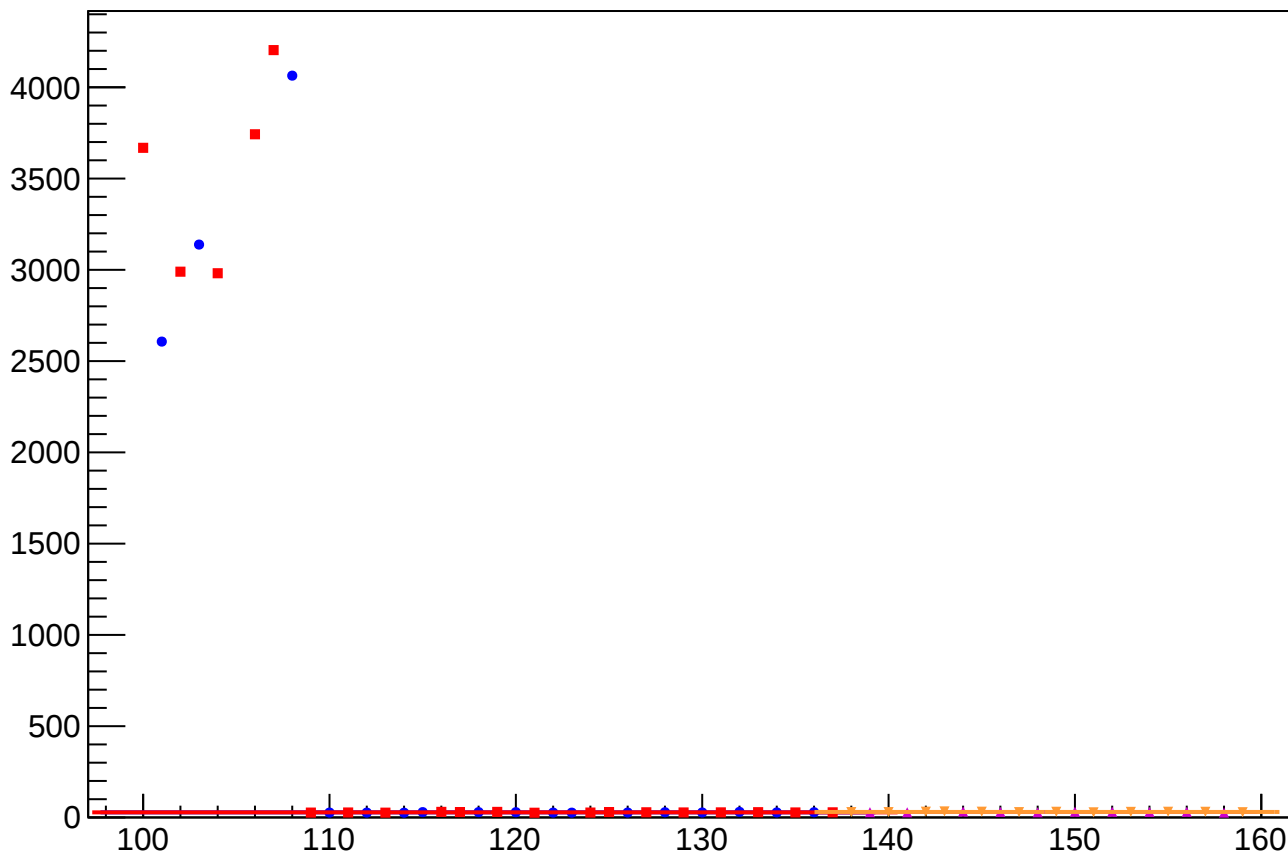
Right Out: -28.128 $\pm$ 12.282 χ^2 /NDF: 18.5/19

Left In: -1.182 $\pm$ 10.497 χ^2 /NDF: 6.6/9

-6.346 $\pm$ 7.789 χ^2 /NDF: 34.8/28

-12.556 $\pm$ 7.980 χ^2 /NDF: 27.8/29

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug



Right In: 28.023+/-0.009 χ^2/NDF : 3027003.0/16

Left Out: 30.128+/-0.007 χ^2/NDF : 38258.1/11

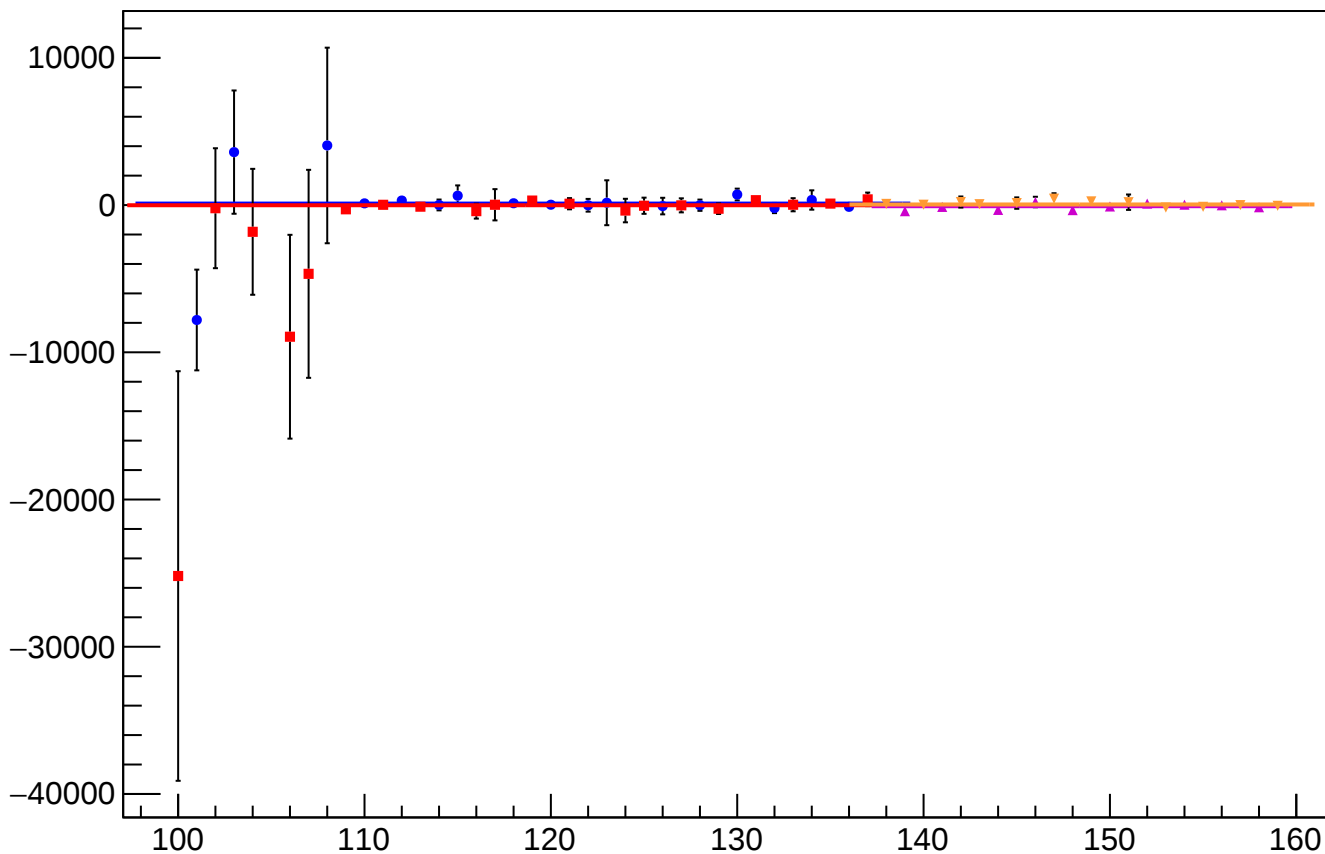
Right Out: 27.929+/-0.009 χ^2/NDF : 3479867.7/19

Left In: 29.856+/-0.007 χ^2/NDF : 58931.3/9

29.280+/-0.006 χ^2/NDF : 3100410.4/28

29.042+/-0.006 χ^2/NDF : 3567239.7/29

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: 41.338 $\pm$ 81.809 χ^2 /NDF: 3.5/11

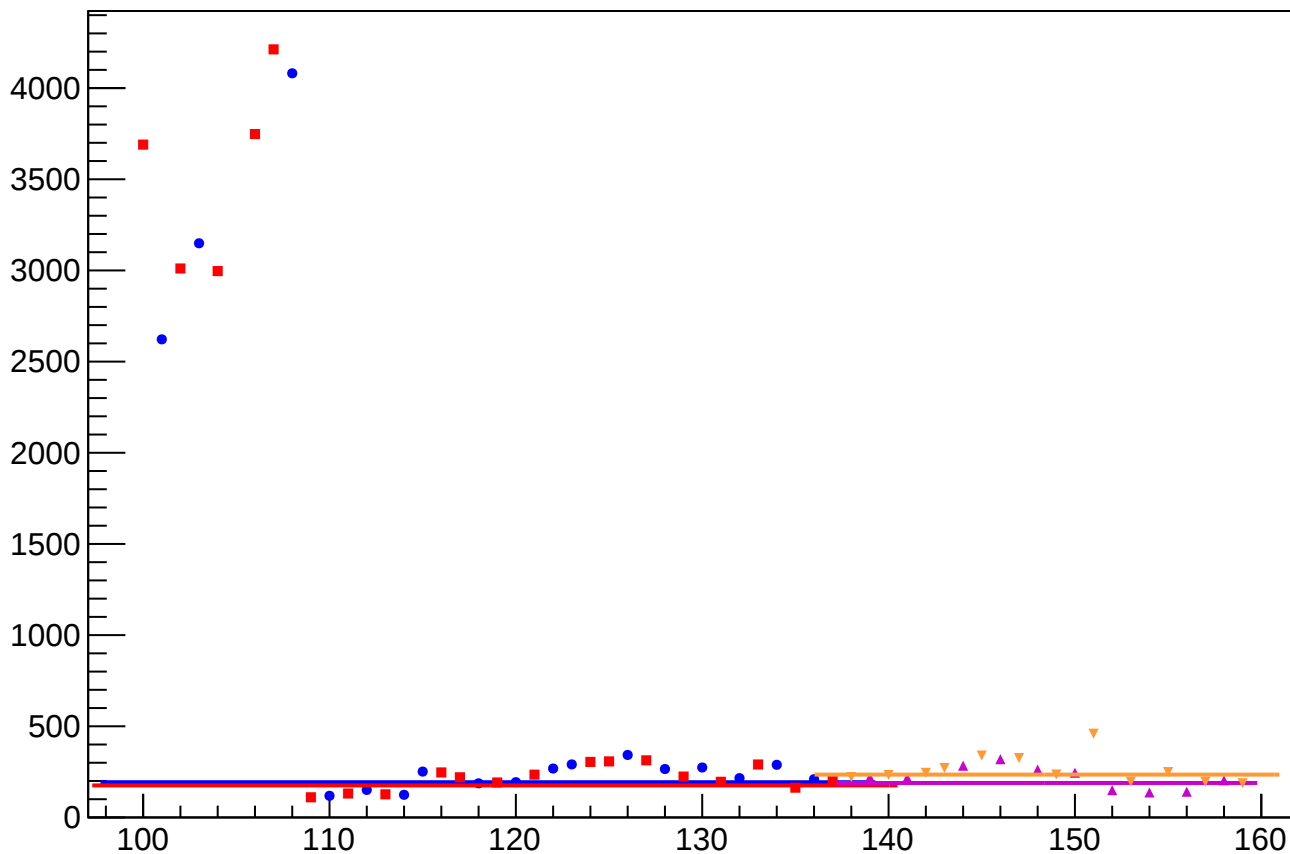
Right Out: -11.037 $\pm$ 81.486 χ^2 /NDF: 12.3/19

Left In: -76.413 $\pm$ 71.417 χ^2 /NDF: 5.1/9

69.221 $\pm$ 60.040 χ^2 /NDF: 16.1/28

-48.012 $\pm$ 53.709 χ^2 /NDF: 17.7/29

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug



Right In: 193.190+/-0.063 χ^2/NDF : 3536123.5/16

Left Out: 235.037+/-0.058 χ^2/NDF : 881309.4/11

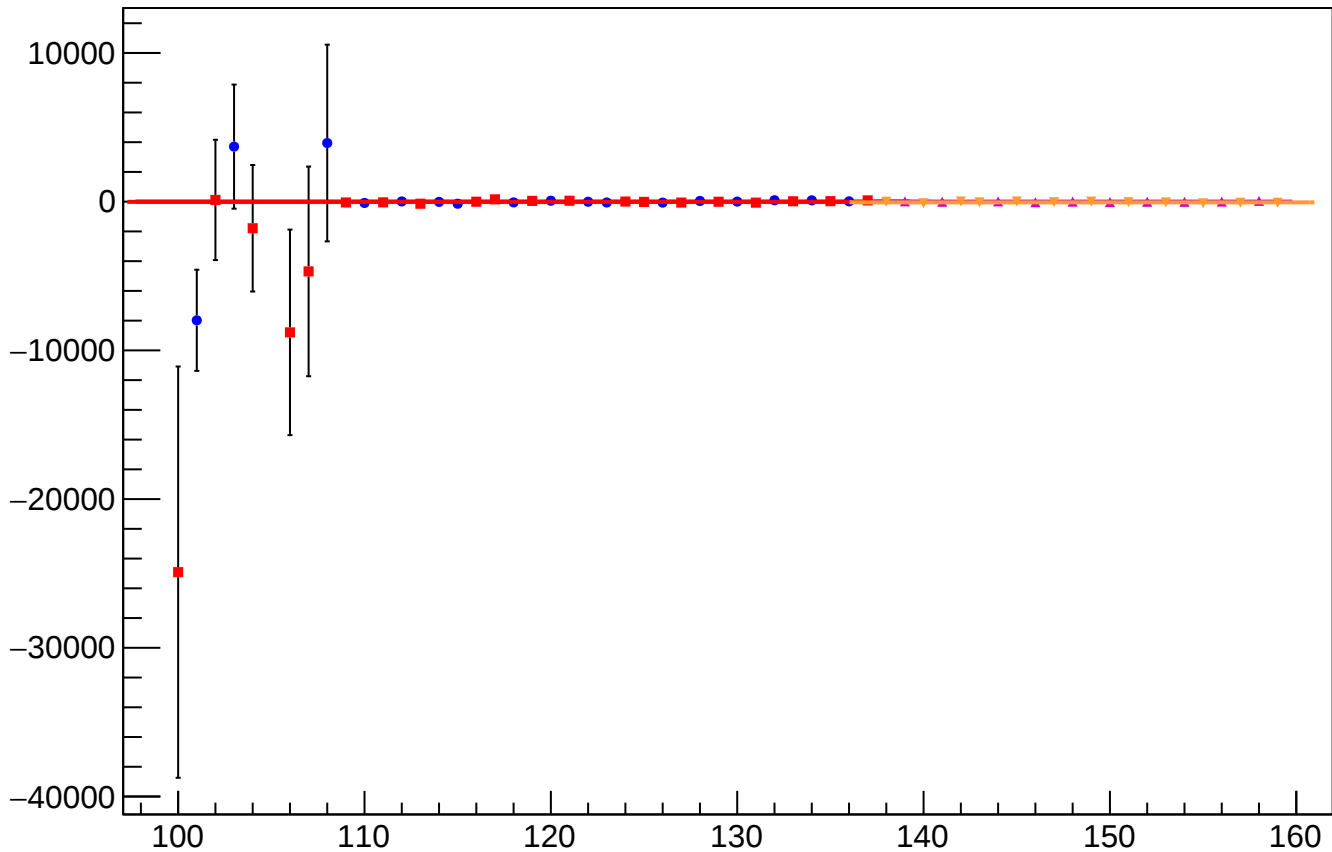
Right Out: 175.749+/-0.058 χ^2/NDF : 4168935.2/19

Left In: 189.130+/-0.050 χ^2/NDF : 1198004.8/9

215.729+/-0.042 χ^2/NDF : 4658879.2/28

183.317+/-0.038 χ^2/NDF : 5397440.1/29

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

-26.357+/-9.272 χ^2/NDF : 39.1/28

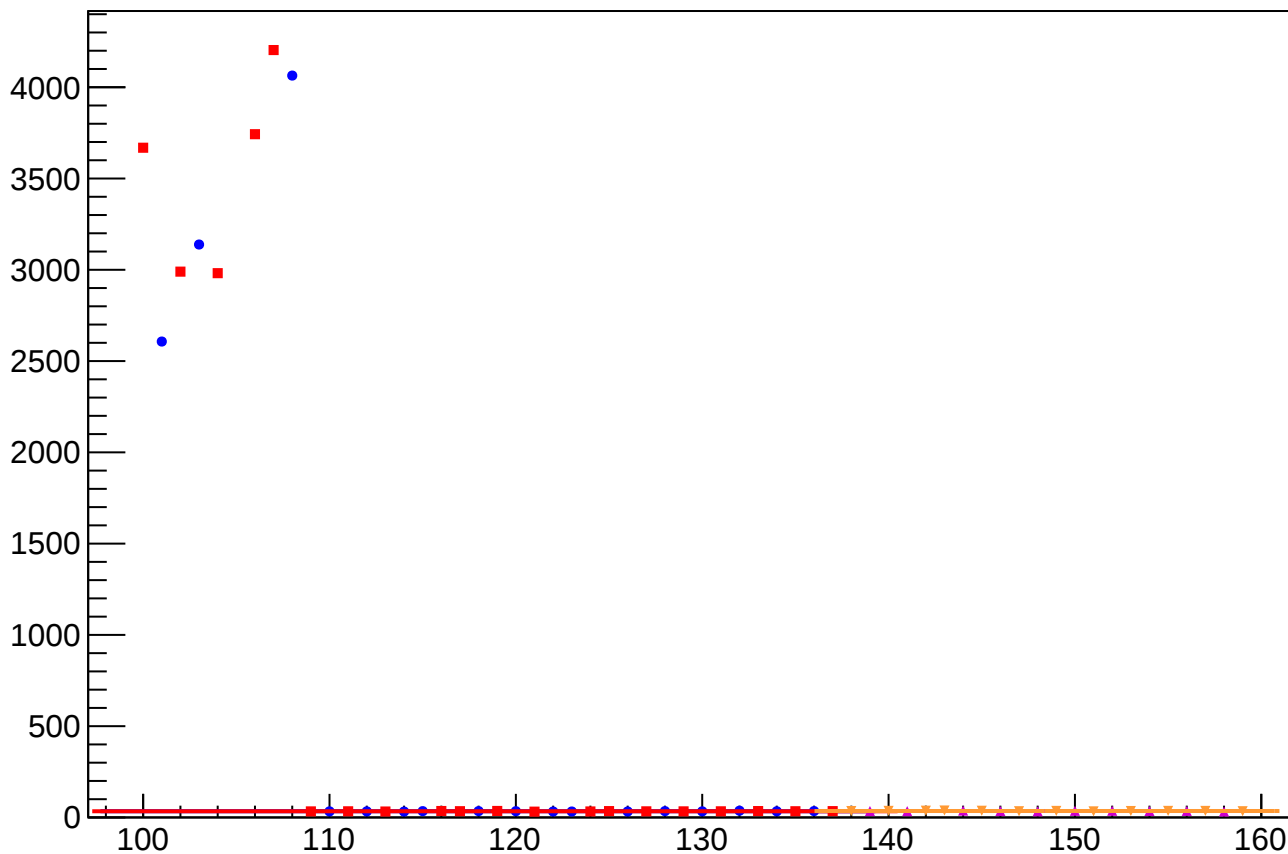
Left Out: -45.805+/-11.828 χ^2/NDF : 11.7/11

Right Out: -11.101+/-14.886 χ^2/NDF : 22.7/19

-1.710+/-9.523 χ^2/NDF : 27.7/29

Left In: 4.798+/-12.391 χ^2/NDF : 4.3/9

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug



Right In: 34.137 $\pm$ 0.011 χ^2 /NDF: 3006248.0/16

Left Out: 35.404 $\pm$ 0.008 χ^2 /NDF: 22047.8/11

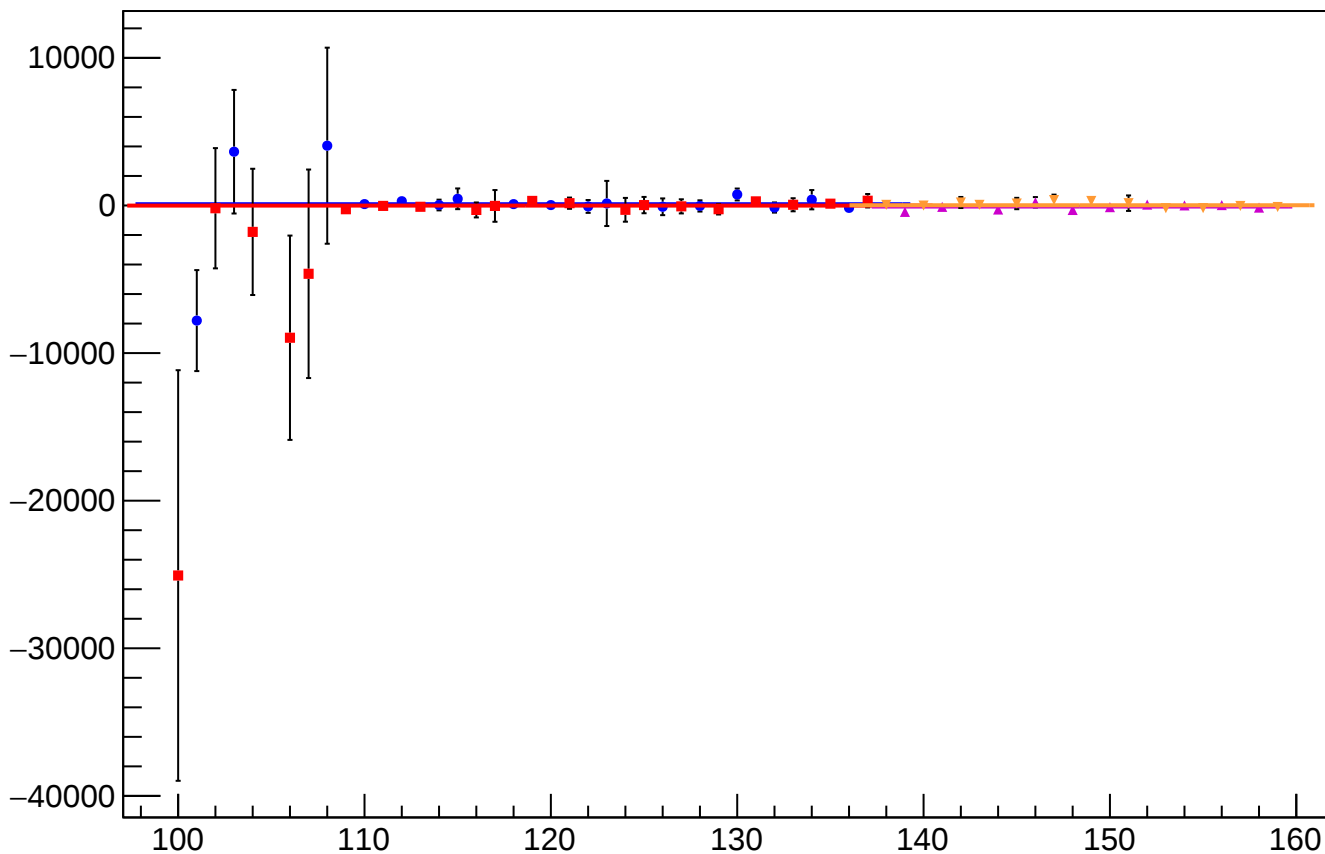
Right Out: 33.915 $\pm$ 0.011 χ^2 /NDF: 3451897.1/19

Left In: 35.312 $\pm$ 0.009 χ^2 /NDF: 24666.9/9

34.916 $\pm$ 0.007 χ^2 /NDF: 3037141.9/28

34.740 $\pm$ 0.007 χ^2 /NDF: 3486956.8/29

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: 16.306+/-81.530 χ^2/NDF : 4.2/11

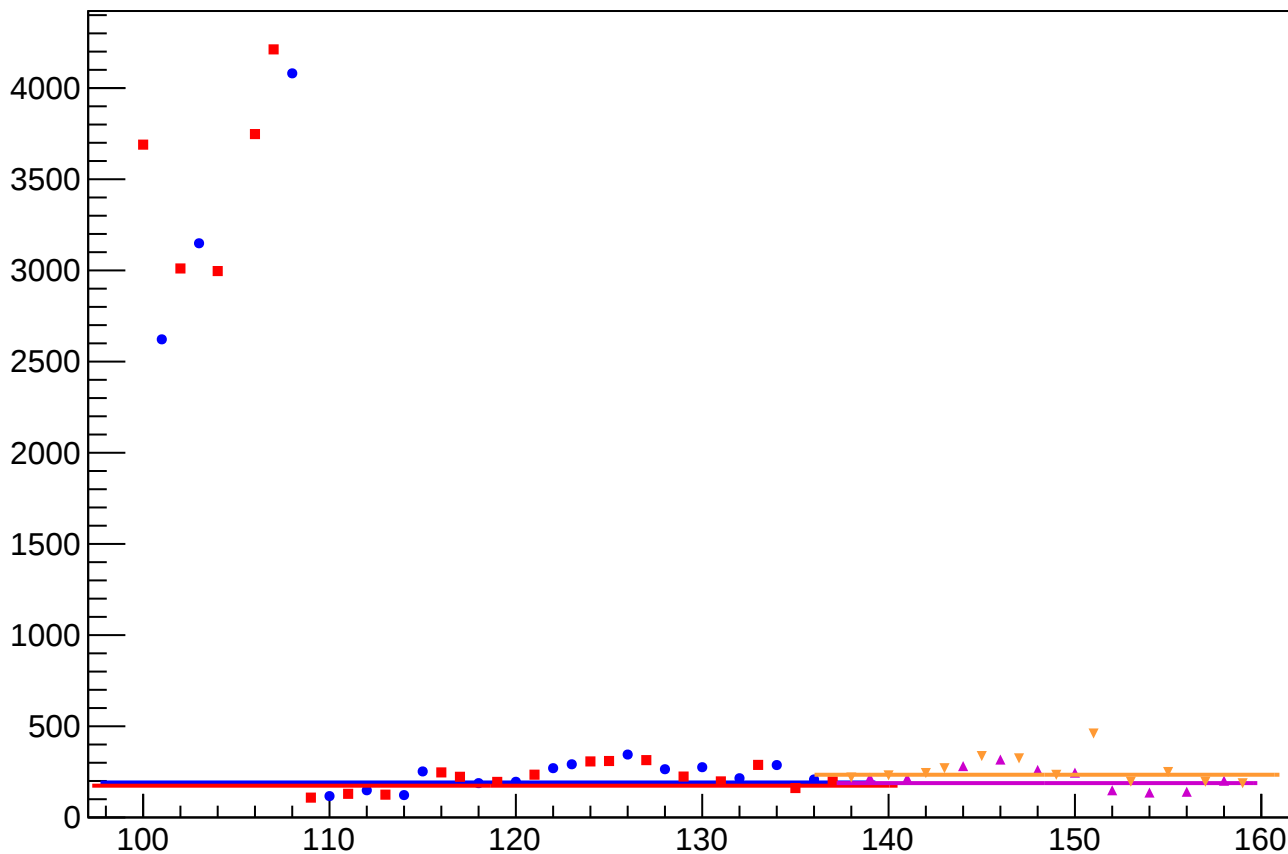
Right Out: -7.420+/-80.977 χ^2/NDF : 11.1/19

Left In: -72.271+/-71.130 χ^2/NDF : 4.6/9

48.537+/-59.790 χ^2/NDF : 16.9/28

-44.026+/-53.441 χ^2/NDF : 16.1/29

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 234.254+/-0.058 χ^2/NDF : 875021.2/11

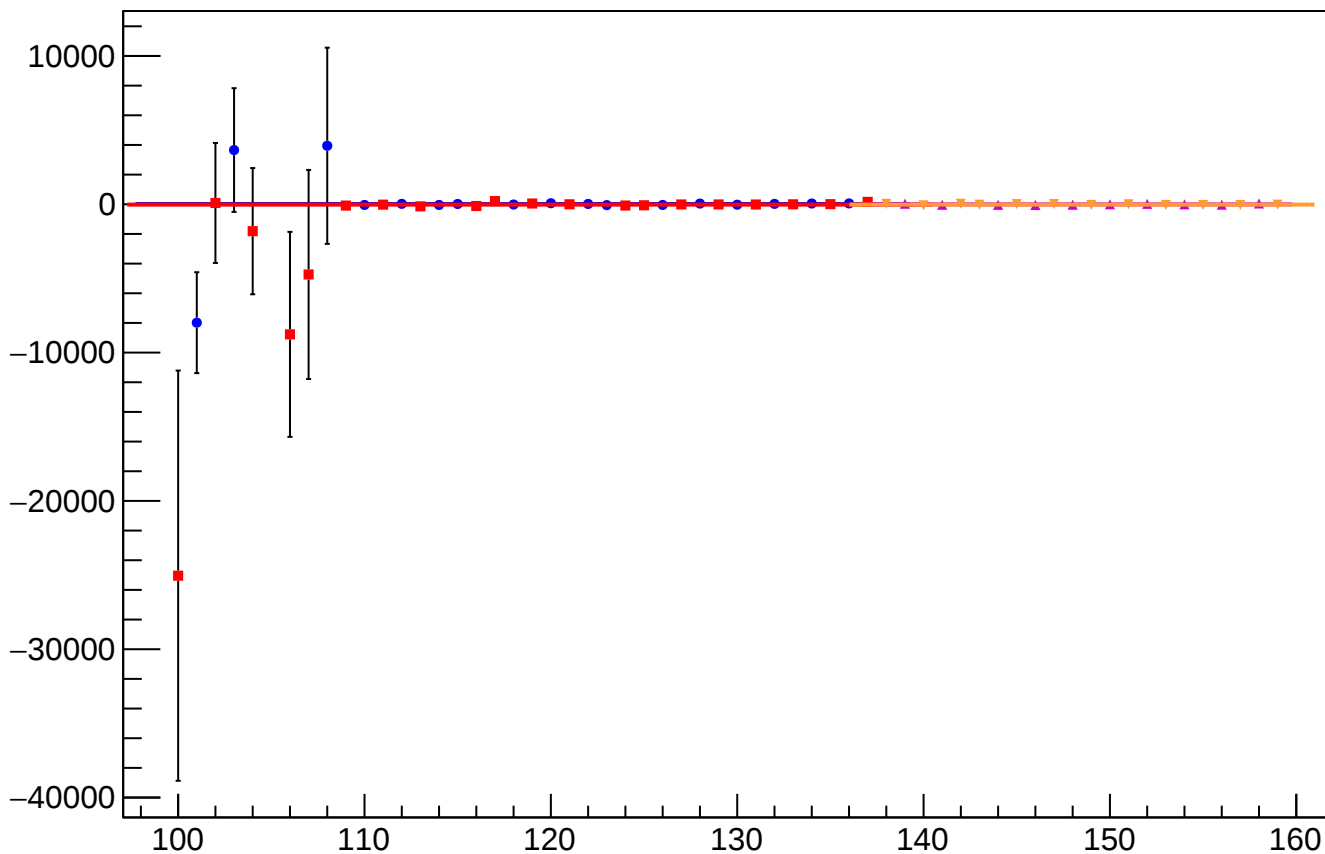
Right Out: 174.207+/-0.057 χ^2/NDF : 4215538.3/19

Left In: 188.389+/-0.050 χ^2/NDF : 1186053.4/9

214.670+/-0.042 χ^2/NDF : 4697780.1/28

182.212+/-0.038 χ^2/NDF : 5436220.5/29

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -21.204+/-10.761 χ^2/NDF : 8.8/11

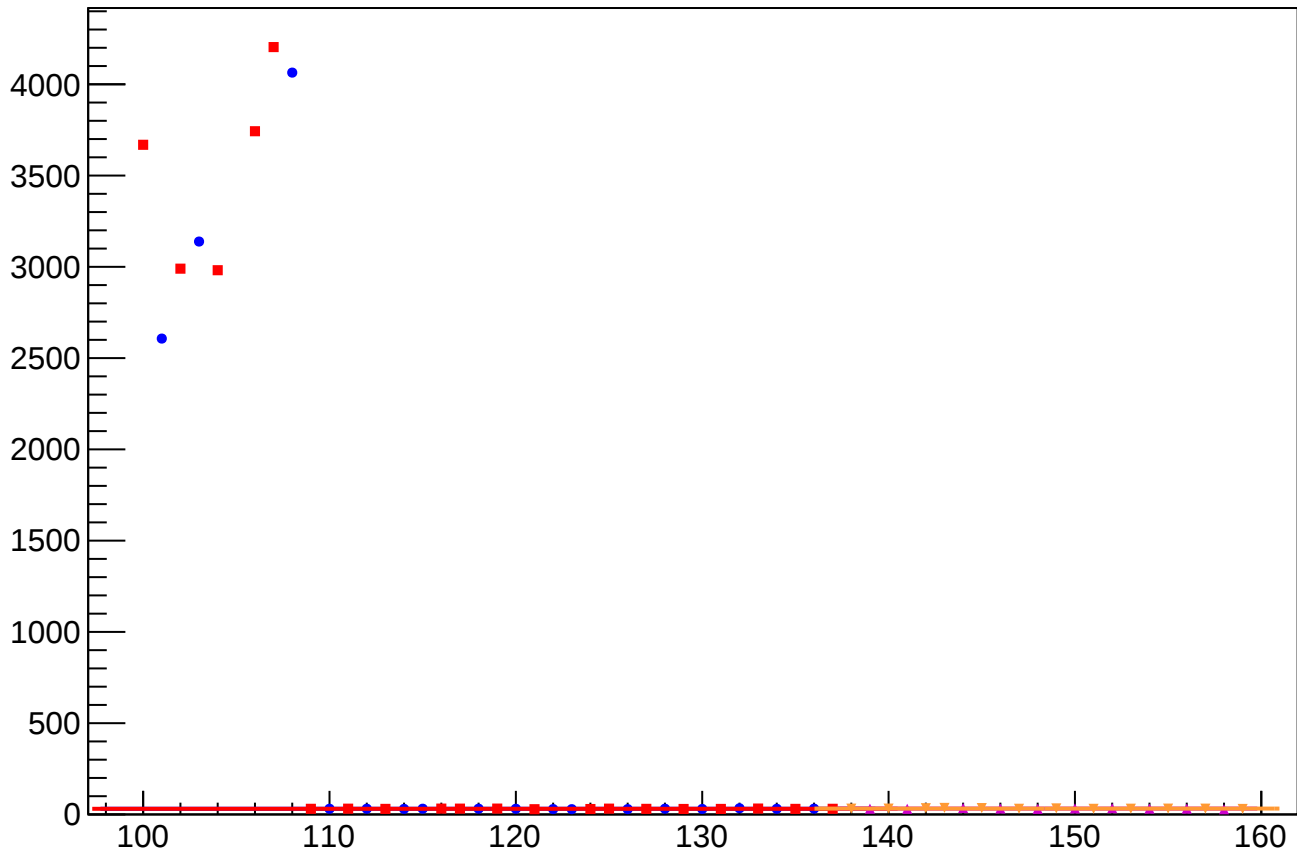
Right Out: -21.490+/-13.601 χ^2/NDF : 29.9/19

Left In: -4.859+/-11.245 χ^2/NDF : 9.1/9

-7.625+/-8.443 χ^2/NDF : 28.2/28

-11.612+/-8.667 χ^2/NDF : 39.9/29

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 31.127+/-0.010 χ^2/NDF : 3014425.9/16

Left Out: 32.174+/-0.008 χ^2/NDF : 40766.6/11

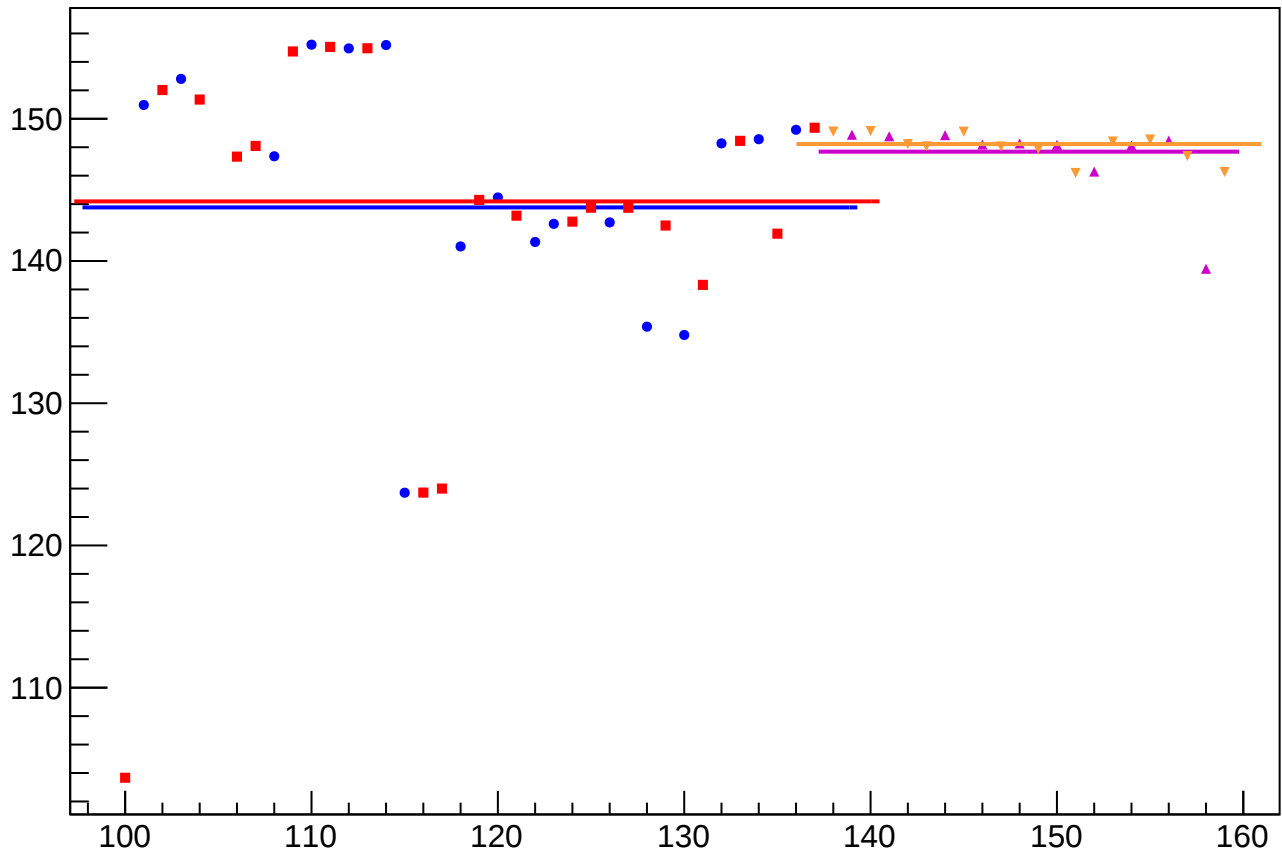
31.771+/-0.006 χ^2/NDF : 3062475.5/28

Right Out: 30.970+/-0.010 χ^2/NDF : 3459018.8/19

31.572+/-0.006 χ^2/NDF : 3518717.1/29

Left In: 31.982+/-0.008 χ^2/NDF : 53123.6/9

yield_bcm_an_ds_mean vs Slug



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.224 $\pm$ 0.000 χ^2 /NDF: 50372786.9/11

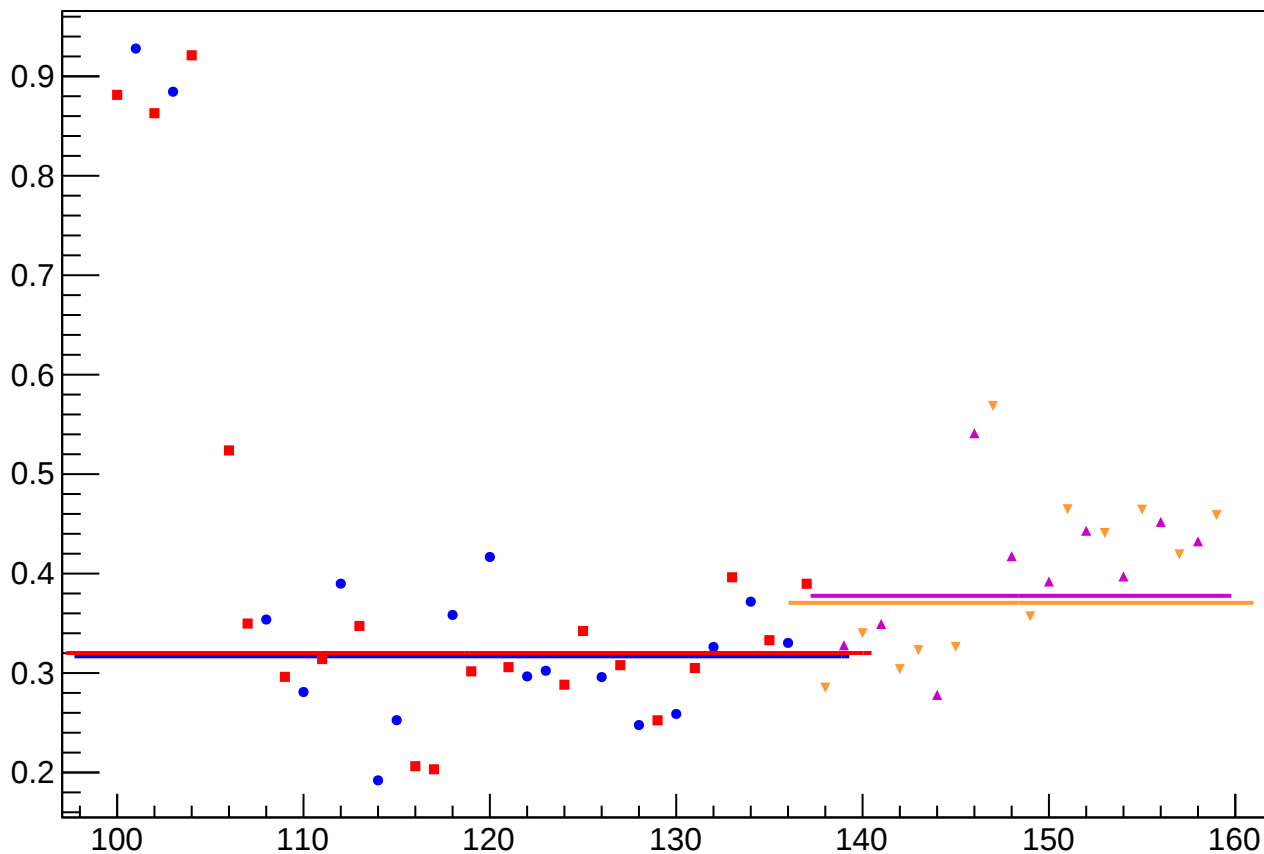
146.080 $\pm$ 0.000 χ^2 /NDF: 4155808413.1/28

Right Out: 144.192 $\pm$ 0.000 χ^2 /NDF: 4524049993.1/19

145.868 $\pm$ 0.000 χ^2 /NDF: 5177444652.3/29

Left In: 147.687 $\pm$ 0.000 χ^2 /NDF: 317231448.8/9

yield_bcm_an_ds_rms vs Slug



Right In: 0.317 ± 0.000 χ^2/NDF : 1278613.2/16

Left Out: 0.371 ± 0.000 χ^2/NDF : 655127.2/11

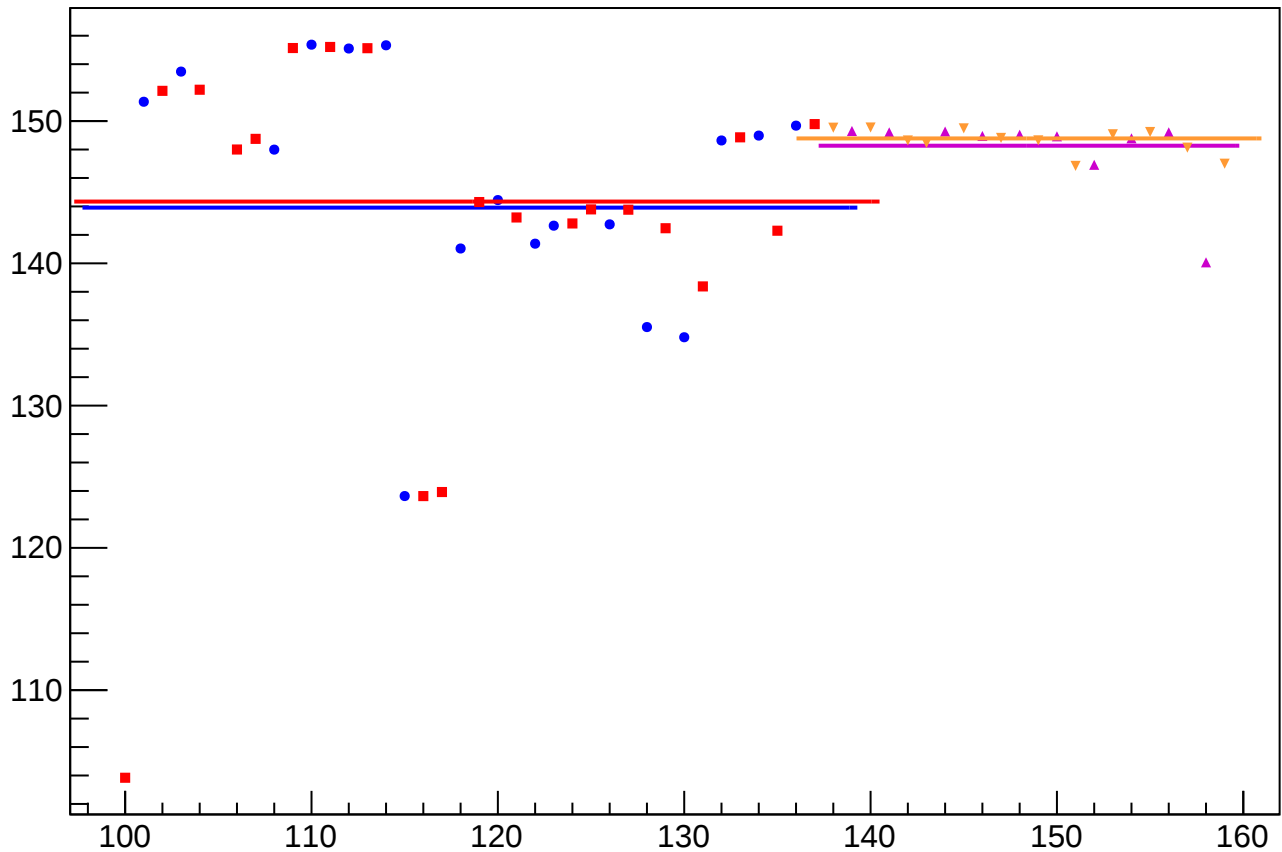
Right Out: 0.320 ± 0.000 χ^2/NDF : 1240600.2/19

Left In: 0.378 ± 0.000 χ^2/NDF : 517938.8/9

0.345 ± 0.000 χ^2/NDF : 2100601.8/28

0.348 ± 0.000 χ^2/NDF : 1940475.5/29

yield_bcm_an_ds3_mean vs Slug



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.780 $\pm$ 0.000 χ^2 /NDF: 39658163.0/11

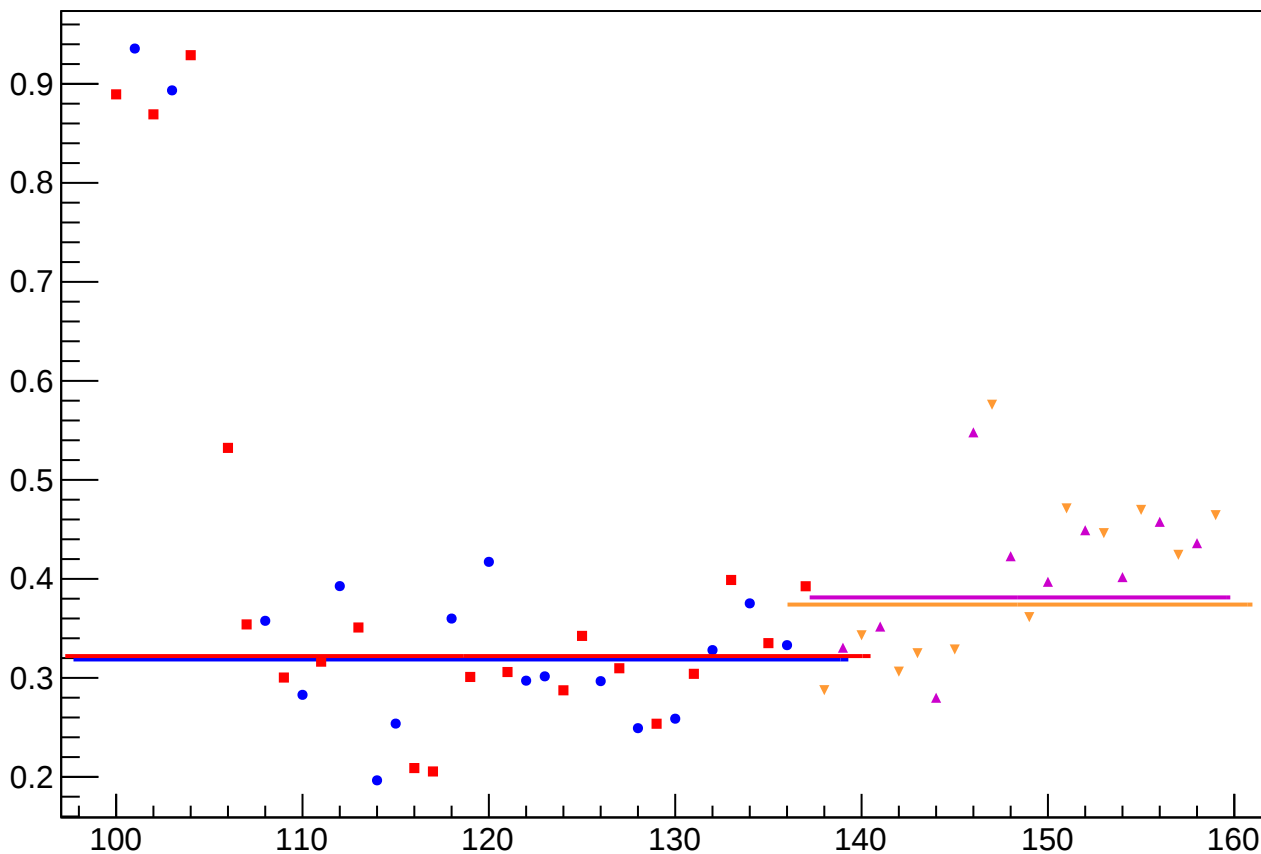
146.430 $\pm$ 0.000 χ^2 /NDF: 4297062077.9/28

Right Out: 144.342 $\pm$ 0.000 χ^2 /NDF: 4551365931.0/19

146.217 $\pm$ 0.000 χ^2 /NDF: 5274165841.6/29

Left In: 148.268 $\pm$ 0.000 χ^2 /NDF: 305353473.6/9

yield_bcm_an_ds3_rms vs Slug



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.374+/-0.000 χ^2/NDF : 668349.4/11

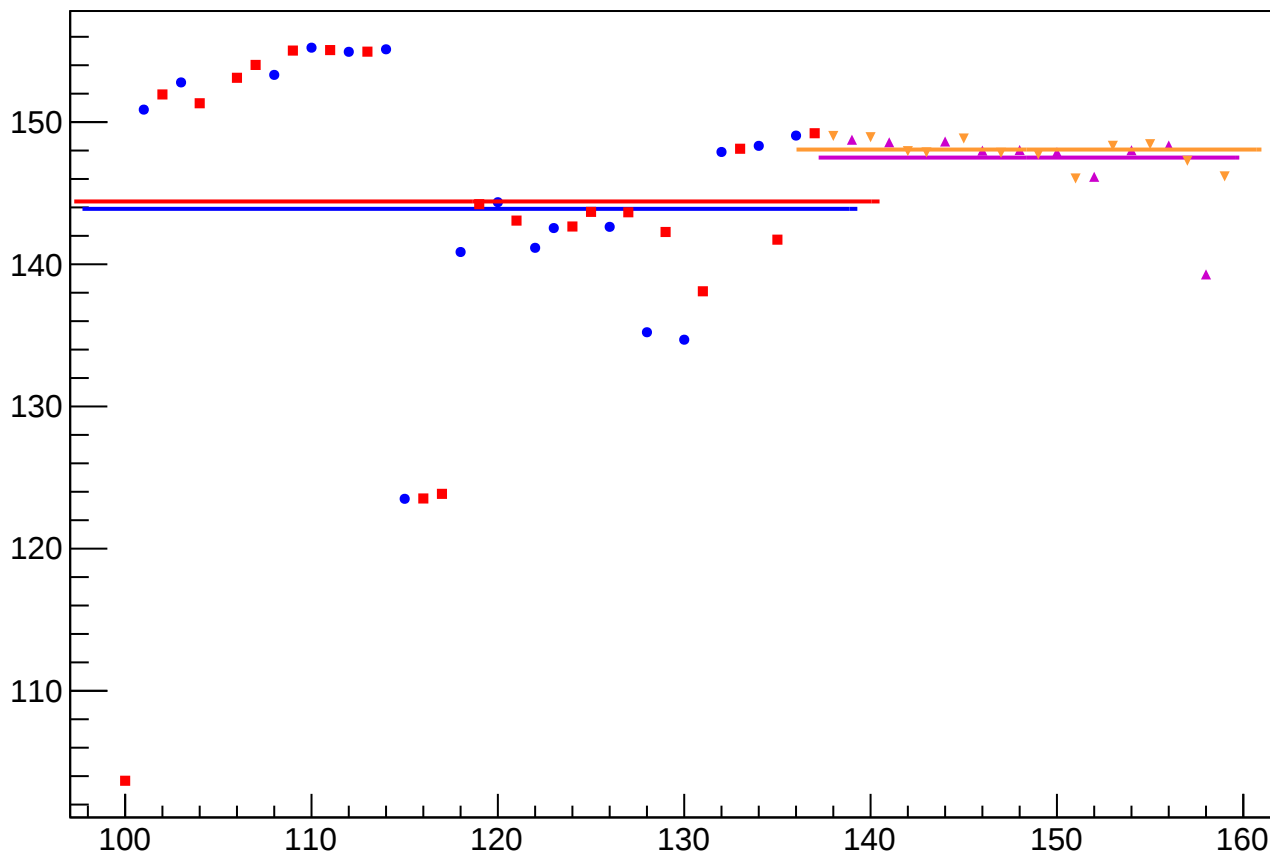
0.347+/-0.000 χ^2/NDF : 2124055.9/28

Right Out: 0.322+/-0.000 χ^2/NDF : 1243109.0/19

0.350+/-0.000 χ^2/NDF : 1962875.8/29

Left In: 0.381+/-0.000 χ^2/NDF : 529587.5/9

yield_bcm_an_us_mean vs Slug



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.070 $\pm$ 0.000 χ^2 /NDF: 48643618.8/11

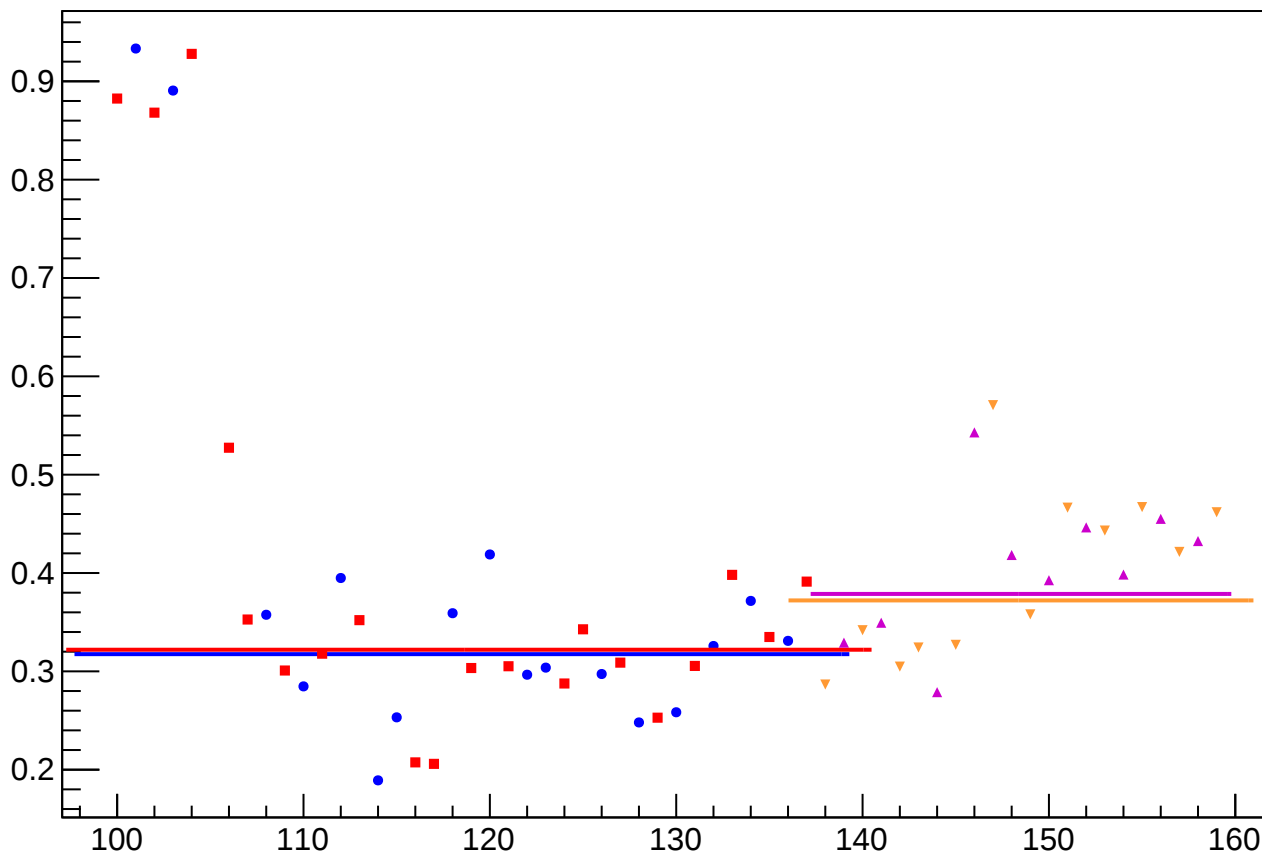
Right Out: 144.419 $\pm$ 0.000 χ^2 /NDF: 4820290476.6/19

Left In: 147.504 $\pm$ 0.000 χ^2 /NDF: 315427825.0/9

146.060 $\pm$ 0.000 χ^2 /NDF: 4297381067.5/28

145.902 $\pm$ 0.000 χ^2 /NDF: 5395504285.3/29

yield_bcm_an_us_rms vs Slug



Right In: 0.317+/-0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.372+/-0.000 χ^2/NDF : 658265.4/11

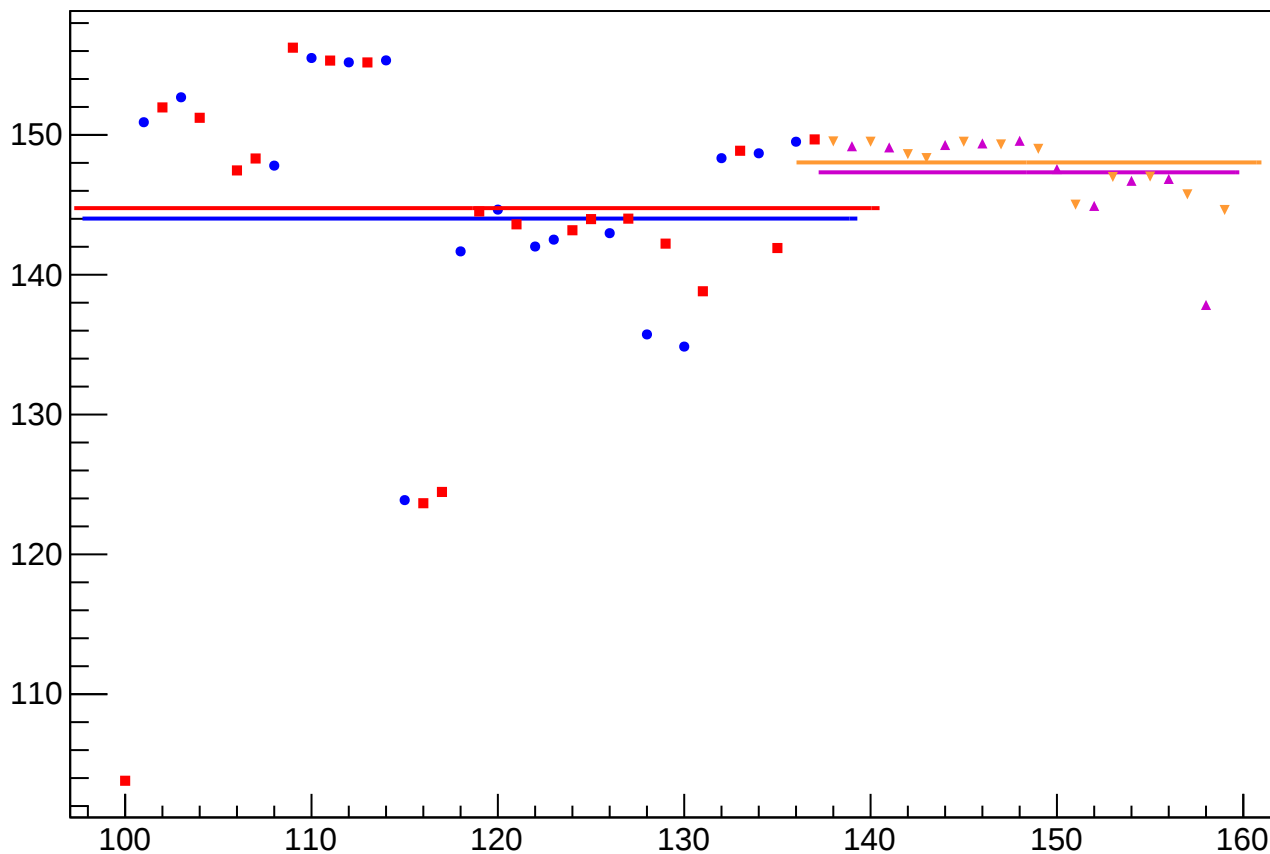
Right Out: 0.322+/-0.000 χ^2/NDF : 1243703.4/19

Left In: 0.379+/-0.000 χ^2/NDF : 520871.9/9

0.346+/-0.000 χ^2/NDF : 2122619.6/28

0.349+/-0.000 χ^2/NDF : 1940288.4/29

yield_bcm_dg_us_mean vs Slug



Right In: 144.018+/-0.000 χ^2/NDF : 3238525527.6/16

Left Out: 148.033+/-0.000 χ^2/NDF :155450819.9/11

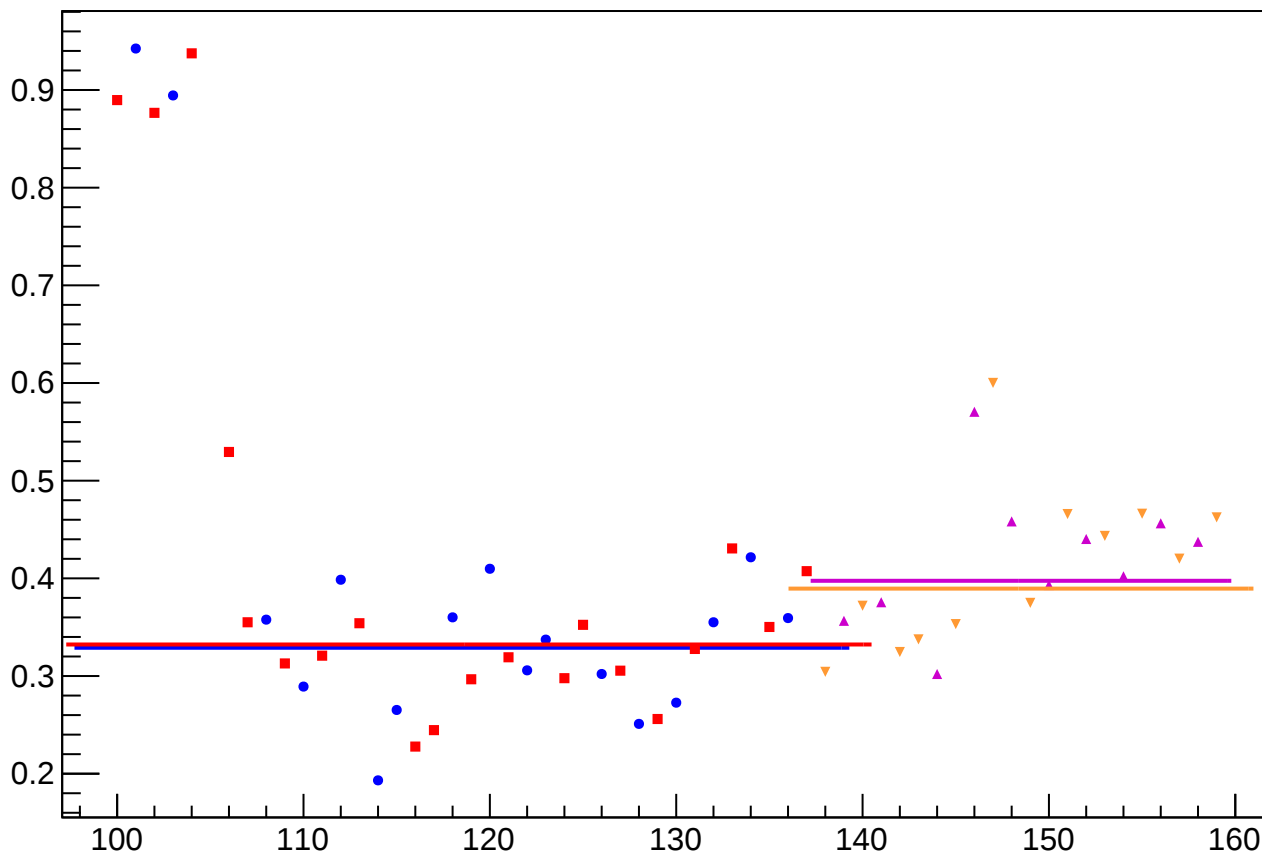
Right Out: 144.764+/-0.000 χ^2/NDF : 4098462011.9/19

Left In: 147.325+/-0.000 χ^2/NDF :477934860.0/9

146.083+/-0.000 χ^2/NDF : 3820162478.9/28

145.976+/-0.000 χ^2/NDF : 4741983458.0/29

yield_bcm_dg_us_rms vs Slug



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.390+/-0.000 χ^2/NDF : 524785.8/11

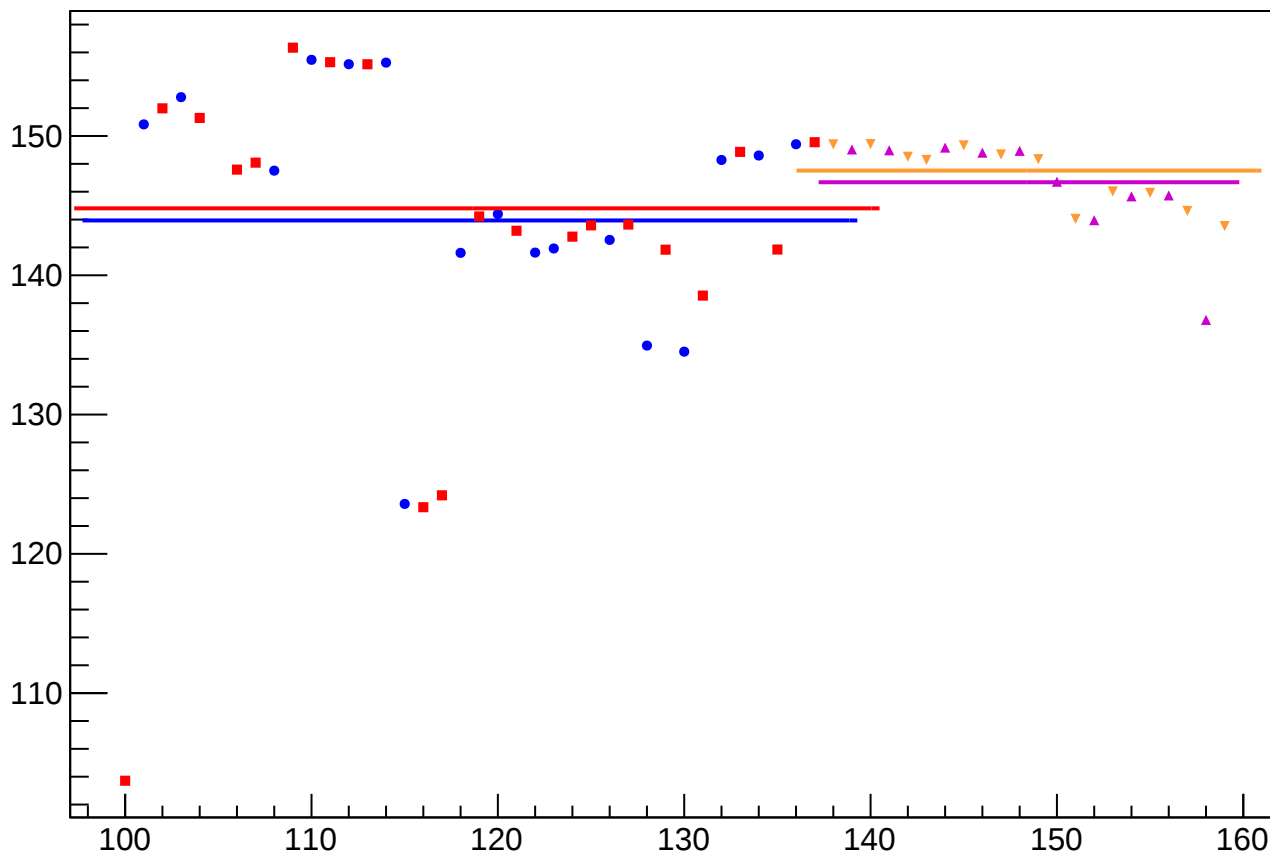
Right Out: 0.332+/-0.000 χ^2/NDF : 1191637.2/19

Left In: 0.398+/-0.000 χ^2/NDF : 410811.4/9

0.360+/-0.000 χ^2/NDF : 1994737.6/28

0.363+/-0.000 χ^2/NDF : 1817173.6/29

yield_bcm_dg_ds_mean vs Slug



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 147.516 $\pm$ 0.000 χ^2 /NDF:230978707.2/11

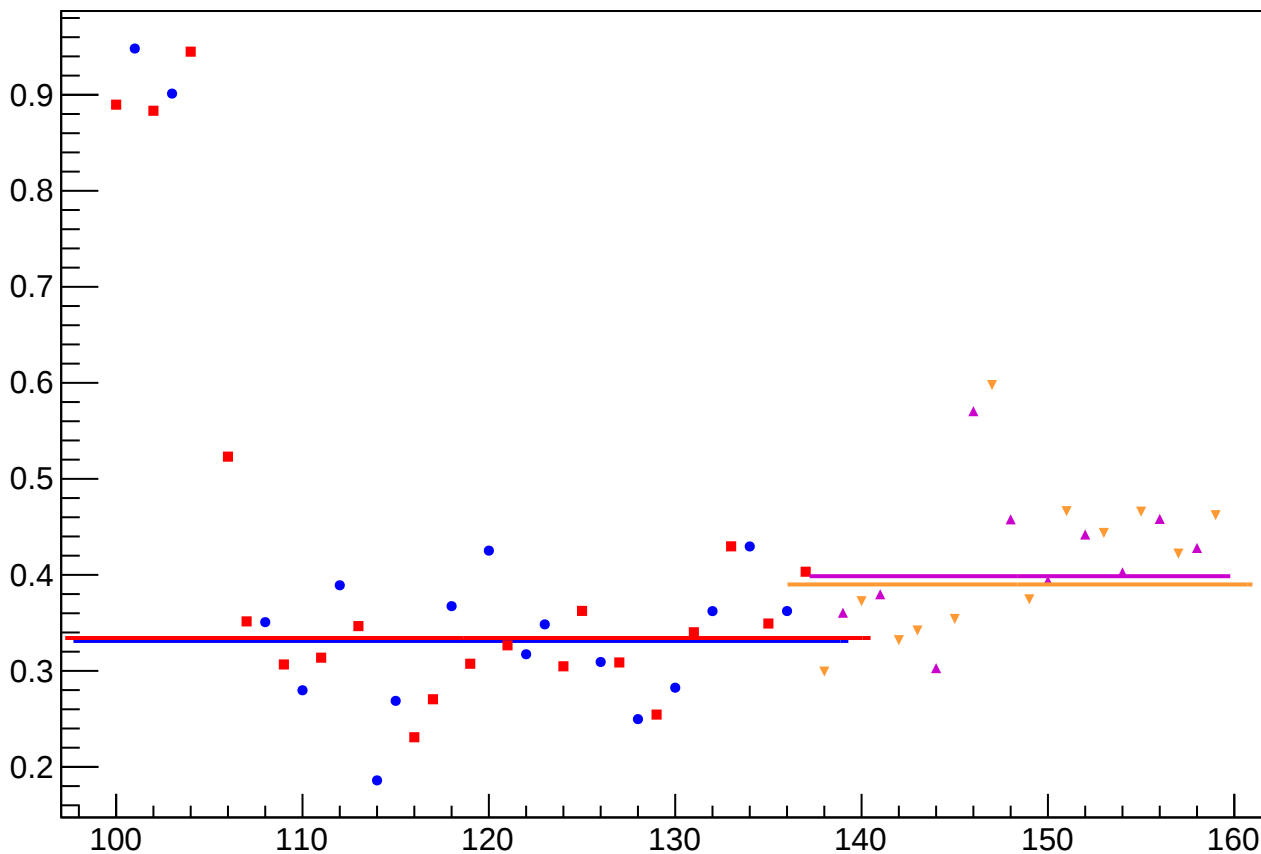
Right Out: 144.806 $\pm$ 0.000 χ^2 /NDF: 4139087143.3/19

Left In: 146.681 $\pm$ 0.000 χ^2 /NDF:578527714.8/9

145.790 $\pm$ 0.000 χ^2 /NDF: 3945125289.5/28

145.696 $\pm$ 0.000 χ^2 /NDF: 4805489316.3/29

yield_bcm_dg_ds_rms vs Slug



Right In: 0.331 ± 0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.390 ± 0.000 χ^2/NDF : 524555.0/11

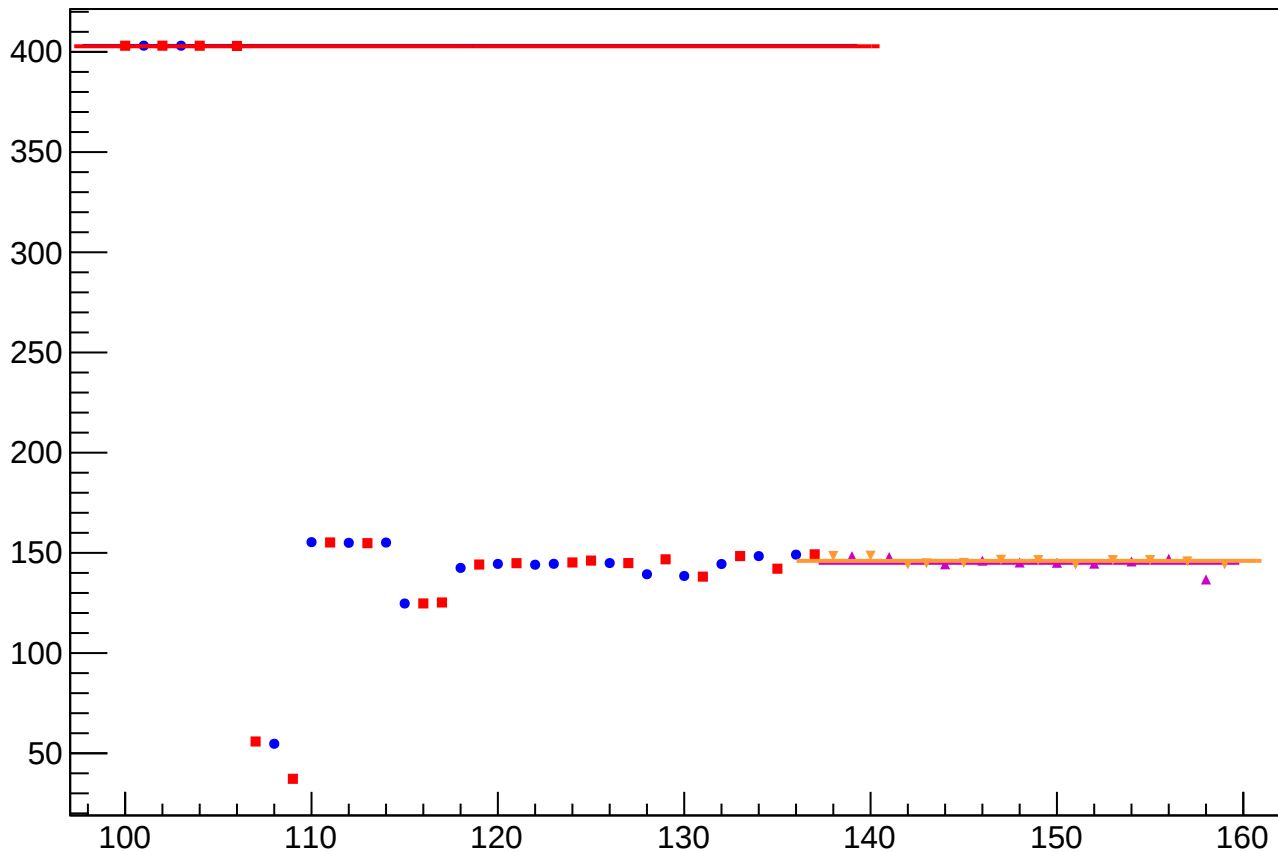
Right Out: 0.334 ± 0.000 χ^2/NDF : 1176170.4/19

Left In: 0.399 ± 0.000 χ^2/NDF : 397133.5/9

0.362 ± 0.000 χ^2/NDF : 2001356.4/28

0.365 ± 0.000 χ^2/NDF : 1780506.9/29

yield_cav4bQ_mean vs Slug



Right In: 402.957+/-0.000 χ^2/NDF : 1096710296821.6/16

Left Out: 146.022+/-0.000 χ^2/NDF : 35089640.6/11

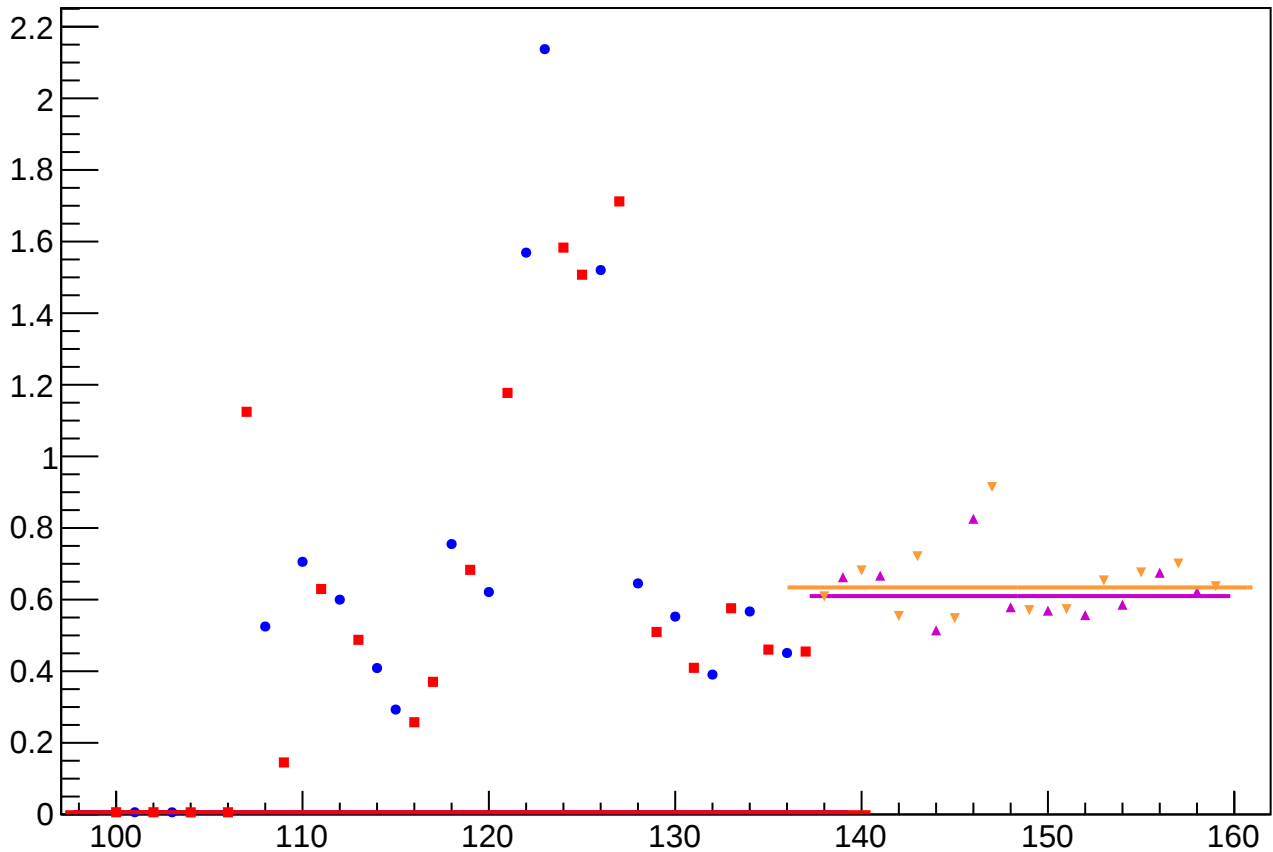
Right Out: 402.797+/-0.000 χ^2/NDF : 3122752044607.2/19

Left In: 145.052+/-0.000 χ^2/NDF : 125041541.6/9

402.838+/-0.000 χ^2/NDF : 2049017545653.3/28

402.692+/-0.000 χ^2/NDF : 4072761400058.4/29

yield_cav4bQ_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.634+/-0.000 χ^2/NDF :184296.1/11

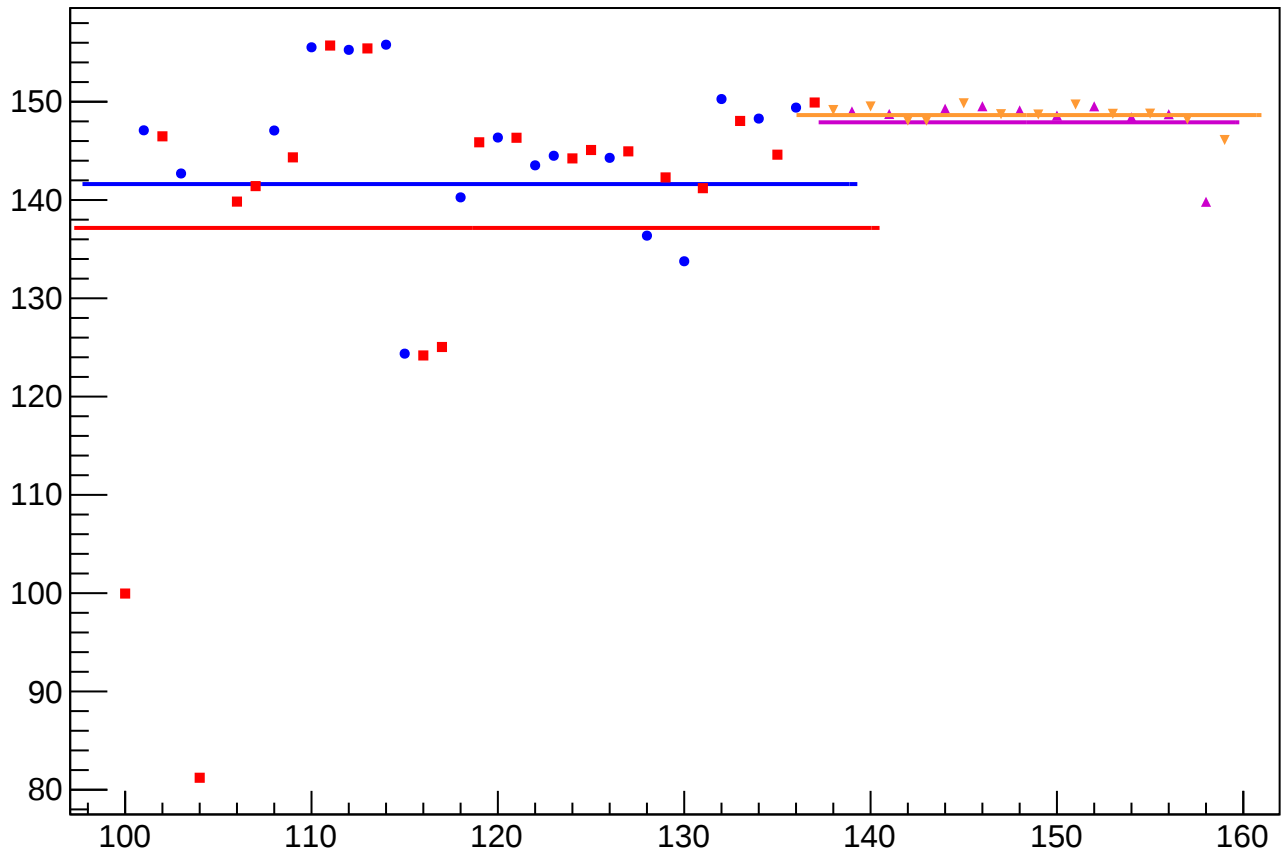
0.007+/-0.000 χ^2/NDF : 20712028.0/28

Right Out: 0.006+/-0.000 χ^2/NDF : 9277290.2/19

0.007+/-0.000 χ^2/NDF : 19848398.0/29

Left In: 0.610+/-0.000 χ^2/NDF :153899.3/9

yield_cav4cQ_mean vs Slug



Right In: 141.622+/-0.000 χ^2/NDF : 982037737.7/16

Left Out: 148.642+/-0.000 χ^2/NDF : 28334346.2/11

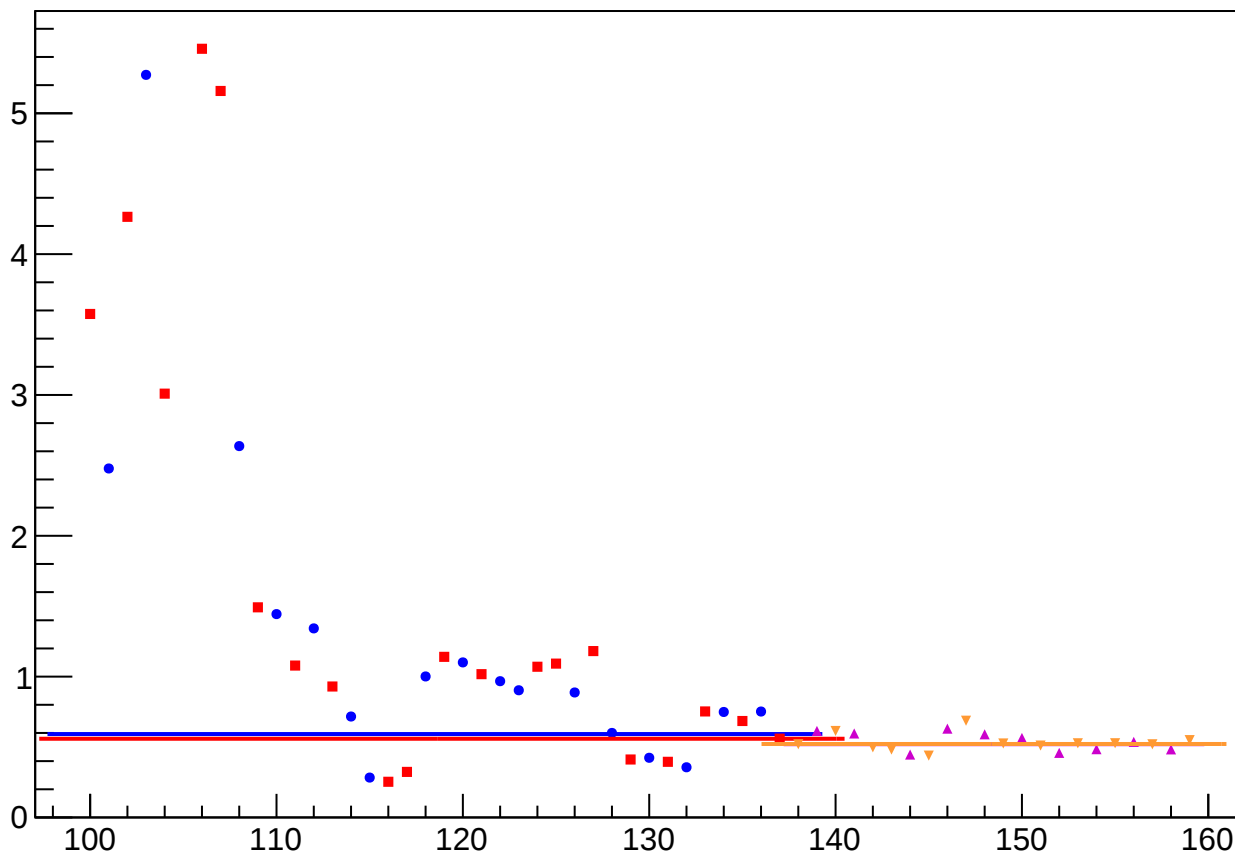
146.786+/-0.000 χ^2/NDF : 1377183667.5/28

Right Out: 137.160+/-0.000 χ^2/NDF : 1365742338.8/19

144.696+/-0.000 χ^2/NDF : 2486657646.5/29

Left In: 147.906+/-0.000 χ^2/NDF : 234007925.7/9

yield_cav4cQ_rms vs Slug



Right In: 0.592 ± 0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.522 ± 0.000 χ^2/NDF : 168146.0/11

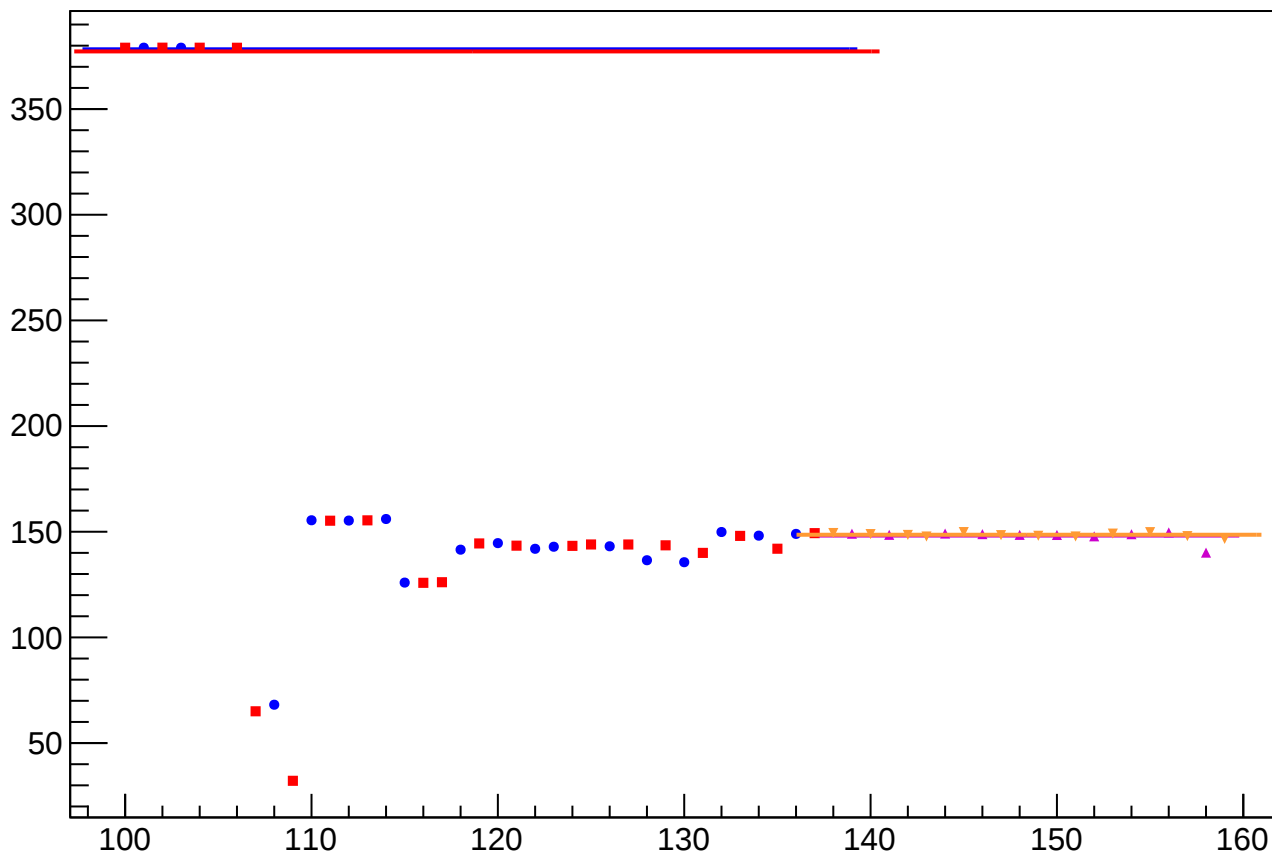
Right Out: 0.559 ± 0.000 χ^2/NDF : 4719868.1/19

Left In: 0.520 ± 0.000 χ^2/NDF : 201071.7/9

0.540 ± 0.000 χ^2/NDF : 3763948.2/28

0.532 ± 0.000 χ^2/NDF : 4943868.7/29

yield_cav4dQ_mean vs Slug



Right In: 378.281+/-0.000 χ^2/NDF : 2512261599188.1/16

Left Out: 148.577+/-0.000 χ^2/NDF : 39551078.1/11

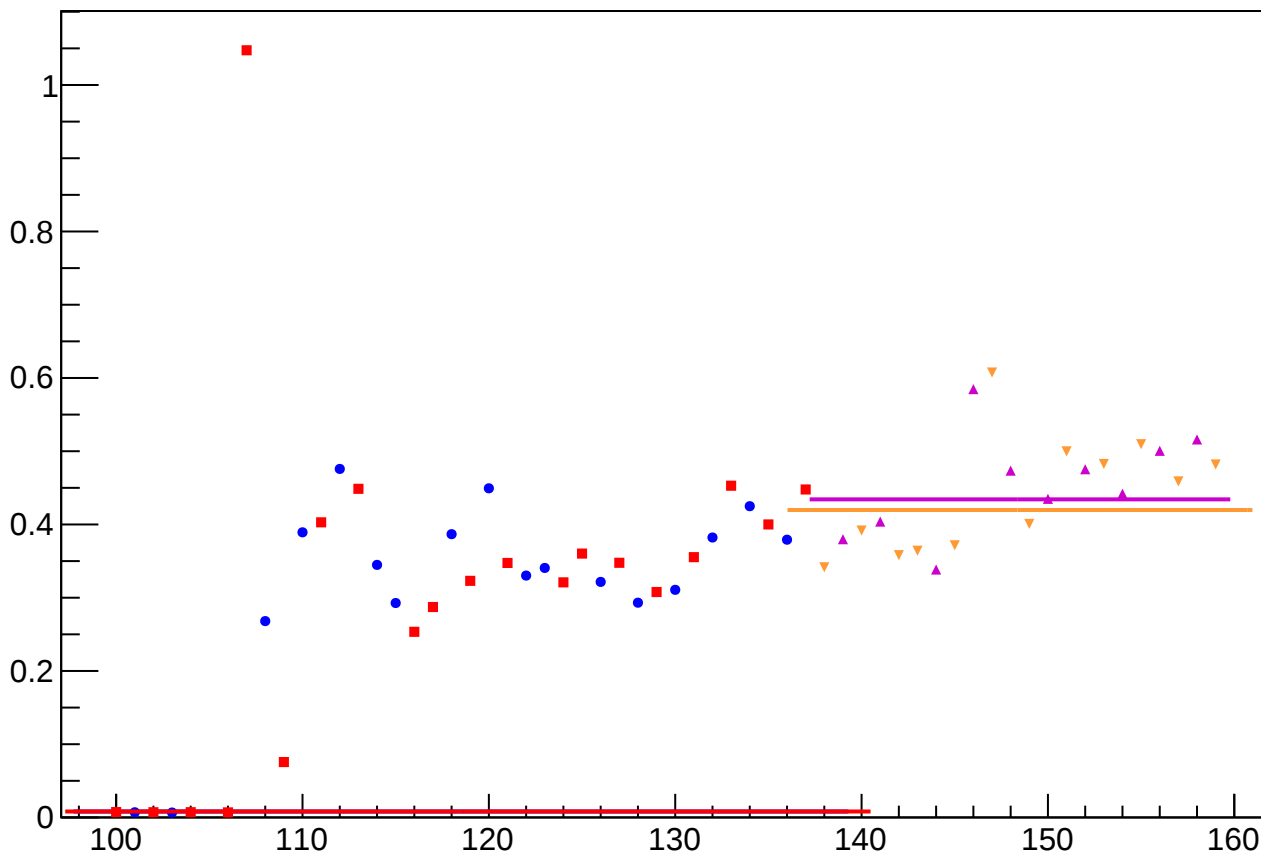
Right Out: 377.282+/-0.000 χ^2/NDF : 8306405788315.4/19

Left In: 148.189+/-0.000 χ^2/NDF : 206092159.8/9

377.464+/-0.000 χ^2/NDF : 5014005660706.2/28

376.670+/-0.000 χ^2/NDF : 10434086534677.2/2

yield_cav4dQ_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.420 $\pm$ 0.000 χ^2 /NDF:455678.4/11

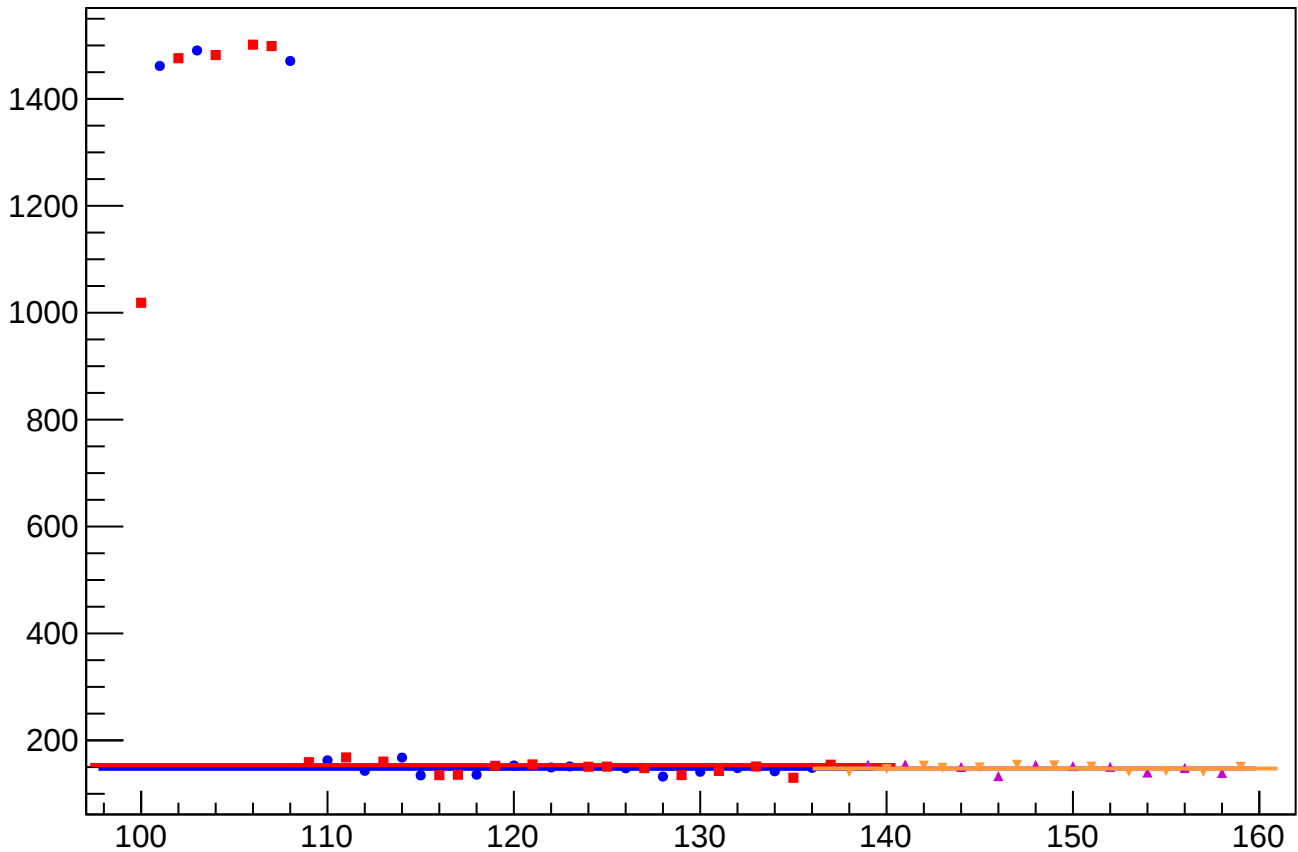
Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9601959.4/19

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:363552.2/9

0.010 $\pm$ 0.000 χ^2 /NDF: 26409537.7/28

0.009 $\pm$ 0.000 χ^2 /NDF: 24687008.8/29

yield_bcm0l02_mean vs Slug



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 147.286+/-0.000 χ^2/NDF : 215532393.2/11

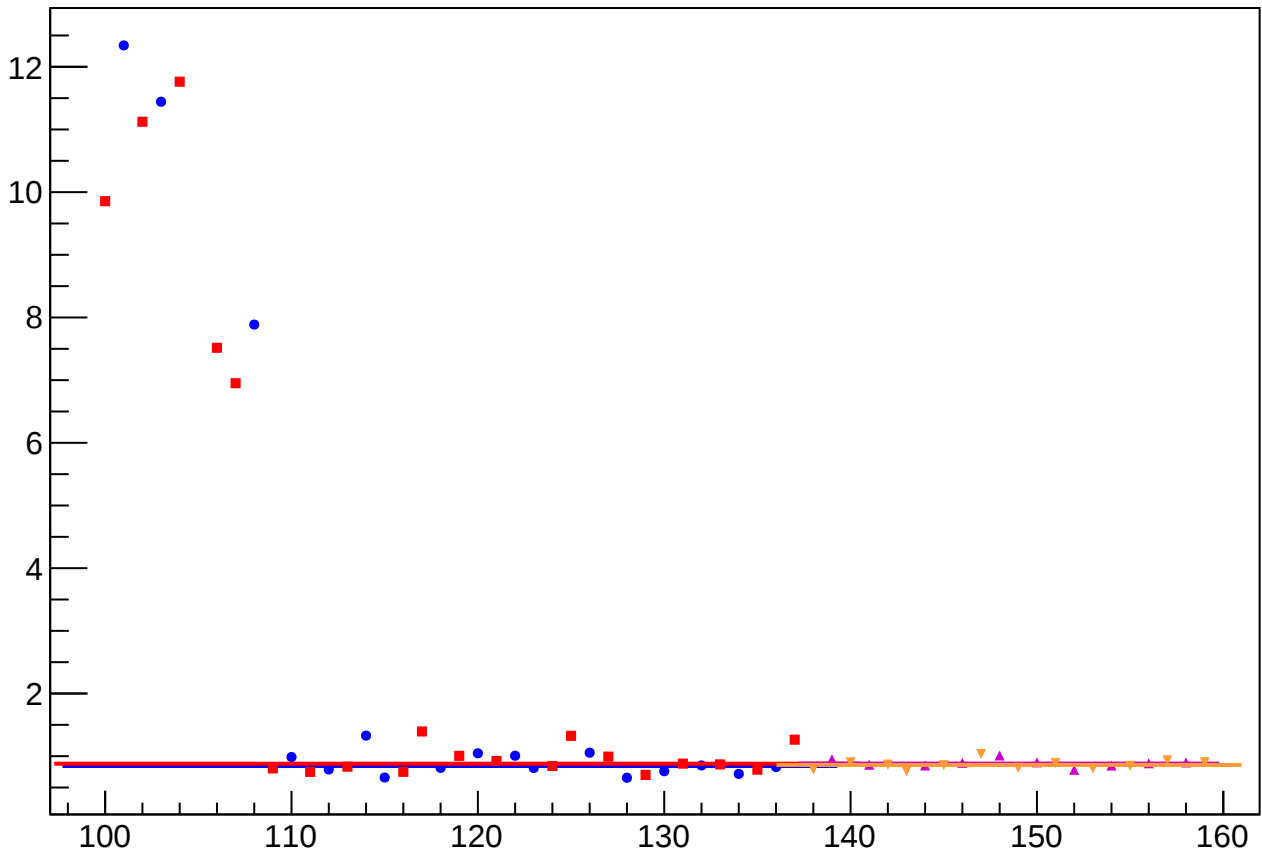
147.082+/-0.000 χ^2/NDF : 24567485833.7/28

Right Out: 153.818+/-0.000 χ^2/NDF : 33744777744.4/19

149.882+/-0.000 χ^2/NDF : 34306269505.4/29

Left In: 147.378+/-0.000 χ^2/NDF : 426868587.4/9

yield_bcm0l02_rms vs Slug



Right In: 0.844 ± 0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.860 ± 0.000 χ^2/NDF : 86253.6/11

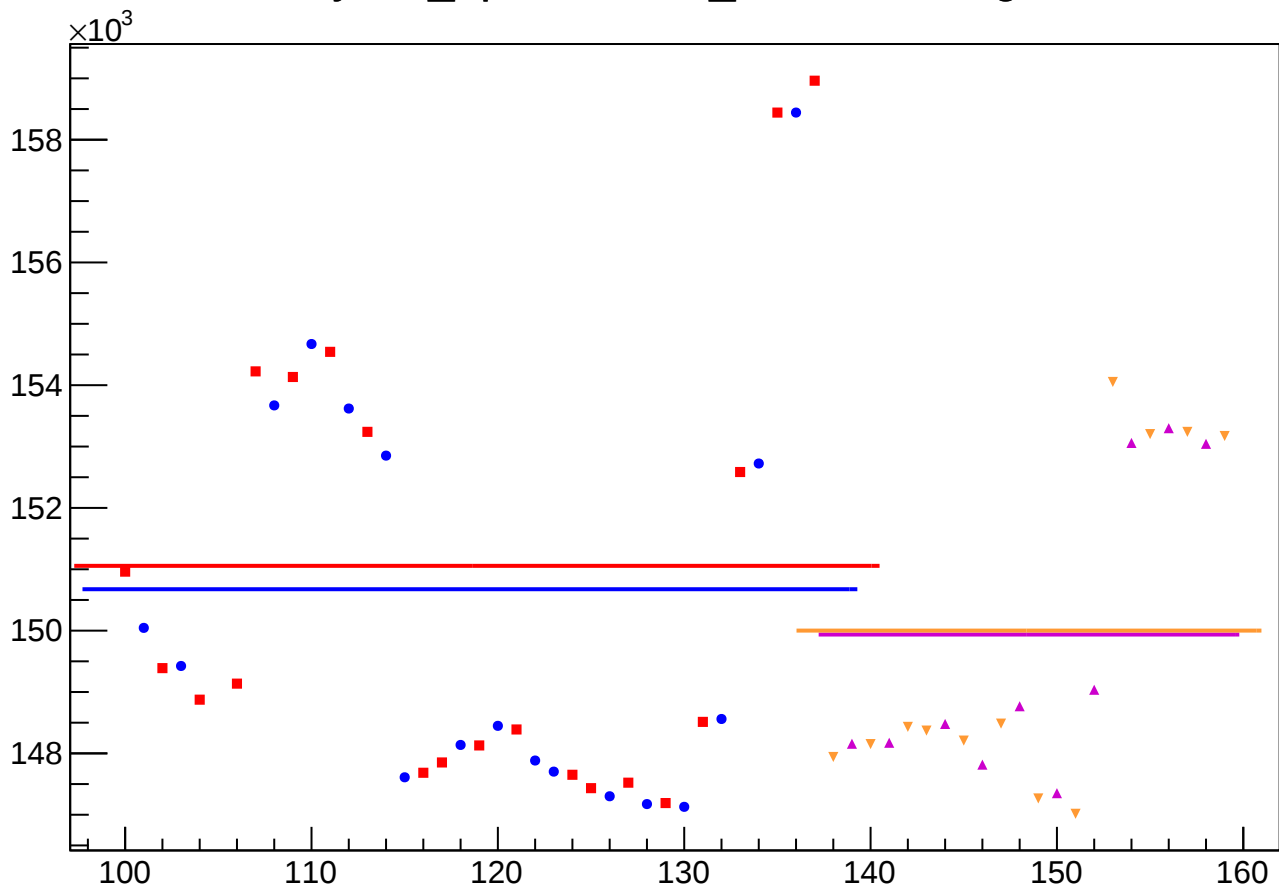
Right Out: 0.880 ± 0.000 χ^2/NDF : 2823230.1/19

Left In: 0.882 ± 0.000 χ^2/NDF : 55810.4/9

0.854 ± 0.000 χ^2/NDF : 2758560.0/28

0.881 ± 0.000 χ^2/NDF : 2879065.2/29

yield_bpm0i01WS_mean vs Slug



Right In: 150675.025 $\pm$ 0.063 χ^2 /NDF: 3309974859.4/16

Left Out: 150000.859 $\pm$ 0.062 χ^2 /NDF: 1883894535.9/11

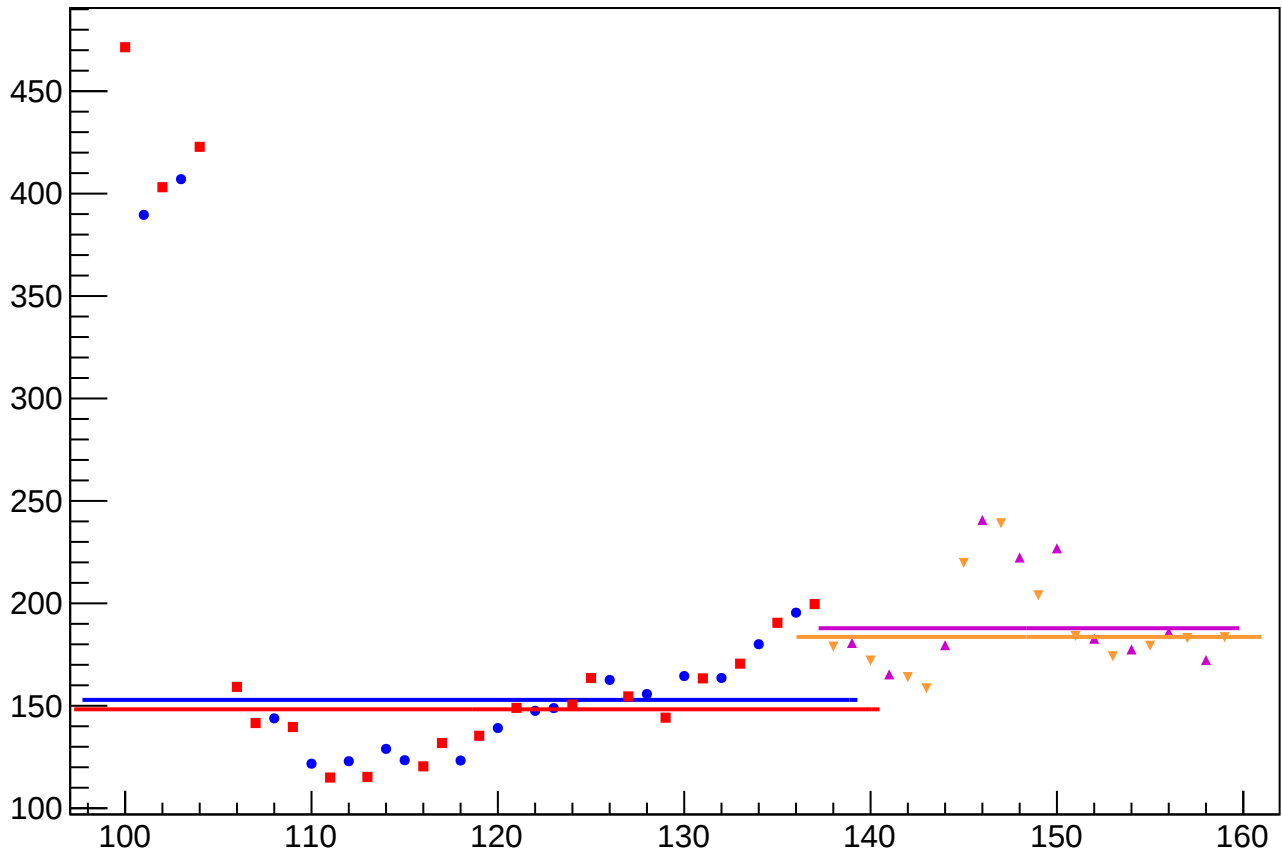
Right Out: 151056.044 $\pm$ 0.059 χ^2 /NDF: 3325519080.9/19

Left In: 149936.727 $\pm$ 0.067 χ^2 /NDF: 1202420518.6/9

150333.358 $\pm$ 0.044 χ^2 /NDF: 5251975417.6/28

150561.250 $\pm$ 0.044 χ^2 /NDF: 4684695192.8/29

yield_bpm0i01WS_rms vs Slug



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 183.616 $\pm$ 0.044 χ^2 /NDF:199458.9/11

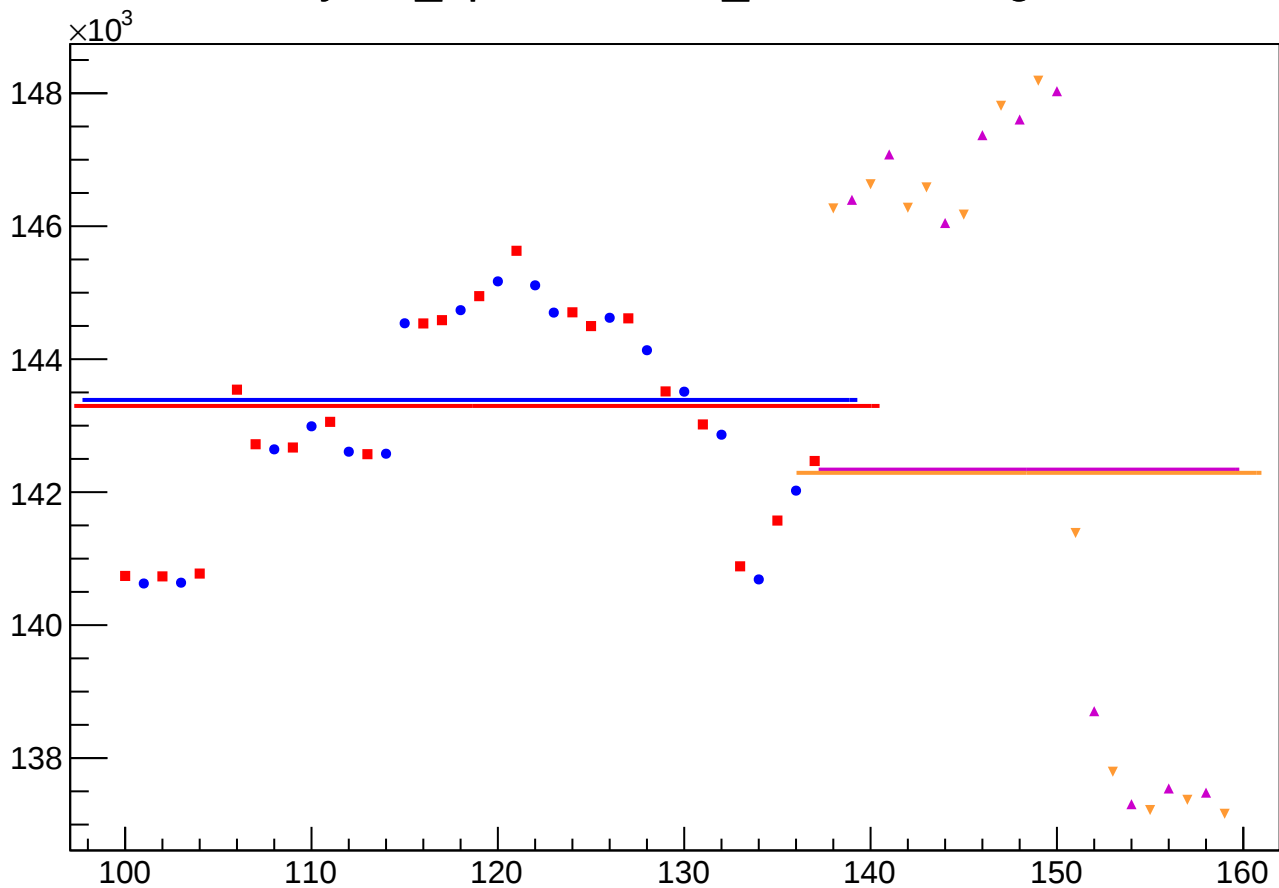
168.459 $\pm$ 0.031 χ^2 /NDF: 1595056.4/28

Right Out: 148.278 $\pm$ 0.042 χ^2 /NDF: 1192879.8/19

165.779 $\pm$ 0.031 χ^2 /NDF: 1807357.7/29

Left In: 187.868 $\pm$ 0.047 χ^2 /NDF:222271.0/9

yield_bpm0i01aWS_mean vs Slug



Right In: 143387.099 $\pm$ 0.053 χ^2 /NDF: 521299875.7/16

Left Out: 142290.759 $\pm$ 0.059 χ^2 /NDF: 5807782025.7/11

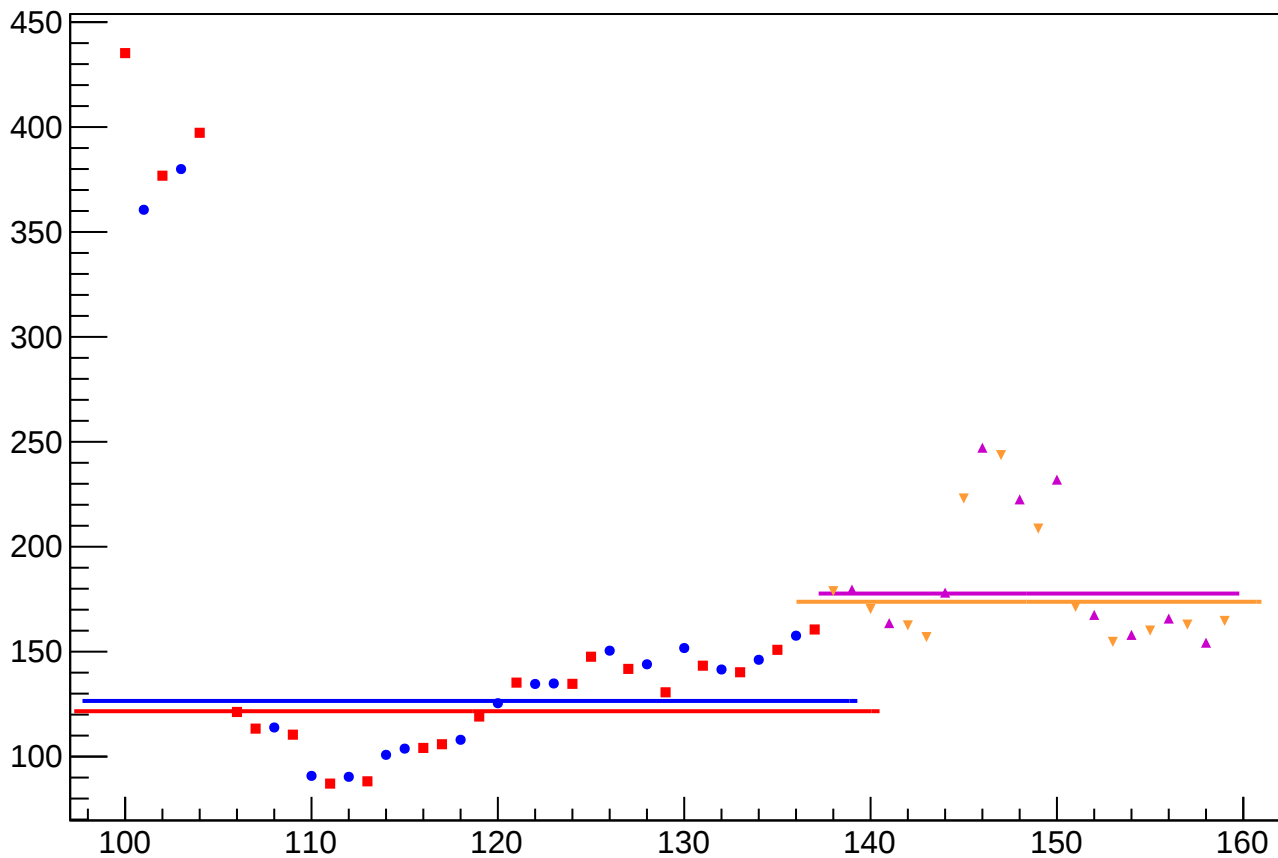
Right Out: 143296.790 $\pm$ 0.049 χ^2 /NDF: 615134284.0/19

Left In: 142339.064 $\pm$ 0.064 χ^2 /NDF: 5367311545.8/9

142900.814 $\pm$ 0.039 χ^2 /NDF: 6520869809.5/28

142940.780 $\pm$ 0.039 χ^2 /NDF: 6125189990.8/29

yield_bpm0i01aWS_rms vs Slug



Right In: 126.514 ± 0.037 χ^2/NDF : 1441685.0/16

Left Out: 173.778 ± 0.042 χ^2/NDF : 314432.7/11

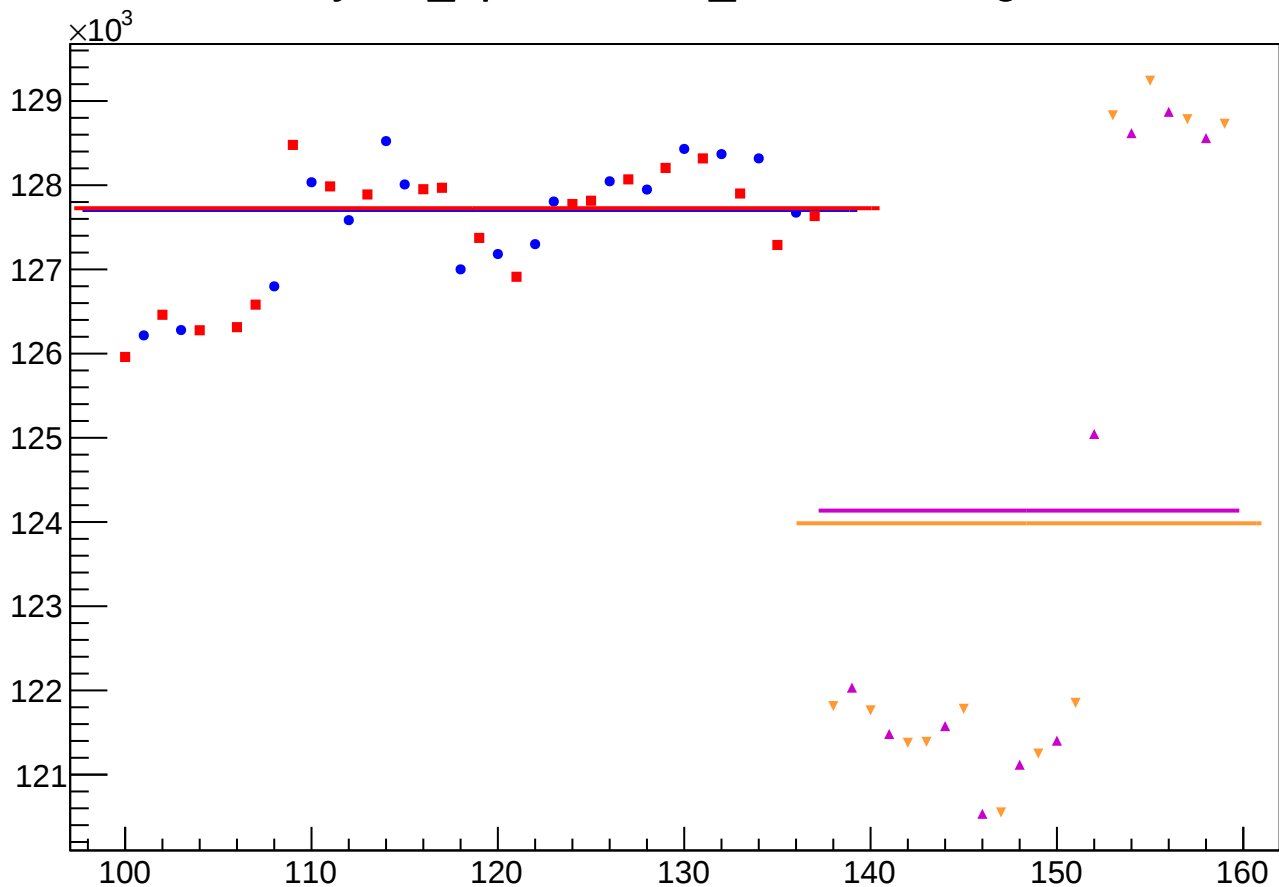
Right Out: 121.625 ± 0.035 χ^2/NDF : 1465763.8/19

Left In: 177.692 ± 0.045 χ^2/NDF : 371596.9/9

147.478 ± 0.028 χ^2/NDF : 2468994.7/28

142.467 ± 0.027 χ^2/NDF : 2815763.3/29

yield_bpm0l01WS_mean vs Slug



Right In: 127706.194 $\pm$ 0.058 χ^2 /NDF: 97860521.1/16

Left Out: 123985.049 $\pm$ 0.056 χ^2 /NDF: 3793625874.5/11

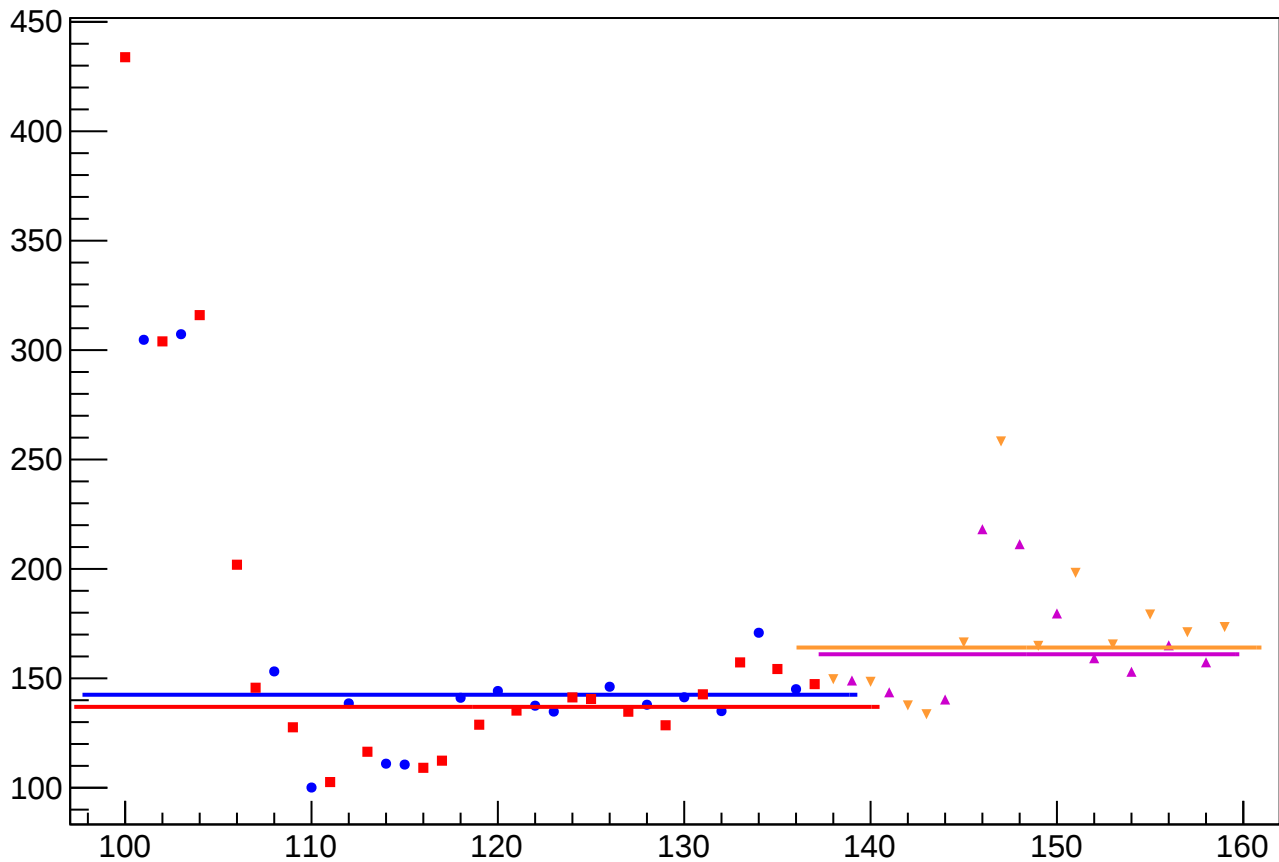
Right Out: 127726.708 $\pm$ 0.054 χ^2 /NDF: 112816704.3/19

Left In: 124135.724 $\pm$ 0.058 χ^2 /NDF: 3247624187.6/9

125790.875 $\pm$ 0.040 χ^2 /NDF: 6005825278.6/28

126044.097 $\pm$ 0.040 χ^2 /NDF: 5413206771.6/29

yield_bpm0l01WS_rms vs Slug



Right In: 142.502 ± 0.041 χ^2/NDF : 836263.7/16

Left Out: 164.082 ± 0.040 χ^2/NDF : 396325.0/11

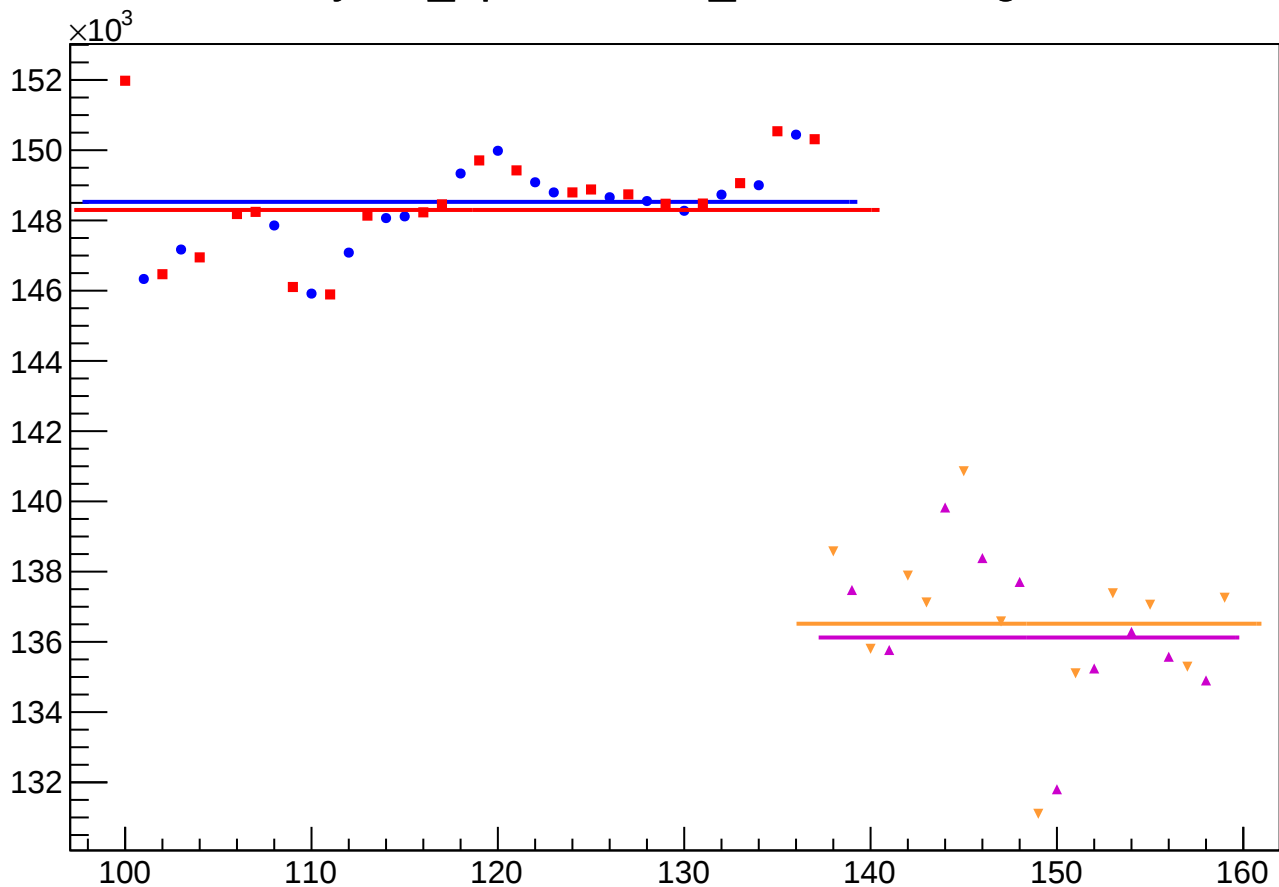
Right Out: 136.963 ± 0.038 χ^2/NDF : 961465.0/19

Left In: 161.003 ± 0.041 χ^2/NDF : 288149.8/9

153.609 ± 0.029 χ^2/NDF : 1374812.6/28

148.228 ± 0.028 χ^2/NDF : 1433612.3/29

yield_bpm0l02WS_mean vs Slug



Right In: 148528.851 ± 0.082 $\chi^2/\text{NDF}: 209986594.2/16$

Left Out: 136516.828 ± 0.084 $\chi^2/\text{NDF}: 766695653.9/11$

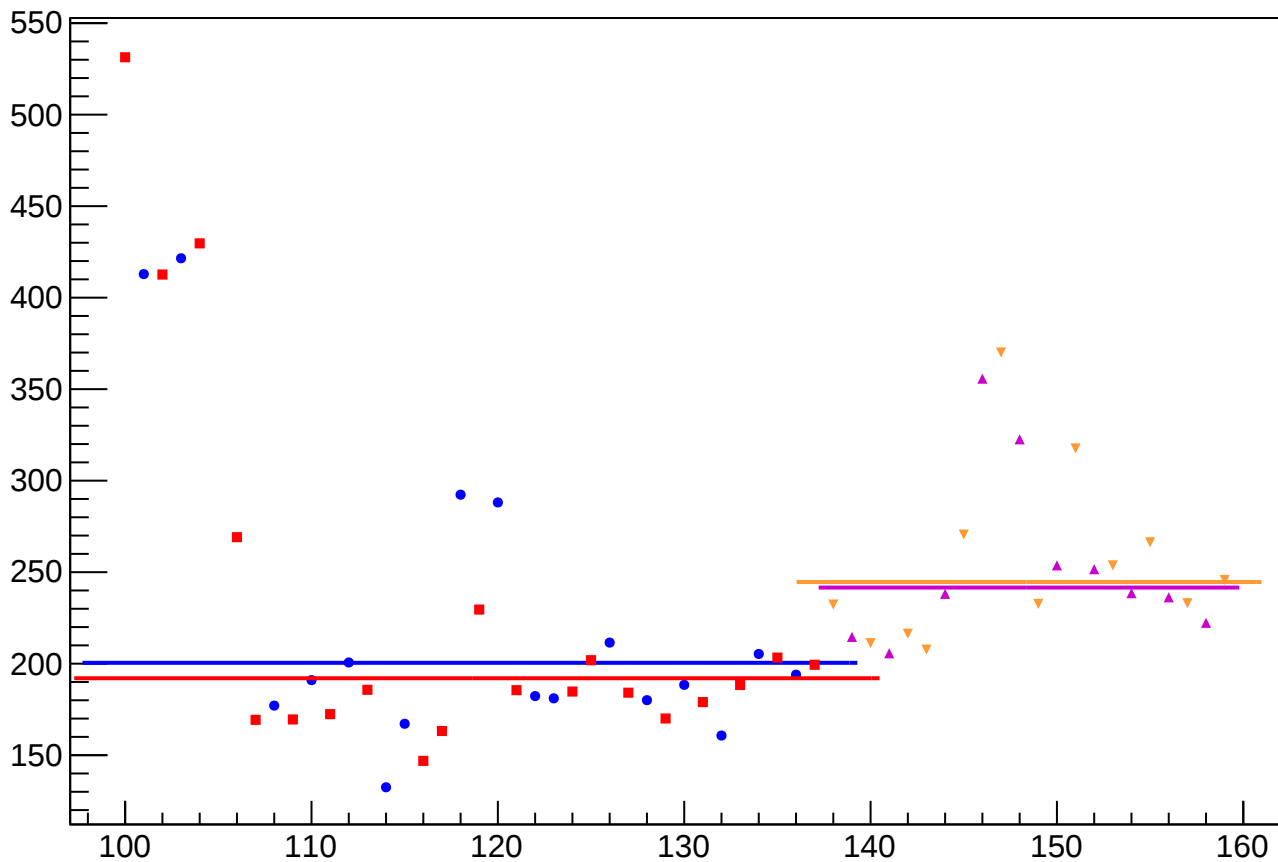
Right Out: 148298.586 ± 0.076 $\chi^2/\text{NDF}: 293284830.9/19$

Left In: 136124.037 ± 0.087 $\chi^2/\text{NDF}: 569065268.6/9$

142632.047 ± 0.059 $\chi^2/\text{NDF}: 11492816089.4/2$

142990.211 ± 0.057 $\chi^2/\text{NDF}: 12032540686.5/2$

yield_bpm0l02WS_rms vs Slug



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 244.620+/-0.059 χ^2/NDF : 390611.6/11

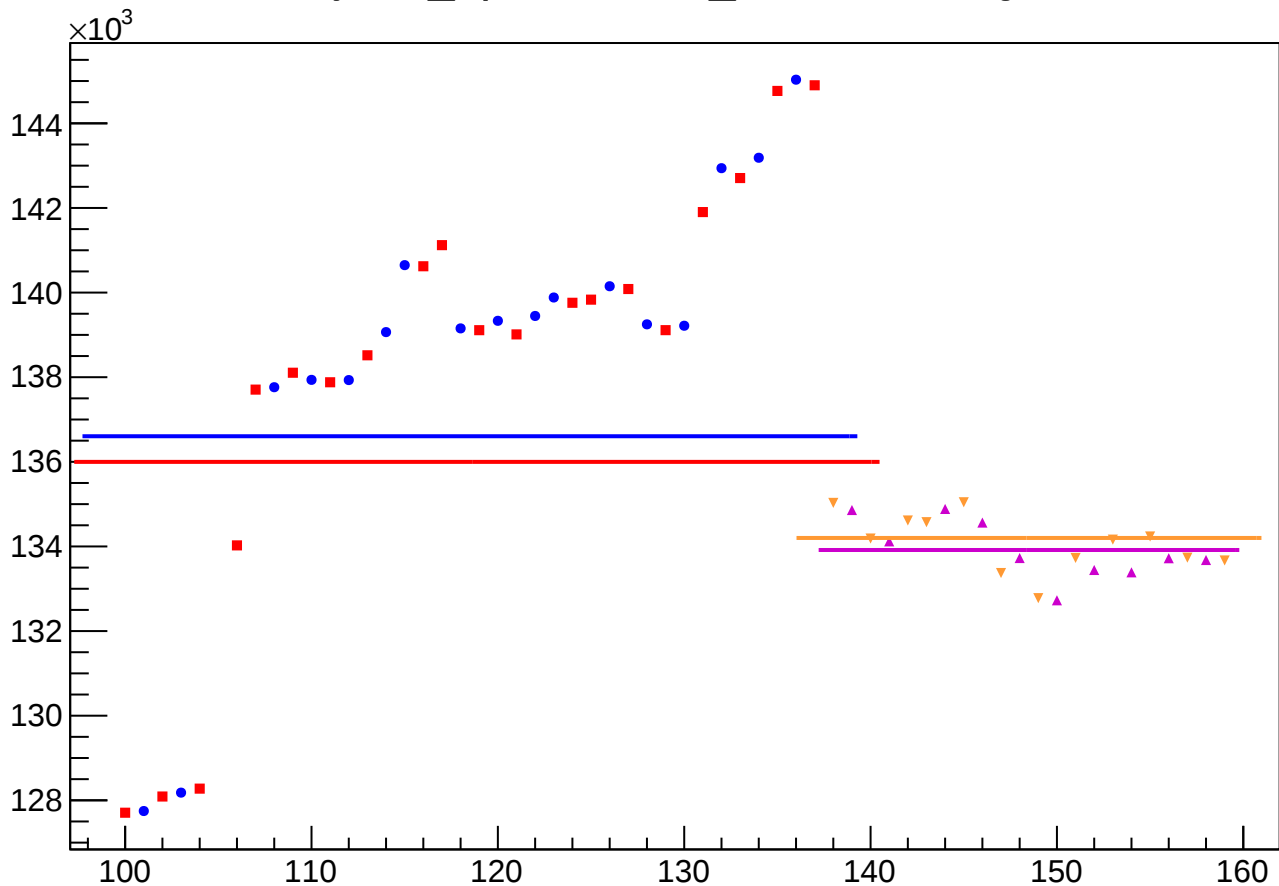
Right Out: 192.040+/-0.054 χ^2/NDF : 847133.0/19

Left In: 241.591+/-0.061 χ^2/NDF : 350119.7/9

222.145+/-0.041 χ^2/NDF : 1611261.4/28

213.645+/-0.040 χ^2/NDF : 1567320.2/29

yield_bpm0l03WS_mean vs Slug



Right In: 136604.632 $\pm$ 0.171 χ^2 /NDF: 1494354557.3/16

Left Out: 134200.784 $\pm$ 0.197 χ^2 /NDF: 10879439.3/11

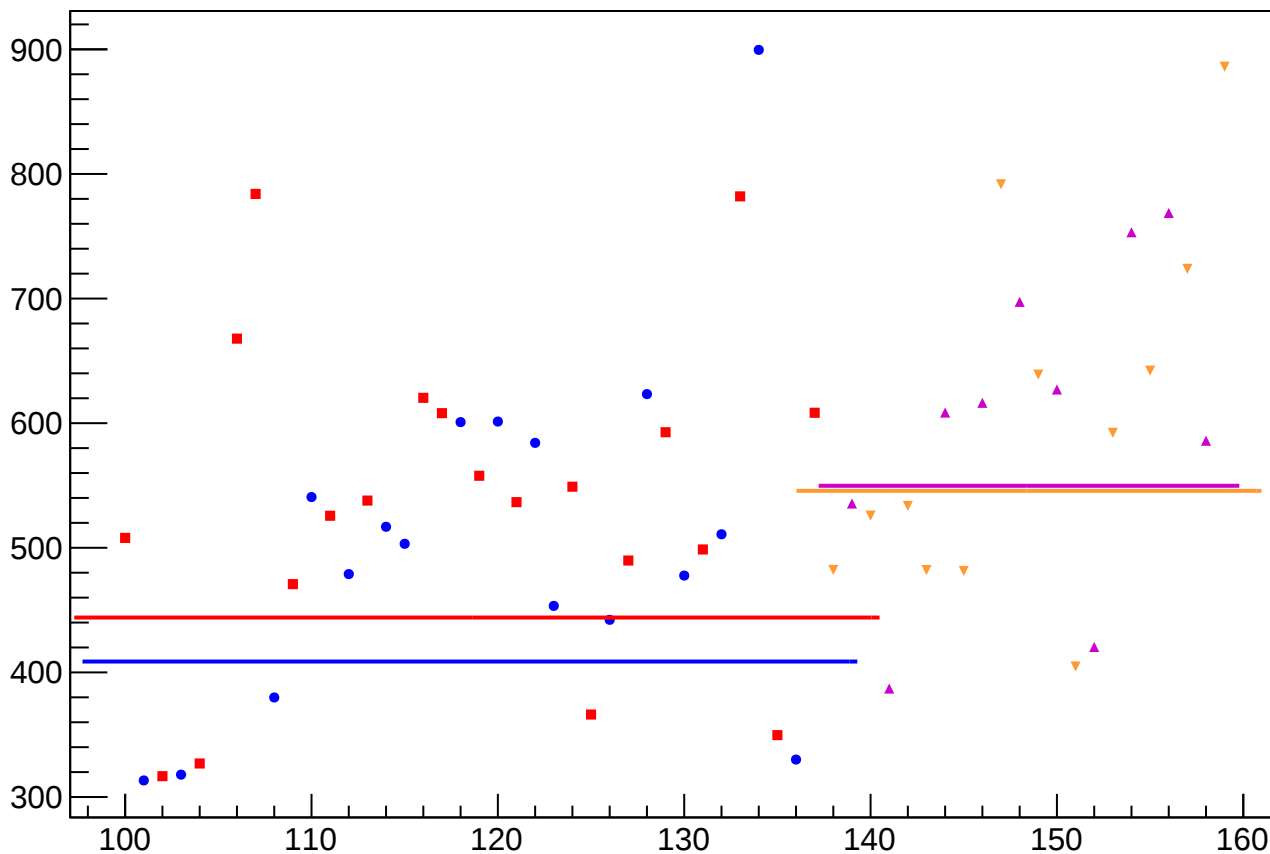
135566.239 $\pm$ 0.129 χ^2 /NDF: 1590162066.8/28

Right Out: 135998.851 $\pm$ 0.182 χ^2 /NDF: 1084895879.4/19

135118.308 $\pm$ 0.139 χ^2 /NDF: 1148848569.0/29

Left In: 133916.205 $\pm$ 0.213 χ^2 /NDF: 8831014.4/9

yield_bpm0l03WS_rms vs Slug



Right In: 408.729 ± 0.121 $\chi^2/\text{NDF}: 823262.8/16$

Left Out: 545.711 ± 0.139 $\chi^2/\text{NDF}: 732821.4/11$

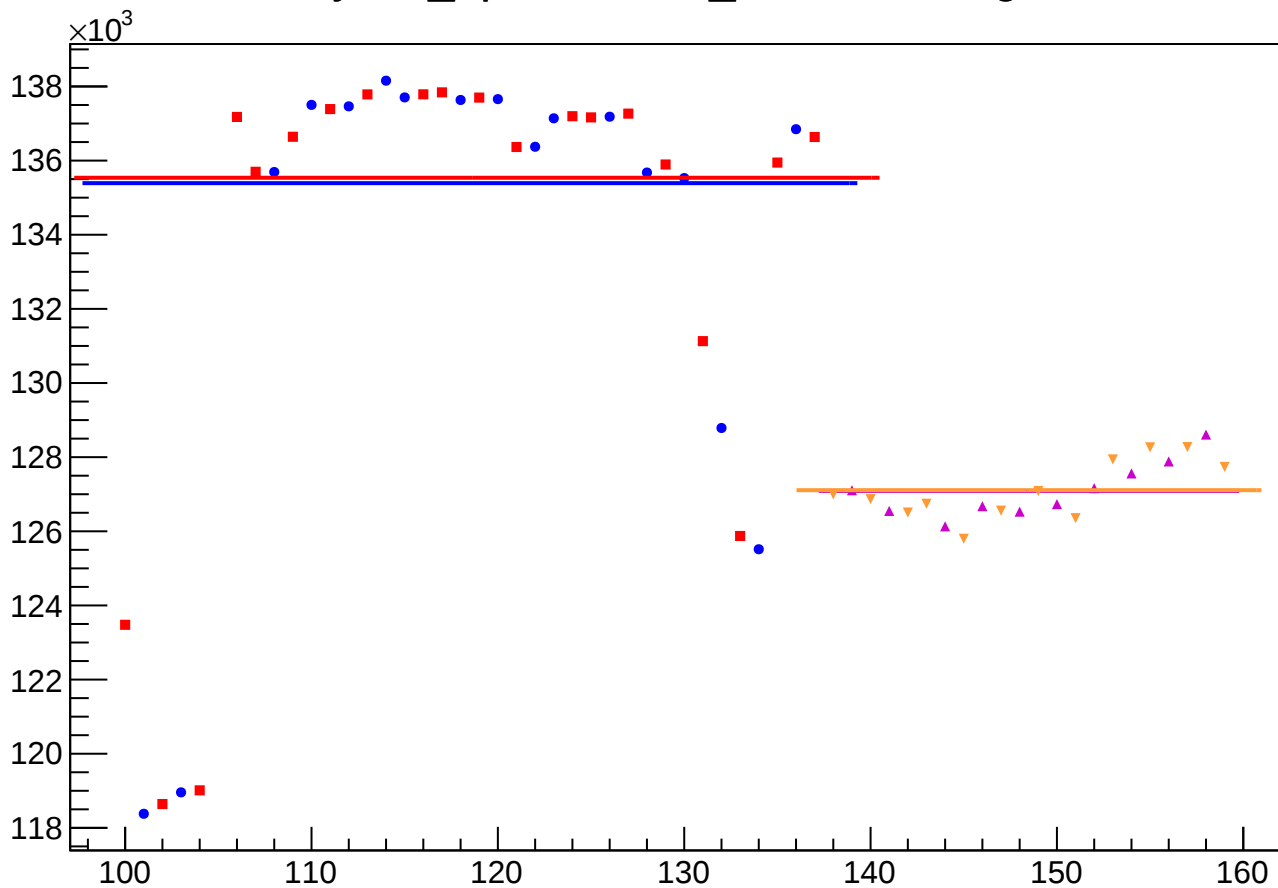
Right Out: 444.034 ± 0.129 $\chi^2/\text{NDF}: 922545.8/19$

Left In: 549.779 ± 0.151 $\chi^2/\text{NDF}: 694987.6/9$

467.902 ± 0.091 $\chi^2/\text{NDF}: 2107645.5/28$

488.743 ± 0.098 $\chi^2/\text{NDF}: 1901743.3/29$

yield_bpm0l04WS_mean vs Slug



Right In: 135391.458 $\pm$ 0.068 χ^2 /NDF: 4580024611.0/16

Left Out: 127109.294 $\pm$ 0.061 χ^2 /NDF: 150806721.5/11

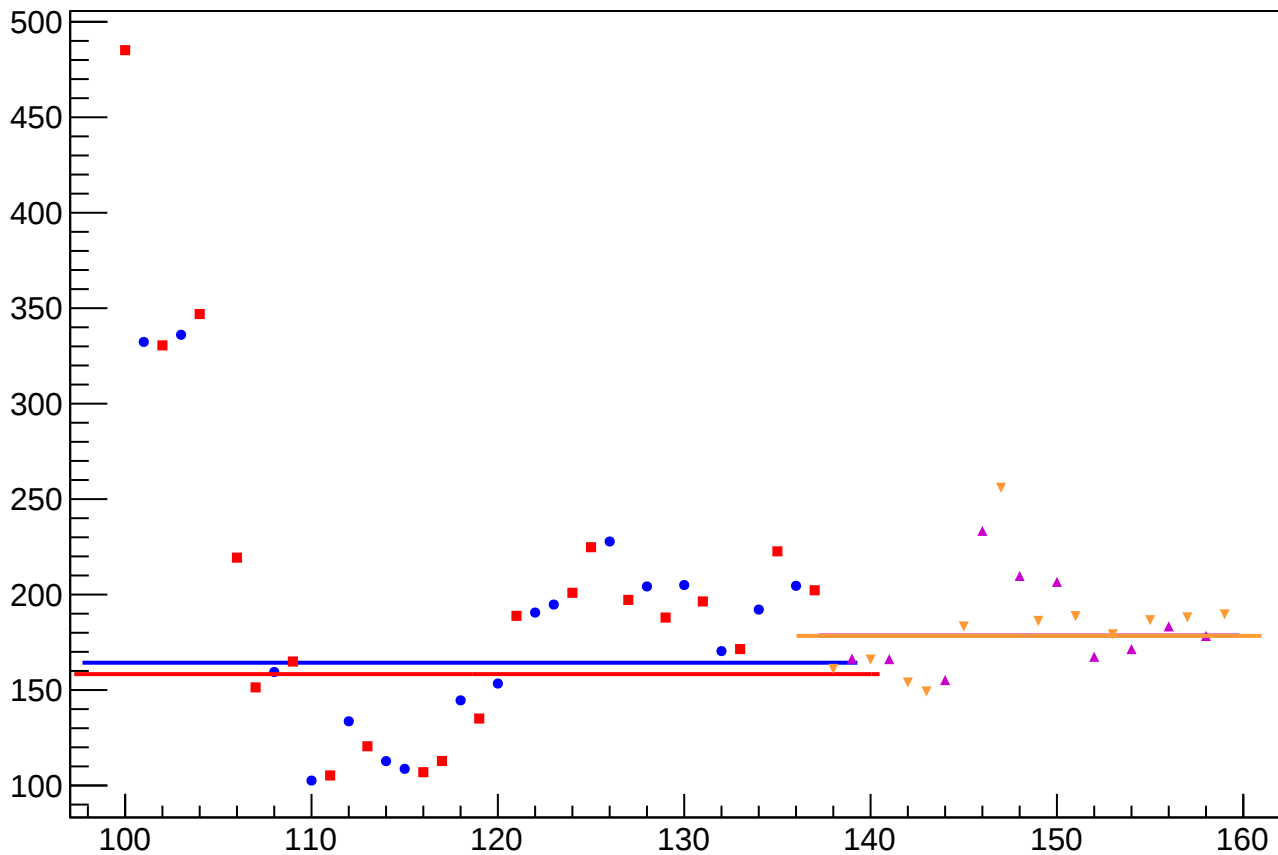
Right Out: 135537.290 $\pm$ 0.064 χ^2 /NDF: 4748951957.4/19

Left In: 127088.721 $\pm$ 0.064 χ^2 /NDF: 131349227.7/9

130765.677 $\pm$ 0.045 χ^2 /NDF: 12952272071.5/2

131294.399 $\pm$ 0.045 χ^2 /NDF: 13647673524.2/2

yield_bpm0l04WS_rms vs Slug



Right In: 164.311 ± 0.048 χ^2/NDF : 1230487.8/16

Left Out: 178.375 ± 0.043 χ^2/NDF : 259435.3/11

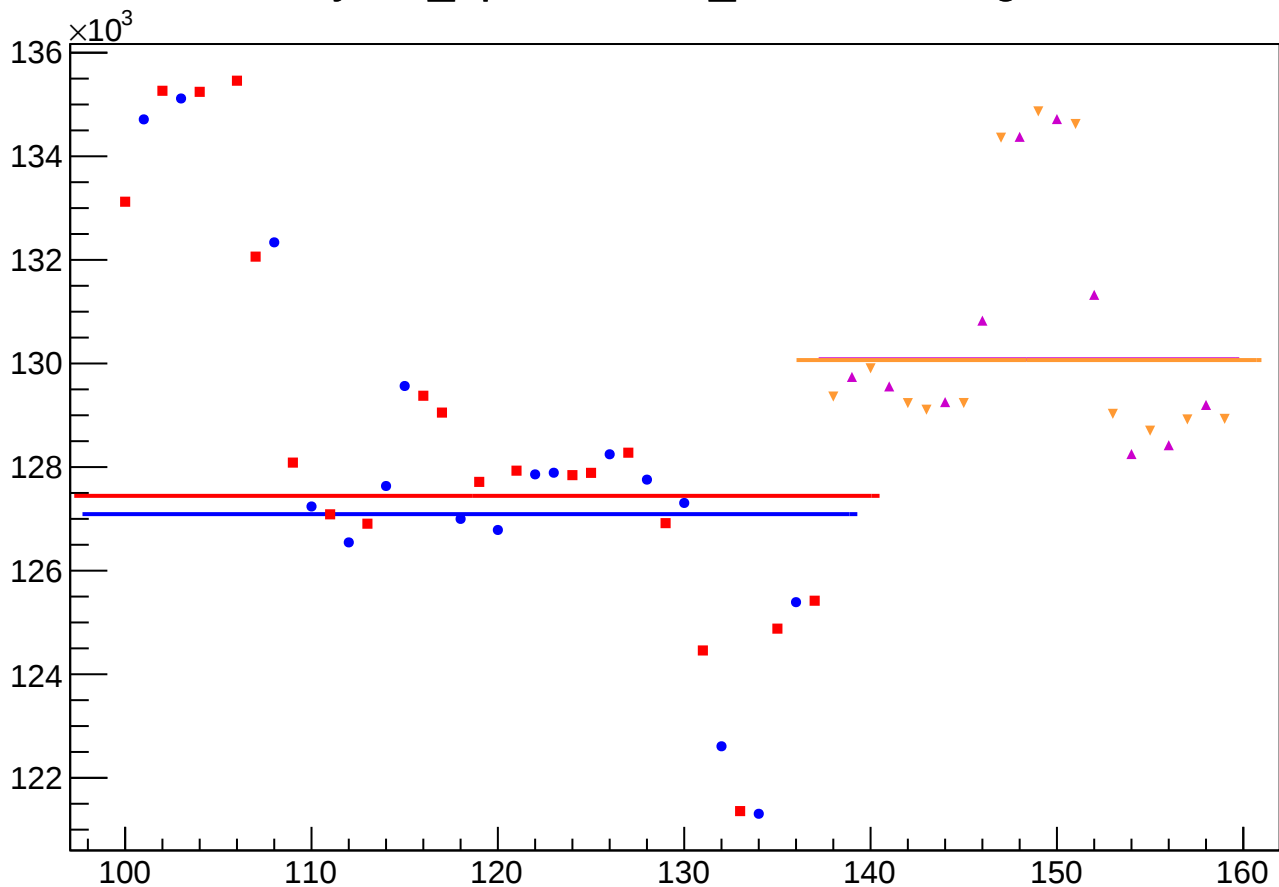
Right Out: 158.336 ± 0.045 χ^2/NDF : 1398323.7/19

Left In: 178.566 ± 0.045 χ^2/NDF : 218273.0/9

172.166 ± 0.032 χ^2/NDF : 1537337.7/28

168.496 ± 0.032 χ^2/NDF : 1717129.0/29

yield_bpm0l05WS_mean vs Slug



Right In: 127091.500+/-0.066 χ^2 /NDF: 1717208780.6/16

Left Out: 130065.939+/-0.062 χ^2 /NDF: 1104003325.9/11

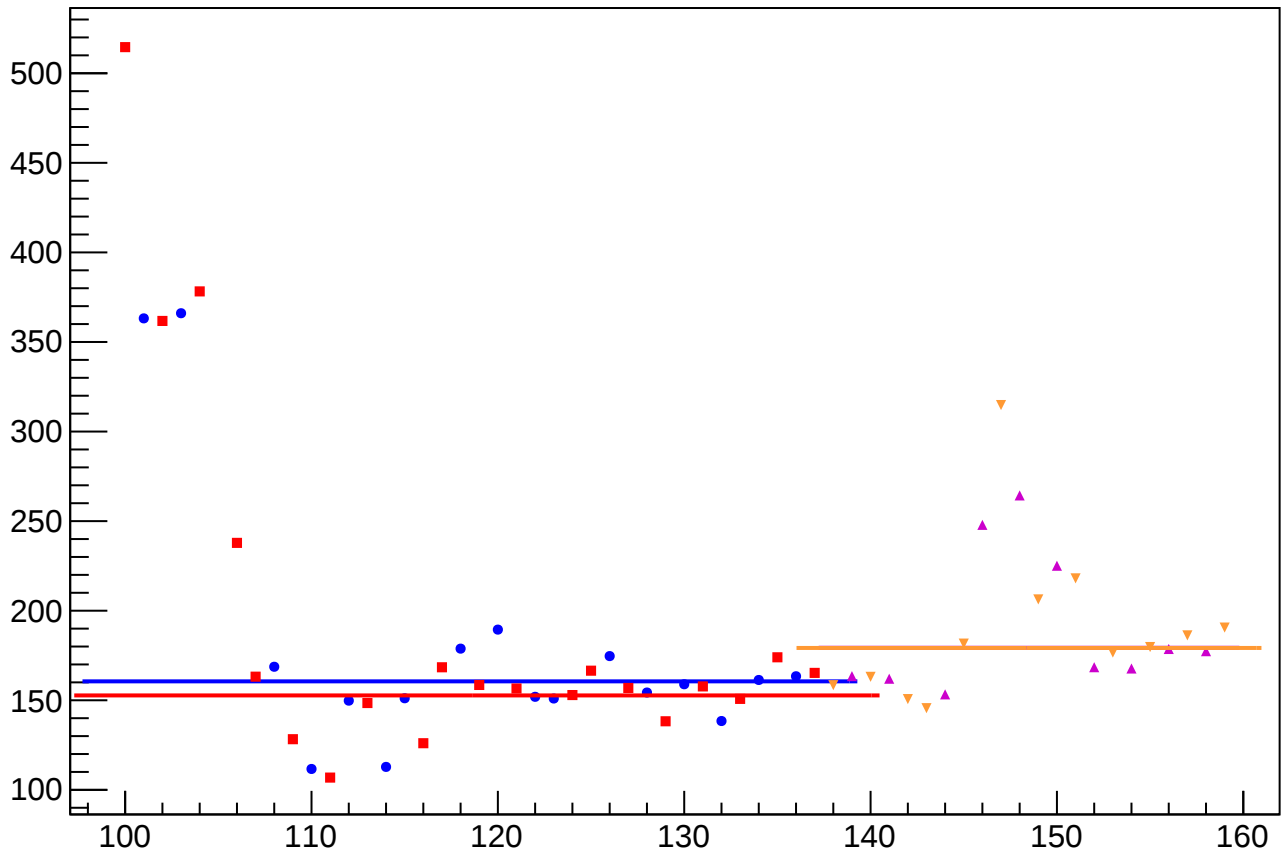
Right Out: 127444.472+/-0.061 χ^2 /NDF: 2082646787.7/19

Left In: 130081.326+/-0.064 χ^2 /NDF: 836738491.3/9

128687.037+/-0.045 χ^2 /NDF: 3900752169.3/28

128698.628+/-0.044 χ^2 /NDF: 3797013992.8/29

yield_bpm0l05WS_rms vs Slug



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 179.209 $\pm$ 0.044 χ^2 /NDF: 508797.7/11

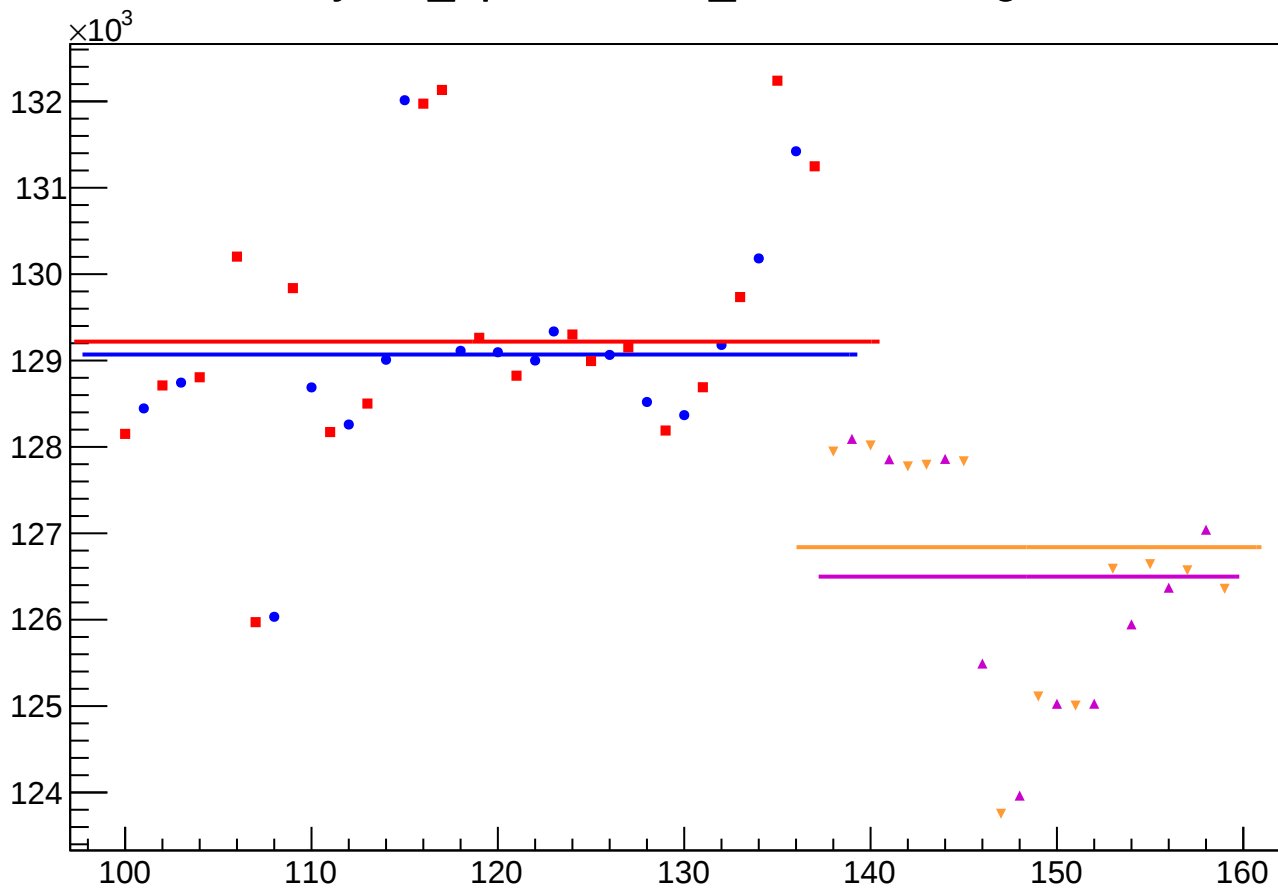
170.565 $\pm$ 0.032 χ^2 /NDF: 1536377.1/28

Right Out: 152.711 $\pm$ 0.043 χ^2 /NDF: 1087186.3/19

165.359 $\pm$ 0.031 χ^2 /NDF: 1712119.9/29

Left In: 179.303 $\pm$ 0.046 χ^2 /NDF: 446411.5/9

yield_bpm0l06WS_mean vs Slug



Right In: 129069.668 ± 0.060 χ^2/NDF : 476692316.5/16

Left Out: 126839.584 ± 0.059 χ^2/NDF : 410369416.5/11

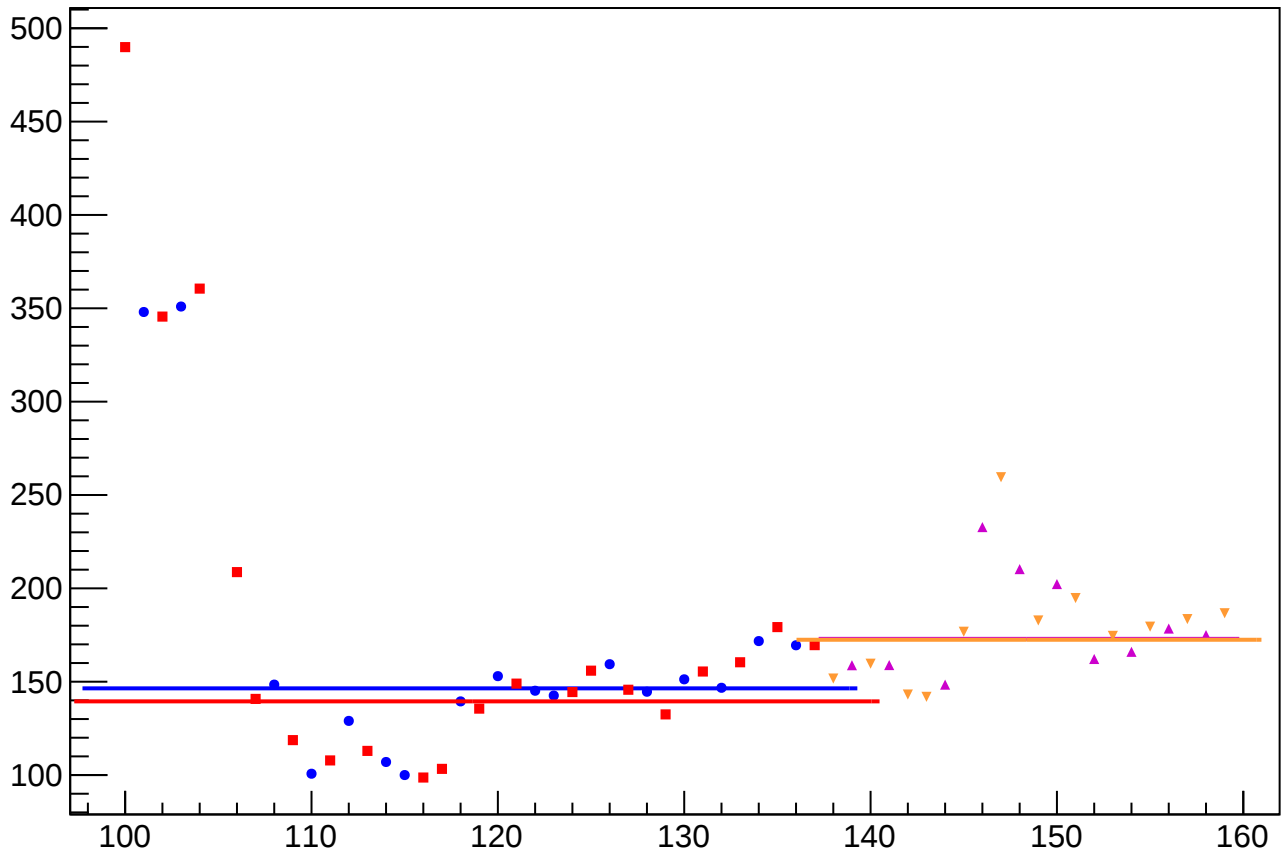
Right Out: 129219.072 ± 0.056 χ^2/NDF : 660468184.1/19

Left In: 126498.672 ± 0.062 χ^2/NDF : 457022581.3/9

127930.033 ± 0.042 χ^2/NDF : 1589043730.2/28

127997.690 ± 0.041 χ^2/NDF : 2187036856.7/29

yield_bpm0l06WS_rms vs Slug



Right In: 146.437 ± 0.043 χ^2/NDF : 1064791.0/16

Left Out: 172.467 ± 0.042 χ^2/NDF : 350681.2/11

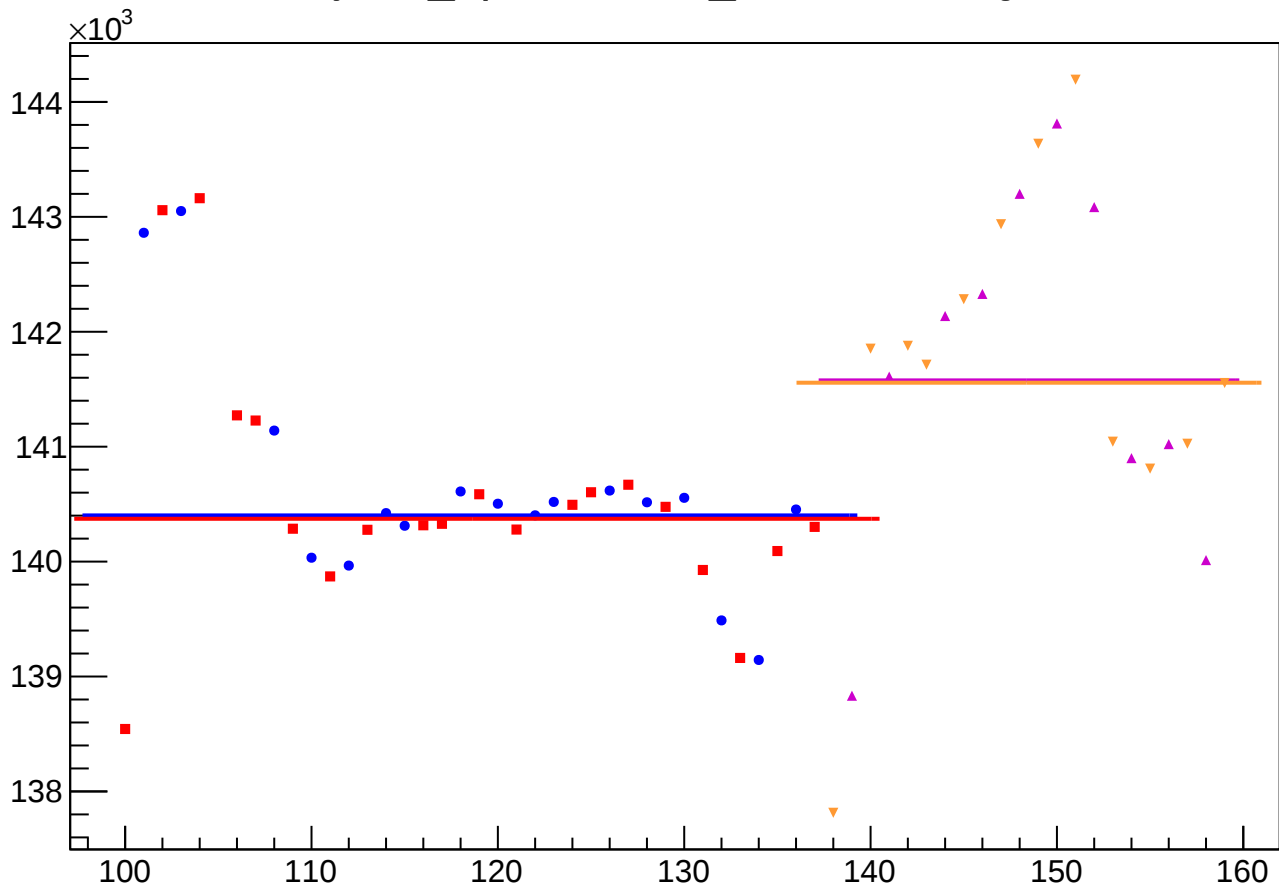
Right Out: 139.468 ± 0.039 χ^2/NDF : 1214310.8/19

Left In: 172.949 ± 0.044 χ^2/NDF : 270497.2/9

159.739 ± 0.030 χ^2/NDF : 1606746.8/28

154.500 ± 0.029 χ^2/NDF : 1808825.5/29

yield_bpm0l07WS_mean vs Slug



Right In: 140402.010+/-0.064 χ^2/NDF : 88071774.7/16

Left Out: 141556.739+/-0.068 χ^2/NDF : 556014285.4/11

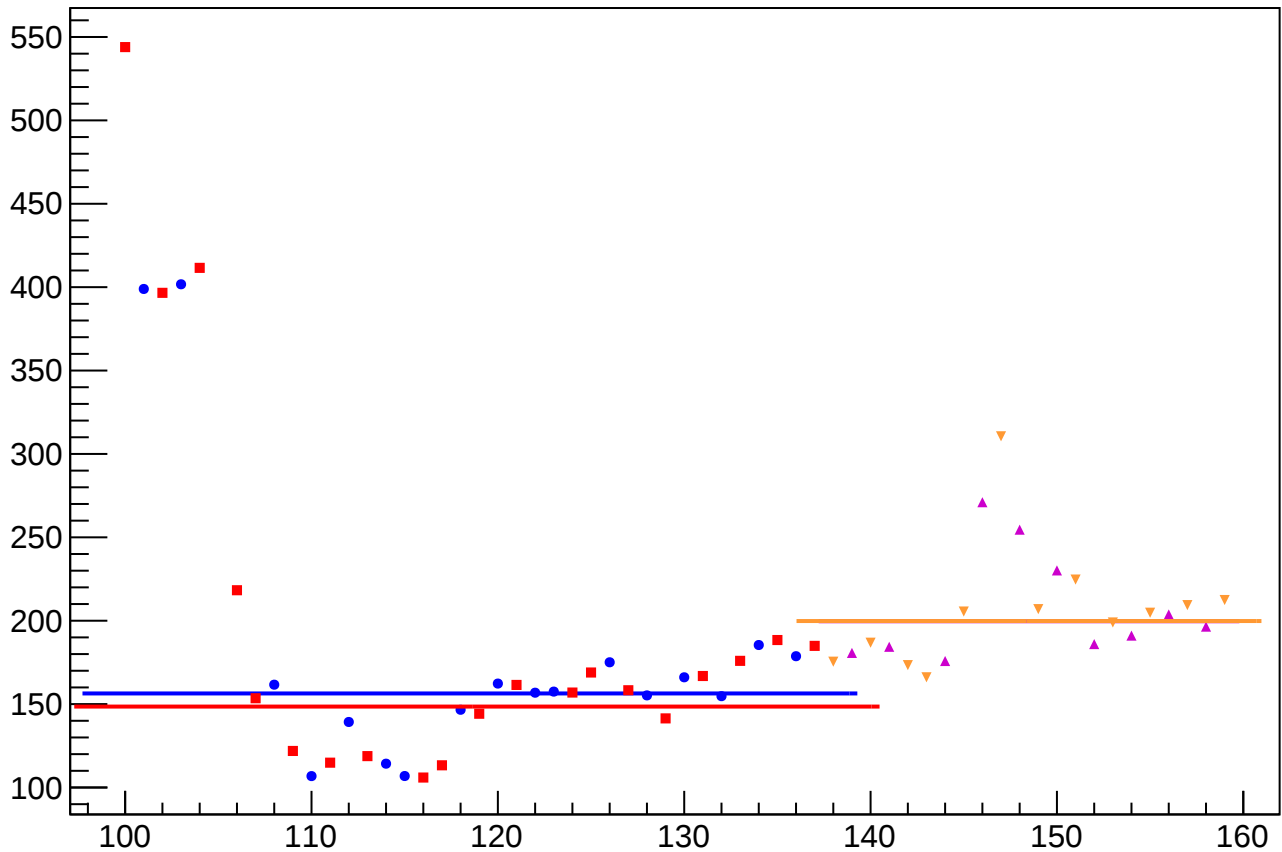
Right Out: 140372.636+/-0.059 χ^2/NDF : 99861038.9/19

Left In: 141576.894+/-0.071 χ^2/NDF : 402911130.1/9

140944.672+/-0.047 χ^2/NDF : 795422248.9/28

140865.903+/-0.046 χ^2/NDF : 670603758.9/29

yield_bpm0l07WS_rms vs Slug



Right In: 156.394+/-0.046 χ^2/NDF : 1154804.2/16

Left Out: 199.809+/-0.048 χ^2/NDF : 336274.4/11

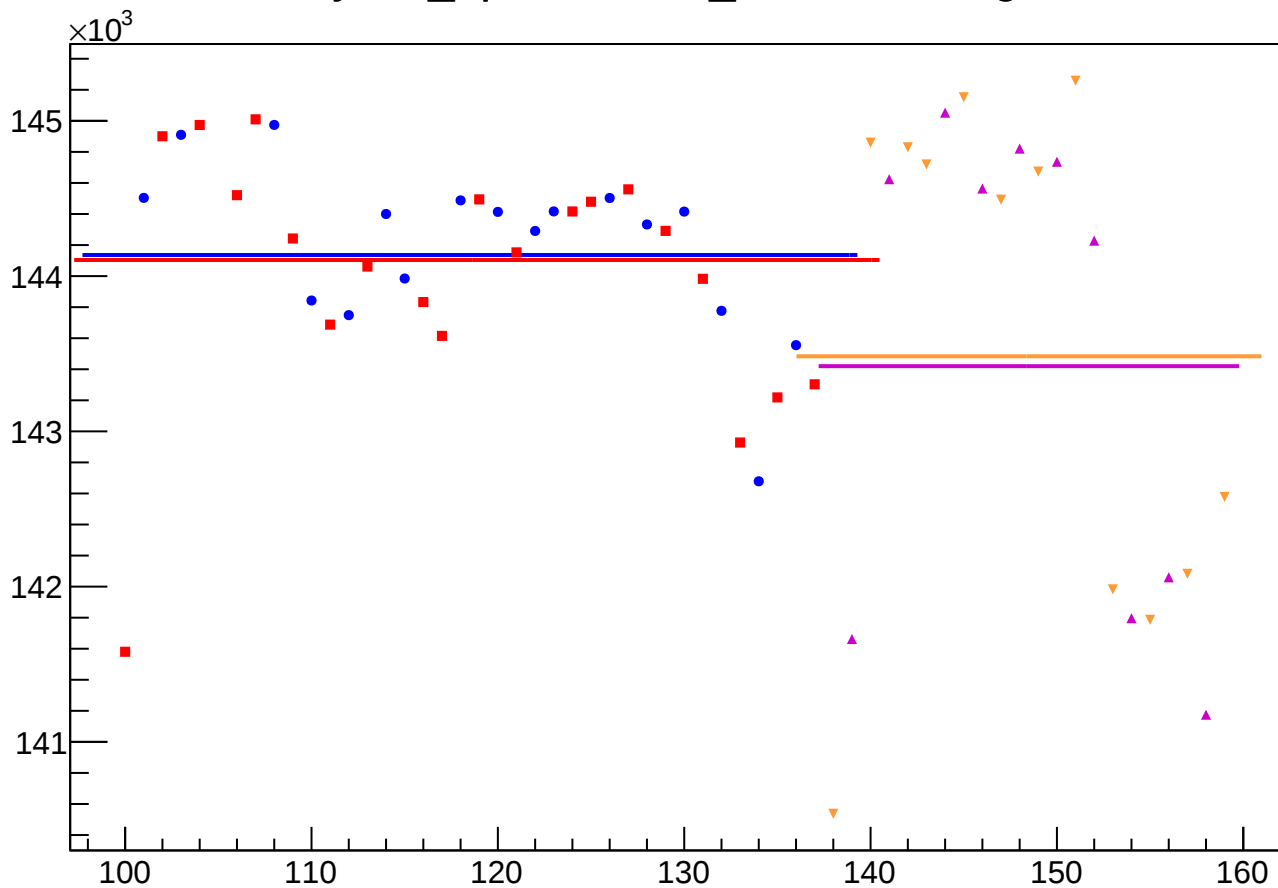
176.796+/-0.033 χ^2/NDF : 1918928.0/28

Right Out: 148.524+/-0.042 χ^2/NDF : 1316113.9/19

169.478+/-0.032 χ^2/NDF : 2203430.6/29

Left In: 199.682+/-0.051 χ^2/NDF : 281575.0/9

yield_bpm0l08WS_mean vs Slug



Right In: 144136.118 ± 0.067 $\chi^2/\text{NDF}: 47069480.3/16$

Left Out: 143483.406 ± 0.068 $\chi^2/\text{NDF}: 583605630.3/11$

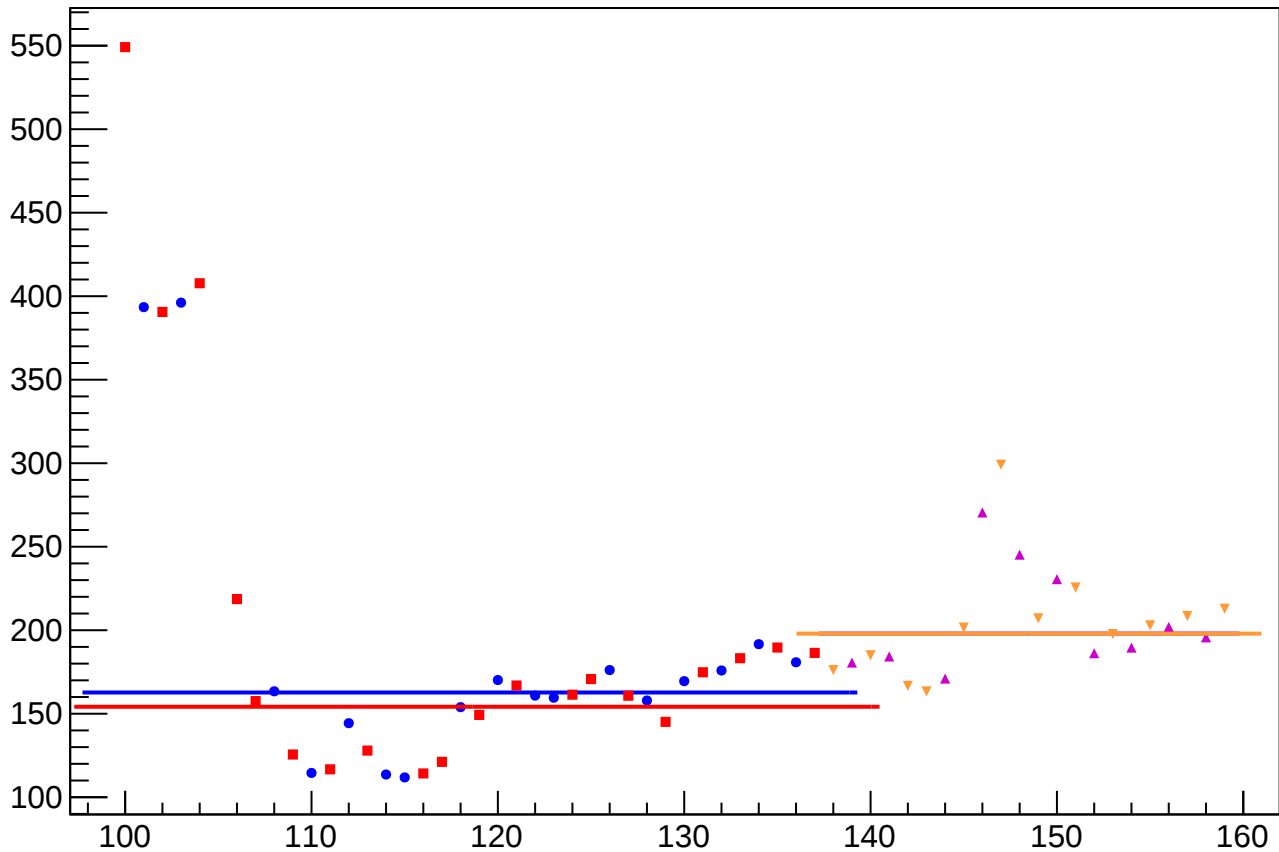
Right Out: 144103.887 ± 0.062 $\chi^2/\text{NDF}: 65973087.5/19$

Left In: 143419.899 ± 0.071 $\chi^2/\text{NDF}: 460282447.5/9$

143813.999 ± 0.048 $\chi^2/\text{NDF}: 677836098.2/28$

143809.735 ± 0.046 $\chi^2/\text{NDF}: 579414138.6/29$

yield_bpm0l08WS_rms vs Slug



Right In: 162.714+/-0.047 χ^2/NDF : 1066482.0/16

Left Out: 197.951+/-0.048 χ^2/NDF : 333654.1/11

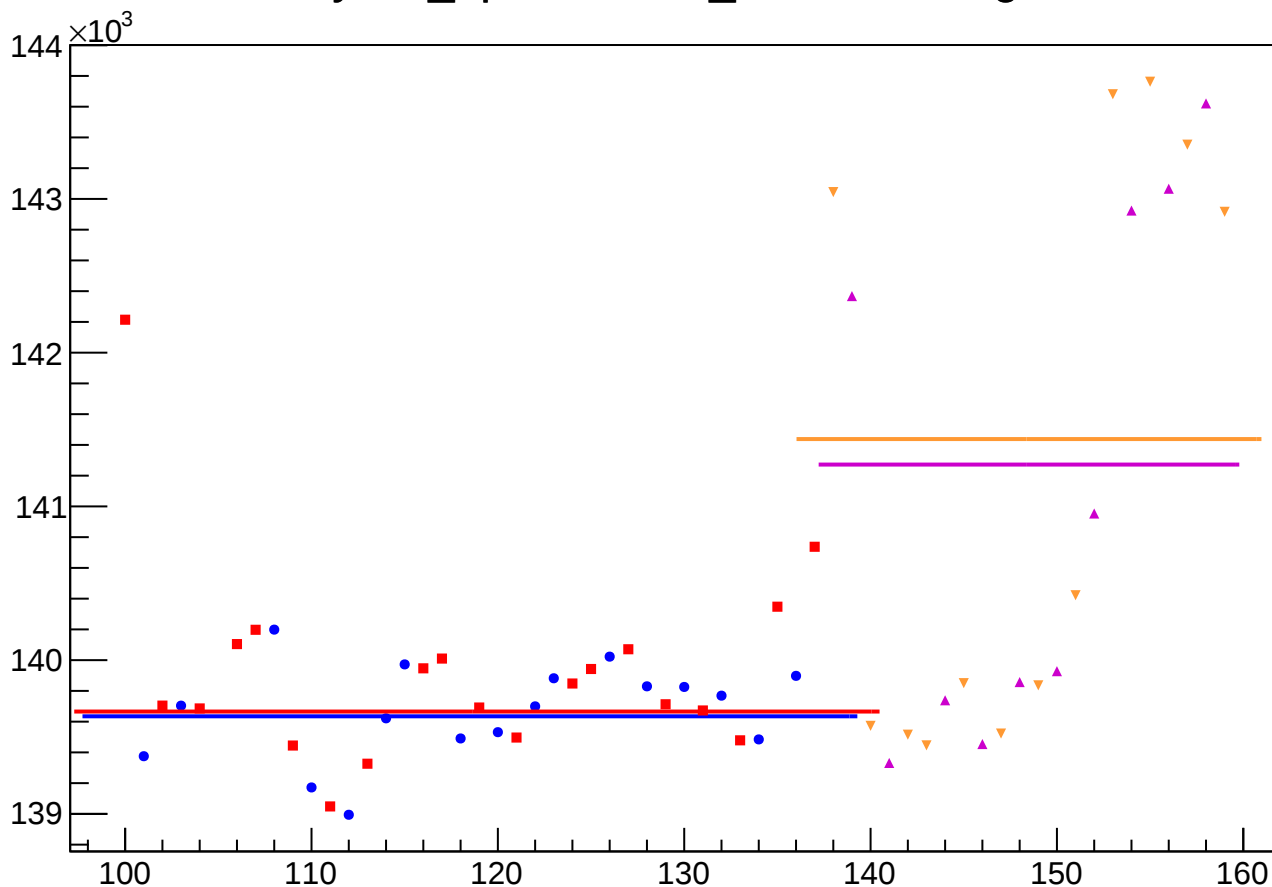
180.104+/-0.034 χ^2/NDF : 1675032.1/28

Right Out: 154.174+/-0.044 χ^2/NDF : 1224004.2/19

173.021+/-0.033 χ^2/NDF : 1938508.1/29

Left In: 197.999+/-0.050 χ^2/NDF : 278032.5/9

yield_bpm0l09WS_mean vs Slug



Right In: 139634.700 ± 0.068 χ^2/NDF : 24844912.0/16

Left Out: 141438.060 ± 0.071 χ^2/NDF : 643987726.5/11

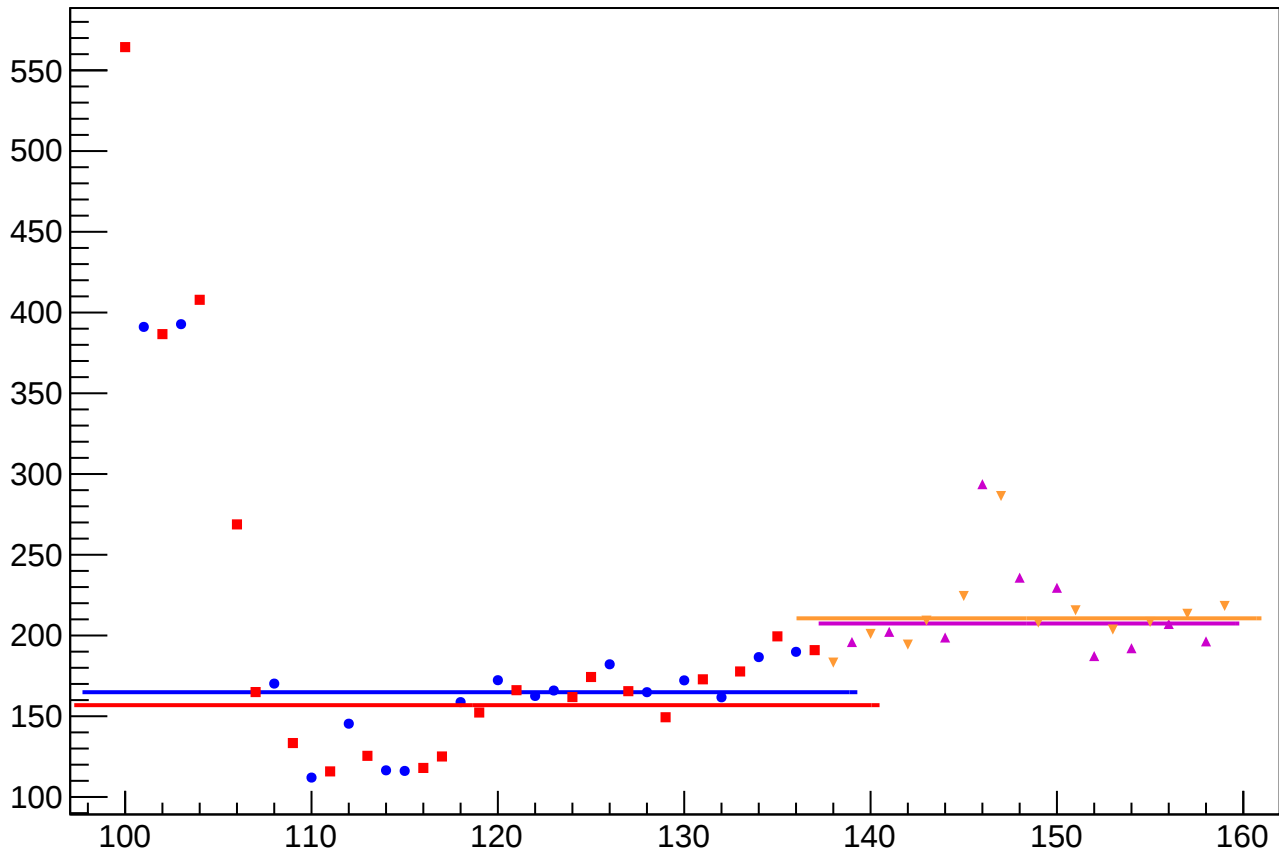
Right Out: 139665.743 ± 0.063 χ^2/NDF : 38703726.2/19

Left In: 141272.137 ± 0.074 χ^2/NDF : 470839962.3/9

140488.399 ± 0.049 χ^2/NDF : 1003977046.0/28

140336.260 ± 0.048 χ^2/NDF : 783580449.9/29

yield_bpm0l09WS_rms vs Slug



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 210.635 $\pm$ 0.051 χ^2 /NDF:161179.1/11

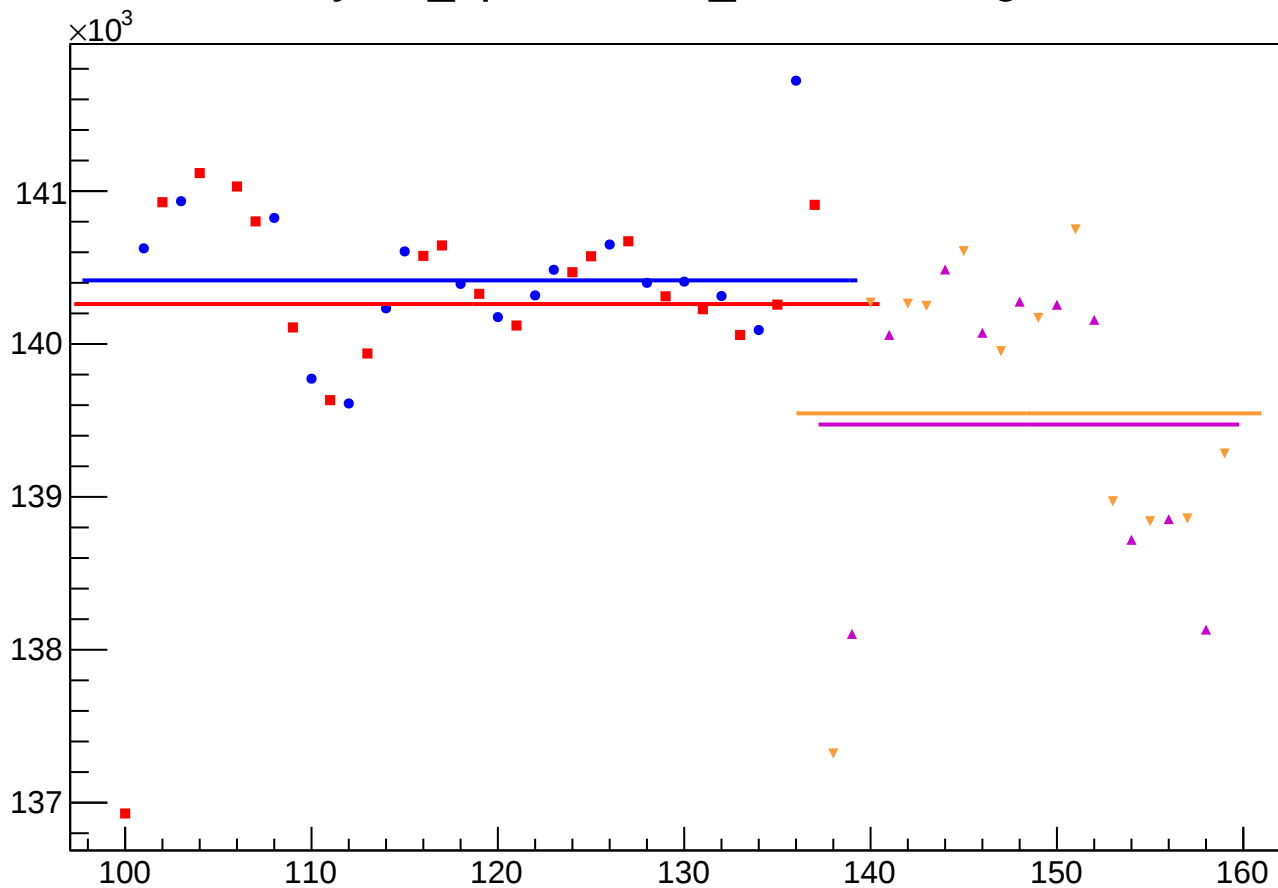
Right Out: 156.859 $\pm$ 0.044 χ^2 /NDF: 1250656.2/19

Left In: 207.432 $\pm$ 0.052 χ^2 /NDF:215803.7/9

186.542 $\pm$ 0.035 χ^2 /NDF: 1658856.5/28

177.969 $\pm$ 0.034 χ^2 /NDF: 2009672.5/29

yield_bpm0l10WS_mean vs Slug



Right In: 140416.064 ± 0.068 $\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139546.316 ± 0.066 $\chi^2/\text{NDF}: 234038023.3/11$

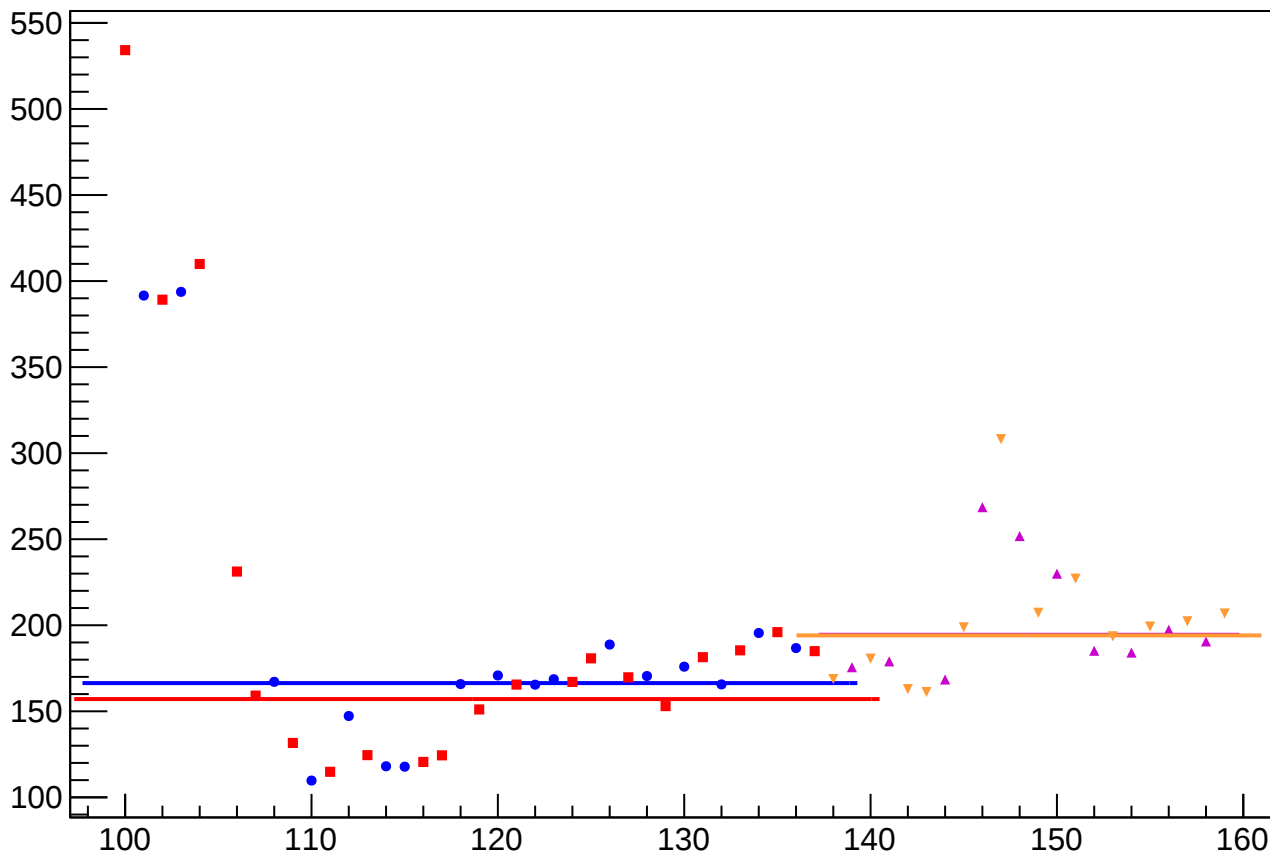
Right Out: 140261.267 ± 0.063 $\chi^2/\text{NDF}: 38479140.4/19$

Left In: 139473.374 ± 0.070 $\chi^2/\text{NDF}: 175039505.0/9$

139967.980 ± 0.048 $\chi^2/\text{NDF}: 387327695.8/28$

139907.649 ± 0.047 $\chi^2/\text{NDF}: 284176278.6/29$

yield_bpm0l10WS_rms vs Slug



Right In: 166.388 ± 0.048 χ^2/NDF : 1080964.8/16

Left Out: 194.094 ± 0.047 χ^2/NDF : 387628.9/11

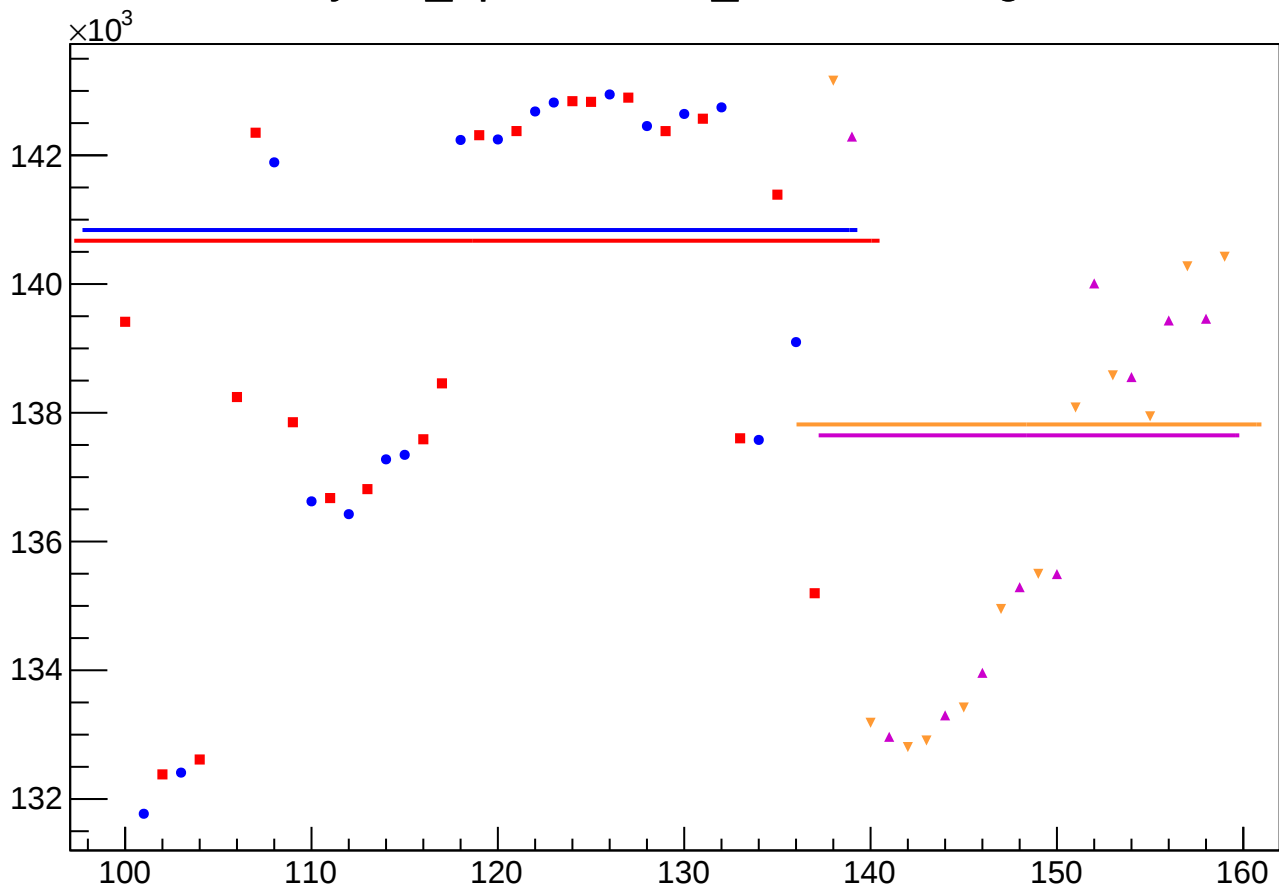
Right Out: 157.110 ± 0.044 χ^2/NDF : 1235934.7/19

Left In: 194.460 ± 0.049 χ^2/NDF : 319087.0/9

180.662 ± 0.034 χ^2/NDF : 1637683.8/28

173.873 ± 0.033 χ^2/NDF : 1872573.2/29

yield_bpm0r03WS_mean vs Slug



Right In: 140839.133 $\pm$ 0.100 χ^2 /NDF: 822682996.3/16

Left Out: 137818.973 $\pm$ 0.103 χ^2 /NDF: 1245291237.4/11

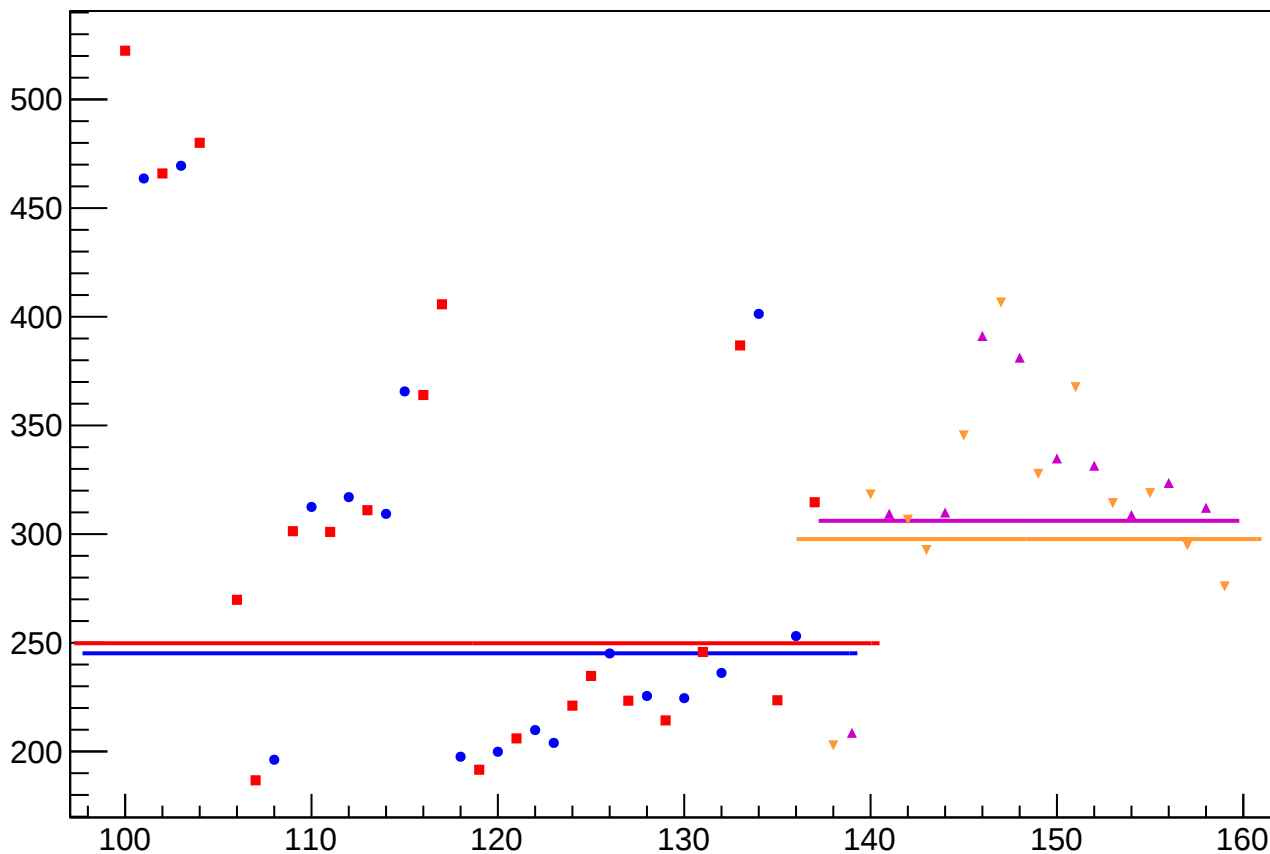
Right Out: 140672.898 $\pm$ 0.099 χ^2 /NDF: 841965357.5/19

Left In: 137649.447 $\pm$ 0.111 χ^2 /NDF: 900666138.1/9

139374.798 $\pm$ 0.072 χ^2 /NDF: 2510123287.0/28

139330.843 $\pm$ 0.074 χ^2 /NDF: 2156841468.7/29

yield_bpm0r03WS_rms vs Slug



Right In: 245.159+/-0.071 χ^2/NDF : 869491.6/16

Left Out: 297.715+/-0.073 χ^2/NDF : 543307.8/11

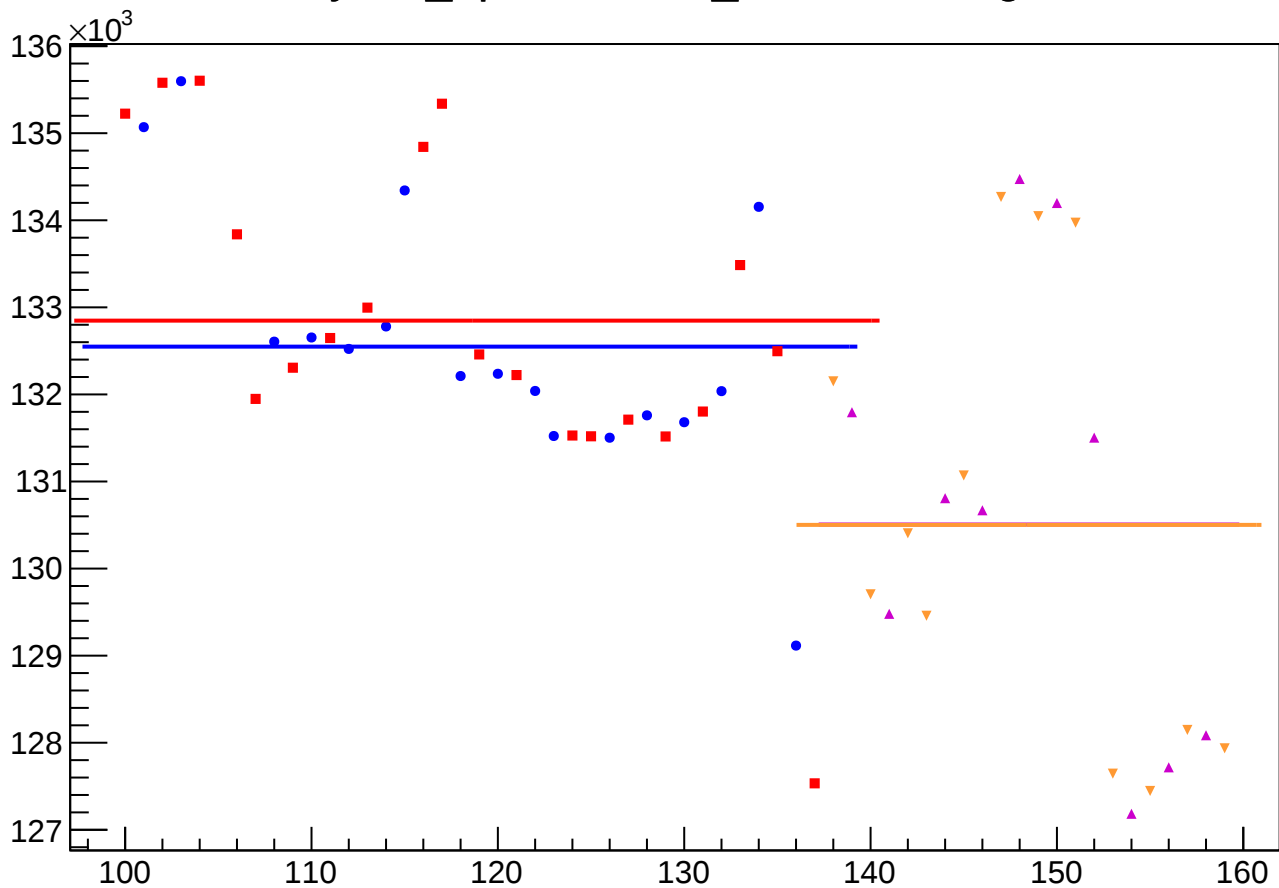
Right Out: 249.792+/-0.070 χ^2/NDF : 1022316.0/19

Left In: 306.125+/-0.078 χ^2/NDF : 444666.0/9

270.641+/-0.051 χ^2/NDF : 1680584.7/28

274.797+/-0.052 χ^2/NDF : 1754572.6/29

yield_bpm0r05WS_mean vs Slug



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 130501.716 $\pm$ 0.084 χ^2 /NDF: 564928513.5/11

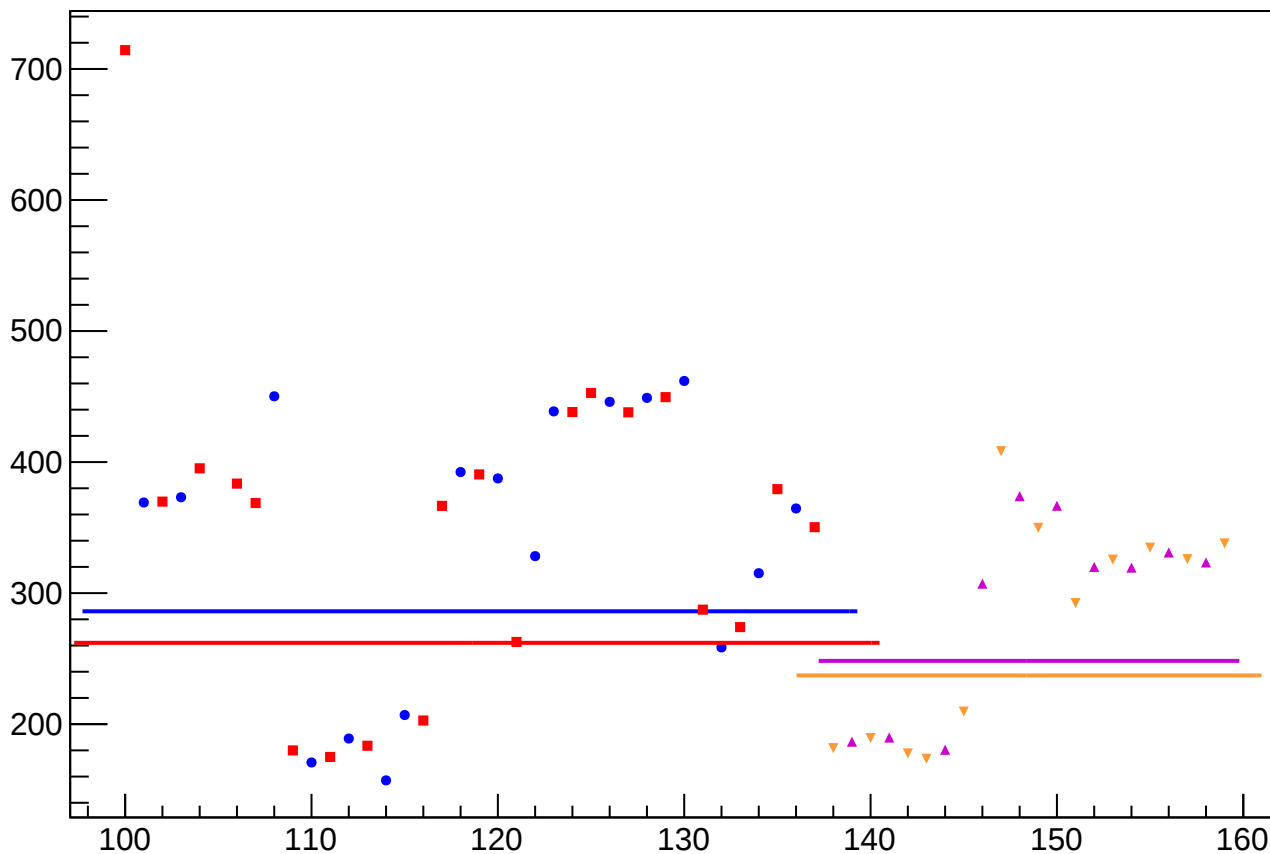
Right Out: 132847.502 $\pm$ 0.107 χ^2 /NDF: 151618589.4/19

Left In: 130506.149 $\pm$ 0.092 χ^2 /NDF: 433061939.5/9

131182.800 $\pm$ 0.069 χ^2 /NDF: 922304191.8/28

131503.388 $\pm$ 0.070 χ^2 /NDF: 860055483.4/29

yield_bpm0r05WS_rms vs Slug



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 237.185+/-0.060 χ^2/NDF :1508690.0/11

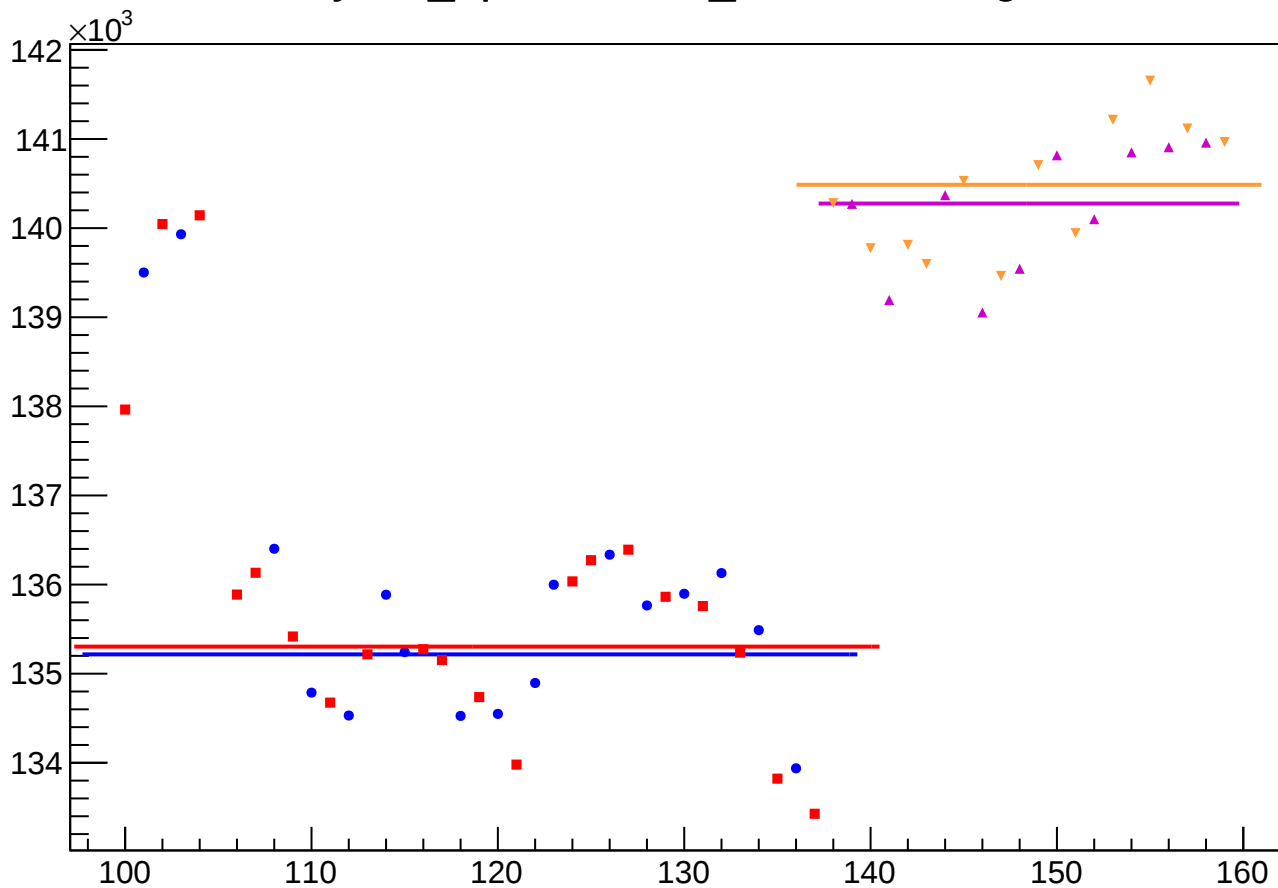
Right Out: 262.073+/-0.076 χ^2/NDF : 1630239.5/19

Left In: 248.297+/-0.065 χ^2/NDF :1296442.0/9

253.466+/-0.049 χ^2/NDF : 3258258.3/28

254.164+/-0.049 χ^2/NDF : 2945746.1/29

yield_bpm0i02WS_mean vs Slug



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140486.347 $\pm$ 0.062 χ^2 /NDF:123491739.2/11

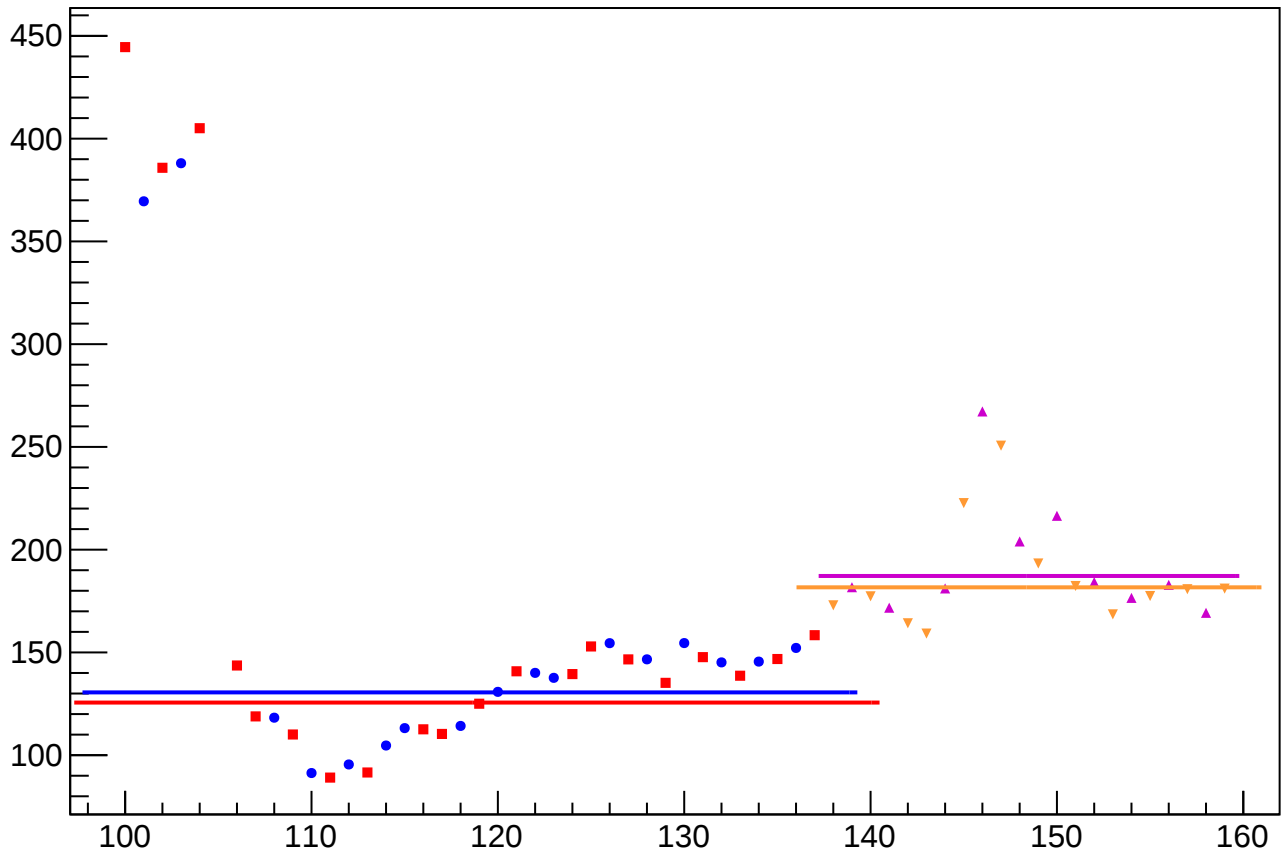
Right Out: 135303.736 $\pm$ 0.051 χ^2 /NDF: 357717935.5/19

Left In: 140275.706 $\pm$ 0.067 χ^2 /NDF:96167135.7/9

137508.449 $\pm$ 0.041 χ^2 /NDF: 4582580538.9/28

137123.897 $\pm$ 0.041 χ^2 /NDF: 3946241768.3/29

yield_bpm0i02WS_rms vs Slug



Right In: 130.552 ± 0.038 χ^2/NDF : 1373104.9/16

Left Out: 181.677 ± 0.044 χ^2/NDF : 217884.6/11

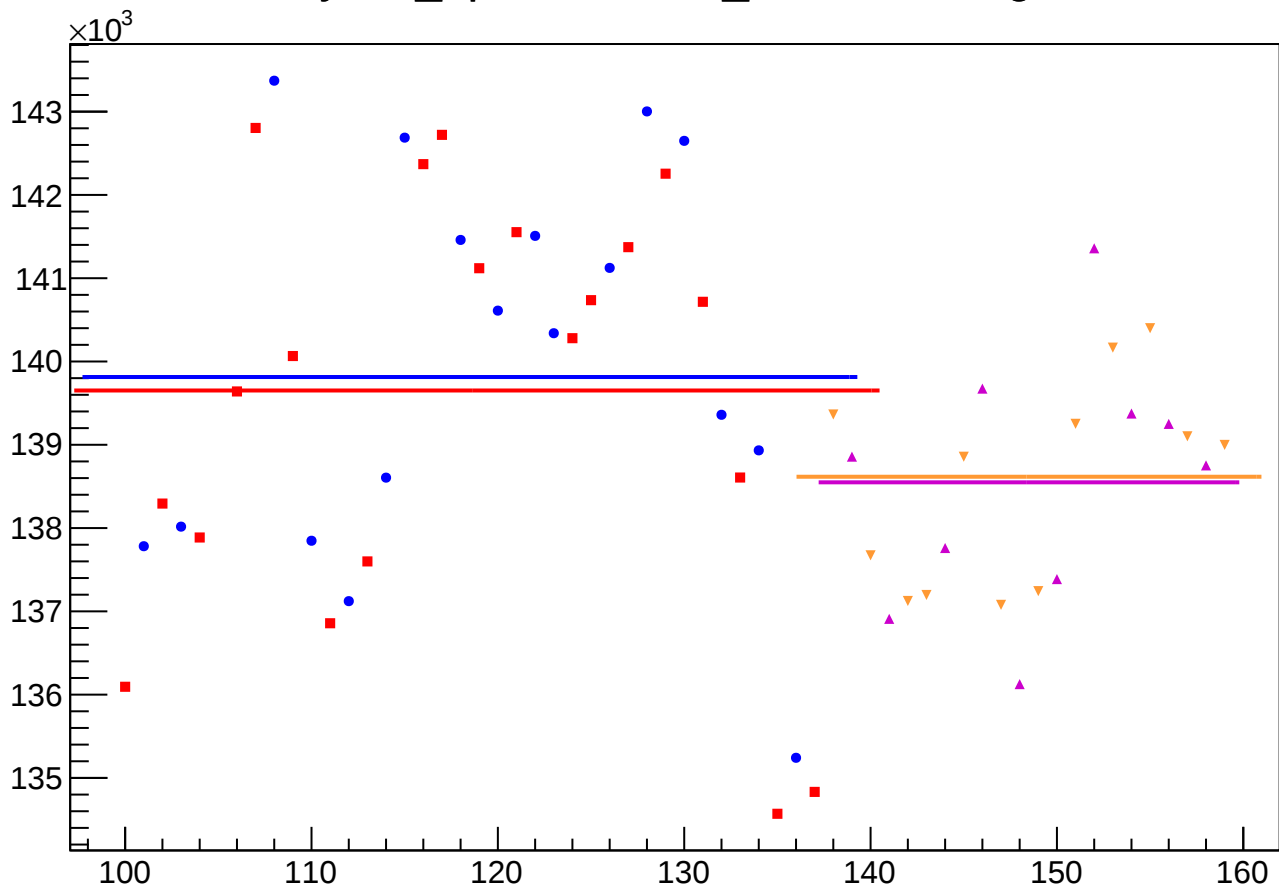
152.786 ± 0.029 χ^2/NDF : 2360489.0/28

Right Out: 125.603 ± 0.036 χ^2/NDF : 1441677.4/19

148.154 ± 0.029 χ^2/NDF : 2730161.9/29

Left In: 187.202 ± 0.047 χ^2/NDF : 216385.0/9

yield_bpm0i02aWS_mean vs Slug



Right In: 139813.664 ± 0.062 χ^2/NDF : 1689865533.6/16

Left Out: 138616.282 ± 0.064 χ^2/NDF : 326841593.8/11

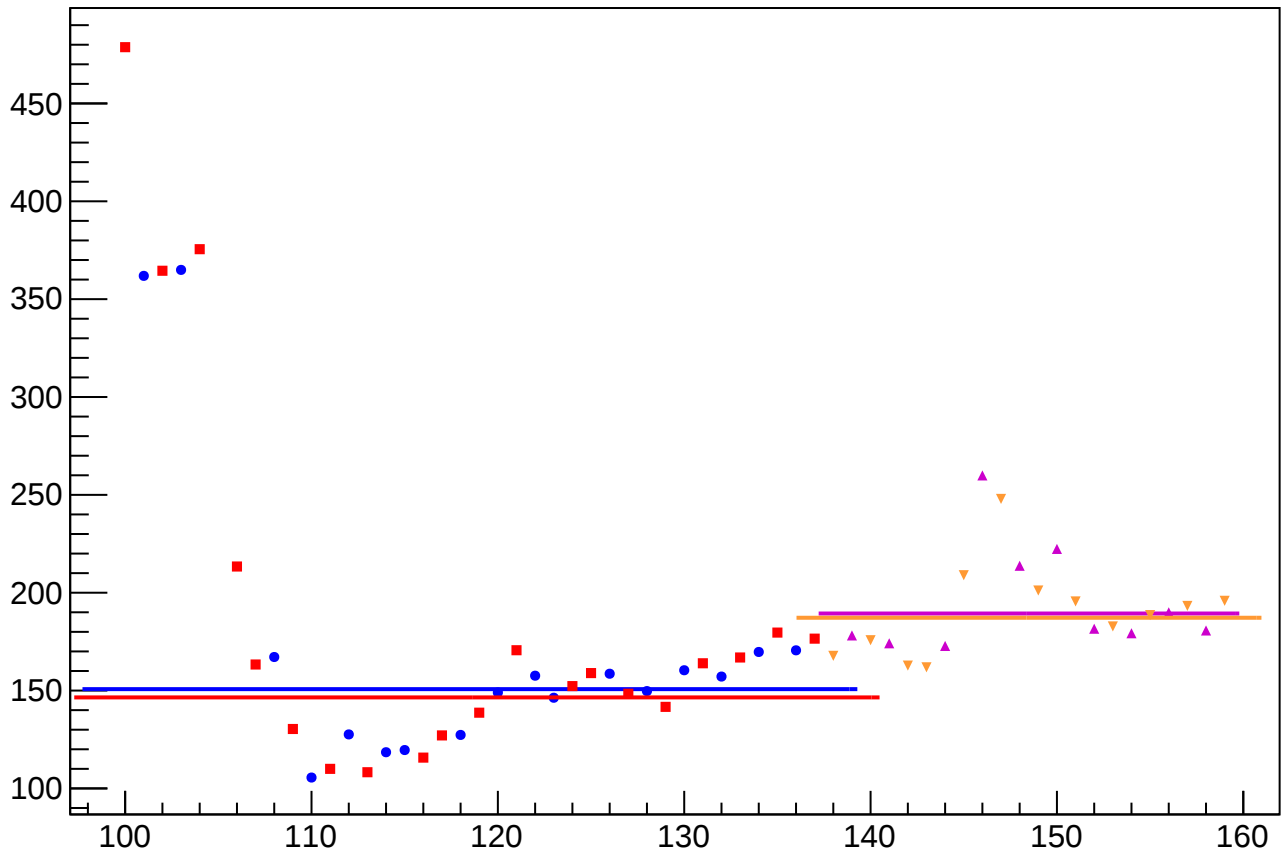
Right Out: 139651.821 ± 0.059 χ^2/NDF : 1531019137.4/19

Left In: 138549.135 ± 0.068 χ^2/NDF : 448316086.5/9

139234.381 ± 0.044 χ^2/NDF : 2197602924.8/28

139178.992 ± 0.044 χ^2/NDF : 2130402736.3/29

yield_bpm0i02aWS_rms vs Slug



Right In: 150.733+/-0.044 χ^2/NDF : 1050071.6/16

Left Out: 187.204+/-0.045 χ^2/NDF :199595.8/11

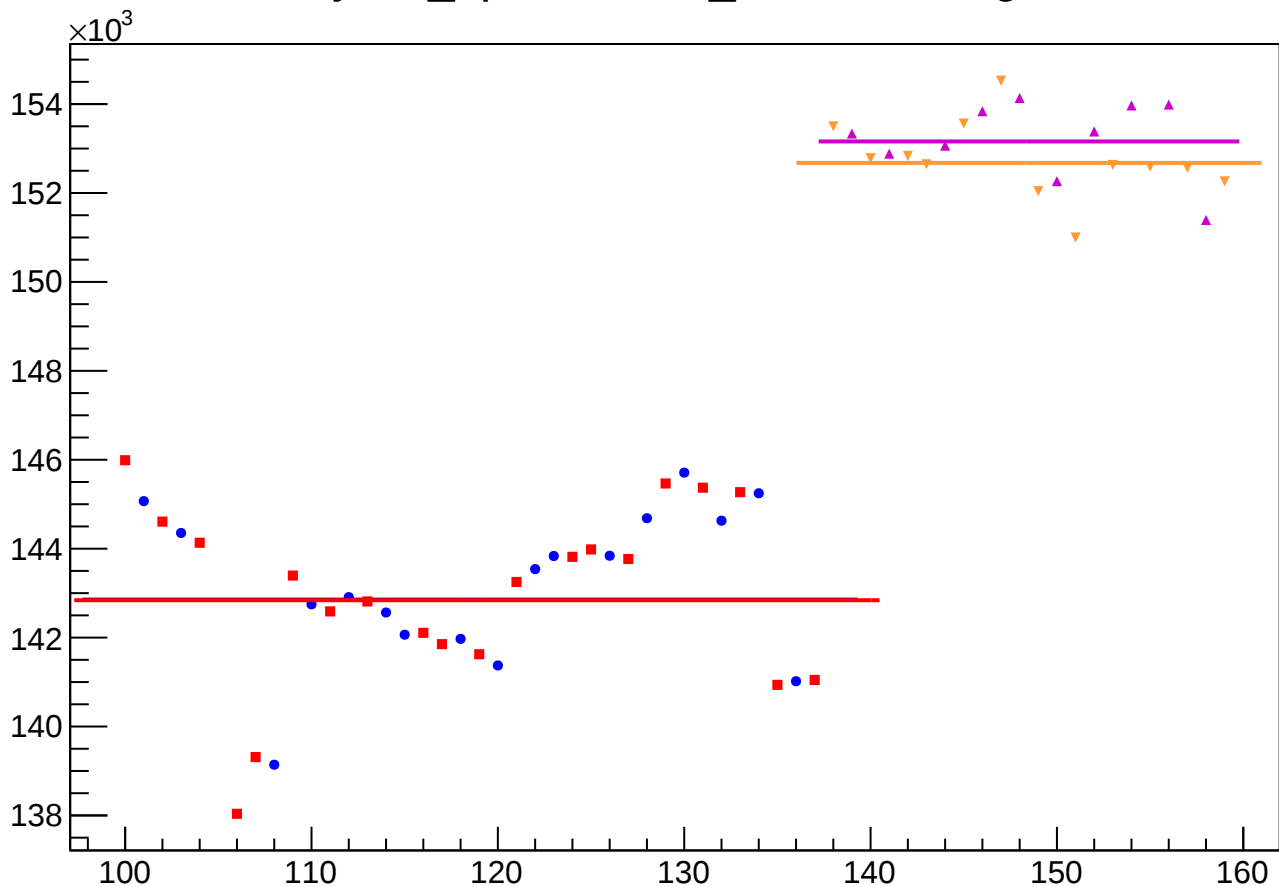
Right Out: 146.506+/-0.042 χ^2/NDF : 1205131.2/19

Left In: 189.372+/-0.048 χ^2/NDF :215200.6/9

168.378+/-0.031 χ^2/NDF : 1585325.7/28

164.887+/-0.031 χ^2/NDF : 1876926.4/29

yield_bpm0i05WS_mean vs Slug



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16

Left Out: 152677.208 $\pm$ 0.065 χ^2 /NDF: 142352382.6/11

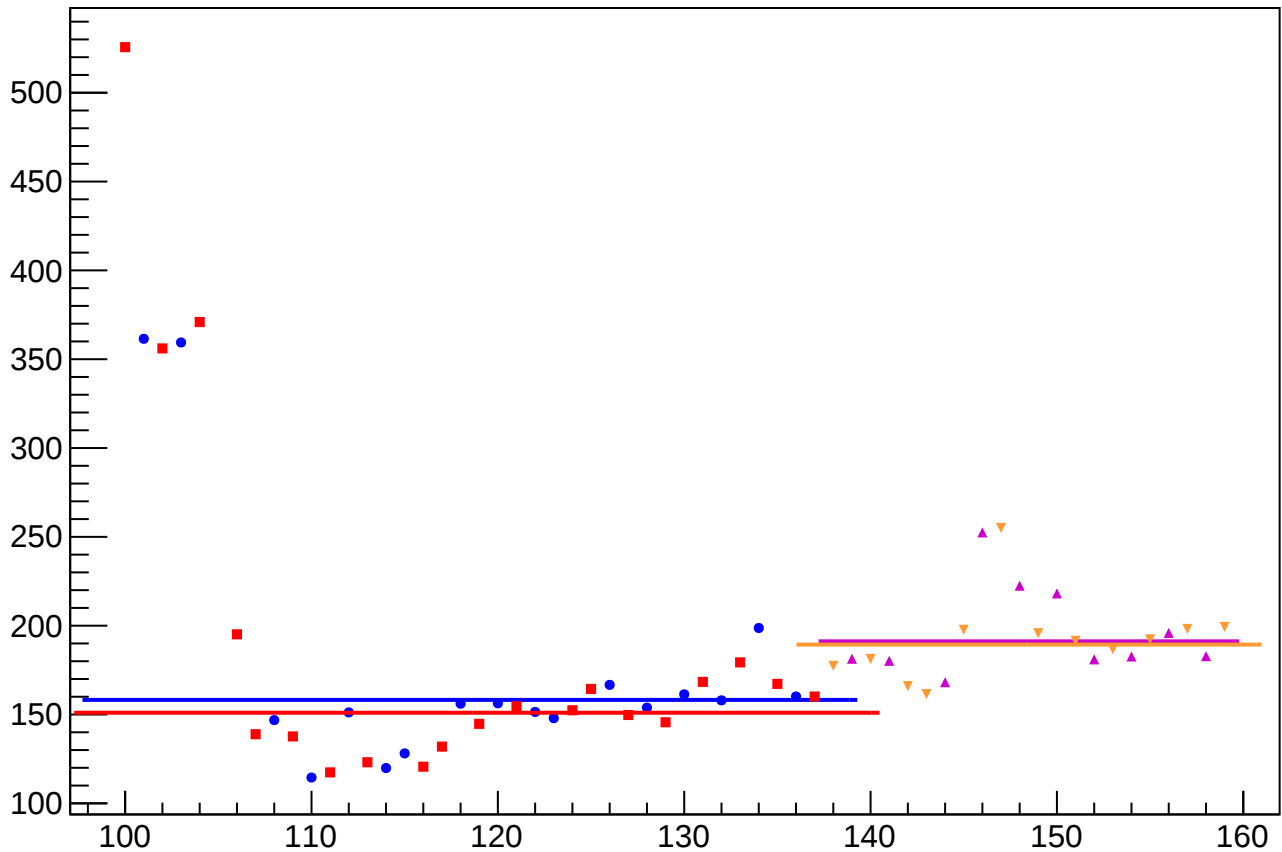
Right Out: 142840.509 $\pm$ 0.060 χ^2 /NDF: 852484333.4/19

Left In: 153159.716 $\pm$ 0.068 χ^2 /NDF: 144587325.1/9

147776.027 $\pm$ 0.046 χ^2 /NDF: 12445361090.7/2

147348.238 $\pm$ 0.045 χ^2 /NDF: 13863686672.3/2

yield_bpm0i05WS_rms vs Slug



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 189.358+/-0.046 χ^2/NDF :179226.1/11

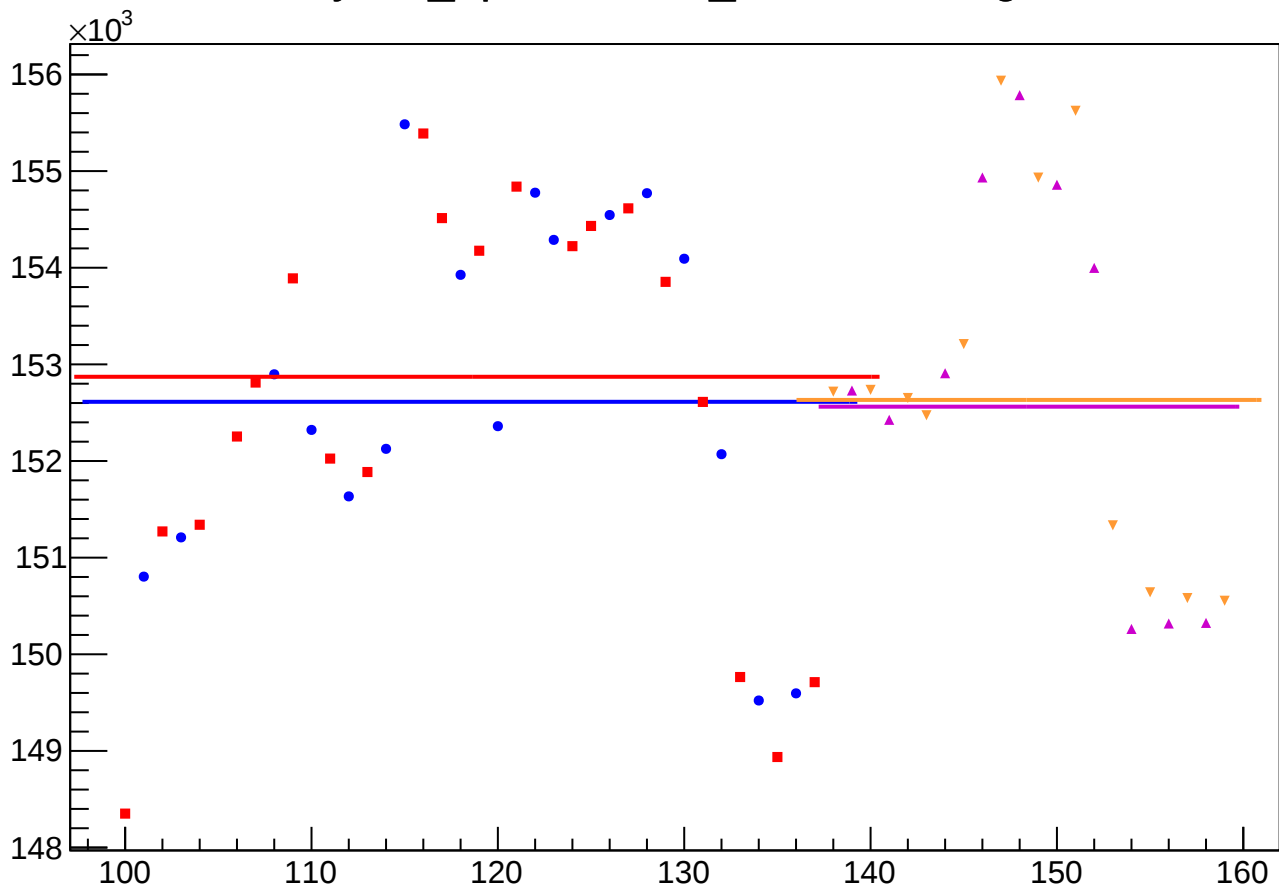
Right Out: 151.003+/-0.043 χ^2/NDF : 1005104.9/19

Left In: 191.191+/-0.048 χ^2/NDF :203759.2/9

173.828+/-0.032 χ^2/NDF : 1294925.8/28

168.559+/-0.032 χ^2/NDF : 1599166.2/29

yield_bpm0i07WS_mean vs Slug



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152632.098 $\pm$ 0.065 χ^2 /NDF: 694877693.3/11

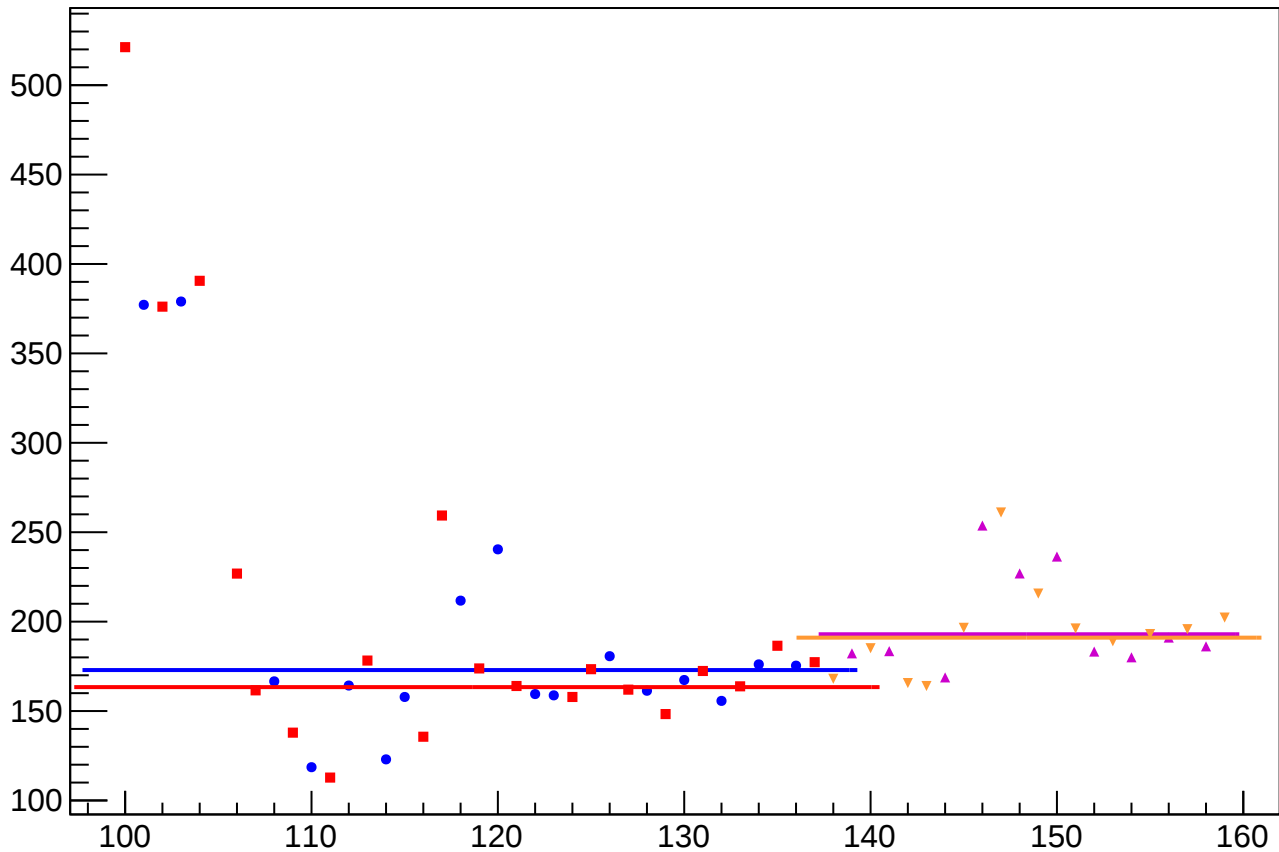
Right Out: 152871.618 $\pm$ 0.066 χ^2 /NDF: 720639345.6/19

Left In: 152562.188 $\pm$ 0.069 χ^2 /NDF: 718752062.8/9

152623.376 $\pm$ 0.048 χ^2 /NDF: 1316334309.4/28

152723.002 $\pm$ 0.048 χ^2 /NDF: 1449906057.8/29

yield_bpm0i07WS_rms vs Slug



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 191.040+/-0.046 χ^2/NDF : 224335.7/11

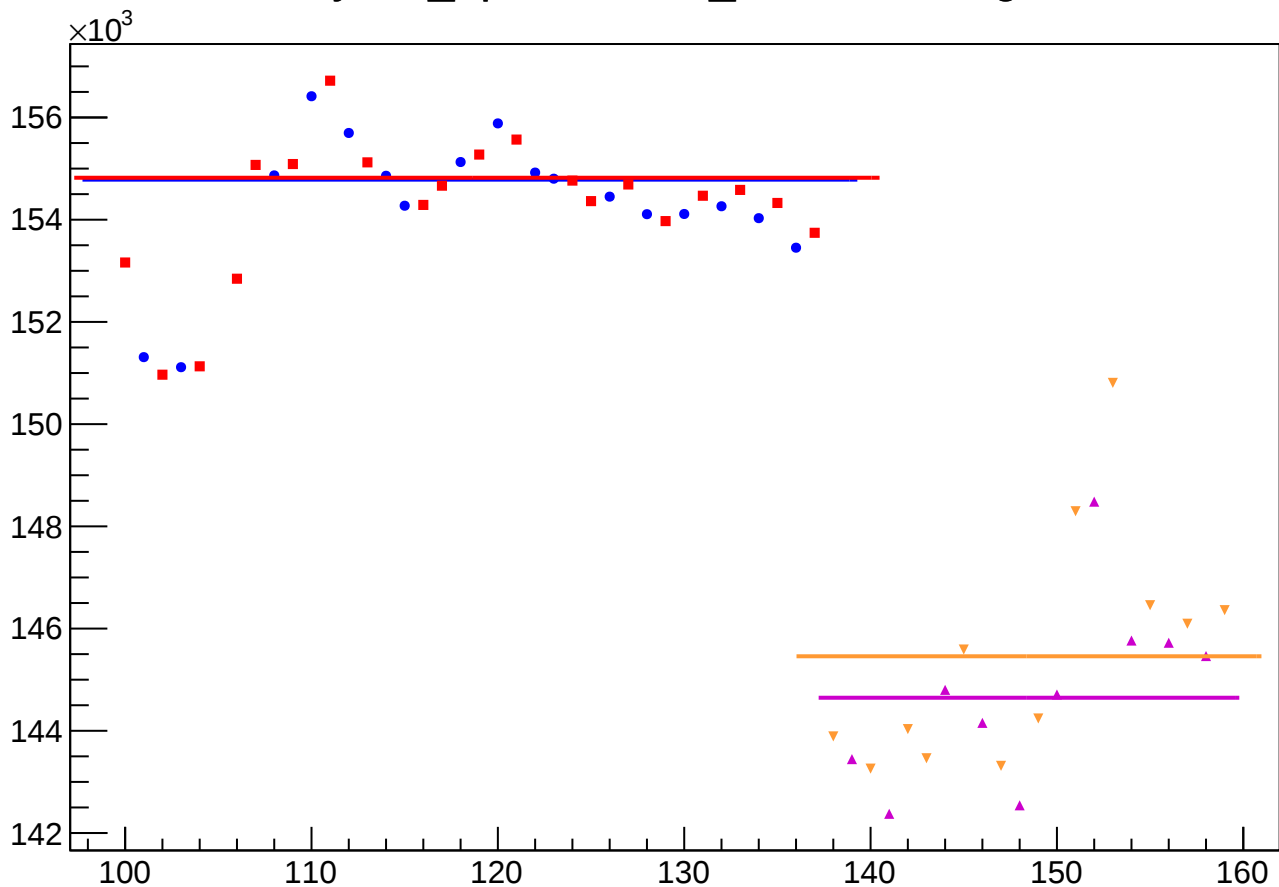
182.941+/-0.034 χ^2/NDF : 1236016.6/28

Right Out: 163.382+/-0.047 χ^2/NDF : 1044431.2/19

177.578+/-0.034 χ^2/NDF : 1478460.7/29

Left In: 192.940+/-0.049 χ^2/NDF : 242137.7/9

yield_bpm1i02WS_mean vs Slug



Right In: 154783.944 $\pm$ 0.065 χ^2 /NDF: 265581398.0/16

Left Out: 145457.965 $\pm$ 0.059 χ^2 /NDF: 1455182559.9/11

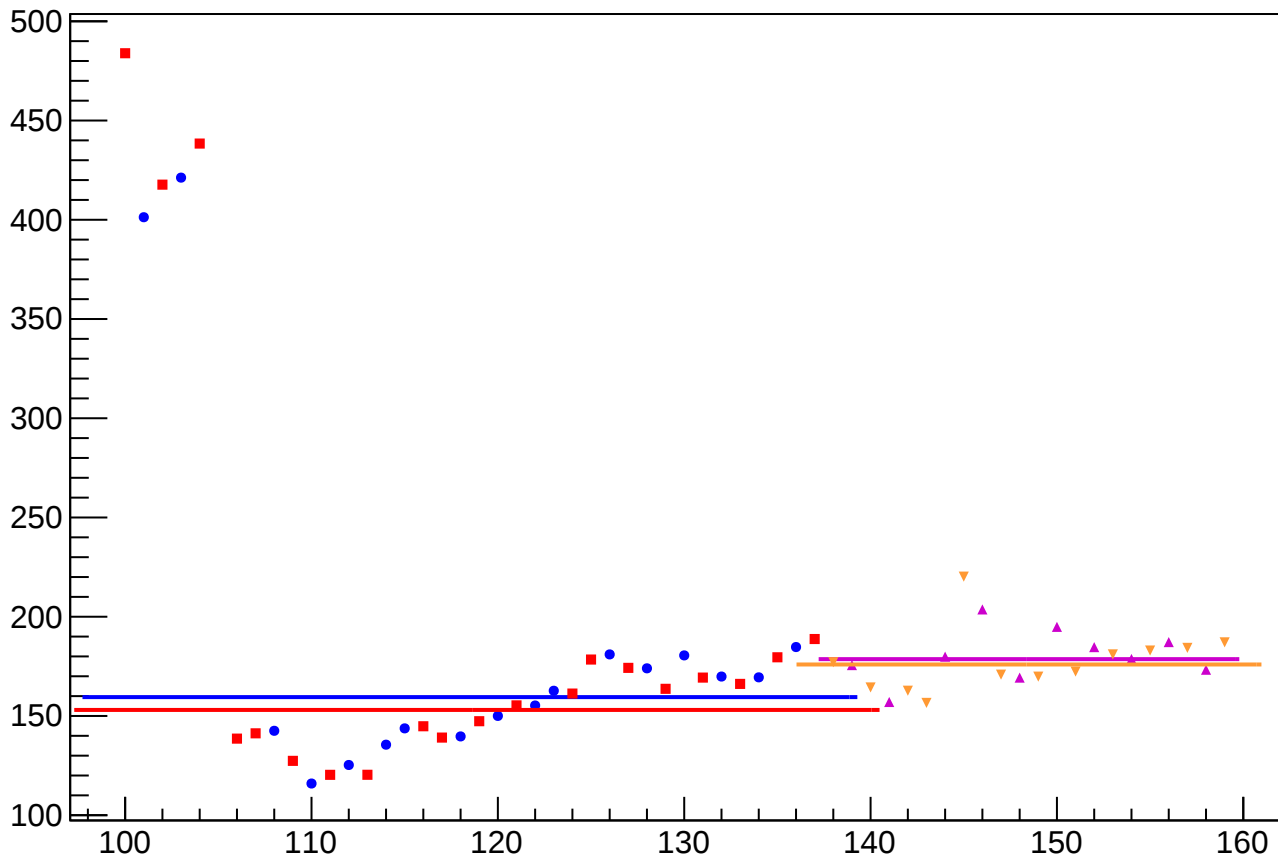
Right Out: 154820.824 $\pm$ 0.061 χ^2 /NDF: 293904936.4/19

Left In: 144646.821 $\pm$ 0.063 χ^2 /NDF: 764505363.3/9

149675.165 $\pm$ 0.044 χ^2 /NDF: 12870940827.4/2

149941.824 $\pm$ 0.044 χ^2 /NDF: 14559121182.3/2

yield_bpm1i02WS_rms vs Slug



Right In: 159.504 ± 0.046 χ^2/NDF : 1131844.5/16

Left Out: 175.940 ± 0.042 χ^2/NDF : 111767.6/11

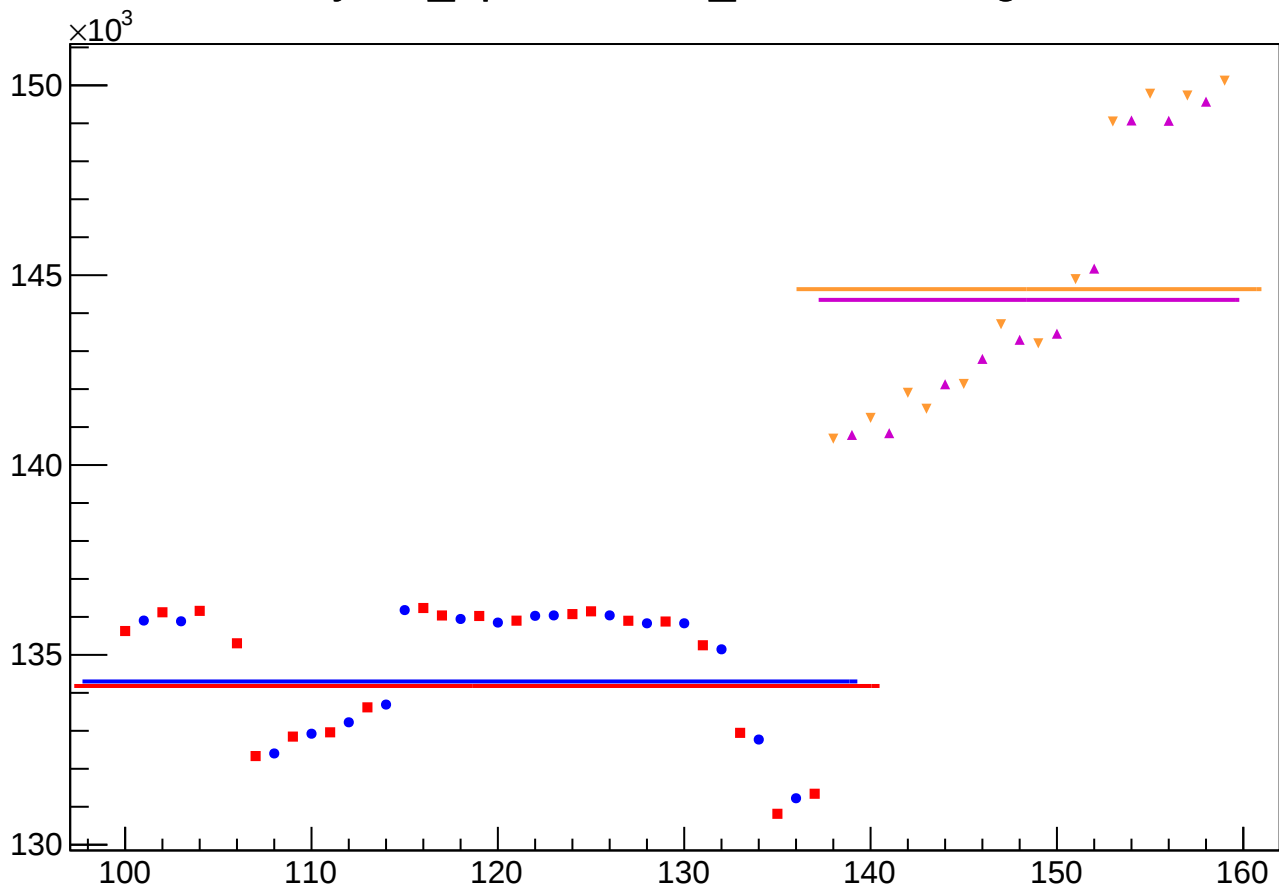
Right Out: 153.038 ± 0.043 χ^2/NDF : 1174616.4/19

Left In: 178.634 ± 0.045 χ^2/NDF : 79198.7/9

168.507 ± 0.031 χ^2/NDF : 1312878.1/28

165.312 ± 0.031 χ^2/NDF : 1424717.7/29

yield_bpm1i04WS_mean vs Slug



Right In: 134300.025 $\pm$ 0.050 χ^2 /NDF: 1149581803.2/16

Left Out: 144632.224 $\pm$ 0.059 χ^2 /NDF: 3494706049.2/11

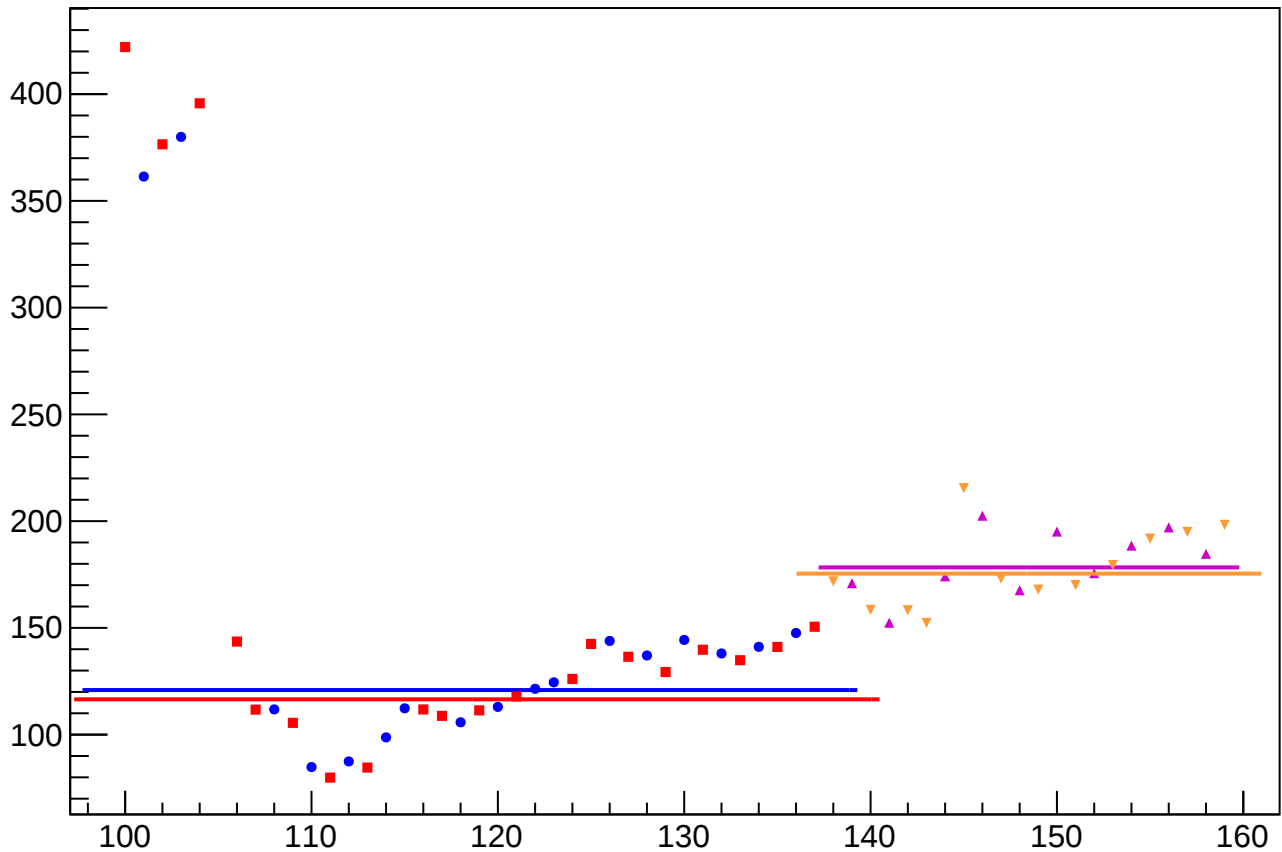
Right Out: 134180.888 $\pm$ 0.047 χ^2 /NDF: 1224202240.2/19

Left In: 144349.960 $\pm$ 0.063 χ^2 /NDF: 2599627435.8/9

138622.808 $\pm$ 0.038 χ^2 /NDF: 22267776165.8/2

137821.617 $\pm$ 0.038 χ^2 /NDF: 20442385368.9/2

yield_bpm1i04WS_rms vs Slug



Right In: 120.872+/-0.036 χ^2/NDF : 1463728.4/16

Left Out: 175.408+/-0.042 χ^2/NDF : 164948.9/11

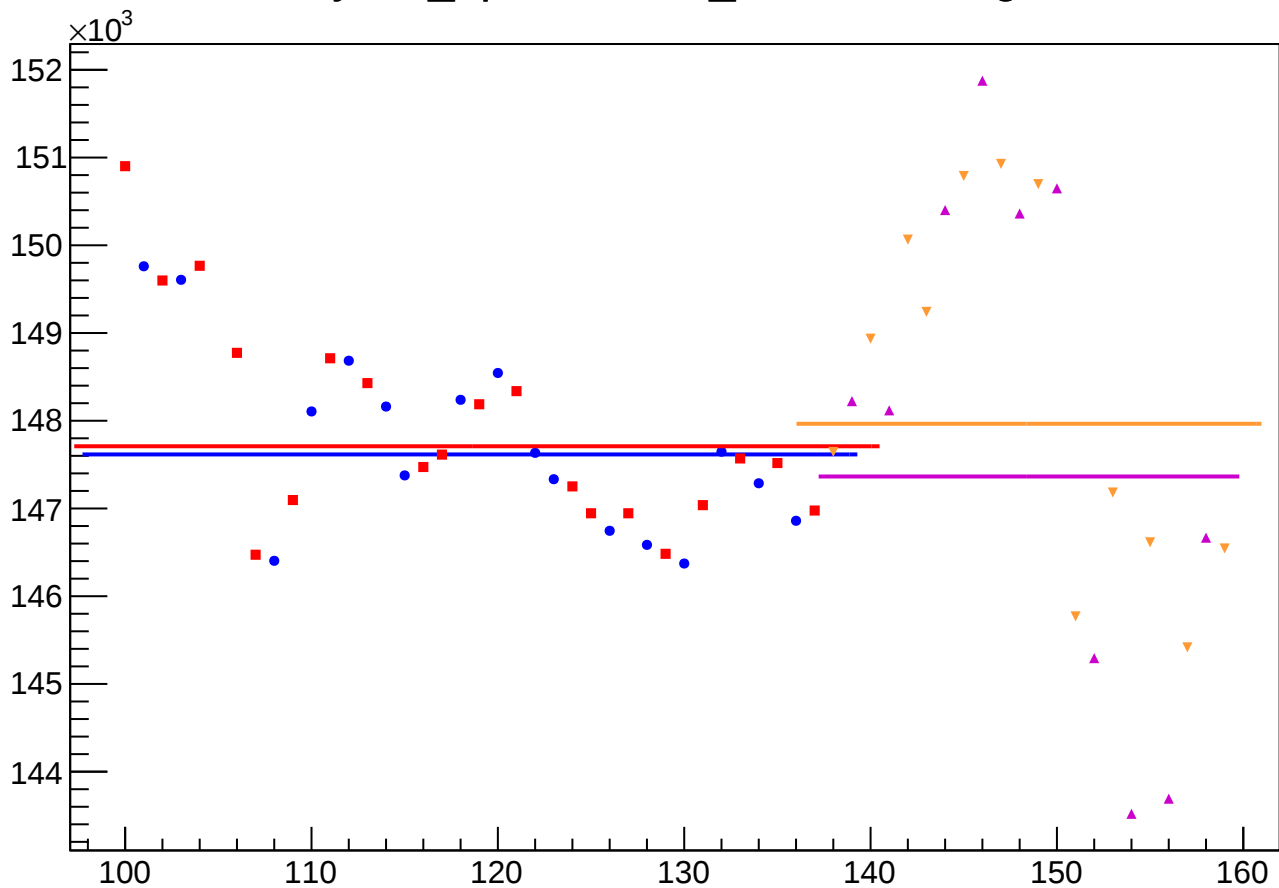
Right Out: 116.531+/-0.033 χ^2/NDF : 1541779.4/19

Left In: 178.327+/-0.045 χ^2/NDF : 114227.6/9

143.689+/-0.027 χ^2/NDF : 2610653.9/28

138.655+/-0.027 χ^2/NDF : 2883386.1/29

yield_bpm1i06WS_mean vs Slug



Right In: 147616.150 ± 0.062 χ^2/NDF : 199263428.7/16

Left Out: 147965.470 ± 0.067 χ^2/NDF : 792423726.3/11

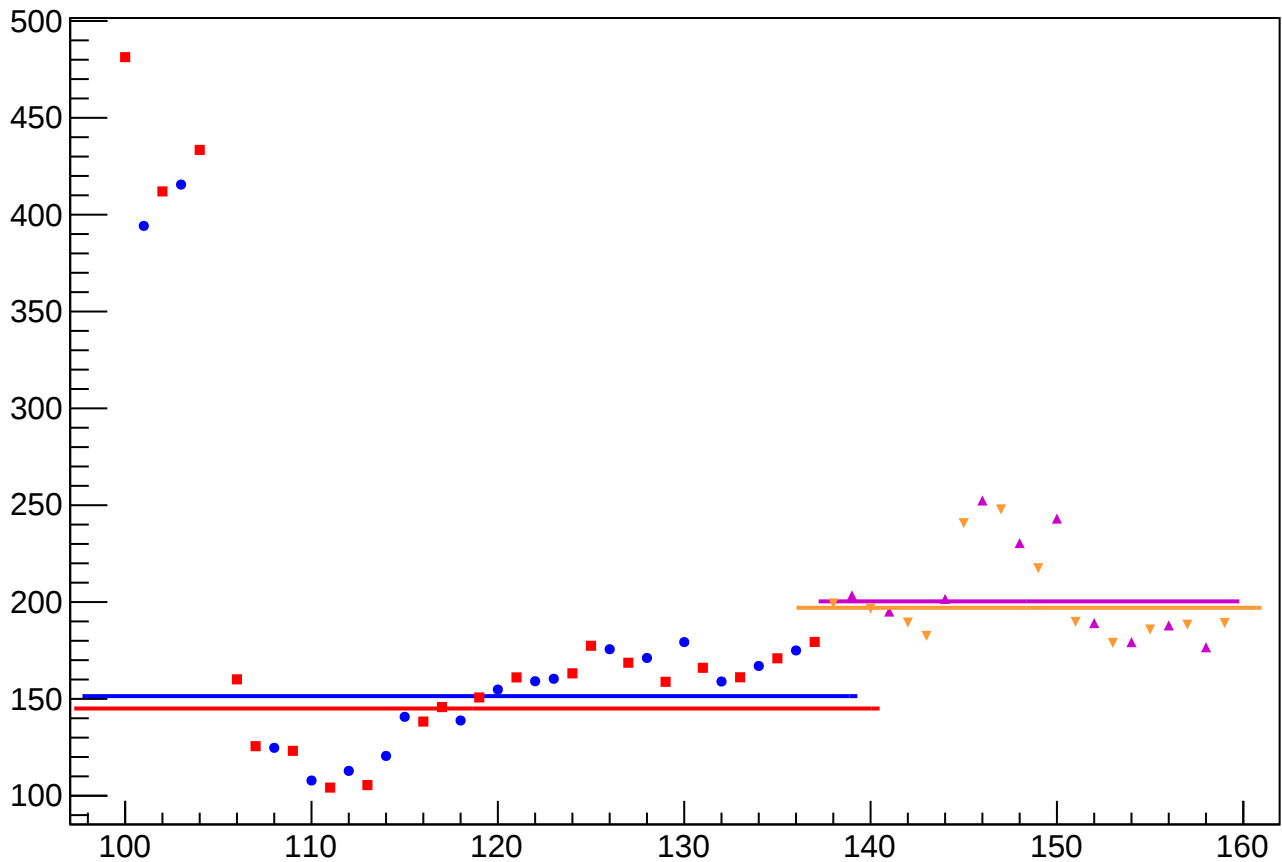
Right Out: 147709.096 ± 0.058 χ^2/NDF : 203924272.1/19

Left In: 147364.637 ± 0.071 χ^2/NDF : 1541378181.0/9

147779.400 ± 0.046 χ^2/NDF : 1006293656.5/28

147571.311 ± 0.045 χ^2/NDF : 1759346008.5/29

yield_bpm1i06WS_rms vs Slug



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 197.035+/-0.047 χ^2/NDF : 169753.0/11

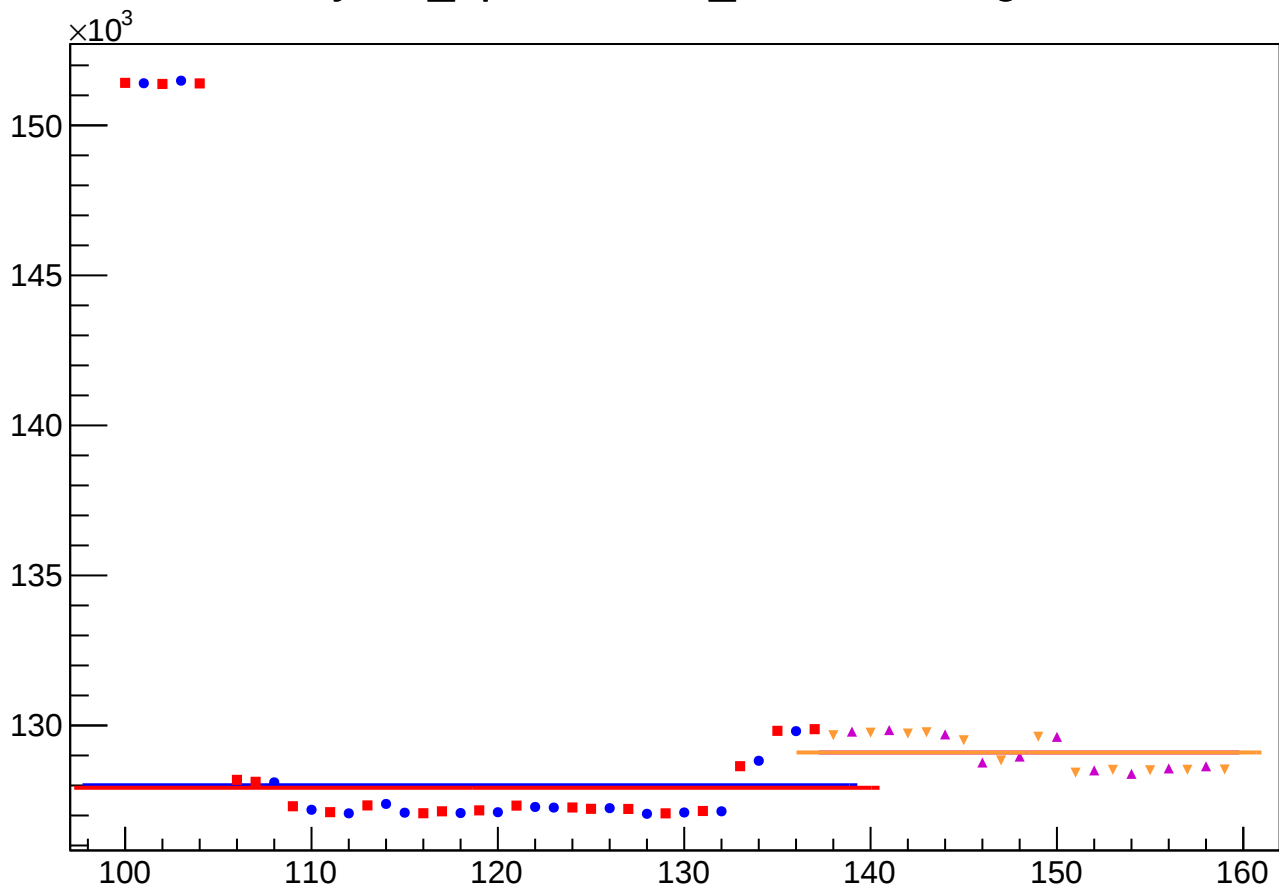
172.740+/-0.032 χ^2/NDF : 1925633.1/28

Right Out: 145.044+/-0.041 χ^2/NDF : 1375974.1/19

167.169+/-0.032 χ^2/NDF : 2314036.0/29

Left In: 200.354+/-0.050 χ^2/NDF : 213890.3/9

yield_bpm2i01WS_mean vs Slug



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16

Left Out: 129100.157 $\pm$ 0.058 χ^2 /NDF: 97644053.5/11

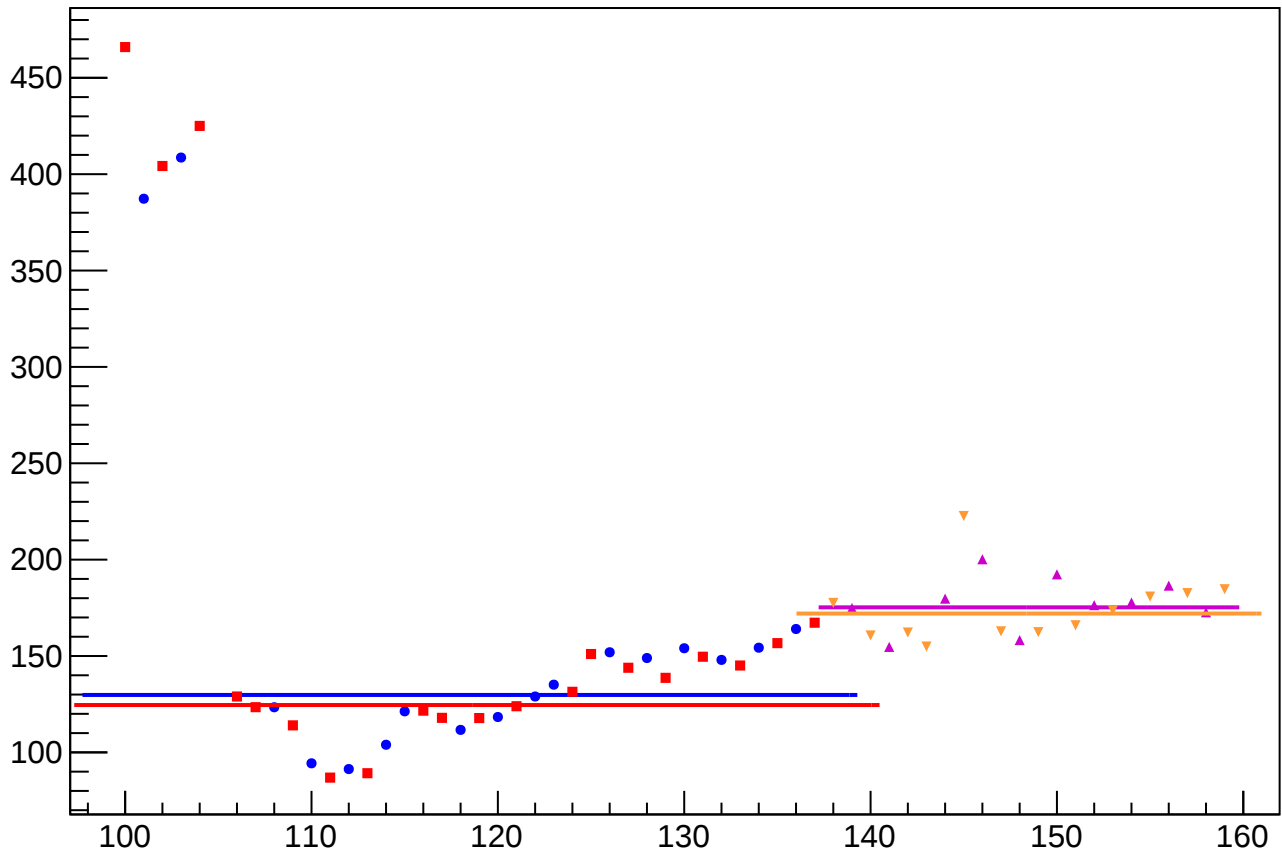
Right Out: 127923.940 $\pm$ 0.050 χ^2 /NDF: 3770107280.1/19

Left In: 129099.865 $\pm$ 0.062 χ^2 /NDF: 83378787.3/9

128515.423 $\pm$ 0.040 χ^2 /NDF: 4606959585.9/28

128389.203 $\pm$ 0.039 χ^2 /NDF: 4070733544.4/29

yield_bpm2i01WS_rms vs Slug



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 172.031 $\pm$ 0.041 χ^2 /NDF:136680.3/11

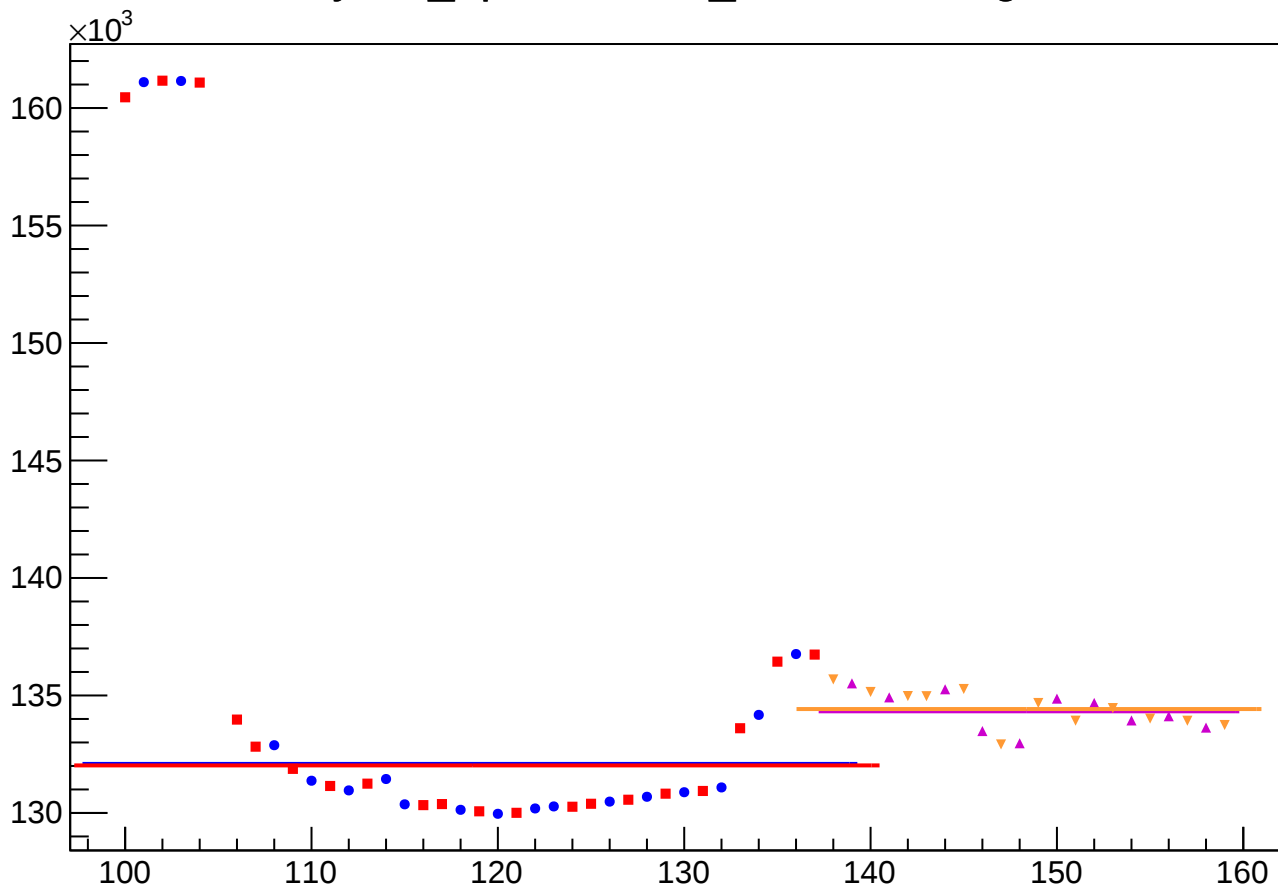
Right Out: 124.572 $\pm$ 0.035 χ^2 /NDF: 1532105.0/19

Left In: 175.248 $\pm$ 0.044 χ^2 /NDF:93260.1/9

149.432 $\pm$ 0.028 χ^2 /NDF: 2188191.0/28

144.622 $\pm$ 0.028 χ^2 /NDF: 2432283.0/29

yield_bpm2i02WS_mean vs Slug



Right In: 132086.794 $\pm$ 0.057 χ^2 /NDF: 6733230928.7/16

Left Out: 134422.081 $\pm$ 0.060 χ^2 /NDF: 159593611.2/11

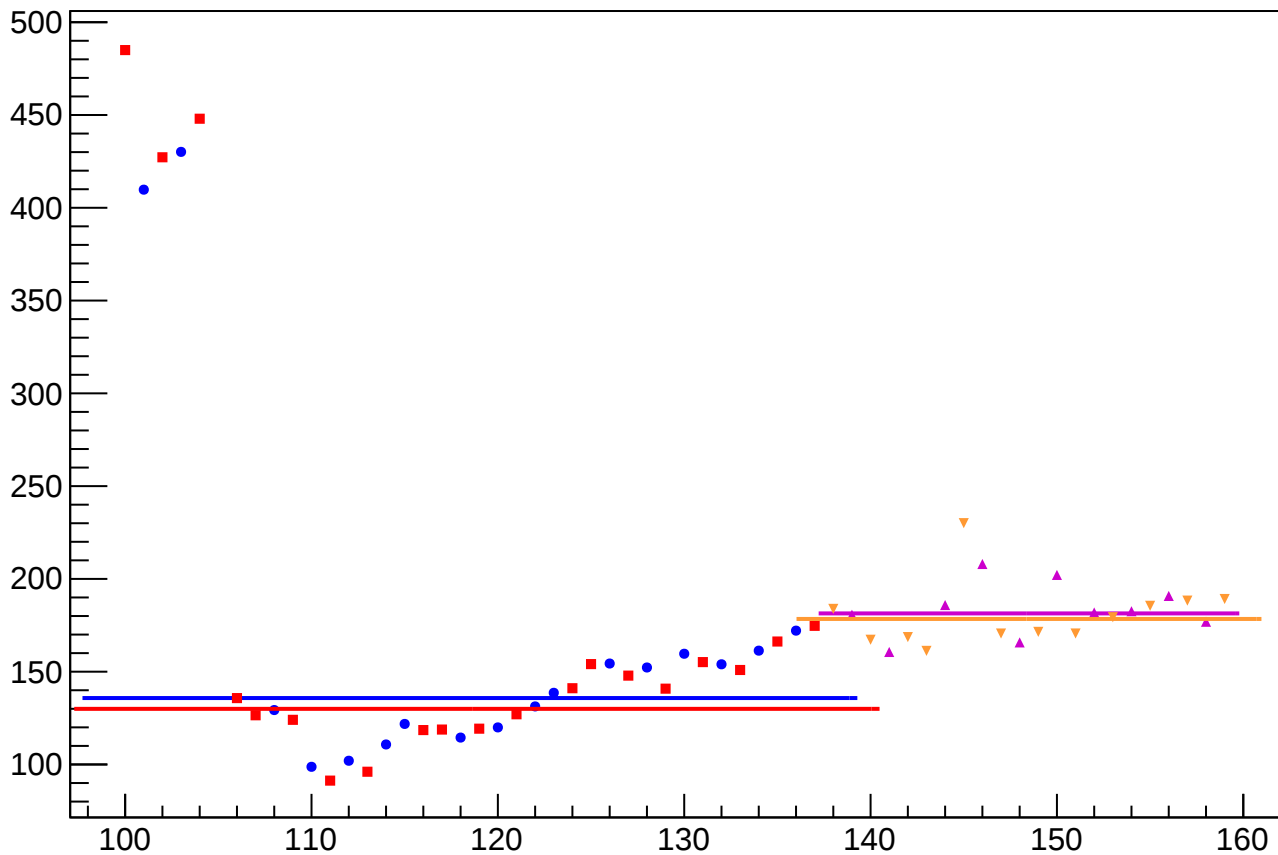
Right Out: 132023.609 $\pm$ 0.052 χ^2 /NDF: 5890492527.2/19

Left In: 134325.822 $\pm$ 0.064 χ^2 /NDF: 155517143.5/9

133180.895 $\pm$ 0.041 χ^2 /NDF: 7692499102.5/28

132942.049 $\pm$ 0.041 χ^2 /NDF: 6818777436.0/29

yield_bpm2i02WS_rms vs Slug



Right In: 135.796 ± 0.040 χ^2/NDF : 1441904.9/16

Left Out: 178.424 ± 0.043 χ^2/NDF : 124111.8/11

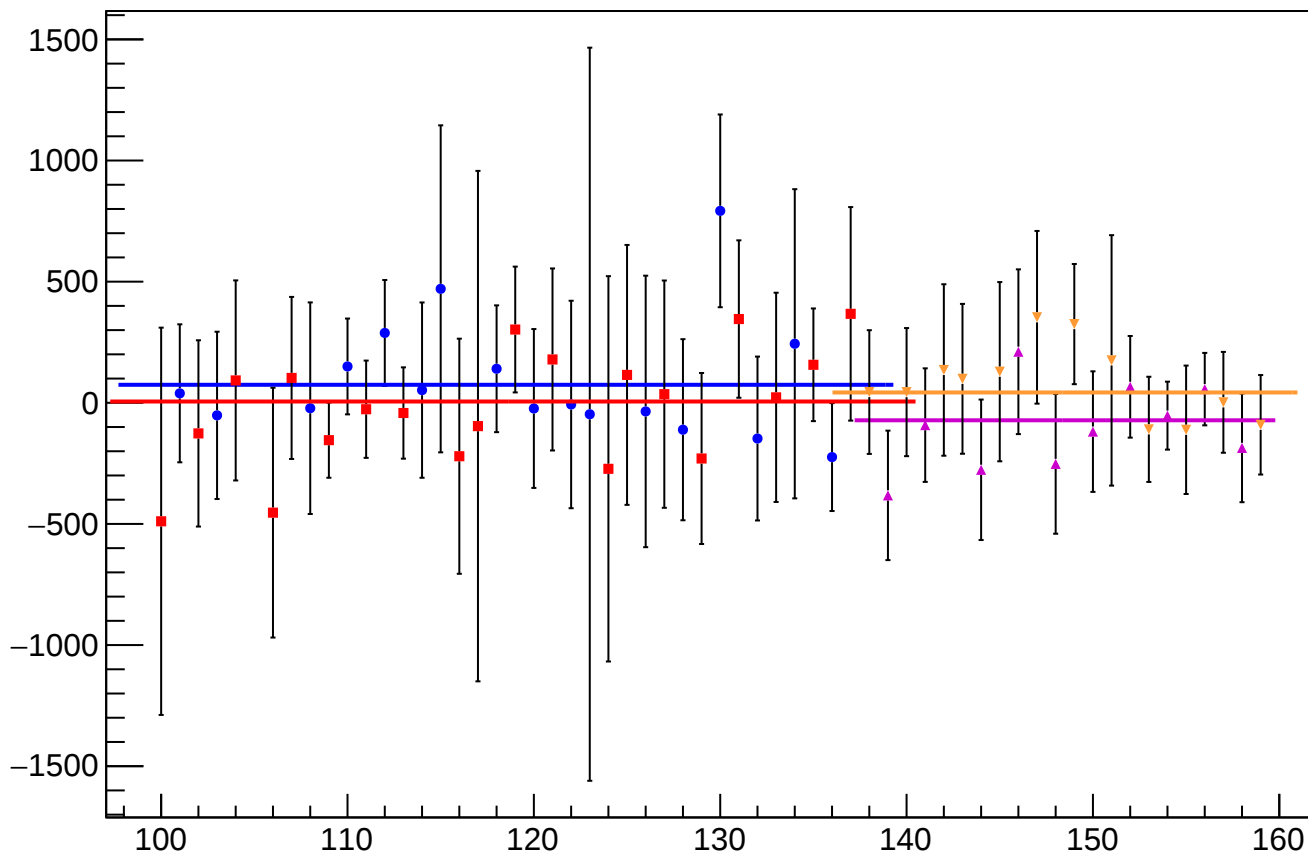
Right Out: 129.975 ± 0.037 χ^2/NDF : 1504768.0/19

Left In: 181.410 ± 0.045 χ^2/NDF : 91831.4/9

155.768 ± 0.029 χ^2/NDF : 2098918.8/28

150.494 ± 0.029 χ^2/NDF : 2368030.6/29

asym_bcm_an_ds_mean vs Slug



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 42.639+/-77.731 χ^2/NDF : 3.6/11

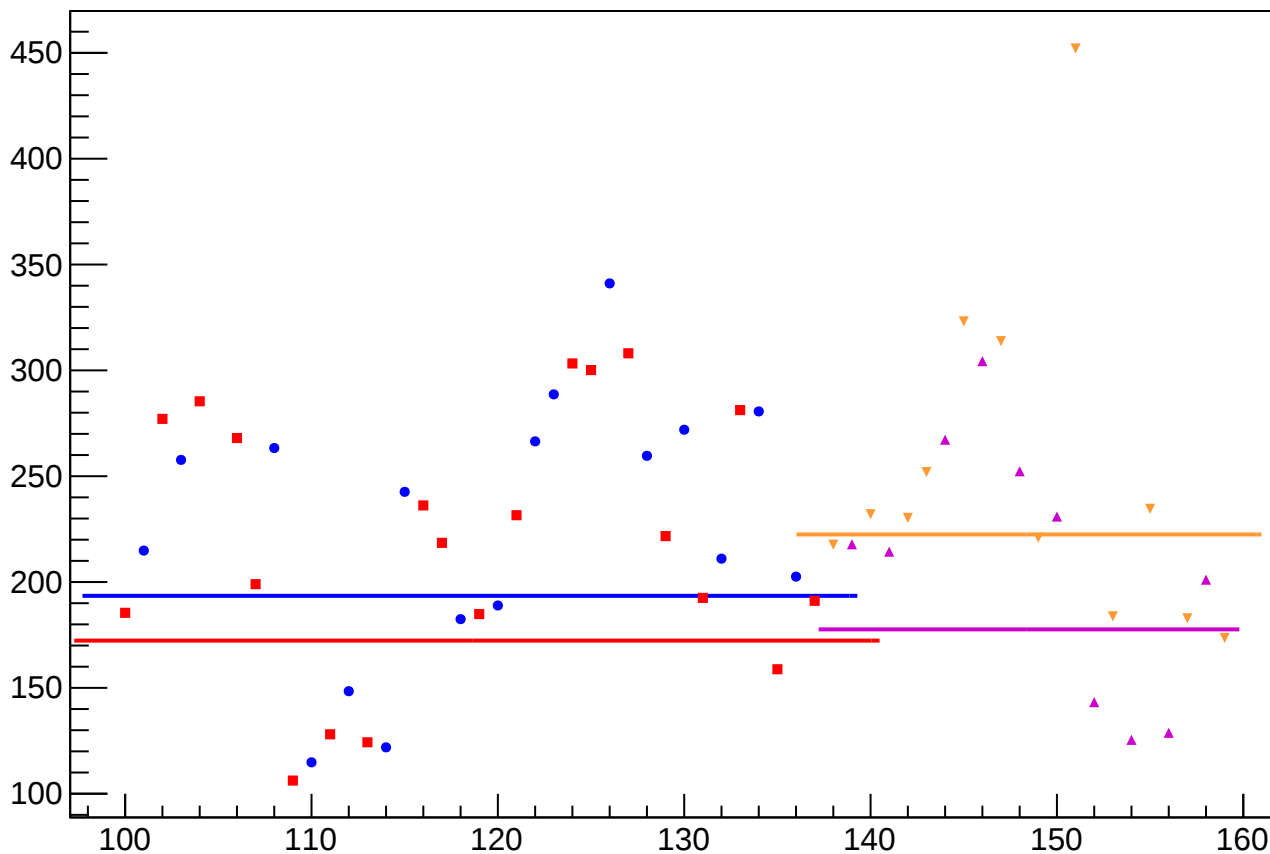
Right Out: 5.290+/-69.914 χ^2/NDF : 7.1/19

Left In: -72.224+/-67.551 χ^2/NDF : 4.4/9

58.207+/-55.414 χ^2/NDF : 11.3/28

-34.799+/-48.580 χ^2/NDF : 12.2/29

asym_bcm_an_ds_rms vs Slug



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 222.484+/-0.055 χ^2/NDF : 950310.1/11

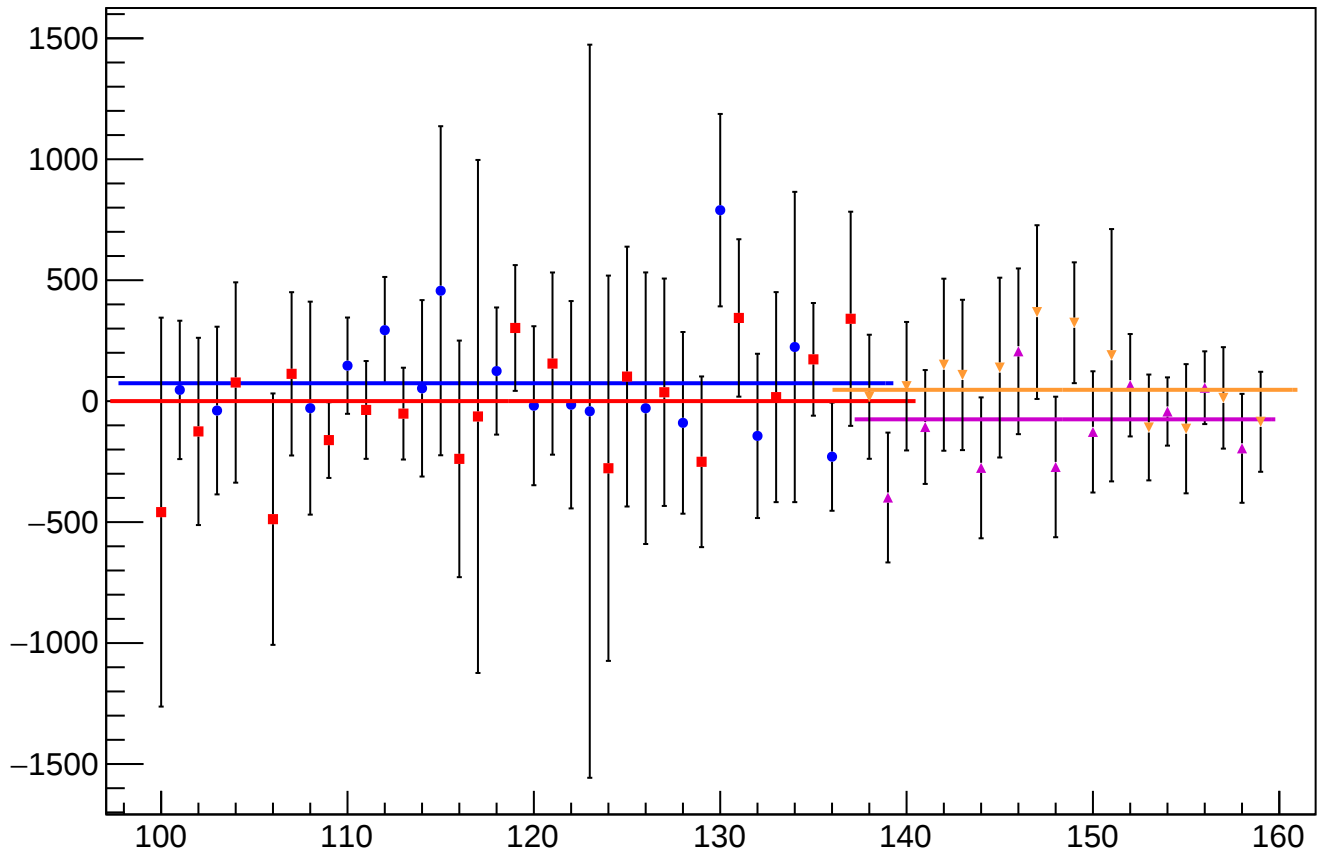
208.224+/-0.039 χ^2/NDF : 2104377.3/28

Right Out: 172.327+/-0.049 χ^2/NDF : 1583701.4/19

175.073+/-0.034 χ^2/NDF : 2945157.6/29

Left In: 177.636+/-0.048 χ^2/NDF : 1355490.3/9

asym_bcm_an_ds3_mean vs Slug



Right In: 74.098+/-79.404 χ^2/NDF : 7.6/16

Left Out: 46.895+/-78.227 χ^2/NDF : 3.6/11

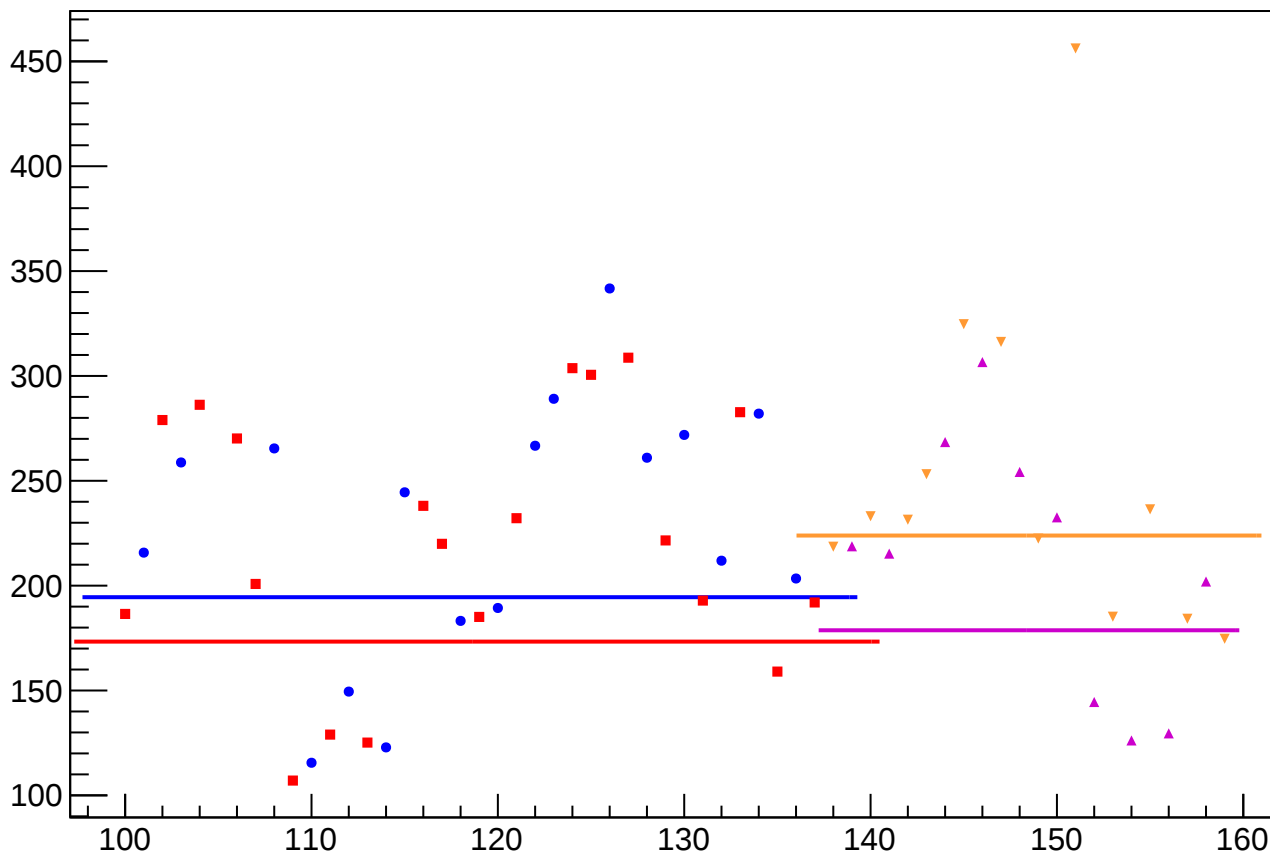
Right Out: 0.223+/-70.282 χ^2/NDF : 7.3/19

Left In: -75.114+/-67.962 χ^2/NDF : 4.7/9

60.293+/-55.726 χ^2/NDF : 11.2/28

-38.710+/-48.856 χ^2/NDF : 12.6/29

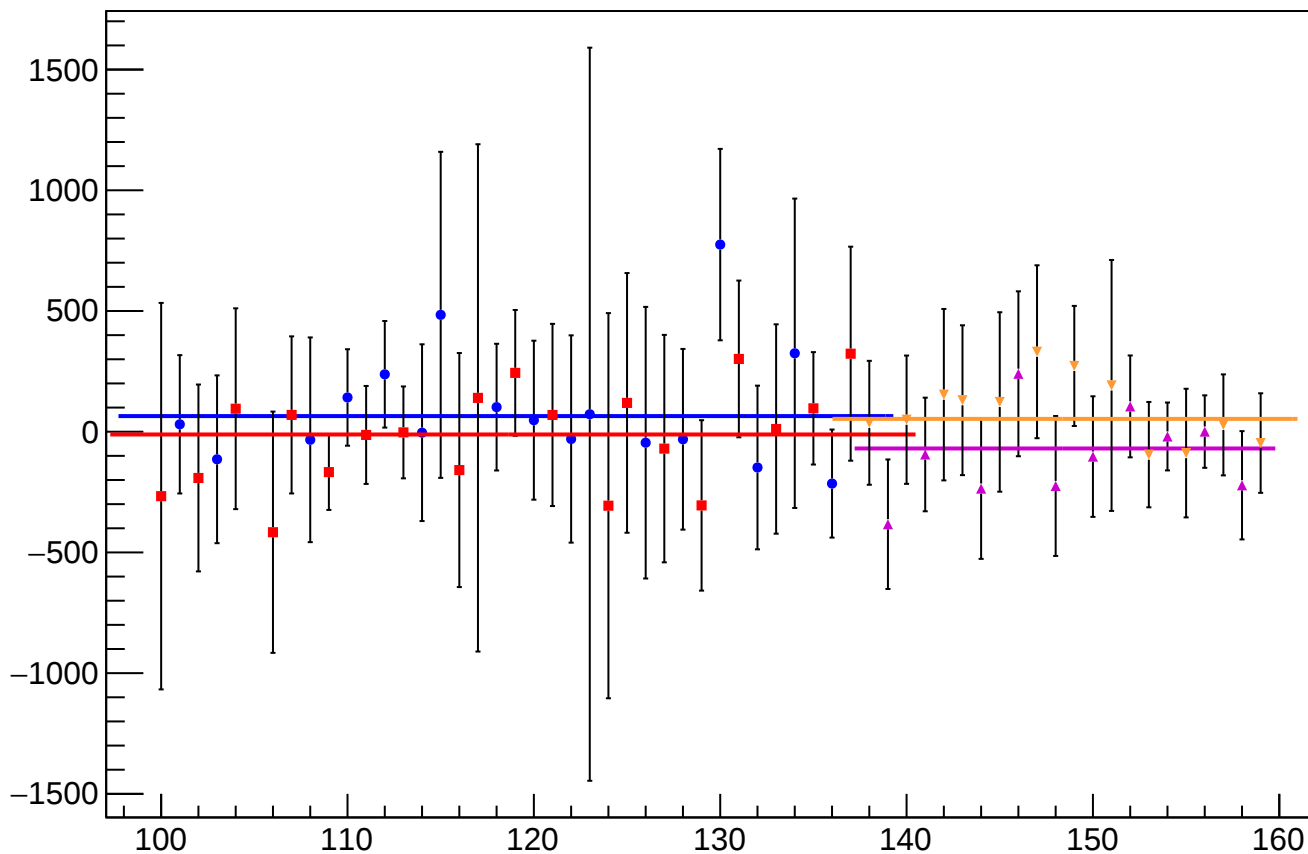
asym_bcm_an_ds3_rms vs Slug



209.416 +/- 0.039 $\chi^2/\text{NDF}: 2097492.7/28$

176.109 +/- 0.035 $\chi^2/\text{NDF}: 2930851.5/29$

asym_bcm_an_us_mean vs Slug



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 53.185+/-78.075 χ^2/NDF : 2.6/11

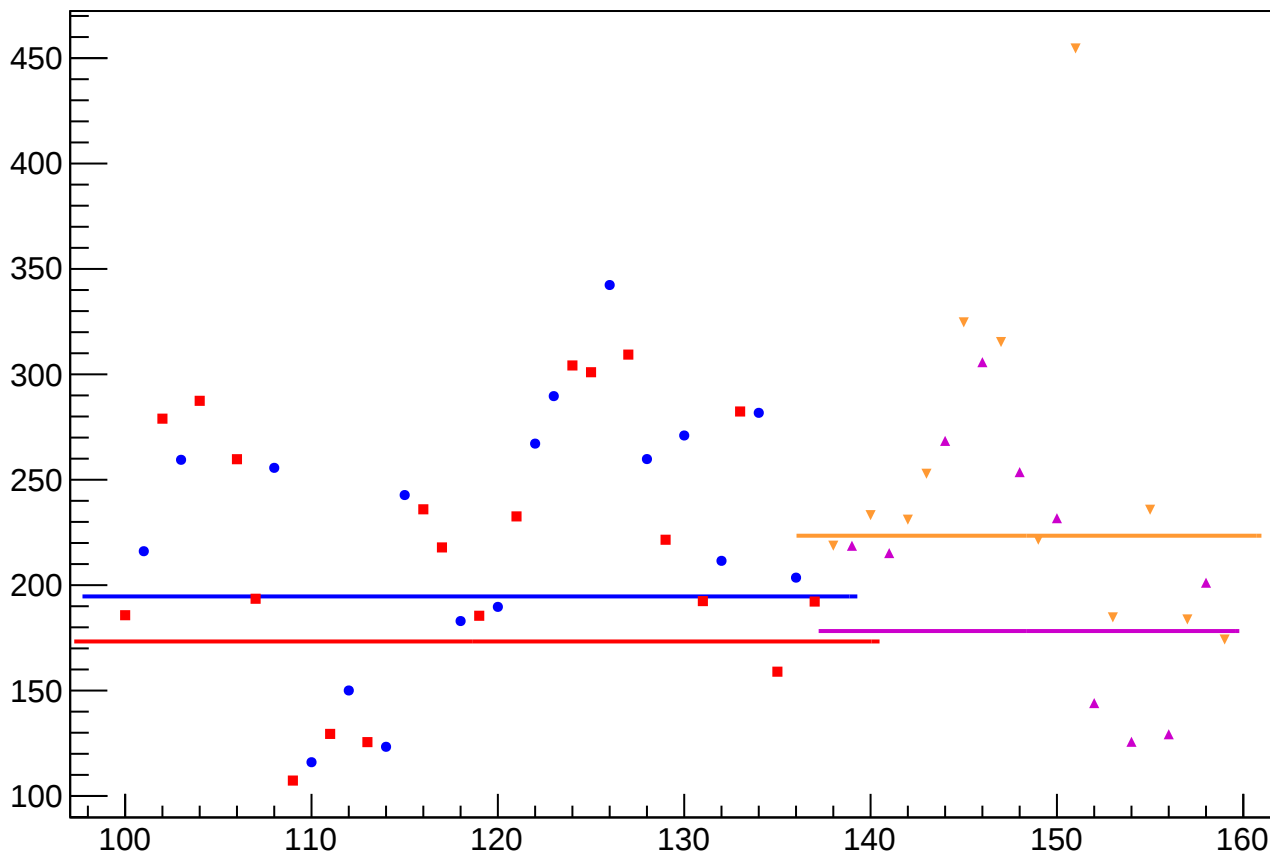
Right Out: -11.414+/-70.204 χ^2/NDF : 5.8/19

Left In: -69.417+/-67.788 χ^2/NDF : 4.3/9

58.862+/-55.669 χ^2/NDF : 9.7/28

-41.430+/-48.765 χ^2/NDF : 10.5/29

asym_bcm_an_us_rms vs Slug



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 223.453+/-0.055 χ^2/NDF : 951386.5/11

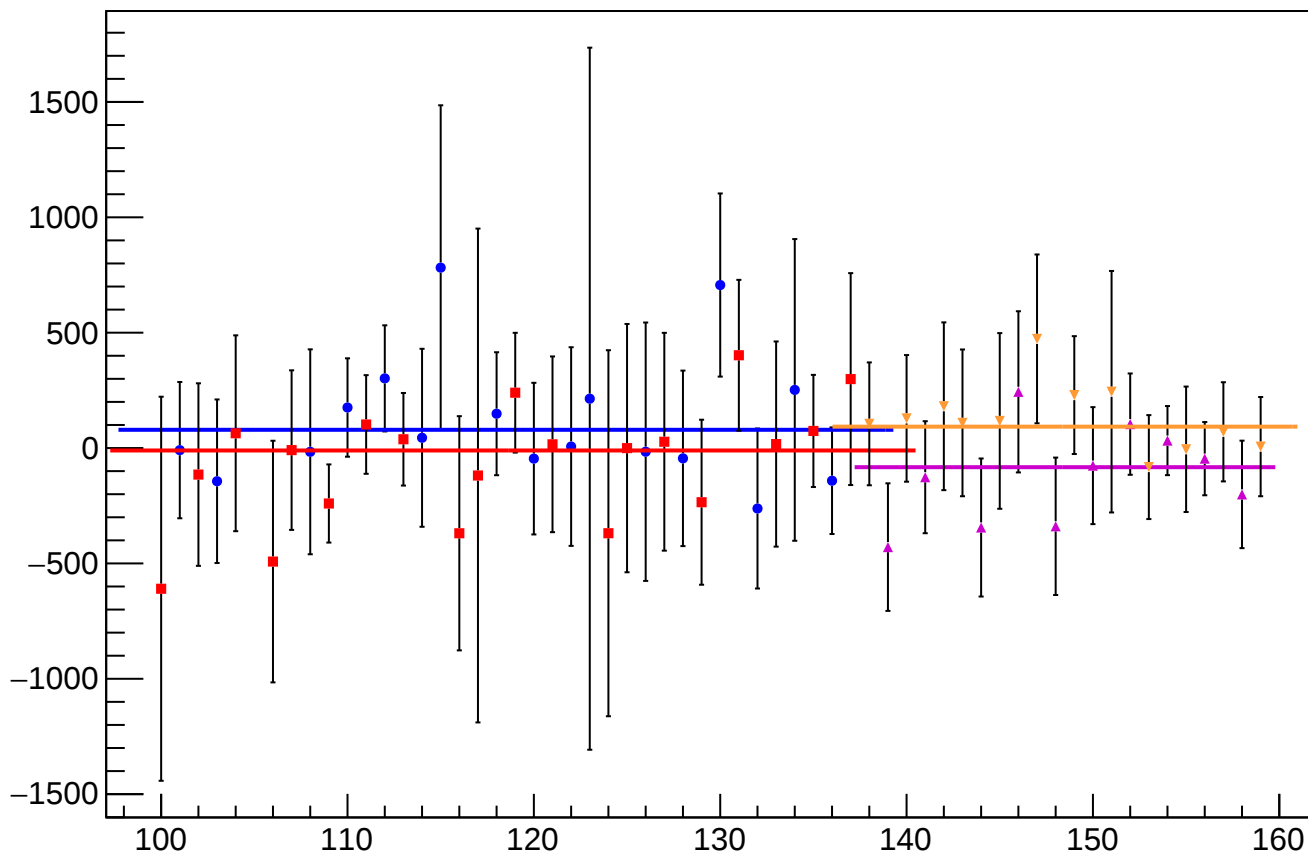
Right Out: 173.289+/-0.050 χ^2/NDF : 1548162.6/19

Left In: 178.233+/-0.048 χ^2/NDF : 1358395.0/9

209.295+/-0.039 χ^2/NDF : 2071981.1/28

175.848+/-0.034 χ^2/NDF : 2911691.0/29

asym_bcm_dg_us_mean vs Slug



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 92.756+/-80.391 χ^2/NDF : 2.4/11

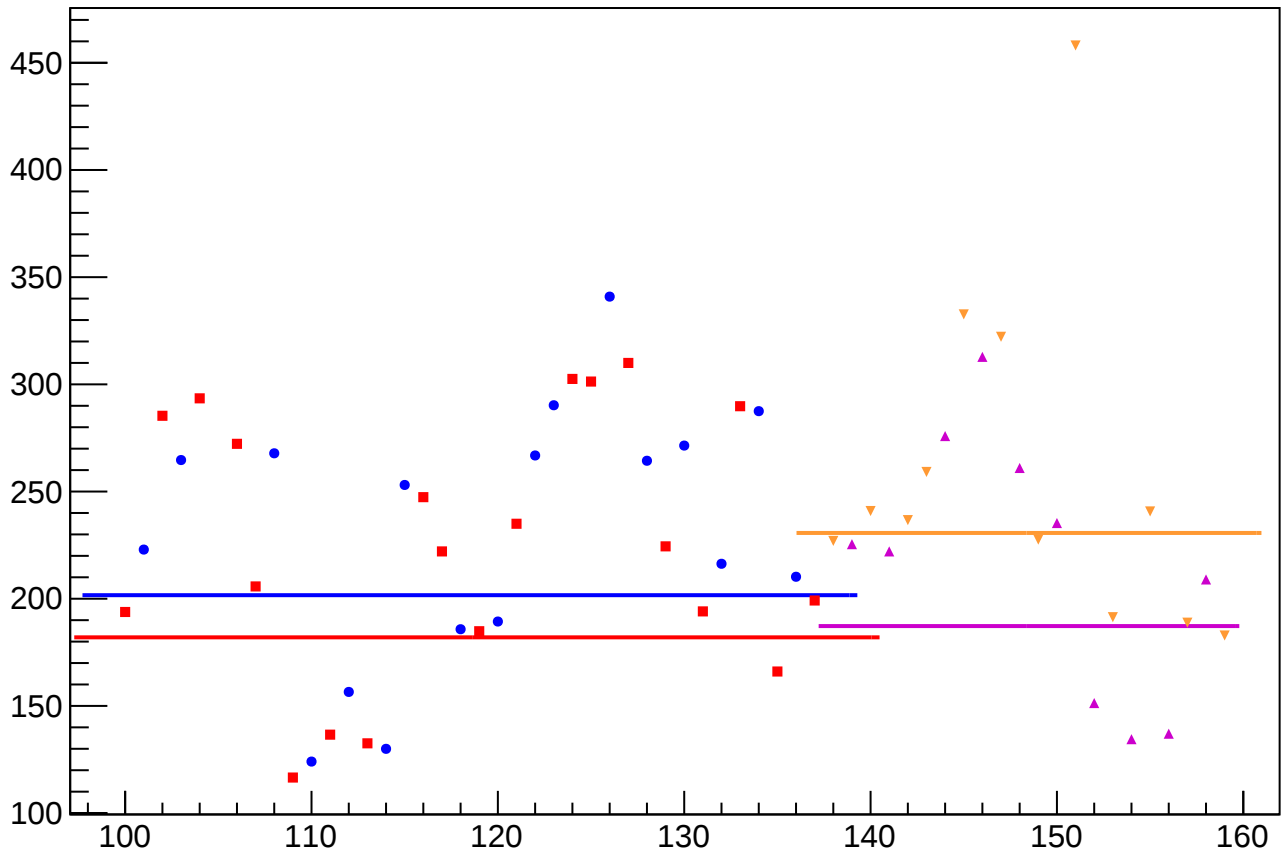
Right Out: -10.491+/-73.139 χ^2/NDF : 7.9/19

Left In: -82.911+/-70.754 χ^2/NDF : 5.6/9

86.067+/-57.362 χ^2/NDF : 10.0/28

-47.901+/-50.853 χ^2/NDF : 14.0/29

asym_bcm_dg_us_rms vs Slug



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 230.685 $\pm$ 0.057 χ^2 /NDF: 904664.6/11

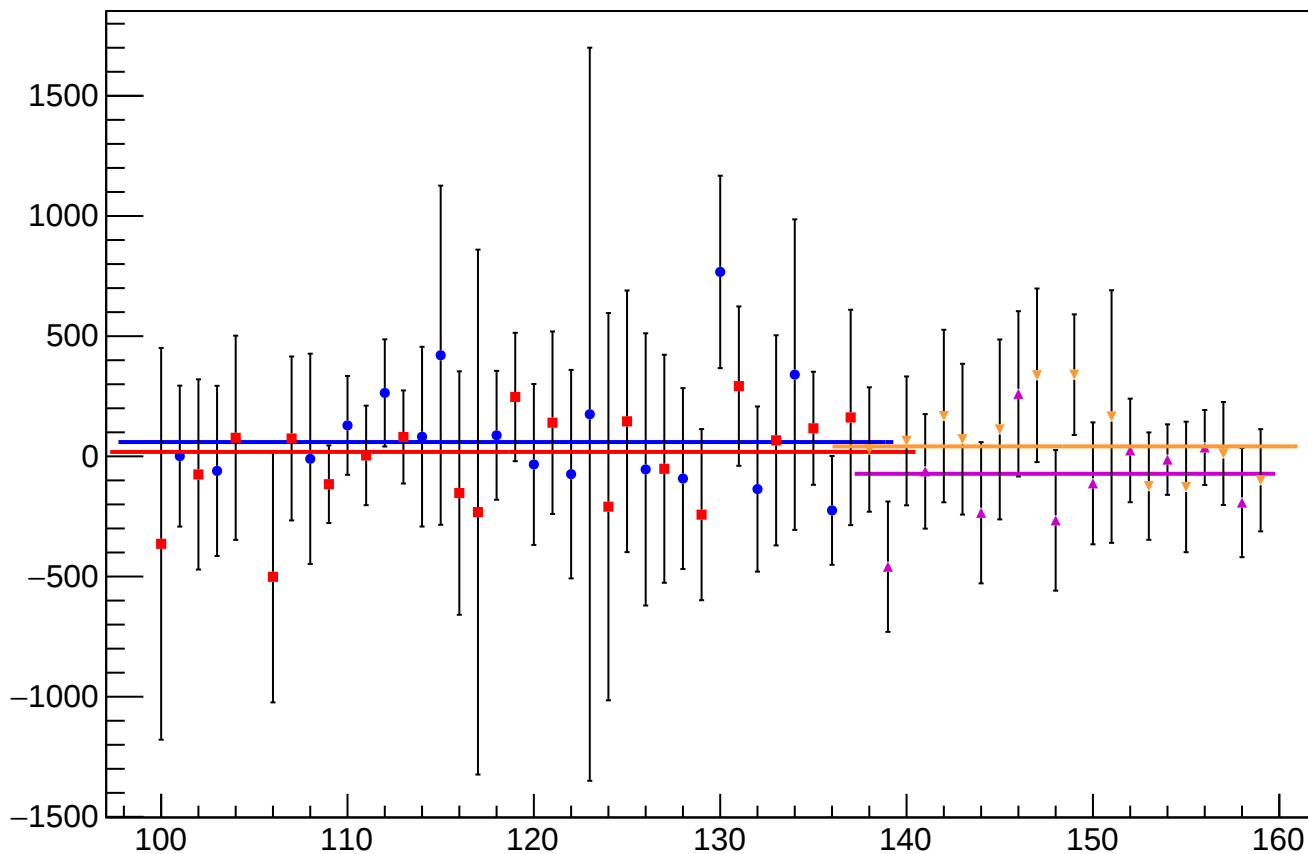
Right Out: 181.986 $\pm$ 0.052 χ^2 /NDF: 1380269.0/19

Left In: 187.244 $\pm$ 0.050 χ^2 /NDF: 1227424.4/9

216.435 $\pm$ 0.041 χ^2 /NDF: 1915864.8/28

184.702 $\pm$ 0.036 χ^2 /NDF: 2613034.0/29

asym_bcm_dg_ds_mean vs Slug



Right In: 59.496+/-80.808 χ^2/NDF : 7.0/16

Left Out: 41.484+/-79.403 χ^2/NDF : 3.7/11

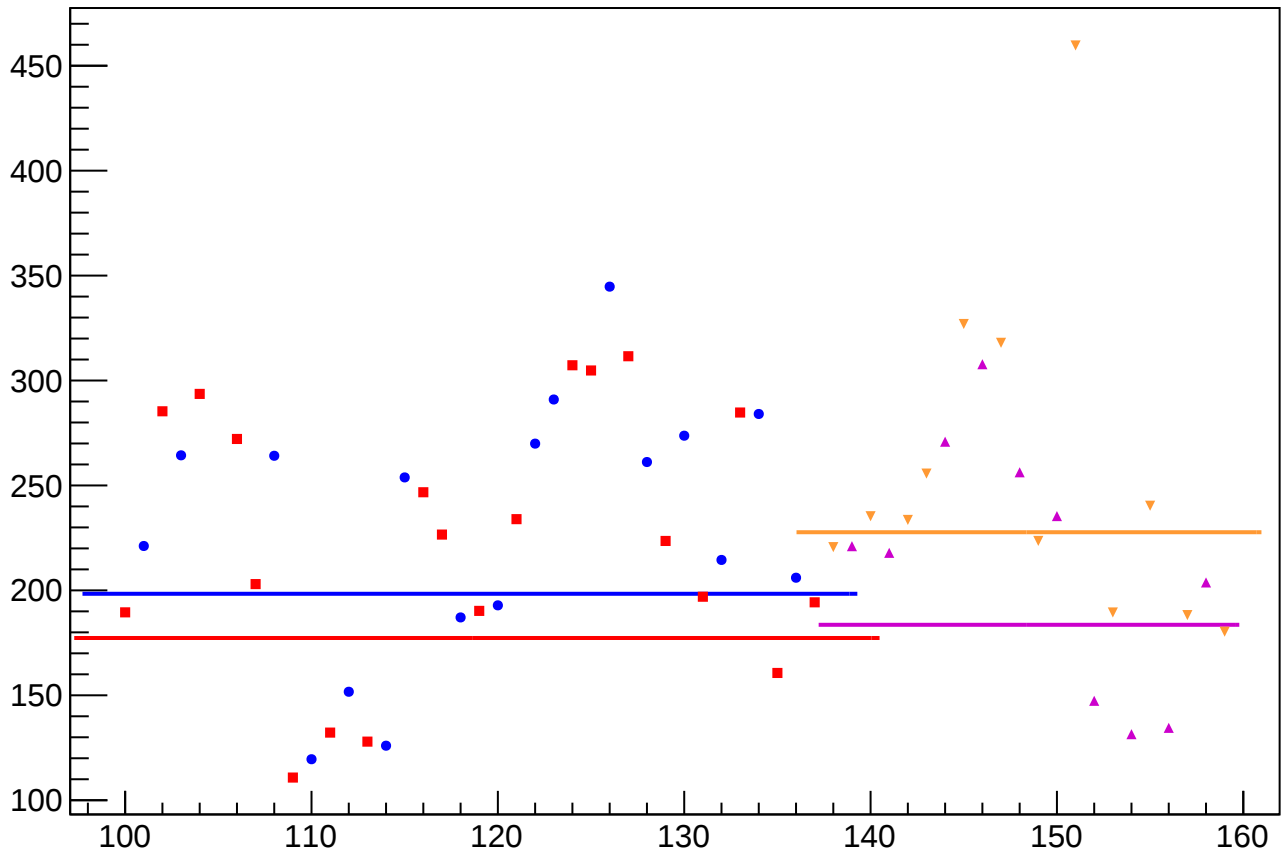
Right Out: 18.457+/-71.711 χ^2/NDF : 4.8/19

Left In: -72.519+/-69.505 χ^2/NDF : 4.9/9

50.332+/-56.637 χ^2/NDF : 10.7/28

-28.452+/-49.909 χ^2/NDF : 10.5/29

asym_bcm_dg_ds_rms vs Slug



Right In: 198.378 ± 0.057 χ^2/NDF : 963672.6/16

Left Out: 227.708 ± 0.056 χ^2/NDF : 905623.3/11

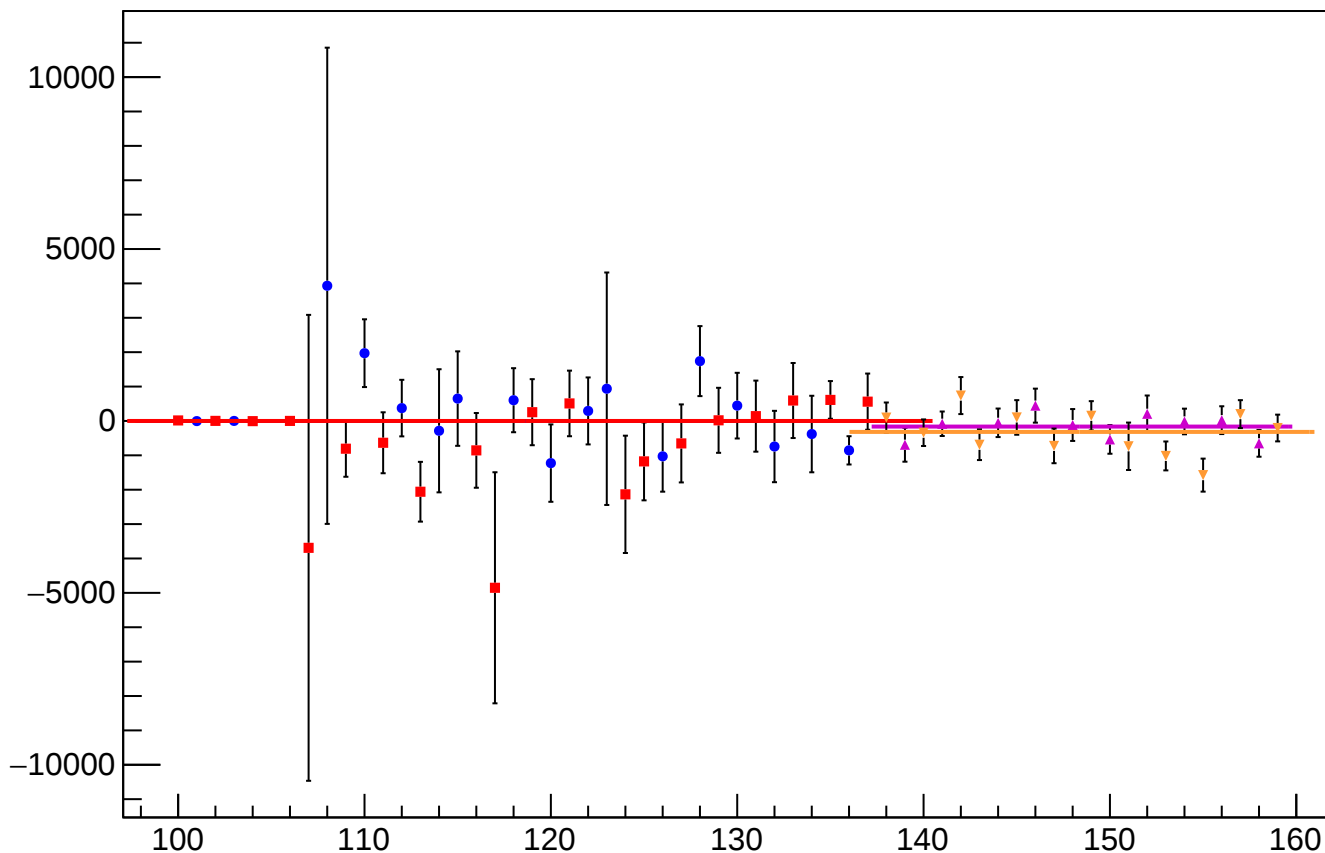
Right Out: 177.309 ± 0.051 χ^2/NDF : 1528855.2/19

Left In: 183.597 ± 0.049 χ^2/NDF : 1246674.9/9

213.301 ± 0.040 χ^2/NDF : 2003345.1/28

180.551 ± 0.035 χ^2/NDF : 2783457.9/29

asym_cav4bQ_mean vs Slug



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -318.849 ± 130.679 χ^2/NDF : 19.7/11

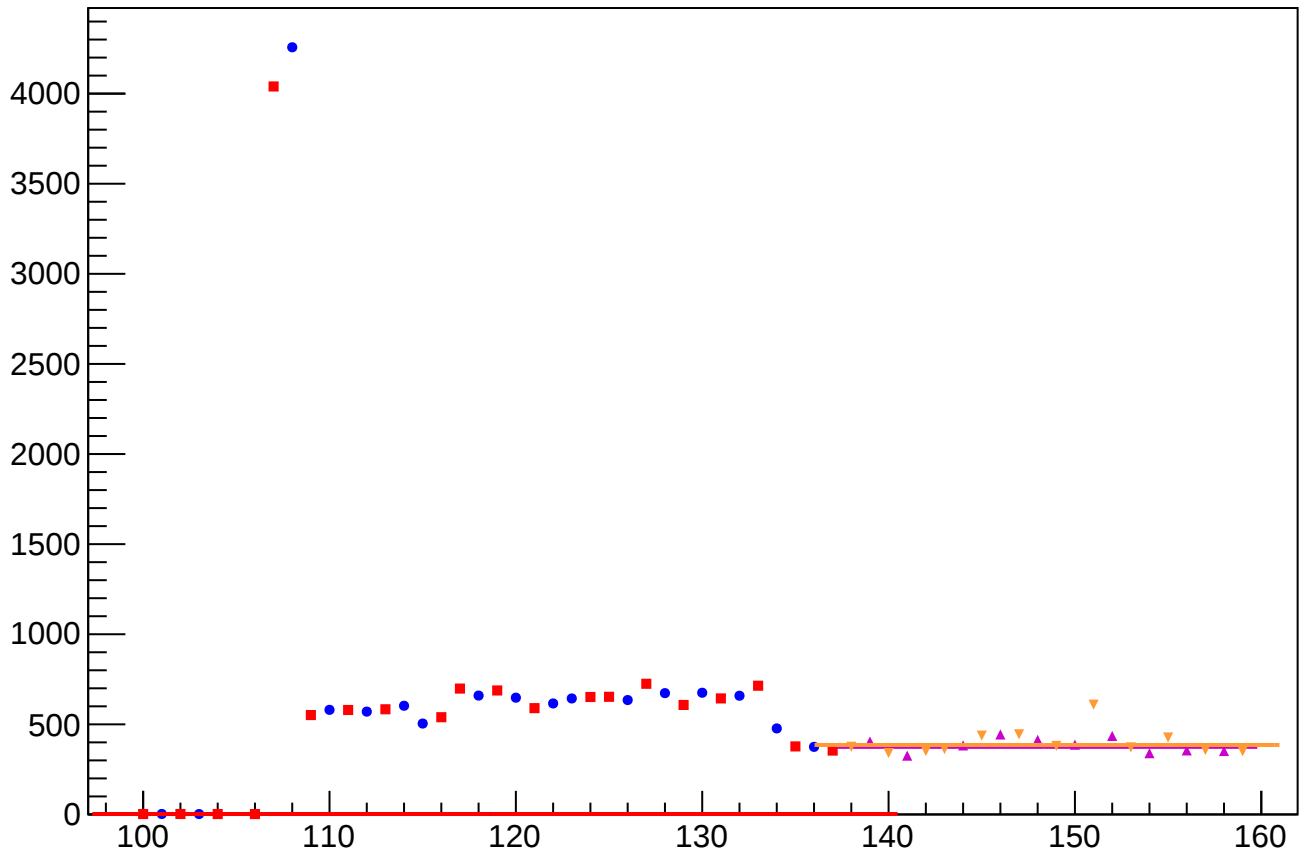
Right Out: -0.728 ± 2.111 χ^2/NDF : 21.4/19

Left In: -163.781 ± 133.970 χ^2/NDF : 6.0/9

-1.624 ± 2.251 χ^2/NDF : 42.6/28

-0.769 ± 2.111 χ^2/NDF : 28.9/29

asym_cav4bQ_rms vs Slug



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 385.516+/-0.092 χ^2/NDF : 343325.8/11

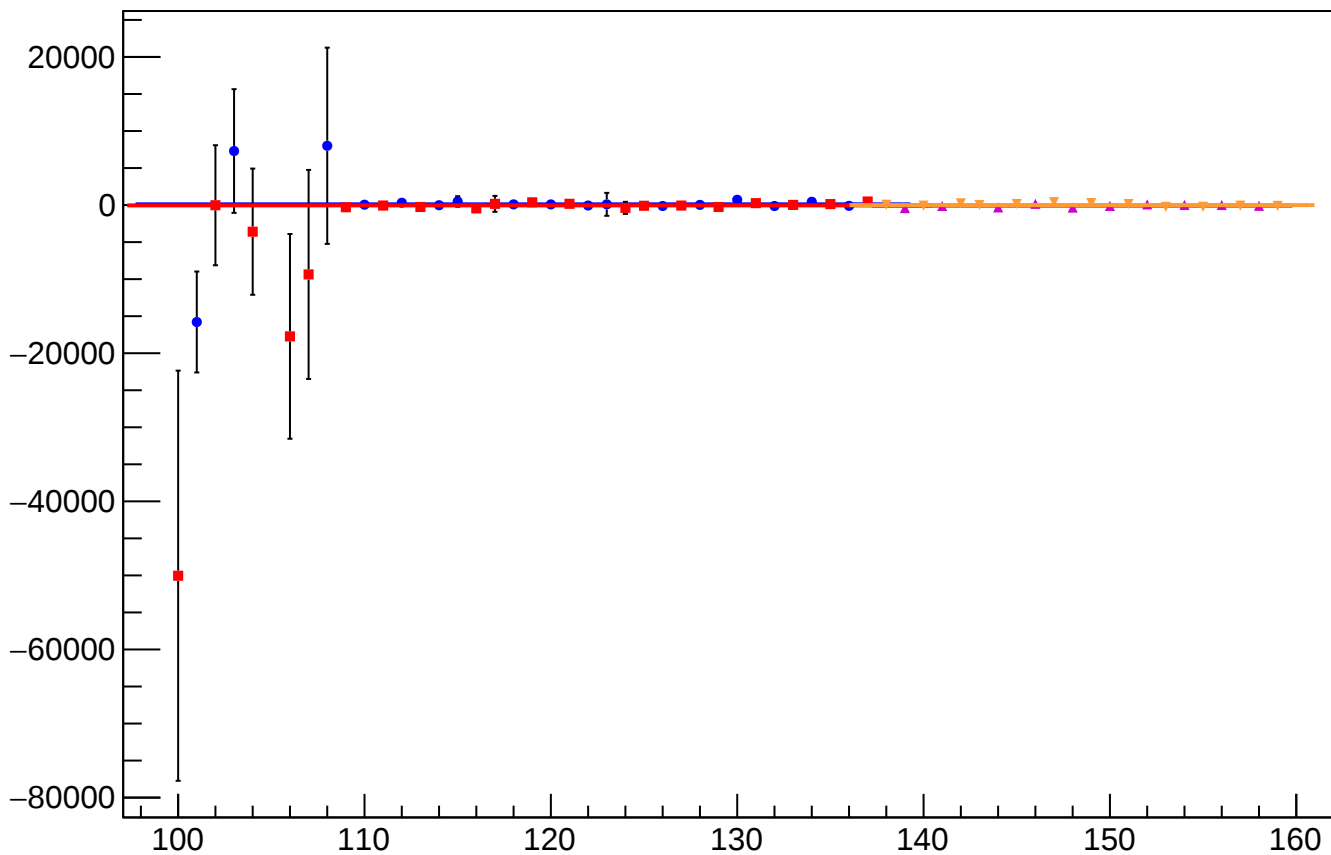
Right Out: 2.437+/-0.001 χ^2/NDF : 11233207.9/19

Left In: 375.200+/-0.095 χ^2/NDF : 155780.5/9

2.570+/-0.002 χ^2/NDF : 28371095.9/28

2.530+/-0.001 χ^2/NDF : 26869105.7/29

asym_cav4cQ_mean vs Slug



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -7.768+/-85.167 χ^2/NDF : 4.7/11

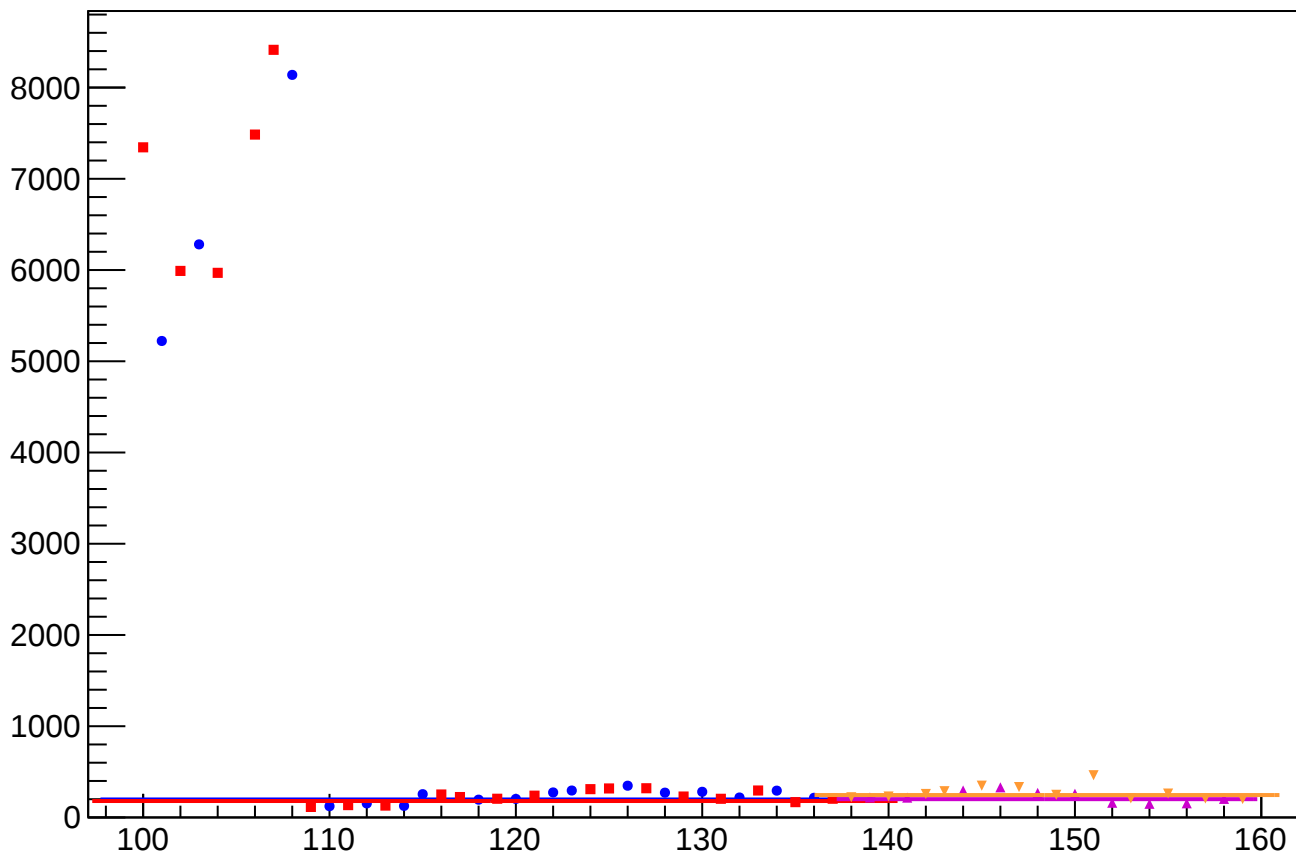
Right Out: -41.024+/-84.237 χ^2/NDF : 13.9/19

Left In: -75.817+/-75.086 χ^2/NDF : 4.4/9

42.000+/-62.137 χ^2/NDF : 17.3/28

-60.412+/-56.051 χ^2/NDF : 18.4/29

asym_cav4cQ_rms vs Slug



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 245.618+/-0.060 χ^2/NDF : 807442.6/11

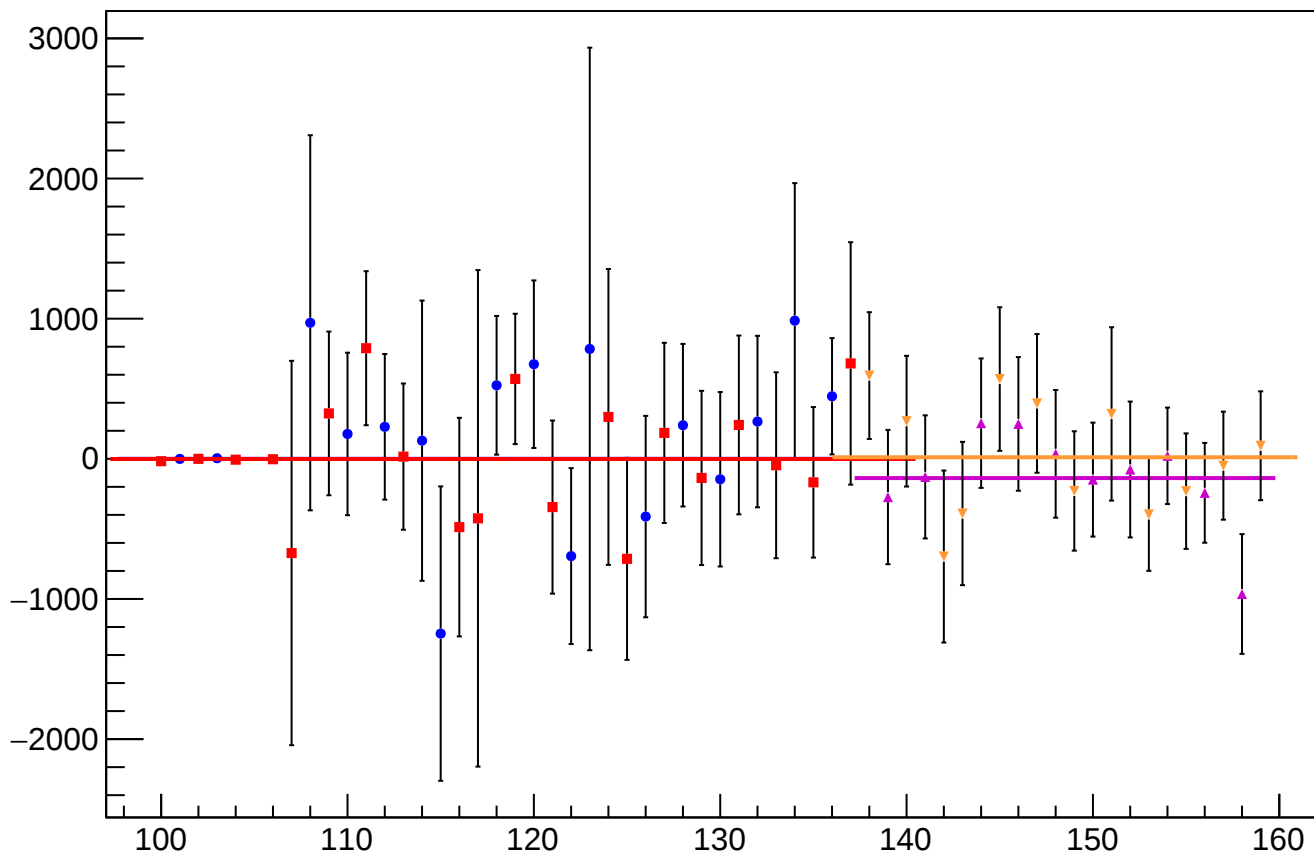
Right Out: 180.217+/-0.060 χ^2/NDF : 4324457.3/19

Left In: 200.528+/-0.053 χ^2/NDF : 1005752.1/9

222.920+/-0.044 χ^2/NDF : 4804801.0/28

191.535+/-0.040 χ^2/NDF : 5395000.3/29

asym_cav4dQ_mean vs Slug



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: 11.049 ± 131.977 χ^2/NDF : 7.7/11

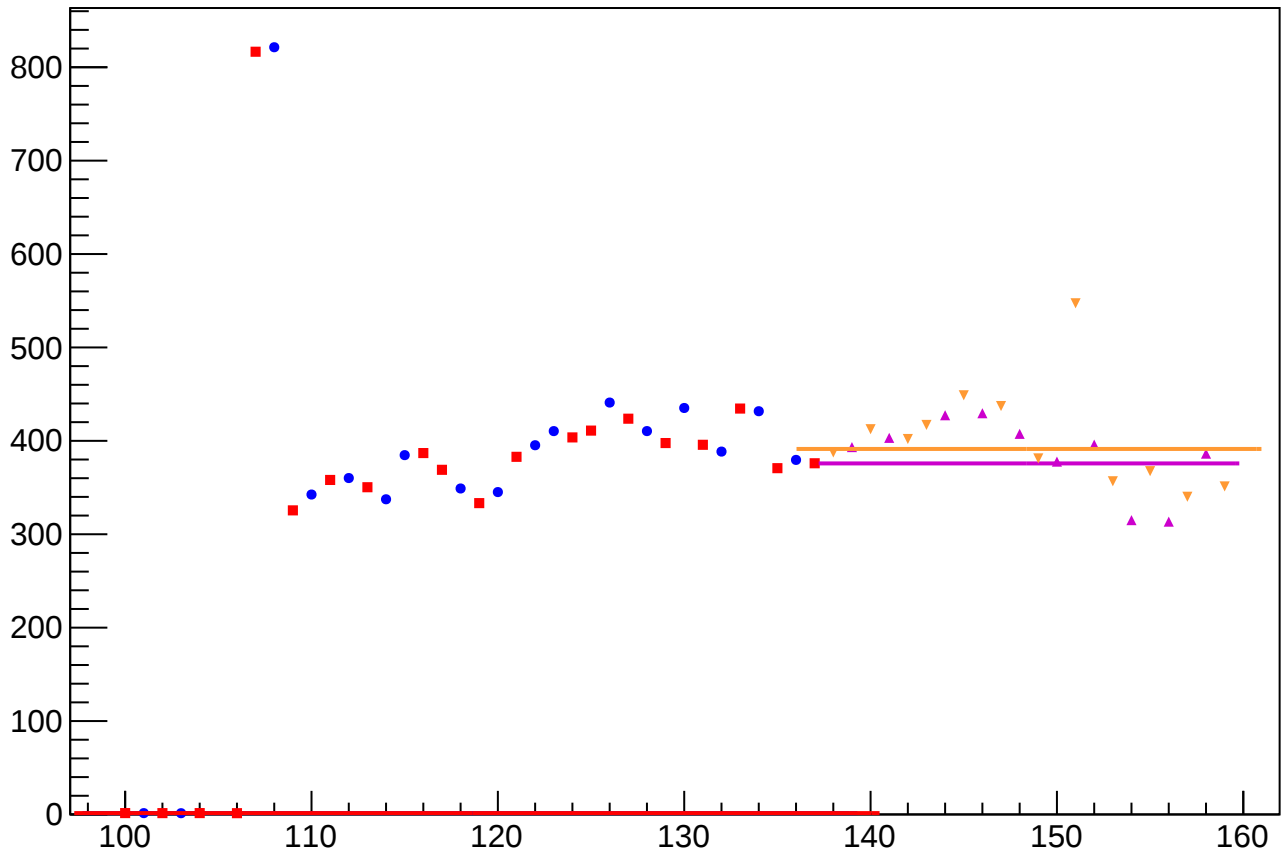
Right Out: -1.324 ± 1.623 χ^2/NDF : 9.7/19

Left In: -137.456 ± 134.160 χ^2/NDF : 5.7/9

-0.136 ± 1.736 χ^2/NDF : 17.5/28

-1.344 ± 1.622 χ^2/NDF : 16.4/29

asym_cav4dQ_rms vs Slug



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 391.325+/-0.093 χ^2/NDF : 258642.8/11

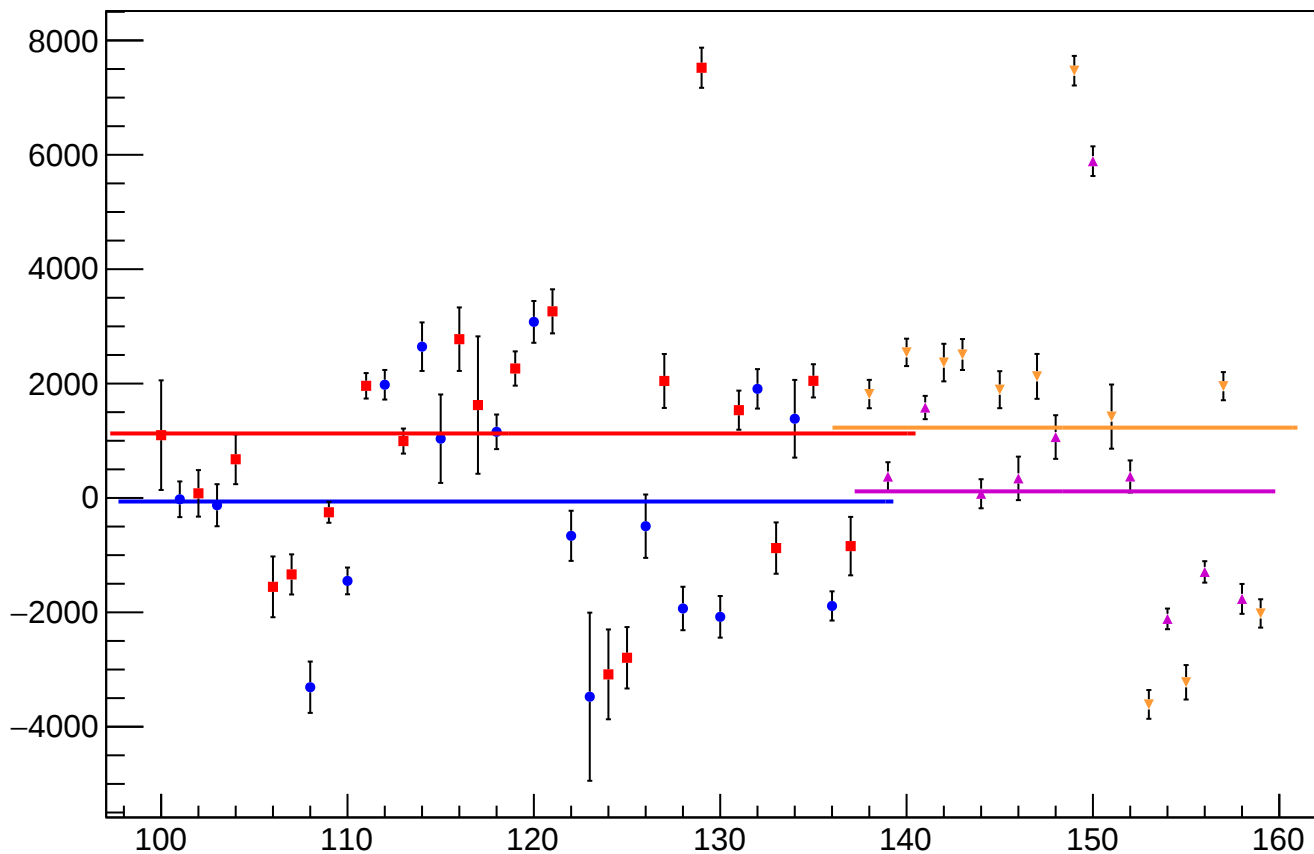
Right Out: 1.451+/-0.001 χ^2/NDF : 10966832.6/19

Left In: 375.834+/-0.095 χ^2/NDF : 198629.2/9

1.520+/-0.001 χ^2/NDF : 28667005.7/28

1.506+/-0.001 χ^2/NDF : 26737749.0/29

asym_bcm0l02_mean vs Slug



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 1229.693 ± 81.548 $\chi^2/\text{NDF}: 1430.7/11$

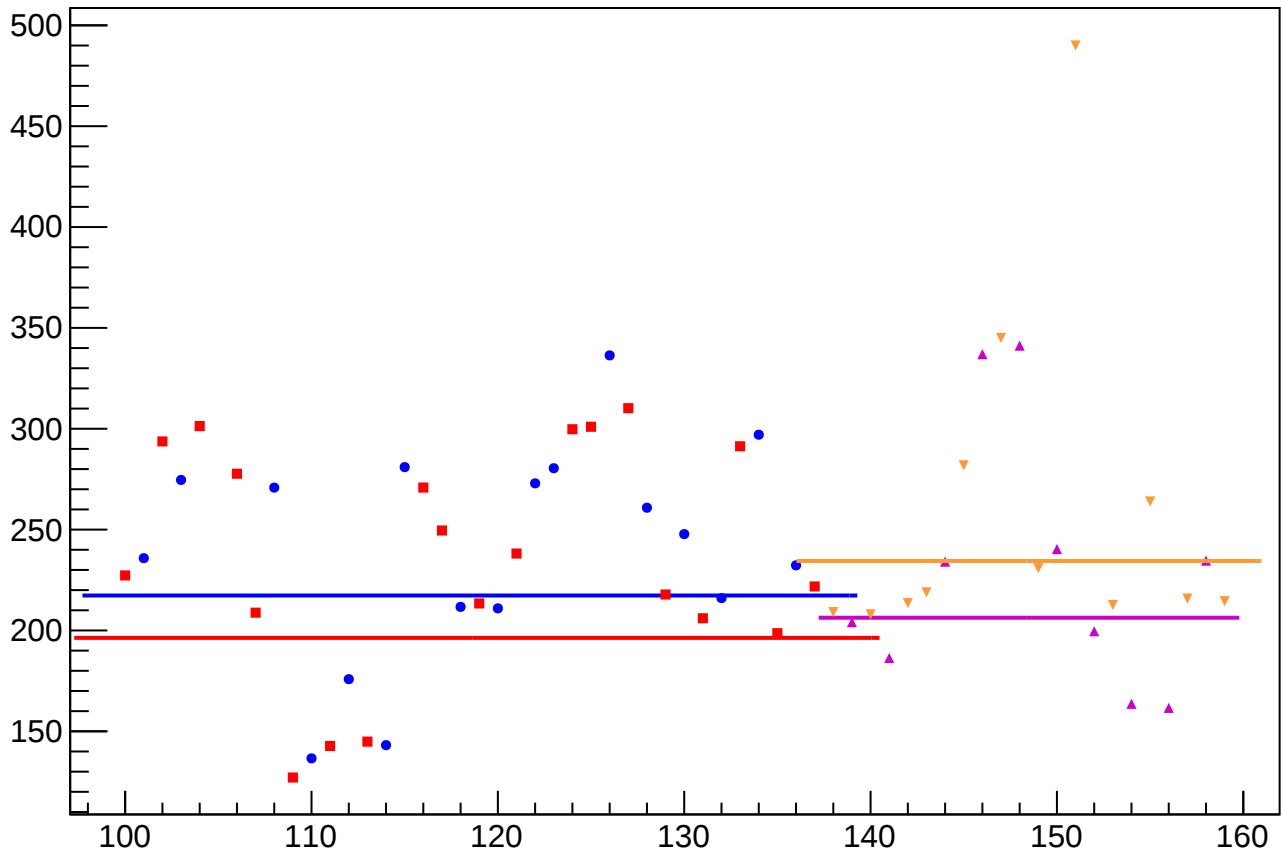
Right Out: 1127.552 ± 78.203 $\chi^2/\text{NDF}: 671.4/19$

Left In: 115.346 ± 76.559 $\chi^2/\text{NDF}: 816.0/9$

628.634 ± 59.632 $\chi^2/\text{NDF}: 1981.4/28$

610.696 ± 54.707 $\chi^2/\text{NDF}: 1572.9/29$

asym_bcm0l02_rms vs Slug



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 234.445 $\pm$ 0.058 χ^2 /NDF: 735628.7/11

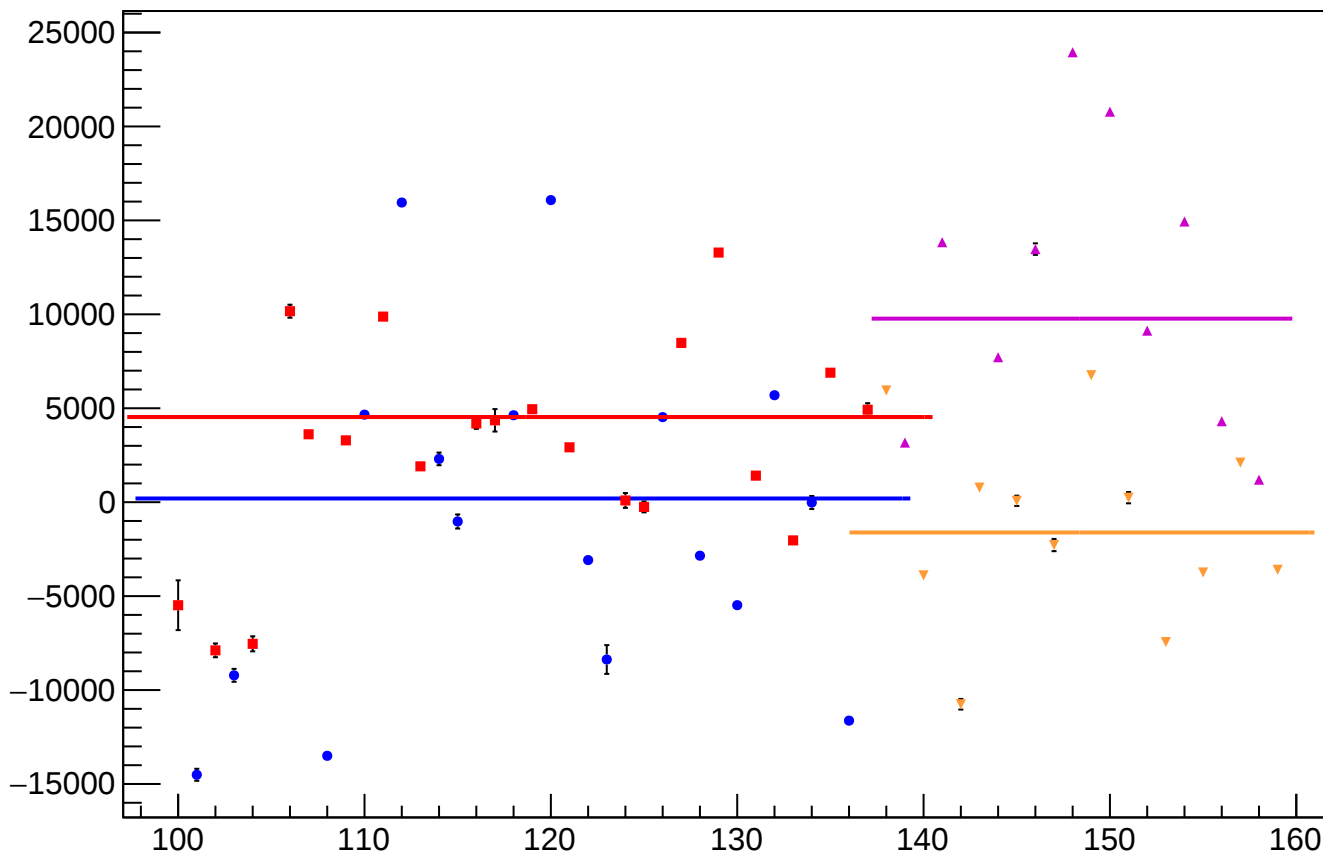
Right Out: 196.332 $\pm$ 0.055 χ^2 /NDF: 1194678.0/19

Left In: 206.314 $\pm$ 0.054 χ^2 /NDF: 813986.7/9

226.482 $\pm$ 0.042 χ^2 /NDF: 1429339.9/28

201.429 $\pm$ 0.039 χ^2 /NDF: 2025303.6/29

asym_bpm0i02WS_mean vs Slug



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -1612.428+/-57.835 χ^2/NDF :6661.1/11

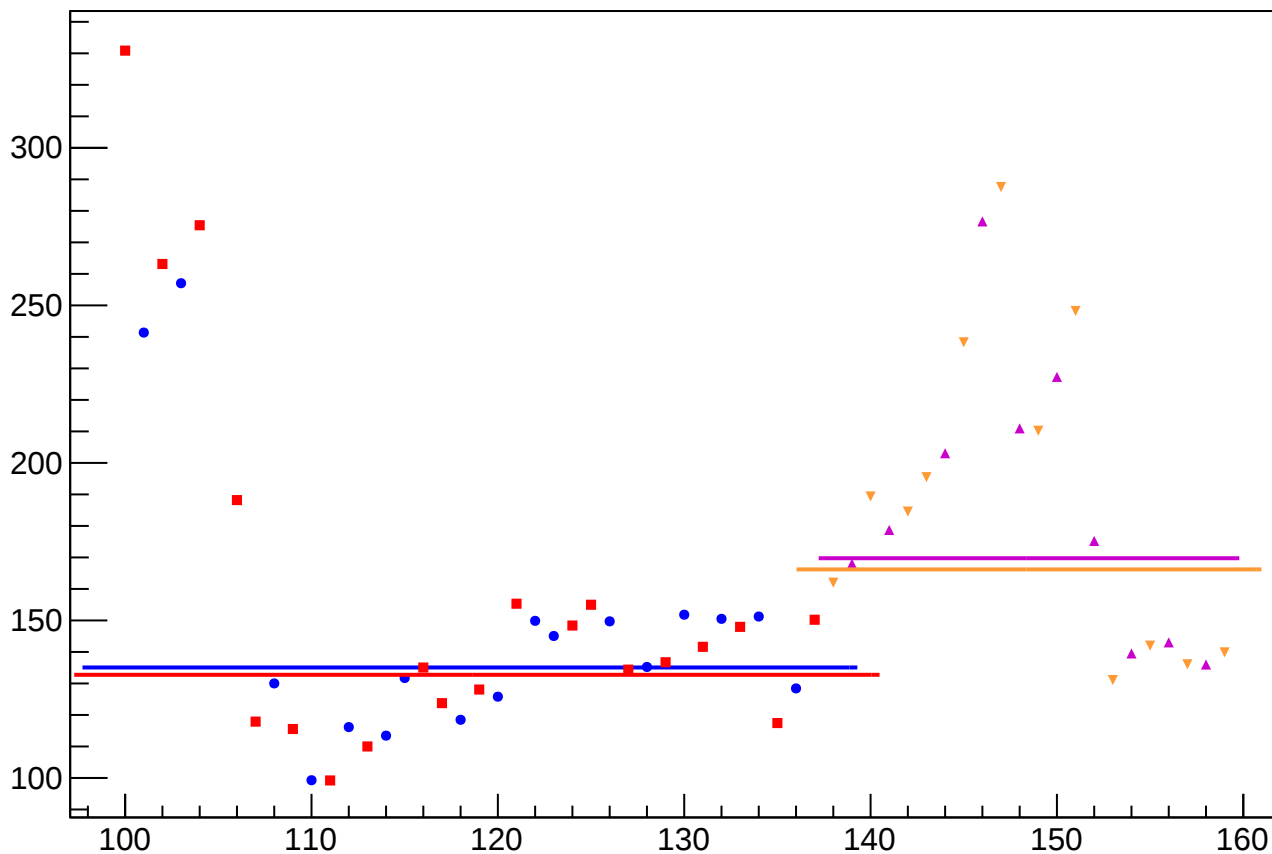
Right Out: 4532.856+/-52.261 χ^2/NDF : 7477.3/19

Left In: 9770.111+/-62.433 χ^2/NDF :12539.8/9

-658.967+/-39.779 χ^2/NDF : 37835.2/28

6690.616+/-40.074 χ^2/NDF : 24154.8/29

asym_bpm0i02WS_rms vs Slug



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 166.201+/-0.041 χ^2/NDF : 988562.4/11

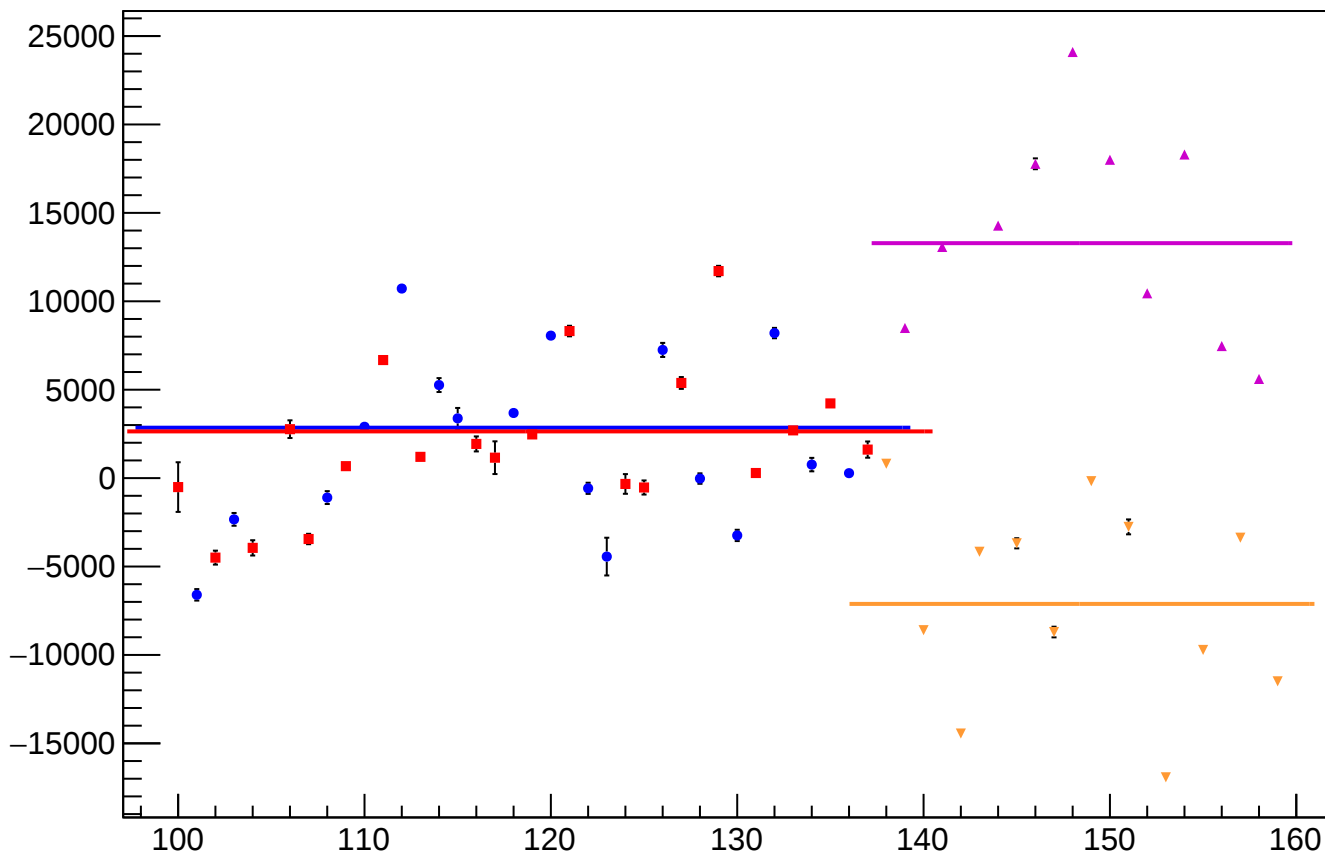
Right Out: 132.747+/-0.037 χ^2/NDF : 831647.2/19

Left In: 169.747+/-0.044 χ^2/NDF : 691197.7/9

149.798+/-0.028 χ^2/NDF : 1952583.7/28

147.991+/-0.028 χ^2/NDF : 1935870.6/29

asym_bpm0i02aWS_mean vs Slug



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7114.118+/-67.305 χ^2/NDF : 7130.1/11

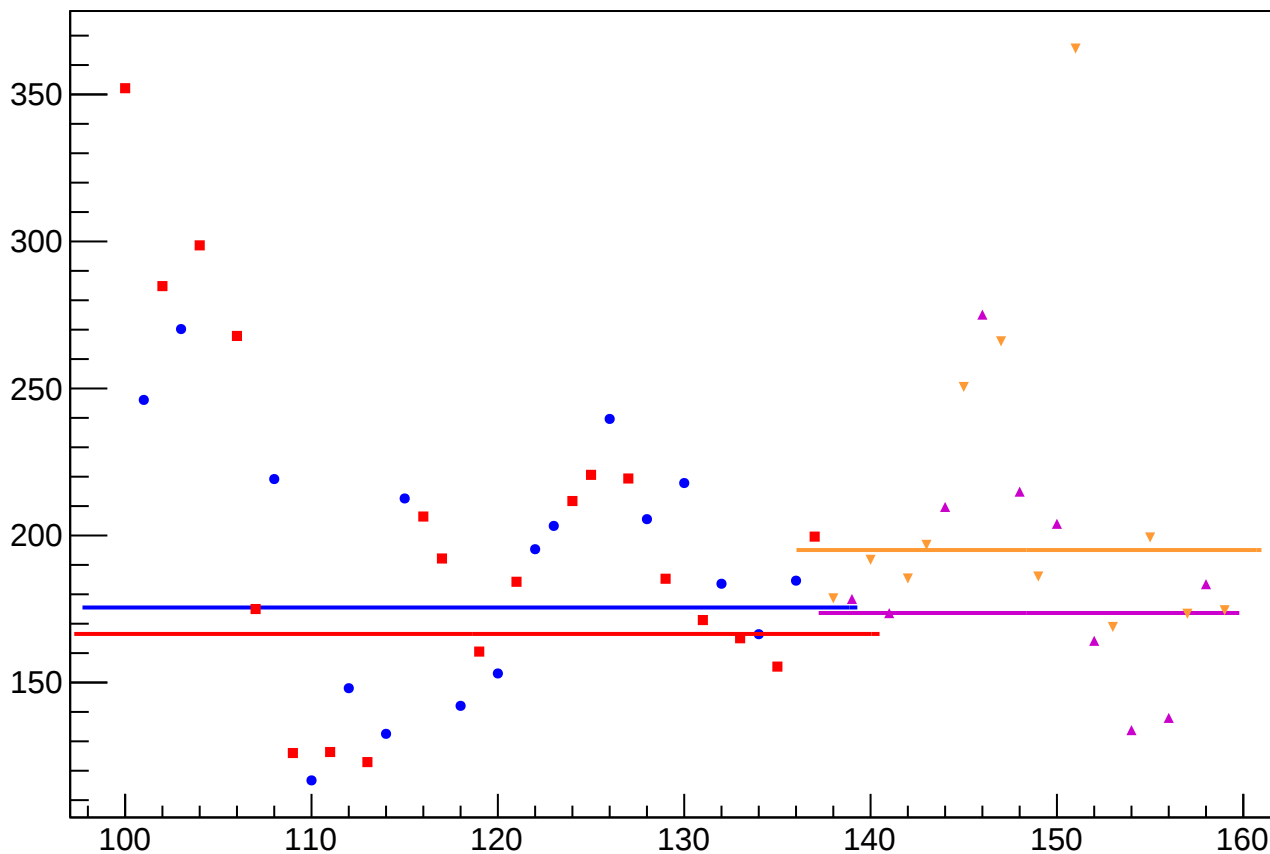
Right Out: 2641.642+/-65.566 χ^2/NDF : 3178.3/19

Left In: 13287.354+/-63.899 χ^2/NDF : 7196.0/9

-2380.128+/-48.765 χ^2/NDF : 21722.8/28

8101.525+/-45.761 χ^2/NDF : 23895.2/29

asym_bpm0i02aWS_rms vs Slug



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 195.058+/-0.048 χ^2/NDF : 611146.0/11

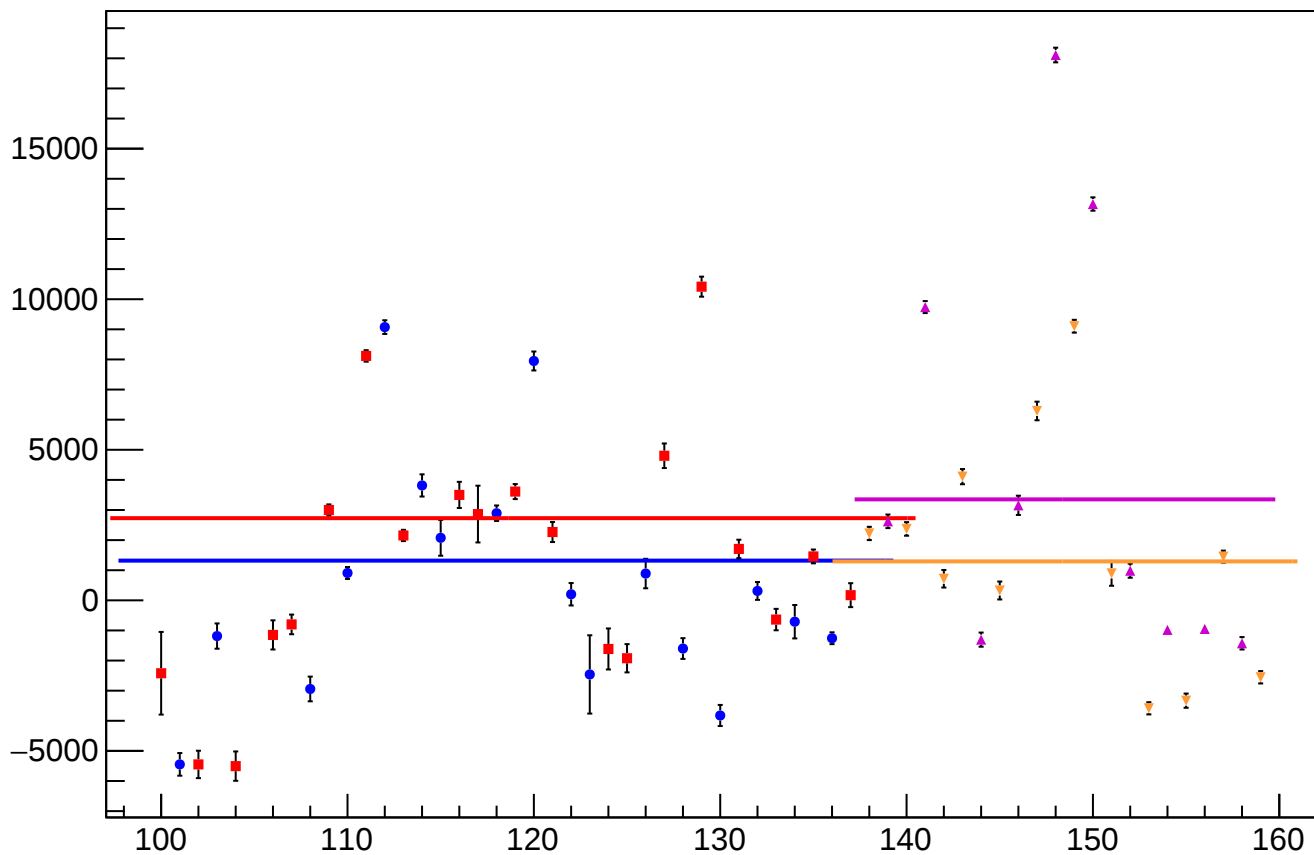
Right Out: 166.522+/-0.046 χ^2/NDF : 931079.9/19

Left In: 173.648+/-0.045 χ^2/NDF : 619331.0/9

185.774+/-0.034 χ^2/NDF : 1380896.5/28

170.177+/-0.032 χ^2/NDF : 1562525.3/29

asym_bpm0i05WS_mean vs Slug



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1293.586+/-69.265 χ^2/NDF : 3098.9/11

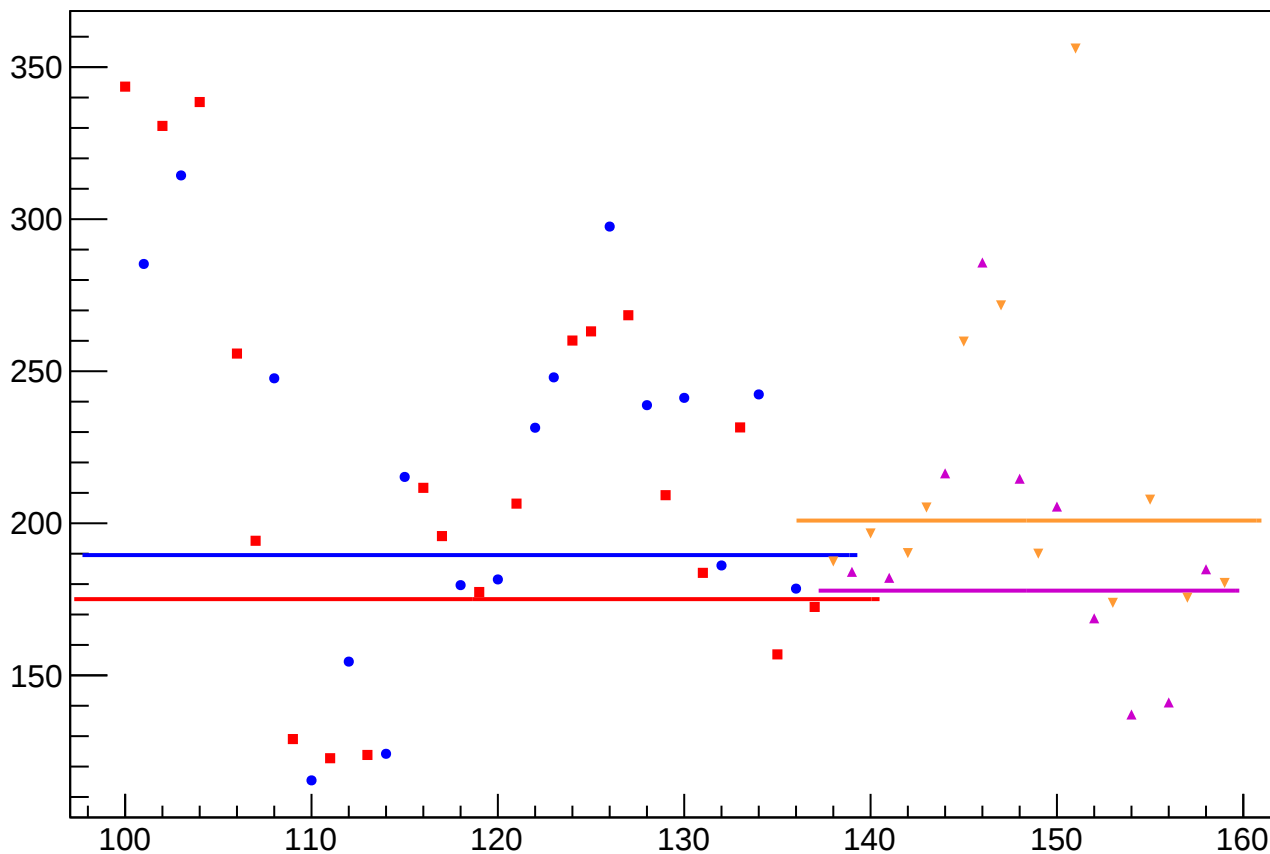
Right Out: 2728.550+/-69.837 χ^2/NDF : 2495.9/19

Left In: 3352.916+/-65.484 χ^2/NDF : 9205.6/9

1304.933+/-51.539 χ^2/NDF : 5766.0/28

3060.797+/-47.769 χ^2/NDF : 11744.1/29

asym_bpm0i05WS_rms vs Slug



Right In: 189.544 ± 0.055 $\chi^2/\text{NDF}: 980744.6/16$

Left Out: 200.895 ± 0.049 $\chi^2/\text{NDF}: 572892.4/11$

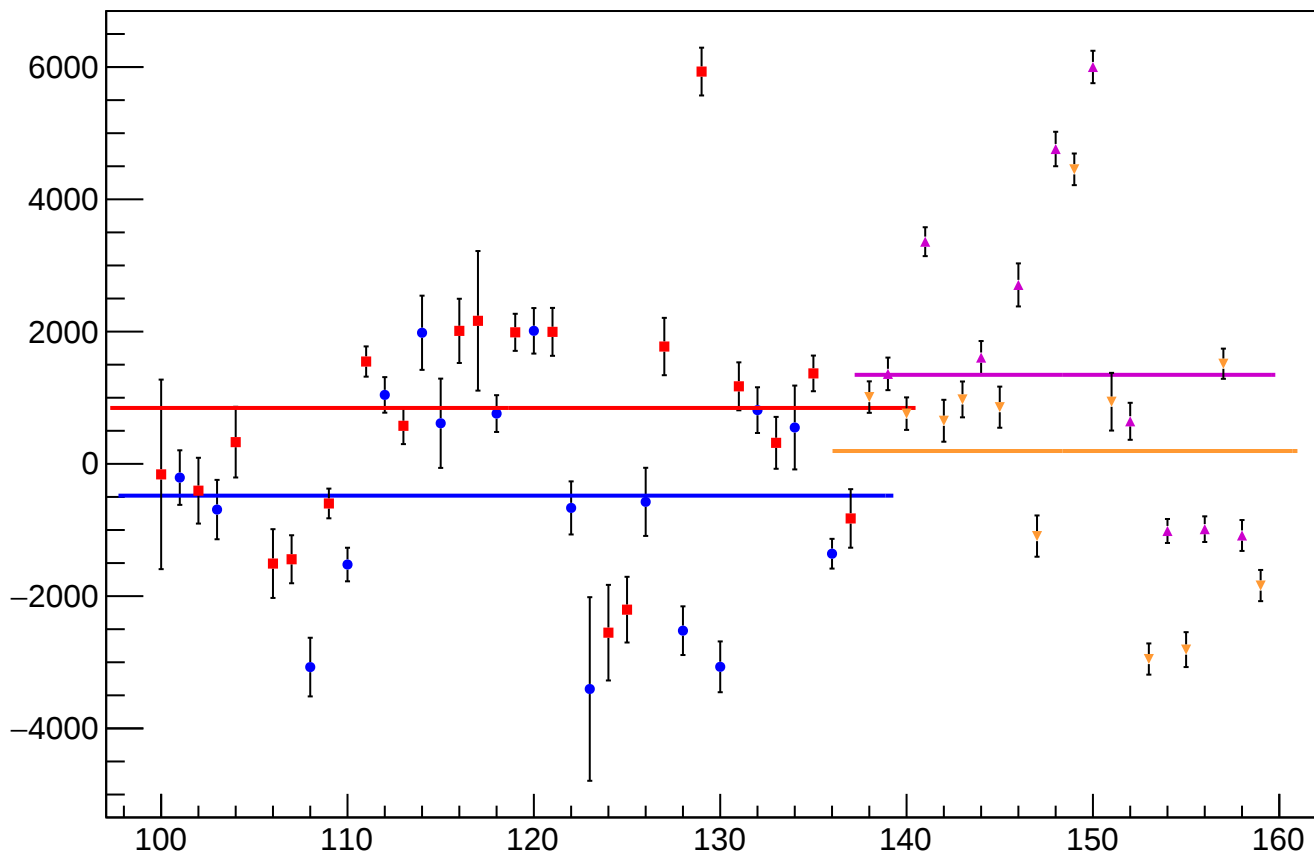
Right Out: 175.058 ± 0.049 $\chi^2/\text{NDF}: 1298079.7/19$

Left In: 177.852 ± 0.046 $\chi^2/\text{NDF}: 613036.1/9$

195.829 ± 0.036 $\chi^2/\text{NDF}: 1577607.1/28$

176.545 ± 0.034 $\chi^2/\text{NDF}: 1912819.1/29$

asym_bpm0i07WS_mean vs Slug



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 194.529 ± 76.567 χ^2/NDF : 783.6/11

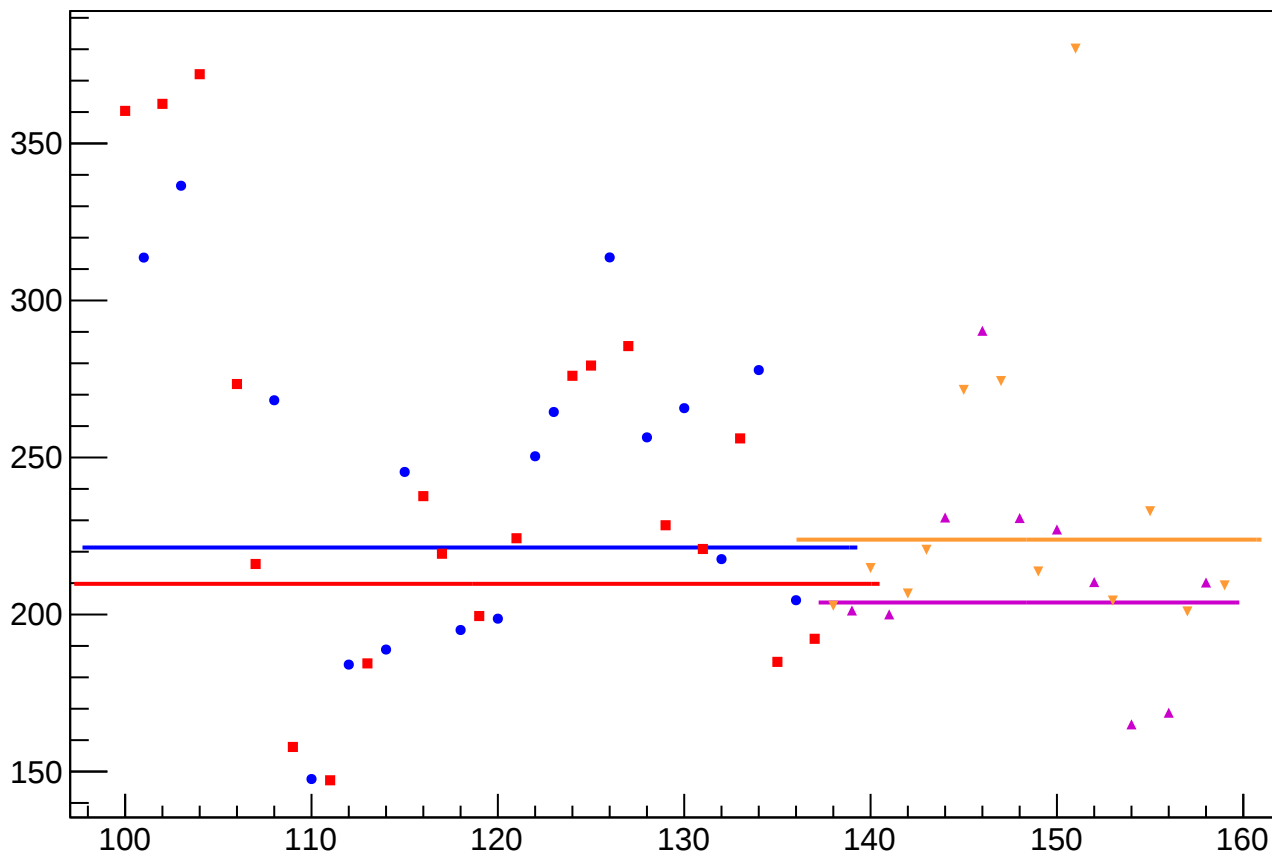
Right Out: 845.444 ± 81.995 χ^2/NDF : 436.9/19

Left In: 1346.330 ± 74.059 χ^2/NDF : 1065.0/9

-93.950 ± 57.943 χ^2/NDF : 1107.5/28

1121.291 ± 54.960 χ^2/NDF : 1522.4/29

asym_bpm0i07WS_rms vs Slug



Right In: 221.342 ± 0.063 χ^2/NDF : 645688.1/16

Left Out: 223.847 ± 0.054 χ^2/NDF : 427886.1/11

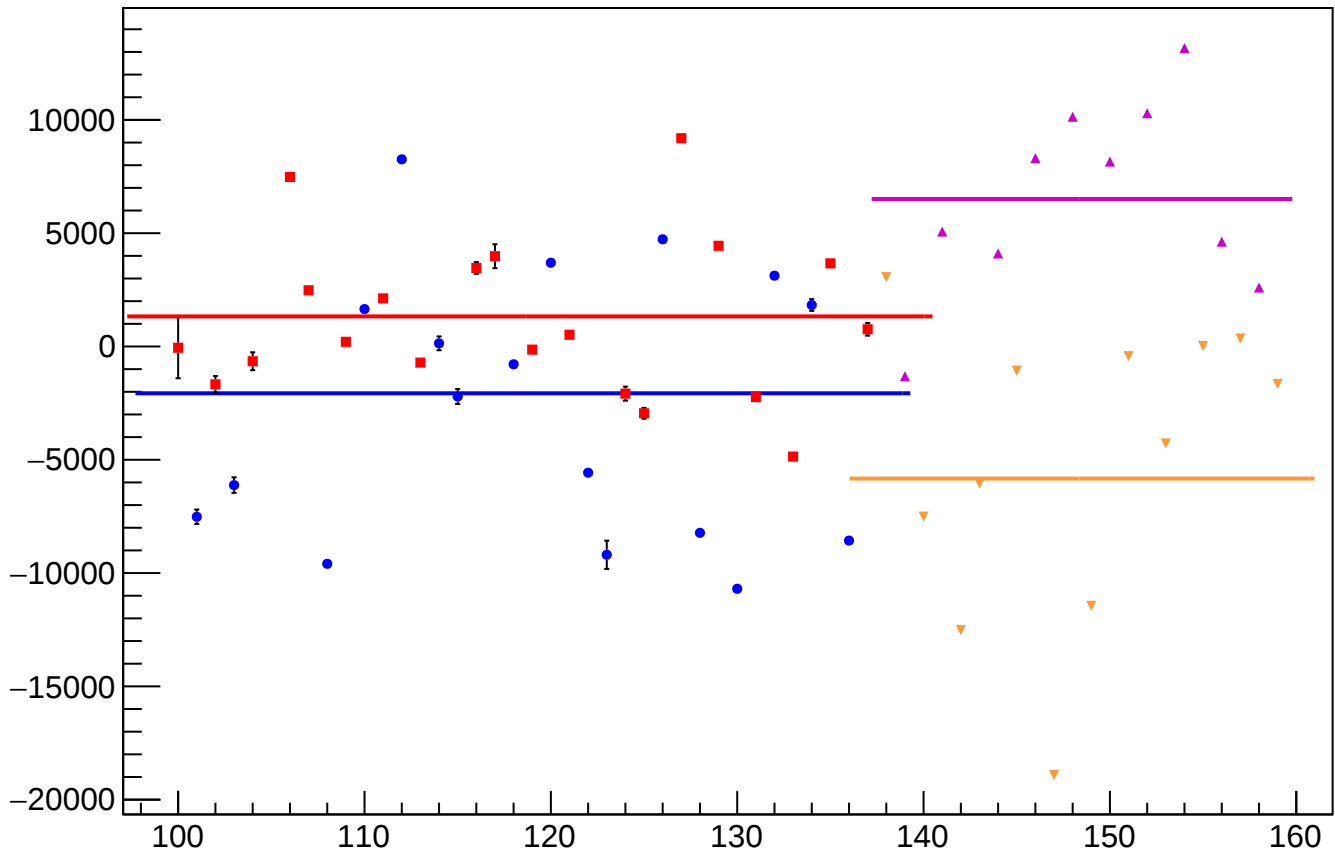
Right Out: 209.775 ± 0.058 χ^2/NDF : 884083.7/19

Left In: 203.829 ± 0.052 χ^2/NDF : 364490.9/9

222.777 ± 0.041 χ^2/NDF : 1074489.0/28

206.500 ± 0.039 χ^2/NDF : 1254366.6/29

asym_bpm1i02WS_mean vs Slug



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5829.206 ± 40.002 $\chi^2/\text{NDF}: 26936.4/11$

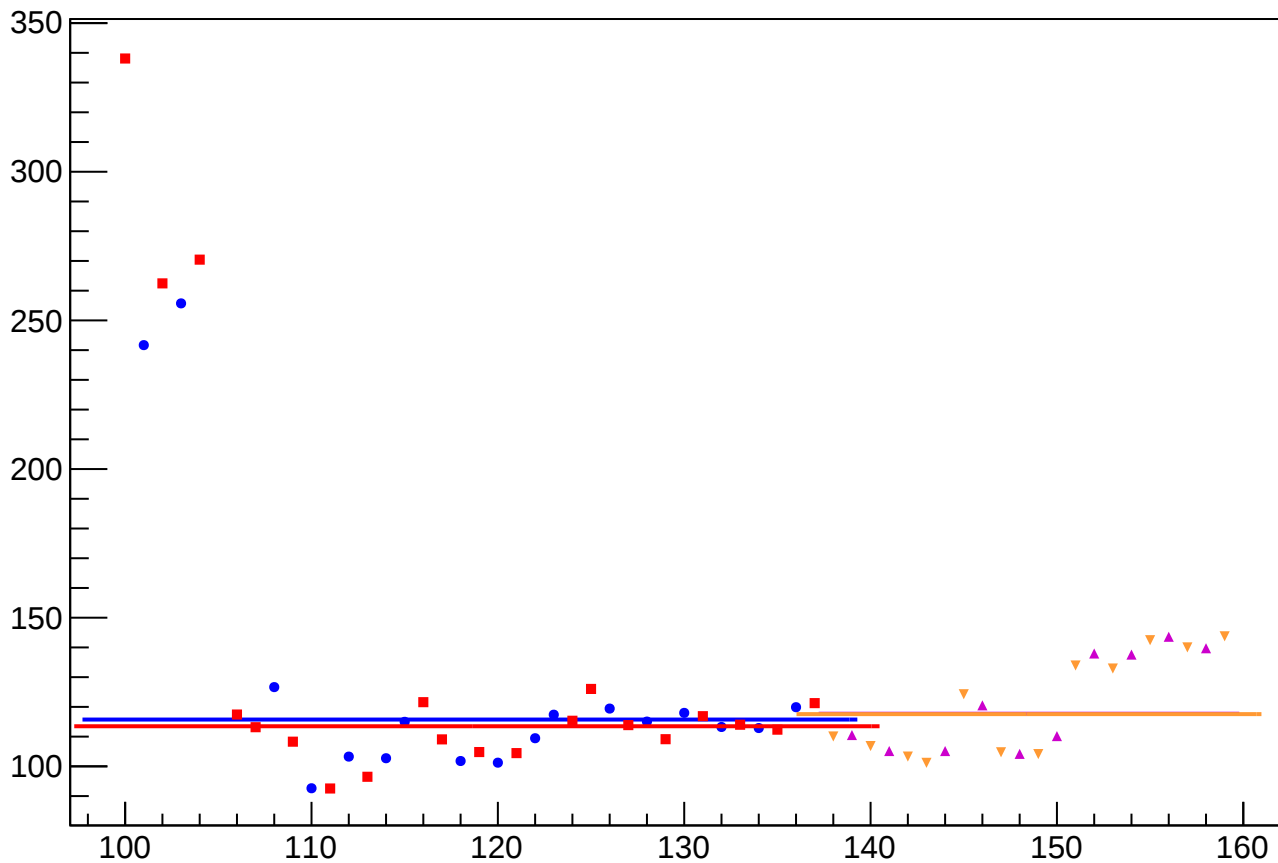
Right Out: 1327.819 ± 44.838 $\chi^2/\text{NDF}: 5919.9/19$

Left In: 6509.028 ± 41.987 $\chi^2/\text{NDF}: 8507.5/9$

-4260.514 ± 30.550 $\chi^2/\text{NDF}: 47159.7/28$

4088.368 ± 30.648 $\chi^2/\text{NDF}: 21541.6/29$

asym_bpm1i02WS_rms vs Slug



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 117.566+/-0.028 χ^2/NDF : 312345.8/11

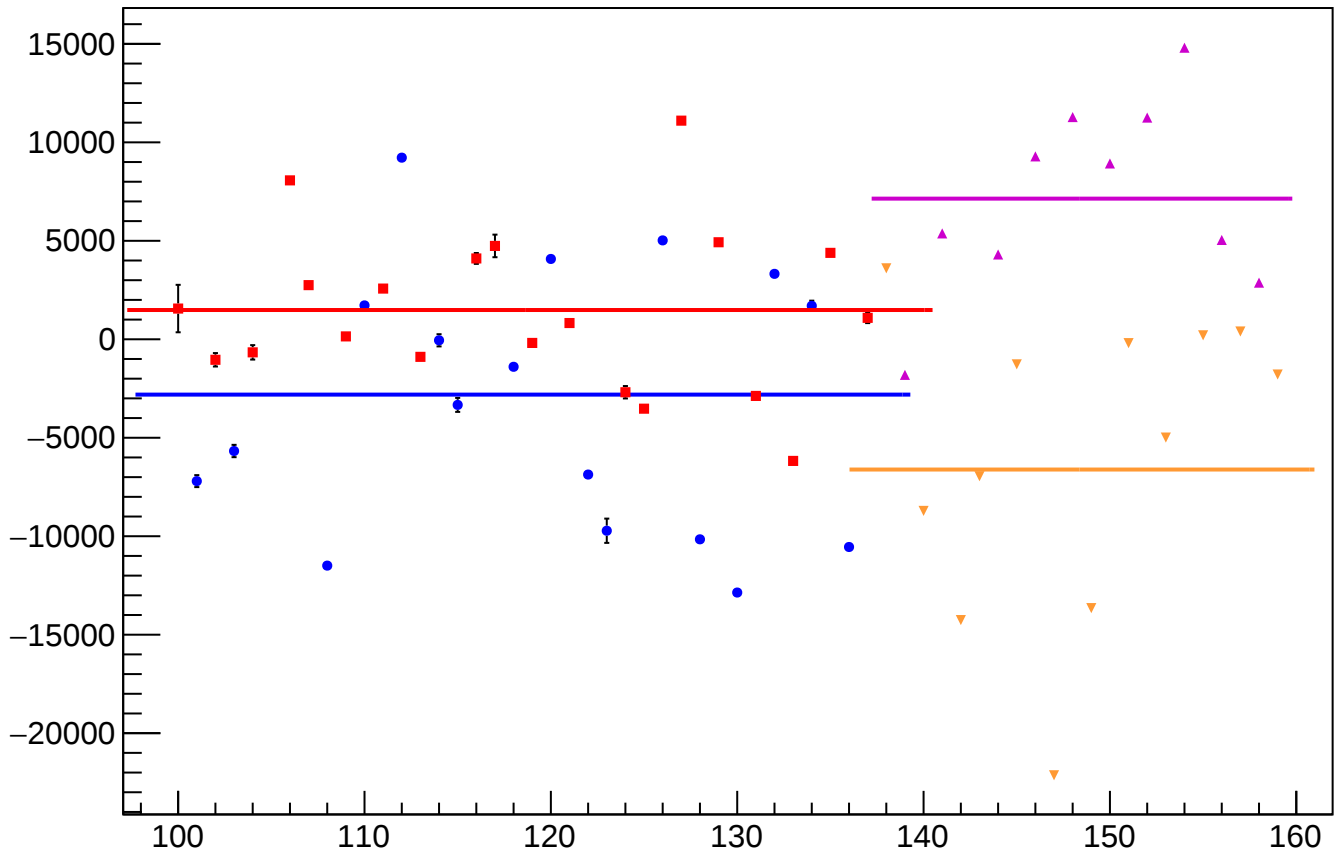
Right Out: 113.487+/-0.032 χ^2/NDF : 796781.7/19

Left In: 117.699+/-0.030 χ^2/NDF : 248602.3/9

116.805+/-0.022 χ^2/NDF : 1058098.8/28

115.731+/-0.022 χ^2/NDF : 1054788.4/29

asym_bpm2i01WS_mean vs Slug



Right In: -2809.101 ± 48.284 χ^2/NDF : 21263.1/16

Left Out: -6613.344 ± 42.576 χ^2/NDF : 32436.3/11

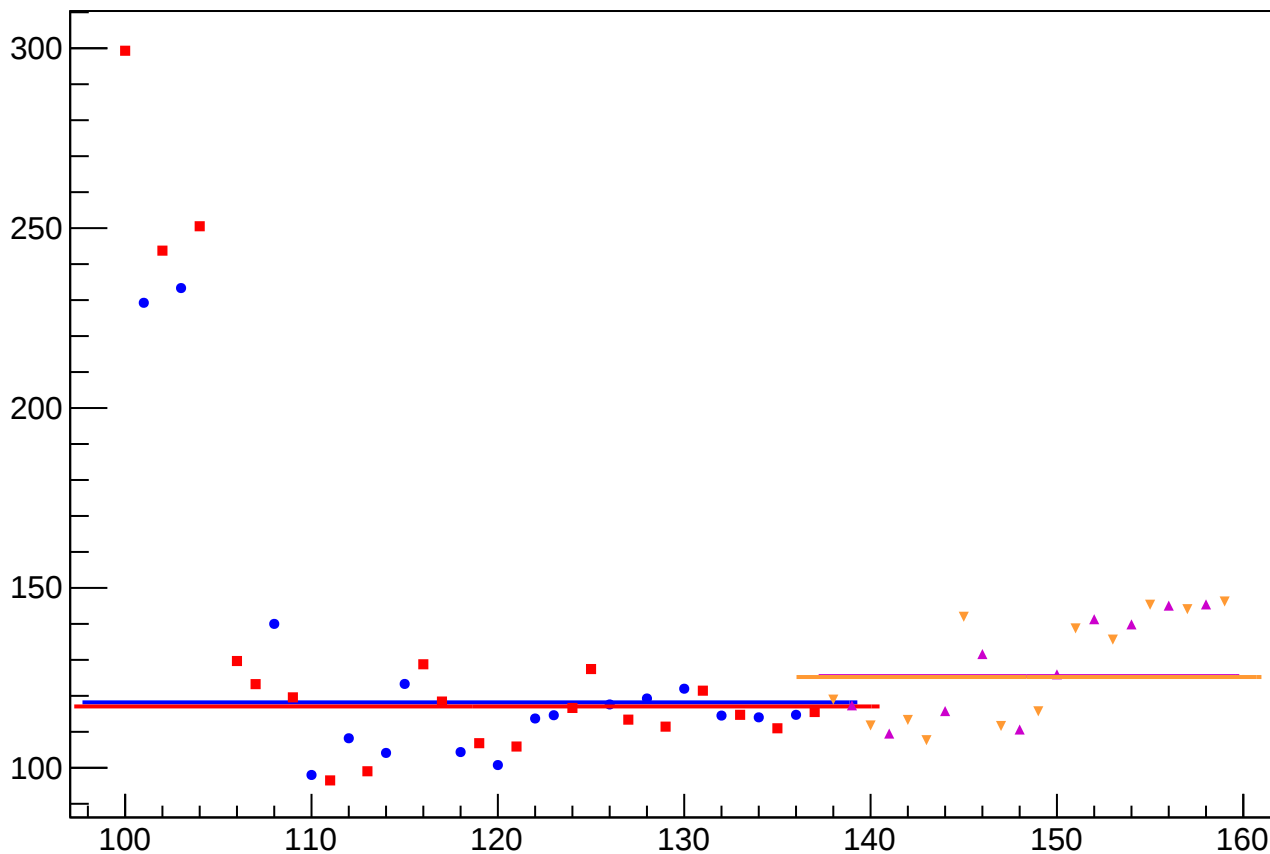
Right Out: 1486.369 ± 46.243 χ^2/NDF : 8037.1/19

Left In: 7141.926 ± 44.727 χ^2/NDF : 10000.1/9

-4949.309 ± 31.934 χ^2/NDF : 57191.8/28

4408.387 ± 32.149 χ^2/NDF : 25765.1/29

asym_bpm2i01WS_rms vs Slug



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 125.232+/-0.030 χ^2/NDF : 237695.1/11

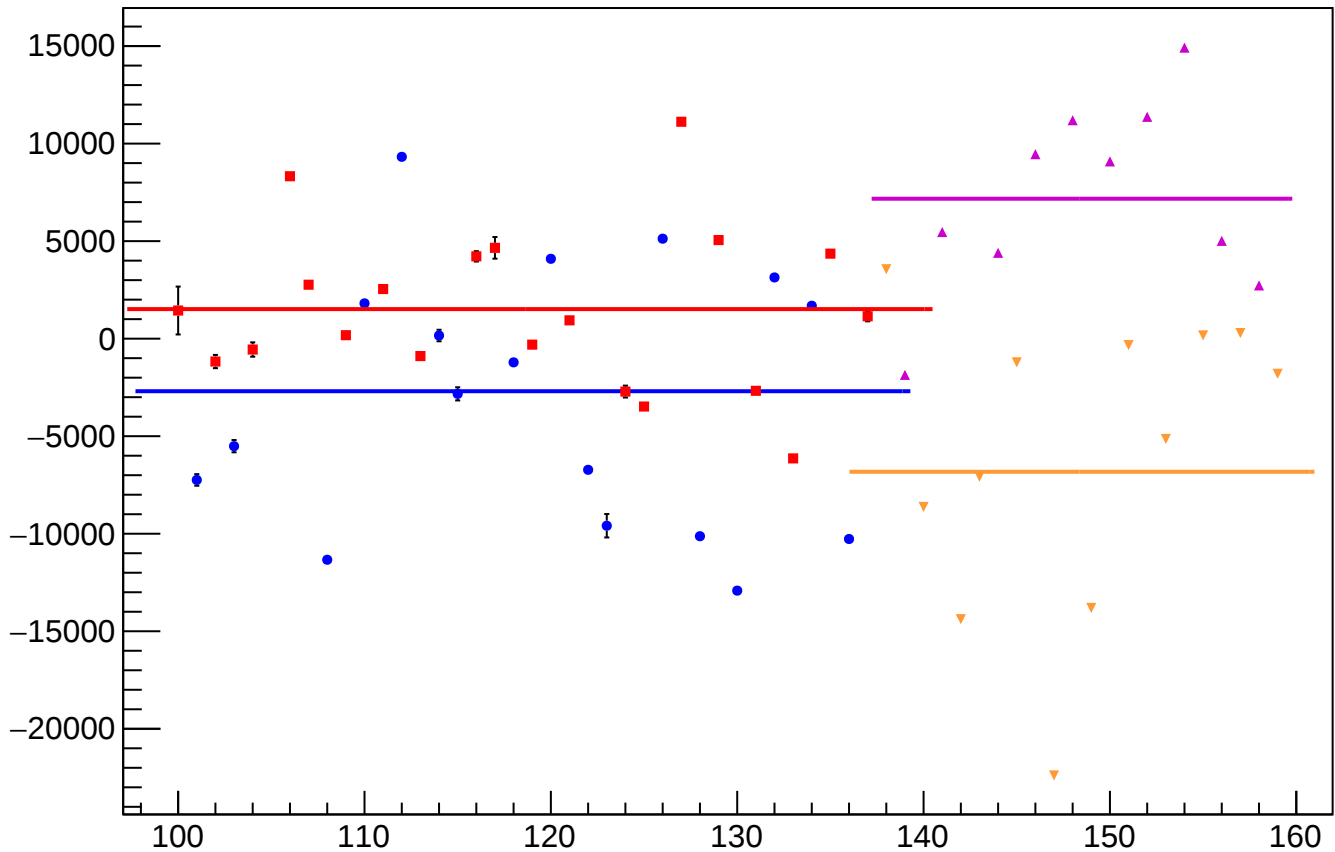
Right Out: 117.054+/-0.033 χ^2/NDF : 690646.8/19

Left In: 125.493+/-0.032 χ^2/NDF : 181122.0/9

122.151+/-0.023 χ^2/NDF : 897894.4/28

121.414+/-0.023 χ^2/NDF : 906178.0/29

asym_bpm2i02WS_mean vs Slug



Right In: -2694.260 ± 46.347 χ^2/NDF : 22860.3/16

Left Out: -6823.519 ± 41.430 χ^2/NDF : 35468.8/11

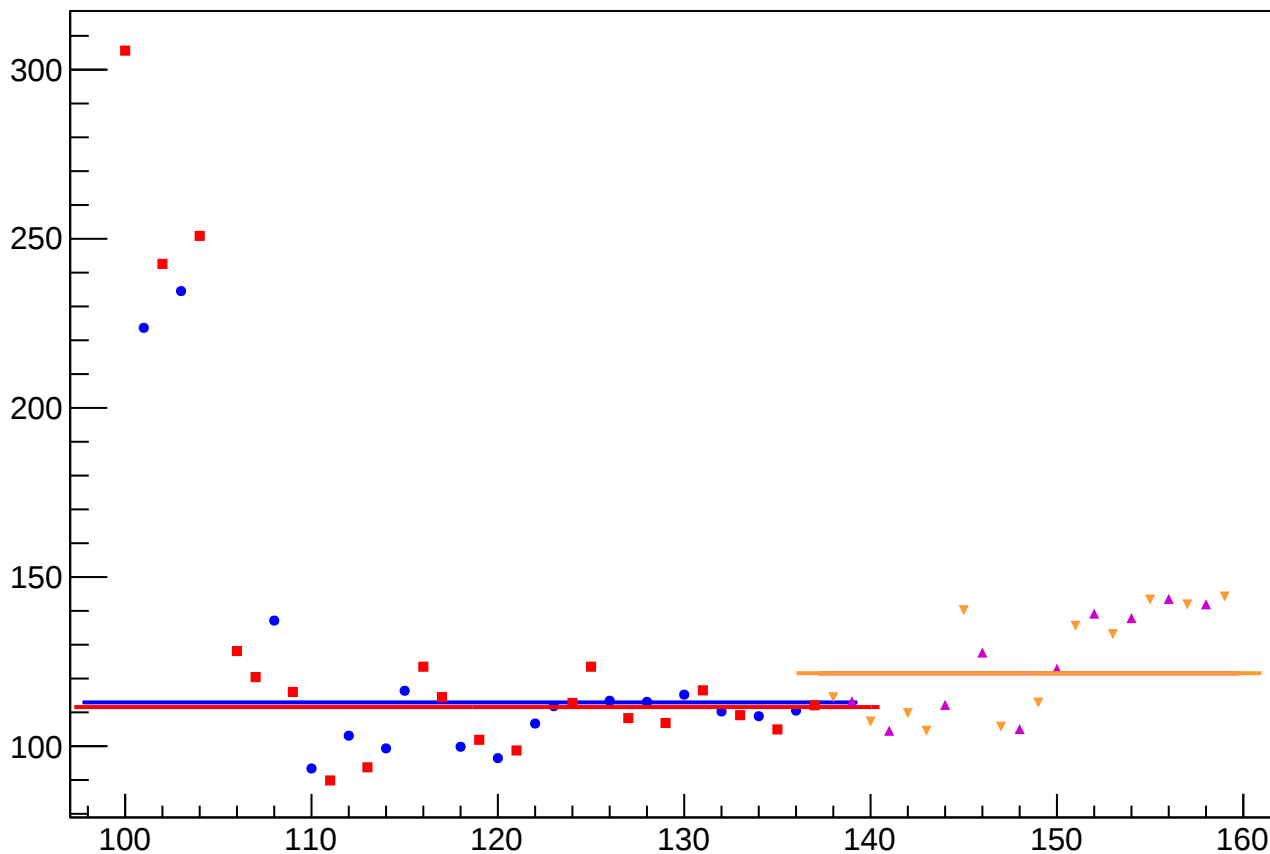
Right Out: 1515.863 ± 44.303 χ^2/NDF : 8749.3/19

Left In: 7174.359 ± 43.424 χ^2/NDF : 10763.3/9

-4989.502 ± 30.888 χ^2/NDF : 62741.3/28

4401.816 ± 31.011 χ^2/NDF : 27832.6/29

asym_bpm2i02WS_rms vs Slug



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 121.572 $\pm$ 0.029 χ^2 /NDF: 281820.6/11

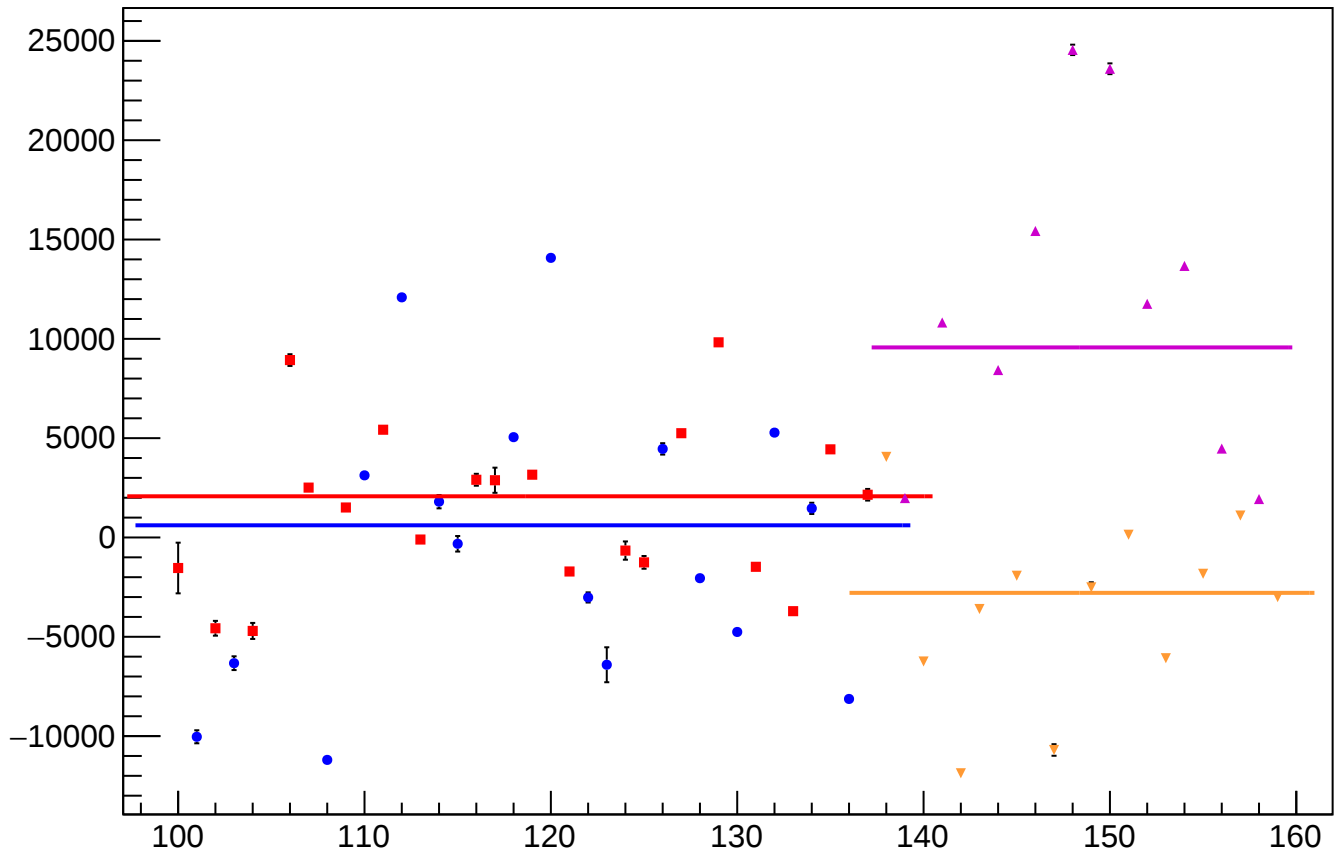
Right Out: 111.562 $\pm$ 0.031 χ^2 /NDF: 765559.1/19

Left In: 121.520 $\pm$ 0.031 χ^2 /NDF: 223040.0/9

117.738 $\pm$ 0.022 χ^2 /NDF: 1000664.2/28

116.641 $\pm$ 0.022 χ^2 /NDF: 1040124.9/29

asym_bpm0i01WS_mean vs Slug



Right In: 612.621+/-56.062 χ^2/NDF : 18243.4/16

Left Out: -2788.093+/-52.032 χ^2/NDF : 6012.3/11

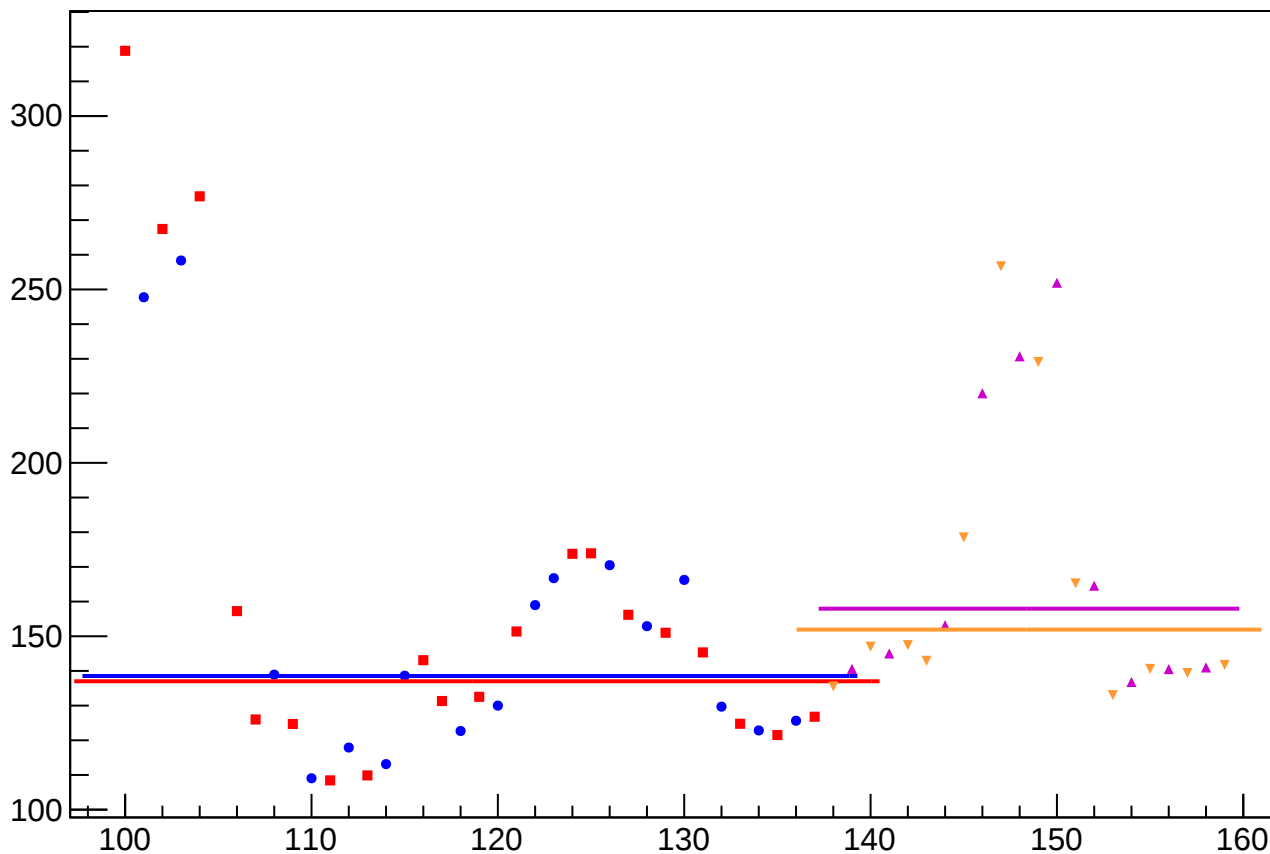
Right Out: 2073.278+/-53.736 χ^2/NDF : 4644.3/19

Left In: 9568.255+/-57.158 χ^2/NDF : 12794.6/9

-1214.349+/-38.137 χ^2/NDF : 26232.5/28

5589.707+/-39.151 χ^2/NDF : 26566.2/29

asym_bpm0i01WS_rms vs Slug



Right In: 138.542+/-0.040 χ^2/NDF : 668941.7/16

Left Out: 151.916+/-0.037 χ^2/NDF : 575563.2/11

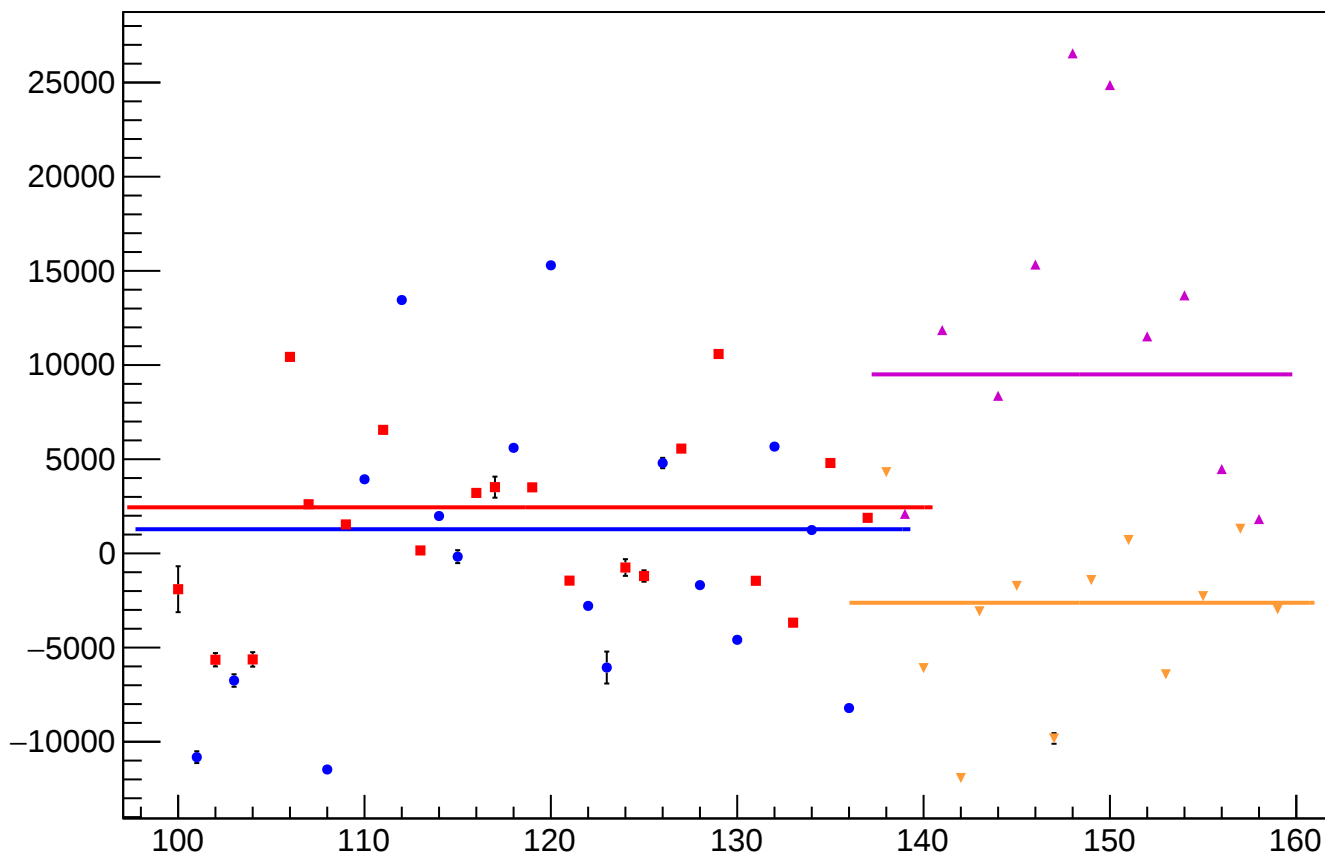
Right Out: 137.019+/-0.038 χ^2/NDF : 755655.0/19

Left In: 157.954+/-0.040 χ^2/NDF : 647534.8/9

145.727+/-0.027 χ^2/NDF : 1305651.2/28

146.841+/-0.028 χ^2/NDF : 1545608.4/29

asym_bpm0i01aWS_mean vs Slug



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2621.389+/-46.066 χ^2/NDF :8050.0/11

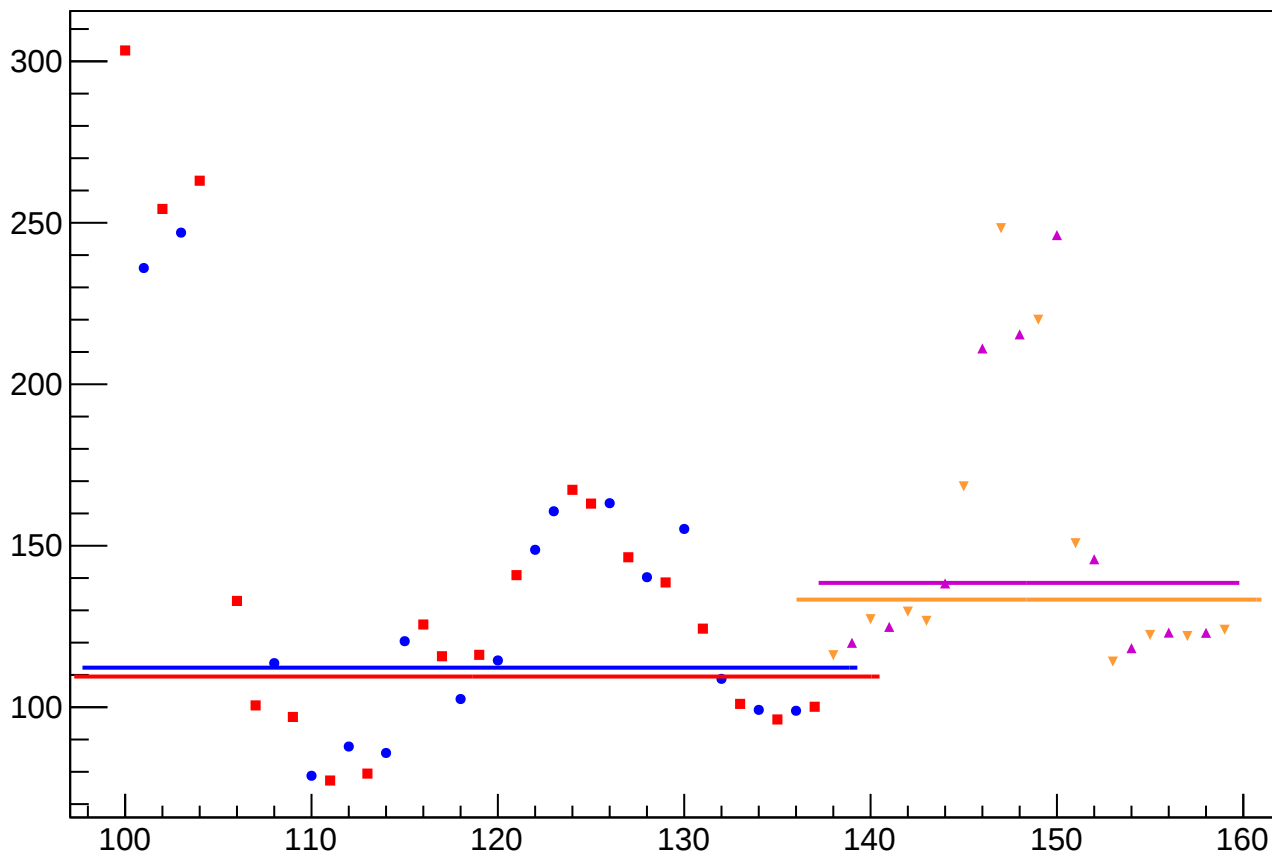
Right Out: 2446.970+/-44.148 χ^2/NDF : 7681.2/19

Left In: 9503.853+/-50.712 χ^2/NDF :17150.1/9

-690.538+/-32.751 χ^2/NDF : 42143.4/28

5489.383+/-33.298 χ^2/NDF : 35847.0/29

asym_bpm0i01aWS_rms vs Slug



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 133.318+/-0.033 χ^2/NDF : 784387.1/11

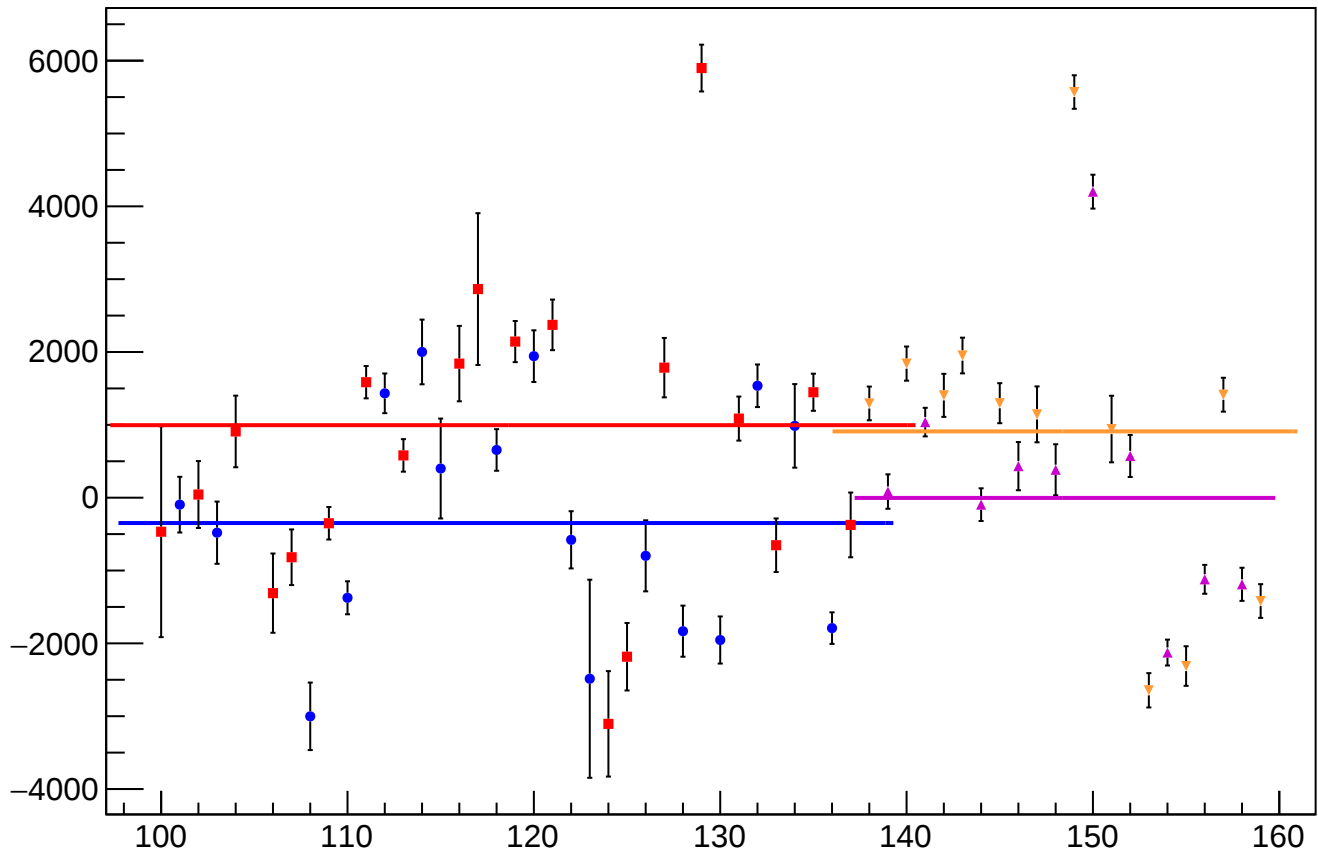
Right Out: 109.500+/-0.031 χ^2/NDF : 1269887.8/19

Left In: 138.499+/-0.036 χ^2/NDF : 867881.0/9

122.899+/-0.023 χ^2/NDF : 2116783.5/28

122.002+/-0.024 χ^2/NDF : 2509807.3/29

asym_bpm0l01WS_mean vs Slug



Right In: -348.055+/-83.826 χ^2/NDF : 317.3/16

Left Out: 910.165+/-75.096 χ^2/NDF : 925.0/11

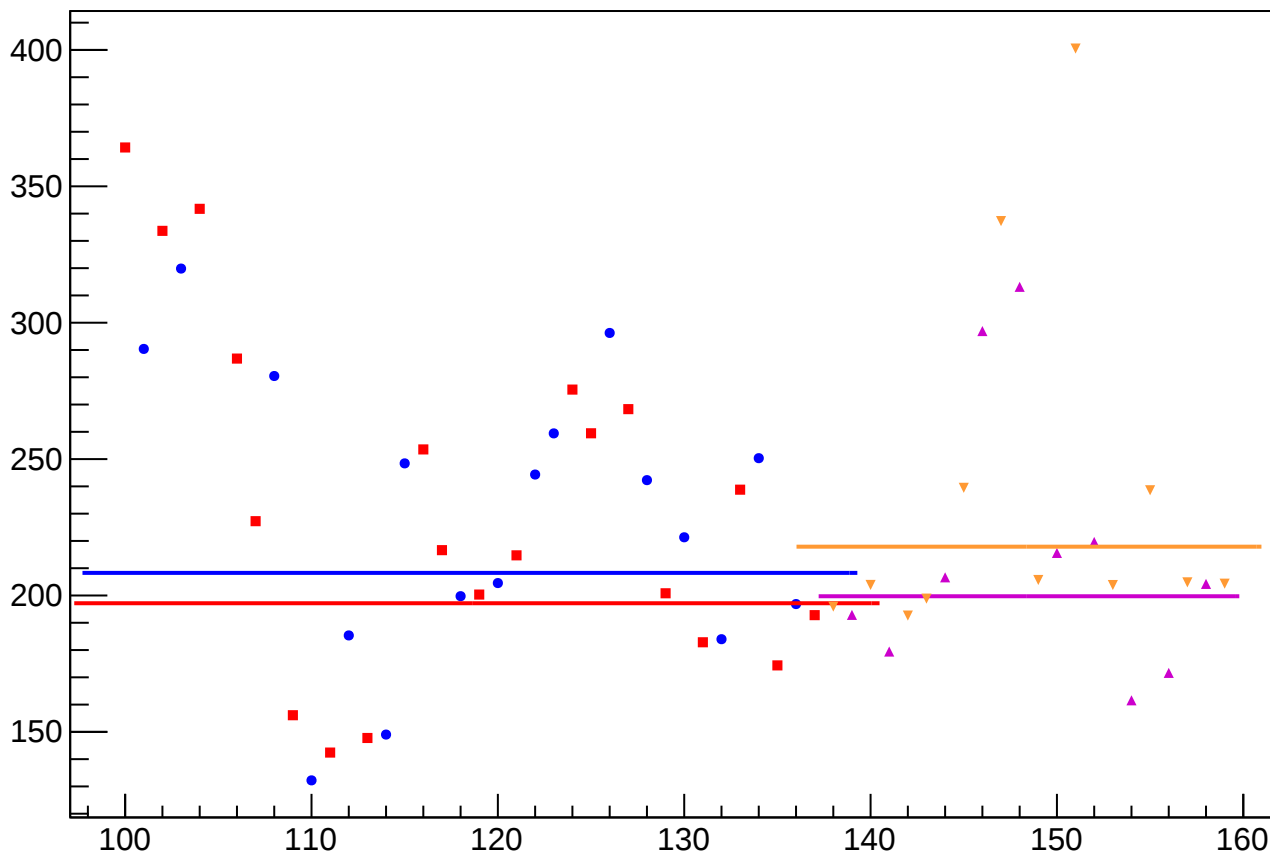
Right Out: 995.622+/-77.468 χ^2/NDF : 479.8/19

Left In: -3.232+/-72.959 χ^2/NDF : 563.6/9

349.967+/-55.934 χ^2/NDF : 1367.3/28

466.281+/-53.112 χ^2/NDF : 1131.5/29

asym_bpm0l01WS_rms vs Slug



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 217.896+/-0.053 χ^2/NDF : 614527.8/11

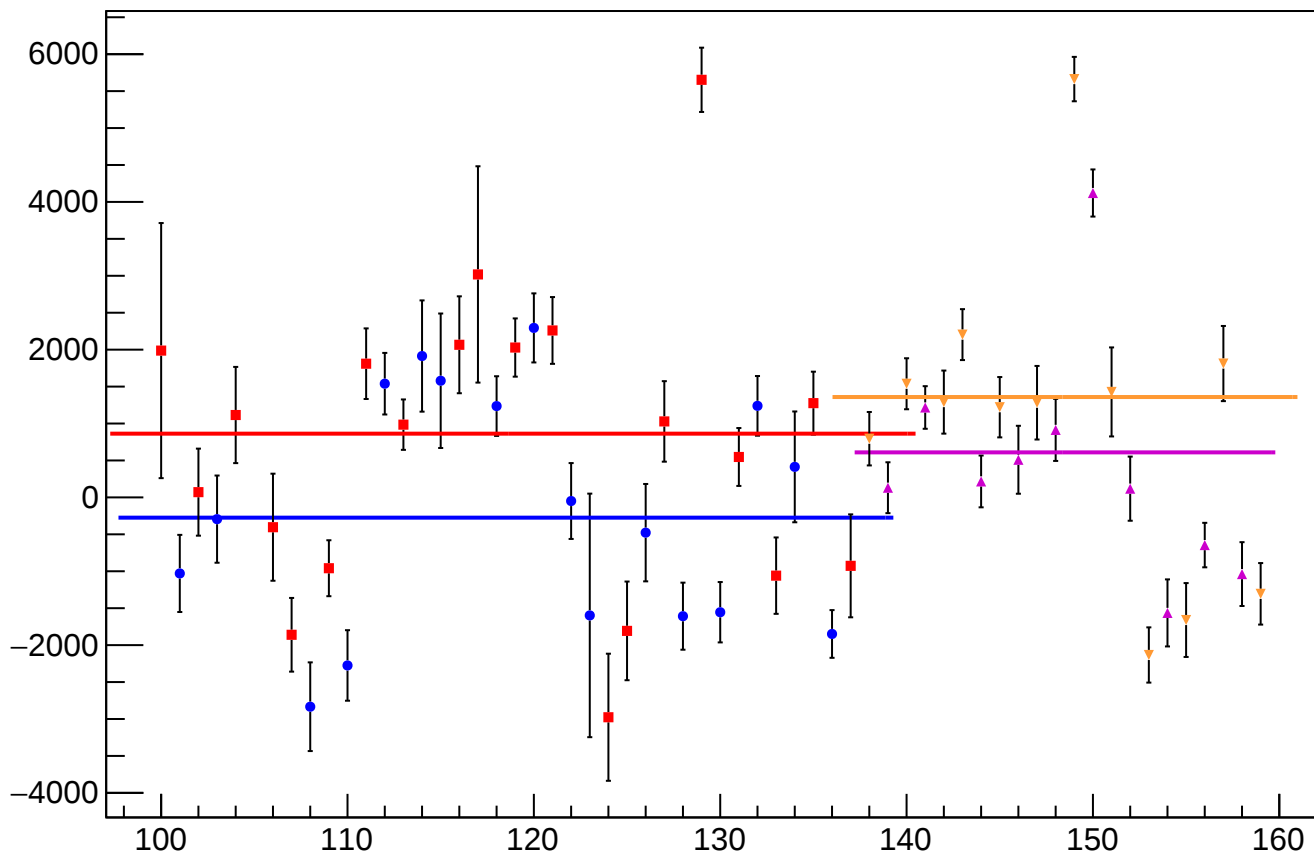
Right Out: 197.159+/-0.055 χ^2/NDF : 927487.8/19

Left In: 199.721+/-0.052 χ^2/NDF : 558751.4/9

213.618+/-0.040 χ^2/NDF : 1327596.7/28

198.517+/-0.038 χ^2/NDF : 1487398.0/29

asym_bpm0l02WS_mean vs Slug



Right In: -274.260 ± 121.326 χ^2/NDF : 171.6/16

Left Out: 1358.680 ± 115.799 χ^2/NDF : 379.4/11

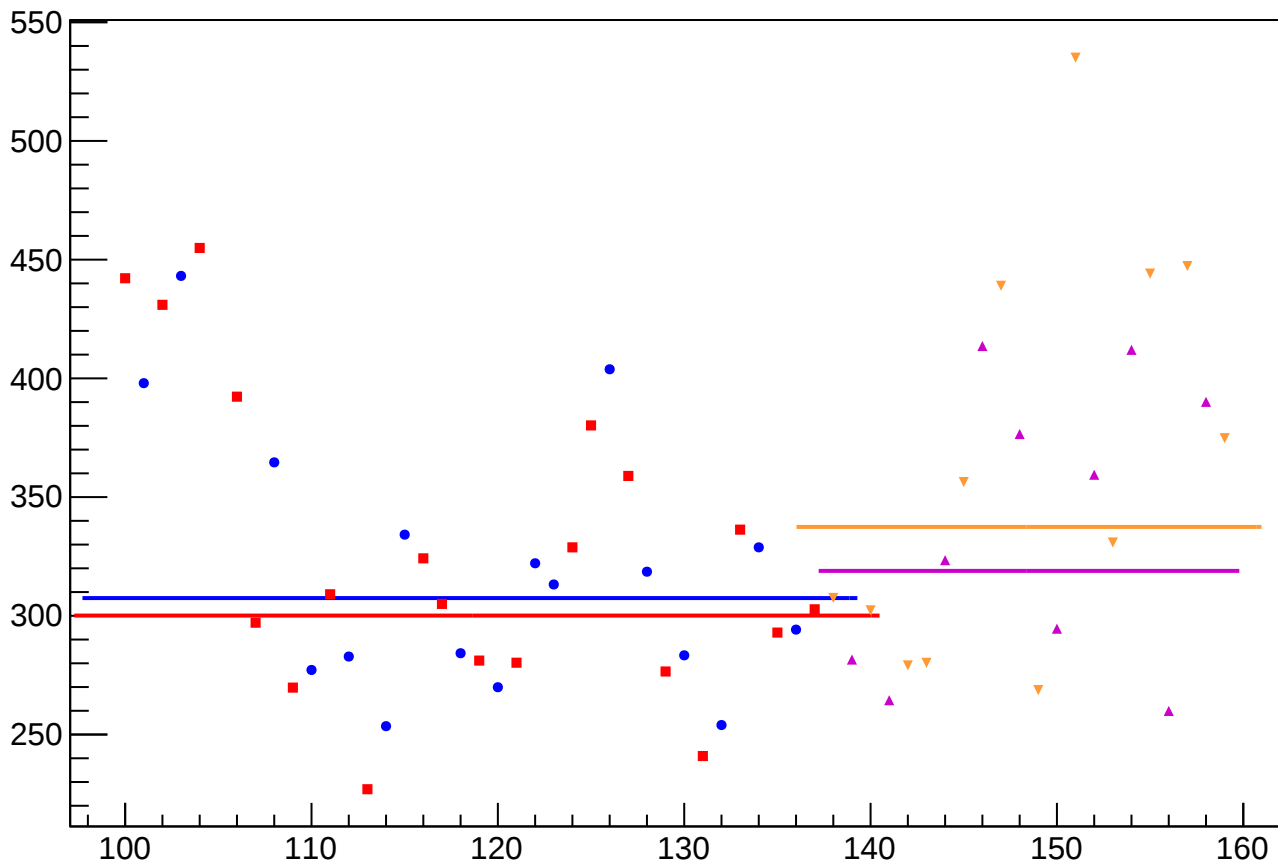
Right Out: 862.791 ± 114.993 χ^2/NDF : 265.4/19

Left In: 609.412 ± 115.209 χ^2/NDF : 185.4/9

580.249 ± 83.768 χ^2/NDF : 645.8/28

736.340 ± 81.389 χ^2/NDF : 453.3/29

asym_bpm0l02WS_rms vs Slug



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 337.439+/-0.082 χ^2/NDF : 735048.2/11

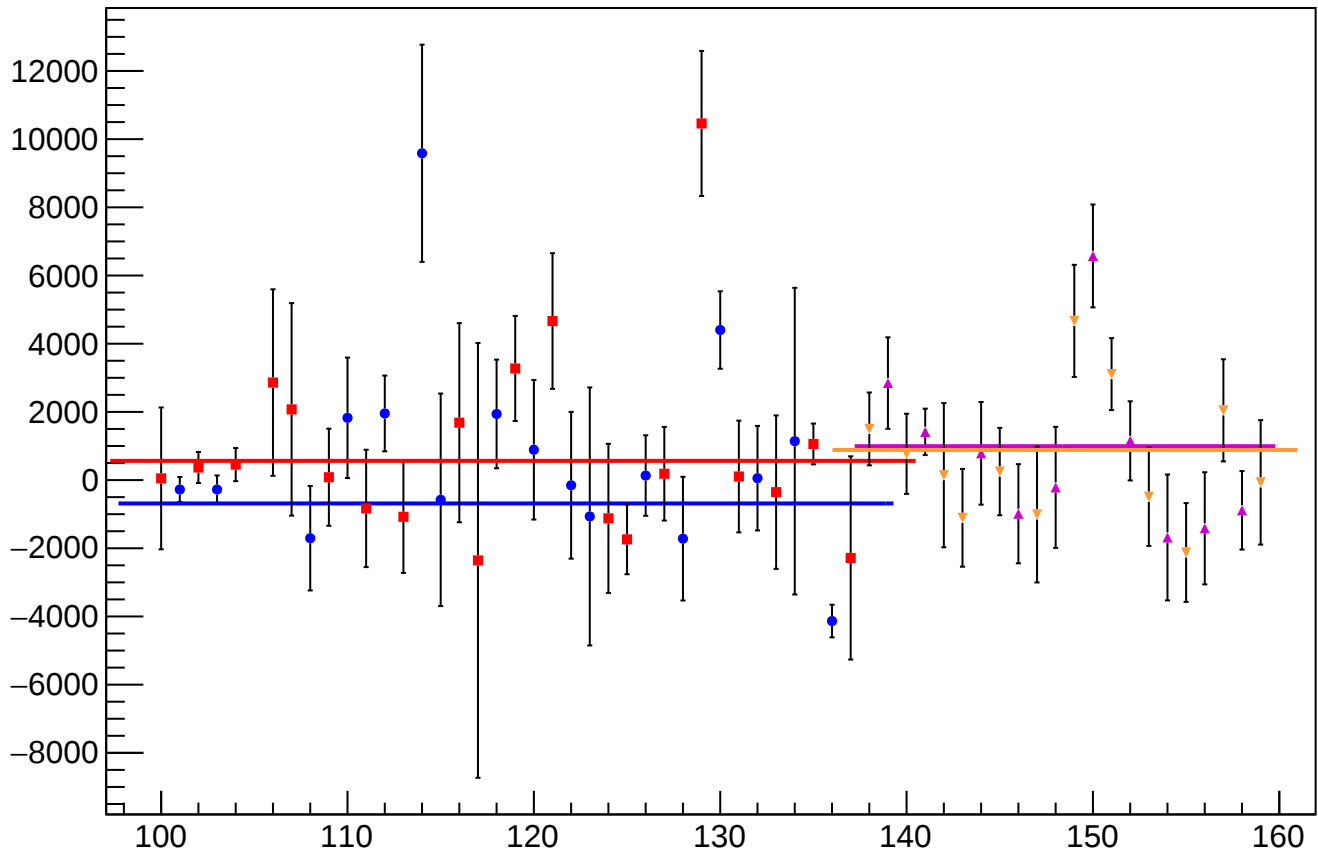
Right Out: 300.100+/-0.081 χ^2/NDF : 490421.6/19

Left In: 318.923+/-0.081 χ^2/NDF : 461918.1/9

323.152+/-0.059 χ^2/NDF : 1122013.7/28

309.494+/-0.058 χ^2/NDF : 979083.0/29

asym_bpm0l03WS_mean vs Slug



Right In: -685.056+/-210.341 χ^2/NDF : 97.4/16

Left Out: 883.968+/-403.556 χ^2/NDF : 19.4/11

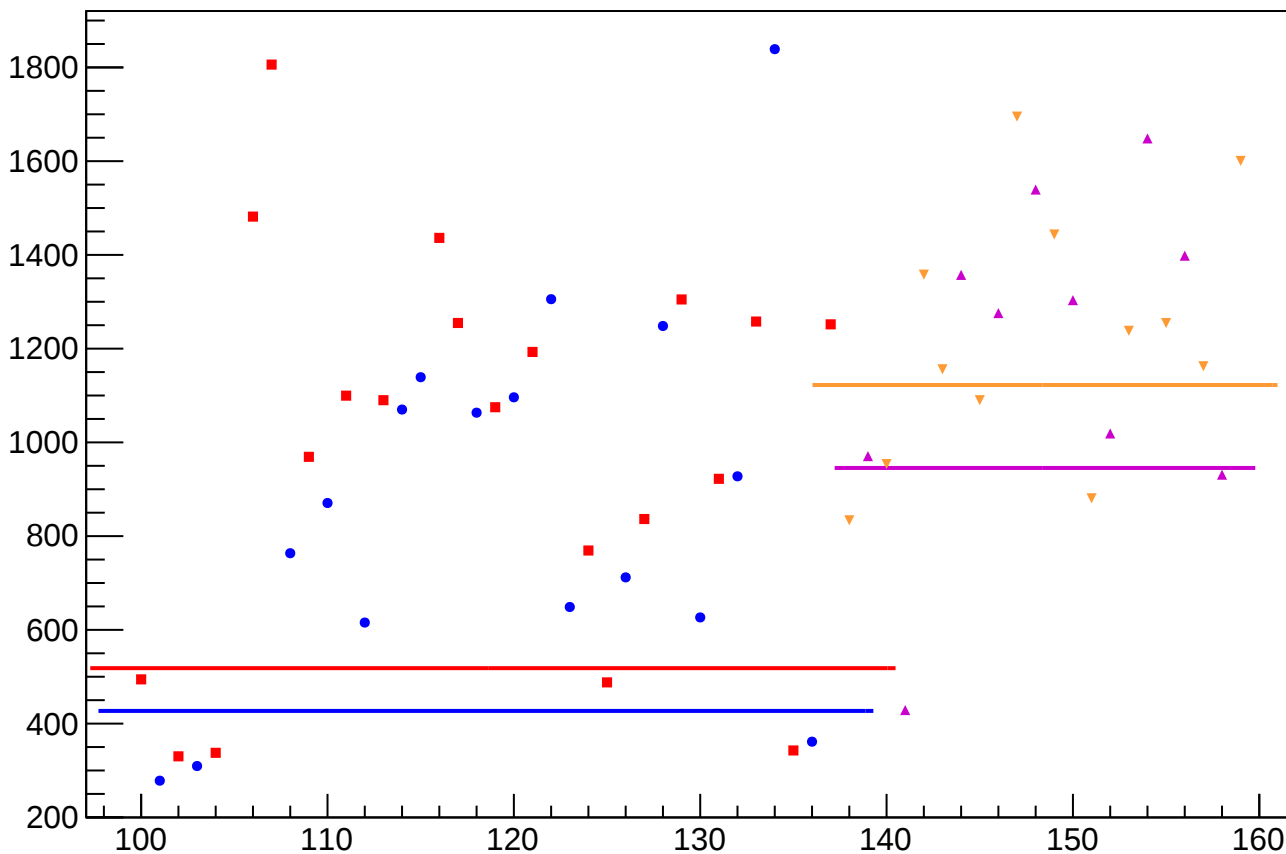
Right Out: 564.400+/-243.074 χ^2/NDF : 39.9/19

Left In: 993.414+/-390.880 χ^2/NDF : 25.2/9

-349.863+/-186.525 χ^2/NDF : 128.6/28

684.040+/-206.417 χ^2/NDF : 66.0/29

asym_bpm0l03WS_rms vs Slug



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 1122.435+/-0.285 χ^2/NDF : 728477.3/11

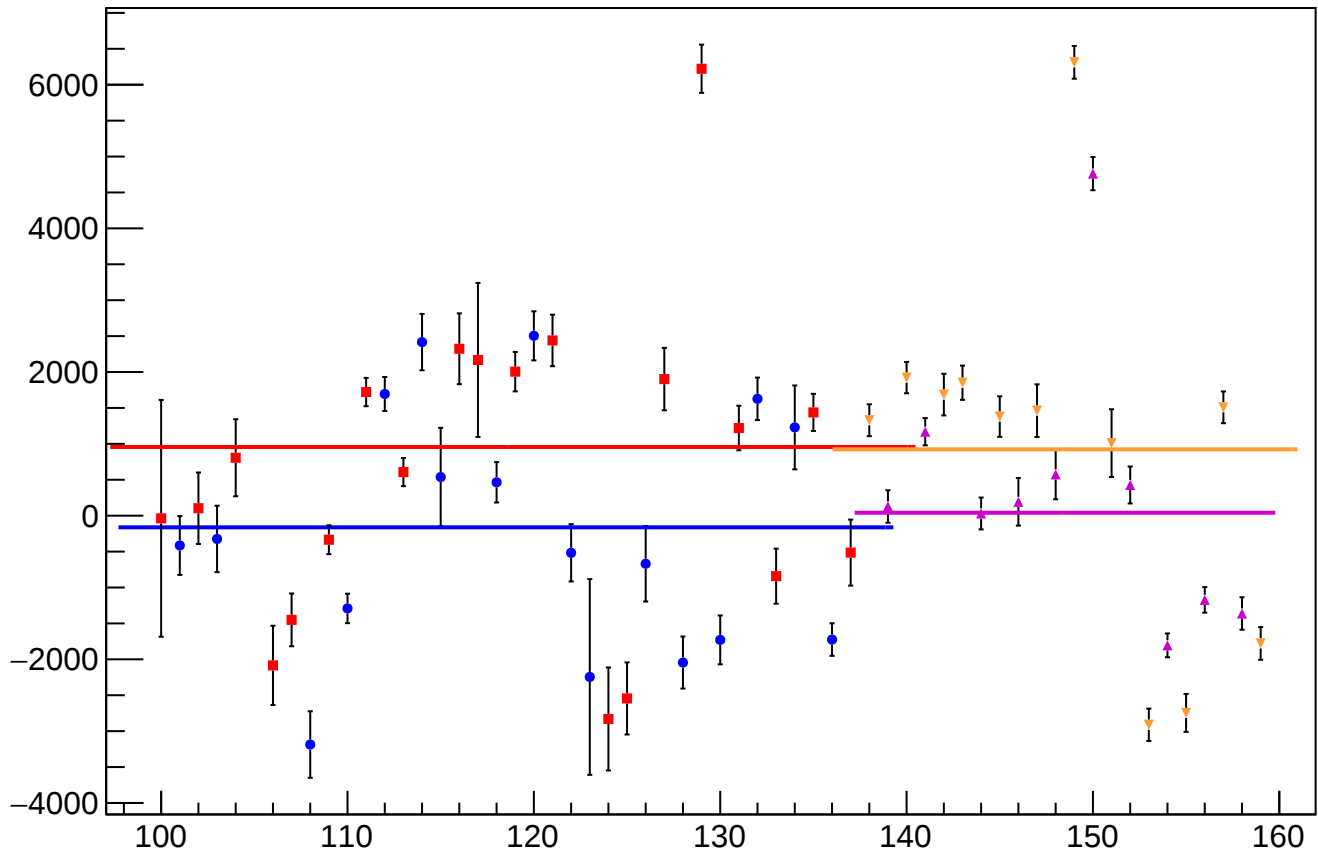
Right Out: 518.306+/-0.172 χ^2/NDF : 3631833.9/19

Left In: 945.439+/-0.276 χ^2/NDF : 2192064.0/9

575.629+/-0.132 χ^2/NDF : 8263575.4/28

637.421+/-0.146 χ^2/NDF : 7546089.1/29

asym_bpm0l04WS_mean vs Slug



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 923.550 ± 72.834 χ^2/NDF : 1241.0/11

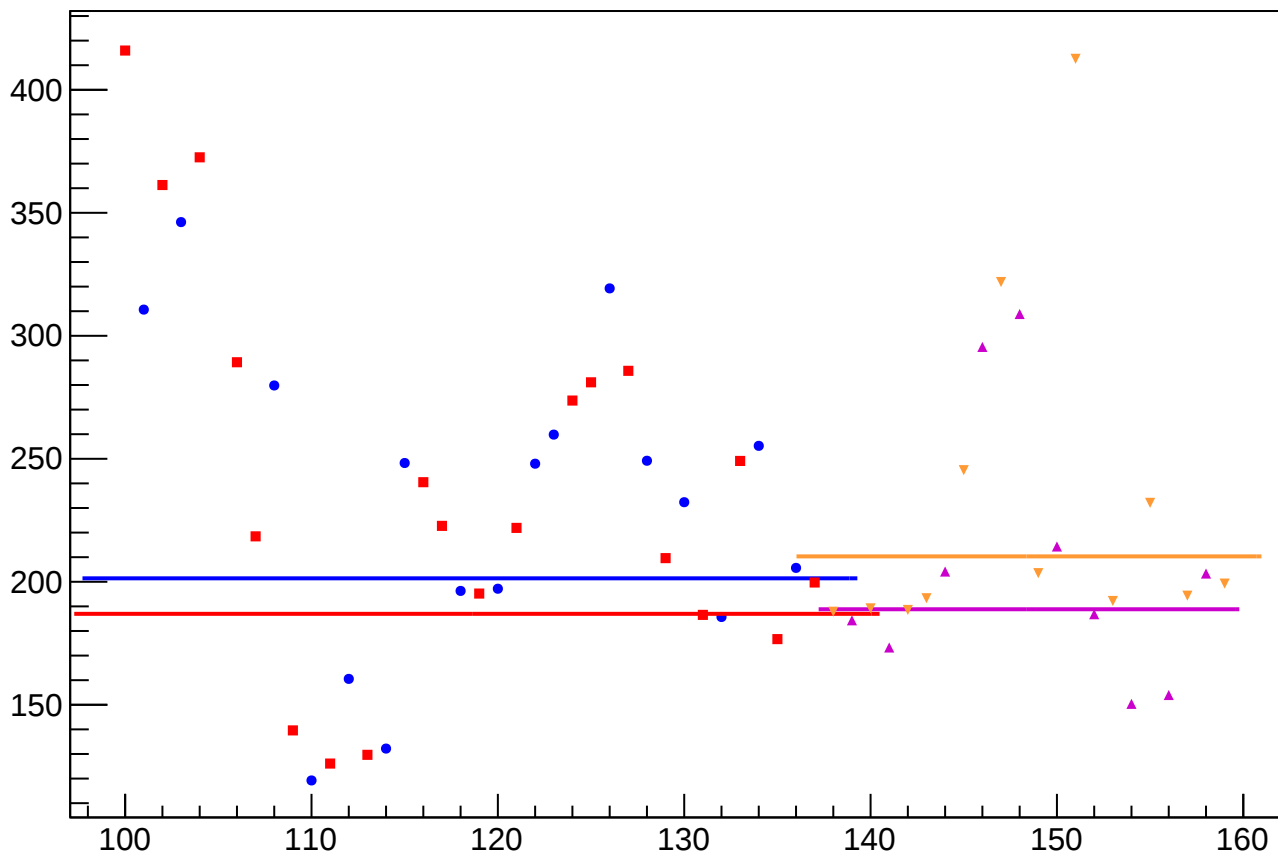
Right Out: 956.044 ± 74.949 χ^2/NDF : 541.1/19

Left In: 40.961 ± 69.600 χ^2/NDF : 665.5/9

446.950 ± 54.557 χ^2/NDF : 1726.1/28

464.685 ± 51.001 χ^2/NDF : 1286.6/29

asym_bpm0l04WS_rms vs Slug



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 210.328 $\pm$ 0.052 χ^2 /NDF: 688102.3/11

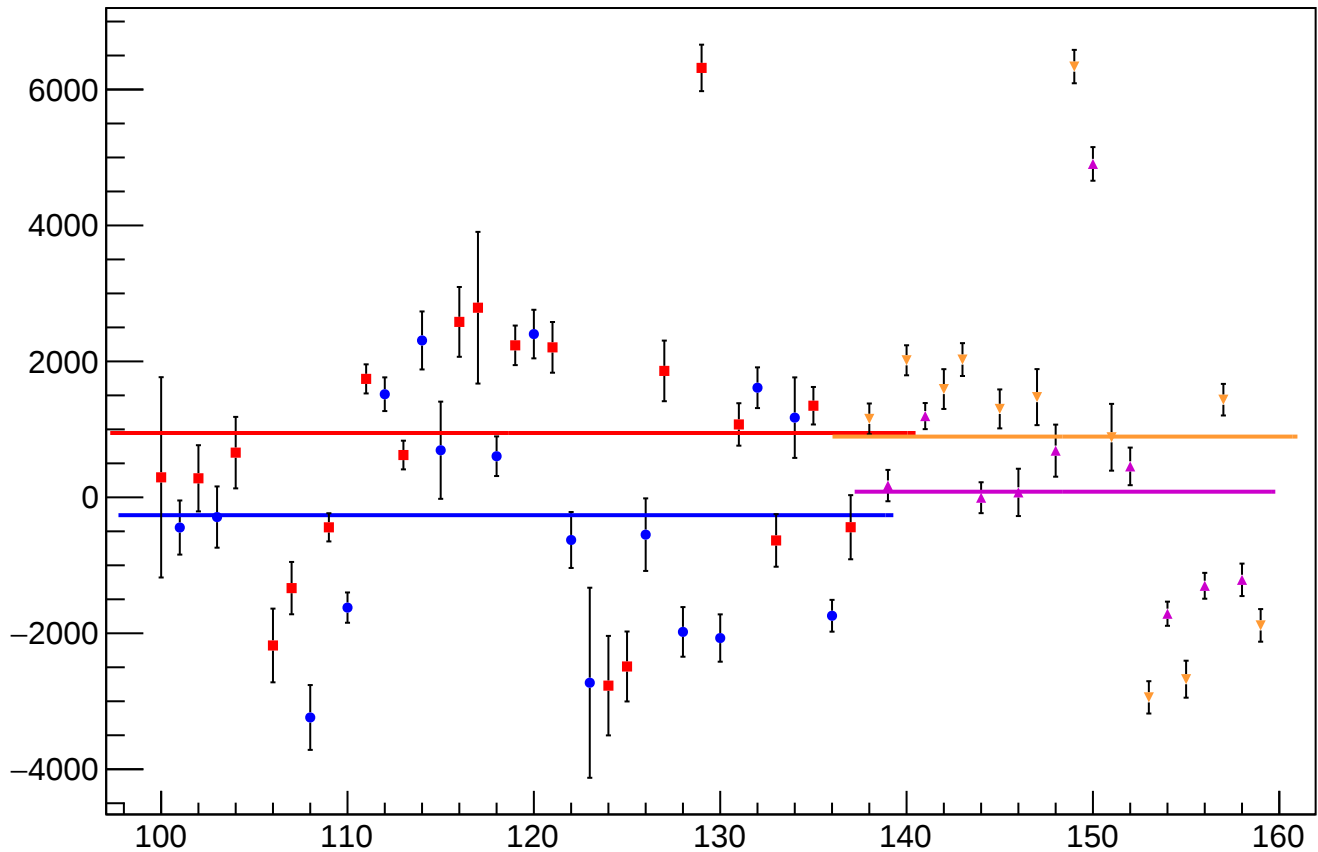
Right Out: 186.973 $\pm$ 0.053 χ^2 /NDF: 1395397.8/19

Left In: 188.834 $\pm$ 0.049 χ^2 /NDF: 689691.4/9

206.414 $\pm$ 0.039 χ^2 /NDF: 1757287.1/28

187.972 $\pm$ 0.036 χ^2 /NDF: 2085751.0/29

asym_bpm0l05WS_mean vs Slug



Right In: -262.324 ± 85.433 χ^2/NDF : 368.7/16

Left Out: 893.805 ± 75.670 χ^2/NDF : 1121.7/11

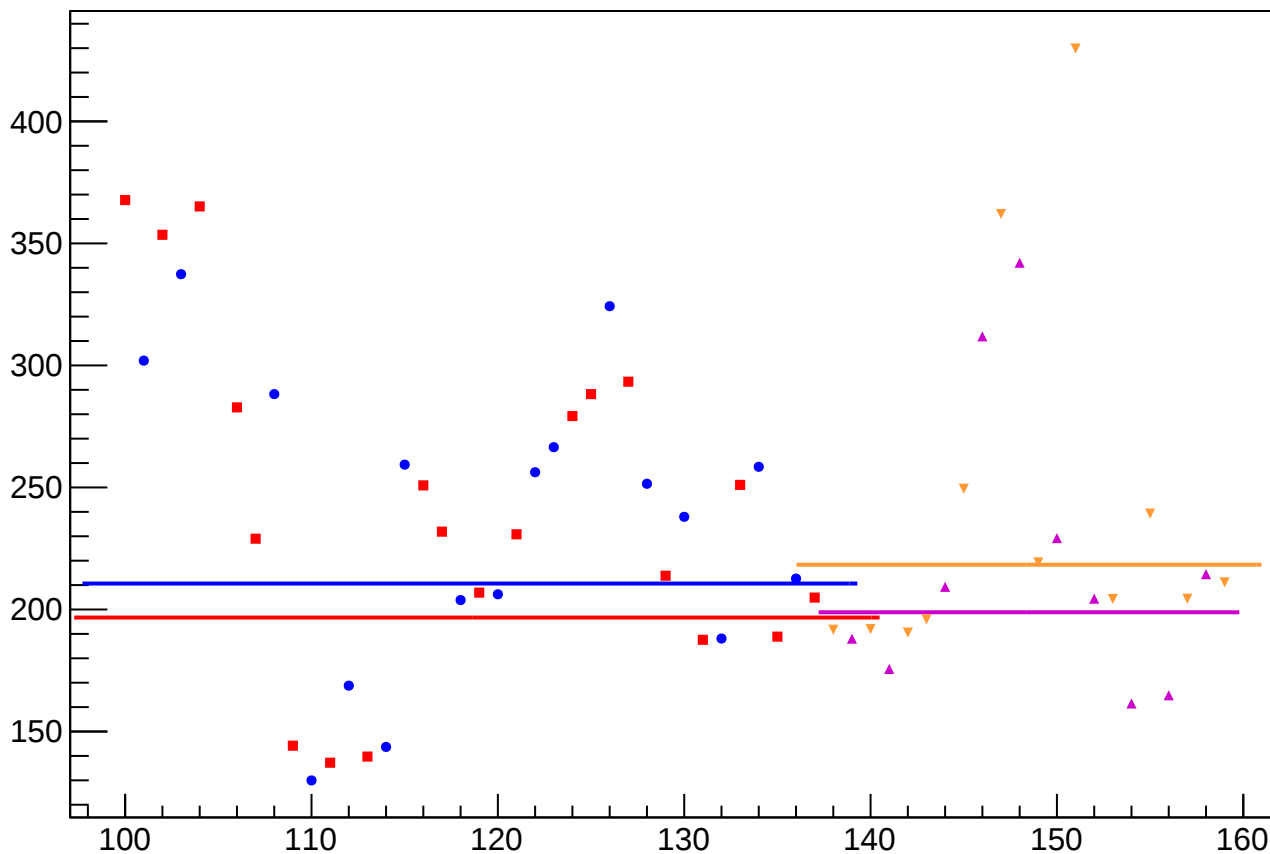
Right Out: 946.785 ± 78.241 χ^2/NDF : 524.6/19

Left In: 83.065 ± 73.211 χ^2/NDF : 602.4/9

385.547 ± 56.646 χ^2/NDF : 1593.1/28

486.272 ± 53.458 χ^2/NDF : 1192.1/29

asym_bpm0l05WS_rms vs Slug



Right In: 210.636 ± 0.060 $\chi^2/\text{NDF}: 875776.4/16$

Left Out: 218.346 ± 0.054 $\chi^2/\text{NDF}: 756594.0/11$

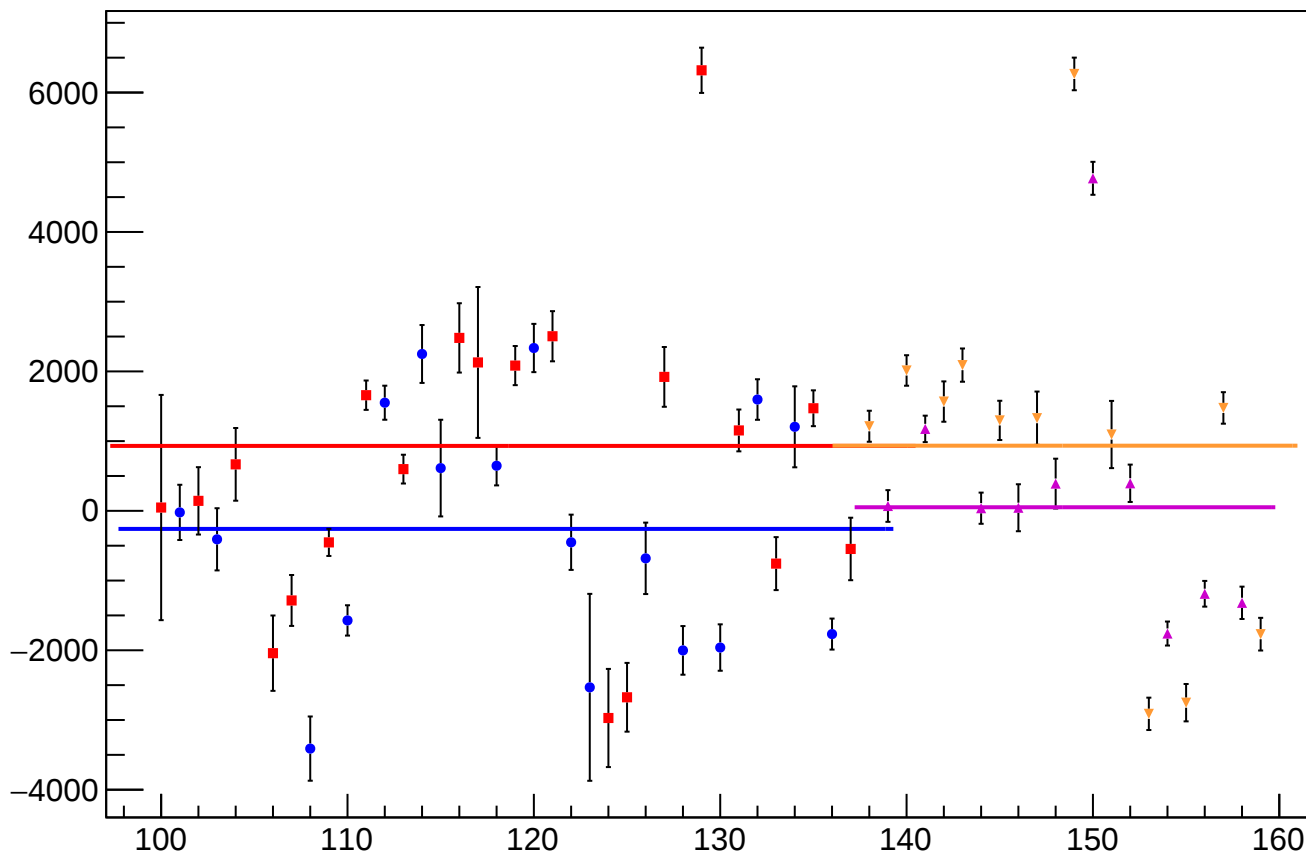
Right Out: 196.702 ± 0.055 $\chi^2/\text{NDF}: 1207089.6/19$

Left In: 198.857 ± 0.052 $\chi^2/\text{NDF}: 720201.0/9$

214.956 ± 0.040 $\chi^2/\text{NDF}: 1641497.9/28$

197.851 ± 0.038 $\chi^2/\text{NDF}: 1928099.7/29$

asym_bpm0l06WS_mean vs Slug



Right In: -259.139 ± 82.802 χ^2/NDF : 391.2/16

Left Out: 934.584 ± 73.934 χ^2/NDF : 1179.2/11

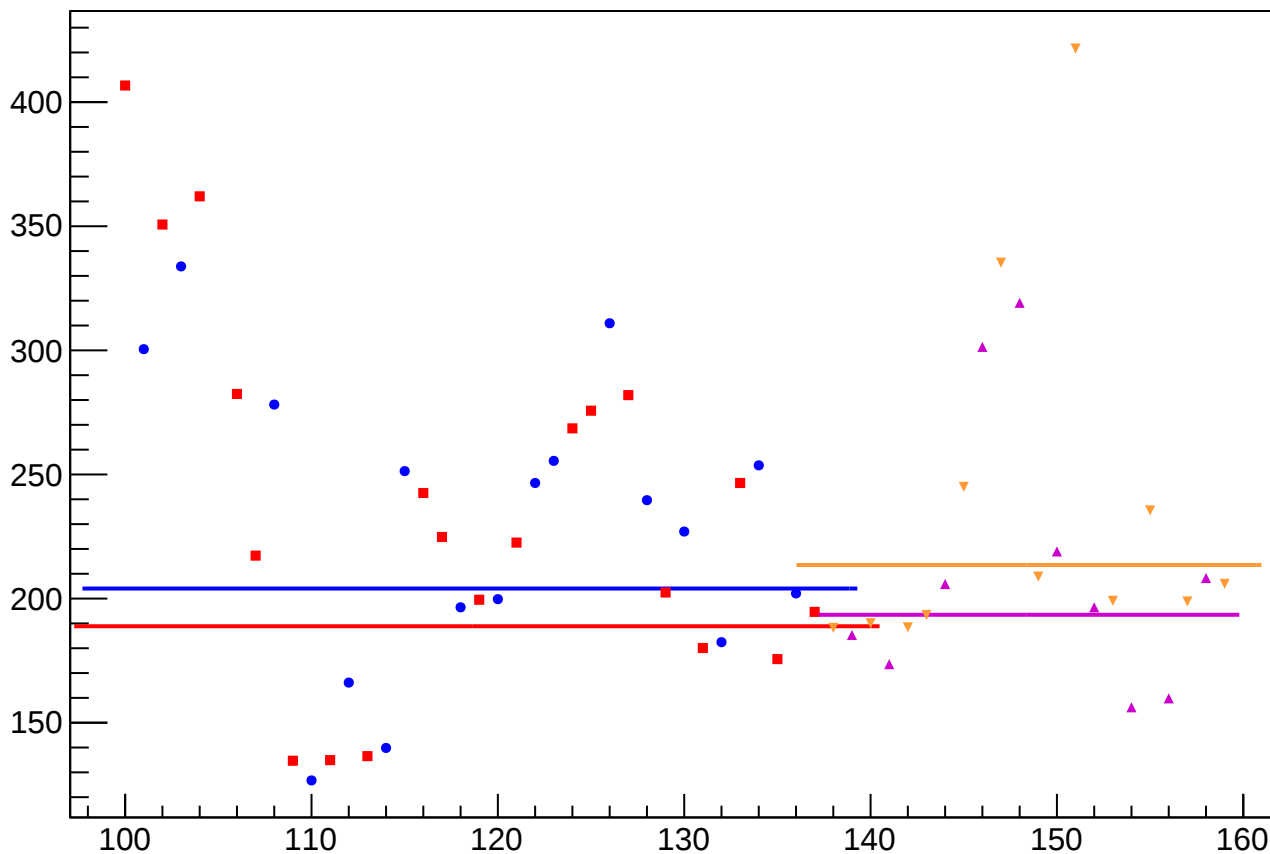
Right Out: 931.363 ± 75.320 χ^2/NDF : 583.1/19

Left In: 51.445 ± 71.198 χ^2/NDF : 626.9/9

405.047 ± 55.149 χ^2/NDF : 1686.1/28

466.667 ± 51.740 χ^2/NDF : 1282.0/29

asym_bpm0l06WS_rms vs Slug



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 213.534+/-0.052 χ^2/NDF : 712000.0/11

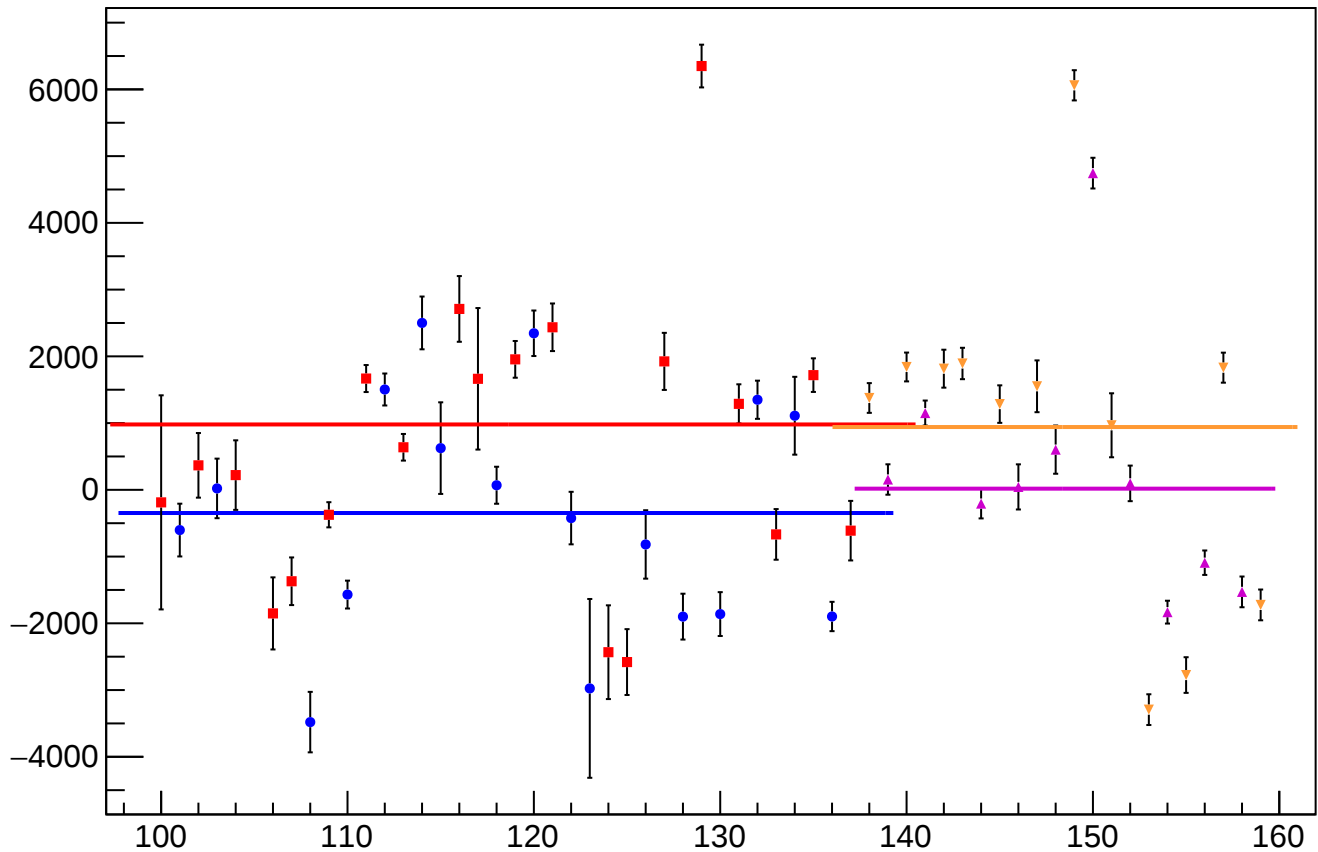
Right Out: 188.856+/-0.053 χ^2/NDF : 1253327.1/19

Left In: 193.477+/-0.050 χ^2/NDF : 675190.9/9

209.327+/-0.039 χ^2/NDF : 1595018.4/28

191.296+/-0.037 χ^2/NDF : 1932494.2/29

asym_bpm0l07WS_mean vs Slug



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 940.900 ± 73.212 χ^2/NDF : 1242.6/11

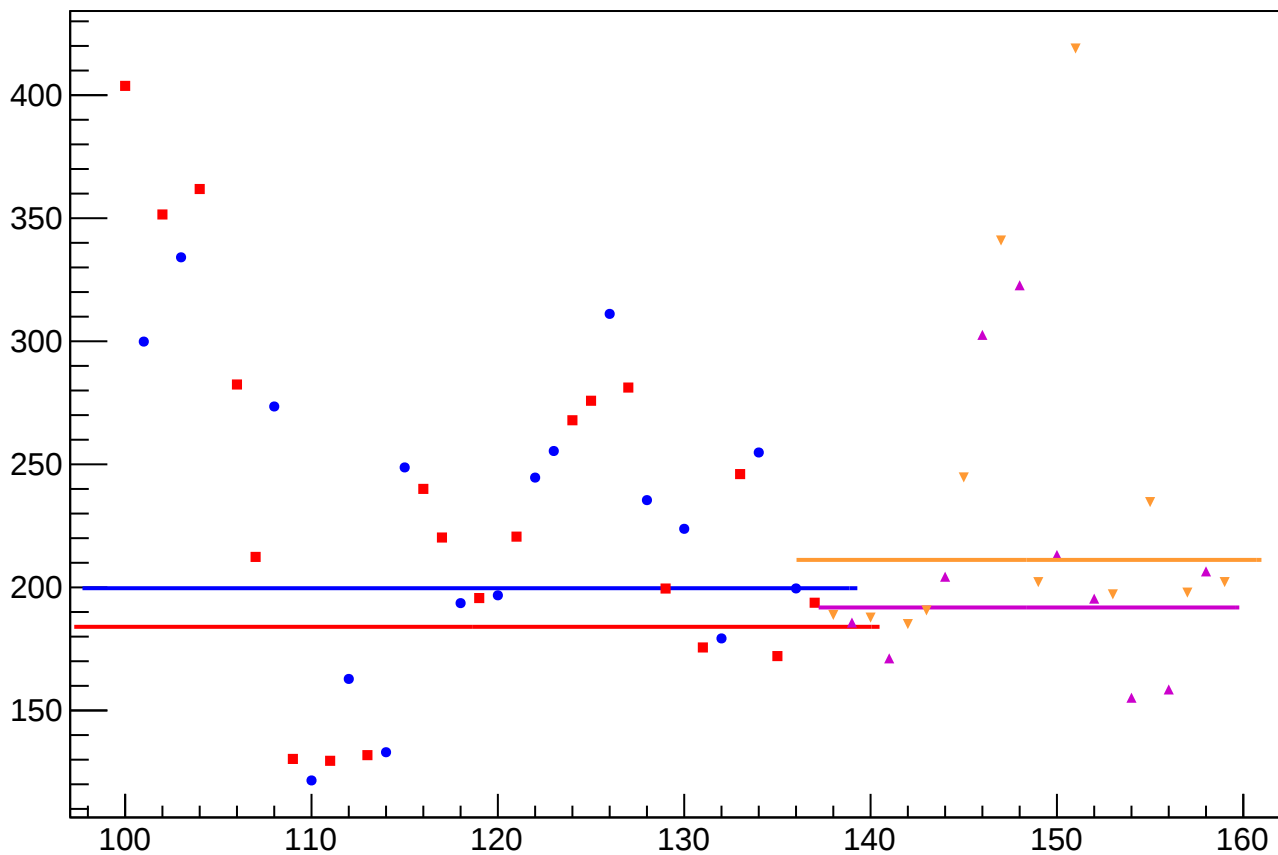
Right Out: 979.606 ± 73.710 χ^2/NDF : 586.1/19

Left In: 17.572 ± 70.649 χ^2/NDF : 661.7/9

364.214 ± 54.409 χ^2/NDF : 1780.3/28

478.200 ± 51.004 χ^2/NDF : 1336.6/29

asym_bpm0l07WS_rms vs Slug



Right In: 199.669 ± 0.058 χ^2/NDF : 943155.1/16

Left Out: 211.175 ± 0.052 χ^2/NDF : 739572.9/11

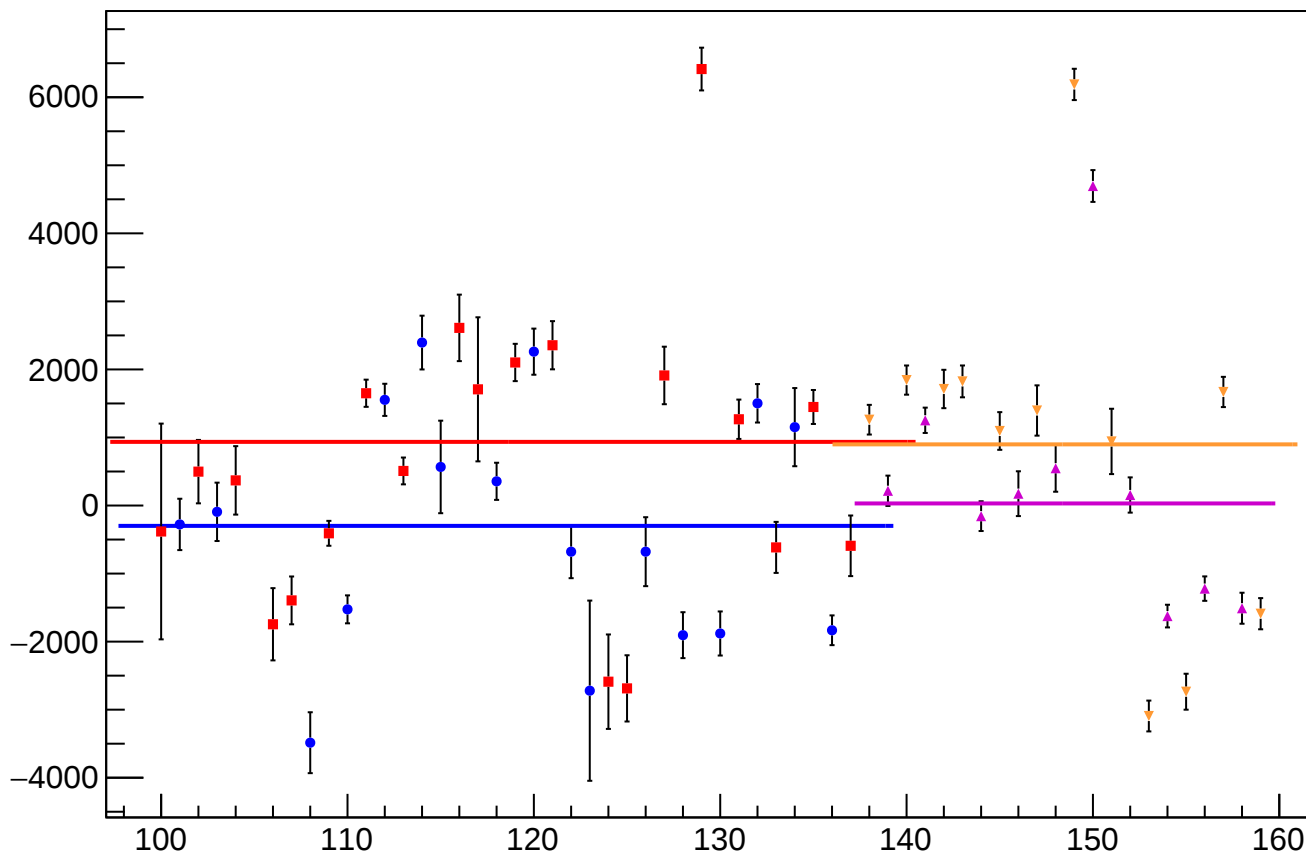
Right Out: 183.984 ± 0.052 χ^2/NDF : 1351978.1/19

Left In: 191.843 ± 0.050 χ^2/NDF : 692956.3/9

206.024 ± 0.038 χ^2/NDF : 1704844.3/28

188.080 ± 0.036 χ^2/NDF : 2056782.7/29

asym_bpm0l08WS_mean vs Slug



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 898.794 ± 72.484 $\chi^2/\text{NDF}: 1207.3/11$

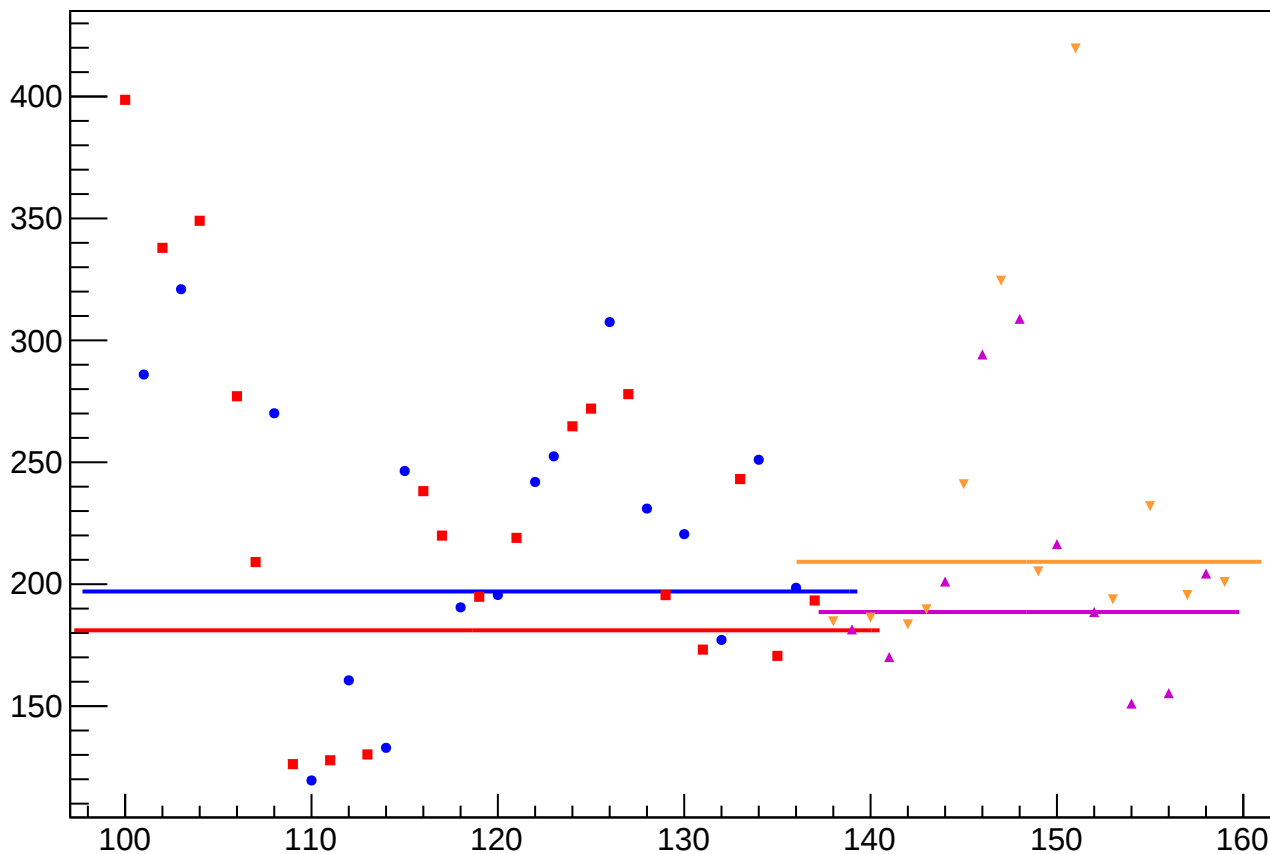
Right Out: 935.490 ± 72.580 $\chi^2/\text{NDF}: 615.3/19$

Left In: 30.674 ± 69.492 $\chi^2/\text{NDF}: 638.9/9$

360.008 ± 53.764 $\chi^2/\text{NDF}: 1736.7/28$

463.428 ± 50.194 $\chi^2/\text{NDF}: 1335.3/29$

asym_bpm0l08WS_rms vs Slug



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 209.189+/-0.051 χ^2/NDF : 718743.1/11

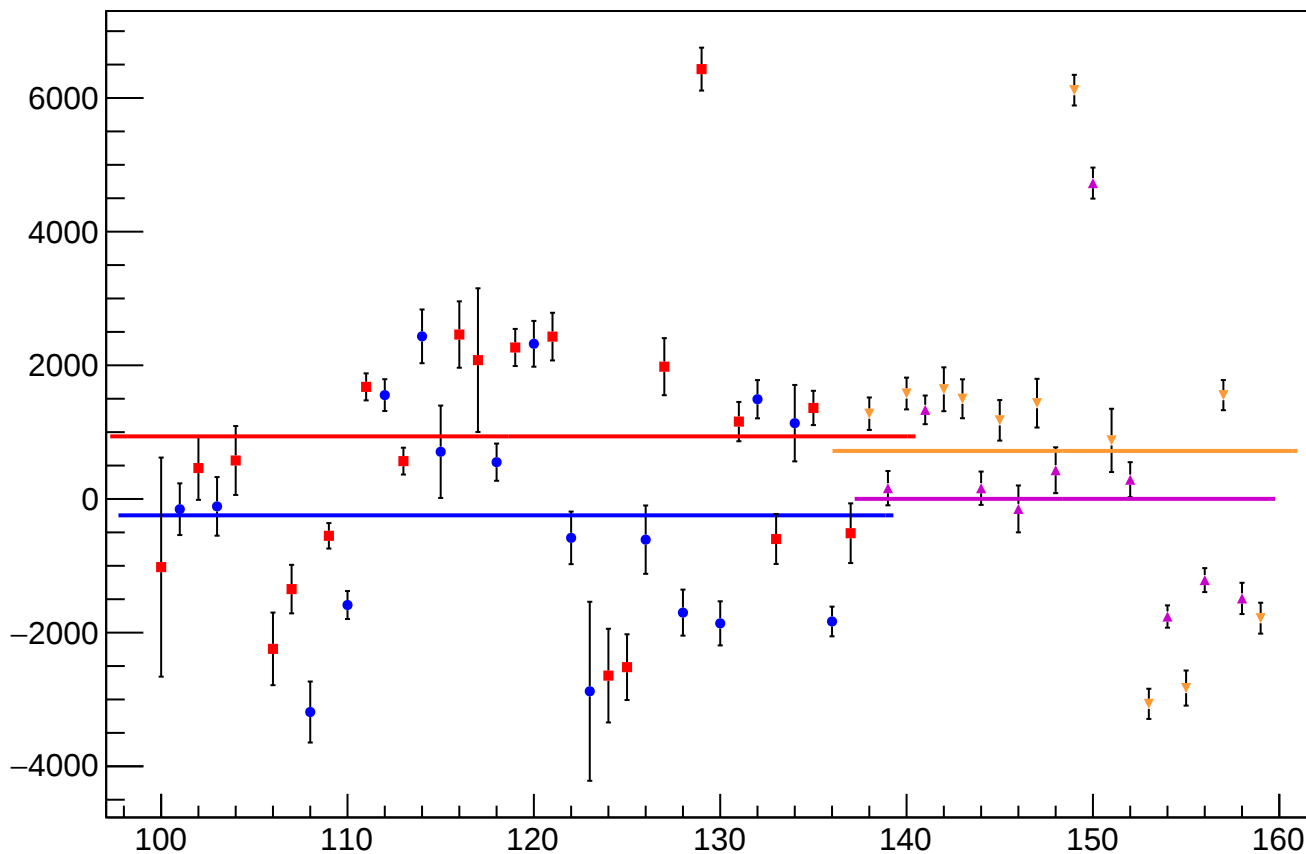
Right Out: 181.089+/-0.051 χ^2/NDF : 1348390.5/19

Left In: 188.587+/-0.049 χ^2/NDF : 684263.4/9

203.712+/-0.038 χ^2/NDF : 1656053.1/28

185.001+/-0.035 χ^2/NDF : 2043788.5/29

asym_bpm0l09WS_mean vs Slug



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 718.854 ± 76.704 χ^2/NDF : 1187.6/11

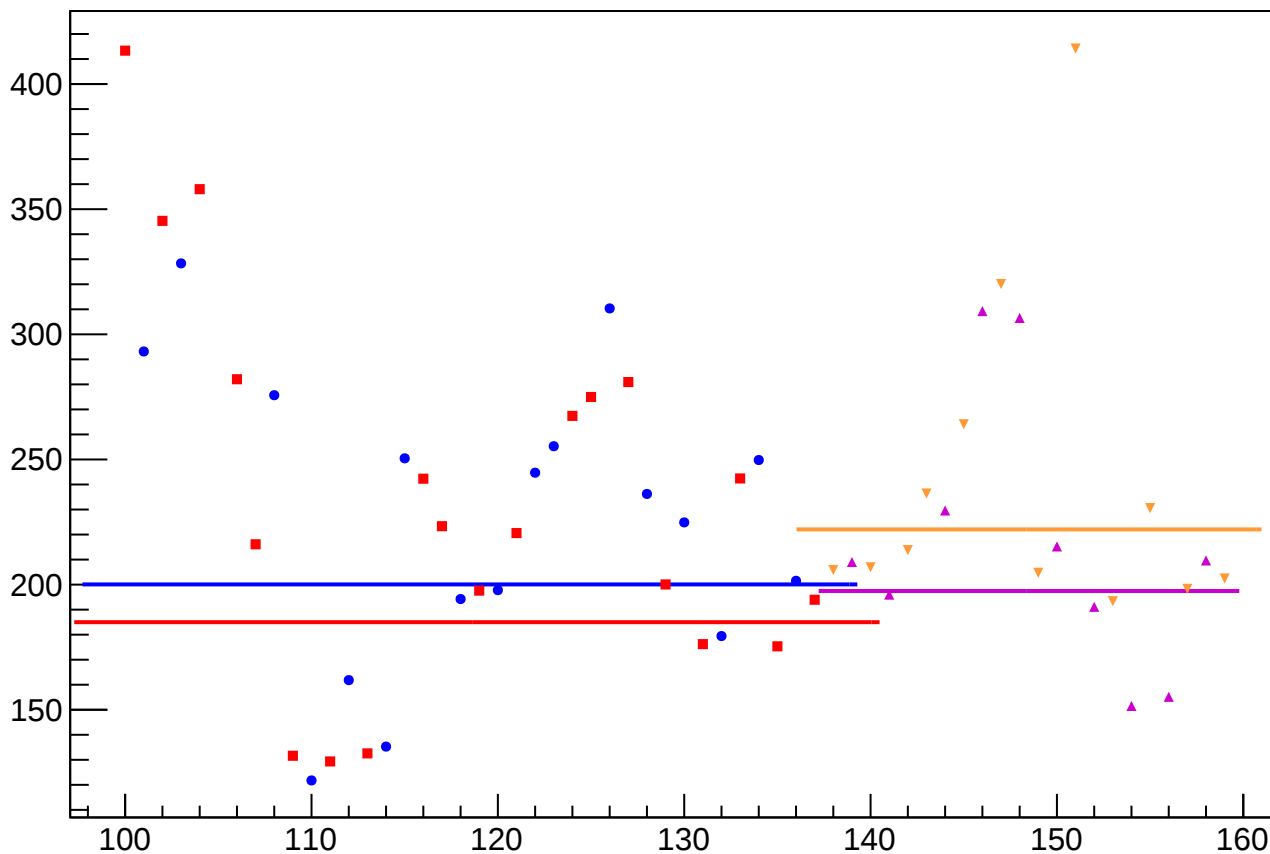
Right Out: 936.709 ± 74.030 χ^2/NDF : 610.9/19

Left In: 1.596 ± 72.948 χ^2/NDF : 653.2/9

265.533 ± 55.823 χ^2/NDF : 1653.3/28

462.273 ± 51.960 χ^2/NDF : 1345.0/29

asym_bpm0l09WS_rms vs Slug



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 222.061+/-0.054 χ^2/NDF : 617630.4/11

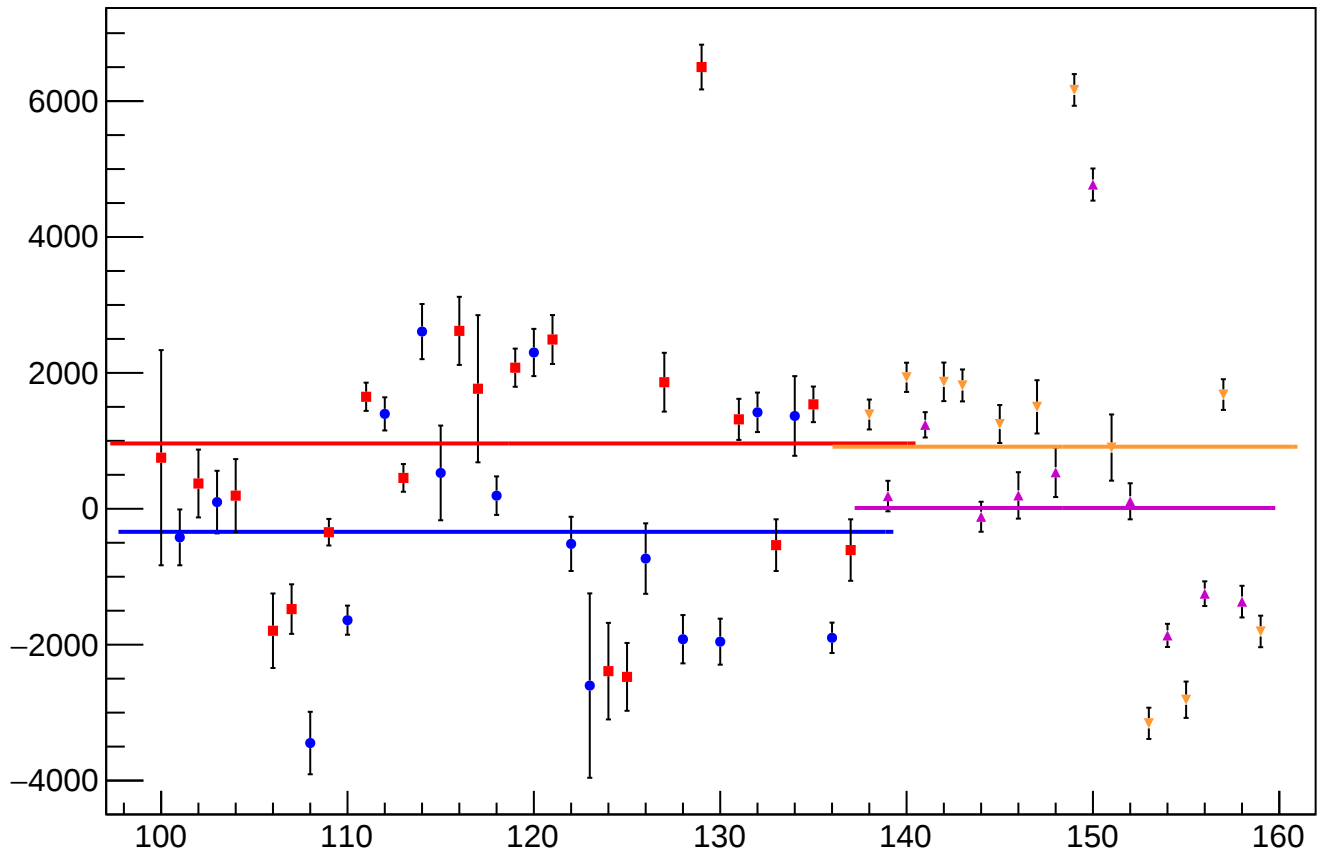
Right Out: 184.990+/-0.052 χ^2/NDF : 1320825.4/19

Left In: 197.449+/-0.052 χ^2/NDF : 723593.6/9

211.721+/-0.039 χ^2/NDF : 1613206.3/28

191.311+/-0.037 χ^2/NDF : 2073157.7/29

asym_bpm0l10WS_mean vs Slug



Right In: -338.966 ± 83.123 χ^2/NDF : 389.5/16

Left Out: 913.828 ± 73.388 χ^2/NDF : 1219.7/11

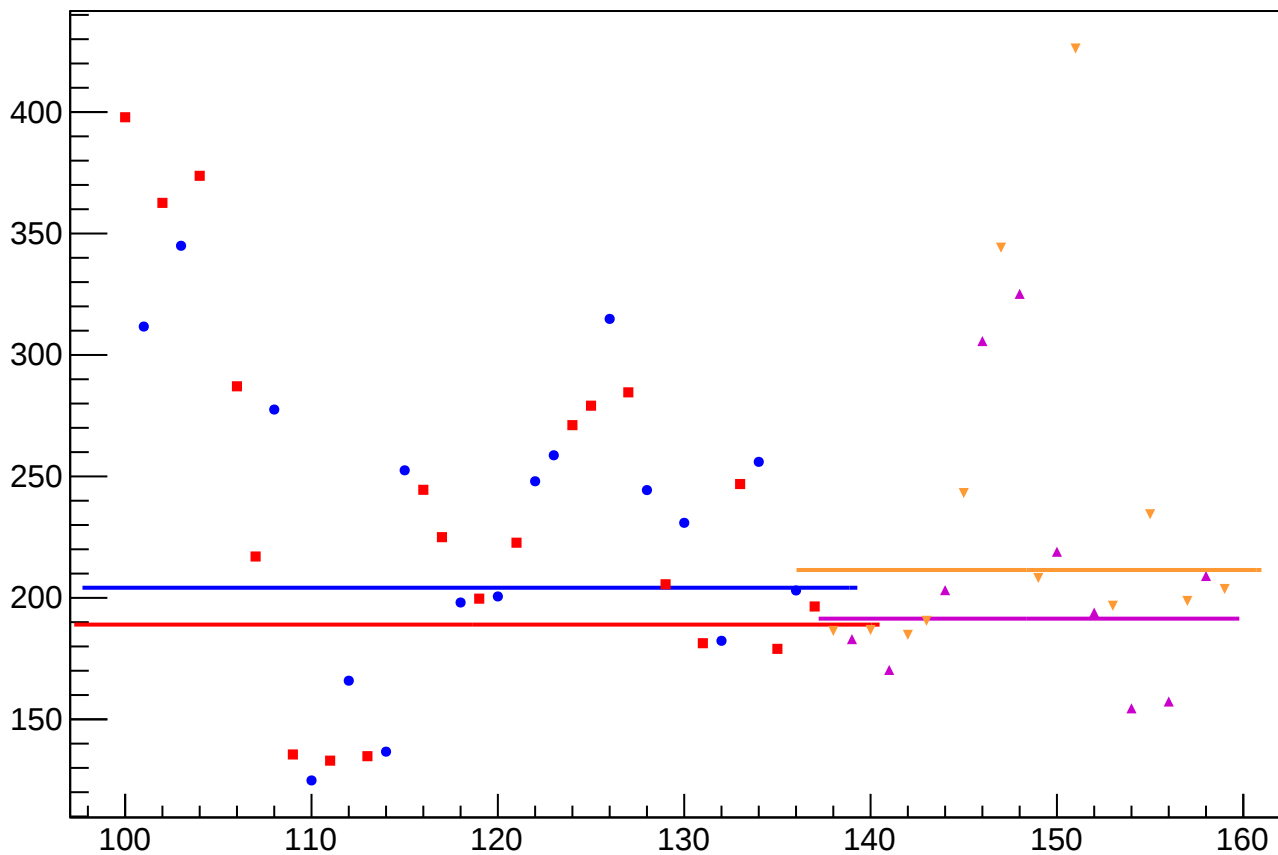
Right Out: 961.556 ± 75.564 χ^2/NDF : 570.9/19

Left In: 11.995 ± 70.628 χ^2/NDF : 656.5/9

365.053 ± 55.014 χ^2/NDF : 1736.8/28

454.753 ± 51.598 χ^2/NDF : 1311.7/29

asym_bpm0l10WS_rms vs Slug



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 211.482+/-0.052 χ^2/NDF : 761081.5/11

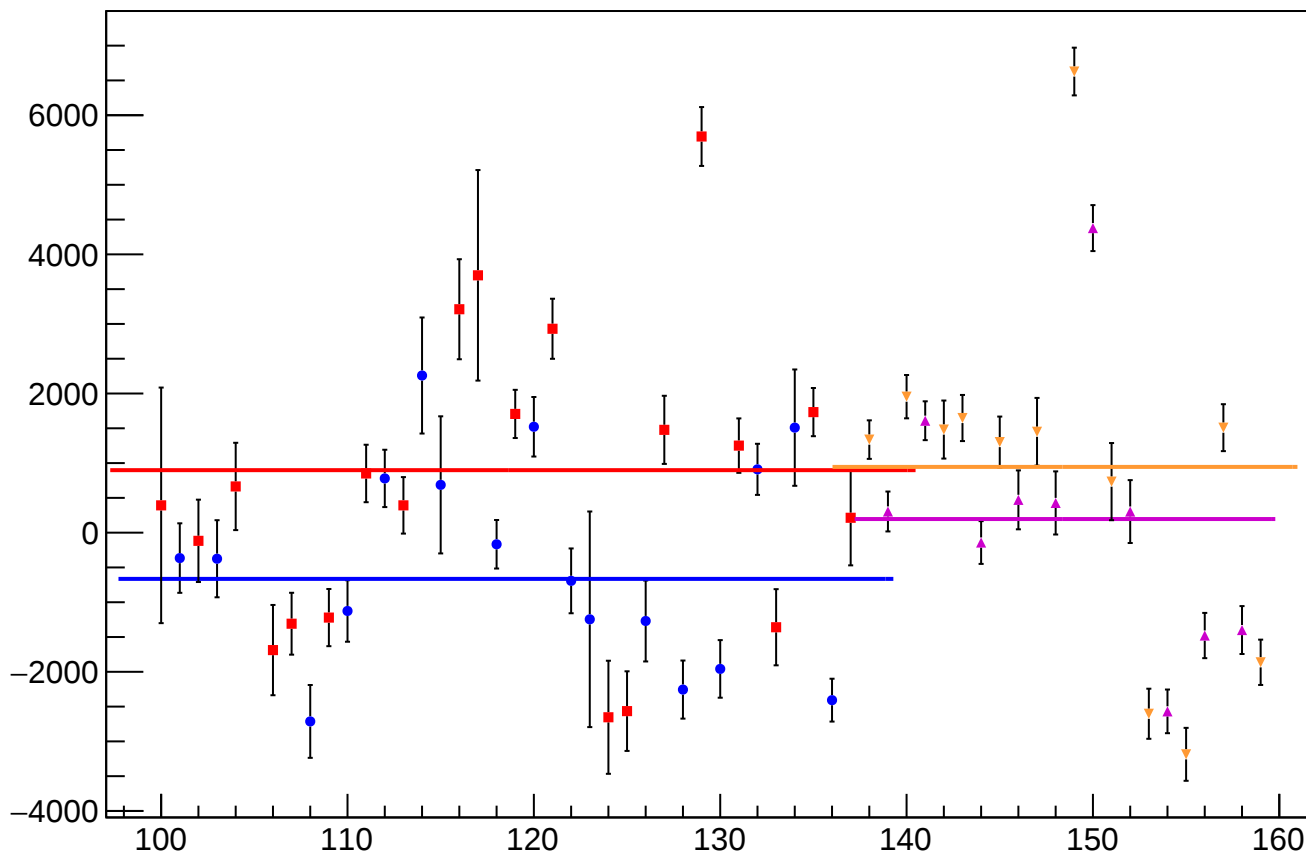
Right Out: 188.997+/-0.053 χ^2/NDF : 1317112.1/19

Left In: 191.446+/-0.050 χ^2/NDF : 730393.7/9

208.281+/-0.039 χ^2/NDF : 1717204.8/28

190.304+/-0.036 χ^2/NDF : 2048627.1/29

asym_bpm0r03WS_mean vs Slug



Right In: -664.383 ± 113.949 χ^2/NDF : 154.3/16

Left Out: 945.141 ± 102.894 χ^2/NDF : 587.7/11

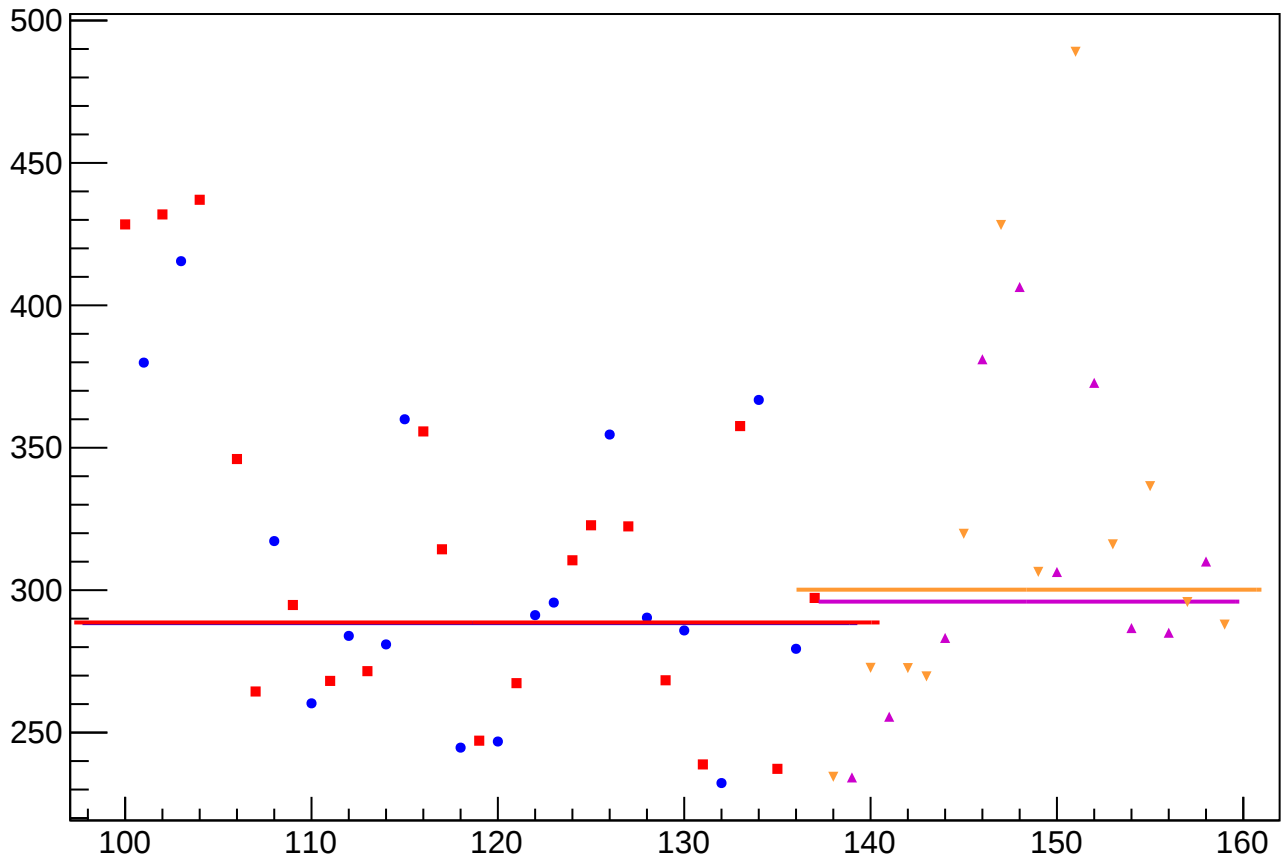
Right Out: 898.290 ± 110.578 χ^2/NDF : 323.5/19

Left In: 195.784 ± 106.534 χ^2/NDF : 313.4/9

222.215 ± 76.367 χ^2/NDF : 851.9/28

533.955 ± 76.721 χ^2/NDF : 657.8/29

asym_bpm0r03WS_rms vs Slug



Right In: 288.428 $\pm$ 0.081 χ^2 /NDF: 339820.0/16

Left Out: 300.172 $\pm$ 0.073 χ^2 /NDF:555851.6/11

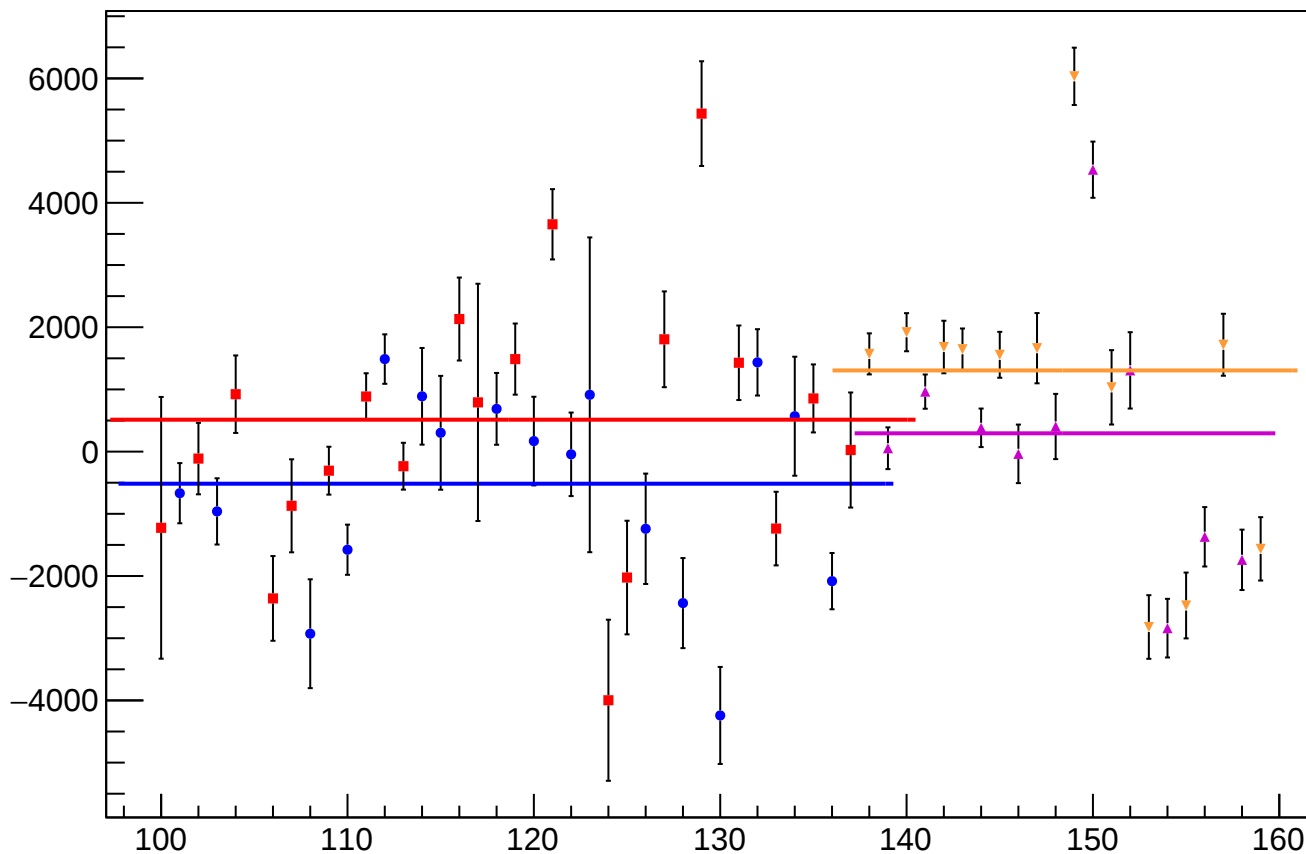
Right Out: 288.660 $\pm$ 0.078 χ^2 /NDF: 455989.7/19

Left In: 295.978 $\pm$ 0.075 χ^2 /NDF:404425.0/9

294.897 $\pm$ 0.054 χ^2 /NDF: 907374.2/28

292.455 $\pm$ 0.054 χ^2 /NDF: 864957.7/29

asym_bpm0r05WS_mean vs Slug



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 1305.122 ± 121.538 $\chi^2/\text{NDF}: 261.4/11$

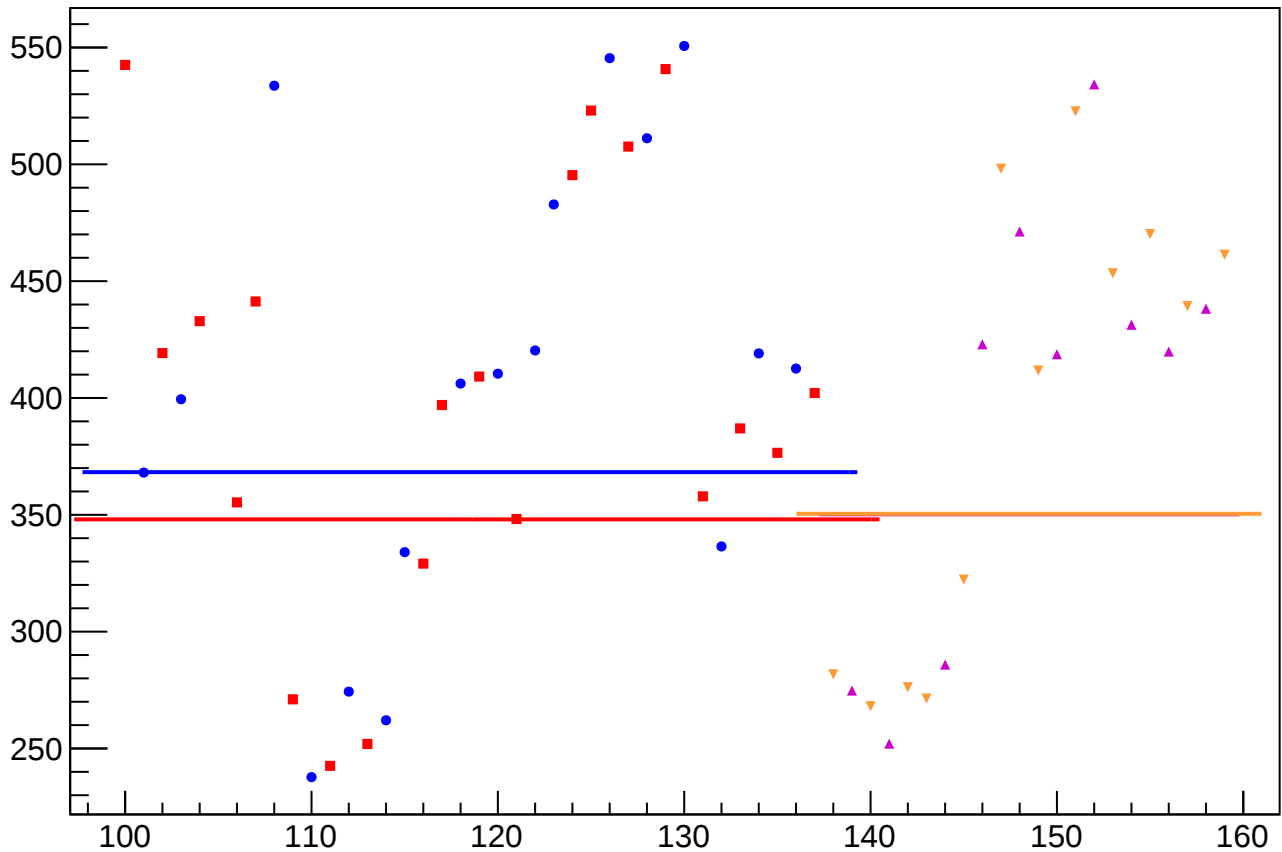
Right Out: 513.264 ± 135.456 $\chi^2/\text{NDF}: 141.3/19$

Left In: 294.165 ± 127.667 $\chi^2/\text{NDF}: 171.7/9$

567.688 ± 93.753 $\chi^2/\text{NDF}: 460.3/28$

397.235 ± 92.906 $\chi^2/\text{NDF}: 314.4/29$

asym_bpm0r05WS_rms vs Slug



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 350.433+/-0.086 χ^2/NDF :1096881.1/11

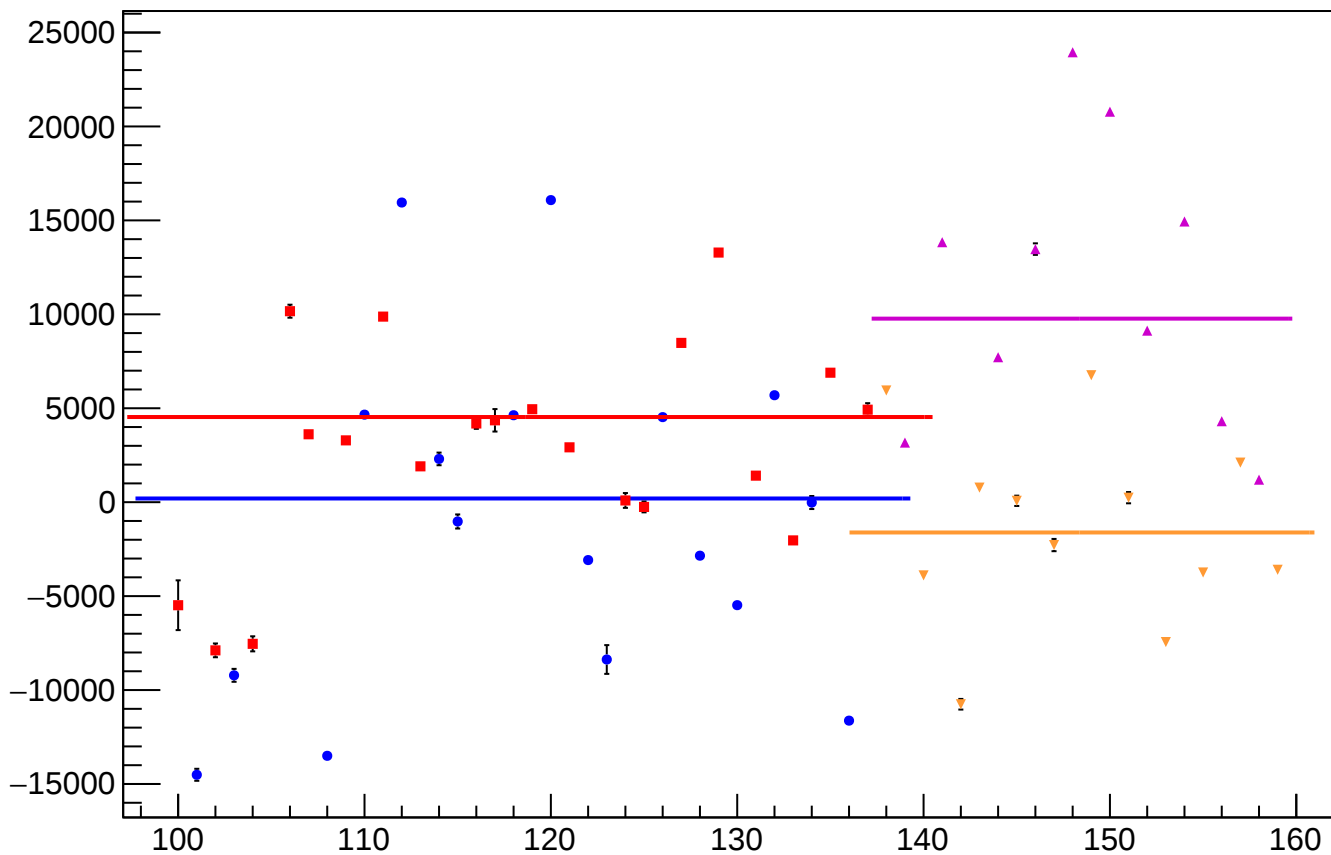
Right Out: 348.050+/-0.096 χ^2/NDF : 823186.4/19

Left In: 350.223+/-0.090 χ^2/NDF :989467.1/9

357.654+/-0.066 χ^2/NDF : 1884431.0/28

349.201+/-0.066 χ^2/NDF : 1812925.9/29

asym_bpm0i02WS_mean vs Slug



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1612.428 ± 57.835 $\chi^2/\text{NDF}: 6661.1/11$

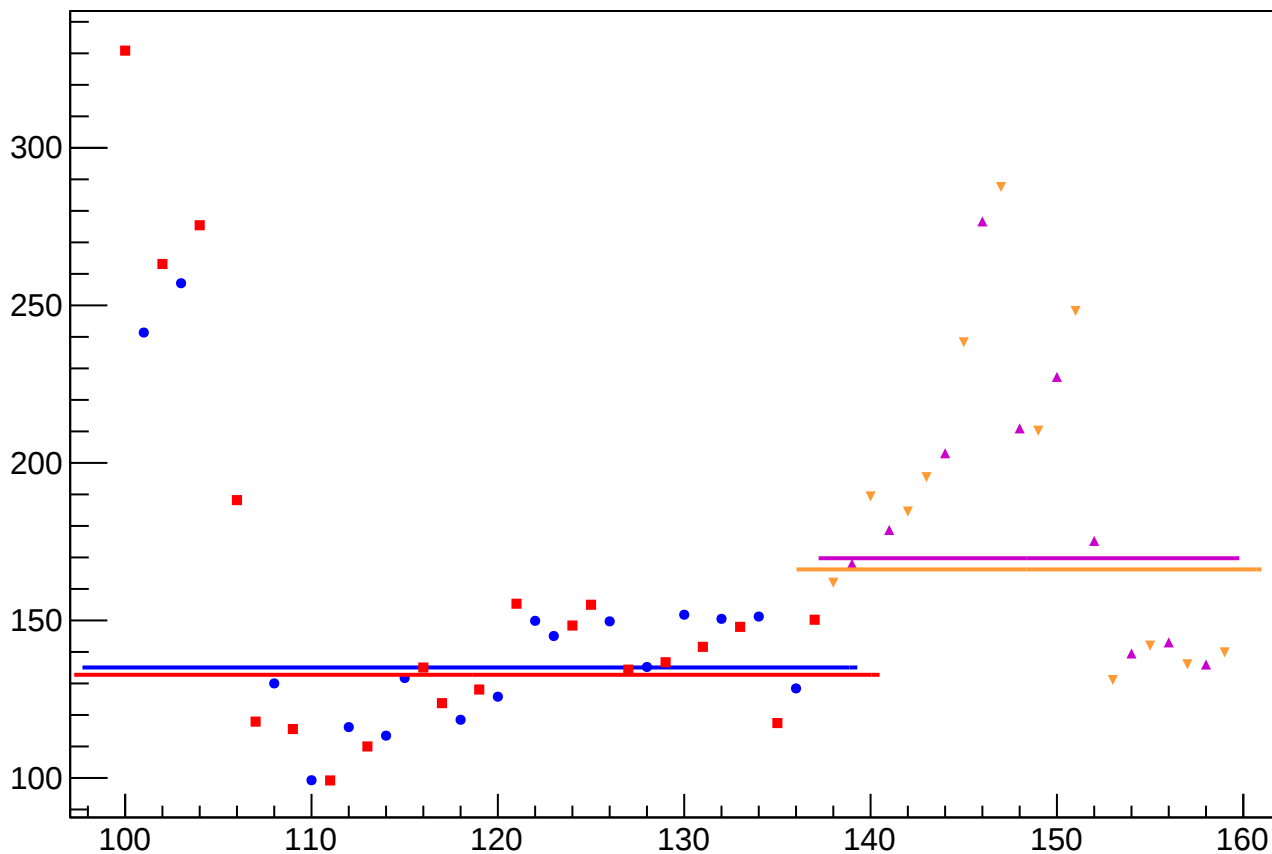
Right Out: 4532.856 ± 52.261 $\chi^2/\text{NDF}: 7477.3/19$

Left In: 9770.111 ± 62.433 $\chi^2/\text{NDF}: 12539.8/9$

-658.967 ± 39.779 $\chi^2/\text{NDF}: 37835.2/28$

6690.616 ± 40.074 $\chi^2/\text{NDF}: 24154.8/29$

asym_bpm0i02WS_rms vs Slug



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 166.201+/-0.041 χ^2/NDF : 988562.4/11

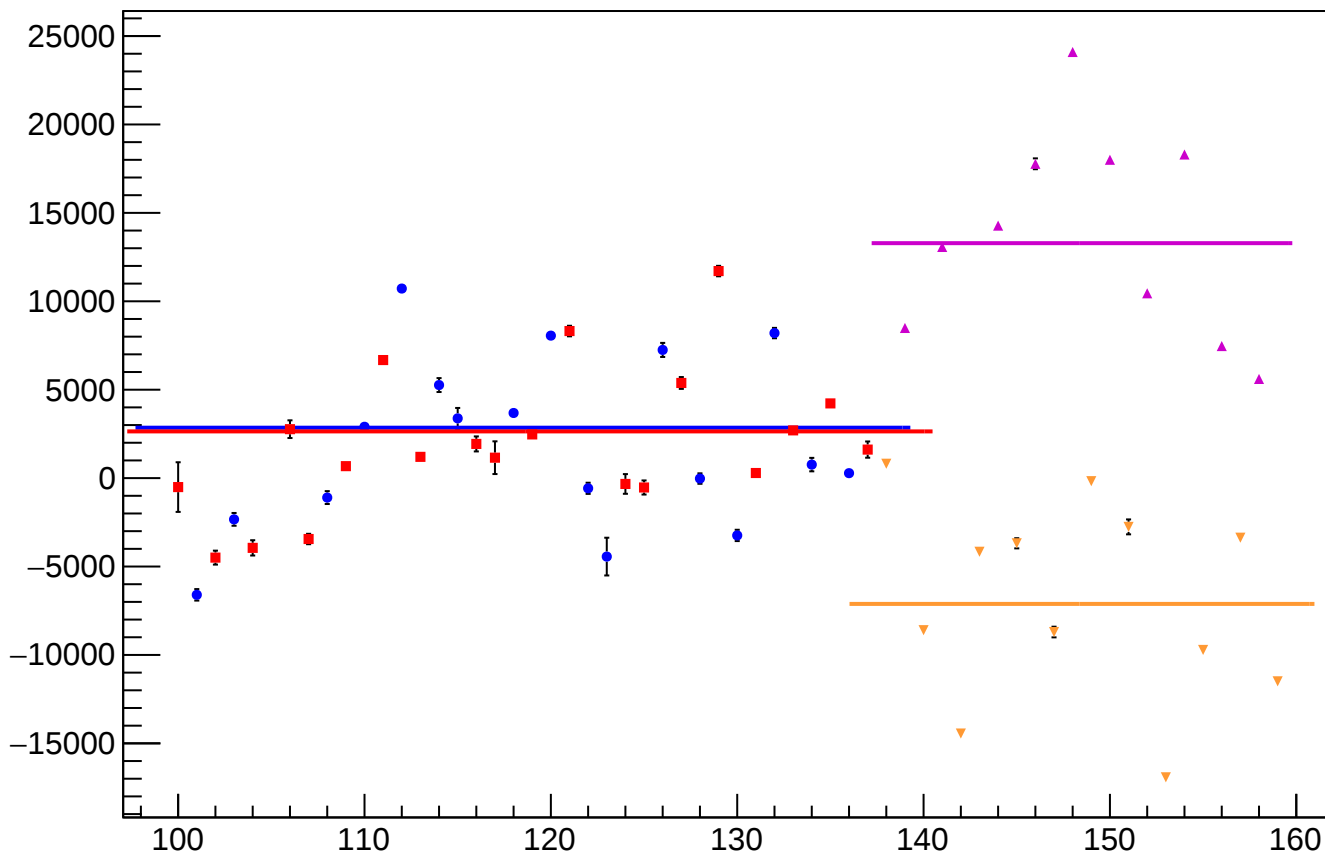
Right Out: 132.747+/-0.037 χ^2/NDF : 831647.2/19

Left In: 169.747+/-0.044 χ^2/NDF : 691197.7/9

149.798+/-0.028 χ^2/NDF : 1952583.7/28

147.991+/-0.028 χ^2/NDF : 1935870.6/29

asym_bpm0i02aWS_mean vs Slug



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7114.118+/-67.305 χ^2/NDF : 7130.1/11

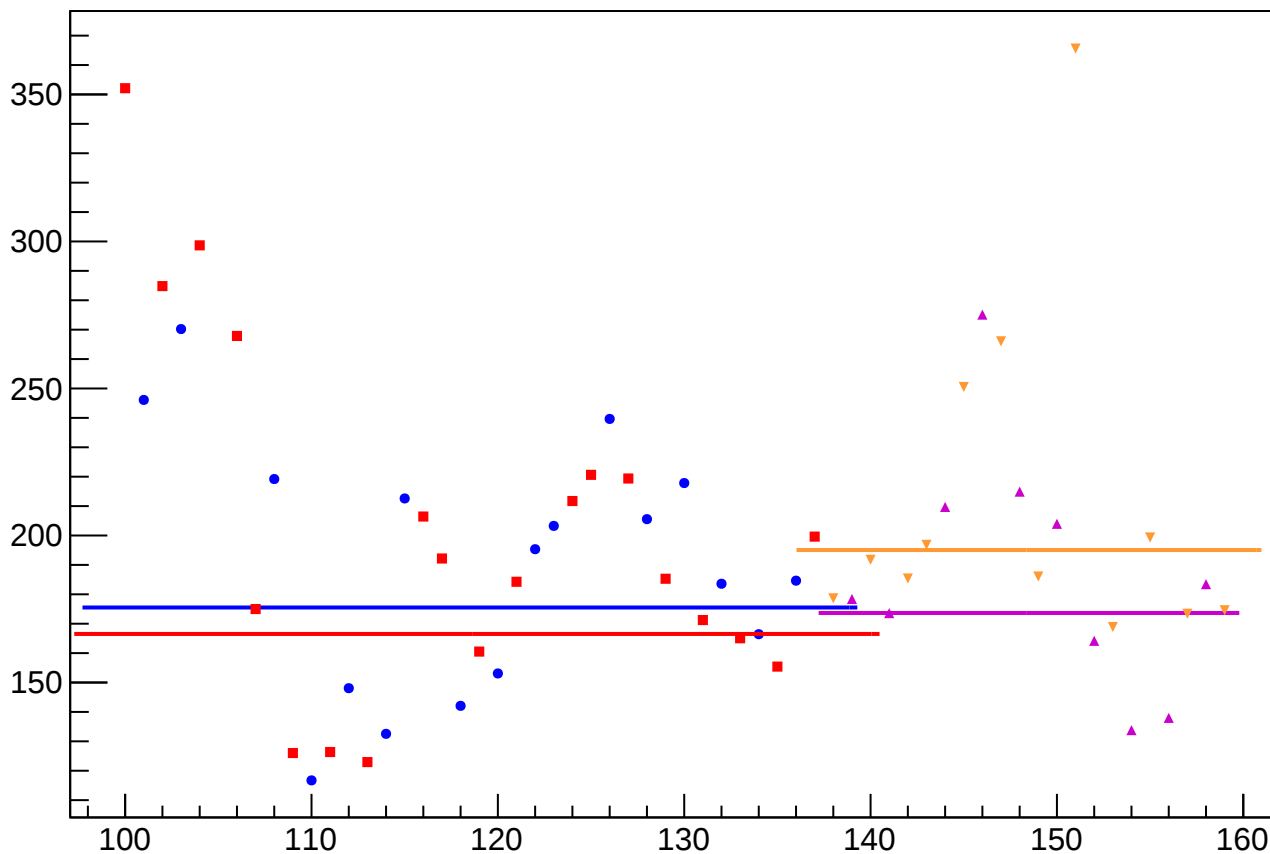
Right Out: 2641.642+/-65.566 χ^2/NDF : 3178.3/19

Left In: 13287.354+/-63.899 χ^2/NDF : 7196.0/9

-2380.128+/-48.765 χ^2/NDF : 21722.8/28

8101.525+/-45.761 χ^2/NDF : 23895.2/29

asym_bpm0i02aWS_rms vs Slug



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 195.058 $\pm$ 0.048 χ^2 /NDF: 611146.0/11

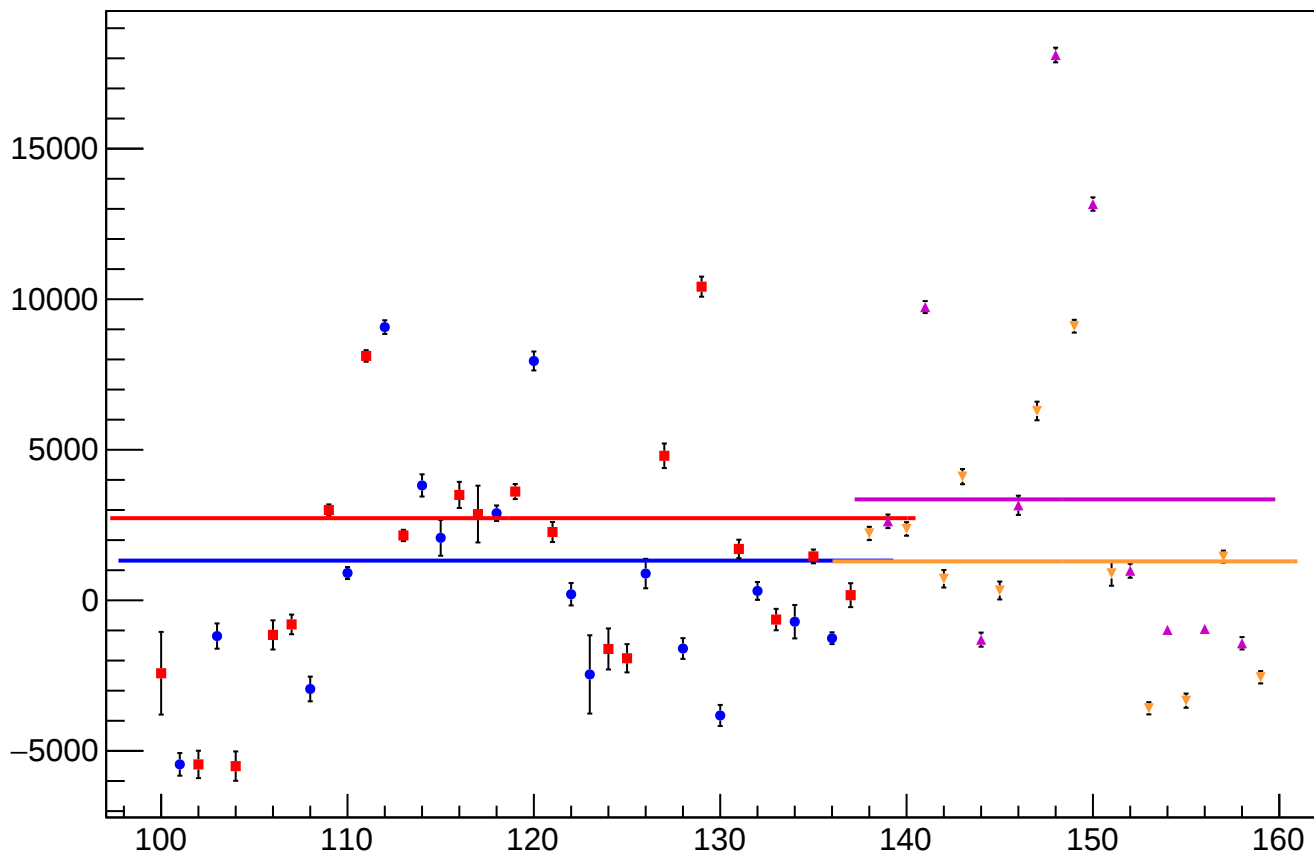
Right Out: 166.522 $\pm$ 0.046 χ^2 /NDF: 931079.9/19

Left In: 173.648 $\pm$ 0.045 χ^2 /NDF: 619331.0/9

185.774 $\pm$ 0.034 χ^2 /NDF: 1380896.5/28

170.177 $\pm$ 0.032 χ^2 /NDF: 1562525.3/29

asym_bpm0i05WS_mean vs Slug



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1293.586+/-69.265 χ^2/NDF : 3098.9/11

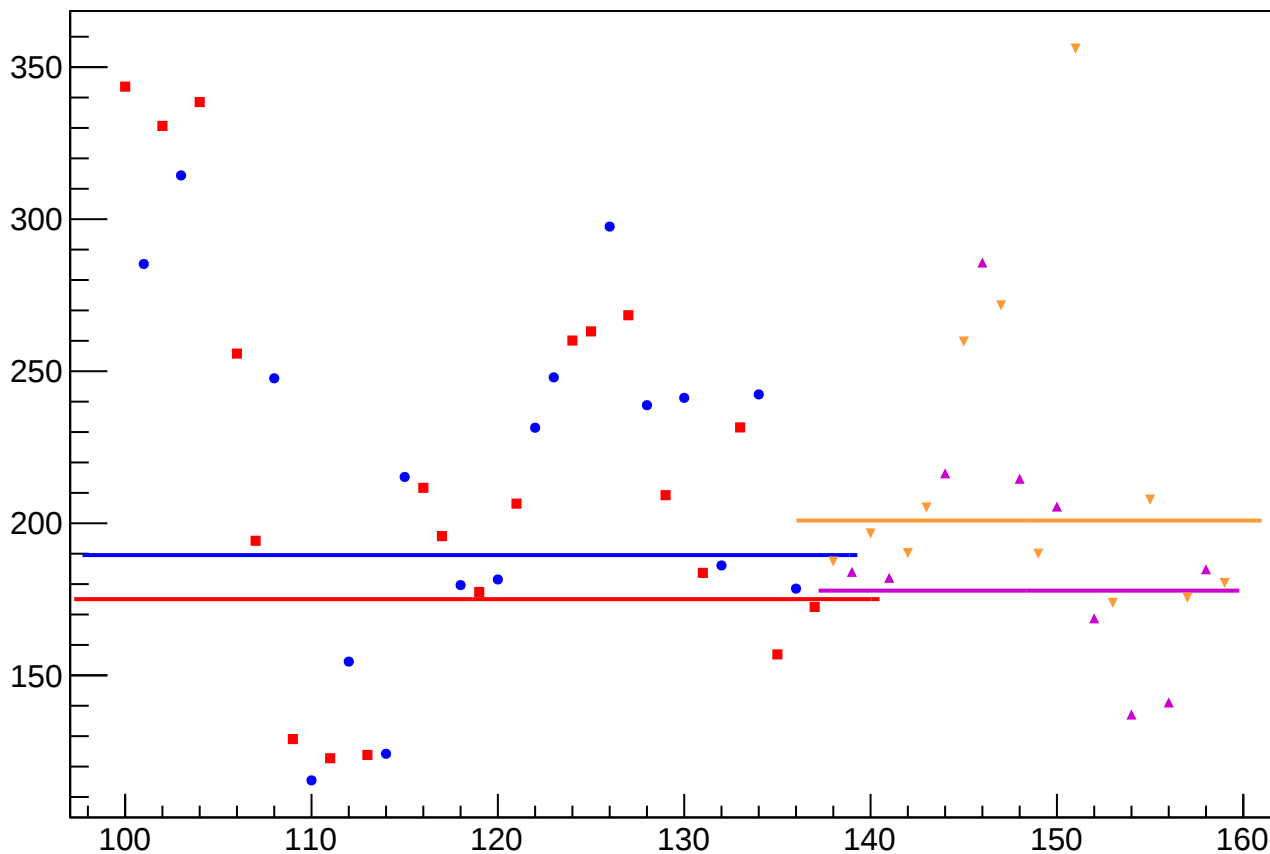
Right Out: 2728.550+/-69.837 χ^2/NDF : 2495.9/19

Left In: 3352.916+/-65.484 χ^2/NDF : 9205.6/9

1304.933+/-51.539 χ^2/NDF : 5766.0/28

3060.797+/-47.769 χ^2/NDF : 11744.1/29

asym_bpm0i05WS_rms vs Slug



Right In: 189.544 ± 0.055 χ^2/NDF : 980744.6/16

Left Out: 200.895 ± 0.049 χ^2/NDF : 572892.4/11

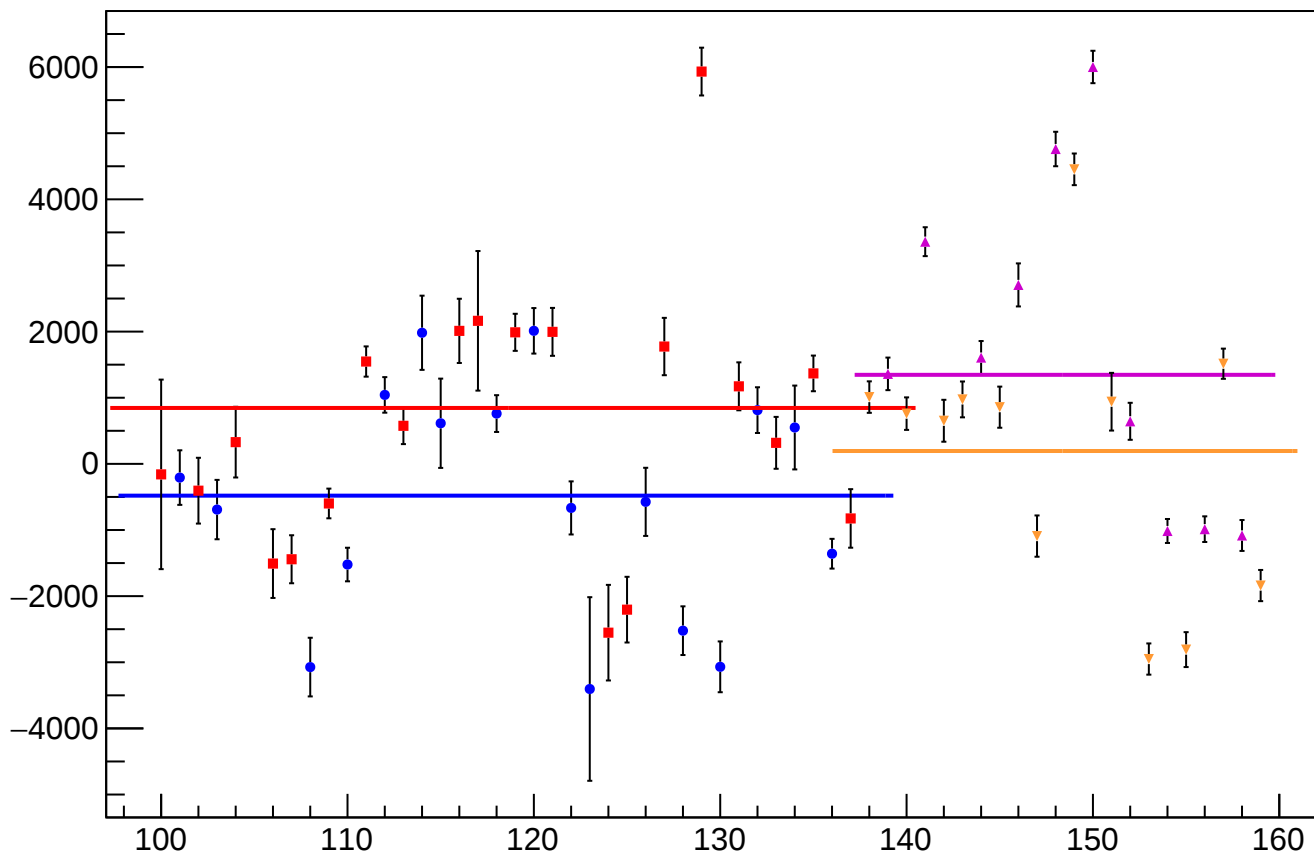
Right Out: 175.058 ± 0.049 χ^2/NDF : 1298079.7/19

Left In: 177.852 ± 0.046 χ^2/NDF : 613036.1/9

195.829 ± 0.036 χ^2/NDF : 1577607.1/28

176.545 ± 0.034 χ^2/NDF : 1912819.1/29

asym_bpm0i07WS_mean vs Slug



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 194.529 ± 76.567 χ^2/NDF : 783.6/11

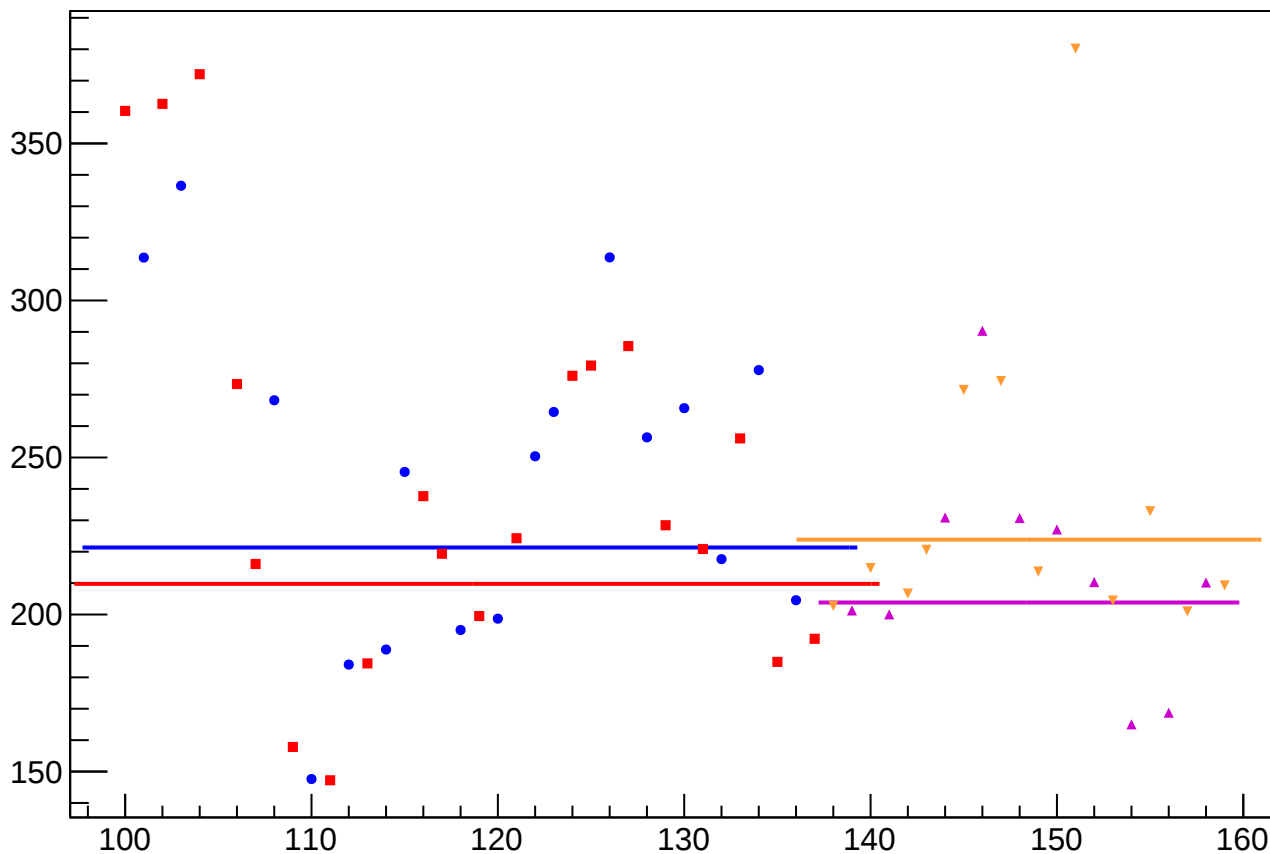
Right Out: 845.444 ± 81.995 χ^2/NDF : 436.9/19

Left In: 1346.330 ± 74.059 χ^2/NDF : 1065.0/9

-93.950 ± 57.943 χ^2/NDF : 1107.5/28

1121.291 ± 54.960 χ^2/NDF : 1522.4/29

asym_bpm0i07WS_rms vs Slug



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 223.847 $\pm$ 0.054 χ^2 /NDF: 427886.1/11

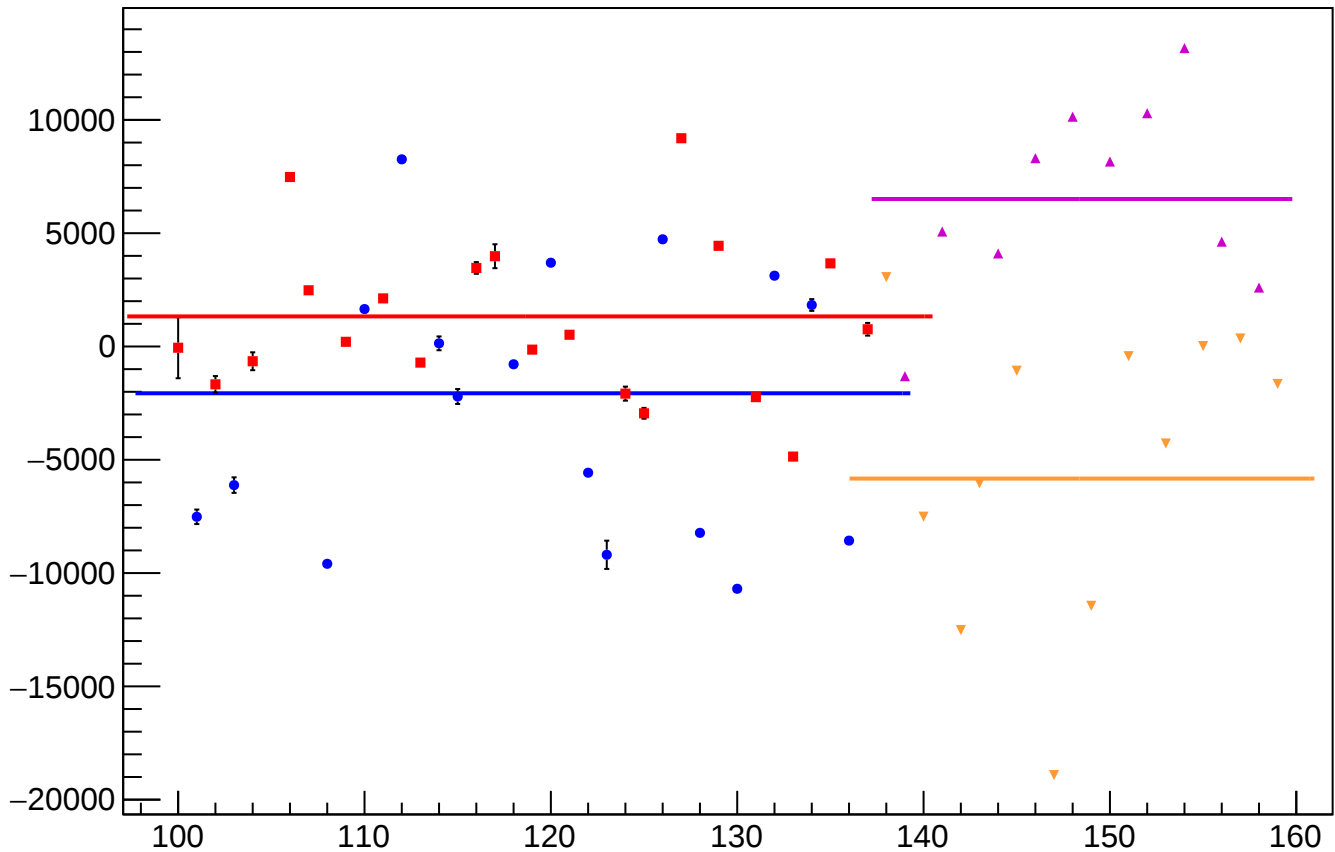
Right Out: 209.775 $\pm$ 0.058 χ^2 /NDF: 884083.7/19

Left In: 203.829 $\pm$ 0.052 χ^2 /NDF: 364490.9/9

222.777 $\pm$ 0.041 χ^2 /NDF: 1074489.0/28

206.500 $\pm$ 0.039 χ^2 /NDF: 1254366.6/29

asym_bpm1i02WS_mean vs Slug



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5829.206 ± 40.002 $\chi^2/\text{NDF}: 26936.4/11$

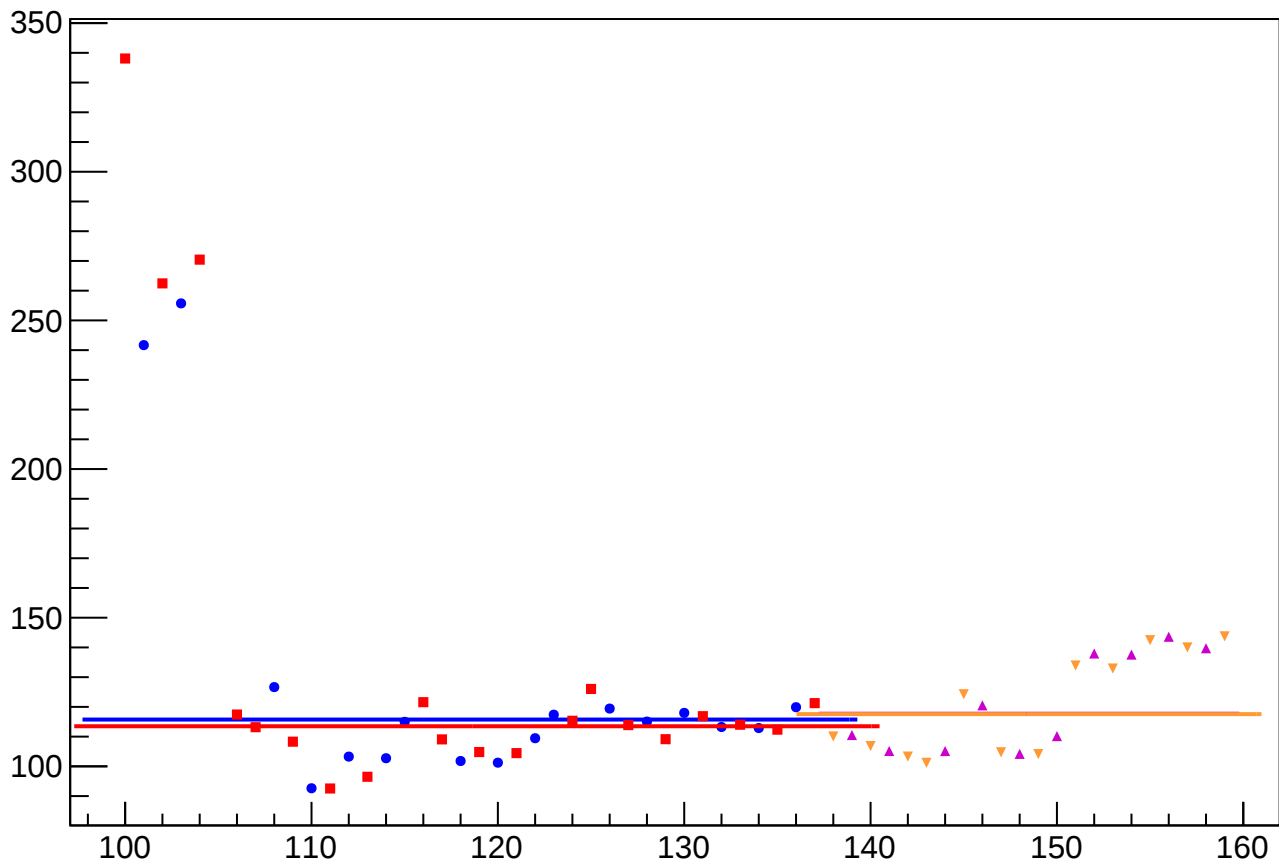
Right Out: 1327.819 ± 44.838 $\chi^2/\text{NDF}: 5919.9/19$

Left In: 6509.028 ± 41.987 $\chi^2/\text{NDF}: 8507.5/9$

-4260.514 ± 30.550 $\chi^2/\text{NDF}: 47159.7/28$

4088.368 ± 30.648 $\chi^2/\text{NDF}: 21541.6/29$

asym_bpm1i02WS_rms vs Slug



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 117.566+/-0.028 χ^2/NDF : 312345.8/11

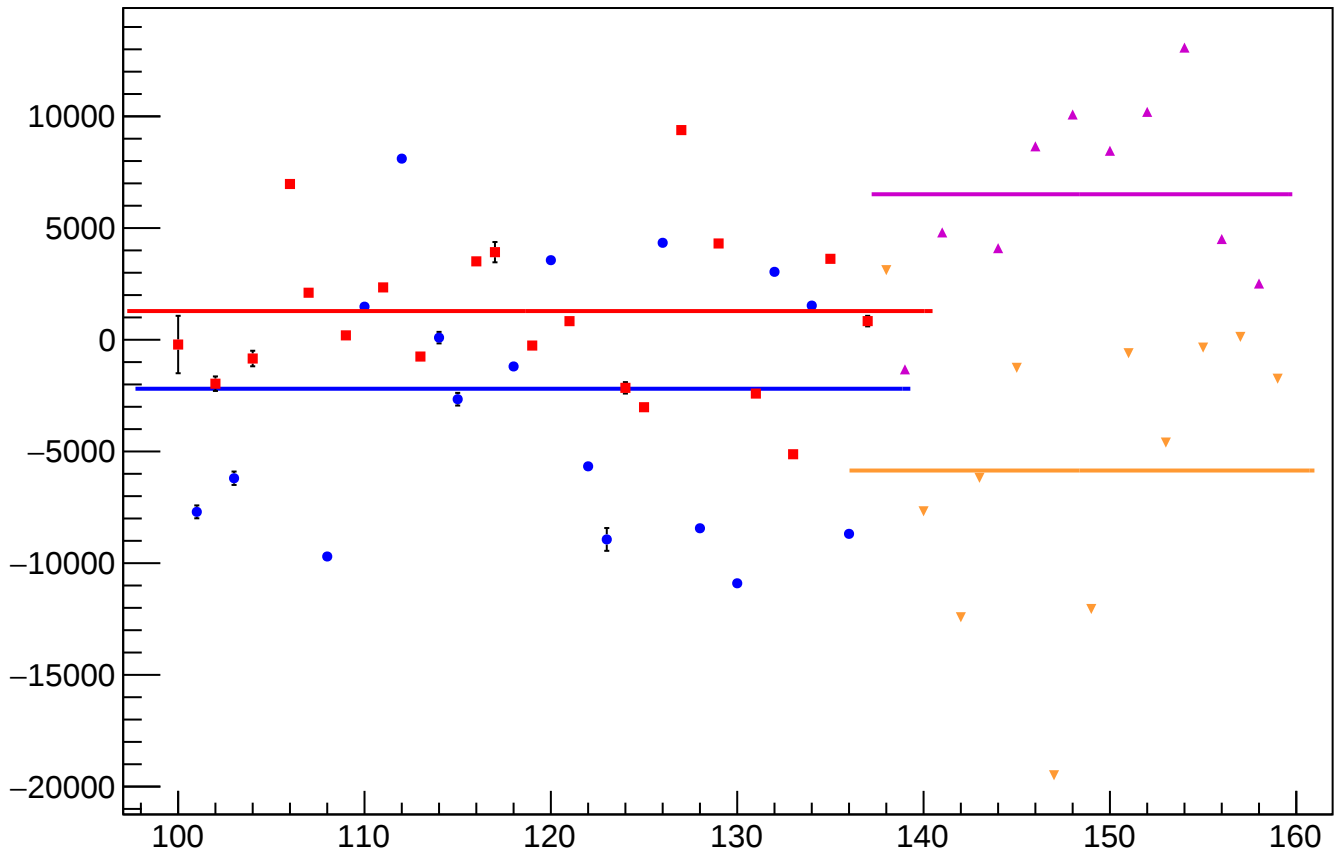
Right Out: 113.487+/-0.032 χ^2/NDF : 796781.7/19

Left In: 117.699+/-0.030 χ^2/NDF : 248602.3/9

116.805+/-0.022 χ^2/NDF : 1058098.8/28

115.731+/-0.022 χ^2/NDF : 1054788.4/29

asym_bpm1i04WS_mean vs Slug



Right In: -2192.327 ± 39.944 χ^2/NDF : 22813.5/16

Left Out: -5852.990 ± 36.232 χ^2/NDF : 32683.1/11

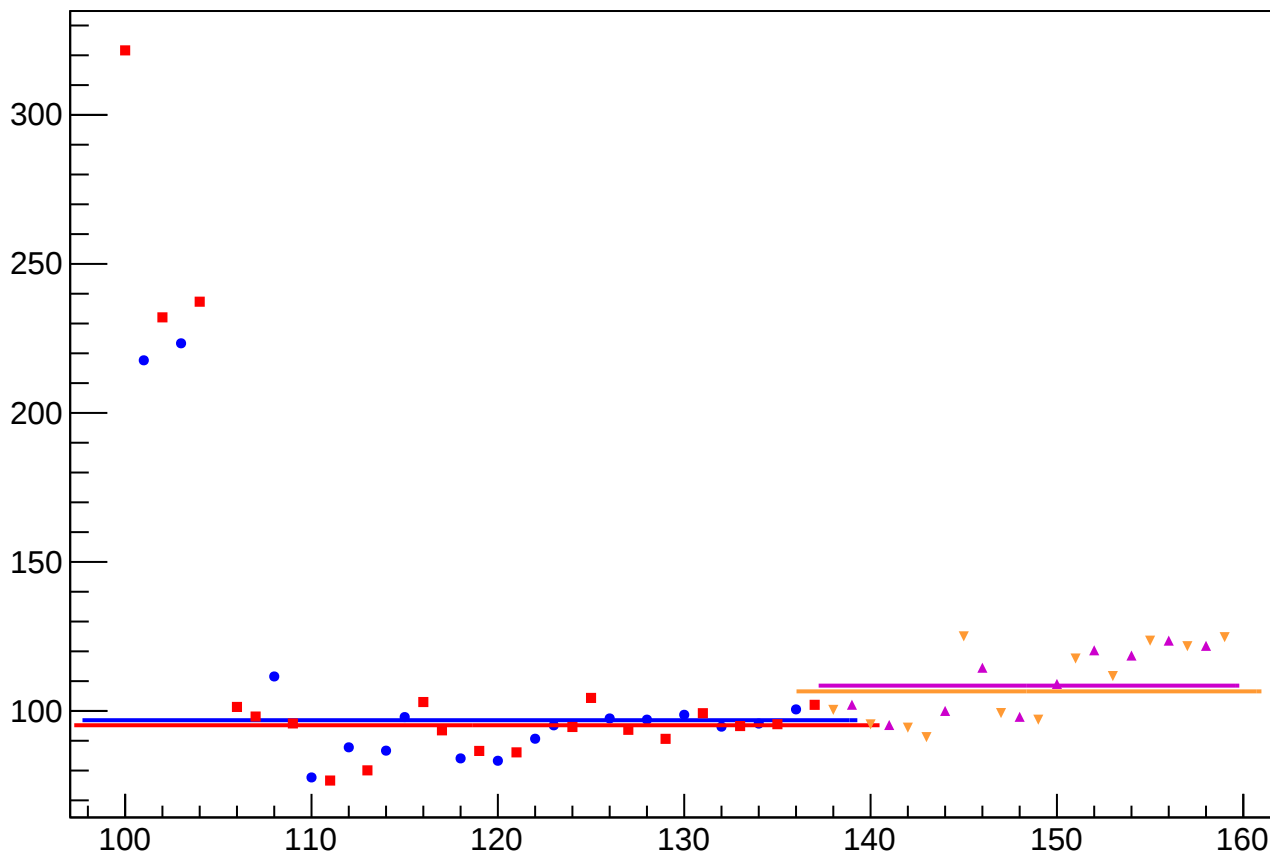
Right Out: 1284.692 ± 37.915 χ^2/NDF : 8584.4/19

Left In: 6512.944 ± 38.620 χ^2/NDF : 10546.2/9

-4200.611 ± 26.836 χ^2/NDF : 60104.3/28

3850.702 ± 27.056 χ^2/NDF : 28462.9/29

asym_bpm1i04WS_rms vs Slug



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16

Left Out: 106.571+/-0.026 χ^2/NDF : 237388.9/11

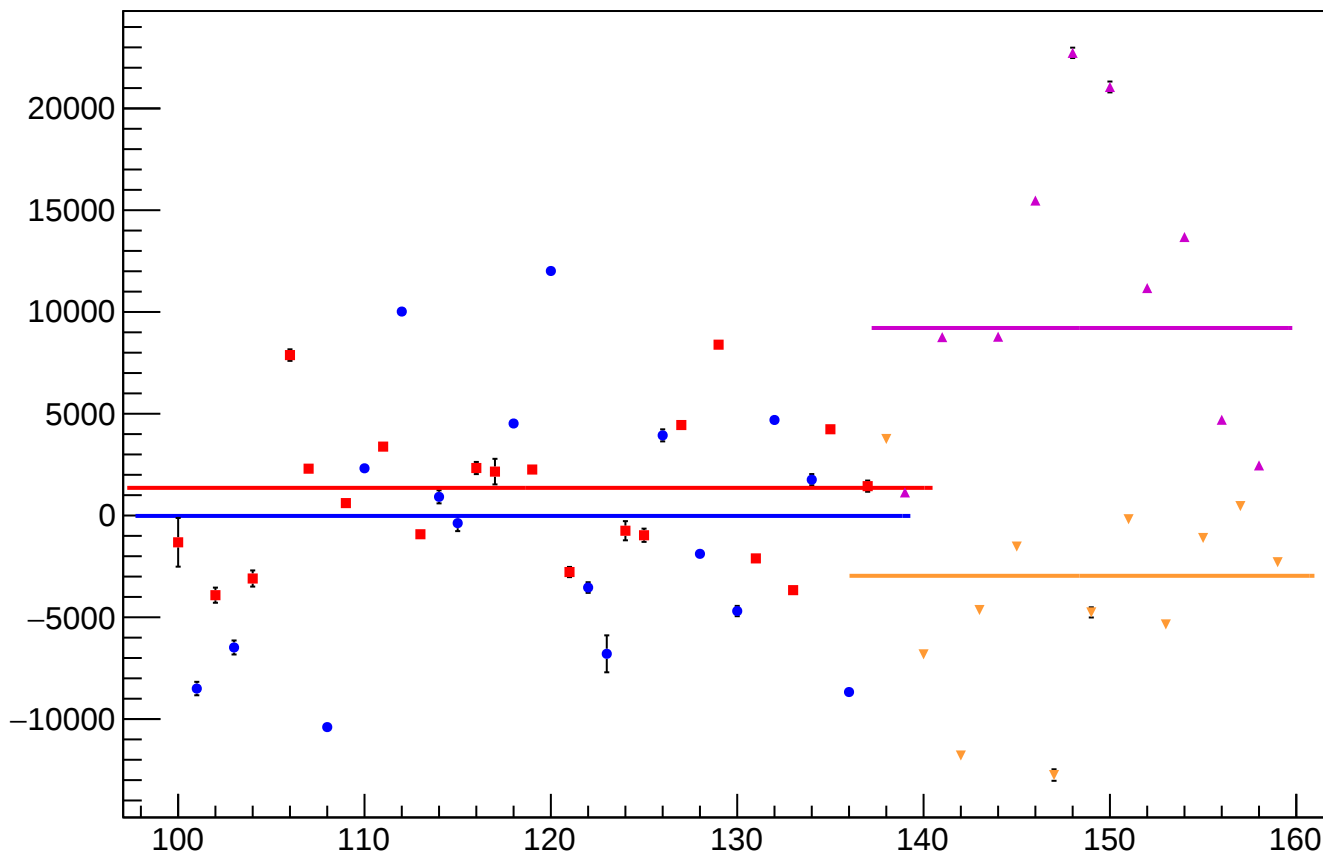
Right Out: 95.201+/-0.027 χ^2/NDF : 859838.2/19

Left In: 108.497+/-0.027 χ^2/NDF : 141305.3/9

102.203+/-0.019 χ^2/NDF : 1119015.2/28

101.727+/-0.019 χ^2/NDF : 1121837.7/29

asym_bpm1i06WS_mean vs Slug



Right In: -19.990 ± 54.643 χ^2/NDF : 16361.0/16

Left Out: -2962.159 ± 52.776 χ^2/NDF : 6189.9/11

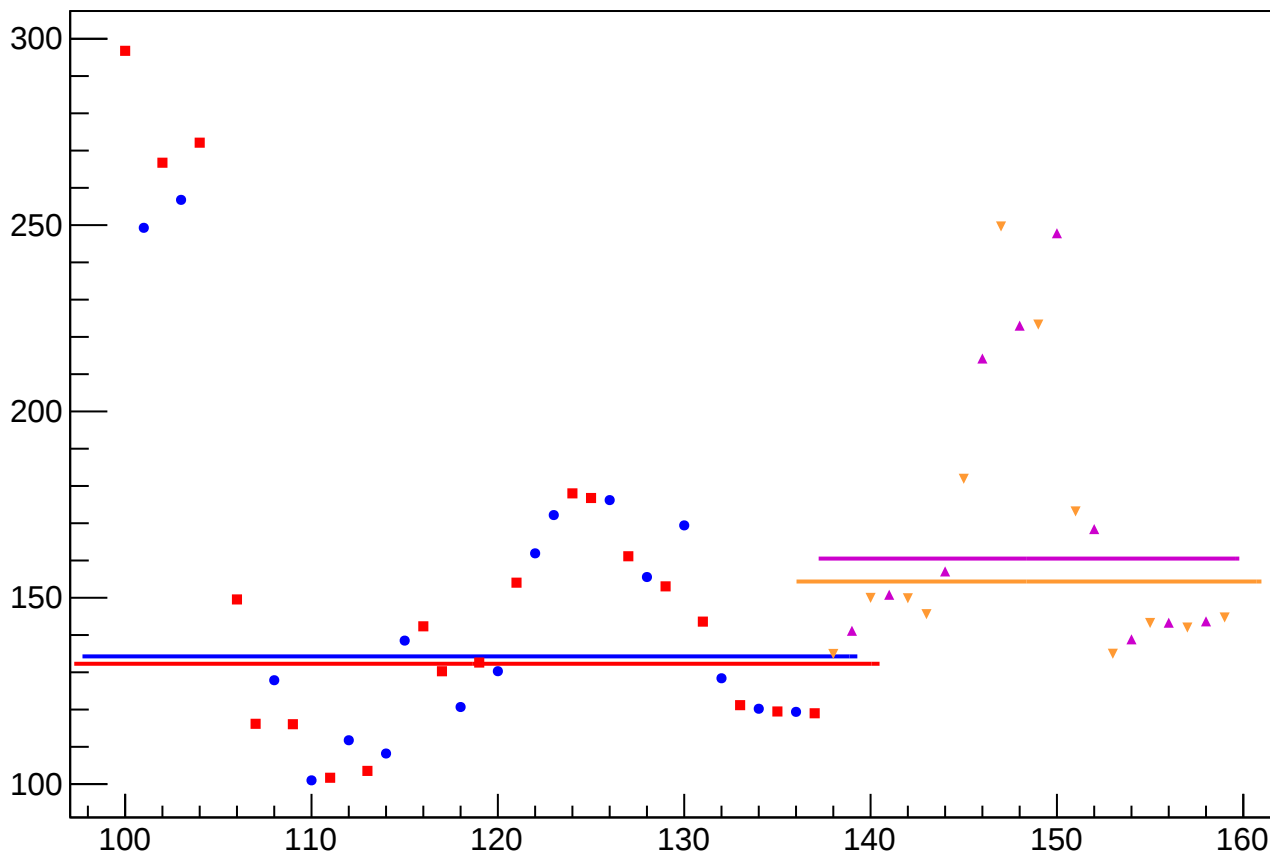
Right Out: 1359.001 ± 52.186 χ^2/NDF : 3838.8/19

Left In: 9213.302 ± 57.945 χ^2/NDF : 11161.2/9

-1542.197 ± 37.961 χ^2/NDF : 24050.8/28

4876.572 ± 38.778 χ^2/NDF : 25144.8/29

asym_bpm1i06WS_rms vs Slug



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 154.361 $\pm$ 0.037 χ^2 /NDF: 529551.4/11

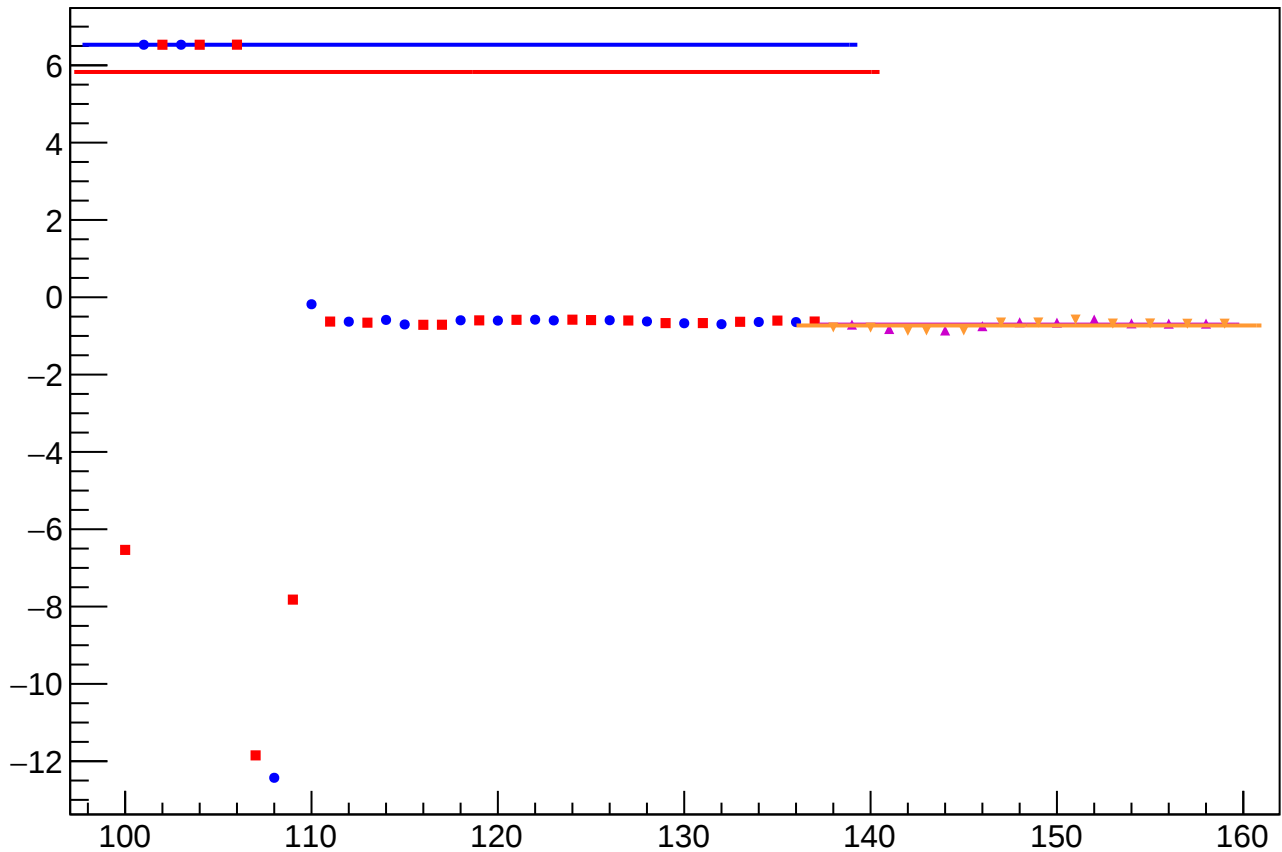
Right Out: 132.288 $\pm$ 0.037 χ^2 /NDF: 869913.4/19

Left In: 160.516 $\pm$ 0.041 χ^2 /NDF: 557425.8/9

144.664 $\pm$ 0.027 χ^2 /NDF: 1458118.0/28

144.930 $\pm$ 0.027 χ^2 /NDF: 1689399.9/29

yield_cav4bX_mean vs Slug



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 127906780672.7/16

Left Out: -0.729 $\pm$ 0.000 χ^2 /NDF: 72032866.2/11

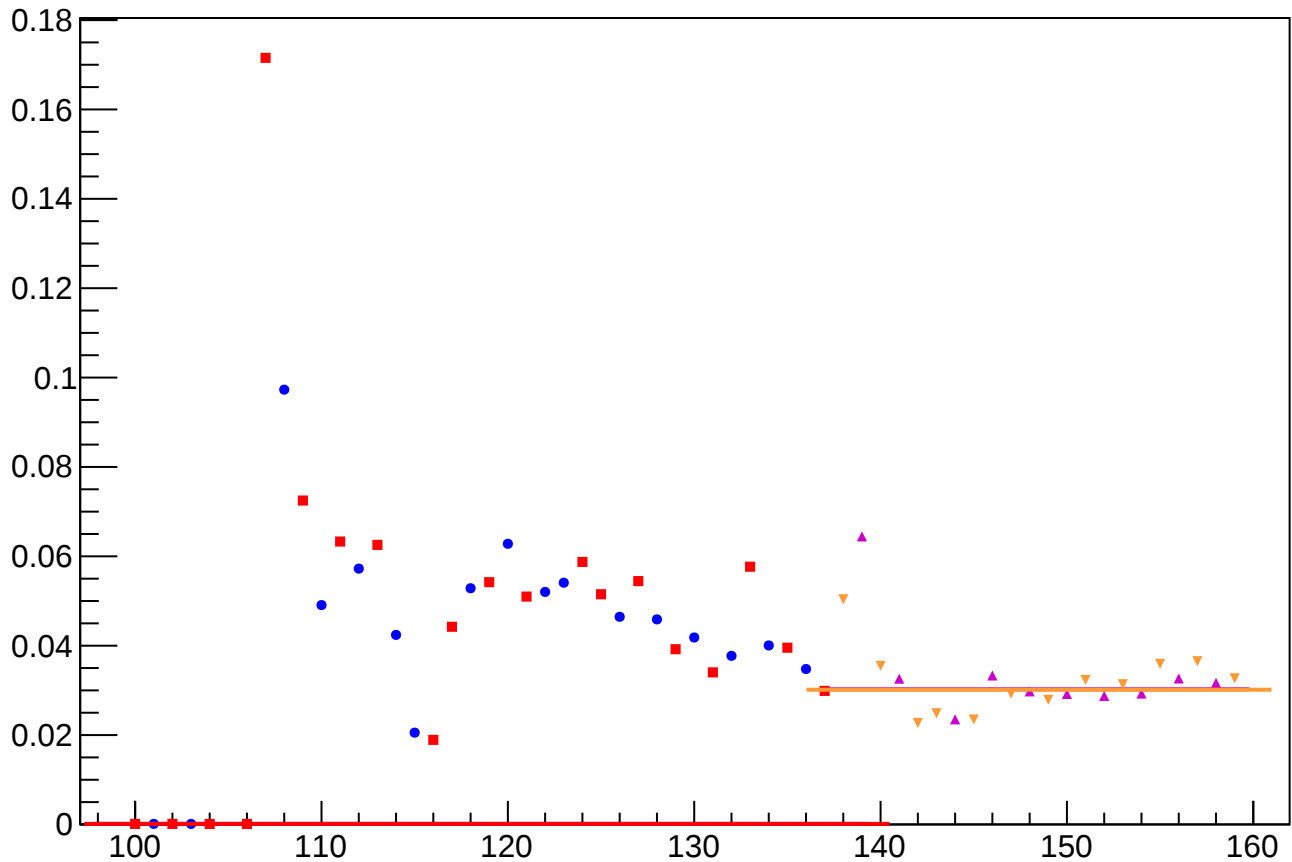
6.531 $\pm$ 0.000 χ^2 /NDF: 532316978951.3/28

Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755949520765363.8/19

5.827 $\pm$ 0.000 χ^2 /NDF: 756247472421449.5/29

Left In: -0.707 $\pm$ 0.000 χ^2 /NDF: 54599411.5/9

yield_cav4bX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 516121.5/11

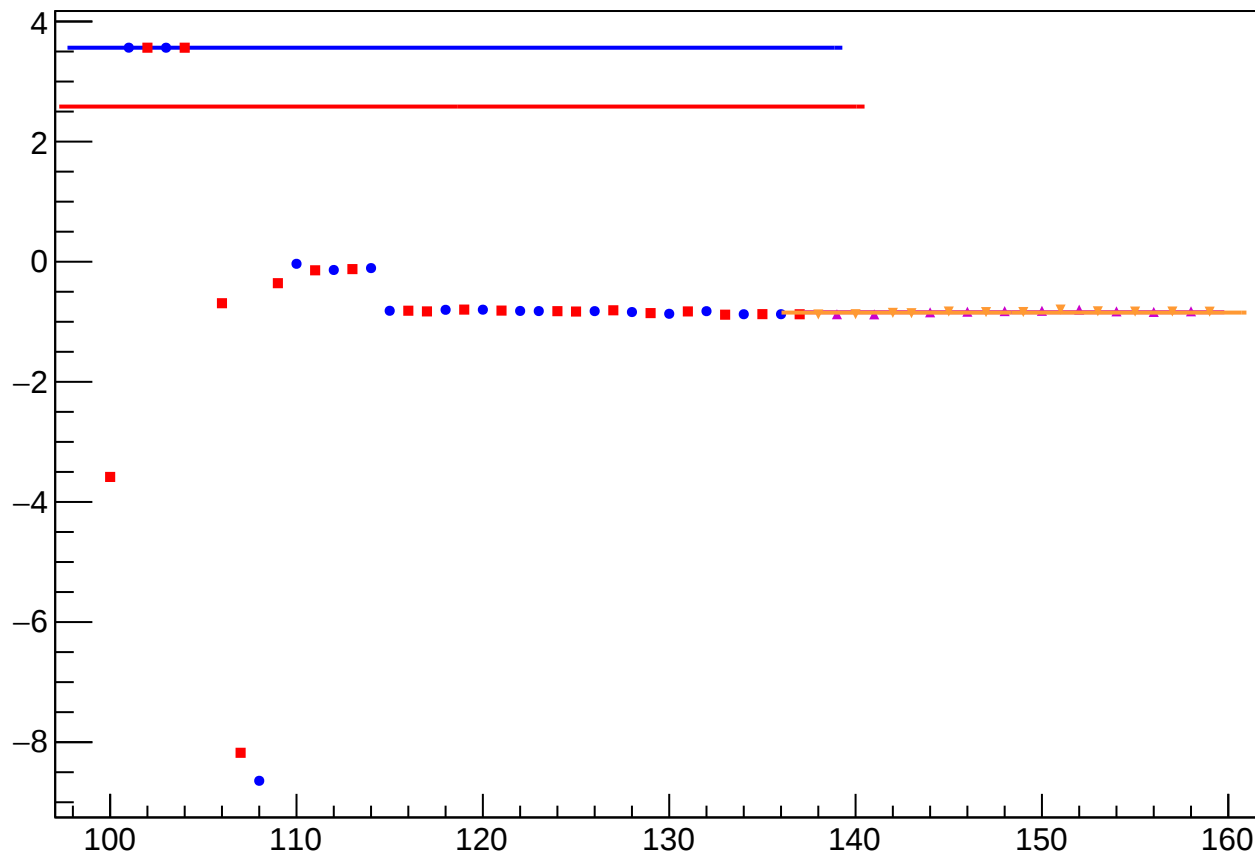
Right Out: 0.000+/-0.000 χ^2/NDF : 9453181.1/19

Left In: 0.030+/-0.000 χ^2/NDF : 506545.3/9

0.000+/-0.000 χ^2/NDF : 23374994.5/28

0.000+/-0.000 χ^2/NDF : 22628358.3/29

yield_cav4bY_mean vs Slug



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.847+/-0.000 χ^2/NDF : 37498978.9/11

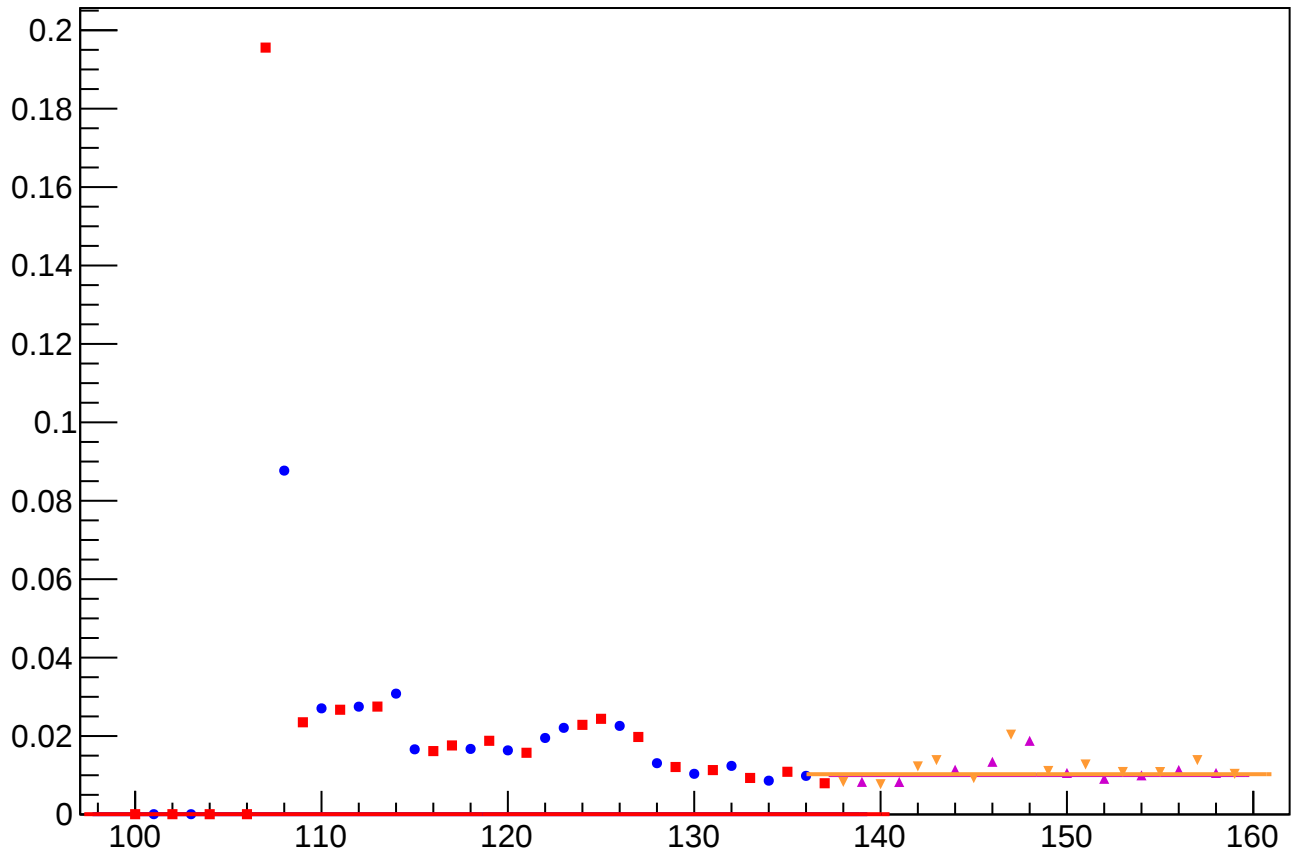
Right Out: 2.583+/-0.000 χ^2/NDF : 1253506756008351.0/19

Left In: -0.841+/-0.000 χ^2/NDF : 48000139.2/9

3.562+/-0.000 χ^2/NDF : 1713215327405.5/28

2.583+/-0.000 χ^2/NDF : 1254223991781038.2/2

yield_cav4bY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.010+/-0.000 χ^2/NDF : 803842.8/11

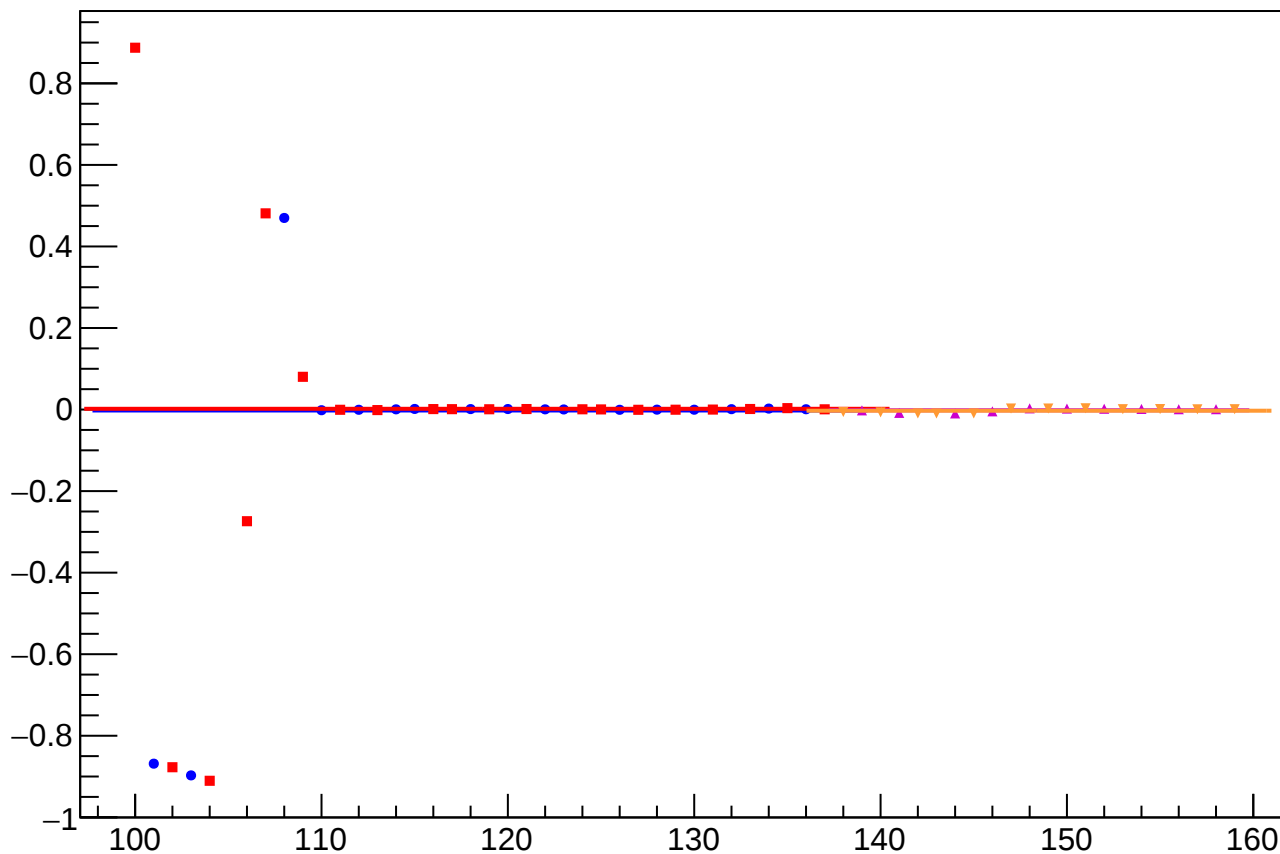
Right Out: 0.000+/-0.000 χ^2/NDF : 9955781.5/19

Left In: 0.010+/-0.000 χ^2/NDF : 553607.8/9

0.000+/-0.000 χ^2/NDF : 23763261.3/28

0.000+/-0.000 χ^2/NDF : 22689445.6/29

yield_cav4cX_mean vs Slug



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.003+/-0.000 χ^2/NDF : 78369808.2/11

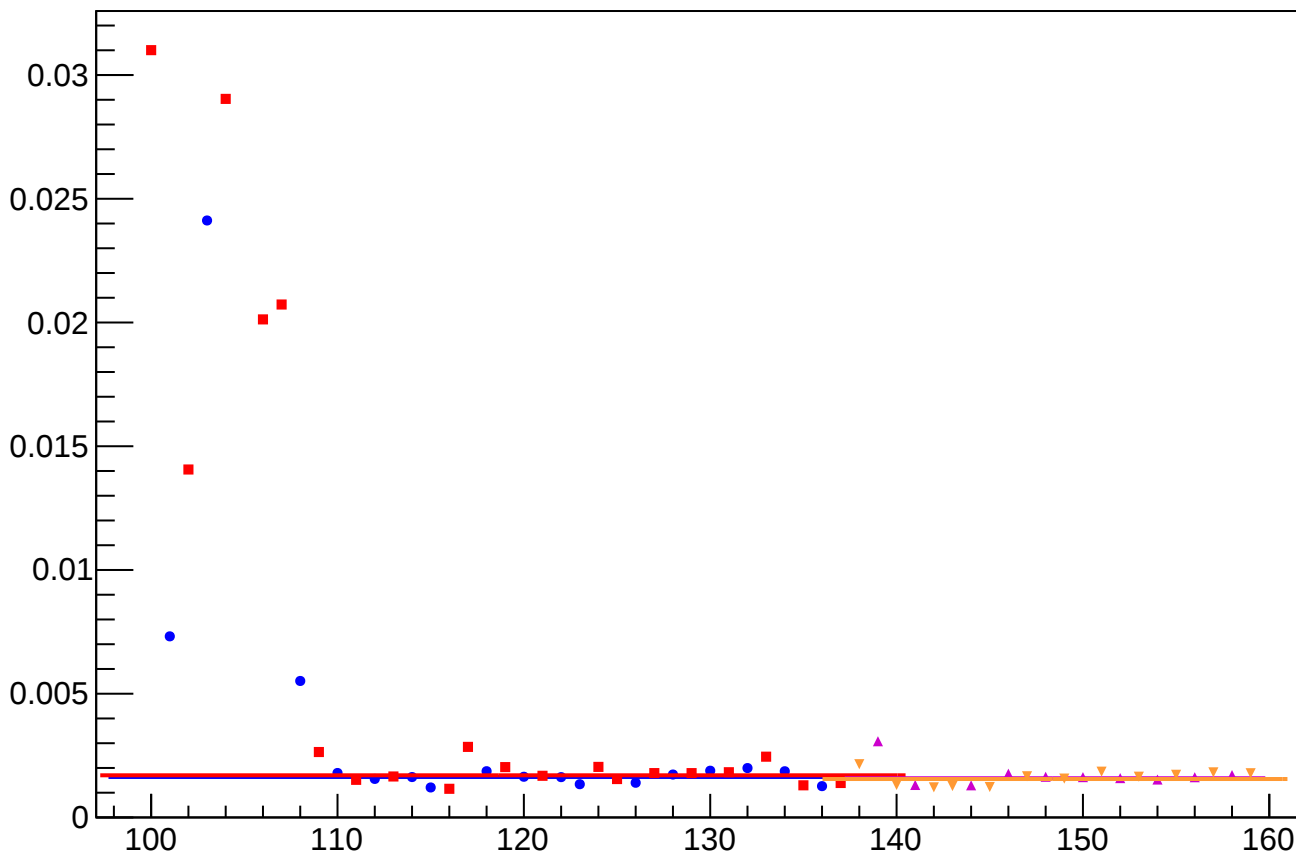
Right Out: 0.002+/-0.000 χ^2/NDF : 3041335141.0/19

Left In: -0.002+/-0.000 χ^2/NDF : 57300127.3/9

-0.003+/-0.000 χ^2/NDF : 9874139532.3/28

-0.000+/-0.000 χ^2/NDF : 3111312669.7/29

yield_cav4cX_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 1919127.9/16

Left Out: 0.002+/-0.000 χ^2/NDF : 402205.3/11

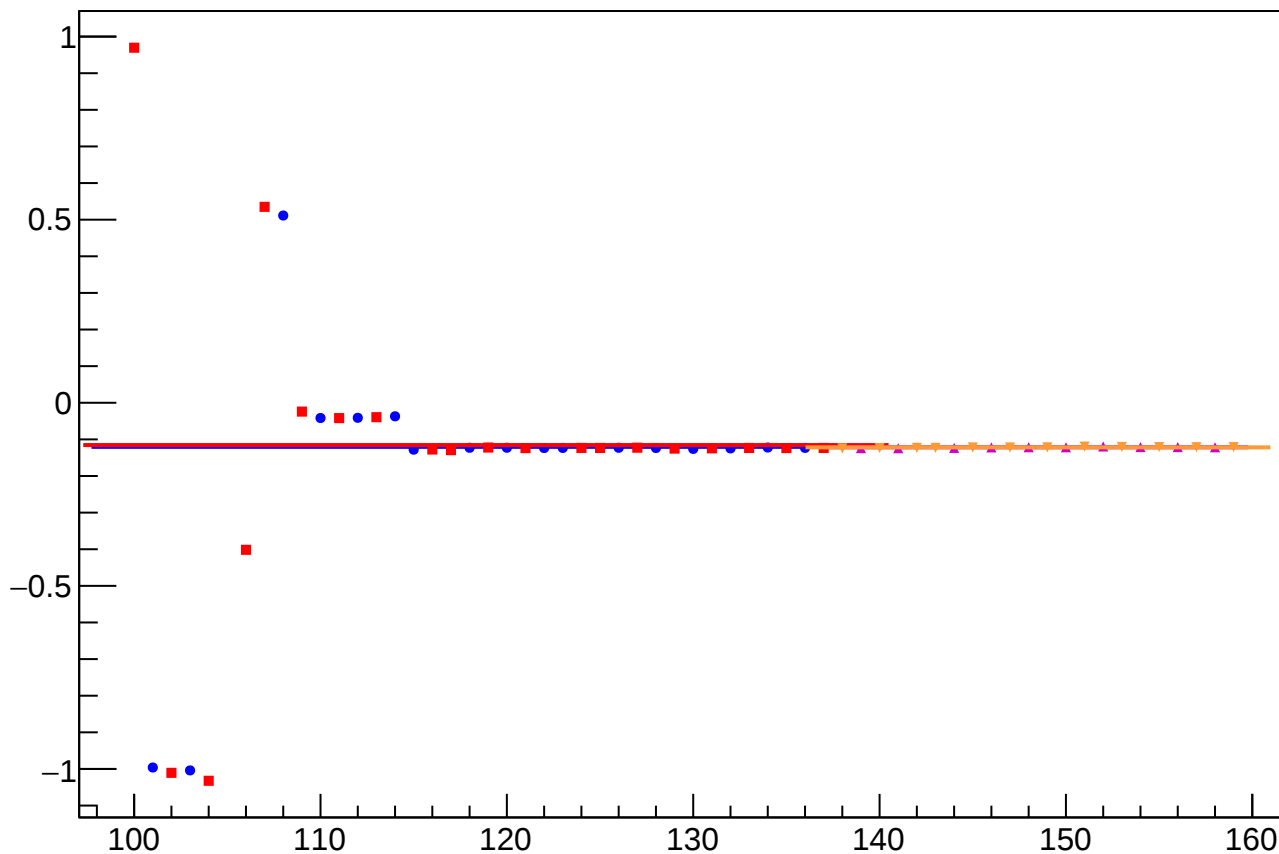
Right Out: 0.002+/-0.000 χ^2/NDF : 3038397.4/19

Left In: 0.002+/-0.000 χ^2/NDF : 455406.5/9

0.002+/-0.000 χ^2/NDF : 2335991.6/28

0.002+/-0.000 χ^2/NDF : 3520728.3/29

yield_cav4cY_mean vs Slug



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.122+/-0.000 χ^2/NDF :10084628.0/11

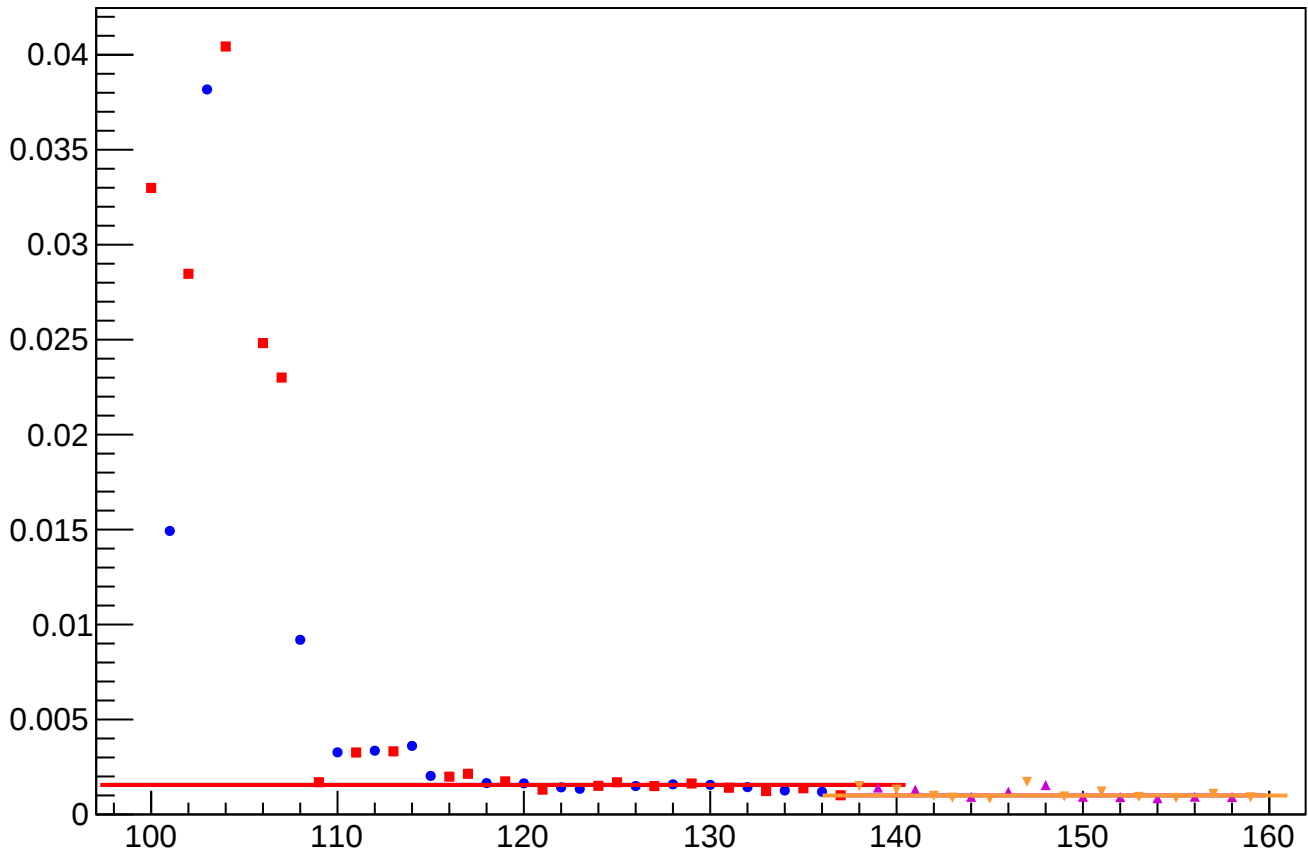
Right Out: -0.115+/-0.000 χ^2/NDF : 2458720596.9/19

Left In: -0.122+/-0.000 χ^2/NDF :12463602.0/9

-0.121+/-0.000 χ^2/NDF : 3945404797.1/28

-0.120+/-0.000 χ^2/NDF : 2527121958.2/29

yield_cav4cY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 2903607.4/16

Left Out: 0.001+/-0.000 χ^2/NDF : 682294.9/11

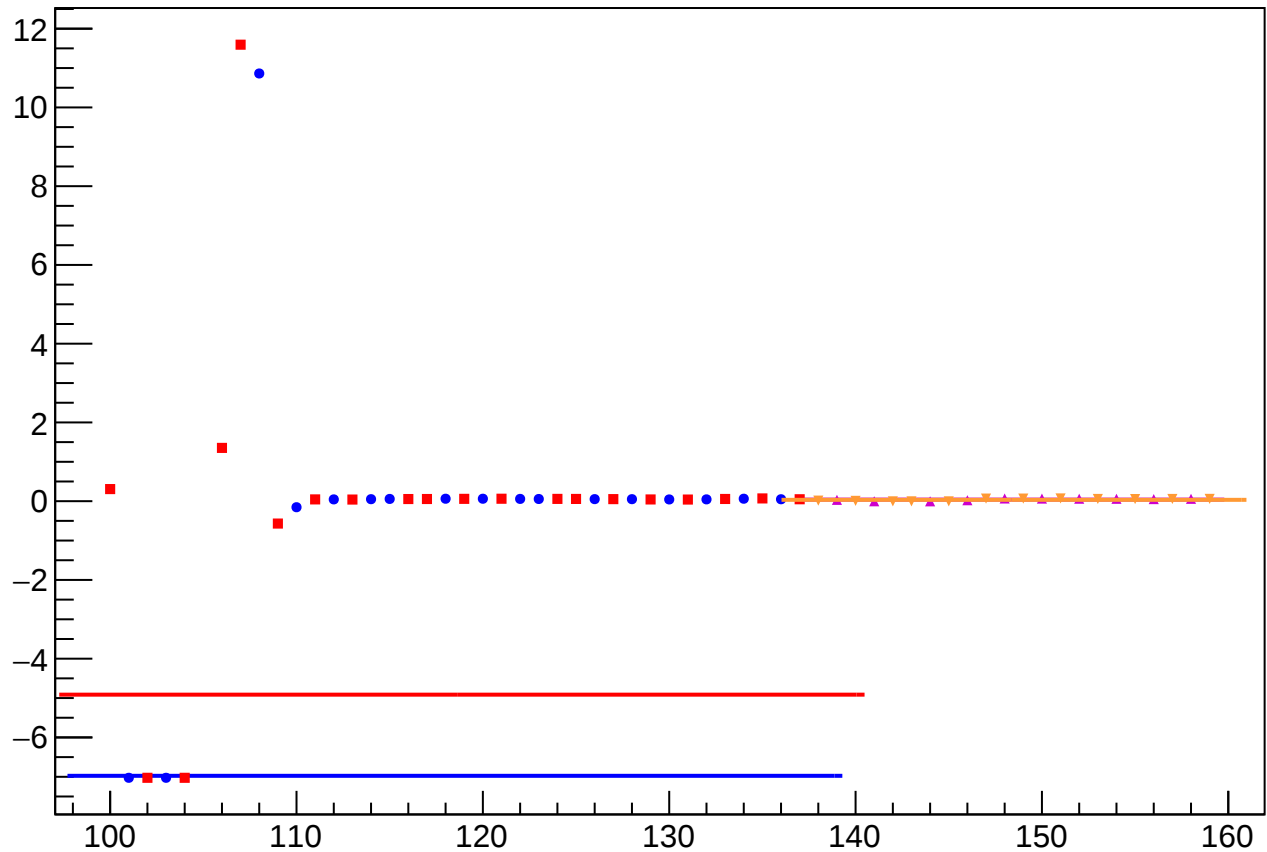
0.001+/-0.000 χ^2/NDF : 4559672.2/28

Right Out: 0.002+/-0.000 χ^2/NDF : 3544377.2/19

0.001+/-0.000 χ^2/NDF : 4989551.1/29

Left In: 0.001+/-0.000 χ^2/NDF : 516470.3/9

yield_cav4dX_mean vs Slug



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16

Left Out: 0.034+/-0.000 χ^2/NDF : 78626823.5/11

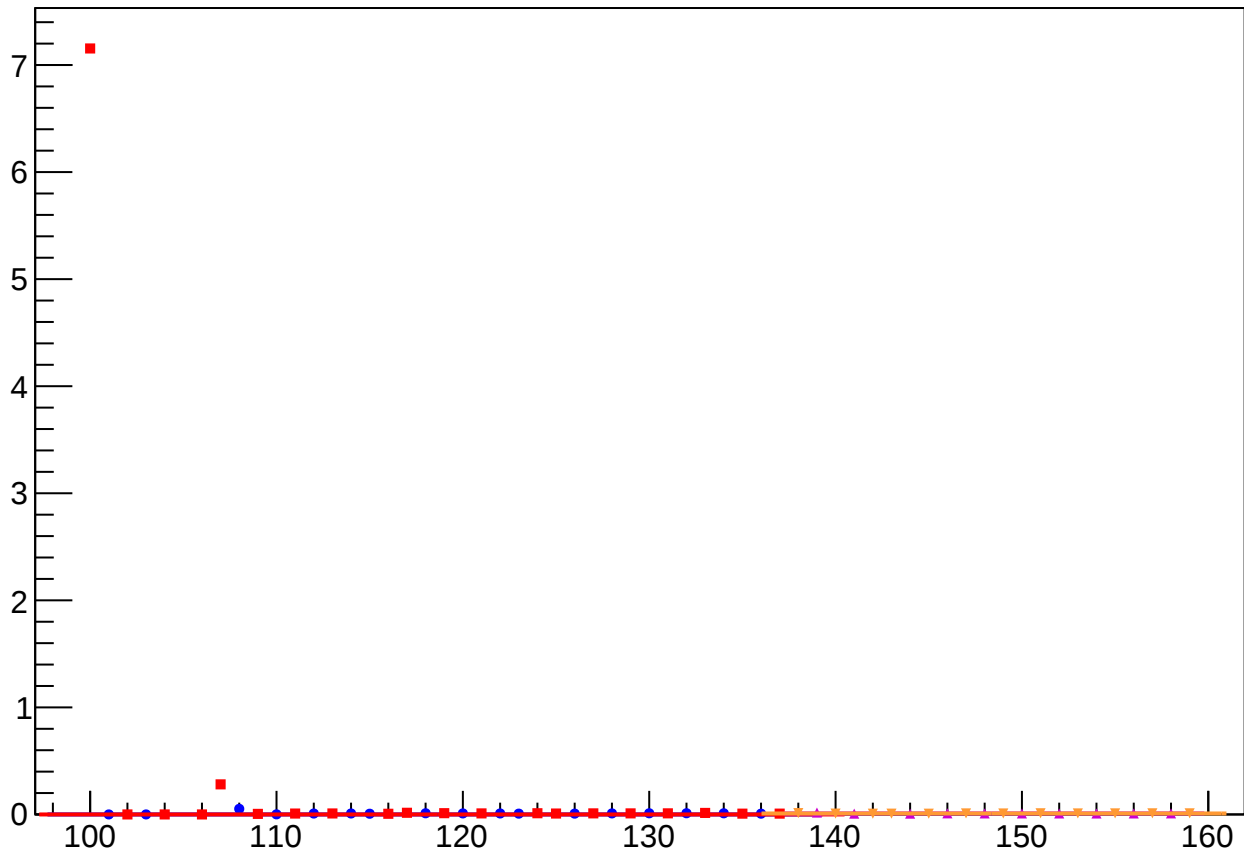
Right Out: -4.914+/-0.000 χ^2/NDF : 365366243956054.8/19

Left In: 0.040+/-0.000 χ^2/NDF : 62746530.5/9

-6.952+/-0.000 χ^2/NDF : 12848212552105.5/28

-4.900+/-0.000 χ^2/NDF : 367184011649626.3/2

yield_cav4dX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 399627.9/11

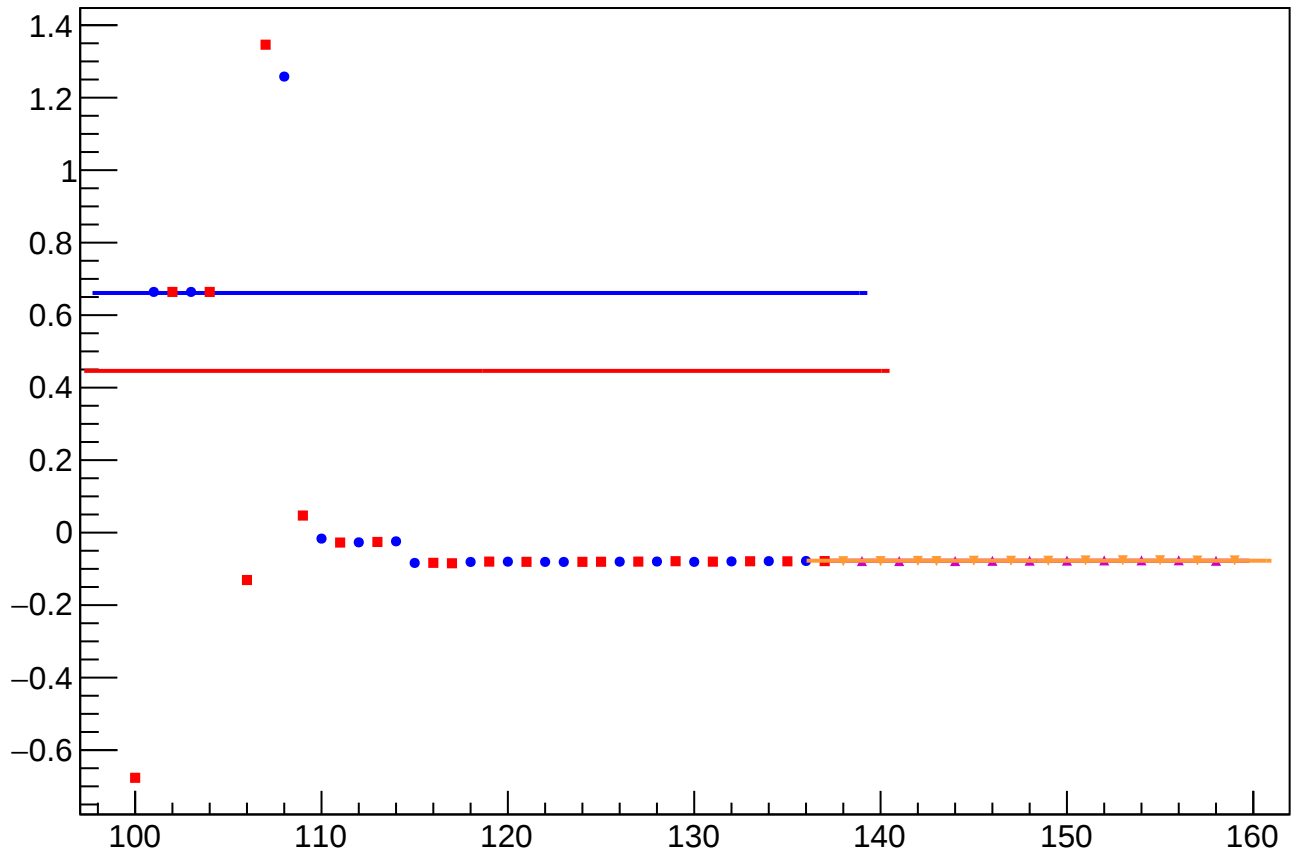
Right Out: 0.000+/-0.000 χ^2/NDF : 8880914.4/19

Left In: 0.009+/-0.000 χ^2/NDF : 457686.5/9

0.000+/-0.000 χ^2/NDF : 22046578.3/28

0.000+/-0.000 χ^2/NDF : 21611088.1/29

yield_cav4dY_mean vs Slug



Right In: 0.661+/-0.000 χ^2/NDF : 5678332616622.1/16

Left Out: -0.077+/-0.000 χ^2/NDF : 20845550.8/11

Right Out: 0.446+/-0.000 χ^2/NDF : 405434749783850.4/19

Left In: -0.077+/-0.000 χ^2/NDF : 14843415.5/9

0.654+/-0.000 χ^2/NDF : 19529024057289.6/28

0.442+/-0.000 χ^2/NDF : 411874310459907.0/29

yield_cav4dY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 406761.3/11

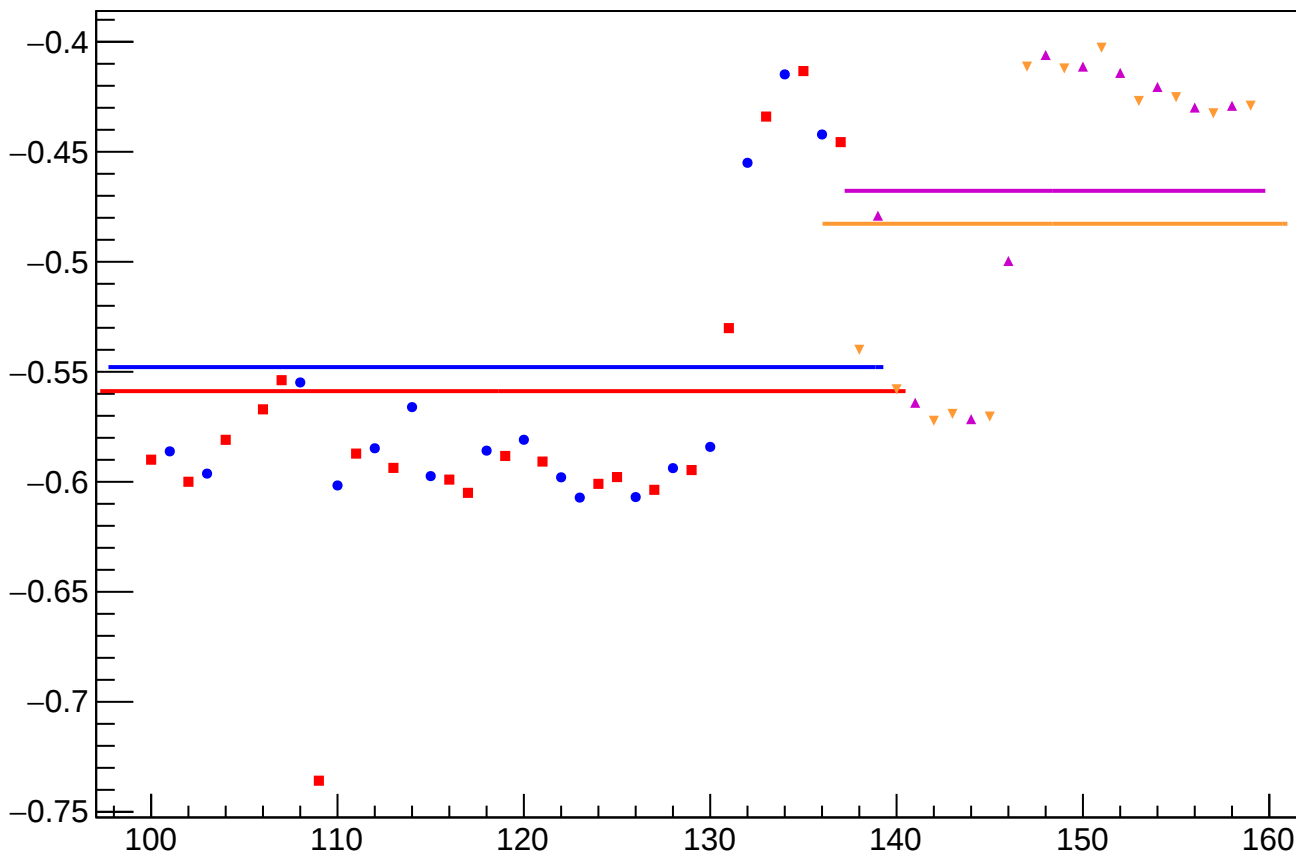
0.000+/-0.000 χ^2/NDF : 25925760.1/28

Right Out: 0.000+/-0.000 χ^2/NDF : 9575039.3/19

0.000+/-0.000 χ^2/NDF : 24213995.1/29

Left In: 0.001+/-0.000 χ^2/NDF : 303644.8/9

yield_bpm4aX_mean vs Slug



Right In: -0.548 ± 0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.483 ± 0.000 χ^2/NDF : 88389531.5/11

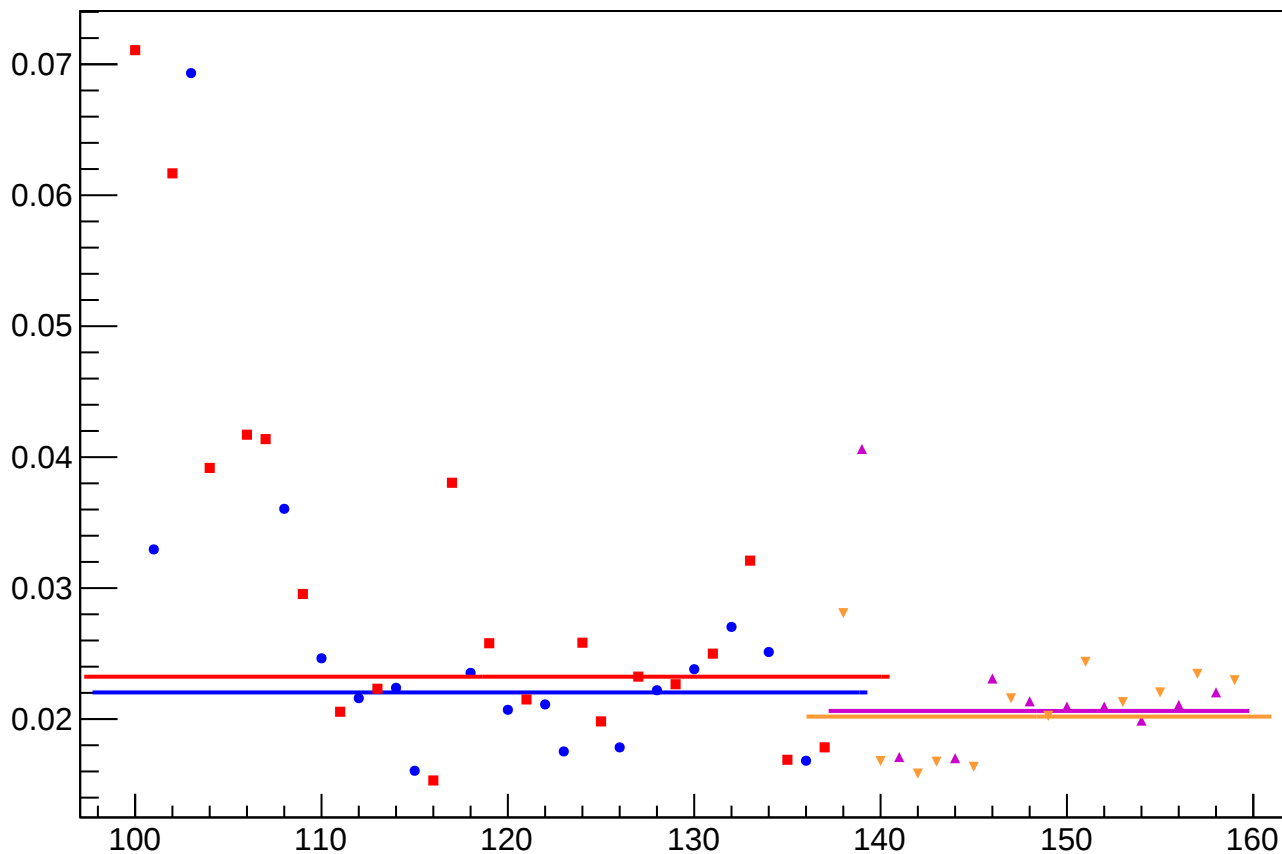
Right Out: -0.559 ± 0.000 χ^2/NDF : 65741796.4/19

Left In: -0.468 ± 0.000 χ^2/NDF : 66038802.5/9

-0.508 ± 0.000 χ^2/NDF : 164507926.5/28

-0.504 ± 0.000 χ^2/NDF : 181356073.6/29

yield_bpm4aX_rms vs Slug



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 381700.2/11

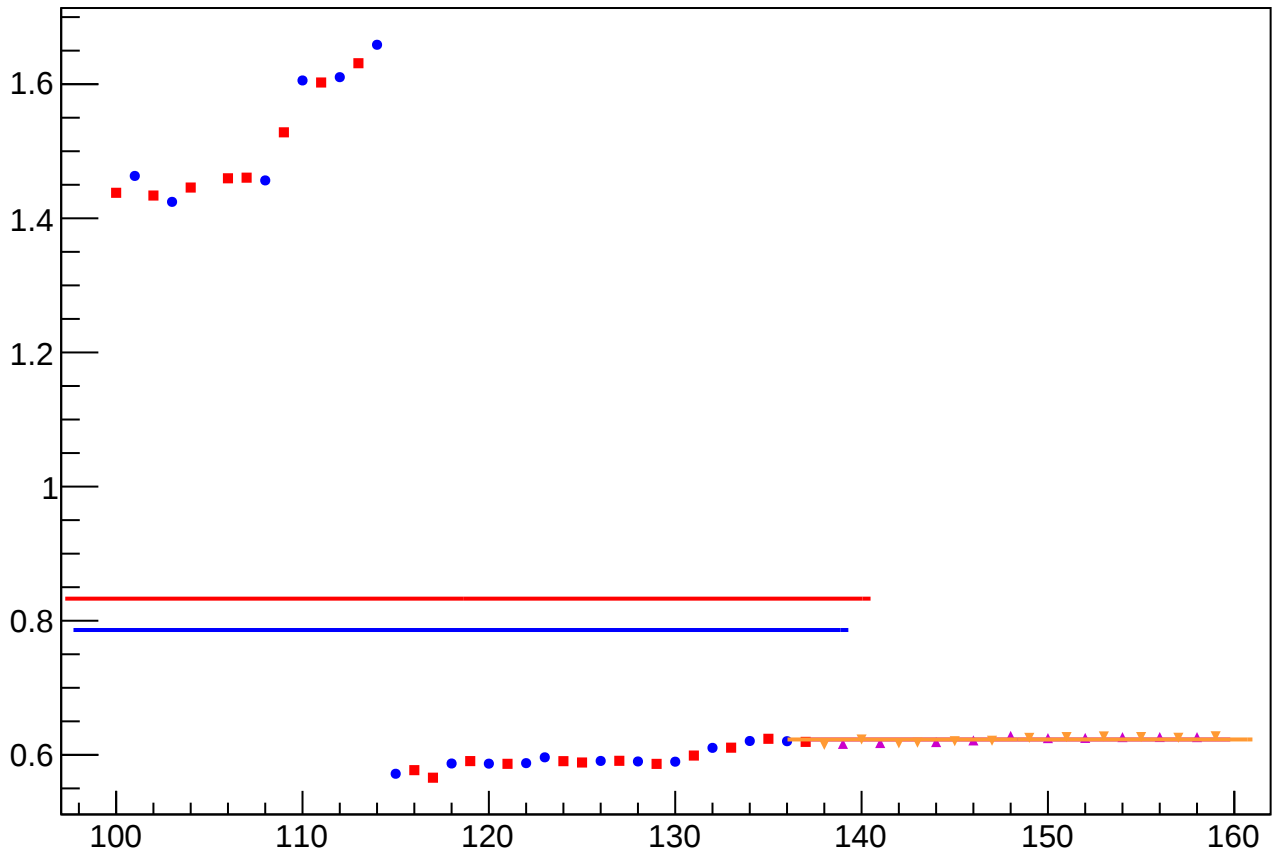
Right Out: 0.023+/-0.000 χ^2/NDF : 1169205.3/19

Left In: 0.021+/-0.000 χ^2/NDF : 458367.0/9

0.021+/-0.000 χ^2/NDF : 1384877.0/28

0.022+/-0.000 χ^2/NDF : 1709242.6/29

yield_bpm4aY_mean vs Slug



Right In: 0.786 $\pm$ 0.000 χ^2 /NDF: 3590113316.1/16

Left Out: 0.623 $\pm$ 0.000 χ^2 /NDF:957353.3/11

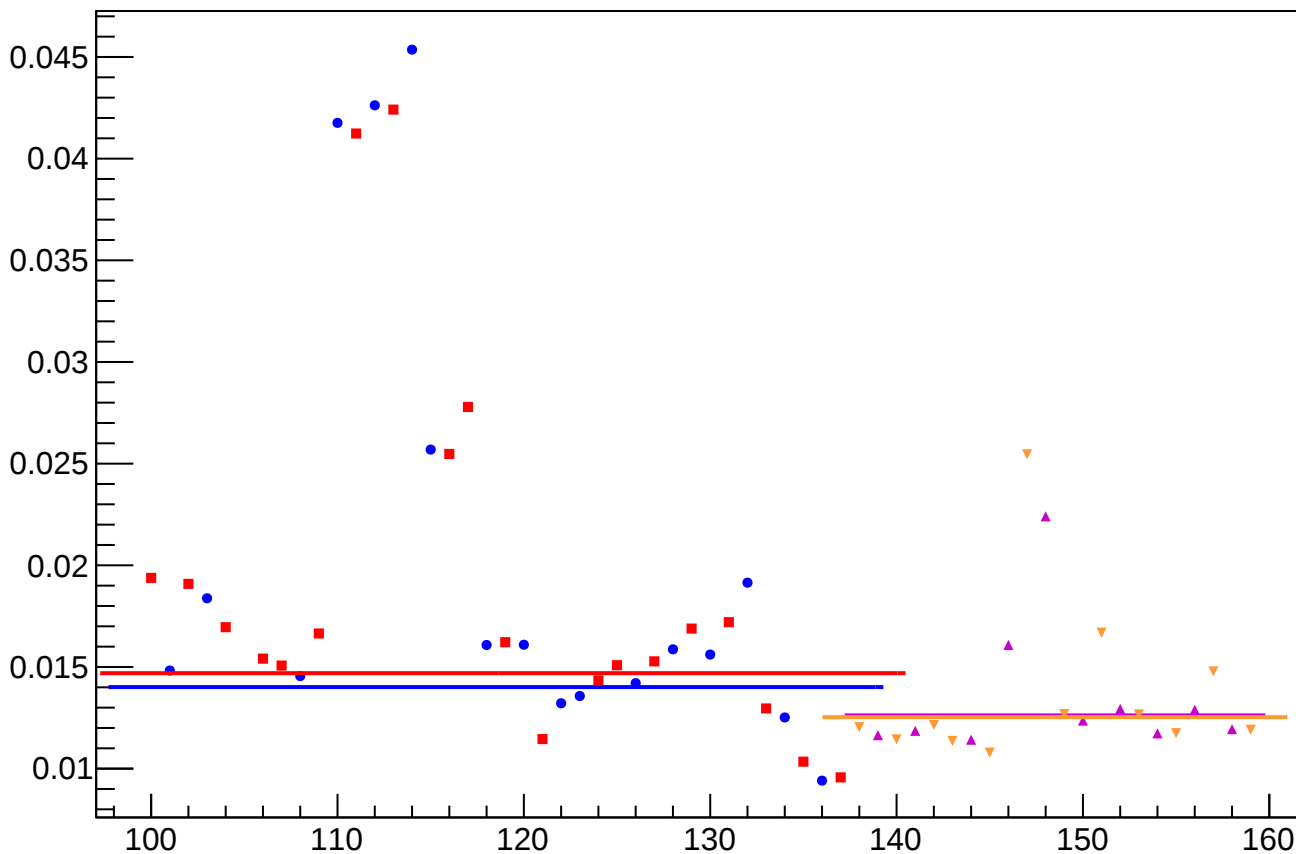
0.681 $\pm$ 0.000 χ^2 /NDF: 4089877324.8/28

Right Out: 0.833 $\pm$ 0.000 χ^2 /NDF: 4160348649.7/19

0.700 $\pm$ 0.000 χ^2 /NDF: 4942080363.5/29

Left In: 0.623 $\pm$ 0.000 χ^2 /NDF:773576.2/9

yield_bpm4aY_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.013+/-0.000 χ^2/NDF : 587449.6/11

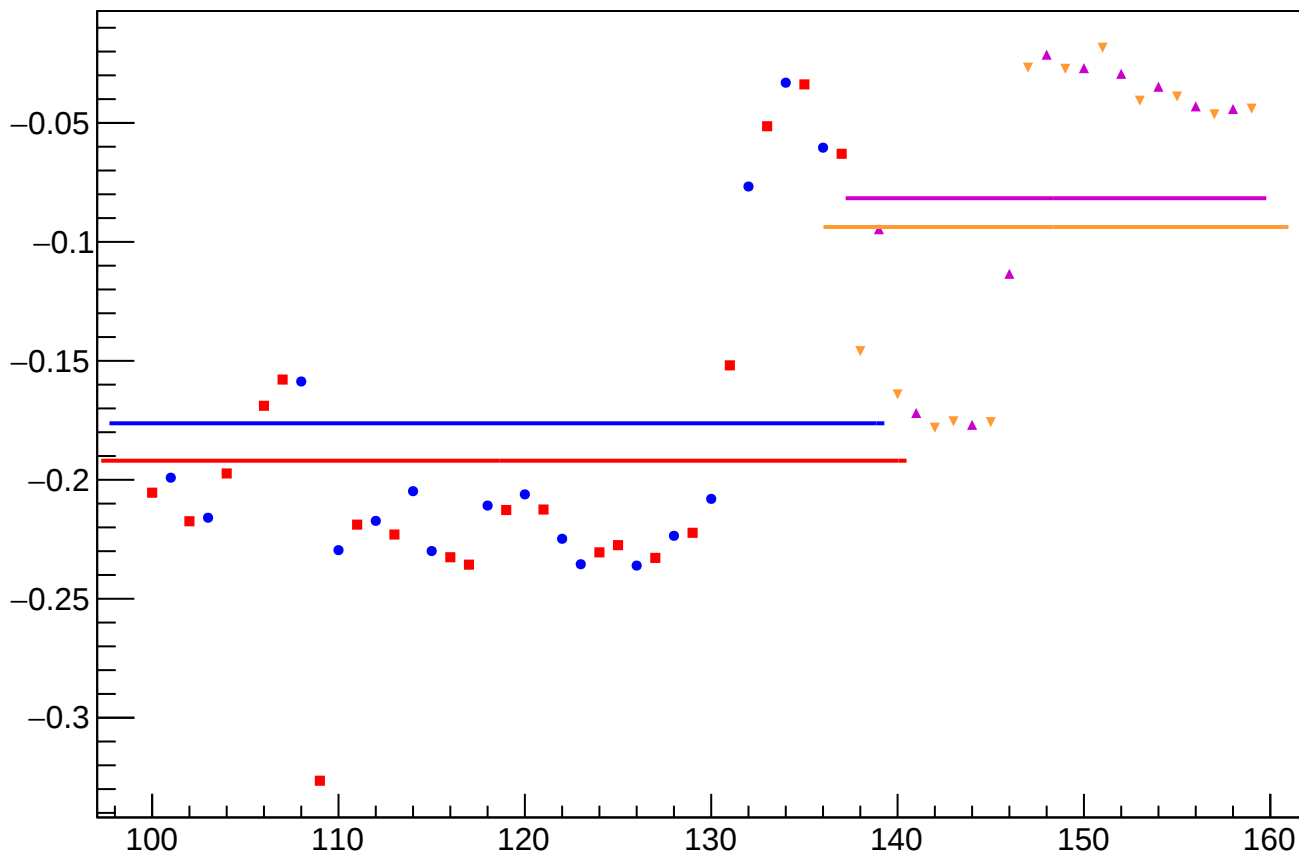
0.013+/-0.000 χ^2/NDF : 2074322.7/28

Right Out: 0.015+/-0.000 χ^2/NDF : 1280473.4/19

0.013+/-0.000 χ^2/NDF : 1841786.7/29

Left In: 0.013+/-0.000 χ^2/NDF : 408706.2/9

yield_bpm4eX_mean vs Slug



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.094+/-0.000 χ^2/NDF : 85519911.0/11

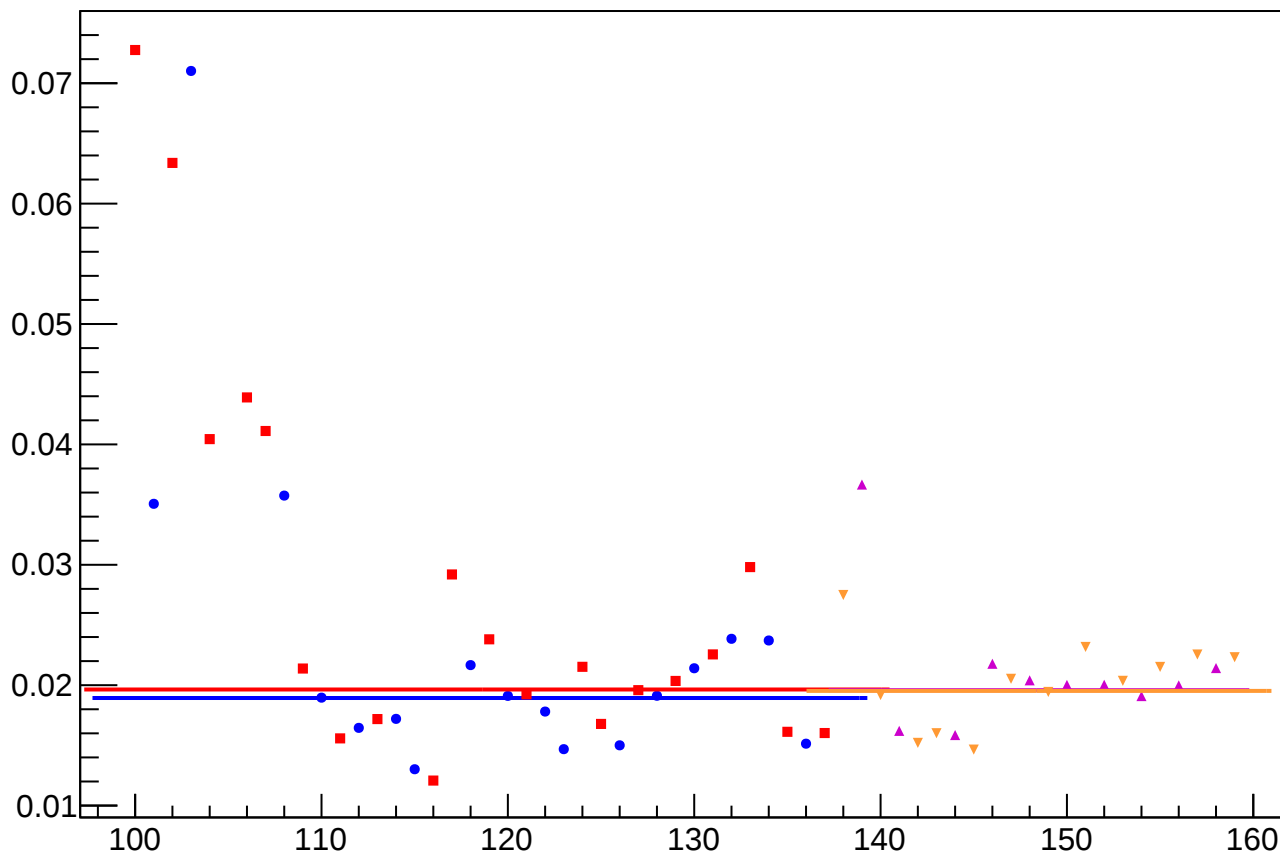
Right Out: -0.192+/-0.000 χ^2/NDF : 83899255.4/19

Left In: -0.082+/-0.000 χ^2/NDF : 67062946.5/9

-0.129+/-0.000 χ^2/NDF : 209669485.7/28

-0.131+/-0.000 χ^2/NDF : 242172250.8/29

yield_bpm4eX_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.020+/-0.000 χ^2/NDF : 411911.4/11

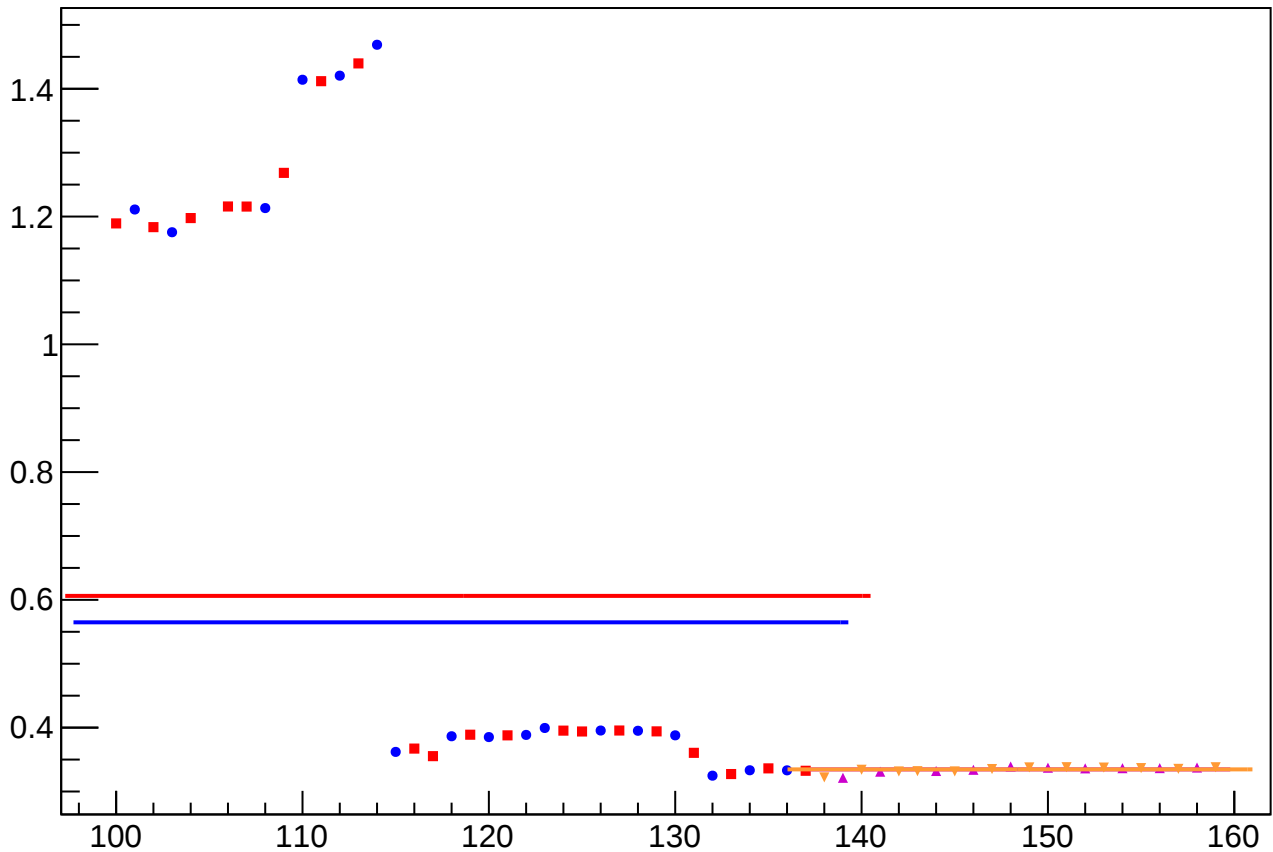
Right Out: 0.020+/-0.000 χ^2/NDF : 1466285.9/19

Left In: 0.020+/-0.000 χ^2/NDF : 442482.2/9

0.019+/-0.000 χ^2/NDF : 1623300.1/28

0.020+/-0.000 χ^2/NDF : 1908817.2/29

yield_bpm4eY_mean vs Slug



Right In: 0.565+/-0.000 χ^2/NDF : 5030969499.3/16

Left Out: 0.335+/-0.000 χ^2/NDF : 1060800.7/11

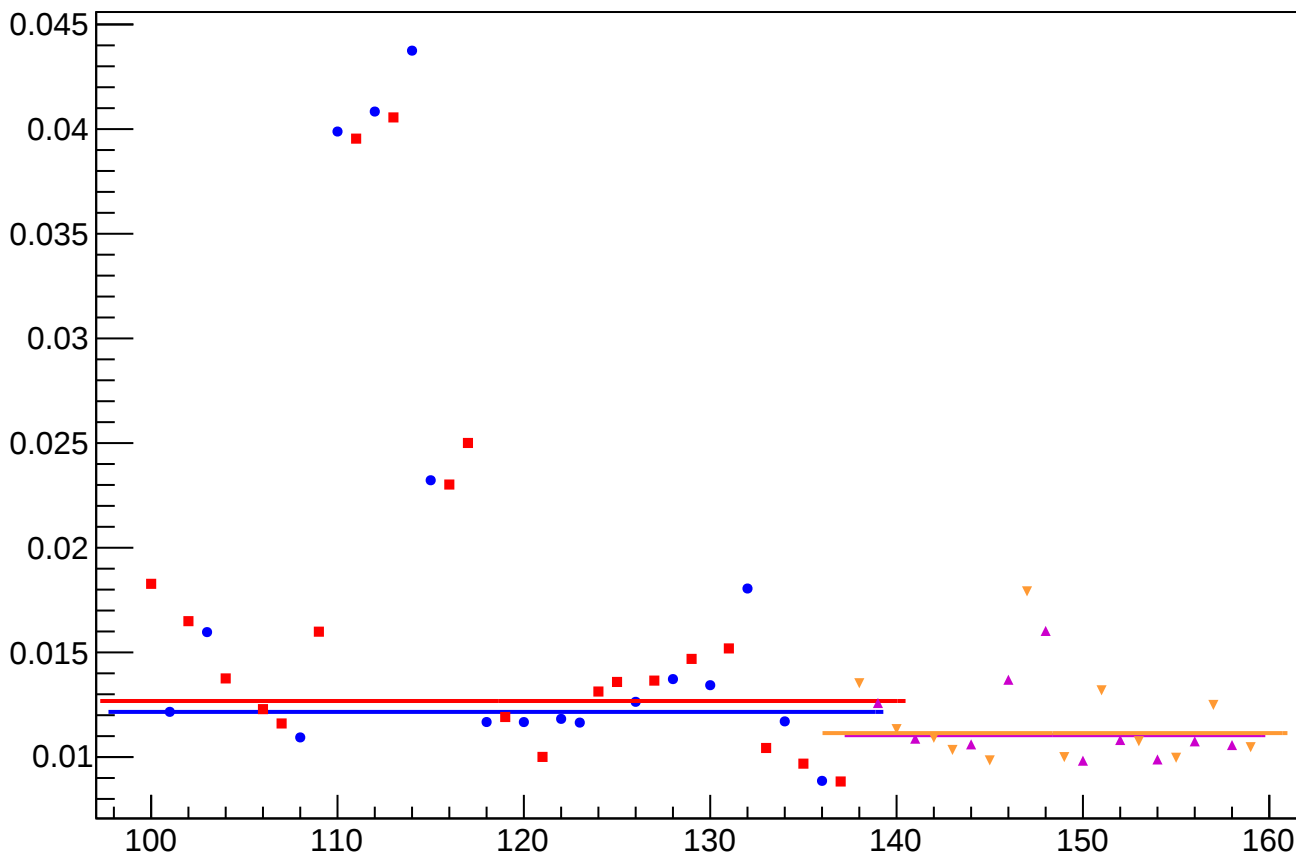
Right Out: 0.606+/-0.000 χ^2/NDF : 5517630064.2/19

Left In: 0.335+/-0.000 χ^2/NDF : 1111367.7/9

0.418+/-0.000 χ^2/NDF : 6327450402.5/28

0.434+/-0.000 χ^2/NDF : 7236752802.1/29

yield_bpm4eY_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:394865.2/11

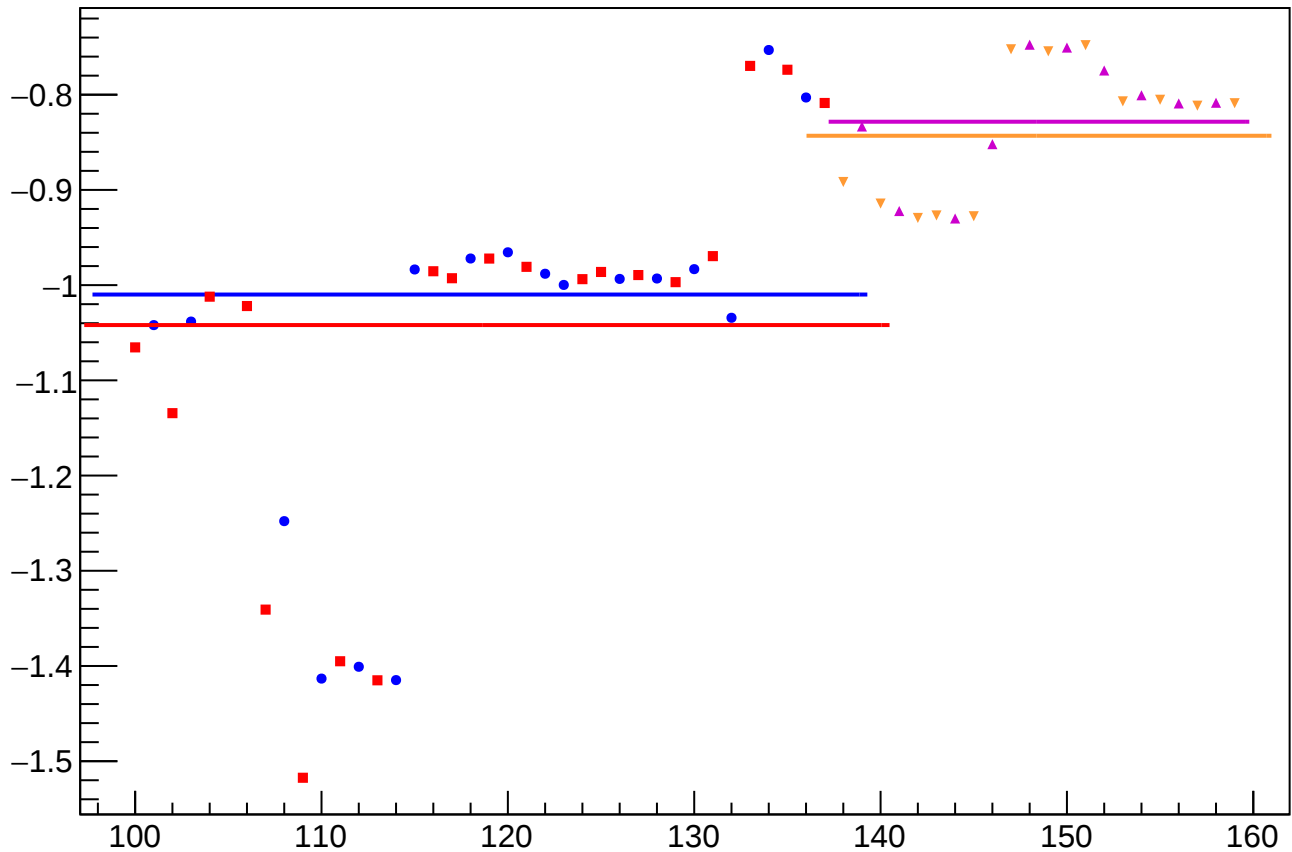
Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1289415.7/19

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:281640.3/9

0.012 $\pm$ 0.000 χ^2 /NDF: 1754893.0/28

0.012 $\pm$ 0.000 χ^2 /NDF: 1695306.4/29

yield_bpm4acX_mean vs Slug



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.843+/-0.000 χ^2/NDF : 91383558.6/11

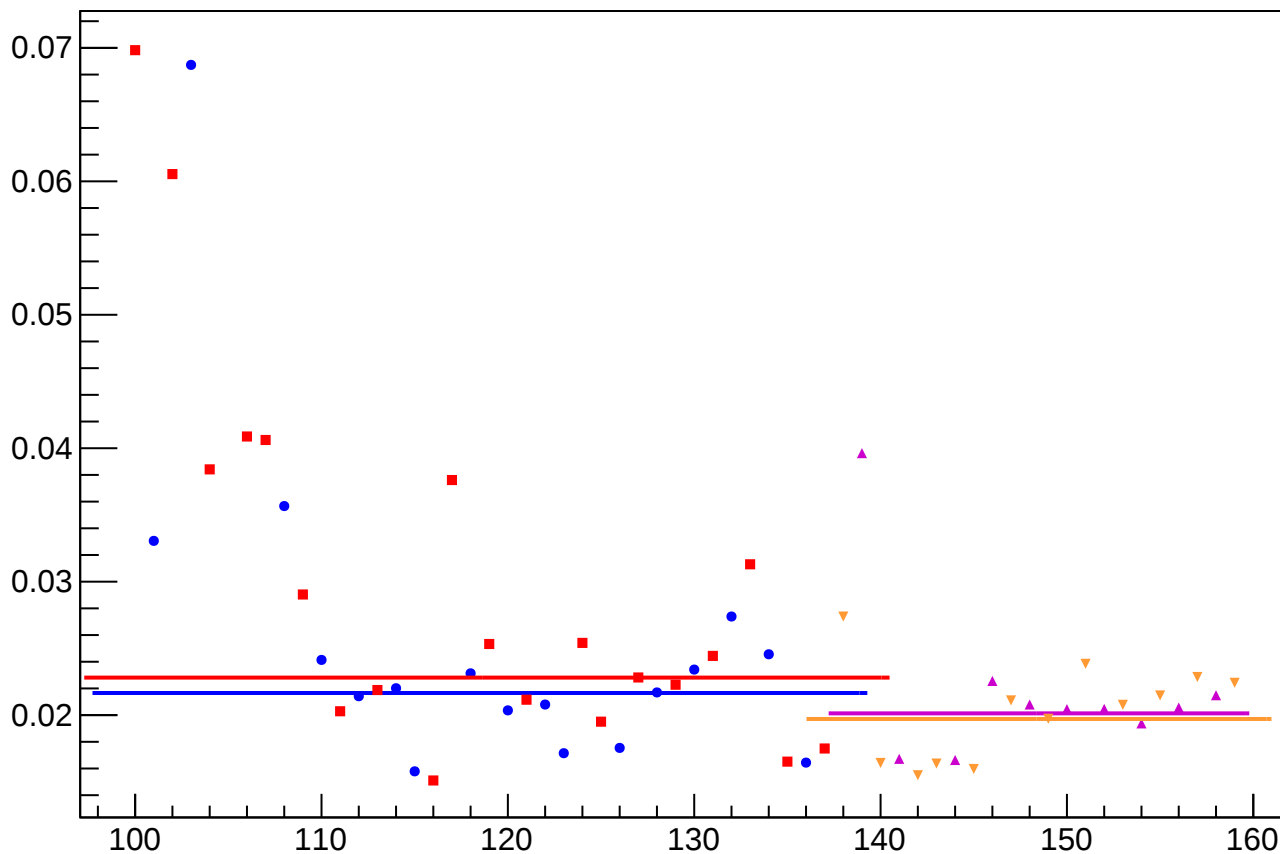
Right Out: -1.042+/-0.000 χ^2/NDF : 530175104.2/19

Left In: -0.828+/-0.000 χ^2/NDF : 69852034.9/9

-0.906+/-0.000 χ^2/NDF : 666571054.8/28

-0.913+/-0.000 χ^2/NDF : 883963043.1/29

yield_bpm4acX_rms vs Slug



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.020+/-0.000 χ^2/NDF : 379597.9/11

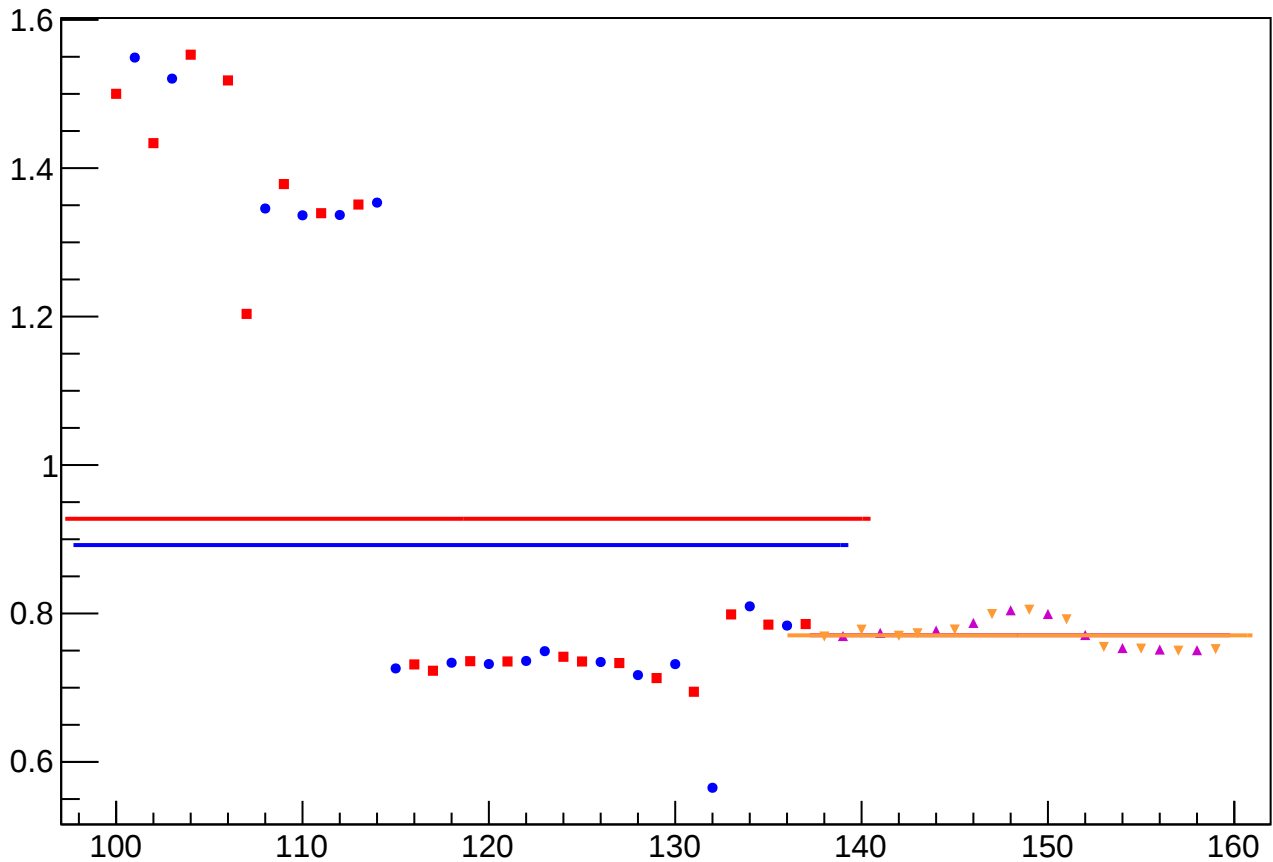
Right Out: 0.023+/-0.000 χ^2/NDF : 1165116.5/19

Left In: 0.020+/-0.000 χ^2/NDF : 455753.5/9

0.020+/-0.000 χ^2/NDF : 1414248.0/28

0.021+/-0.000 χ^2/NDF : 1710261.0/29

yield_bpm4acY_mean vs Slug



Right In: 0.892+/-0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.771+/-0.000 χ^2/NDF :15184484.8/11

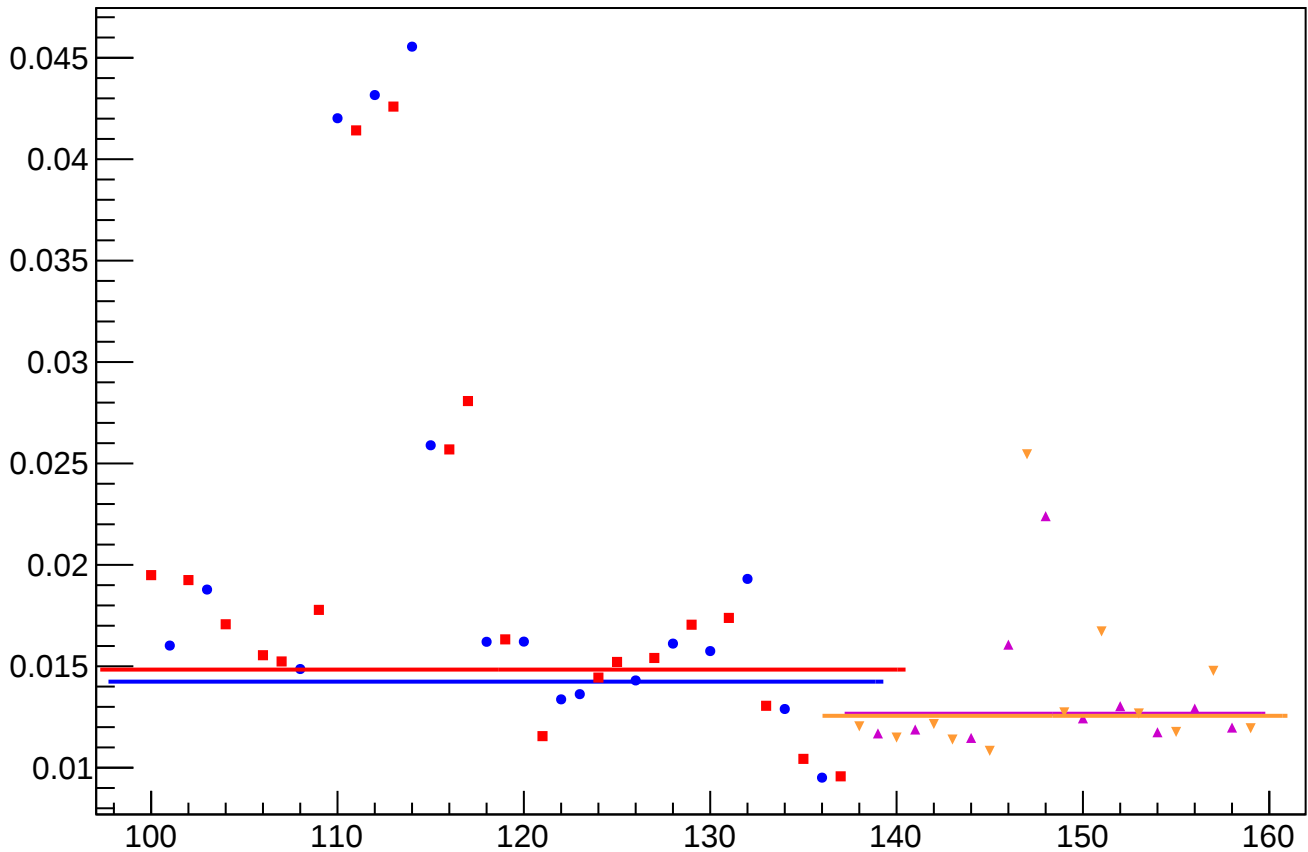
0.812+/-0.000 χ^2/NDF : 2698753383.5/28

Right Out: 0.928+/-0.000 χ^2/NDF : 2439574936.7/19

0.828+/-0.000 χ^2/NDF : 2881033056.7/29

Left In: 0.771+/-0.000 χ^2/NDF :13150018.2/9

yield_bpm4acY_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.013+/-0.000 χ^2/NDF : 582836.3/11

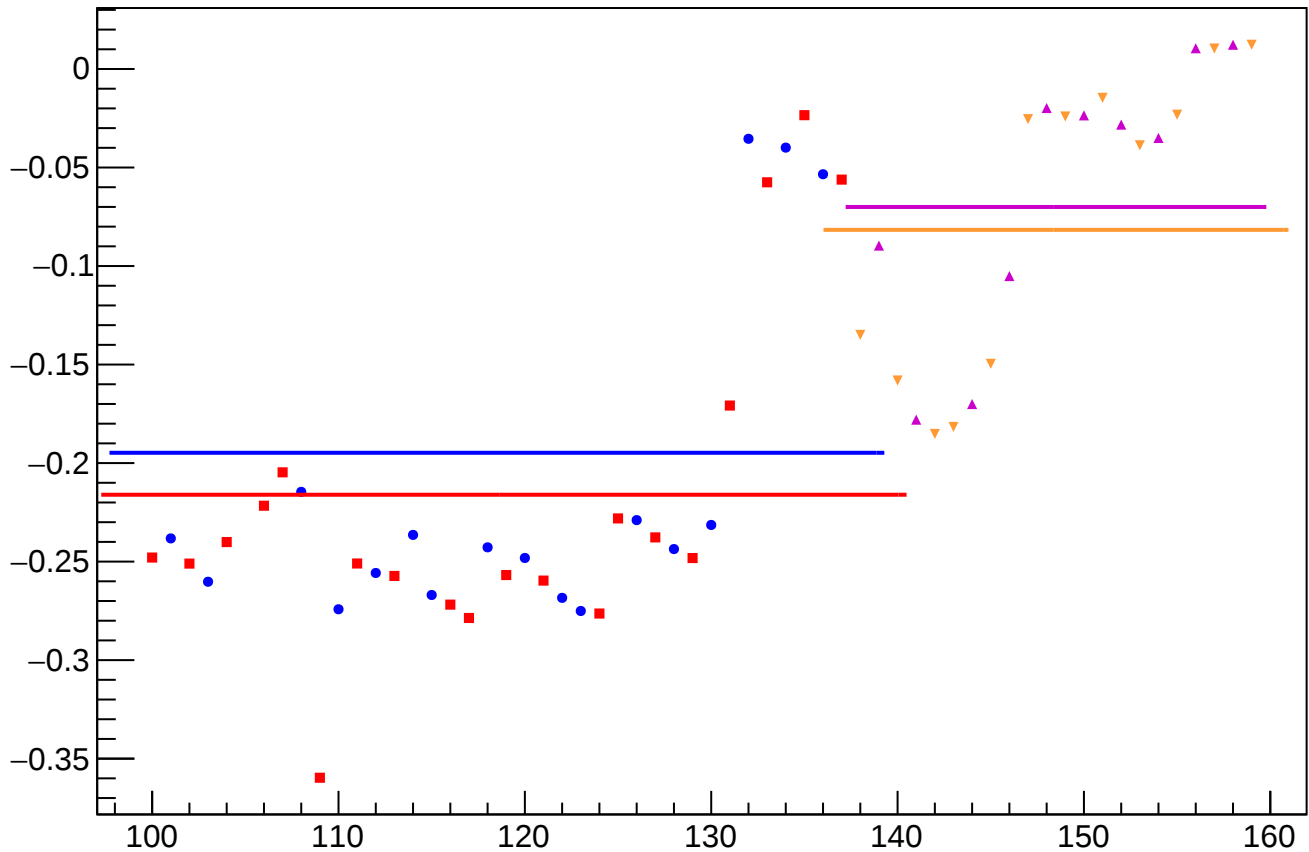
Right Out: 0.015+/-0.000 χ^2/NDF : 1291174.0/19

Left In: 0.013+/-0.000 χ^2/NDF : 404518.7/9

0.013+/-0.000 χ^2/NDF : 2101984.8/28

0.013+/-0.000 χ^2/NDF : 1860616.6/29

yield_bpm4ecX_mean vs Slug



Right In: -0.195 ± 0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.082 ± 0.000 χ^2/NDF : 103484660.5/11

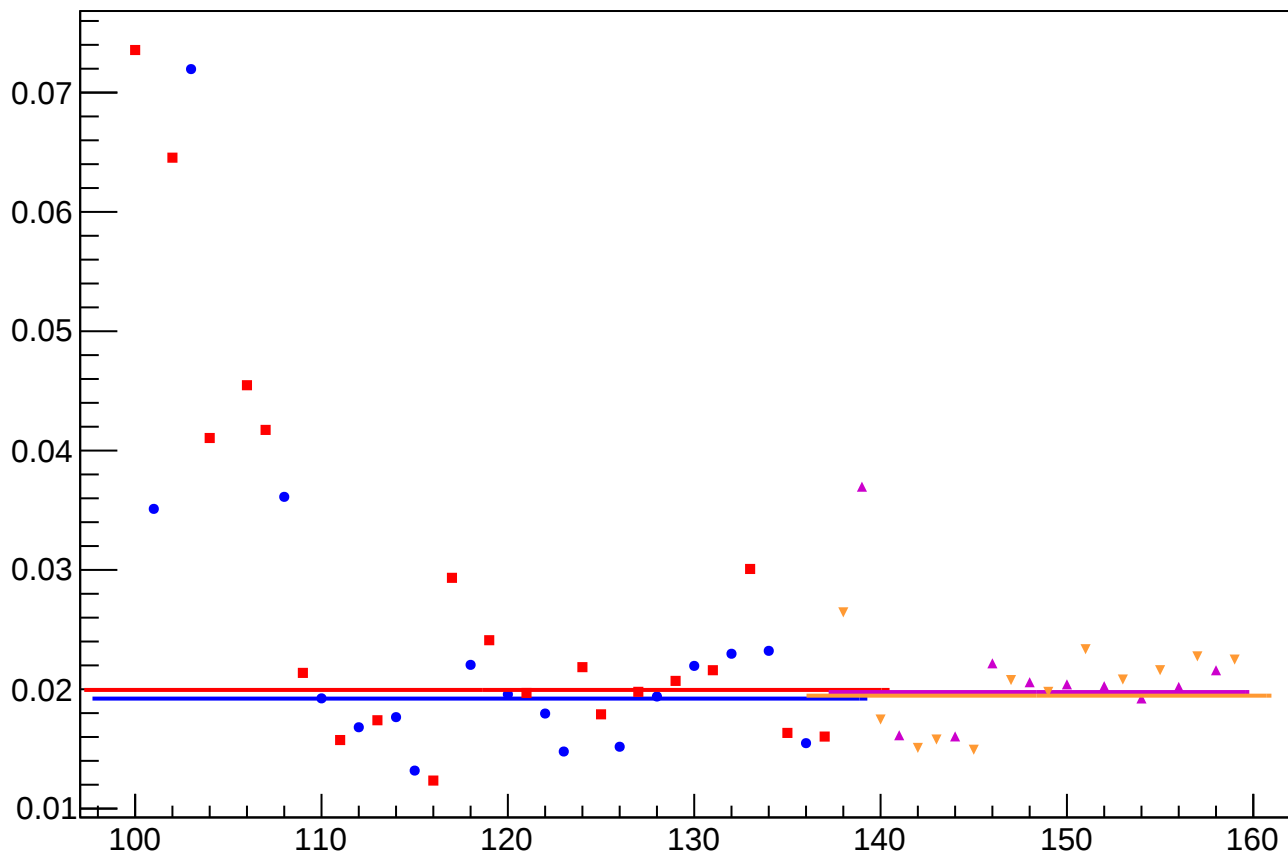
Right Out: -0.216 ± 0.000 χ^2/NDF : 112167032.2/19

Left In: -0.070 ± 0.000 χ^2/NDF : 86035390.9/9

-0.130 ± 0.000 χ^2/NDF : 312045970.5/28

-0.135 ± 0.000 χ^2/NDF : 353913835.5/29

yield_bpm4ecX_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 412533.7/11

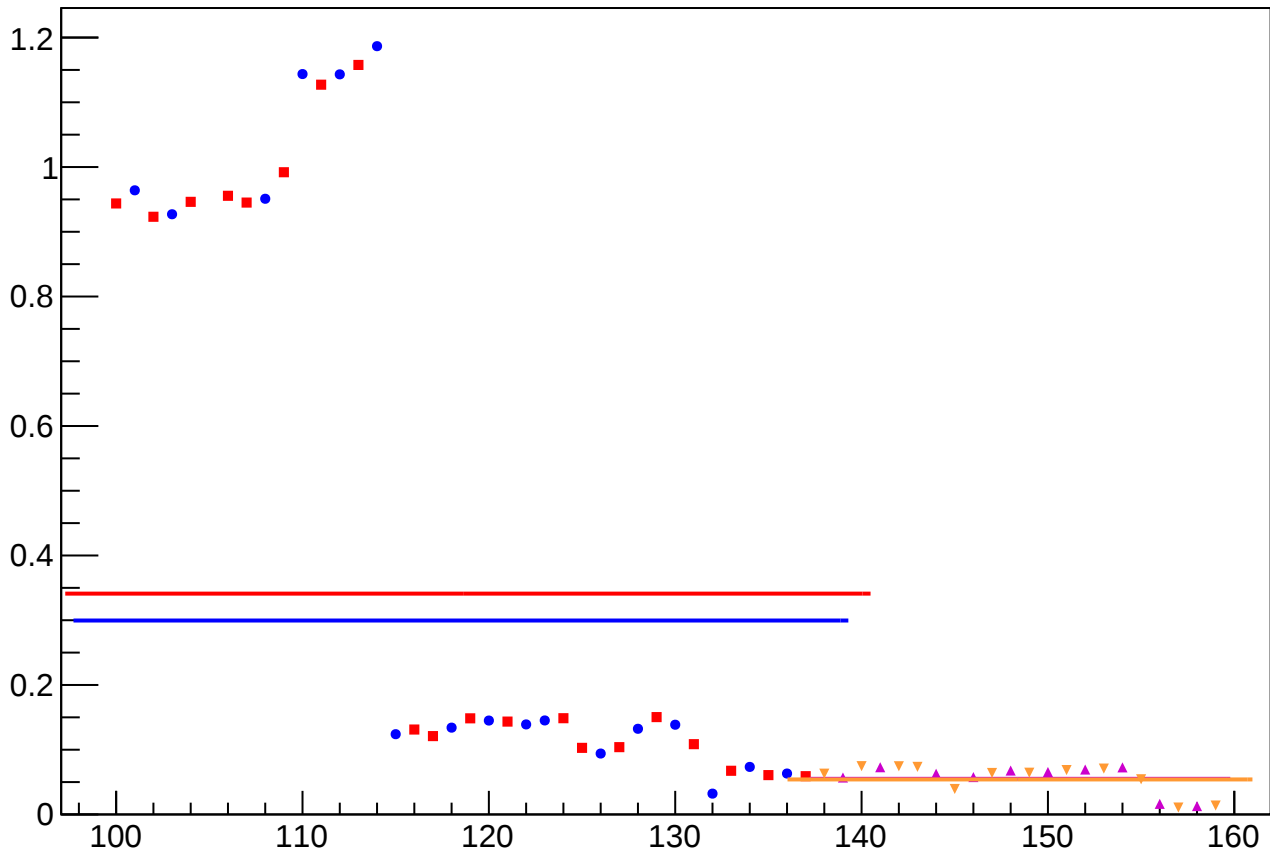
Right Out: 0.020+/-0.000 χ^2/NDF : 1455211.7/19

Left In: 0.020+/-0.000 χ^2/NDF : 450502.0/9

0.019+/-0.000 χ^2/NDF : 1590562.8/28

0.020+/-0.000 χ^2/NDF : 1906170.3/29

yield_bpm4ecY_mean vs Slug



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.054+/-0.000 χ^2/NDF : 34622976.5/11

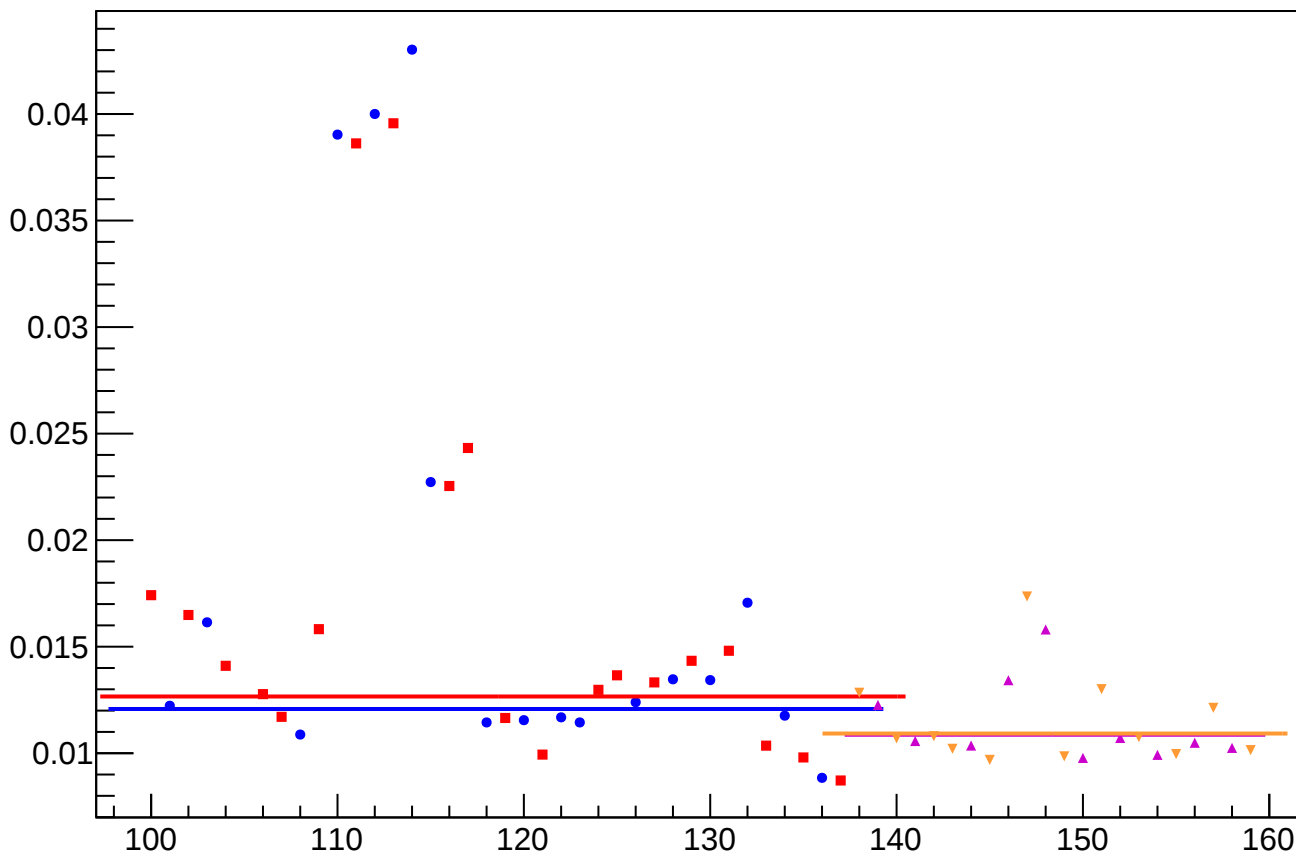
0.141+/-0.000 χ^2/NDF : 6708758569.1/28

Right Out: 0.341+/-0.000 χ^2/NDF : 5453748737.7/19

0.158+/-0.000 χ^2/NDF : 7418874872.1/29

Left In: 0.055+/-0.000 χ^2/NDF : 32440875.8/9

yield_bpm4ecY_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 362969.6/11

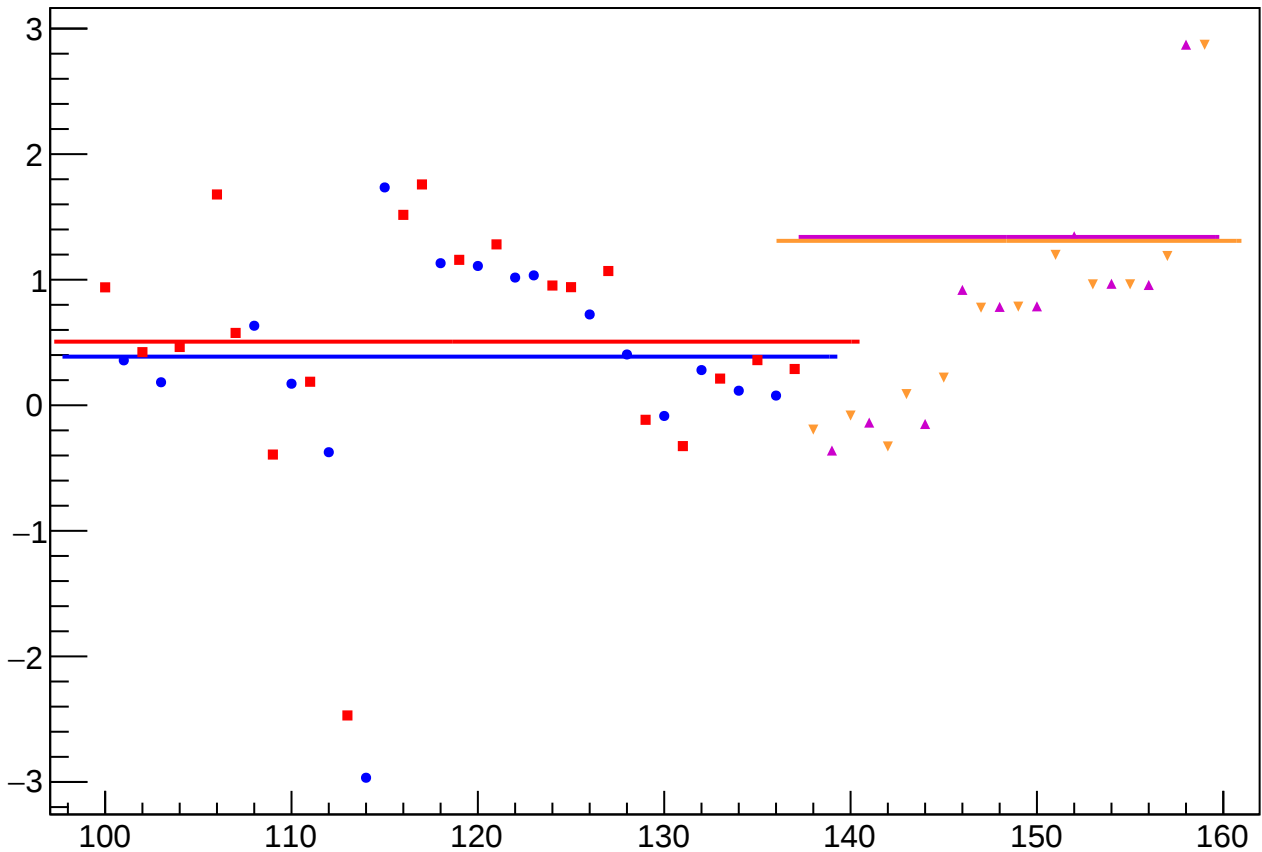
Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1255391.1/19

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 271616.4/9

0.011 $\pm$ 0.000 χ^2 /NDF: 1711485.8/28

0.012 $\pm$ 0.000 χ^2 /NDF: 1679359.2/29

yield_bpm1X_mean vs Slug



Right In: 0.387 ± 0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.309 ± 0.000 χ^2/NDF : 11324121107.5/11

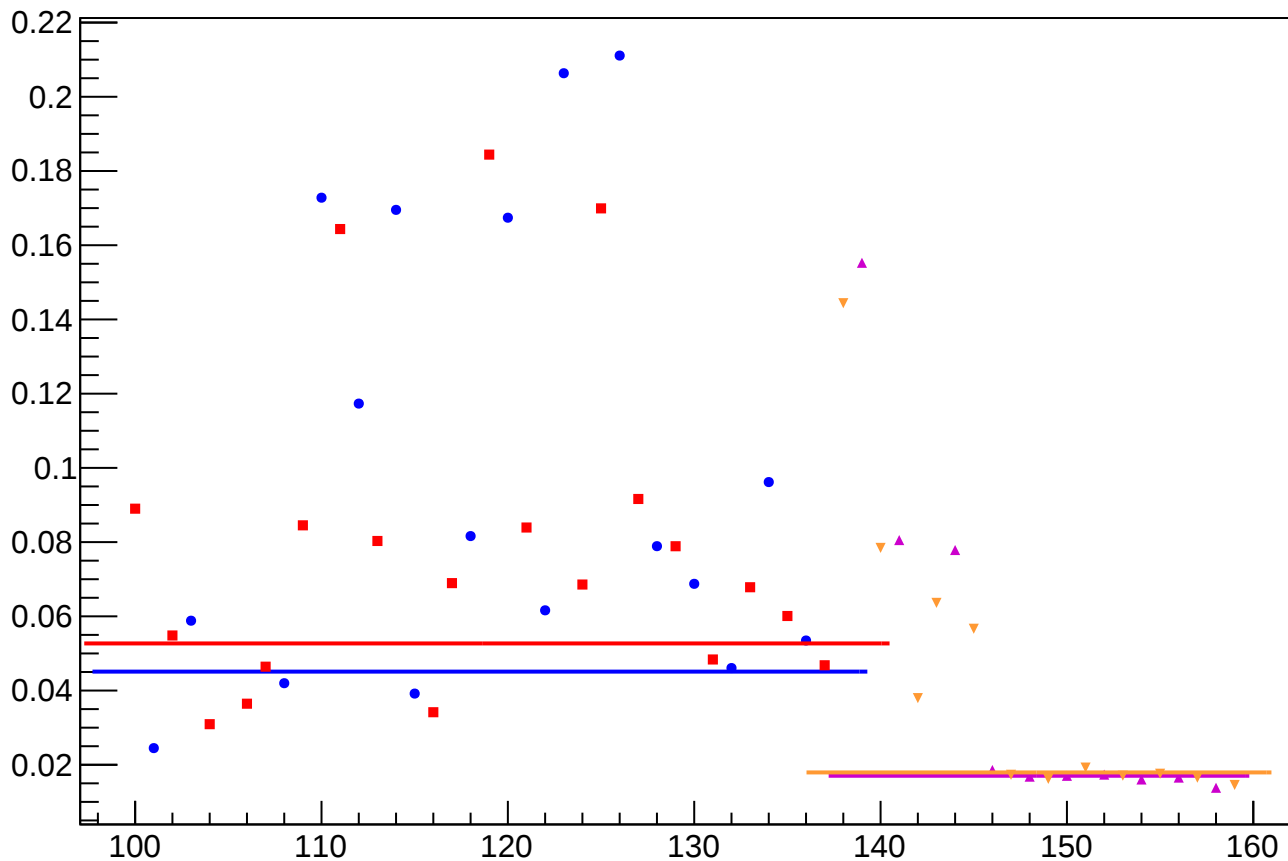
Right Out: 0.507 ± 0.000 χ^2/NDF : 995347030.4/19

Left In: 1.341 ± 0.000 χ^2/NDF : 11970455033.0/9

1.227 ± 0.000 χ^2/NDF : 12926647345.9/28

1.278 ± 0.000 χ^2/NDF : 13930842697.1/29

yield_bpm1X_rms vs Slug



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.018+/-0.000 χ^2/NDF : 2656299.0/11

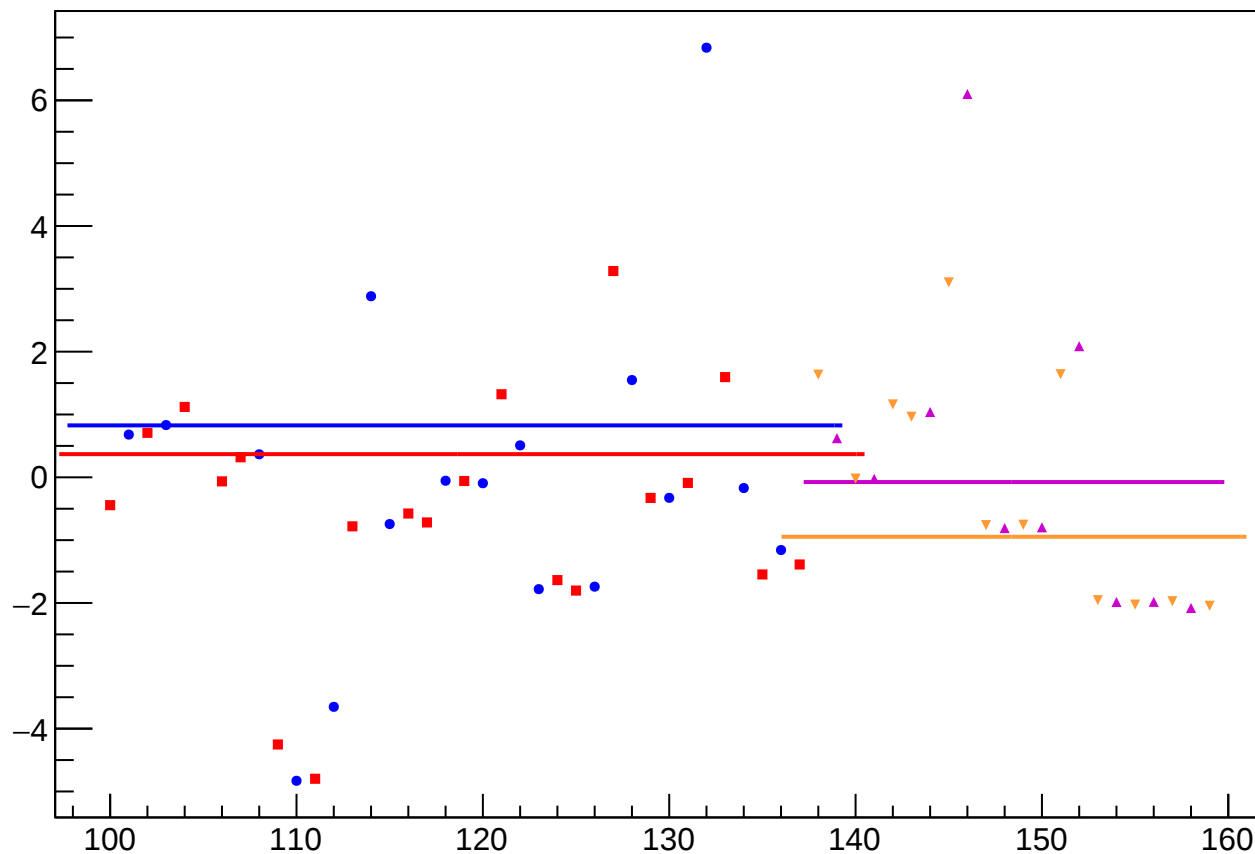
Right Out: 0.053+/-0.000 χ^2/NDF : 2194555.4/19

Left In: 0.017+/-0.000 χ^2/NDF : 2281246.0/9

0.020+/-0.000 χ^2/NDF : 7853575.0/28

0.020+/-0.000 χ^2/NDF : 8003968.3/29

yield_bpm1Y_mean vs Slug



Right In: 0.827 ± 0.000 χ^2/NDF : 10936458870.4/16

Left Out: -0.946 ± 0.000 χ^2/NDF : 79971206437.2/11

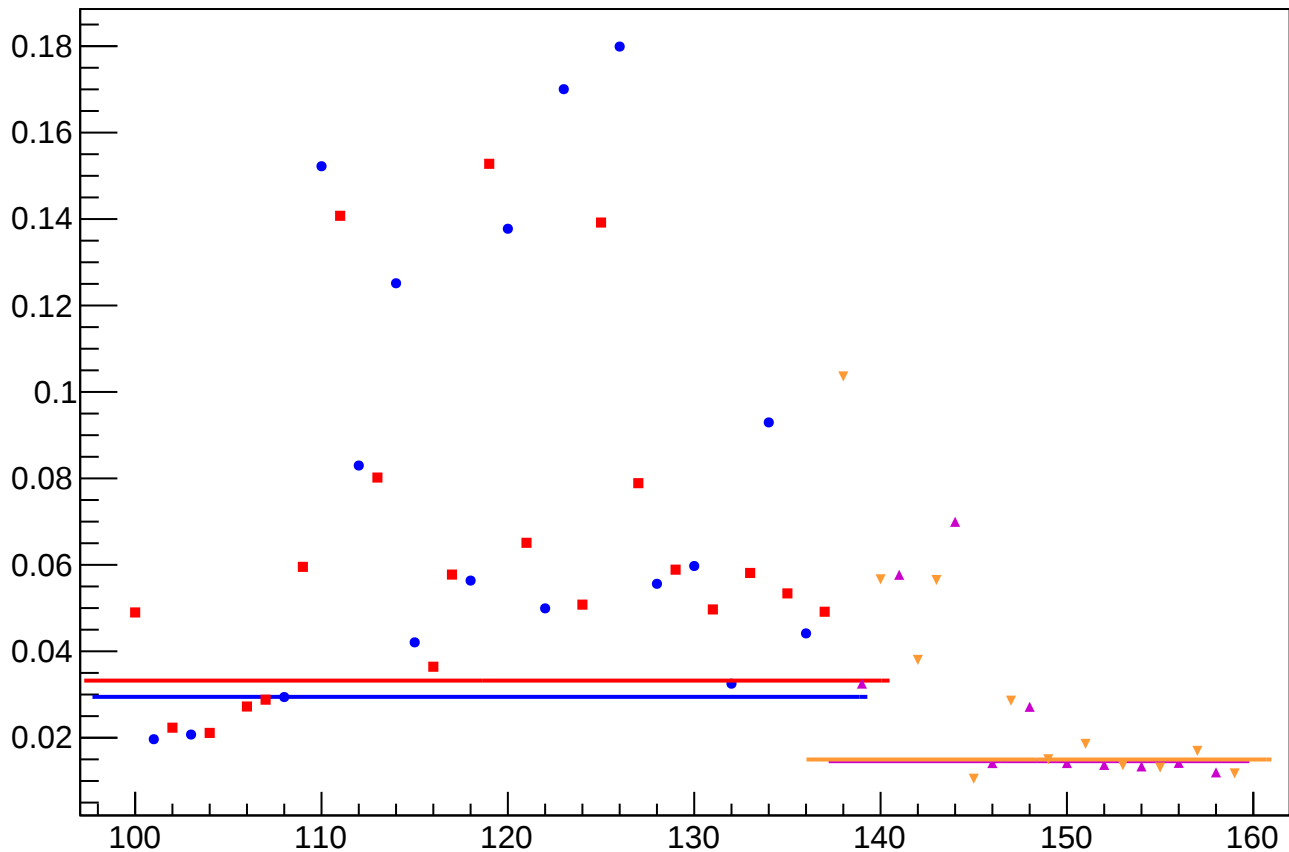
Right Out: 0.369 ± 0.000 χ^2/NDF : 4985860510.0/19

Left In: -0.075 ± 0.000 χ^2/NDF : 207585826188.8/9

-0.720 ± 0.000 χ^2/NDF : 101694948749.3/28

-0.025 ± 0.000 χ^2/NDF : 213185263258.4/29

yield_bpm1Y_rms vs Slug



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.015+/-0.000 χ^2/NDF :2680930.1/11

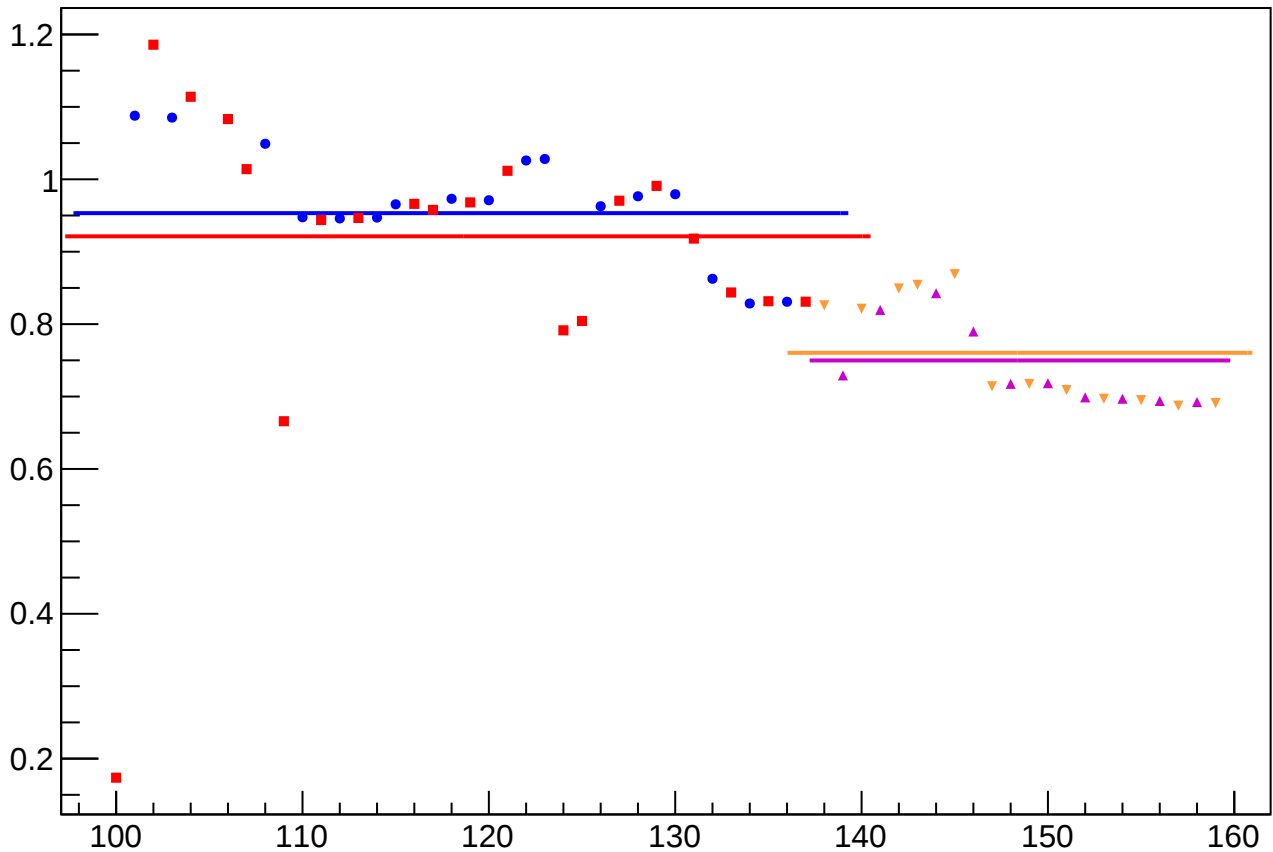
Right Out: 0.033+/-0.000 χ^2/NDF : 3110014.7/19

Left In: 0.015+/-0.000 χ^2/NDF :1753219.4/9

0.017+/-0.000 χ^2/NDF : 7176296.8/28

0.017+/-0.000 χ^2/NDF : 7024696.6/29

yield_bpm11X_mean vs Slug



Right In: 0.953 $\pm$ 0.000 χ^2 /NDF: 175396553.4/16

Left Out: 0.760 $\pm$ 0.000 χ^2 /NDF:222597222.0/11

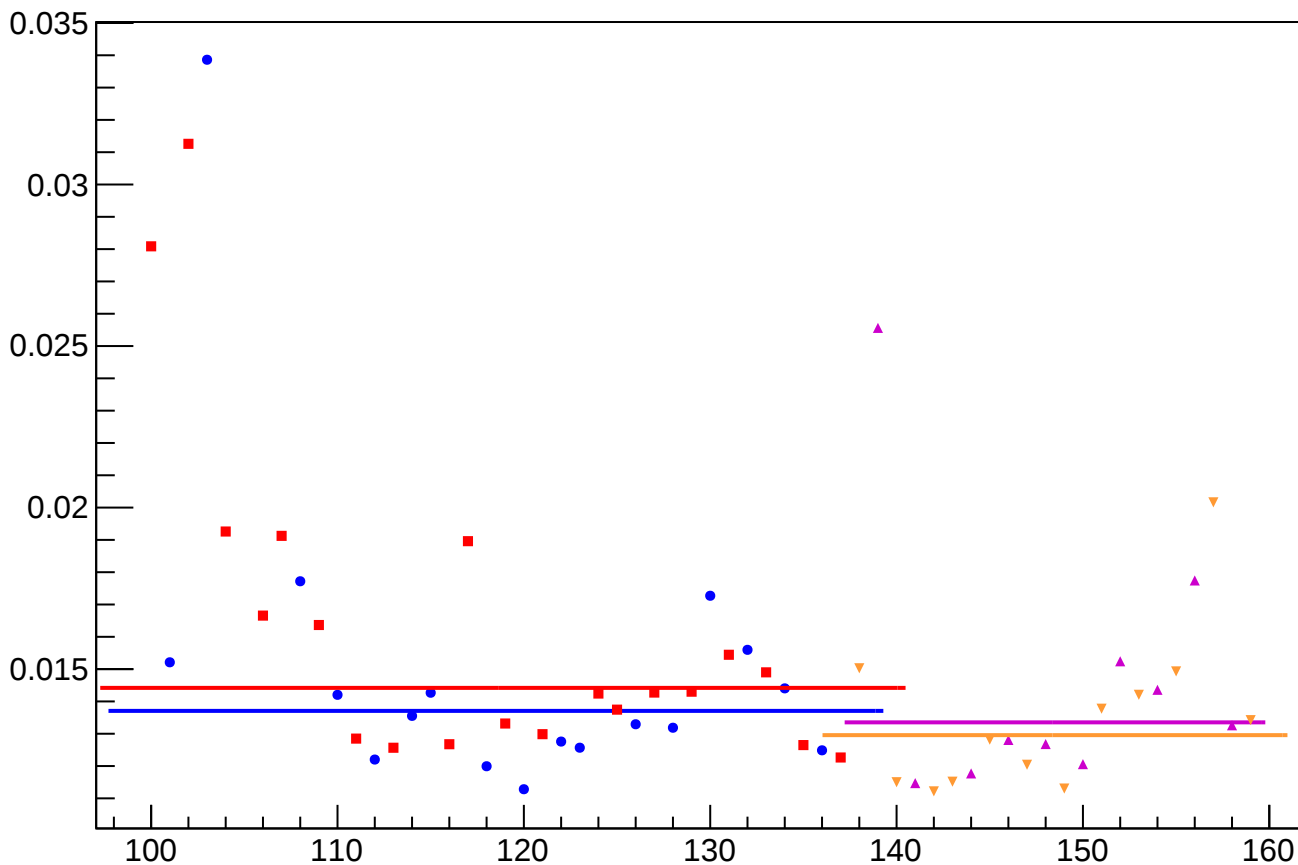
Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 374376205.4/19

Left In: 0.750 $\pm$ 0.000 χ^2 /NDF:130887122.7/9

0.839 $\pm$ 0.000 χ^2 /NDF: 1082697741.8/28

0.823 $\pm$ 0.000 χ^2 /NDF: 1001917135.4/29

yield_bpm11X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 313127.8/11

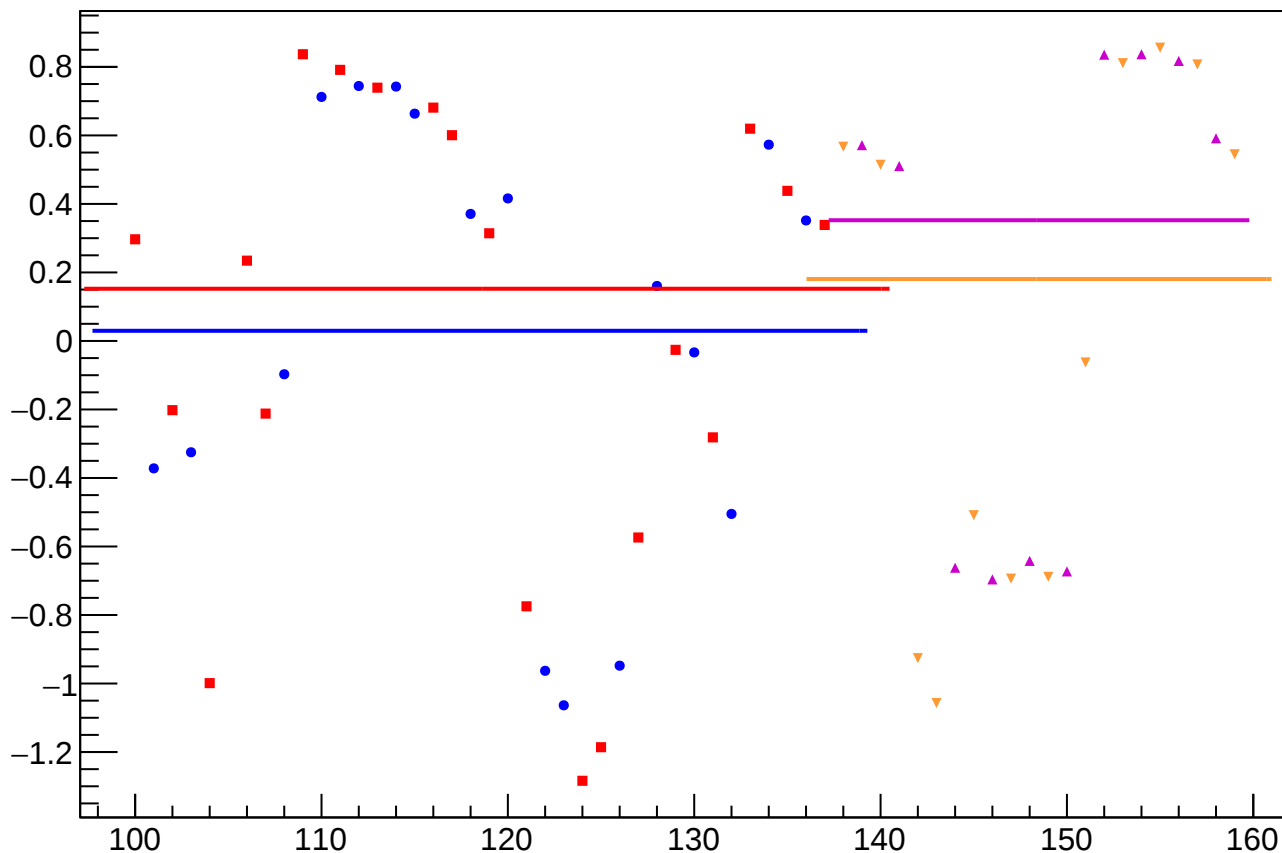
Right Out: 0.014+/-0.000 χ^2/NDF : 506553.4/19

Left In: 0.013+/-0.000 χ^2/NDF : 504145.8/9

0.013+/-0.000 χ^2/NDF : 880206.8/28

0.014+/-0.000 χ^2/NDF : 1049223.5/29

yield_bpm11Y_mean vs Slug



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: 0.181+/-0.000 χ^2/NDF :23127901565.3/11

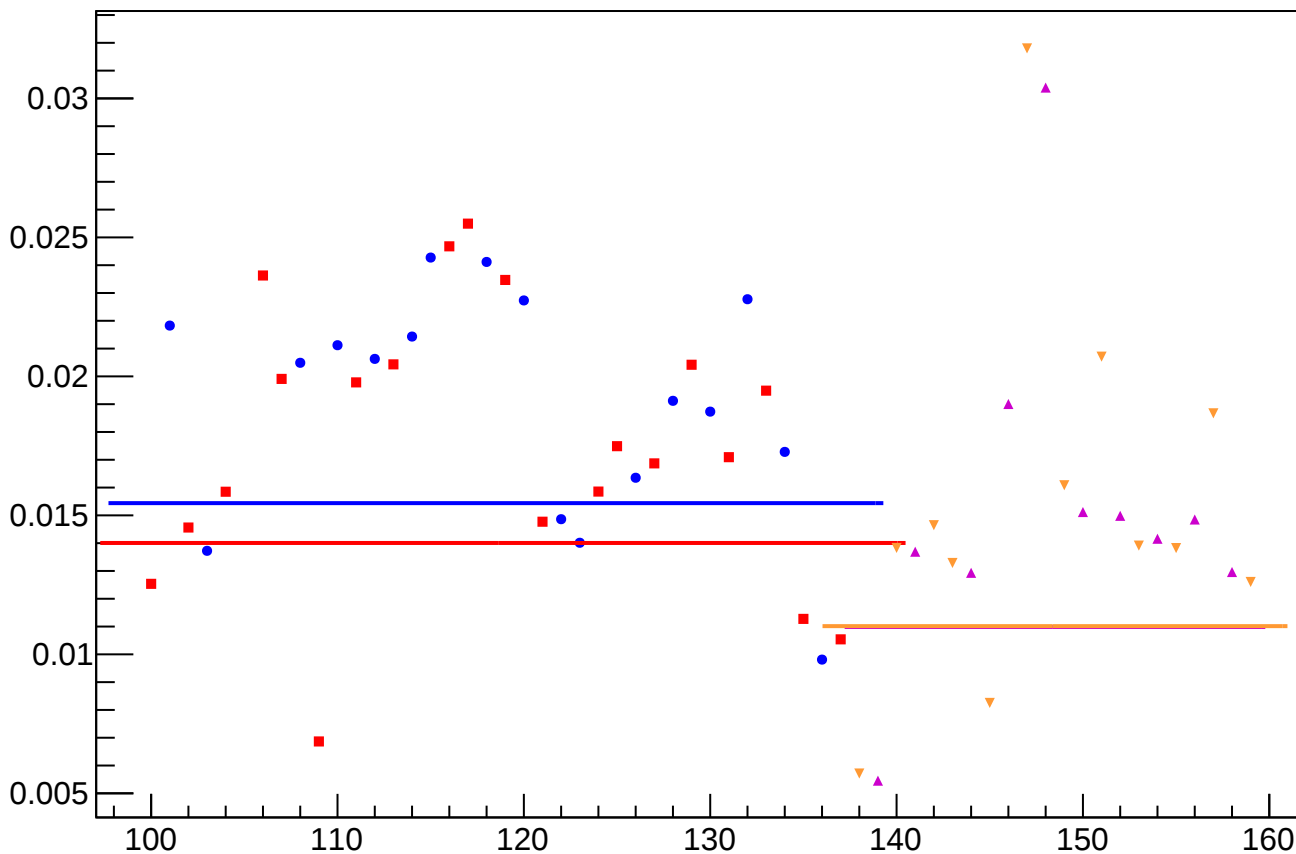
Right Out: 0.152+/-0.000 χ^2/NDF : 12673501089.9/19

Left In: 0.352+/-0.000 χ^2/NDF :15862429313.0/9

0.136+/-0.000 χ^2/NDF : 29805417366.1/28

0.282+/-0.000 χ^2/NDF : 29278032117.4/29

yield_bpm11Y_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.011+/-0.000 χ^2/NDF : 2806679.7/11

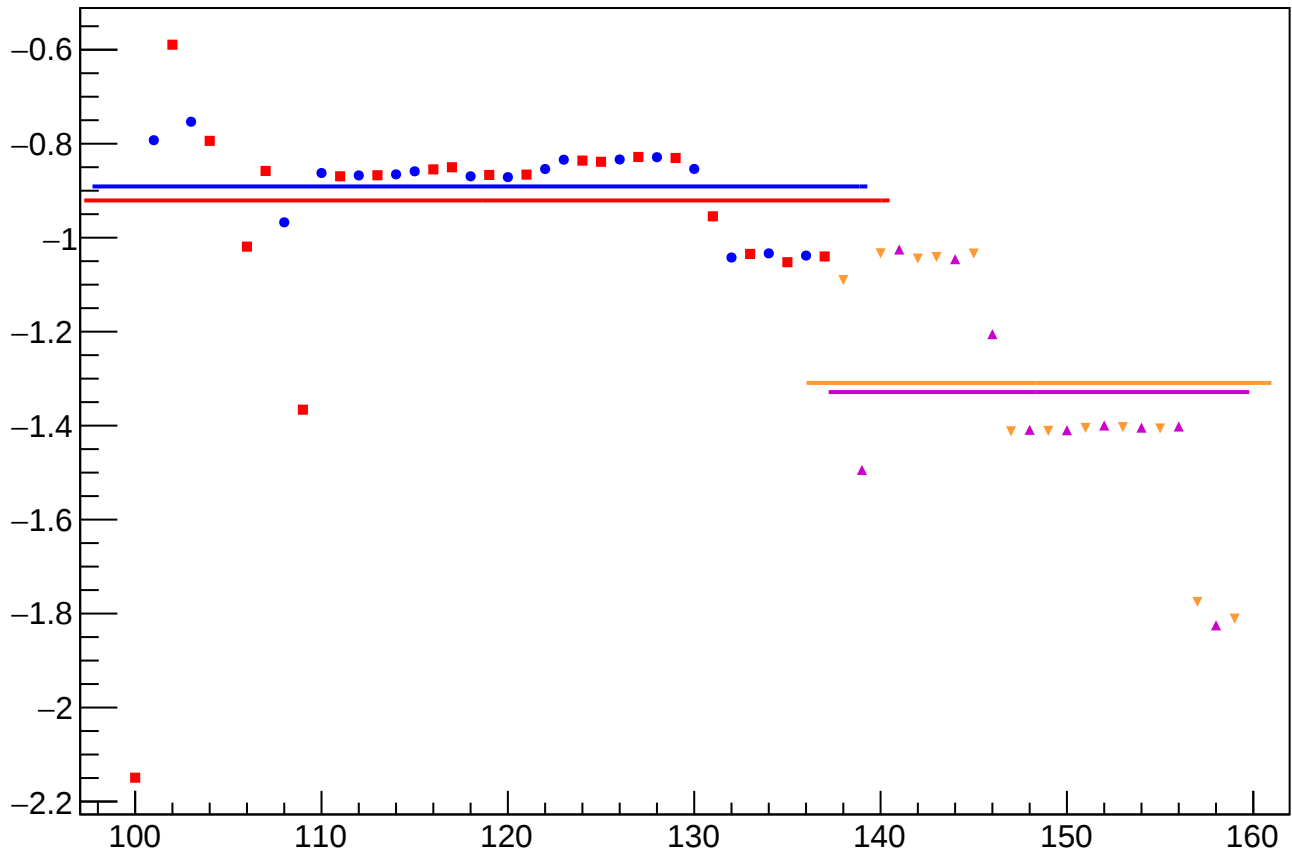
Right Out: 0.014+/-0.000 χ^2/NDF : 1576149.9/19

Left In: 0.011+/-0.000 χ^2/NDF : 2727193.0/9

0.012+/-0.000 χ^2/NDF : 4624731.5/28

0.012+/-0.000 χ^2/NDF : 4642631.5/29

yield_bpm12X_mean vs Slug



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.309+/-0.000 χ^2/NDF : 434721998.2/11

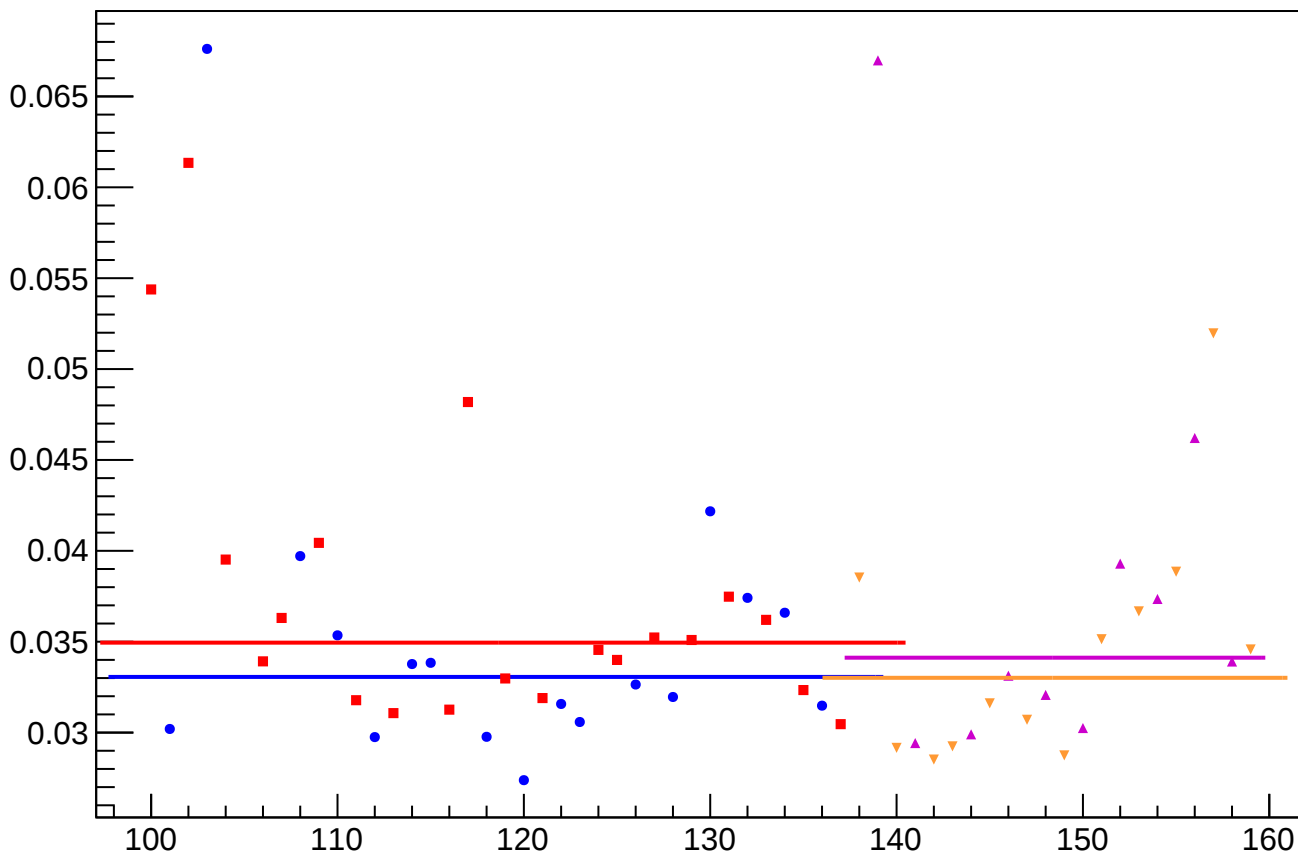
-1.126+/-0.000 χ^2/NDF : 1003145767.4/28

Right Out: -0.921+/-0.000 χ^2/NDF : 131271770.4/19

-1.142+/-0.000 χ^2/NDF : 920456680.9/29

Left In: -1.329+/-0.000 χ^2/NDF : 331022410.9/9

yield_bpm12X_rms vs Slug



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.033+/-0.000 χ^2/NDF : 337454.3/11

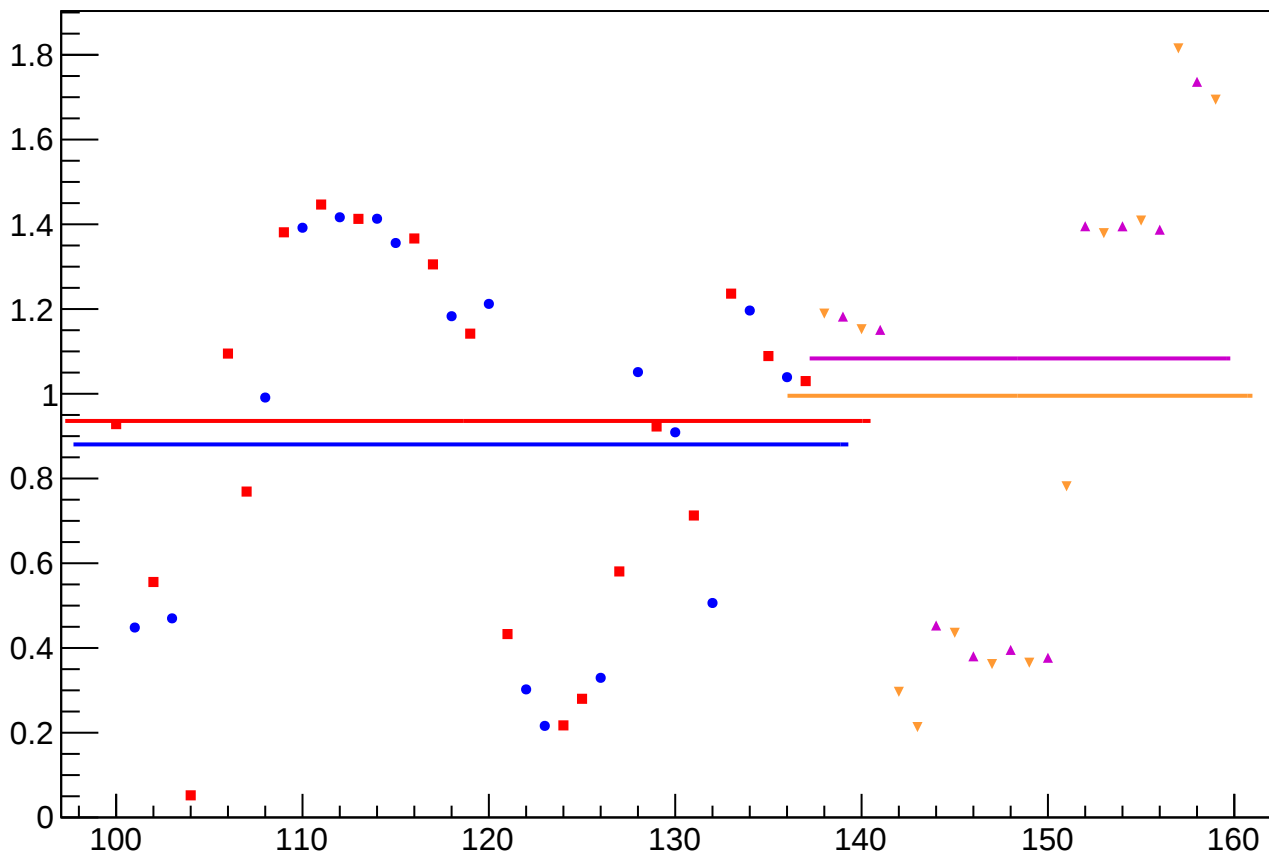
Right Out: 0.035+/-0.000 χ^2/NDF : 280500.4/19

Left In: 0.034+/-0.000 χ^2/NDF : 544579.9/9

0.033+/-0.000 χ^2/NDF : 746755.5/28

0.034+/-0.000 χ^2/NDF : 828857.1/29

yield_bpm12Y_mean vs Slug



Right In: 0.880+/-0.000 χ^2/NDF : 6400108121.4/16

Left Out: 0.995+/-0.000 χ^2/NDF : 27782343770.1/11

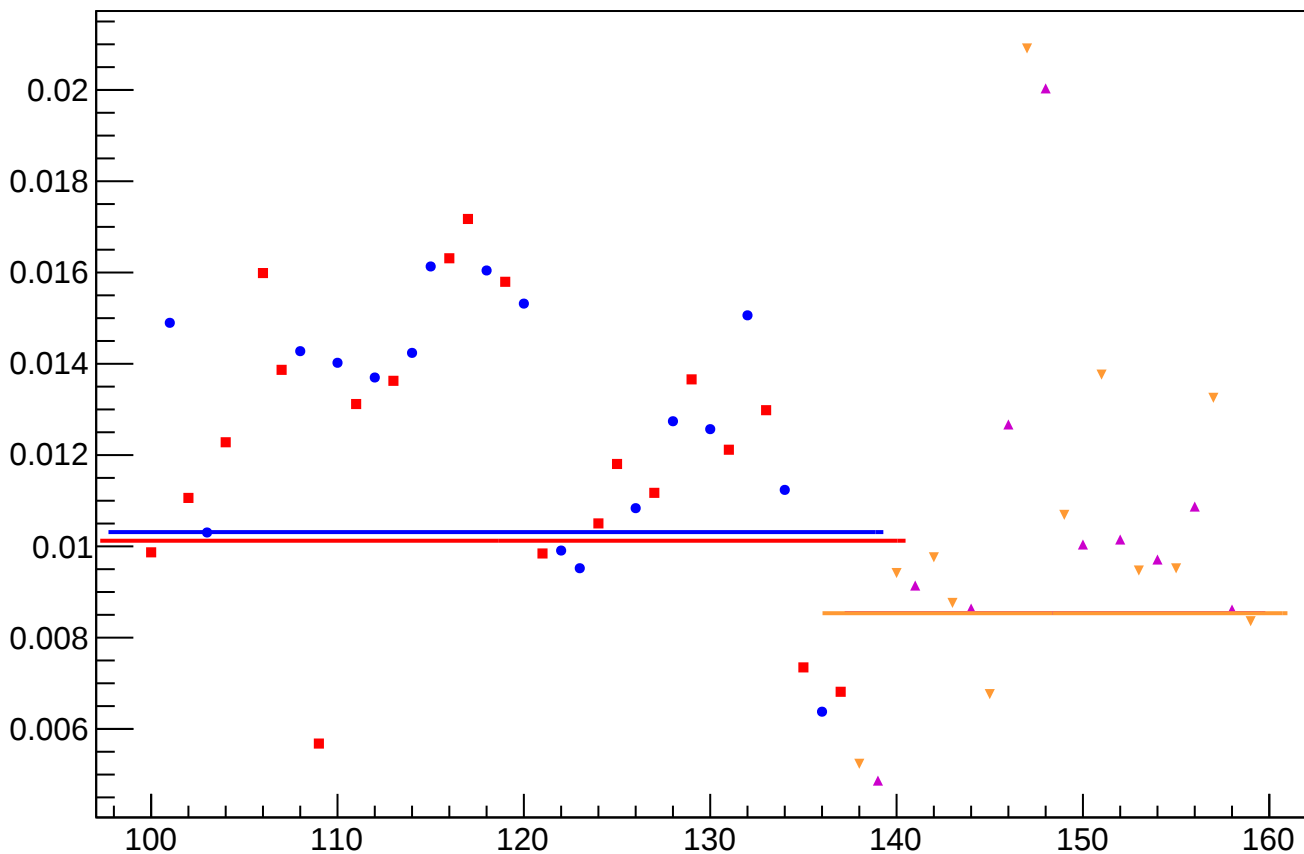
Right Out: 0.936+/-0.000 χ^2/NDF : 9851303698.9/19

Left In: 1.083+/-0.000 χ^2/NDF : 18790429215.2/9

0.957+/-0.000 χ^2/NDF : 34645341185.0/28

1.028+/-0.000 χ^2/NDF : 29421824386.0/29

yield_bpm12Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 1652426.3/11

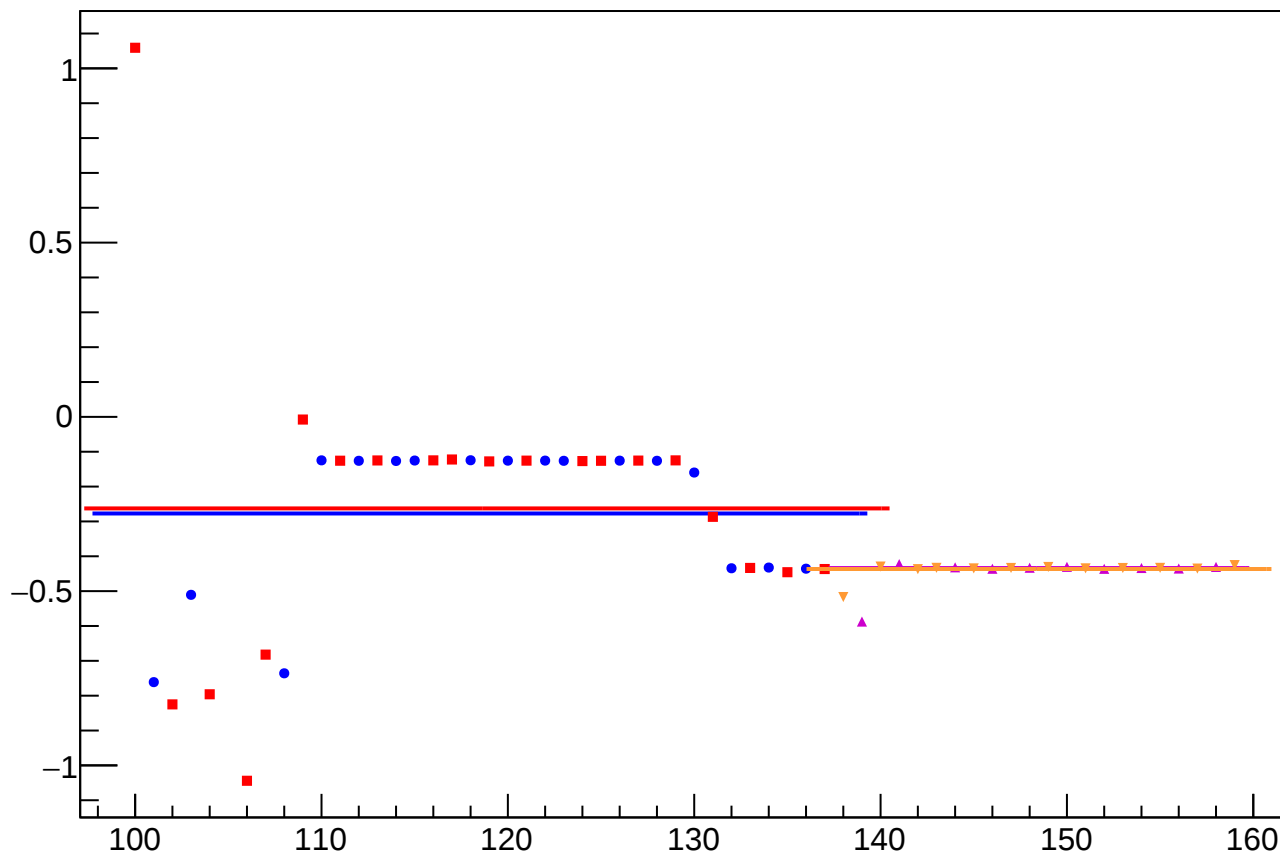
Right Out: 0.010 $\pm$ 0.000 χ^2/NDF : 1191429.9/19

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 1552986.0/9

0.009 $\pm$ 0.000 χ^2/NDF : 3105326.8/28

0.009 $\pm$ 0.000 χ^2/NDF : 2924134.2/29

yield_bpm16X_mean vs Slug



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.436 ± 0.000 χ^2/NDF : 25403158.5/11

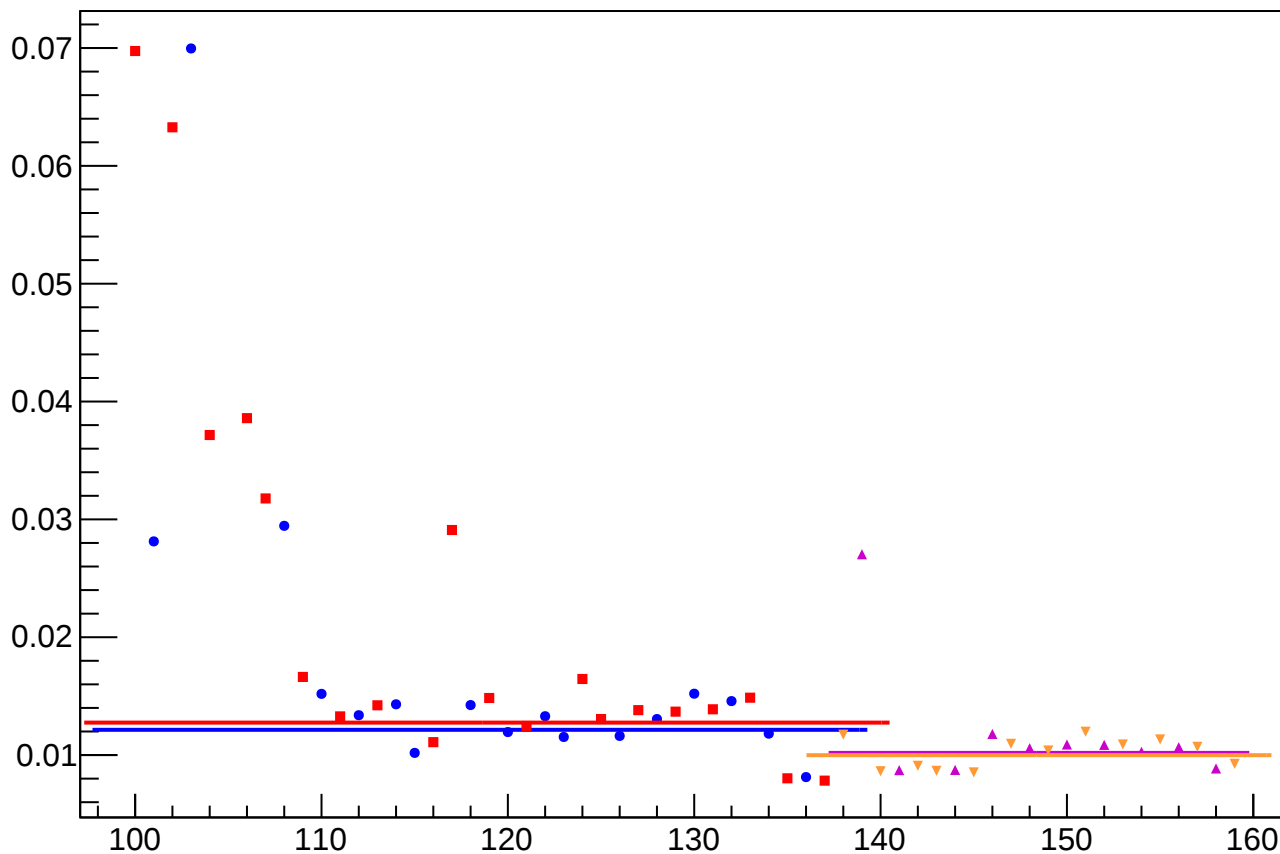
Right Out: -0.263 ± 0.000 χ^2/NDF : 1009303829.9/19

Left In: -0.434 ± 0.000 χ^2/NDF : 22796822.0/9

-0.388 ± 0.000 χ^2/NDF : 1529581712.3/28

-0.379 ± 0.000 χ^2/NDF : 1626973381.2/29

yield_bpm16X_rms vs Slug



Right In: 0.012+/-0.000 χ^2/NDF : 1727494.7/16

Left Out: 0.010+/-0.000 χ^2/NDF : 210191.3/11

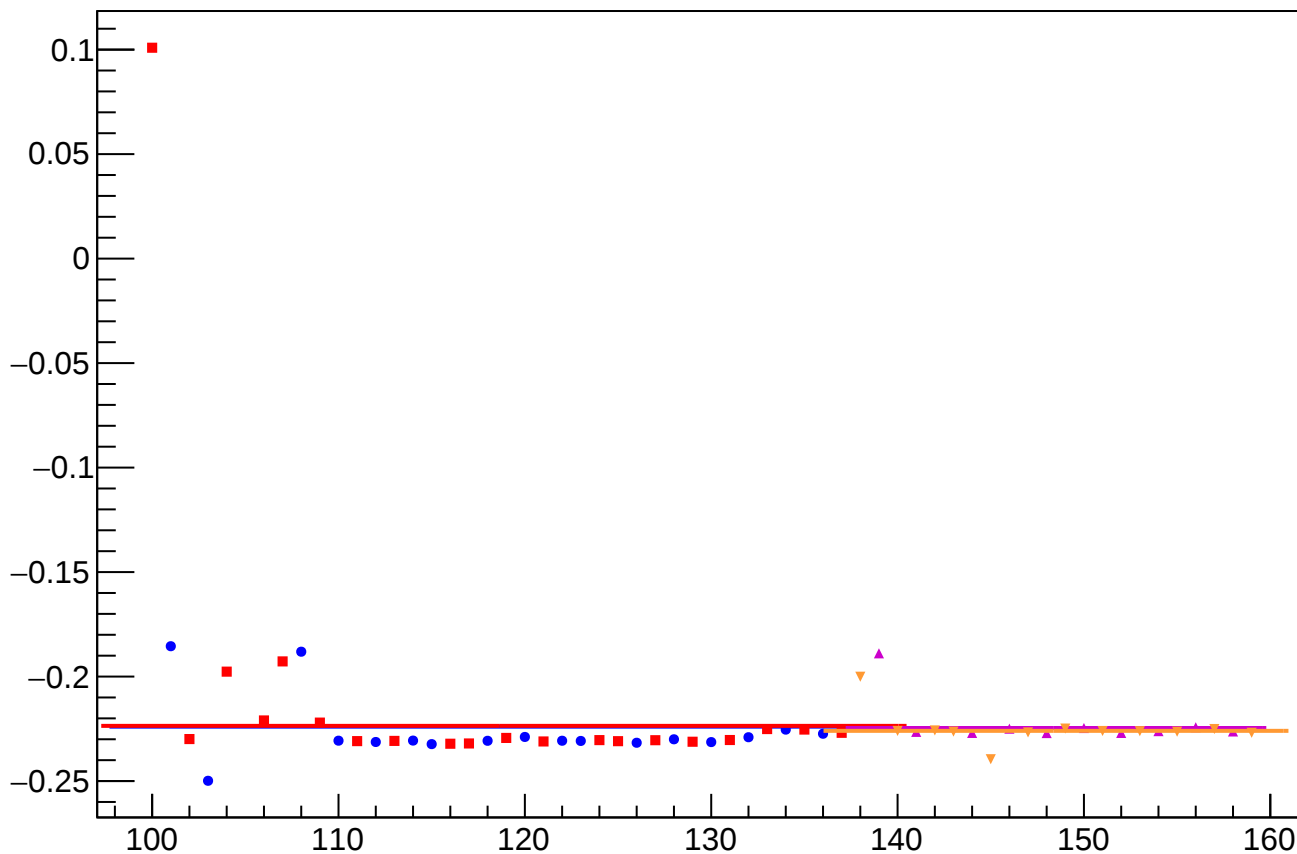
Right Out: 0.013+/-0.000 χ^2/NDF : 1993726.2/19

Left In: 0.010+/-0.000 χ^2/NDF : 662457.5/9

0.011+/-0.000 χ^2/NDF : 2143570.8/28

0.011+/-0.000 χ^2/NDF : 2924851.2/29

yield_bpm16Y_mean vs Slug



Right In: -0.224+/-0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226+/-0.000 χ^2/NDF : 20563288.2/11

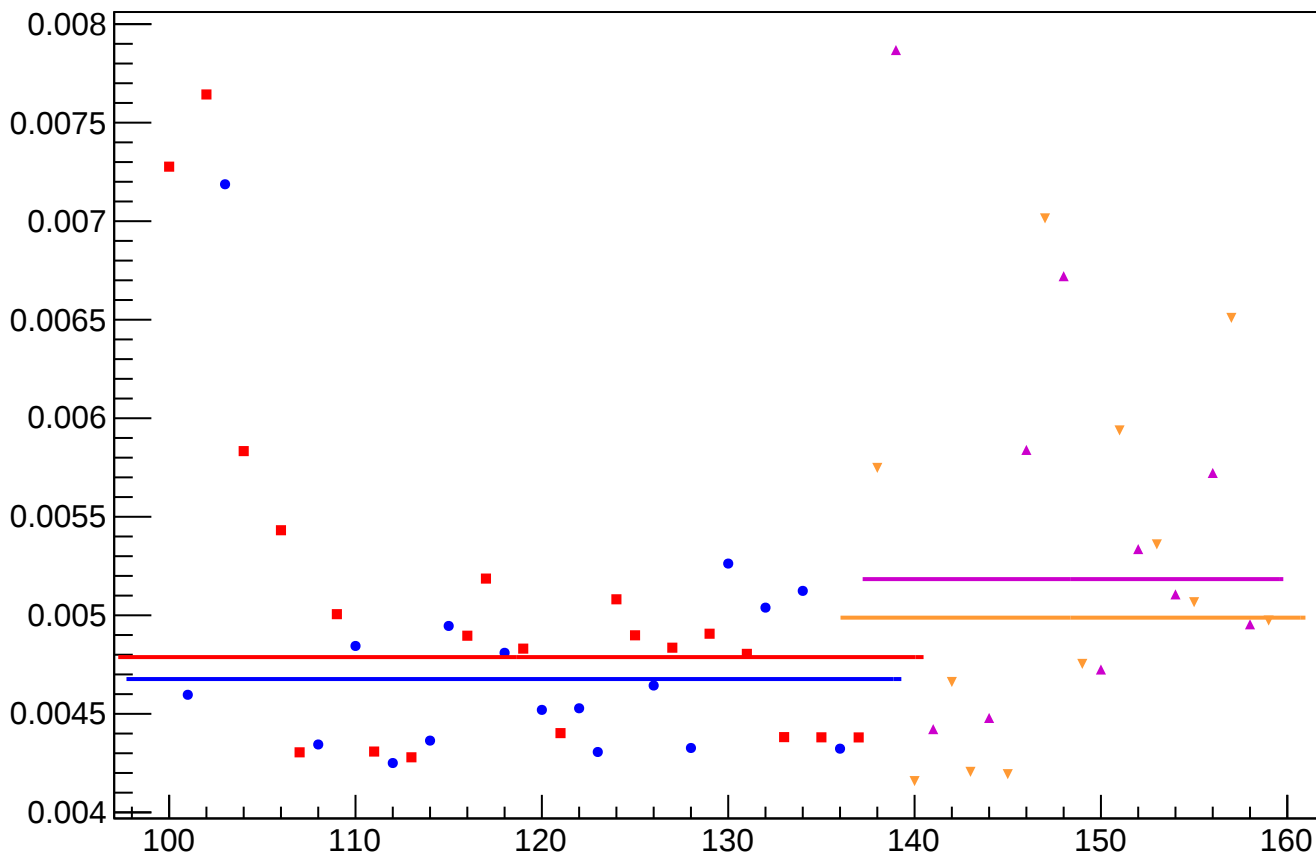
Right Out: -0.224+/-0.000 χ^2/NDF : 168231258.4/19

Left In: -0.225+/-0.000 χ^2/NDF : 14018108.6/9

-0.225+/-0.000 χ^2/NDF : 95880632.1/28

-0.224+/-0.000 χ^2/NDF : 182395528.2/29

yield_bpm16Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 424101.4/11

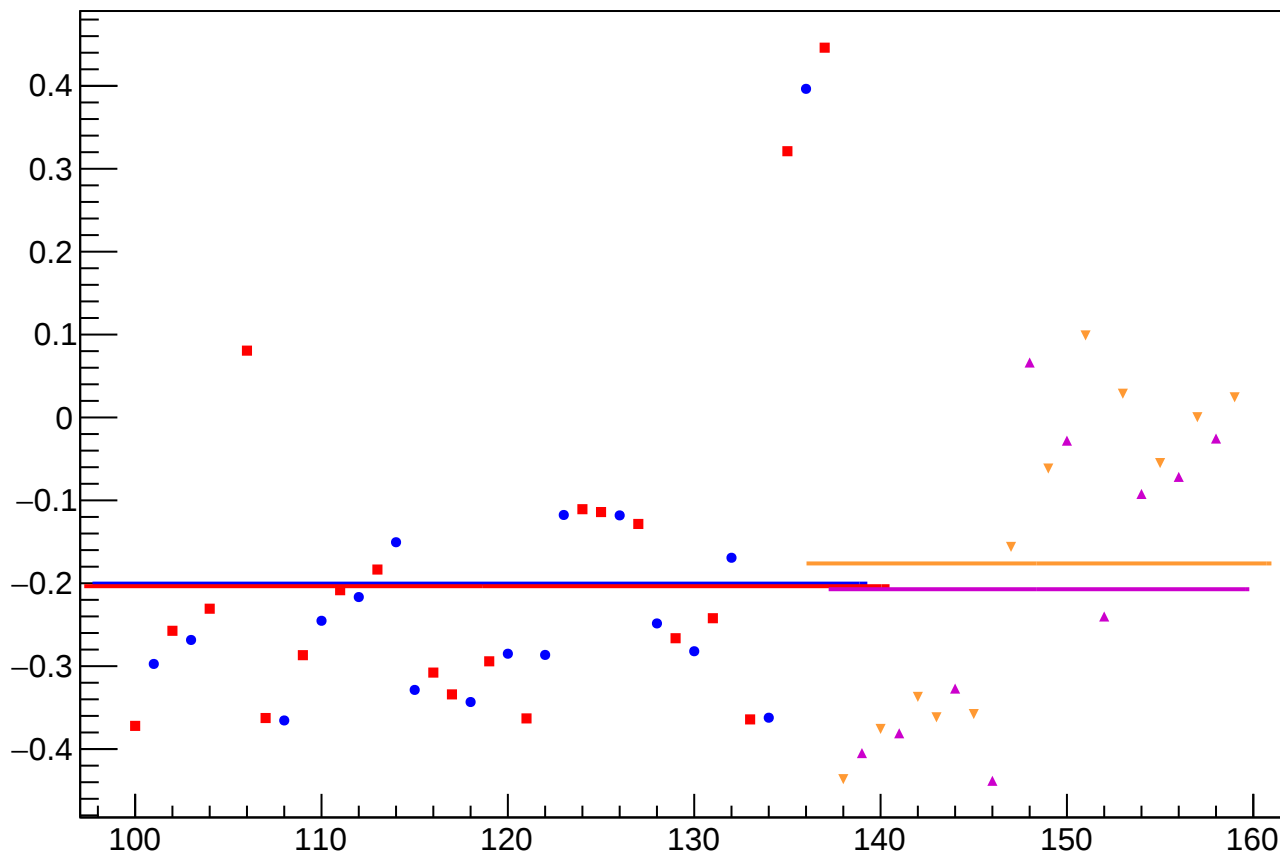
Right Out: 0.005+/-0.000 χ^2/NDF : 248668.3/19

Left In: 0.005+/-0.000 χ^2/NDF : 366177.5/9

0.005+/-0.000 χ^2/NDF : 634480.1/28

0.005+/-0.000 χ^2/NDF : 658683.6/29

yield_bpm0i02X_mean vs Slug



Right In: -0.200 ± 0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.176 ± 0.000 χ^2/NDF : 10352343758.2/11

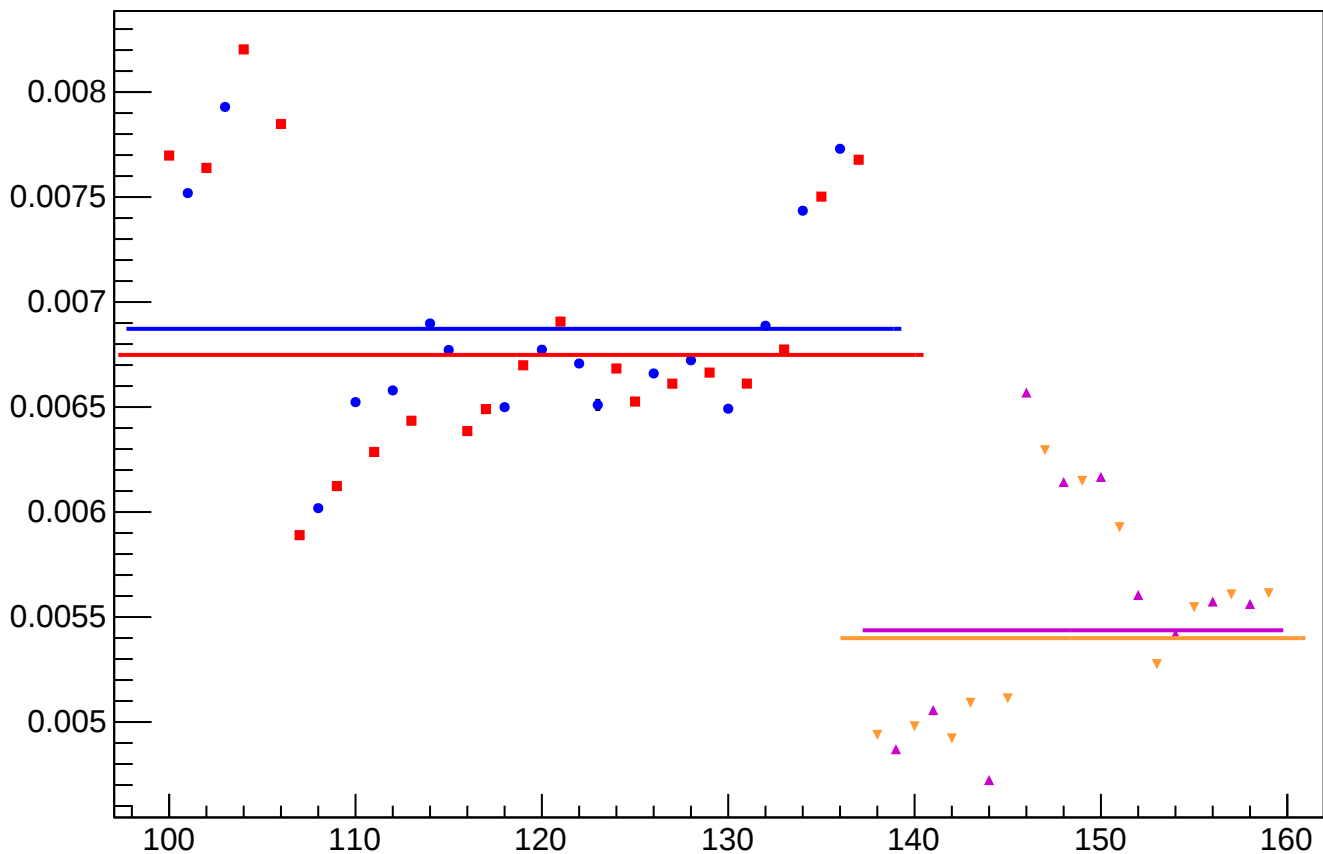
Right Out: -0.204 ± 0.000 χ^2/NDF : 5045878528.0/19

Left In: -0.207 ± 0.000 χ^2/NDF : 7024768180.0/9

-0.184 ± 0.000 χ^2/NDF : 16381173247.2/28

-0.206 ± 0.000 χ^2/NDF : 12071903214.8/29

yield_bpm0i02X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :104534.2/11

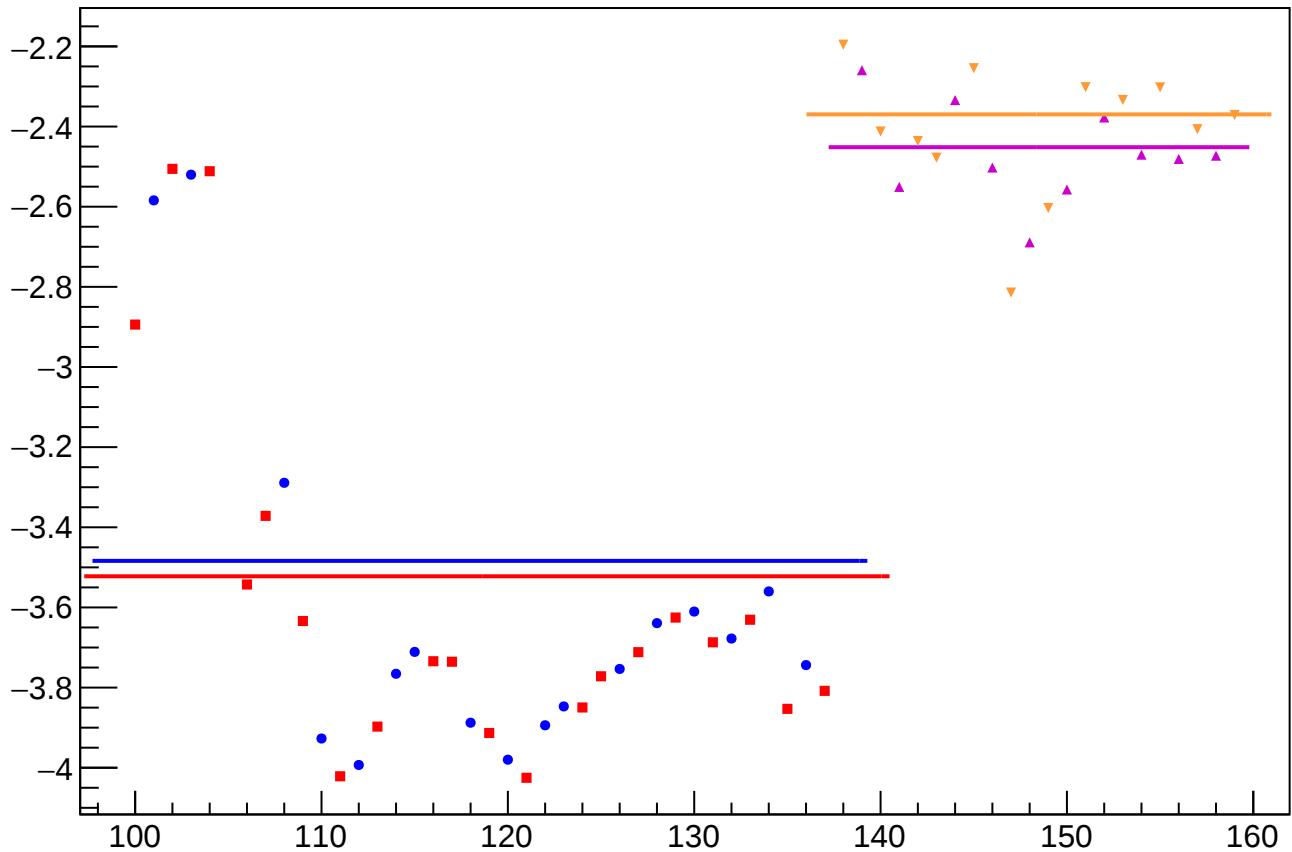
Right Out: 0.007+/-0.000 χ^2/NDF : 105262.1/19

Left In: 0.005+/-0.000 χ^2/NDF :143594.0/9

0.006+/-0.000 χ^2/NDF : 587885.7/28

0.006+/-0.000 χ^2/NDF : 574262.5/29

yield_bpm0i02Y_mean vs Slug



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.370+/-0.000 χ^2/NDF : 1479214183.8/11

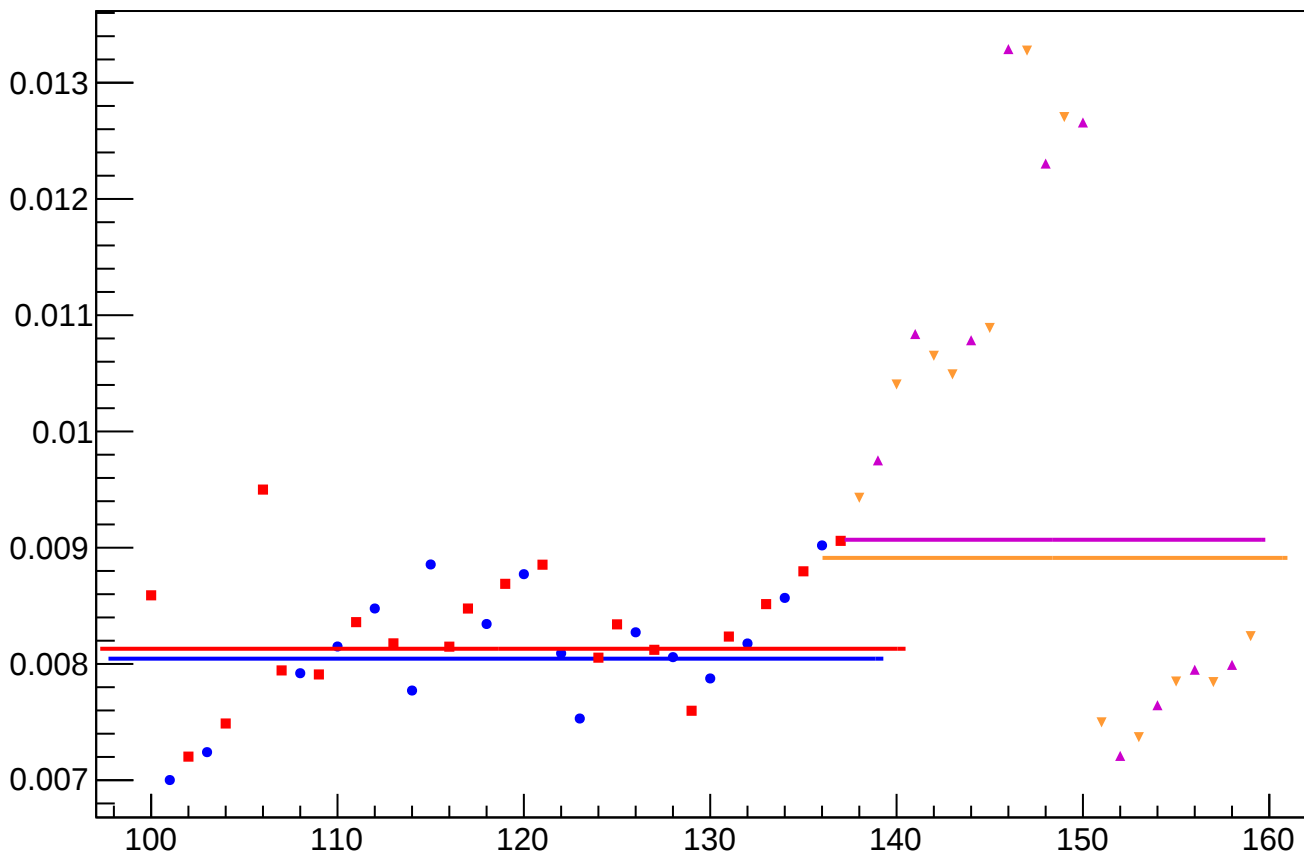
-2.926+/-0.000 χ^2/NDF : 91142252006.2/28

Right Out: -3.522+/-0.000 χ^2/NDF : 26497611752.4/19

-3.030+/-0.000 χ^2/NDF : 81717318580.8/29

Left In: -2.452+/-0.000 χ^2/NDF : 848507161.6/9

yield_bpm0i02Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :566253.2/11

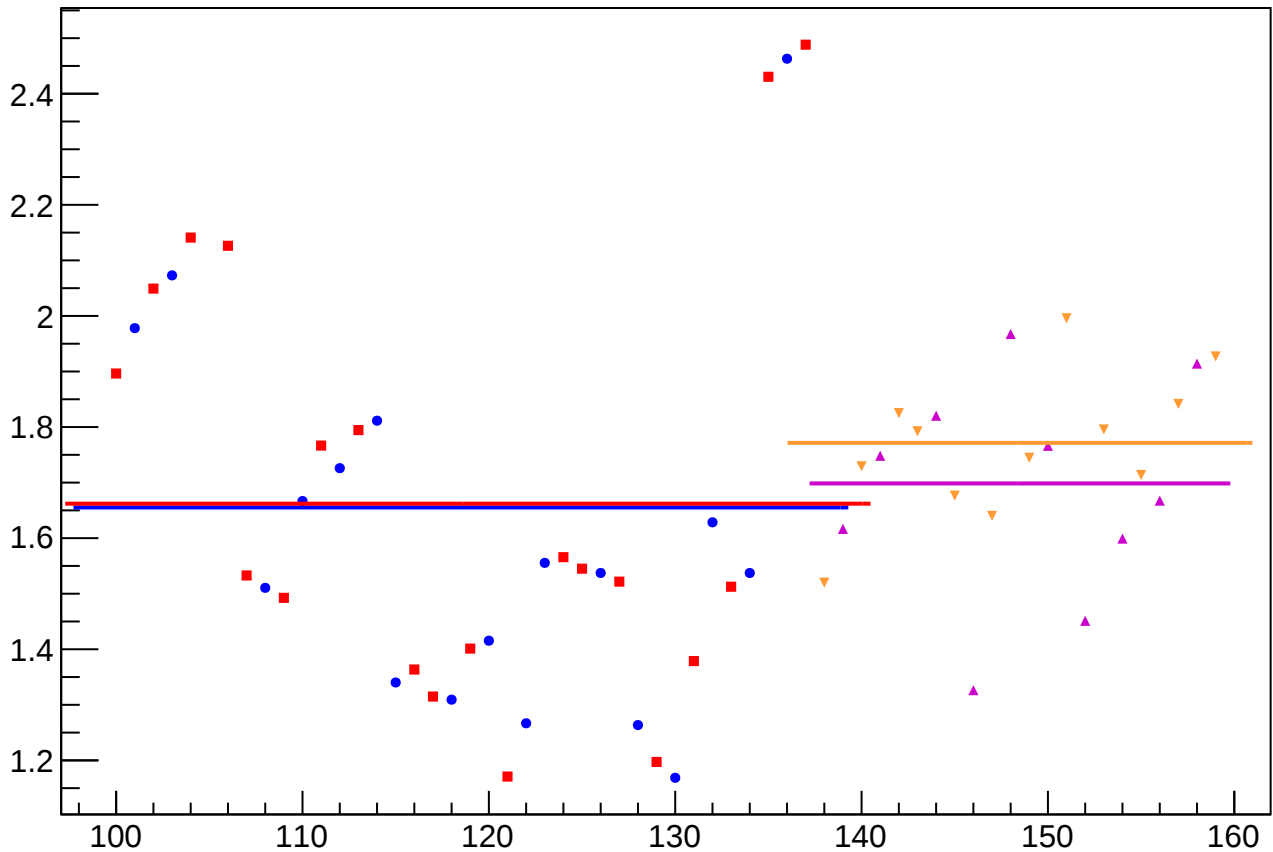
Right Out: 0.008+/-0.000 χ^2/NDF : 57613.2/19

Left In: 0.009+/-0.000 χ^2/NDF :651070.7/9

0.008+/-0.000 χ^2/NDF : 713913.7/28

0.009+/-0.000 χ^2/NDF : 792074.6/29

yield_bpm0i02aX_mean vs Slug



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.772+/-0.000 χ^2/NDF : 1113308938.5/11

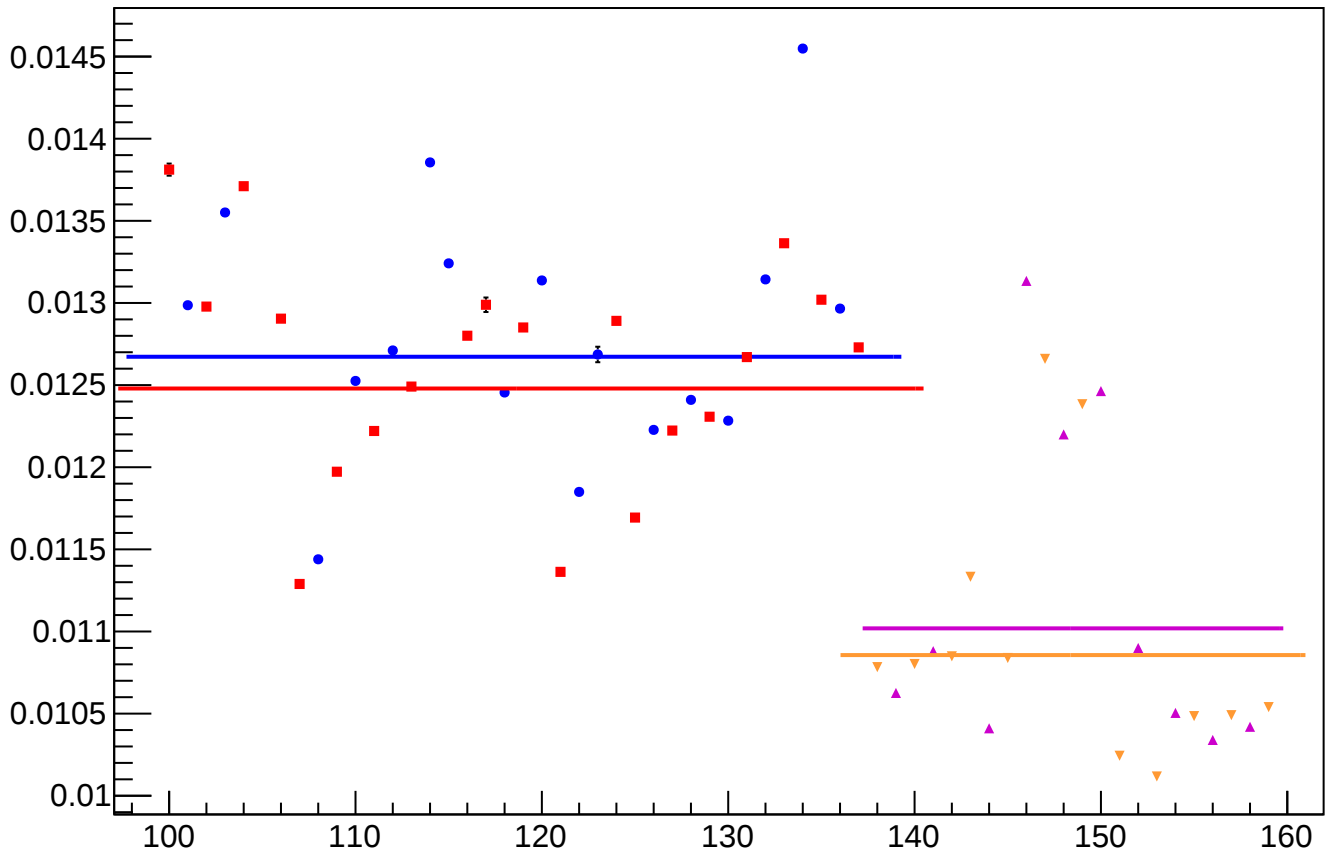
1.729+/-0.000 χ^2/NDF : 7941737899.1/28

Right Out: 1.662+/-0.000 χ^2/NDF : 5975345573.0/19

1.683+/-0.000 χ^2/NDF : 7923313375.0/29

Left In: 1.698+/-0.000 χ^2/NDF : 1913436244.1/9

yield_bpm0i02aX_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 72471.0/11

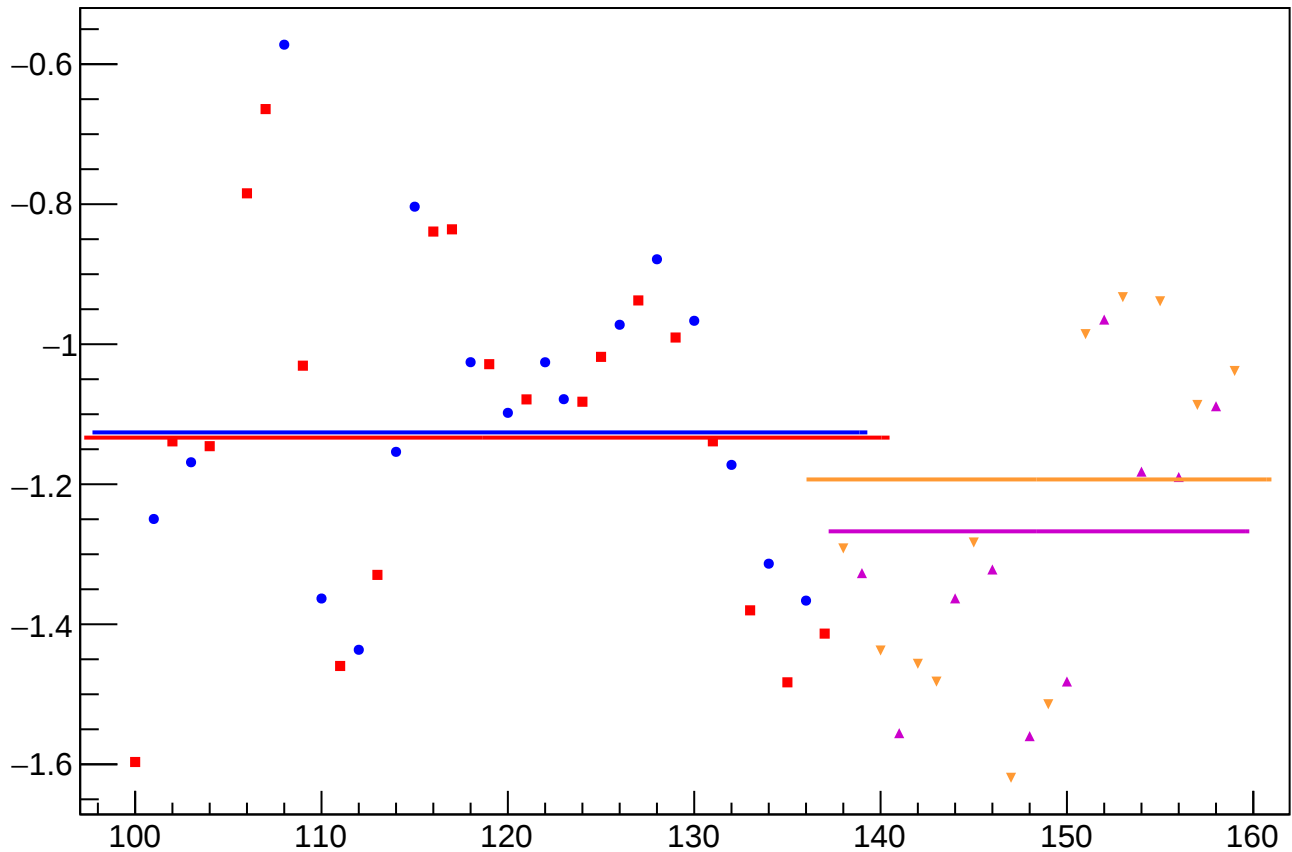
Right Out: 0.012+/-0.000 χ^2/NDF : 39268.9/19

Left In: 0.011+/-0.000 χ^2/NDF : 94595.6/9

0.012+/-0.000 χ^2/NDF : 275999.0/28

0.012+/-0.000 χ^2/NDF : 244820.7/29

yield_bpm0i02aY_mean vs Slug



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.193+/-0.000 χ^2/NDF : 6419589129.5/11

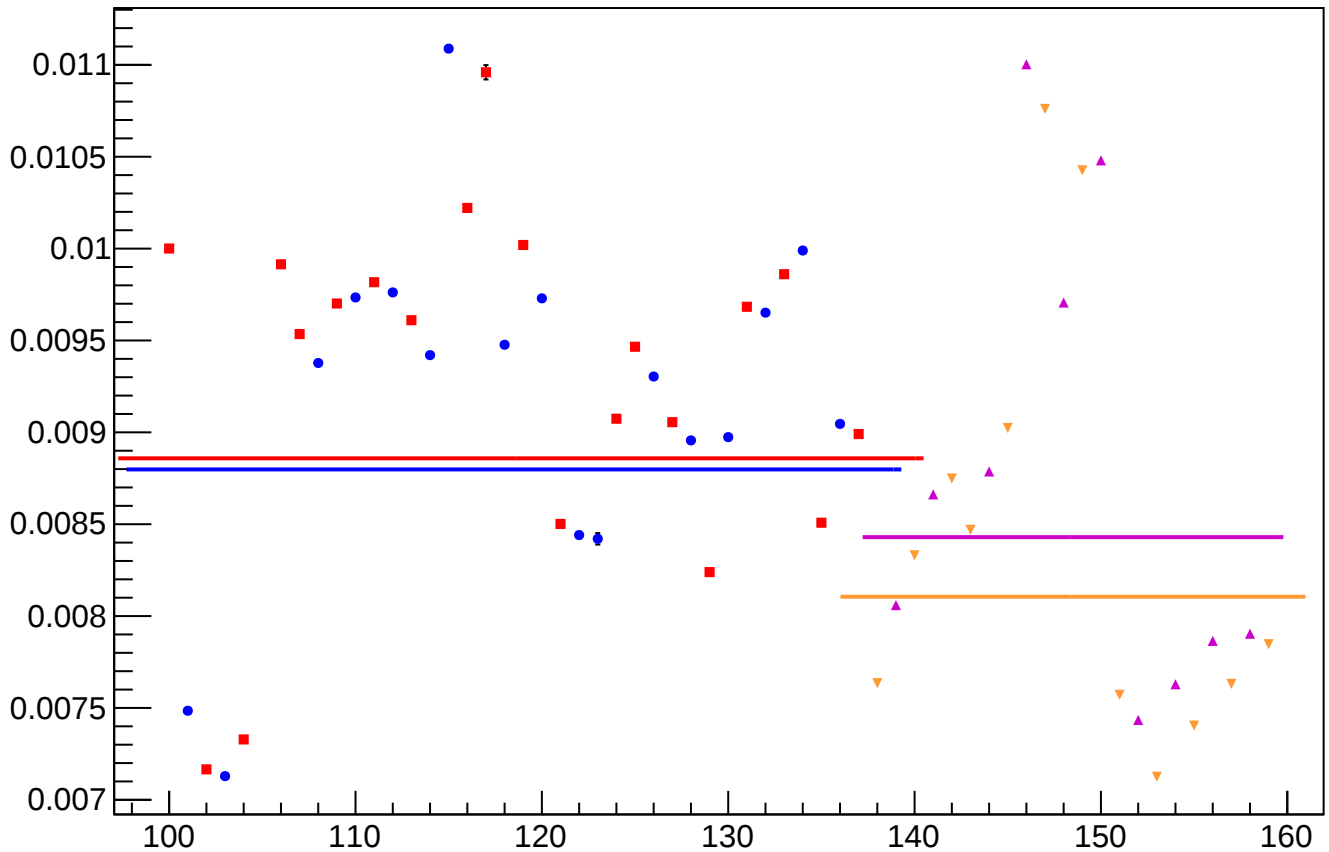
-1.166+/-0.000 χ^2/NDF : 10216531509.9/28

Right Out: -1.133+/-0.000 χ^2/NDF : 3706528266.7/19

-1.207+/-0.000 χ^2/NDF : 8391210022.7/29

Left In: -1.267+/-0.000 χ^2/NDF : 3849054346.0/9

yield_bpm0i02aY_rms vs Slug



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF :224911.2/11

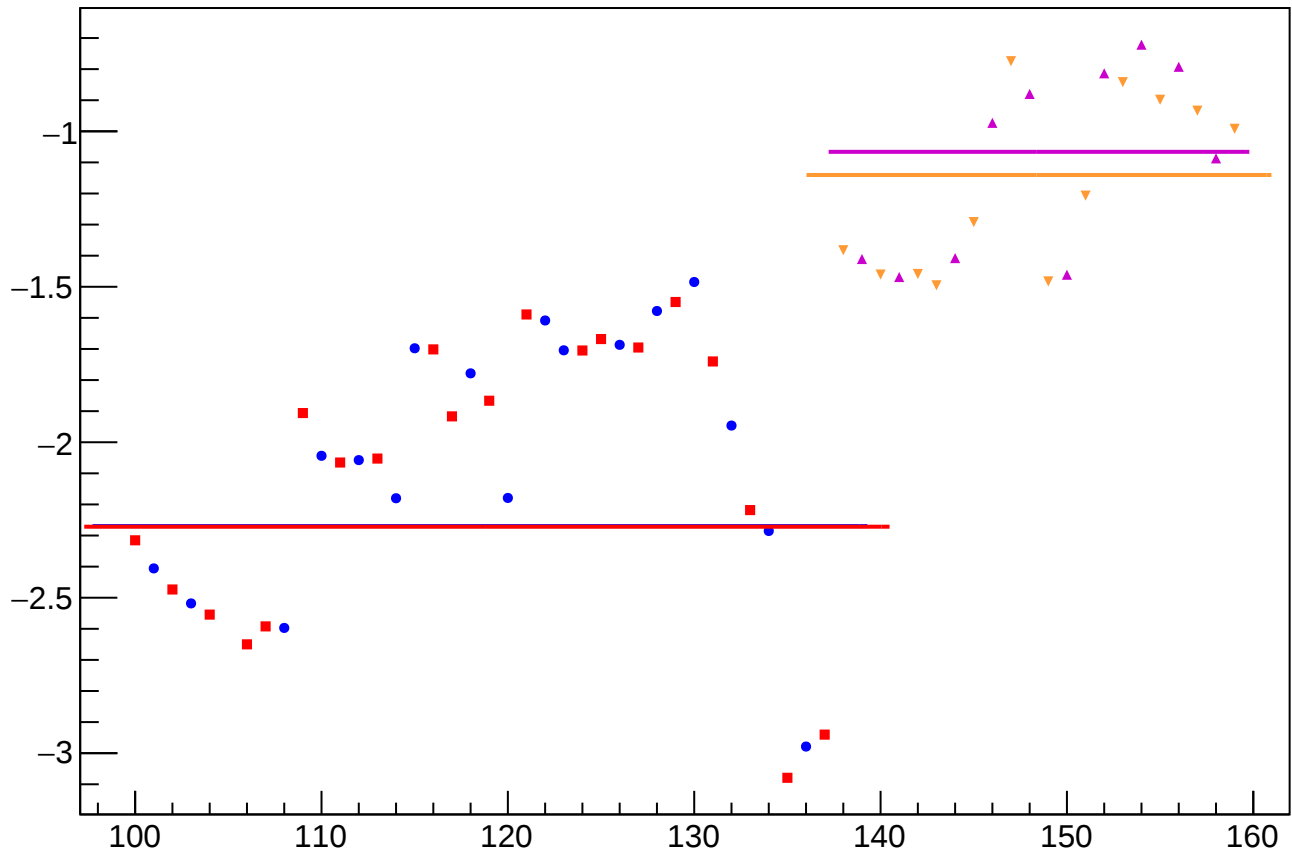
Right Out: 0.009+/-0.000 χ^2/NDF : 176858.0/19

Left In: 0.008+/-0.000 χ^2/NDF :213980.4/9

0.008+/-0.000 χ^2/NDF : 423748.0/28

0.009+/-0.000 χ^2/NDF : 407989.2/29

yield_bpm0i05X_mean vs Slug



Right In: -2.270 $\pm$ 0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.140 $\pm$ 0.000 χ^2/NDF : 11598804650.5/11

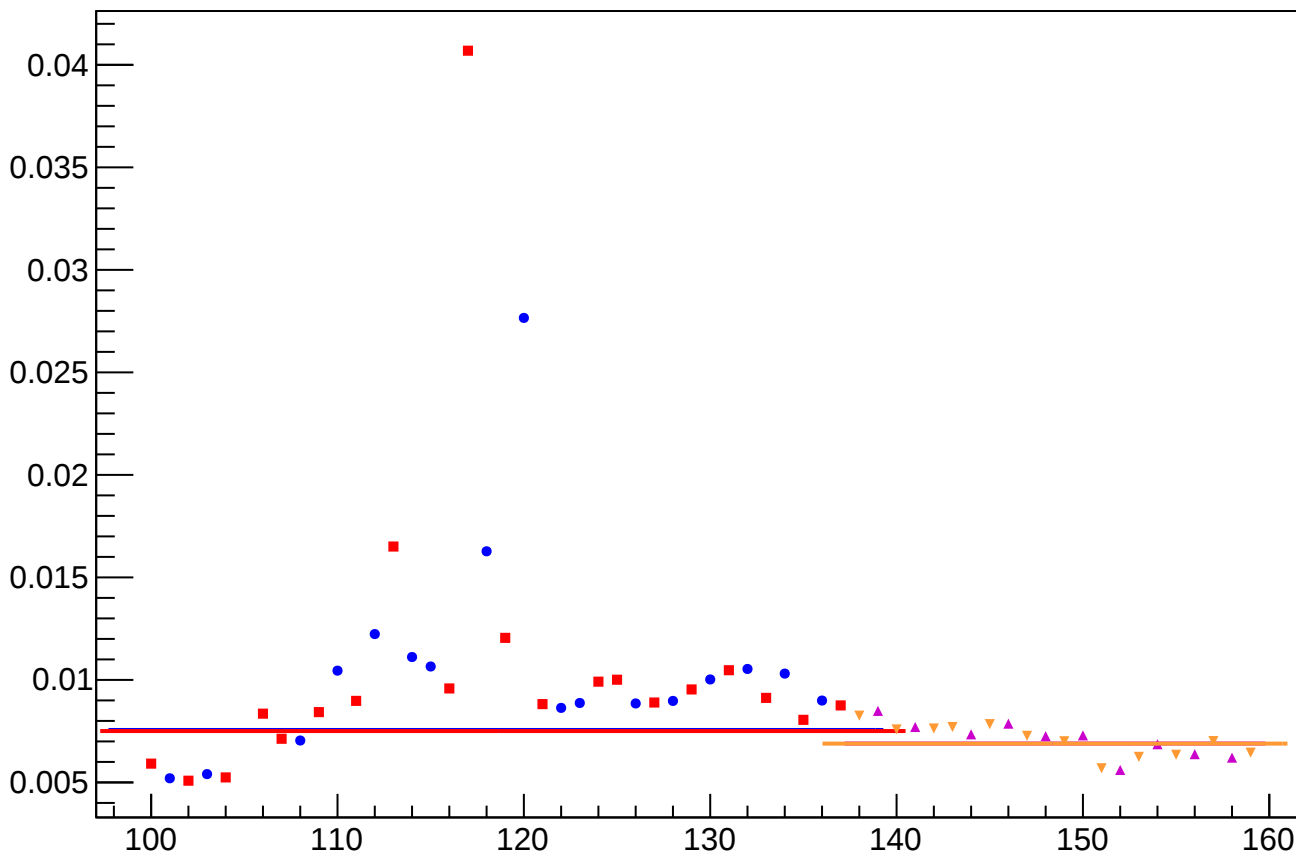
Right Out: -2.272 $\pm$ 0.000 χ^2/NDF : 19012236430.2/19

Left In: -1.066 $\pm$ 0.000 χ^2/NDF : 12773991463.4/9

-1.527 $\pm$ 0.000 χ^2/NDF : 102922692445.6/28

-1.535 $\pm$ 0.000 χ^2/NDF : 120239064651.1/29

yield_bpm0i05X_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :186909.7/11

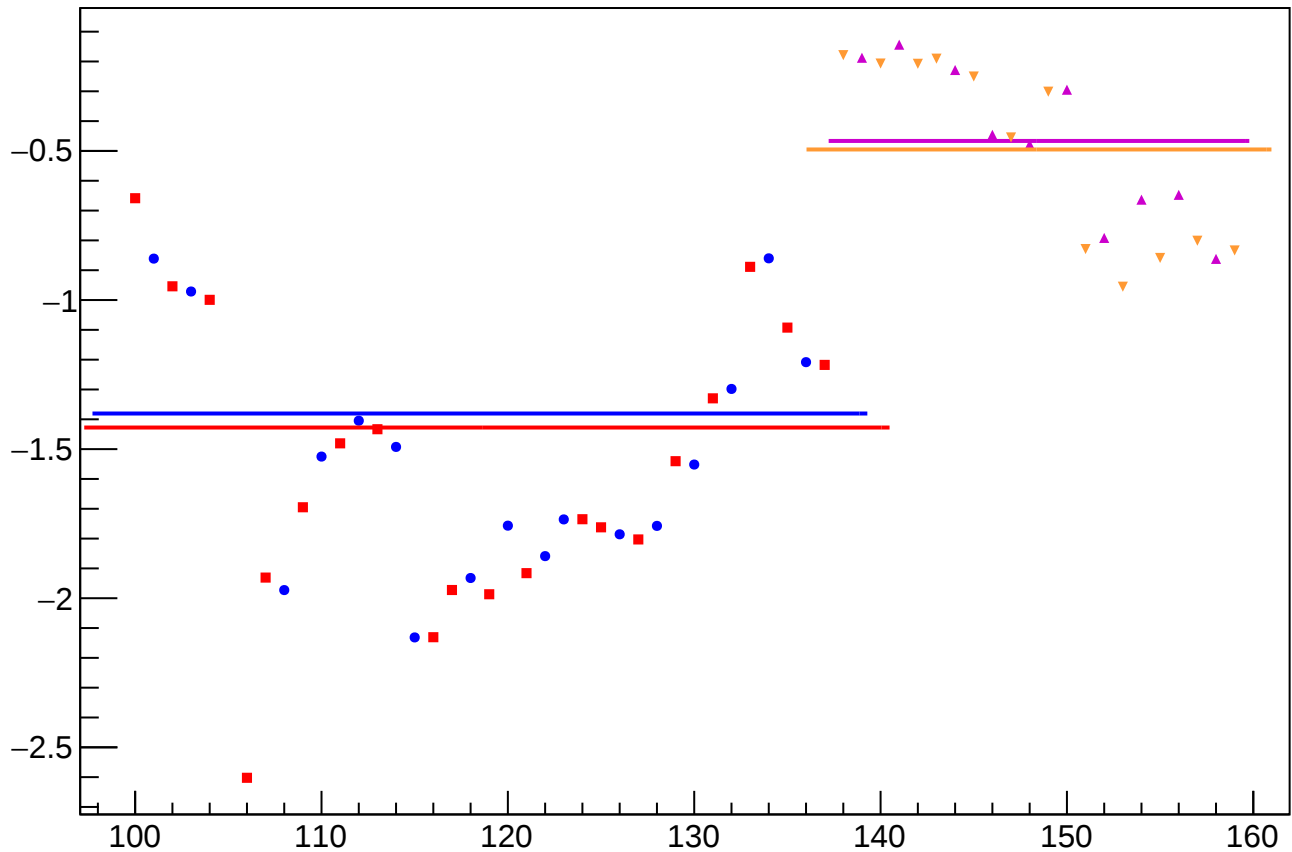
Right Out: 0.008+/-0.000 χ^2/NDF : 984811.6/19

Left In: 0.007+/-0.000 χ^2/NDF :208006.2/9

0.007+/-0.000 χ^2/NDF : 1459232.6/28

0.007+/-0.000 χ^2/NDF : 1237947.9/29

yield_bpm0i05Y_mean vs Slug



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.495+/-0.000 χ^2/NDF : 42638362118.9/11

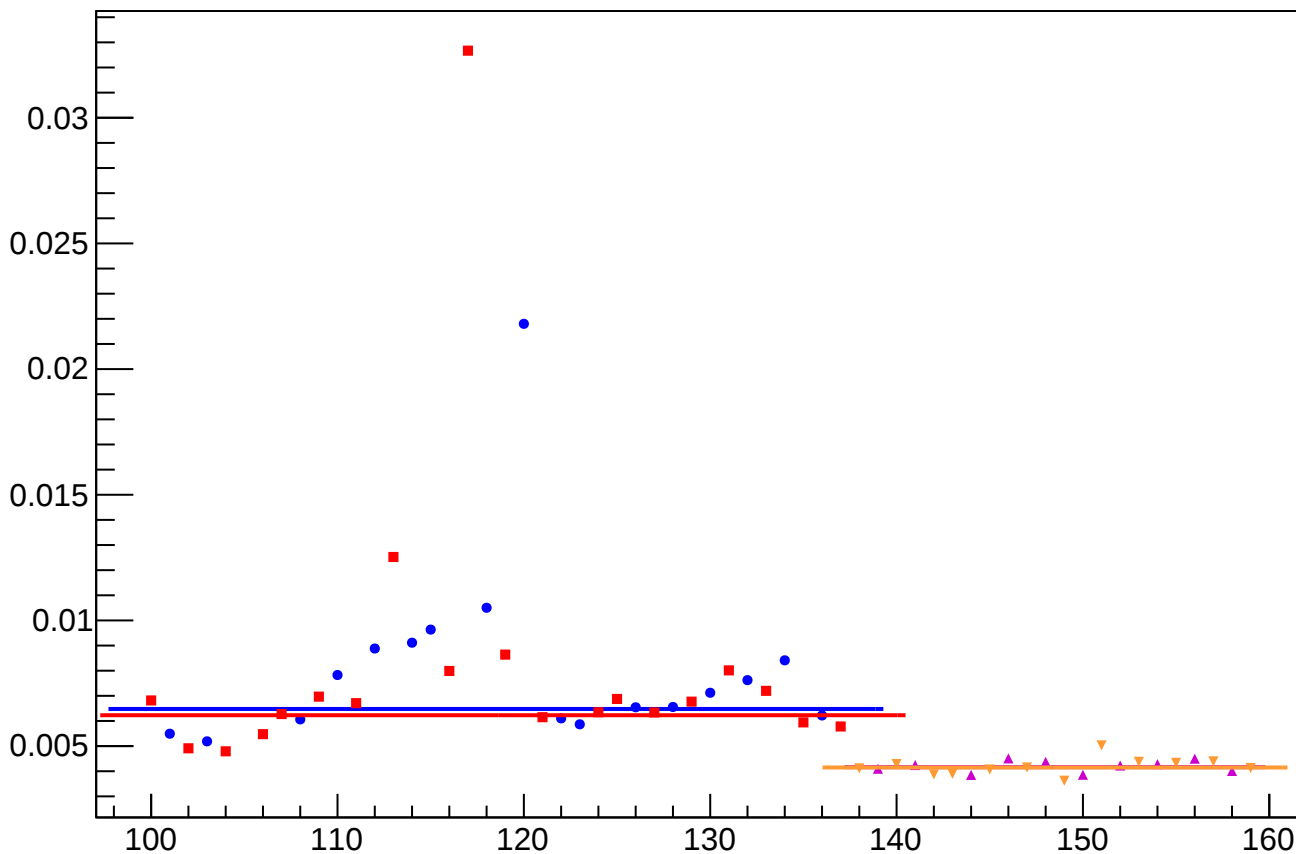
-0.689+/-0.000 χ^2/NDF : 142087636270.2/28

Right Out: -1.428+/-0.000 χ^2/NDF : 29626603581.6/19

-0.722+/-0.000 χ^2/NDF : 159496256431.6/29

Left In: -0.466+/-0.000 χ^2/NDF : 26763169302.9/9

yield_bpm0i05Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF : 87263.8/11

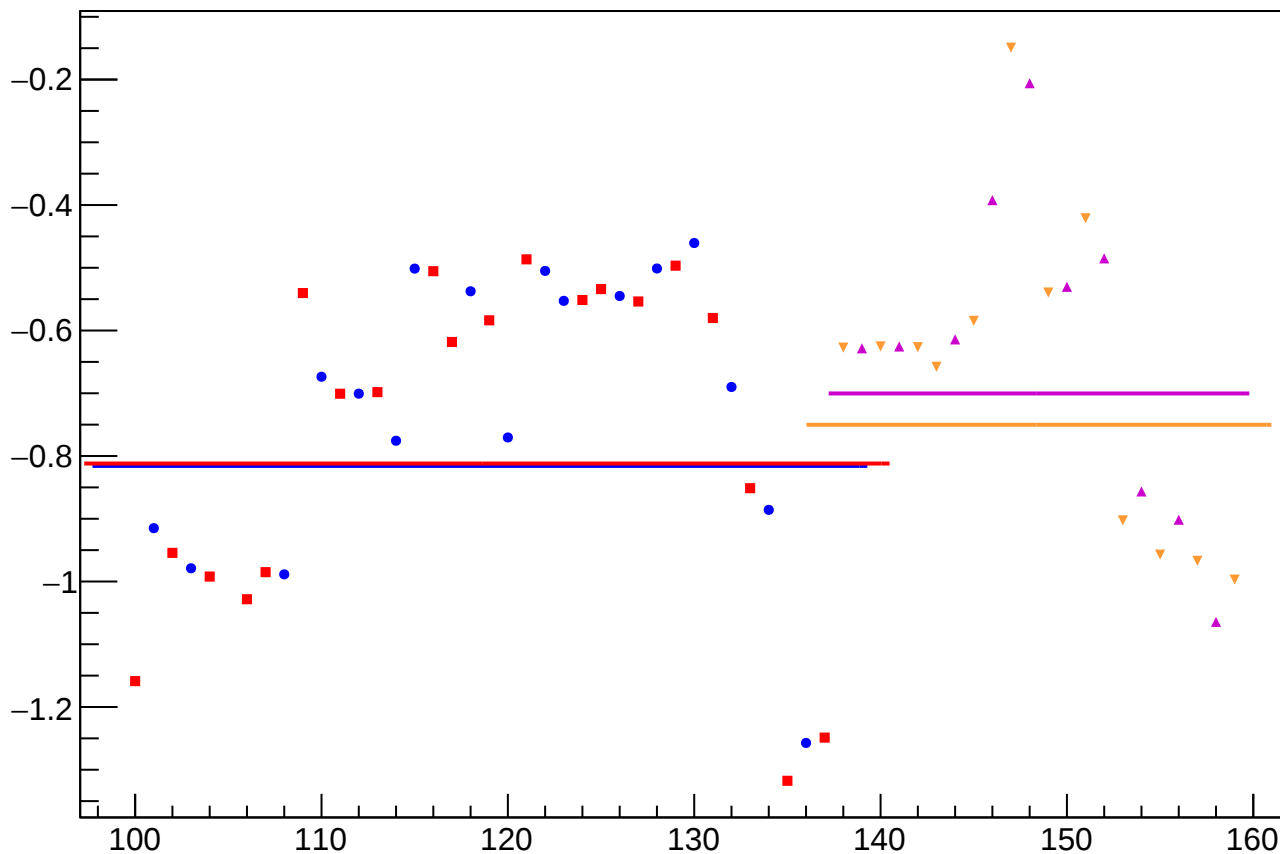
Right Out: 0.006+/-0.000 χ^2/NDF : 472534.6/19

Left In: 0.004+/-0.000 χ^2/NDF : 43091.0/9

0.005+/-0.000 χ^2/NDF : 1758620.3/28

0.005+/-0.000 χ^2/NDF : 1468431.5/29

yield_bpm0i07X_mean vs Slug



Right In: -0.816 ± 0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.771 ± 0.000 χ^2/NDF : 23896869336.3/11

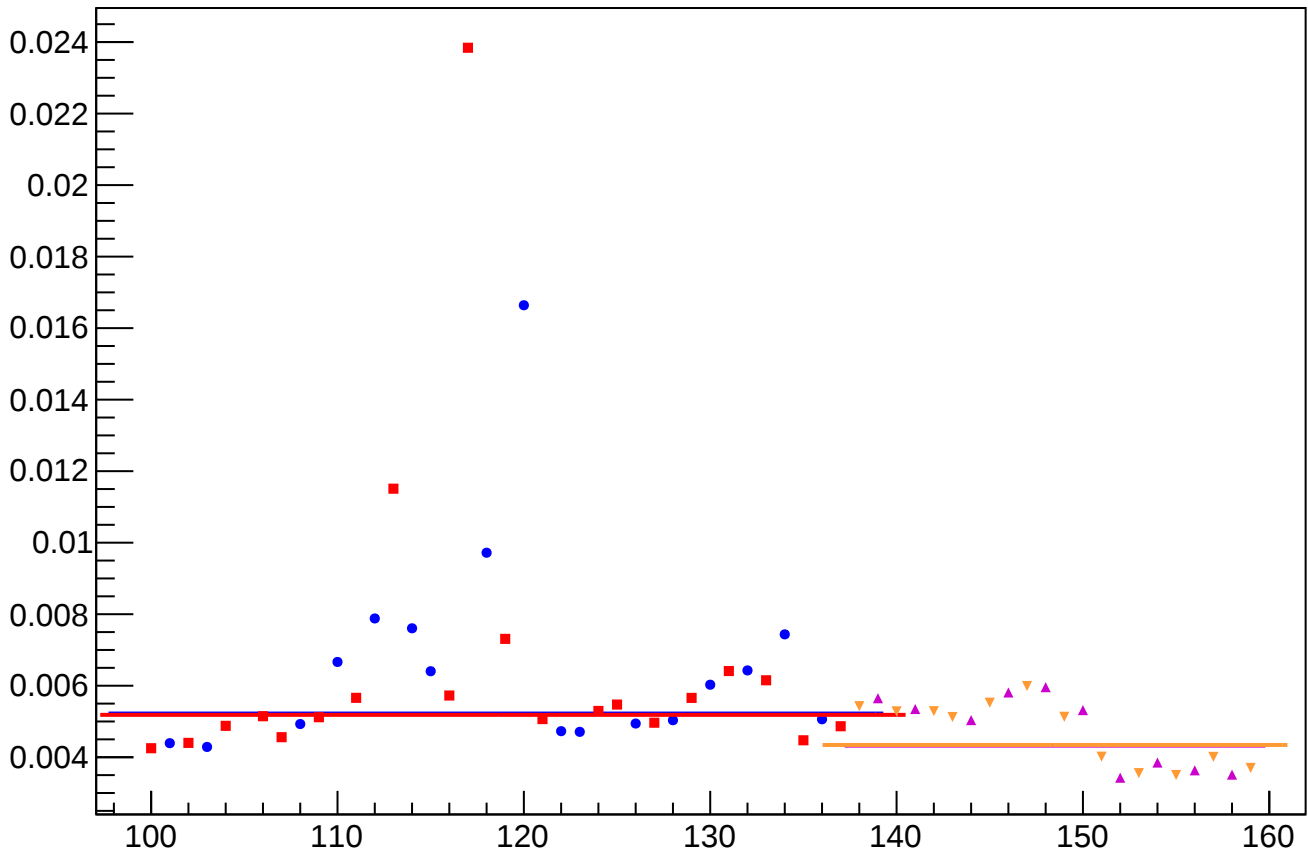
Right Out: -0.812 ± 0.000 χ^2/NDF : 16818378599.3/19

Left In: -0.700 ± 0.000 χ^2/NDF : 23260619401.2/9

-0.771 ± 0.000 χ^2/NDF : 38643669702.5/28

-0.741 ± 0.000 χ^2/NDF : 41831310928.1/29

yield_bpm0i07X_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF : 582017.6/11

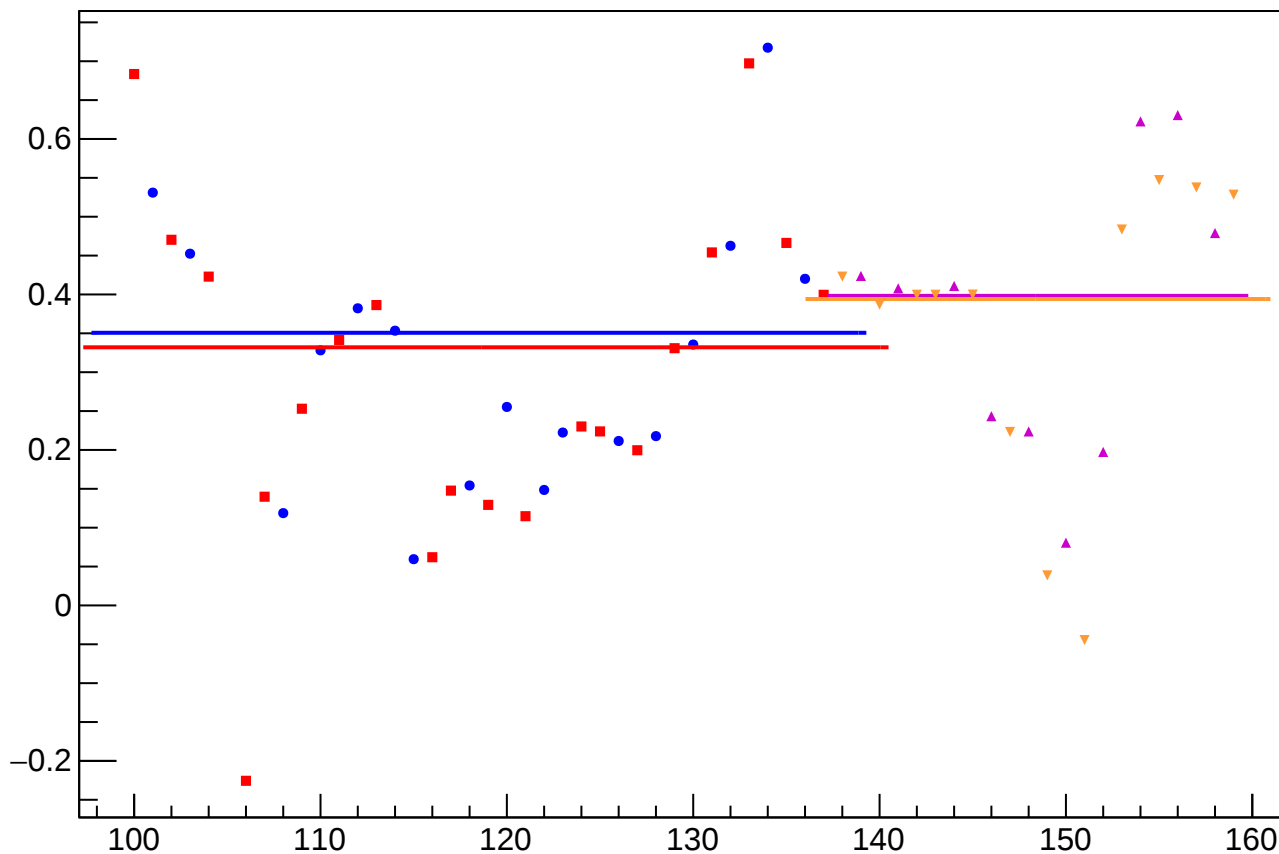
Right Out: 0.005+/-0.000 χ^2/NDF : 410640.5/19

Left In: 0.004+/-0.000 χ^2/NDF : 683859.9/9

0.005+/-0.000 χ^2/NDF : 1451887.0/28

0.005+/-0.000 χ^2/NDF : 1302868.2/29

yield_bpm0i07Y_mean vs Slug



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.394+/-0.000 χ^2/NDF :17141668011.9/11

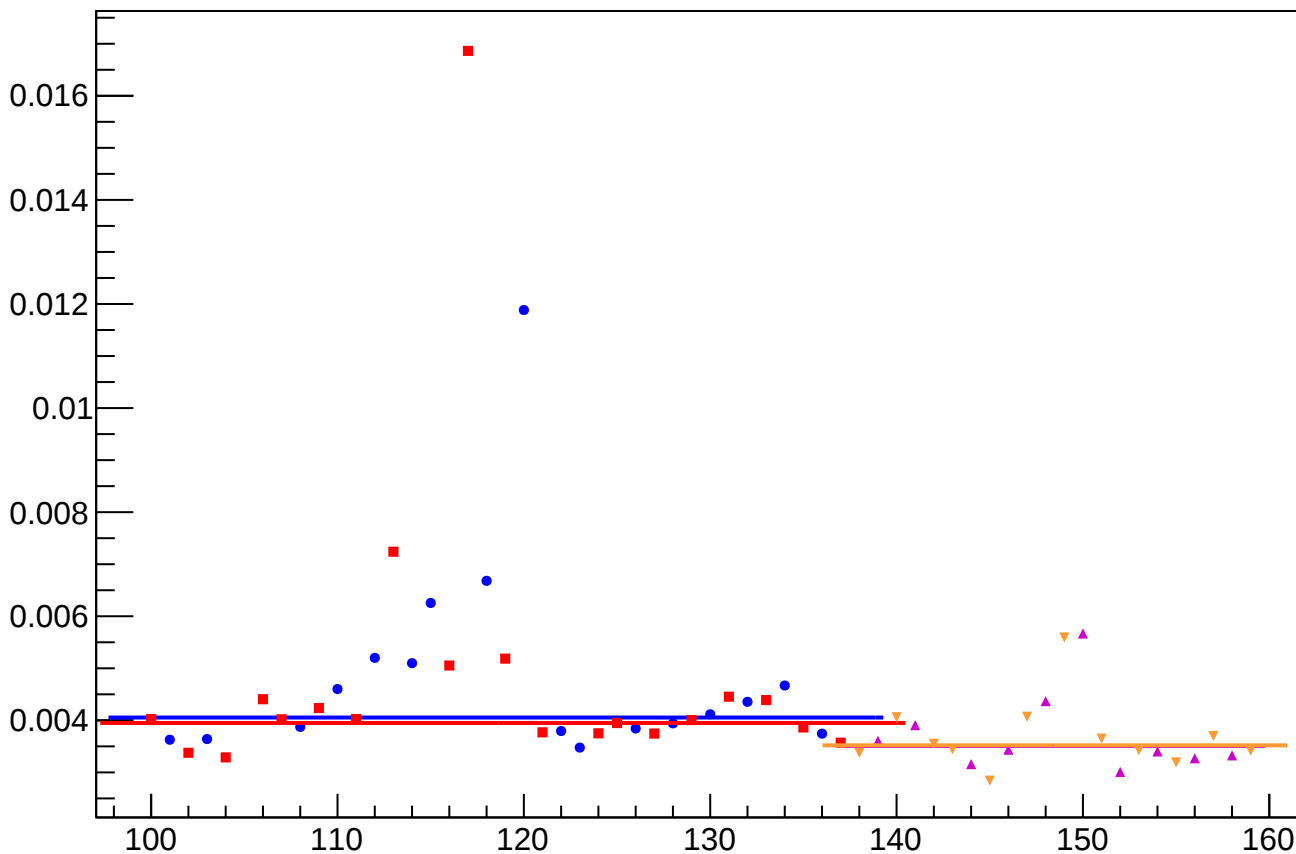
Right Out: 0.332+/-0.000 χ^2/NDF : 11800695210.2/19

Left In: 0.398+/-0.000 χ^2/NDF :15451728842.1/9

0.378+/-0.000 χ^2/NDF : 24968123631.6/28

0.371+/-0.000 χ^2/NDF : 28264450423.5/29

yield_bpm0i07Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.004+/-0.000 χ^2/NDF :336294.3/11

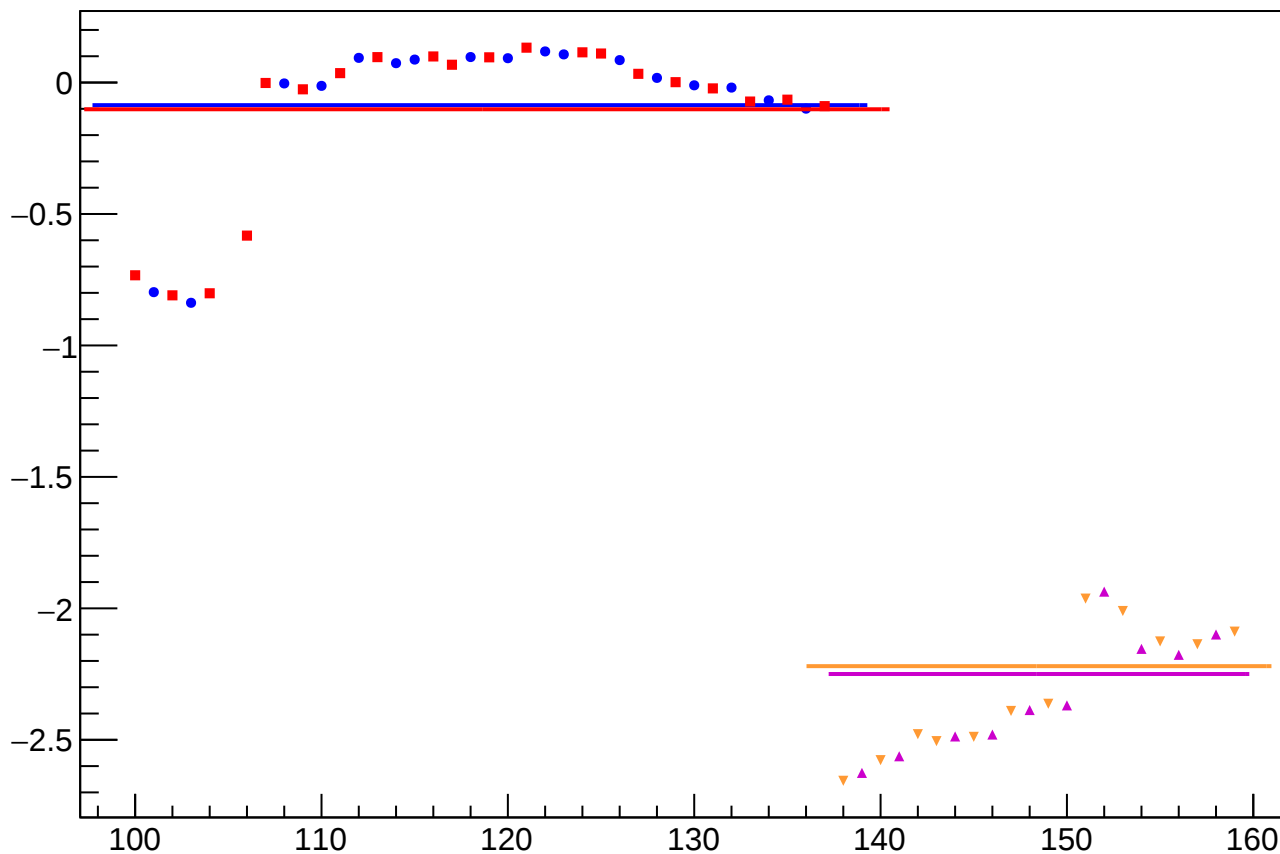
Right Out: 0.004+/-0.000 χ^2/NDF : 304954.7/19

Left In: 0.004+/-0.000 χ^2/NDF :358994.3/9

0.004+/-0.000 χ^2/NDF : 917360.7/28

0.004+/-0.000 χ^2/NDF : 754579.8/29

yield_bpm1i02X_mean vs Slug



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.220+/-0.000 χ^2/NDF : 3412787588.2/11

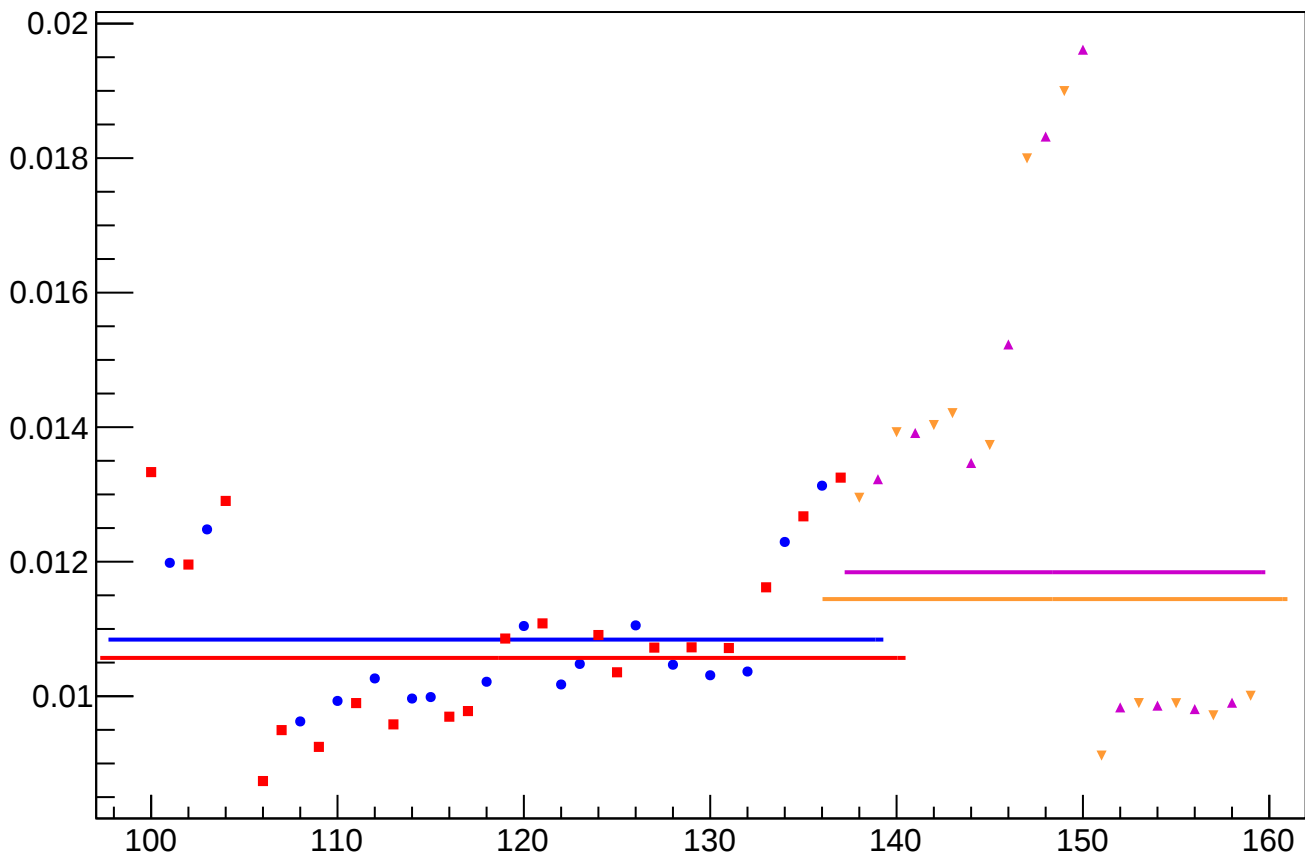
Right Out: -0.102+/-0.000 χ^2/NDF : 5566142794.2/19

Left In: -2.250+/-0.000 χ^2/NDF : 2644633807.1/9

-1.224+/-0.000 χ^2/NDF : 145478520350.7/28

-1.097+/-0.000 χ^2/NDF : 143238616465.4/29

yield_bpm1i02X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :912473.7/11

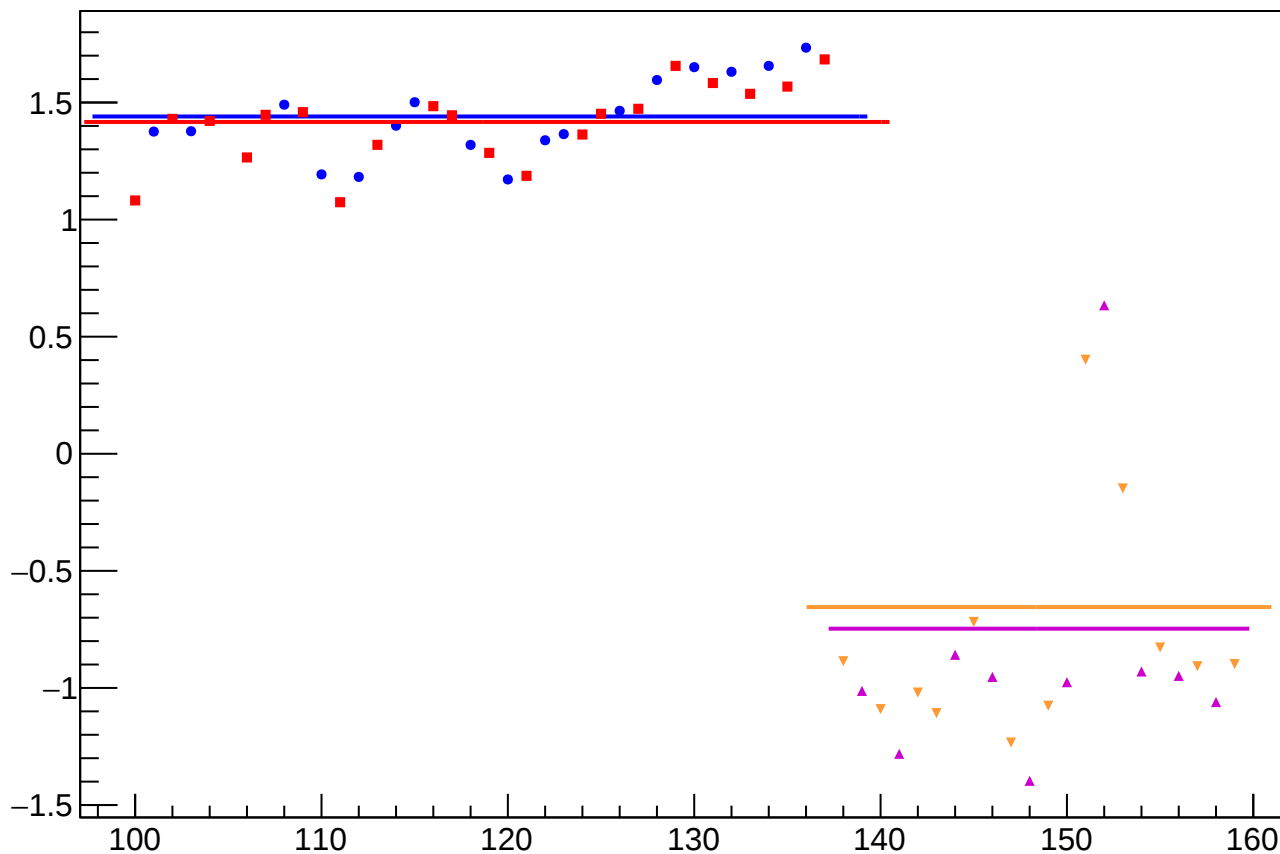
Right Out: 0.011+/-0.000 χ^2/NDF : 179537.7/19

Left In: 0.012+/-0.000 χ^2/NDF :893858.9/9

0.011+/-0.000 χ^2/NDF : 1058573.9/28

0.011+/-0.000 χ^2/NDF : 1168357.9/29

yield_bpm1i02Y_mean vs Slug



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.655 $\pm$ 0.000 χ^2 /NDF: 29192635142.0/11

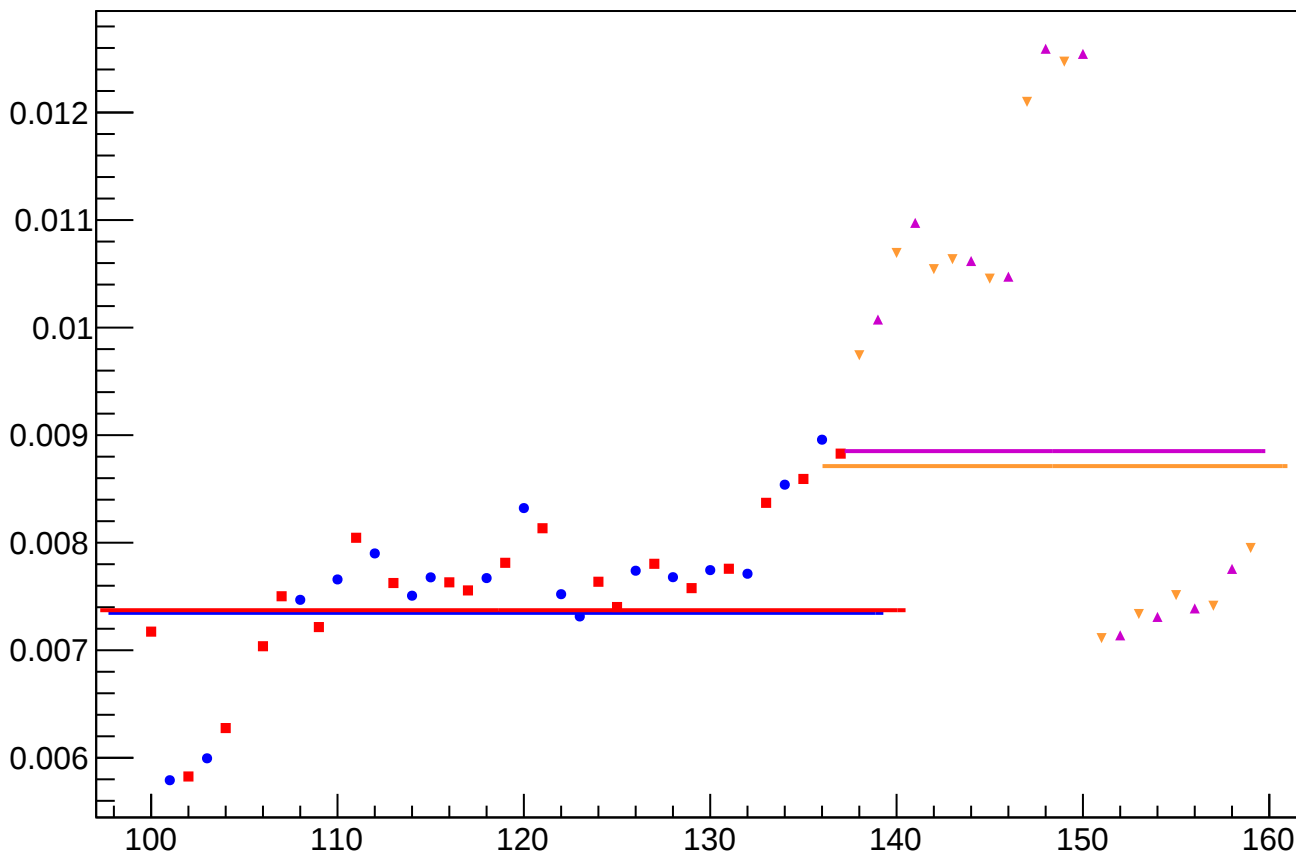
Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674679406.4/19

Left In: -0.747 $\pm$ 0.000 χ^2 /NDF: 38651145831.2/9

0.433 $\pm$ 0.000 χ^2 /NDF: 290044751807.5/28

0.482 $\pm$ 0.000 χ^2 /NDF: 304134223423.9/29

yield_bpm1i02Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 687745.0/11

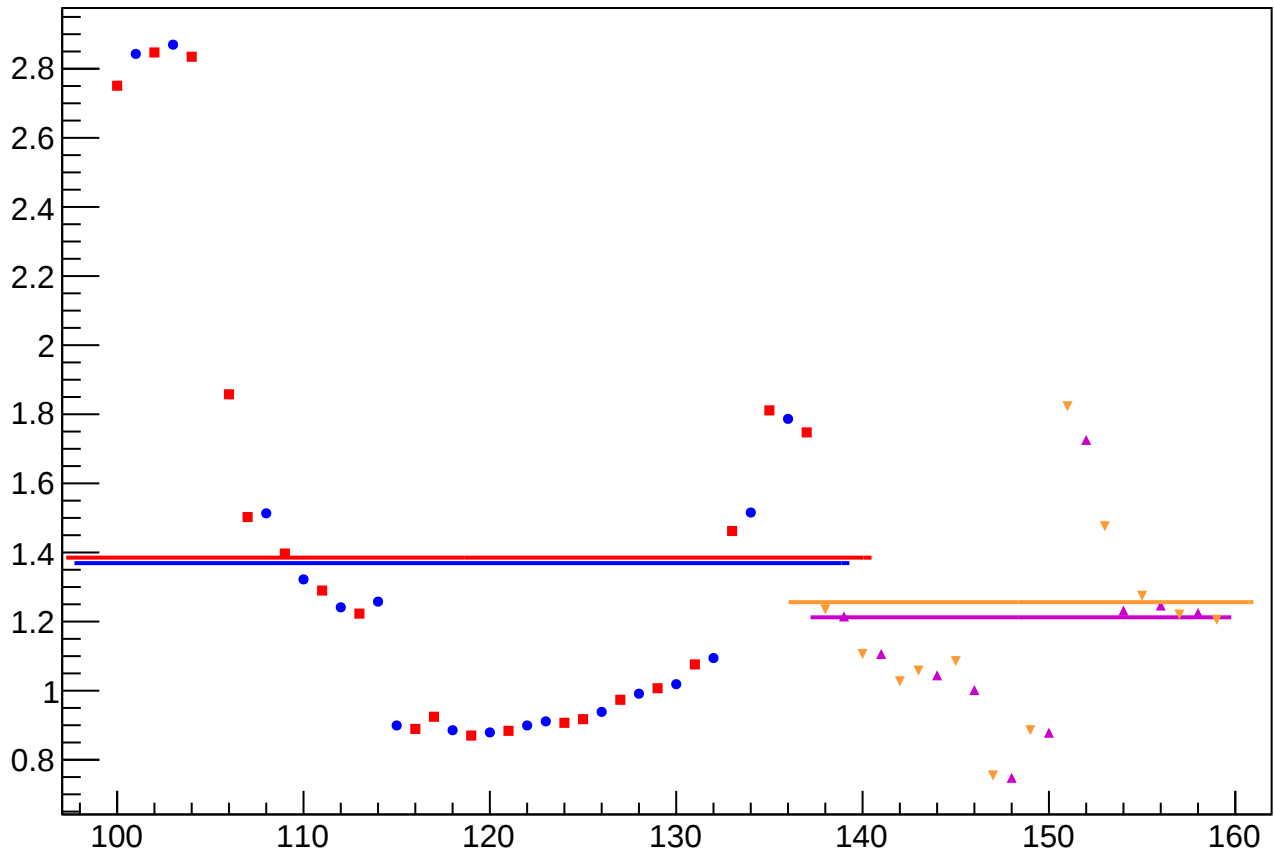
Right Out: 0.007+/-0.000 χ^2/NDF : 172741.0/19

Left In: 0.009+/-0.000 χ^2/NDF : 723399.0/9

0.008+/-0.000 χ^2/NDF : 1134282.5/28

0.008+/-0.000 χ^2/NDF : 1141789.6/29

yield_bpm1i04X_mean vs Slug



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.256+/-0.000 χ^2/NDF : 8756464594.5/11

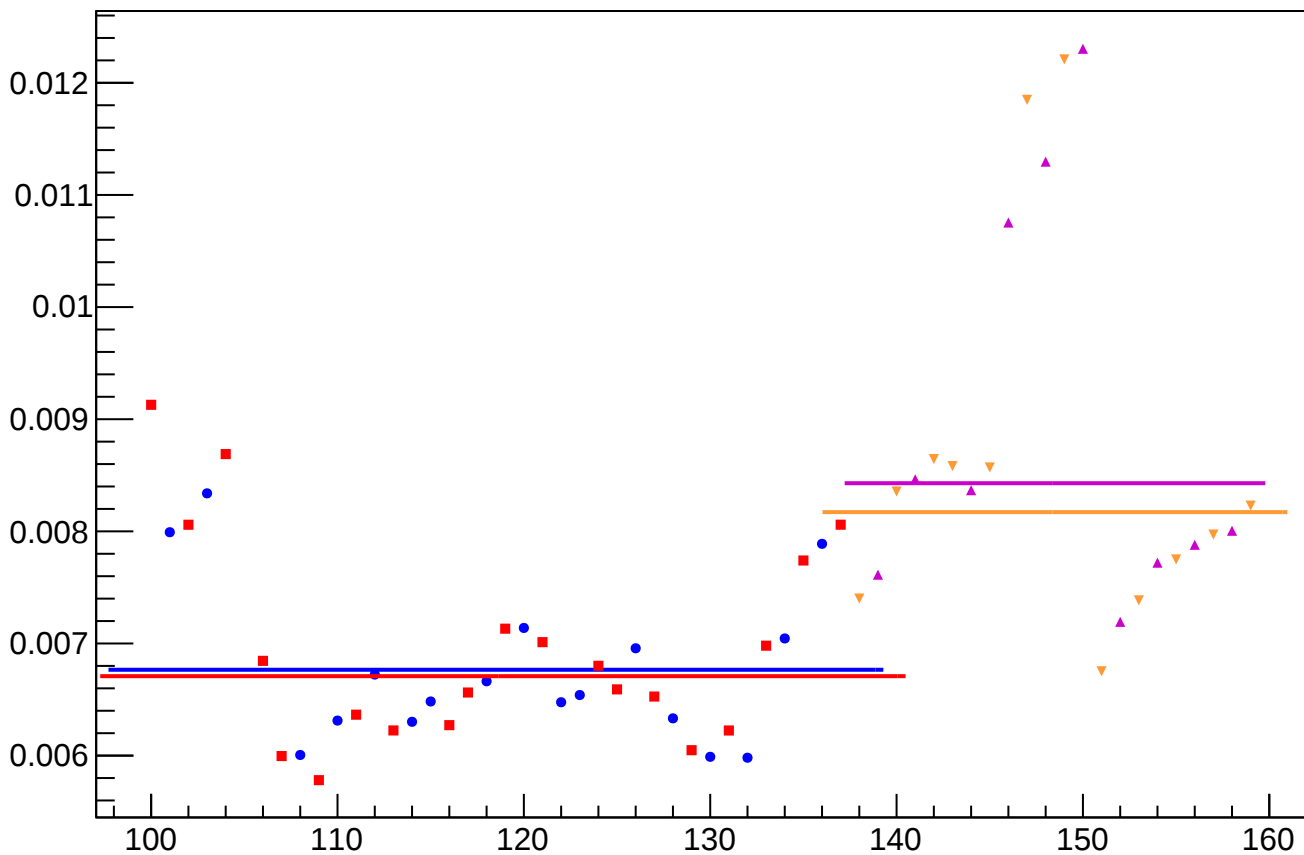
1.317+/-0.000 χ^2/NDF : 63819629061.1/28

Right Out: 1.385+/-0.000 χ^2/NDF : 50114562617.6/19

1.315+/-0.000 χ^2/NDF : 58840579170.5/29

Left In: 1.212+/-0.000 χ^2/NDF : 6821298659.0/9

yield_bpm1i04X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 405324.5/11

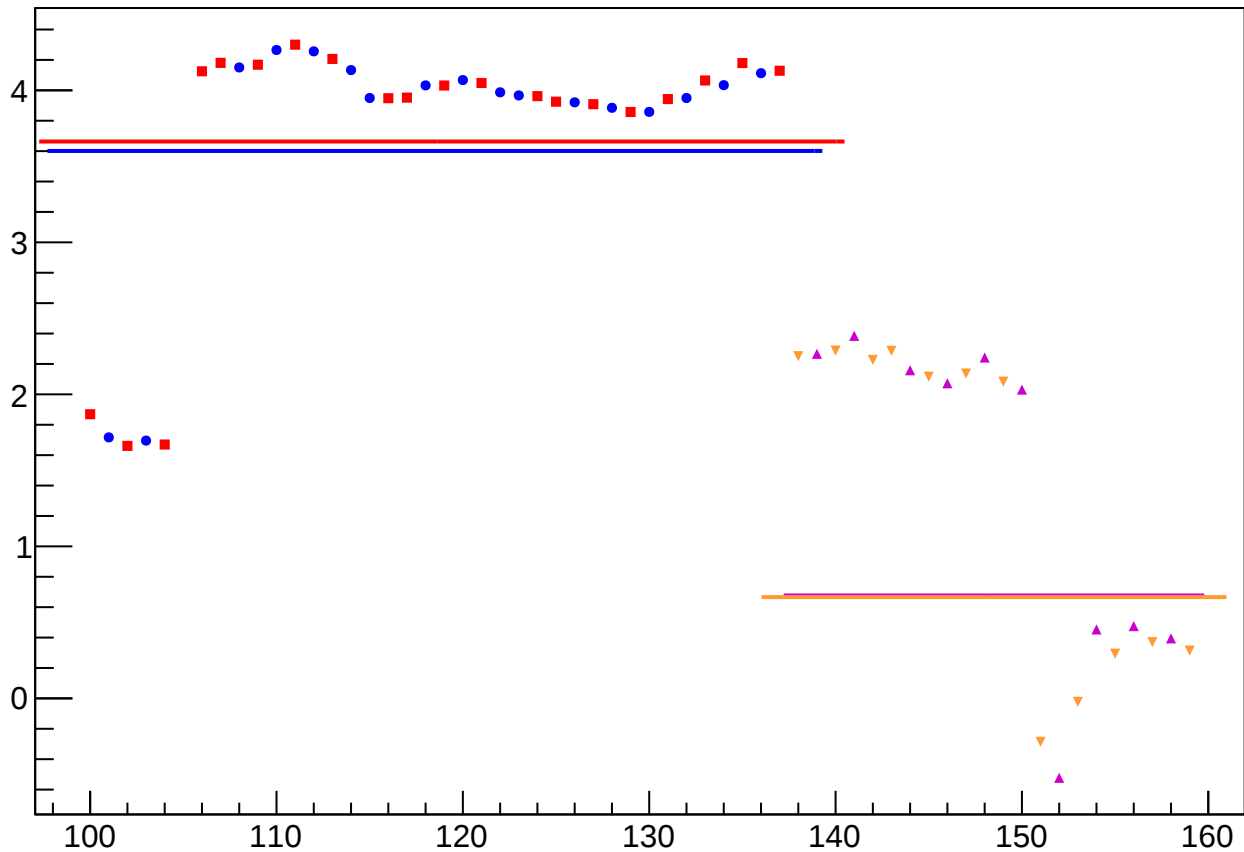
Right Out: 0.007+/-0.000 χ^2/NDF : 187869.7/19

Left In: 0.008+/-0.000 χ^2/NDF : 412850.1/9

0.007+/-0.000 χ^2/NDF : 830463.9/28

0.007+/-0.000 χ^2/NDF : 978745.2/29

yield_bpm1i04Y_mean vs Slug



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.666+/-0.000 χ^2/NDF : 252027545300.5/11

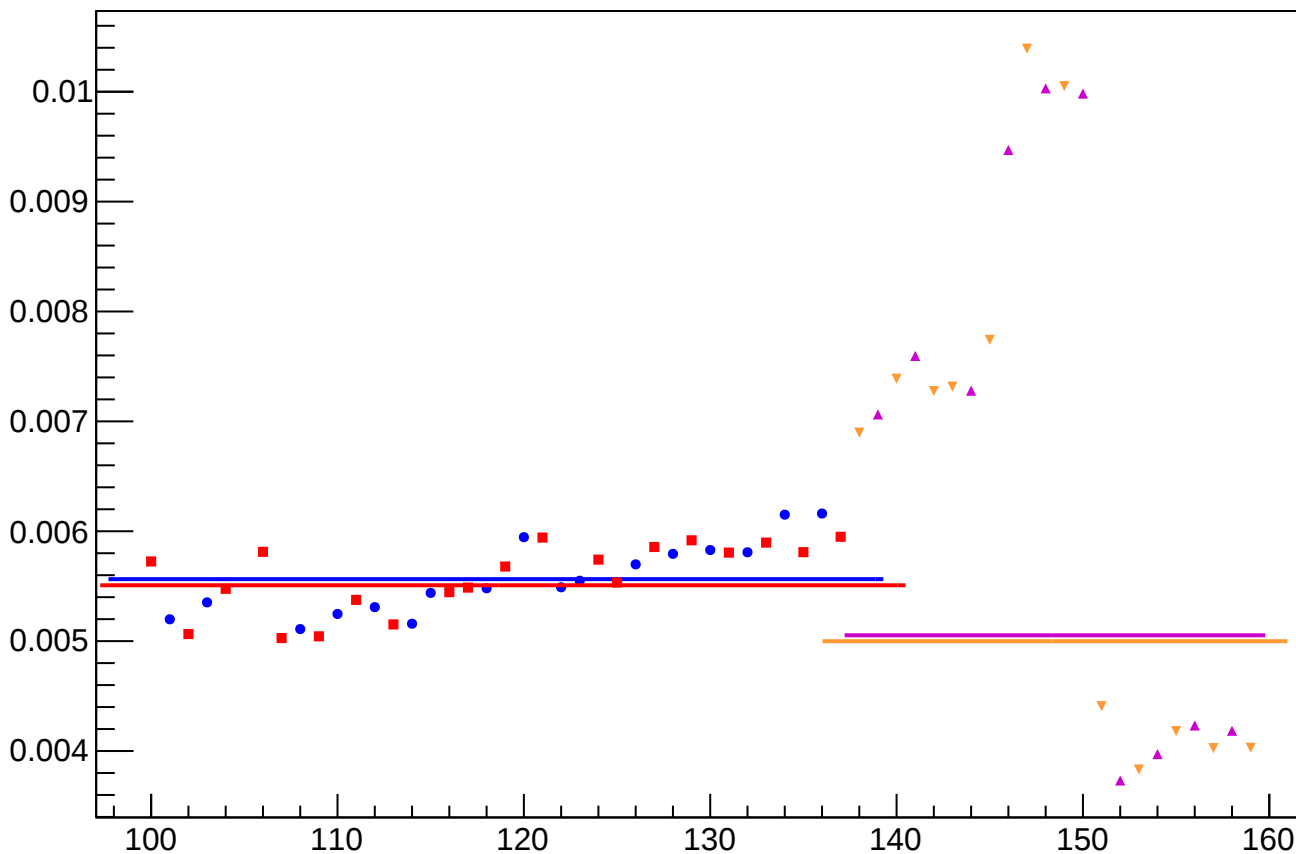
1.889+/-0.000 χ^2/NDF : 1522885041938.4/28

Right Out: 3.663+/-0.000 χ^2/NDF : 192640409625.9/19

2.066+/-0.000 χ^2/NDF : 1542458757875.6/29

Left In: 0.677+/-0.000 χ^2/NDF : 249152589086.0/9

yield_bpm1i04Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF :1804196.1/11

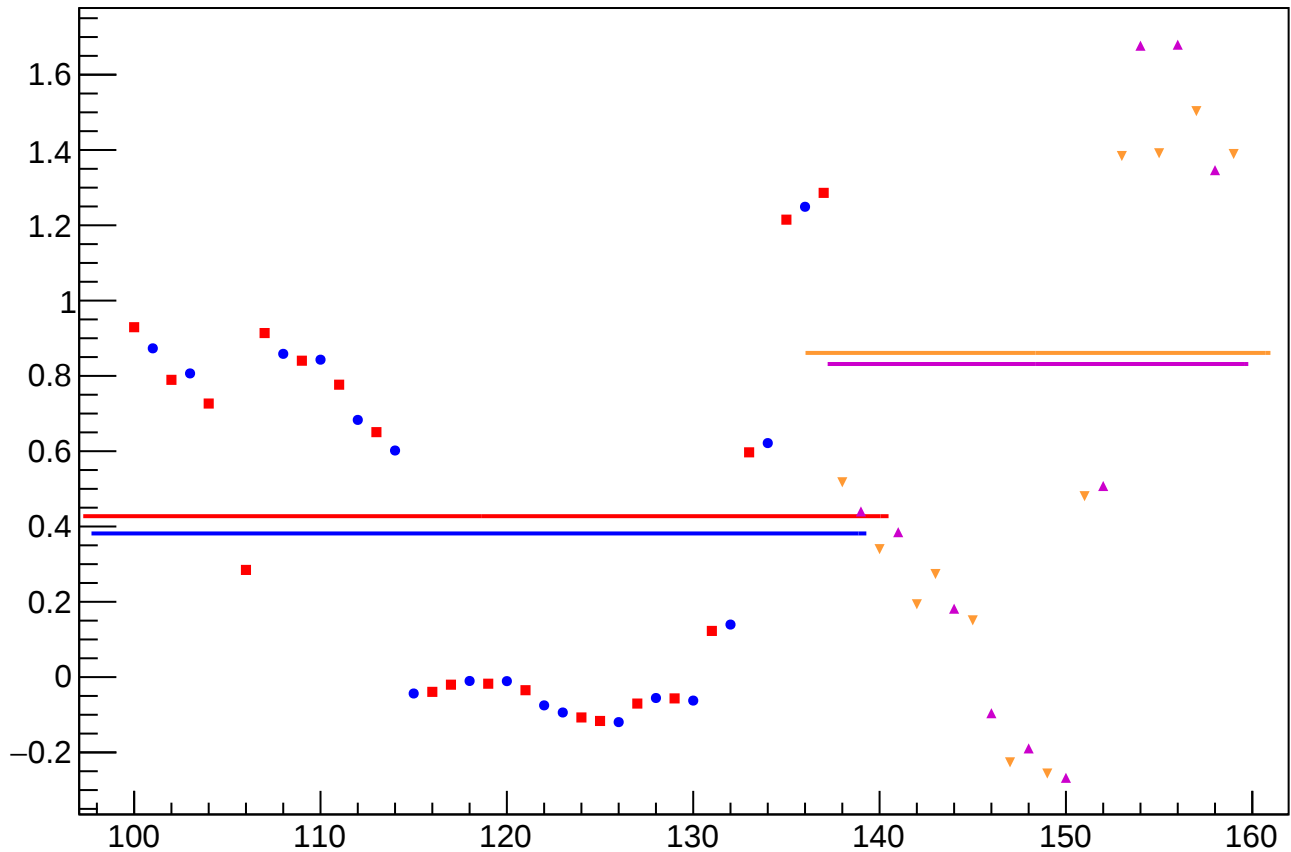
Right Out: 0.006+/-0.000 χ^2/NDF : 52636.1/19

Left In: 0.005+/-0.000 χ^2/NDF :1943933.6/9

0.005+/-0.000 χ^2/NDF : 1932157.8/28

0.005+/-0.000 χ^2/NDF : 2047722.8/29

yield_bpm1i06X_mean vs Slug



Right In: 0.382+/-0.000 χ^2/NDF : 7124759123.1/16

Left Out: 0.861+/-0.000 χ^2/NDF : 20606212279.2/11

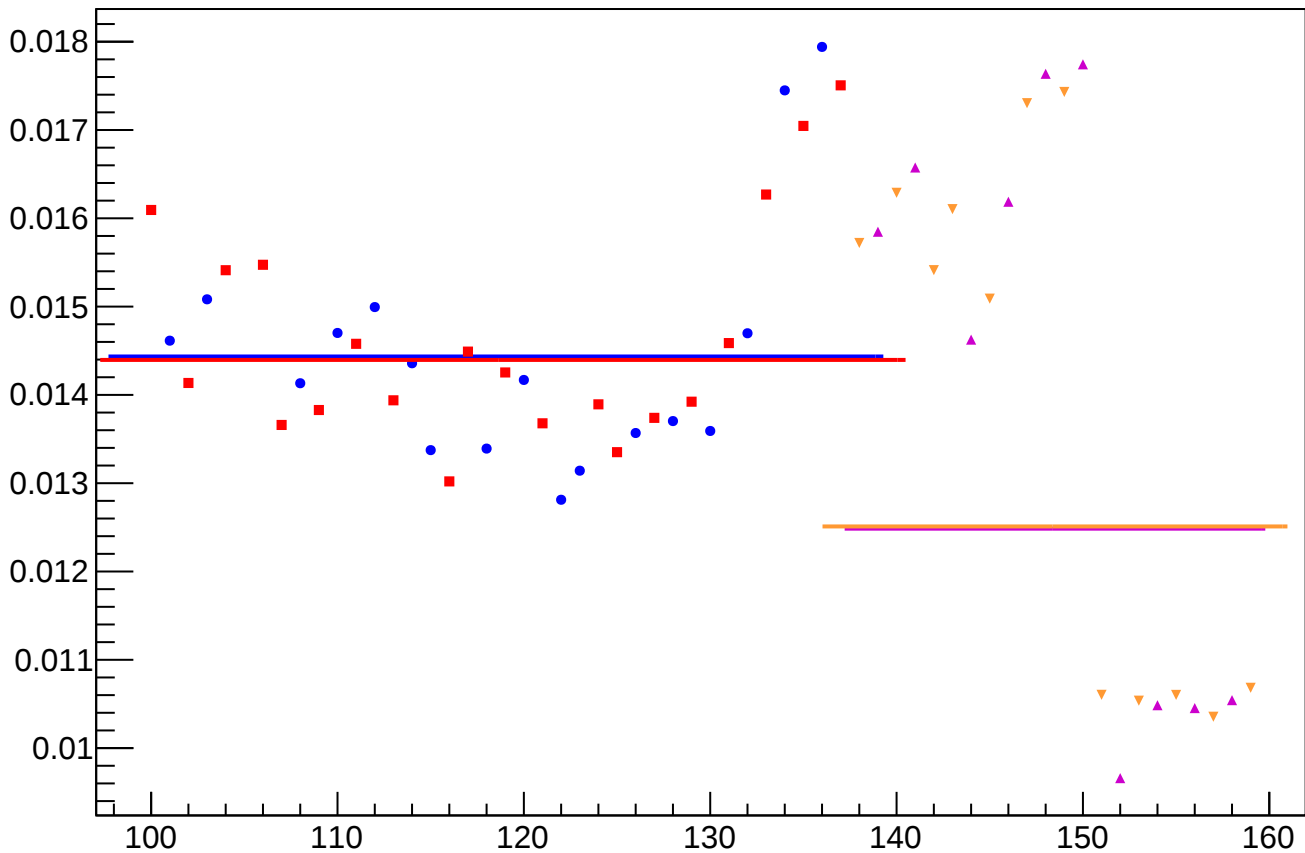
0.683+/-0.000 χ^2/NDF : 32324457119.2/28

Right Out: 0.427+/-0.000 χ^2/NDF : 6716521382.4/19

0.666+/-0.000 χ^2/NDF : 34591711518.4/29

Left In: 0.832+/-0.000 χ^2/NDF : 24618248452.4/9

yield_bpm1i06X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.013+/-0.000 χ^2/NDF : 797974.9/11

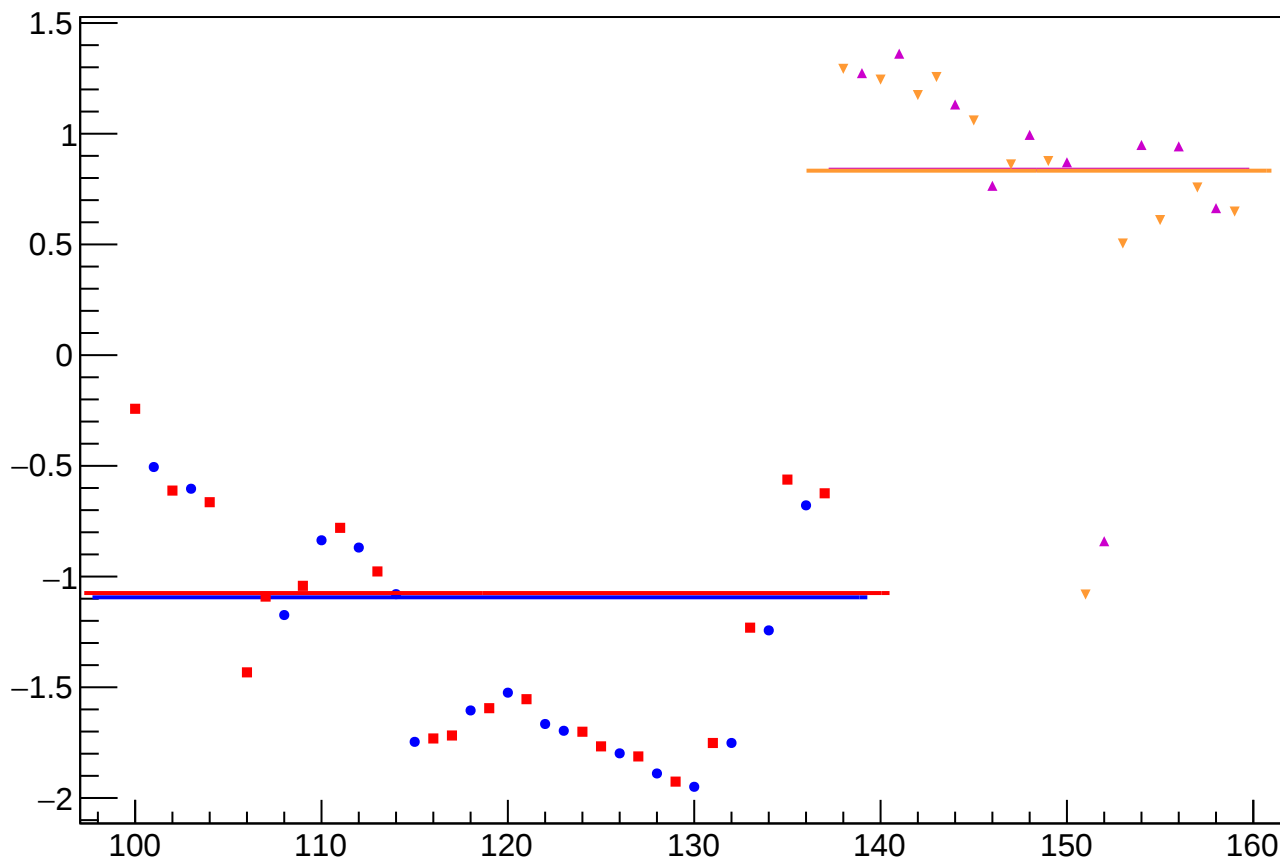
Right Out: 0.014+/-0.000 χ^2/NDF : 74535.1/19

Left In: 0.012+/-0.000 χ^2/NDF : 882281.0/9

0.013+/-0.000 χ^2/NDF : 1056223.1/28

0.013+/-0.000 χ^2/NDF : 1102414.7/29

yield_bpm1i06Y_mean vs Slug



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.833+/-0.000 χ^2/NDF : 123085853770.4/11

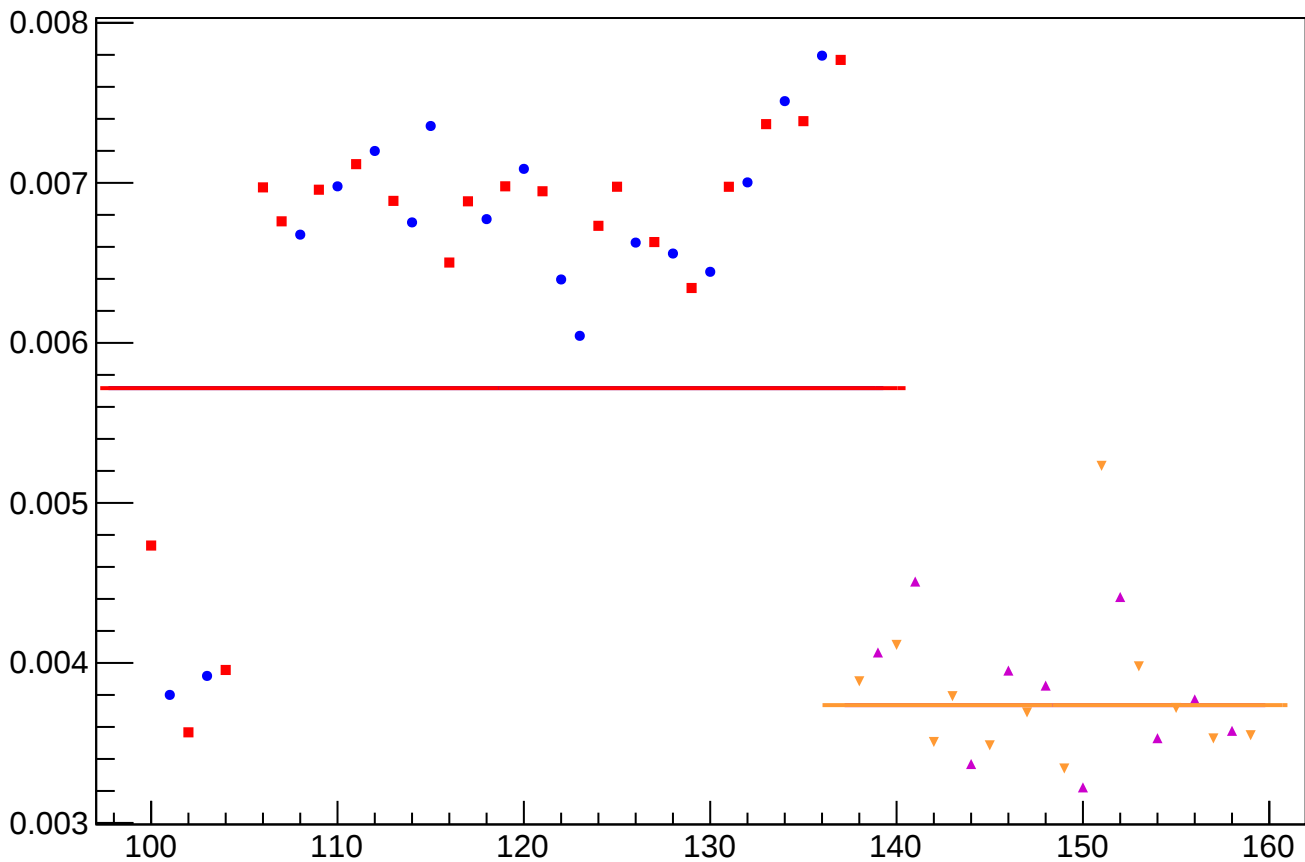
Right Out: -1.074+/-0.000 χ^2/NDF : 47208439320.8/19

Left In: 0.837+/-0.000 χ^2/NDF : 140862504469.0/9

0.366+/-0.000 χ^2/NDF : 689782891162.5/28

0.321+/-0.000 χ^2/NDF : 694127683812.2/29

yield_bpm1i06Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :158146.3/11

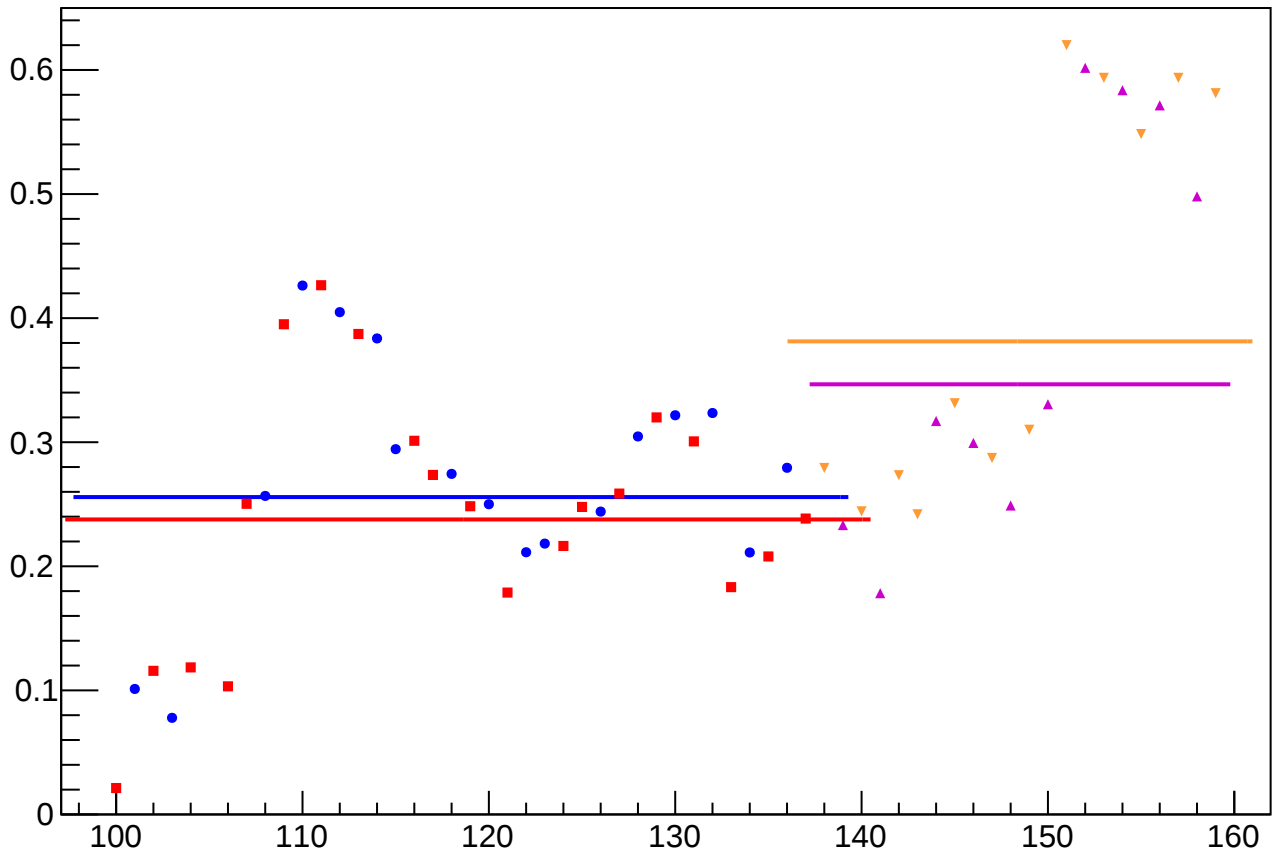
Right Out: 0.006+/-0.000 χ^2/NDF : 925957.4/19

Left In: 0.004+/-0.000 χ^2/NDF :161707.4/9

0.004+/-0.000 χ^2/NDF : 2075827.1/28

0.004+/-0.000 χ^2/NDF : 2174026.3/29

yield_bpm2i01X_mean vs Slug



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.381+/-0.000 χ^2/NDF : 56399066669.3/11

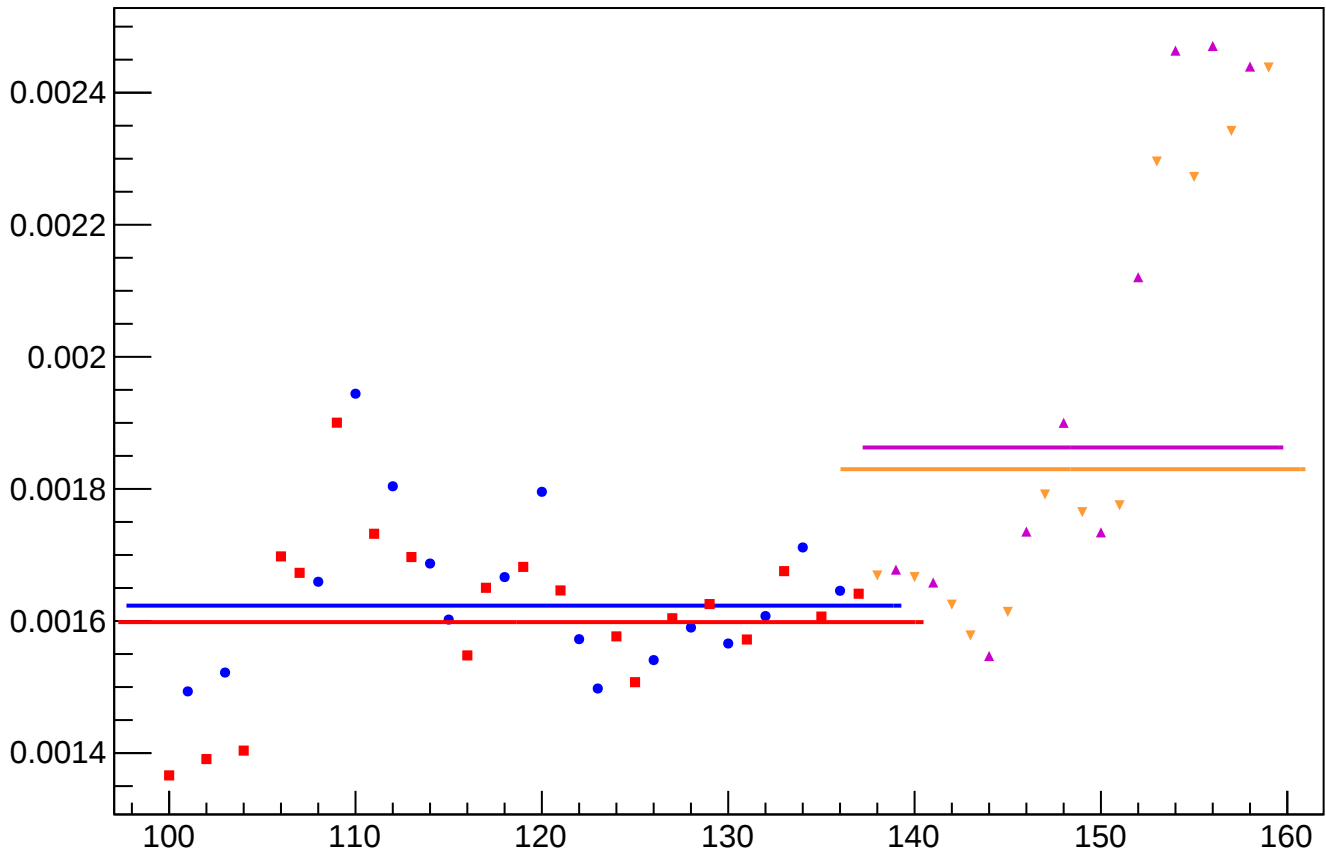
0.320+/-0.000 χ^2/NDF : 97555248607.7/28

Right Out: 0.238+/-0.000 χ^2/NDF : 26077768189.7/19

0.287+/-0.000 χ^2/NDF : 83983877540.7/29

Left In: 0.347+/-0.000 χ^2/NDF : 43337158182.6/9

yield_bpm2i01X_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF : 406667.9/11

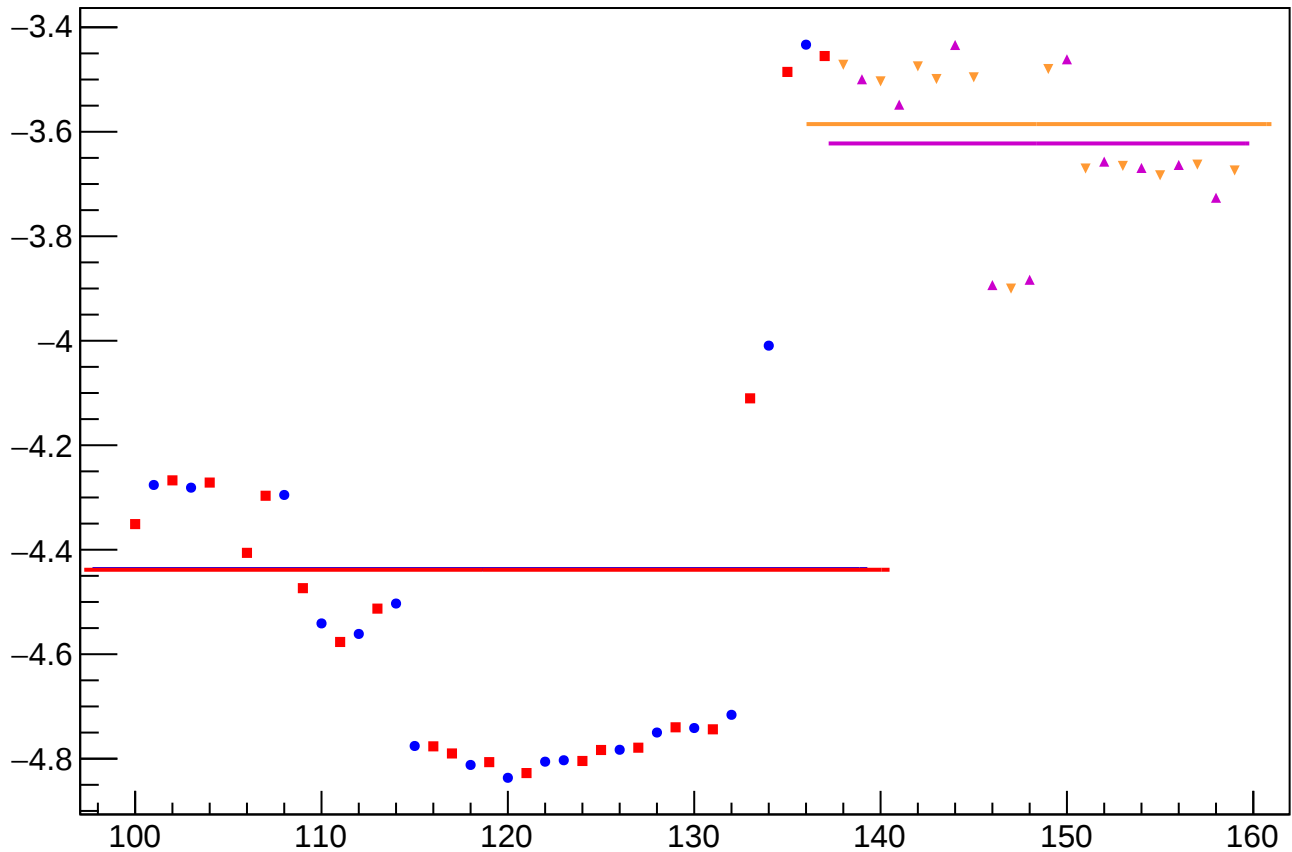
Right Out: 0.002+/-0.000 χ^2/NDF : 90764.4/19

Left In: 0.002+/-0.000 χ^2/NDF : 436237.0/9

0.002+/-0.000 χ^2/NDF : 566429.5/28

0.002+/-0.000 χ^2/NDF : 698764.1/29

yield_bpm2i01Y_mean vs Slug



Right In: -4.437+/-0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.585+/-0.000 χ^2/NDF : 29494457107.2/11

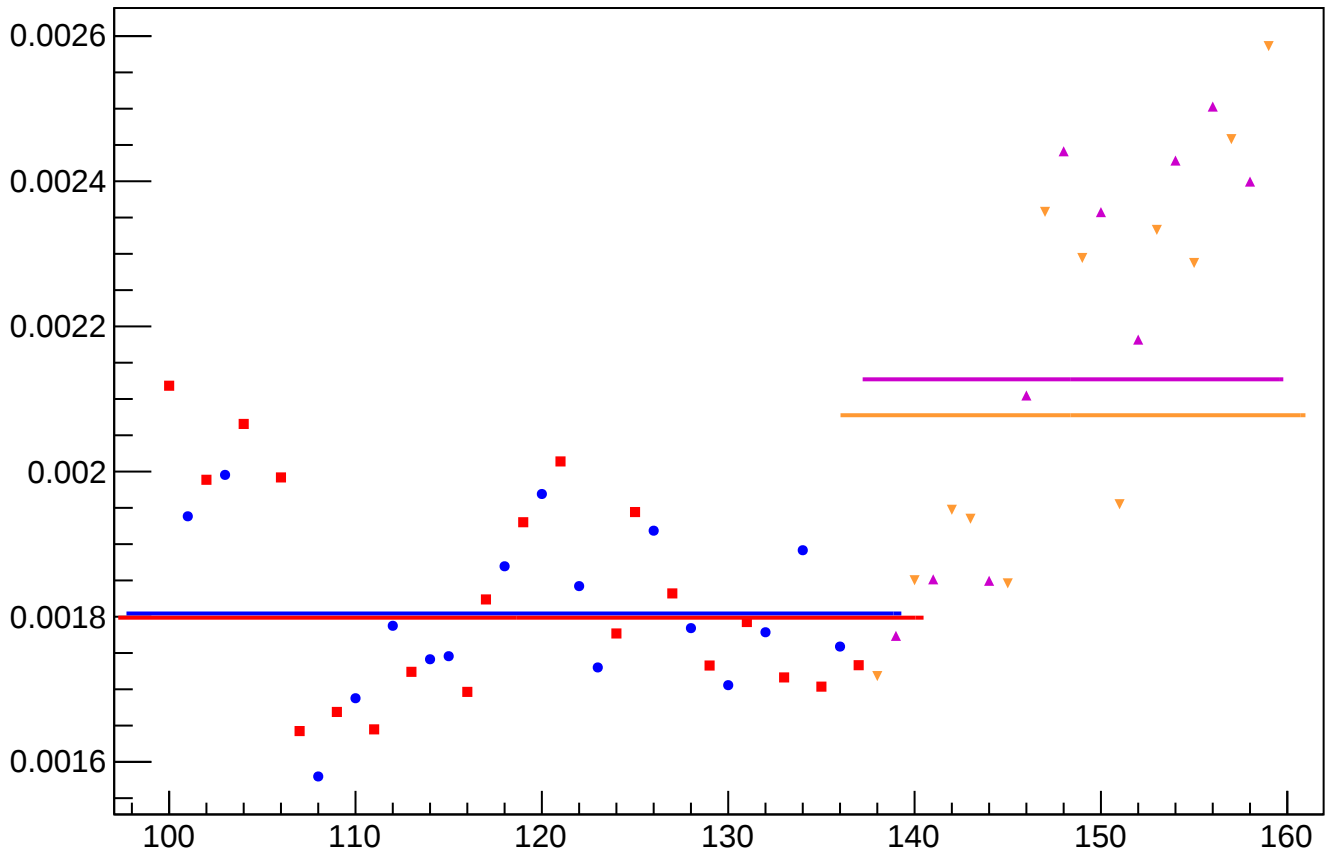
-4.012+/-0.000 χ^2/NDF : 1145164589767.6/28

Right Out: -4.438+/-0.000 χ^2/NDF : 326800745779.7/19

-4.073+/-0.000 χ^2/NDF : 1004644655126.6/29

Left In: -3.622+/-0.000 χ^2/NDF : 41284578303.8/9

yield_bpm2i01Y_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :290784.6/11

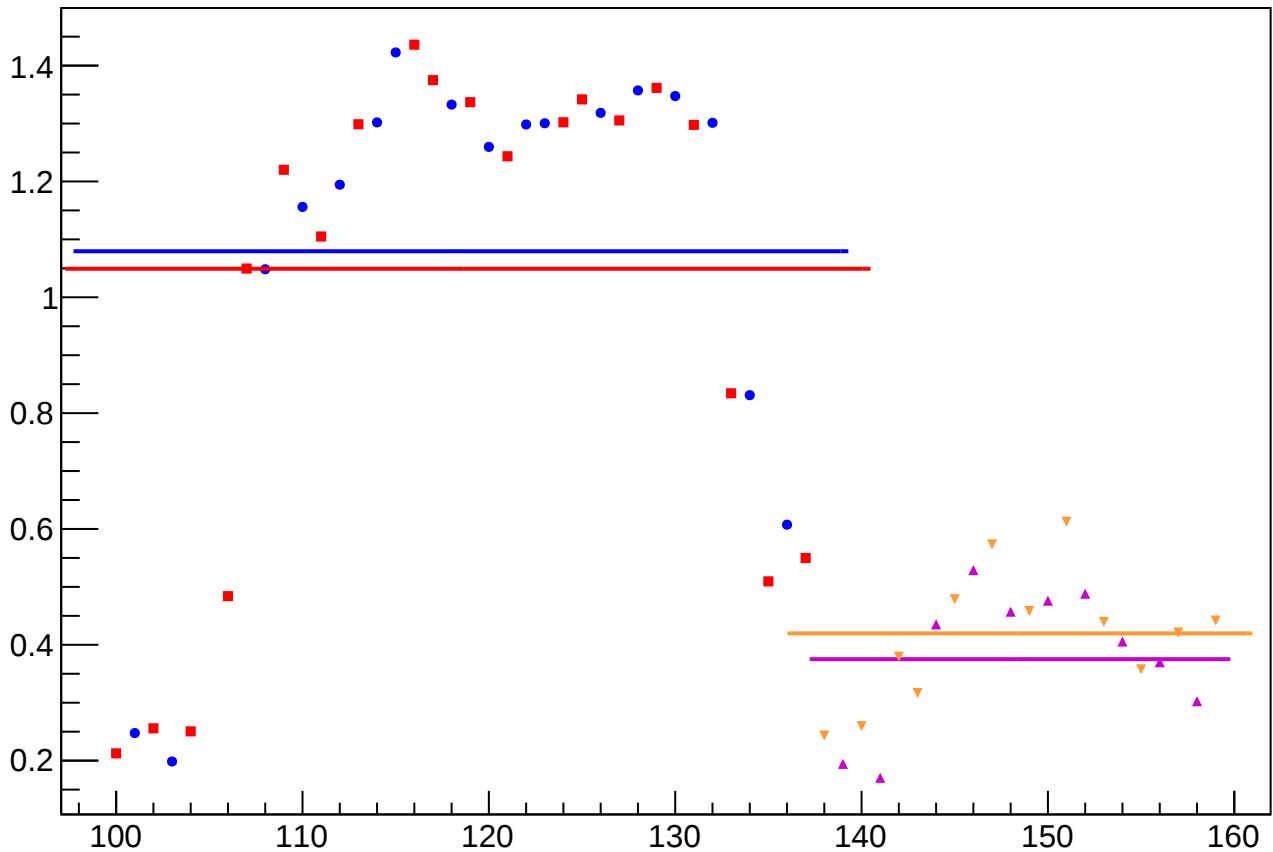
Right Out: 0.002+/-0.000 χ^2/NDF : 81037.5/19

Left In: 0.002+/-0.000 χ^2/NDF :251870.6/9

0.002+/-0.000 χ^2/NDF : 488640.0/28

0.002+/-0.000 χ^2/NDF : 539144.4/29

yield_bpm2i02X_mean vs Slug



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.420 $\pm$ 0.000 χ^2 /NDF: 1166912489.9/11

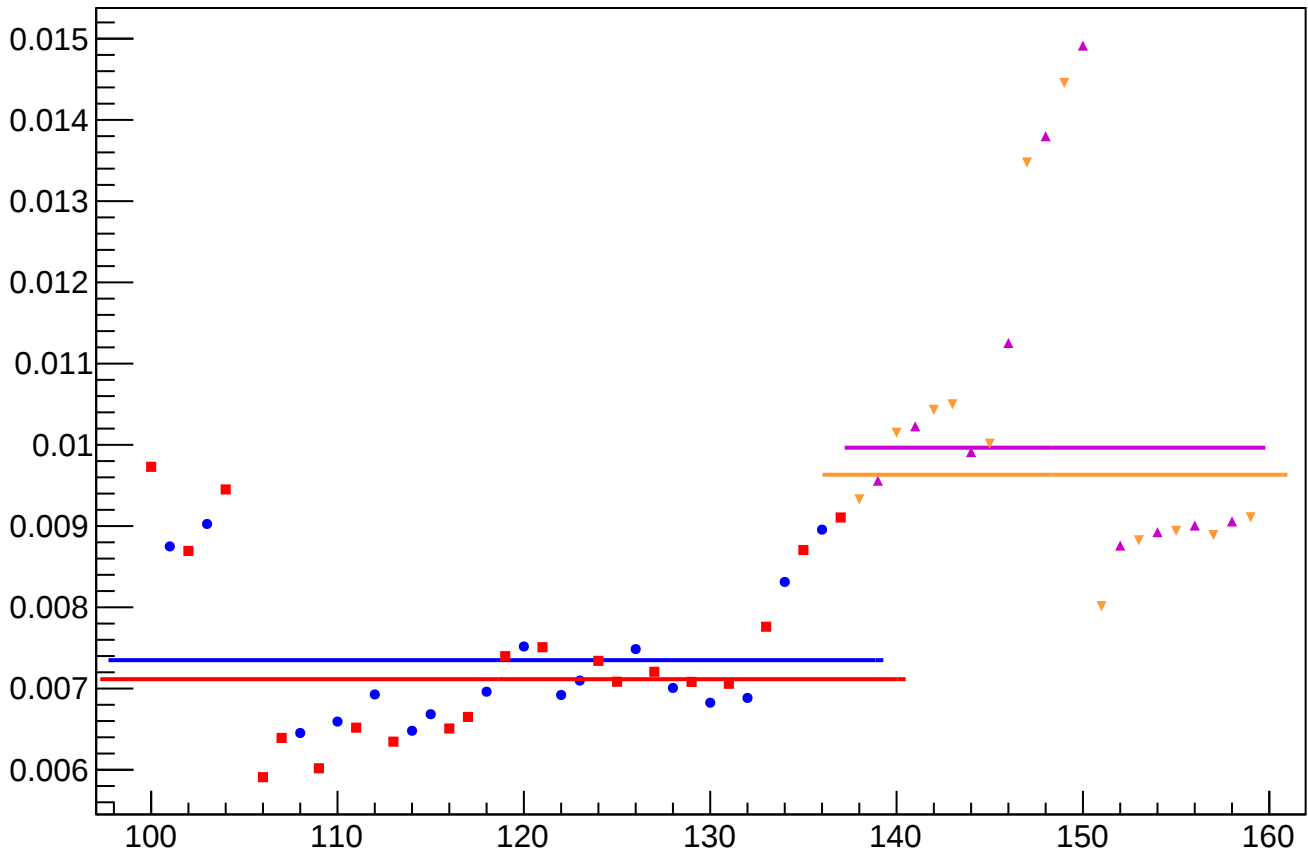
0.793 $\pm$ 0.000 χ^2 /NDF: 41807571114.7/28

Right Out: 1.049 $\pm$ 0.000 χ^2 /NDF: 19787986428.4/19

0.804 $\pm$ 0.000 χ^2 /NDF: 43752909348.5/29

Left In: 0.375 $\pm$ 0.000 χ^2 /NDF: 1029175961.3/9

yield_bpm2i02X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.010+/-0.000 χ^2/NDF : 429970.3/11

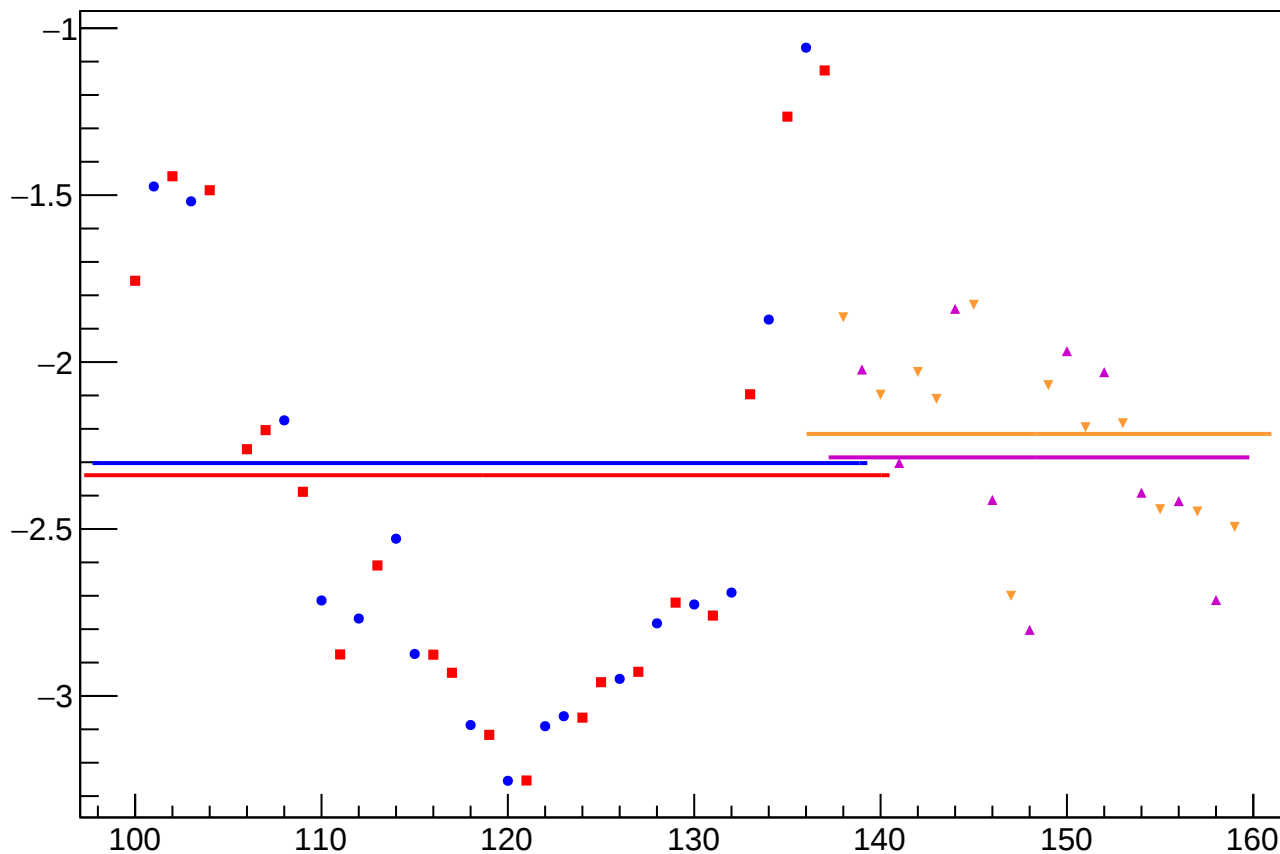
Right Out: 0.007+/-0.000 χ^2/NDF : 259539.3/19

Left In: 0.010+/-0.000 χ^2/NDF : 425996.4/9

0.008+/-0.000 χ^2/NDF : 1163987.0/28

0.008+/-0.000 χ^2/NDF : 1505402.2/29

yield_bpm2i02Y_mean vs Slug



Right In: -2.303 ± 0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.215 ± 0.000 χ^2/NDF : 6830557101.5/11

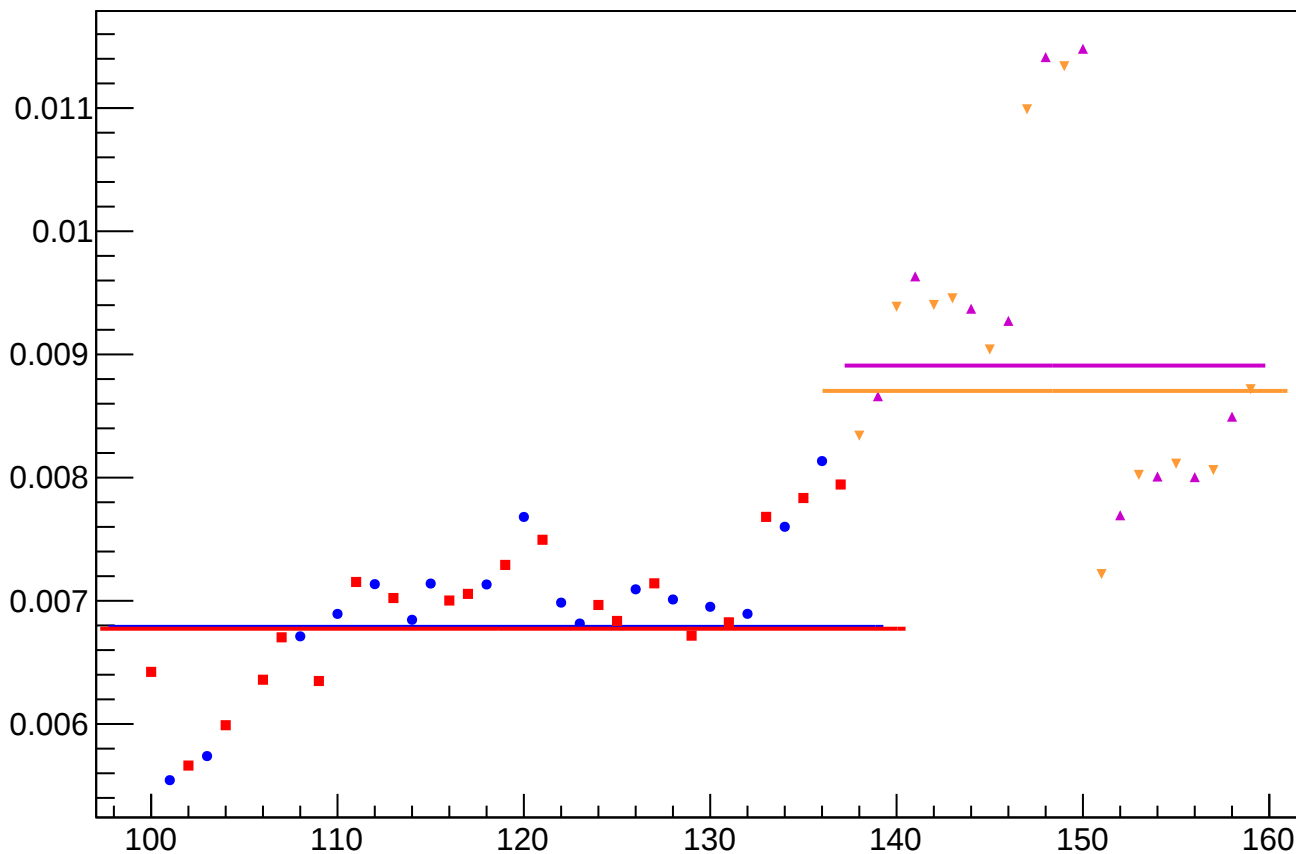
Right Out: -2.339 ± 0.000 χ^2/NDF : 64804828308.5/19

Left In: -2.285 ± 0.000 χ^2/NDF : 8364082340.2/9

-2.264 ± 0.000 χ^2/NDF : 81078309751.3/28

-2.318 ± 0.000 χ^2/NDF : 73343476425.4/29

yield_bpm2i02Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 277631.8/11

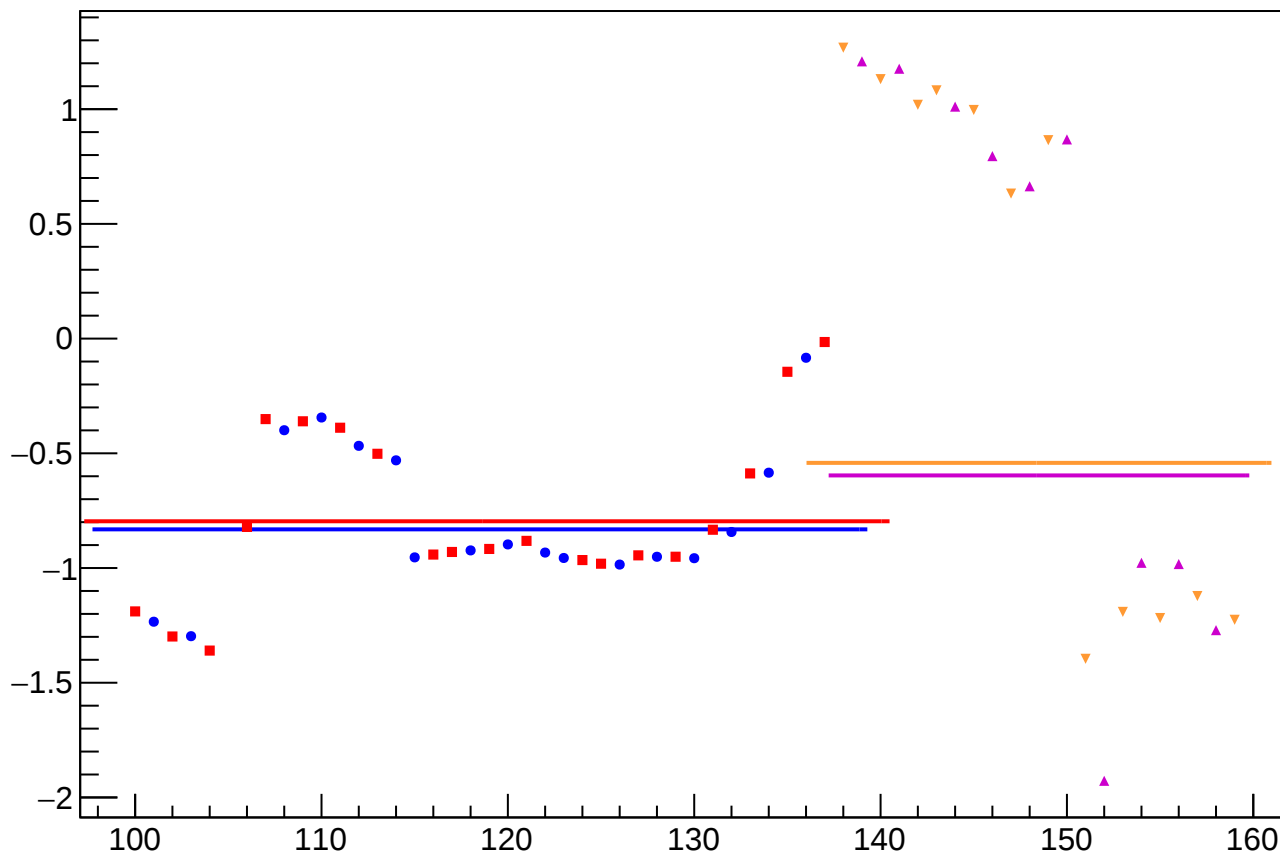
Right Out: 0.007+/-0.000 χ^2/NDF : 123383.6/19

Left In: 0.009+/-0.000 χ^2/NDF : 267421.7/9

0.008+/-0.000 χ^2/NDF : 915006.8/28

0.008+/-0.000 χ^2/NDF : 947365.8/29

yield_bpm0i01X_mean vs Slug



Right In: -0.831+/-0.000 χ^2/NDF : 6692170860.9/16

Left Out: -0.542+/-0.000 χ^2/NDF : 107539930032.1/11

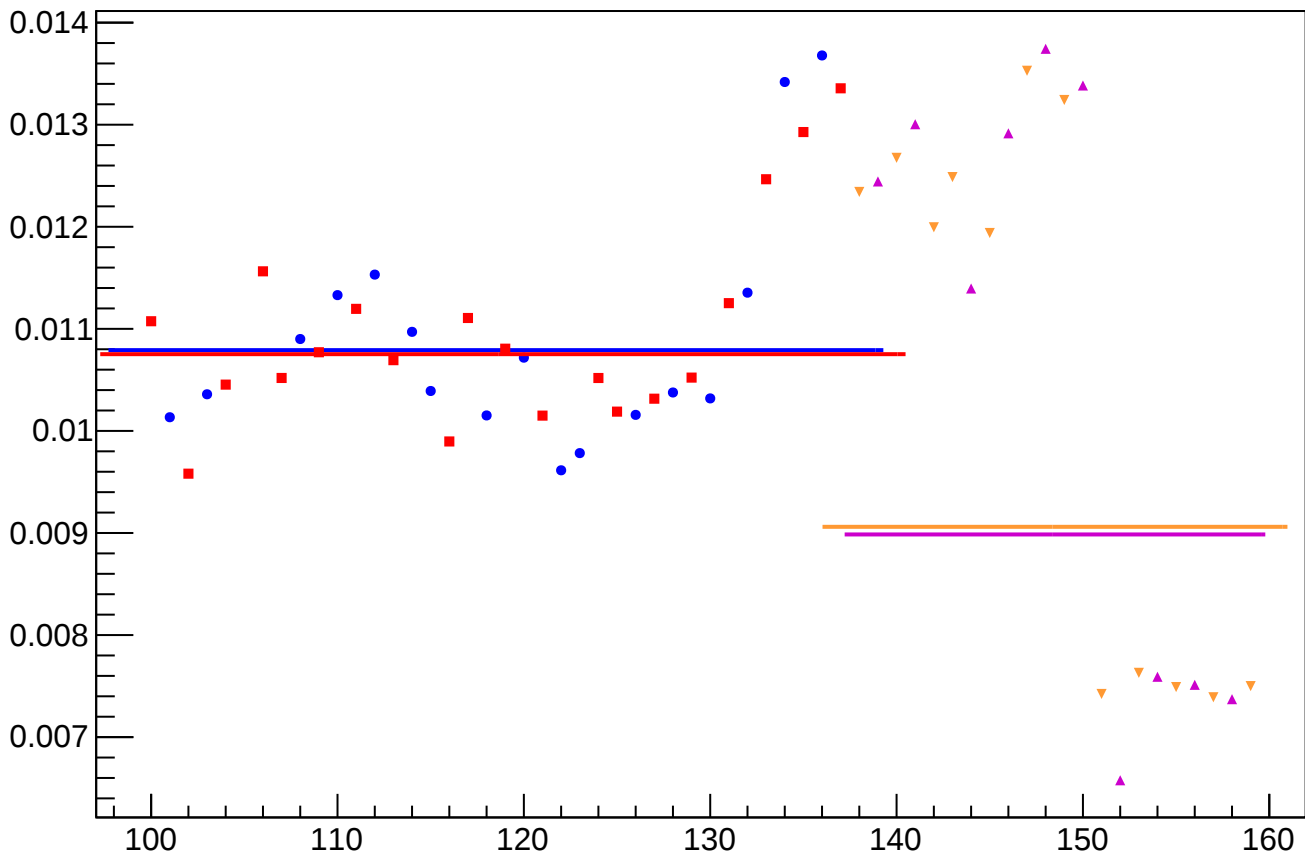
Right Out: -0.796+/-0.000 χ^2/NDF : 7827622544.3/19

Left In: -0.596+/-0.000 χ^2/NDF : 116096216547.8/9

-0.646+/-0.000 χ^2/NDF : 117257154018.6/28

-0.676+/-0.000 χ^2/NDF : 125366701977.9/29

yield_bpm0i01X_rms vs Slug



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 125802.4/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 1129738.6/11

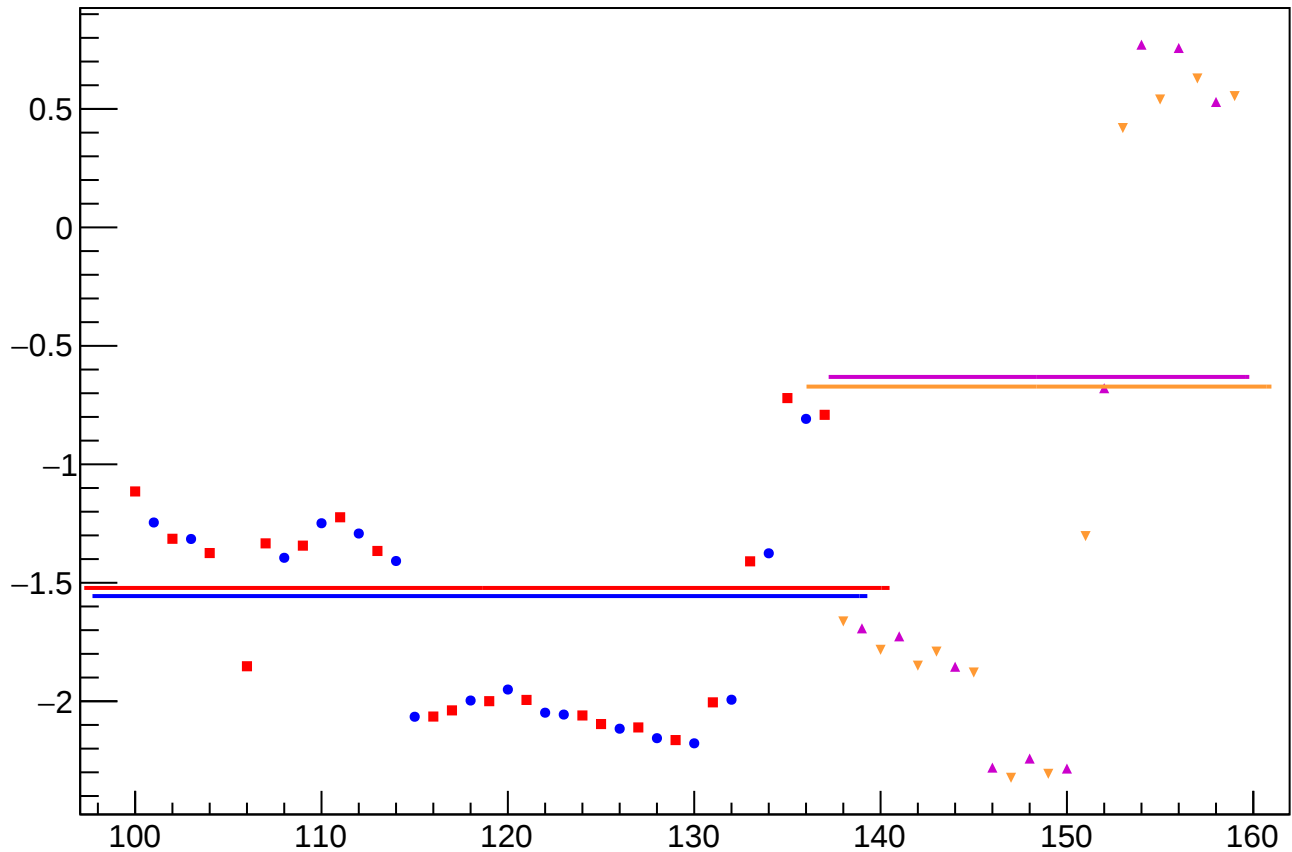
Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 90303.3/19

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1259796.8/9

0.010 $\pm$ 0.000 χ^2 /NDF: 1471375.2/28

0.010 $\pm$ 0.000 χ^2 /NDF: 1575516.0/29

yield_bpm0i01Y_mean vs Slug



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -0.672+/-0.000 χ^2/NDF : 1286906190851.8/11

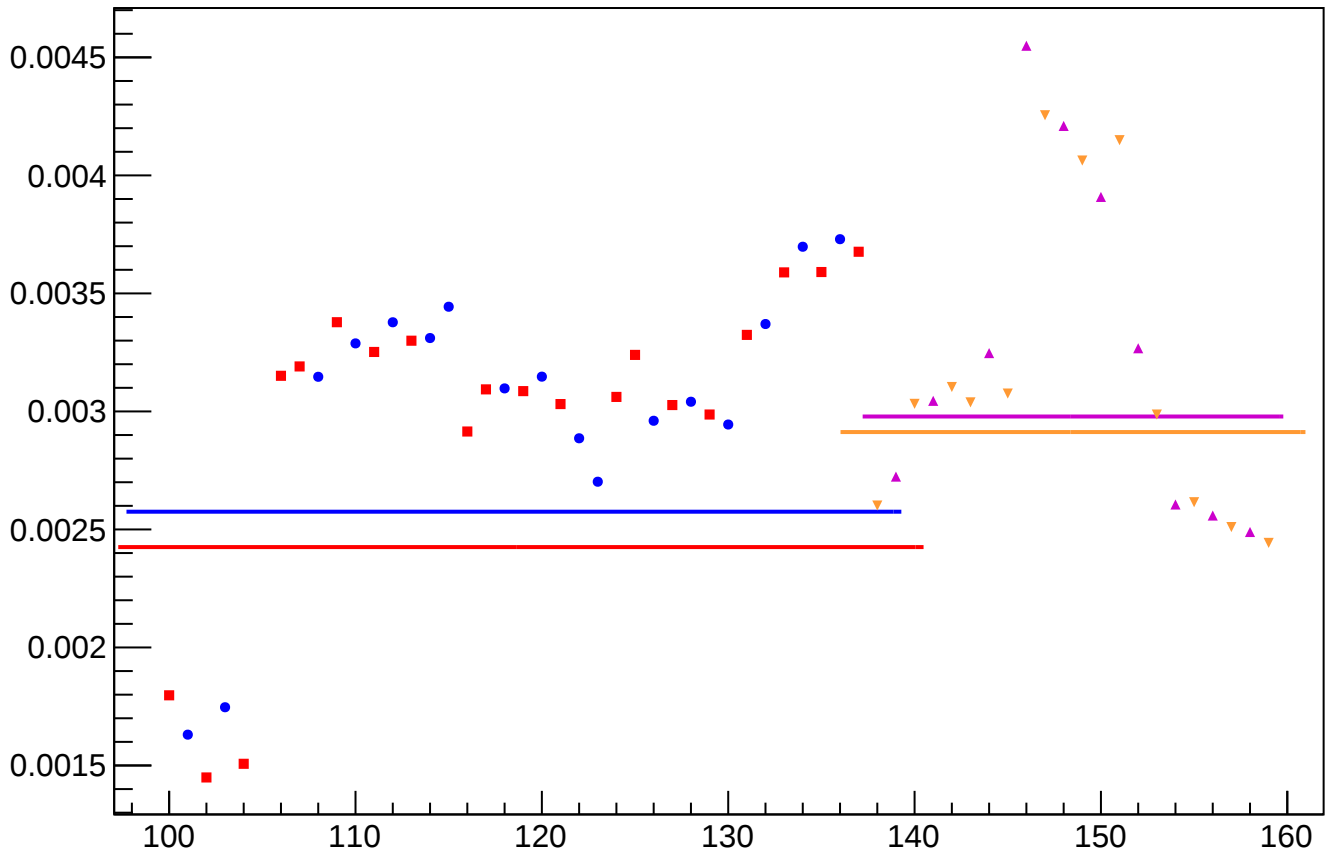
Right Out: -1.522+/-0.000 χ^2/NDF : 139385229659.4/19

Left In: -0.631+/-0.000 χ^2/NDF : 1194636022087.3/9

-1.102+/-0.000 χ^2/NDF : 1784330419091.0/28

-1.127+/-0.000 χ^2/NDF : 1675084903383.4/29

yield_bpm0i01Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.003+/-0.000 χ^2/NDF : 464578.7/11

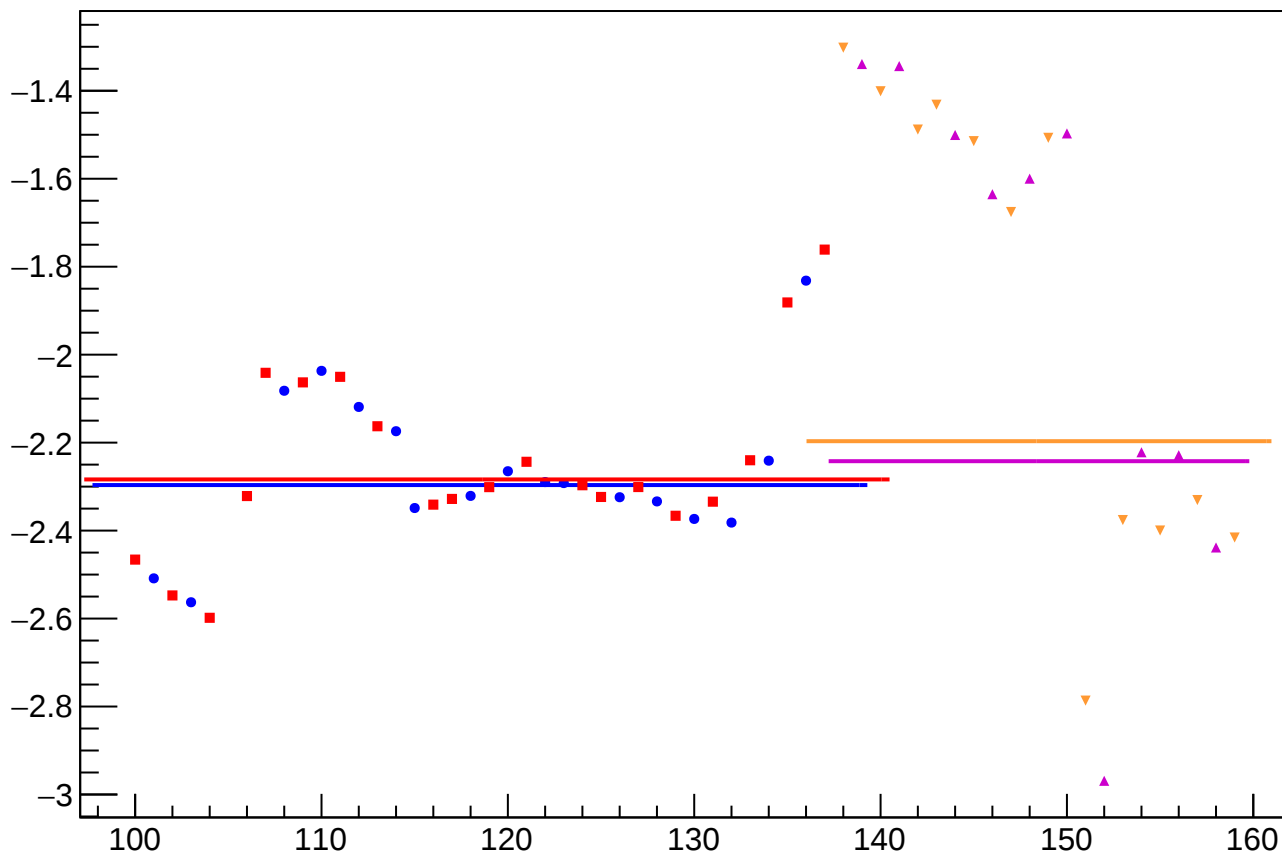
Right Out: 0.002+/-0.000 χ^2/NDF : 1493210.7/19

Left In: 0.003+/-0.000 χ^2/NDF : 471027.8/9

0.003+/-0.000 χ^2/NDF : 1578173.1/28

0.003+/-0.000 χ^2/NDF : 2227377.5/29

yield_bpm0i01aX_mean vs Slug



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.197+/-0.000 χ^2/NDF : 50893124278.1/11

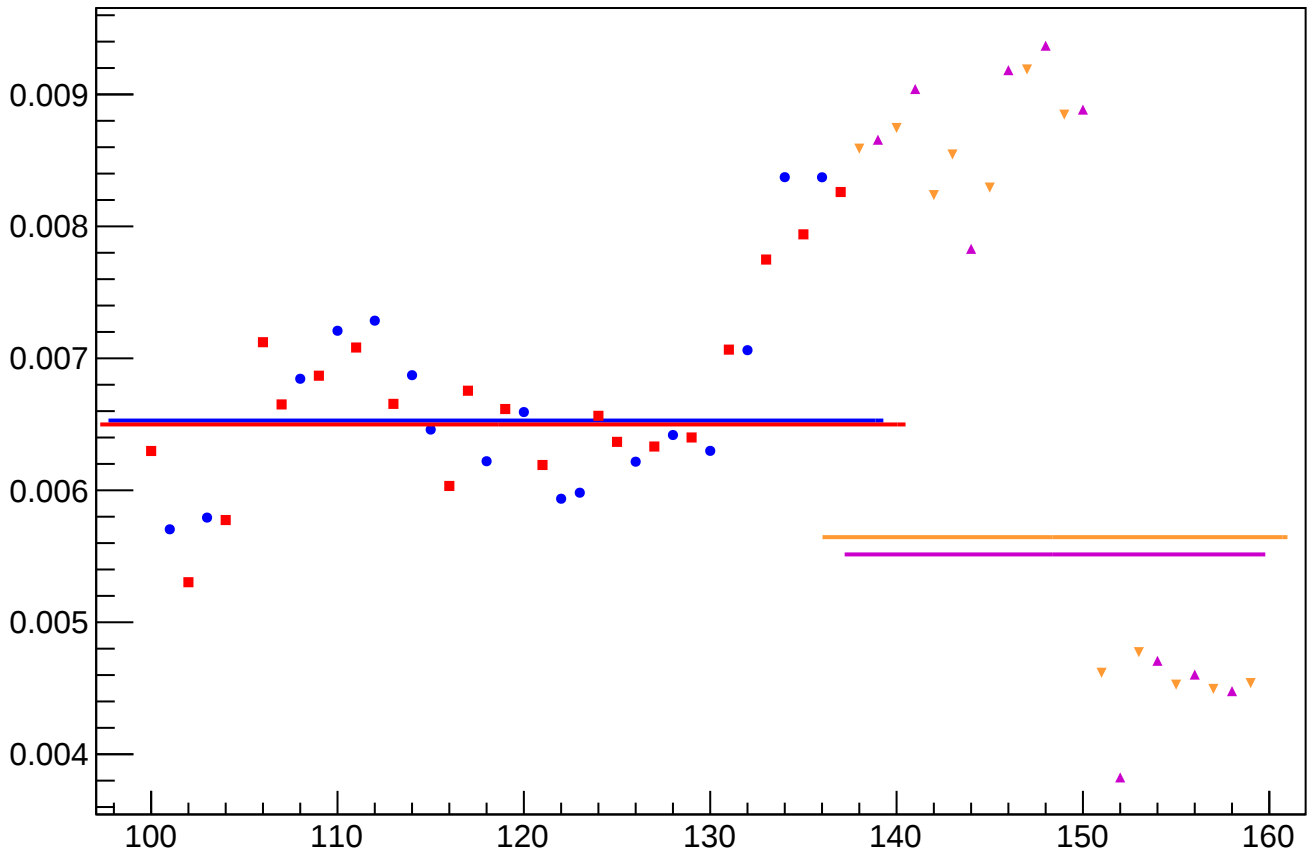
Right Out: -2.284+/-0.000 χ^2/NDF : 6550363990.6/19

Left In: -2.242+/-0.000 χ^2/NDF : 65501199603.1/9

-2.235+/-0.000 χ^2/NDF : 57607645459.1/28

-2.259+/-0.000 χ^2/NDF : 72213901714.2/29

yield_bpm0i01aX_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.006+/-0.000 χ^2/NDF :1567866.2/11

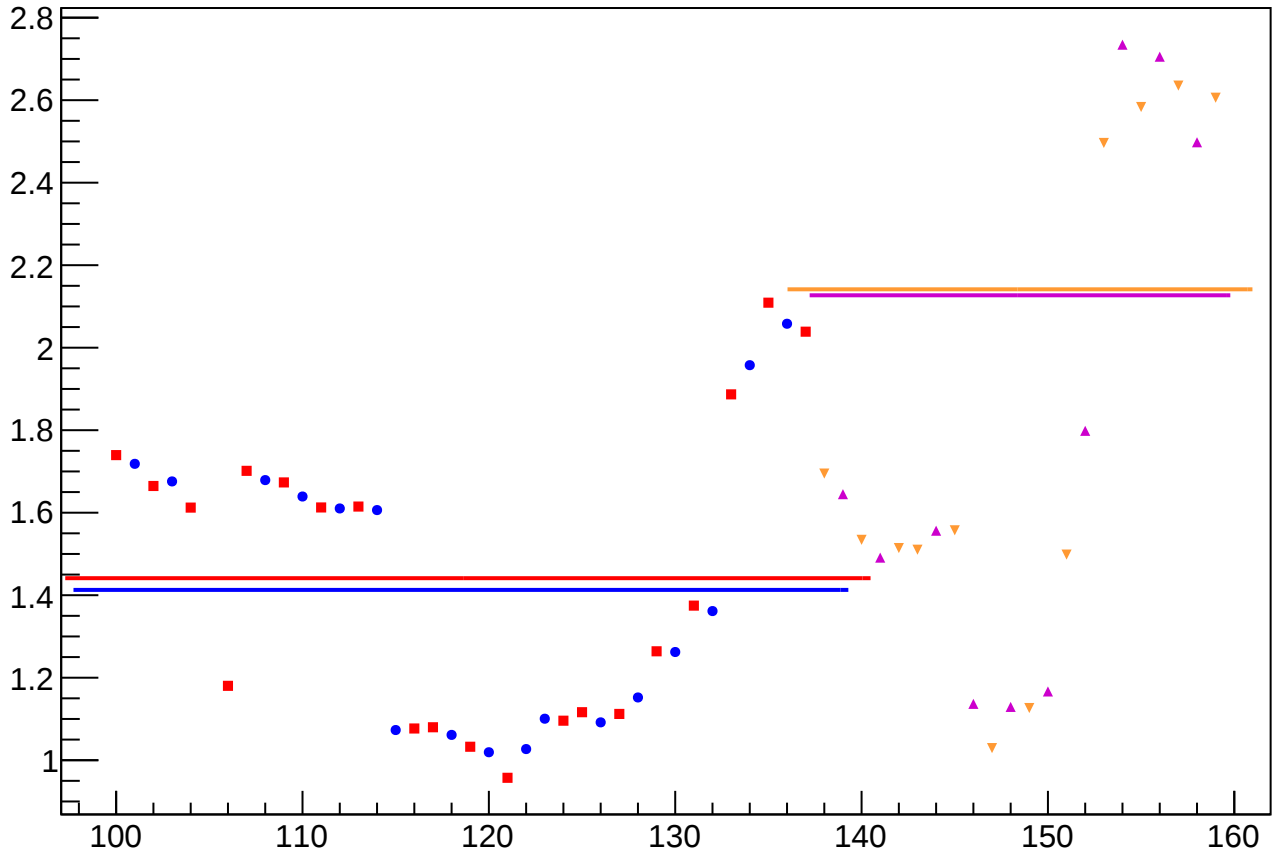
Right Out: 0.006+/-0.000 χ^2/NDF : 164253.8/19

Left In: 0.006+/-0.000 χ^2/NDF :1796893.7/9

0.006+/-0.000 χ^2/NDF : 1890537.3/28

0.006+/-0.000 χ^2/NDF : 2144215.9/29

yield_bpm0i01aY_mean vs Slug



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.142+/-0.000 χ^2/NDF : 141951272525.0/11

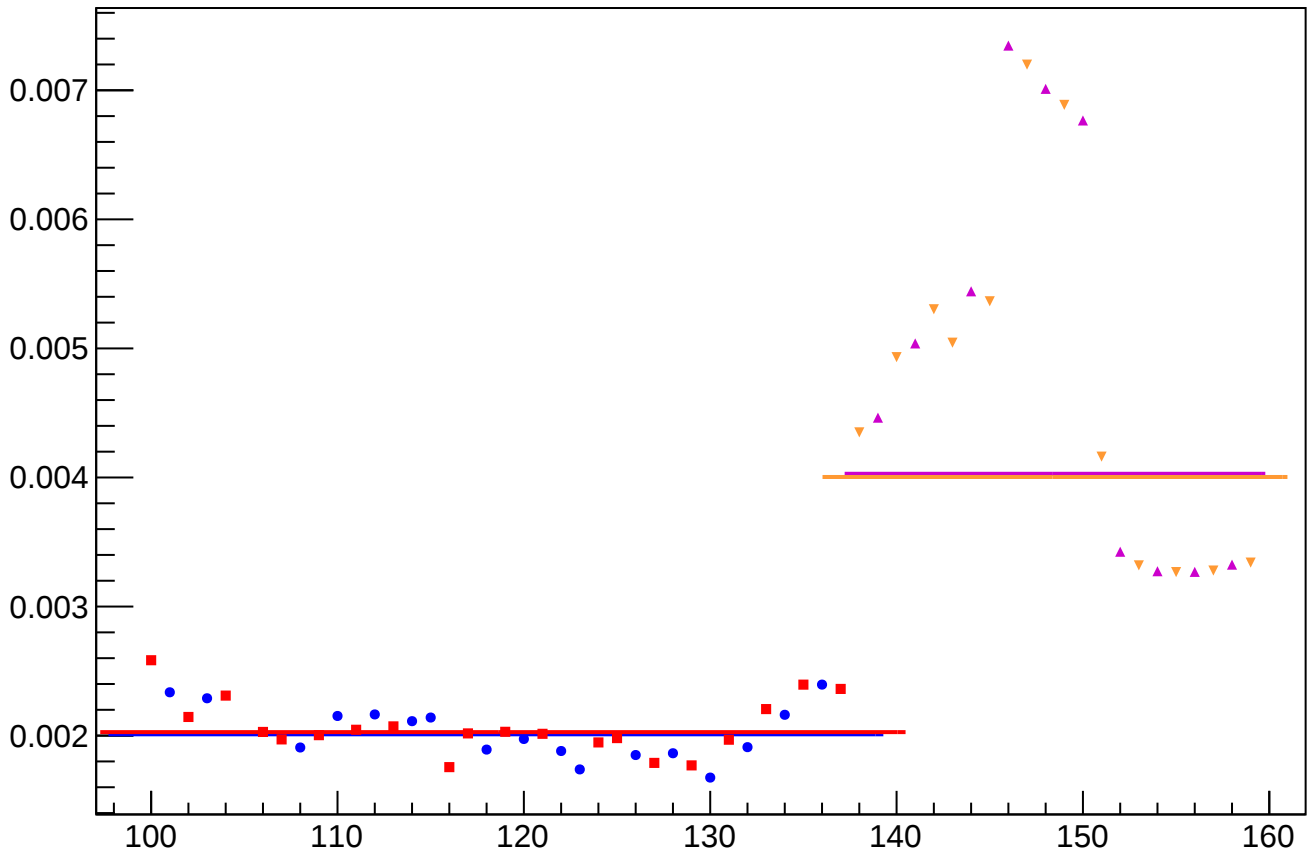
1.587+/-0.000 χ^2/NDF : 508246785125.8/28

Right Out: 1.441+/-0.000 χ^2/NDF : 174346888744.4/19

1.585+/-0.000 χ^2/NDF : 466937465083.3/29

Left In: 2.127+/-0.000 χ^2/NDF : 136511915781.8/9

yield_bpm0i01aY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :994323.0/11

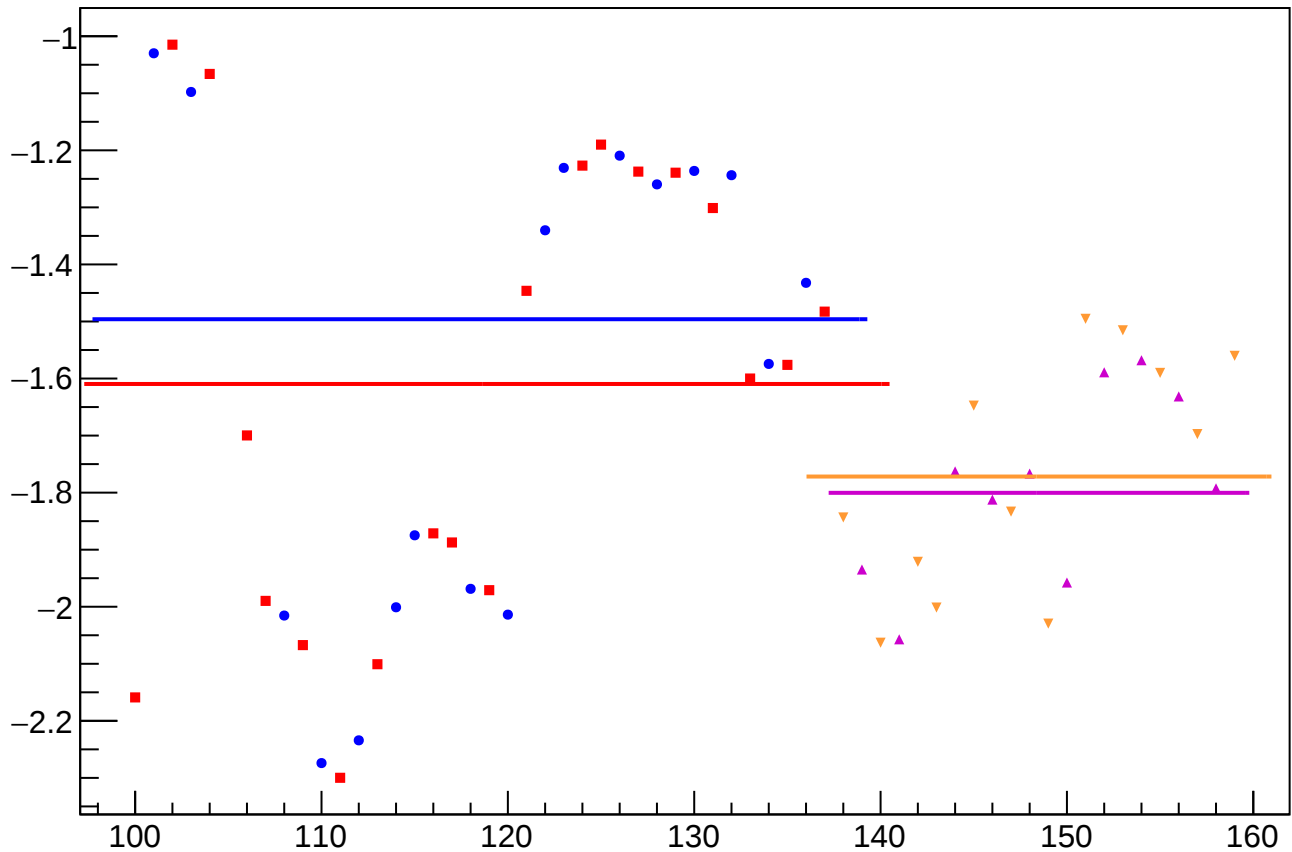
Right Out: 0.002+/-0.000 χ^2/NDF : 103927.8/19

Left In: 0.004+/-0.000 χ^2/NDF :1175584.4/9

0.002+/-0.000 χ^2/NDF : 4047567.6/28

0.002+/-0.000 χ^2/NDF : 3938961.4/29

yield_bpm0l01X_mean vs Slug



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.772+/-0.000 χ^2/NDF : 9619469586.4/11

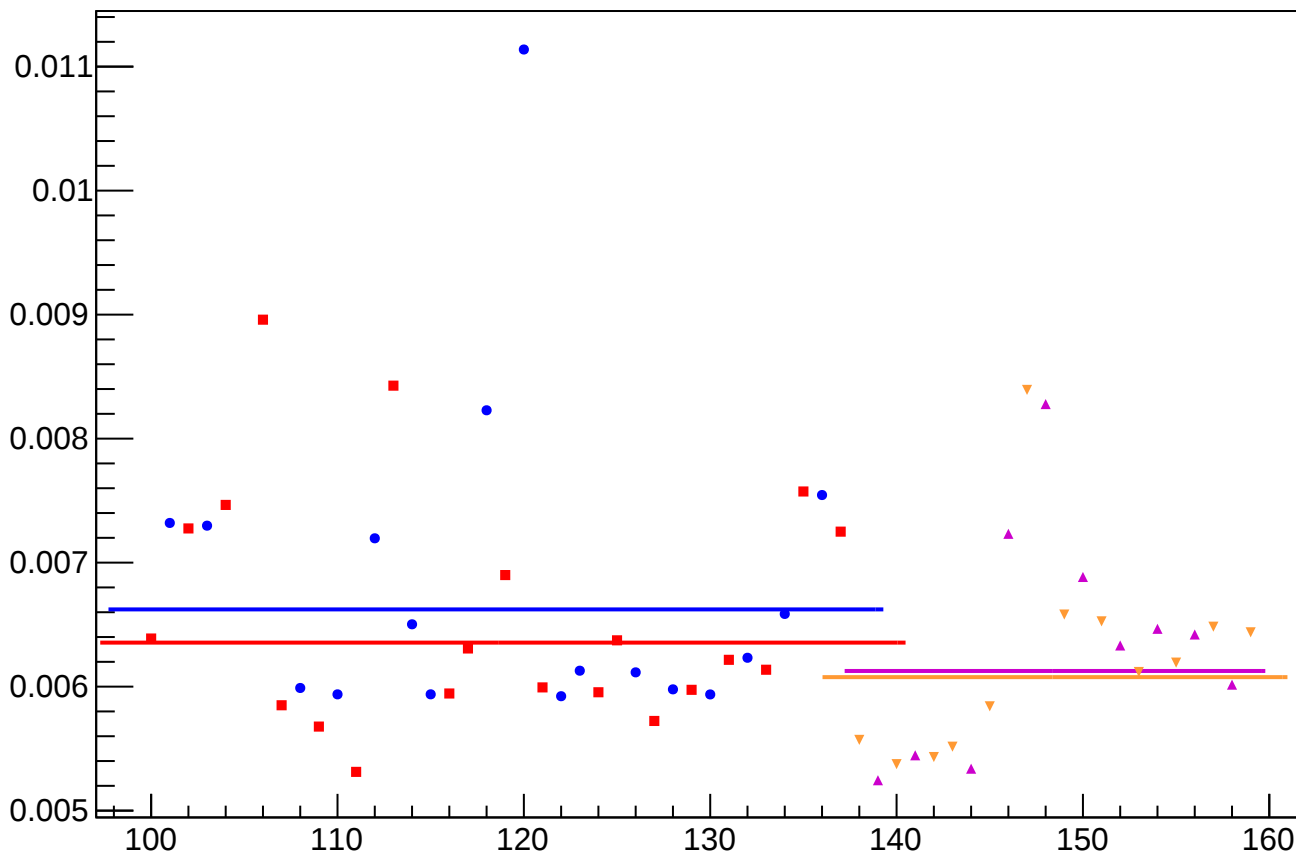
-1.667+/-0.000 χ^2/NDF : 38693632148.6/28

Right Out: -1.610+/-0.000 χ^2/NDF : 27919840690.9/19

-1.714+/-0.000 χ^2/NDF : 36347002844.8/29

Left In: -1.800+/-0.000 χ^2/NDF : 5146940146.9/9

yield_bpm0l01X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :198735.3/11

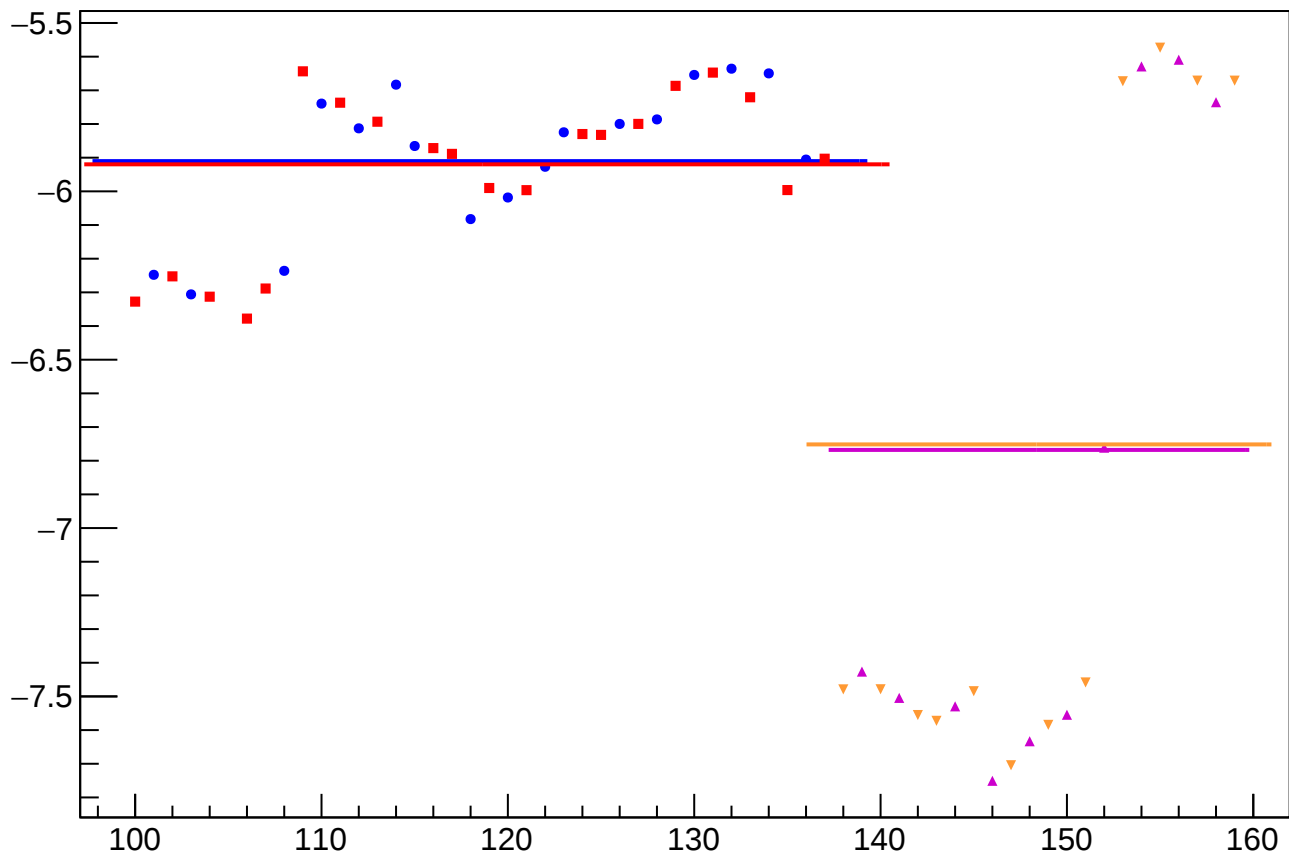
Right Out: 0.006+/-0.000 χ^2/NDF : 227865.9/19

Left In: 0.006+/-0.000 χ^2/NDF :257135.3/9

0.006+/-0.000 χ^2/NDF : 482777.2/28

0.006+/-0.000 χ^2/NDF : 494424.9/29

yield_bpm0l01Y_mean vs Slug



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.752+/-0.000 χ^2/NDF : 101000655742.1/11

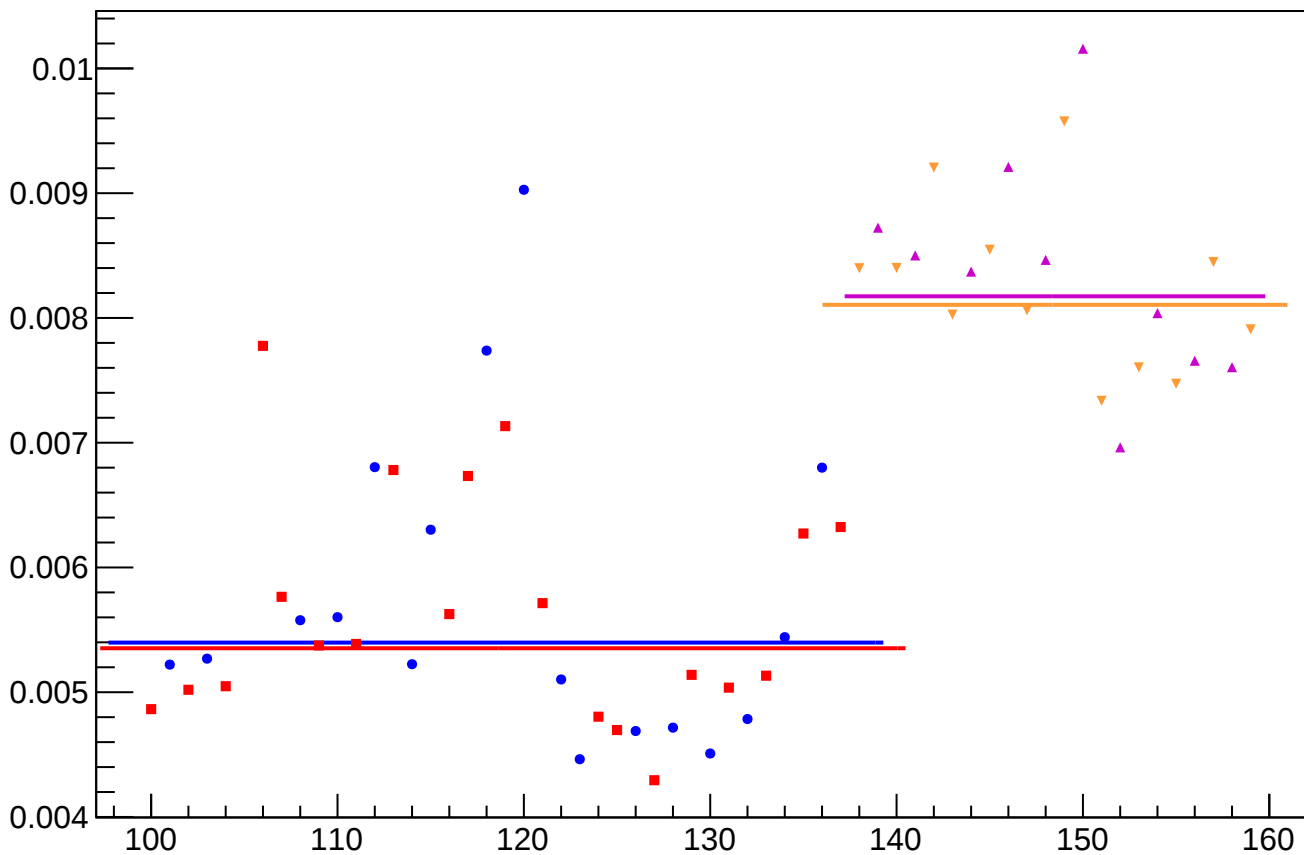
Right Out: -5.920+/-0.000 χ^2/NDF : 12786449843.6/19

Left In: -6.768+/-0.000 χ^2/NDF : 79756424636.2/9

-6.216+/-0.000 χ^2/NDF : 164316963689.4/28

-6.191+/-0.000 χ^2/NDF : 143993461504.9/29

yield_bpm0l01Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :83247.2/11

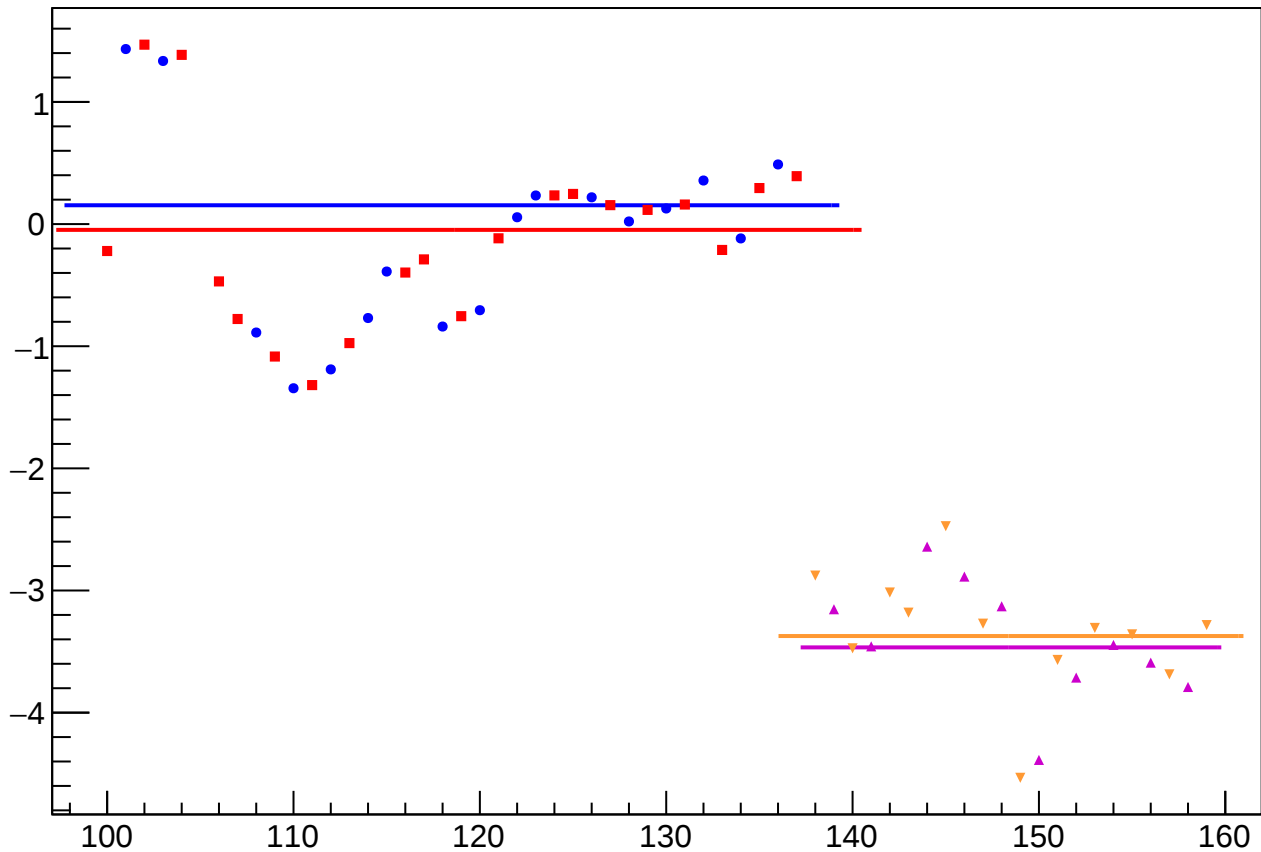
Right Out: 0.005+/-0.000 χ^2/NDF : 252664.1/19

Left In: 0.008+/-0.000 χ^2/NDF :140904.6/9

0.006+/-0.000 χ^2/NDF : 1534780.1/28

0.006+/-0.000 χ^2/NDF : 1532144.7/29

yield_bpm0l02X_mean vs Slug



Right In: 0.154 $\pm$ 0.000 χ^2 /NDF: 16988256953.8/16

Left Out: -3.373 $\pm$ 0.000 χ^2 /NDF: 6945137026.1/11

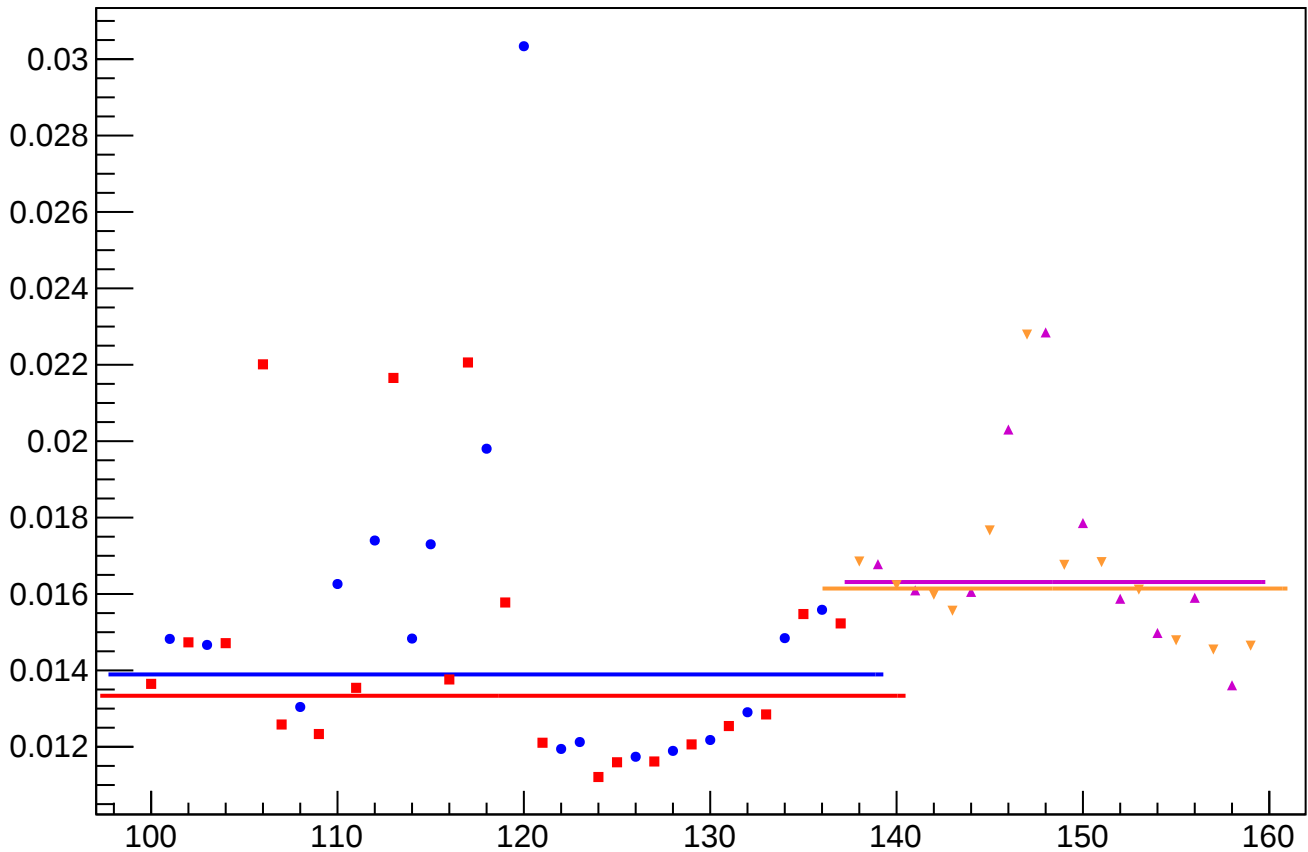
-1.658 $\pm$ 0.000 χ^2 /NDF: 219977310353.3/28

Right Out: -0.047 $\pm$ 0.000 χ^2 /NDF: 21216074494.2/19

-1.545 $\pm$ 0.000 χ^2 /NDF: 214110085554.2/29

Left In: -3.466 $\pm$ 0.000 χ^2 /NDF: 5958224424.9/9

yield_bpm0l02X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :187600.7/11

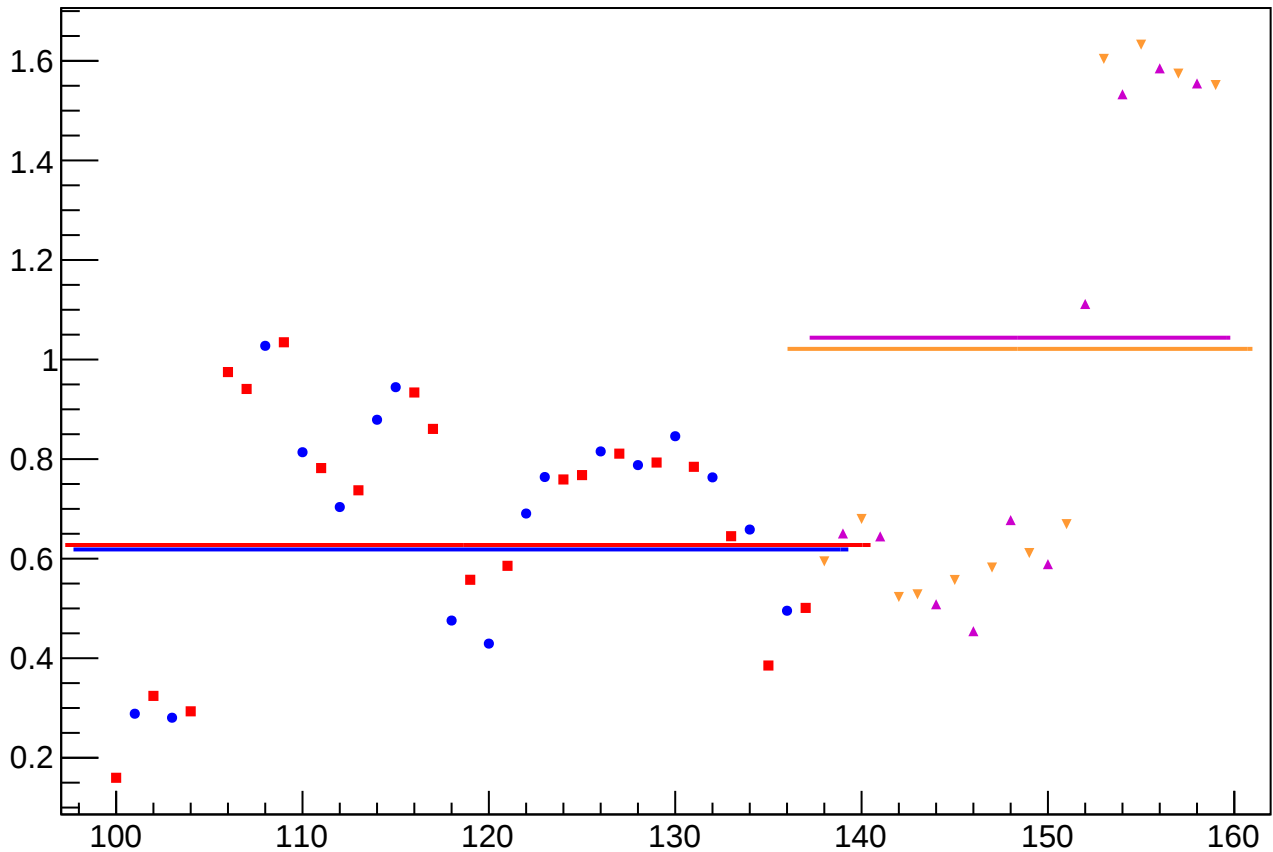
Right Out: 0.013+/-0.000 χ^2/NDF : 303459.9/19

Left In: 0.016+/-0.000 χ^2/NDF :265634.6/9

0.015+/-0.000 χ^2/NDF : 747534.3/28

0.015+/-0.000 χ^2/NDF : 852730.9/29

yield_bpm0l02Y_mean vs Slug



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.021+/-0.000 χ^2/NDF : 38951683836.0/11

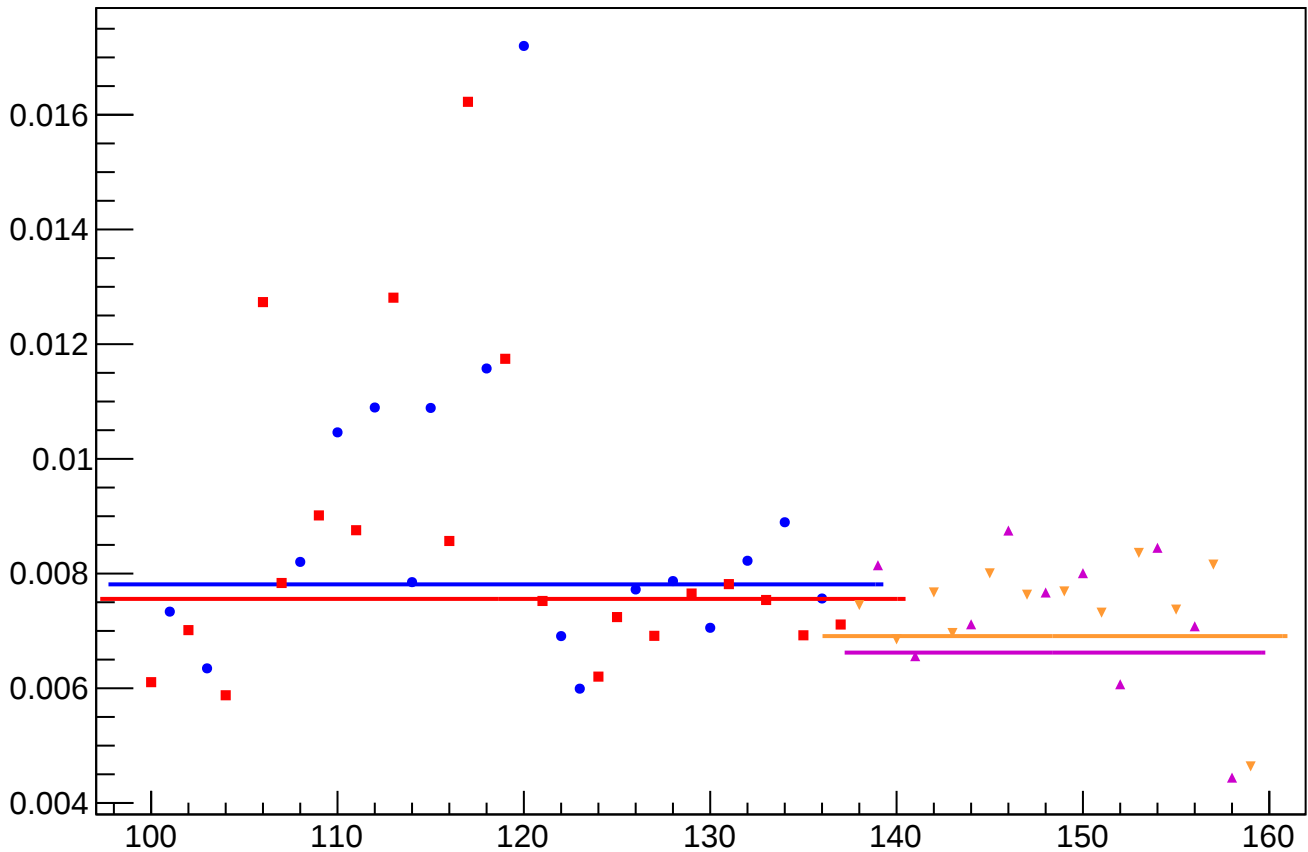
Right Out: 0.627+/-0.000 χ^2/NDF : 6345684740.0/19

Left In: 1.044+/-0.000 χ^2/NDF : 33676180469.0/9

0.874+/-0.000 χ^2/NDF : 54184713839.6/28

0.878+/-0.000 χ^2/NDF : 51362941074.8/29

yield_bpm0l02Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.007+/-0.000 χ^2/NDF : 528371.4/11

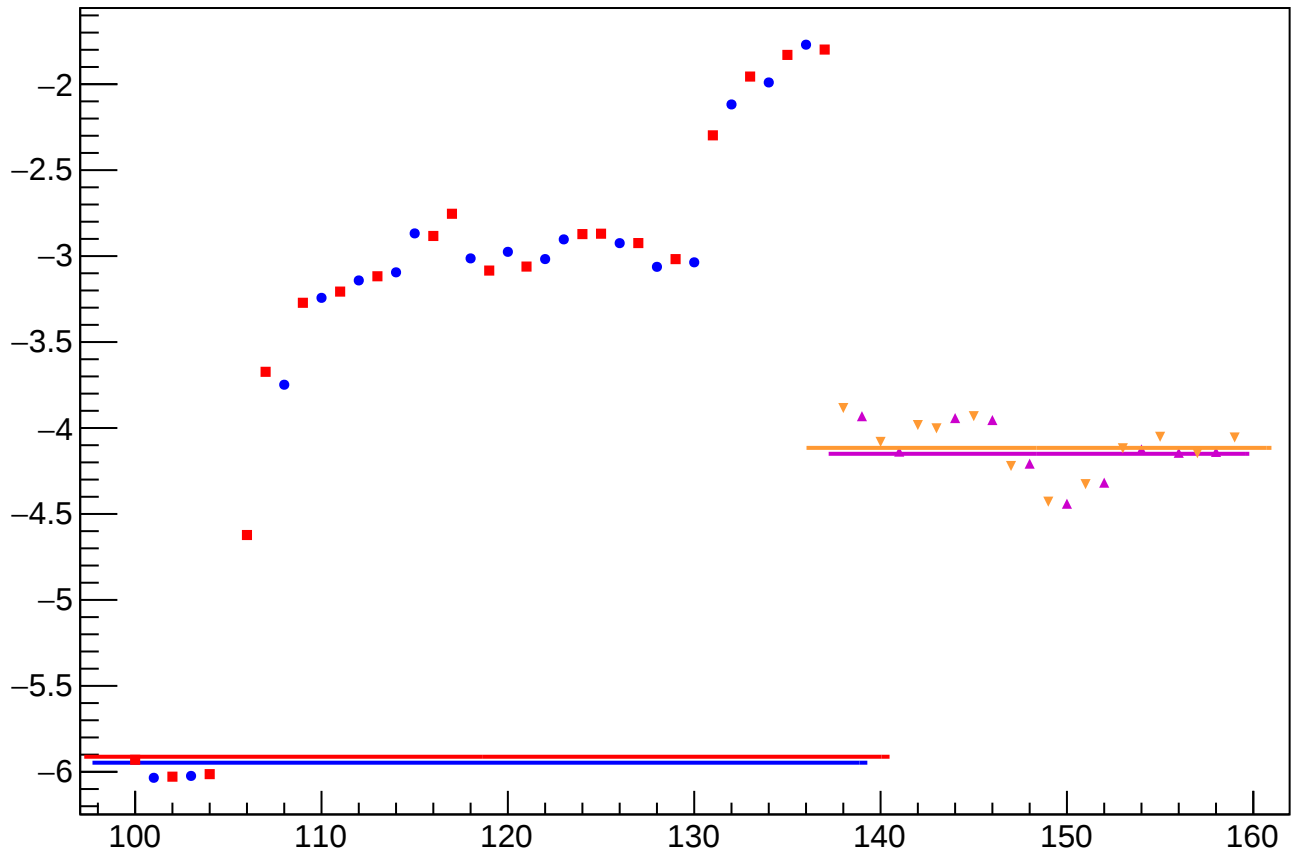
Right Out: 0.008+/-0.000 χ^2/NDF : 463232.7/19

Left In: 0.007+/-0.000 χ^2/NDF : 680304.0/9

0.007+/-0.000 χ^2/NDF : 1093608.9/28

0.007+/-0.000 χ^2/NDF : 1258213.3/29

yield_bpm0l03X_mean vs Slug



Right In: -5.947+/-0.000 χ^2 /NDF: 13165963559.5/16

Left Out: -4.116+/-0.000 χ^2 /NDF: 29562880.8/11

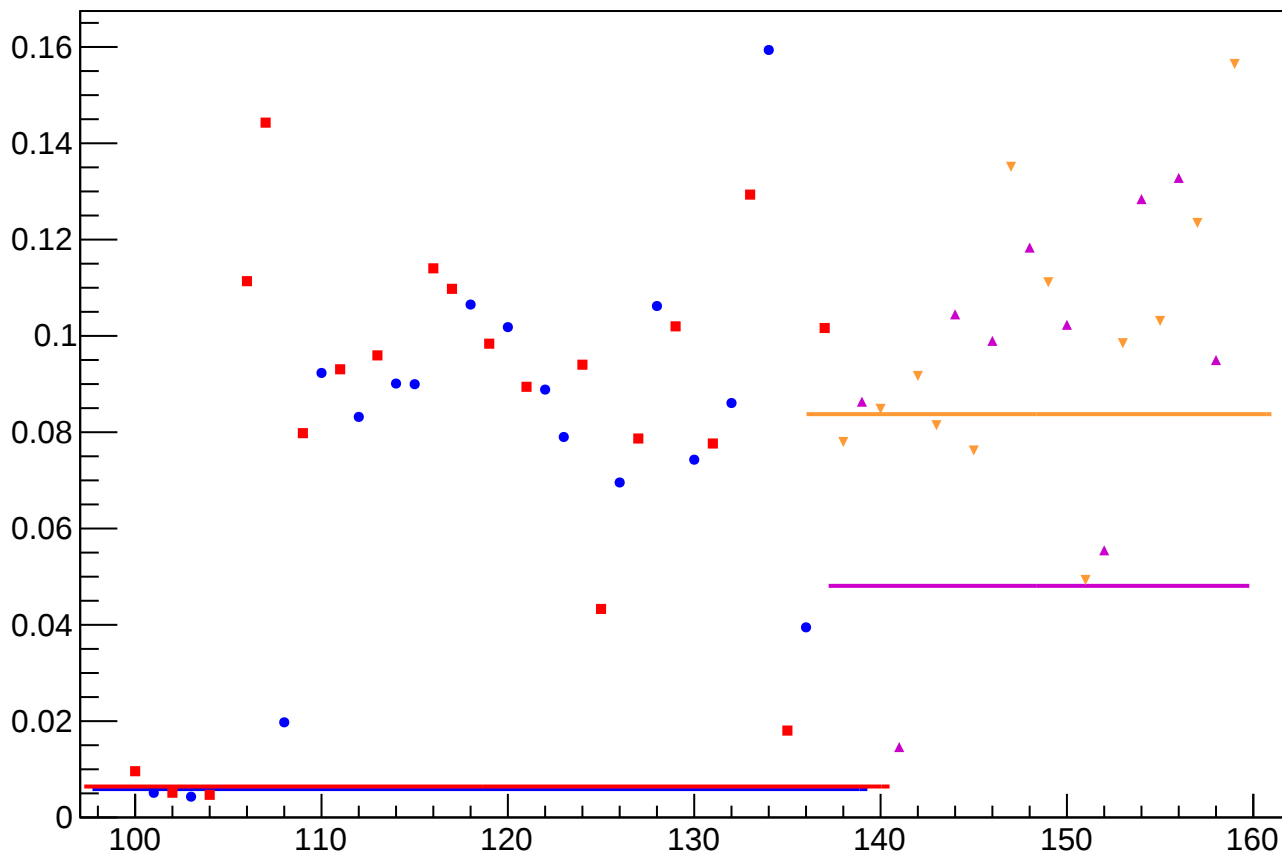
-5.909+/-0.000 χ^2 /NDF: 16515776893.2/28

Right Out: -5.912+/-0.000 χ^2 /NDF: 14648055548.9/19

-5.843+/-0.000 χ^2 /NDF: 19337885913.1/29

Left In: -4.150+/-0.000 χ^2 /NDF: 20969250.4/9

yield_bpm0l03X_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.084+/-0.000 χ^2/NDF : 1376515.0/11

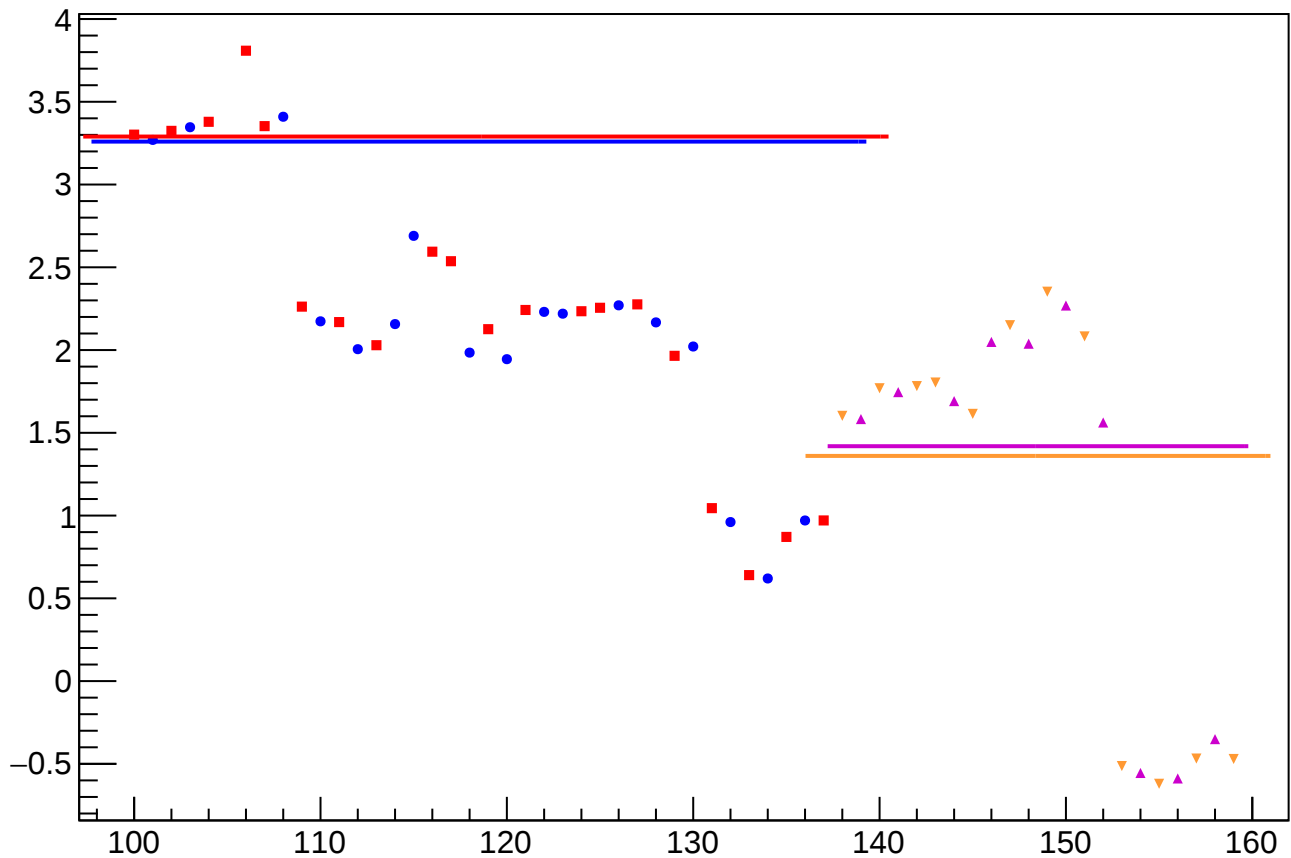
Right Out: 0.006+/-0.000 χ^2/NDF : 8558731.2/19

Left In: 0.048+/-0.000 χ^2/NDF : 5330873.0/9

0.008+/-0.000 χ^2/NDF : 21314185.8/28

0.008+/-0.000 χ^2/NDF : 19111350.8/29

yield_bpm0l03Y_mean vs Slug



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 1.360+/-0.000 χ^2/NDF : 963447575.9/11

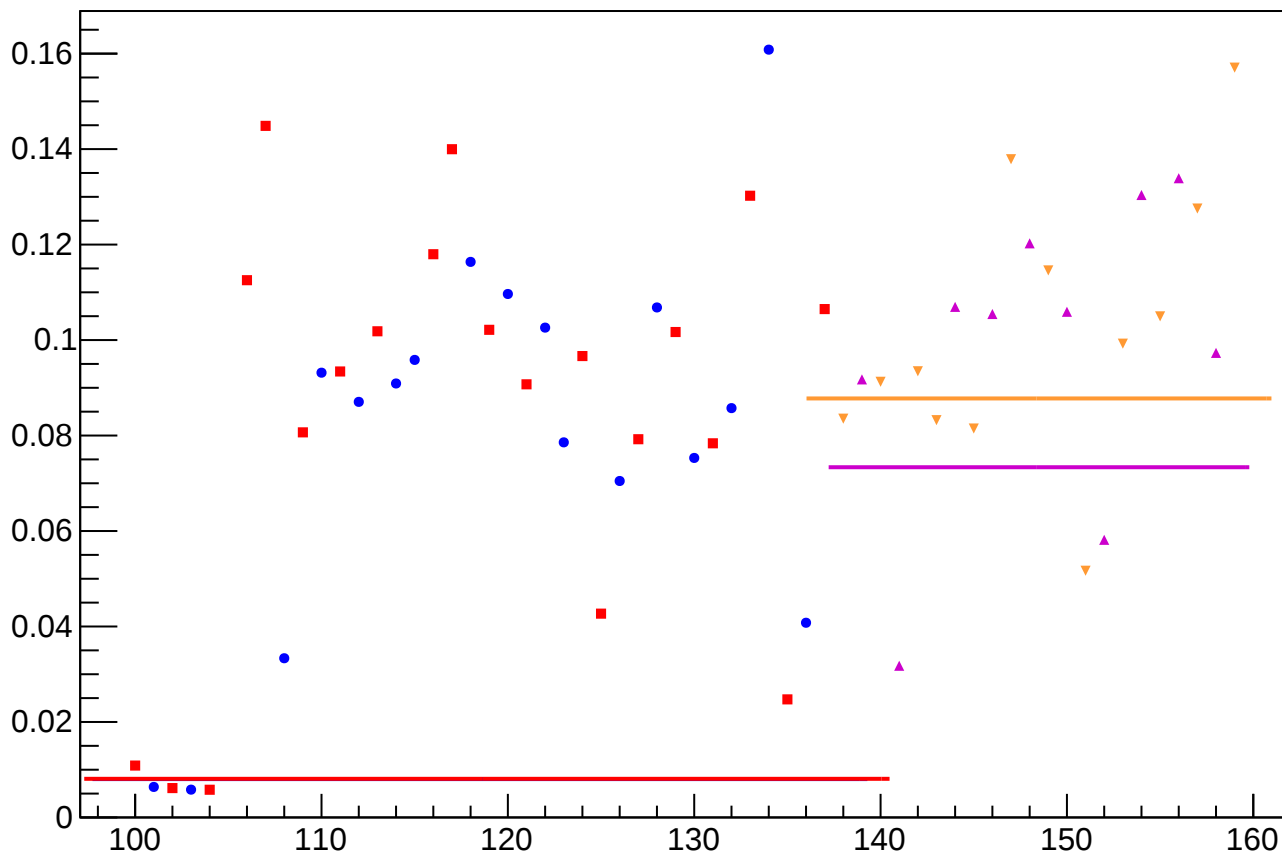
Right Out: 3.290+/-0.000 χ^2/NDF : 3263300926.6/19

Left In: 1.419+/-0.000 χ^2/NDF : 673961111.4/9

3.200+/-0.000 χ^2/NDF : 7129365975.5/28

3.224+/-0.000 χ^2/NDF : 7197411904.2/29

yield_bpm0l03Y_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.088 $\pm$ 0.000 χ^2 /NDF:1272101.7/11

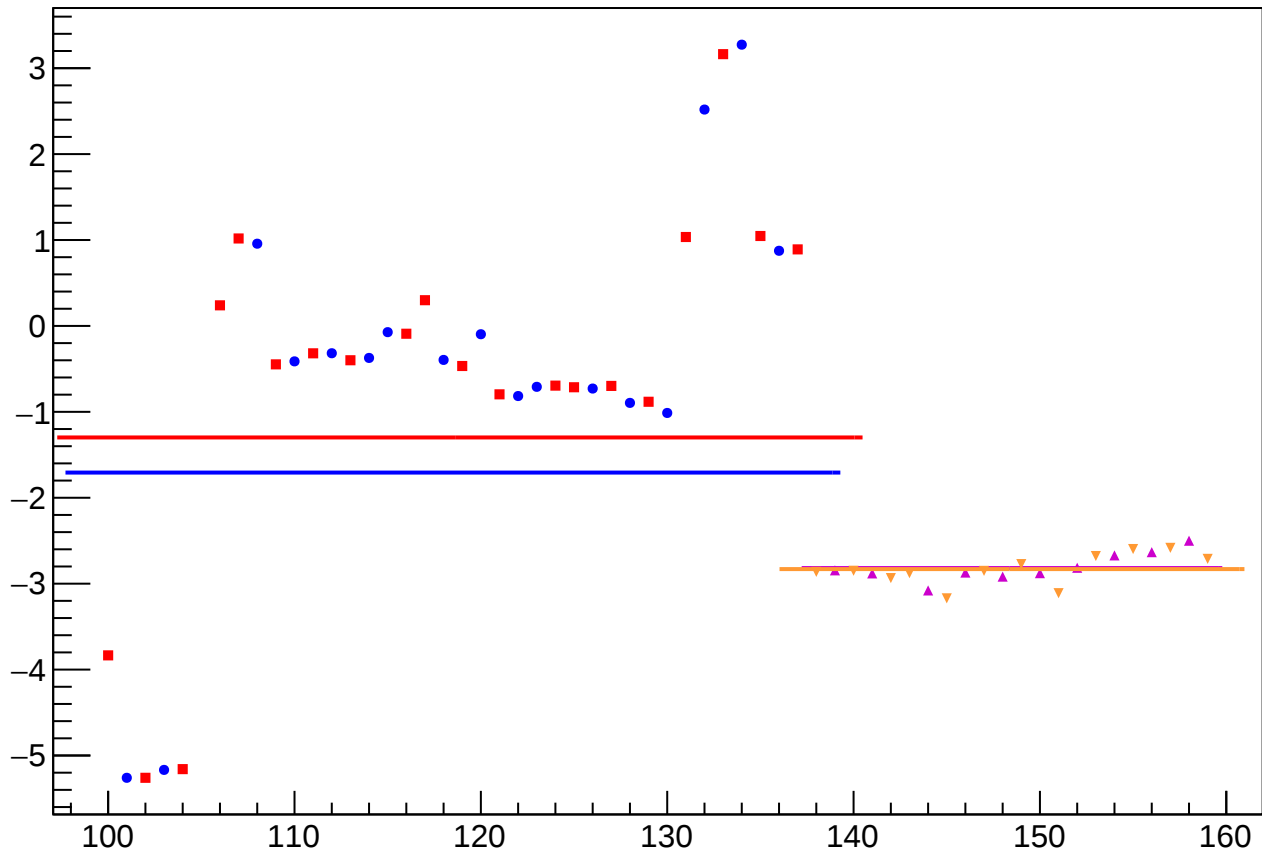
Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8375005.0/19

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:2494042.1/9

0.011 $\pm$ 0.000 χ^2 /NDF: 20450390.1/28

0.010 $\pm$ 0.000 χ^2 /NDF: 18805324.3/29

yield_bpm0l04X_mean vs Slug



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.830+/-0.000 χ^2/NDF : 4308571896.5/11

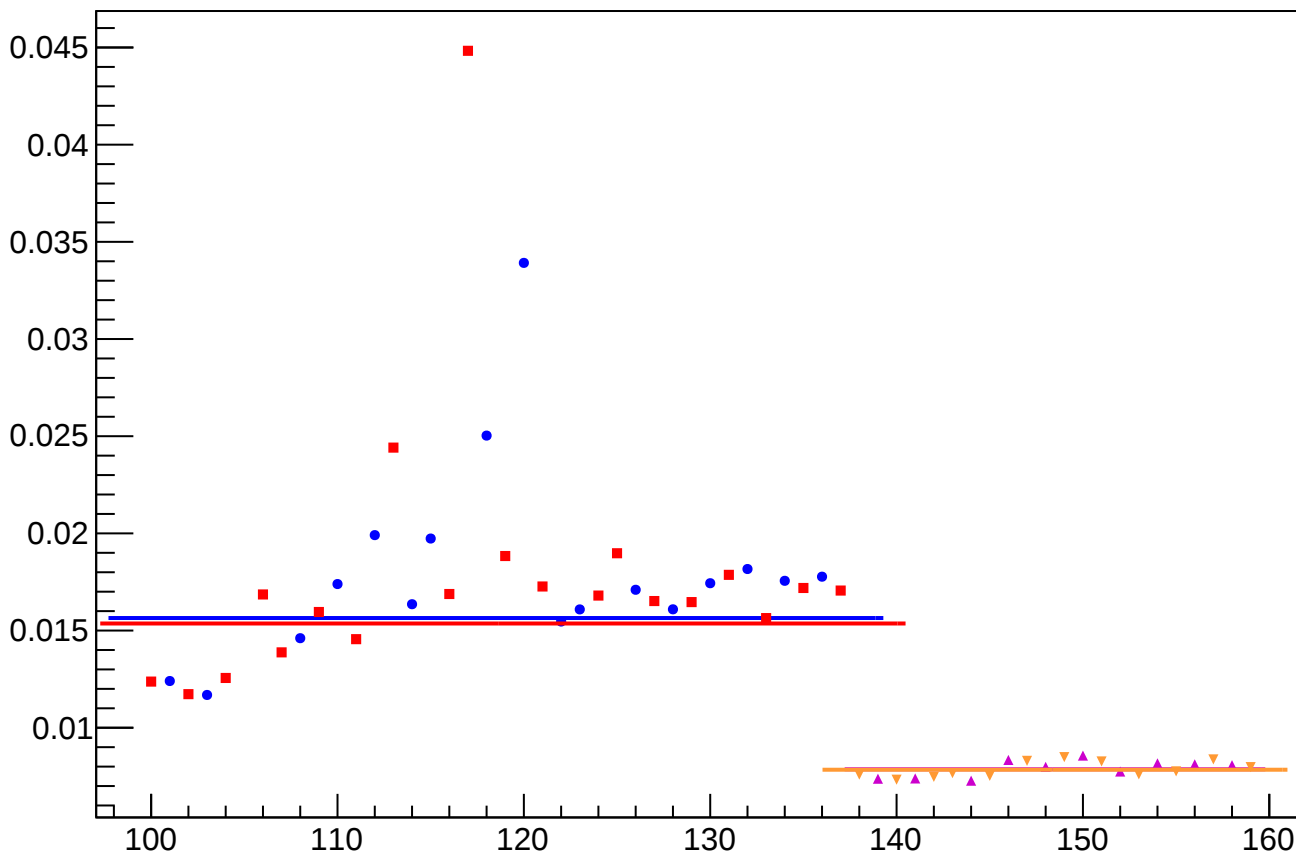
-2.671+/-0.000 χ^2/NDF : 195241496030.4/28

Right Out: -1.298+/-0.000 χ^2/NDF : 178085926993.4/19

-2.555+/-0.000 χ^2/NDF : 231602655541.3/29

Left In: -2.818+/-0.000 χ^2/NDF : 3197098185.5/9

yield_bpm0l04X_rms vs Slug



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 39567.6/11

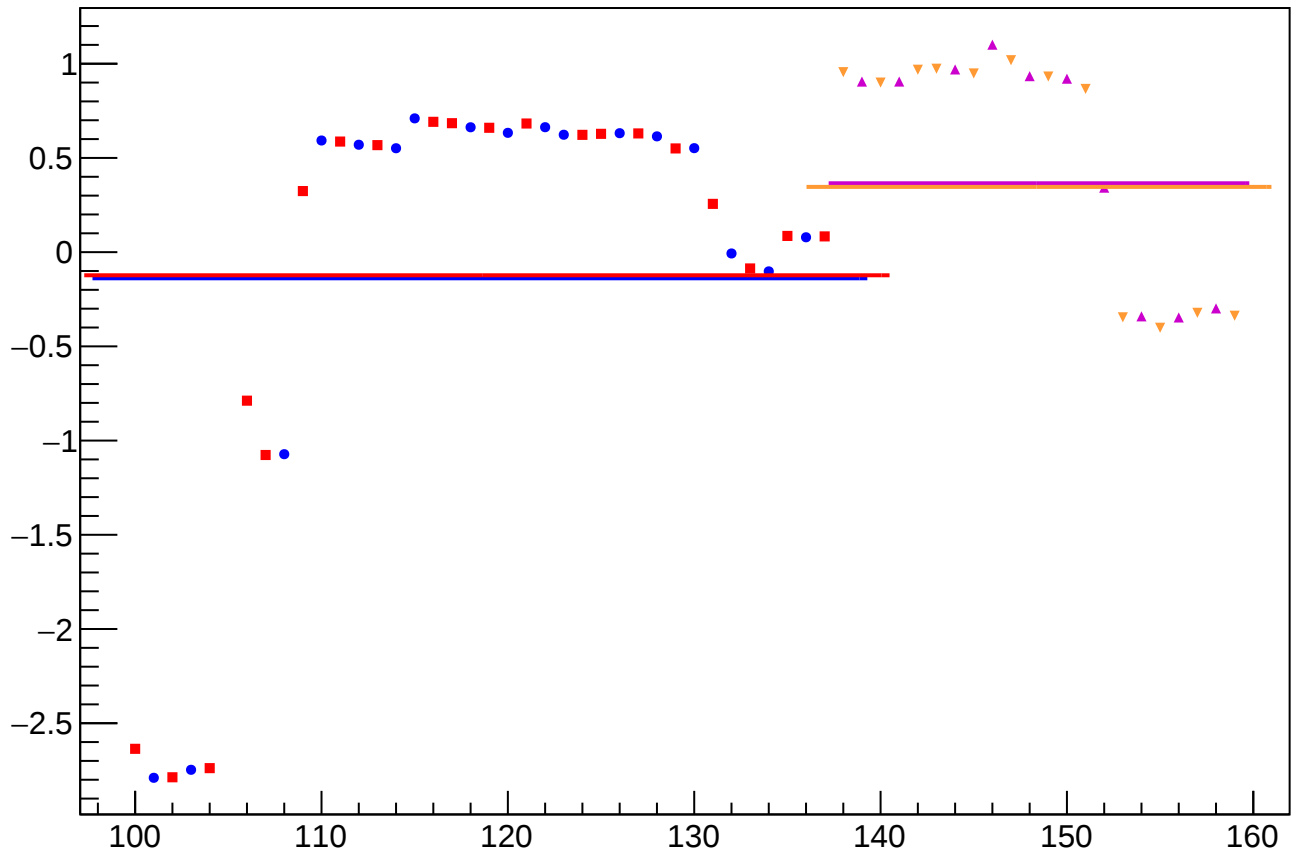
Right Out: 0.015+/-0.000 χ^2/NDF : 387283.2/19

Left In: 0.008+/-0.000 χ^2/NDF : 45013.8/9

0.009+/-0.000 χ^2/NDF : 3013077.9/28

0.009+/-0.000 χ^2/NDF : 2883621.5/29

yield_bpm0l04Y_mean vs Slug



Right In: -0.139 ± 0.000 $\chi^2/\text{NDF}: 715049983856.2/16$

Left Out: 0.346 ± 0.000 $\chi^2/\text{NDF}: 82933941086.2/11$

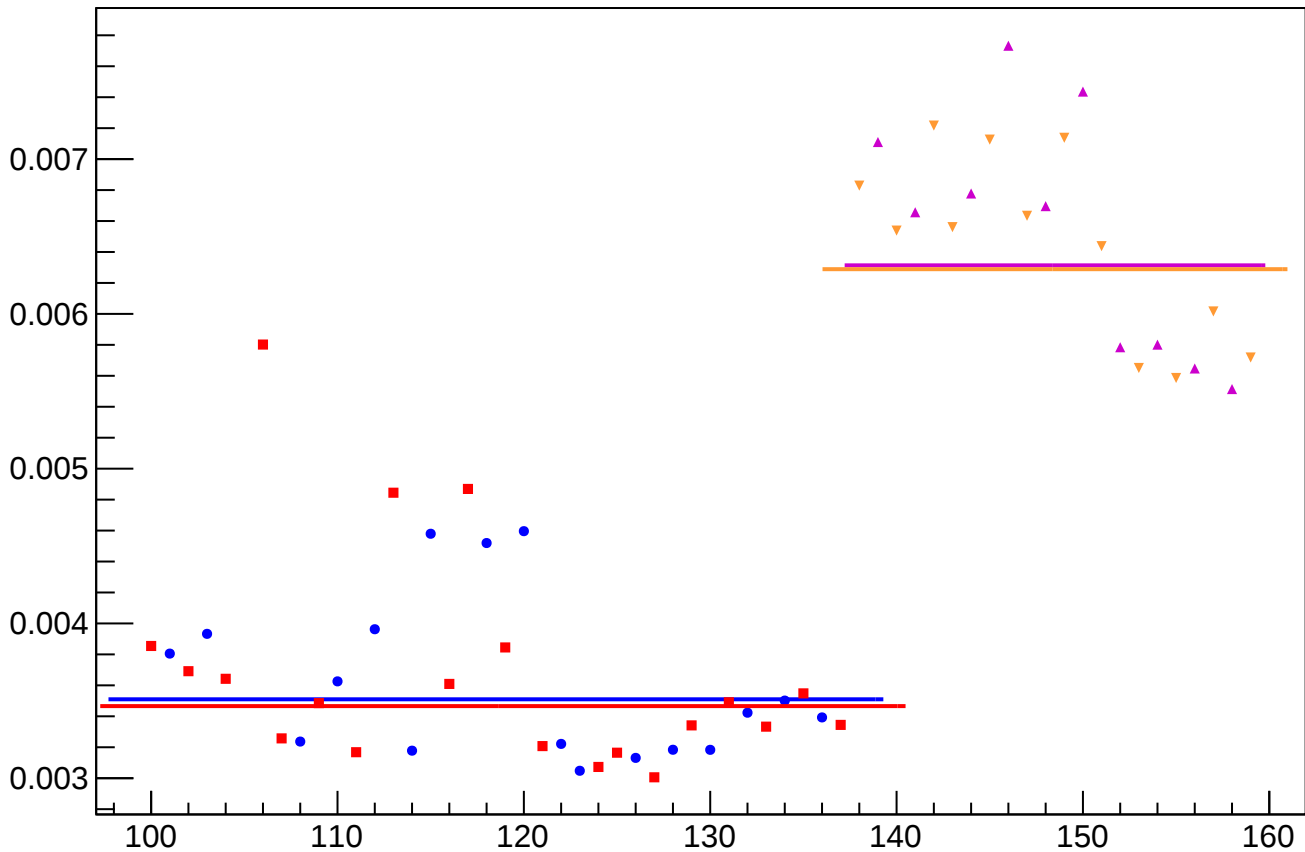
-0.003 ± 0.000 $\chi^2/\text{NDF}: 831632552788.2/28$

Right Out: -0.123 ± 0.000 $\chi^2/\text{NDF}: 762580598699.5/19$

-0.004 ± 0.000 $\chi^2/\text{NDF}: 859776827322.5/29$

Left In: 0.366 ± 0.000 $\chi^2/\text{NDF}: 64518678514.0/9$

yield_bpm0l04Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF :127750.3/11

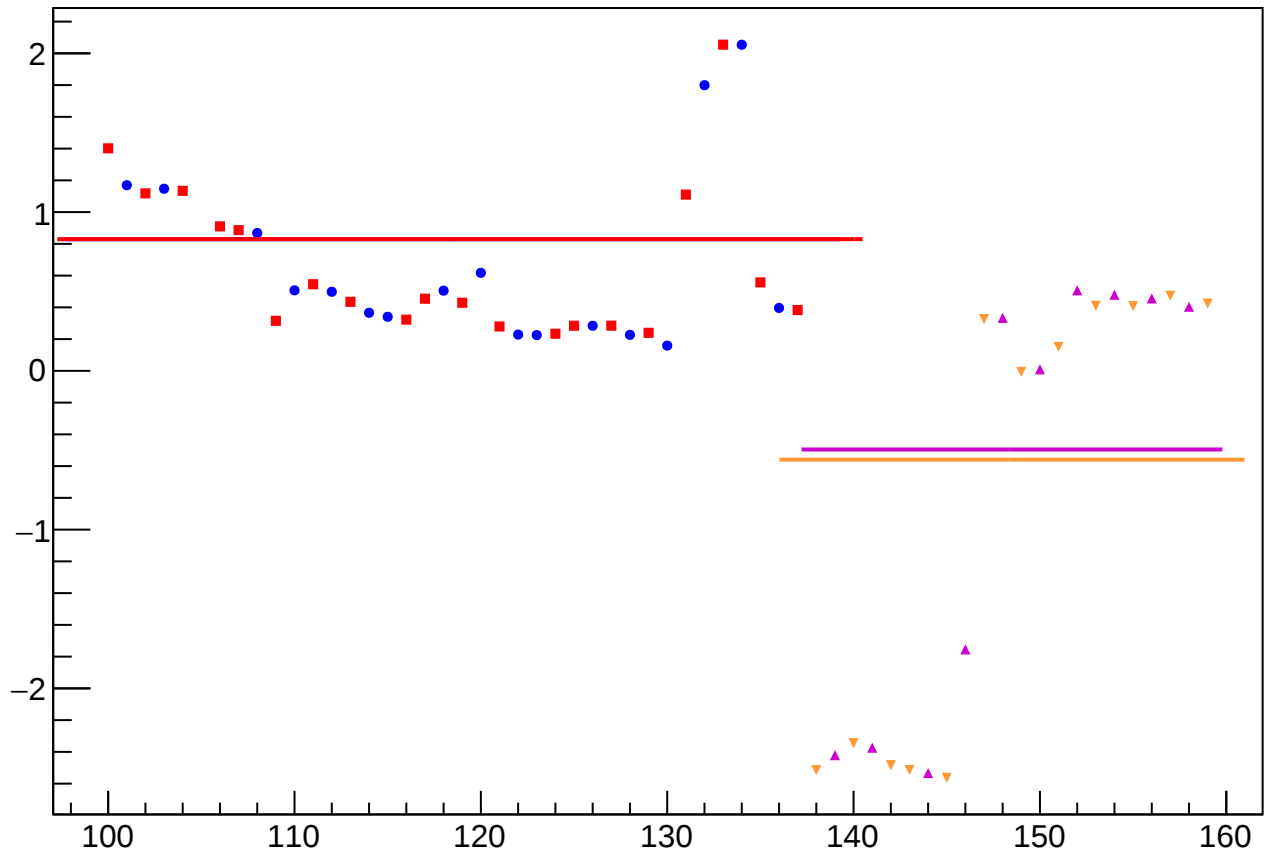
Right Out: 0.003+/-0.000 χ^2/NDF : 222524.1/19

Left In: 0.006+/-0.000 χ^2/NDF :186448.1/9

0.004+/-0.000 χ^2/NDF : 2508118.2/28

0.004+/-0.000 χ^2/NDF : 2631767.0/29

yield_bpm0l05X_mean vs Slug



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.559+/-0.000 χ^2/NDF : 394538941546.0/11

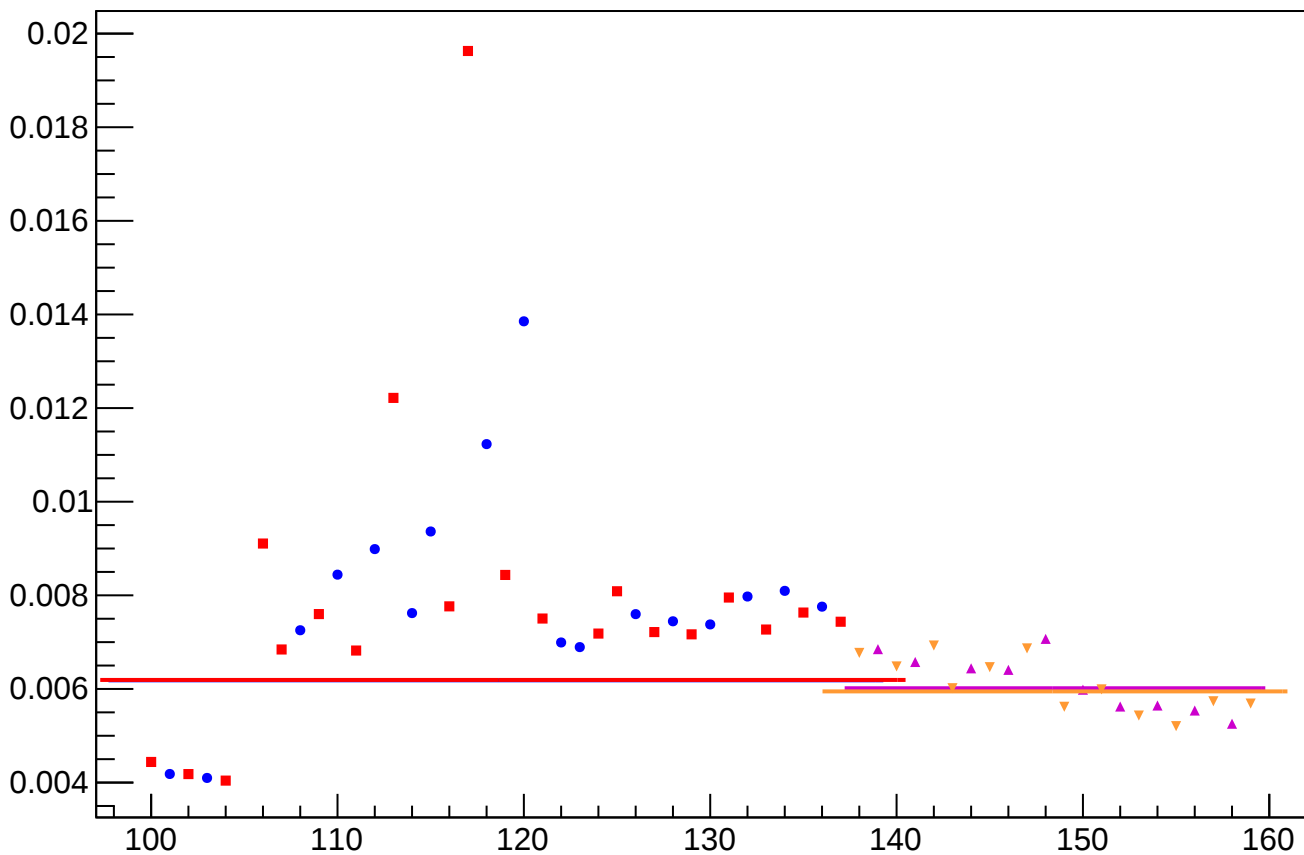
-0.039+/-0.000 χ^2/NDF : 593701559185.5/28

Right Out: 0.830+/-0.000 χ^2/NDF : 33349713412.0/19

0.064+/-0.000 χ^2/NDF : 518315549304.7/29

Left In: -0.495+/-0.000 χ^2/NDF : 330723224001.9/9

yield_bpm0l05X_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :134722.2/11

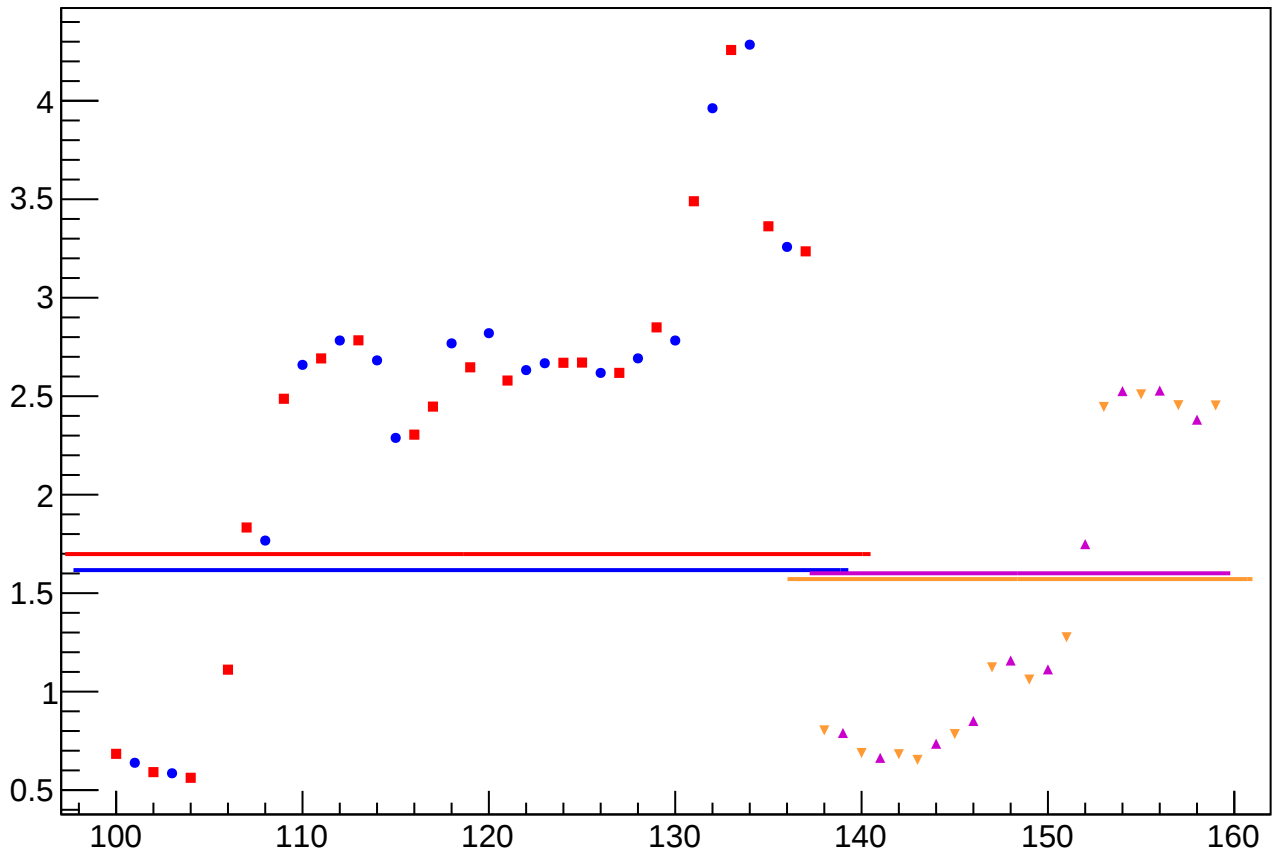
Right Out: 0.006+/-0.000 χ^2/NDF : 1062886.2/19

Left In: 0.006+/-0.000 χ^2/NDF :133917.7/9

0.006+/-0.000 χ^2/NDF : 1373436.2/28

0.006+/-0.000 χ^2/NDF : 1202352.9/29

yield_bpm0l05Y_mean vs Slug



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.572+/-0.000 χ^2/NDF :145279049692.6/11

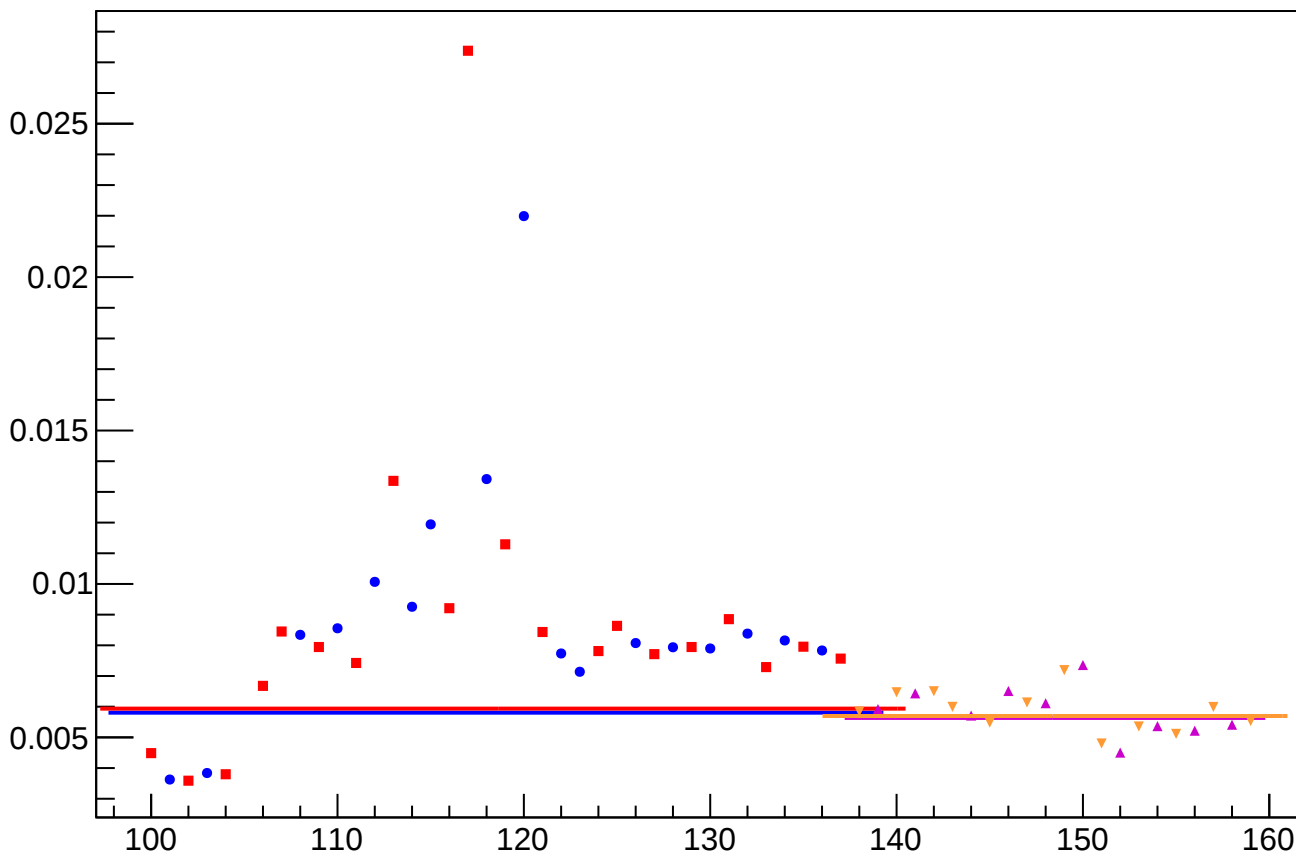
1.589+/-0.000 χ^2/NDF : 348350033155.5/28

Right Out: 1.698+/-0.000 χ^2/NDF : 227436227264.4/19

1.641+/-0.000 χ^2/NDF : 350827154196.9/29

Left In: 1.601+/-0.000 χ^2/NDF :122532742439.5/9

yield_bpm0l05Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.006+/-0.000 χ^2/NDF :174305.5/11

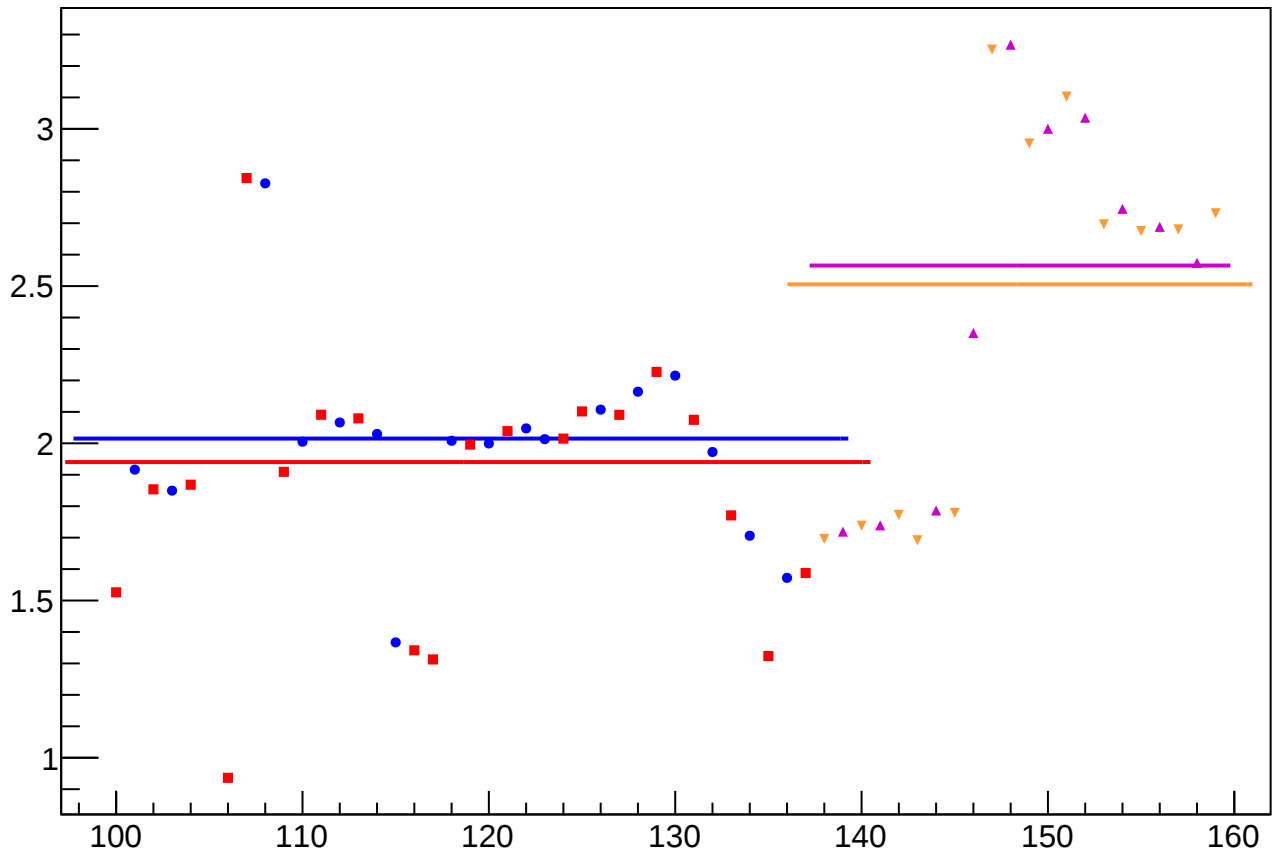
Right Out: 0.006+/-0.000 χ^2/NDF : 1731283.0/19

Left In: 0.006+/-0.000 χ^2/NDF :247046.1/9

0.006+/-0.000 χ^2/NDF : 2094388.4/28

0.006+/-0.000 χ^2/NDF : 1994948.3/29

yield_bpm0l06X_mean vs Slug



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.506+/-0.000 χ^2/NDF : 45601502358.2/11

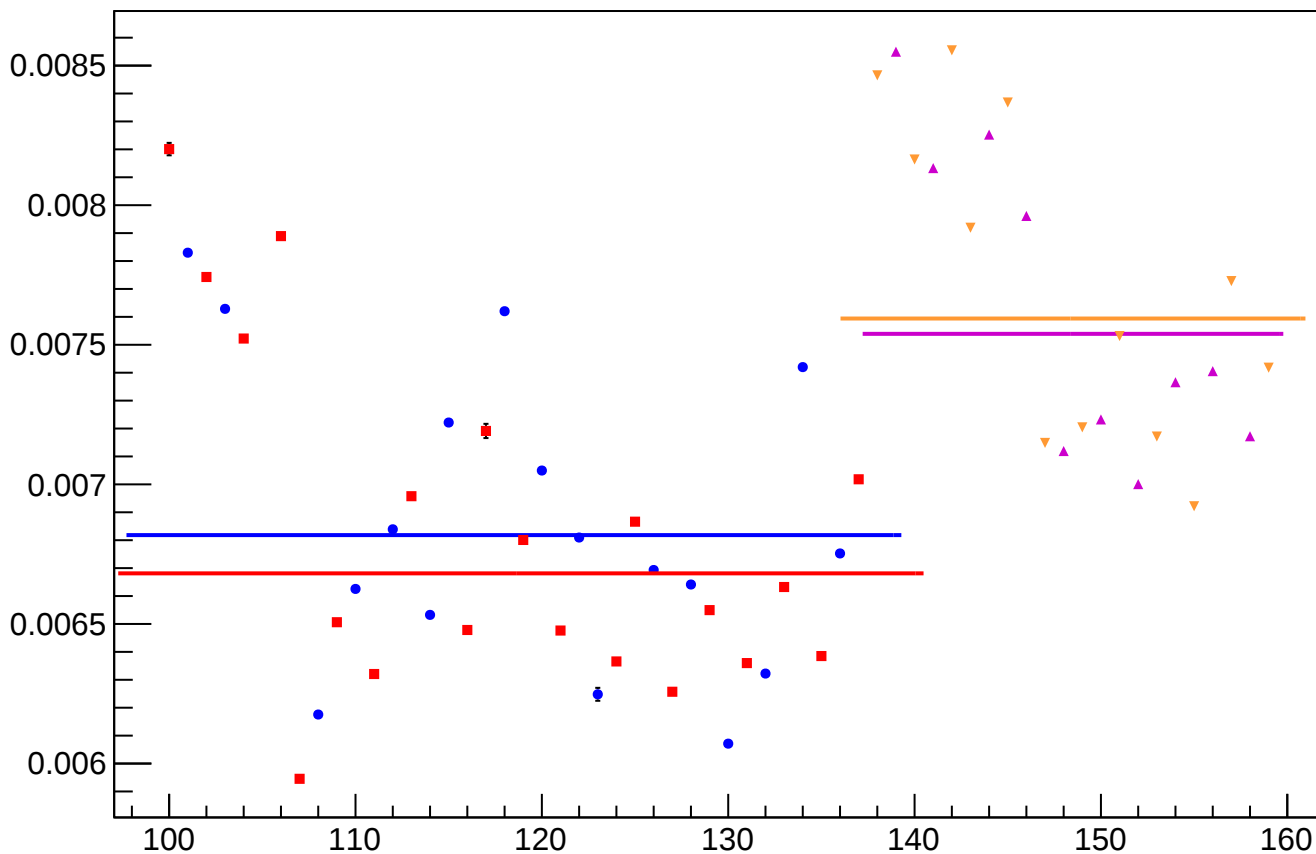
2.268+/-0.000 χ^2/NDF : 74815685918.8/28

Right Out: 1.940+/-0.000 χ^2/NDF : 21732099424.5/19

2.235+/-0.000 χ^2/NDF : 87382778336.3/29

Left In: 2.565+/-0.000 χ^2/NDF : 37473903247.2/9

yield_bpm0l06X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 77826.4/11

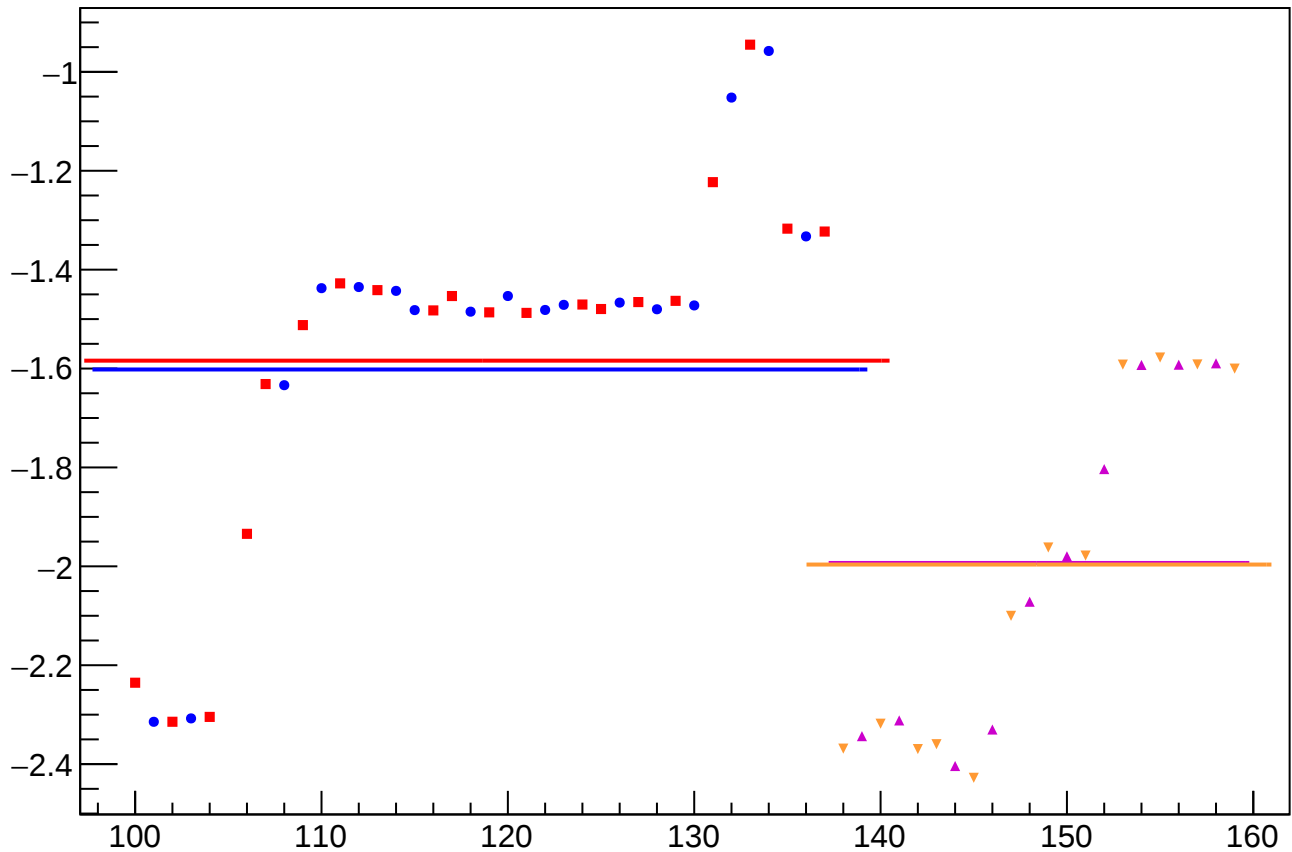
Right Out: 0.007+/-0.000 χ^2/NDF : 76121.2/19

Left In: 0.008+/-0.000 χ^2/NDF : 66667.9/9

0.007+/-0.000 χ^2/NDF : 238640.9/28

0.007+/-0.000 χ^2/NDF : 248990.8/29

yield_bpm0l06Y_mean vs Slug



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.996+/-0.000 χ^2/NDF : 112486726595.7/11

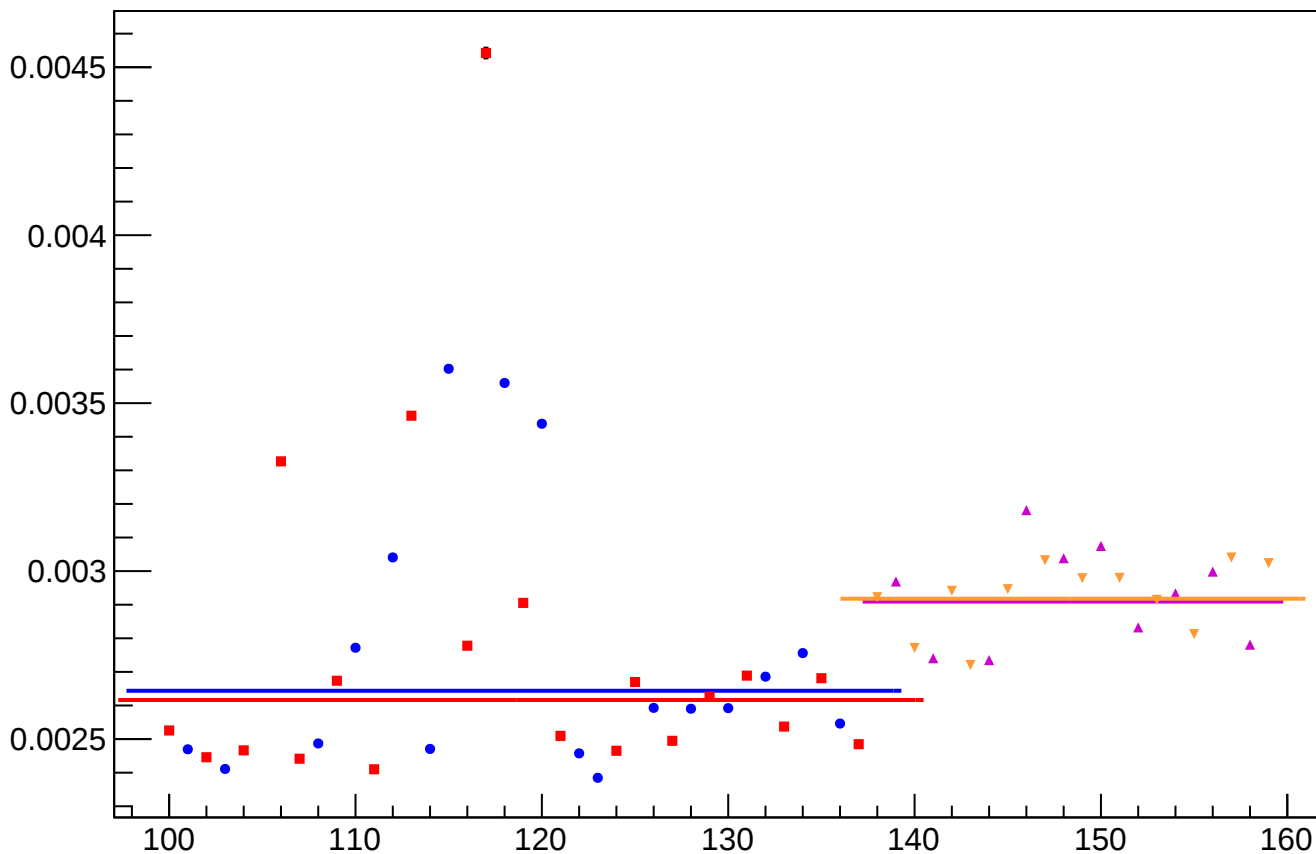
-1.807+/-0.000 χ^2/NDF : 325546328665.2/28

Right Out: -1.584+/-0.000 χ^2/NDF : 143612120137.8/19

-1.780+/-0.000 χ^2/NDF : 317912810185.1/29

Left In: -1.993+/-0.000 χ^2/NDF : 95563102679.4/9

yield_bpm0l06Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF : 20572.3/11

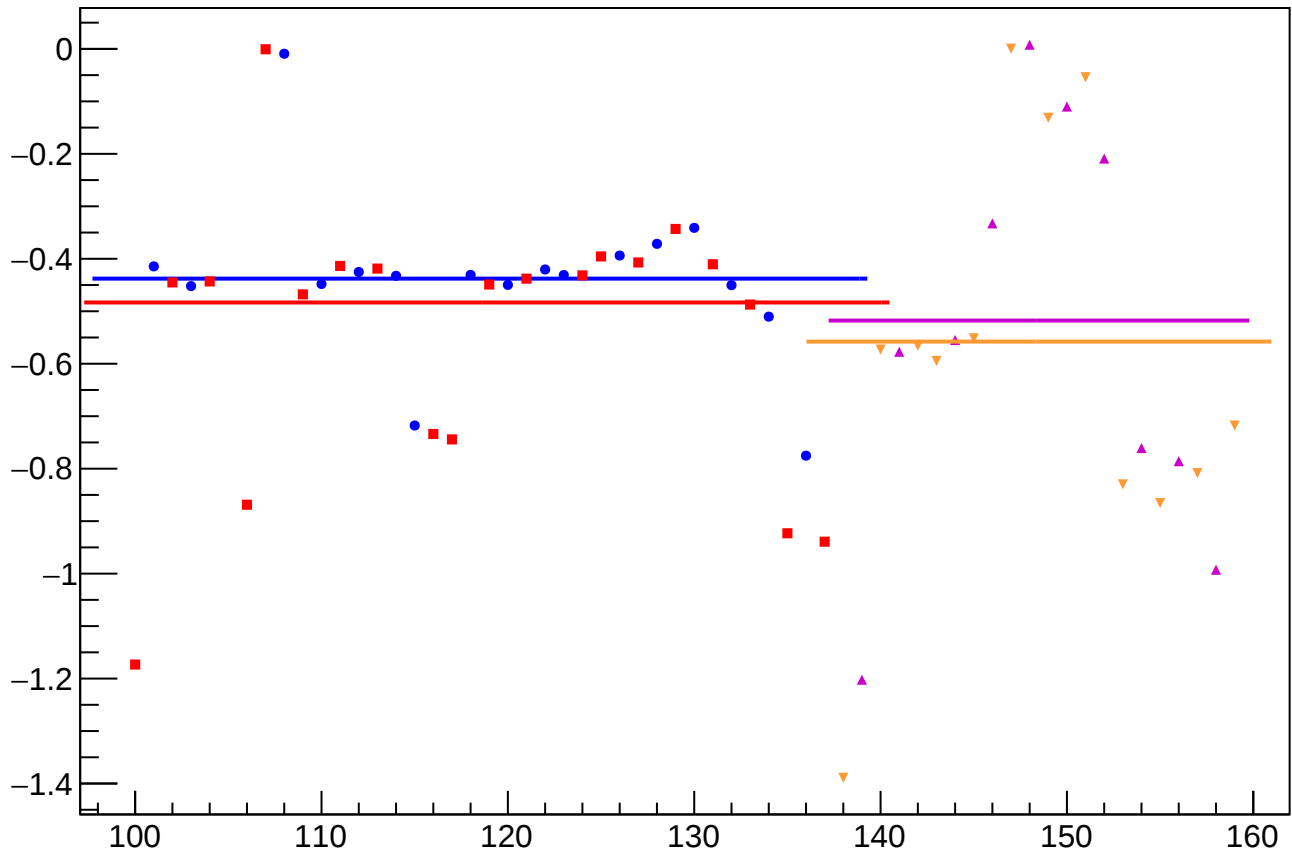
Right Out: 0.003+/-0.000 χ^2/NDF : 119852.1/19

Left In: 0.003+/-0.000 χ^2/NDF : 36880.1/9

0.003+/-0.000 χ^2/NDF : 242264.3/28

0.003+/-0.000 χ^2/NDF : 237482.3/29

yield_bpm0l07X_mean vs Slug



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.558+/-0.000 χ^2/NDF : 7454084438.7/11

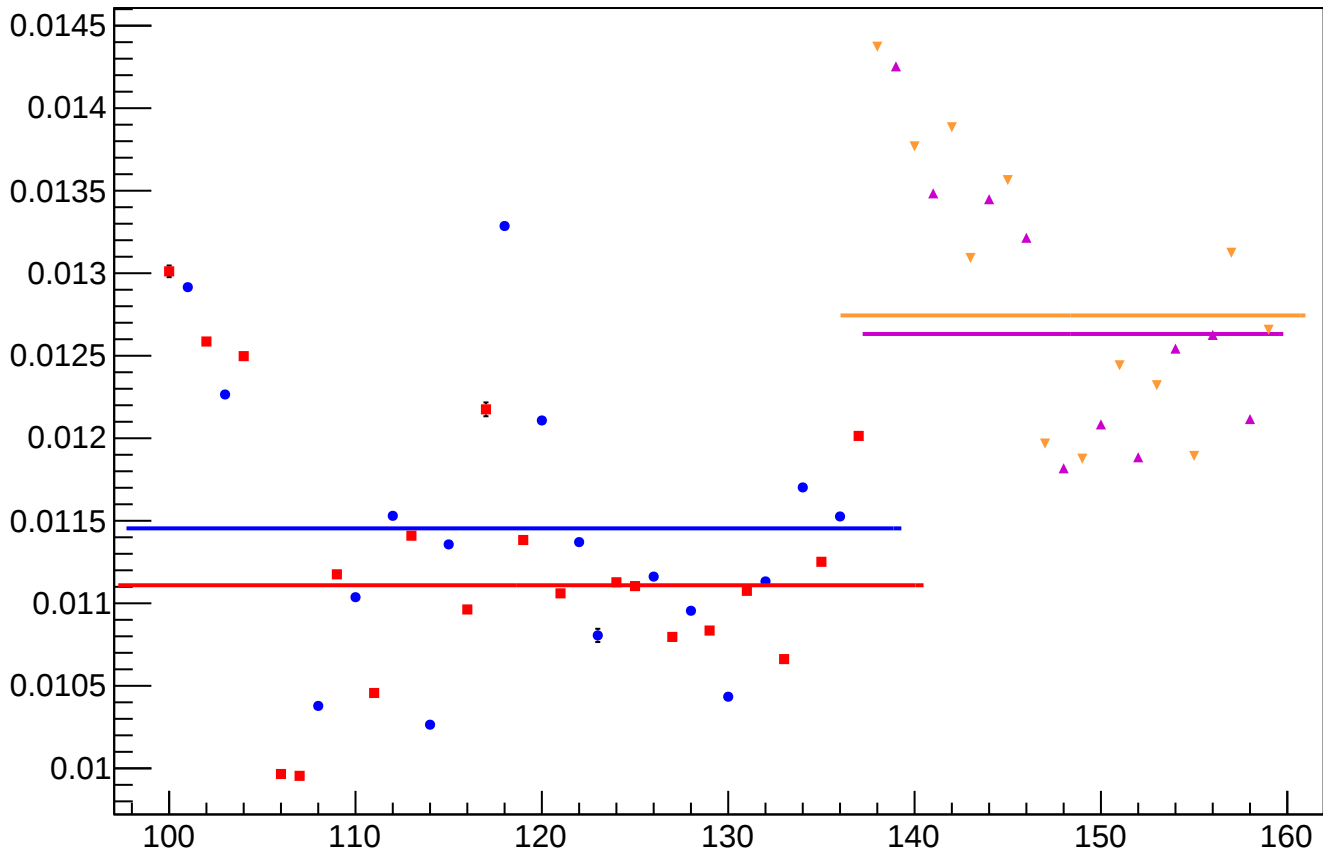
-0.499+/-0.000 χ^2/NDF : 9281407937.2/28

Right Out: -0.483+/-0.000 χ^2/NDF : 2714164016.2/19

-0.499+/-0.000 χ^2/NDF : 9290799869.7/29

Left In: -0.518+/-0.000 χ^2/NDF : 6545663785.5/9

yield_bpm0l07X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.013+/-0.000 χ^2/NDF : 63436.5/11

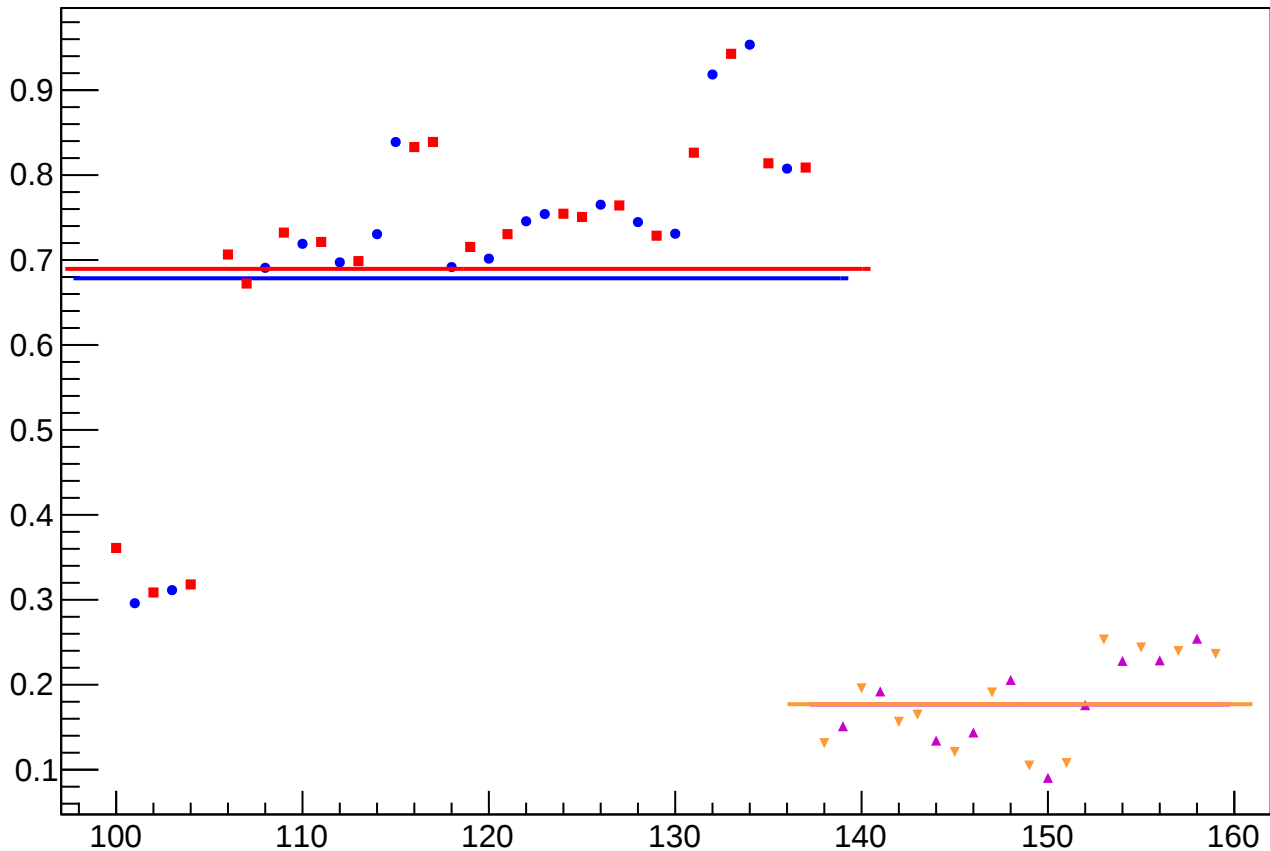
Right Out: 0.011+/-0.000 χ^2/NDF : 56696.9/19

Left In: 0.013+/-0.000 χ^2/NDF : 52097.3/9

0.012+/-0.000 χ^2/NDF : 212454.6/28

0.012+/-0.000 χ^2/NDF : 229760.5/29

yield_bpm0l07Y_mean vs Slug



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.177+/-0.000 χ^2/NDF : 4981547066.9/11

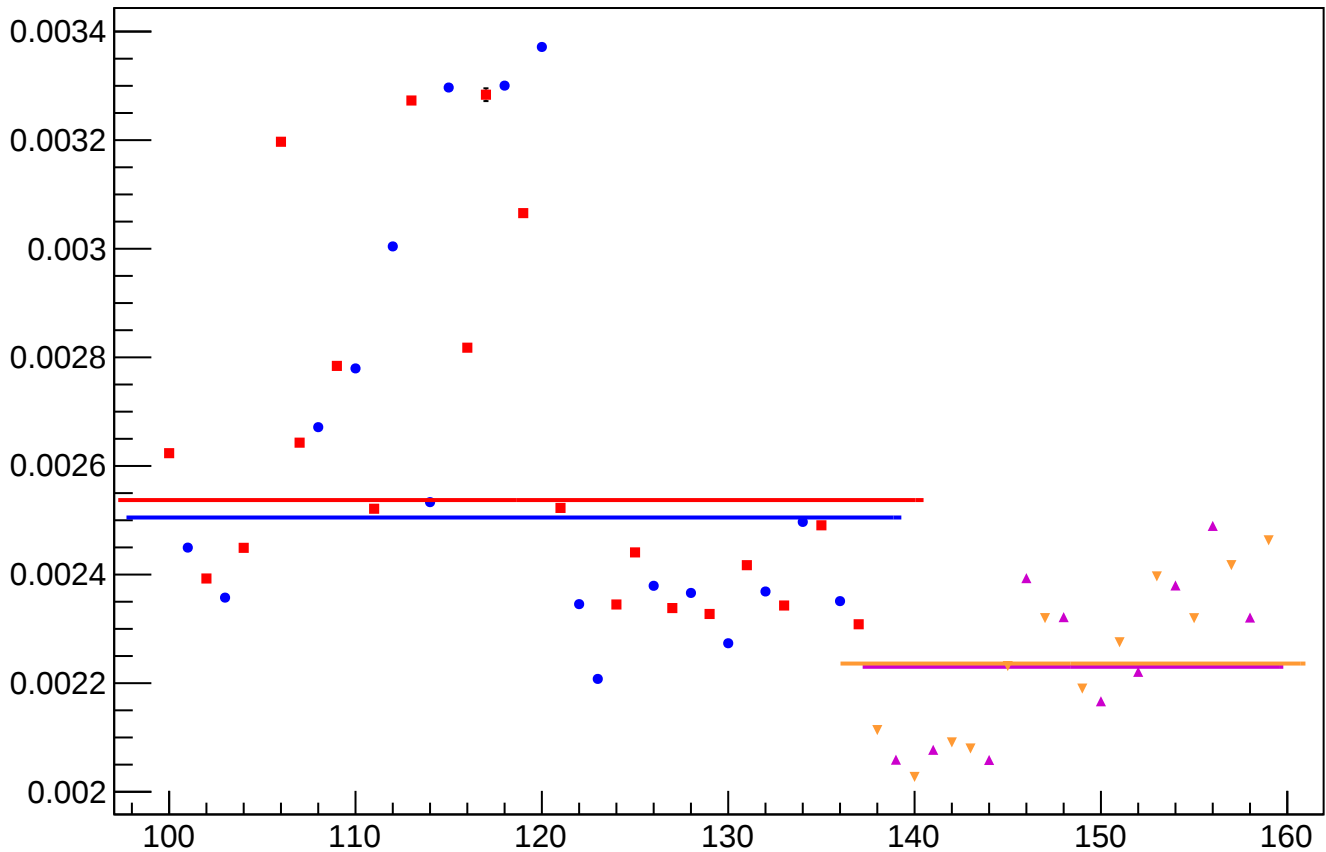
0.360+/-0.000 χ^2/NDF : 205432646064.1/28

Right Out: 0.690+/-0.000 χ^2/NDF : 35439496983.3/19

0.379+/-0.000 χ^2/NDF : 206129280009.1/29

Left In: 0.177+/-0.000 χ^2/NDF : 3792938227.5/9

yield_bpm0l07Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF : 68045.6/11

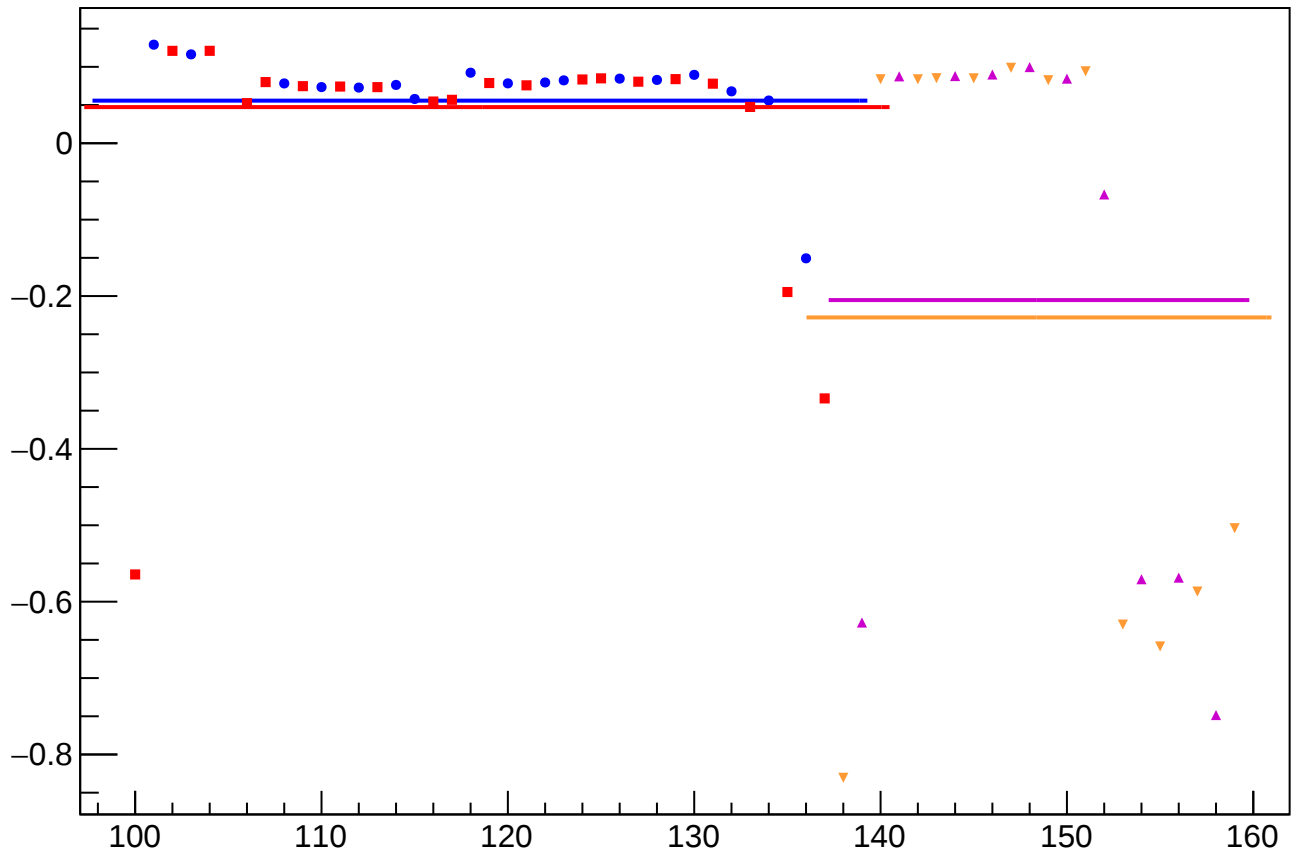
Right Out: 0.003+/-0.000 χ^2/NDF : 135649.7/19

Left In: 0.002+/-0.000 χ^2/NDF : 67554.7/9

0.002+/-0.000 χ^2/NDF : 336782.0/28

0.002+/-0.000 χ^2/NDF : 322836.2/29

yield_bpm0l08X_mean vs Slug



Right In: 0.056+/-0.000 χ^2/NDF : 423003688.1/16

Left Out: -0.228+/-0.000 χ^2/NDF : 8387212239.6/11

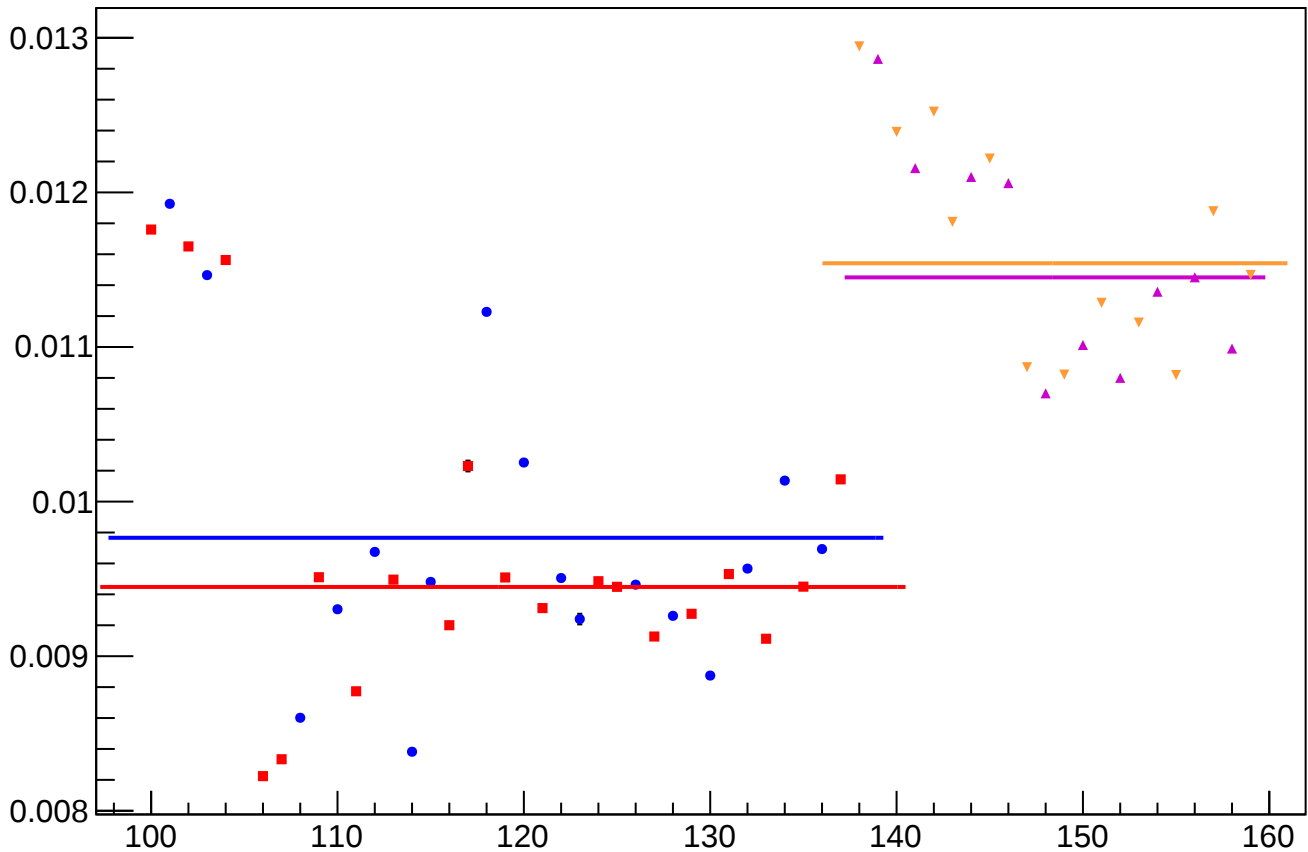
Right Out: 0.047+/-0.000 χ^2/NDF : 819626031.7/19

Left In: -0.205+/-0.000 χ^2/NDF : 6970421946.7/9

-0.082+/-0.000 χ^2/NDF : 11446670557.2/28

-0.062+/-0.000 χ^2/NDF : 9929398649.0/29

yield_bpm0l08X_rms vs Slug



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 56110.1/11

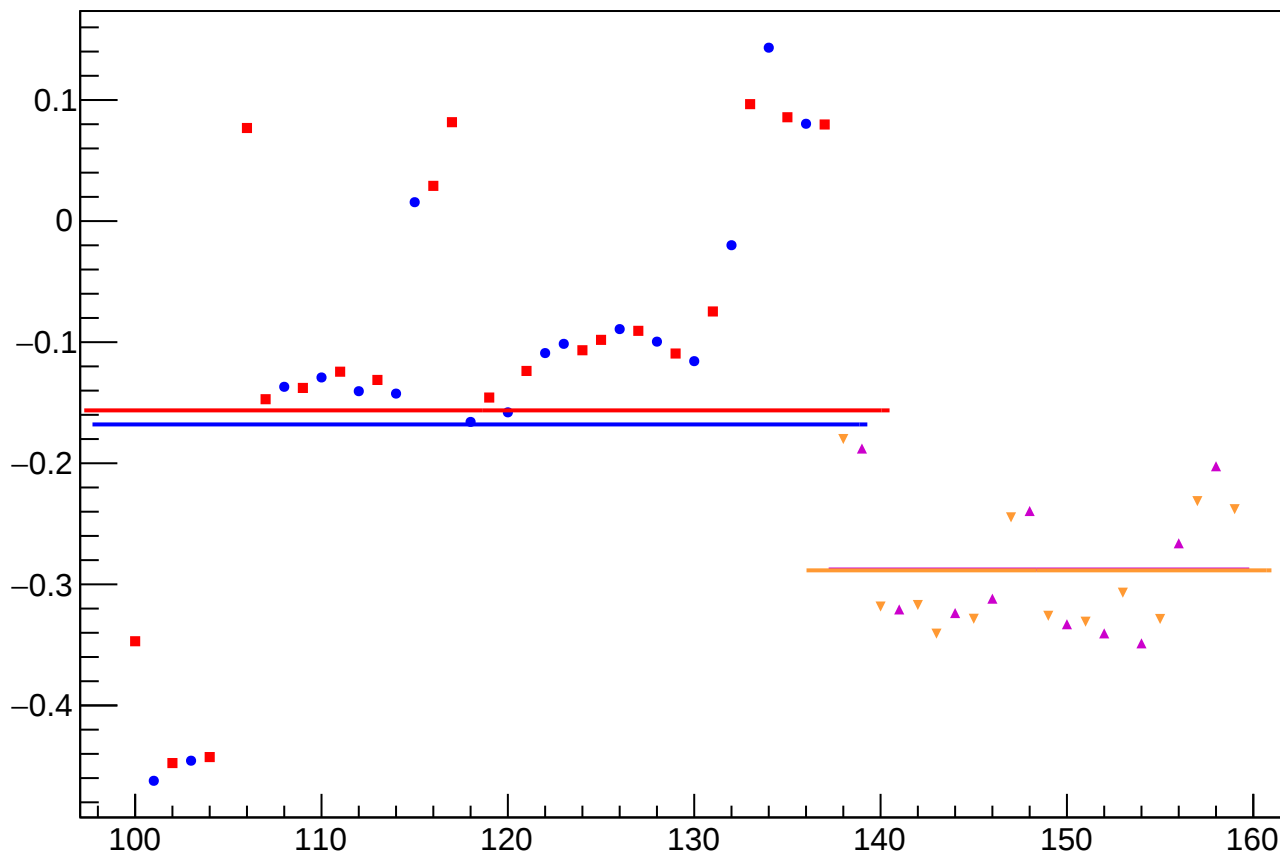
Right Out: 0.009+/-0.000 χ^2/NDF : 111197.0/19

Left In: 0.011+/-0.000 χ^2/NDF : 48488.3/9

0.011+/-0.000 χ^2/NDF : 379278.2/28

0.010+/-0.000 χ^2/NDF : 428611.5/29

yield_bpm0l08Y_mean vs Slug



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.288+/-0.000 χ^2/NDF : 2657008206.5/11

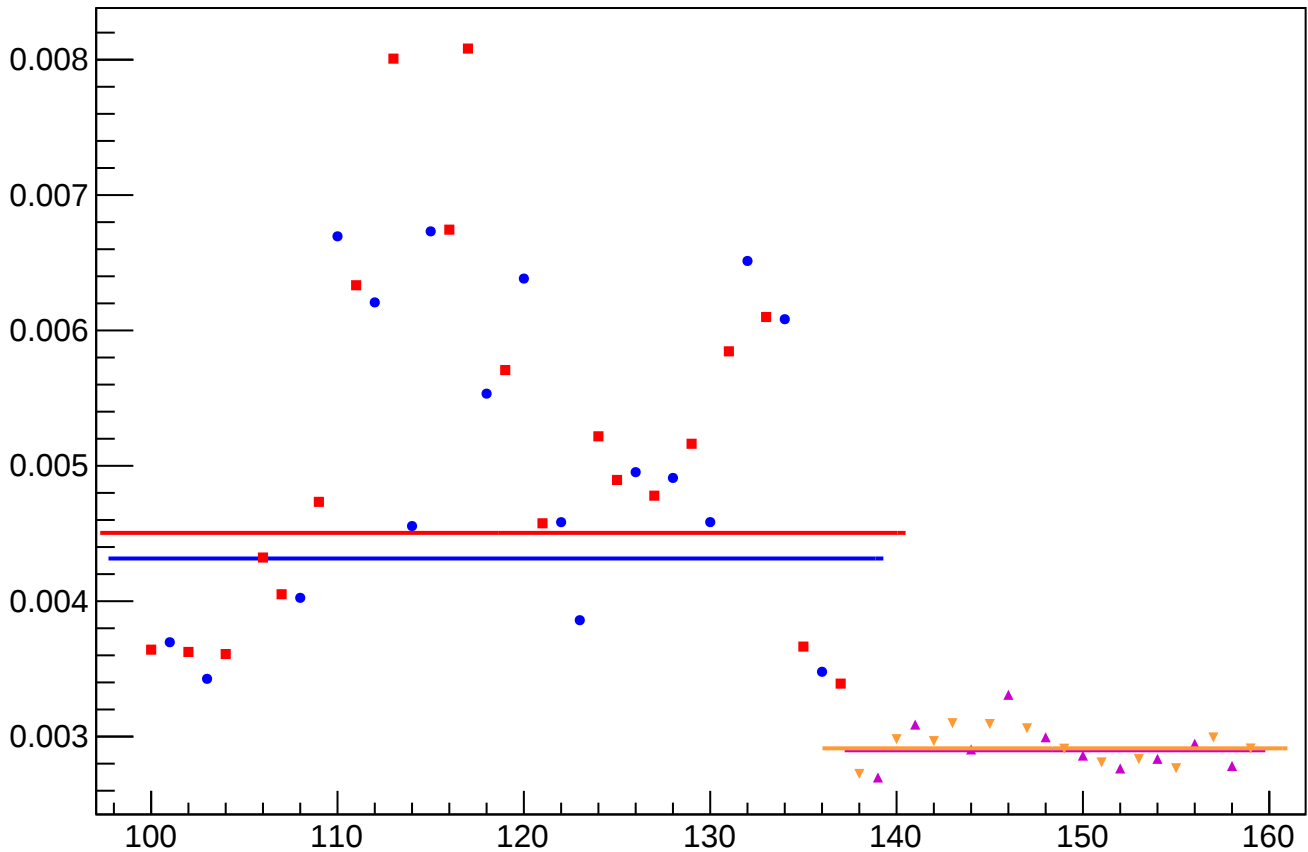
Right Out: -0.156+/-0.000 χ^2/NDF : 11061140252.3/19

Left In: -0.288+/-0.000 χ^2/NDF : 3031574365.3/9

-0.260+/-0.000 χ^2/NDF : 18438239817.3/28

-0.255+/-0.000 χ^2/NDF : 18073728775.3/29

yield_bpm0l08Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF : 28988.7/11

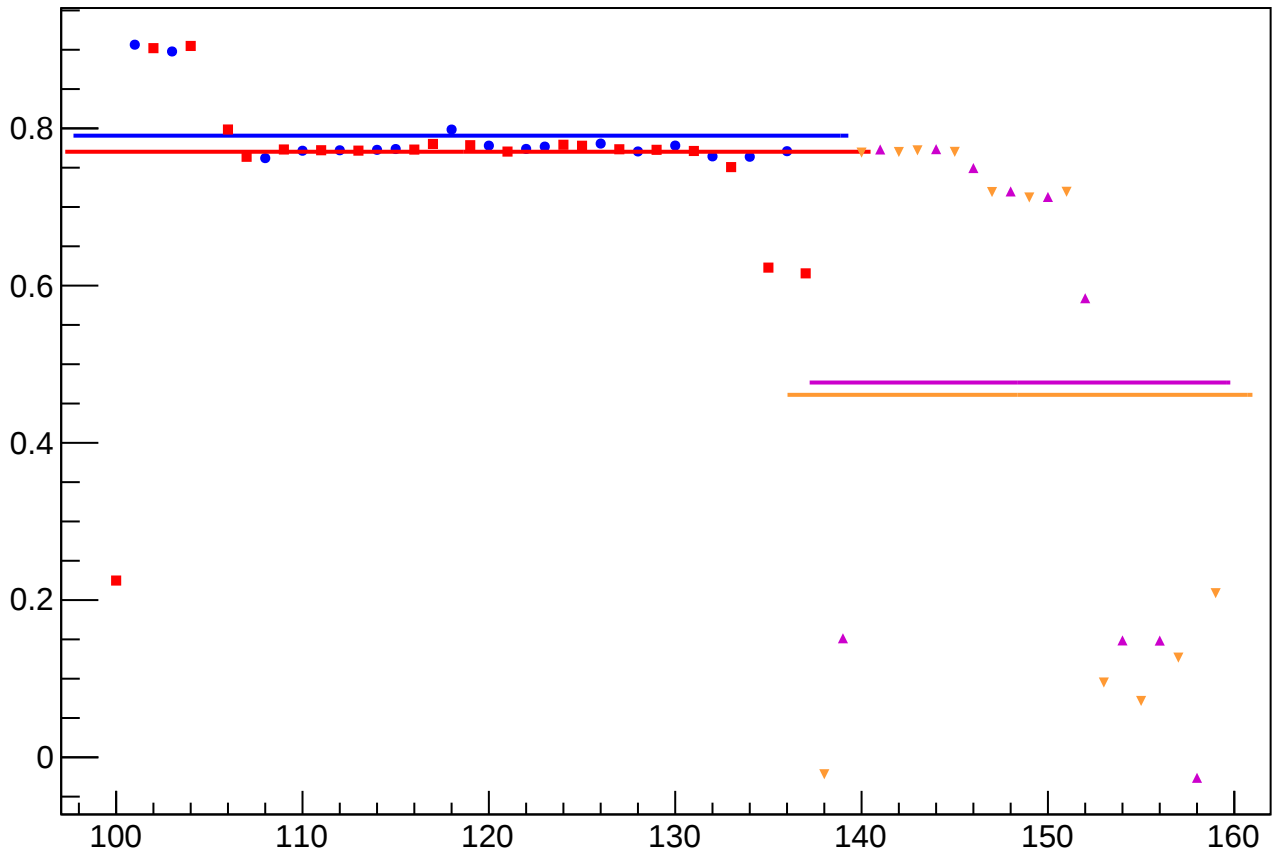
Right Out: 0.005+/-0.000 χ^2/NDF : 665152.6/19

Left In: 0.003+/-0.000 χ^2/NDF : 44536.2/9

0.003+/-0.000 χ^2/NDF : 1582839.7/28

0.003+/-0.000 χ^2/NDF : 1898796.6/29

yield_bpm0l09X_mean vs Slug



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.461+/-0.000 χ^2/NDF : 6955876098.3/11

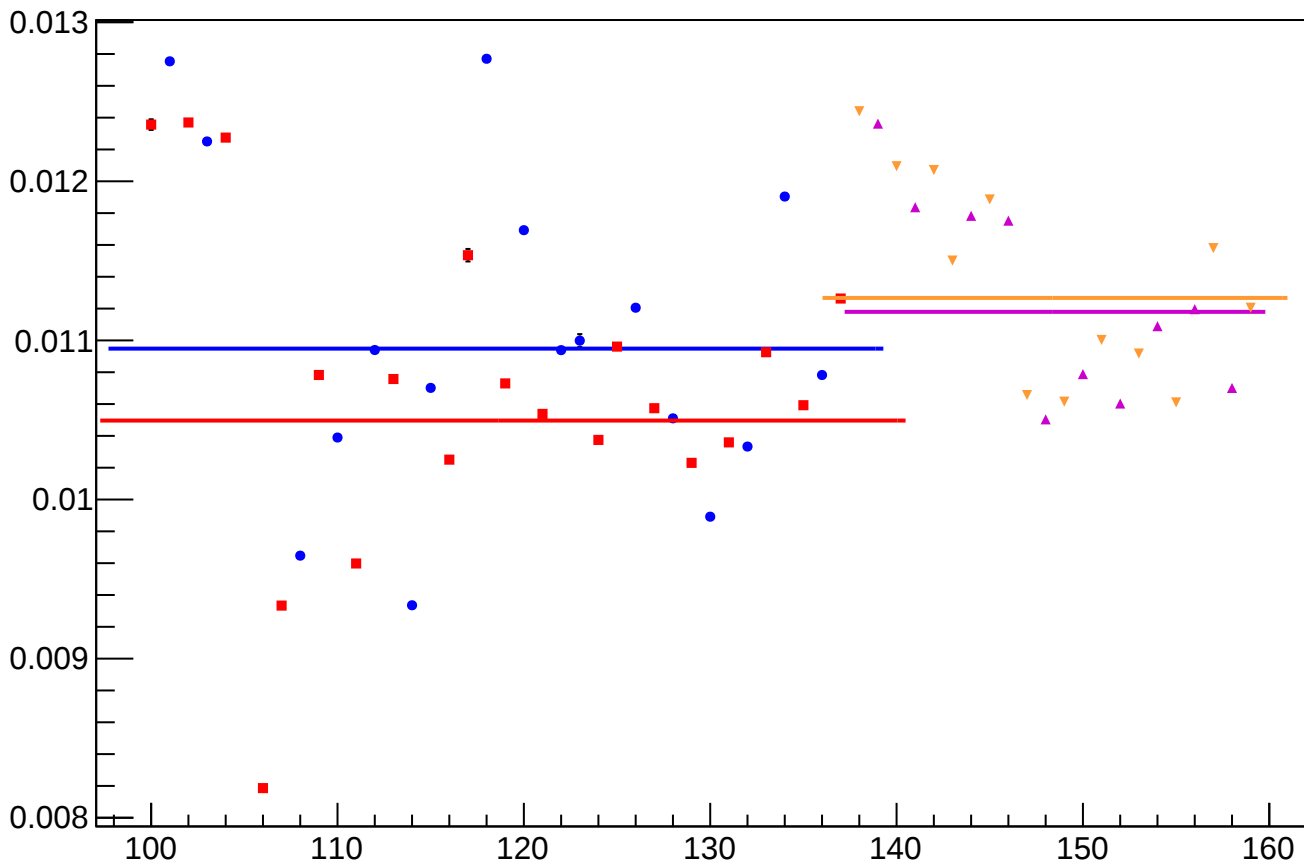
Right Out: 0.770+/-0.000 χ^2/NDF : 375473971.0/19

Left In: 0.477+/-0.000 χ^2/NDF : 5913011500.2/9

0.608+/-0.000 χ^2/NDF : 10309808521.0/28

0.624+/-0.000 χ^2/NDF : 8987478490.8/29

yield_bpm0l09X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 47469.5/11

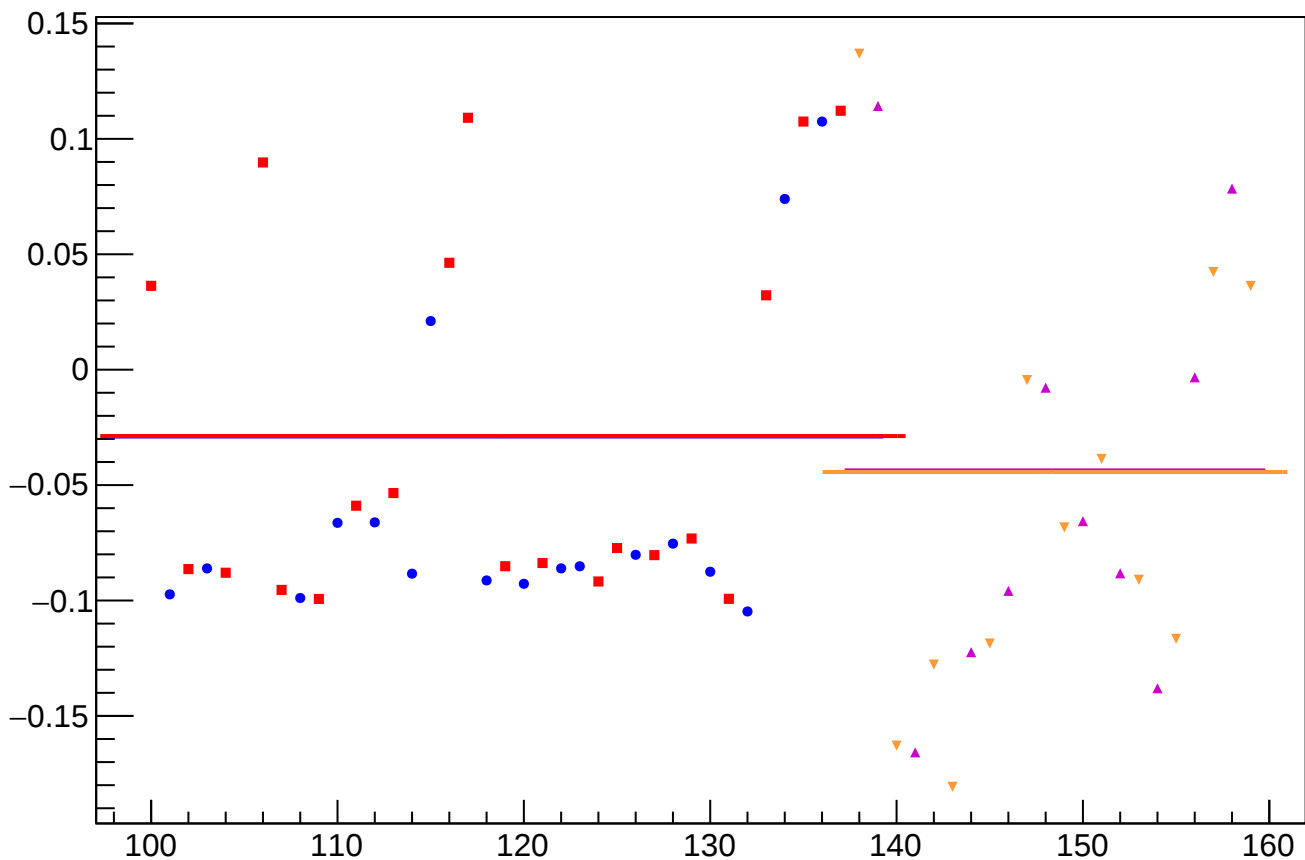
0.011+/-0.000 χ^2/NDF : 152087.3/28

Right Out: 0.010+/-0.000 χ^2/NDF : 120120.6/19

0.011+/-0.000 χ^2/NDF : 190873.8/29

Left In: 0.011+/-0.000 χ^2/NDF : 41509.3/9

yield_bpm0l09Y_mean vs Slug



Right In: -0.029+/-0.000 χ^2/NDF : 2445975608.2/16

Left Out: -0.044+/-0.000 χ^2/NDF : 6595659243.2/11

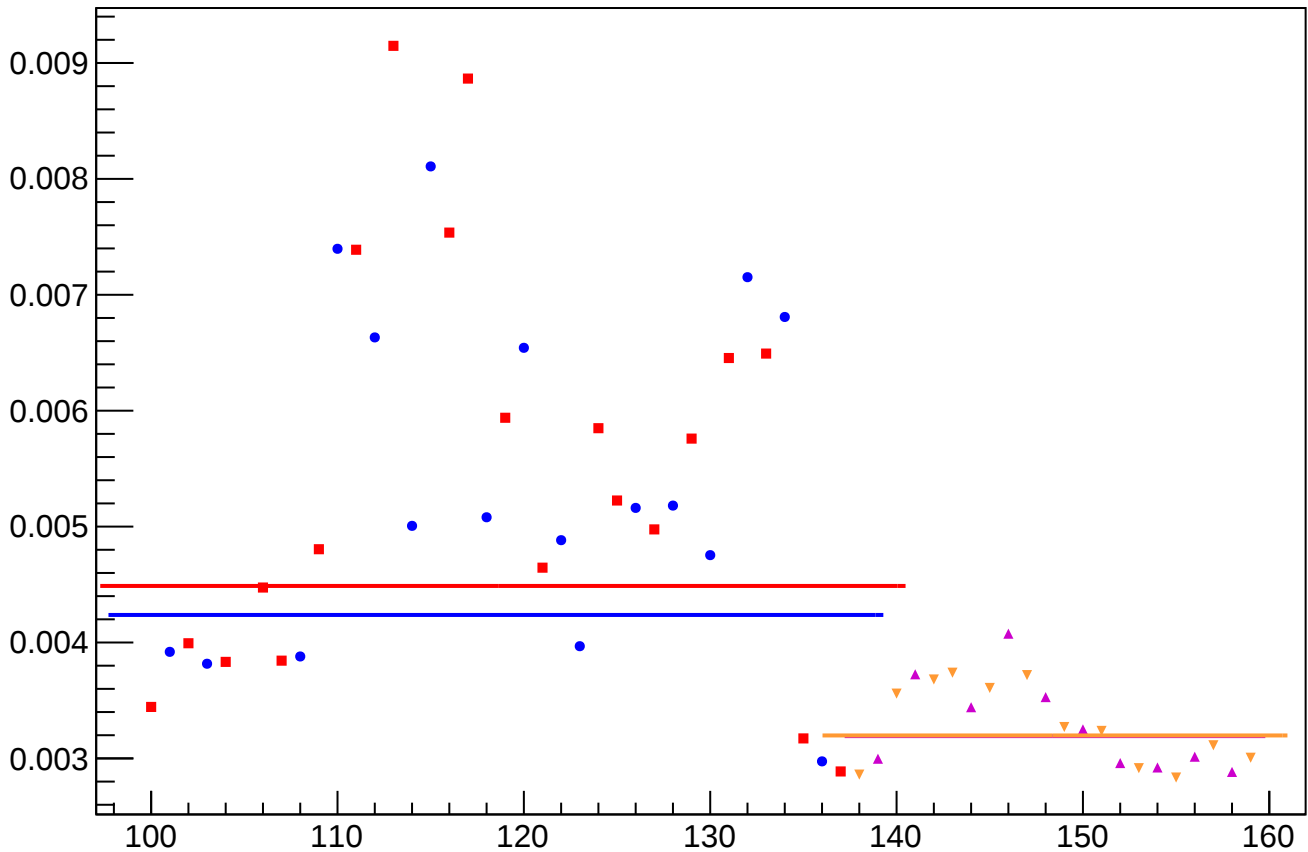
Right Out: -0.029+/-0.000 χ^2/NDF : 2122918772.1/19

Left In: -0.044+/-0.000 χ^2/NDF : 5808899811.2/9

-0.040+/-0.000 χ^2/NDF : 9093938241.8/28

-0.039+/-0.000 χ^2/NDF : 7977911841.4/29

yield_bpm0l09Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 881584.1/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:163962.6/11

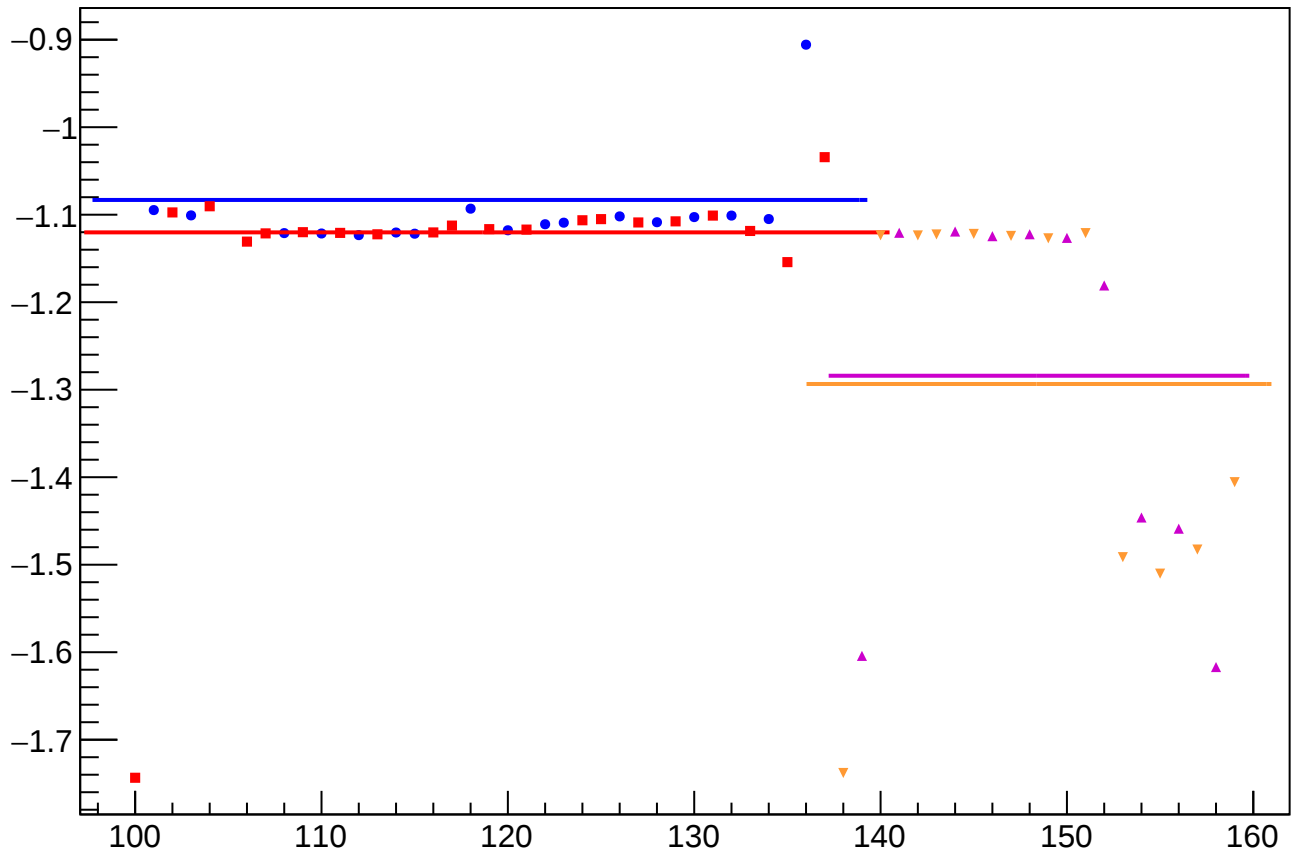
Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1003473.4/19

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:168337.7/9

0.003 $\pm$ 0.000 χ^2 /NDF: 1522417.2/28

0.004 $\pm$ 0.000 χ^2 /NDF: 1871438.9/29

yield_bpm0l10X_mean vs Slug



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.293+/-0.000 χ^2/NDF : 3501110565.0/11

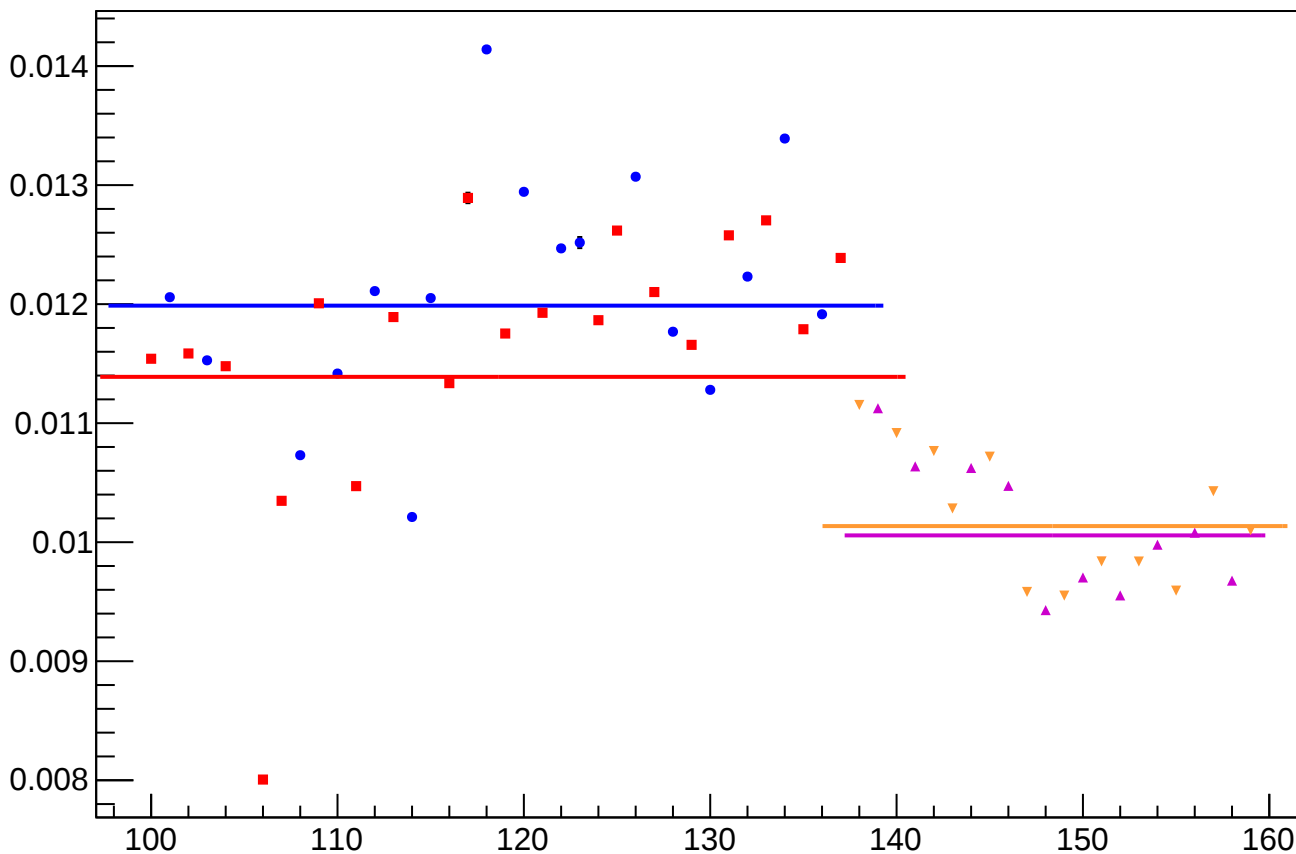
Right Out: -1.120+/-0.000 χ^2/NDF : 220586820.0/19

Left In: -1.284+/-0.000 χ^2/NDF : 3052765866.6/9

-1.220+/-0.000 χ^2/NDF : 4994268841.3/28

-1.217+/-0.000 χ^2/NDF : 4118849650.3/29

yield_bpm0l10X_rms vs Slug



Right In: 0.012+/-0.000 χ^2/NDF : 60402.0/16

Left Out: 0.010+/-0.000 χ^2/NDF : 46362.6/11

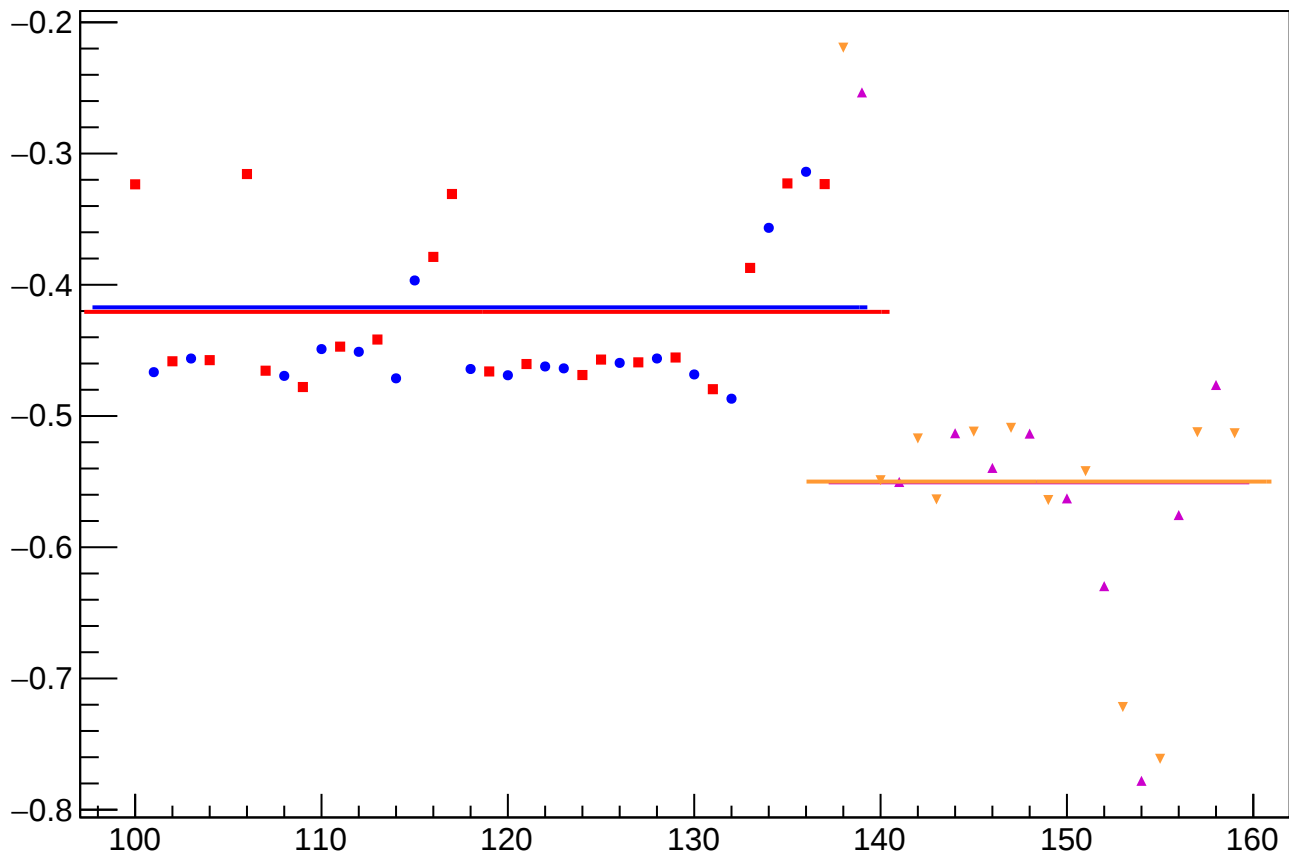
Right Out: 0.011+/-0.000 χ^2/NDF : 155700.3/19

Left In: 0.010+/-0.000 χ^2/NDF : 40303.1/9

0.011+/-0.000 χ^2/NDF : 306835.5/28

0.011+/-0.000 χ^2/NDF : 307757.1/29

yield_bpm0l10Y_mean vs Slug



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.550+/-0.000 χ^2/NDF : 12549759714.5/11

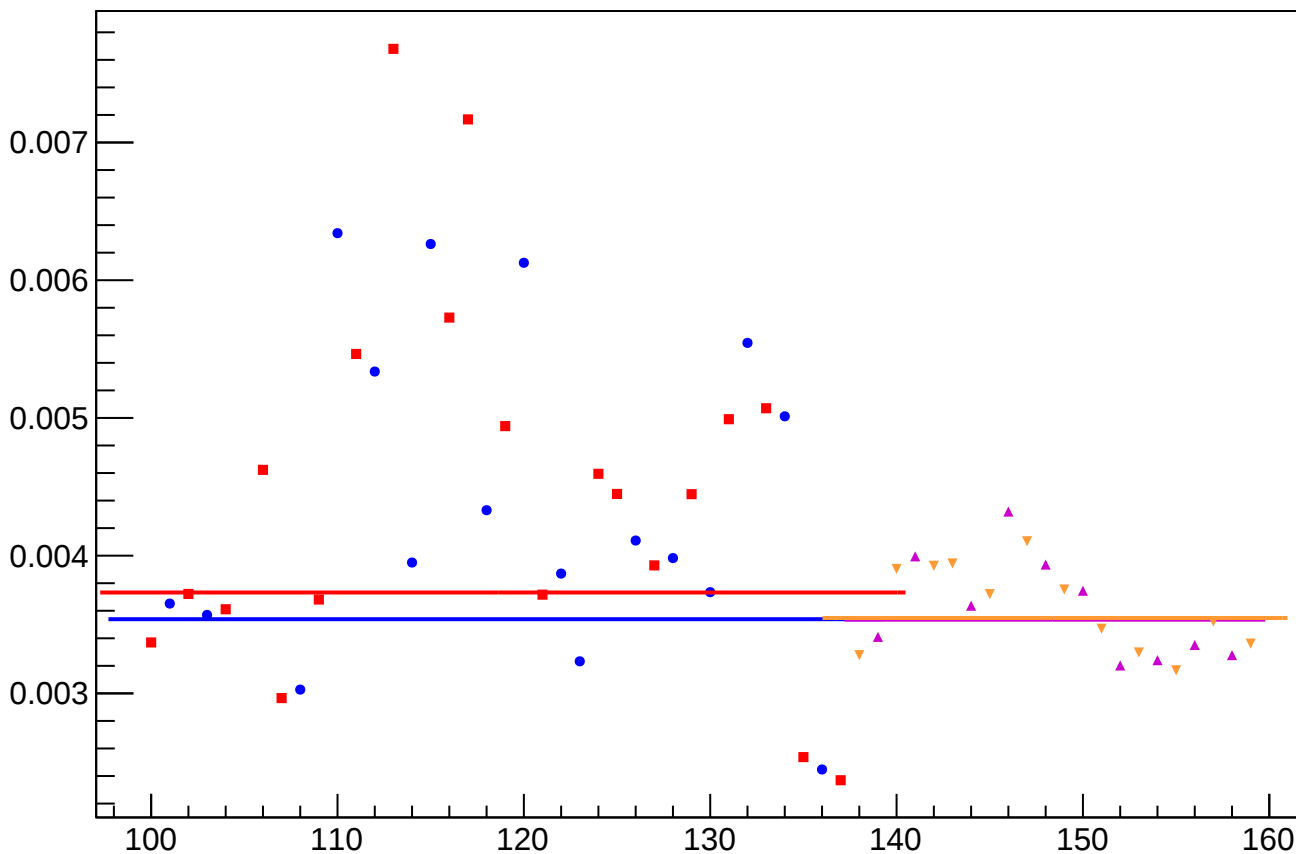
Right Out: -0.421+/-0.000 χ^2/NDF : 1652792044.5/19

Left In: -0.551+/-0.000 χ^2/NDF : 9899300716.2/9

-0.497+/-0.000 χ^2/NDF : 19175248125.4/28

-0.496+/-0.000 χ^2/NDF : 15715274846.5/29

yield_bpm0l10Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 836154.0/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:109526.2/11

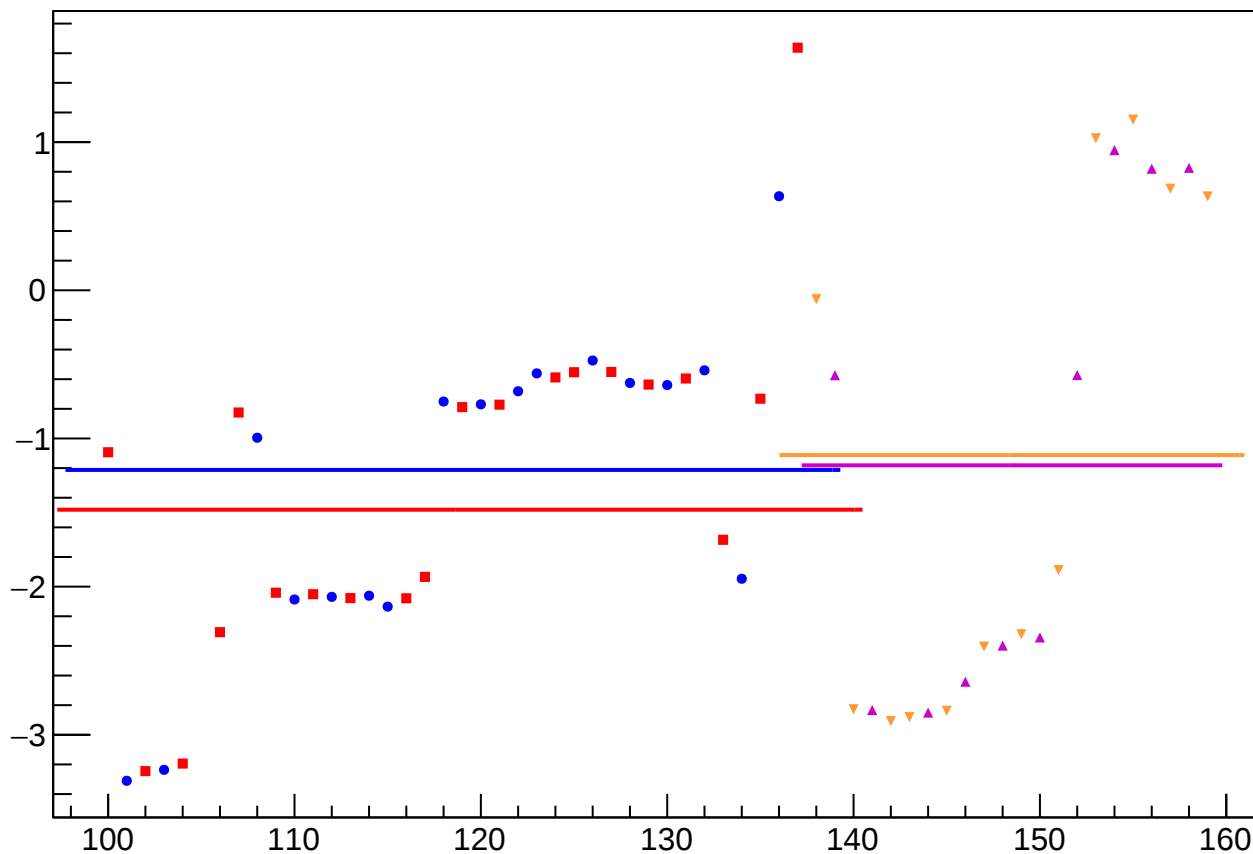
Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 916963.6/19

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:131034.8/9

0.004 $\pm$ 0.000 χ^2 /NDF: 945720.4/28

0.004 $\pm$ 0.000 χ^2 /NDF: 1067195.8/29

yield_bpm0r03X_mean vs Slug



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.112+/-0.000 χ^2/NDF : 4224728777.3/11

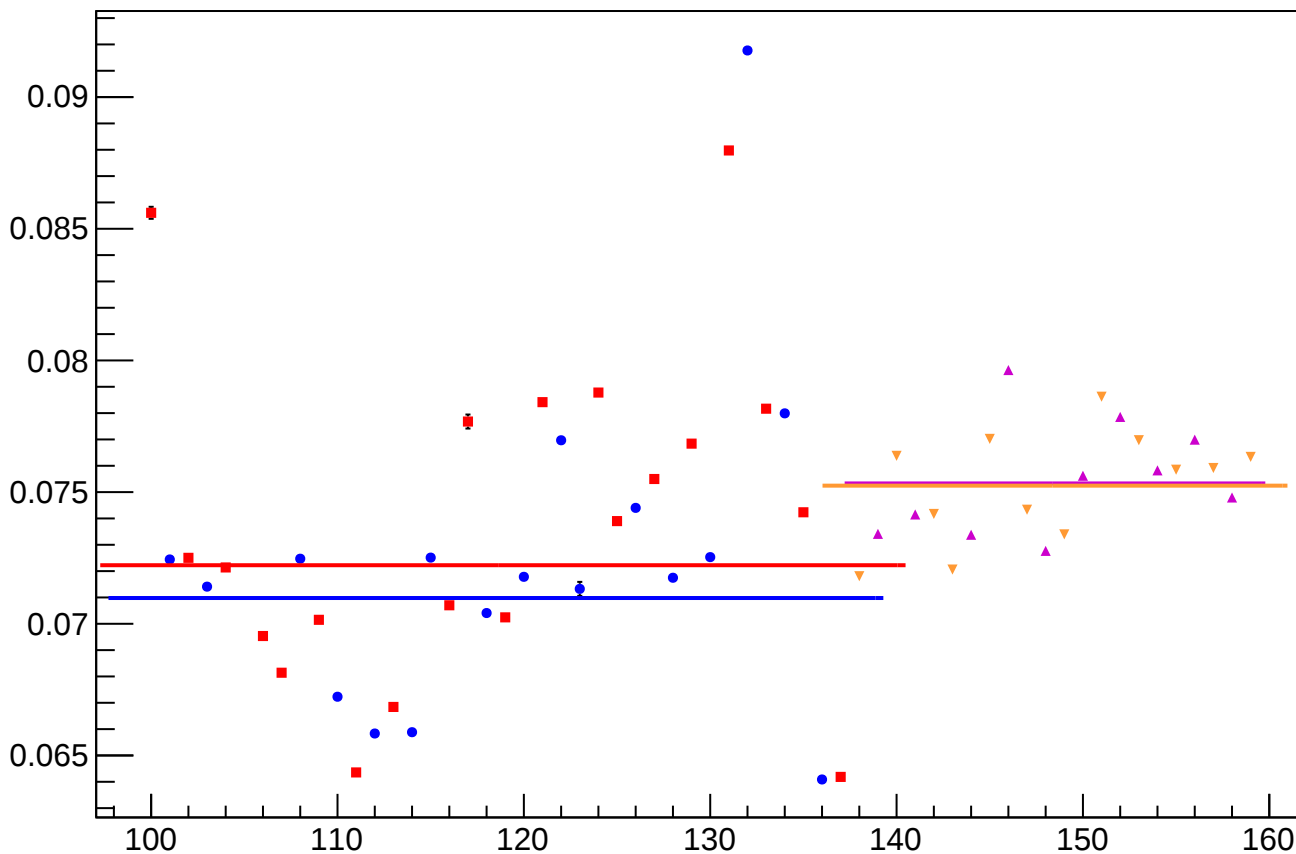
Right Out: -1.481+/-0.000 χ^2/NDF : 1579722113.8/19

Left In: -1.181+/-0.000 χ^2/NDF : 3371555557.3/9

-1.158+/-0.000 χ^2/NDF : 6224715286.0/28

-1.328+/-0.000 χ^2/NDF : 5012712388.0/29

yield_bpm0r03X_rms vs Slug



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 12614.6/11

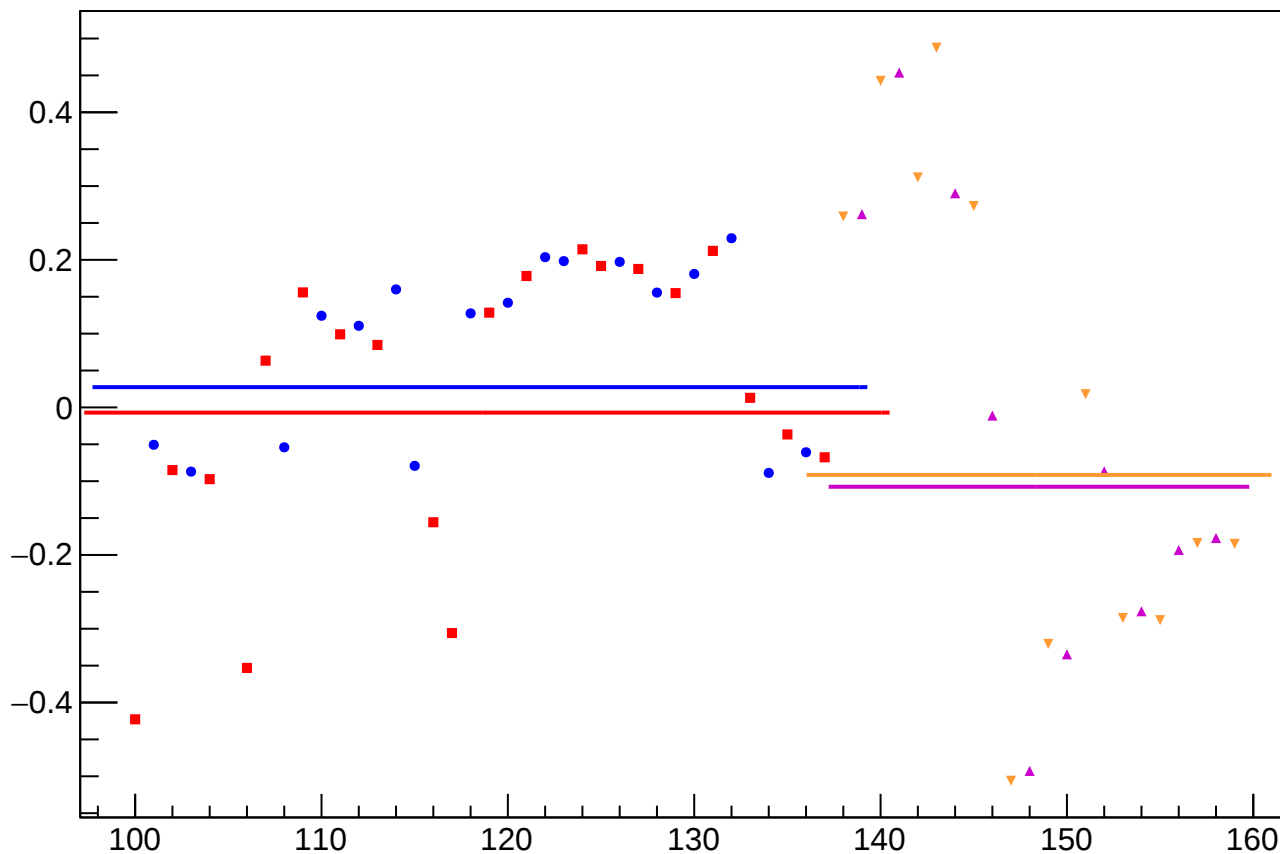
Right Out: 0.072+/-0.000 χ^2/NDF : 73650.9/19

Left In: 0.075+/-0.000 χ^2/NDF : 11382.5/9

0.073+/-0.000 χ^2/NDF : 115995.5/28

0.074+/-0.000 χ^2/NDF : 98243.6/29

yield_bpm0r03Y_mean vs Slug



Right In: 0.027 ± 0.000 χ^2/NDF : 562337631.4/16

Left Out: -0.092 ± 0.000 χ^2/NDF : 12971166906.2/11

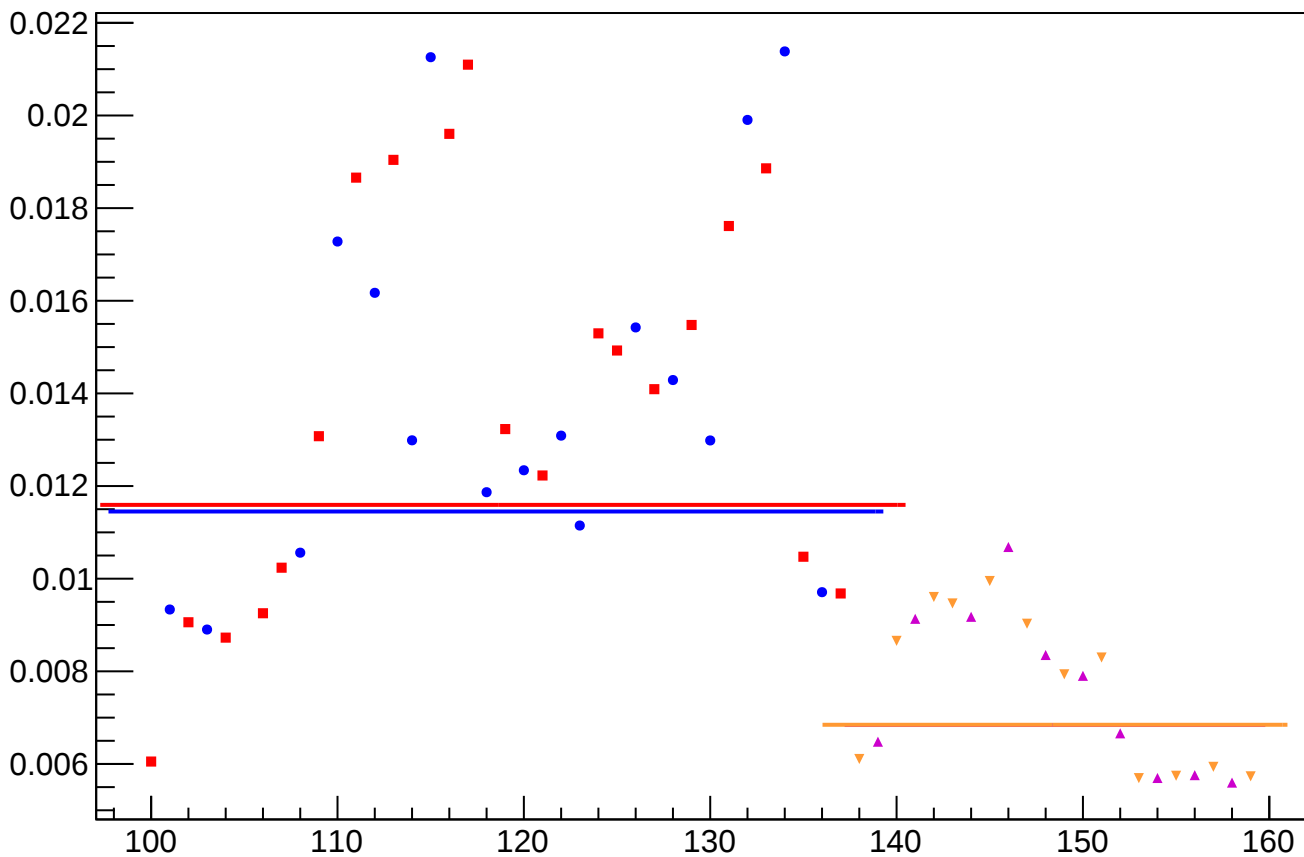
Right Out: -0.007 ± 0.000 χ^2/NDF : 1207003891.2/19

Left In: -0.108 ± 0.000 χ^2/NDF : 9713806623.9/9

-0.067 ± 0.000 χ^2/NDF : 14026465993.9/28

-0.085 ± 0.000 χ^2/NDF : 11269044094.0/29

yield_bpm0r03Y_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF : 736207.5/11

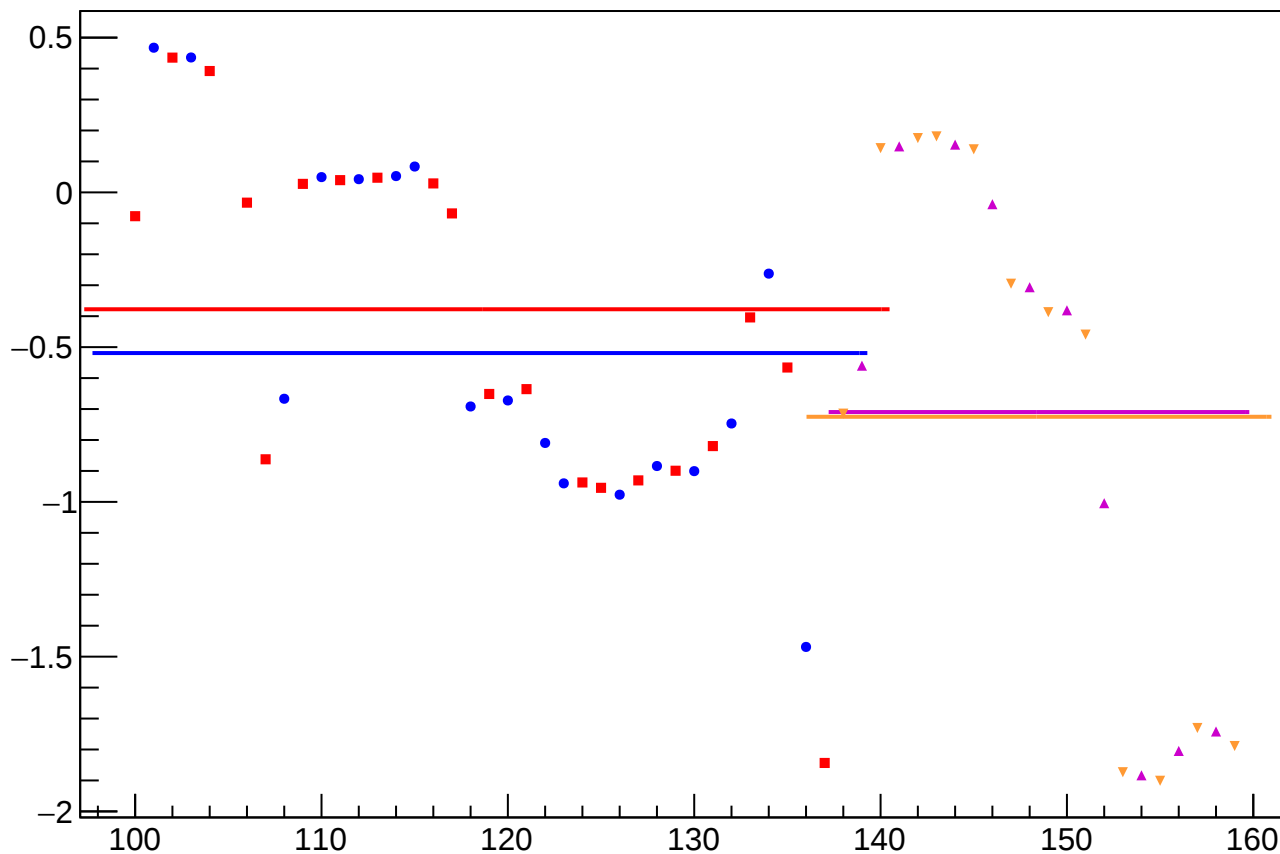
Right Out: 0.012+/-0.000 χ^2/NDF : 1012799.2/19

Left In: 0.007+/-0.000 χ^2/NDF : 650583.5/9

0.008+/-0.000 χ^2/NDF : 2892908.9/28

0.008+/-0.000 χ^2/NDF : 3221580.9/29

yield_bpm0r05X_mean vs Slug



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.725+/-0.000 χ^2/NDF : 786585274.1/11

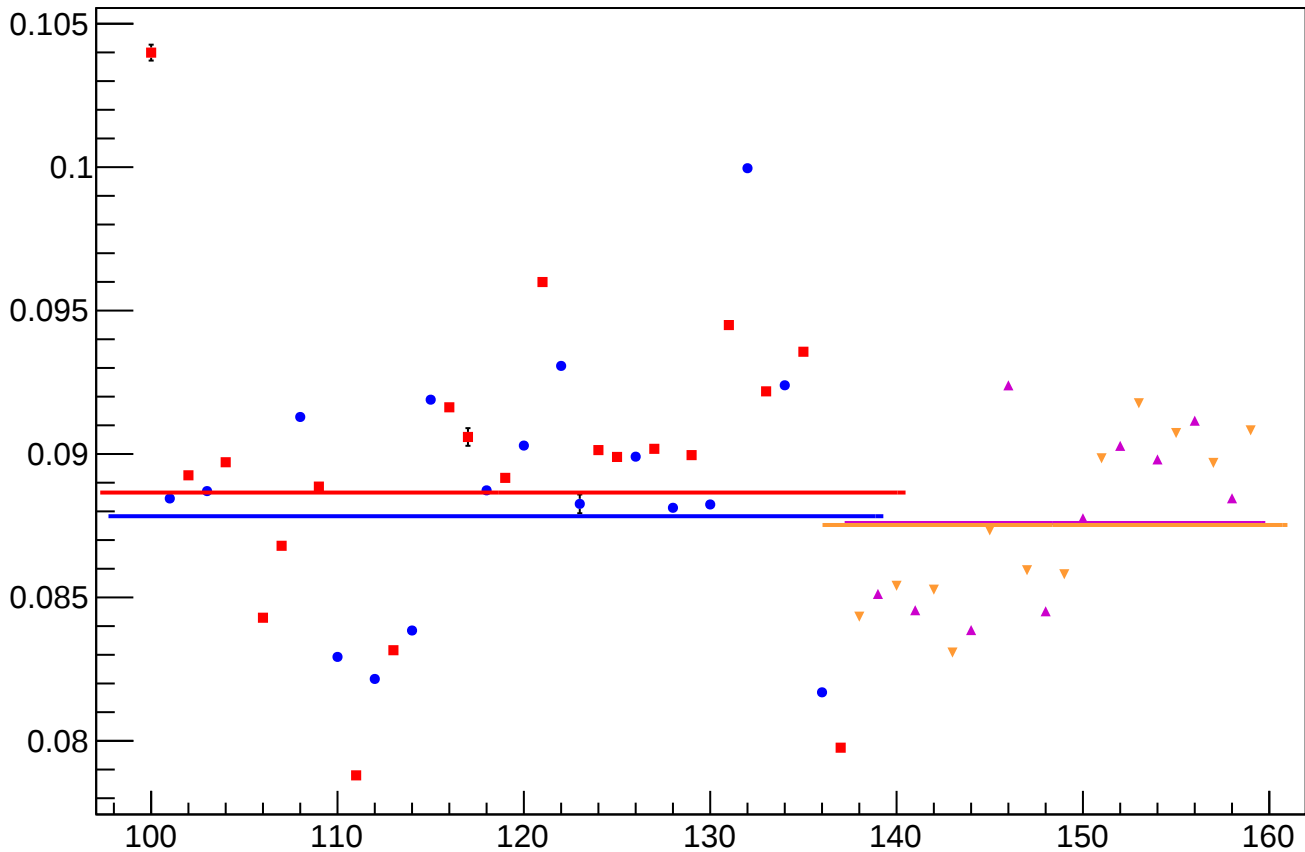
Right Out: -0.378+/-0.000 χ^2/NDF : 269130827.6/19

Left In: -0.710+/-0.000 χ^2/NDF : 625577005.4/9

-0.637+/-0.000 χ^2/NDF : 1147018994.9/28

-0.556+/-0.000 χ^2/NDF : 948419742.2/29

yield_bpm0r05X_rms vs Slug



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.088+/-0.000 χ^2/NDF : 18099.9/11

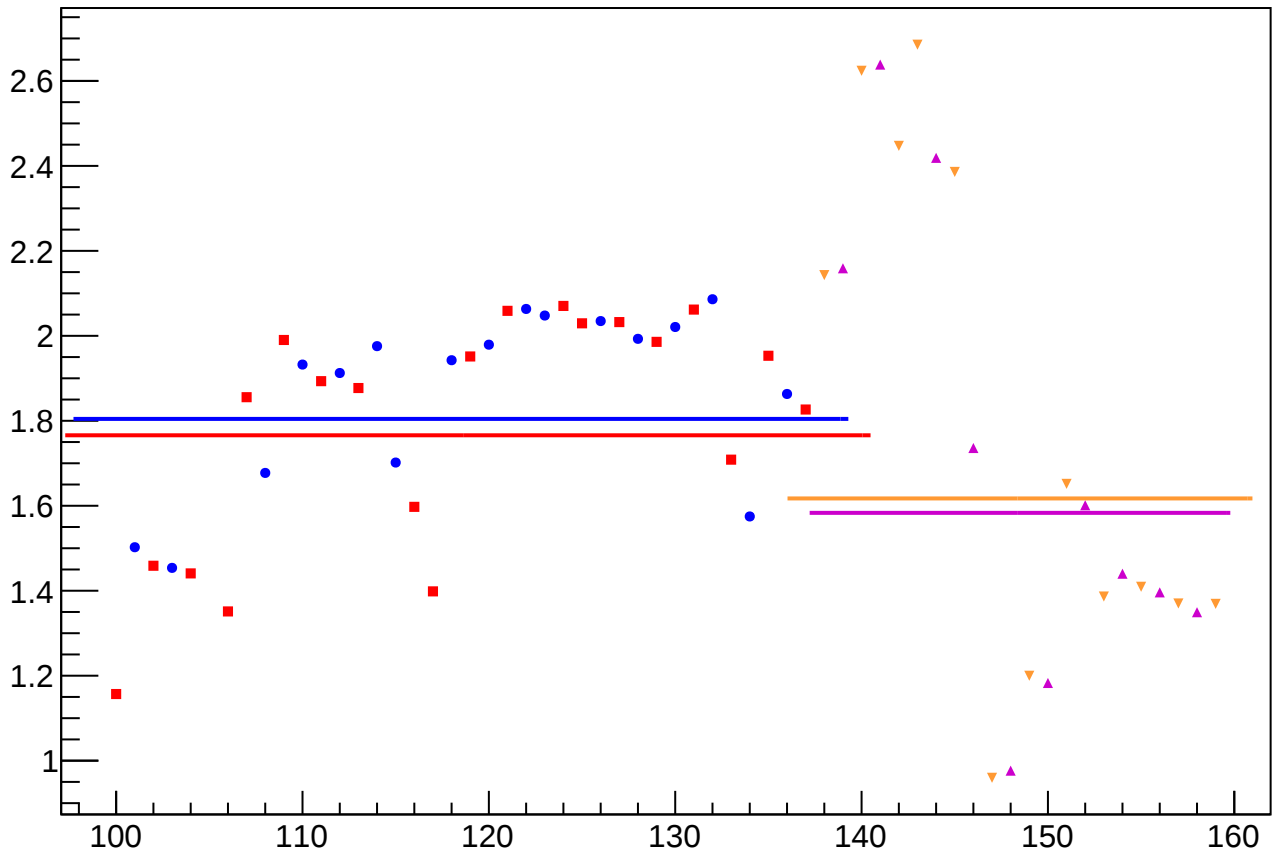
Right Out: 0.089+/-0.000 χ^2/NDF : 39762.8/19

Left In: 0.088+/-0.000 χ^2/NDF : 18043.5/9

0.088+/-0.000 χ^2/NDF : 53147.1/28

0.088+/-0.000 χ^2/NDF : 58902.3/29

yield_bpm0r05Y_mean vs Slug



Right In: 1.804 ± 0.000 χ^2/NDF : 1156747883.2/16

Left Out: 1.617 ± 0.000 χ^2/NDF : 21991108854.5/11

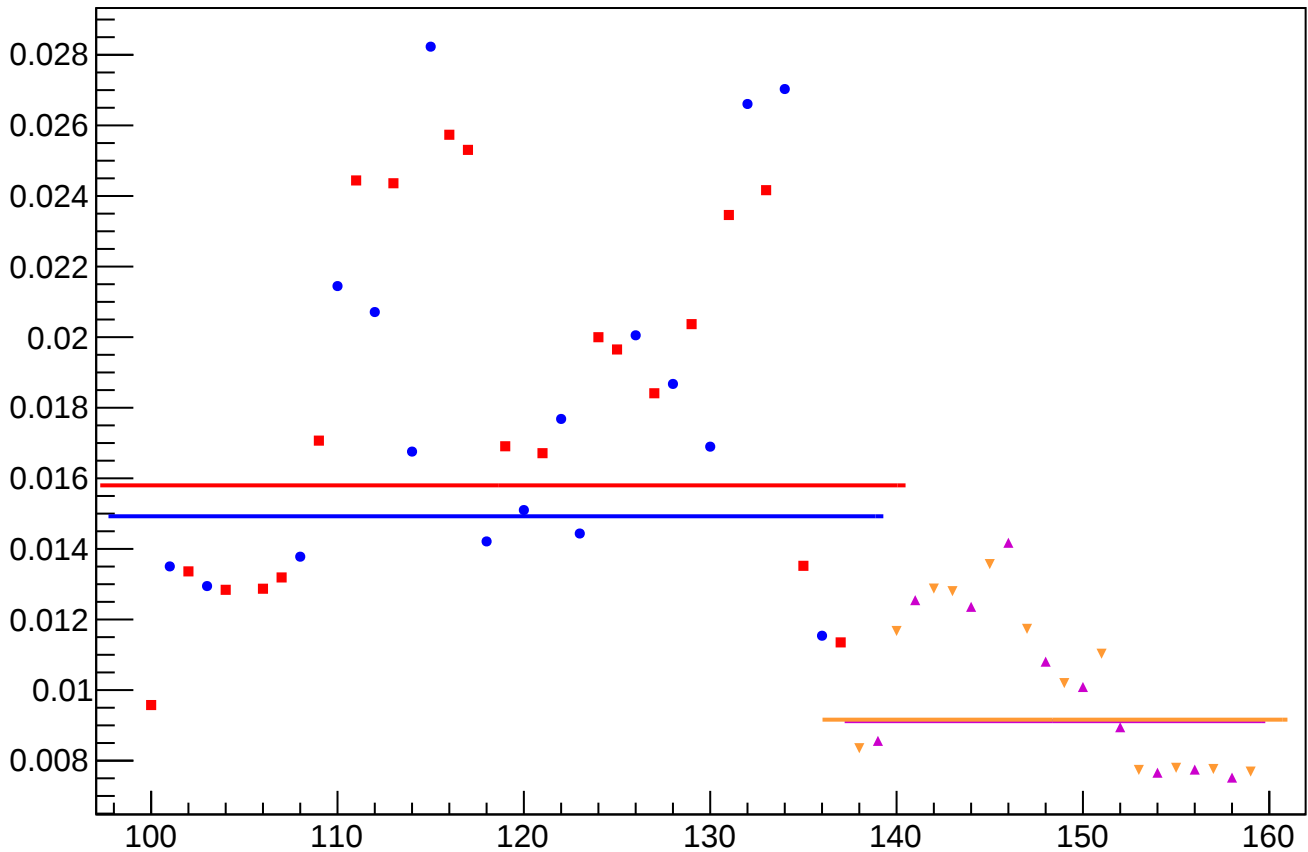
Right Out: 1.766 ± 0.000 χ^2/NDF : 1717275187.7/19

Left In: 1.583 ± 0.000 χ^2/NDF : 17097066444.5/9

1.657 ± 0.000 χ^2/NDF : 23861320929.3/28

1.623 ± 0.000 χ^2/NDF : 19449282224.0/29

yield_bpm0r05Y_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 715932.1/11

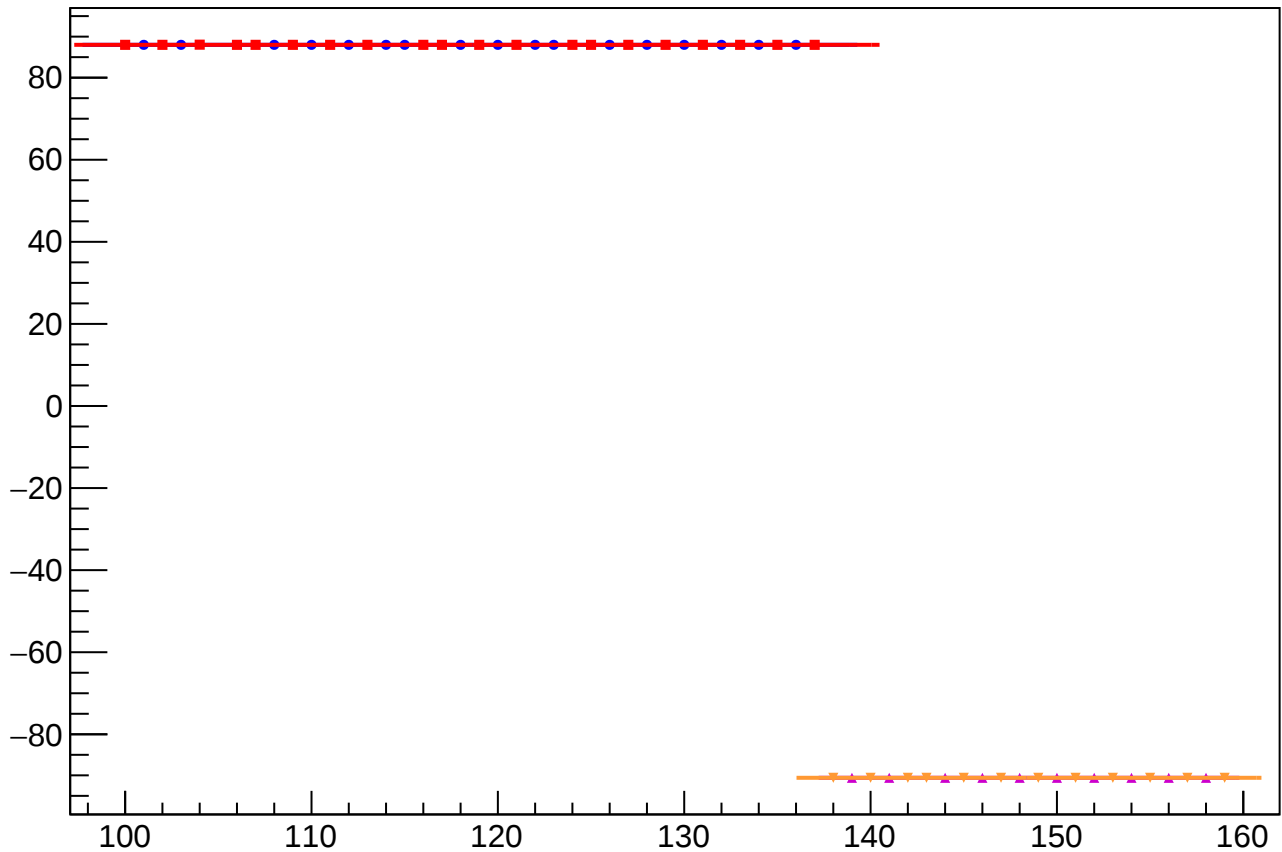
Right Out: 0.016+/-0.000 χ^2/NDF : 796839.8/19

Left In: 0.009+/-0.000 χ^2/NDF : 629534.3/9

0.010+/-0.000 χ^2/NDF : 2711741.5/28

0.011+/-0.000 χ^2/NDF : 3126851.8/29

epics_VWienAngles_mean vs Slug



Right In: 88.001+/-0.000 χ^2/NDF : 1852068.7/16

Left Out: -90.599+/-0.000 χ^2/NDF : 3719687.4/11

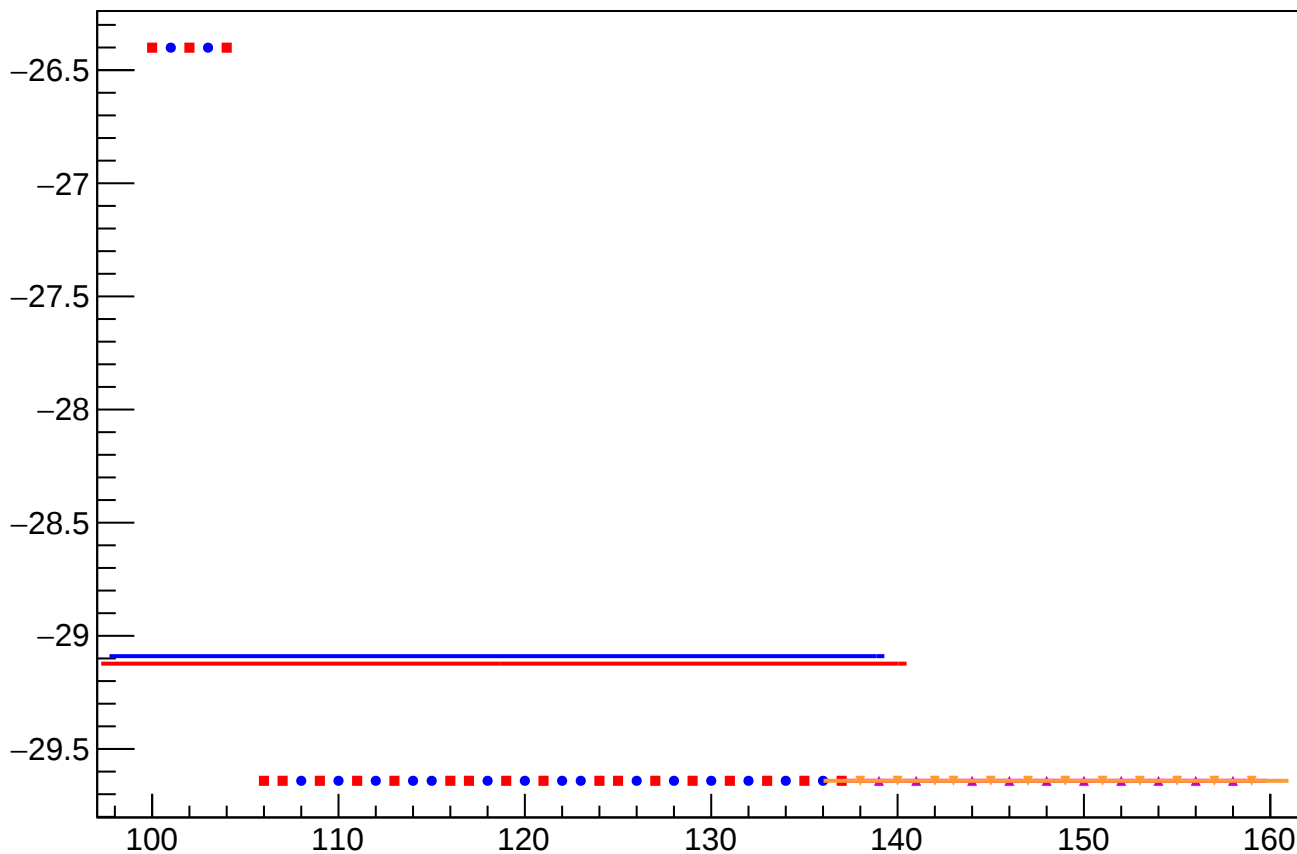
-13.993+/-0.000 χ^2/NDF : 12642001383040774

Right Out: 88.004+/-0.000 χ^2/NDF : 77578366411928007427611426816.0/19

-7.904+/-0.000 χ^2/NDF : 124359619416985378

Left In: -90.599+/-0.000 χ^2/NDF : 1004895.2/9

epics_HWienAngles_mean vs Slug



Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16

Left Out: -29.641+/-0.000 χ^2/NDF :198300.7/11

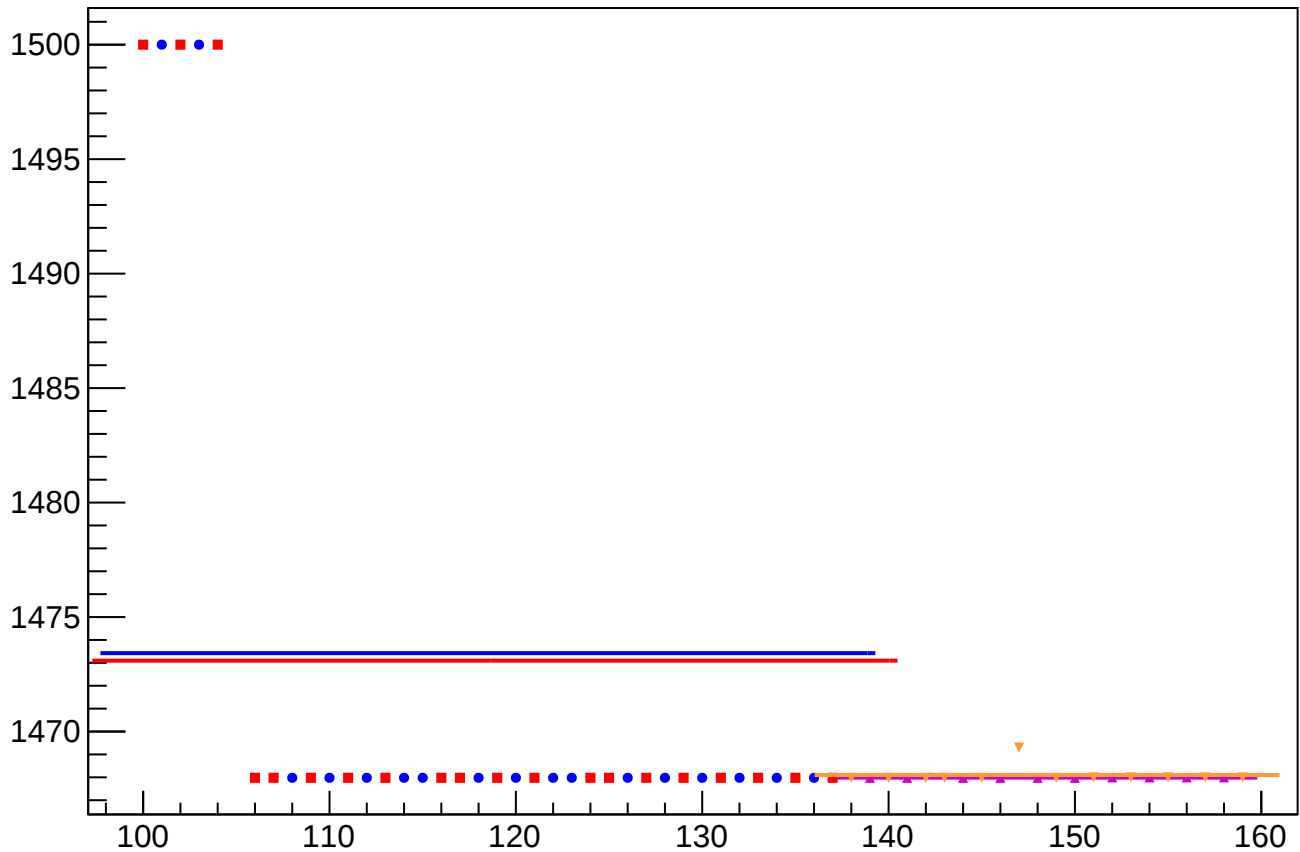
Right Out: -29.123+/-0.000 χ^2/NDF : 1023154512396702254583444720844800.0/19

Left In: -29.641+/-0.000 χ^2/NDF :62465.2/9

-29.404+/-0.000 χ^2/NDF : 11483777503090146

-29.401+/-0.000 χ^2/NDF : 11276350530612066

epics_psub_pl_poss_mean vs Slug



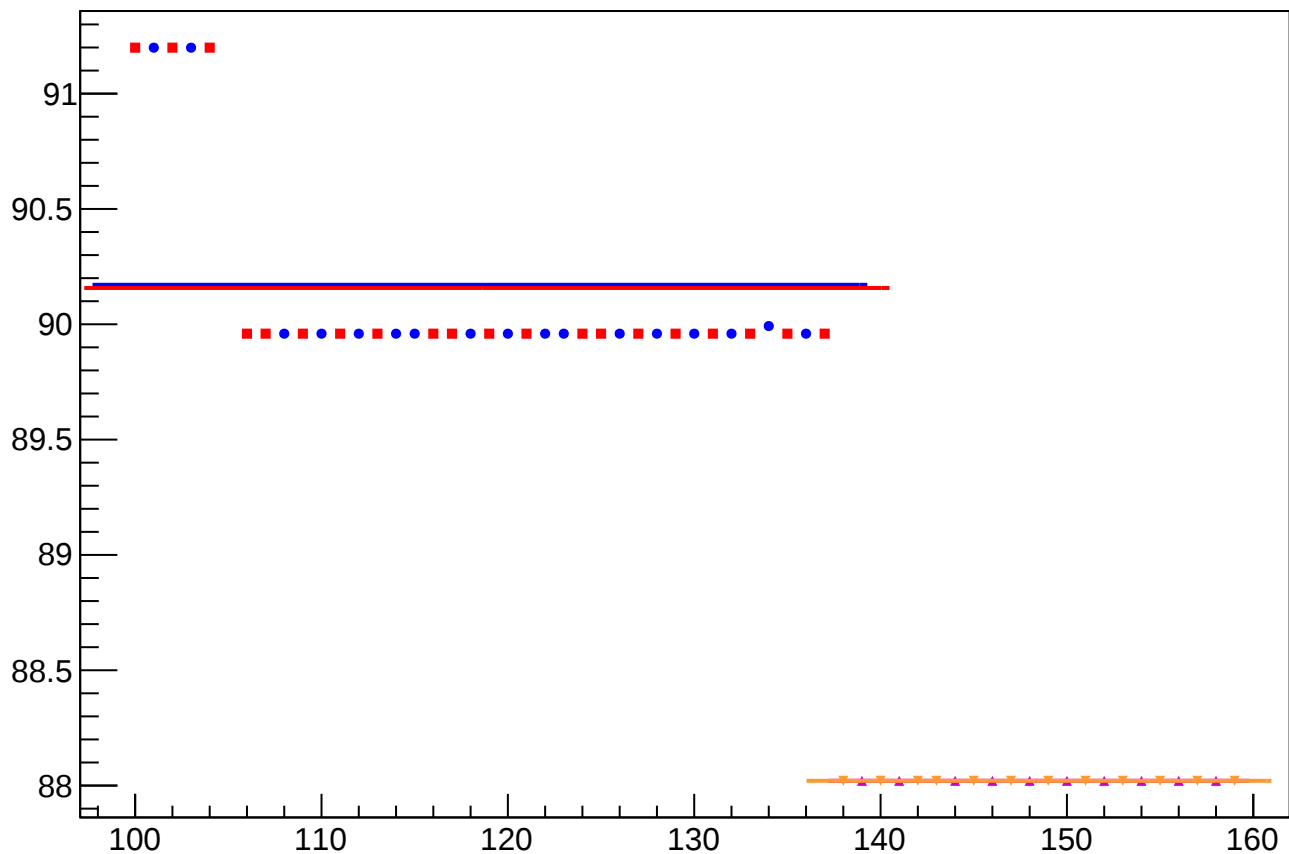
Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.100+/-0.000 χ^2/NDF : 123122523995989357945833520103424.0/11

Right Out: 1473.096+/-0.000 χ^2/NDF : 99938310777099611815298348687032320.0/19

Left In: 1467.987+/-0.000 χ^2/NDF : 81159619928364101572610752512.0/9

epics_Phi_FGs_mean vs Slug



Right In: 90.171+/-0.000 χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000 χ^2/NDF : 3066788.3/11

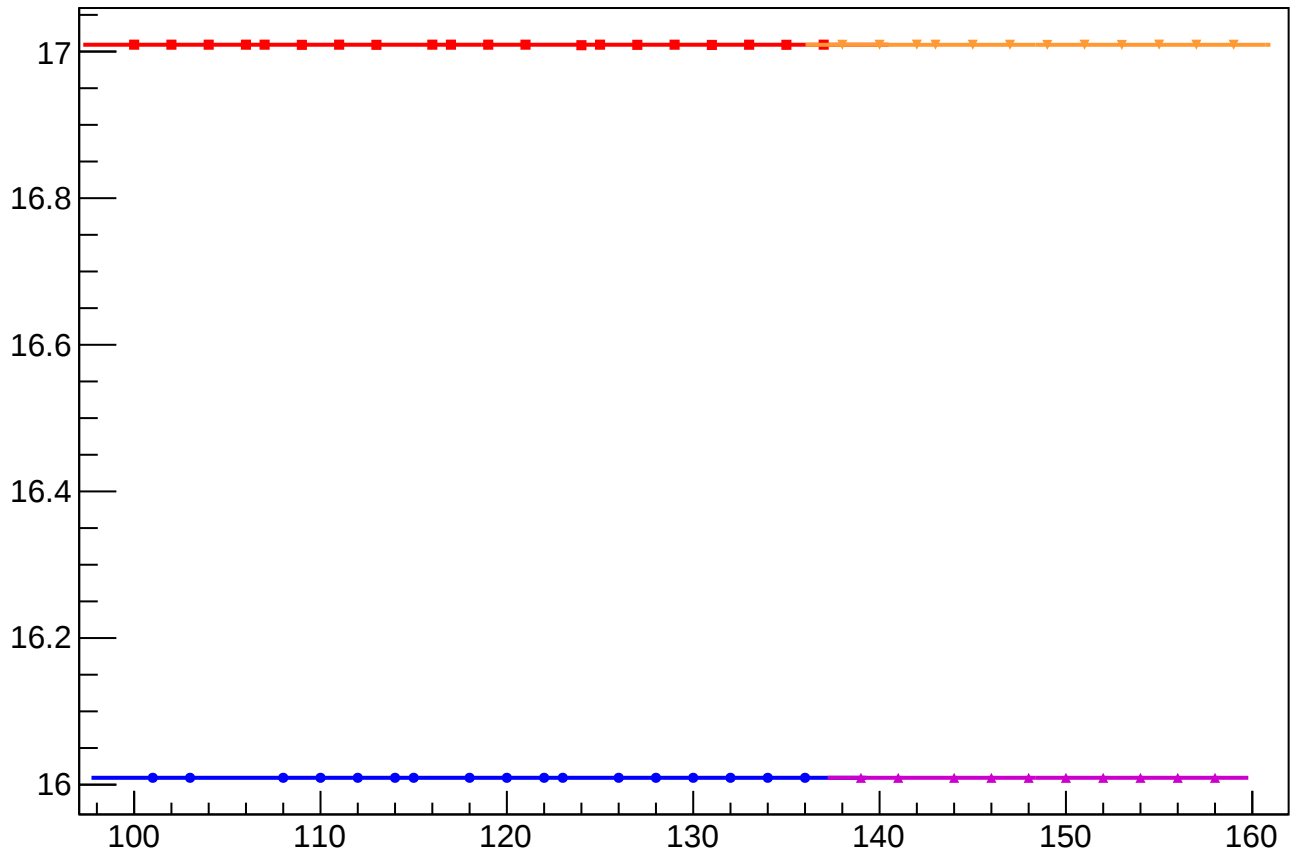
Right Out: 90.157+/-0.000 χ^2/NDF : 149863052341628336344772108091392.0/19

Left In: 88.021+/-0.000 χ^2/NDF : 1143633.7/9

88.943+/-0.000 χ^2/NDF : 198306743758159821

89.010+/-0.000 χ^2/NDF : 192977318659384796

epics_IGL1I00DI24_24Ms_mean vs Slug



Right In: 16.009 $\pm$ 0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2/NDF : 10208307372129150314741760.0/11

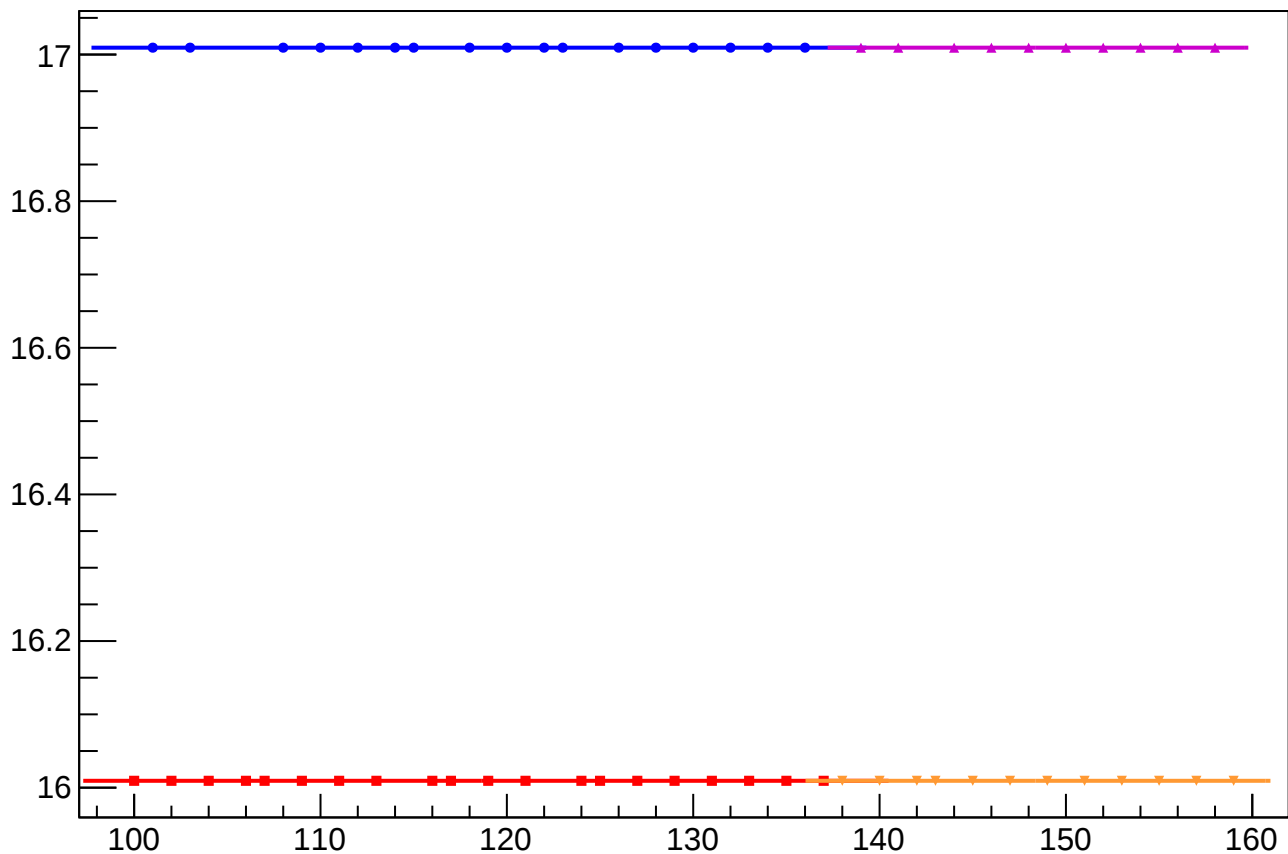
Right Out: 17.009 $\pm$ 0.000 χ^2/NDF : 12548783366686740957888512.0/19

Left In: 16.009 $\pm$ 0.000 χ^2/NDF : 32816.6/9

16.564 $\pm$ 0.000 χ^2/NDF : 367367198149583820

16.463 $\pm$ 0.000 χ^2/NDF : 359133258227163675

epics_IGL1I00OD16_16s_mean vs Slug



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39821.7/11

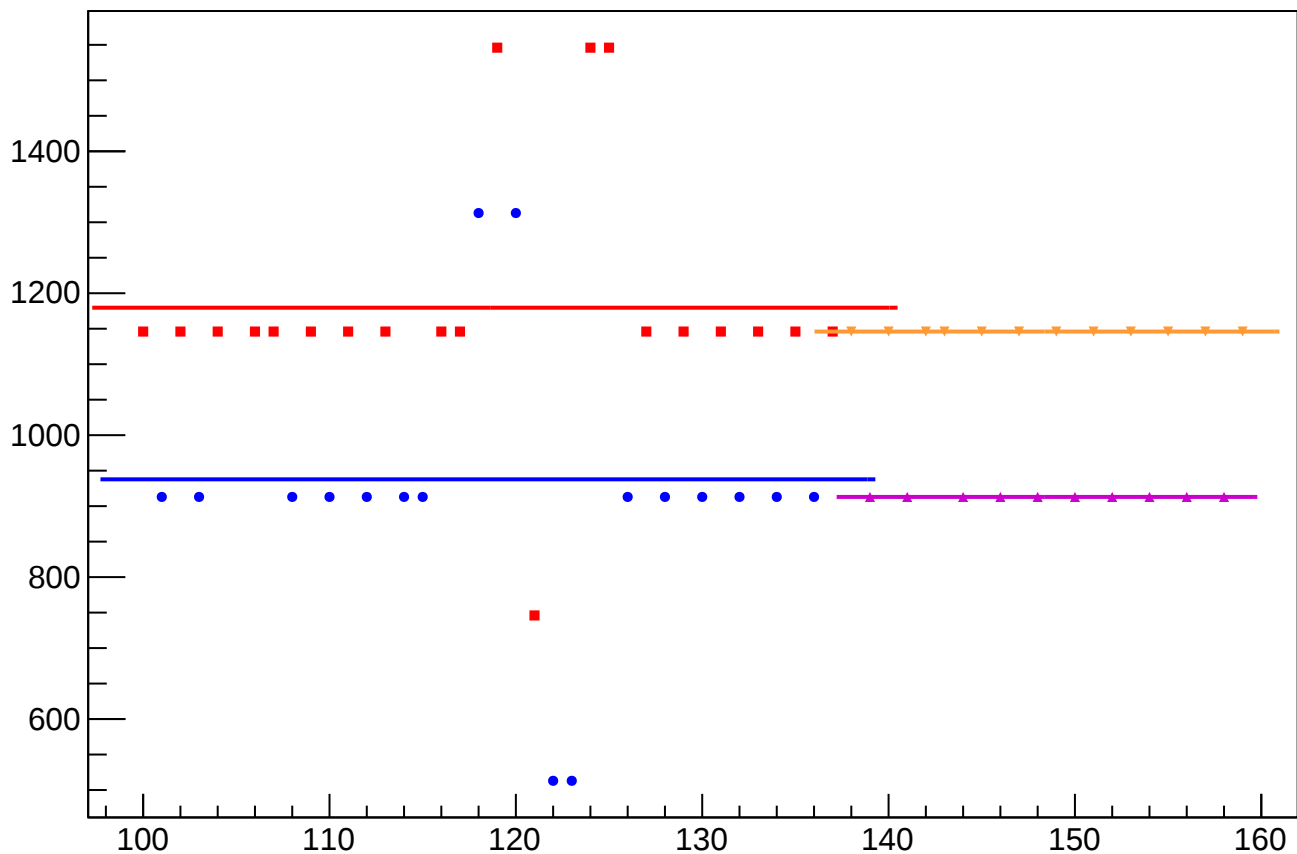
Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 42750.0/19

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 11044.1/9

16.429 $\pm$ 0.000 χ^2 /NDF: 384278833967042187

16.549 $\pm$ 0.000 χ^2 /NDF: 387827033952559745

epics_RTPAPOSUCNTs_mean vs Slug



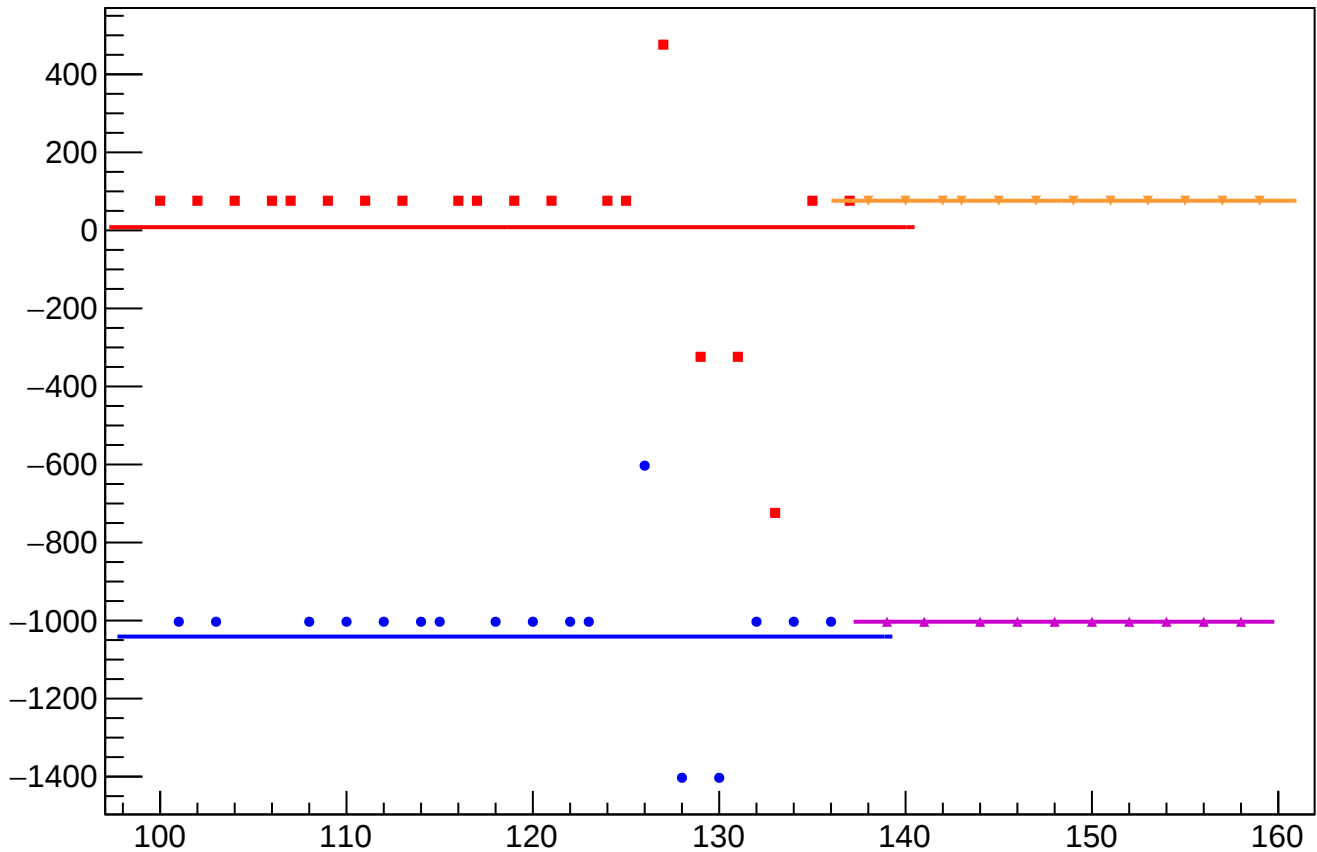
Right In: 937.779 +/- 0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16

Left Out: 1146.011 +/- 0.000 χ^2/NDF : 2664672947345146801672945664.0/11

Right Out: 1179.619 +/- 0.000 χ^2/NDF : 21420659731738679306829480097874968576.0/19

Left In: 912.994 +/- 0.000 χ^2/NDF : 10835086625686178227388678144.0/9

epics_RTPAPOSVCNTs_mean vs Slug



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 4212185533395648511756730368.0/11
 Right Out: 8.240+/-0.000 χ^2/NDF : 43865391744972338137265798243810279424.0/19
 Left In: -1002.990+/-0.000 χ^2/NDF : 1205031662171309616817766400.0/9