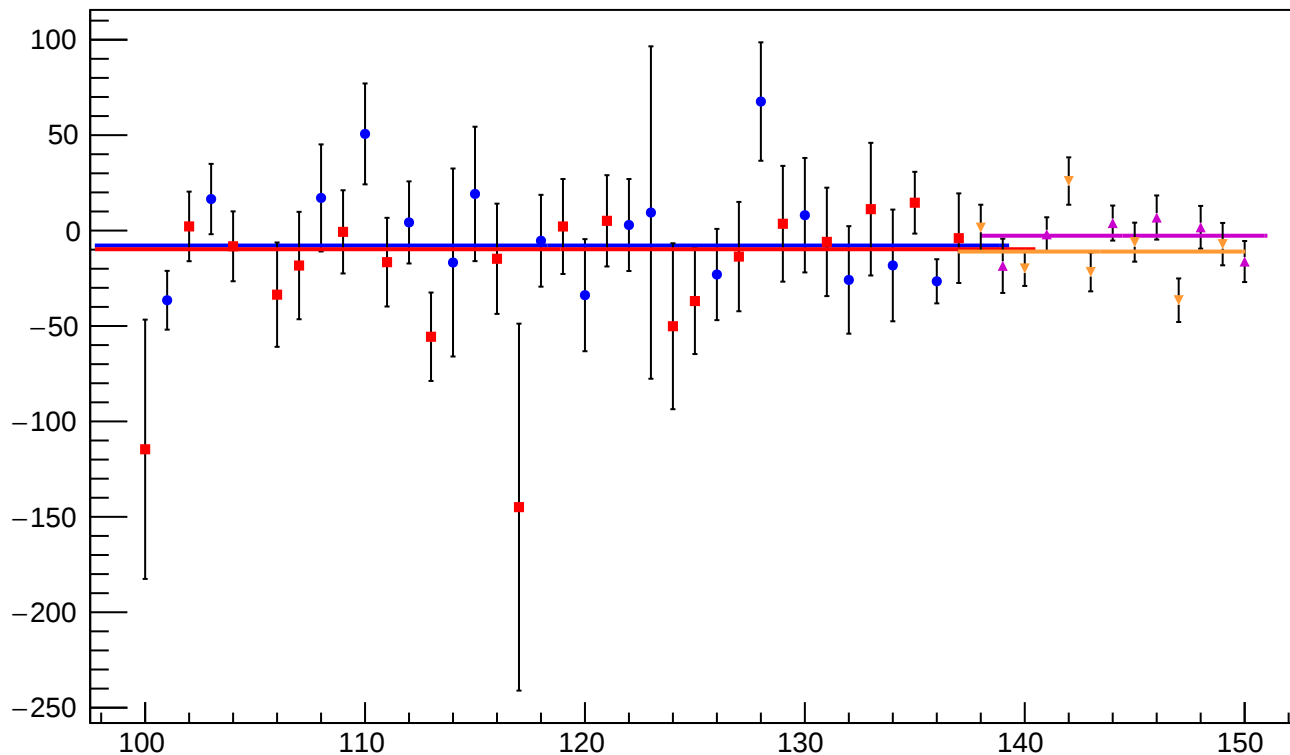


diff_bpm4aX_mean vs Slug



Right In: -7.841 ± 5.608

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

-9.907 ± 3.294

$\chi^2/\text{NDF}: 40.2/23$

Left Out: -10.995 ± 4.069

$\chi^2/\text{NDF}: 17.3/6$

Right Out: -9.781 ± 5.667

$\chi^2/\text{NDF}: 15.2/19$

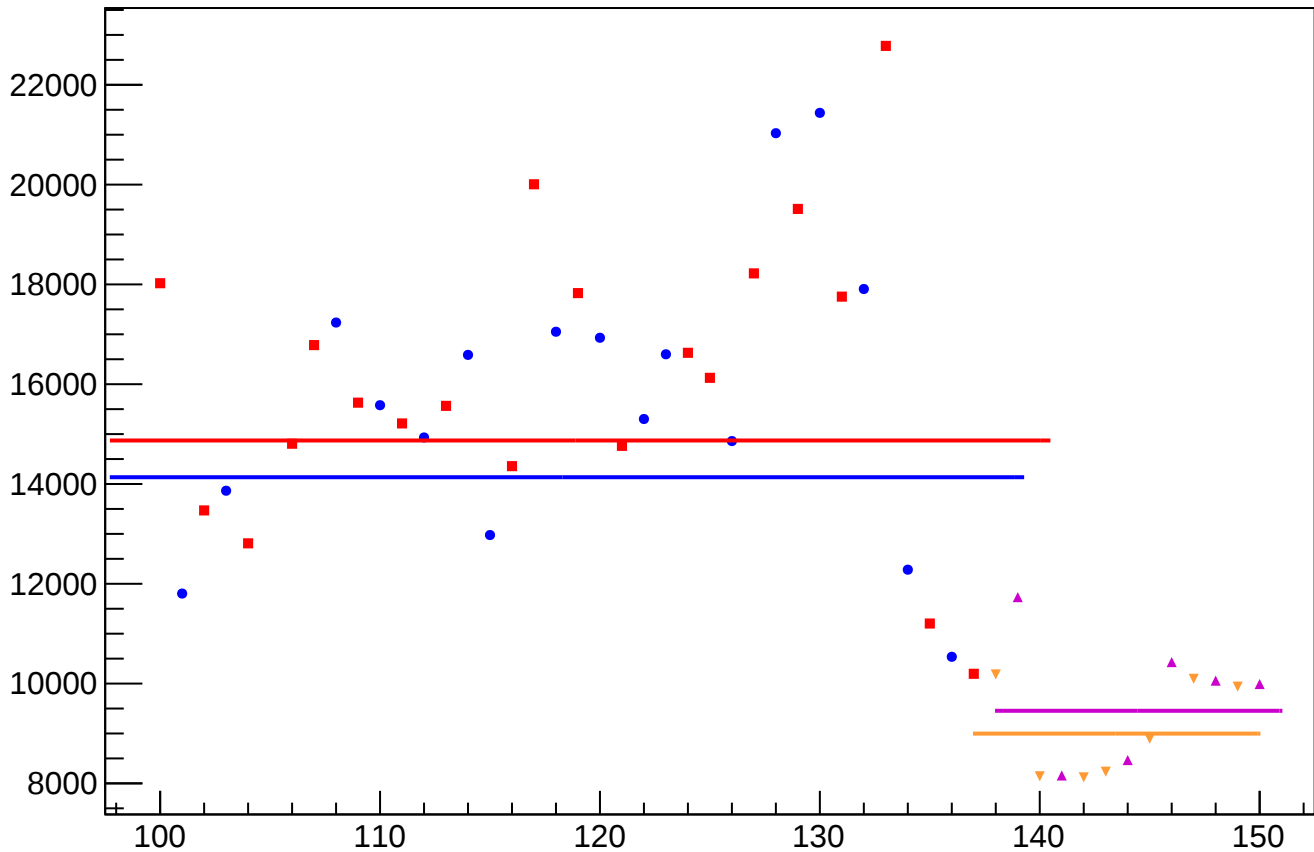
-5.305 ± 3.437

$\chi^2/\text{NDF}: 20.4/25$

Left In: -2.701 ± 4.323

$\chi^2/\text{NDF}: 4.2/5$

diff_bpm4aX_rms vs Slug



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

Left Out: 8997.598+/-2.878 χ^2/NDF : 91290.6/6

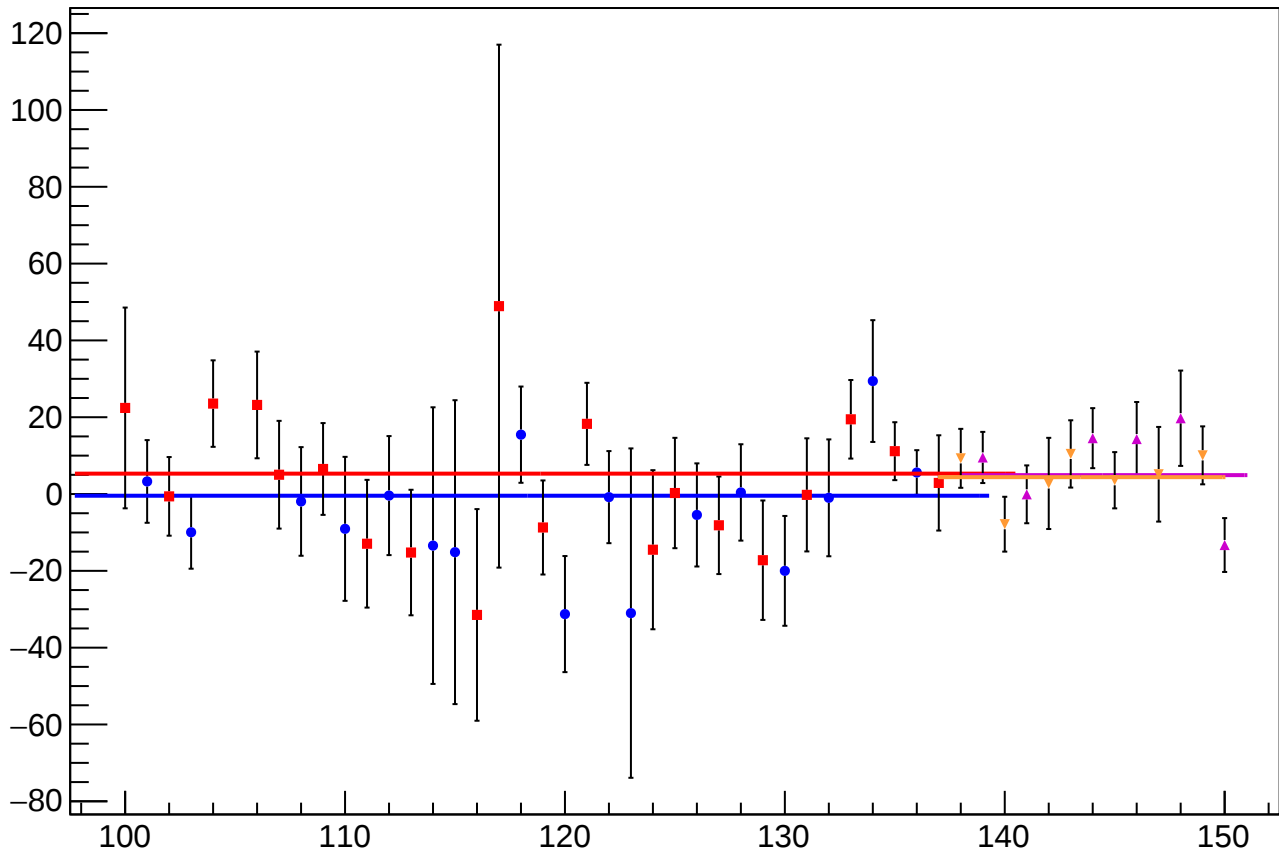
Right Out: 14871.940+/-4.007 χ^2/NDF : 477742.9/19

Left In: 9454.645+/-3.057 χ^2/NDF : 141749.6/5

10769.796+/-2.329 χ^2/NDF : 1788211.3/23

11447.450+/-2.431 χ^2/NDF : 1774674.2/25

diff_bpm4aY_mean vs Slug



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

Left Out: 4.394 ± 3.170 χ^2/NDF : 4.4/6

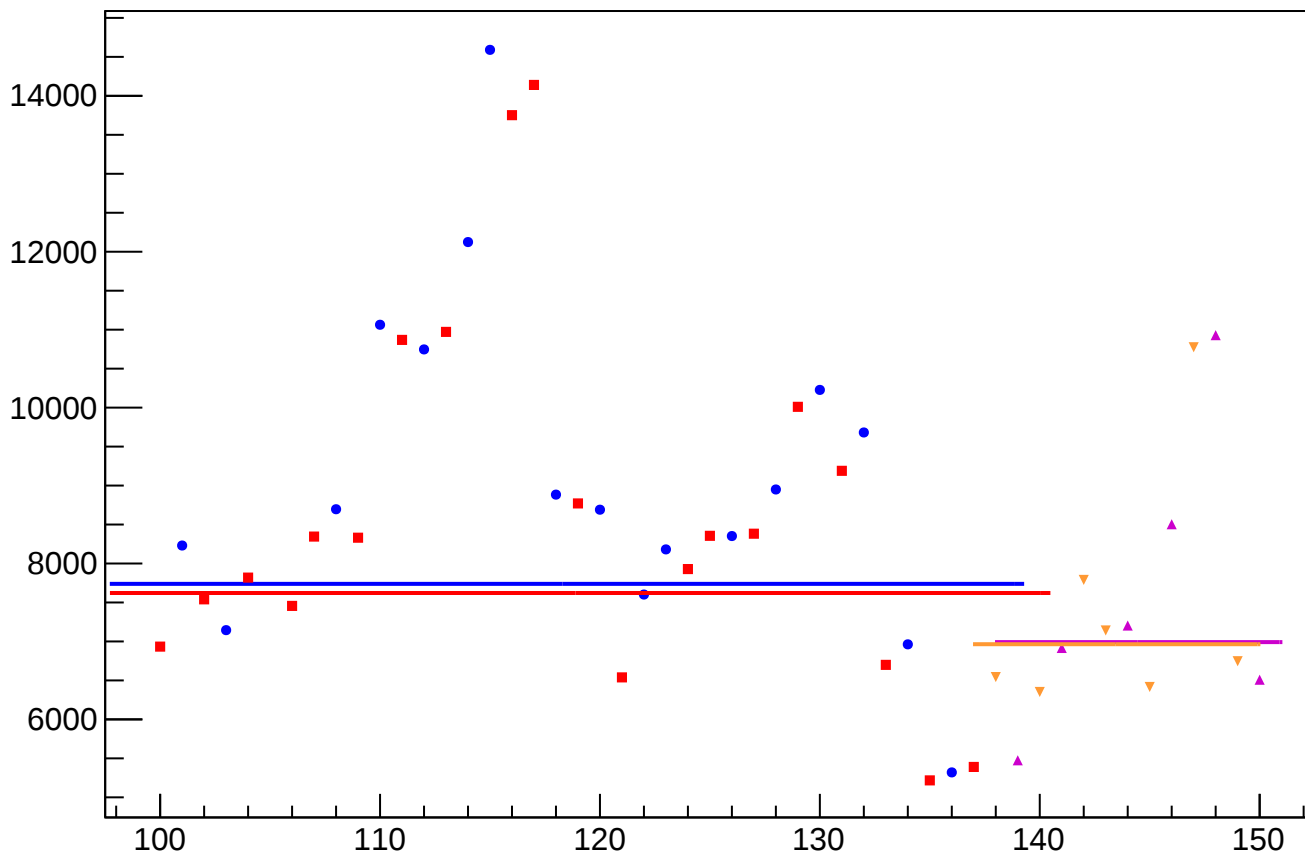
Right Out: 5.310 ± 2.933 χ^2/NDF : 19.8/19

Left In: 4.923 ± 3.260 χ^2/NDF : 11.5/5

1.899 ± 2.206 χ^2/NDF : 20.2/23

5.137 ± 2.180 χ^2/NDF : 31.3/25

diff_bpm4aY_rms vs Slug



Right In: 7738.886+/-2.172 χ^2 /NDF: 740836.7/16

Left Out: 6964.603+/-2.242 χ^2 /NDF: 235226.1/6

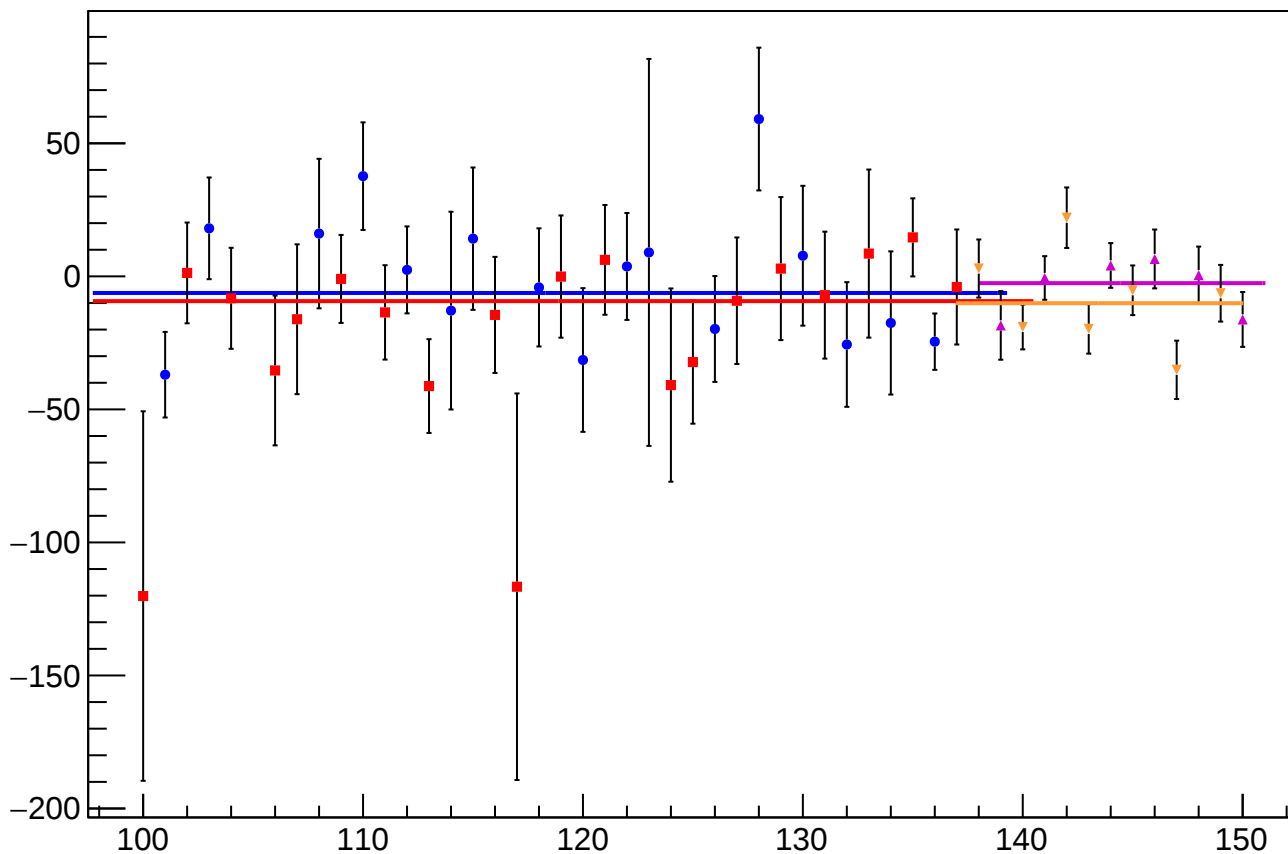
Right Out: 7621.652+/-2.074 χ^2 /NDF: 697548.6/19

Left In: 6991.518+/-2.305 χ^2 /NDF: 365311.8/5

7364.037+/-1.560 χ^2 /NDF: 1037611.0/23

7339.723+/-1.542 χ^2 /NDF: 1104160.4/25

diff_bpm4eX_mean vs Slug



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

Left Out: -10.088 ± 3.769 χ^2/NDF : 17.2/6

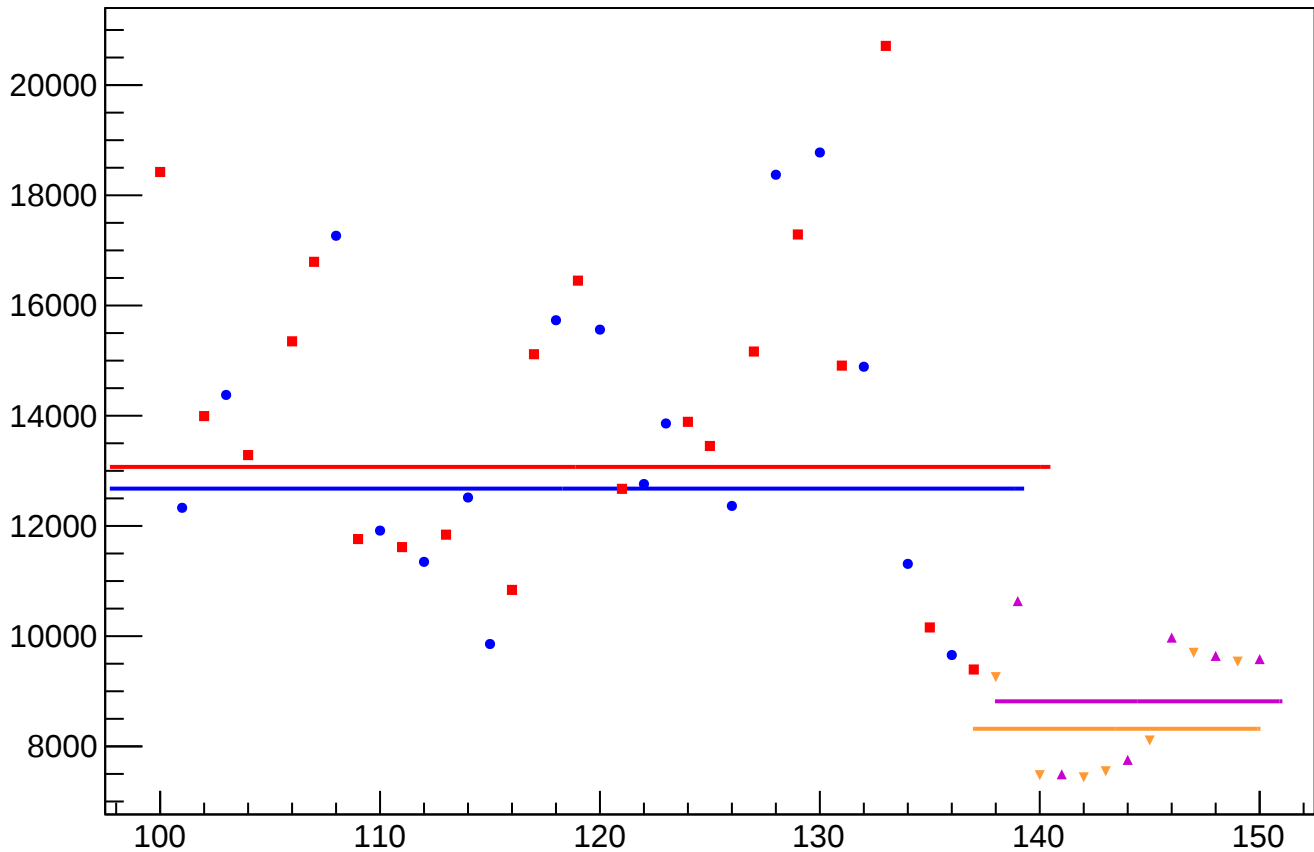
Right Out: -9.310 ± 4.987 χ^2/NDF : 15.3/19

Left In: -2.552 ± 4.037 χ^2/NDF : 4.7/5

-8.702 ± 3.013 χ^2/NDF : 40.8/23

-5.228 ± 3.138 χ^2/NDF : 21.1/25

diff_bpm4eX_rms vs Slug



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

Left Out: 8319.173+/-2.665 χ^2/NDF : 119308.5/6

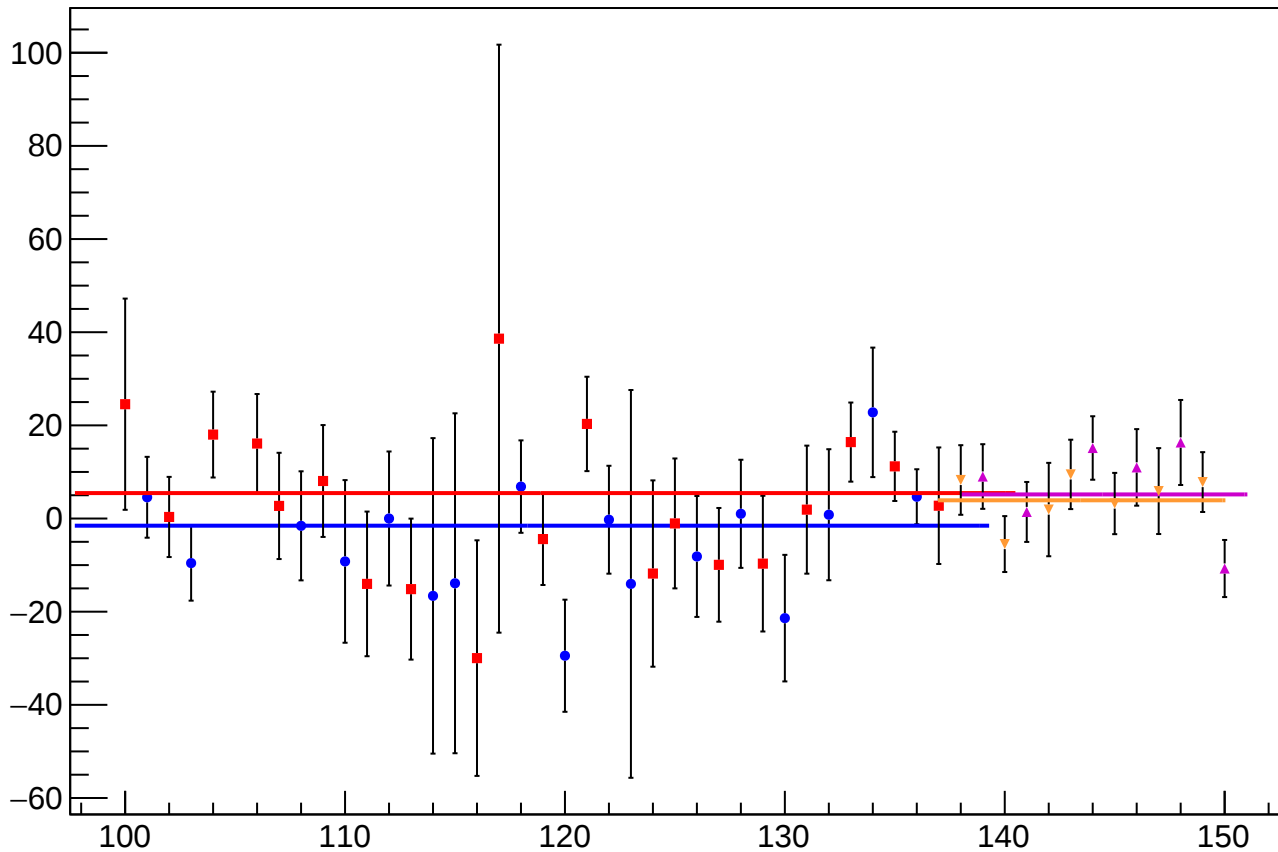
Right Out: 13071.522+/-3.527 χ^2/NDF : 499021.5/19

Left In: 8817.682+/-2.855 χ^2/NDF : 168723.4/5

9891.358+/-2.131 χ^2/NDF : 1637650.2/23

10501.717+/-2.219 χ^2/NDF : 1546659.2/25

diff_bpm4eY_mean vs Slug



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

Left Out: 3.912 ± 2.744 χ^2/NDF : 3.8/6

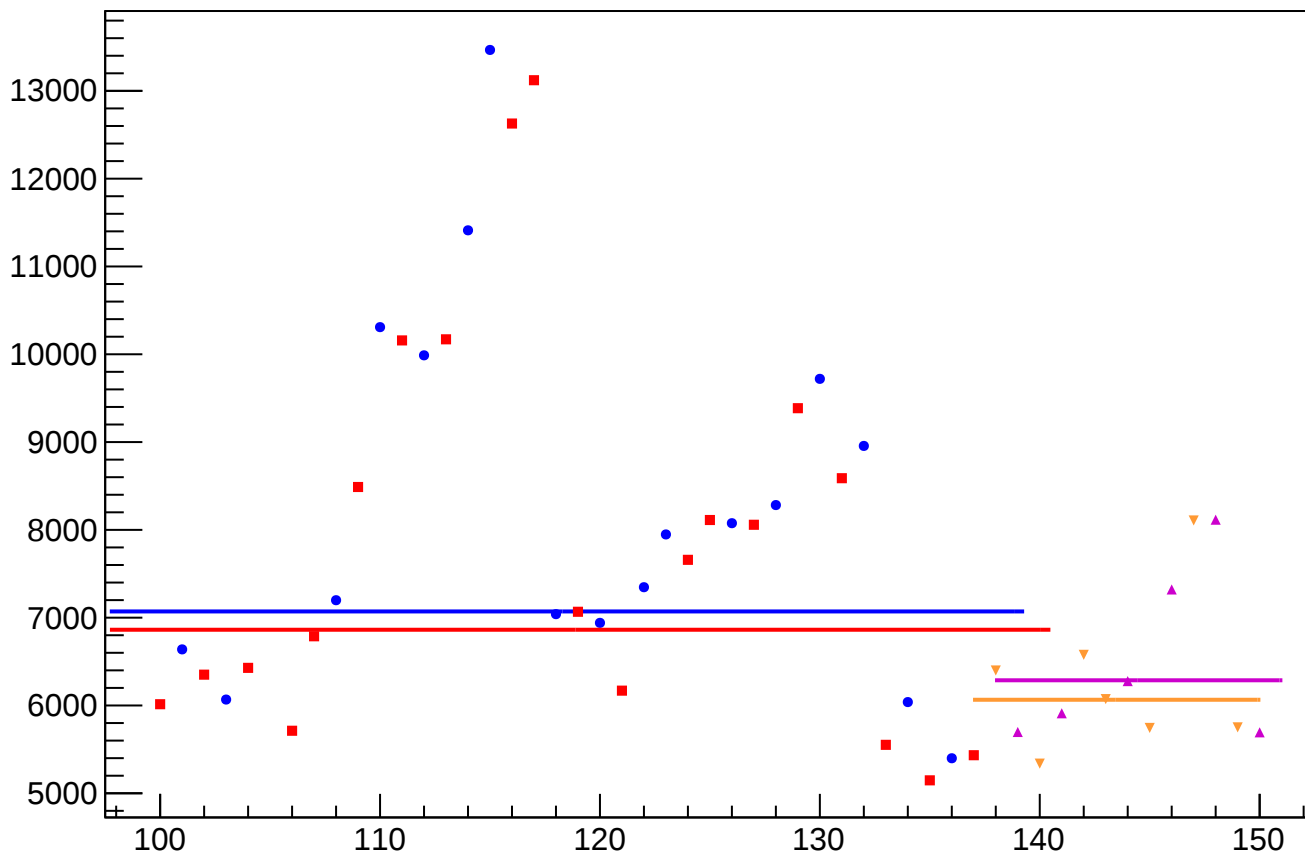
Right Out: 5.463 ± 2.637 χ^2/NDF : 18.9/19

Left In: 5.176 ± 2.888 χ^2/NDF : 11.5/5

1.233 ± 1.957 χ^2/NDF : 20.6/23

5.332 ± 1.948 χ^2/NDF : 30.4/25

diff_bpm4eY_rms vs Slug



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

Left Out: 6065.103+/-1.941 χ^2/NDF :146206.1/6

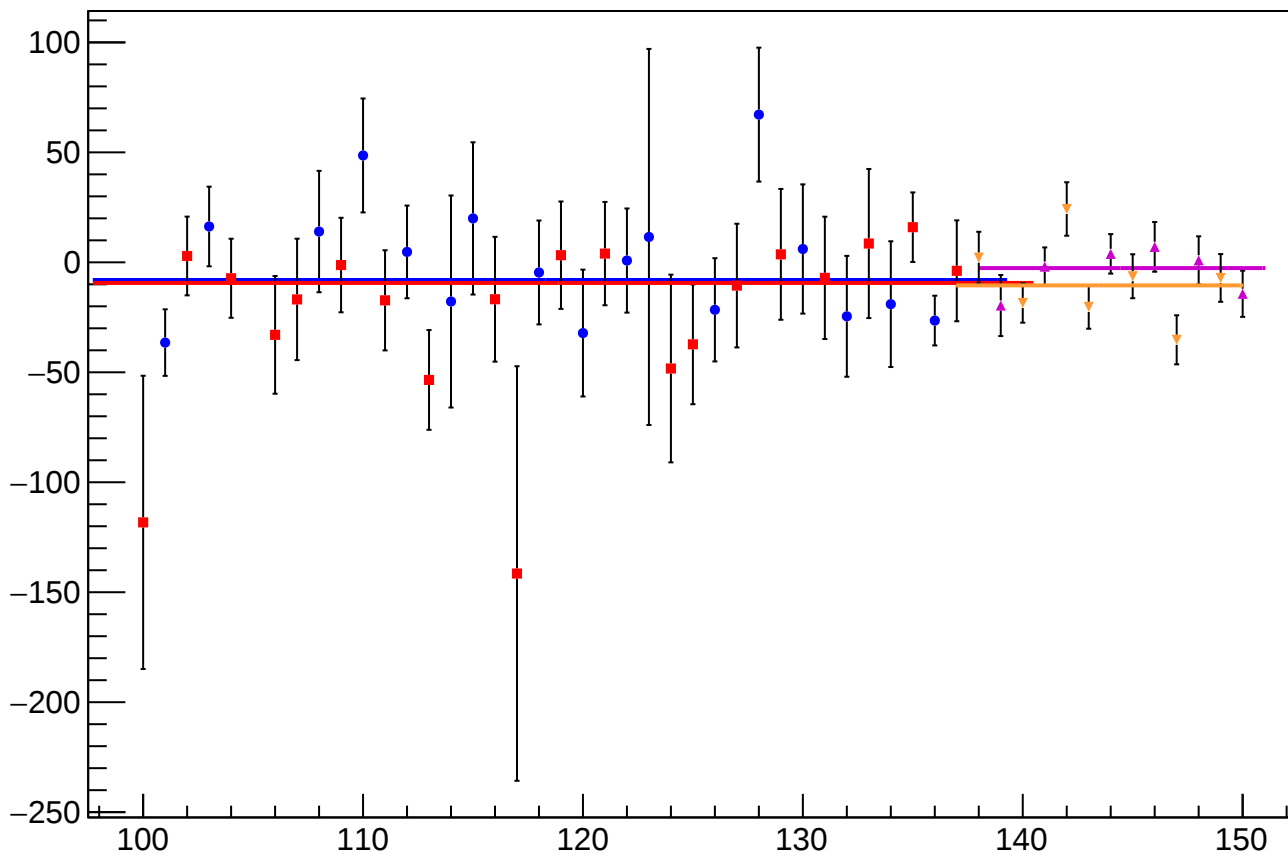
Right Out: 6862.551+/-1.865 χ^2/NDF : 704099.3/19

Left In: 6286.939+/-2.042 χ^2/NDF :151928.8/5

6559.730+/-1.384 χ^2/NDF : 879072.8/23

6600.851+/-1.377 χ^2/NDF : 899343.0/25

diff_bpm4acX_mean vs Slug



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

Left Out: -10.490 ± 3.980 χ^2/NDF : 16.3/6

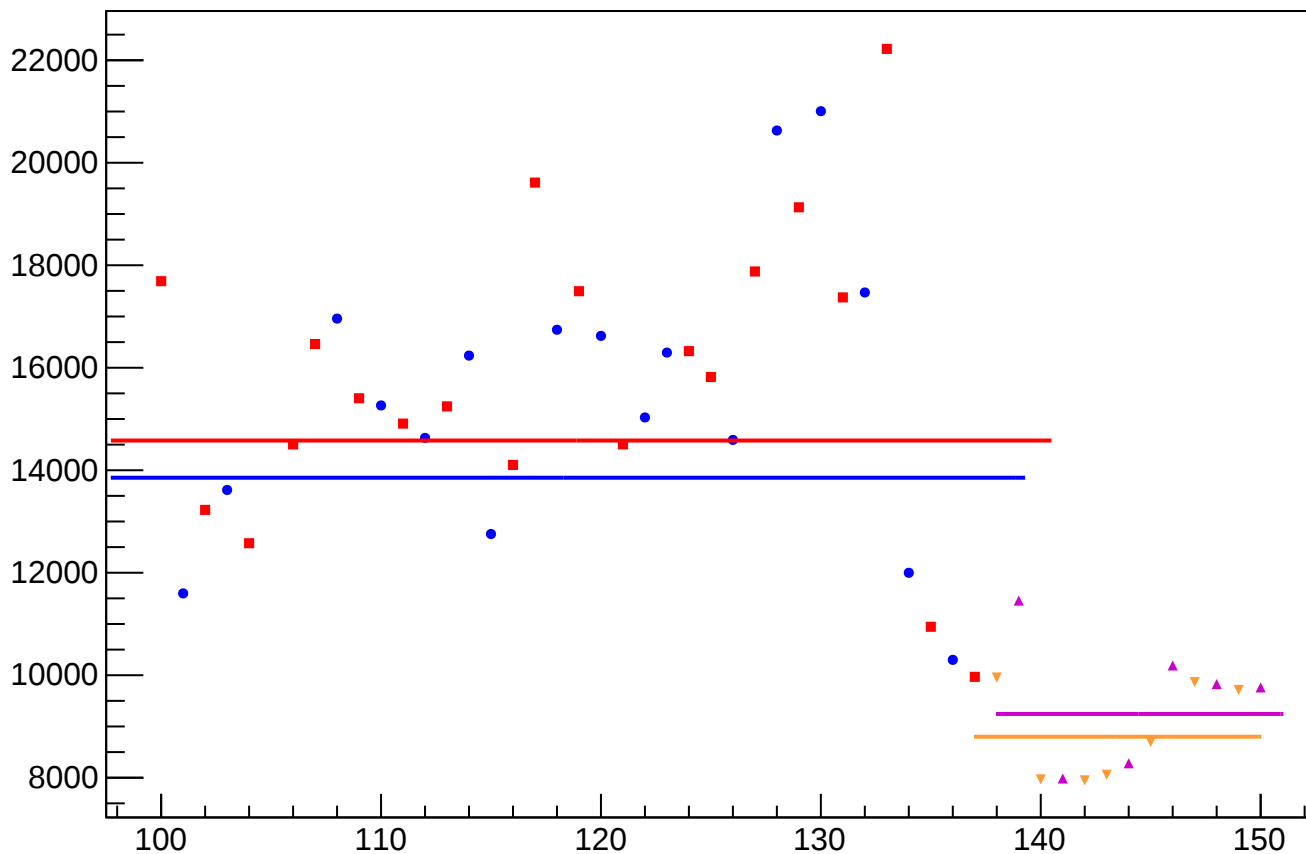
Right Out: -9.368 ± 5.556 χ^2/NDF : 15.7/19

Left In: -2.619 ± 4.227 χ^2/NDF : 4.1/5

-9.646 ± 3.224 χ^2/NDF : 39.0/23

-5.092 ± 3.364 χ^2/NDF : 20.7/25

diff_bpm4acX_rms vs Slug



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

Left Out: 8800.380+/-2.814 χ^2/NDF : 90226.2/6

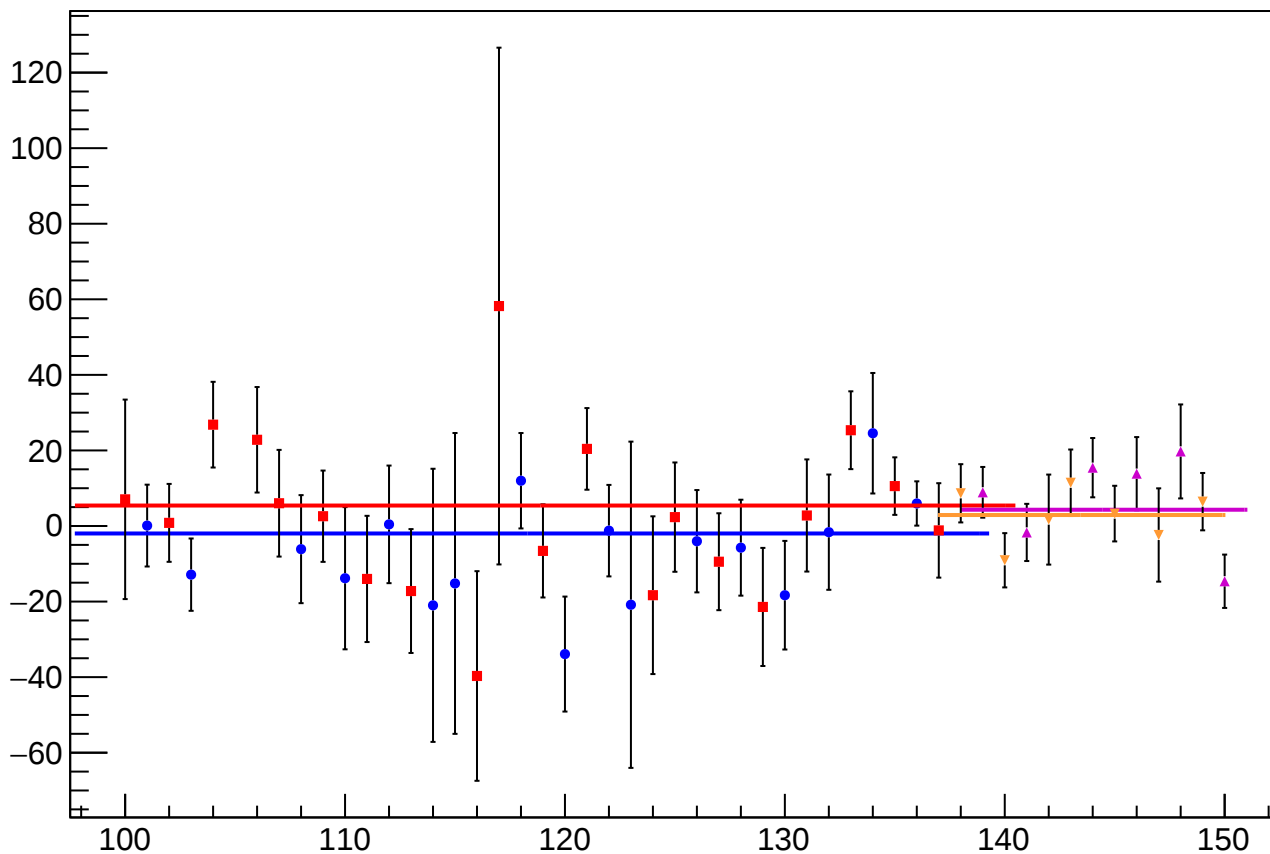
Right Out: 14579.863+/-3.929 χ^2/NDF : 480003.4/19

Left In: 9244.285+/-2.989 χ^2/NDF : 139960.7/5

10538.203+/-2.279 χ^2/NDF : 1800231.9/23

11199.904+/-2.379 χ^2/NDF : 1788178.3/25

diff_bpm4acY_mean vs Slug



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

Left Out: 2.905 ± 3.185 χ^2/NDF : 4.7/6

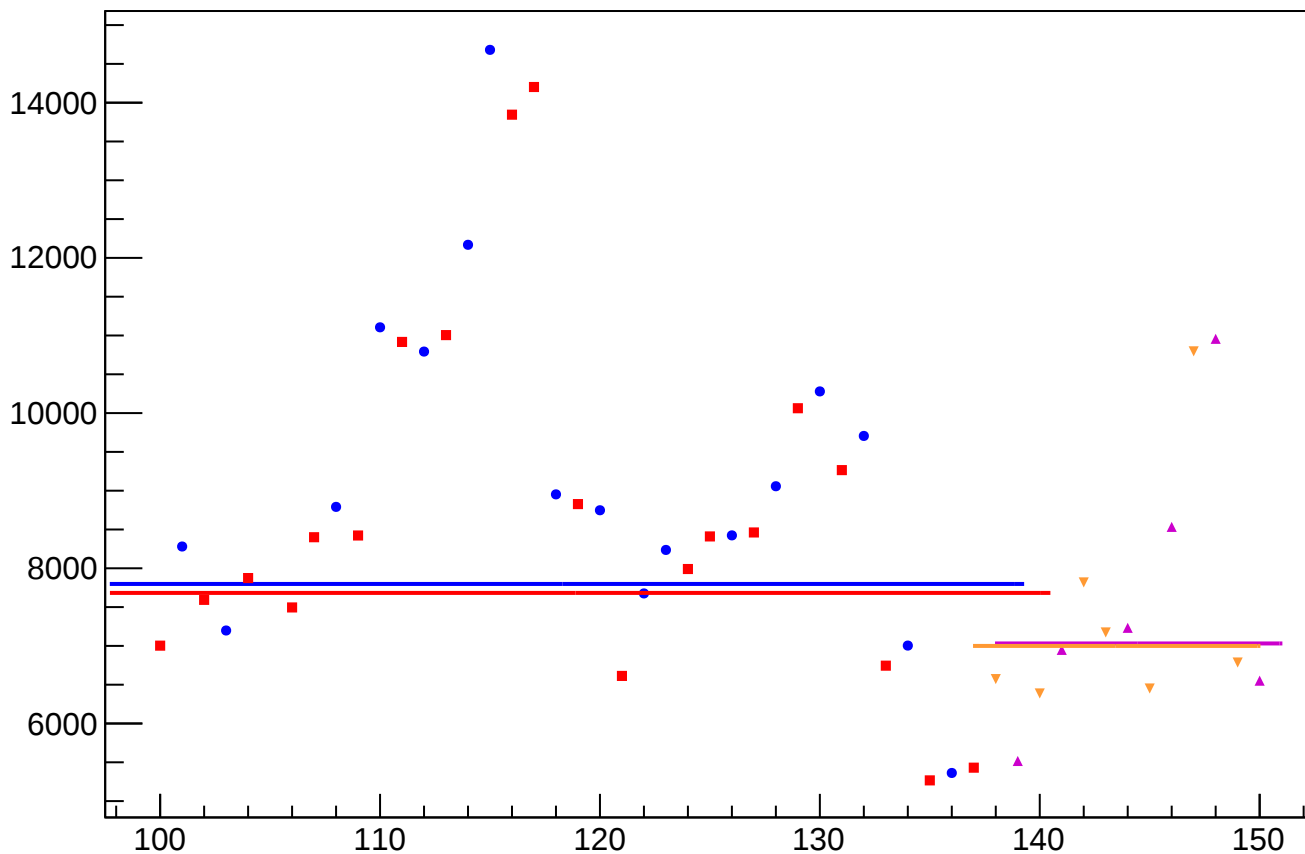
Right Out: 5.417 ± 2.956 χ^2/NDF : 24.9/19

Left In: 4.306 ± 3.277 χ^2/NDF : 12.8/5

0.392 ± 2.219 χ^2/NDF : 20.0/23

4.918 ± 2.195 χ^2/NDF : 37.8/25

diff_bpm4acY_rms vs Slug



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

Left Out: 6999.655+/-2.252 χ^2 /NDF:232646.0/6

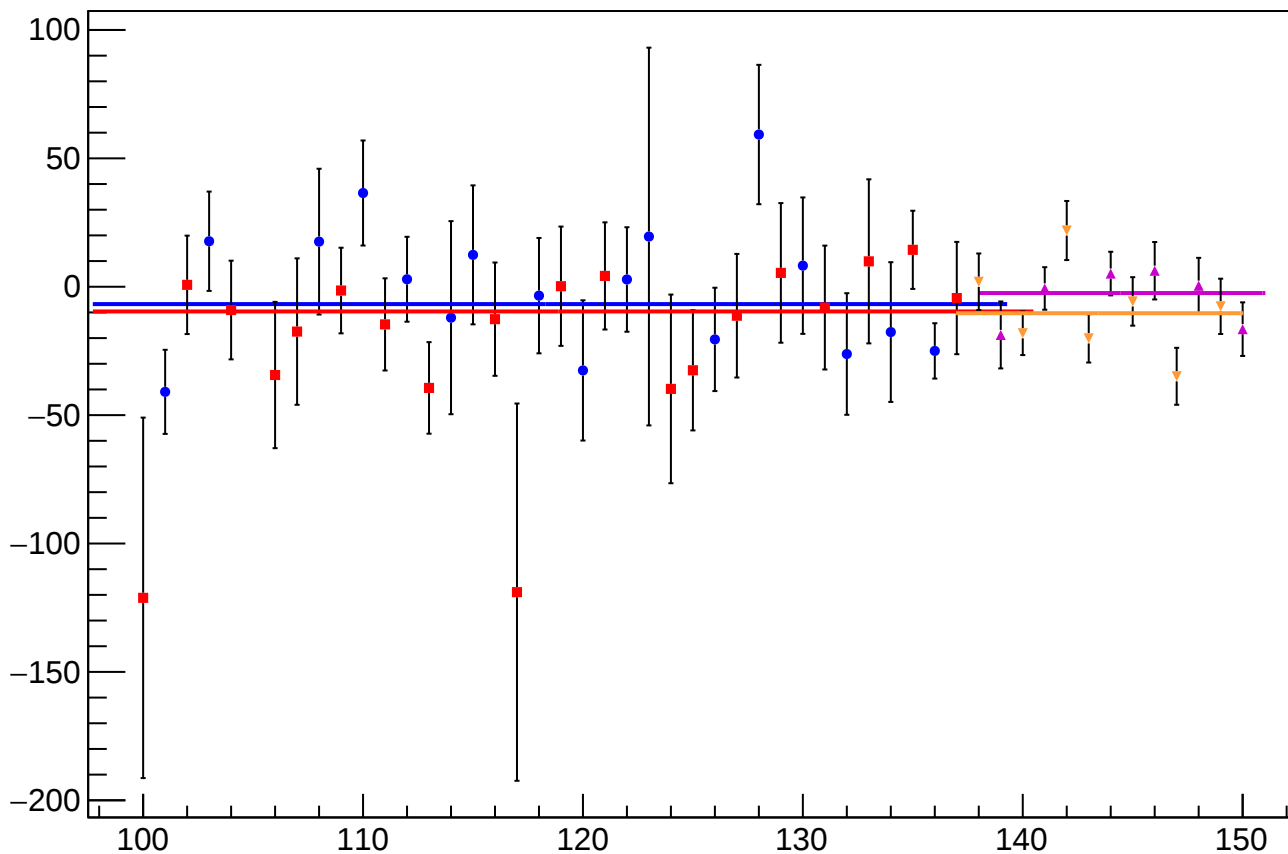
Right Out: 7682.786+/-2.090 χ^2 /NDF: 690901.2/19

Left In: 7031.457+/-2.317 χ^2 /NDF:360120.3/5

7410.593+/-1.569 χ^2 /NDF: 1033614.7/23

7390.591+/-1.552 χ^2 /NDF: 1094589.7/25

diff_bpm4ecX_mean vs Slug



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

Left Out: -10.311 ± 3.809 $\chi^2/\text{NDF}: 16.2/6$

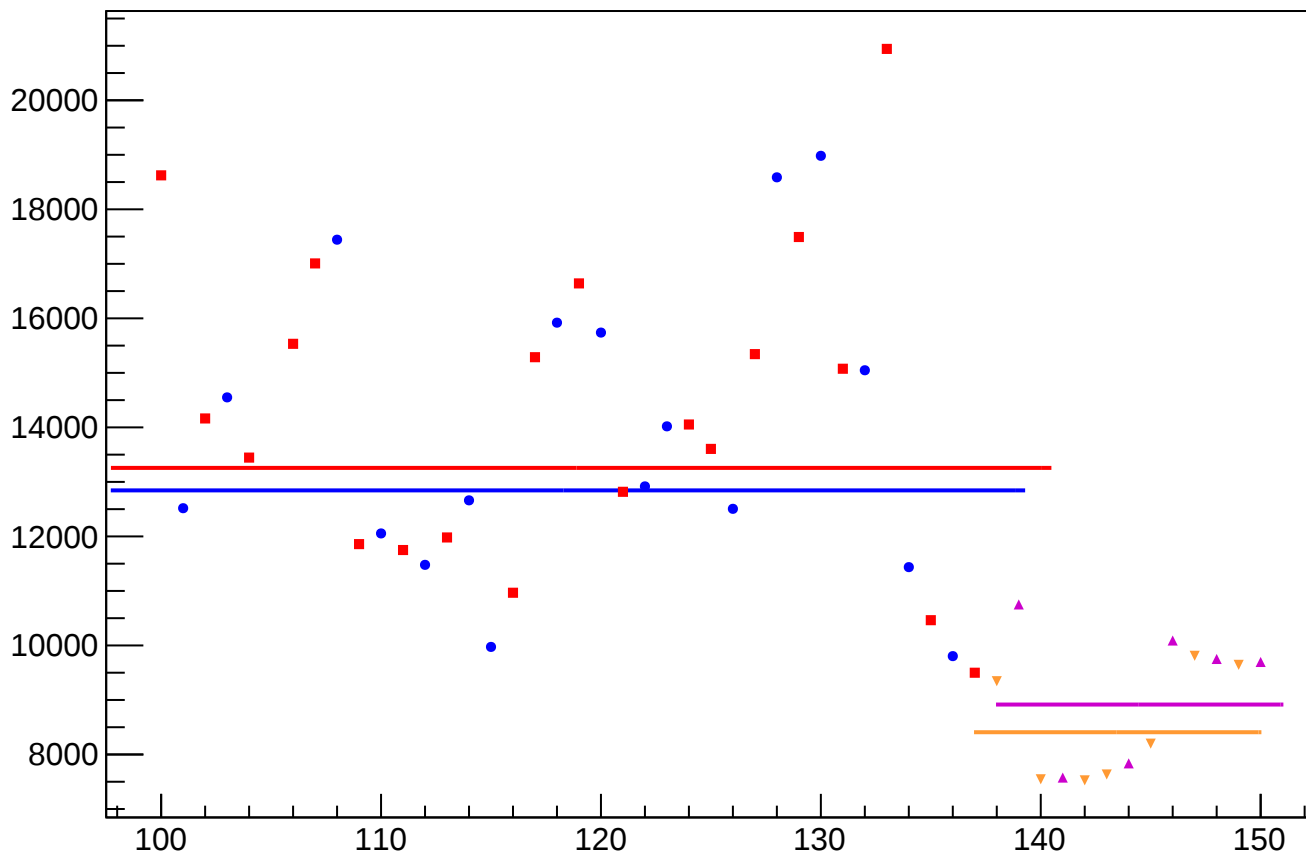
Right Out: -9.622 ± 5.058 $\chi^2/\text{NDF}: 14.5/19$

Left In: -2.459 ± 4.083 $\chi^2/\text{NDF}: 4.9/5$

-9.034 ± 3.049 $\chi^2/\text{NDF}: 40.2/23$

-5.284 ± 3.177 $\chi^2/\text{NDF}: 20.6/25$

diff_bpm4ecX_rms vs Slug



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

Left Out: 8408.315+/-2.694 χ^2/NDF :119689.1/6

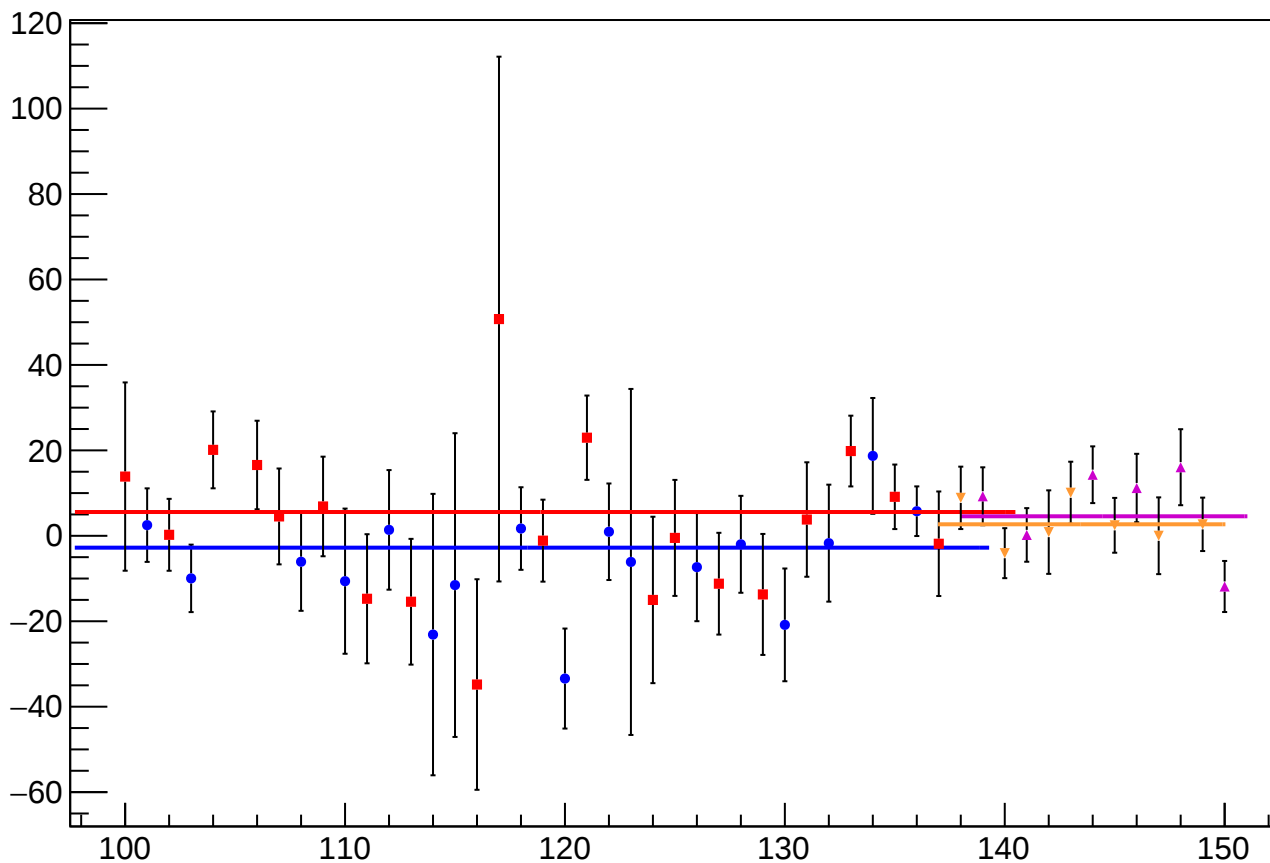
Right Out: 13256.926+/-3.577 χ^2/NDF : 487016.8/19

Left In: 8915.967+/-2.887 χ^2/NDF :169409.7/5

10003.109+/-2.156 χ^2/NDF : 1641939.9/23

10628.252+/-2.246 χ^2/NDF : 1548333.4/25

diff_bpm4ecY_mean vs Slug



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

Left Out: 2.697 ± 2.676 $\chi^2/\text{NDF}: 3.2/6$

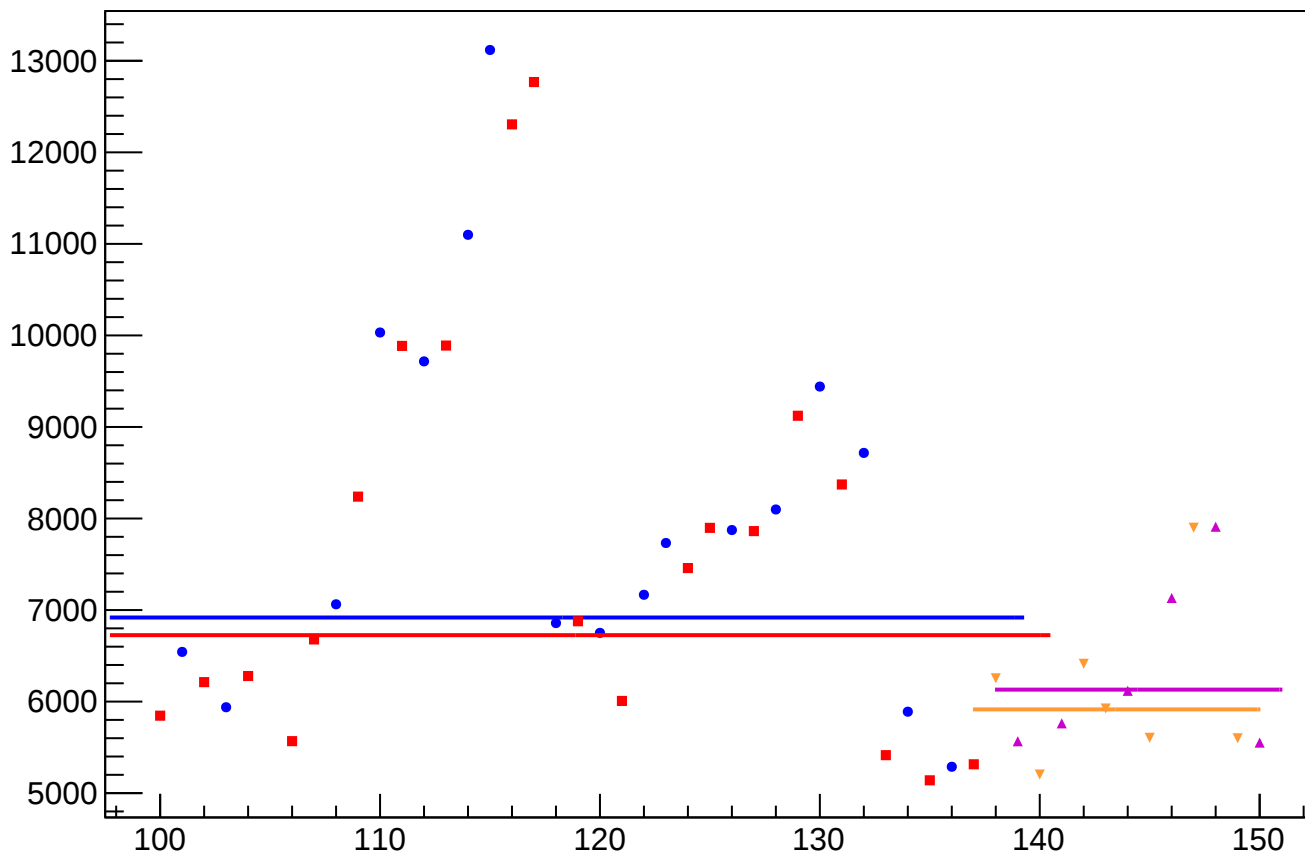
Right Out: 5.571 ± 2.585 $\chi^2/\text{NDF}: 23.7/19$

Left In: 4.570 ± 2.817 $\chi^2/\text{NDF}: 13.0/5$

0.017 ± 1.912 $\chi^2/\text{NDF}: 21.2/23$

5.113 ± 1.905 $\chi^2/\text{NDF}: 36.8/25$

diff_bpm4ecY_rms vs Slug



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

Left Out: 5914.553+/-1.892 χ^2/NDF : 146453.8/6

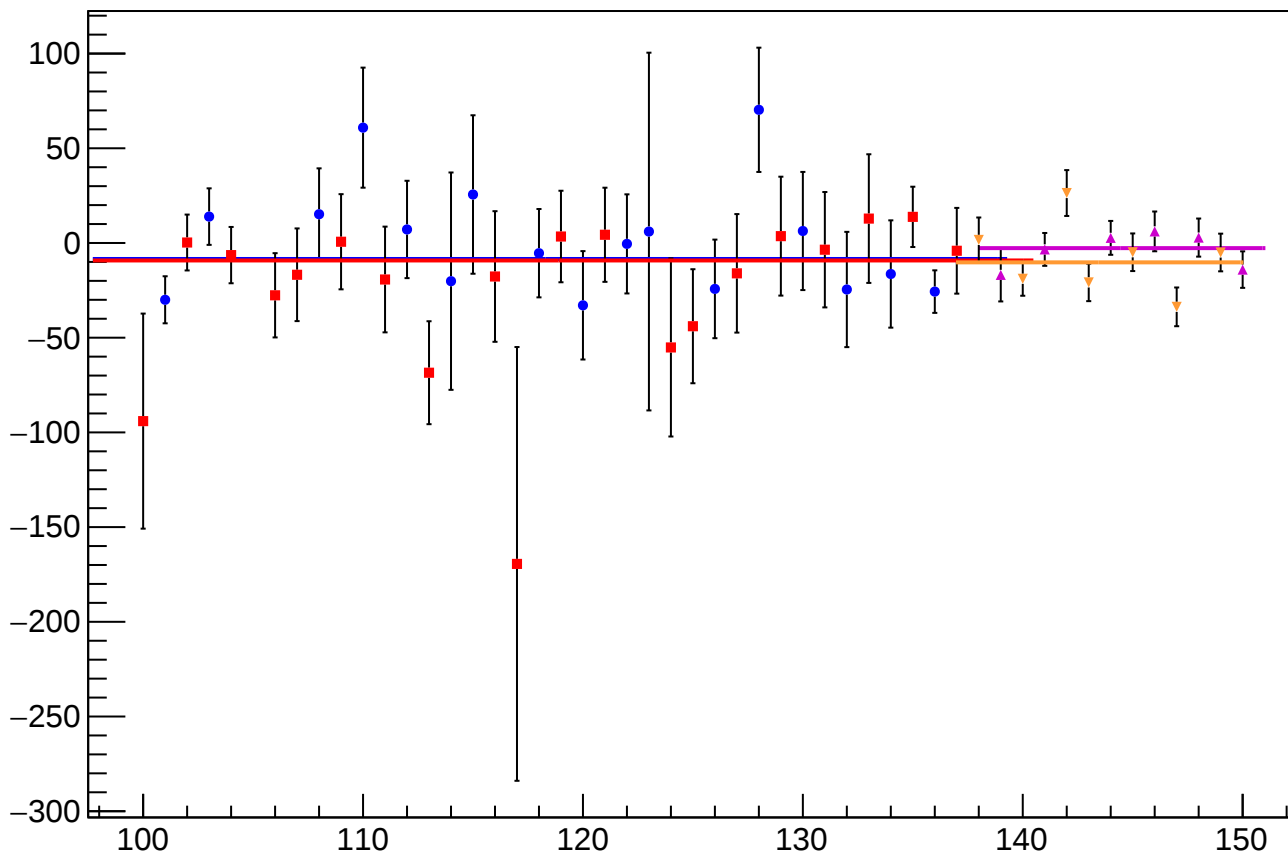
Right Out: 6725.745+/-1.828 χ^2/NDF : 675399.9/19

Left In: 6130.674+/-1.992 χ^2/NDF : 150812.5/5

6406.246+/-1.352 χ^2/NDF : 871323.0/23

6453.653+/-1.347 χ^2/NDF : 874668.1/25

diff_bpm1X_mean vs Slug



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

Left Out: -10.229 ± 3.878 $\chi^2/\text{NDF}: 18.1/6$

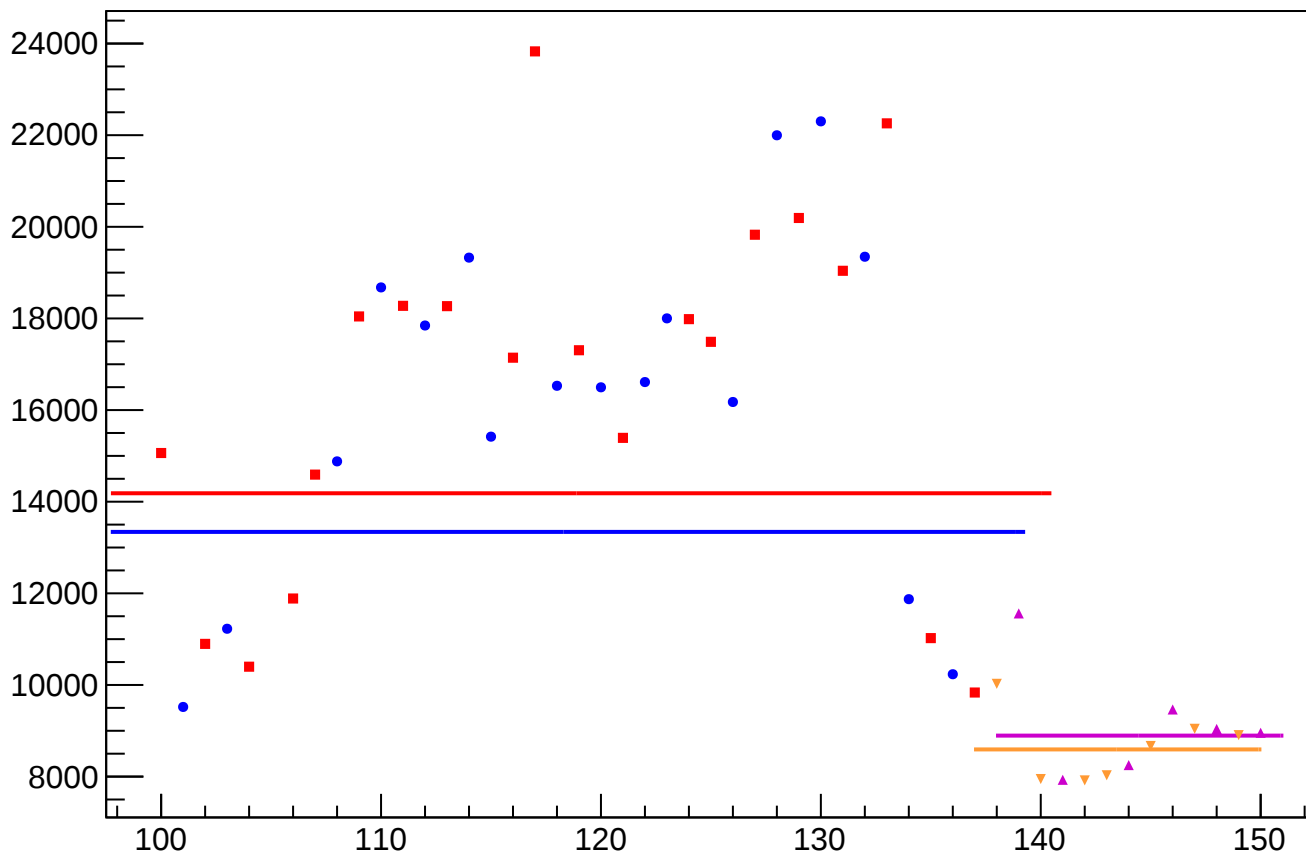
Right Out: -9.224 ± 5.502 $\chi^2/\text{NDF}: 16.2/19$

Left In: -2.714 ± 4.062 $\chi^2/\text{NDF}: 3.8/5$

-9.622 ± 3.149 $\chi^2/\text{NDF}: 40.1/23$

-5.011 ± 3.268 $\chi^2/\text{NDF}: 20.9/25$

diff_bpm1X_rms vs Slug



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

Left Out: 8593.077+/-2.742 χ^2/NDF : 58426.4/6

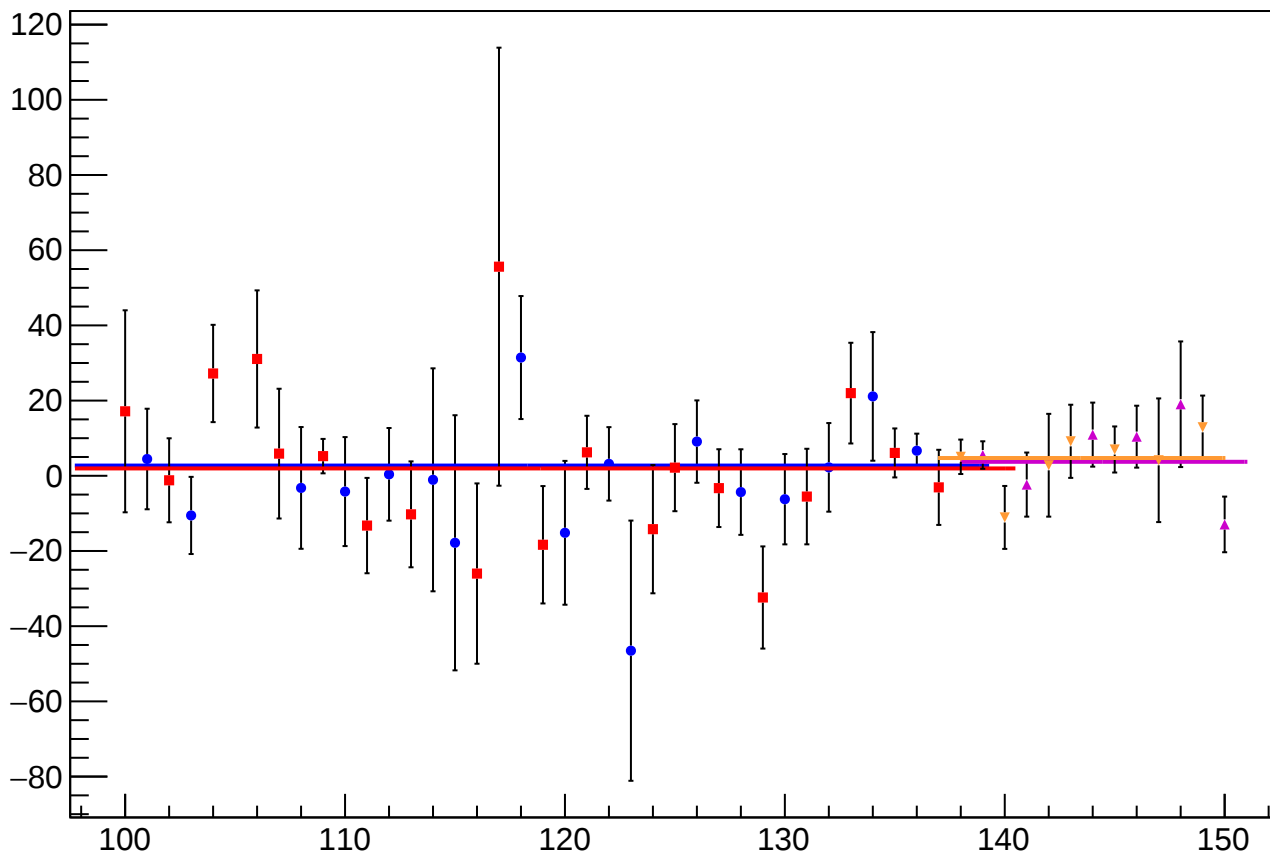
Right Out: 14184.146+/-3.891 χ^2/NDF : 946010.4/19

Left In: 8894.546+/-2.872 χ^2/NDF : 113899.0/5

10211.573+/-2.226 χ^2/NDF : 2124730.7/23

10760.453+/-2.311 χ^2/NDF : 2256391.2/25

diff_bpm1Y_mean vs Slug



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

Left Out: 4.725 ± 2.860 χ^2/NDF : 4.9/6

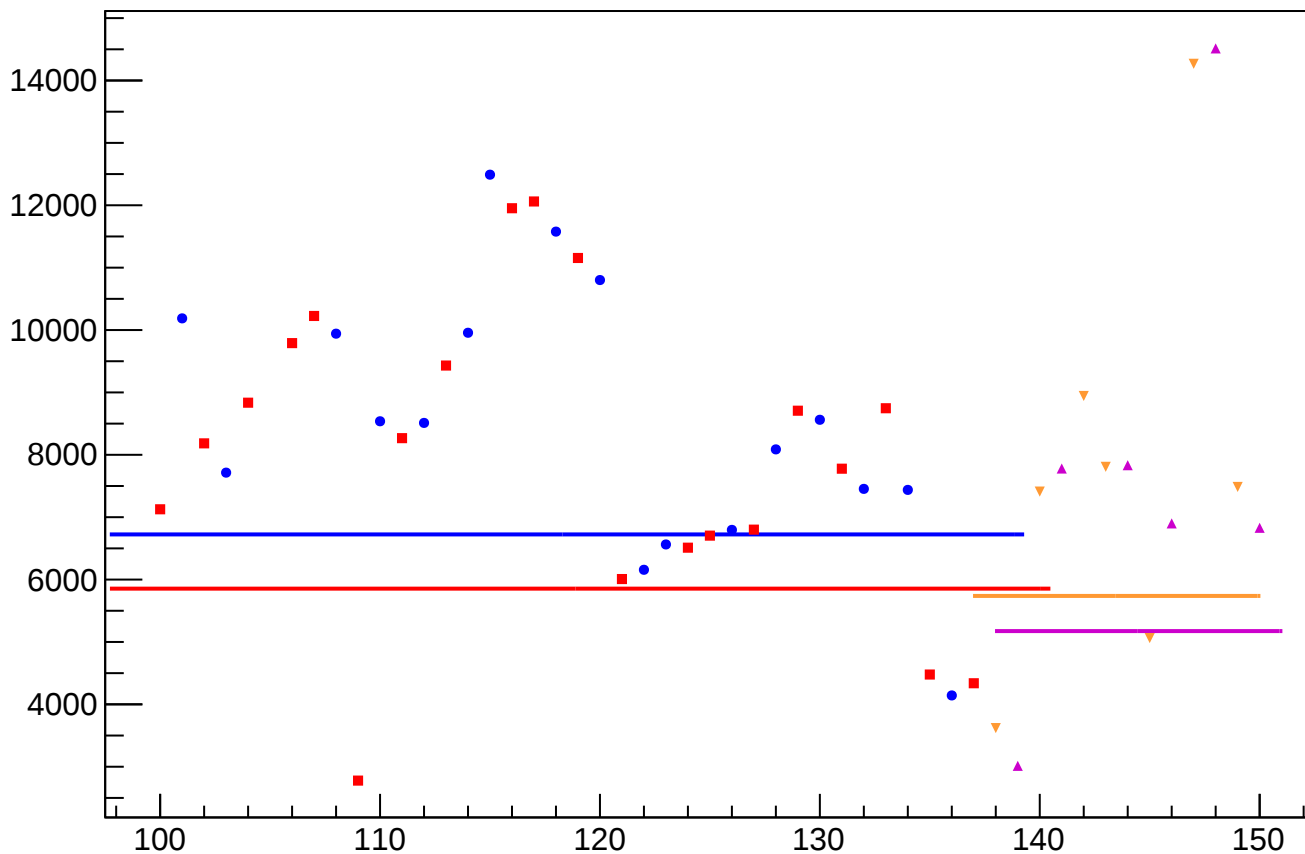
Right Out: 1.955 ± 2.437 χ^2/NDF : 24.4/19

Left In: 3.720 ± 2.682 χ^2/NDF : 8.0/5

3.683 ± 1.983 χ^2/NDF : 16.8/23

2.753 ± 1.804 χ^2/NDF : 32.6/25

diff_bpm1Y_rms vs Slug



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

Left Out: 5737.924+/-2.022 χ^2/NDF : 1356379.4/6

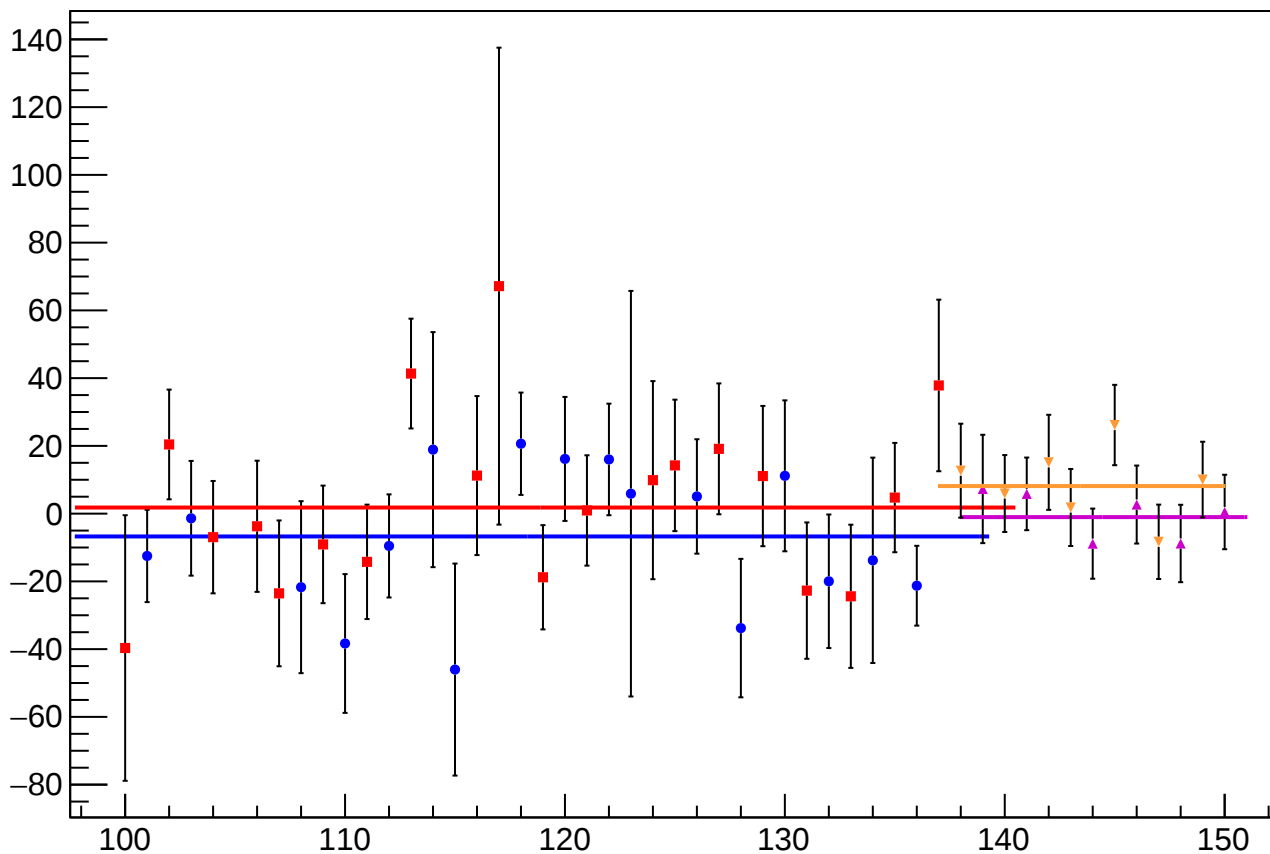
6249.825+/-1.402 χ^2/NDF : 2871873.4/23

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

5547.077+/-1.275 χ^2/NDF : 4263699.2/25

Left In: 5174.288+/-1.897 χ^2/NDF : 1893230.9/5

diff_bpm11X_mean vs Slug



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

Left Out: 8.139+/-4.509 χ^2 /NDF: 5.3/6

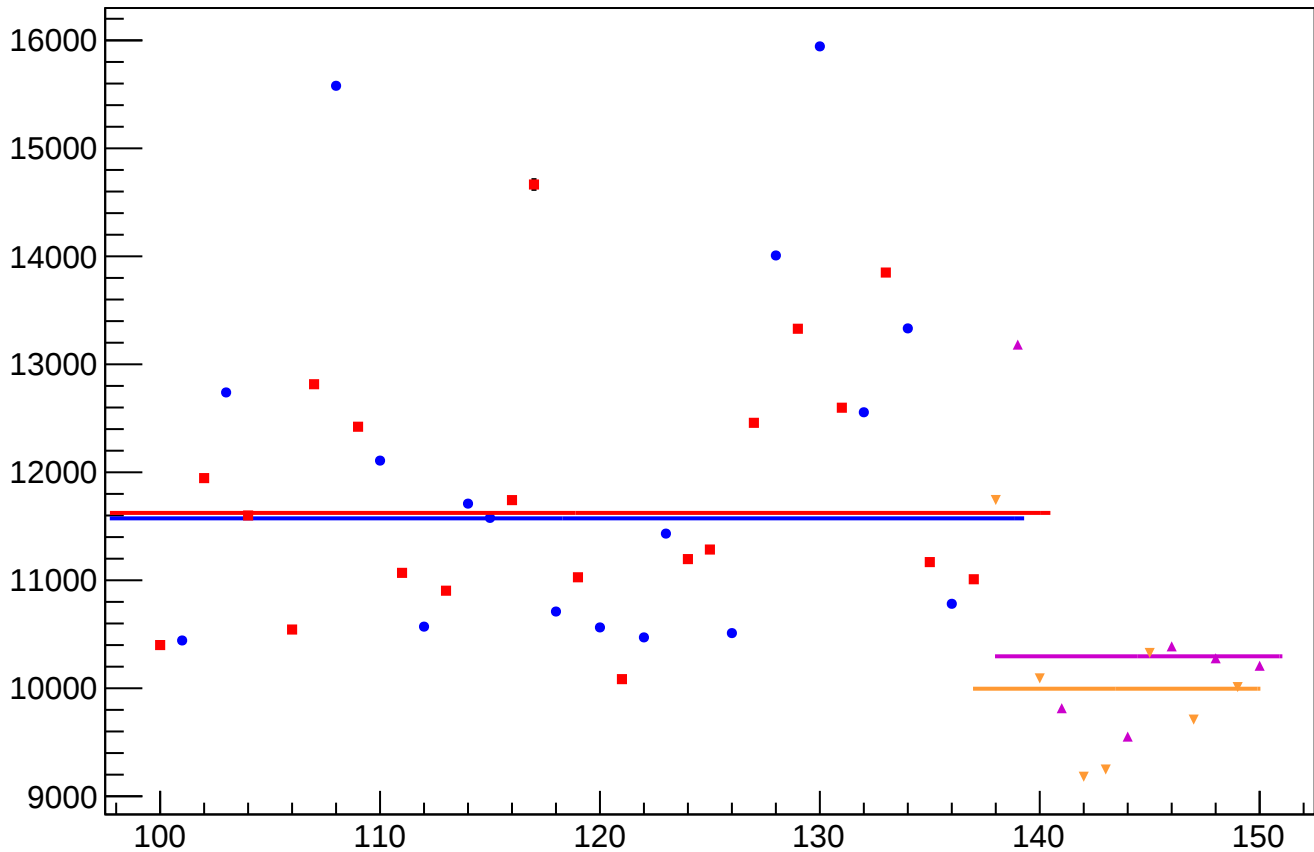
Right Out: 1.802+/-4.364 χ^2 /NDF: 20.8/19

Left In: -1.027+/-4.692 χ^2 /NDF: 1.8/5

0.707+/-3.190 χ^2 /NDF: 27.6/23

0.489+/-3.195 χ^2 /NDF: 22.9/25

diff_bpm11X_rms vs Slug



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

Left Out: 9995.956 $\pm$ 3.188 χ^2 /NDF: 50241.7/6

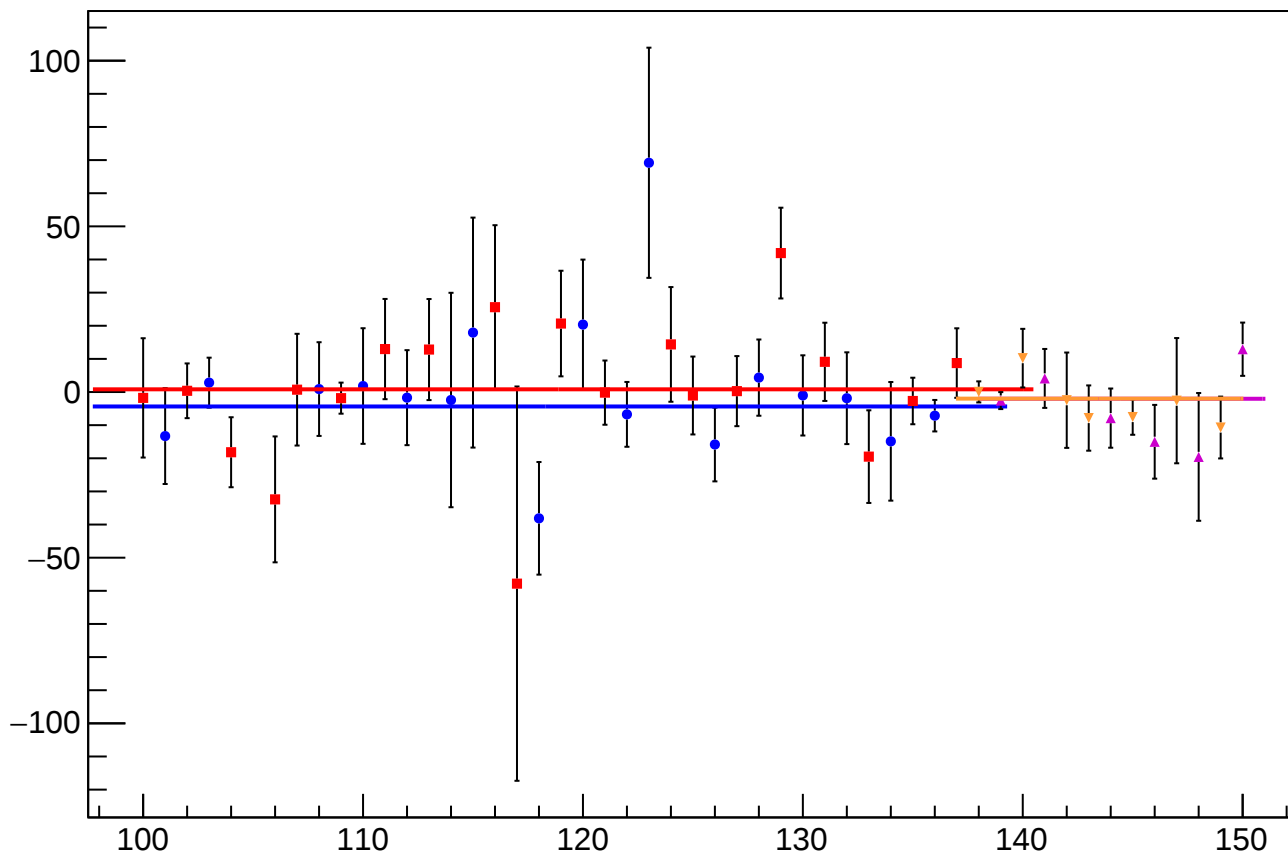
Right Out: 11623.951 $\pm$ 3.086 χ^2 /NDF: 98055.0/19

Left In: 10296.051 $\pm$ 3.318 χ^2 /NDF: 79763.2/5

10784.066 $\pm$ 2.256 χ^2 /NDF: 411270.9/23

11008.001 $\pm$ 2.259 χ^2 /NDF: 263715.9/25

diff_bpm11Y_mean vs Slug



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

Left Out: -1.997 ± 2.383 χ^2/NDF : 4.6/6

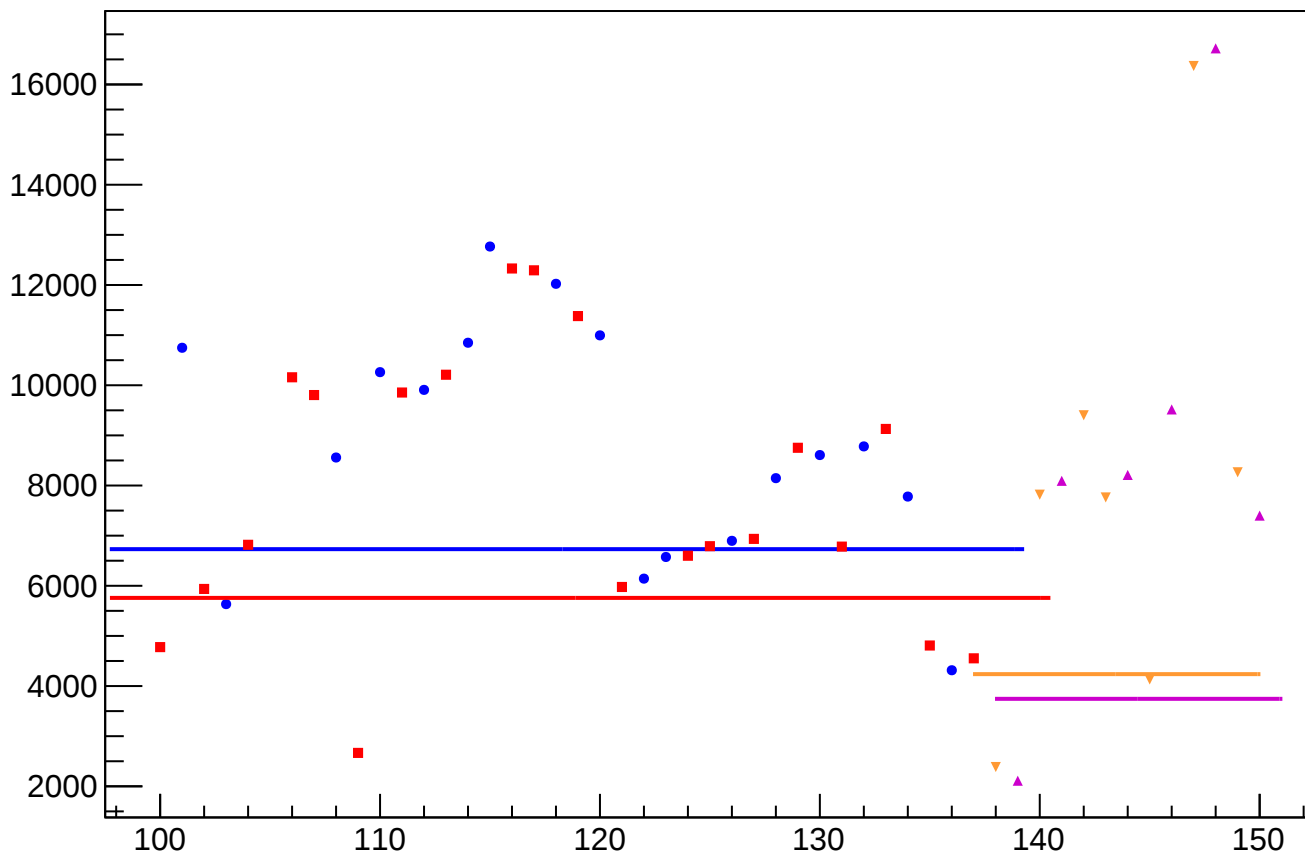
Right Out: 0.816 ± 2.424 χ^2/NDF : 24.5/19

Left In: -2.035 ± 2.215 χ^2/NDF : 6.6/5

-3.000 ± 1.808 χ^2/NDF : 19.6/23

-0.738 ± 1.635 χ^2/NDF : 31.9/25

diff_bpm11Y_rms vs Slug



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

Left Out: 4237.746+/-1.685 χ^2/NDF : 2718637.1/6

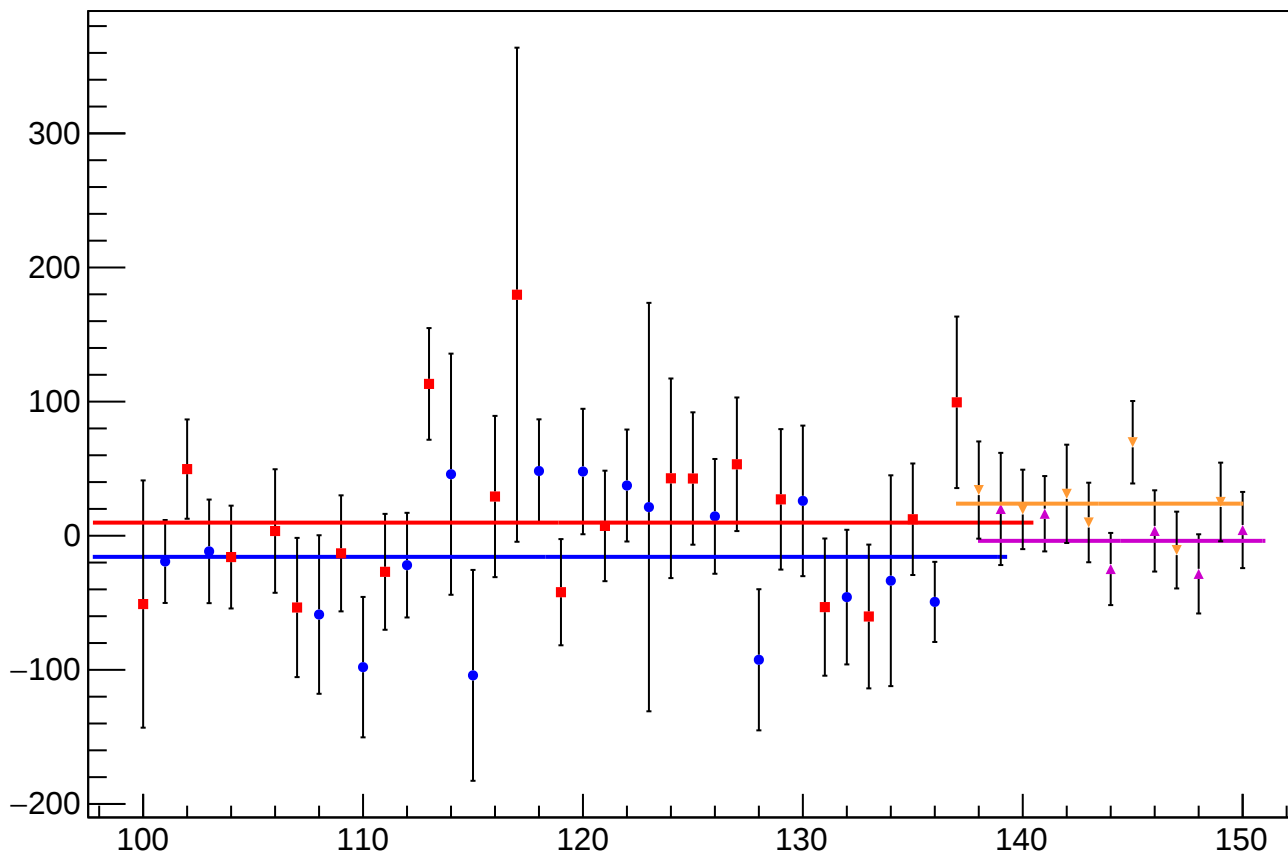
Right Out: 5758.506+/-1.714 χ^2/NDF : 2186395.0/19

Left In: 3745.105+/-1.566 χ^2/NDF : 3648778.5/5

5295.173+/-1.279 χ^2/NDF : 5092511.3/23

4661.118+/-1.156 χ^2/NDF : 6587191.4/25

diff_bpm12X_mean vs Slug



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

Left Out: 23.923 ± 11.765 χ^2/NDF : 4.0/6

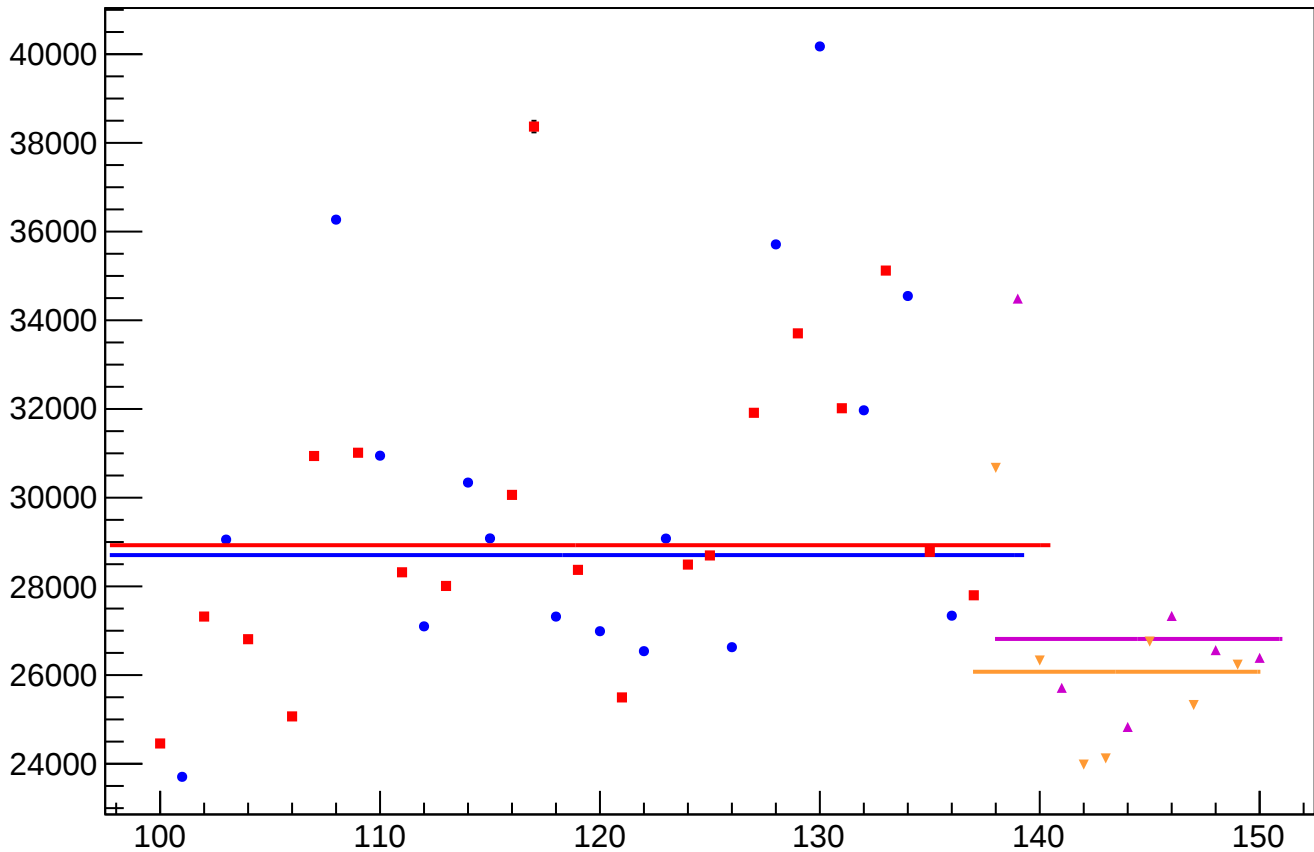
Right Out: 9.773 ± 10.870 χ^2/NDF : 20.1/19

Left In: -3.809 ± 12.221 χ^2/NDF : 2.3/5

3.124 ± 8.115 χ^2/NDF : 25.9/23

3.774 ± 8.122 χ^2/NDF : 23.1/25

diff_bpm12X_rms vs Slug



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

Left Out: 26075.190+/-8.319 χ^2/NDF : 49948.4/6

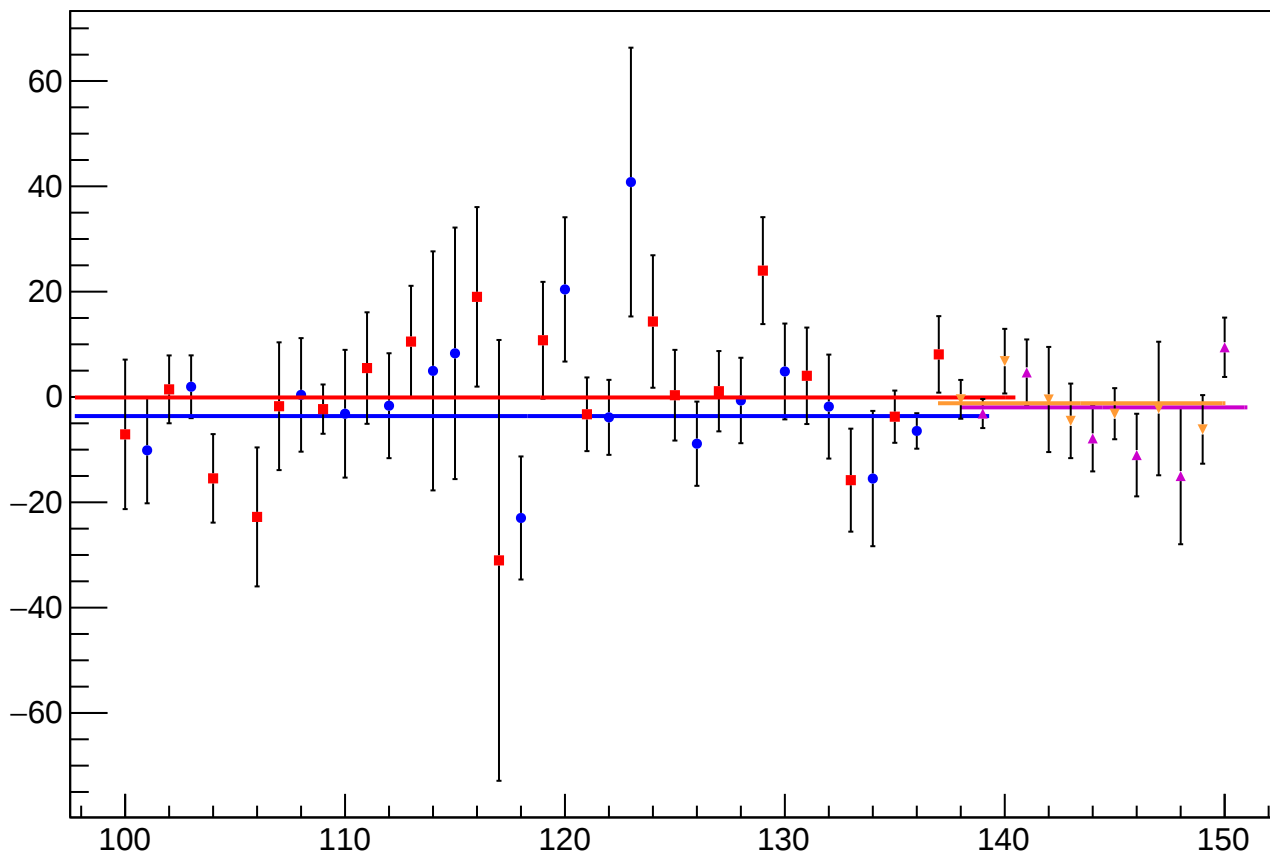
27454.196+/-5.738 χ^2/NDF : 353351.6/23

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

27994.919+/-5.743 χ^2/NDF : 232349.0/25

Left In: 26814.809+/-8.642 χ^2/NDF : 82465.3/5

diff_bpm12Y_mean vs Slug



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

Left Out: -1.191 ± 2.222 $\chi^2/\text{NDF}: 2.7/6$

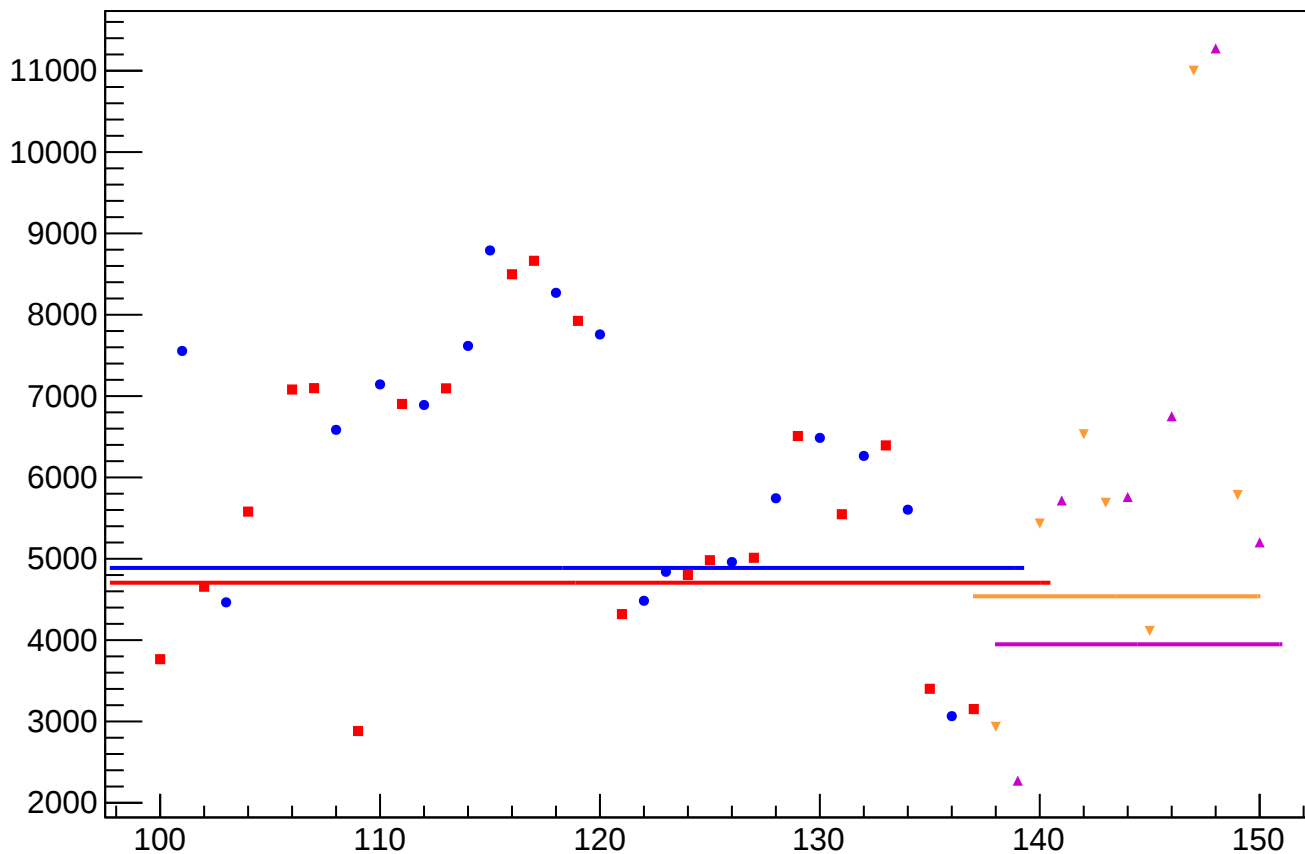
Right Out: -0.090 ± 1.888 $\chi^2/\text{NDF}: 22.6/19$

Left In: -1.973 ± 2.059 $\chi^2/\text{NDF}: 8.6/5$

-2.532 ± 1.489 $\chi^2/\text{NDF}: 17.1/23$

-0.950 ± 1.392 $\chi^2/\text{NDF}: 31.7/25$

diff_bpm12Y_rms vs Slug



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

Left Out: 4538.478+/-1.571 χ^2/NDF :1162165.1/6

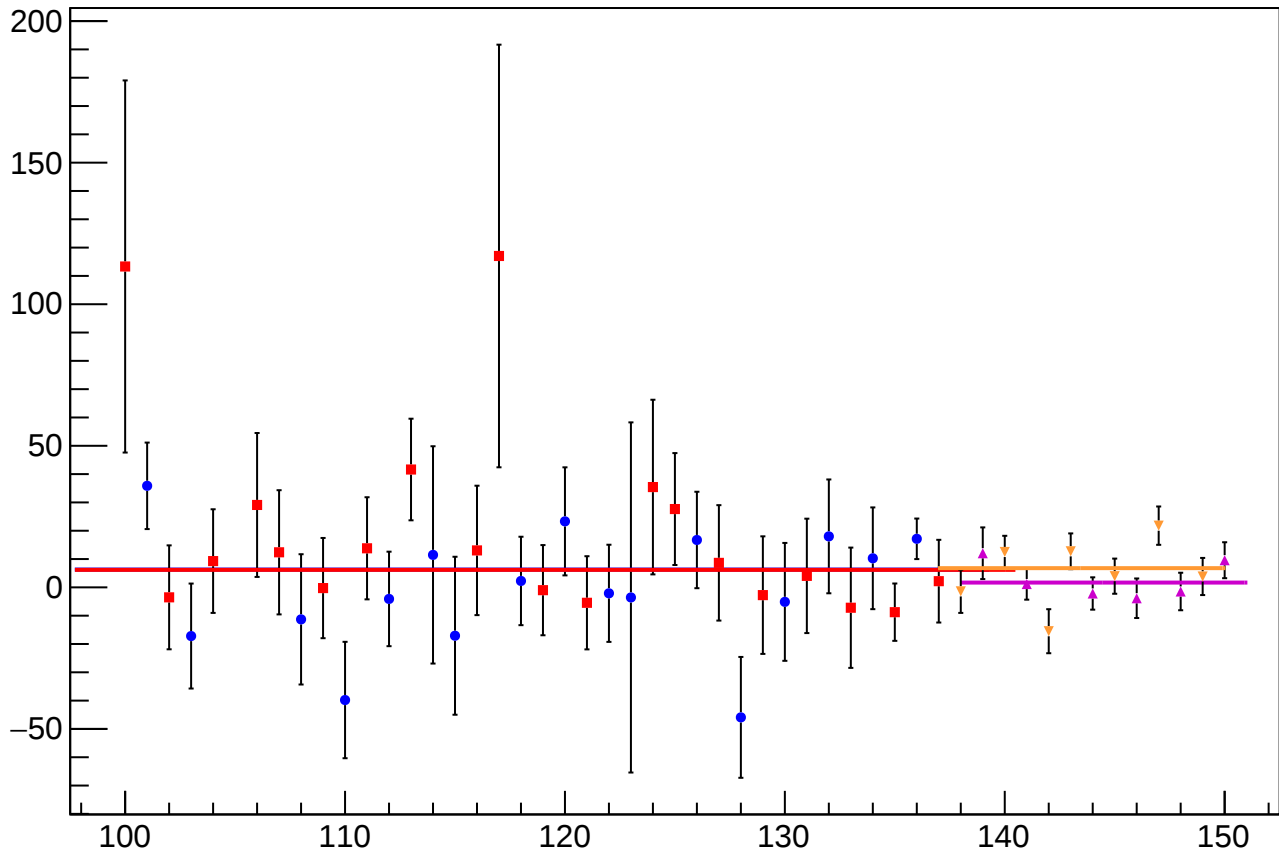
Right Out: 4705.797+/-1.335 χ^2/NDF : 1331043.3/19

Left In: 3948.685+/-1.456 χ^2/NDF :2057291.7/5

4730.795+/-1.053 χ^2/NDF : 2598648.8/23

4360.058+/-0.984 χ^2/NDF : 3535200.5/25

diff_bpm16X_mean vs Slug



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

Left Out: 6.784 ± 2.496 $\chi^2/\text{NDF}: 16.6/6$

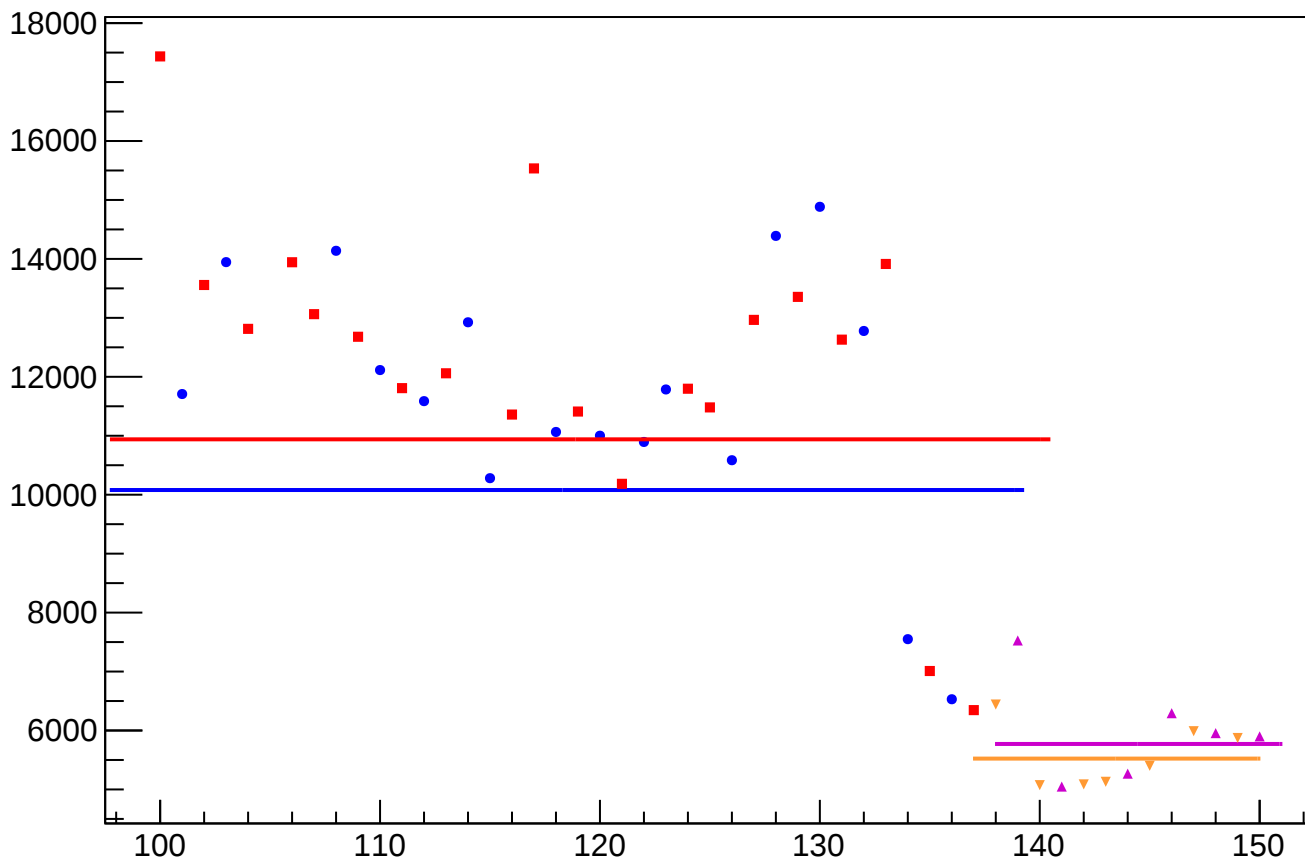
Right Out: 6.182 ± 4.212 $\chi^2/\text{NDF}: 16.0/19$

Left In: 1.689 ± 2.639 $\chi^2/\text{NDF}: 4.2/5$

6.647 ± 2.127 $\chi^2/\text{NDF}: 39.1/23$

2.955 ± 2.236 $\chi^2/\text{NDF}: 21.0/25$

diff_bpm16X_rms vs Slug



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

Left Out: 5523.367 ± 1.765 χ^2/NDF : 71420.3/6

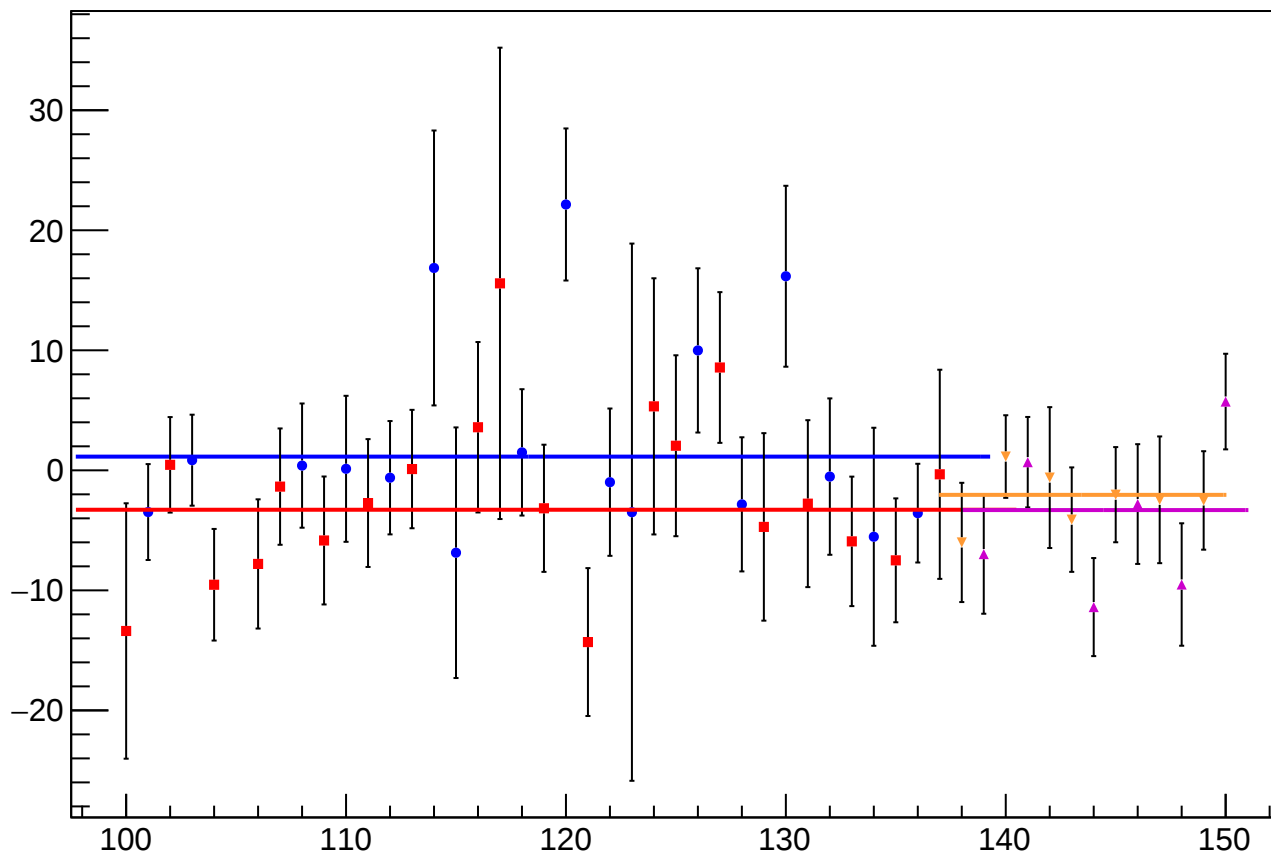
Right Out: 10939.227 ± 2.979 χ^2/NDF : 776055.3/19

Left In: 5771.553 ± 1.866 χ^2/NDF : 137408.0/5

6771.382 ± 1.504 χ^2/NDF : 2891100.9/23

7227.989 ± 1.581 χ^2/NDF : 3075150.2/25

diff_bpm16Y_mean vs Slug



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

Left Out: -2.043 ± 1.653 χ^2/NDF : 1.8/6

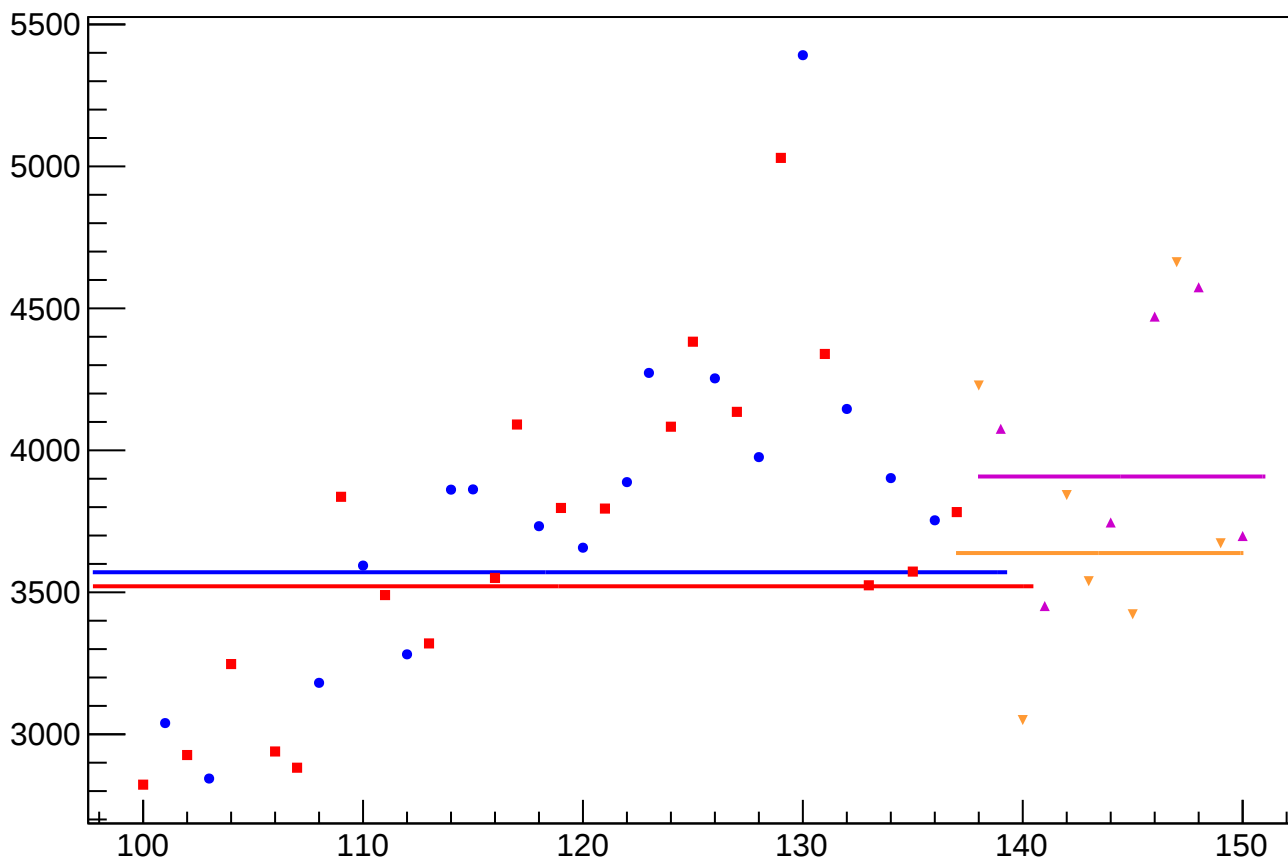
Right Out: -3.284 ± 1.330 χ^2/NDF : 16.0/19

Left In: -3.311 ± 1.789 χ^2/NDF : 12.2/5

-0.183 ± 1.066 χ^2/NDF : 27.2/23

-3.294 ± 1.067 χ^2/NDF : 28.2/25

diff_bpm16Y_rms vs Slug



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

Left Out: 3638.316 $\pm$ 1.169 χ^2 /NDF:171449.4/6

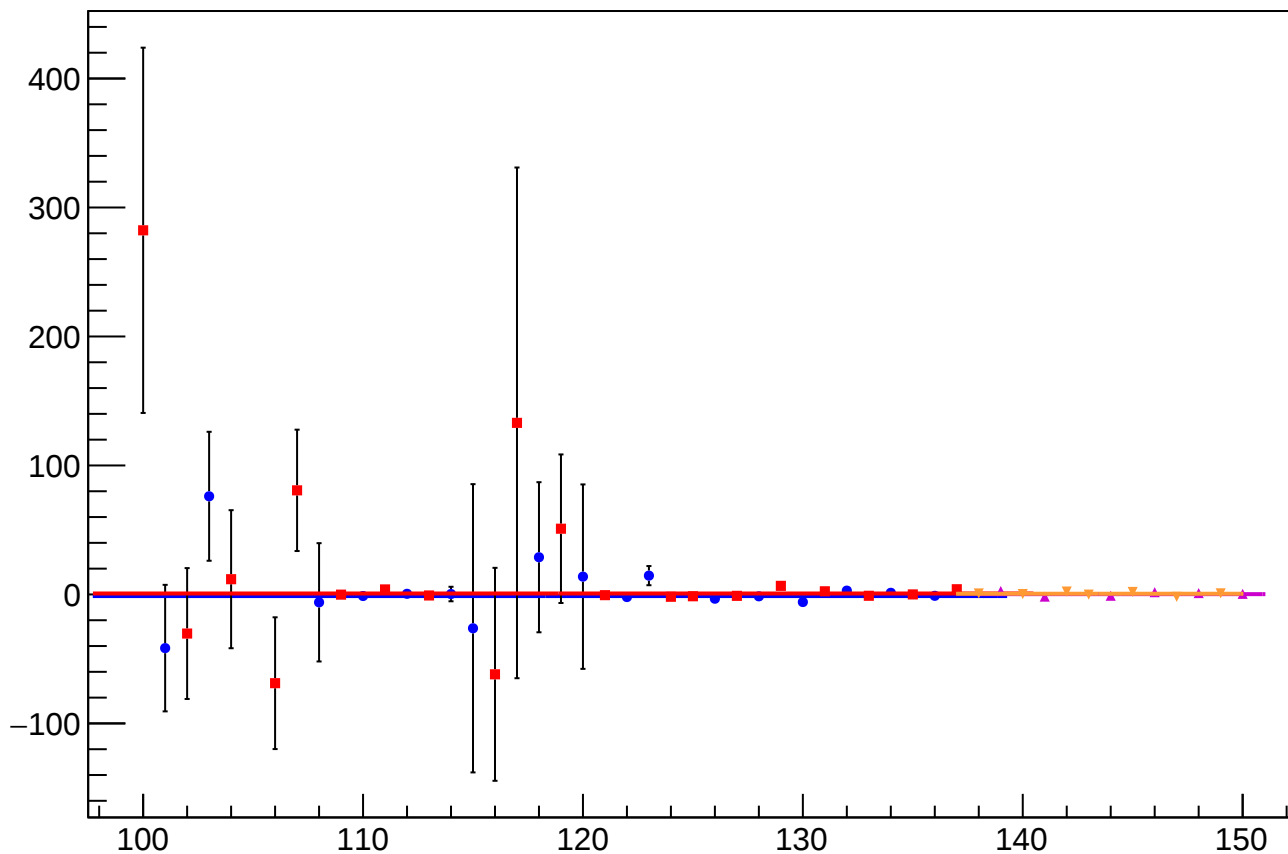
Right Out: 3521.247 $\pm$ 0.941 χ^2 /NDF: 294919.2/19

Left In: 3907.869 $\pm$ 1.265 χ^2 /NDF:99934.1/5

3598.825 $\pm$ 0.754 χ^2 /NDF: 482970.6/23

3658.909 $\pm$ 0.755 χ^2 /NDF: 455021.7/25

diff_bpm1p02bX_mean vs Slug



Right In: -1.261 ± 0.748 $\chi^2/\text{NDF}: 16.3/16$

Left Out: 0.543 ± 0.473 $\chi^2/\text{NDF}: 6.5/6$

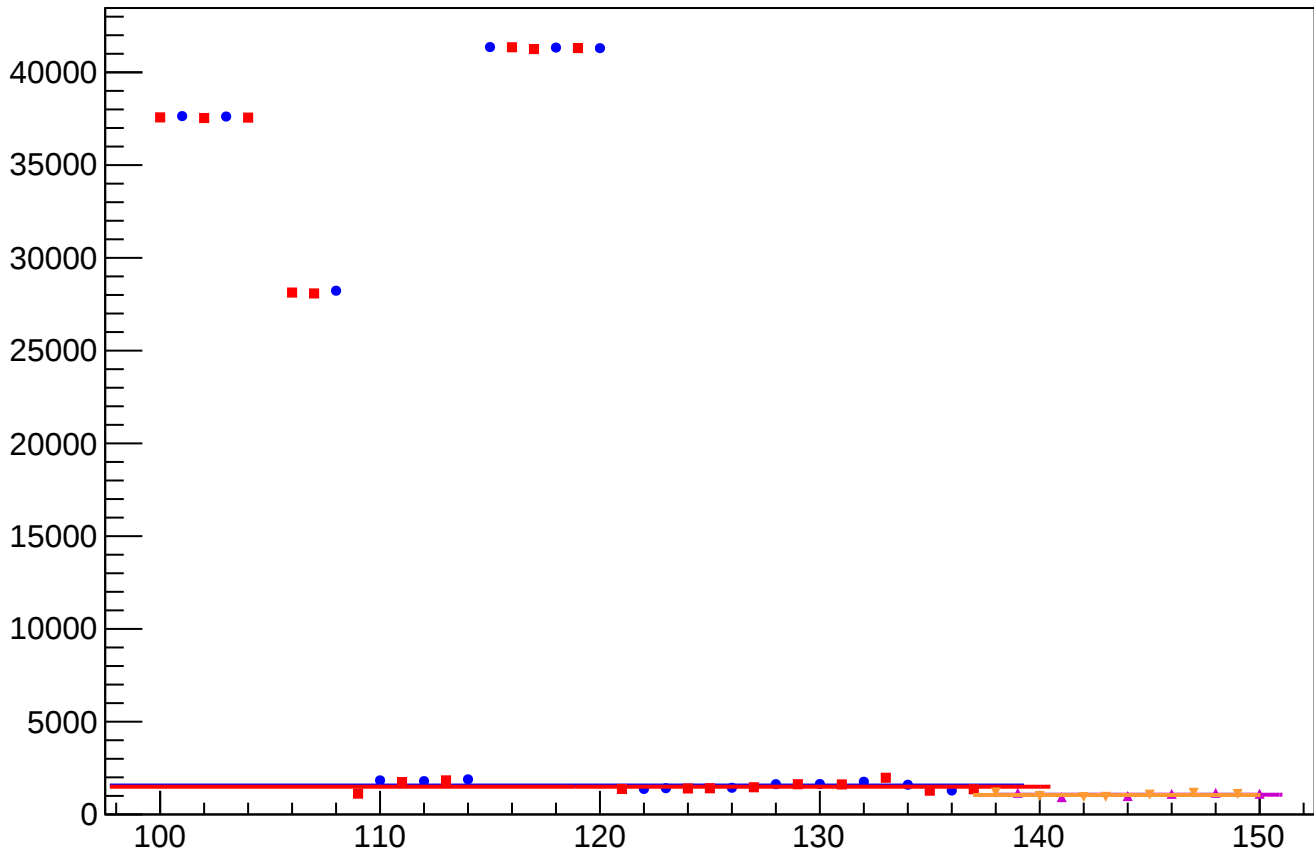
Right Out: 0.735 ± 0.710 $\chi^2/\text{NDF}: 22.5/19$

Left In: 0.222 ± 0.485 $\chi^2/\text{NDF}: 9.7/5$

0.027 ± 0.400 $\chi^2/\text{NDF}: 27.0/23$

0.385 ± 0.401 $\chi^2/\text{NDF}: 32.6/25$

diff_bpm1p02bX_rms vs Slug



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

Left Out: 1049.373+/-0.335 χ^2/NDF : 72139.7/6

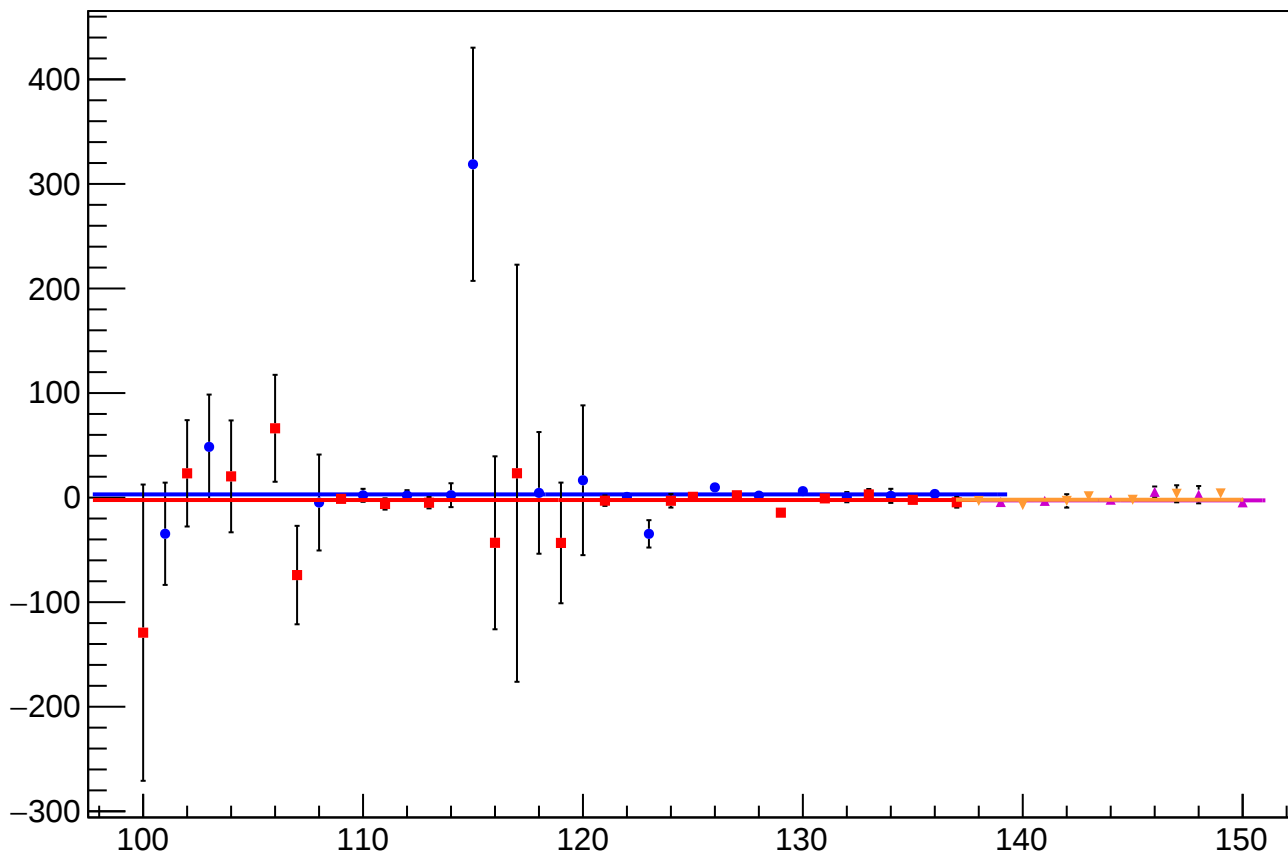
Right Out: 1495.131+/-0.502 χ^2/NDF : 4973587.9/19

Left In: 1063.601+/-0.343 χ^2/NDF : 70968.8/5

1195.189+/-0.283 χ^2/NDF : 5488779.7/23

1200.844+/-0.283 χ^2/NDF : 5547990.9/25

diff_bpm1p02bY_mean vs Slug



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

Left Out: -2.036+/-1.454 χ^2/NDF : 4.8/6

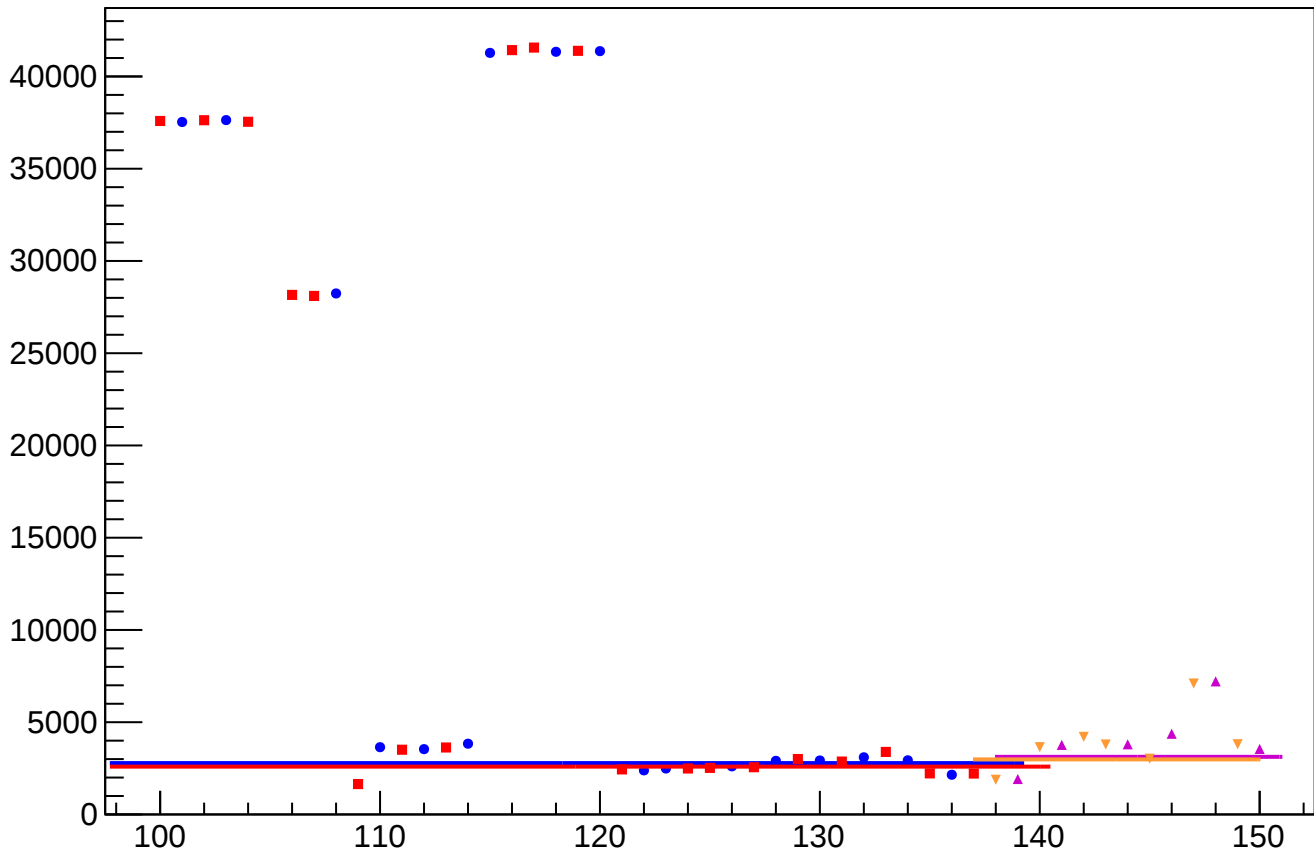
Right Out: -2.305+/-1.235 χ^2/NDF : 16.9/19

Left In: -2.636+/-1.548 χ^2/NDF : 3.7/5

0.760+/-0.979 χ^2/NDF : 33.5/23

-2.433+/-0.965 χ^2/NDF : 20.7/25

diff_bpm1p02bY_rms vs Slug



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

Left Out: 2983.418+/-1.028 χ^2/NDF :1240426.7/6

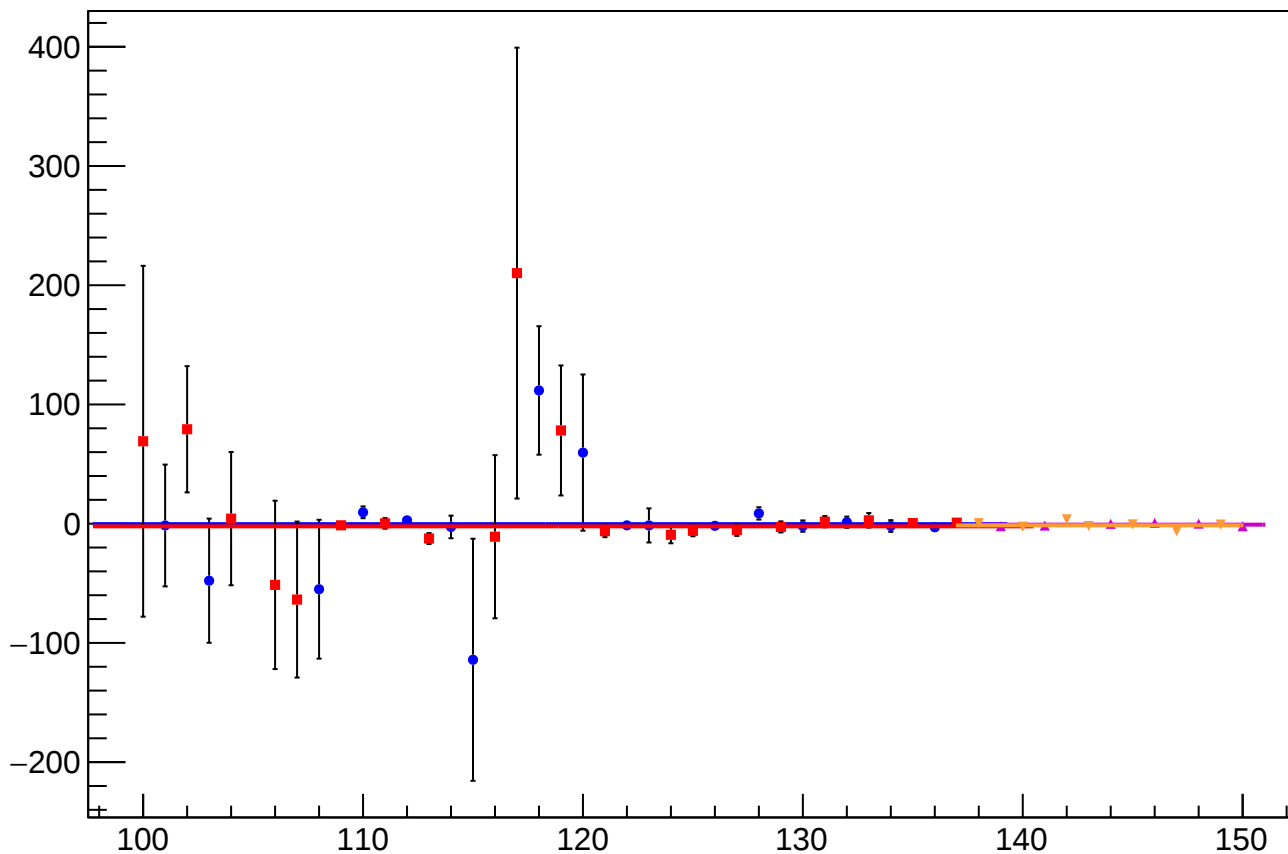
Right Out: 2592.654+/-0.873 χ^2/NDF : 4923077.9/19

Left In: 3123.220+/-1.095 χ^2/NDF :1253521.2/5

2874.333+/-0.692 χ^2/NDF : 5838431.4/23

2798.851+/-0.683 χ^2/NDF : 6320169.9/25

diff_bpm1p03aX_mean vs Slug



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

Left Out: -1.383+/-0.711 χ^2 /NDF:13.3/6

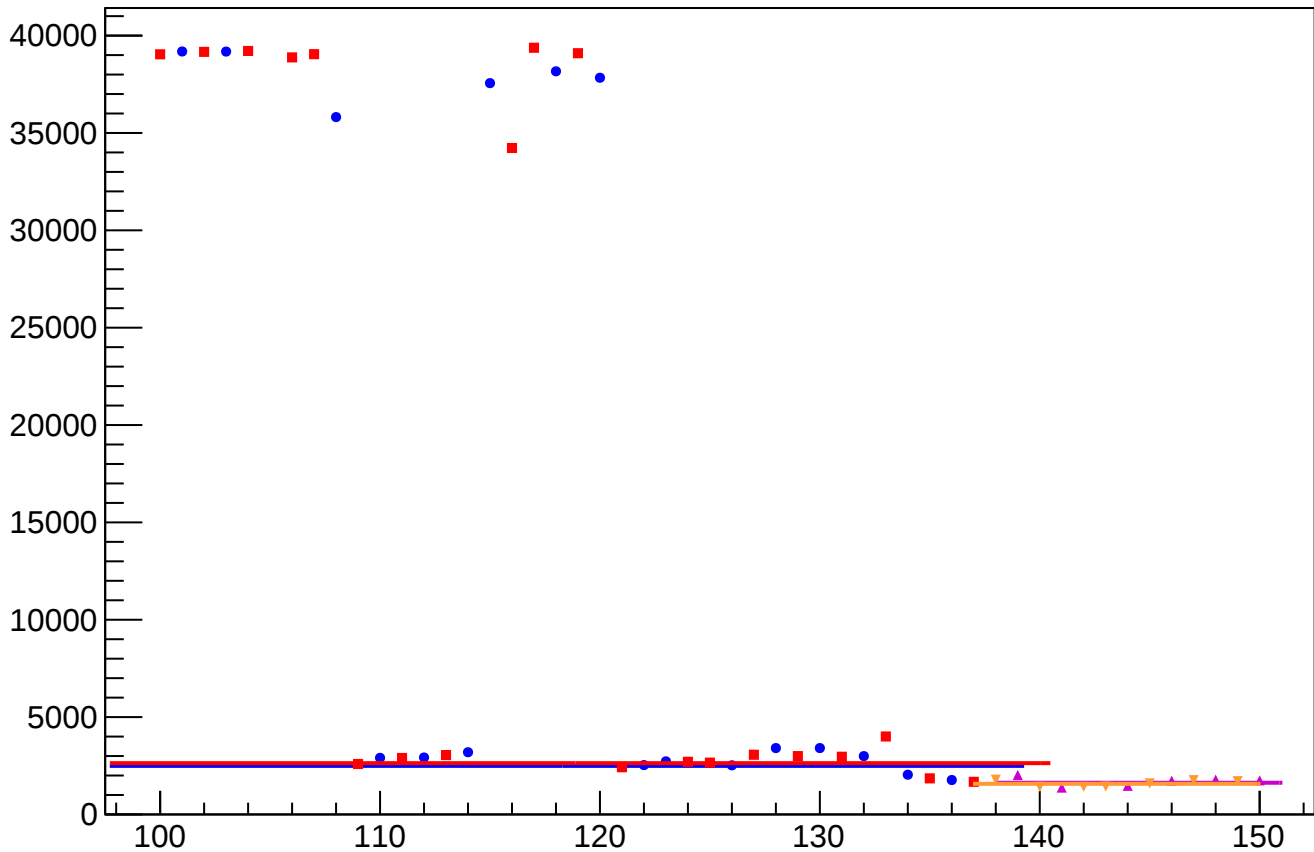
Right Out: -2.235+/-1.246 χ^2 /NDF: 18.7/19

Left In: -0.813+/-0.746 χ^2 /NDF:2.0/5

-1.134+/-0.614 χ^2 /NDF: 32.0/23

-1.188+/-0.640 χ^2 /NDF: 21.7/25

diff_bpm1p03aX_rms vs Slug



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

Left Out: 1573.563+/-0.503 χ^2/NDF : 89799.6/6

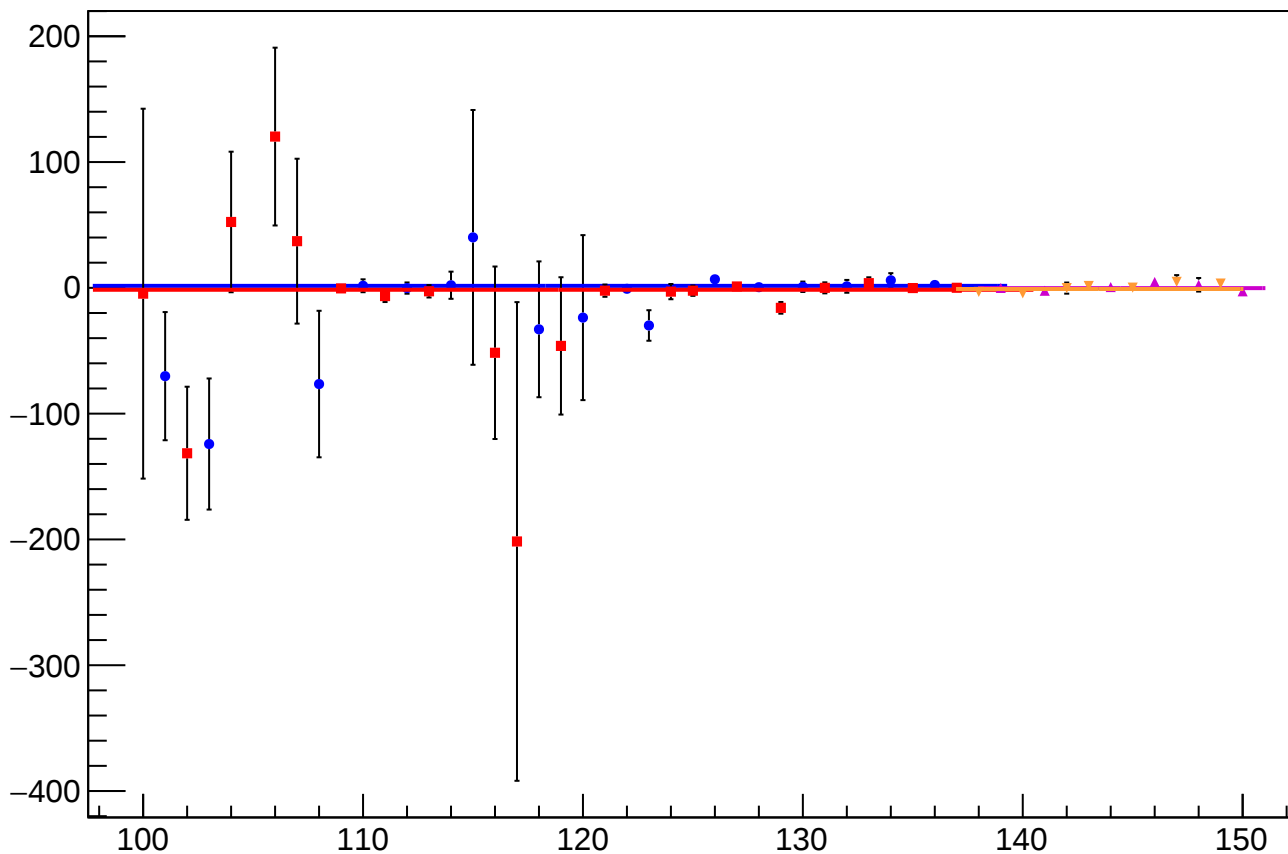
Right Out: 2634.840+/-0.881 χ^2/NDF : 4936039.0/19

Left In: 1628.751+/-0.527 χ^2/NDF : 154782.1/5

1807.859+/-0.434 χ^2/NDF : 5827266.0/23

1894.250+/-0.453 χ^2/NDF : 6050843.5/25

diff_bpm1p03aY_mean vs Slug



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

Left Out: -0.906+/-0.995 χ^2/NDF : 7.9/6

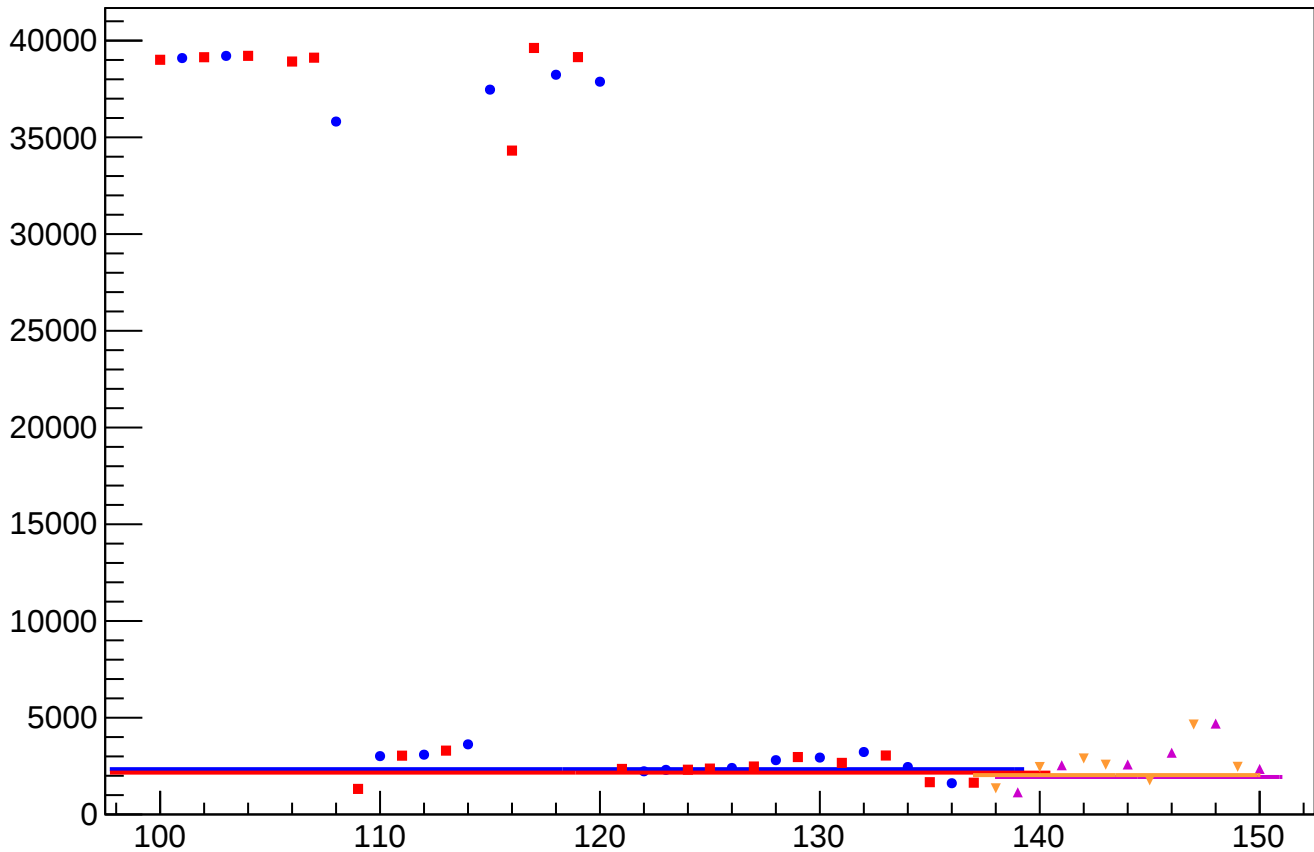
Right Out: -1.530+/-1.062 χ^2/NDF : 26.1/19

Left In: -0.230+/-0.983 χ^2/NDF : 3.7/5

0.164+/-0.750 χ^2/NDF : 30.9/23

-0.830+/-0.722 χ^2/NDF : 30.6/25

diff_bpm1p03aY_rms vs Slug



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

Left Out: 2034.461+/-0.703 χ^2/NDF : 1061048.8/6

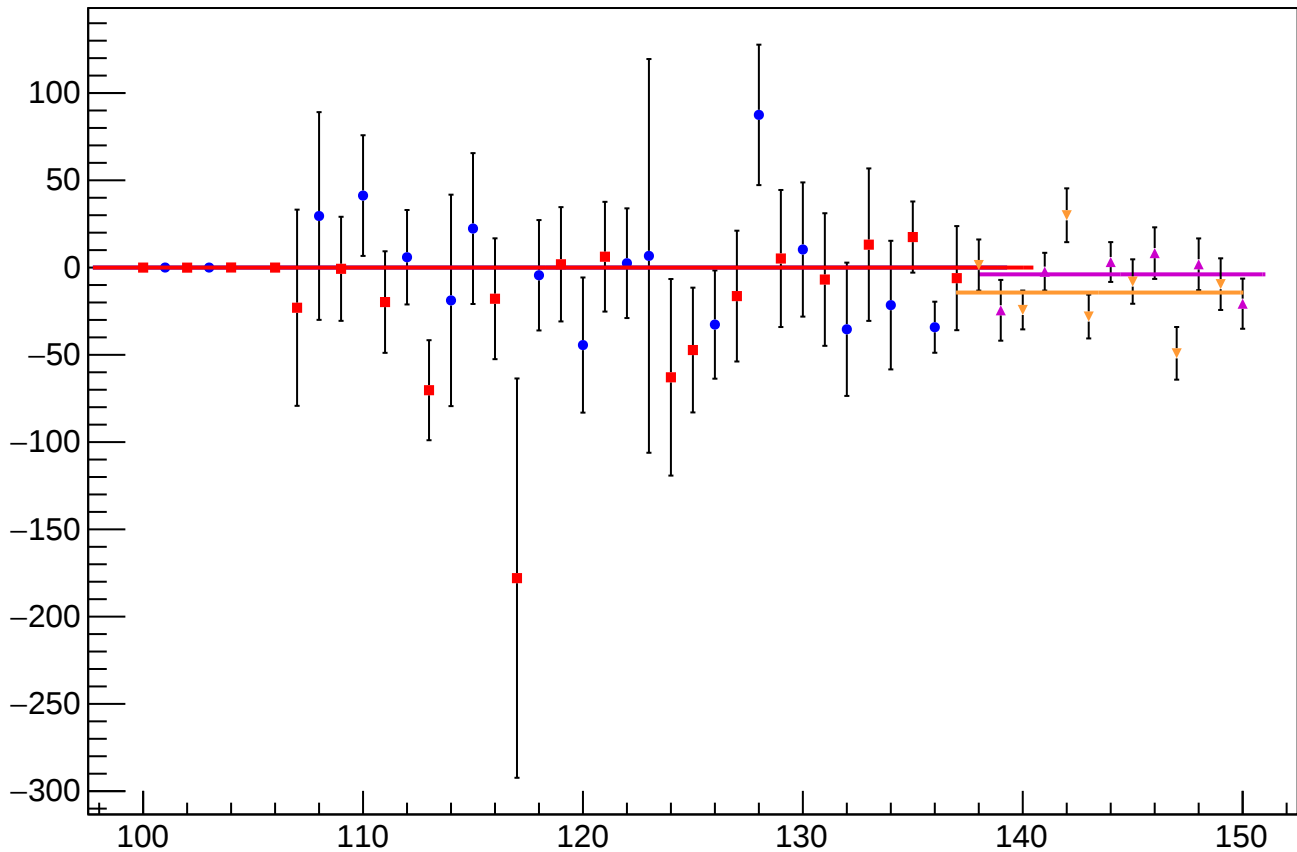
Right Out: 2162.329+/-0.751 χ^2/NDF : 5376569.5/19

Left In: 1937.100+/-0.695 χ^2/NDF : 1659896.6/5

2166.654+/-0.531 χ^2/NDF : 6149830.7/23

2041.067+/-0.510 χ^2/NDF : 7084886.1/25

diff_cav4bX_mean vs Slug



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

Left Out: -14.313 ± 5.102 χ^2/NDF : 17.1/6

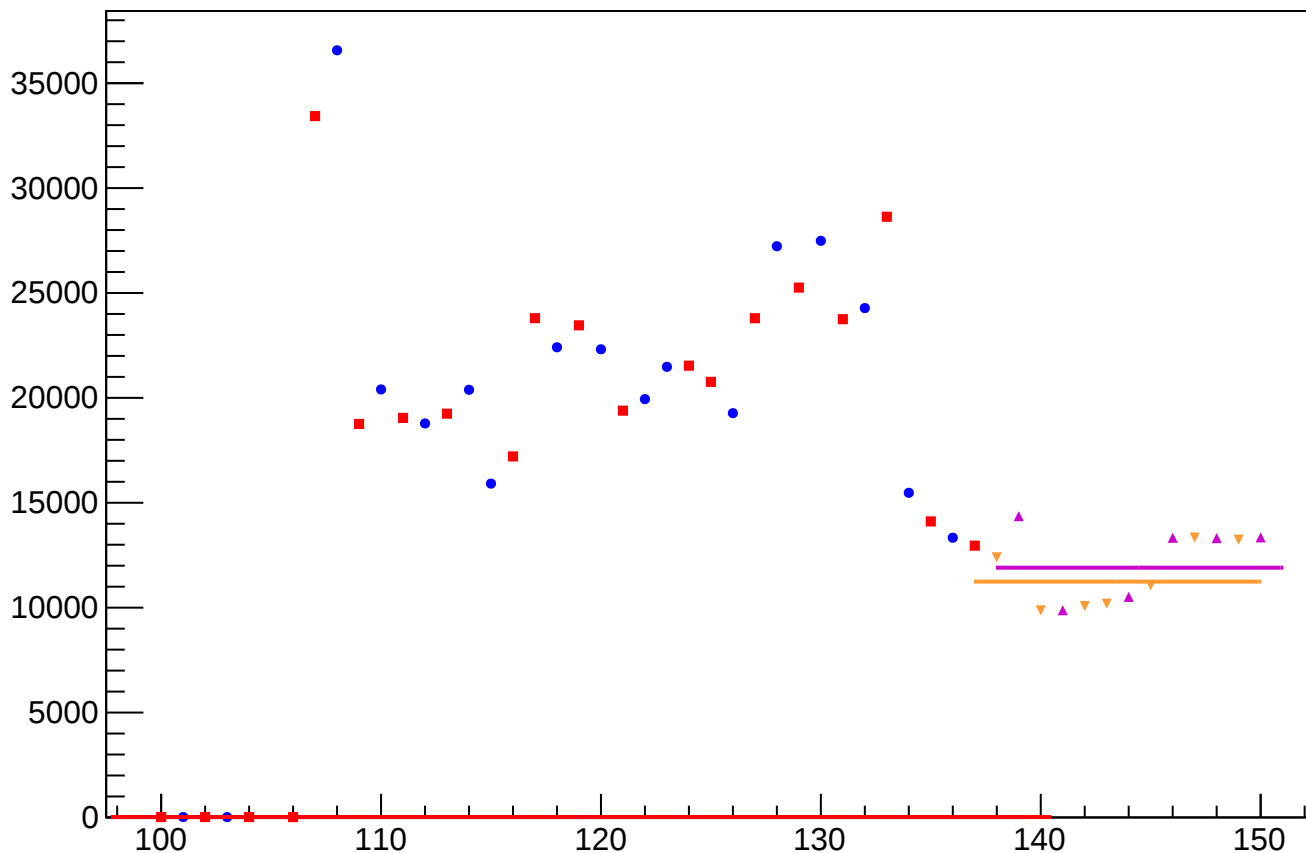
Right Out: 0.003 ± 0.016 χ^2/NDF : 18.3/19

Left In: -3.884 ± 5.462 χ^2/NDF : 4.0/5

0.013 ± 0.017 χ^2/NDF : 41.1/23

0.003 ± 0.016 χ^2/NDF : 22.8/25

diff_cav4bX_rms vs Slug



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

Left Out: 11241.316+/-3.607 χ^2/NDF :143998.3/6

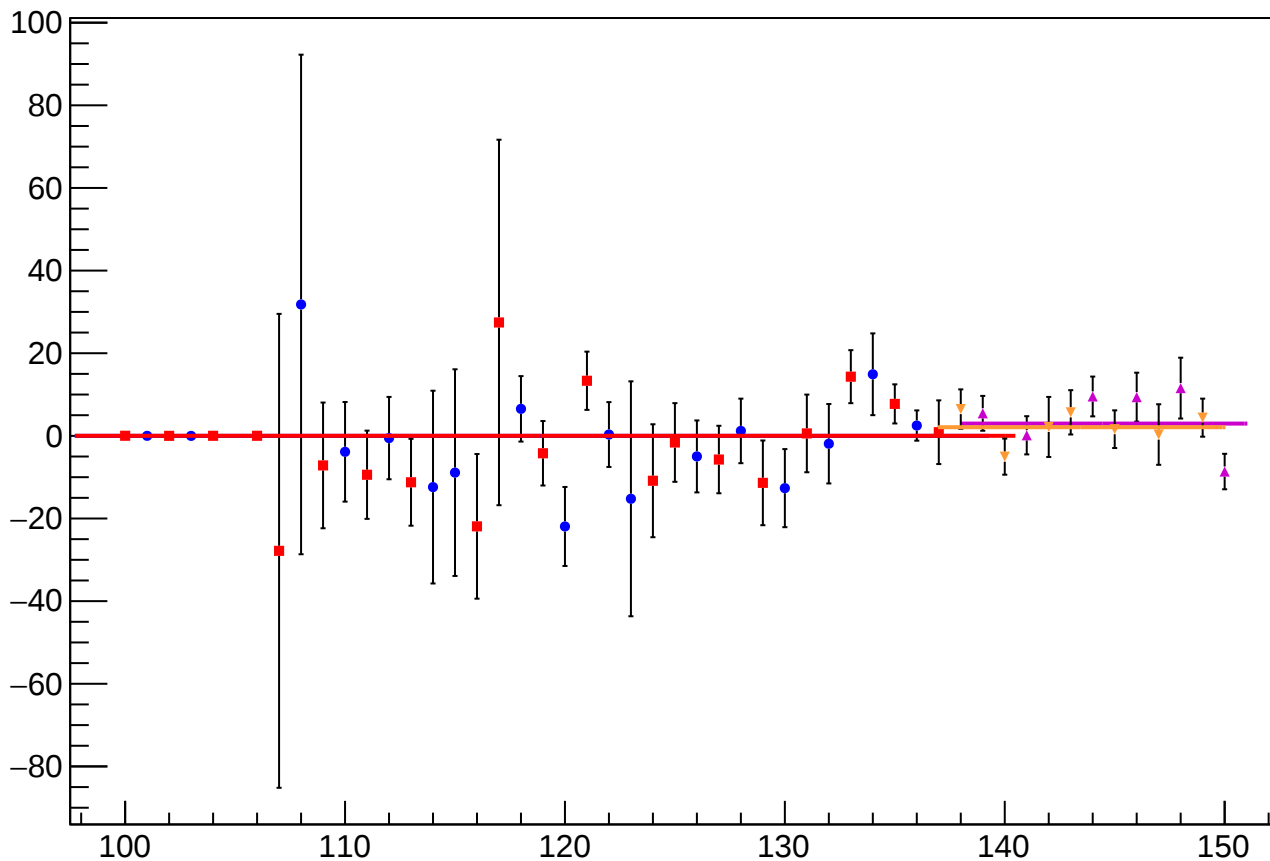
Right Out: 18.312+/-0.011 χ^2/NDF : 11197081.8/19

Left In: 11906.117+/-3.862 χ^2/NDF :196808.4/5

18.771+/-0.012 χ^2/NDF : 20806472.7/23

18.415+/-0.011 χ^2/NDF : 20868214.8/25

diff_cav4bY_mean vs Slug



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

Left Out: 2.093 $\pm$ 1.947 χ^2 /NDF:4.3/6

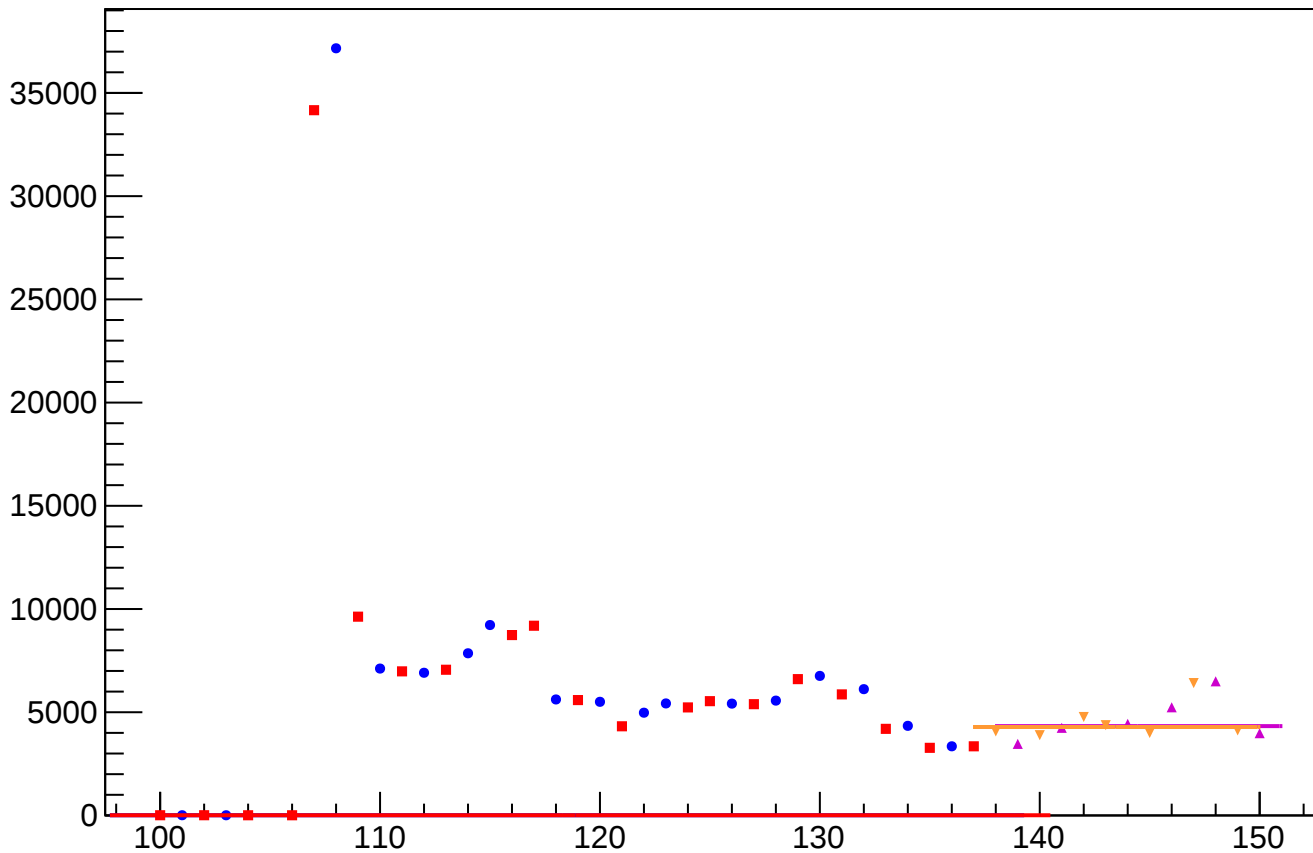
Right Out: 0.014 $\pm$ 0.009 χ^2 /NDF: 19.0/19

Left In: 2.973 $\pm$ 2.011 χ^2 /NDF:12.4/5

0.001 $\pm$ 0.009 χ^2 /NDF: 18.5/23

0.014 $\pm$ 0.009 χ^2 /NDF: 33.5/25

diff_cav4bY_rms vs Slug



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

Left Out: 4284.719+/-1.377 χ^2/NDF : 209228.6/6

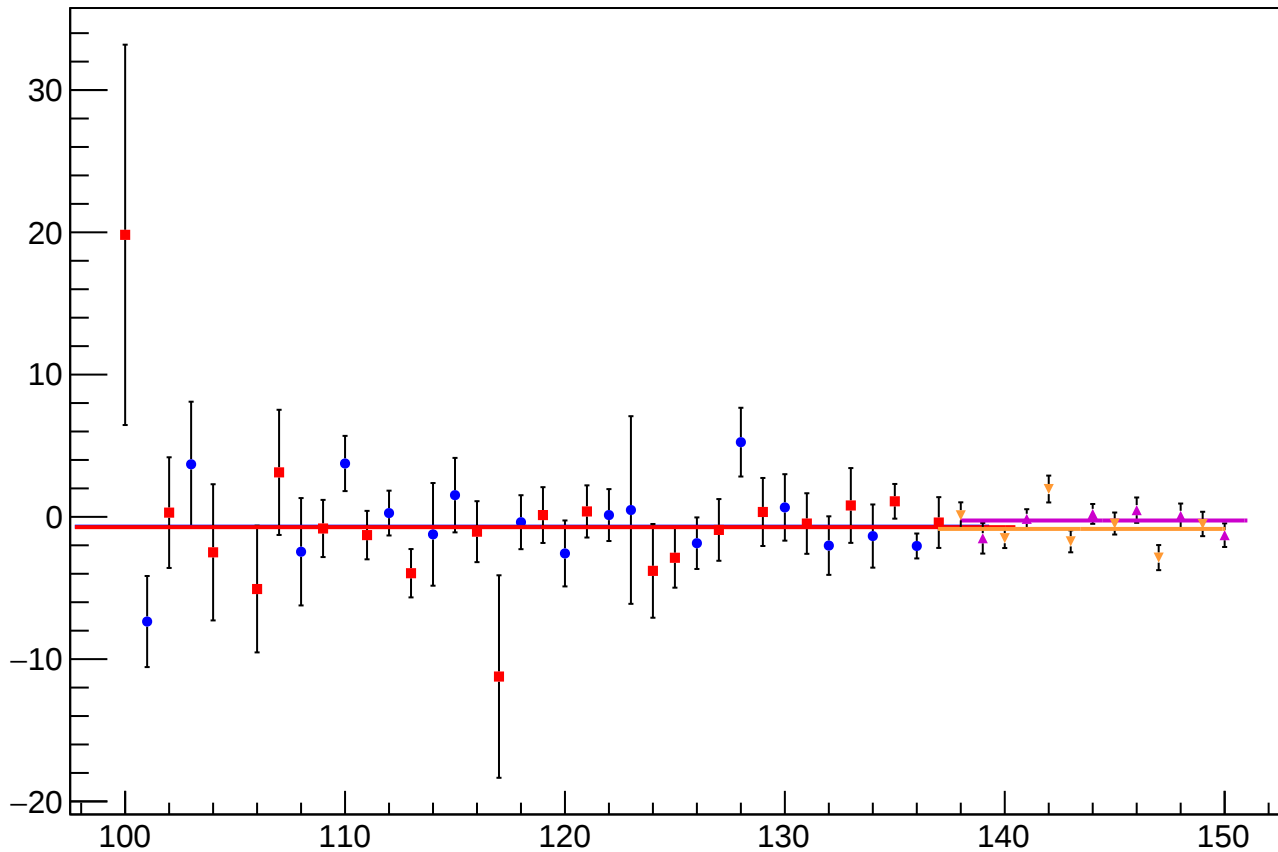
Right Out: 9.855+/-0.006 χ^2/NDF : 11246160.9/19

Left In: 4327.650+/-1.422 χ^2/NDF : 318635.5/5

10.035+/-0.007 χ^2/NDF : 20966520.5/23

9.935+/-0.006 χ^2/NDF : 20787325.3/25

diff_cav4cX_mean vs Slug



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

-0.801 ± 0.261 χ^2/NDF : 40.3/23

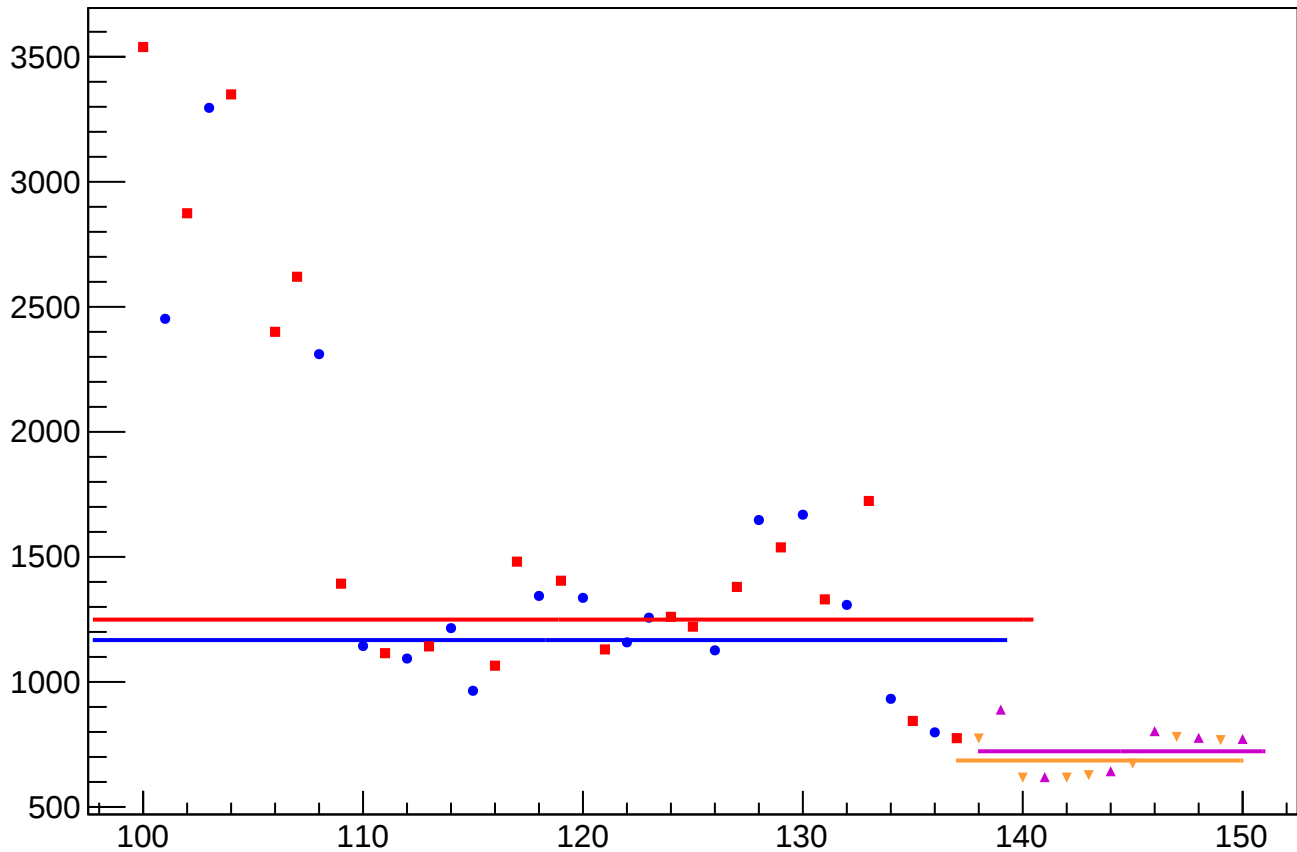
Left Out: -0.847 ± 0.310 χ^2/NDF : 17.7/6

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

-0.399 ± 0.276 χ^2/NDF : 20.3/25

Left In: -0.256 ± 0.331 χ^2/NDF : 4.2/5

diff_cav4cX_rms vs Slug



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

Left Out: 685.758 $\pm$ 0.219 χ^2 /NDF: 101580.5/6

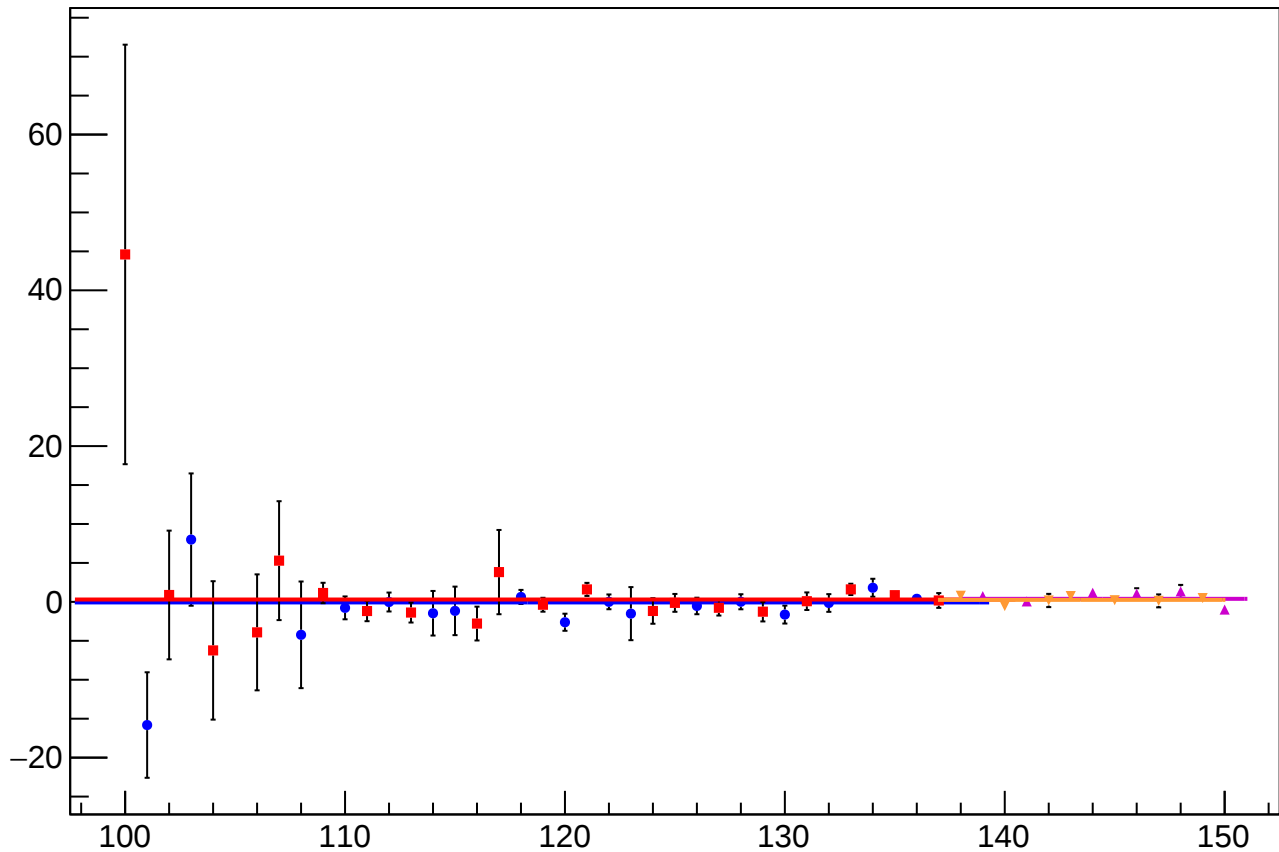
Right Out: 1249.388 $\pm$ 0.353 χ^2 /NDF: 1656159.5/19

Left In: 722.664 $\pm$ 0.234 χ^2 /NDF: 151653.7/5

826.769 $\pm$ 0.185 χ^2 /NDF: 3090649.4/23

883.145 $\pm$ 0.195 χ^2 /NDF: 3354522.8/25

diff_cav4cY_mean vs Slug



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

Left Out: 0.256 ± 0.229 χ^2/NDF : 4.1/6

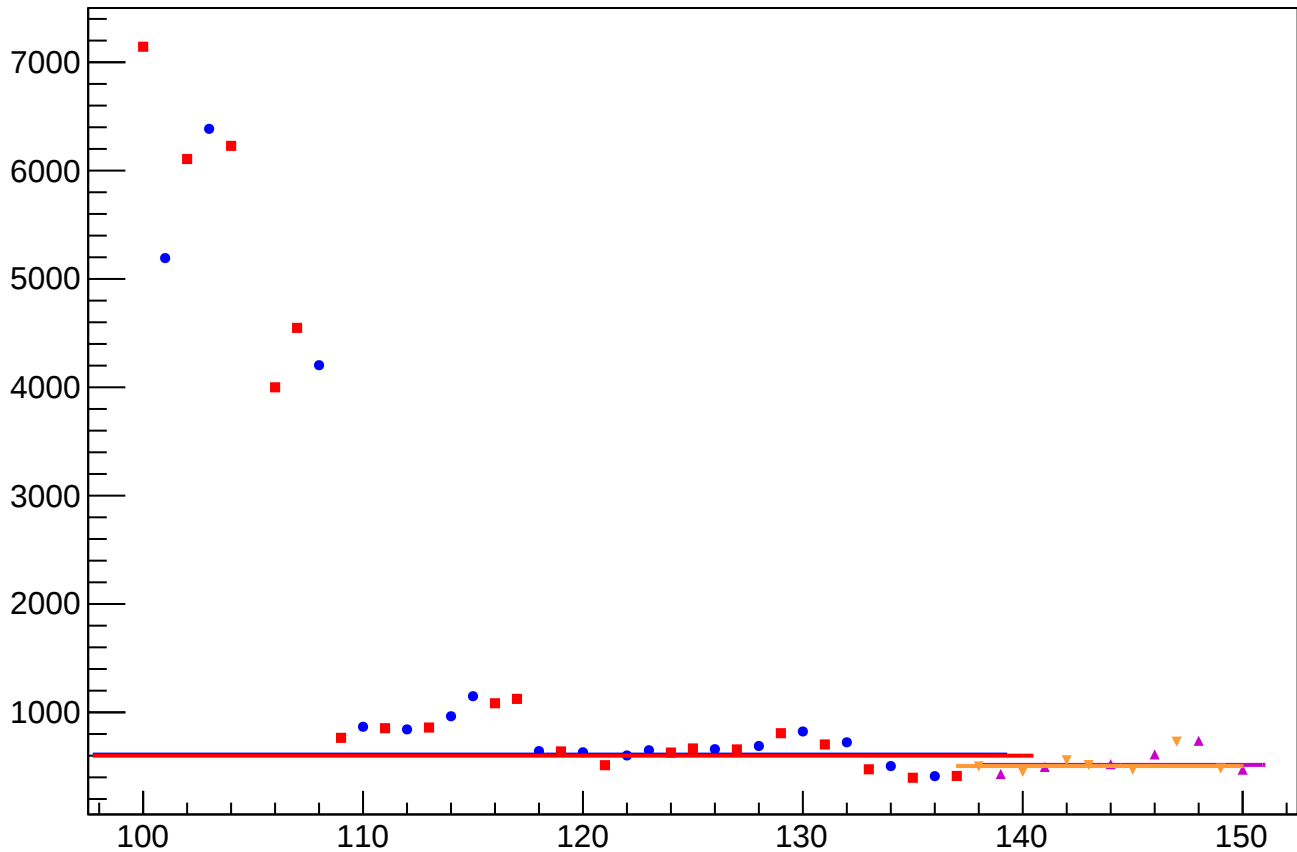
Right Out: 0.303 ± 0.264 χ^2/NDF : 20.7/19

Left In: 0.389 ± 0.238 χ^2/NDF : 12.4/5

0.118 ± 0.174 χ^2/NDF : 24.2/23

0.350 ± 0.177 χ^2/NDF : 33.1/25

diff_cav4cY_rms vs Slug



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

Left Out: 504.267 $\pm$ 0.162 χ^2 /NDF:189248.4/6

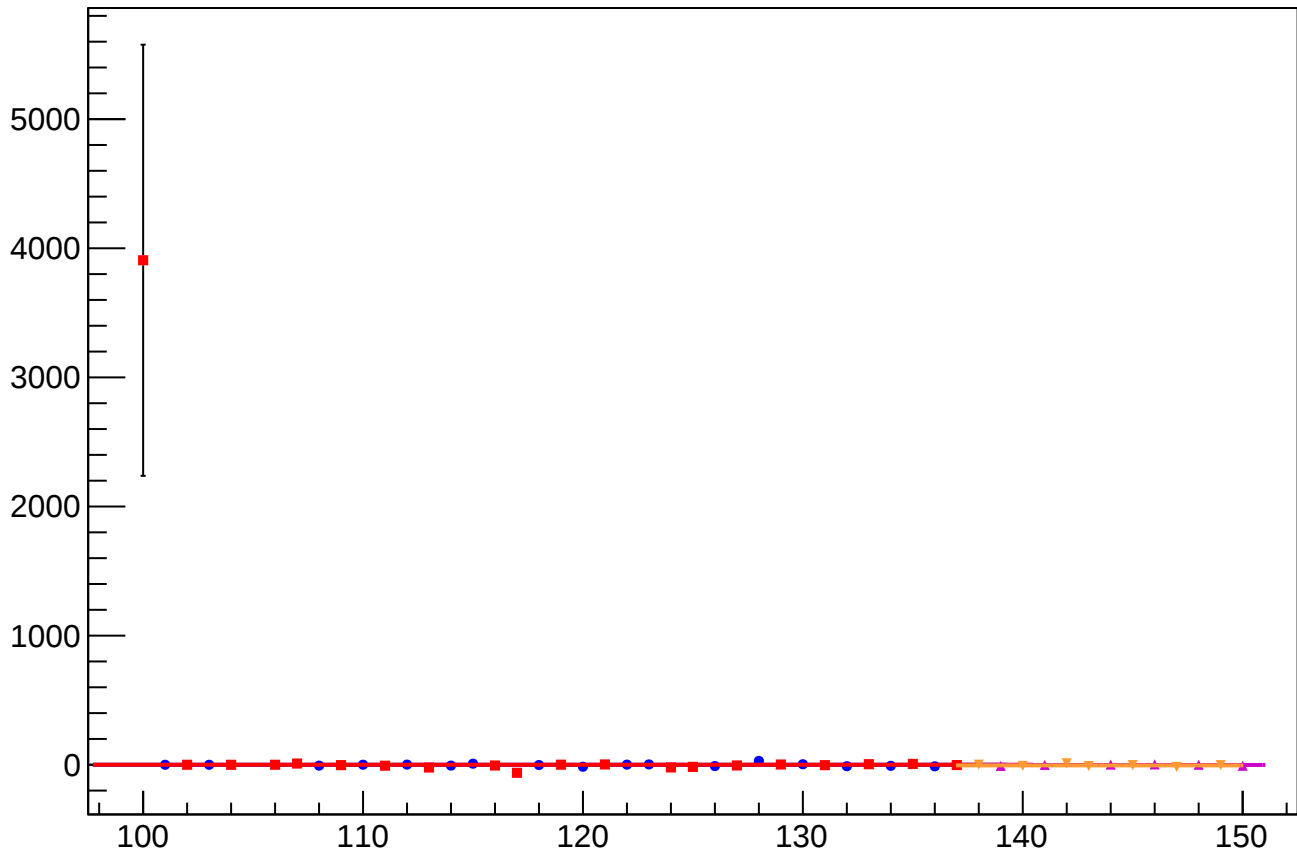
548.626 $\pm$ 0.123 χ^2 /NDF: 3504124.8/23

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

553.390 $\pm$ 0.125 χ^2 /NDF: 3936678.1/25

Left In: 515.084 $\pm$ 0.168 χ^2 /NDF:250559.3/5

diff_cav4dX_mean vs Slug



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

Left Out: -4.874+/-1.798 χ^2/NDF : 17.8/6

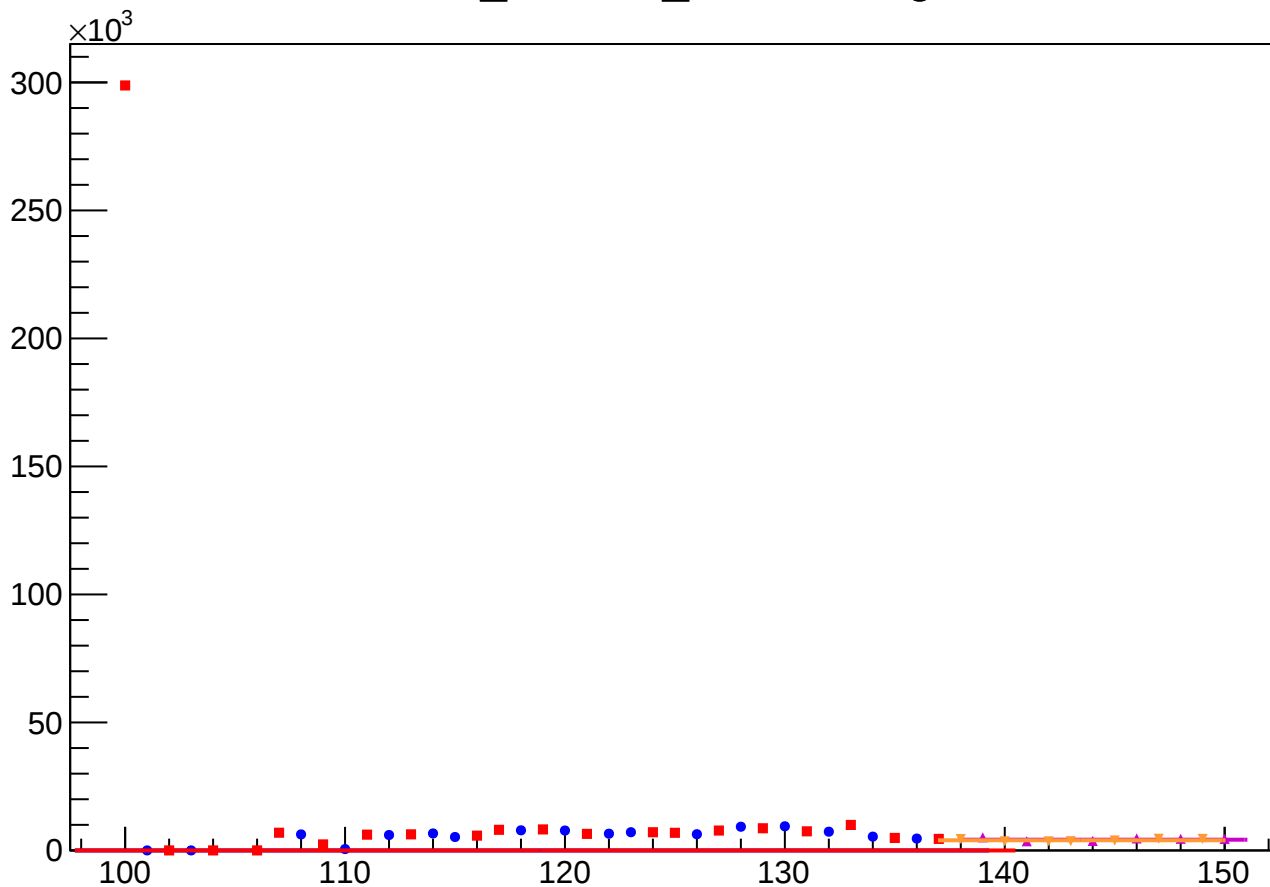
Right Out: -0.027+/-0.020 χ^2/NDF : 20.5/19

Left In: -1.473+/-1.921 χ^2/NDF : 4.2/5

-0.022+/-0.021 χ^2/NDF : 40.7/23

-0.027+/-0.020 χ^2/NDF : 25.2/25

diff_cav4dX_rms vs Slug



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

Left Out: 3971.293+/-1.271 χ^2/NDF :109938.0/6

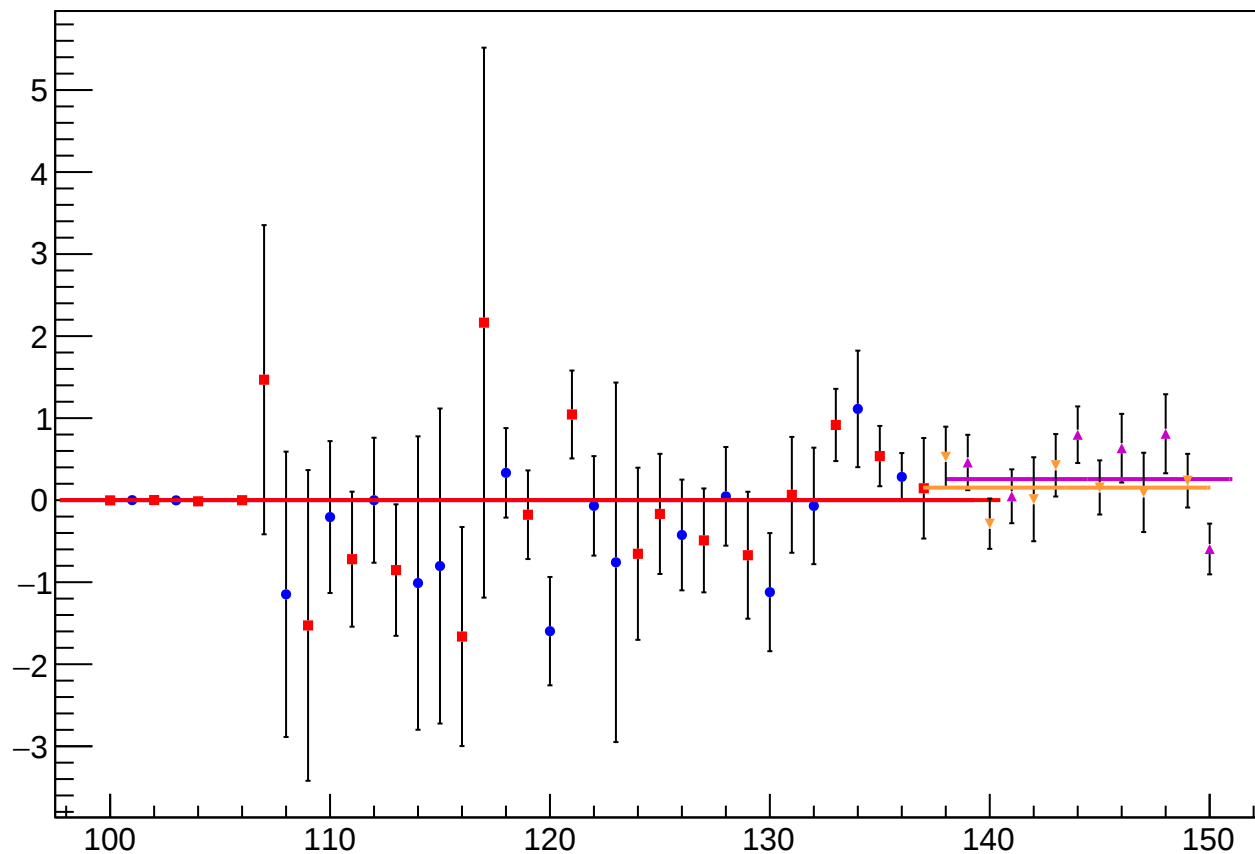
Right Out: 17.271+/-0.014 χ^2/NDF : 10906837.9/19

Left In: 4198.116+/-1.359 χ^2/NDF :158303.7/5

17.869+/-0.015 χ^2/NDF : 20280183.7/23

17.714+/-0.014 χ^2/NDF : 20534788.8/25

diff_cav4dY_mean vs Slug



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

Left Out: 0.153+/-0.139 χ^2/NDF : 3.8/6

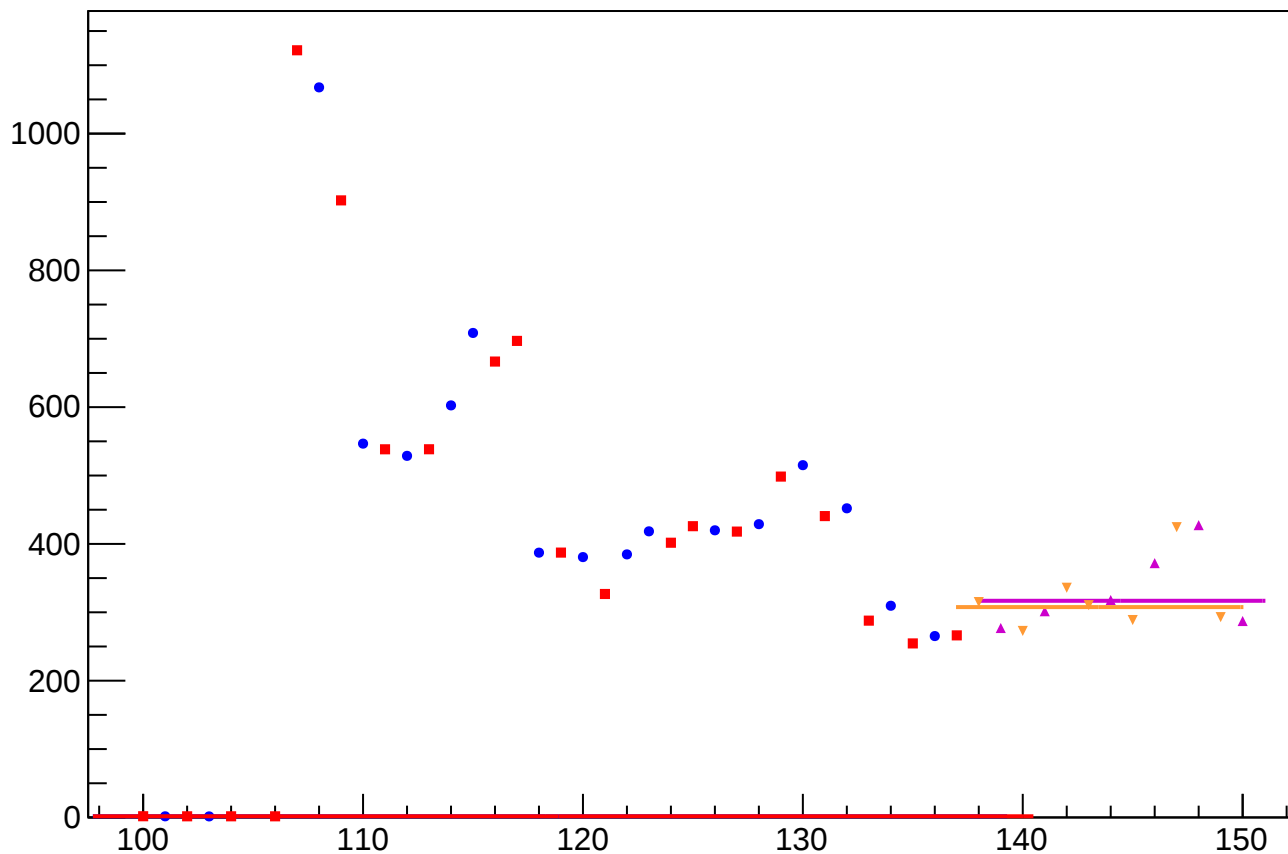
Right Out: 0.001+/-0.002 χ^2/NDF : 18.3/19

Left In: 0.257+/-0.146 χ^2/NDF : 12.9/5

0.000+/-0.002 χ^2/NDF : 18.7/23

0.001+/-0.002 χ^2/NDF : 34.3/25

diff_cav4dY_rms vs Slug



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

Left Out: 307.614+/-0.099 χ^2/NDF :160322.3/6

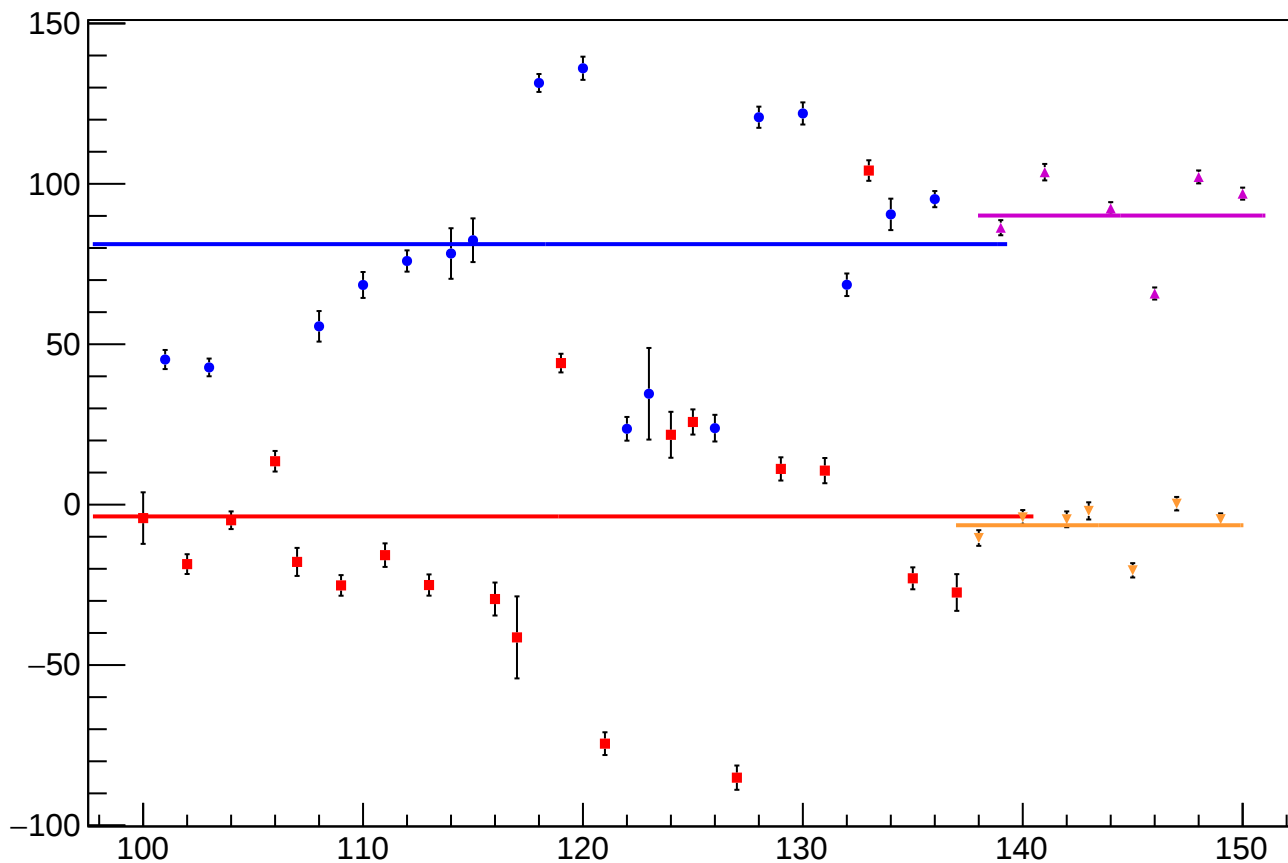
Right Out: 1.729+/-0.001 χ^2/NDF : 10829914.3/19

Left In: 316.838+/-0.103 χ^2/NDF :190472.1/5

1.764+/-0.001 χ^2/NDF : 20856343.9/23

1.784+/-0.001 χ^2/NDF : 20338710.7/25

diff_bpm0i01X_mean vs Slug



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

Left Out: -6.421+/-0.848 χ^2/NDF : 57.9/6

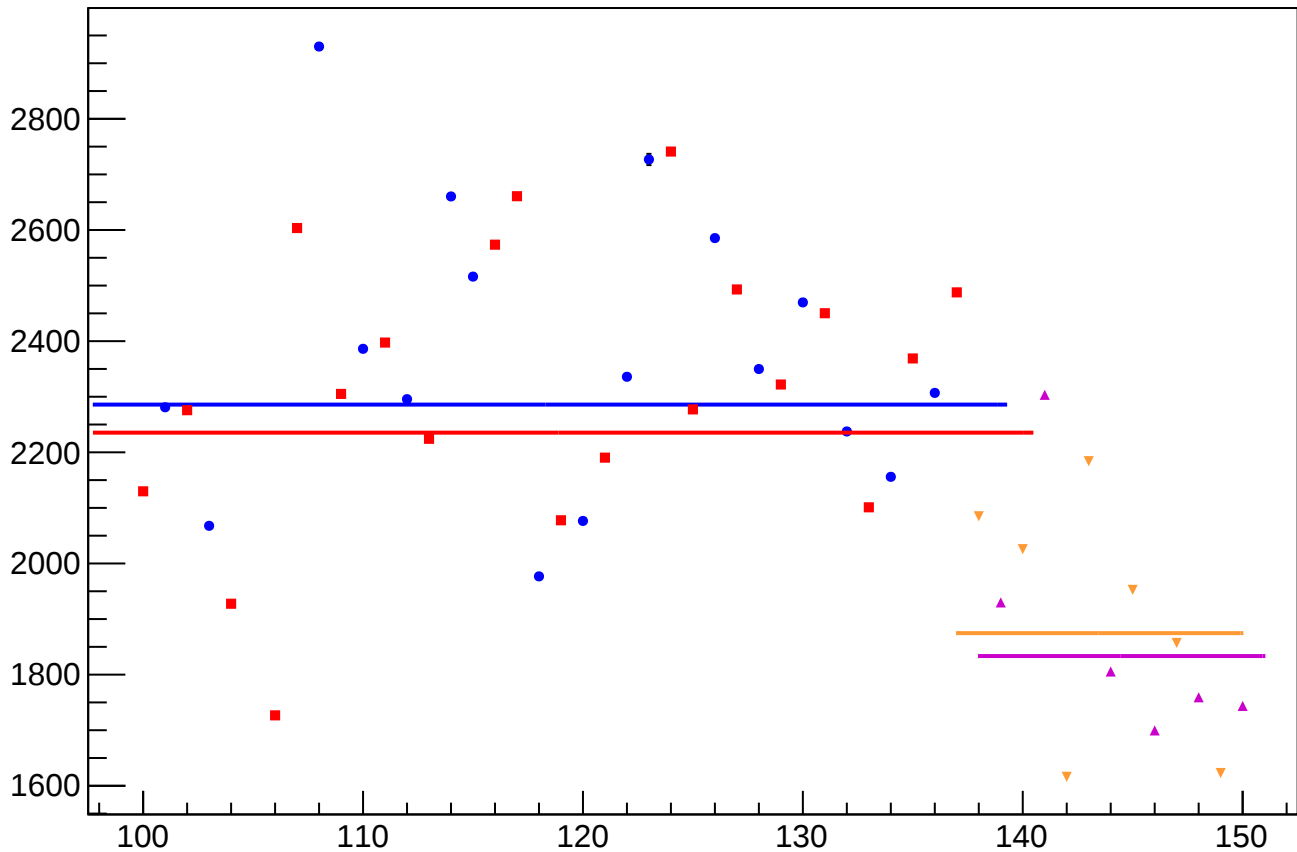
Right Out: -3.672+/-0.841 χ^2/NDF : 2607.8/19

Left In: 90.113+/-0.845 χ^2/NDF : 246.4/5

35.485+/-0.613 χ^2/NDF : 6874.1/23

42.999+/-0.596 χ^2/NDF : 9047.3/25

diff_bpm0i01X_rms vs Slug



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

Left Out: 1874.689+/-0.600 χ^2/NDF : 113090.6/6

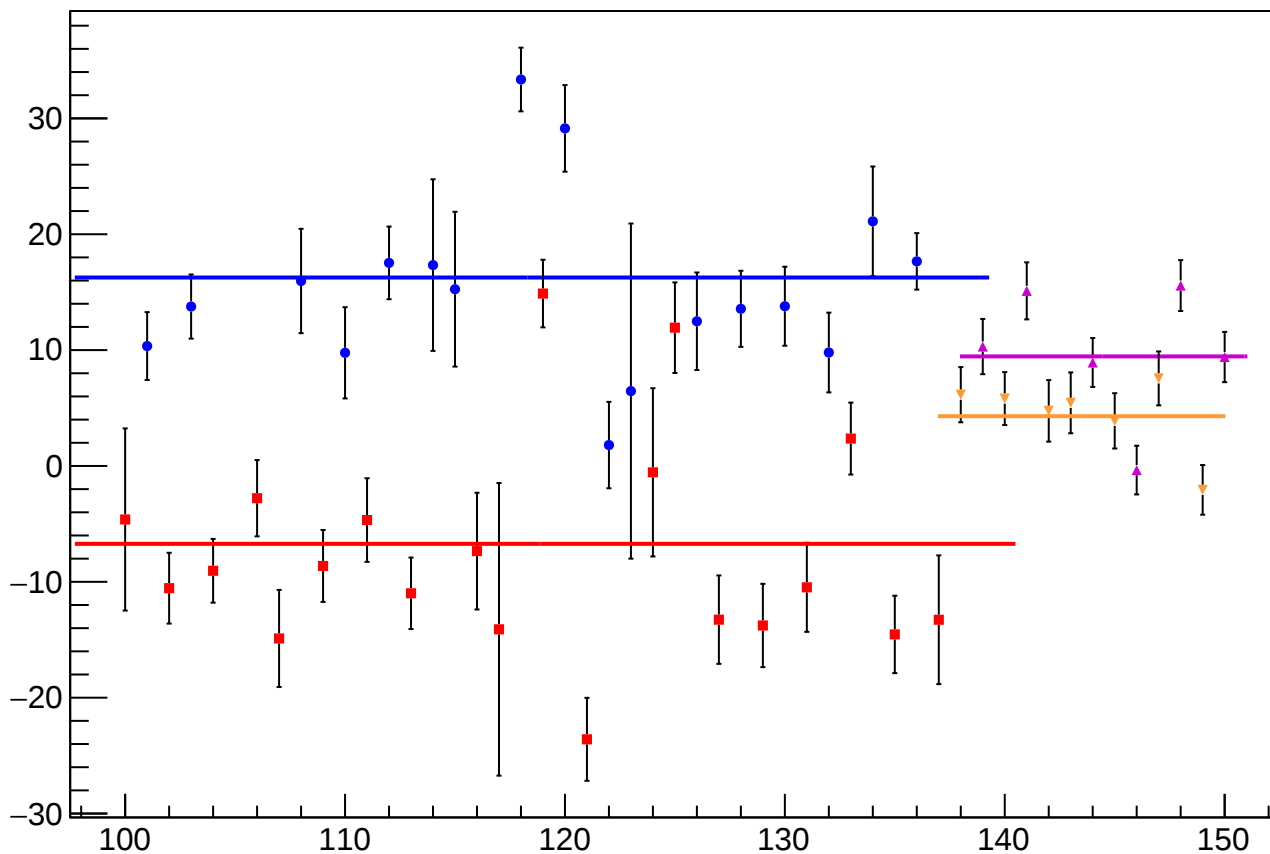
Right Out: 2235.394+/-0.594 χ^2/NDF : 149072.1/19

Left In: 1833.433+/-0.597 χ^2/NDF : 88047.6/5

2071.335+/-0.433 χ^2/NDF : 447307.3/23

2035.362+/-0.421 χ^2/NDF : 464647.9/25

diff_bpm0i01Y_mean vs Slug



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

Left Out: 4.295 ± 0.901 χ^2/NDF : 12.1/6

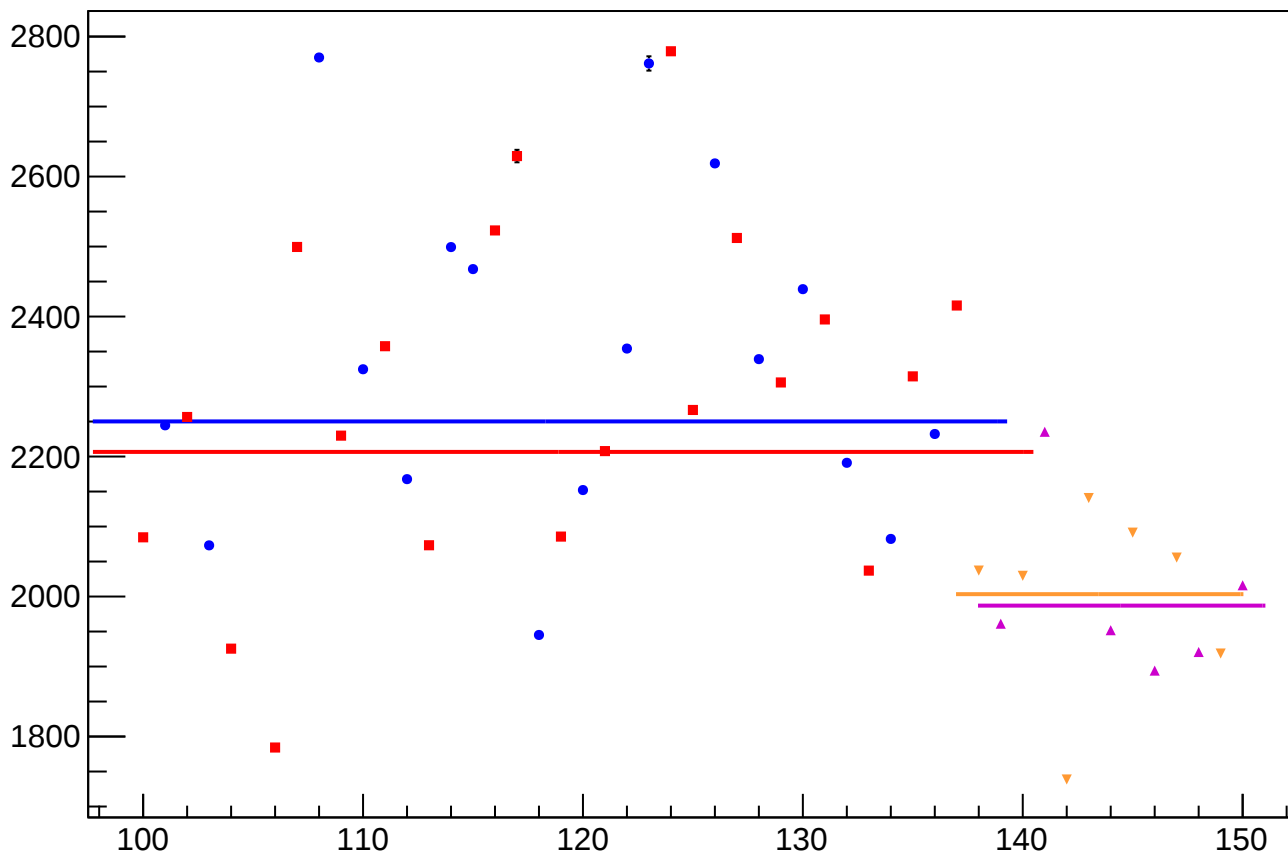
Right Out: -6.722 ± 0.829 χ^2/NDF : 134.3/19

Left In: 9.455 ± 0.909 χ^2/NDF : 35.0/5

10.476 ± 0.626 χ^2/NDF : 184.1/23

0.627 ± 0.612 χ^2/NDF : 342.3/25

diff_bpm0i01Y_rms vs Slug



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

Left Out: 2003.392+/-0.637 χ^2/NDF : 32864.8/6

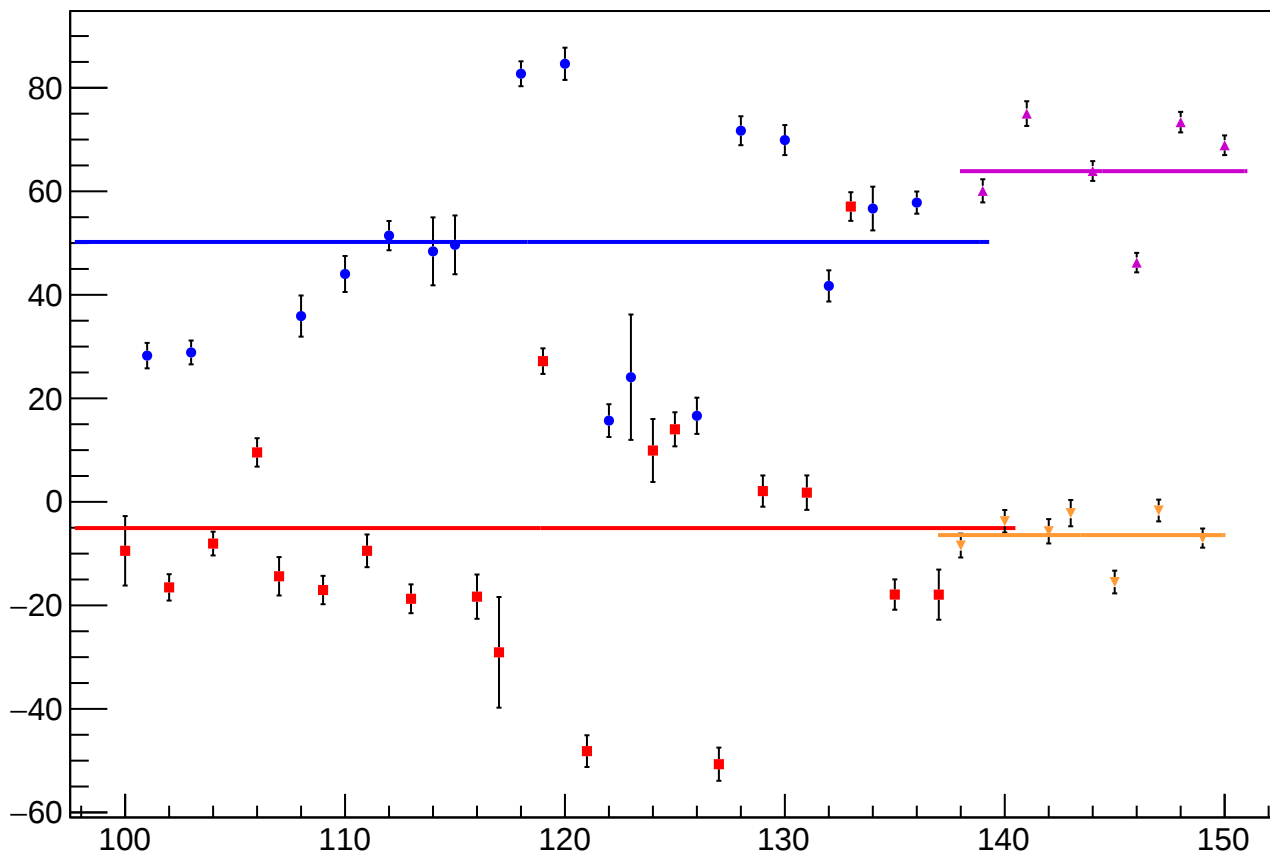
Right Out: 2206.617+/-0.586 χ^2/NDF : 128476.5/19

Left In: 1987.022+/-0.642 χ^2/NDF : 27226.4/5

2130.828+/-0.443 χ^2/NDF : 207999.0/23

2106.858+/-0.433 χ^2/NDF : 219461.1/25

diff_bpm0i01aX_mean vs Slug



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

Left Out: -6.419+/-0.827 χ^2 /NDF:27.4/6

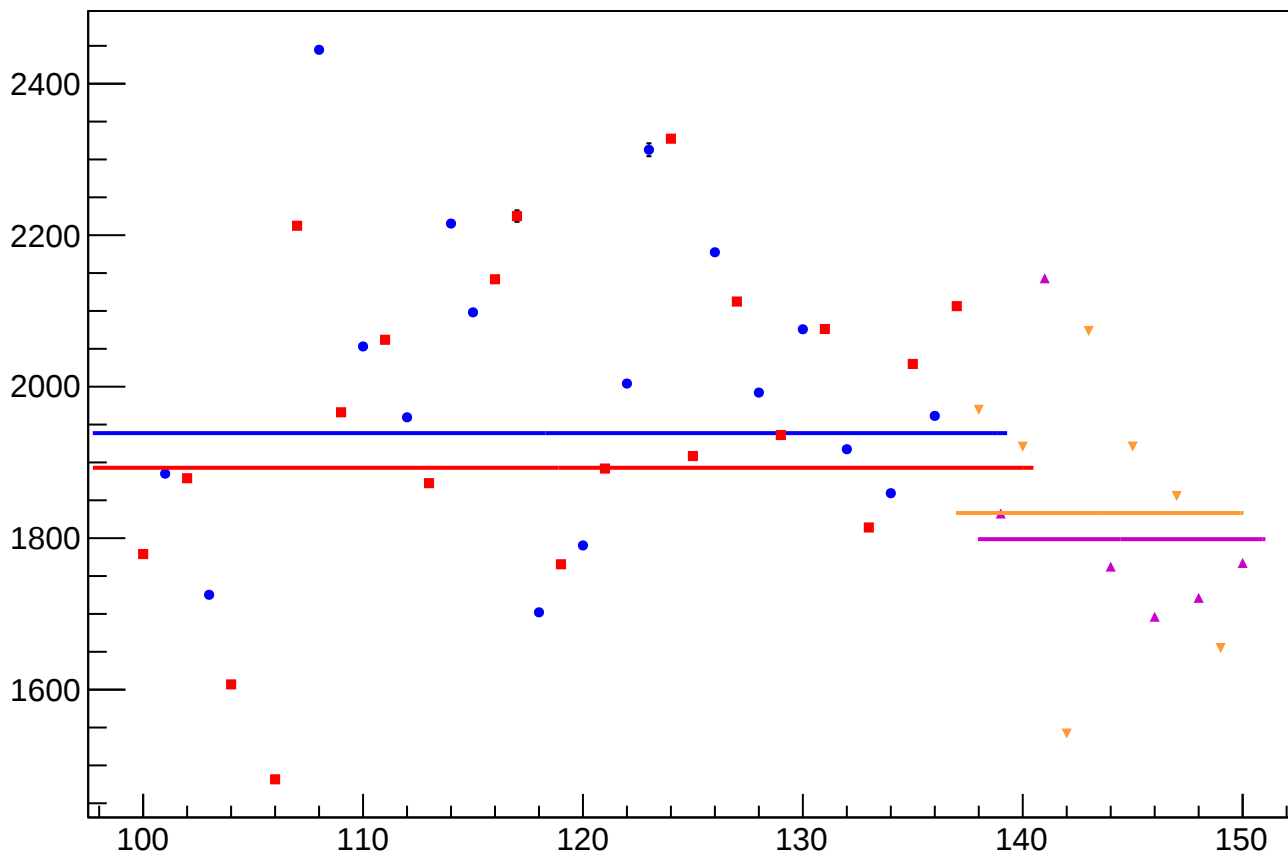
Right Out: -5.065+/-0.712 χ^2 /NDF: 1267.6/19

Left In: 63.895+/-0.827 χ^2 /NDF:142.5/5

24.640+/-0.556 χ^2 /NDF: 3427.4/23

24.282+/-0.540 χ^2 /NDF: 5404.1/25

diff_bpm0i01aX_rms vs Slug



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

Left Out: 1833.261 $\pm$ 0.585 χ^2 /NDF: 80666.6/6

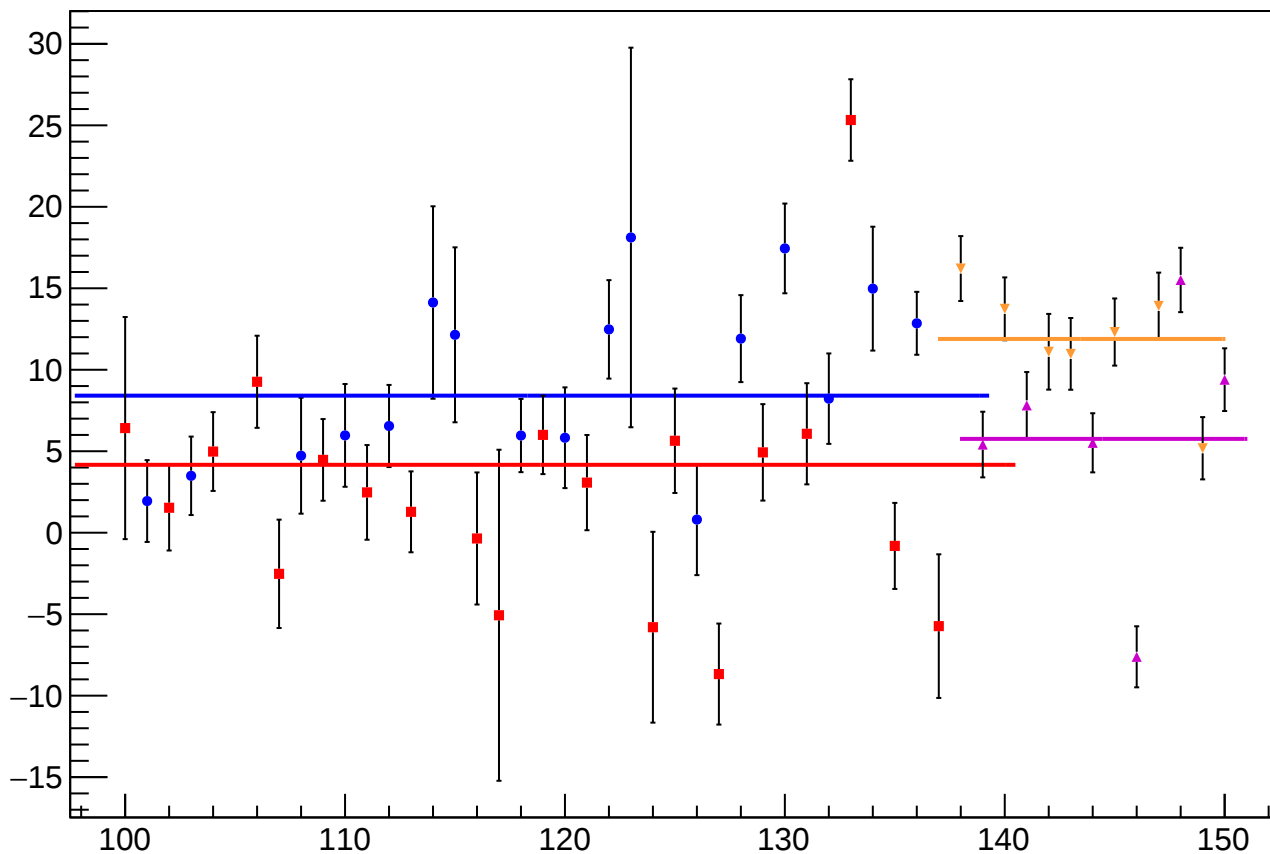
Right Out: 1892.946 $\pm$ 0.503 χ^2 /NDF: 148563.2/19

Left In: 1798.700 $\pm$ 0.585 χ^2 /NDF: 52287.6/5

1891.078 $\pm$ 0.393 χ^2 /NDF: 198619.2/23

1852.839 $\pm$ 0.381 χ^2 /NDF: 215770.7/25

diff_bpm0i01aY_mean vs Slug



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

Left Out: 11.891+/-0.776 χ^2/NDF : 19.3/6

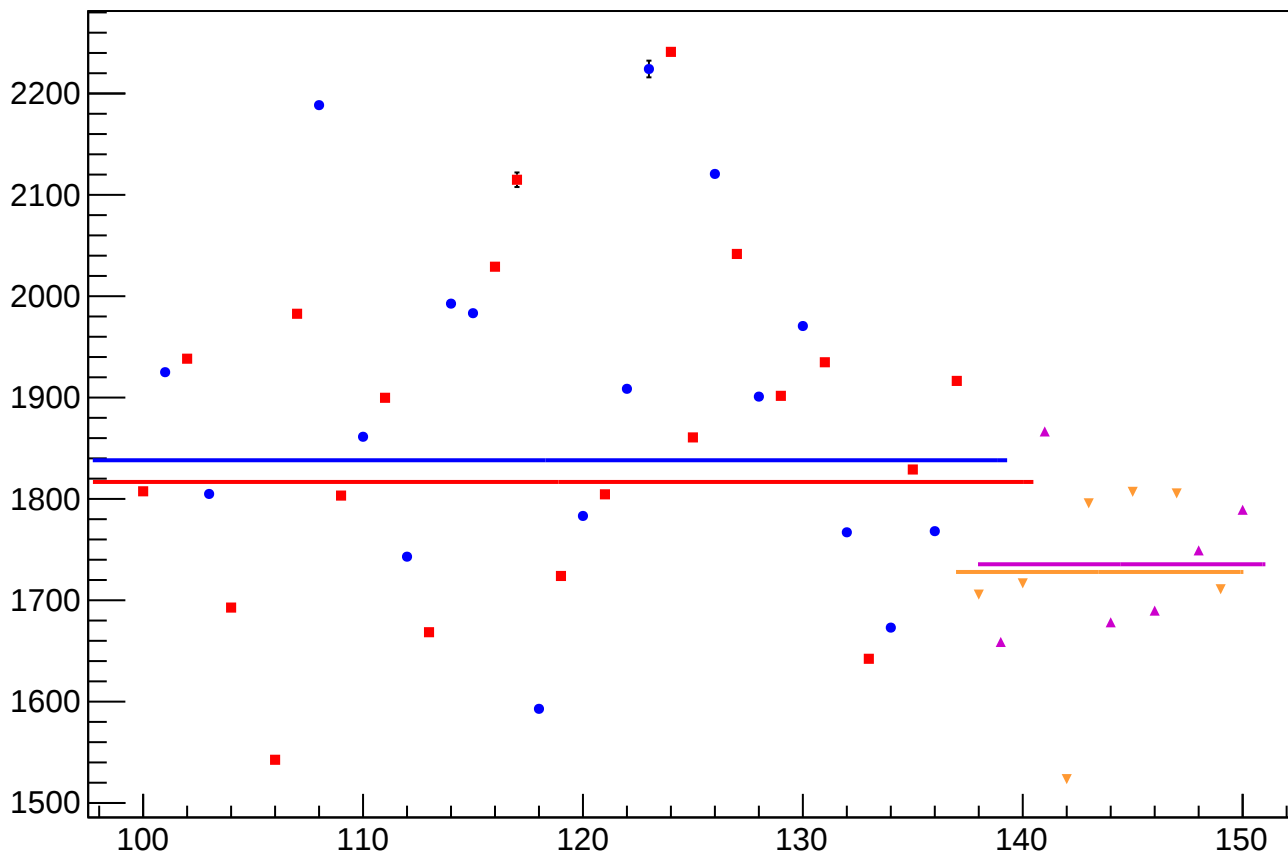
Right Out: 4.167+/-0.681 χ^2/NDF : 113.9/19

Left In: 5.758+/-0.791 χ^2/NDF : 80.0/5

10.000+/-0.524 χ^2/NDF : 74.8/23

4.844+/-0.516 χ^2/NDF : 196.2/25

diff_bpm0i01aY_rms vs Slug



Right In: 1838.143+/-0.503 χ^2/NDF : 82878.7/16

Left Out: 1727.934+/-0.549 χ^2/NDF : 23668.1/6

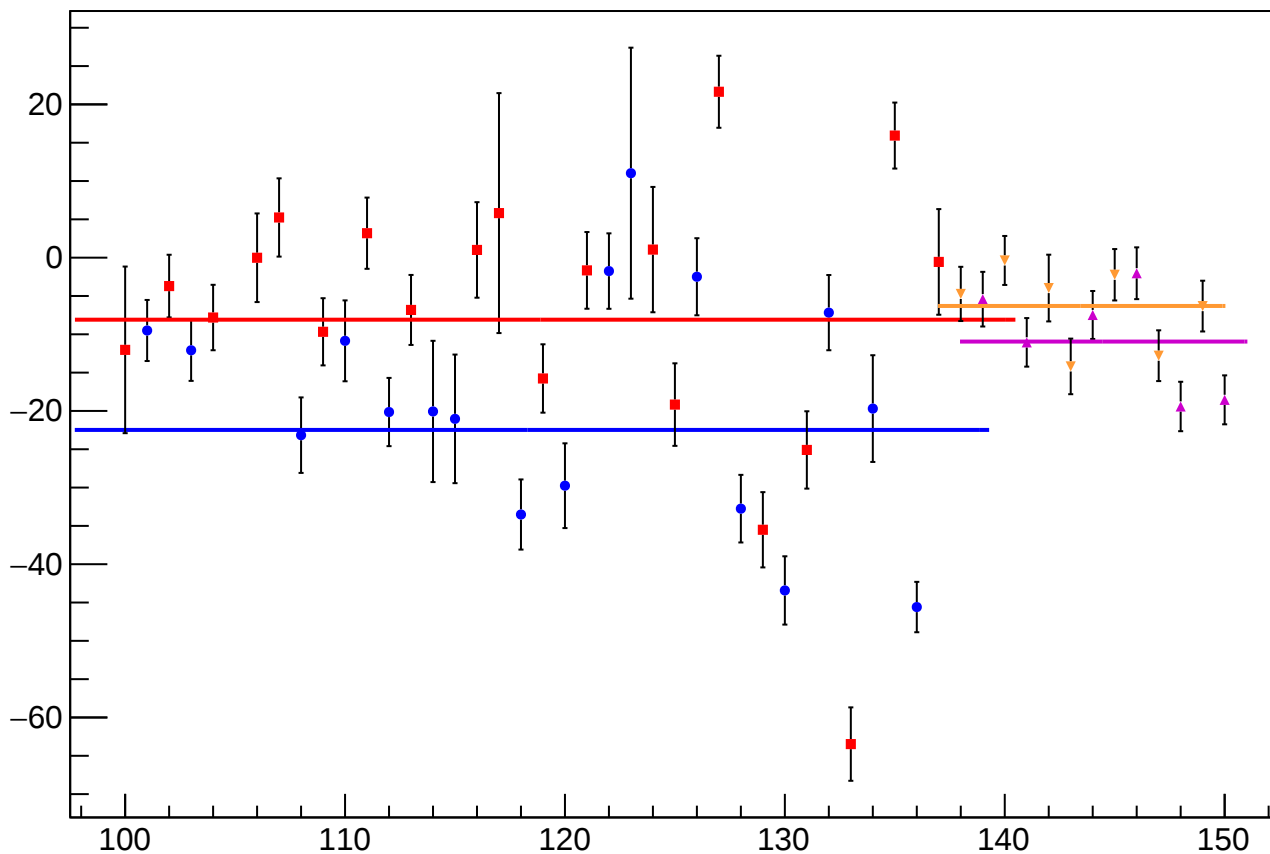
Right Out: 1816.748+/-0.481 χ^2/NDF : 89149.7/19

Left In: 1735.524+/-0.559 χ^2/NDF : 15933.7/5

1787.815+/-0.371 χ^2/NDF : 128477.0/23

1782.156+/-0.365 χ^2/NDF : 117205.4/25

diff_bpm0l01X_mean vs Slug



Right In: -22.477 ± 1.195 $\chi^2/\text{NDF}: 154.7/16$

Left Out: -6.302 ± 1.316 $\chi^2/\text{NDF}: 14.0/6$

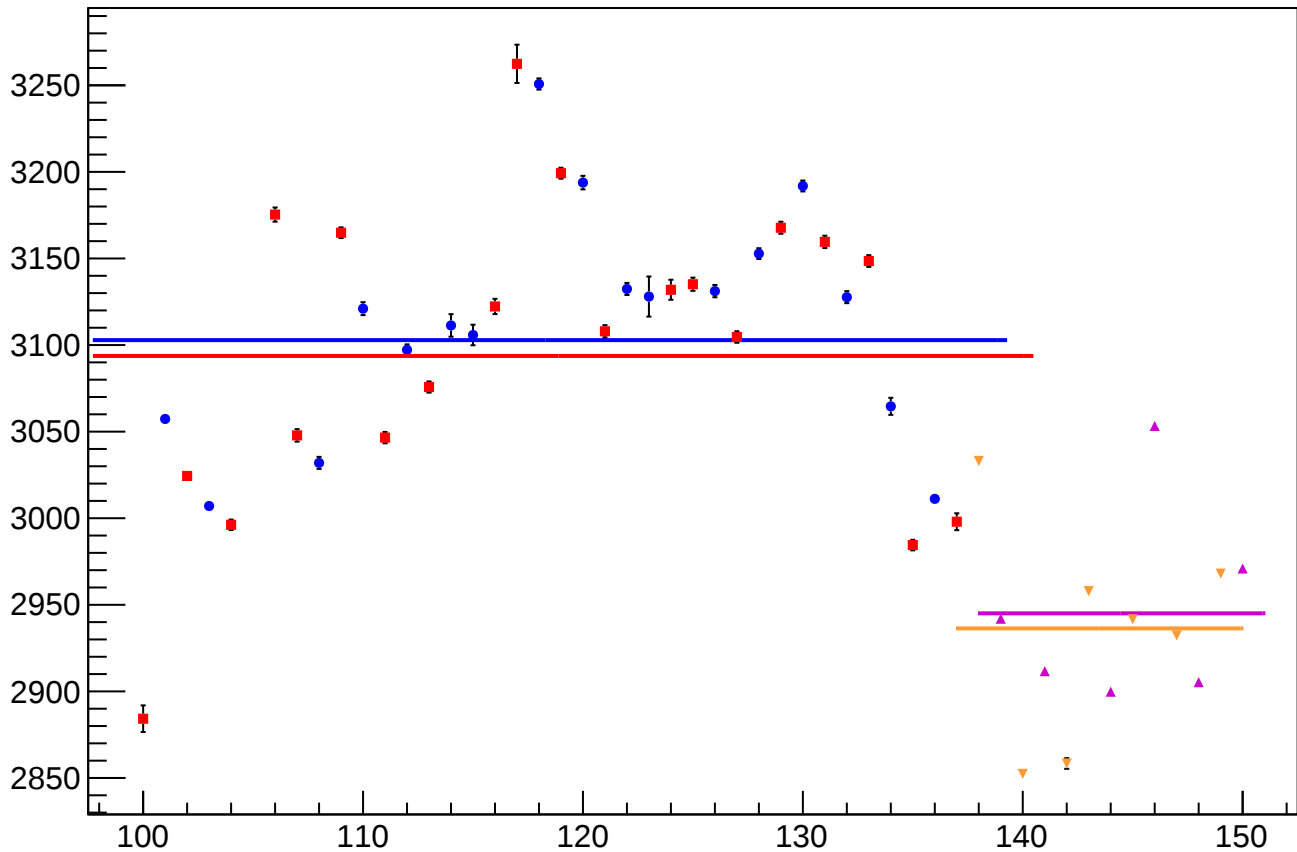
Right Out: -8.093 ± 1.153 $\chi^2/\text{NDF}: 277.7/19$

Left In: -10.948 ± 1.334 $\chi^2/\text{NDF}: 23.2/5$

-15.167 ± 0.884 $\chi^2/\text{NDF}: 251.5/23$

-9.315 ± 0.872 $\chi^2/\text{NDF}: 303.5/25$

diff_bpm0l01X_rms vs Slug



Right In: 3102.846 ± 0.845 χ^2/NDF : 7344.9/16

Left Out: 2936.382 ± 0.930 χ^2/NDF : 3779.2/6

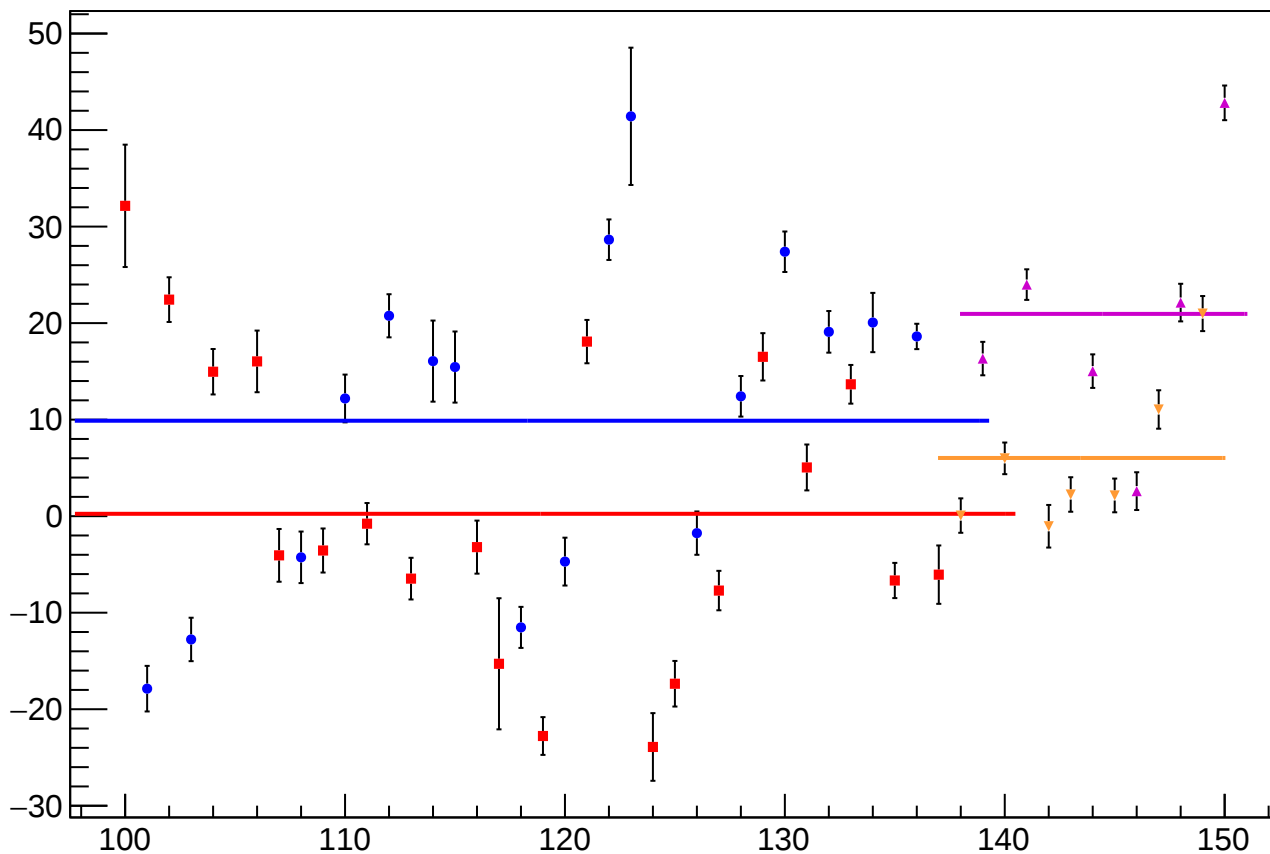
Right Out: 3093.715 ± 0.816 χ^2/NDF : 7996.8/19

Left In: 2945.088 ± 0.943 χ^2/NDF : 3128.2/5

3027.608 ± 0.625 χ^2/NDF : 28672.9/23

3030.131 ± 0.617 χ^2/NDF : 25333.1/25

diff_bpm0l01Y_mean vs Slug



Right In: 9.887 ± 0.559 χ^2/NDF : 703.6/16

Left Out: 6.030 ± 0.692 χ^2/NDF : 105.1/6

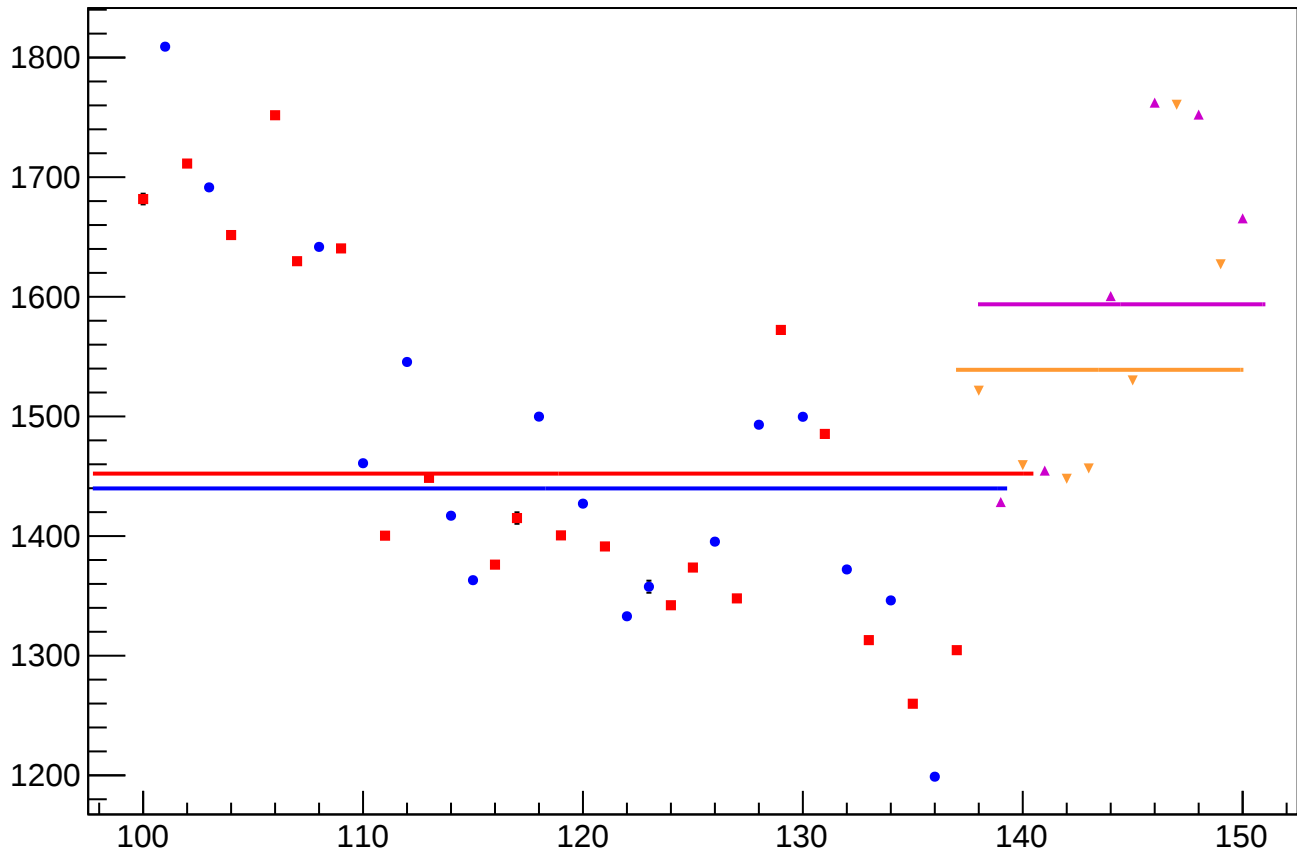
Right Out: 0.245 ± 0.545 χ^2/NDF : 634.1/19

Left In: 20.955 ± 0.726 χ^2/NDF : 259.2/5

8.363 ± 0.435 χ^2/NDF : 827.5/23

7.712 ± 0.436 χ^2/NDF : 1413.7/25

diff_bpm0l01Y_rms vs Slug



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

Left Out: 1538.982 $\pm$ 0.489 χ^2 /NDF:42119.7/6

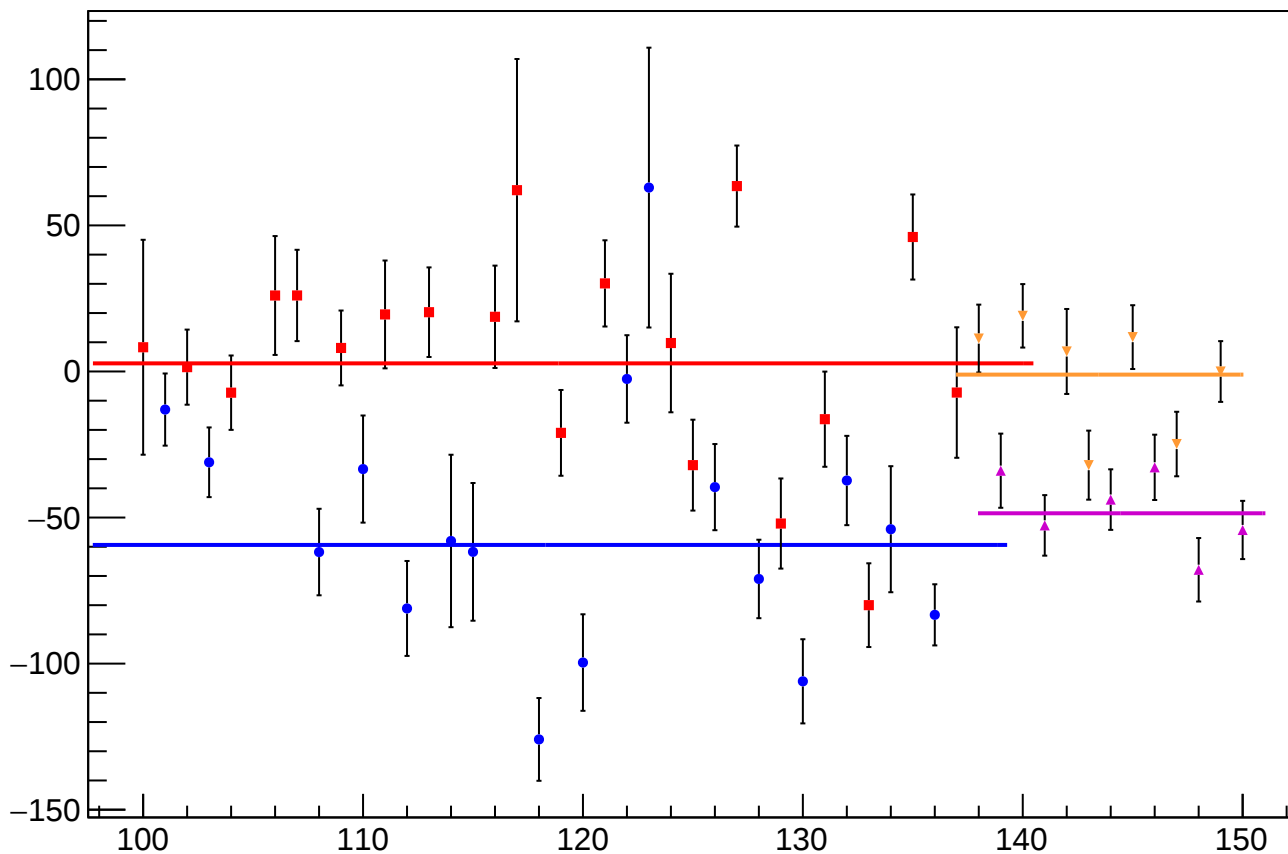
Right Out: 1452.211 $\pm$ 0.385 χ^2 /NDF: 138579.9/19

Left In: 1593.735 $\pm$ 0.513 χ^2 /NDF:64934.0/5

1479.017 $\pm$ 0.308 χ^2 /NDF: 239772.7/23

1503.235 $\pm$ 0.308 χ^2 /NDF: 252116.1/25

diff_bpm0l02X_mean vs Slug



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

Left Out: -1.073 ± 4.319 $\chi^2/\text{NDF}: 17.8/6$

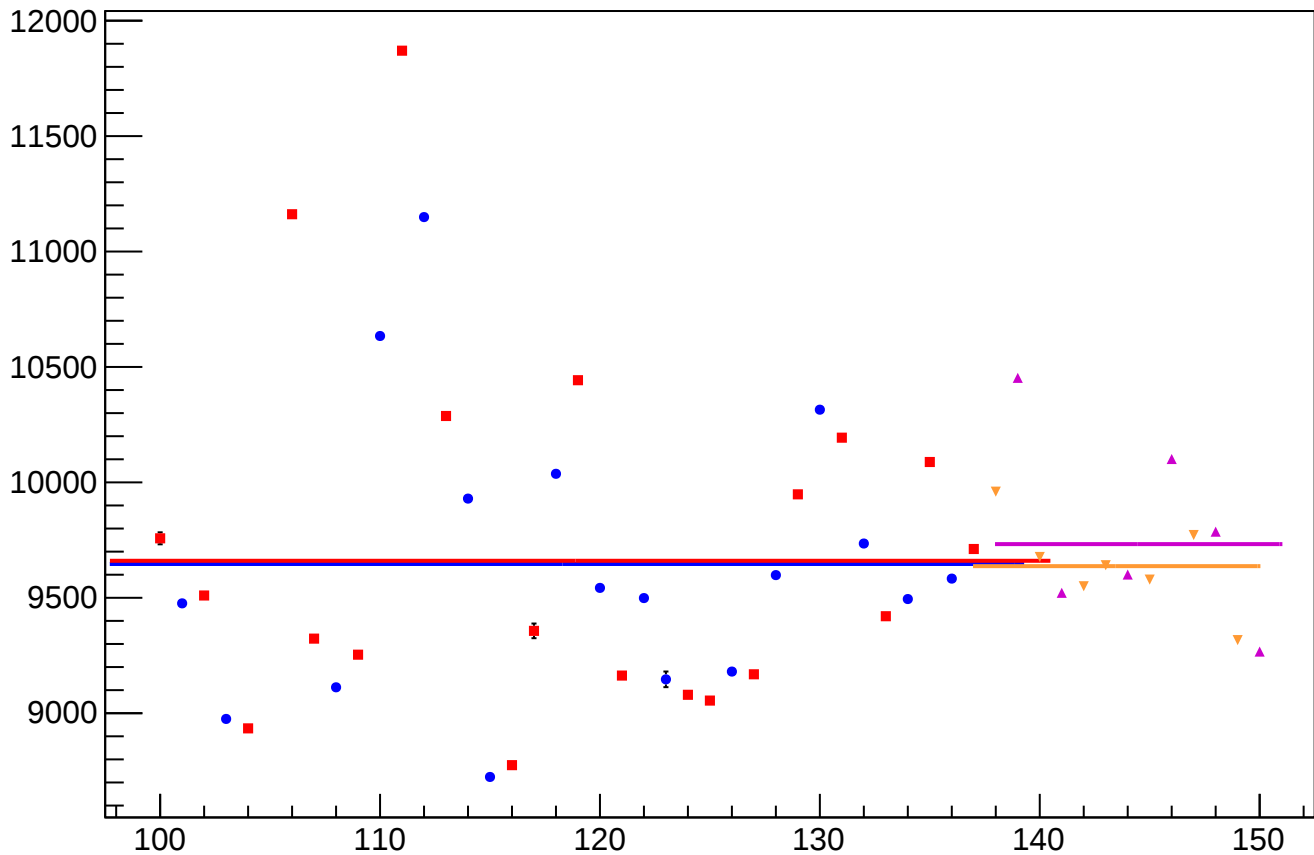
Right Out: 2.776 ± 3.618 $\chi^2/\text{NDF}: 95.7/19$

Left In: -48.540 ± 4.412 $\chi^2/\text{NDF}: 7.2/5$

-34.475 ± 2.822 $\chi^2/\text{NDF}: 215.1/23$

-17.859 ± 2.797 $\chi^2/\text{NDF}: 183.8/25$

diff_bpm0l02X_rms vs Slug



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

Left Out: 9637.112 ± 3.054 χ^2/NDF : 3896.9/6

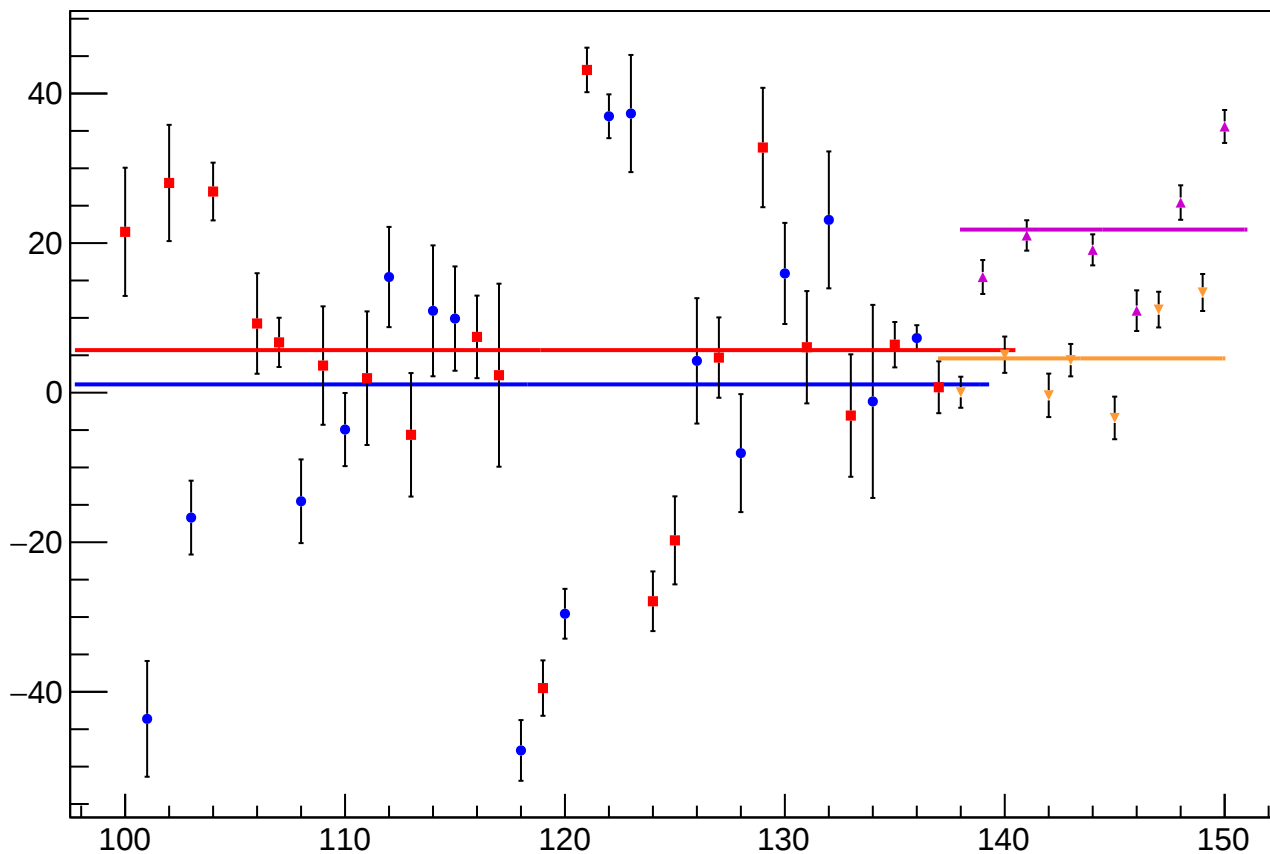
Right Out: 9660.380 ± 2.558 χ^2/NDF : 77676.0/19

Left In: 9732.566 ± 3.119 χ^2/NDF : 14182.2/5

9642.479 ± 1.996 χ^2/NDF : 47962.5/23

9689.406 ± 1.978 χ^2/NDF : 92178.4/25

diff_bpm0l02Y_mean vs Slug



Right In: 1.106 ± 1.066 χ^2/NDF : 489.7/16

Left Out: 4.584 ± 0.914 χ^2/NDF : 35.7/6

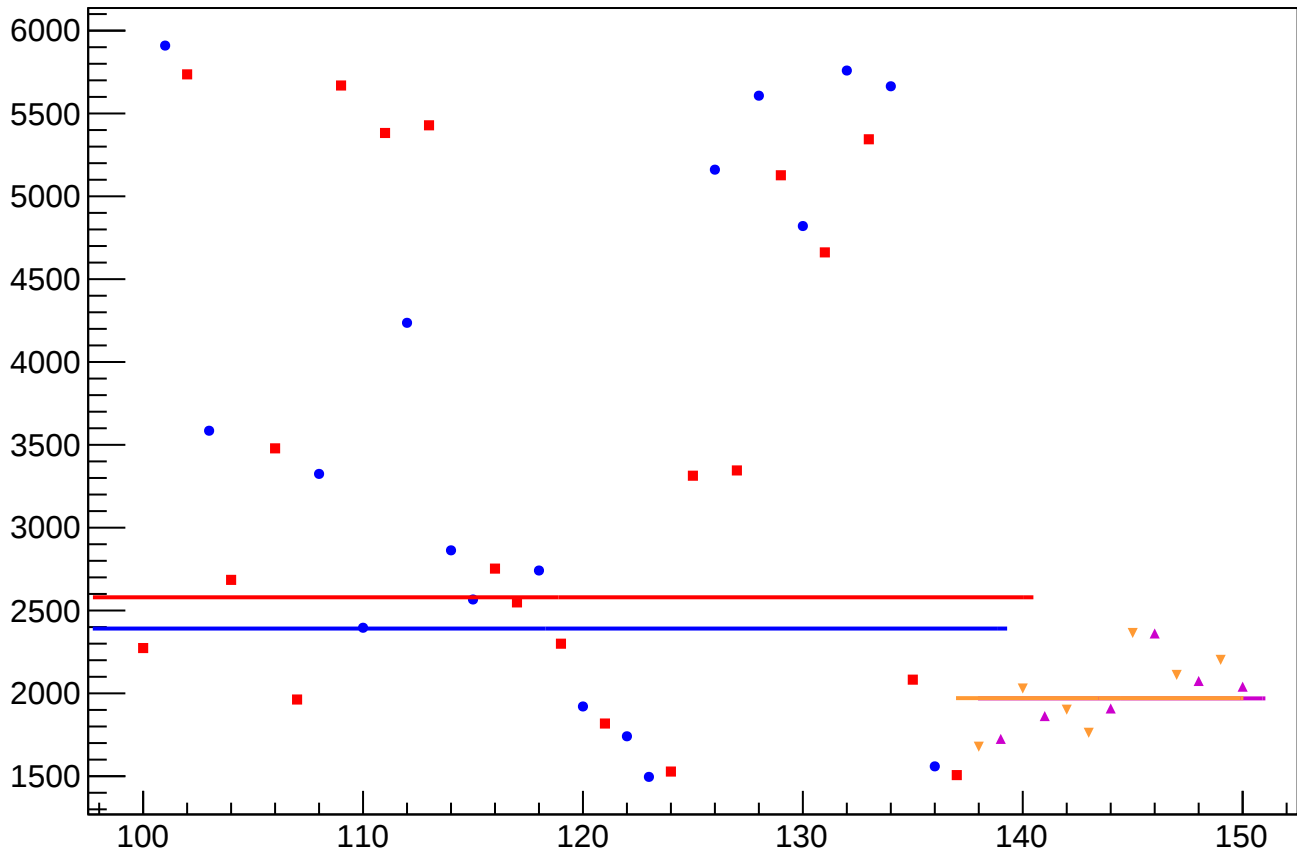
Right Out: 5.689 ± 1.087 χ^2/NDF : 456.0/19

Left In: 21.807 ± 0.913 χ^2/NDF : 67.2/5

3.111 ± 0.694 χ^2/NDF : 531.5/23

15.134 ± 0.699 χ^2/NDF : 652.1/25

diff_bpm0l02Y_rms vs Slug



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

Left Out: 1971.115+/-0.647 χ^2/NDF :123269.2/6

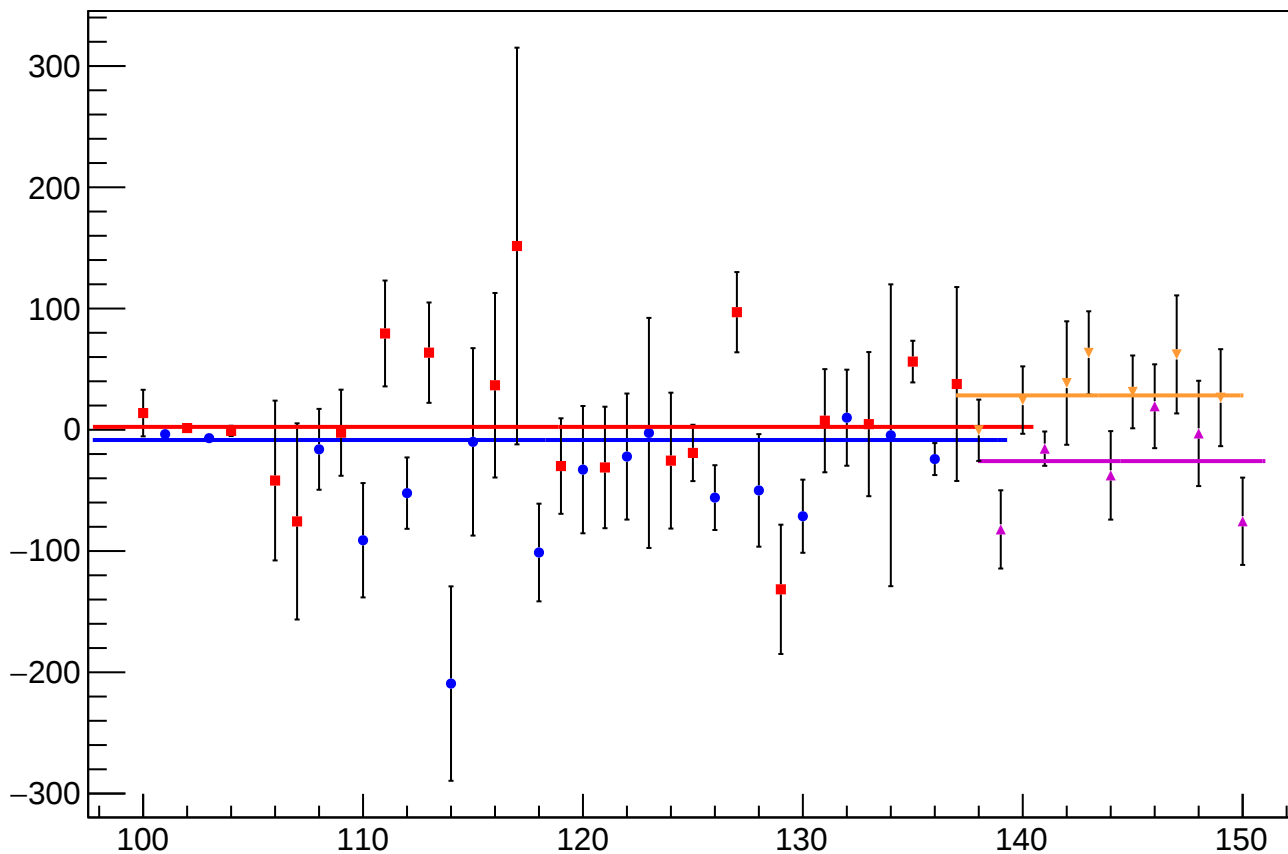
2149.095+/-0.491 χ^2/NDF : 2902619.0/23

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

2222.236+/-0.494 χ^2/NDF : 2812996.6/25

Left In: 1969.623+/-0.646 χ^2/NDF :78285.7/5

diff_bpm0l03X_mean vs Slug



Right In: -8.430 ± 2.587 $\chi^2/\text{NDF}: 28.9/16$

Left Out: 28.373 ± 12.645 $\chi^2/\text{NDF}: 2.9/6$

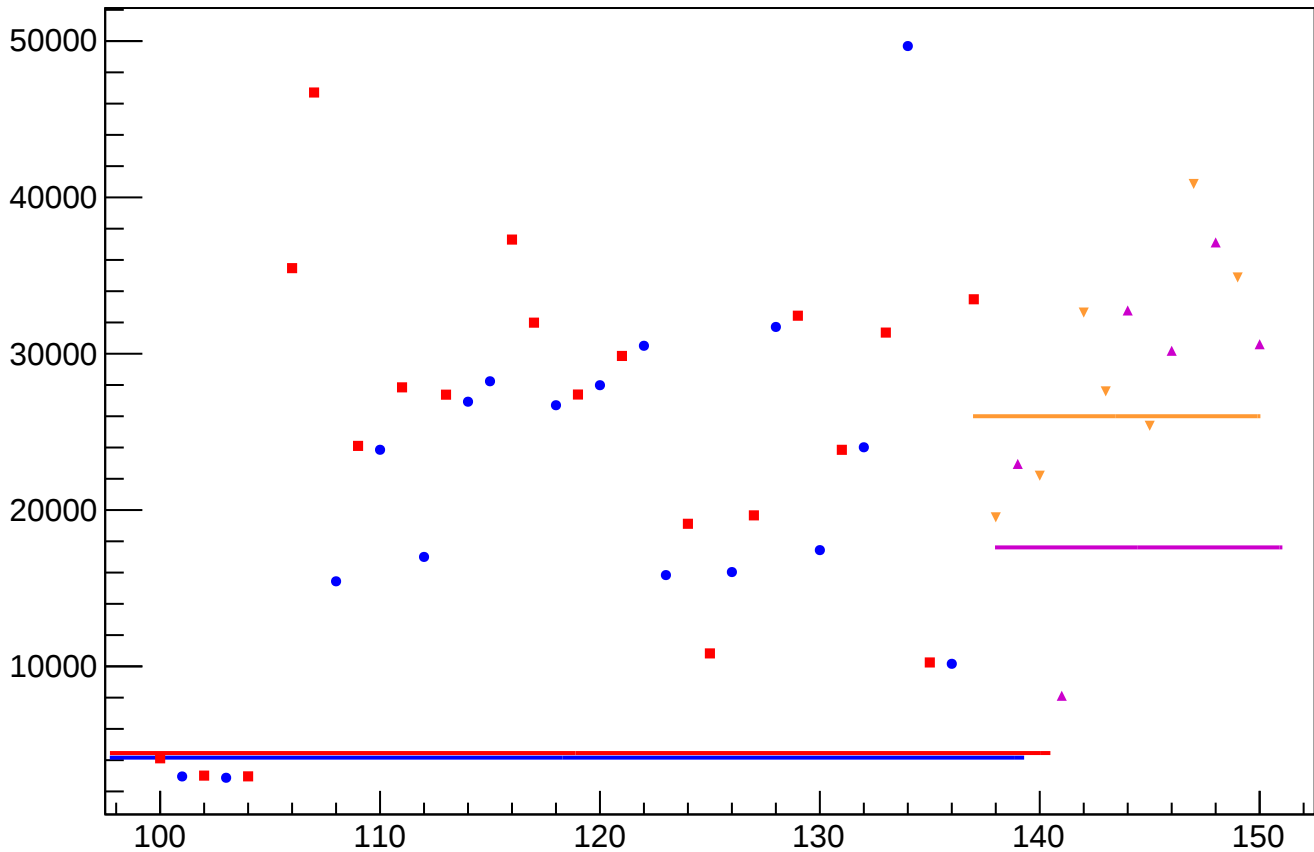
Right Out: 2.392 ± 2.786 $\chi^2/\text{NDF}: 35.5/19$

Left In: -25.822 ± 10.632 $\chi^2/\text{NDF}: 7.6/5$

-6.951 ± 2.535 $\chi^2/\text{NDF}: 39.9/23$

0.578 ± 2.695 $\chi^2/\text{NDF}: 49.7/25$

diff_bpm0l03X_rms vs Slug



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

Left Out: 26001.681+/-8.941 χ^2/NDF : 492438.7/6

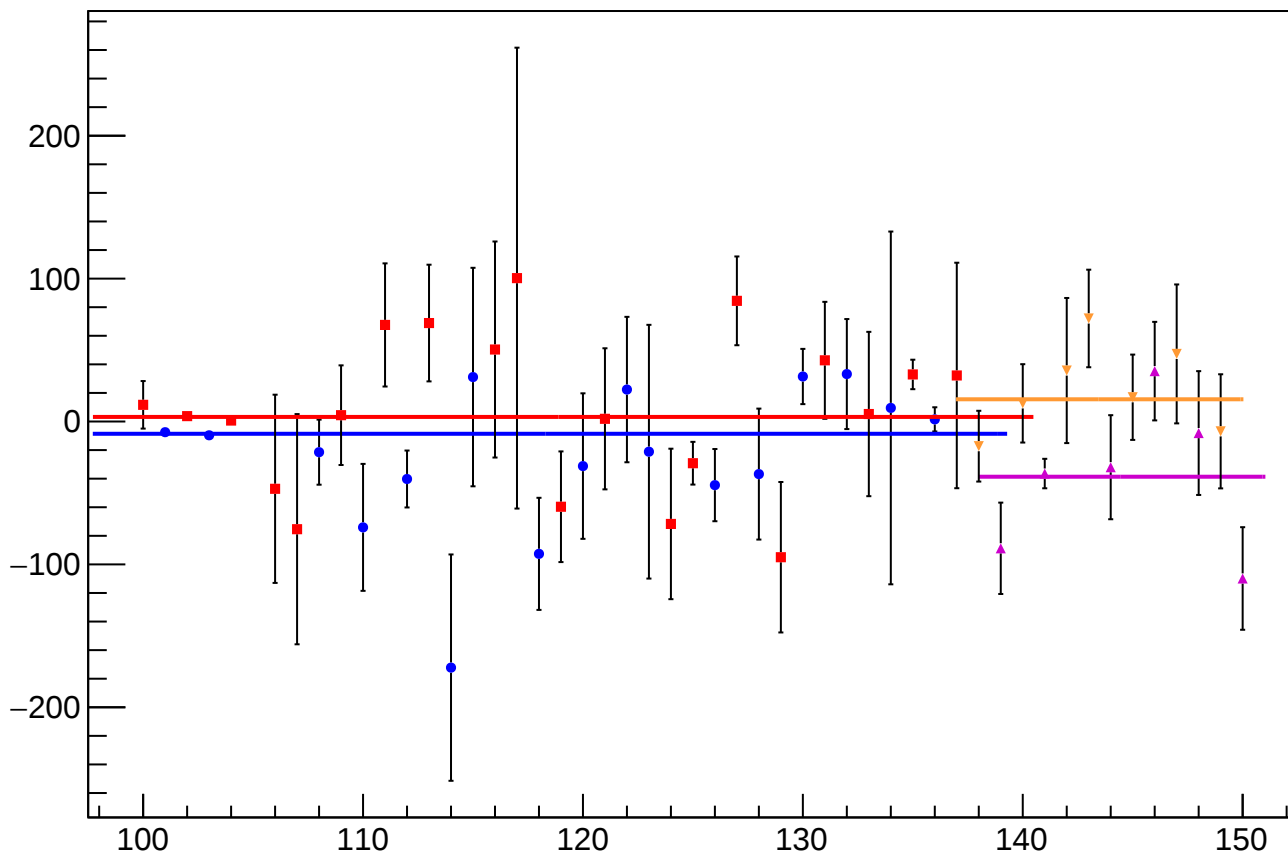
Right Out: 4455.114+/-1.970 χ^2/NDF : 7483602.5/19

Left In: 17610.283+/-7.518 χ^2/NDF : 2229340.9/5

5040.005+/-1.792 χ^2/NDF : 12208812.3/23

5300.658+/-1.906 χ^2/NDF : 12578227.2/25

diff_bpm0l03Y_mean vs Slug



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

Left Out: 15.553 ± 12.521 χ^2/NDF : 5.4/6

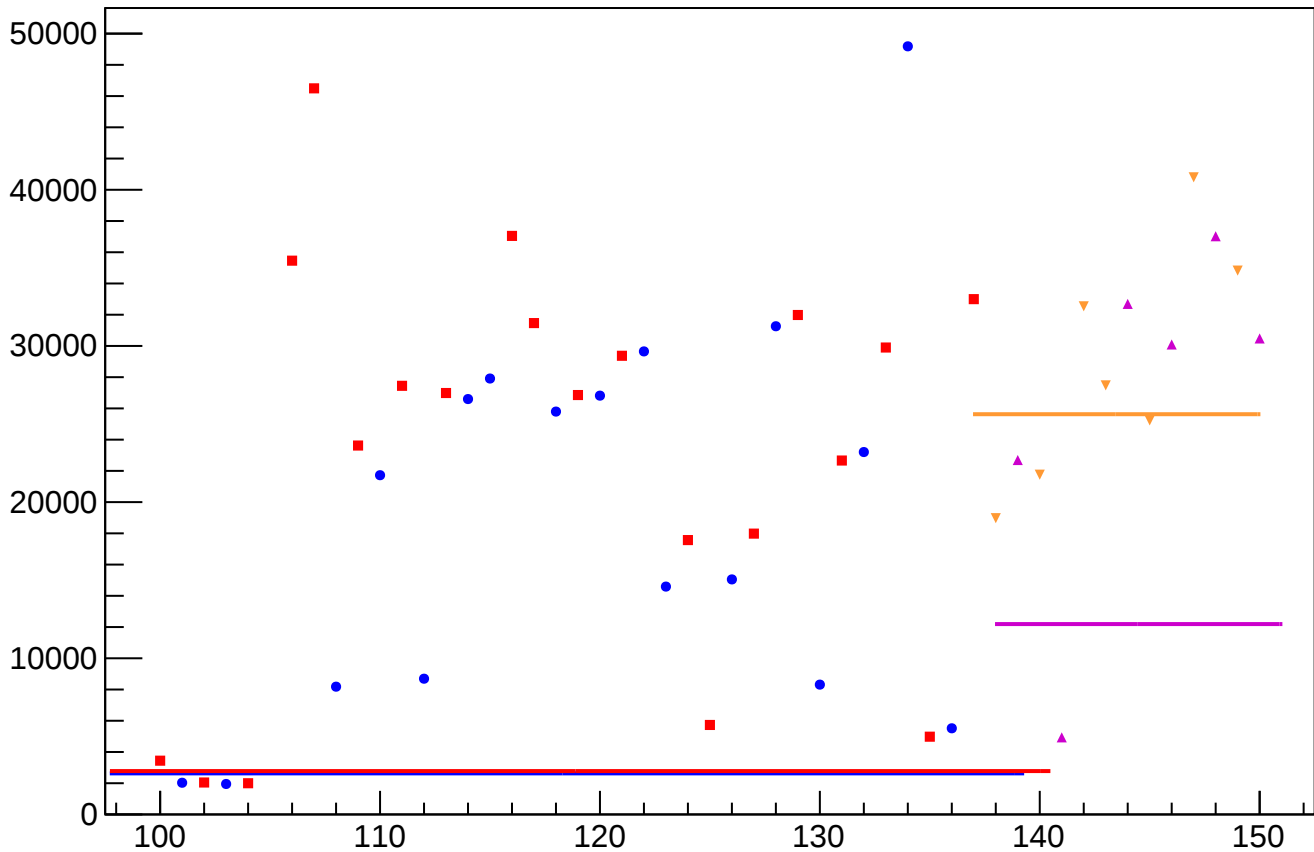
Right Out: 3.208 ± 1.922 χ^2/NDF : 37.2/19

Left In: -38.639 ± 8.675 χ^2/NDF : 11.6/5

-8.109 ± 1.760 χ^2/NDF : 33.5/23

1.250 ± 1.877 χ^2/NDF : 71.0/25

diff_bpm0l03Y_rms vs Slug



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

Left Out: 25629.052+/-8.854 χ^2/NDF : 528420.7/6

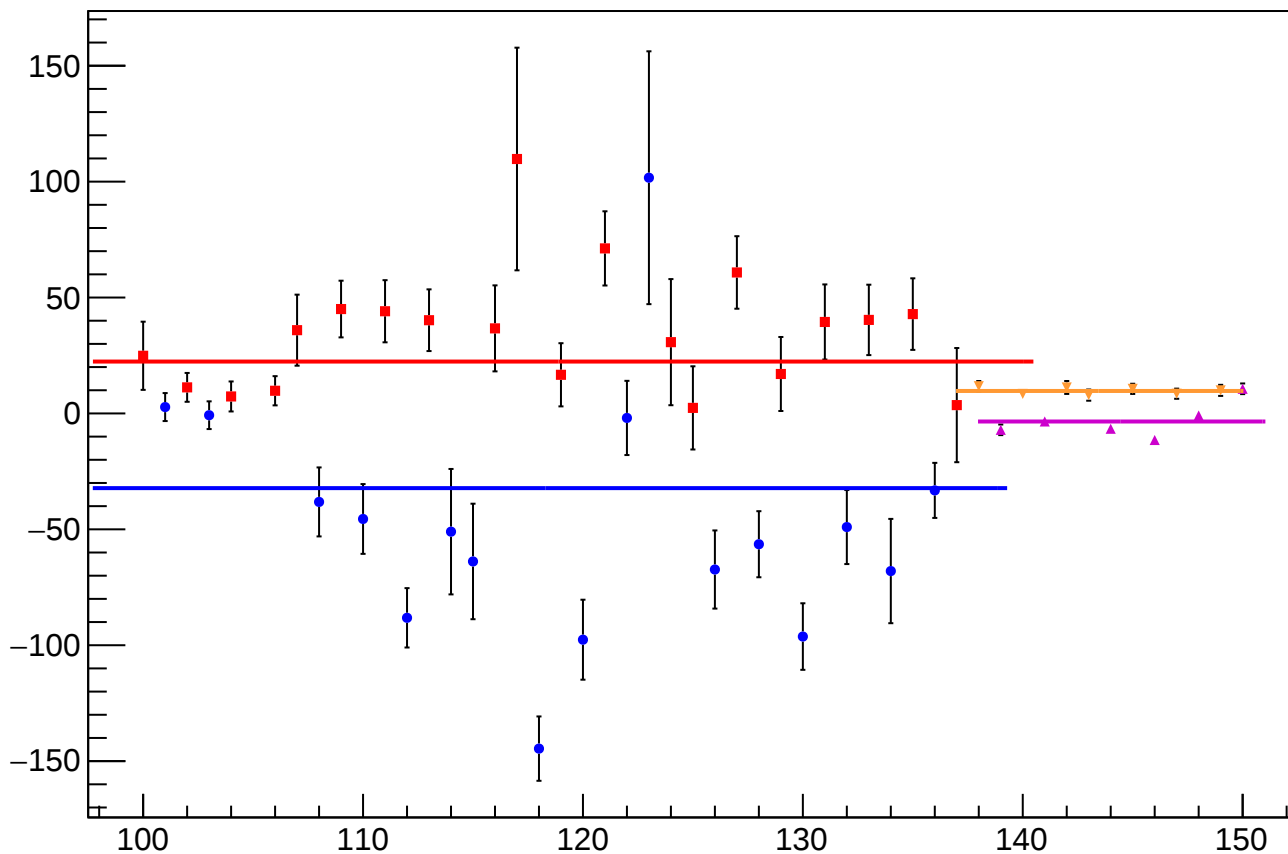
Right Out: 2777.521+/-1.359 χ^2/NDF : 7899165.0/19

Left In: 12190.809+/-6.134 χ^2/NDF : 3555363.7/5

3085.023+/-1.245 χ^2/NDF : 12731916.0/23

3218.006+/-1.327 χ^2/NDF : 13699184.6/25

diff_bpm0l04X_mean vs Slug



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

Left Out: 9.693 ± 0.874 $\chi^2/\text{NDF}: 2.5/6$

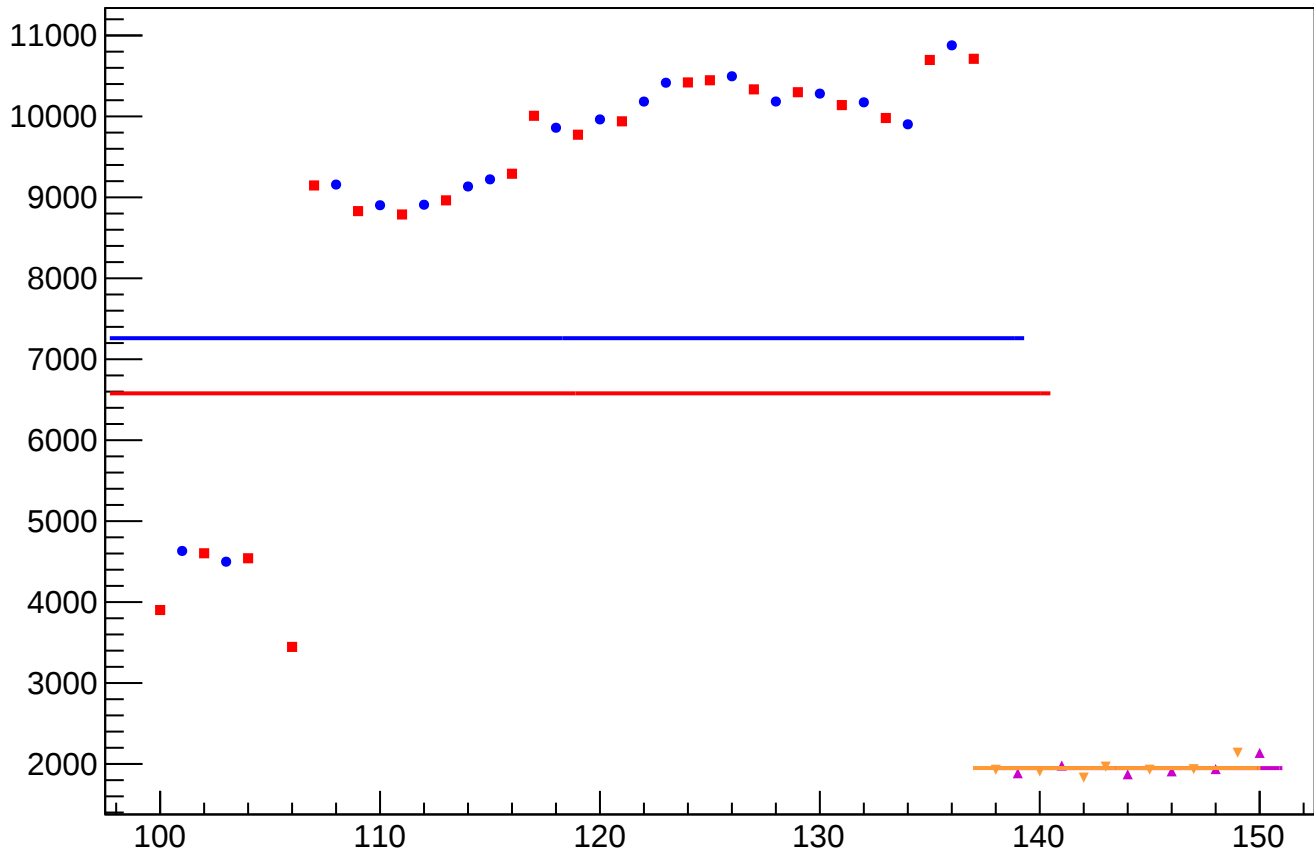
Right Out: 22.381 ± 2.665 $\chi^2/\text{NDF}: 47.0/19$

Left In: -3.481 ± 0.884 $\chi^2/\text{NDF}: 58.3/5$

6.373 ± 0.839 $\chi^2/\text{NDF}: 388.2/23$

-0.918 ± 0.839 $\chi^2/\text{NDF}: 190.1/25$

diff_bpm0l04X_rms vs Slug



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

Left Out: 1949.659+/-0.618 χ^2/NDF :17554.0/6

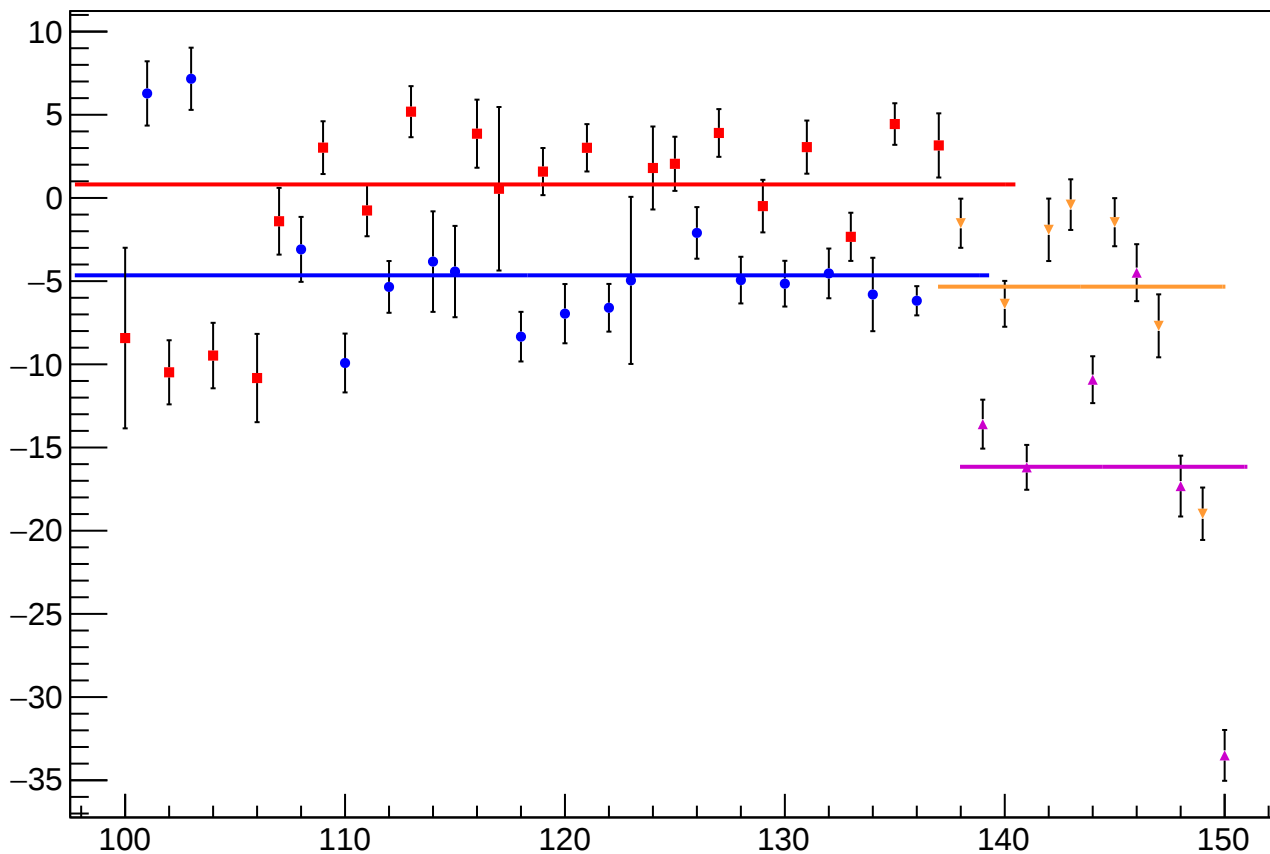
2370.309+/-0.593 χ^2/NDF : 7496546.5/23

Right Out: 6578.773+/-1.885 χ^2/NDF : 2206772.9/19

2407.818+/-0.593 χ^2/NDF : 7662819.2/25

Left In: 1949.009+/-0.625 χ^2/NDF :18949.6/5

diff_bpm0l04Y_mean vs Slug



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

Left Out: -5.331 ± 0.591 χ^2/NDF : 104.8/6

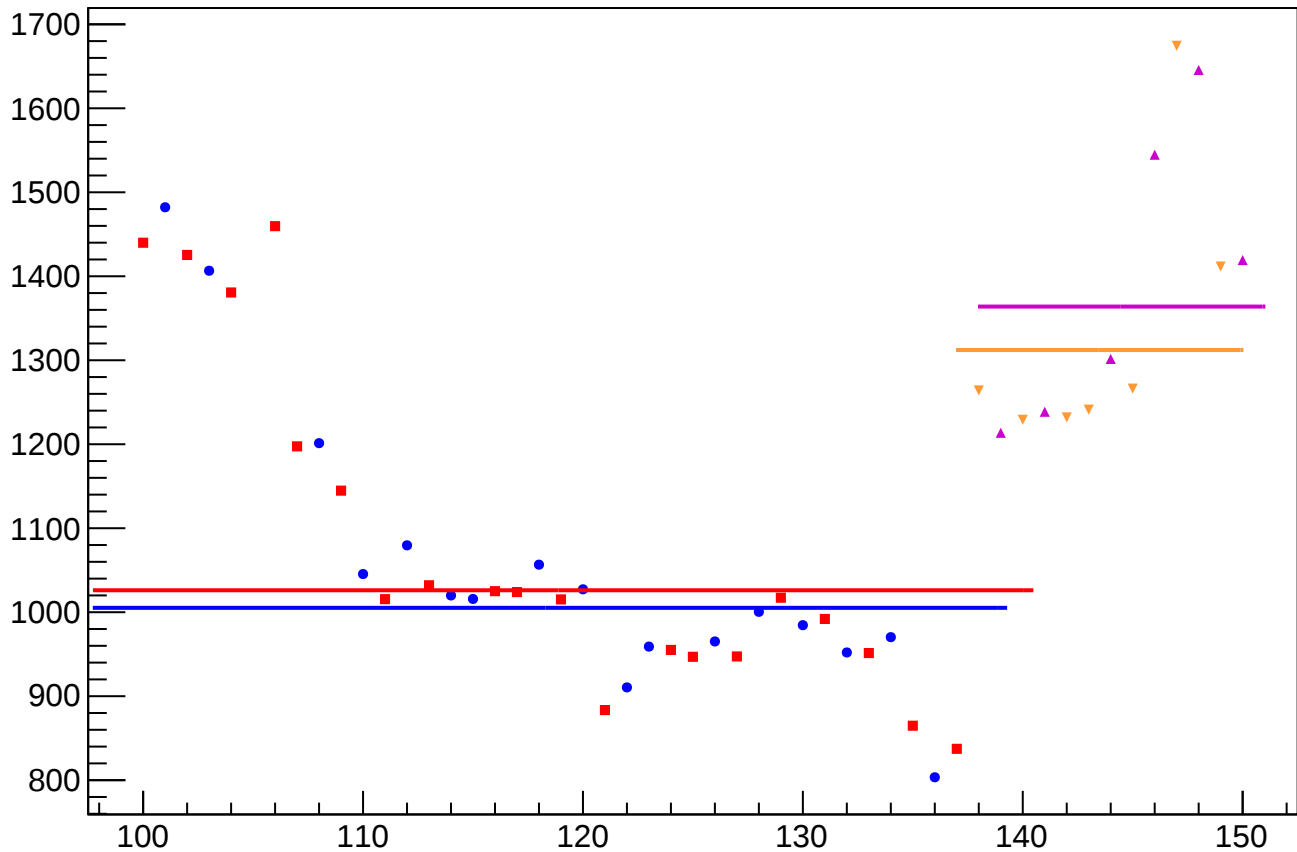
Right Out: 0.813 ± 0.387 χ^2/NDF : 123.7/19

Left In: -16.158 ± 0.622 χ^2/NDF : 192.7/5

-4.859 ± 0.327 χ^2/NDF : 203.3/23

-3.930 ± 0.329 χ^2/NDF : 853.0/25

diff_bpm0l04Y_rms vs Slug



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

Left Out: 1312.182+/-0.418 χ^2/NDF : 100674.4/6

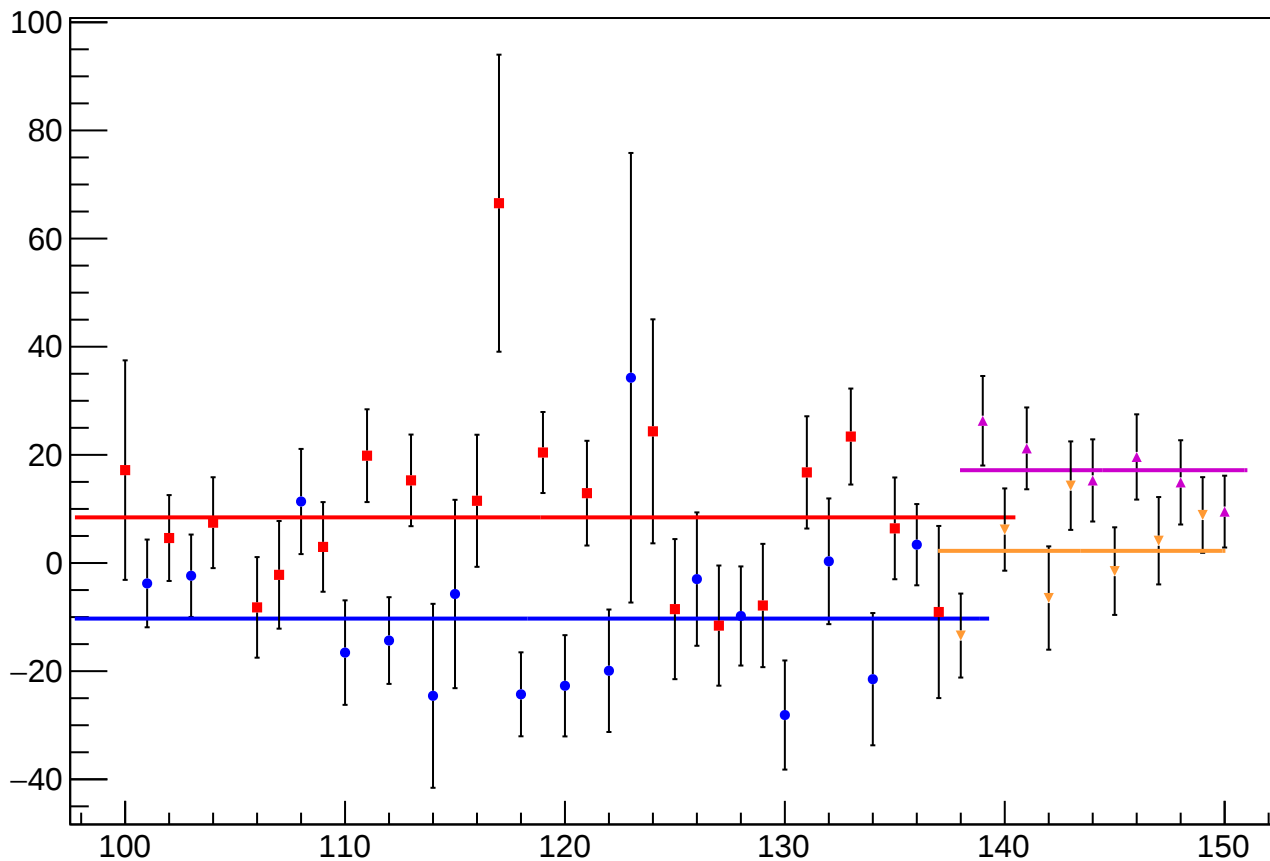
Right Out: 1026.145+/-0.274 χ^2/NDF : 333119.4/19

Left In: 1363.920+/-0.440 χ^2/NDF : 114504.5/5

1099.180+/-0.231 χ^2/NDF : 836787.7/23

1120.541+/-0.232 χ^2/NDF : 872766.6/25

diff_bpm0l05X_mean vs Slug



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

Left Out: 2.249 ± 3.005 $\chi^2/\text{NDF}: 8.5/6$

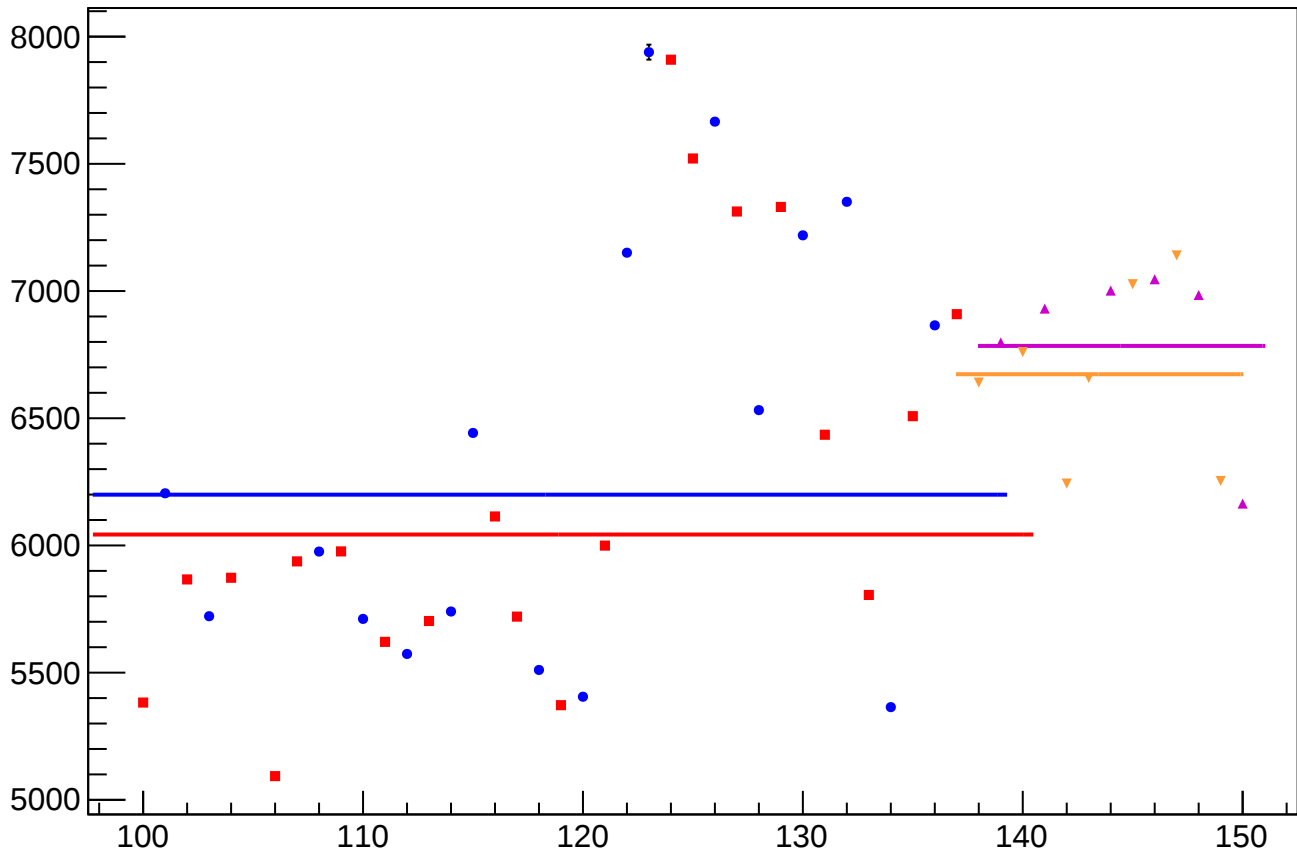
Right Out: 8.441 ± 2.271 $\chi^2/\text{NDF}: 27.3/19$

Left In: 17.164 ± 3.092 $\chi^2/\text{NDF}: 3.1/5$

-5.379 ± 1.879 $\chi^2/\text{NDF}: 42.6/23$

11.497 ± 1.830 $\chi^2/\text{NDF}: 35.5/25$

diff_bpm0l05X_rms vs Slug



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

Left Out: 6673.034 $\pm$ 2.125 χ^2/NDF : 22045.7/6

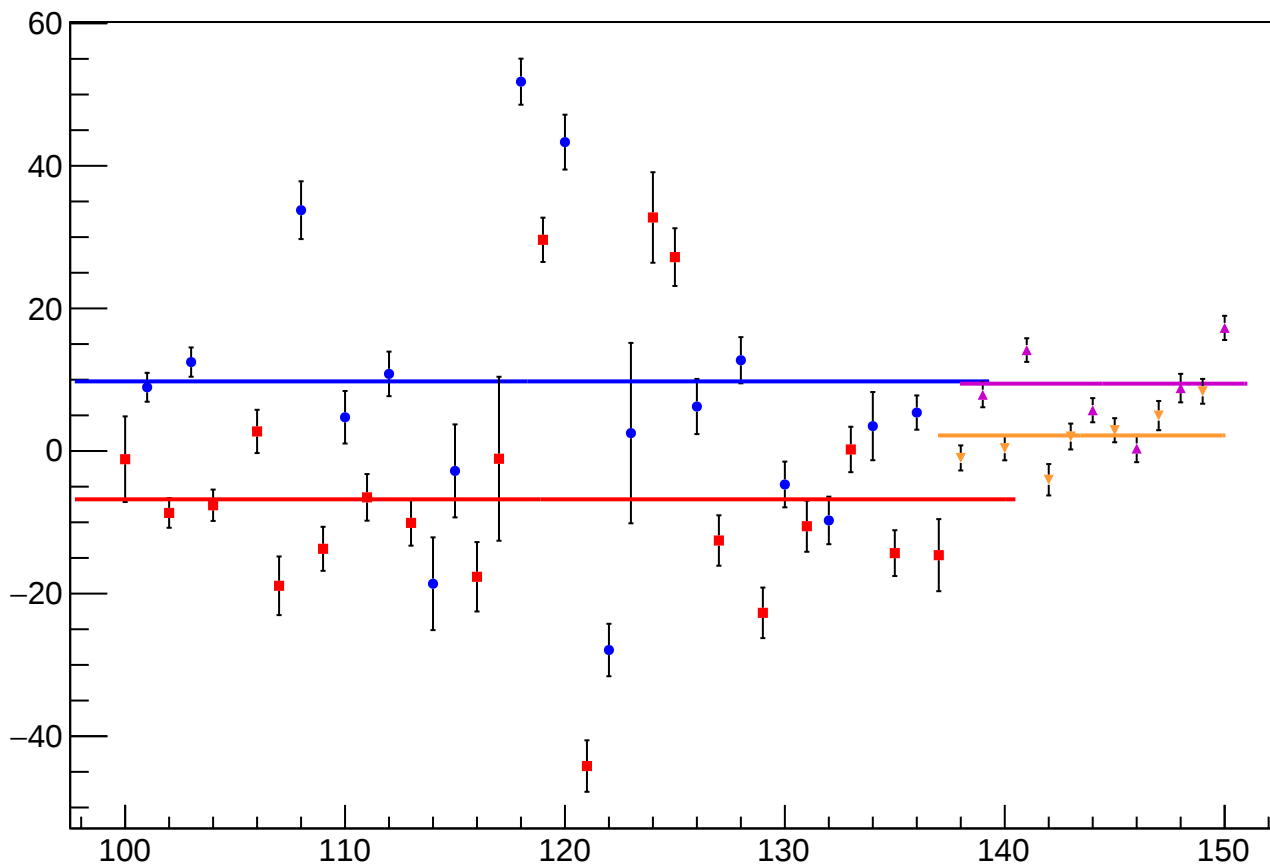
Right Out: 6042.952 $\pm$ 1.606 χ^2/NDF : 158600.9/19

Left In: 6784.311 $\pm$ 2.186 χ^2/NDF : 23327.8/5

6384.735 $\pm$ 1.329 χ^2/NDF : 224038.7/23

6302.671 $\pm$ 1.294 χ^2/NDF : 256620.5/25

diff_bpm0l05Y_mean vs Slug



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

Left Out: 2.180+/-0.691 χ^2/NDF : 27.0/6

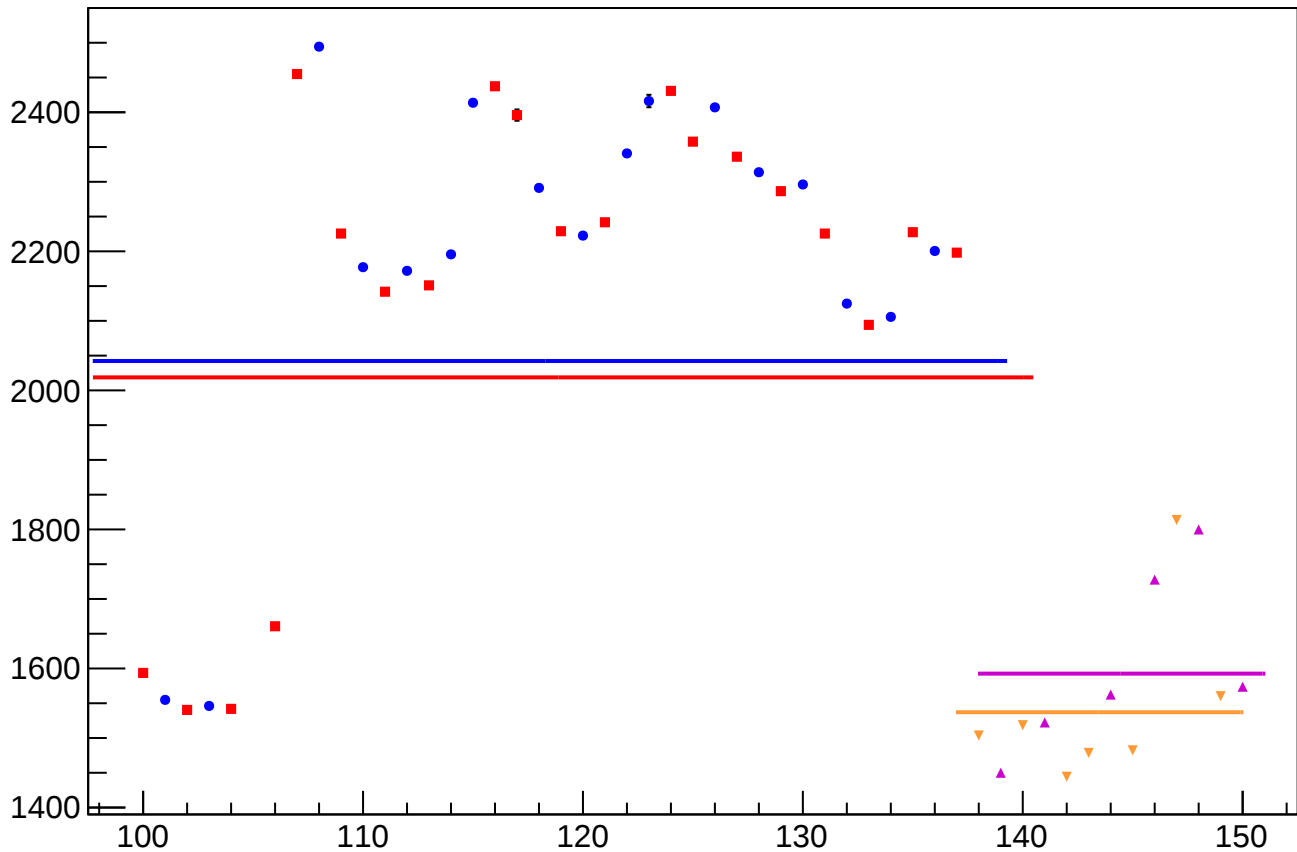
Right Out: -6.776+/-0.763 χ^2/NDF : 422.1/19

Left In: 9.445+/-0.724 χ^2/NDF : 57.6/5

5.434+/-0.522 χ^2/NDF : 552.5/23

1.758+/-0.525 χ^2/NDF : 717.4/25

diff_bpm0l05Y_rms vs Slug



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

Left Out: 1537.071 $\pm$ 0.488 χ^2 /NDF: 45419.5/6

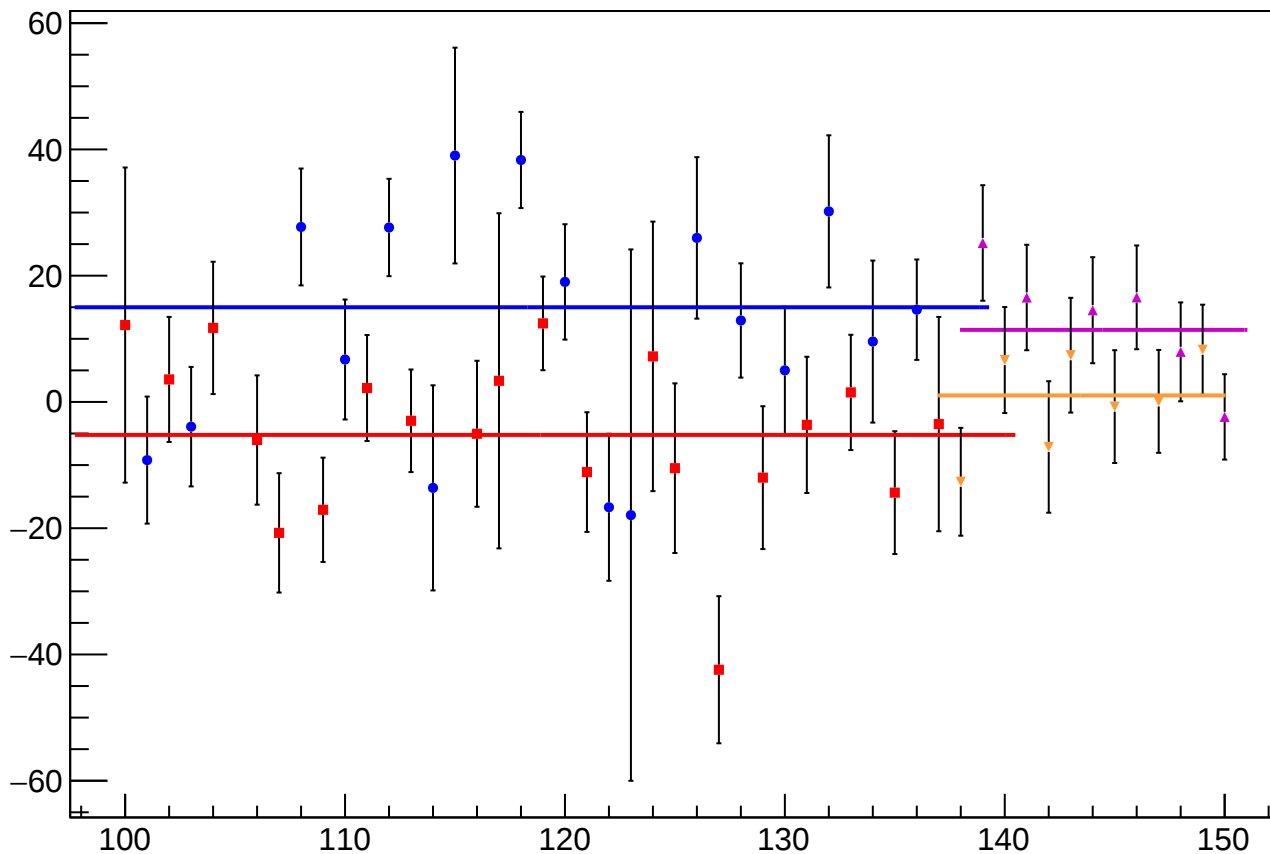
Right Out: 2018.694 $\pm$ 0.540 χ^2 /NDF: 377792.4/19

Left In: 1592.605 $\pm$ 0.512 χ^2 /NDF: 49087.0/5

1753.807 $\pm$ 0.369 χ^2 /NDF: 861260.9/23

1794.520 $\pm$ 0.371 χ^2 /NDF: 754961.0/25

diff_bpm0l06X_mean vs Slug



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

Left Out: 1.031 ± 3.220 $\chi^2/\text{NDF}: 5.2/6$

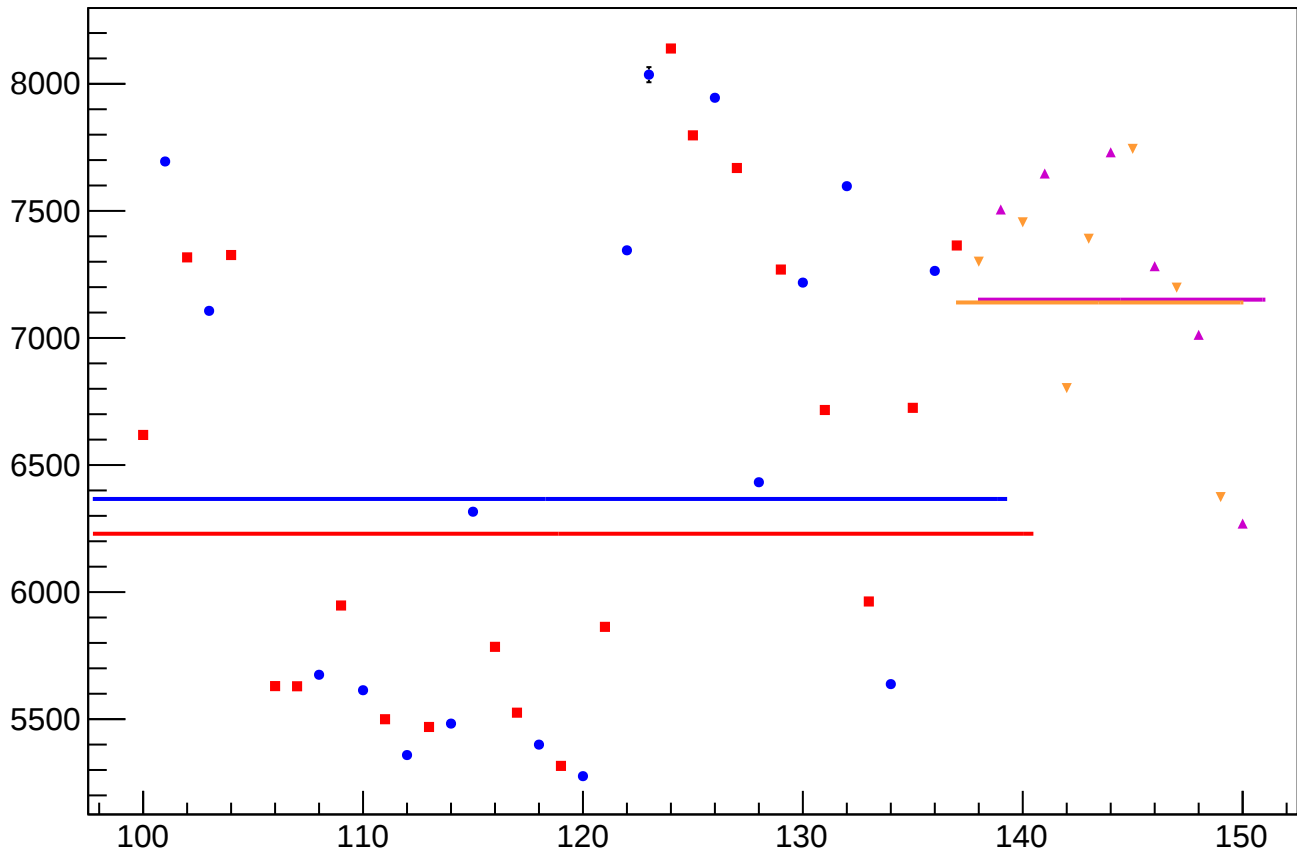
Right Out: -5.223 ± 2.348 $\chi^2/\text{NDF}: 28.2/19$

Left In: 11.416 ± 3.271 $\chi^2/\text{NDF}: 7.5/5$

9.782 ± 1.967 $\chi^2/\text{NDF}: 58.3/23$

0.435 ± 1.908 $\chi^2/\text{NDF}: 52.8/25$

diff_bpm0l06X_rms vs Slug



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

Left Out: 7139.702+/-2.277 χ^2/NDF : 39461.4/6

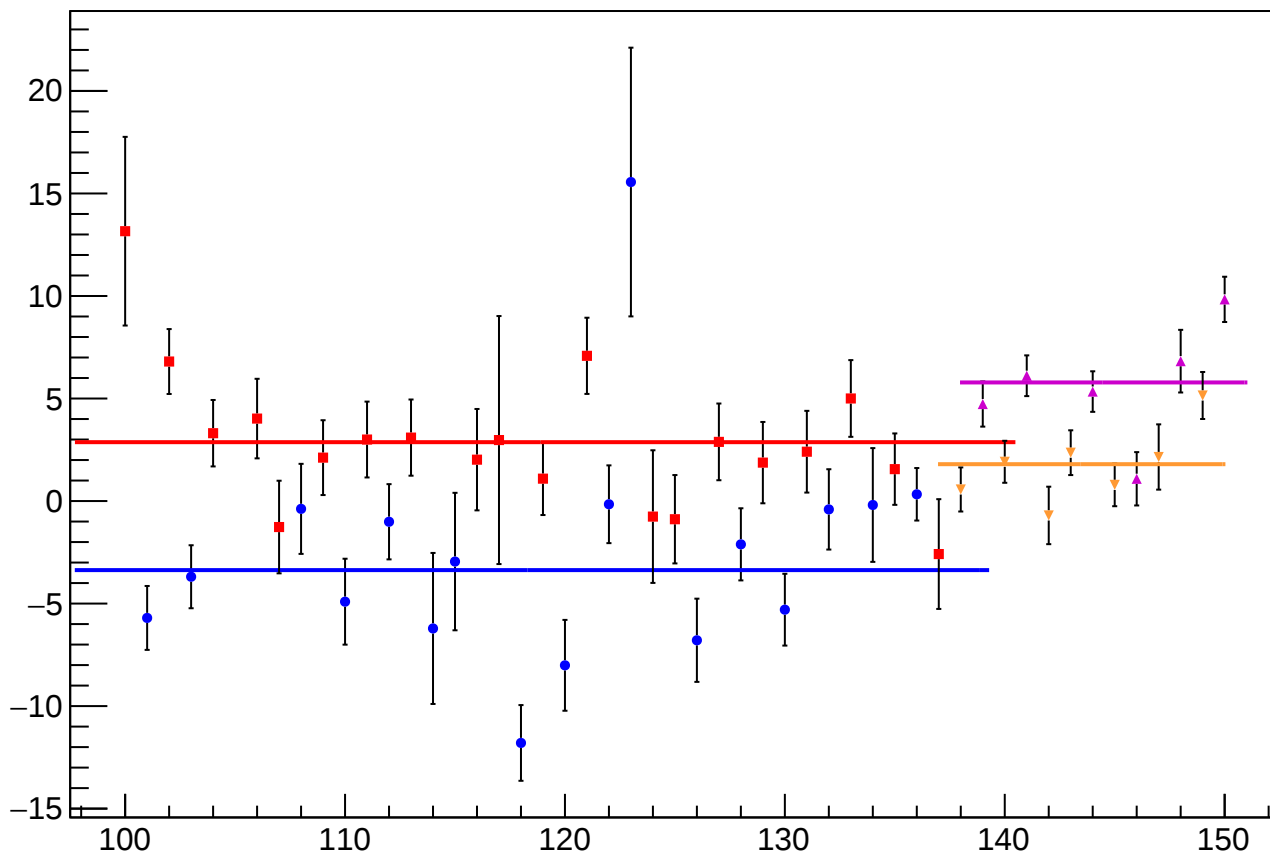
Right Out: 6229.625+/-1.660 χ^2/NDF : 244622.7/19

Left In: 7150.779+/-2.313 χ^2/NDF : 54725.3/5

6655.197+/-1.391 χ^2/NDF : 398236.6/23

6542.873+/-1.349 χ^2/NDF : 404012.6/25

diff_bpm0l06Y_mean vs Slug



Right In: -3.368 ± 0.476 $\chi^2/\text{NDF}: 59.9/16$

Left Out: 1.798 ± 0.437 $\chi^2/\text{NDF}: 14.3/6$

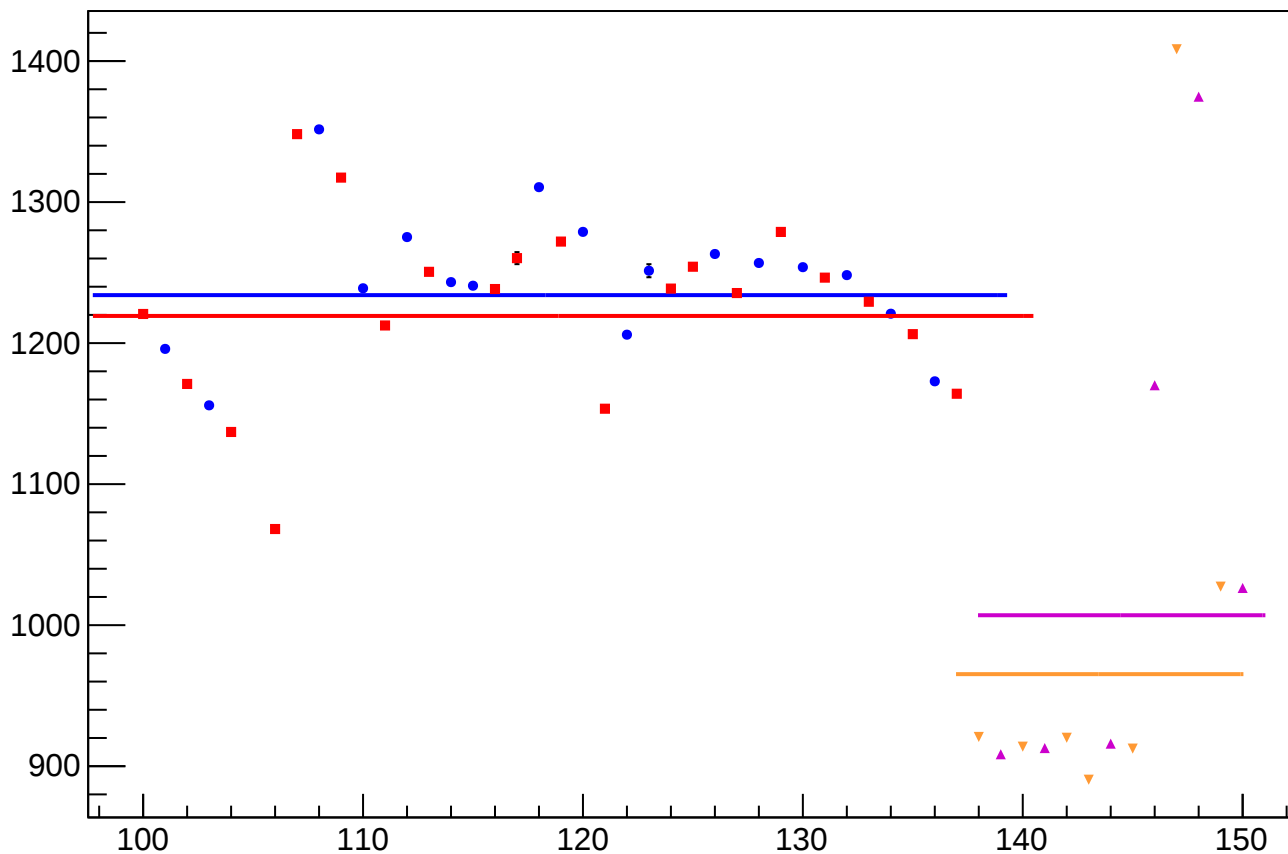
Right Out: 2.871 ± 0.455 $\chi^2/\text{NDF}: 32.0/19$

Left In: 5.784 ± 0.461 $\chi^2/\text{NDF}: 28.2/5$

-0.566 ± 0.322 $\chi^2/\text{NDF}: 138.2/23$

4.308 ± 0.324 $\chi^2/\text{NDF}: 80.5/25$

diff_bpm0l06Y_rms vs Slug



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

Left Out: 965.269 $\pm$ 0.309 χ^2 /NDF:185915.7/6

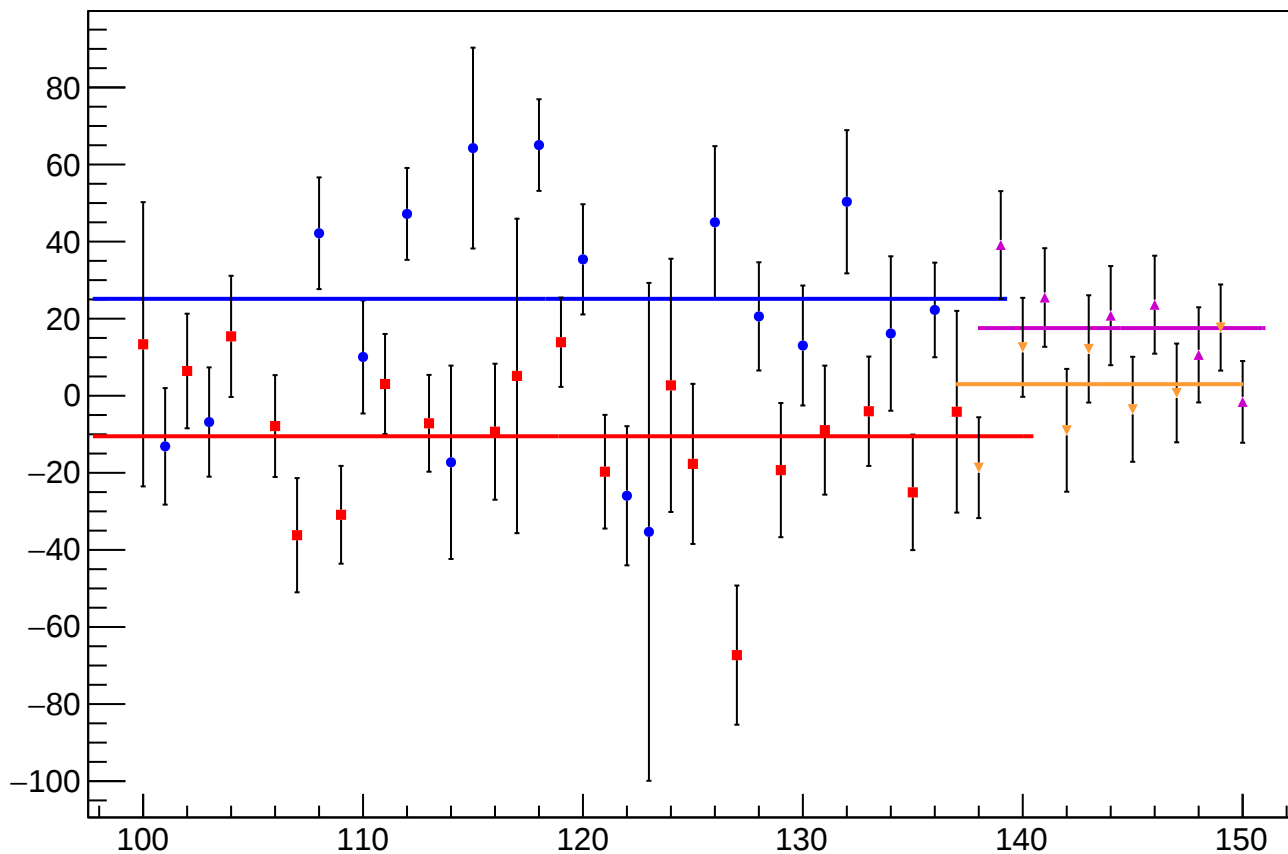
Right Out: 1219.275 $\pm$ 0.322 χ^2 /NDF: 40462.8/19

Left In: 1007.036 $\pm$ 0.326 χ^2 /NDF:198926.1/5

1088.214 $\pm$ 0.227 χ^2 /NDF: 556108.1/23

1114.564 $\pm$ 0.229 χ^2 /NDF: 453981.9/25

diff_bpm0l07X_mean vs Slug



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

Left Out: 3.005 ± 4.969 χ^2/NDF : 6.3/6

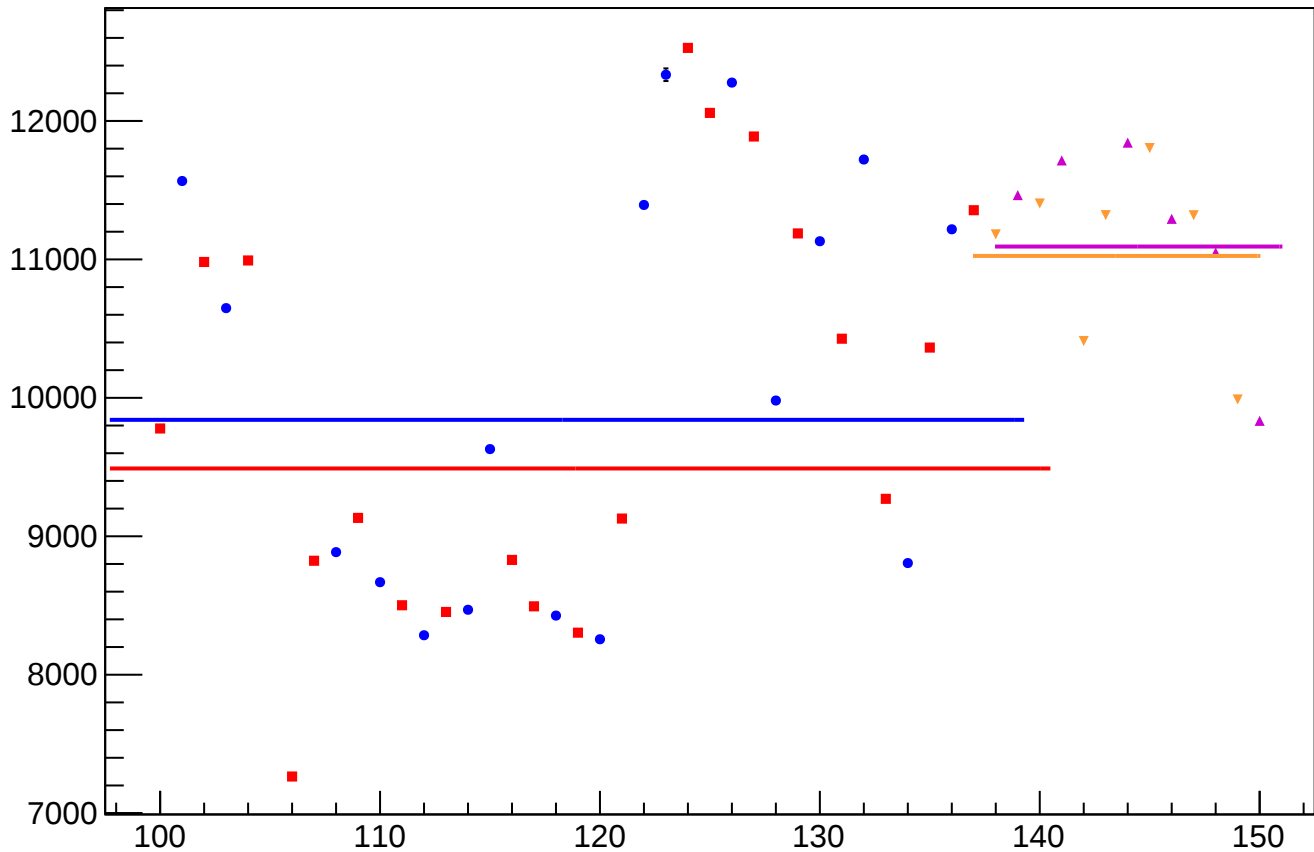
Right Out: -10.513 ± 3.581 χ^2/NDF : 27.8/19

Left In: 17.559 ± 5.069 χ^2/NDF : 6.6/5

16.877 ± 3.037 χ^2/NDF : 65.7/23

-1.167 ± 2.925 χ^2/NDF : 54.9/25

diff_bpm0l07X_rms vs Slug



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

Left Out: 11025.054+/-3.514 χ^2/NDF : 30704.9/6

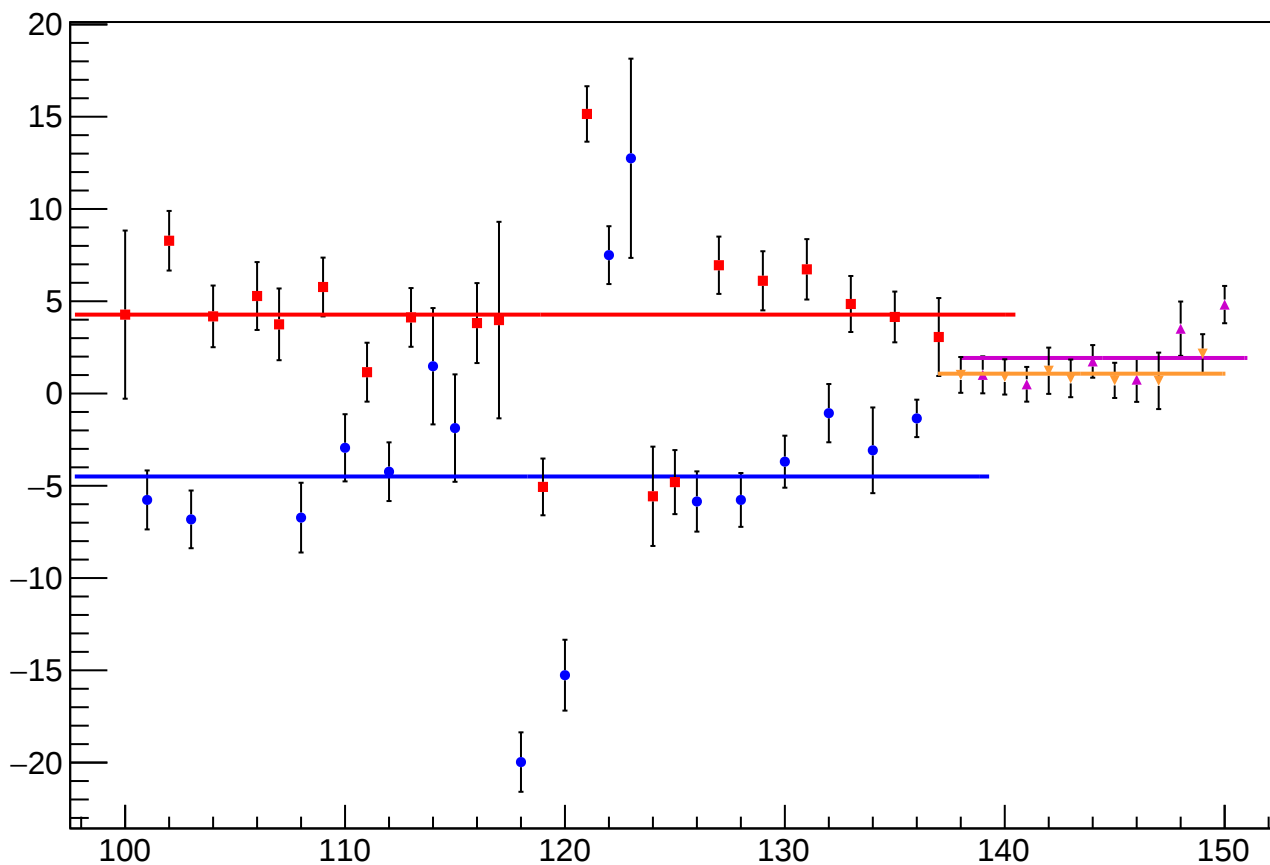
Right Out: 9489.753+/-2.532 χ^2/NDF : 277900.5/19

Left In: 11092.944+/-3.584 χ^2/NDF : 41664.7/5

10283.406+/-2.148 χ^2/NDF : 361875.4/23

10023.475+/-2.068 χ^2/NDF : 453031.3/25

diff_bpm0l07Y_mean vs Slug



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

Left Out: 1.075 ± 0.402 χ^2/NDF : 1.4/6

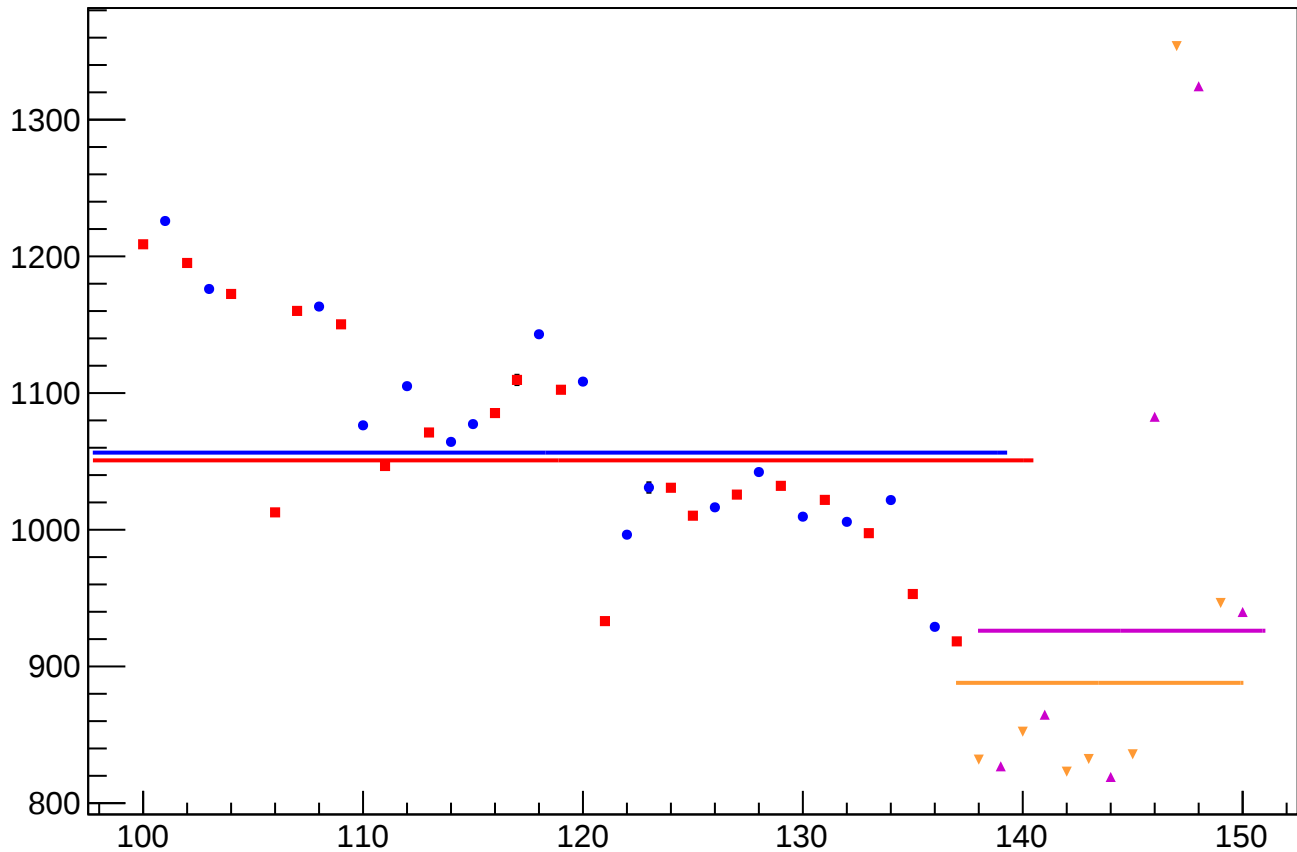
Right Out: 4.275 ± 0.393 χ^2/NDF : 148.2/19

Left In: 1.926 ± 0.425 χ^2/NDF : 13.5/5

-1.670 ± 0.287 χ^2/NDF : 314.3/23

3.193 ± 0.289 χ^2/NDF : 178.2/25

diff_bpm0l07Y_rms vs Slug



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

Left Out: 888.014 ± 0.284 χ^2/NDF : 218299.5/6

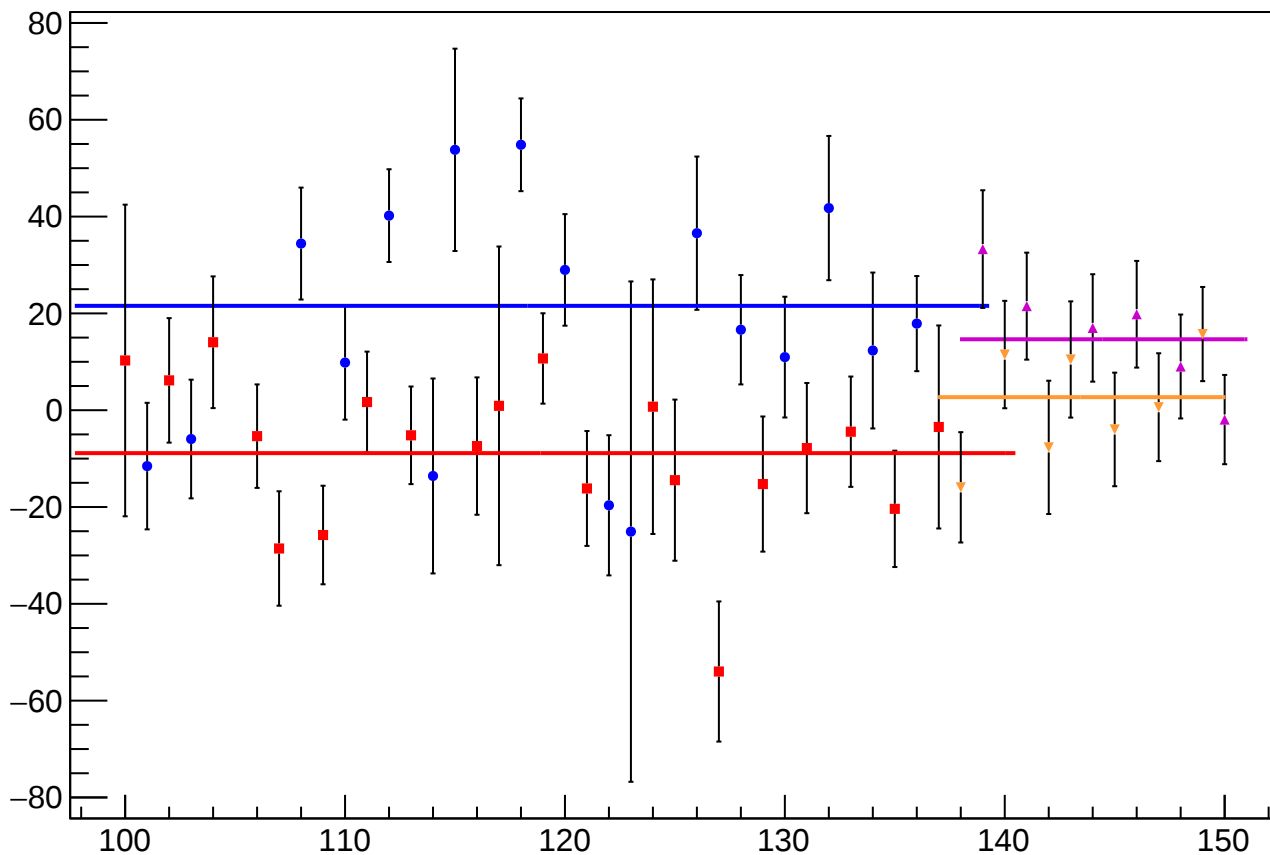
Right Out: 1050.765 ± 0.278 χ^2/NDF : 82642.2/19

Left In: 926.139 ± 0.301 χ^2/NDF : 237918.9/5

970.997 ± 0.203 χ^2/NDF : 481819.3/23

993.372 ± 0.204 χ^2/NDF : 413263.7/25

diff_bpm0l08X_mean vs Slug



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

Left Out: 2.695+/-4.307 χ^2/NDF : 6.4/6

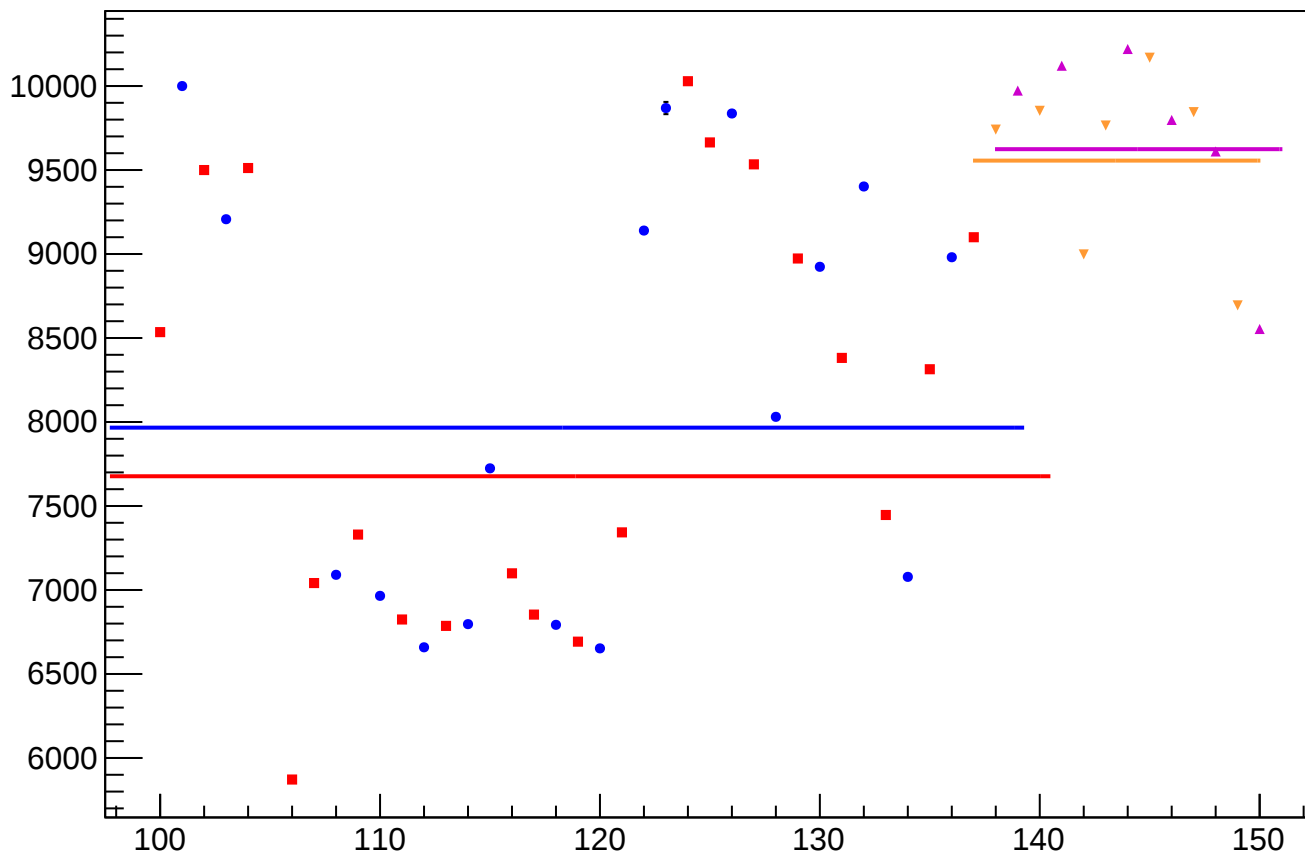
Right Out: -8.867+/-2.901 χ^2/NDF : 27.5/19

Left In: 14.653+/-4.396 χ^2/NDF : 6.5/5

15.094+/-2.521 χ^2/NDF : 67.4/23

-1.734+/-2.421 χ^2/NDF : 54.0/25

diff_bpm0l08X_rms vs Slug



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

Left Out: 9556.020+/-3.045 χ^2/NDF : 28332.9/6

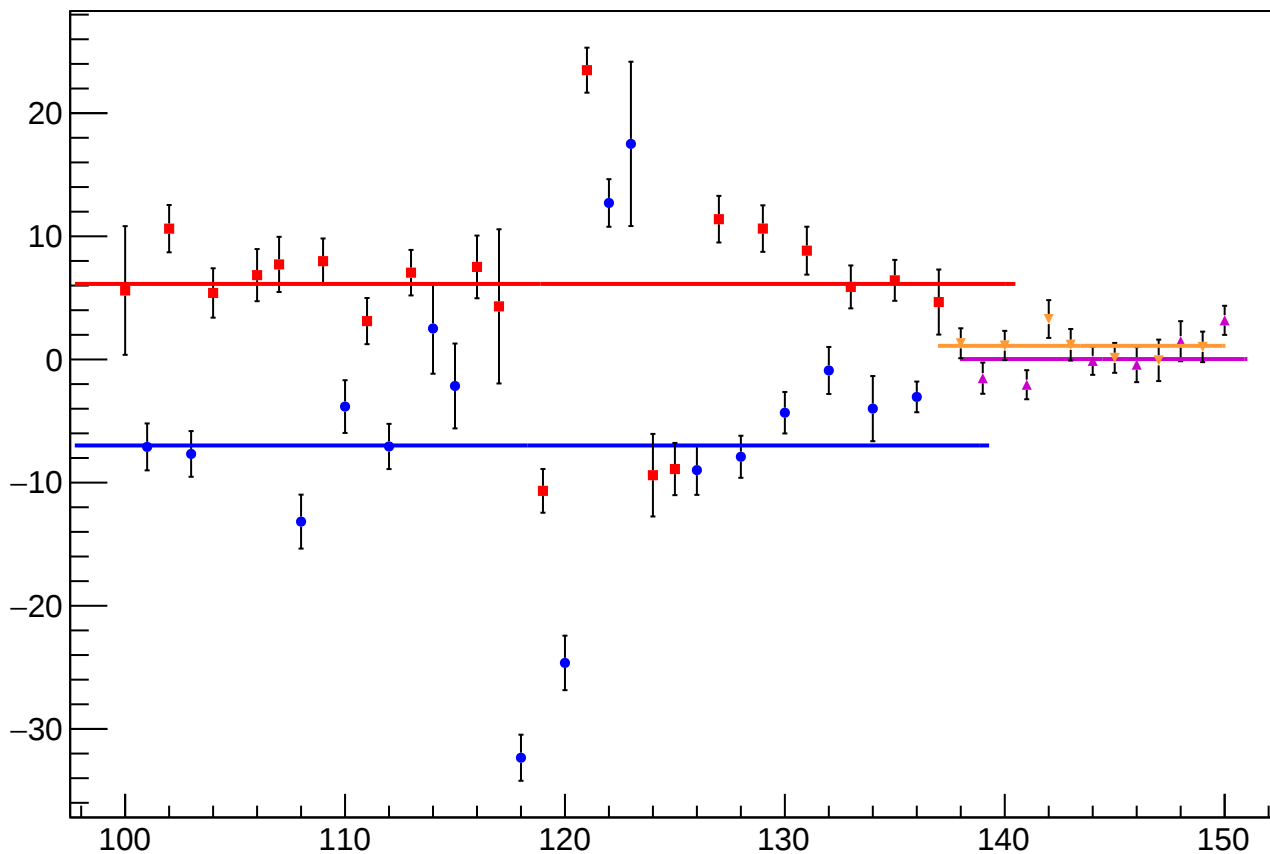
Right Out: 7677.035+/-2.051 χ^2/NDF : 316295.2/19

Left In: 9624.082+/-3.109 χ^2/NDF : 38901.5/5

8511.328+/-1.783 χ^2/NDF : 504020.3/23

8267.545+/-1.712 χ^2/NDF : 628519.3/25

diff_bpm0l08Y_mean vs Slug



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

Left Out: 1.107 ± 0.494 χ^2/NDF : 3.2/6

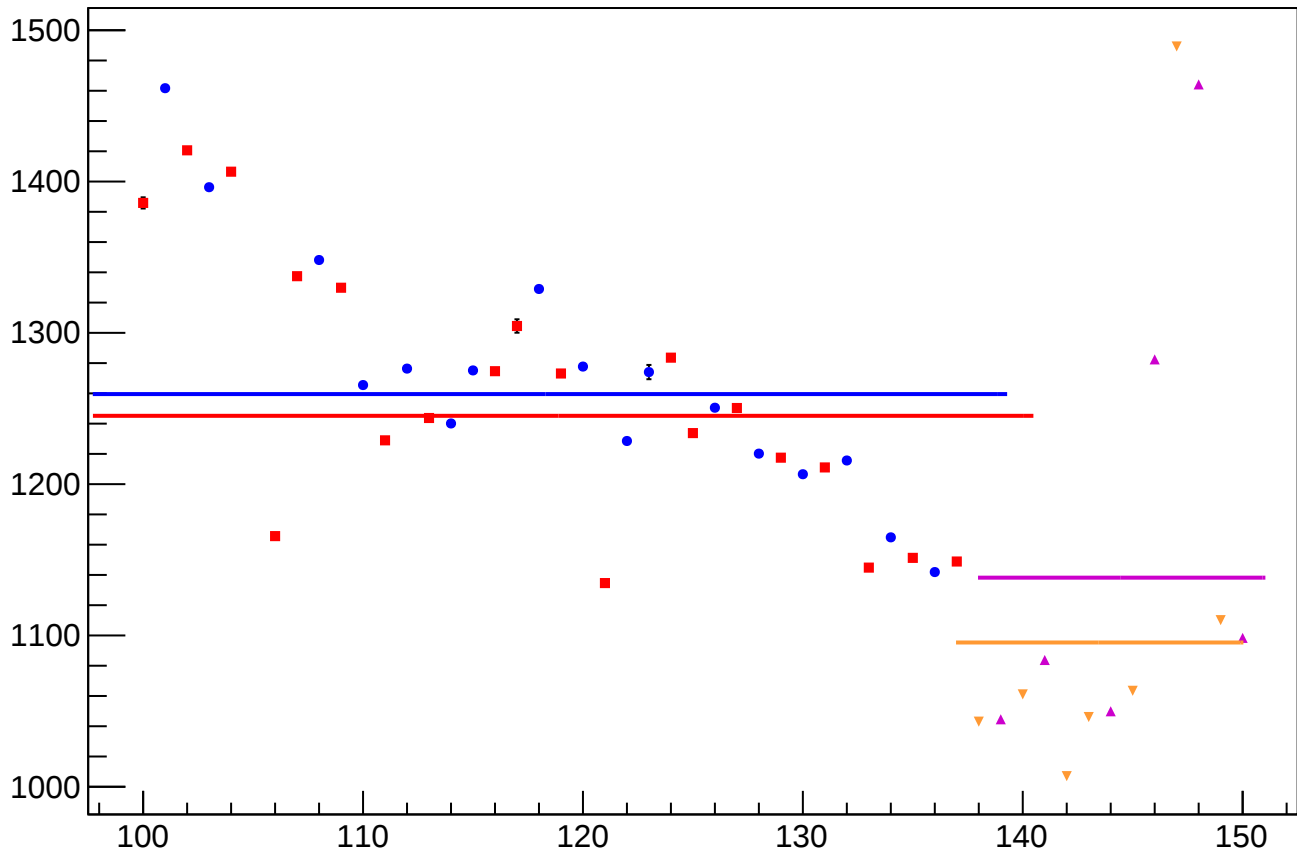
Right Out: 6.135 ± 0.465 χ^2/NDF : 277.6/19

Left In: 0.033 ± 0.519 χ^2/NDF : 12.6/5

-3.003 ± 0.347 χ^2/NDF : 548.0/23

3.417 ± 0.347 χ^2/NDF : 366.8/25

diff_bpm0l08Y_rms vs Slug



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

Left Out: 1095.354+/-0.349 χ^2/NDF :126185.1/6

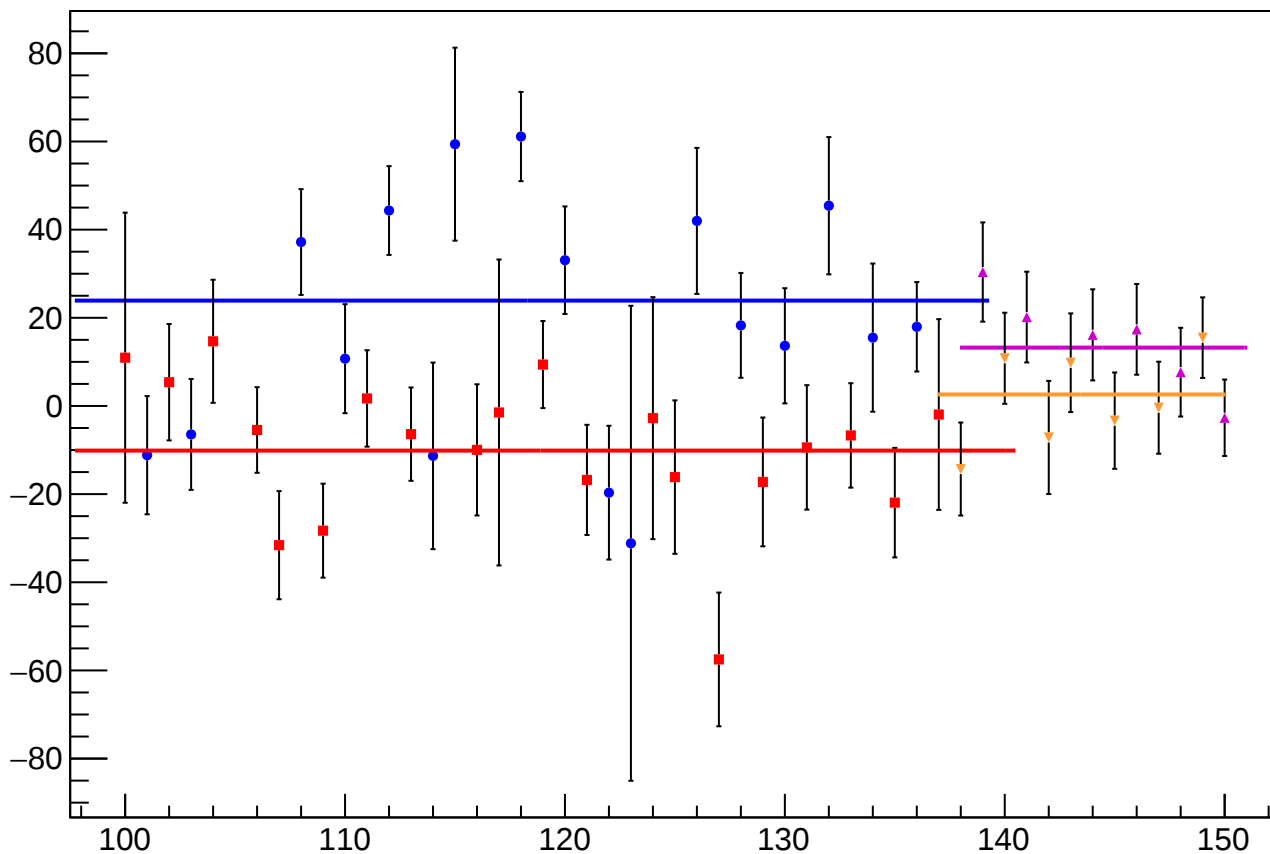
Right Out: 1245.167+/-0.329 χ^2/NDF : 67006.8/19

Left In: 1138.201+/-0.367 χ^2/NDF :130485.3/5

1178.747+/-0.245 χ^2/NDF : 303249.7/23

1197.531+/-0.245 χ^2/NDF : 244548.8/25

diff_bpm0l09X_mean vs Slug



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

Left Out: 2.607 ± 4.019 $\chi^2/\text{NDF}: 6.6/6$

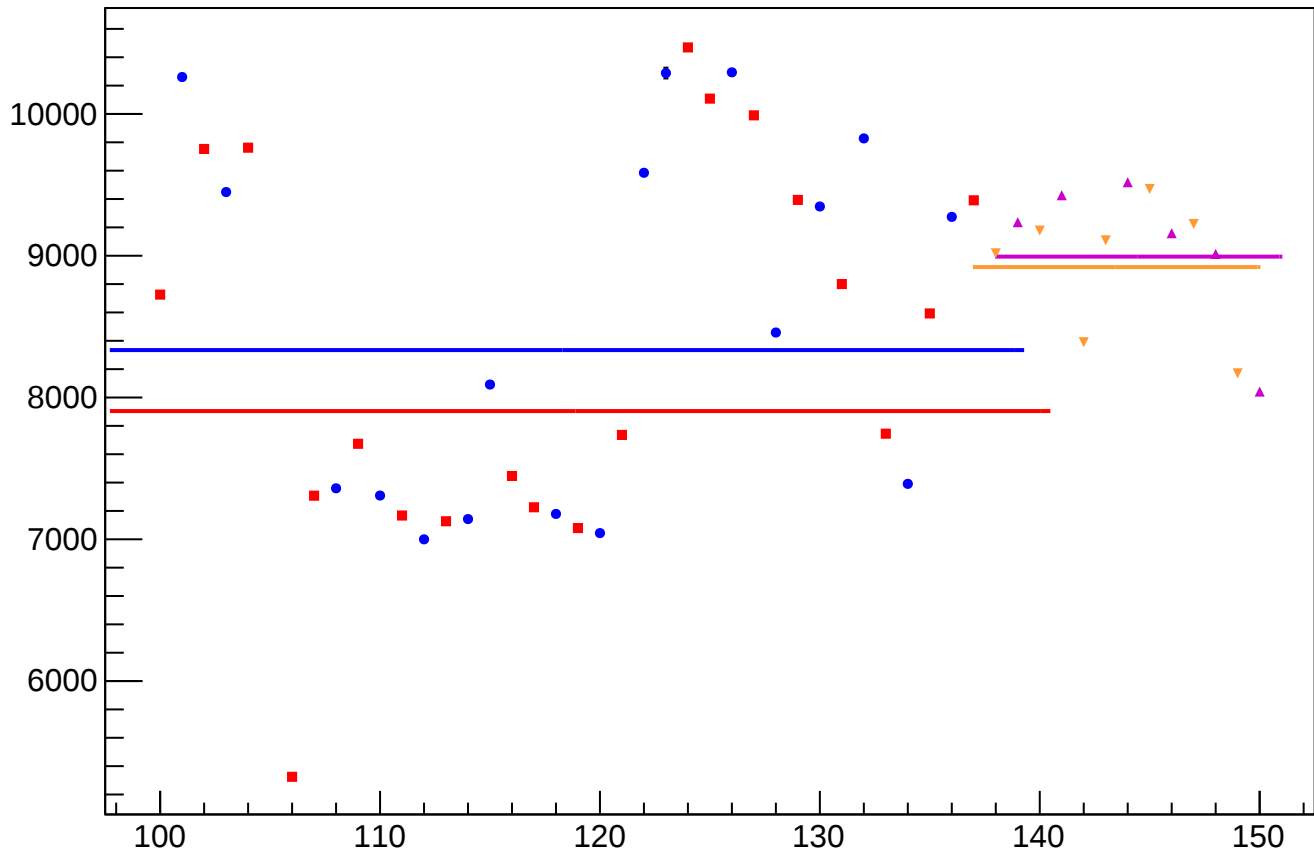
Right Out: -10.125 ± 2.994 $\chi^2/\text{NDF}: 28.0/19$

Left In: 13.239 ± 4.107 $\chi^2/\text{NDF}: 6.7/5$

15.482 ± 2.527 $\chi^2/\text{NDF}: 76.0/23$

-2.015 ± 2.419 $\chi^2/\text{NDF}: 55.8/25$

diff_bpm0l09X_rms vs Slug



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

Left Out: 8919.982 $\pm$ 2.842 χ^2 /NDF:25617.5/6

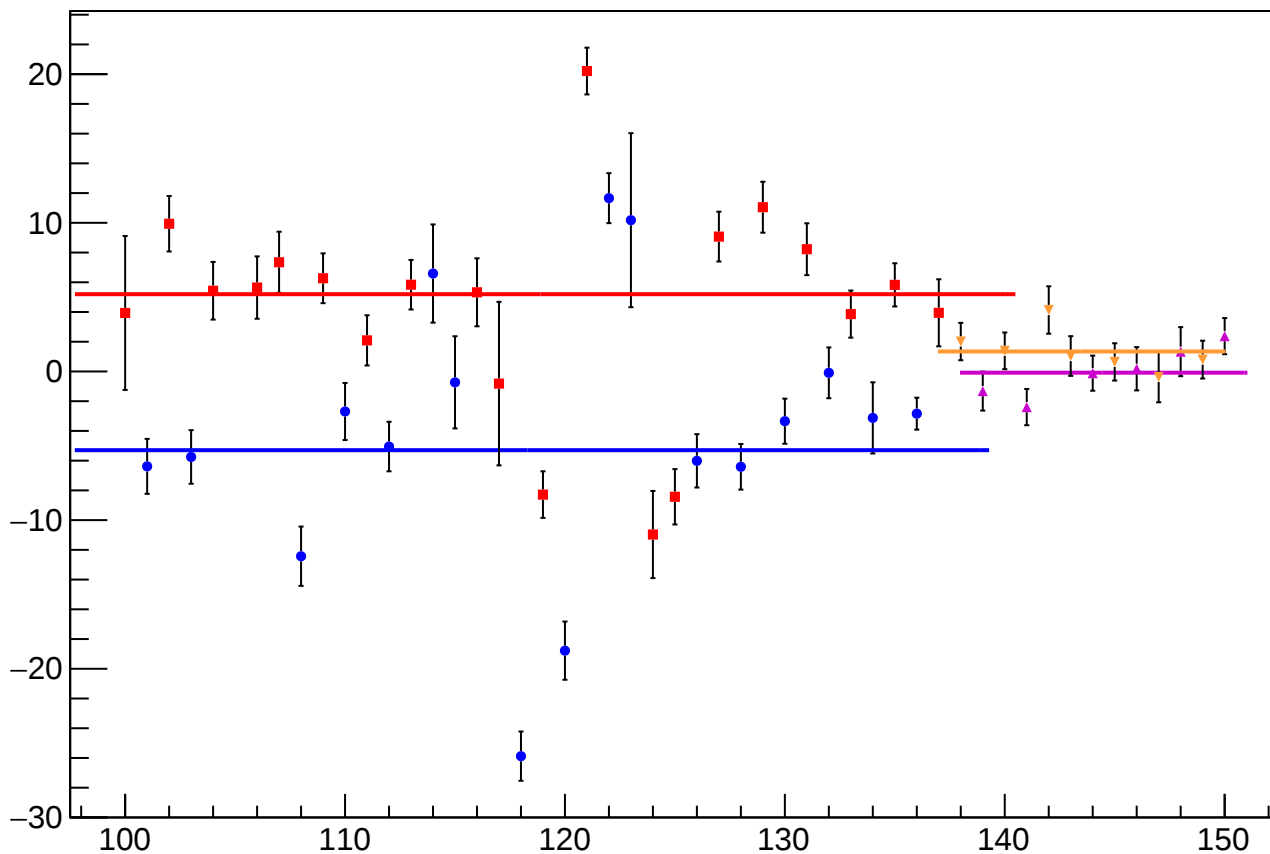
Right Out: 7904.529 $\pm$ 2.117 χ^2 /NDF: 391589.9/19

Left In: 8993.809 $\pm$ 2.904 χ^2 /NDF:34250.2/5

8566.039 $\pm$ 1.787 χ^2 /NDF: 323578.4/23

8282.635 $\pm$ 1.711 χ^2 /NDF: 517709.8/25

diff_bpm0l09Y_mean vs Slug



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

Left Out: 1.345+/-0.510 χ^2 /NDF: 4.9/6

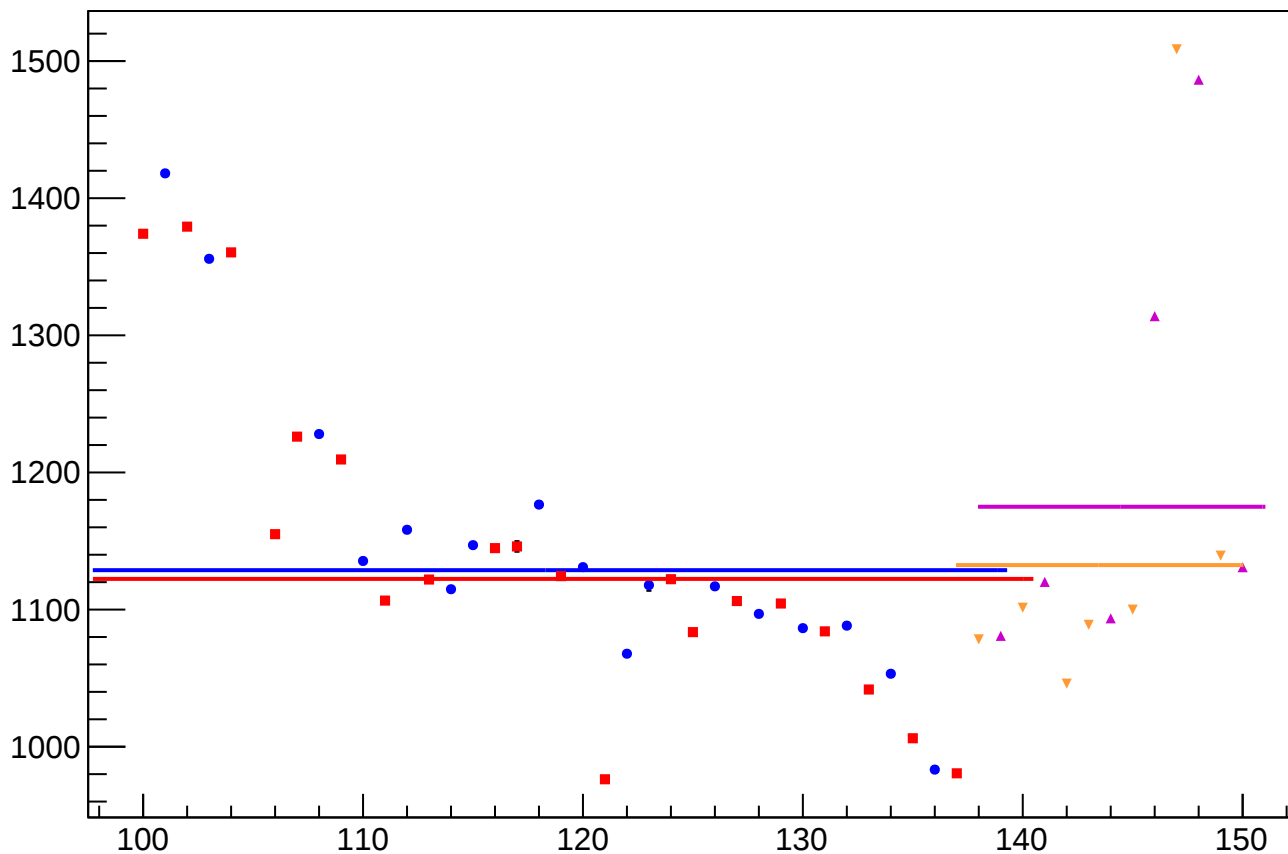
Right Out: 5.198+/-0.420 χ^2 /NDF: 283.1/19

Left In: -0.081+/-0.536 χ^2 /NDF: 9.4/5

-2.487+/-0.332 χ^2 /NDF: 460.8/23

3.186+/-0.331 χ^2 /NDF: 352.5/25

diff_bpm0l09Y_rms vs Slug



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

Left Out: 1132.444 $\pm$ 0.361 χ^2 /NDF:111750.4/6

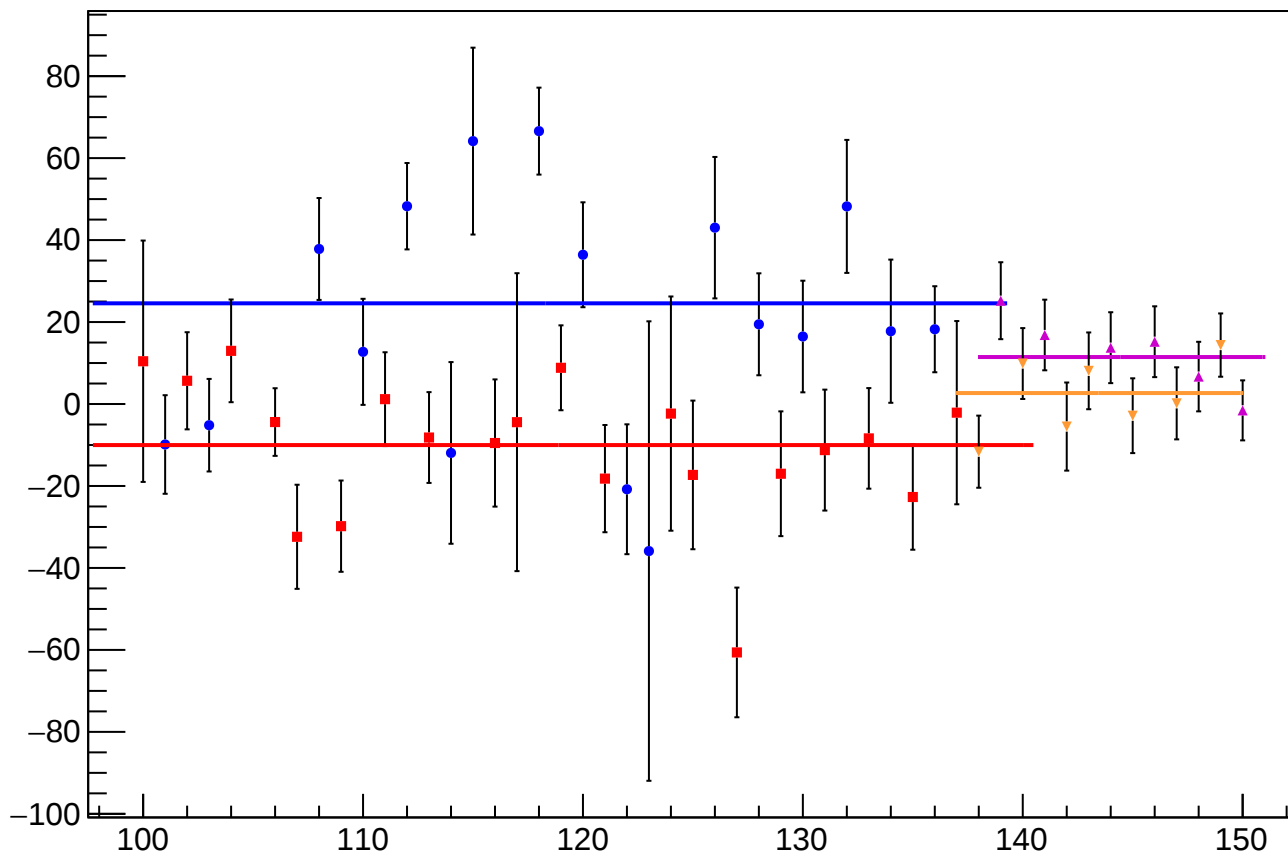
Right Out: 1122.377 $\pm$ 0.297 χ^2 /NDF: 129638.9/19

Left In: 1174.995 $\pm$ 0.379 χ^2 /NDF:115846.1/5

1130.307 $\pm$ 0.235 χ^2 /NDF: 244908.0/23

1142.435 $\pm$ 0.234 χ^2 /NDF: 257427.2/25

diff_bpm0l10X_mean vs Slug



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

Left Out: 2.675 ± 3.370 $\chi^2/\text{NDF}: 7.0/6$

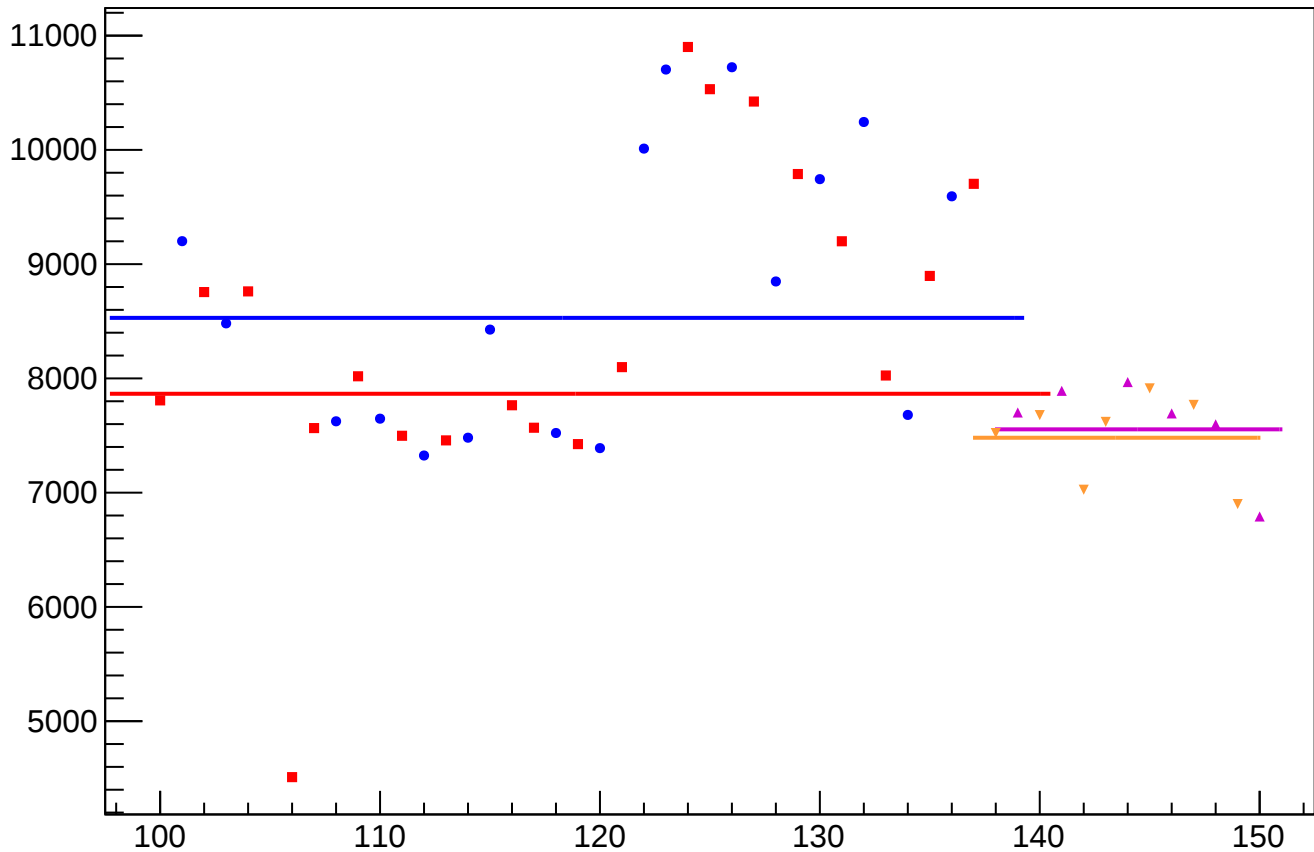
Right Out: -10.019 ± 2.997 $\chi^2/\text{NDF}: 28.8/19$

Left In: 11.462 ± 3.448 $\chi^2/\text{NDF}: 6.3/5$

13.790 ± 2.364 $\chi^2/\text{NDF}: 86.5/23$

-0.773 ± 2.262 $\chi^2/\text{NDF}: 57.2/25$

diff_bpm0l10X_rms vs Slug



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

Left Out: 7480.635+/-2.383 χ^2/NDF : 23041.4/6

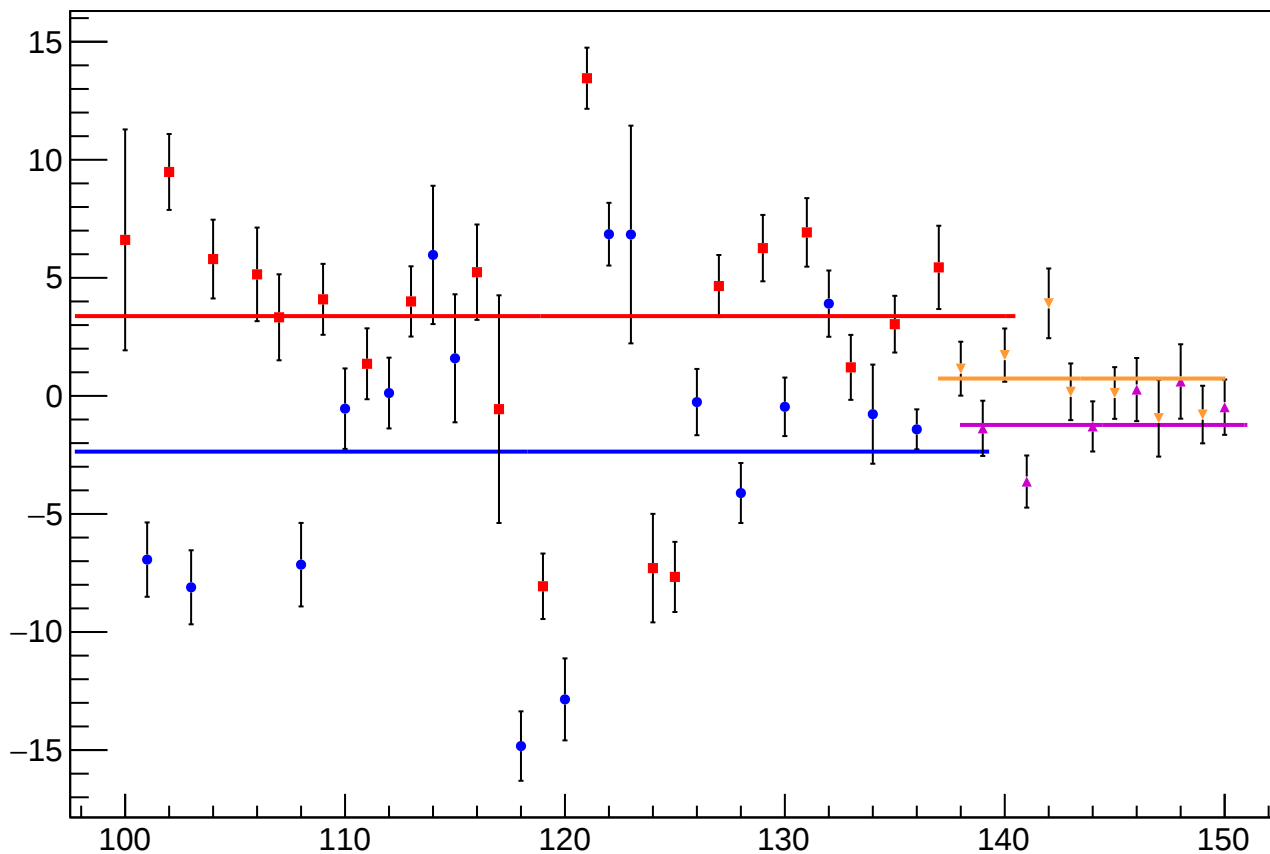
Right Out: 7865.549+/-2.119 χ^2/NDF : 555976.4/19

Left In: 7554.174+/-2.438 χ^2/NDF : 30412.8/5

8013.293+/-1.672 χ^2/NDF : 329807.2/23

7731.525+/-1.600 χ^2/NDF : 595679.0/25

diff_bpm0l10Y_mean vs Slug



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

Left Out: 0.736 ± 0.467 χ^2/NDF : 8.7/6

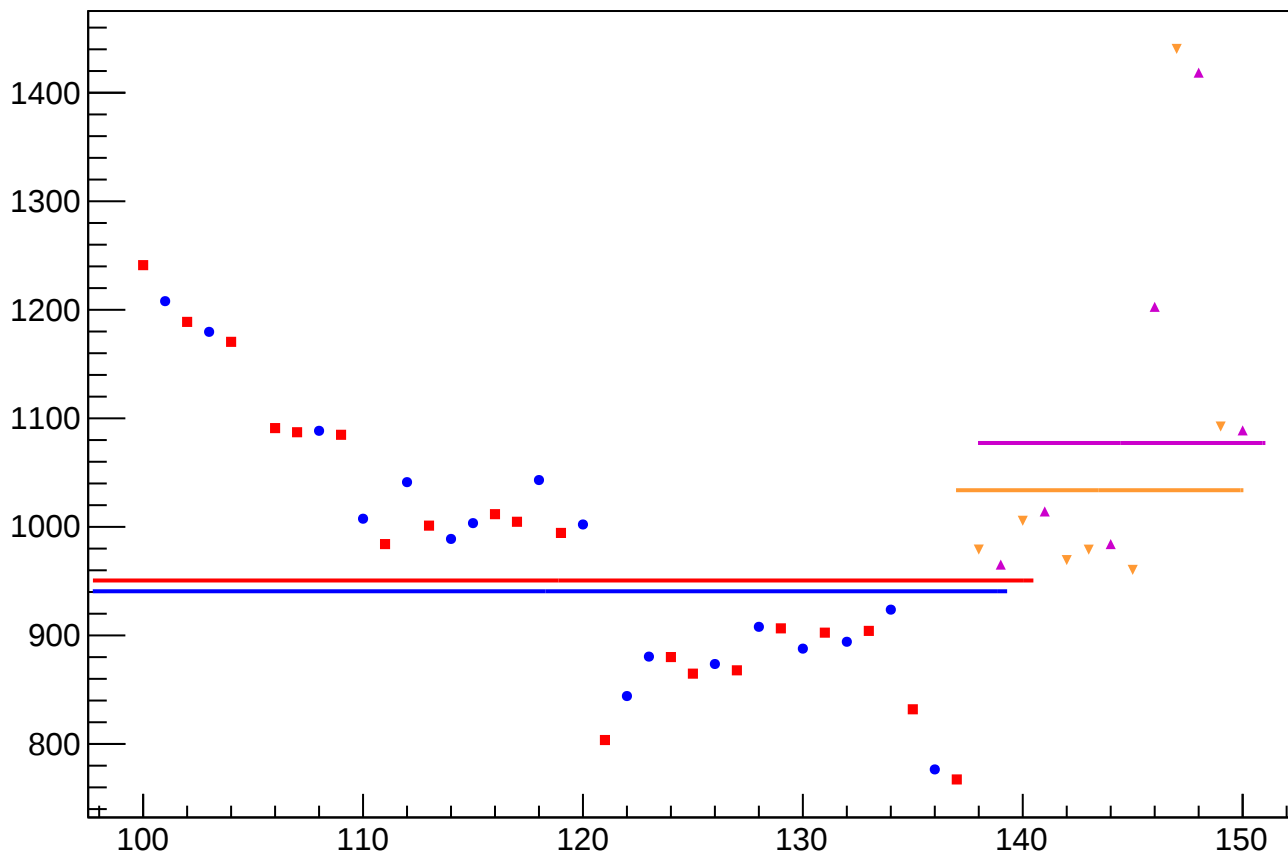
Right Out: 3.379 ± 0.357 χ^2/NDF : 242.1/19

Left In: -1.230 ± 0.492 χ^2/NDF : 7.8/5

-1.183 ± 0.288 χ^2/NDF : 268.0/23

1.789 ± 0.289 χ^2/NDF : 307.3/25

diff_bpm0l10Y_rms vs Slug



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

Left Out: 1033.781+/-0.330 χ^2/NDF :152164.0/6

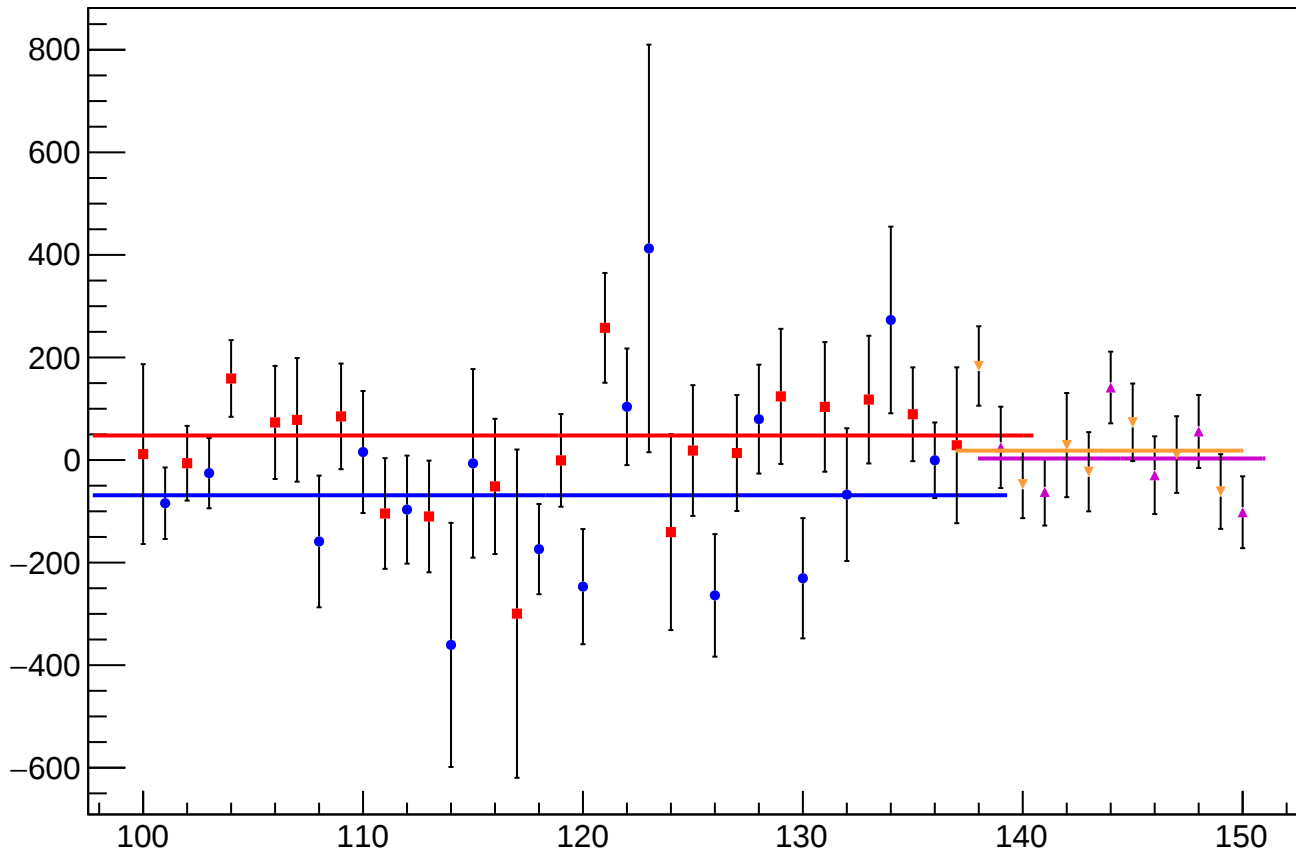
Right Out: 950.615+/-0.253 χ^2/NDF : 220931.3/19

Left In: 1077.299+/-0.348 χ^2/NDF :151835.4/5

976.080+/-0.203 χ^2/NDF : 443254.1/23

994.327+/-0.204 χ^2/NDF : 459563.5/25

diff_bpm0r03X_mean vs Slug



Right In: -68.688 ± 25.946 $\chi^2/\text{NDF}: 21.8/16$

Left Out: 18.302 ± 28.845 $\chi^2/\text{NDF}: 7.6/6$

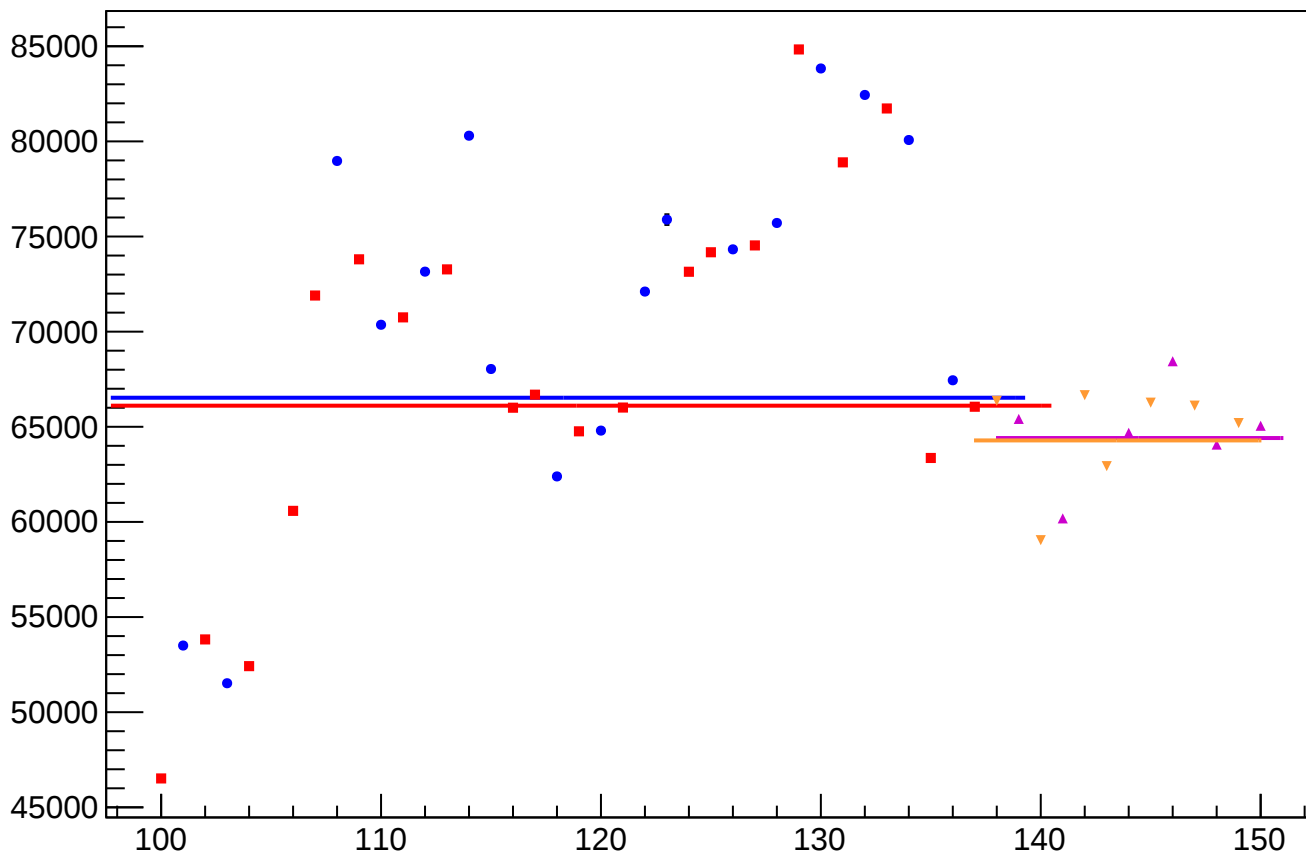
Right Out: 47.835 ± 24.944 $\chi^2/\text{NDF}: 15.2/19$

Left In: 3.011 ± 29.215 $\chi^2/\text{NDF}: 8.0/5$

-29.783 ± 19.290 $\chi^2/\text{NDF}: 34.3/23$

28.937 ± 18.970 $\chi^2/\text{NDF}: 24.5/25$

diff_bpm0r03X_rms vs Slug



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

Left Out: 64283.554+/-20.396 χ^2/NDF : 18581.5/6

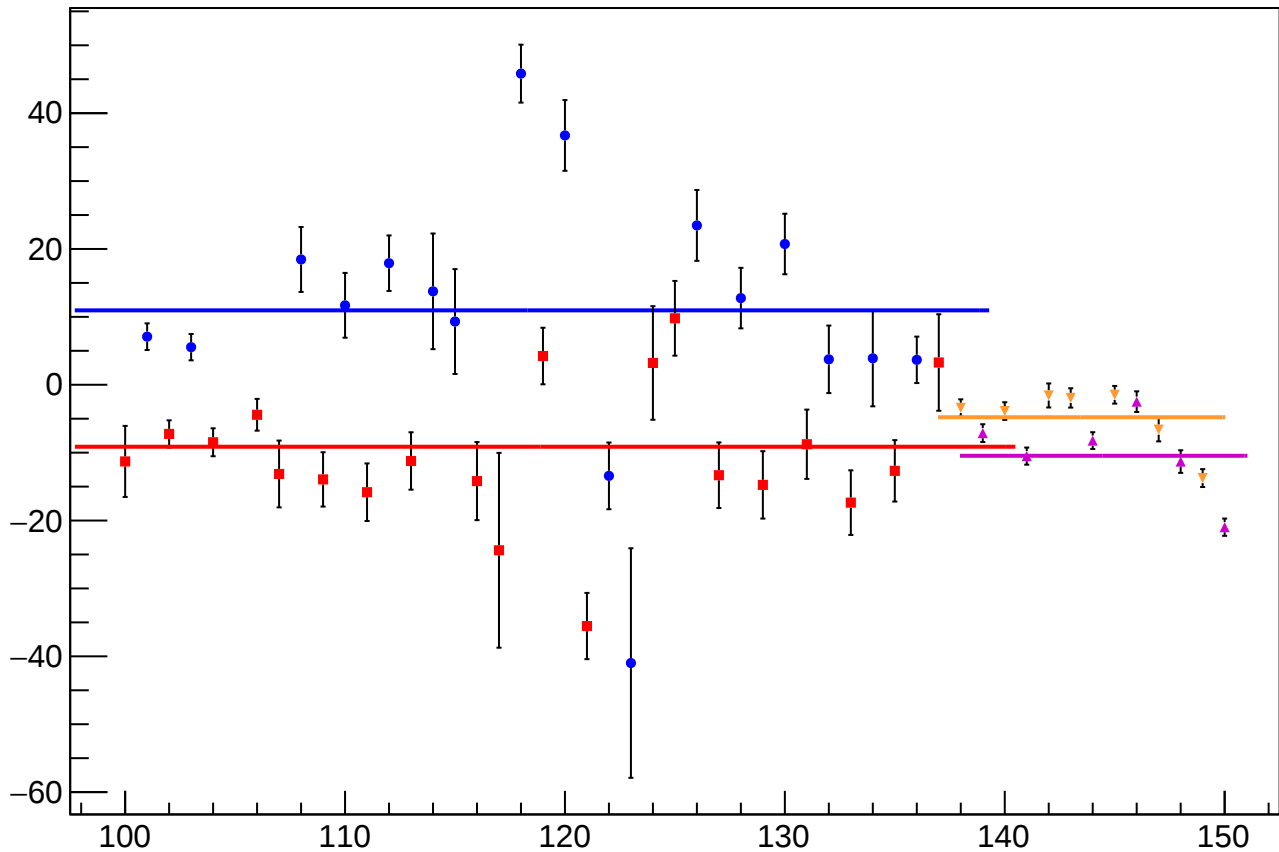
Right Out: 66109.383+/-17.638 χ^2/NDF : 298491.9/19

Left In: 64408.949+/-20.658 χ^2/NDF : 14536.8/5

65523.786+/-13.640 χ^2/NDF : 346157.7/23

65392.452+/-13.414 χ^2/NDF : 316947.5/25

diff_bpm0r03Y_mean vs Slug



Right In: 10.958 ± 0.943 χ^2/NDF : 160.9/16

Left Out: -4.785 ± 0.532 χ^2/NDF : 62.9/6

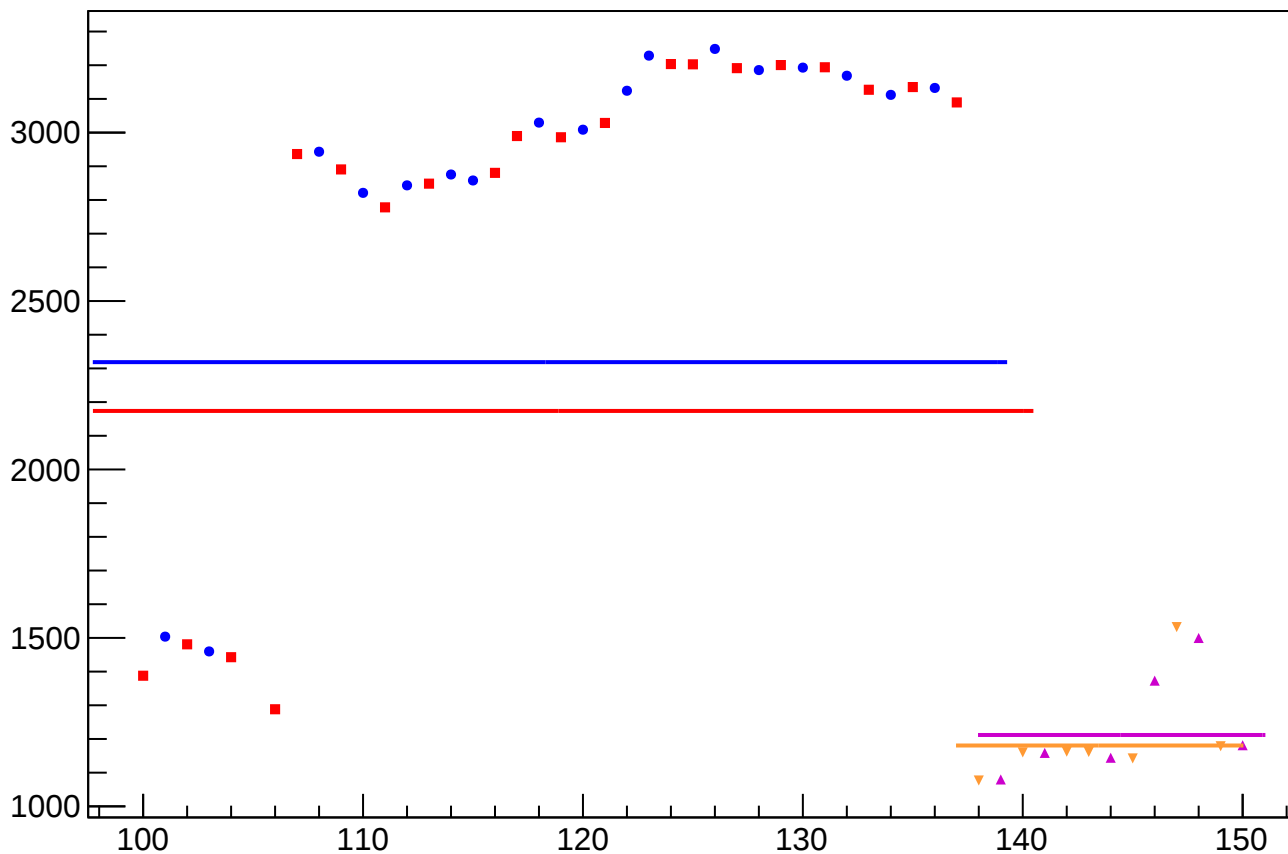
Right Out: -9.127 ± 0.865 χ^2/NDF : 74.2/19

Left In: -10.460 ± 0.552 χ^2/NDF : 106.0/5

-0.989 ± 0.463 χ^2/NDF : 435.3/23

-10.074 ± 0.465 χ^2/NDF : 181.9/25

diff_bpm0r03Y_rms vs Slug



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

Left Out: 1180.628+/-0.376 χ^2/NDF :98885.2/6

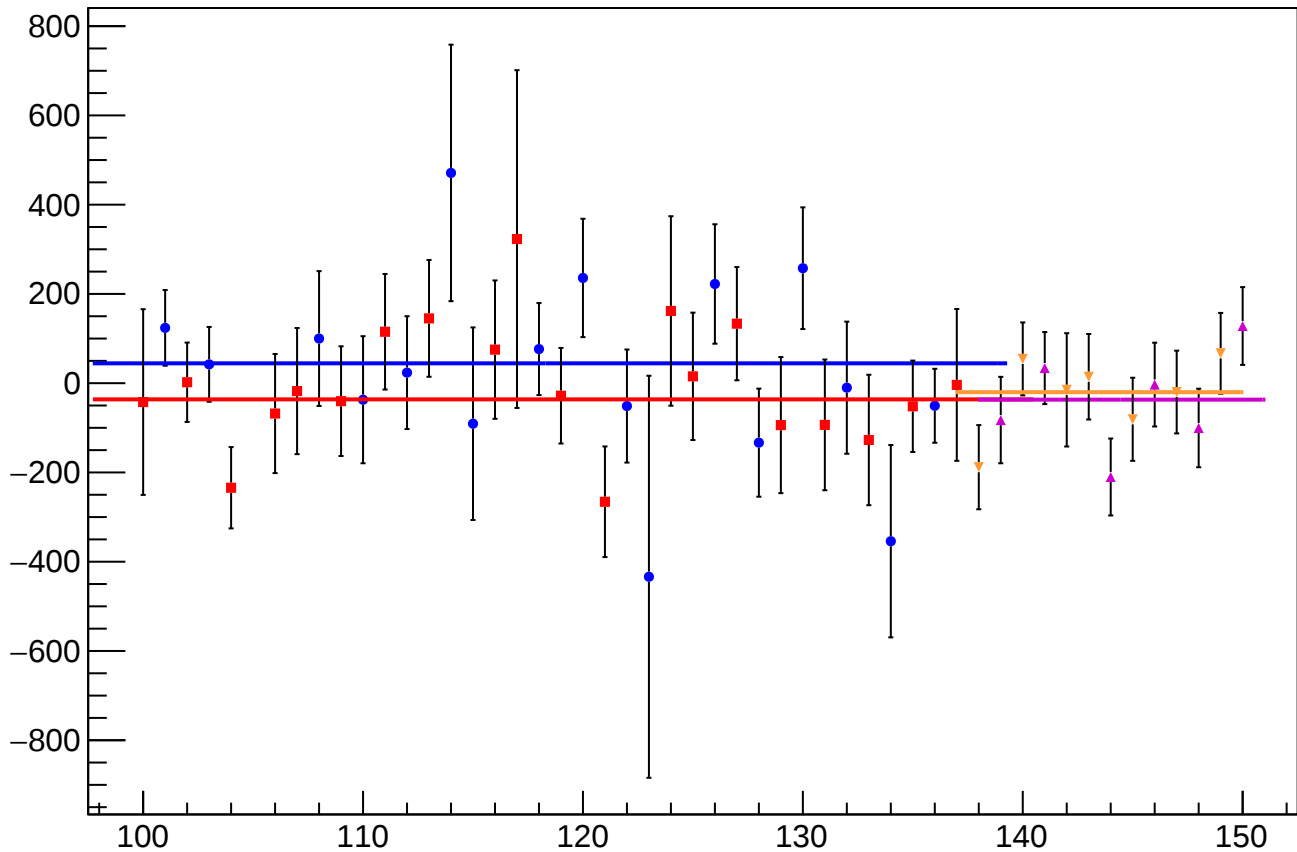
Right Out: 2173.762+/-0.611 χ^2/NDF : 1760181.2/19

Left In: 1211.839+/-0.391 χ^2/NDF :113220.7/5

1455.071+/-0.328 χ^2/NDF : 3716553.4/23

1490.542+/-0.329 χ^2/NDF : 3631050.1/25

diff_bpm0r05X_mean vs Slug



Right In: 44.484+/-30.432 χ^2/NDF : 19.1/16

Left Out: -20.142+/-35.648 χ^2/NDF : 5.5/6

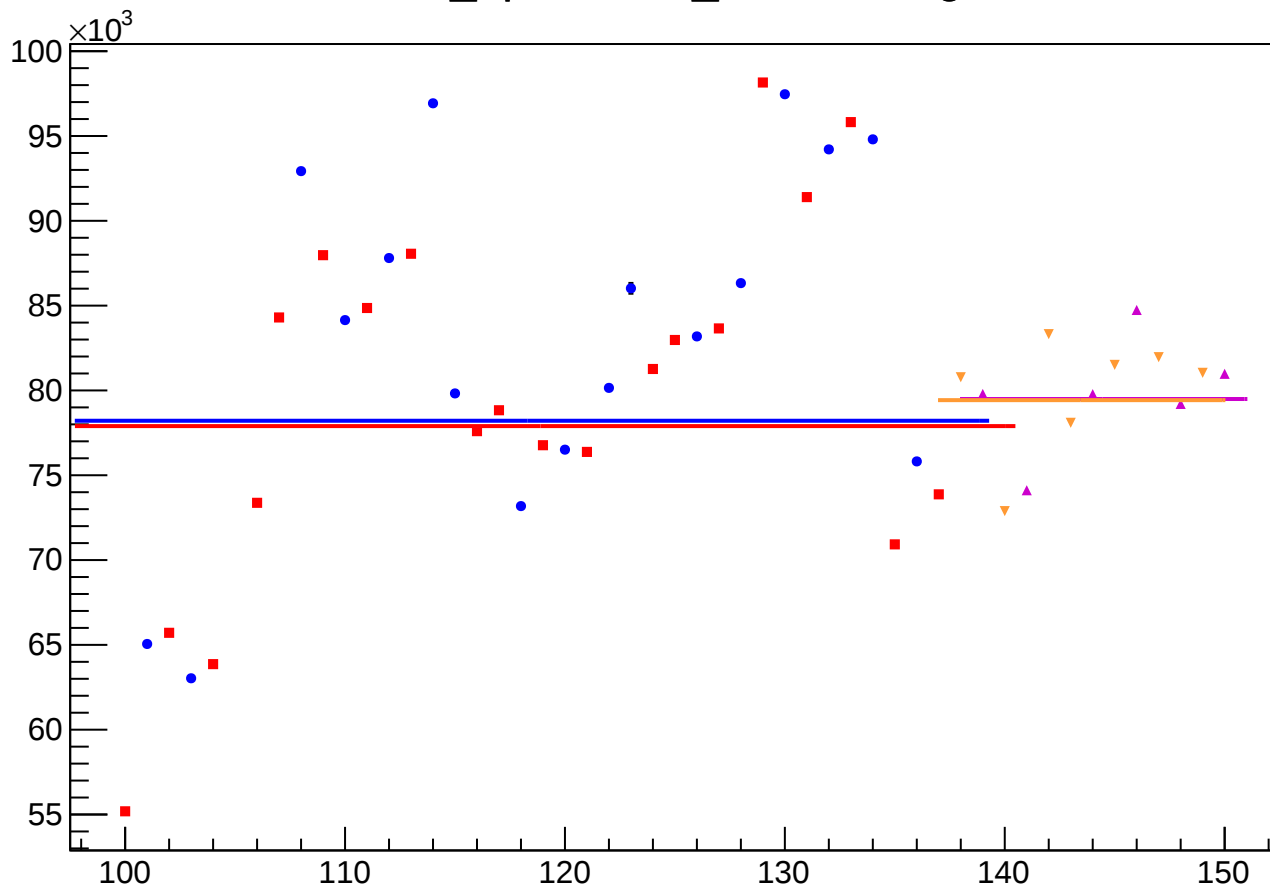
Right Out: -36.251+/-29.346 χ^2/NDF : 16.7/19

Left In: -36.879+/-36.065 χ^2/NDF : 9.3/5

17.240+/-23.145 χ^2/NDF : 26.5/23

-36.502+/-22.763 χ^2/NDF : 25.9/25

diff_bpm0r05X_rms vs Slug



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

Left Out: 79427.635 ± 25.207 χ^2/NDF : 18615.1/6

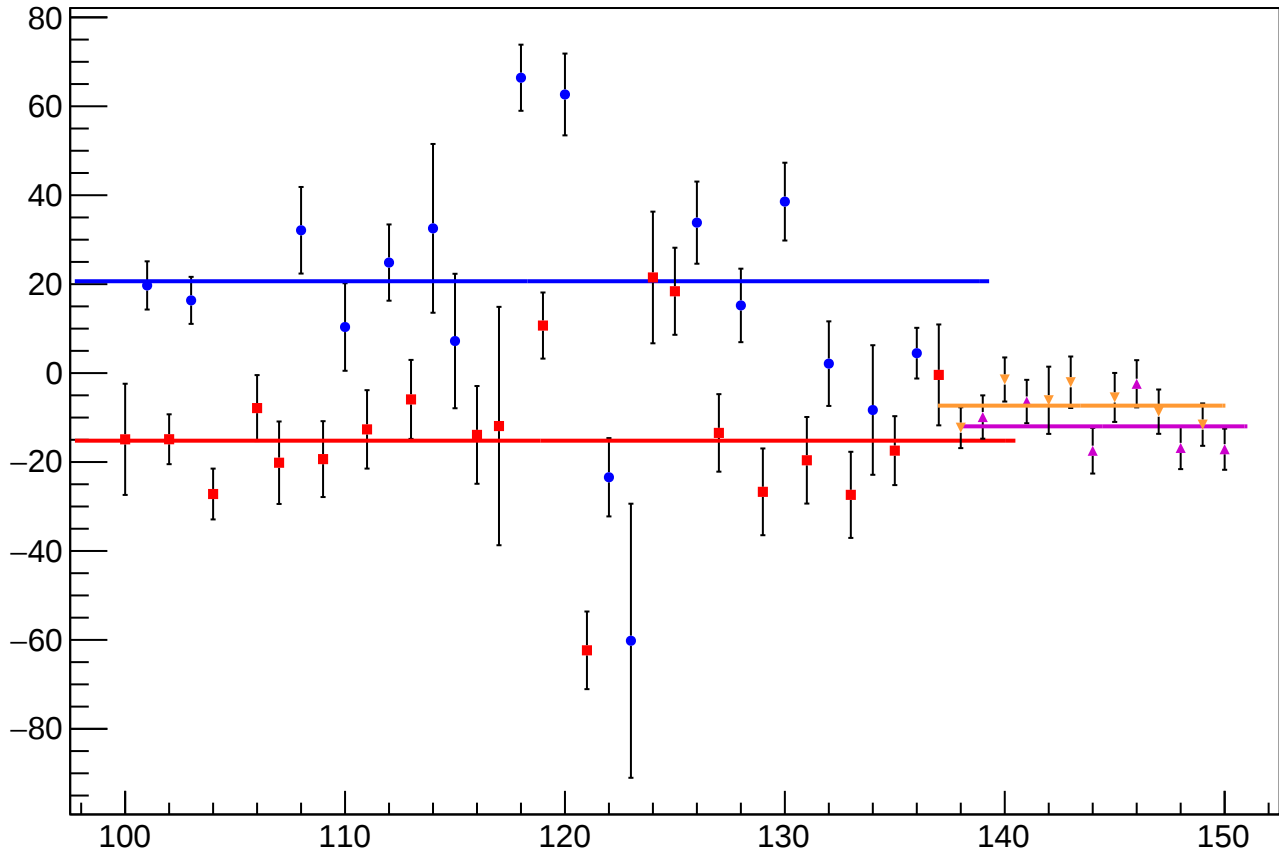
Right Out: 77897.594 ± 20.751 χ^2/NDF : 246982.5/19

Left In: 79494.975 ± 25.502 χ^2/NDF : 15772.7/5

78725.053 ± 16.366 χ^2/NDF : 271014.8/23

78533.920 ± 16.096 χ^2/NDF : 265115.7/25

diff_bpm0r05Y_mean vs Slug



Right In: 20.657 ± 2.036 χ^2/NDF : 117.7/16

Left Out: -7.318 ± 1.989 χ^2/NDF : 4.4/6

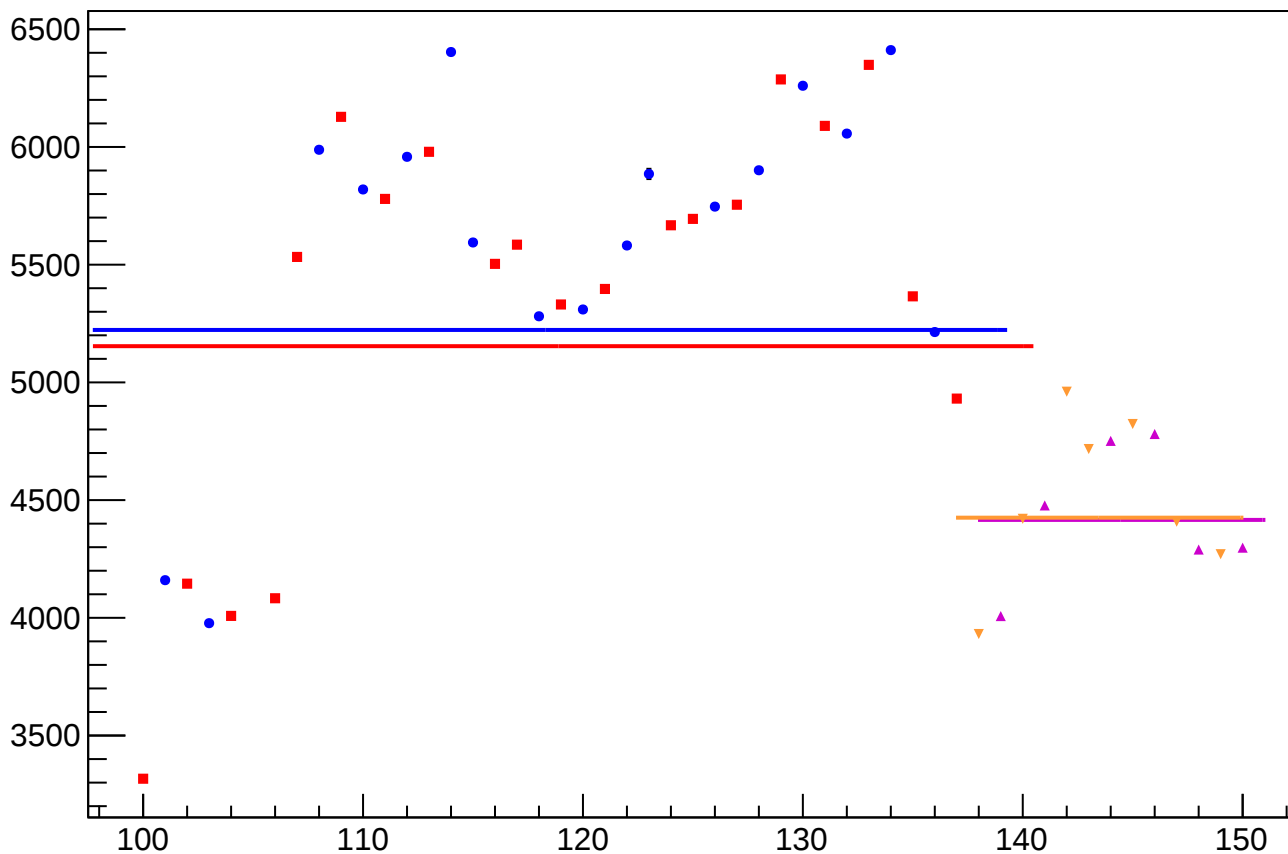
Right Out: -15.198 ± 1.950 χ^2/NDF : 71.3/19

Left In: -11.975 ± 2.007 χ^2/NDF : 8.2/5

6.345 ± 1.423 χ^2/NDF : 218.7/23

-13.633 ± 1.398 χ^2/NDF : 80.8/25

diff_bpm0r05Y_rms vs Slug



Right In: 5222.767+/-1.440 χ^2/NDF : 312497.9/16

Left Out: 4425.366+/-1.407 χ^2/NDF : 50877.0/6

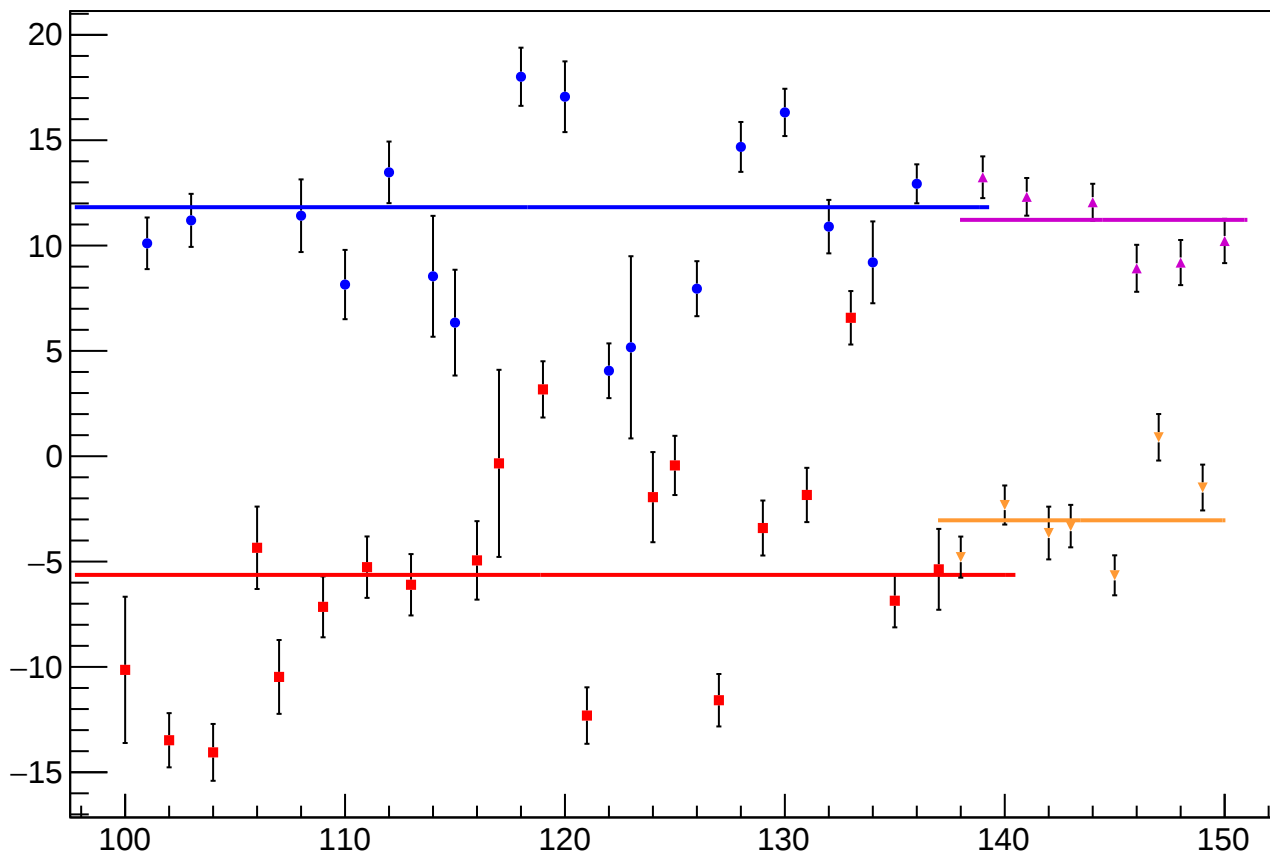
Right Out: 5153.826+/-1.379 χ^2/NDF : 388205.9/19

Left In: 4415.896+/-1.419 χ^2/NDF : 35075.1/5

4814.828+/-1.006 χ^2/NDF : 520338.5/23

4795.496+/-0.989 χ^2/NDF : 562425.7/25

diff_bpm2i01X_mean vs Slug



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

Left Out: -3.041+/-0.389 χ^2/NDF : 26.5/6

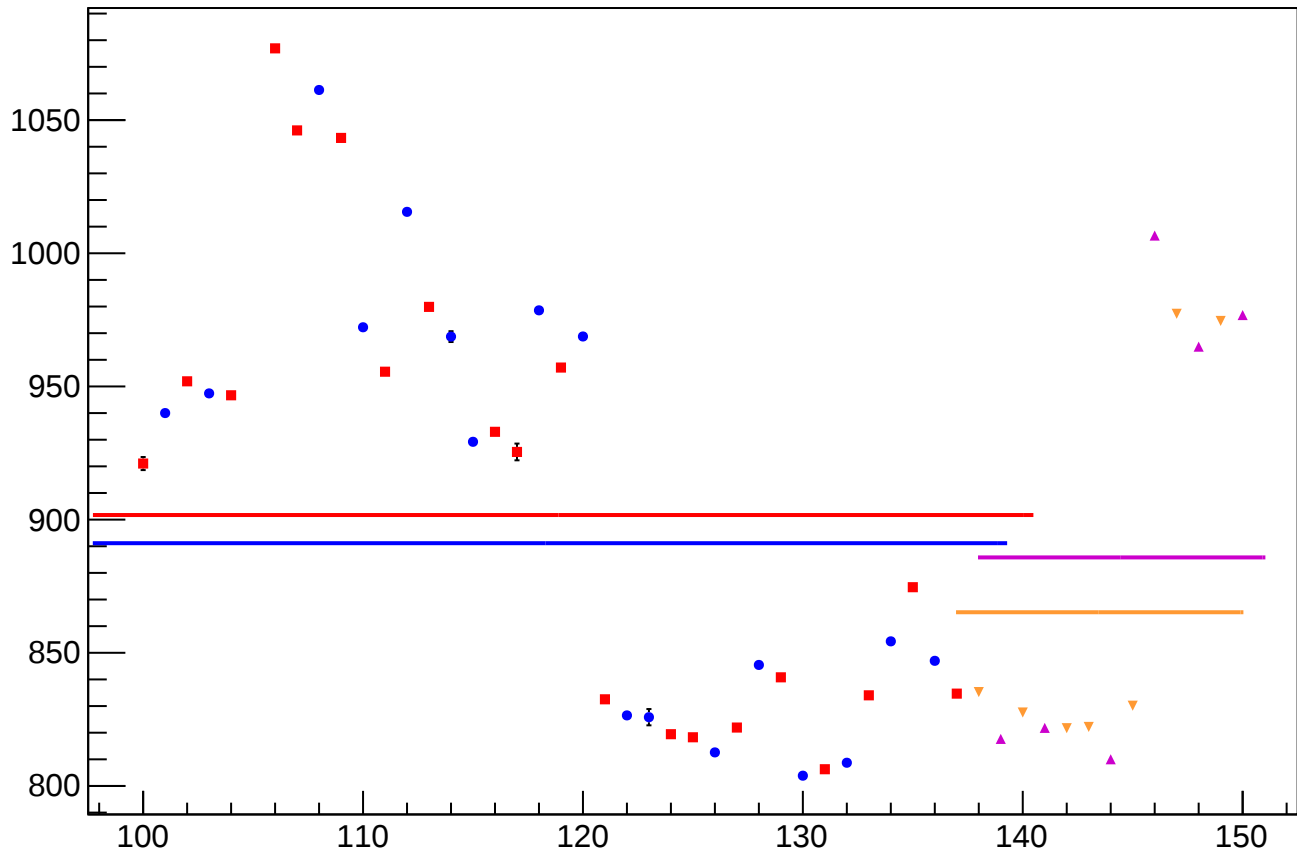
Right Out: -5.632+/-0.337 χ^2/NDF : 301.6/19

Left In: 11.220+/-0.403 χ^2/NDF : 15.3/5

5.286+/-0.258 χ^2/NDF : 961.9/23

1.316+/-0.259 χ^2/NDF : 1344.9/25

diff_bpm2i01X_rms vs Slug



Right In: 891.149 ± 0.244 $\chi^2/\text{NDF}: 101659.1/16$

Left Out: 865.224 ± 0.275 $\chi^2/\text{NDF}: 54813.2/6$

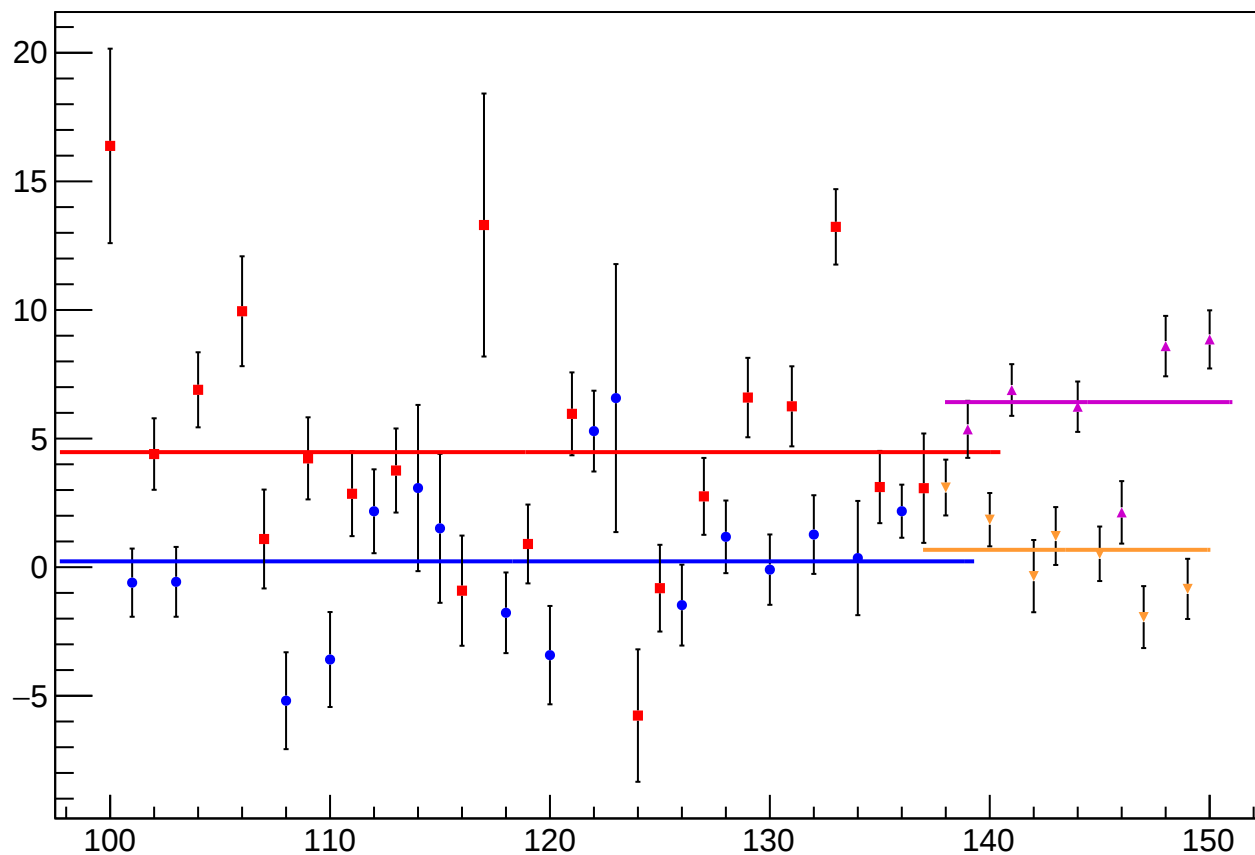
Right Out: 901.725 ± 0.239 $\chi^2/\text{NDF}: 114648.1/19$

Left In: 885.809 ± 0.285 $\chi^2/\text{NDF}: 84133.4/5$

879.749 ± 0.182 $\chi^2/\text{NDF}: 161452.8/23$

895.163 ± 0.183 $\chi^2/\text{NDF}: 200615.4/25$

diff_bpm2i01Y_mean vs Slug



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

Left Out: 0.675 ± 0.431 χ^2/NDF : 13.4/6

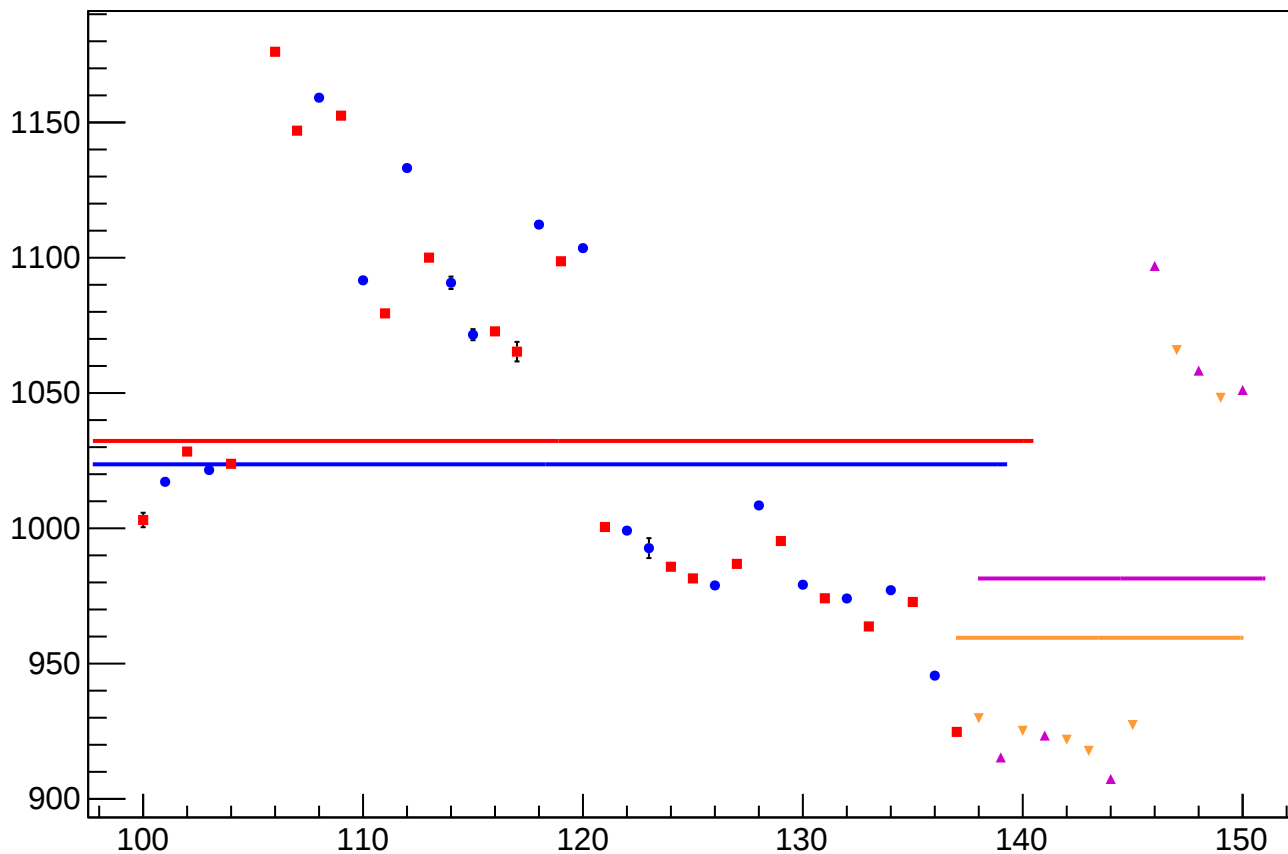
Right Out: 4.473 ± 0.386 χ^2/NDF : 106.3/19

Left In: 6.418 ± 0.446 χ^2/NDF : 21.7/5

0.432 ± 0.291 χ^2/NDF : 52.6/23

5.306 ± 0.292 χ^2/NDF : 138.9/25

diff_bpm2i01Y_rms vs Slug



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

Left Out: 959.547+/-0.305 χ^2/NDF : 36844.9/6

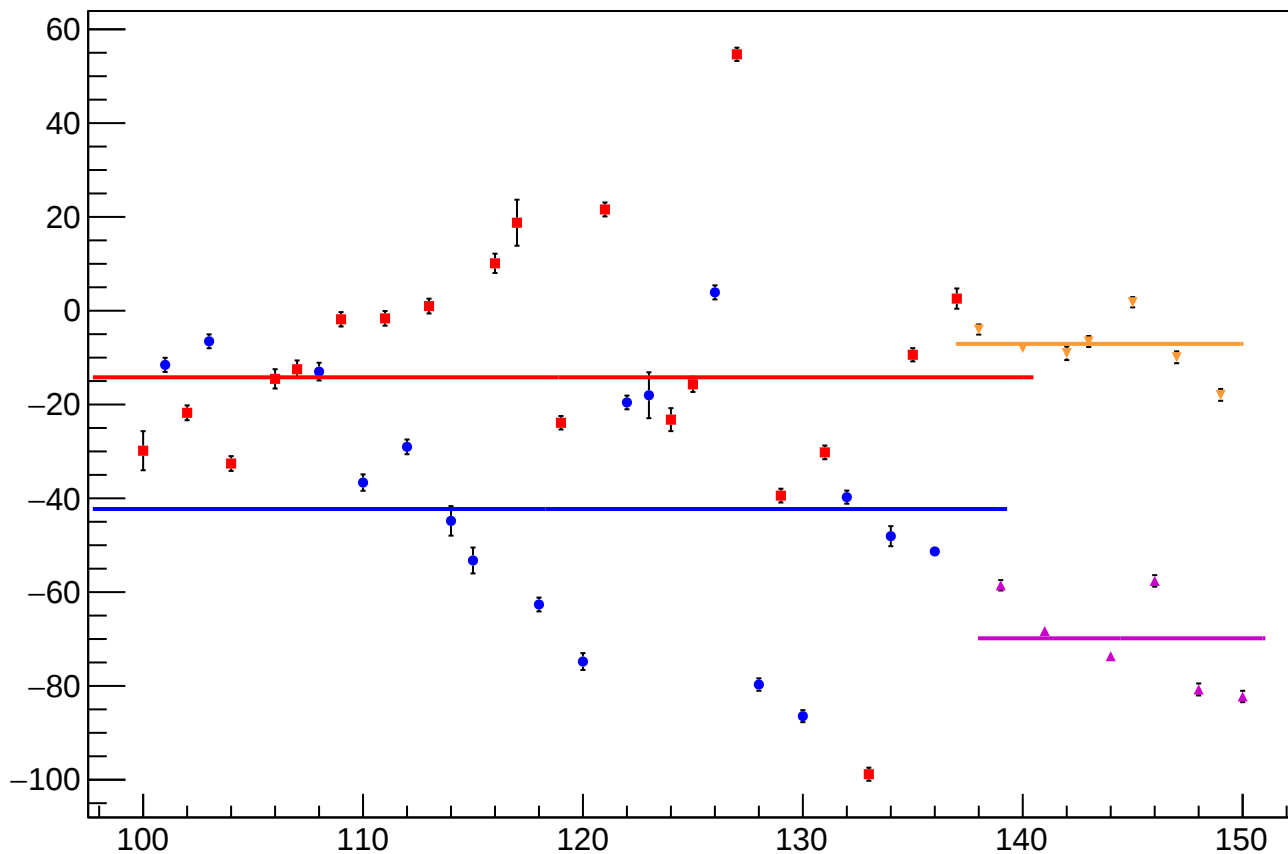
Right Out: 1032.296+/-0.273 χ^2/NDF : 59475.4/19

Left In: 981.458+/-0.315 χ^2/NDF : 59451.0/5

994.377+/-0.206 χ^2/NDF : 113279.1/23

1010.542+/-0.206 χ^2/NDF : 133800.7/25

diff_bpm2i02X_mean vs Slug



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -7.072 ± 0.446 χ^2/NDF : 155.4/6

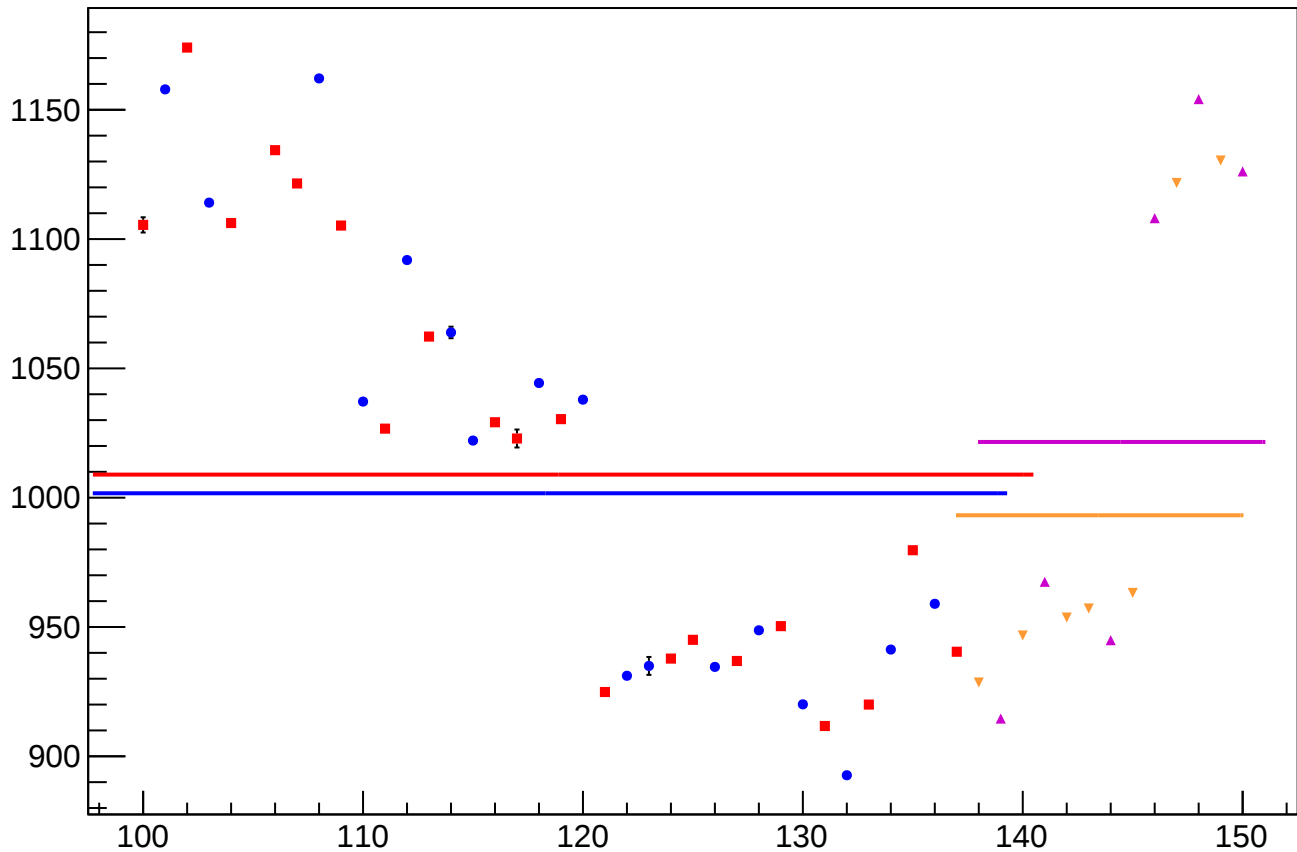
Right Out: -14.197 ± 0.377 χ^2/NDF : 7715.1/19

Left In: -69.850 ± 0.465 χ^2/NDF : 397.2/5

-27.163 ± 0.292 χ^2/NDF : 8833.1/23

-36.319 ± 0.293 χ^2/NDF : 16758.5/25

diff_bpm2i02X_rms vs Slug



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

Left Out: 993.204 $\pm$ 0.316 χ^2 /NDF:60048.6/6

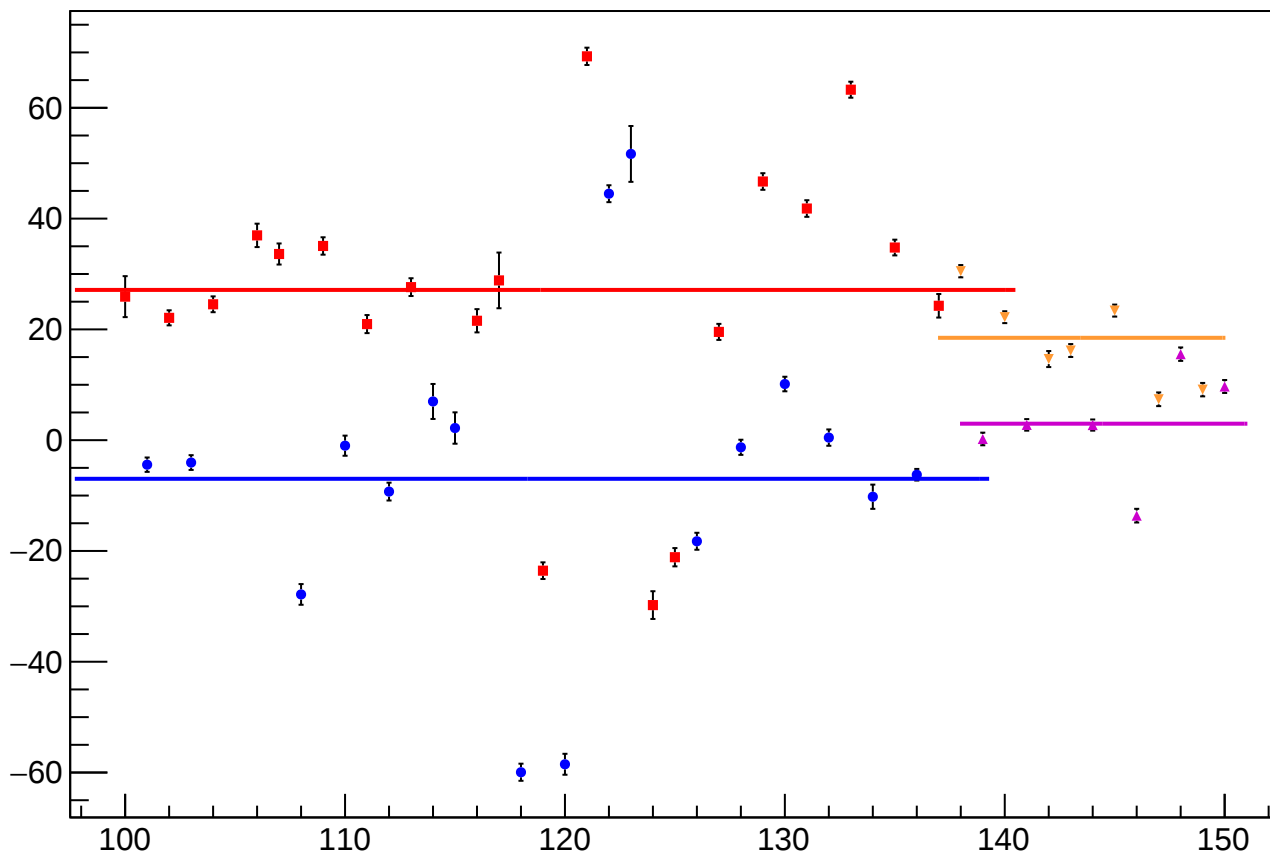
Right Out: 1008.931 $\pm$ 0.267 χ^2 /NDF: 95366.1/19

Left In: 1021.550 $\pm$ 0.329 χ^2 /NDF:81488.1/5

998.056 $\pm$ 0.207 χ^2 /NDF: 155942.7/23

1013.947 $\pm$ 0.207 χ^2 /NDF: 177743.4/25

diff_bpm2i02Y_mean vs Slug



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

Left Out: 18.481 ± 0.444 χ^2/NDF : 301.0/6

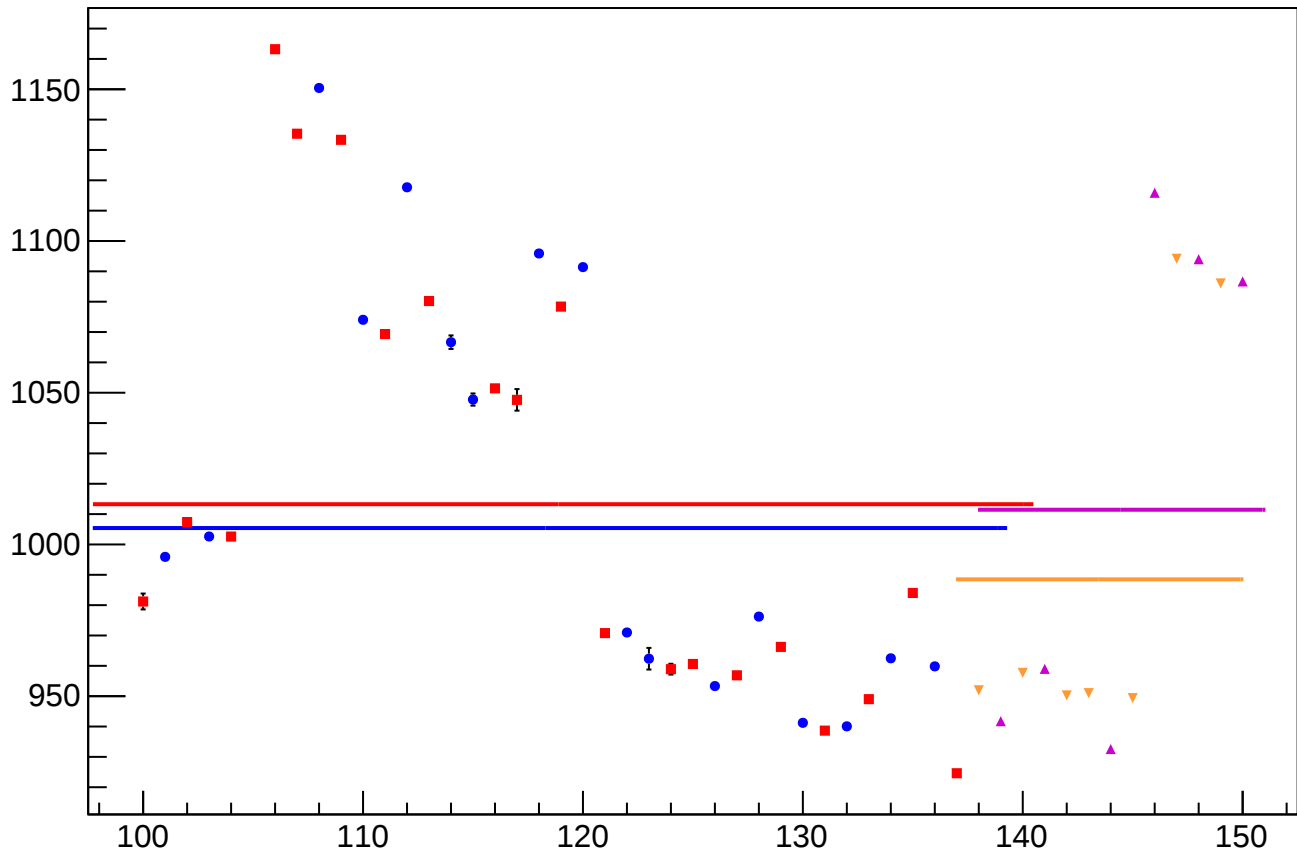
Right Out: 27.125 ± 0.379 χ^2/NDF : 4283.6/19

Left In: 2.975 ± 0.459 χ^2/NDF : 326.3/5

4.052 ± 0.292 χ^2/NDF : 5802.7/23

17.360 ± 0.292 χ^2/NDF : 6256.1/25

diff_bpm2i02Y_rms vs Slug



Right In: 1005.409 $\pm$ 0.274 χ^2/NDF : 54586.0/16

Left Out: 988.504 $\pm$ 0.314 χ^2/NDF : 37447.0/6

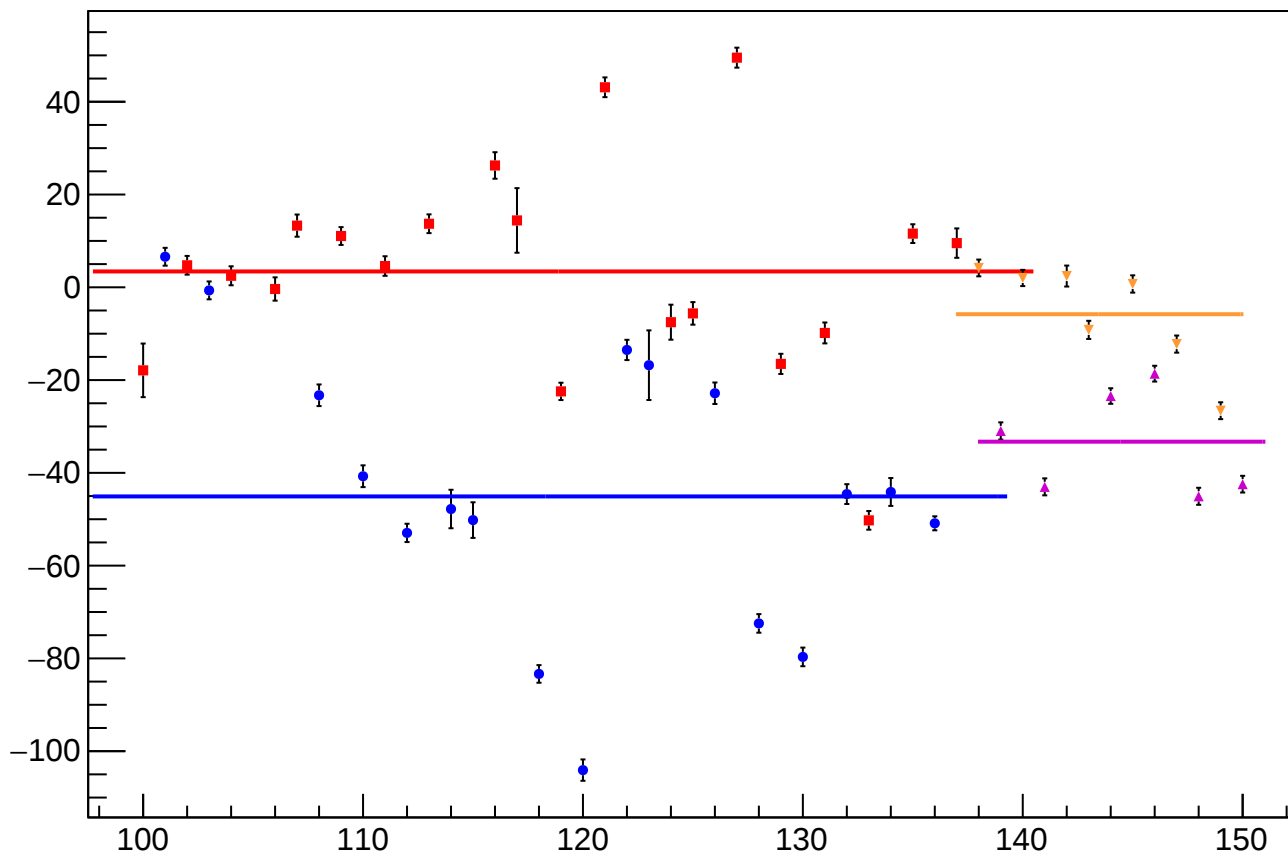
Right Out: 1013.260 $\pm$ 0.268 χ^2/NDF : 63359.8/19

Left In: 1011.440 $\pm$ 0.325 χ^2/NDF : 56604.1/5

998.086 $\pm$ 0.207 χ^2/NDF : 93677.9/23

1012.524 $\pm$ 0.207 χ^2/NDF : 119982.7/25

diff_bpm0i02X_mean vs Slug



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

Left Out: -5.802 ± 0.712 χ^2/NDF : 222.5/6

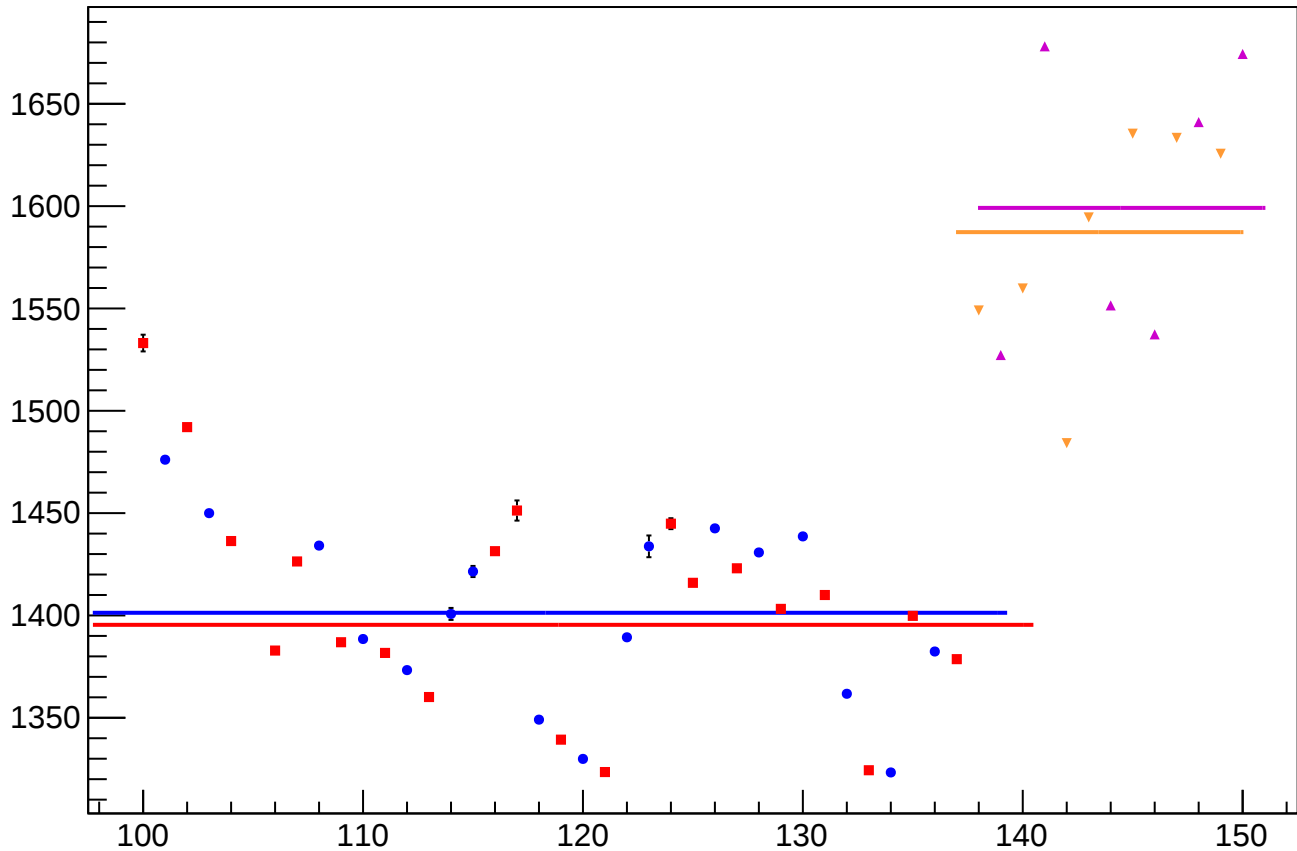
Right Out: 3.419 ± 0.520 χ^2/NDF : 2008.2/19

Left In: -33.280 ± 0.726 χ^2/NDF : 205.4/5

-30.739 ± 0.430 χ^2/NDF : 5394.6/23

-9.028 ± 0.423 χ^2/NDF : 3900.6/25

diff_bpm0i02X_rms vs Slug



Right In: 1401.307 ± 0.382 $\chi^2/\text{NDF}: 12852.1/16$

Left Out: 1587.302 ± 0.503 $\chi^2/\text{NDF}: 9043.2/6$

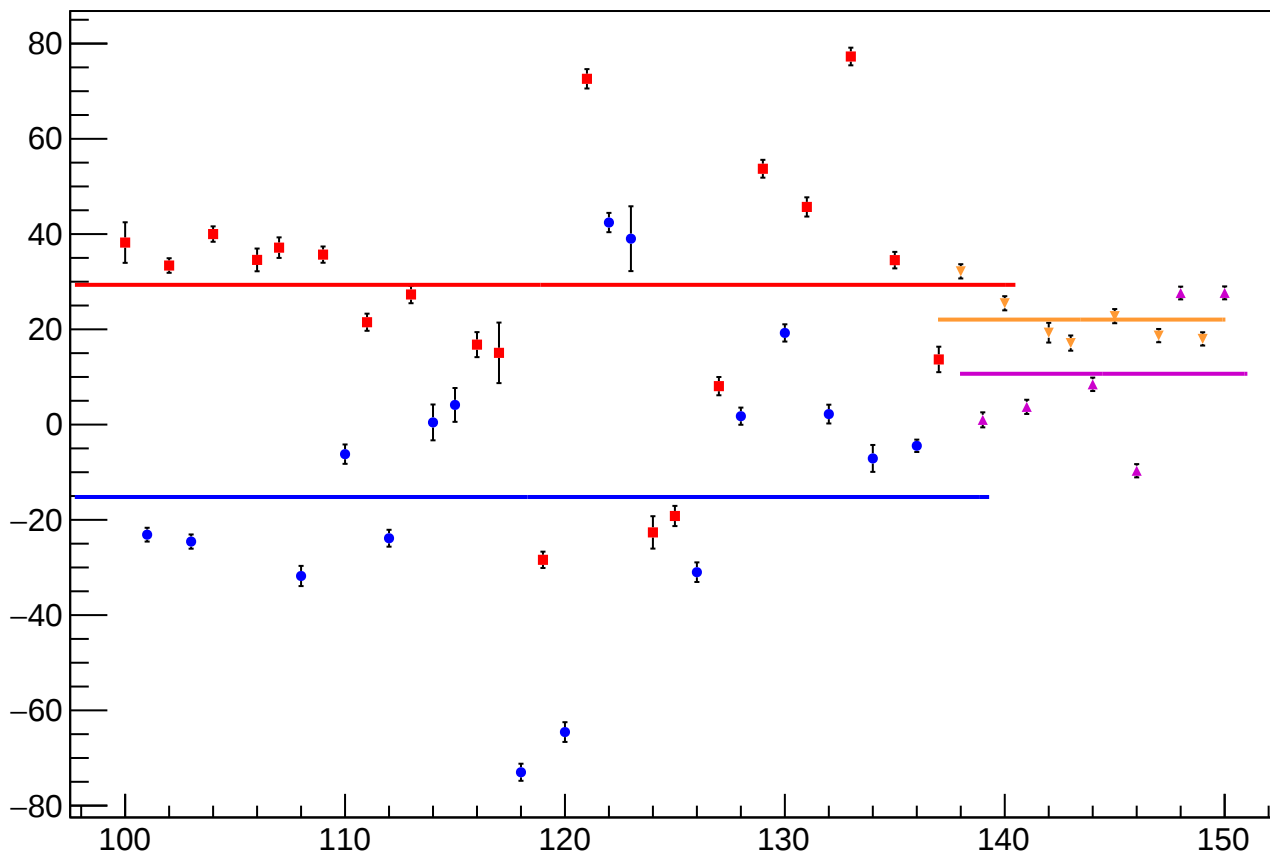
Right Out: 1395.419 ± 0.368 $\chi^2/\text{NDF}: 15649.3/19$

Left In: 1599.143 ± 0.514 $\chi^2/\text{NDF}: 15512.0/5$

1469.220 ± 0.304 $\chi^2/\text{NDF}: 108628.7/23$

1464.515 ± 0.299 $\chi^2/\text{NDF}: 135135.1/25$

diff_bpm0i02Y_mean vs Slug



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 22.047 ± 0.577 χ^2/NDF : 76.8/6

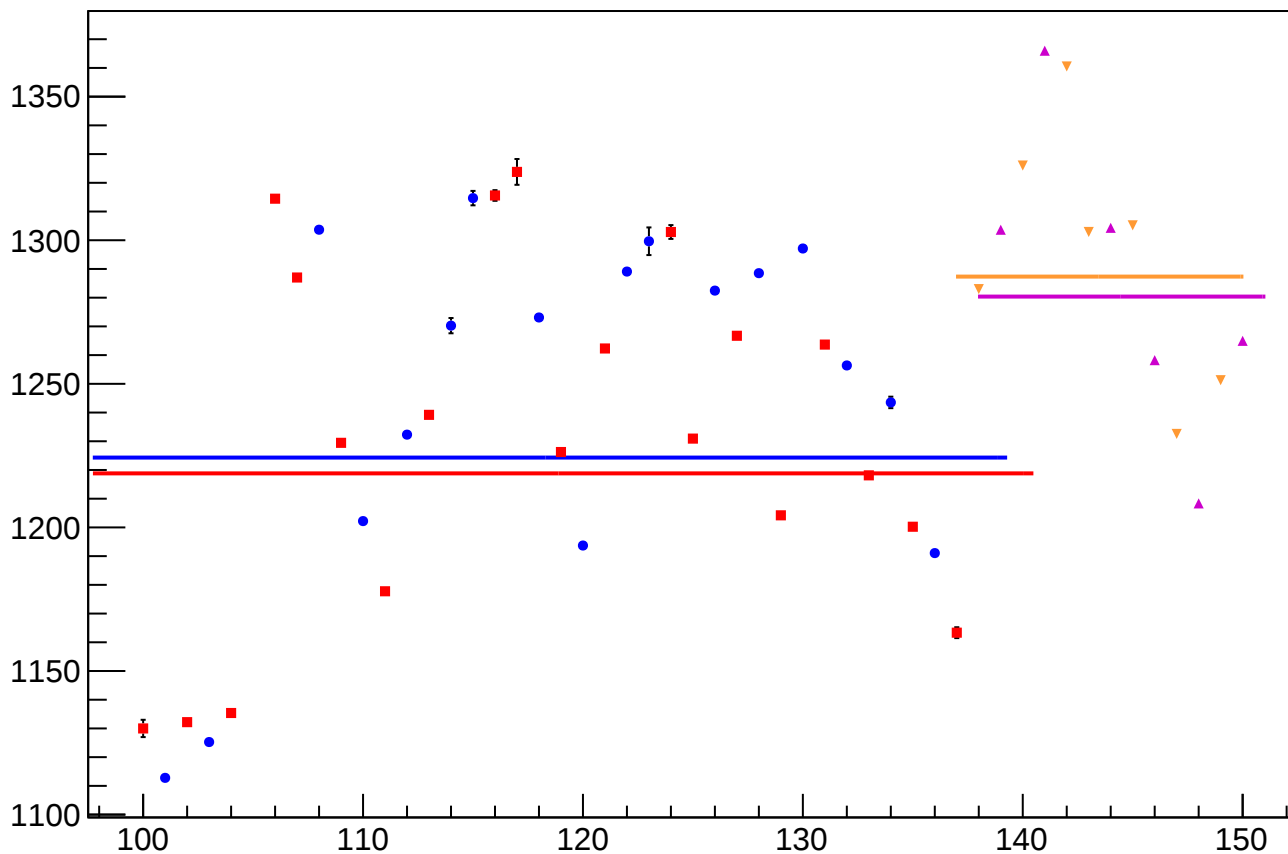
Right Out: 29.344 ± 0.455 χ^2/NDF : 3549.9/19

Left In: 10.671 ± 0.581 χ^2/NDF : 591.1/5

-0.267 ± 0.365 χ^2/NDF : 5935.2/23

22.243 ± 0.358 χ^2/NDF : 4781.5/25

diff_bpm0i02Y_rms vs Slug



Right In: 1224.320 ± 0.334 χ^2/NDF : 38778.2/16

Left Out: 1287.340 ± 0.408 χ^2/NDF : 8770.1/6

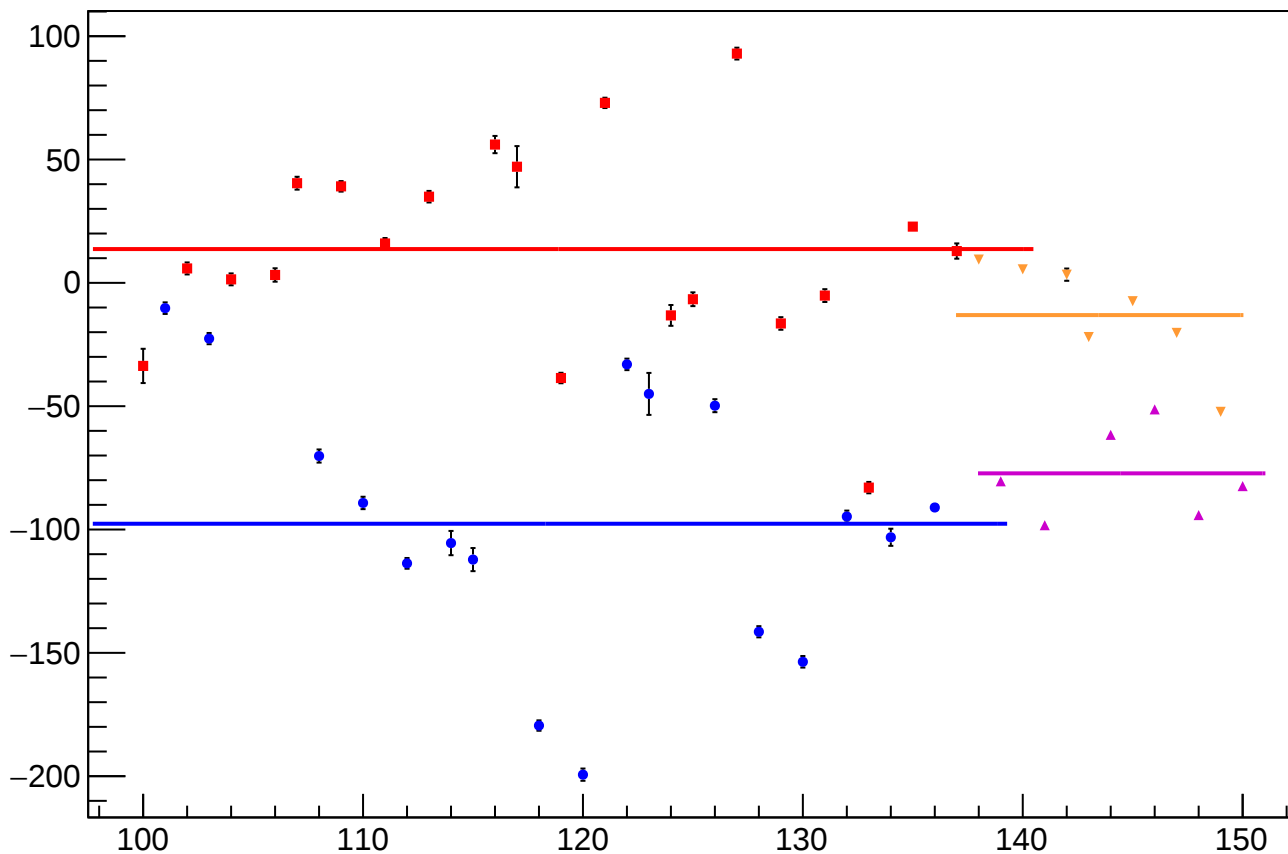
Right Out: 1218.817 ± 0.322 χ^2/NDF : 28121.5/19

Left In: 1280.381 ± 0.411 χ^2/NDF : 14115.3/5

1249.588 ± 0.258 χ^2/NDF : 61836.8/23

1242.229 ± 0.253 χ^2/NDF : 56159.4/25

diff_bpm0i02aX_mean vs Slug



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

Left Out: -13.066 ± 0.727 χ^2/NDF : 797.4/6

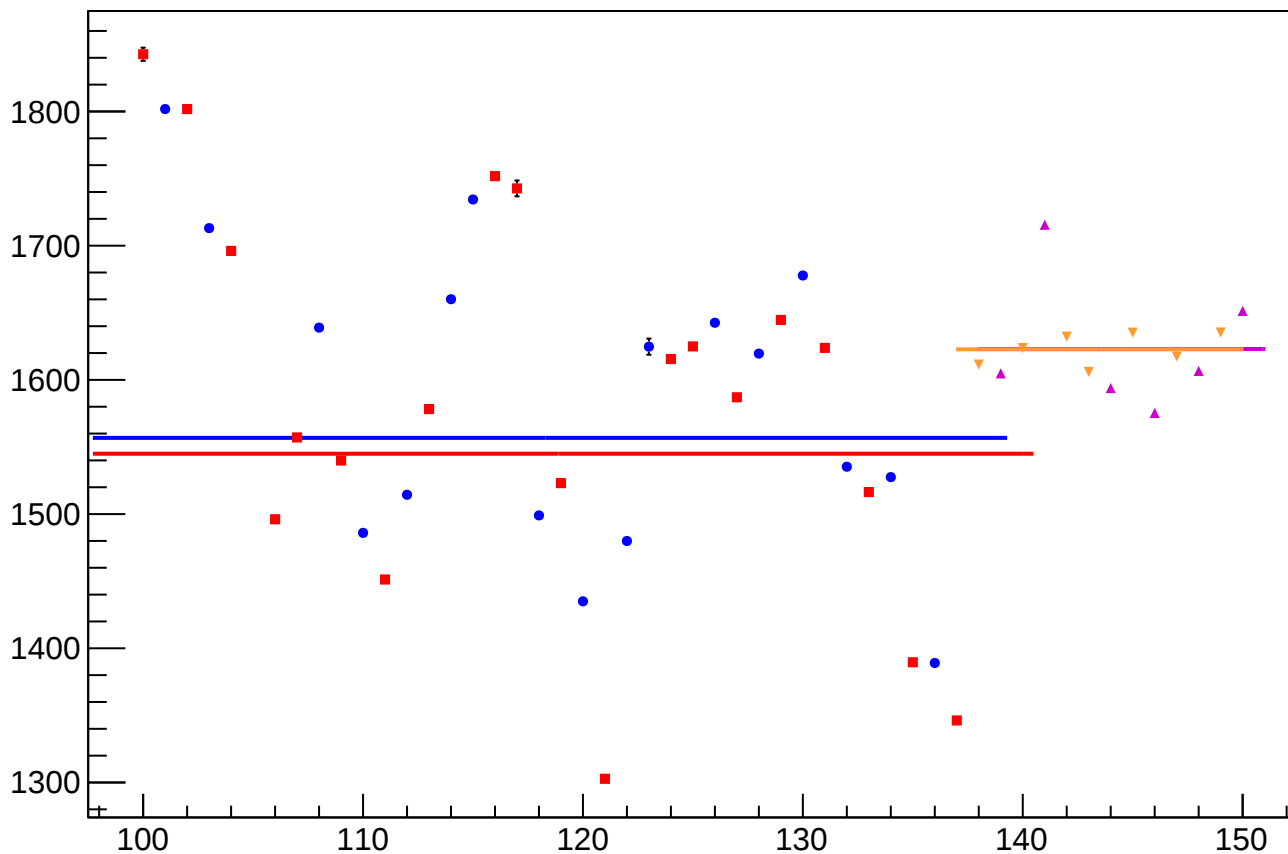
Right Out: 13.698 ± 0.578 χ^2/NDF : 5144.2/19

Left In: -77.230 ± 0.736 χ^2/NDF : 529.8/5

-63.300 ± 0.463 χ^2/NDF : 16771.7/23

-20.972 ± 0.455 χ^2/NDF : 15110.8/25

diff_bpm0i02aX_rms vs Slug



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

Left Out: 1622.773 $\pm$ 0.514 χ^2 /NDF: 448.4/6

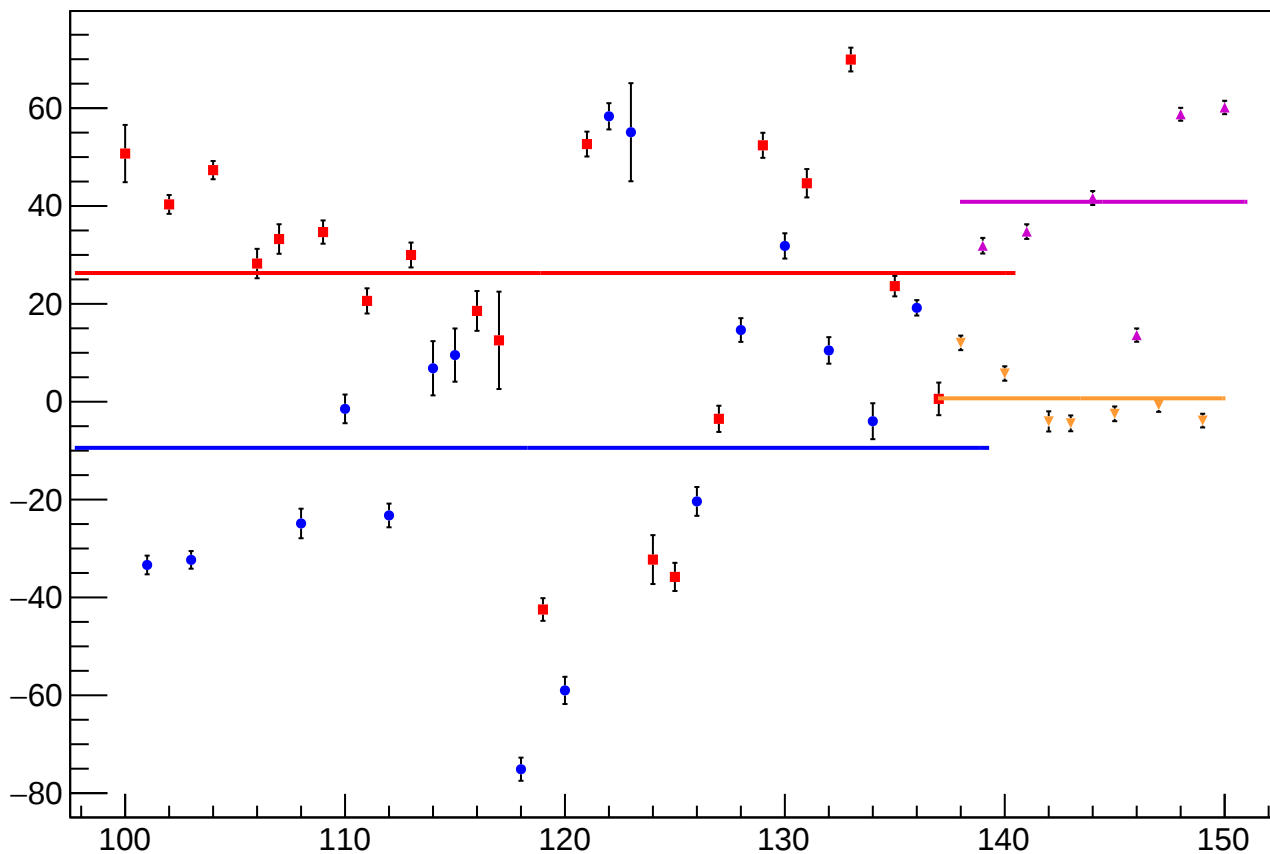
Right Out: 1544.983 $\pm$ 0.409 χ^2 /NDF: 101624.6/19

Left In: 1623.033 $\pm$ 0.521 χ^2 /NDF: 7801.9/5

1583.595 $\pm$ 0.328 χ^2 /NDF: 91775.8/23

1574.743 $\pm$ 0.321 χ^2 /NDF: 123332.5/25

diff_bpm0i02aY_mean vs Slug



Right In: -9.427 ± 0.626 $\chi^2/\text{NDF}: 2924.1/16$

Left Out: 0.694 ± 0.580 $\chi^2/\text{NDF}: 100.9/6$

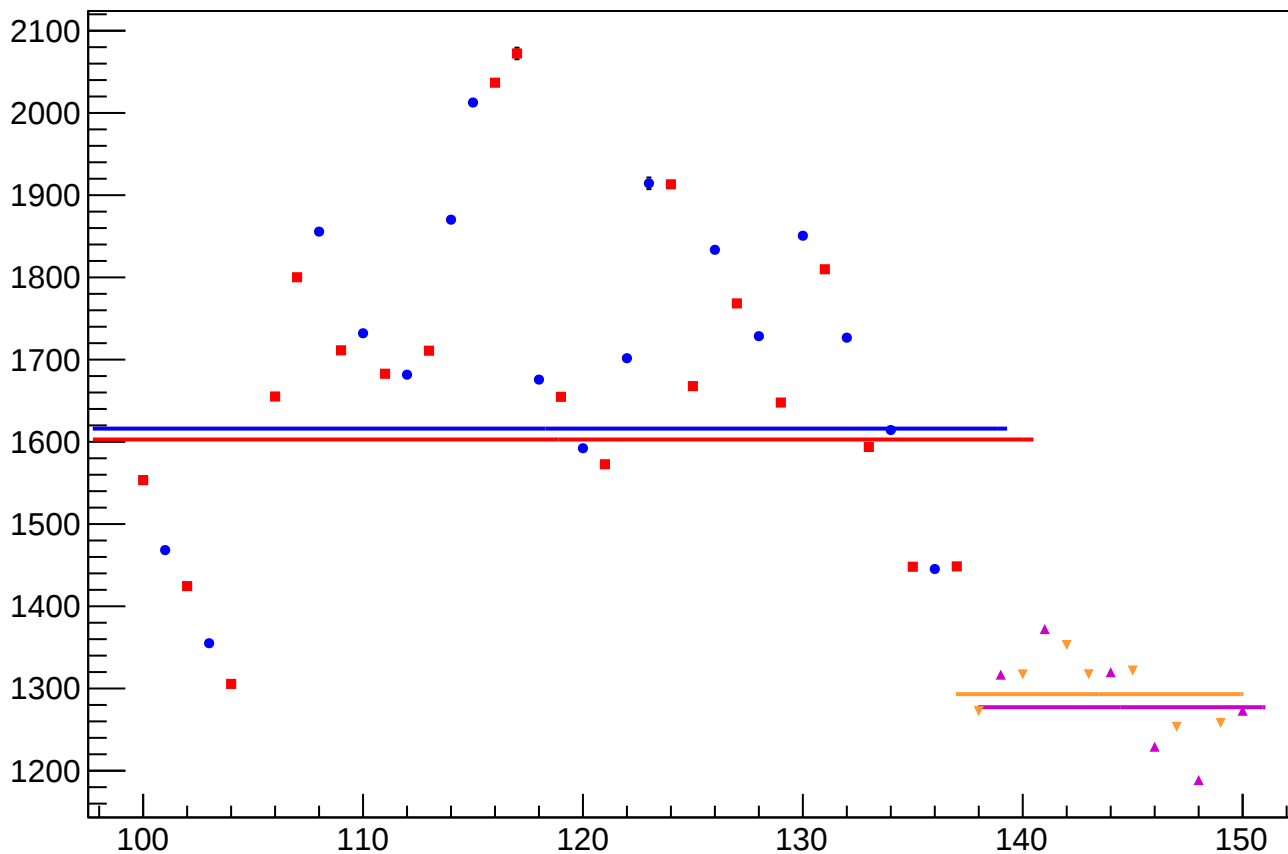
Right Out: 26.304 ± 0.602 $\chi^2/\text{NDF}: 2474.0/19$

Left In: 40.858 ± 0.580 $\chi^2/\text{NDF}: 829.7/5$

-3.976 ± 0.426 $\chi^2/\text{NDF}: 3165.6/23$

33.849 ± 0.418 $\chi^2/\text{NDF}: 3607.0/25$

diff_bpm0i02aY_rms vs Slug



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

Left Out: 1293.128+/-0.410 χ^2/NDF : 6582.7/6

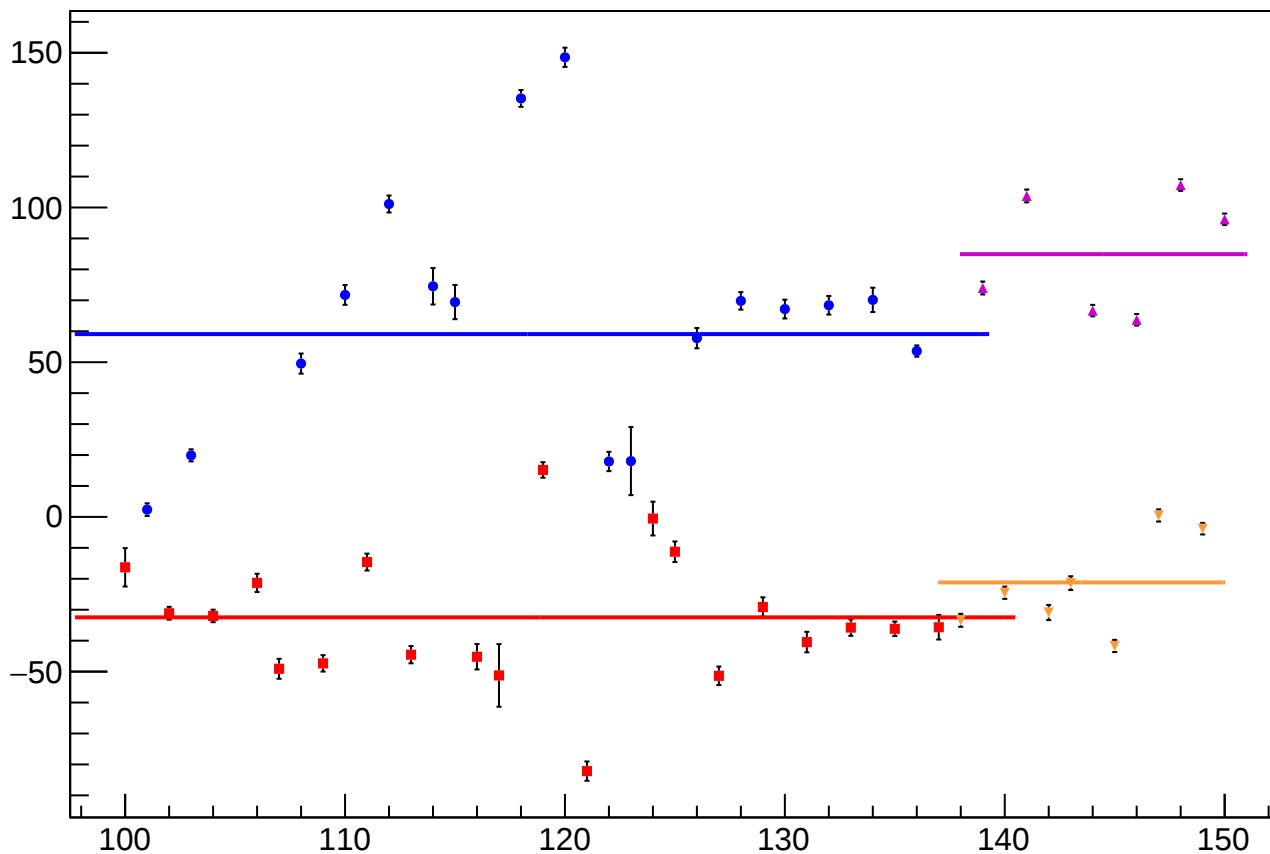
Right Out: 1602.857+/-0.425 χ^2/NDF : 158119.5/19

Left In: 1277.246+/-0.410 χ^2/NDF : 22547.7/5

1442.138+/-0.301 χ^2/NDF : 442495.4/23

1434.061+/-0.295 χ^2/NDF : 484299.4/25

diff_bpm0i05X_mean vs Slug



Right In: 59.081 $\pm$ 0.699 χ^2 /NDF: 3293.6/16

Left Out: -21.183 $\pm$ 0.778 χ^2 /NDF:367.8/6

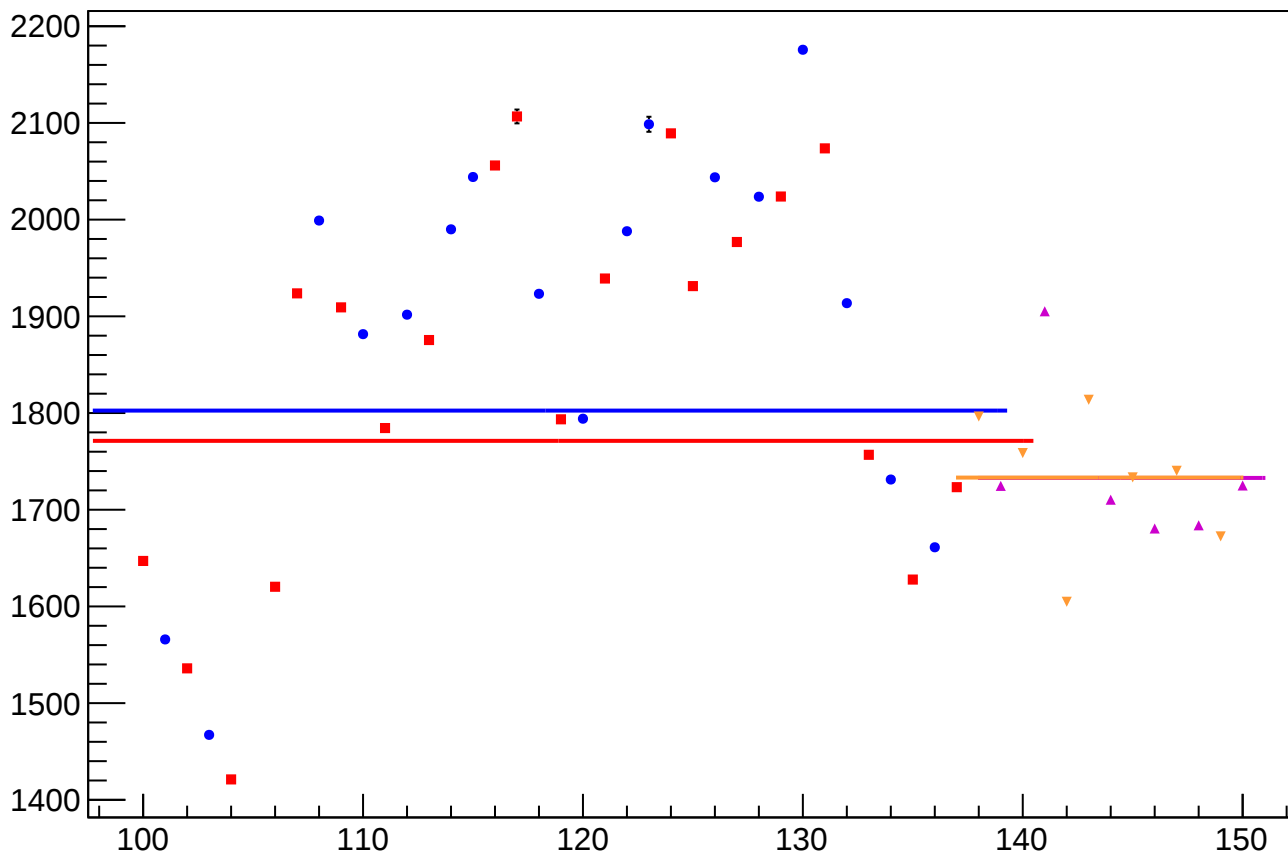
Right Out: -32.463 $\pm$ 0.665 χ^2 /NDF: 894.9/19

Left In: 84.918 $\pm$ 0.787 χ^2 /NDF:514.7/5

23.210 $\pm$ 0.520 χ^2 /NDF: 9546.5/23

16.426 $\pm$ 0.508 χ^2 /NDF: 14384.9/25

diff_bpm0i05X_rms vs Slug



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

Left Out: 1733.249+/-0.550 χ^2/NDF :12397.7/6

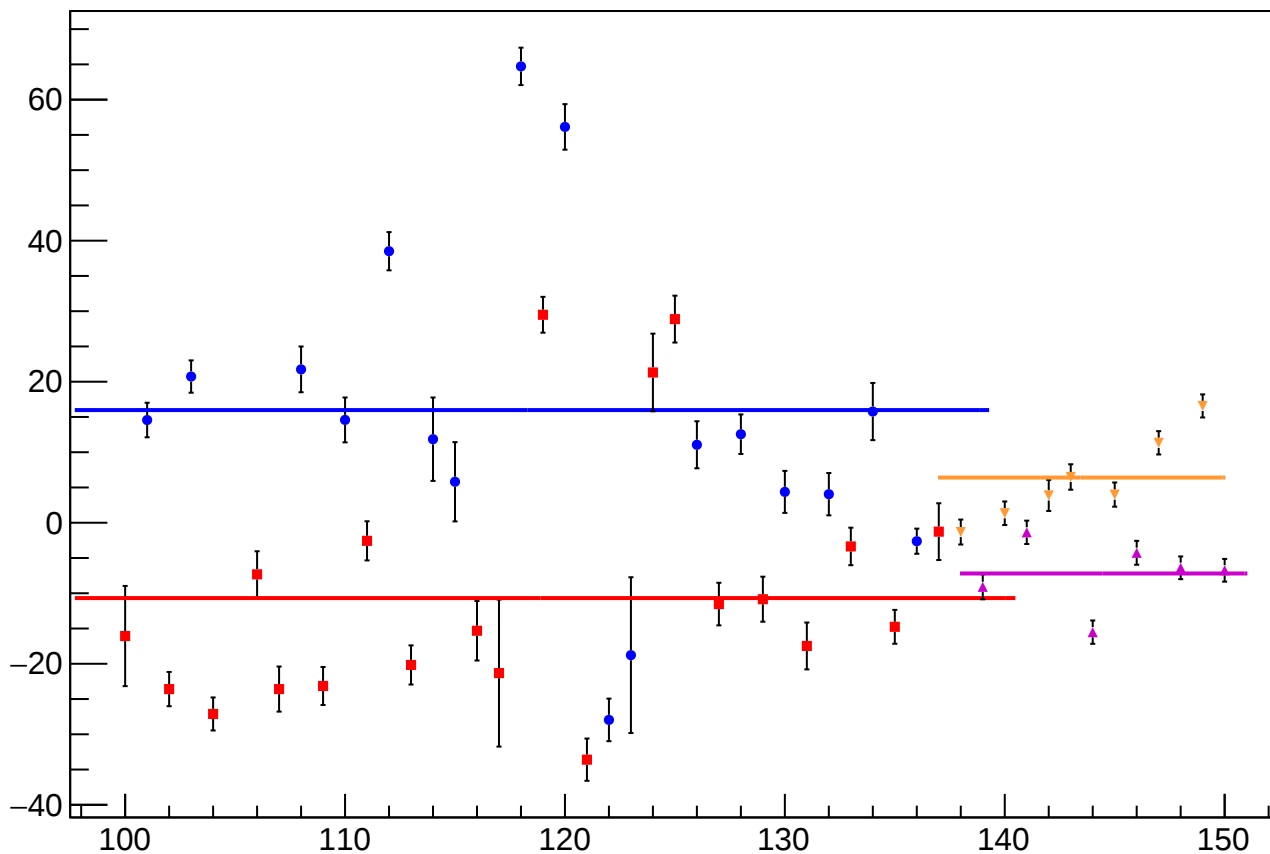
Right Out: 1771.228+/-0.470 χ^2/NDF : 180101.6/19

Left In: 1732.892+/-0.557 χ^2/NDF :16990.2/5

1771.563+/-0.368 χ^2/NDF : 205234.5/23

1755.261+/-0.359 χ^2/NDF : 199859.7/25

diff_bpm0i05Y_mean vs Slug



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

Left Out: 6.409 ± 0.664 χ^2/NDF : 79.0/6

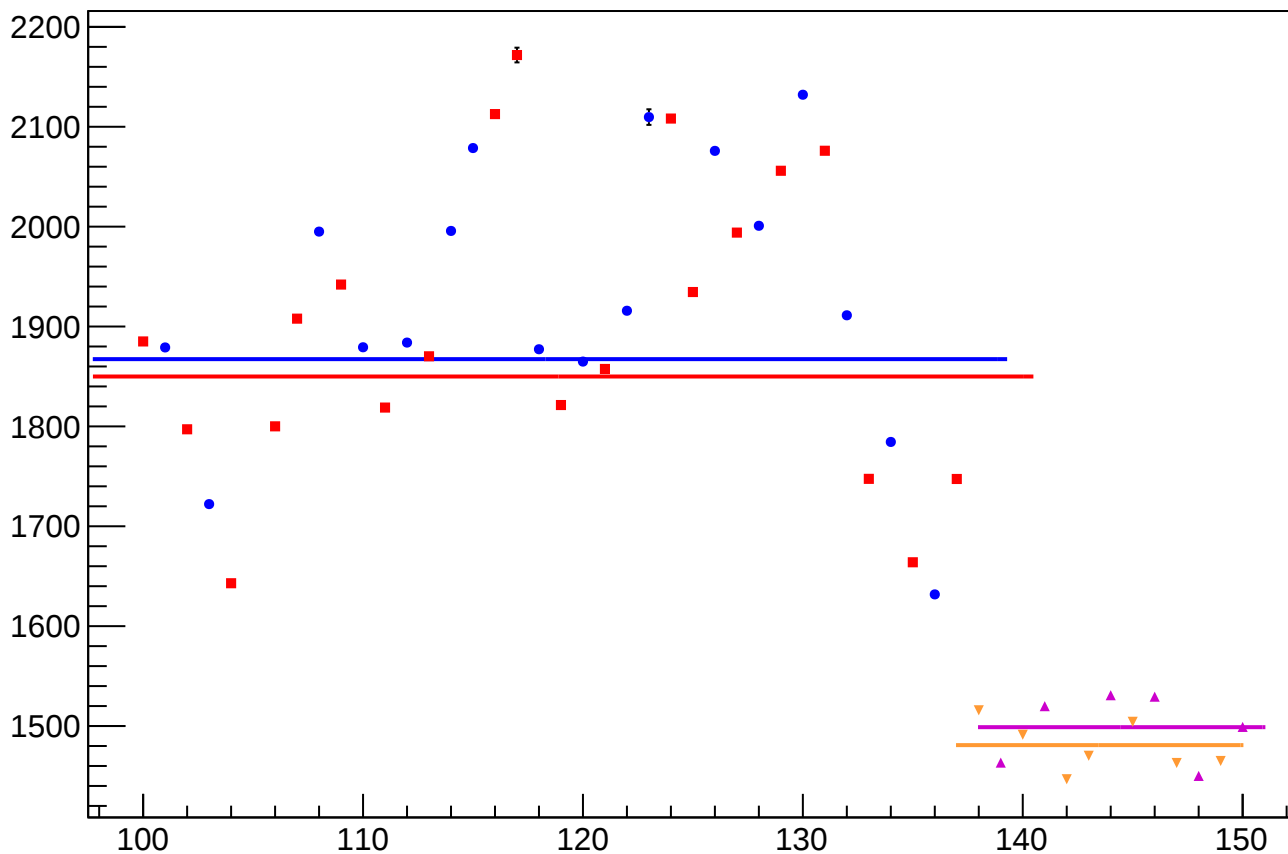
Right Out: -10.685 ± 0.692 χ^2/NDF : 643.2/19

Left In: -7.197 ± 0.680 χ^2/NDF : 42.1/5

10.793 ± 0.488 χ^2/NDF : 1112.6/23

-8.910 ± 0.485 χ^2/NDF : 698.2/25

diff_bpm0i05Y_rms vs Slug



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1480.886 $\pm$ 0.469 χ^2 /NDF:2198.0/6

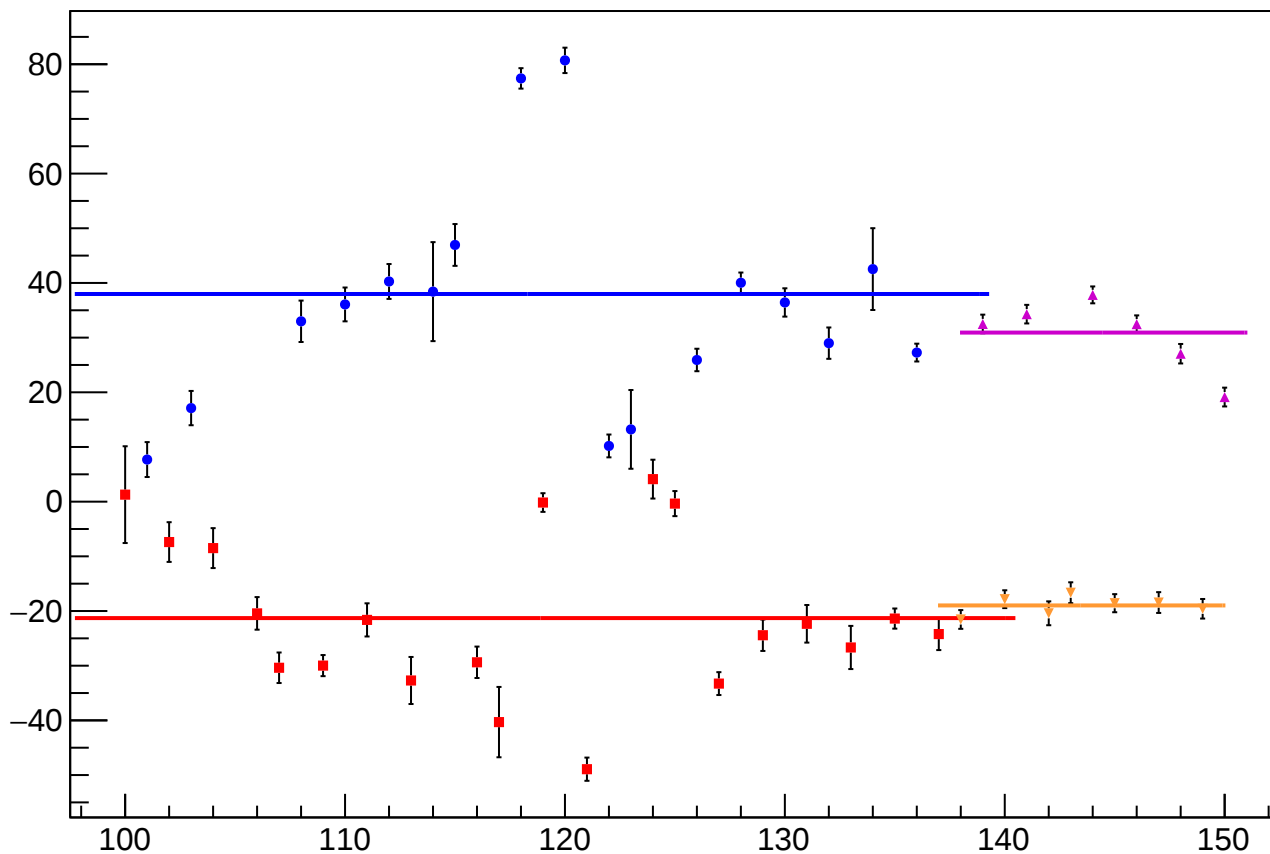
Right Out: 1849.954 $\pm$ 0.489 χ^2 /NDF: 74440.9/19

Left In: 1498.855 $\pm$ 0.481 χ^2 /NDF:4352.9/5

1657.966 $\pm$ 0.345 χ^2 /NDF: 393894.2/23

1671.295 $\pm$ 0.343 χ^2 /NDF: 340914.3/25

diff_bpm0i07X_mean vs Slug



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

Left Out: -18.979 ± 0.681 $\chi^2/\text{NDF}: 4.9/6$

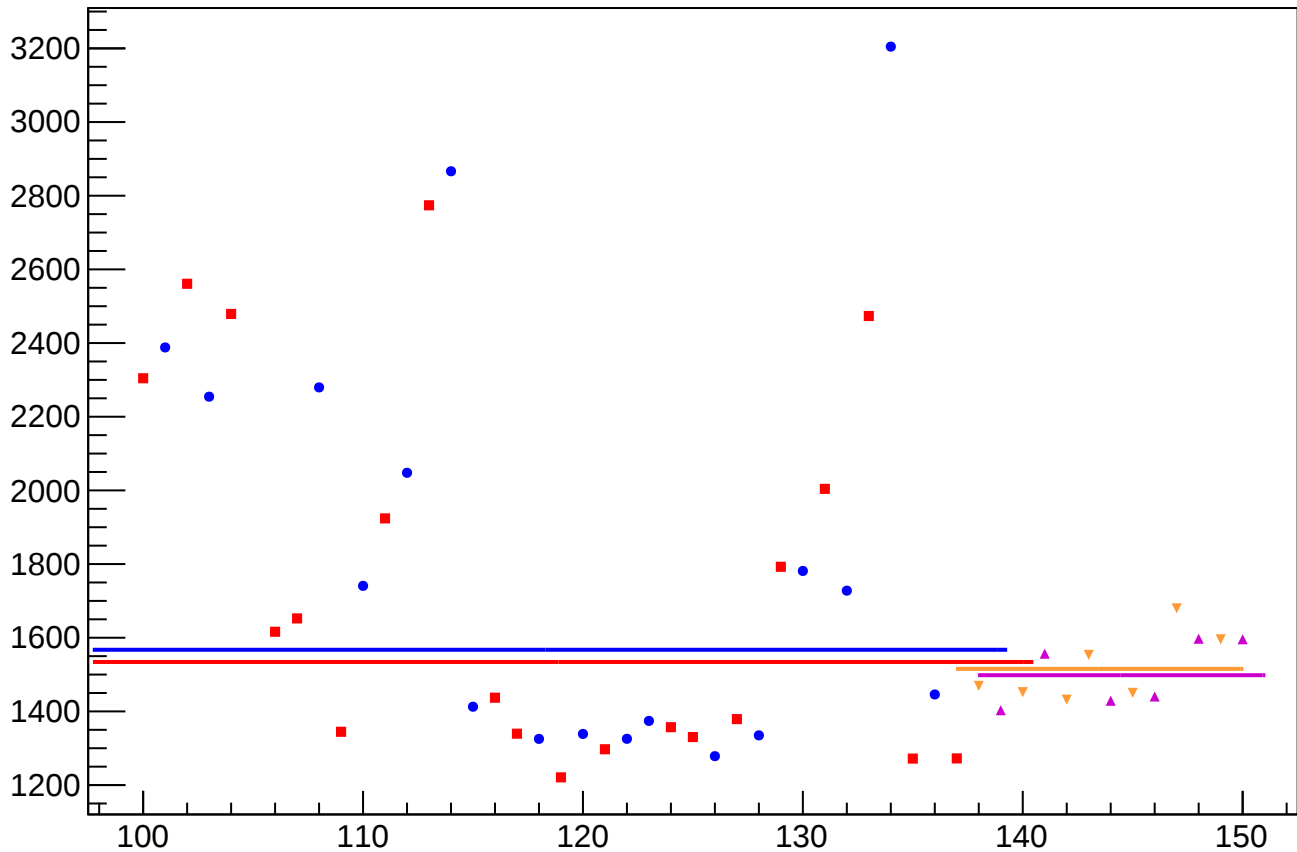
Right Out: -21.294 ± 0.606 $\chi^2/\text{NDF}: 582.5/19$

Left In: 30.921 ± 0.681 $\chi^2/\text{NDF}: 77.4/5$

11.391 ± 0.465 $\chi^2/\text{NDF}: 4937.0/23$

1.759 ± 0.453 $\chi^2/\text{NDF}: 3941.7/25$

diff_bpm0i07X_rms vs Slug



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

Left Out: 1515.485+/-0.482 χ^2 /NDF: 30258.0/6

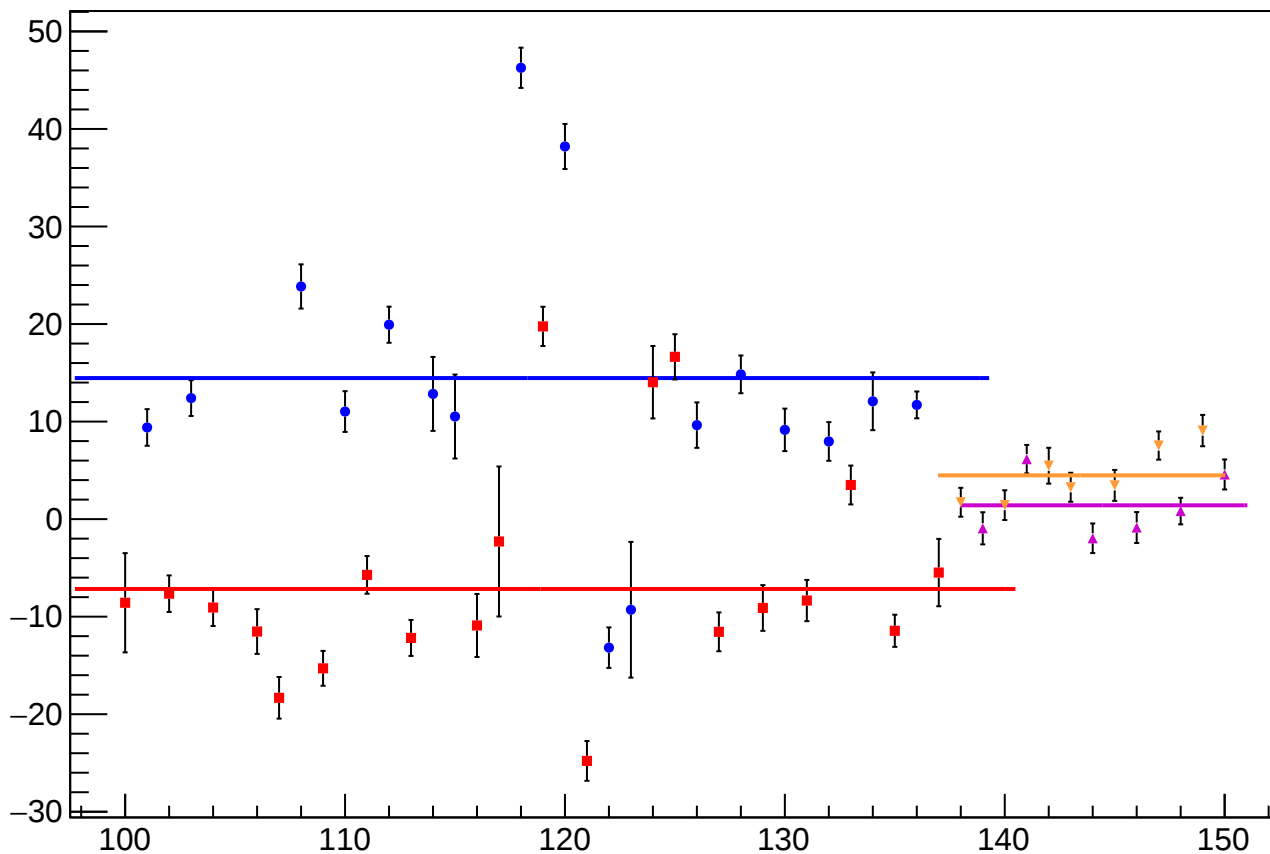
Right Out: 1534.225+/-0.428 χ^2 /NDF: 883947.6/19

Left In: 1498.327+/-0.482 χ^2 /NDF: 27873.0/5

1543.128+/-0.329 χ^2 /NDF: 709885.6/23

1518.376+/-0.320 χ^2 /NDF: 914922.9/25

diff_bpm0i07Y_mean vs Slug



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

Left Out: 4.488 ± 0.587 χ^2/NDF : 21.5/6

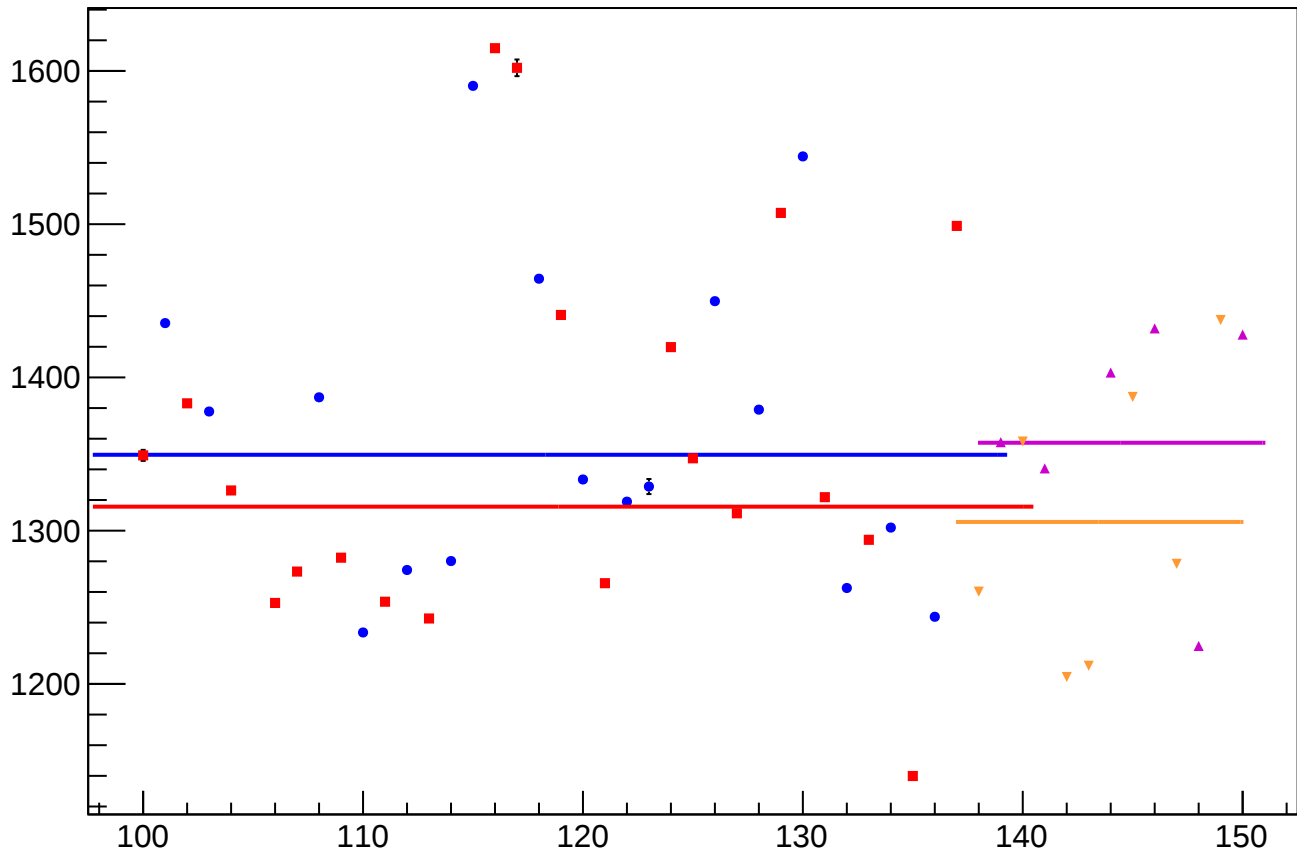
Right Out: -7.161 ± 0.493 χ^2/NDF : 496.1/19

Left In: 1.416 ± 0.617 χ^2/NDF : 24.0/5

10.047 ± 0.391 χ^2/NDF : 778.2/23

-3.814 ± 0.385 χ^2/NDF : 638.0/25

diff_bpm0i07Y_rms vs Slug



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

Left Out: 1305.689+/-0.415 χ^2/NDF : 37802.3/6

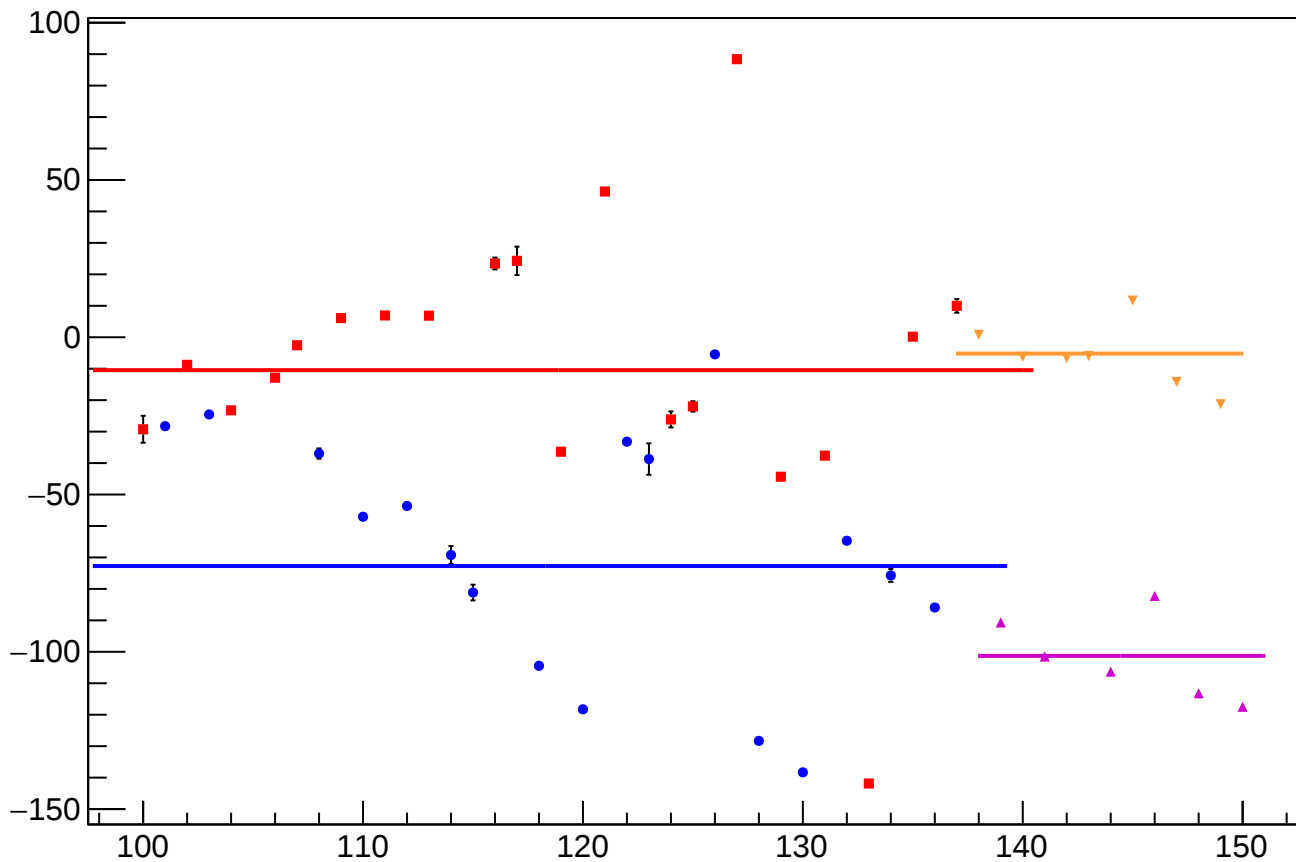
Right Out: 1315.669+/-0.349 χ^2/NDF : 83739.0/19

Left In: 1357.371+/-0.436 χ^2/NDF : 29668.8/5

1330.121+/-0.276 χ^2/NDF : 108682.8/23

1331.943+/-0.272 χ^2/NDF : 118984.5/25

diff_bpm1i02X_mean vs Slug



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

Left Out: -5.197 ± 0.432 $\chi^2/\text{NDF}: 530.3/6$

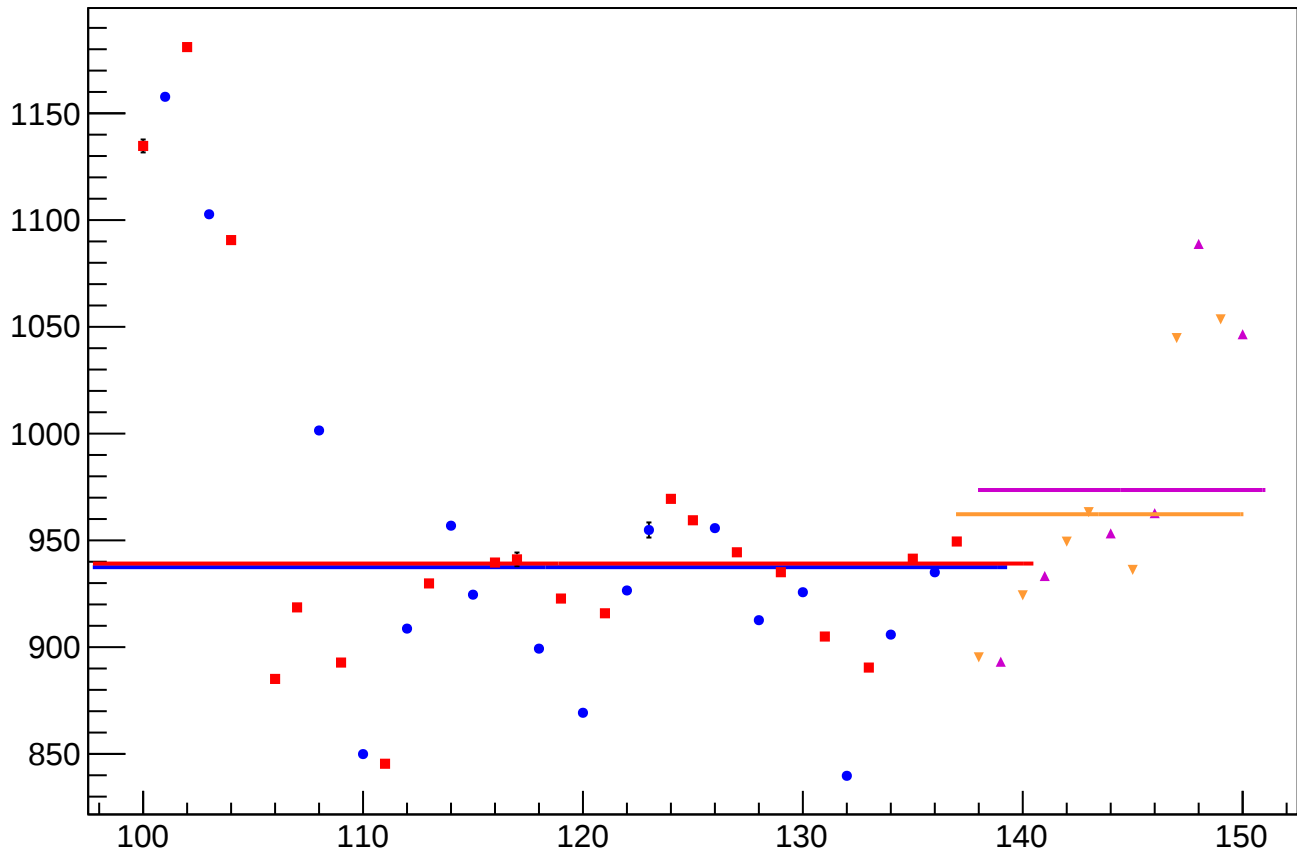
Right Out: -10.459 ± 0.351 $\chi^2/\text{NDF}: 18230.6/19$

Left In: -101.297 ± 0.442 $\chi^2/\text{NDF}: 742.8/5$

-44.834 ± 0.278 $\chi^2/\text{NDF}: 26576.7/23$

-45.625 ± 0.275 $\chi^2/\text{NDF}: 44863.7/25$

diff_bpm1i02X_rms vs Slug



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

Left Out: 962.246+/-0.305 χ^2/NDF : 34088.1/6

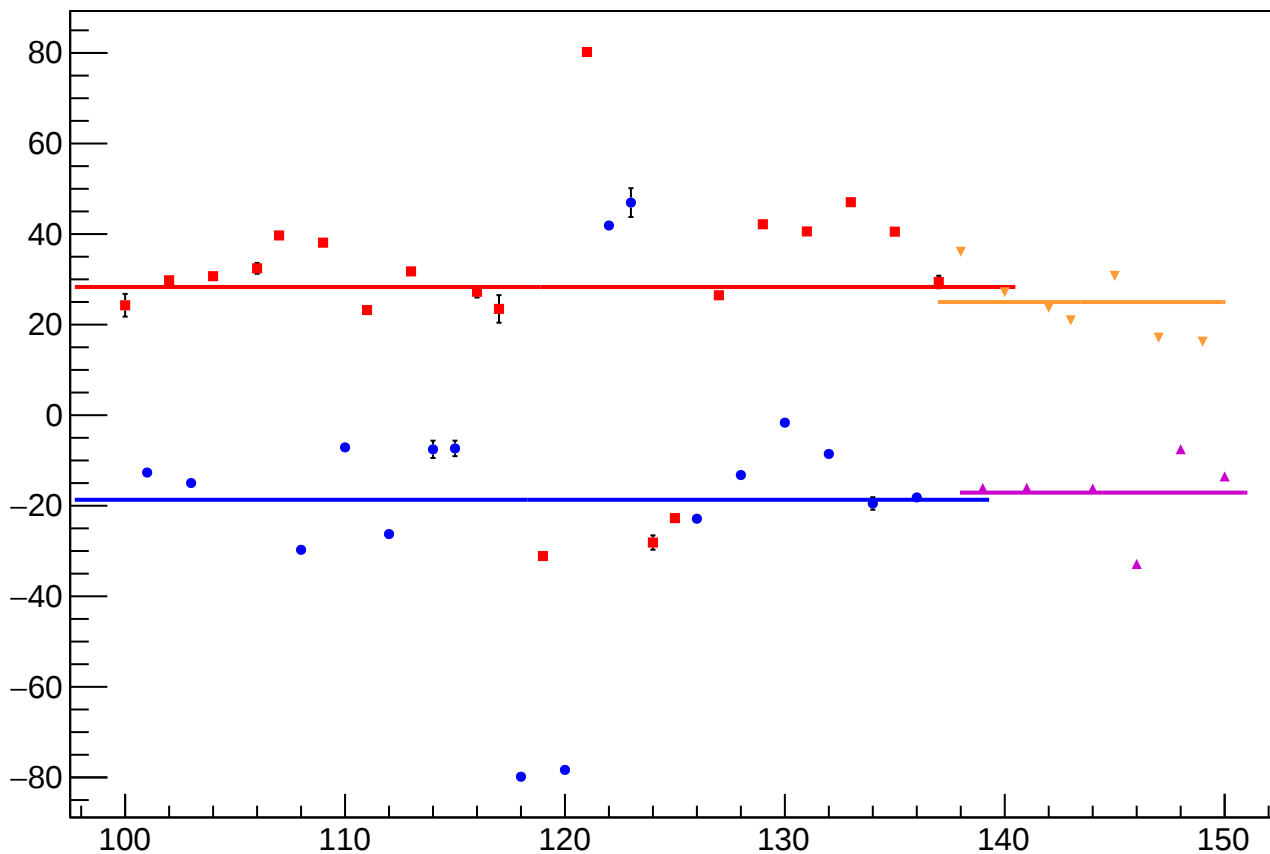
Right Out: 939.152+/-0.248 χ^2/NDF : 90253.6/19

Left In: 973.592+/-0.313 χ^2/NDF : 41724.0/5

947.697+/-0.196 χ^2/NDF : 136264.3/23

952.485+/-0.194 χ^2/NDF : 139420.9/25

diff_bpm1i02Y_mean vs Slug



Right In: -18.683+/-0.243 χ^2/NDF : 13006.2/16

Left Out: 24.995+/-0.295 χ^2/NDF : 550.3/6

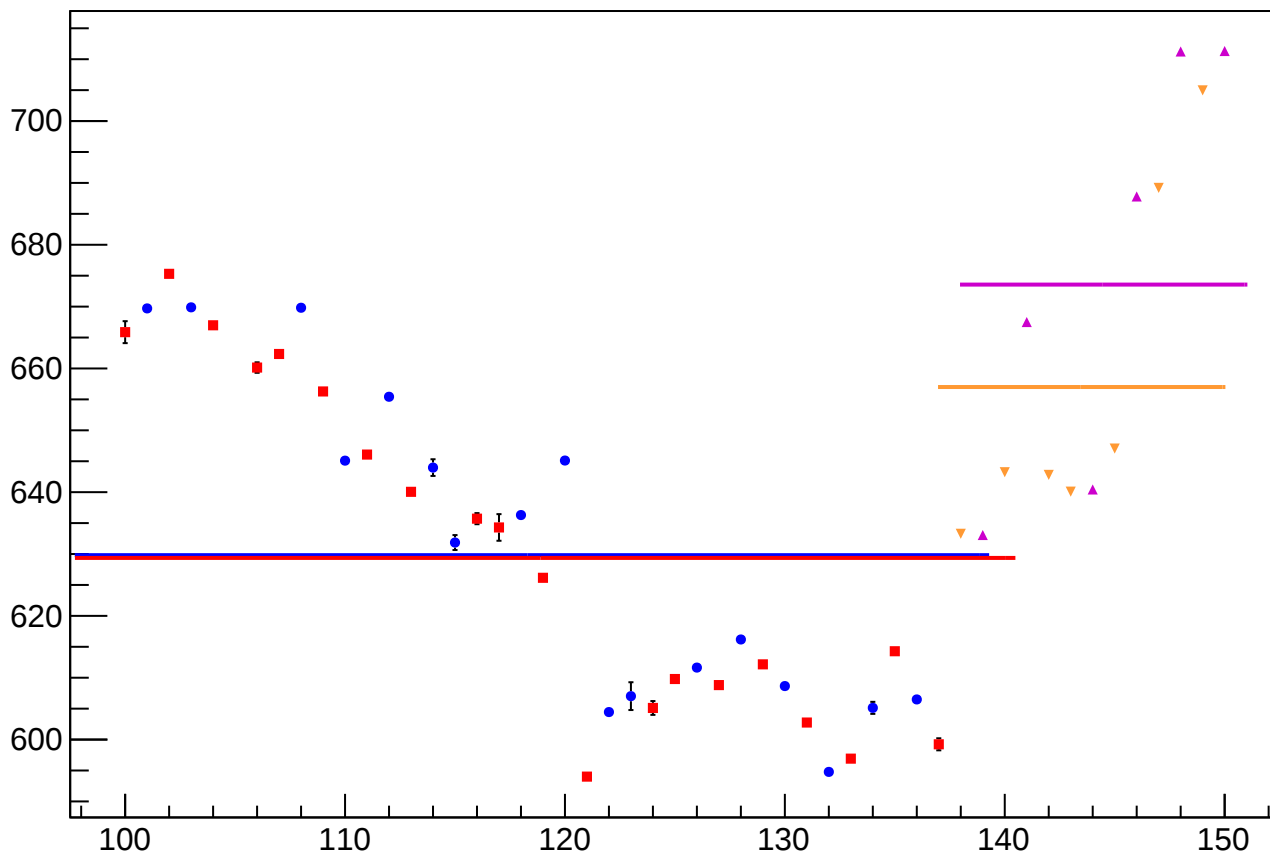
Right Out: 28.318+/-0.235 χ^2/NDF : 12510.6/19

Left In: -17.102+/-0.305 χ^2/NDF : 603.6/5

-1.021+/-0.187 χ^2/NDF : 26657.7/23

11.443+/-0.186 χ^2/NDF : 27021.8/25

diff_bpm1i02Y_rms vs Slug



Right In: 629.815 $\pm$ 0.172 χ^2 /NDF: 23298.3/16

Left Out: 657.000 $\pm$ 0.208 χ^2 /NDF: 15364.4/6

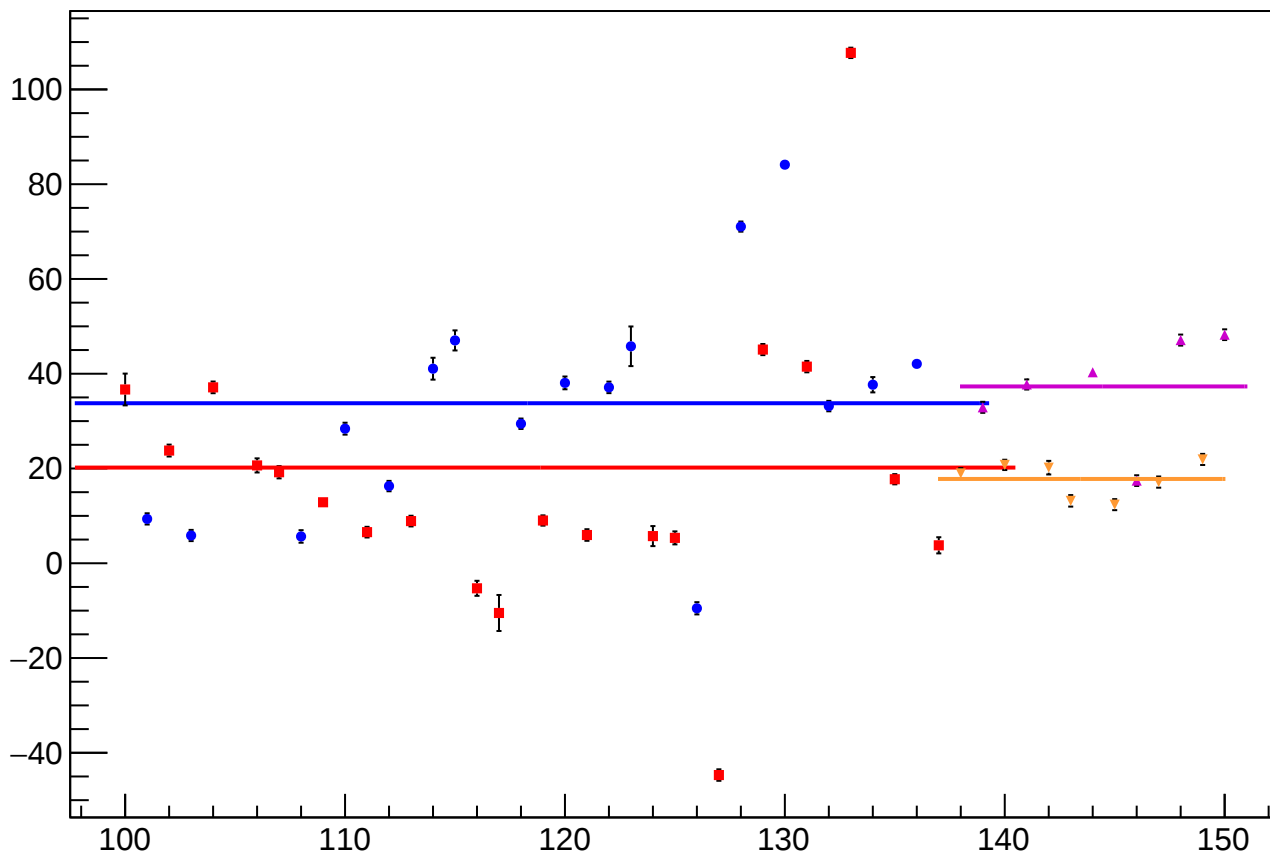
Right Out: 629.370 $\pm$ 0.166 χ^2 /NDF: 25543.7/19

Left In: 673.561 $\pm$ 0.216 χ^2 /NDF: 20435.4/5

640.808 $\pm$ 0.132 χ^2 /NDF: 48813.3/23

645.788 $\pm$ 0.132 χ^2 /NDF: 72310.6/25

diff_bpm1i04X_mean vs Slug



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

Left Out: 17.792 ± 0.448 χ^2/NDF : 60.1/6

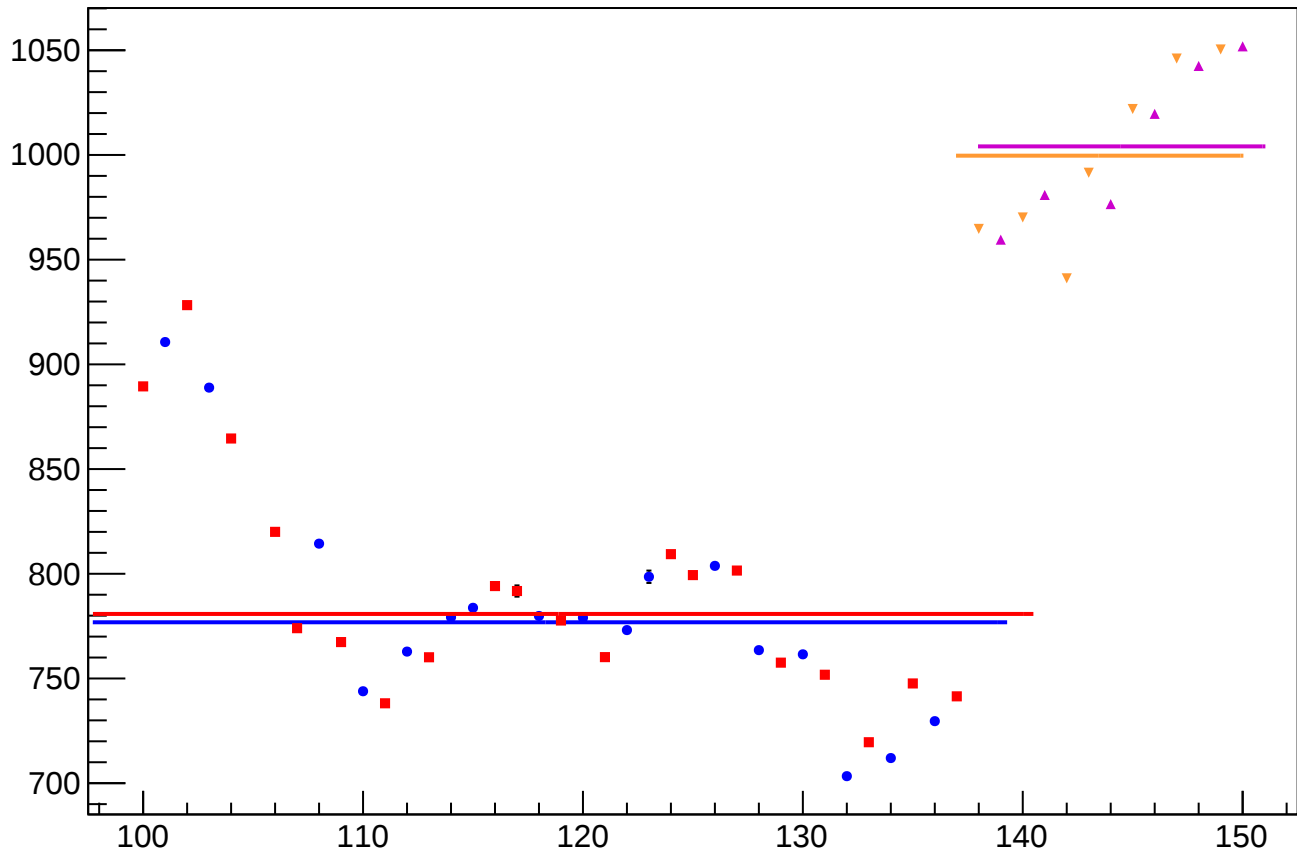
Right Out: 20.193 ± 0.292 χ^2/NDF : 11353.3/19

Left In: 37.317 ± 0.455 χ^2/NDF : 496.6/5

28.831 ± 0.249 χ^2/NDF : 7426.1/23

25.175 ± 0.246 χ^2/NDF : 12852.8/25

diff_bpm1i04X_rms vs Slug



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 999.656 $\pm$ 0.317 χ^2 /NDF:14381.4/6

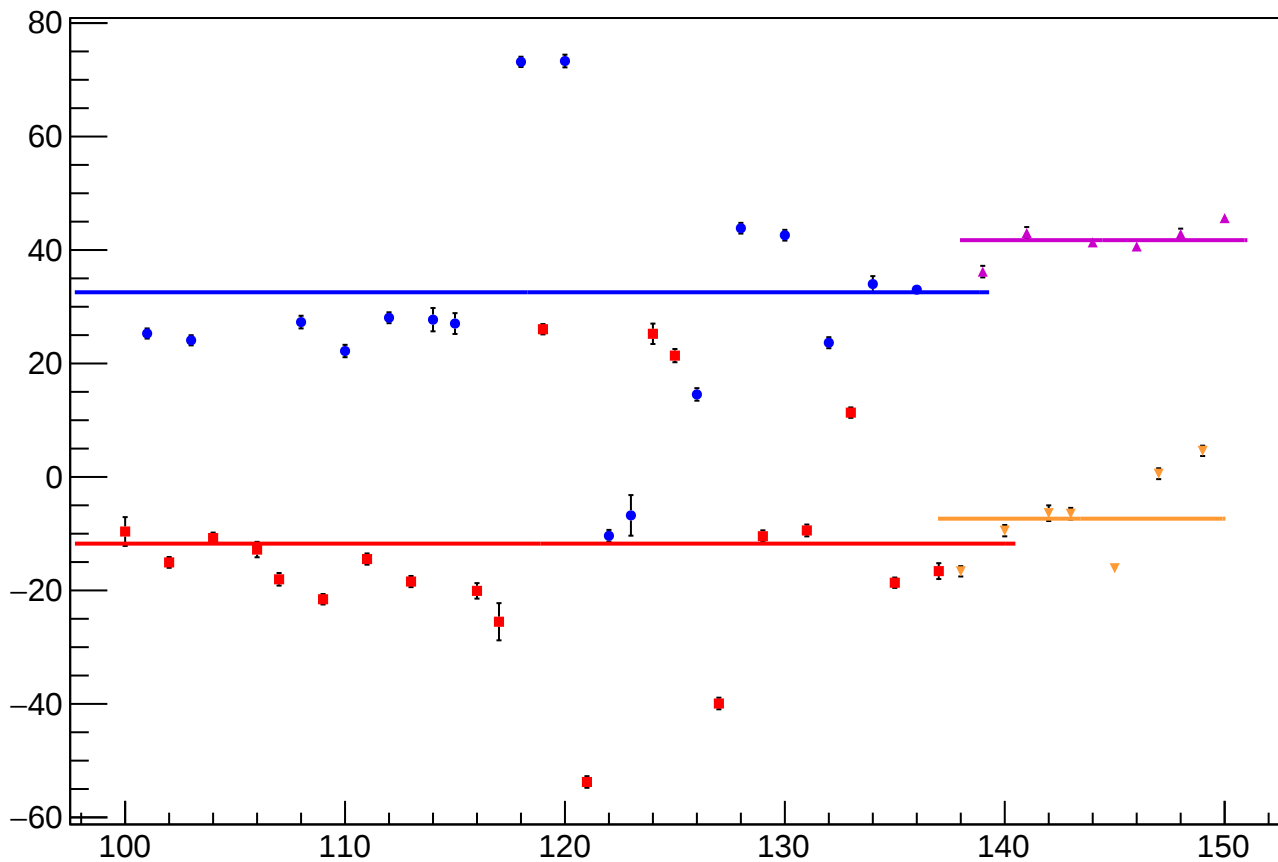
Right Out: 780.820 $\pm$ 0.206 χ^2 /NDF: 57445.6/19

Left In: 1004.091 $\pm$ 0.322 χ^2 /NDF:11375.4/5

845.745 $\pm$ 0.176 χ^2 /NDF: 423301.2/23

845.775 $\pm$ 0.174 χ^2 /NDF: 409797.3/25

diff_bpm1i04Y_mean vs Slug



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -7.353 ± 0.372 χ^2/NDF : 447.8/6

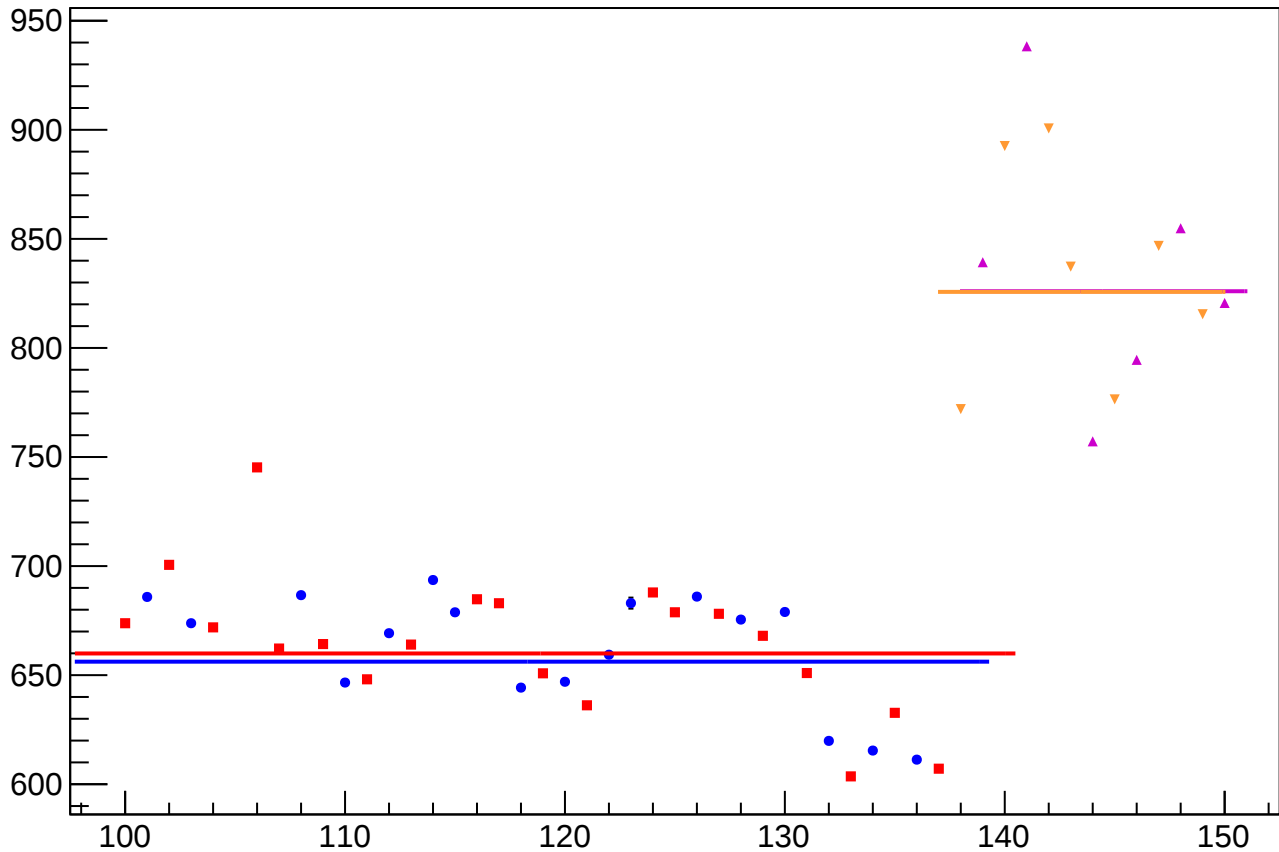
Right Out: -11.752 ± 0.246 χ^2/NDF : 6375.4/19

Left In: 41.738 ± 0.377 χ^2/NDF : 53.6/5

19.918 ± 0.209 χ^2/NDF : 14406.1/23

4.241 ± 0.206 χ^2/NDF : 20531.3/25

diff_bpm1i04Y_rms vs Slug



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

Left Out: 825.707+/-0.263 χ^2/NDF : 29441.6/6

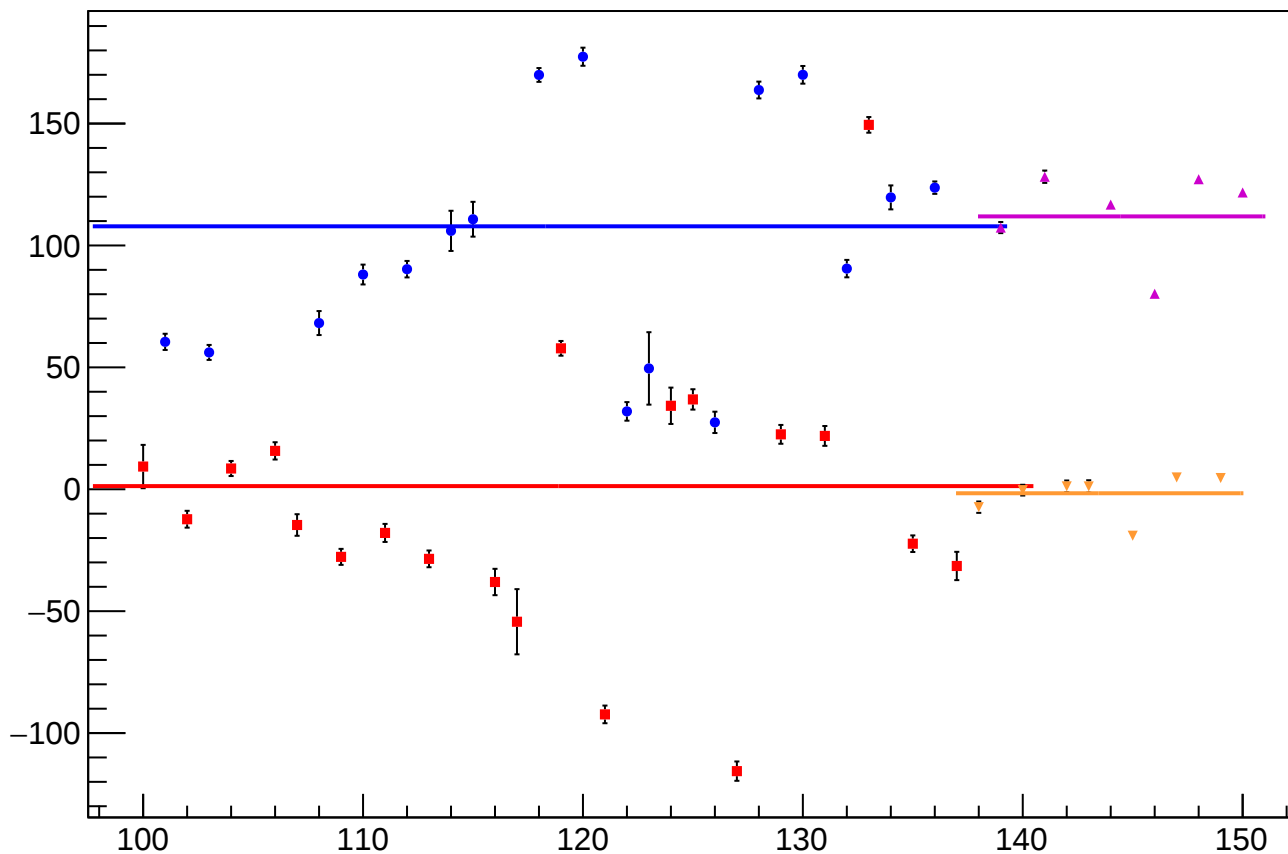
Right Out: 659.944+/-0.174 χ^2/NDF : 28425.0/19

Left In: 825.997+/-0.267 χ^2/NDF : 41890.5/5

709.854+/-0.148 χ^2/NDF : 337624.9/23

709.592+/-0.146 χ^2/NDF : 342132.9/25

diff_bpm1i06X_mean vs Slug



Right In: 107.852 $\pm$ 0.922 χ^2 /NDF: 2809.0/16

Left Out: -1.634 $\pm$ 0.788 χ^2 /NDF: 109.1/6

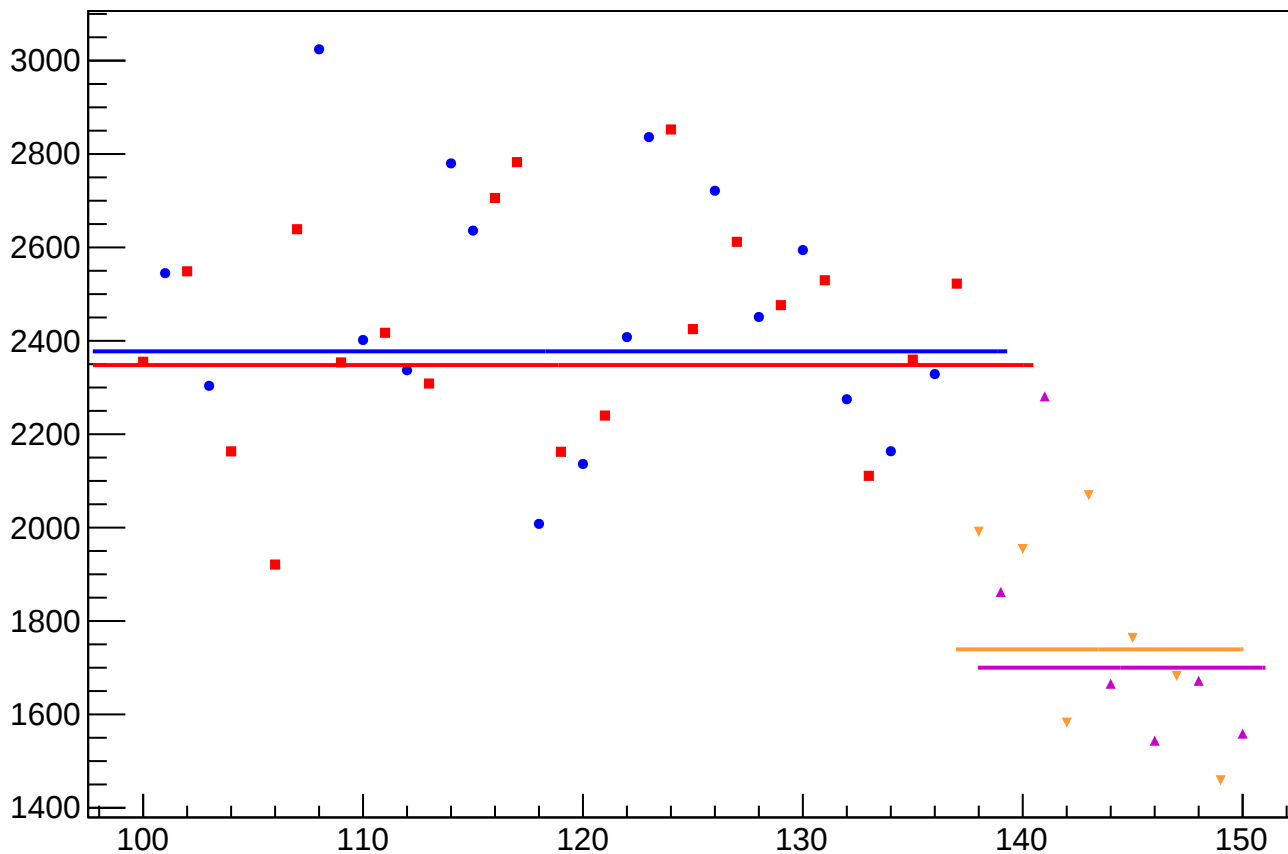
Right Out: 1.299 $\pm$ 0.881 χ^2 /NDF: 4541.1/19

Left In: 111.921 $\pm$ 0.784 χ^2 /NDF: 494.6/5

44.633 $\pm$ 0.599 χ^2 /NDF: 11068.5/23

63.046 $\pm$ 0.586 χ^2 /NDF: 13828.4/25

diff_bpm1i06X_rms vs Slug



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

Left Out: 1739.281+/-0.557 χ^2/NDF : 145387.8/6

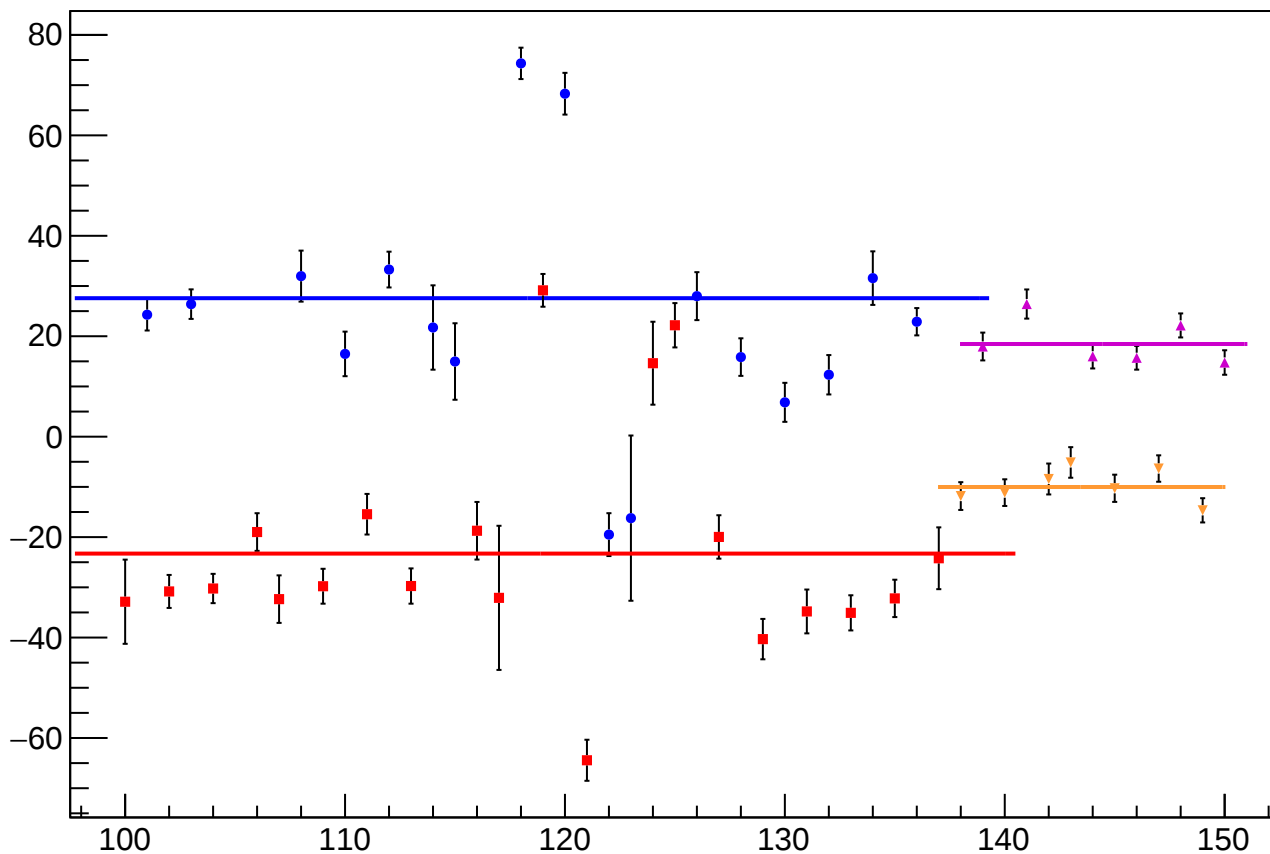
Right Out: 2348.017+/-0.623 χ^2/NDF : 110379.6/19

Left In: 1700.083+/-0.554 χ^2/NDF : 147310.0/5

2008.948+/-0.424 χ^2/NDF : 818807.8/23

1986.353+/-0.414 χ^2/NDF : 860988.1/25

diff_bpm1i06Y_mean vs Slug



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

Left Out: -10.022 ± 1.032 χ^2/NDF : 9.1/6

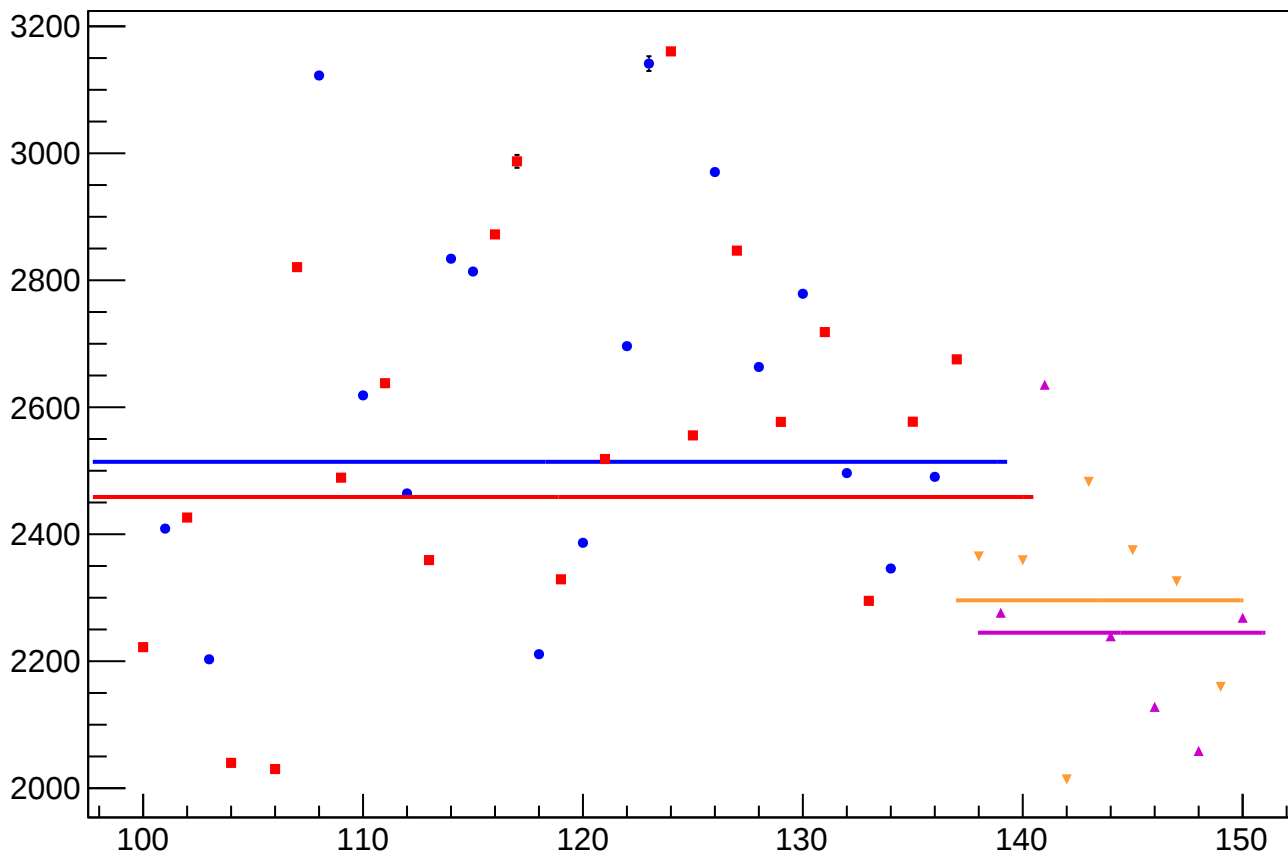
Right Out: -23.280 ± 0.925 χ^2/NDF : 558.2/19

Left In: 18.453 ± 1.031 χ^2/NDF : 14.6/5

9.857 ± 0.709 χ^2/NDF : 1229.8/23

-4.661 ± 0.688 χ^2/NDF : 1480.8/25

diff_bpm1i06Y_rms vs Slug



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

Left Out: 2295.900+/-0.730 χ^2/NDF : 35018.2/6

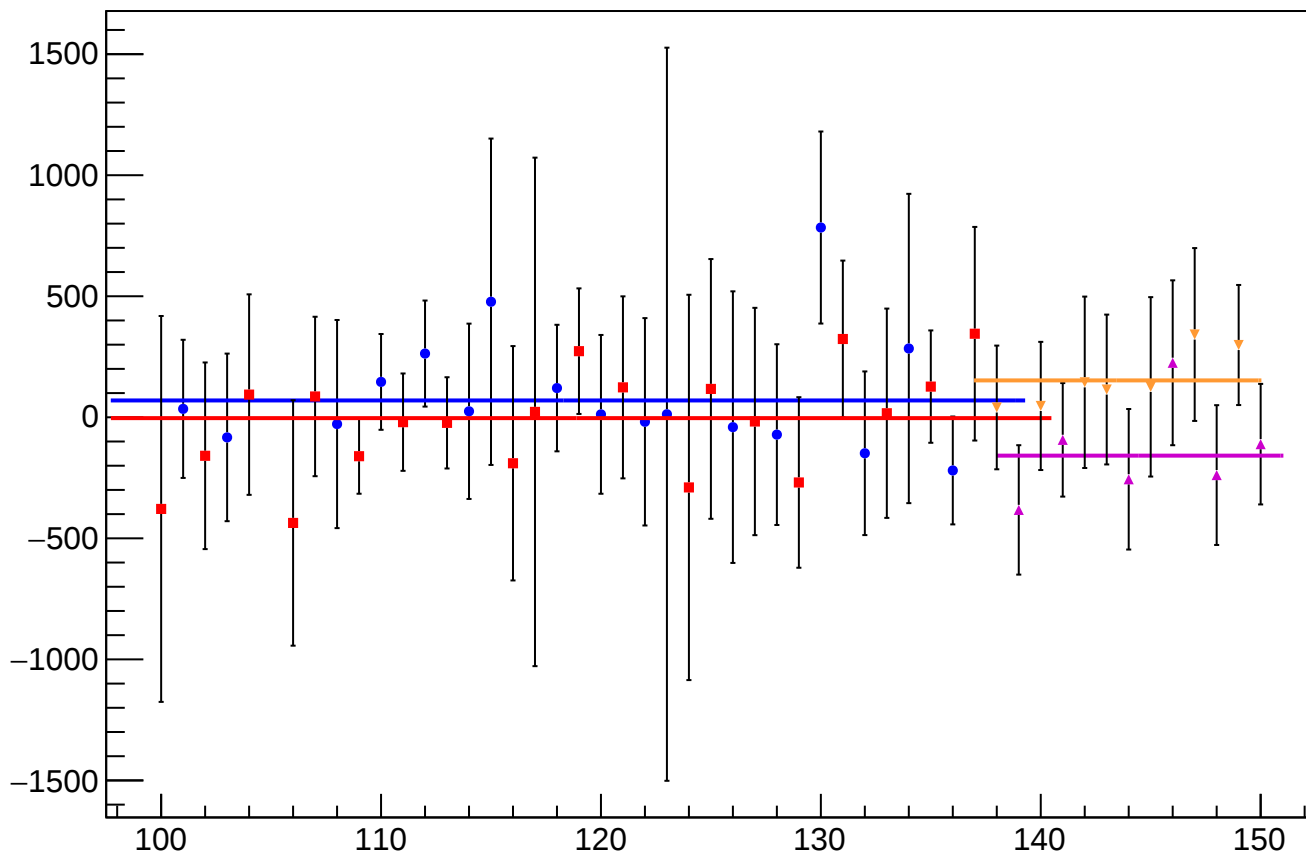
Right Out: 2458.665+/-0.654 χ^2/NDF : 152458.1/19

Left In: 2244.910+/-0.729 χ^2/NDF : 53671.8/5

2411.257+/-0.501 χ^2/NDF : 203206.0/23

2363.300+/-0.487 χ^2/NDF : 253771.2/25

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 152.371 $\pm$ 112.231 χ^2 /NDF:1.0/6

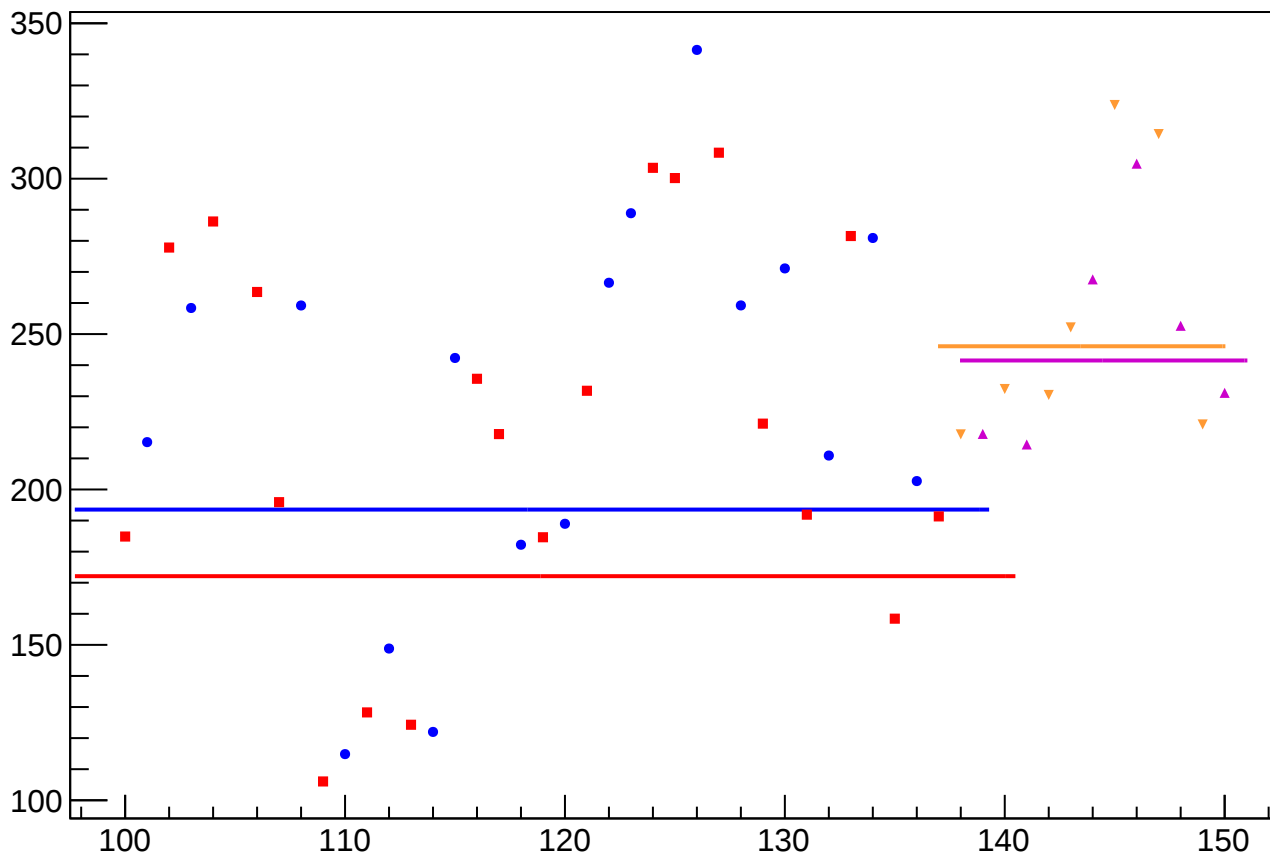
Right Out: -3.448 $\pm$ 69.825 χ^2 /NDF: 6.4/19

Left In: -158.393 $\pm$ 111.252 χ^2 /NDF:2.3/5

97.026 $\pm$ 64.613 χ^2 /NDF: 8.7/23

-47.234 $\pm$ 59.141 χ^2 /NDF: 10.1/25

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: 246.079+/-0.079 χ^2/NDF :216194.2/6

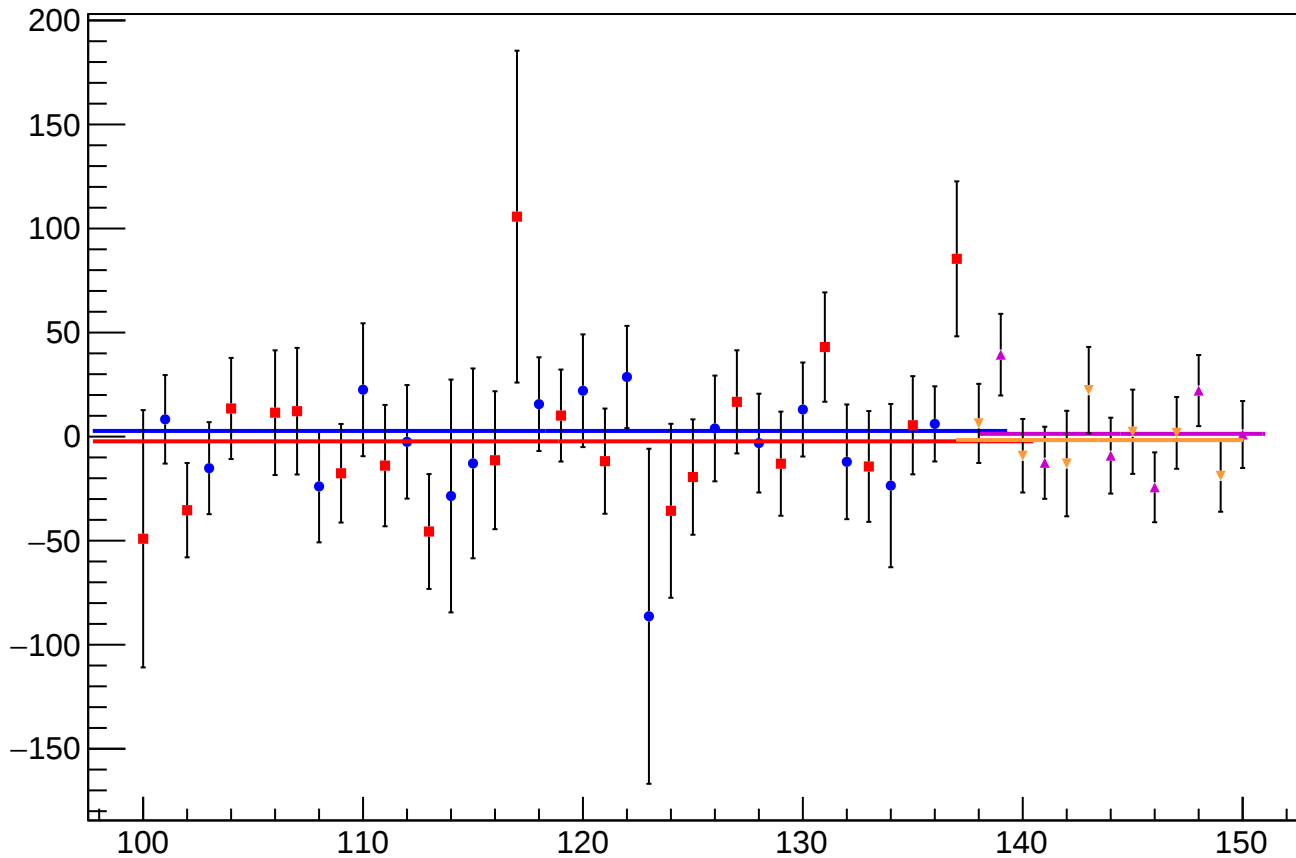
210.950+/-0.046 χ^2/NDF : 1519726.6/23

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

191.716+/-0.042 χ^2/NDF : 2273048.8/25

Left In: 241.505+/-0.079 χ^2/NDF :133992.5/5

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16

Left Out: -1.668 $\pm$ 7.255 χ^2 /NDF: 3.0/6

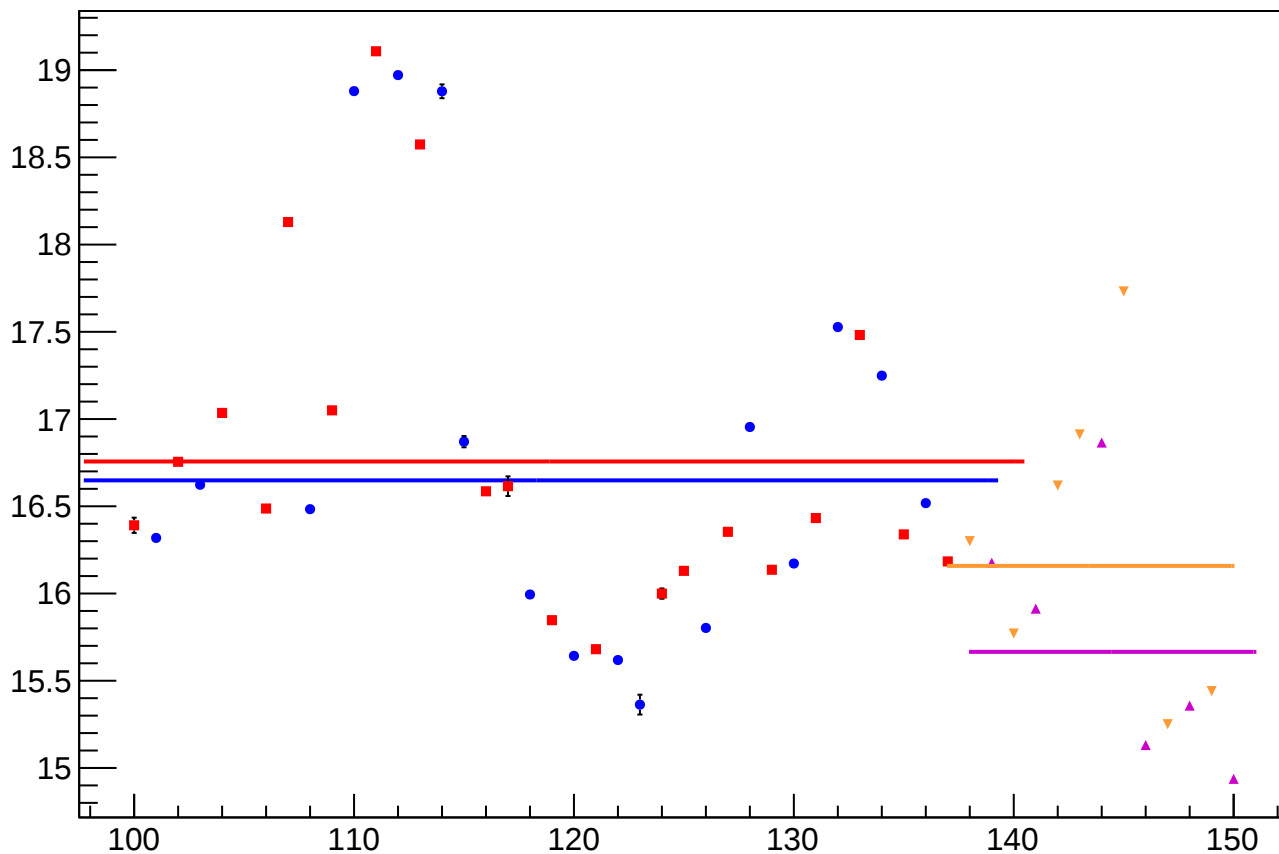
Right Out: -2.259 $\pm$ 6.259 χ^2 /NDF: 19.6/19

Left In: 1.332 $\pm$ 7.110 χ^2 /NDF: 8.6/5

0.799 $\pm$ 4.810 χ^2 /NDF: 9.9/23

-0.691 $\pm$ 4.698 χ^2 /NDF: 28.3/25

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: 16.158 ± 0.005 χ^2/NDF : 25450.2/6

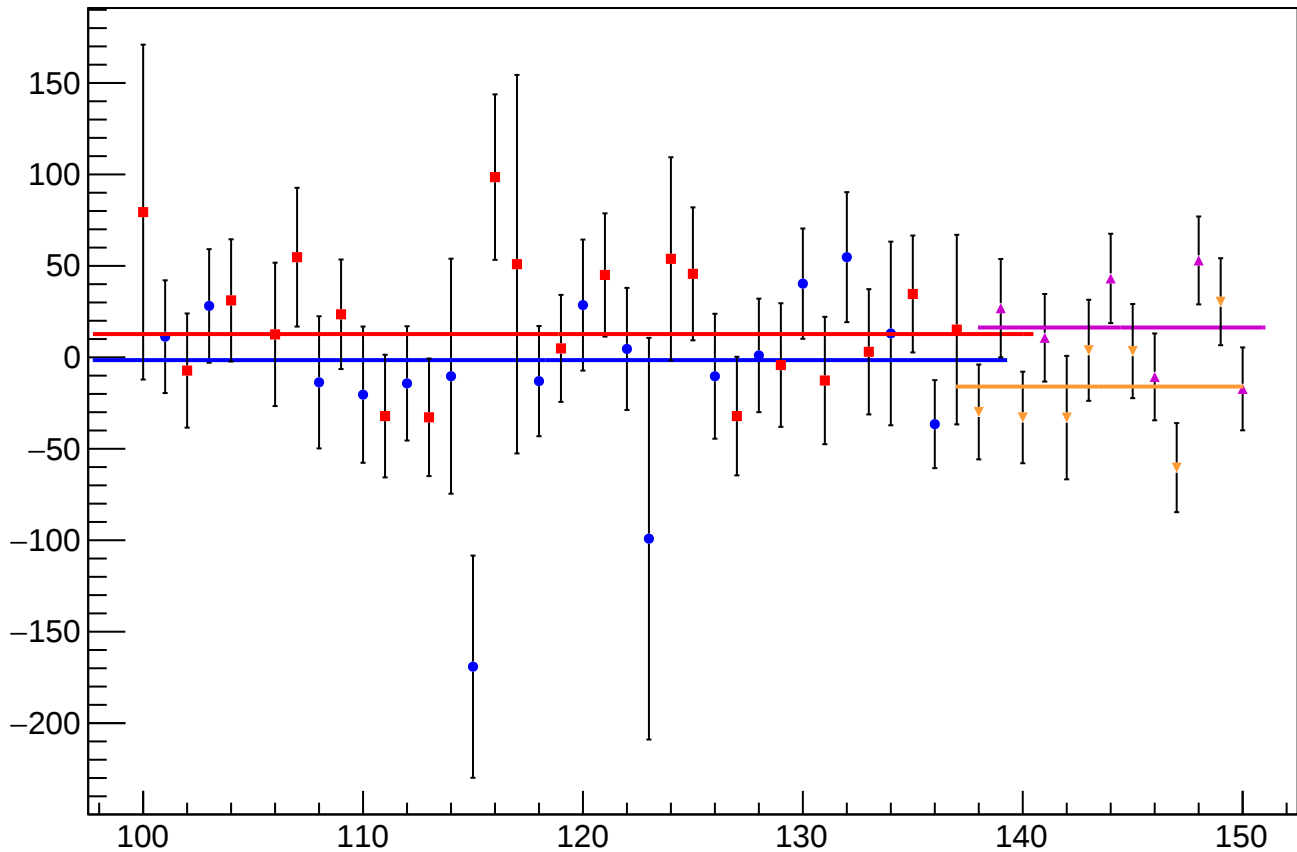
Right Out: 16.757 ± 0.004 χ^2/NDF : 39957.1/19

Left In: 15.666 ± 0.005 χ^2/NDF : 17198.2/5

16.433 ± 0.003 χ^2/NDF : 73134.1/23

16.280 ± 0.003 χ^2/NDF : 83696.8/25

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: -15.987 ± 9.883 $\chi^2/\text{NDF}: 9.2/6$

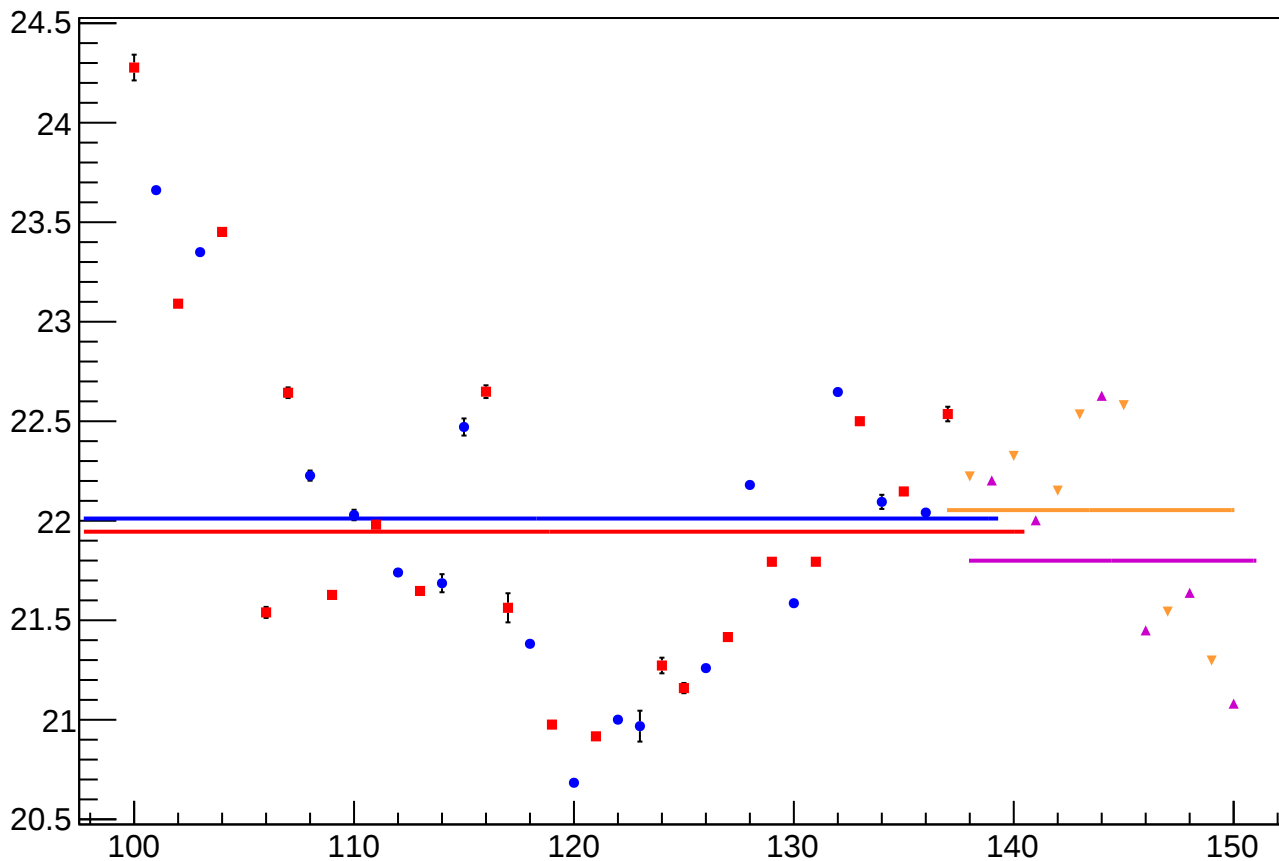
Right Out: 12.716 ± 8.185 $\chi^2/\text{NDF}: 15.7/19$

Left In: 16.313 ± 9.876 $\chi^2/\text{NDF}: 7.2/5$

-7.661 ± 6.438 $\chi^2/\text{NDF}: 28.1/23$

14.181 ± 6.302 $\chi^2/\text{NDF}: 23.0/25$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 22.011+/-0.006 χ^2/NDF : 17546.9/16

Left Out: 22.054+/-0.007 χ^2/NDF : 4681.9/6

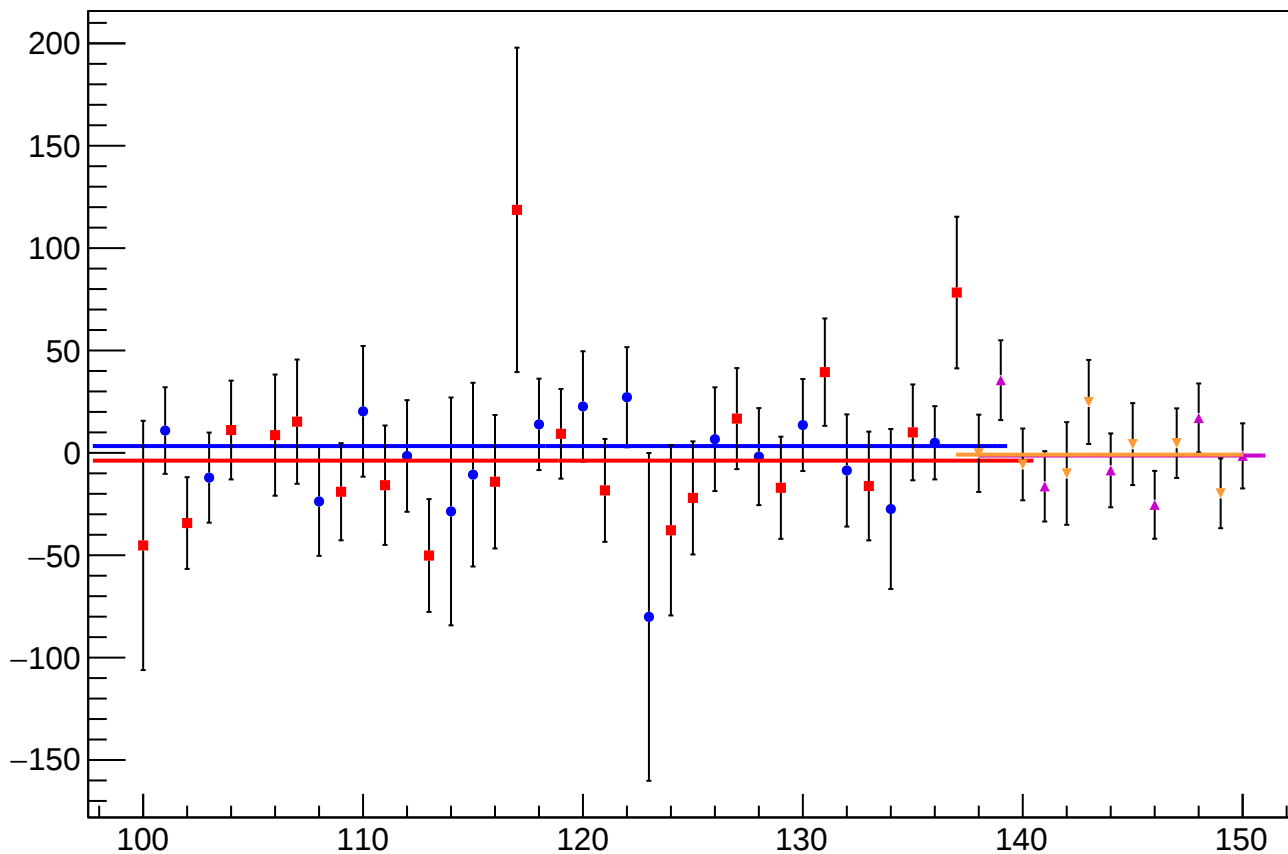
22.029+/-0.005 χ^2/NDF : 22250.0/23

Right Out: 21.945+/-0.006 χ^2/NDF : 16620.2/19

21.886+/-0.004 χ^2/NDF : 22303.6/25

Left In: 21.799+/-0.007 χ^2/NDF : 5425.6/5

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: -0.864 ± 7.176 χ^2/NDF : 3.2/6

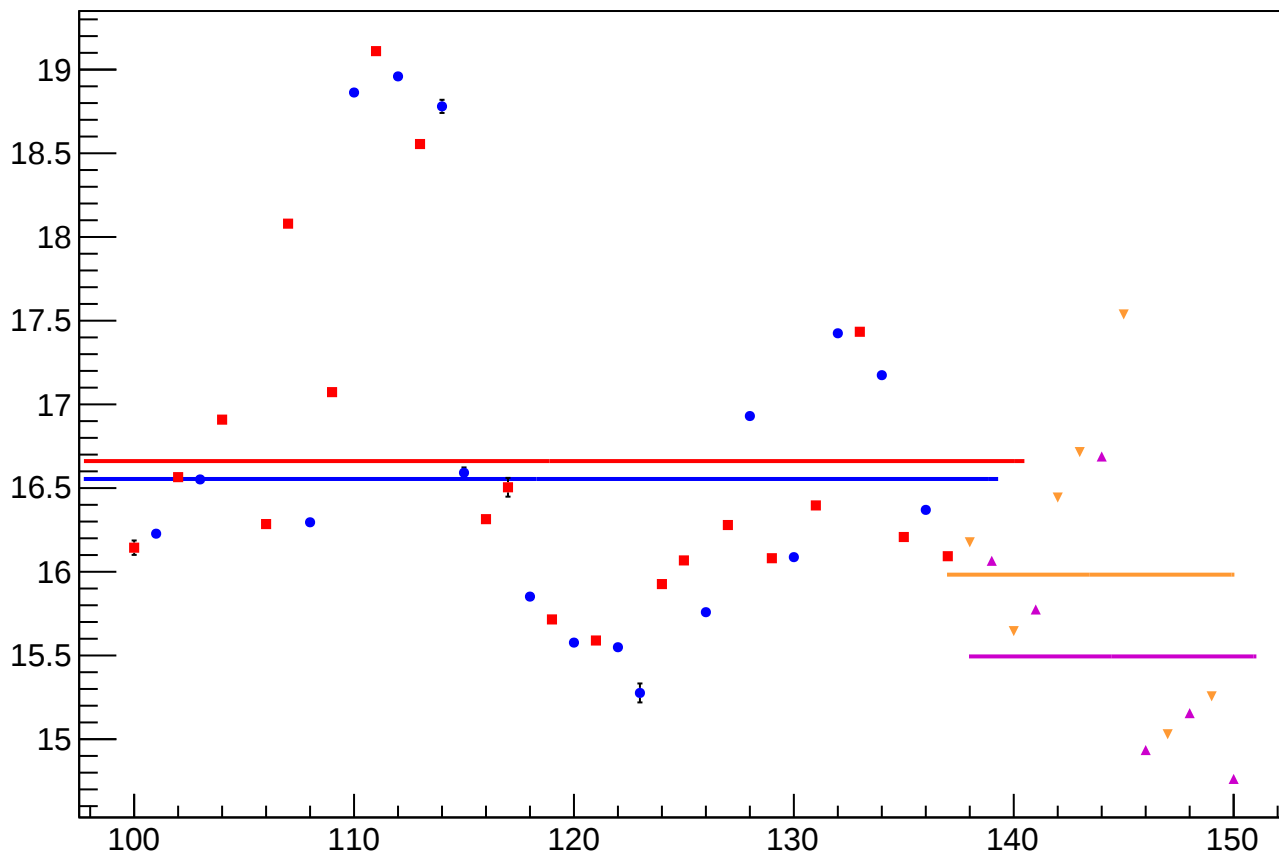
Right Out: -3.800 ± 6.224 χ^2/NDF : 20.1/19

Left In: -1.309 ± 7.033 χ^2/NDF : 7.8/5

1.468 ± 4.772 χ^2/NDF : 9.6/23

-2.706 ± 4.661 χ^2/NDF : 28.0/25

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: 15.983+/-0.005 χ^2/NDF : 26163.5/6

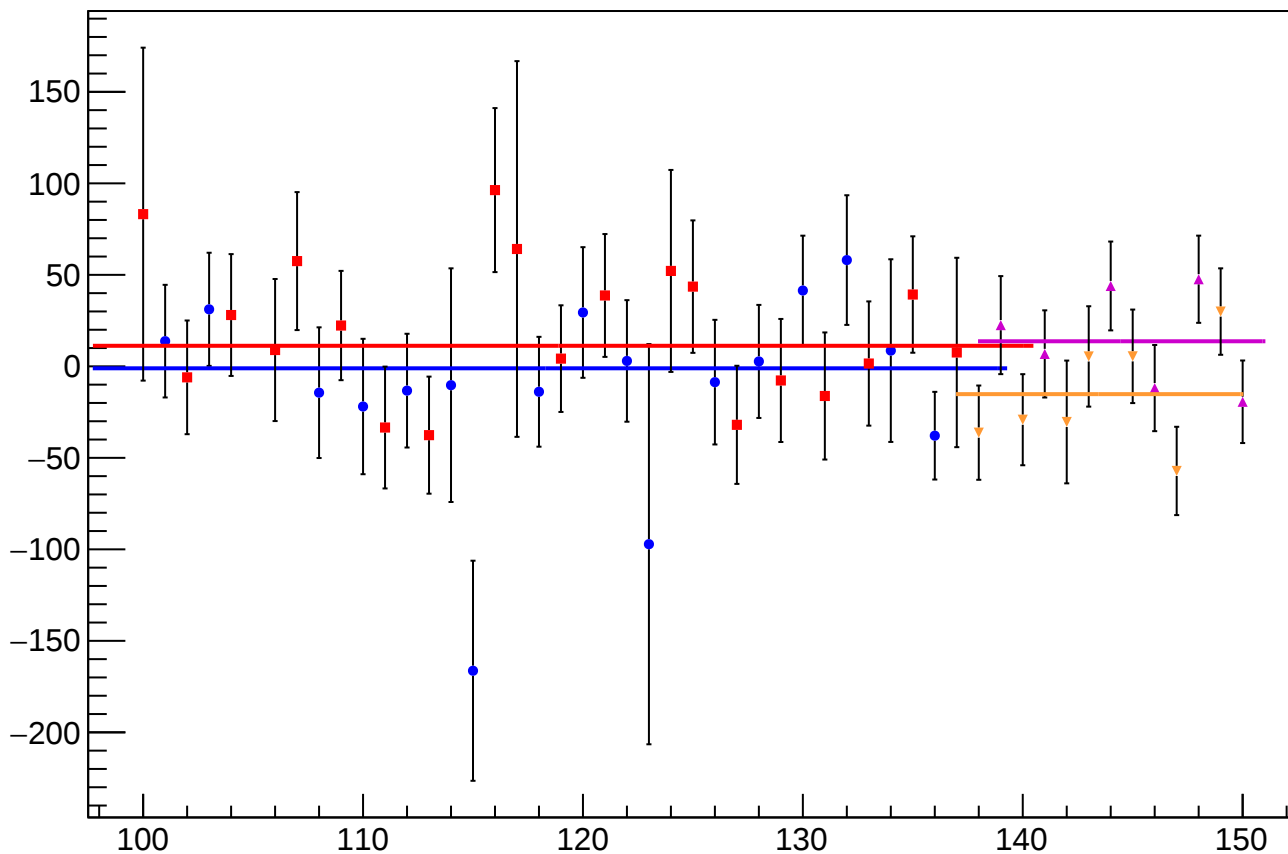
Right Out: 16.661+/-0.004 χ^2/NDF : 43071.4/19

Left In: 15.494+/-0.005 χ^2/NDF : 18346.8/5

16.302+/-0.003 χ^2/NDF : 77715.5/23

16.149+/-0.003 χ^2/NDF : 92297.9/25

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: -1.068 ± 8.444 $\chi^2/\text{NDF}: 18.5/16$

Left Out: -15.185 ± 9.815 $\chi^2/\text{NDF}: 9.1/6$

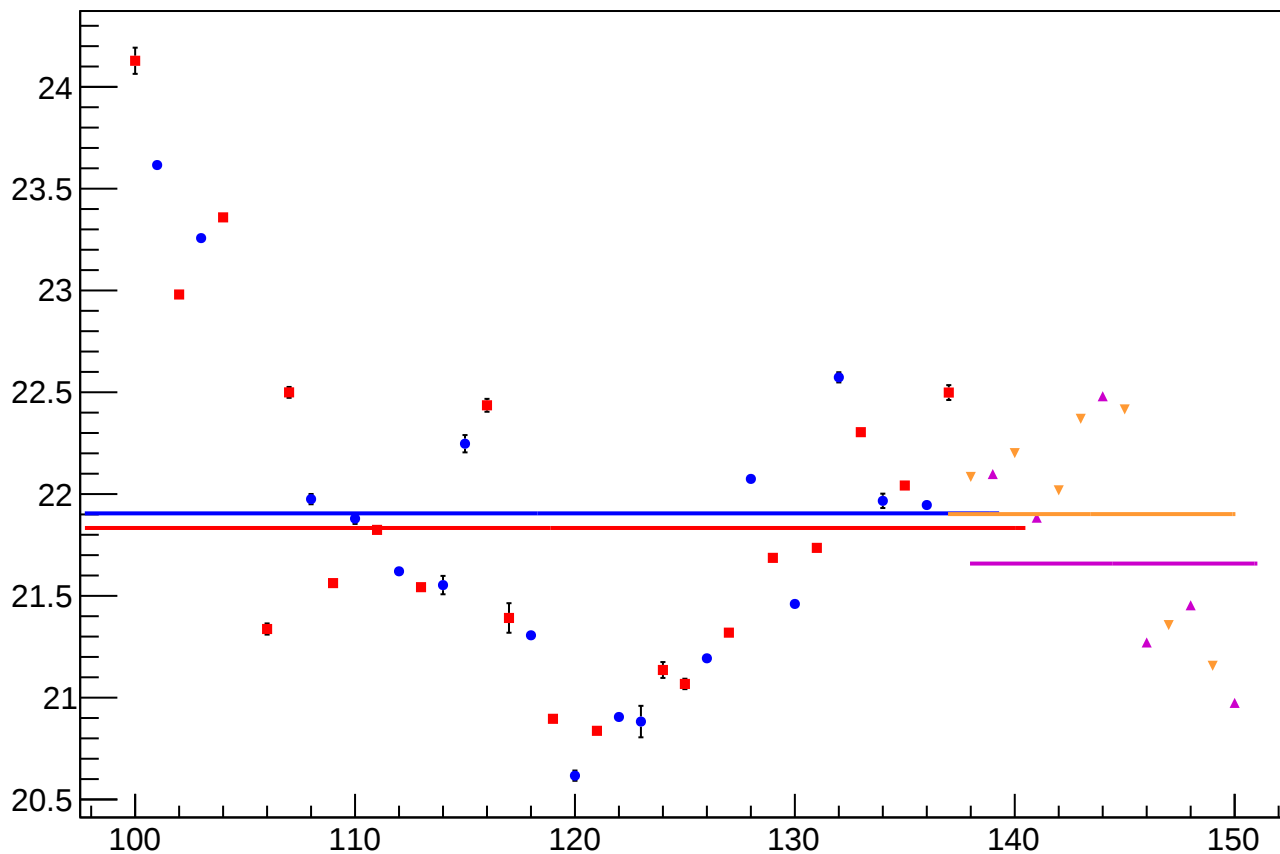
Right Out: 11.235 ± 8.143 $\chi^2/\text{NDF}: 16.5/19$

Left In: 13.705 ± 9.813 $\chi^2/\text{NDF}: 7.1/5$

-7.073 ± 6.401 $\chi^2/\text{NDF}: 28.7/23$

12.242 ± 6.266 $\chi^2/\text{NDF}: 23.6/25$

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: 21.902+/-0.007 χ^2/NDF : 4817.1/6

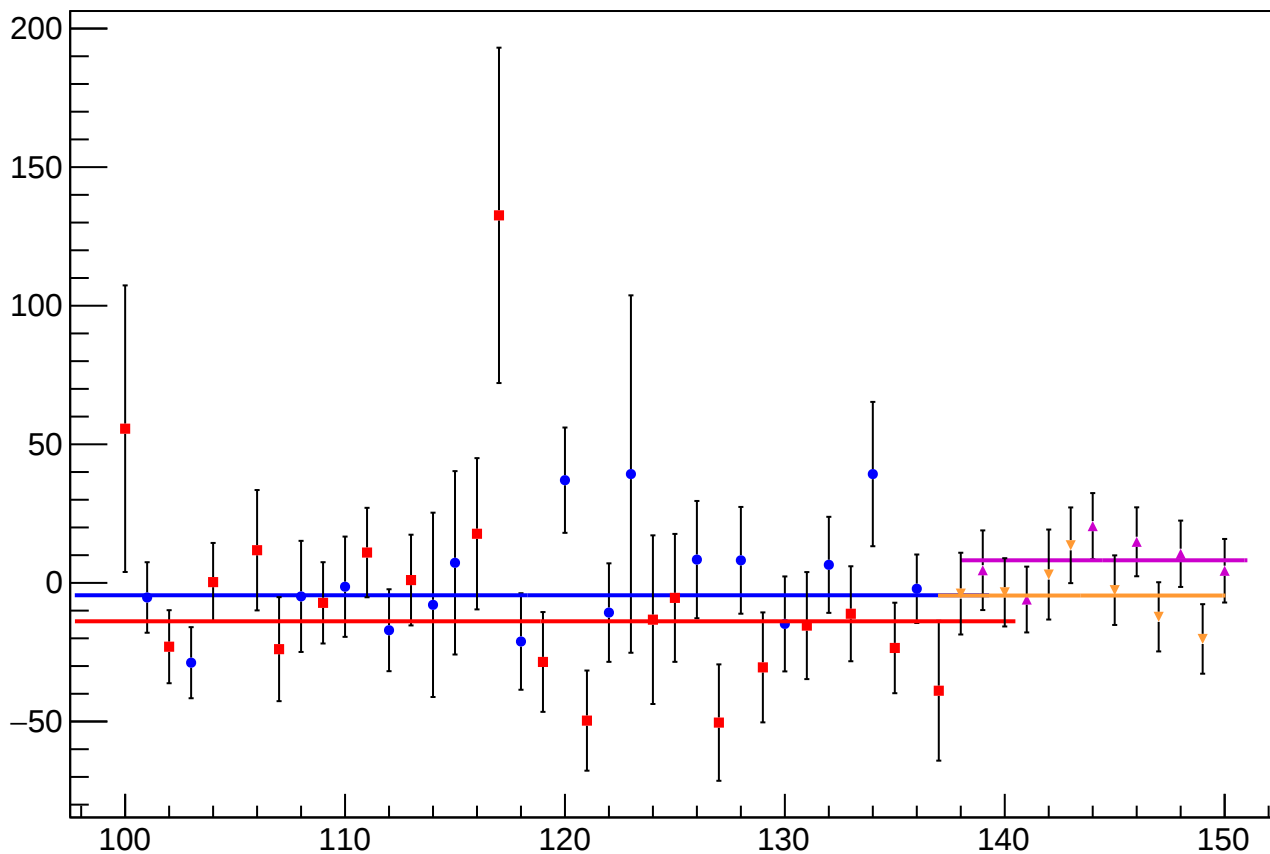
Right Out: 21.833+/-0.006 χ^2/NDF : 16288.5/19

Left In: 21.659+/-0.007 χ^2/NDF : 5541.4/5

21.904+/-0.005 χ^2/NDF : 22611.5/23

21.762+/-0.004 χ^2/NDF : 22205.7/25

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: -4.554 ± 5.034 χ^2/NDF : 4.0/6

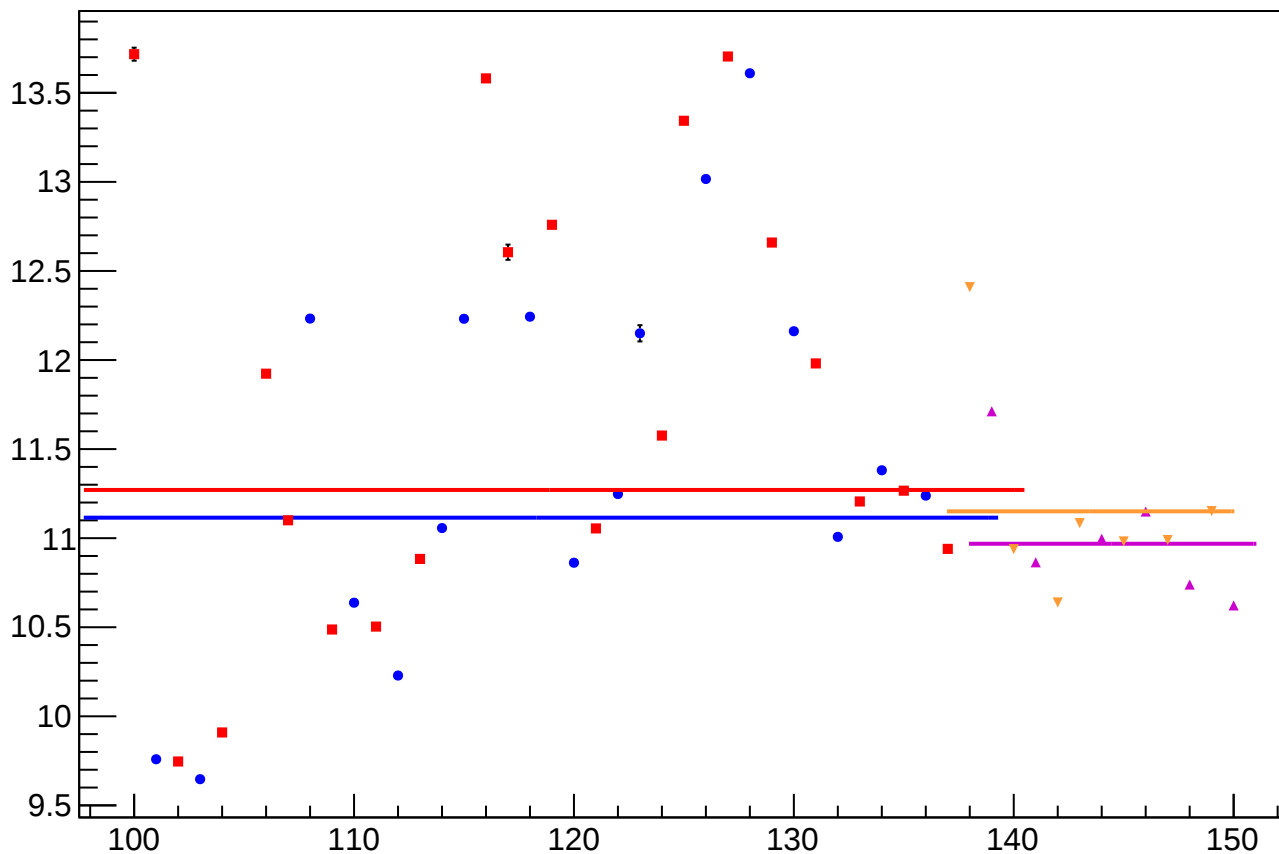
Right Out: -13.851 ± 4.253 χ^2/NDF : 25.4/19

Left In: 8.154 ± 4.998 χ^2/NDF : 3.0/5

-4.500 ± 3.282 χ^2/NDF : 19.1/23

-4.607 ± 3.239 χ^2/NDF : 39.6/25

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 11.115 ± 0.003 χ^2/NDF : 133059.3/16

Left Out: 11.151 ± 0.004 χ^2/NDF : 17881.6/6

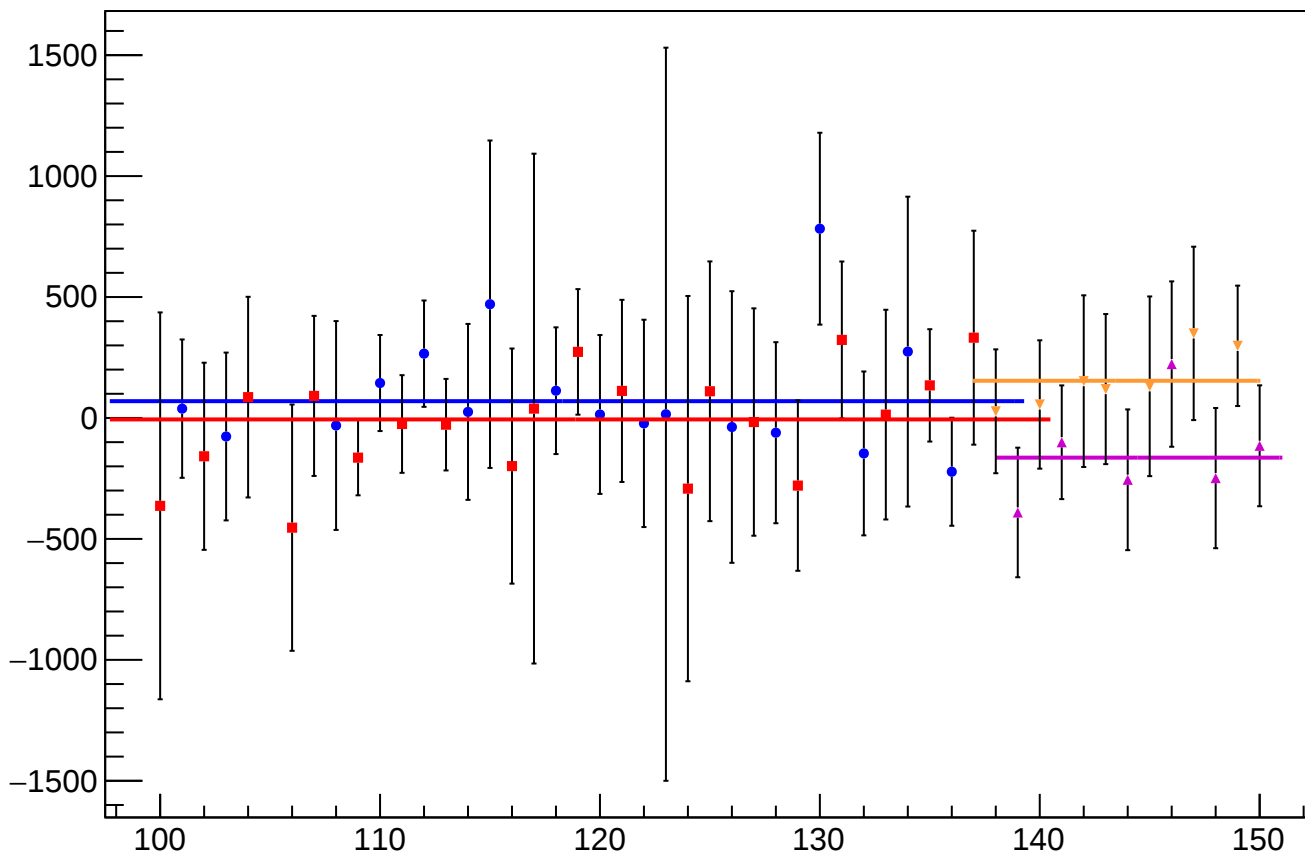
Right Out: 11.271 ± 0.003 χ^2/NDF : 148461.6/19

Left In: 10.969 ± 0.004 χ^2/NDF : 8500.3/5

11.130 ± 0.002 χ^2/NDF : 150998.2/23

11.144 ± 0.002 χ^2/NDF : 161197.5/25

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: 153.848+/-112.541 χ^2/NDF : 1.0/6

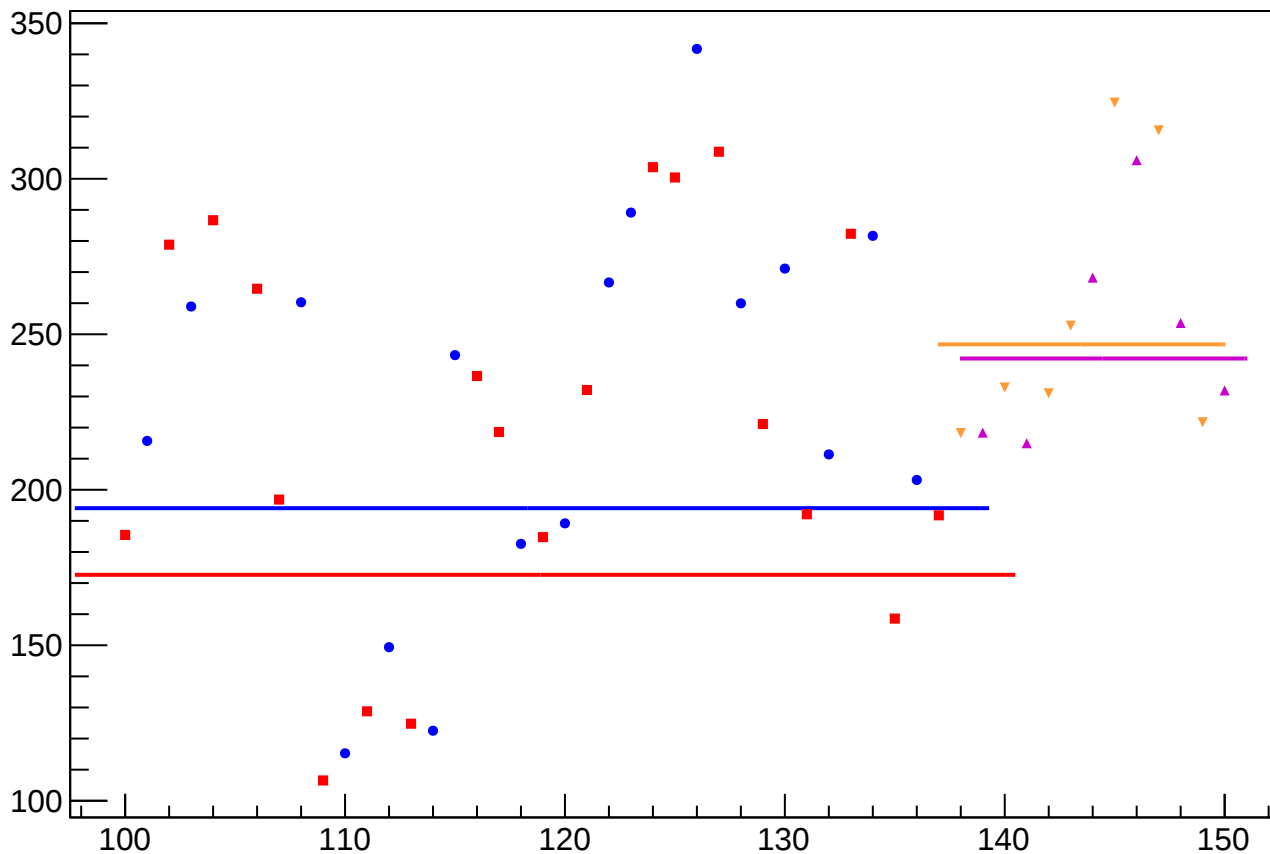
Right Out: -5.996+/-70.027 χ^2/NDF : 6.5/19

Left In: -164.013+/-111.581 χ^2/NDF : 2.3/5

97.432+/-64.786 χ^2/NDF : 8.7/23

-50.647+/-59.314 χ^2/NDF : 10.2/25

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 246.753 $\pm$ 0.080 χ^2 /NDF:216593.6/6

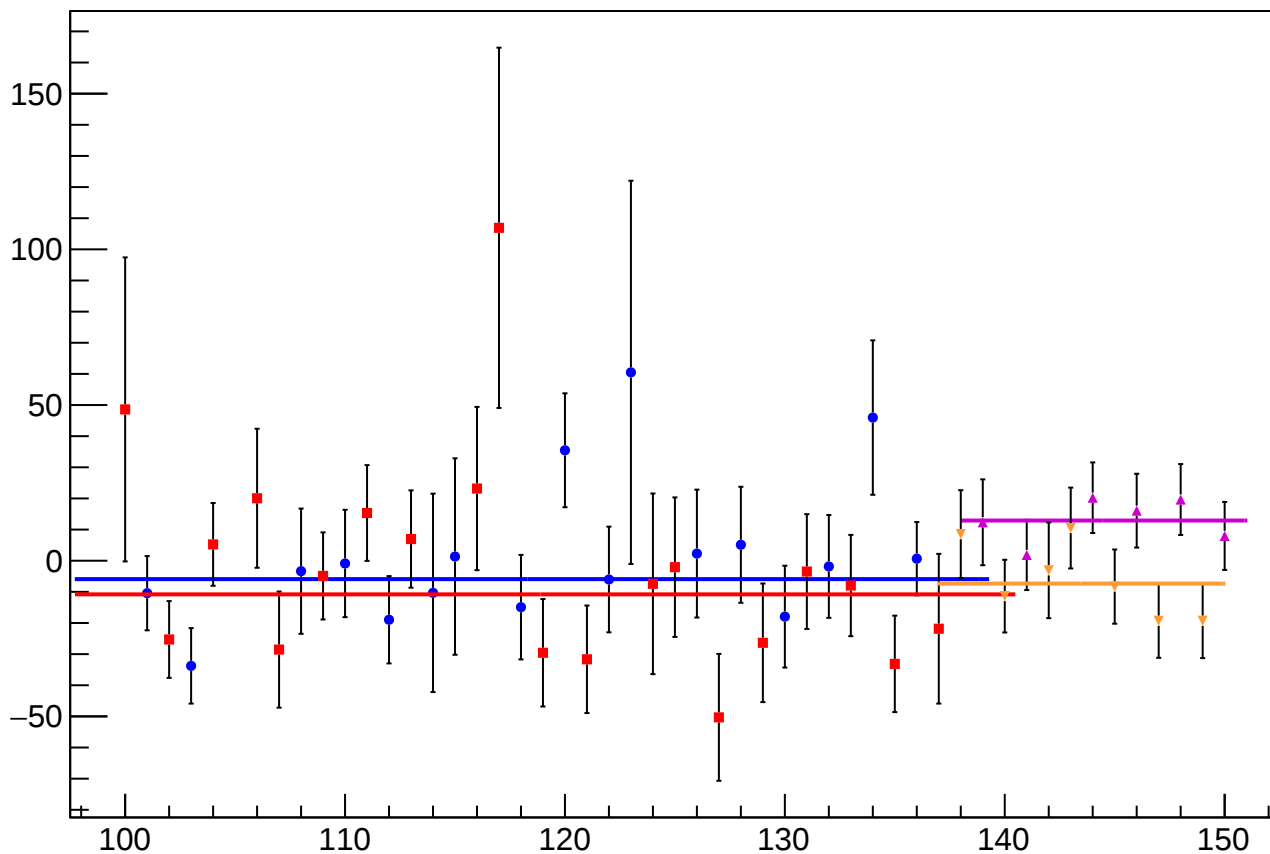
211.537 $\pm$ 0.046 χ^2 /NDF: 1514901.6/23

Right Out: 172.655 $\pm$ 0.050 χ^2 /NDF: 1573277.0/19

192.309 $\pm$ 0.042 χ^2 /NDF: 2265565.5/25

Left In: 242.208 $\pm$ 0.079 χ^2 /NDF:134781.2/5

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug



Right In: -5.912 ± 4.133 $\chi^2/\text{NDF}: 18.8/16$

-6.524 ± 3.129 $\chi^2/\text{NDF}: 24.2/23$

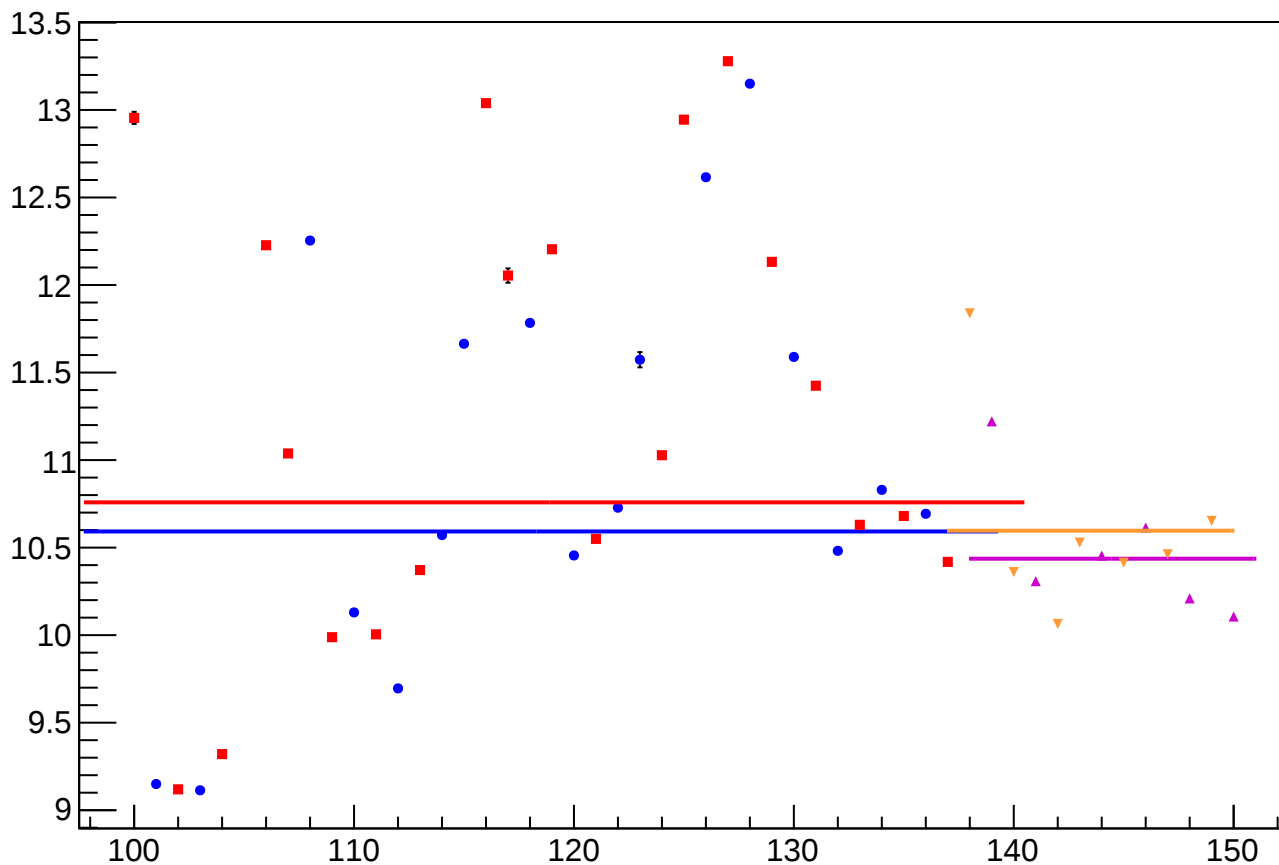
Left Out: -7.346 ± 4.790 $\chi^2/\text{NDF}: 5.4/6$

Right Out: -10.806 ± 4.068 $\chi^2/\text{NDF}: 27.0/19$

-0.796 ± 3.093 $\chi^2/\text{NDF}: 43.4/25$

Left In: 12.909 ± 4.760 $\chi^2/\text{NDF}: 2.0/5$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.597 $\pm$ 0.003 χ^2 /NDF:19526.2/6

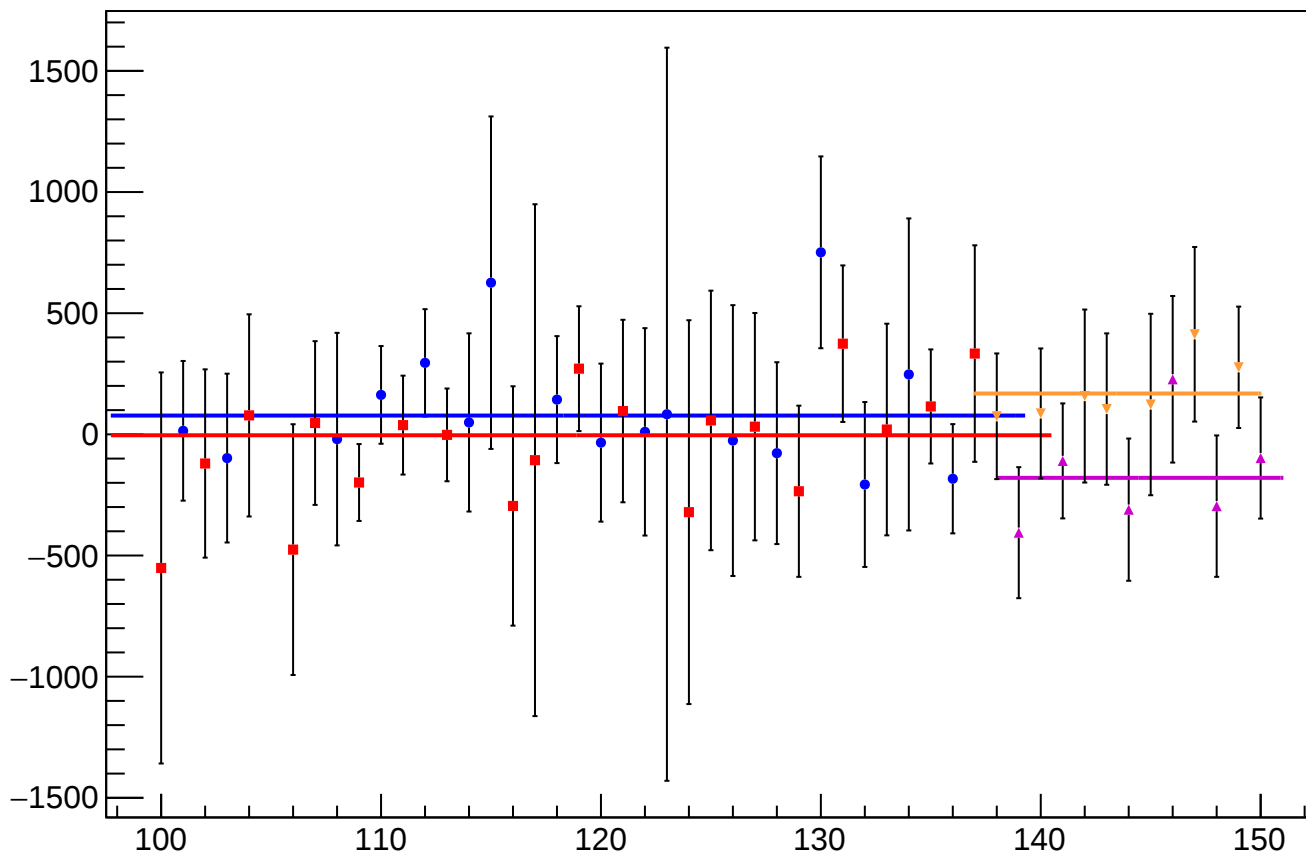
Right Out: 10.758 $\pm$ 0.003 χ^2 /NDF: 177903.3/19

Left In: 10.437 $\pm$ 0.003 χ^2 /NDF:9815.3/5

10.594 $\pm$ 0.002 χ^2 /NDF: 179925.0/23

10.623 $\pm$ 0.002 χ^2 /NDF: 192999.4/25

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 77.589+/-79.751 χ^2/NDF : 7.6/16

Left Out: 168.601+/-113.480 χ^2/NDF : 0.9/6

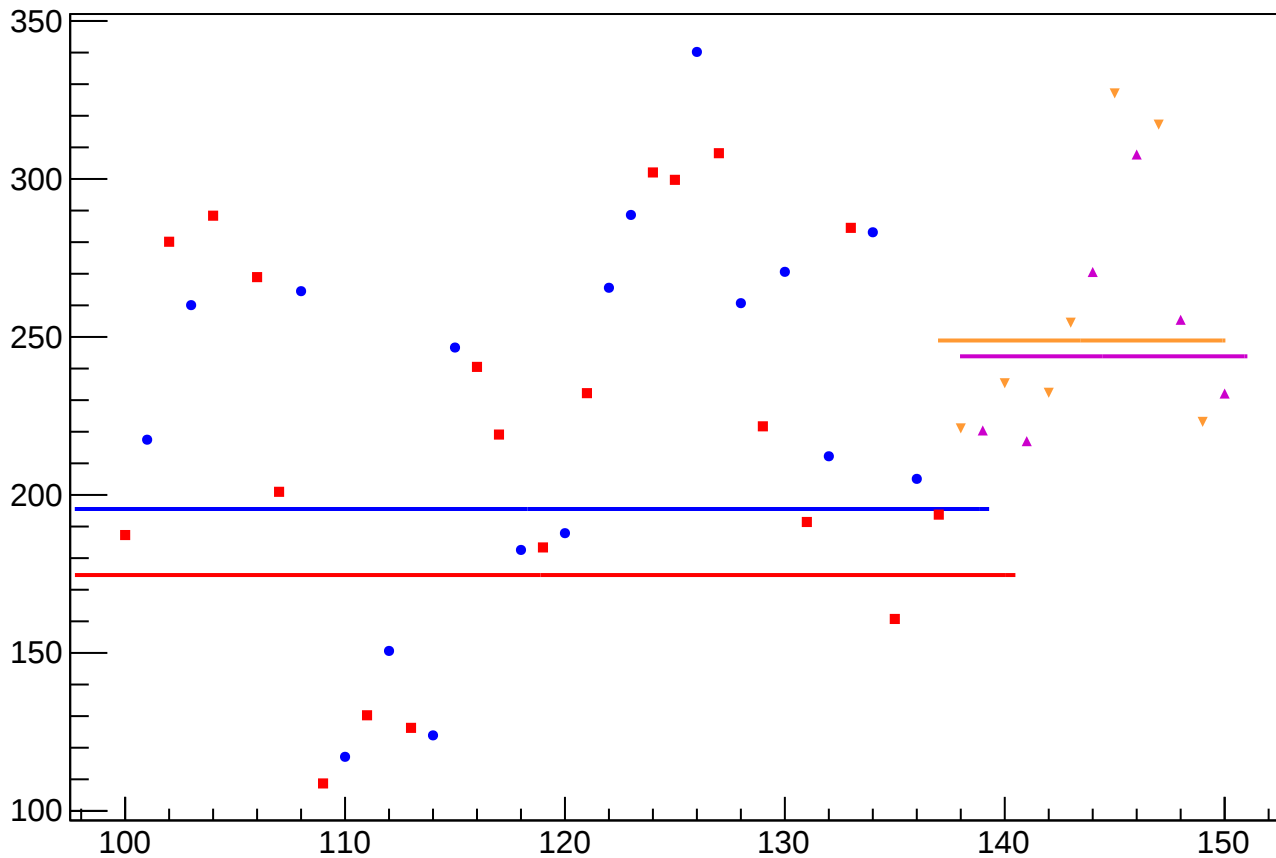
Right Out: -3.768+/-70.696 χ^2/NDF : 7.4/19

Left In: -179.460+/-112.324 χ^2/NDF : 2.7/5

107.678+/-65.249 χ^2/NDF : 8.9/23

-53.618+/-59.832 χ^2/NDF : 11.8/25

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: 248.879+/-0.080 χ^2/NDF : 213400.8/6

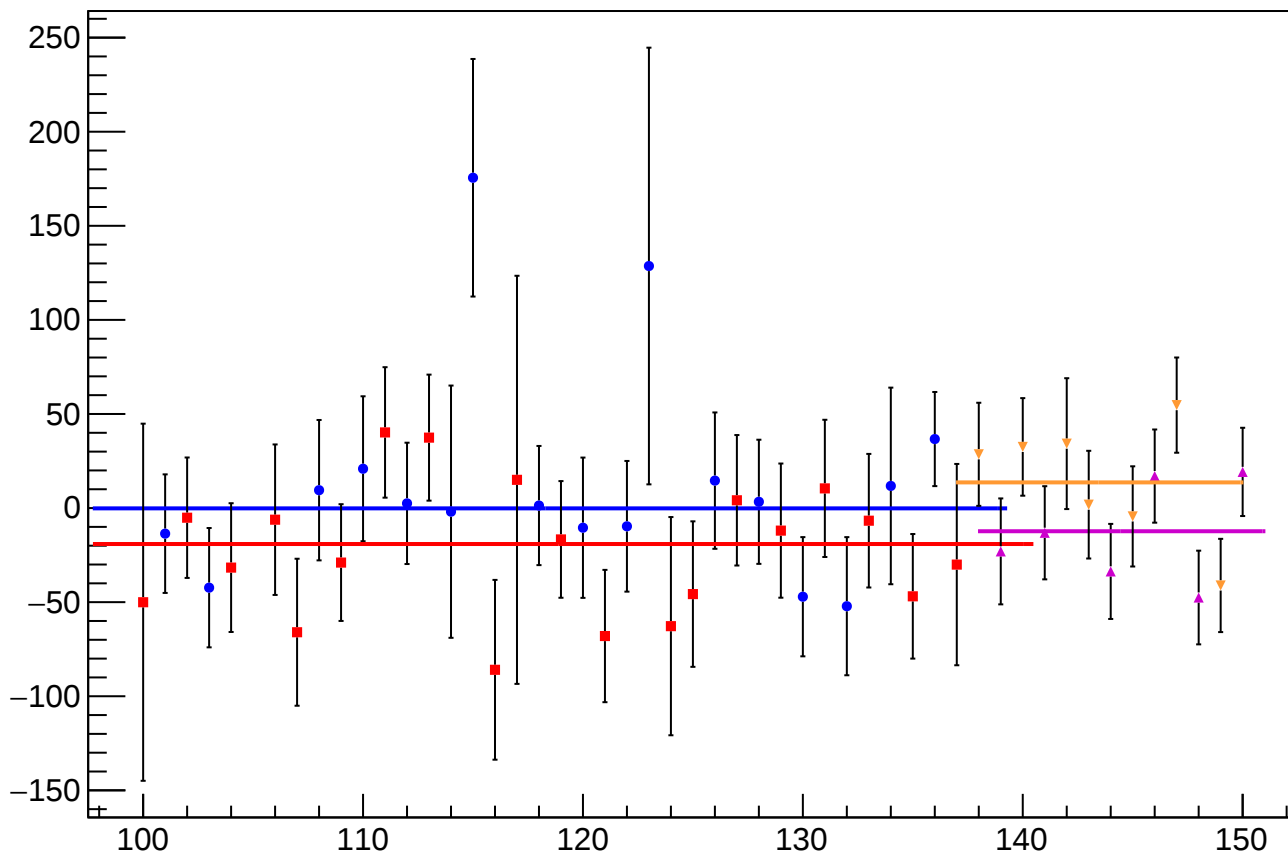
Right Out: 174.649+/-0.050 χ^2/NDF : 1532189.1/19

Left In: 243.873+/-0.079 χ^2/NDF : 133854.5/5

213.182+/-0.046 χ^2/NDF : 1488993.3/23

194.291+/-0.042 χ^2/NDF : 2210131.7/25

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -0.158 ± 8.826 $\chi^2/\text{NDF}: 18.1/16$

Left Out: 13.640 ± 10.276 $\chi^2/\text{NDF}: 9.3/6$

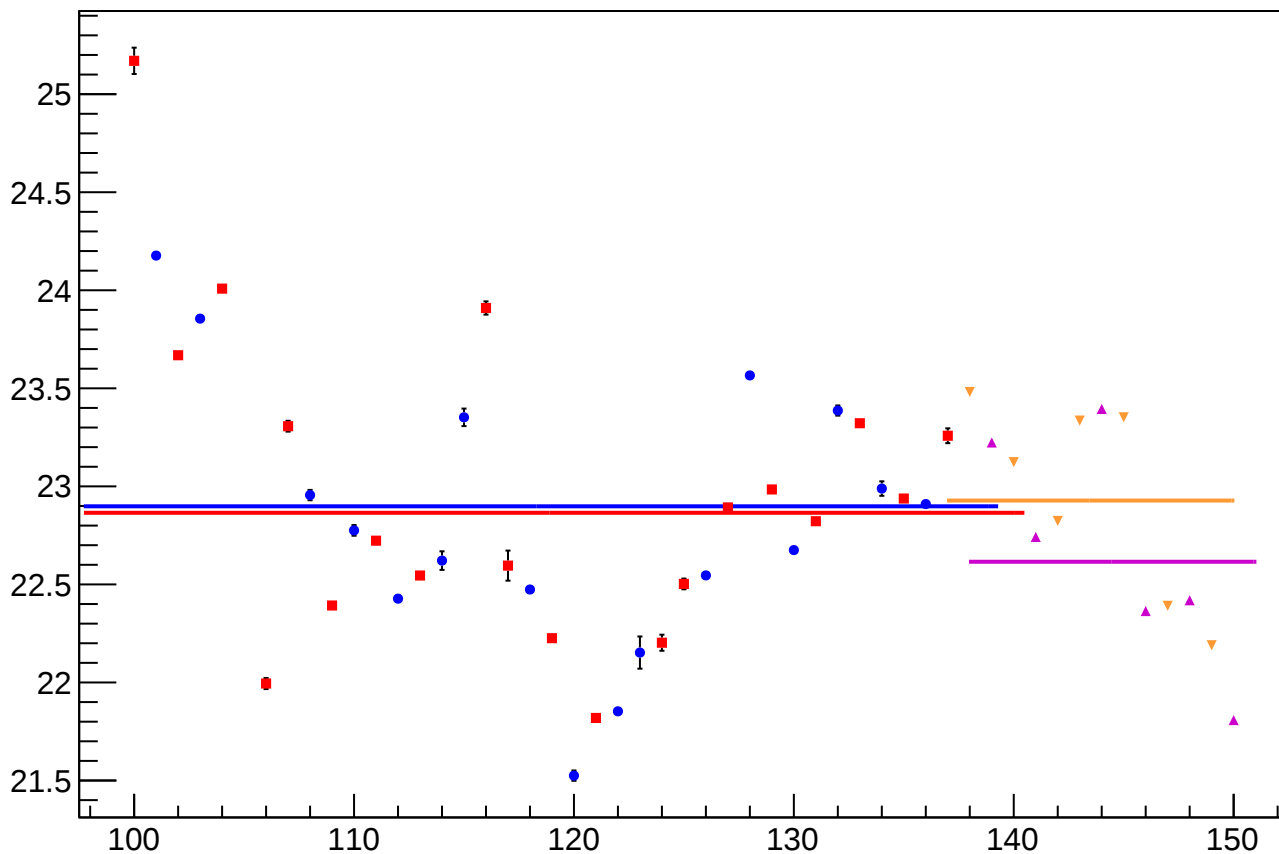
Right Out: -19.104 ± 8.527 $\chi^2/\text{NDF}: 14.9/19$

Left In: -12.312 ± 10.246 $\chi^2/\text{NDF}: 6.1/5$

5.700 ± 6.695 $\chi^2/\text{NDF}: 28.4/23$

-16.325 ± 6.554 $\chi^2/\text{NDF}: 21.2/25$

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: 22.928 ± 0.007 χ^2/NDF : 4538.1/6

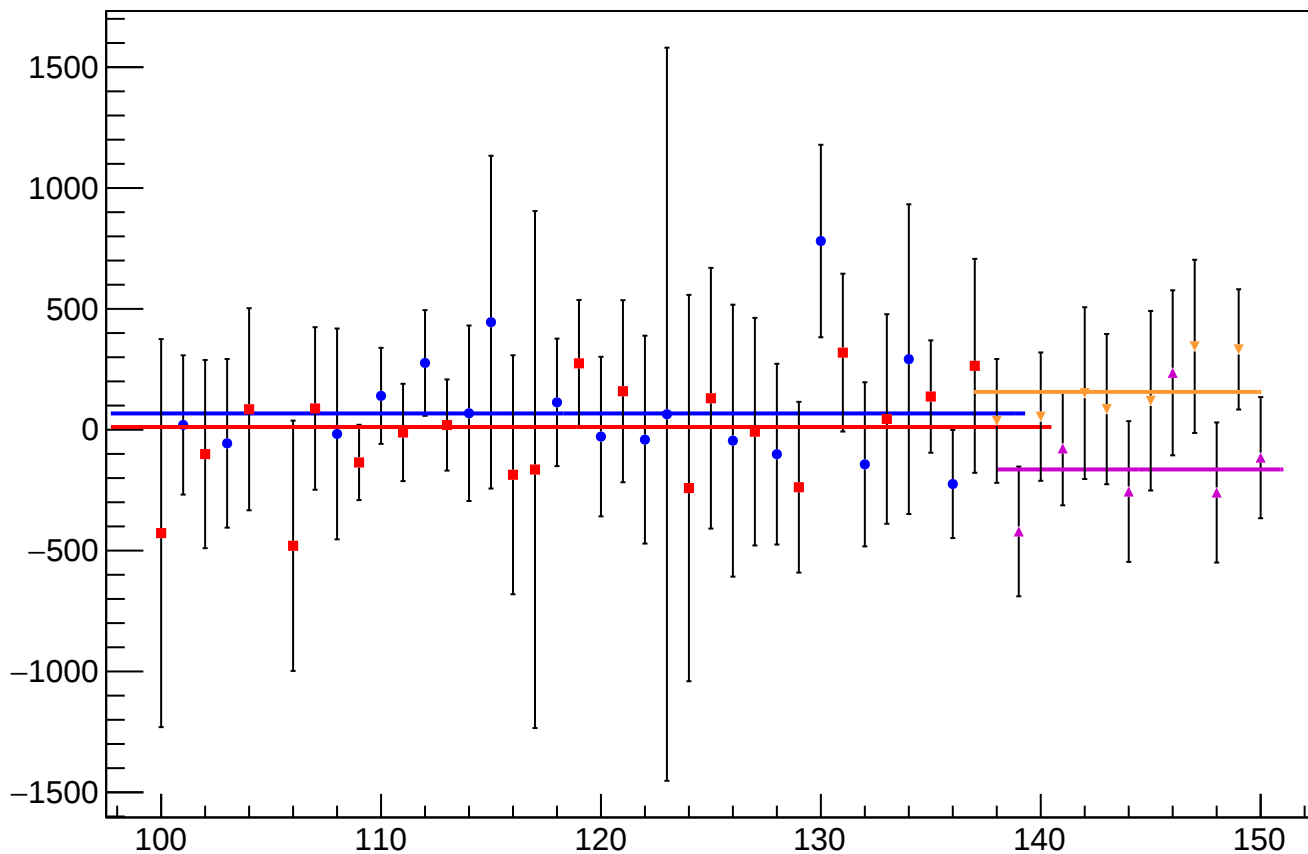
Right Out: 22.865 ± 0.006 χ^2/NDF : 11060.8/19

Left In: 22.616 ± 0.007 χ^2/NDF : 5590.7/5

22.911 ± 0.005 χ^2/NDF : 16690.8/23

22.763 ± 0.005 χ^2/NDF : 17353.4/25

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 156.427 $\pm$ 112.590 χ^2 /NDF:1.2/6

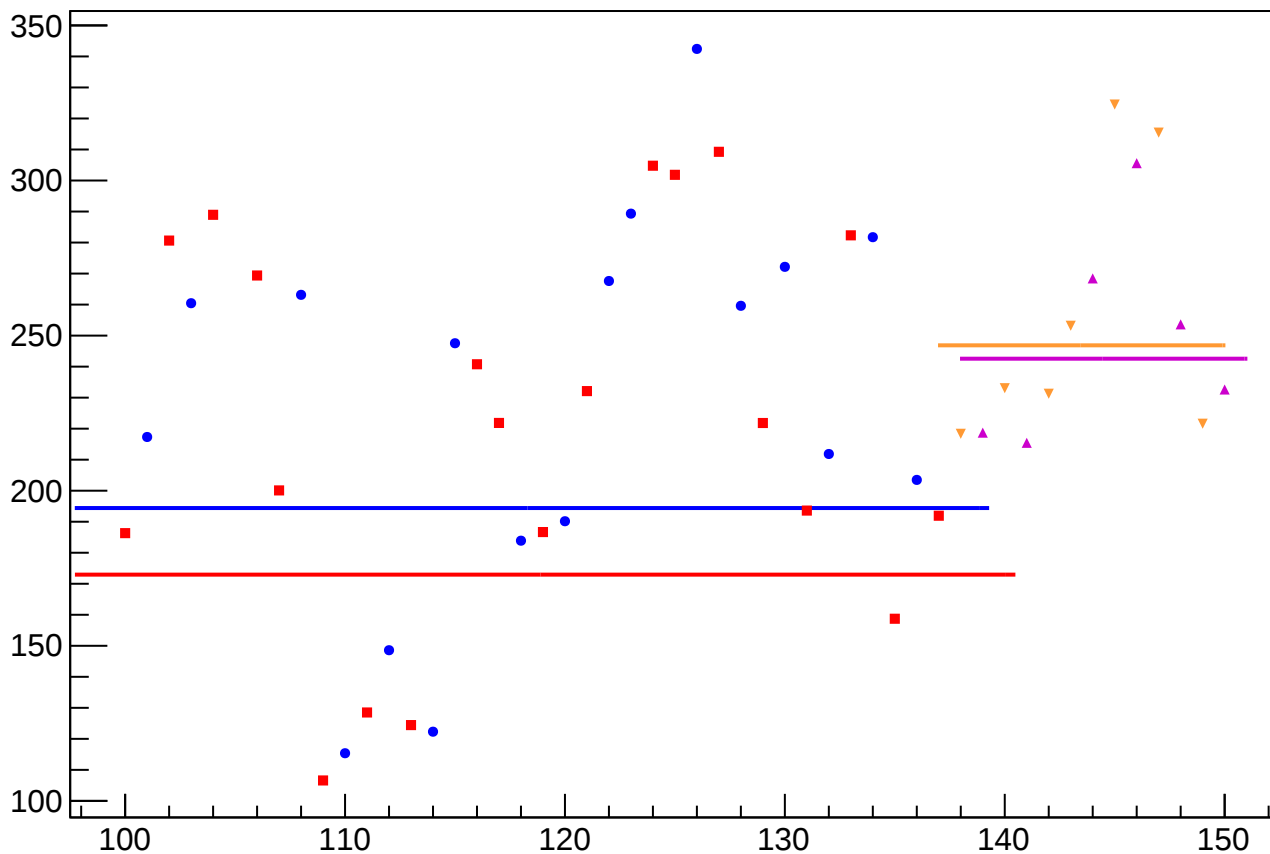
Right Out: 11.355 $\pm$ 70.203 χ^2 /NDF: 5.8/19

Left In: -164.251 $\pm$ 111.724 χ^2 /NDF:2.7/5

97.004 $\pm$ 64.890 χ^2 /NDF: 9.0/23

-38.354 $\pm$ 59.442 χ^2 /NDF: 10.2/25

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: 246.868+/-0.080 χ^2/NDF :216155.2/6

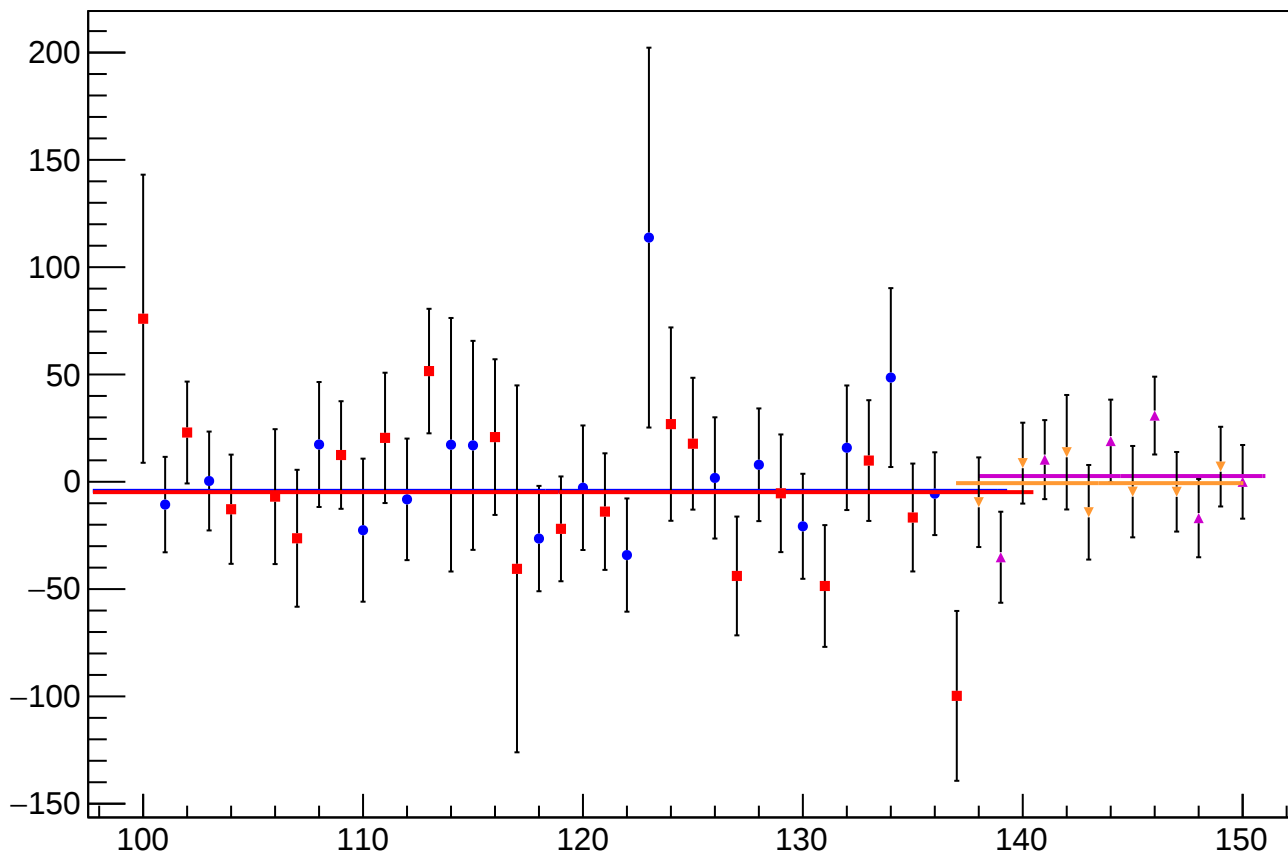
211.835+/-0.046 χ^2/NDF : 1526008.5/23

Right Out: 172.942+/-0.050 χ^2/NDF : 1600959.1/19

192.648+/-0.042 χ^2/NDF : 2290027.0/25

Left In: 242.558+/-0.079 χ^2/NDF :132352.2/5

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: -0.632+/-7.765 χ^2/NDF : 1.4/6

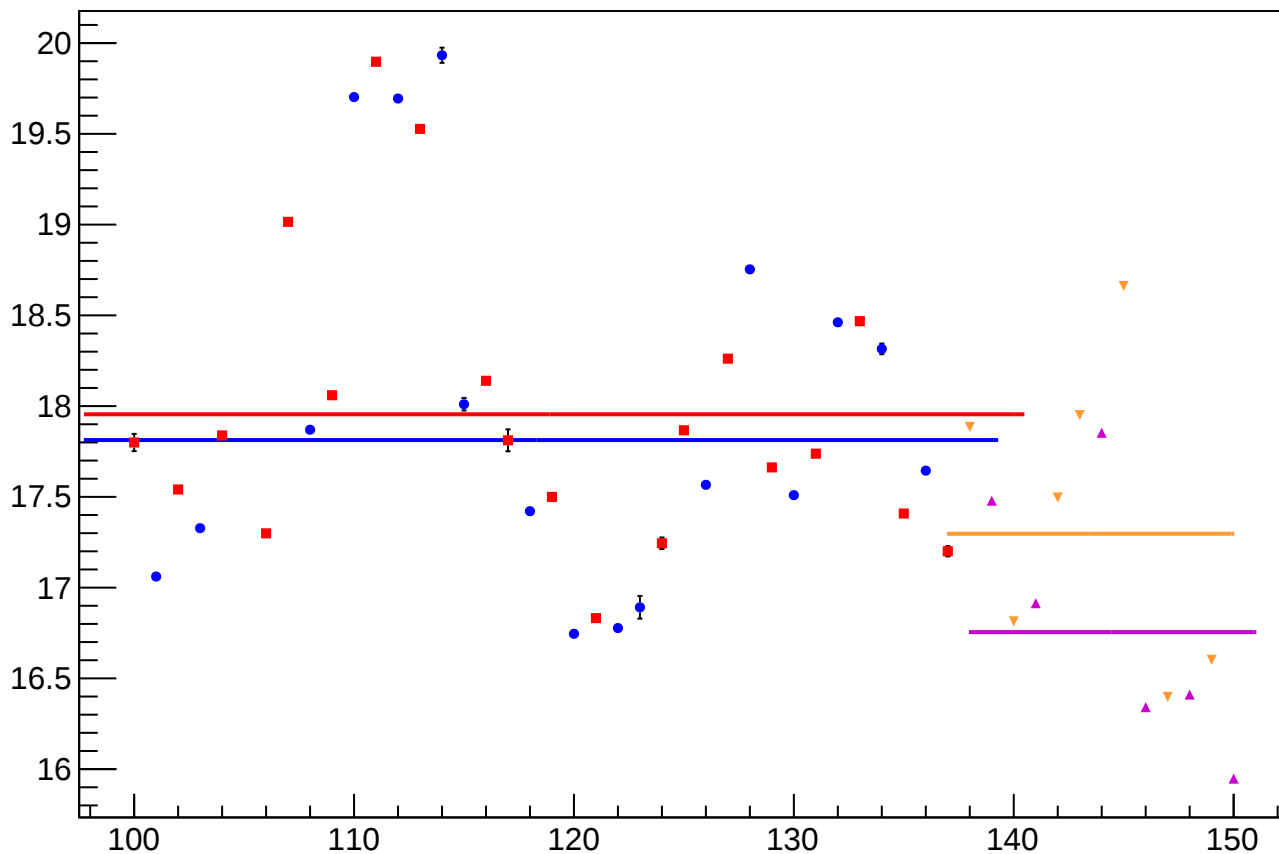
Right Out: -4.820+/-6.704 χ^2/NDF : 21.3/19

Left In: 2.671+/-7.603 χ^2/NDF : 7.7/5

-2.646+/-5.146 χ^2/NDF : 9.5/23

-1.544+/-5.029 χ^2/NDF : 29.5/25

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: 17.297 ± 0.005 χ^2/NDF : 20488.9/6

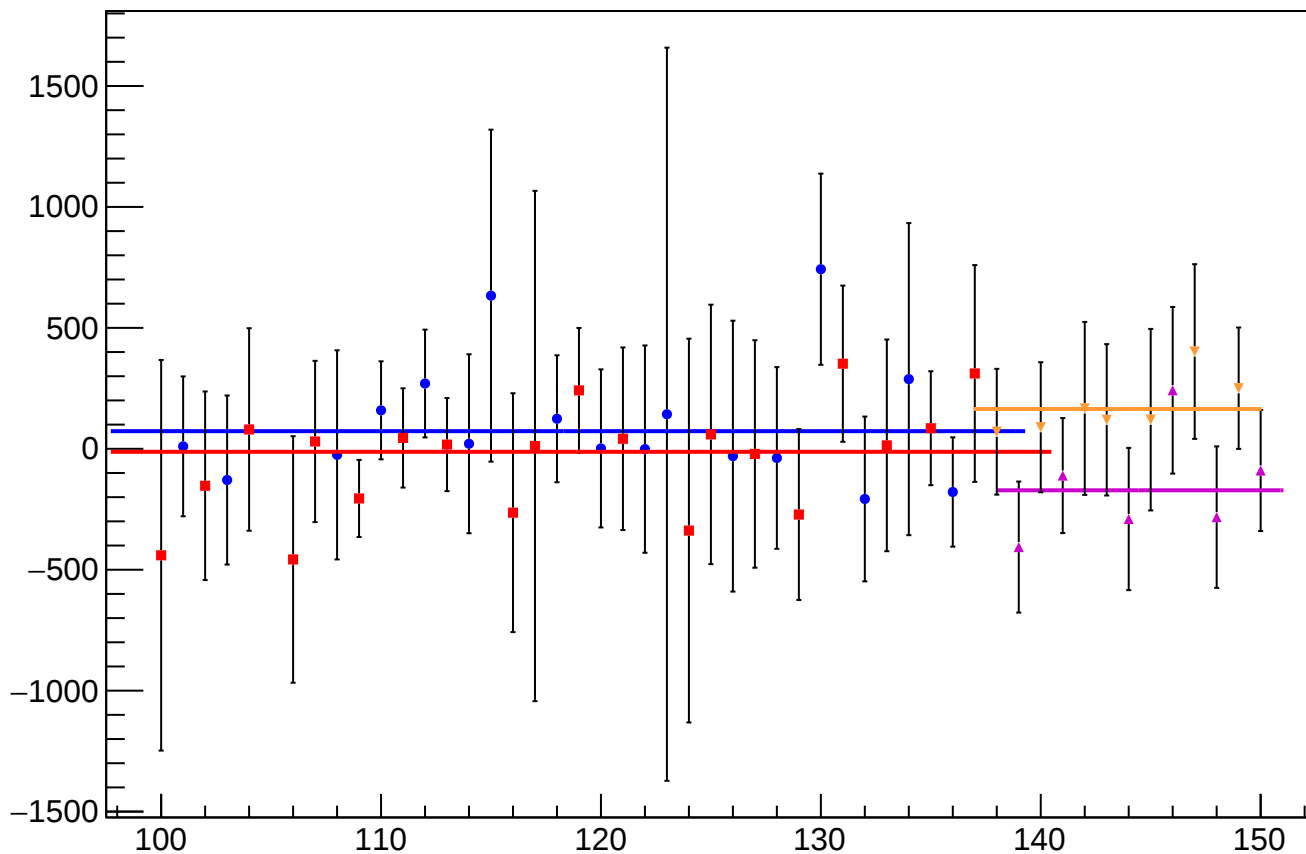
Right Out: 17.955 ± 0.005 χ^2/NDF : 25451.0/19

Left In: 16.755 ± 0.005 χ^2/NDF : 15132.3/5

17.586 ± 0.004 χ^2/NDF : 57481.0/23

17.430 ± 0.004 χ^2/NDF : 68614.4/25

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: 164.612 +/- 113.719 χ^2/NDF : 0.8/6

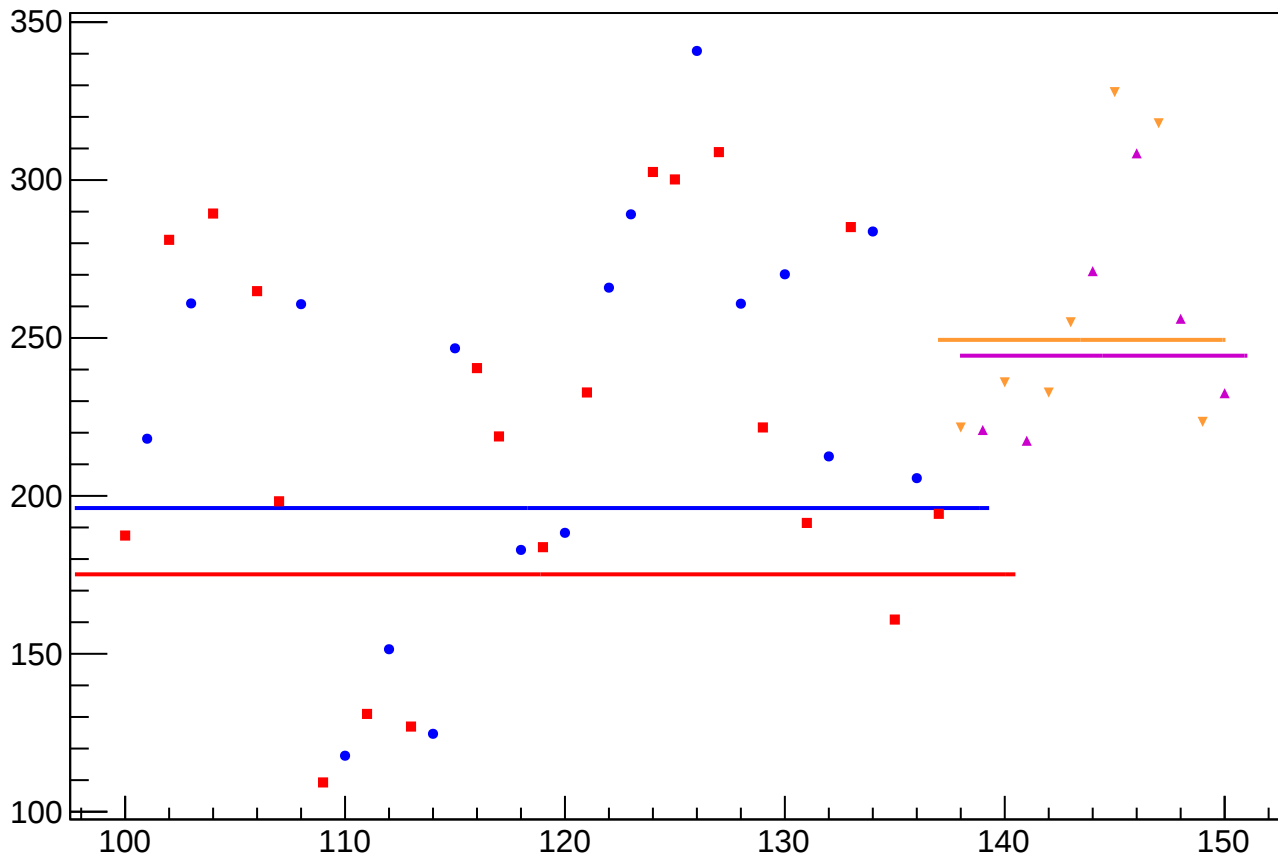
Right Out: -12.456 +/- 70.853 χ^2/NDF : 6.7/19

Left In: -171.591 +/- 112.563 χ^2/NDF : 2.7/5

103.228 +/- 65.403 χ^2/NDF : 8.4/23

-57.614 +/- 59.963 χ^2/NDF : 10.8/25

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: 249.400+/-0.080 χ^2/NDF : 213700.0/6

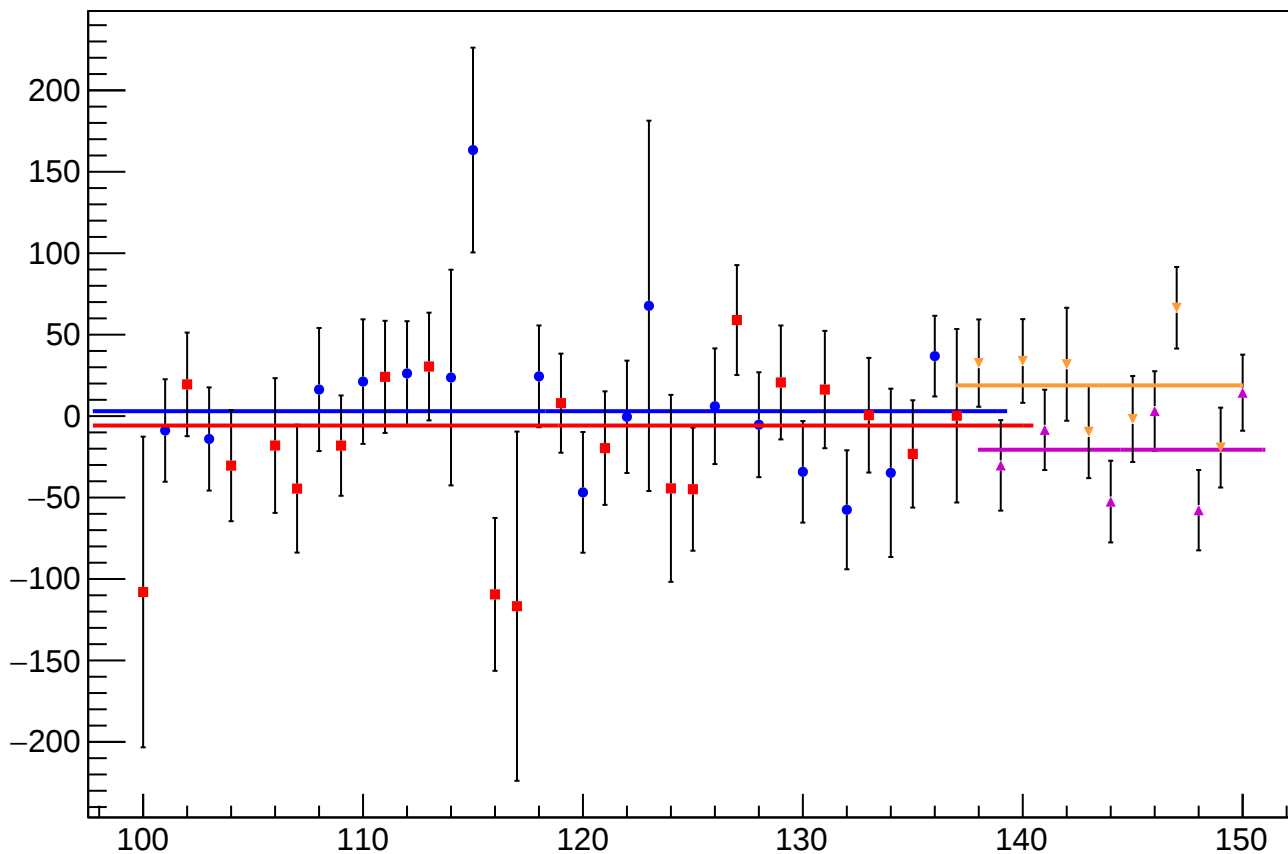
Right Out: 175.163+/-0.050 χ^2/NDF : 1514398.4/19

Left In: 244.389+/-0.080 χ^2/NDF : 134172.9/5

213.764+/-0.046 χ^2/NDF : 1472169.0/23

194.807+/-0.042 χ^2/NDF : 2190362.7/25

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 18.869 ± 10.168 $\chi^2/\text{NDF}: 8.4/6$

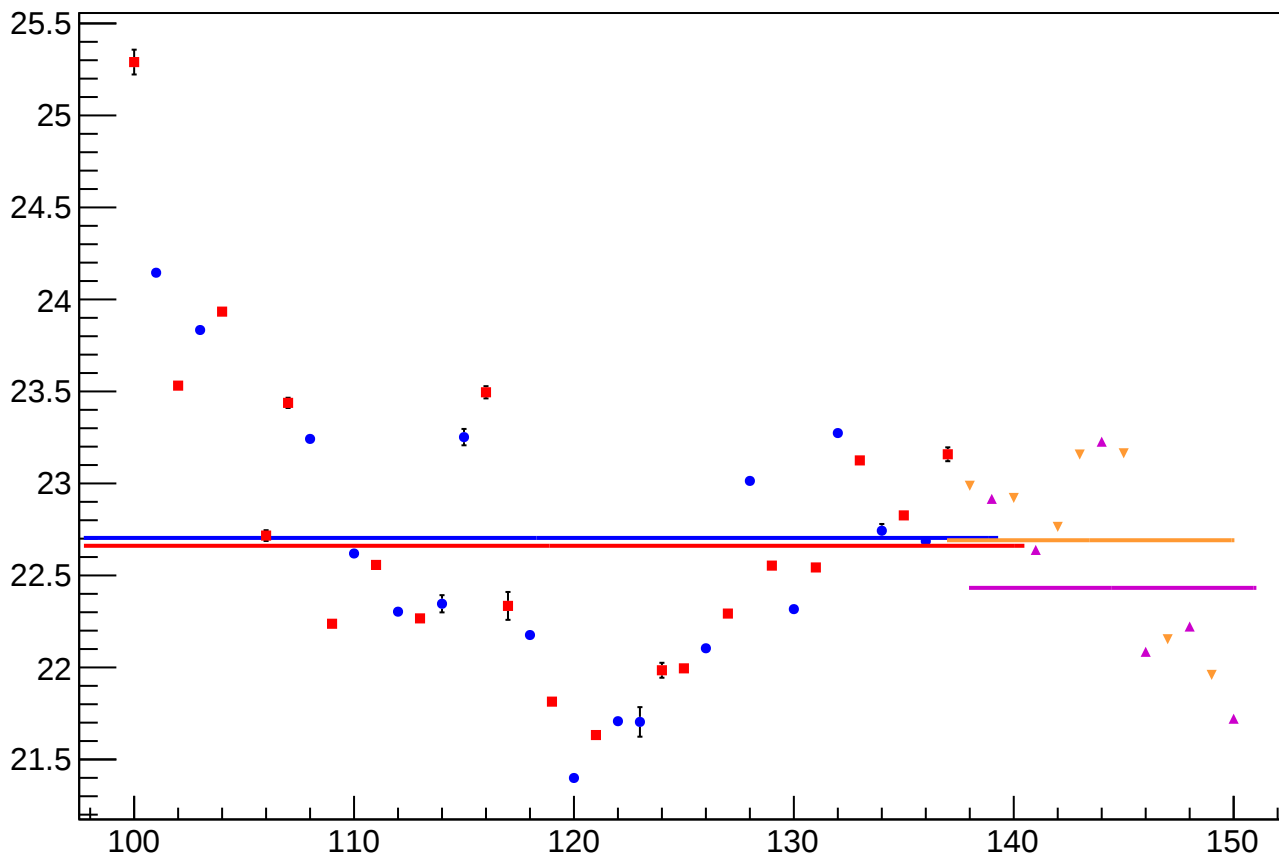
Right Out: -5.786 ± 8.451 $\chi^2/\text{NDF}: 18.3/19$

Left In: -20.638 ± 10.163 $\chi^2/\text{NDF}: 7.4/5$

9.765 ± 6.633 $\chi^2/\text{NDF}: 27.0/23$

-11.858 ± 6.498 $\chi^2/\text{NDF}: 27.0/25$

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: 22.691+/-0.007 χ^2/NDF : 4297.1/6

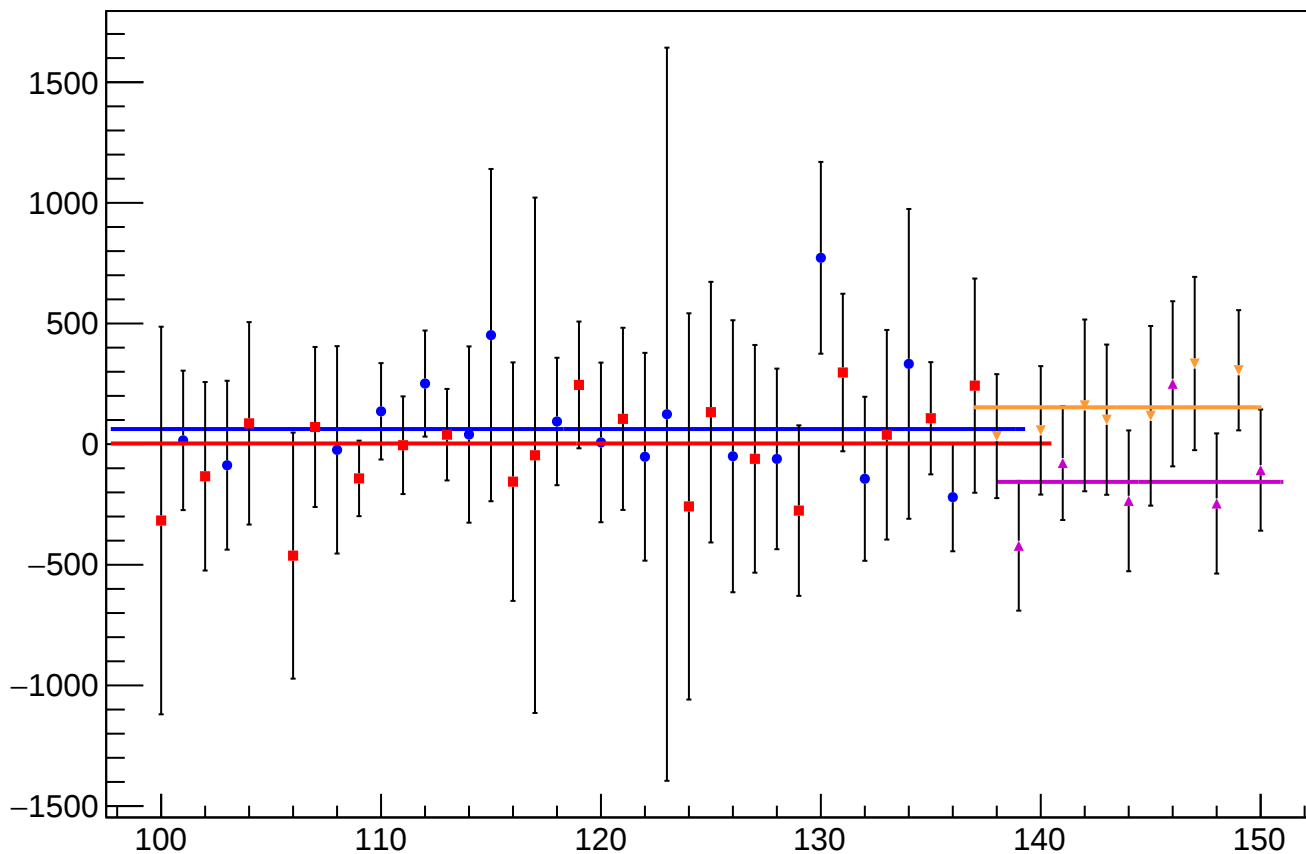
Right Out: 22.661+/-0.006 χ^2/NDF : 12962.1/19

Left In: 22.432+/-0.007 χ^2/NDF : 5156.5/5

22.699+/-0.005 χ^2/NDF : 18404.7/23

22.568+/-0.005 χ^2/NDF : 18717.2/25

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug



Right In: 62.573 ± 79.605 $\chi^2/\text{NDF}: 7.0/16$

Left Out: 152.668 ± 112.829 $\chi^2/\text{NDF}: 1.0/6$

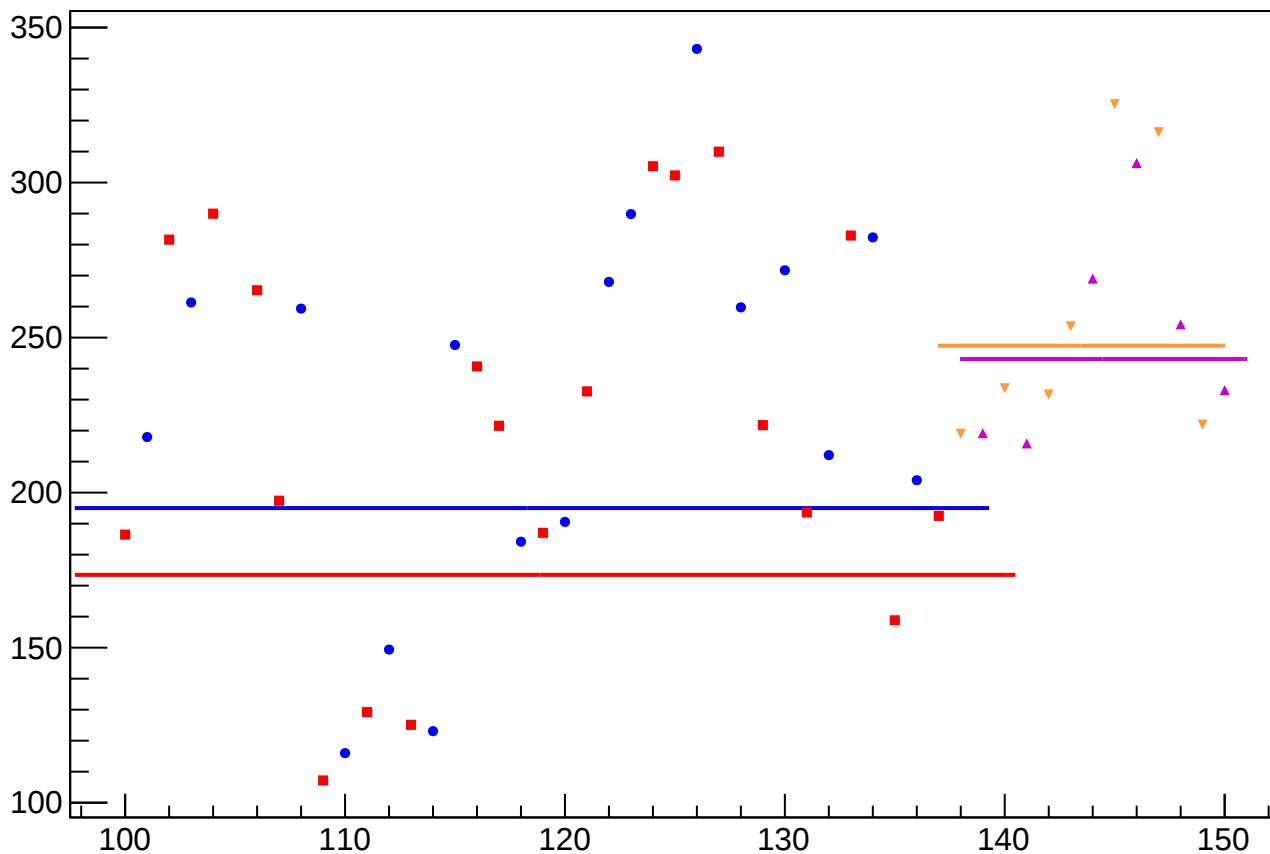
Right Out: 2.824 ± 70.364 $\chi^2/\text{NDF}: 5.2/19$

Left In: -156.390 ± 111.963 $\chi^2/\text{NDF}: 2.7/5$

92.516 ± 65.045 $\chi^2/\text{NDF}: 8.5/23$

-42.254 ± 59.576 $\chi^2/\text{NDF}: 9.4/25$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug



Right In: 195.022 $\pm$ 0.056 χ^2 /NDF: 1004284.9/16

Left Out: 247.390 $\pm$ 0.080 χ^2 /NDF:216435.7/6

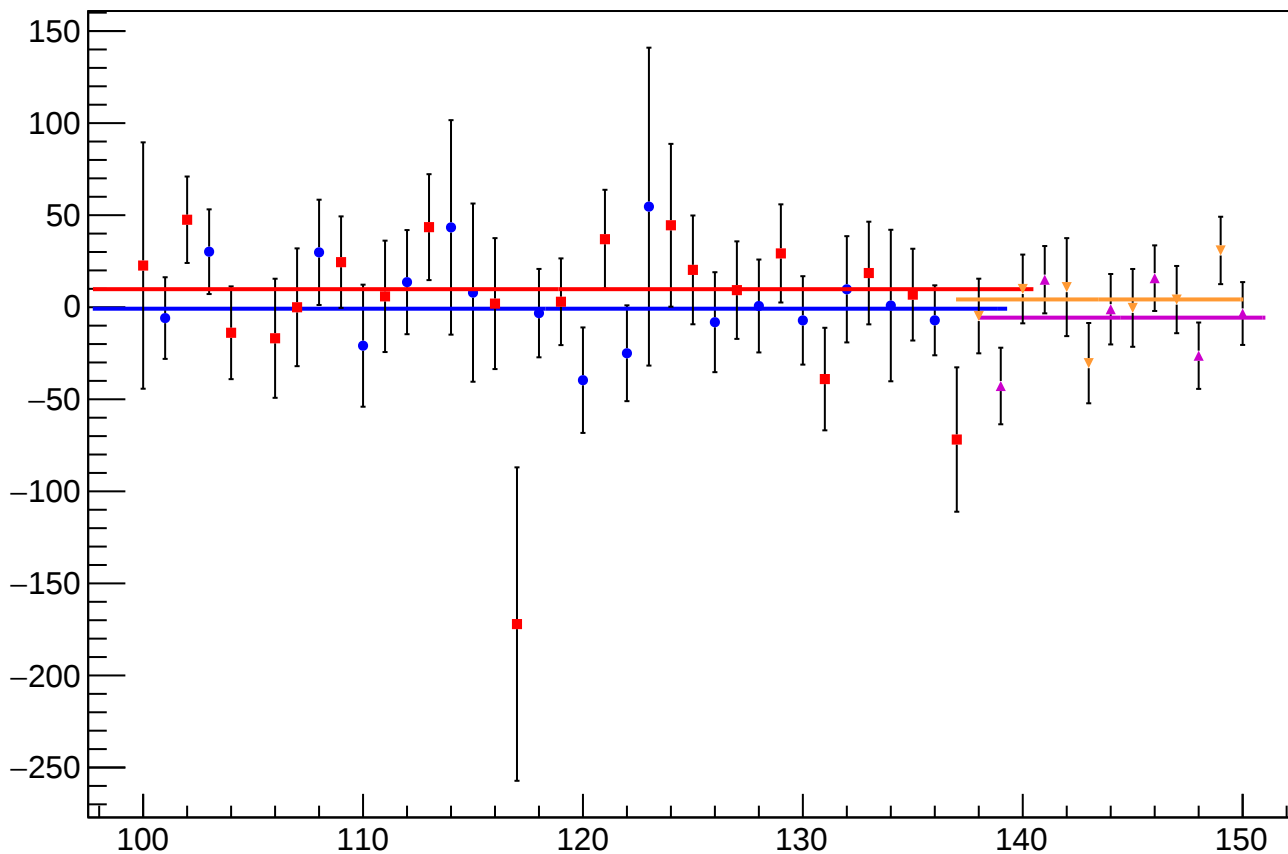
212.426 $\pm$ 0.046 χ^2 /NDF: 1508372.4/23

Right Out: 173.471 $\pm$ 0.050 χ^2 /NDF: 1582273.4/19

193.179 $\pm$ 0.042 χ^2 /NDF: 2269043.0/25

Left In: 243.076 $\pm$ 0.079 χ^2 /NDF:132658.4/5

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: 4.234 ± 7.661 χ^2/NDF : 5.0/6

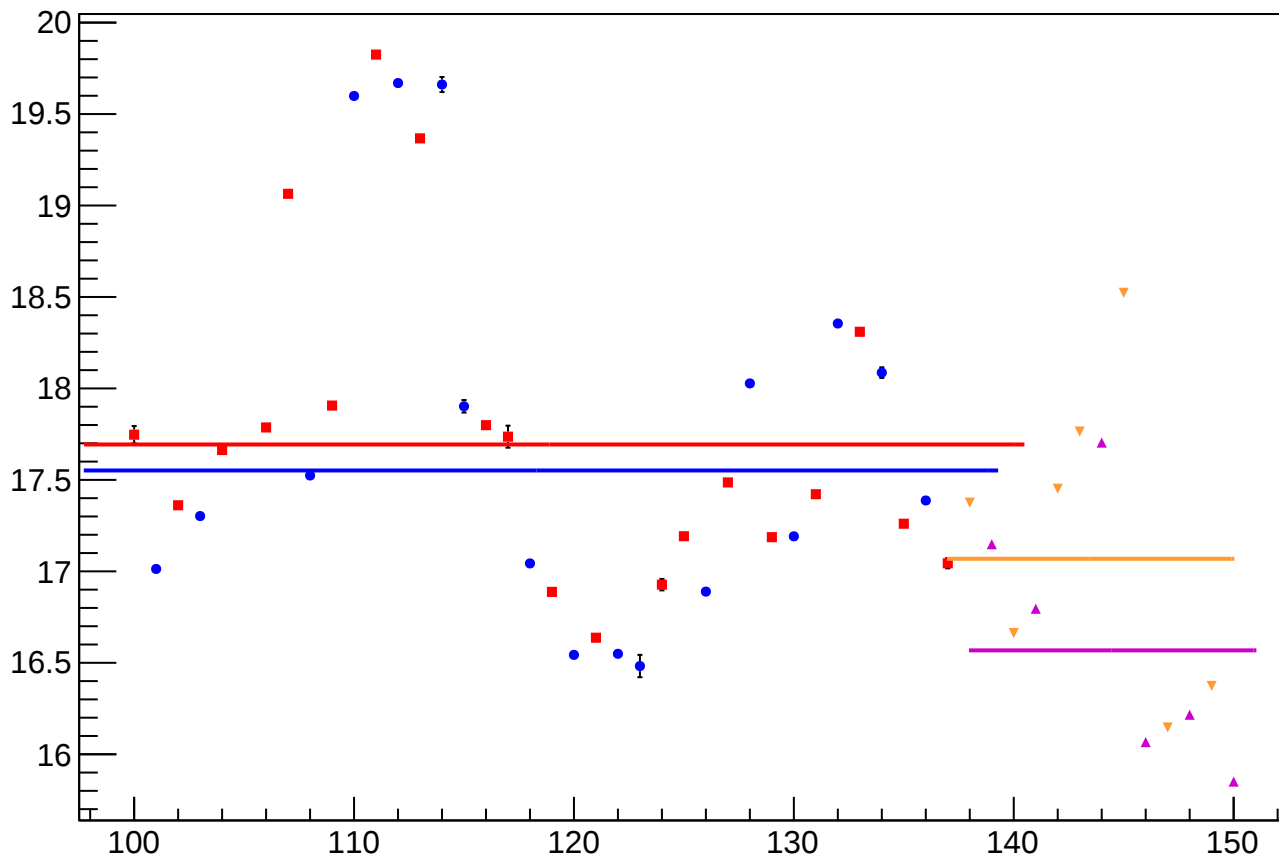
Right Out: 9.809 ± 6.606 χ^2/NDF : 20.5/19

Left In: -5.659 ± 7.517 χ^2/NDF : 7.3/5

1.407 ± 5.073 χ^2/NDF : 13.0/23

3.069 ± 4.962 χ^2/NDF : 30.2/25

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: 17.069 ± 0.005 χ^2/NDF : 21307.6/6

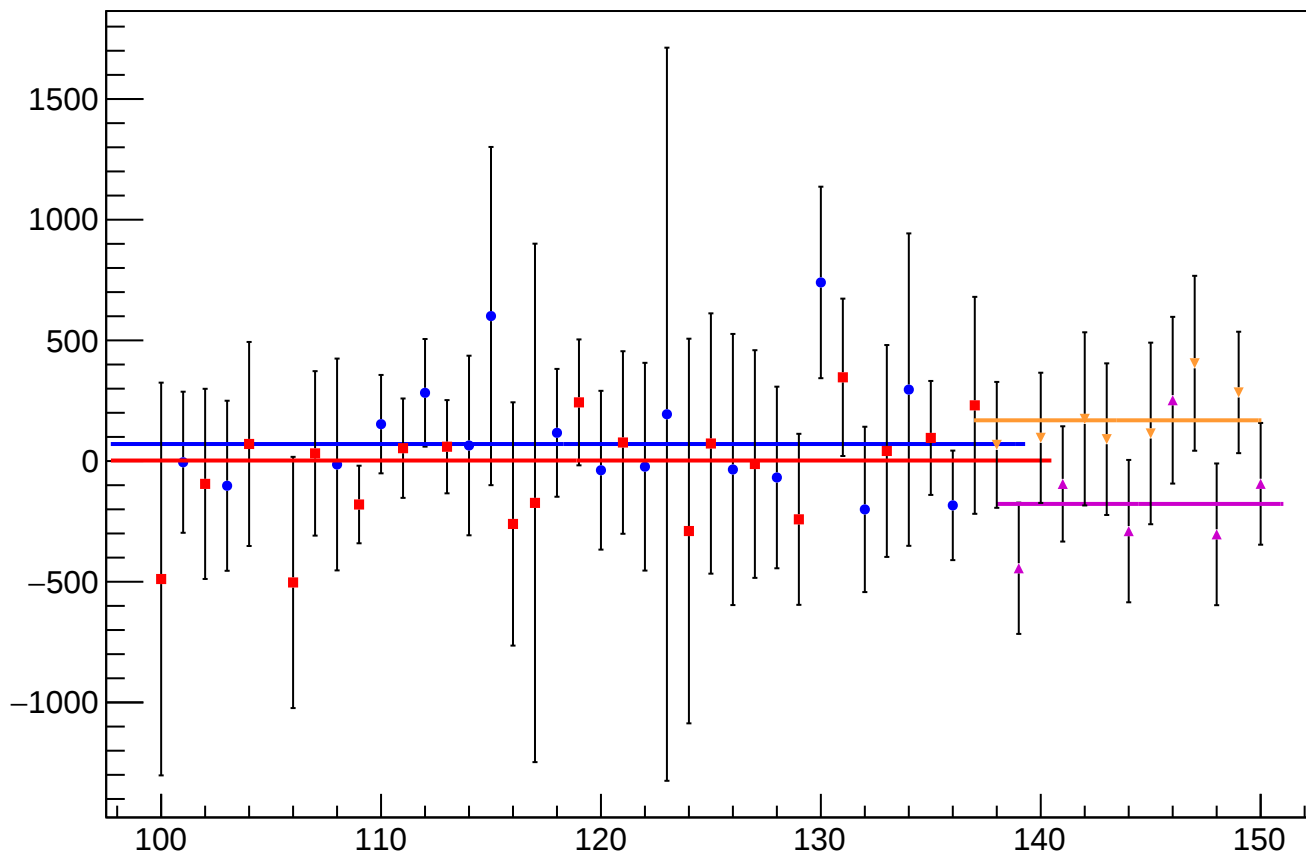
Right Out: 17.694 ± 0.005 χ^2/NDF : 30742.5/19

Left In: 16.568 ± 0.005 χ^2/NDF : 14798.6/5

17.340 ± 0.004 χ^2/NDF : 59794.9/23

17.203 ± 0.004 χ^2/NDF : 70843.9/25

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: 168.876 +/- 114.081 χ^2/NDF : 0.9/6

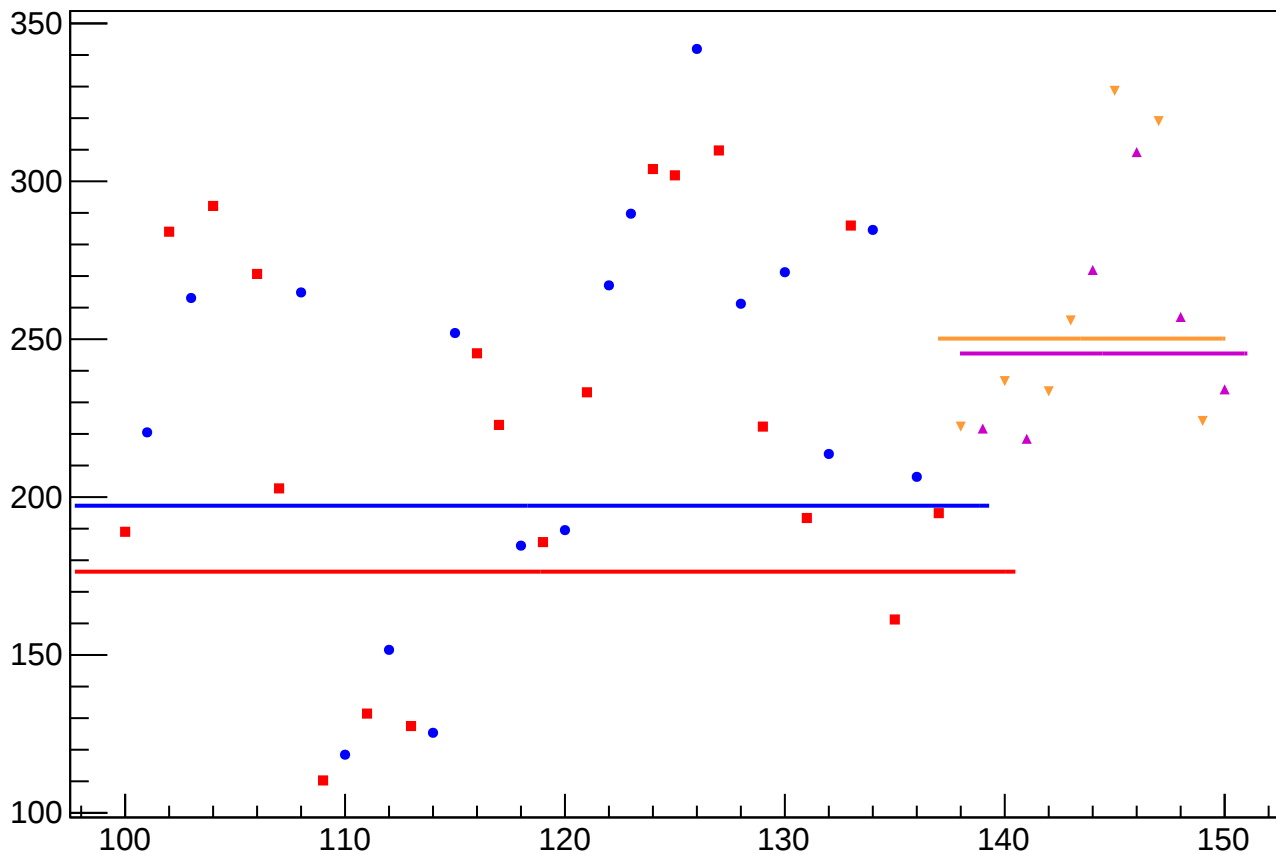
Right Out: 2.285 +/- 71.350 χ^2/NDF : 6.2/19

Left In: -177.546 +/- 113.048 χ^2/NDF : 3.1/5

103.242 +/- 65.724 χ^2/NDF : 8.6/23

-48.943 +/- 60.337 χ^2/NDF : 11.1/25

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 250.195+/-0.081 χ^2/NDF : 213610.8/6

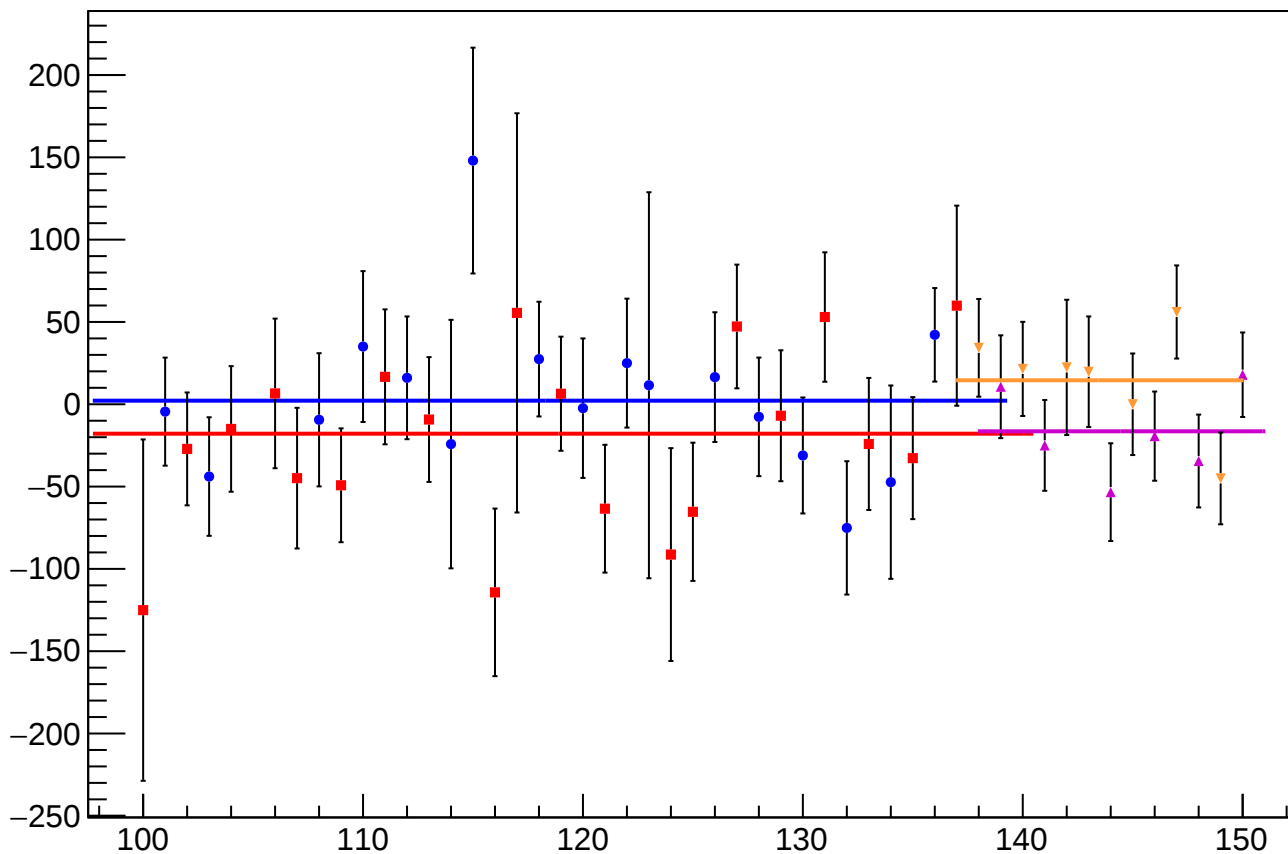
Right Out: 176.387+/-0.050 χ^2/NDF : 1523467.7/19

Left In: 245.474+/-0.080 χ^2/NDF : 132291.7/5

214.837+/-0.046 χ^2/NDF : 1470727.0/23

196.067+/-0.043 χ^2/NDF : 2189948.2/25

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: 14.568 ± 11.607 $\chi^2/\text{NDF}: 7.5/6$

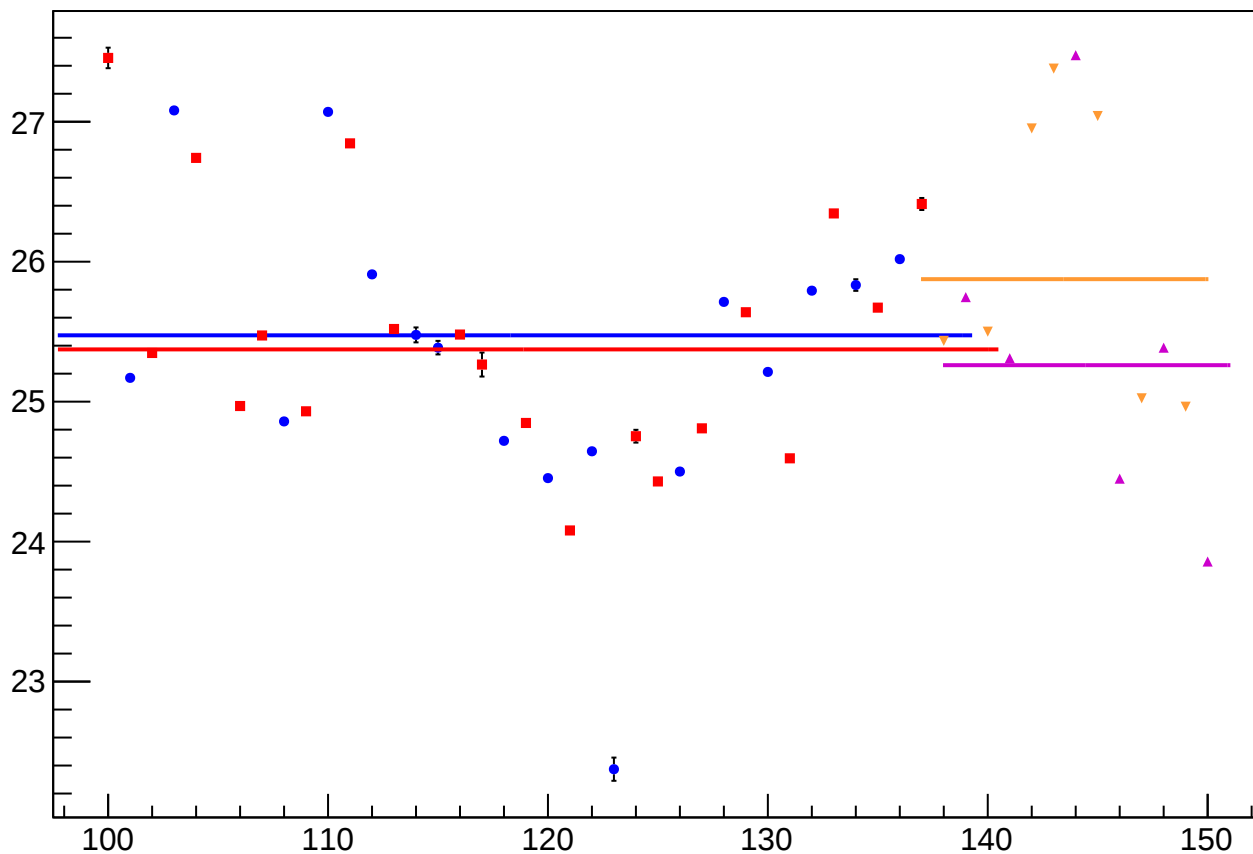
Right Out: -17.869 ± 9.468 $\chi^2/\text{NDF}: 20.0/19$

Left In: -16.419 ± 11.461 $\chi^2/\text{NDF}: 4.6/5$

7.350 ± 7.499 $\chi^2/\text{NDF}: 23.5/23$

-17.281 ± 7.299 $\chi^2/\text{NDF}: 24.6/25$

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: 25.875+/-0.008 χ^2/NDF :12971.8/6

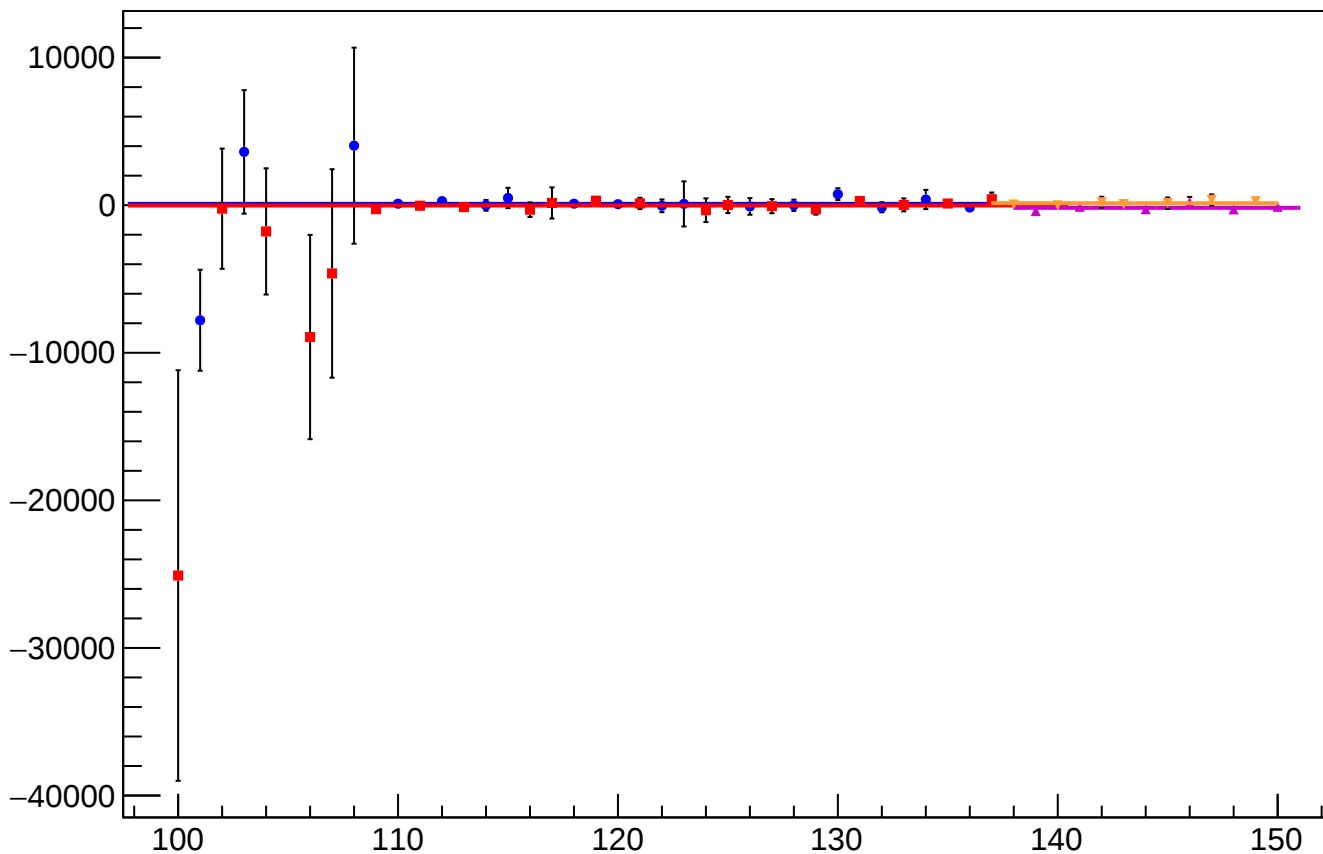
Right Out: 25.373+/-0.007 χ^2/NDF : 13582.8/19

Left In: 25.261+/-0.008 χ^2/NDF :19421.6/5

25.641+/-0.005 χ^2/NDF : 28425.5/23

25.328+/-0.005 χ^2/NDF : 33119.5/25

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: 135.992+/-115.550 χ^2/NDF : 1.2/6

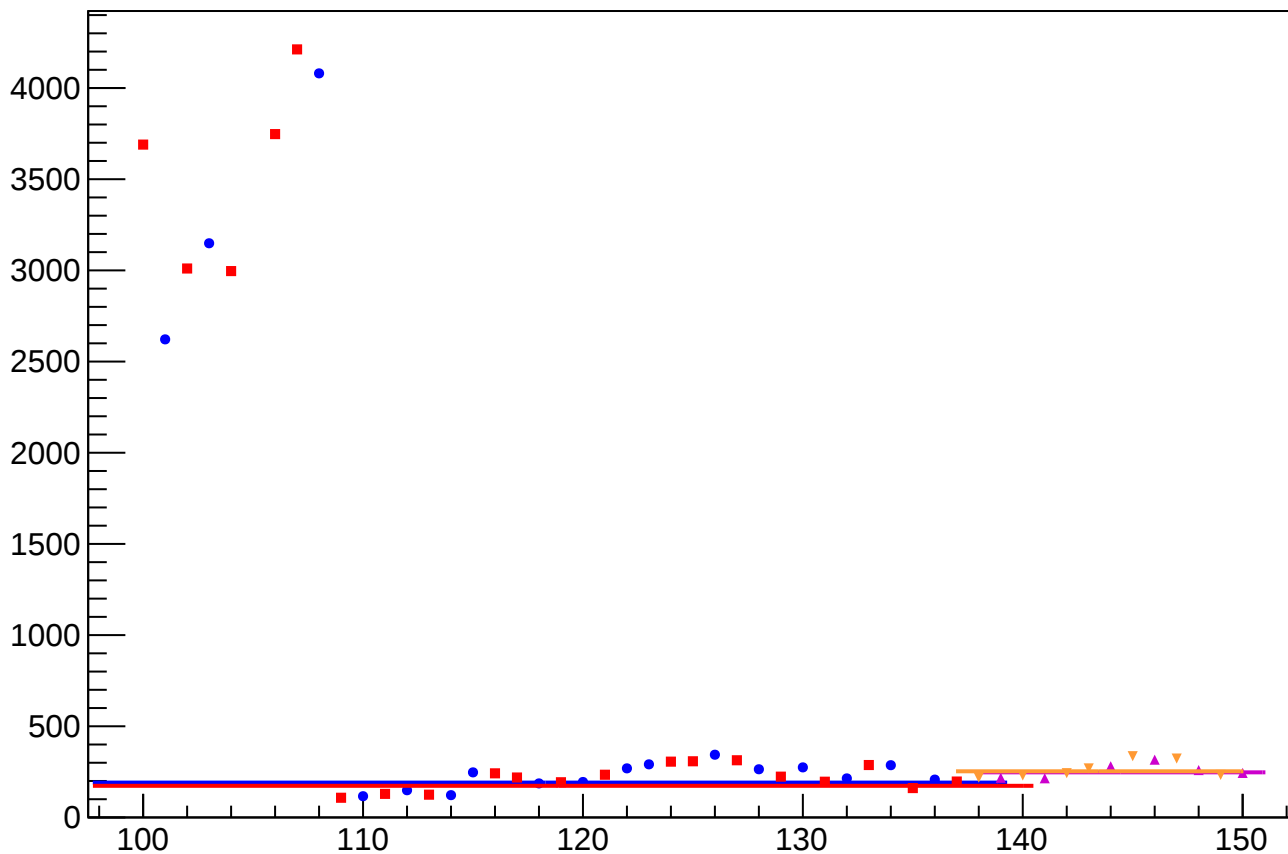
Right Out: -21.600+/-80.665 χ^2/NDF : 11.9/19

Left In: -177.134+/-114.172 χ^2/NDF : 2.2/5

106.551+/-69.823 χ^2/NDF : 13.6/23

-73.388+/-65.881 χ^2/NDF : 15.4/25

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug



Right In: 191.190+/-0.062 χ^2/NDF : 3571747.5/16

Left Out: 253.105+/-0.082 χ^2/NDF : 235164.0/6

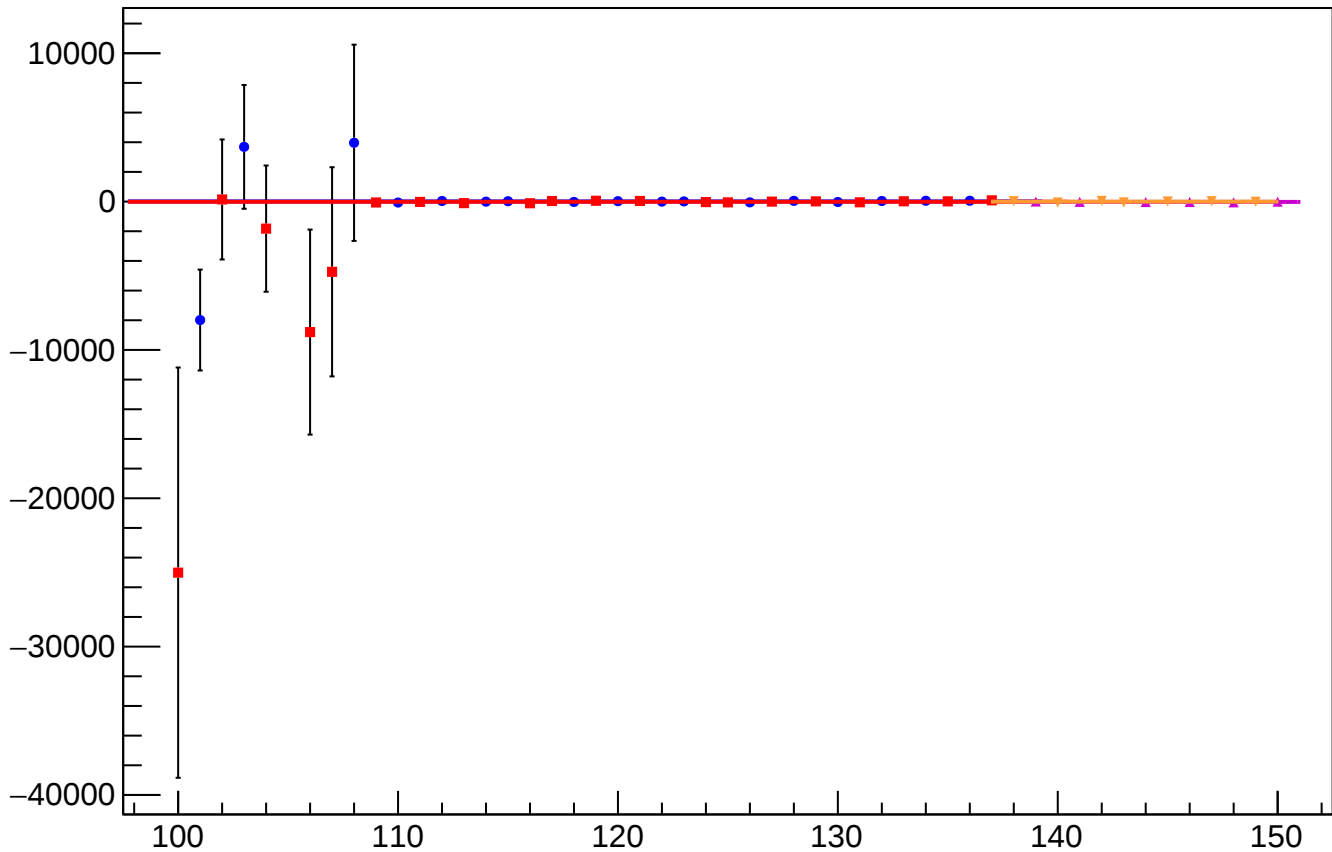
Right Out: 173.536+/-0.057 χ^2/NDF : 4210933.2/19

Left In: 247.415+/-0.081 χ^2/NDF : 168798.5/5

213.797+/-0.049 χ^2/NDF : 4171468.1/23

198.136+/-0.047 χ^2/NDF : 4938332.5/25

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: -4.674+/-13.601 χ^2/NDF : 7.9/6

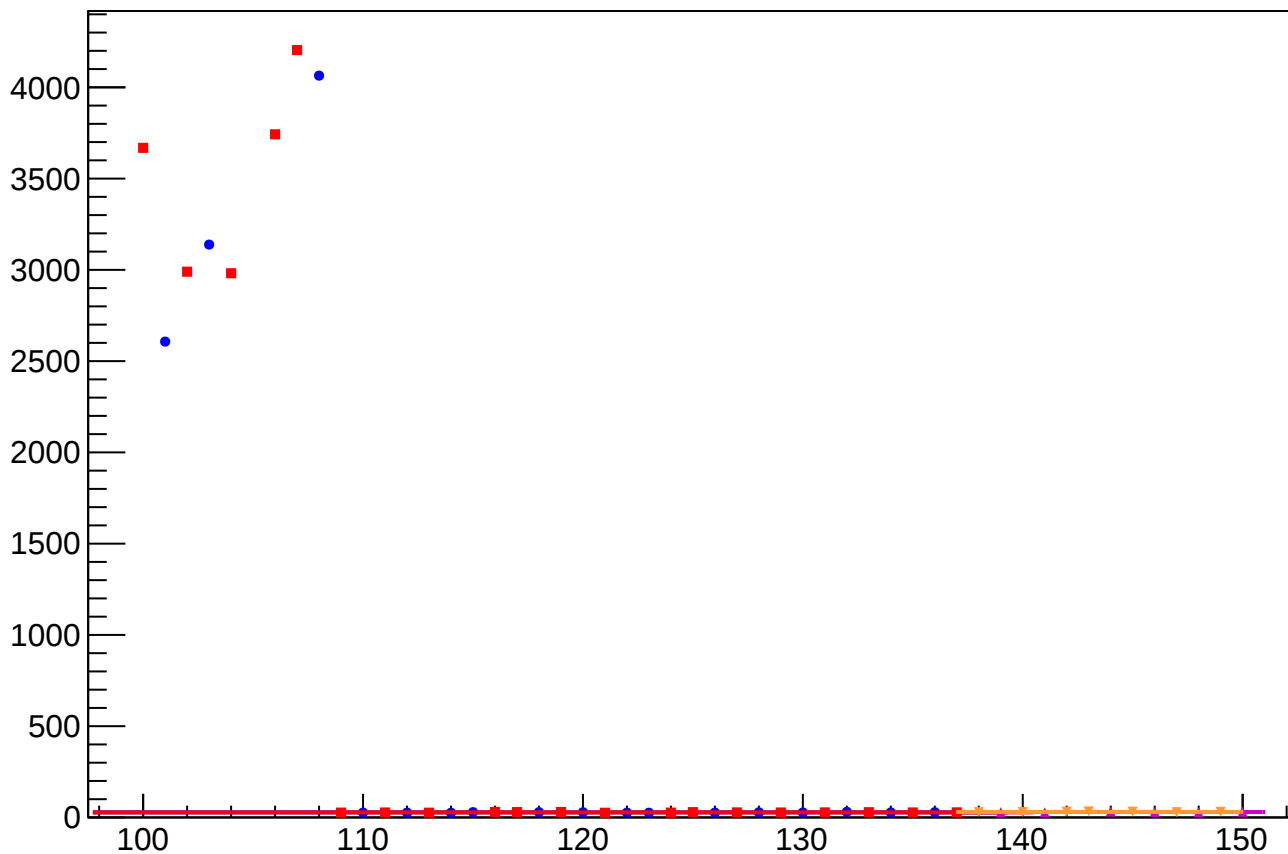
Right Out: -12.573+/-12.182 χ^2/NDF : 24.5/19

Left In: -22.739+/-13.518 χ^2/NDF : 1.8/5

3.684+/-9.077 χ^2/NDF : 26.8/23

-17.129+/-9.049 χ^2/NDF : 26.6/25

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: 30.249+/-0.010 χ^2/NDF : 20021.6/6

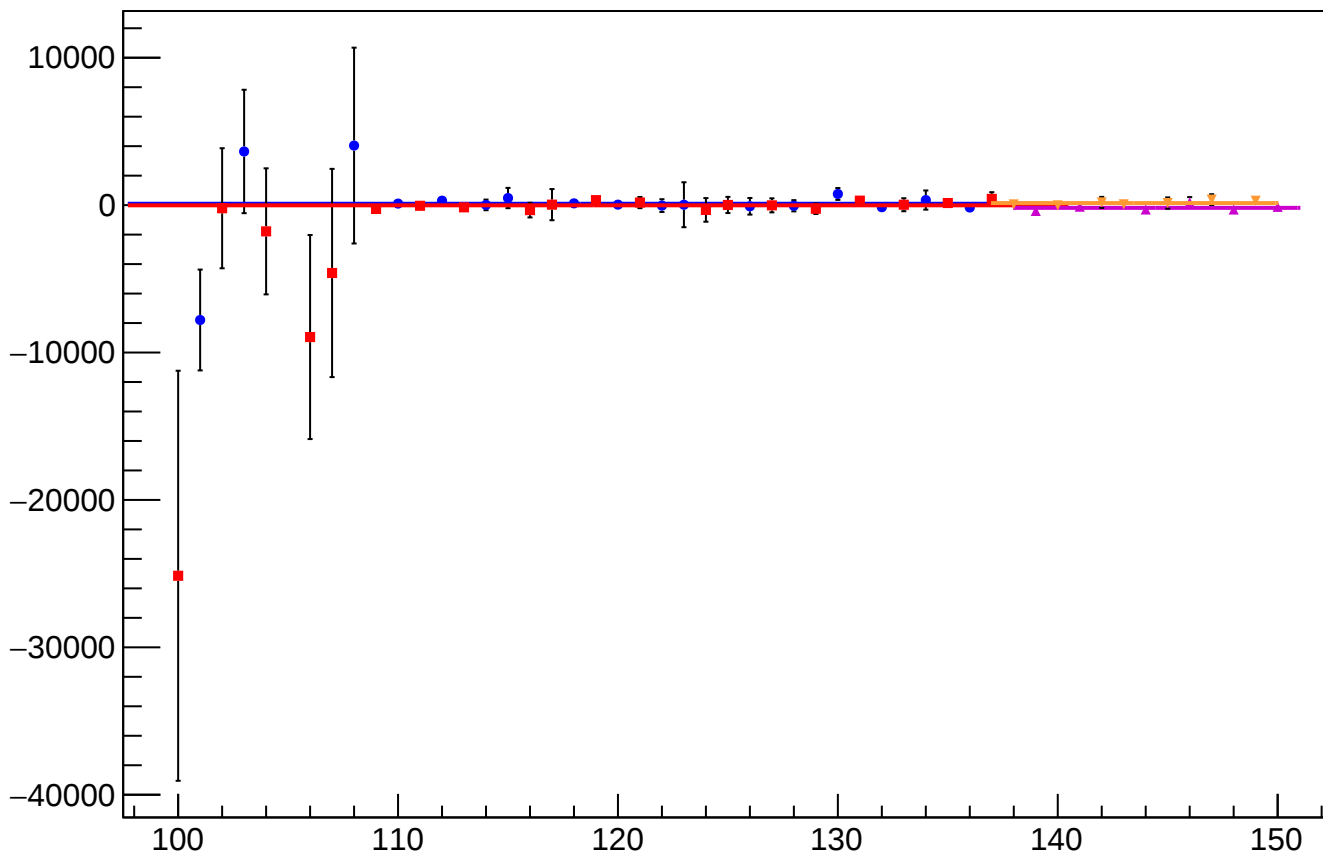
Right Out: 27.706+/-0.009 χ^2/NDF : 3477080.4/19

Left In: 29.763+/-0.010 χ^2/NDF : 25704.8/5

28.911+/-0.006 χ^2/NDF : 3081798.6/23

28.628+/-0.006 χ^2/NDF : 3528323.4/25

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: 139.965+/-115.307 χ^2/NDF : 1.3/6

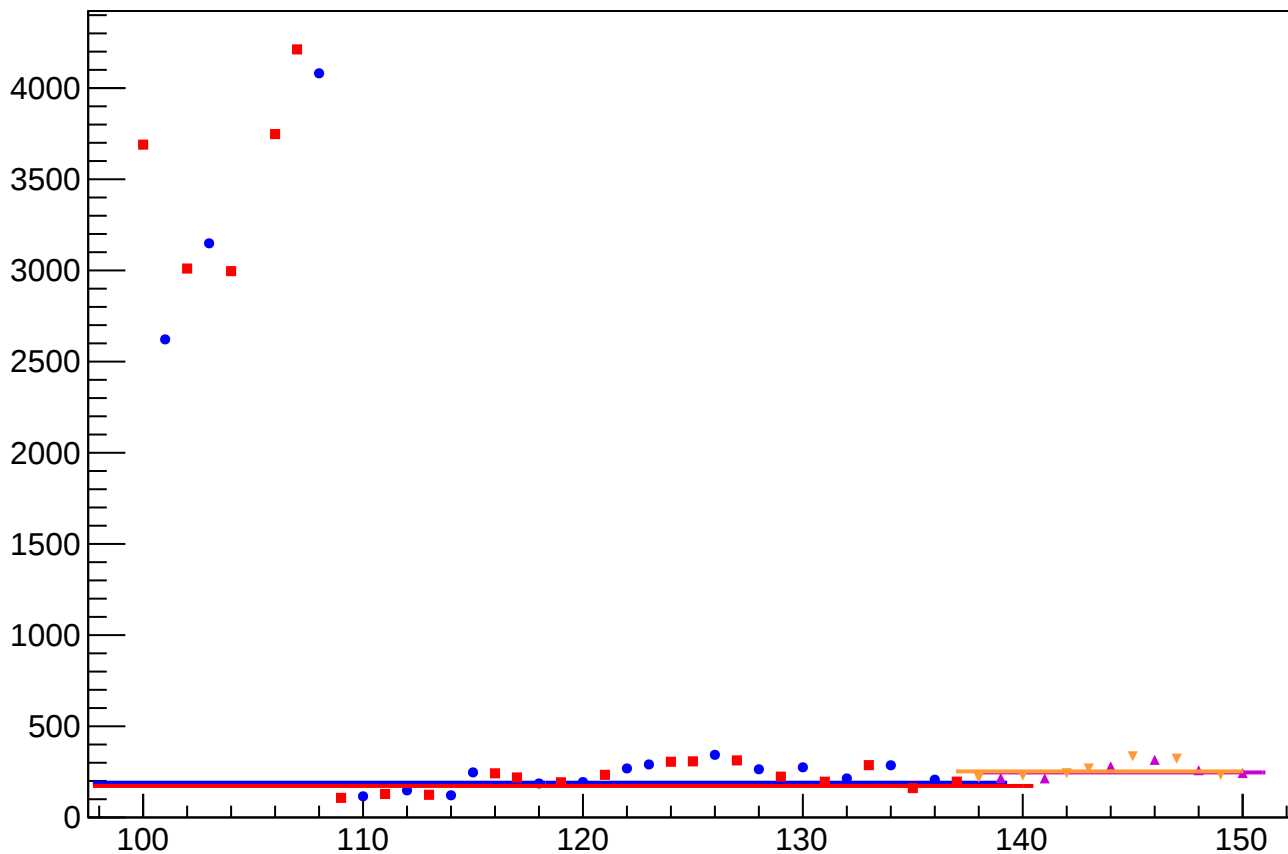
Right Out: -12.509+/-80.407 χ^2/NDF : 12.7/19

Left In: -184.813+/-113.933 χ^2/NDF : 2.2/5

110.025+/-69.632 χ^2/NDF : 14.1/23

-69.795+/-65.694 χ^2/NDF : 16.4/25

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: 252.572+/-0.082 χ^2/NDF : 235214.2/6

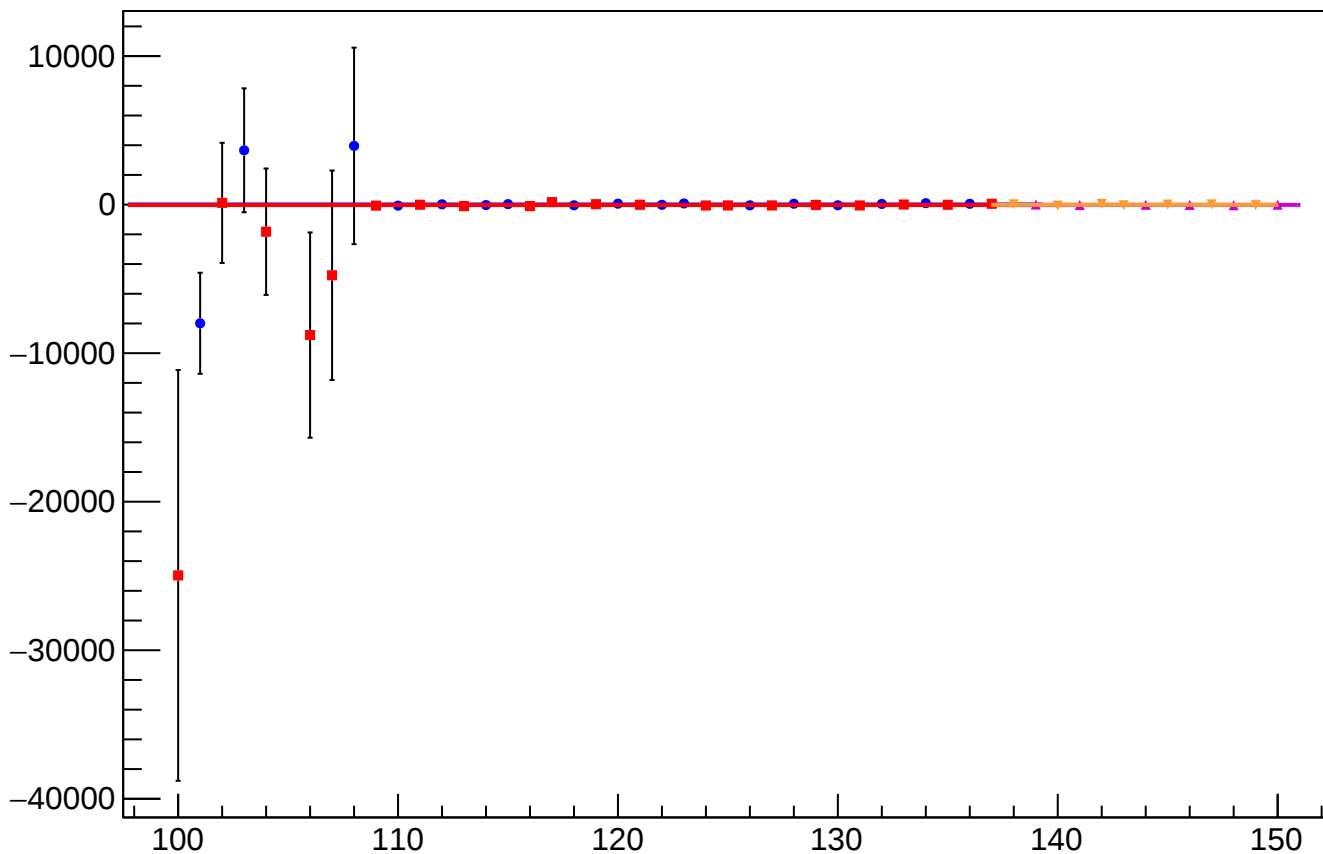
213.126+/-0.049 χ^2/NDF : 4187182.1/23

Right Out: 172.872+/-0.057 χ^2/NDF : 4222275.2/19

197.484+/-0.046 χ^2/NDF : 4954473.4/25

Left In: 246.899+/-0.081 χ^2/NDF : 168580.1/5

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: -11.008 $\pm$ 13.698 χ^2 /NDF: 7.1/6

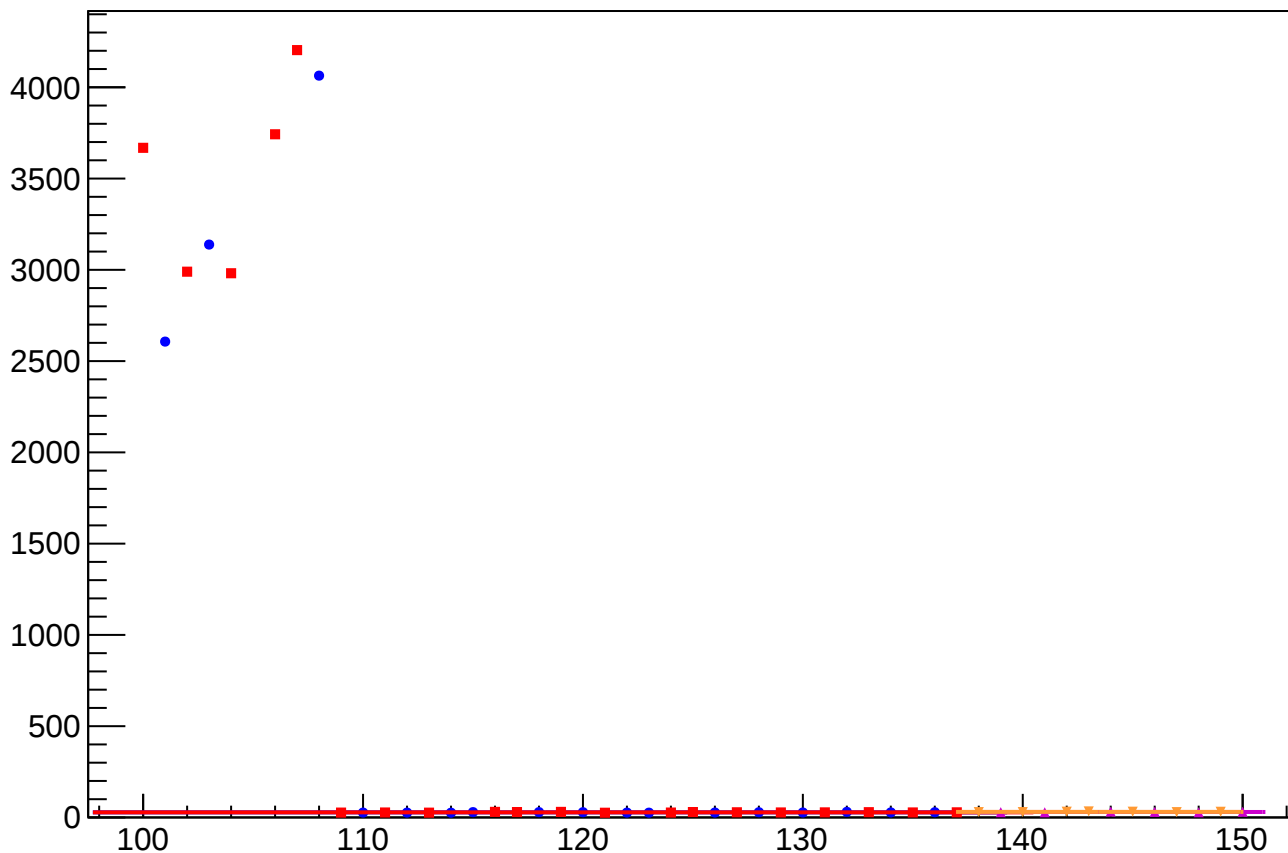
Right Out: -28.128 $\pm$ 12.282 χ^2 /NDF: 18.5/19

Left In: -15.330 $\pm$ 13.608 χ^2 /NDF: 1.3/5

0.423 $\pm$ 9.141 χ^2 /NDF: 31.6/23

-22.383 $\pm$ 9.118 χ^2 /NDF: 20.3/25

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: 30.463+/-0.010 χ^2/NDF :19927.1/6

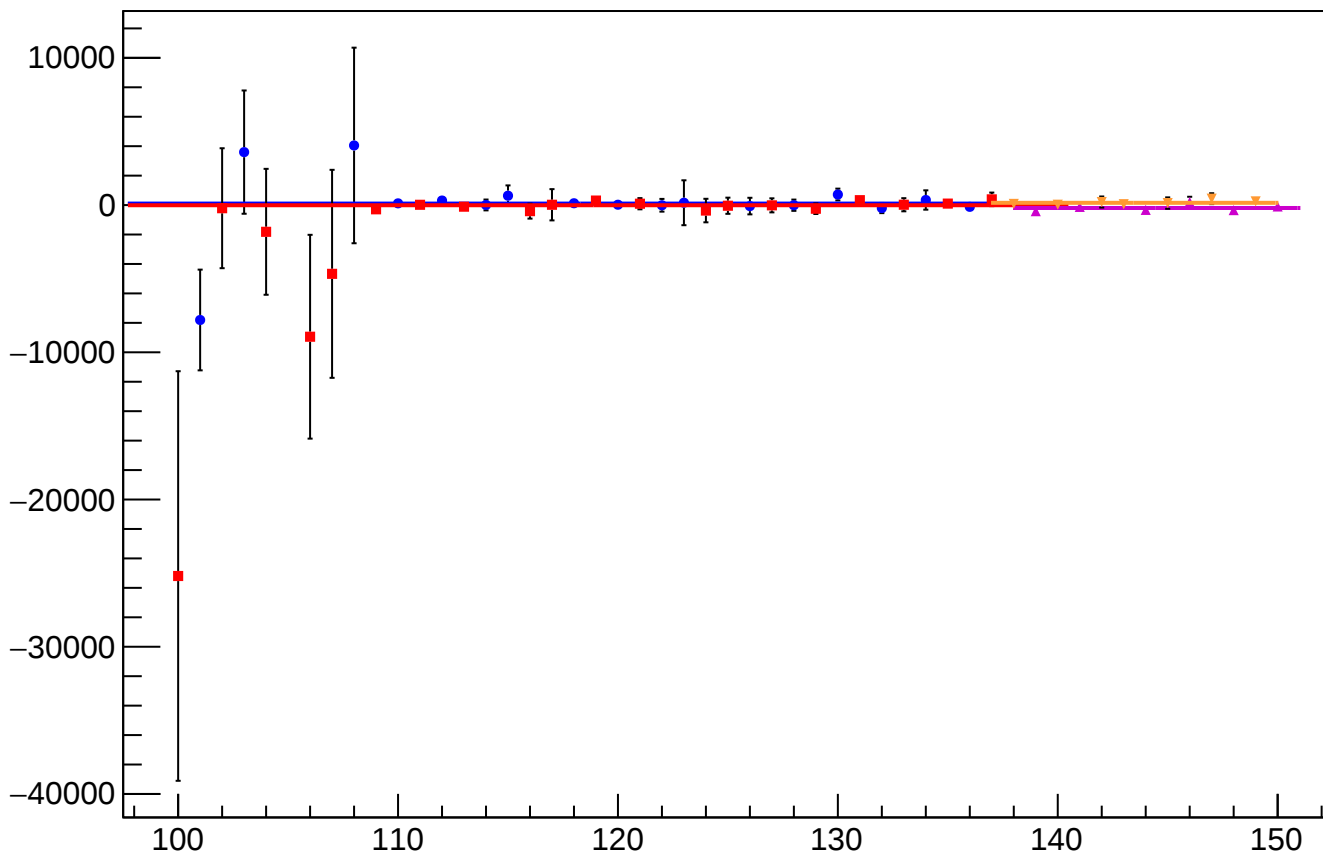
Right Out: 27.929+/-0.009 χ^2/NDF : 3479867.7/19

Left In: 29.957+/-0.010 χ^2/NDF :27248.9/5

29.109+/-0.006 χ^2/NDF : 3082126.8/23

28.839+/-0.006 χ^2/NDF : 3531590.1/25

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug



Right In: 101.772 ± 88.390 χ^2/NDF : 12.4/16

Left Out: 152.976 ± 116.797 χ^2/NDF : 1.1/6

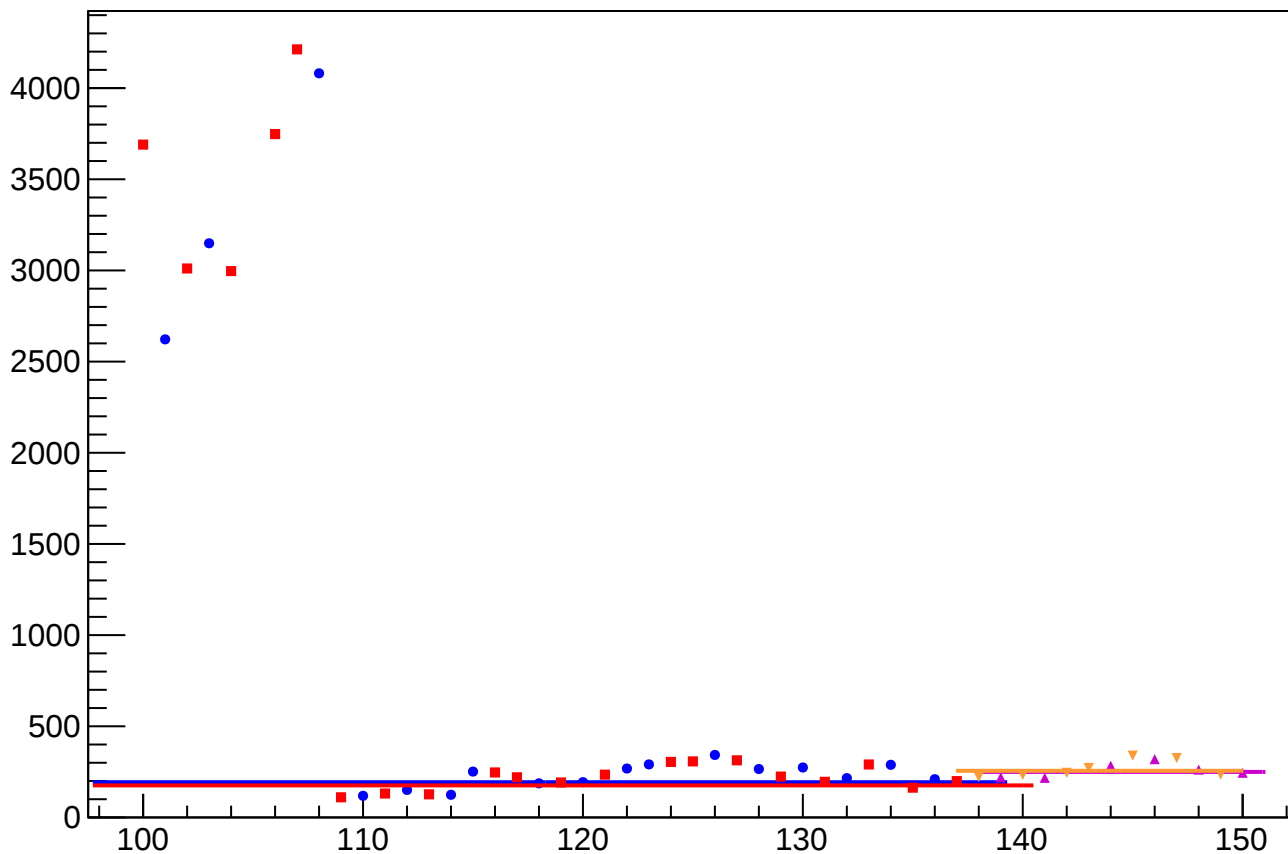
Right Out: -11.037 ± 81.486 χ^2/NDF : 12.3/19

Left In: -197.981 ± 115.244 χ^2/NDF : 2.6/5

120.418 ± 70.482 χ^2/NDF : 13.7/23

-73.348 ± 66.534 χ^2/NDF : 16.6/25

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: 255.911+/-0.083 χ^2/NDF : 231258.1/6

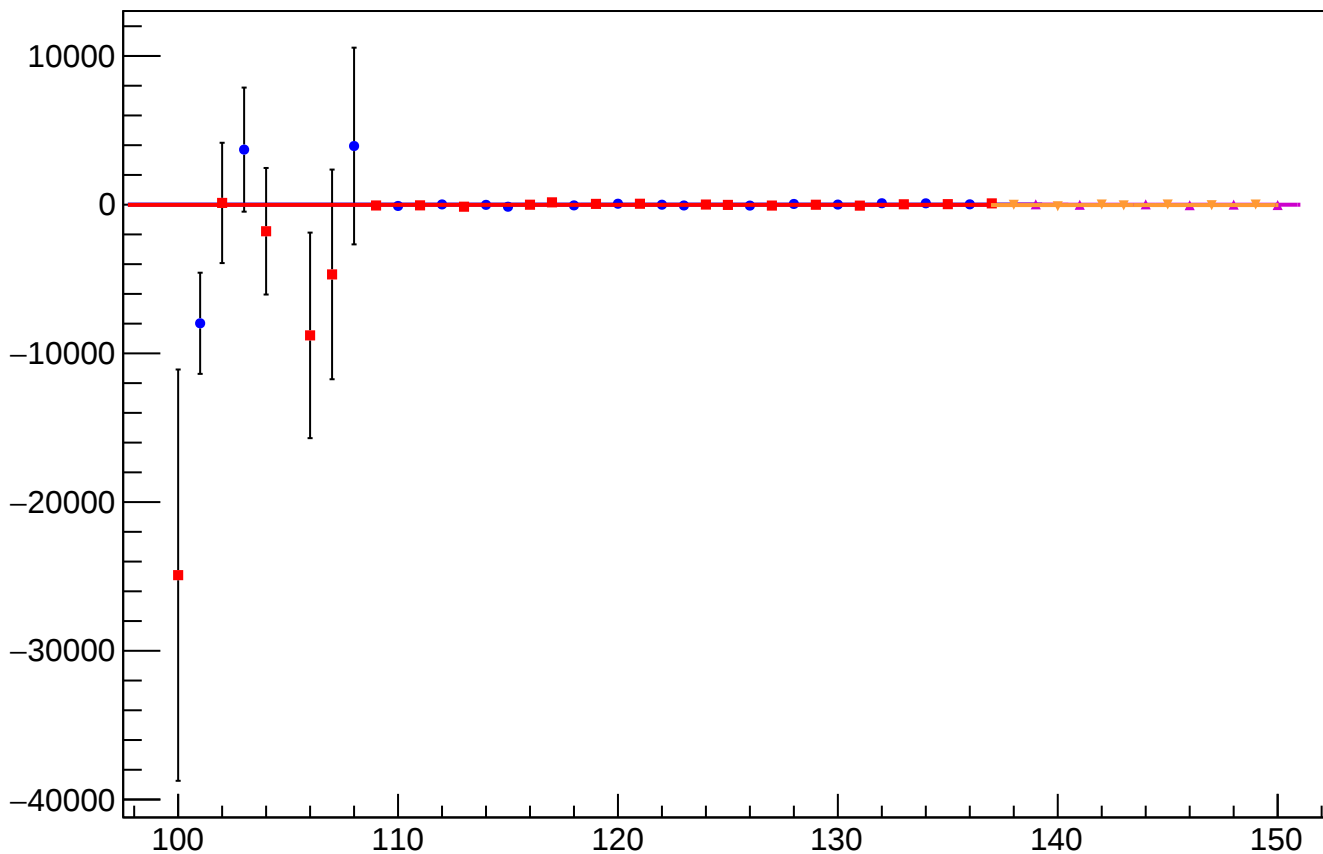
Right Out: 175.749+/-0.058 χ^2/NDF : 4168935.2/19

Left In: 249.796+/-0.081 χ^2/NDF : 167312.8/5

216.031+/-0.050 χ^2/NDF : 4134101.0/23

200.430+/-0.047 χ^2/NDF : 4886709.9/25

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug



Right In: 4.651+/-14.935 χ^2 /NDF: 20.4/16

Left Out: -26.516+/-16.120 χ^2 /NDF:6.6/6

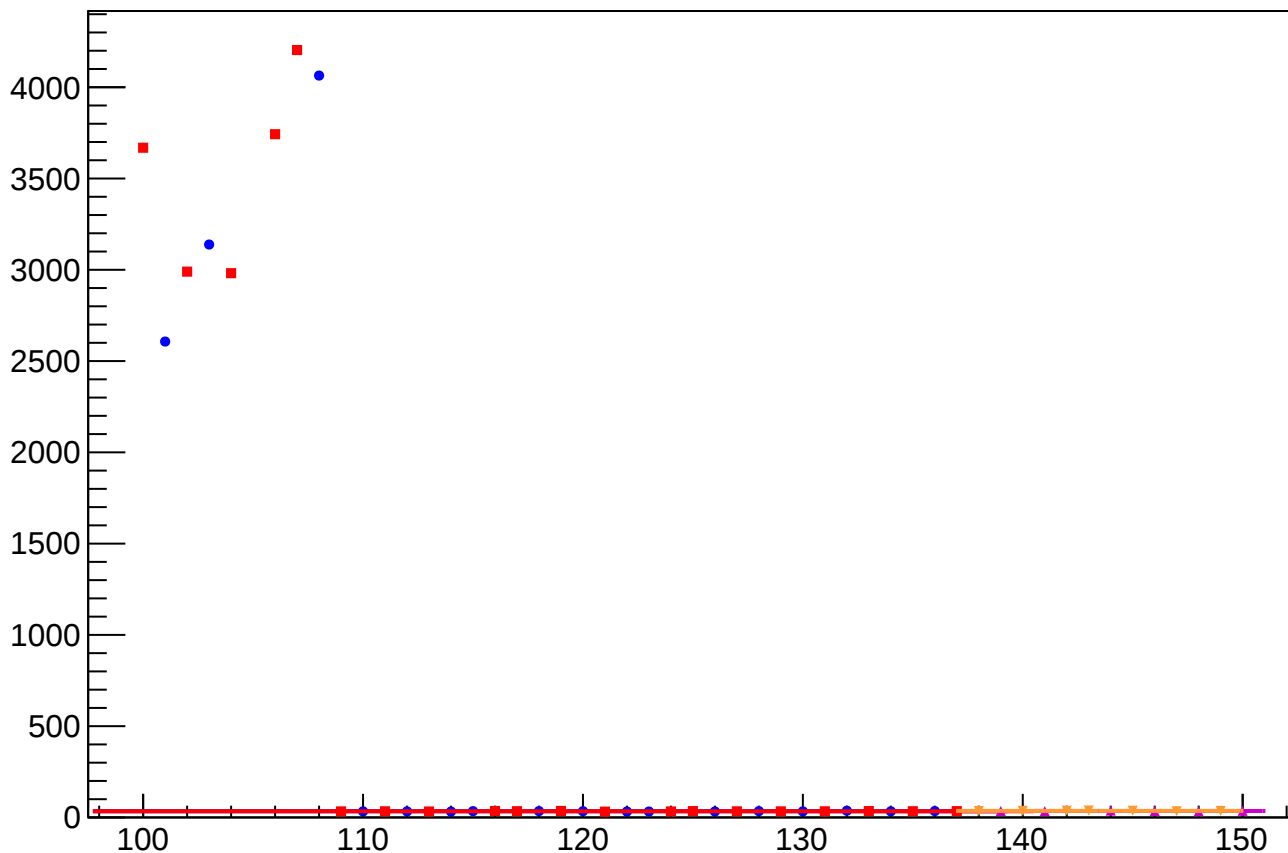
Right Out: -11.101+/-14.886 χ^2 /NDF: 22.7/19

Left In: -2.511+/-16.082 χ^2 /NDF:1.8/5

-9.745+/-10.956 χ^2 /NDF: 29.0/23

-7.138+/-10.924 χ^2 /NDF: 24.7/25

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug



Right In: 34.137+/-0.011 χ^2 /NDF: 3006248.0/16

Left Out: 35.913+/-0.011 χ^2 /NDF:10824.9/6

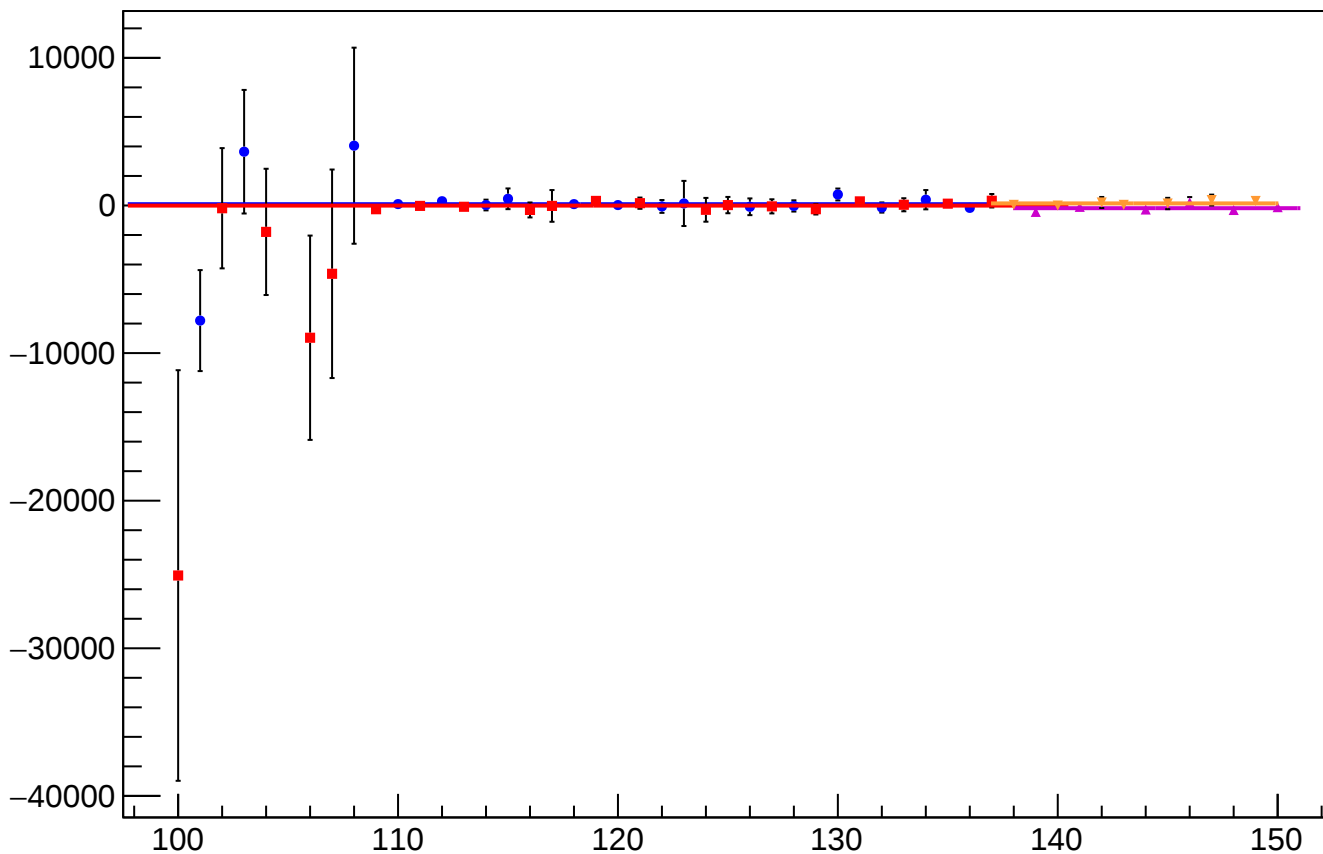
Right Out: 33.915+/-0.011 χ^2 /NDF: 3451897.1/19

Left In: 35.462+/-0.011 χ^2 /NDF:11114.1/5

34.957+/-0.008 χ^2 /NDF: 3030124.6/23

34.629+/-0.008 χ^2 /NDF: 3472976.3/25

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: 140.298+/-115.886 χ^2/NDF : 1.3/6

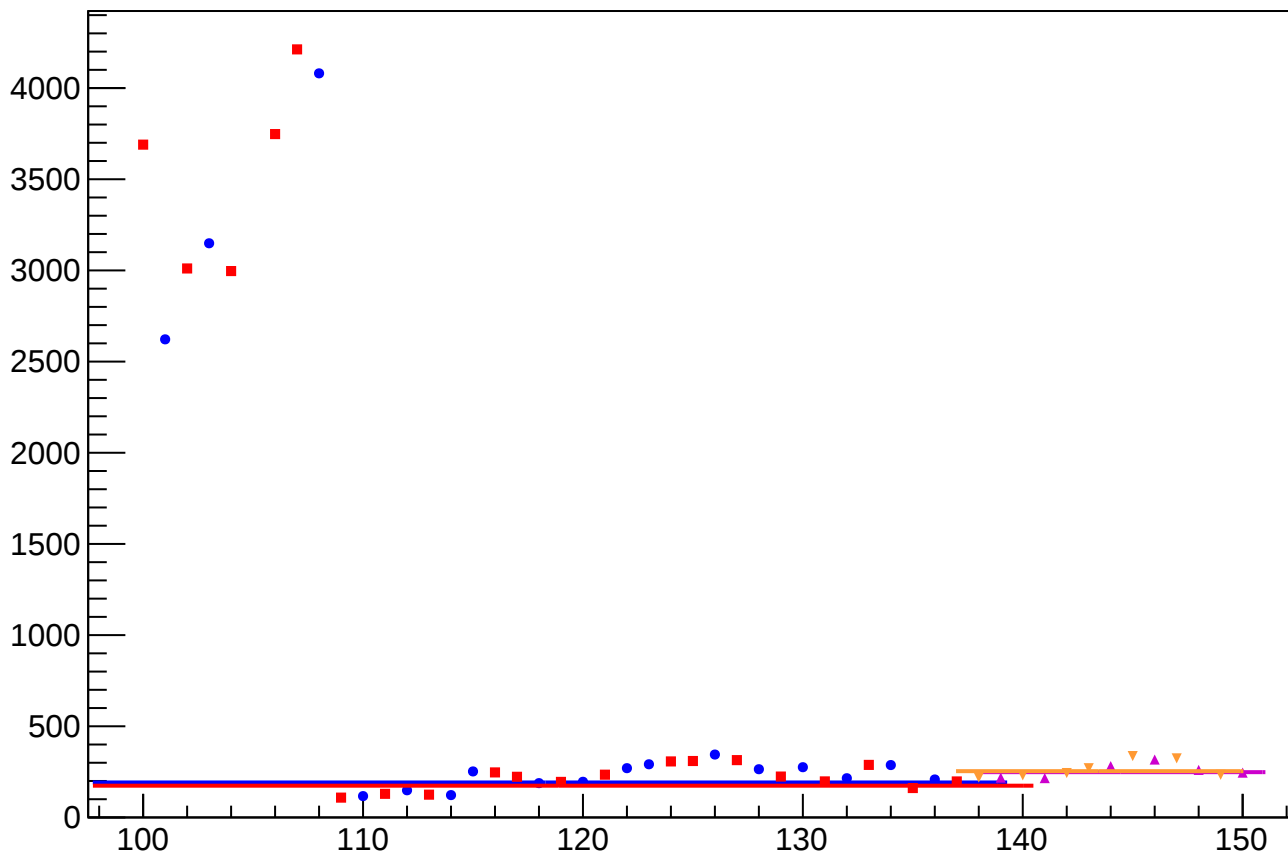
Right Out: -7.420+/-80.977 χ^2/NDF : 11.1/19

Left In: -183.305+/-114.625 χ^2/NDF : 2.6/5

105.870+/-70.057 χ^2/NDF : 13.9/23

-65.976+/-66.138 χ^2/NDF : 15.3/25

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: 253.841+/-0.082 χ^2/NDF : 235367.5/6

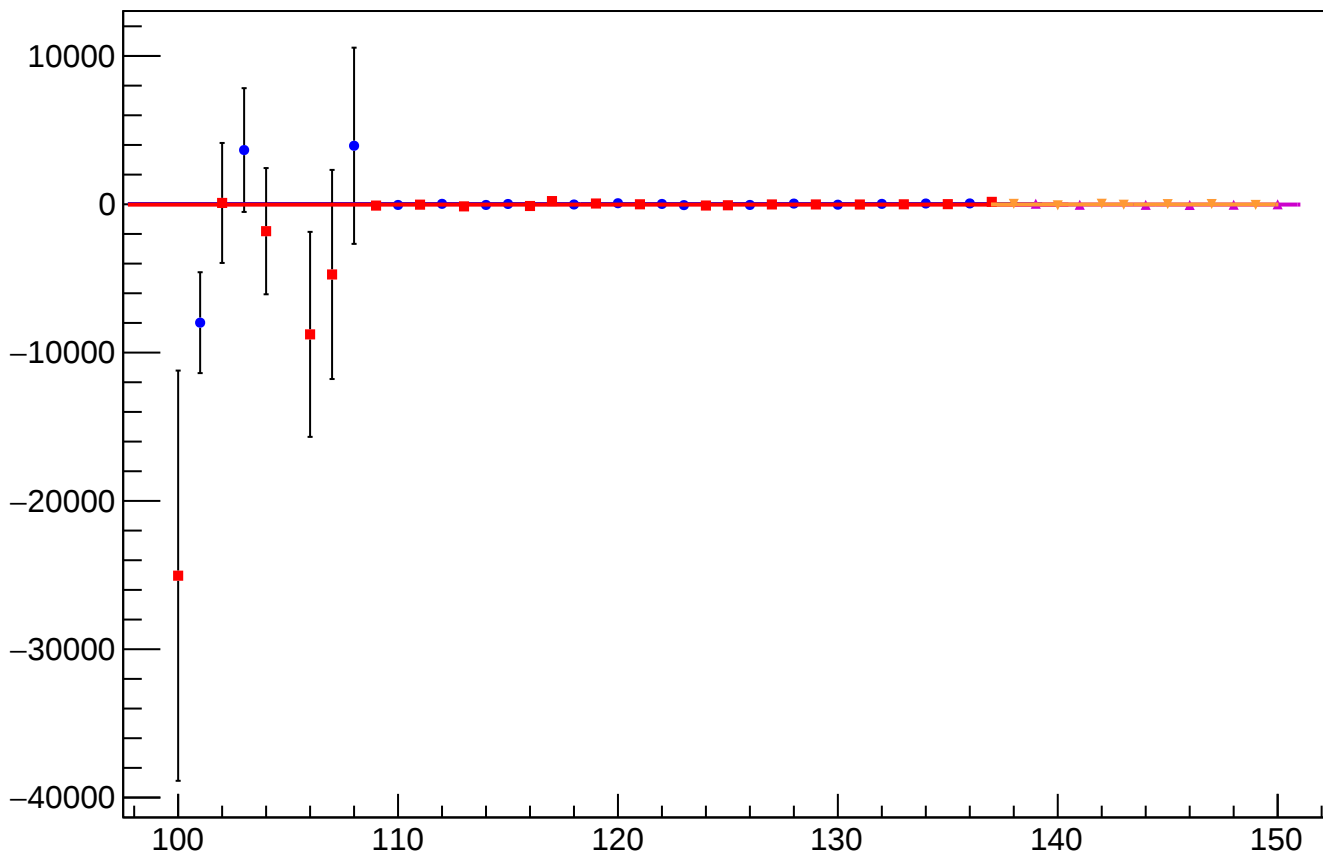
Right Out: 174.207+/-0.057 χ^2/NDF : 4215538.3/19

Left In: 248.424+/-0.081 χ^2/NDF : 167326.4/5

214.524+/-0.050 χ^2/NDF : 4171220.6/23

198.915+/-0.047 χ^2/NDF : 4942184.9/25

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: -11.105+/-14.851 χ^2/NDF : 6.5/6

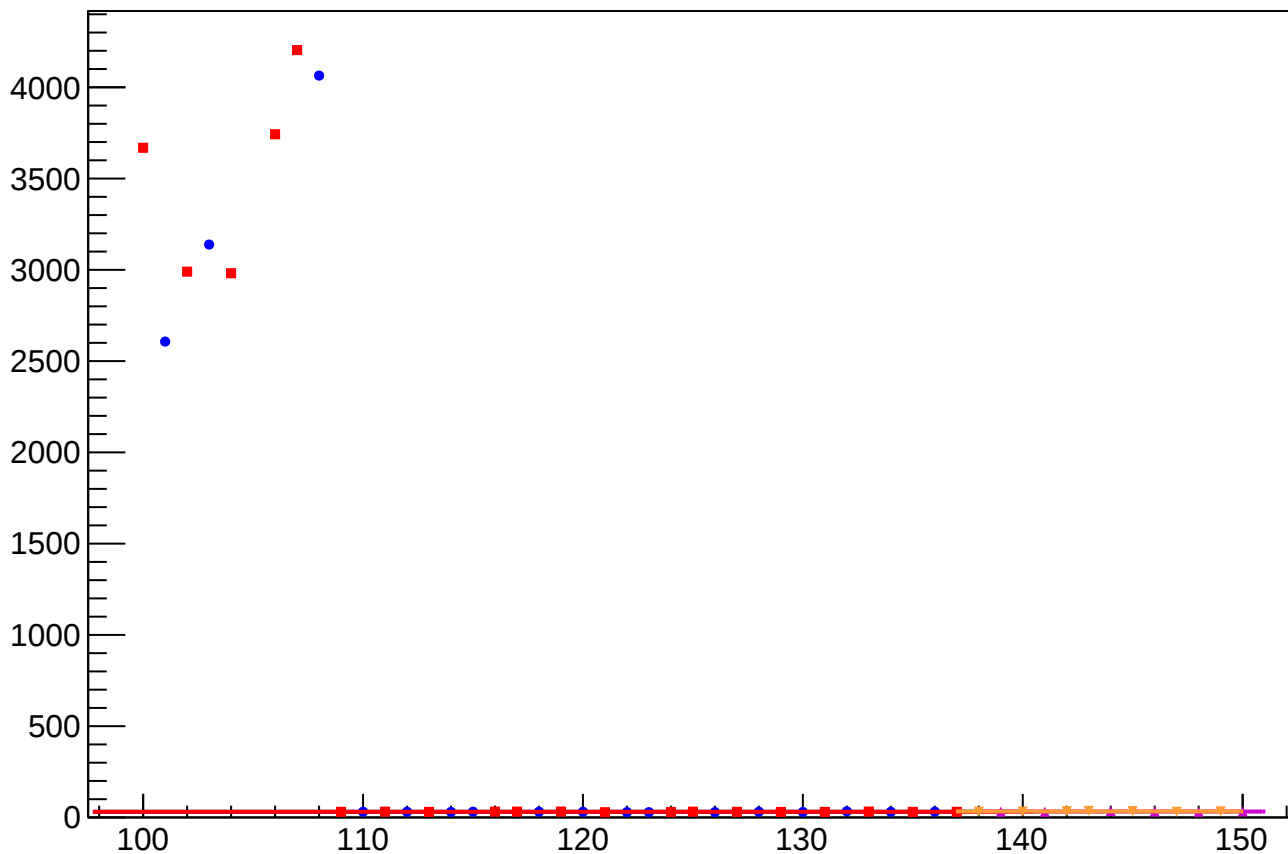
Right Out: -21.490+/-13.601 χ^2/NDF : 29.9/19

Left In: -19.496+/-14.691 χ^2/NDF : 3.4/5

2.599+/-10.037 χ^2/NDF : 23.3/23

-20.570+/-9.981 χ^2/NDF : 33.3/25

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: 33.042+/-0.011 χ^2/NDF :22774.4/6

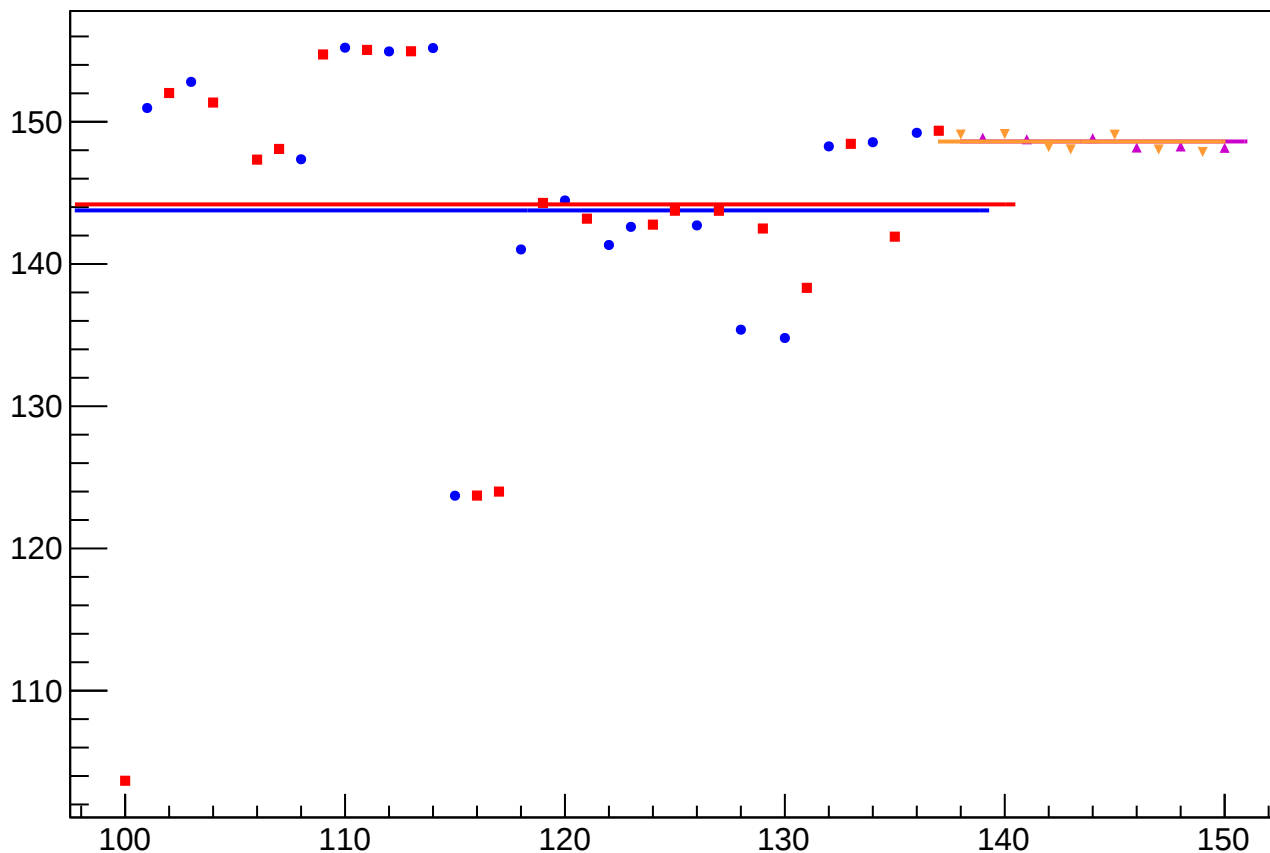
Right Out: 30.970+/-0.010 χ^2/NDF : 3459018.8/19

Left In: 32.372+/-0.010 χ^2/NDF :19941.6/5

32.002+/-0.007 χ^2/NDF : 3055272.5/23

31.617+/-0.007 χ^2/NDF : 3488756.4/25

yield_bcm_an_ds_mean vs Slug



Right In: 143.768 $\pm$ 0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.612 $\pm$ 0.000 χ^2/NDF : 12072638.0/6

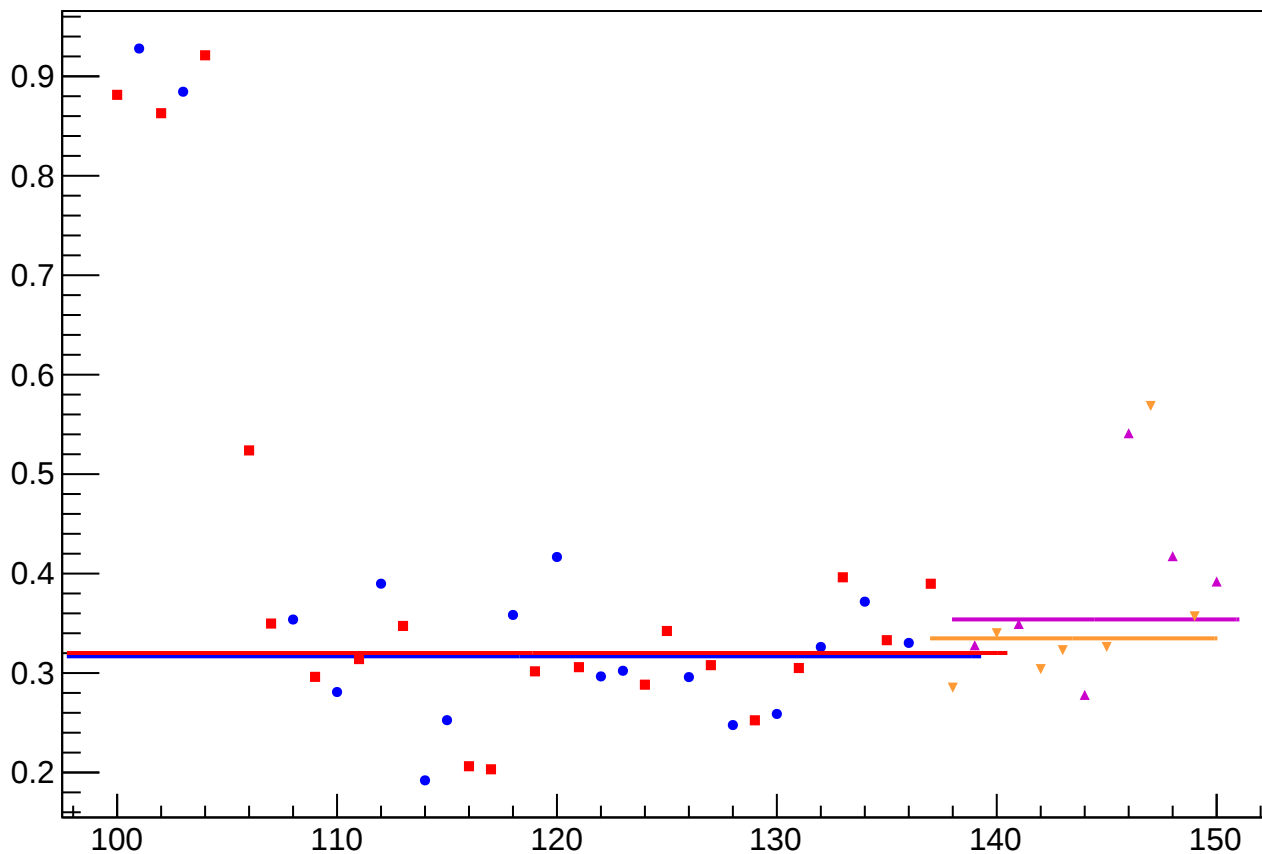
Right Out: 144.192 $\pm$ 0.000 χ^2/NDF : 4524049993.1/19

Left In: 148.616 $\pm$ 0.000 χ^2/NDF : 3284779.2/5

145.827 $\pm$ 0.000 χ^2/NDF : 4099337649.2/23

145.898 $\pm$ 0.000 χ^2/NDF : 4960481626.3/25

yield_bcm_an_ds_rms vs Slug



Right In: 0.317+/-0.000 χ^2/NDF : 1278613.2/16

Left Out: 0.335+/-0.000 χ^2/NDF : 309269.4/6

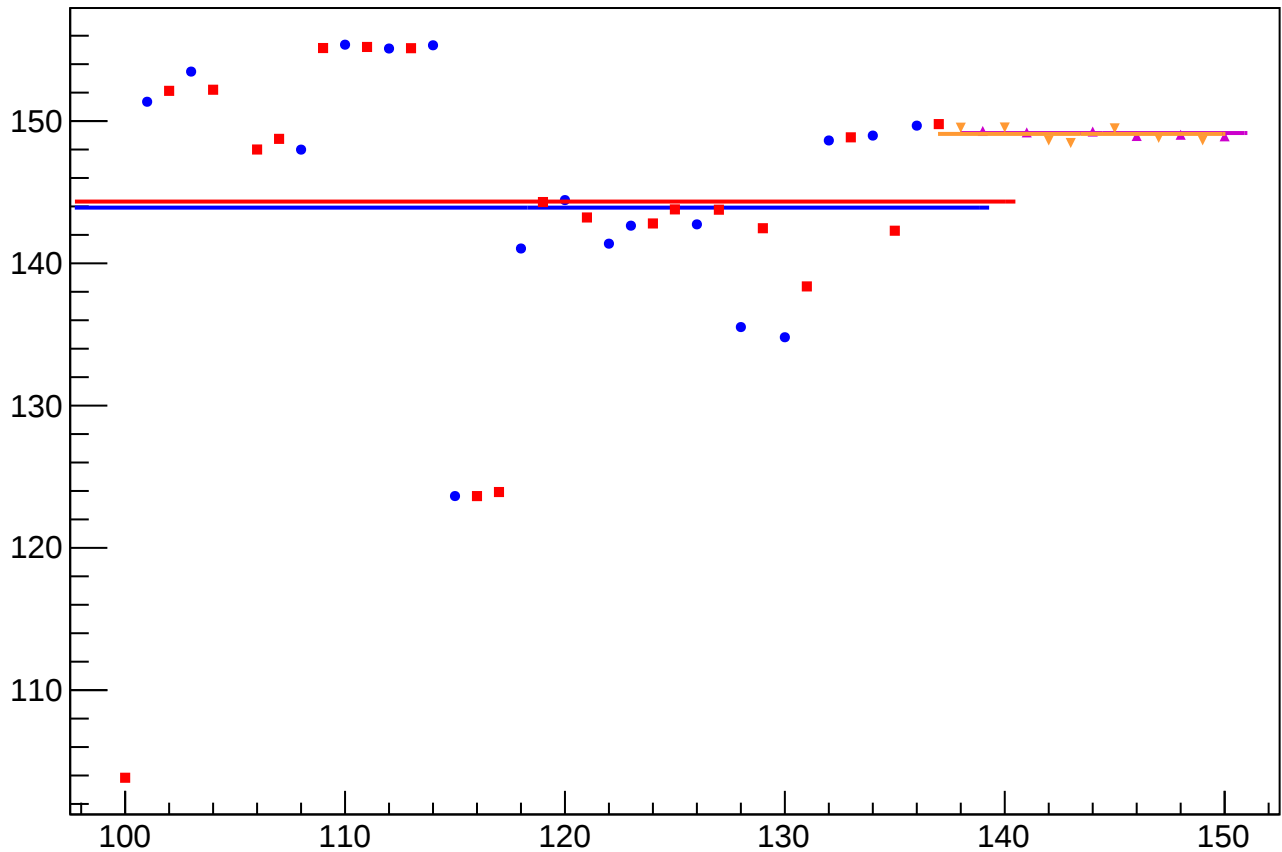
Right Out: 0.320+/-0.000 χ^2/NDF : 1240600.2/19

Left In: 0.354+/-0.000 χ^2/NDF : 374327.7/5

0.324+/-0.000 χ^2/NDF : 1603290.1/23

0.333+/-0.000 χ^2/NDF : 1665307.0/25

yield_bcm_an_ds3_mean vs Slug



Right In: 143.917 $\pm$ 0.000 χ^2/NDF : 3584662767.5/16

Left Out: 149.098 $\pm$ 0.000 χ^2/NDF : 8798142.8/6

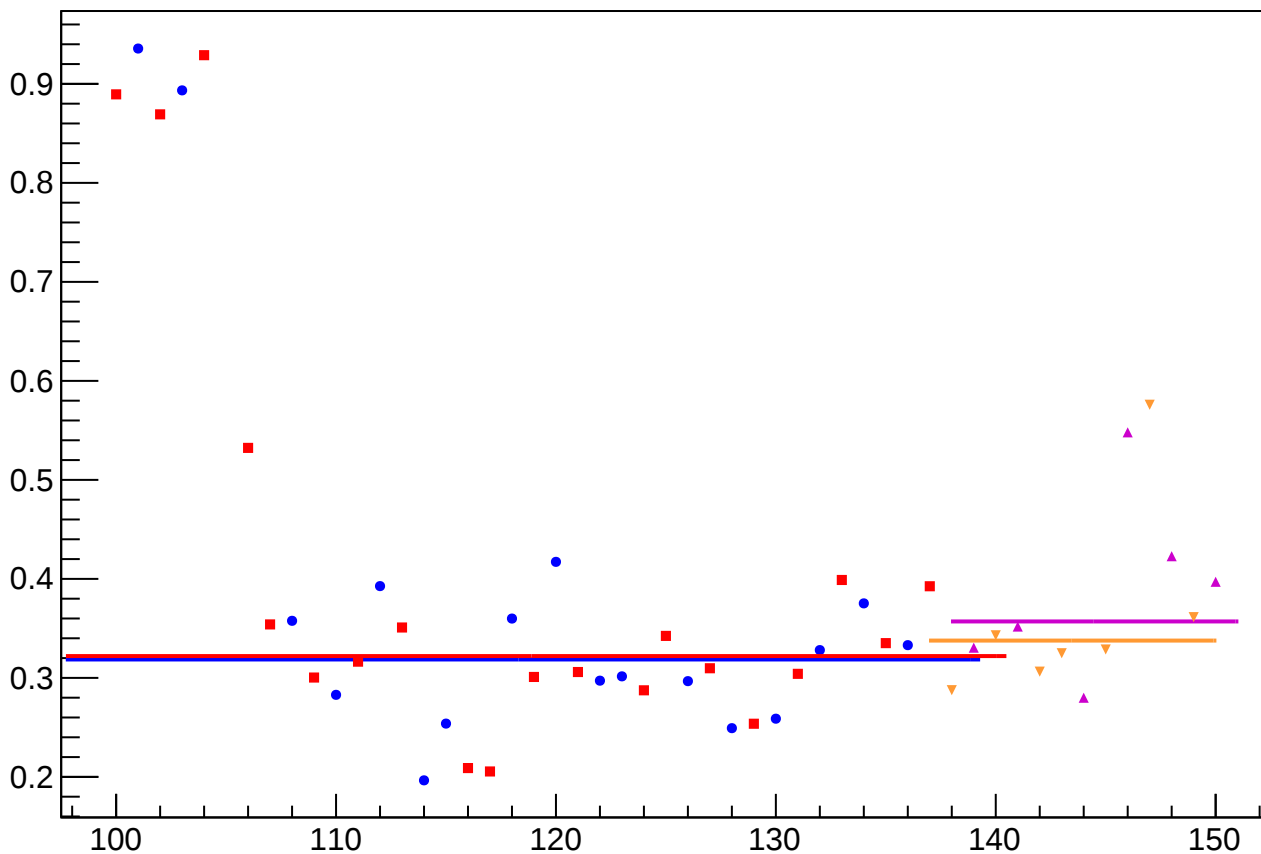
Right Out: 144.342 $\pm$ 0.000 χ^2/NDF : 4551365931.0/19

Left In: 149.159 $\pm$ 0.000 χ^2/NDF : 718449.8/5

146.112 $\pm$ 0.000 χ^2/NDF : 4219493975.5/23

146.192 $\pm$ 0.000 χ^2/NDF : 5057502690.6/25

yield_bcm_an_ds3_rms vs Slug



Right In: 0.319 ± 0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.338 ± 0.000 χ^2/NDF : 313826.1/6

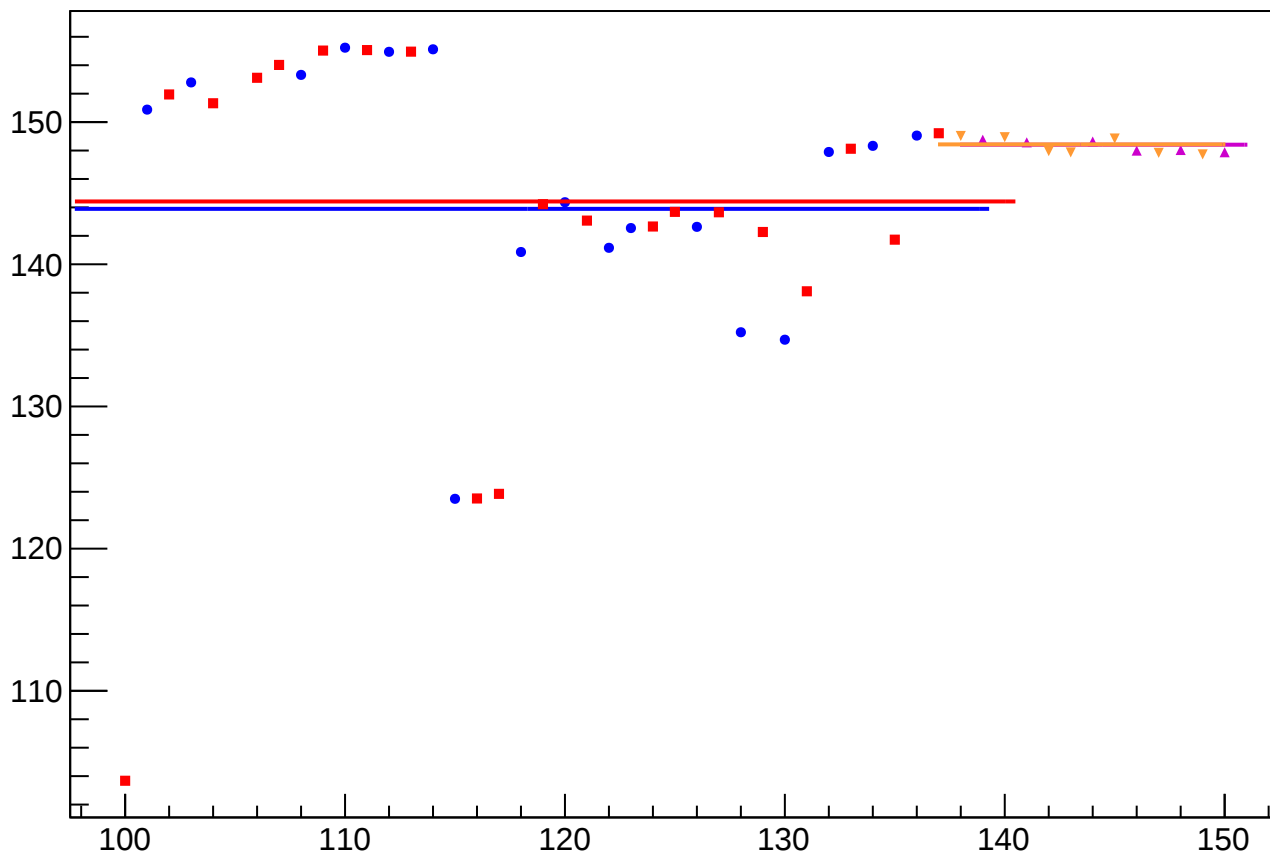
Right Out: 0.322 ± 0.000 χ^2/NDF : 1243109.0/19

Left In: 0.357 ± 0.000 χ^2/NDF : 382223.7/5

0.327 ± 0.000 χ^2/NDF : 1611559.1/23

0.335 ± 0.000 χ^2/NDF : 1678660.8/25

yield_bcm_an_us_mean vs Slug



Right In: 143.899 ± 0.000 χ^2/NDF : 3749888331.0/16

Left Out: 148.432 ± 0.000 χ^2/NDF : 12649064.2/6

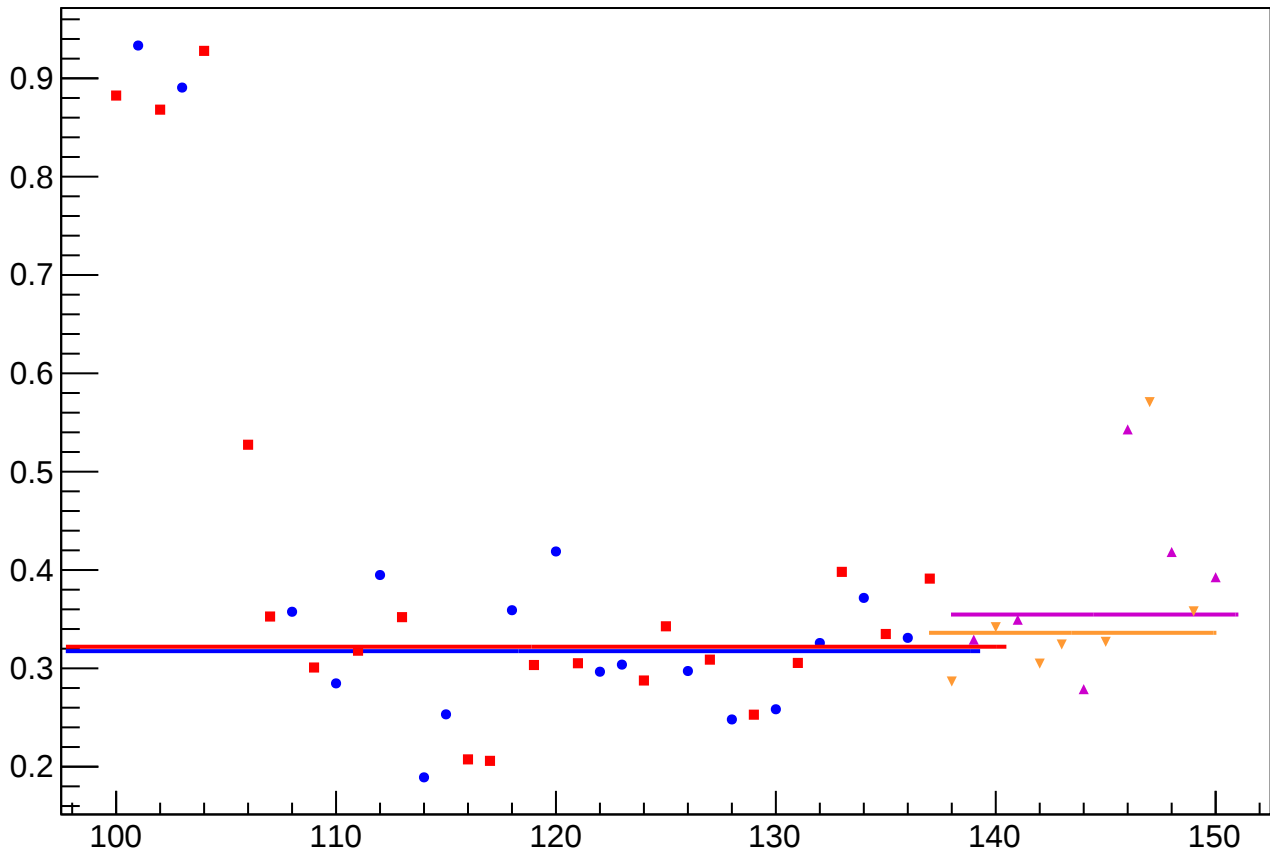
Right Out: 144.419 ± 0.000 χ^2/NDF : 4820290476.6/19

Left In: 148.410 ± 0.000 χ^2/NDF : 4079569.1/5

145.824 ± 0.000 χ^2/NDF : 4245525994.5/23

145.964 ± 0.000 χ^2/NDF : 5174486573.4/25

yield_bcm_an_us_rms vs Slug



Right In: 0.317+/-0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.336+/-0.000 χ^2/NDF : 308918.5/6

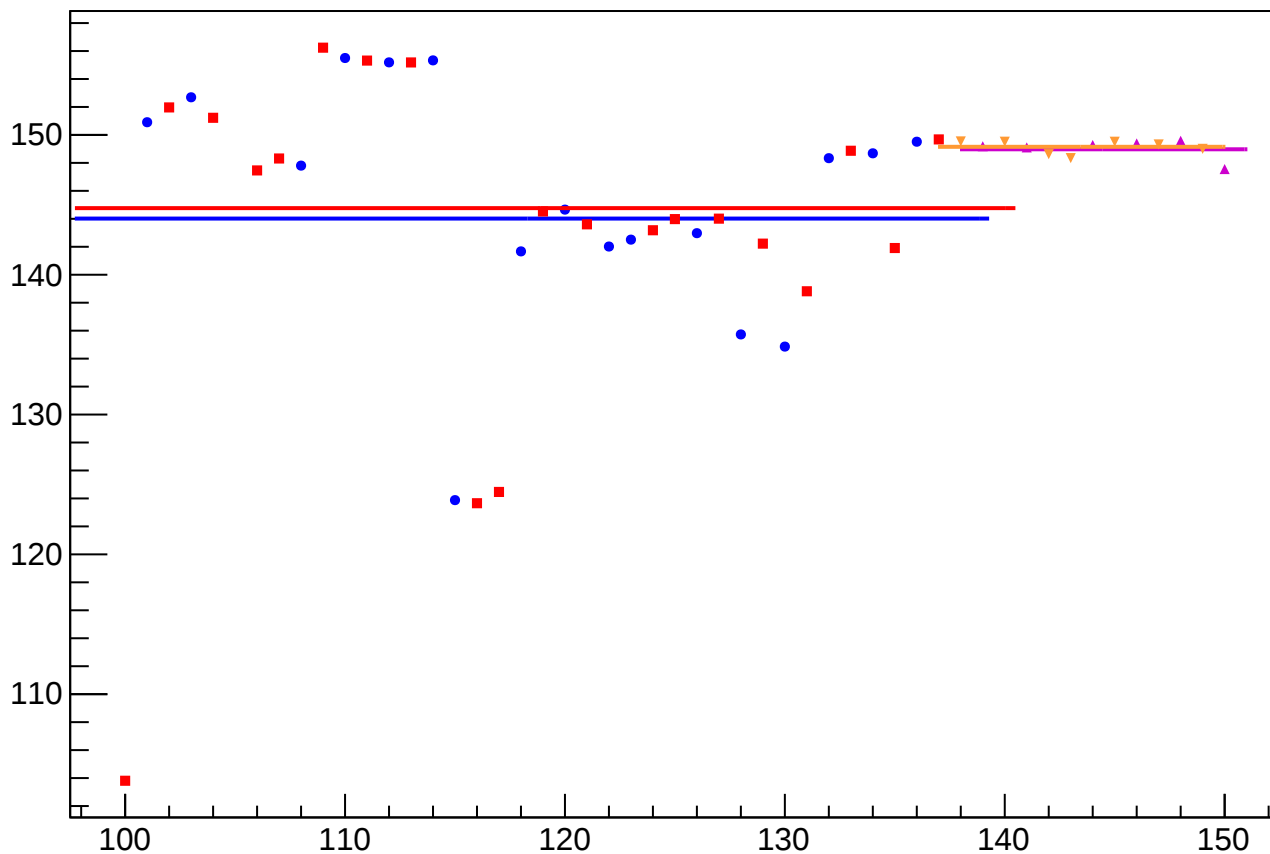
Right Out: 0.322+/-0.000 χ^2/NDF : 1243703.4/19

Left In: 0.355+/-0.000 χ^2/NDF : 373873.8/5

0.325+/-0.000 χ^2/NDF : 1618446.9/23

0.335+/-0.000 χ^2/NDF : 1664666.6/25

yield_bcm_dg_us_mean vs Slug



Right In: 144.018 ± 0.000 χ^2/NDF : 3238525527.6/16

Left Out: 149.150 ± 0.000 χ^2/NDF : 7438925.1/6

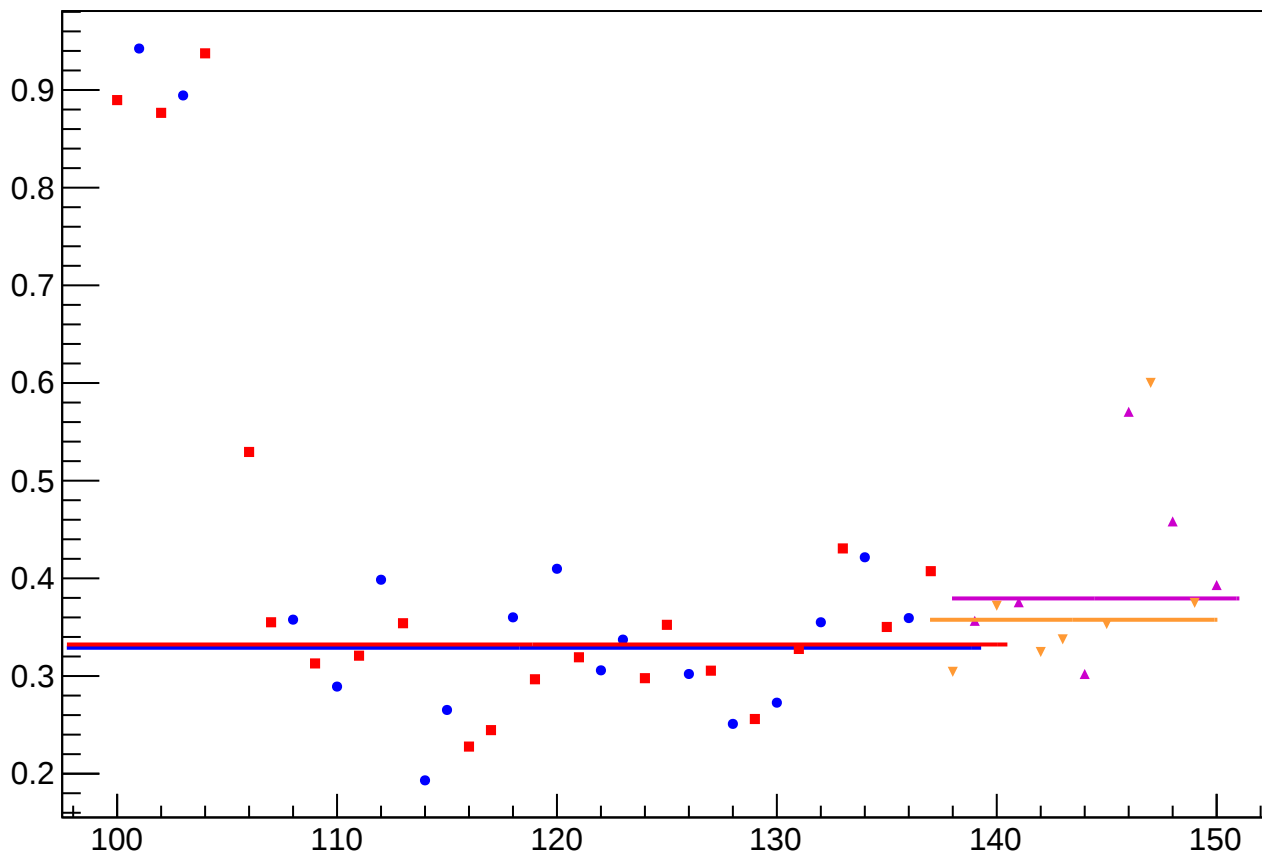
Right Out: 144.764 ± 0.000 χ^2/NDF : 4098462011.9/19

Left In: 148.972 ± 0.000 χ^2/NDF : 14013280.9/5

146.124 ± 0.000 χ^2/NDF : 3801462441.7/23

146.322 ± 0.000 χ^2/NDF : 4462086435.4/25

yield_bcm_dg_us_rms vs Slug



Right In: 0.329 ± 0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.358 ± 0.000 χ^2/NDF : 300401.7/6

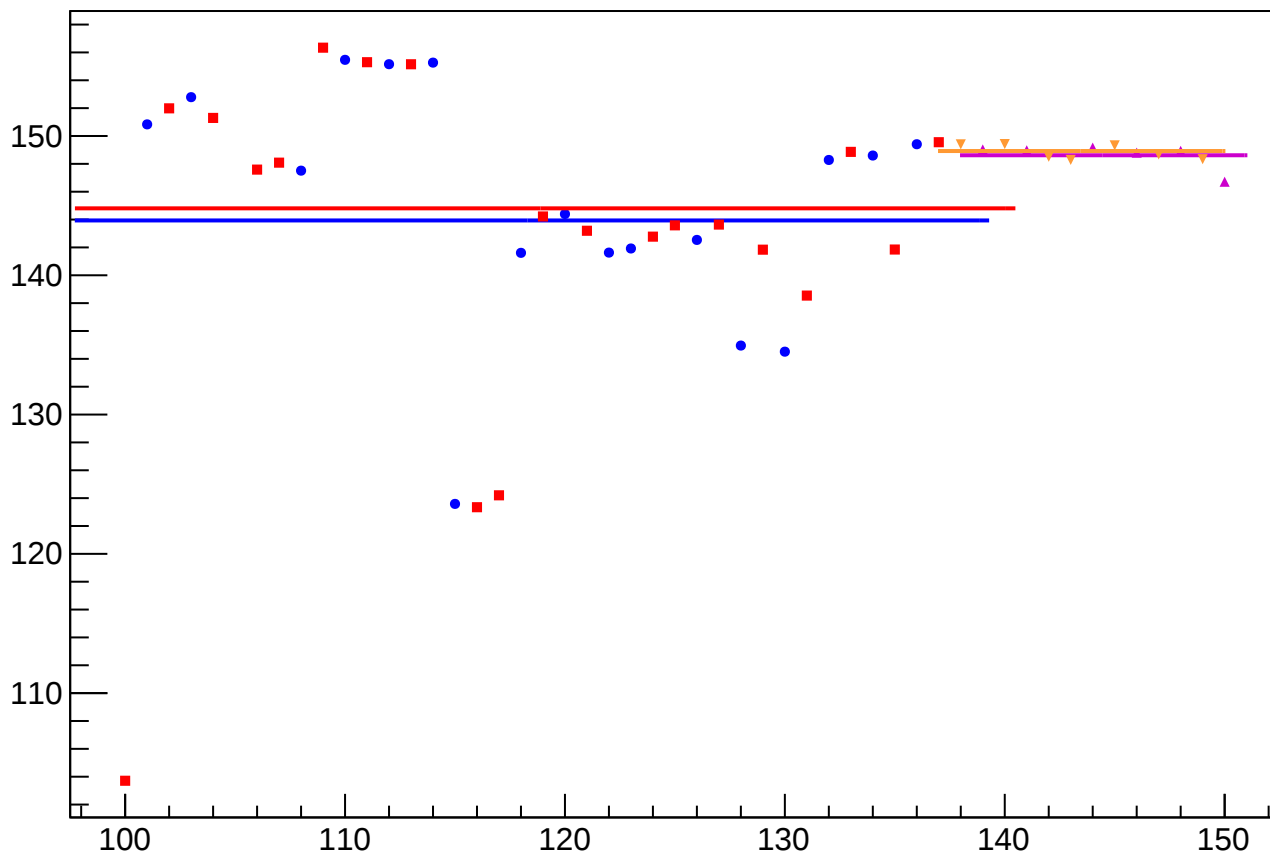
Right Out: 0.332 ± 0.000 χ^2/NDF : 1191637.2/19

Left In: 0.379 ± 0.000 χ^2/NDF : 337707.5/5

0.341 ± 0.000 χ^2/NDF : 1611132.7/23

0.350 ± 0.000 χ^2/NDF : 1617097.3/25

yield_bcm_dg_ds_mean vs Slug



Right In: 143.937 ± 0.000 χ^2/NDF : 3379203532.9/16

Left Out: 148.921 ± 0.000 χ^2/NDF : 8929637.6/6

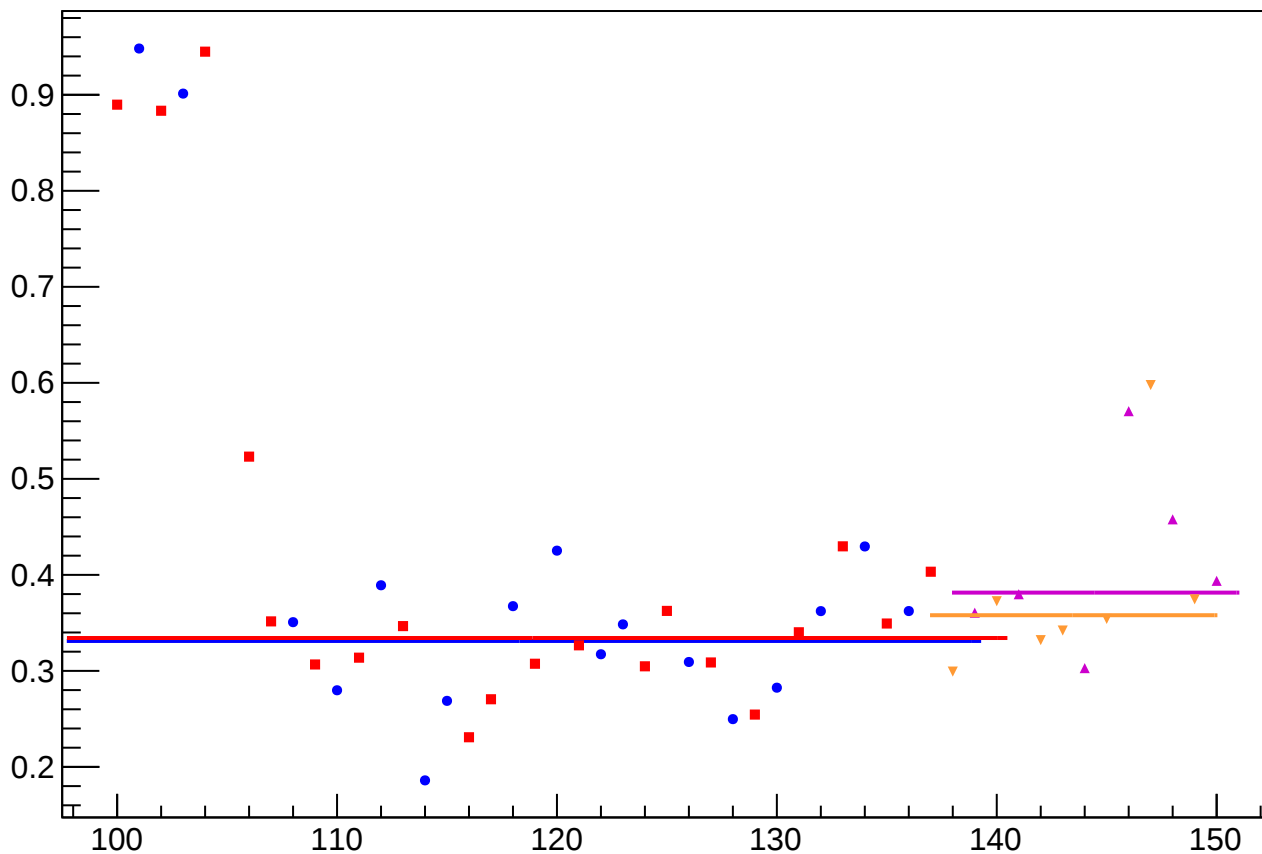
Right Out: 144.806 ± 0.000 χ^2/NDF : 4139087143.3/19

Left In: 148.617 ± 0.000 χ^2/NDF : 24657169.5/5

145.996 ± 0.000 χ^2/NDF : 3906380485.3/23

146.216 ± 0.000 χ^2/NDF : 4446554286.9/25

yield_bcm_dg_ds_rms vs Slug



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.358+/-0.000 χ^2/NDF : 301314.7/6

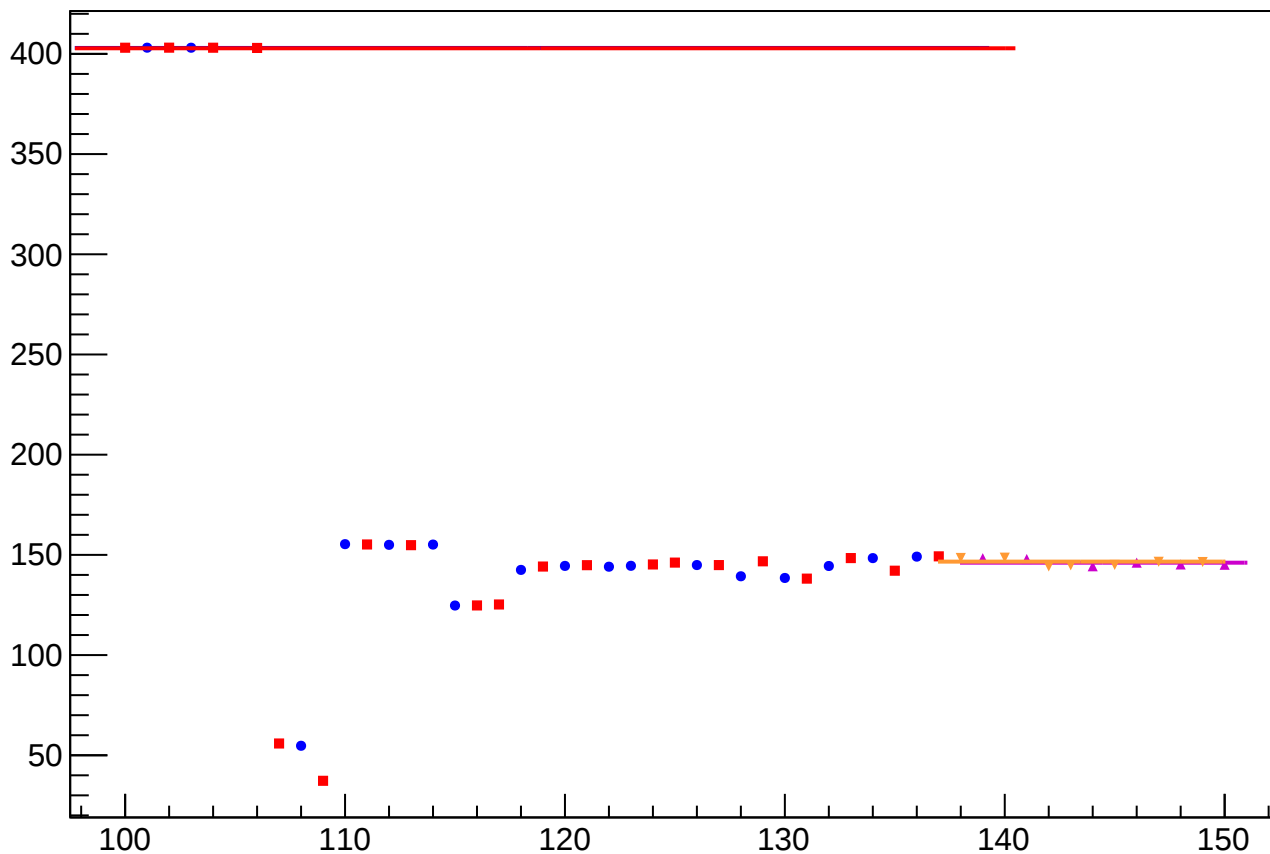
Right Out: 0.334+/-0.000 χ^2/NDF : 1176170.4/19

Left In: 0.382+/-0.000 χ^2/NDF : 331102.6/5

0.342+/-0.000 χ^2/NDF : 1627048.1/23

0.352+/-0.000 χ^2/NDF : 1594296.4/25

yield_cav4bQ_mean vs Slug



Right In: 402.957+/-0.000 χ^2/NDF : 1096710296821.6/16

Left Out: 146.636+/-0.000 χ^2/NDF : 21627060.1/6

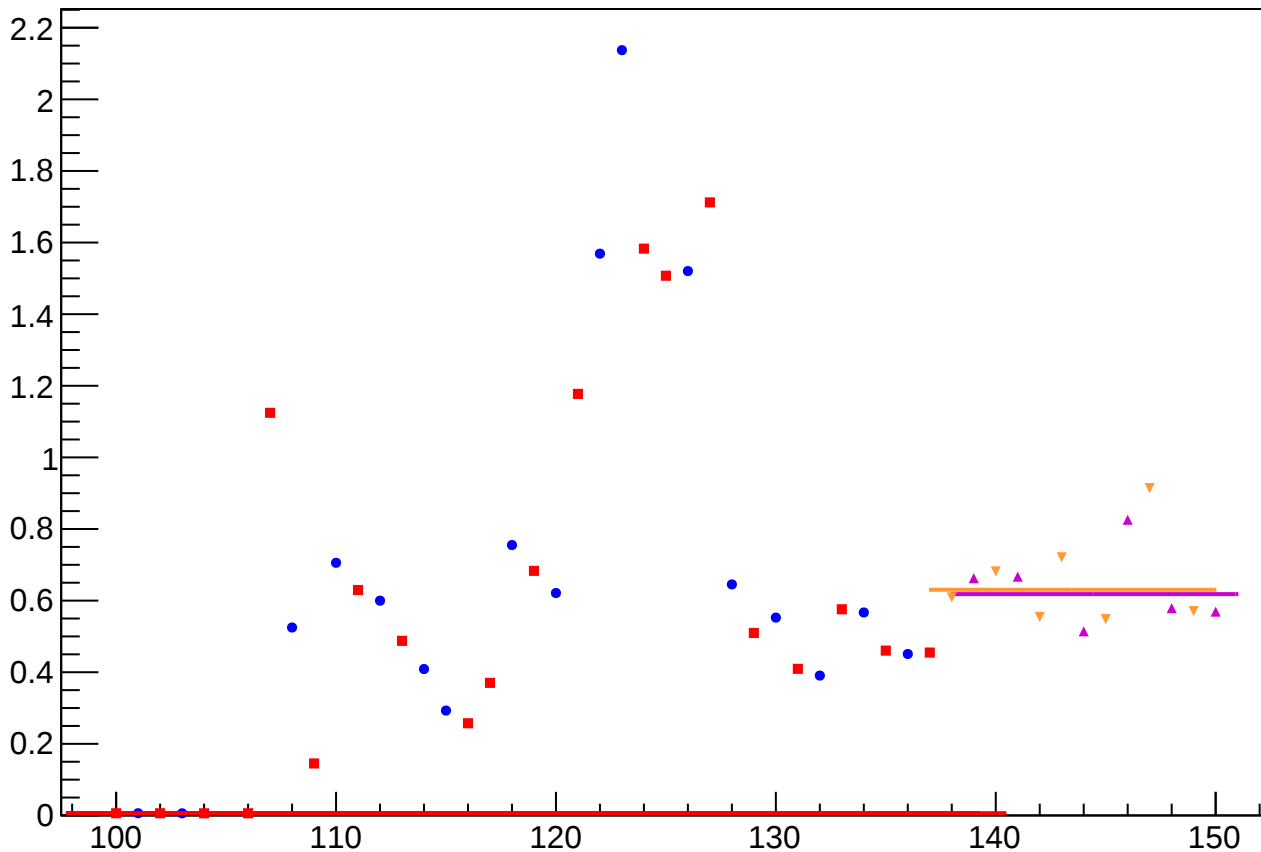
Right Out: 402.797+/-0.000 χ^2/NDF : 3122752044607.2/19

Left In: 146.102+/-0.000 χ^2/NDF : 19643023.7/5

402.891+/-0.000 χ^2/NDF : 1625792248571.0/23

402.737+/-0.000 χ^2/NDF : 3662020337325.1/25

yield_cav4bQ_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.630 $\pm$ 0.000 χ^2/NDF : 157923.0/6

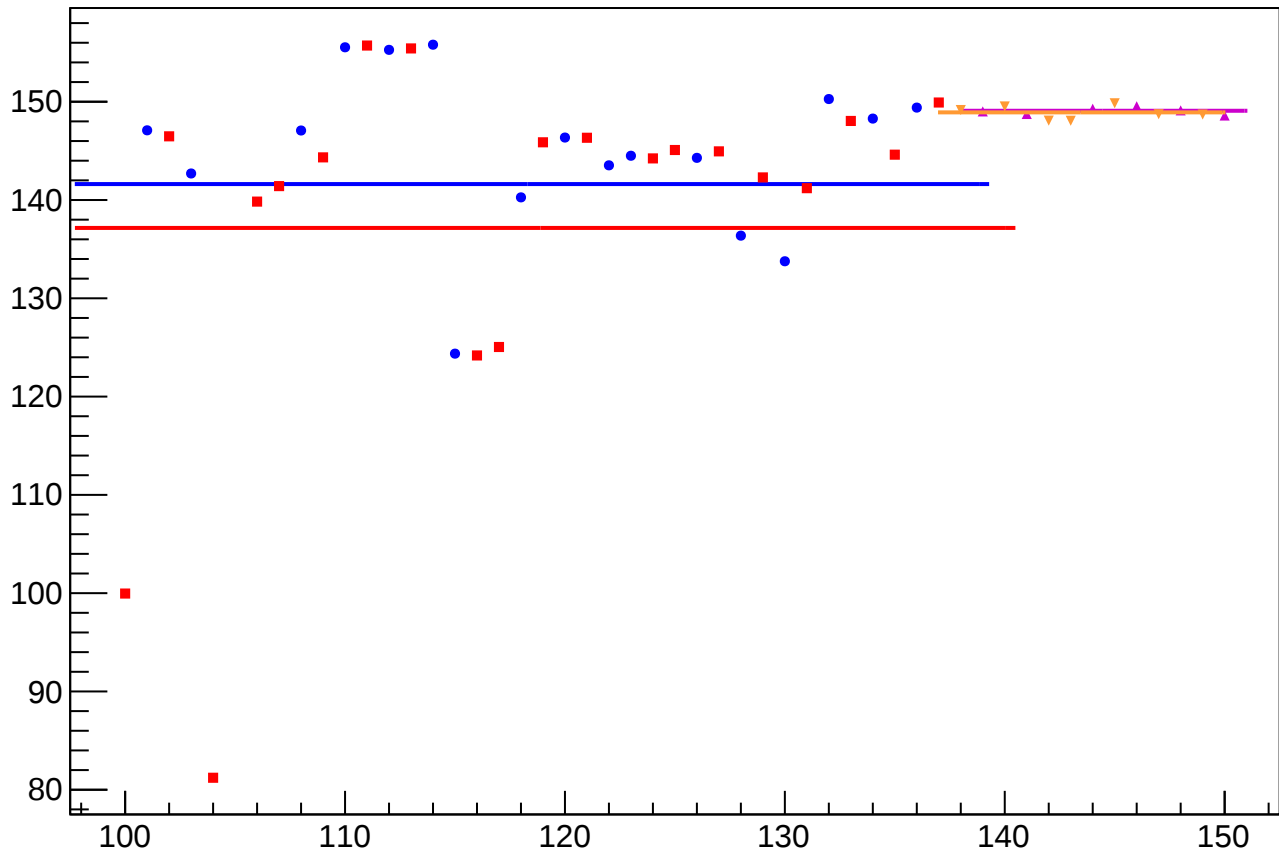
Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 9277290.2/19

Left In: 0.618 $\pm$ 0.000 χ^2/NDF : 129211.9/5

0.006 $\pm$ 0.000 χ^2/NDF : 15590255.6/23

0.006 $\pm$ 0.000 χ^2/NDF : 15533619.1/25

yield_cav4cQ_mean vs Slug



Right In: 141.622 ± 0.000 χ^2/NDF : 982037737.7/16

Left Out: 148.917 ± 0.000 χ^2/NDF : 6722882.3/6

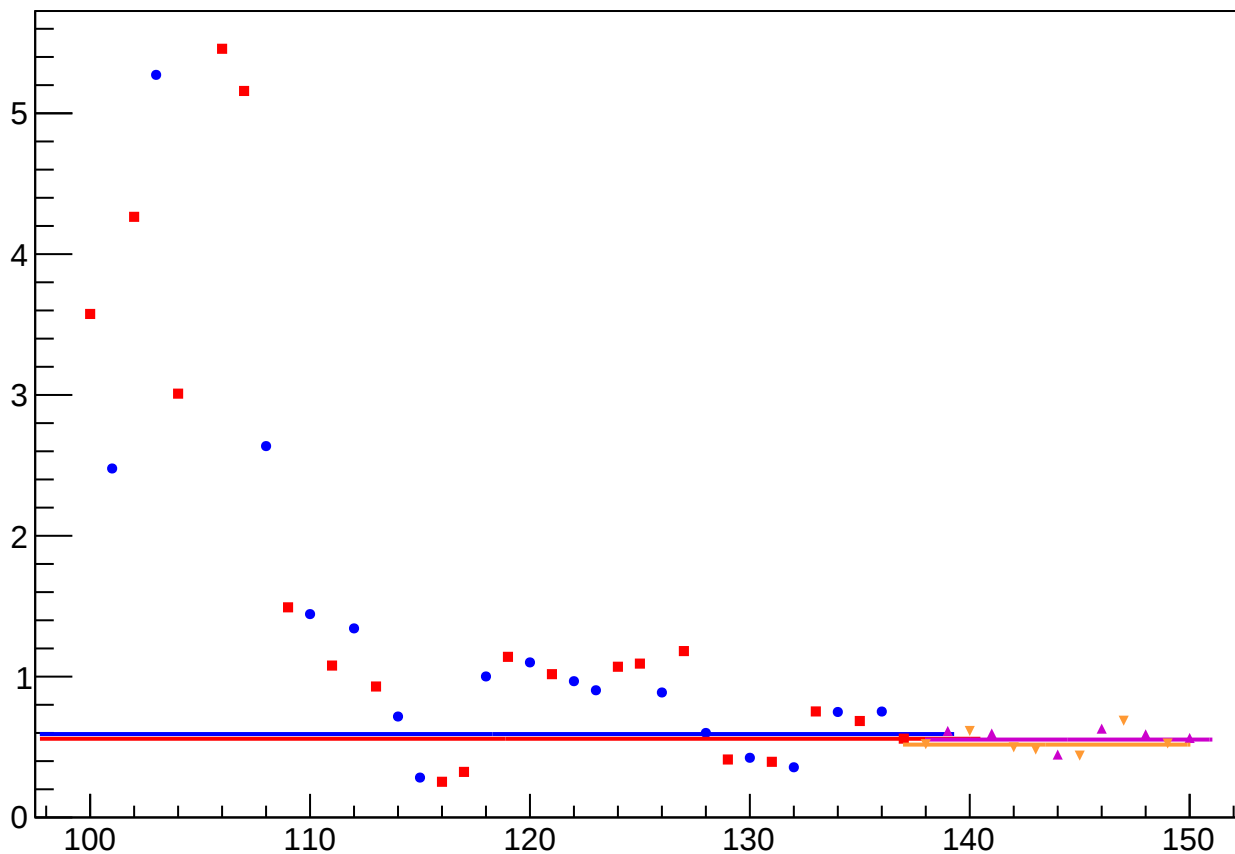
145.924 ± 0.000 χ^2/NDF : 1306310333.1/23

Right Out: 137.160 ± 0.000 χ^2/NDF : 1365742338.8/19

143.587 ± 0.000 χ^2/NDF : 2206147086.6/25

Left In: 149.080 ± 0.000 χ^2/NDF : 1344108.0/5

yield_cav4cQ_rms vs Slug



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.517 $\pm$ 0.000 χ^2 /NDF:162676.3/6

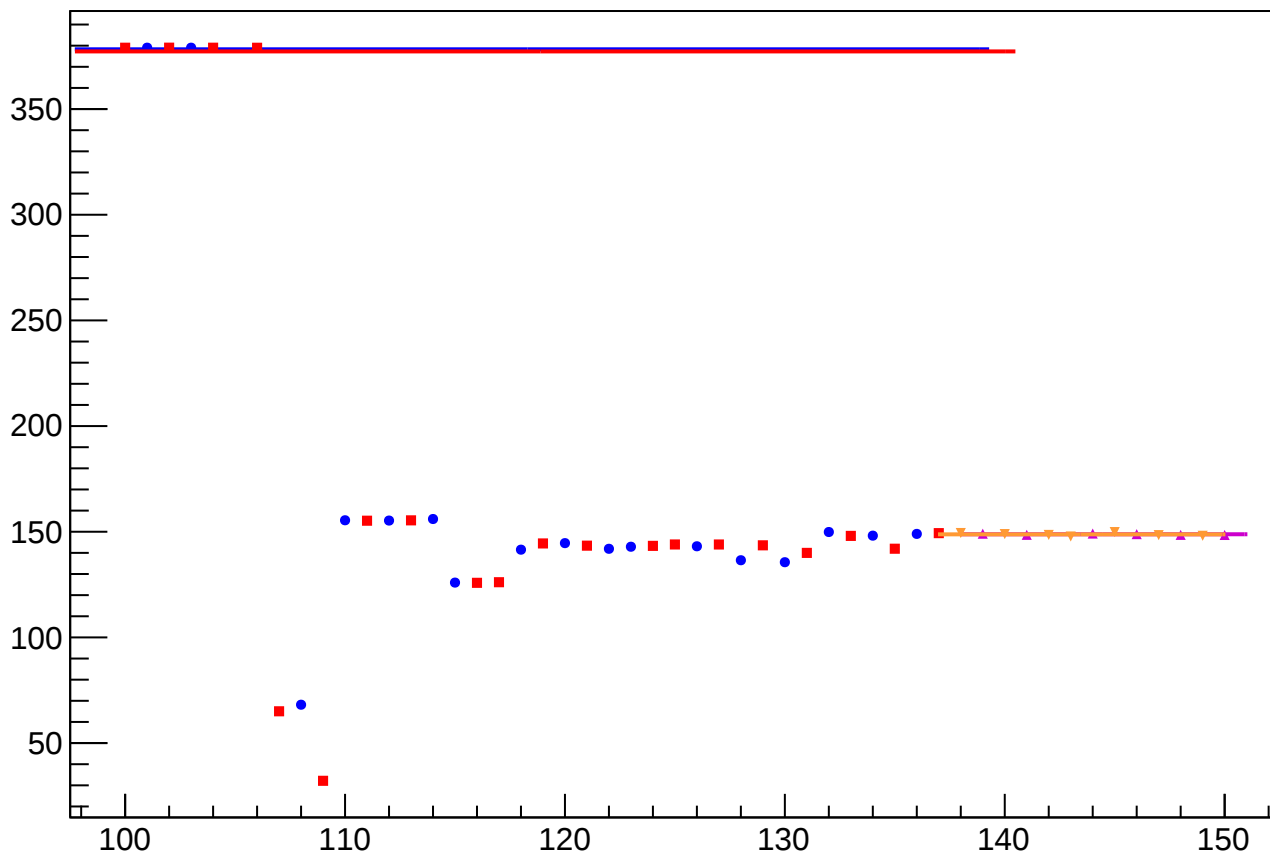
Right Out: 0.559 $\pm$ 0.000 χ^2 /NDF: 4719868.1/19

Left In: 0.553 $\pm$ 0.000 χ^2 /NDF:126771.7/5

0.548 $\pm$ 0.000 χ^2 /NDF: 3751416.7/23

0.556 $\pm$ 0.000 χ^2 /NDF: 4847034.3/25

yield_cav4dQ_mean vs Slug



Right In: 378.281+/-0.000 χ^2/NDF : 2512261599188.1/16

Left Out: 148.768+/-0.000 χ^2/NDF : 16211298.6/6

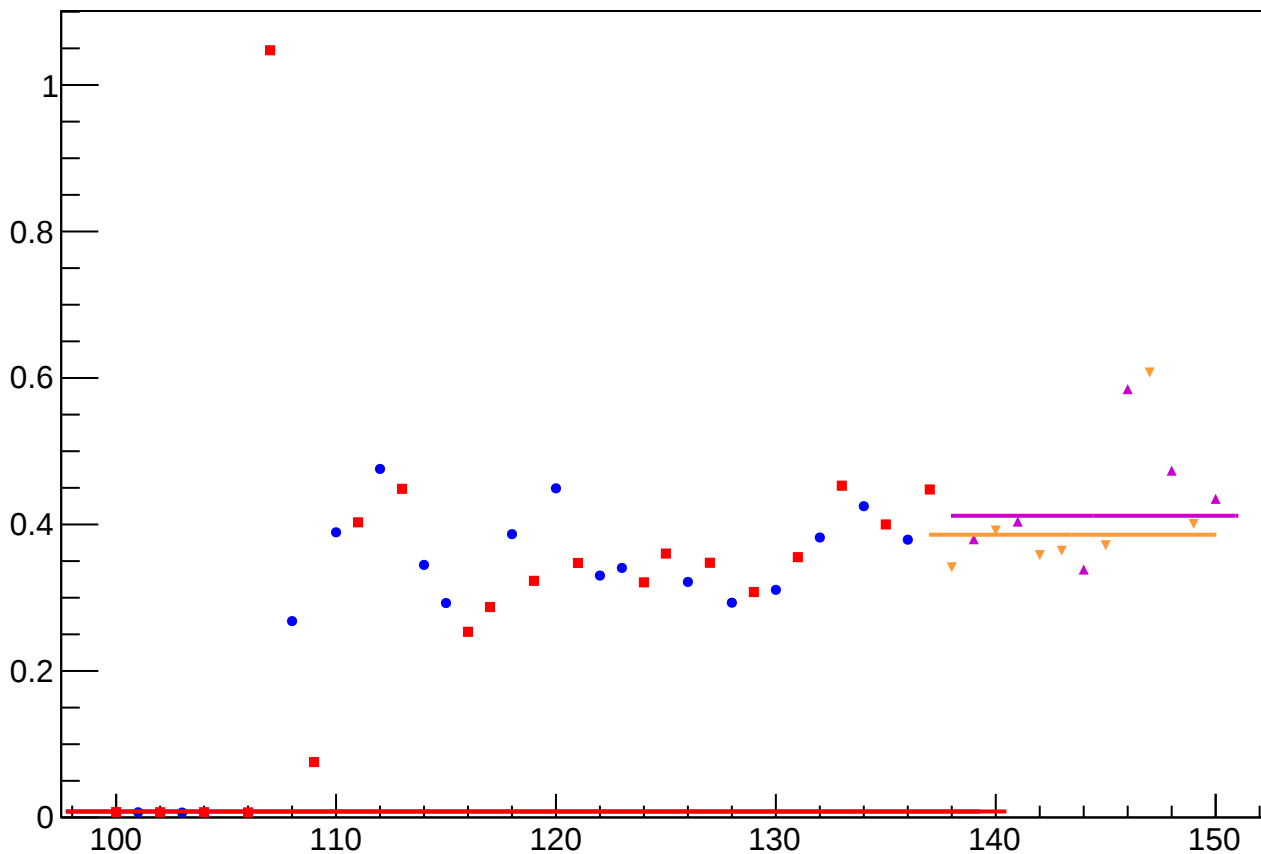
Right Out: 377.282+/-0.000 χ^2/NDF : 8306405788315.4/19

Left In: 148.810+/-0.000 χ^2/NDF : 2257769.6/5

377.741+/-0.000 χ^2/NDF : 4164380471380.9/23

376.875+/-0.000 χ^2/NDF : 9720196198459.6/25

yield_cav4dQ_rms vs Slug



Right In: 0.008 ± 0.000 χ^2/NDF : 9885759.8/16

Left Out: 0.386 ± 0.000 χ^2/NDF : 234582.4/6

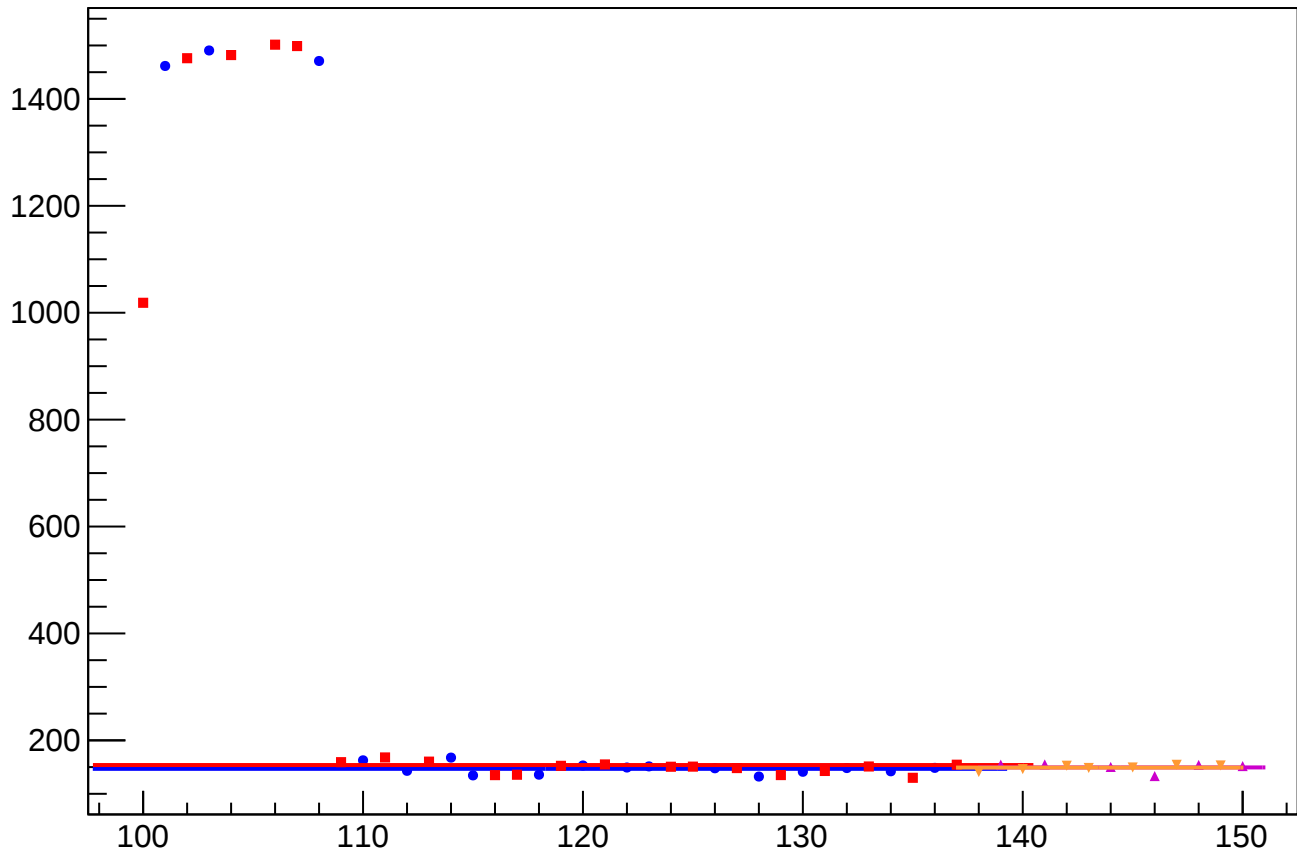
Right Out: 0.008 ± 0.000 χ^2/NDF : 9601959.4/19

Left In: 0.412 ± 0.000 χ^2/NDF : 259655.6/5

0.009 ± 0.000 χ^2/NDF : 19076762.6/23

0.009 ± 0.000 χ^2/NDF : 18691739.9/25

yield_bcm0l02_mean vs Slug



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 149.096+/-0.000 χ^2/NDF : 96353205.2/6

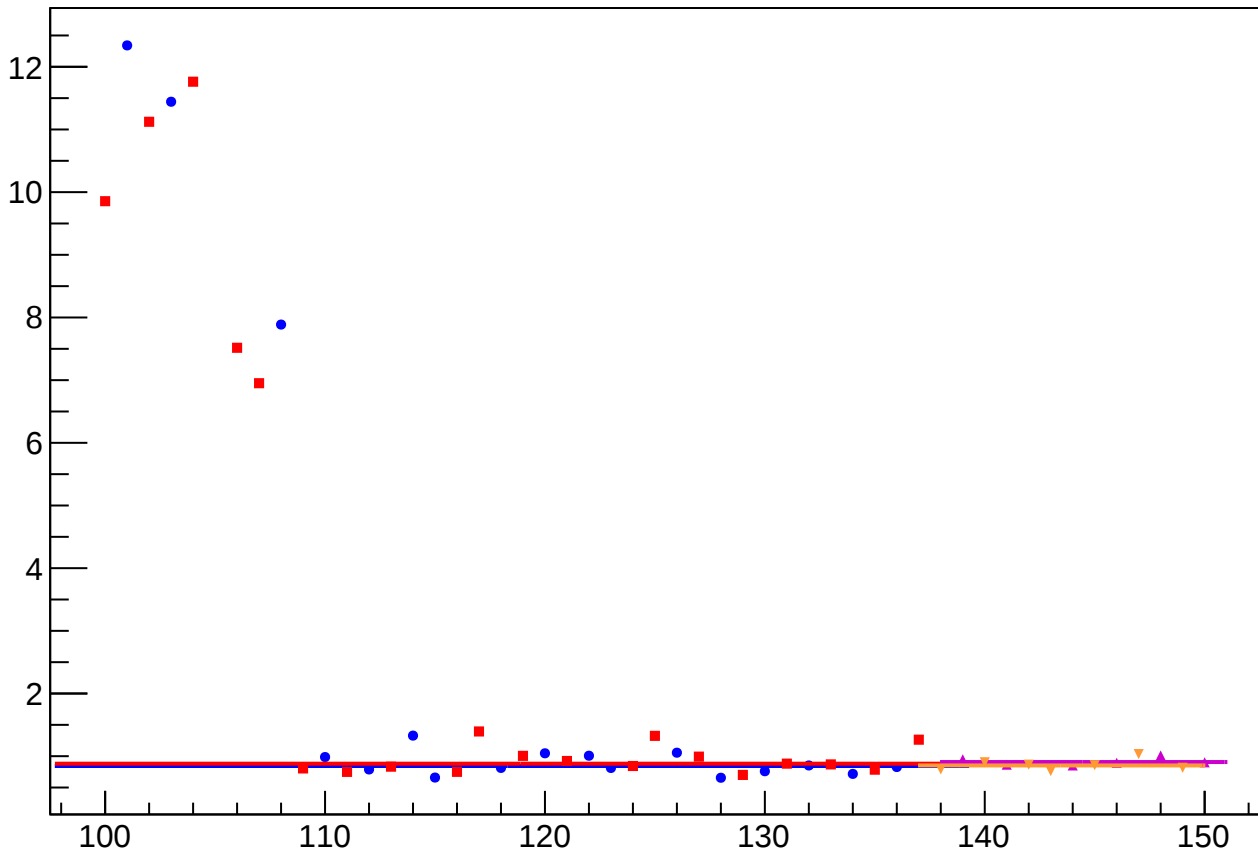
Right Out: 153.818+/-0.000 χ^2/NDF : 33744777744.4/19

Left In: 149.346+/-0.000 χ^2/NDF : 289026016.0/5

147.876+/-0.000 χ^2/NDF : 24461877434.9/23

151.710+/-0.000 χ^2/NDF : 34083856554.8/25

yield_bcm0l02_rms vs Slug



Right In: 0.844 ± 0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.852 ± 0.000 χ^2/NDF : 67543.7/6

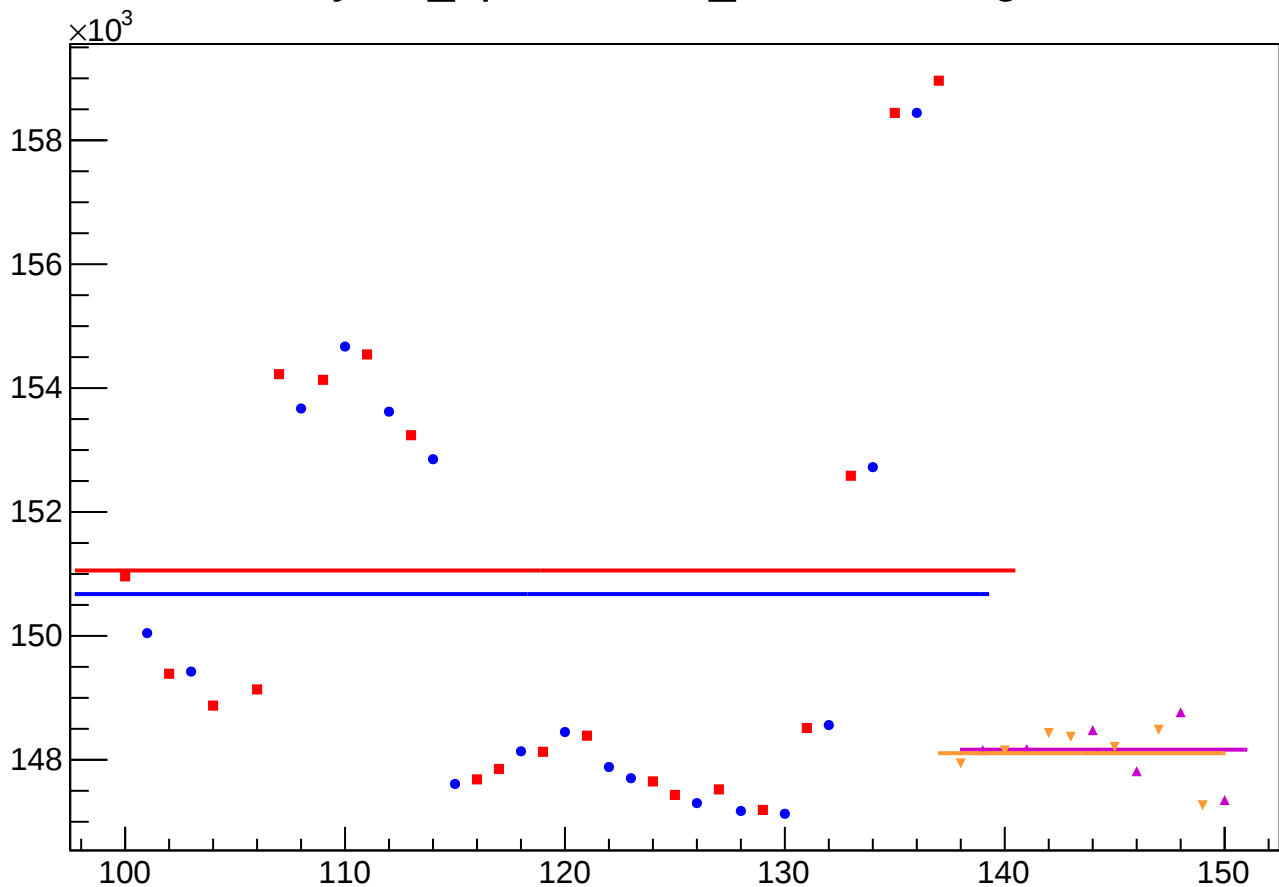
Right Out: 0.880 ± 0.000 χ^2/NDF : 2823230.1/19

Left In: 0.907 ± 0.000 χ^2/NDF : 26406.6/5

0.848 ± 0.000 χ^2/NDF : 2738409.6/23

0.893 ± 0.000 χ^2/NDF : 2853131.8/25

yield_bpm0i01WS_mean vs Slug



Right In: 150675.025 $\pm$ 0.063 χ^2 /NDF: 3309974859.4/16

Left Out: 148106.875 $\pm$ 0.085 χ^2 /NDF:19864548.6/6

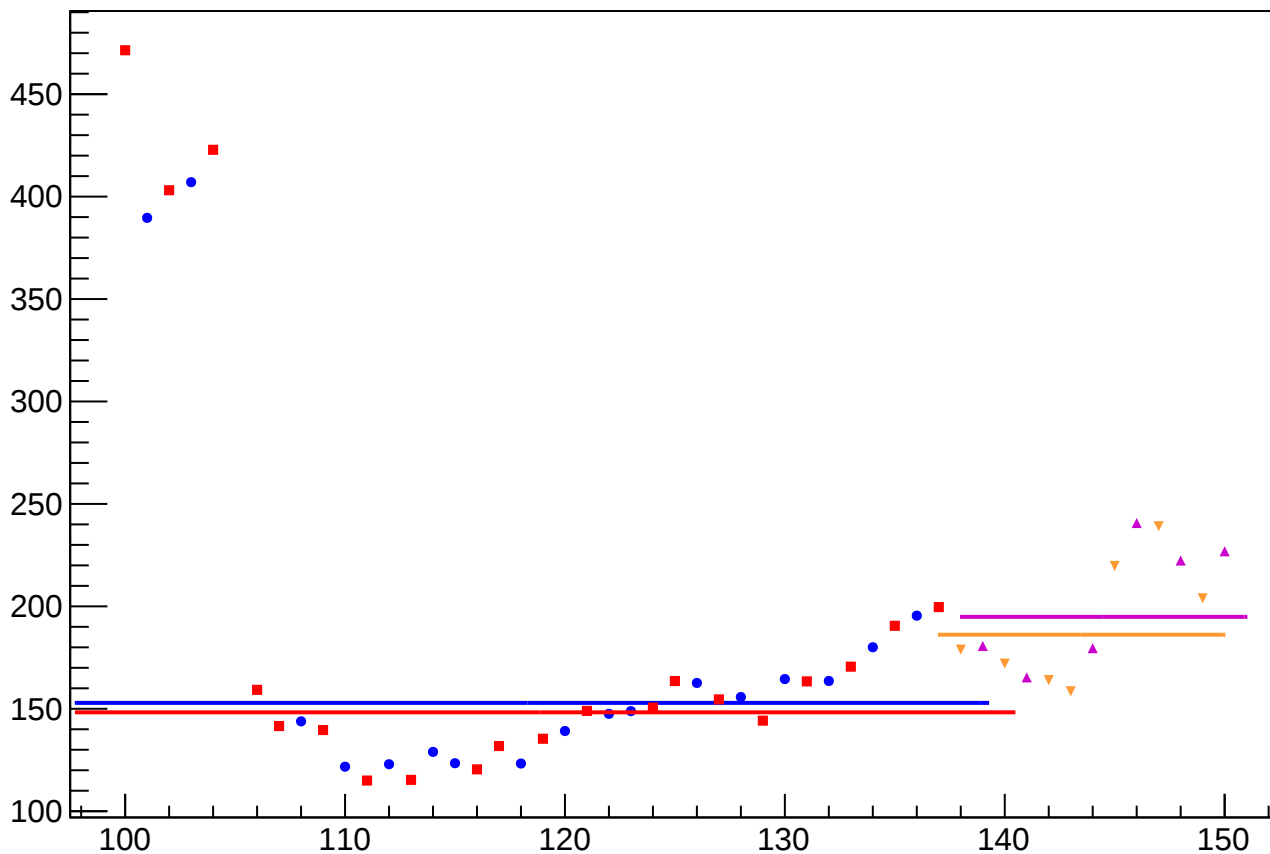
149764.127 $\pm$ 0.051 χ^2 /NDF: 3919958839.0/23

Right Out: 151056.044 $\pm$ 0.059 χ^2 /NDF: 3325519080.9/19

150174.717 $\pm$ 0.050 χ^2 /NDF: 4068202797.4/25

Left In: 148163.577 $\pm$ 0.090 χ^2 /NDF:21159775.3/5

yield_bpm0i01WS_rms vs Slug



Right In: 152.883+/-0.045 χ^2/NDF : 1154088.7/16

Left Out: 186.162+/-0.060 χ^2/NDF :192093.0/6

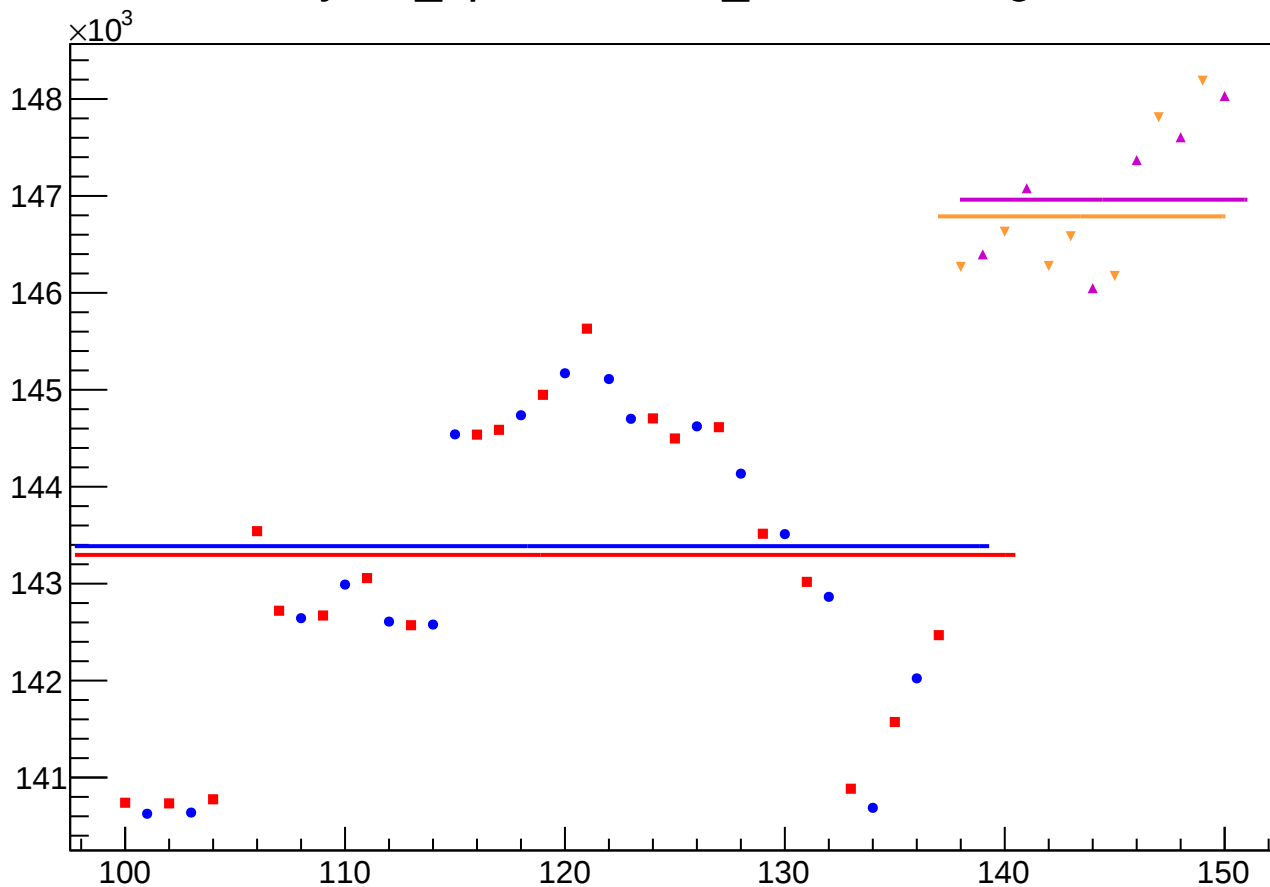
Right Out: 148.278+/-0.042 χ^2/NDF : 1192879.8/19

Left In: 194.862+/-0.063 χ^2/NDF :189730.4/5

164.687+/-0.036 χ^2/NDF : 1544359.5/23

162.472+/-0.035 χ^2/NDF : 1756906.5/25

yield_bpm0i01aWS_mean vs Slug



Right In: 143387.099 $\pm$ 0.053 χ^2 /NDF: 521299875.7/16

Left Out: 146789.160 $\pm$ 0.085 χ^2 /NDF: 67195659.8/6

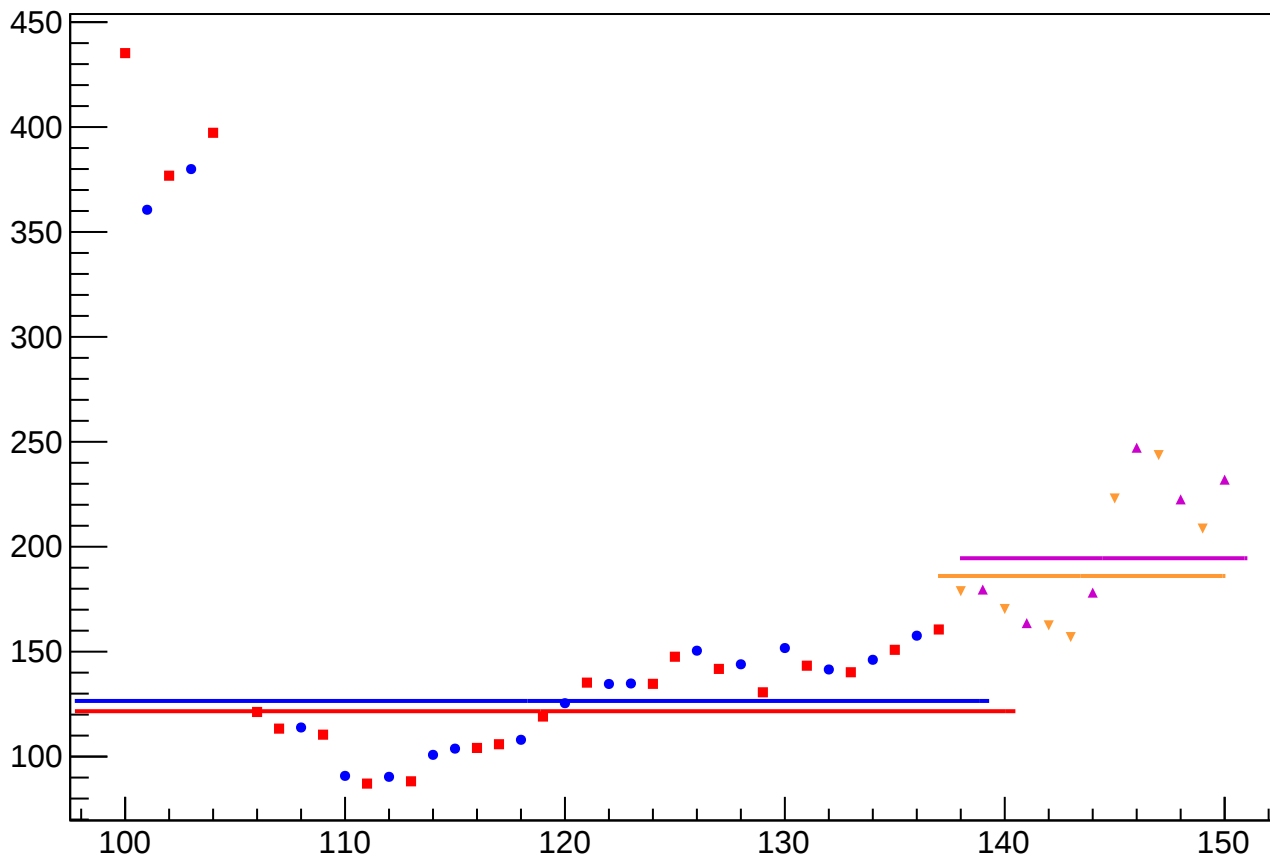
Right Out: 143296.790 $\pm$ 0.049 χ^2 /NDF: 615134284.0/19

Left In: 146961.472 $\pm$ 0.090 χ^2 /NDF: 56265629.2/5

144330.334 $\pm$ 0.045 χ^2 /NDF: 1742870167.2/23

144132.317 $\pm$ 0.043 χ^2 /NDF: 1953296428.8/25

yield_bpm0i01aWS_rms vs Slug



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 186.064 $\pm$ 0.060 χ^2 /NDF:225197.6/6

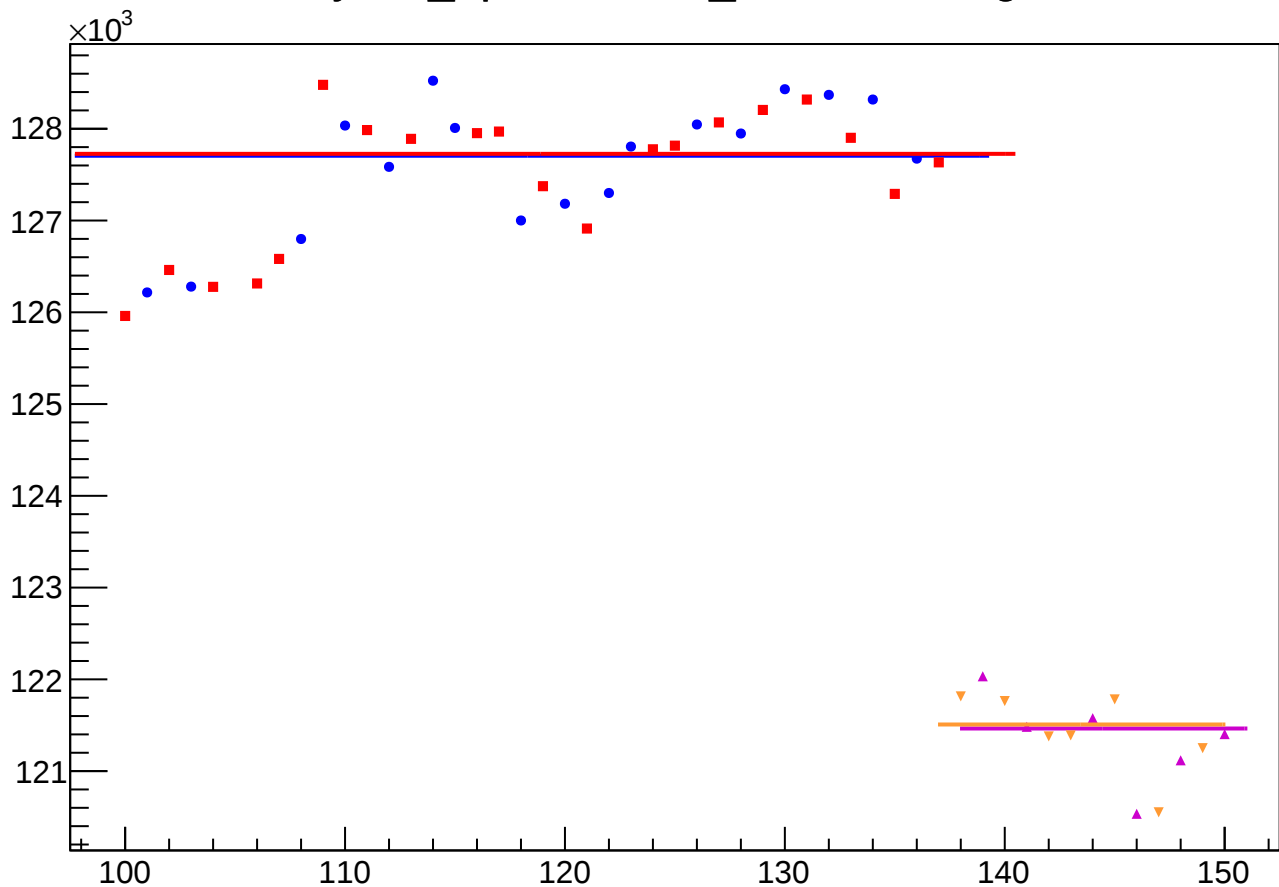
143.025 $\pm$ 0.032 χ^2 /NDF: 2374274.1/23

Right Out: 121.625 $\pm$ 0.035 χ^2 /NDF: 1465763.8/19

138.246 $\pm$ 0.030 χ^2 /NDF: 2704538.3/25

Left In: 194.523 $\pm$ 0.064 χ^2 /NDF:224318.7/5

yield_bpm0l01WS_mean vs Slug



Right In: 127706.194 ± 0.058 $\chi^2/\text{NDF}: 97860521.1/16$

Left Out: 121508.022 ± 0.073 $\chi^2/\text{NDF}: 20478388.3/6$

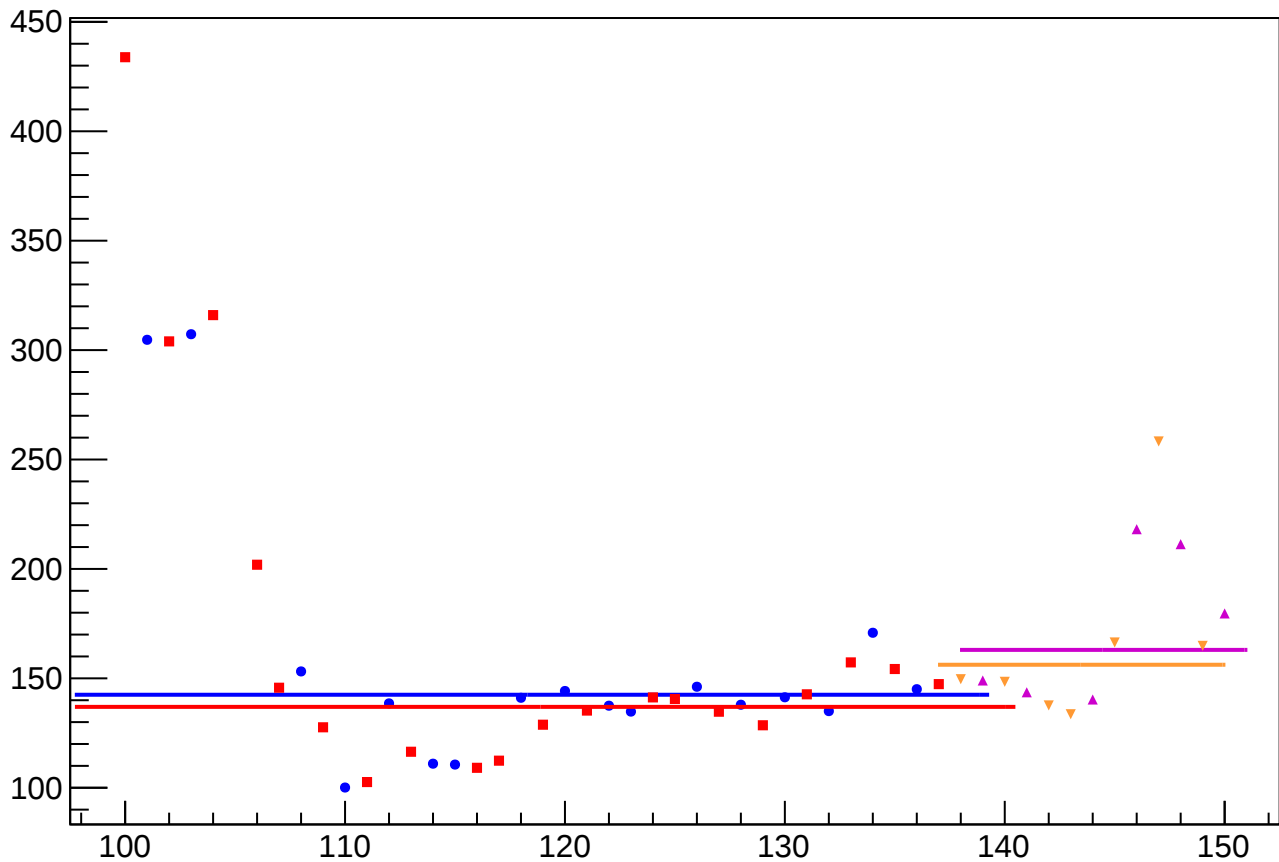
Right Out: 127726.708 ± 0.054 $\chi^2/\text{NDF}: 112816704.3/19$

Left In: 121464.259 ± 0.076 $\chi^2/\text{NDF}: 26578549.8/5$

125285.519 ± 0.045 $\chi^2/\text{NDF}: 4569331720.5/23$

125616.736 ± 0.044 $\chi^2/\text{NDF}: 4628534299.4/25$

yield_bpm0l01WS_rms vs Slug



Right In: 142.502 ± 0.041 χ^2/NDF : 836263.7/16

Left Out: 156.210 ± 0.051 χ^2/NDF : 308850.0/6

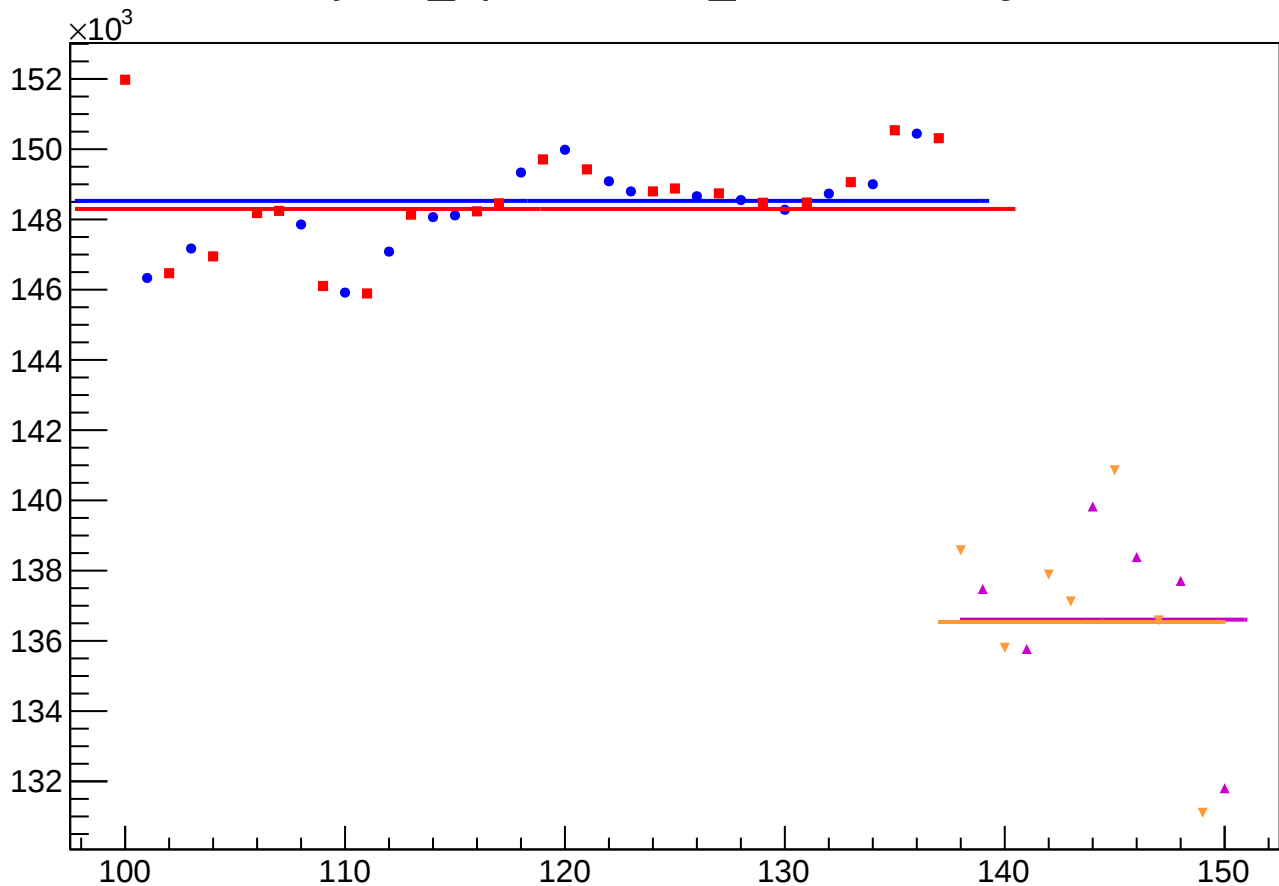
Right Out: 136.963 ± 0.038 χ^2/NDF : 961465.0/19

Left In: 163.003 ± 0.054 χ^2/NDF : 280295.1/5

147.856 ± 0.032 χ^2/NDF : 1188661.5/23

145.737 ± 0.031 χ^2/NDF : 1396992.5/25

yield_bpm0l02WS_mean vs Slug



Right In: 148528.851 ± 0.082 $\chi^2/\text{NDF}: 209986594.2/16$

Left Out: 136537.073 ± 0.108 $\chi^2/\text{NDF}: 710492766.3/6$

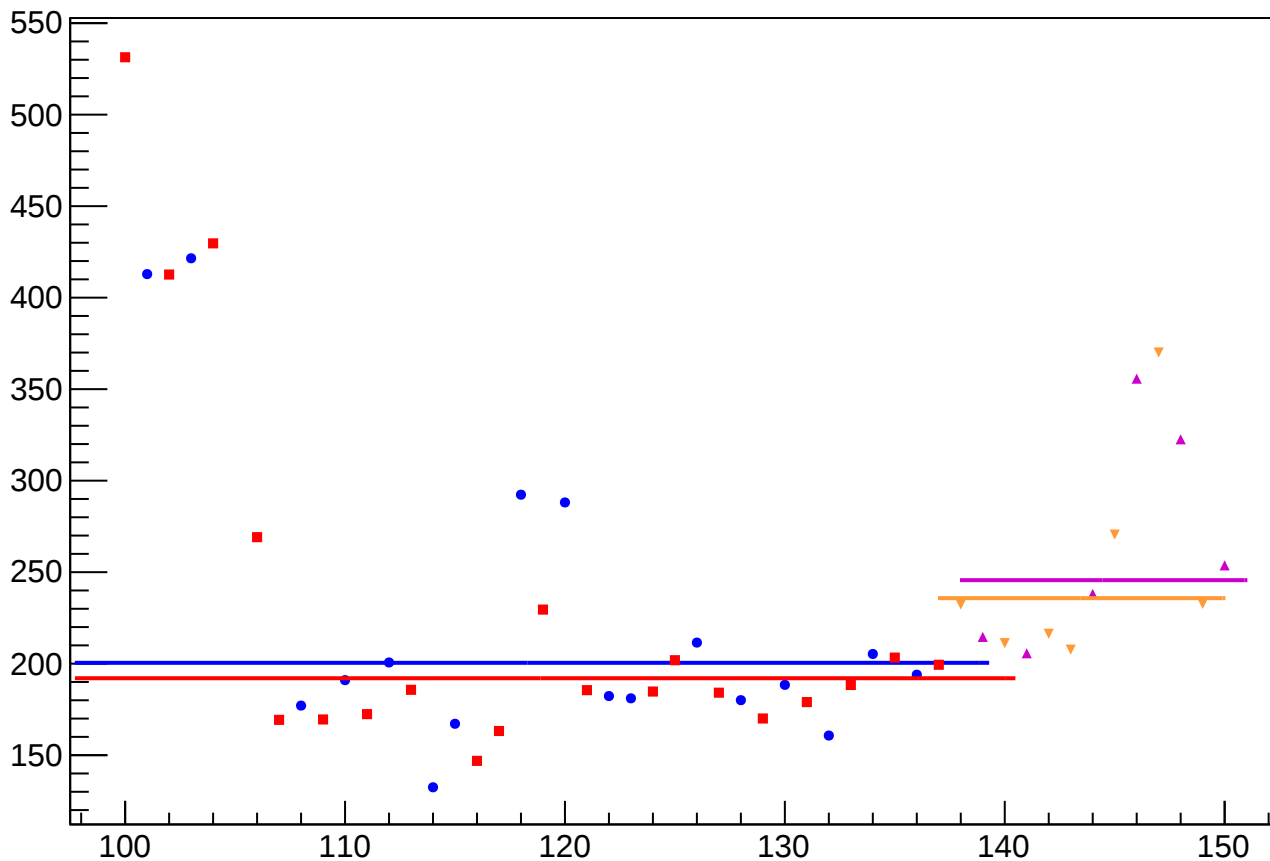
Right Out: 148298.586 ± 0.076 $\chi^2/\text{NDF}: 293284830.9/19$

Left In: 136604.790 ± 0.115 $\chi^2/\text{NDF}: 512365650.7/5$

144164.486 ± 0.065 $\chi^2/\text{NDF}: 8690601738.7/23$

144722.708 ± 0.063 $\chi^2/\text{NDF}: 8033086848.5/25$

yield_bpm0l02WS_rms vs Slug



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 235.798+/-0.077 χ^2/NDF : 280212.5/6

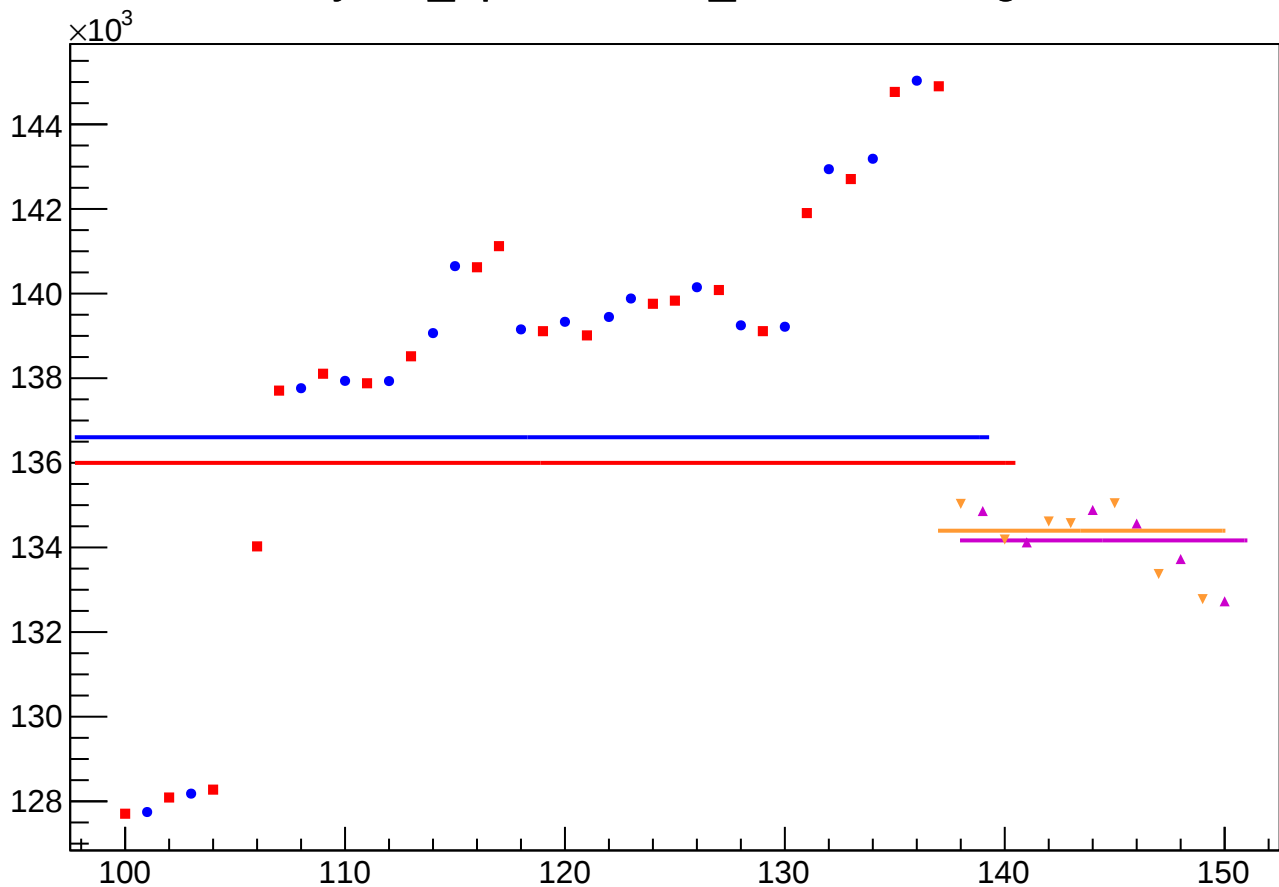
Right Out: 192.040+/-0.054 χ^2/NDF : 847133.0/19

Left In: 245.632+/-0.081 χ^2/NDF : 331706.7/5

213.329+/-0.046 χ^2/NDF : 1351615.9/23

208.428+/-0.045 χ^2/NDF : 1482432.6/25

yield_bpm0l03WS_mean vs Slug



Right In: 136604.632 $\pm$ 0.171 χ^2 /NDF: 1494354557.3/16

Left Out: 134395.880 $\pm$ 0.252 χ^2 /NDF: 8807857.4/6

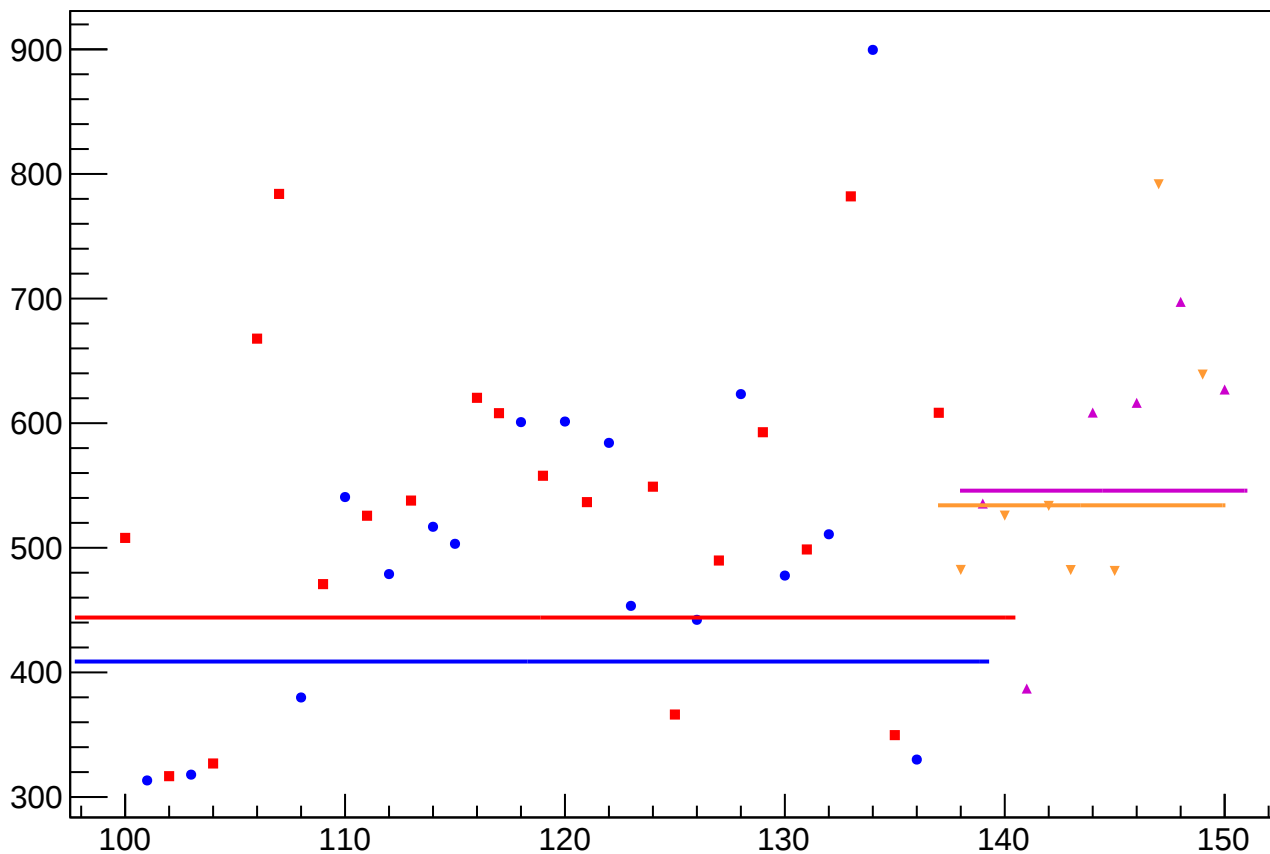
Right Out: 135998.851 $\pm$ 0.182 χ^2 /NDF: 1084895879.4/19

Left In: 134166.041 $\pm$ 0.273 χ^2 /NDF: 6558254.7/5

135905.381 $\pm$ 0.142 χ^2 /NDF: 1555711156.8/23

135434.380 $\pm$ 0.152 χ^2 /NDF: 1122550924.5/25

yield_bpm0l03WS_rms vs Slug



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 534.087+/-0.178 χ^2/NDF :236326.9/6

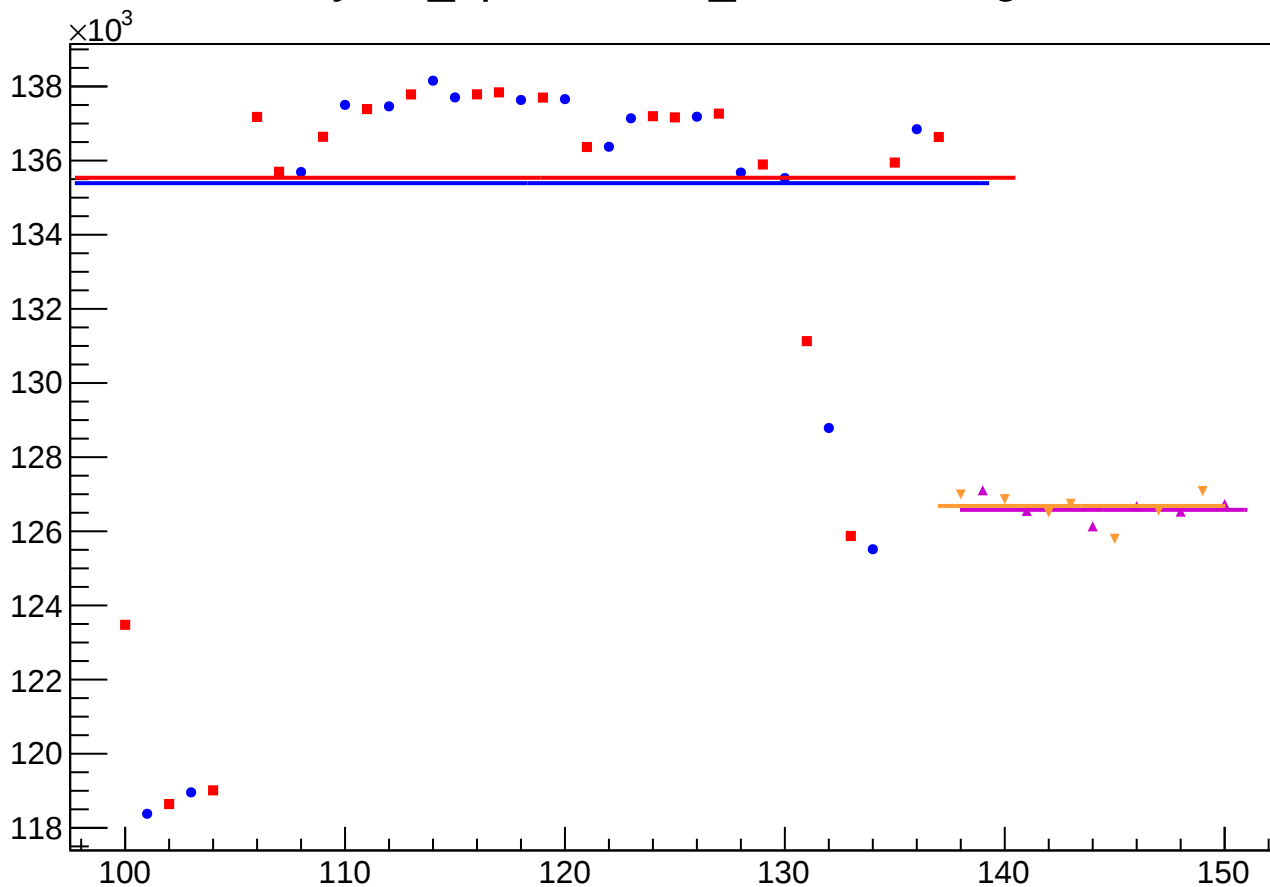
Right Out: 444.034+/-0.129 χ^2/NDF : 922545.8/19

Left In: 545.847+/-0.193 χ^2/NDF :333780.3/5

448.415+/-0.100 χ^2/NDF : 1398121.4/23

475.390+/-0.107 χ^2/NDF : 1448244.1/25

yield_bpm0l04WS_mean vs Slug



Right In: 135391.458 $\pm$ 0.068 χ^2 /NDF: 4580024611.0/16

Left Out: 126684.280 $\pm$ 0.079 χ^2 /NDF: 25751669.7/6

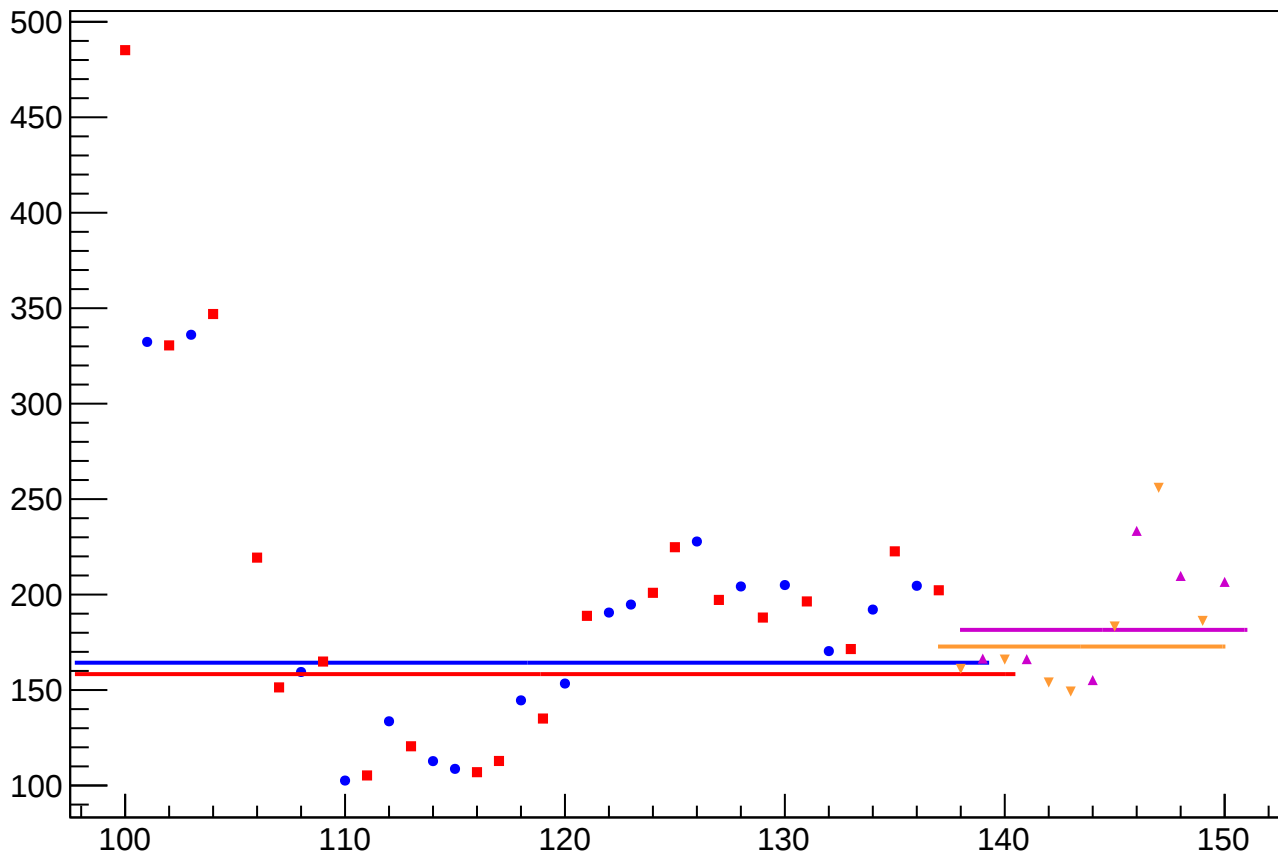
Right Out: 135537.290 $\pm$ 0.064 χ^2 /NDF: 4748951957.4/19

Left In: 126579.069 $\pm$ 0.084 χ^2 /NDF: 14427595.0/5

131685.742 $\pm$ 0.052 χ^2 /NDF: 11529961251.8/2

132248.804 $\pm$ 0.051 χ^2 /NDF: 11968515900.4/2

yield_bpm0l04WS_rms vs Slug



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 172.784+/-0.056 χ^2/NDF : 232083.8/6

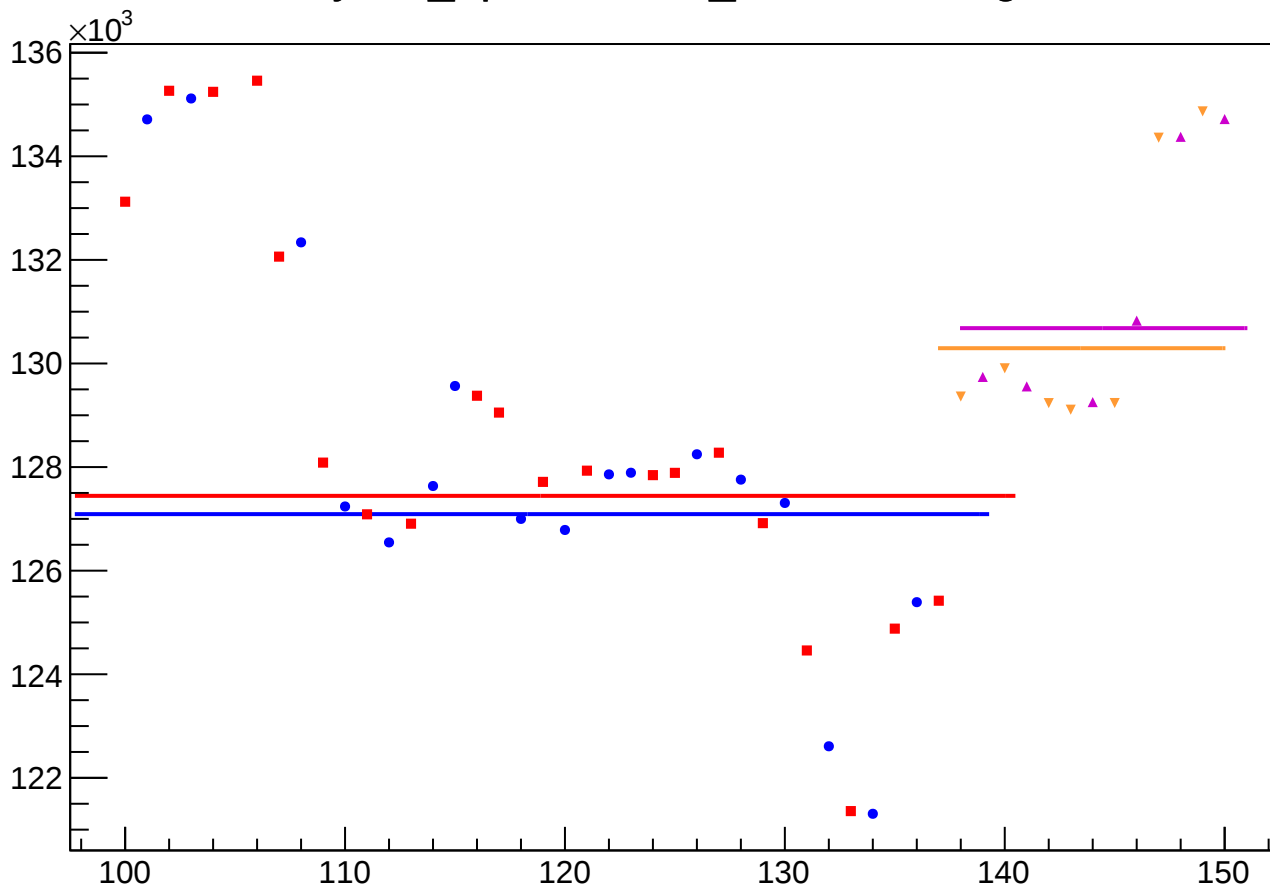
167.917+/-0.037 χ^2/NDF : 1475682.7/23

Right Out: 158.336+/-0.045 χ^2/NDF : 1398323.7/19

166.845+/-0.036 χ^2/NDF : 1699610.5/25

Left In: 181.515+/-0.059 χ^2/NDF : 204815.3/5

yield_bpm0l05WS_mean vs Slug



Right In: 127091.500+/-0.066 χ^2/NDF : 1717208780.6/16

Left Out: 130295.038+/-0.080 χ^2/NDF : 637013911.9/6

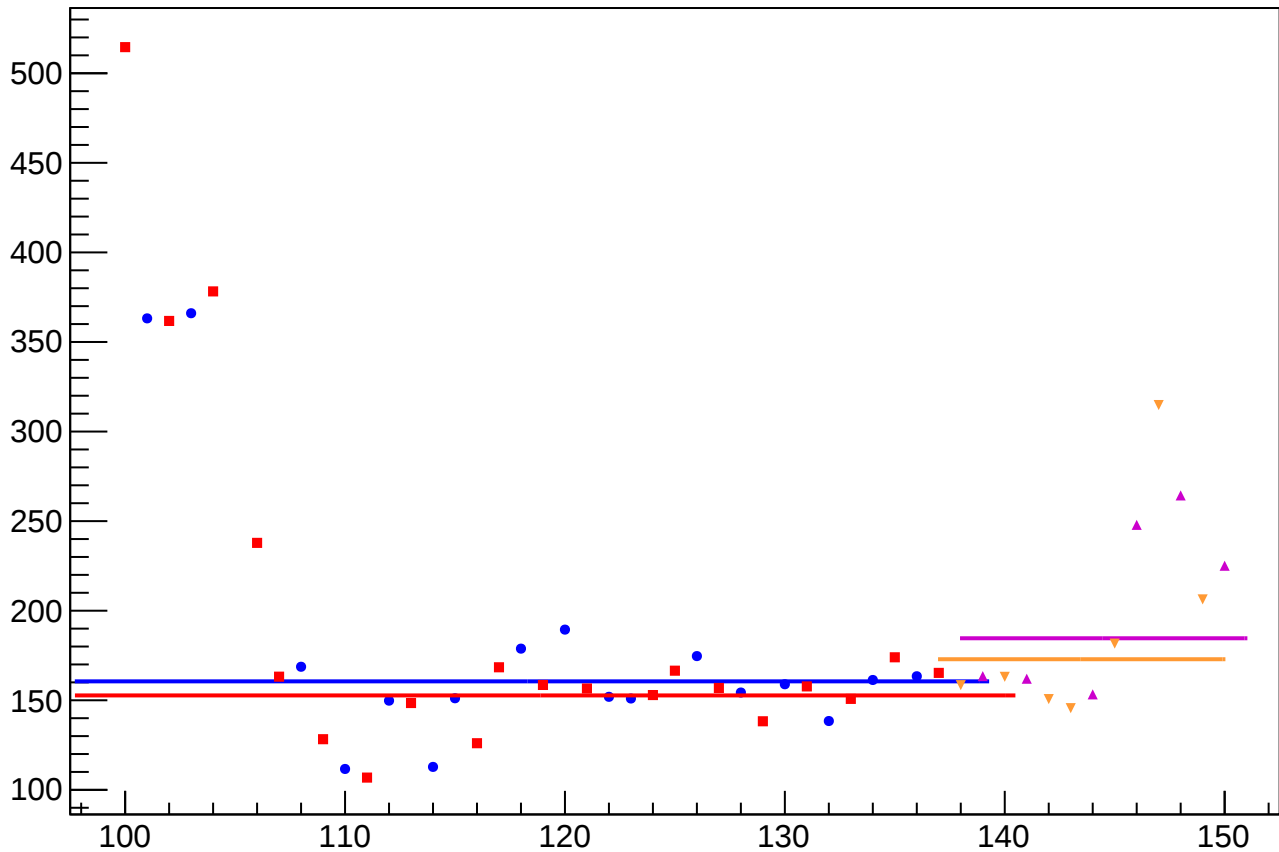
Right Out: 127444.472+/-0.061 χ^2/NDF : 2082646787.7/19

Left In: 130682.199+/-0.087 χ^2/NDF : 561656593.4/5

128388.184+/-0.051 χ^2/NDF : 3299133708.7/23

128528.666+/-0.050 χ^2/NDF : 3575884517.2/25

yield_bpm0l05WS_rms vs Slug



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 172.911 $\pm$ 0.057 χ^2 /NDF: 440105.1/6

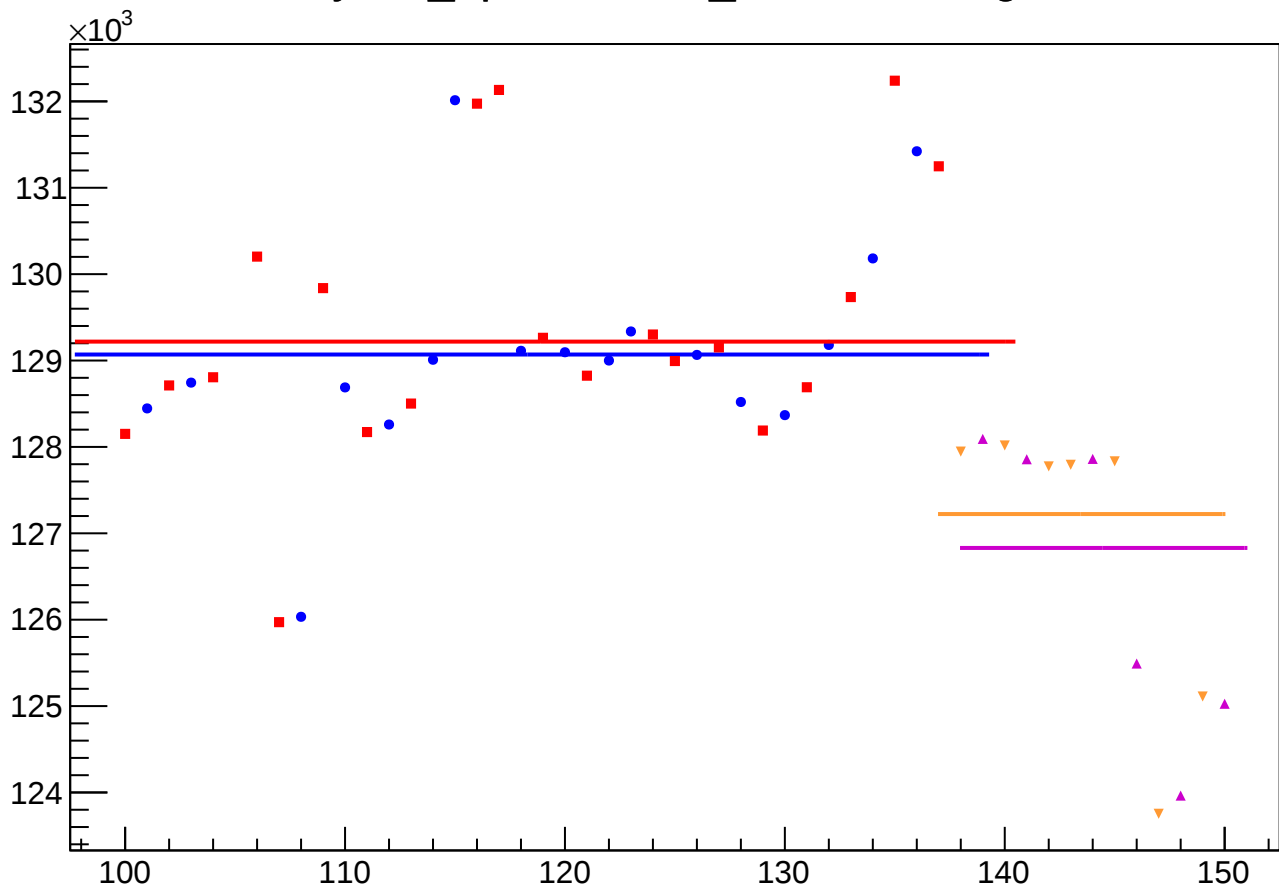
165.562 $\pm$ 0.036 χ^2 /NDF: 1410925.6/23

Right Out: 152.711 $\pm$ 0.043 χ^2 /NDF: 1087186.3/19

163.393 $\pm$ 0.035 χ^2 /NDF: 1692284.0/25

Left In: 184.612 $\pm$ 0.061 χ^2 /NDF: 424211.7/5

yield_bpm0l06WS_mean vs Slug



Right In: 129069.668 $\pm$ 0.060 χ^2 /NDF: 476692316.5/16

Left Out: 127222.928 $\pm$ 0.076 χ^2 /NDF: 305827711.9/6

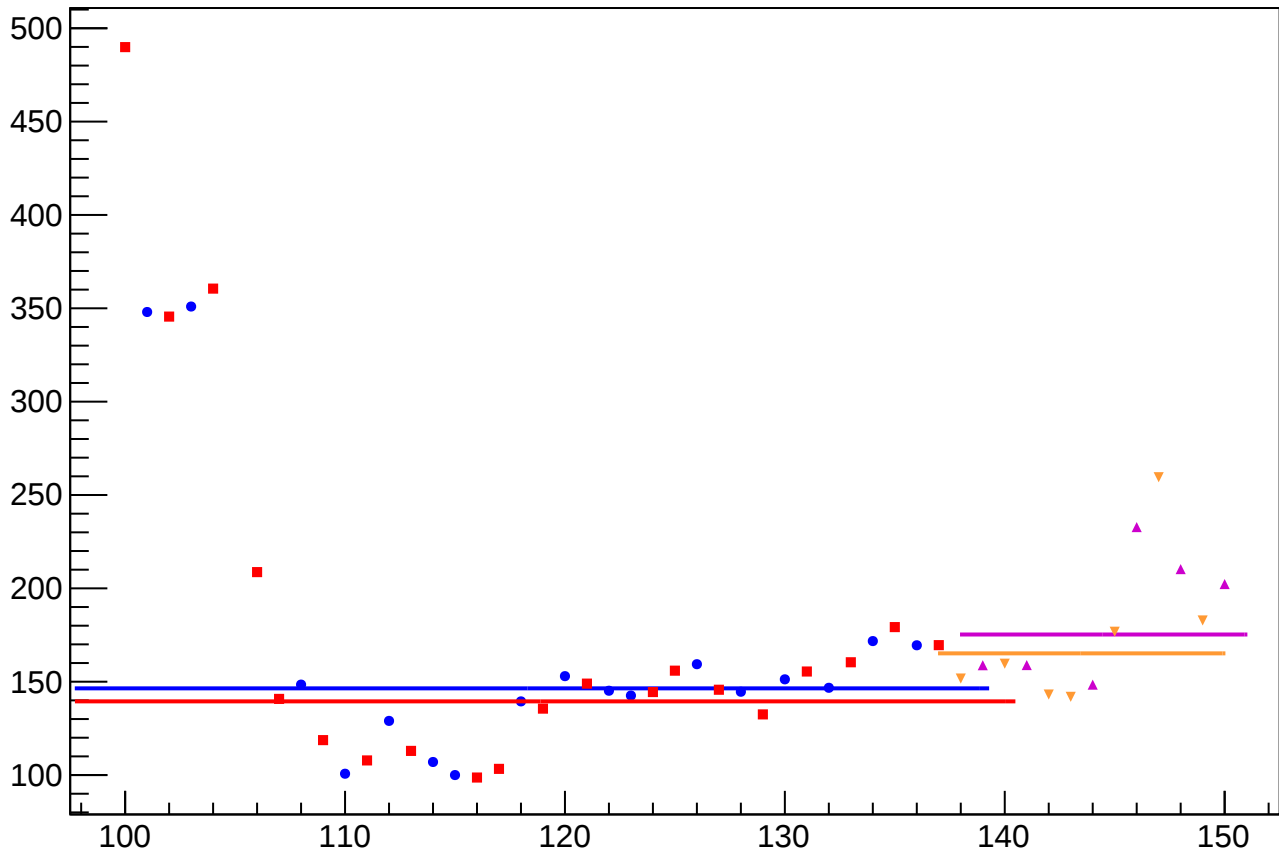
Right Out: 129219.072 $\pm$ 0.056 χ^2 /NDF: 660468184.1/19

Left In: 126830.608 $\pm$ 0.081 χ^2 /NDF: 356548045.9/5

128358.626 $\pm$ 0.047 χ^2 /NDF: 1145214047.3/23

128455.589 $\pm$ 0.046 χ^2 /NDF: 1604009275.0/25

yield_bpm0l06WS_rms vs Slug



Right In: 146.437+/-0.043 χ^2/NDF : 1064791.0/16

Left Out: 165.178+/-0.054 χ^2/NDF : 294193.0/6

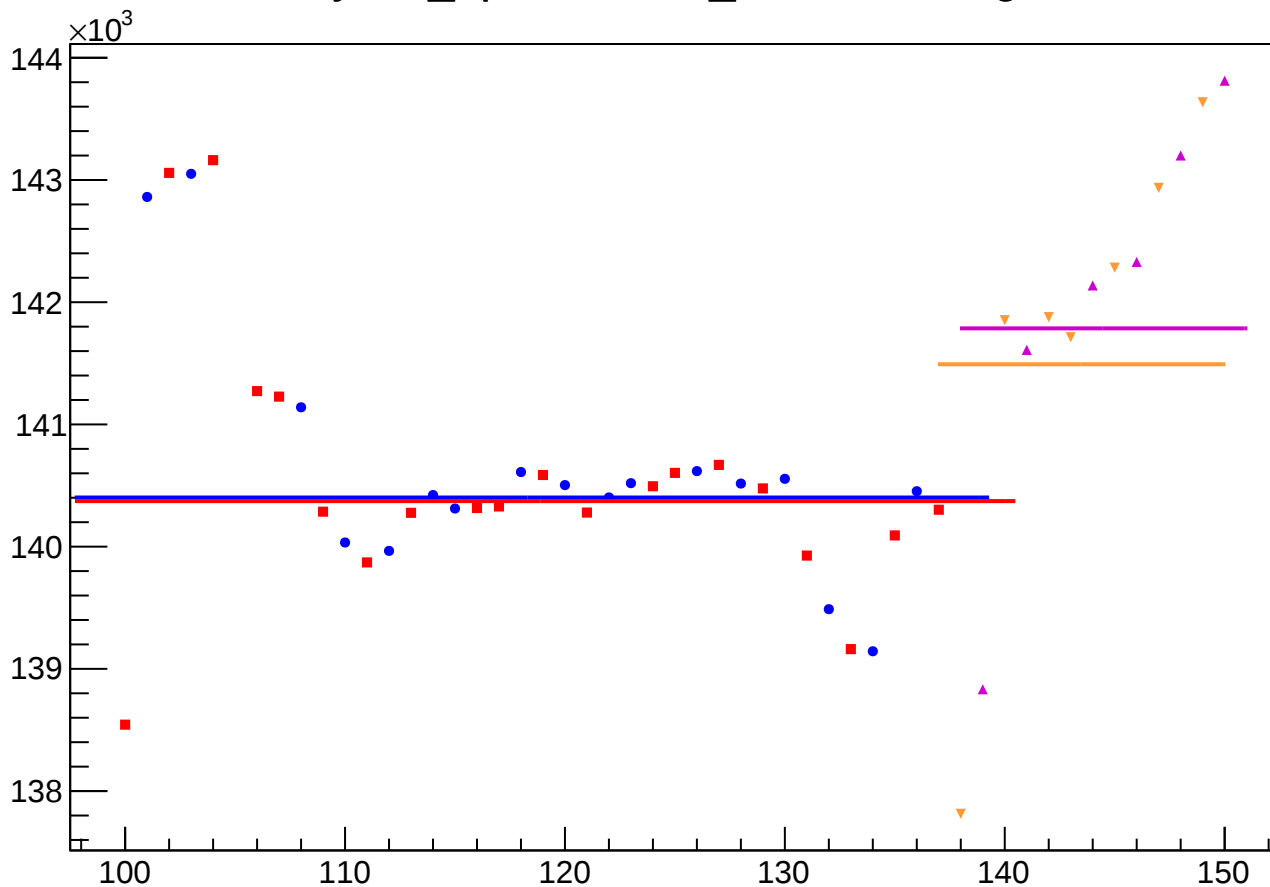
Right Out: 139.468+/-0.039 χ^2/NDF : 1214310.8/19

Left In: 175.280+/-0.057 χ^2/NDF : 257184.9/5

153.653+/-0.033 χ^2/NDF : 1433686.3/23

150.915+/-0.033 χ^2/NDF : 1735432.9/25

yield_bpm0l07WS_mean vs Slug



Right In: 140402.010 $\pm$ 0.064 χ^2 /NDF: 88071774.7/16

Left Out: 141492.121 $\pm$ 0.089 χ^2 /NDF: 427558205.4/6

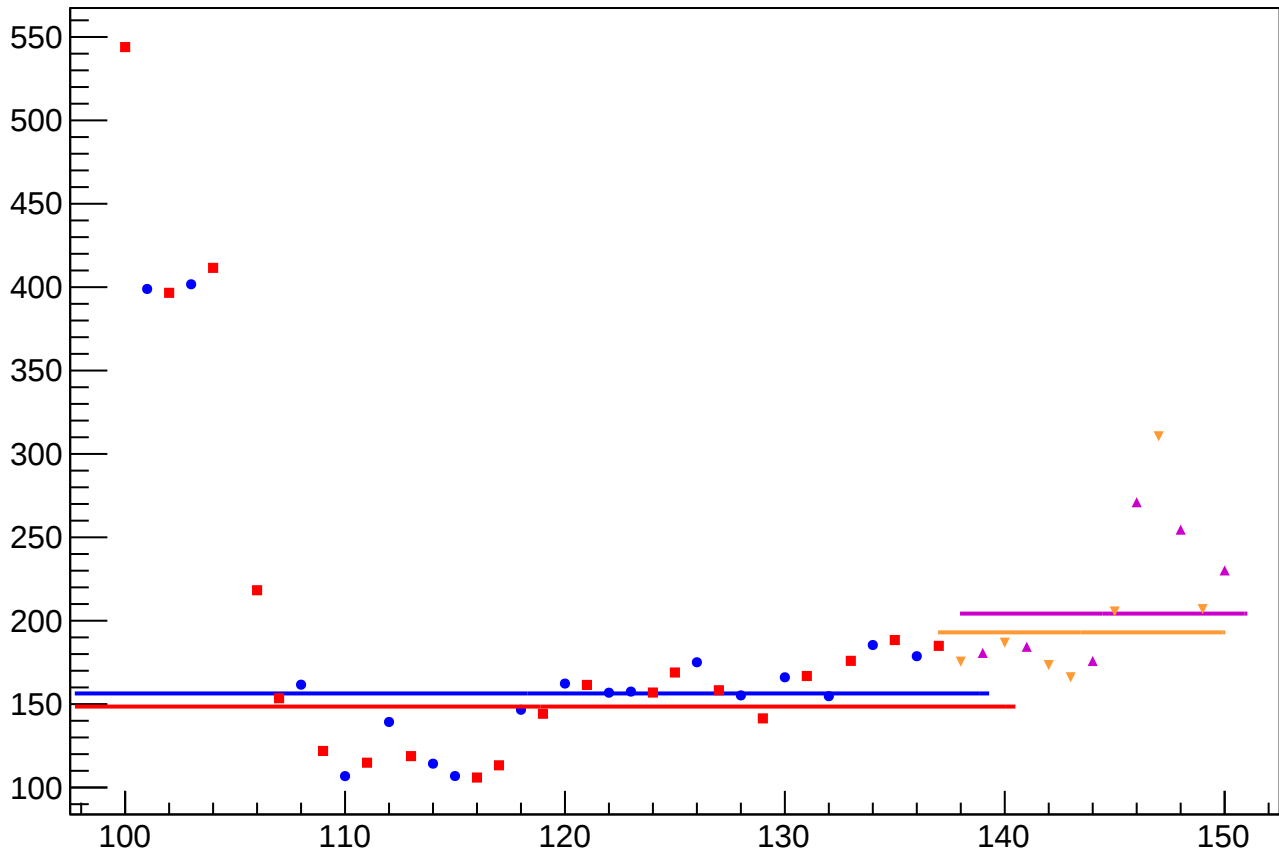
Right Out: 140372.636 $\pm$ 0.059 χ^2 /NDF: 99861038.9/19

Left In: 141785.879 $\pm$ 0.095 χ^2 /NDF: 277223302.7/5

140774.544 $\pm$ 0.052 χ^2 /NDF: 613707386.8/23

140770.655 $\pm$ 0.050 χ^2 /NDF: 536009817.6/25

yield_bpm0l07WS_rms vs Slug



Right In: 156.394+/-0.046 χ^2/NDF : 1154804.2/16

Left Out: 193.017+/-0.063 χ^2/NDF : 295676.0/6

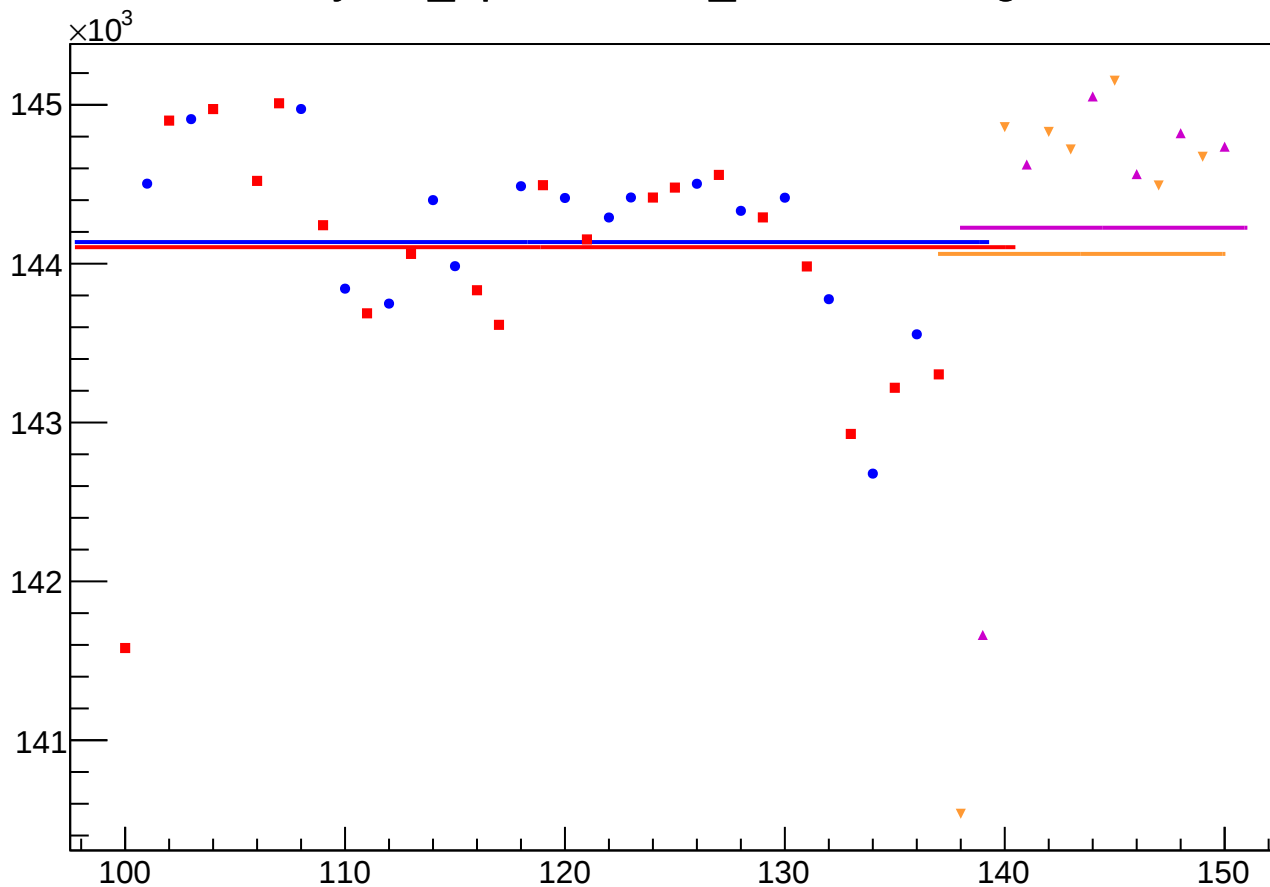
168.909+/-0.037 χ^2/NDF : 1671883.3/23

Right Out: 148.524+/-0.042 χ^2/NDF : 1316113.9/19

164.224+/-0.036 χ^2/NDF : 2074419.6/25

Left In: 204.269+/-0.067 χ^2/NDF : 263761.9/5

yield_bpm0l08WS_mean vs Slug



Right In: 144136.118 ± 0.067 $\chi^2/\text{NDF}: 47069480.3/16$

Left Out: 144061.616 ± 0.088 $\chi^2/\text{NDF}: 344933897.5/6$

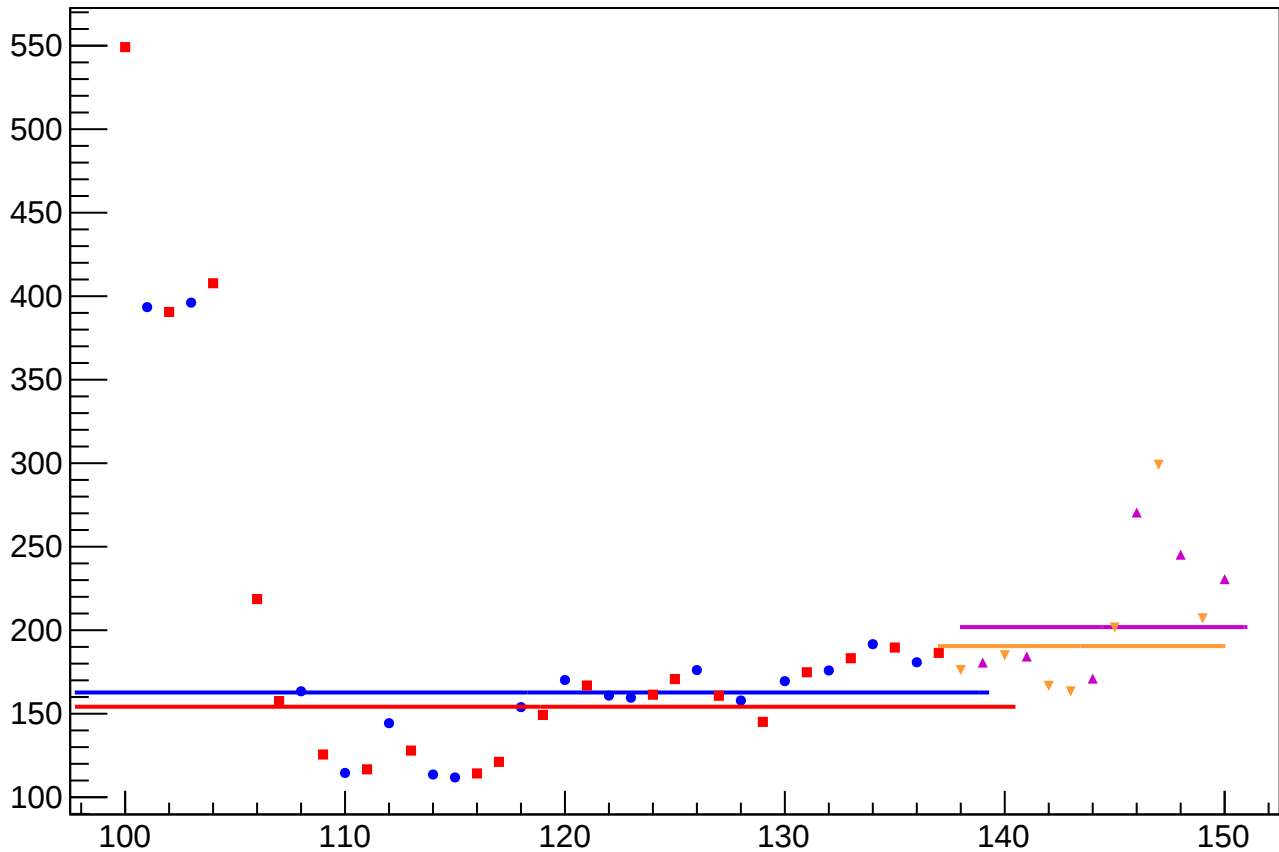
Right Out: 144103.887 ± 0.062 $\chi^2/\text{NDF}: 65973087.5/19$

Left In: 144226.327 ± 0.094 $\chi^2/\text{NDF}: 169309201.8/5$

144108.884 ± 0.053 $\chi^2/\text{NDF}: 392458486.9/23$

144140.661 ± 0.051 $\chi^2/\text{NDF}: 236471932.6/25$

yield_bpm0l08WS_rms vs Slug



Right In: 162.714+/-0.047 χ^2/NDF : 1066482.0/16

Left Out: 190.483+/-0.062 χ^2/NDF : 282921.7/6

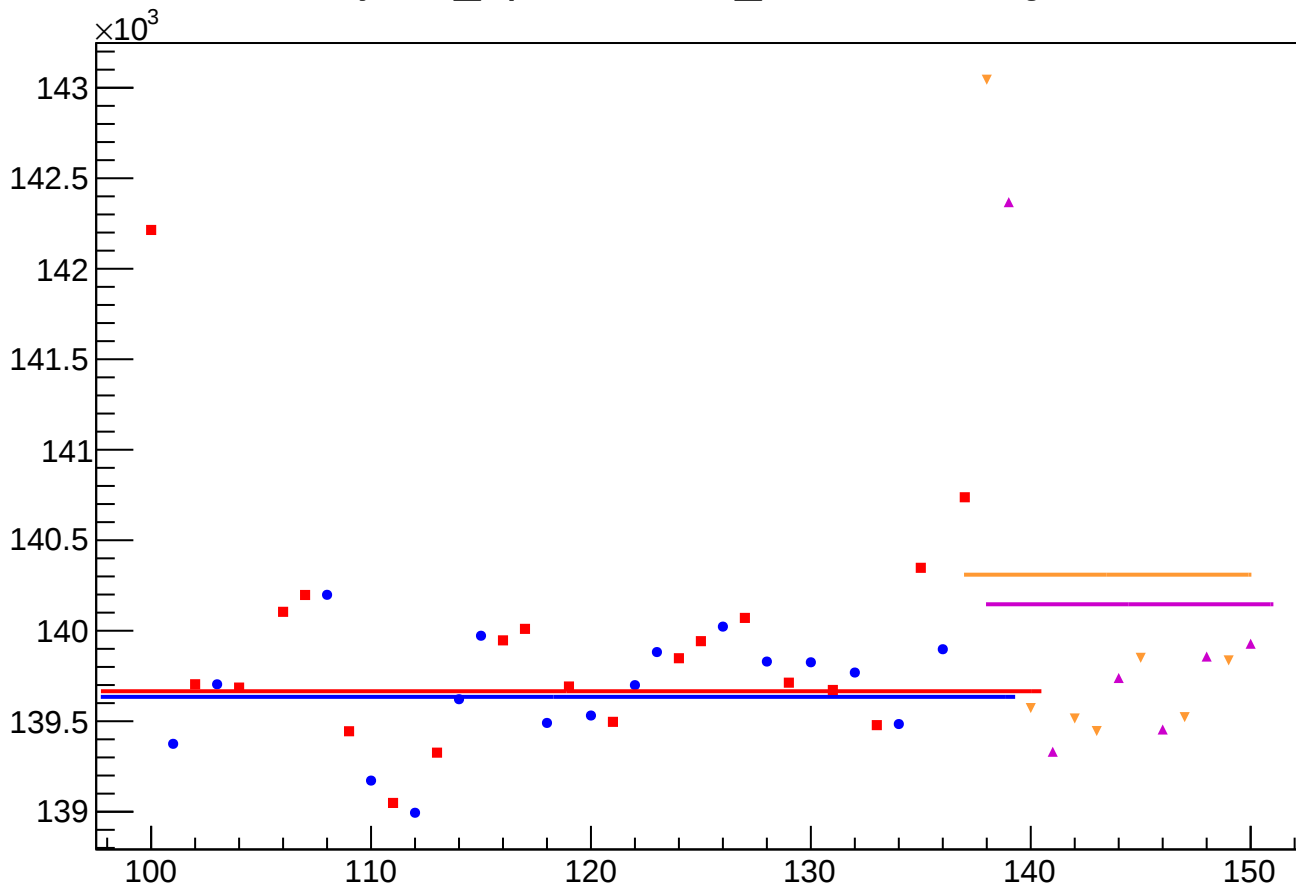
172.865+/-0.038 χ^2/NDF : 1475855.6/23

Right Out: 154.174+/-0.044 χ^2/NDF : 1224004.2/19

168.501+/-0.036 χ^2/NDF : 1849336.4/25

Left In: 201.877+/-0.066 χ^2/NDF : 264180.3/5

yield_bpm0l09WS_mean vs Slug



Right In: 139634.700 $\pm$ 0.068 χ^2 /NDF: 24844912.0/16

Left Out: 140309.720 $\pm$ 0.096 χ^2 /NDF: 200902956.6/6

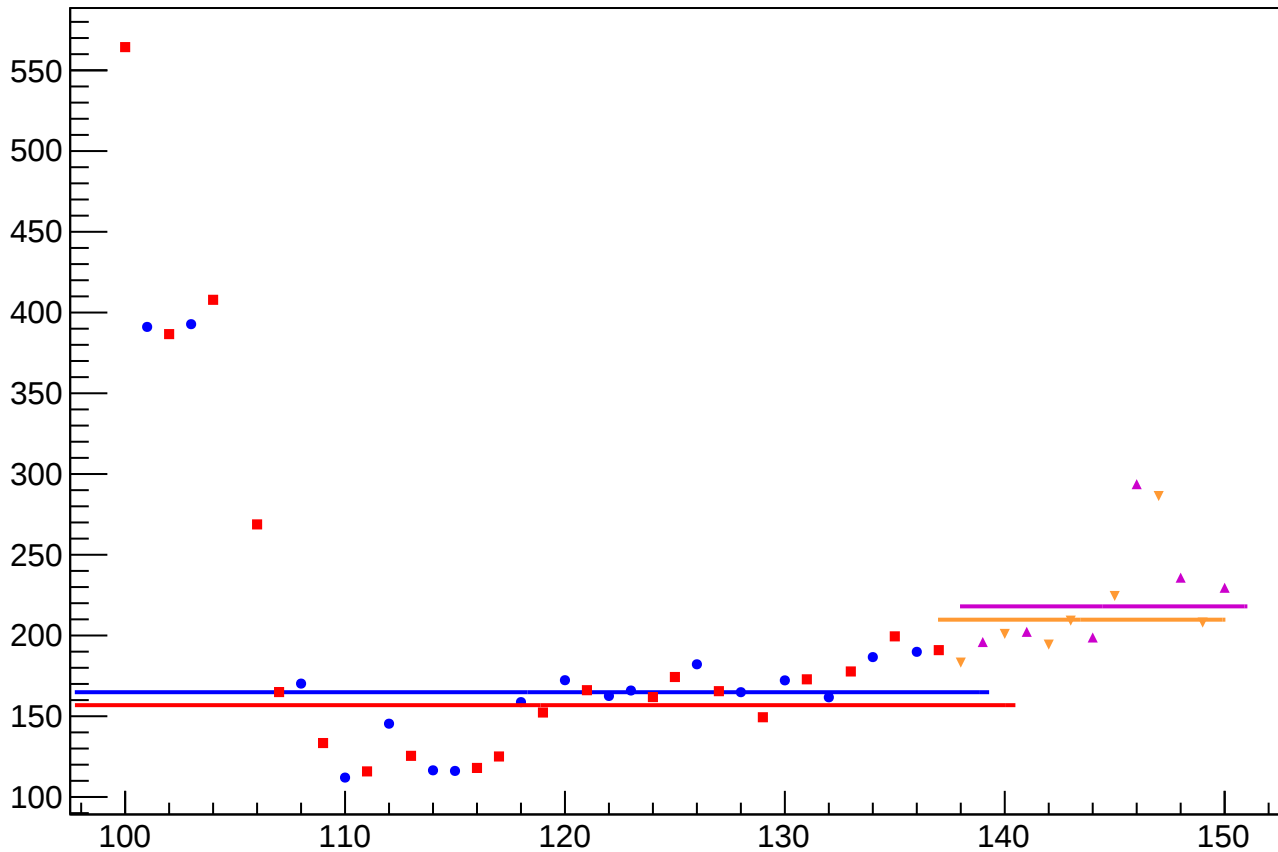
Right Out: 139665.743 $\pm$ 0.063 χ^2 /NDF: 38703726.2/19

Left In: 140146.210 $\pm$ 0.101 χ^2 /NDF: 109799229.8/5

139859.408 $\pm$ 0.055 χ^2 /NDF: 258768059.4/23

139799.653 $\pm$ 0.053 χ^2 /NDF: 164871971.2/25

yield_bpm0l09WS_rms vs Slug



Right In: 164.884+/-0.048 χ^2/NDF : 1066270.8/16

Left Out: 209.797+/-0.068 χ^2/NDF :155900.2/6

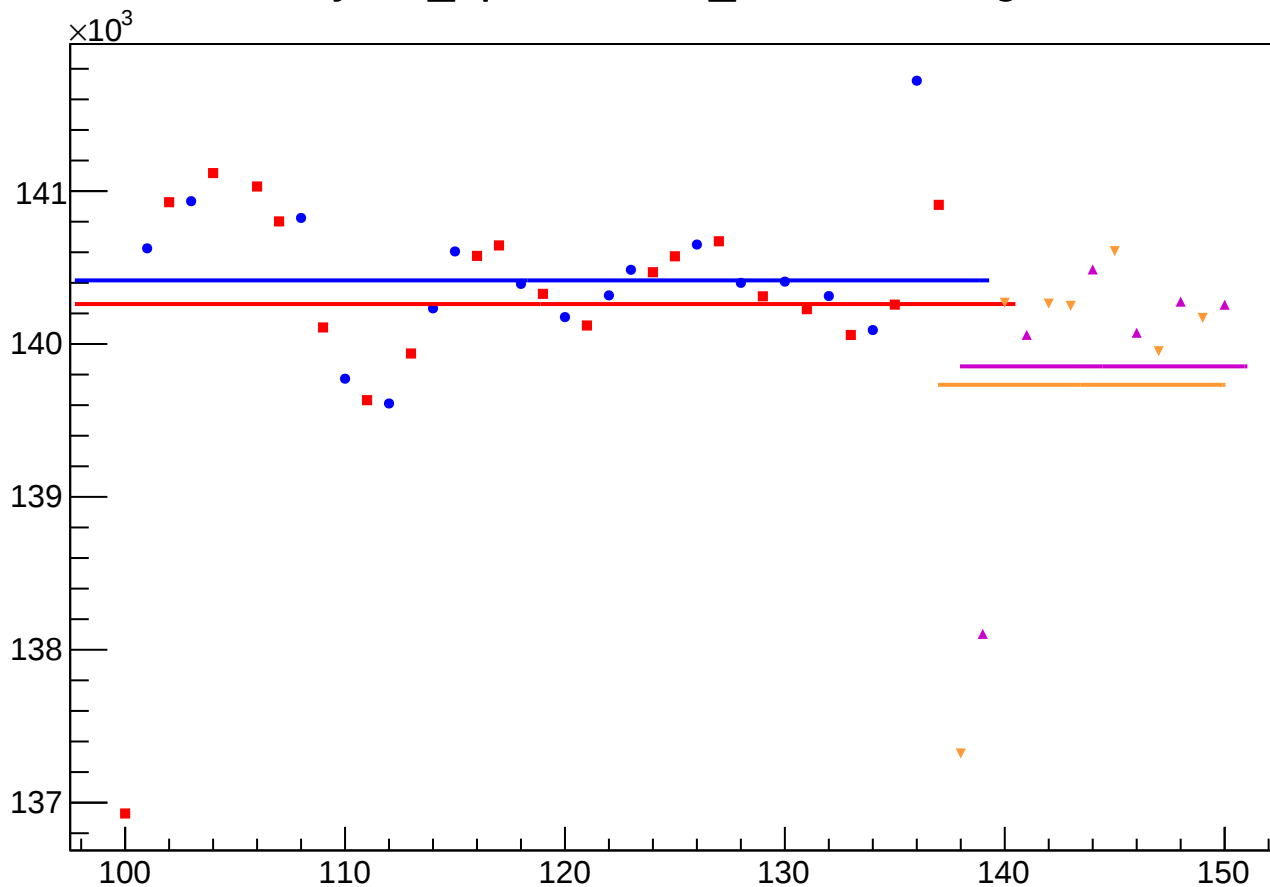
179.835+/-0.039 χ^2/NDF : 1514526.8/23

Right Out: 156.859+/-0.044 χ^2/NDF : 1250656.2/19

173.910+/-0.038 χ^2/NDF : 1940869.9/25

Left In: 218.039+/-0.071 χ^2/NDF :159412.4/5

yield_bpm0l10WS_mean vs Slug



Right In: 140416.064 $\pm$ 0.068 χ^2/NDF : 69975821.3/16

Left Out: 139732.998 $\pm$ 0.086 χ^2/NDF : 180927489.6/6

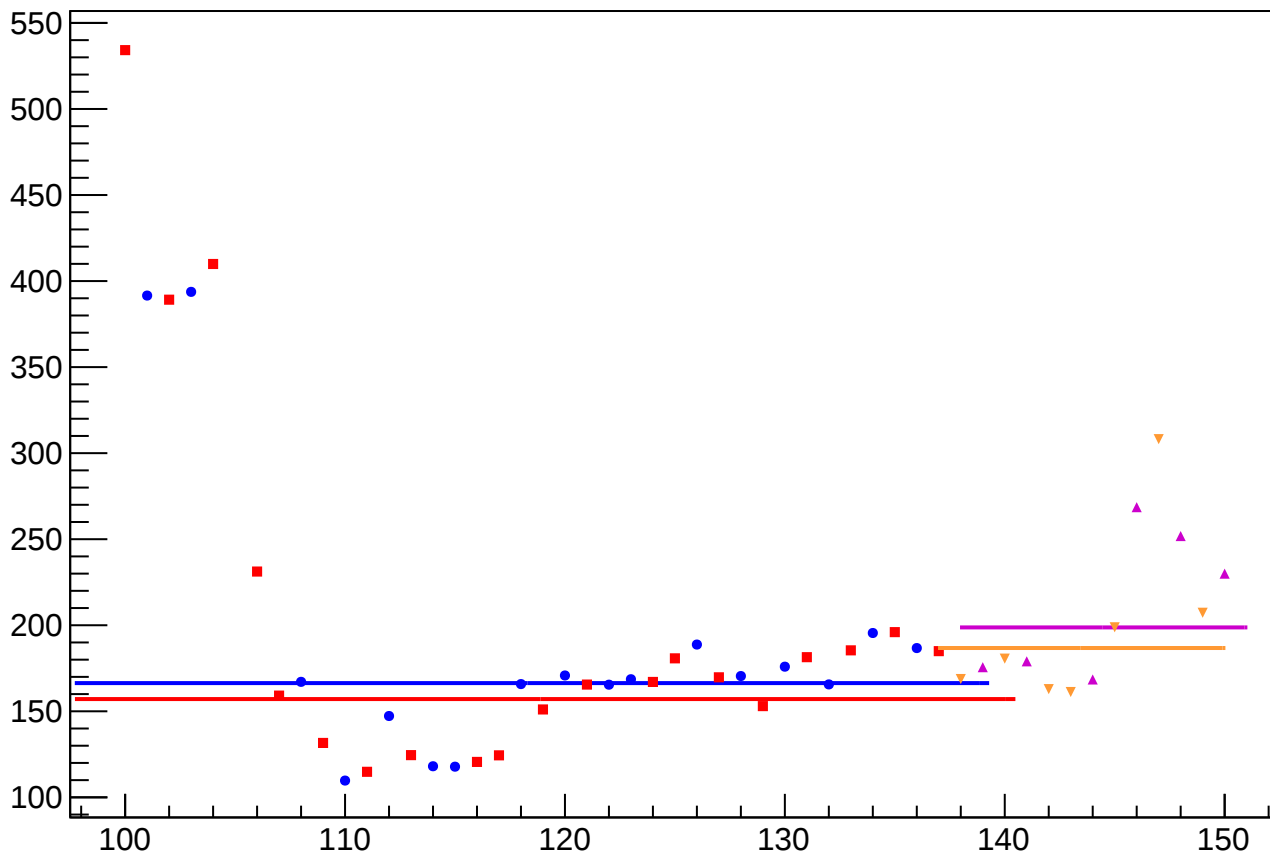
Right Out: 140261.267 $\pm$ 0.063 χ^2/NDF : 38479140.4/19

Left In: 139853.682 $\pm$ 0.093 χ^2/NDF : 85353299.0/5

140152.551 $\pm$ 0.054 χ^2/NDF : 289382677.4/23

140132.804 $\pm$ 0.052 χ^2/NDF : 137111103.5/25

yield_bpm0l10WS_rms vs Slug



Right In: 166.388 ± 0.048 χ^2/NDF : 1080964.8/16

Left Out: 186.775 ± 0.061 χ^2/NDF : 330513.3/6

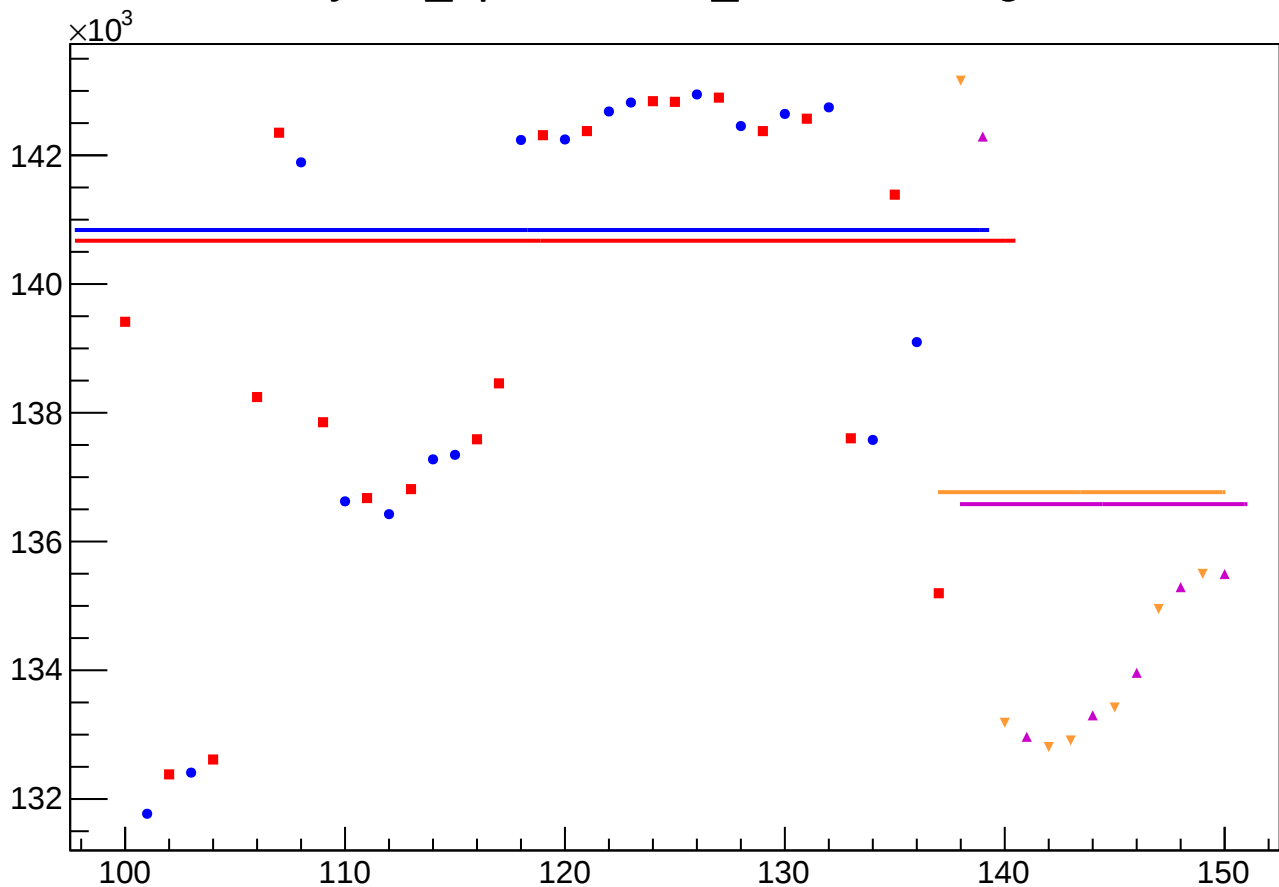
Right Out: 157.110 ± 0.044 χ^2/NDF : 1235934.7/19

Left In: 198.742 ± 0.065 χ^2/NDF : 304582.8/5

174.253 ± 0.038 χ^2/NDF : 1480032.4/23

170.232 ± 0.037 χ^2/NDF : 1817582.8/25

yield_bpm0r03WS_mean vs Slug



Right In: 140839.133 ± 0.100 χ^2/NDF : 822682996.3/16

Left Out: 136766.963 ± 0.136 χ^2/NDF : 1058378130.8/6

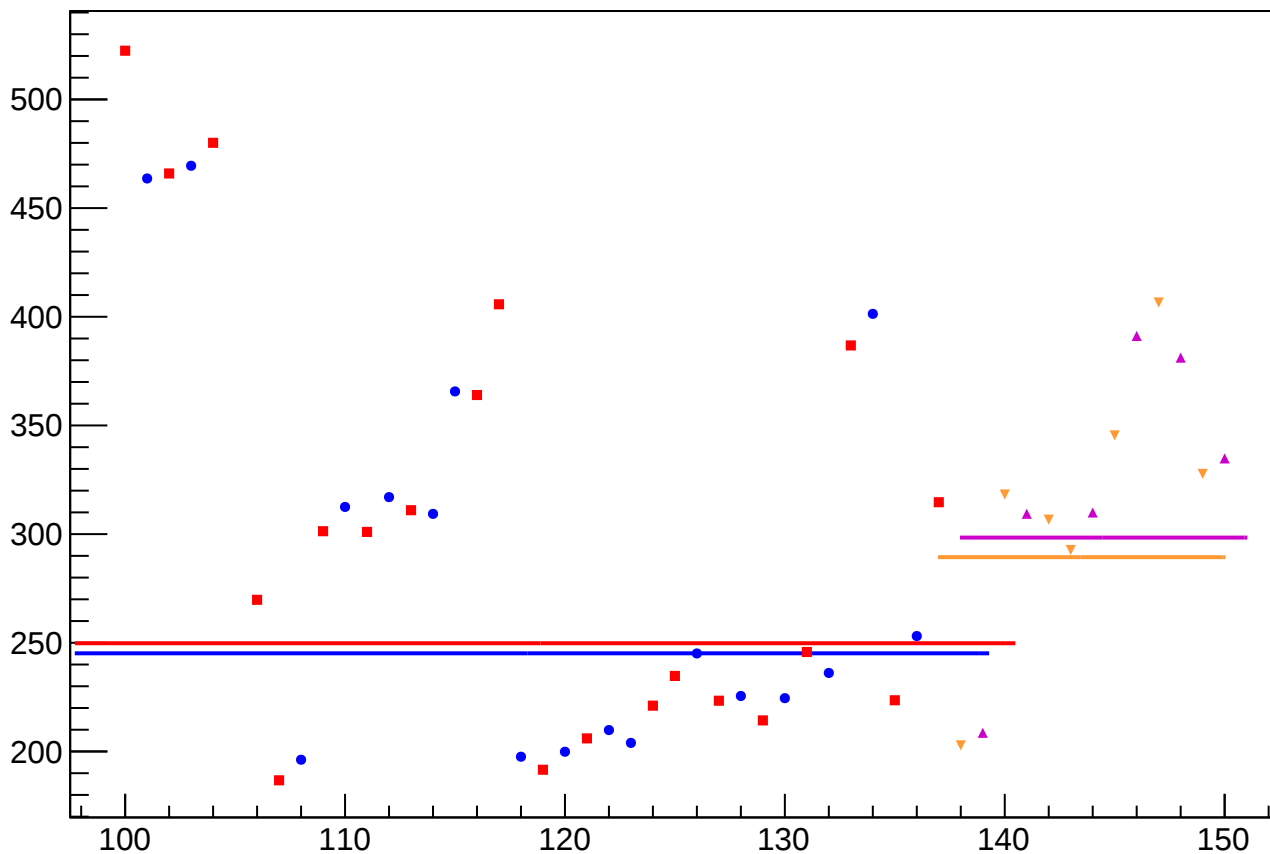
Right Out: 140672.898 ± 0.099 χ^2/NDF : 841965357.5/19

Left In: 136581.074 ± 0.142 χ^2/NDF : 745352897.5/5

139413.266 ± 0.081 χ^2/NDF : 2461562349.6/23

139330.512 ± 0.081 χ^2/NDF : 2148032920.0/25

yield_bpm0r03WS_rms vs Slug



Right In: 245.159 ± 0.071 χ^2/NDF : 869491.6/16

Left Out: 289.395 ± 0.096 χ^2/NDF : 457976.6/6

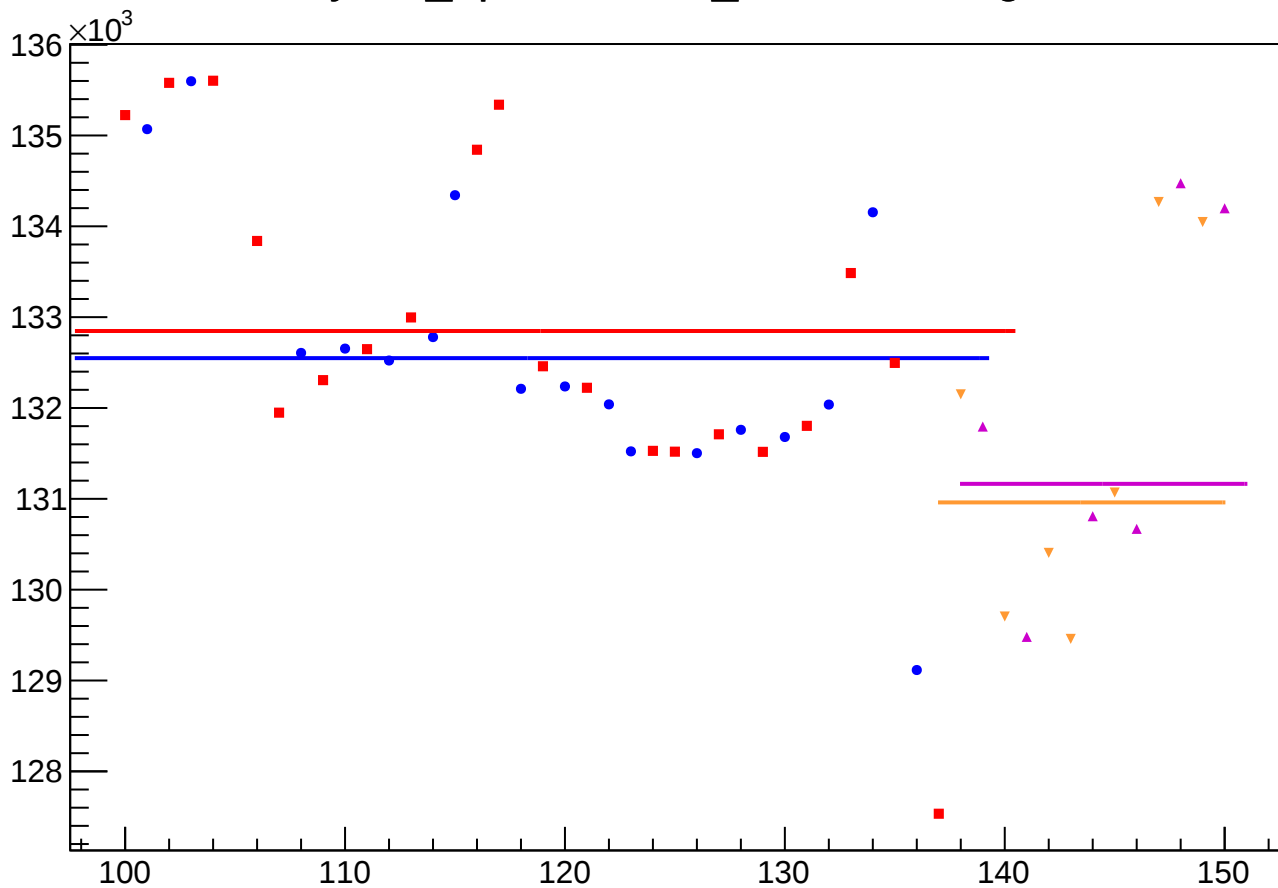
Right Out: 249.792 ± 0.070 χ^2/NDF : 1022316.0/19

Left In: 298.406 ± 0.100 χ^2/NDF : 424224.0/5

260.648 ± 0.057 χ^2/NDF : 1464470.3/23

265.741 ± 0.057 χ^2/NDF : 1604833.3/25

yield_bpm0r05WS_mean vs Slug



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 130960.591 $\pm$ 0.098 χ^2 /NDF: 226725926.5/6

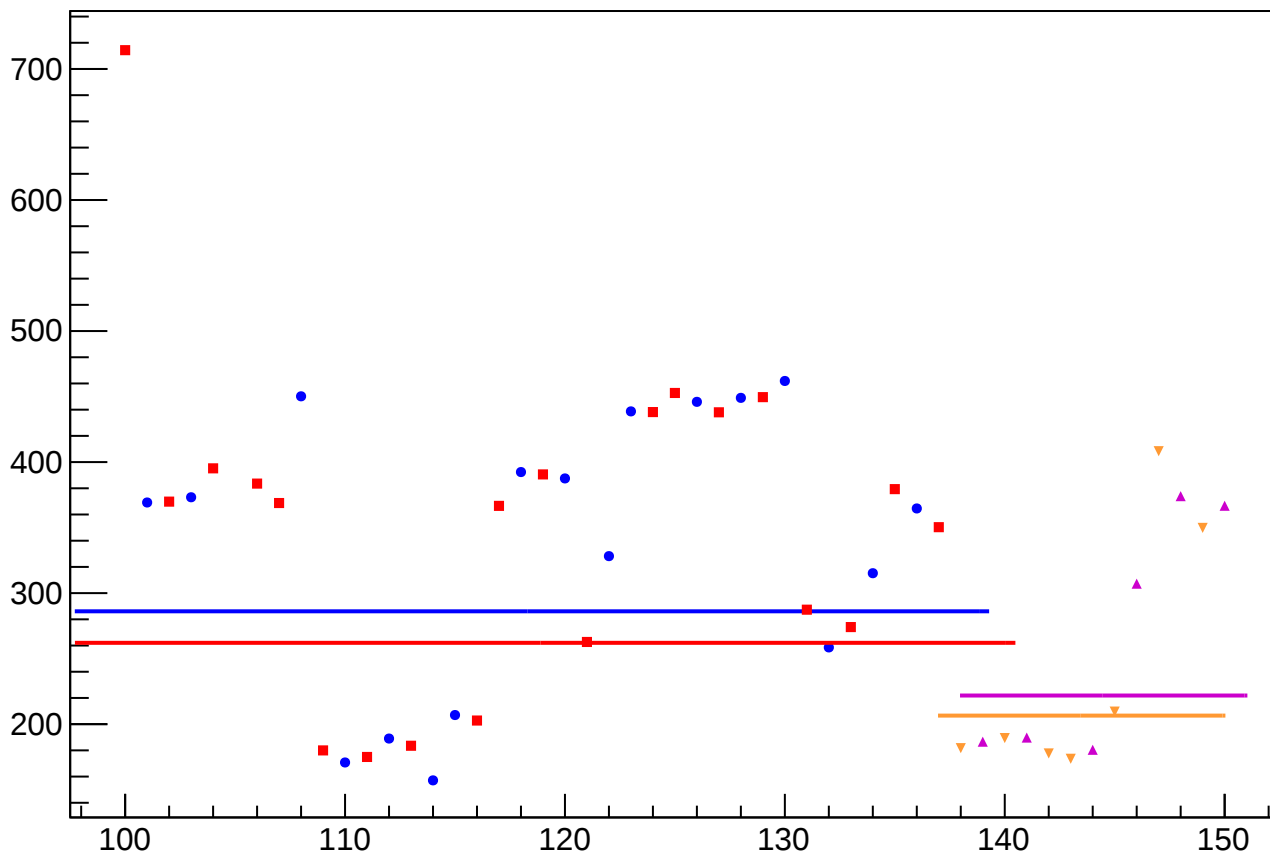
Right Out: 132847.502 $\pm$ 0.107 χ^2 /NDF: 151618589.4/19

Left In: 131164.933 $\pm$ 0.107 χ^2 /NDF: 197891055.3/5

131602.820 $\pm$ 0.076 χ^2 /NDF: 493292876.2/23

132007.832 $\pm$ 0.076 χ^2 /NDF: 473133583.1/25

yield_bpm0r05WS_rms vs Slug



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 206.532+/-0.070 χ^2/NDF : 755649.1/6

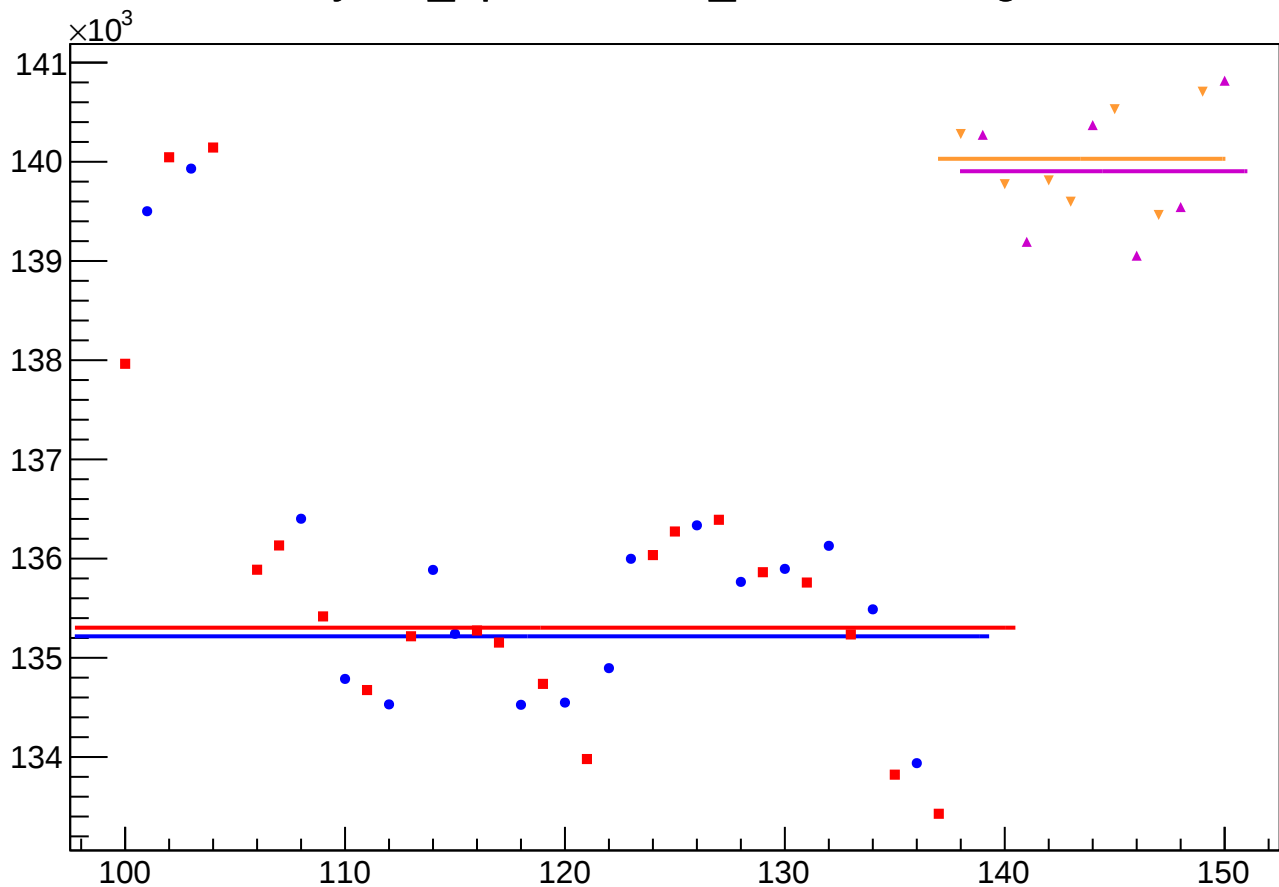
238.714+/-0.054 χ^2/NDF : 2810511.1/23

Right Out: 262.073+/-0.076 χ^2/NDF : 1630239.5/19

242.002+/-0.054 χ^2/NDF : 2599527.8/25

Left In: 221.855+/-0.076 χ^2/NDF : 828027.6/5

yield_bpm0i02WS_mean vs Slug



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140030.241 $\pm$ 0.085 χ^2 /NDF: 25652315.8/6

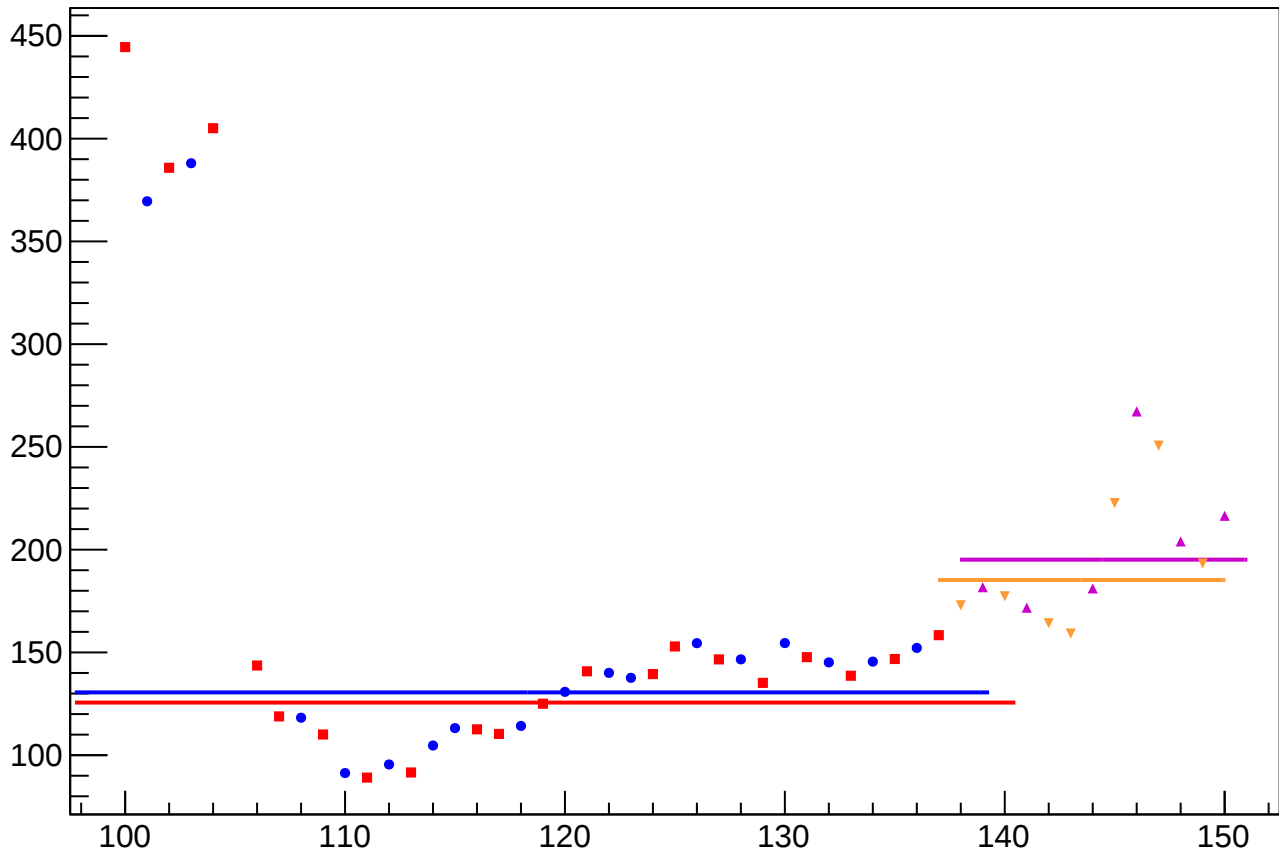
Right Out: 135303.736 $\pm$ 0.051 χ^2 /NDF: 357717935.5/19

Left In: 139904.715 $\pm$ 0.091 χ^2 /NDF: 47517752.5/5

136603.123 $\pm$ 0.046 χ^2 /NDF: 2655967000.5/23

136404.856 $\pm$ 0.044 χ^2 /NDF: 2360317600.2/25

yield_bpm0i02WS_rms vs Slug



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 185.262 $\pm$ 0.060 χ^2 /NDF:203750.2/6

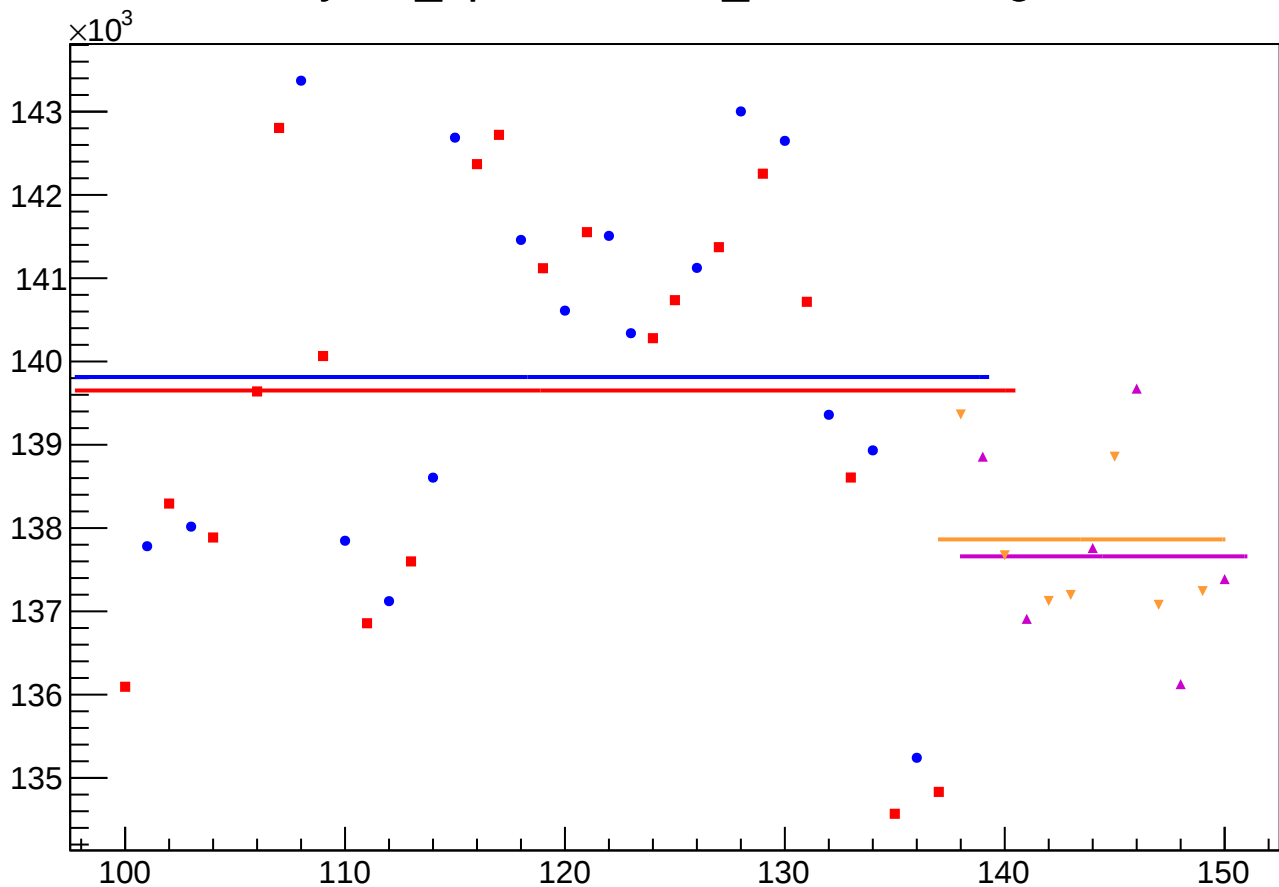
146.310 $\pm$ 0.032 χ^2 /NDF: 2160479.6/23

Right Out: 125.603 $\pm$ 0.036 χ^2 /NDF: 1441677.4/19

142.244 $\pm$ 0.031 χ^2 /NDF: 2510190.8/25

Left In: 195.137 $\pm$ 0.064 χ^2 /NDF:175449.0/5

yield_bpm0i02aWS_mean vs Slug



Right In: 139813.664 ± 0.062 $\chi^2/\text{NDF}: 1689865533.6/16$

Left Out: 137864.053 ± 0.085 $\chi^2/\text{NDF}: 108884482.2/6$

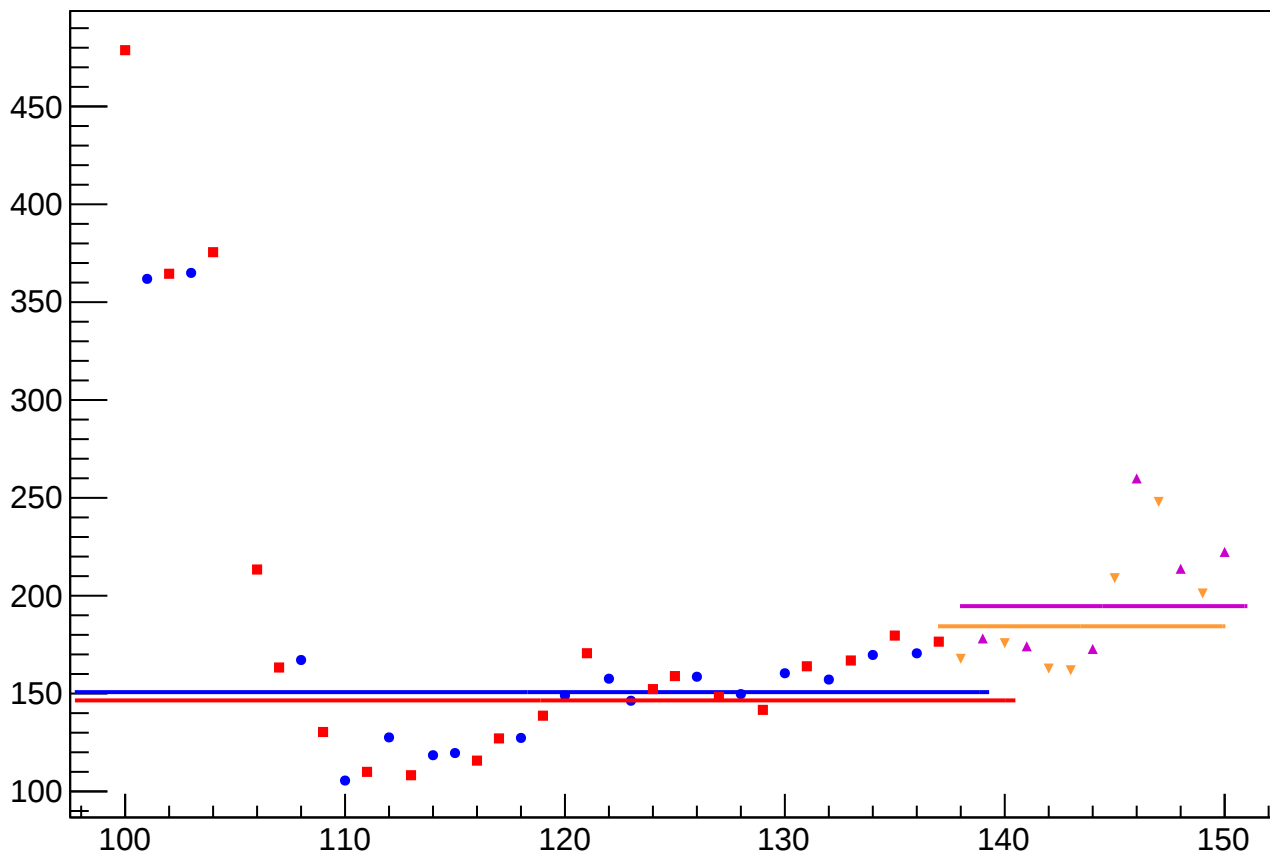
Right Out: 139651.821 ± 0.059 $\chi^2/\text{NDF}: 1531019137.4/19$

Left In: 137660.385 ± 0.091 $\chi^2/\text{NDF}: 133159531.6/5$

139136.381 ± 0.050 $\chi^2/\text{NDF}: 2143117966.6/23$

139061.638 ± 0.049 $\chi^2/\text{NDF}: 2004718644.3/25$

yield_bpm0i02aWS_rms vs Slug



Right In: 150.733 ± 0.044 χ^2/NDF : 1050071.6/16

Left Out: 184.379 ± 0.060 χ^2/NDF : 188999.4/6

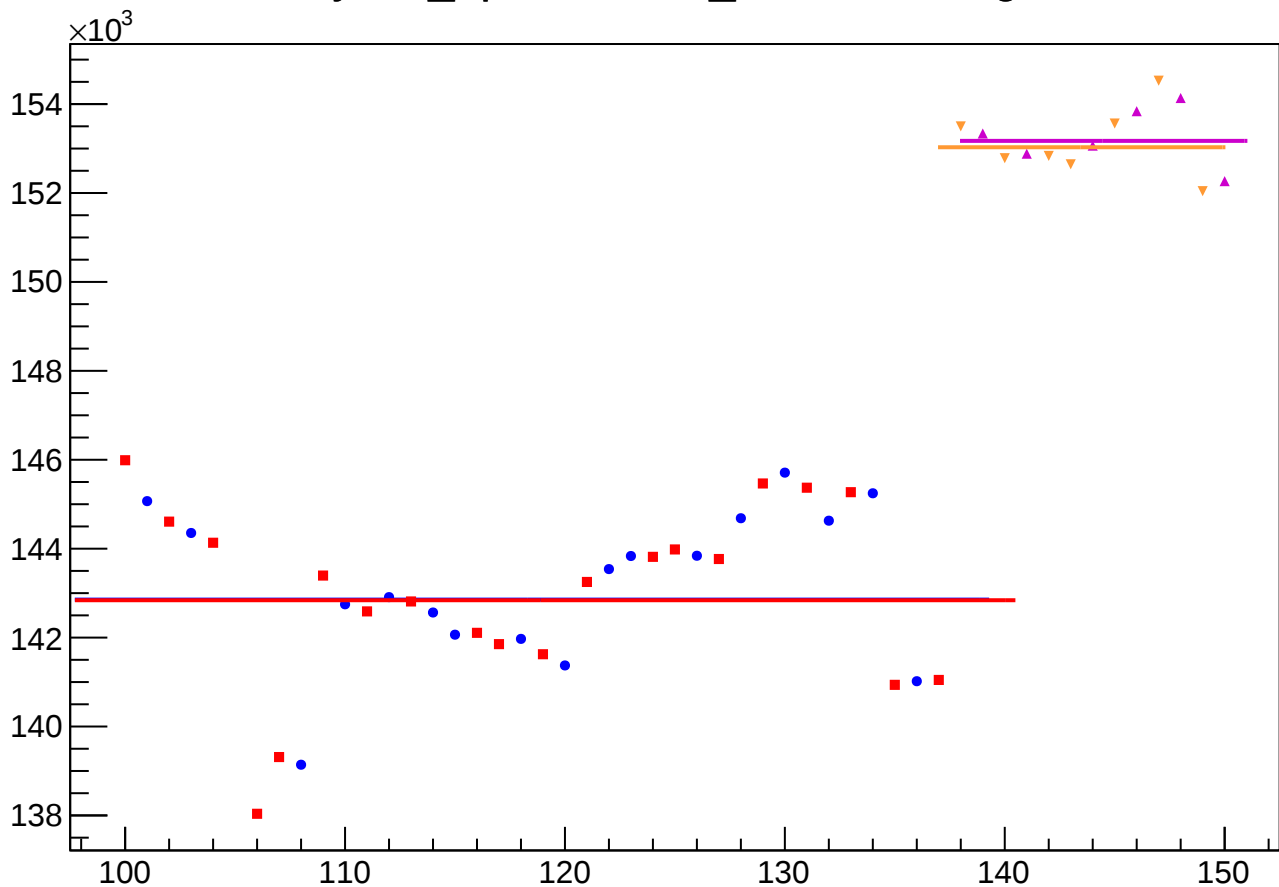
Right Out: 146.506 ± 0.042 χ^2/NDF : 1205131.2/19

Left In: 194.680 ± 0.064 χ^2/NDF : 196462.6/5

162.422 ± 0.035 χ^2/NDF : 1444200.5/23

160.783 ± 0.035 χ^2/NDF : 1800161.2/25

yield_bpm0i05WS_mean vs Slug



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16

Left Out: 153029.039 $\pm$ 0.085 χ^2 /NDF: 62990574.1/6

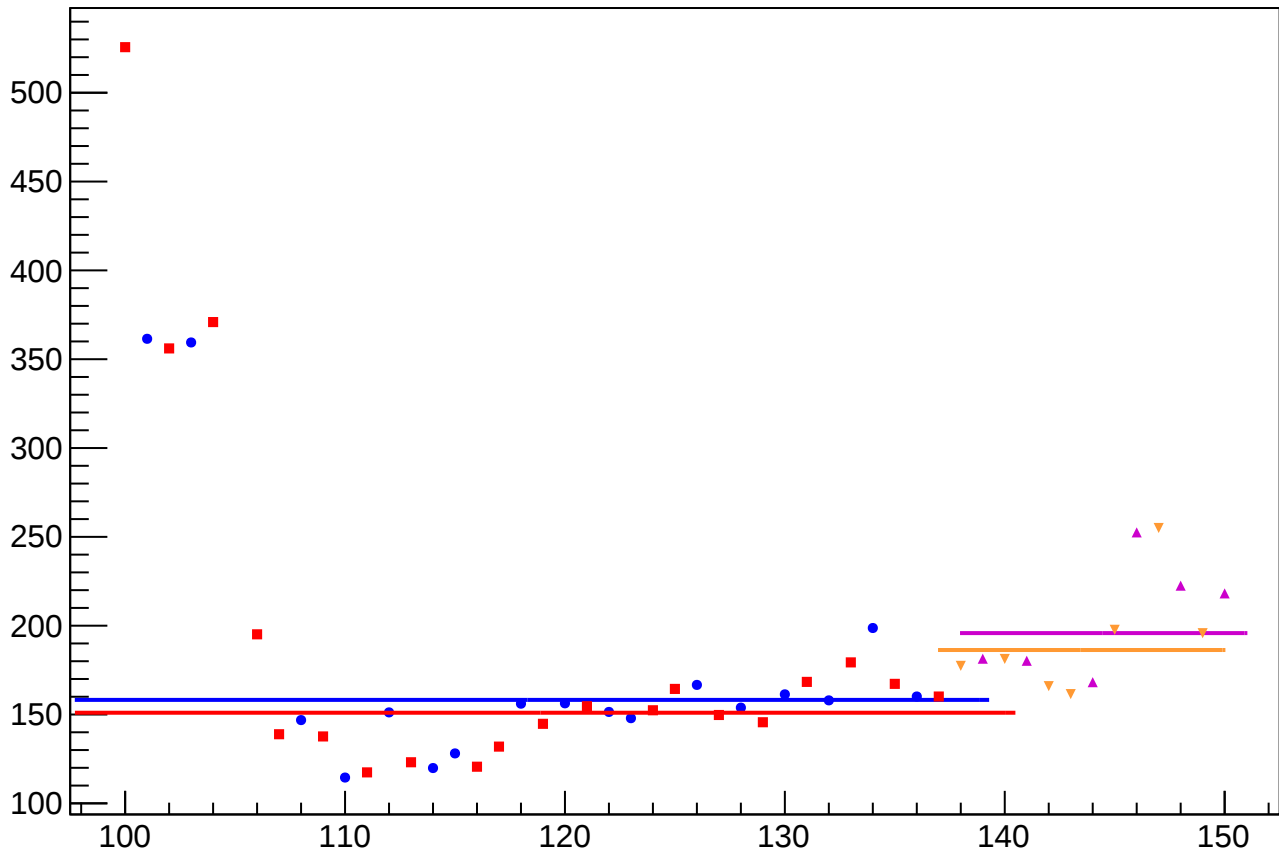
Right Out: 142840.509 $\pm$ 0.060 χ^2 /NDF: 852484333.4/19

Left In: 153172.624 $\pm$ 0.091 χ^2 /NDF: 37875947.9/5

146560.602 $\pm$ 0.052 χ^2 /NDF: 9822482612.7/23

146000.584 $\pm$ 0.050 χ^2 /NDF: 9921587760.4/25

yield_bpm0i05WS_rms vs Slug



Right In: 158.233 ± 0.046 χ^2/NDF : 883513.4/16

Left Out: 186.308 ± 0.060 χ^2/NDF : 168830.3/6

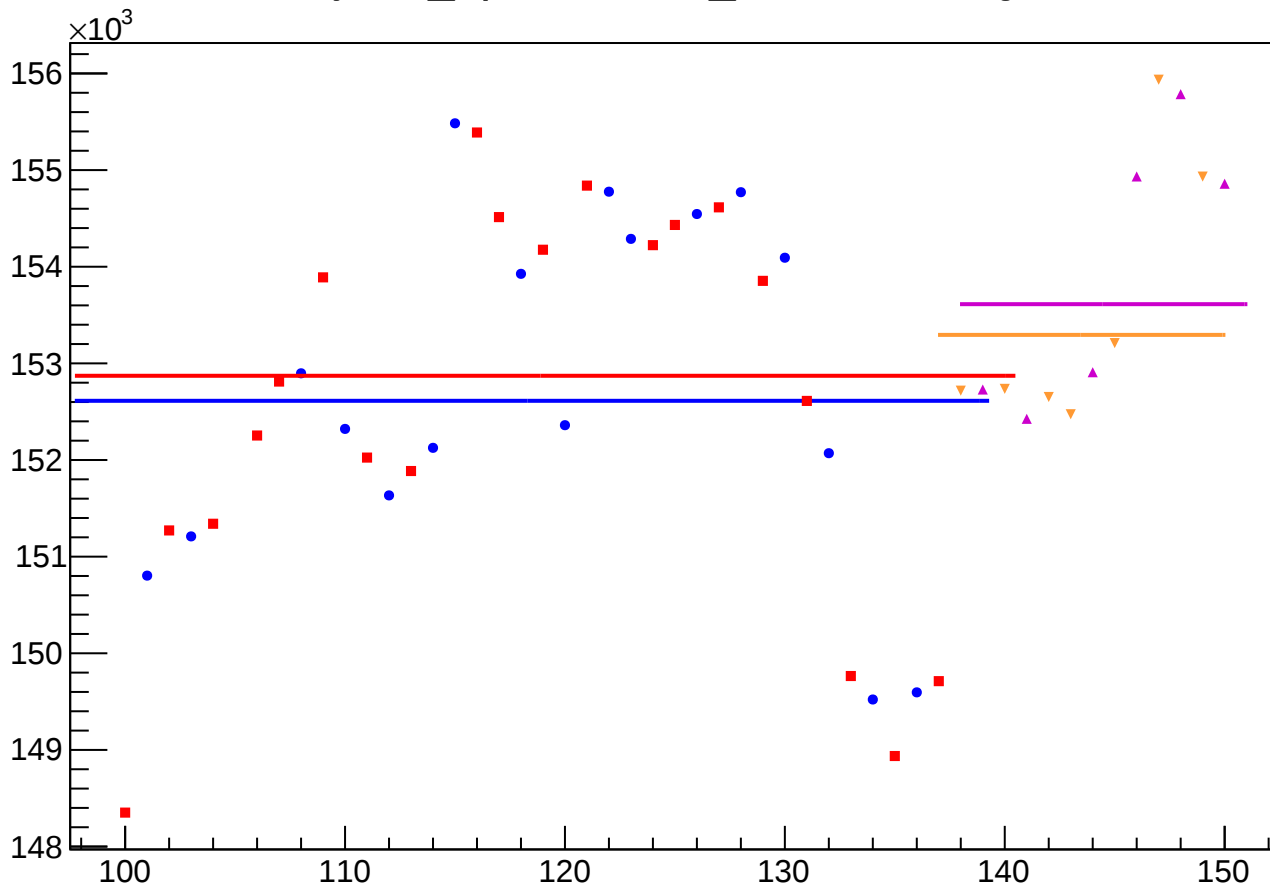
Right Out: 151.003 ± 0.043 χ^2/NDF : 1005104.9/19

Left In: 195.830 ± 0.064 χ^2/NDF : 185703.3/5

168.460 ± 0.036 χ^2/NDF : 1189683.0/23

164.713 ± 0.035 χ^2/NDF : 1530806.6/25

yield_bpm0i07WS_mean vs Slug



Right In: 152612.586 ± 0.072 $\chi^2/\text{NDF}: 621416187.4/16$

Left Out: 153294.725 ± 0.086 $\chi^2/\text{NDF}: 163551164.7/6$

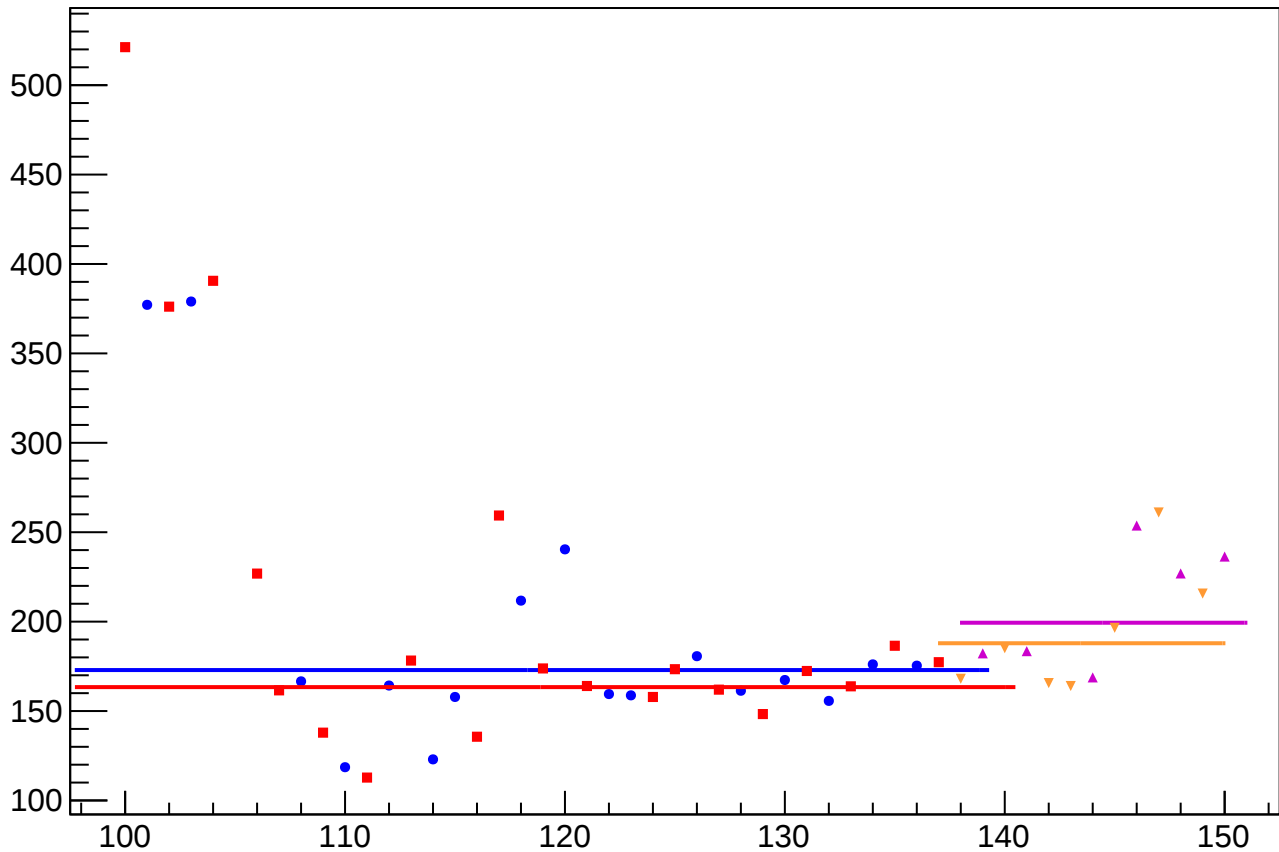
Right Out: 152871.618 ± 0.066 $\chi^2/\text{NDF}: 720639345.6/19$

Left In: 153612.591 ± 0.092 $\chi^2/\text{NDF}: 182432005.6/5$

152893.872 ± 0.055 $\chi^2/\text{NDF}: 821810830.1/23$

153123.200 ± 0.054 $\chi^2/\text{NDF}: 945695179.8/25$

yield_bpm0i07WS_rms vs Slug



Right In: 172.921 ± 0.051 χ^2/NDF : 941954.0/16

Left Out: 187.915 ± 0.061 χ^2/NDF : 214321.9/6

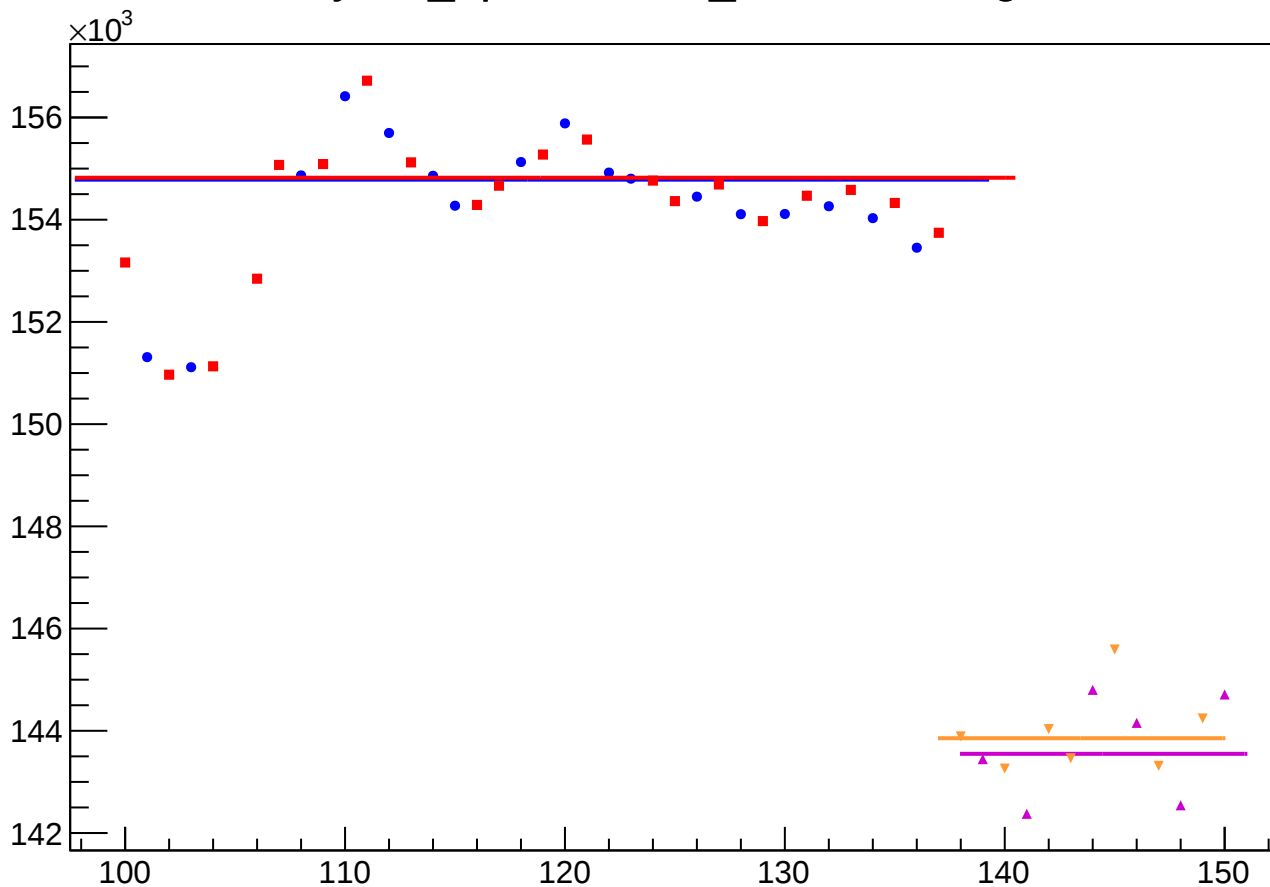
Right Out: 163.382 ± 0.047 χ^2/NDF : 1044431.2/19

Left In: 199.385 ± 0.065 χ^2/NDF : 217137.2/5

179.104 ± 0.039 χ^2/NDF : 1191879.3/23

175.606 ± 0.038 χ^2/NDF : 1462835.4/25

yield_bpm1i02WS_mean vs Slug



Right In: 154783.944 $\pm$ 0.065 χ^2 /NDF: 265581398.0/16

Left Out: 143854.673 $\pm$ 0.078 χ^2 /NDF: 74154946.0/6

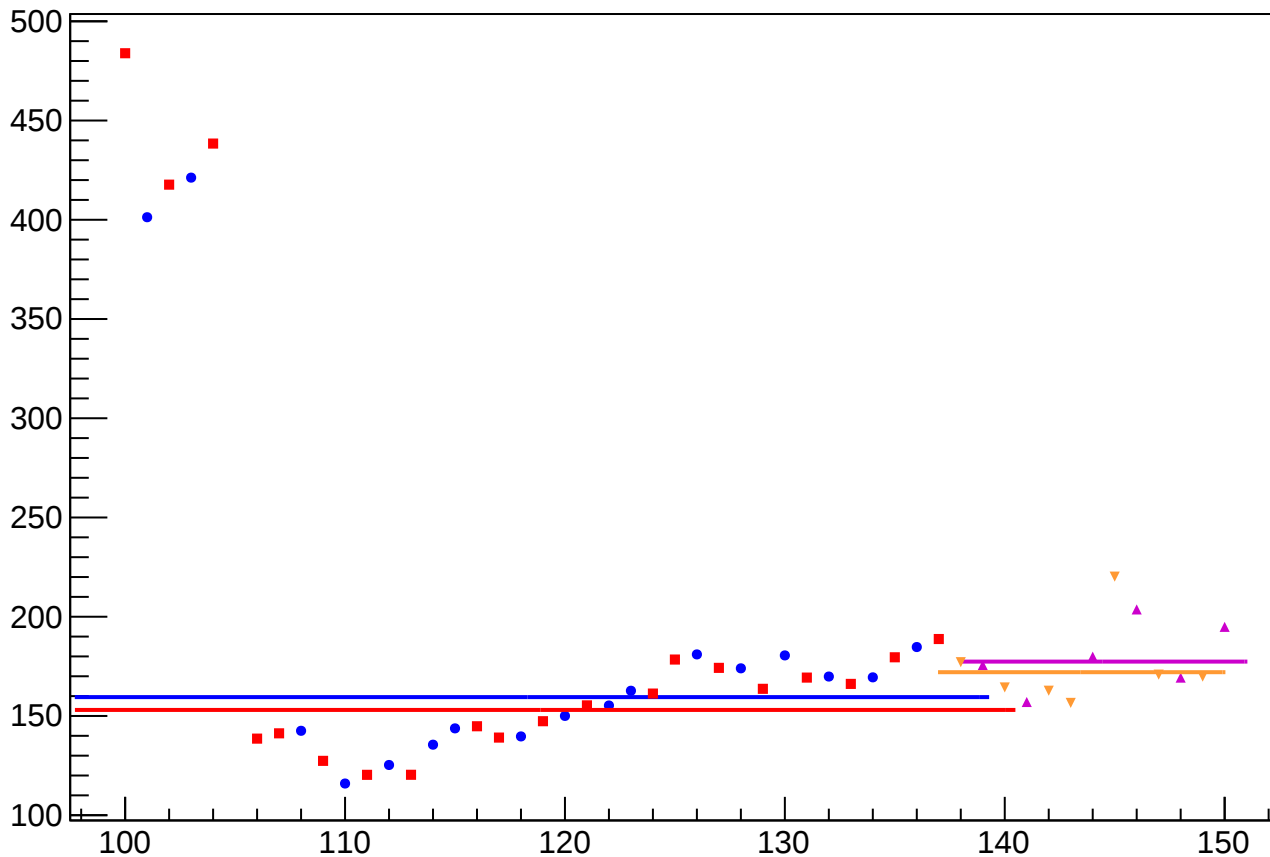
Right Out: 154820.824 $\pm$ 0.061 χ^2 /NDF: 293904936.4/19

Left In: 143549.294 $\pm$ 0.081 χ^2 /NDF: 153976538.6/5

150278.418 $\pm$ 0.050 χ^2 /NDF: 11863831900.7/2

150785.382 $\pm$ 0.049 χ^2 /NDF: 12818972068.3/2

yield_bpm1i02WS_rms vs Slug



Right In: 159.504 $\pm$ 0.046 χ^2 /NDF: 1131844.5/16

Left Out: 172.053 $\pm$ 0.055 χ^2 /NDF:93645.6/6

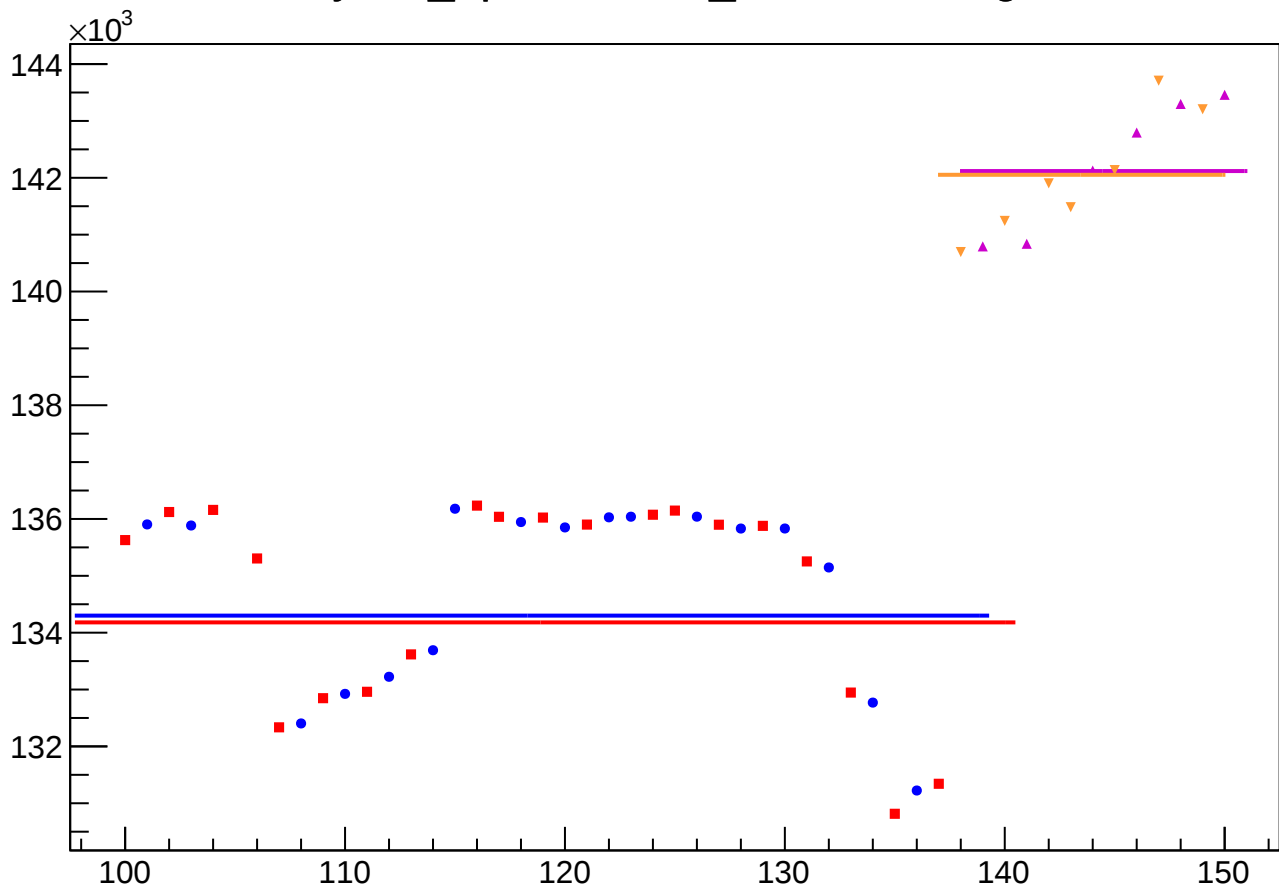
Right Out: 153.038 $\pm$ 0.043 χ^2 /NDF: 1174616.4/19

Left In: 177.390 $\pm$ 0.057 χ^2 /NDF:72203.5/5

164.677 $\pm$ 0.035 χ^2 /NDF: 1255876.4/23

161.757 $\pm$ 0.034 χ^2 /NDF: 1362316.0/25

yield_bpm1i04WS_mean vs Slug



Right In: 134300.025 ± 0.050 $\chi^2/\text{NDF}: 1149581803.2/16$

Left Out: 142052.805 ± 0.077 $\chi^2/\text{NDF}: 182560073.7/6$

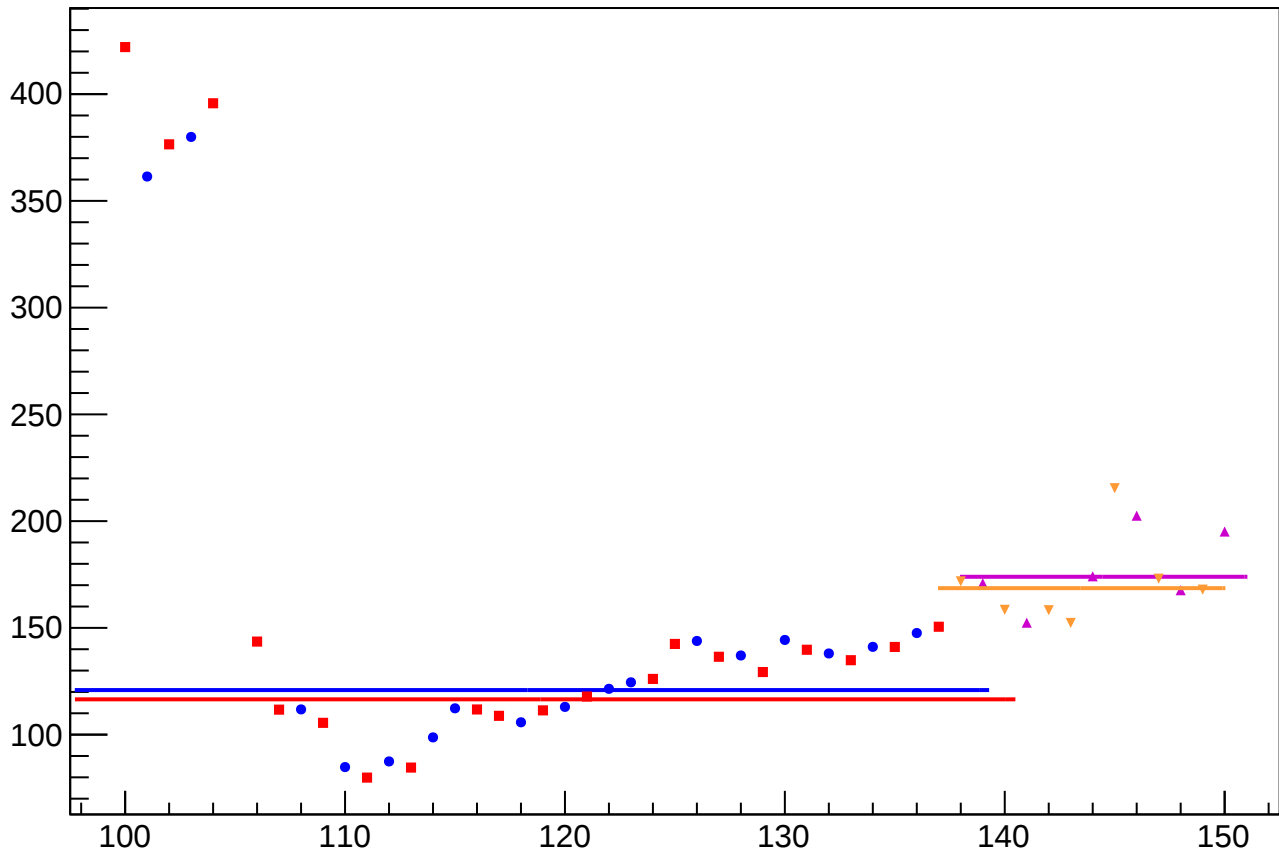
Right Out: 134180.888 ± 0.047 $\chi^2/\text{NDF}: 1224202240.2/19$

Left In: 142118.637 ± 0.080 $\chi^2/\text{NDF}: 188025958.3/5$

136636.726 ± 0.042 $\chi^2/\text{NDF}: 8480335796.0/23$

136236.675 ± 0.041 $\chi^2/\text{NDF}: 8737086042.9/25$

yield_bpm1i04WS_rms vs Slug



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 168.605 $\pm$ 0.054 χ^2 /NDF: 98642.6/6

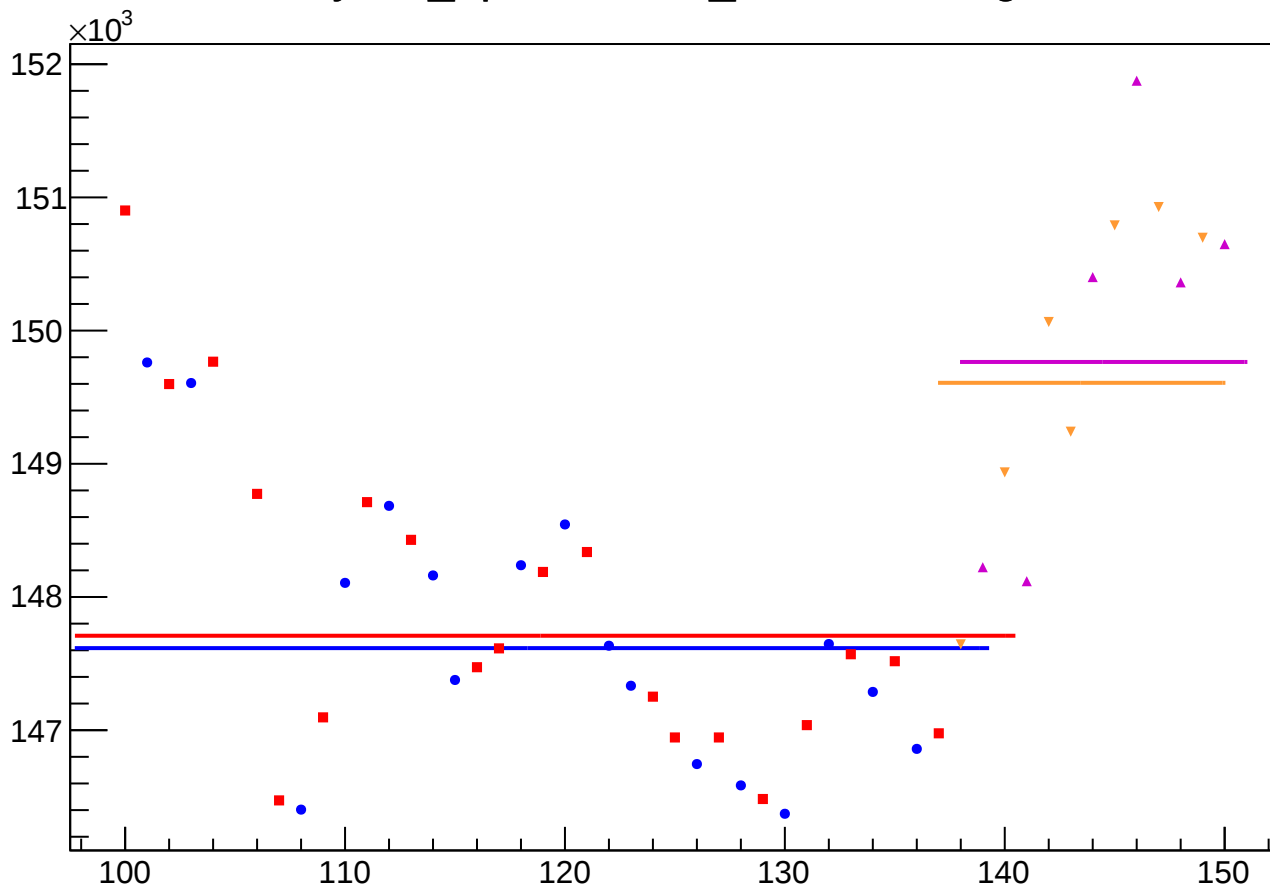
135.259 $\pm$ 0.030 χ^2 /NDF: 2104307.0/23

Right Out: 116.531 $\pm$ 0.033 χ^2 /NDF: 1541779.4/19

131.400 $\pm$ 0.029 χ^2 /NDF: 2395284.2/25

Left In: 173.942 $\pm$ 0.056 χ^2 /NDF: 87162.0/5

yield_bpm1i06WS_mean vs Slug



Right In: 147616.150 ± 0.062 χ^2/NDF : 199263428.7/16

Left Out: 149607.963 ± 0.094 χ^2/NDF : 144106835.6/6

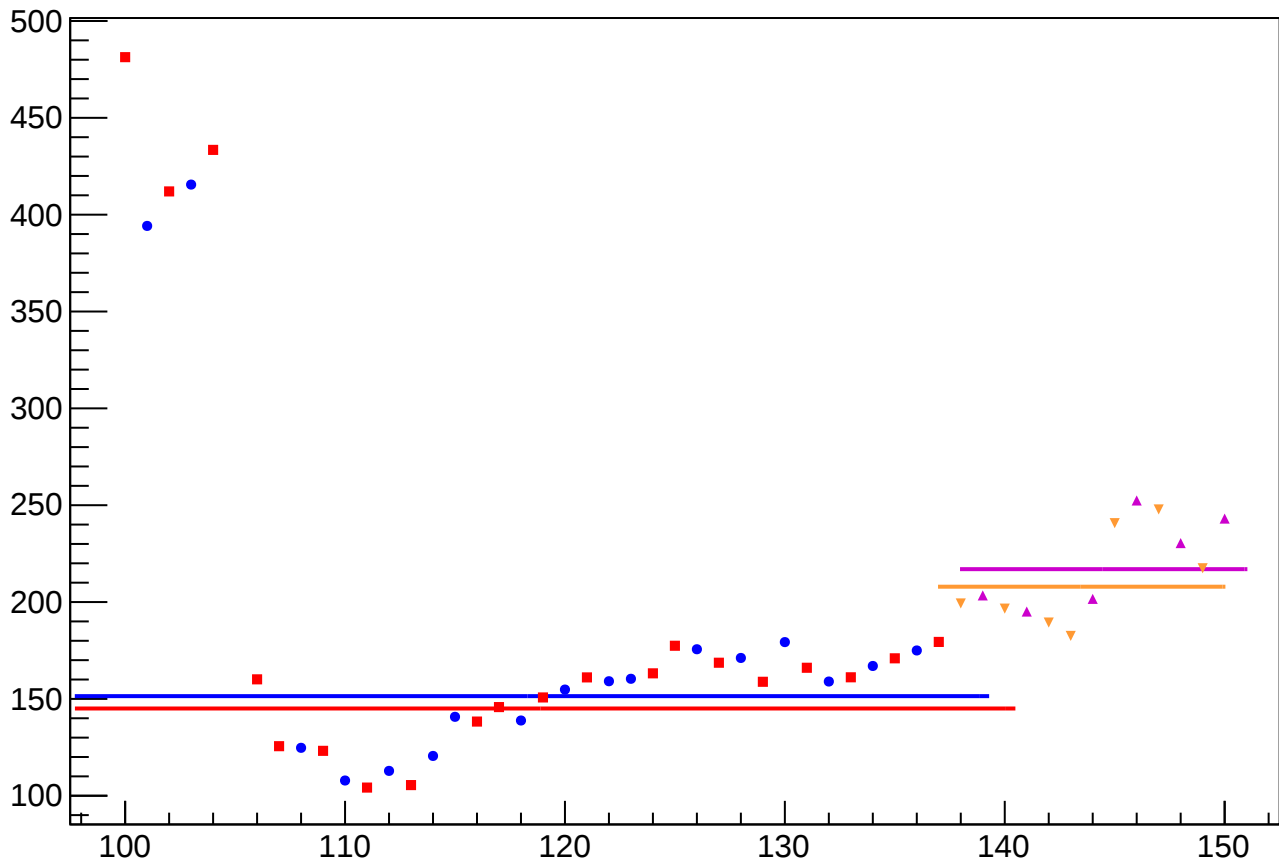
Right Out: 147709.096 ± 0.058 χ^2/NDF : 203924272.1/19

Left In: 149764.521 ± 0.099 χ^2/NDF : 179032350.0/5

148222.236 ± 0.052 χ^2/NDF : 652579204.1/23

148232.946 ± 0.050 χ^2/NDF : 701555178.9/25

yield_bpm1i06WS_rms vs Slug



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 207.924+/-0.067 χ^2/NDF : 112967.9/6

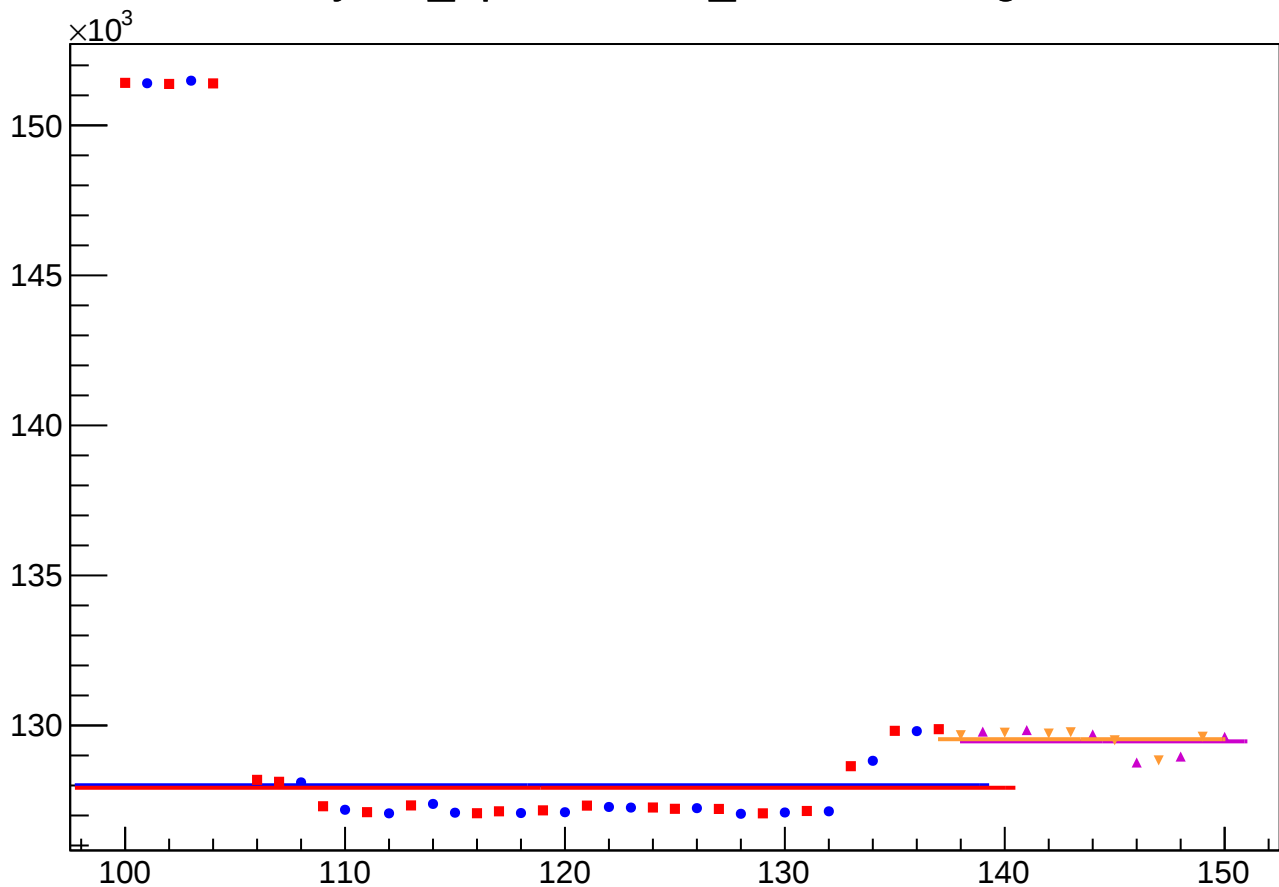
168.616+/-0.037 χ^2/NDF : 1868413.6/23

Right Out: 145.044+/-0.041 χ^2/NDF : 1375974.1/19

163.379+/-0.035 χ^2/NDF : 2249891.9/25

Left In: 216.984+/-0.070 χ^2/NDF : 93360.5/5

yield_bpm2i01WS_mean vs Slug



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16

Left Out: 129542.069 $\pm$ 0.076 χ^2 /NDF: 18677495.1/6

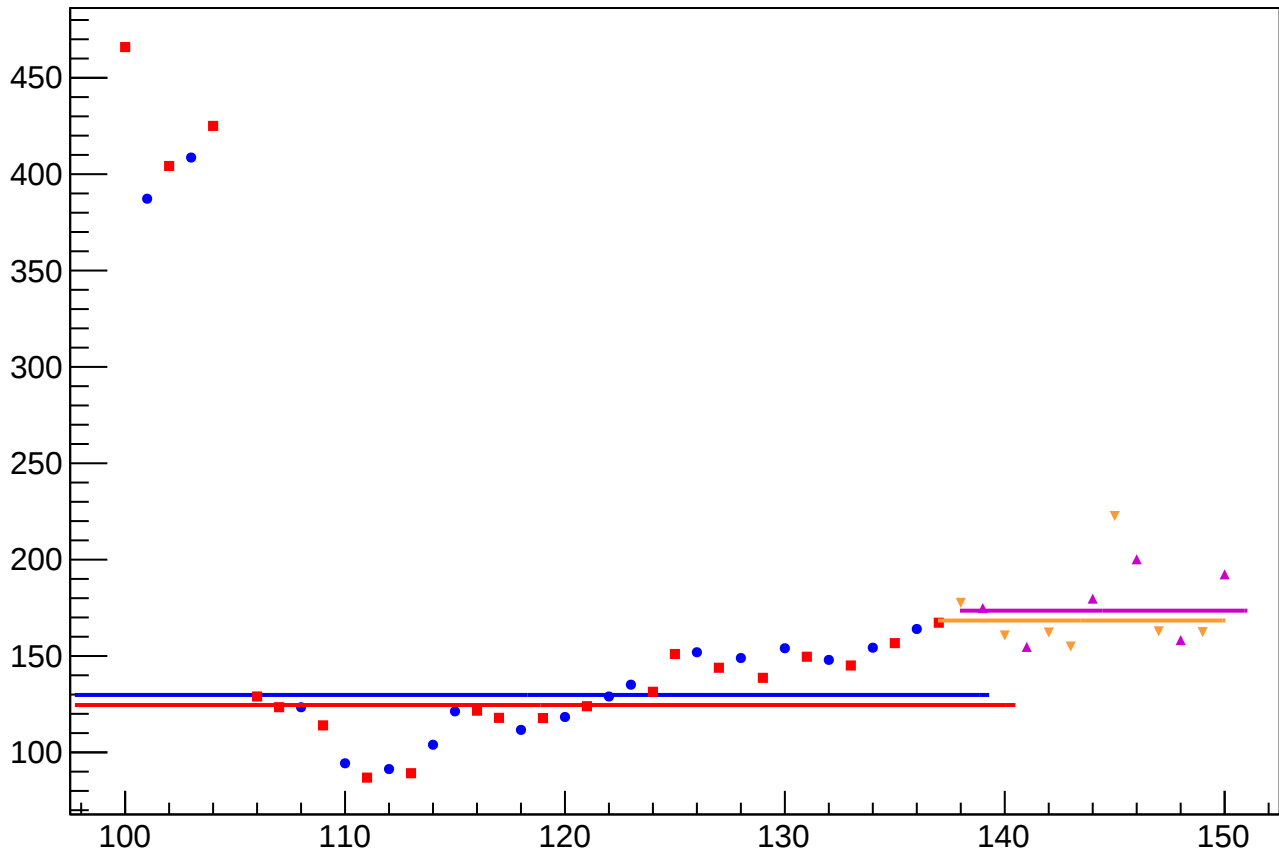
Right Out: 127923.940 $\pm$ 0.050 χ^2 /NDF: 3770107280.1/19

Left In: 129470.269 $\pm$ 0.080 χ^2 /NDF: 27117929.8/5

128519.387 $\pm$ 0.044 χ^2 /NDF: 4606713402.9/23

128364.294 $\pm$ 0.042 χ^2 /NDF: 4067608564.1/25

yield_bpm2i01WS_rms vs Slug



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 168.411 $\pm$ 0.054 χ^2 /NDF:113466.4/6

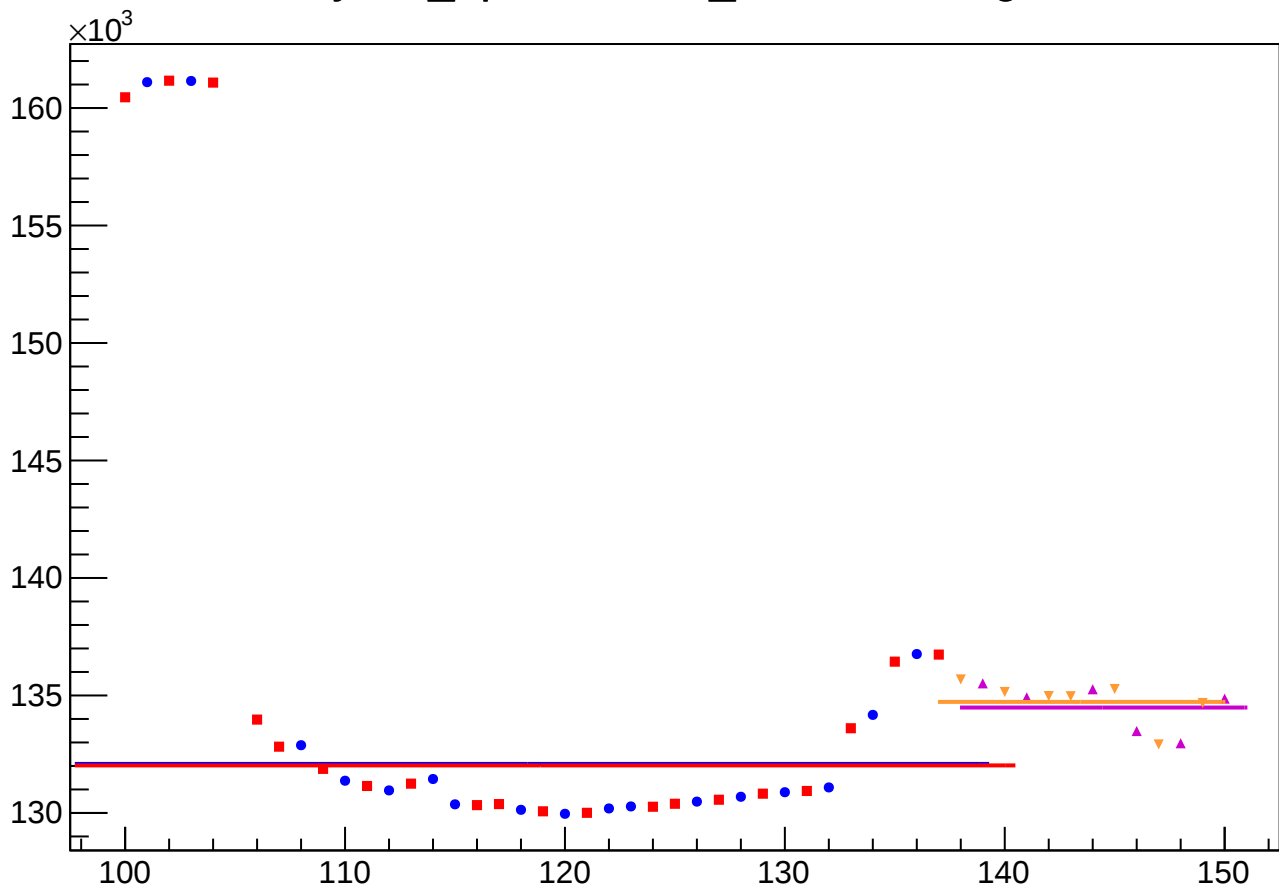
Right Out: 124.572 $\pm$ 0.035 χ^2 /NDF: 1532105.0/19

Left In: 173.524 $\pm$ 0.056 χ^2 /NDF:85986.7/5

142.679 $\pm$ 0.031 χ^2 /NDF: 1938417.6/23

138.512 $\pm$ 0.030 χ^2 /NDF: 2160017.4/25

yield_bpm2i02WS_mean vs Slug



Right In: 132086.794 $\pm$ 0.057 χ^2 /NDF: 6733230928.7/16

Left Out: 134726.478 $\pm$ 0.080 χ^2 /NDF: 118705426.7/6

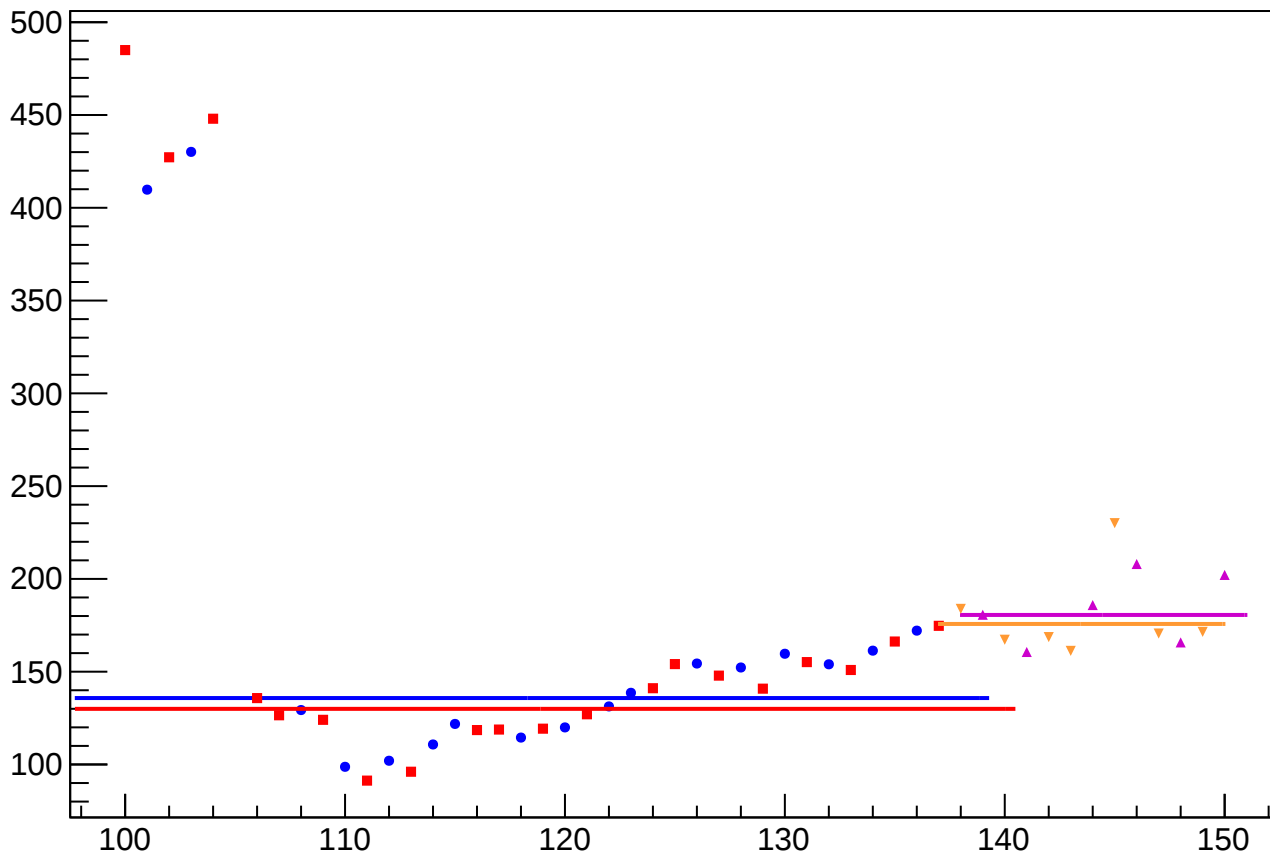
Right Out: 132023.609 $\pm$ 0.052 χ^2 /NDF: 5890492527.2/19

Left In: 134486.057 $\pm$ 0.083 χ^2 /NDF: 131390384.5/5

132969.140 $\pm$ 0.046 χ^2 /NDF: 7580900876.7/23

132726.299 $\pm$ 0.044 χ^2 /NDF: 6654270855.3/25

yield_bpm2i02WS_rms vs Slug



Right In: 135.796+/-0.040 χ^2/NDF : 1441904.9/16

Left Out: 175.724+/-0.056 χ^2/NDF :106662.8/6

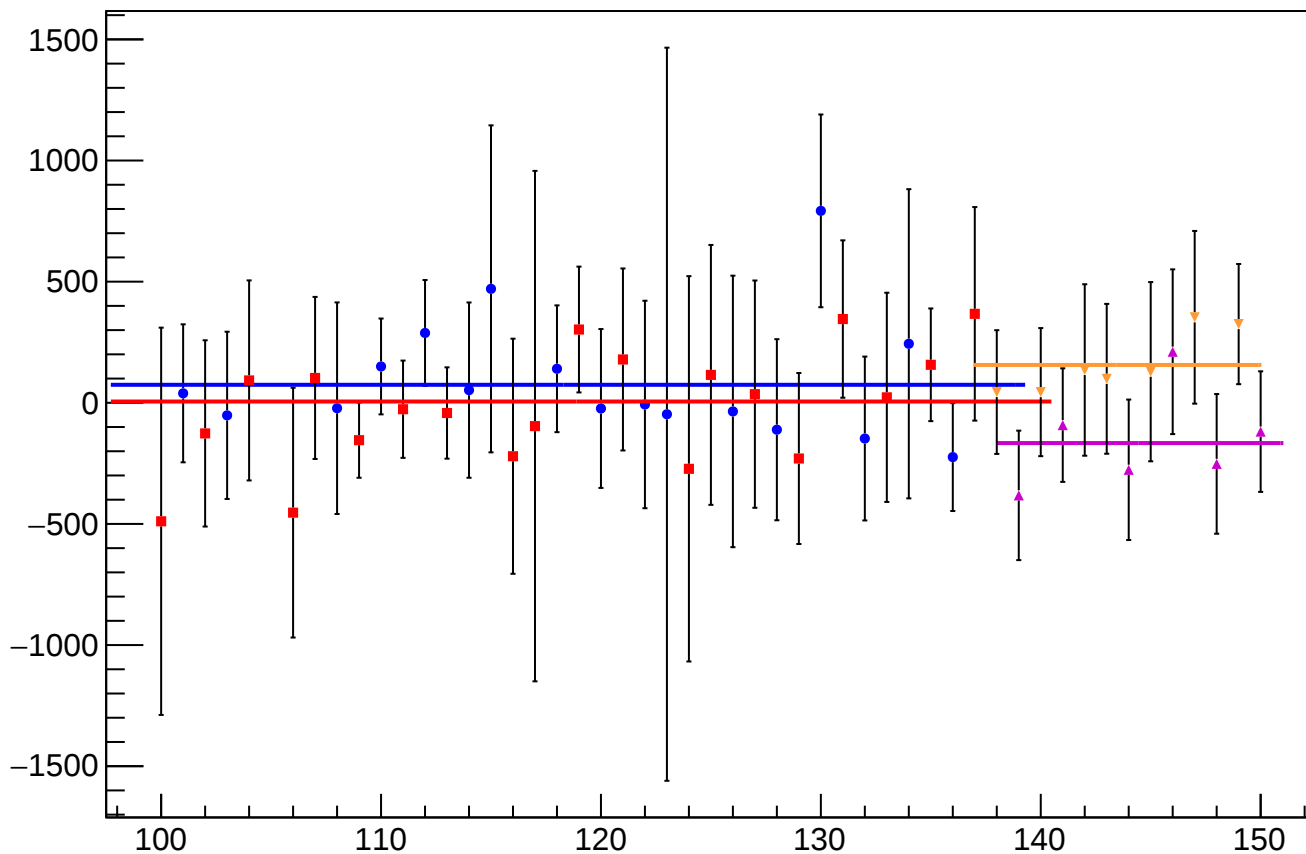
Right Out: 129.975+/-0.037 χ^2/NDF : 1504768.0/19

Left In: 180.580+/-0.059 χ^2/NDF :86777.9/5

149.143+/-0.033 χ^2/NDF : 1882140.8/23

144.416+/-0.031 χ^2/NDF : 2125689.4/25

asym_bcm_an_ds_mean vs Slug



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 156.233+/-112.144 χ^2/NDF : 1.2/6

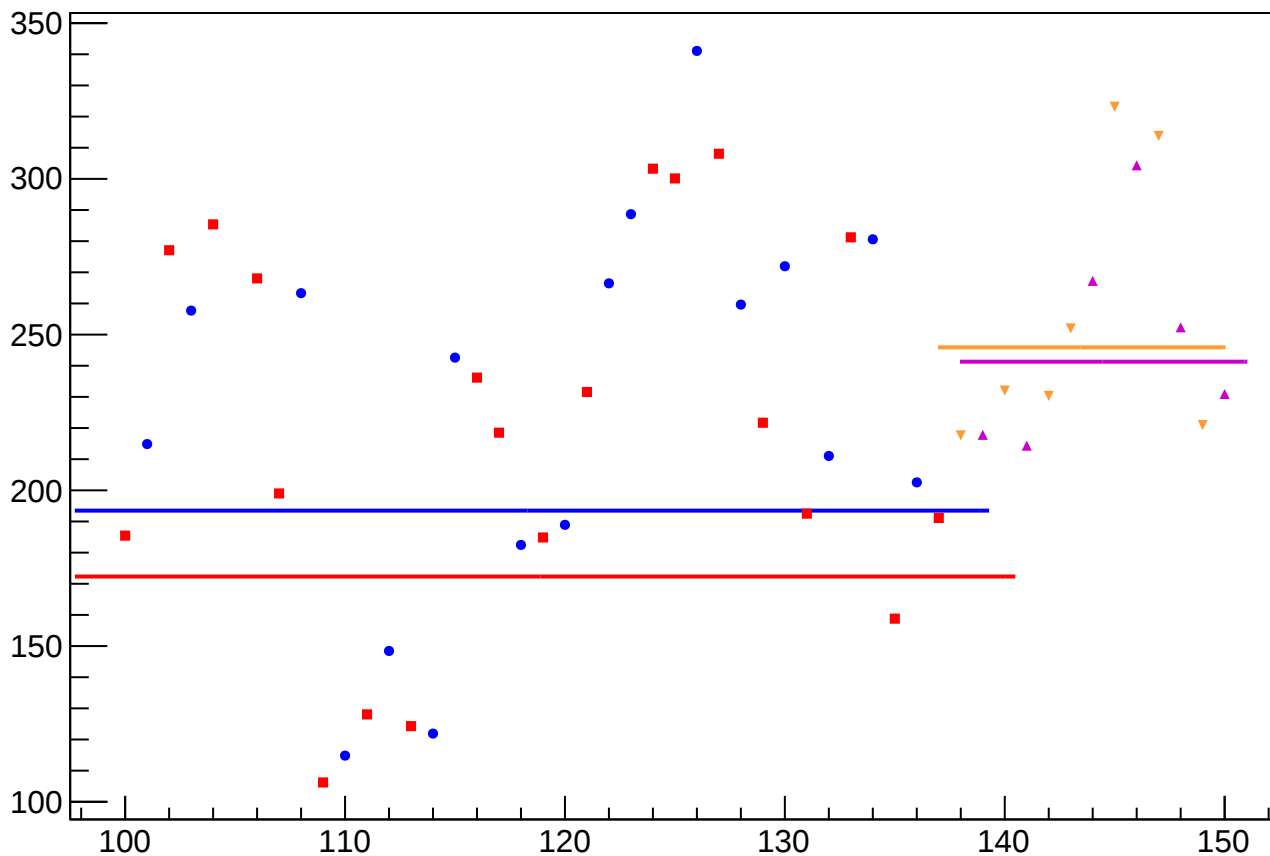
Right Out: 5.290+/-69.914 χ^2/NDF : 7.1/19

Left In: -166.192+/-111.151 χ^2/NDF : 2.3/5

101.479+/-64.594 χ^2/NDF : 9.2/23

-43.323+/-59.180 χ^2/NDF : 11.1/25

asym_bcm_an_ds_rms vs Slug



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 245.915+/-0.079 χ^2/NDF :214693.1/6

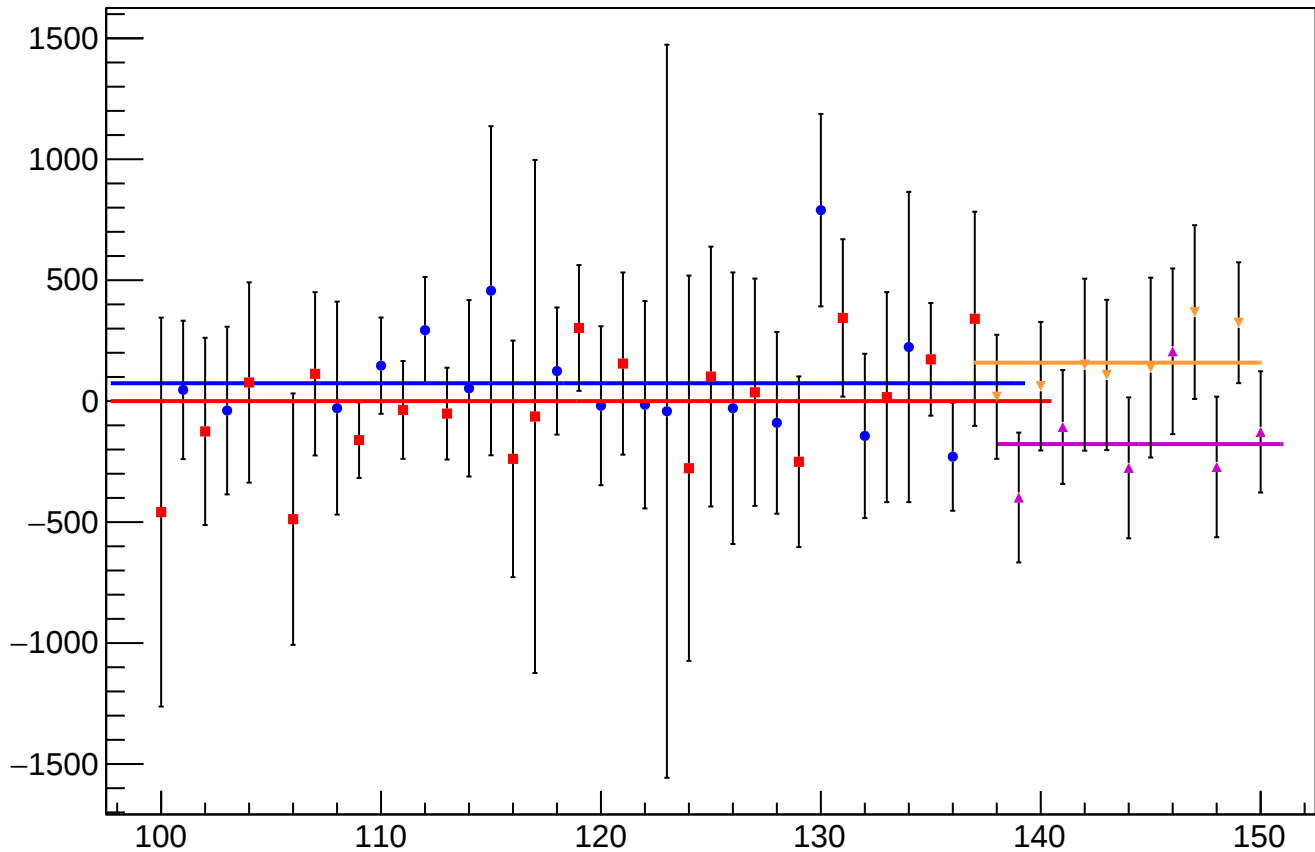
Right Out: 172.327+/-0.049 χ^2/NDF : 1583701.4/19

Left In: 241.304+/-0.079 χ^2/NDF :133095.4/5

210.881+/-0.046 χ^2/NDF : 1523983.3/23

191.881+/-0.042 χ^2/NDF : 2268664.8/25

asym_bcm_an_ds3_mean vs Slug



Right In: 74.098+/-79.404 χ^2/NDF : 7.6/16

Left Out: 159.194+/-112.742 χ^2/NDF : 1.2/6

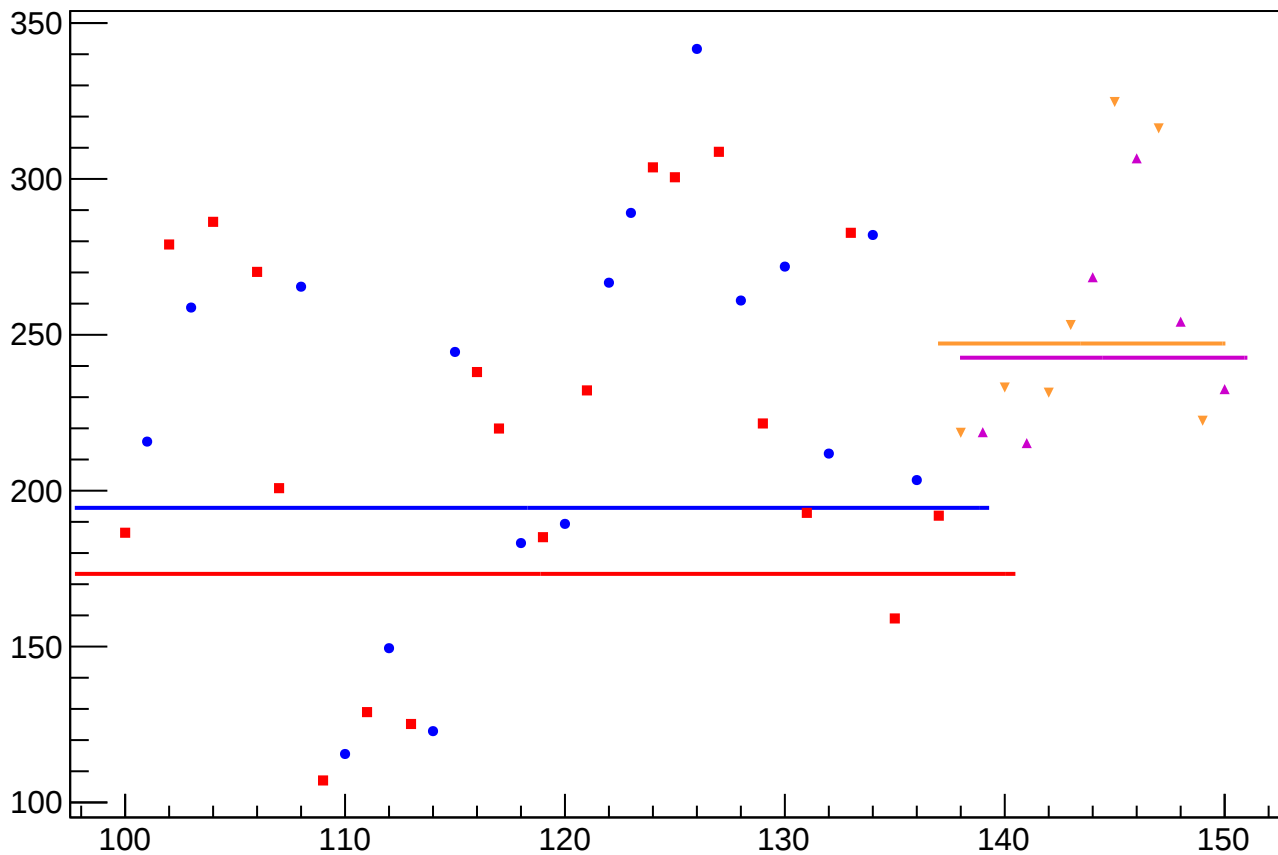
Right Out: 0.223+/-70.282 χ^2/NDF : 7.3/19

Left In: -177.436+/-111.787 χ^2/NDF : 2.3/5

102.313+/-64.919 χ^2/NDF : 9.2/23

-50.108+/-59.499 χ^2/NDF : 11.4/25

asym_bcm_an_ds3_rms vs Slug



Right In: 194.496+/-0.056 χ^2/NDF : 1008514.7/16

Left Out: 247.210+/-0.080 χ^2/NDF :215649.8/6

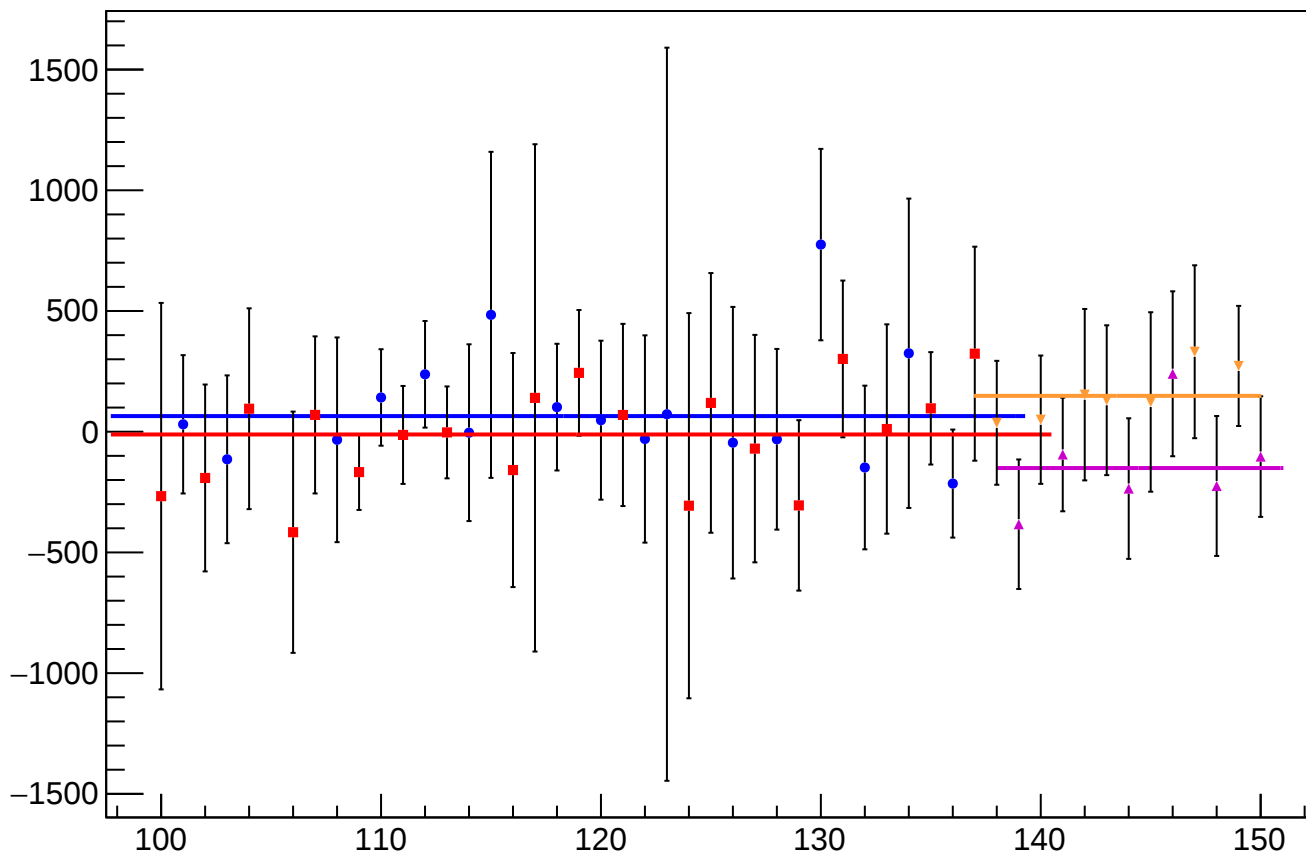
Right Out: 173.317+/-0.050 χ^2/NDF : 1571258.4/19

Left In: 242.657+/-0.079 χ^2/NDF :134764.3/5

211.974+/-0.046 χ^2/NDF : 1516423.5/23

192.961+/-0.042 χ^2/NDF : 2257532.5/25

asym_bcm_an_us_mean vs Slug



Right In: 64.733 ± 79.399 χ^2/NDF : 7.0/16

Left Out: 148.554 ± 112.605 χ^2/NDF : 0.8/6

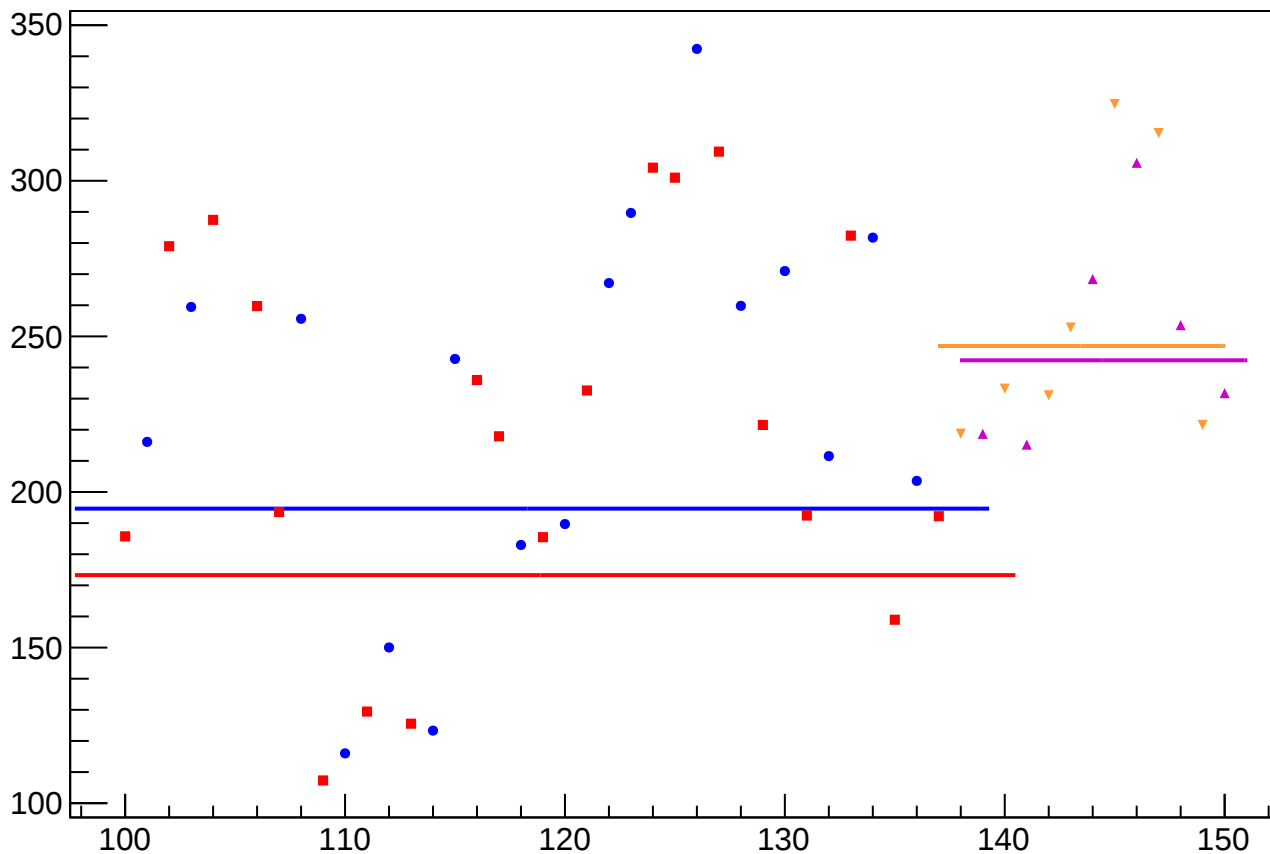
Right Out: -11.414 ± 70.204 χ^2/NDF : 5.8/19

Left In: -150.466 ± 111.618 χ^2/NDF : 2.3/5

92.568 ± 64.890 χ^2/NDF : 8.2/23

-50.830 ± 59.426 χ^2/NDF : 9.2/25

asym_bcm_an_us_rms vs Slug



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 246.915+/-0.080 χ^2/NDF : 215487.5/6

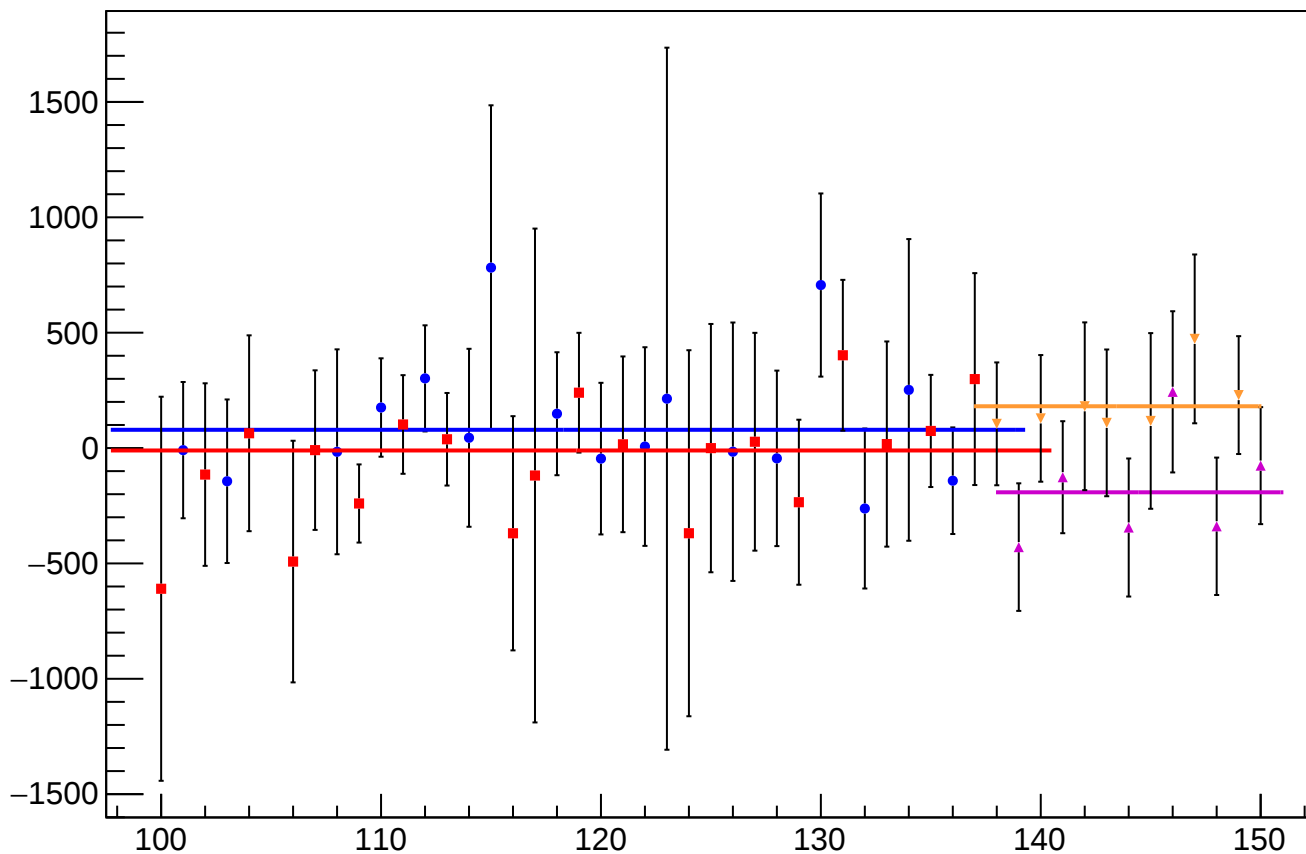
Right Out: 173.289+/-0.050 χ^2/NDF : 1548162.6/19

Left In: 242.313+/-0.079 χ^2/NDF : 133771.7/5

212.007+/-0.046 χ^2/NDF : 1490048.5/23

192.854+/-0.042 χ^2/NDF : 2229954.9/25

asym_bcm_dg_us_mean vs Slug



Right In: 79.128 $\pm$ 81.874 χ^2/NDF : 7.5/16

Left Out: 181.129 $\pm$ 115.821 χ^2/NDF : 0.9/6

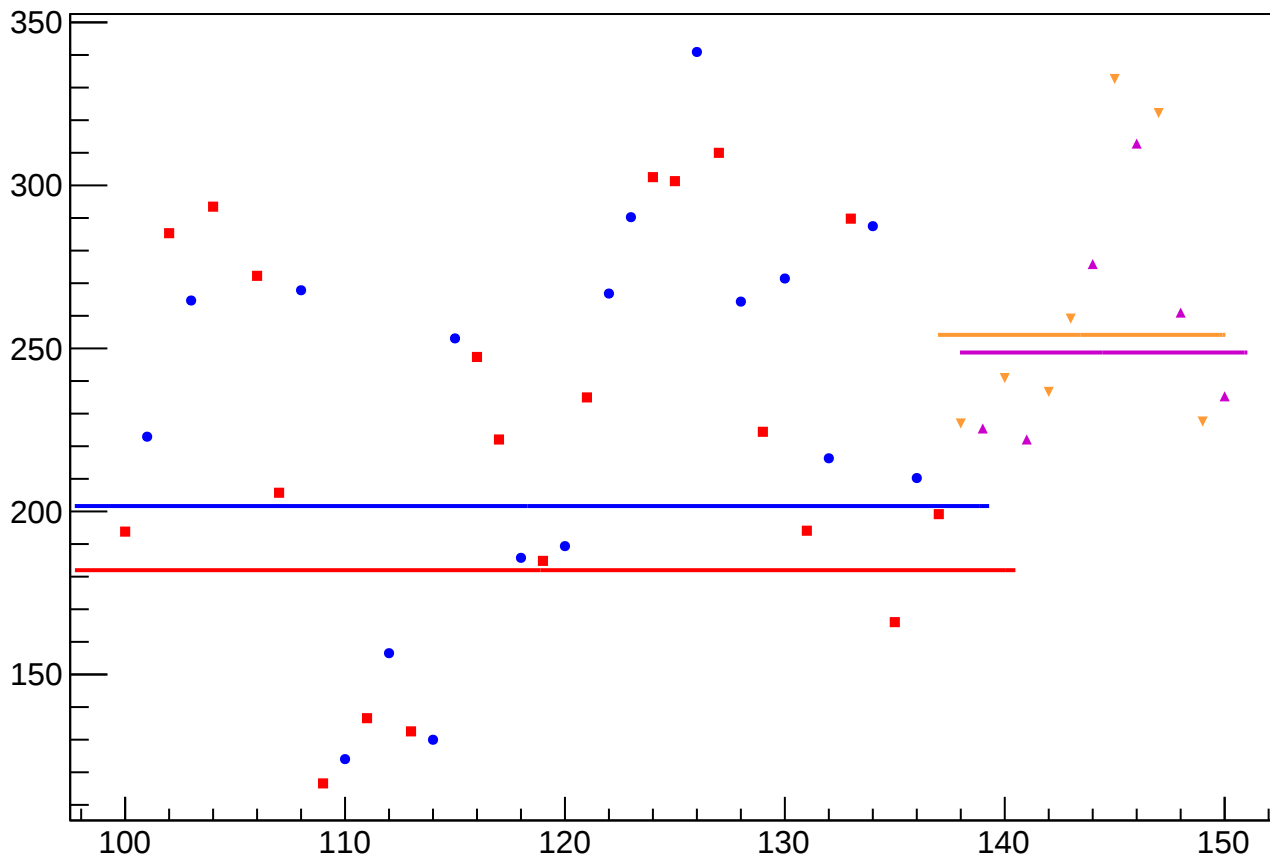
Right Out: -10.491 $\pm$ 73.139 χ^2/NDF : 7.9/19

Left In: -191.742 $\pm$ 114.510 χ^2/NDF : 3.1/5

113.116 $\pm$ 66.857 χ^2/NDF : 8.9/23

-63.008 $\pm$ 61.639 χ^2/NDF : 12.7/25

asym_bcm_dg_us_rms vs Slug



Right In: 201.654 $\pm$ 0.058 χ^2/NDF : 883179.7/16

Left Out: 254.157 $\pm$ 0.082 χ^2/NDF :206461.3/6

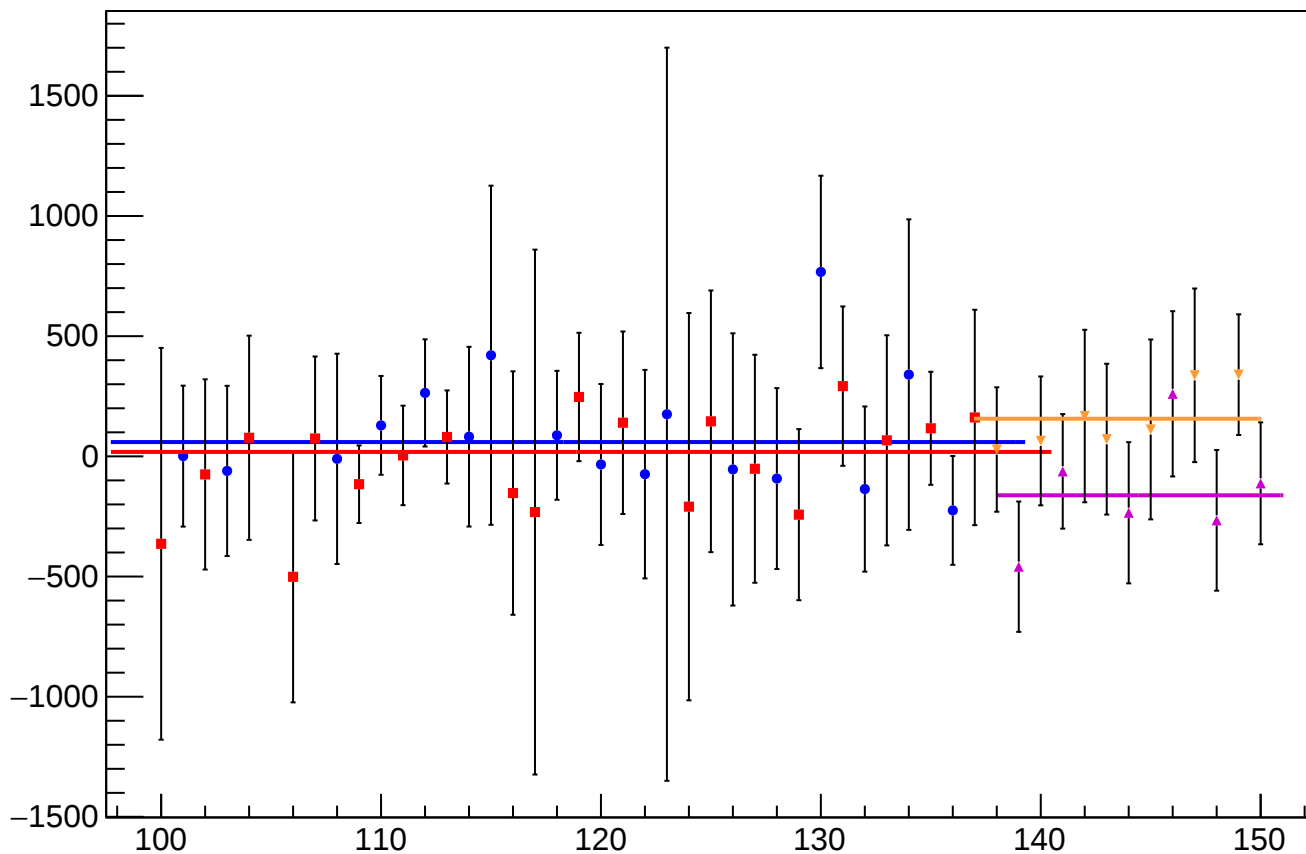
Right Out: 181.986 $\pm$ 0.052 χ^2/NDF : 1380269.0/19

Left In: 248.746 $\pm$ 0.081 χ^2/NDF :131108.5/5

219.148 $\pm$ 0.047 χ^2/NDF : 1363676.3/23

201.329 $\pm$ 0.044 χ^2/NDF : 1994213.9/25

asym_bcm_dg_ds_mean vs Slug



Right In: 59.496 +/- 80.808 χ^2/NDF : 7.0/16

Left Out: 156.631 +/- 113.634 χ^2/NDF : 1.2/6

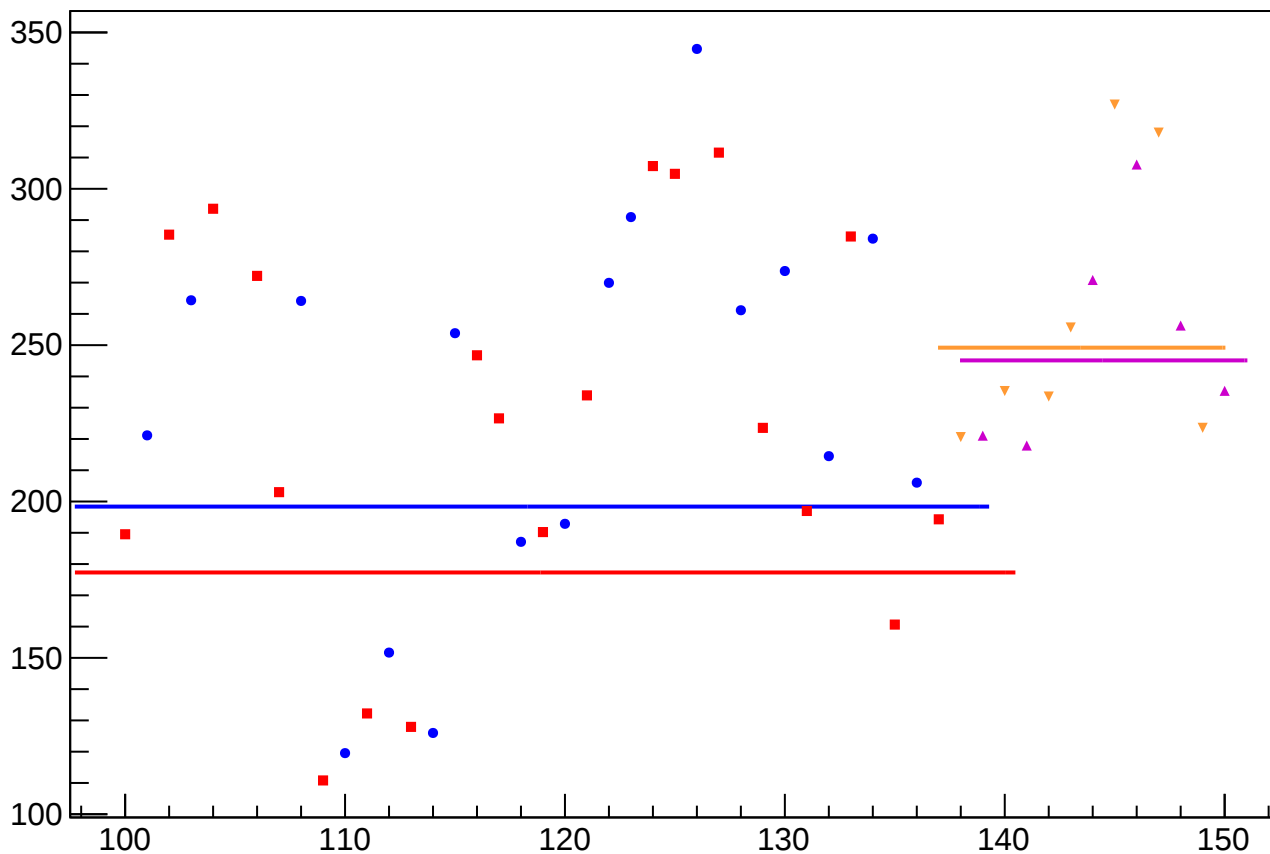
Right Out: 18.457 +/- 71.711 χ^2/NDF : 4.8/19

Left In: -161.968 +/- 112.873 χ^2/NDF : 3.1/5

92.119 +/- 65.855 χ^2/NDF : 8.7/23

-33.427 +/- 60.528 χ^2/NDF : 9.7/25

asym_bcm_dg_ds_rms vs Slug



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 249.200+/-0.080 χ^2/NDF : 214103.8/6

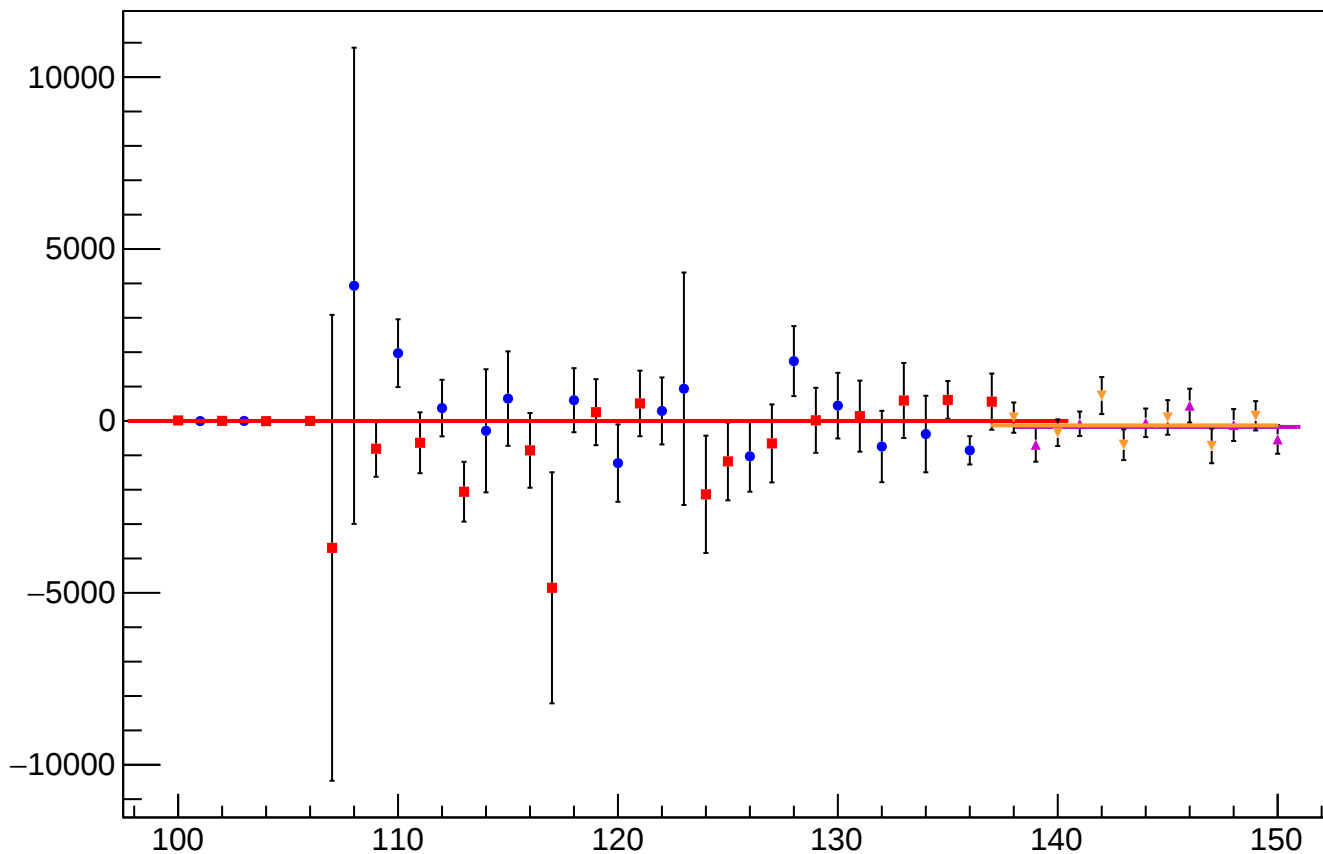
Right Out: 177.309+/-0.051 χ^2/NDF : 1528855.2/19

Left In: 245.125+/-0.080 χ^2/NDF : 129481.9/5

215.447+/-0.047 χ^2/NDF : 1443467.8/23

196.811+/-0.043 χ^2/NDF : 2172675.4/25

asym_cav4bQ_mean vs Slug



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -129.365 ± 172.082 χ^2/NDF : 6.8/6

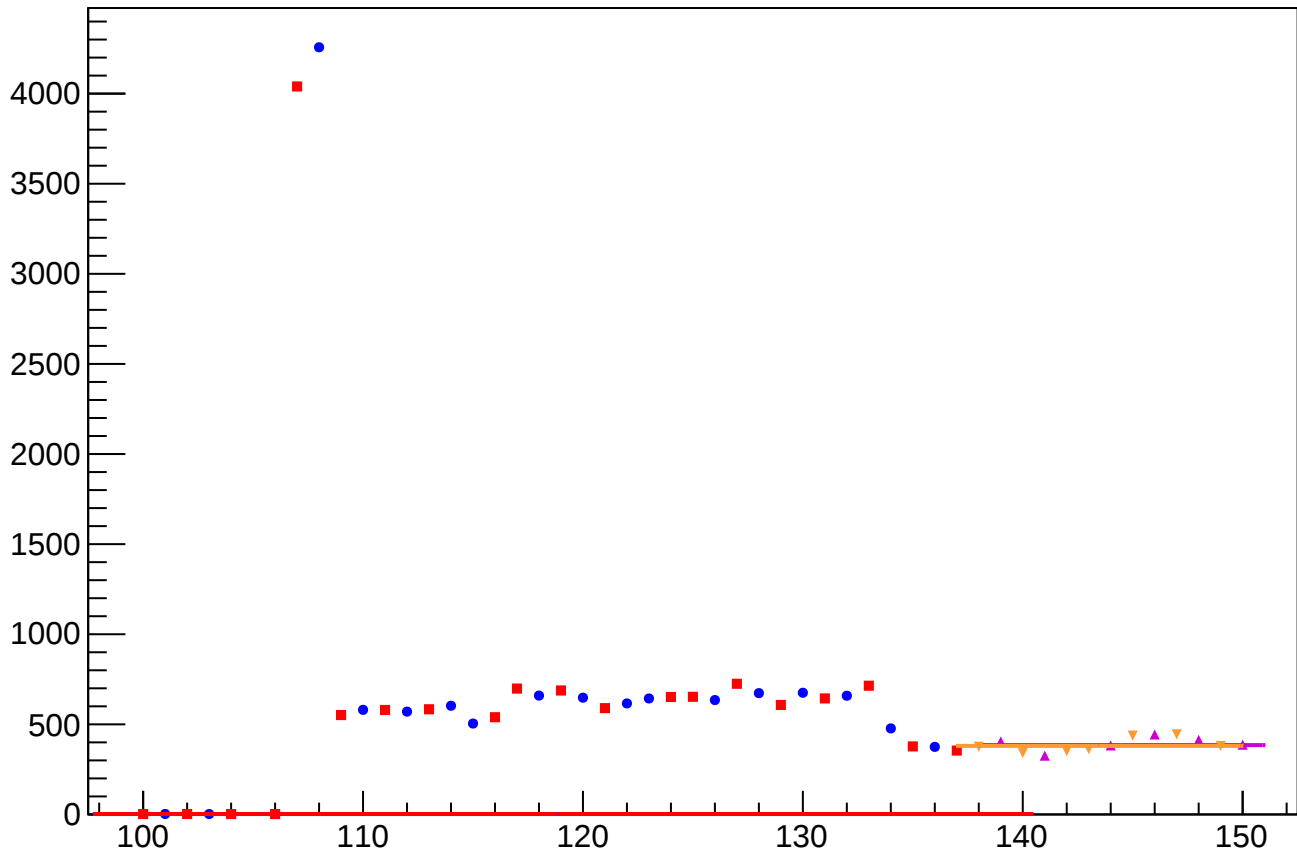
Right Out: -0.728 ± 2.111 χ^2/NDF : 21.4/19

Left In: -173.828 ± 175.961 χ^2/NDF : 3.6/5

-1.551 ± 2.251 χ^2/NDF : 24.3/23

-0.753 ± 2.111 χ^2/NDF : 26.0/25

asym_cav4bQ_rms vs Slug



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 380.427+/-0.122 χ^2/NDF :88220.7/6

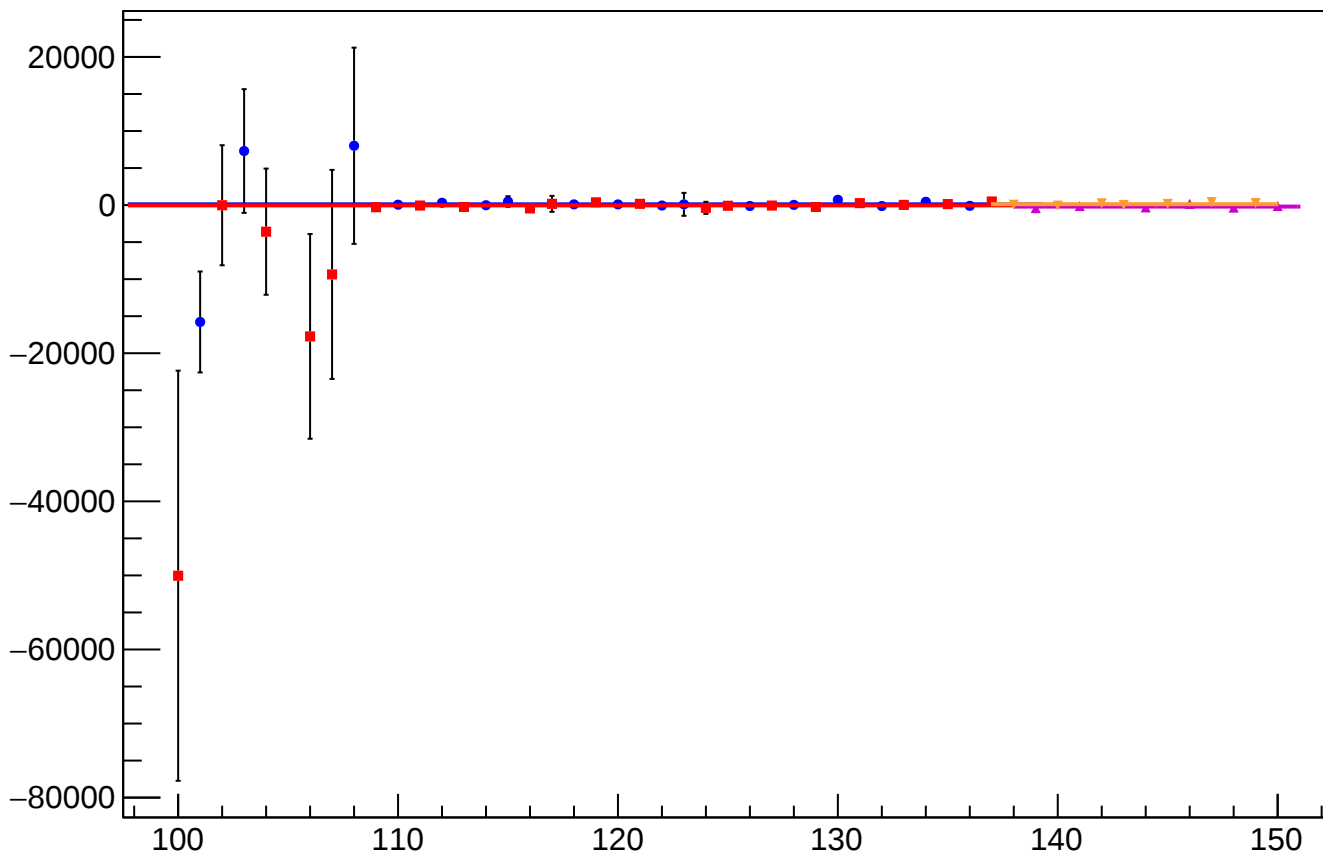
2.521+/-0.002 χ^2/NDF : 20583261.9/23

Right Out: 2.437+/-0.001 χ^2/NDF : 11233207.9/19

2.492+/-0.001 χ^2/NDF : 20775453.0/25

Left In: 384.917+/-0.124 χ^2/NDF :93972.6/5

asym_cav4cQ_mean vs Slug



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: 120.799+/-119.588 χ^2/NDF : 1.6/6

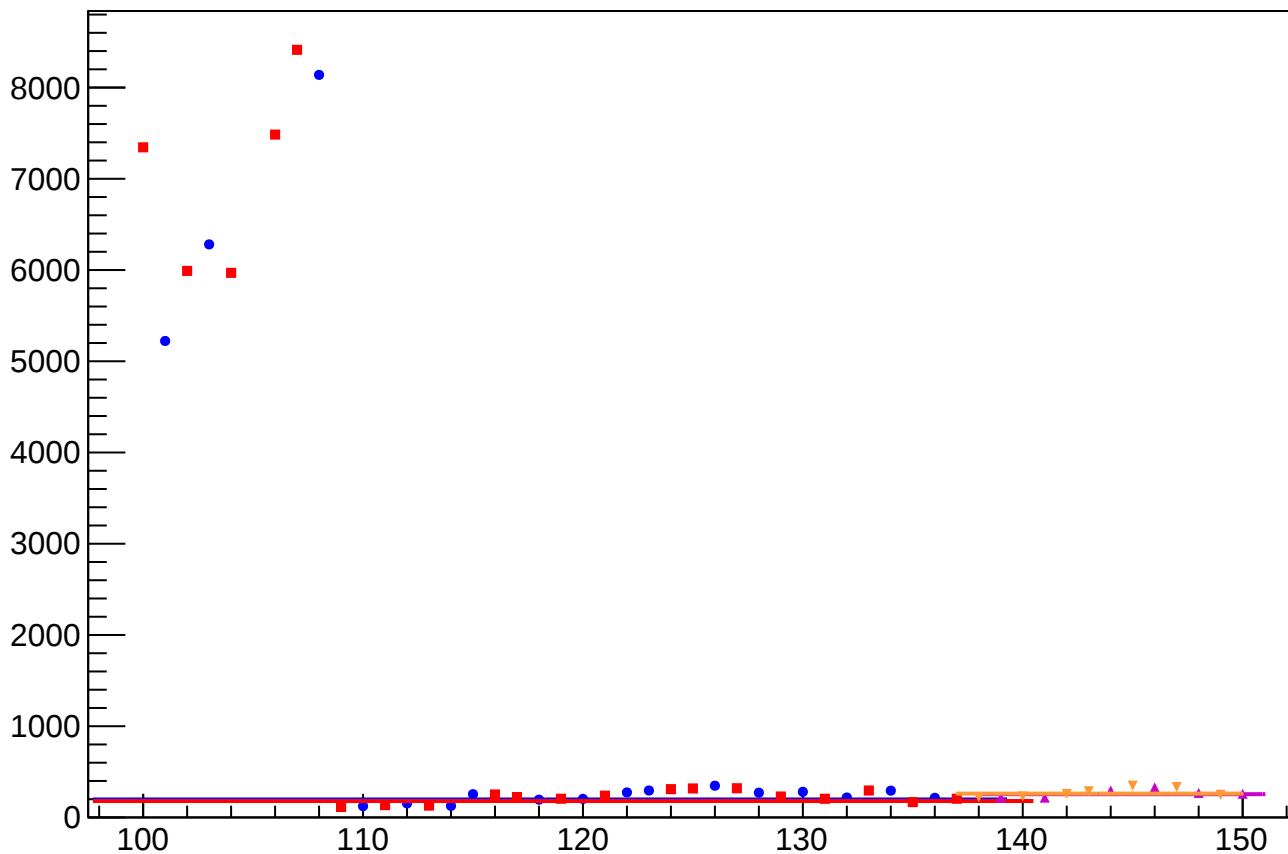
Right Out: -41.024+/-84.237 χ^2/NDF : 13.9/19

Left In: -202.217+/-117.948 χ^2/NDF : 2.1/5

106.752+/-72.347 χ^2/NDF : 13.5/23

-95.471+/-68.550 χ^2/NDF : 17.3/25

asym_cav4cQ_rms vs Slug



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 261.520+/-0.085 χ^2/NDF : 260112.4/6

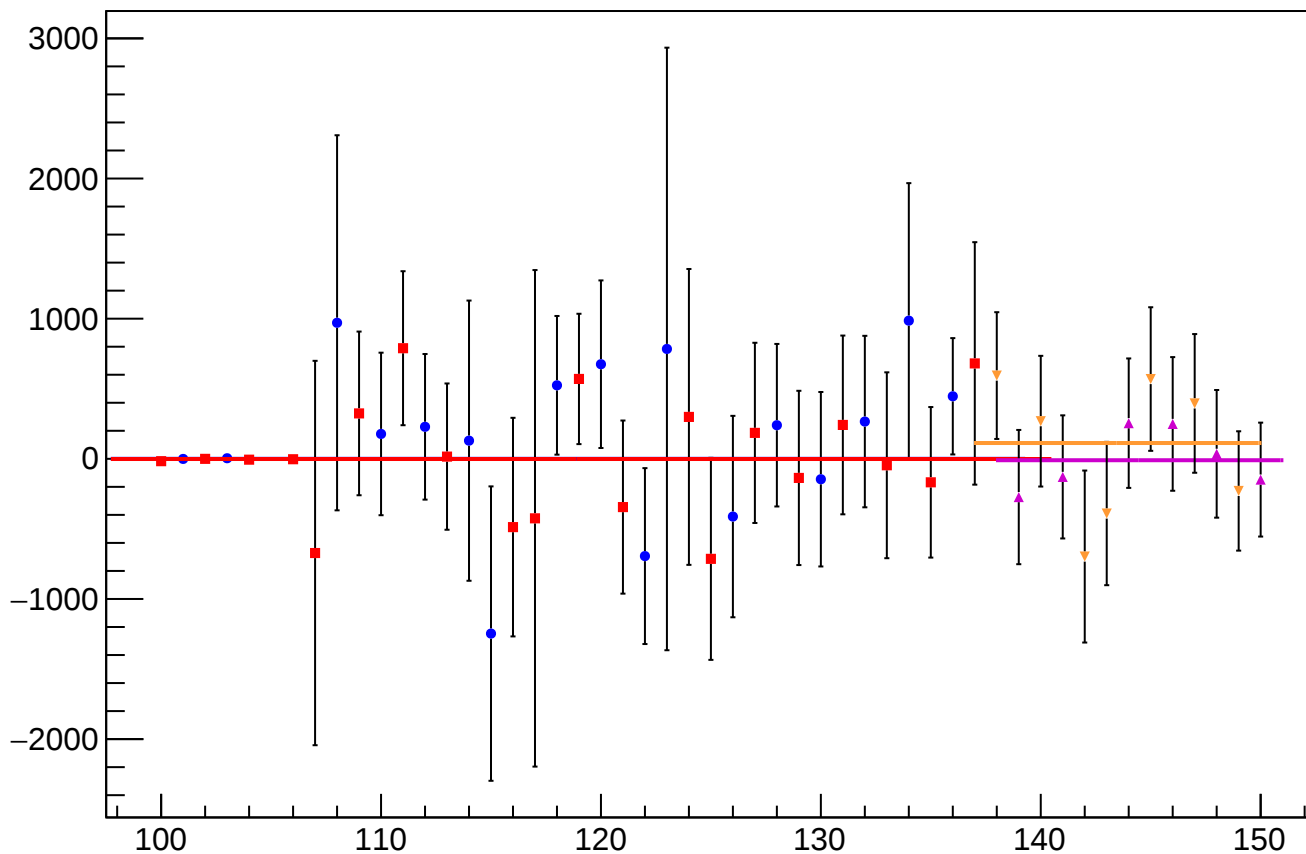
Right Out: 180.217+/-0.060 χ^2/NDF : 4324457.3/19

Left In: 255.078+/-0.083 χ^2/NDF : 205939.2/5

220.668+/-0.051 χ^2/NDF : 4321838.6/23

205.503+/-0.048 χ^2/NDF : 5063936.4/25

asym_cav4dQ_mean vs Slug



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: 112.784 ± 184.493 χ^2/NDF : 5.7/6

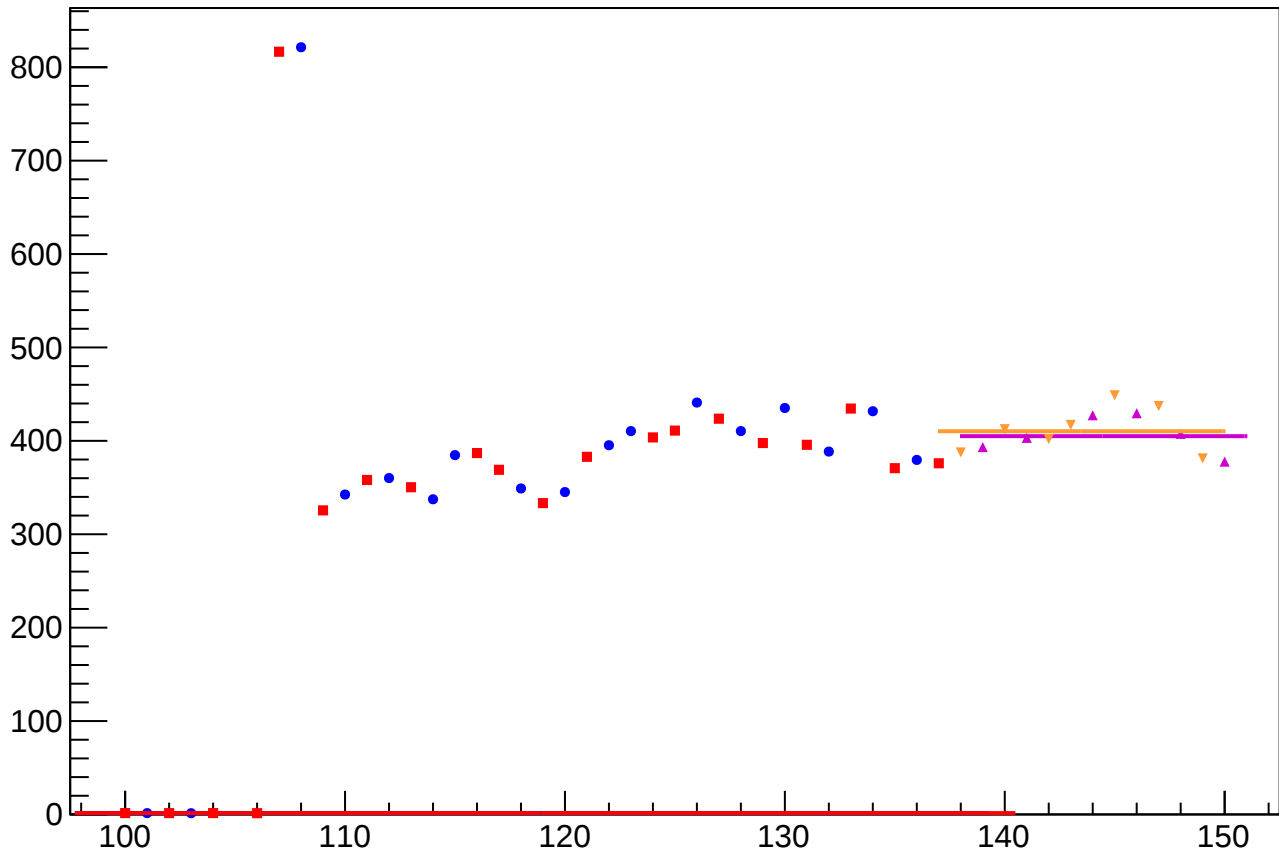
Right Out: -1.324 ± 1.623 χ^2/NDF : 9.7/19

Left In: -10.044 ± 184.107 χ^2/NDF : 1.1/5

-0.128 ± 1.737 χ^2/NDF : 15.8/23

-1.324 ± 1.622 χ^2/NDF : 10.8/25

asym_cav4dQ_rms vs Slug



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 410.262+/-0.130 χ^2/NDF : 32361.3/6

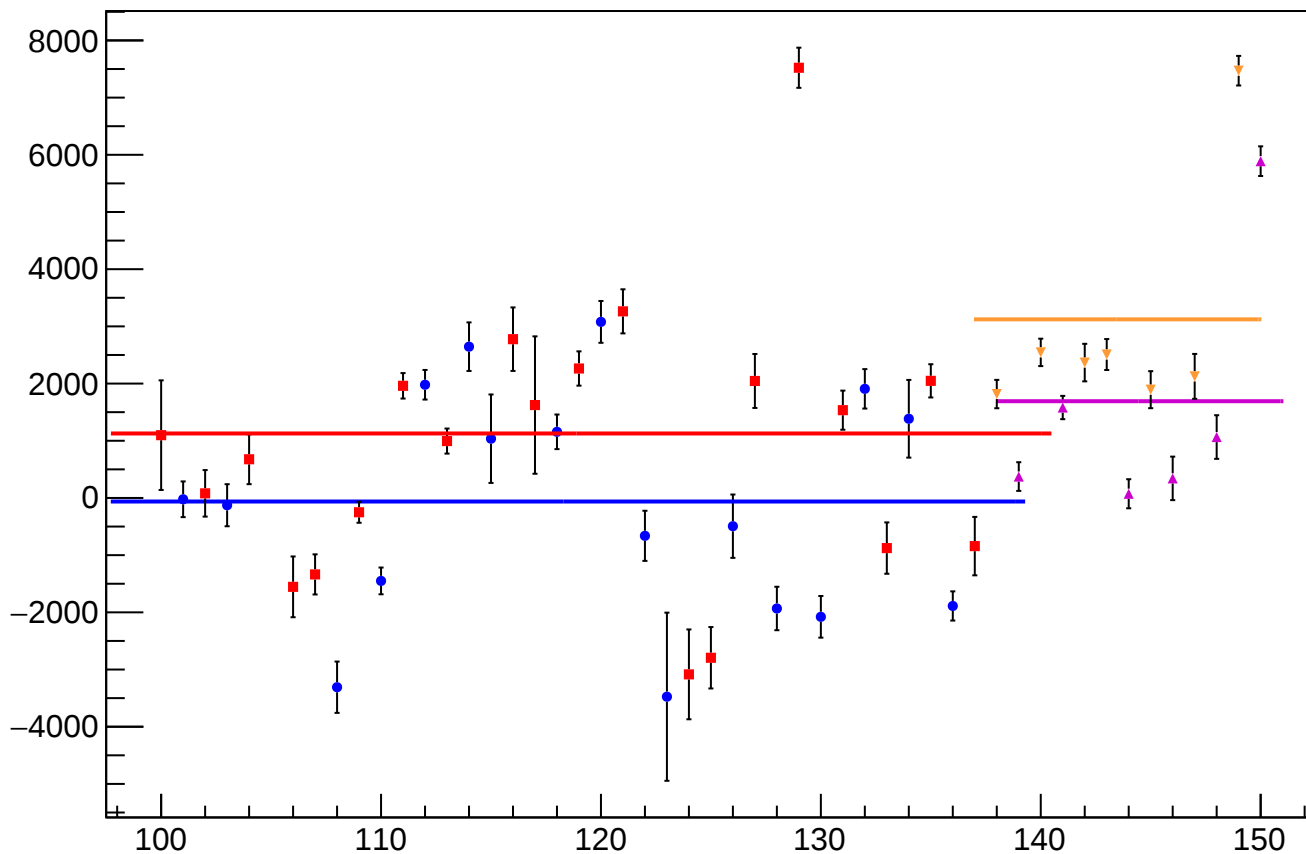
Right Out: 1.451+/-0.001 χ^2/NDF : 10966832.6/19

Left In: 405.006+/-0.130 χ^2/NDF : 20279.5/5

1.489+/-0.001 χ^2/NDF : 20809457.7/23

1.483+/-0.001 χ^2/NDF : 20595776.9/25

asym_bcm0l02_mean vs Slug



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 3123.159 ± 106.846 χ^2/NDF : 347.3/6

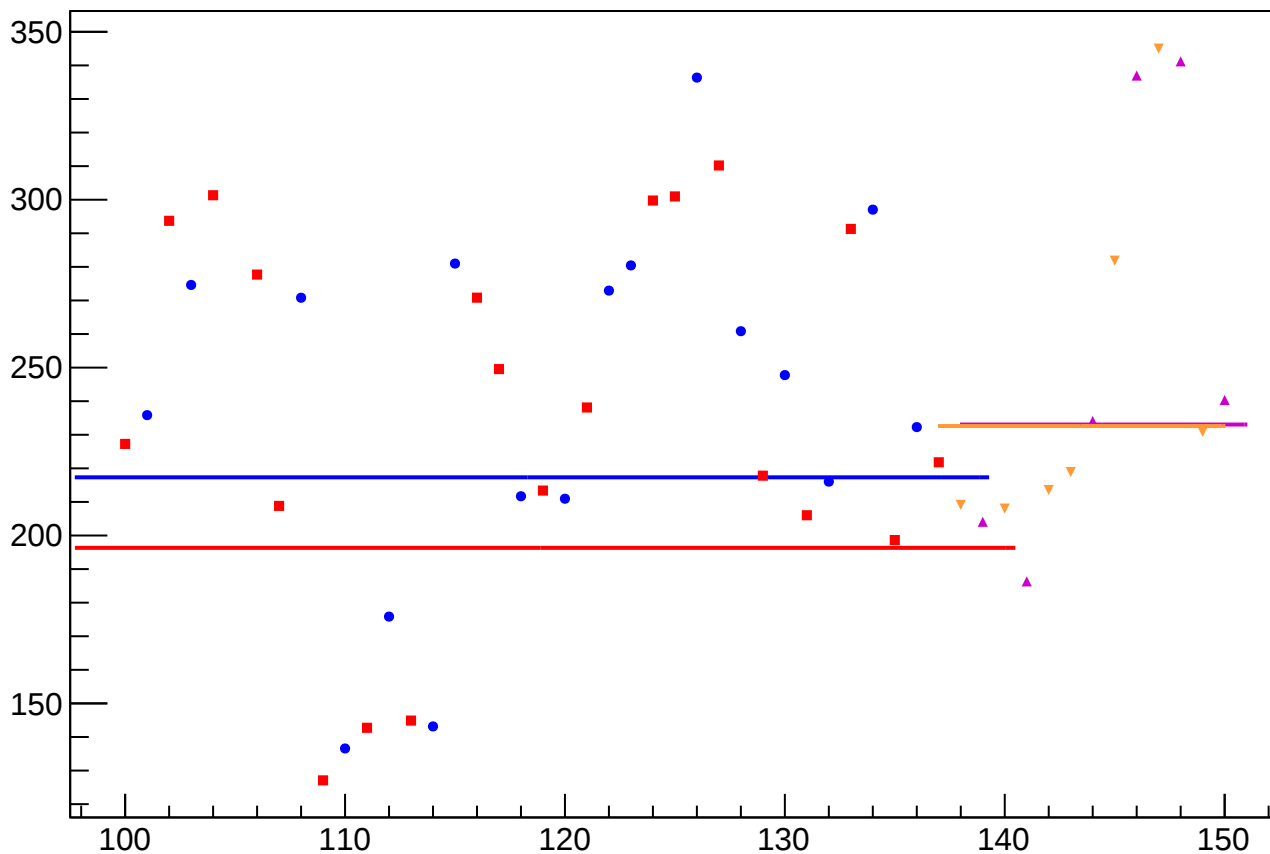
Right Out: 1127.552 ± 78.203 χ^2/NDF : 671.4/19

Left In: 1691.583 ± 109.005 χ^2/NDF : 345.4/5

1215.188 ± 67.661 χ^2/NDF : 1313.6/23

1319.212 ± 63.542 χ^2/NDF : 1034.5/25

asym_bcm0l02_rms vs Slug



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 232.598+/-0.076 χ^2/NDF : 261291.2/6

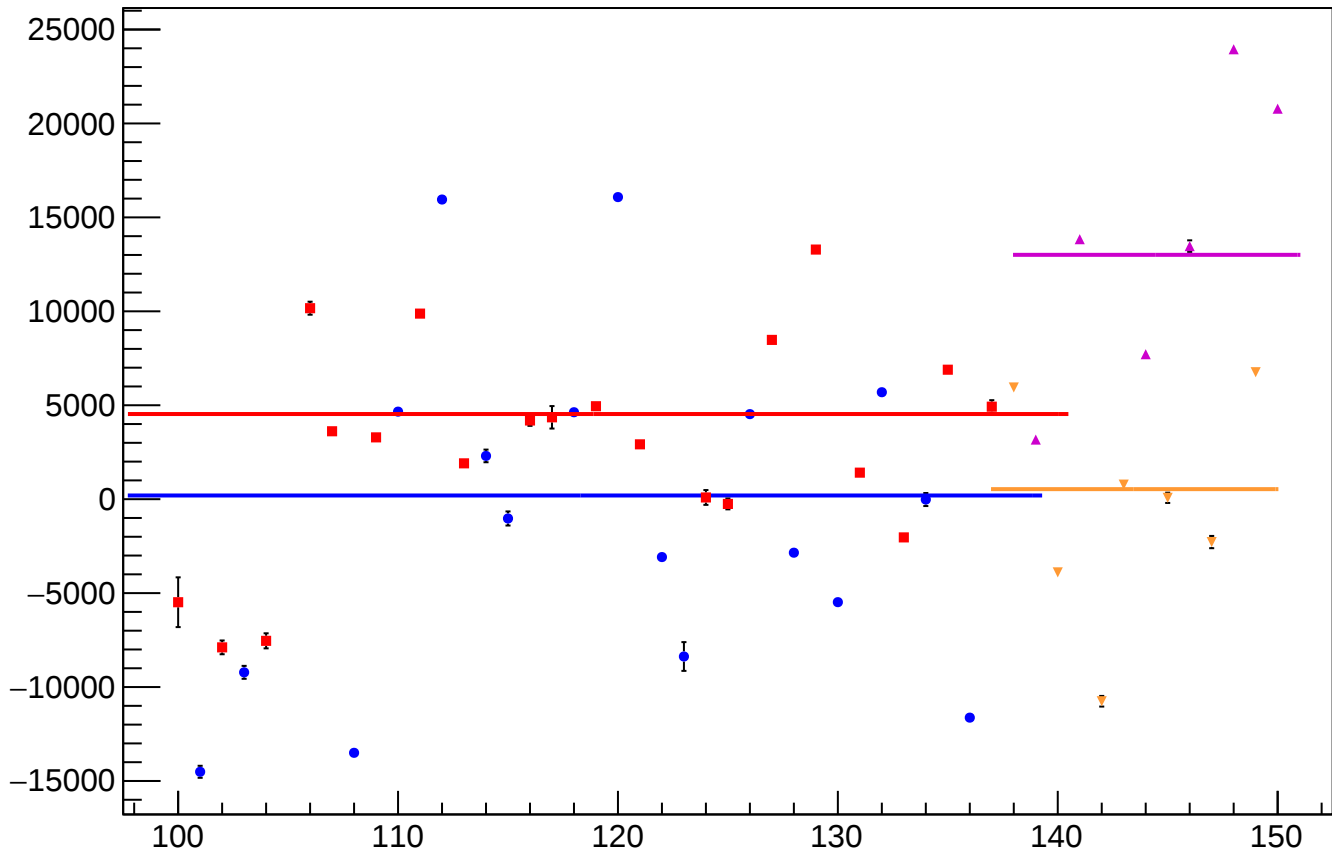
223.453+/-0.048 χ^2/NDF : 938477.1/23

Right Out: 196.332+/-0.055 χ^2/NDF : 1194678.0/19

208.809+/-0.045 χ^2/NDF : 1788223.3/25

Left In: 233.050+/-0.077 χ^2/NDF : 443721.3/5

asym_bpm0i02WS_mean vs Slug



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: 534.777+/-91.505 χ^2/NDF : 3593.6/6

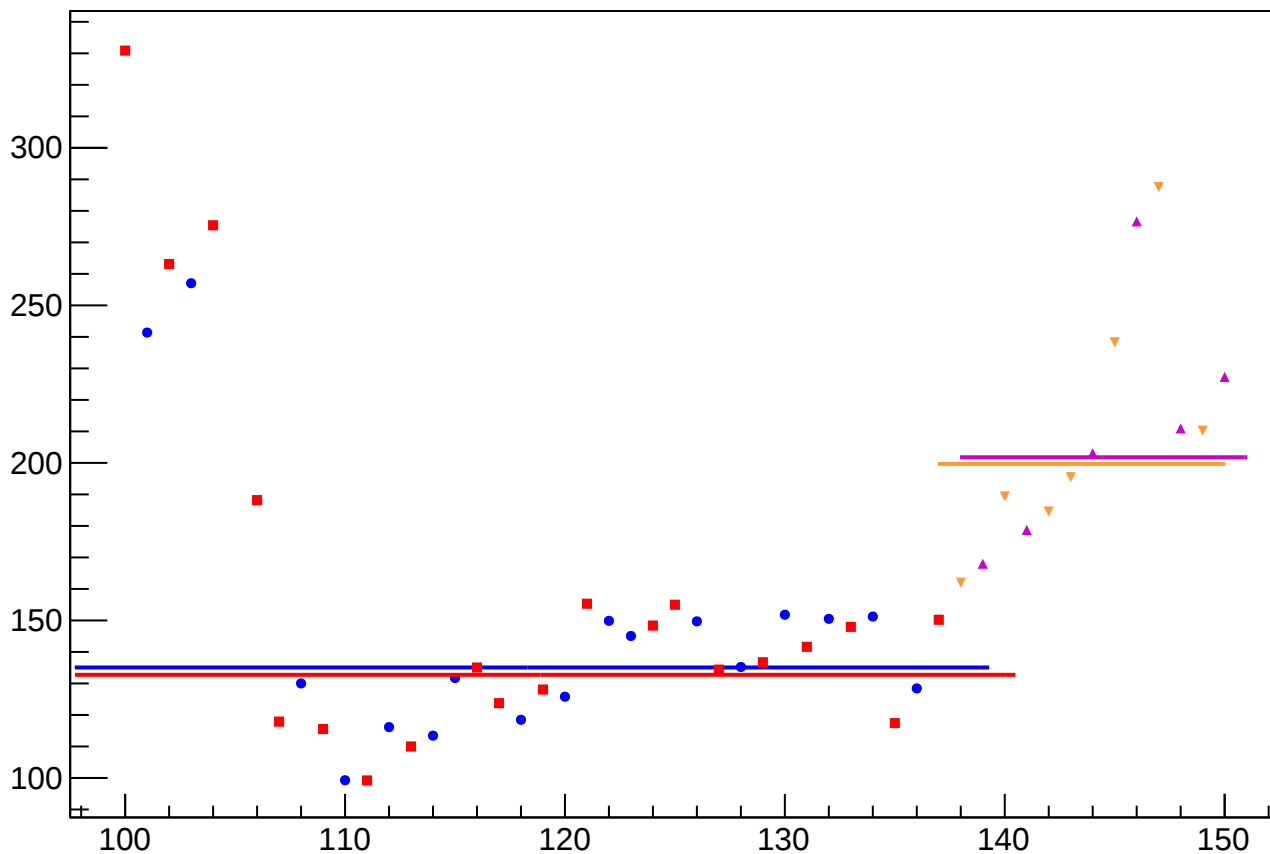
Right Out: 4532.856+/-52.261 χ^2/NDF : 7477.3/19

Left In: 13006.402+/-93.559 χ^2/NDF : 5882.9/5

286.167+/-47.013 χ^2/NDF : 34261.9/23

6548.003+/-45.626 χ^2/NDF : 19612.2/25

asym_bpm0i02WS_rms vs Slug



Right In: 135.072 ± 0.039 χ^2/NDF : 658703.5/16

Left Out: 199.686 ± 0.065 χ^2/NDF : 278513.3/6

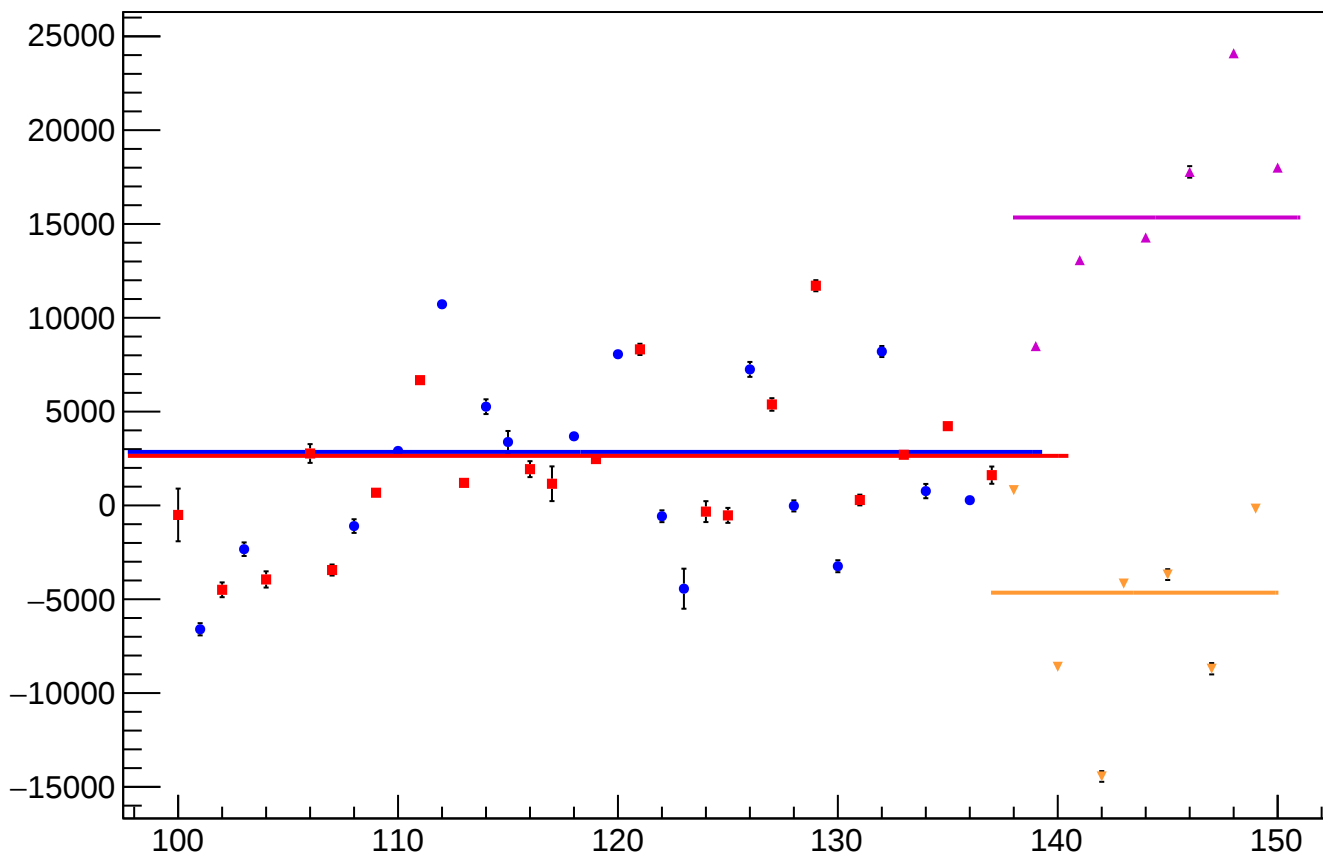
Right Out: 132.747 ± 0.037 χ^2/NDF : 831647.2/19

Left In: 201.795 ± 0.066 χ^2/NDF : 224851.8/5

152.128 ± 0.033 χ^2/NDF : 1671221.3/23

149.168 ± 0.032 χ^2/NDF : 1886758.9/25

asym_bpm0i02aWS_mean vs Slug



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -4649.754+/-91.699 χ^2/NDF : 2844.6/6

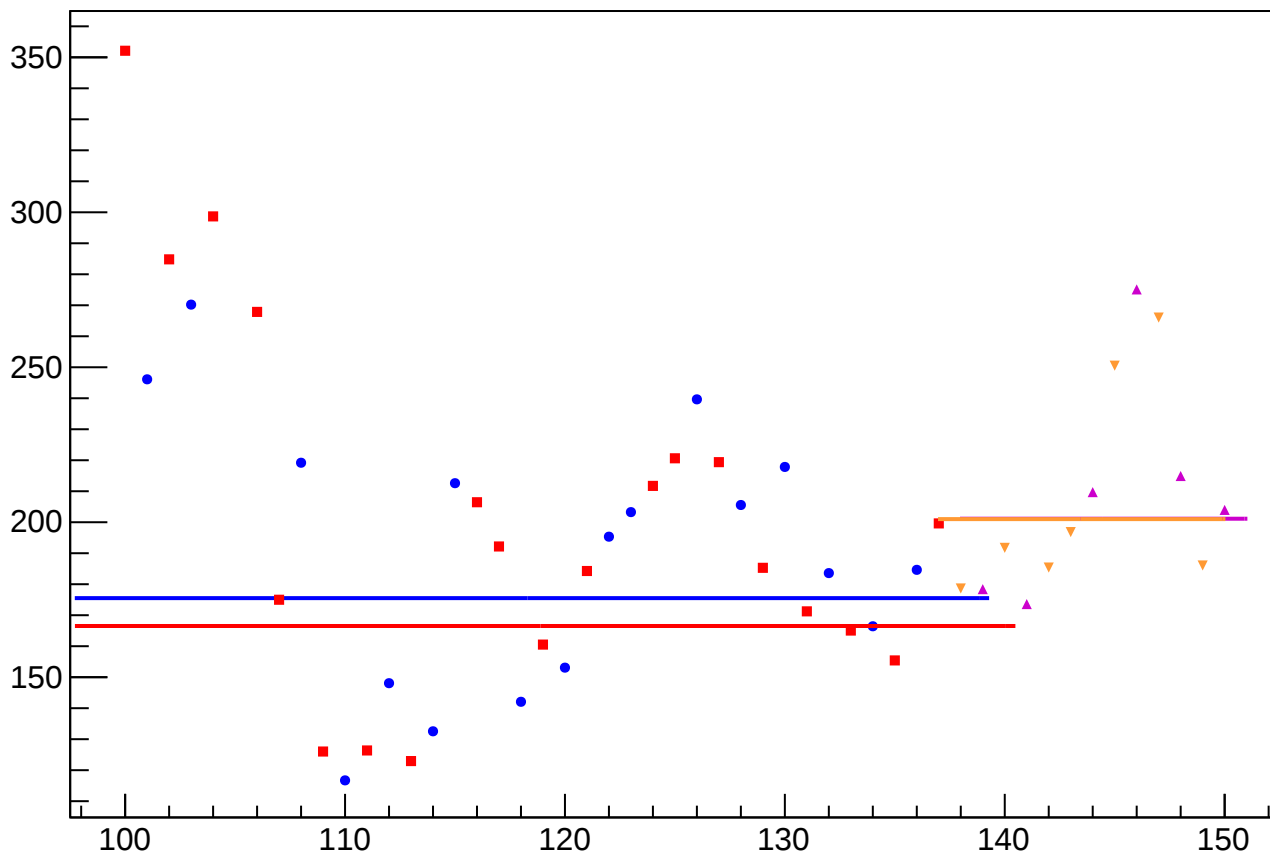
Right Out: 2641.642+/-65.566 χ^2/NDF : 3178.3/19

Left In: 15346.210+/-92.839 χ^2/NDF : 2640.5/5

52.174+/-56.017 χ^2/NDF : 11217.3/23

6869.464+/-53.556 χ^2/NDF : 18313.5/25

asym_bpm0i02aWS_rms vs Slug



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 201.008+/-0.065 χ^2/NDF :195118.2/6

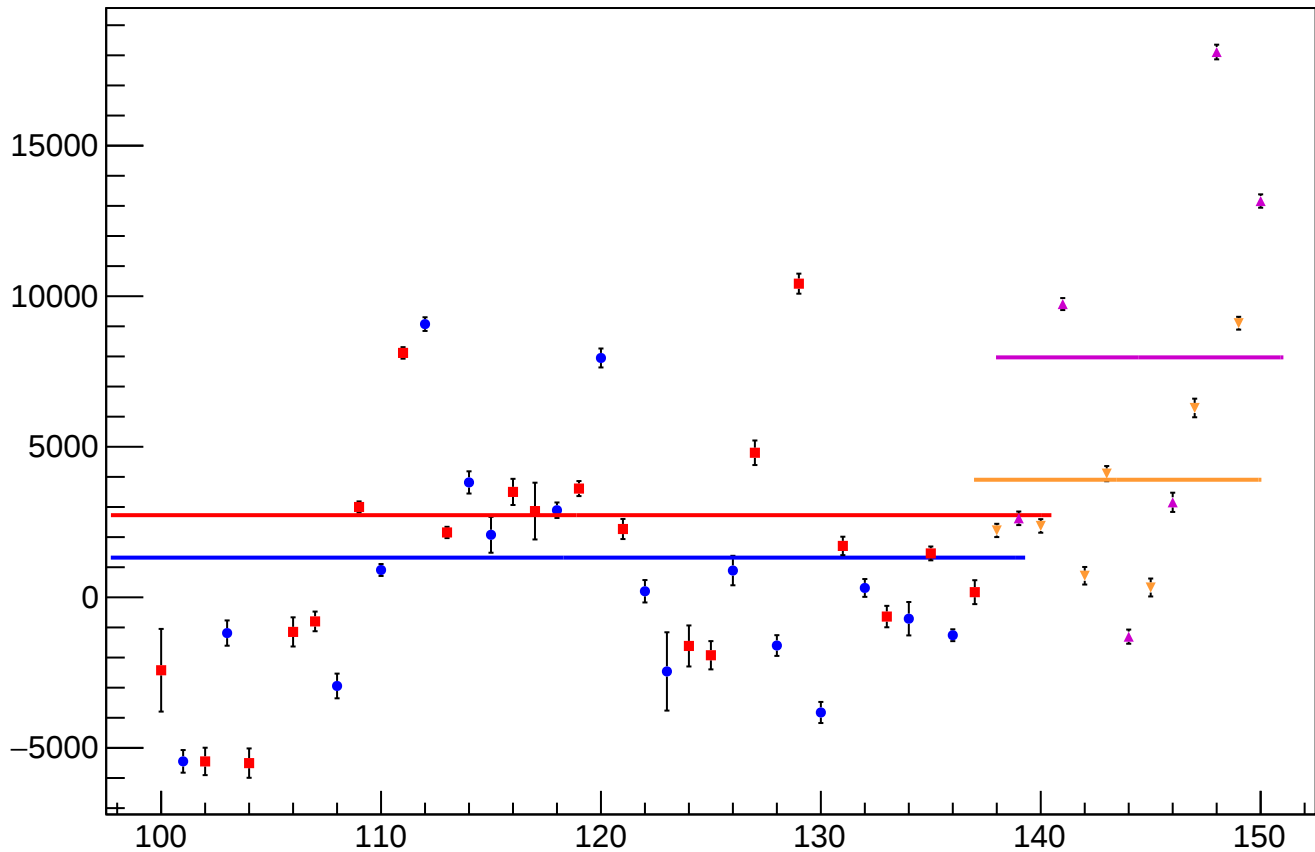
Right Out: 166.522+/-0.046 χ^2/NDF : 931079.9/19

Left In: 201.135+/-0.066 χ^2/NDF :189500.5/5

185.028+/-0.040 χ^2/NDF : 981661.9/23

178.041+/-0.038 χ^2/NDF : 1306065.1/25

asym_bpm0i05WS_mean vs Slug



Right In: 1319.009 ± 77.146 χ^2/NDF : 2667.0/16

Left Out: 3905.031 ± 94.709 χ^2/NDF : 1023.6/6

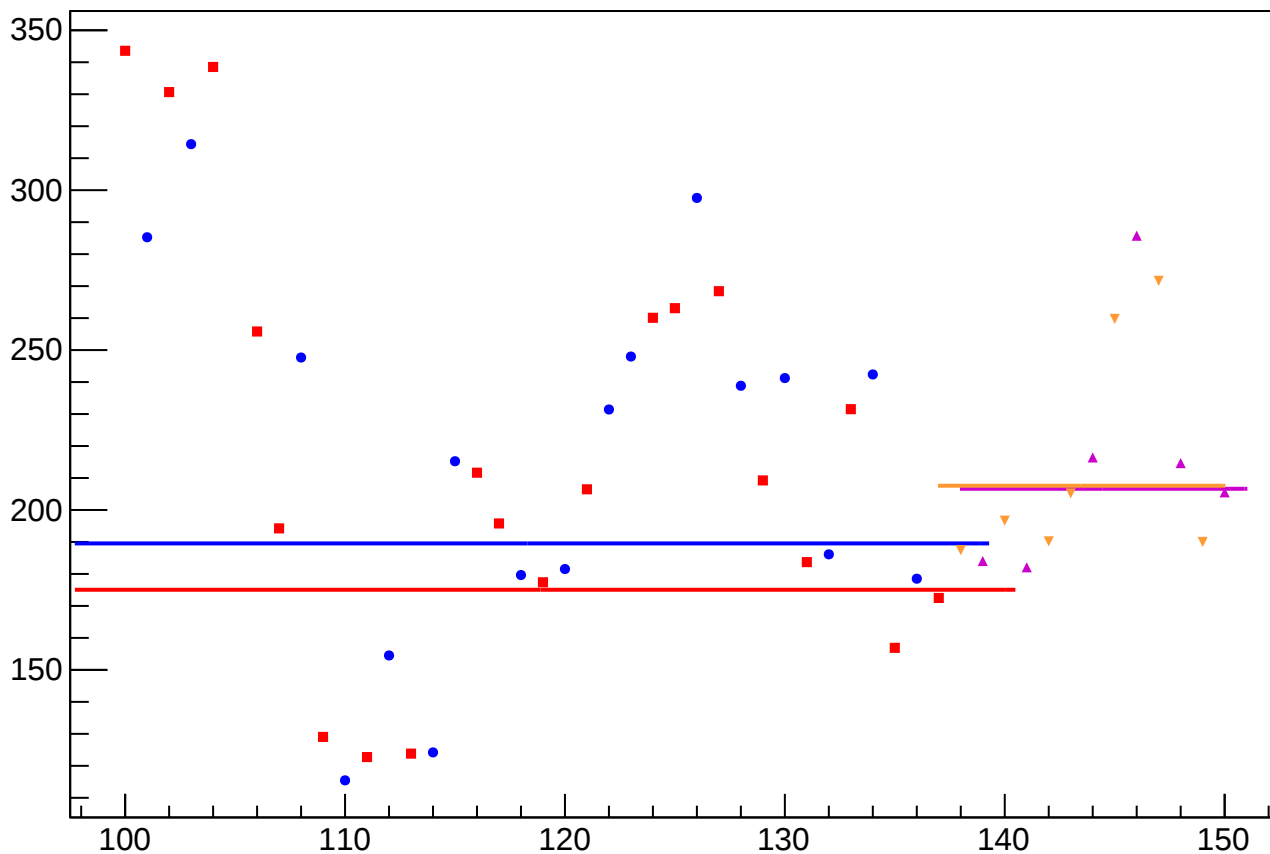
Right Out: 2728.550 ± 69.837 χ^2/NDF : 2495.9/19

Left In: 7969.050 ± 95.367 χ^2/NDF : 4702.9/5

2350.463 ± 59.814 χ^2/NDF : 4138.8/23

4557.830 ± 56.345 χ^2/NDF : 9164.4/25

asym_bpm0i05WS_rms vs Slug



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 207.587+/-0.067 χ^2/NDF : 189657.2/6

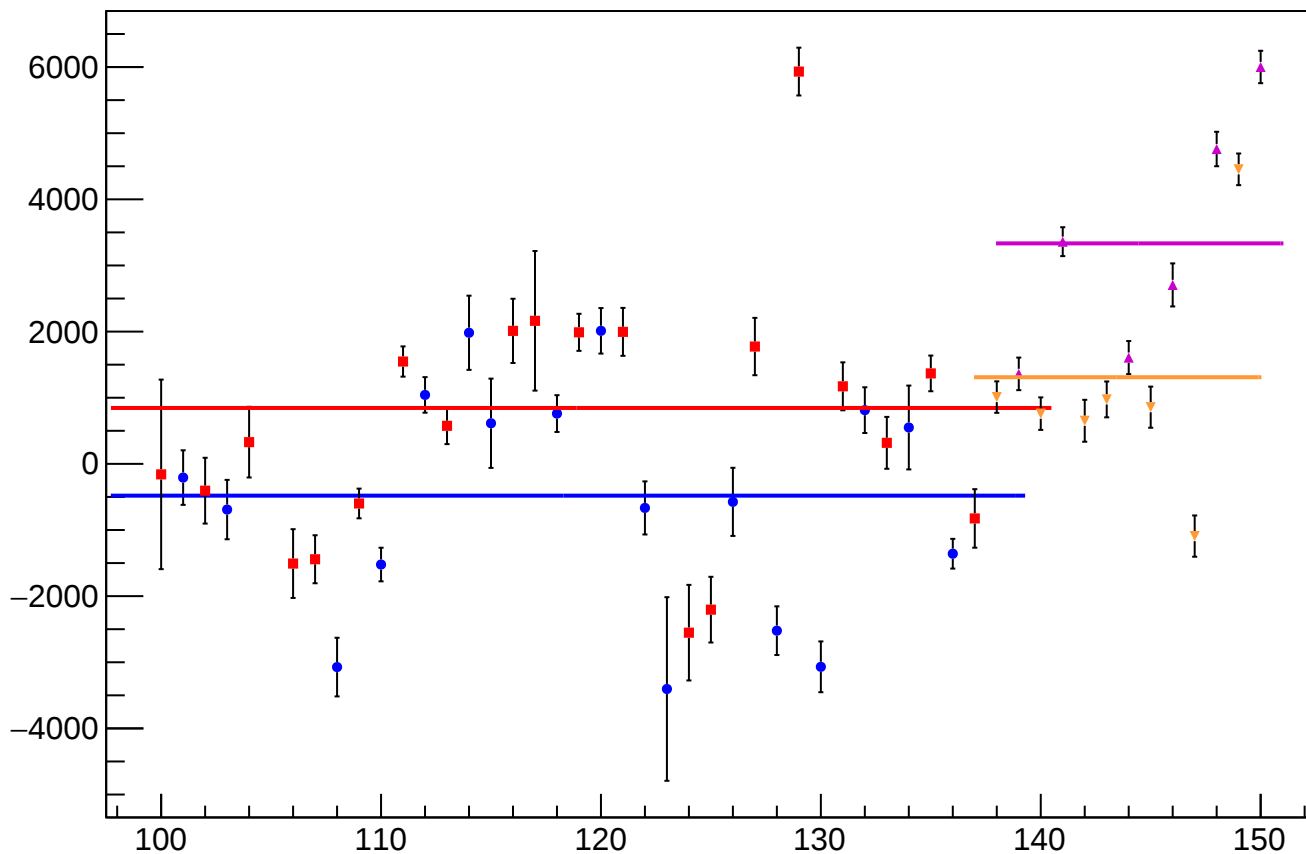
196.741+/-0.042 χ^2/NDF : 1214035.9/23

Right Out: 175.058+/-0.049 χ^2/NDF : 1298079.7/19

186.078+/-0.040 χ^2/NDF : 1619632.4/25

Left In: 206.629+/-0.067 χ^2/NDF : 178878.3/5

asym_bpm0i07WS_mean vs Slug



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 1310.206+/-102.150 χ^2/NDF : 246.4/6

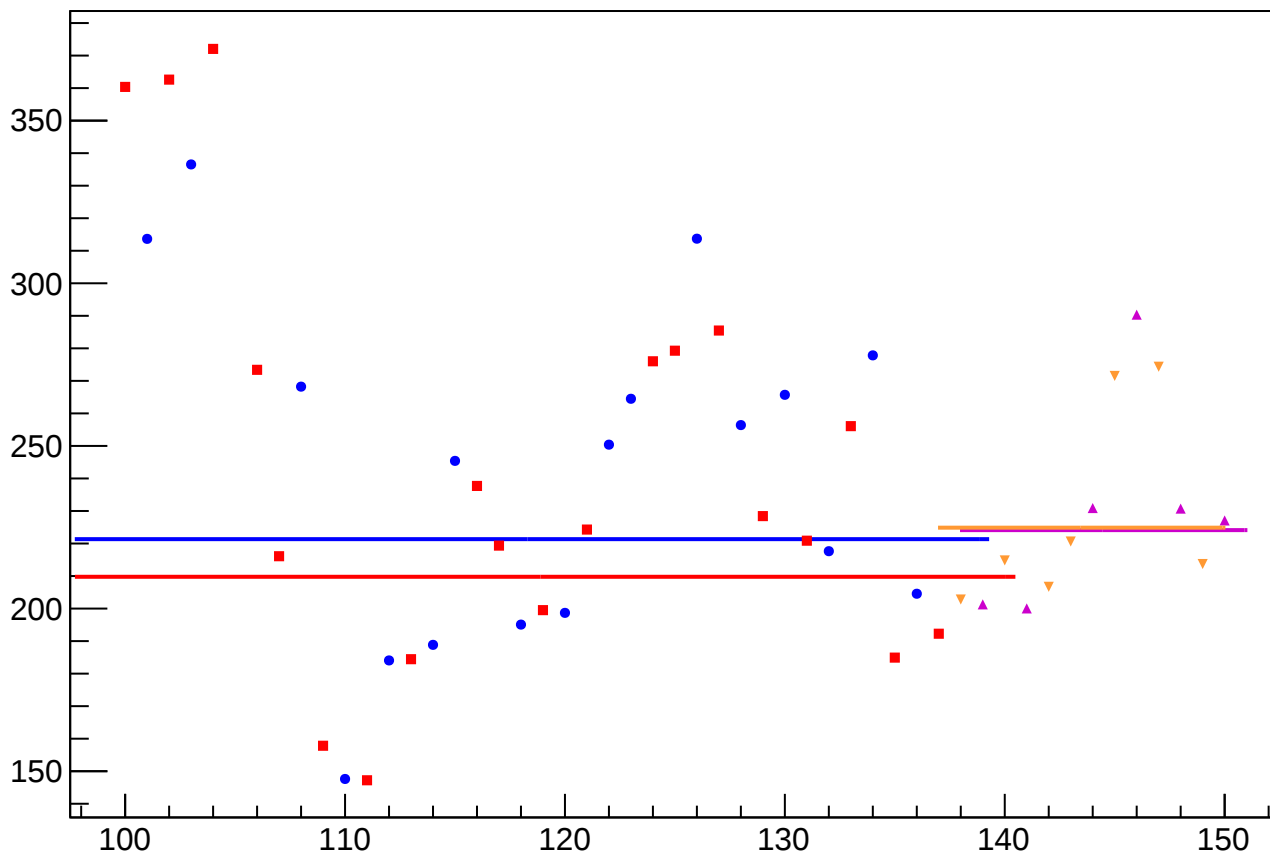
Right Out: 845.444+/-81.995 χ^2/NDF : 436.9/19

Left In: 3333.815+/-103.011 χ^2/NDF : 264.1/5

288.644+/-66.949 χ^2/NDF : 712.4/23

1810.556+/-64.153 χ^2/NDF : 1058.2/25

asym_bpm0i07WS_rms vs Slug



Right In: 221.342 ± 0.063 $\chi^2/\text{NDF}: 645688.1/16$

Left Out: 224.873 ± 0.072 $\chi^2/\text{NDF}: 127286.3/6$

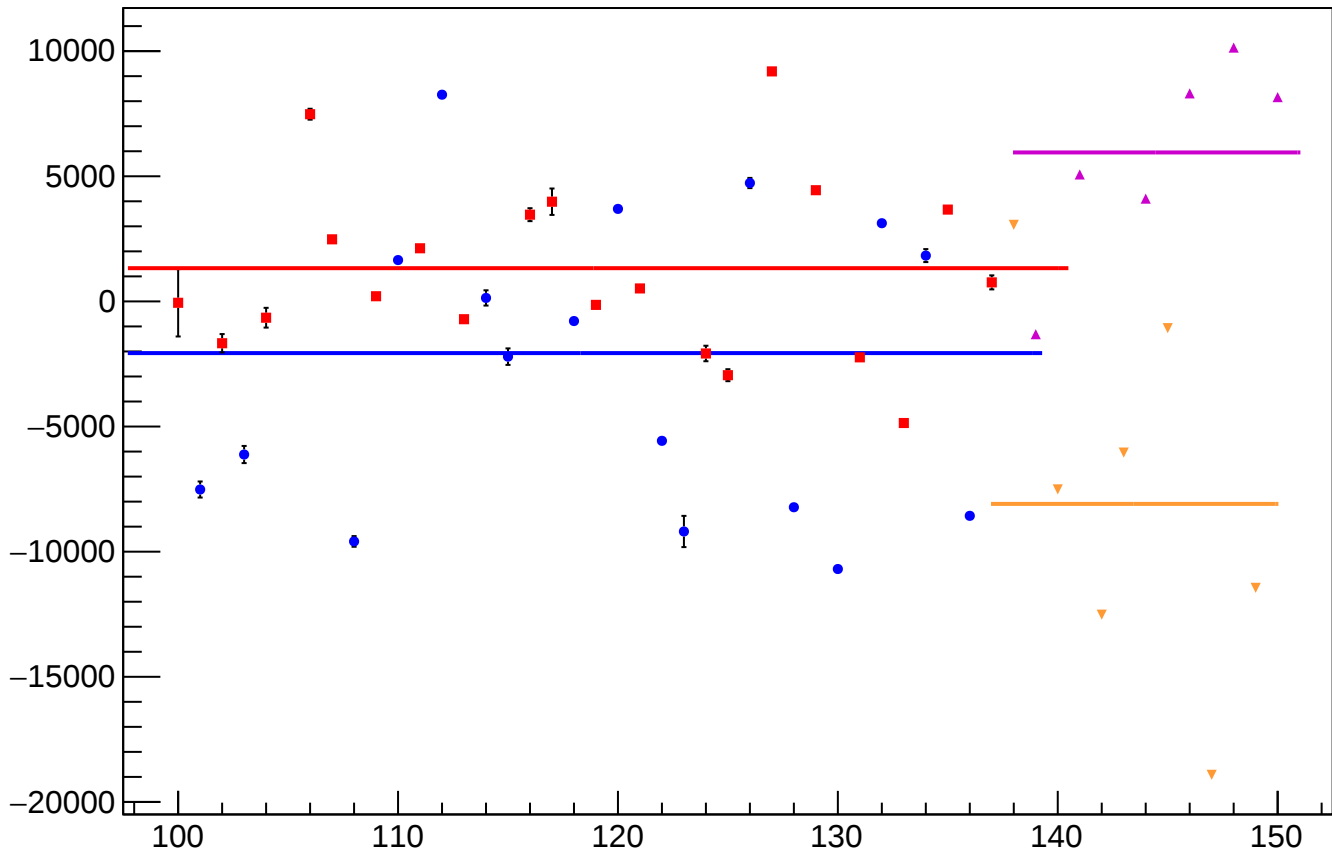
Right Out: 209.775 ± 0.058 $\chi^2/\text{NDF}: 884083.7/19$

Left In: 224.119 ± 0.073 $\chi^2/\text{NDF}: 127352.1/5$

222.859 ± 0.047 $\chi^2/\text{NDF}: 774337.3/23$

215.338 ± 0.045 $\chi^2/\text{NDF}: 1035174.8/25$

asym_bpm1i02WS_mean vs Slug



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -8091.079+/-48.909 χ^2/NDF :19866.3/6

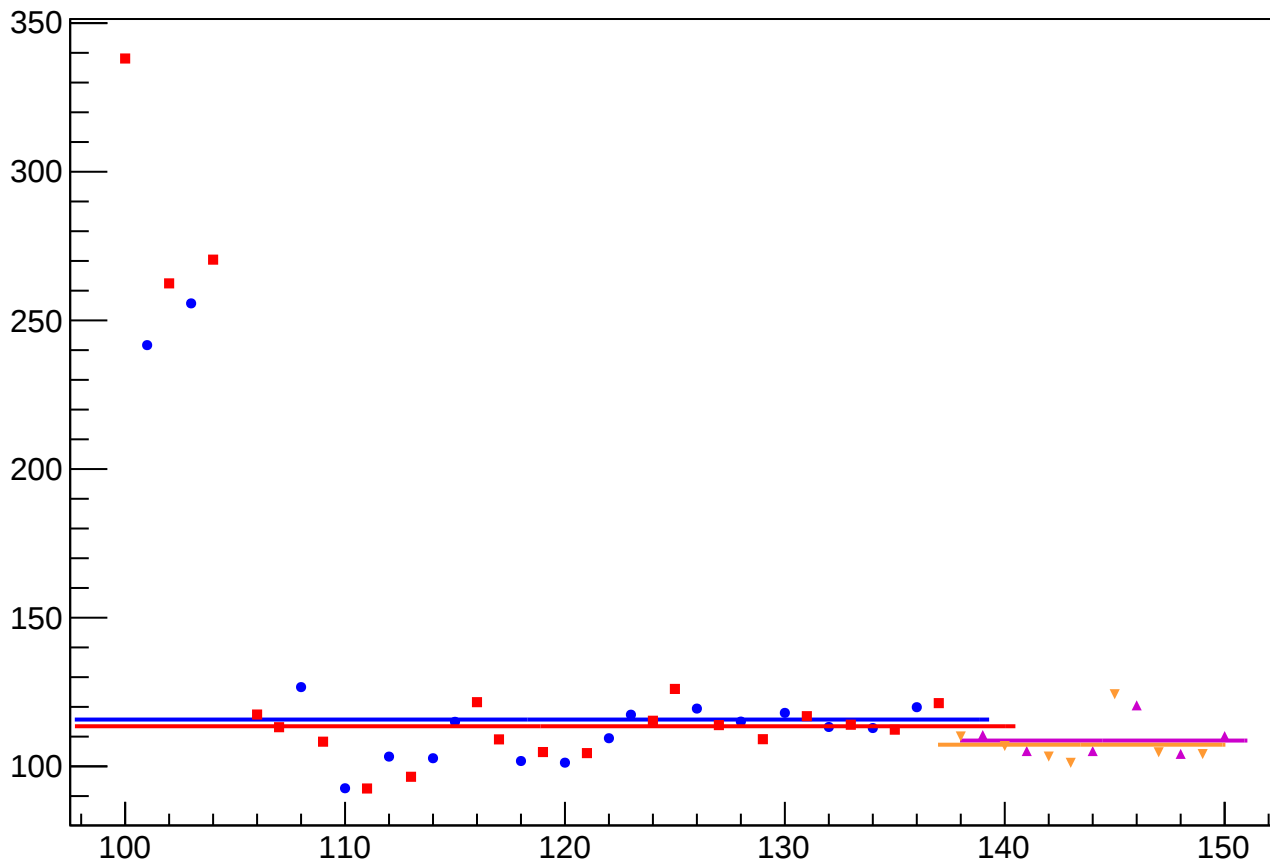
Right Out: 1327.819+/-44.838 χ^2/NDF : 5919.9/19

Left In: 5952.278+/-49.901 χ^2/NDF :5060.7/5

-4978.771+/-34.009 χ^2/NDF : 44239.7/23

3393.609+/-33.352 χ^2/NDF : 15732.3/25

asym_bpm1i02WS_rms vs Slug



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 107.282+/-0.035 χ^2/NDF : 37087.9/6

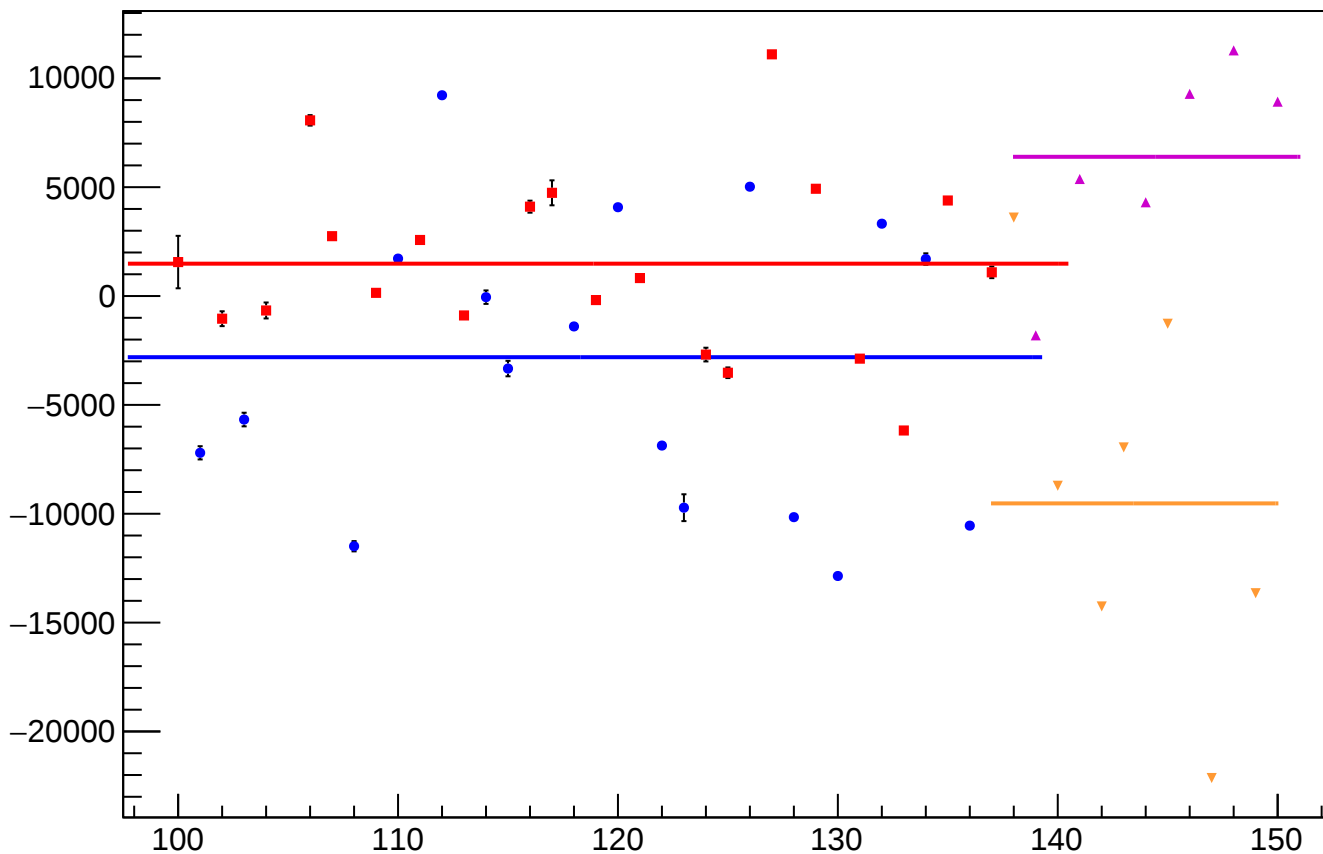
Right Out: 113.487+/-0.032 χ^2/NDF : 796781.7/19

Left In: 108.673+/-0.035 χ^2/NDF : 22739.8/5

111.651+/-0.024 χ^2/NDF : 812000.9/23

111.336+/-0.024 χ^2/NDF : 829820.6/25

asym_bpm2i01WS_mean vs Slug



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -9524.401+/-53.073 χ^2/NDF : 23165.1/6

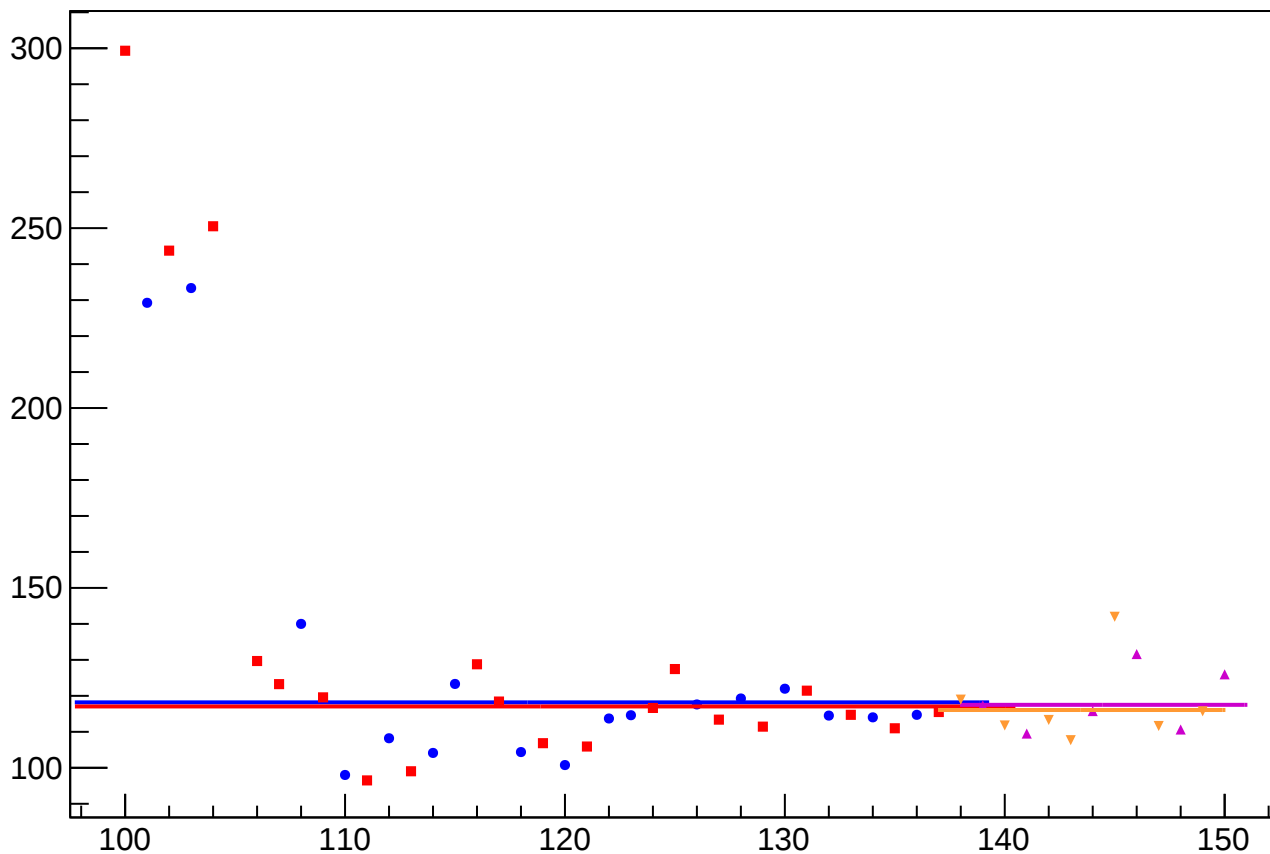
Right Out: 1486.369+/-46.243 χ^2/NDF : 8037.1/19

Left In: 6395.093+/-54.084 χ^2/NDF : 5779.2/5

-5850.183+/-35.716 χ^2/NDF : 53187.7/23

3559.455+/-35.147 χ^2/NDF : 18575.0/25

asym_bpm2i01WS_rms vs Slug



Right In: 118.188 ± 0.034 χ^2/NDF : 636252.0/16

Left Out: 116.066 ± 0.038 χ^2/NDF : 63496.1/6

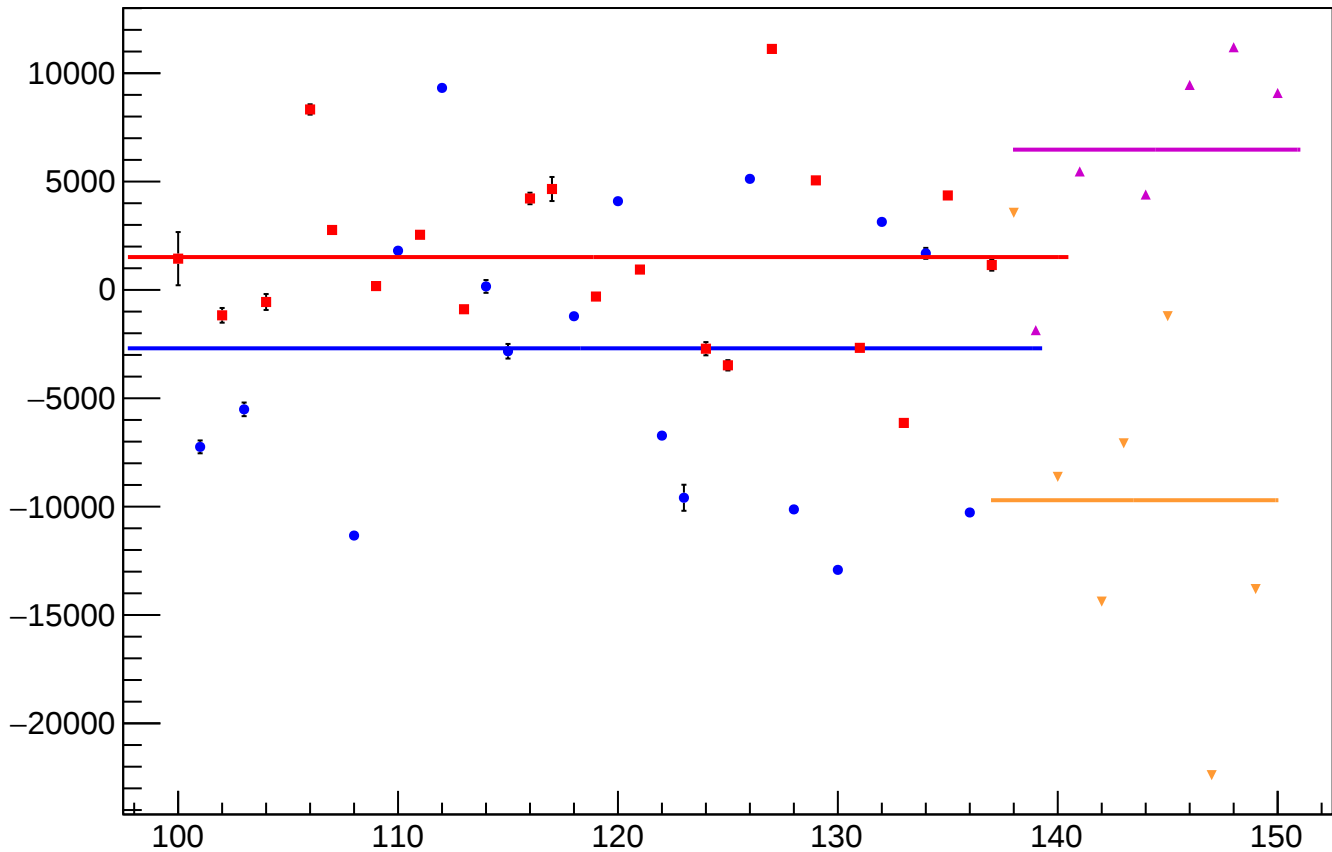
Right Out: 117.054 ± 0.033 χ^2/NDF : 690646.8/19

Left In: 117.503 ± 0.038 χ^2/NDF : 41210.1/5

117.227 ± 0.025 χ^2/NDF : 701498.1/23

117.244 ± 0.025 χ^2/NDF : 731936.4/25

asym_bpm2i02WS_mean vs Slug



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -9704.123+/-51.349 χ^2/NDF : 25573.9/6

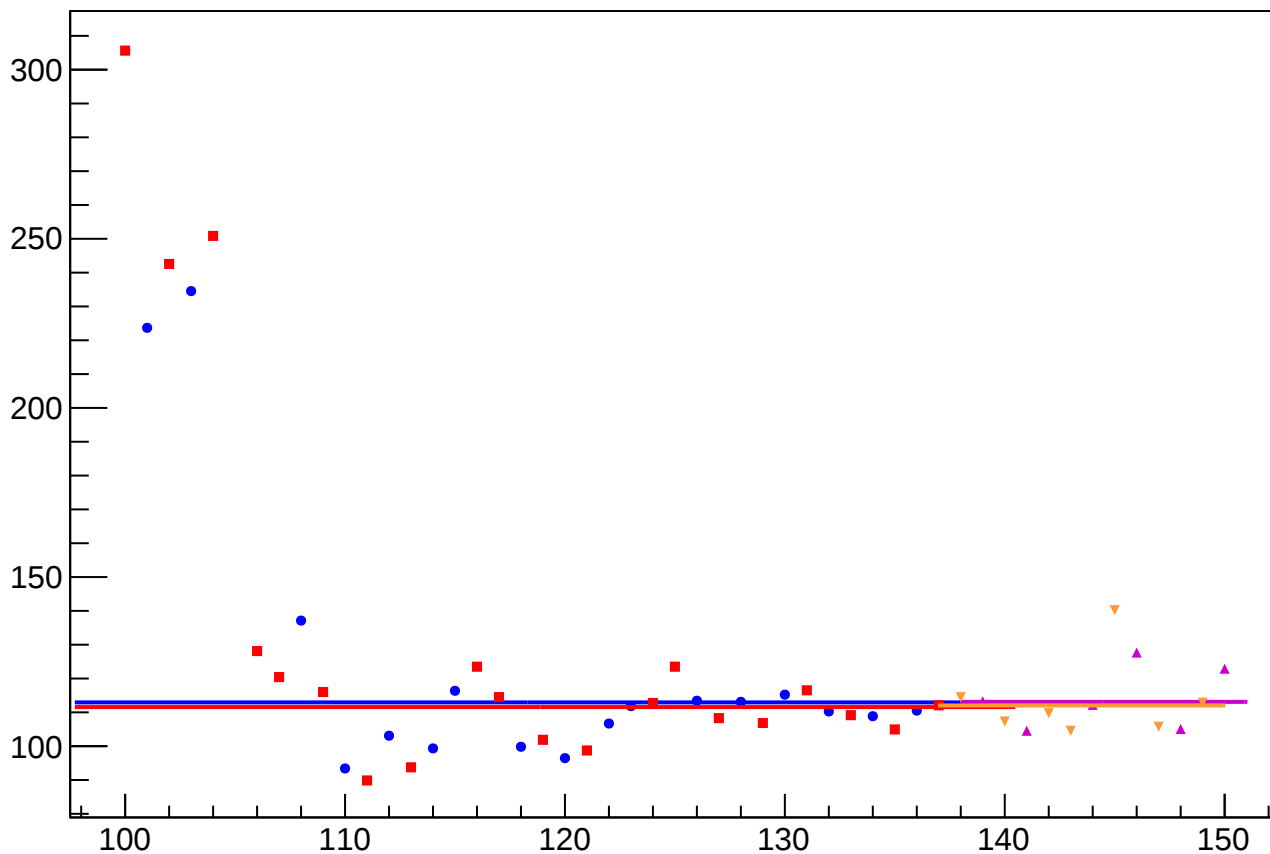
Right Out: 1515.863+/-44.303 χ^2/NDF : 8749.3/19

Left In: 6472.843+/-52.169 χ^2/NDF : 6271.1/5

-5841.215+/-34.405 χ^2/NDF : 58703.8/23

3592.850+/-33.769 χ^2/NDF : 20265.9/25

asym_bpm2i02WS_rms vs Slug



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 112.033 $\pm$ 0.036 χ^2 /NDF: 75861.0/6

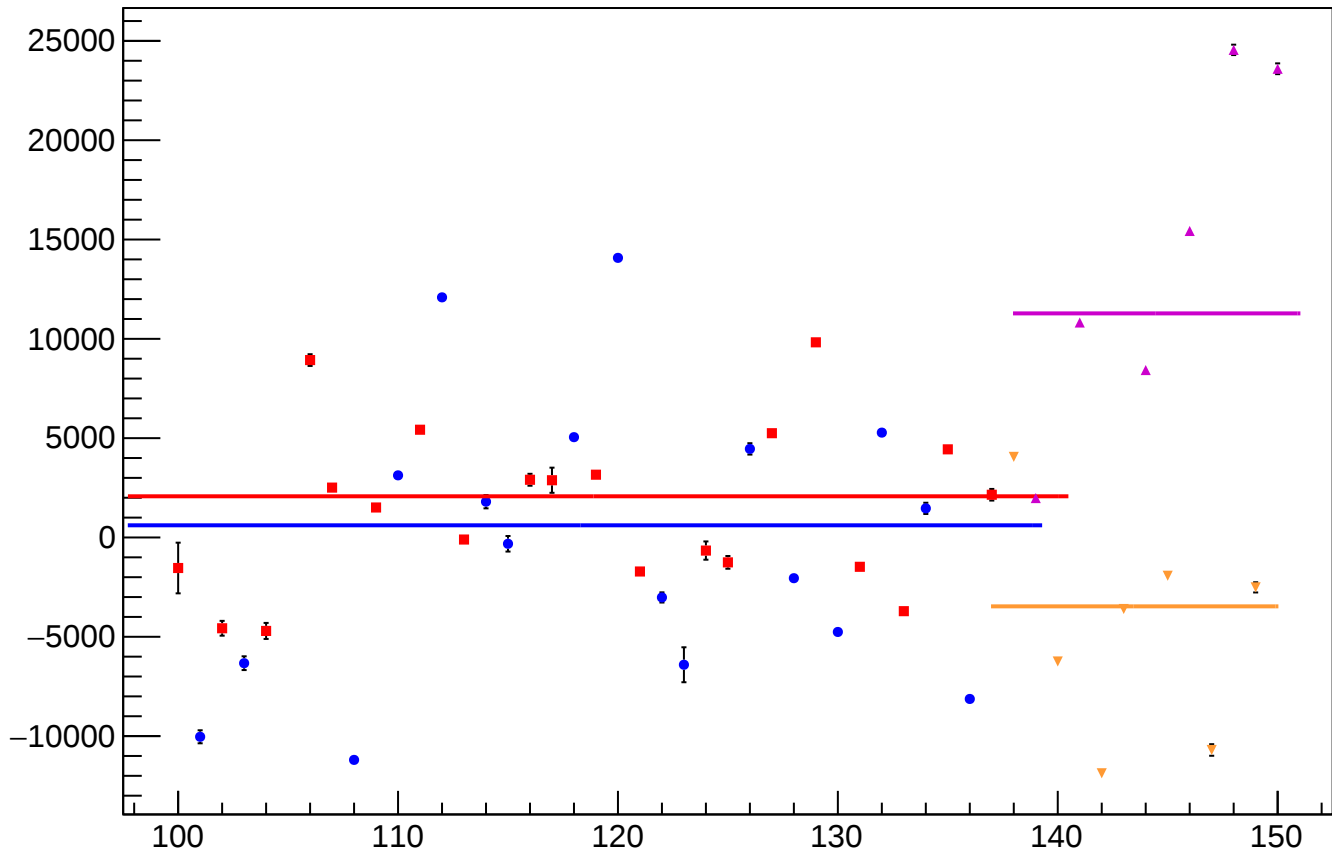
Right Out: 111.562 $\pm$ 0.031 χ^2 /NDF: 765559.1/19

Left In: 113.097 $\pm$ 0.037 χ^2 /NDF: 51727.6/5

112.533 $\pm$ 0.024 χ^2 /NDF: 756488.0/23

112.206 $\pm$ 0.024 χ^2 /NDF: 818292.7/25

asym_bpm0i01WS_mean vs Slug



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -3467.787 ± 75.264 $\chi^2/\text{NDF}: 4565.9/6$

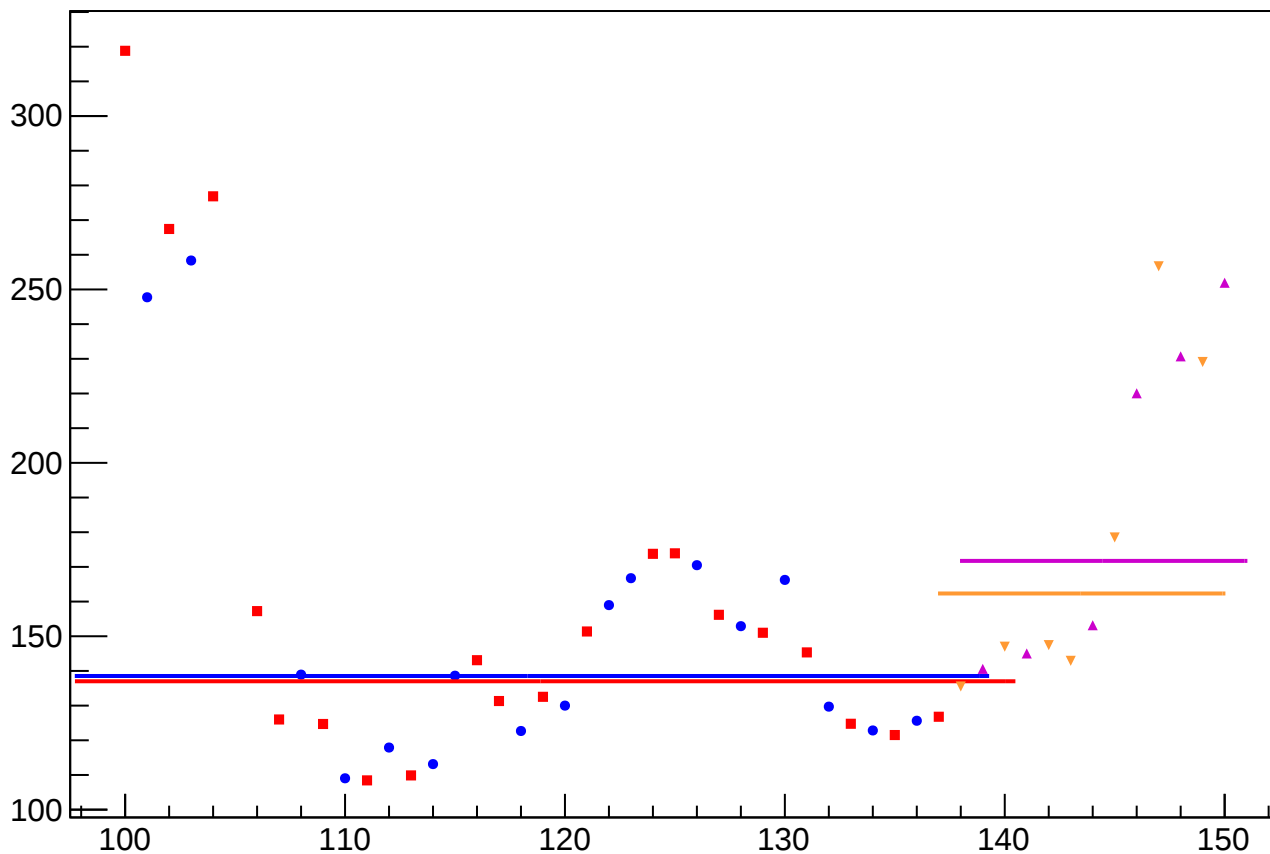
Right Out: 2073.278 ± 53.736 $\chi^2/\text{NDF}: 4644.3/19$

Left In: 11281.541 ± 80.655 $\chi^2/\text{NDF}: 8092.7/5$

-843.430 ± 44.960 $\chi^2/\text{NDF}: 24699.6/23$

4904.105 ± 44.720 $\chi^2/\text{NDF}: 21764.4/25$

asym_bpm0i01WS_rms vs Slug



Right In: 138.542 ± 0.040 χ^2/NDF : 668941.7/16

Left Out: 162.332 ± 0.053 χ^2/NDF : 464342.9/6

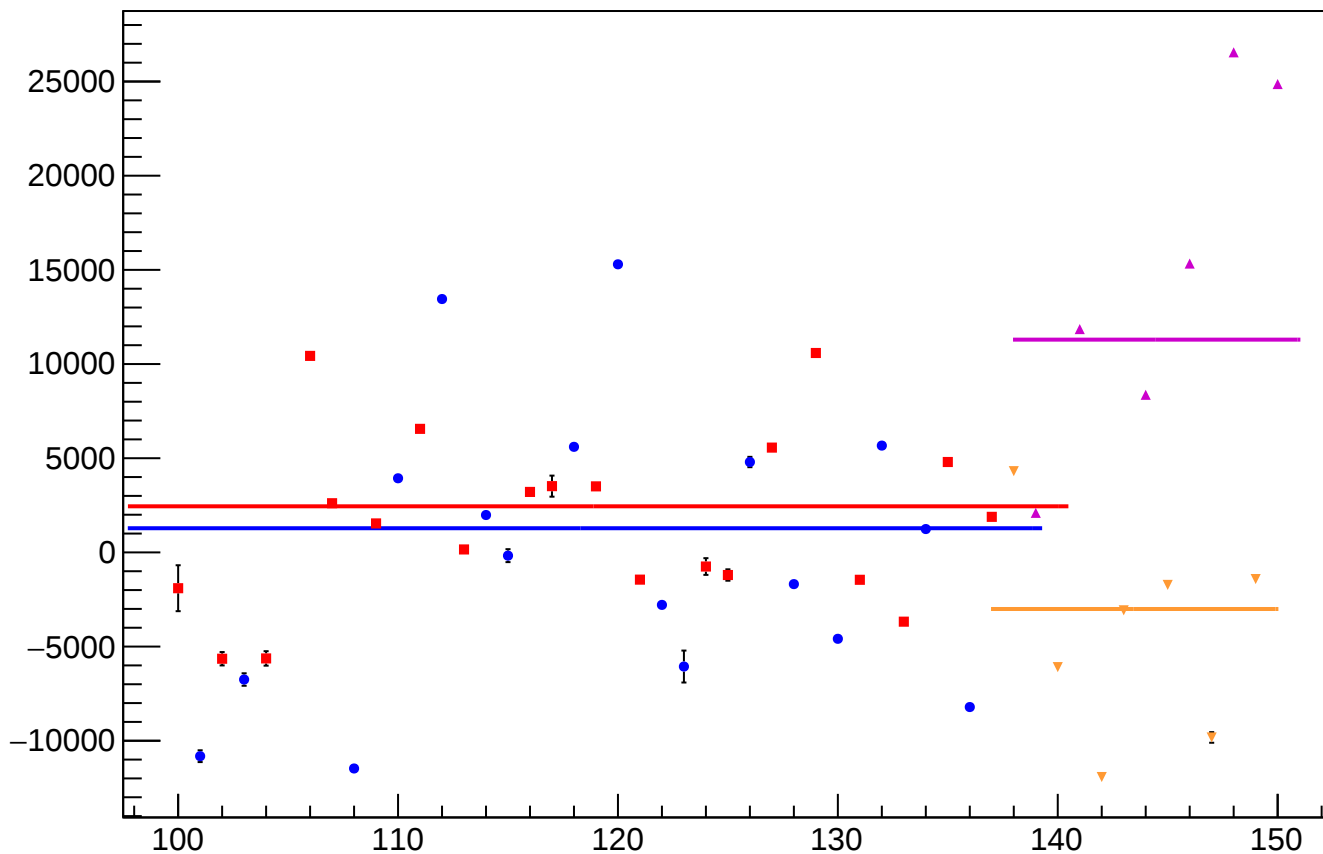
Right Out: 137.019 ± 0.038 χ^2/NDF : 755655.0/19

Left In: 171.729 ± 0.057 χ^2/NDF : 500062.6/5

147.031 ± 0.032 χ^2/NDF : 1261804.2/23

147.690 ± 0.032 χ^2/NDF : 1512247.7/25

asym_bpm0i01aWS_mean vs Slug



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -3004.974+/-67.288 χ^2/NDF : 5968.2/6

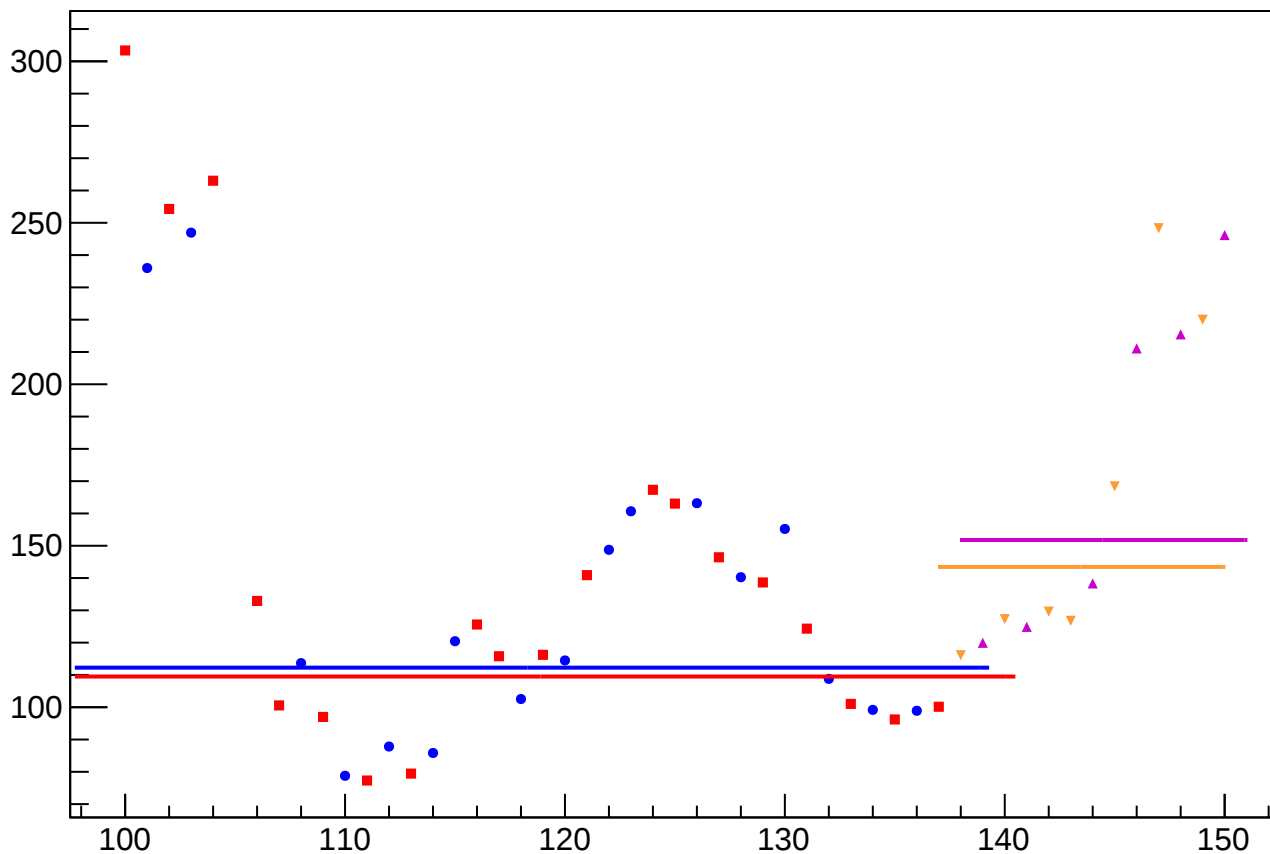
Right Out: 2446.970+/-44.148 χ^2/NDF : 7681.2/19

Left In: 11295.878+/-72.313 χ^2/NDF : 10960.0/5

-105.837+/-38.294 χ^2/NDF : 39254.6/23

4849.639+/-37.680 χ^2/NDF : 29549.7/25

asym_bpm0i01aWS_rms vs Slug



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 143.444+/-0.048 χ^2/NDF : 639826.8/6

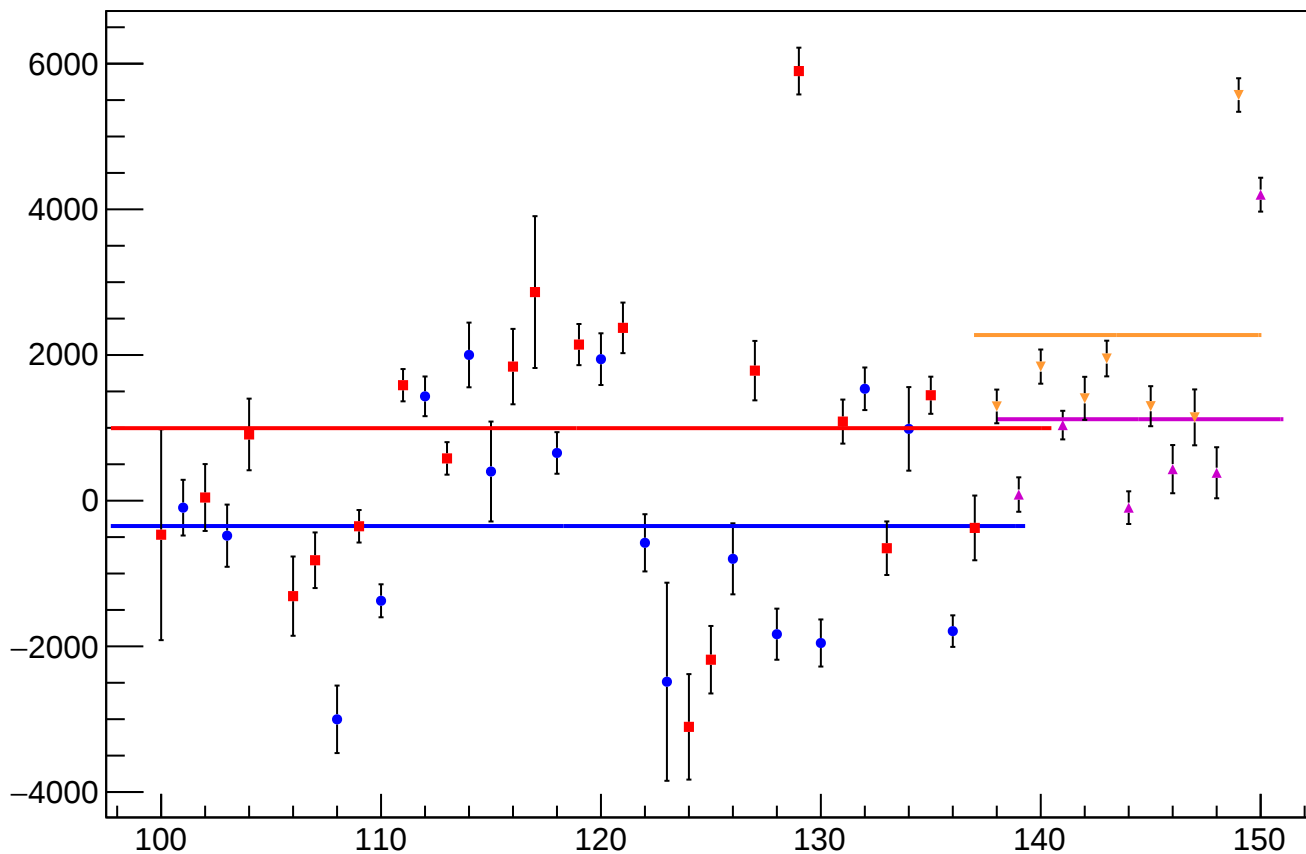
Right Out: 109.500+/-0.031 χ^2/NDF : 1269887.8/19

Left In: 151.776+/-0.051 χ^2/NDF : 699124.5/5

122.354+/-0.027 χ^2/NDF : 2055968.9/23

120.979+/-0.027 χ^2/NDF : 2466991.4/25

asym_bpm0l01WS_mean vs Slug



Right In: -348.055 ± 83.826 χ^2/NDF : 317.3/16

Left Out: 2274.188 ± 98.129 χ^2/NDF : 257.7/6

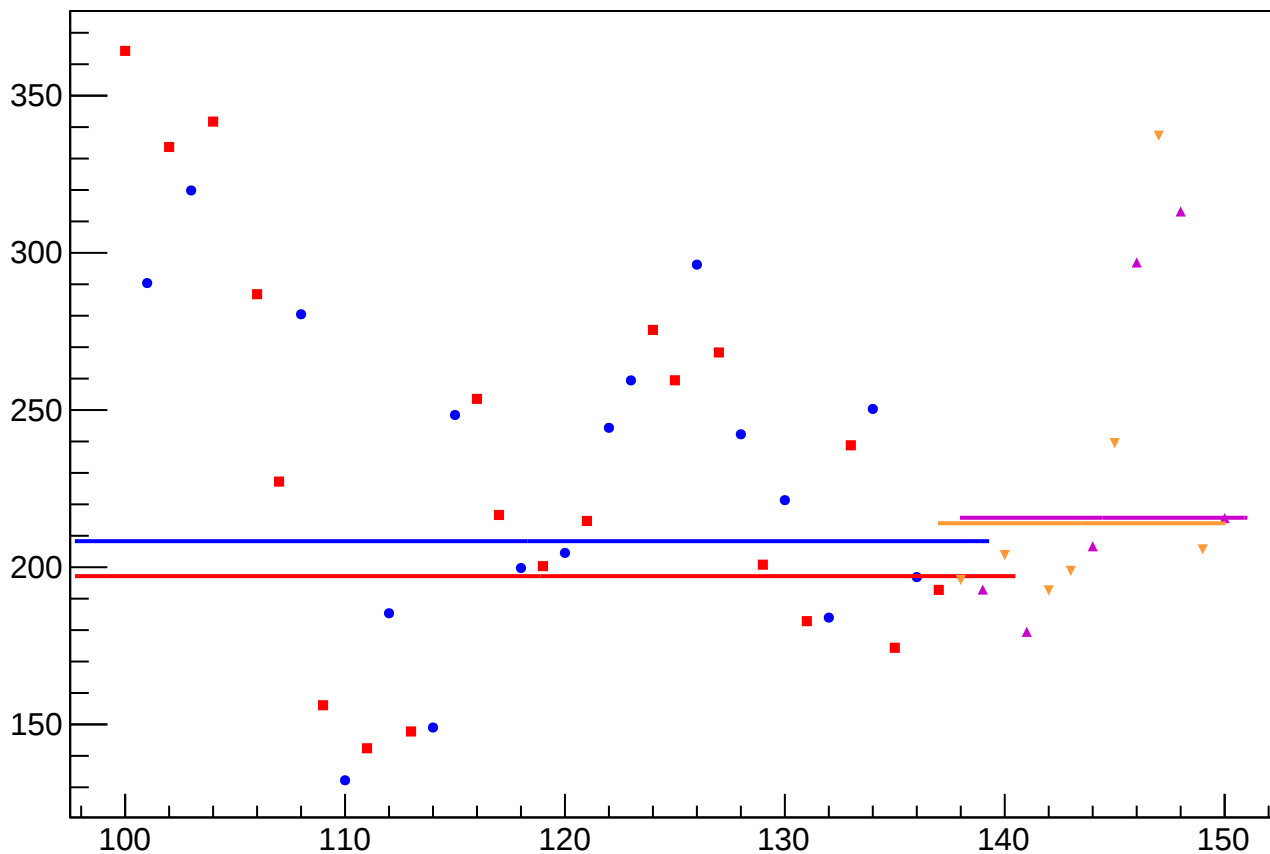
Right Out: 995.622 ± 77.468 χ^2/NDF : 479.8/19

Left In: 1118.572 ± 100.263 χ^2/NDF : 232.9/5

758.208 ± 63.737 χ^2/NDF : 987.9/23

1041.583 ± 61.302 χ^2/NDF : 713.6/25

asym_bpm0l01WS_rms vs Slug



Right In: 208.288 ± 0.059 χ^2/NDF : 698491.0/16

Left Out: 213.987 ± 0.069 χ^2/NDF : 260134.9/6

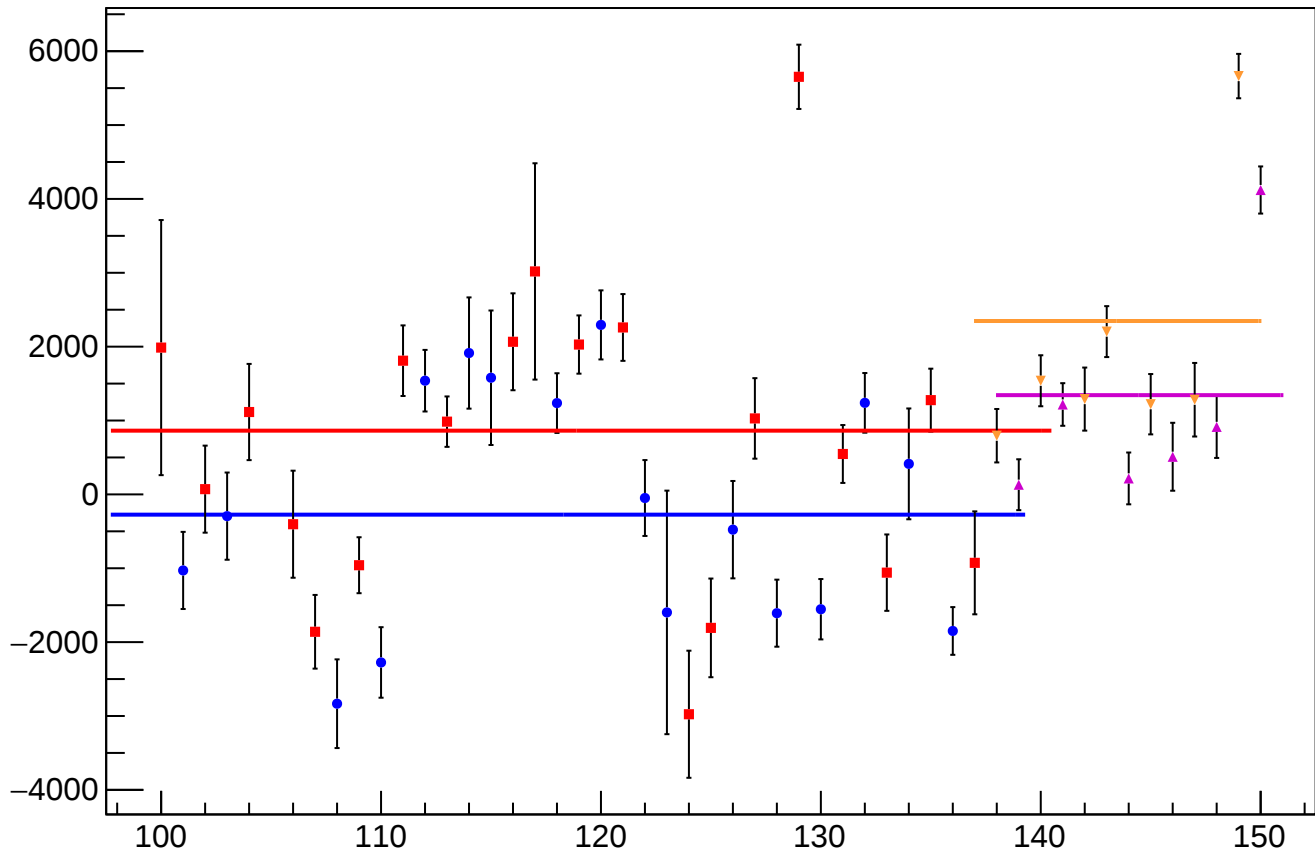
Right Out: 197.159 ± 0.055 χ^2/NDF : 927487.8/19

Left In: 215.740 ± 0.071 χ^2/NDF : 365250.6/5

210.692 ± 0.045 χ^2/NDF : 962525.8/23

204.105 ± 0.043 χ^2/NDF : 1335749.3/25

asym_bpm0l02WS_mean vs Slug



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 2347.309 ± 139.970 $\chi^2/\text{NDF}: 164.2/6$

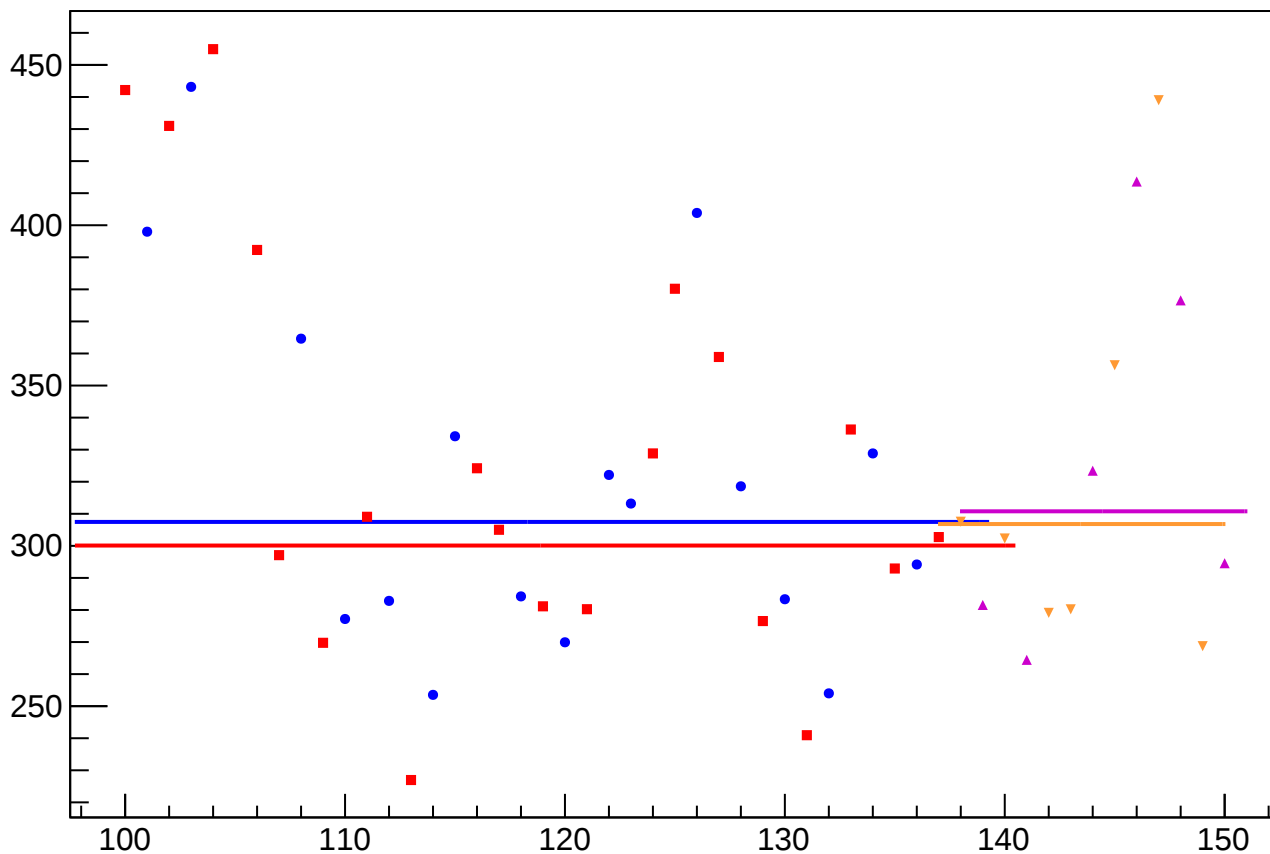
Right Out: 862.791 ± 114.993 $\chi^2/\text{NDF}: 265.4/19$

Left In: 1343.591 ± 143.157 $\chi^2/\text{NDF}: 103.0/5$

850.420 ± 91.678 $\chi^2/\text{NDF}: 536.1/23$

1051.351 ± 89.651 $\chi^2/\text{NDF}: 375.3/25$

asym_bpm0l02WS_rms vs Slug



Right In: 307.468 ± 0.086 $\chi^2/\text{NDF}: 323096.7/16$

Left Out: 306.805 ± 0.099 $\chi^2/\text{NDF}: 223159.3/6$

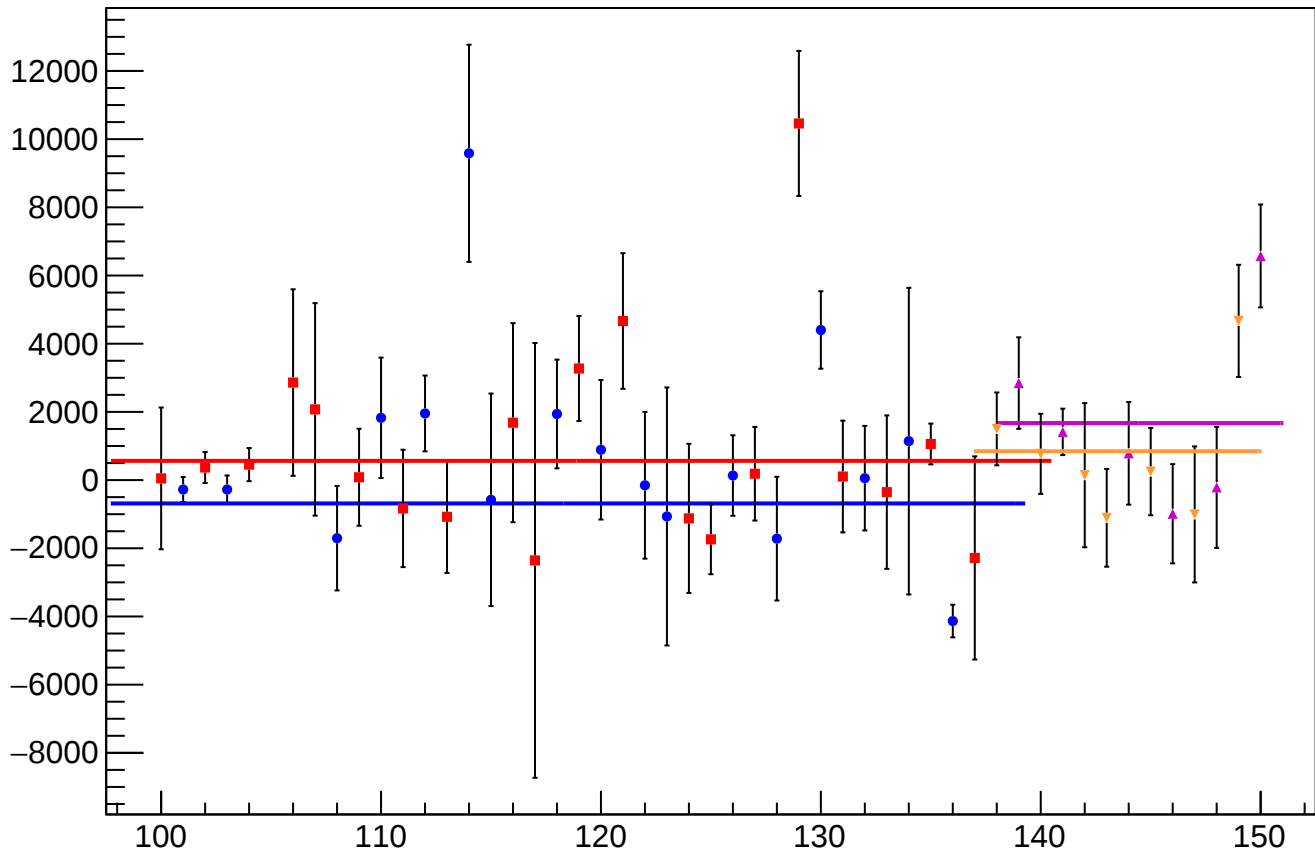
Right Out: 300.100 ± 0.081 $\chi^2/\text{NDF}: 490421.6/19$

Left In: 310.774 ± 0.101 $\chi^2/\text{NDF}: 222805.3/5$

307.184 ± 0.065 $\chi^2/\text{NDF}: 546281.6/23$

304.286 ± 0.063 $\chi^2/\text{NDF}: 719985.1/25$

asym_bpm0l03WS_mean vs Slug



Right In: -685.056 ± 210.341 χ^2/NDF : 97.4/16

Left Out: 845.766 ± 531.494 χ^2/NDF : 8.8/6

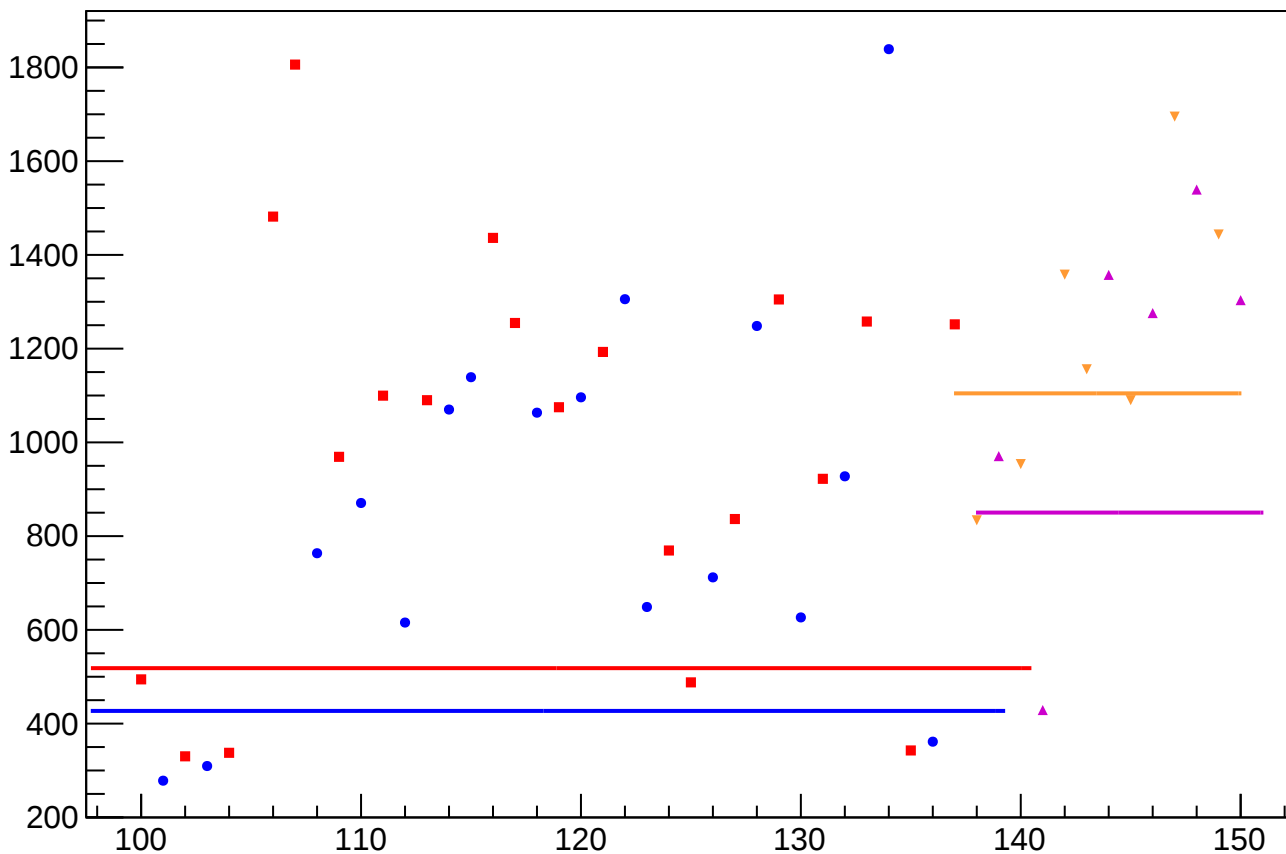
Right Out: 564.400 ± 243.074 χ^2/NDF : 39.9/19

Left In: 1672.737 ± 477.569 χ^2/NDF : 16.3/5

-477.764 ± 195.581 χ^2/NDF : 113.4/23

792.450 ± 216.628 χ^2/NDF : 60.5/25

asym_bpm0l03WS_rms vs Slug



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 1104.591+/-0.376 χ^2/NDF : 453153.0/6

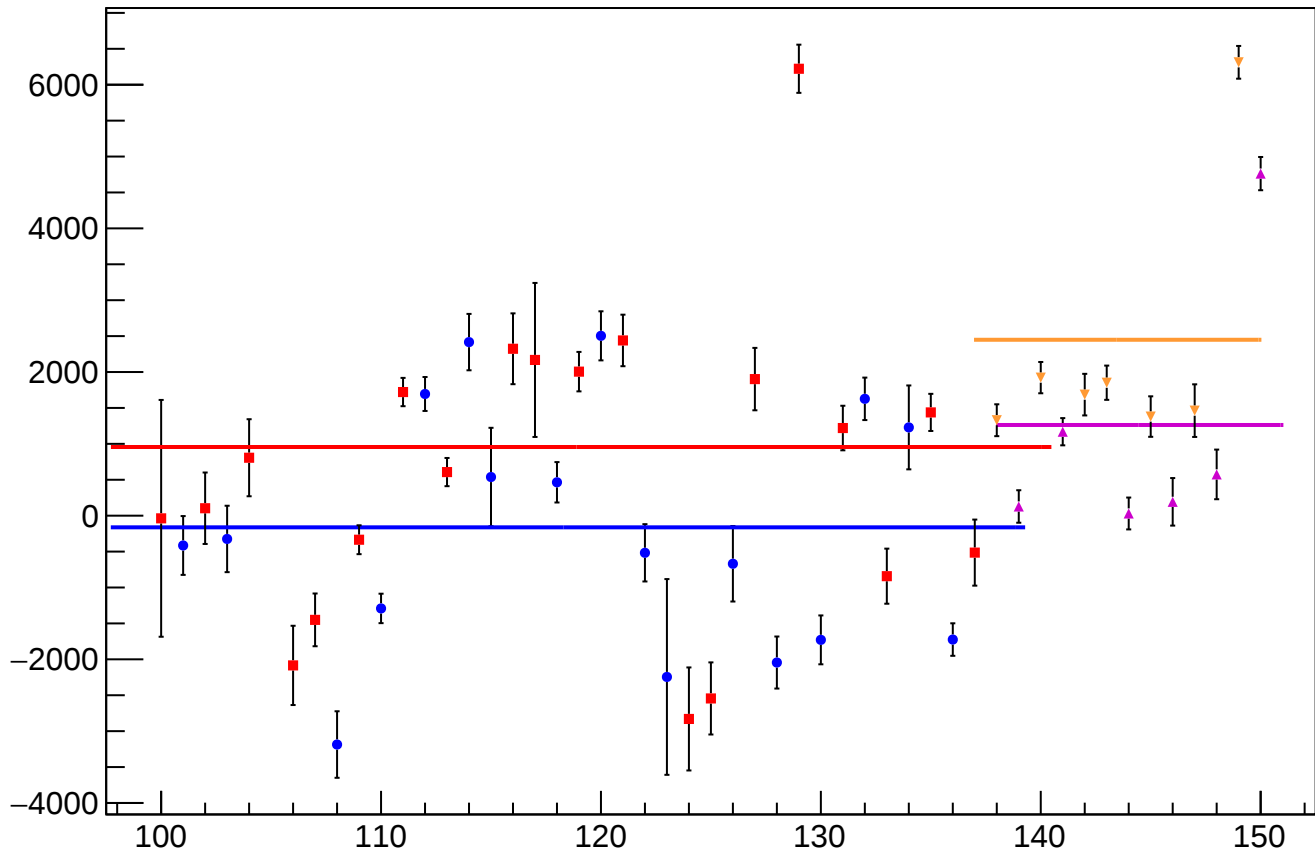
Right Out: 518.306+/-0.172 χ^2/NDF : 3631833.9/19

Left In: 850.227+/-0.338 χ^2/NDF : 1662499.5/5

518.823+/-0.138 χ^2/NDF : 6128634.3/23

586.602+/-0.153 χ^2/NDF : 6061658.8/25

asym_bpm0l04WS_mean vs Slug



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 2449.119 ± 95.267 χ^2/NDF : 353.3/6

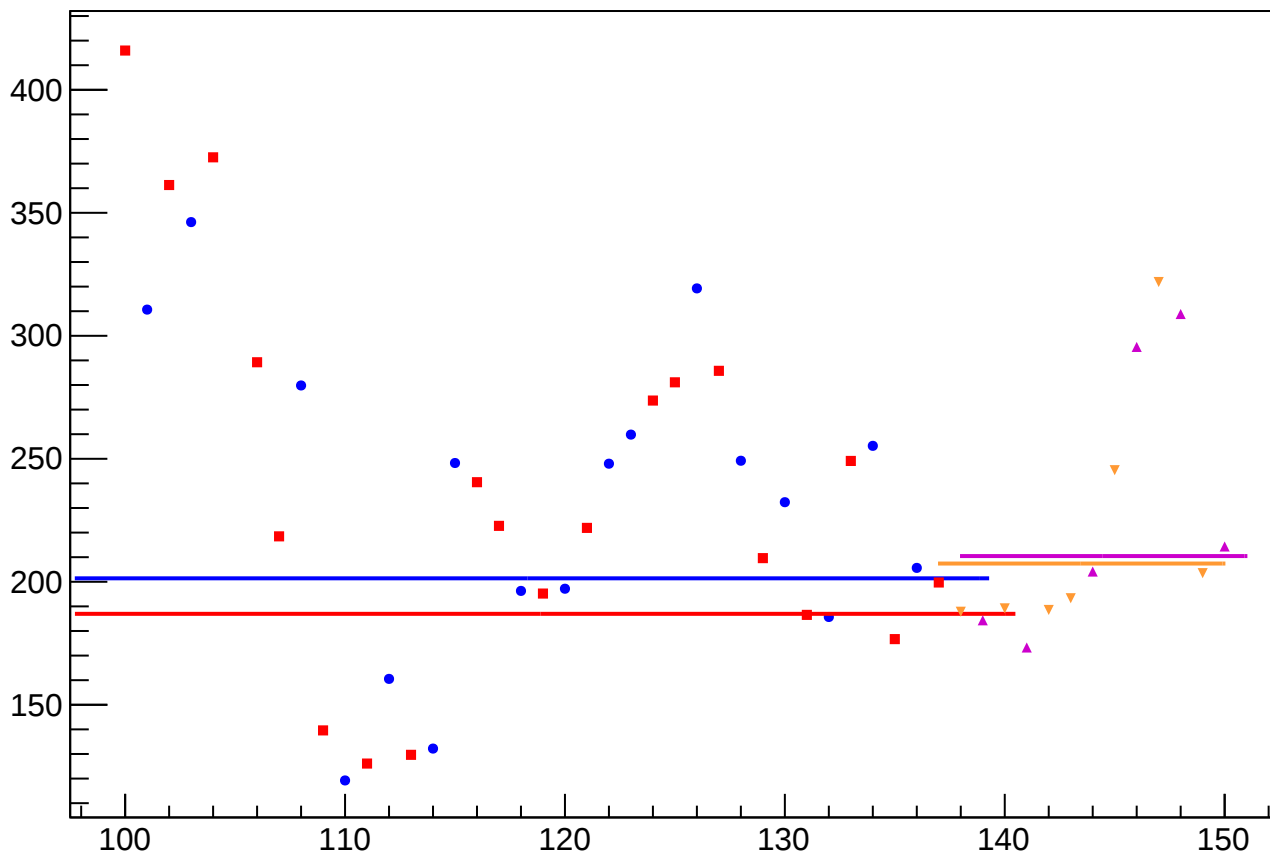
Right Out: 956.044 ± 74.949 χ^2/NDF : 541.1/19

Left In: 1262.652 ± 98.108 χ^2/NDF : 299.4/5

954.480 ± 62.300 χ^2/NDF : 1170.9/23

1069.039 ± 59.558 χ^2/NDF : 846.7/25

asym_bpm0l04WS_rms vs Slug



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 207.417 $\pm$ 0.067 χ^2 /NDF:277091.9/6

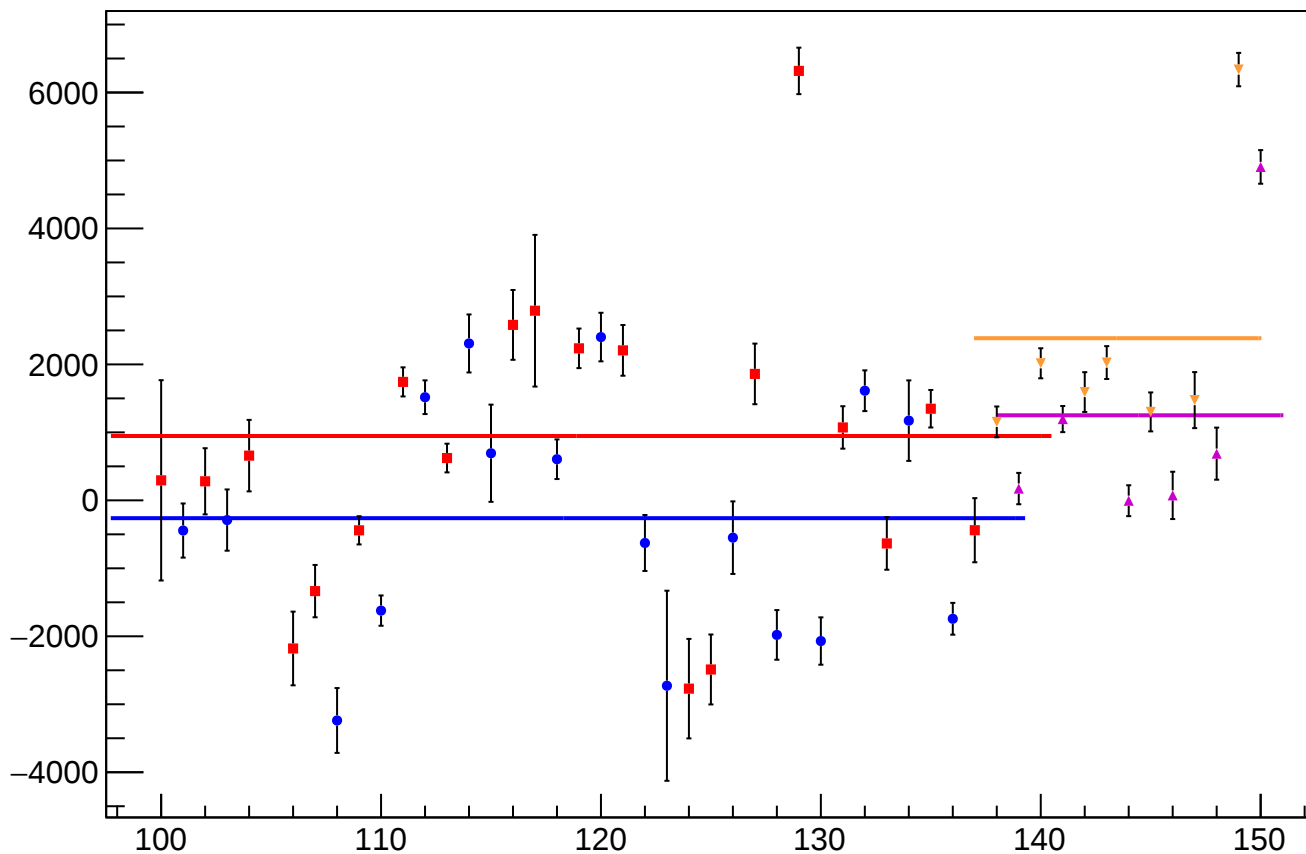
203.979 $\pm$ 0.044 χ^2 /NDF: 1337666.6/23

Right Out: 186.973 $\pm$ 0.053 χ^2 /NDF: 1395397.8/19

195.628 $\pm$ 0.042 χ^2 /NDF: 1867720.9/25

Left In: 210.457 $\pm$ 0.069 χ^2 /NDF:399961.5/5

asym_bpm0l05WS_mean vs Slug



Right In: -262.324 ± 85.433 χ^2/NDF : 368.7/16

Left Out: 2385.302 ± 98.332 χ^2/NDF : 320.0/6

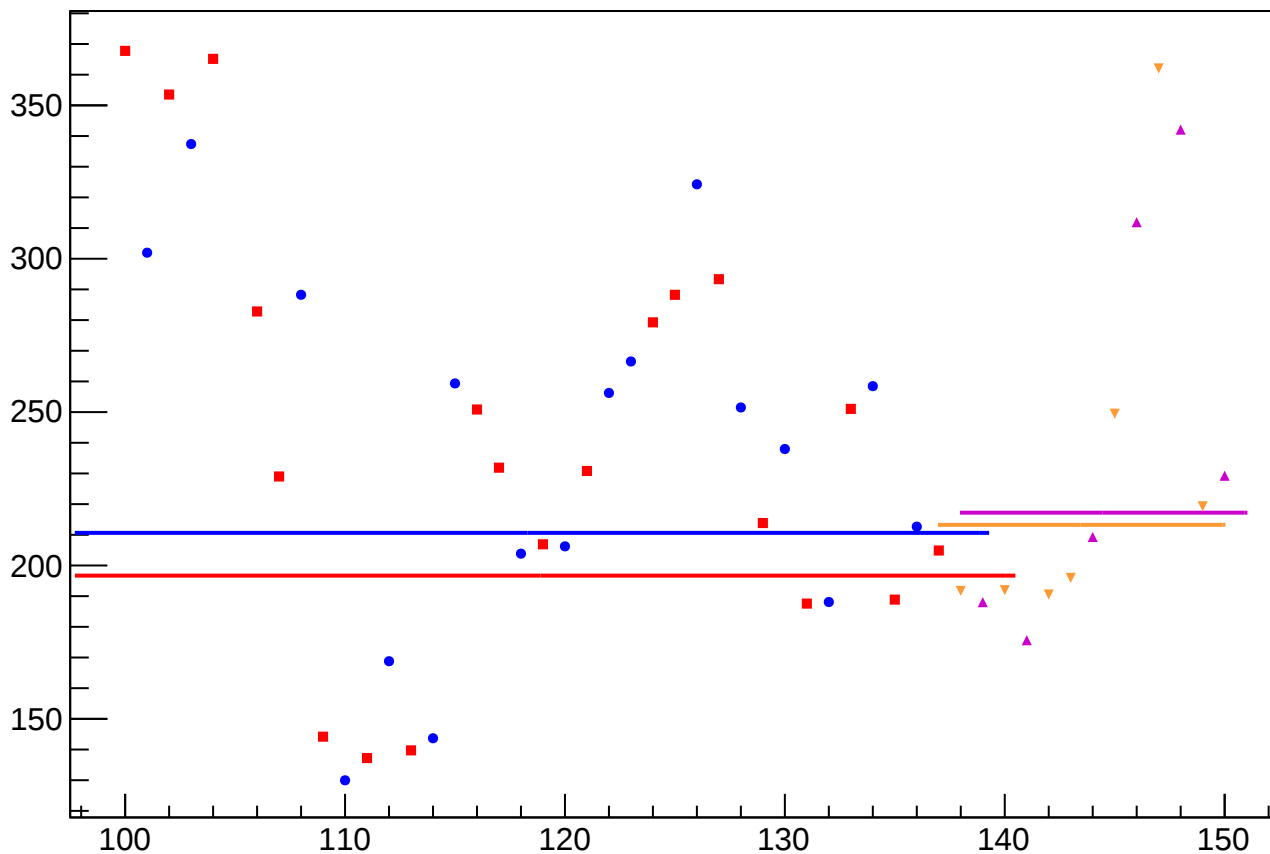
Right Out: 946.785 ± 78.241 χ^2/NDF : 524.6/19

Left In: 1251.413 ± 101.705 χ^2/NDF : 284.2/5

876.560 ± 64.492 χ^2/NDF : 1101.8/23

1060.040 ± 62.014 χ^2/NDF : 814.5/25

asym_bpm0l05WS_rms vs Slug



Right In: 210.636 ± 0.060 χ^2/NDF : 875776.4/16

Left Out: 213.246 ± 0.070 χ^2/NDF : 352746.2/6

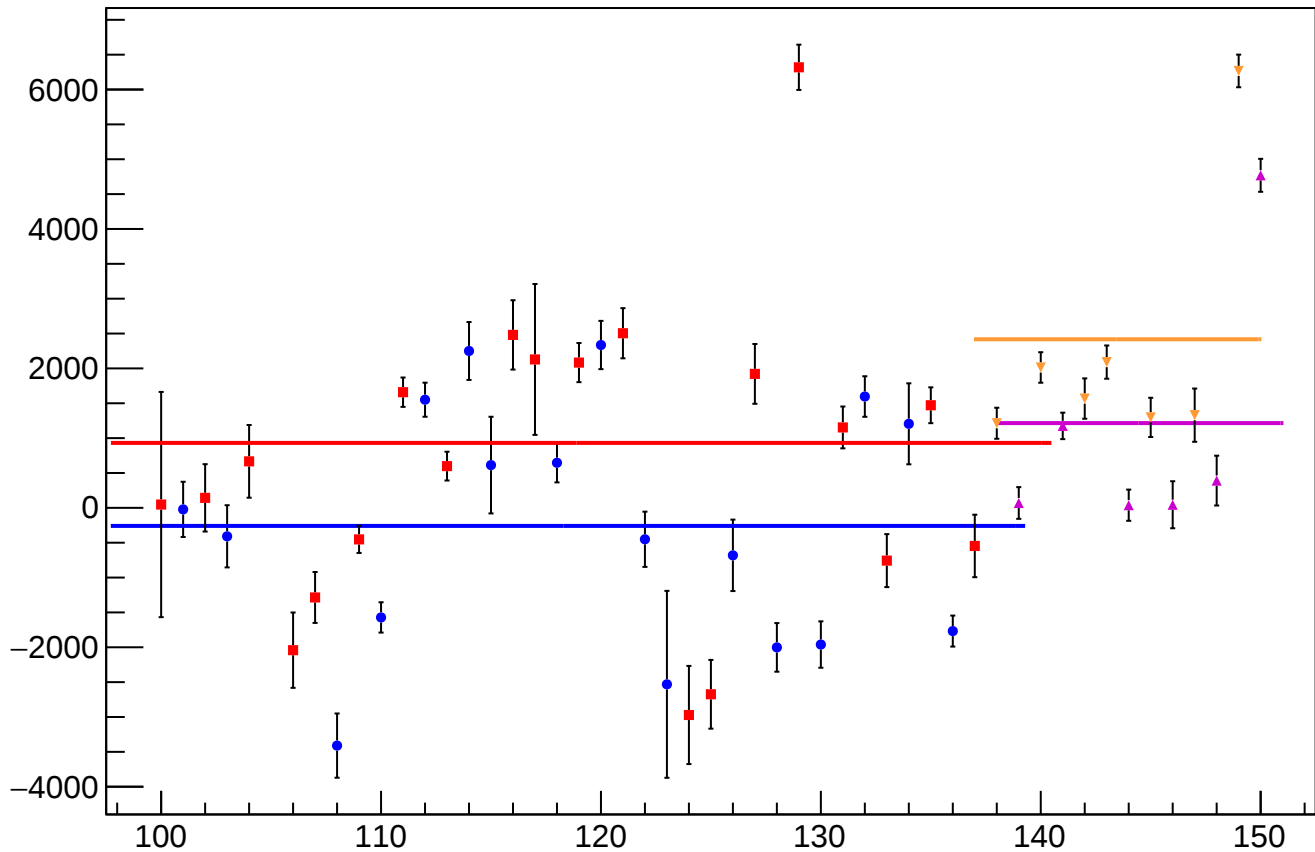
Right Out: 196.702 ± 0.055 χ^2/NDF : 1207089.6/19

Left In: 217.216 ± 0.072 χ^2/NDF : 493443.1/5

211.758 ± 0.046 χ^2/NDF : 1229325.4/23

204.329 ± 0.044 χ^2/NDF : 1751647.9/25

asym_bpm0l06WS_mean vs Slug



Right In: -259.139 ± 82.802 $\chi^2/\text{NDF}: 391.2/16$

Left Out: 2417.858 ± 96.068 $\chi^2/\text{NDF}: 337.9/6$

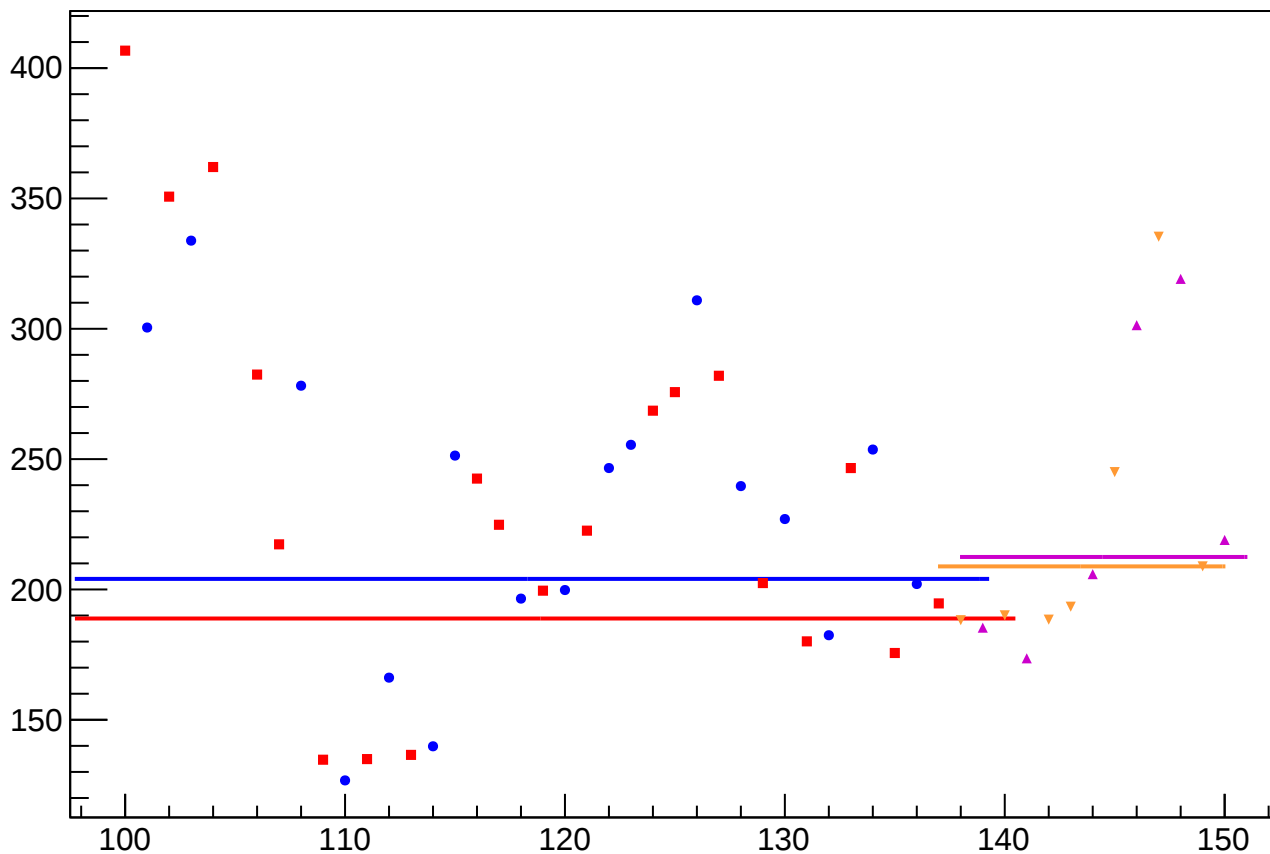
Right Out: 931.363 ± 75.320 $\chi^2/\text{NDF}: 583.1/19$

Left In: 1215.526 ± 99.199 $\chi^2/\text{NDF}: 296.6/5$

881.910 ± 62.720 $\chi^2/\text{NDF}: 1174.6/23$

1035.279 ± 59.988 $\chi^2/\text{NDF}: 884.9/25$

asym_bpm0l06WS_rms vs Slug



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 208.846+/-0.068 χ^2/NDF :302840.3/6

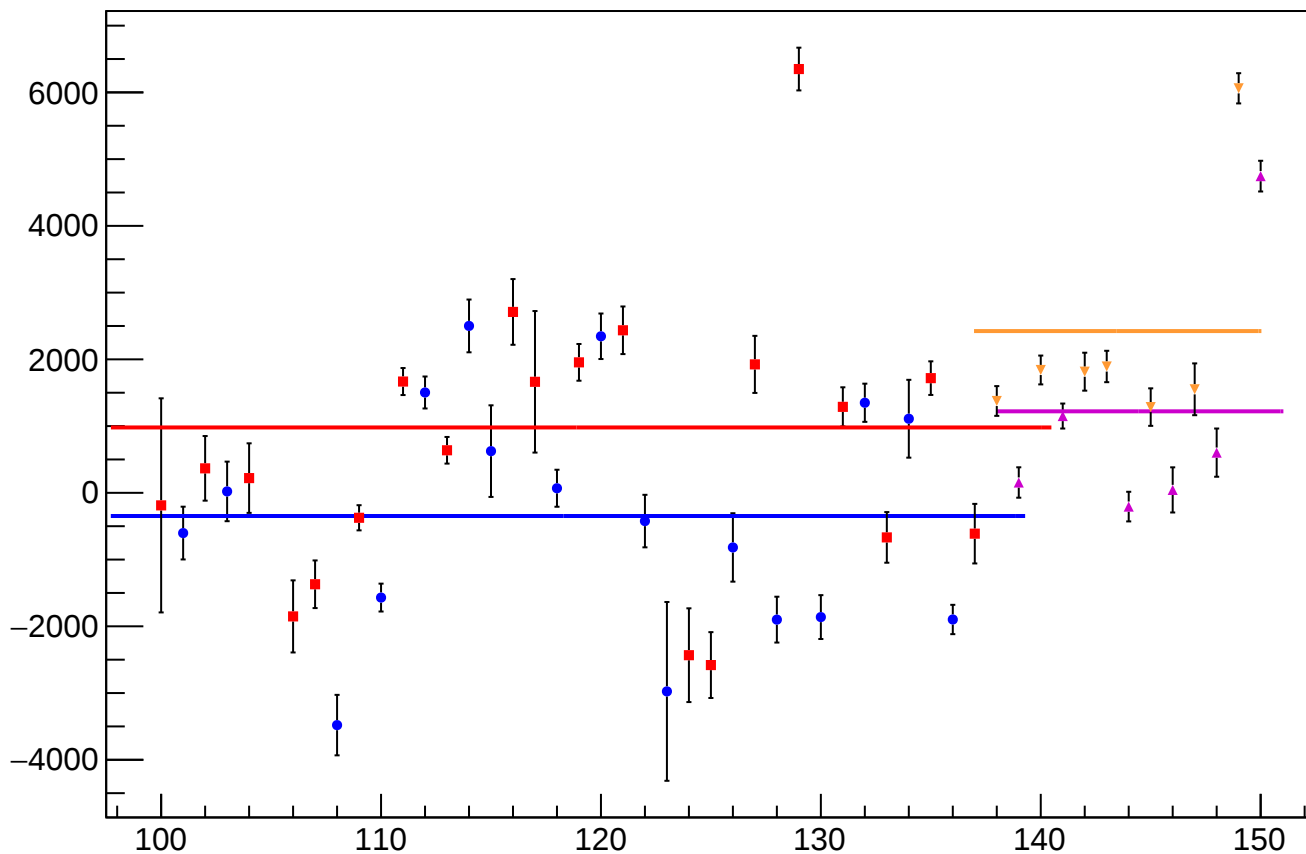
206.095+/-0.044 χ^2/NDF : 1174122.0/23

Right Out: 188.856+/-0.053 χ^2/NDF : 1253327.1/19

197.490+/-0.042 χ^2/NDF : 1758346.2/25

Left In: 212.467+/-0.070 χ^2/NDF :433149.0/5

asym_bpm0l07WS_mean vs Slug



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 2423.668 ± 95.003 χ^2/NDF : 318.4/6

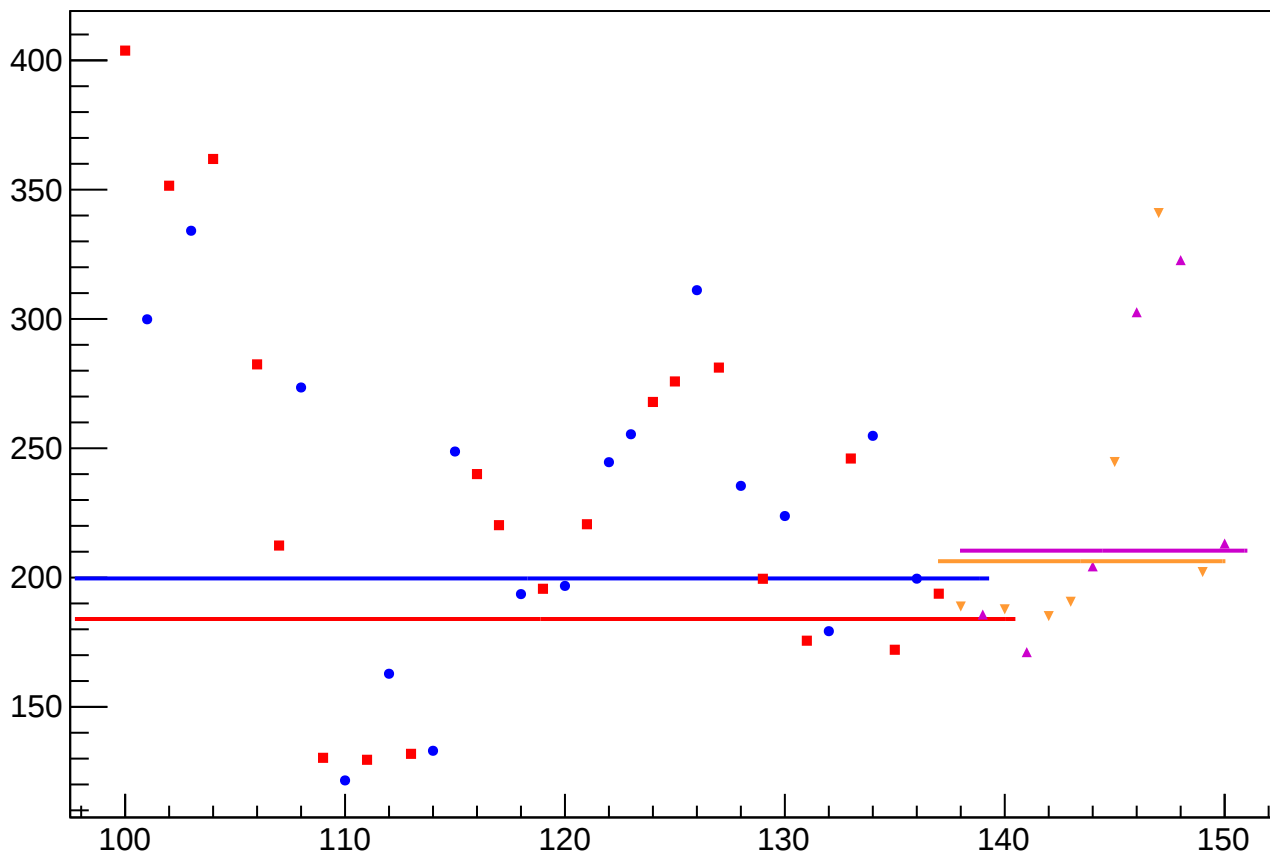
Right Out: 979.606 ± 73.710 χ^2/NDF : 586.1/19

Left In: 1221.221 ± 98.353 χ^2/NDF : 313.0/5

824.429 ± 61.777 χ^2/NDF : 1208.5/23

1066.505 ± 58.984 χ^2/NDF : 902.9/25

asym_bpm0l07WS_rms vs Slug



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 206.329 $\pm$ 0.067 χ^2 /NDF:325780.6/6

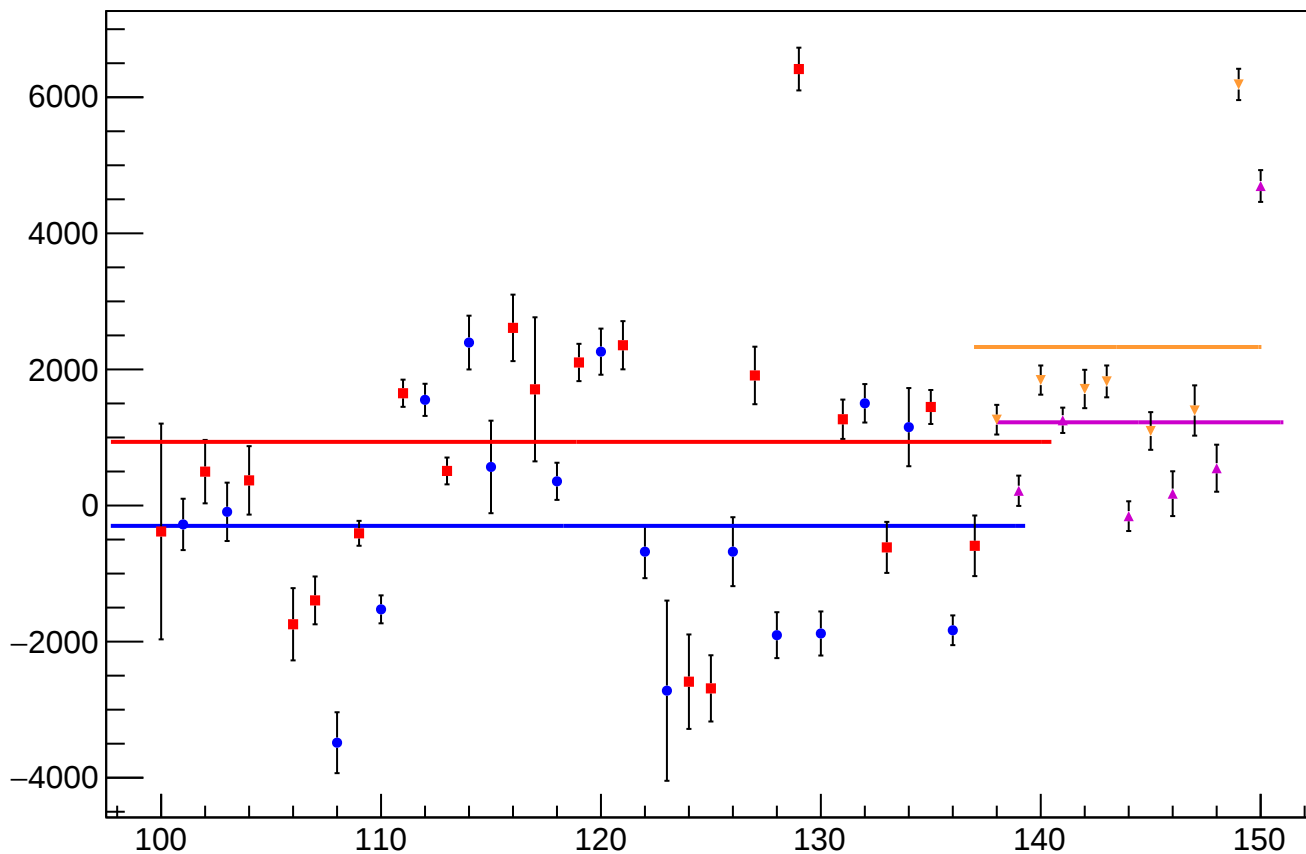
Right Out: 183.984 $\pm$ 0.052 χ^2 /NDF: 1351978.1/19

Left In: 210.409 $\pm$ 0.070 χ^2 /NDF:455131.0/5

202.485 $\pm$ 0.044 χ^2 /NDF: 1274608.3/23

193.488 $\pm$ 0.042 χ^2 /NDF: 1899556.8/25

asym_bpm0l08WS_mean vs Slug



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 2329.712 ± 94.122 $\chi^2/\text{NDF}: 346.3/6$

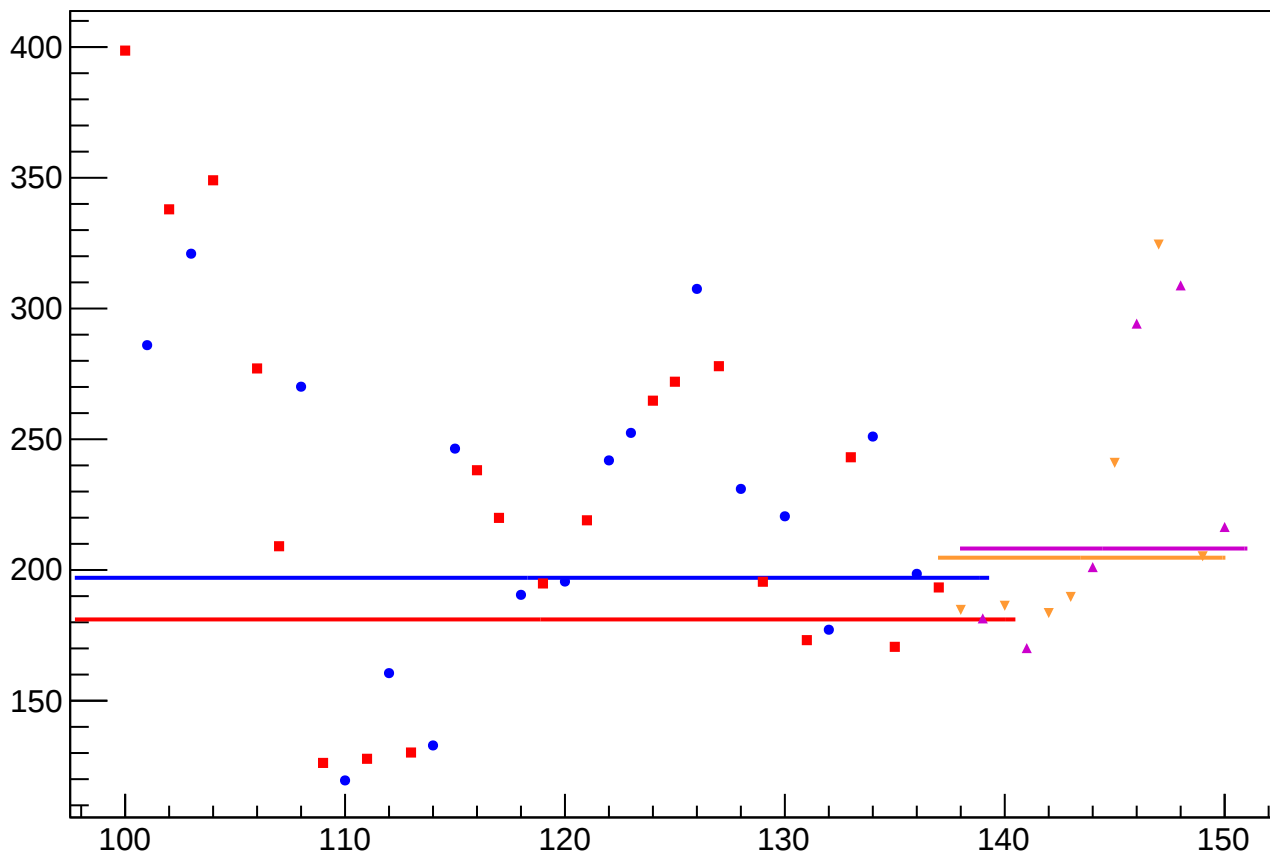
Right Out: 935.490 ± 72.580 $\chi^2/\text{NDF}: 615.3/19$

Left In: 1223.100 ± 97.185 $\chi^2/\text{NDF}: 295.2/5$

806.154 ± 61.028 $\chi^2/\text{NDF}: 1205.0/23$

1038.467 ± 58.152 $\chi^2/\text{NDF}: 916.1/25$

asym_bpm0l08WS_rms vs Slug



Right In: 197.013 ± 0.057 χ^2/NDF : 911923.5/16

Left Out: 204.704 ± 0.067 χ^2/NDF : 295409.4/6

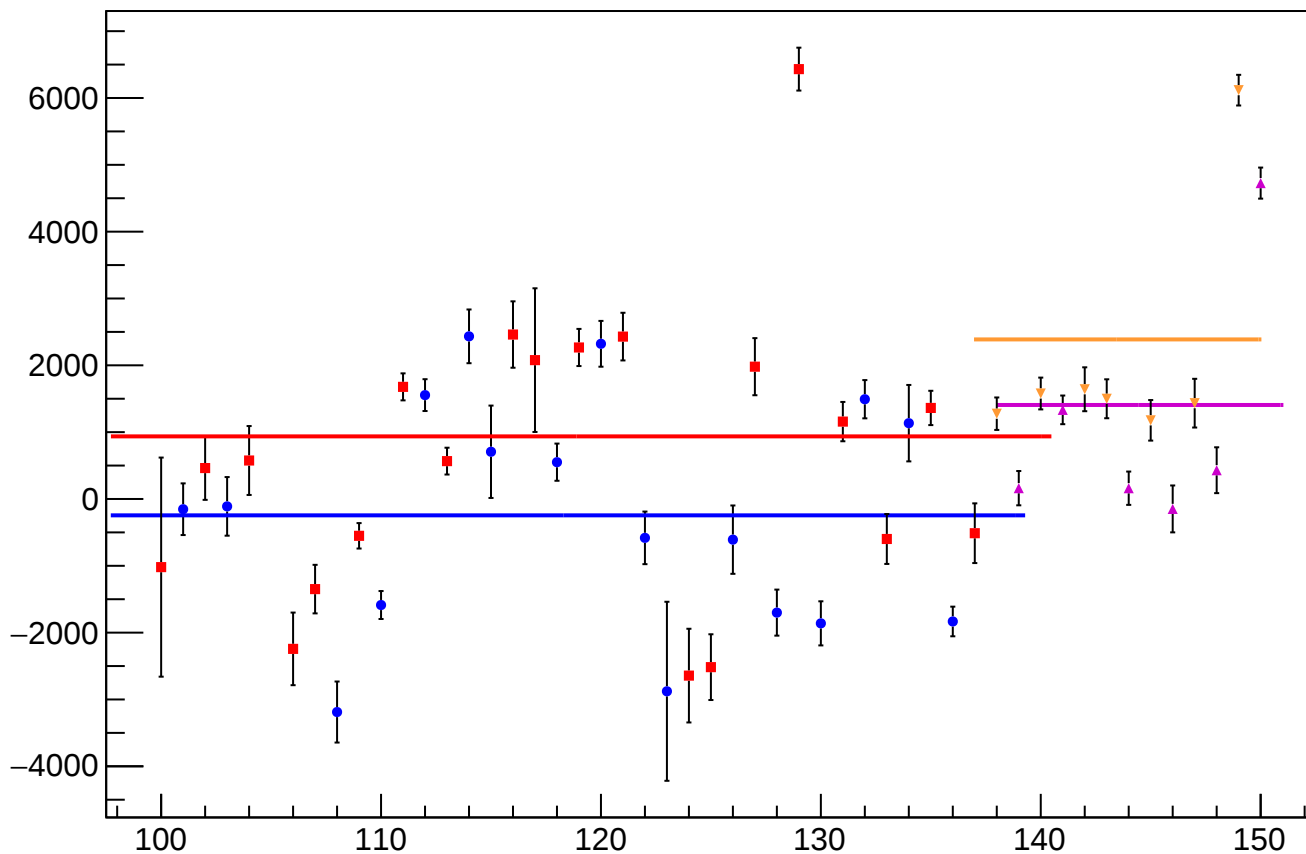
Right Out: 181.089 ± 0.051 χ^2/NDF : 1348390.5/19

Left In: 208.212 ± 0.069 χ^2/NDF : 423126.6/5

200.247 ± 0.043 χ^2/NDF : 1215072.9/23

190.800 ± 0.041 χ^2/NDF : 1871513.8/25

asym_bpm0l09WS_mean vs Slug



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 2387.514 ± 103.643 χ^2/NDF : 334.1/6

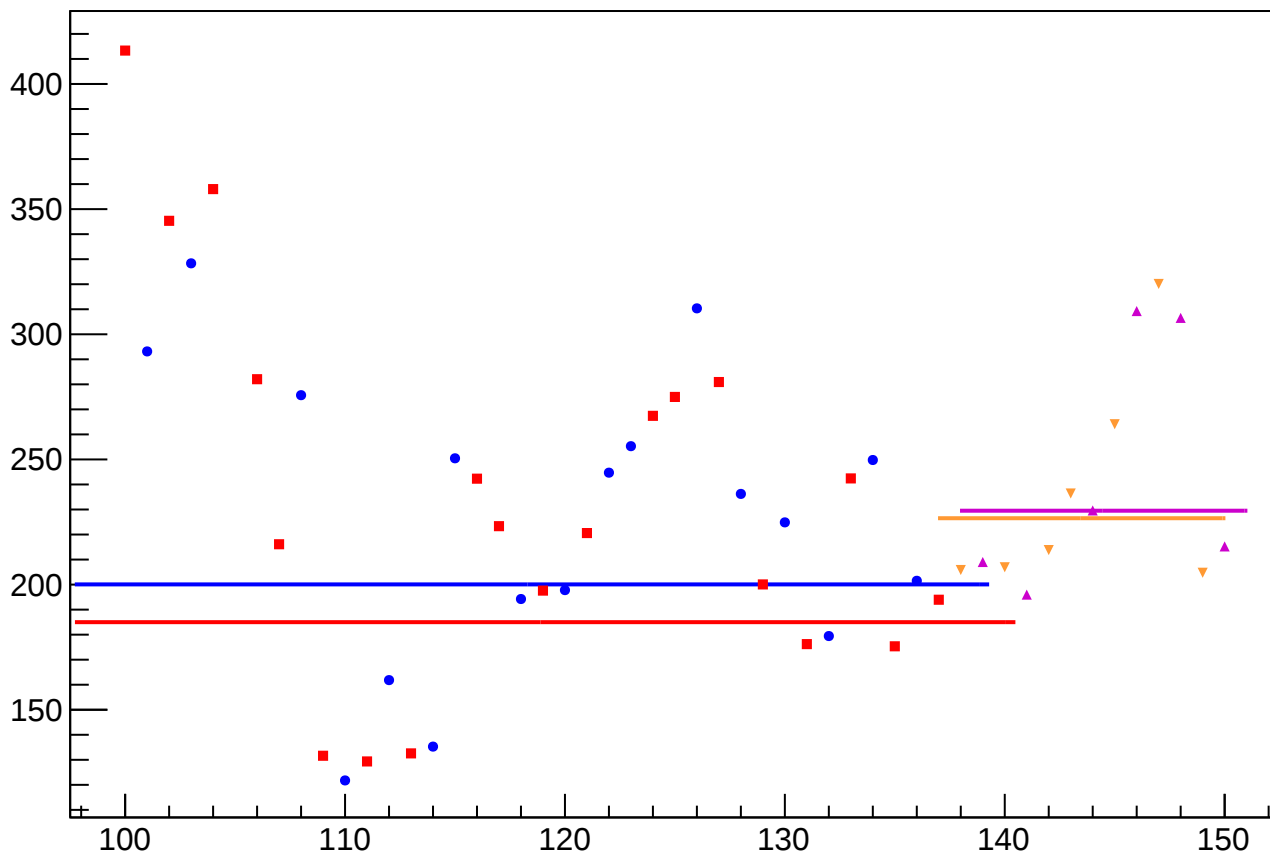
Right Out: 936.709 ± 74.030 χ^2/NDF : 610.9/19

Left In: 1406.569 ± 106.495 χ^2/NDF : 280.5/5

759.288 ± 64.014 χ^2/NDF : 1124.5/23

1089.787 ± 60.786 χ^2/NDF : 904.4/25

asym_bpm0l09WS_rms vs Slug



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 226.516+/-0.073 χ^2/NDF : 213965.3/6

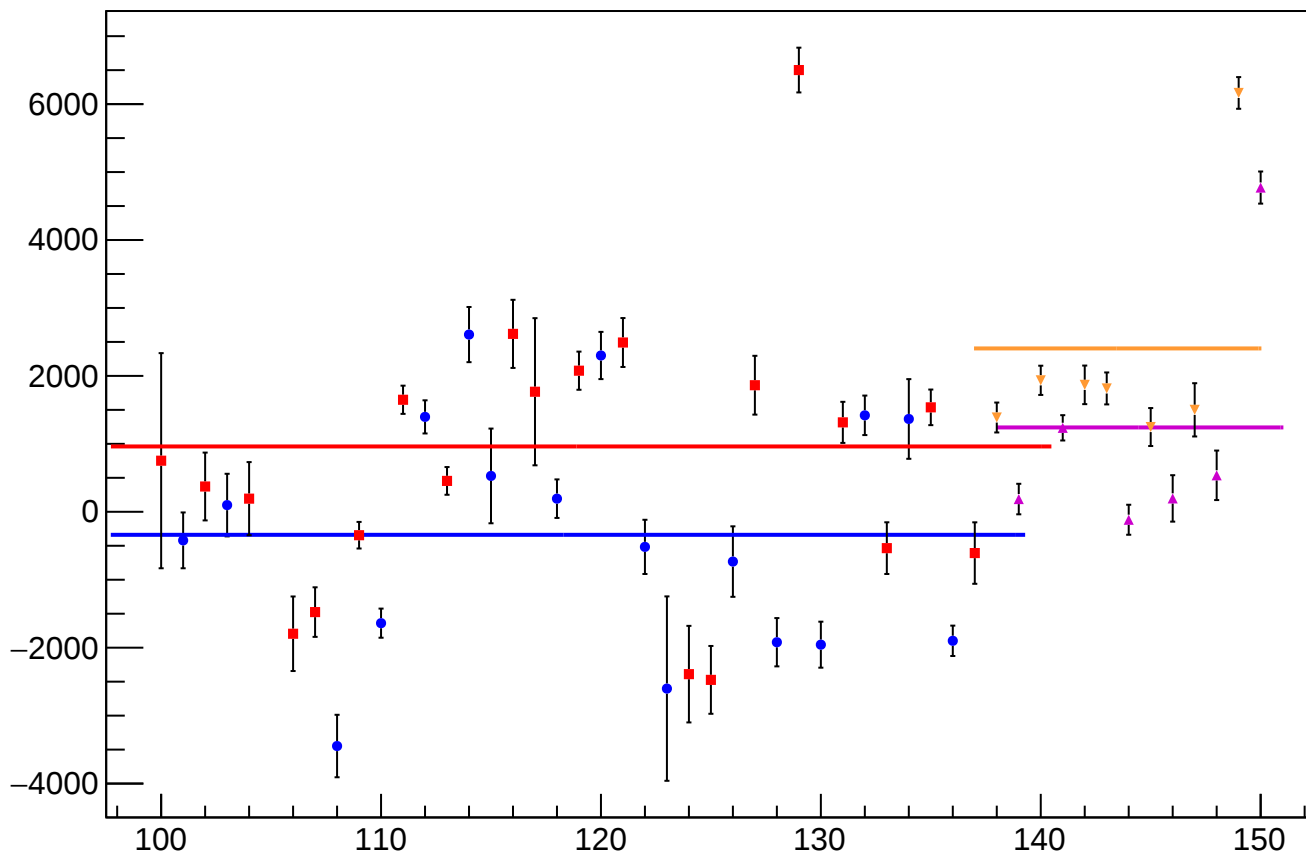
Right Out: 184.990+/-0.052 χ^2/NDF : 1320825.4/19

Left In: 229.518+/-0.075 χ^2/NDF : 273423.4/5

210.164+/-0.045 χ^2/NDF : 1212766.8/23

199.497+/-0.043 χ^2/NDF : 1829984.7/25

asym_bpm0l10WS_mean vs Slug



Right In: -338.966 ± 83.123 χ^2/NDF : 389.5/16

Left Out: 2404.196 ± 95.158 χ^2/NDF : 318.2/6

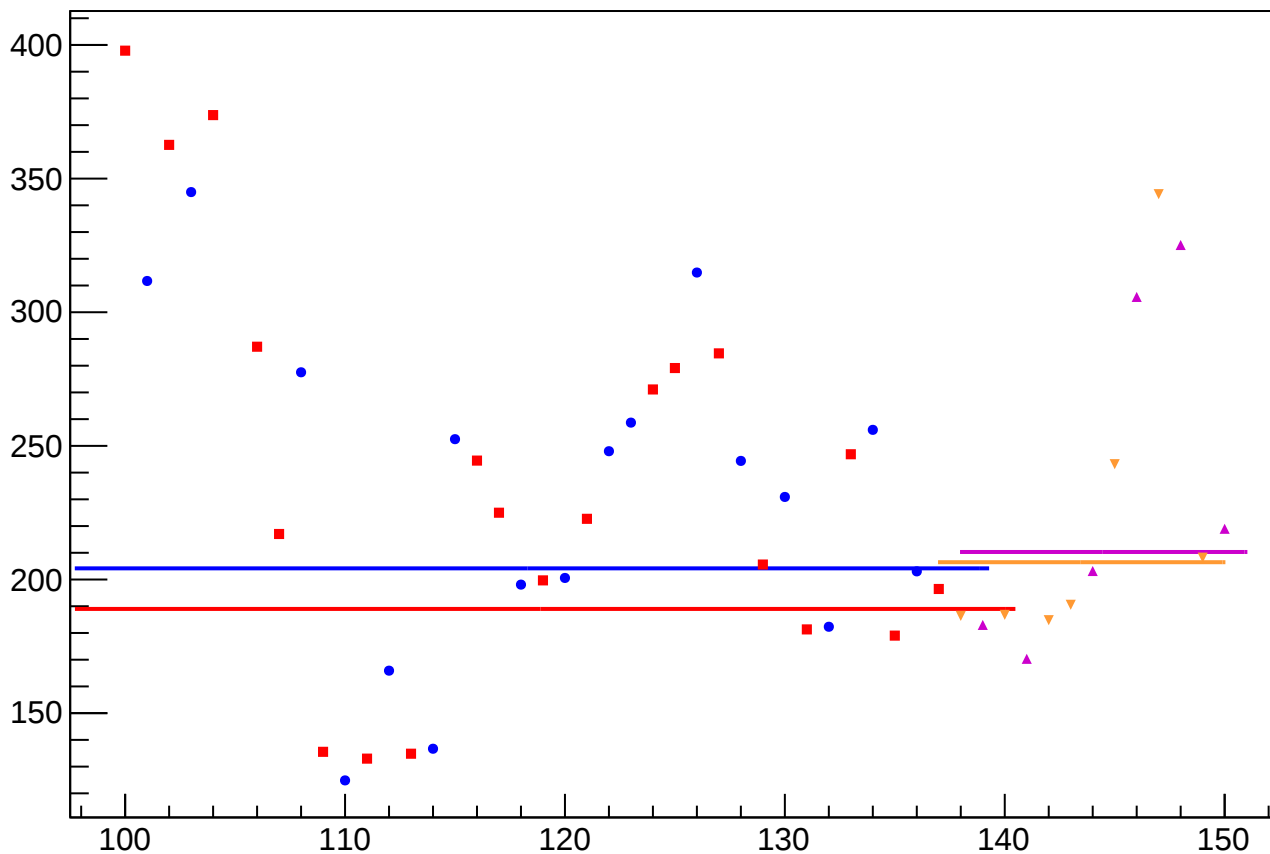
Right Out: 961.556 ± 75.564 χ^2/NDF : 570.9/19

Left In: 1241.479 ± 98.466 χ^2/NDF : 296.1/5

848.266 ± 62.602 χ^2/NDF : 1179.0/23

1065.307 ± 59.946 χ^2/NDF : 872.0/25

asym_bpm0l10WS_rms vs Slug



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 206.476+/-0.067 χ^2/NDF : 335727.1/6

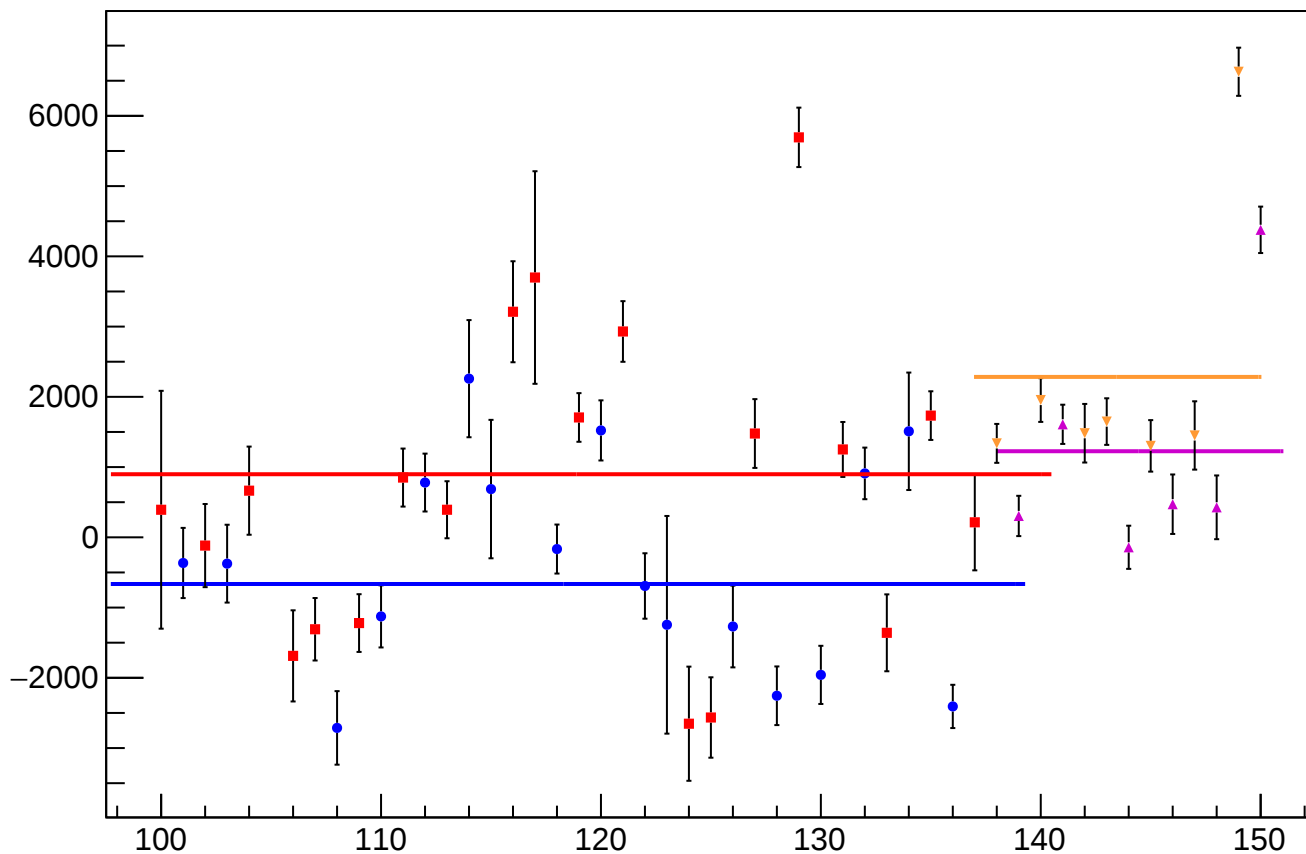
Right Out: 188.997+/-0.053 χ^2/NDF : 1317112.1/19

Left In: 210.303+/-0.070 χ^2/NDF : 481143.9/5

205.171+/-0.044 χ^2/NDF : 1283829.1/23

196.894+/-0.042 χ^2/NDF : 1857190.2/25

asym_bpm0r03WS_mean vs Slug



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 2283.652 ± 130.897 $\chi^2/\text{NDF}: 190.8/6$

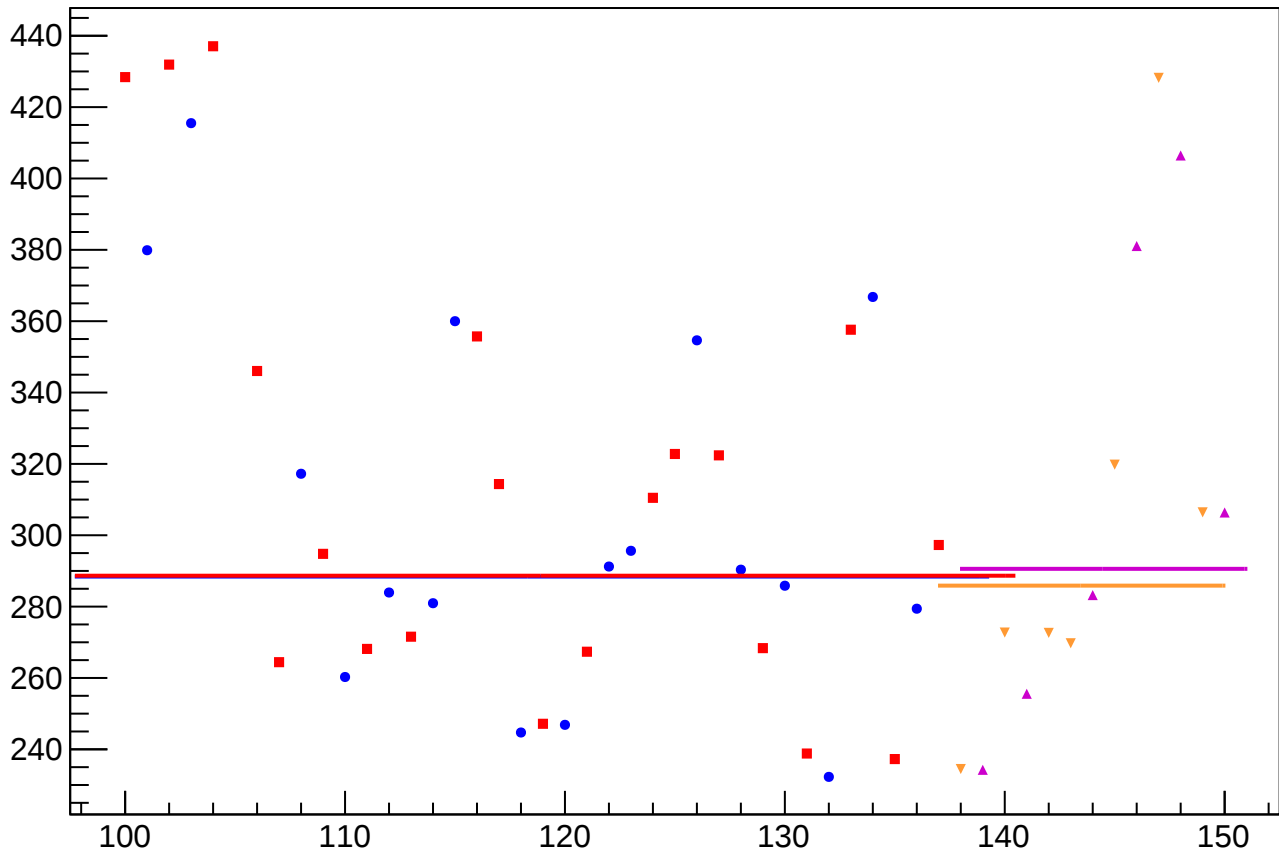
Right Out: 898.290 ± 110.578 $\chi^2/\text{NDF}: 323.5/19$

Left In: 1225.679 ± 134.626 $\chi^2/\text{NDF}: 129.2/5$

606.541 ± 85.946 $\chi^2/\text{NDF}: 633.7/23$

1030.182 ± 85.449 $\chi^2/\text{NDF}: 456.3/25$

asym_bpm0r03WS_rms vs Slug



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 285.880+/-0.093 χ^2/NDF : 274747.7/6

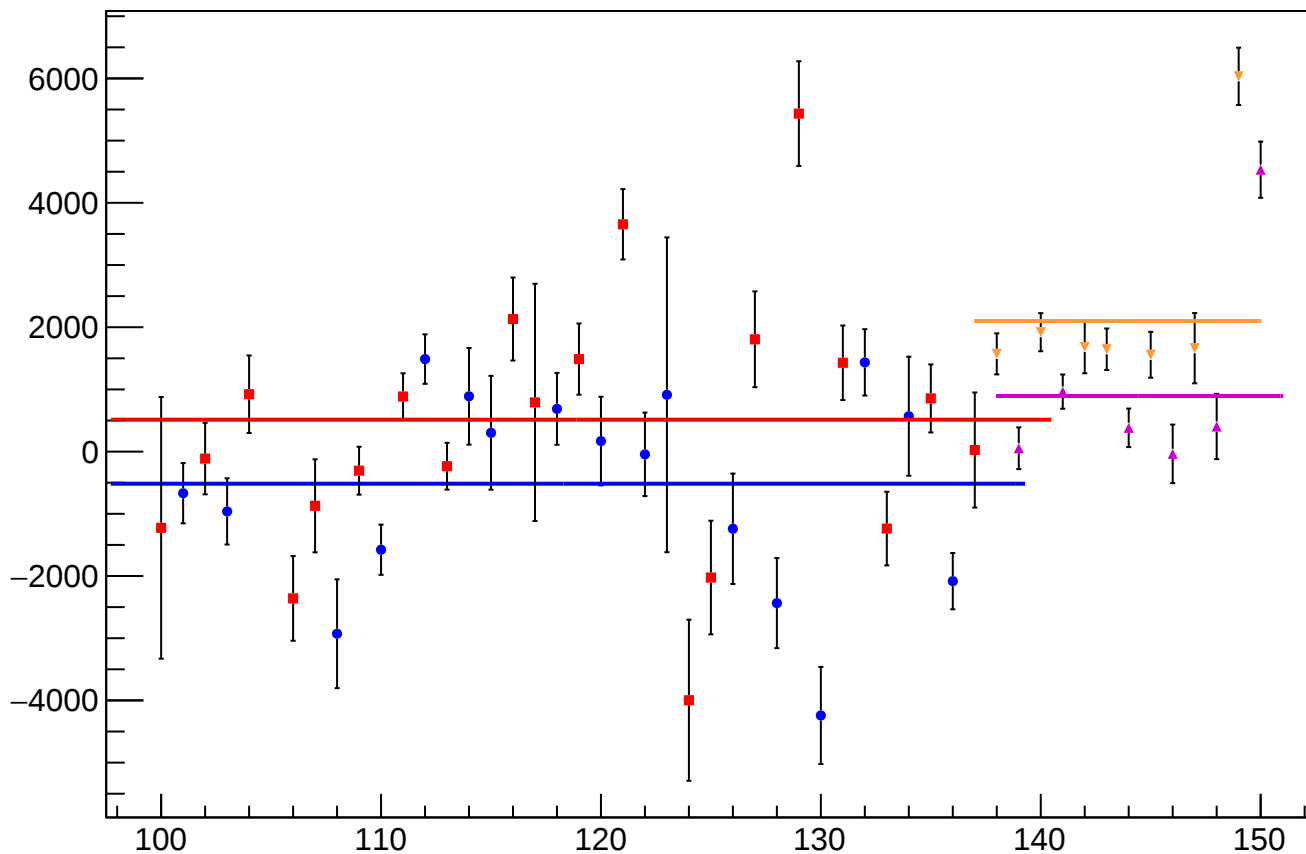
Right Out: 288.660+/-0.078 χ^2/NDF : 455989.7/19

Left In: 290.588+/-0.095 χ^2/NDF : 336096.8/5

287.330+/-0.061 χ^2/NDF : 614998.9/23

289.437+/-0.060 χ^2/NDF : 792331.5/25

asym_bpm0r05WS_mean vs Slug



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 2099.586 ± 141.963 $\chi^2/\text{NDF}: 81.4/6$

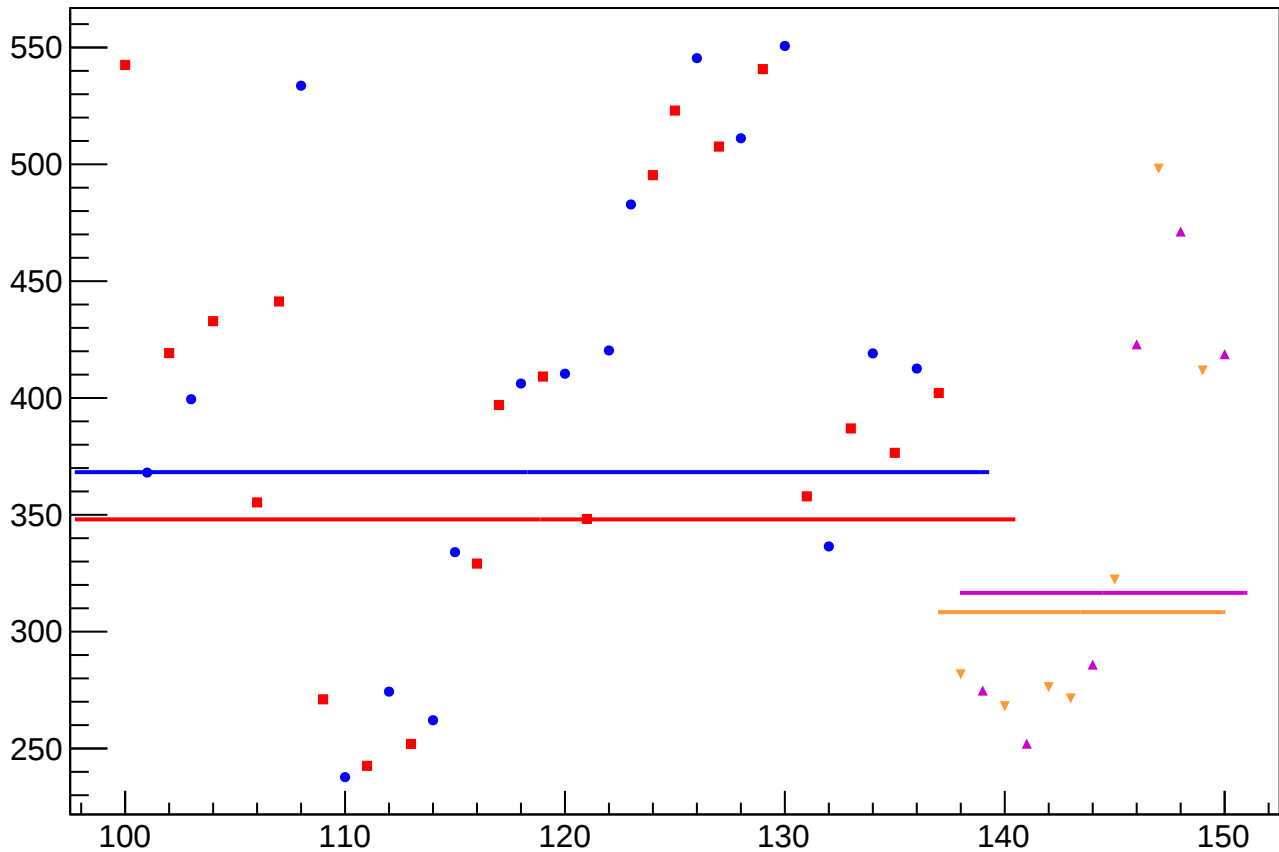
Right Out: 513.264 ± 135.456 $\chi^2/\text{NDF}: 141.3/19$

Left In: 893.925 ± 148.135 $\chi^2/\text{NDF}: 78.7/5$

840.320 ± 102.226 $\chi^2/\text{NDF}: 352.9/23$

686.609 ± 99.964 $\chi^2/\text{NDF}: 223.6/25$

asym_bpm0r05WS_rms vs Slug



Right In: 368.264 ± 0.104 χ^2/NDF : 770116.6/16

Left Out: 308.342 ± 0.100 χ^2/NDF : 413307.2/6

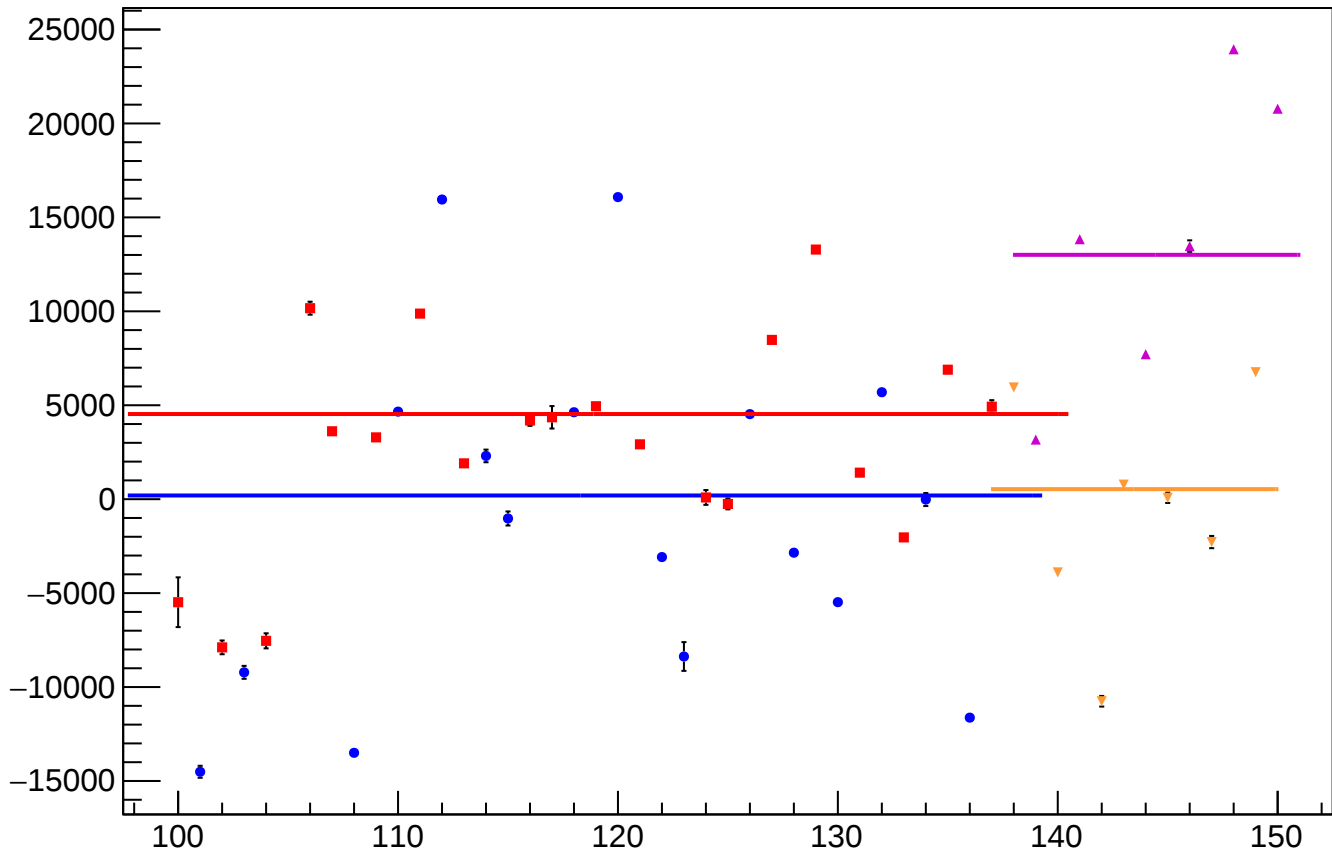
Right Out: 348.050 ± 0.096 χ^2/NDF : 823186.4/19

Left In: 316.596 ± 0.105 χ^2/NDF : 539164.1/5

337.193 ± 0.072 χ^2/NDF : 1354984.9/23

333.727 ± 0.071 χ^2/NDF : 1411459.1/25

asym_bpm0i02WS_mean vs Slug



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: 534.777 ± 91.505 $\chi^2/\text{NDF}: 3593.6/6$

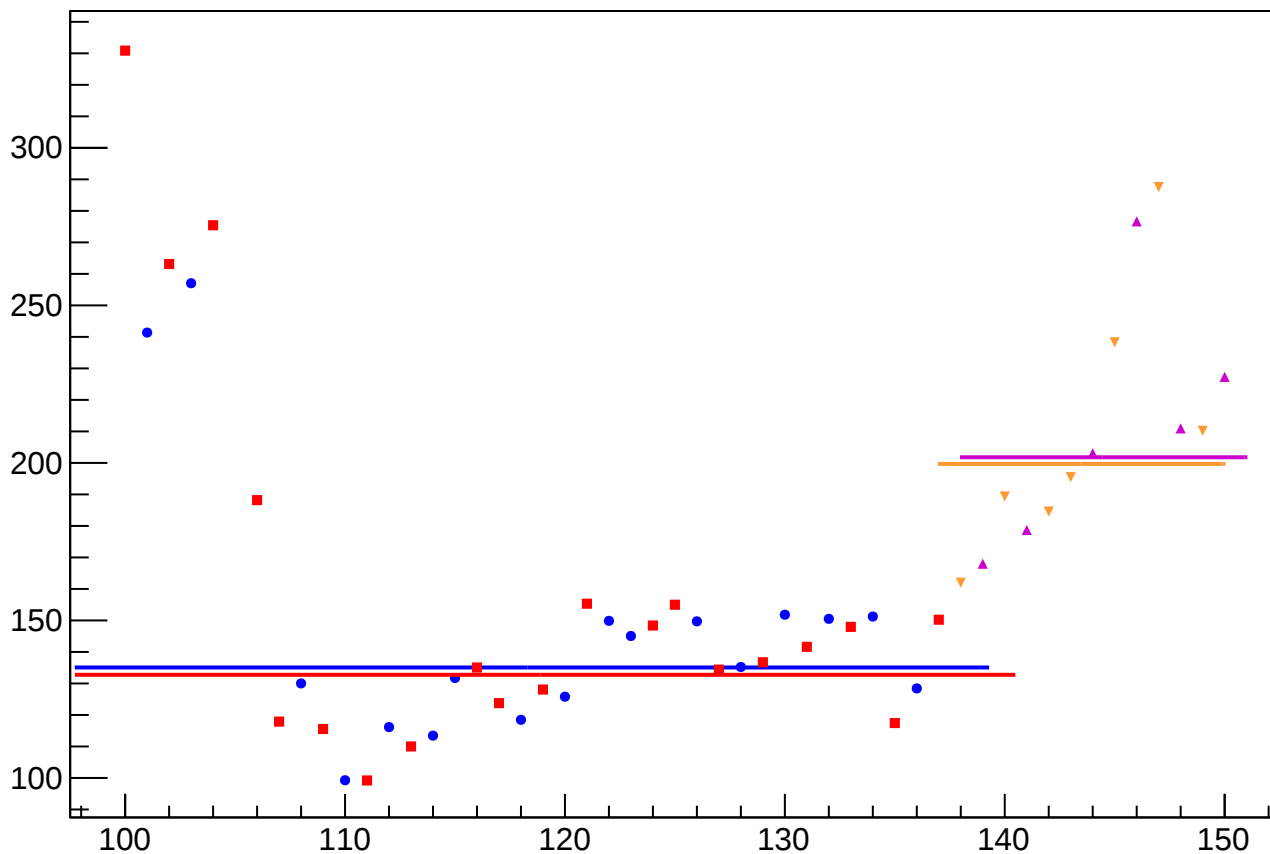
Right Out: 4532.856 ± 52.261 $\chi^2/\text{NDF}: 7477.3/19$

Left In: 13006.402 ± 93.559 $\chi^2/\text{NDF}: 5882.9/5$

286.167 ± 47.013 $\chi^2/\text{NDF}: 34261.9/23$

6548.003 ± 45.626 $\chi^2/\text{NDF}: 19612.2/25$

asym_bpm0i02WS_rms vs Slug



Right In: 135.072 ± 0.039 χ^2/NDF : 658703.5/16

Left Out: 199.686 ± 0.065 χ^2/NDF : 278513.3/6

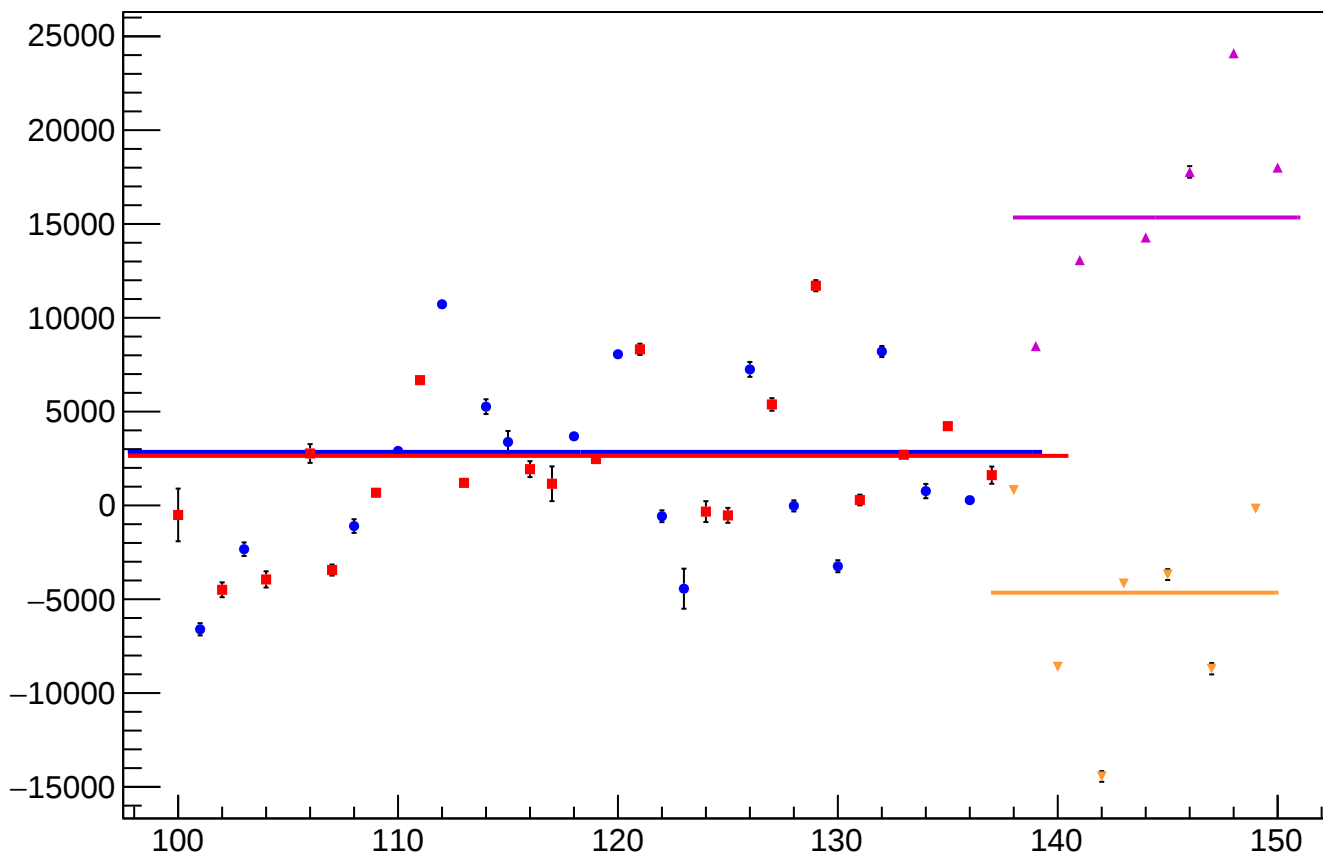
Right Out: 132.747 ± 0.037 χ^2/NDF : 831647.2/19

Left In: 201.795 ± 0.066 χ^2/NDF : 224851.8/5

152.128 ± 0.033 χ^2/NDF : 1671221.3/23

149.168 ± 0.032 χ^2/NDF : 1886758.9/25

asym_bpm0i02aWS_mean vs Slug



Right In: 2851.437 ± 70.753 χ^2/NDF : 4178.1/16

Left Out: -4649.754 ± 91.699 χ^2/NDF : 2844.6/6

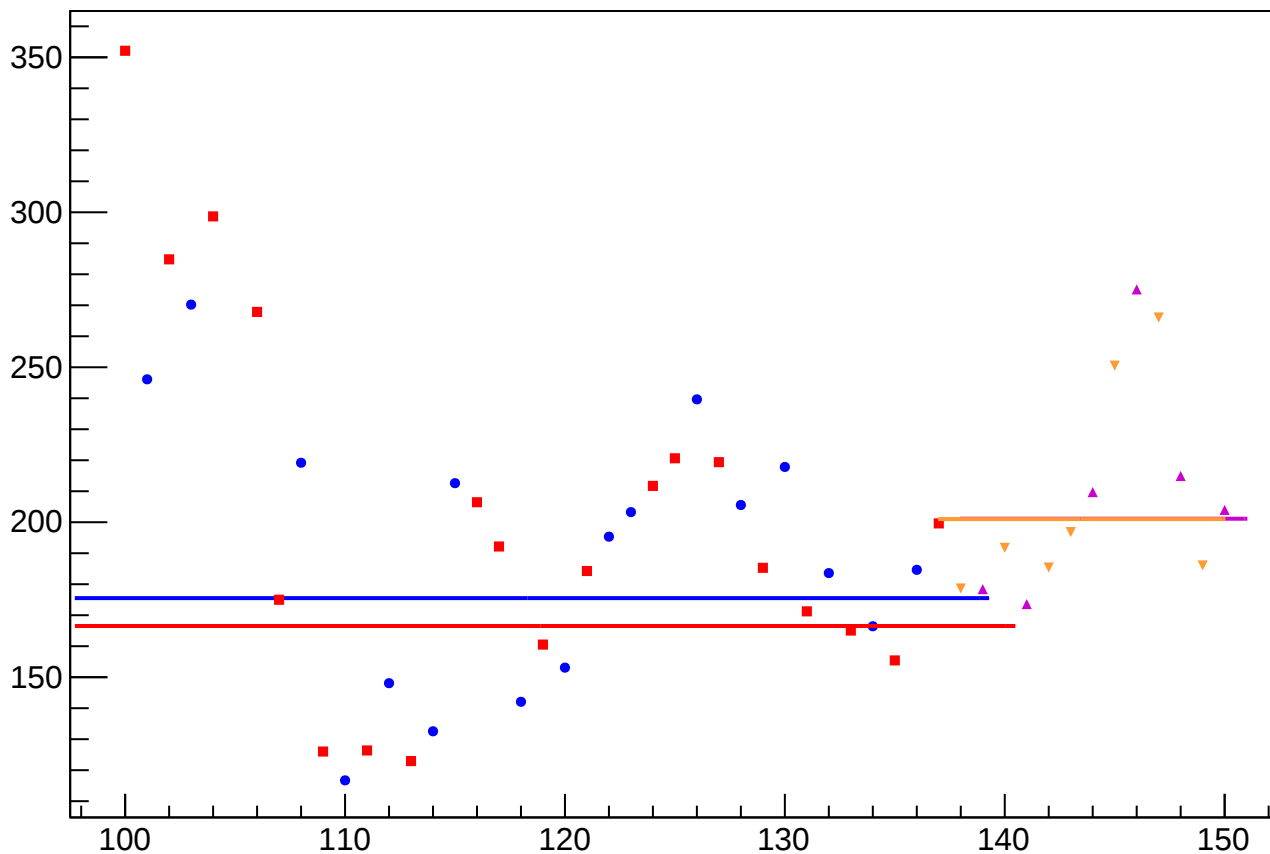
Right Out: 2641.642 ± 65.566 χ^2/NDF : 3178.3/19

Left In: 15346.210 ± 92.839 χ^2/NDF : 2640.5/5

52.174 ± 56.017 χ^2/NDF : 11217.3/23

6869.464 ± 53.556 χ^2/NDF : 18313.5/25

asym_bpm0i02aWS_rms vs Slug



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 201.008+/-0.065 χ^2/NDF :195118.2/6

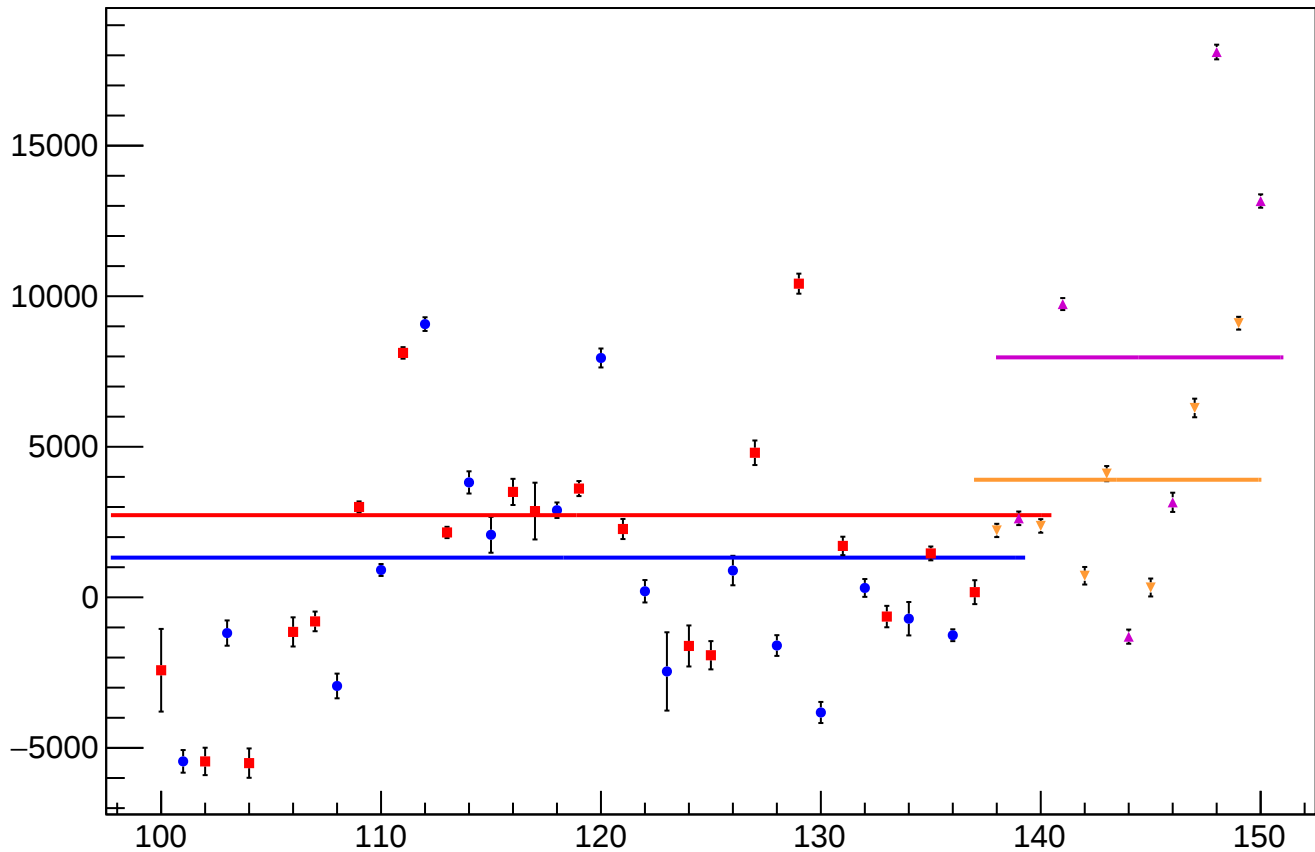
Right Out: 166.522+/-0.046 χ^2/NDF : 931079.9/19

Left In: 201.135+/-0.066 χ^2/NDF :189500.5/5

185.028+/-0.040 χ^2/NDF : 981661.9/23

178.041+/-0.038 χ^2/NDF : 1306065.1/25

asym_bpm0i05WS_mean vs Slug



Right In: 1319.009 ± 77.146 χ^2/NDF : 2667.0/16

Left Out: 3905.031 ± 94.709 χ^2/NDF : 1023.6/6

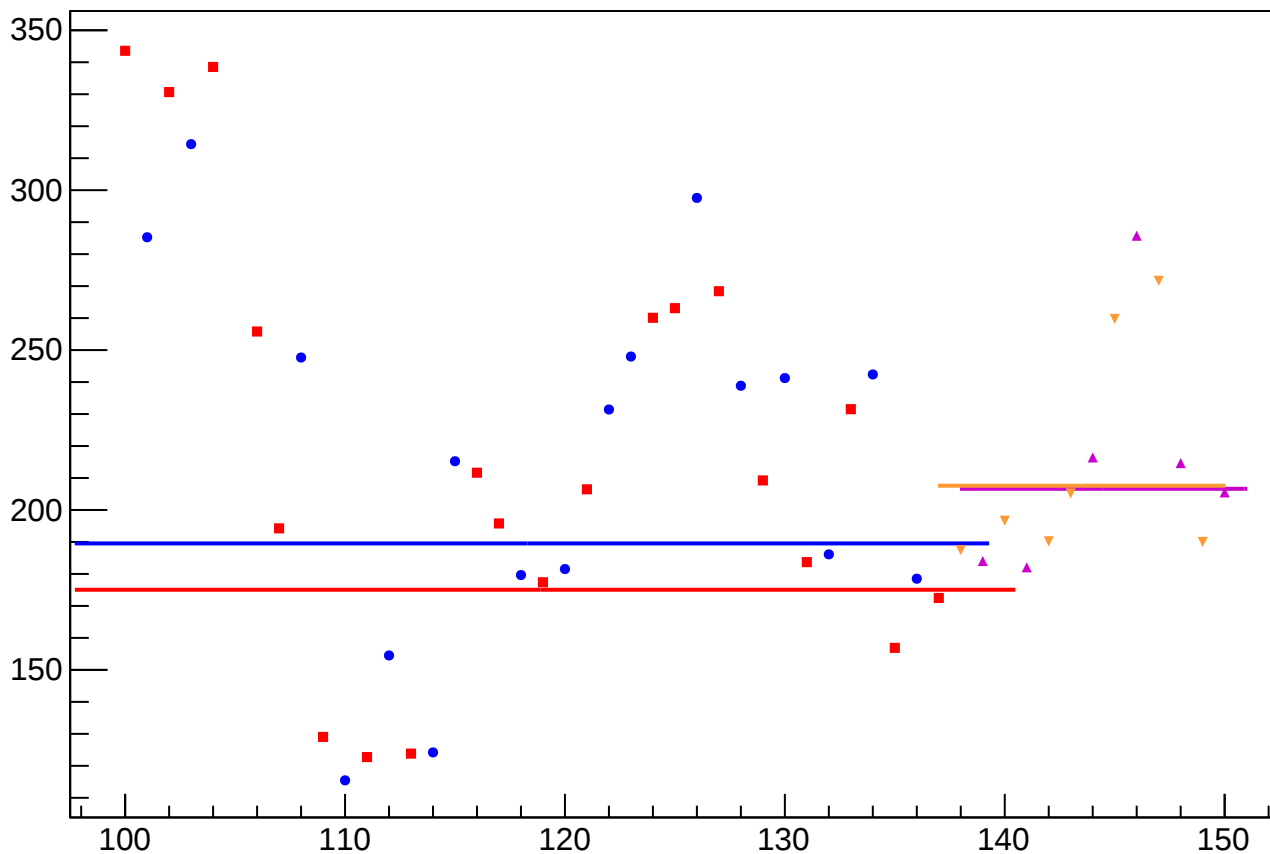
Right Out: 2728.550 ± 69.837 χ^2/NDF : 2495.9/19

Left In: 7969.050 ± 95.367 χ^2/NDF : 4702.9/5

2350.463 ± 59.814 χ^2/NDF : 4138.8/23

4557.830 ± 56.345 χ^2/NDF : 9164.4/25

asym_bpm0i05WS_rms vs Slug



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 207.587+/-0.067 χ^2/NDF : 189657.2/6

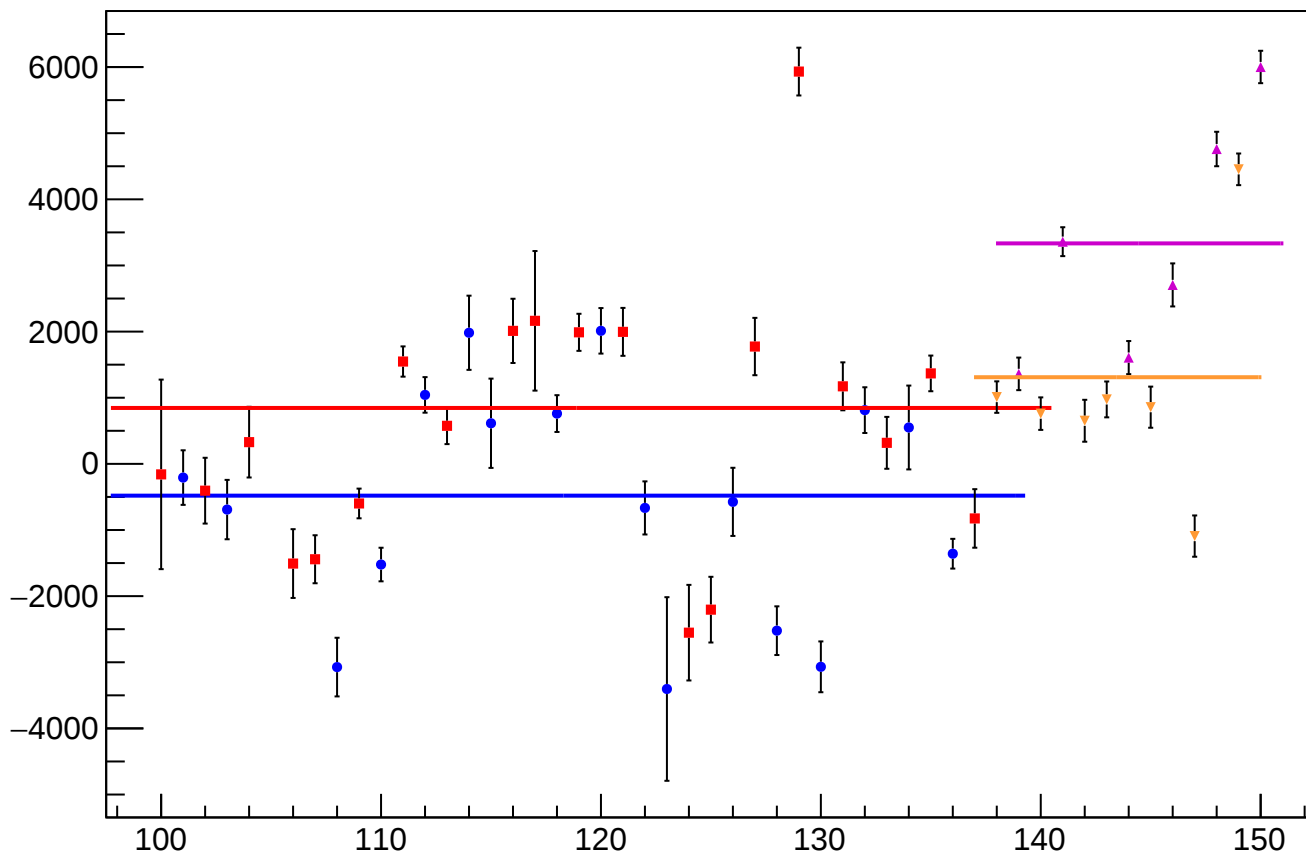
Right Out: 175.058+/-0.049 χ^2/NDF : 1298079.7/19

Left In: 206.629+/-0.067 χ^2/NDF : 178878.3/5

196.741+/-0.042 χ^2/NDF : 1214035.9/23

186.078+/-0.040 χ^2/NDF : 1619632.4/25

asym_bpm0i07WS_mean vs Slug



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 1310.206+/-102.150 χ^2/NDF : 246.4/6

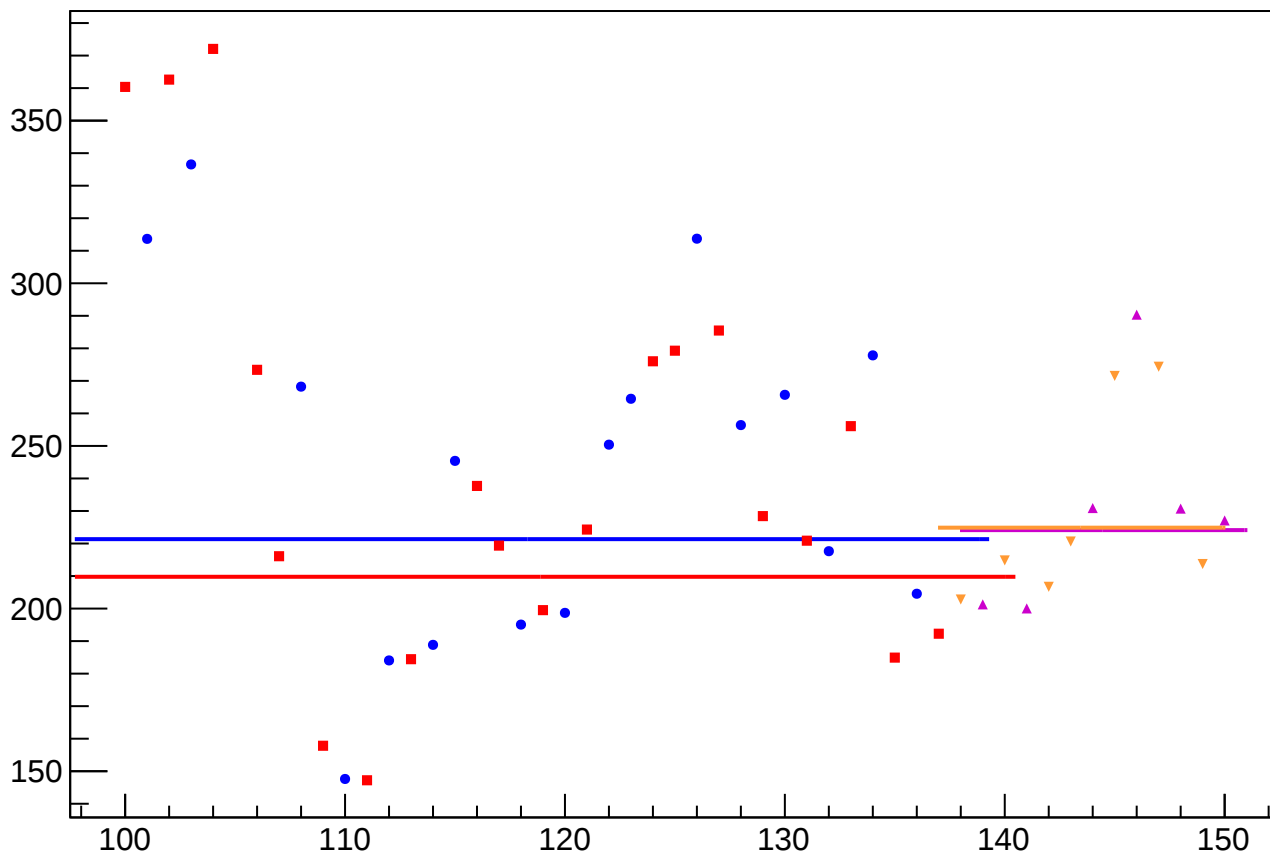
Right Out: 845.444+/-81.995 χ^2/NDF : 436.9/19

Left In: 3333.815+/-103.011 χ^2/NDF : 264.1/5

288.644+/-66.949 χ^2/NDF : 712.4/23

1810.556+/-64.153 χ^2/NDF : 1058.2/25

asym_bpm0i07WS_rms vs Slug



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.873 $\pm$ 0.072 χ^2 /NDF: 127286.3/6

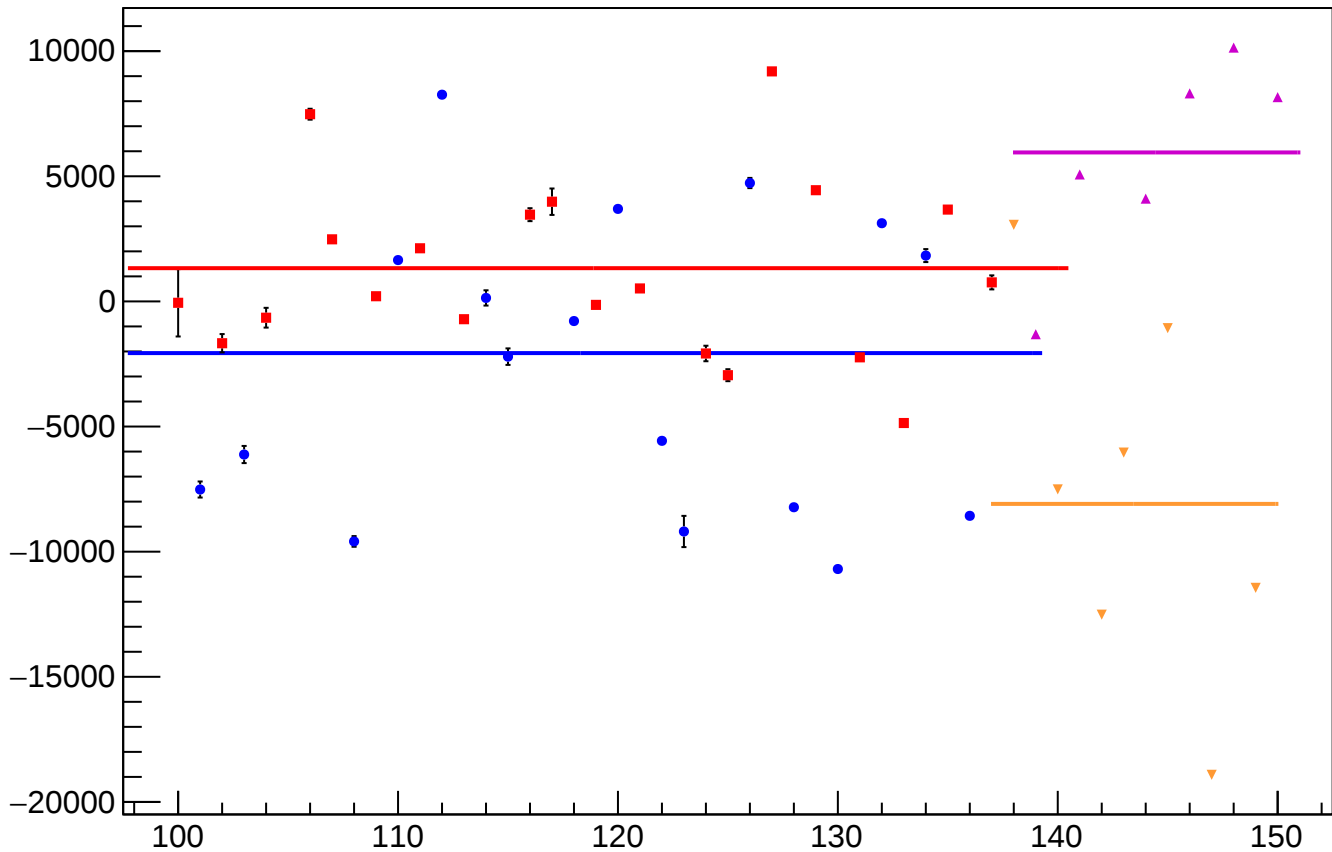
Right Out: 209.775 $\pm$ 0.058 χ^2 /NDF: 884083.7/19

Left In: 224.119 $\pm$ 0.073 χ^2 /NDF: 127352.1/5

222.859 $\pm$ 0.047 χ^2 /NDF: 774337.3/23

215.338 $\pm$ 0.045 χ^2 /NDF: 1035174.8/25

asym_bpm1i02WS_mean vs Slug



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -8091.079+/-48.909 χ^2/NDF :19866.3/6

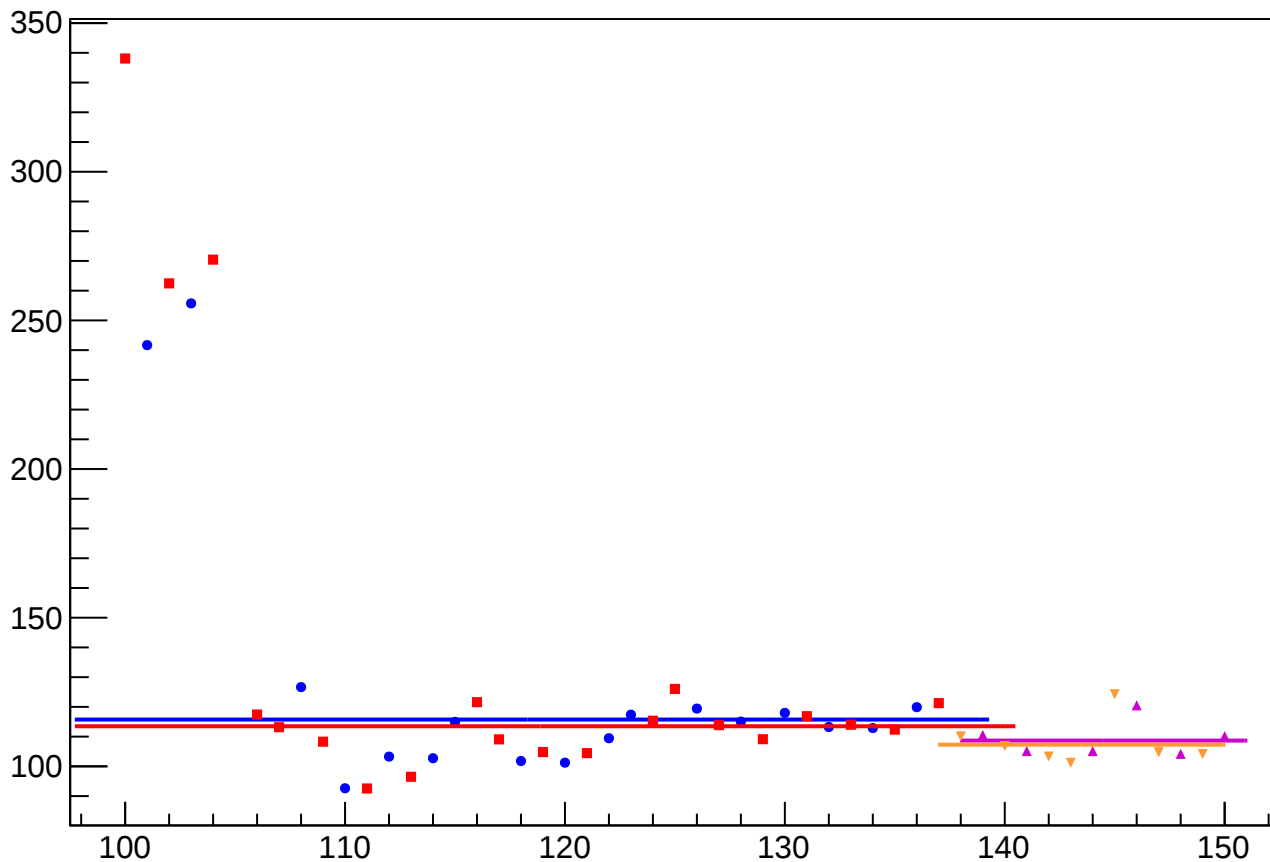
Right Out: 1327.819+/-44.838 χ^2/NDF : 5919.9/19

Left In: 5952.278+/-49.901 χ^2/NDF :5060.7/5

-4978.771+/-34.009 χ^2/NDF : 44239.7/23

3393.609+/-33.352 χ^2/NDF : 15732.3/25

asym_bpm1i02WS_rms vs Slug



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 107.282 $\pm$ 0.035 χ^2 /NDF: 37087.9/6

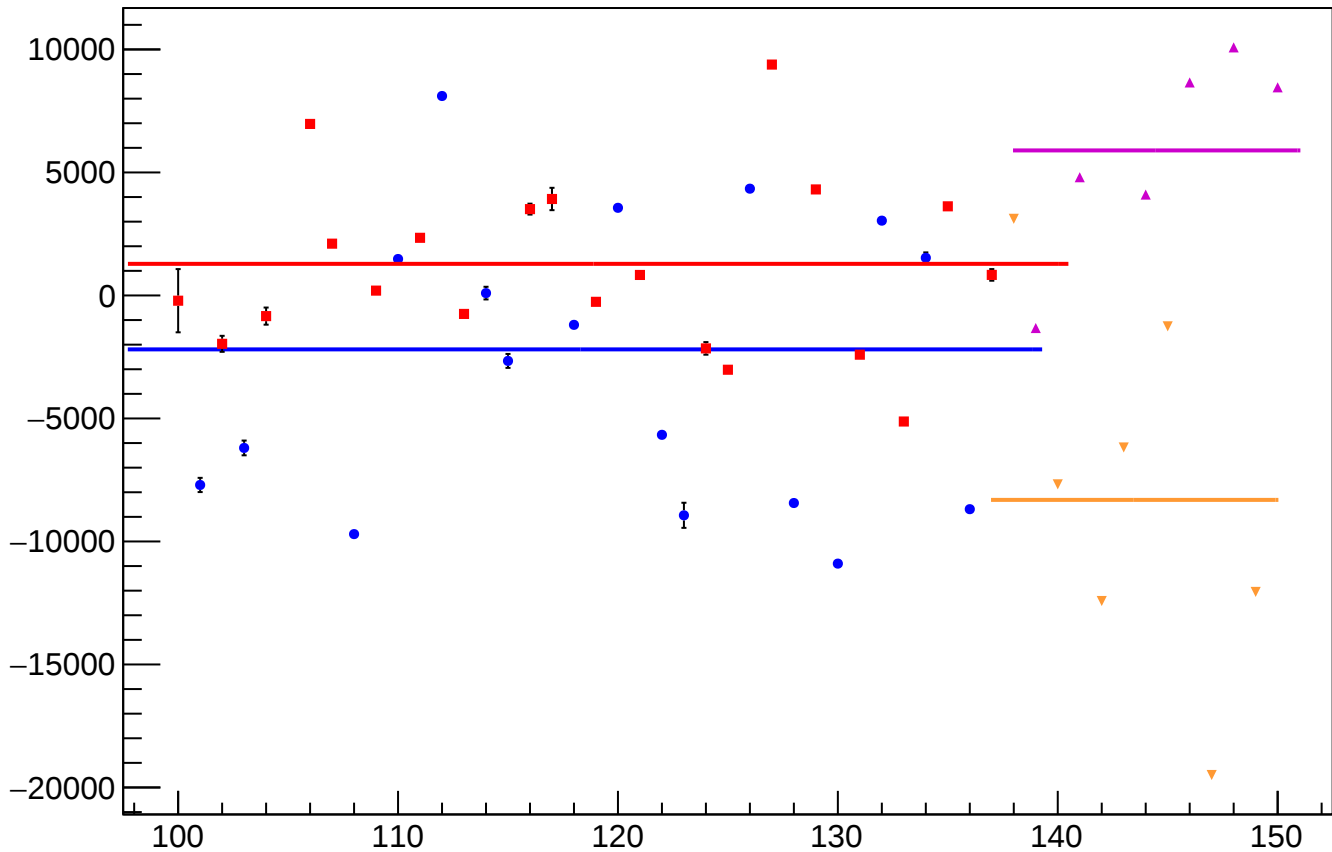
Right Out: 113.487 $\pm$ 0.032 χ^2 /NDF: 796781.7/19

Left In: 108.673 $\pm$ 0.035 χ^2 /NDF: 22739.8/5

111.651 $\pm$ 0.024 χ^2 /NDF: 812000.9/23

111.336 $\pm$ 0.024 χ^2 /NDF: 829820.6/25

asym_bpm1i04WS_mean vs Slug



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -8310.142 ± 45.401 $\chi^2/\text{NDF}: 23755.9/6$

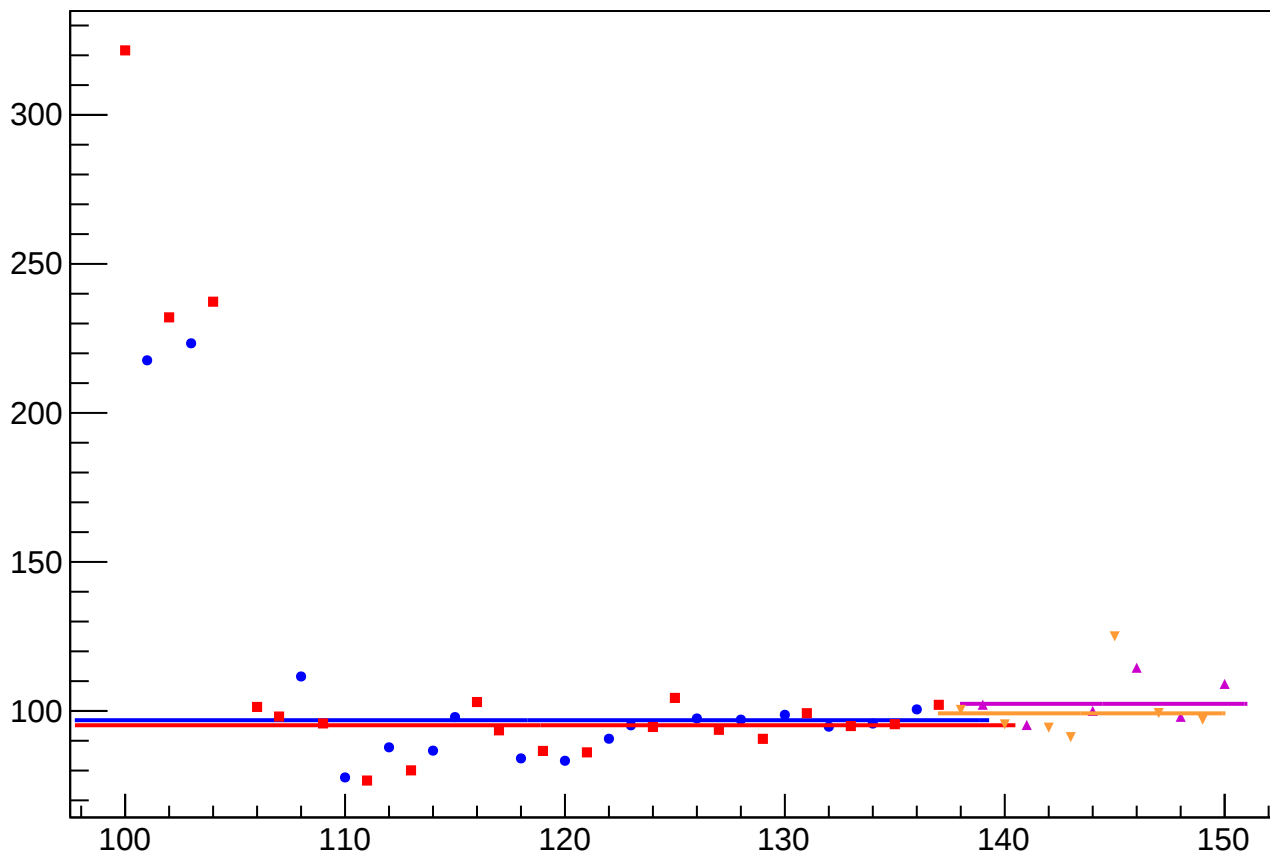
Right Out: 1284.692 ± 37.915 $\chi^2/\text{NDF}: 8584.4/19$

Left In: 5895.427 ± 47.117 $\chi^2/\text{NDF}: 6004.5/5$

-4861.643 ± 29.989 $\chi^2/\text{NDF}: 56804.6/23$

3096.900 ± 29.539 $\chi^2/\text{NDF}: 20401.2/25$

asym_bpm1i04WS_rms vs Slug



Right In: 96.894 ± 0.028 χ^2/NDF : 817229.9/16

Left Out: 99.196 ± 0.032 χ^2/NDF : 78873.8/6

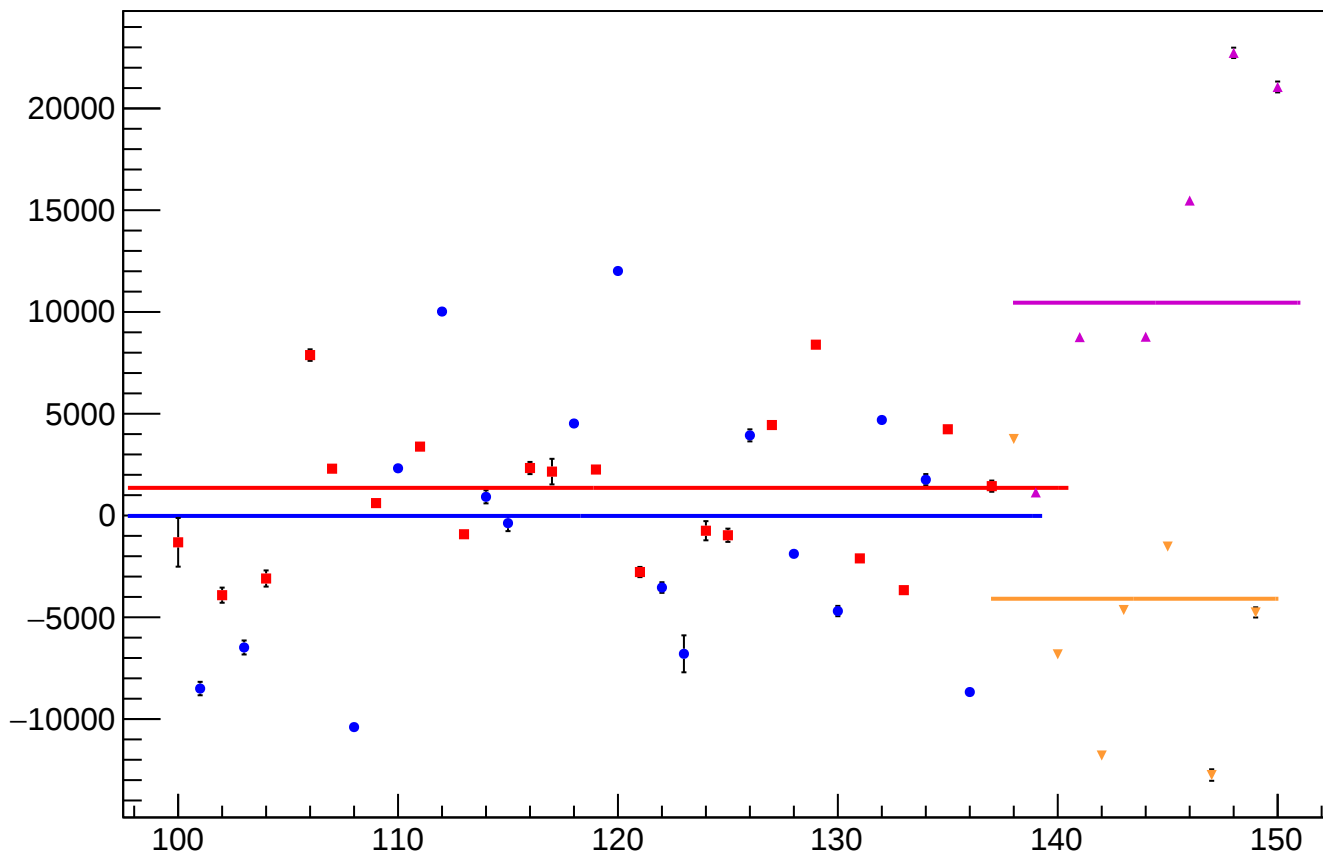
Right Out: 95.201 ± 0.027 χ^2/NDF : 859838.2/19

Left In: 102.391 ± 0.033 χ^2/NDF : 37453.4/5

97.898 ± 0.021 χ^2/NDF : 899002.3/23

98.027 ± 0.021 χ^2/NDF : 925552.2/25

asym_bpm1i06WS_mean vs Slug



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -4089.082 ± 75.715 $\chi^2/\text{NDF}: 4924.0/6$

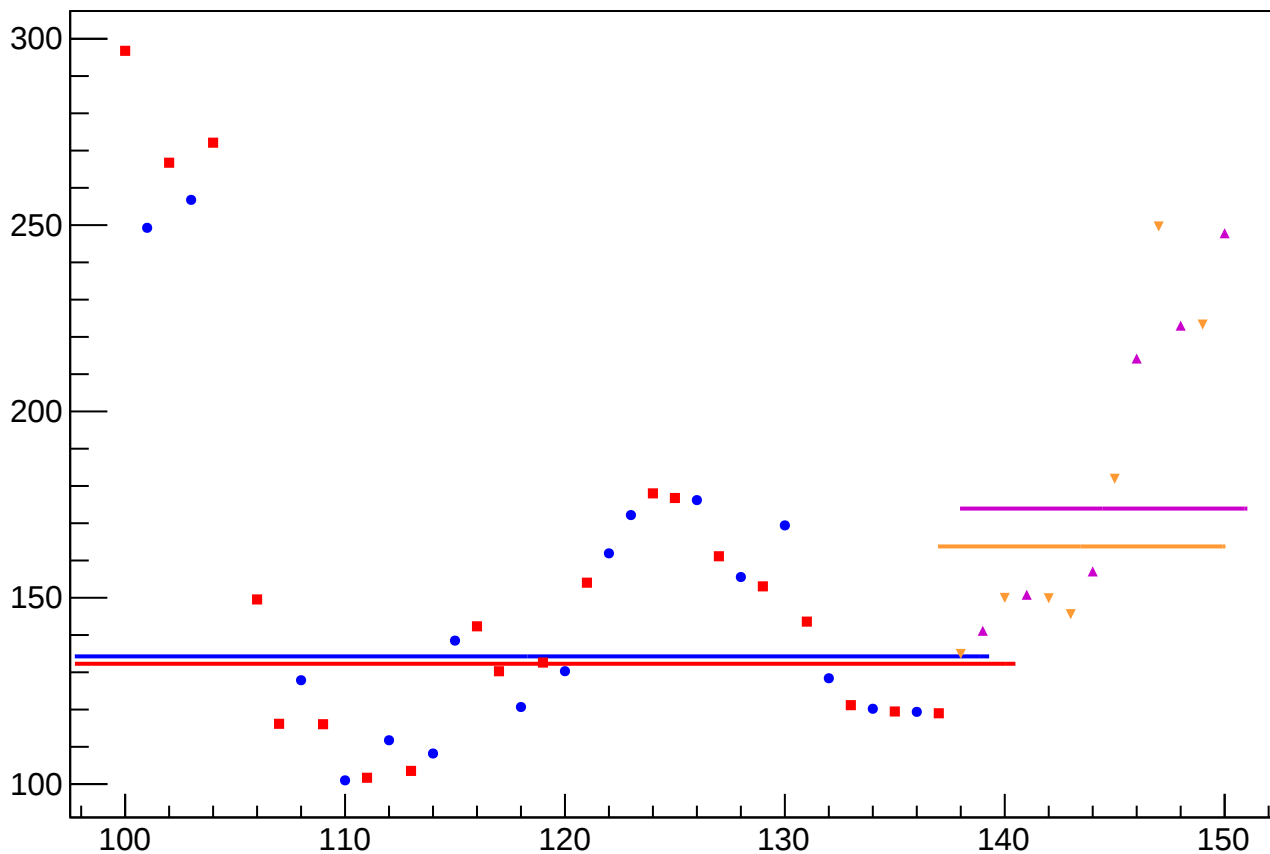
Right Out: 1359.001 ± 52.186 $\chi^2/\text{NDF}: 3838.8/19$

Left In: 10455.723 ± 81.378 $\chi^2/\text{NDF}: 7420.7/5$

-1413.548 ± 44.309 $\chi^2/\text{NDF}: 23184.1/23$

4009.803 ± 43.929 $\chi^2/\text{NDF}: 20113.8/25$

asym_bpm1i06WS_rms vs Slug



Right In: 134.268+/-0.039 χ^2/NDF : 788647.0/16

Left Out: 163.770+/-0.054 χ^2/NDF : 419687.2/6

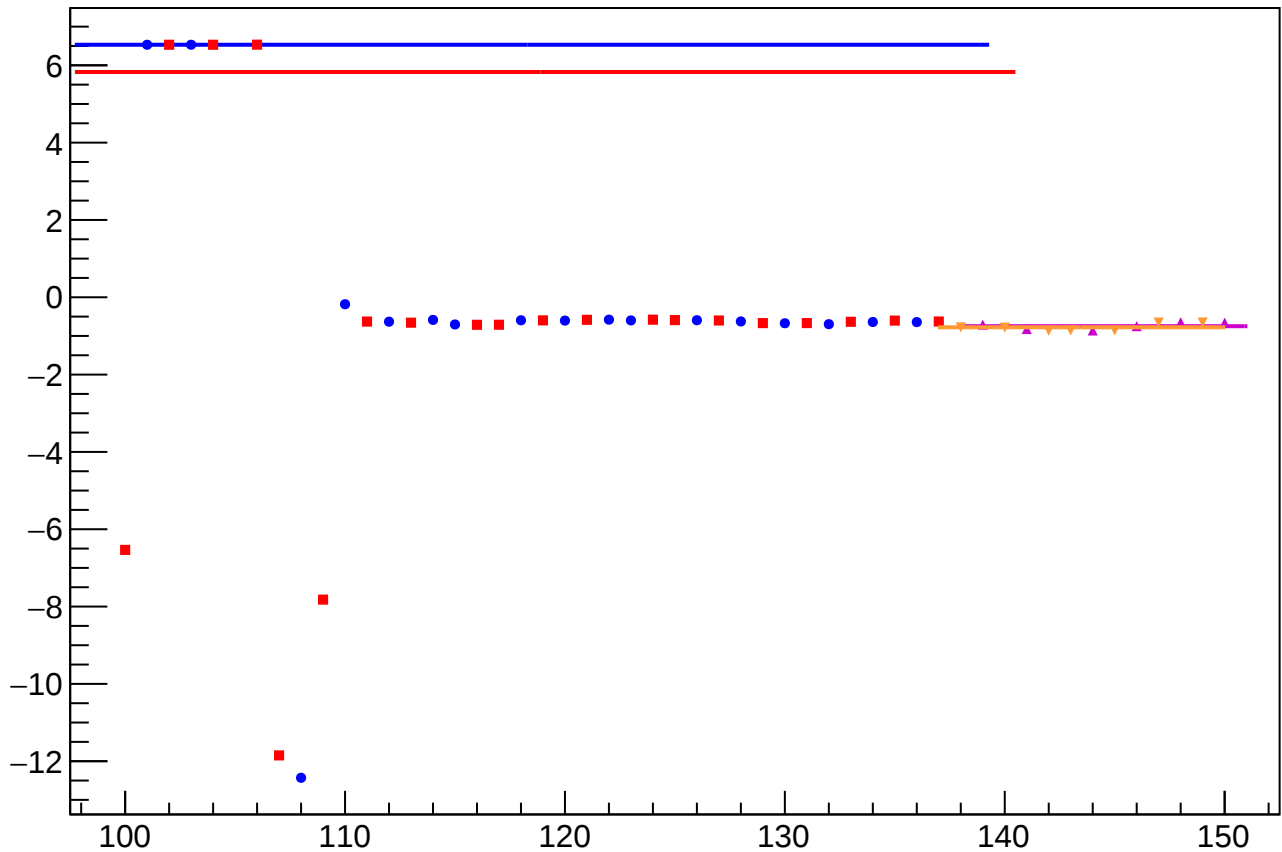
Right Out: 132.288+/-0.037 χ^2/NDF : 869913.4/19

Left In: 173.935+/-0.058 χ^2/NDF : 414718.9/5

144.371+/-0.031 χ^2/NDF : 1407994.0/23

144.424+/-0.031 χ^2/NDF : 1655811.2/25

yield_cav4bX_mean vs Slug



Right In: 6.532 ± 0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.776 ± 0.000 χ^2/NDF : 41157637.9/6

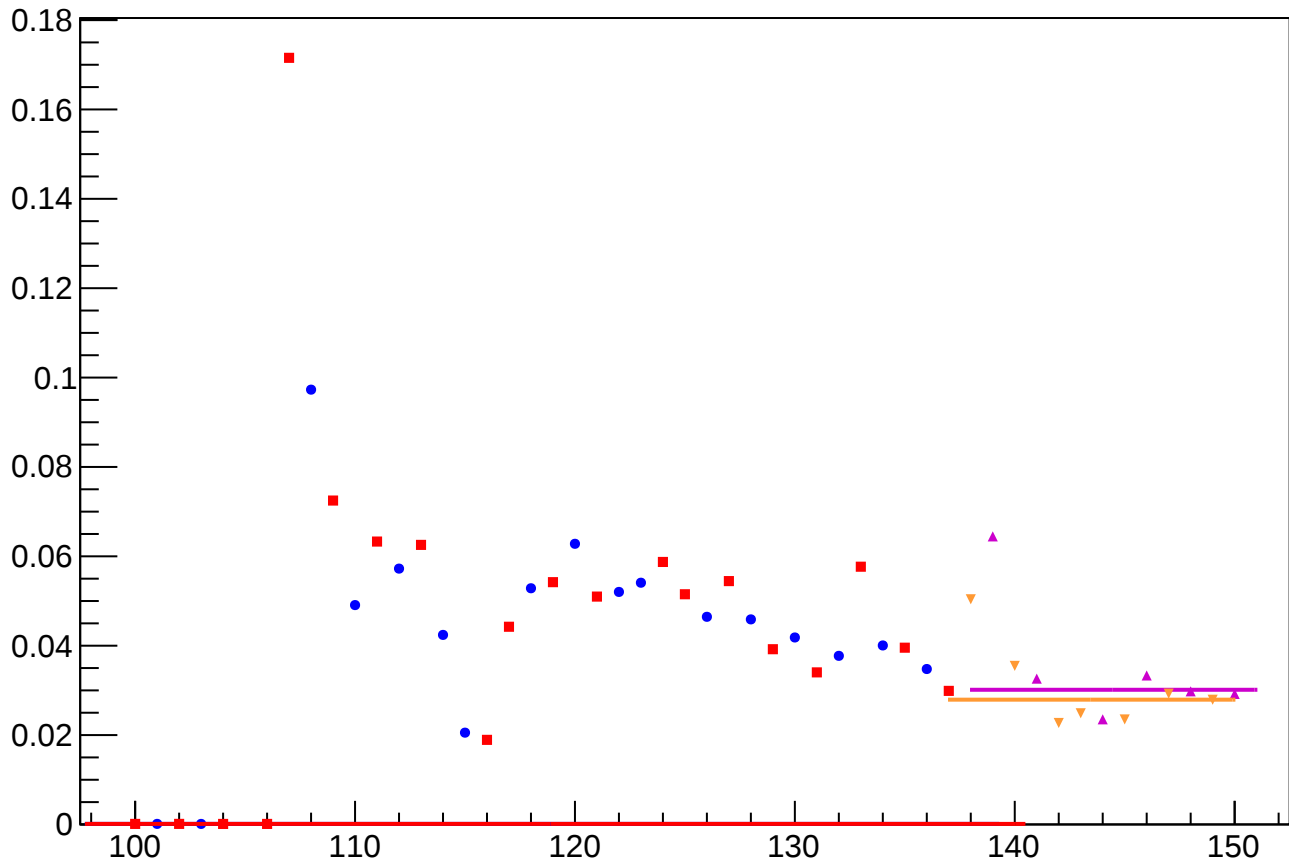
6.531 ± 0.000 χ^2/NDF : 374383986607.9/23

Right Out: 5.827 ± 0.000 χ^2/NDF : 755949520765363.8/19

5.827 ± 0.000 χ^2/NDF : 756123557787690.8/25

Left In: -0.748 ± 0.000 χ^2/NDF : 32094044.0/5

yield_cav4bX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.028+/-0.000 χ^2/NDF : 376527.7/6

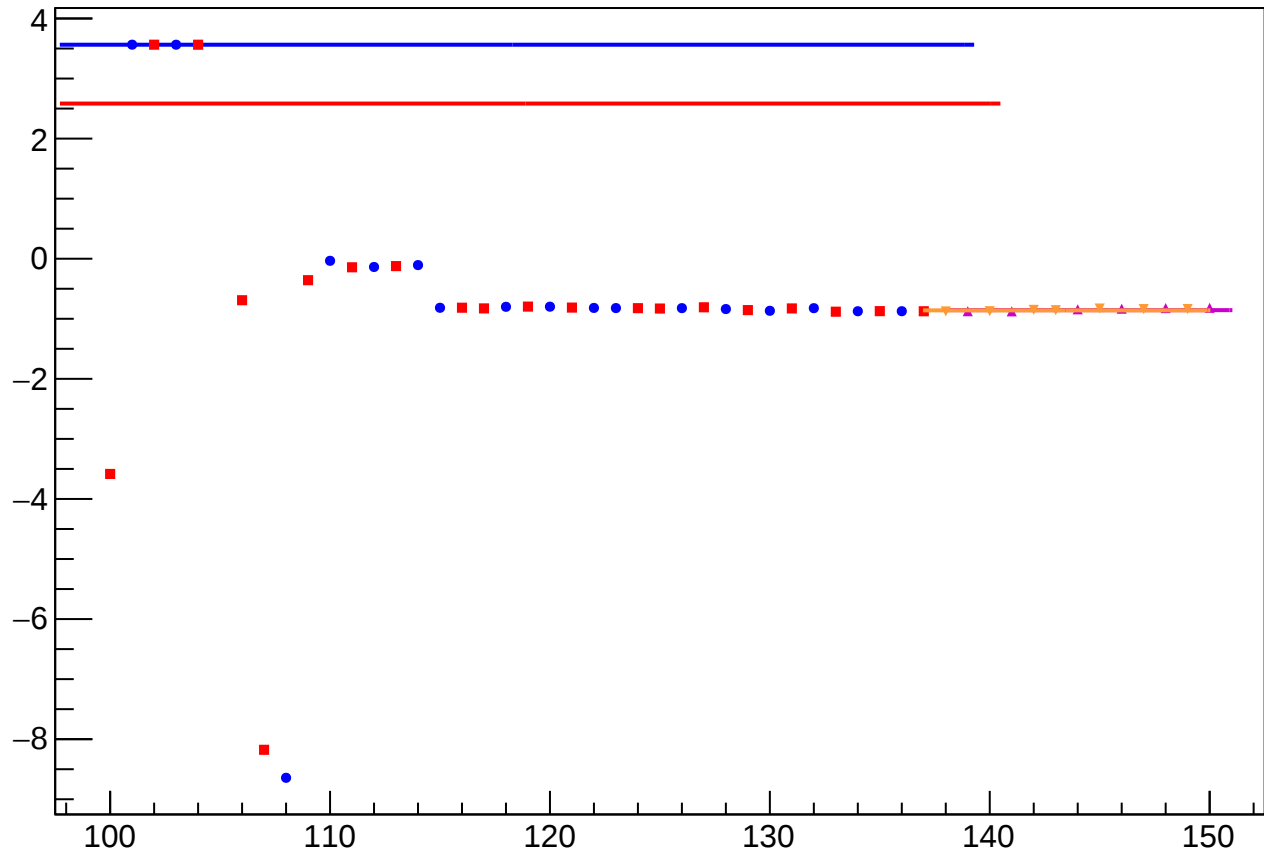
Right Out: 0.000+/-0.000 χ^2/NDF : 9453181.1/19

Left In: 0.030+/-0.000 χ^2/NDF : 491246.2/5

0.000+/-0.000 χ^2/NDF : 16537484.8/23

0.000+/-0.000 χ^2/NDF : 17194406.6/25

yield_cav4bY_mean vs Slug



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.860+/-0.000 χ^2/NDF : 15061873.5/6

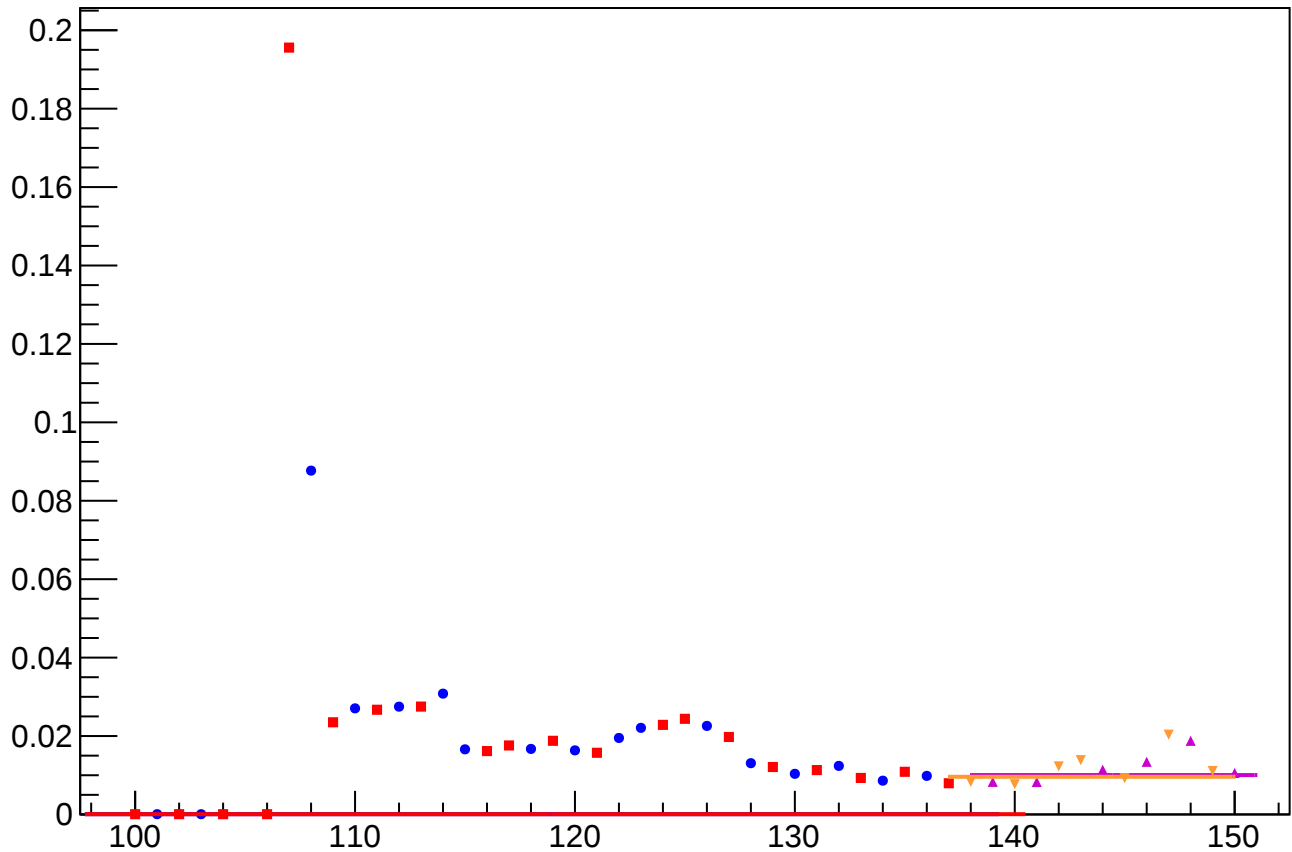
3.563+/-0.000 χ^2/NDF : 1275706643843.0/23

Right Out: 2.583+/-0.000 χ^2/NDF : 1253506756008351.0/19

2.583+/-0.000 χ^2/NDF : 1253938411311261.5/2

Left In: -0.856+/-0.000 χ^2/NDF : 20894973.8/5

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 : 637407.5/6

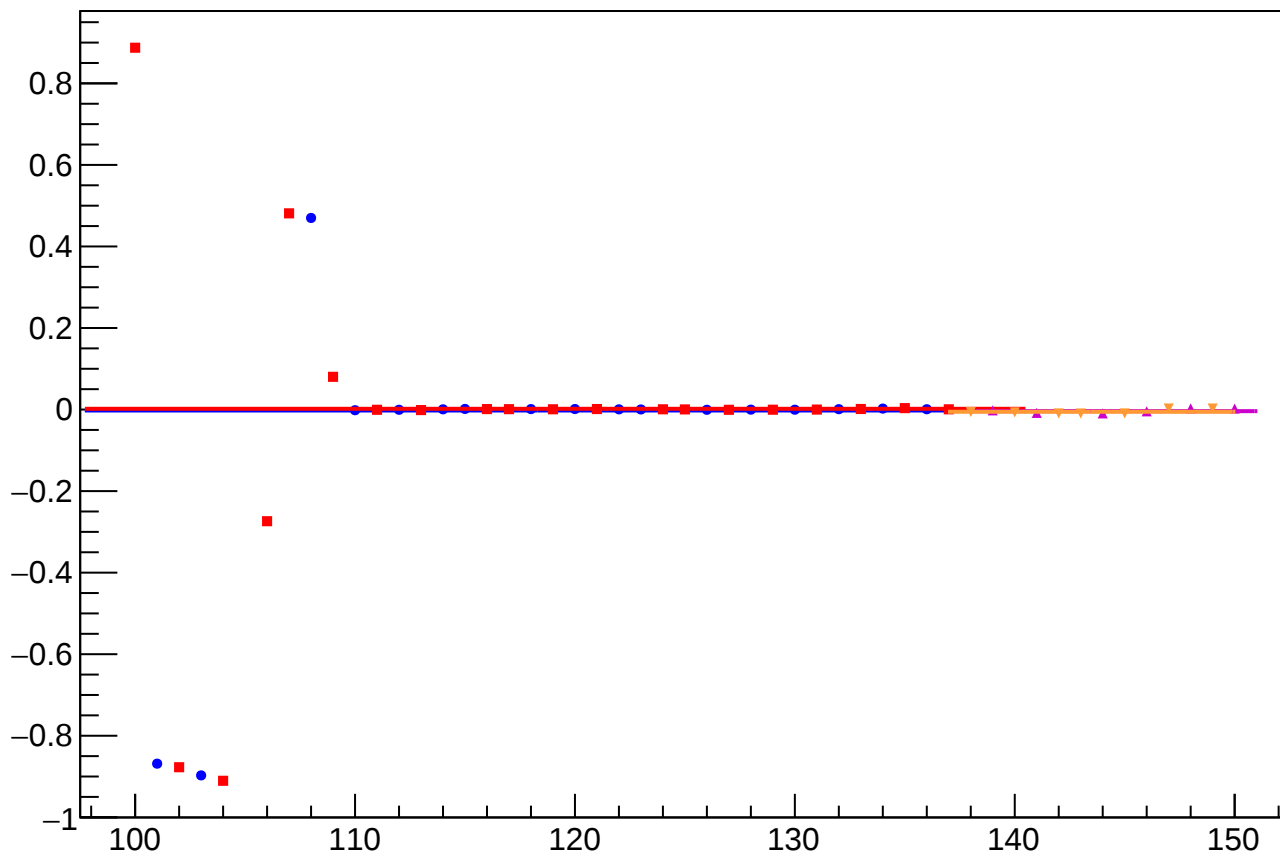
Right Out: 0.000+/-0.000 χ^2/NDF : 9955781.5/19

Left In: 0.010+/-0.000 χ^2/NDF : 519328.7/5

0.000+/-0.000 χ^2/NDF : 17822081.3/23

0.000+/-0.000 χ^2/NDF : 17738743.3/25

yield_cav4cX_mean vs Slug



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.005+/-0.000 χ^2/NDF : 47458202.3/6

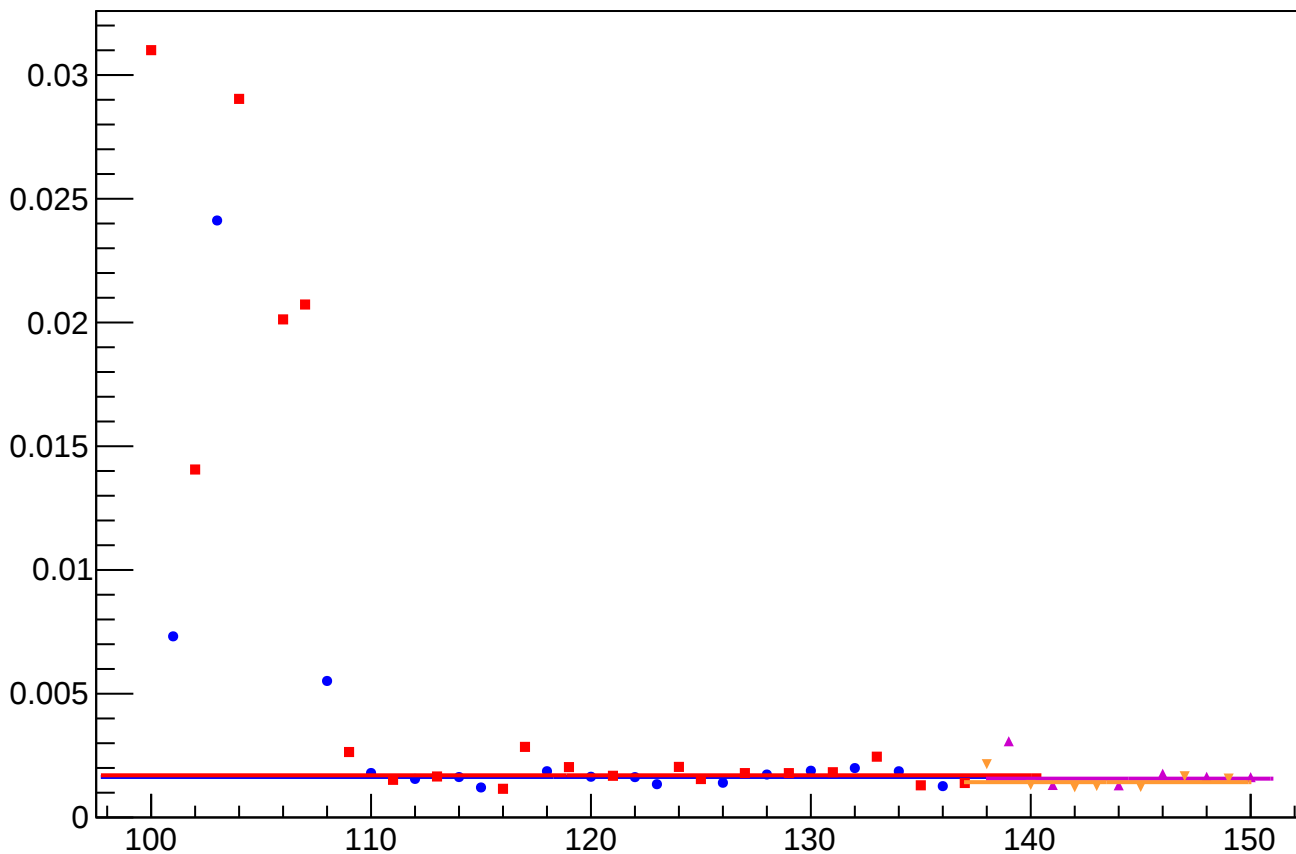
Right Out: 0.002+/-0.000 χ^2/NDF : 3041335141.0/19

Left In: -0.004+/-0.000 χ^2/NDF : 40075133.8/5

-0.004+/-0.000 χ^2/NDF : 9851250868.6/23

-0.001+/-0.000 χ^2/NDF : 3106901765.9/25

yield_cav4cX_rms vs Slug



Right In: 0.002 ± 0.000 χ^2/NDF : 1919127.9/16

Left Out: 0.001 ± 0.000 χ^2/NDF : 239297.3/6

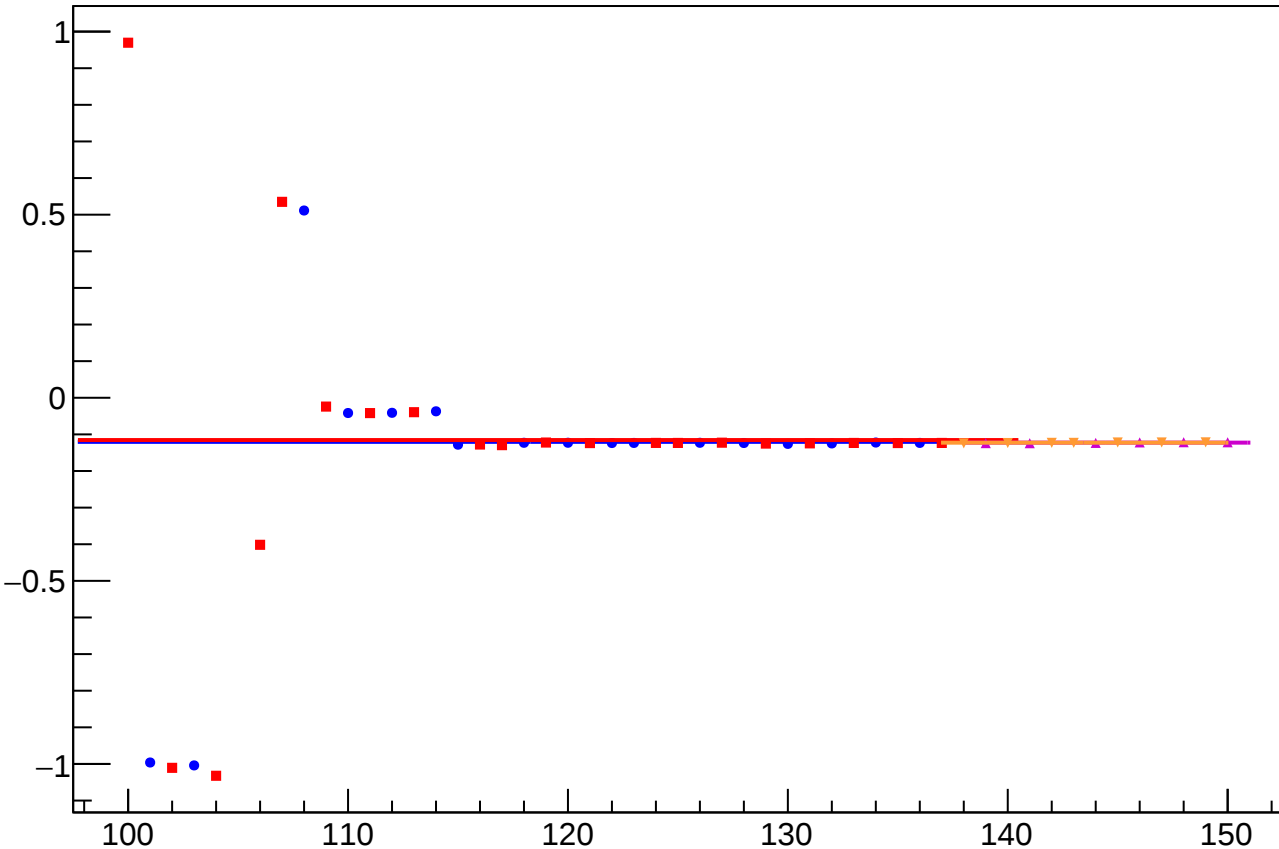
Right Out: 0.002 ± 0.000 χ^2/NDF : 3038397.4/19

Left In: 0.002 ± 0.000 χ^2/NDF : 444251.9/5

0.002 ± 0.000 χ^2/NDF : 2234983.4/23

0.002 ± 0.000 χ^2/NDF : 3510695.4/25

yield_cav4cY_mean vs Slug



Right In: -0.120+/-0.000 χ^2/NDF : 393231162.8/16

Left Out: -0.123+/-0.000 χ^2/NDF :2750361.0/6

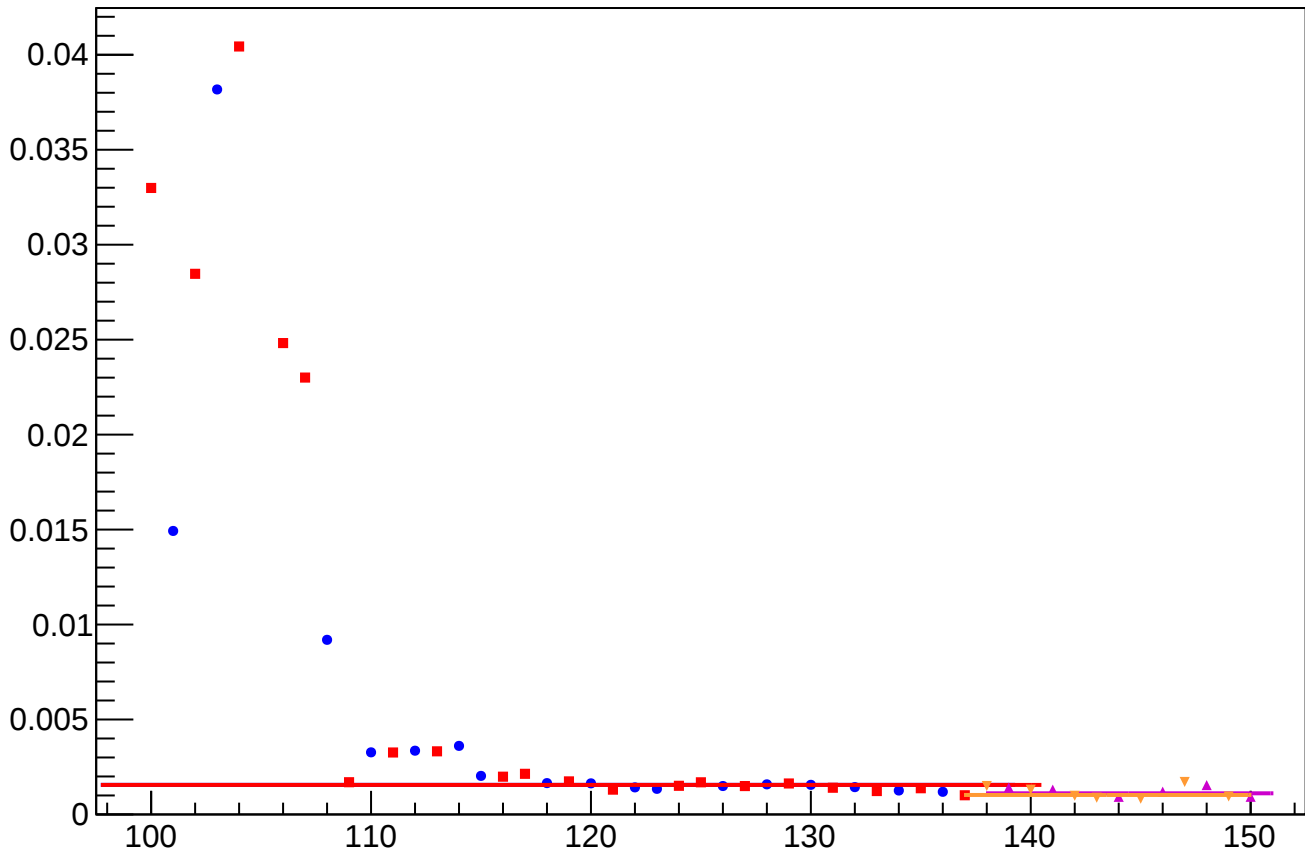
Right Out: -0.115 ± 0.000 χ^2/NDF : 2458720596.9/19

Left In: -0.123+/-0.000 χ^2/NDF :3548632.8/5

-0.122+/-0.000 χ^2/NDF : 3941860031.4/23

-0.120+/-0.000 χ^2/NDF : 2523497307.7/25

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 :558617.8/6

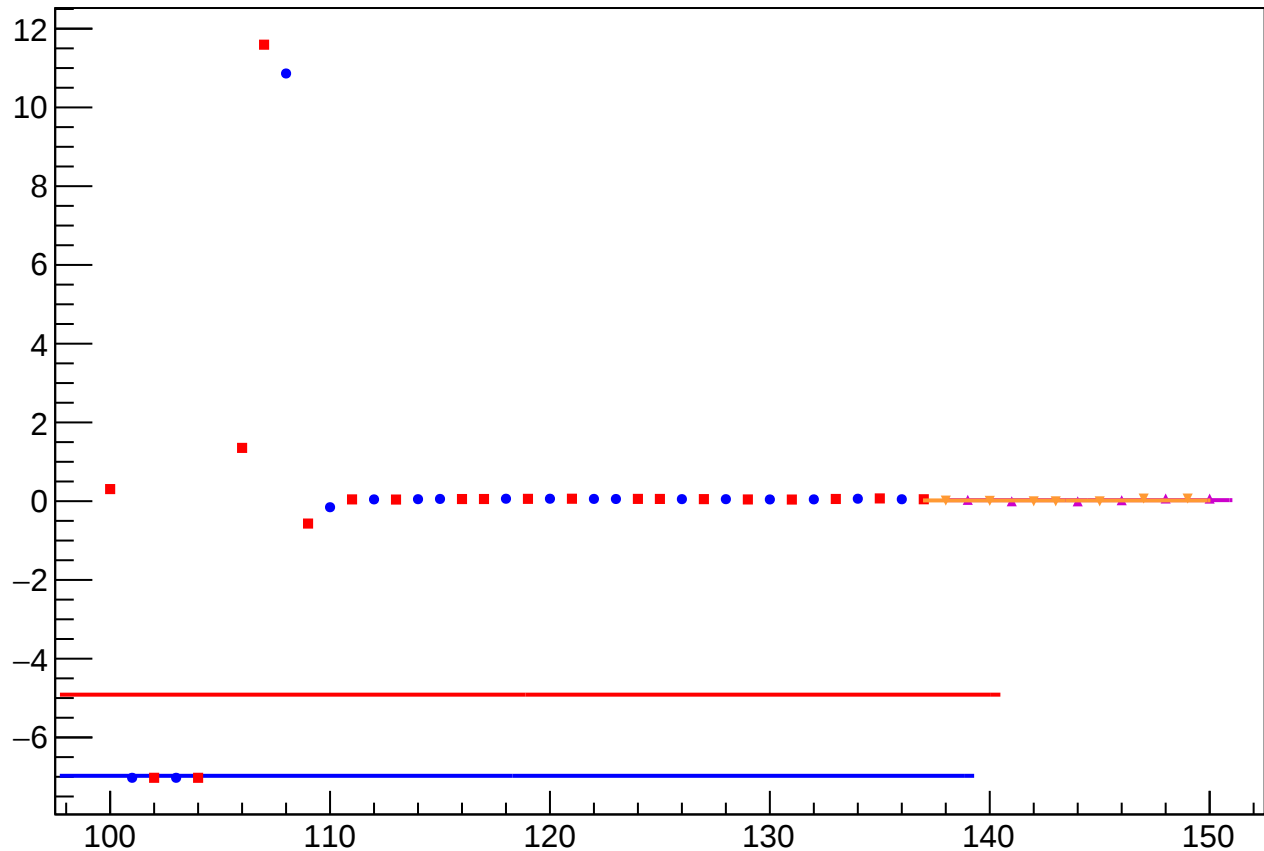
0.001+/-0.000 χ^2/NDF : 4196855.1/23

Right Out: 0.002+/-0.000 χ^2/NDF : 3544377.2/19

0.001+/-0.000 χ^2/NDF : 4369056.1/25

Left In: 0.001+/-0.000 χ^2/NDF :344660.6/5

yield_cav4dX_mean vs Slug



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 47093069.6/6

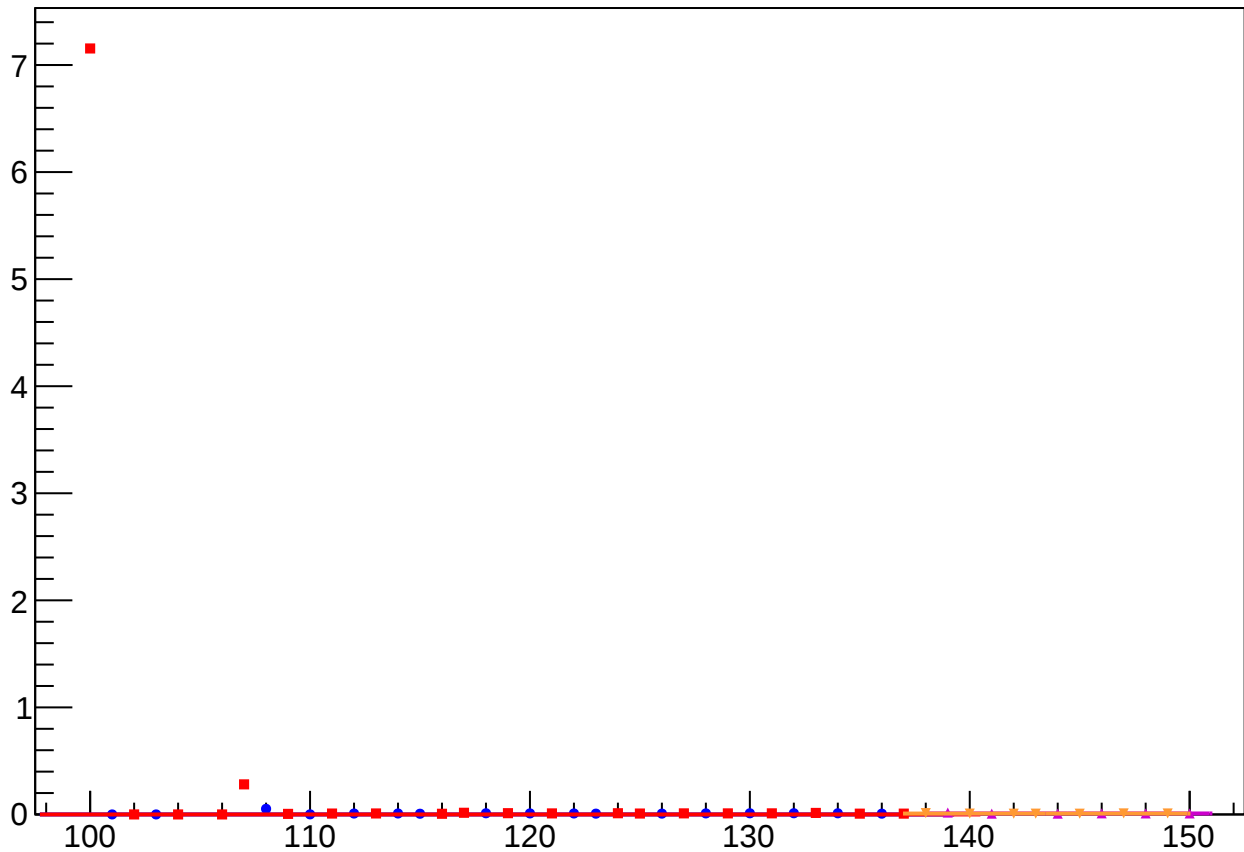
Right Out: -4.914+/-0.000 χ^2/NDF : 365366243956054.8/19

Left In: 0.026+/-0.000 χ^2/NDF : 42934841.4/5

-6.961+/-0.000 χ^2/NDF : 11292280414518.8/23

-4.906+/-0.000 χ^2/NDF : 366438158061168.2/2

yield_cav4dX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.008+/-0.000 χ^2/NDF :242372.9/6

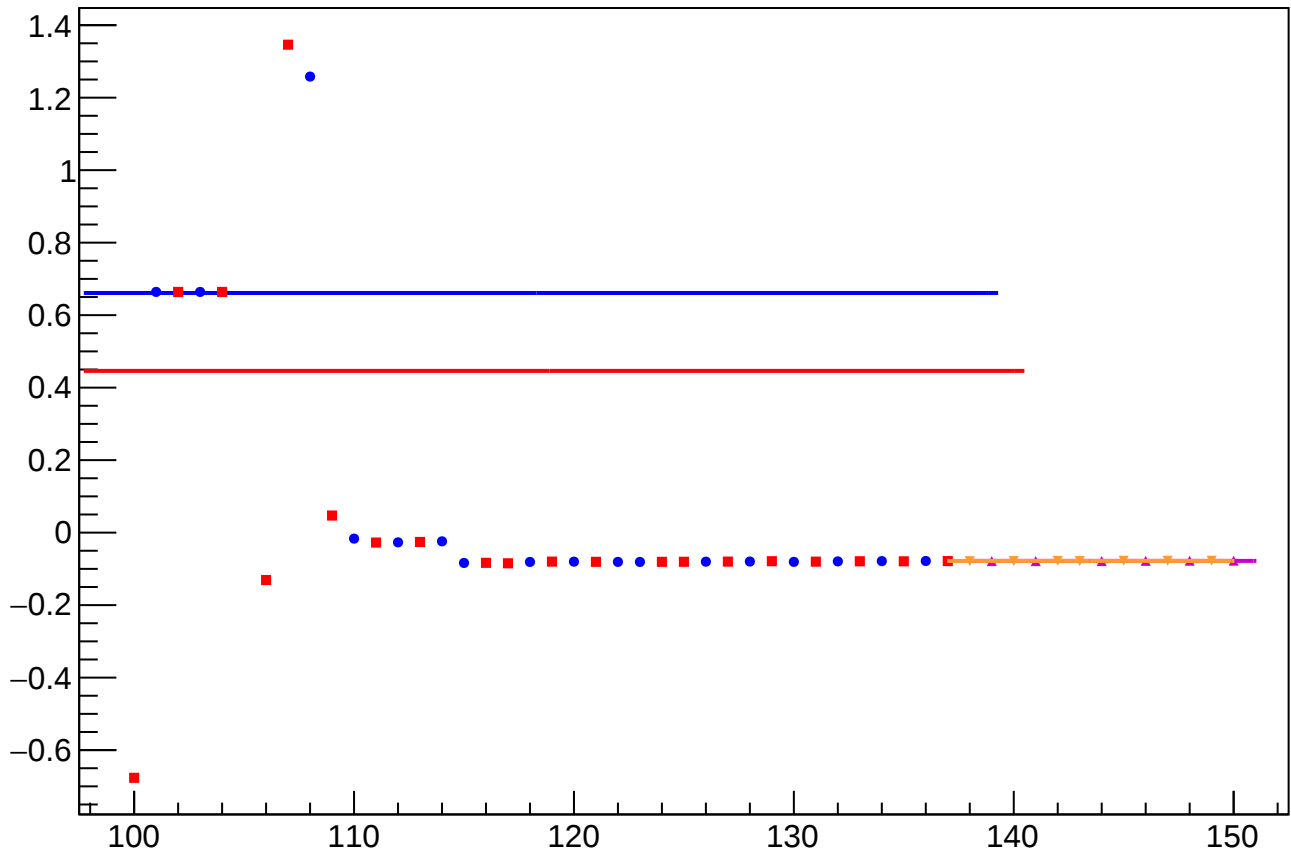
Right Out: 0.000+/-0.000 χ^2/NDF : 8880914.4/19

Left In: 0.009+/-0.000 χ^2/NDF :444726.9/5

0.000+/-0.000 χ^2/NDF : 15549820.4/23

0.000+/-0.000 χ^2/NDF : 16415110.9/25

yield_cav4dY_mean vs Slug



Right In: 0.661 ± 0.000 χ^2/NDF : 5678332616622.1/16

Left Out: -0.078 ± 0.000 χ^2/NDF : 3266571.1/6

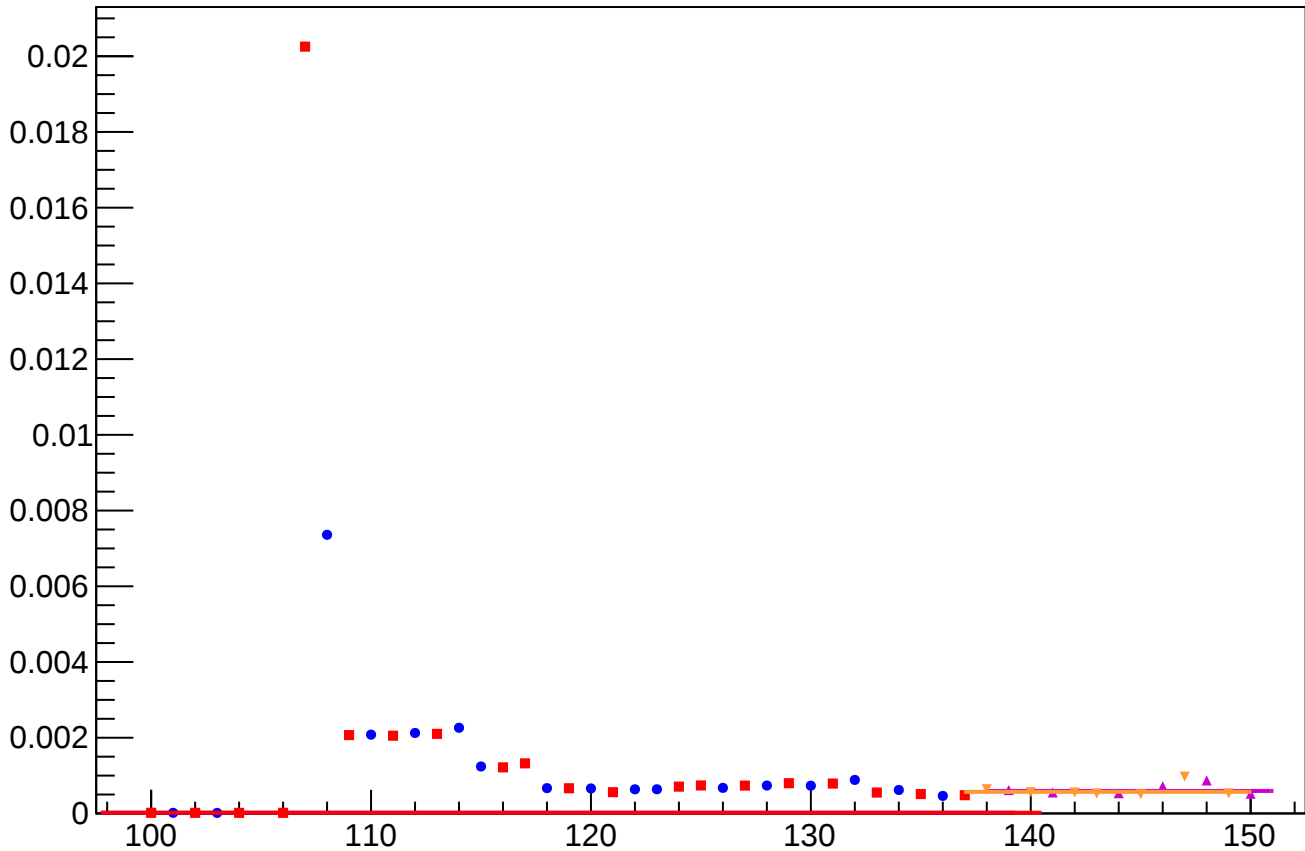
0.657 ± 0.000 χ^2/NDF : 13339862692909.7/23

Right Out: 0.446 ± 0.000 χ^2/NDF : 405434749783850.4/19

0.444 ± 0.000 χ^2/NDF : 408933267340443.3/25

Left In: -0.078 ± 0.000 χ^2/NDF : 3763981.9/5

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 : 314636.8/6

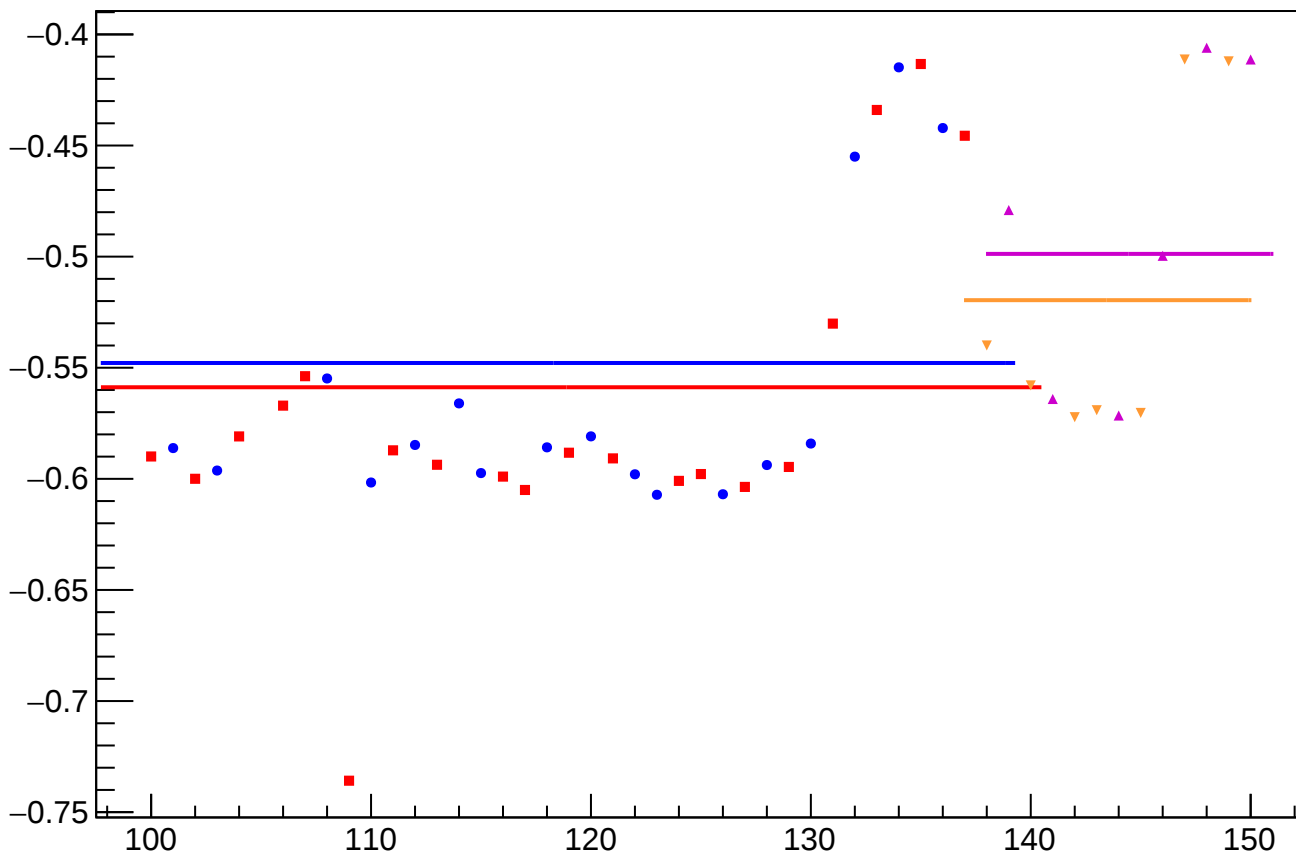
Right Out: 0.000+/-0.000 χ^2/NDF : 9575039.3/19

Left In: 0.001+/-0.000 χ^2/NDF : 262729.4/5

0.000+/-0.000 χ^2/NDF : 18859236.9/23

0.000+/-0.000 χ^2/NDF : 18283675.4/25

yield_bpm4aX_mean vs Slug



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.520+/-0.000 χ^2/NDF : 50820627.5/6

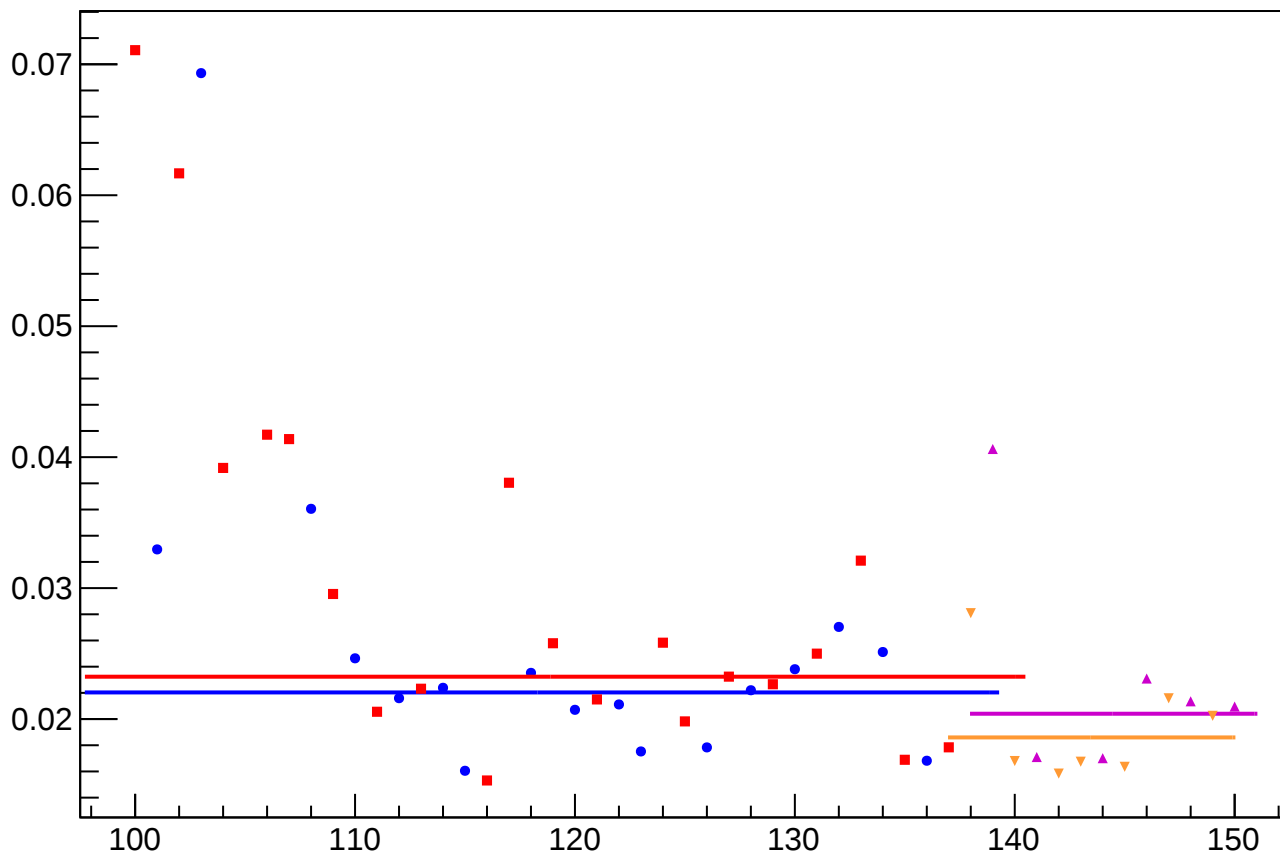
Right Out: -0.559+/-0.000 χ^2/NDF : 65741796.4/19

Left In: -0.499+/-0.000 χ^2/NDF : 45027578.7/5

-0.534+/-0.000 χ^2/NDF : 103583490.1/23

-0.531+/-0.000 χ^2/NDF : 127636058.2/25

yield_bpm4aX_rms vs Slug



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.019+/-0.000 χ^2/NDF : 229469.3/6

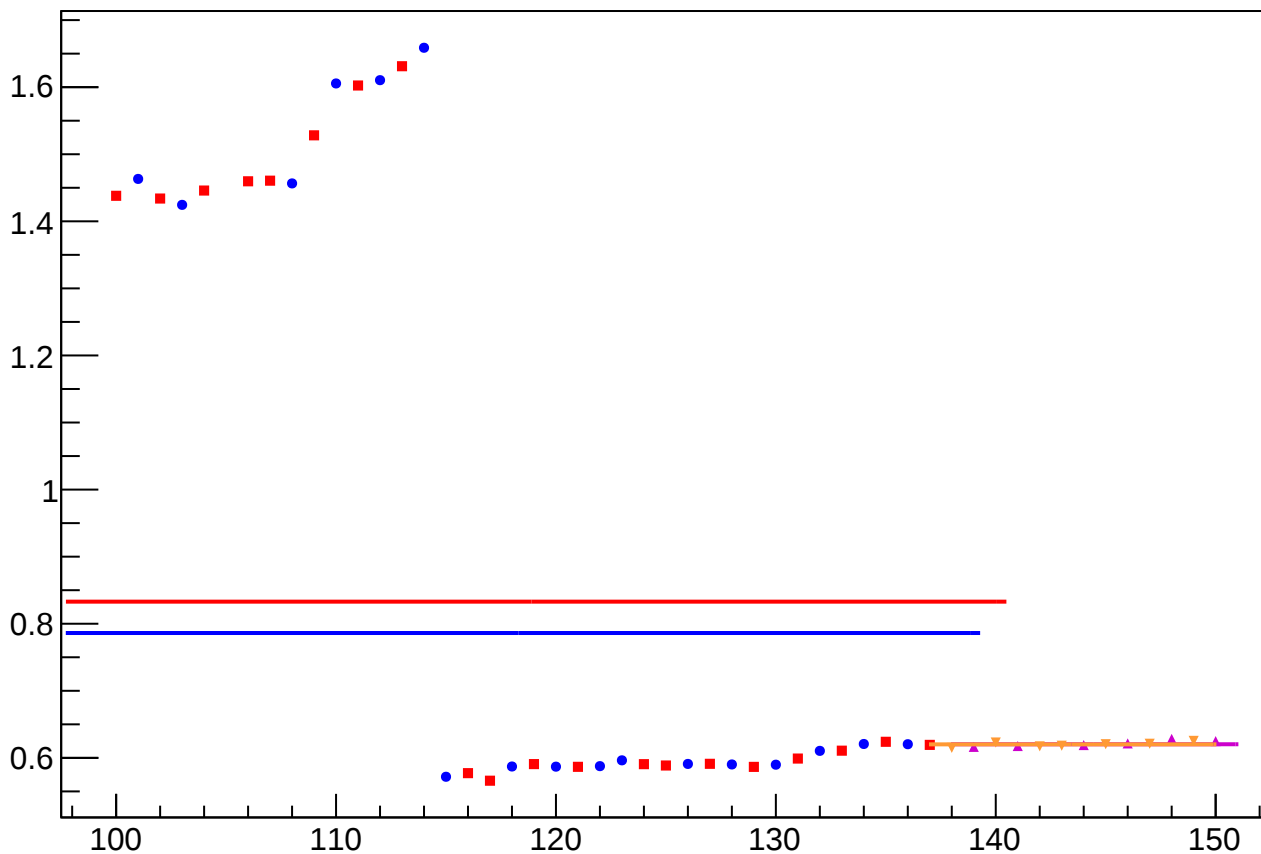
Right Out: 0.023+/-0.000 χ^2/NDF : 1169205.3/19

Left In: 0.020+/-0.000 χ^2/NDF : 448924.2/5

0.020+/-0.000 χ^2/NDF : 1312069.7/23

0.022+/-0.000 χ^2/NDF : 1693011.8/25

yield_bpm4aY_mean vs Slug



Right In: 0.786 $\pm$ 0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.620 $\pm$ 0.000 χ^2/NDF : 356617.5/6

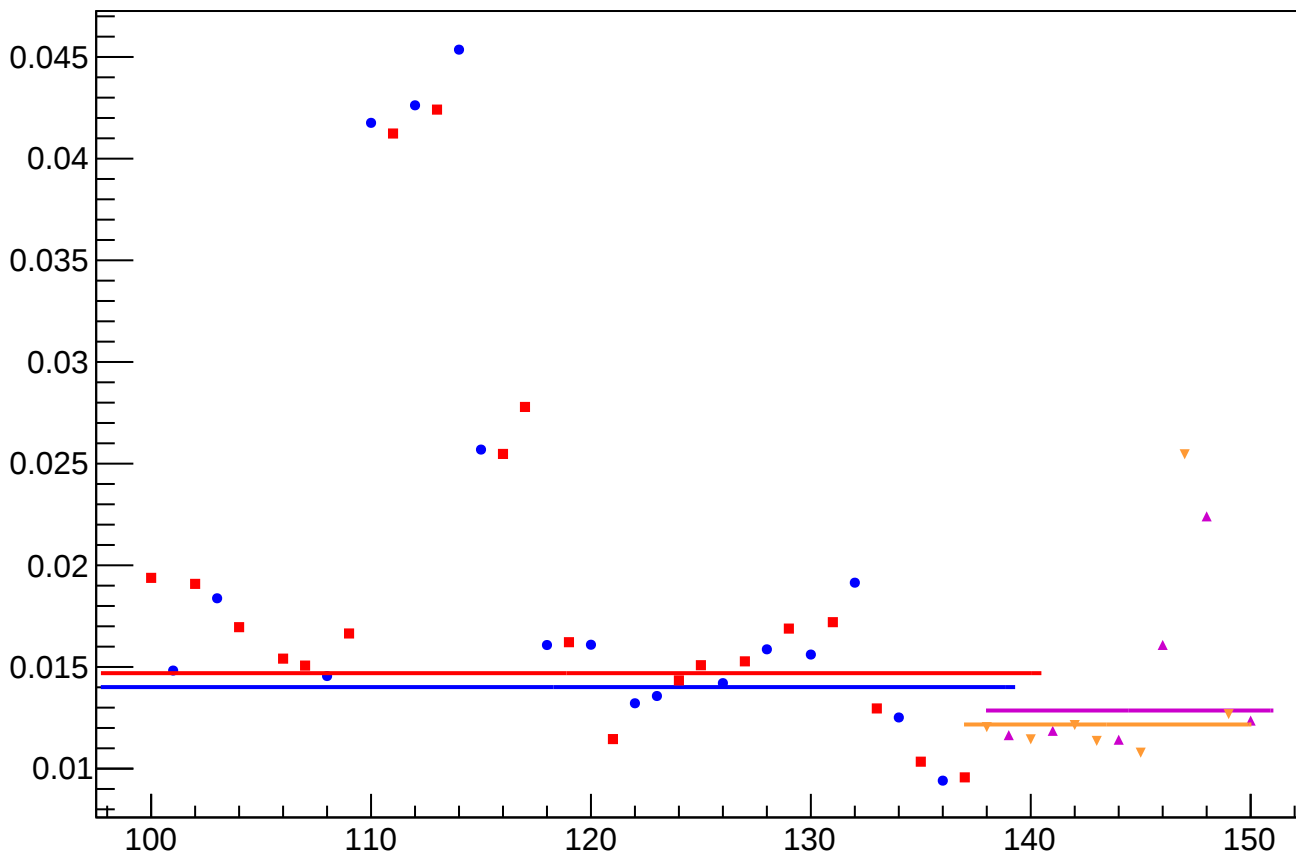
Right Out: 0.833 $\pm$ 0.000 χ^2/NDF : 4160348649.7/19

Left In: 0.620 $\pm$ 0.000 χ^2/NDF : 348423.5/5

0.701 $\pm$ 0.000 χ^2/NDF : 4001856094.0/23

0.729 $\pm$ 0.000 χ^2/NDF : 4781620011.0/25

yield_bpm4aY_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1404865.3/16

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 444520.3/6

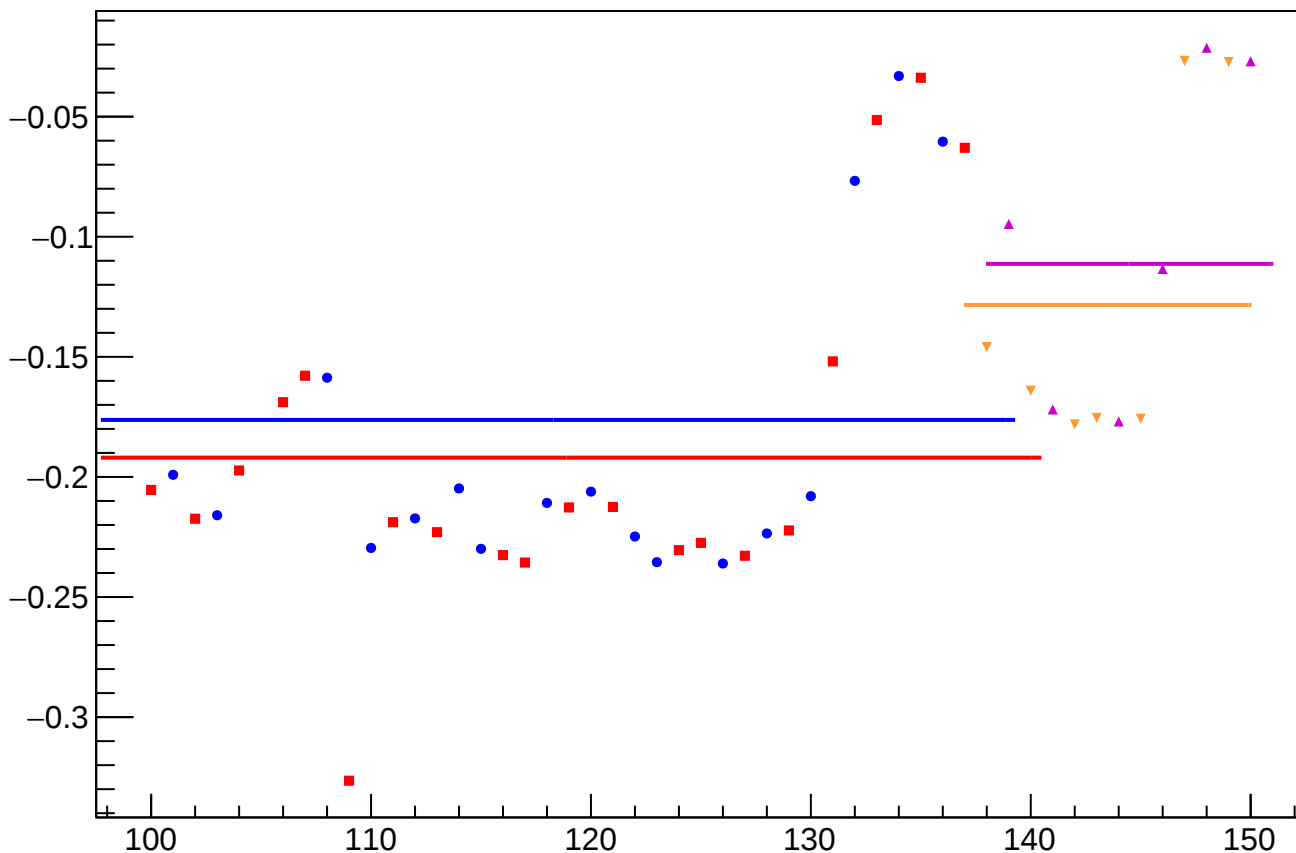
0.013 $\pm$ 0.000 χ^2 /NDF: 1950340.8/23

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1280473.4/19

0.014 $\pm$ 0.000 χ^2 /NDF: 1762277.1/25

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF: 389137.4/5

yield_bpm4eX_mean vs Slug



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.128+/-0.000 χ^2/NDF : 49372563.7/6

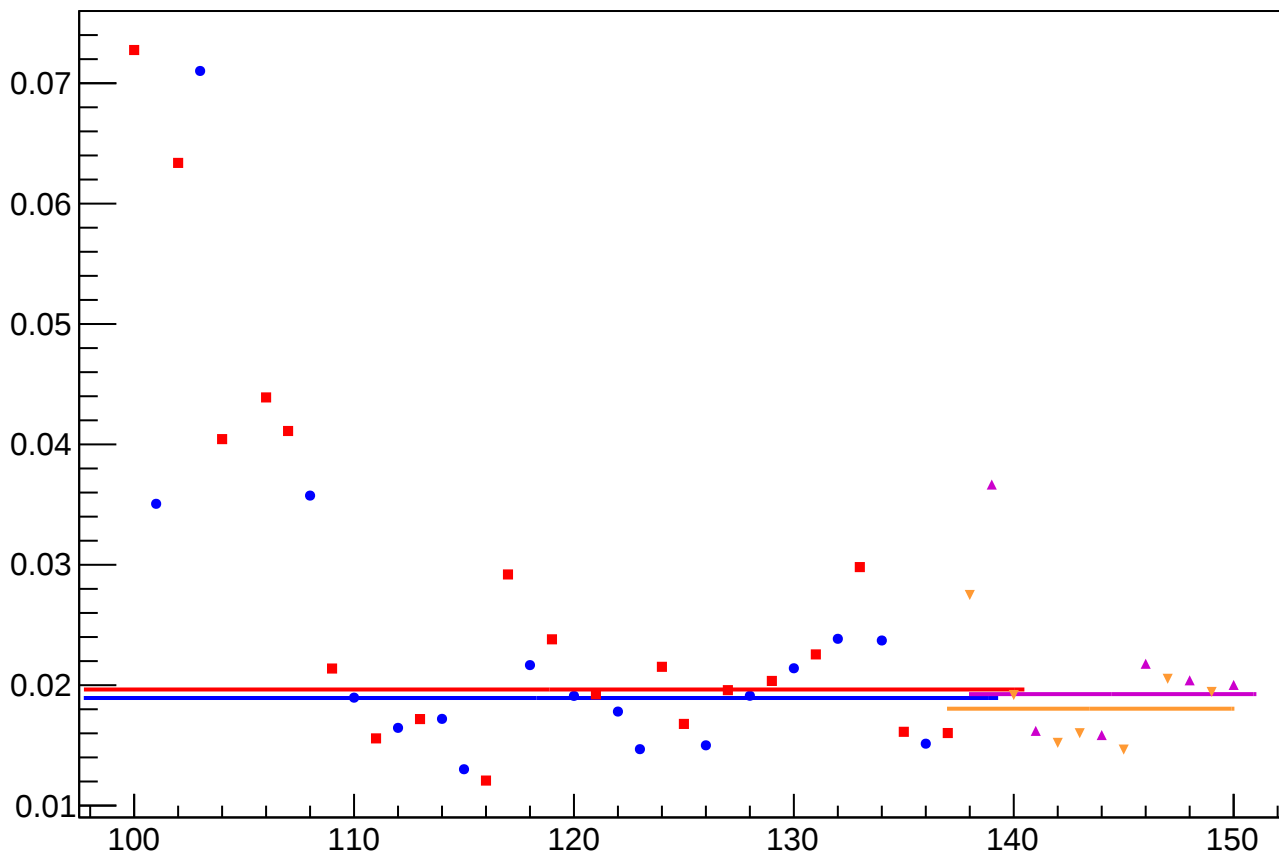
Right Out: -0.192+/-0.000 χ^2/NDF : 83899255.4/19

Left In: -0.111+/-0.000 χ^2/NDF : 44918245.8/5

-0.155+/-0.000 χ^2/NDF : 133848874.1/23

-0.158+/-0.000 χ^2/NDF : 166335800.4/25

yield_bpm4eX_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.018+/-0.000 χ^2/NDF : 268693.3/6

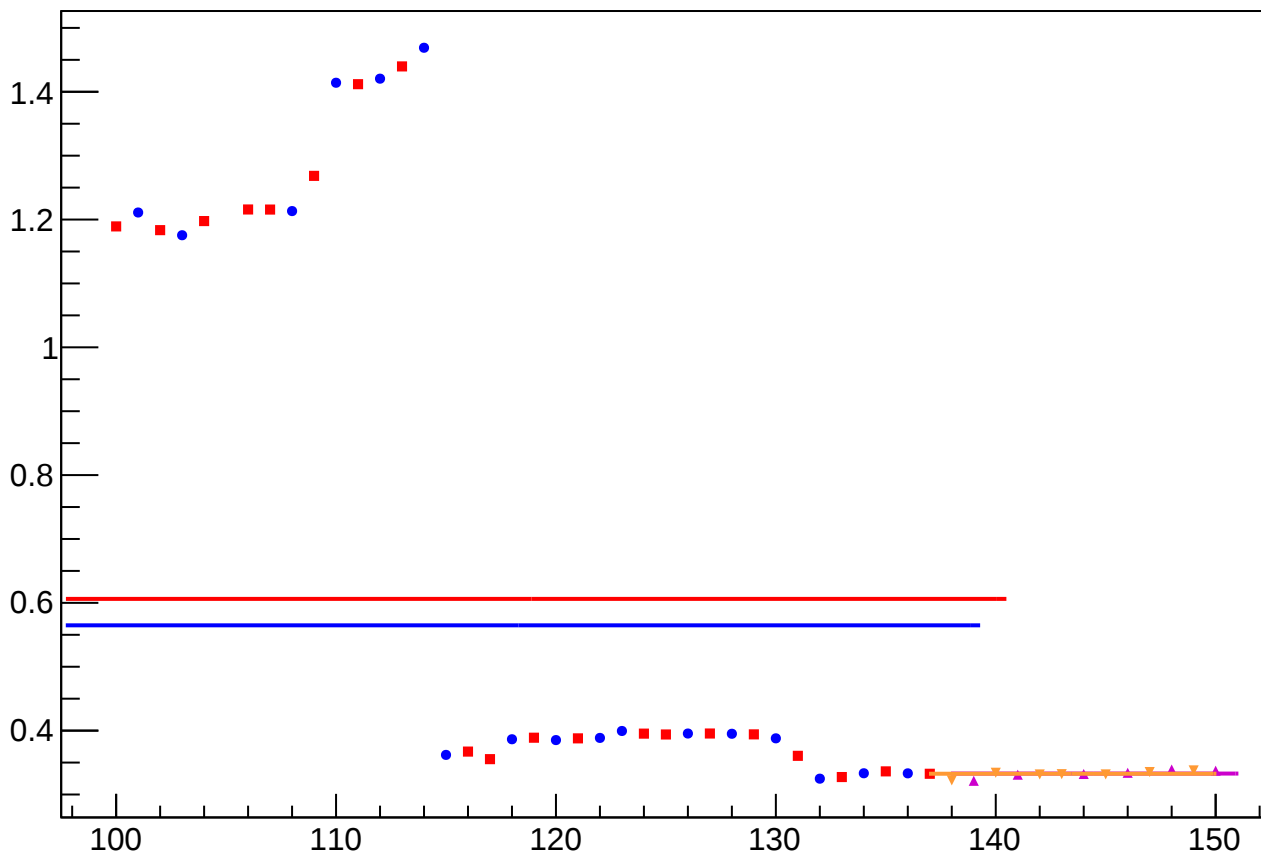
Right Out: 0.020+/-0.000 χ^2/NDF : 1466285.9/19

Left In: 0.019+/-0.000 χ^2/NDF : 427862.5/5

0.019+/-0.000 χ^2/NDF : 1484427.2/23

0.019+/-0.000 χ^2/NDF : 1895850.2/25

yield_bpm4eY_mean vs Slug



Right In: 0.565+/-0.000 χ^2/NDF : 5030969499.3/16

Left Out: 0.333+/-0.000 χ^2/NDF : 678133.1/6

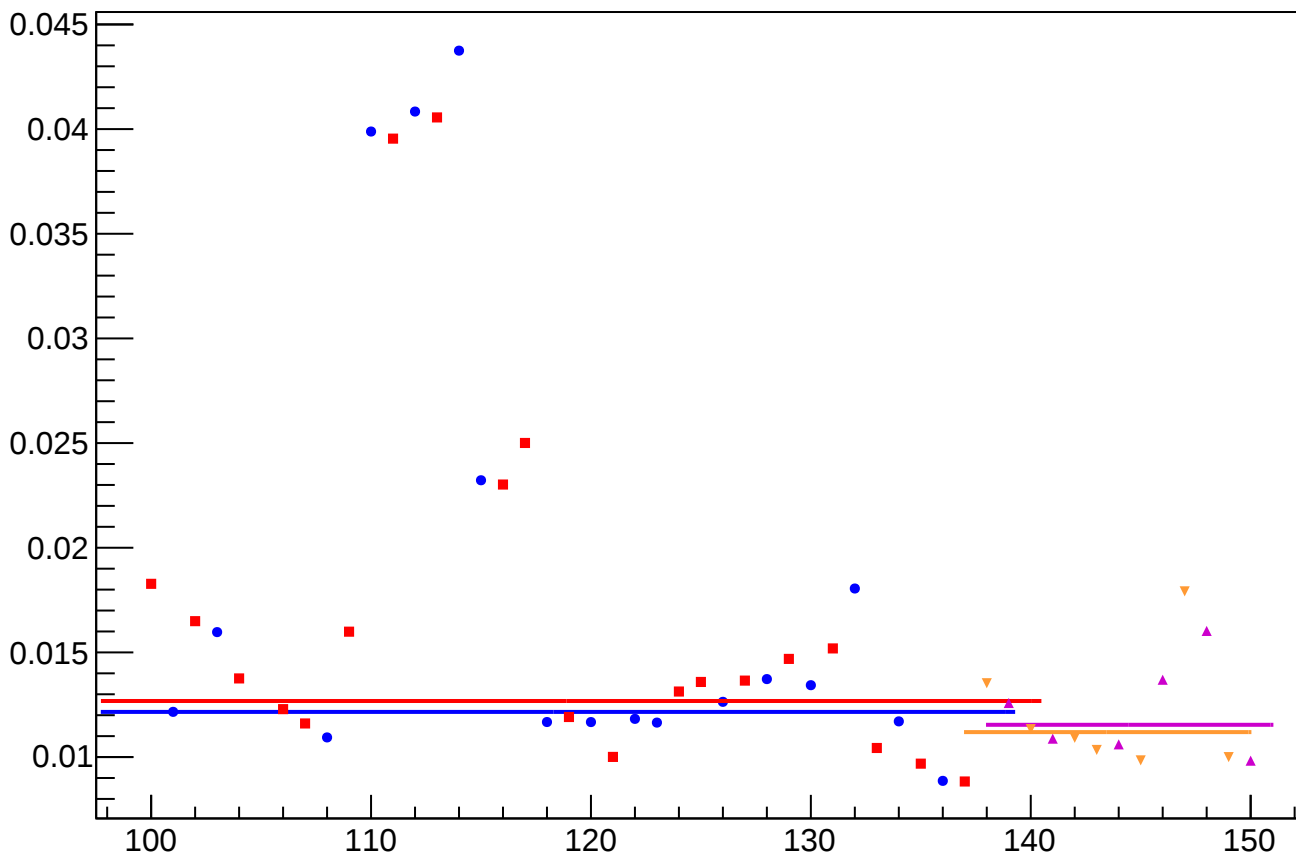
Right Out: 0.606+/-0.000 χ^2/NDF : 5517630064.2/19

Left In: 0.333+/-0.000 χ^2/NDF : 861656.3/5

0.451+/-0.000 χ^2/NDF : 6043984982.5/23

0.475+/-0.000 χ^2/NDF : 6840325659.1/25

yield_bpm4eY_rms vs Slug



Right In: 0.012+/-0.000 χ^2/NDF : 1309888.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :312625.1/6

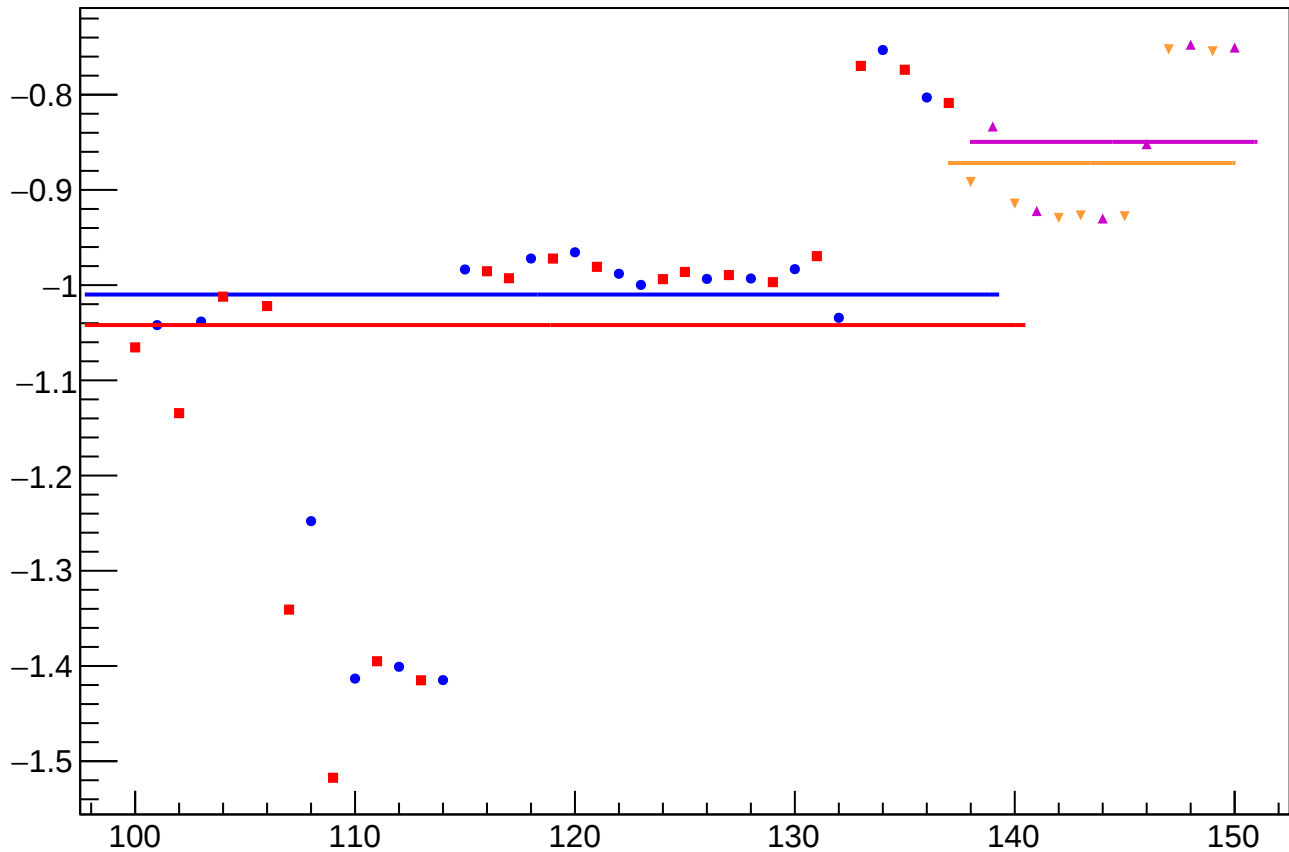
Right Out: 0.013+/-0.000 χ^2/NDF : 1289415.7/19

Left In: 0.012+/-0.000 χ^2/NDF :236809.9/5

0.012+/-0.000 χ^2/NDF : 1657457.2/23

0.012+/-0.000 χ^2/NDF : 1571961.1/25

yield_bpm4acX_mean vs Slug



Right In: -1.010 ± 0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.872 ± 0.000 χ^2/NDF : 64383089.3/6

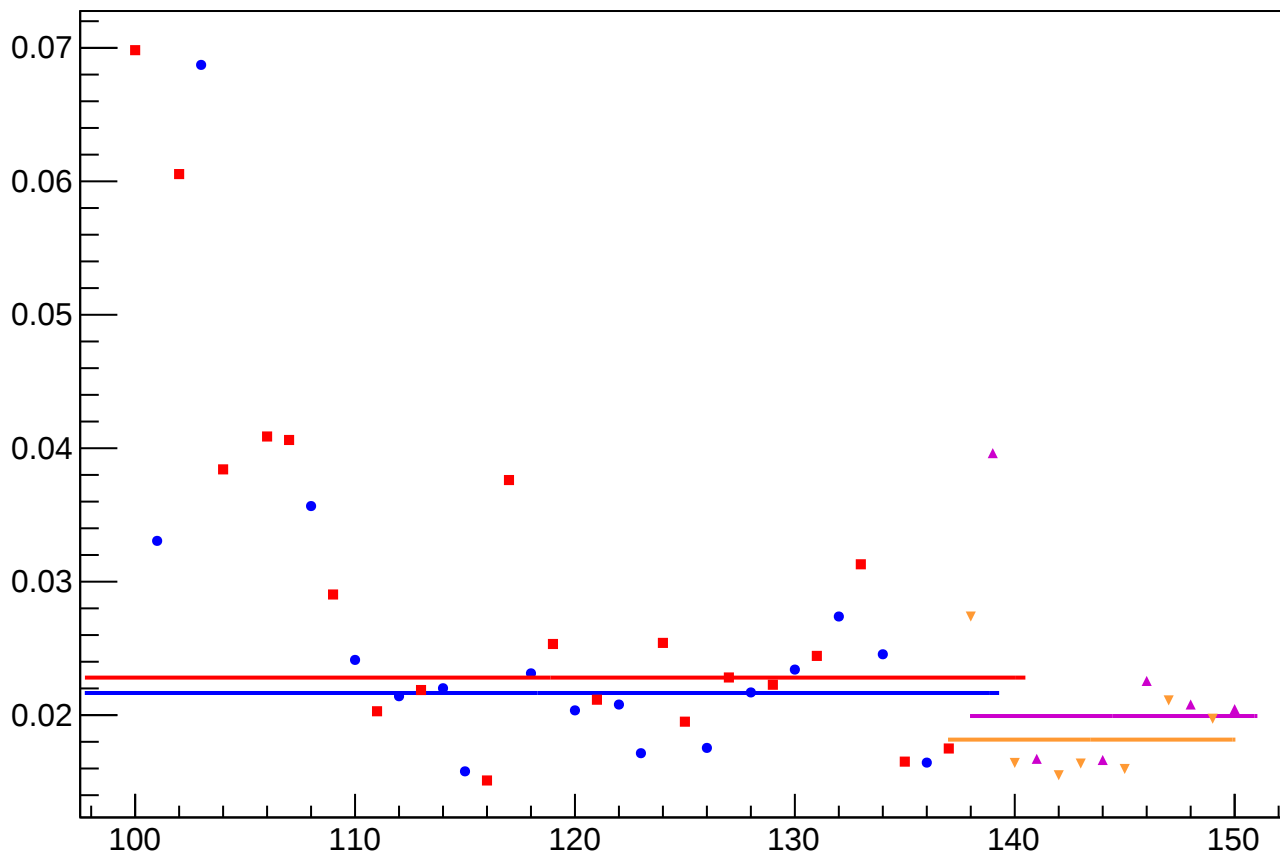
Right Out: -1.042 ± 0.000 χ^2/NDF : 530175104.2/19

Left In: -0.850 ± 0.000 χ^2/NDF : 58471835.9/5

-0.941 ± 0.000 χ^2/NDF : 556035438.0/23

-0.951 ± 0.000 χ^2/NDF : 769257714.2/25

yield_bpm4acX_rms vs Slug



Right In: 0.022 ± 0.000 χ^2/NDF : 983499.8/16

Left Out: 0.018 ± 0.000 χ^2/NDF : 227902.5/6

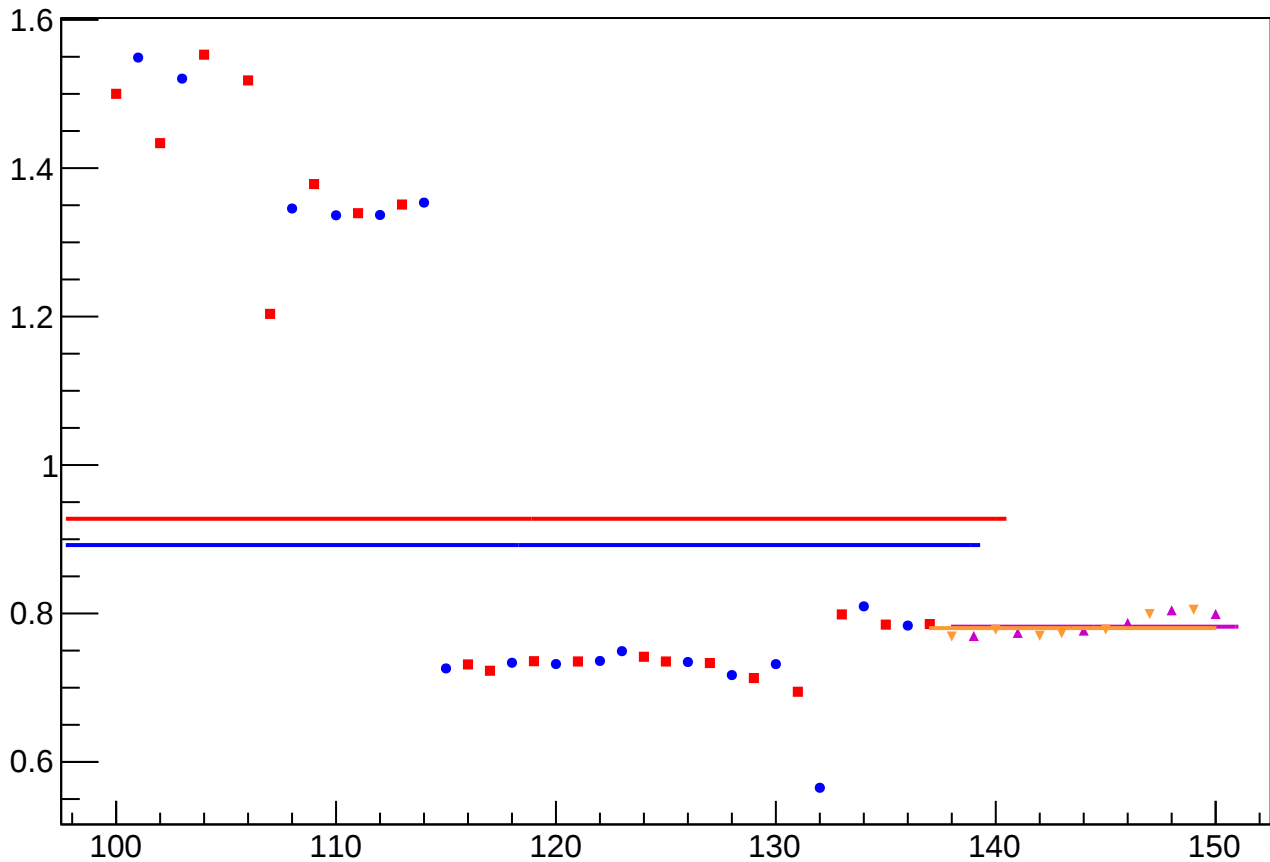
Right Out: 0.023 ± 0.000 χ^2/NDF : 1165116.5/19

Left In: 0.020 ± 0.000 χ^2/NDF : 446422.1/5

0.020 ± 0.000 χ^2/NDF : 1344500.1/23

0.021 ± 0.000 χ^2/NDF : 1692427.6/25

yield_bpm4acY_mean vs Slug



Right In: 0.892+/-0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.780+/-0.000 χ^2/NDF : 4623947.6/6

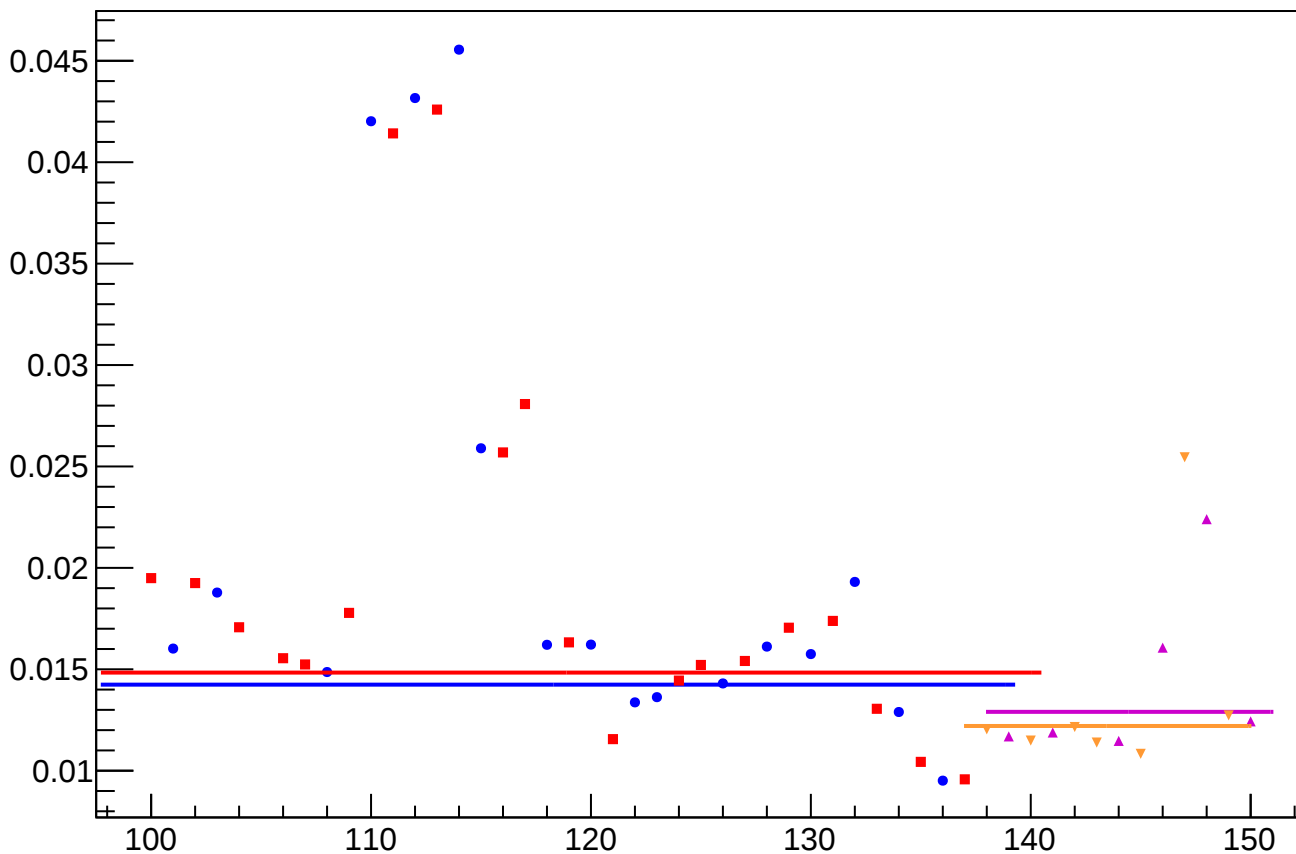
0.834+/-0.000 χ^2/NDF : 2600991387.2/23

Right Out: 0.928+/-0.000 χ^2/NDF : 2439574936.7/19

0.856+/-0.000 χ^2/NDF : 2729460454.5/25

Left In: 0.782+/-0.000 χ^2/NDF : 3766834.5/5

yield_bpm4acY_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 441253.8/6

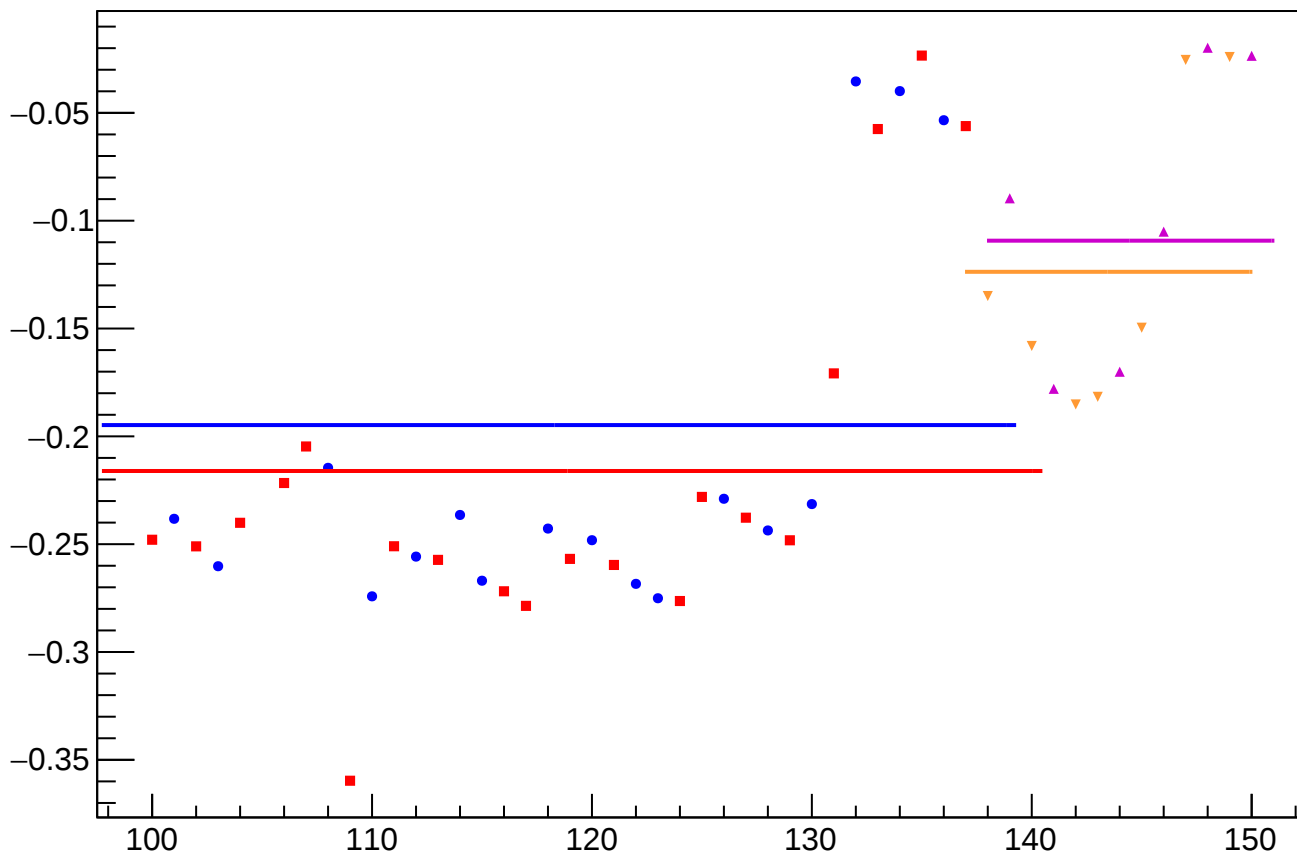
Right Out: 0.015+/-0.000 χ^2/NDF : 1291174.0/19

Left In: 0.013+/-0.000 χ^2/NDF : 384074.0/5

0.013+/-0.000 χ^2/NDF : 1978143.7/23

0.014+/-0.000 χ^2/NDF : 1776659.1/25

yield_bpm4ecX_mean vs Slug



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.124+/-0.000 χ^2/NDF : 46806846.2/6

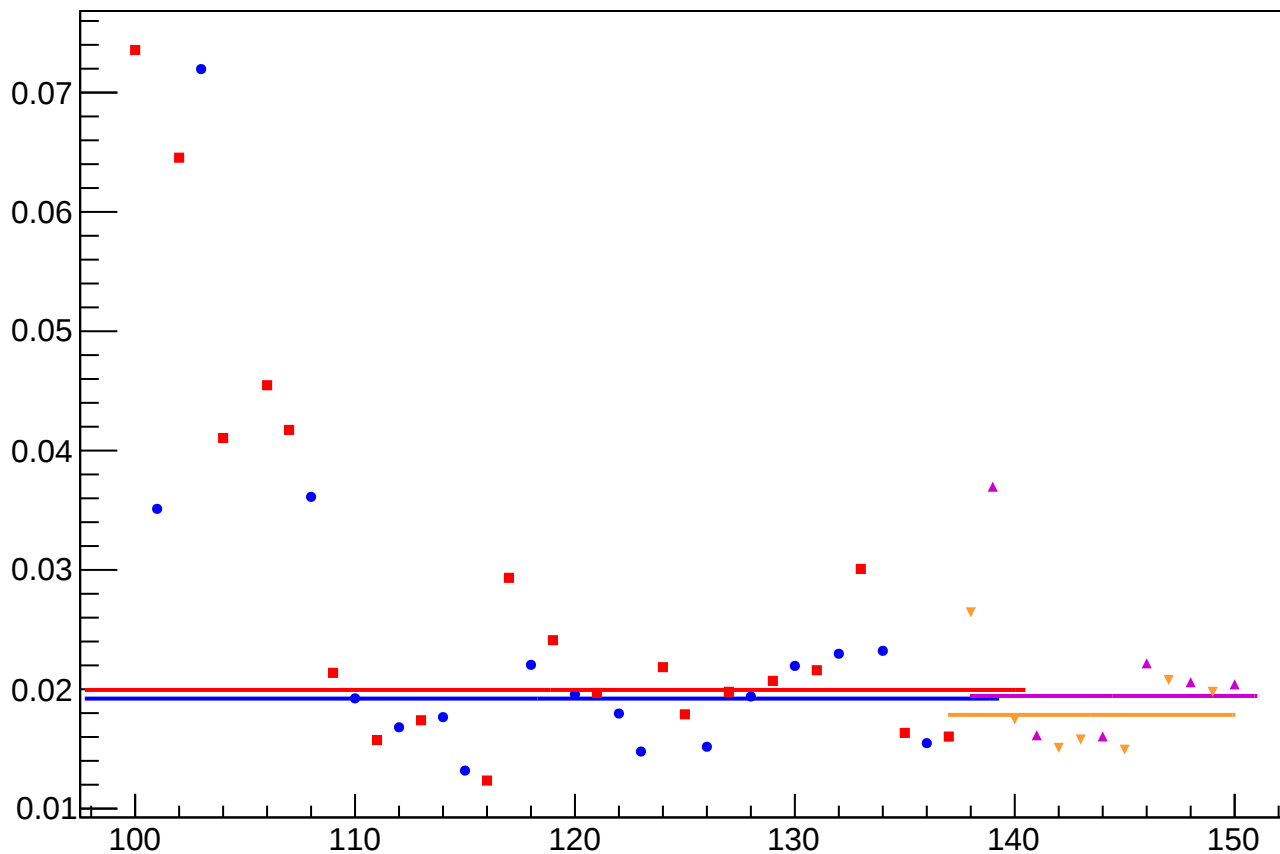
Right Out: -0.216+/-0.000 χ^2/NDF : 112167032.2/19

Left In: -0.109+/-0.000 χ^2/NDF : 45244385.4/5

-0.162+/-0.000 χ^2/NDF : 186849763.8/23

-0.170+/-0.000 χ^2/NDF : 221547460.6/25

yield_bpm4ecX_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.018+/-0.000 χ^2/NDF : 243215.7/6

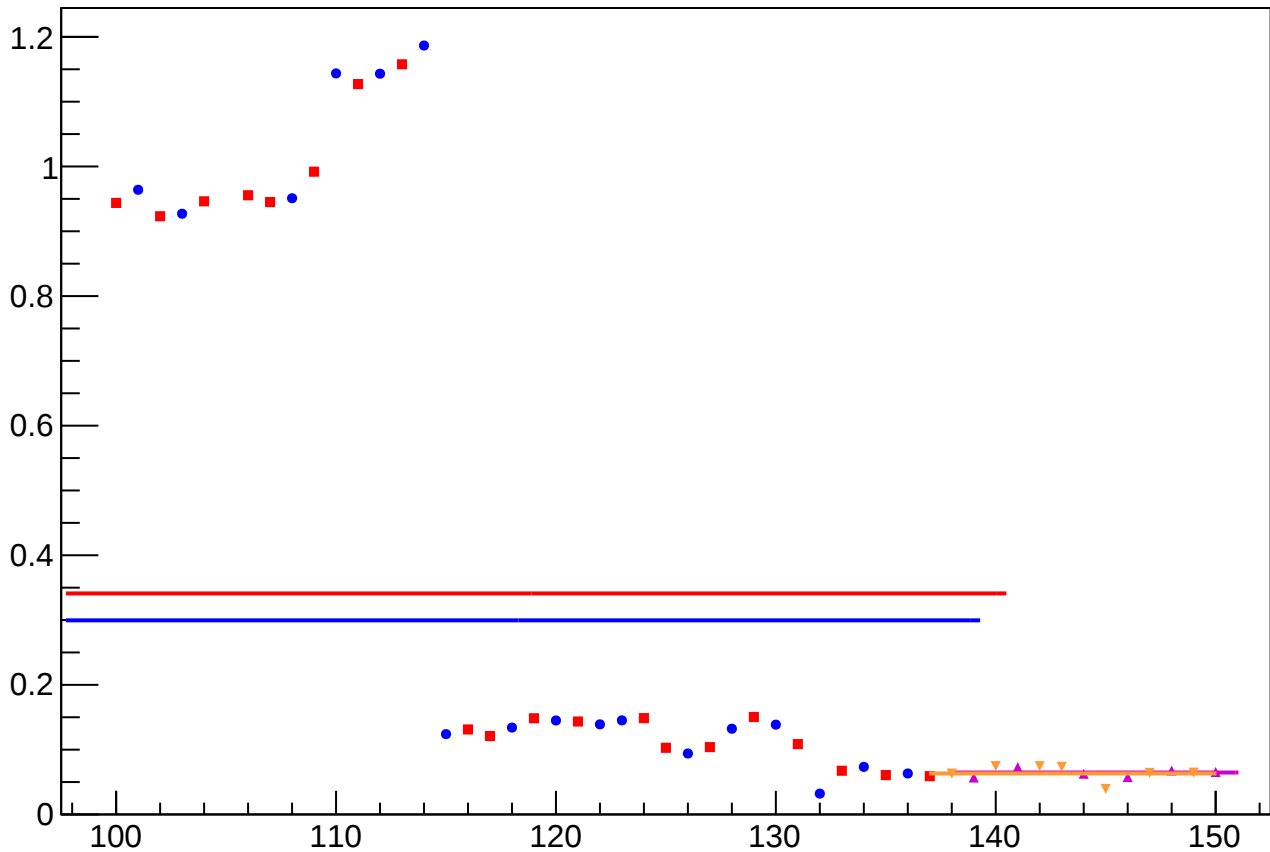
Right Out: 0.020+/-0.000 χ^2/NDF : 1455211.7/19

Left In: 0.019+/-0.000 χ^2/NDF : 435851.7/5

0.019+/-0.000 χ^2/NDF : 1443430.5/23

0.020+/-0.000 χ^2/NDF : 1893929.0/25

yield_bpm4ecY_mean vs Slug



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.063+/-0.000 χ^2/NDF : 6313994.3/6

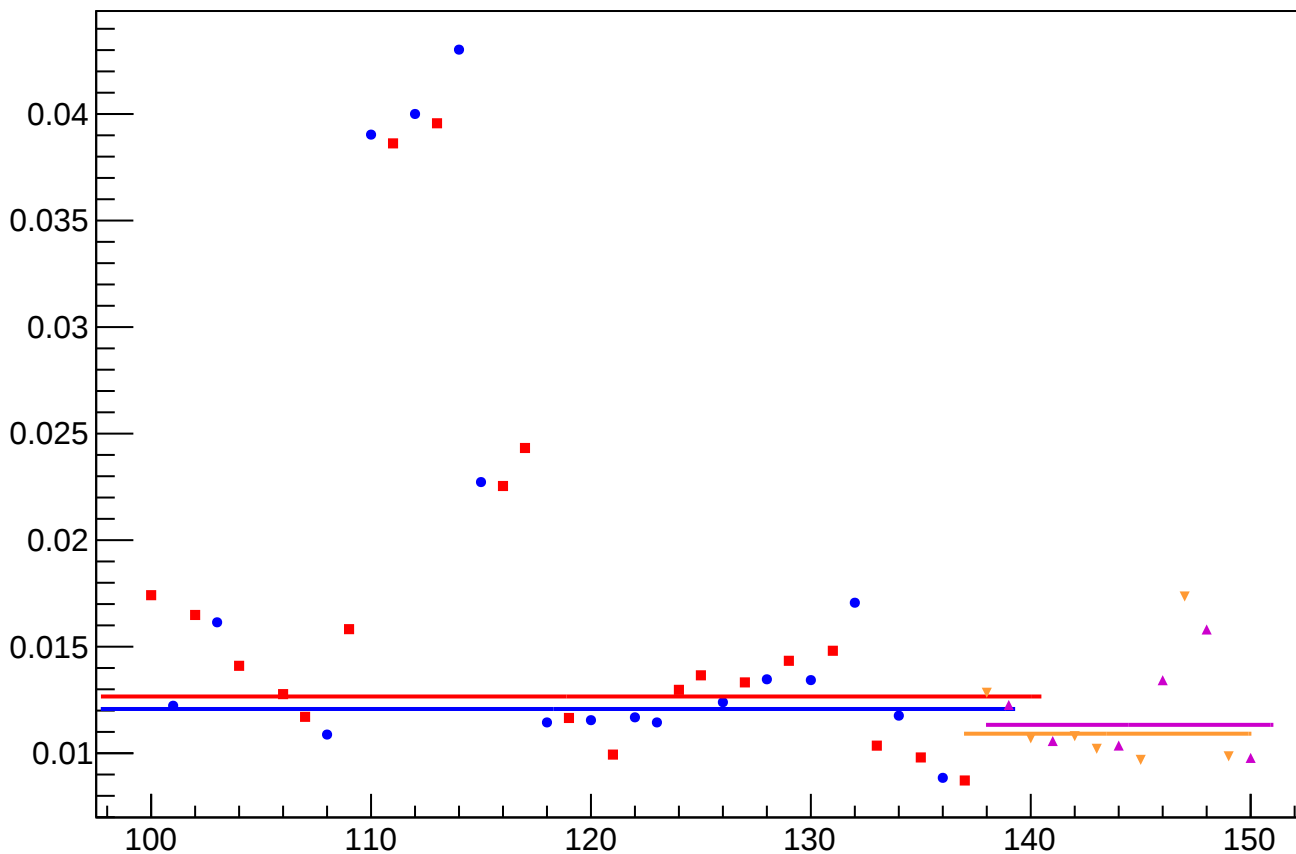
0.182+/-0.000 χ^2/NDF : 6253508052.6/23

Right Out: 0.341+/-0.000 χ^2/NDF : 5453748737.7/19

0.206+/-0.000 χ^2/NDF : 6833793930.8/25

Left In: 0.065+/-0.000 χ^2/NDF : 1006545.3/5

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:286568.8/6

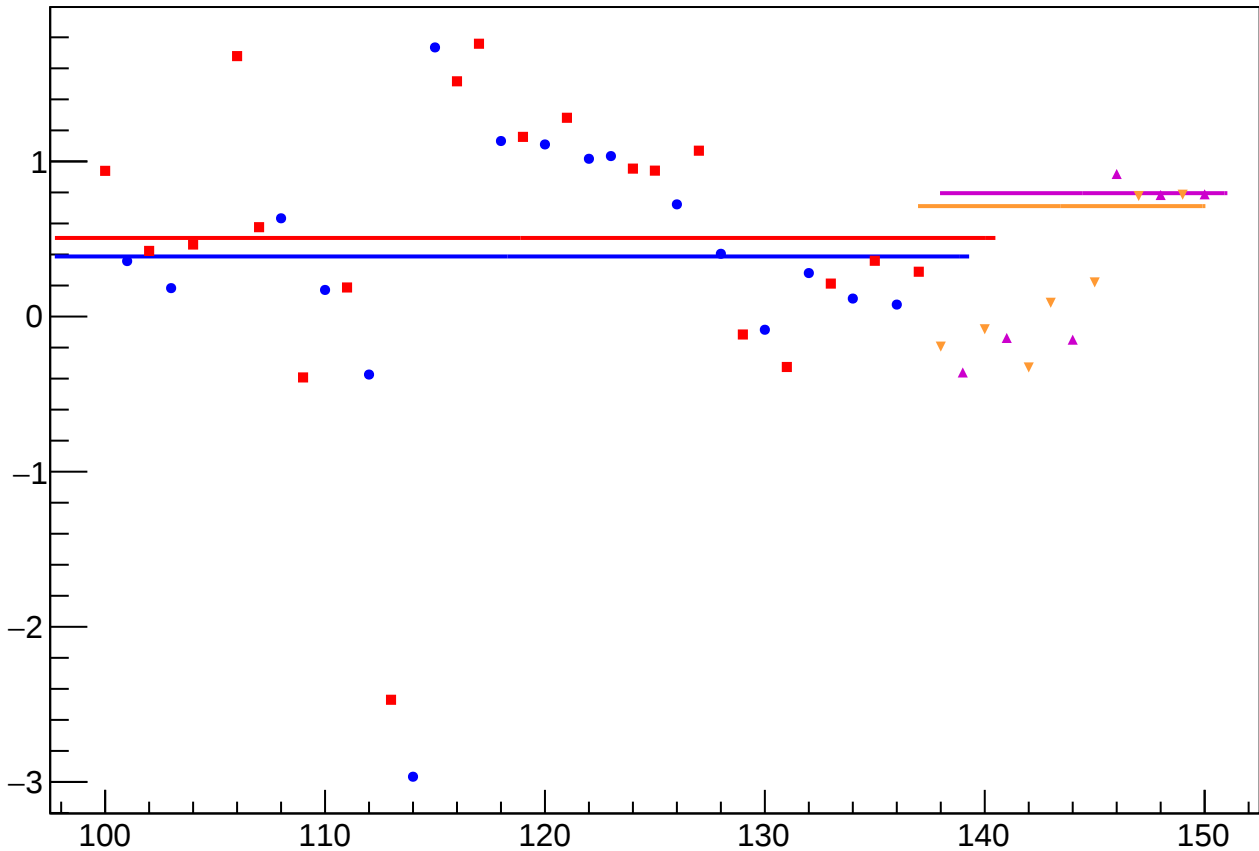
Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1255391.1/19

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:233102.3/5

0.011 $\pm$ 0.000 χ^2 /NDF: 1620808.9/23

0.012 $\pm$ 0.000 χ^2 /NDF: 1552428.7/25

yield_bpm1X_mean vs Slug



Right In: 0.387 $\pm$ 0.000 χ^2 /NDF: 247912593.5/16

Left Out: 0.712 $\pm$ 0.000 χ^2 /NDF: 302622215.9/6

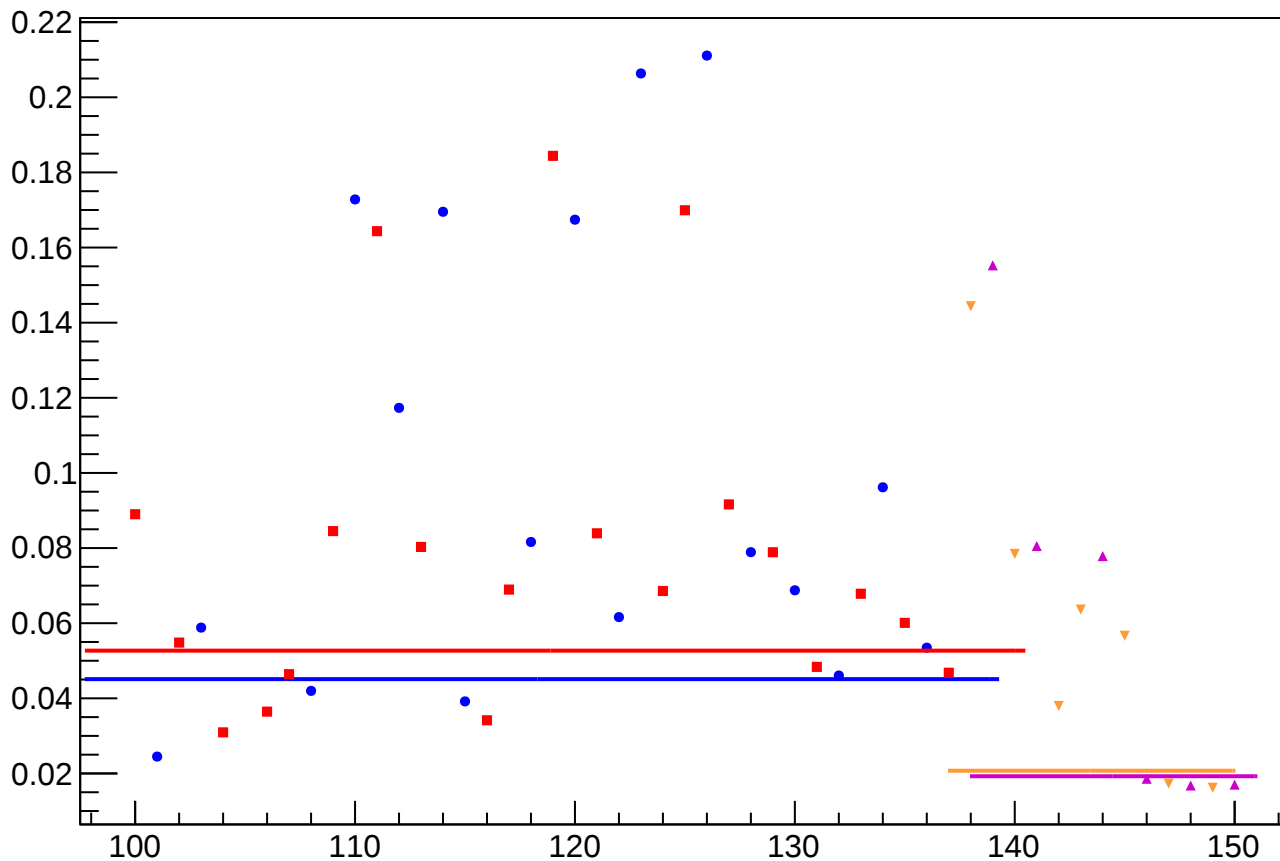
Right Out: 0.507 $\pm$ 0.000 χ^2 /NDF: 995347030.4/19

Left In: 0.795 $\pm$ 0.000 χ^2 /NDF: 203737148.3/5

0.634 $\pm$ 0.000 χ^2 /NDF: 690342468.8/23

0.745 $\pm$ 0.000 χ^2 /NDF: 1302224334.0/25

yield_bpm1X_rms vs Slug



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.021+/-0.000 χ^2/NDF :2471379.2/6

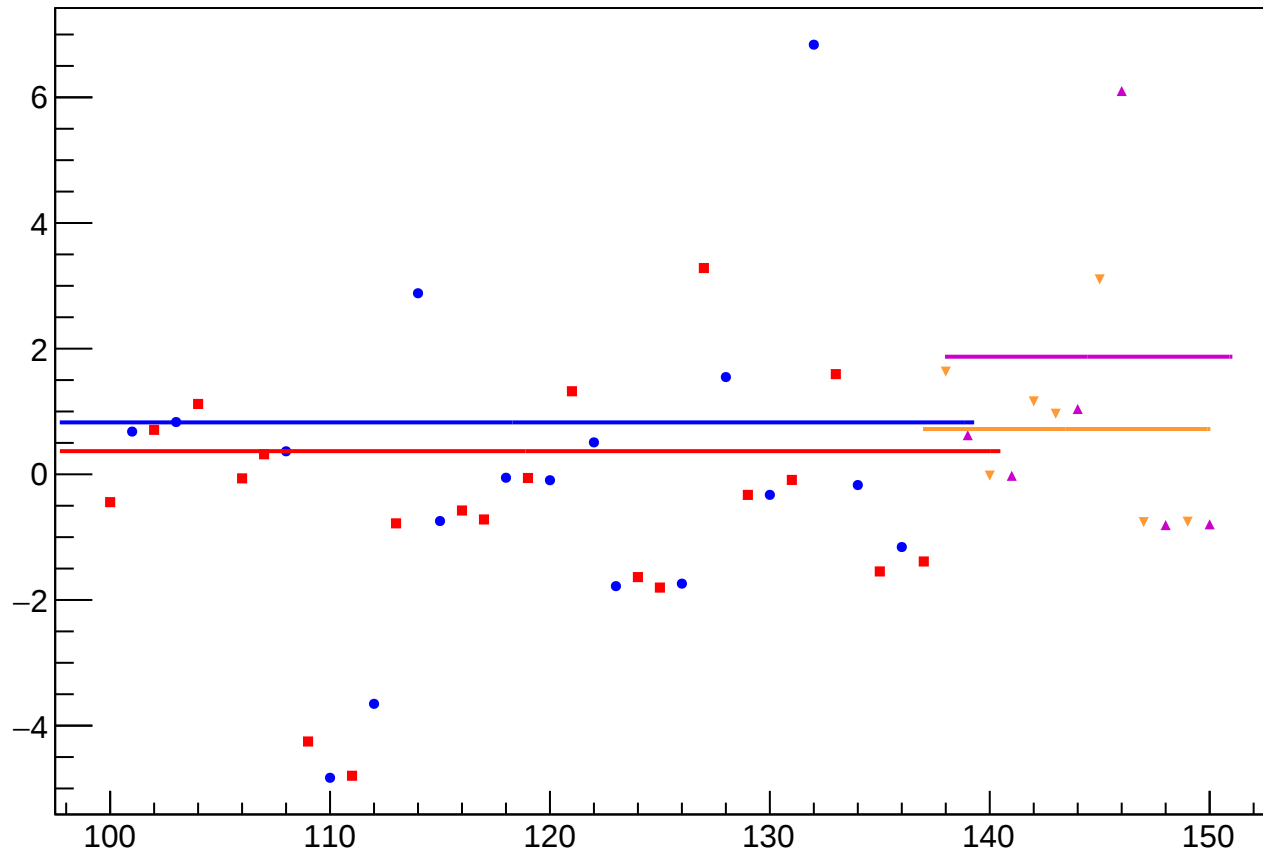
Right Out: 0.053+/-0.000 χ^2/NDF : 2194555.4/19

Left In: 0.019+/-0.000 χ^2/NDF :2124884.0/5

0.027+/-0.000 χ^2/NDF : 6895364.7/23

0.025+/-0.000 χ^2/NDF : 7087302.8/25

yield_bpm1Y_mean vs Slug



Right In: 0.827+/-0.000 χ^2/NDF : 10936458870.4/16

Left Out: 0.721+/-0.000 χ^2/NDF : 25386831043.9/6

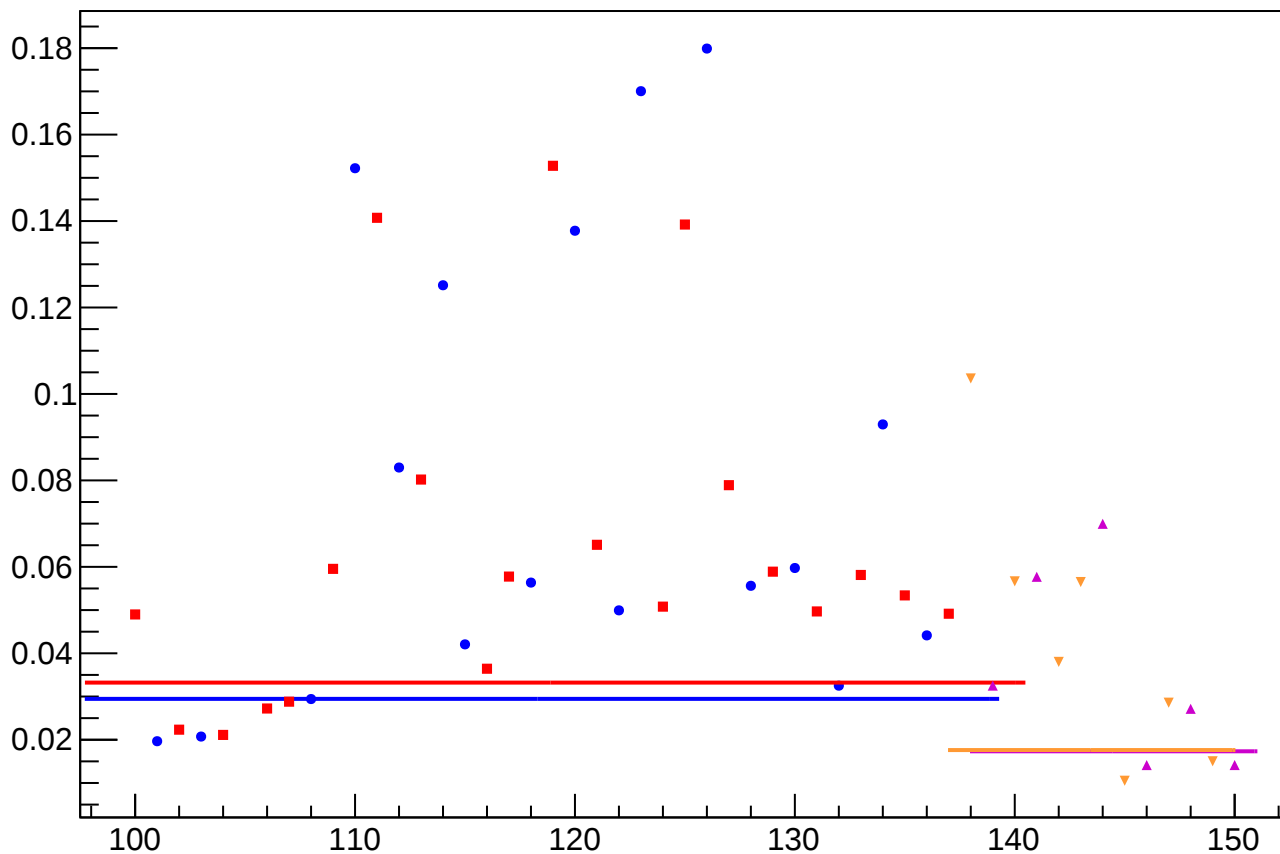
Right Out: 0.369+/-0.000 χ^2/NDF : 4985860510.0/19

Left In: 1.872+/-0.000 χ^2/NDF : 100182361059.7/5

0.757+/-0.000 χ^2/NDF : 36352148951.4/23

1.455+/-0.000 χ^2/NDF : 110897868901.9/25

yield_bpm1Y_rms vs Slug



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.018+/-0.000 χ^2/NDF :2330990.5/6

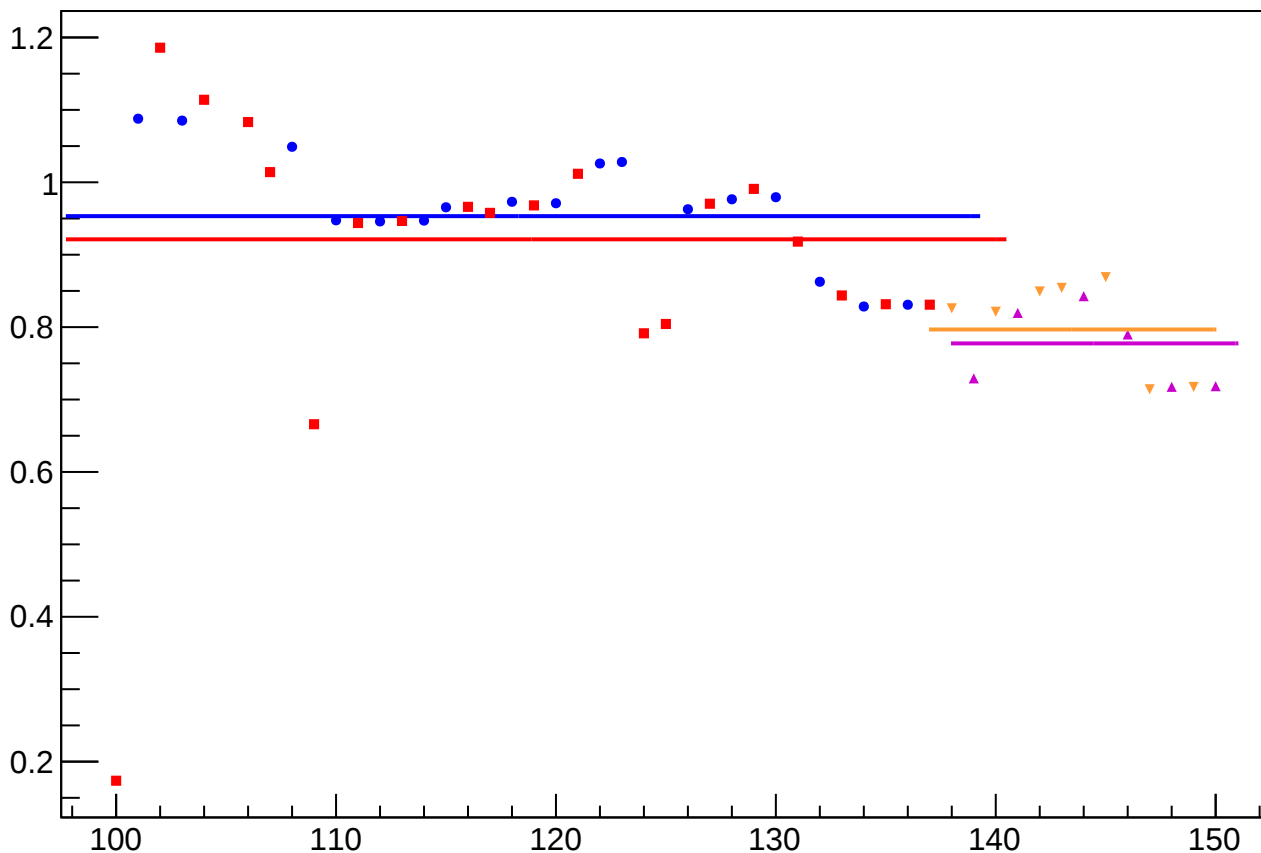
Right Out: 0.033+/-0.000 χ^2/NDF : 3110014.7/19

Left In: 0.017+/-0.000 χ^2/NDF :1519675.9/5

0.022+/-0.000 χ^2/NDF : 6113667.1/23

0.022+/-0.000 χ^2/NDF : 5911285.8/25

yield_bpm11X_mean vs Slug



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.797+/-0.000 χ^2/NDF :117234131.6/6

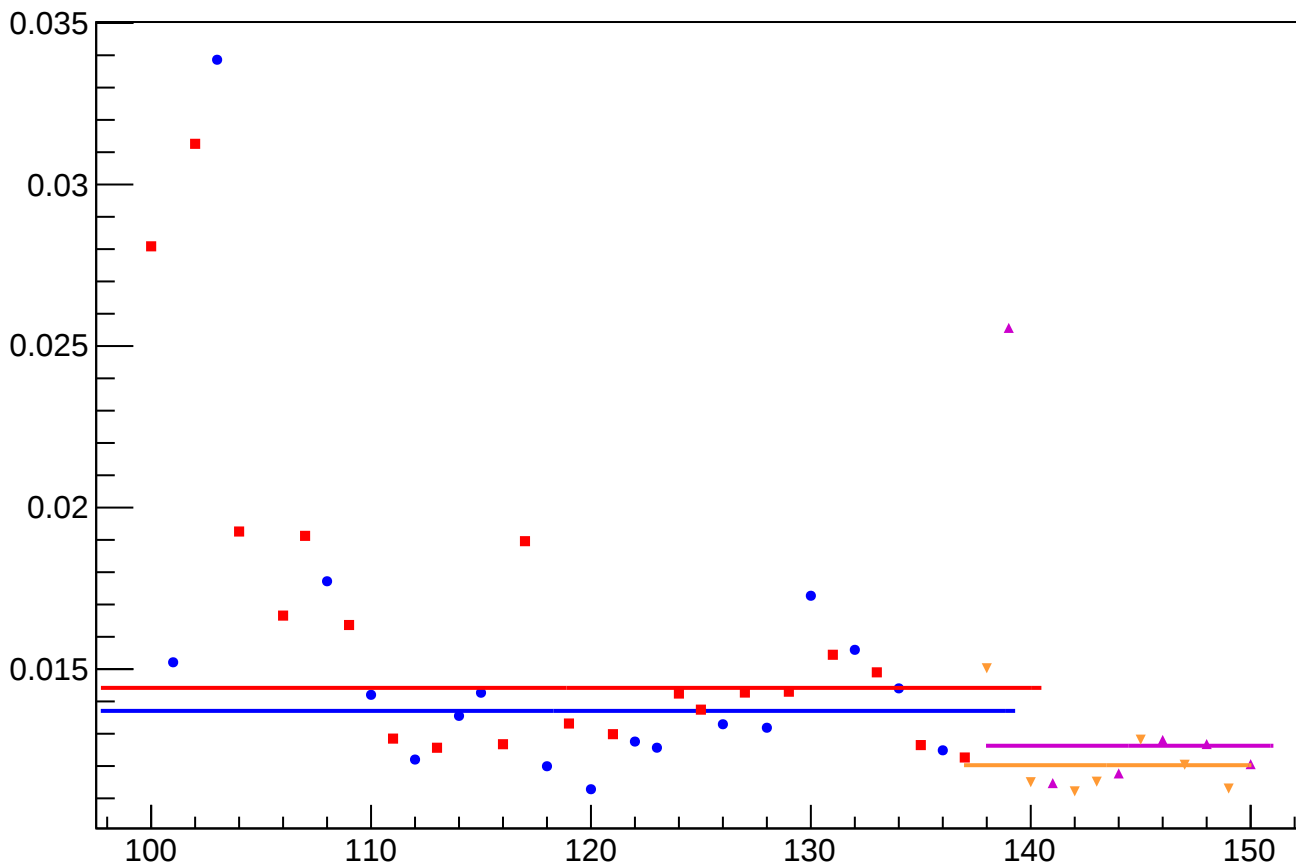
0.878+/-0.000 χ^2/NDF : 658386808.7/23

Right Out: 0.921+/-0.000 χ^2/NDF : 374376205.4/19

0.854+/-0.000 χ^2/NDF : 732452509.9/25

Left In: 0.778+/-0.000 χ^2/NDF :71194176.8/5

yield_bpm11X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.012+/-0.000 χ^2/NDF :66361.7/6

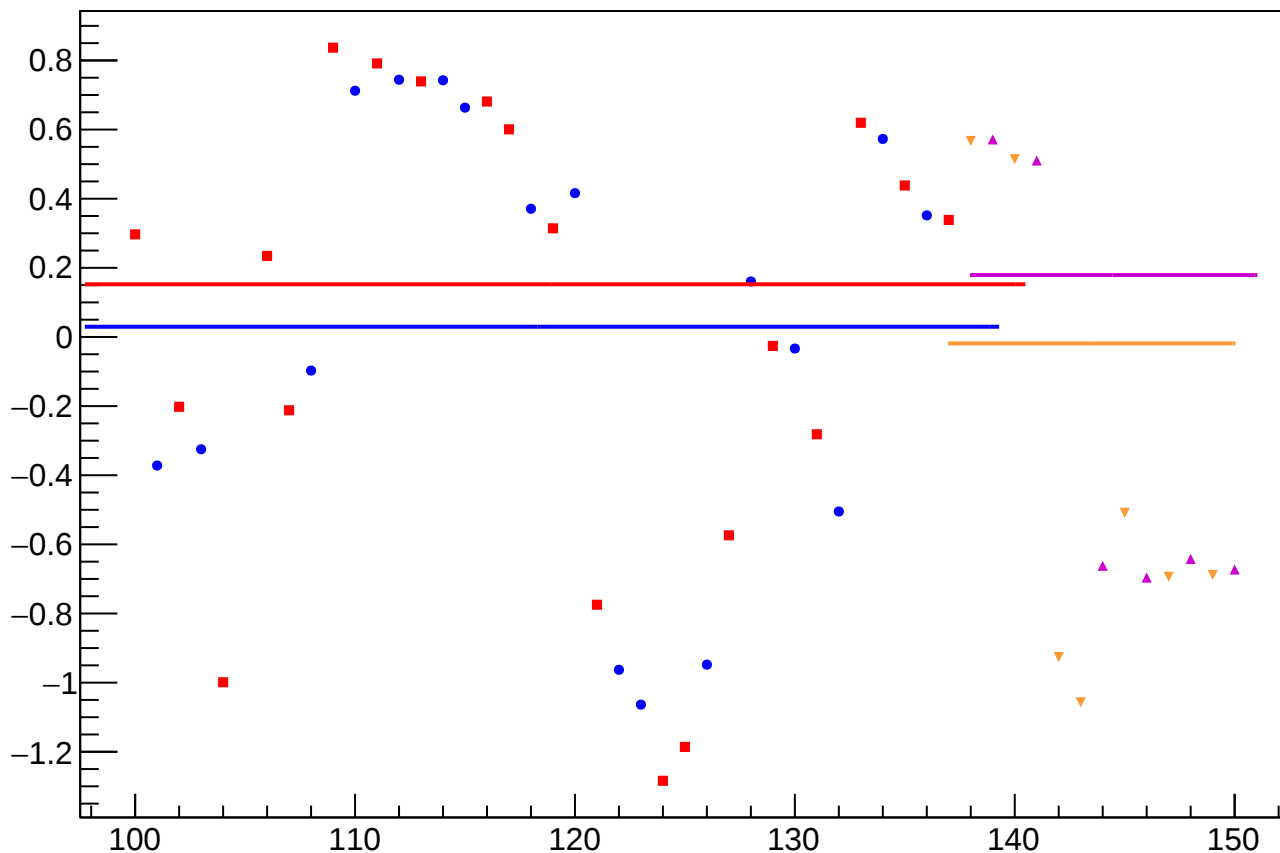
Right Out: 0.014+/-0.000 χ^2/NDF : 506553.4/19

Left In: 0.013+/-0.000 χ^2/NDF :362843.1/5

0.013+/-0.000 χ^2/NDF : 697082.1/23

0.014+/-0.000 χ^2/NDF : 958522.0/25

yield_bpm11Y_mean vs Slug



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: -0.019+/-0.000 χ^2/NDF :16504402315.6/6

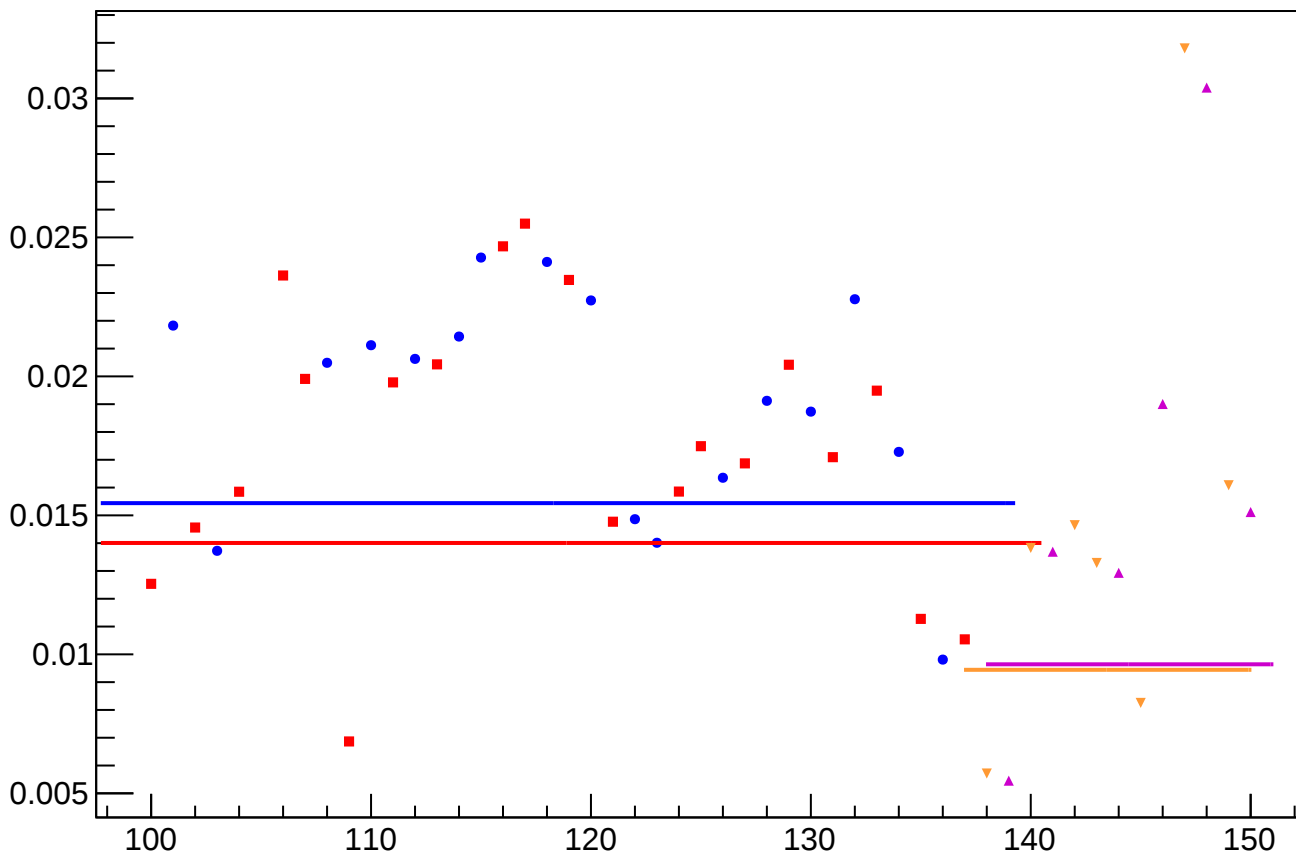
Right Out: 0.152+/-0.000 χ^2/NDF : 12673501089.9/19

Left In: 0.179+/-0.000 χ^2/NDF :11974166034.0/5

-0.001+/-0.000 χ^2/NDF : 22834071762.6/23

0.167+/-0.000 χ^2/NDF : 24659182247.6/25

yield_bpm11Y_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.009+/-0.000 χ^2/NDF :1895576.1/6

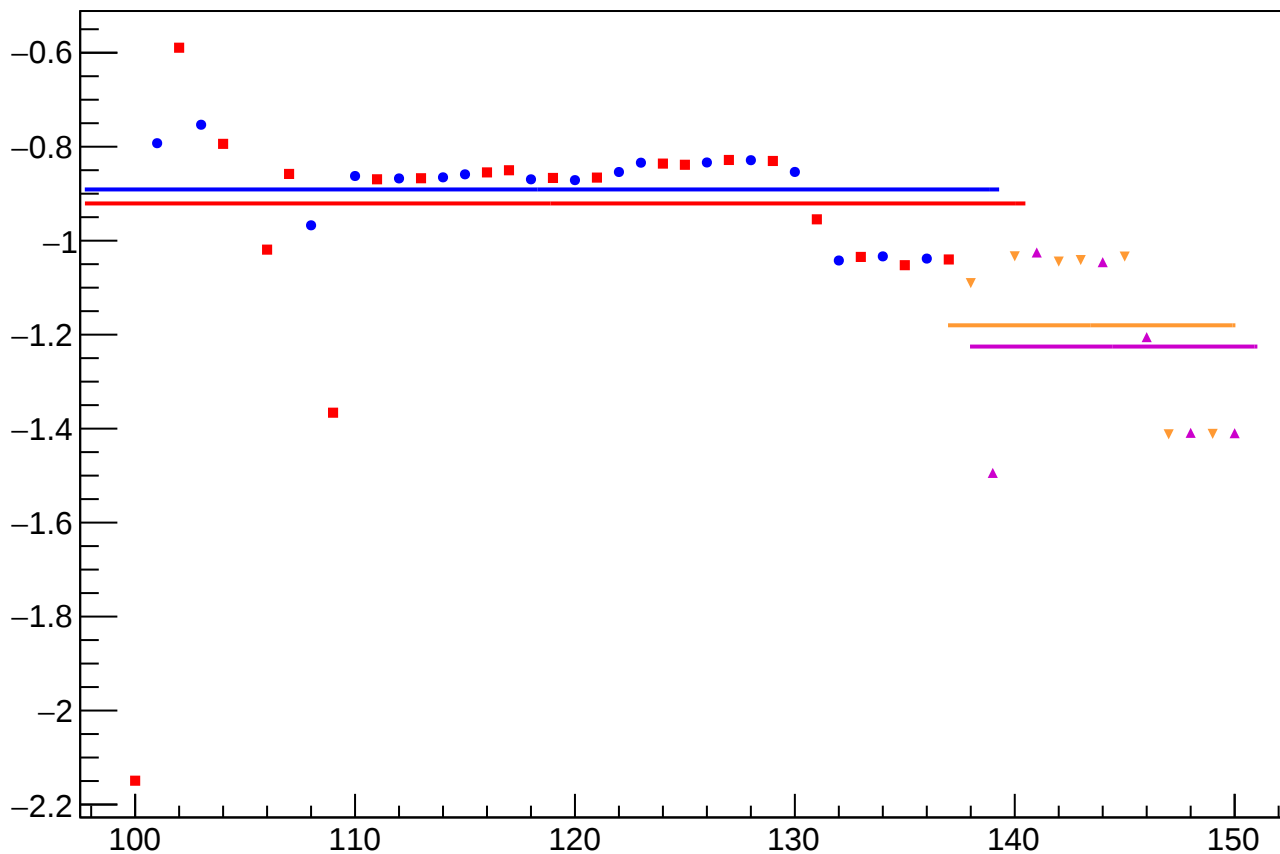
Right Out: 0.014+/-0.000 χ^2/NDF : 1576149.9/19

Left In: 0.010+/-0.000 χ^2/NDF :2262073.8/5

0.012+/-0.000 χ^2/NDF : 4129890.5/23

0.012+/-0.000 χ^2/NDF : 4452877.5/25

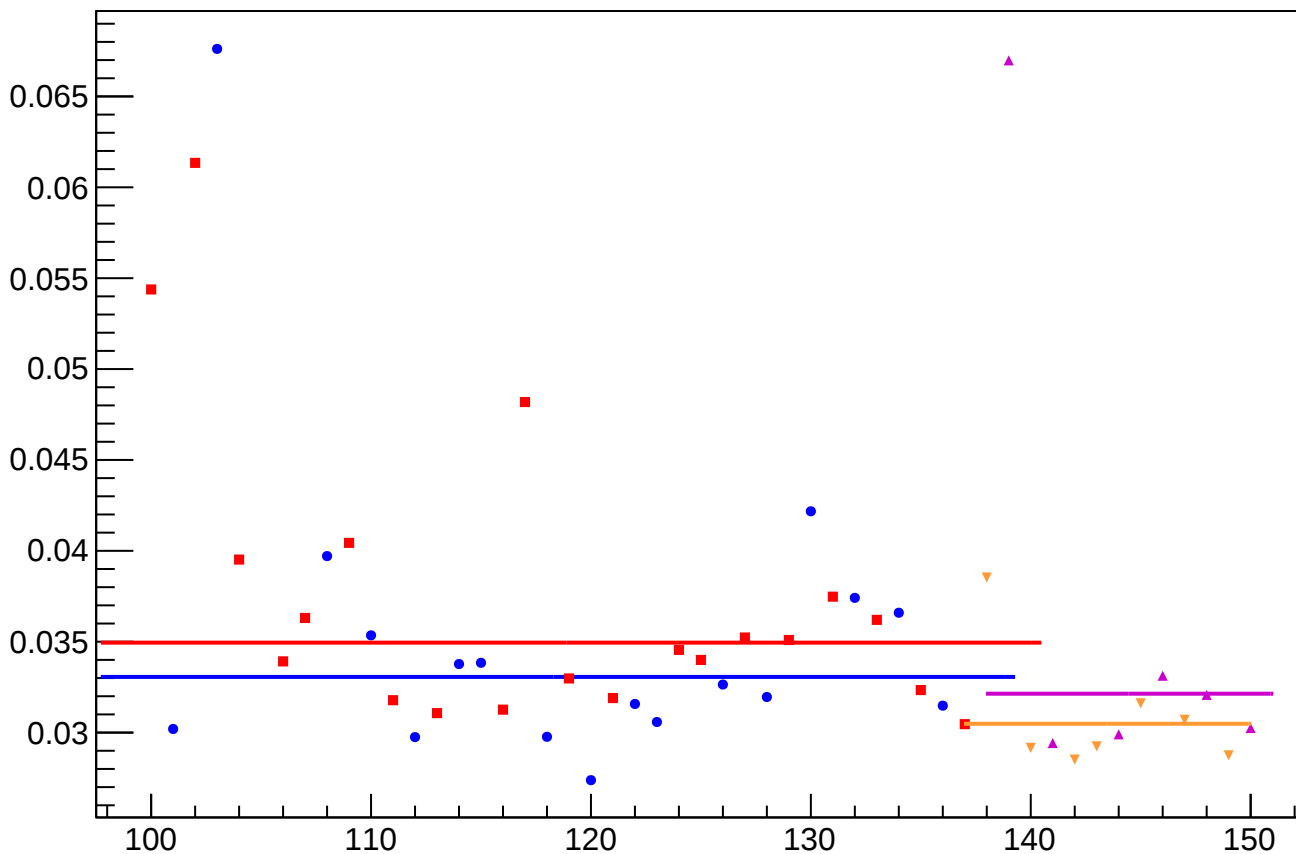
yield_bpm12X_mean vs Slug



-1.022 ± 0.000 $\chi^2/\text{NDF}: 383003764.9/23$

-1.056 ± 0.000 $\chi^2/\text{NDF}: 463079567.2/25$

yield_bpm12X_rms vs Slug



Right In: 0.033 ± 0.000 $\chi^2/NDF: 409286.7/16$

Left Out: 0.030 ± 0.000 $\chi^2/NDF: 66811.9/6$

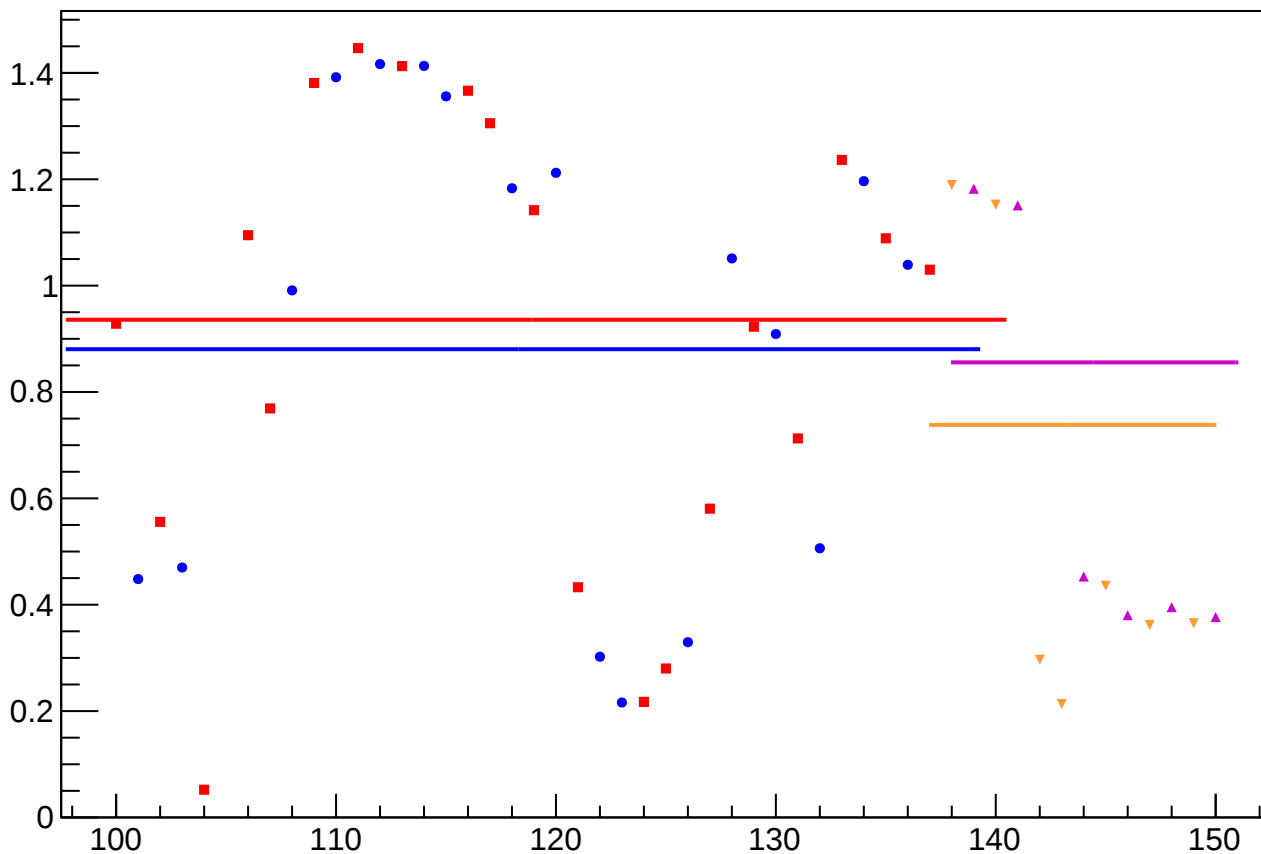
Right Out: 0.035 ± 0.000 $\chi^2/NDF: 280500.4/19$

Left In: 0.032 ± 0.000 $\chi^2/NDF: 383397.0/5$

0.032 ± 0.000 $\chi^2/NDF: 508402.6/23$

0.034 ± 0.000 $\chi^2/NDF: 699339.5/25$

yield_bpm12Y_mean vs Slug



Right In: 0.880 $\pm$ 0.000 χ^2/NDF : 6400108121.4/16

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF : 11903714947.0/6

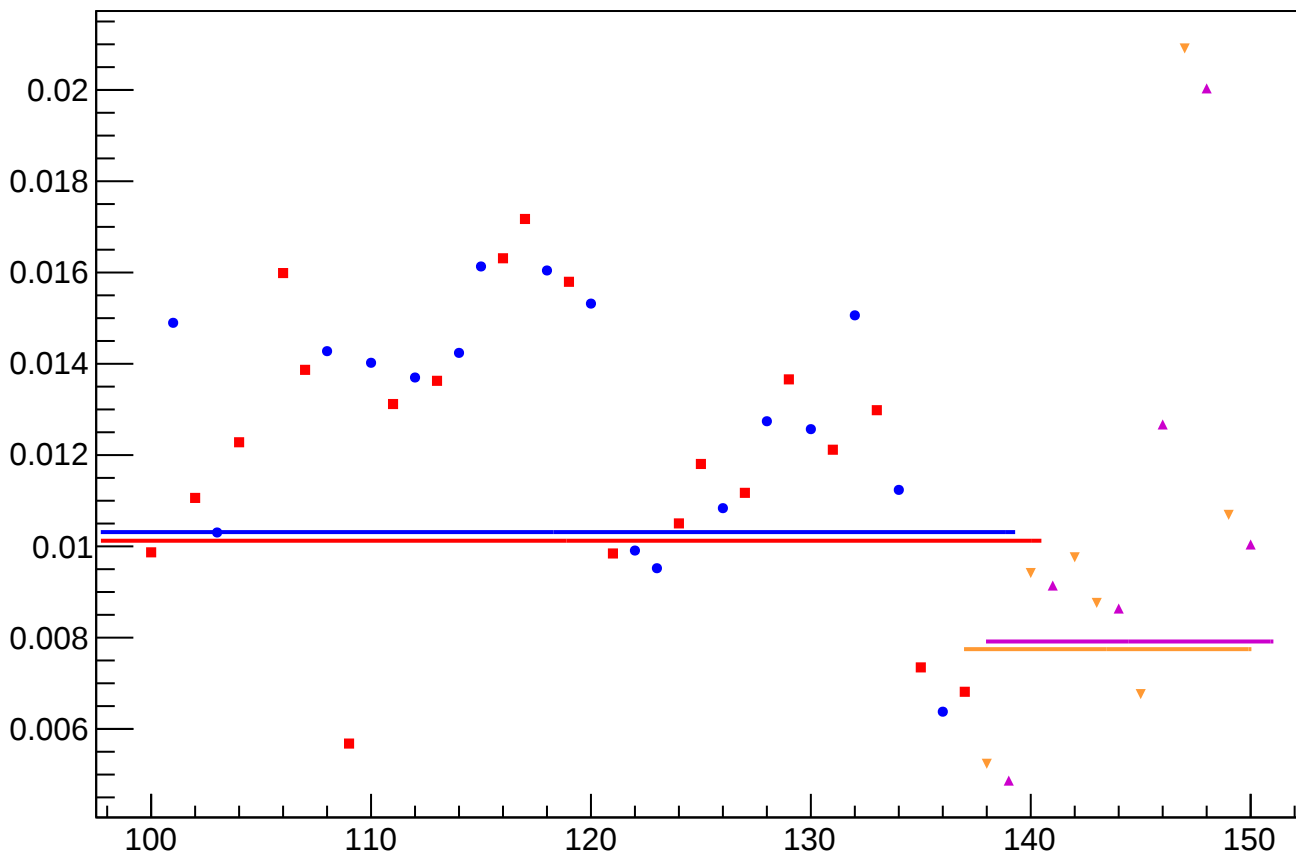
Right Out: 0.936 $\pm$ 0.000 χ^2/NDF : 9851303698.9/19

Left In: 0.856 $\pm$ 0.000 χ^2/NDF : 8809058980.3/5

0.800 $\pm$ 0.000 χ^2/NDF : 18906650514.7/23

0.894 $\pm$ 0.000 χ^2/NDF : 18851672238.5/25

yield_bpm12Y_rms vs Slug



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.008+/-0.000 χ^2/NDF : 1144587.6/6

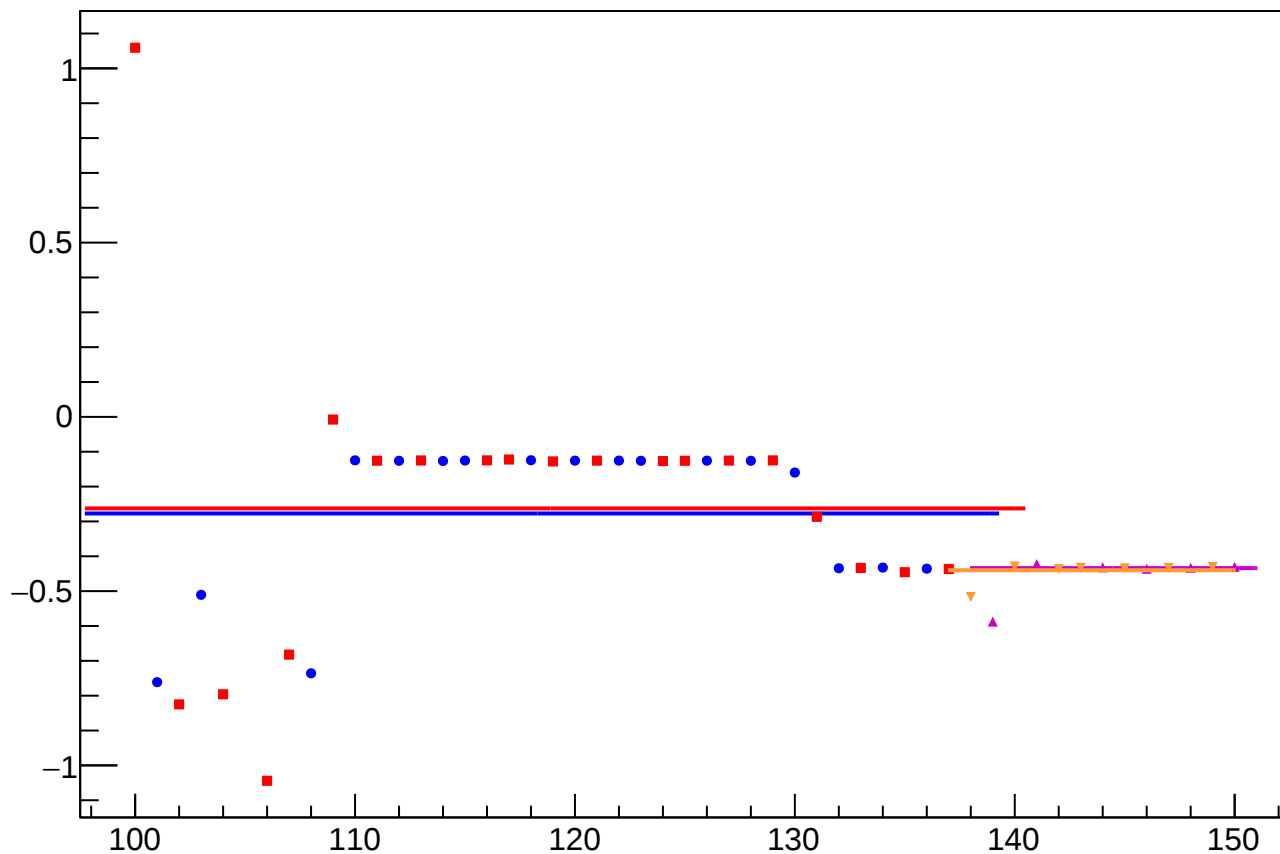
Right Out: 0.010+/-0.000 χ^2/NDF : 1191429.9/19

Left In: 0.008+/-0.000 χ^2/NDF : 1369996.9/5

0.009+/-0.000 χ^2/NDF : 2767168.9/23

0.009+/-0.000 χ^2/NDF : 2851663.1/25

yield_bpm16X_mean vs Slug



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.440 ± 0.000 χ^2/NDF : 23687055.2/6

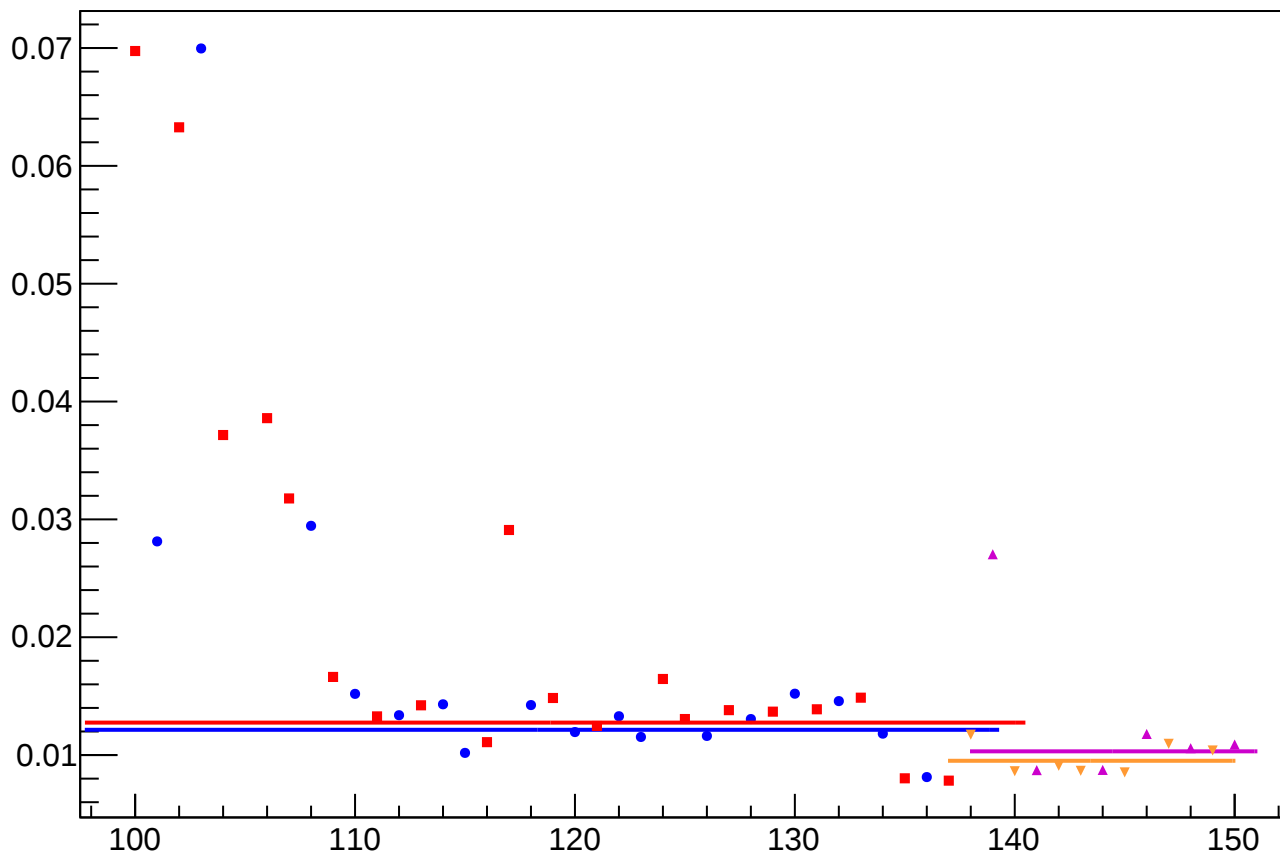
Right Out: -0.263 ± 0.000 χ^2/NDF : 1009303829.9/19

Left In: -0.434 ± 0.000 χ^2/NDF : 22657870.3/5

-0.370 ± 0.000 χ^2/NDF : 1446735811.1/23

-0.355 ± 0.000 χ^2/NDF : 1506997421.6/25

yield_bpm16X_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:107723.5/6

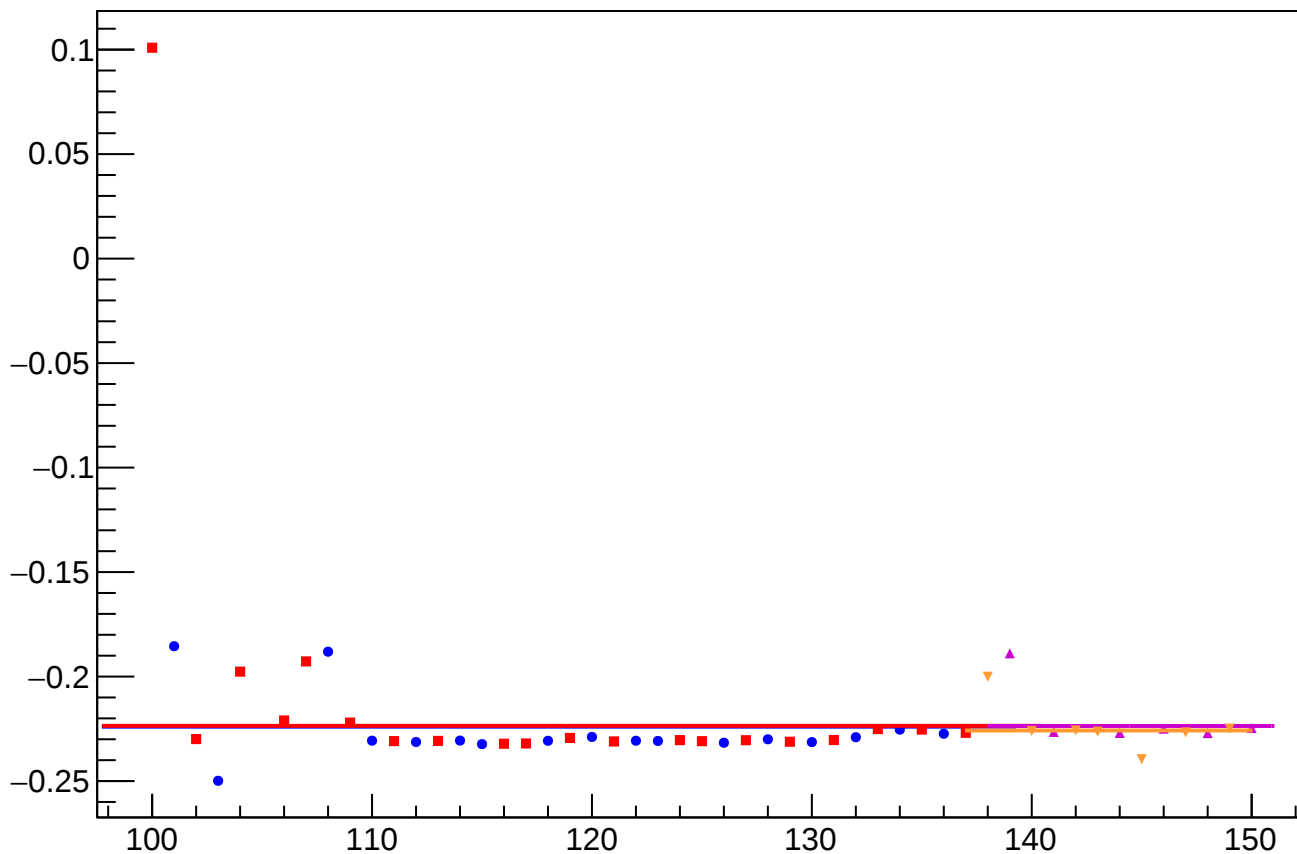
Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1993726.2/19

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:620418.6/5

0.011 $\pm$ 0.000 χ^2 /NDF: 2086792.6/23

0.011 $\pm$ 0.000 χ^2 /NDF: 2806679.9/25

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 : 20512481.1/6

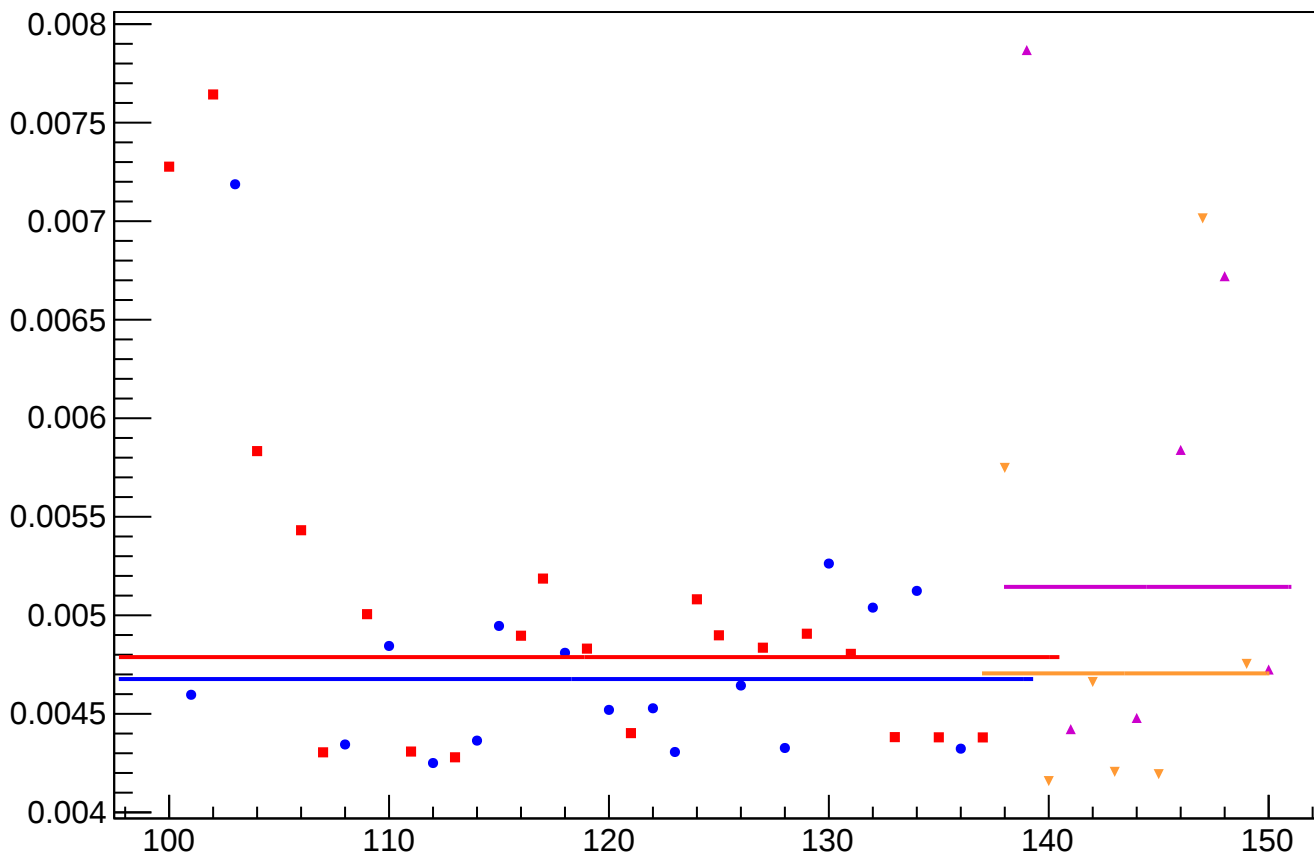
Right Out: -0.224+/-0.000 χ^2/NDF : 168231258.4/19

Left In: -0.224+/-0.000 χ^2/NDF : 13546261.6/5

-0.225+/-0.000 χ^2/NDF : 95616508.0/23

-0.224+/-0.000 χ^2/NDF : 181777823.9/25

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 : 271602.9/6

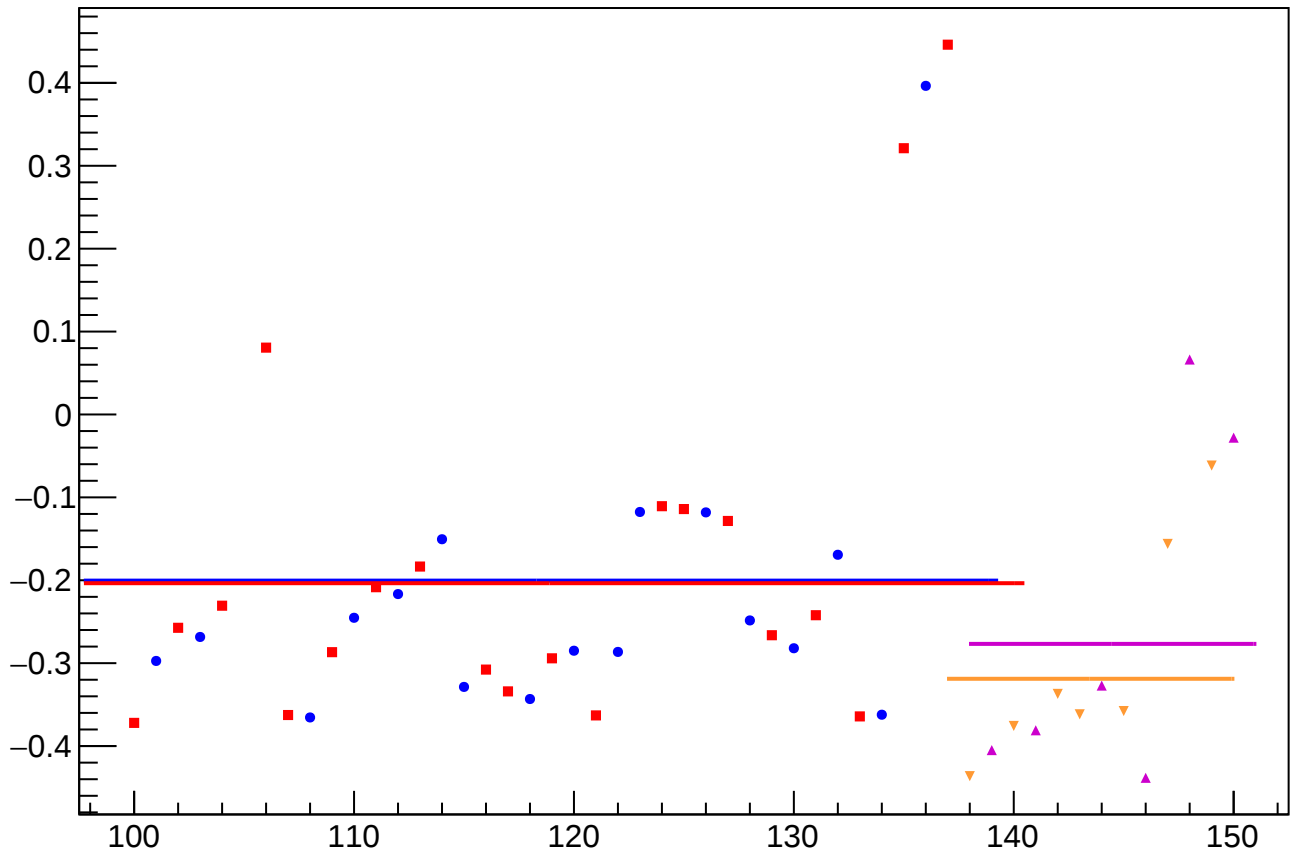
Right Out: 0.005+/-0.000 χ^2/NDF : 248668.3/19

Left In: 0.005+/-0.000 χ^2/NDF : 347462.2/5

0.005+/-0.000 χ^2/NDF : 453130.0/23

0.005+/-0.000 χ^2/NDF : 622449.4/25

yield_bpm0i02X_mean vs Slug



Right In: -0.200+/-0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.319+/-0.000 χ^2/NDF : 2284642102.9/6

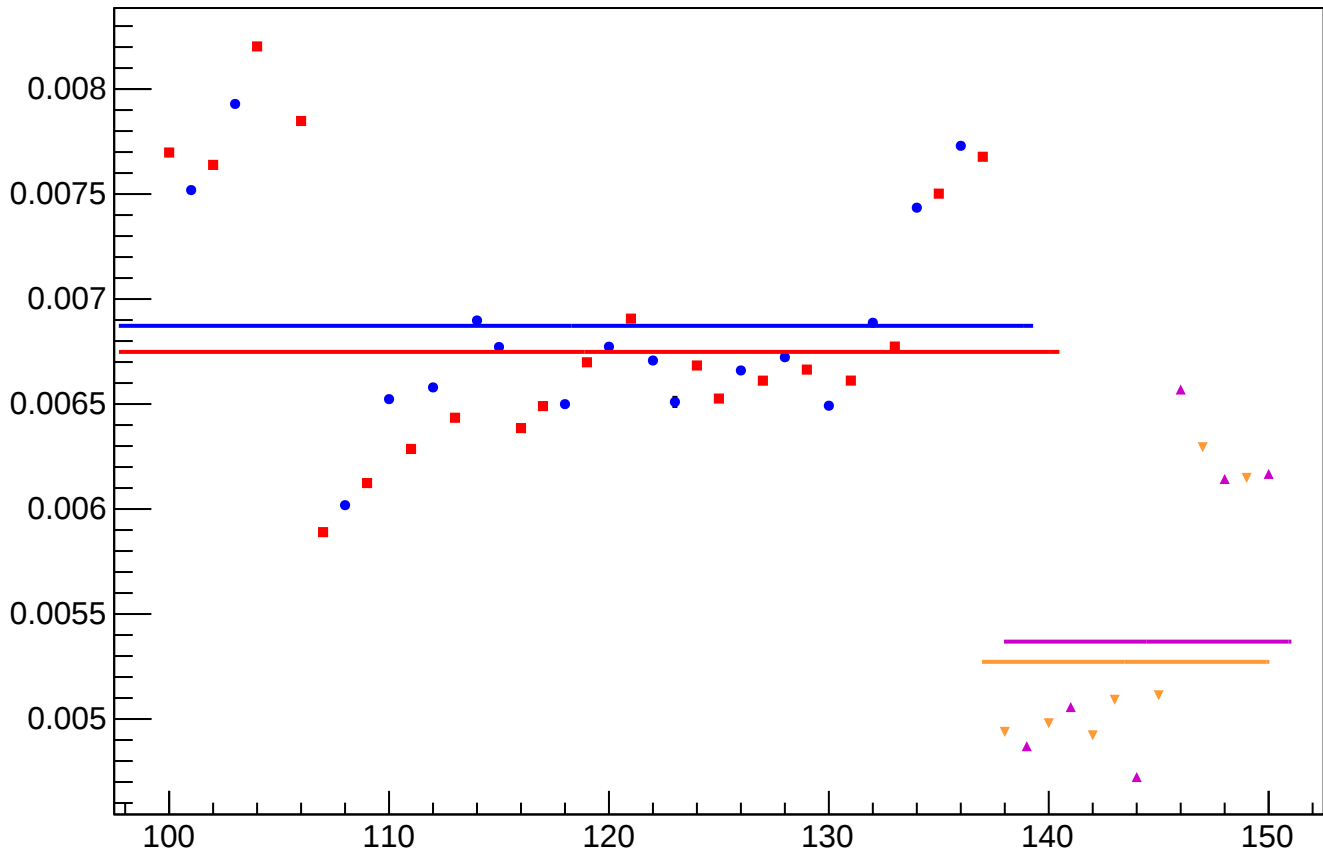
-0.264+/-0.000 χ^2/NDF : 9309574171.5/23

Right Out: -0.204+/-0.000 χ^2/NDF : 5045878528.0/19

-0.240+/-0.000 χ^2/NDF : 10065692109.5/25

Left In: -0.277+/-0.000 χ^2/NDF : 4617303635.8/5

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 : 82120.8/6

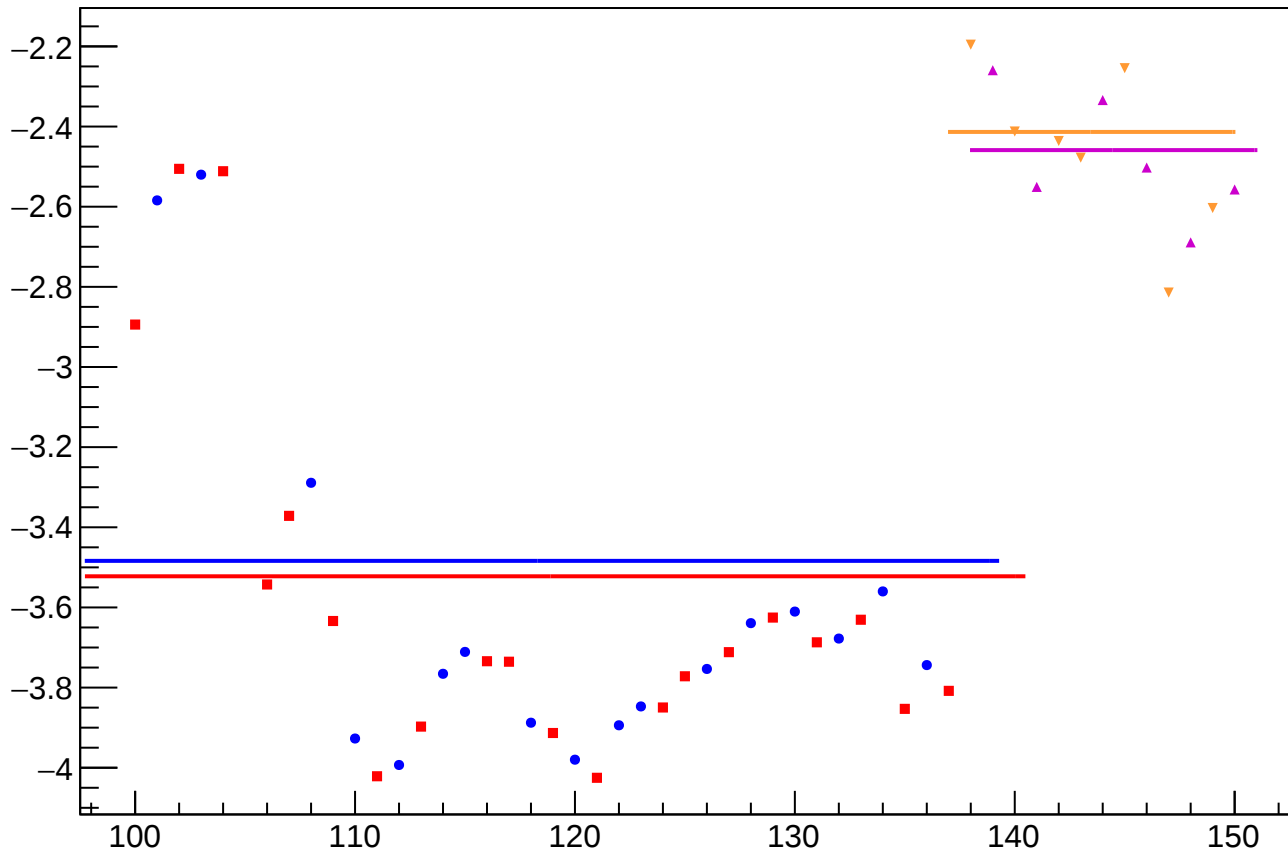
Right Out: 0.007+/-0.000 χ^2/NDF : 105262.1/19

Left In: 0.005+/-0.000 χ^2/NDF : 139090.3/5

0.006+/-0.000 χ^2/NDF : 544713.4/23

0.006+/-0.000 χ^2/NDF : 530345.8/25

yield_bpm0i02Y_mean vs Slug



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.413+/-0.000 χ^2/NDF : 1260603059.6/6

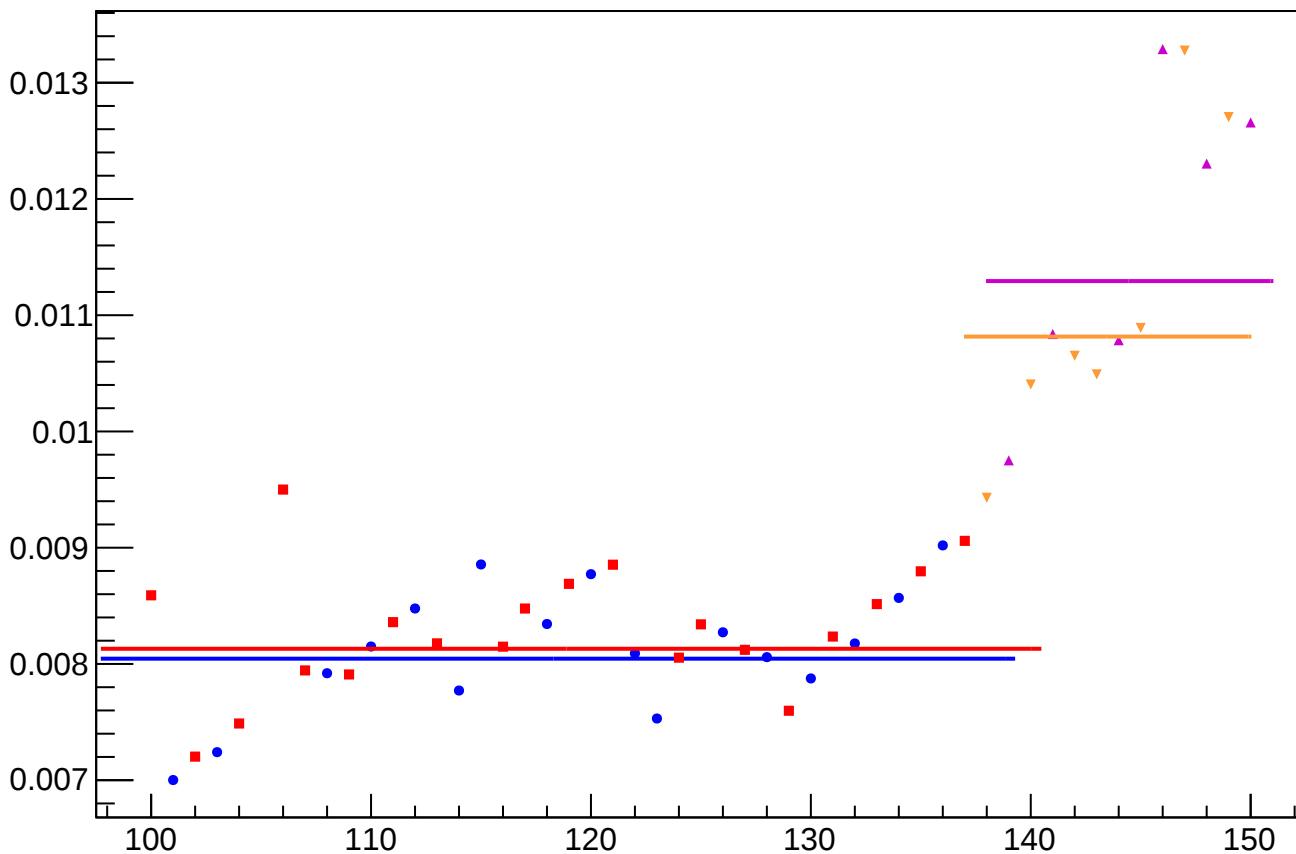
-3.189+/-0.000 χ^2/NDF : 60193468520.1/23

Right Out: -3.522+/-0.000 χ^2/NDF : 26497611752.4/19

-3.259+/-0.000 χ^2/NDF : 56069963179.4/25

Left In: -2.459+/-0.000 χ^2/NDF : 742532412.4/5

yield_bpm0i02Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :107388.5/6

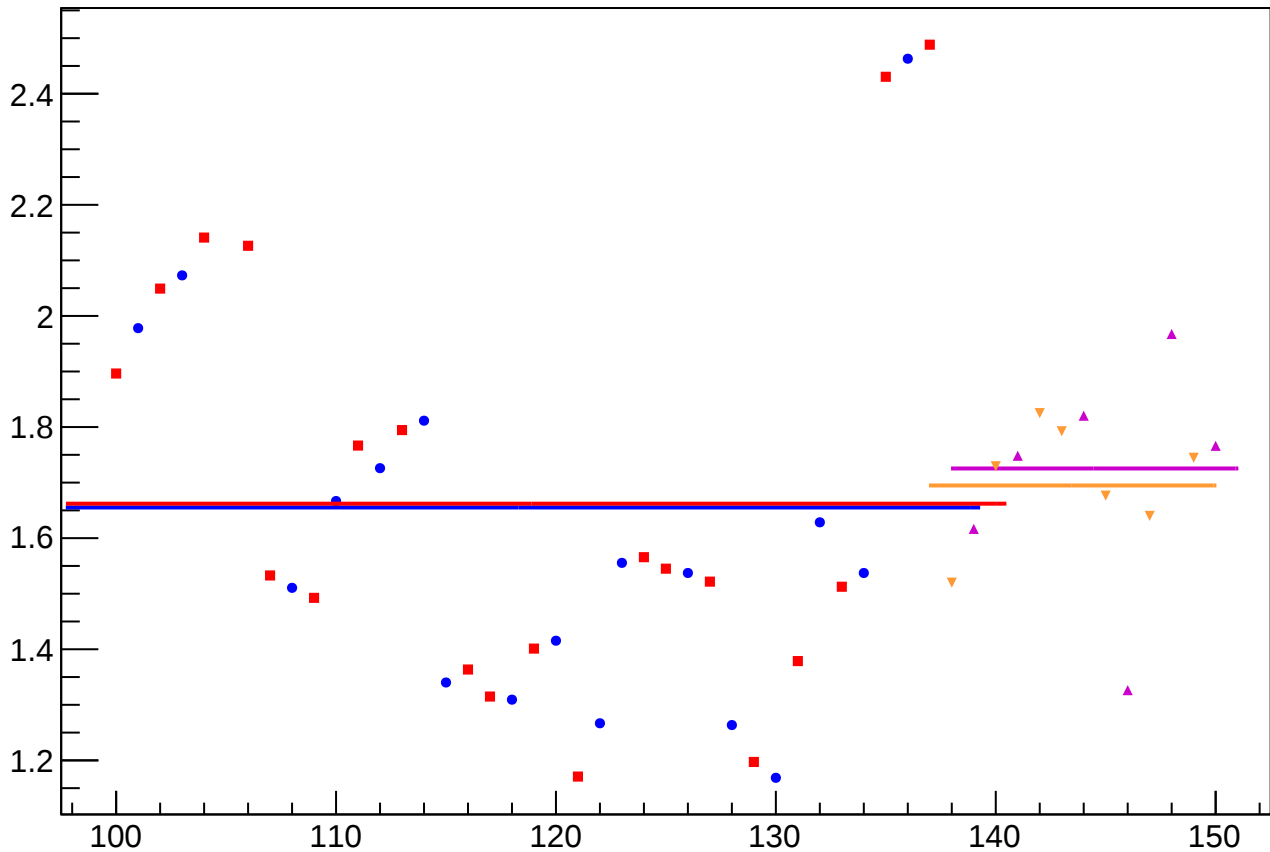
Right Out: 0.008+/-0.000 χ^2/NDF : 57613.2/19

Left In: 0.011+/-0.000 χ^2/NDF :94267.2/5

0.009+/-0.000 χ^2/NDF : 604953.6/23

0.009+/-0.000 χ^2/NDF : 661910.1/25

yield_bpm0i02aX_mean vs Slug



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.695+/-0.000 χ^2/NDF :331646464.1/6

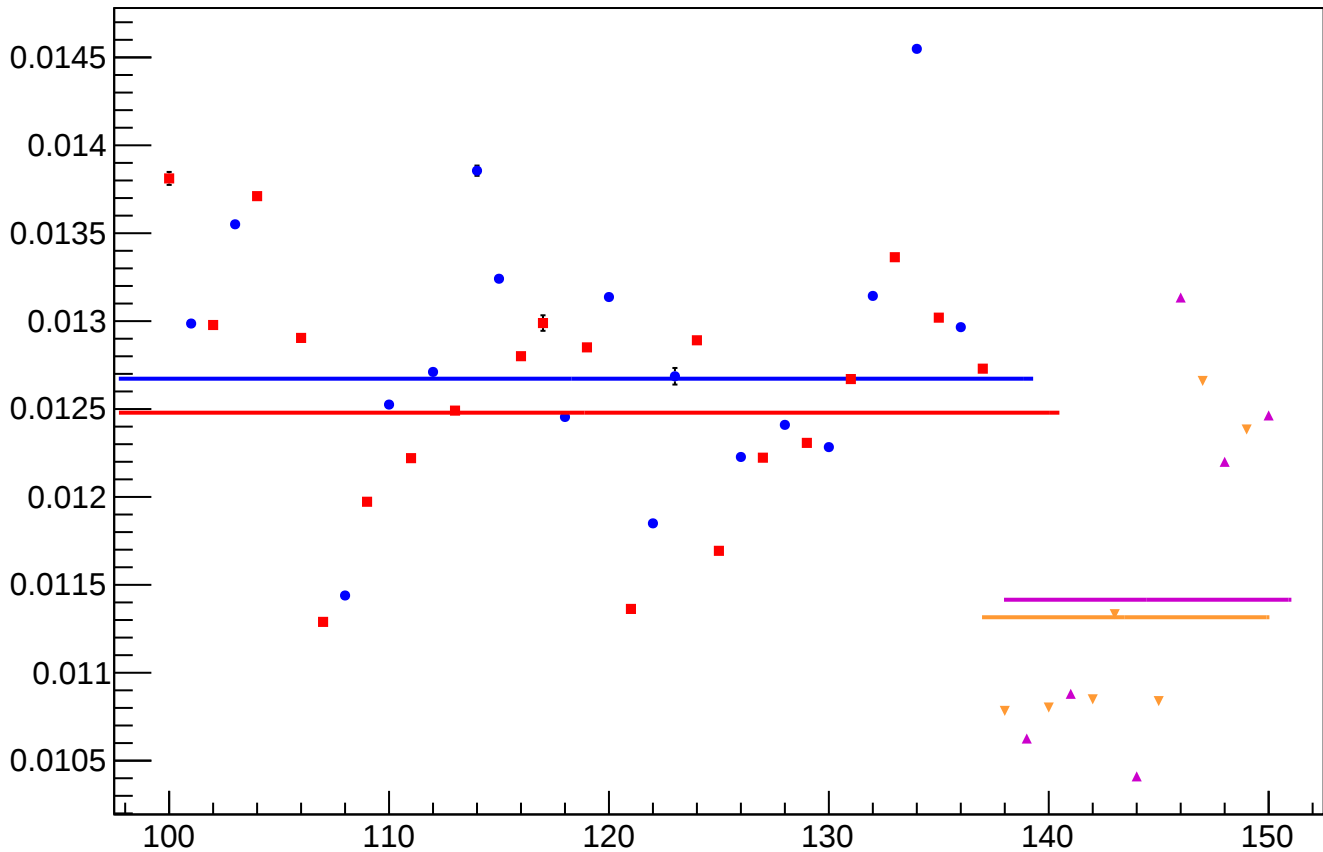
1.674+/-0.000 χ^2/NDF : 6838497378.8/23

Right Out: 1.662+/-0.000 χ^2/NDF : 5975345573.0/19

1.690+/-0.000 χ^2/NDF : 7130669771.6/25

Left In: 1.725+/-0.000 χ^2/NDF :1077209173.9/5

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 :38522.5/6

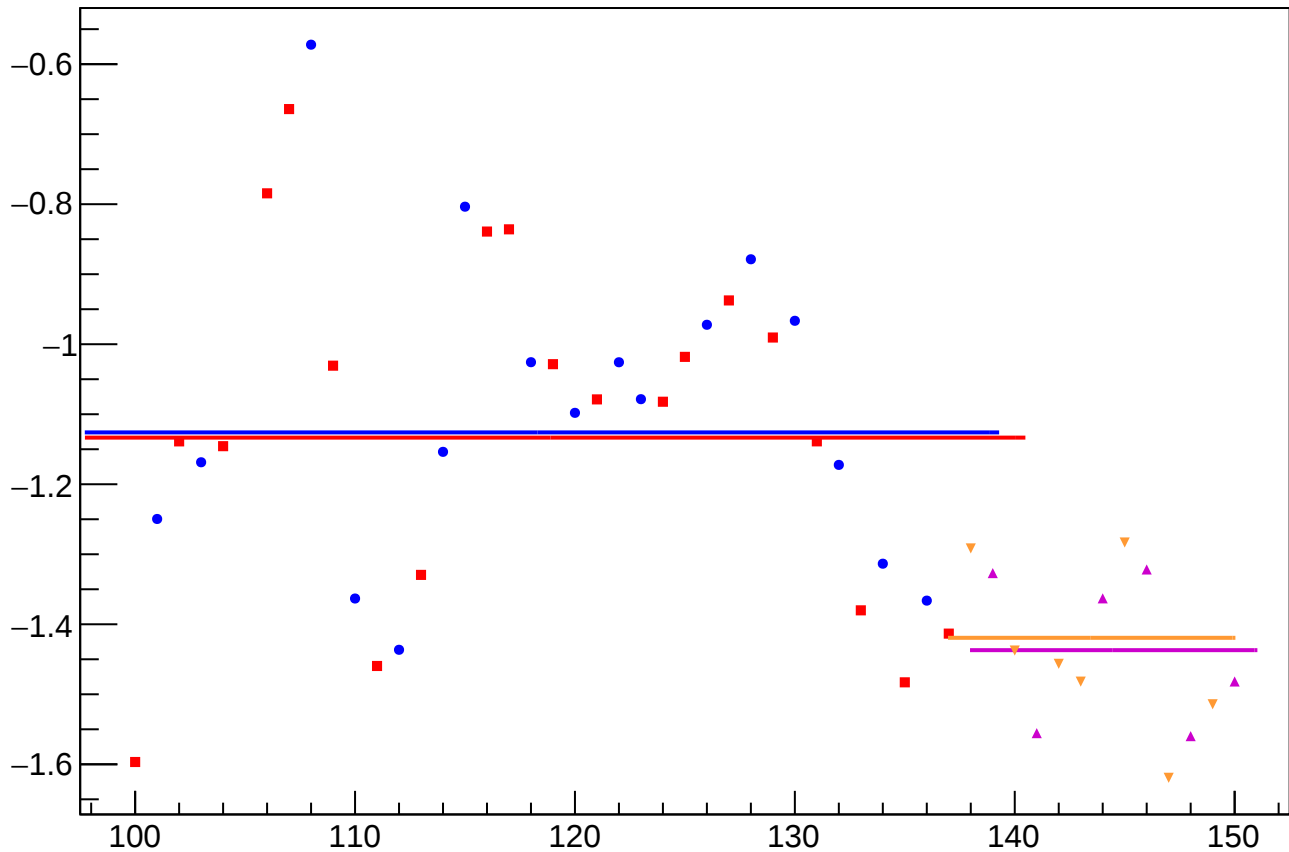
Right Out: 0.012+/-0.000 χ^2/NDF : 39268.9/19

Left In: 0.011+/-0.000 χ^2/NDF :67932.8/5

0.012+/-0.000 χ^2/NDF : 141673.2/23

0.012+/-0.000 χ^2/NDF : 151245.9/25

yield_bpm0i02aY_mean vs Slug



Right In: -1.126 ± 0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.419 ± 0.000 χ^2/NDF : 659191387.4/6

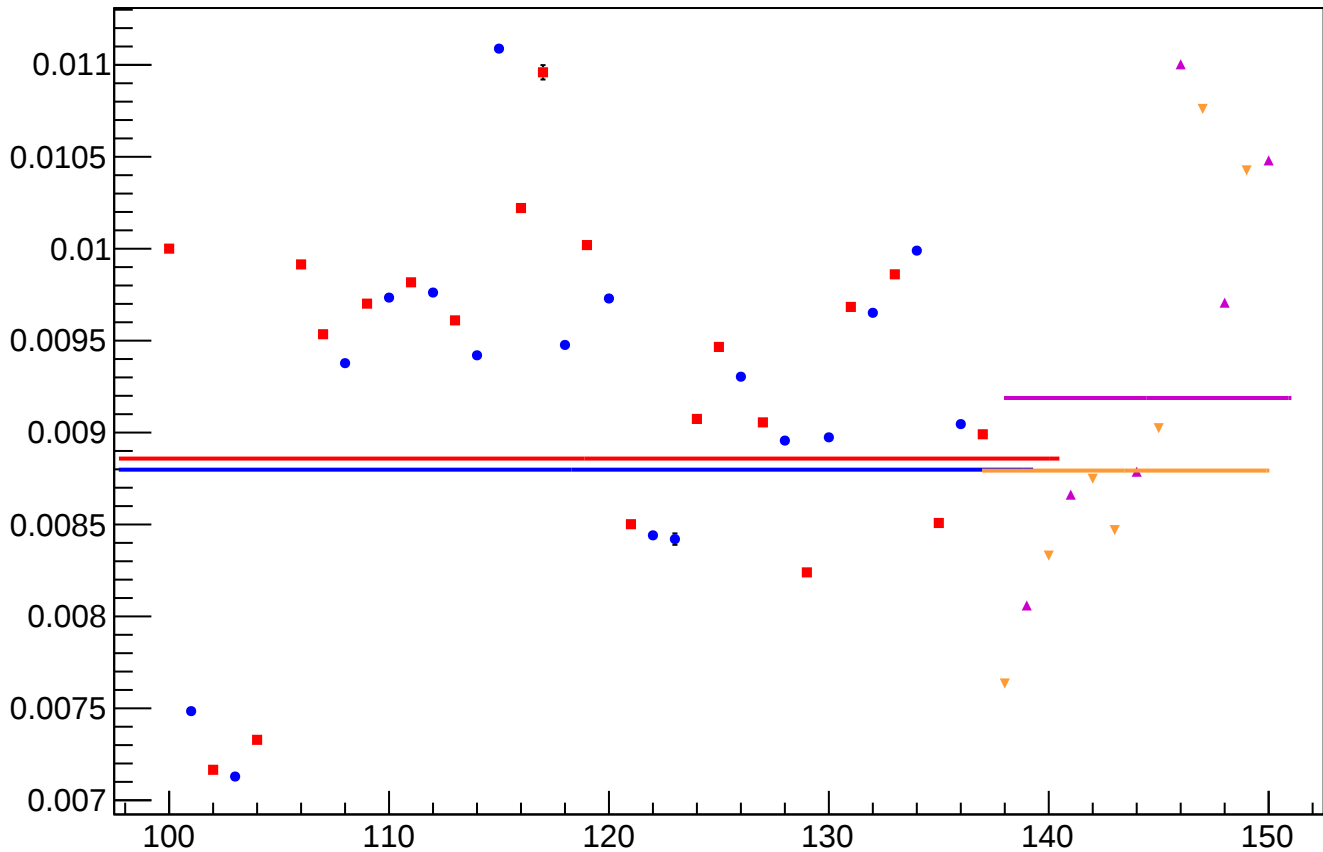
Right Out: -1.133 ± 0.000 χ^2/NDF : 3706528266.7/19

Left In: -1.437 ± 0.000 χ^2/NDF : 525871601.5/5

-1.246 ± 0.000 χ^2/NDF : 7143993334.0/23

-1.247 ± 0.000 χ^2/NDF : 7161990393.4/25

yield_bpm0i02aY_rms vs Slug



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :114507.1/6

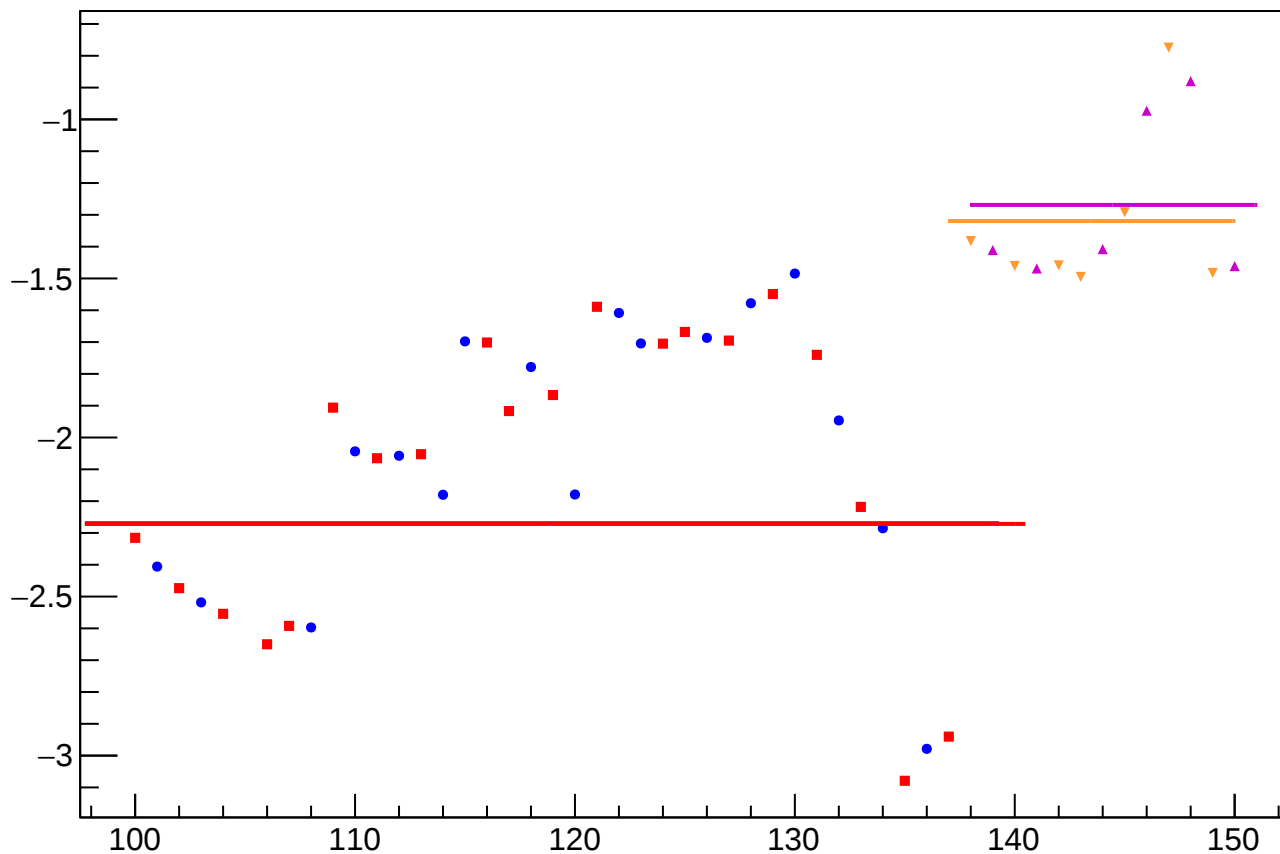
Right Out: 0.009+/-0.000 χ^2/NDF : 176858.0/19

Left In: 0.009+/-0.000 χ^2/NDF :95211.4/5

0.009+/-0.000 χ^2/NDF : 266095.6/23

0.009+/-0.000 χ^2/NDF : 278975.8/25

yield_bpm0i05X_mean vs Slug



Right In: -2.270+/-0.000 χ^2 /NDF: 17408567065.9/16

Left Out: -1.320+/-0.000 χ^2 /NDF: 5184761351.6/6

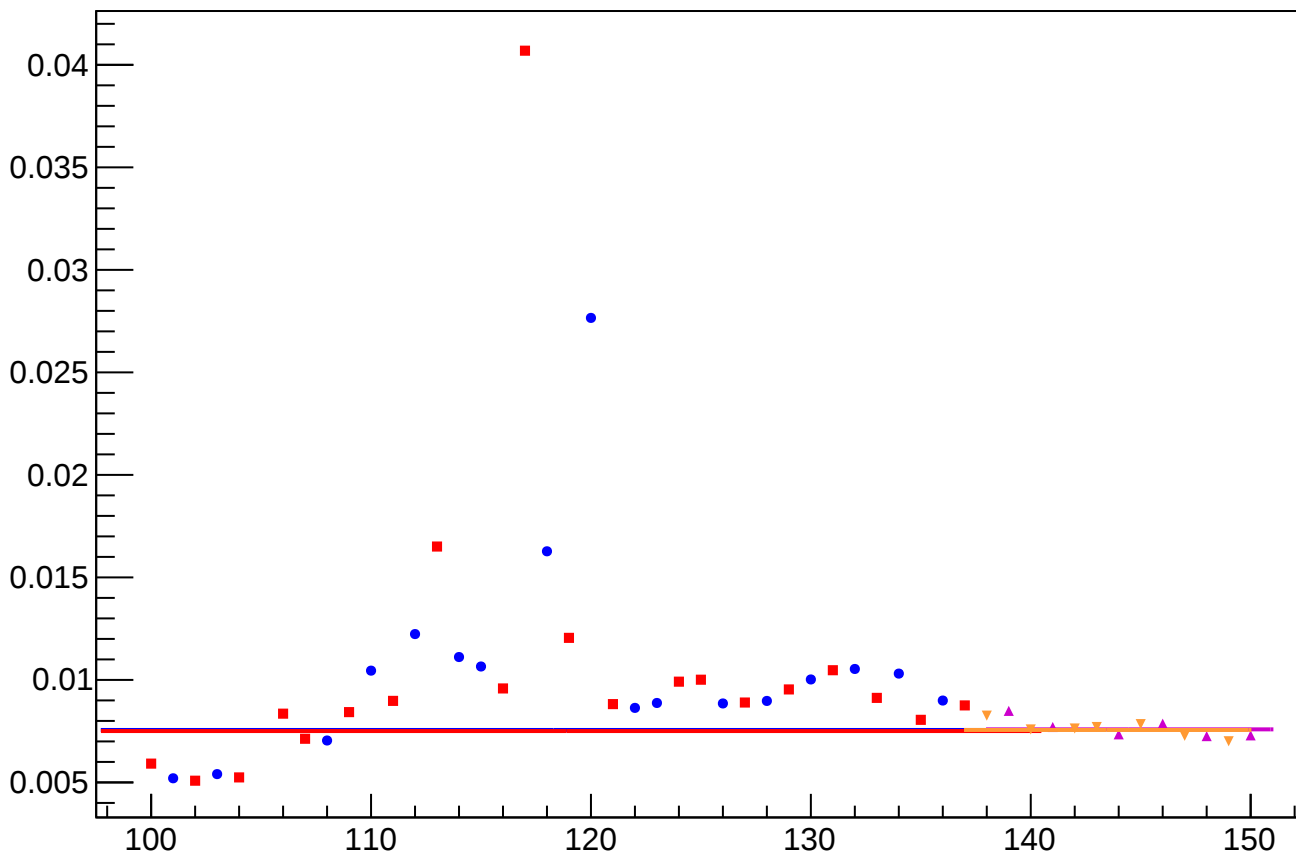
Right Out: -2.272+/-0.000 χ^2 /NDF: 19012236430.2/19

Left In: -1.269+/-0.000 χ^2 /NDF: 4763177773.9/5

-1.818+/-0.000 χ^2 /NDF: 60428588511.2/23

-1.829+/-0.000 χ^2 /NDF: 68007858212.1/25

yield_bpm0i05X_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 22797.6/6

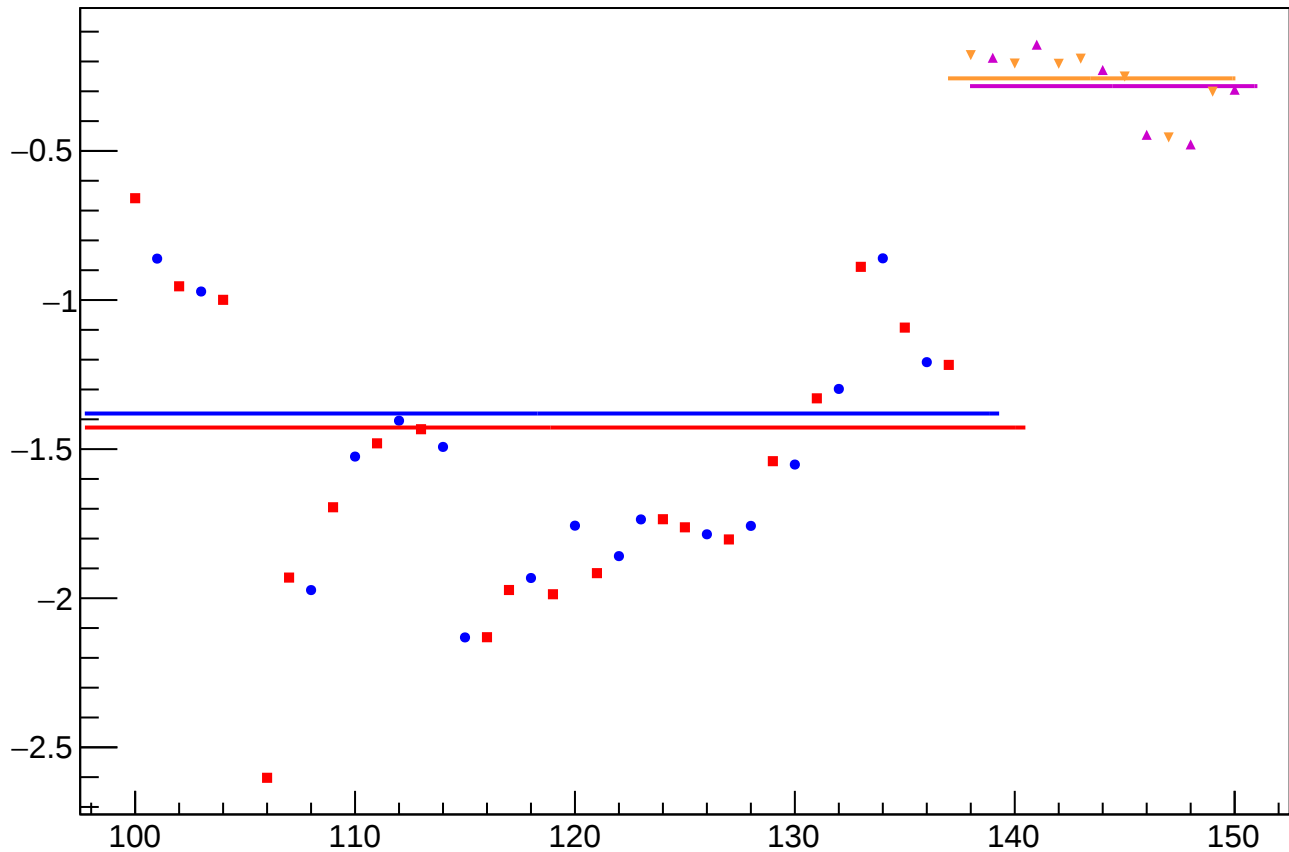
Right Out: 0.008+/-0.000 χ^2/NDF : 984811.6/19

Left In: 0.008+/-0.000 χ^2/NDF : 23949.8/5

0.008+/-0.000 χ^2/NDF : 1243801.6/23

0.008+/-0.000 χ^2/NDF : 1009355.3/25

yield_bpm0i05Y_mean vs Slug



Right In: -1.381 ± 0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.257 ± 0.000 χ^2/NDF : 2123154834.9/6

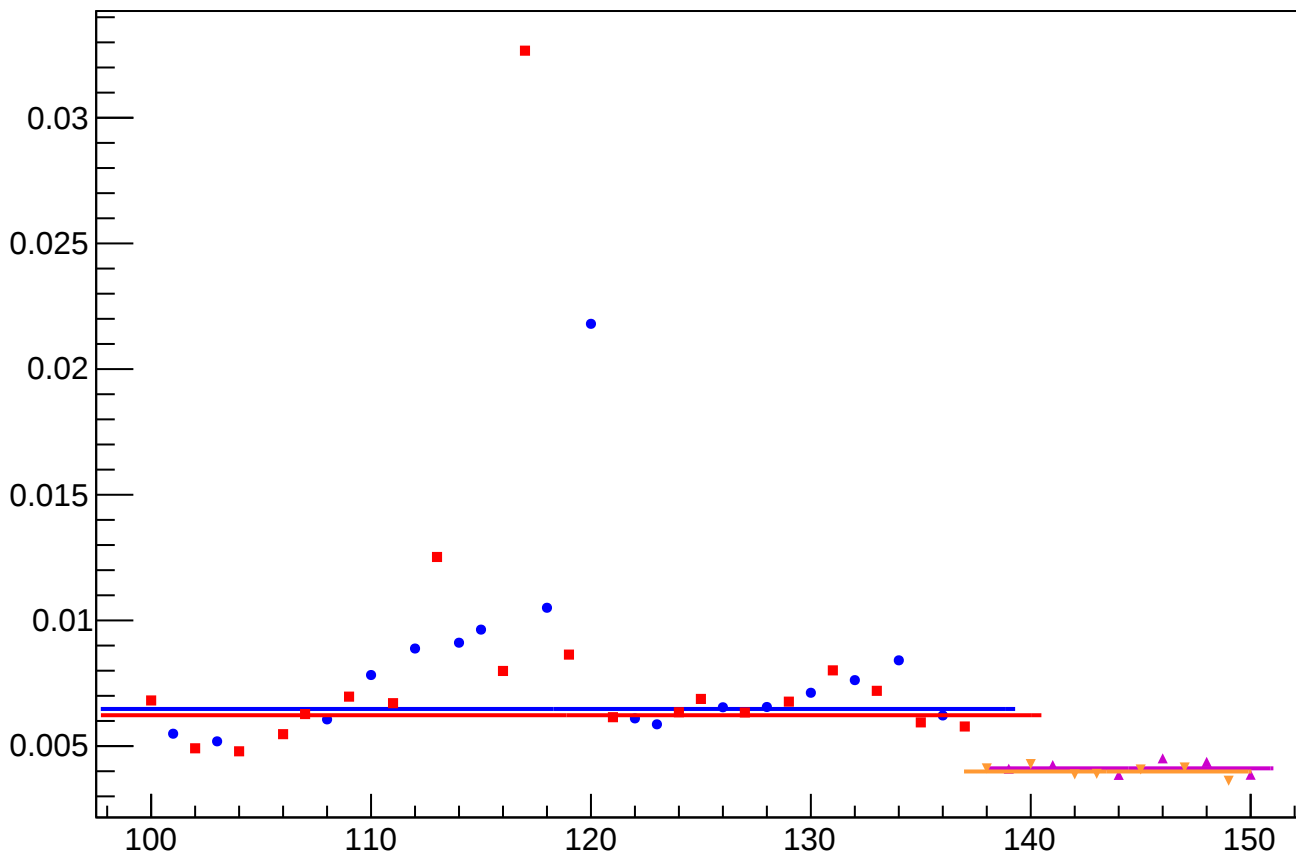
-0.614 ± 0.000 χ^2/NDF : 134004100092.8/23

Right Out: -1.428 ± 0.000 χ^2/NDF : 29626603581.6/19

-0.710 ± 0.000 χ^2/NDF : 157961566213.9/25

Left In: -0.283 ± 0.000 χ^2/NDF : 3557997965.9/5

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 :26229.3/6

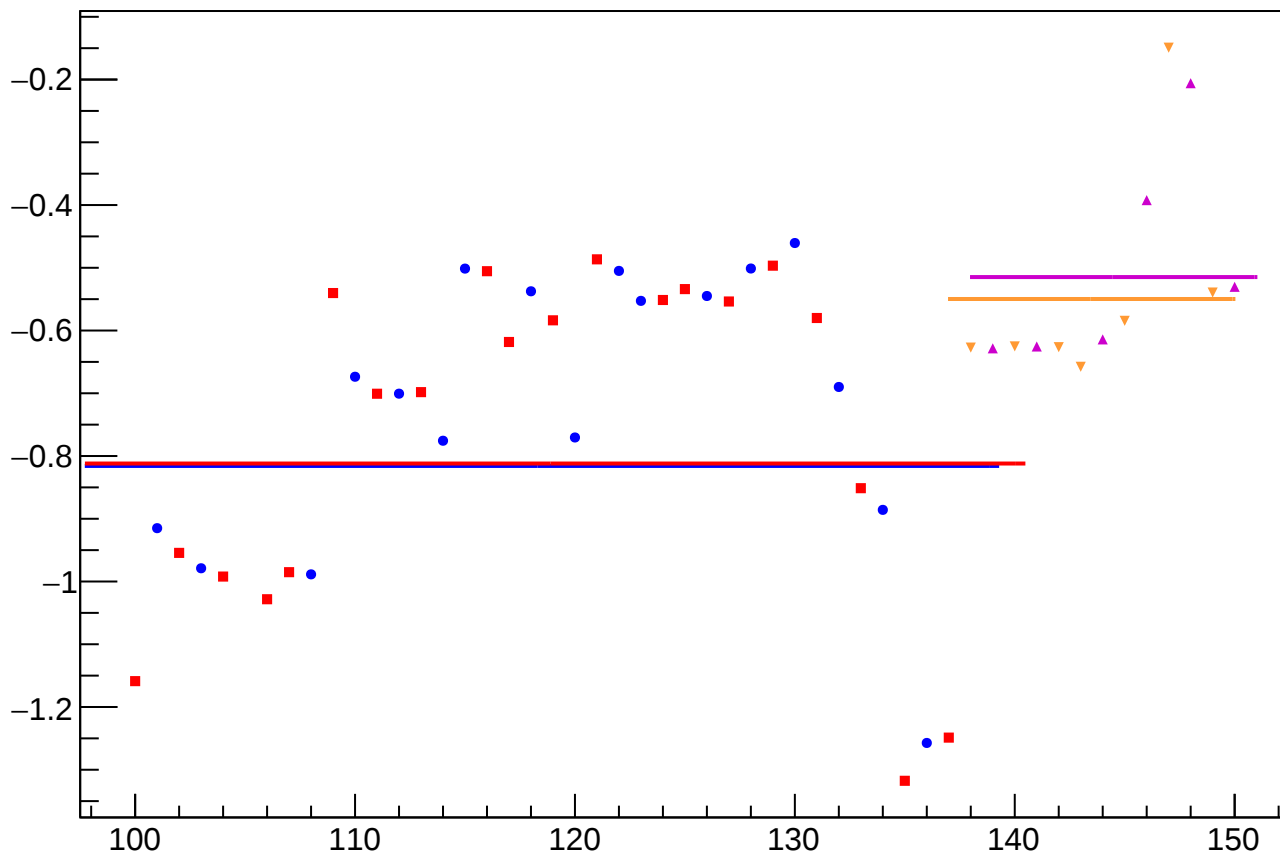
Right Out: 0.006+/-0.000 χ^2/NDF : 472534.6/19

Left In: 0.004+/-0.000 χ^2/NDF :30354.2/5

0.005+/-0.000 χ^2/NDF : 1695171.5/23

0.005+/-0.000 χ^2/NDF : 1352994.2/25

yield_bpm0i07X_mean vs Slug



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.550+/-0.000 χ^2/NDF : 3823891387.4/6

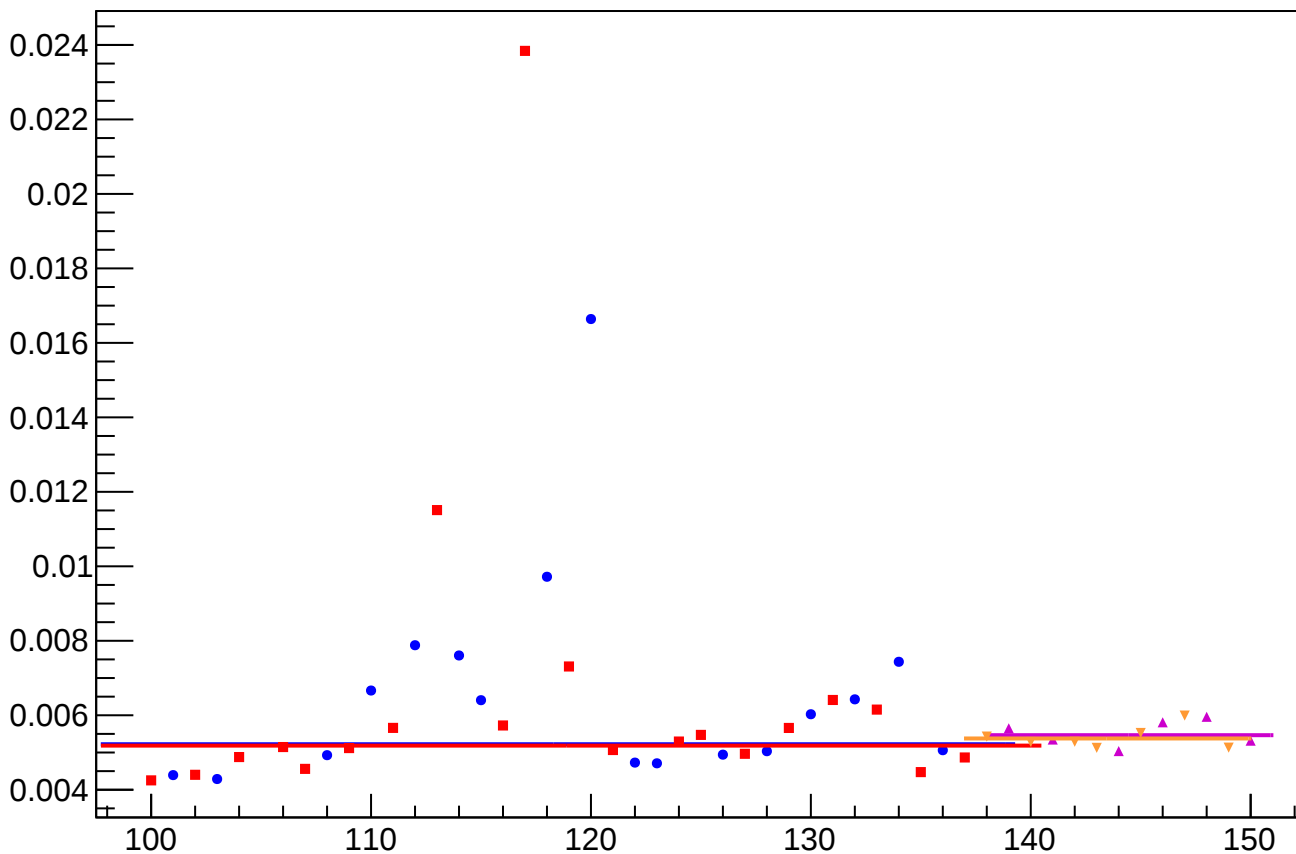
Right Out: -0.812+/-0.000 χ^2/NDF : 16818378599.3/19

Left In: -0.515+/-0.000 χ^2/NDF : 3230304315.7/5

-0.698+/-0.000 χ^2/NDF : 24155246177.4/23

-0.692+/-0.000 χ^2/NDF : 27953839277.6/25

yield_bpm0i07X_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.005+/-0.000 χ^2/NDF :23013.8/6

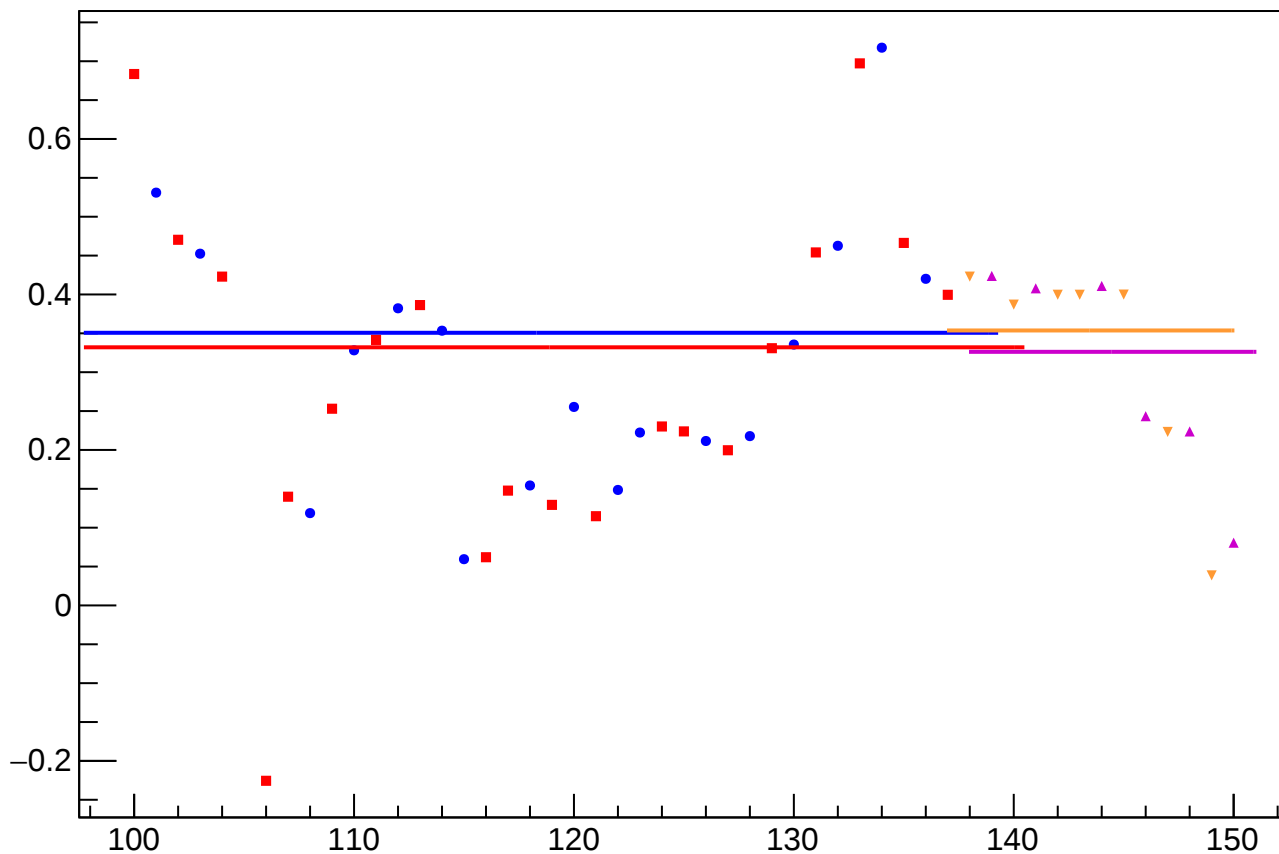
Right Out: 0.005+/-0.000 χ^2/NDF : 410640.5/19

Left In: 0.005+/-0.000 χ^2/NDF :30231.4/5

0.005+/-0.000 χ^2/NDF : 691601.2/23

0.005+/-0.000 χ^2/NDF : 454893.3/25

yield_bpm0i07Y_mean vs Slug



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.354+/-0.000 χ^2/NDF :3459000905.4/6

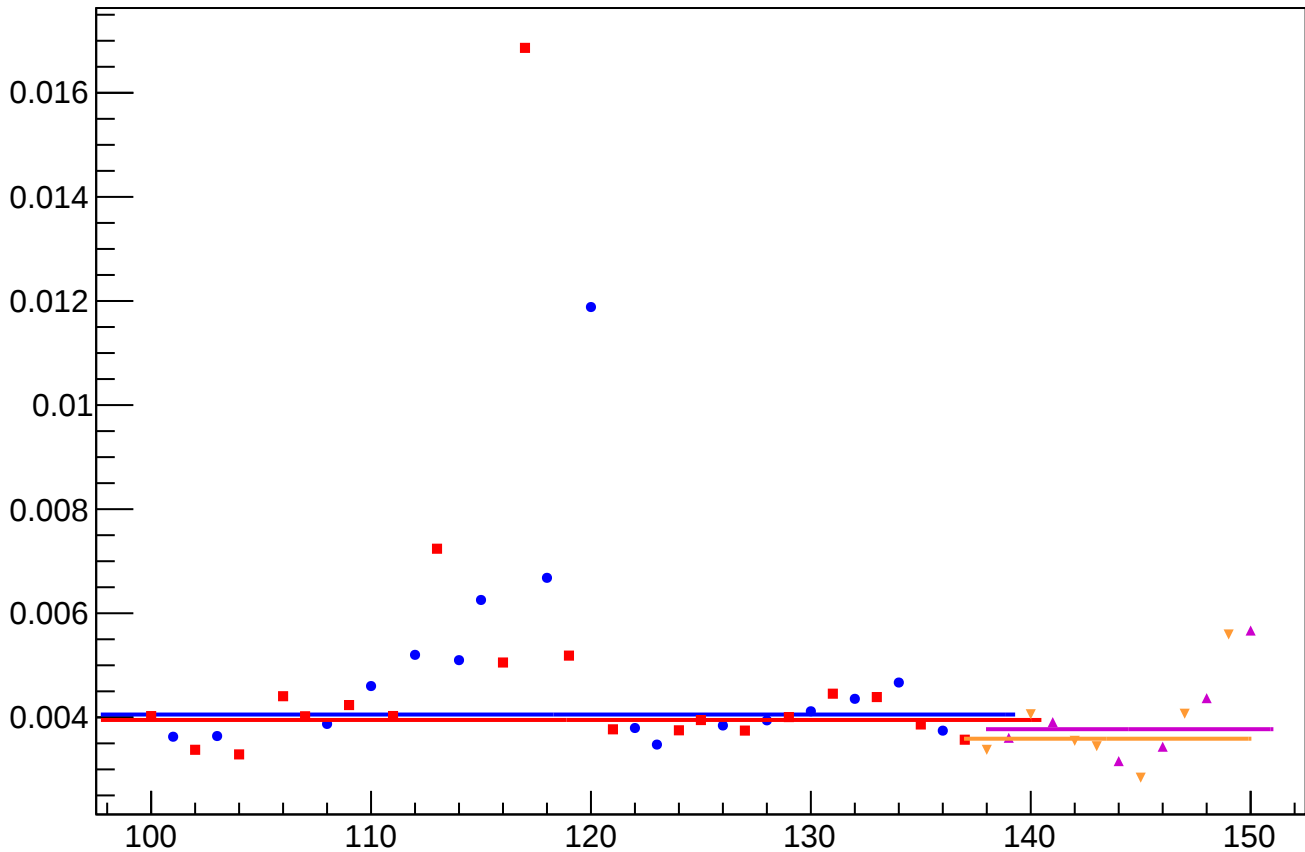
Right Out: 0.332+/-0.000 χ^2/NDF : 11800695210.2/19

Left In: 0.326+/-0.000 χ^2/NDF :3421784839.5/5

0.352+/-0.000 χ^2/NDF : 10871312487.2/23

0.330+/-0.000 χ^2/NDF : 15228015923.2/25

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 :310555.6/6

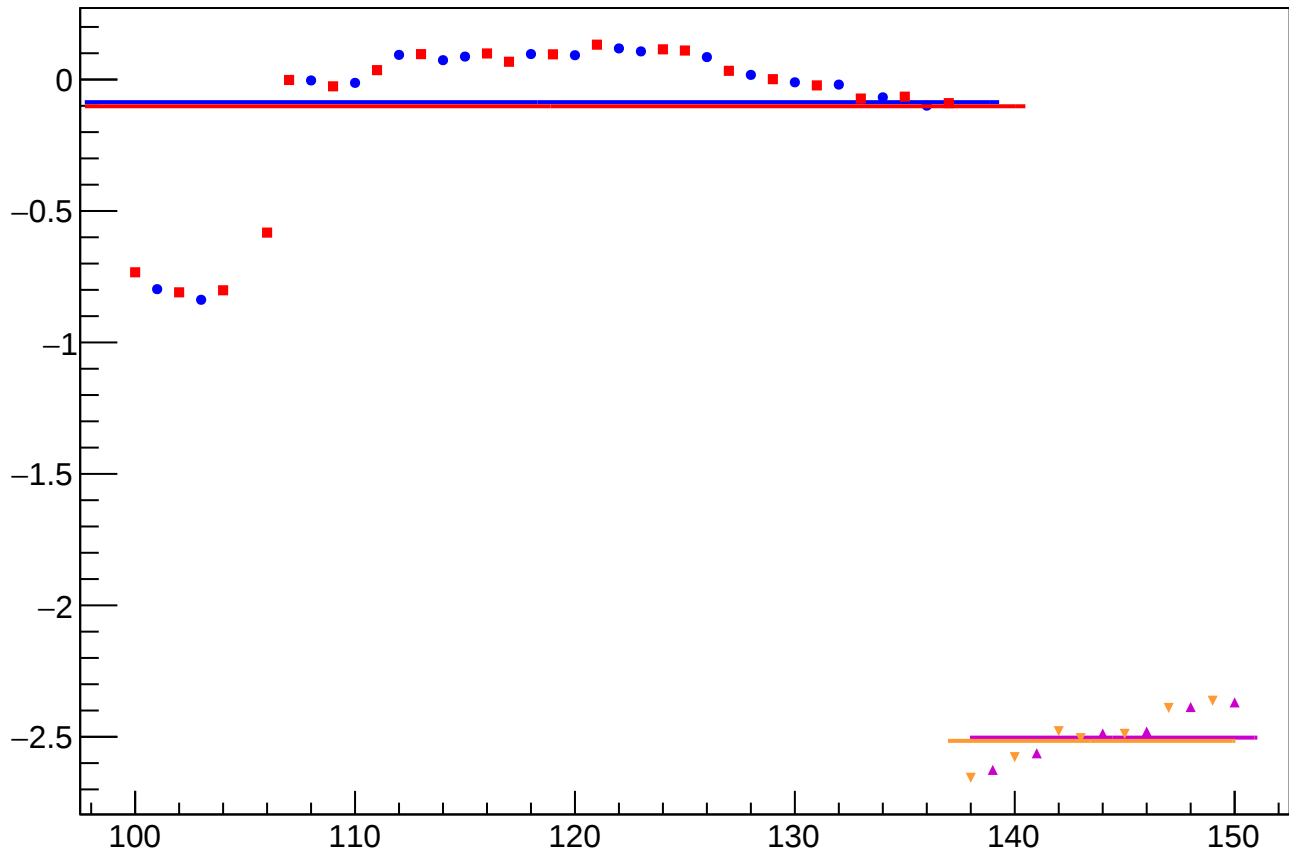
Right Out: 0.004+/-0.000 χ^2/NDF : 304954.7/19

Left In: 0.004+/-0.000 χ^2/NDF :267240.7/5

0.004+/-0.000 χ^2/NDF : 836366.8/23

0.004+/-0.000 χ^2/NDF : 582478.3/25

yield_bpm1i02X_mean vs Slug



Right In: -0.086 ± 0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.515 ± 0.000 χ^2/NDF : 196095441.2/6

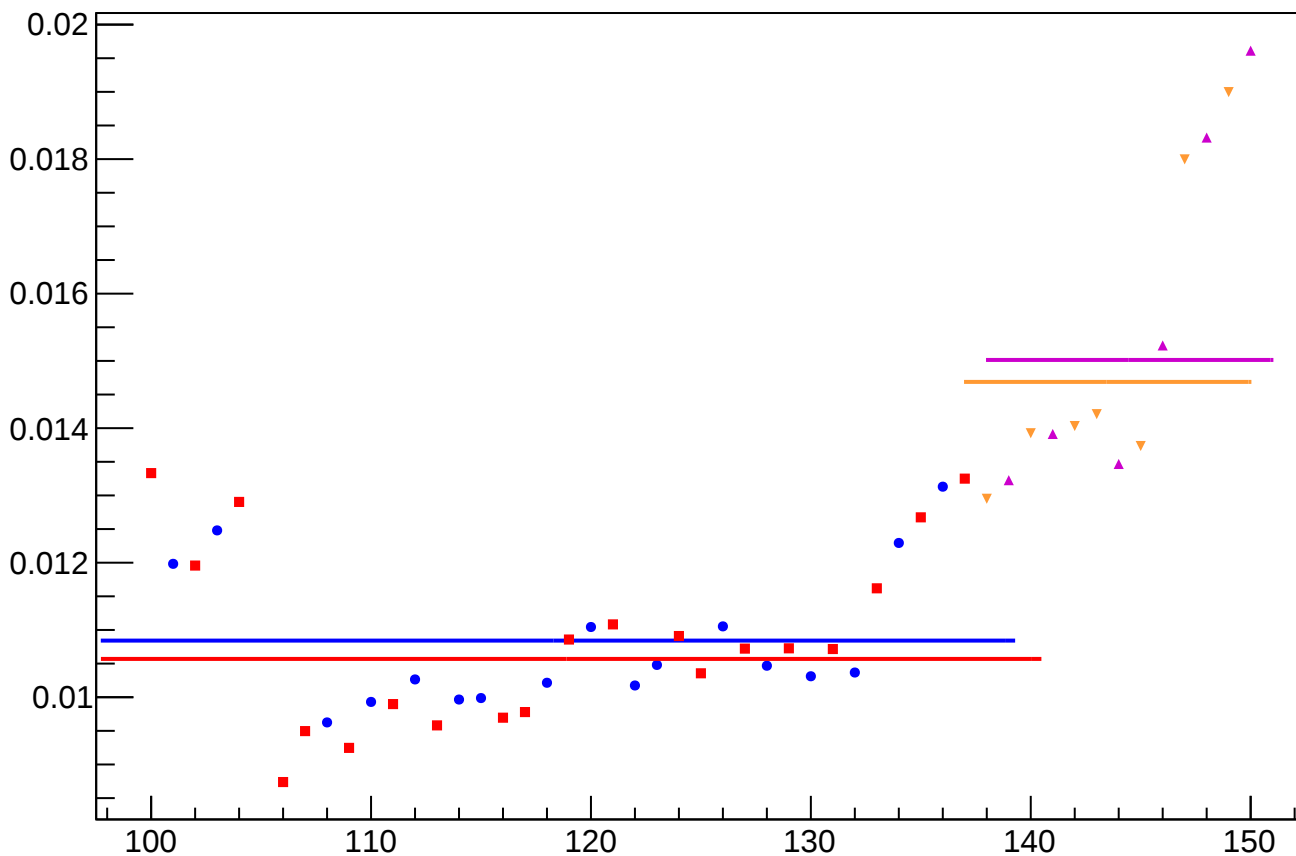
-0.778 ± 0.000 χ^2/NDF : 100125731867.7/23

Right Out: -0.102 ± 0.000 χ^2/NDF : 5566142794.2/19

-0.702 ± 0.000 χ^2/NDF : 96706269823.8/25

Left In: -2.503 ± 0.000 χ^2/NDF : 149502329.4/5

yield_bpm1i02X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.015+/-0.000 χ^2/NDF :176182.4/6

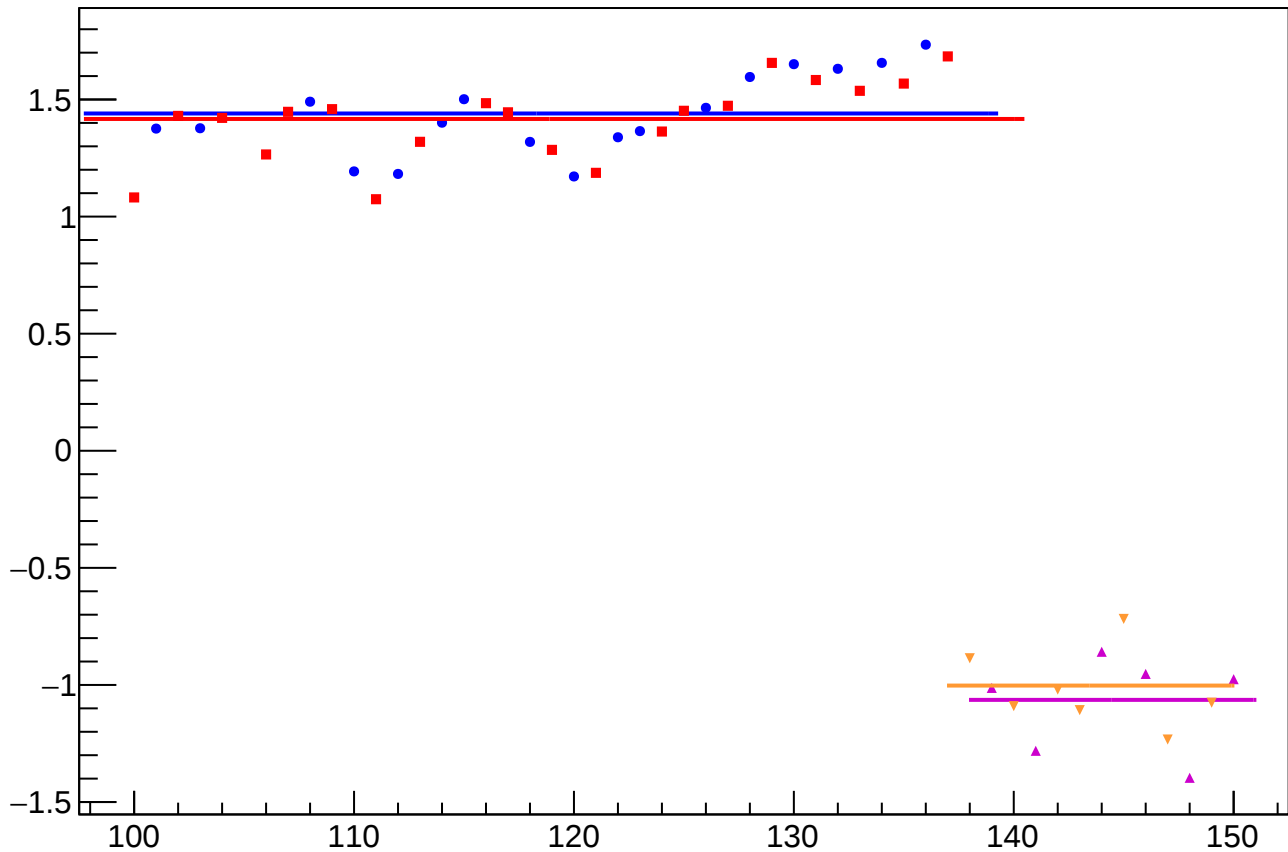
Right Out: 0.011+/-0.000 χ^2/NDF : 179537.7/19

Left In: 0.015+/-0.000 χ^2/NDF :205133.0/5

0.012+/-0.000 χ^2/NDF : 776376.0/23

0.012+/-0.000 χ^2/NDF : 1008160.3/25

yield_bpm1i02Y_mean vs Slug



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -1.003 $\pm$ 0.000 χ^2 /NDF: 1103112748.0/6

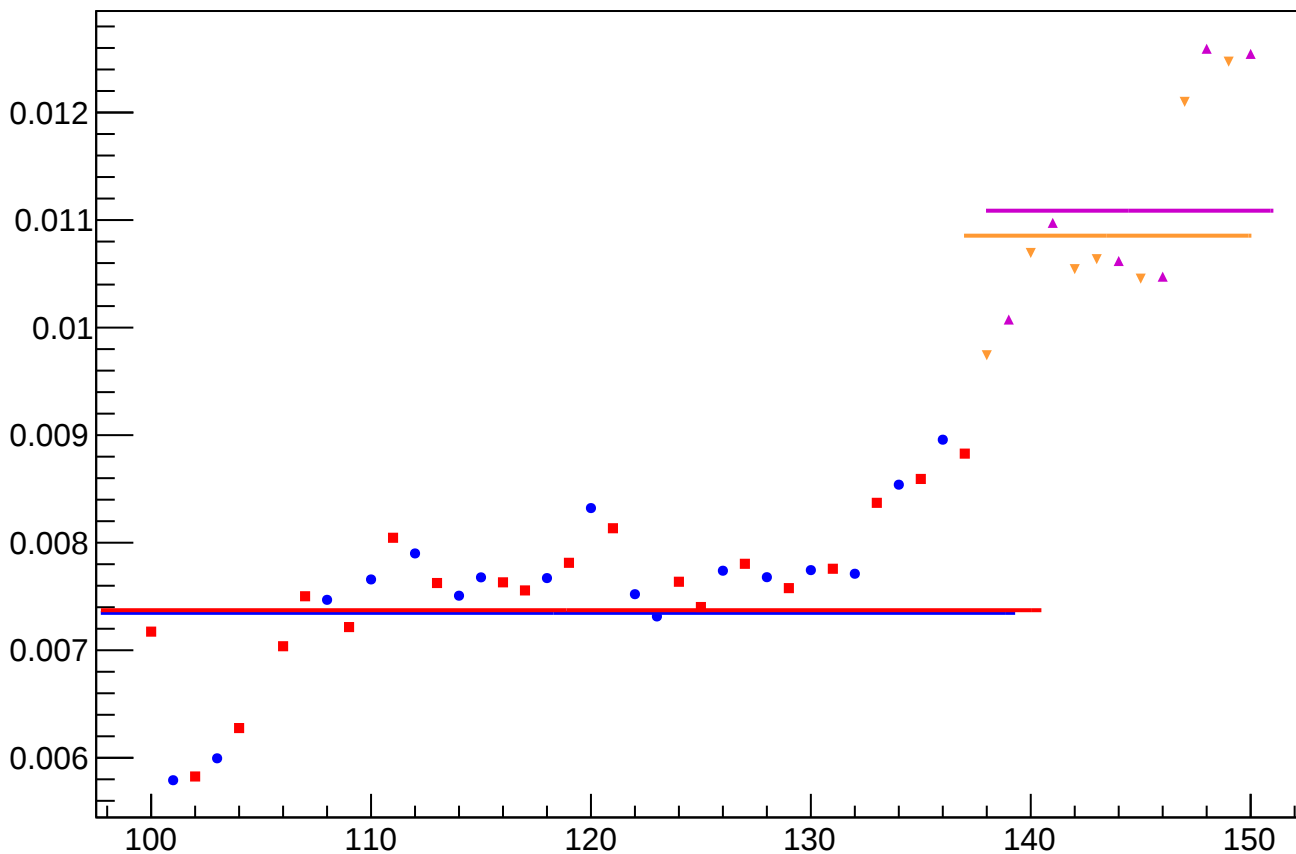
0.816 $\pm$ 0.000 χ^2 /NDF: 190574296567.9/23

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674679406.4/19

0.842 $\pm$ 0.000 χ^2 /NDF: 189226341359.1/25

Left In: -1.064 $\pm$ 0.000 χ^2 /NDF: 1361889224.8/5

yield_bpm1i02Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.011+/-0.000 χ^2/NDF : 66445.0/6

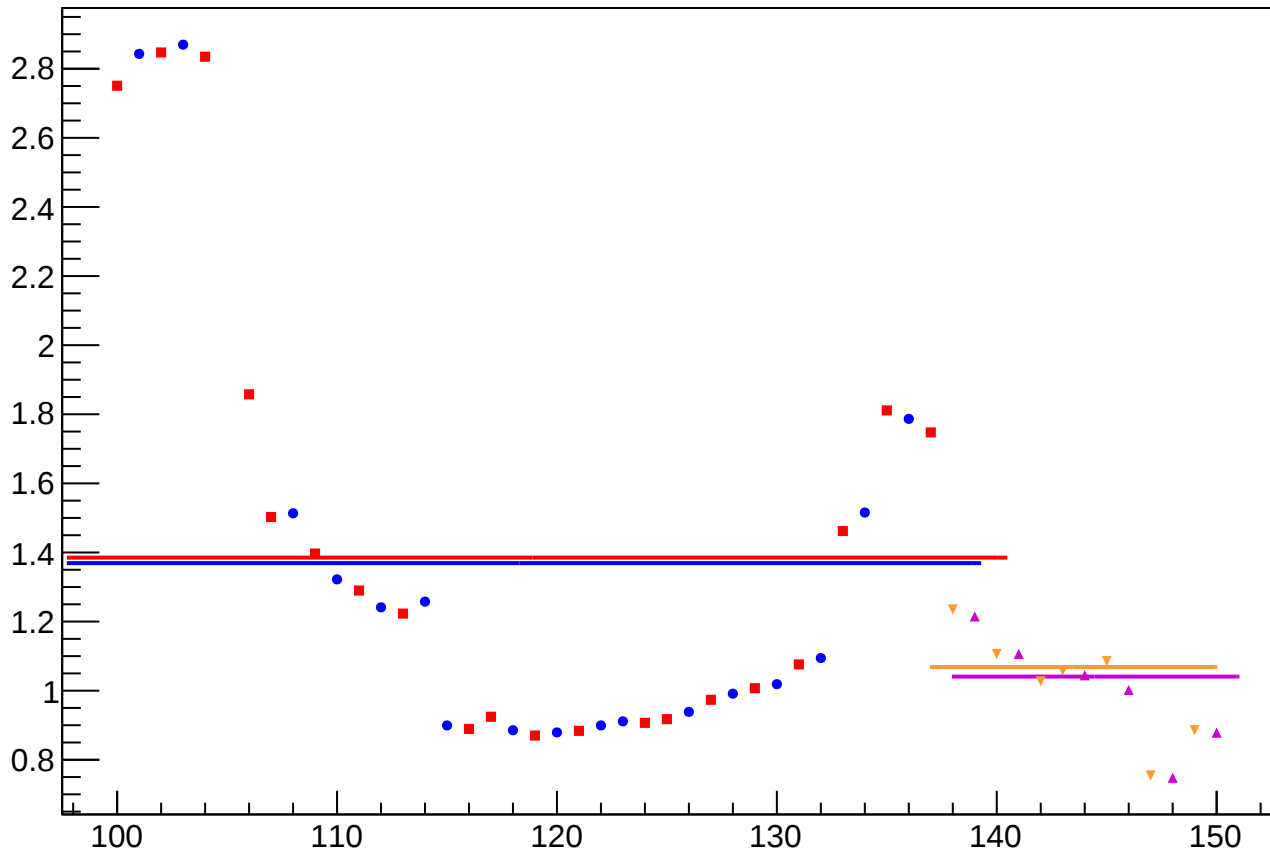
Right Out: 0.007+/-0.000 χ^2/NDF : 172741.0/19

Left In: 0.011+/-0.000 χ^2/NDF : 69022.1/5

0.008+/-0.000 χ^2/NDF : 1061327.0/23

0.008+/-0.000 χ^2/NDF : 1072329.1/25

yield_bpm1i04X_mean vs Slug



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.068+/-0.000 χ^2/NDF : 1052102077.3/6

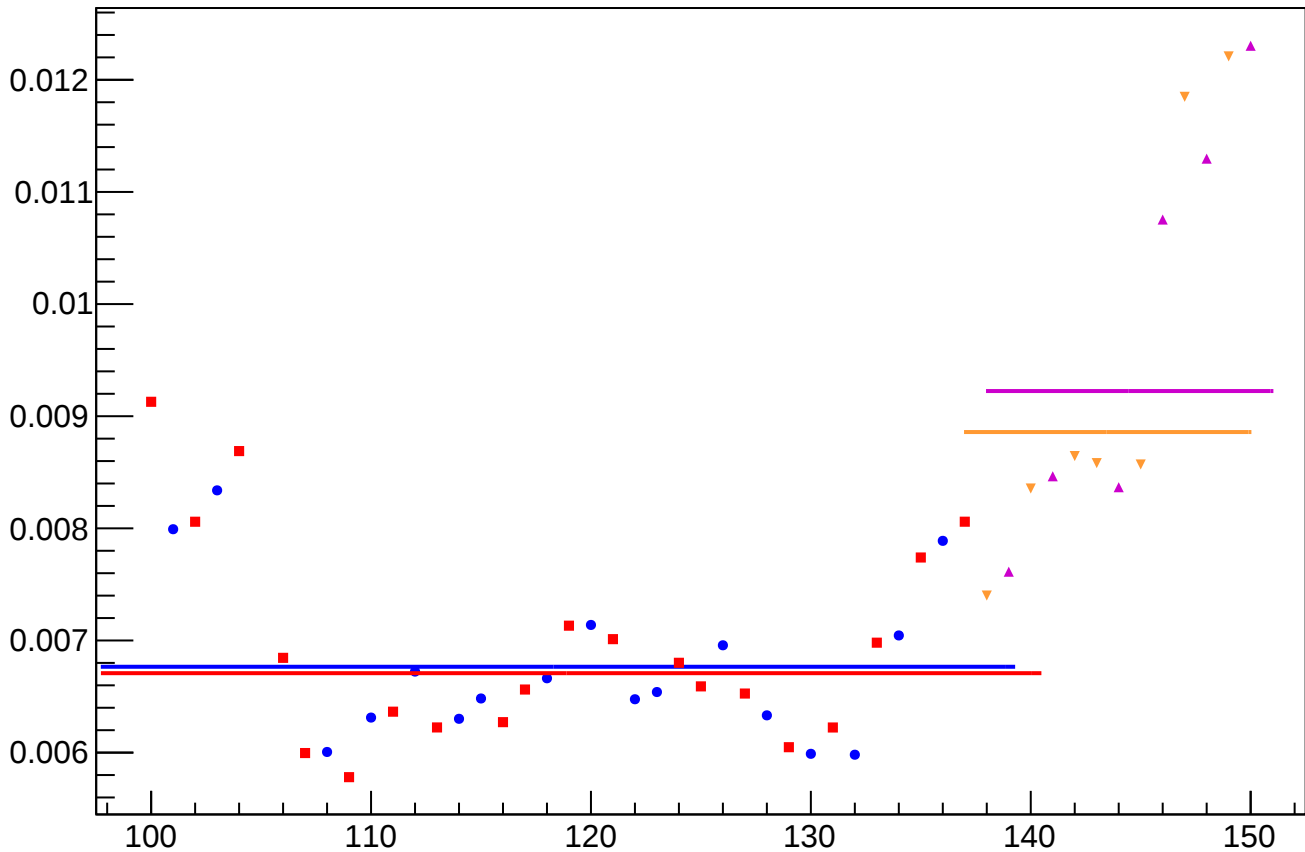
1.282+/-0.000 χ^2/NDF : 59029476283.4/23

Right Out: 1.385+/-0.000 χ^2/NDF : 50114562617.6/19

1.298+/-0.000 χ^2/NDF : 55843478747.1/25

Left In: 1.041+/-0.000 χ^2/NDF : 1063244071.6/5

yield_bpm1i04X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 264958.9/6

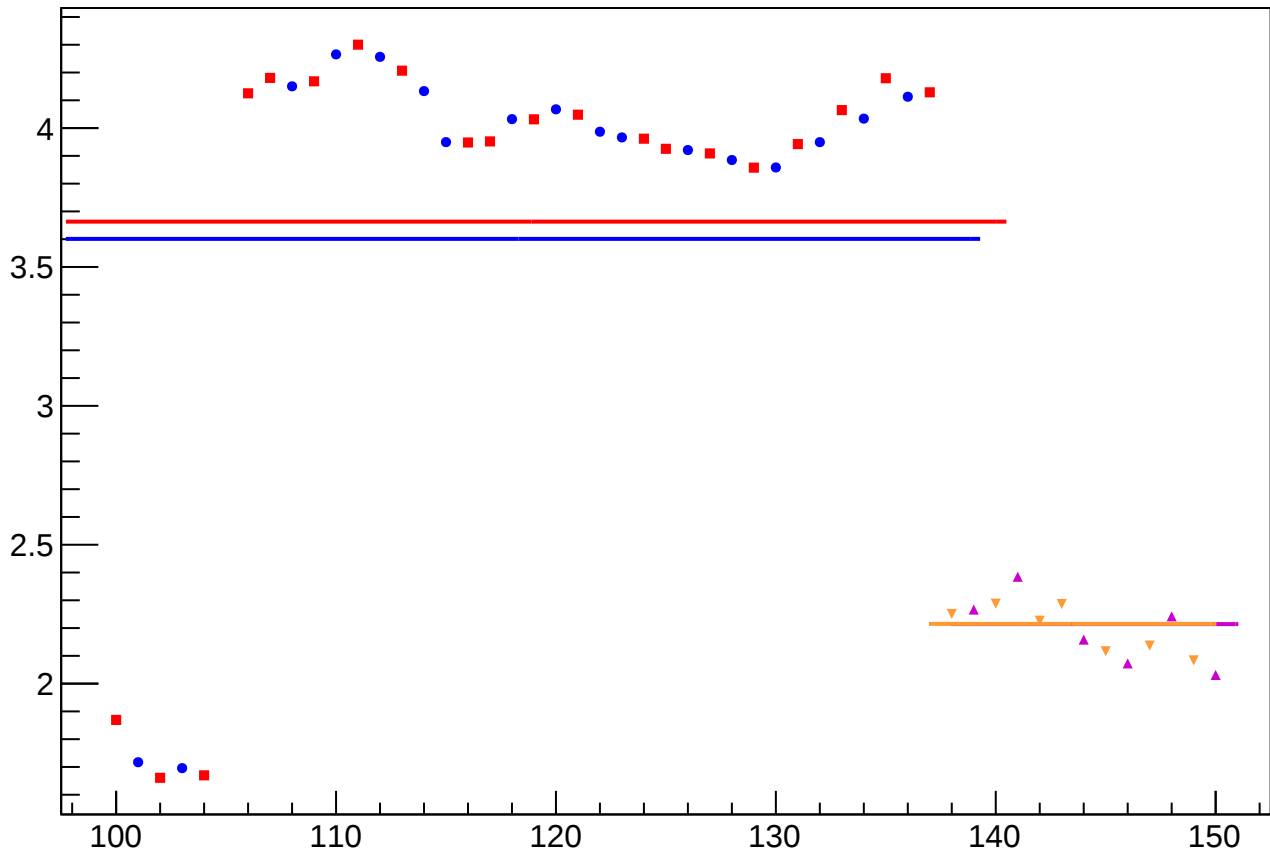
Right Out: 0.007+/-0.000 χ^2/NDF : 187869.7/19

Left In: 0.009+/-0.000 χ^2/NDF : 271588.6/5

0.007+/-0.000 χ^2/NDF : 789849.6/23

0.007+/-0.000 χ^2/NDF : 957997.8/25

yield_bpm1i04Y_mean vs Slug



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 2.215+/-0.000 χ^2/NDF : 435224578.5/6

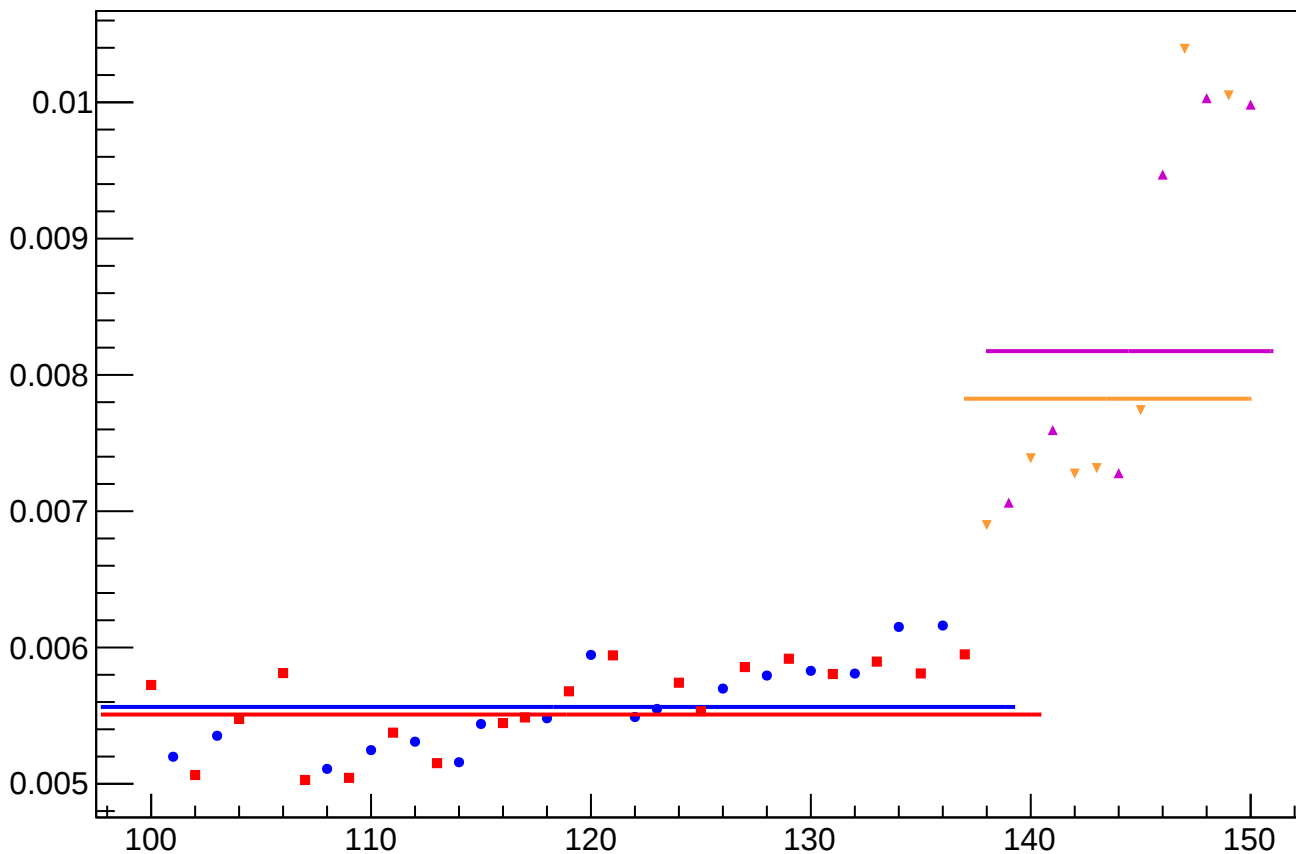
3.244+/-0.000 χ^2/NDF : 293148693329.9/23

Right Out: 3.663+/-0.000 χ^2/NDF : 192640409625.9/19

3.339+/-0.000 χ^2/NDF : 302051593533.8/25

Left In: 2.214+/-0.000 χ^2/NDF : 931507569.8/5

yield_bpm1i04Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.008+/-0.000 χ^2/NDF :196680.6/6

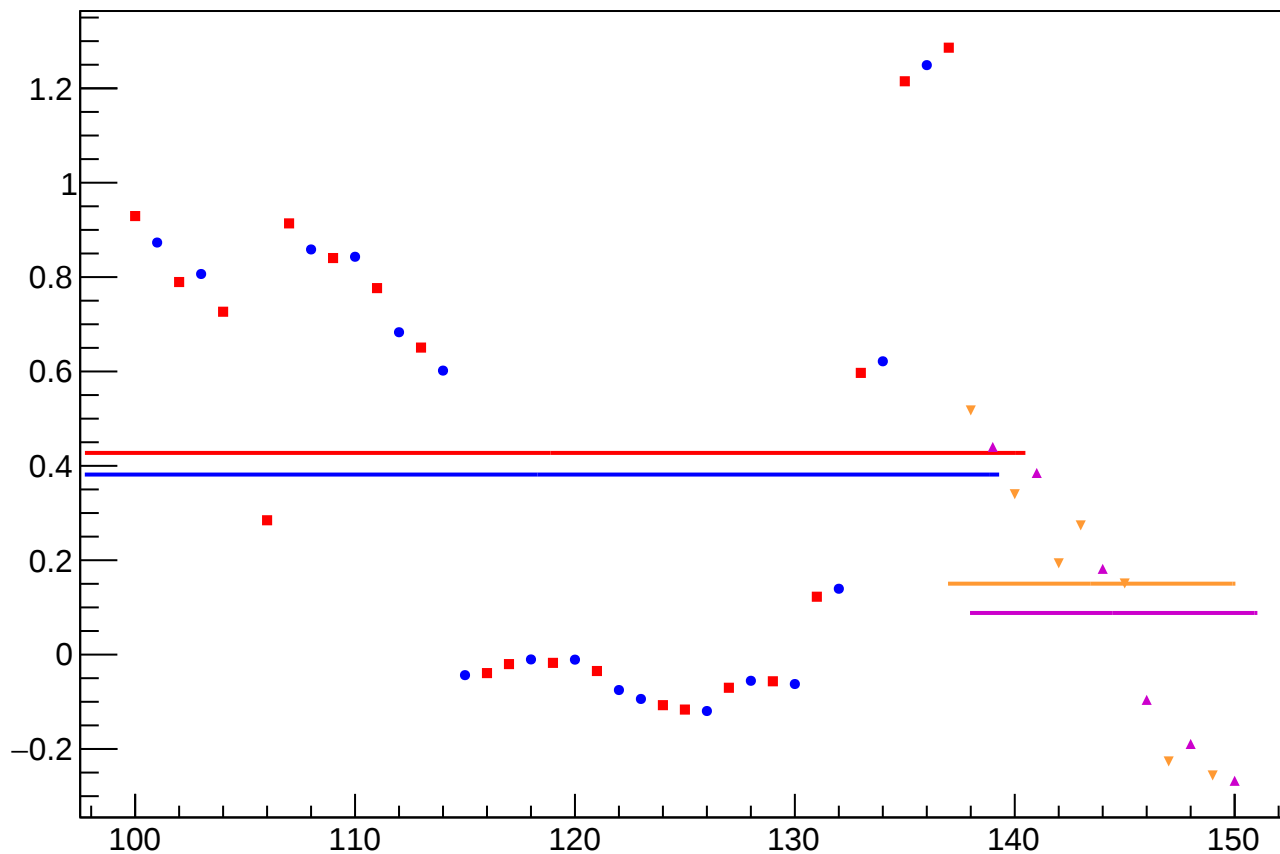
Right Out: 0.006+/-0.000 χ^2/NDF : 52636.1/19

Left In: 0.008+/-0.000 χ^2/NDF :195657.1/5

0.006+/-0.000 χ^2/NDF : 813381.3/23

0.006+/-0.000 χ^2/NDF : 982943.9/25

yield_bpm1i06X_mean vs Slug



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 0.150 $\pm$ 0.000 χ^2 /NDF:1336307522.0/6

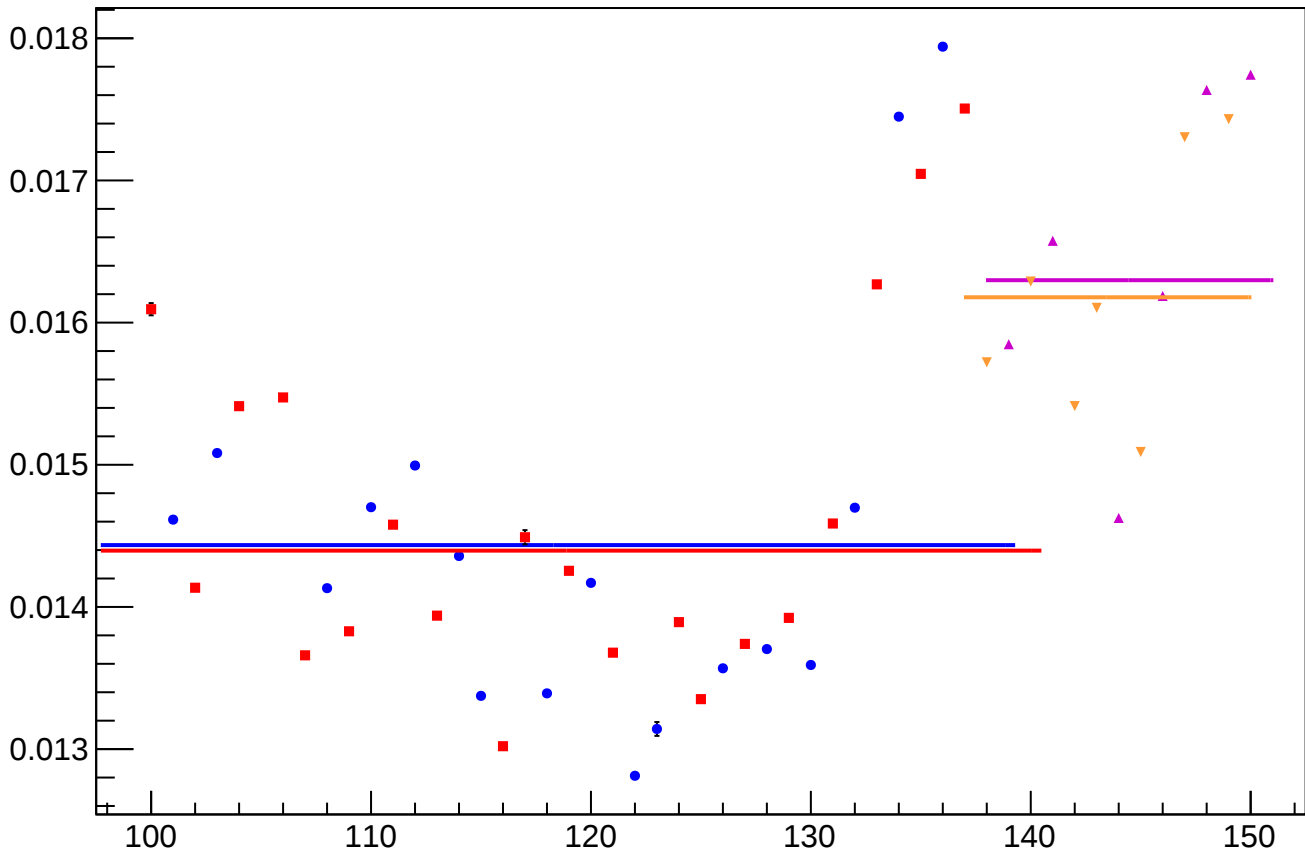
Right Out: 0.427 $\pm$ 0.000 χ^2 /NDF: 6716521382.4/19

Left In: 0.088 $\pm$ 0.000 χ^2 /NDF:1278803256.8/5

0.296 $\pm$ 0.000 χ^2 /NDF: 9090428017.4/23

0.309 $\pm$ 0.000 χ^2 /NDF: 9345032209.1/25

yield_bpm1i06X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.016+/-0.000 χ^2/NDF : 25914.5/6

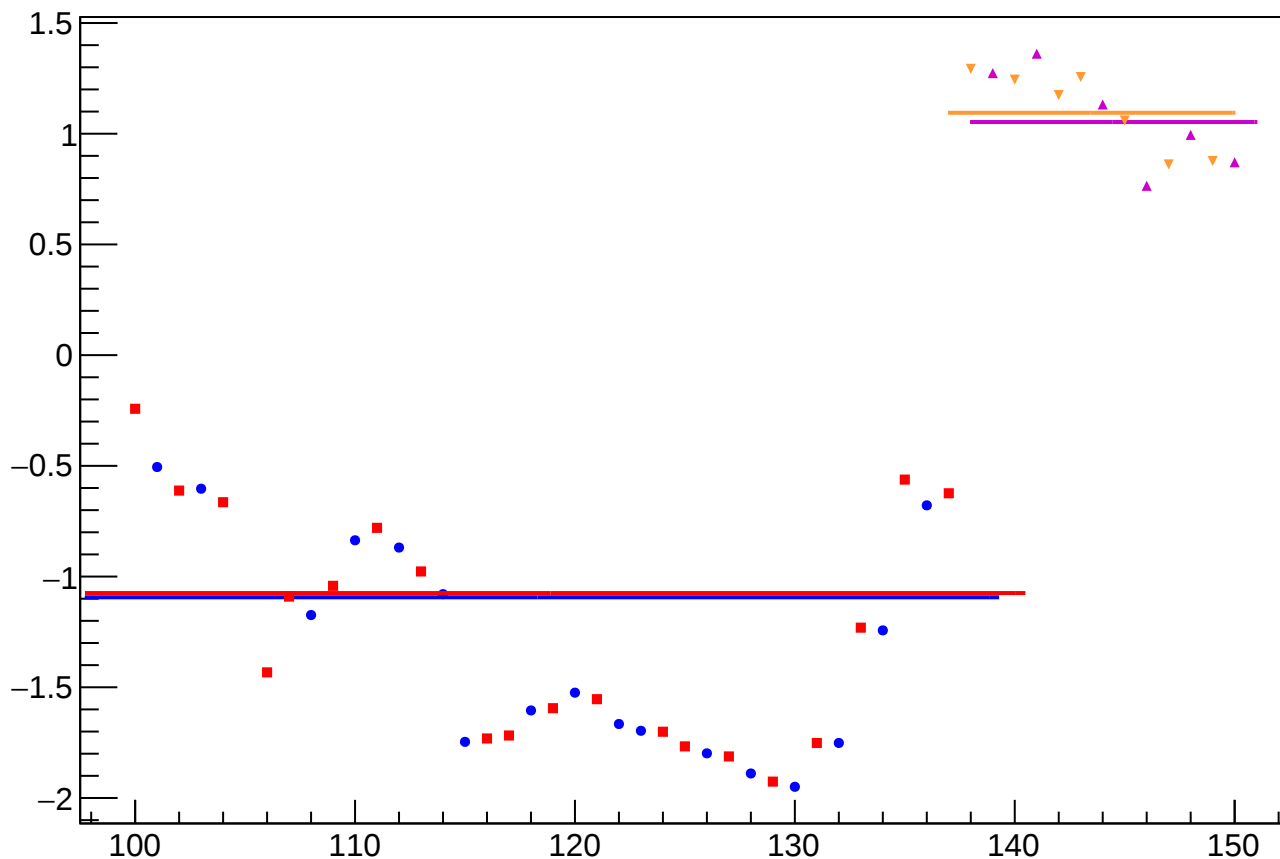
Right Out: 0.014+/-0.000 χ^2/NDF : 74535.1/19

Left In: 0.016+/-0.000 χ^2/NDF : 44301.9/5

0.015+/-0.000 χ^2/NDF : 207684.9/23

0.015+/-0.000 χ^2/NDF : 203743.7/25

yield_bpm1i06Y_mean vs Slug



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 1.095+/-0.000 χ^2/NDF : 9583241900.1/6

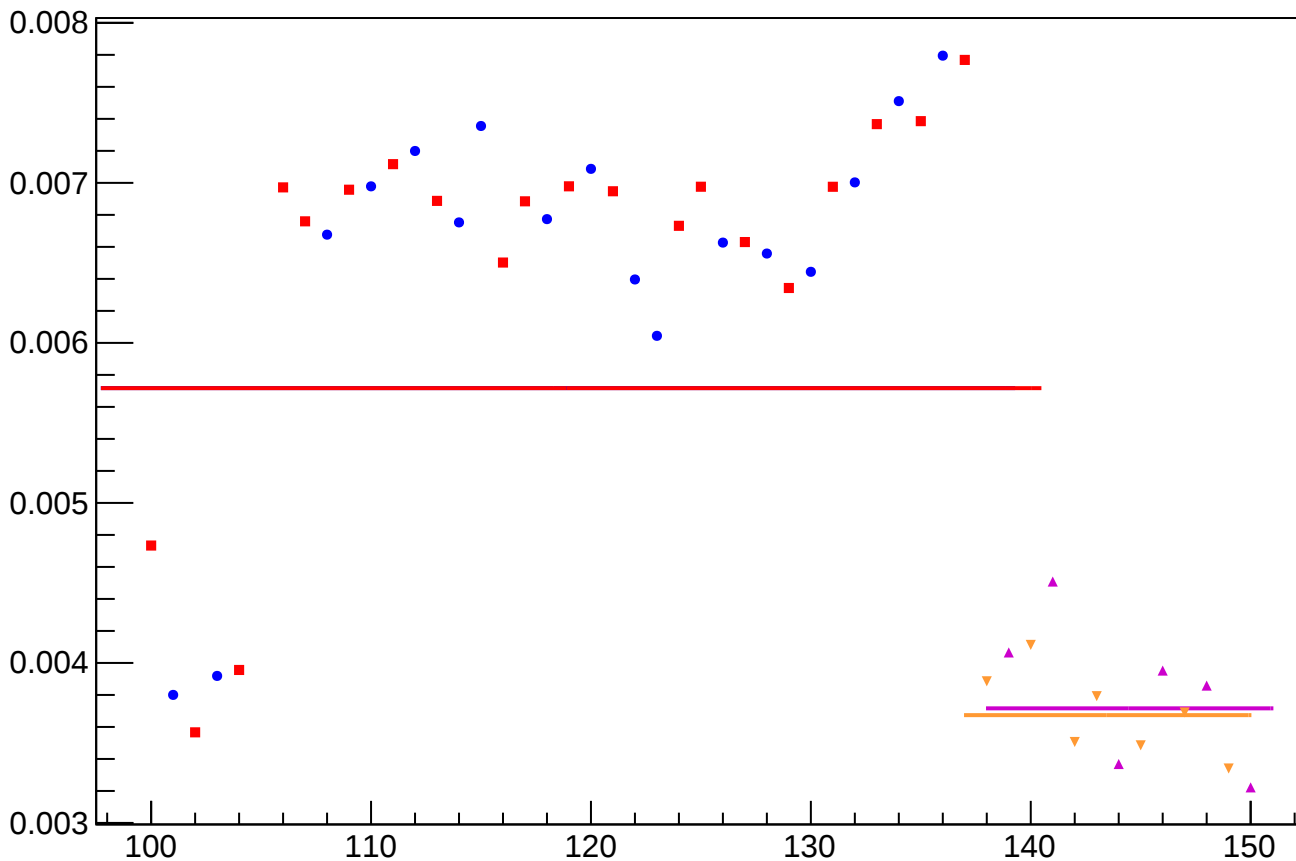
Right Out: -1.074+/-0.000 χ^2/NDF : 47208439320.8/19

Left In: 1.053+/-0.000 χ^2/NDF : 11694290208.0/5

0.313+/-0.000 χ^2/NDF : 624568022604.8/23

0.234+/-0.000 χ^2/NDF : 586739810653.7/25

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 : 41975.7/6

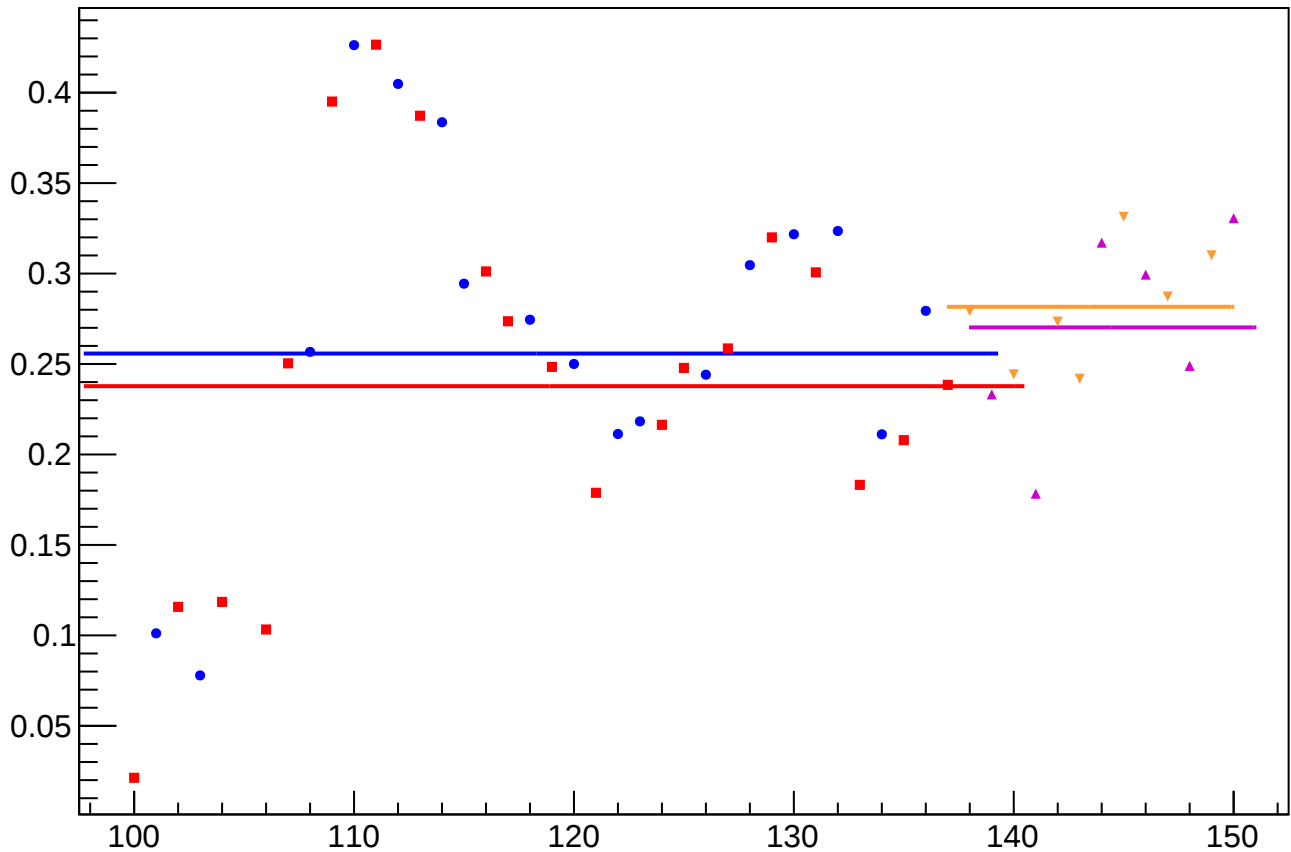
Right Out: 0.006+/-0.000 χ^2/NDF : 925957.4/19

Left In: 0.004+/-0.000 χ^2/NDF : 116605.2/5

0.004+/-0.000 χ^2/NDF : 1854991.6/23

0.004+/-0.000 χ^2/NDF : 1976519.7/25

yield_bpm2i01X_mean vs Slug



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.282+/-0.000 χ^2/NDF :1767809932.1/6

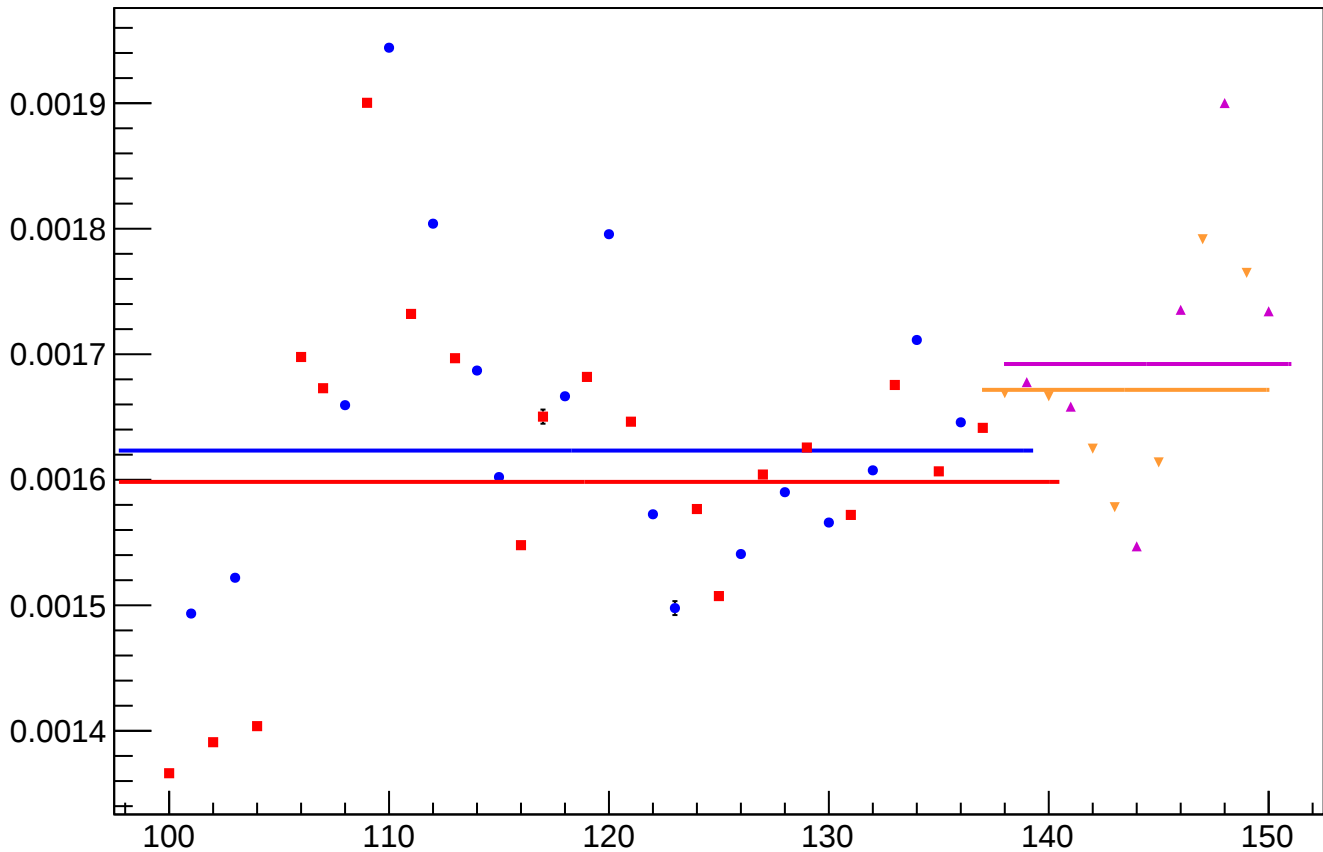
0.267+/-0.000 χ^2/NDF : 23815035527.5/23

Right Out: 0.238+/-0.000 χ^2/NDF : 26077768189.7/19

0.250+/-0.000 χ^2/NDF : 32186104014.1/25

Left In: 0.270+/-0.000 χ^2/NDF :5021246123.7/5

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 :18445.9/6

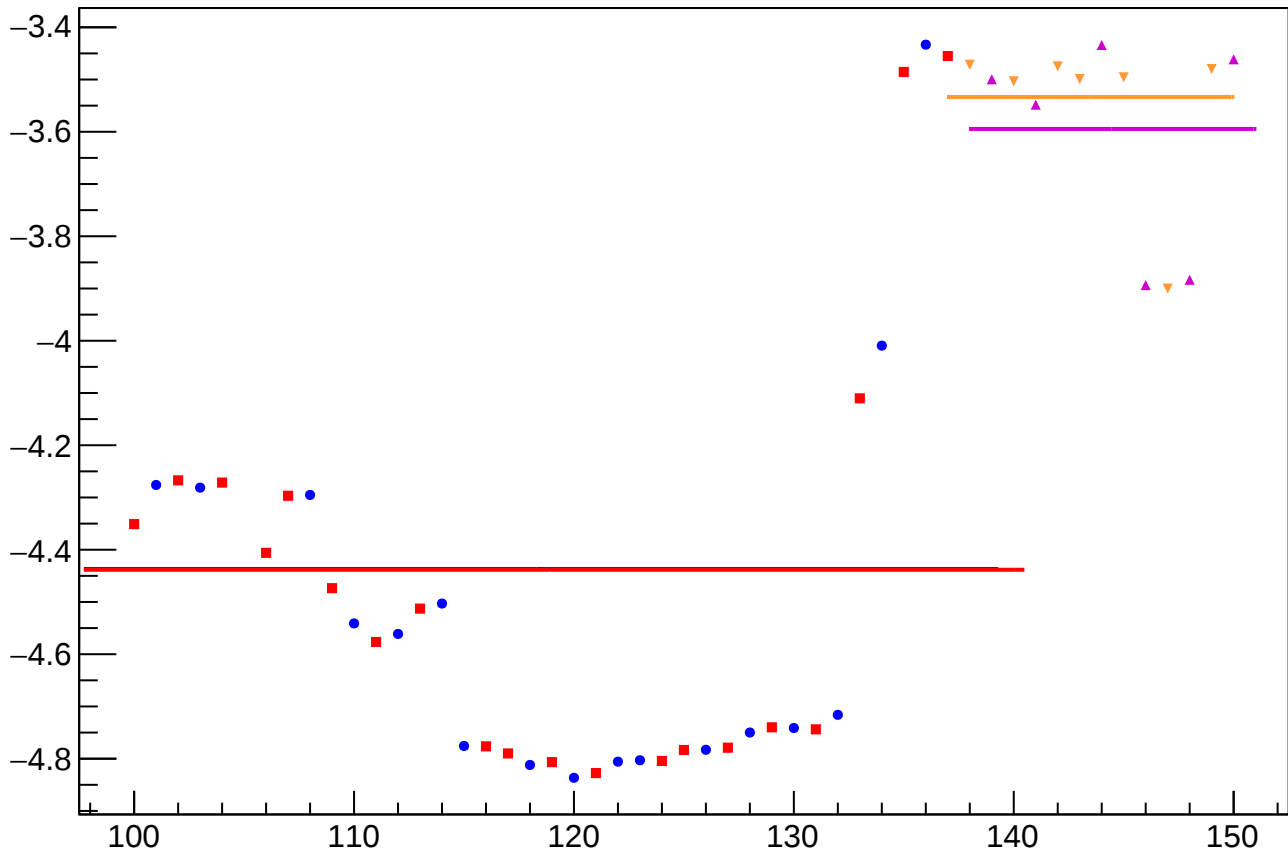
Right Out: 0.002+/-0.000 χ^2/NDF : 90764.4/19

Left In: 0.002+/-0.000 χ^2/NDF :35601.6/5

0.002+/-0.000 χ^2/NDF : 75693.5/23

0.002+/-0.000 χ^2/NDF : 144539.6/25

yield_bpm2i01Y_mean vs Slug



Right In: -4.437+/-0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.533+/-0.000 χ^2/NDF : 20571196667.7/6

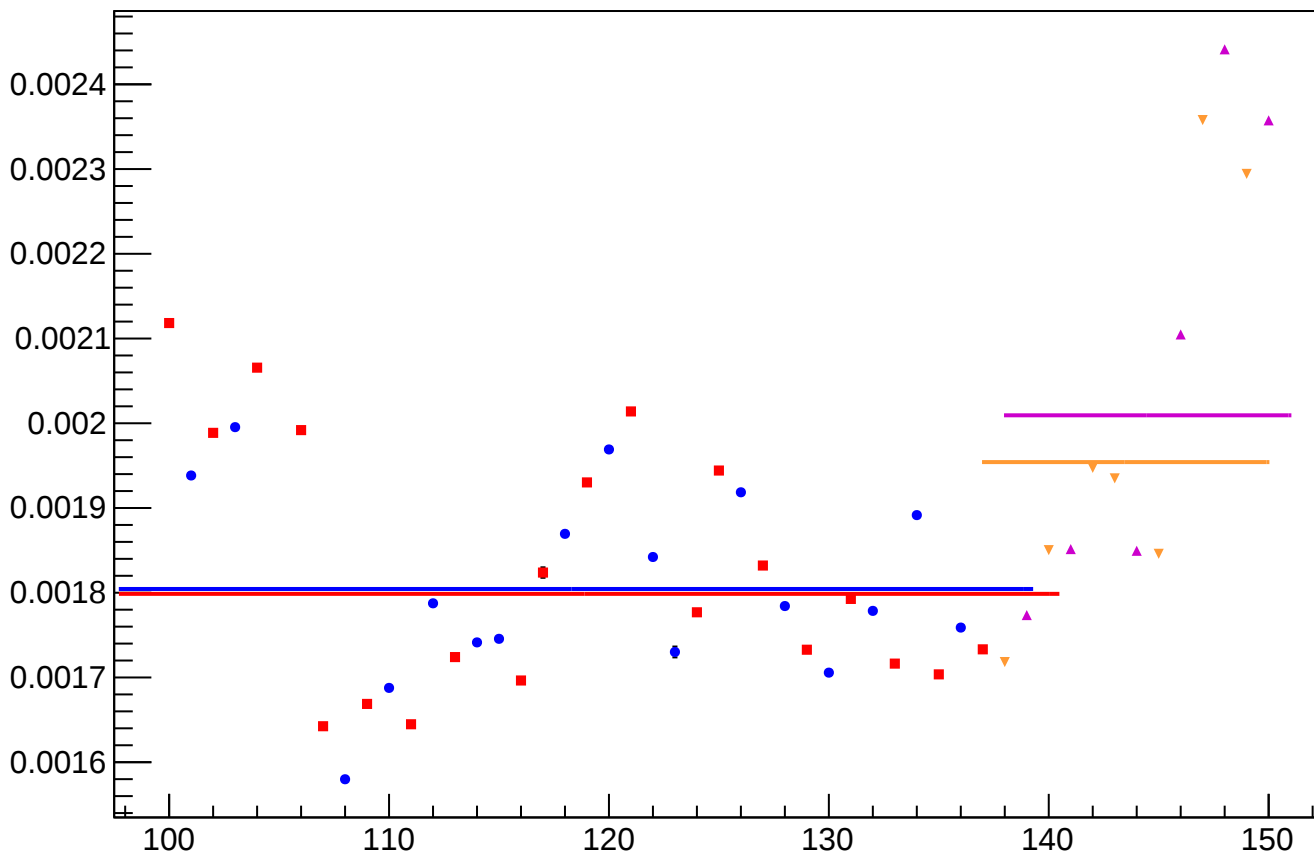
-4.091+/-0.000 χ^2/NDF : 1038060791501.5/23

Right Out: -4.438+/-0.000 χ^2/NDF : 326800745779.7/19

-4.142+/-0.000 χ^2/NDF : 899473592339.3/25

Left In: -3.595+/-0.000 χ^2/NDF : 38143783159.4/5

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 :114918.0/6

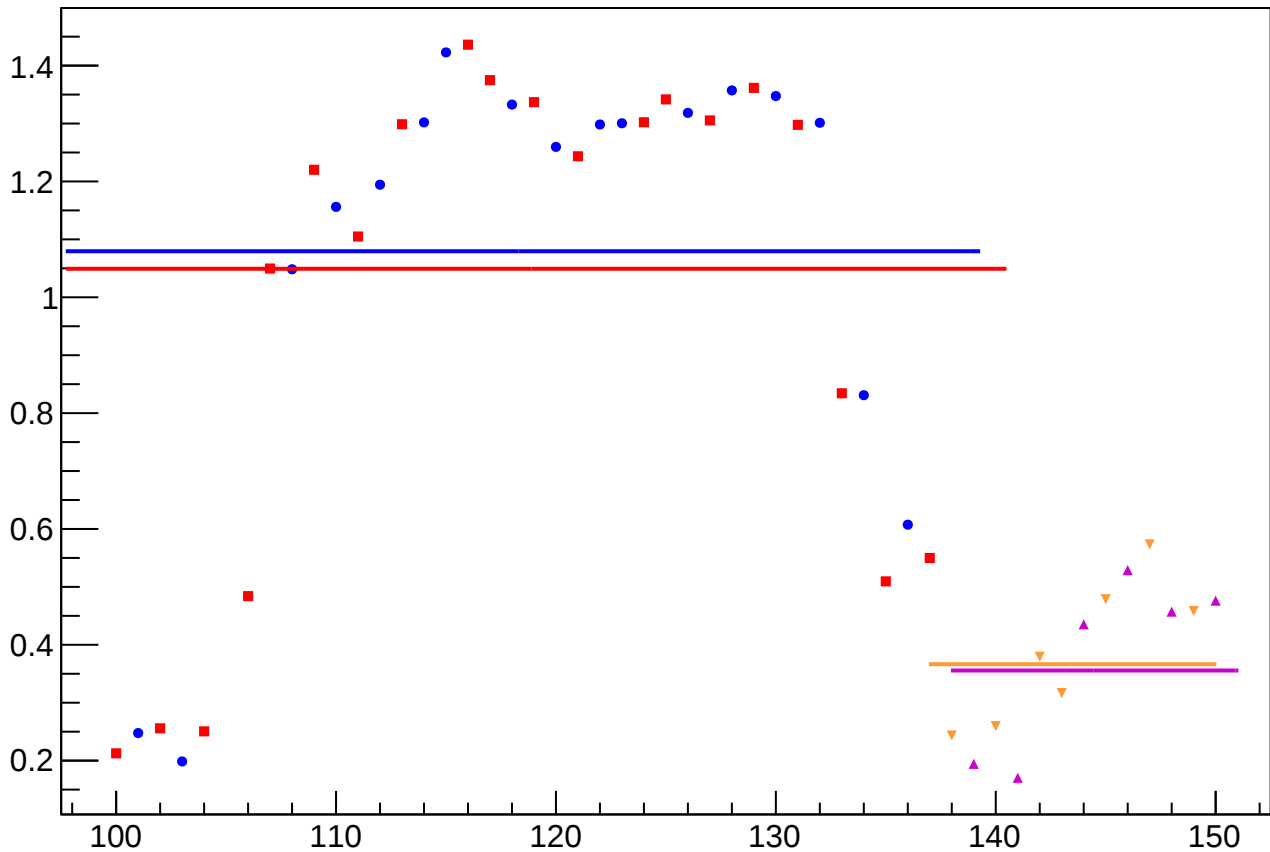
Right Out: 0.002+/-0.000 χ^2/NDF : 81037.5/19

Left In: 0.002+/-0.000 χ^2/NDF :137556.8/5

0.002+/-0.000 χ^2/NDF : 198332.3/23

0.002+/-0.000 χ^2/NDF : 285262.6/25

yield_bpm2i02X_mean vs Slug



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.366 $\pm$ 0.000 χ^2 /NDF:540224584.2/6

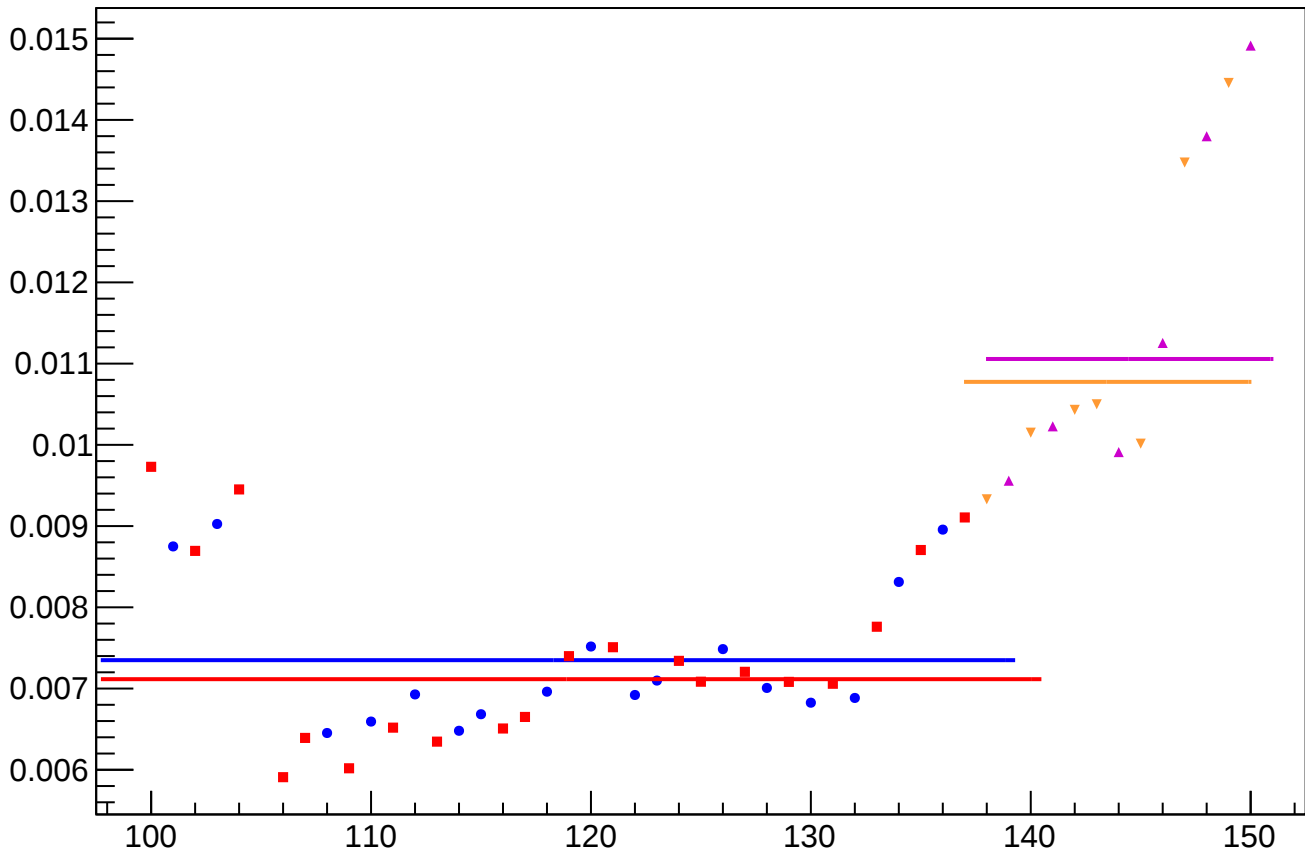
0.898 $\pm$ 0.000 χ^2 /NDF: 33860775760.0/23

Right Out: 1.049 $\pm$ 0.000 χ^2 /NDF: 19787986428.4/19

0.898 $\pm$ 0.000 χ^2 /NDF: 35119566031.8/25

Left In: 0.356 $\pm$ 0.000 χ^2 /NDF:814530210.9/5

yield_bpm2i02X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.011+/-0.000 χ^2/NDF : 217286.0/6

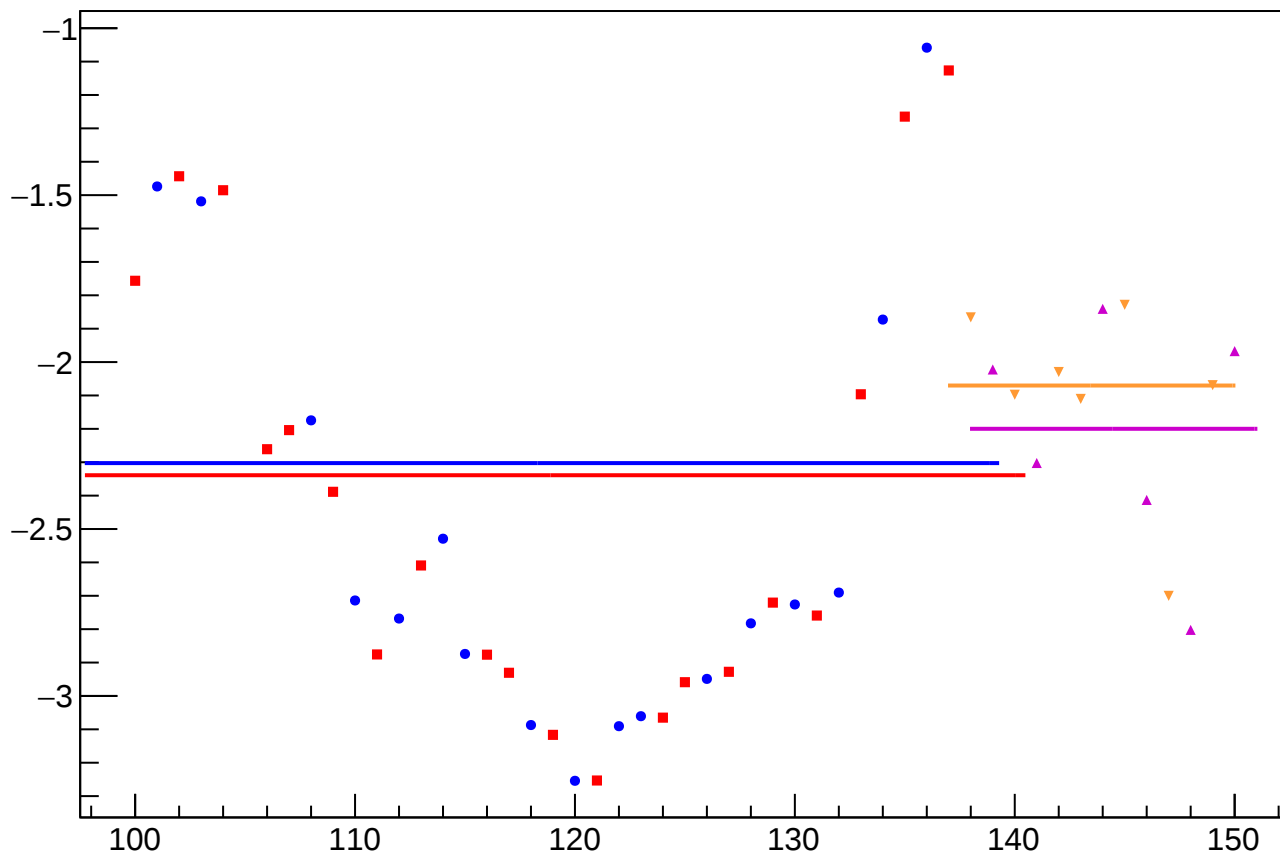
Right Out: 0.007+/-0.000 χ^2/NDF : 259539.3/19

Left In: 0.011+/-0.000 χ^2/NDF : 246028.7/5

0.008+/-0.000 χ^2/NDF : 1127060.4/23

0.008+/-0.000 χ^2/NDF : 1443171.9/25

yield_bpm2i02Y_mean vs Slug



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.070+/-0.000 χ^2/NDF : 3582083806.0/6

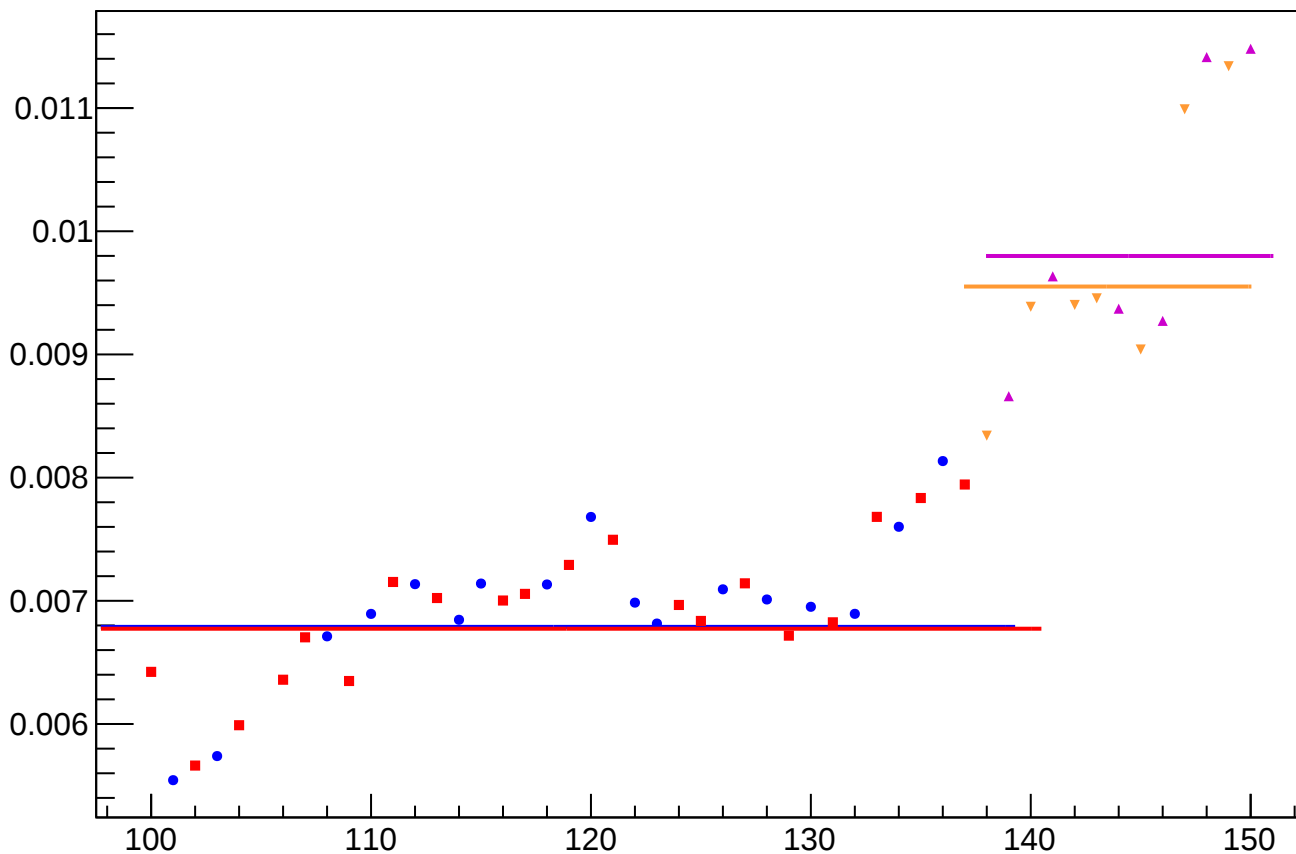
Right Out: -2.339+/-0.000 χ^2/NDF : 64804828308.5/19

Left In: -2.200+/-0.000 χ^2/NDF : 4654377416.5/5

-2.239+/-0.000 χ^2/NDF : 79455959661.2/23

-2.305+/-0.000 χ^2/NDF : 70190207822.9/25

yield_bpm2i02Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.010+/-0.000 χ^2/NDF :103220.4/6

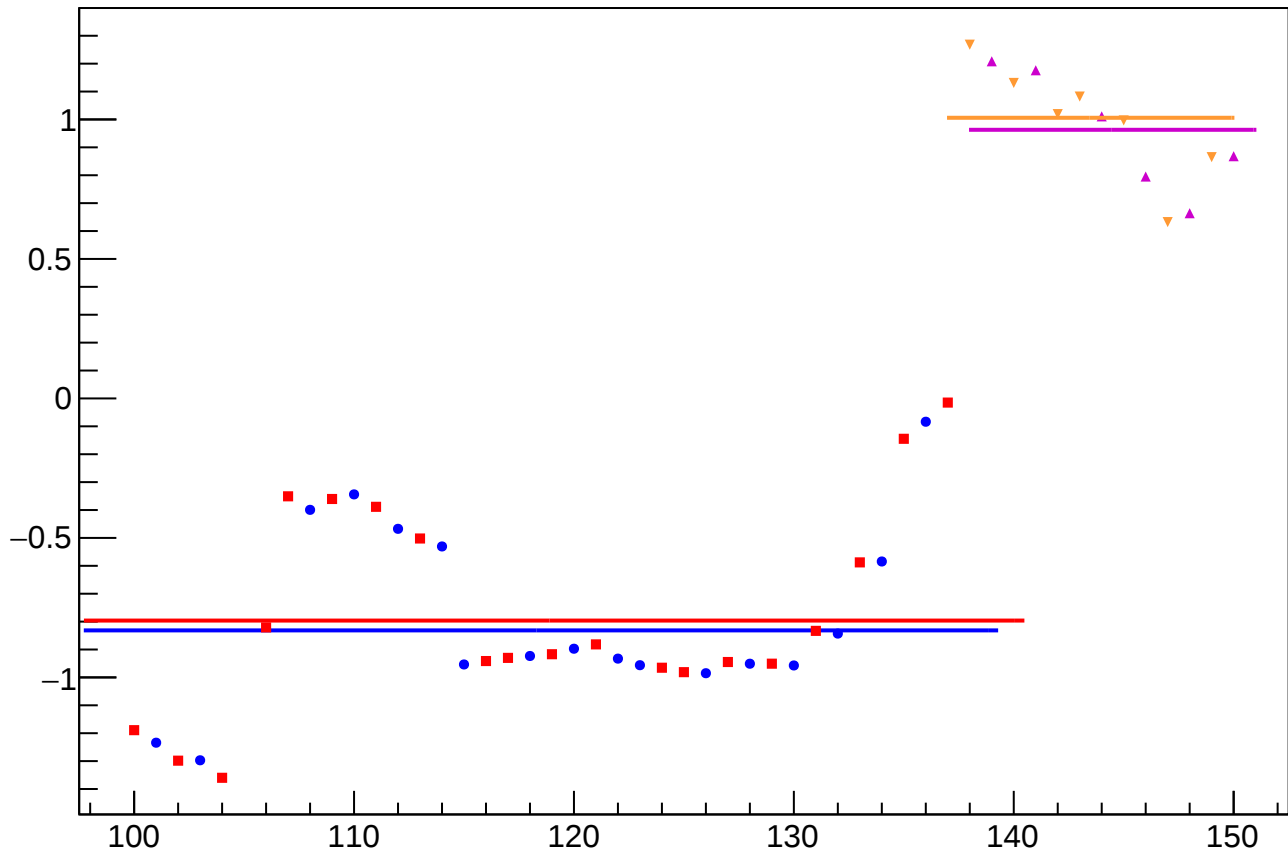
Right Out: 0.007+/-0.000 χ^2/NDF : 123383.6/19

Left In: 0.010+/-0.000 χ^2/NDF :101936.3/5

0.008+/-0.000 χ^2/NDF : 867388.7/23

0.008+/-0.000 χ^2/NDF : 917472.0/25

yield_bpm0i01X_mean vs Slug



Right In: -0.831 ± 0.000 χ^2/NDF : 6692170860.9/16

Left Out: 1.006 ± 0.000 χ^2/NDF : 1092939589.2/6

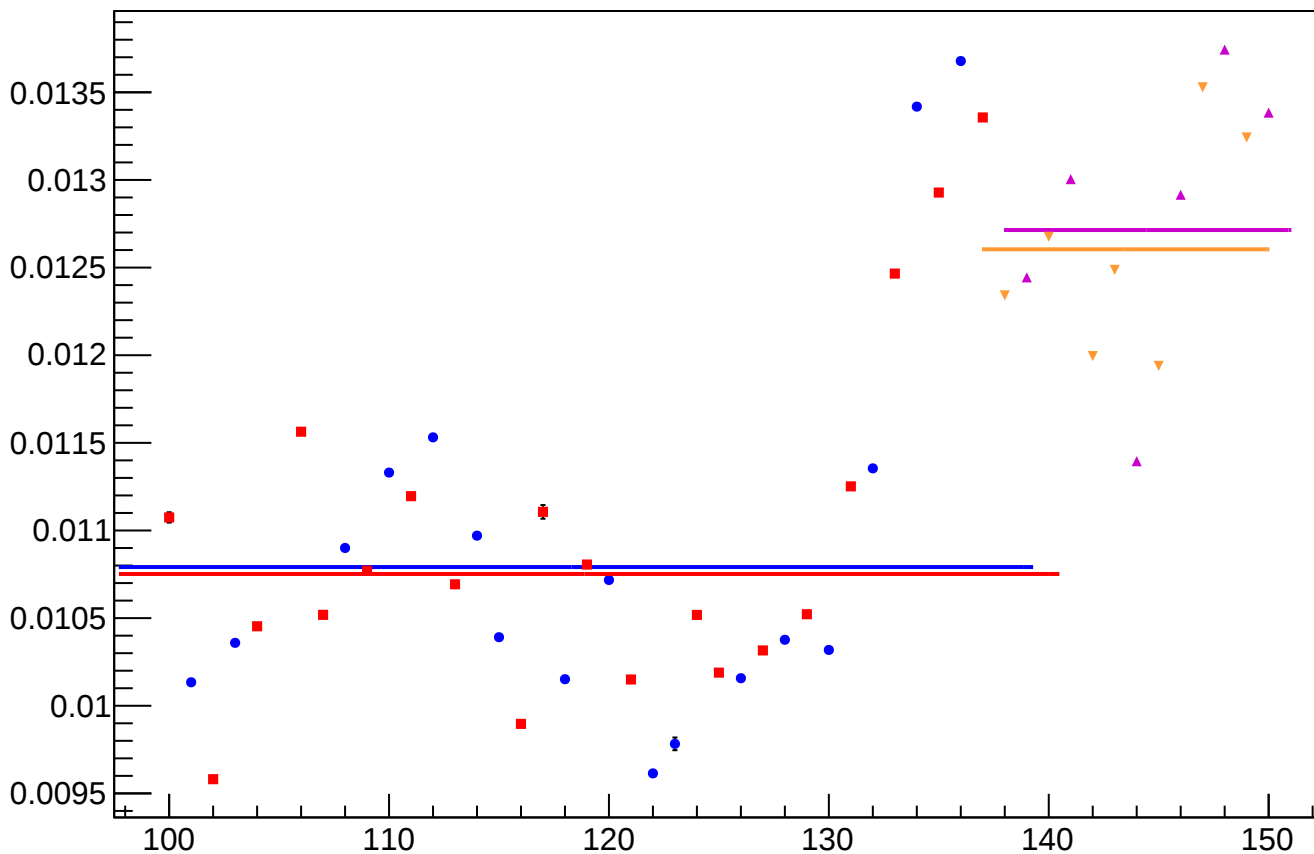
-0.185 ± 0.000 χ^2/NDF : 74799031672.0/23

Right Out: -0.796 ± 0.000 χ^2/NDF : 7827622544.3/19

-0.220 ± 0.000 χ^2/NDF : 69730718299.5/25

Left In: 0.963 ± 0.000 χ^2/NDF : 1045859272.3/5

yield_bpm0i01X_rms vs Slug



Right In: 0.011 ± 0.000 χ^2/NDF : 125802.4/16

Left Out: 0.013 ± 0.000 χ^2/NDF : 18272.2/6

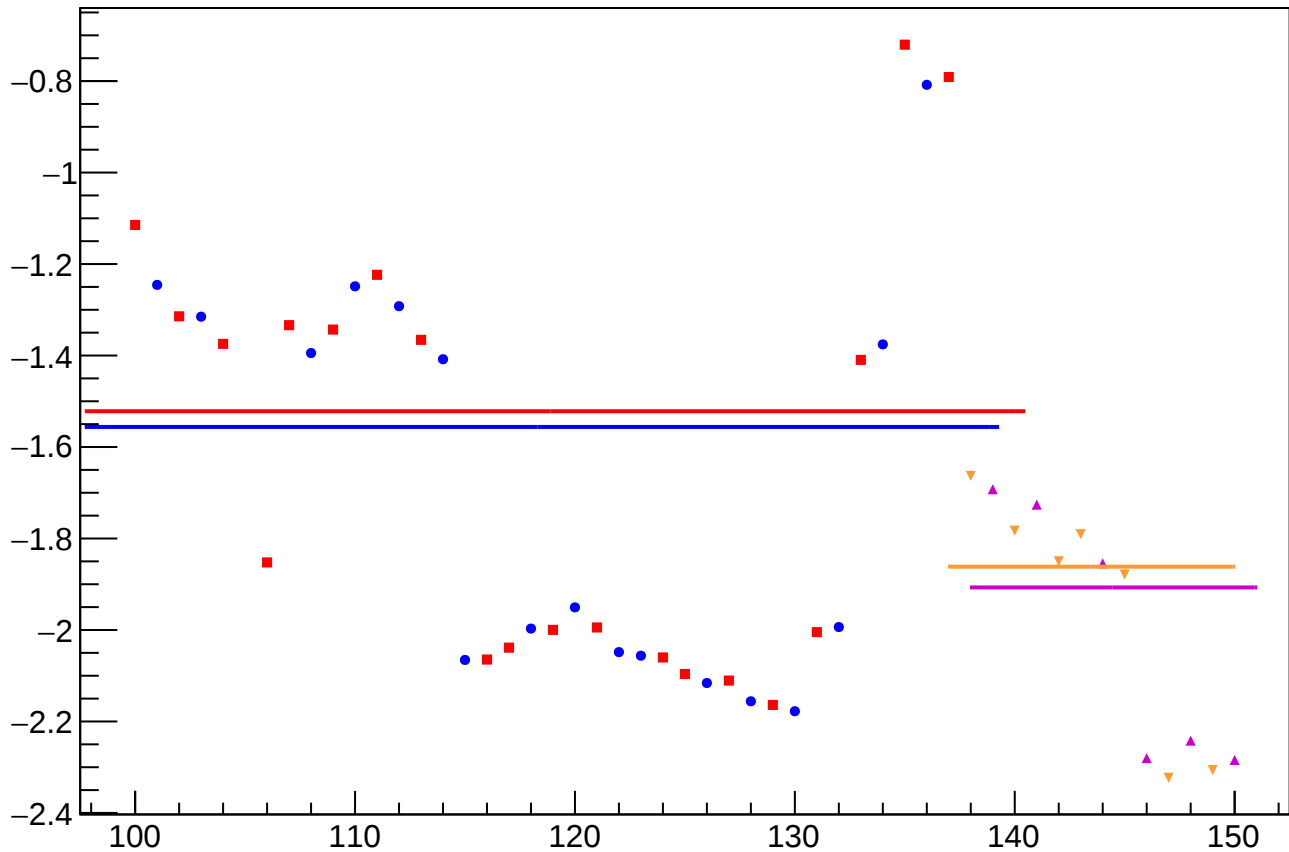
Right Out: 0.011 ± 0.000 χ^2/NDF : 90303.3/19

Left In: 0.013 ± 0.000 χ^2/NDF : 37545.9/5

0.011 ± 0.000 χ^2/NDF : 274539.0/23

0.011 ± 0.000 χ^2/NDF : 279299.9/25

yield_bpm0i01Y_mean vs Slug



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -1.862+/-0.000 χ^2/NDF : 19288039401.1/6

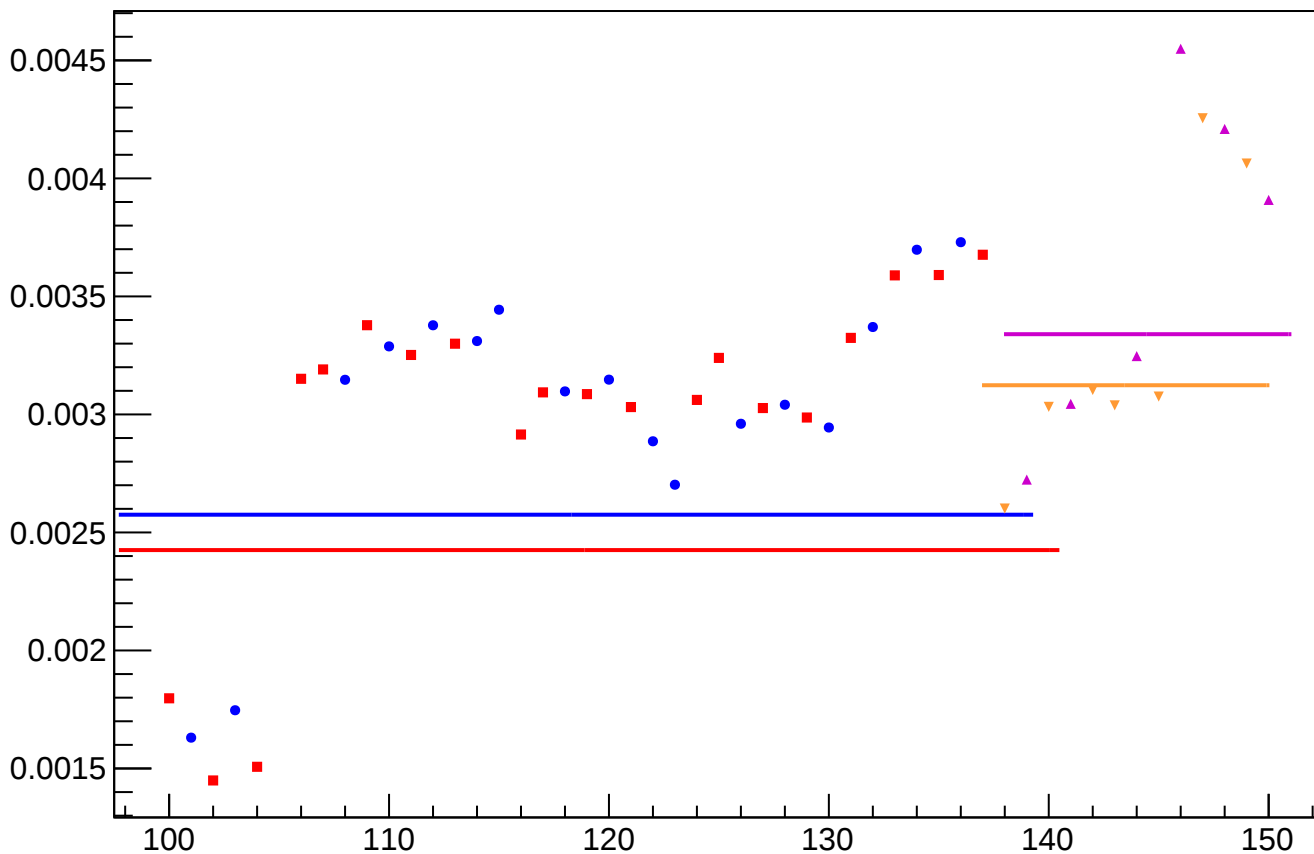
-1.658+/-0.000 χ^2/NDF : 200867503341.0/23

Right Out: -1.522+/-0.000 χ^2/NDF : 139385229659.4/19

-1.625+/-0.000 χ^2/NDF : 198751004008.2/25

Left In: -1.907+/-0.000 χ^2/NDF : 20981894303.2/5

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 : 207494.5/6

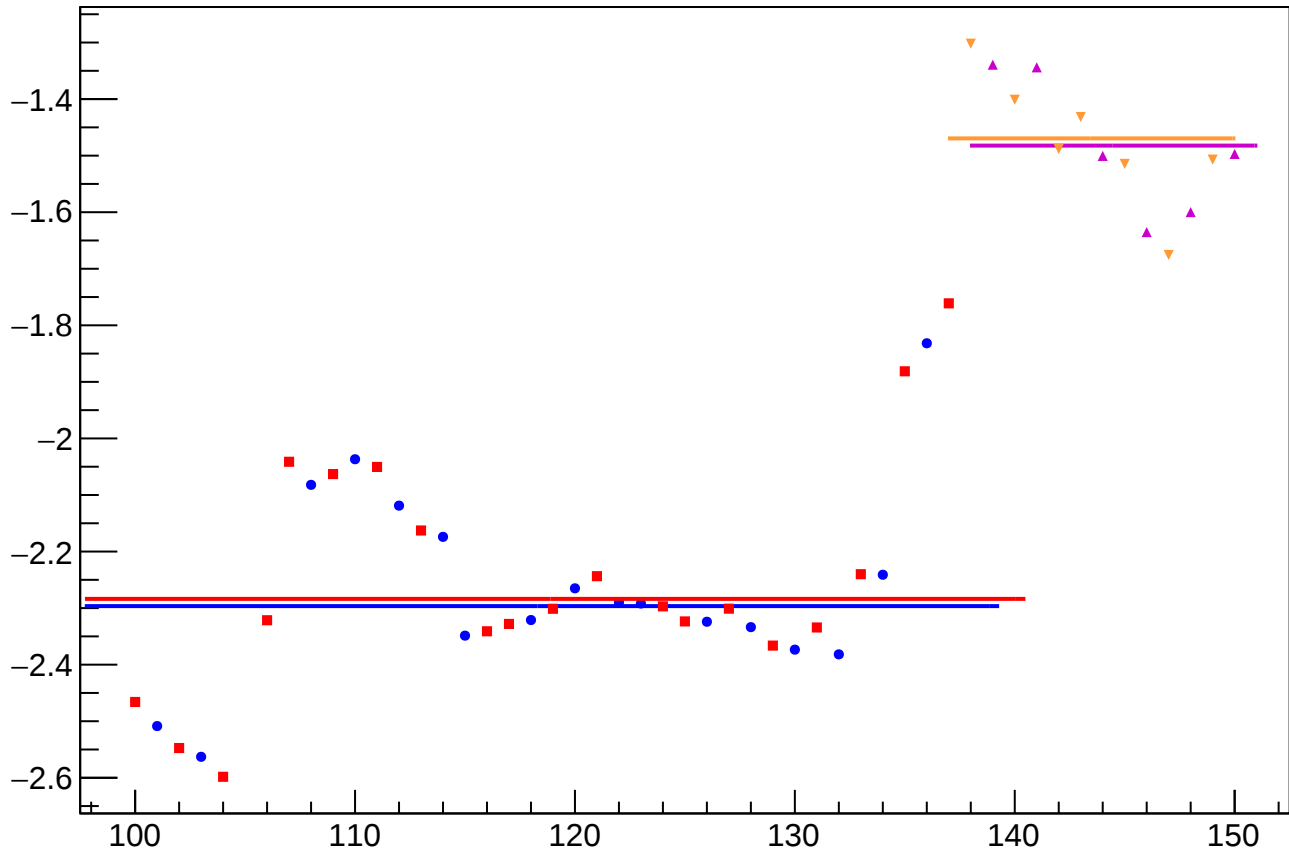
Right Out: 0.002+/-0.000 χ^2/NDF : 1493210.7/19

Left In: 0.003+/-0.000 χ^2/NDF : 237191.1/5

0.003+/-0.000 χ^2/NDF : 1392955.5/23

0.003+/-0.000 χ^2/NDF : 2163320.9/25

yield_bpm0i01aX_mean vs Slug



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

-2.052+/-0.000 χ^2/NDF : 37233086986.0/23

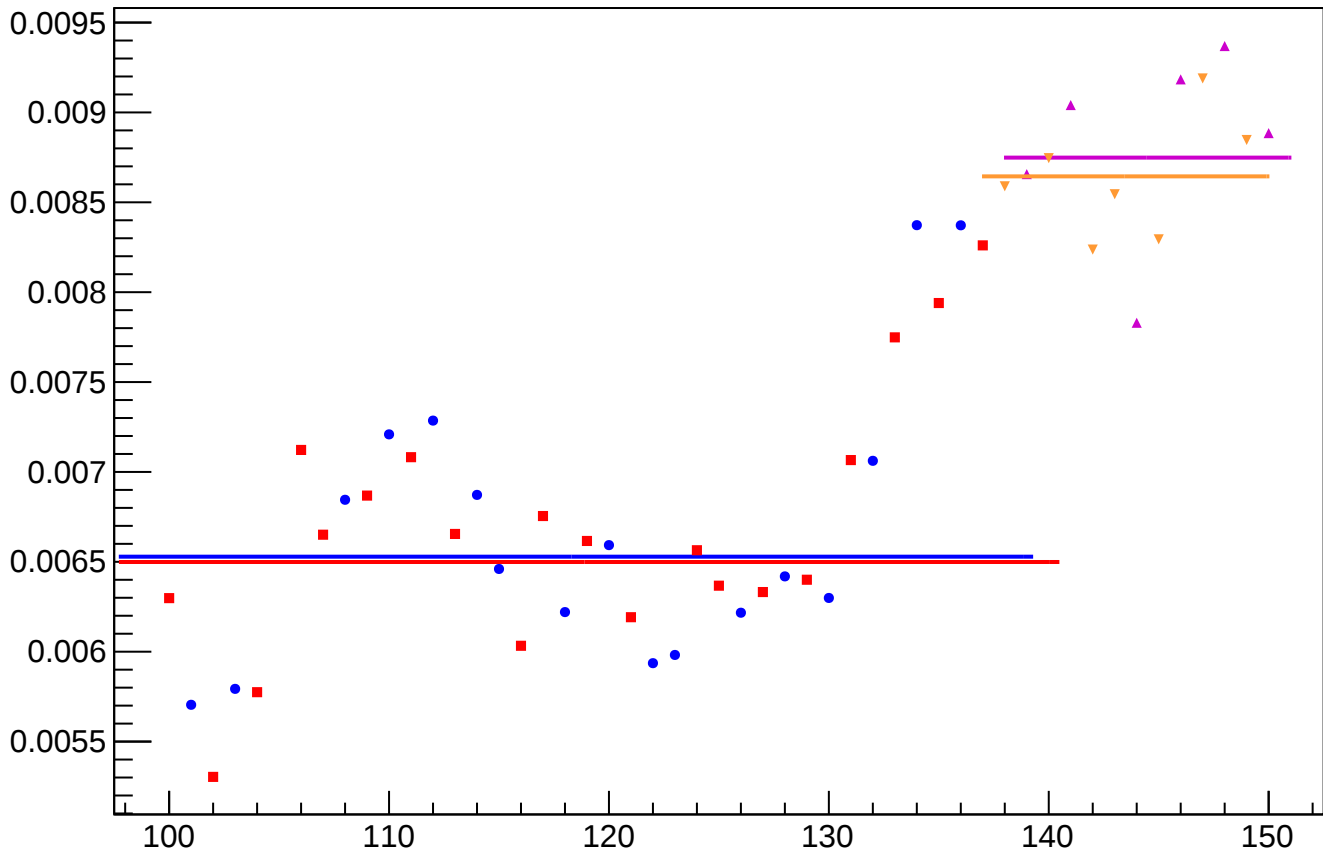
Left Out: -1.470+/-0.000 χ^2/NDF : 730754730.7/6

Right Out: -2.284+/-0.000 χ^2/NDF : 6550363990.6/19

-2.066+/-0.000 χ^2/NDF : 35443567963.9/25

Left In: -1.482+/-0.000 χ^2/NDF : 703882565.5/5

yield_bpm0i01aX_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.009+/-0.000 χ^2/NDF :10851.8/6

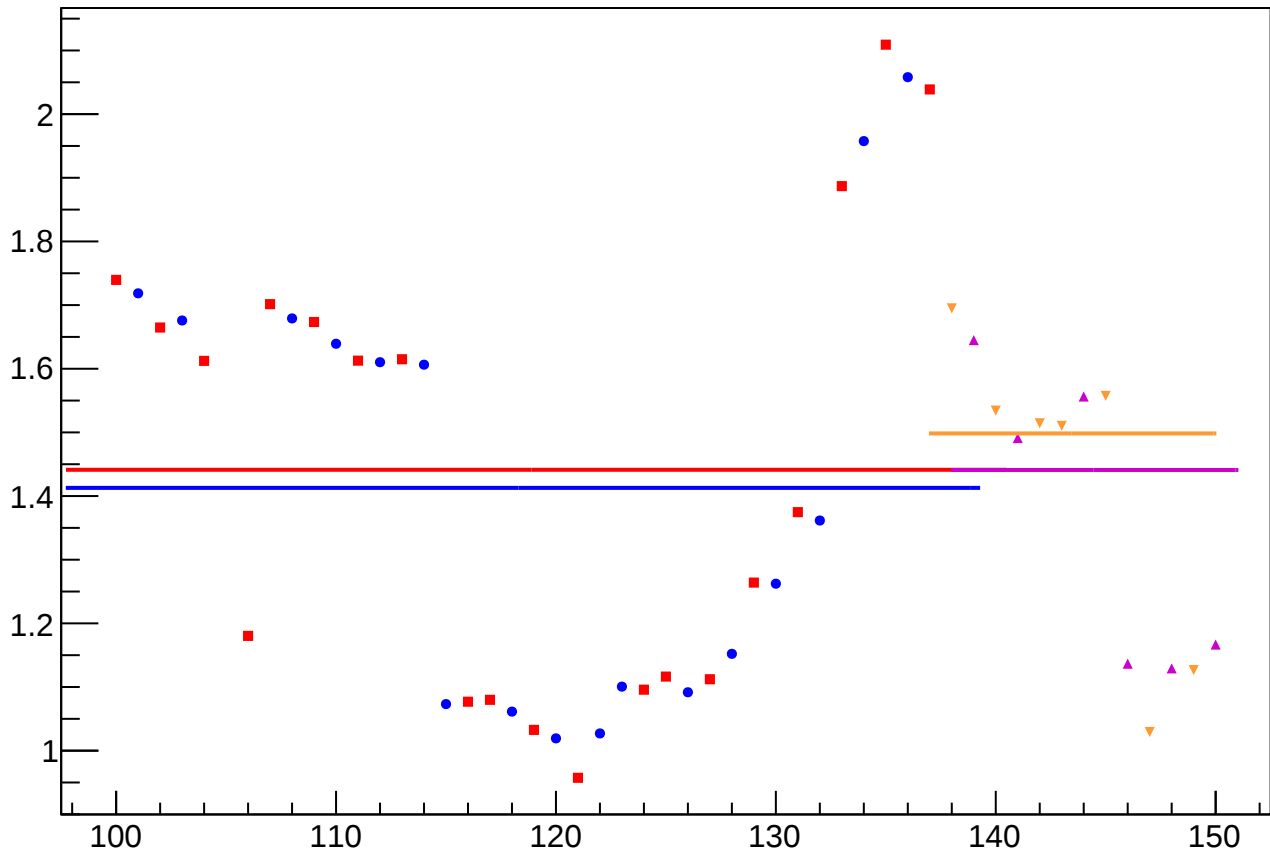
Right Out: 0.006+/-0.000 χ^2/NDF : 164253.8/19

Left In: 0.009+/-0.000 χ^2/NDF :35186.8/5

0.007+/-0.000 χ^2/NDF : 589452.7/23

0.007+/-0.000 χ^2/NDF : 643622.7/25

yield_bpm0i01aY_mean vs Slug



Right In: 1.413 $\pm$ 0.000 χ^2/NDF : 172560306608.0/16

Left Out: 1.498 $\pm$ 0.000 χ^2/NDF : 5995775513.2/6

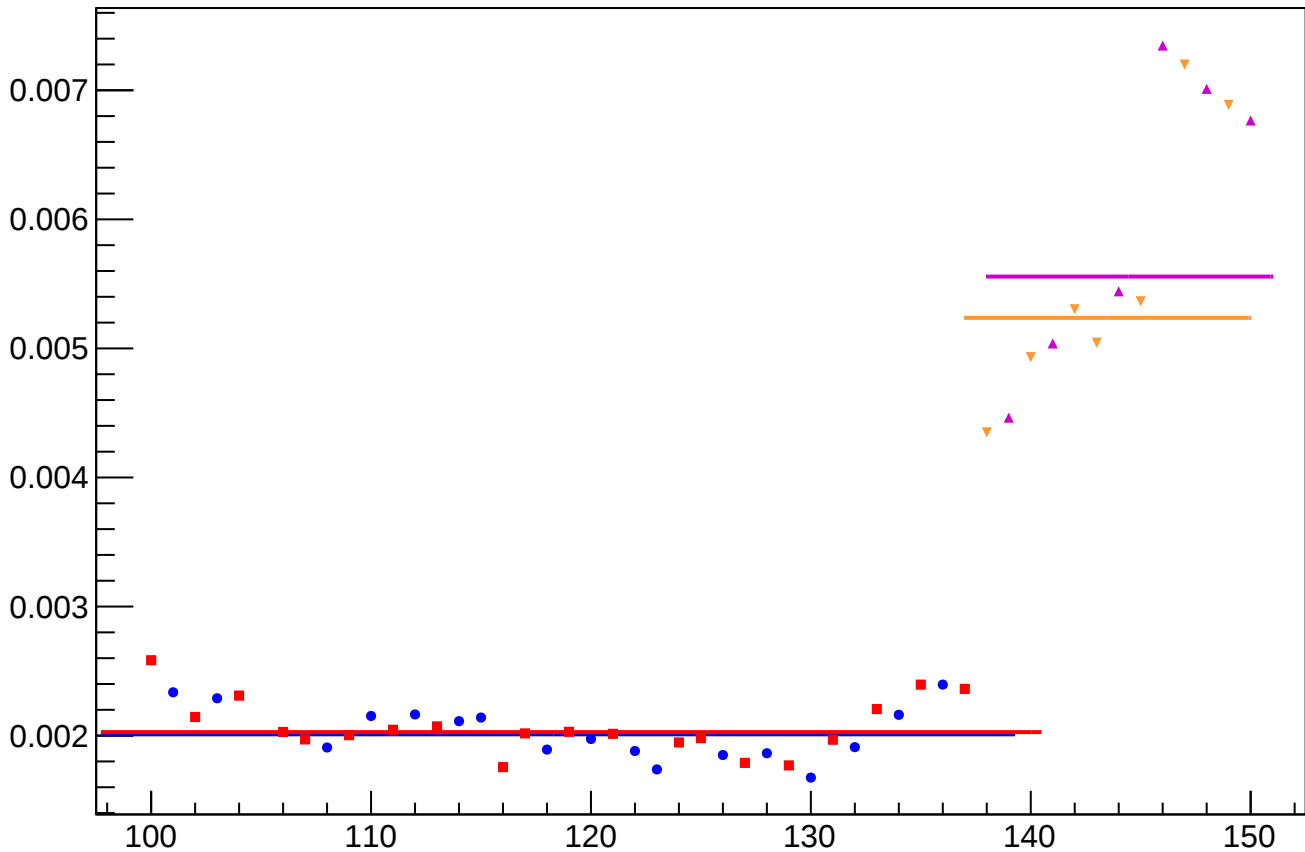
1.421 $\pm$ 0.000 χ^2/NDF : 179601754336.5/23

Right Out: 1.441 $\pm$ 0.000 χ^2/NDF : 174346888744.4/19

1.441 $\pm$ 0.000 χ^2/NDF : 179620827882.6/25

Left In: 1.441 $\pm$ 0.000 χ^2/NDF : 5273928562.9/5

yield_bpm0i01aY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.005+/-0.000 χ^2/NDF : 231284.8/6

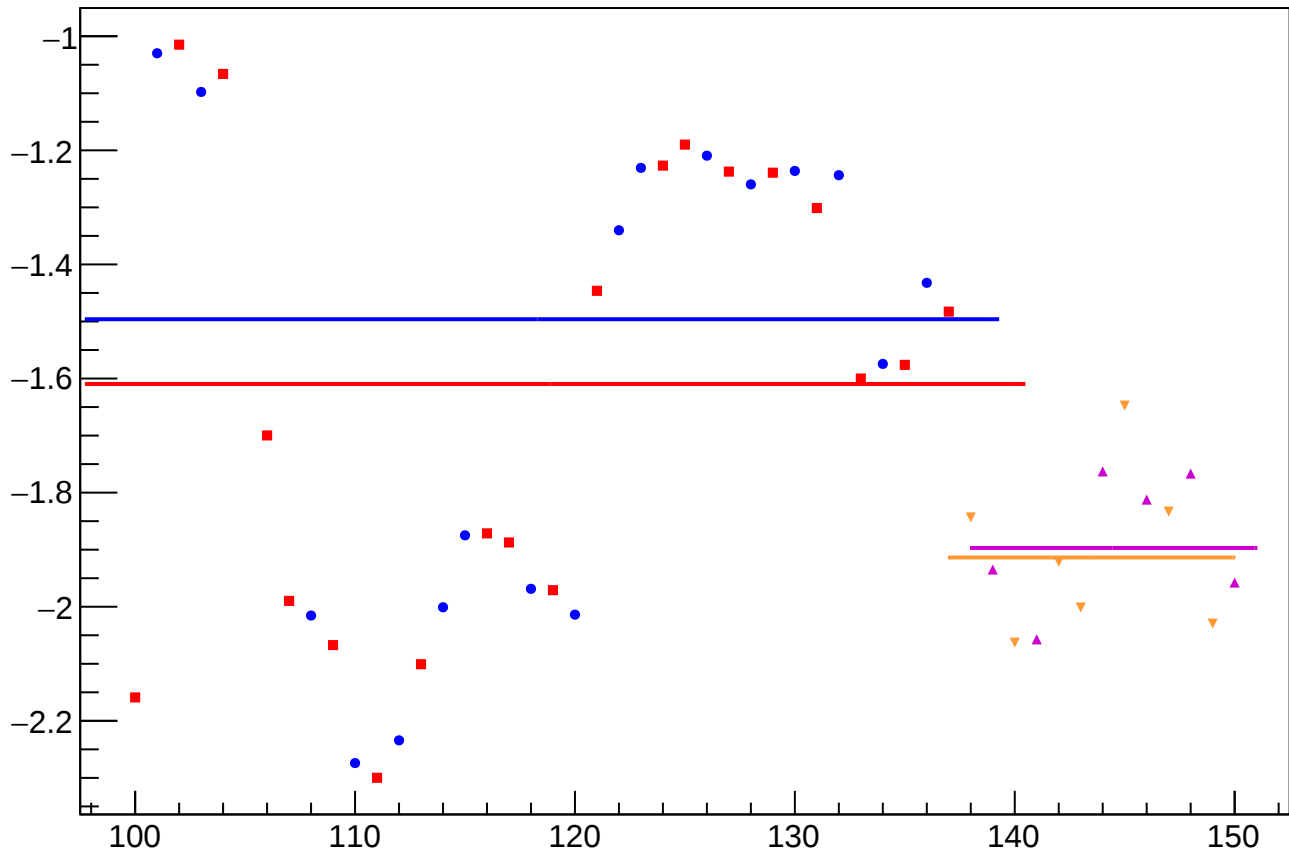
Right Out: 0.002+/-0.000 χ^2/NDF : 103927.8/19

Left In: 0.006+/-0.000 χ^2/NDF : 266342.6/5

0.002+/-0.000 χ^2/NDF : 3359909.6/23

0.002+/-0.000 χ^2/NDF : 3423317.1/25

yield_bpm0l01X_mean vs Slug



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.914+/-0.000 χ^2/NDF : 2661346322.7/6

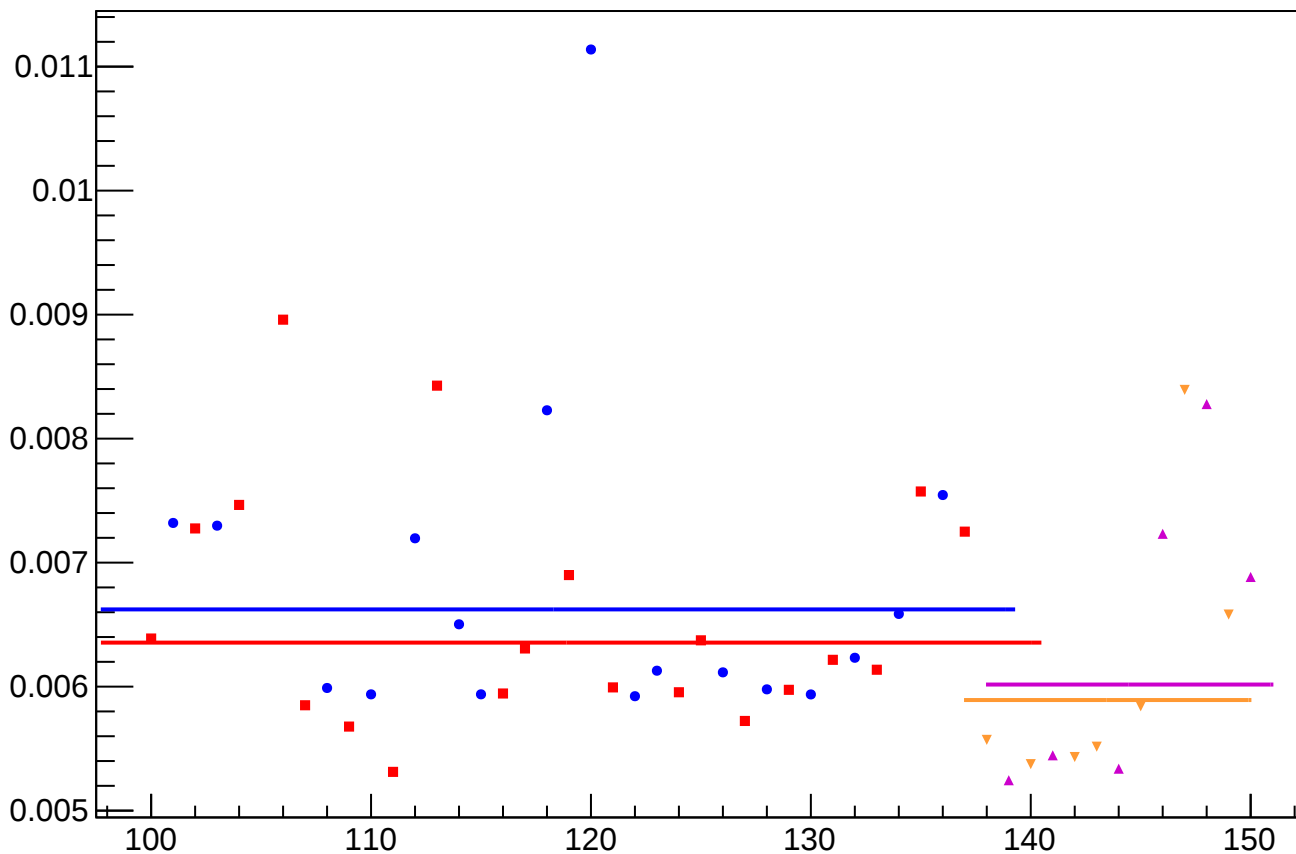
Right Out: -1.610+/-0.000 χ^2/NDF : 27919840690.9/19

Left In: -1.897+/-0.000 χ^2/NDF : 1603051161.3/5

-1.701+/-0.000 χ^2/NDF : 37053722865.3/23

-1.732+/-0.000 χ^2/NDF : 35288229565.0/25

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 :171527.4/6

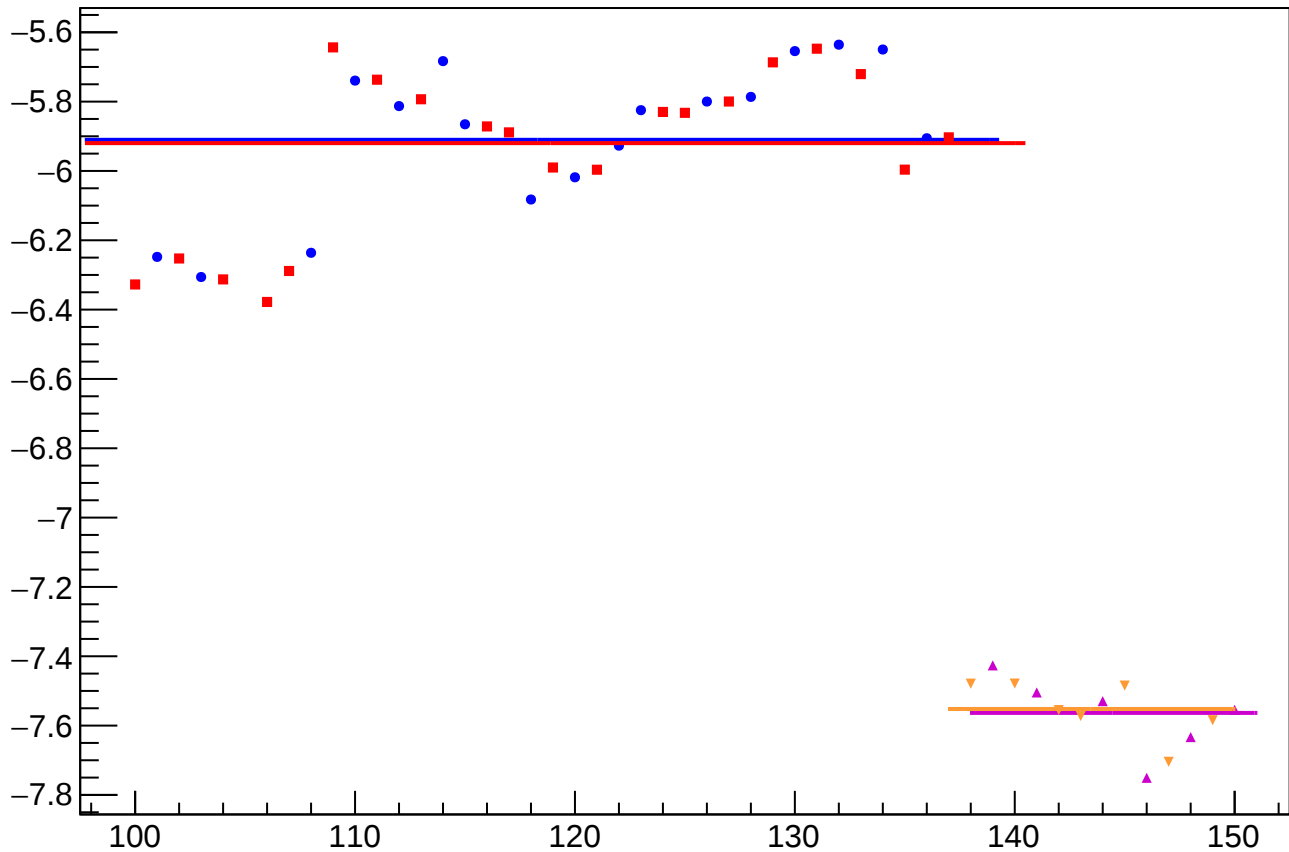
Right Out: 0.006+/-0.000 χ^2/NDF : 227865.9/19

Left In: 0.006+/-0.000 χ^2/NDF :244565.8/5

0.006+/-0.000 χ^2/NDF : 476859.5/23

0.006+/-0.000 χ^2/NDF : 488394.4/25

yield_bpm0l01Y_mean vs Slug



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -7.552+/-0.000 χ^2/NDF : 360555184.4/6

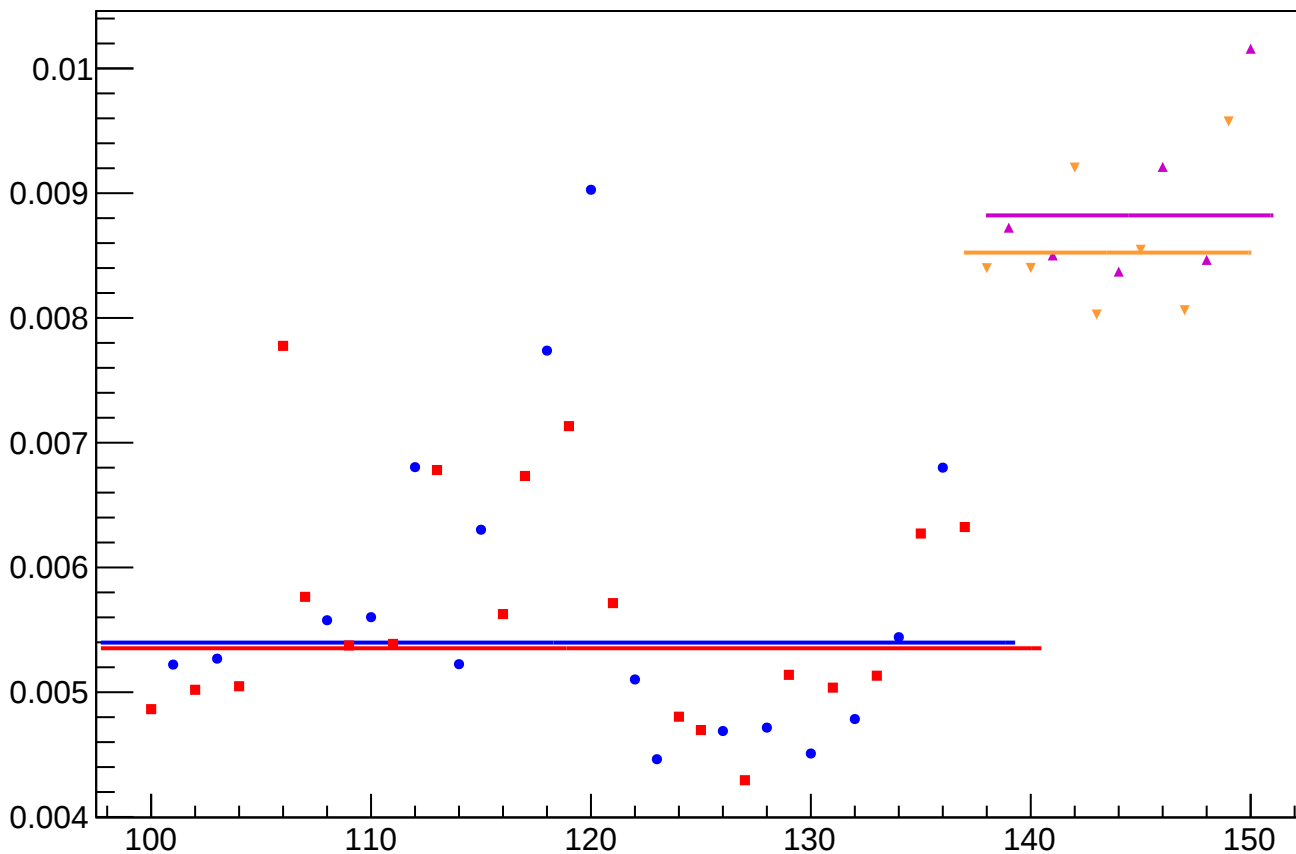
-6.264+/-0.000 χ^2/NDF : 129441737586.3/23

Right Out: -5.920+/-0.000 χ^2/NDF : 12786449843.6/19

-6.232+/-0.000 χ^2/NDF : 127858988309.8/25

Left In: -7.563+/-0.000 χ^2/NDF : 488774576.9/5

yield_bpm0l01Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.009+/-0.000 χ^2/NDF :29043.6/6

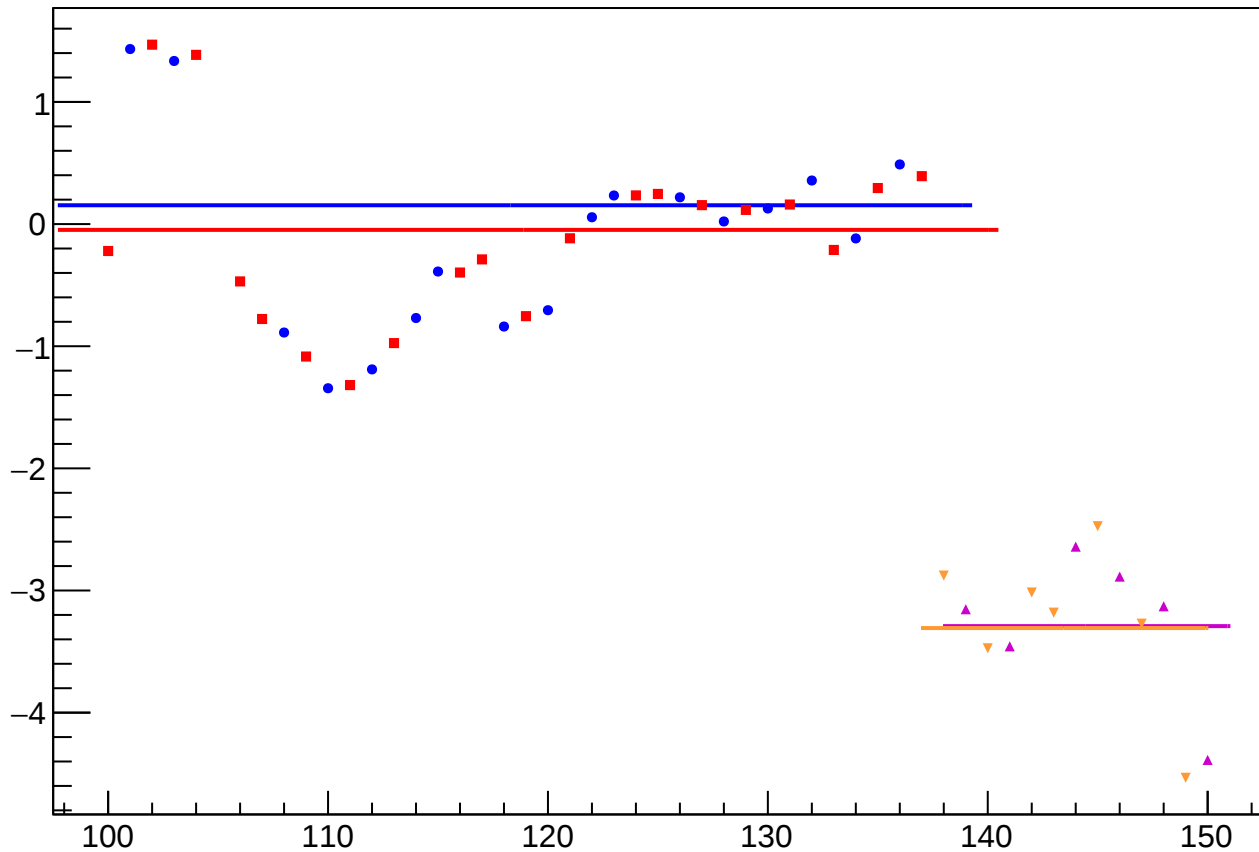
Right Out: 0.005+/-0.000 χ^2/NDF : 252664.1/19

Left In: 0.009+/-0.000 χ^2/NDF :36549.0/5

0.006+/-0.000 χ^2/NDF : 1255456.8/23

0.006+/-0.000 χ^2/NDF : 1310461.9/25

yield_bpm0l02X_mean vs Slug



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.307+/-0.000 χ^2/NDF : 6384556689.9/6

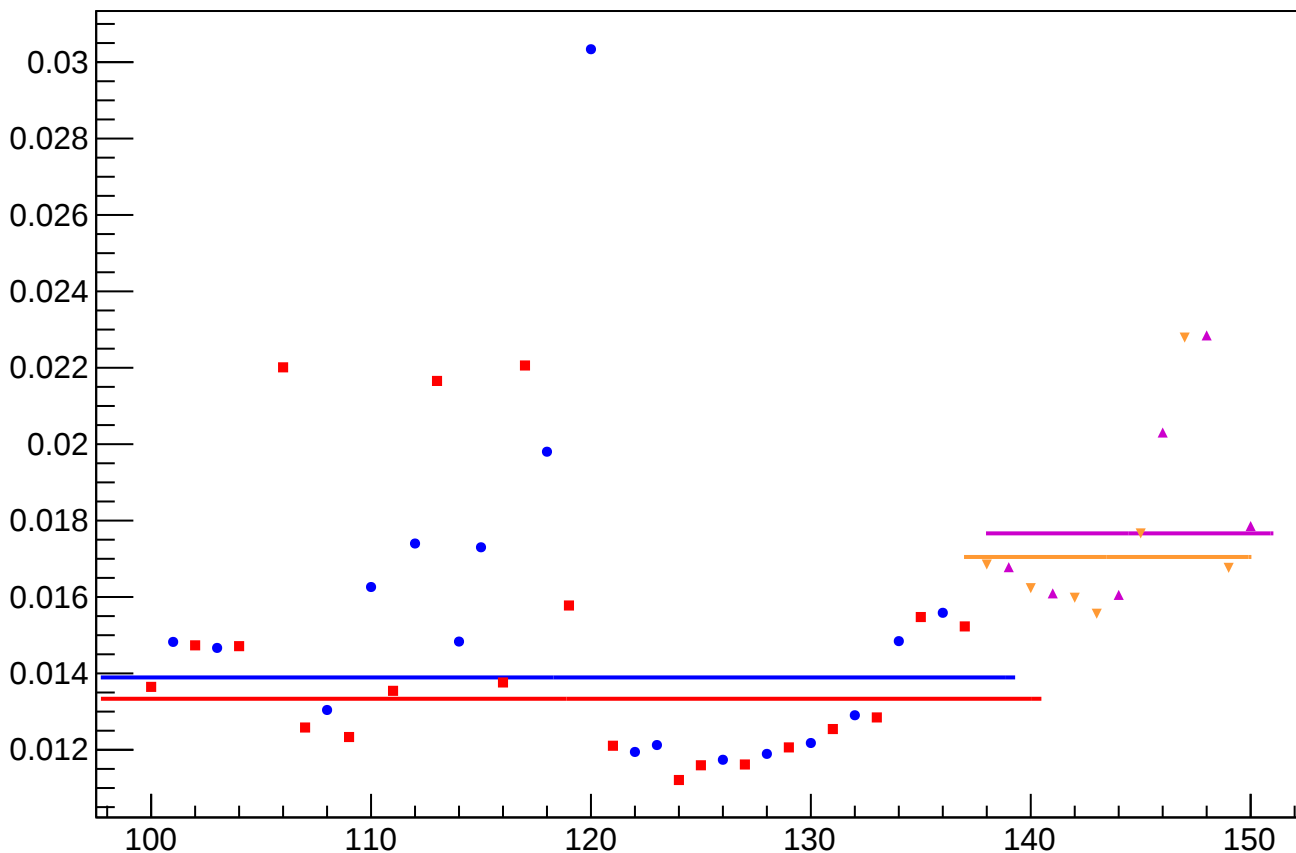
Right Out: -0.047+/-0.000 χ^2/NDF : 21216074494.2/19

Left In: -3.292+/-0.000 χ^2/NDF : 4825669643.4/5

-1.027+/-0.000 χ^2/NDF : 148754861975.1/23

-0.960+/-0.000 χ^2/NDF : 134164028245.8/25

yield_bpm0l02X_rms vs Slug



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.017+/-0.000 χ^2/NDF :111087.6/6

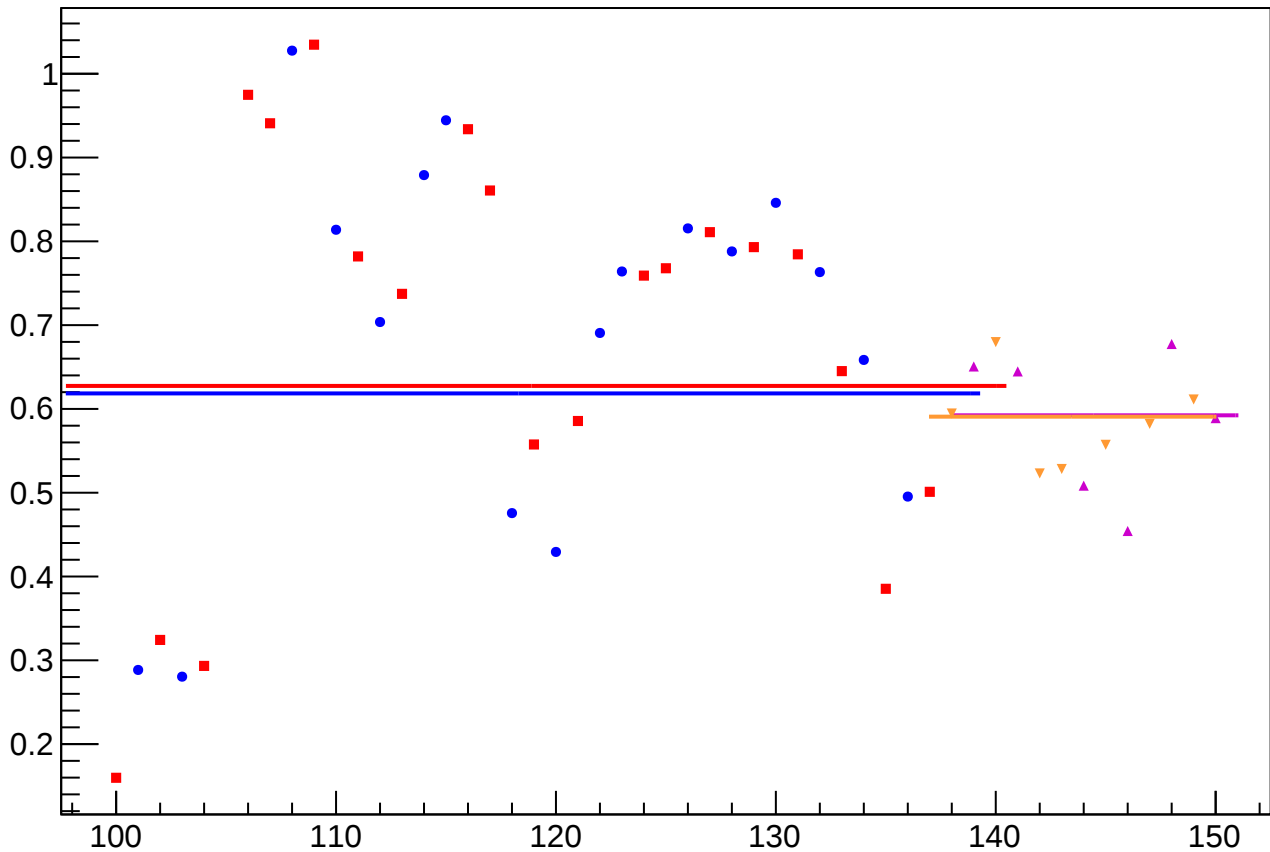
Right Out: 0.013+/-0.000 χ^2/NDF : 303459.9/19

Left In: 0.018+/-0.000 χ^2/NDF :134237.4/5

0.015+/-0.000 χ^2/NDF : 719726.1/23

0.015+/-0.000 χ^2/NDF : 822804.2/25

yield_bpm0l02Y_mean vs Slug



Right In: 0.619 $\pm$ 0.000 χ^2 /NDF: 5416939288.1/16

Left Out: 0.591 $\pm$ 0.000 χ^2 /NDF: 221413195.0/6

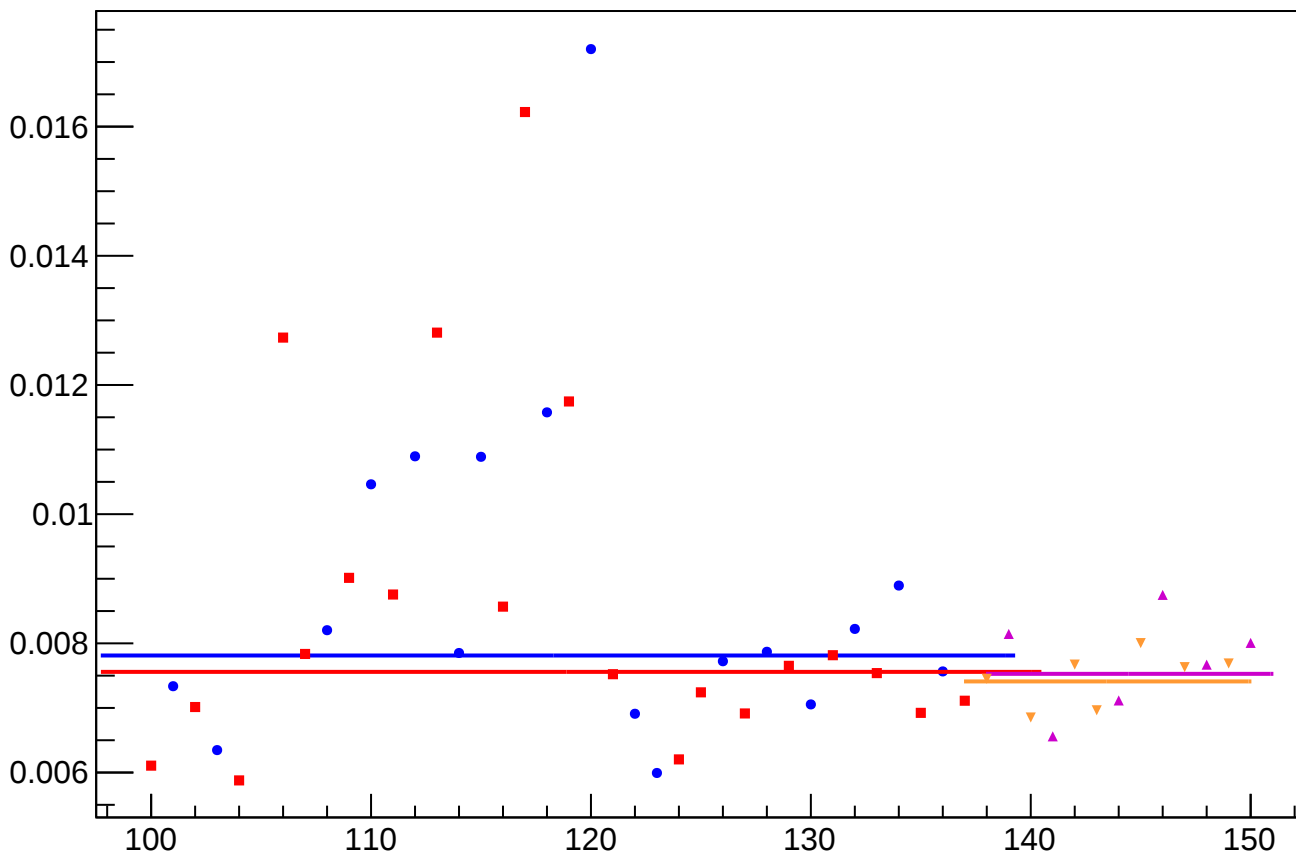
0.606 $\pm$ 0.000 χ^2 /NDF: 5671992297.3/23

Right Out: 0.627 $\pm$ 0.000 χ^2 /NDF: 6345684740.0/19

0.613 $\pm$ 0.000 χ^2 /NDF: 6857231738.5/25

Left In: 0.592 $\pm$ 0.000 χ^2 /NDF: 455770710.2/5

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 :25935.3/6

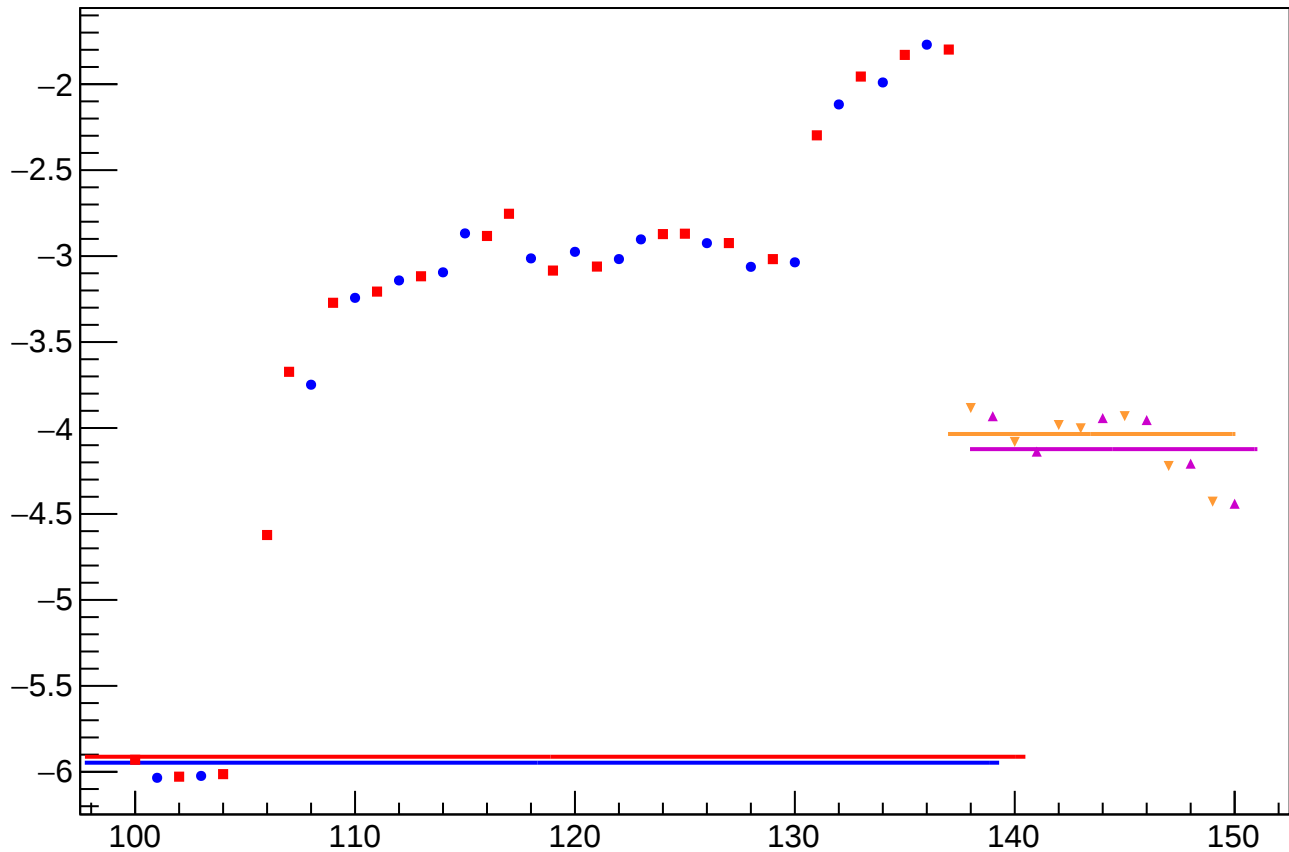
Right Out: 0.008+/-0.000 χ^2/NDF : 463232.7/19

Left In: 0.008+/-0.000 χ^2/NDF :80440.1/5

0.008+/-0.000 χ^2/NDF : 506859.6/23

0.008+/-0.000 χ^2/NDF : 543757.0/25

yield_bpm0l03X_mean vs Slug



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.035+/-0.000 χ^2/NDF : 14852795.1/6

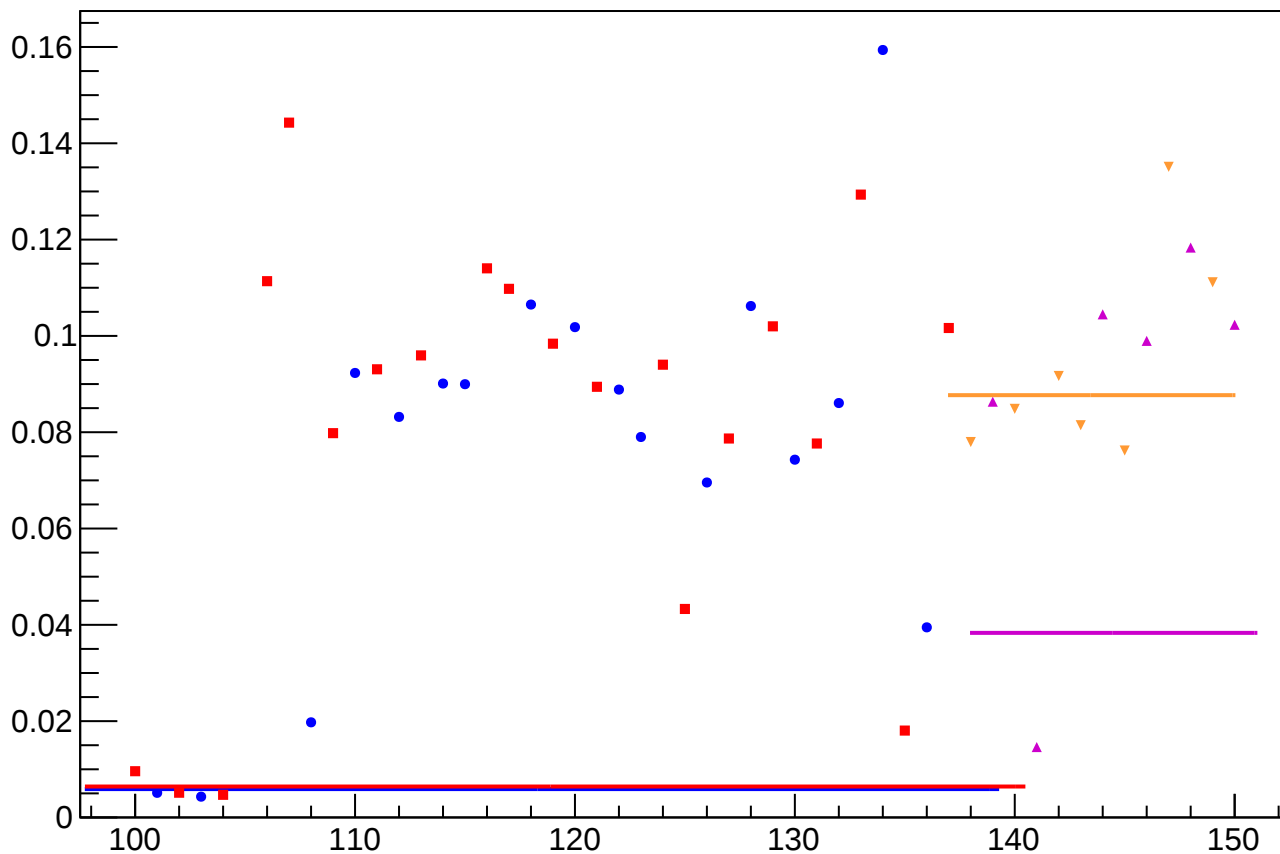
Right Out: -5.912+/-0.000 χ^2/NDF : 14648055548.9/19

Left In: -4.123+/-0.000 χ^2/NDF : 14204272.4/5

-5.924+/-0.000 χ^2/NDF : 15226590898.9/23

-5.858+/-0.000 χ^2/NDF : 18392346895.6/25

yield_bpm0l03X_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.088+/-0.000 χ^2/NDF :293625.0/6

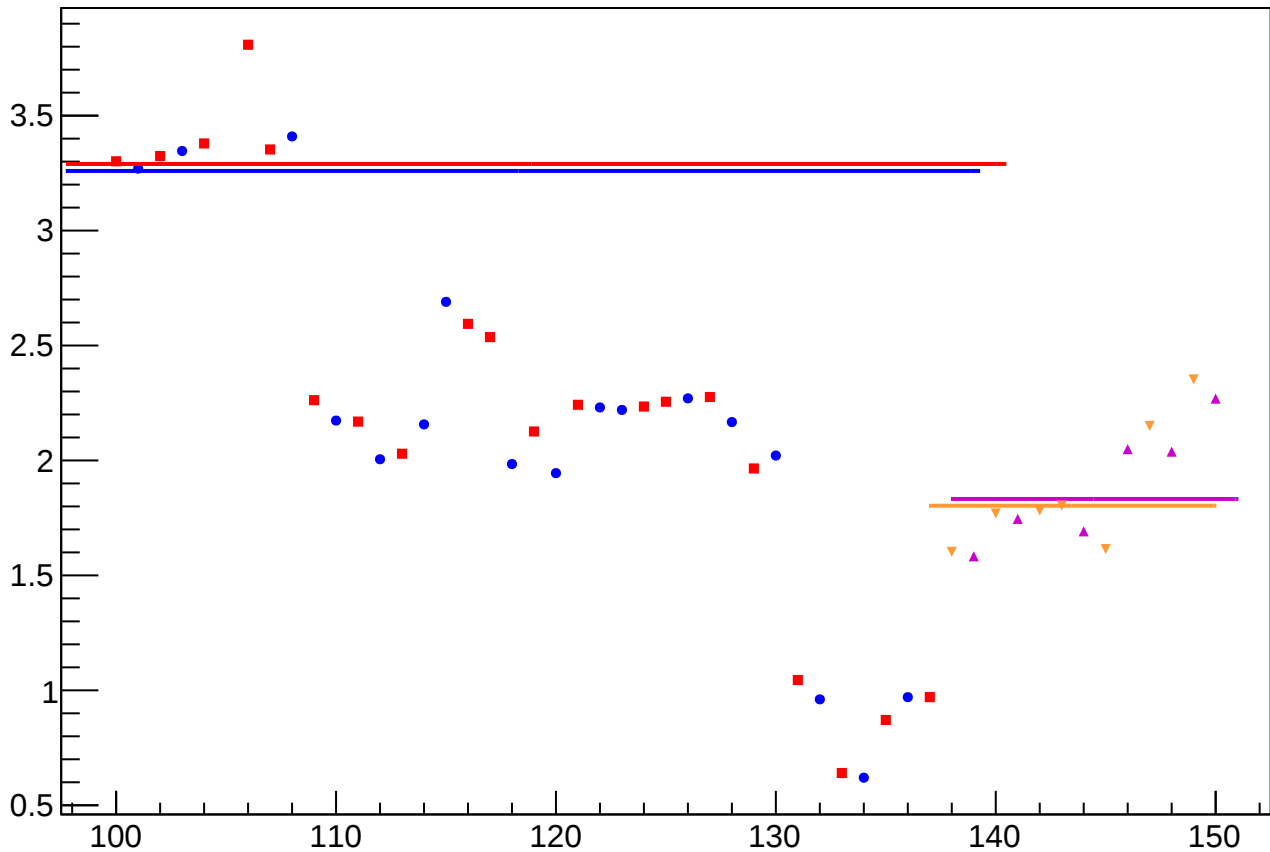
Right Out: 0.006+/-0.000 χ^2/NDF : 8558731.2/19

Left In: 0.038+/-0.000 χ^2/NDF :3647721.1/5

0.007+/-0.000 χ^2/NDF : 15716977.2/23

0.007+/-0.000 χ^2/NDF : 14578777.9/25

yield_bpm0l03Y_mean vs Slug



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 1.803+/-0.000 χ^2/NDF : 29091250.3/6

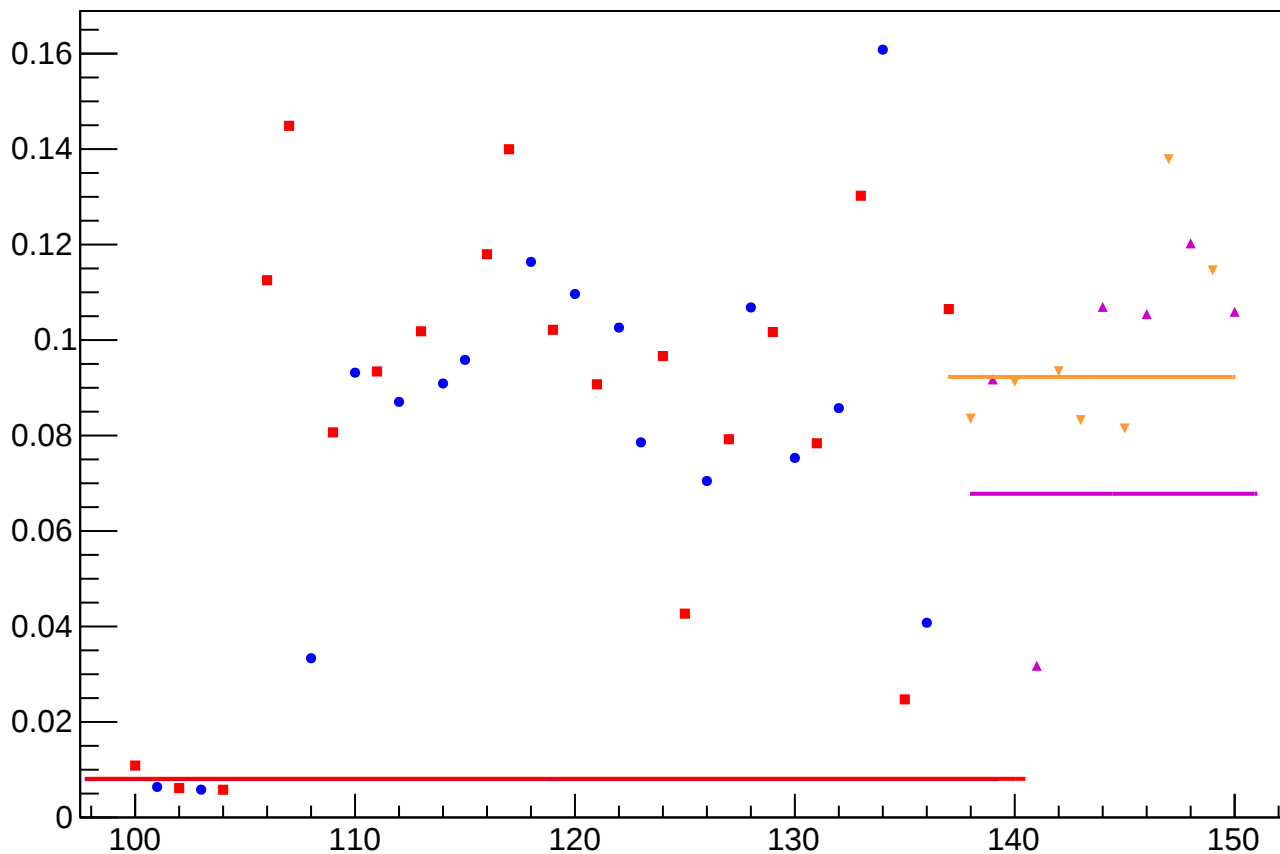
3.234+/-0.000 χ^2/NDF : 4023345384.8/23

Right Out: 3.290+/-0.000 χ^2/NDF : 3263300926.6/19

3.256+/-0.000 χ^2/NDF : 4580706833.7/25

Left In: 1.833+/-0.000 χ^2/NDF : 24531334.6/5

yield_bpm0l03Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.092+/-0.000 χ^2/NDF : 256474.4/6

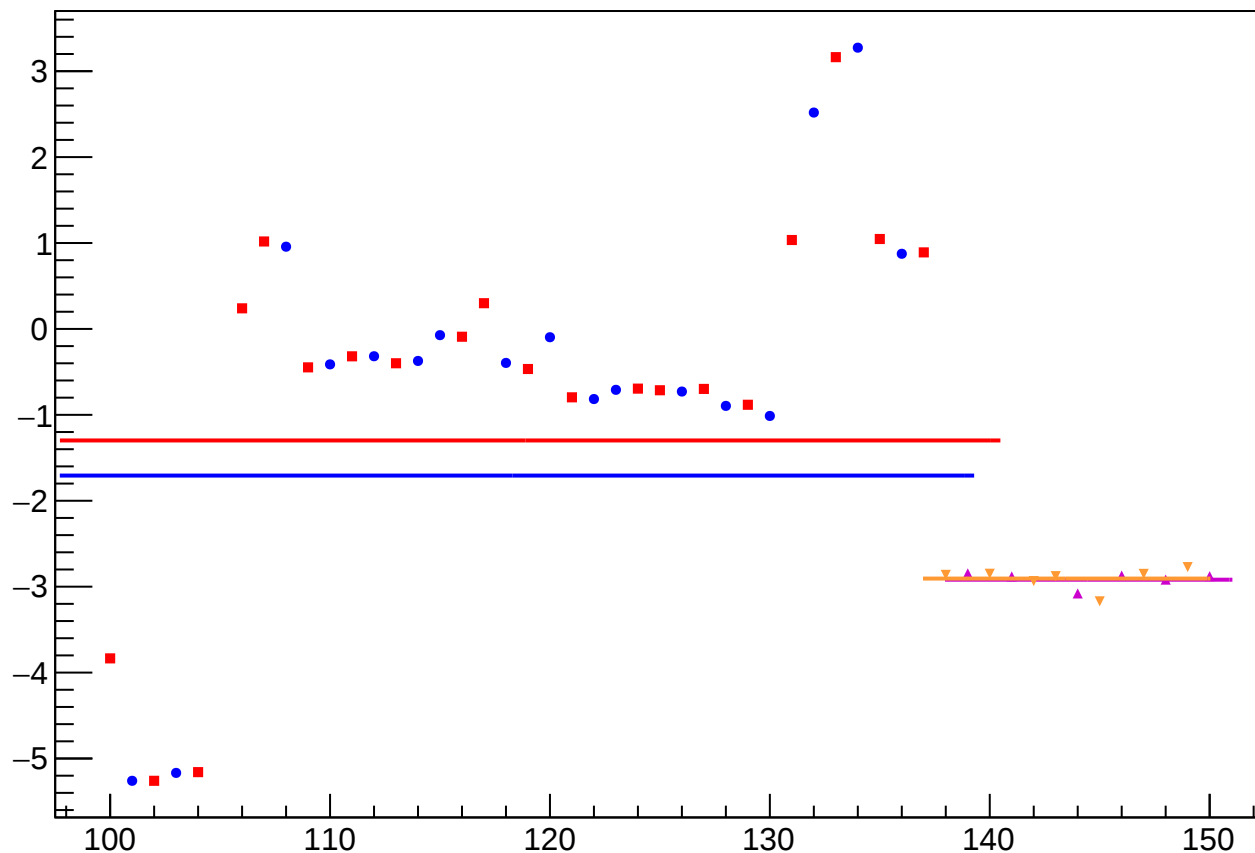
Right Out: 0.008+/-0.000 χ^2/NDF : 8375005.0/19

Left In: 0.068+/-0.000 χ^2/NDF : 1738712.5/5

0.010+/-0.000 χ^2/NDF : 15173882.0/23

0.009+/-0.000 χ^2/NDF : 14453946.8/25

yield_bpm0l04X_mean vs Slug



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.906+/-0.000 χ^2/NDF : 1210827706.6/6

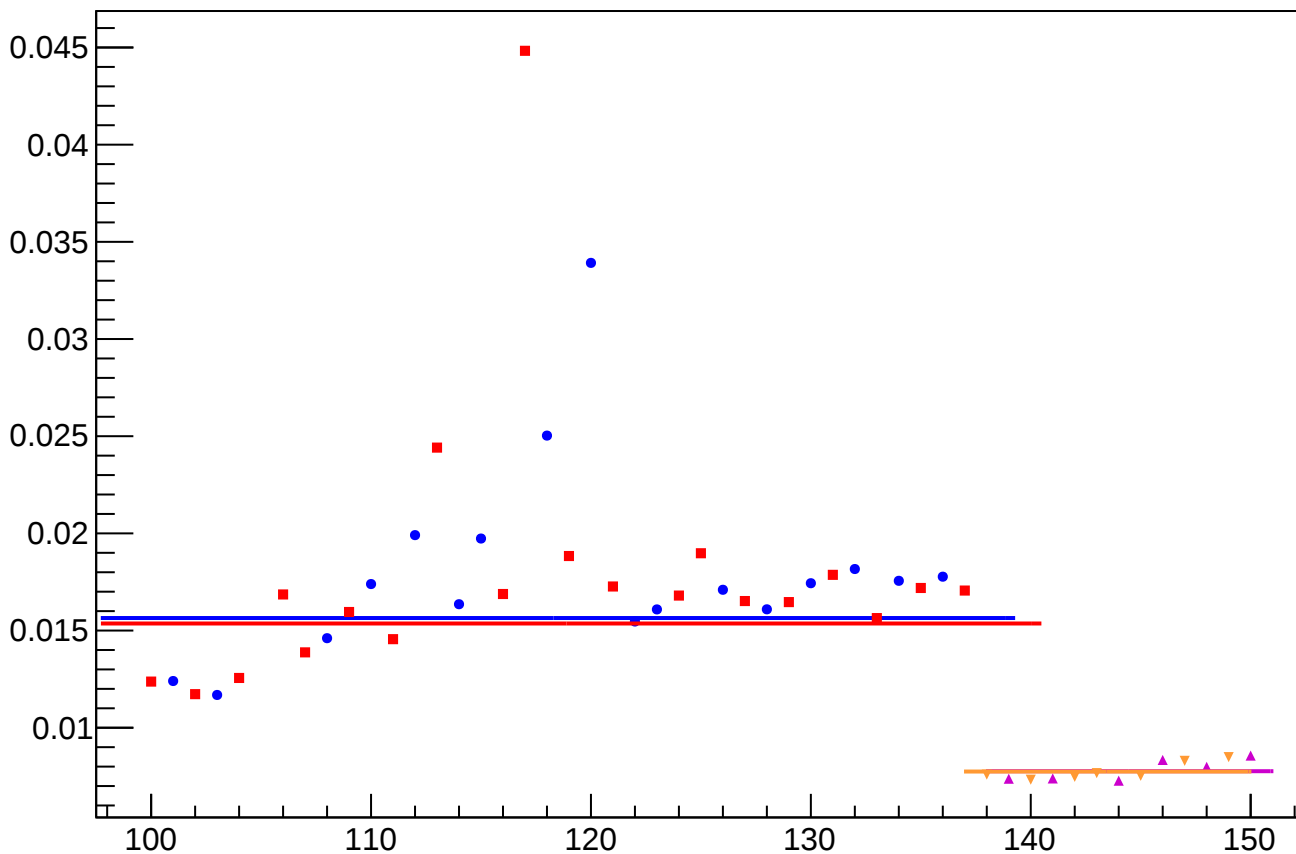
Right Out: -1.298+/-0.000 χ^2/NDF : 178085926993.4/19

Left In: -2.919+/-0.000 χ^2/NDF : 532877111.2/5

-2.637+/-0.000 χ^2/NDF : 192877641804.8/23

-2.506+/-0.000 χ^2/NDF : 230192492454.1/25

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 : 26390.8/6

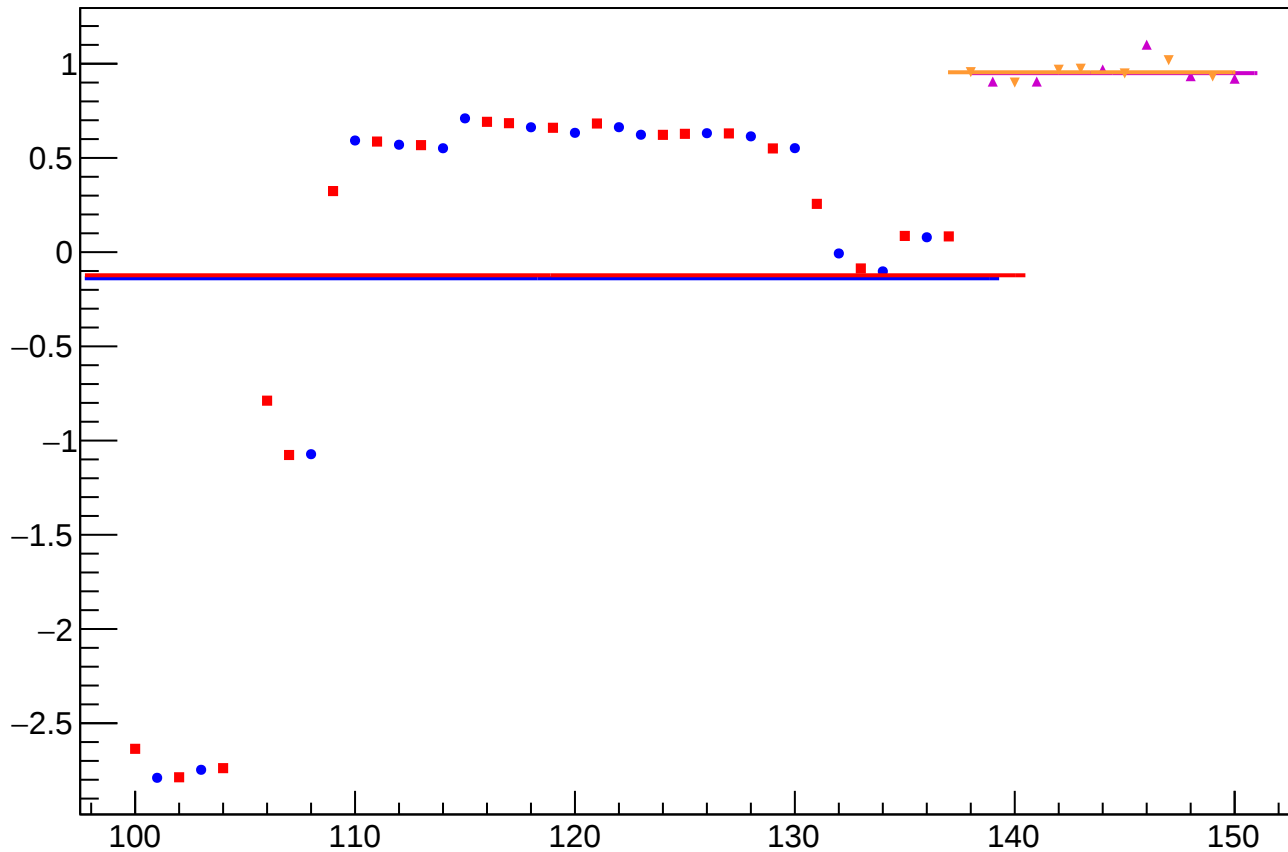
Right Out: 0.015+/-0.000 χ^2/NDF : 387283.2/19

Left In: 0.008+/-0.000 χ^2/NDF : 38325.5/5

0.010+/-0.000 χ^2/NDF : 2821961.0/23

0.010+/-0.000 χ^2/NDF : 2693720.6/25

yield_bpm0l04Y_mean vs Slug



Right In: -0.139 ± 0.000 χ^2/NDF : 715049983856.2/16

Left Out: 0.955 ± 0.000 χ^2/NDF : 121362244.5/6

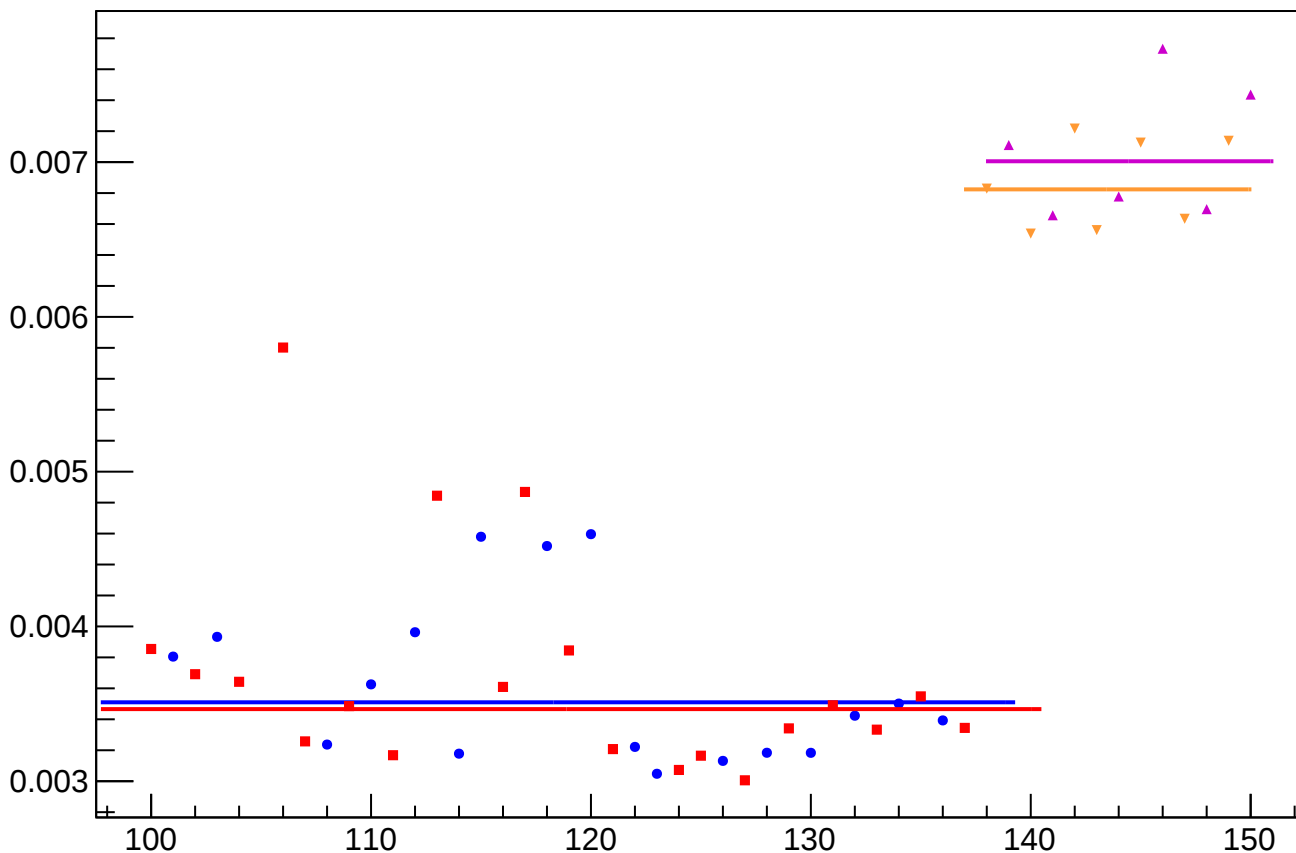
0.026 ± 0.000 χ^2/NDF : 807738660790.2/23

Right Out: -0.123 ± 0.000 χ^2/NDF : 762580598699.5/19

0.020 ± 0.000 χ^2/NDF : 849086544164.2/25

Left In: 0.950 ± 0.000 χ^2/NDF : 326579357.9/5

yield_bpm0l04Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 171337.9/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:12901.6/6

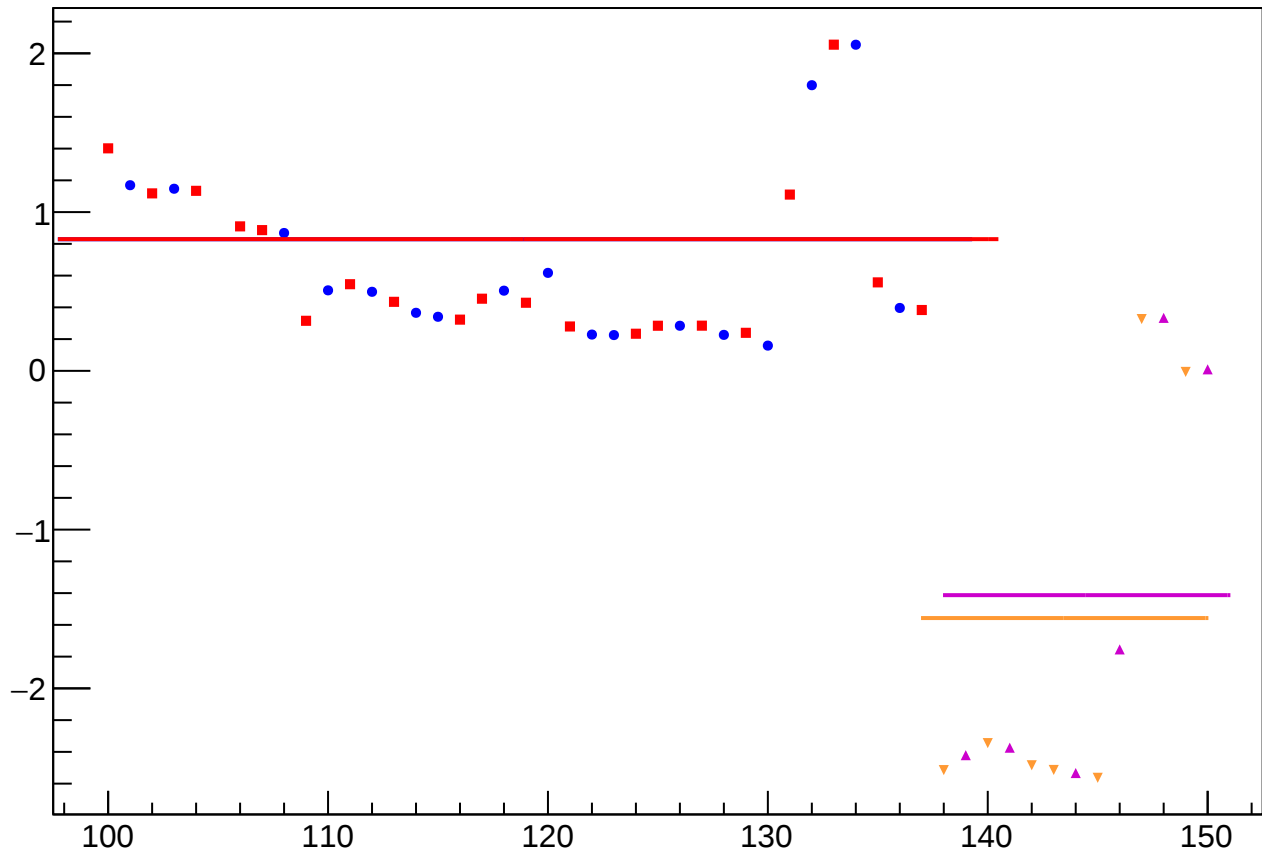
Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 222524.1/19

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:25713.7/5

0.004 $\pm$ 0.000 χ^2 /NDF: 1885134.5/23

0.004 $\pm$ 0.000 χ^2 /NDF: 2124820.4/25

yield_bpm0l05X_mean vs Slug



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -1.557+/-0.000 χ^2/NDF : 176164309483.6/6

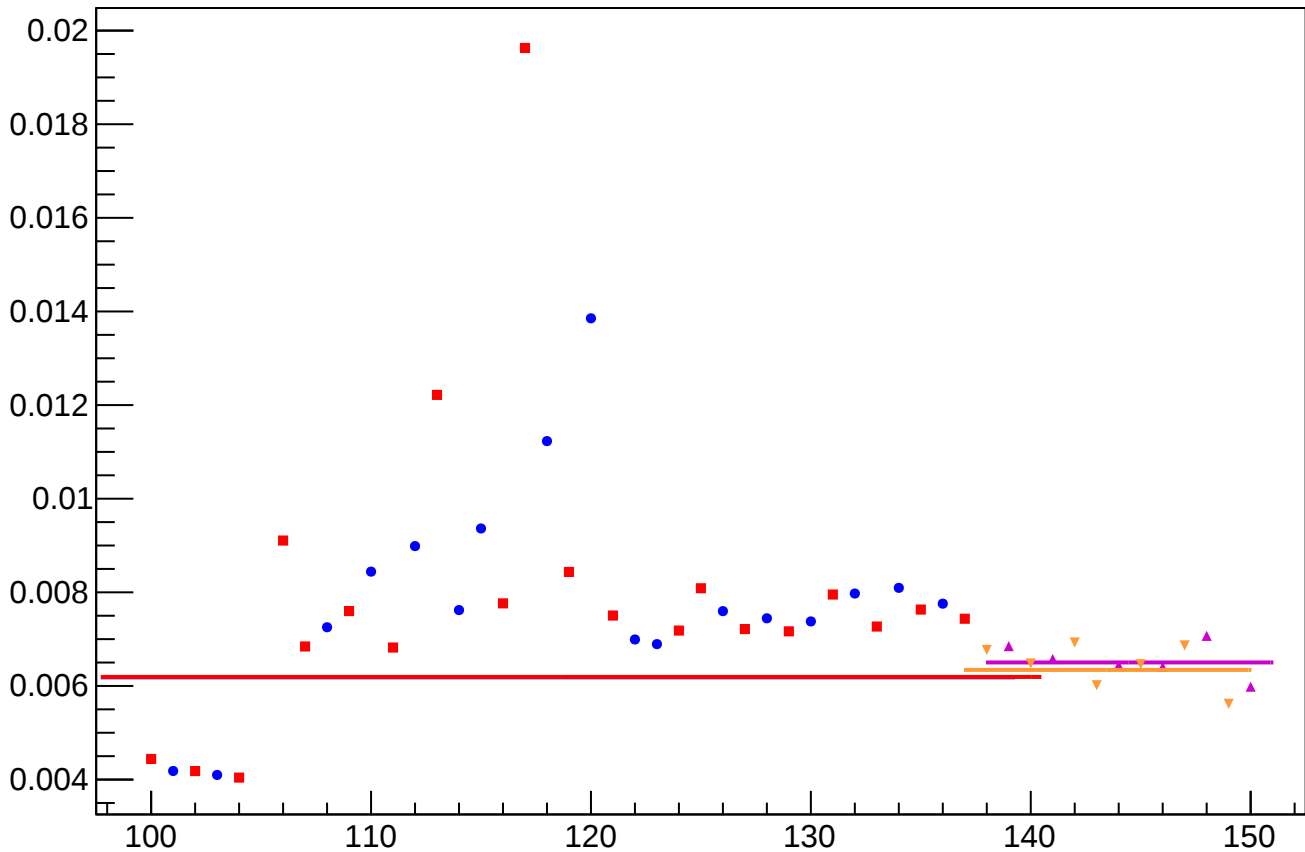
-0.238+/-0.000 χ^2/NDF : 561547321777.6/23

Right Out: 0.830+/-0.000 χ^2/NDF : 33349713412.0/19

-0.093+/-0.000 χ^2/NDF : 495857407335.4/25

Left In: -1.413+/-0.000 χ^2/NDF : 148127658451.4/5

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 :49359.5/6

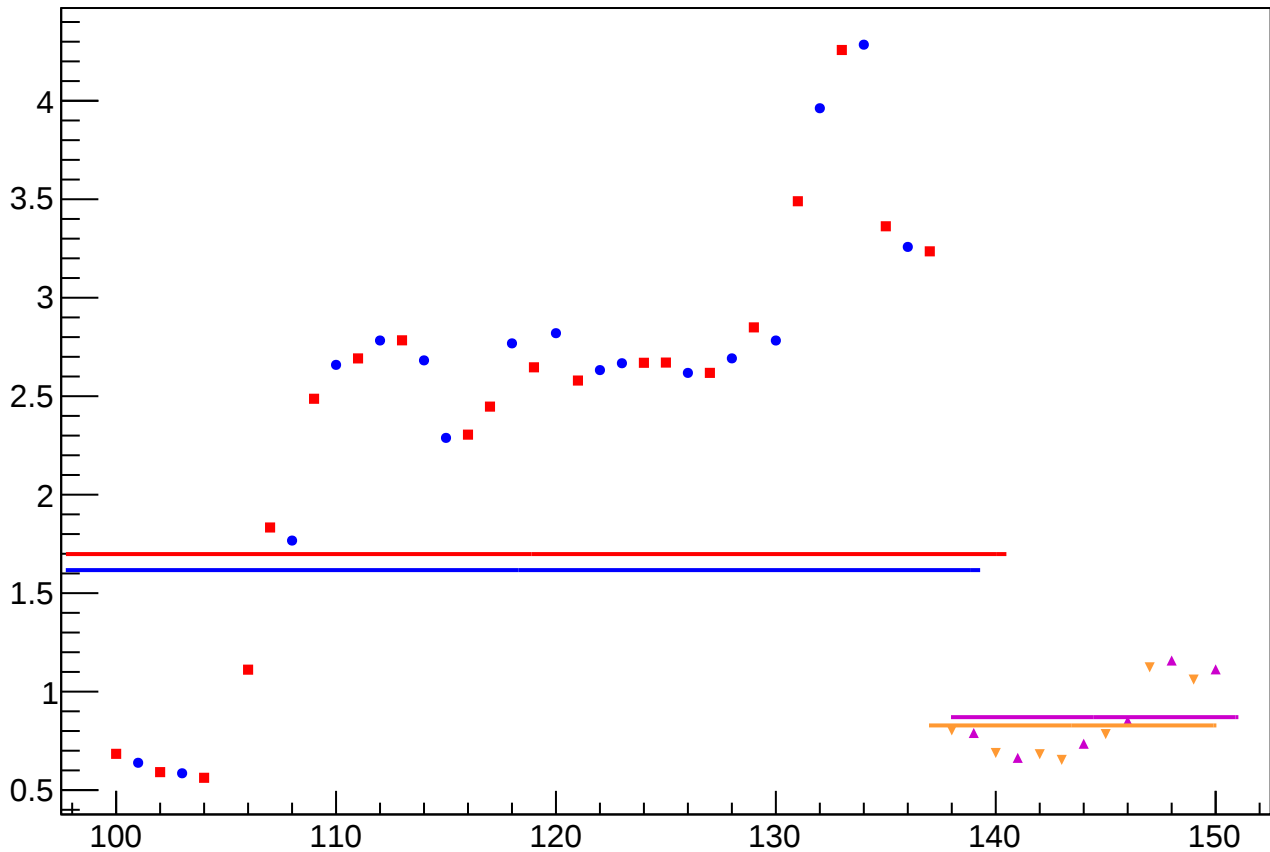
Right Out: 0.006+/-0.000 χ^2/NDF : 1062886.2/19

Left In: 0.007+/-0.000 χ^2/NDF :25632.0/5

0.006+/-0.000 χ^2/NDF : 1281408.9/23

0.006+/-0.000 χ^2/NDF : 1100521.3/25

yield_bpm0l05Y_mean vs Slug



Right In: 1.617 $\pm$ 0.000 χ^2 /NDF: 202886791000.7/16

Left Out: 0.828 $\pm$ 0.000 χ^2 /NDF: 3159634449.6/6

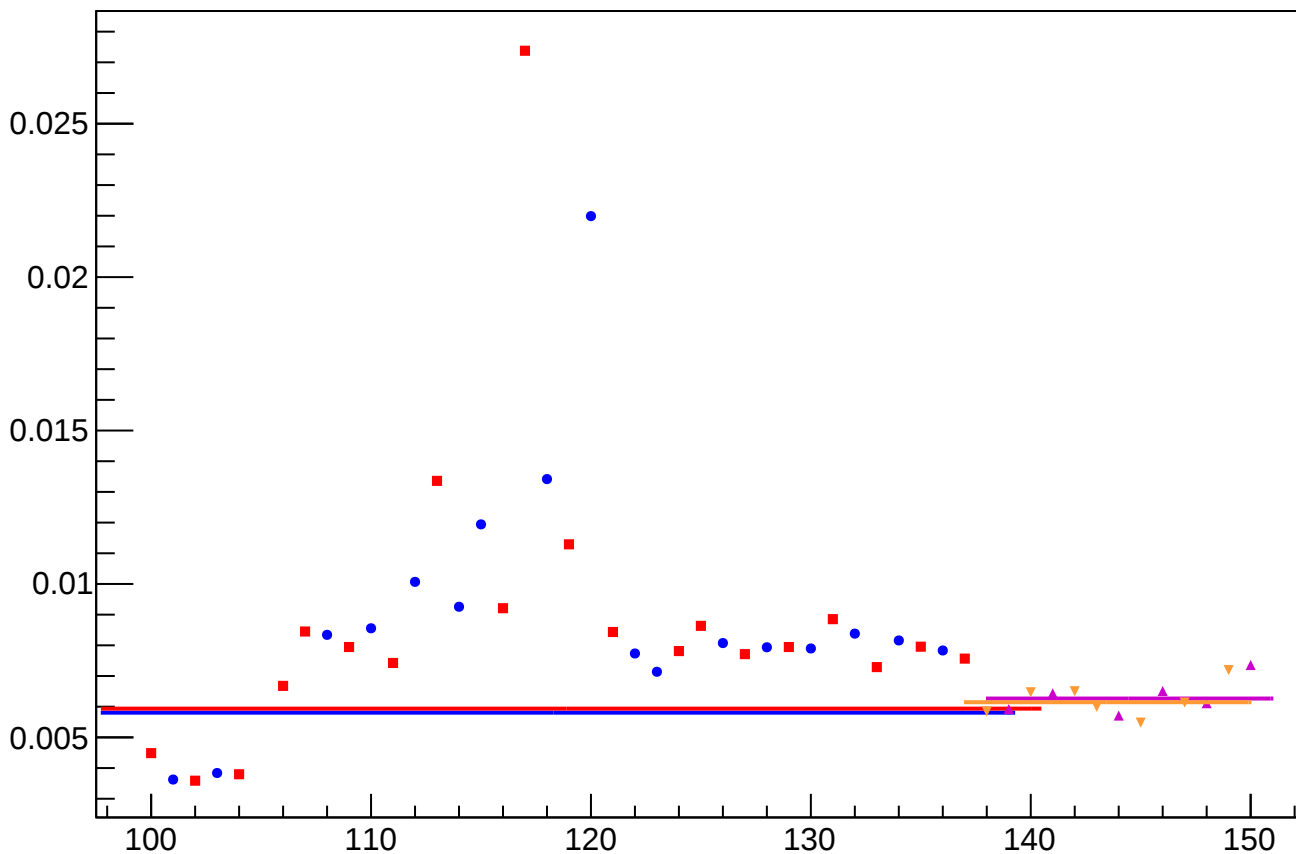
1.277 $\pm$ 0.000 χ^2 /NDF: 244484628206.9/23

Right Out: 1.698 $\pm$ 0.000 χ^2 /NDF: 227436227264.4/19

1.362 $\pm$ 0.000 χ^2 /NDF: 273496146083.4/25

Left In: 0.870 $\pm$ 0.000 χ^2 /NDF: 3625663921.2/5

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 : 56217.7/6

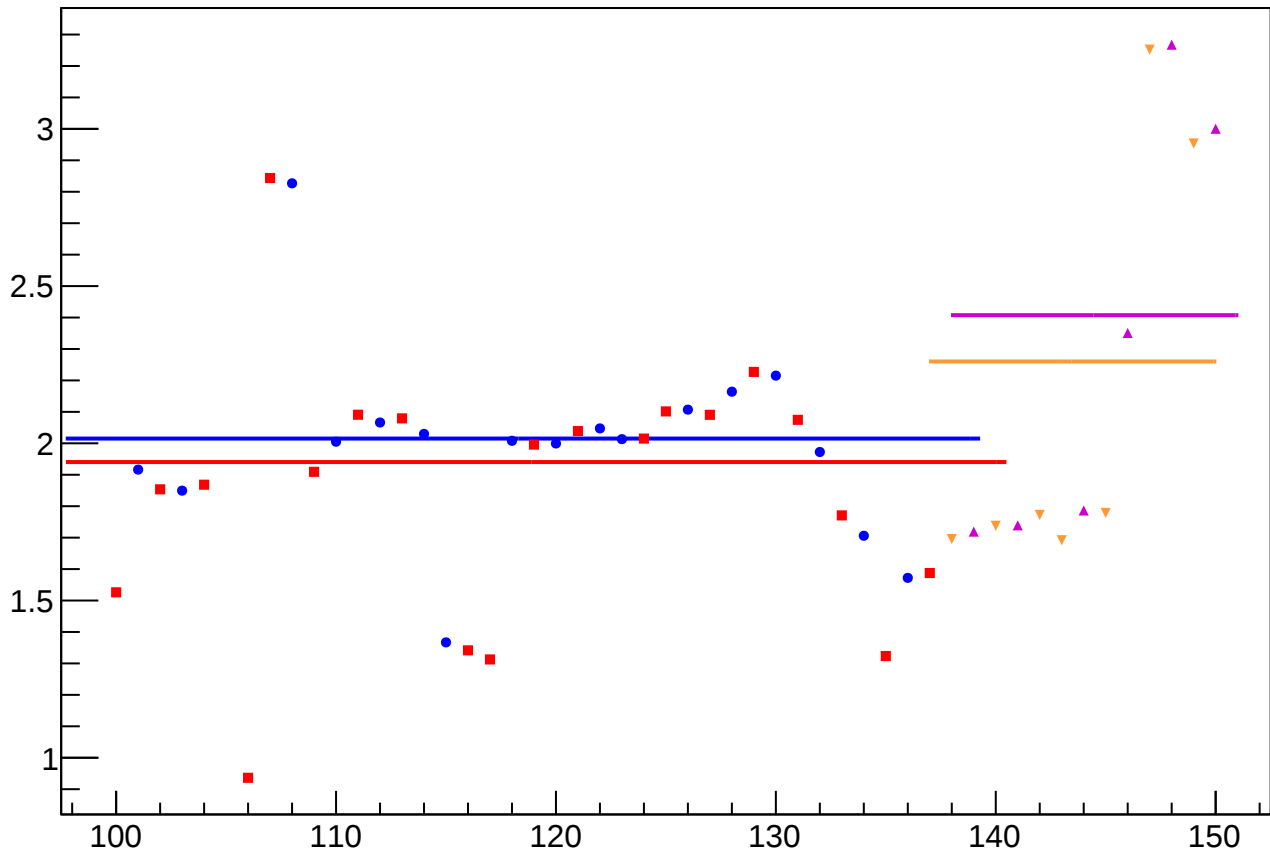
Right Out: 0.006+/-0.000 χ^2/NDF : 1731283.0/19

Left In: 0.006+/-0.000 χ^2/NDF : 53948.3/5

0.006+/-0.000 χ^2/NDF : 1988564.3/23

0.006+/-0.000 χ^2/NDF : 1798601.7/25

yield_bpm0l06X_mean vs Slug



Right In: 2.015 $\pm$ 0.000 χ^2 /NDF: 12228403202.6/16

Left Out: 2.260 $\pm$ 0.000 χ^2 /NDF: 34341979118.8/6

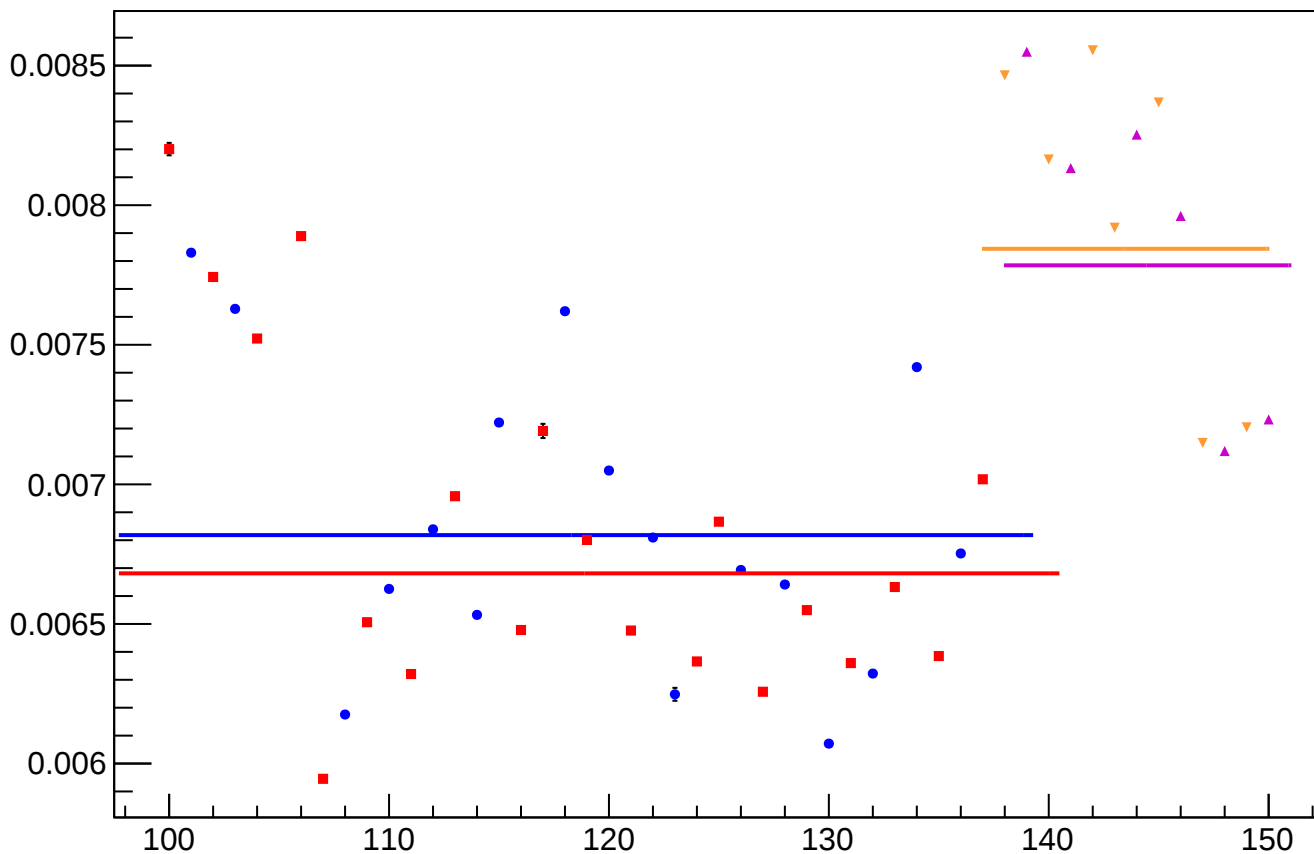
Right Out: 1.940 $\pm$ 0.000 χ^2 /NDF: 21732099424.5/19

Left In: 2.408 $\pm$ 0.000 χ^2 /NDF: 31315145679.9/5

2.103 $\pm$ 0.000 χ^2 /NDF: 49502519837.4/23

2.096 $\pm$ 0.000 χ^2 /NDF: 64173274324.1/25

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 : 46949.3/6

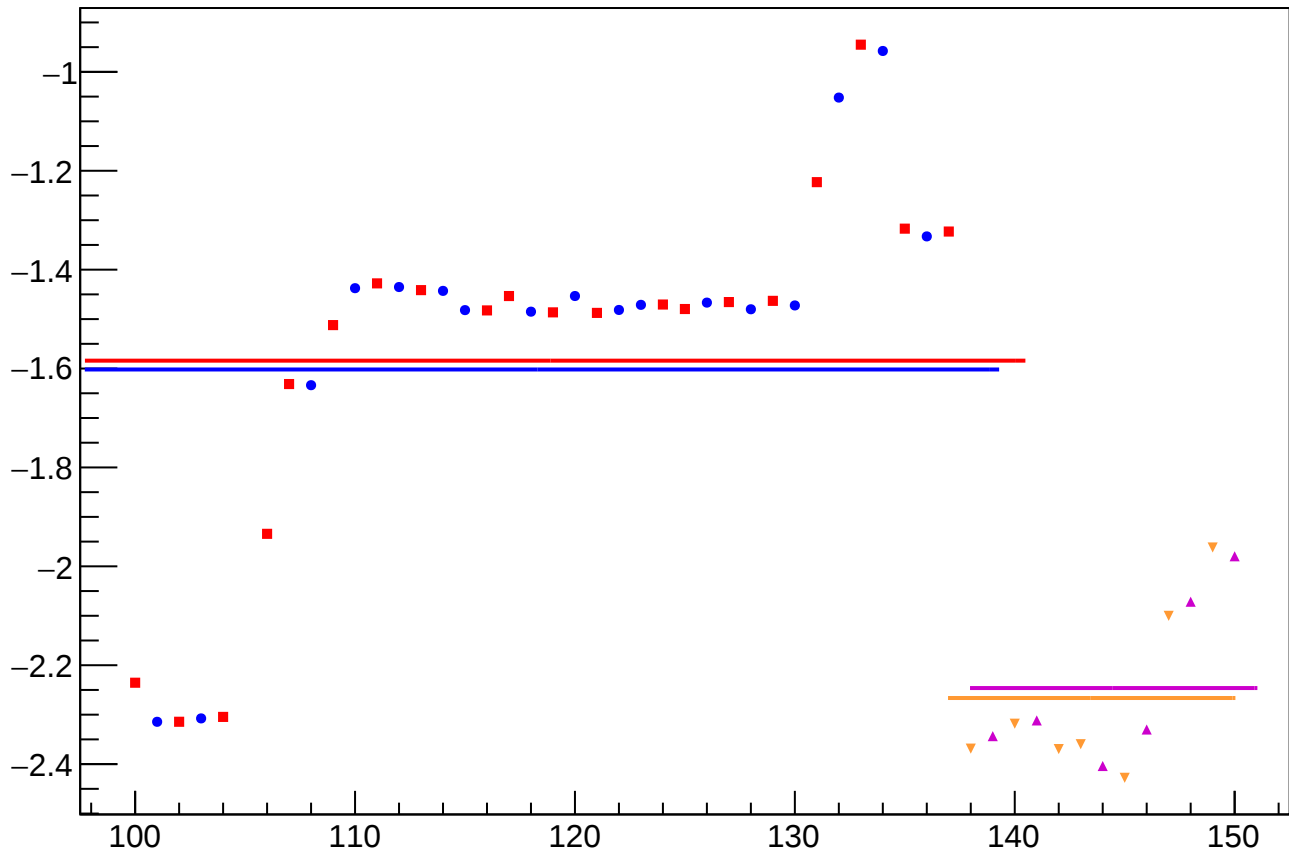
Right Out: 0.007+/-0.000 χ^2/NDF : 76121.2/19

Left In: 0.008+/-0.000 χ^2/NDF : 42558.4/5

0.007+/-0.000 χ^2/NDF : 225376.7/23

0.007+/-0.000 χ^2/NDF : 242805.1/25

yield_bpm0l06Y_mean vs Slug



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -2.266+/-0.000 χ^2/NDF : 14212056479.8/6

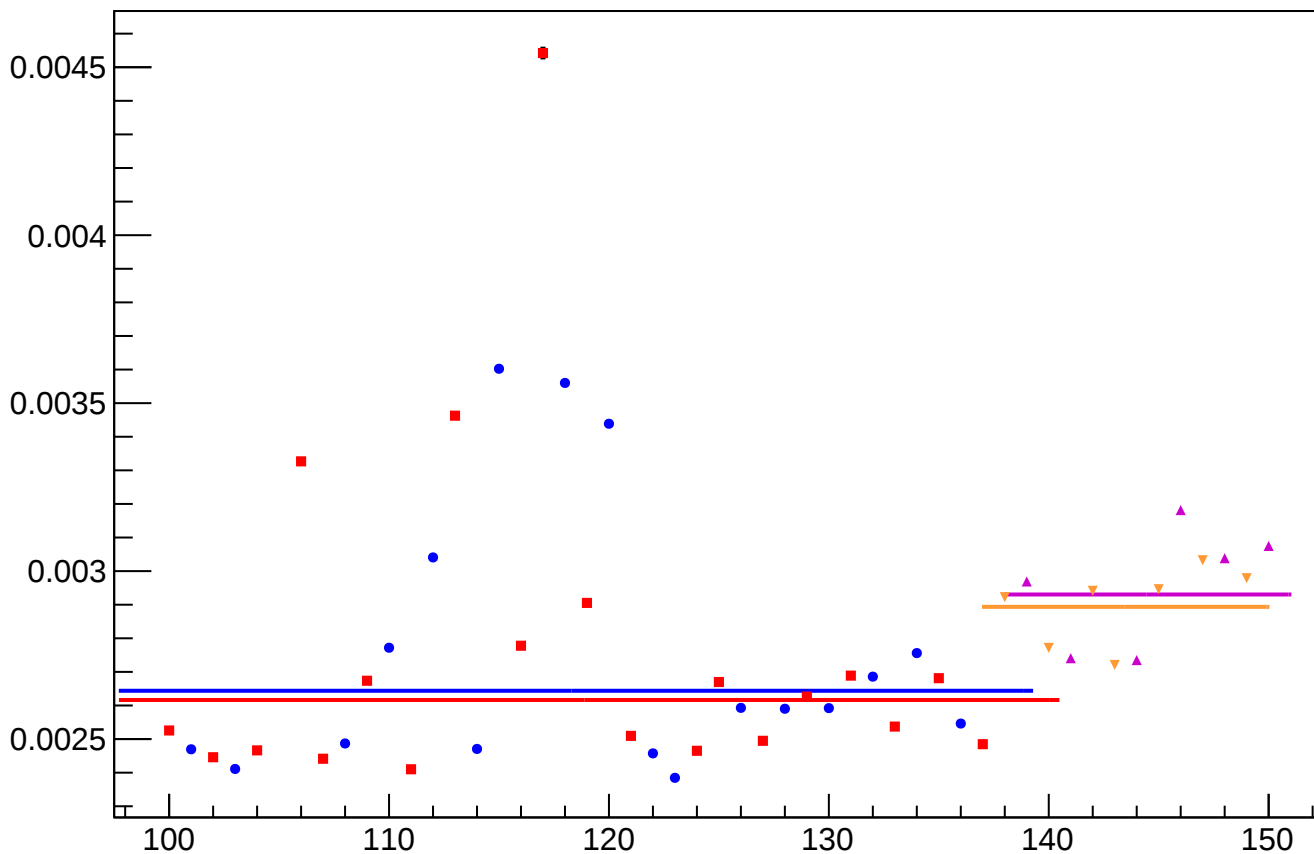
-1.852+/-0.000 χ^2/NDF : 303541099154.2/23

Right Out: -1.584+/-0.000 χ^2/NDF : 143612120137.8/19

-1.814+/-0.000 χ^2/NDF : 305985014216.3/25

Left In: -2.246+/-0.000 χ^2/NDF : 12796369626.8/5

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 :12810.3/6

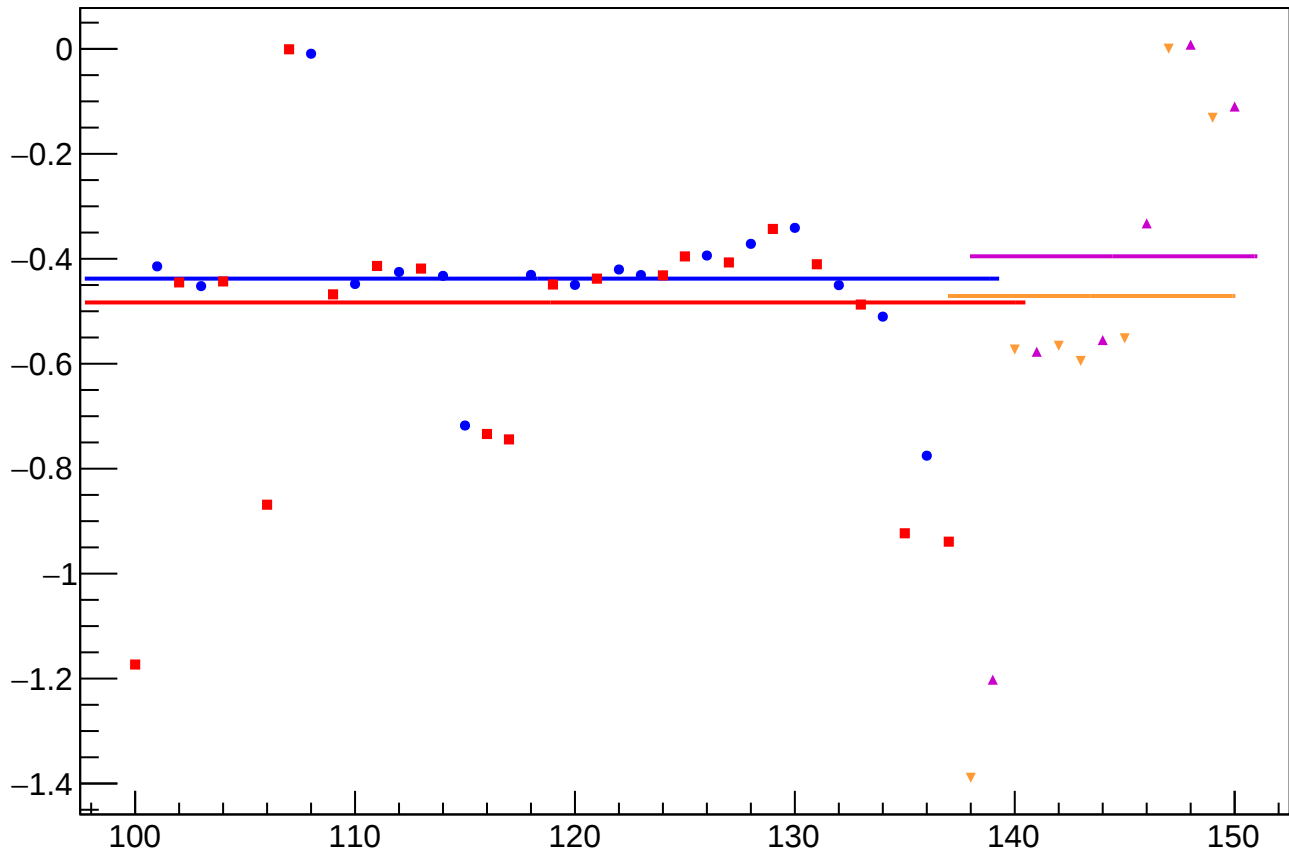
Right Out: 0.003+/-0.000 χ^2/NDF : 119852.1/19

Left In: 0.003+/-0.000 χ^2/NDF :30398.7/5

0.003+/-0.000 χ^2/NDF : 206346.7/23

0.003+/-0.000 χ^2/NDF : 217531.5/25

yield_bpm0l07X_mean vs Slug



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.471+/-0.000 χ^2/NDF : 4695904043.5/6

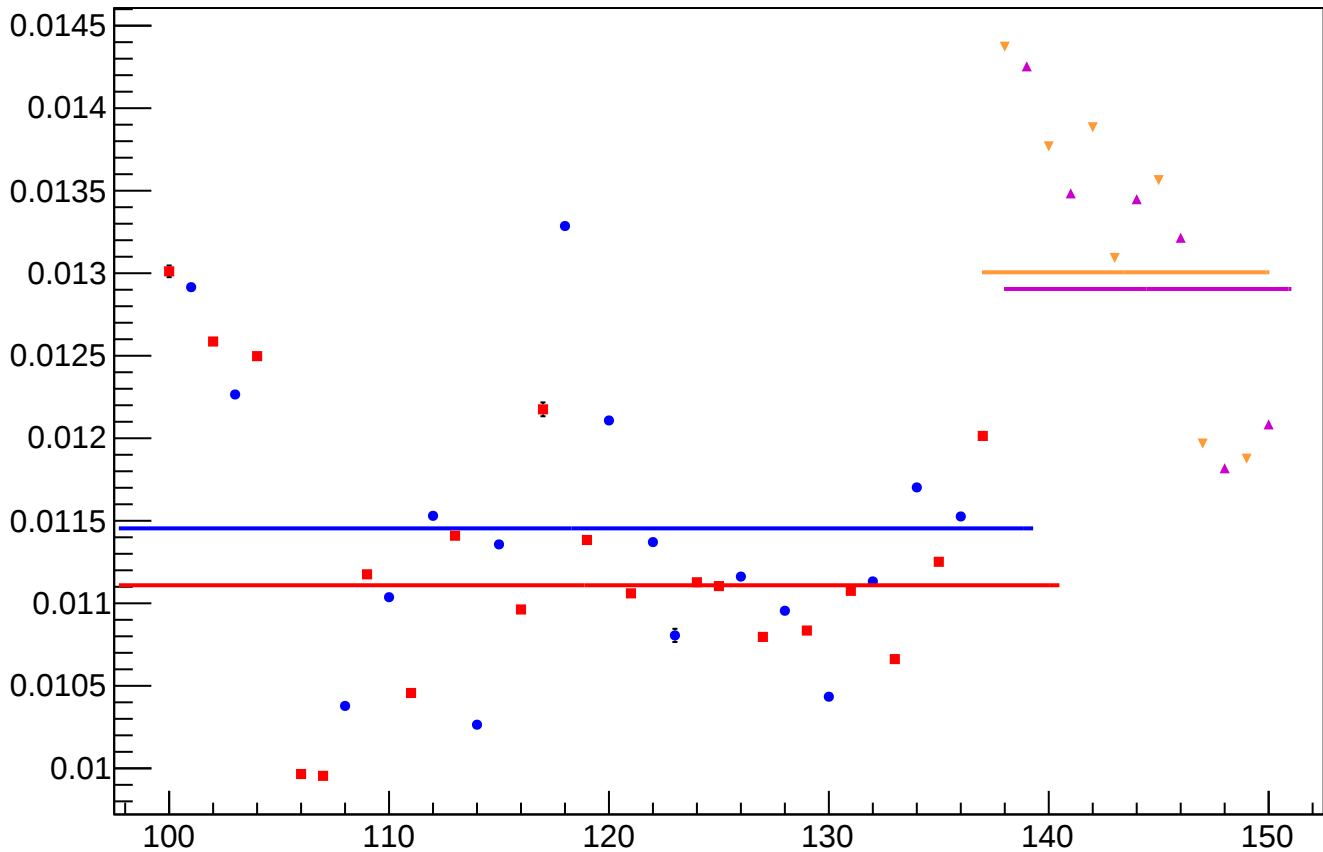
-0.450+/-0.000 χ^2/NDF : 6177683848.6/23

Right Out: -0.483+/-0.000 χ^2/NDF : 2714164016.2/19

-0.454+/-0.000 χ^2/NDF : 6583026323.7/25

Left In: -0.395+/-0.000 χ^2/NDF : 3725574863.0/5

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 : 47715.3/6

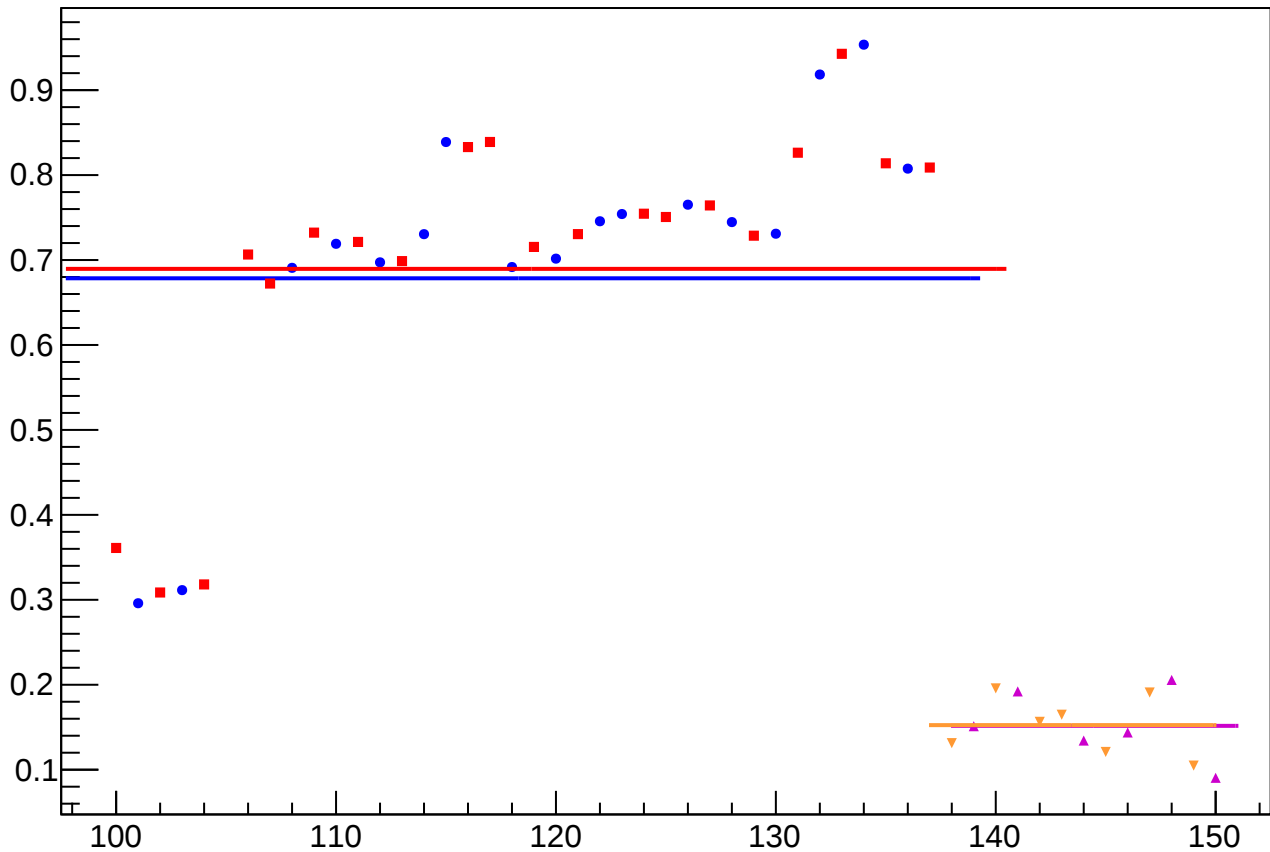
Right Out: 0.011+/-0.000 χ^2/NDF : 56696.9/19

Left In: 0.013+/-0.000 χ^2/NDF : 38752.6/5

0.012+/-0.000 χ^2/NDF : 197361.1/23

0.012+/-0.000 χ^2/NDF : 214754.3/25

yield_bpm0l07Y_mean vs Slug



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38506442638.3/16

Left Out: 0.152 $\pm$ 0.000 χ^2 /NDF:1197456475.6/6

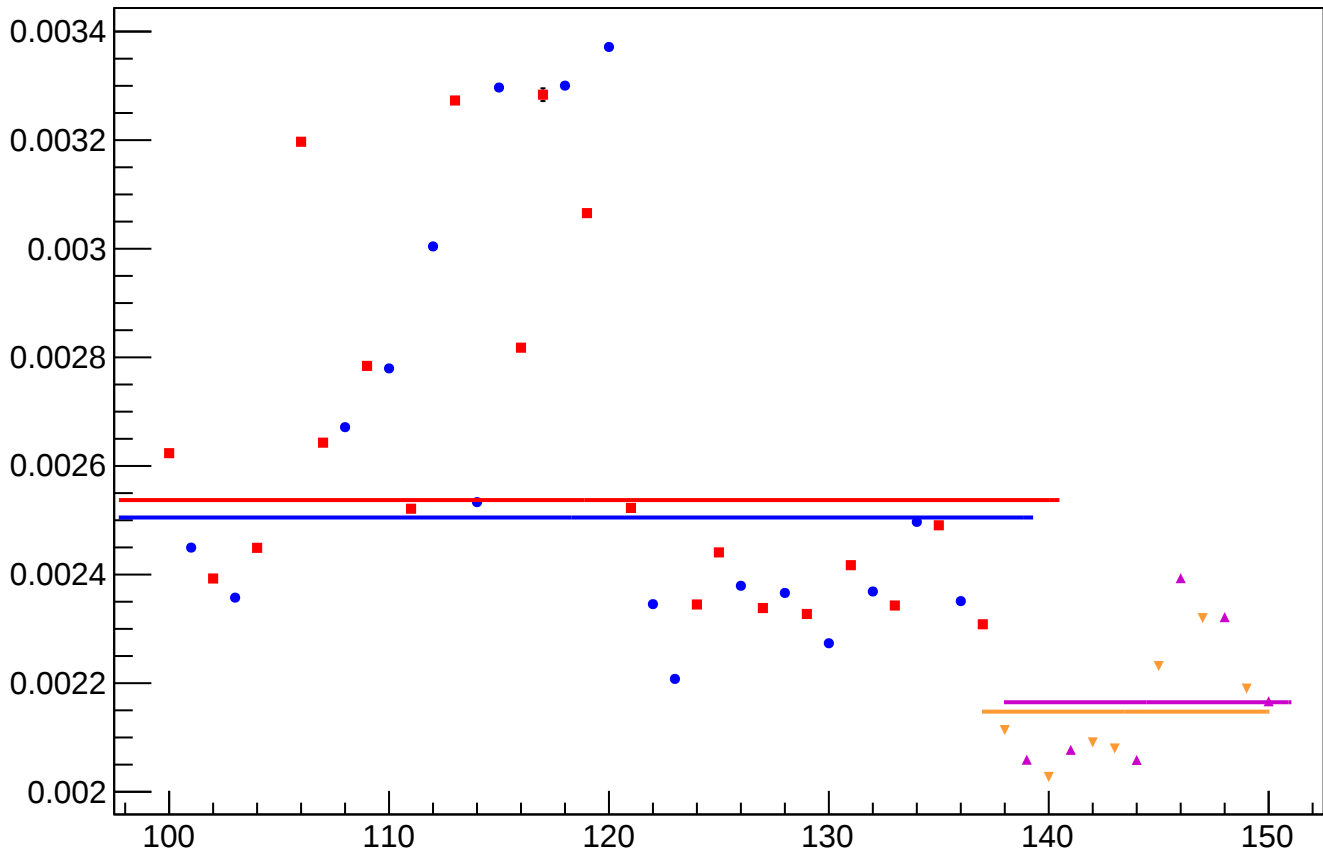
0.409 $\pm$ 0.000 χ^2 /NDF: 183599048423.0/23

Right Out: 0.690 $\pm$ 0.000 χ^2 /NDF: 35439496983.3/19

0.424 $\pm$ 0.000 χ^2 /NDF: 186748505578.3/25

Left In: 0.152 $\pm$ 0.000 χ^2 /NDF:1503189536.0/5

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 :19237.8/6

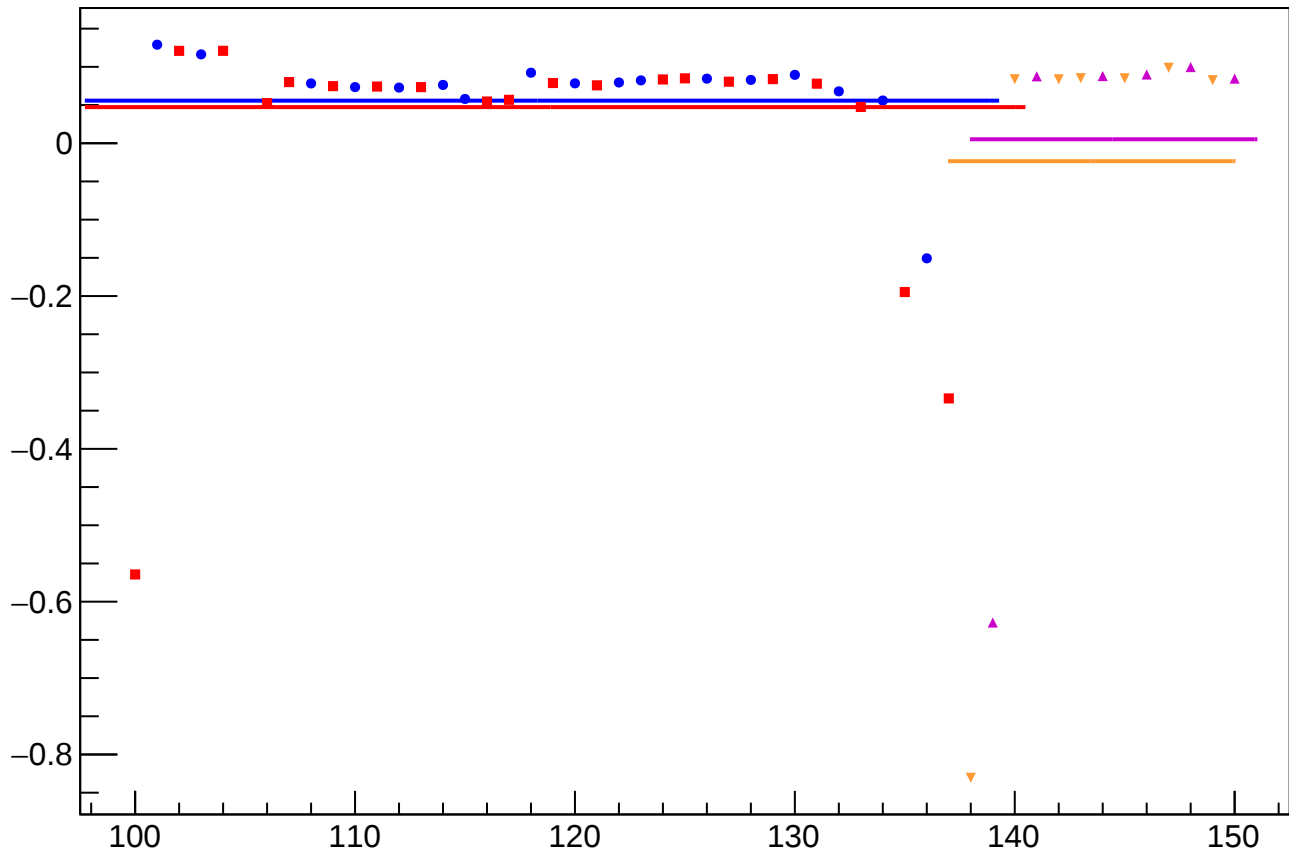
Right Out: 0.003+/-0.000 χ^2/NDF : 135649.7/19

Left In: 0.002+/-0.000 χ^2/NDF :32849.5/5

0.002+/-0.000 χ^2/NDF : 327716.7/23

0.002+/-0.000 χ^2/NDF : 311981.0/25

yield_bpm0l08X_mean vs Slug



Right In: 0.056+/-0.000 χ^2/NDF : 423003688.1/16

Left Out: -0.023+/-0.000 χ^2/NDF : 2997410199.0/6

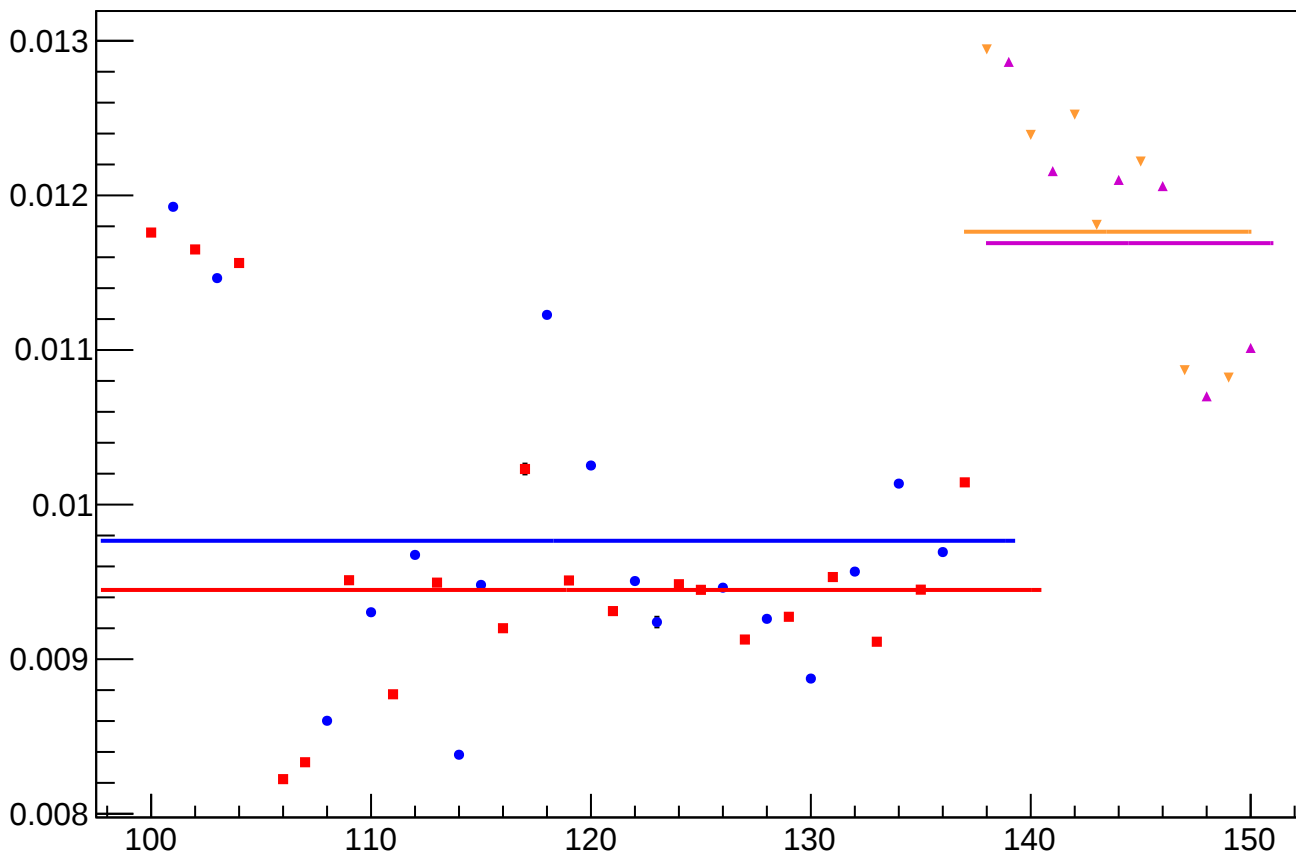
Right Out: 0.047+/-0.000 χ^2/NDF : 819626031.7/19

Left In: 0.005+/-0.000 χ^2/NDF : 1799187696.0/5

0.029+/-0.000 χ^2/NDF : 3561081676.4/23

0.035+/-0.000 χ^2/NDF : 2660284724.2/25

yield_bpm0l08X_rms vs Slug



Right In: 0.010 ± 0.000 $\chi^2/\text{NDF}: 116638.3/16$

Left Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 41958.2/6$

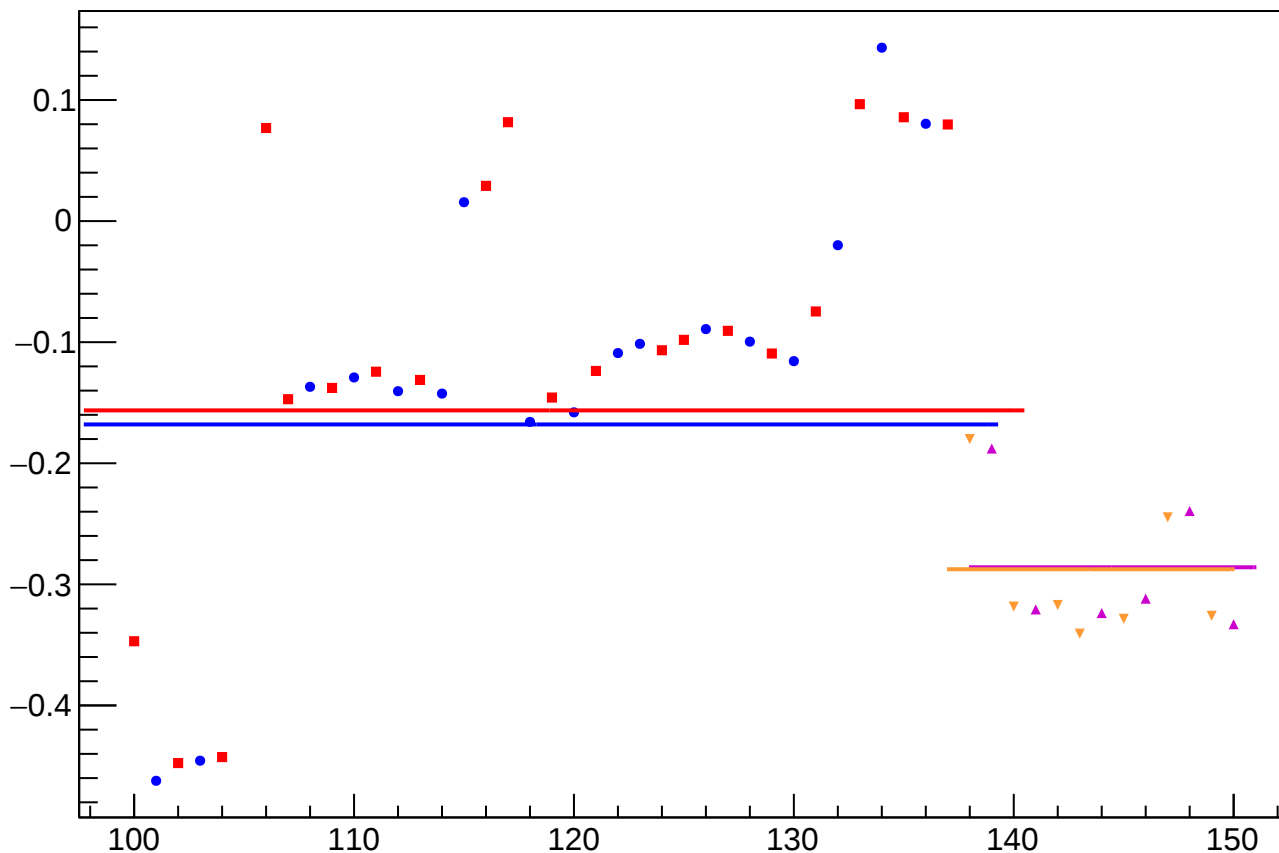
Right Out: 0.009 ± 0.000 $\chi^2/\text{NDF}: 111197.0/19$

Left In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 35924.6/5$

0.010 ± 0.000 $\chi^2/\text{NDF}: 337783.7/23$

0.010 ± 0.000 $\chi^2/\text{NDF}: 382745.9/25$

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 : 1771705039.2/6

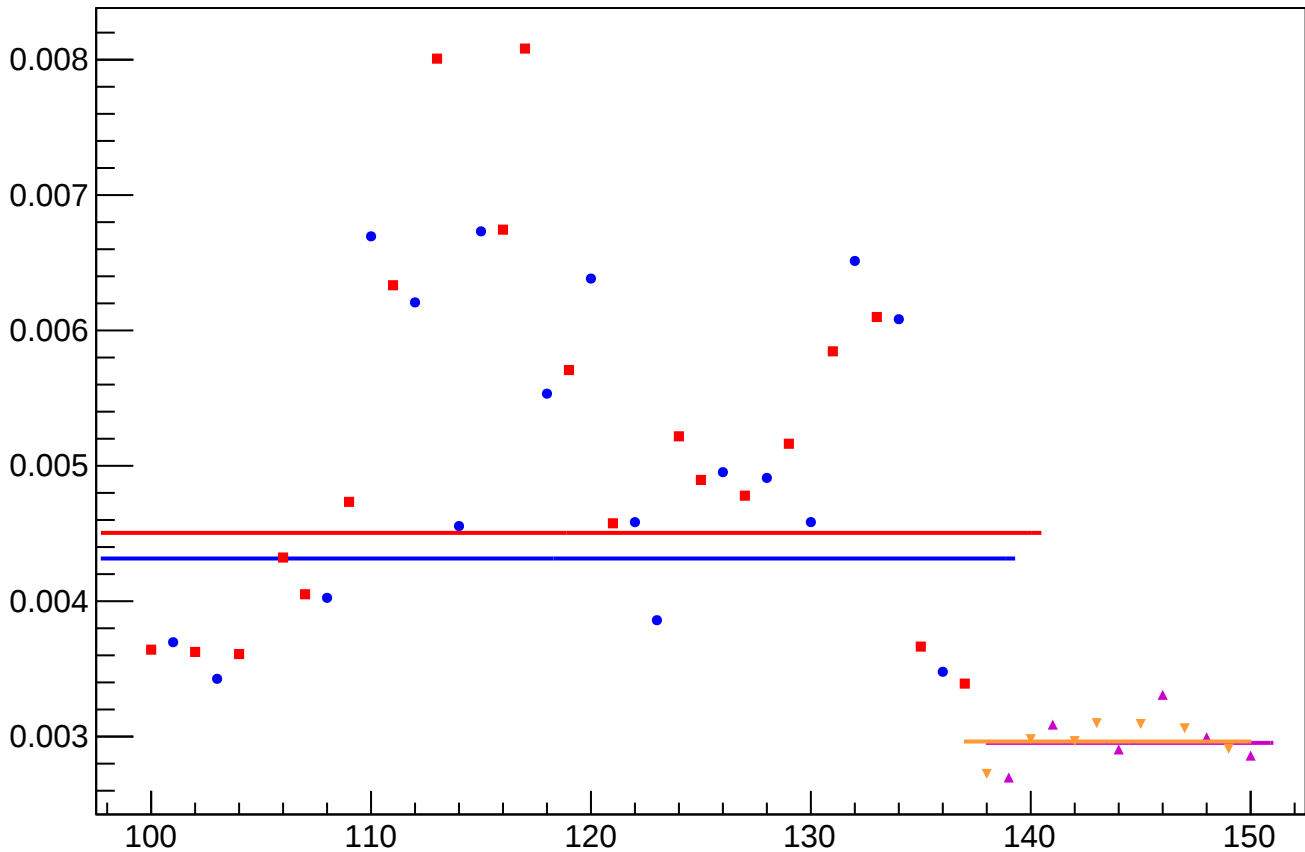
Right Out: -0.156+/-0.000 χ^2/NDF : 11061140252.3/19

Left In: -0.286+/-0.000 χ^2/NDF : 1557697899.8/5

-0.243+/-0.000 χ^2/NDF : 16896427475.0/23

-0.238+/-0.000 χ^2/NDF : 15859632439.5/25

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 :17527.7/6

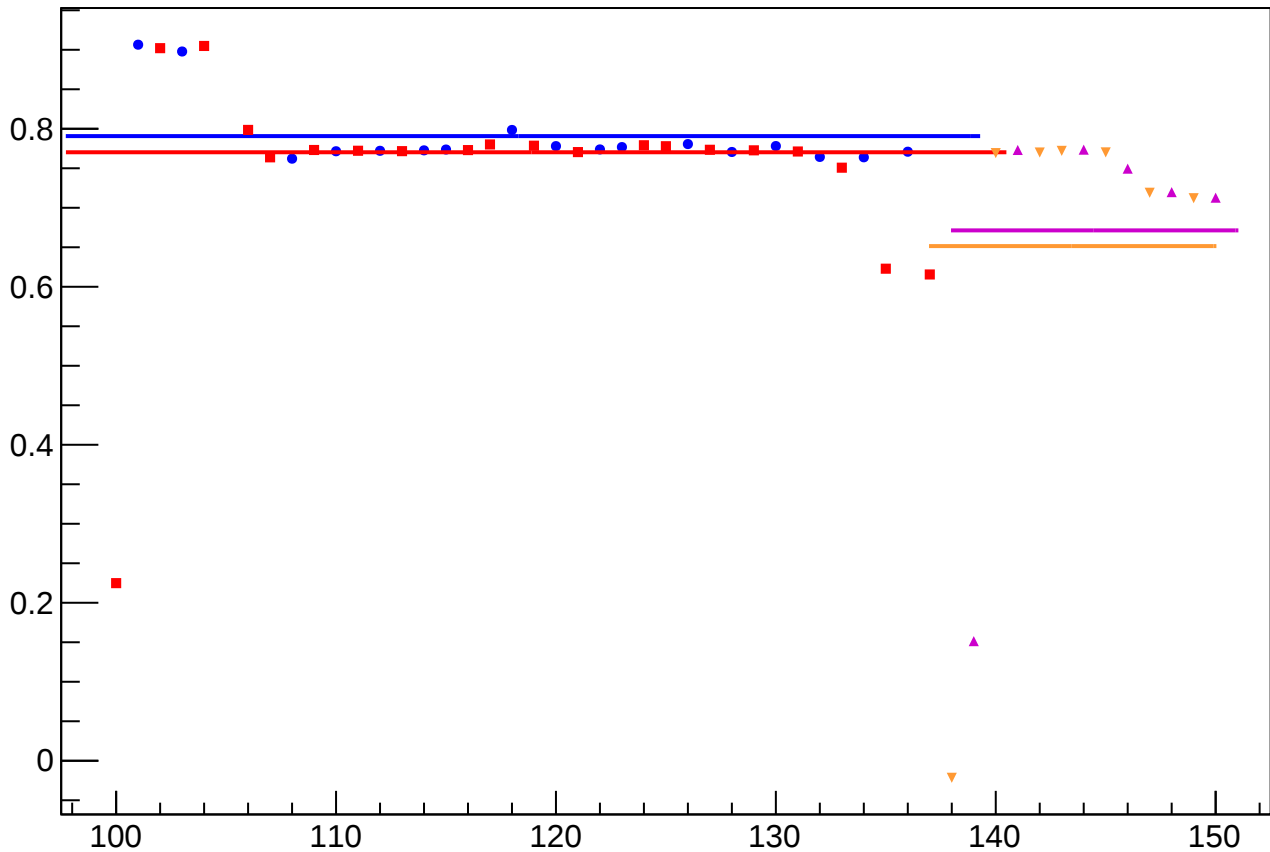
Right Out: 0.005+/-0.000 χ^2/NDF : 665152.6/19

Left In: 0.003+/-0.000 χ^2/NDF :33672.7/5

0.003+/-0.000 χ^2/NDF : 1350923.0/23

0.004+/-0.000 χ^2/NDF : 1627917.0/25

yield_bpm0l09X_mean vs Slug



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.651+/-0.000 χ^2/NDF : 2304025382.9/6

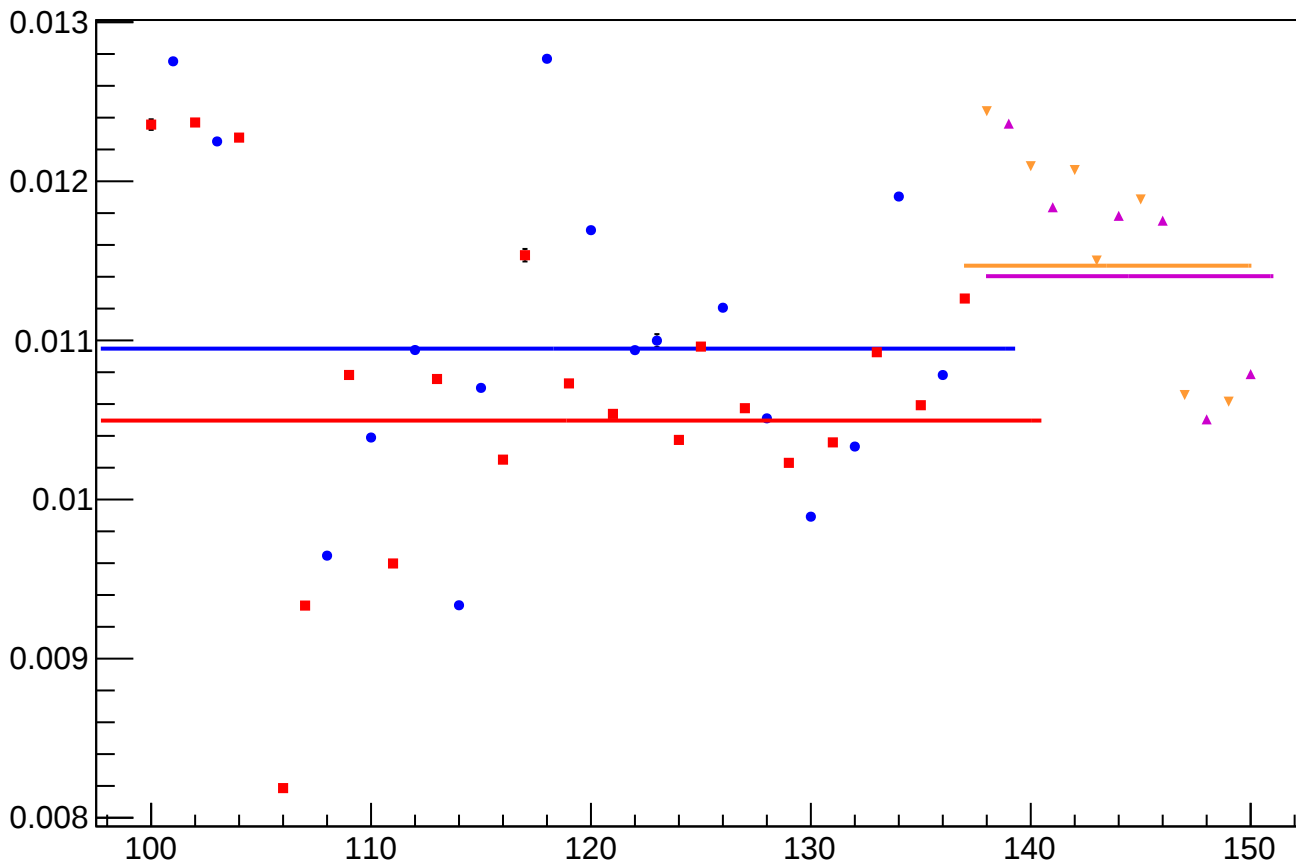
Right Out: 0.770+/-0.000 χ^2/NDF : 375473971.0/19

Left In: 0.671+/-0.000 χ^2/NDF : 1348842945.2/5

0.735+/-0.000 χ^2/NDF : 2826493916.8/23

0.735+/-0.000 χ^2/NDF : 1946437159.0/25

yield_bpm0l09X_rms vs Slug



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98551.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:34975.2/6

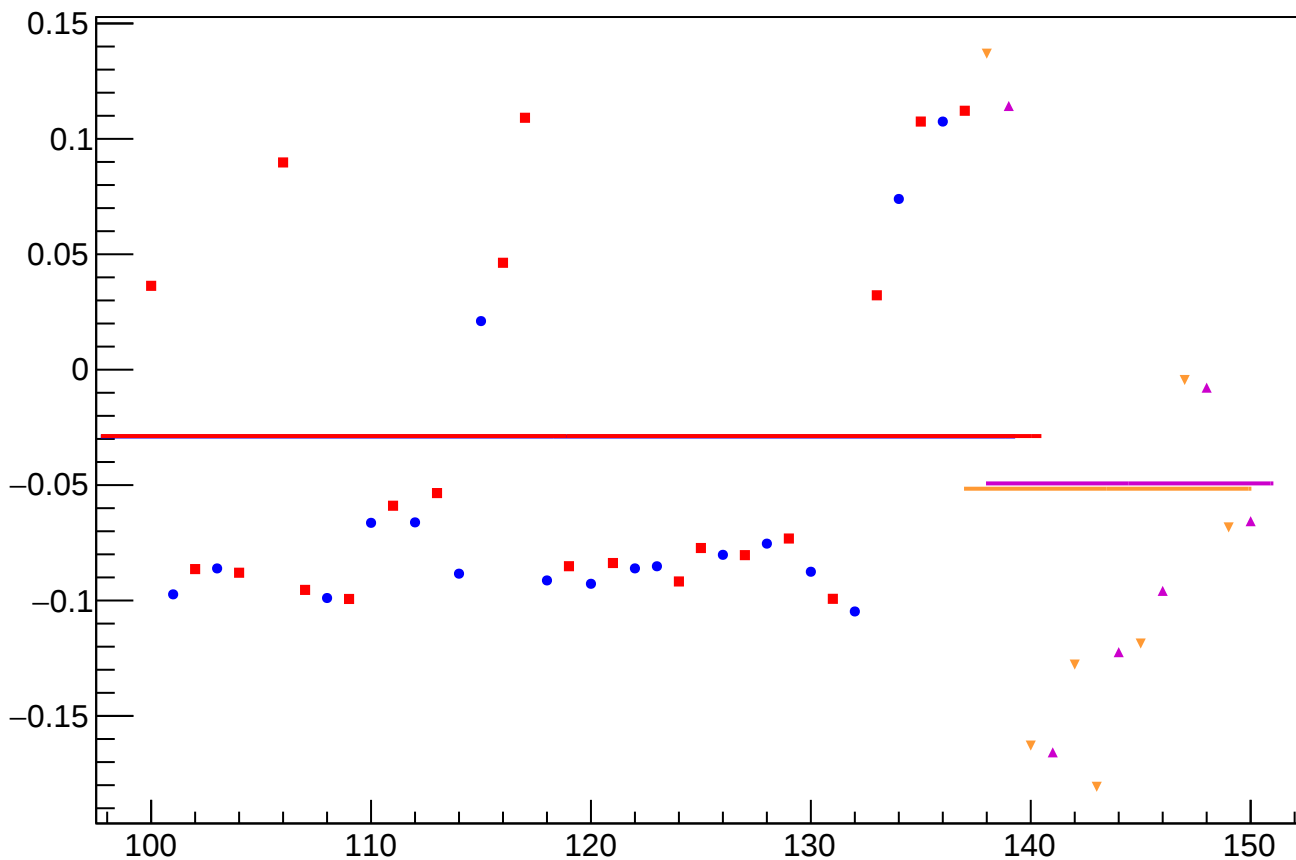
Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 120120.6/19

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:29891.9/5

0.011 $\pm$ 0.000 χ^2 /NDF: 145180.8/23

0.011 $\pm$ 0.000 χ^2 /NDF: 187419.4/25

yield_bpm0l09Y_mean vs Slug



Right In: -0.029+/-0.000 χ^2/NDF : 2445975608.2/16

Left Out: -0.052+/-0.000 χ^2/NDF : 4742554655.8/6

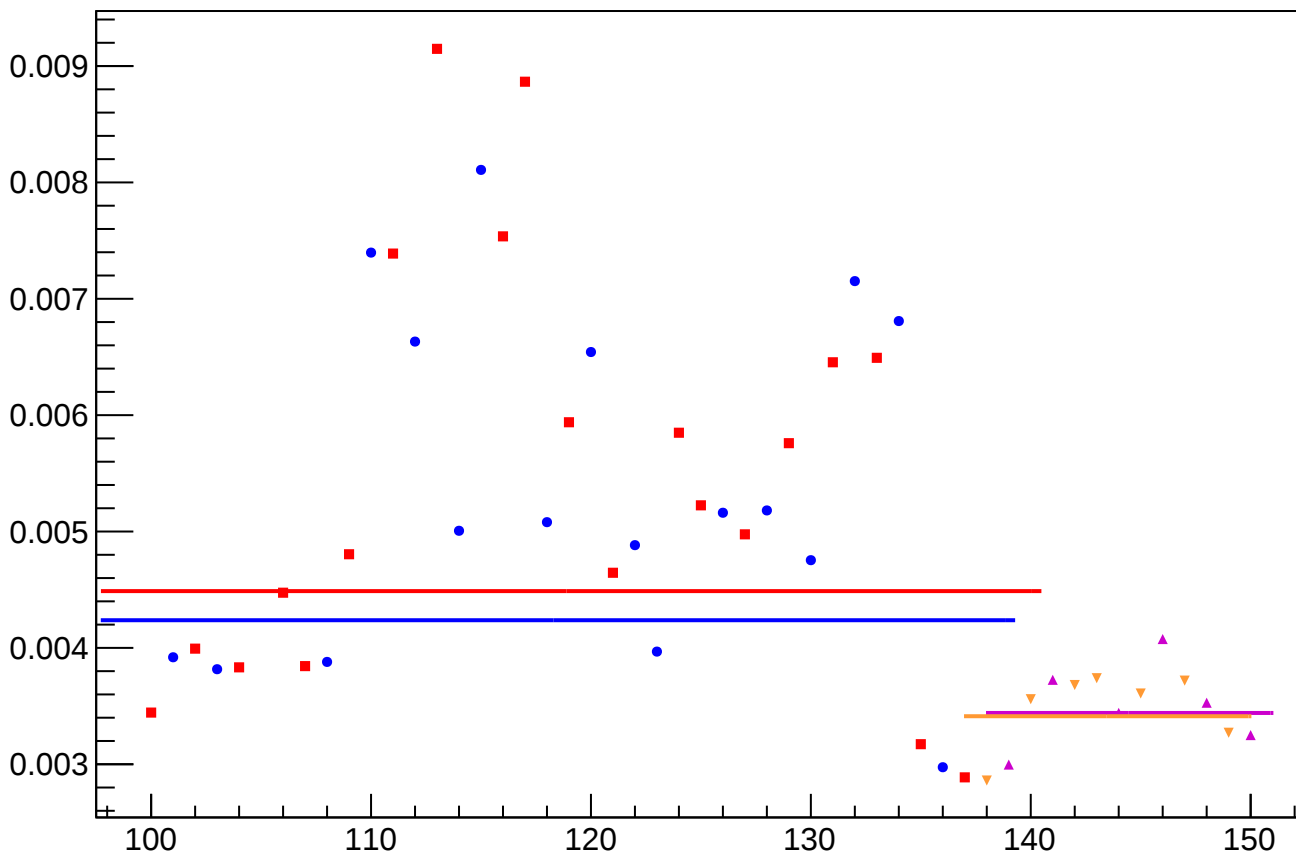
-0.041+/-0.000 χ^2/NDF : 7274840584.8/23

Right Out: -0.029+/-0.000 χ^2/NDF : 2122918772.1/19

-0.040+/-0.000 χ^2/NDF : 5386057329.4/25

Left In: -0.049+/-0.000 χ^2/NDF : 3194803225.3/5

yield_bpm0l09Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 81421.4/6

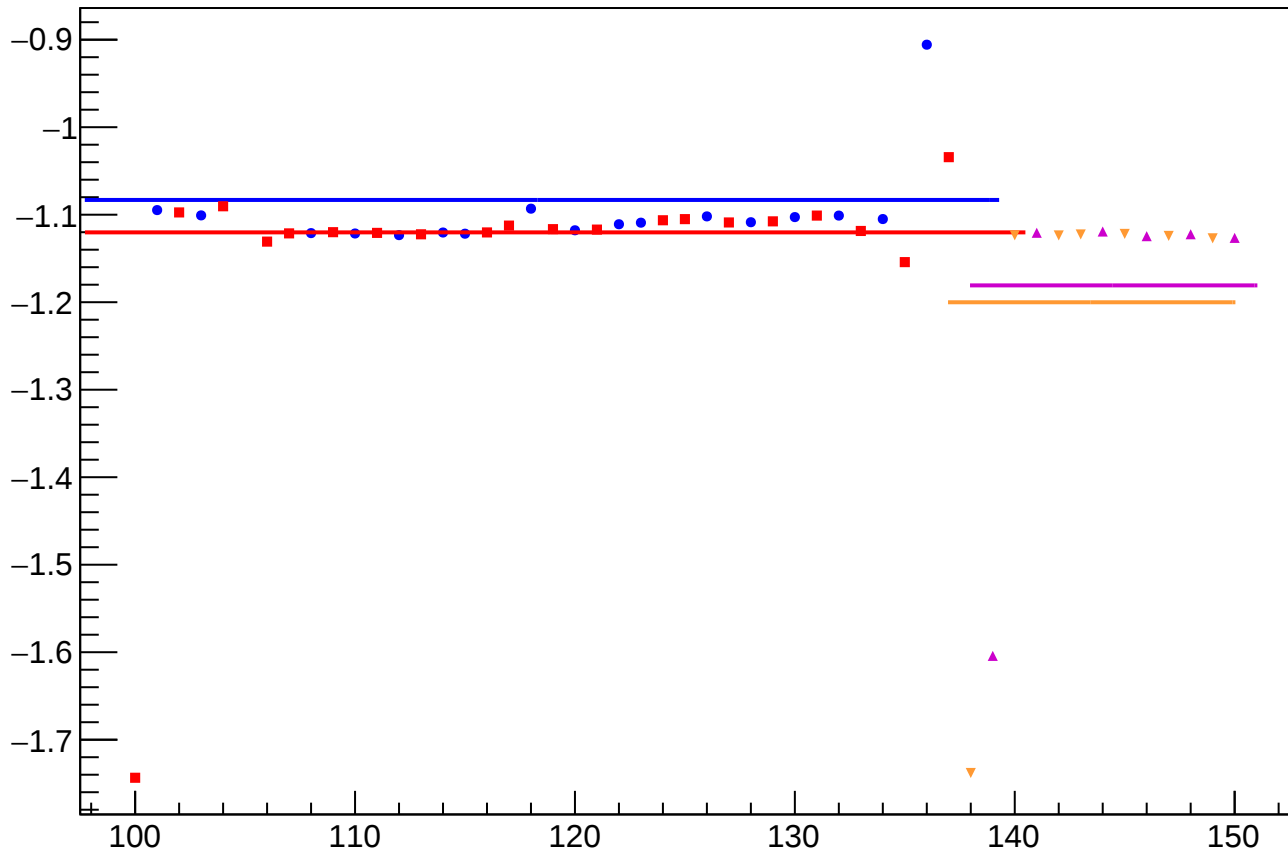
Right Out: 0.004+/-0.000 χ^2/NDF : 1003473.4/19

Left In: 0.003+/-0.000 χ^2/NDF : 75839.8/5

0.004+/-0.000 χ^2/NDF : 1192580.5/23

0.004+/-0.000 χ^2/NDF : 1435416.0/25

yield_bpm0l10X_mean vs Slug



Right In: -1.083 ± 0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.200 ± 0.000 χ^2/NDF : 1821003525.0/6

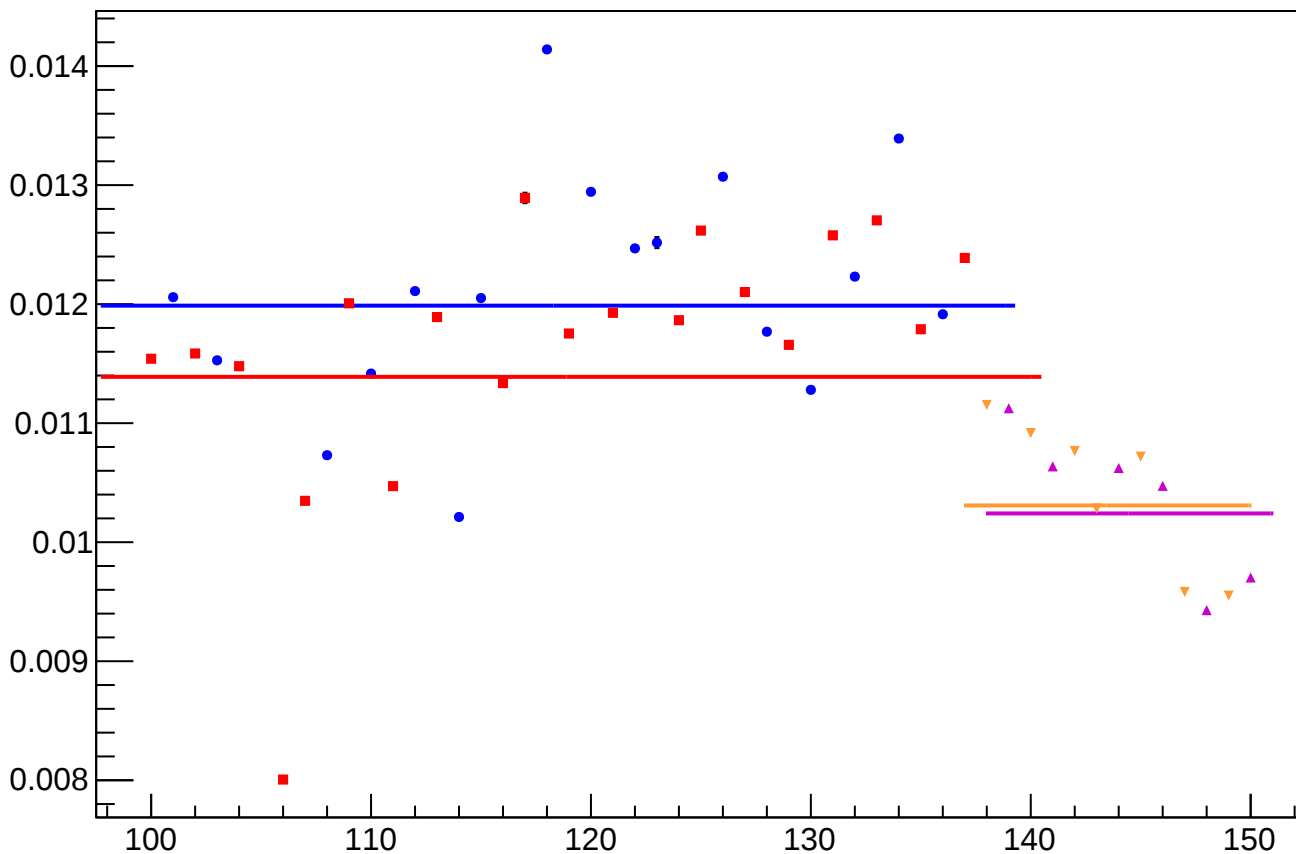
Right Out: -1.120 ± 0.000 χ^2/NDF : 220586820.0/19

Left In: -1.181 ± 0.000 χ^2/NDF : 1089854862.2/5

-1.141 ± 0.000 χ^2/NDF : 2329240480.0/23

-1.148 ± 0.000 χ^2/NDF : 1399160288.8/25

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 : 34683.2/6

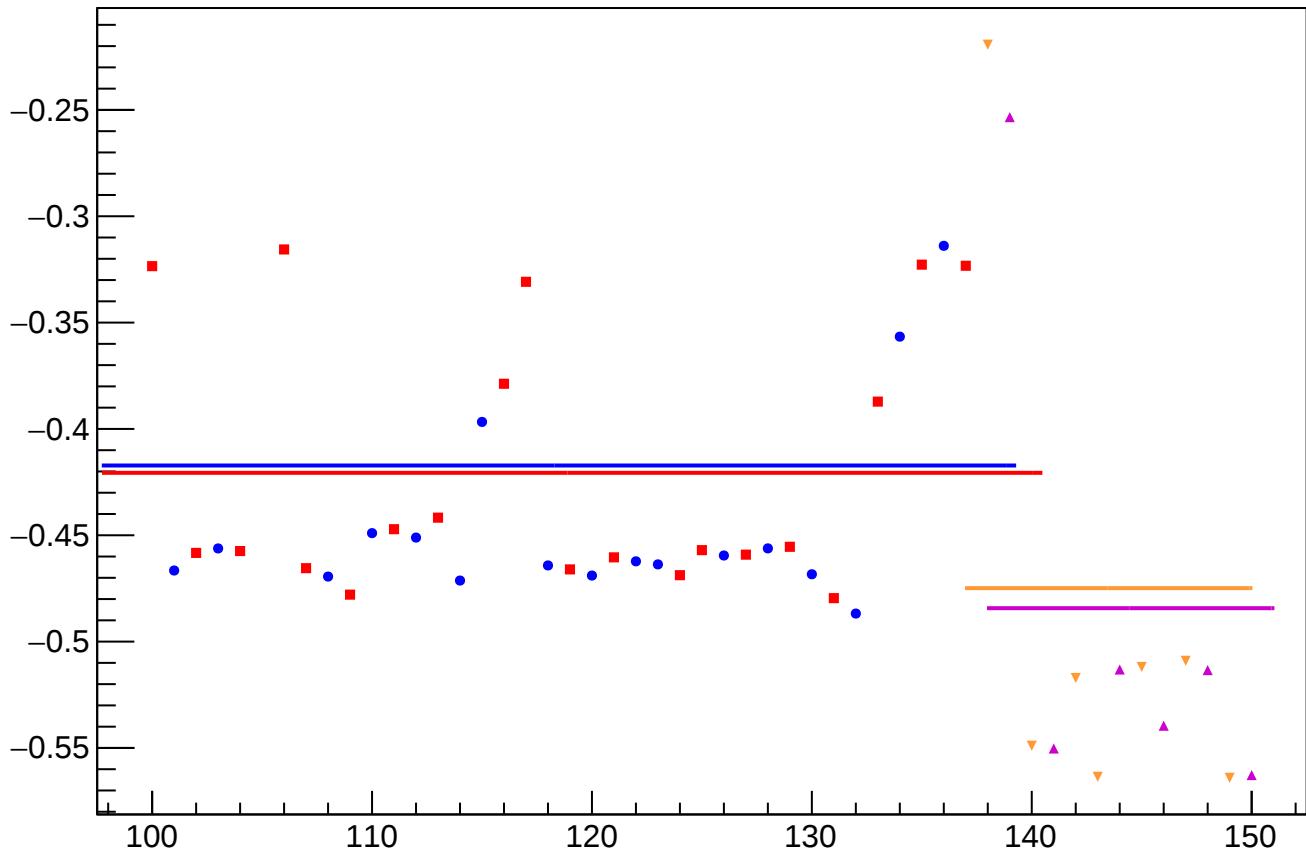
Right Out: 0.011+/-0.000 χ^2/NDF : 155700.3/19

Left In: 0.010+/-0.000 χ^2/NDF : 30211.0/5

0.011+/-0.000 χ^2/NDF : 220932.1/23

0.011+/-0.000 χ^2/NDF : 249566.6/25

yield_bpm0l10Y_mean vs Slug



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.475+/-0.000 χ^2/NDF : 5072090055.2/6

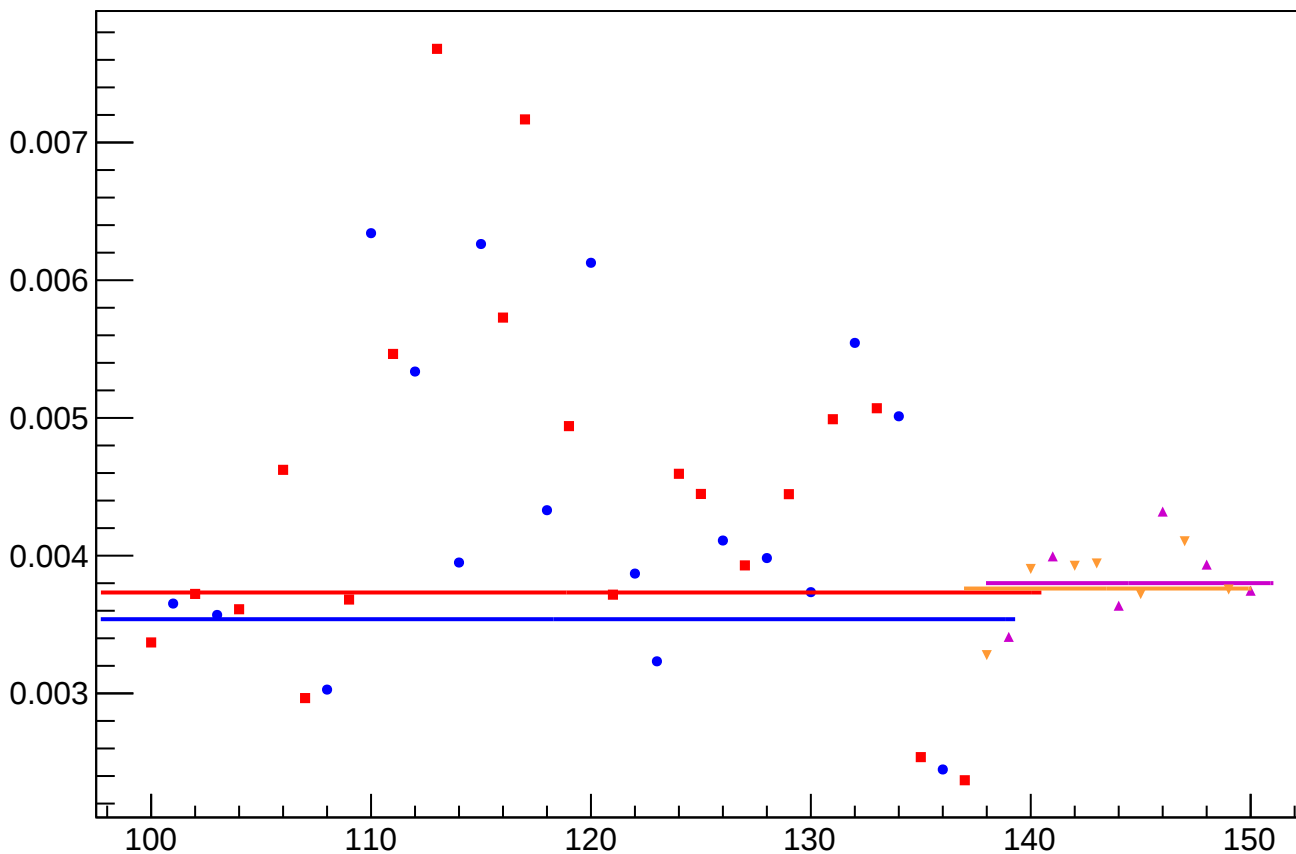
-0.441+/-0.000 χ^2/NDF : 7713516183.2/23

Right Out: -0.421+/-0.000 χ^2/NDF : 1652792044.5/19

-0.447+/-0.000 χ^2/NDF : 6008546101.5/25

Left In: -0.484+/-0.000 χ^2/NDF : 3646446433.2/5

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:44256.6/6

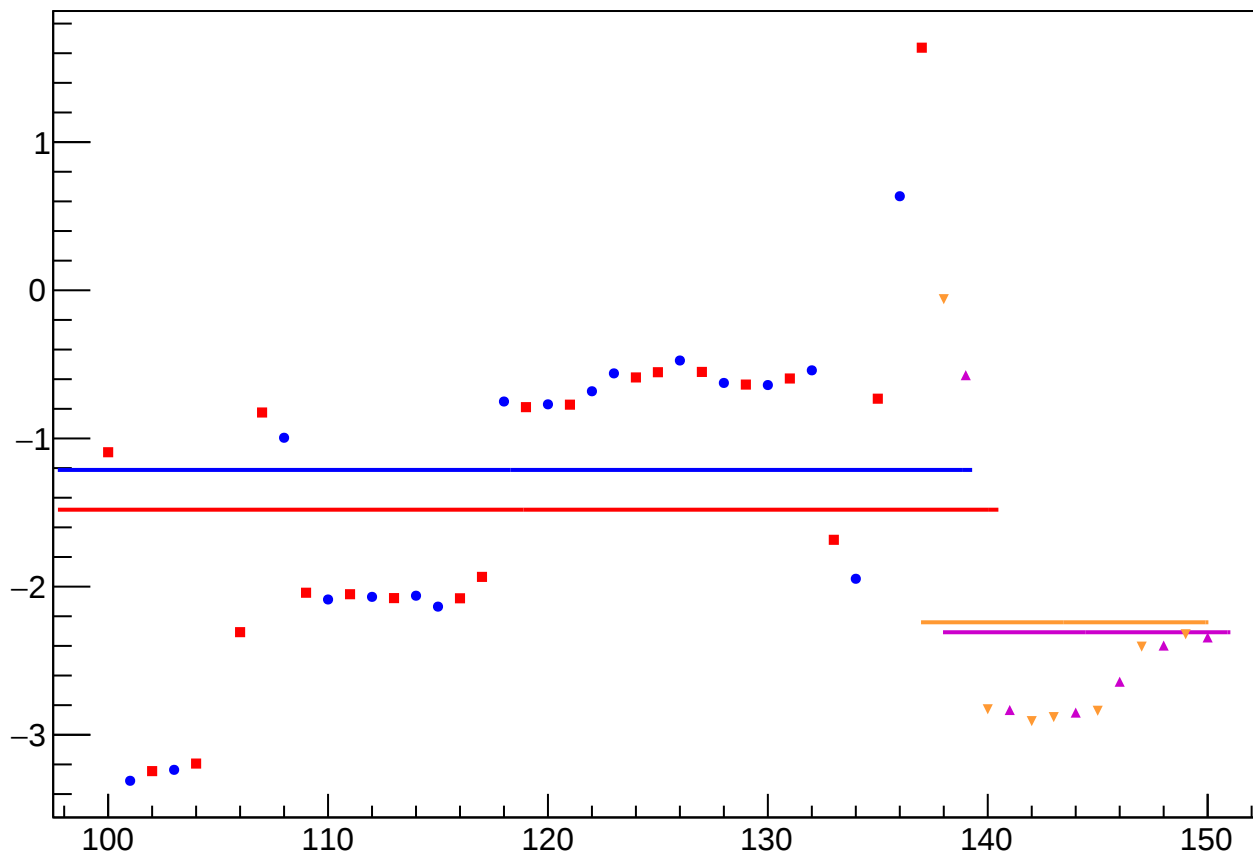
Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 916963.6/19

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:44524.3/5

0.004 $\pm$ 0.000 χ^2 /NDF: 898371.7/23

0.004 $\pm$ 0.000 χ^2 /NDF: 963106.5/25

yield_bpm0r03X_mean vs Slug



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -2.241+/-0.000 χ^2/NDF : 849778816.9/6

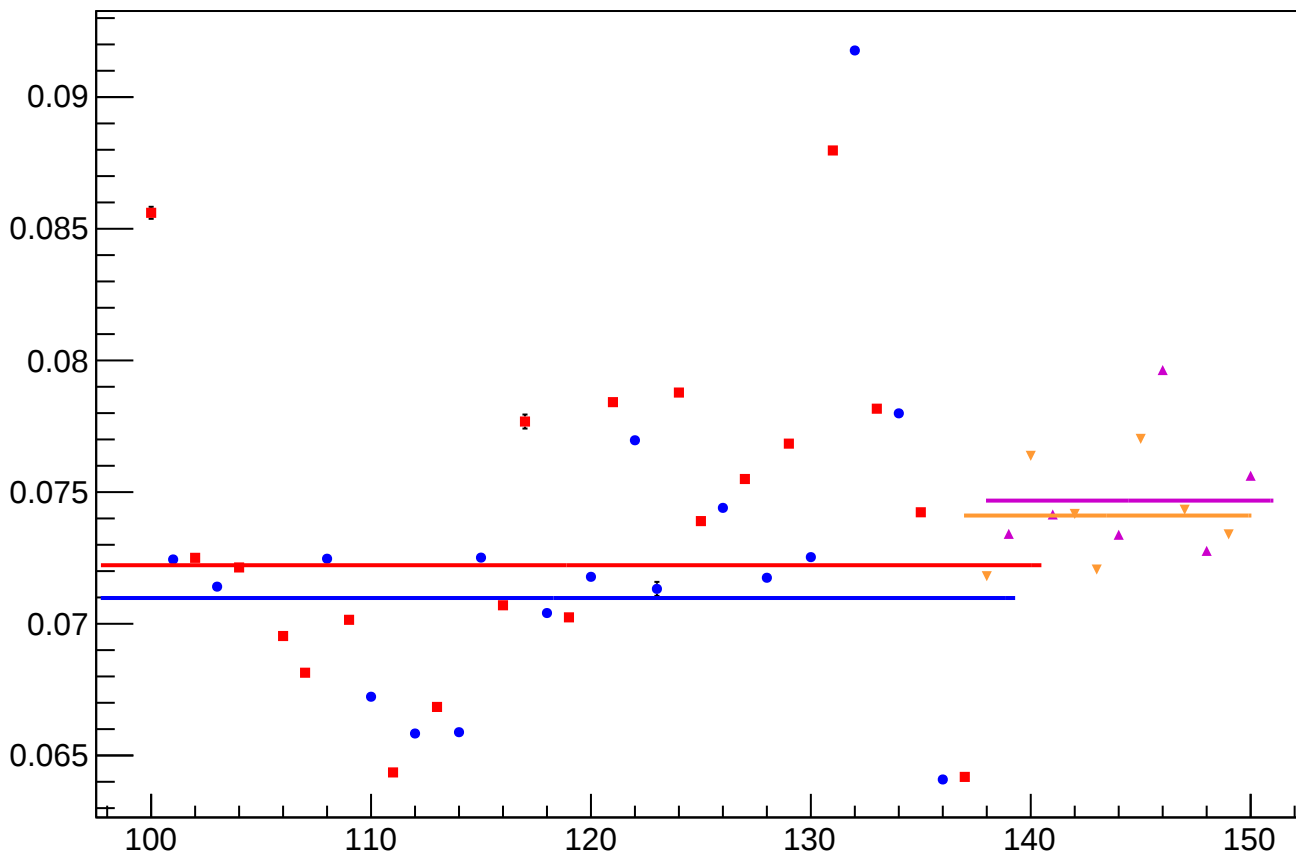
Right Out: -1.481+/-0.000 χ^2/NDF : 1579722113.8/19

Left In: -2.308+/-0.000 χ^2/NDF : 478952268.2/5

-1.625+/-0.000 χ^2/NDF : 3396196453.3/23

-1.800+/-0.000 χ^2/NDF : 2412488013.4/25

yield_bpm0r03X_rms vs Slug



Right In: 0.071 ± 0.000 $\chi^2/\text{NDF}: 77589.5/16$

Left Out: 0.074 ± 0.000 $\chi^2/\text{NDF}: 6077.4/6$

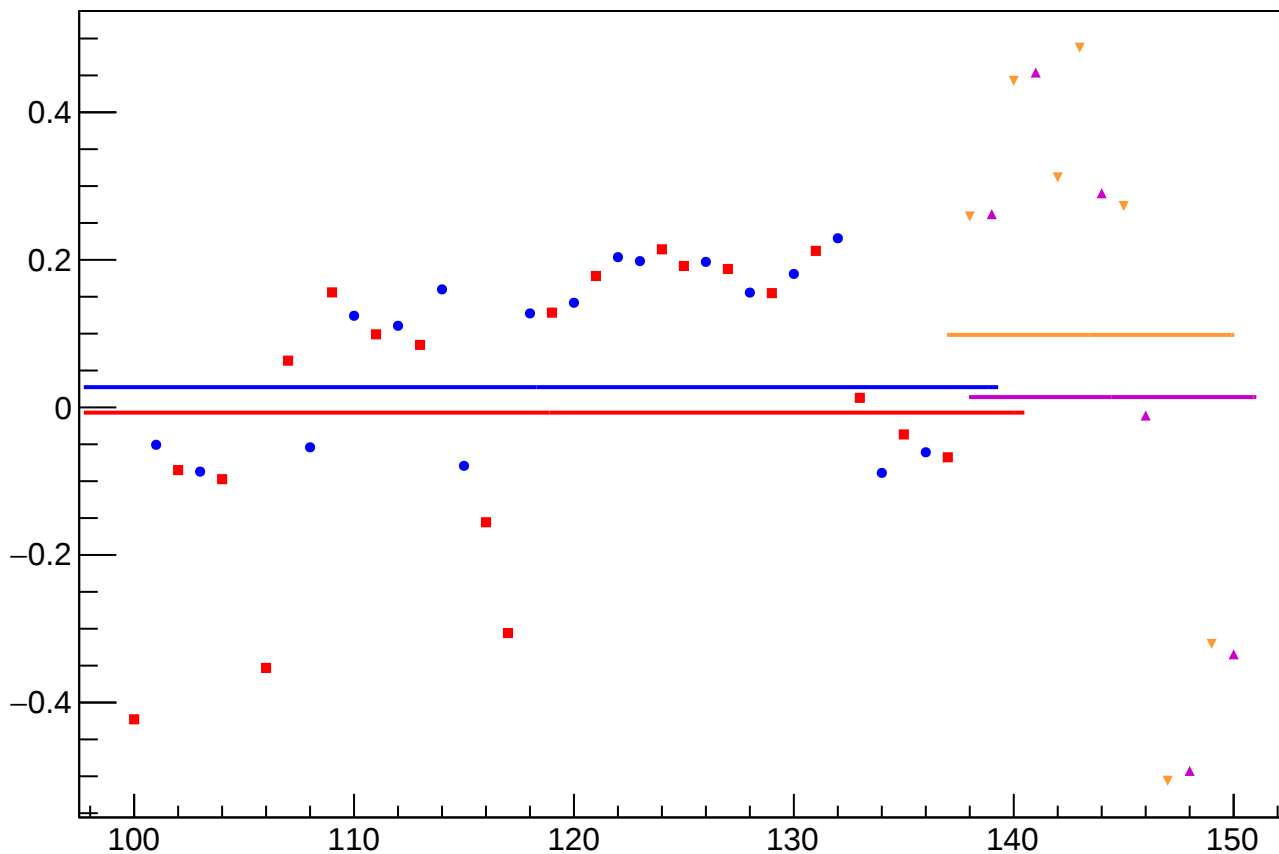
Right Out: 0.072 ± 0.000 $\chi^2/\text{NDF}: 73650.9/19$

Left In: 0.075 ± 0.000 $\chi^2/\text{NDF}: 8083.1/5$

0.072 ± 0.000 $\chi^2/\text{NDF}: 93935.2/23$

0.073 ± 0.000 $\chi^2/\text{NDF}: 87960.5/25$

yield_bpm0r03Y_mean vs Slug



Right In: 0.027+/-0.000 χ^2/NDF : 562337631.4/16

Left Out: 0.098+/-0.000 χ^2/NDF : 8272414742.6/6

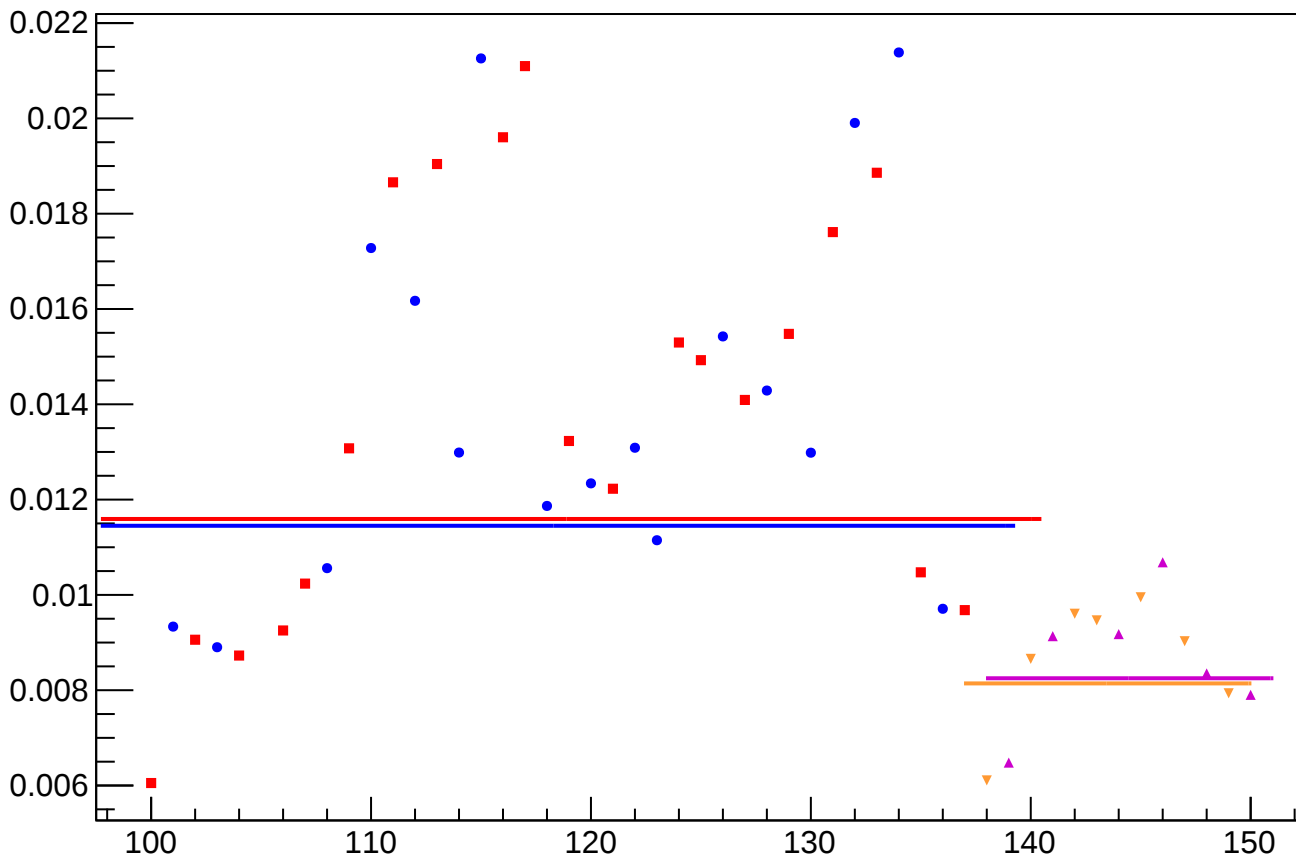
Right Out: -0.007+/-0.000 χ^2/NDF : 1207003891.2/19

Left In: 0.014+/-0.000 χ^2/NDF : 7752928119.6/5

0.070+/-0.000 χ^2/NDF : 8966381962.6/23

0.005+/-0.000 χ^2/NDF : 8971542350.6/25

yield_bpm0r03Y_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 254053.0/6

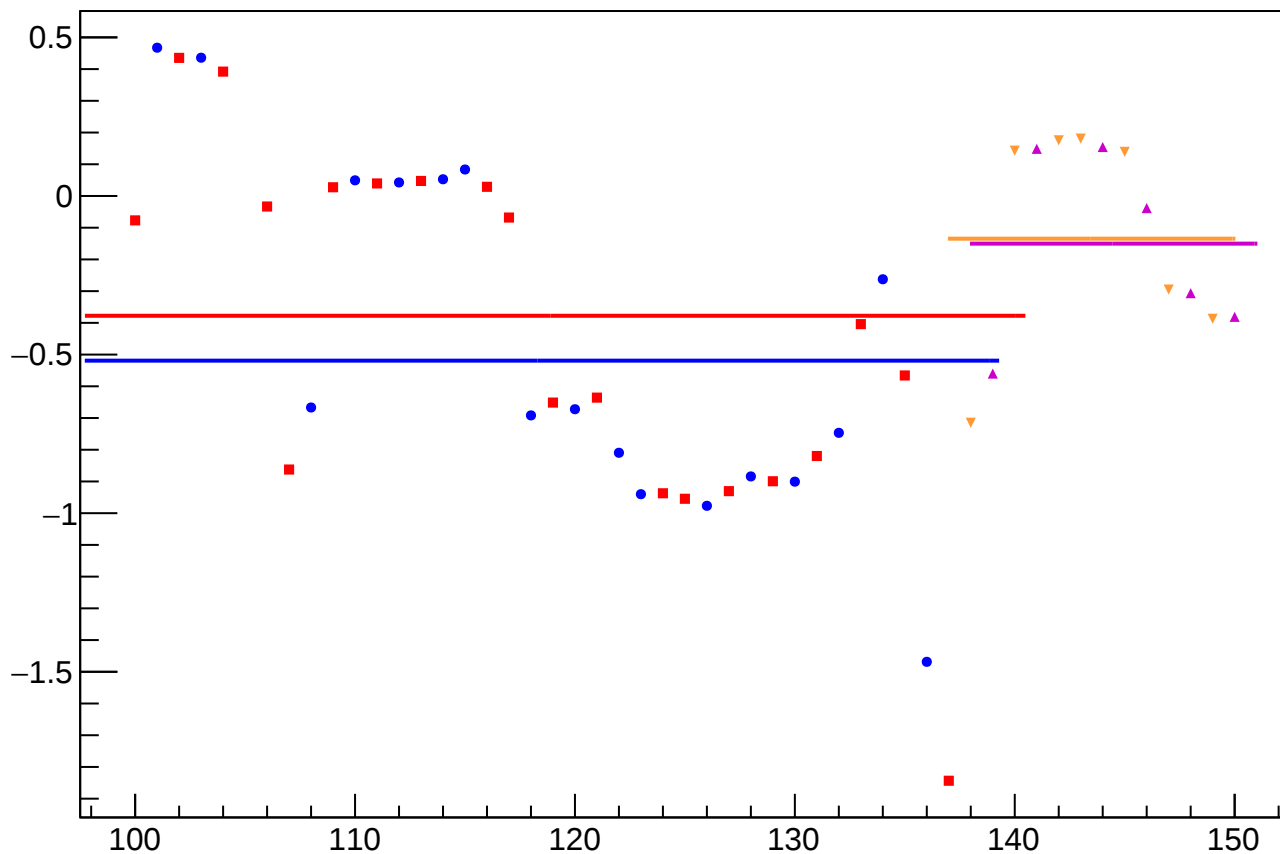
0.009+/-0.000 χ^2/NDF : 1507743.2/23

Right Out: 0.012+/-0.000 χ^2/NDF : 1012799.2/19

0.010+/-0.000 χ^2/NDF : 1793316.3/25

Left In: 0.008+/-0.000 χ^2/NDF : 197564.5/5

yield_bpm0r05X_mean vs Slug



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.135+/-0.000 χ^2/NDF : 75020991.1/6

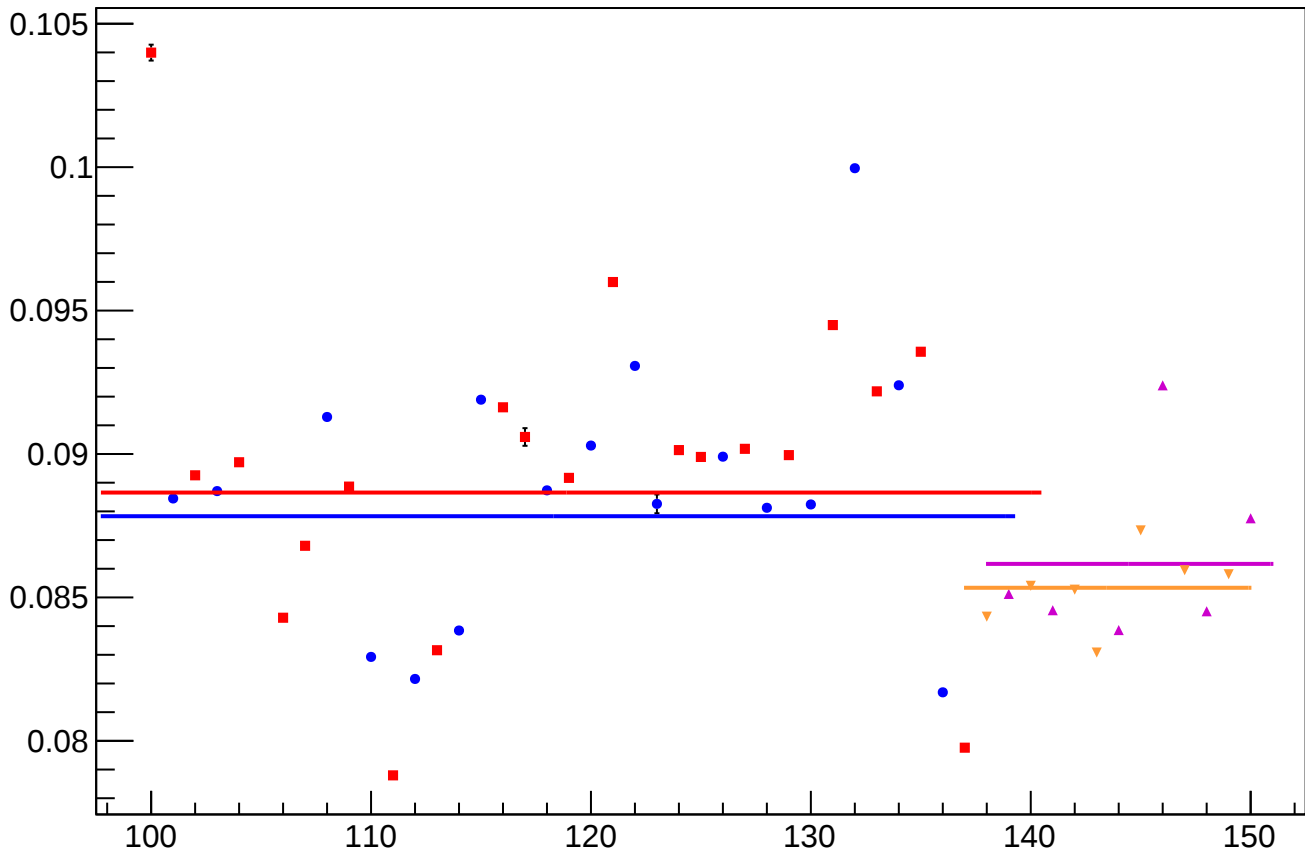
Right Out: -0.378+/-0.000 χ^2/NDF : 269130827.6/19

Left In: -0.150+/-0.000 χ^2/NDF : 47202411.2/5

-0.351+/-0.000 χ^2/NDF : 470568547.0/23

-0.283+/-0.000 χ^2/NDF : 335877302.9/25

yield_bpm0r05X_rms vs Slug



Right In: 0.088 ± 0.000 $\chi^2/\text{NDF}: 34954.4/16$

Left Out: 0.085 ± 0.000 $\chi^2/\text{NDF}: 2089.4/6$

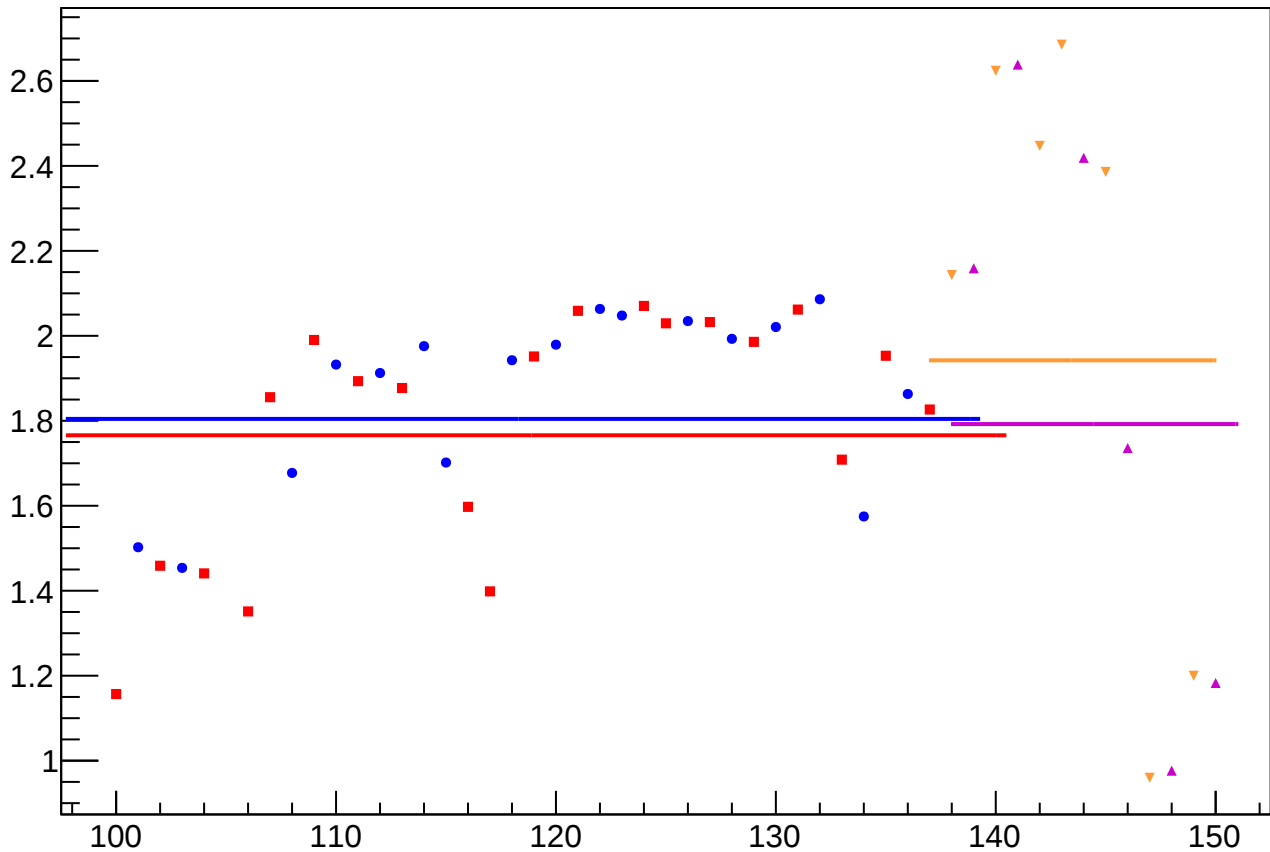
Right Out: 0.089 ± 0.000 $\chi^2/\text{NDF}: 39762.8/19$

Left In: 0.086 ± 0.000 $\chi^2/\text{NDF}: 10415.7/5$

0.087 ± 0.000 $\chi^2/\text{NDF}: 41770.4/23$

0.088 ± 0.000 $\chi^2/\text{NDF}: 54853.5/25$

yield_bpm0r05Y_mean vs Slug



Right In: 1.804+/-0.000 χ^2/NDF : 1156747883.2/16

Left Out: 1.942+/-0.000 χ^2/NDF : 15152921120.9/6

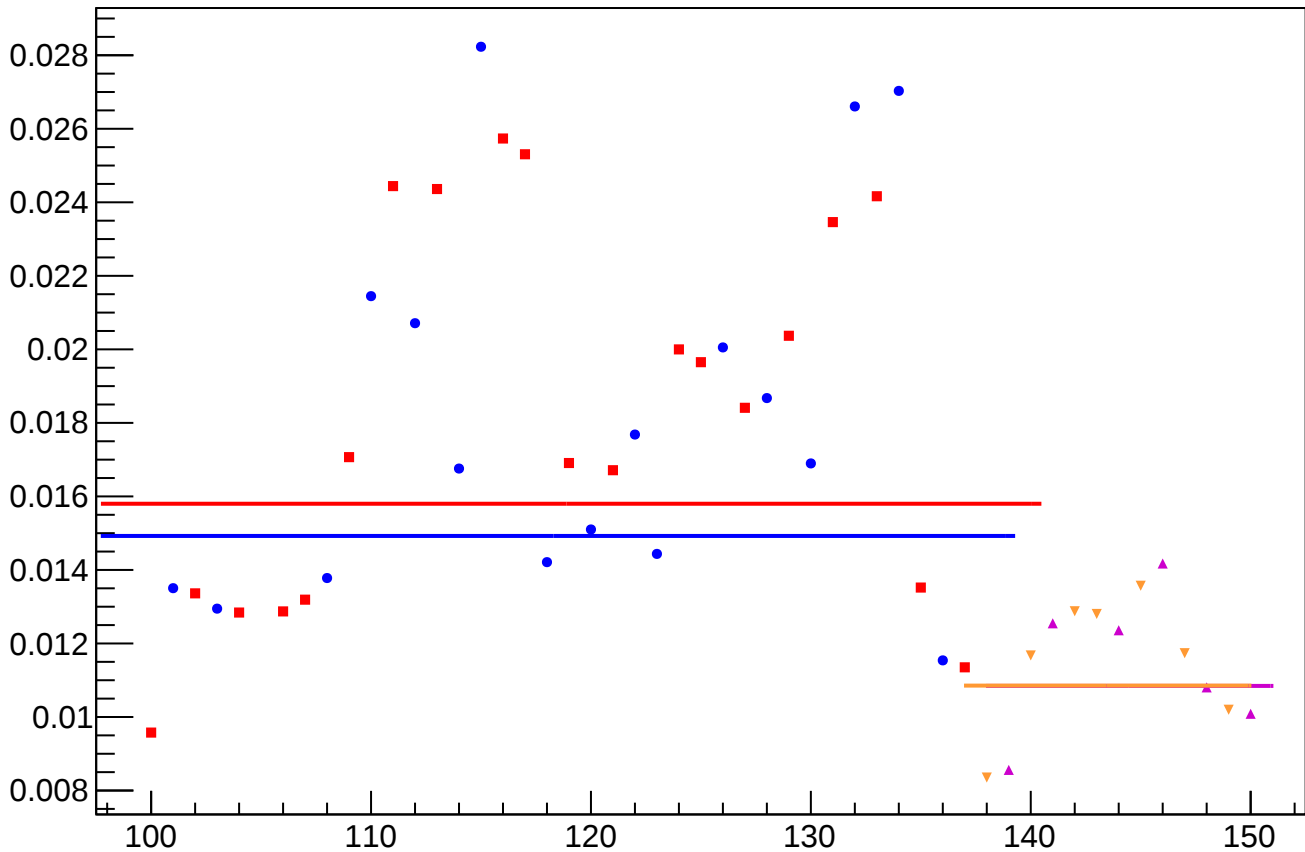
Right Out: 1.766+/-0.000 χ^2/NDF : 1717275187.7/19

Left In: 1.792+/-0.000 χ^2/NDF : 13950745822.8/5

1.886+/-0.000 χ^2/NDF : 16599560736.0/23

1.782+/-0.000 χ^2/NDF : 15678221045.1/25

yield_bpm0r05Y_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.011+/-0.000 χ^2/NDF :248013.5/6

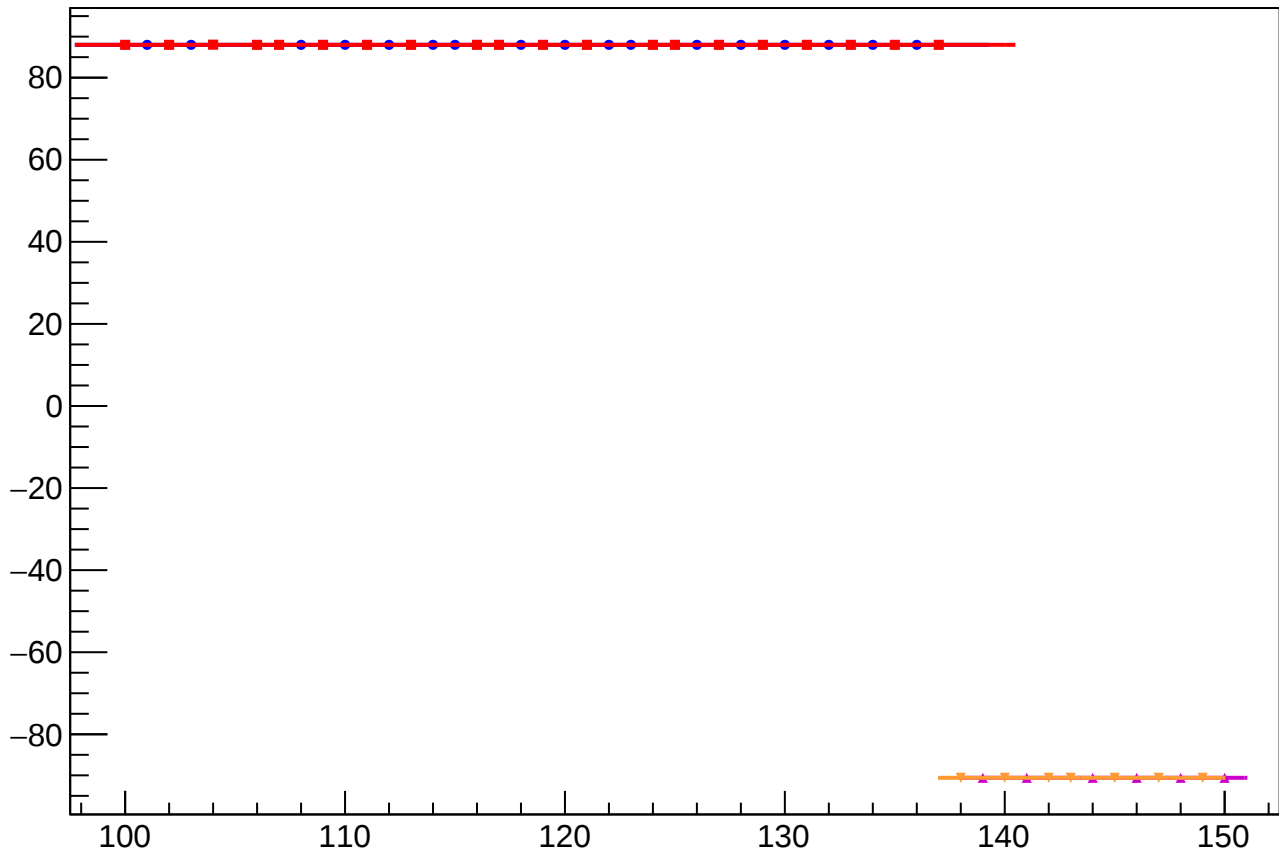
Right Out: 0.016+/-0.000 χ^2/NDF : 796839.8/19

Left In: 0.011+/-0.000 χ^2/NDF :226374.4/5

0.013+/-0.000 χ^2/NDF : 1397116.5/23

0.013+/-0.000 χ^2/NDF : 1741329.2/25

epics_VWienAngles_mean vs Slug



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 1852068.7/16

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF:3052046.0/6

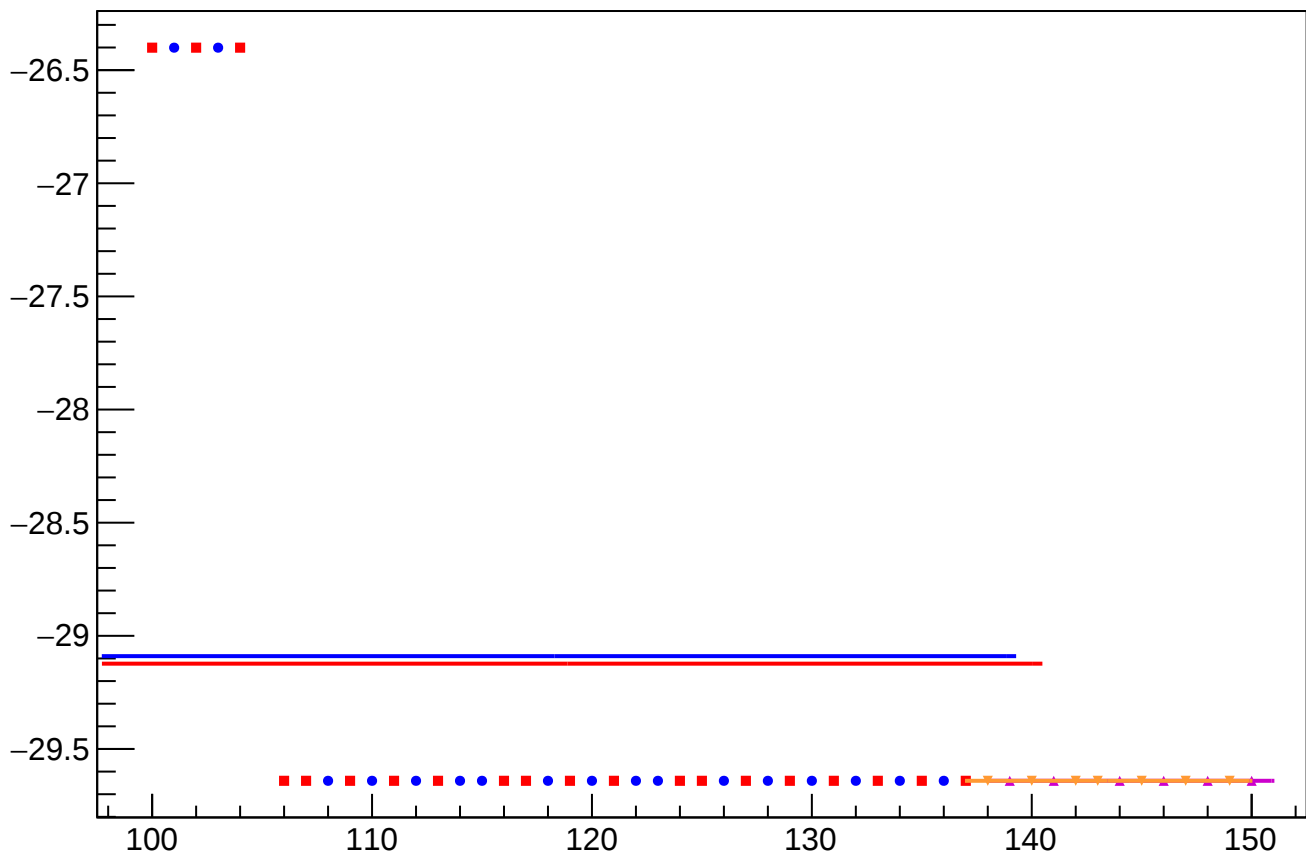
11.837 $\pm$ 0.000 χ^2 /NDF: 944031989077685008

Right Out: 88.004 $\pm$ 0.000 χ^2 /NDF: 77578366411928007427611426816.0/19

15.078 $\pm$ 0.000 χ^2 /NDF: 945597935003784952

Left In: -90.599 $\pm$ 0.000 χ^2 /NDF:1258946.3/5

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 :156535.2/6

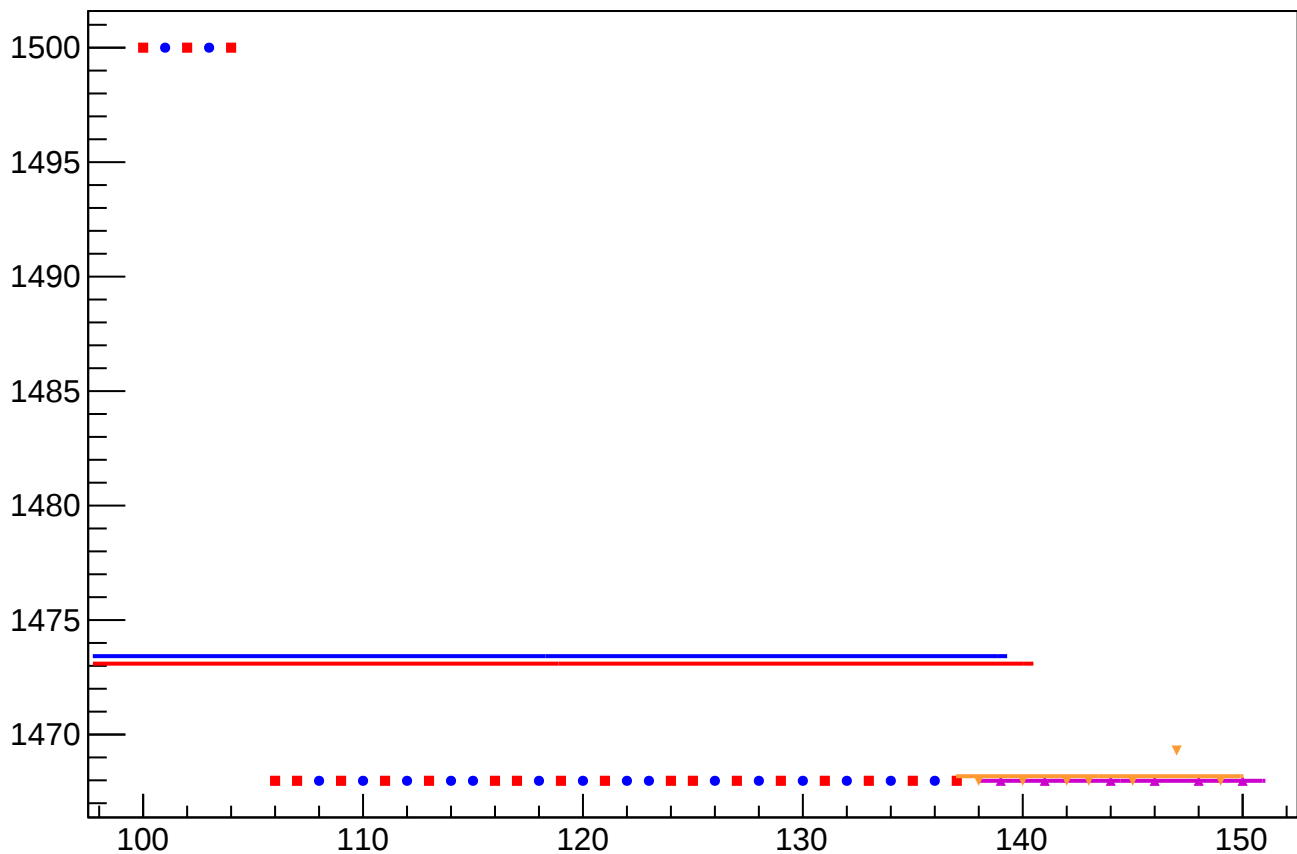
Right Out: -29.123+/-0.000 χ^2/NDF : 1023154512396702254583444720844800.0/19

Left In: -29.641+/-0.000 χ^2/NDF :36464.3/5

-29.325+/-0.000 χ^2/NDF : 11179163186776832

-29.334+/-0.000 χ^2/NDF : 11025987755501112

epics_psub_pl_poss_mean vs Slug



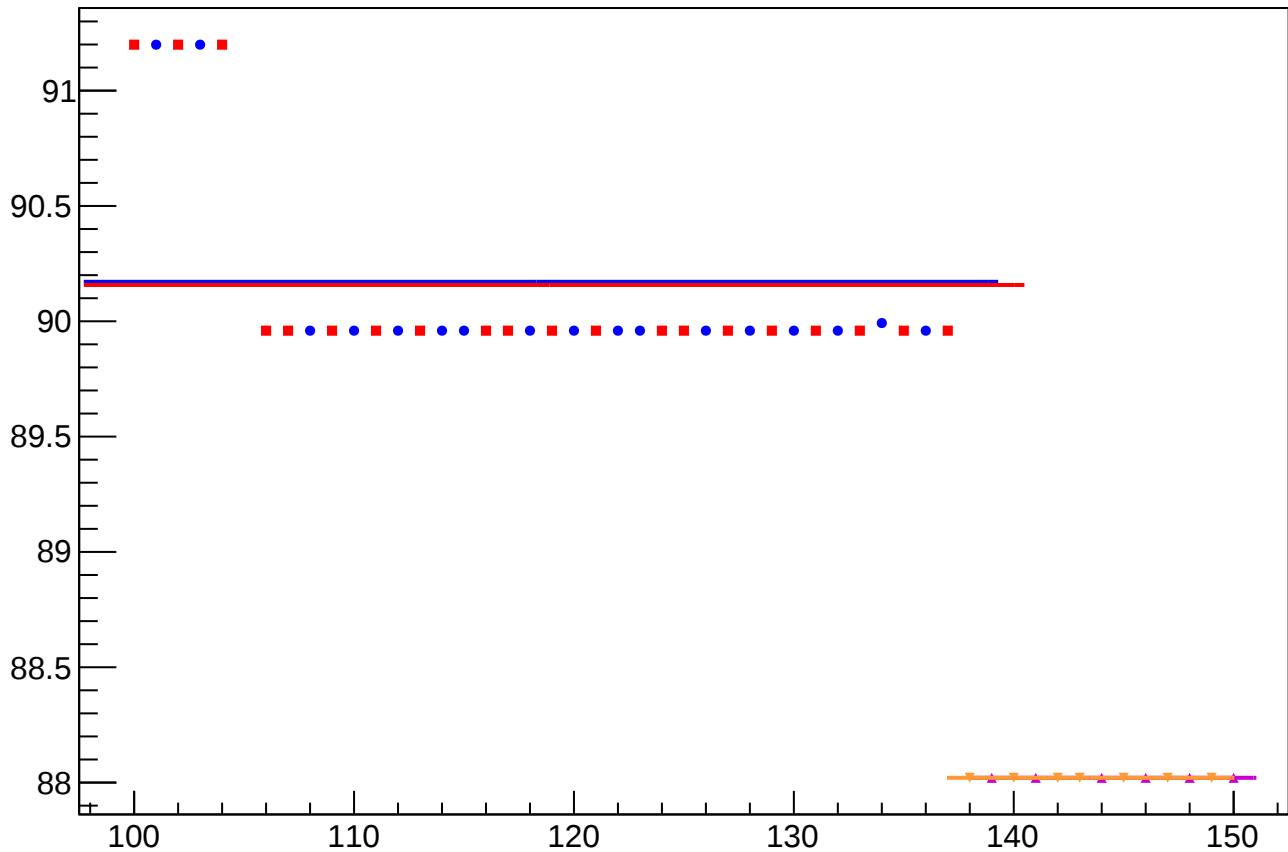
Right In: 1473.424 ± 0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.179 ± 0.000 χ^2/NDF : 115751024858577901145132124602368.0/6

Right Out: 1473.096 ± 0.000 χ^2/NDF : 99938310777099611815298348687032320.0/19

Left In: 1467.979 ± 0.000 χ^2/NDF : 192784781.5/5

epics_Phi_FGs_mean vs Slug



Right In: 90.171 $\pm$ 0.000 χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021 $\pm$ 0.000 χ^2/NDF : 2716003.9/6

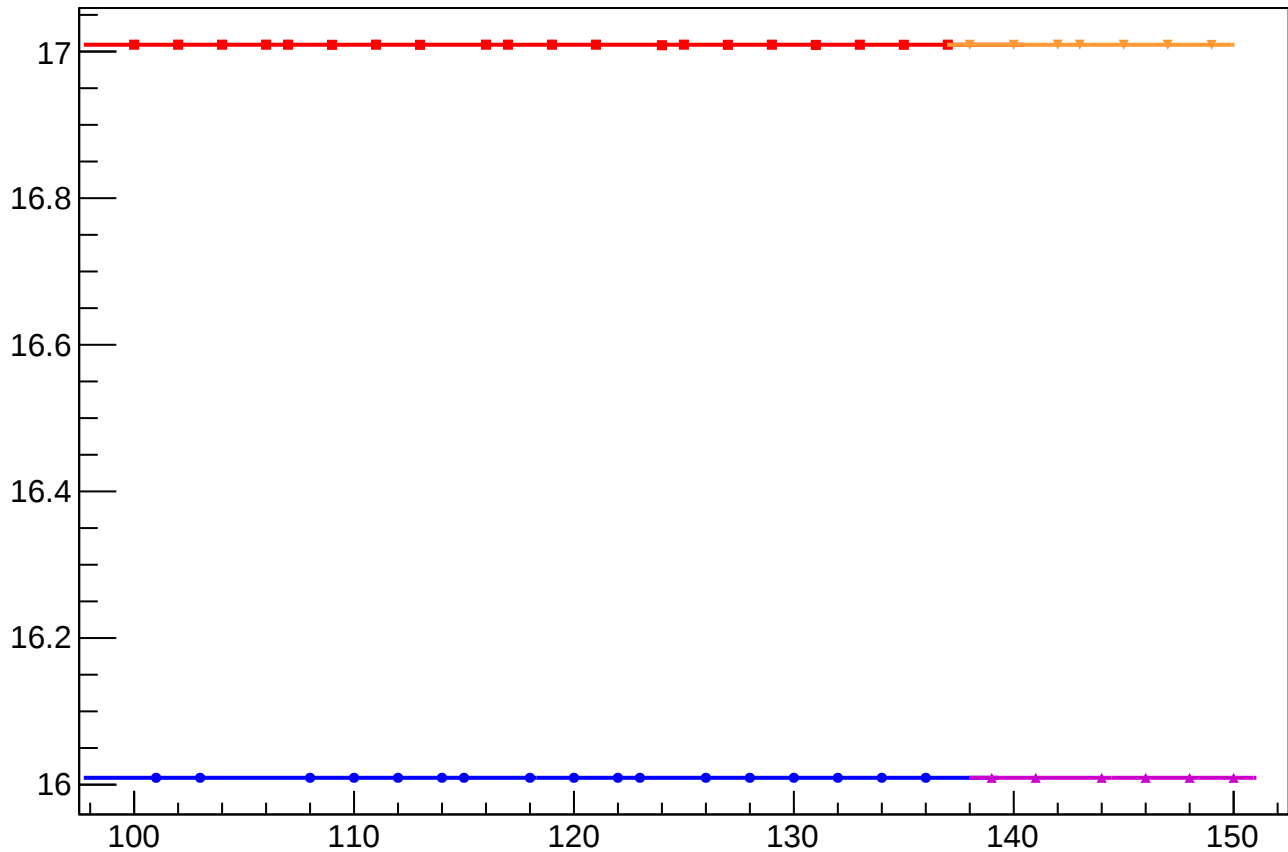
Right Out: 90.157 $\pm$ 0.000 χ^2/NDF : 149863052341628336344772108091392.0/19

Left In: 88.021 $\pm$ 0.000 χ^2/NDF : 1410205.6/5

89.254 $\pm$ 0.000 χ^2/NDF : 151890964477197450

89.285 $\pm$ 0.000 χ^2/NDF : 15032600408680380

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: 4403417464622641215176704.0/6

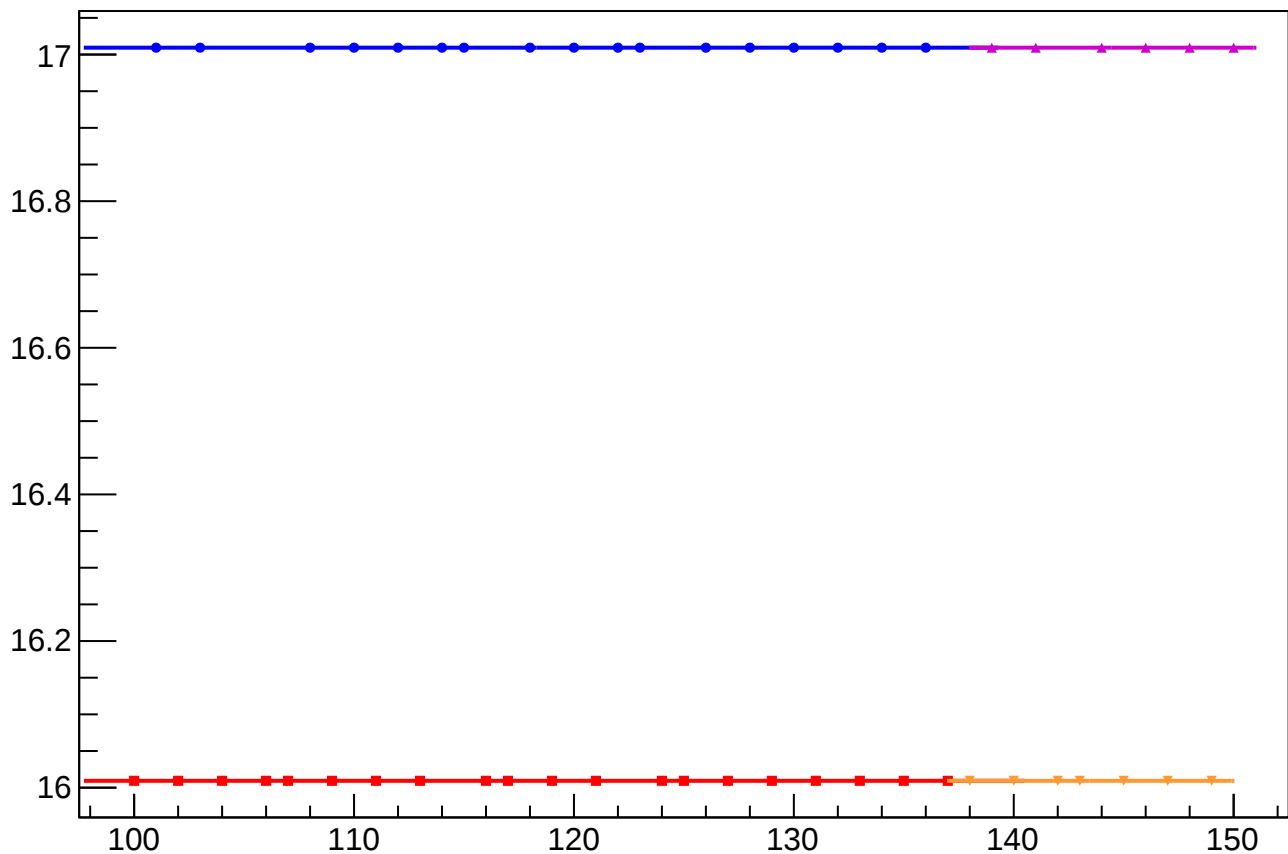
Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12548783366686740957888512.0/19

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 19803.6/5

16.425 $\pm$ 0.000 χ^2 /NDF: 275105418594596042

16.592 $\pm$ 0.000 χ^2 /NDF: 274457117308301163

epics_IGL1I00OD16_16s_mean vs Slug



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 17266.6/6

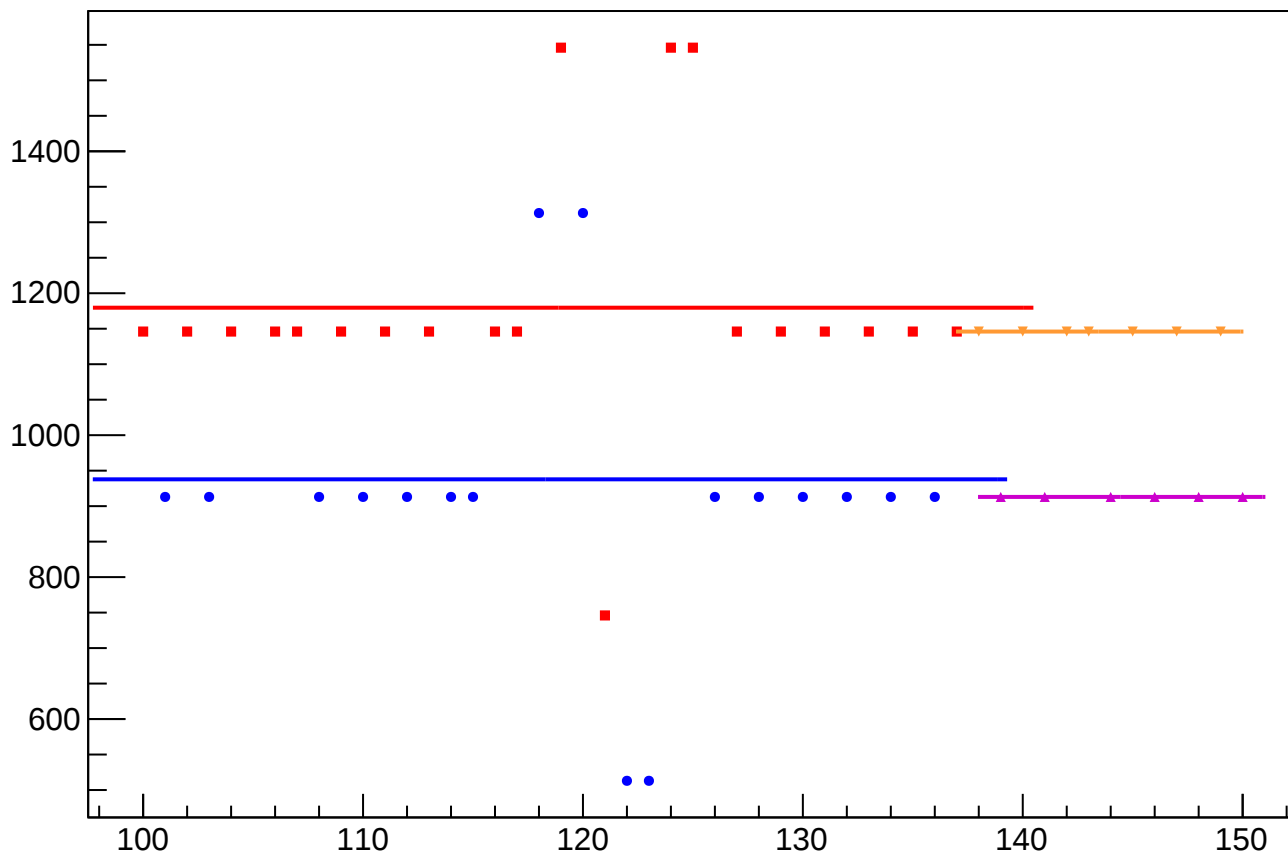
Right Out: 16.009+/-0.000 χ^2/NDF : 42750.0/19

Left In: 17.009+/-0.000 χ^2/NDF : 11018.8/5

16.575+/-0.000 χ^2/NDF : 28743247863247356

16.420+/-0.000 χ^2/NDF : 29526147540981030

epics_RTPAPOSUCNTs_mean vs Slug



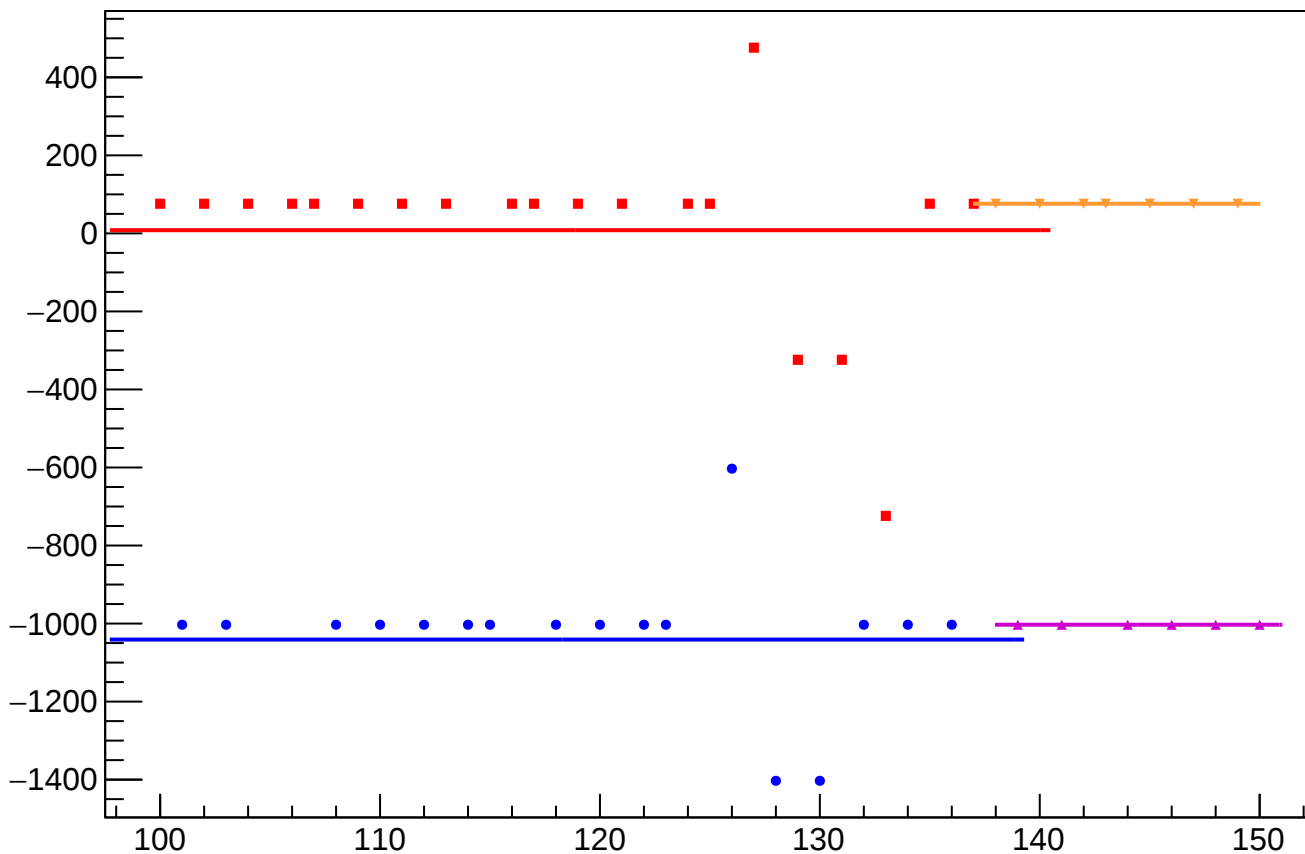
Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16

Left Out: 1146.011+/-0.000 χ^2/NDF : 2002119584020016723361005568.0/6

Right Out: 1179.619+/-0.000 χ^2/NDF : 21420659731738679306829480097874968576.0/19

Left In: 912.994+/-0.000 χ^2/NDF : 8695798473934990862884798464.0/5

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 : 2642194520450099076585750528.0/6

Right Out: 8.240+/-0.000 χ^2/NDF : 43865391744972338137265798243810279424.0/19

Left In: -1002.989+/-0.000 χ^2/NDF : 847029506551861126279200768.0/5