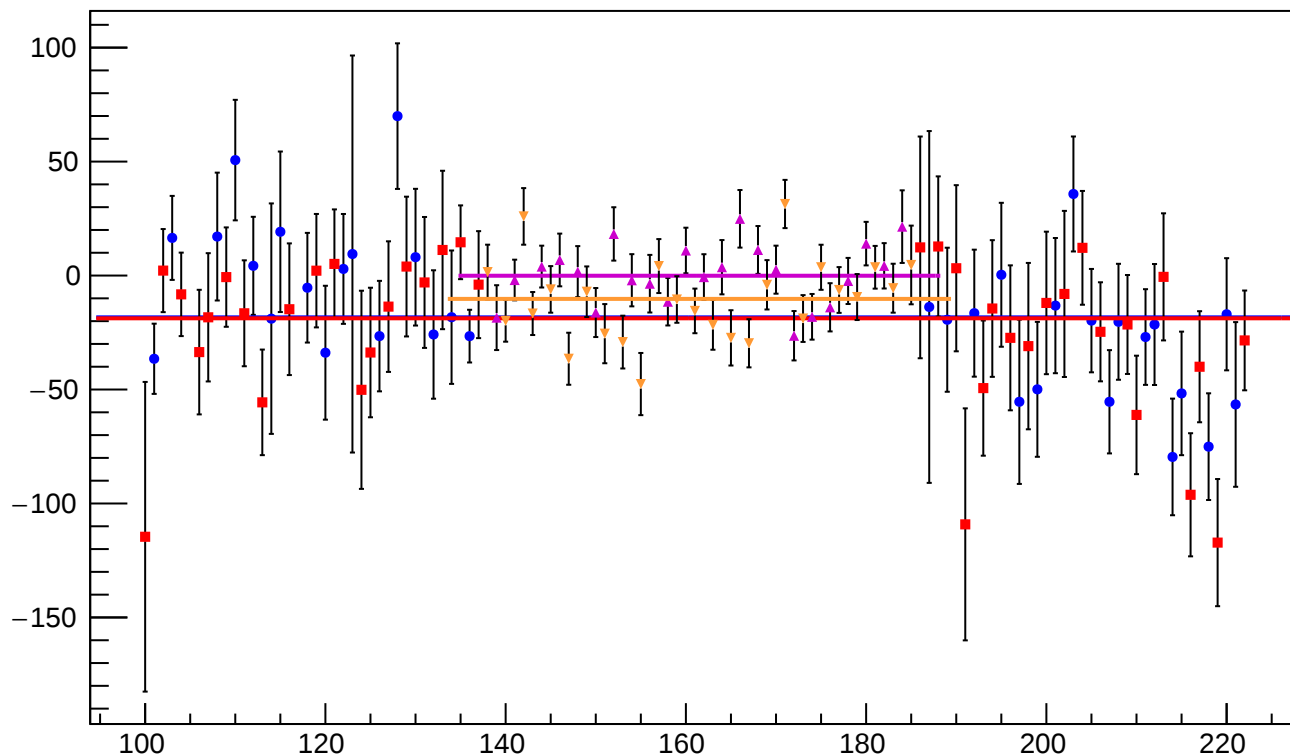


diff_bpm4aX_mean vs Slug



Right In: -18.339 ± 4.225

Left Out: -10.238 ± 2.170

Right Out: -18.760 ± 4.290

Left In: -0.080 ± 2.251

χ^2/NDF : 50.5/34

χ^2/NDF : 58.1/24

χ^2/NDF : 48.7/37

χ^2/NDF : 29.9/22

+ sign -11.929 ± 1.930

All: -8.145 ± 1.387

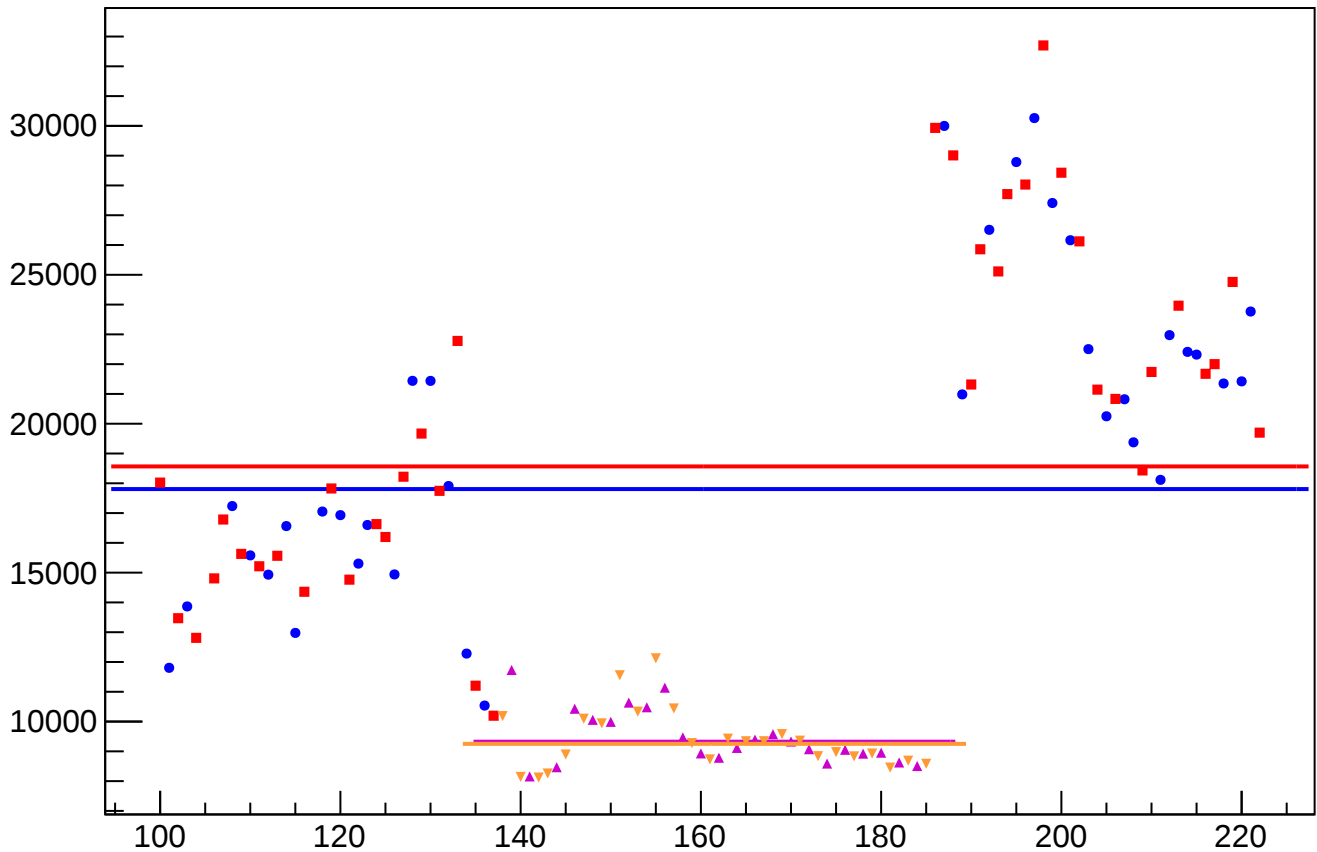
- sign -4.112 ± 1.993

χ^2/NDF : 111.5/59

χ^2/NDF : 212.8/120

χ^2/NDF : 93.4/60

diff_bpm4aX_rms vs Slug



Right In: 17805.957 $\pm$ 2.988 χ^2 /NDF: 3046803.2/34

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

Right Out: 18565.750 $\pm$ 3.033 χ^2 /NDF: 3082136.9/37

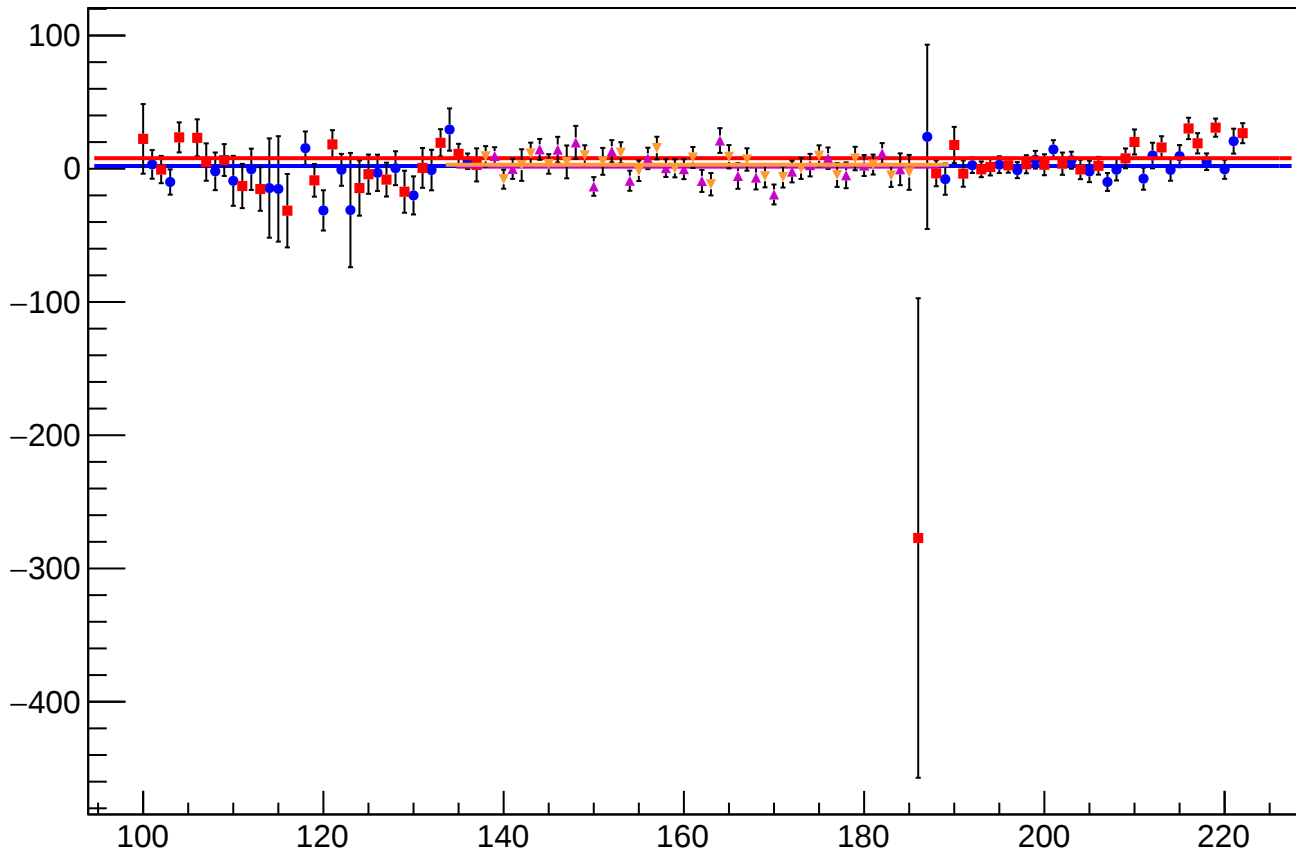
Left In: 9323.983 $\pm$ 1.591 χ^2 /NDF:275717.0/22

+ sign 11037.360 $\pm$ 1.365 χ^2 /NDF: 9864943.4/59

All: 11173.515 $\pm$ 0.980 χ^2 /NDF: 20522403.1

- sign 11318.619 $\pm$ 1.409 χ^2 /NDF: 10636908.8/60

diff_bpm4aY_mean vs Slug



Right In: 2.049 ± 1.529 χ^2/NDF : 31.1/34

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

Right Out: 7.927 ± 1.514 χ^2/NDF : 63.4/37

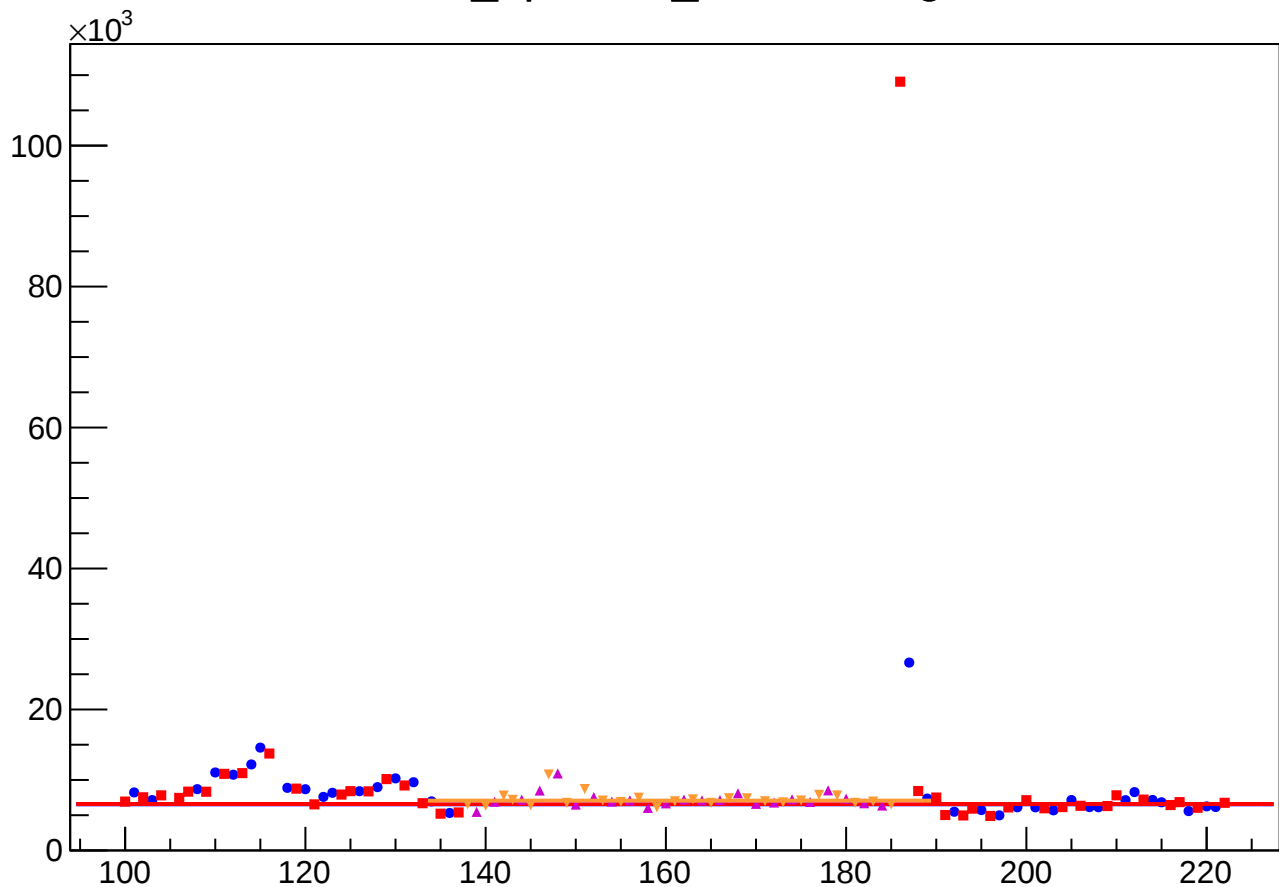
Left In: 1.588 ± 1.703 χ^2/NDF : 35.5/22

+ sign 2.498 ± 1.125 χ^2/NDF : 49.9/59

All: 3.806 ± 0.798 χ^2/NDF : 159.2/120

- sign 5.128 ± 1.131 χ^2/NDF : 106.6/60

diff_bpm4aY_rms vs Slug



Right In: 6550.094 ± 1.081 χ^2/NDF : 1673309.5/34

Left Out: 7064.457 ± 1.174 χ^2/NDF : 386814.9/24

Right Out: 6588.176 ± 1.071 χ^2/NDF : 2167822.1/37

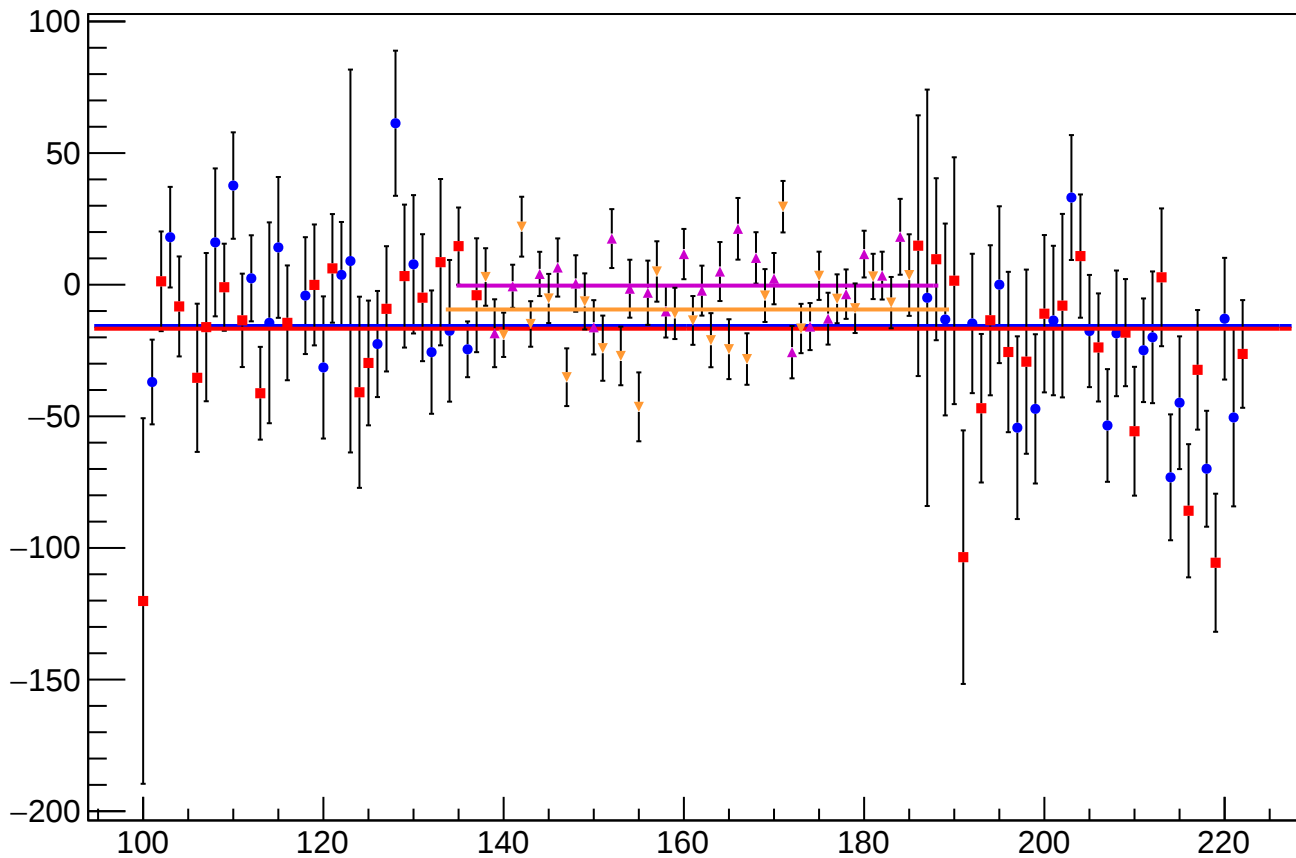
Left In: 7014.572 ± 1.204 χ^2/NDF : 525313.7/22

+ sign 6786.137 ± 0.795 χ^2/NDF : 2163955.0/59

All: 6781.321 ± 0.564 χ^2/NDF : 4927217.7/12

- sign 6776.449 ± 0.800 χ^2/NDF : 2763188.9/60

diff_bpm4eX_mean vs Slug



Right In: -15.691 ± 3.876 χ^2/NDF : 51.5/34

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

Right Out: -16.719 ± 3.904 χ^2/NDF : 45.9/37

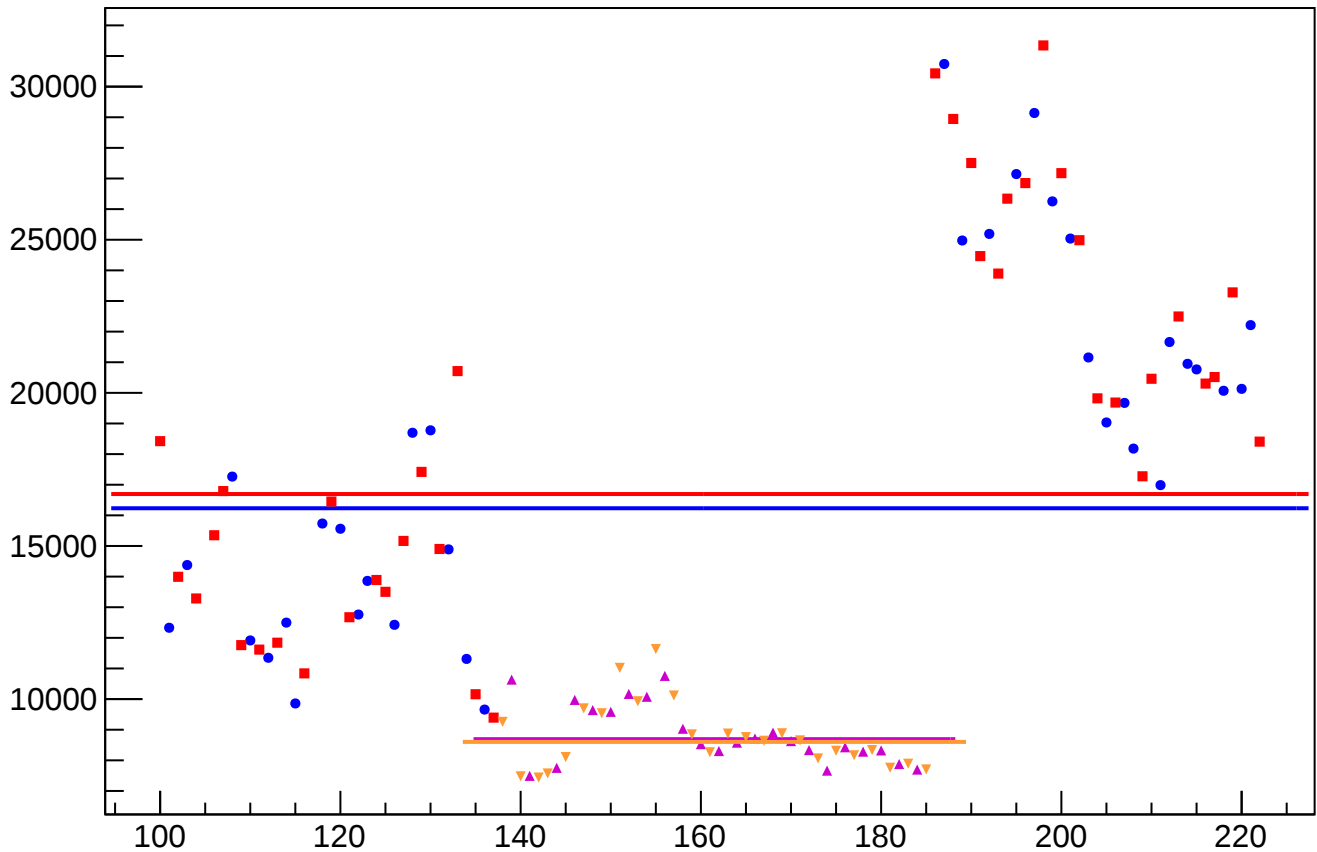
Left In: -0.344 ± 2.100 χ^2/NDF : 29.9/22

+ sign -10.753 ± 1.792 χ^2/NDF : 112.3/59

All: -7.494 ± 1.287 χ^2/NDF : 208.6/120

- sign -4.021 ± 1.850 χ^2/NDF : 89.4/60

diff_bpm4eX_rms vs Slug



Right In: 16231.974 $\pm$ 2.741 χ^2 /NDF: 3560033.7/34

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

Right Out: 16696.272 $\pm$ 2.760 χ^2 /NDF: 3934560.3/37

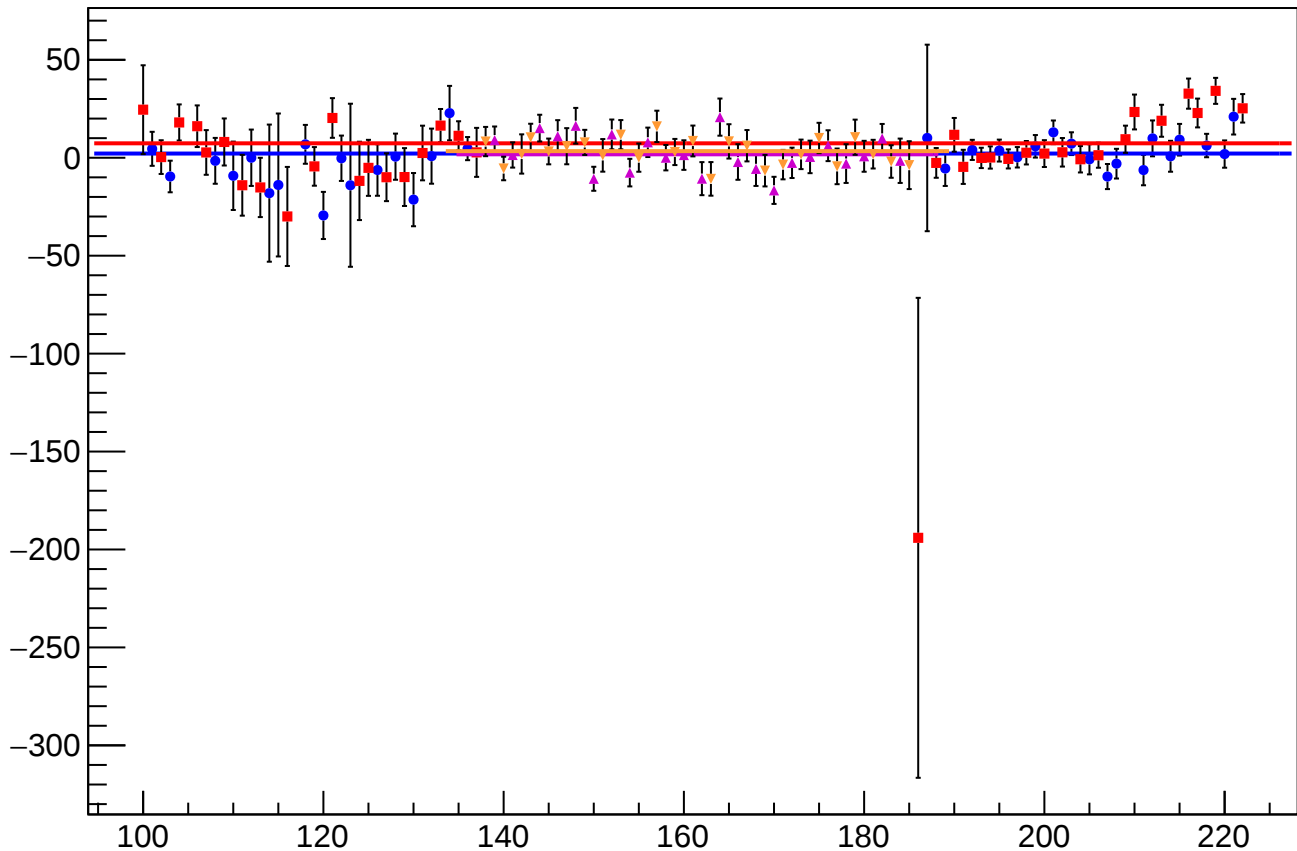
Left In: 8691.203 $\pm$ 1.485 χ^2 /NDF:365254.6/22

+ sign 10233.020 $\pm$ 1.267 χ^2 /NDF: 10091559.8/59

All: 10356.745 $\pm$ 0.910 χ^2 /NDF: 20933146.4

- sign 10488.562 $\pm$ 1.308 χ^2 /NDF: 10821896.3/60

diff_bpm4eY_mean vs Slug



Right In: 2.149 ± 1.395 χ^2/NDF : 33.3/34

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

Right Out: 7.371 ± 1.364 χ^2/NDF : 79.4/37

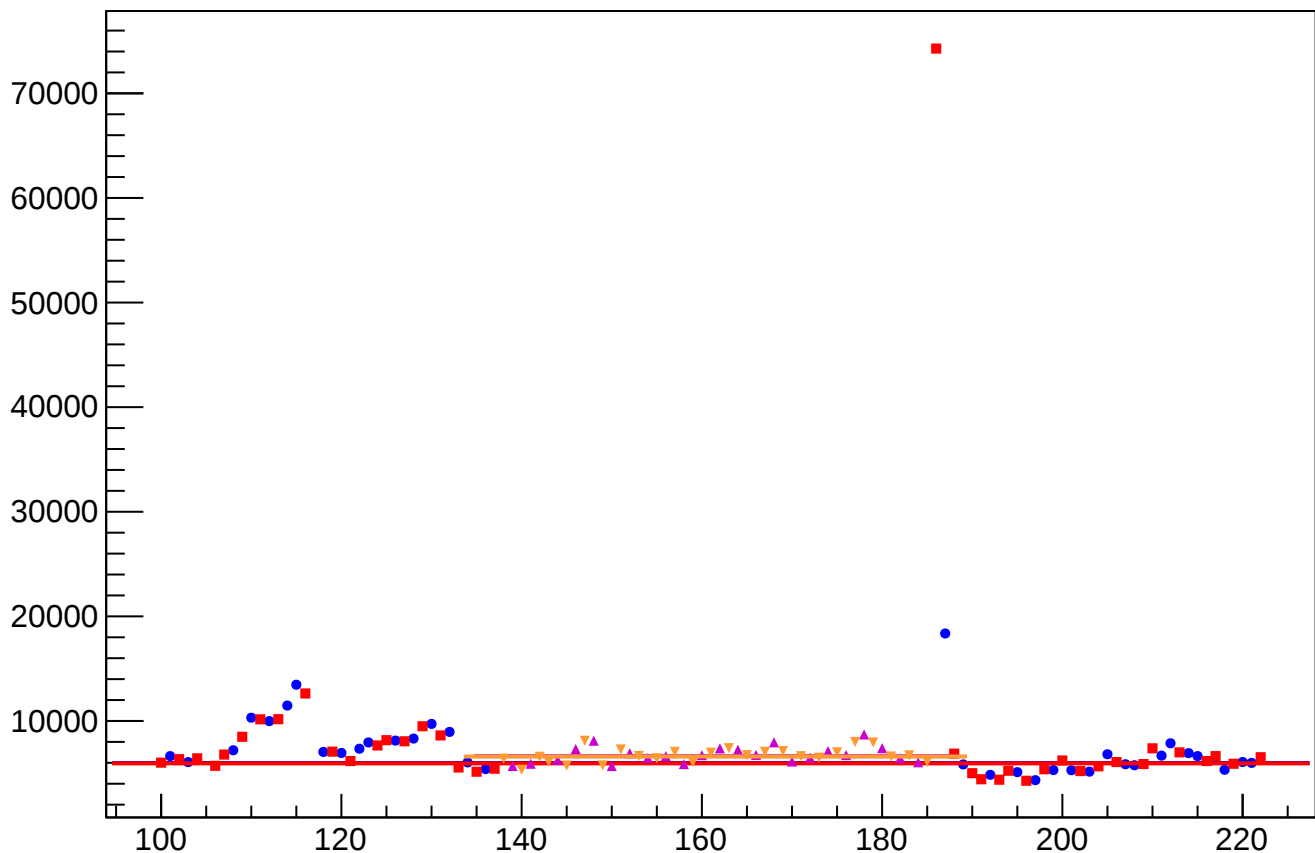
Left In: 1.756 ± 1.607 χ^2/NDF : 33.5/22

+ sign 2.696 ± 1.037 χ^2/NDF : 50.8/59

All: 3.855 ± 0.734 χ^2/NDF : 173.3/120

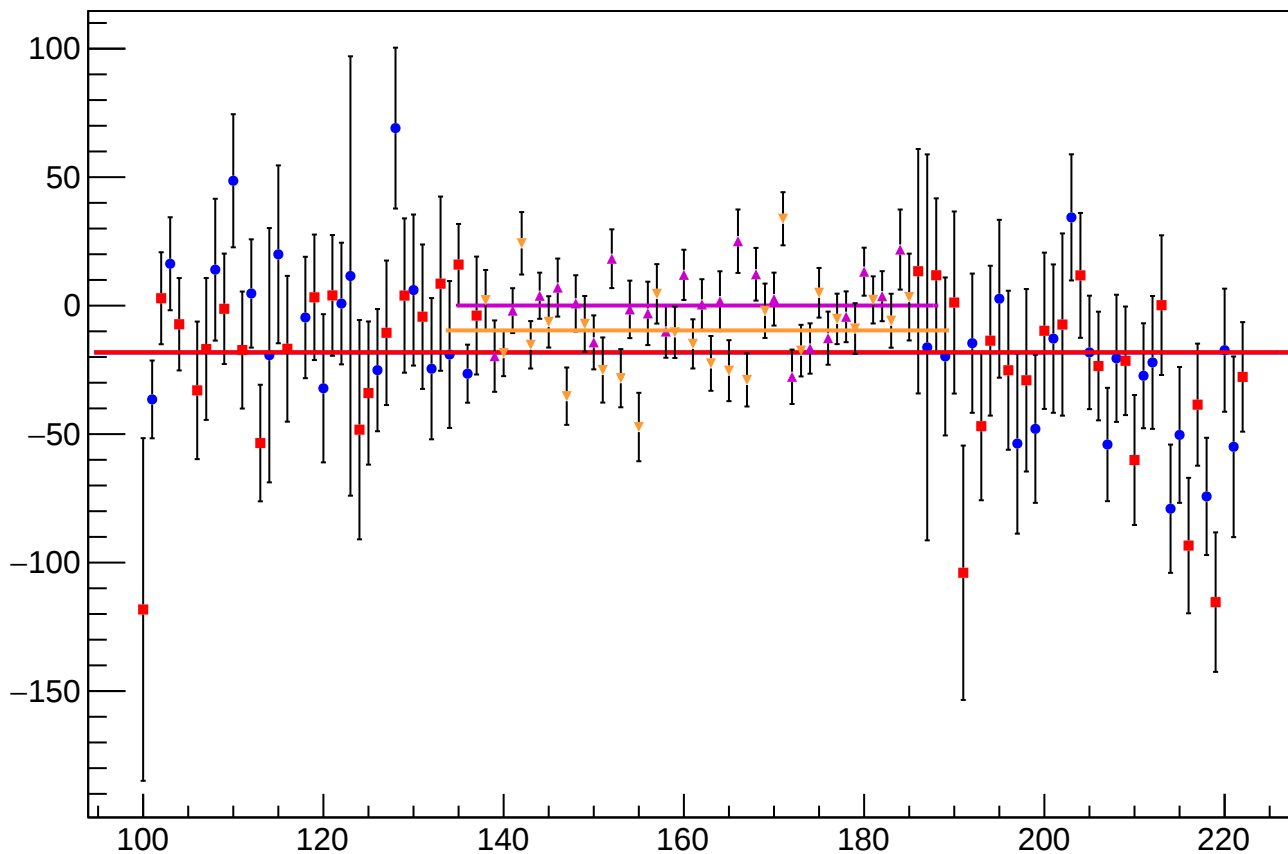
- sign 5.019 ± 1.040 χ^2/NDF : 120.0/60

diff_bpm4eY_rms vs Slug



Right In: 5980.618+/-0.986	χ^2/NDF : 1669314.7/34	+ sign 6259.195+/-0.734	χ^2/NDF : 2243043.9/59
Left Out: 6603.953+/-1.097	χ^2/NDF : 395247.5/24	All: 6247.640+/-0.519	χ^2/NDF : 5141640.7/12
Right Out: 5946.874+/-0.965	χ^2/NDF : 2268109.8/37	- sign 6236.026+/-0.735	χ^2/NDF : 2898099.3/60
Left In: 6637.155+/-1.136	χ^2/NDF : 415547.5/22		

diff_bpm4acX_mean vs Slug



Right In: -18.256 ± 4.129 χ^2/NDF : 50.6/34

Left Out: -9.640 ± 2.122 χ^2/NDF : 59.9/24

Right Out: -18.149 ± 4.193 χ^2/NDF : 49.2/37

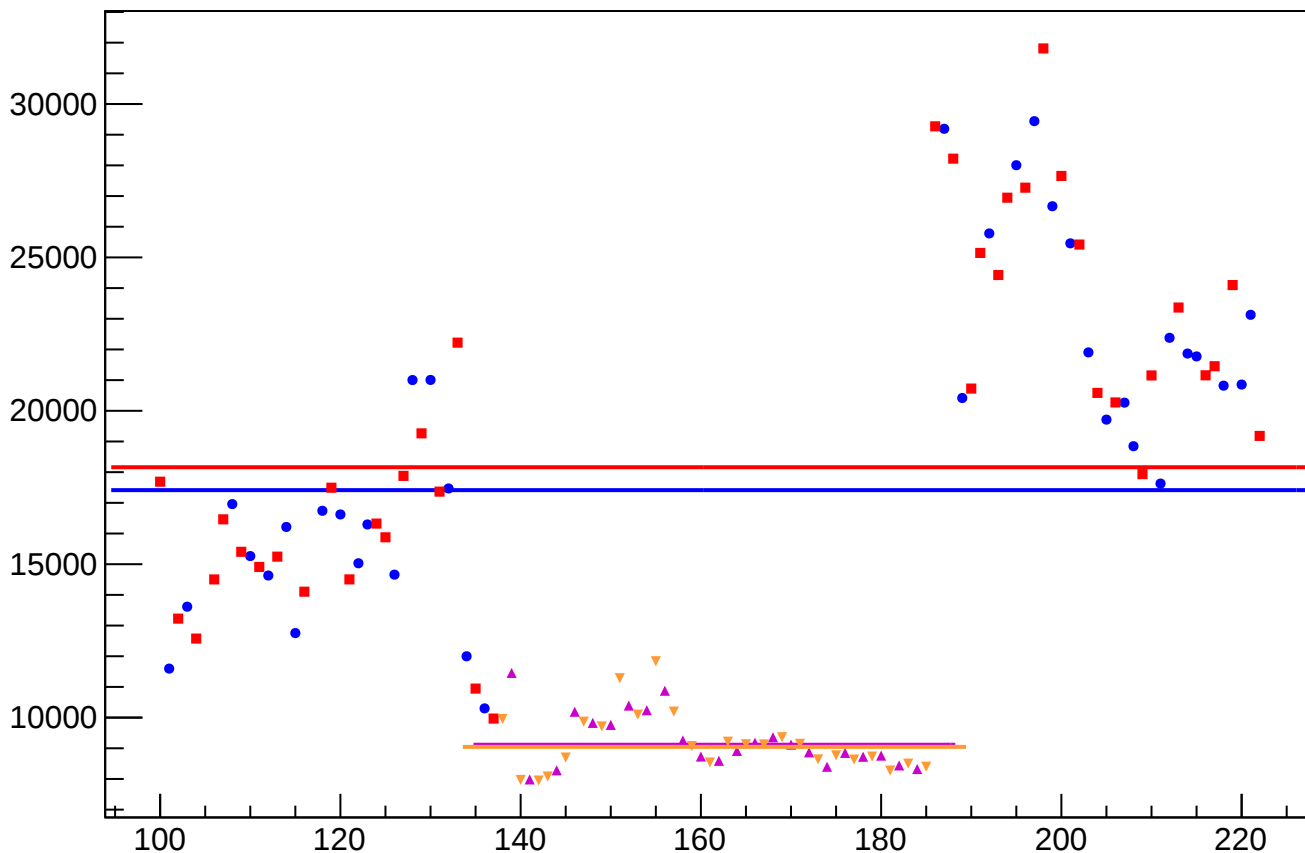
Left In: 0.042 ± 2.200 χ^2/NDF : 30.8/22

+ sign -11.439 ± 1.887 χ^2/NDF : 113.9/59

All: -7.782 ± 1.356 χ^2/NDF : 216.4/120

- sign -3.885 ± 1.948 χ^2/NDF : 94.7/60

diff_bpm4acX_rms vs Slug



Right In: 17414.333+/-2.920 χ^2/NDF : 2994986.2/34

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

+ sign 10793.694+/-1.334 χ^2/NDF : 9821638.0/59

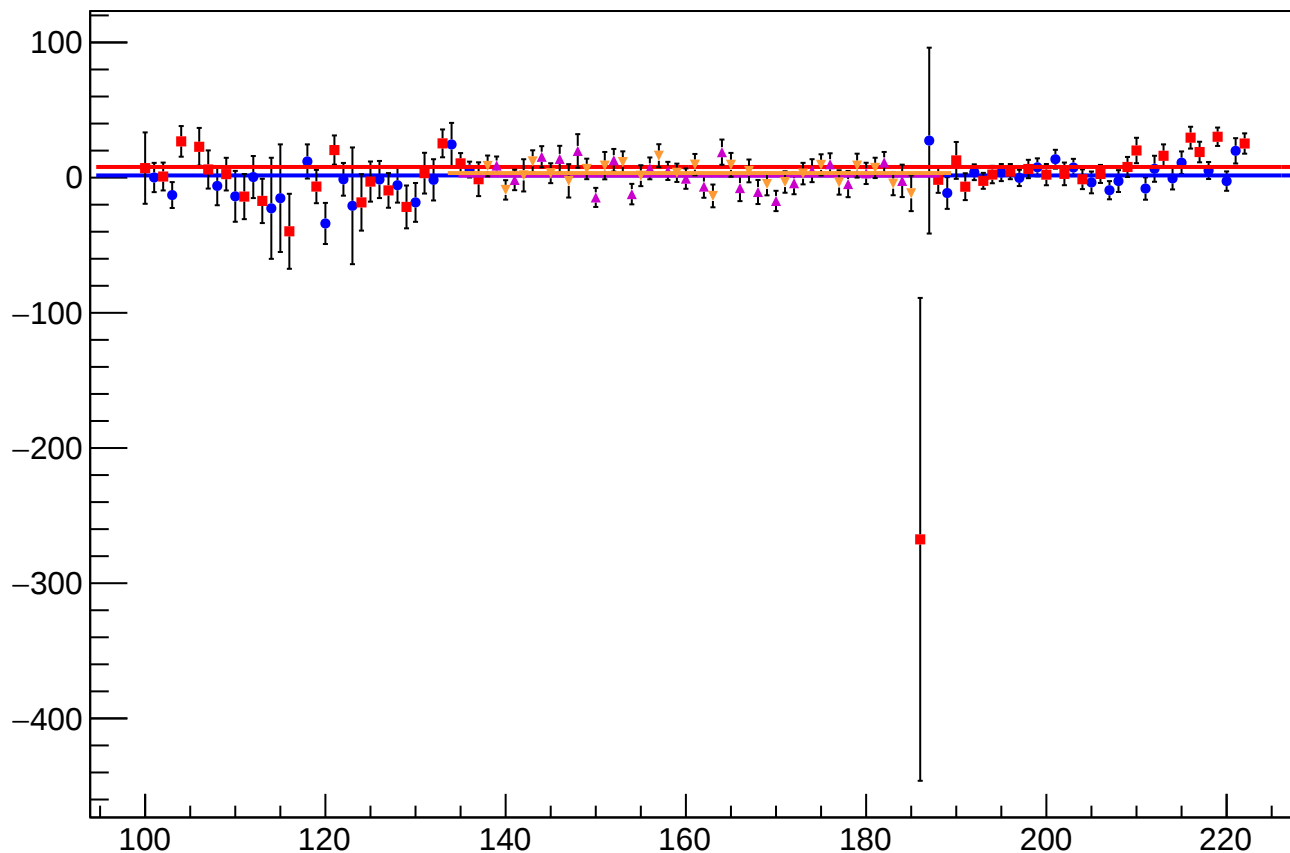
Right Out: 18160.691+/-2.965 χ^2/NDF : 3024557.3/37

All: 10926.738+/-0.958 χ^2/NDF : 20436601.6

- sign 11068.525+/-1.378 χ^2/NDF : 10594430.5/60

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

diff_bpm4acY_mean vs Slug



Right In: 1.626 ± 1.534 χ^2/NDF : 32.4/34

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

Right Out: 7.894 ± 1.519 χ^2/NDF : 66.3/37

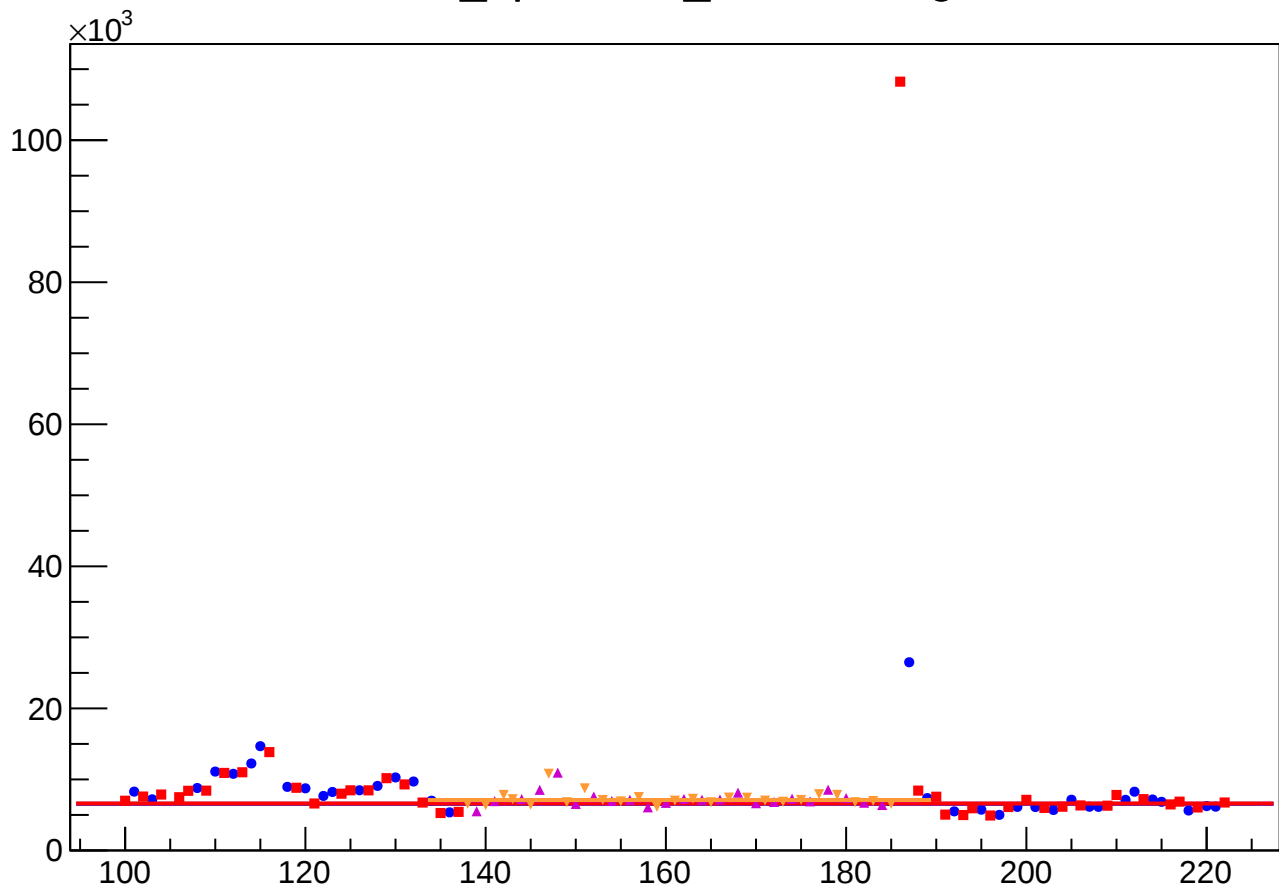
Left In: 1.479 ± 1.710 χ^2/NDF : 36.7/22

+ sign 2.433 ± 1.129 χ^2/NDF : 52.4/59

All: 3.742 ± 0.801 χ^2/NDF : 166.1/120

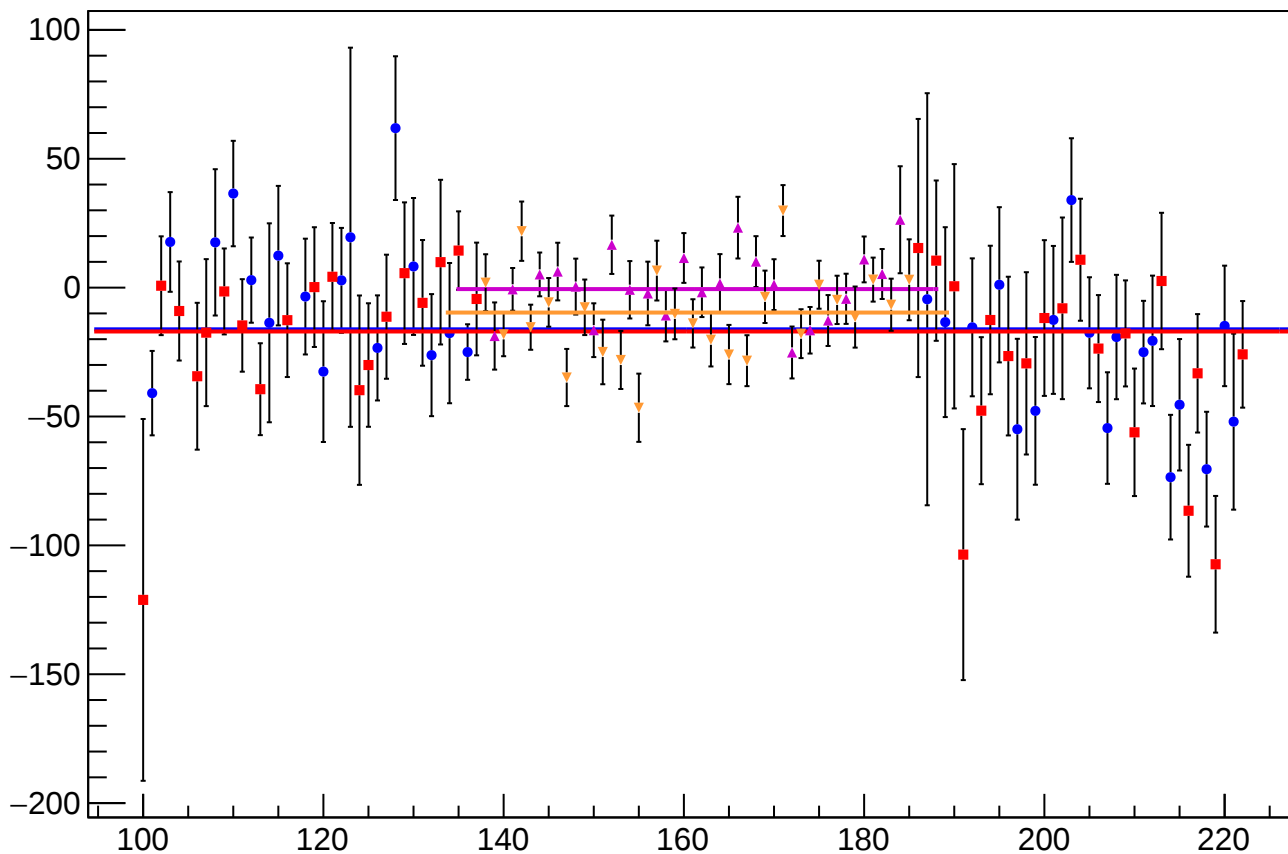
- sign 5.066 ± 1.136 χ^2/NDF : 111.0/60

diff_bpm4acY_rms vs Slug



Right In: 6569.592 ± 1.084 $\chi^2/\text{NDF}: 1678377.3/34$ + sign 6810.938 ± 0.798 $\chi^2/\text{NDF}: 2168414.5/59$
 Left Out: 7096.350 ± 1.179 $\chi^2/\text{NDF}: 381942.1/24$ All: 6806.885 ± 0.566 $\chi^2/\text{NDF}: 4930863.3/12$
 Right Out: 6609.984 ± 1.074 $\chi^2/\text{NDF}: 2171859.5/37$ - sign 6802.784 ± 0.803 $\chi^2/\text{NDF}: 2762397.0/60$
 Left In: 7047.269 ± 1.209 $\chi^2/\text{NDF}: 517433.5/22$

diff_bpm4ecX_mean vs Slug



Right In: -16.176 $\pm$ 3.925 χ^2/NDF : 51.9/34

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

Right Out: -17.014 $\pm$ 3.954 χ^2/NDF : 44.8/37

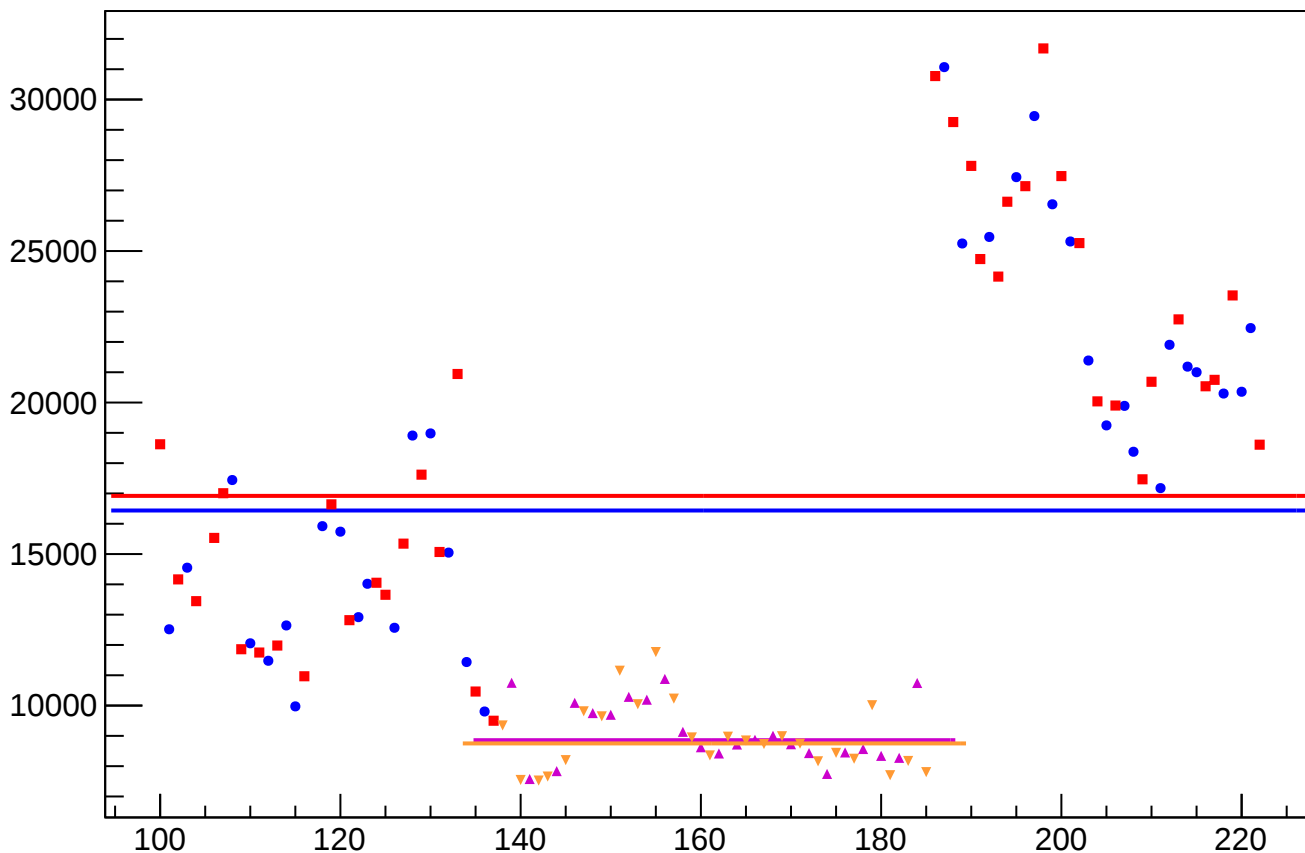
Left In: -0.564 $\pm$ 2.144 χ^2/NDF : 29.7/22

+ sign -11.076 $\pm$ 1.824 χ^2/NDF : 111.9/59

All: -7.798 $\pm$ 1.311 χ^2/NDF : 206.5/120

- sign -4.300 $\pm$ 1.885 χ^2/NDF : 87.9/60

diff_bpm4ecX_rms vs Slug



Right In: 16437.480+/-2.775 χ^2/NDF : 3534169.4/34

Left Out: 8750.420+/-1.457 χ^2/NDF : 463880.1/24

+ sign 10411.694+/-1.290 χ^2/NDF : 10012996.7/59

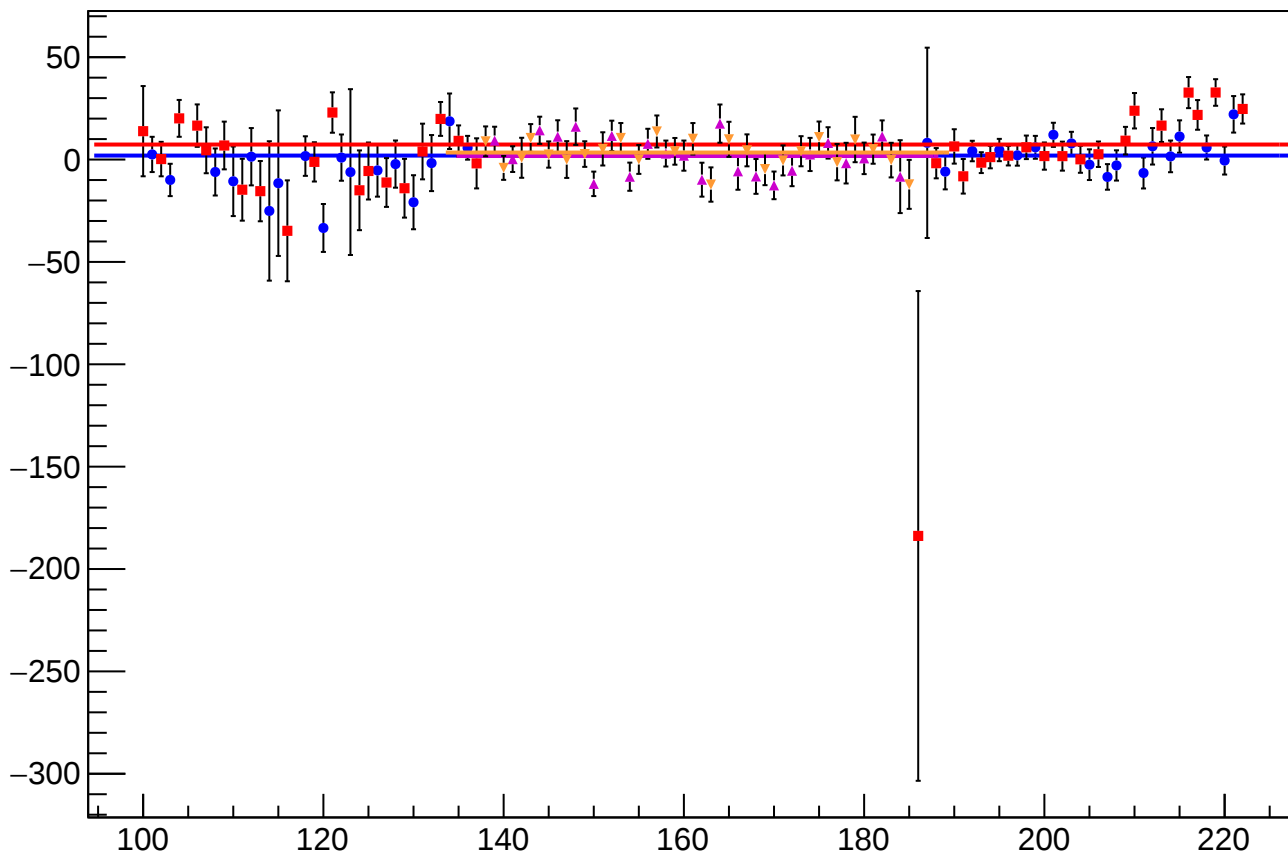
Right Out: 16919.770+/-2.796 χ^2/NDF : 3891927.2/37

All: 10545.650+/-0.927 χ^2/NDF : 20714817.8

Left In: 8857.329+/-1.516 χ^2/NDF : 361778.8/22

- sign 10688.582+/-1.333 χ^2/NDF : 10679534.6/60

diff_bpm4ecY_mean vs Slug



Right In: 1.944 ± 1.362 χ^2/NDF : 36.7/34

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

Right Out: 7.337 ± 1.332 χ^2/NDF : 81.9/37

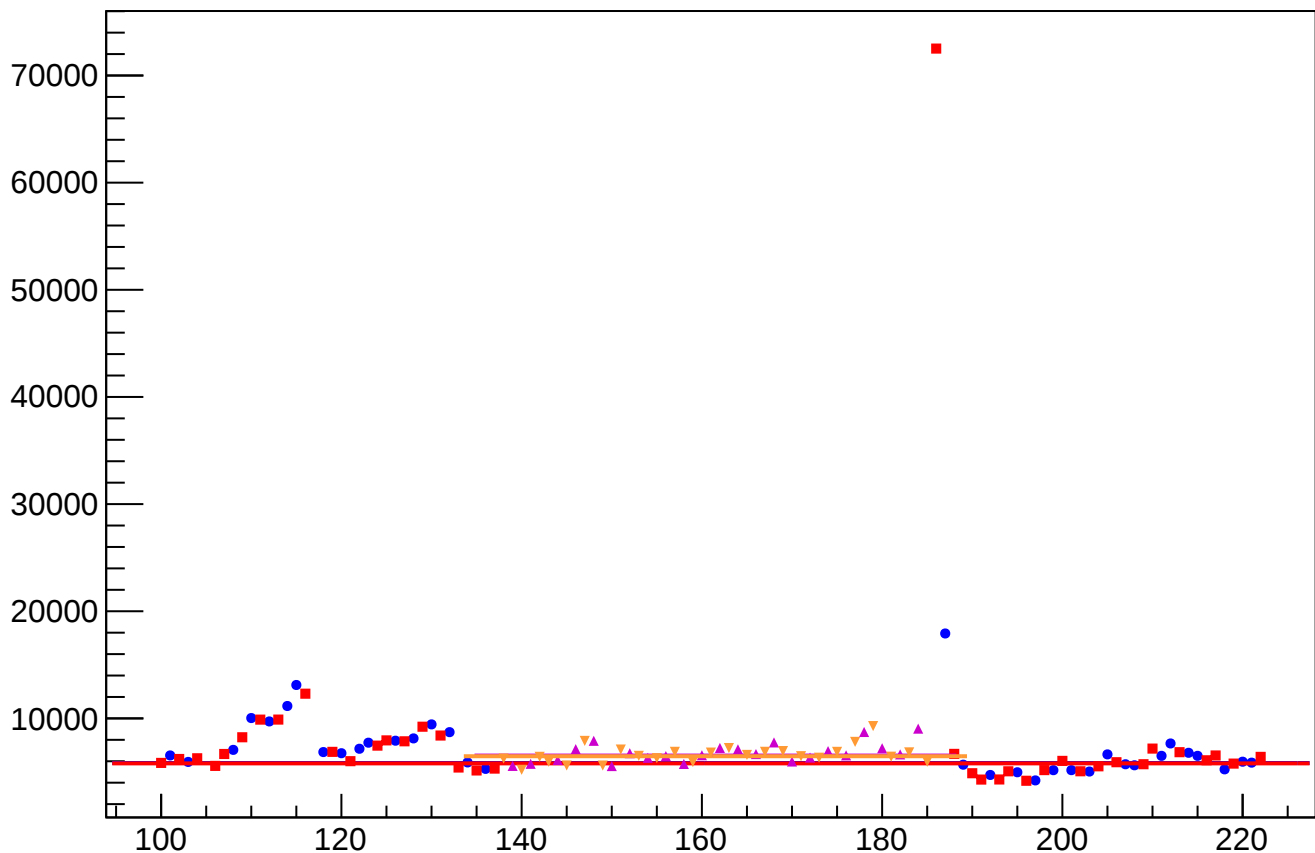
Left In: 1.734 ± 1.586 χ^2/NDF : 33.6/22

+ sign 2.604 ± 1.016 χ^2/NDF : 53.5/59

All: 3.808 ± 0.720 χ^2/NDF : 179.1/120

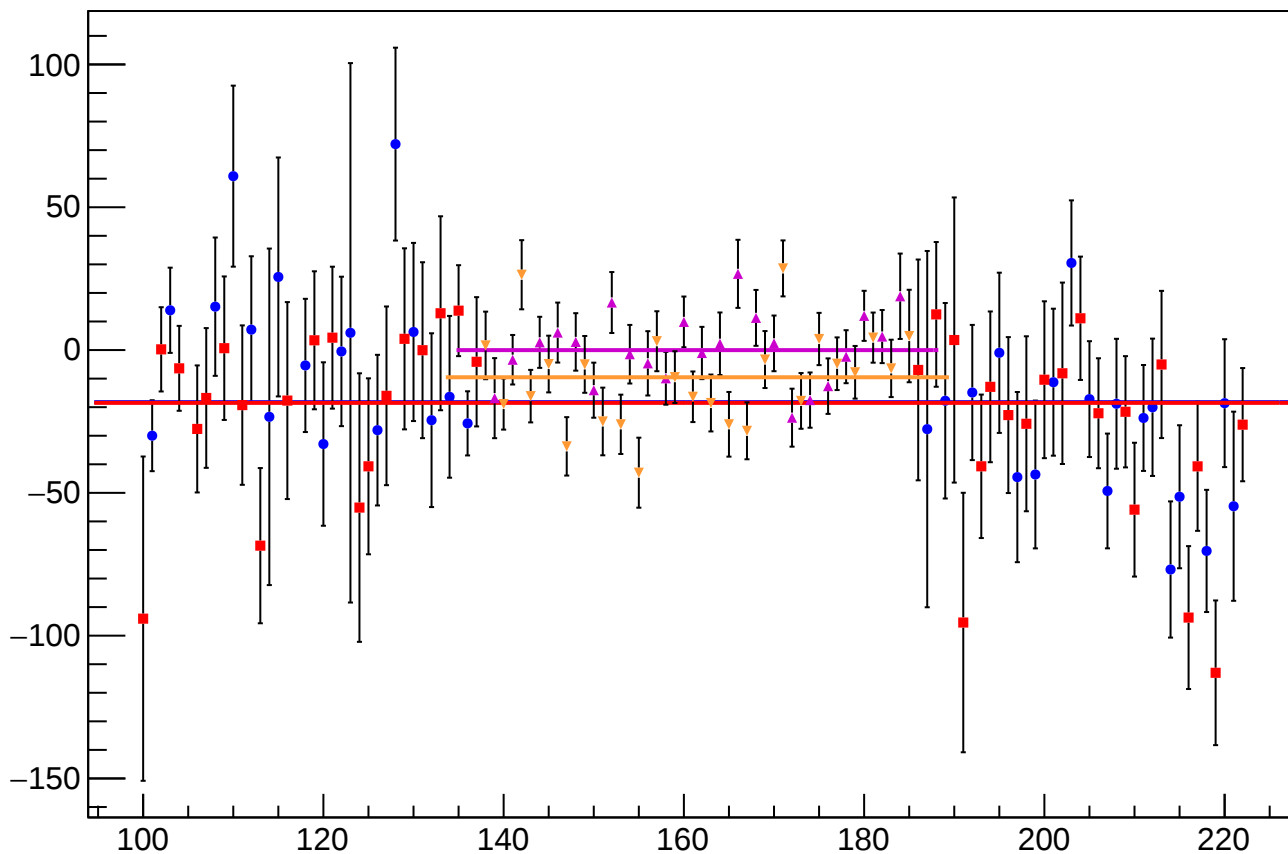
- sign 5.020 ± 1.020 χ^2/NDF : 122.8/60

diff_bpm4ecY_rms vs Slug



Right In: 5837.196+/-0.963	χ^2/NDF : 1674401.6/34	+ sign 6117.340+/-0.718	χ^2/NDF : 2352389.0/59
Left Out: 6468.872+/-1.079	χ^2/NDF : 487187.3/24	All: 6110.398+/-0.509	χ^2/NDF : 5330969.4/12
Right Out: 5801.959+/-0.942	χ^2/NDF : 2265852.4/37	- sign 6103.403+/-0.721	χ^2/NDF : 2978392.9/60
Left In: 6530.954+/-1.121	χ^2/NDF : 464668.6/22		

diff_bpm1X_mean vs Slug



Right In: -18.244 ± 3.935 χ^2/NDF : 49.9/34

Left Out: -9.528 ± 2.015 χ^2/NDF : 59.6/24

Right Out: -18.483 ± 4.010 χ^2/NDF : 51.8/37

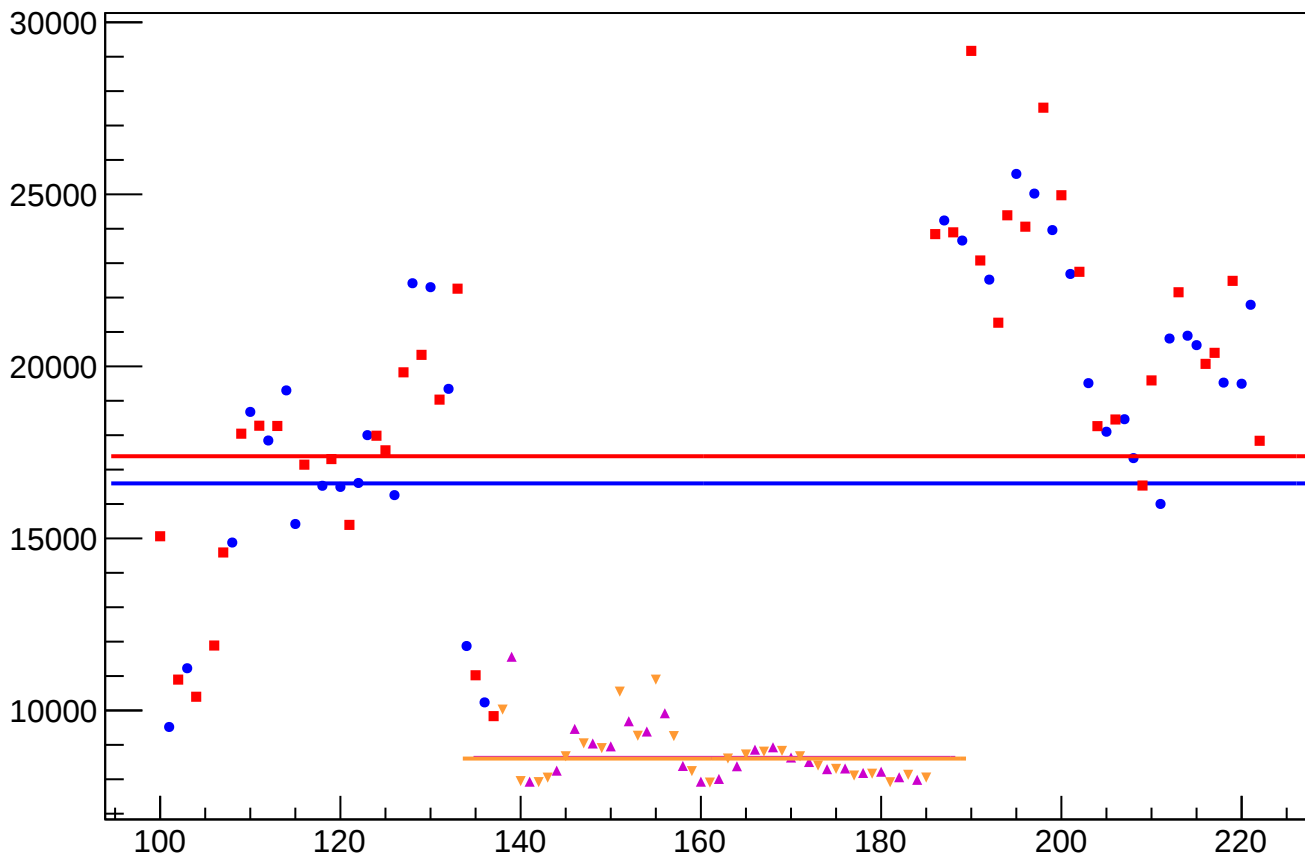
Left In: -0.027 ± 2.080 χ^2/NDF : 29.9/22

+ sign -11.339 ± 1.794 χ^2/NDF : 113.3/59

All: -7.746 ± 1.287 χ^2/NDF : 219.9/120

- sign -3.939 ± 1.846 χ^2/NDF : 98.4/60

diff_bpm1X_rms vs Slug



Right In: 16599.022 $\pm$ 2.782 χ^2 /NDF: 3024376.5/34

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

Right Out: 17388.517 $\pm$ 2.835 χ^2 /NDF: 2925680.2/37

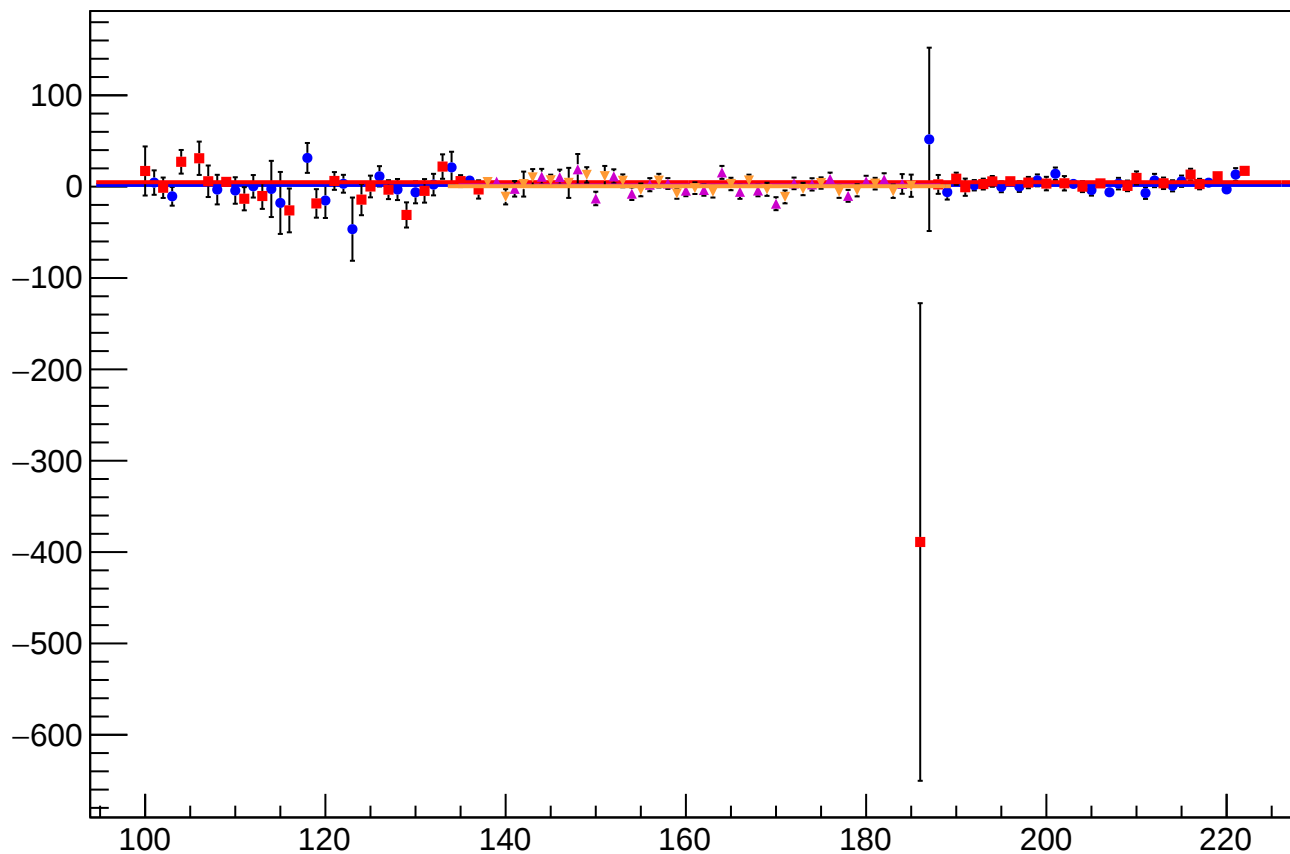
Left In: 8621.975 $\pm$ 1.471 χ^2 /NDF:230824.4/22

+ sign 10263.609 $\pm$ 1.268 χ^2 /NDF: 9817536.2/59

All: 10368.899 $\pm$ 0.910 χ^2 /NDF: 20520934.0

- sign 10480.455 $\pm$ 1.306 χ^2 /NDF: 10689204.7/60

diff_bpm1Y_mean vs Slug



Right In: 1.881 ± 1.304 χ^2/NDF : 26.9/34

Left Out: 0.481 ± 1.419 χ^2/NDF : 19.6/24

Right Out: 4.879 ± 1.258 χ^2/NDF : 37.7/37

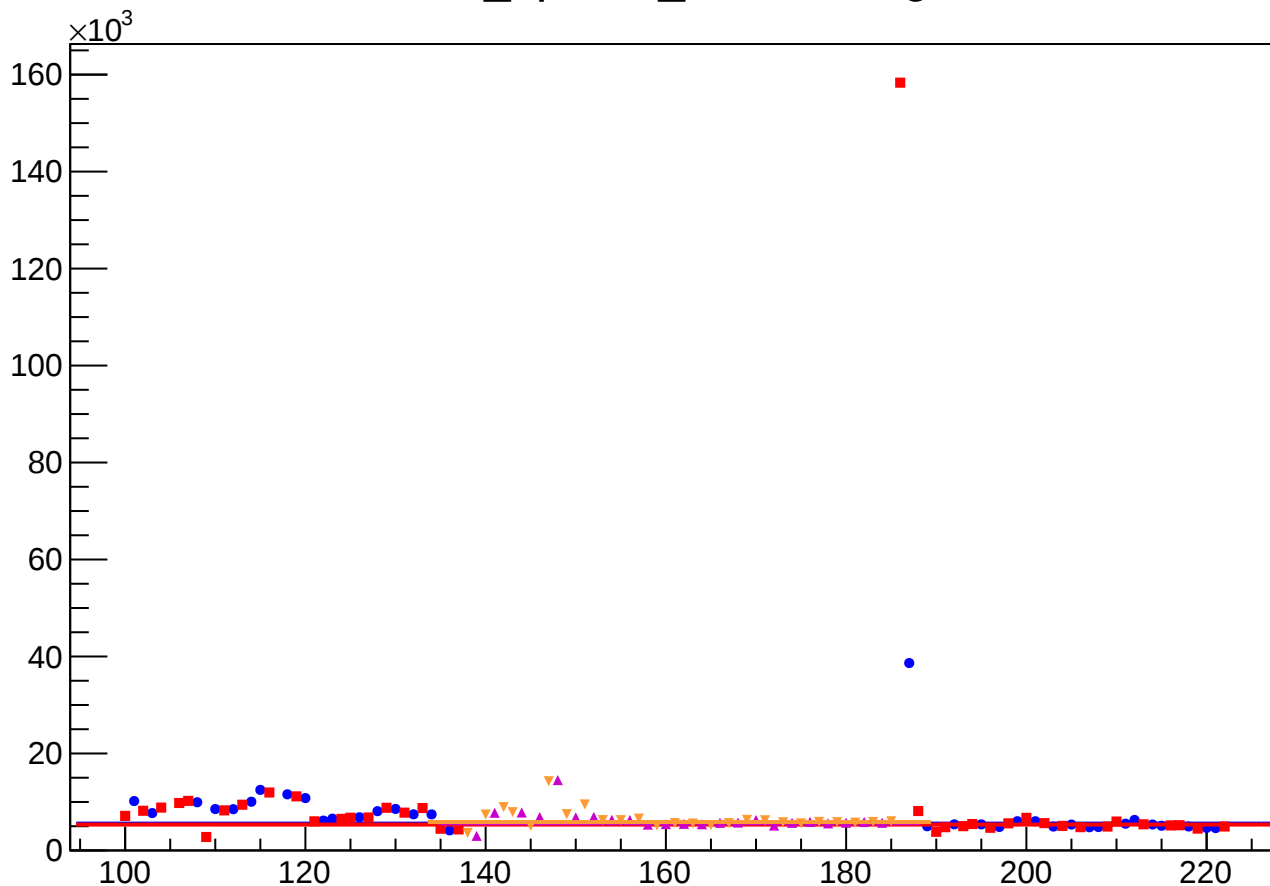
Left In: 1.298 ± 1.406 χ^2/NDF : 33.0/22

+ sign 1.240 ± 0.960 χ^2/NDF : 47.0/59

All: 2.288 ± 0.671 χ^2/NDF : 123.7/120

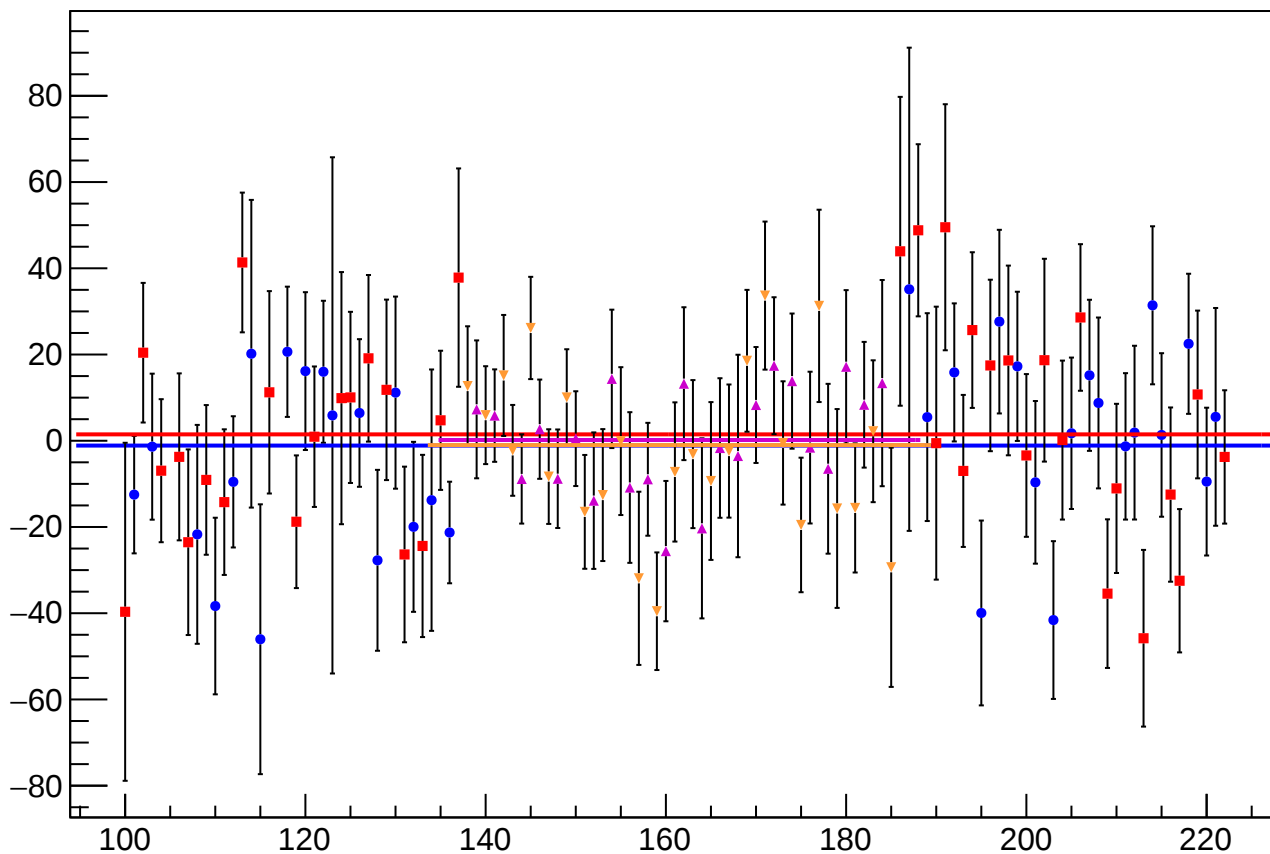
- sign 3.287 ± 0.938 χ^2/NDF : 74.4/60

diff_bpm1Y_rms vs Slug



Right In: 5536.271 ± 0.922 $\chi^2/\text{NDF}: 2282921.5/34$ + sign 5683.839 ± 0.679 $\chi^2/\text{NDF}: 4030219.3/59$
 Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$ All: 5565.471 ± 0.474 $\chi^2/\text{NDF}: 9755092.8/12$
 Right Out: 5337.114 ± 0.890 $\chi^2/\text{NDF}: 3537848.3/37$ - sign 5452.604 ± 0.663 $\chi^2/\text{NDF}: 5665502.8/60$
 Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

diff_bpm11X_mean vs Slug



Right In: -1.118 ± 3.198 χ^2/NDF : 37.3/34

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

Right Out: 1.482 ± 3.151 χ^2/NDF : 51.8/37

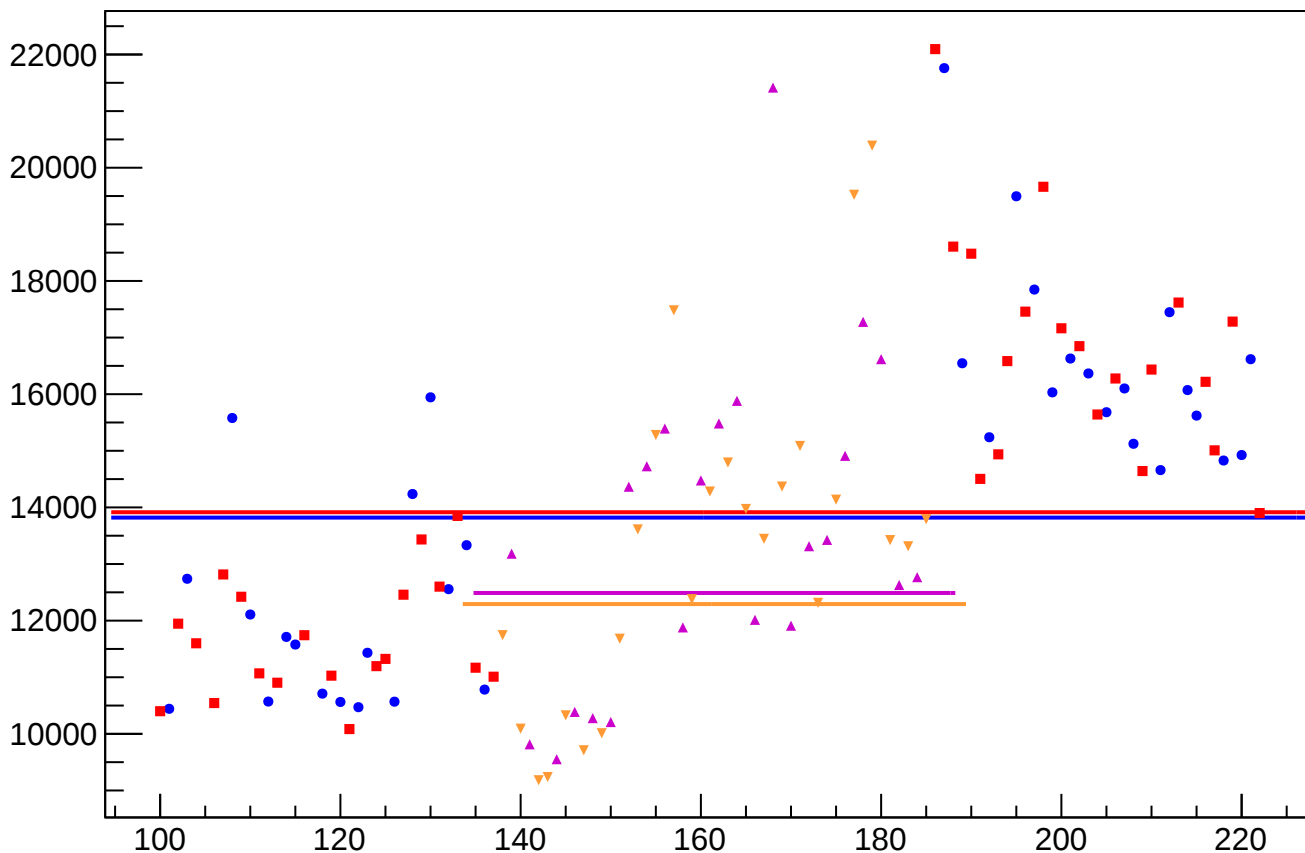
Left In: 0.172 ± 3.067 χ^2/NDF : 12.4/22

+ sign -1.058 ± 2.165 χ^2/NDF : 70.7/59

All: -0.138 ± 1.542 χ^2/NDF : 135.3/120

- sign 0.810 ± 2.198 χ^2/NDF : 64.2/60

diff_bpm11X_rms vs Slug



Right In: 13820.071+/-2.261 χ^2/NDF : 1362567.5/34

Left Out: 12292.583+/-2.080 χ^2/NDF : 1502548.3/24

Right Out: 13914.797+/-2.228 χ^2/NDF : 1496398.8/37

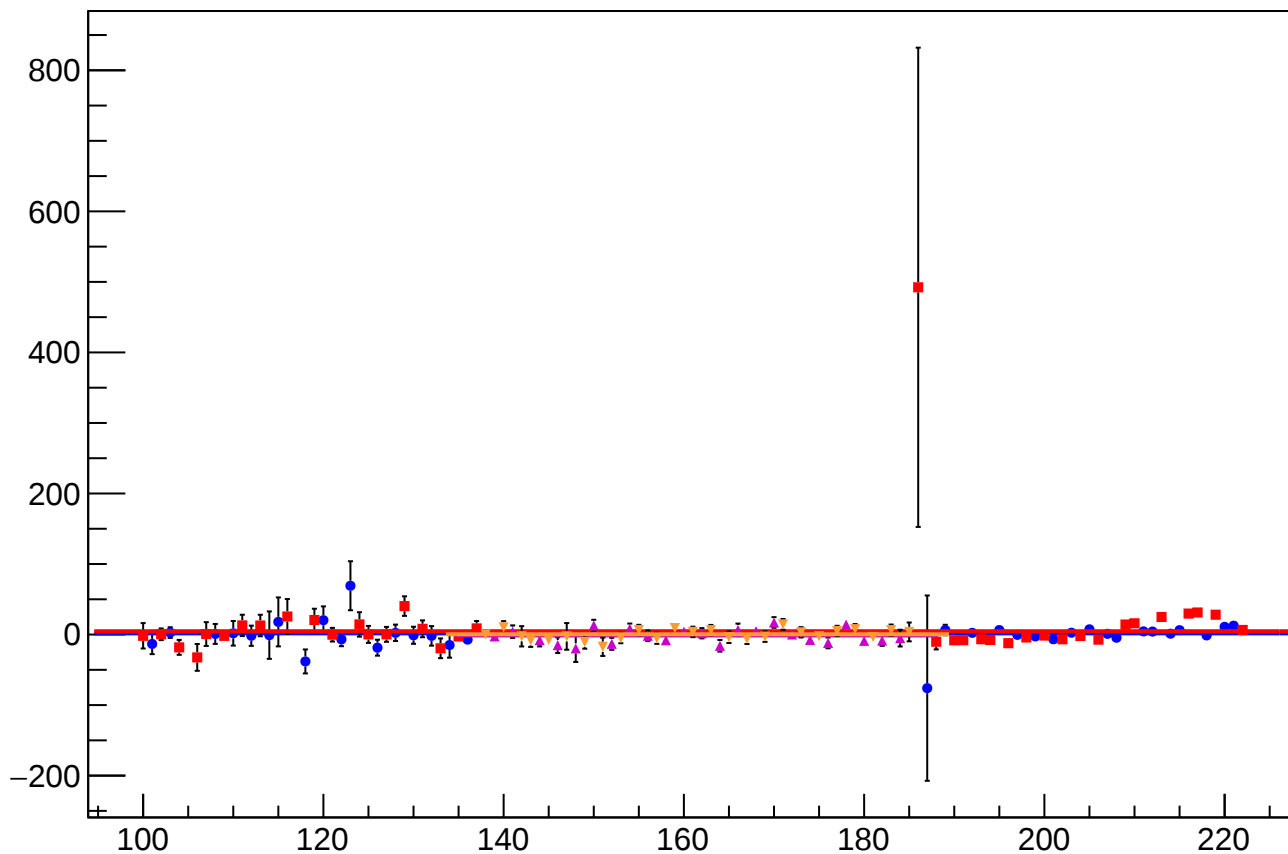
Left In: 12488.821+/-2.169 χ^2/NDF : 1354485.4/22

+ sign 12992.715+/-1.531 χ^2/NDF : 3112306.9/59

All: 13086.269+/-1.091 χ^2/NDF : 6181113.5/1

- sign 13182.688+/-1.554 χ^2/NDF : 3061222.3/60

diff_bpm11Y_mean vs Slug



Right In: 1.687 ± 1.086 χ^2/NDF : 36.4/34

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

Right Out: 4.738 ± 1.085 χ^2/NDF : 177.4/37

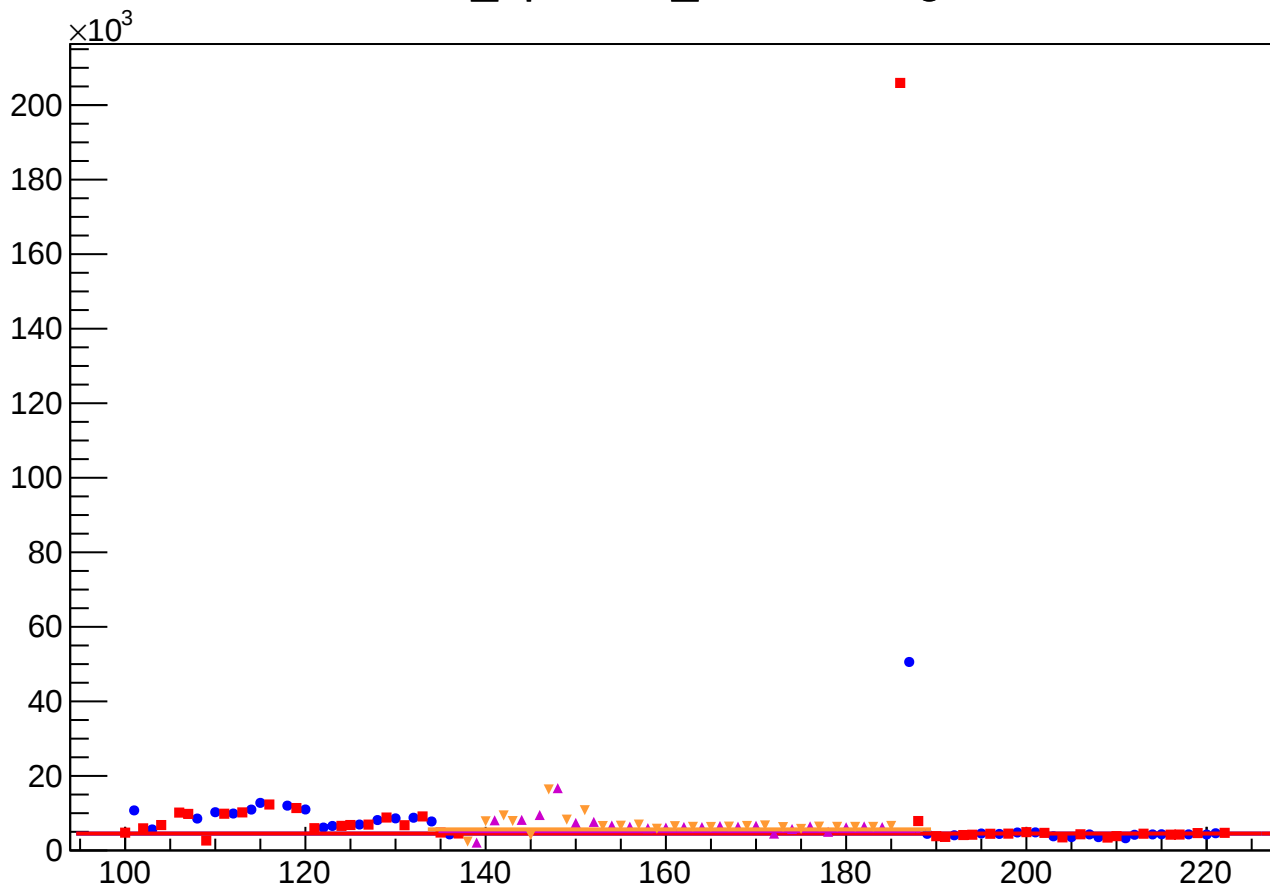
Left In: -1.278 ± 1.386 χ^2/NDF : 34.0/22

+ sign 1.222 ± 0.866 χ^2/NDF : 56.2/59

All: 1.845 ± 0.608 χ^2/NDF : 280.3/120

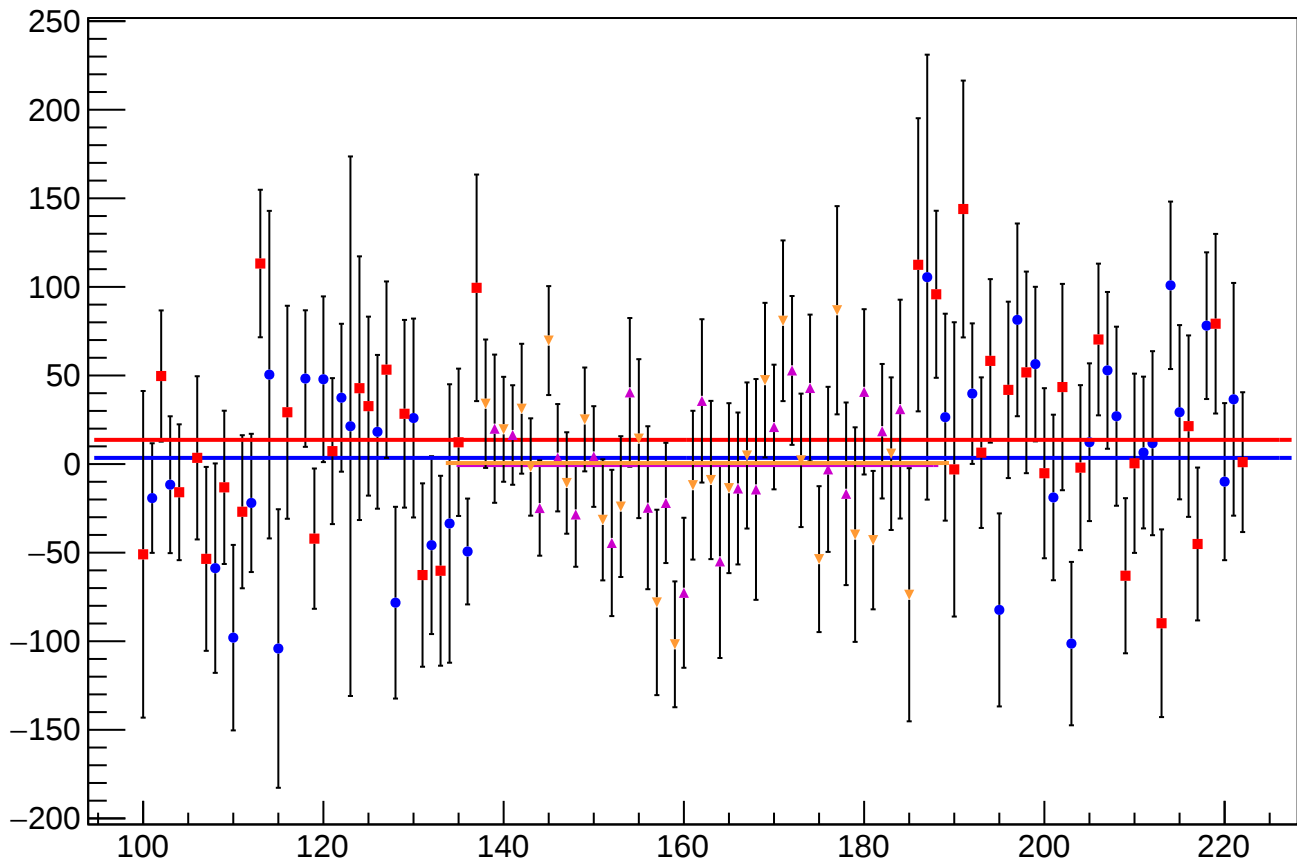
- sign 2.451 ± 0.854 χ^2/NDF : 223.0/60

diff_bpm11Y_rms vs Slug



Right In: 4521.535 ± 0.768 $\chi^2/\text{NDF}: 3477761.6/34$ + sign 4934.728 ± 0.612 $\chi^2/\text{NDF}: 8396410.1/59$
 Left Out: 5655.639 ± 1.014 $\chi^2/\text{NDF}: 4124124.3/24$ All: 4857.946 ± 0.430 $\chi^2/\text{NDF}: 18014554.8/1$
 Right Out: 4539.561 ± 0.767 $\chi^2/\text{NDF}: 3971591.9/37$ - sign 4783.221 ± 0.604 $\chi^2/\text{NDF}: 9587115.8/60$
 Left In: 5180.743 ± 0.980 $\chi^2/\text{NDF}: 5350053.6/22$

diff_bpm12X_mean vs Slug



Right In: 3.483 ± 8.020 $\chi^2/\text{NDF}: 40.6/34$

Left Out: 0.580 ± 7.691 $\chi^2/\text{NDF}: 31.0/24$

Right Out: 13.668 ± 7.901 $\chi^2/\text{NDF}: 42.0/37$

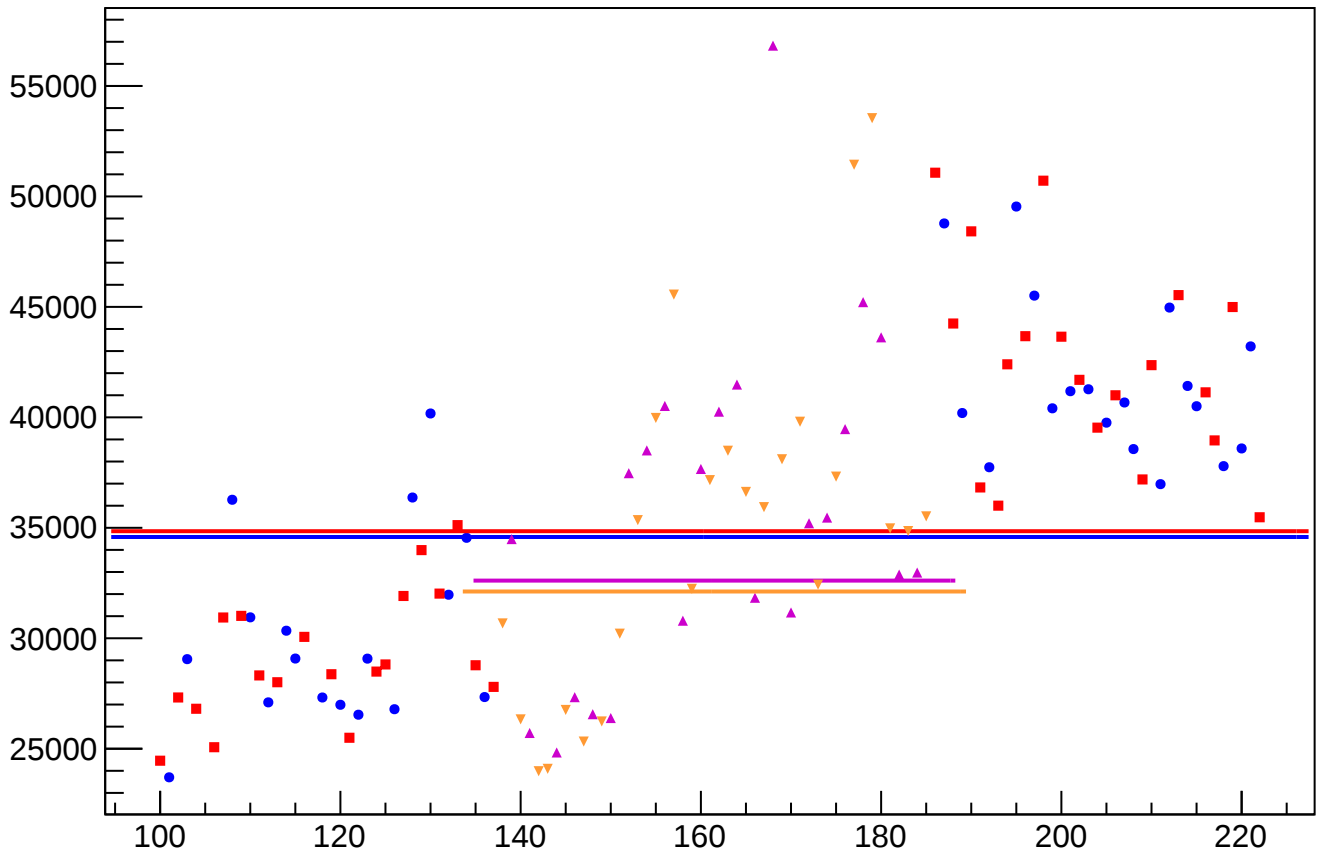
Left In: -0.565 ± 8.015 $\chi^2/\text{NDF}: 14.3/22$

+ sign 1.971 ± 5.551 $\chi^2/\text{NDF}: 71.7/59$

All: 4.280 ± 3.951 $\chi^2/\text{NDF}: 129.9/120$

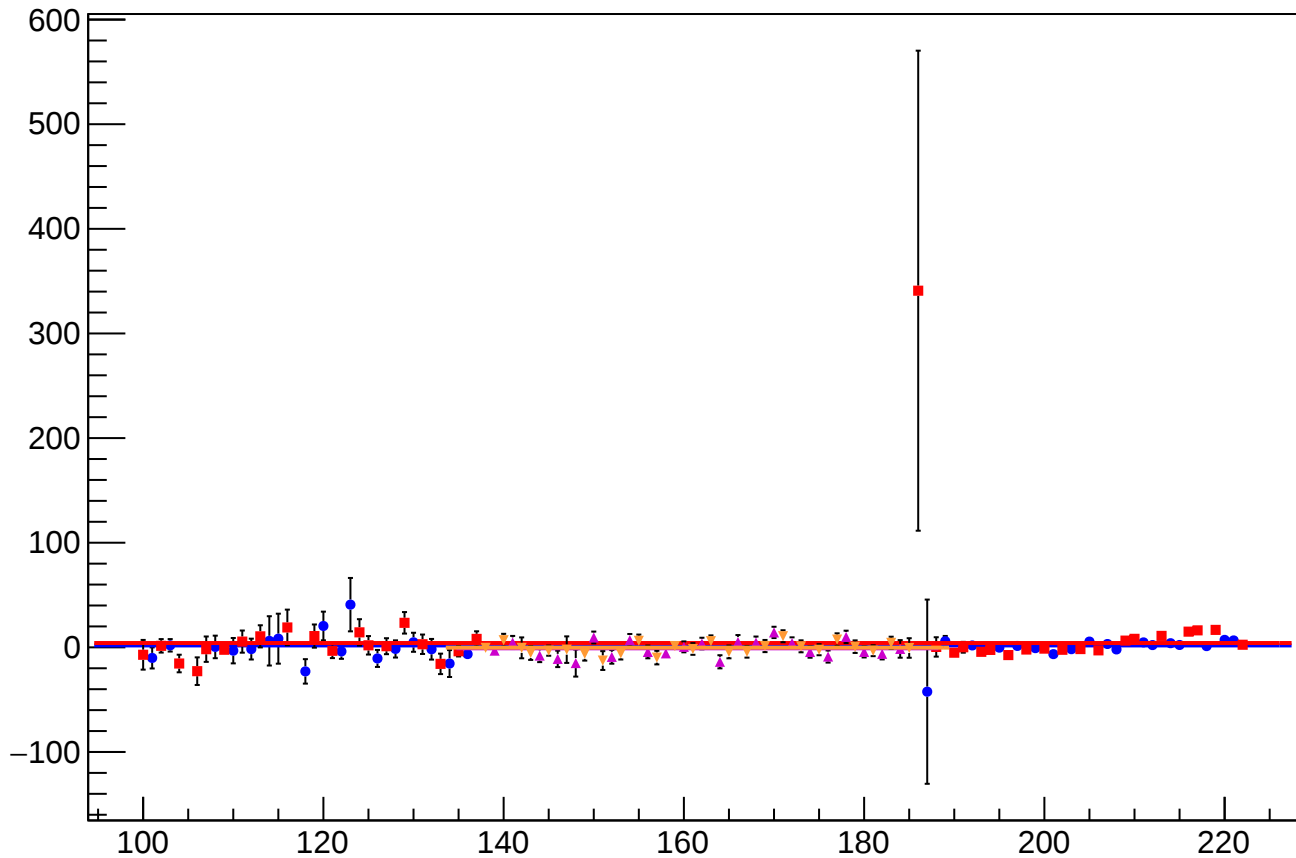
- sign 6.653 ± 5.627 $\chi^2/\text{NDF}: 57.9/60$

diff_bpm12X_rms vs Slug



Right In: 34584.271+/-5.671	χ^2/NDF : 1500616.5/34	+ sign 33299.080+/-3.925	χ^2/NDF : 3135956.6/59
Left Out: 32117.184+/-5.438	χ^2/NDF : 1536740.0/24	All: 33518.509+/-2.794	χ^2/NDF : 6226718.8/...
Right Out: 34845.947+/-5.587	χ^2/NDF : 1607012.9/37	- sign 33743.973+/-3.979	χ^2/NDF : 3084425.3/60
Left In: 32610.108+/-5.667	χ^2/NDF : 1398475.8/22		

diff_bpm12Y_mean vs Slug



Right In: 1.838 ± 0.614 χ^2/NDF : 47.3/34

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: 4.135 ± 0.639 χ^2/NDF : 168.1/37

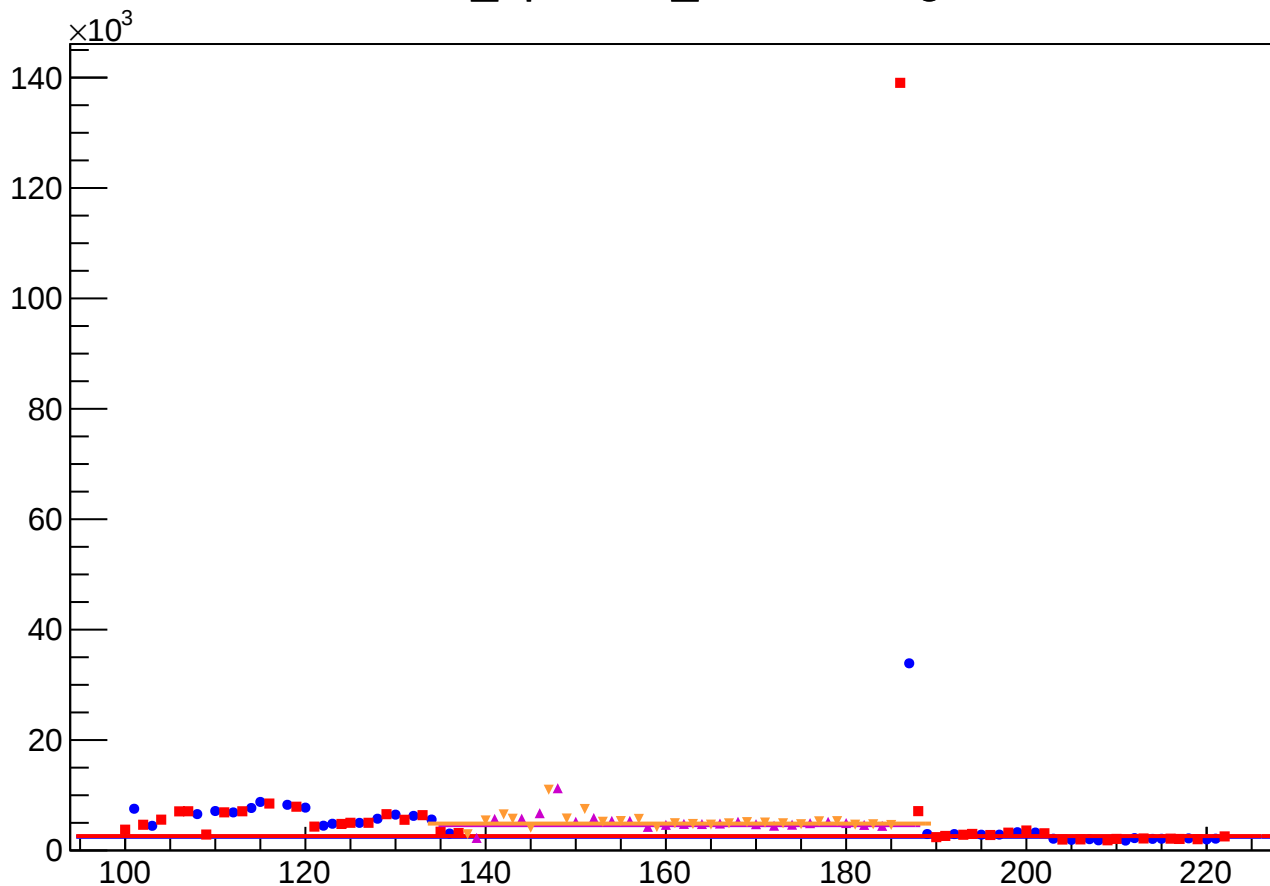
Left In: -0.925 ± 1.154 χ^2/NDF : 36.1/22

+ sign 1.387 ± 0.544 χ^2/NDF : 67.8/59

All: 2.146 ± 0.390 χ^2/NDF : 290.8/120

- sign 2.947 ± 0.559 χ^2/NDF : 219.0/60

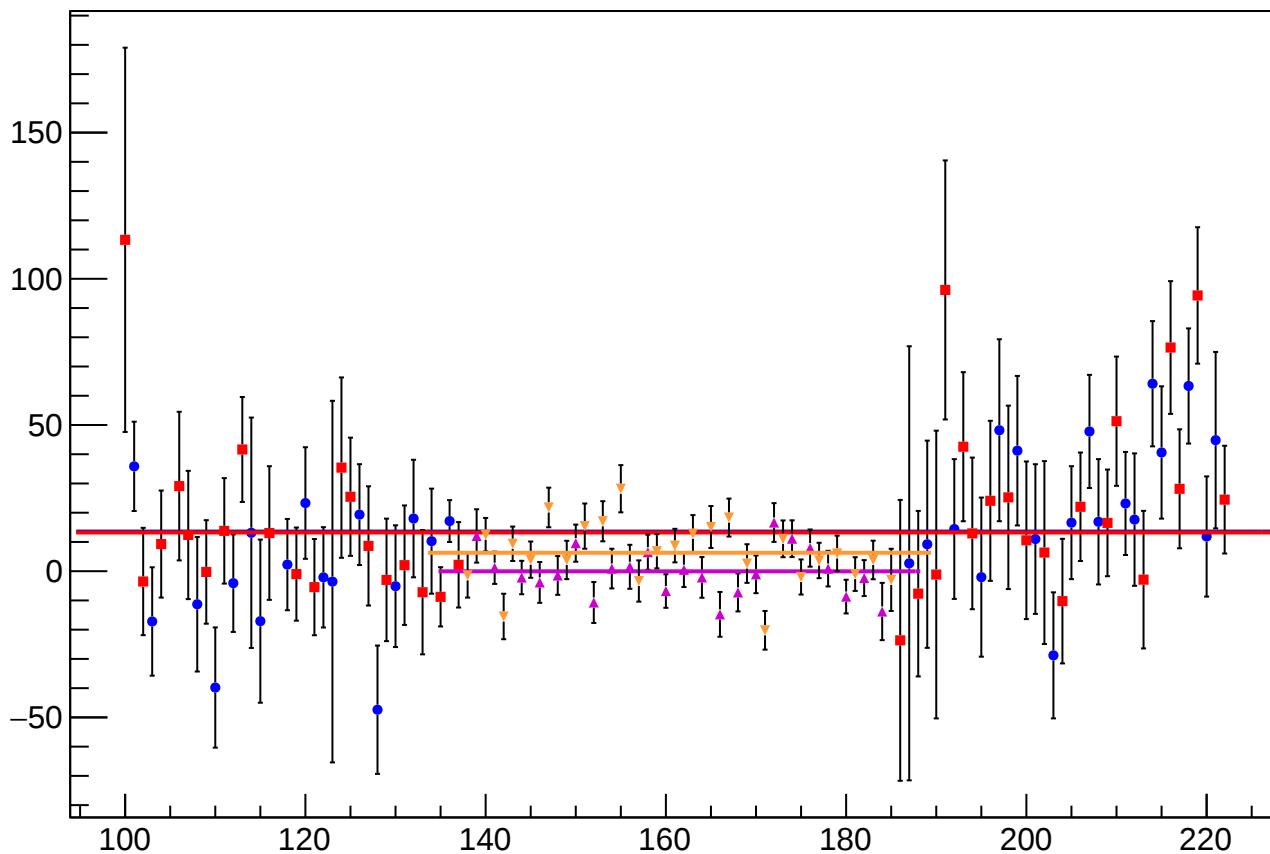
diff_bpm12Y_rms vs Slug



Right In: 2474.099 ± 0.434 χ^2/NDF : 5720493.4/34
 Left Out: 4866.528 ± 0.829 χ^2/NDF : 1511486.2/24
 Right Out: 2604.392 ± 0.452 χ^2/NDF : 6200364.7/37
 Left In: 4582.193 ± 0.816 χ^2/NDF : 2478681.0/22

+ sign 2988.959 ± 0.385 χ^2/NDF : 13762712.9/59
 All: 3027.818 ± 0.276 χ^2/NDF : 26960176.5/100
 - sign 3068.846 ± 0.395 χ^2/NDF : 13176491.0/60

diff_bpm16X_mean vs Slug



Right In: 13.545 ± 3.270 χ^2/NDF : 50.4/34

Left Out: 6.302 ± 1.313 χ^2/NDF : 56.7/24

Right Out: 13.247 ± 3.381 χ^2/NDF : 48.9/37

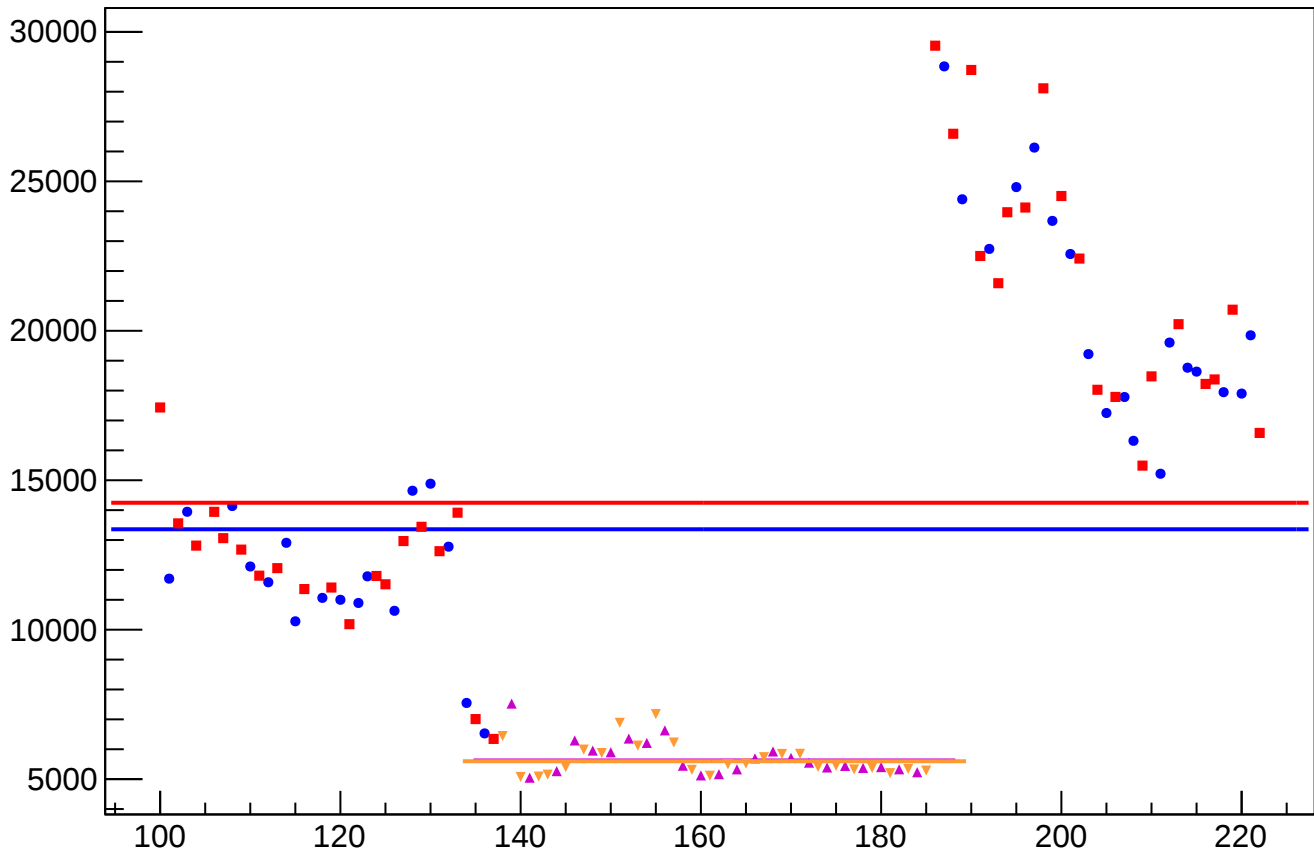
Left In: -0.044 ± 1.358 χ^2/NDF : 30.0/22

+ sign 7.307 ± 1.218 χ^2/NDF : 111.3/59

All: 4.647 ± 0.876 χ^2/NDF : 213.4/120

- sign -1.801 ± 1.260 χ^2/NDF : 92.2/60

diff_bpm16X_rms vs Slug



Right In: 13359.561+/-2.313 χ^2/NDF : 5242524.2/34

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

Right Out: 14247.527+/-2.391 χ^2/NDF : 5032120.7/37

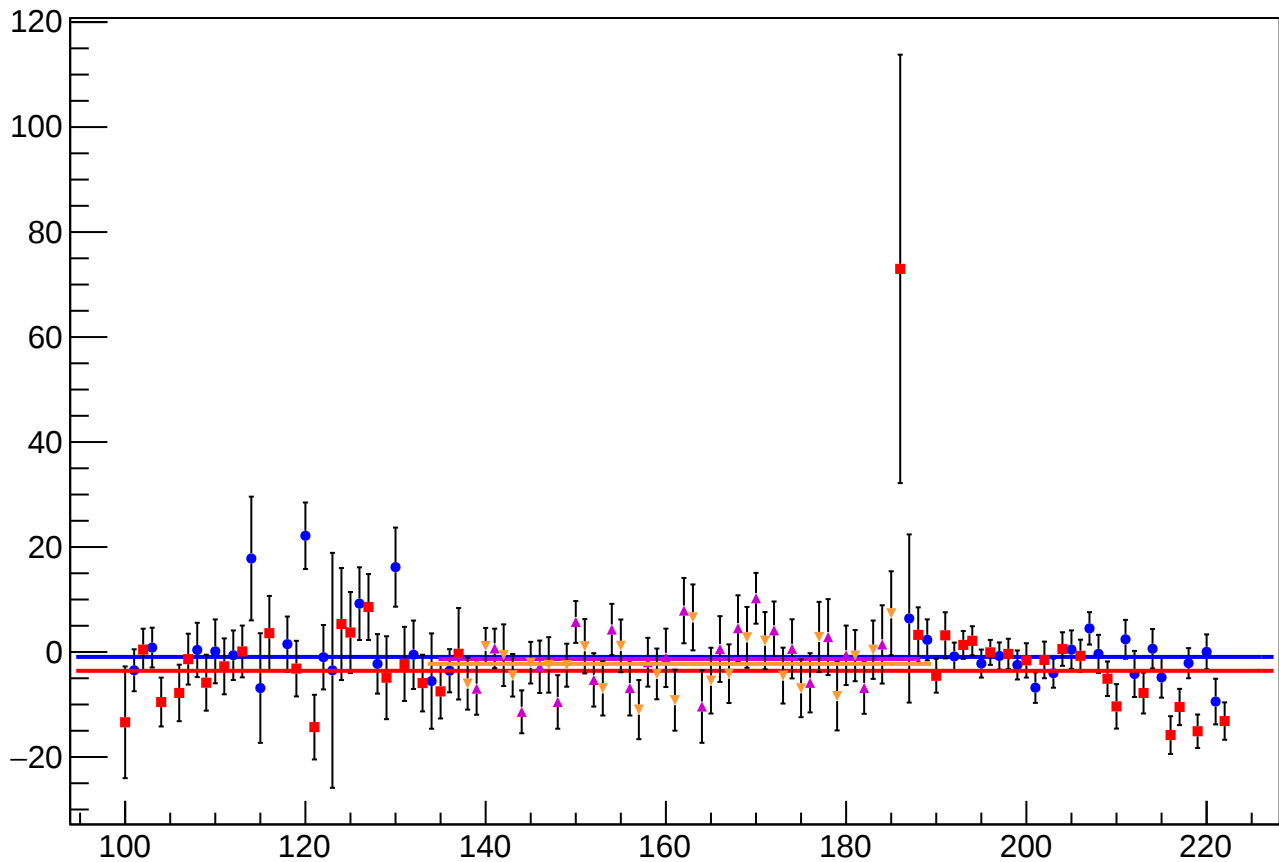
Left In: 5625.163+/-0.960 χ^2/NDF :272563.5/22

+ sign 6675.432+/-0.861 χ^2/NDF : 15225829.7/59

All: 6746.368+/-0.619 χ^2/NDF : 31743019.1/100

- sign 6822.262+/-0.891 χ^2/NDF : 16503150.3/60

diff_bpm16Y_mean vs Slug



Right In: -0.932 ± 0.677 χ^2/NDF : 41.8/34

Left Out: -2.262 ± 1.030 χ^2/NDF : 15.5/24

Right Out: -3.577 ± 0.667 χ^2/NDF : 77.3/37

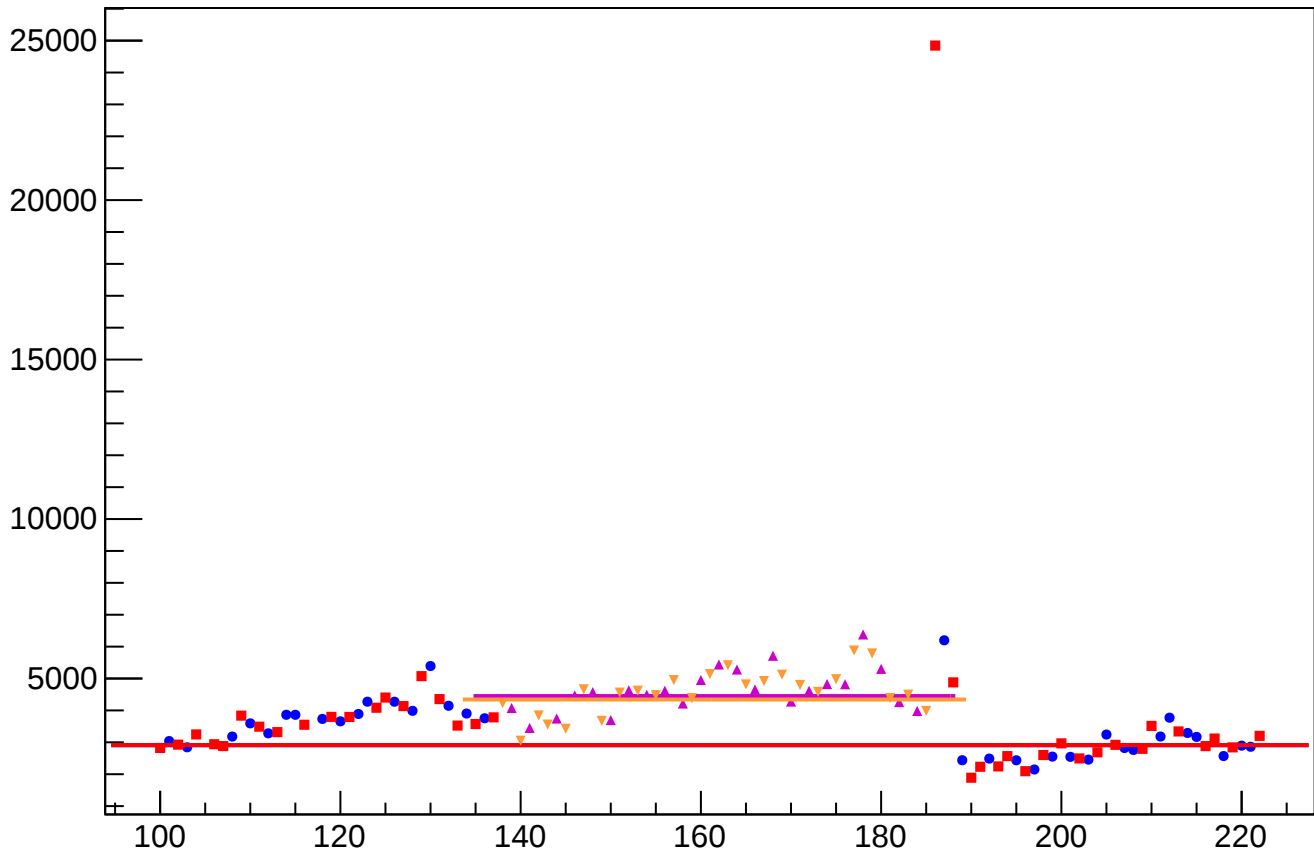
Left In: -1.328 ± 1.082 χ^2/NDF : 30.6/22

+ sign -1.333 ± 0.566 χ^2/NDF : 58.5/59

All: -2.142 ± 0.401 χ^2/NDF : 173.6/120

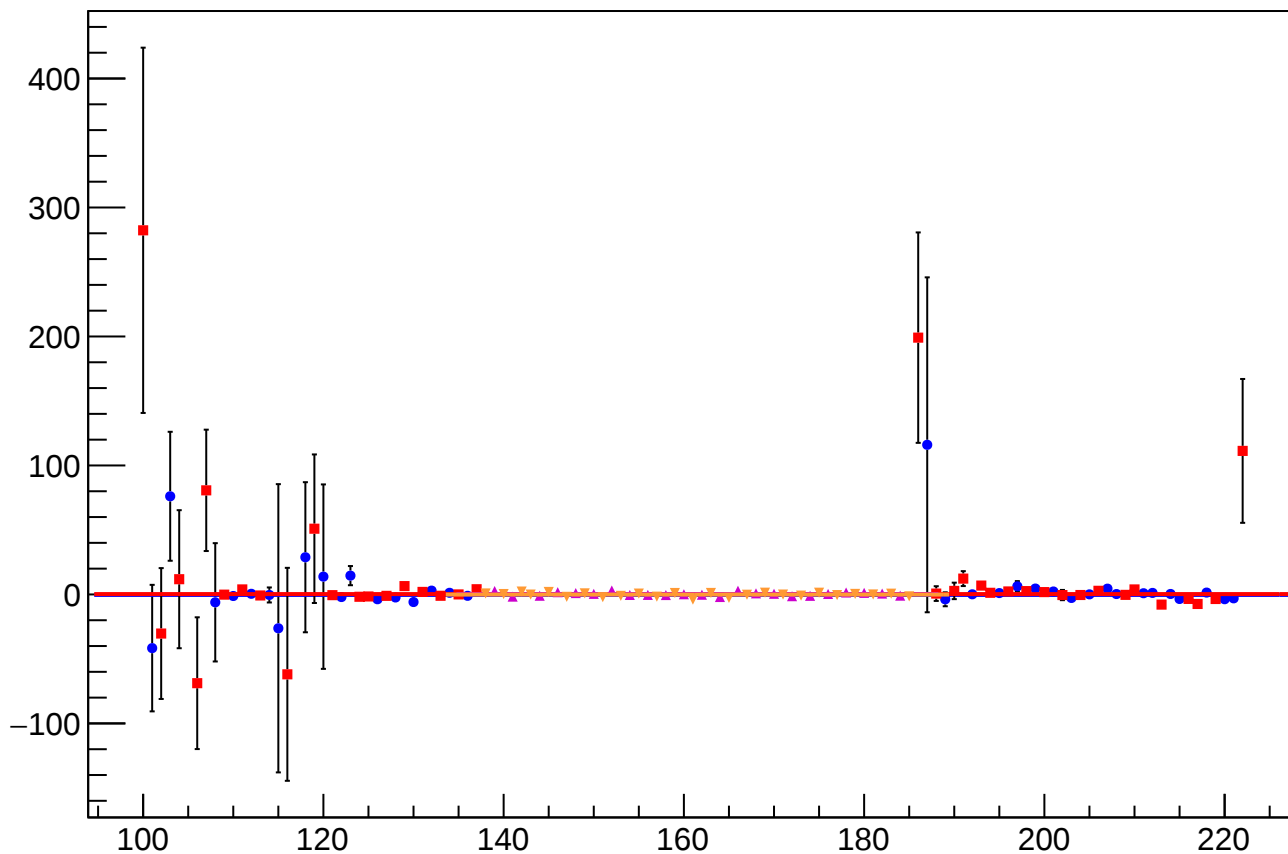
- sign -2.957 ± 0.568 χ^2/NDF : 111.0/60

diff_bpm16Y_rms vs Slug



Right In: 2908.342 $\pm$ 0.479 χ^2 /NDF: 1446747.5/34 + sign 3340.941 $\pm$ 0.400 χ^2 /NDF: 5147523.2/59
Left Out: 4342.635 $\pm$ 0.728 χ^2 /NDF: 993035.5/24 All: 3338.674 $\pm$ 0.283 χ^2 /NDF: 11126073.5/1
Right Out: 2912.676 $\pm$ 0.472 χ^2 /NDF: 2360617.2/37 - sign 3336.388 $\pm$ 0.402 χ^2 /NDF: 5978485.8/60
Left In: 4450.007 $\pm$ 0.765 χ^2 /NDF: 693229.8/22

diff_bpm1p02bX_mean vs Slug



Right In: -0.371 ± 0.501 χ^2/NDF : 36.8/34

Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24

Right Out: 0.278 ± 0.513 χ^2/NDF : 66.0/37

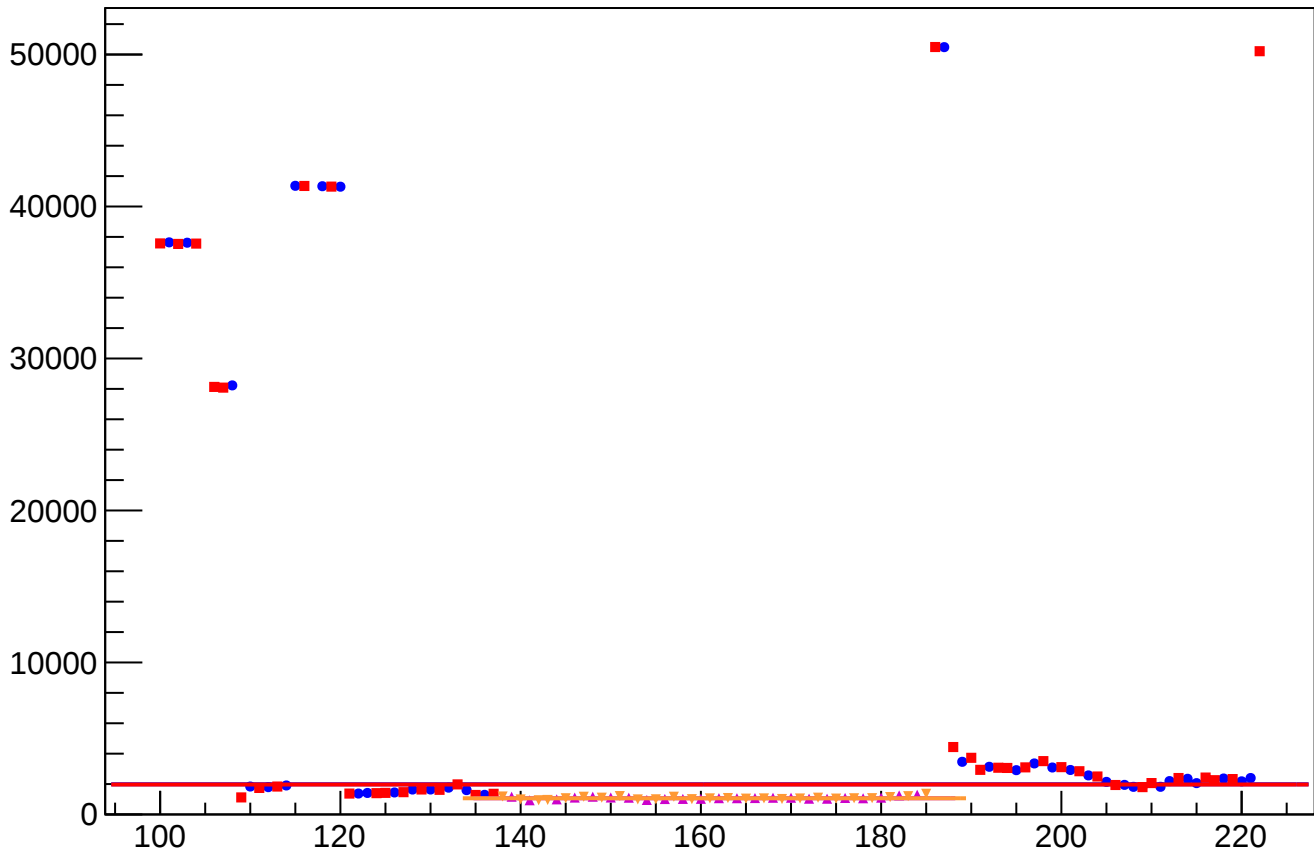
Left In: 0.259 ± 0.257 χ^2/NDF : 27.2/22

+ sign -0.147 ± 0.223 χ^2/NDF : 71.5/59

All: 0.052 ± 0.160 χ^2/NDF : 166.4/120

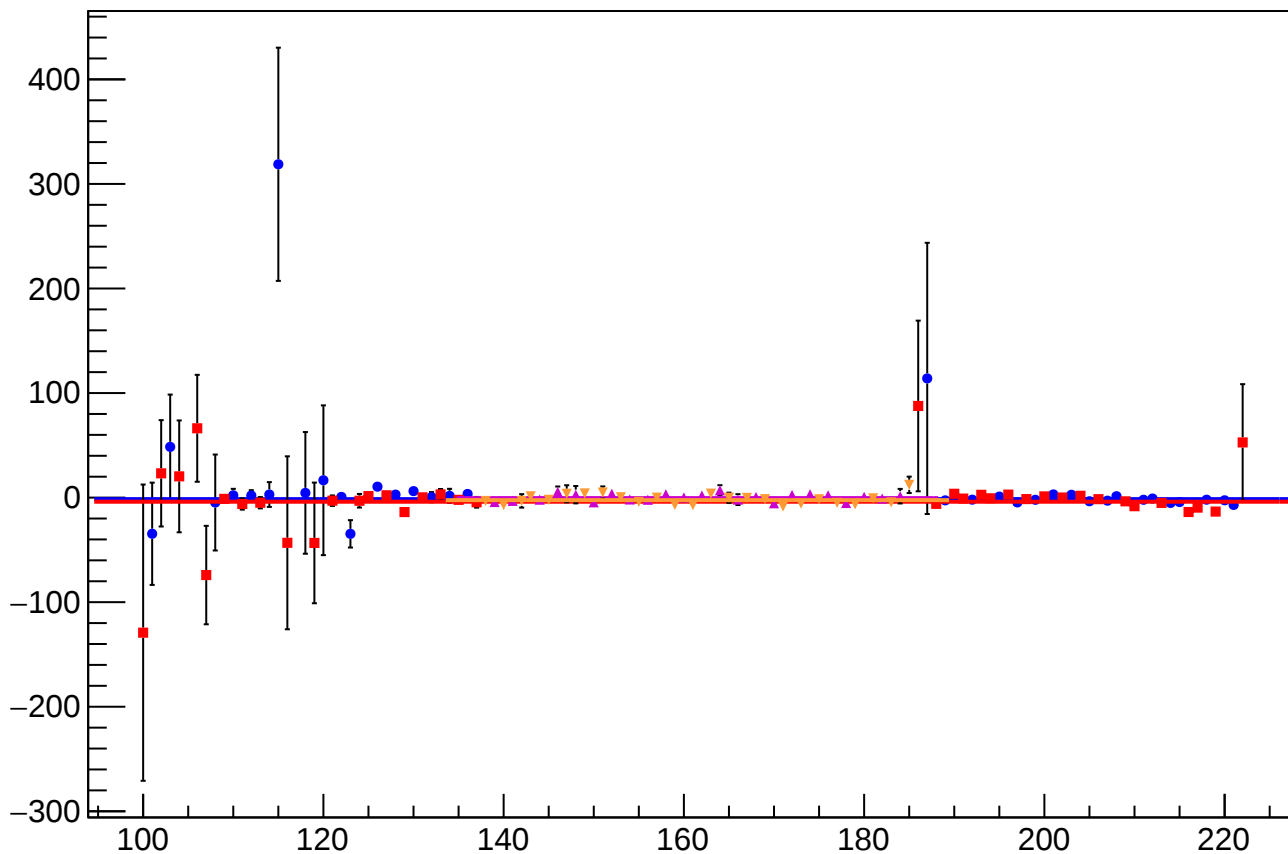
- sign 0.263 ± 0.230 χ^2/NDF : 93.2/60

diff_bpm1p02bX_rms vs Slug



Right In: 1984.810+/-0.354 χ^2/NDF : 7089334.4/34 + sign 1247.290+/-0.158 χ^2/NDF : 12693243.2/59
 Left Out: 1064.701+/-0.176 χ^2/NDF : 186511.5/24 All: 1247.530+/-0.113 χ^2/NDF : 27862971.1/100
 Right Out: 1969.998+/-0.362 χ^2/NDF : 10036408.0/37 - sign 1247.785+/-0.162 χ^2/NDF : 15169723.1/60
 Left In: 1066.255+/-0.182 χ^2/NDF : 164232.1/22

diff_bpm1p02bY_mean vs Slug



Right In: -1.447 ± 0.416 χ^2/NDF : 68.8/34

Left Out: -2.422 ± 0.811 χ^2/NDF : 21.2/24

Right Out: -3.933 ± 0.446 χ^2/NDF : 149.6/37

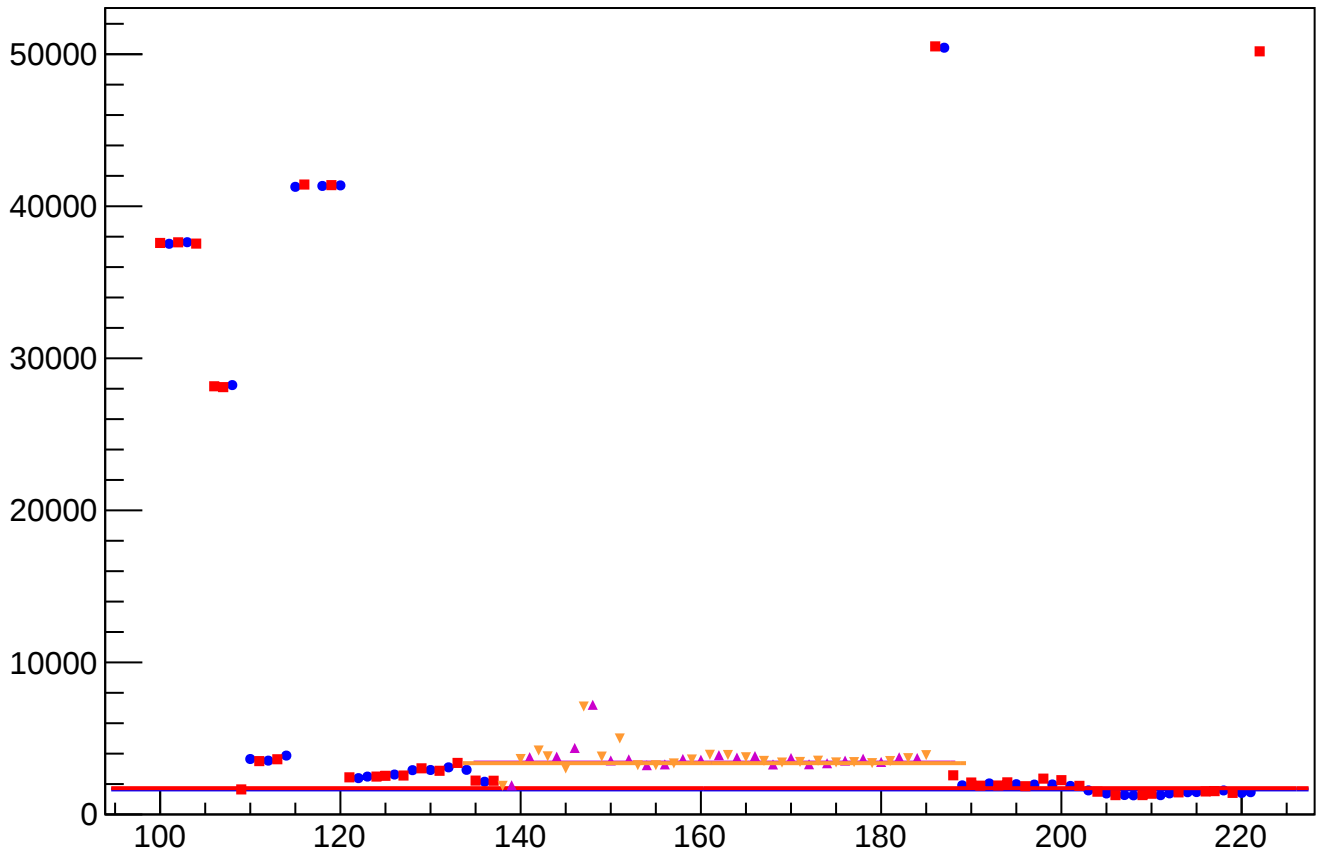
Left In: -0.468 ± 0.843 χ^2/NDF : 15.5/22

+ sign -1.651 ± 0.370 χ^2/NDF : 91.2/59

All: -2.366 ± 0.270 χ^2/NDF : 277.4/120

- sign -3.176 ± 0.394 χ^2/NDF : 178.3/60

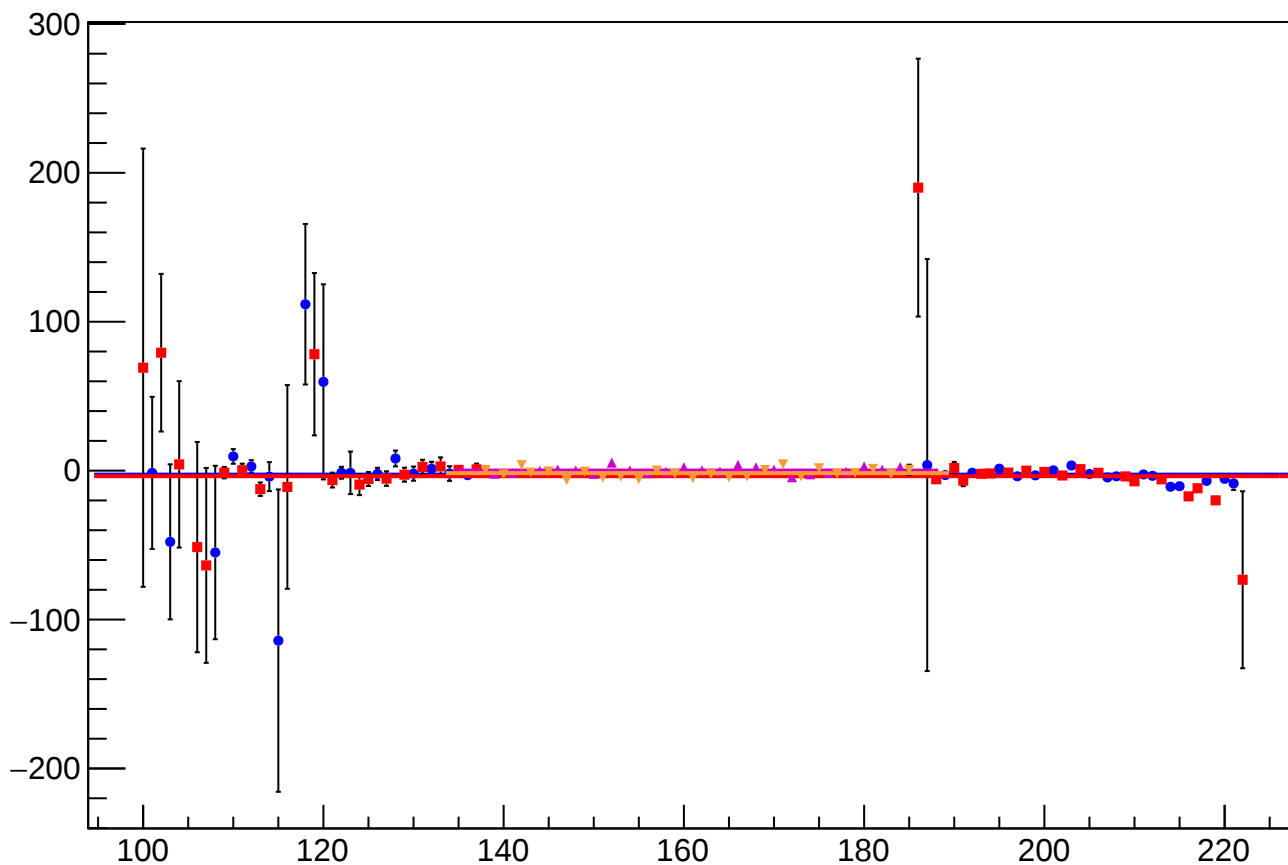
diff_bpm1p02bY_rms vs Slug



Right In: 1646.144 $\pm$ 0.294 χ^2 /NDF: 7170440.3/34
 Left Out: 3372.958 $\pm$ 0.573 χ^2 /NDF:1656864.7/24
 Right Out: 1728.413 $\pm$ 0.315 χ^2 /NDF: 9208334.2/37
 Left In: 3411.924 $\pm$ 0.596 χ^2 /NDF:1434523.7/22

+ sign 2006.544 $\pm$ 0.262 χ^2 /NDF: 16010300.2/59
 All: 2048.719 $\pm$ 0.191 χ^2 /NDF: 32943116.2/1
 - sign 2096.492 $\pm$ 0.279 χ^2 /NDF: 16877483.1/60

diff_bpm1p03aX_mean vs Slug



Right In: -2.681 ± 0.540 χ^2/NDF : 54.0/34

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

Right Out: -3.727 ± 0.567 χ^2/NDF : 93.6/37

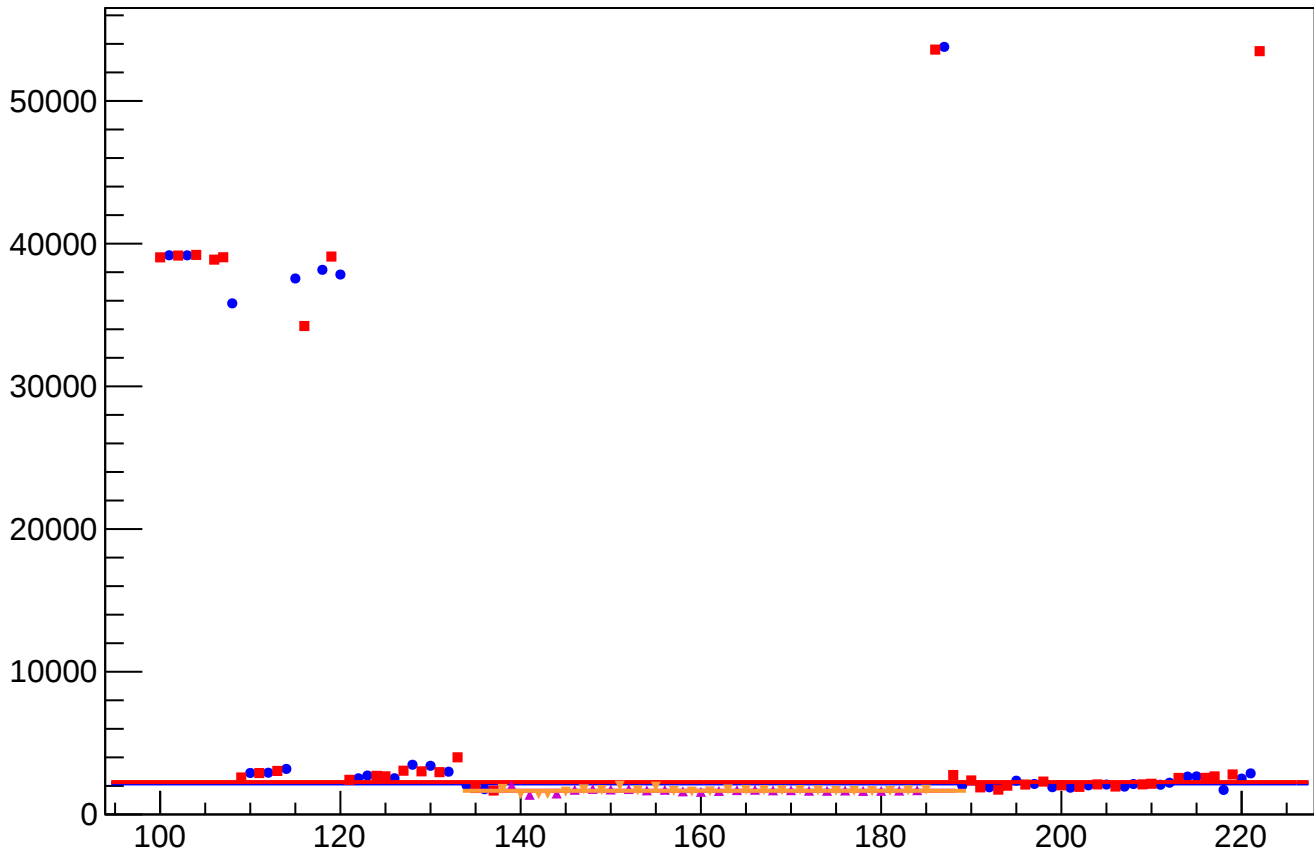
Left In: 0.072 ± 0.401 χ^2/NDF : 28.2/22

+ sign -2.016 ± 0.315 χ^2/NDF : 102.0/59

All: -1.621 ± 0.227 χ^2/NDF : 257.0/120

- sign -1.194 ± 0.328 χ^2/NDF : 151.8/60

diff_bpm1p03aX_rms vs Slug



Right In: 2172.571 ± 0.382 $\chi^2/\text{NDF}: 5740957.0/34$

Left Out: 1657.770 ± 0.274 $\chi^2/\text{NDF}: 223465.3/24$

Right Out: 2269.757 ± 0.401 $\chi^2/\text{NDF}: 7706521.5/37$

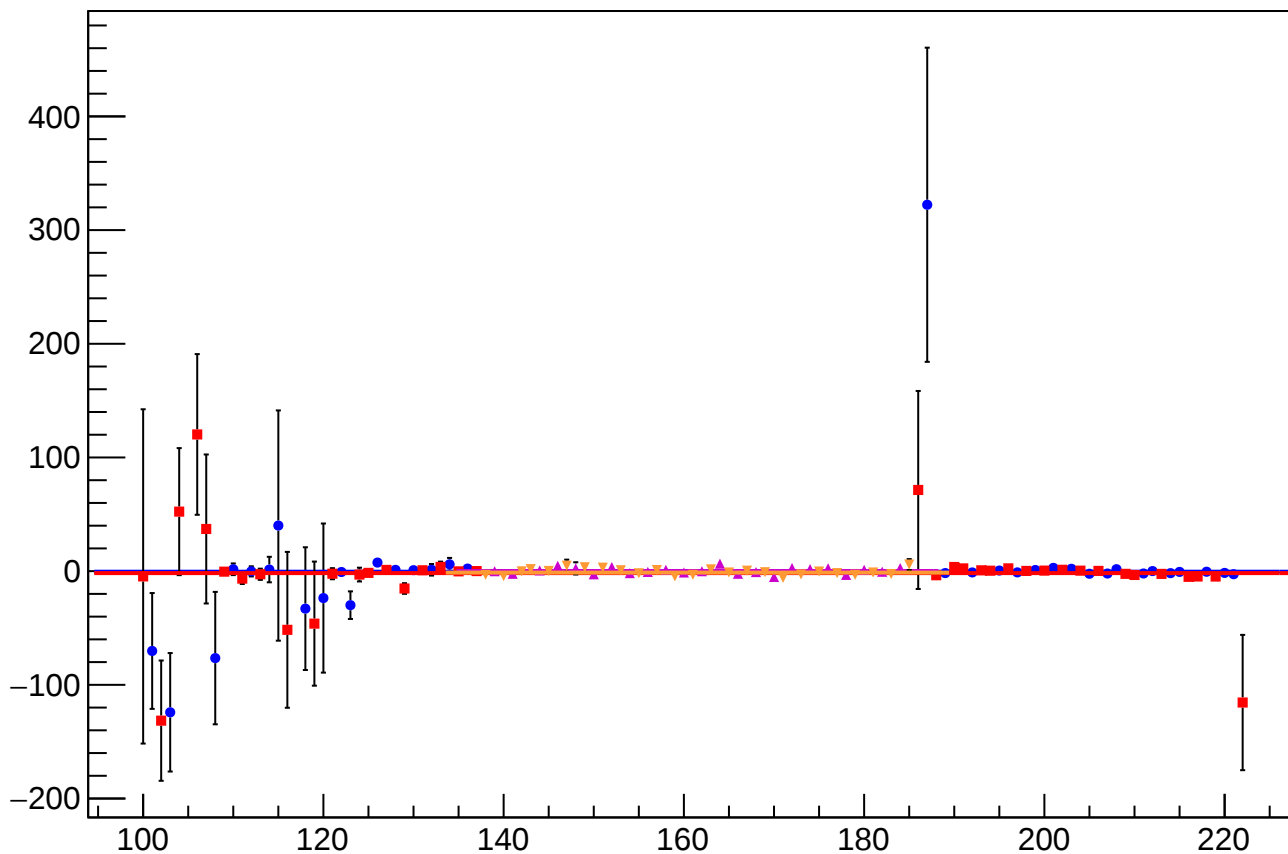
Left In: 1663.620 ± 0.284 $\chi^2/\text{NDF}: 178858.2/22$

+ sign 1833.259 ± 0.223 $\chi^2/\text{NDF}: 7164169.6/59$

All: 1848.782 ± 0.161 $\chi^2/\text{NDF}: 16581644.2/1$

- sign 1865.555 ± 0.232 $\chi^2/\text{NDF}: 9407374.2/60$

diff_bpm1p03aY_mean vs Slug



Right In: -0.491 ± 0.346 $\chi^2/\text{NDF}: 48.0/34$

Left Out: -1.251 ± 0.535 $\chi^2/\text{NDF}: 21.7/24$

Right Out: -1.709 ± 0.361 $\chi^2/\text{NDF}: 74.9/37$

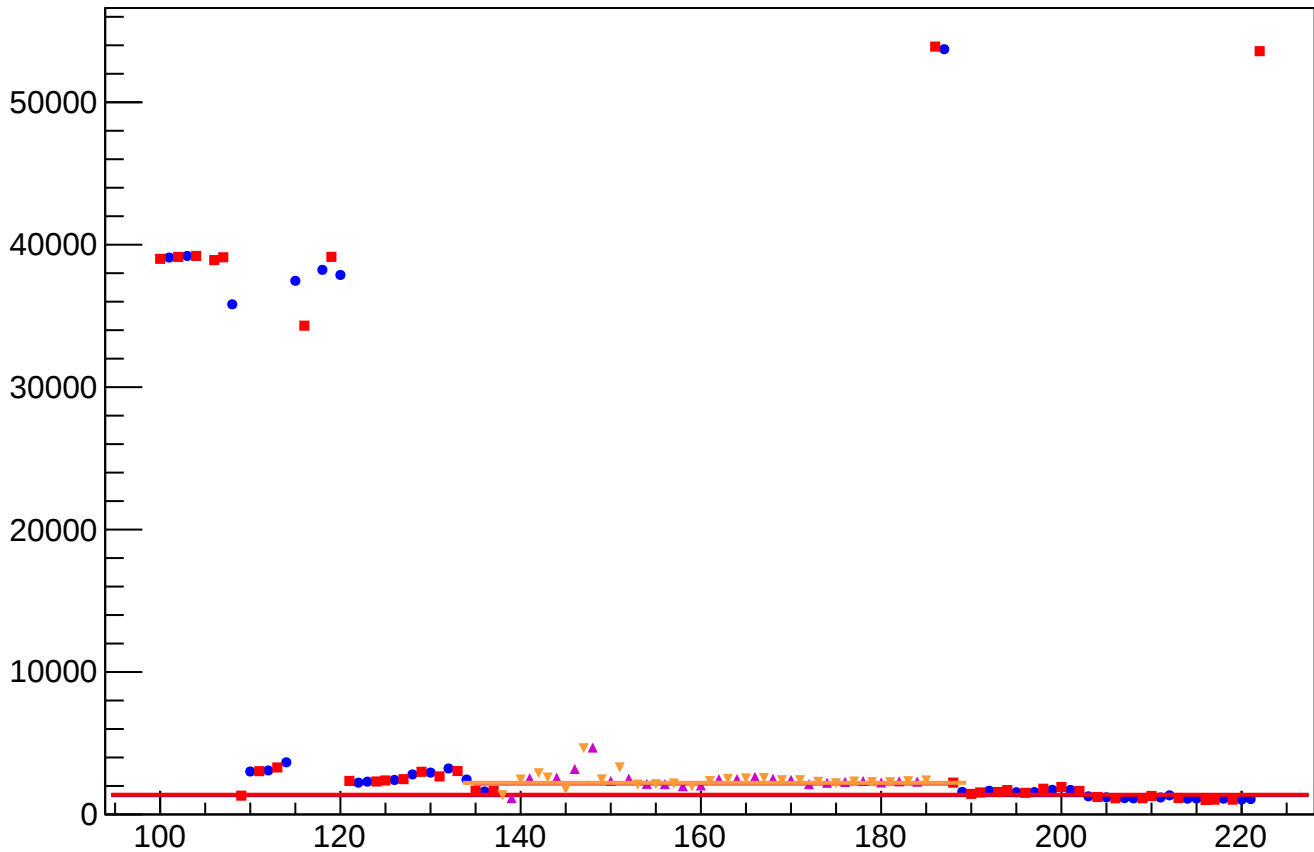
Left In: 0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

+ sign -0.715 ± 0.290 $\chi^2/\text{NDF}: 71.1/59$

All: -0.926 ± 0.209 $\chi^2/\text{NDF}: 174.1/120$

- sign -1.152 ± 0.300 $\chi^2/\text{NDF}: 101.9/60$

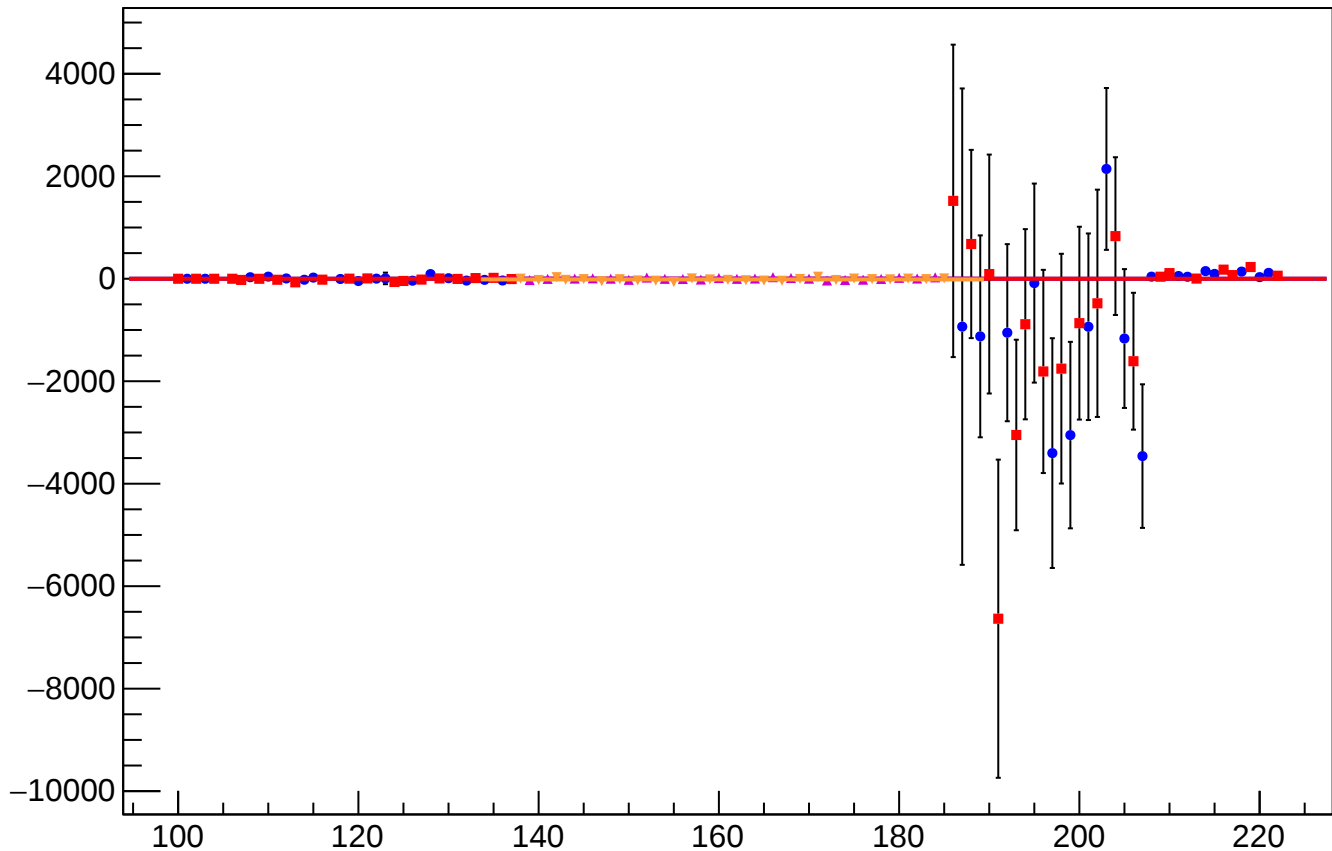
diff_bpm1p03aY_rms vs Slug



Right In: 1355.934 $\pm$ 0.244 χ^2 /NDF: 7623527.9/34
 Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF:1422440.9/24
 Right Out: 1384.433 $\pm$ 0.255 χ^2 /NDF: 9899405.8/37
 Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF:1974869.8/22

+ sign 1610.830 $\pm$ 0.205 χ^2 /NDF: 12744821.2/59
 All: 1618.343 $\pm$ 0.148 χ^2 /NDF: 27532574.3/100
 - sign 1626.395 $\pm$ 0.212 χ^2 /NDF: 14784977.0/60

diff_cav4bX_mean vs Slug



Right In: 0.013+/-0.017 χ^2/NDF : 60.4/34

Left Out: -13.484+/-2.800 χ^2/NDF : 58.7/24

Right Out: 0.003+/-0.016 χ^2/NDF : 67.9/37

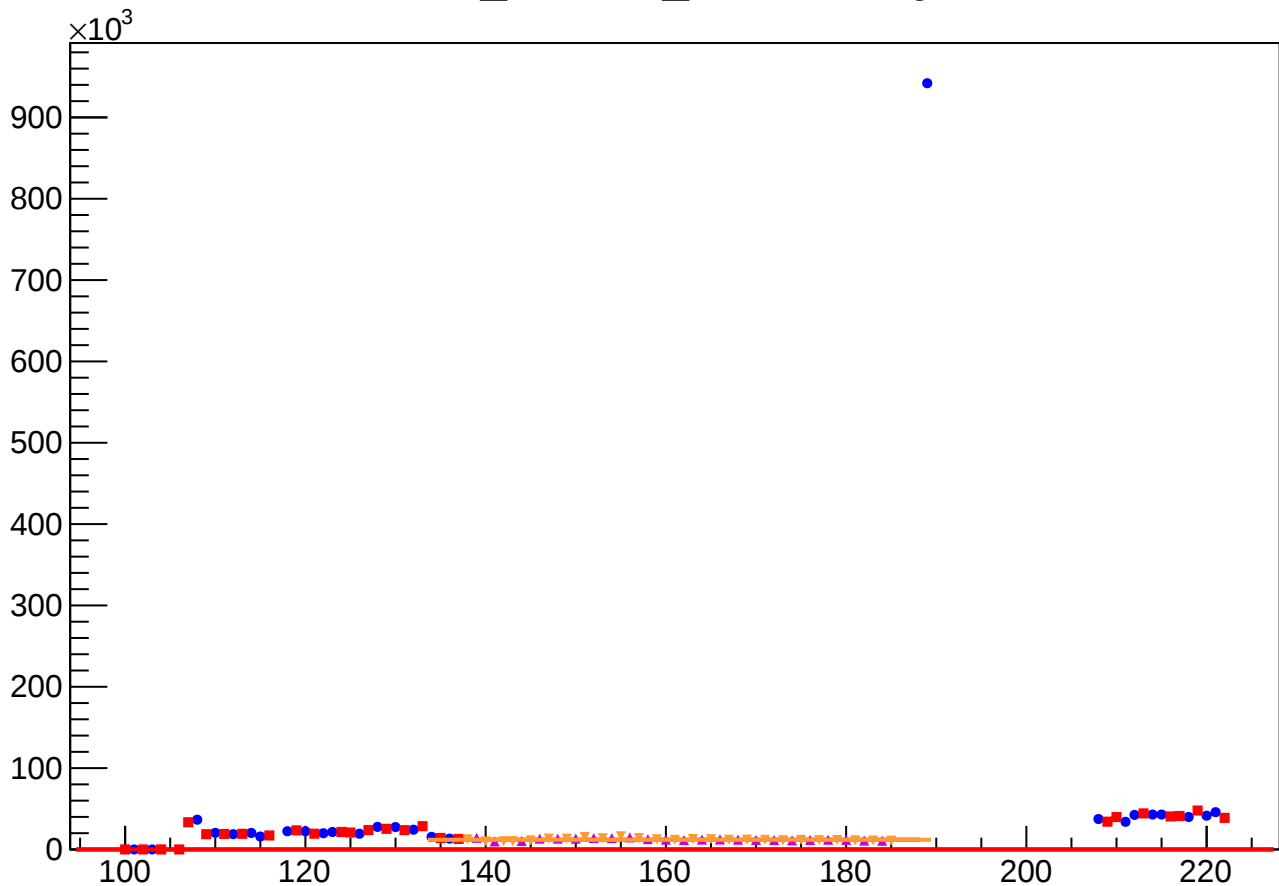
Left In: -0.459+/-2.917 χ^2/NDF : 29.0/22

+ sign 0.013+/-0.017 χ^2/NDF : 142.3/59

All: 0.008+/-0.012 χ^2/NDF : 239.4/120

- sign 0.003+/-0.016 χ^2/NDF : 96.9/60

diff_cav4bX_rms vs Slug



Right In: 18.683+/-0.012 χ^2/NDF : 22197071.1/25

Left Out: 11910.325+/-1.980 χ^2/NDF : 476504.3/24

Right Out: 18.344+/-0.011 χ^2/NDF : 21488123.4/25

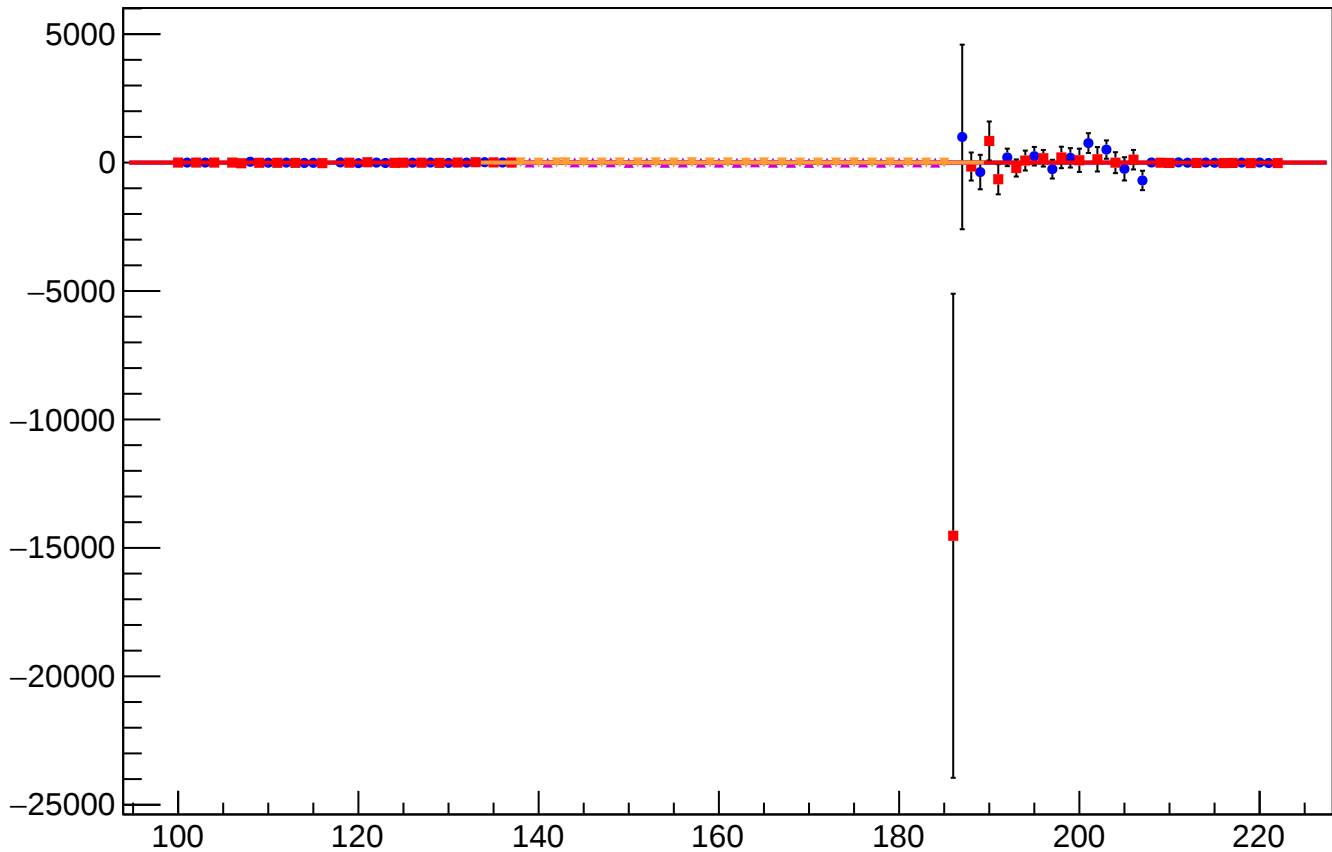
Left In: 12064.761+/-2.062 χ^2/NDF : 368452.5/22

+ sign 19.138+/-0.012 χ^2/NDF : 58736470.5/50

All: 18.908+/-0.008 χ^2/NDF : 114709419.7/99

- sign 18.710+/-0.011 χ^2/NDF : 55972293.2/48

diff_cav4bY_mean vs Slug



Right In: 0.001 ± 0.009 χ^2/NDF : 31.4/34

Left Out: 1.649 ± 1.022 χ^2/NDF : 18.4/24

Right Out: 0.014 ± 0.009 χ^2/NDF : 71.5/37

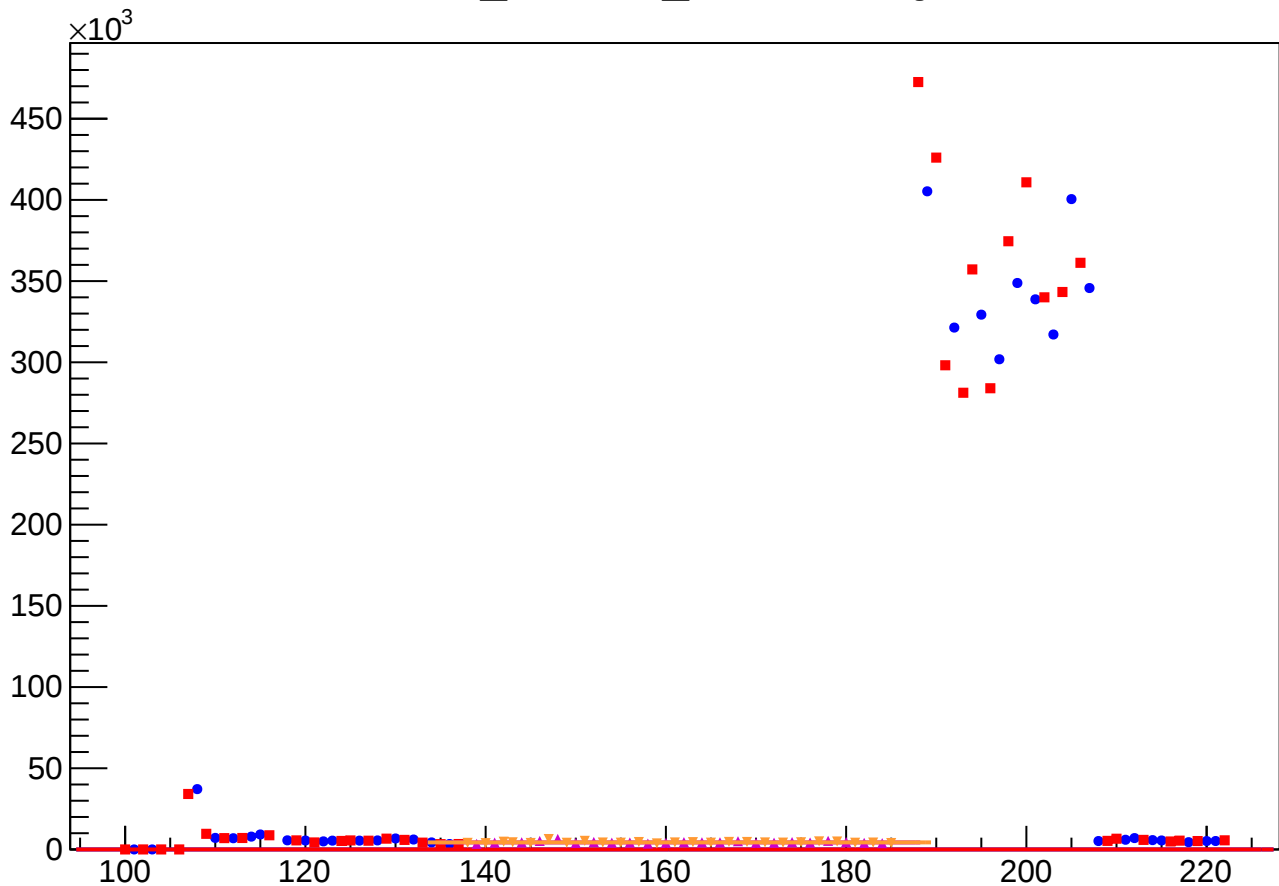
Left In: 0.939 ± 1.049 χ^2/NDF : 35.6/22

+ sign 0.001 ± 0.009 χ^2/NDF : 52.3/59

All: 0.008 ± 0.006 χ^2/NDF : 161.3/120

- sign 0.014 ± 0.009 χ^2/NDF : 107.9/60

diff_cav4bY_rms vs Slug



Right In: 10.025+/-0.007 χ^2/NDF : 35598284.9/33

Left Out: 4349.005+/-0.723 χ^2/NDF : 383895.7/24

Right Out: 9.926+/-0.006 χ^2/NDF : 36244301.9/36

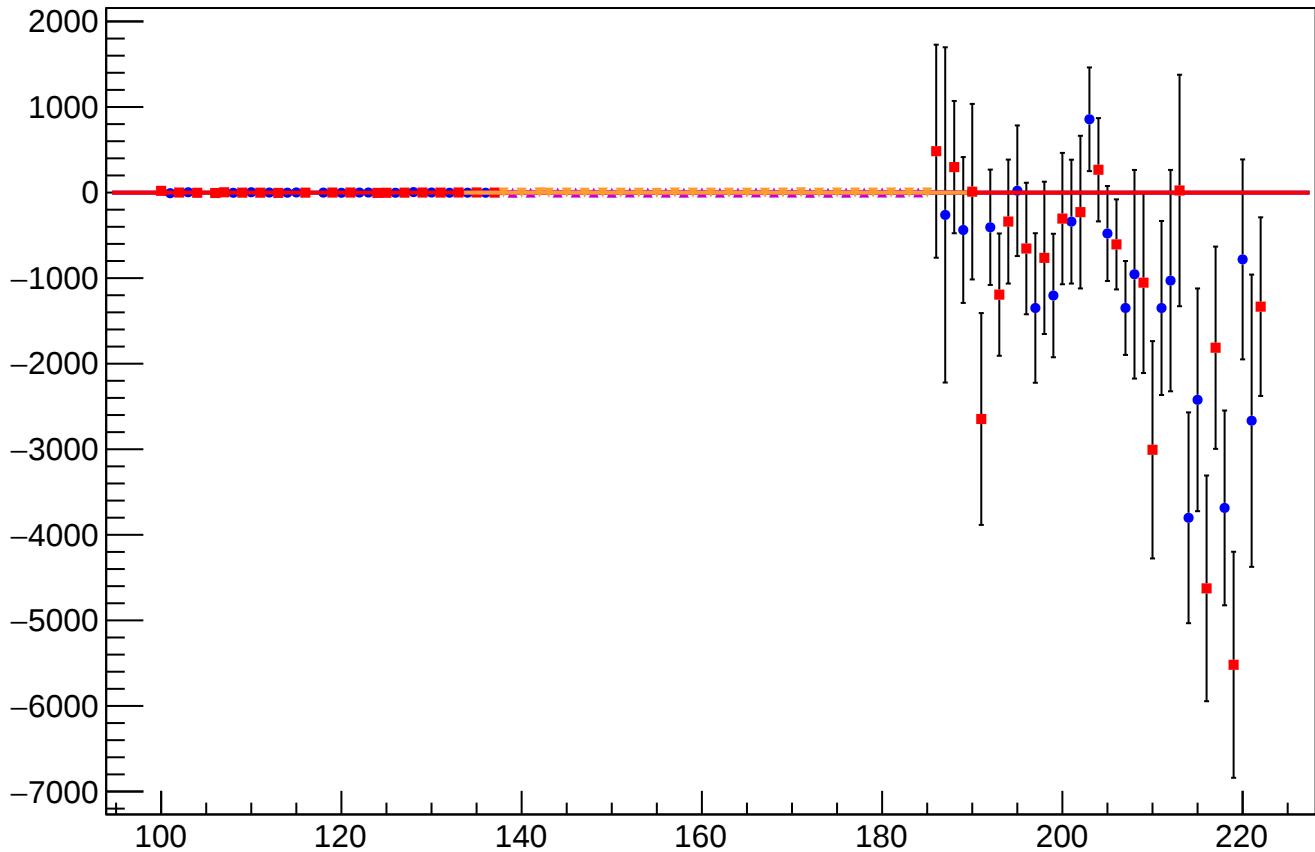
Left In: 4321.572+/-0.741 χ^2/NDF : 514603.2/22

+ sign 10.377+/-0.007 χ^2/NDF : 72024274.1/58

All: 10.293+/-0.004 χ^2/NDF : 142601140.9/1

- sign 10.219+/-0.006 χ^2/NDF : 70576554.8/59

diff_cav4cX_mean vs Slug



Right In: -0.718 ± 0.483 χ^2/NDF : 66.8/34

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

Right Out: -0.643 ± 0.501 χ^2/NDF : 64.4/37

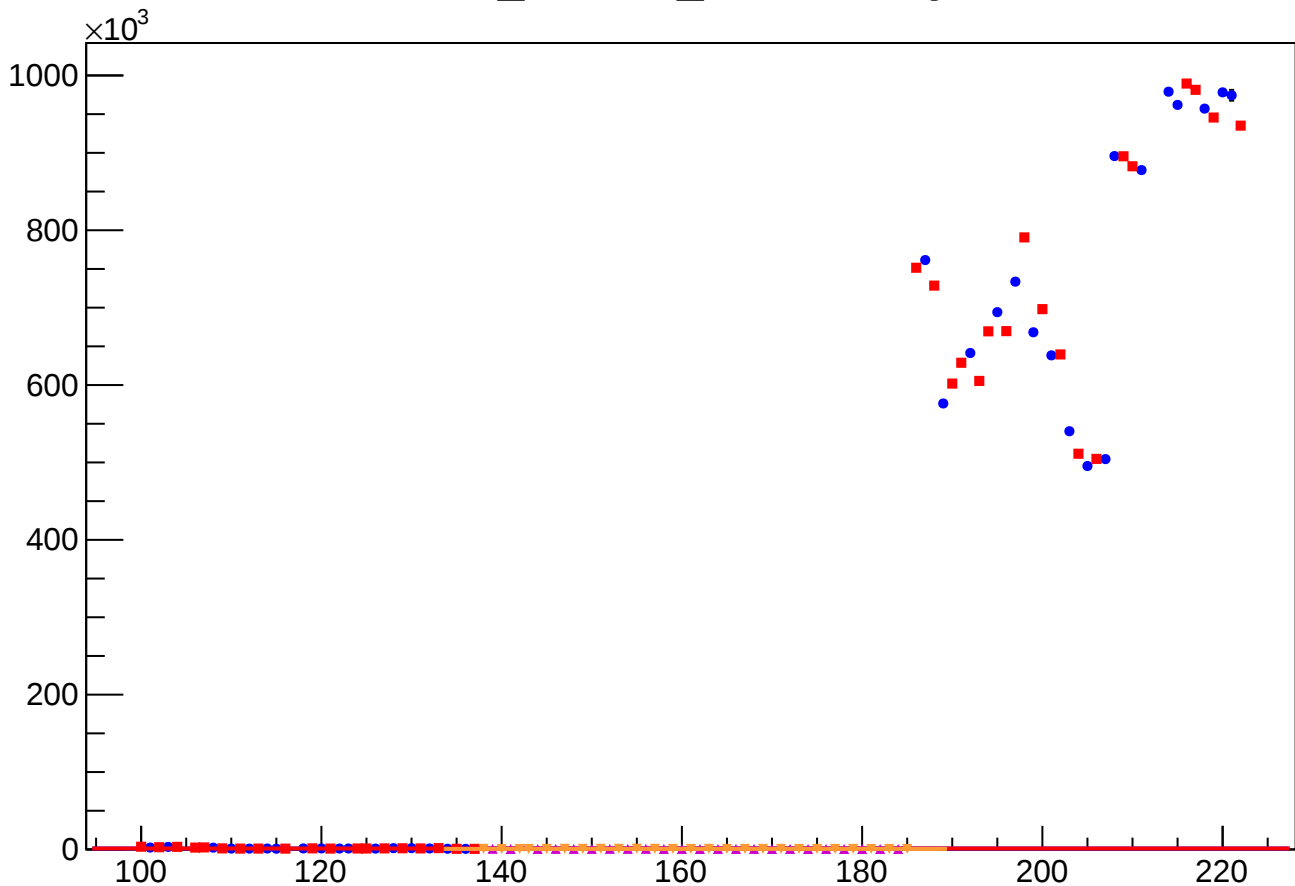
Left In: -0.018 ± 0.171 χ^2/NDF : 29.4/22

+ sign -0.769 ± 0.156 χ^2/NDF : 125.4/59

All: -0.439 ± 0.112 χ^2/NDF : 230.0/120

- sign -0.083 ± 0.162 χ^2/NDF : 95.3/60

diff_cav4cX_rms vs Slug



Right In: 1170.379+/-0.342 χ^2/NDF : 19736428.1/33

Left Out: 700.984+/-0.116 χ^2/NDF :392855.4/24

Right Out: 1251.513+/-0.355 χ^2/NDF : 20902746.8/36

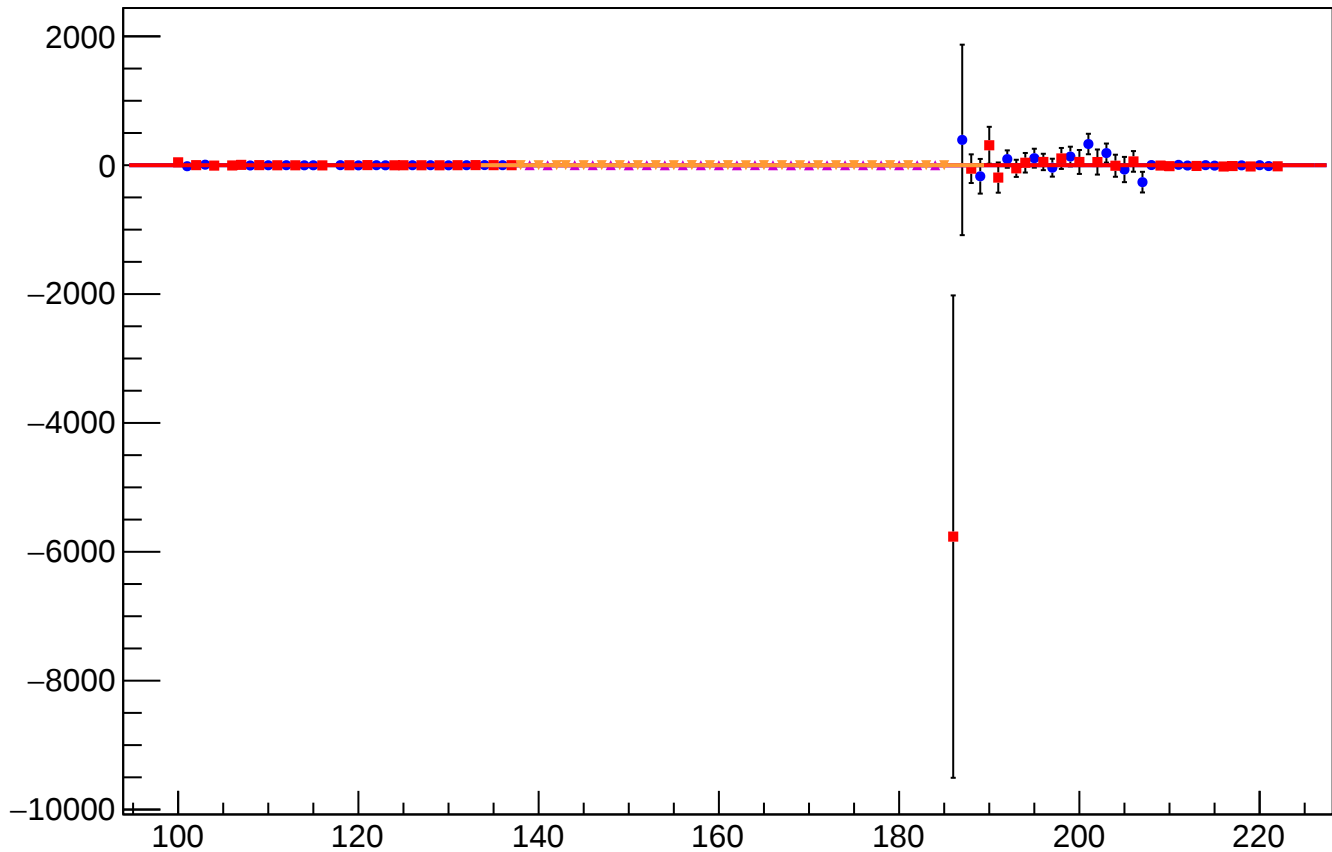
Left In: 706.971+/-0.121 χ^2/NDF :332011.4/22

+ sign 749.790+/-0.110 χ^2/NDF : 21820944.2/58

All: 756.421+/-0.079 χ^2/NDF : 45176410.2/11

- sign 763.561+/-0.114 χ^2/NDF : 23347941.4/59

diff_cav4cY_mean vs Slug



Right In: -0.096 ± 0.266 χ^2/NDF : 38.5/34

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

Right Out: 0.011 ± 0.262 χ^2/NDF : 90.0/37

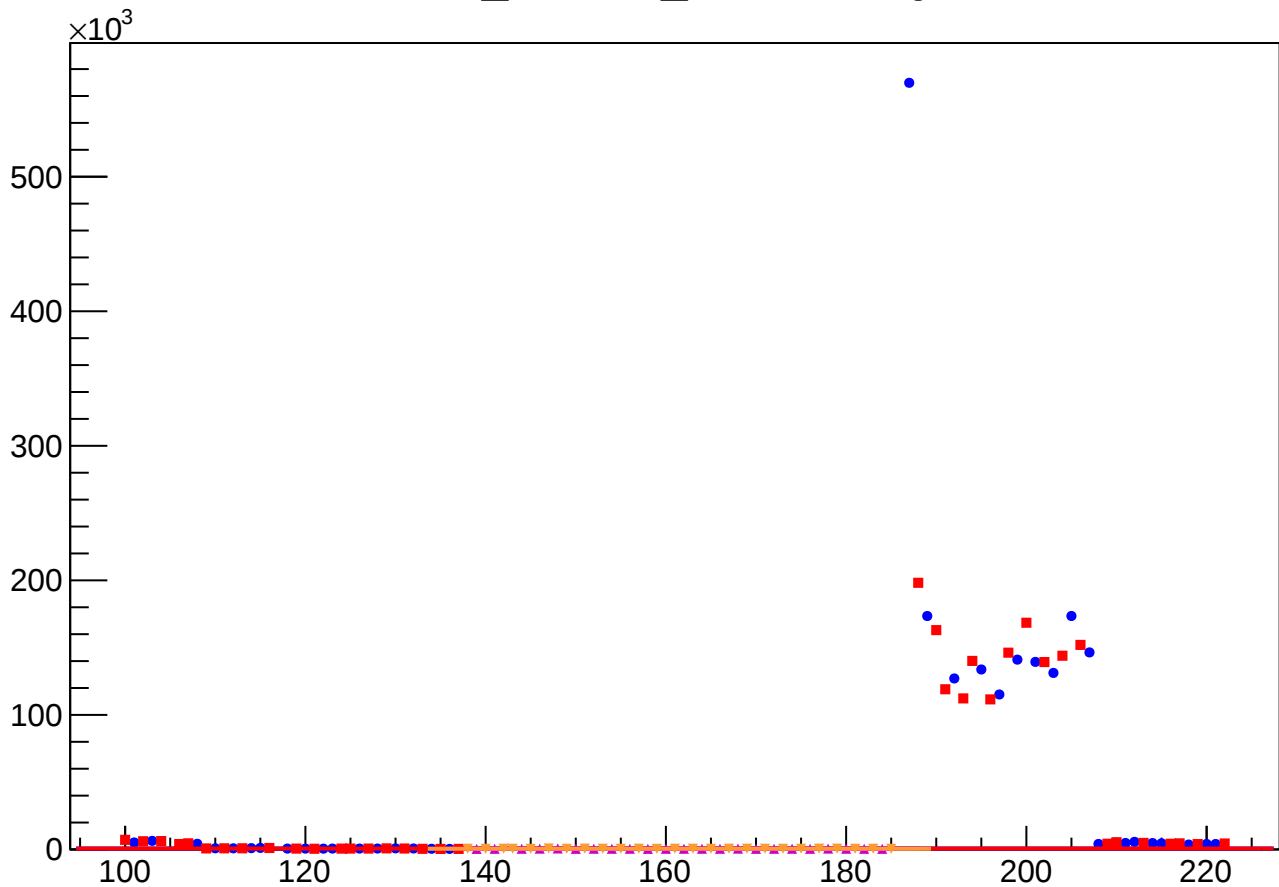
Left In: 0.126 ± 0.126 χ^2/NDF : 35.0/22

+ sign 0.175 ± 0.111 χ^2/NDF : 57.8/59

All: 0.140 ± 0.080 χ^2/NDF : 183.1/120

- sign 0.104 ± 0.114 χ^2/NDF : 125.1/60

diff_cav4cY_rms vs Slug



Right In: 688.854 ± 0.188 χ^2/NDF : 24977996.9/34

Left Out: 522.220 ± 0.087 χ^2/NDF : 330405.3/24

Right Out: 671.300 ± 0.185 χ^2/NDF : 25985931.0/36

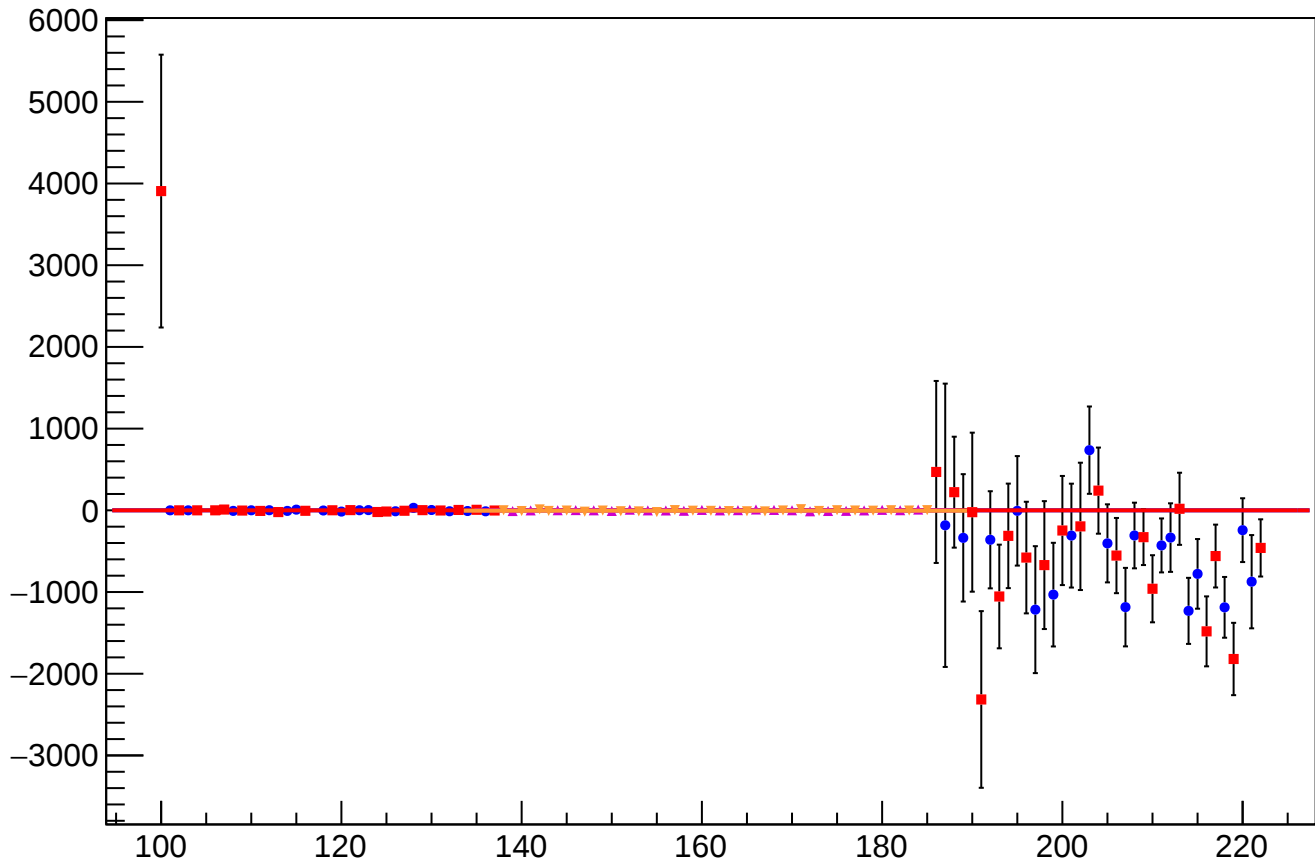
Left In: 520.700 ± 0.089 χ^2/NDF : 427720.5/22

+ sign 551.376 ± 0.079 χ^2/NDF : 25954819.8/59

All: 550.229 ± 0.056 χ^2/NDF : 52905239.6/11

- sign 549.034 ± 0.080 χ^2/NDF : 26949986.6/59

diff_cav4dX_mean vs Slug



Right In: -0.022 ± 0.021 χ^2/NDF : 59.0/34

Left Out: -4.480 ± 0.957 χ^2/NDF : 58.4/24

Right Out: -0.027 ± 0.020 χ^2/NDF : 67.7/37

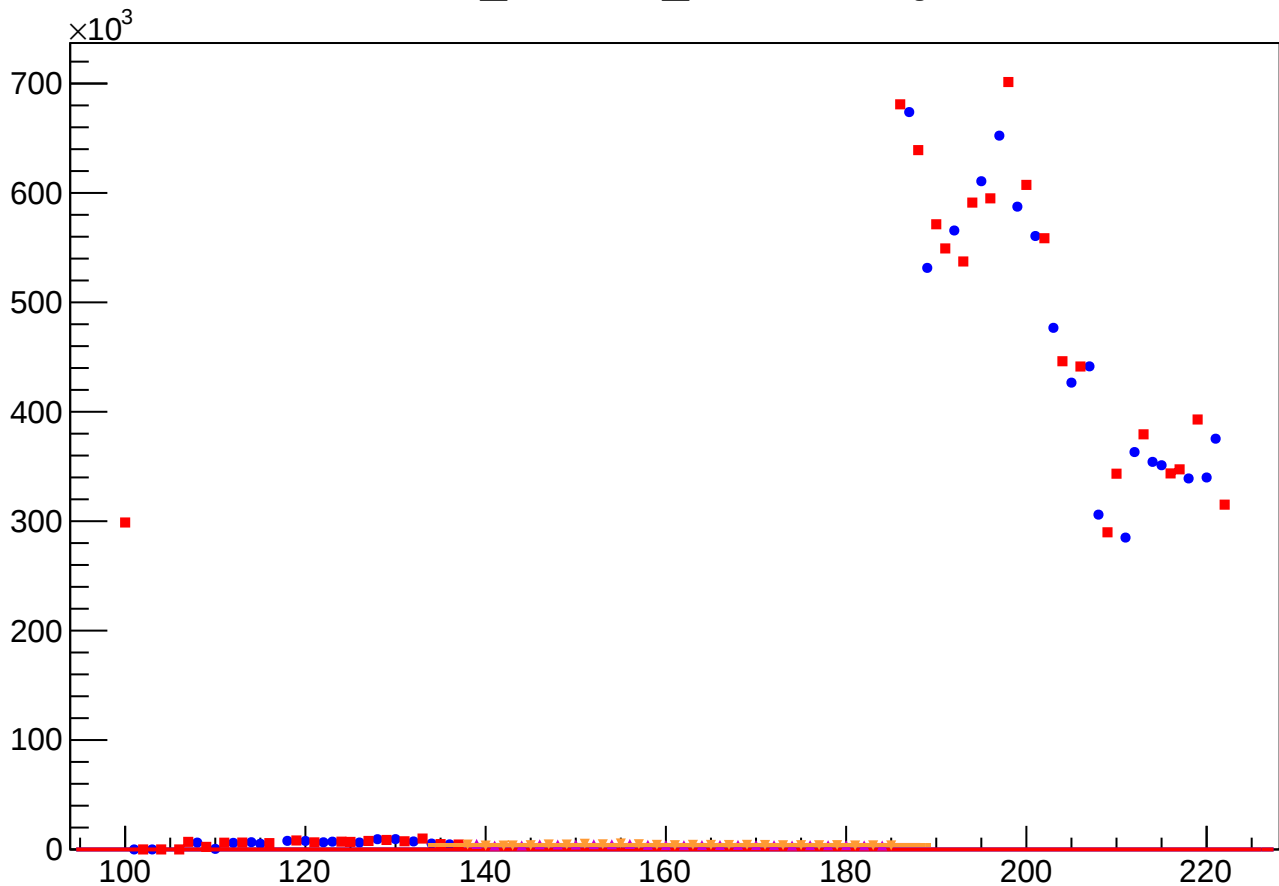
Left In: -0.183 ± 0.994 χ^2/NDF : 29.5/22

+ sign -0.024 ± 0.021 χ^2/NDF : 139.1/59

All: -0.025 ± 0.014 χ^2/NDF : 236.4/120

- sign -0.027 ± 0.020 χ^2/NDF : 97.2/60

diff_cav4dX_rms vs Slug



Right In: 17.352+/-0.015 χ^2/NDF : 35801206.7/34

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

Right Out: 17.279+/-0.014 χ^2/NDF : 37123907.4/37

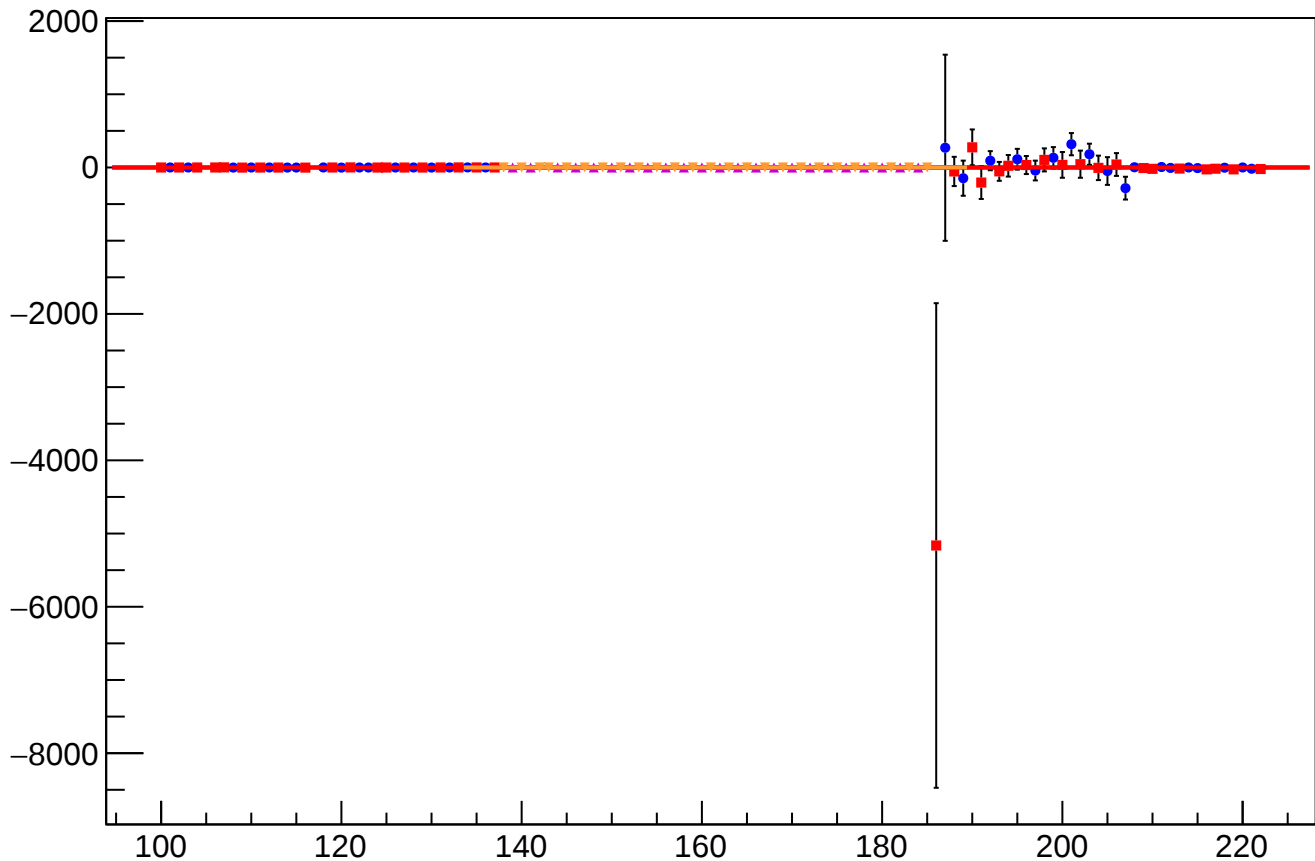
Left In: 4113.993+/-0.703 χ^2/NDF : 349160.6/22

+ sign 19.267+/-0.015 χ^2/NDF : 72151146.2/59

All: 19.074+/-0.010 χ^2/NDF : 143580333.8/12

- sign 18.900+/-0.014 χ^2/NDF : 71428860.8/60

diff_cav4dY_mean vs Slug



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 33.9/34

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

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 91.5/37

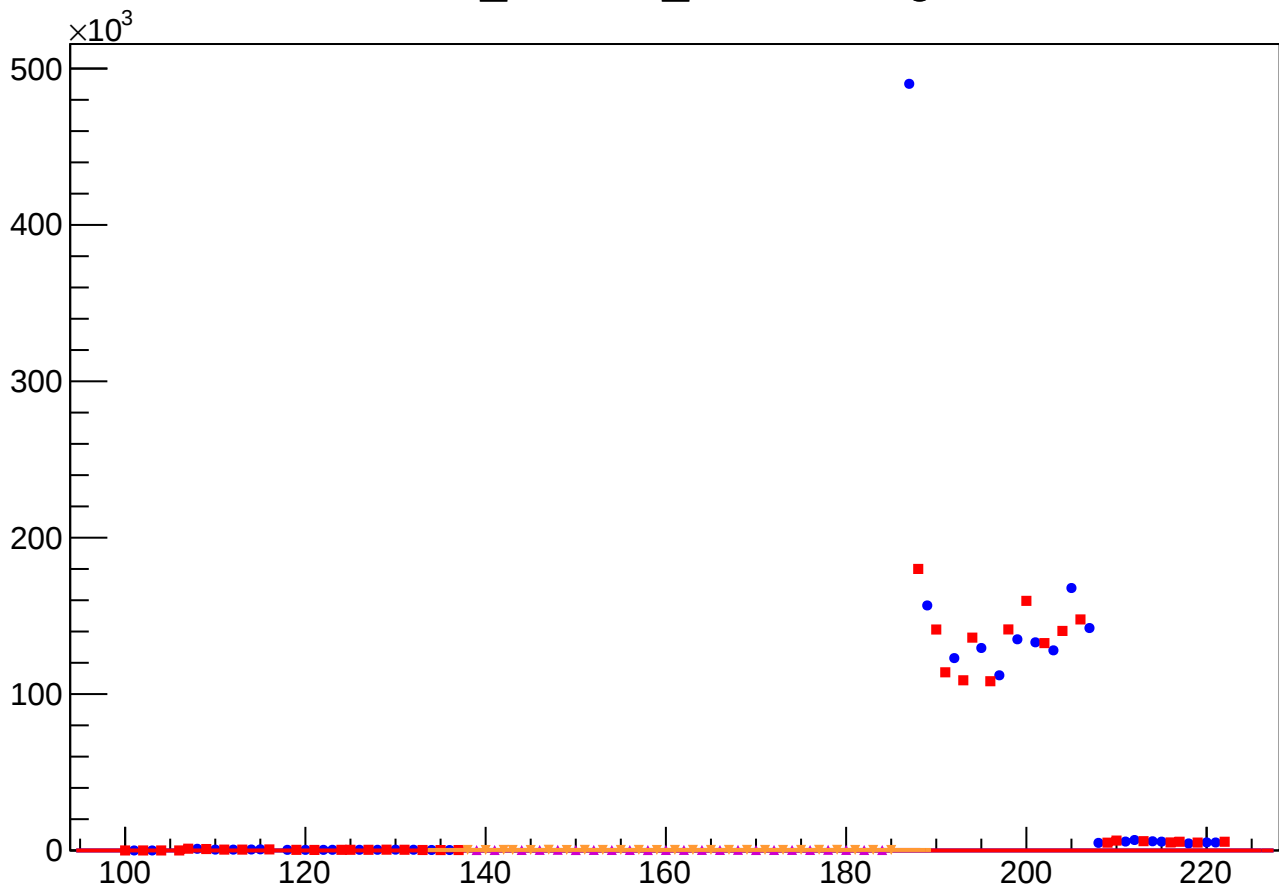
Left In: 0.080 $\pm$ 0.079 χ^2 /NDF:34.6/22

+ sign 0.000 $\pm$ 0.002 χ^2 /NDF: 54.9/59

All: 0.001 $\pm$ 0.001 χ^2 /NDF: 182.1/120

- sign 0.001 $\pm$ 0.002 χ^2 /NDF: 127.2/60

diff_cav4dY_rms vs Slug



Right In: 1.703 $\pm$ 0.001 χ^2 /NDF: 36000877.9/34

Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24

Right Out: 1.732 $\pm$ 0.001 χ^2 /NDF: 36052798.9/36

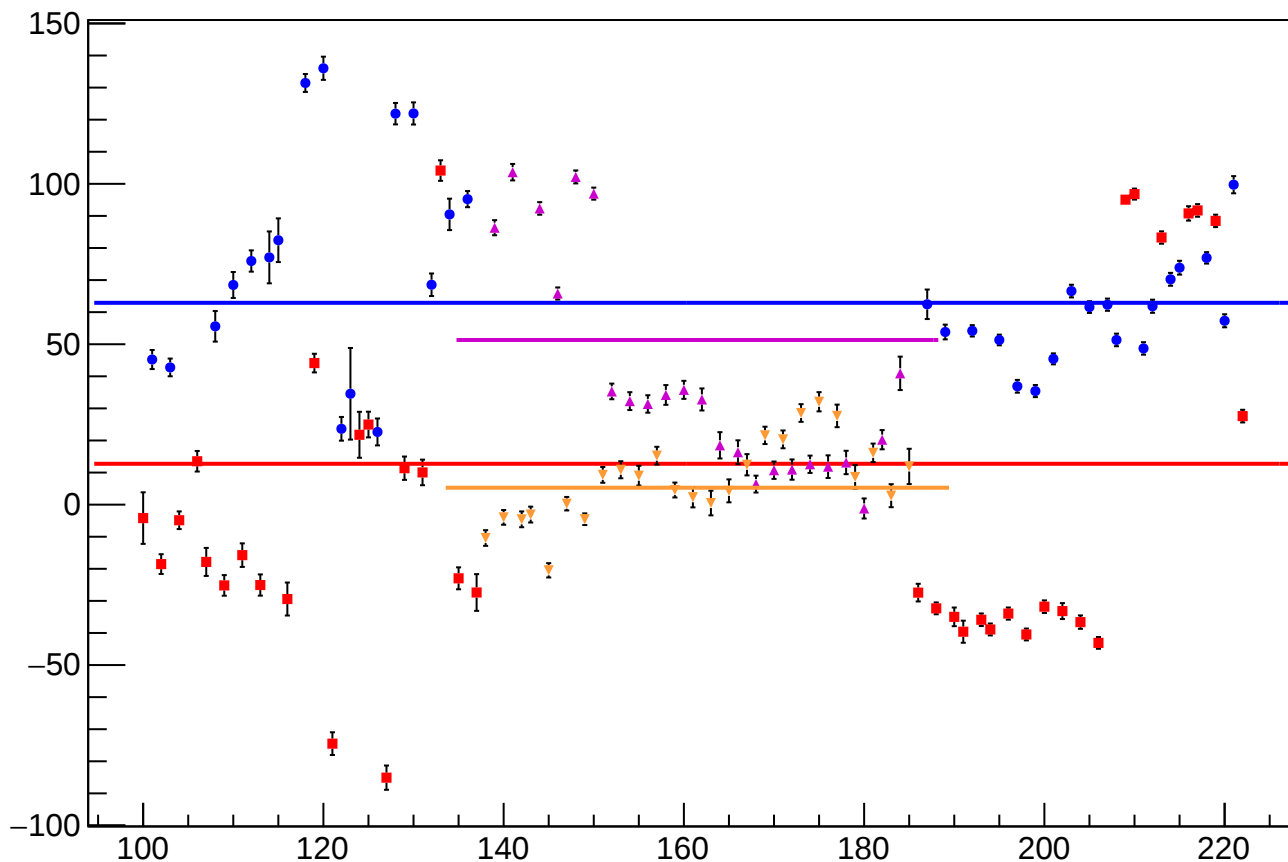
Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

+ sign 1.931 $\pm$ 0.001 χ^2 /NDF: 72211811.7/59

All: 1.929 $\pm$ 0.001 χ^2 /NDF: 142401758.3/119

- sign 1.928 $\pm$ 0.001 χ^2 /NDF: 70189944.4/59

diff_bpm0i01X_mean vs Slug



Right In: 62.913 $\pm$ 0.415 χ^2 /NDF: 3108.1/34

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

Right Out: 12.737 $\pm$ 0.400 χ^2 /NDF: 21474.2/37

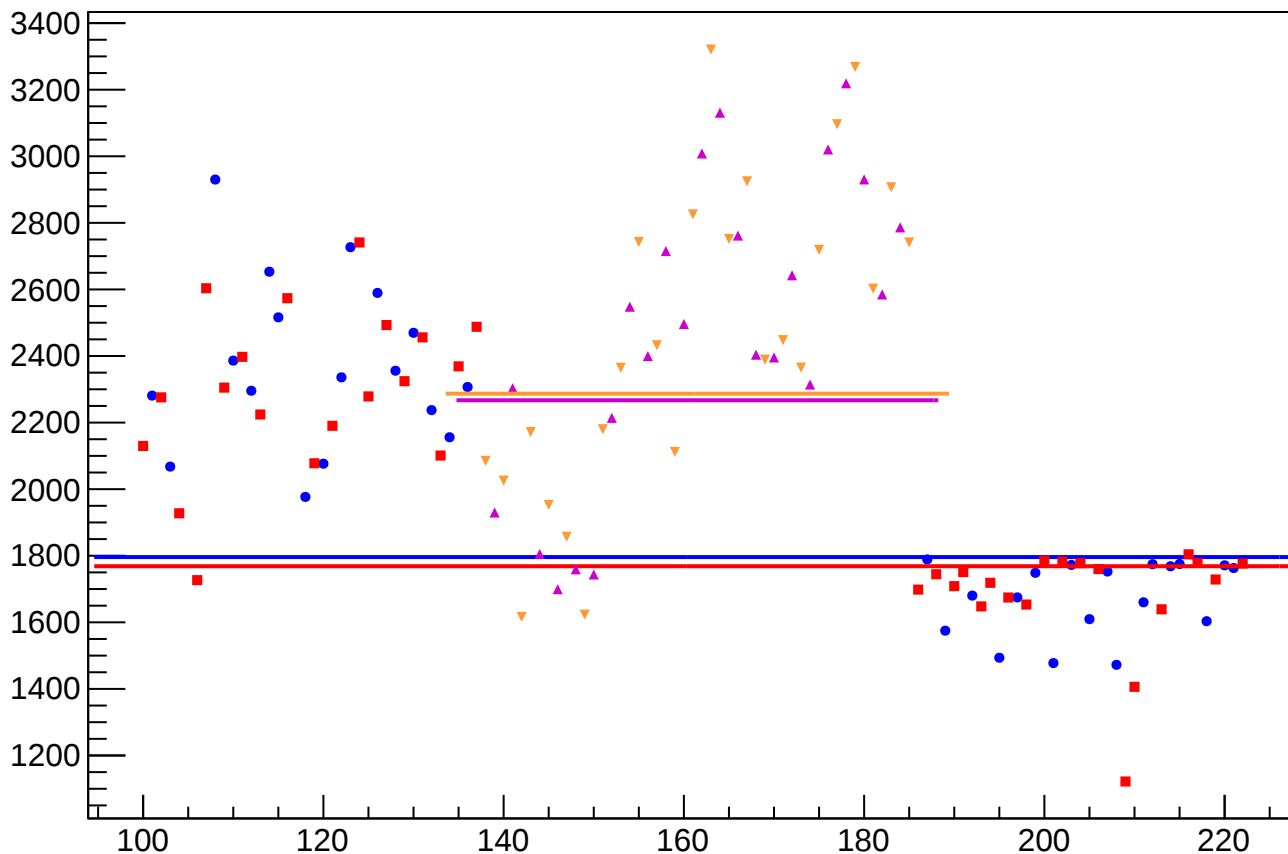
Left In: 51.328 $\pm$ 0.558 χ^2 /NDF: 4257.8/22

+ sign 41.736 $\pm$ 0.330 χ^2 /NDF: 10760.8/59

All: 33.652 $\pm$ 0.231 χ^2 /NDF: 40835.4/120

- sign 25.807 $\pm$ 0.325 χ^2 /NDF: 28891.0/60

diff_bpm0i01X_rms vs Slug



Right In: 1796.032 $\pm$ 0.293 χ^2 /NDF: 1000473.0/34

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

Right Out: 1768.537 $\pm$ 0.283 χ^2 /NDF: 1358649.2/37

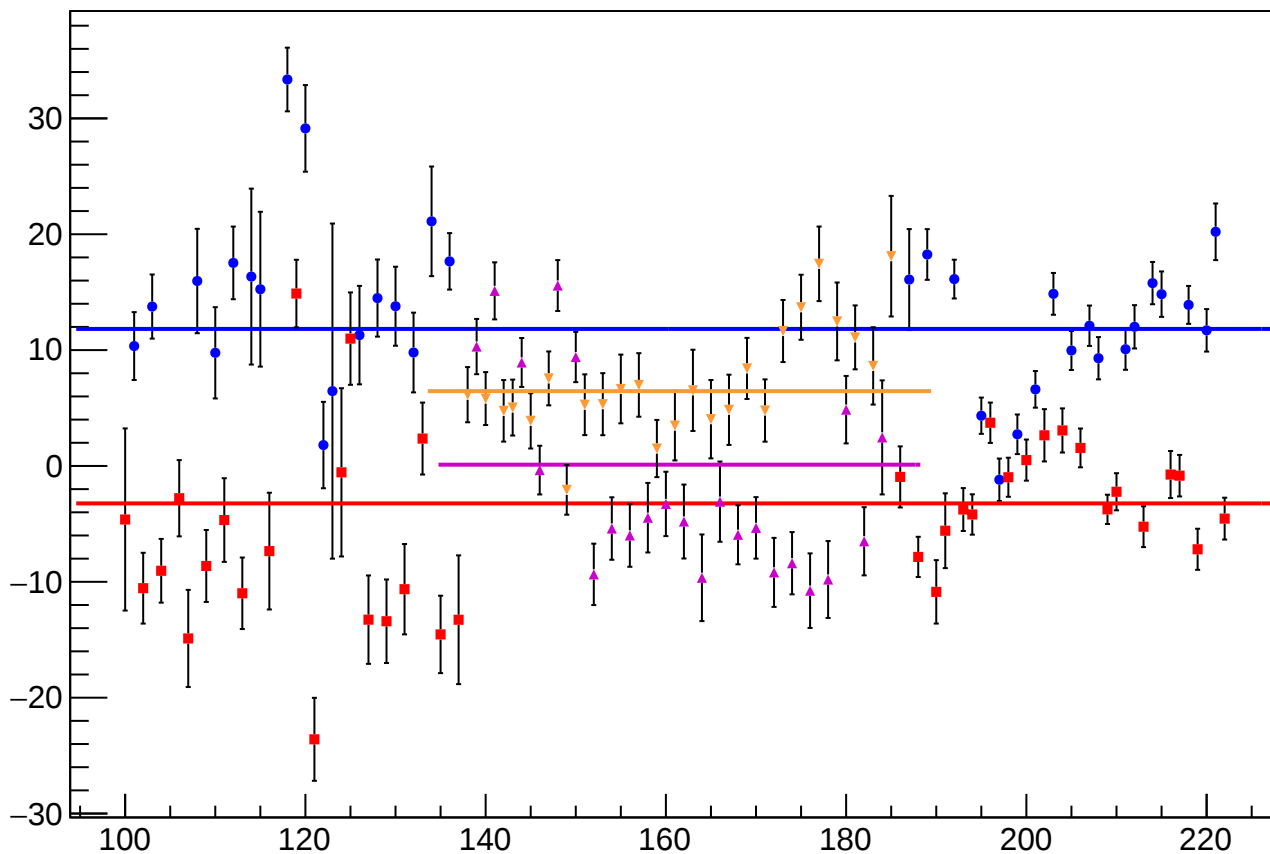
Left In: 2267.097 $\pm$ 0.395 χ^2 /NDF:1313364.4/22

+ sign 1976.379 $\pm$ 0.233 χ^2 /NDF: 3390261.8/59

All: 1956.589 $\pm$ 0.164 χ^2 /NDF: 7131004.3/12

- sign 1937.385 $\pm$ 0.230 χ^2 /NDF: 3726557.5/60

diff_bpm0i01Y_mean vs Slug



Right In: 11.828 ± 0.387 χ^2/NDF : 263.2/34

Left Out: 6.458 ± 0.548 χ^2/NDF : 58.7/24

Right Out: -3.232 ± 0.375 χ^2/NDF : 223.7/37

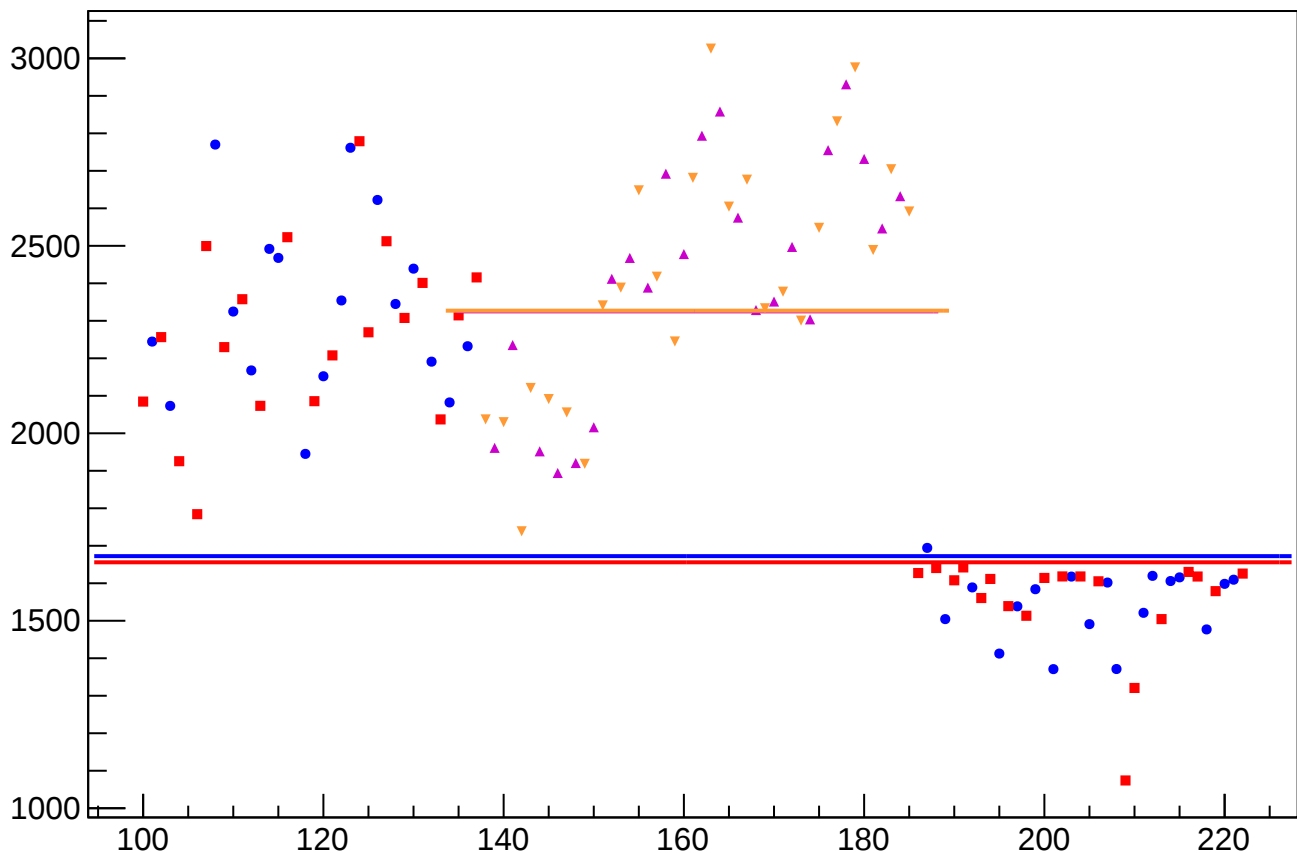
Left In: 0.110 ± 0.565 χ^2/NDF : 234.6/22

+ sign 10.039 ± 0.316 χ^2/NDF : 386.0/59

All: 3.841 ± 0.222 χ^2/NDF : 1628.2/120

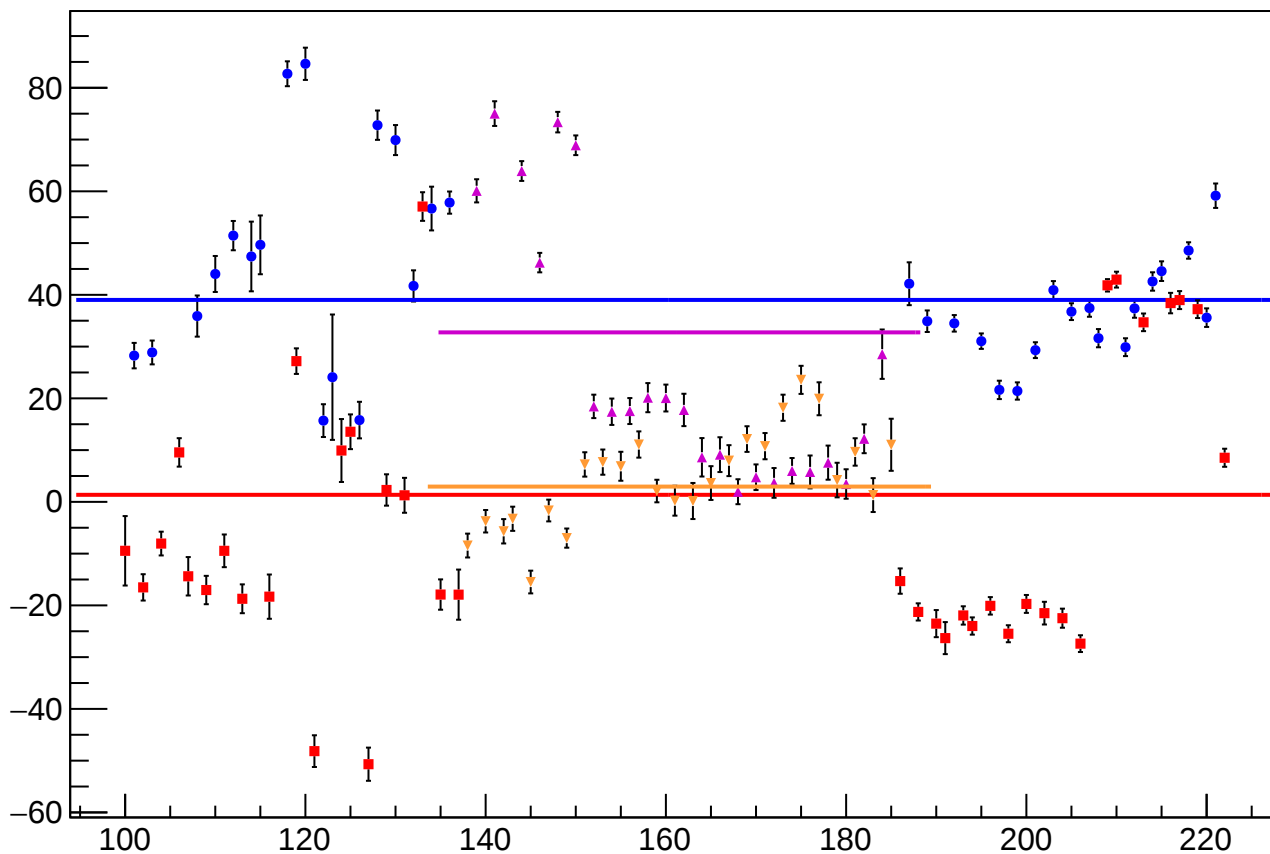
- sign -2.211 ± 0.312 χ^2/NDF : 482.5/60

diff_bpm0i01Y_rms vs Slug



Right In: 1672.356+/-0.274	χ^2/NDF : 1270095.8/34	+ sign 1890.562+/-0.224	χ^2/NDF : 3823000.8/59
Left Out: 2327.044+/-0.387	χ^2/NDF : 646706.7/24	All: 1875.306+/-0.157	χ^2/NDF : 7954325.6/12
Right Out: 1655.929+/-0.265	χ^2/NDF : 1563717.2/37	- sign 1860.407+/-0.221	χ^2/NDF : 4122117.5/60
Left In: 2325.175+/-0.400	χ^2/NDF : 610729.2/22		

diff_bpm0i01aX_mean vs Slug



Right In: 39.016 ± 0.365 χ^2/NDF : 1523.9/34

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

Right Out: 1.361 ± 0.352 χ^2/NDF : 6847.0/37

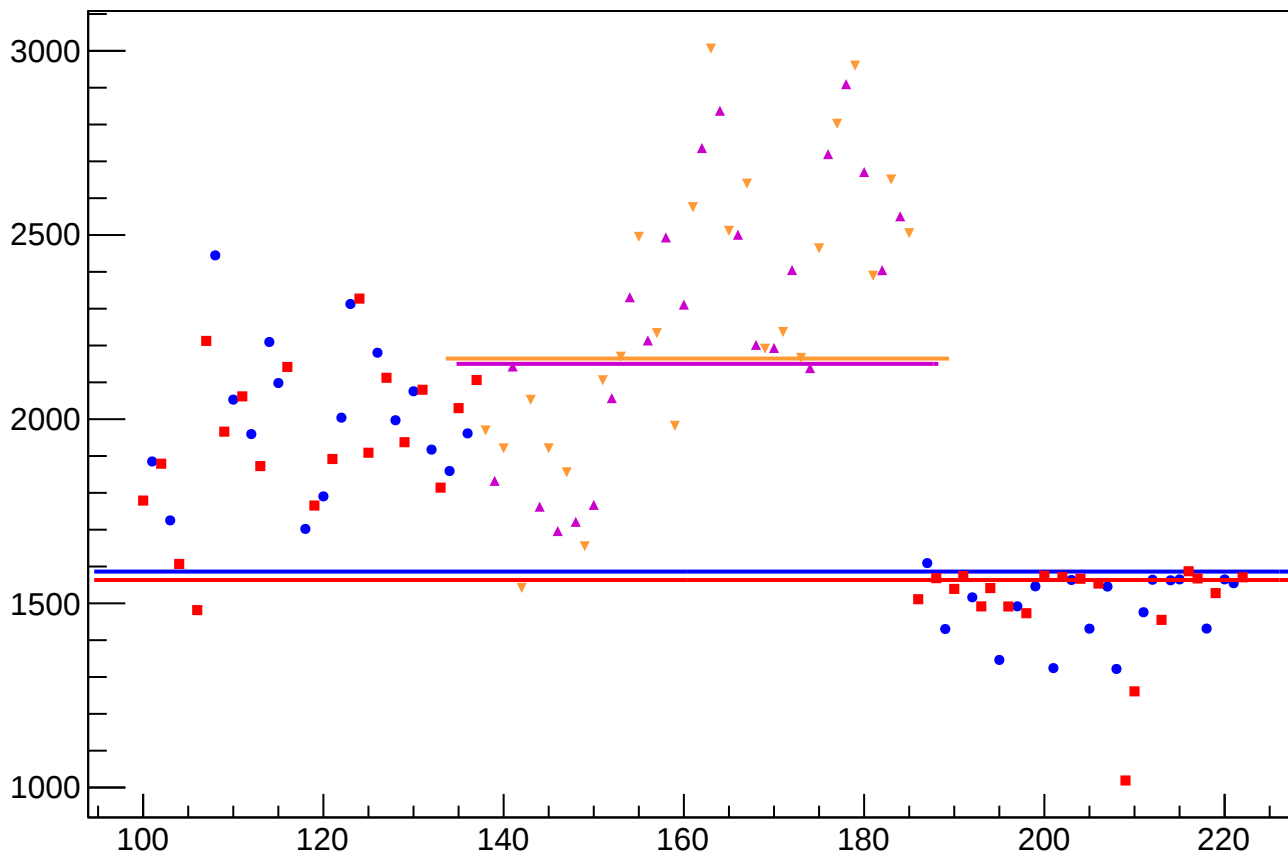
Left In: 32.745 ± 0.526 χ^2/NDF : 2632.5/22

+ sign 26.867 ± 0.297 χ^2/NDF : 5152.7/59

All: 18.839 ± 0.208 χ^2/NDF : 18528.3/120

- sign 11.060 ± 0.292 χ^2/NDF : 11938.1/60

diff_bpm0i01aX_rms vs Slug



Right In: 1586.260 $\pm$ 0.258 χ^2 /NDF: 764850.6/34

Left Out: 2164.573 $\pm$ 0.362 χ^2 /NDF:965603.5/24

Right Out: 1563.384 $\pm$ 0.249 χ^2 /NDF: 1082030.5/37

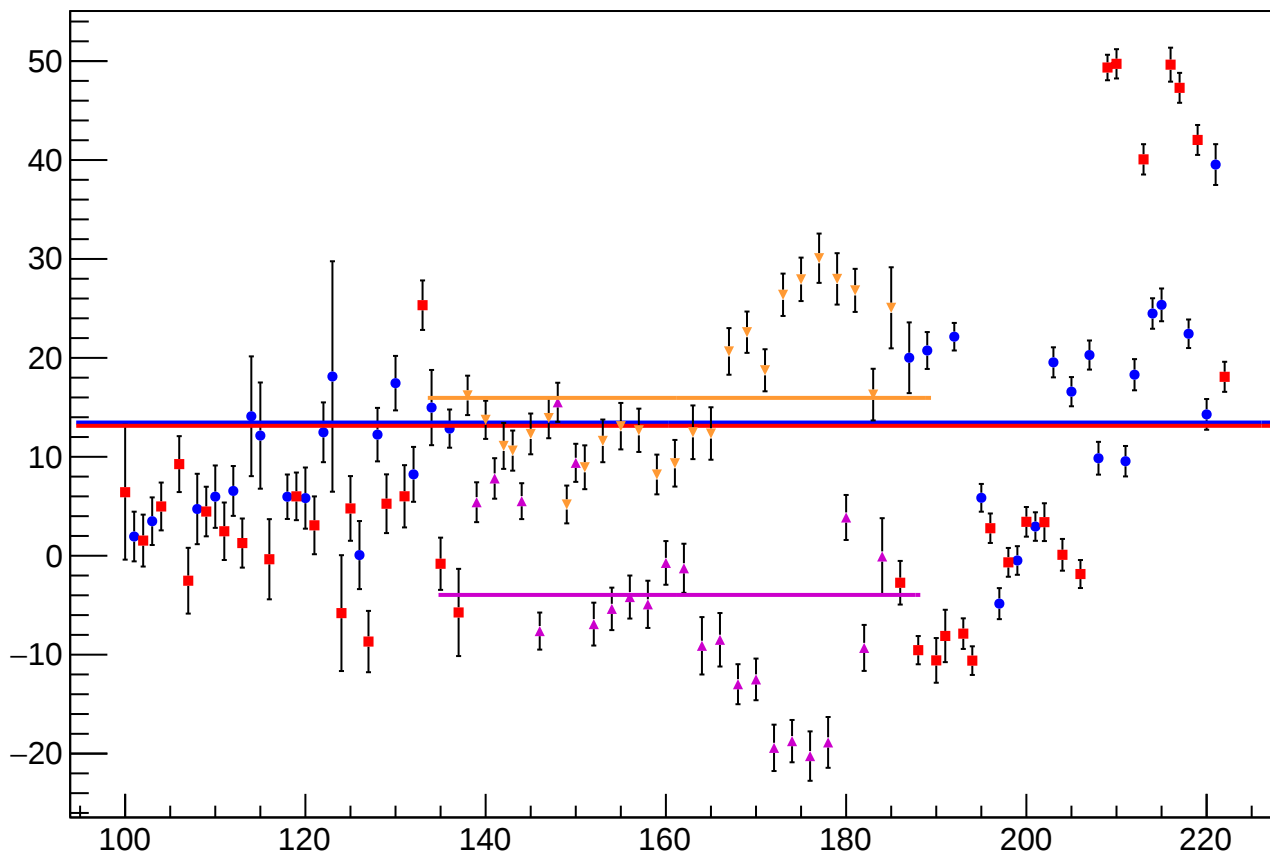
Left In: 2150.190 $\pm$ 0.372 χ^2 /NDF:911849.7/22

+ sign 1781.078 $\pm$ 0.210 χ^2 /NDF: 3422997.0/59

All: 1762.615 $\pm$ 0.147 χ^2 /NDF: 7151205.2/12

- sign 1744.725 $\pm$ 0.207 χ^2 /NDF: 3713002.1/60

diff_bpm0i01aY_mean vs Slug



Right In: 13.466 $\pm$ 0.330 χ^2 /NDF: 829.5/34

Left Out: 15.956 $\pm$ 0.447 χ^2 /NDF: 245.2/24

Right Out: 13.134 $\pm$ 0.321 χ^2 /NDF: 4647.1/37

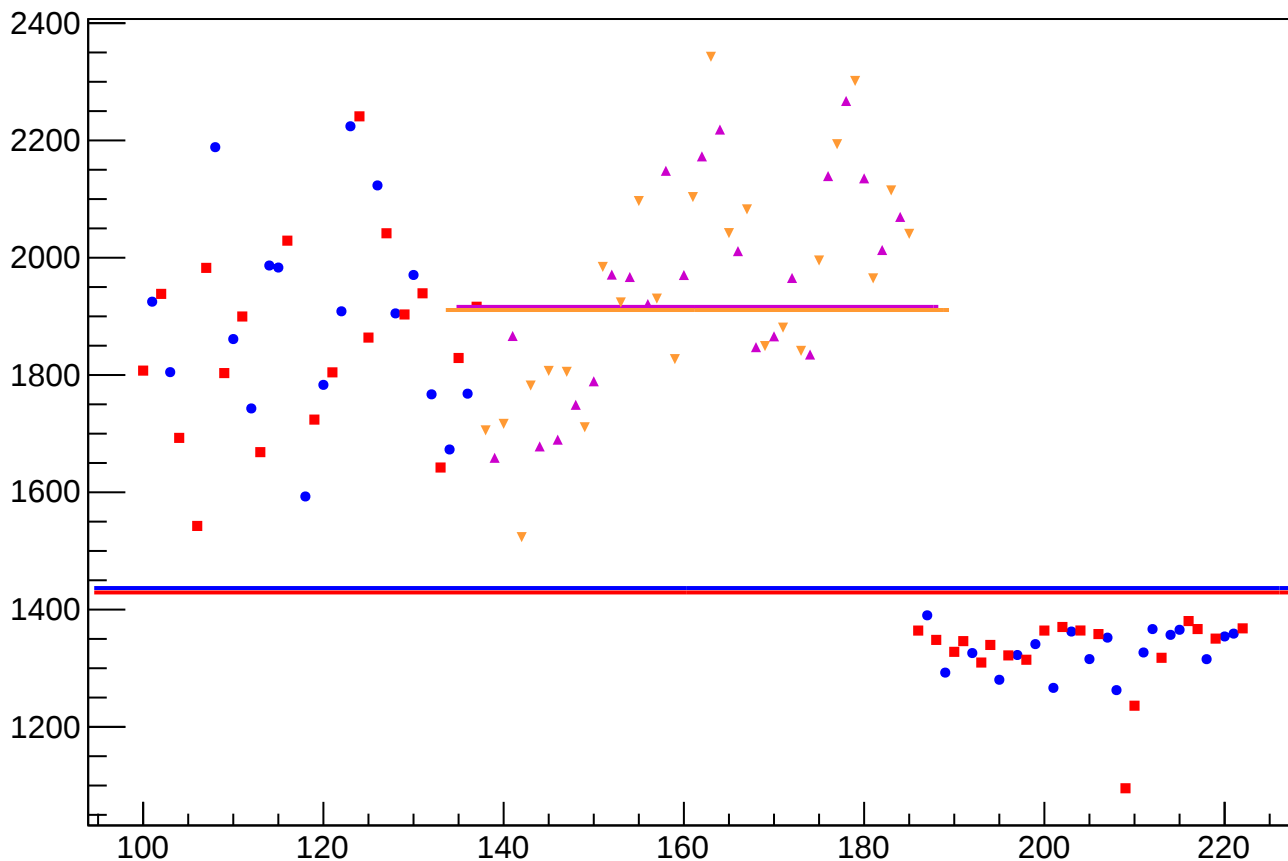
Left In: -3.960 $\pm$ 0.463 χ^2 /NDF: 464.9/22

+ sign 14.343 $\pm$ 0.266 χ^2 /NDF: 1094.7/59

All: 10.941 $\pm$ 0.187 χ^2 /NDF: 7454.2/120

- sign 7.591 $\pm$ 0.264 χ^2 /NDF: 6033.8/60

diff_bpm0i01aY_rms vs Slug



Right In: 1436.747 $\pm$ 0.233 χ^2 /NDF: 907034.6/34

Left Out: 1910.859 $\pm$ 0.316 χ^2 /NDF: 328970.6/24

Right Out: 1429.223 $\pm$ 0.227 χ^2 /NDF: 989439.7/37

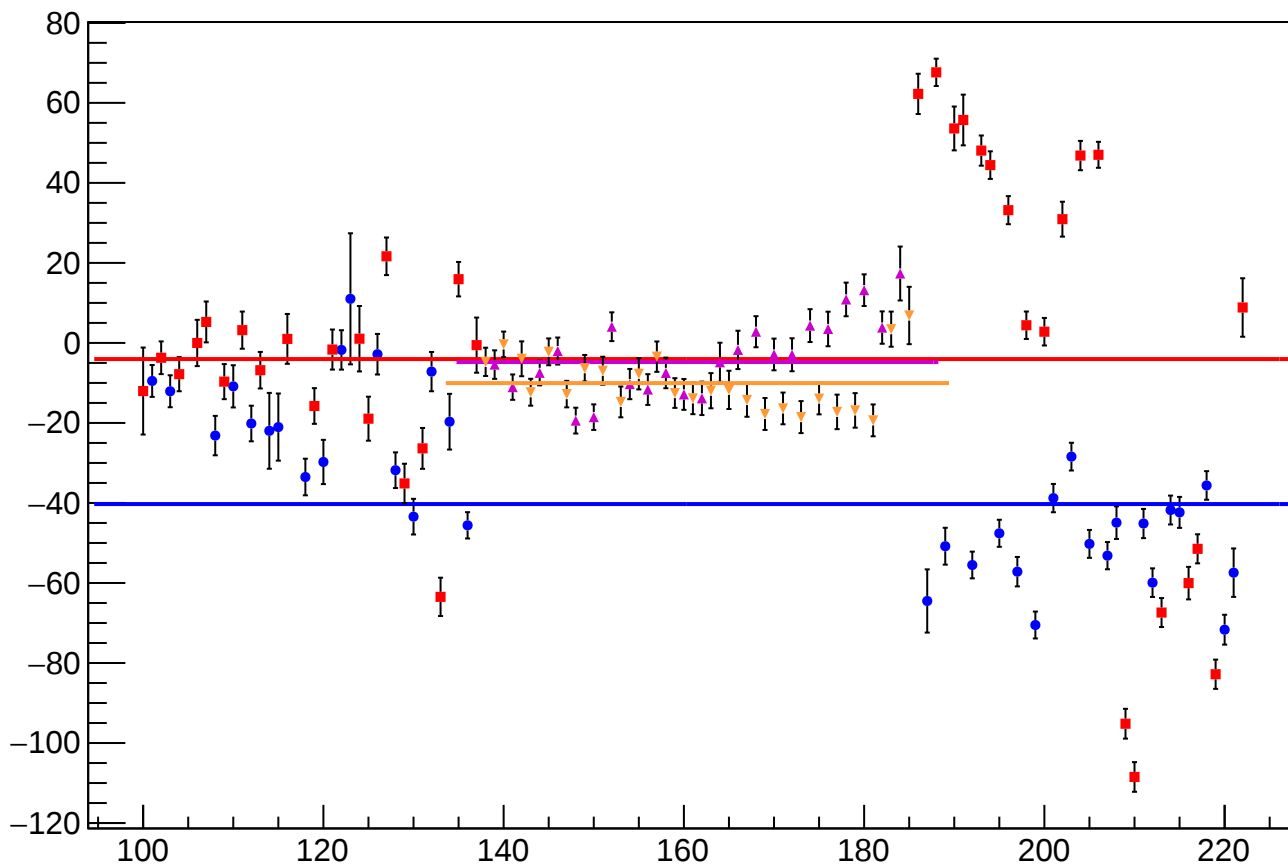
Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF: 274285.3/22

+ sign 1603.803 $\pm$ 0.188 χ^2 /NDF: 2690538.9/59

All: 1595.400 $\pm$ 0.132 χ^2 /NDF: 5454141.5/12

- sign 1587.125 $\pm$ 0.186 χ^2 /NDF: 2759628.9/60

diff_bpm0l01X_mean vs Slug



Right In: -40.274 ± 0.713 χ^2/NDF : 665.2/34

Left Out: -10.042 ± 0.776 χ^2/NDF : 67.1/24

Right Out: -4.033 ± 0.706 χ^2/NDF : 4645.3/37

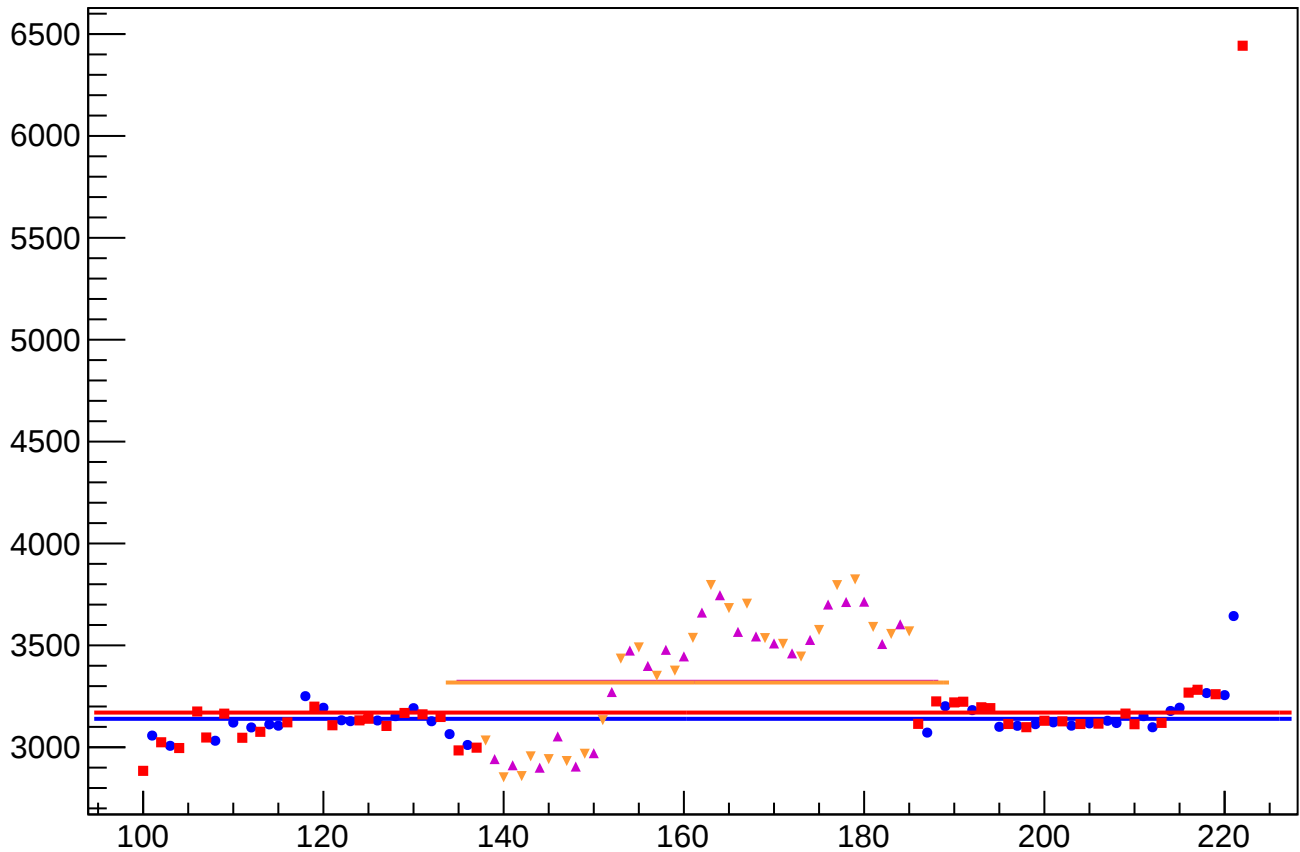
Left In: -4.774 ± 0.800 χ^2/NDF : 128.5/22

+ sign -26.440 ± 0.525 χ^2/NDF : 1554.9/59

All: -15.489 ± 0.373 χ^2/NDF : 7206.2/120

- sign -4.357 ± 0.529 χ^2/NDF : 4774.3/60

diff_bpm0l01X_rms vs Slug



Right In: 3139.490 $\pm$ 0.504 χ^2 /NDF: 30269.2/34

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

Right Out: 3170.207 $\pm$ 0.499 χ^2 /NDF: 427029.5/37

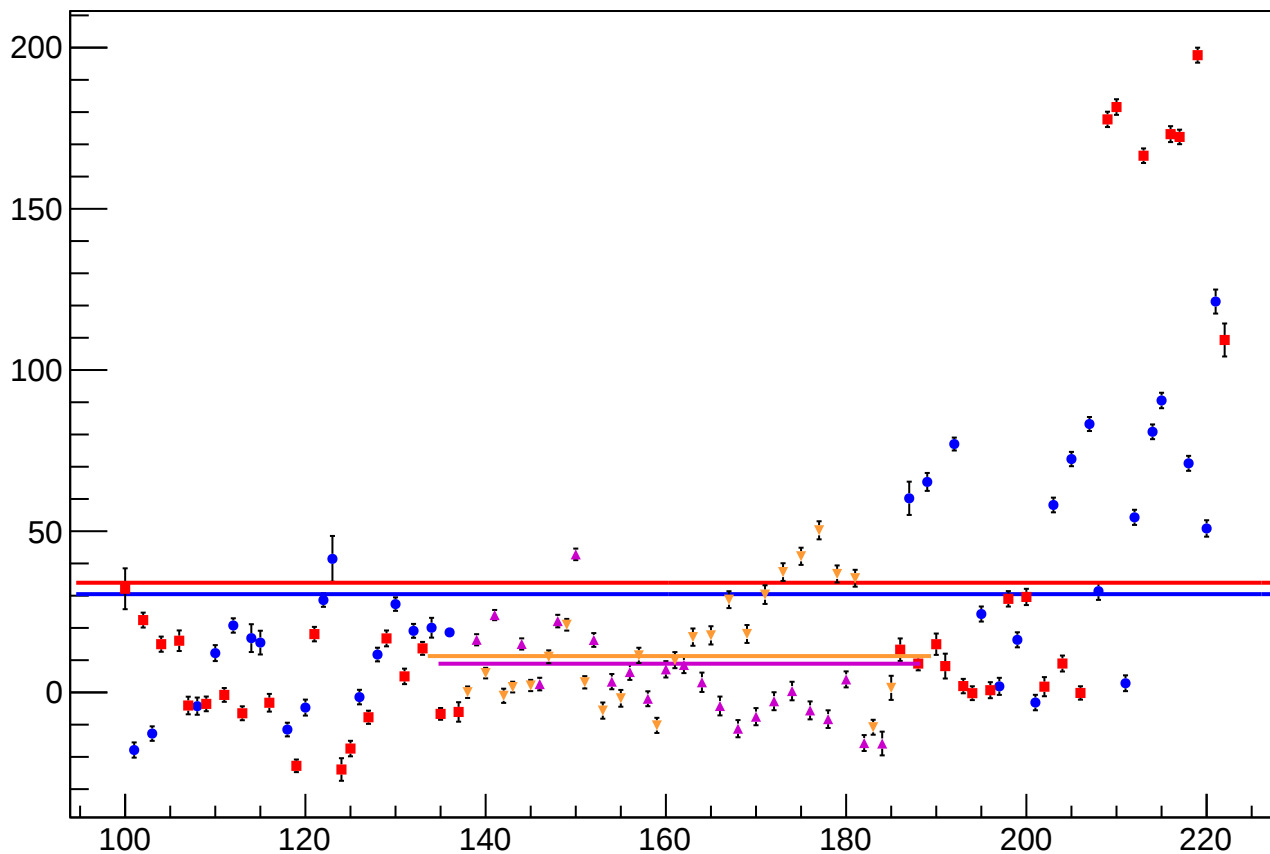
Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF: 284334.2/22

+ sign 3221.034 $\pm$ 0.371 χ^2 /NDF: 424310.7/59

All: 3228.600 $\pm$ 0.264 χ^2 /NDF: 1176584.1/12

- sign 3236.291 $\pm$ 0.374 χ^2 /NDF: 751436.1/60

diff_bpm0l01Y_mean vs Slug



Right In: 30.481 ± 0.403 χ^2/NDF : 6535.7/34

Left Out: 11.268 ± 0.454 χ^2/NDF : 1141.8/24

Right Out: 34.019 ± 0.397 χ^2/NDF : 28674.2/37

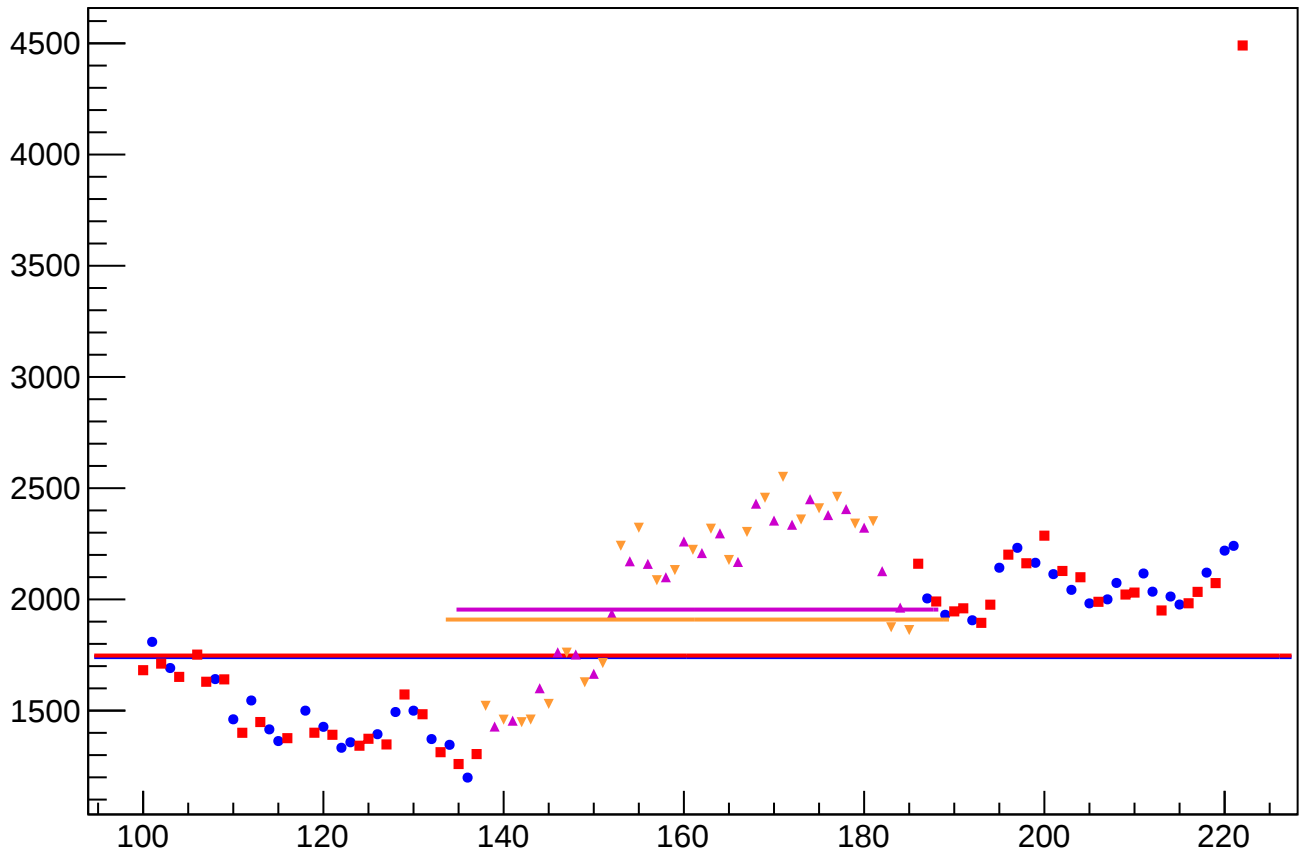
Left In: 8.905 ± 0.478 χ^2/NDF : 936.3/22

+ sign 22.014 ± 0.302 χ^2/NDF : 8677.5/59

All: 22.874 ± 0.215 χ^2/NDF : 39940.0/120

- sign 23.755 ± 0.305 χ^2/NDF : 31246.0/60

diff_bpm0l01Y_rms vs Slug



Right In: 1740.596 $\pm$ 0.285 χ^2 /NDF: 1423088.6/34

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

Right Out: 1747.587 $\pm$ 0.281 χ^2 /NDF: 1870656.0/37

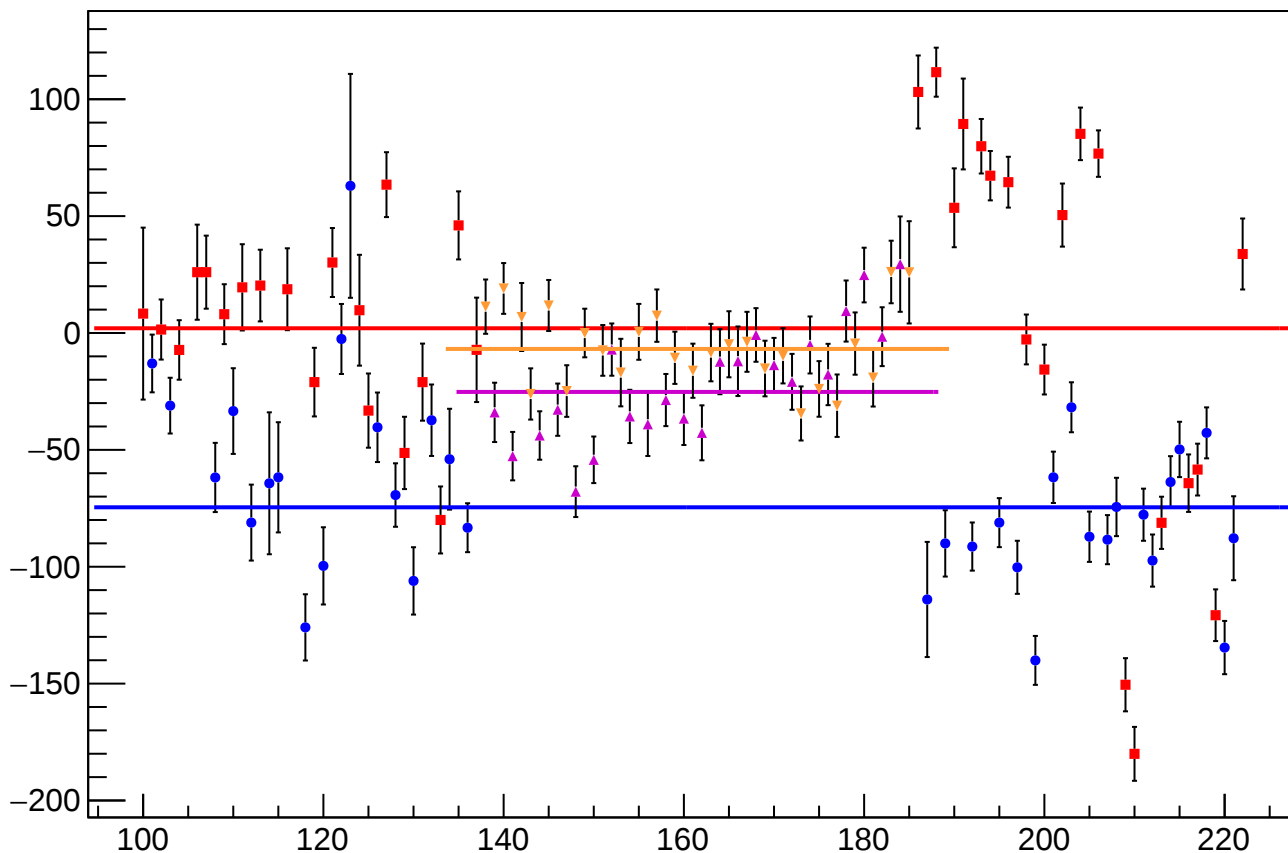
Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

+ sign 1814.983 $\pm$ 0.213 χ^2 /NDF: 2975957.1/59

All: 1823.411 $\pm$ 0.152 χ^2 /NDF: 6116072.5/12

- sign 1832.045 $\pm$ 0.216 χ^2 /NDF: 3136953.9/60

diff_bpm0l02X_mean vs Slug



Right In: -74.573 ± 2.206 $\chi^2/\text{NDF}: 227.0/34$

Left Out: -6.825 ± 2.423 $\chi^2/\text{NDF}: 42.3/24$

Right Out: 2.022 ± 2.175 $\chi^2/\text{NDF}: 1188.7/37$

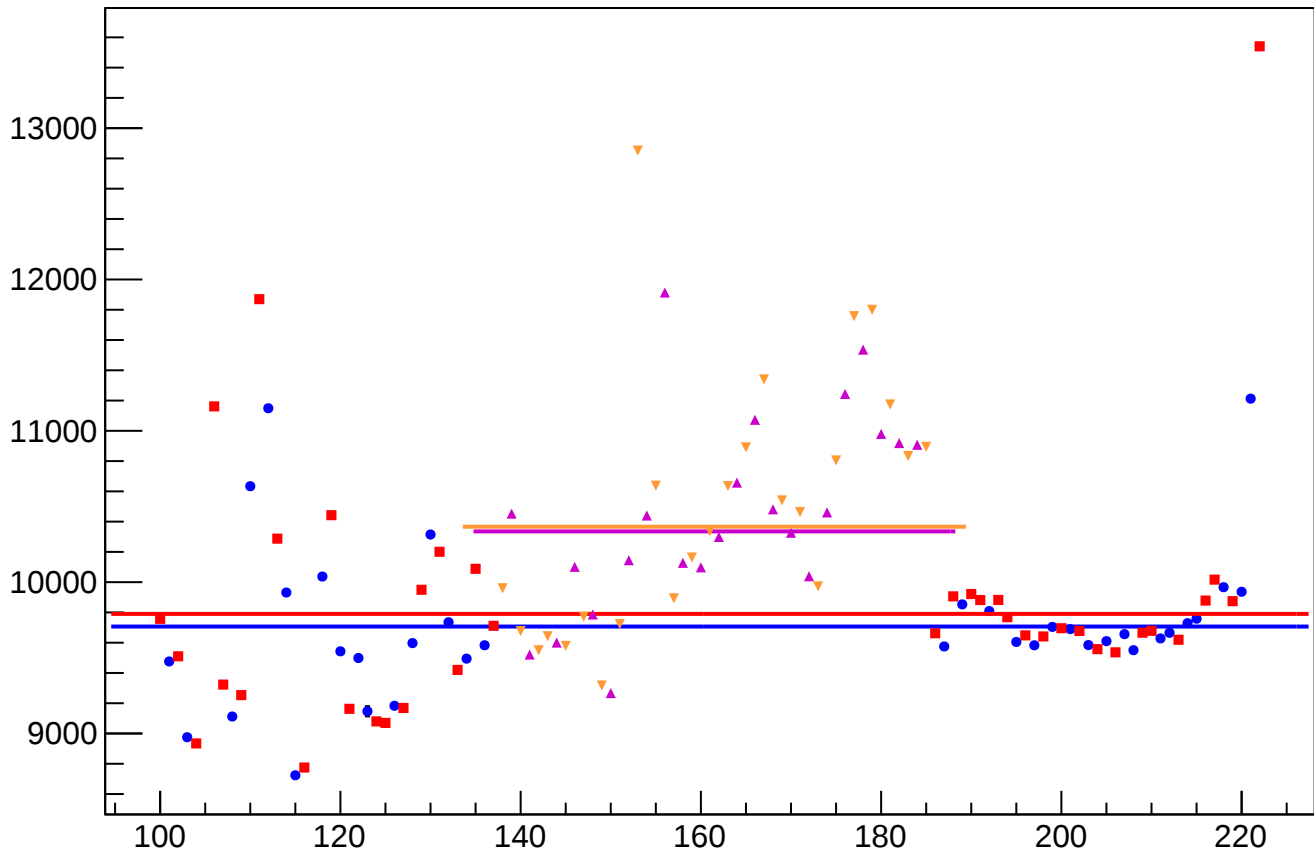
Left In: -25.215 ± 2.487 $\chi^2/\text{NDF}: 89.3/22$

+ sign -43.861 ± 1.631 $\chi^2/\text{NDF}: 696.9/59$

All: -26.884 ± 1.155 $\chi^2/\text{NDF}: 2260.3/120$

- sign -9.783 ± 1.637 $\chi^2/\text{NDF}: 1346.0/60$

diff_bpm0l02X_rms vs Slug



Right In: 9706.690+/-1.560 χ^2/NDF : 62378.9/34

Left Out: 10366.534+/-1.713 χ^2/NDF : 211402.8/24

Right Out: 9790.346+/-1.538 χ^2/NDF : 207573.2/37

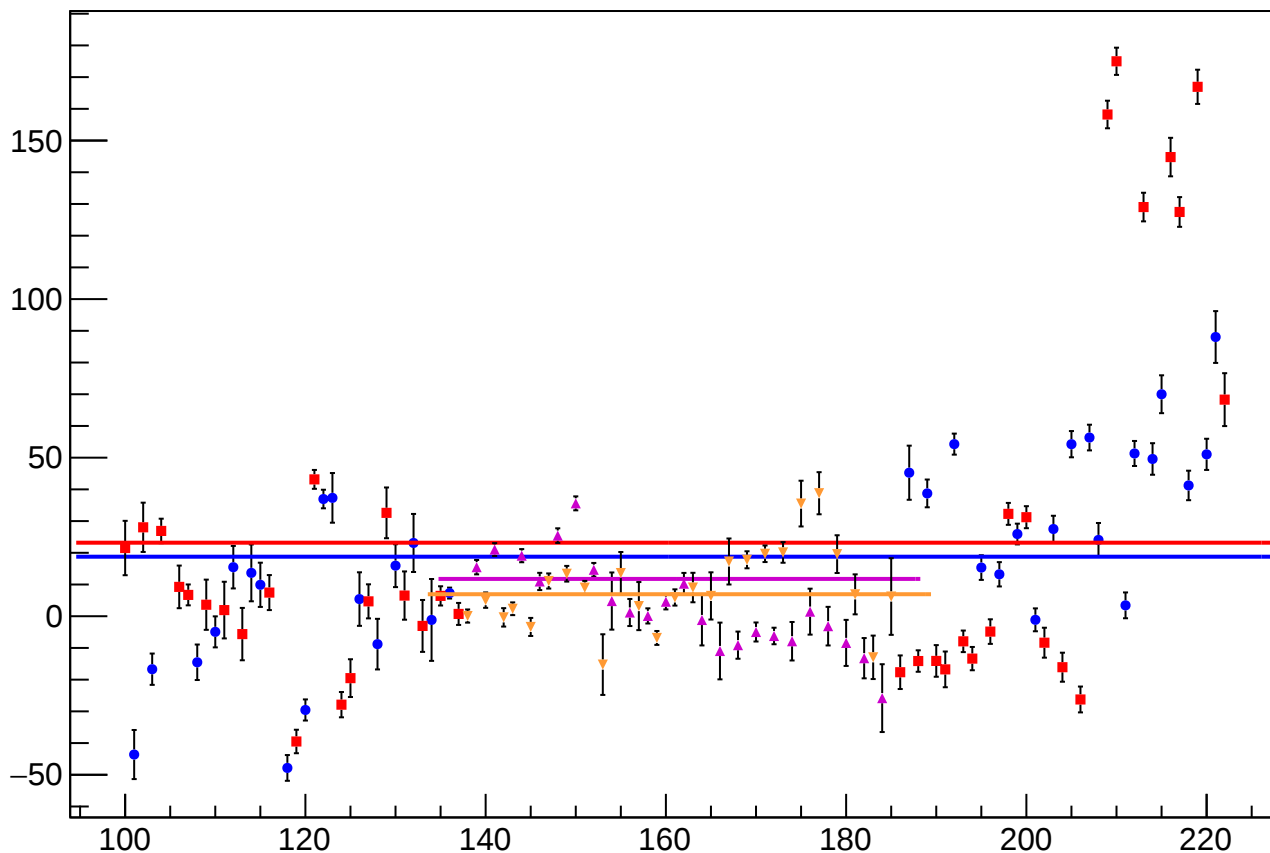
Left In: 10335.399+/-1.758 χ^2/NDF : 127173.0/22

+ sign 10005.817+/-1.153 χ^2/NDF : 354896.0/59

All: 10016.162+/-0.817 χ^2/NDF : 744248.7/12

- sign 10026.583+/-1.158 χ^2/NDF : 389191.1/60

diff_bpm0l02Y_mean vs Slug



Right In: 18.770 ± 0.736 $\chi^2/\text{NDF}: 1443.8/34$

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

Right Out: 23.186 ± 0.734 $\chi^2/\text{NDF}: 5909.0/37$

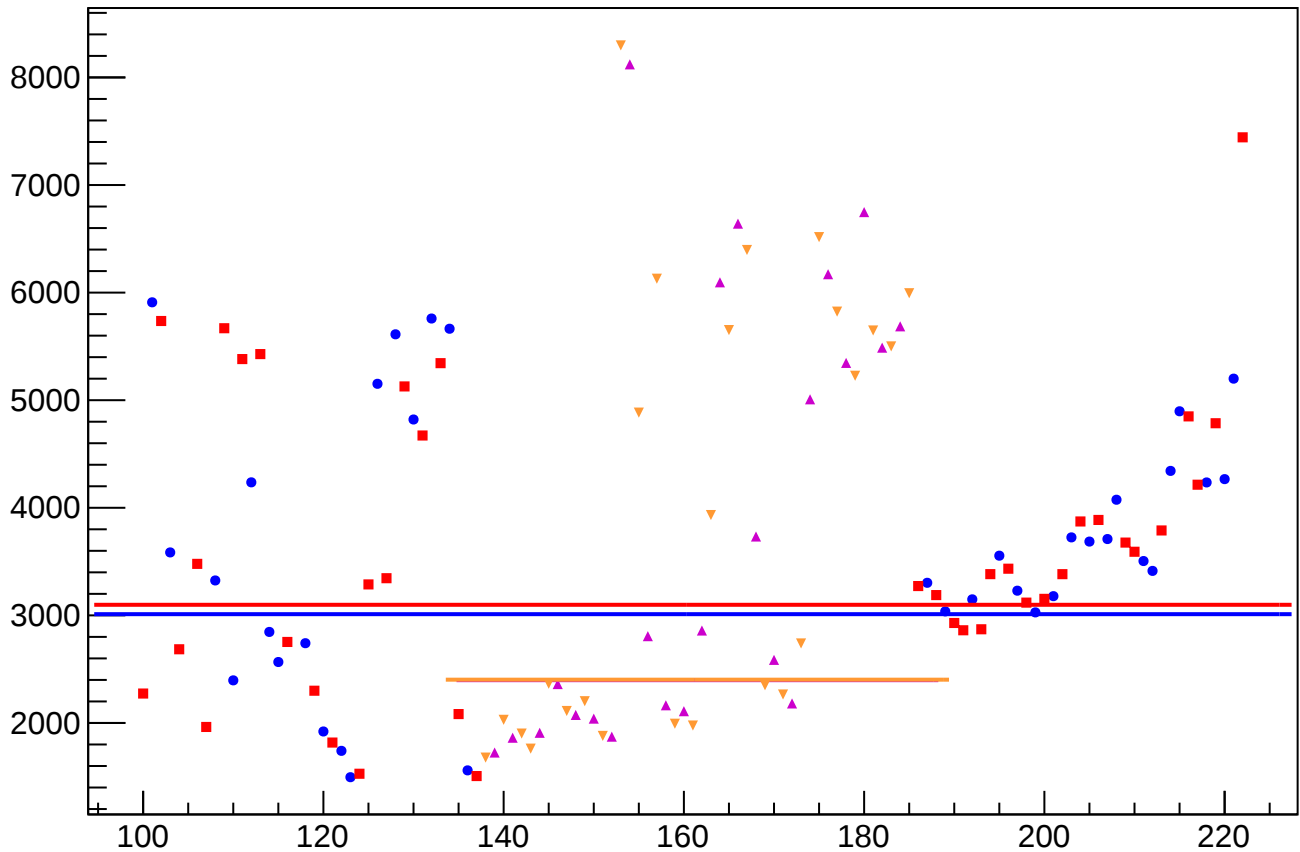
Left In: 11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

+ sign 12.022 ± 0.482 $\chi^2/\text{NDF}: 1795.1/59$

All: 14.381 ± 0.342 $\chi^2/\text{NDF}: 8283.4/120$

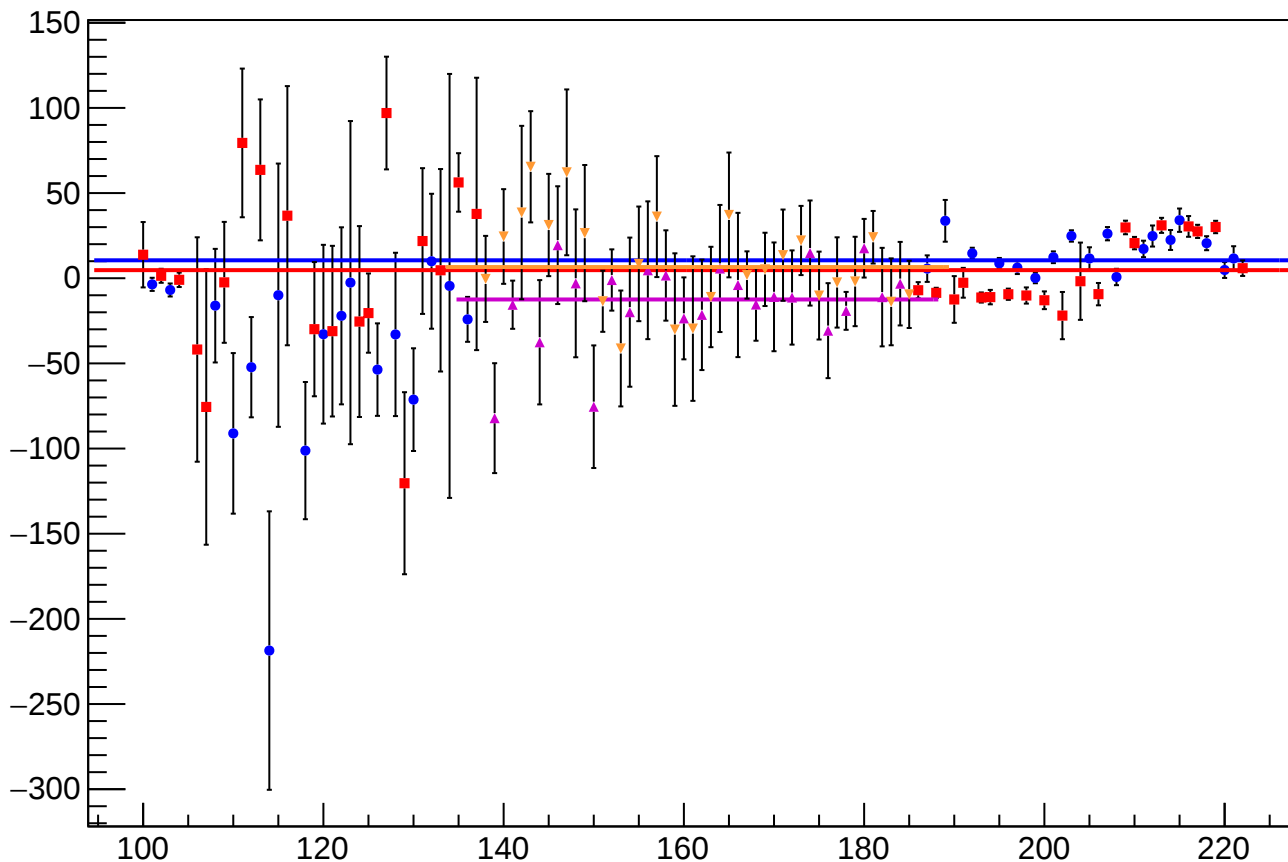
- sign 16.773 ± 0.486 $\chi^2/\text{NDF}: 6440.2/60$

diff_bpm0l02Y_rms vs Slug



Right In: 3011.213+/-0.520	χ^2/NDF : 4381017.8/34	+ sign 2663.958+/-0.341	χ^2/NDF : 11507761.5/59
Left Out: 2402.359+/-0.452	χ^2/NDF : 6345982.8/24	All: 2684.294+/-0.242	χ^2/NDF : 22064464.7/1
Right Out: 3098.368+/-0.519	χ^2/NDF : 4126454.8/37	- sign 2704.922+/-0.344	χ^2/NDF : 10549543.5/60
Left In: 2397.701+/-0.458	χ^2/NDF : 5398920.1/22		

diff_bpm0l03X_mean vs Slug



Right In: 10.530 ± 0.959 $\chi^2/\text{NDF}: 169.0/34$

Left Out: 6.560 ± 5.077 $\chi^2/\text{NDF}: 16.8/24$

Right Out: 4.751 ± 0.962 $\chi^2/\text{NDF}: 348.7/37$

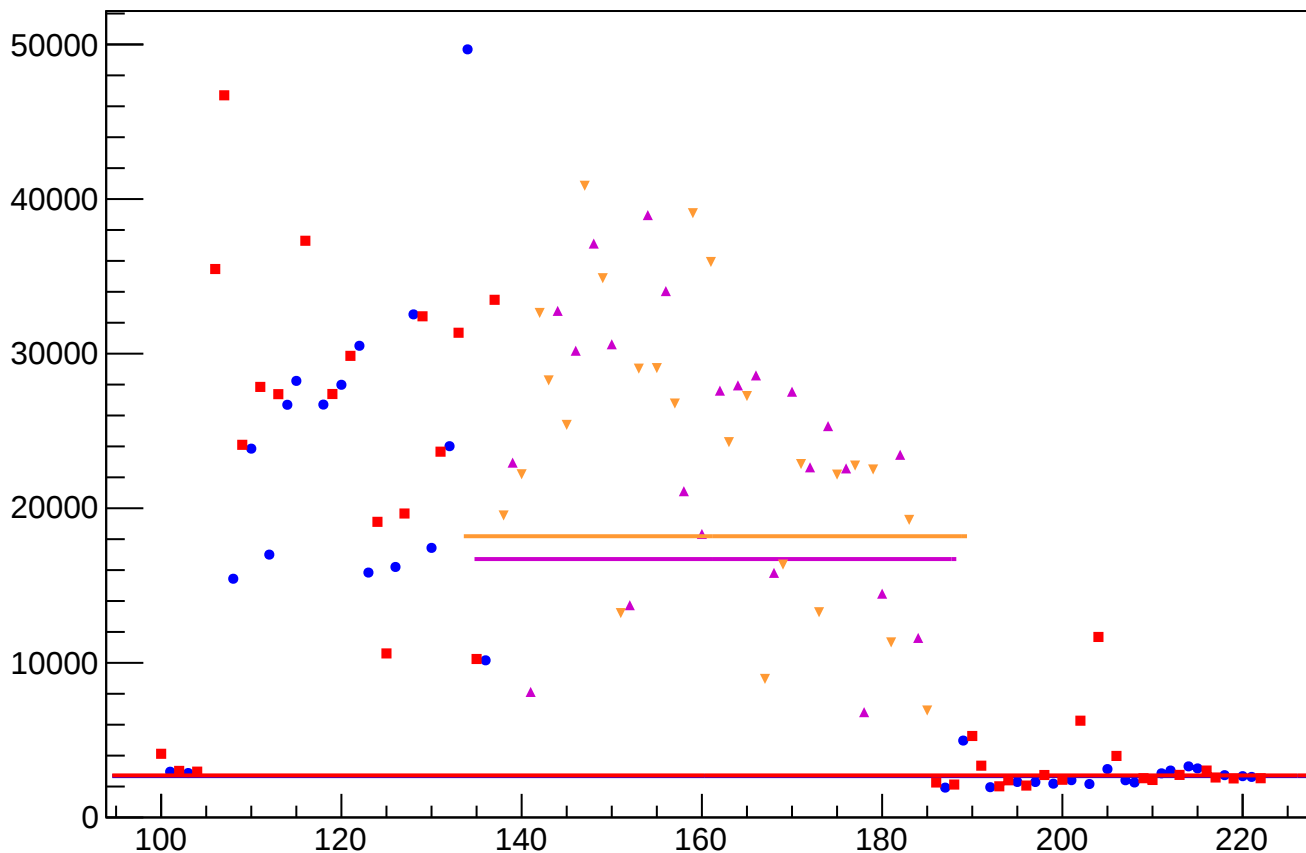
Left In: -12.469 ± 5.025 $\chi^2/\text{NDF}: 15.4/22$

+ sign 10.393 ± 0.943 $\chi^2/\text{NDF}: 186.3/59$

All: 7.274 ± 0.667 $\chi^2/\text{NDF}: 583.7/120$

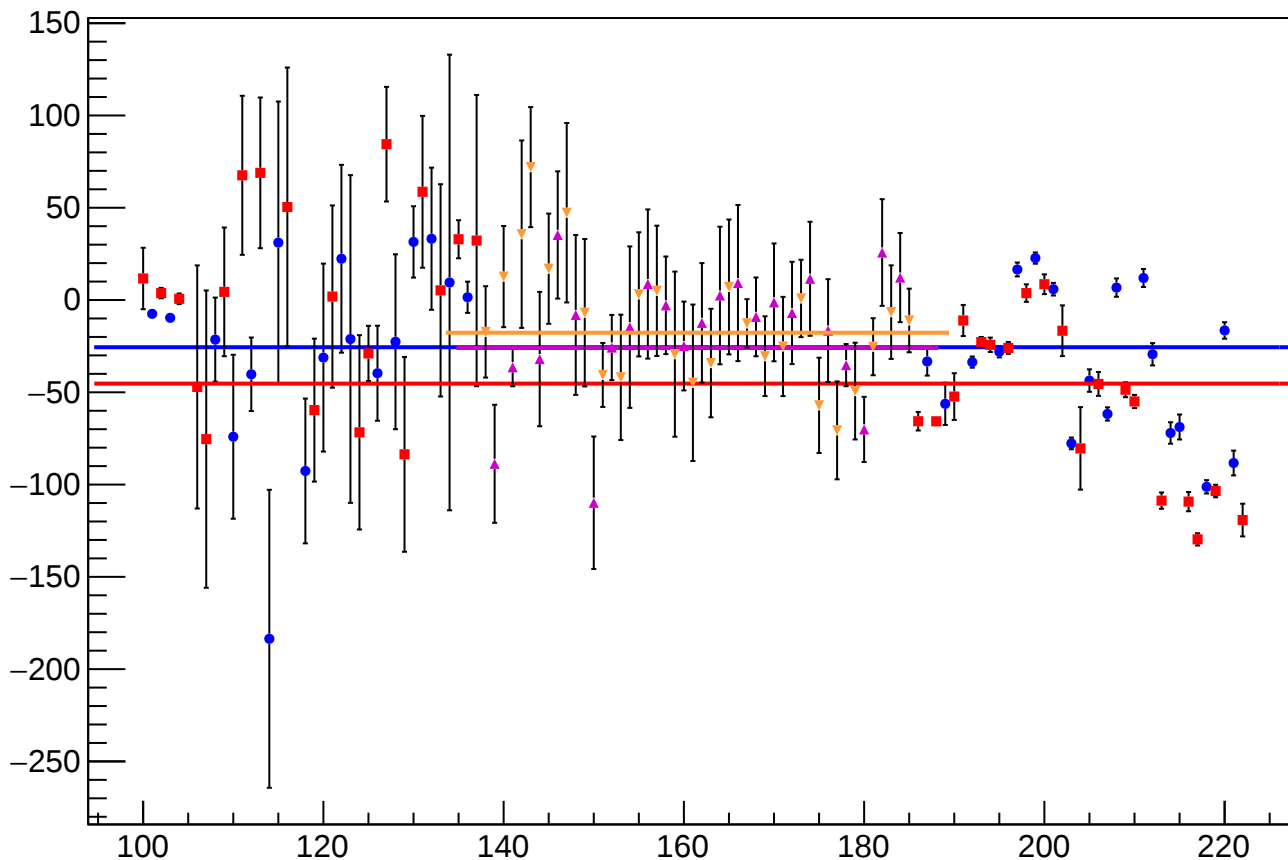
- sign 4.143 ± 0.944 $\chi^2/\text{NDF}: 375.4/60$

diff_bpm0l03X_rms vs Slug



Right In: 2673.661+/-0.678	χ^2/NDF : 7047322.8/34	+ sign 3208.555+/-0.667	χ^2/NDF : 30343279.4/59
Left Out: 18190.387+/-3.590	χ^2/NDF : 5261328.5/24	All: 3211.035+/-0.472	χ^2/NDF : 60597613.5/1
Right Out: 2719.241+/-0.680	χ^2/NDF : 9097690.2/37	- sign 3213.525+/-0.668	χ^2/NDF : 30254306.4/60
Left In: 16713.653+/-3.553	χ^2/NDF : 6194178.8/22		

diff_bpm0l03Y_mean vs Slug



Right In: -25.572 ± 0.866 χ^2/NDF : 1710.4/34

Left Out: -17.717 ± 4.974 χ^2/NDF : 27.2/24

Right Out: -45.284 ± 0.880 χ^2/NDF : 2493.3/37

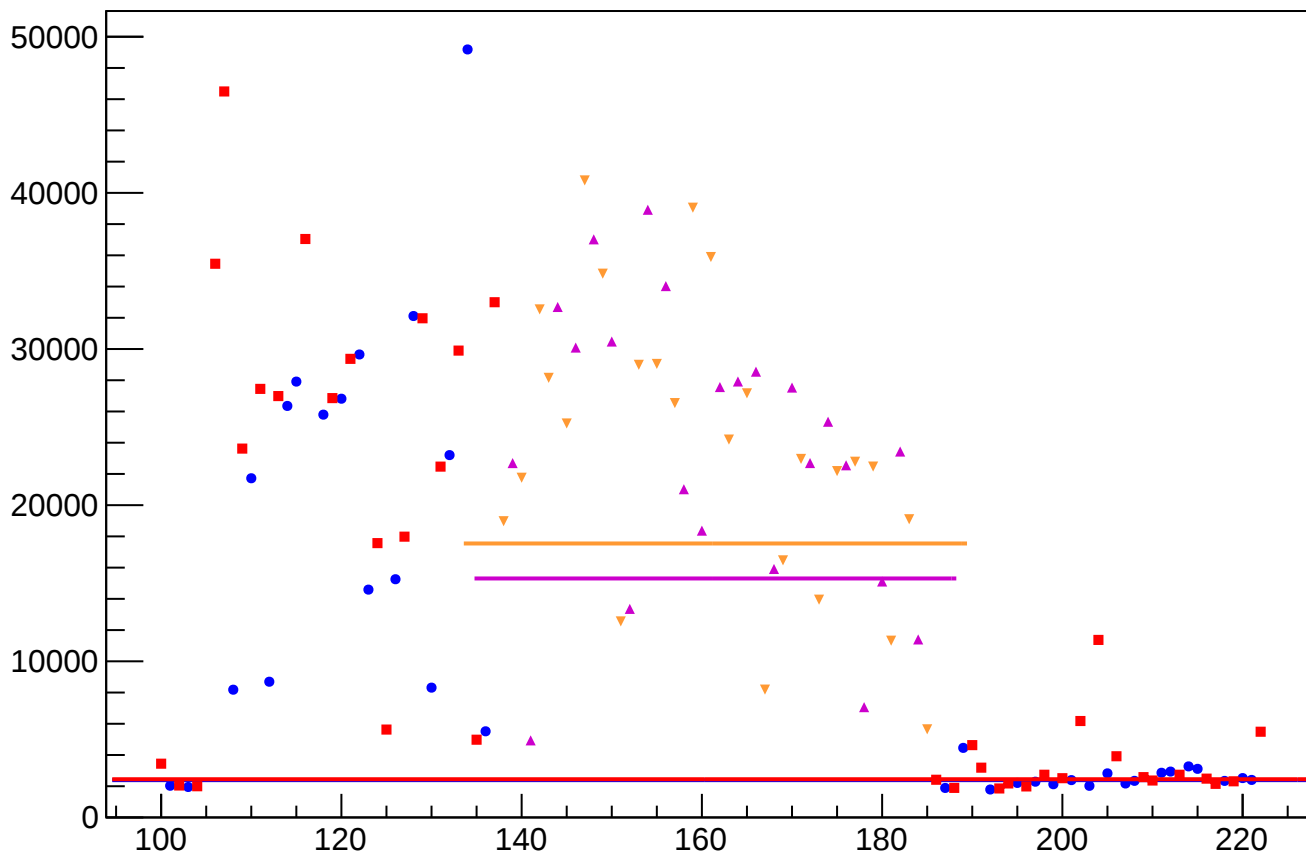
Left In: -25.991 ± 4.789 χ^2/NDF : 32.6/22

+ sign -25.341 ± 0.853 χ^2/NDF : 1740.0/59

All: -34.855 ± 0.607 χ^2/NDF : 4534.2/120

- sign -44.654 ± 0.866 χ^2/NDF : 2541.6/60

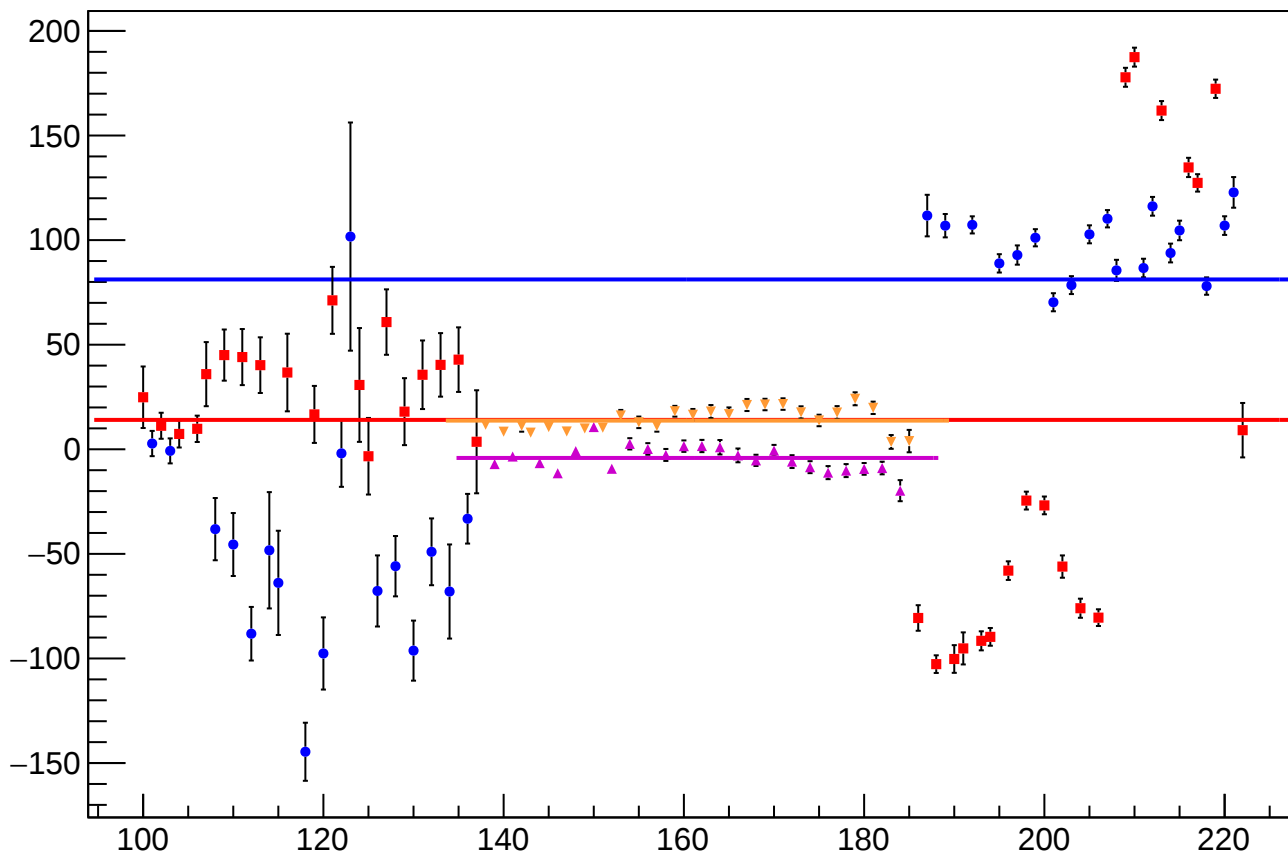
diff_bpm0l03Y_rms vs Slug



Right In: 2389.842 ± 0.612 $\chi^2/\text{NDF}: 5930727.3/34$
 Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$
 Right Out: 2447.676 ± 0.622 $\chi^2/\text{NDF}: 9015441.3/37$
 Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

+ sign 2835.407 ± 0.603 $\chi^2/\text{NDF}: 29855553.9/59$
 All: 2851.303 ± 0.430 $\chi^2/\text{NDF}: 60539943.5/1$
 - sign 2867.674 ± 0.612 $\chi^2/\text{NDF}: 30682979.3/60$

diff_bpm0l04X_mean vs Slug



Right In: 81.191 ± 1.023 χ^2/NDF : 1992.4/34

Left Out: 13.710 ± 0.535 χ^2/NDF : 89.9/24

Right Out: 14.052 ± 1.009 χ^2/NDF : 10816.4/37

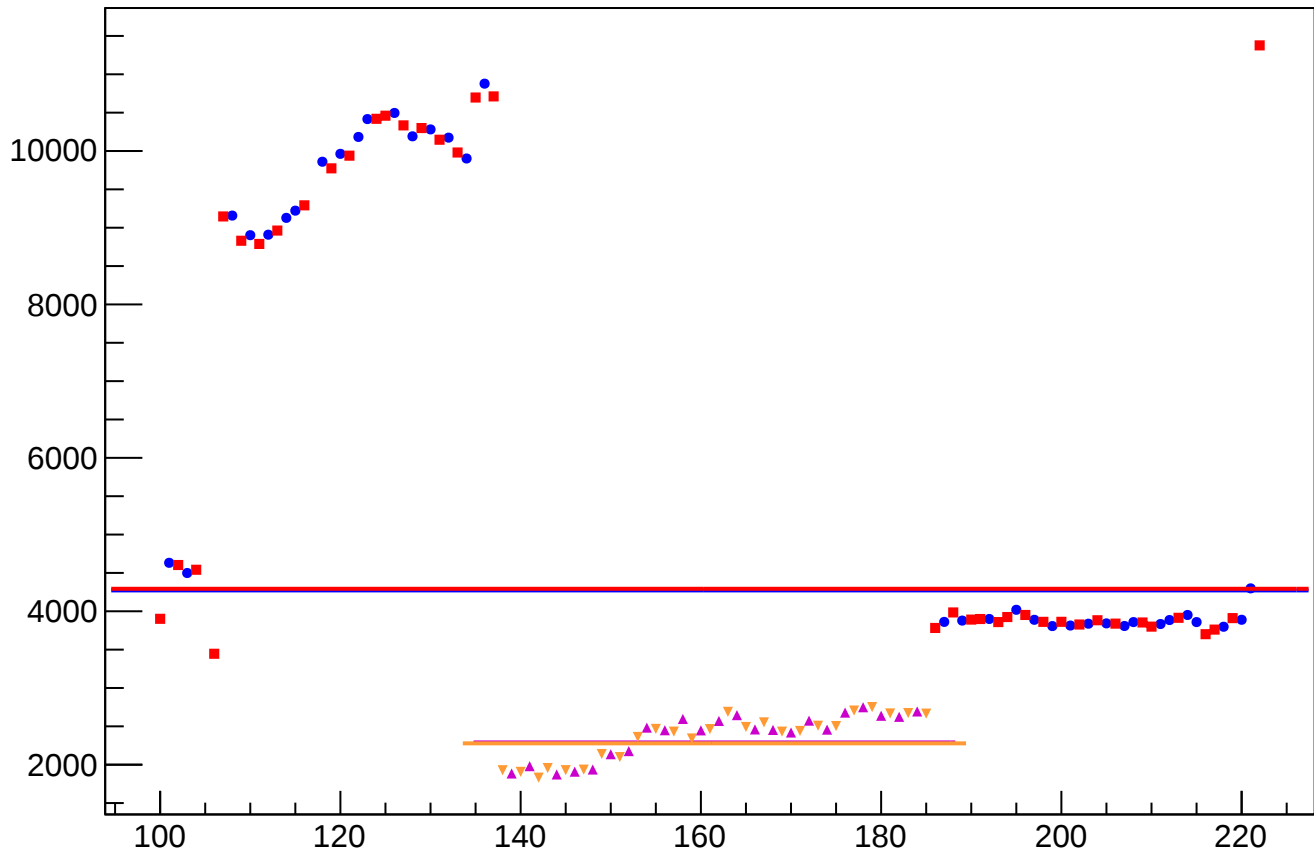
Left In: -4.141 ± 0.555 χ^2/NDF : 111.7/22

+ sign 28.205 ± 0.474 χ^2/NDF : 5496.5/59

All: 14.491 ± 0.340 χ^2/NDF : 18388.6/120

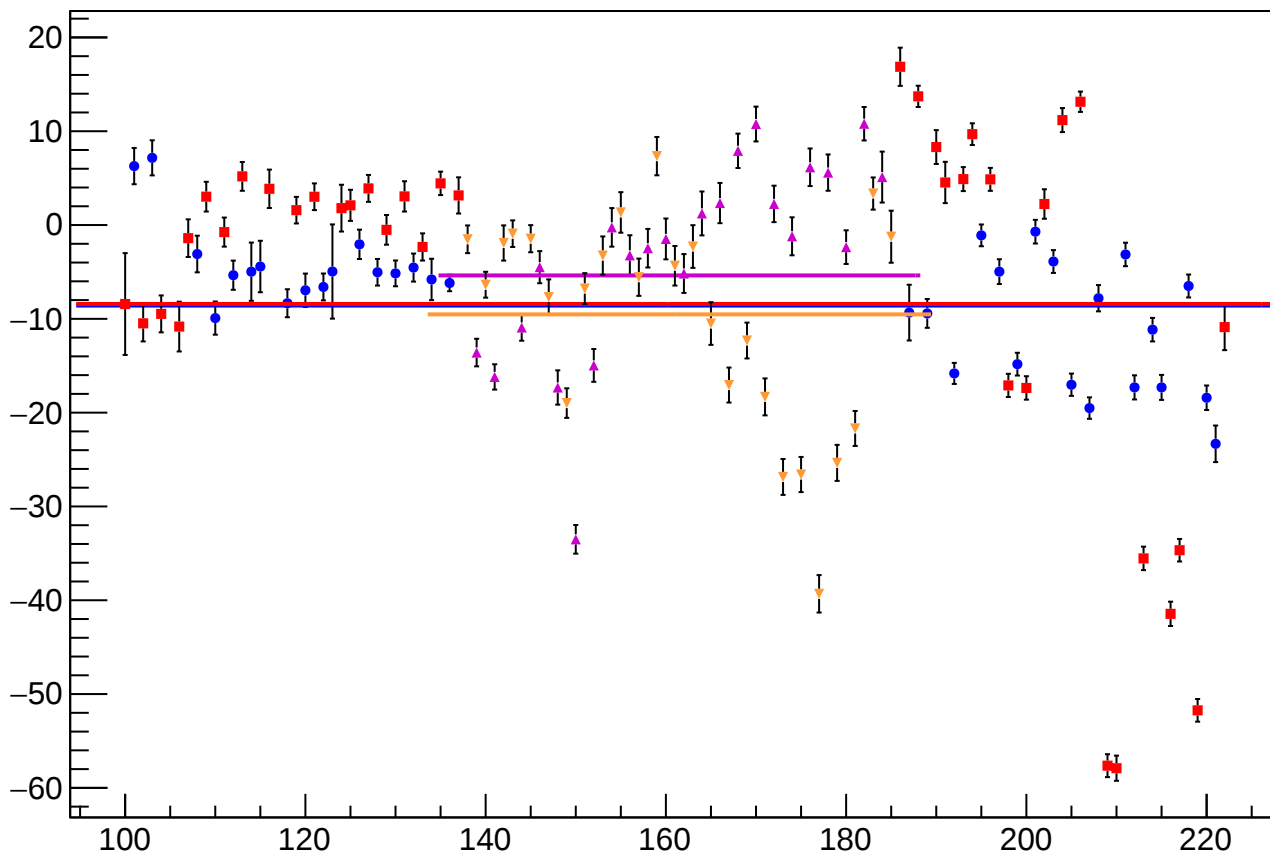
- sign 0.081 ± 0.486 χ^2/NDF : 11177.6/60

diff_bpm0l04X_rms vs Slug



Right In: 4271.956+/-0.724 χ^2/NDF : 3908545.4/34 + sign 2706.407+/-0.335 χ^2/NDF : 10477022.1/59
 Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24 All: 2730.209+/-0.240 χ^2/NDF : 21669831.4/1
 Right Out: 4293.217+/-0.714 χ^2/NDF : 4544224.0/37 - sign 2755.220+/-0.344 χ^2/NDF : 11182479.5/60
 Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

diff_bpm0l04Y_mean vs Slug



Right In: -8.580 ± 0.242 χ^2/NDF : 738.4/34

Left Out: -9.524 ± 0.365 χ^2/NDF : 884.1/24

Right Out: -8.415 ± 0.240 χ^2/NDF : 8455.4/37

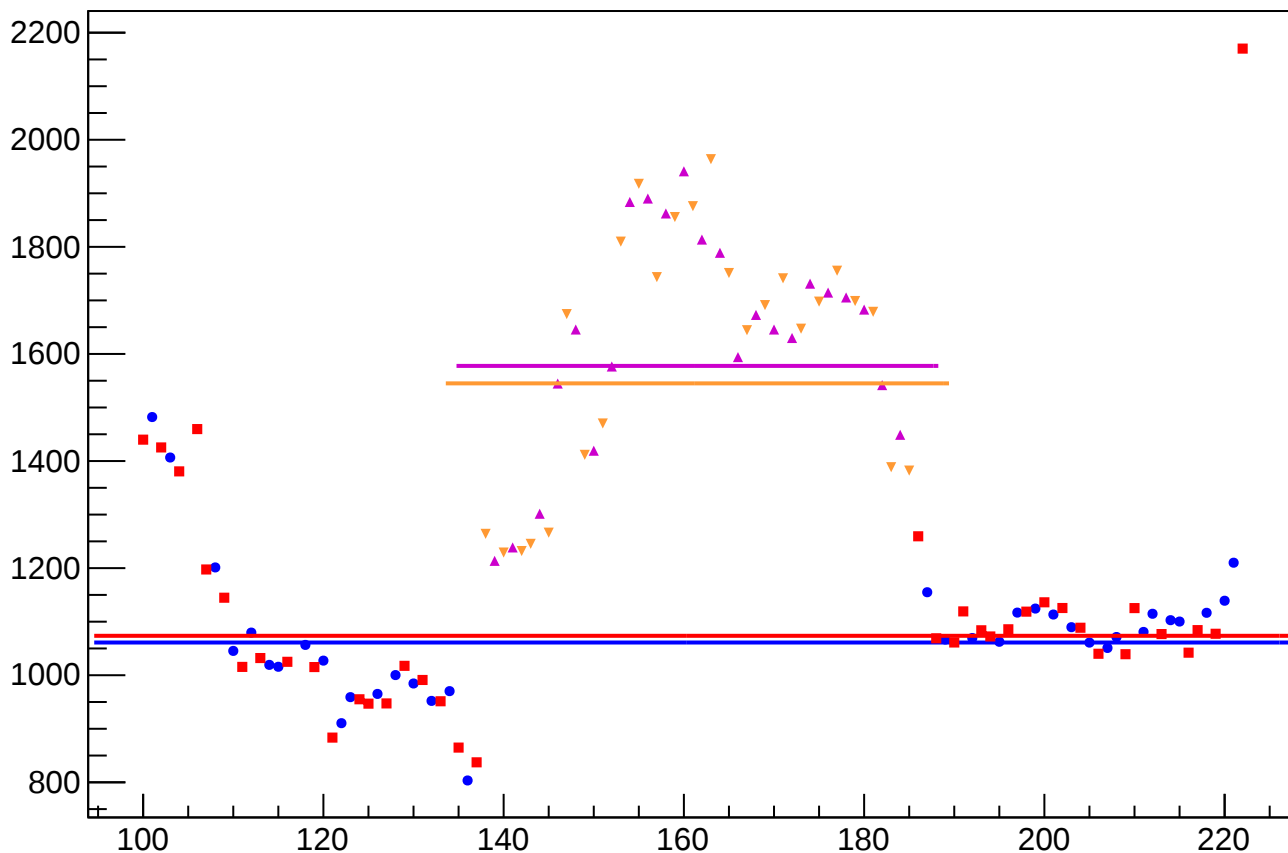
Left In: -5.372 ± 0.383 χ^2/NDF : 869.8/22

+ sign -8.869 ± 0.202 χ^2/NDF : 1627.1/59

All: -8.218 ± 0.143 χ^2/NDF : 11018.7/120

- sign -7.555 ± 0.204 χ^2/NDF : 9370.5/60

diff_bpm0l04Y_rms vs Slug



Right In: 1061.096 $\pm$ 0.171 χ^2 /NDF: 449132.3/34

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

Right Out: 1073.630 $\pm$ 0.170 χ^2 /NDF: 796727.6/37

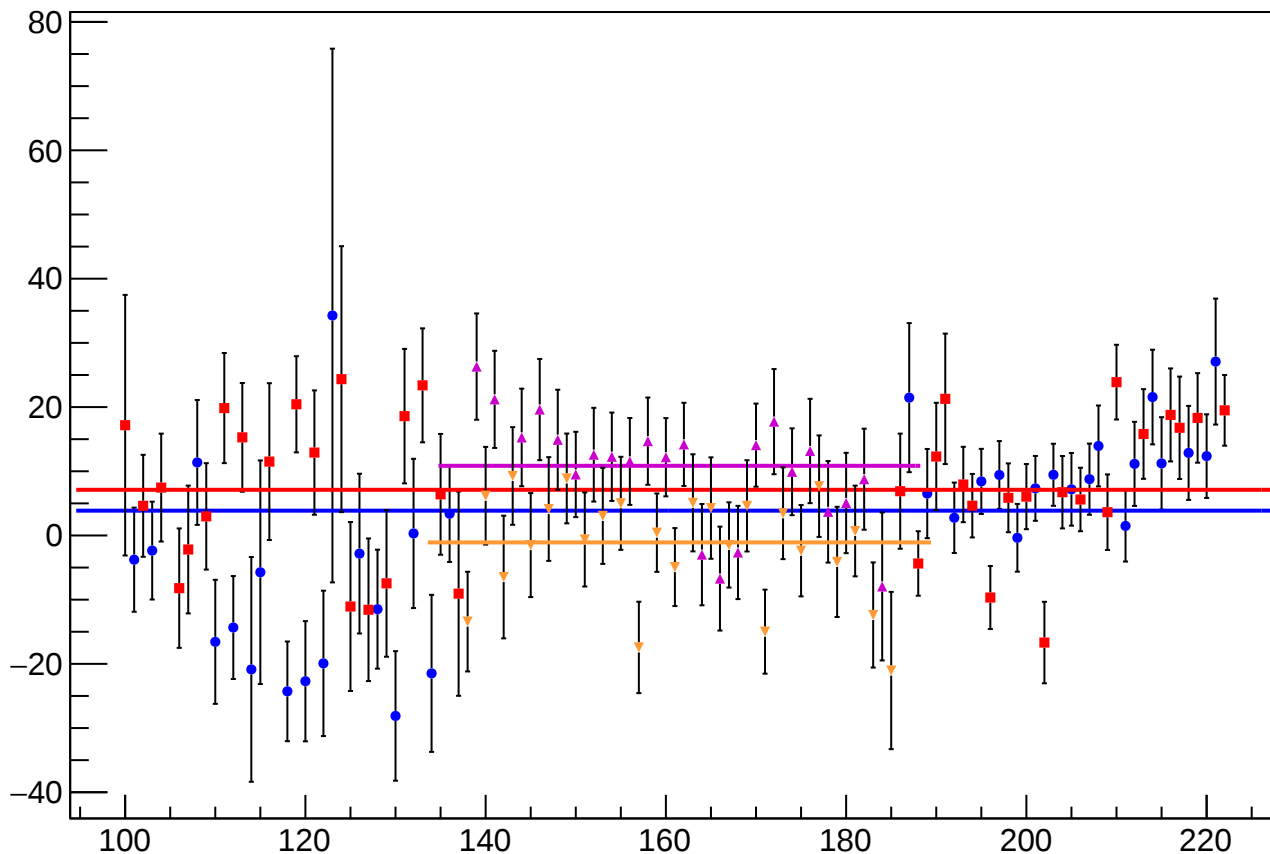
Left In: 1577.685 $\pm$ 0.271 χ^2 /NDF: 625406.2/22

+ sign 1209.236 $\pm$ 0.143 χ^2 /NDF: 3734658.9/59

All: 1212.602 $\pm$ 0.101 χ^2 /NDF: 7644666.0/12

- sign 1216.026 $\pm$ 0.144 χ^2 /NDF: 3908884.7/60

diff_bpm0l05X_mean vs Slug



Right In: 3.865 ± 1.230 $\chi^2/\text{NDF}: 85.3/34$

Left Out: -1.083 ± 1.487 $\chi^2/\text{NDF}: 27.5/24$

Right Out: 7.115 ± 1.180 $\chi^2/\text{NDF}: 79.3/37$

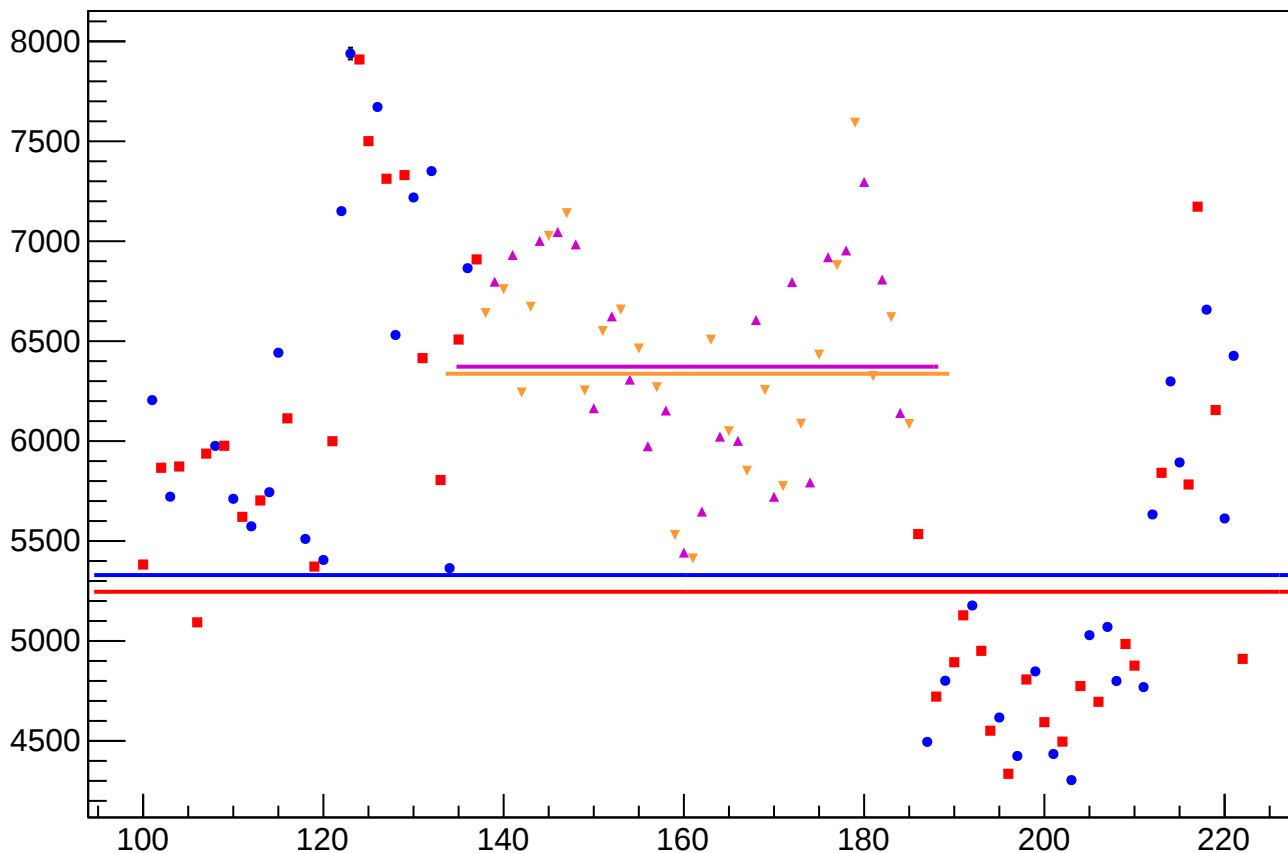
Left In: 10.851 ± 1.542 $\chi^2/\text{NDF}: 24.4/22$

+ sign 1.855 ± 0.948 $\chi^2/\text{NDF}: 119.4/59$

All: 5.213 ± 0.666 $\chi^2/\text{NDF}: 251.5/120$

- sign 8.496 ± 0.937 $\chi^2/\text{NDF}: 107.4/60$

diff_bpm0l05X_rms vs Slug



Right In: 5329.678 $\pm$ 0.870 χ^2 /NDF: 912644.7/34

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

Right Out: 5246.195 $\pm$ 0.835 χ^2 /NDF: 849639.5/37

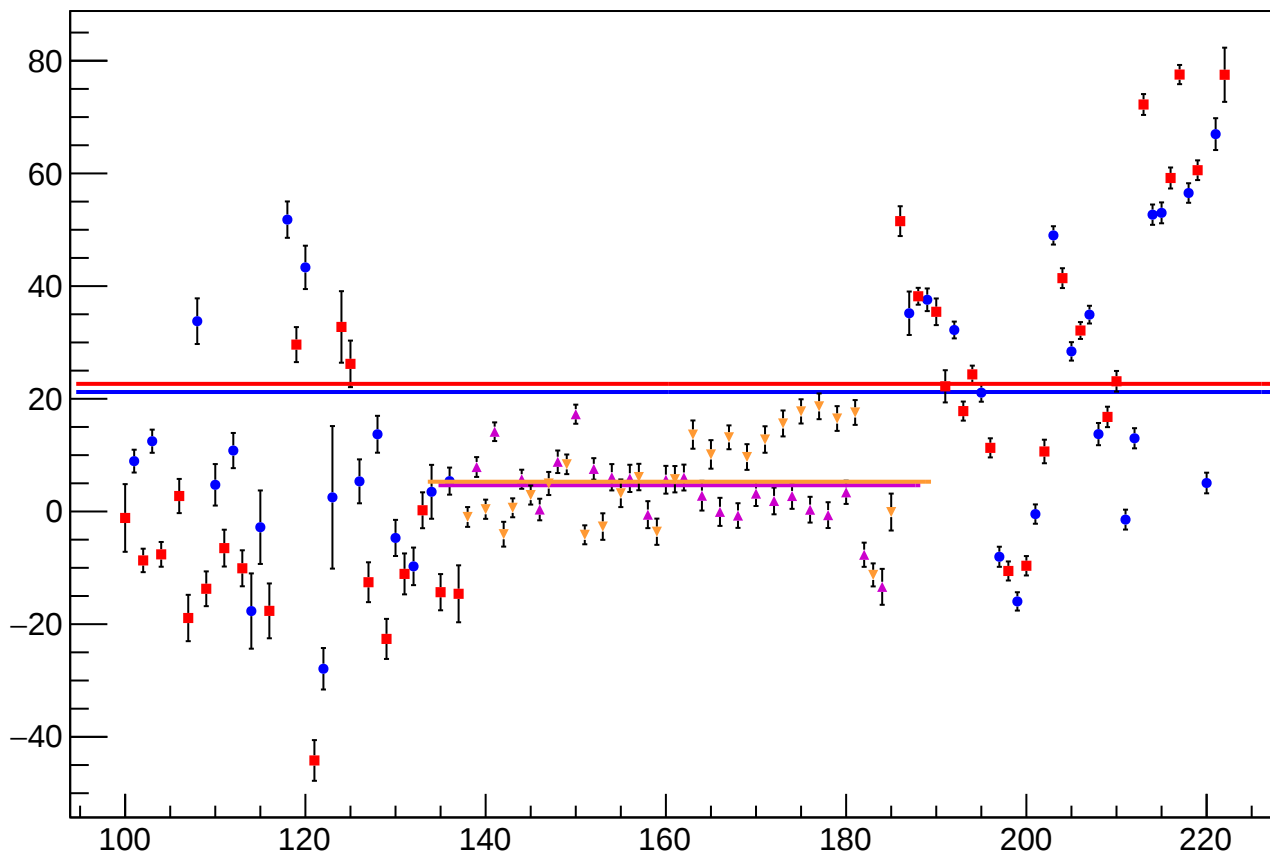
Left In: 6372.349 $\pm$ 1.090 χ^2 /NDF: 247257.0/22

+ sign 5738.793 $\pm$ 0.670 χ^2 /NDF: 1680304.1/59

All: 5700.173 $\pm$ 0.471 χ^2 /NDF: 3456566.1/12

- sign 5662.411 $\pm$ 0.663 χ^2 /NDF: 1769694.6/60

diff_bpm0l05Y_mean vs Slug



Right In: 21.205 $\pm$ 0.374 χ^2 /NDF: 3701.9/34

Left Out: 5.284 $\pm$ 0.421 χ^2 /NDF:366.1/24

Right Out: 22.652 $\pm$ 0.370 χ^2 /NDF: 5887.4/37

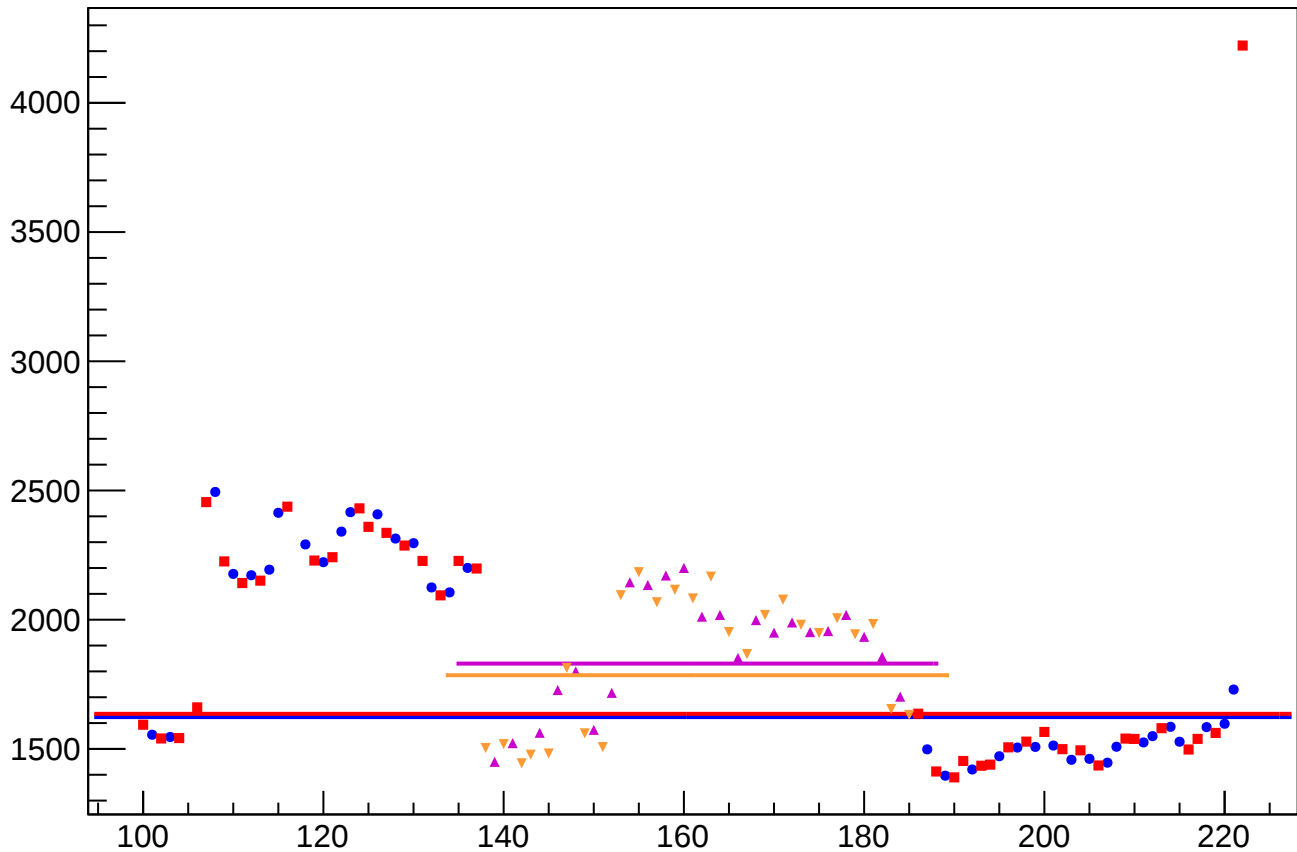
Left In: 4.657 $\pm$ 0.443 χ^2 /NDF:196.5/22

+ sign 14.179 $\pm$ 0.279 χ^2 /NDF: 4868.2/59

All: 14.707 $\pm$ 0.199 χ^2 /NDF: 11929.4/120

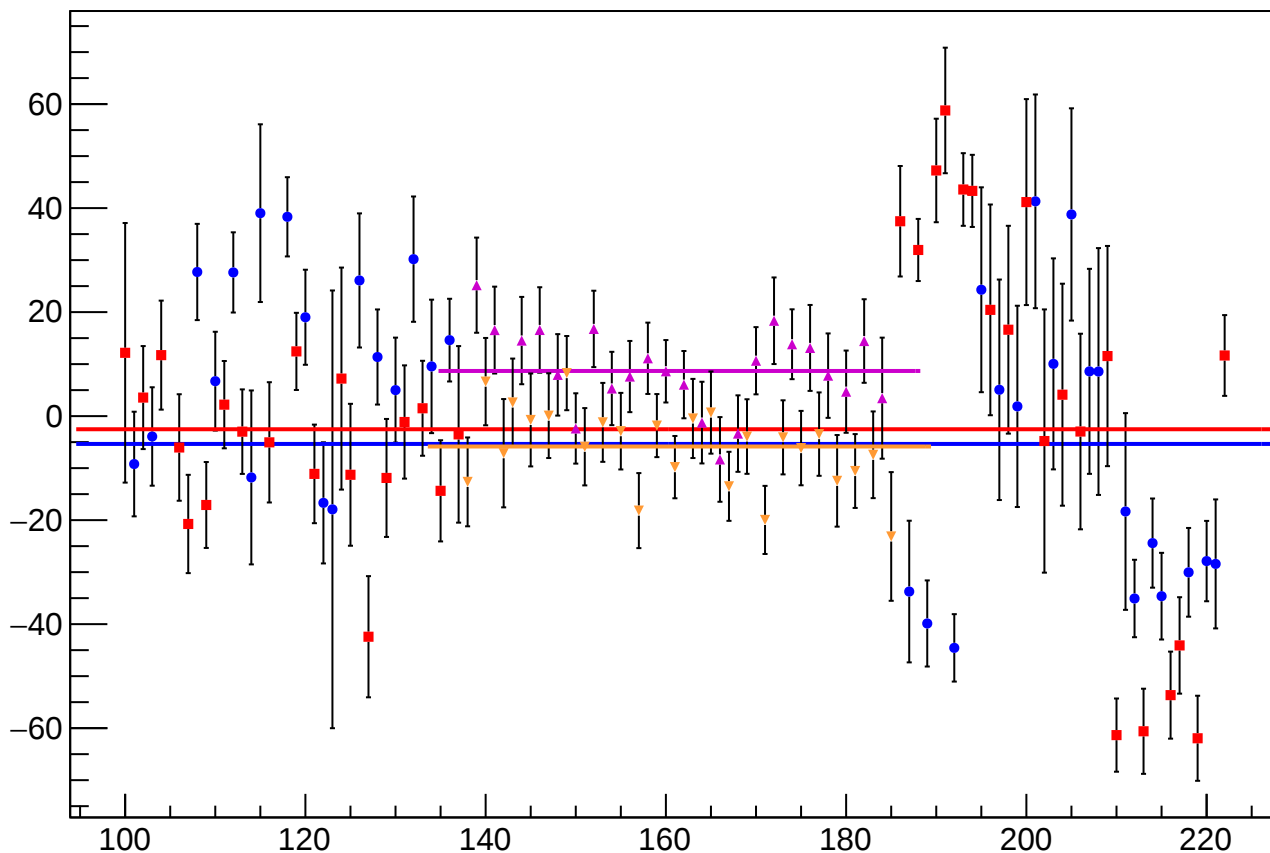
- sign 15.253 $\pm$ 0.284 χ^2 /NDF: 7054.0/60

diff_bpm0l05Y_rms vs Slug



Right In: 1623.158+/-0.264	χ^2/NDF : 1107375.4/34	+ sign 1694.655+/-0.198	χ^2/NDF : 2023754.2/59
Left Out: 1785.179+/-0.297	χ^2/NDF : 750628.1/24	All: 1704.997+/-0.141	χ^2/NDF : 4460055.8/12
Right Out: 1635.764+/-0.262	χ^2/NDF : 1695920.4/37	- sign 1715.700+/-0.201	χ^2/NDF : 2430727.8/60
Left In: 1830.160+/-0.313	χ^2/NDF : 508391.9/22		

diff_bpm0l06X_mean vs Slug



Right In: -5.348 ± 1.796 χ^2/NDF : 233.7/34

Left Out: -5.840 ± 1.518 χ^2/NDF : 23.3/24

Right Out: -2.524 ± 1.615 χ^2/NDF : 456.3/37

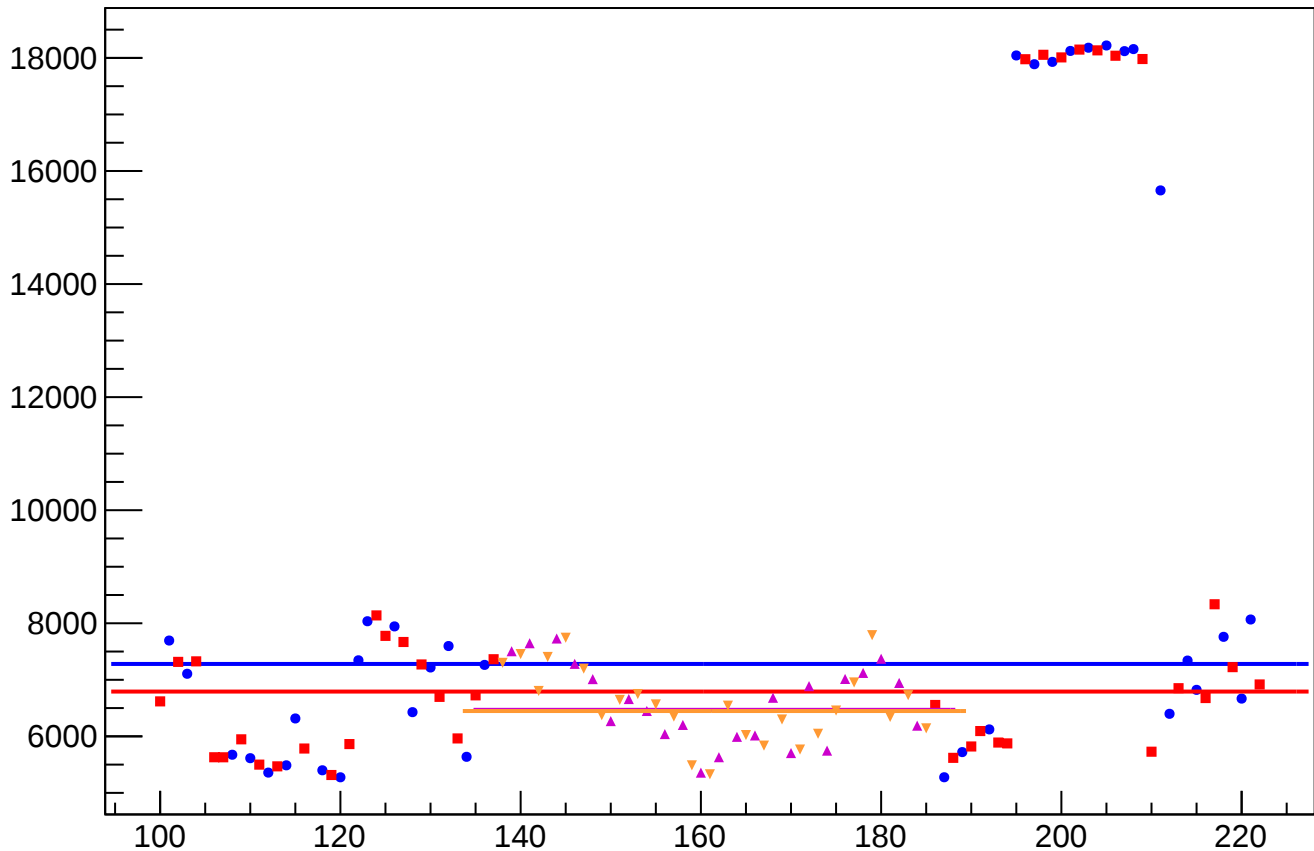
Left In: 8.683 ± 1.571 χ^2/NDF : 21.9/22

+ sign -5.635 ± 1.160 χ^2/NDF : 257.1/59

All: -1.069 ± 0.808 χ^2/NDF : 790.2/120

- sign 3.235 ± 1.126 χ^2/NDF : 503.0/60

diff_bpm0l06X_rms vs Slug



Right In: 7280.470 $\pm$ 1.270 χ^2 /NDF: 5624076.6/34

Left Out: 6447.712 $\pm$ 1.074 χ^2 /NDF: 371671.1/24

Right Out: 6792.015 $\pm$ 1.142 χ^2 /NDF: 4761963.5/37

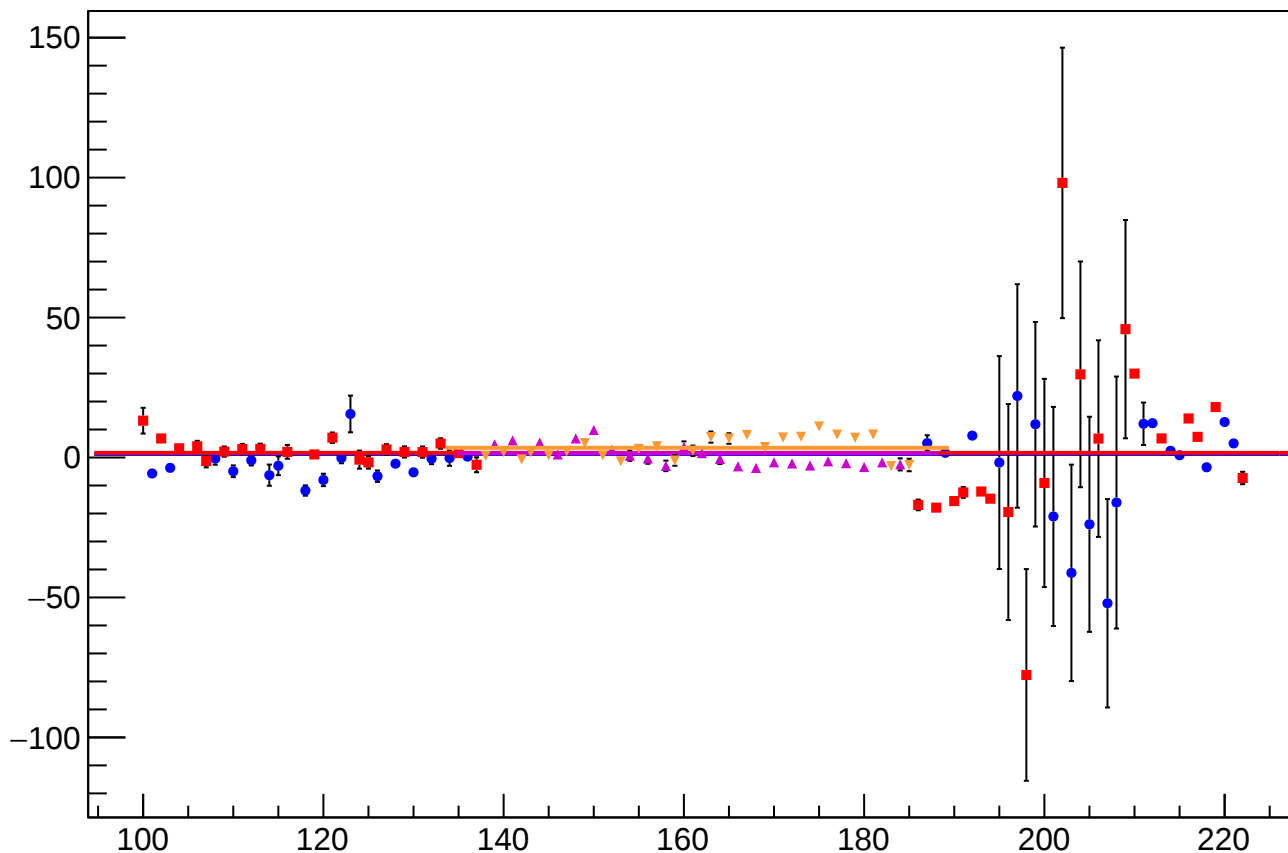
Left In: 6468.902 $\pm$ 1.111 χ^2 /NDF: 383325.4/22

+ sign 6794.766 $\pm$ 0.820 χ^2 /NDF: 6246492.7/59

All: 6707.888 $\pm$ 0.571 χ^2 /NDF: 11454746.7/1

- sign 6625.988 $\pm$ 0.796 χ^2 /NDF: 5186442.2/60

diff_bpm0l06Y_mean vs Slug



Right In: 1.283 ± 0.312 χ^2/NDF : 405.9/34

Left Out: 3.470 ± 0.276 χ^2/NDF : 176.0/24

Right Out: 1.658 ± 0.288 χ^2/NDF : 1834.0/37

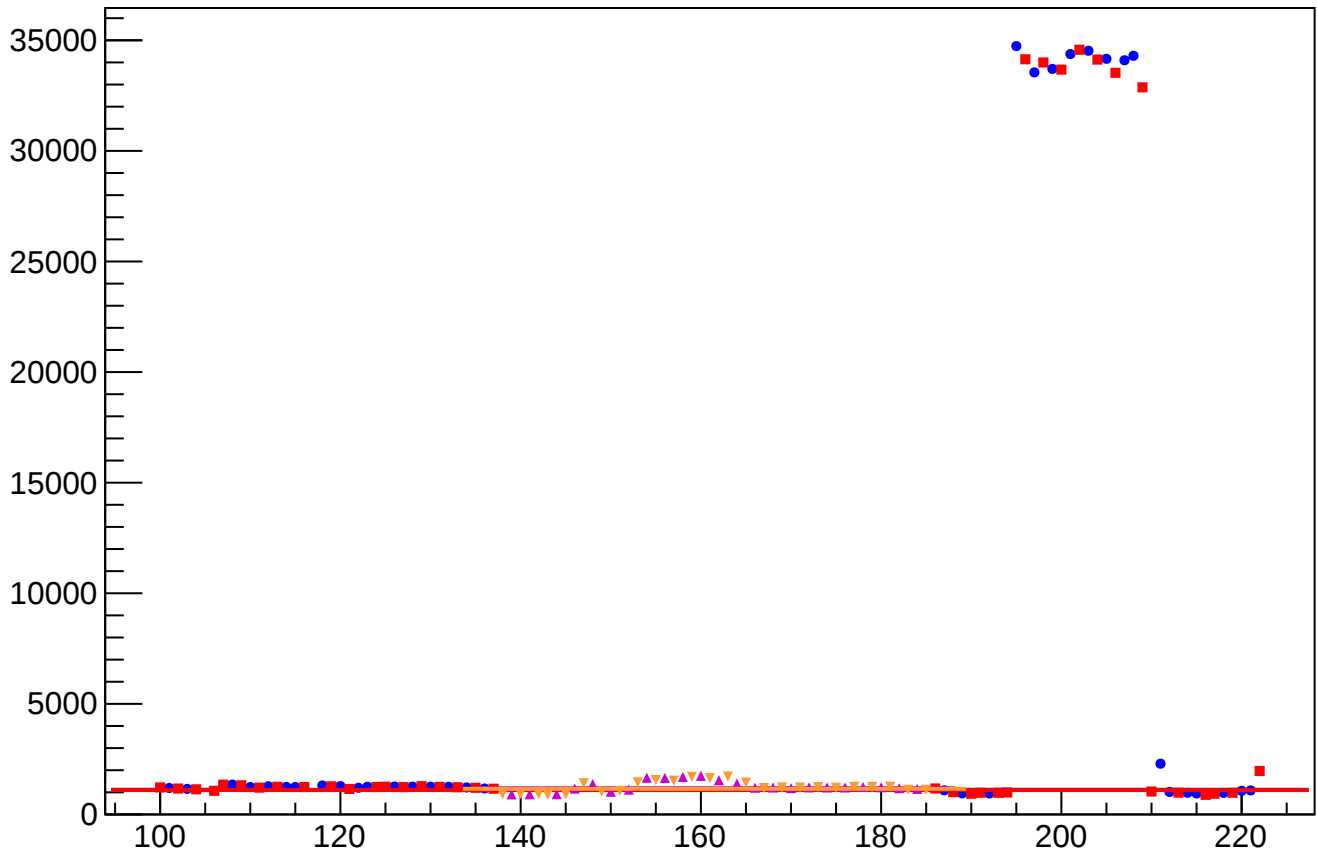
Left In: 1.502 ± 0.291 χ^2/NDF : 202.7/22

+ sign 2.510 ± 0.207 χ^2/NDF : 609.3/59

All: 2.040 ± 0.145 χ^2/NDF : 2656.4/120

- sign 1.581 ± 0.205 χ^2/NDF : 2036.9/60

diff_bpm0l06Y_rms vs Slug



Right In: 1114.470+/-0.221 χ^2/NDF : 11951946.1/34

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

Right Out: 1102.928+/-0.204 χ^2/NDF : 10579731.7/37

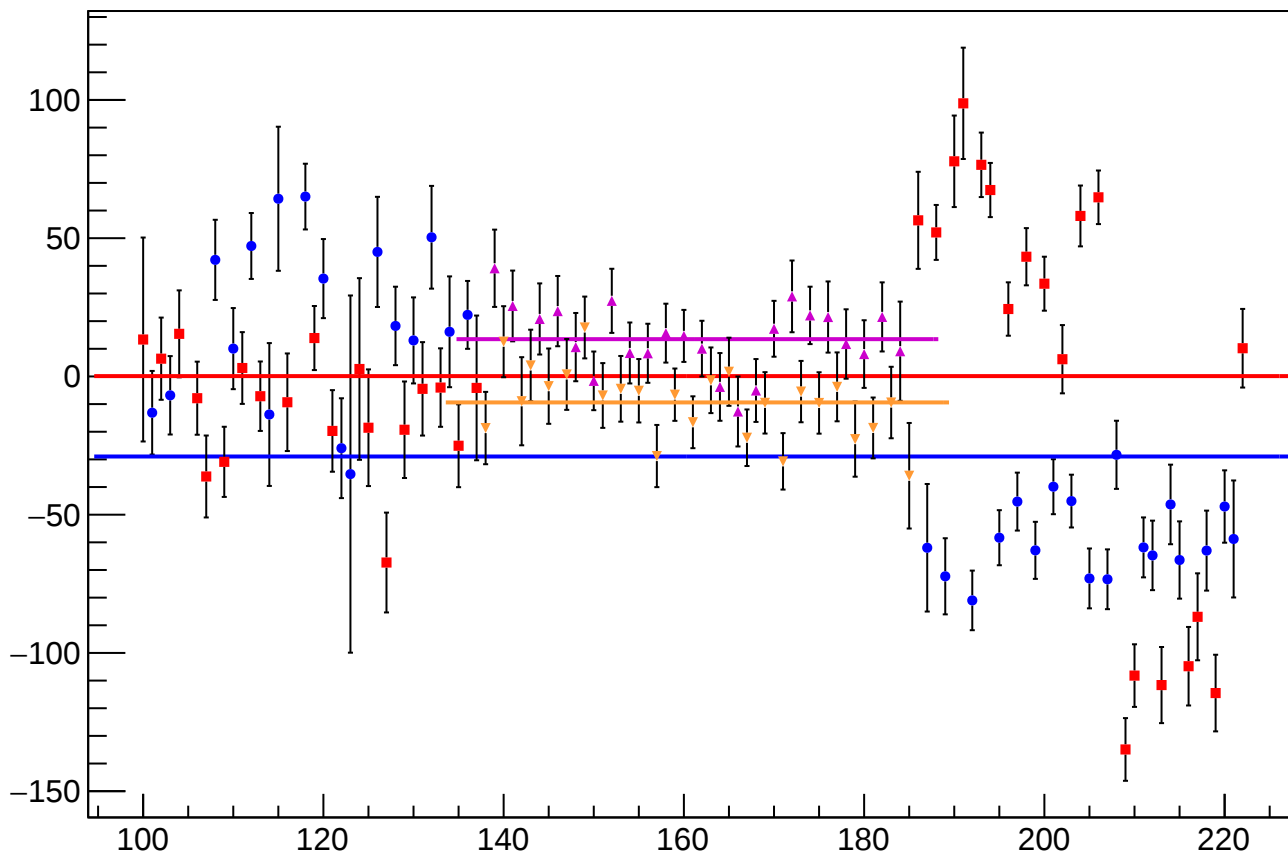
Left In: 1184.966+/-0.206 χ^2/NDF : 1190431.5/22

+ sign 1139.391+/-0.146 χ^2/NDF : 13385055.5/59

All: 1141.494+/-0.103 χ^2/NDF : 25236078.4/100

- sign 1143.546+/-0.145 χ^2/NDF : 11850615.2/60

diff_bpm0l07X_mean vs Slug



Right In: -28.953 ± 2.268 χ^2/NDF : 374.4/34

Left Out: -9.398 ± 2.358 χ^2/NDF : 26.3/24

Right Out: 0.122 ± 2.179 χ^2/NDF : 771.7/37

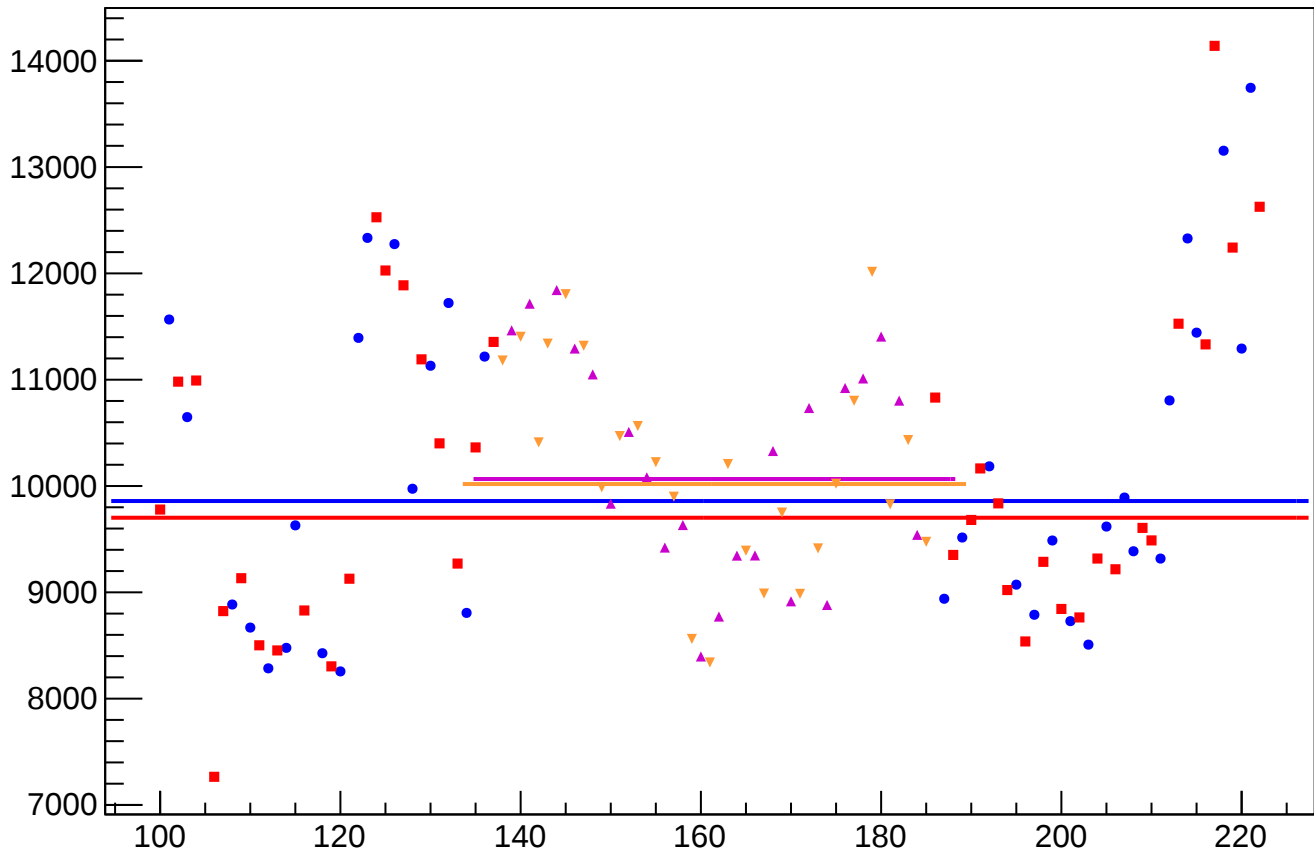
Left In: 13.485 ± 2.443 χ^2/NDF : 21.6/22

+ sign -19.558 ± 1.635 χ^2/NDF : 436.4/59

All: -6.690 ± 1.153 χ^2/NDF : 1369.6/120

- sign 6.044 ± 1.626 χ^2/NDF : 809.9/60

diff_bpm0l07X_rms vs Slug



Right In: 9858.772 $\pm$ 1.604 χ^2 /NDF: 667371.7/34

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

Right Out: 9701.707 $\pm$ 1.541 χ^2 /NDF: 743407.0/37

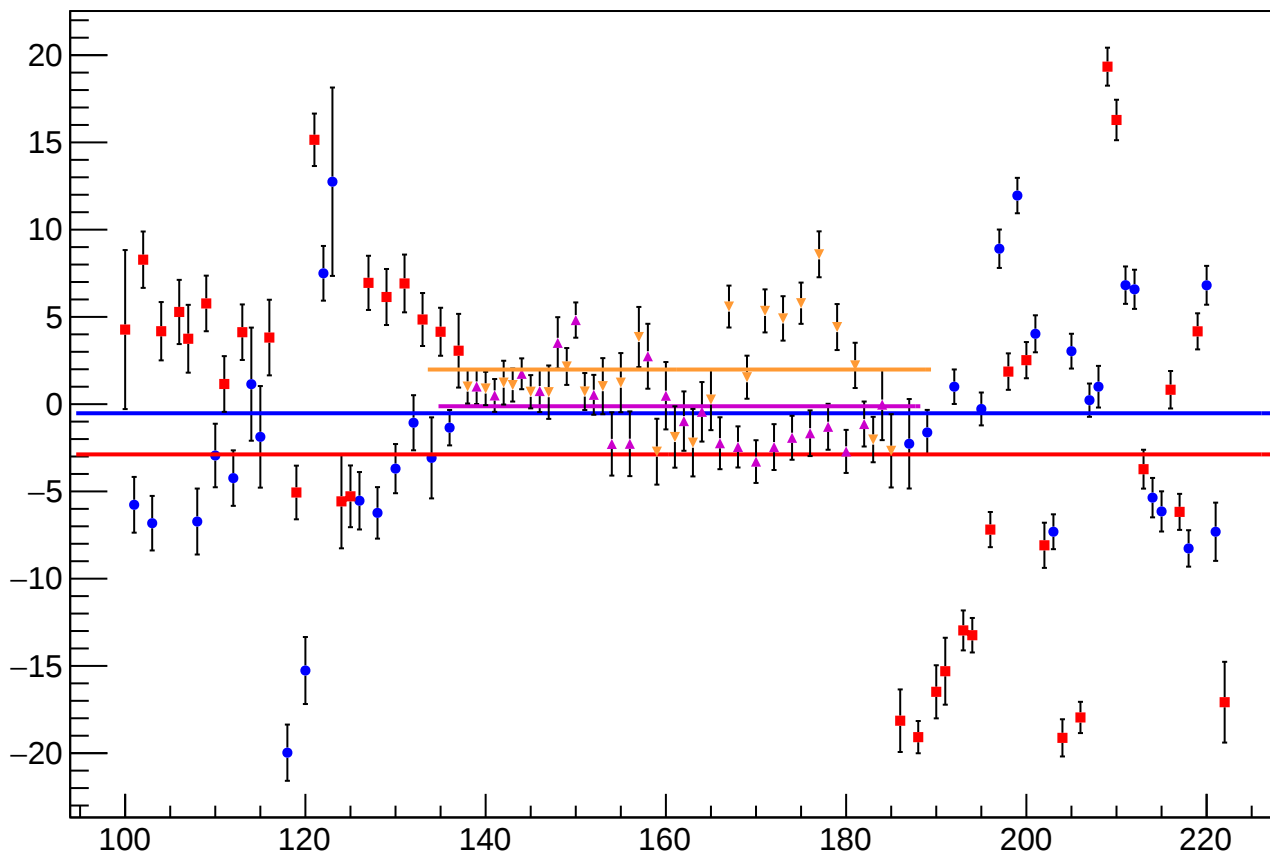
Left In: 10065.909 $\pm$ 1.727 χ^2 /NDF:357868.9/22

+ sign 9935.539 $\pm$ 1.156 χ^2 /NDF: 1016676.4/59

All: 9899.136 $\pm$ 0.815 χ^2 /NDF: 2144679.8/12

- sign 9863.112 $\pm$ 1.150 χ^2 /NDF: 1126030.2/60

diff_bpm0l07Y_mean vs Slug



Right In: -0.522 ± 0.220 $\chi^2/\text{NDF}: 865.9/34$

Left Out: 1.985 ± 0.255 $\chi^2/\text{NDF}: 101.2/24$

Right Out: -2.879 ± 0.217 $\chi^2/\text{NDF}: 2563.5/37$

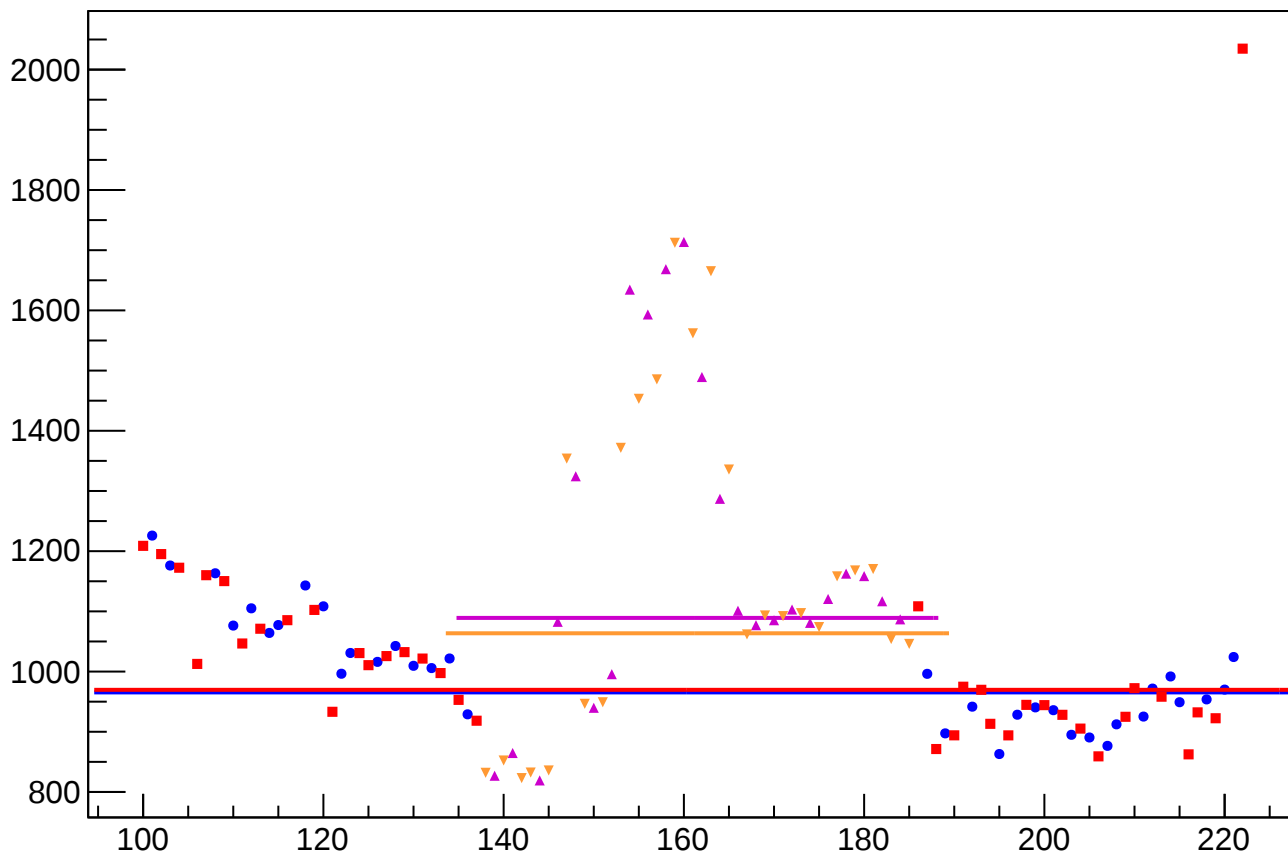
Left In: -0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

+ sign 0.549 ± 0.167 $\chi^2/\text{NDF}: 1022.5/59$

All: -0.605 ± 0.119 $\chi^2/\text{NDF}: 3814.8/120$

- sign -1.791 ± 0.169 $\chi^2/\text{NDF}: 2694.9/60$

diff_bpm0l07Y_rms vs Slug



Right In: 965.389 $\pm$ 0.156 χ^2 /NDF: 275339.4/34

Left Out: 1063.600 $\pm$ 0.180 χ^2 /NDF:1617376.3/24

Right Out: 969.671 $\pm$ 0.153 χ^2 /NDF: 720030.5/37

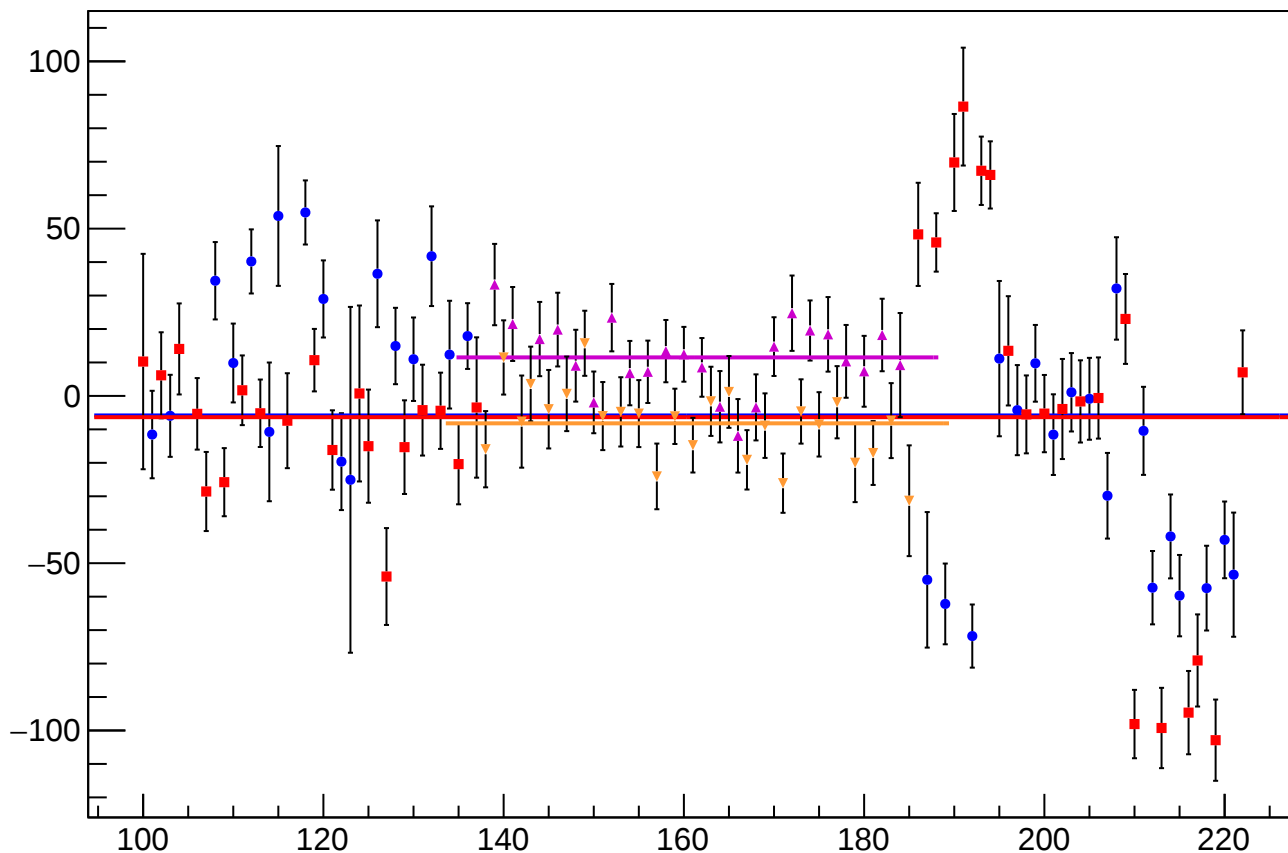
Left In: 1089.154 $\pm$ 0.190 χ^2 /NDF:1430478.5/22

+ sign 1007.328 $\pm$ 0.118 χ^2 /NDF: 2062951.2/59

All: 1011.998 $\pm$ 0.084 χ^2 /NDF: 4456160.3/12

- sign 1016.794 $\pm$ 0.119 χ^2 /NDF: 2390019.8/60

diff_bpm0l08X_mean vs Slug



Right In: -5.838 ± 2.163 $\chi^2/\text{NDF}: 298.2/34$

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

Right Out: -6.358 ± 2.016 $\chi^2/\text{NDF}: 525.6/37$

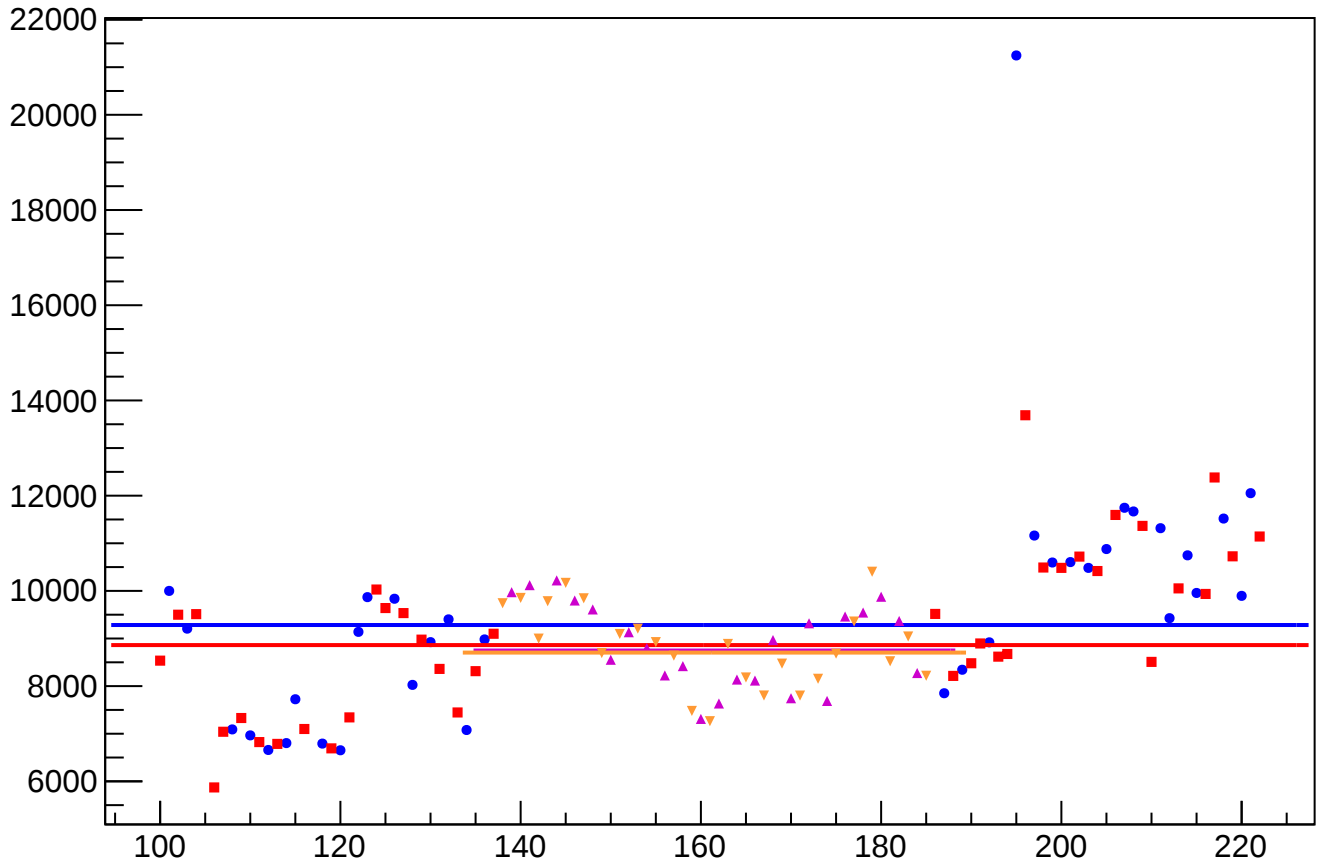
Left In: 11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

+ sign -7.081 ± 1.488 $\chi^2/\text{NDF}: 325.0/59$

All: -2.399 ± 1.043 $\chi^2/\text{NDF}: 928.4/120$

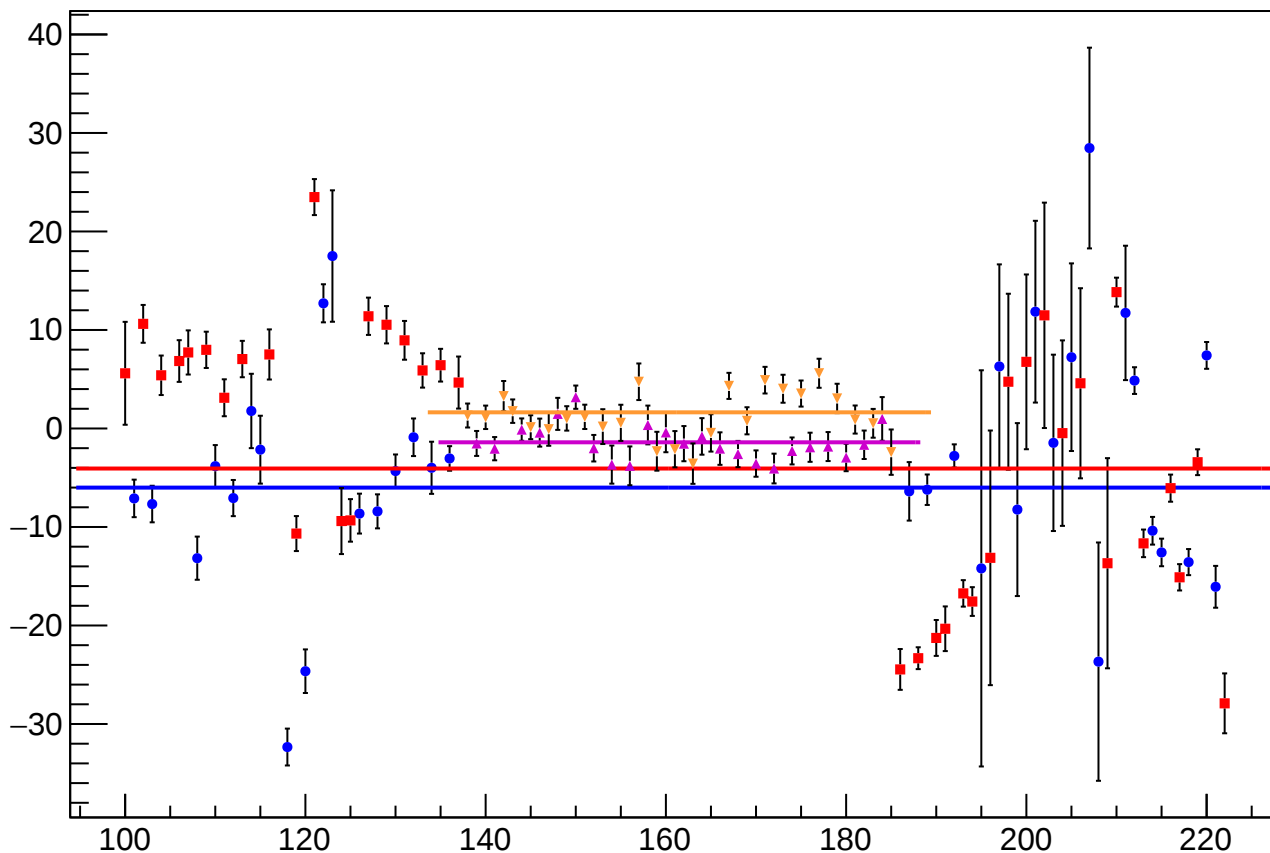
- sign 2.122 ± 1.462 $\chi^2/\text{NDF}: 584.0/60$

diff_bpm0l08X_rms vs Slug



Right In: 9283.314+/-1.530	χ^2/NDF : 1670119.9/34	+ sign 8977.993+/-1.052	χ^2/NDF : 2078045.0/59
Left Out: 8704.193+/-1.449	χ^2/NDF : 332364.3/24	All: 8891.268+/-0.737	χ^2/NDF : 3869731.0/12
Right Out: 8861.757+/-1.426	χ^2/NDF : 1428160.9/37	- sign 8807.509+/-1.034	χ^2/NDF : 1778322.2/60
Left In: 8747.415+/-1.501	χ^2/NDF : 347110.4/22		

diff_bpm0l08Y_mean vs Slug



Right In: -6.003 ± 0.344 $\chi^2/\text{NDF}: 695.4/34$

Left Out: 1.639 ± 0.294 $\chi^2/\text{NDF}: 51.3/24$

Right Out: -4.066 ± 0.317 $\chi^2/\text{NDF}: 1785.6/37$

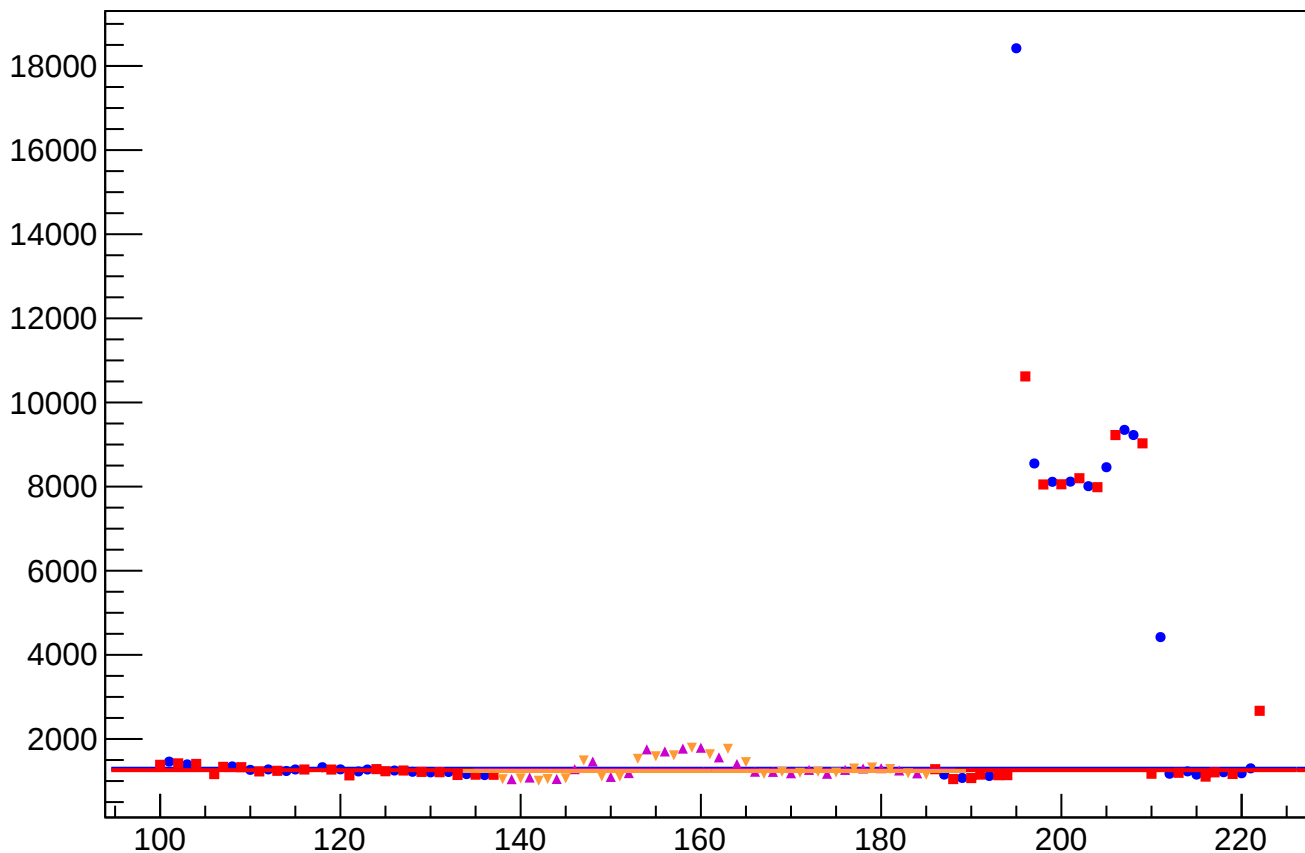
Left In: -1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

+ sign -1.583 ± 0.223 $\chi^2/\text{NDF}: 1032.4/59$

All: -2.148 ± 0.157 $\chi^2/\text{NDF}: 2900.9/120$

- sign -2.702 ± 0.221 $\chi^2/\text{NDF}: 1855.9/60$

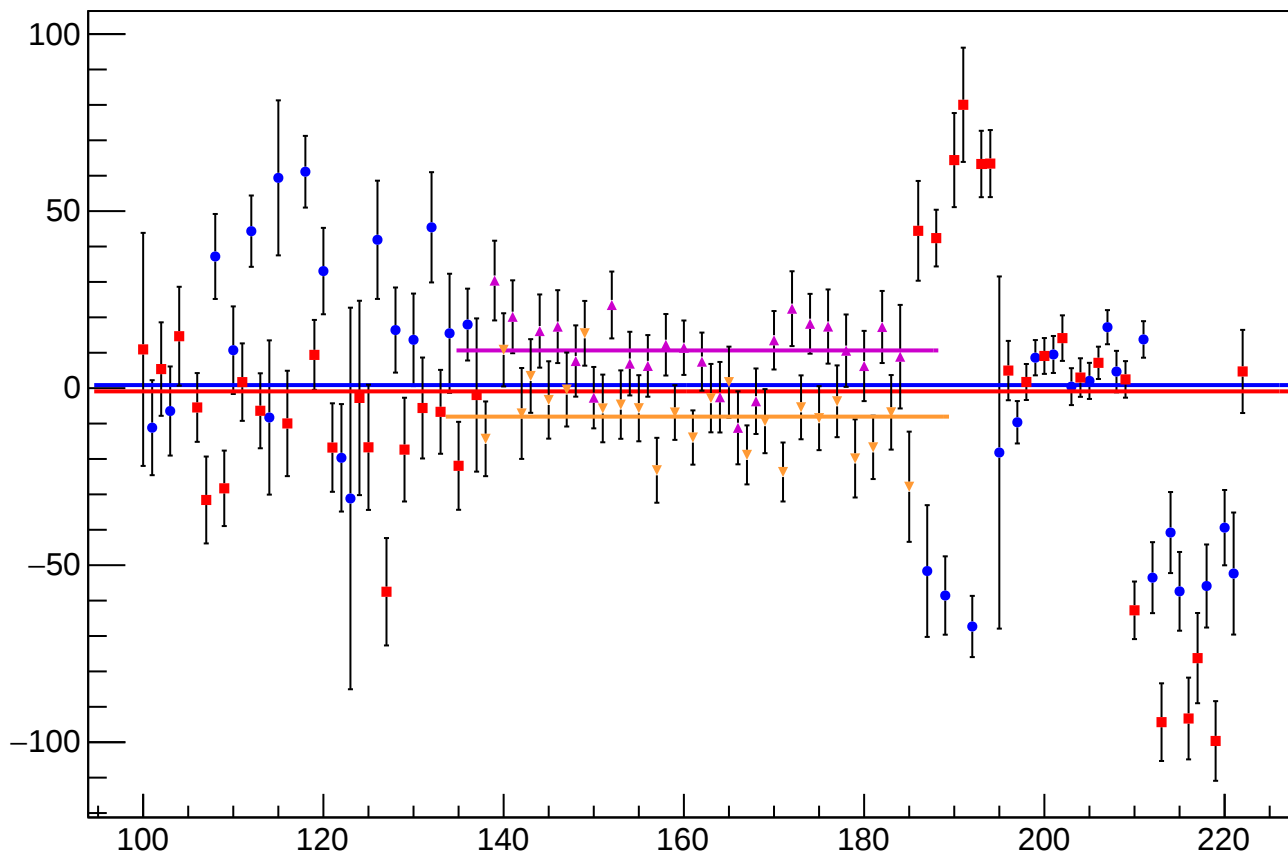
diff_bpm0l08Y_rms vs Slug



Right In: 1292.666 $\pm$ 0.243 χ^2 /NDF: 9744950.3/34
 Left Out: 1238.437 $\pm$ 0.208 χ^2 /NDF: 965173.0/24
 Right Out: 1258.654 $\pm$ 0.224 χ^2 /NDF: 8236132.0/37
 Left In: 1265.673 $\pm$ 0.218 χ^2 /NDF: 845157.0/22

+ sign 1261.302 $\pm$ 0.158 χ^2 /NDF: 10738890.5/59
 All: 1261.781 $\pm$ 0.111 χ^2 /NDF: 19820700.8/1
 - sign 1262.252 $\pm$ 0.156 χ^2 /NDF: 9081792.1/60

diff_bpm0l09X_mean vs Slug



Right In: 0.866 ± 1.484 χ^2/NDF : 344.9/34

Left Out: -8.042 ± 1.918 χ^2/NDF : 26.3/24

Right Out: -0.910 ± 1.490 χ^2/NDF : 540.1/37

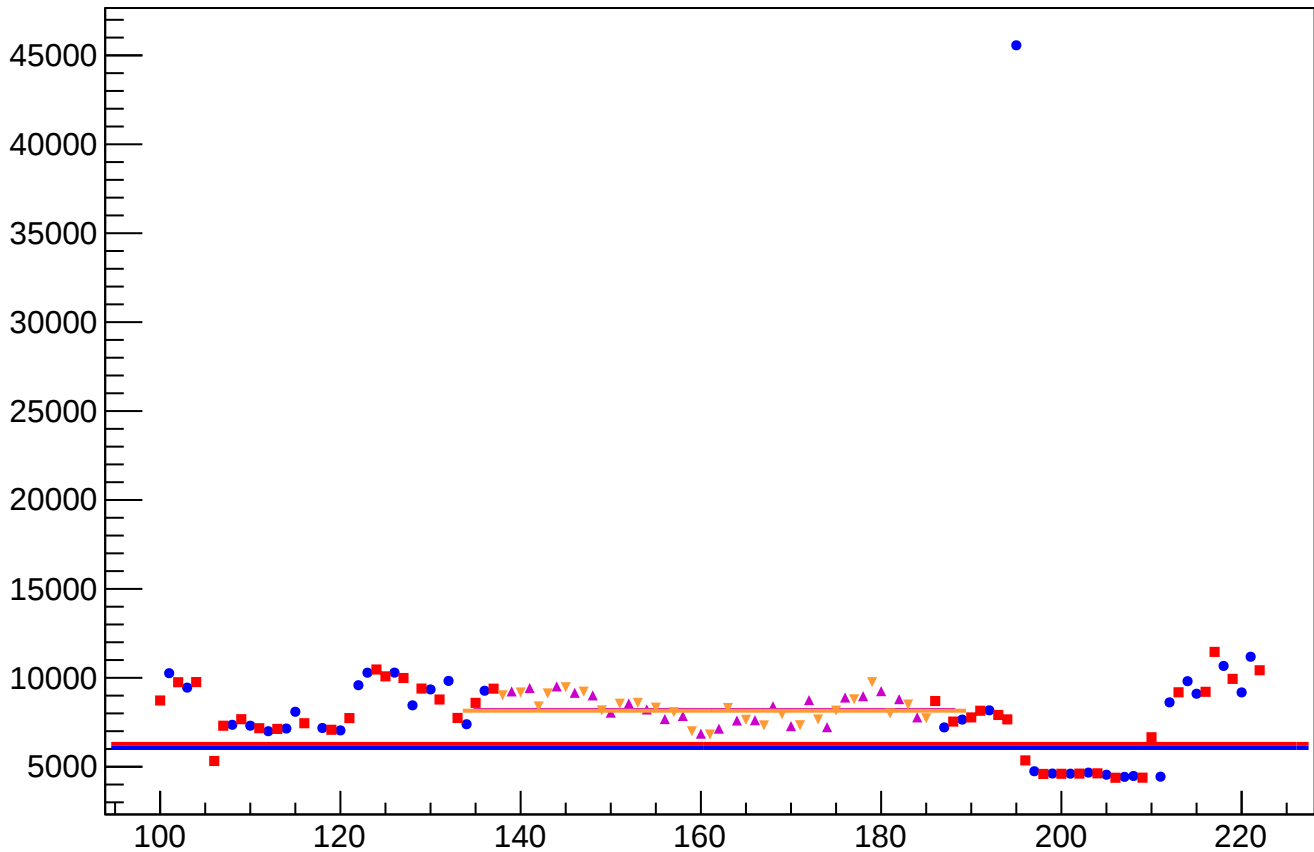
Left In: 10.653 ± 1.988 χ^2/NDF : 21.4/22

+ sign -2.469 ± 1.174 χ^2/NDF : 384.7/59

All: 0.346 ± 0.836 χ^2/NDF : 979.6/120

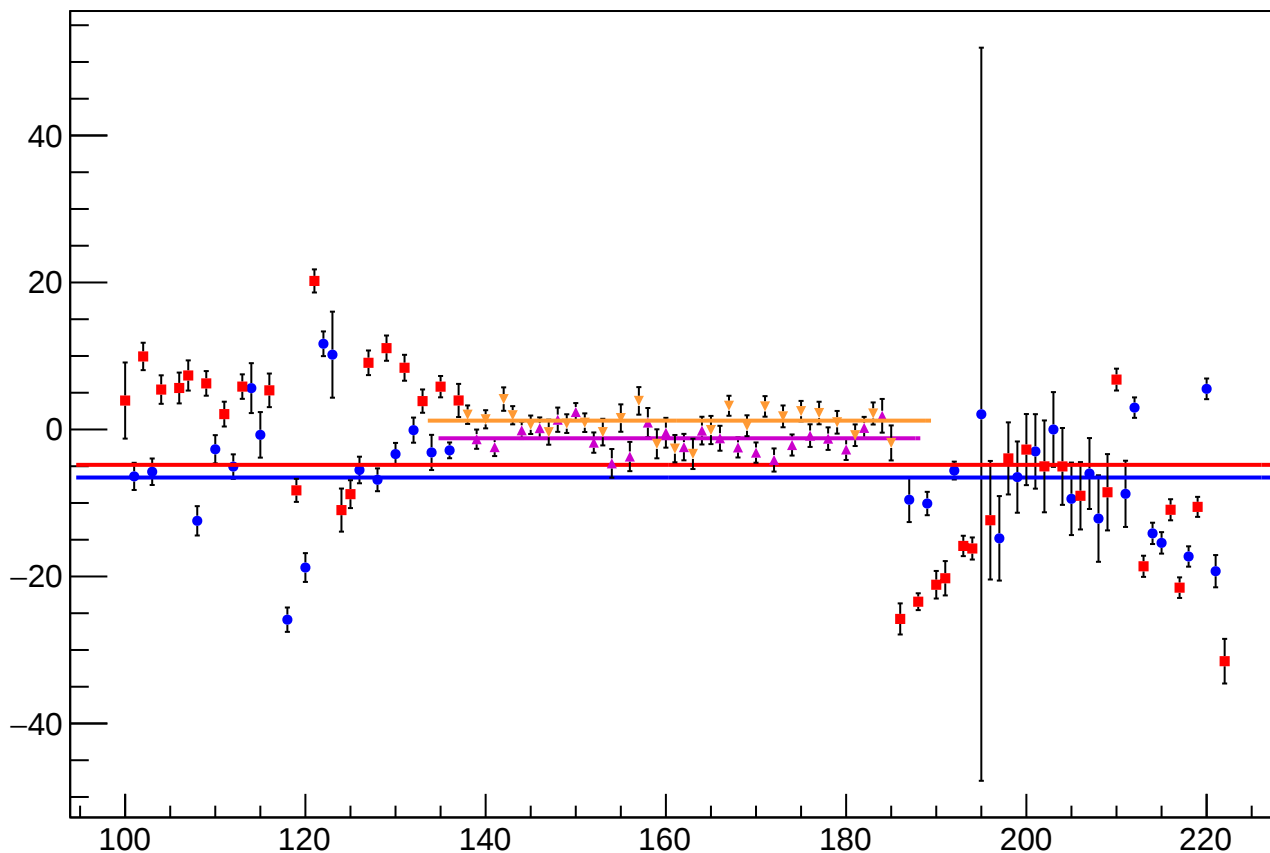
- sign 3.249 ± 1.192 χ^2/NDF : 583.2/60

diff_bpm0l09X_rms vs Slug



Right In: 6056.327 ± 1.049 $\chi^2/\text{NDF}: 5135783.6/34$ + sign 6840.694 ± 0.830 $\chi^2/\text{NDF}: 6950436.7/59$
 Left Out: 8151.489 ± 1.356 $\chi^2/\text{NDF}: 321803.3/24$ All: 6905.043 ± 0.591 $\chi^2/\text{NDF}: 12178126.5/1$
 Right Out: 6284.949 ± 1.053 $\chi^2/\text{NDF}: 3696046.3/37$ - sign 6971.418 ± 0.843 $\chi^2/\text{NDF}: 5215475.7/60$
 Left In: 8193.636 ± 1.405 $\chi^2/\text{NDF}: 338377.6/22$

diff_bpm0l09Y_mean vs Slug



Right In: -6.536 ± 0.326 $\chi^2/\text{NDF}: 654.8/34$

Left Out: 1.203 ± 0.302 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -4.812 ± 0.304 $\chi^2/\text{NDF}: 1863.4/37$

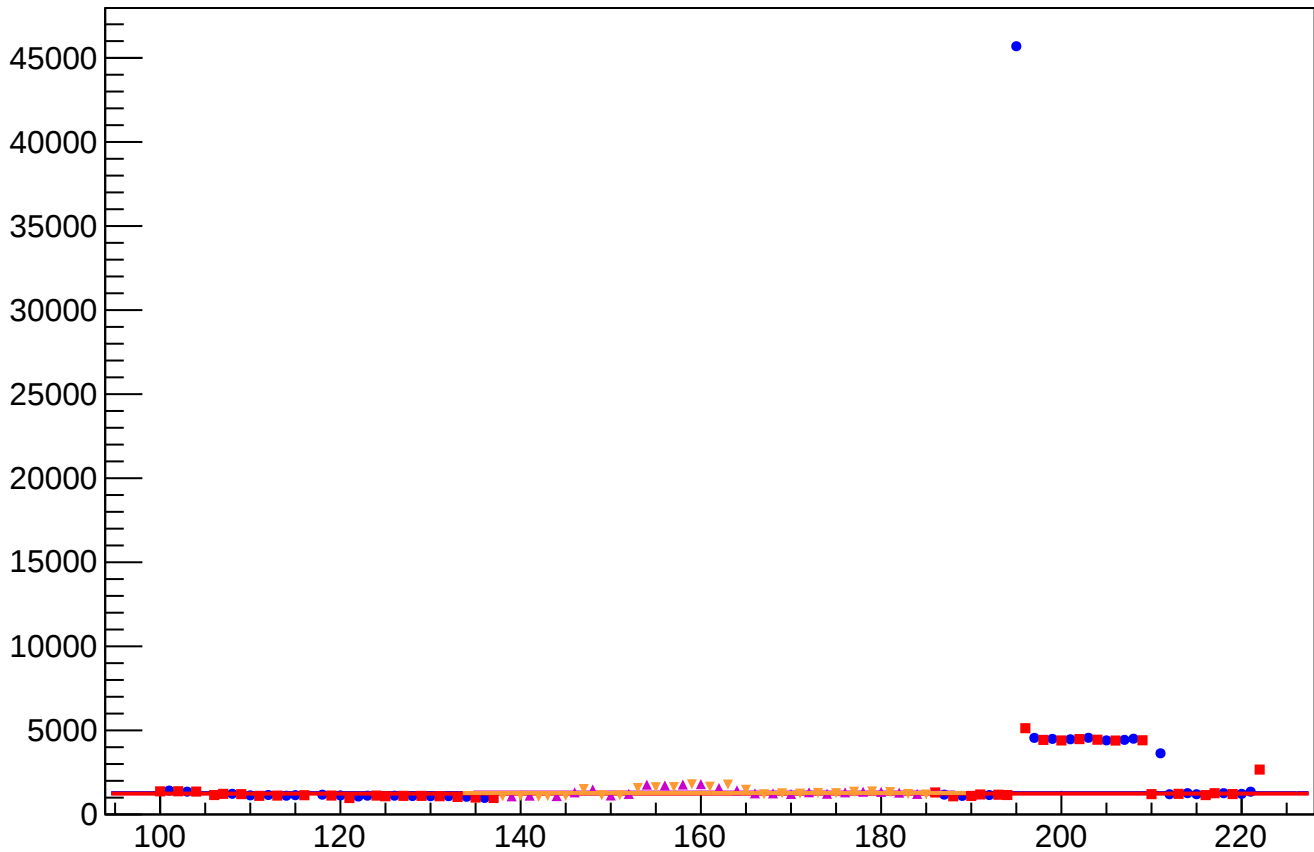
Left In: -1.198 ± 0.318 $\chi^2/\text{NDF}: 31.2/22$

+ sign -2.378 ± 0.222 $\chi^2/\text{NDF}: 987.7/59$

All: -2.737 ± 0.156 $\chi^2/\text{NDF}: 2955.1/120$

- sign -3.089 ± 0.220 $\chi^2/\text{NDF}: 1962.1/60$

diff_bpm0l09Y_rms vs Slug



Right In: 1271.545 $\pm$ 0.230 χ^2/NDF : 7982638.9/34

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

Right Out: 1239.858 $\pm$ 0.215 χ^2/NDF : 5955899.4/37

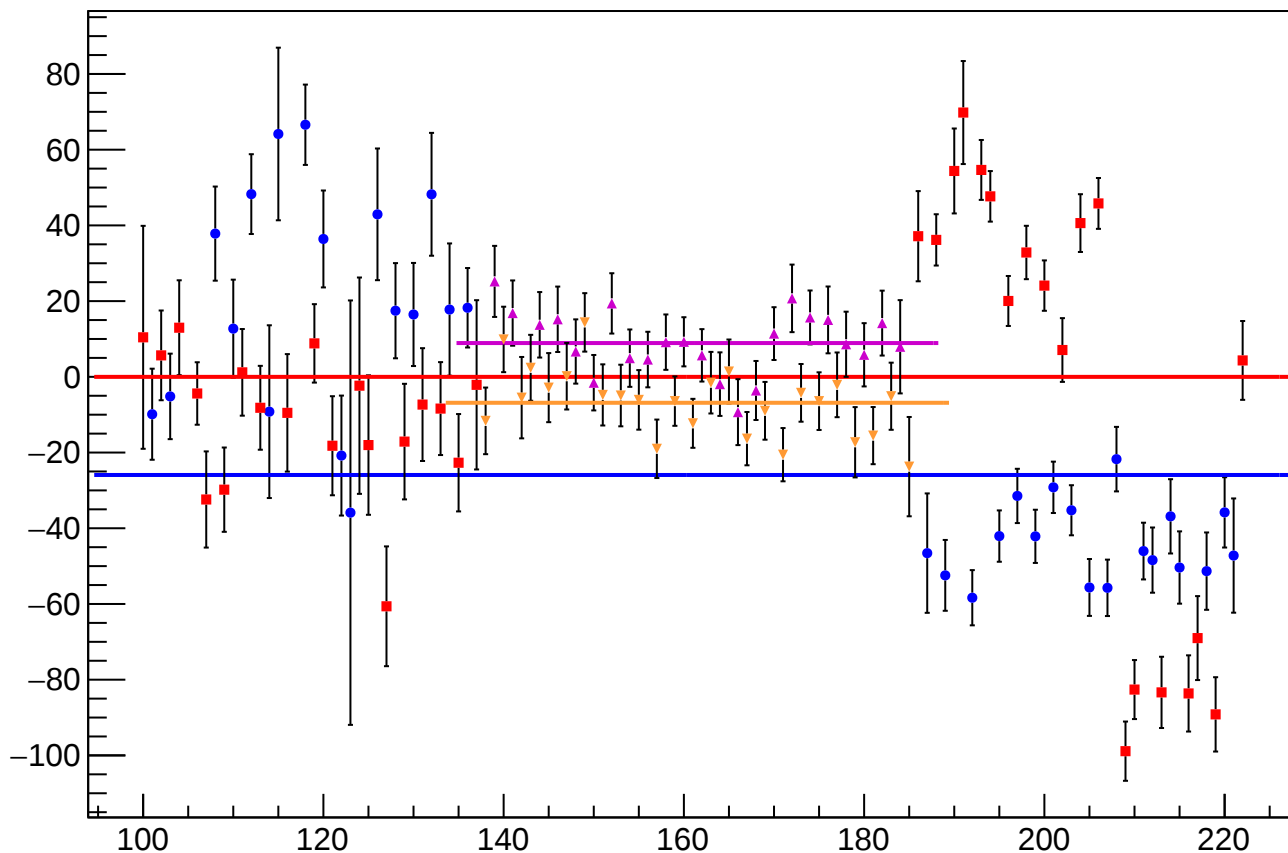
Left In: 1305.541 $\pm$ 0.225 χ^2/NDF : 760450.8/22

+ sign 1274.968 $\pm$ 0.157 χ^2/NDF : 8861177.5/59

All: 1273.050 $\pm$ 0.110 χ^2/NDF : 15622435.9/100

- sign 1271.167 $\pm$ 0.155 χ^2/NDF : 6760961.7/60

diff_bpm0l10X_mean vs Slug



Right In: -25.925 ± 1.670 χ^2/NDF : 394.4/34

Left Out: -6.854 ± 1.616 χ^2/NDF : 28.7/24

Right Out: -0.008 ± 1.598 χ^2/NDF : 886.9/37

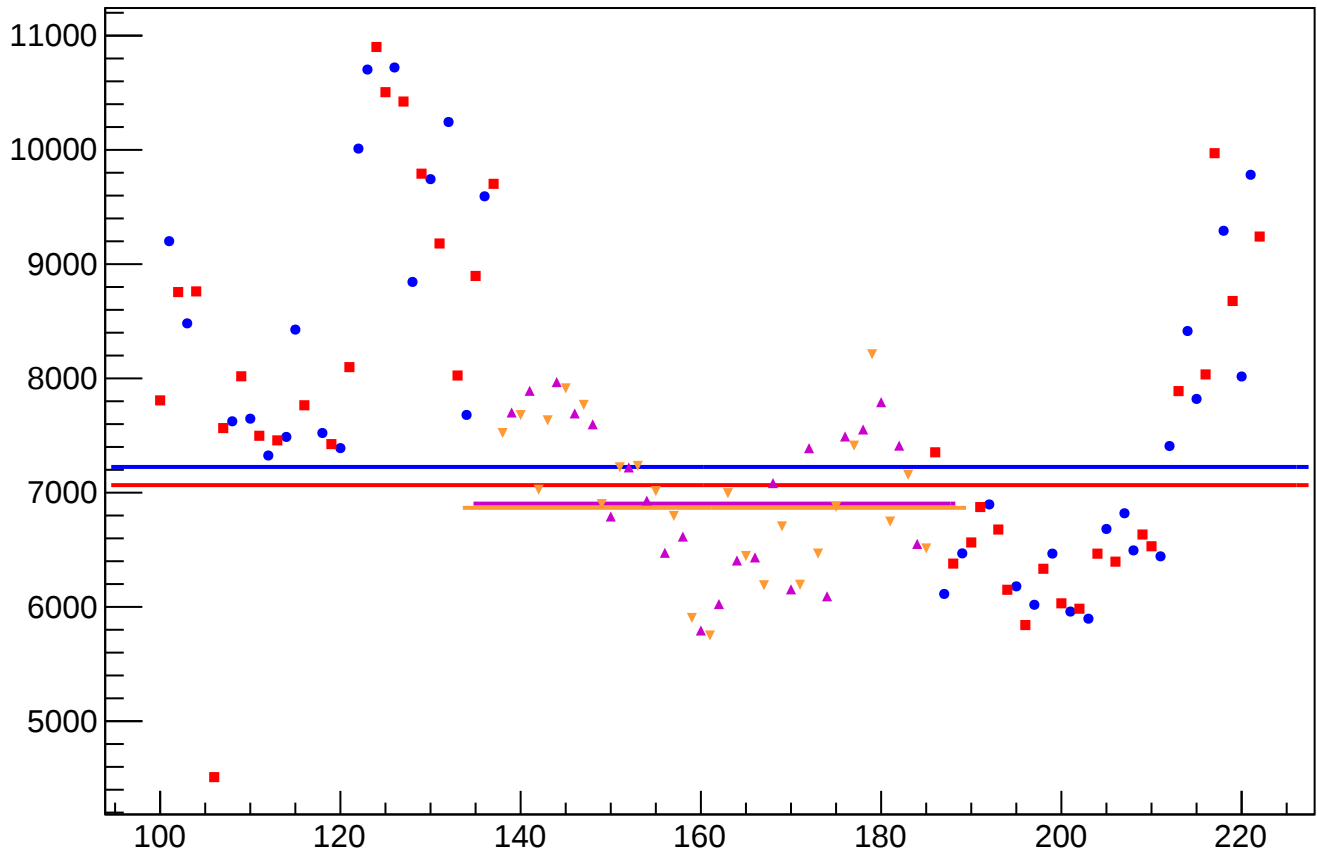
Left In: 8.923 ± 1.674 χ^2/NDF : 21.8/22

+ sign -16.073 ± 1.161 χ^2/NDF : 490.4/59

All: -5.866 ± 0.819 χ^2/NDF : 1567.9/120

- sign 4.249 ± 1.156 χ^2/NDF : 923.6/60

diff_bpm0l10X_rms vs Slug



Right In: 7225.045+/-1.181 χ^2 /NDF: 1064834.5/34

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

Right Out: 7065.922+/-1.130 χ^2 /NDF: 1293316.0/37

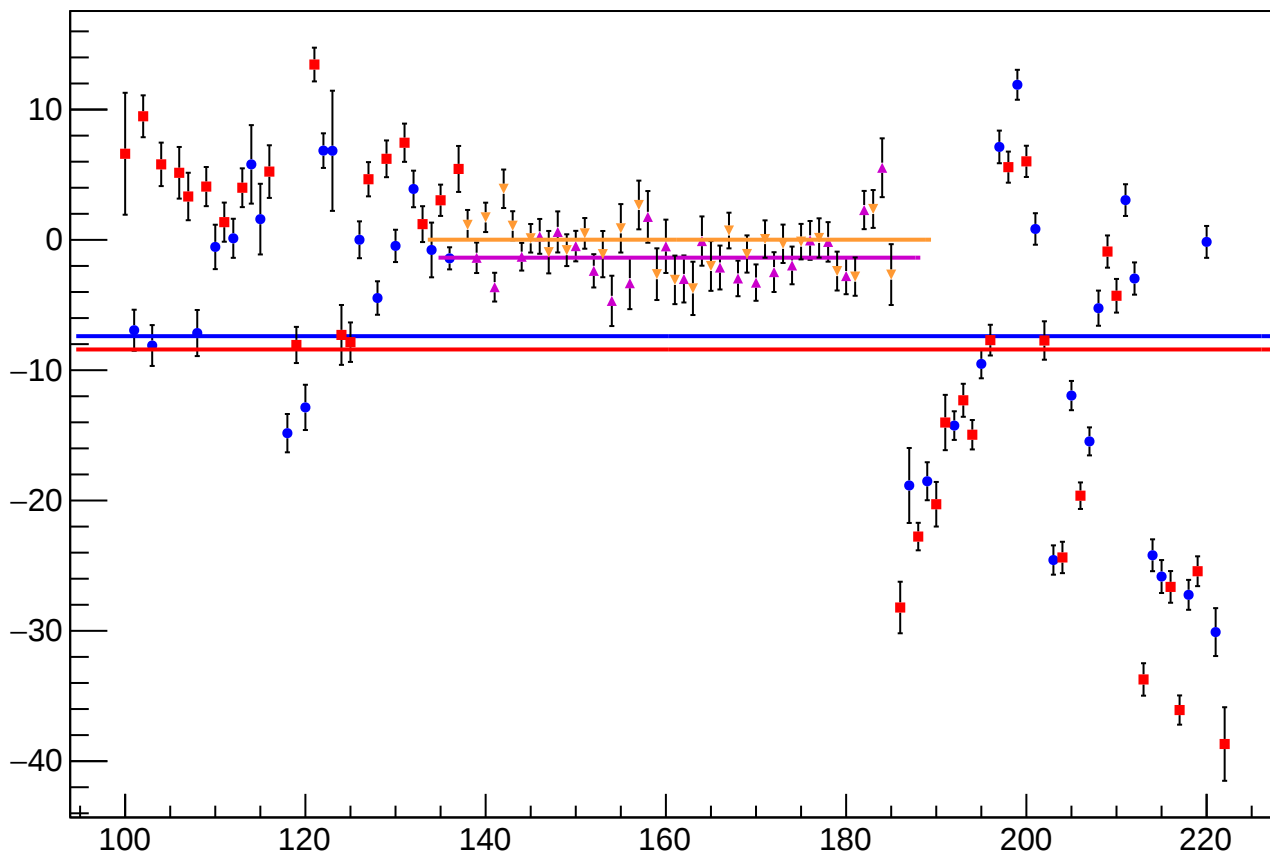
Left In: 6904.117+/-1.184 χ^2 /NDF:325912.6/22

+ sign 7040.271+/-0.821 χ^2 /NDF: 1419118.7/59

All: 7014.420+/-0.579 χ^2 /NDF: 3050096.7/12

- sign 6988.802+/-0.817 χ^2 /NDF: 1629004.3/60

diff_bpm0l10Y_mean vs Slug



Right In: -7.389 ± 0.229 χ^2/NDF : 2282.6/34

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

Right Out: -8.410 ± 0.227 χ^2/NDF : 3925.8/37

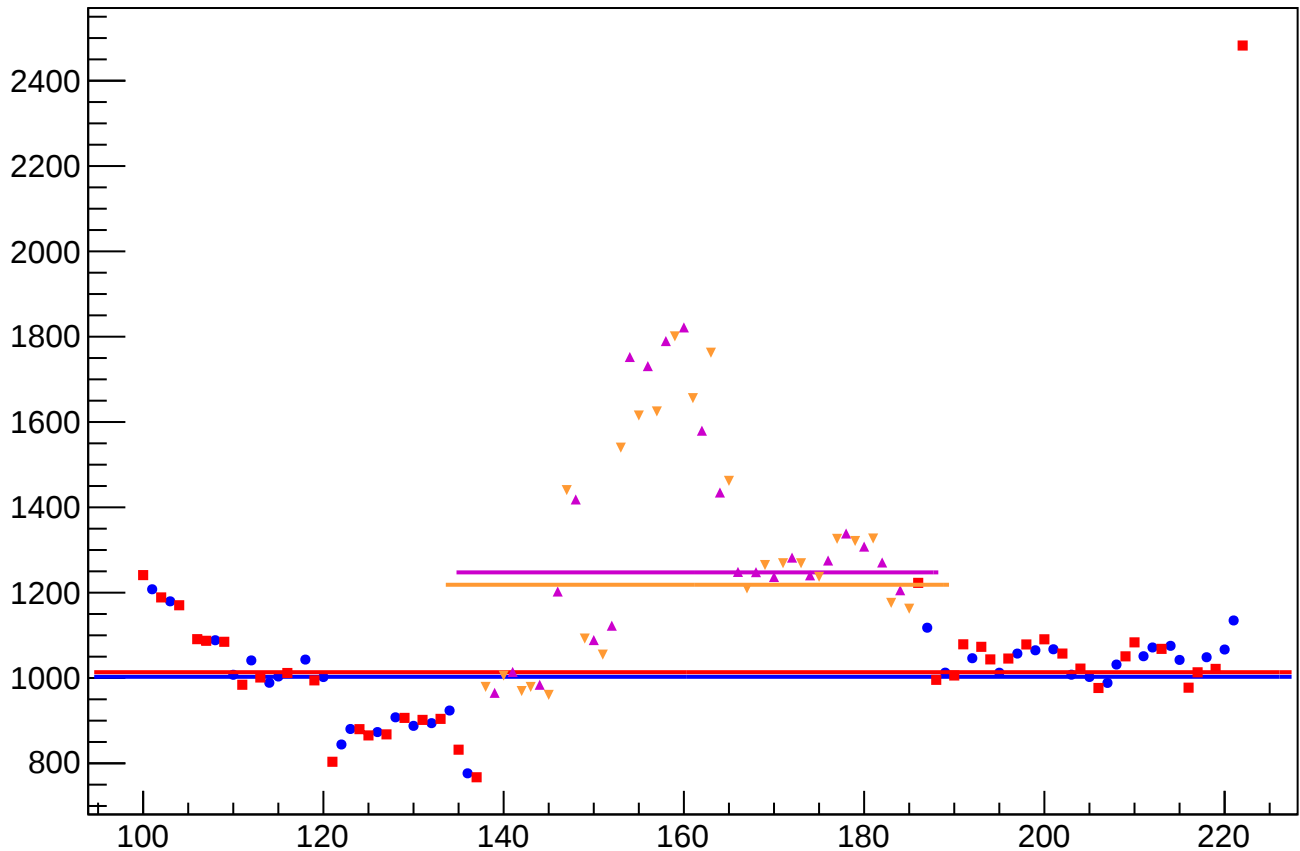
Left In: -1.365 ± 0.306 χ^2/NDF : 38.5/22

+ sign -4.549 ± 0.180 χ^2/NDF : 2719.4/59

All: -5.215 ± 0.128 χ^2/NDF : 7054.1/120

- sign -5.902 ± 0.182 χ^2/NDF : 4306.7/60

diff_bpm0l10Y_rms vs Slug



Right In: 1002.790 $\pm$ 0.162 χ^2 /NDF: 359661.1/34

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 1013.607 $\pm$ 0.161 χ^2 /NDF: 887944.2/37

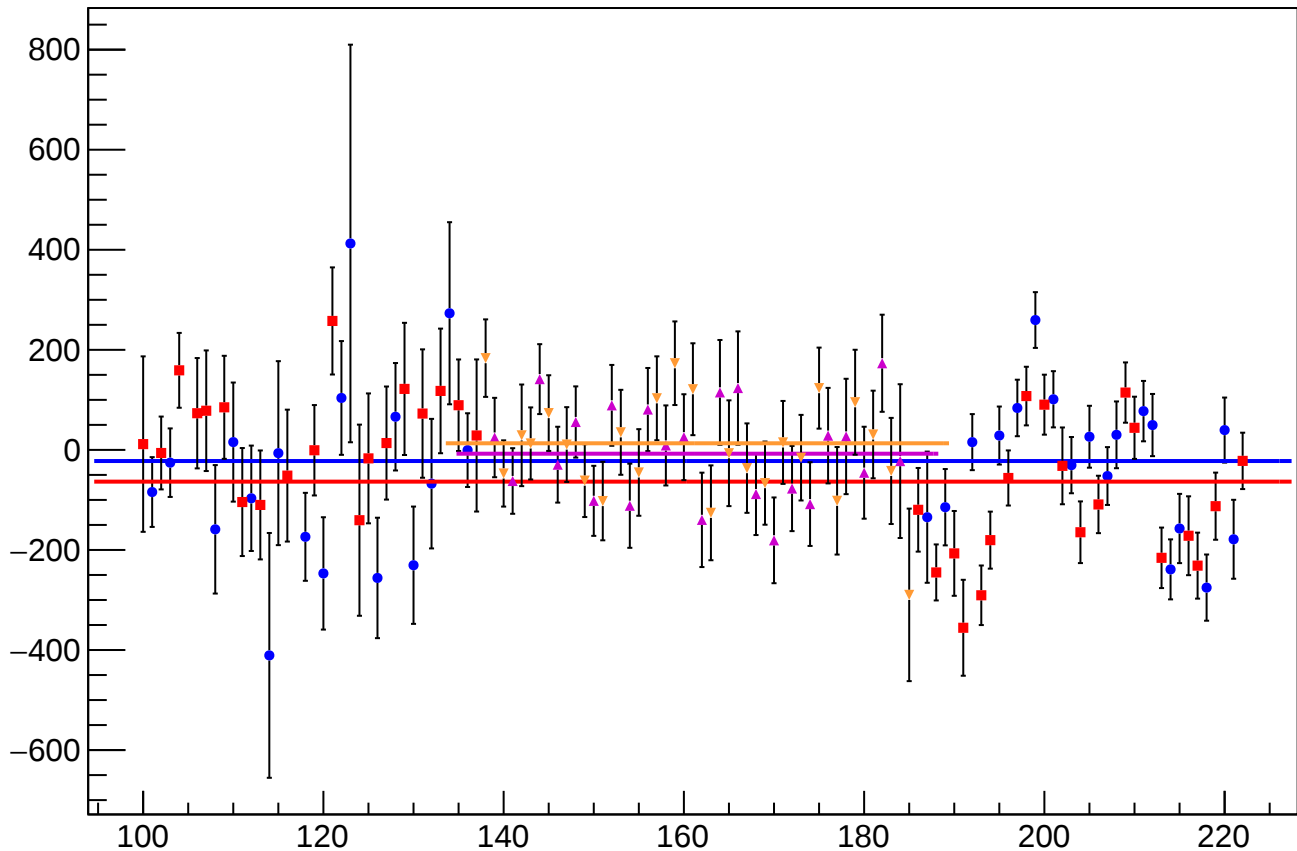
Left In: 1247.538 $\pm$ 0.216 χ^2 /NDF:1073390.3/22

+ sign 1085.549 $\pm$ 0.127 χ^2 /NDF: 2308238.5/59

All: 1091.134 $\pm$ 0.090 χ^2 /NDF: 5028700.1/12

- sign 1096.890 $\pm$ 0.129 χ^2 /NDF: 2716532.4/60

diff_bpm0r03X_mean vs Slug



Right In: -22.250 ± 12.880 χ^2/NDF : 104.1/34

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

Right Out: -63.436 ± 12.634 χ^2/NDF : 121.6/37

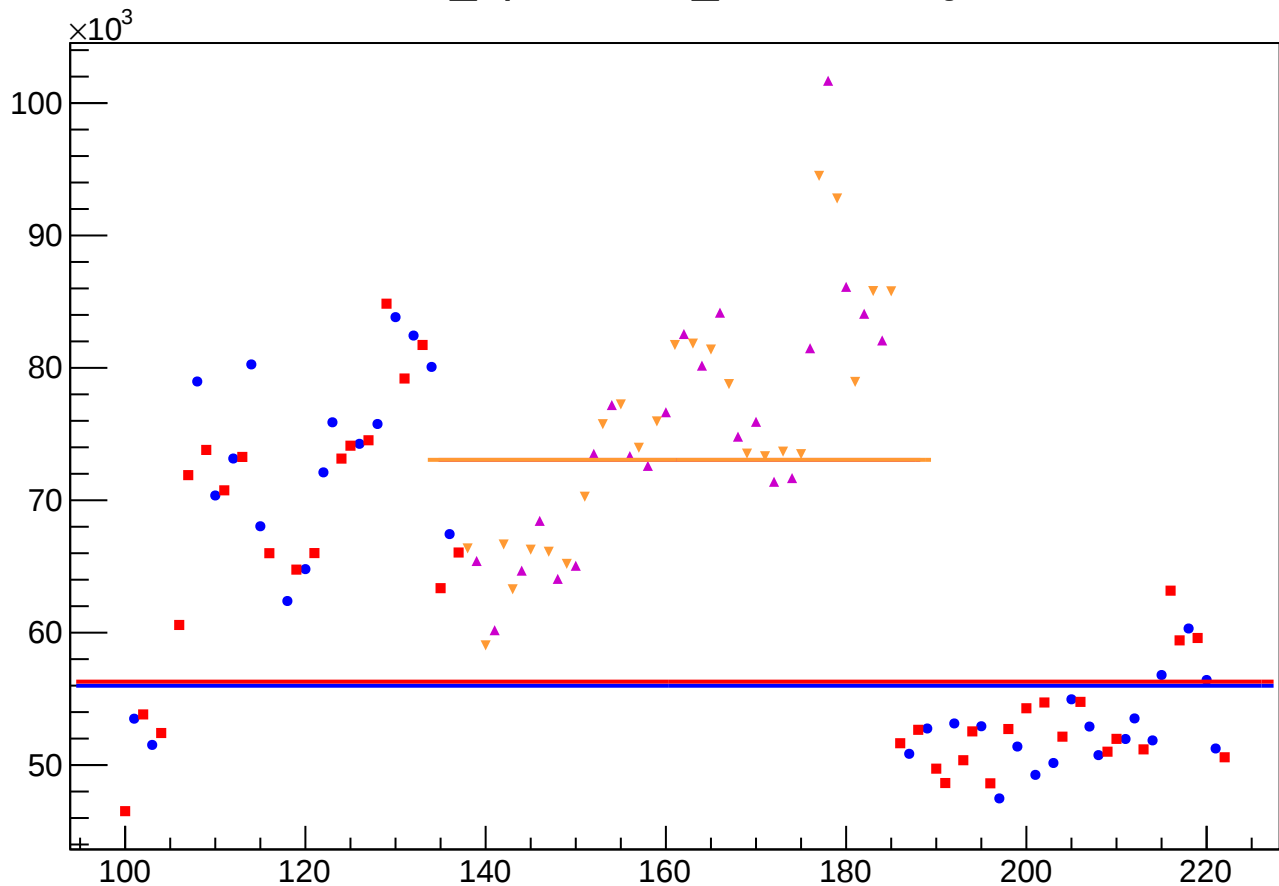
Left In: -7.618 ± 17.672 χ^2/NDF : 28.1/22

+ sign -9.459 ± 10.298 χ^2/NDF : 133.7/59

All: -27.043 ± 7.275 χ^2/NDF : 295.8/120

- sign -44.556 ± 10.278 χ^2/NDF : 156.3/60

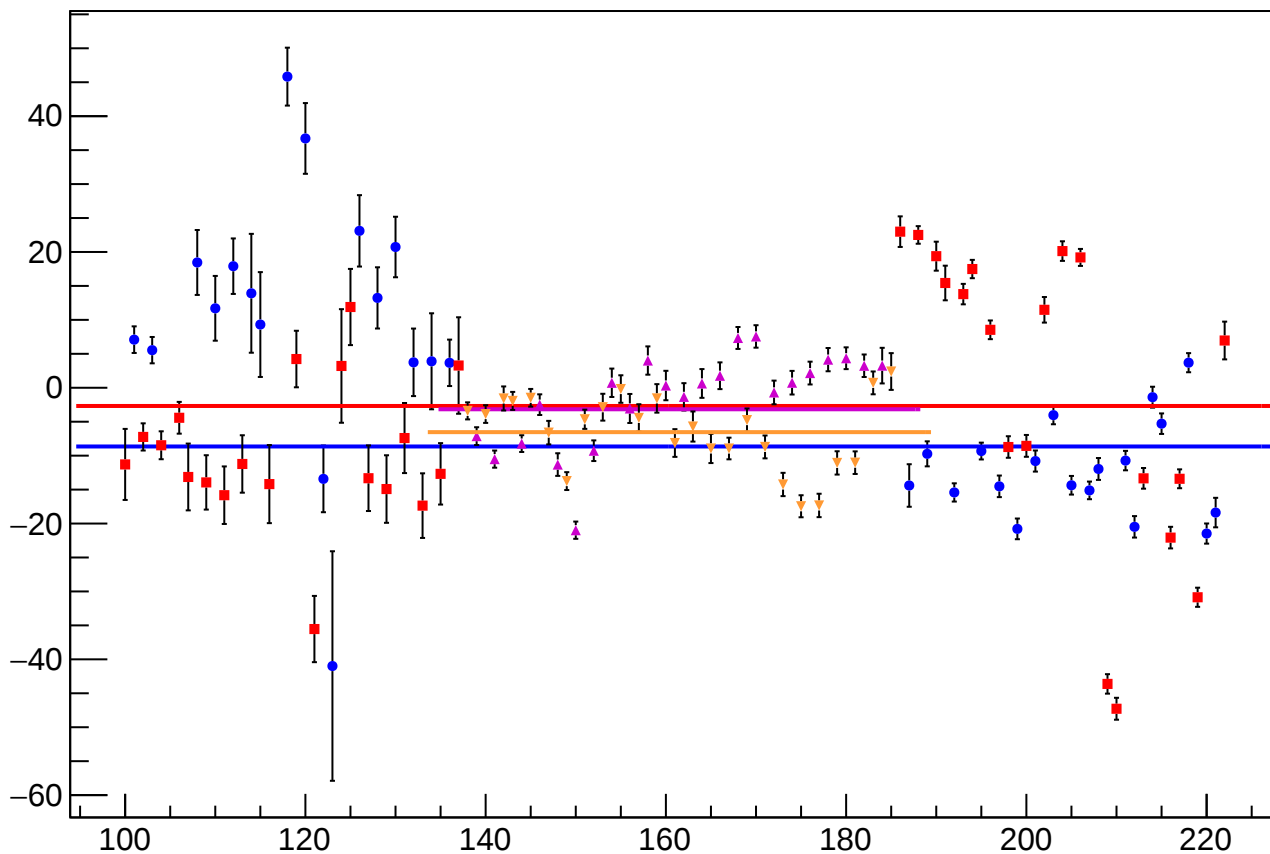
diff_bpm0r03X_rms vs Slug



Right In: 55993.014 ± 9.108 $\chi^2/\text{NDF}: 830110.8/34$
 Left Out: 73054.401 ± 12.124 $\chi^2/\text{NDF}: 473050.9/24$
 Right Out: 56301.506 ± 8.934 $\chi^2/\text{NDF}: 815796.2/37$
 Left In: 73045.500 ± 12.496 $\chi^2/\text{NDF}: 463525.5/22$

+ sign 62147.858 ± 7.282 $\chi^2/\text{NDF}: 2569057.8/59$
 All: 62056.290 ± 5.144 $\chi^2/\text{NDF}: 5036905.5/100$
 - sign 61965.089 ± 7.267 $\chi^2/\text{NDF}: 2467532.1/60$

diff_bpm0r03Y_mean vs Slug



Right In: -8.649 ± 0.334 $\chi^2/\text{NDF}: 1015.1/34$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -2.683 ± 0.333 $\chi^2/\text{NDF}: 4090.9/37$

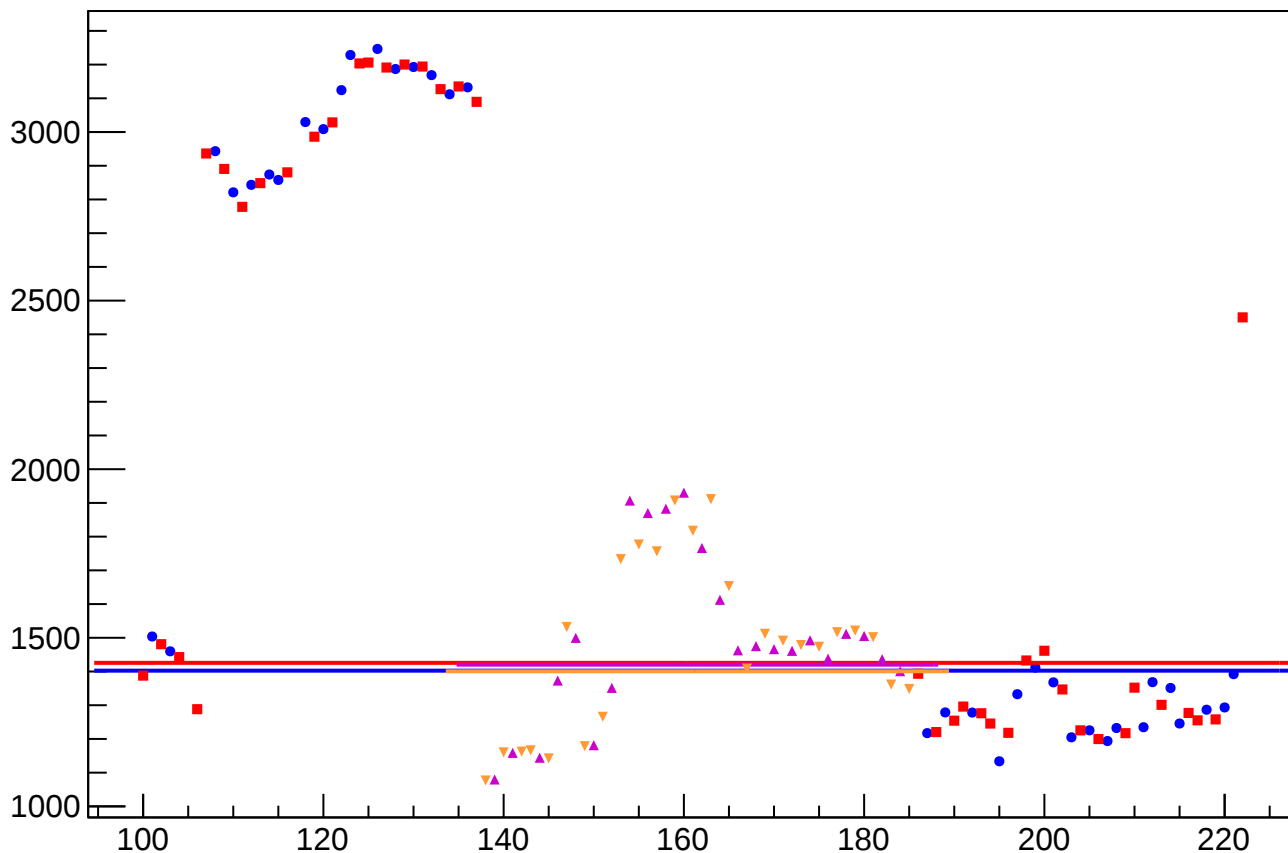
Left In: -3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

+ sign -7.584 ± 0.236 $\chi^2/\text{NDF}: 1288.0/59$

All: -5.293 ± 0.168 $\chi^2/\text{NDF}: 6060.0/120$

- sign -2.917 ± 0.240 $\chi^2/\text{NDF}: 4579.2/60$

diff_bpm0r03Y_rms vs Slug



Right In: 1402.513 ± 0.236 $\chi^2/\text{NDF}: 3639823.5/34$

Left Out: 1400.637 ± 0.235 $\chi^2/\text{NDF}: 1037921.6/24$

Right Out: 1425.673 ± 0.235 $\chi^2/\text{NDF}: 3903981.3/37$

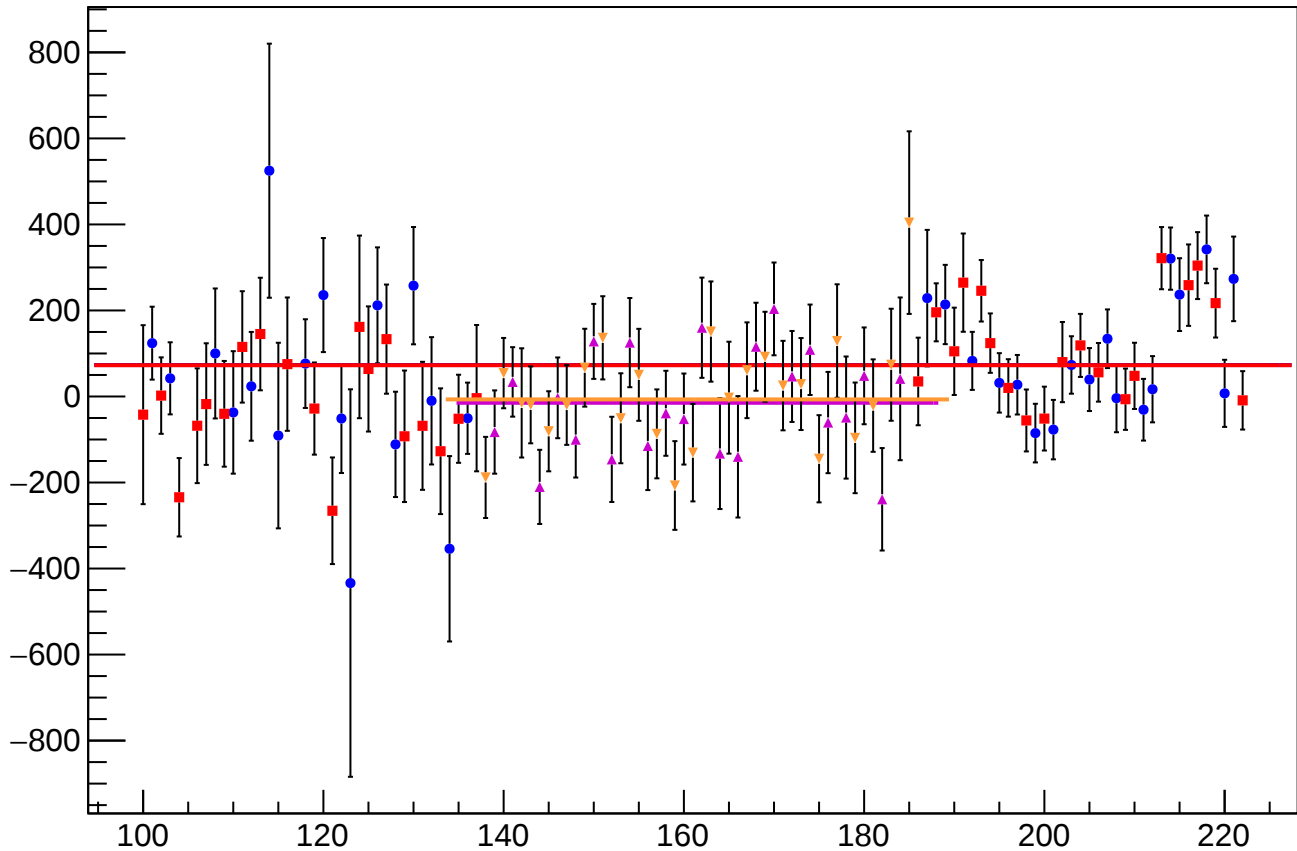
Left In: 1420.285 ± 0.245 $\chi^2/\text{NDF}: 905186.2/22$

+ sign 1401.568 ± 0.167 $\chi^2/\text{NDF}: 4677776.7/59$

All: 1412.131 ± 0.119 $\chi^2/\text{NDF}: 9495391.6/12$

- sign 1423.089 ± 0.170 $\chi^2/\text{NDF}: 4809419.3/60$

diff_bpm0r05X_mean vs Slug



Right In: 73.127 $\pm$ 15.421 χ^2 /NDF: 70.4/34

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

Right Out: 72.710 $\pm$ 15.129 χ^2 /NDF: 79.9/37

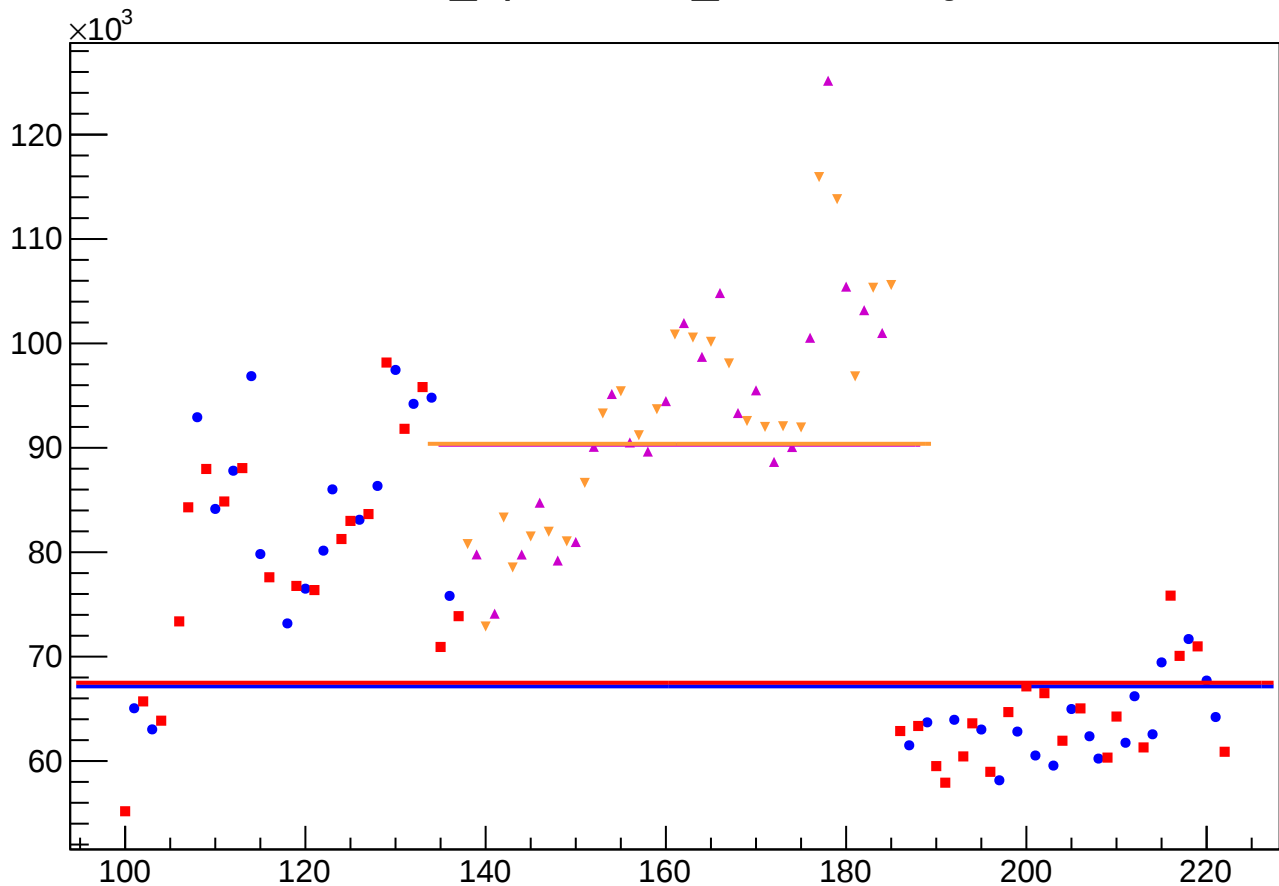
Left In: -14.611 $\pm$ 21.846 χ^2 /NDF: 29.8/22

+ sign 45.496 $\pm$ 12.474 χ^2 /NDF: 104.3/59

All: 44.949 $\pm$ 8.807 χ^2 /NDF: 224.9/120

- sign 44.405 $\pm$ 12.438 χ^2 /NDF: 120.6/60

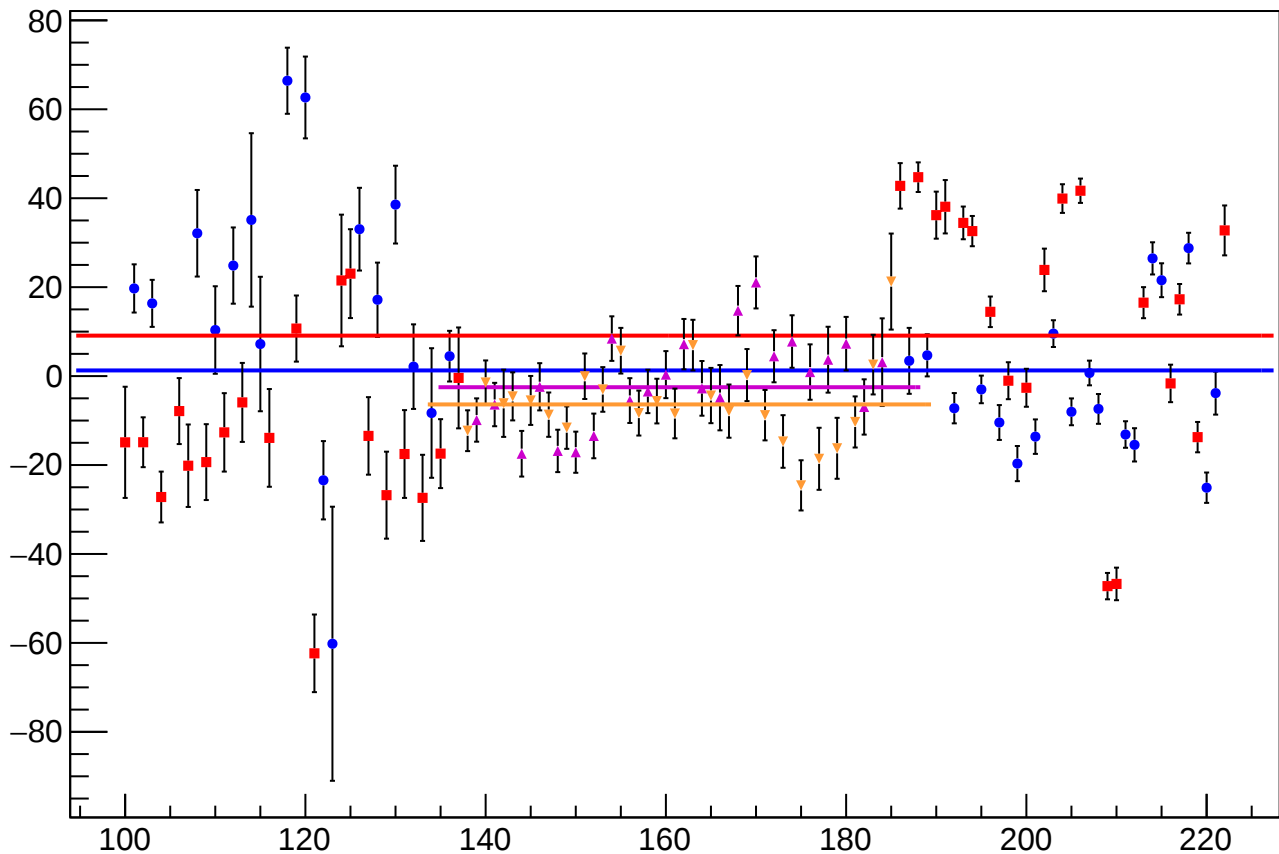
diff_bpm0r05X_rms vs Slug



Right In: 67152.397 ± 10.904 $\chi^2/\text{NDF}: 671939.4/34$
 Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$
 Right Out: 67500.226 ± 10.698 $\chi^2/\text{NDF}: 688286.5/37$
 Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

+ sign 75185.175 ± 8.820 $\chi^2/\text{NDF}: 2703046.8/59$
 All: 75036.456 ± 6.228 $\chi^2/\text{NDF}: 5324707.7/1$
 - sign 74888.589 ± 8.795 $\chi^2/\text{NDF}: 2621094.0/60$

diff_bpm0r05Y_mean vs Slug



Right In: 1.273 ± 0.774 $\chi^2/\text{NDF}: 537.7/34$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: 9.100 ± 0.787 $\chi^2/\text{NDF}: 1458.7/37$

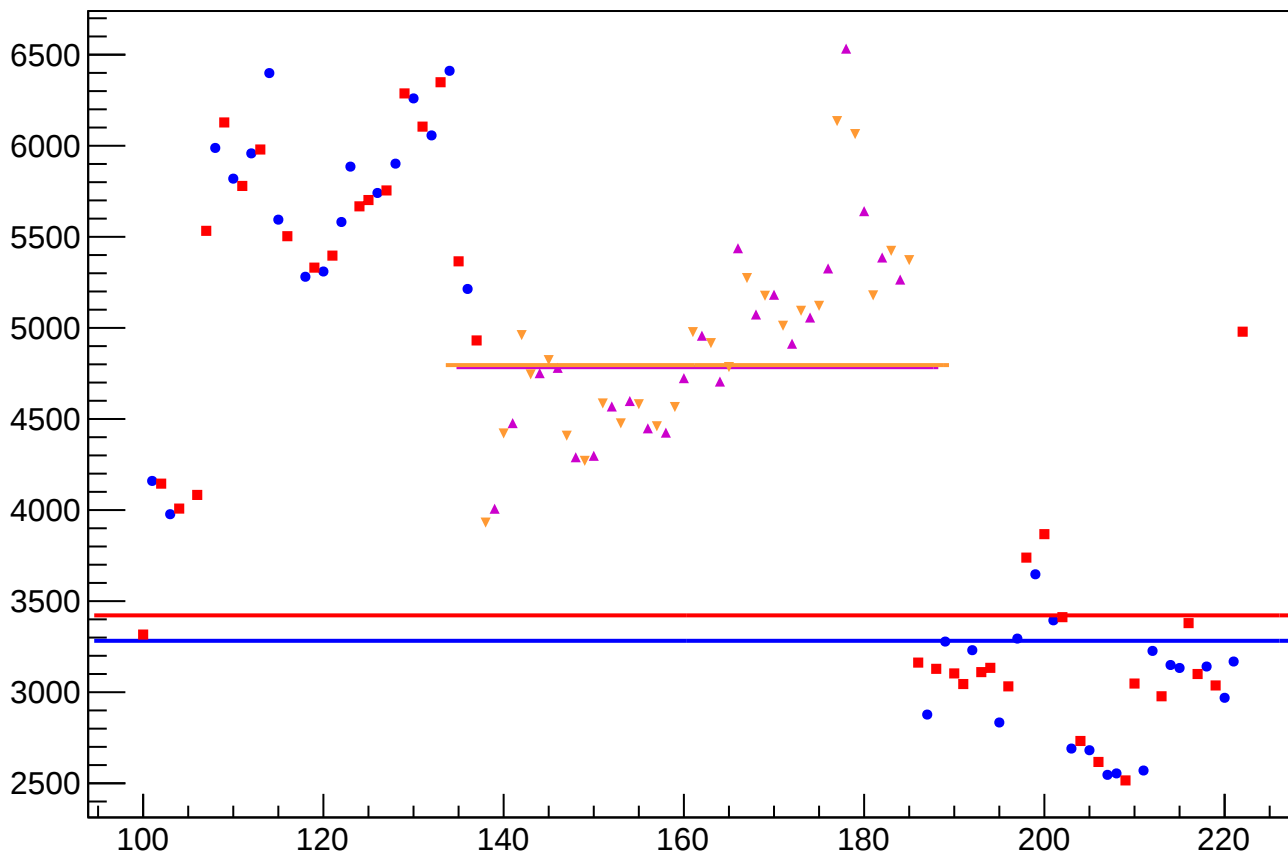
Left In: -2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

+ sign -1.185 ± 0.637 $\chi^2/\text{NDF}: 614.5/59$

All: 2.050 ± 0.455 $\chi^2/\text{NDF}: 2273.0/120$

- sign 5.422 ± 0.651 $\chi^2/\text{NDF}: 1605.9/60$

diff_bpm0r05Y_rms vs Slug



Right In: 3282.249+/-0.547 χ^2 /NDF: 2719202.5/34

Left Out: 4795.847+/-0.795 χ^2 /NDF:361249.7/24

Right Out: 3421.858+/-0.557 χ^2 /NDF: 2771955.2/37

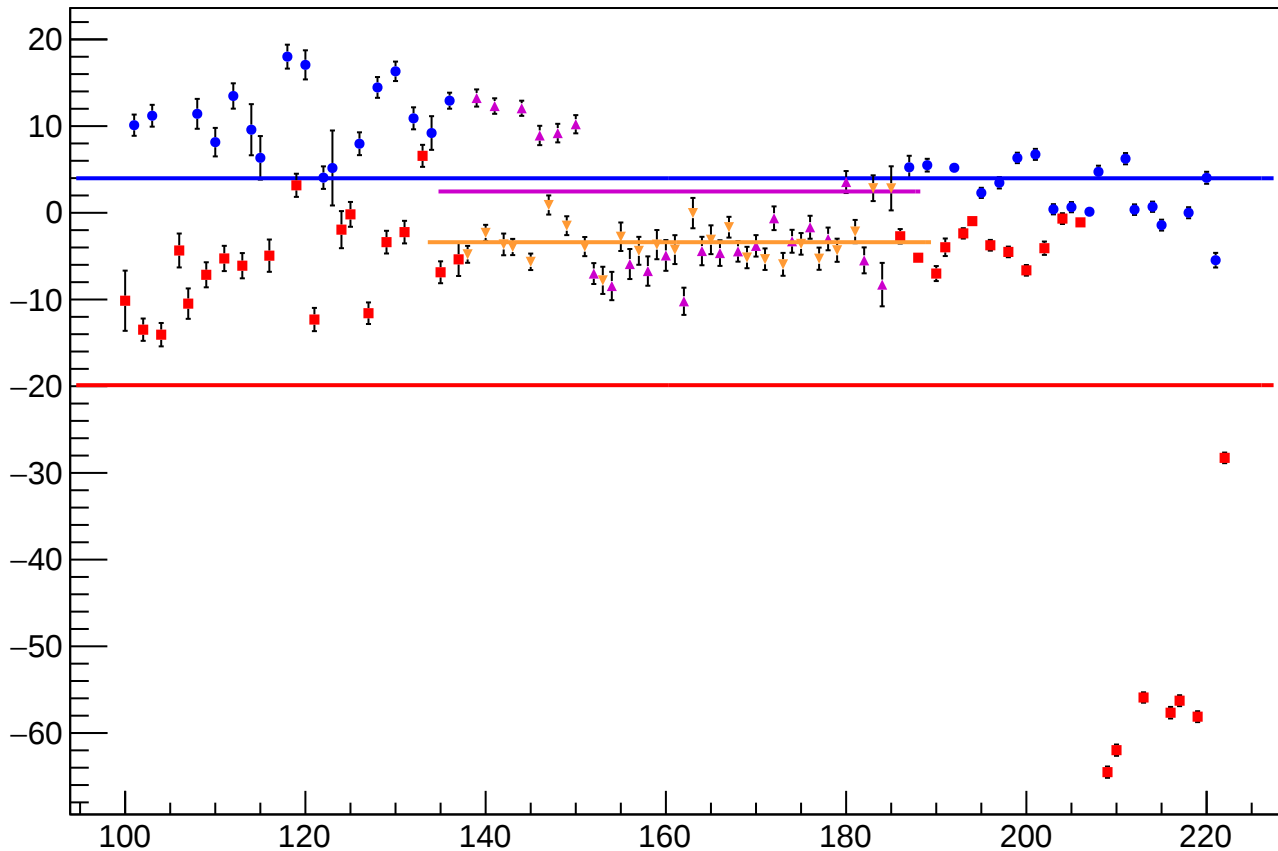
Left In: 4784.434+/-0.817 χ^2 /NDF:357507.2/22

+ sign 3769.076+/-0.451 χ^2 /NDF: 5541292.5/59

All: 3810.553+/-0.322 χ^2 /NDF: 10586146.4/1

- sign 3853.796+/-0.460 χ^2 /NDF: 5027554.6/60

diff_bpm2i01X_mean vs Slug



Right In: 3.984 ± 0.139 χ^2/NDF : 1115.8/34

Left Out: -3.390 ± 0.252 χ^2/NDF : 77.7/24

Right Out: -19.881 ± 0.135 χ^2/NDF : 32972.9/37

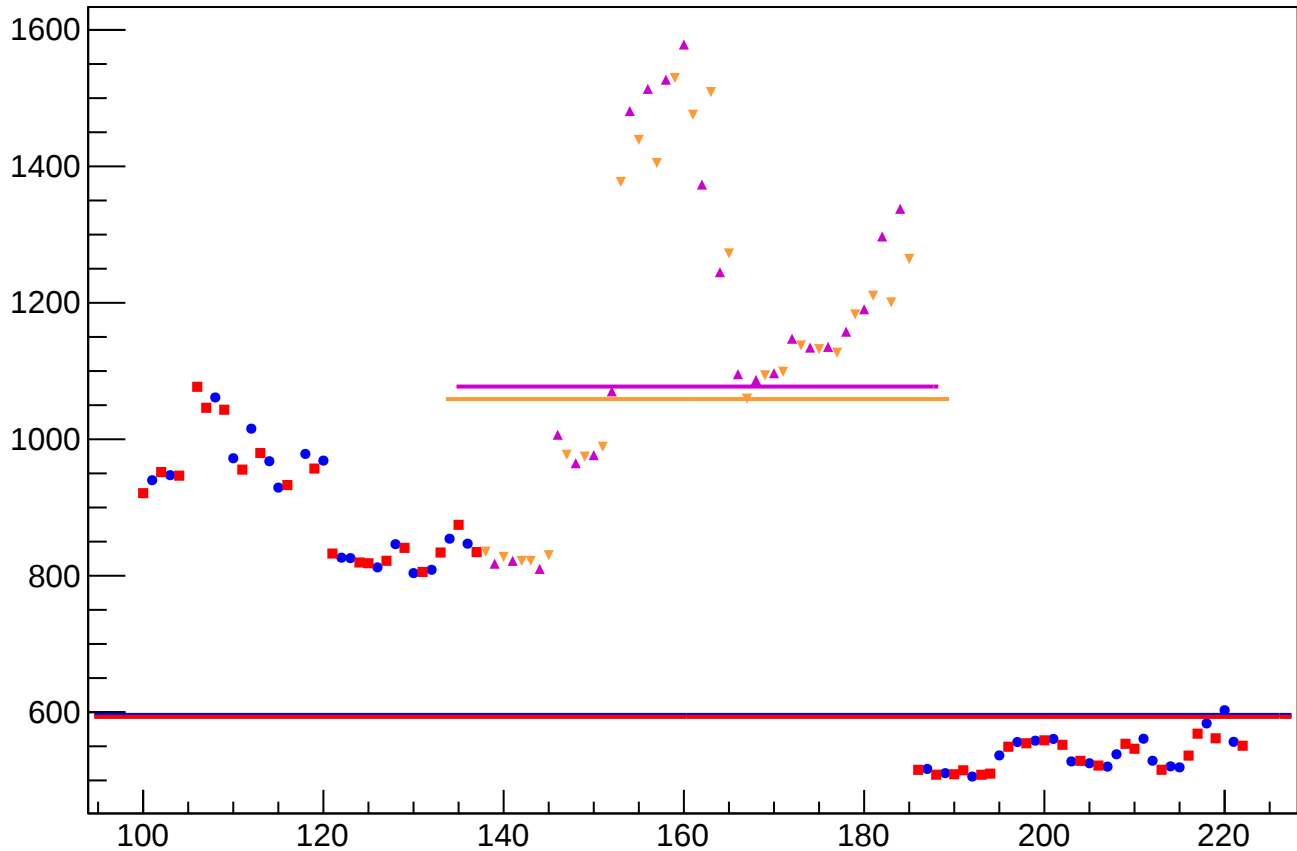
Left In: 2.461 ± 0.264 χ^2/NDF : 928.0/22

+ sign 2.275 ± 0.121 χ^2/NDF : 1850.0/59

All: -6.593 ± 0.085 χ^2/NDF : 51970.1/120

- sign -15.269 ± 0.120 χ^2/NDF : 39568.8/60

diff_bpm2i01X_rms vs Slug



Right In: 596.043+/-0.098 χ^2/NDF : 1901564.4/34

Left Out: 1058.941+/-0.178 χ^2/NDF : 1403222.2/24

Right Out: 593.059+/-0.095 χ^2/NDF : 2124122.4/37

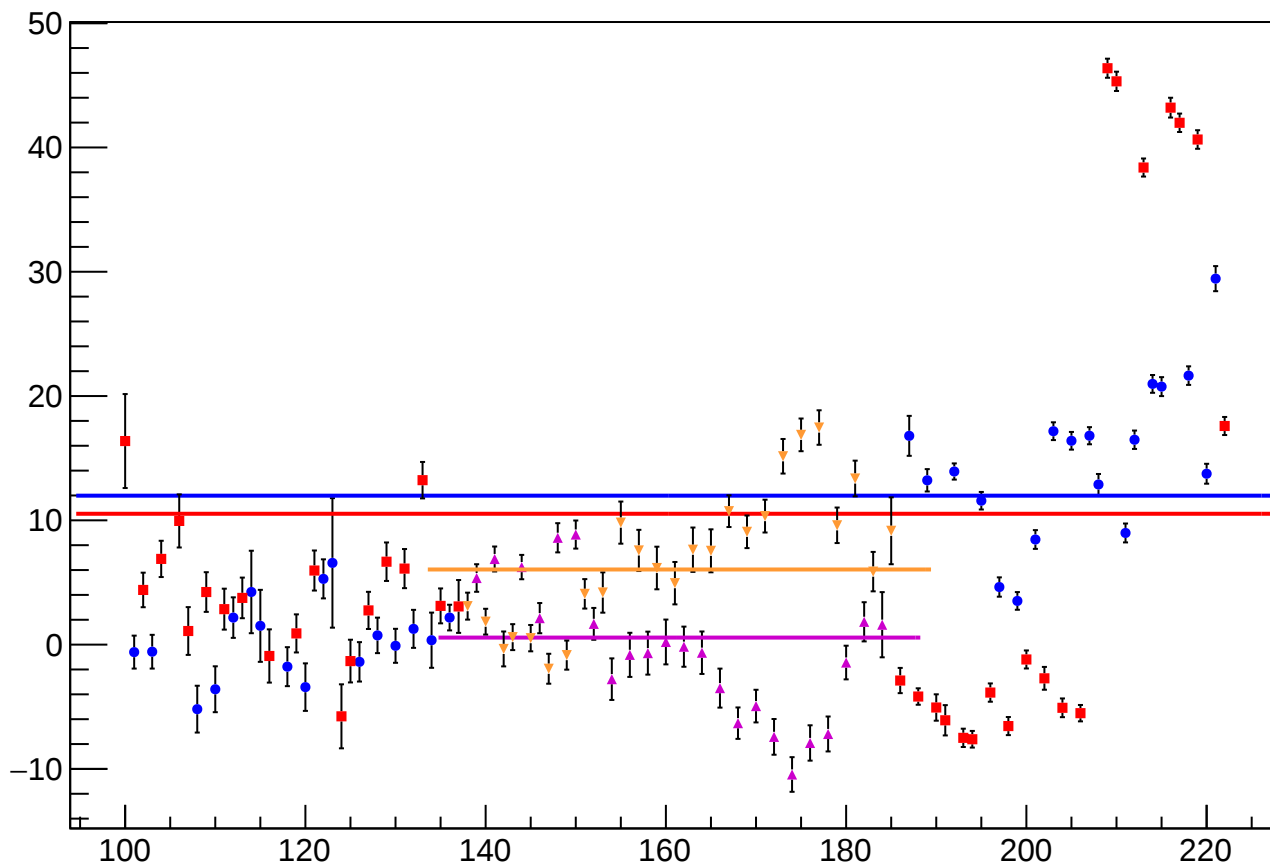
Left In: 1077.284+/-0.187 χ^2/NDF : 1280349.9/22

+ sign 703.314+/-0.086 χ^2/NDF : 8478882.9/59

All: 698.109+/-0.060 χ^2/NDF : 17215411.9/12

- sign 693.017+/-0.085 χ^2/NDF : 8729259.5/60

diff_bpm2i01Y_mean vs Slug



Right In: 11.985 ± 0.165 $\chi^2/\text{NDF}: 2152.1/34$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 10.528 ± 0.161 $\chi^2/\text{NDF}: 16035.9/37$

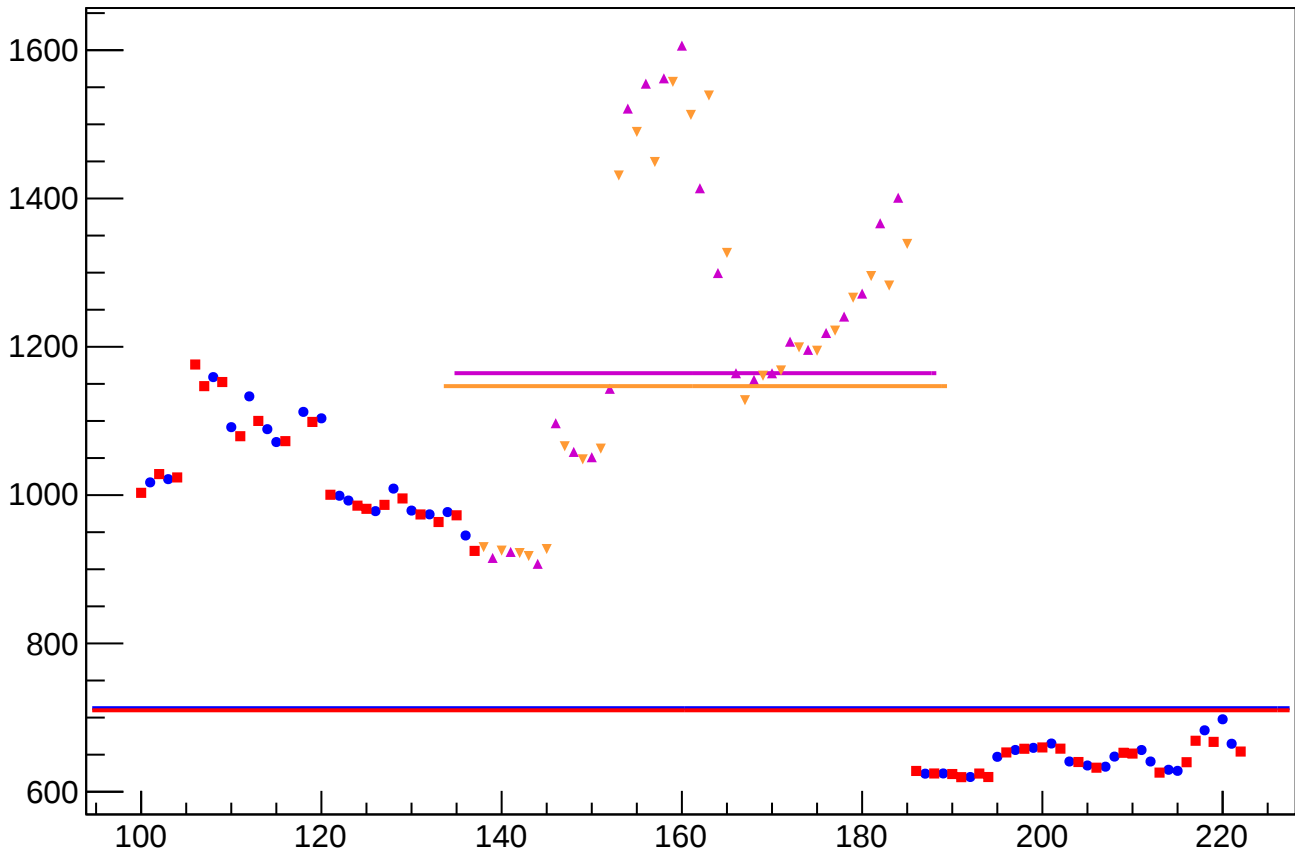
Left In: 0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

+ sign 10.385 ± 0.141 $\chi^2/\text{NDF}: 2932.1/59$

All: 9.241 ± 0.099 $\chi^2/\text{NDF}: 20447.2/120$

- sign 8.115 ± 0.140 $\chi^2/\text{NDF}: 17384.5/60$

diff_bpm2i01Y_rms vs Slug



Right In: 712.674+/-0.117 χ^2/NDF : 1572053.2/34

Left Out: 1146.960+/-0.192 χ^2/NDF :1045761.4/24

Right Out: 709.831+/-0.114 χ^2/NDF : 1749488.5/37

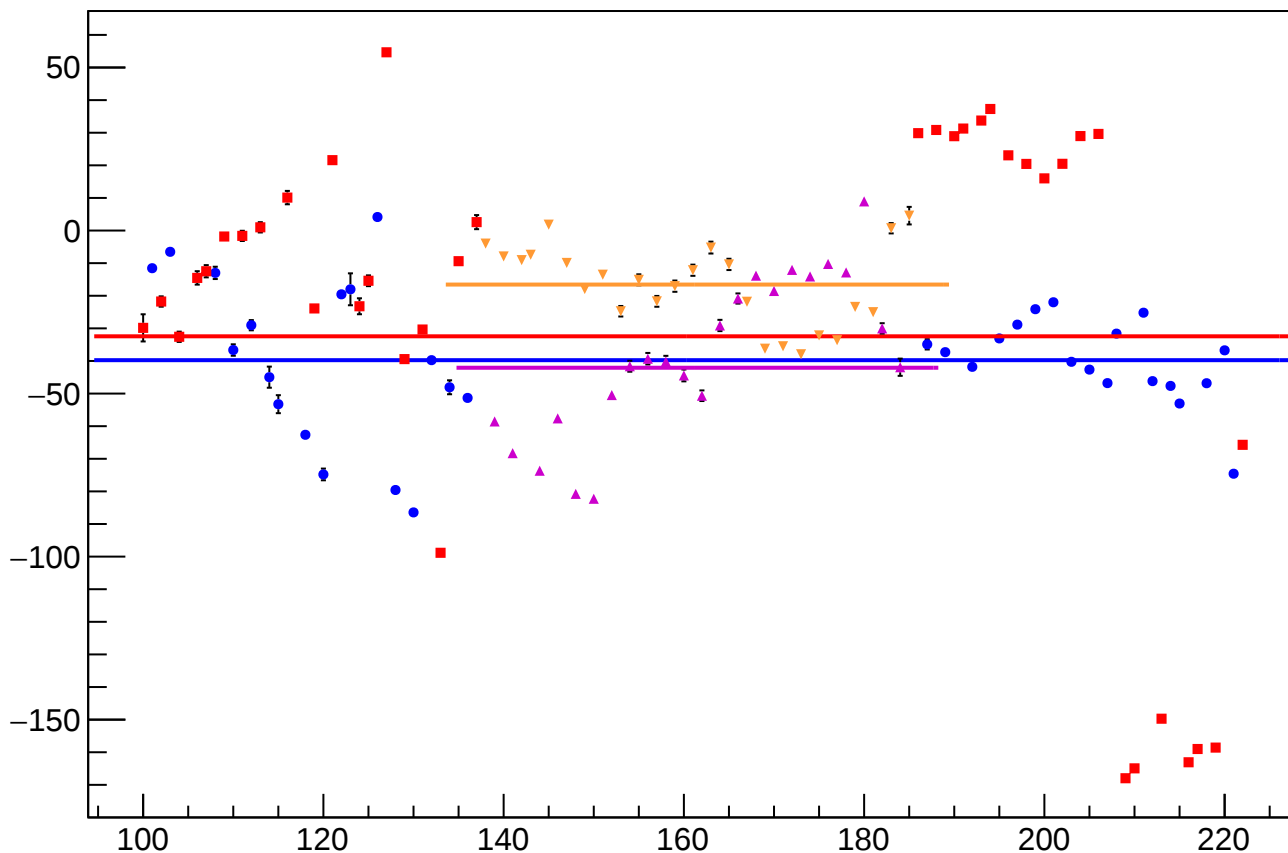
Left In: 1164.432+/-0.201 χ^2/NDF :944112.0/22

+ sign 829.647+/-0.100 χ^2/NDF : 6352077.4/59

All: 824.756+/-0.070 χ^2/NDF : 12930378.4/12

- sign 819.945+/-0.099 χ^2/NDF : 6573526.8/60

diff_bpm2i02X_mean vs Slug



Right In: -39.757 ± 0.164 $\chi^2/\text{NDF}: 8822.5/34$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -32.437 ± 0.159 $\chi^2/\text{NDF}: 253078.7/37$

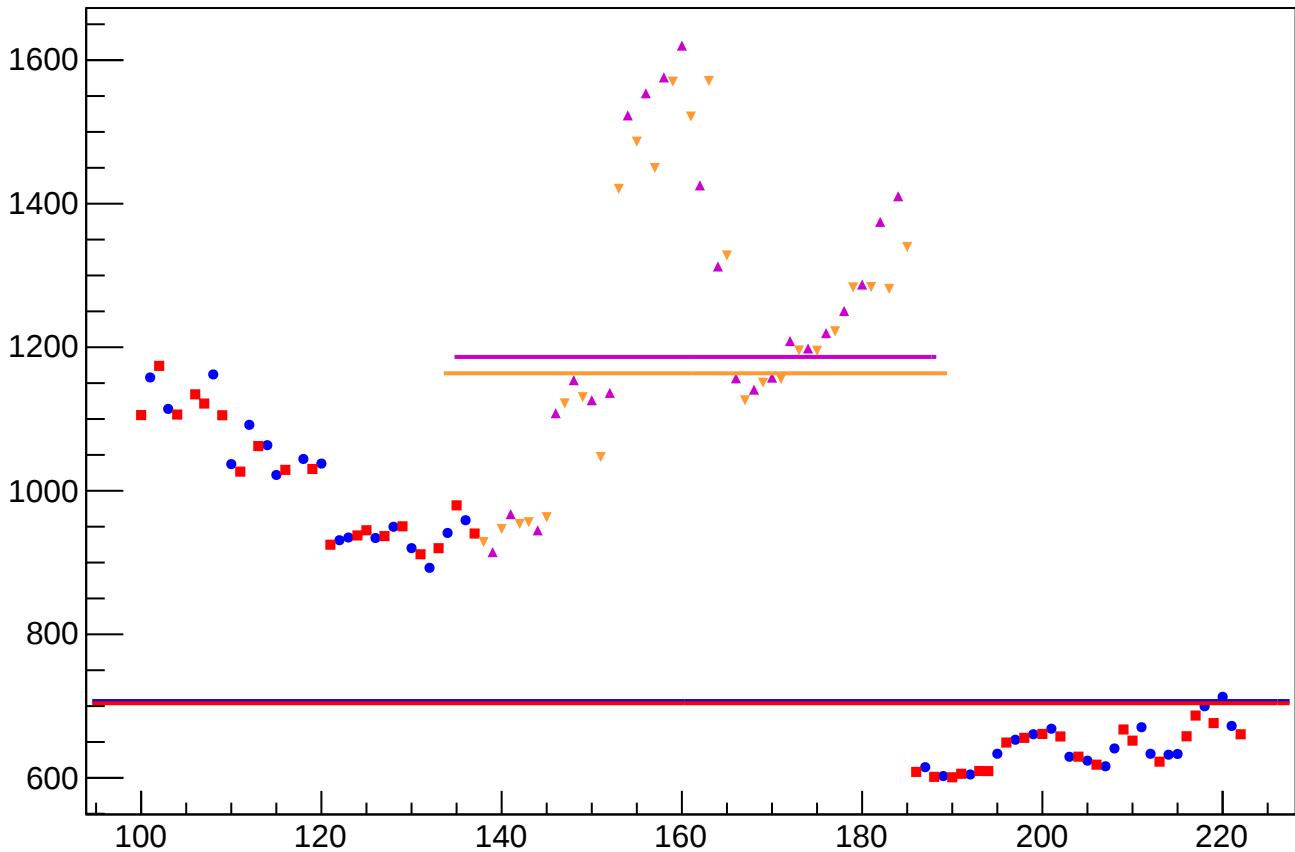
Left In: -42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

+ sign -33.705 ± 0.141 $\chi^2/\text{NDF}: 15999.2/59$

All: -34.197 ± 0.099 $\chi^2/\text{NDF}: 278287.5/120$

- sign -34.681 ± 0.139 $\chi^2/\text{NDF}: 262264.0/60$

diff_bpm2i02X_rms vs Slug



Right In: 707.041 $\pm$ 0.116 χ^2 /NDF: 1553724.8/34

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF:936079.1/24

Right Out: 704.032 $\pm$ 0.113 χ^2 /NDF: 1713924.3/37

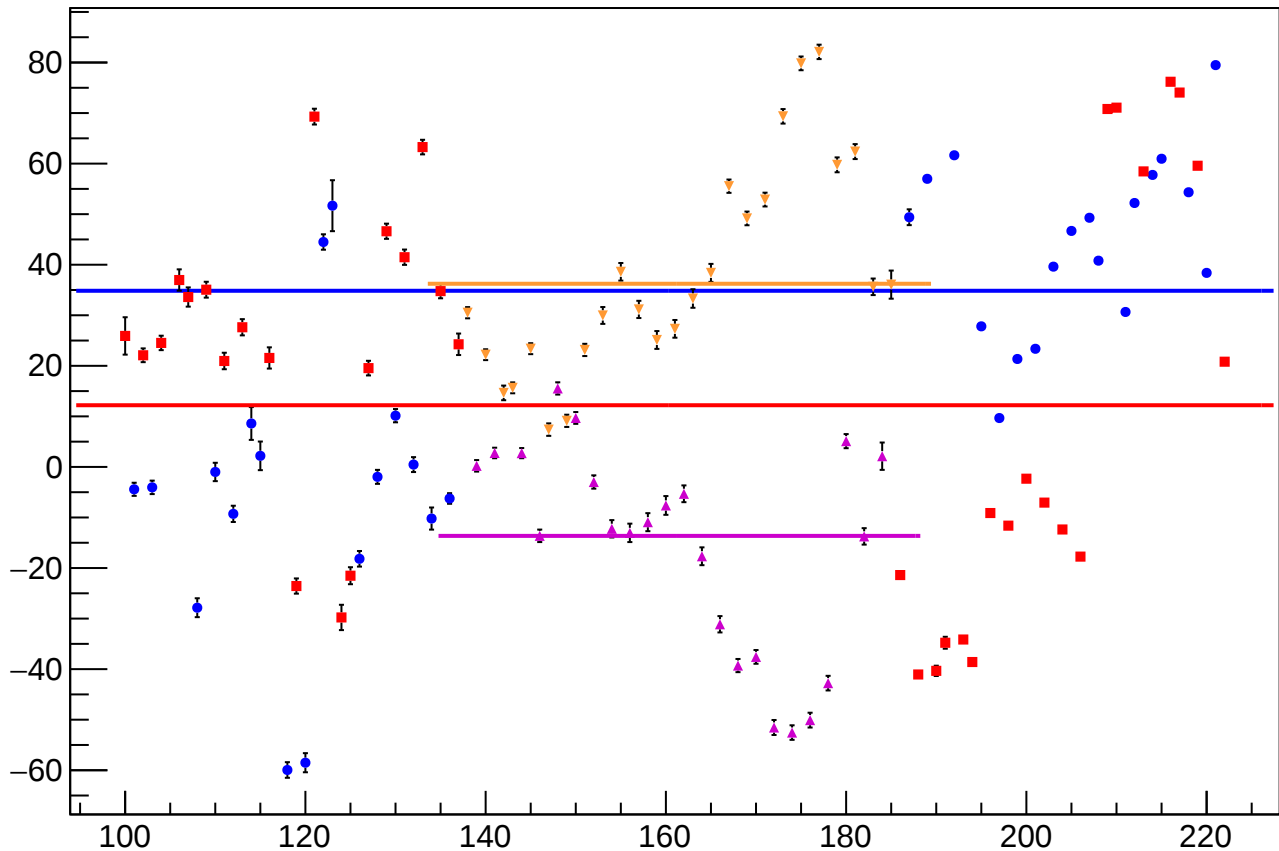
Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF:833420.3/22

+ sign 826.202 $\pm$ 0.099 χ^2 /NDF: 6557856.5/59

All: 821.212 $\pm$ 0.070 χ^2 /NDF: 13383932.8/12

- sign 816.304 $\pm$ 0.099 χ^2 /NDF: 6821080.9/60

diff_bpm2i02Y_mean vs Slug



Right In: 34.846 ± 0.161 $\chi^2/\text{NDF}: 26135.5/34$

Left Out: 36.234 ± 0.280 $\chi^2/\text{NDF}: 5794.2/24$

Right Out: 12.204 ± 0.157 $\chi^2/\text{NDF}: 69330.6/37$

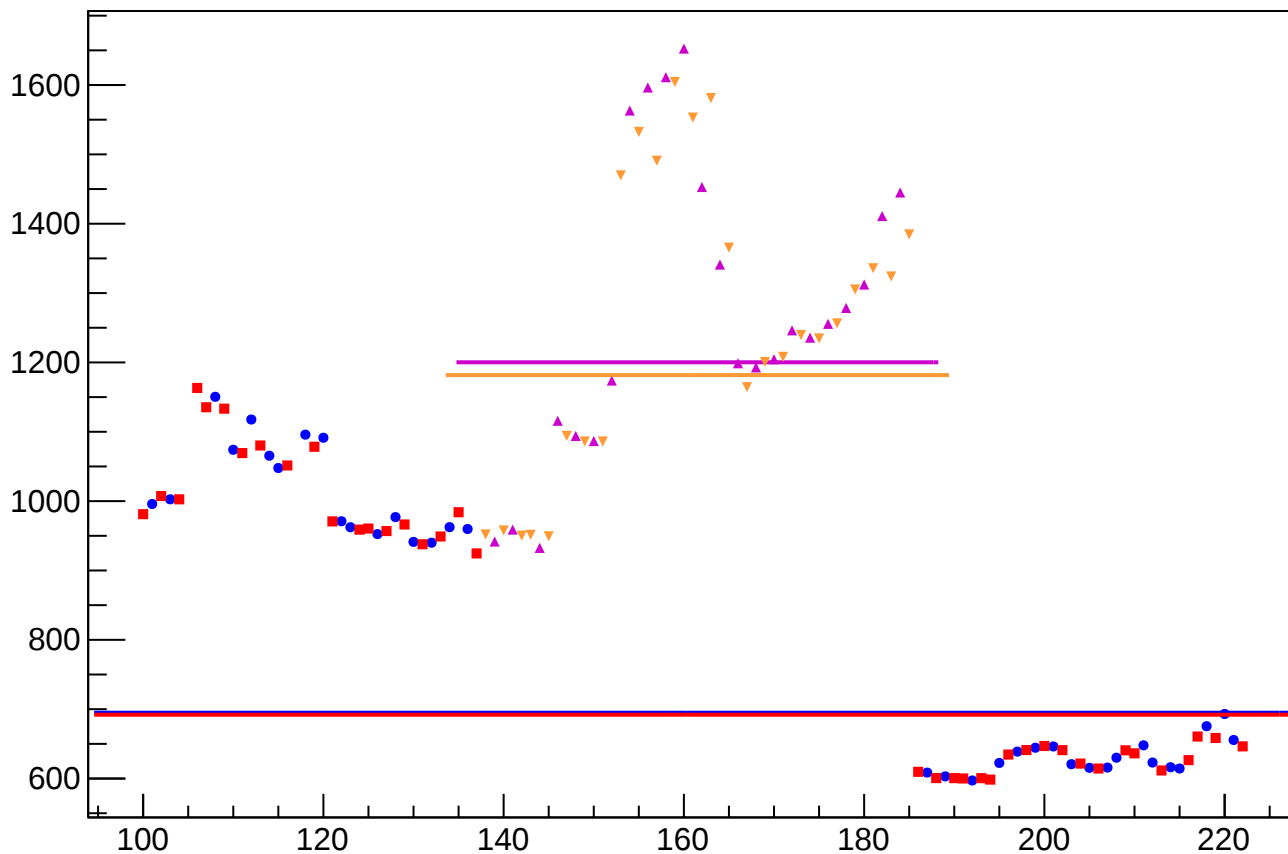
Left In: -13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

+ sign 35.191 ± 0.140 $\chi^2/\text{NDF}: 31948.2/59$

All: 20.680 ± 0.098 $\chi^2/\text{NDF}: 133941.8/120$

- sign 6.451 ± 0.138 $\chi^2/\text{NDF}: 80565.1/60$

diff_bpm2i02Y_rms vs Slug



Right In: 694.925 ± 0.114 $\chi^2/\text{NDF}: 1632104.0/34$

Left Out: 1181.732 ± 0.198 $\chi^2/\text{NDF}: 1043520.8/24$

Right Out: 692.032 ± 0.111 $\chi^2/\text{NDF}: 1809986.2/37$

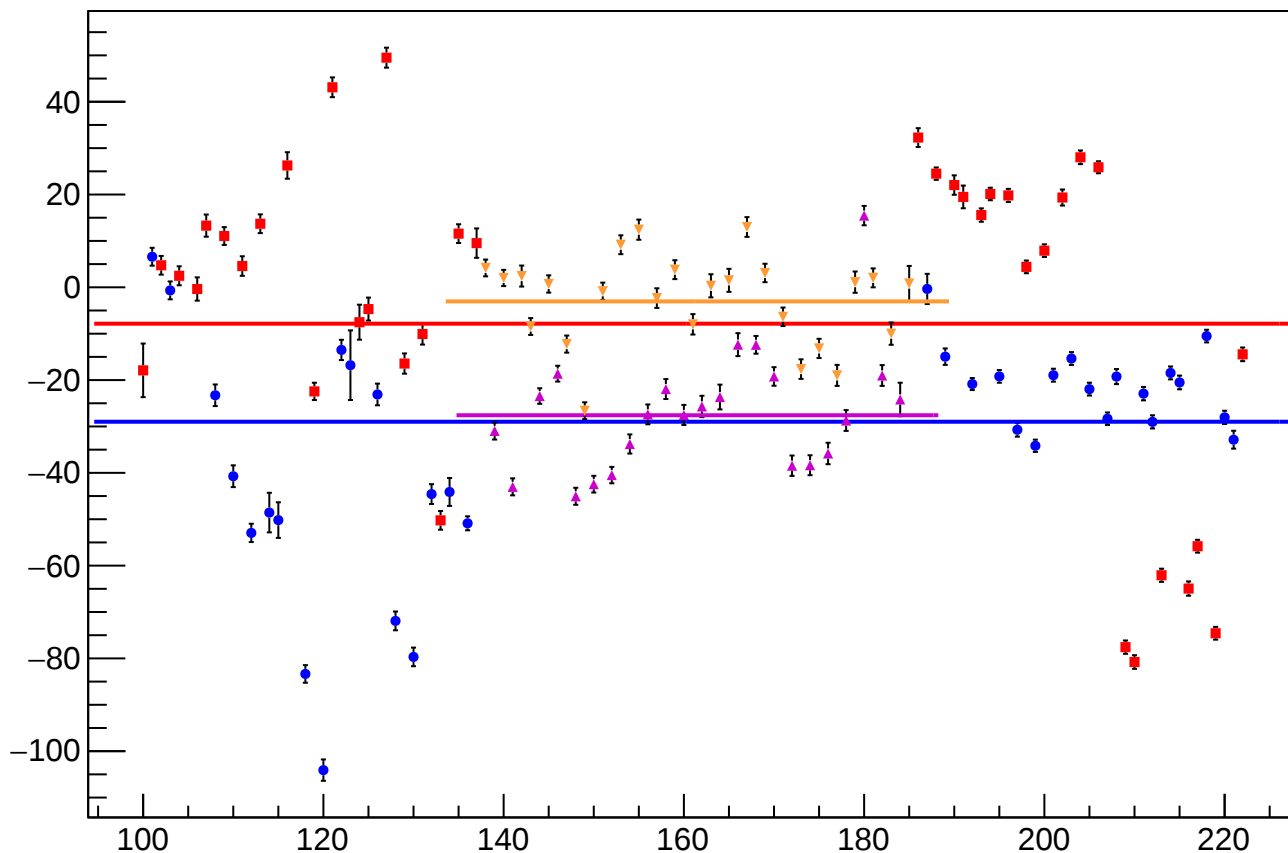
Left In: 1200.198 ± 0.207 $\chi^2/\text{NDF}: 938224.7/22$

+ sign 815.878 ± 0.099 $\chi^2/\text{NDF}: 7223106.6/59$

All: 810.465 ± 0.069 $\chi^2/\text{NDF}: 14660628.8/12$

- sign 805.157 ± 0.098 $\chi^2/\text{NDF}: 7431558.8/60$

diff_bpm0i02X_mean vs Slug



Right In: -28.979 ± 0.292 $\chi^2/\text{NDF}: 4858.6/34$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -7.843 ± 0.286 $\chi^2/\text{NDF}: 17799.3/37$

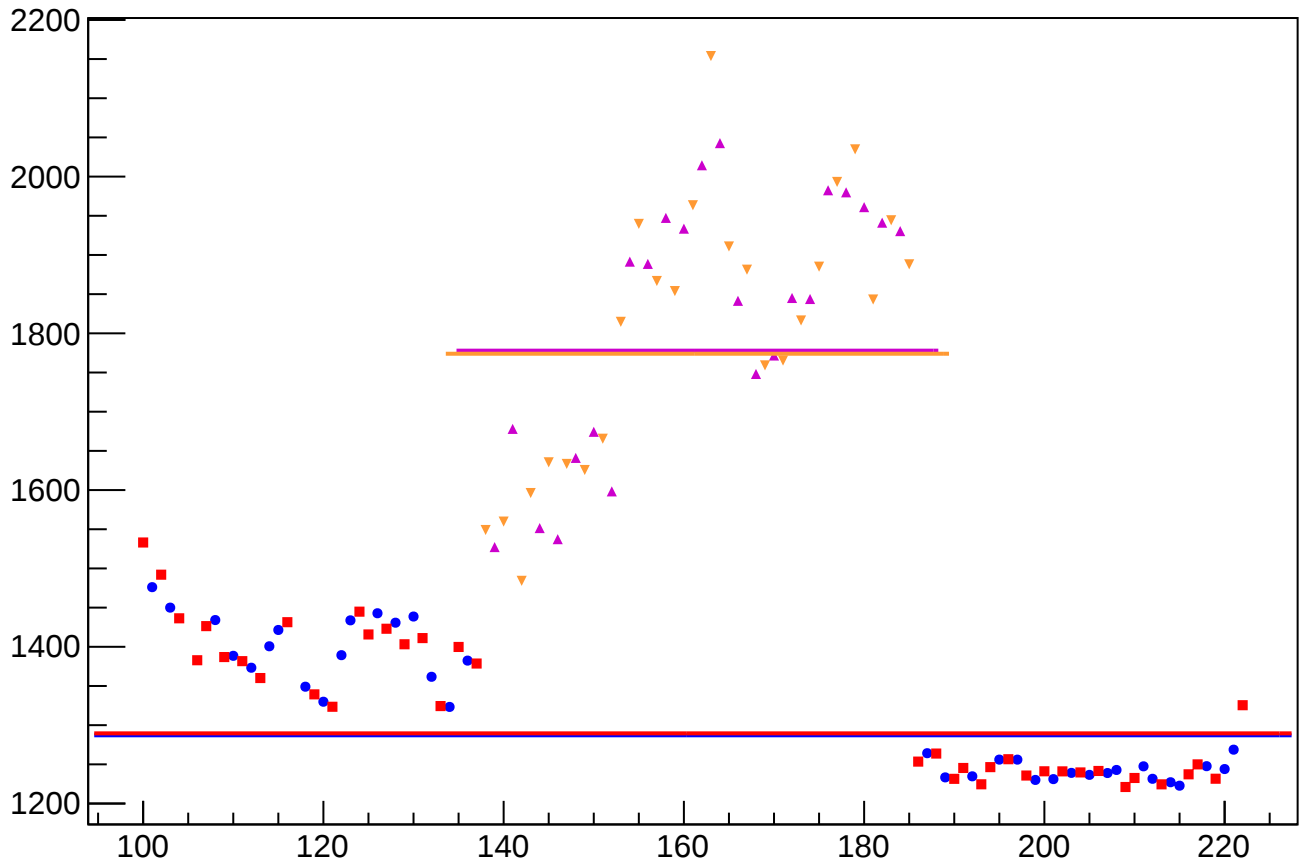
Left In: -27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

+ sign -20.383 ± 0.239 $\chi^2/\text{NDF}: 8026.0/59$

All: -17.136 ± 0.169 $\chi^2/\text{NDF}: 28619.1/120$

- sign -13.915 ± 0.238 $\chi^2/\text{NDF}: 20225.2/60$

diff_bpm0i02X_rms vs Slug



Right In: 1287.082 $\pm$ 0.207 χ^2 /NDF: 140791.8/34

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1289.558 $\pm$ 0.202 χ^2 /NDF: 140464.5/37

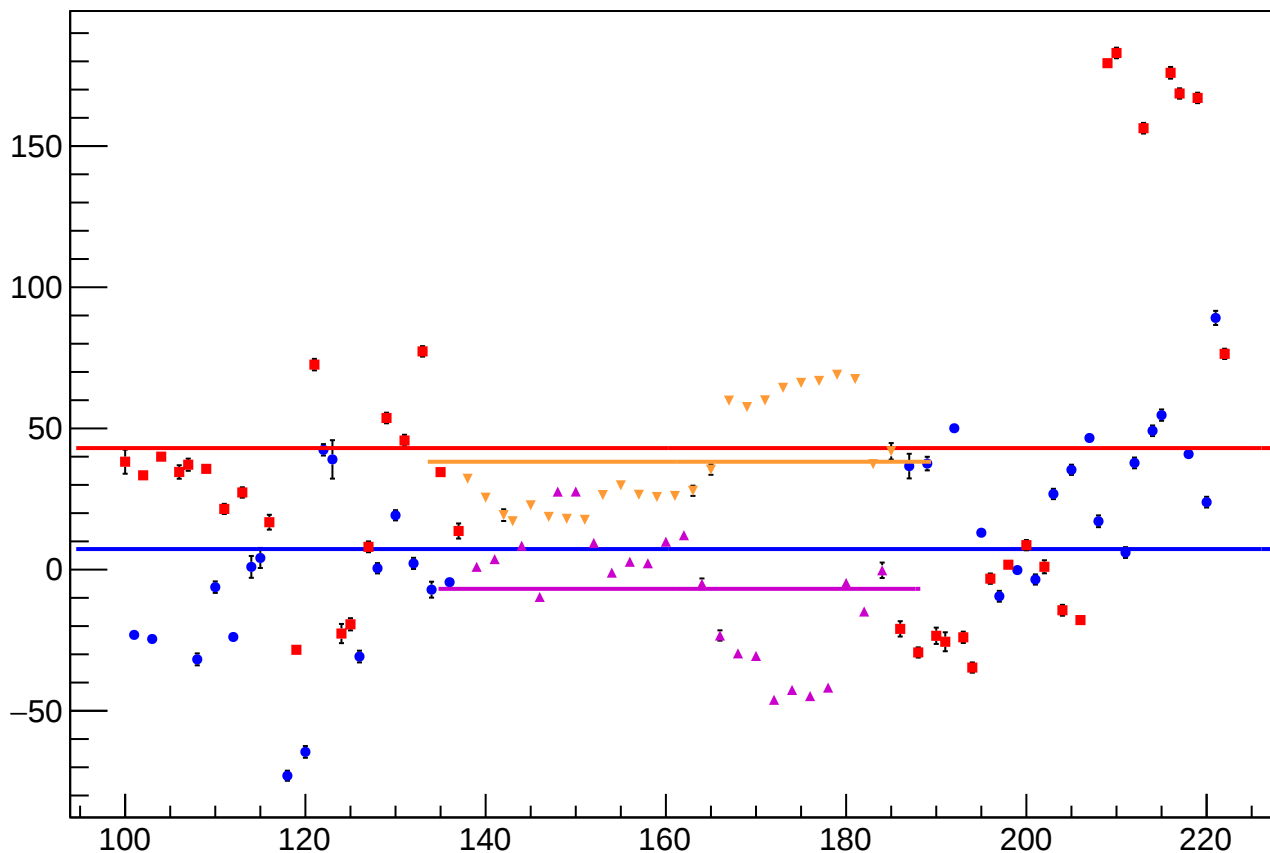
Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

+ sign 1448.410 $\pm$ 0.169 χ^2 /NDF: 2293777.1/59

All: 1444.078 $\pm$ 0.119 χ^2 /NDF: 4529066.9/12

- sign 1439.782 $\pm$ 0.168 χ^2 /NDF: 2233980.5/60

diff_bpm0i02Y_mean vs Slug



Right In: 7.280 ± 0.329 χ^2/NDF : 10221.5/34

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: 43.041 ± 0.320 χ^2/NDF : 43573.8/37

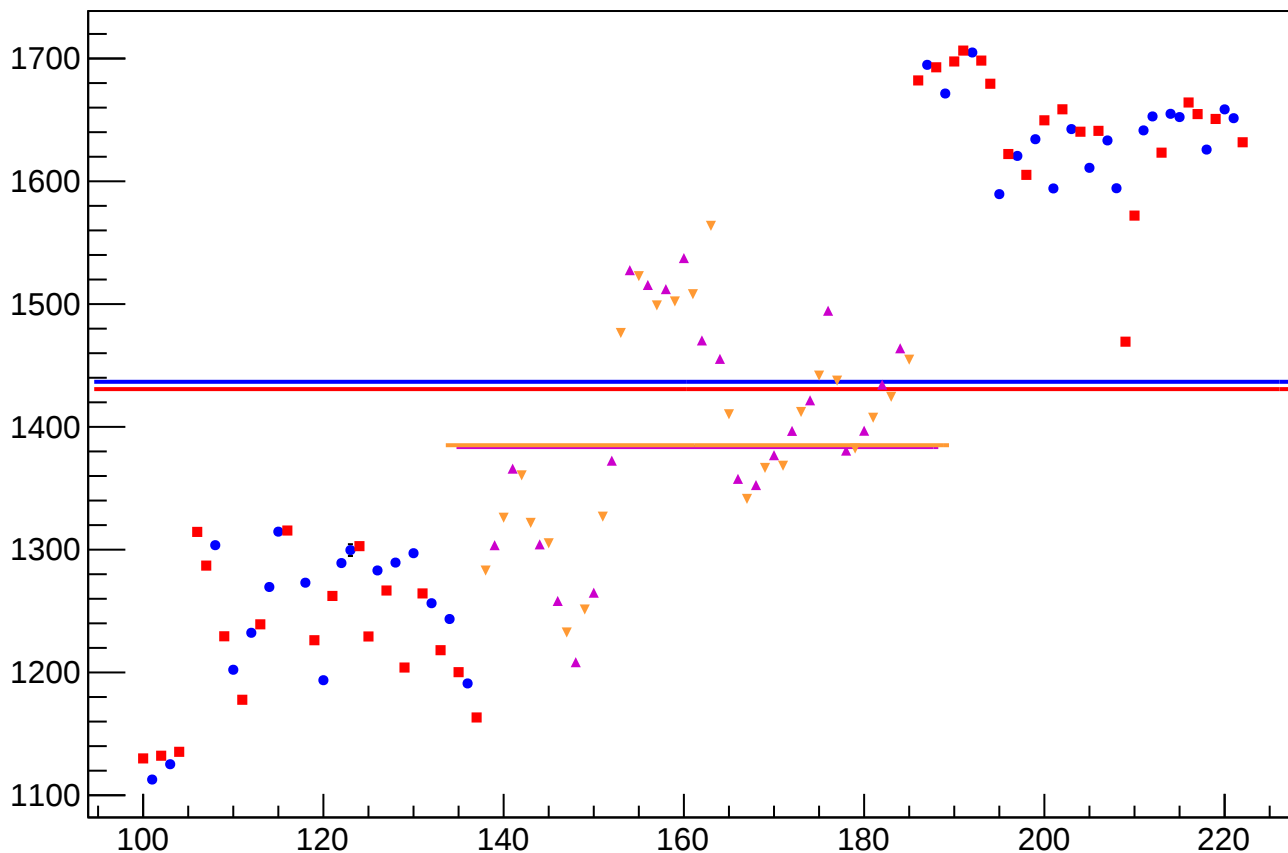
Left In: -6.808 ± 0.333 χ^2/NDF : 4494.5/22

+ sign 23.020 ± 0.231 χ^2/NDF : 18227.0/59

All: 21.052 ± 0.163 χ^2/NDF : 78080.6/120

- sign 19.081 ± 0.231 χ^2/NDF : 59707.9/60

diff_bpm0i02Y_rms vs Slug



Right In: 1436.715 $\pm$ 0.233 χ^2 /NDF: 830962.1/34

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1430.755 $\pm$ 0.227 χ^2 /NDF: 909455.7/37

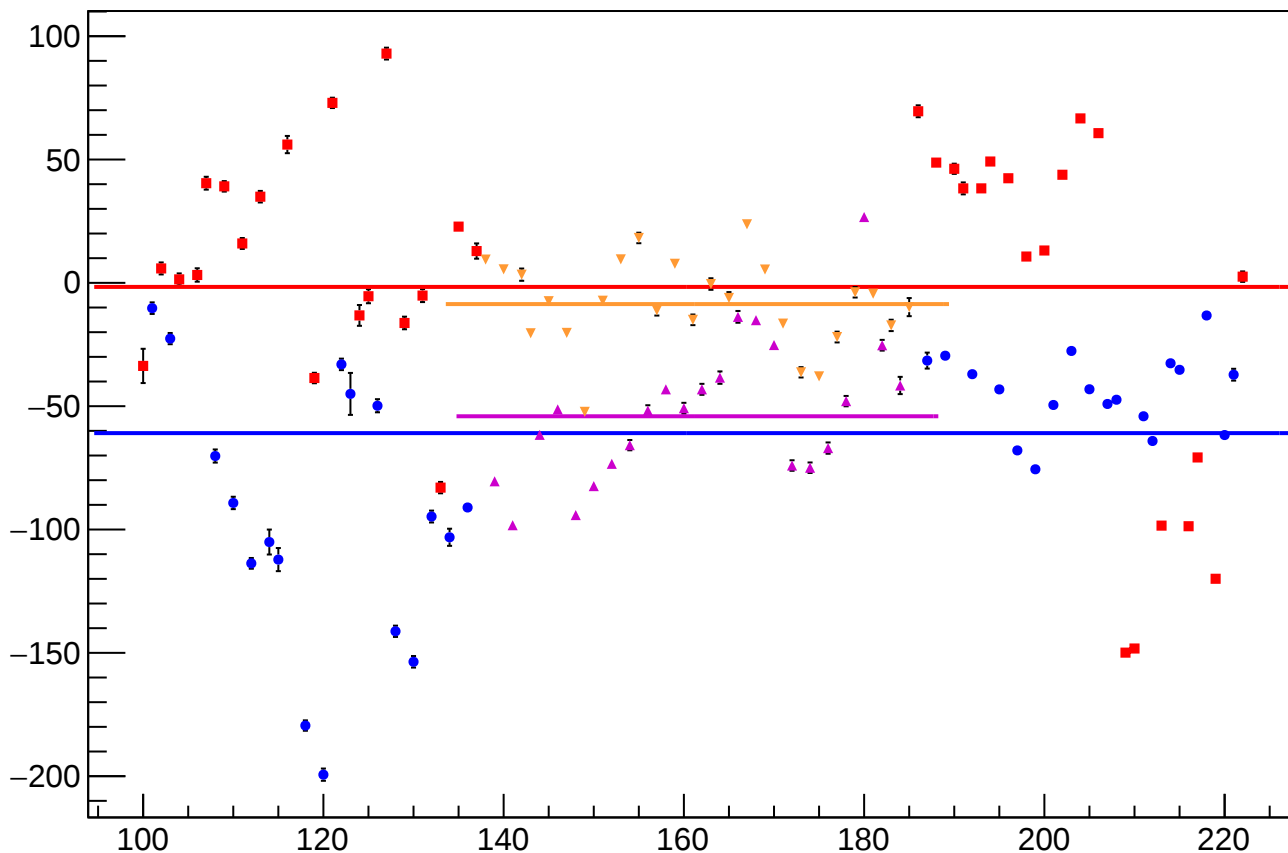
Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

+ sign 1410.427 $\pm$ 0.163 χ^2 /NDF: 1002019.8/59

All: 1409.249 $\pm$ 0.115 χ^2 /NDF: 2087143.3/12

- sign 1408.069 $\pm$ 0.163 χ^2 /NDF: 1085019.2/60

diff_bpm0i02aX_mean vs Slug



Right In: -60.919 ± 0.331 χ^2/NDF : 14847.9/34

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -1.642 ± 0.322 χ^2/NDF : 44146.2/37

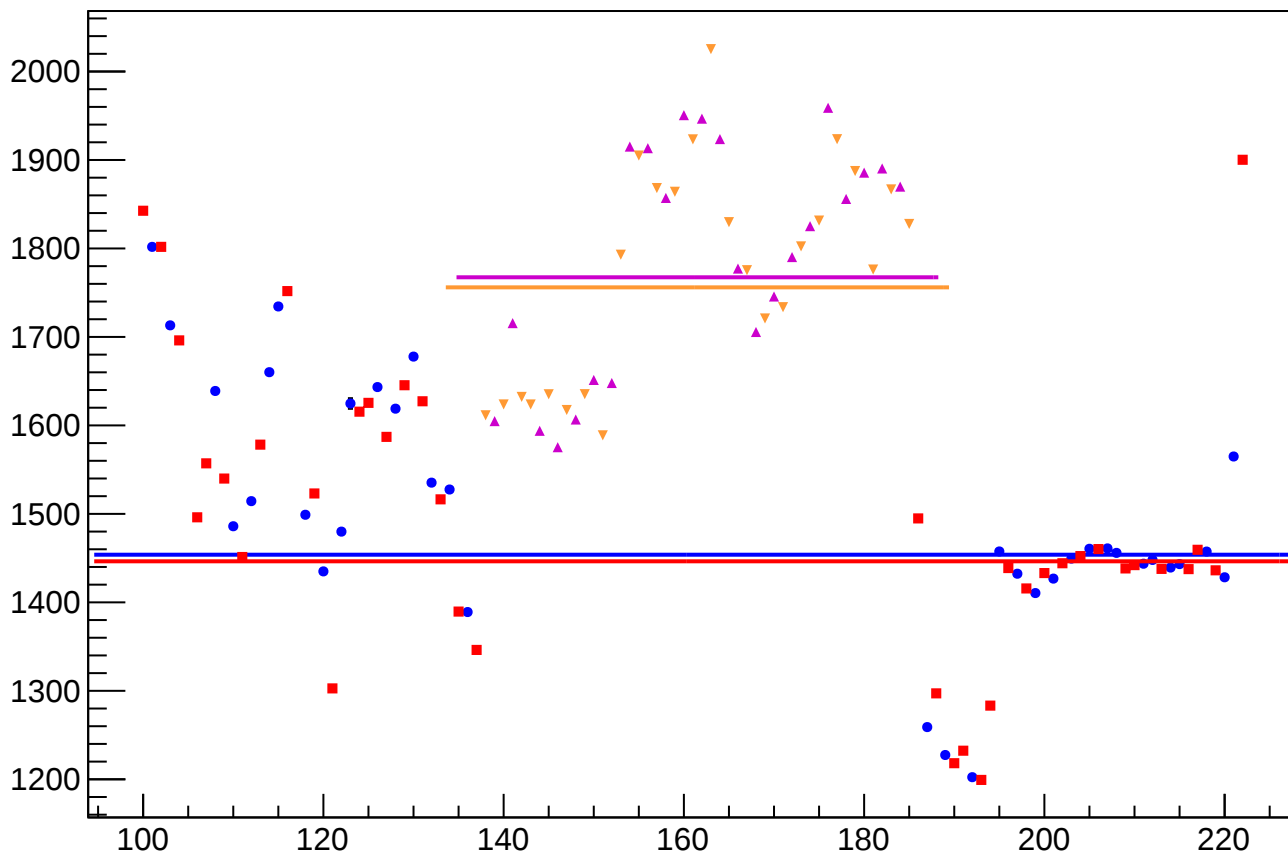
Left In: -54.089 ± 0.426 χ^2/NDF : 4721.6/22

+ sign -40.313 ± 0.257 χ^2/NDF : 26635.3/59

All: -30.489 ± 0.182 χ^2/NDF : 88066.2/120

- sign -20.721 ± 0.257 χ^2/NDF : 58527.4/60

diff_bpm0i02aX_rms vs Slug



Right In: 1453.849 $\pm$ 0.234 χ^2 /NDF: 266689.5/34

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF: 175762.3/24

Right Out: 1446.393 $\pm$ 0.228 χ^2 /NDF: 402616.5/37

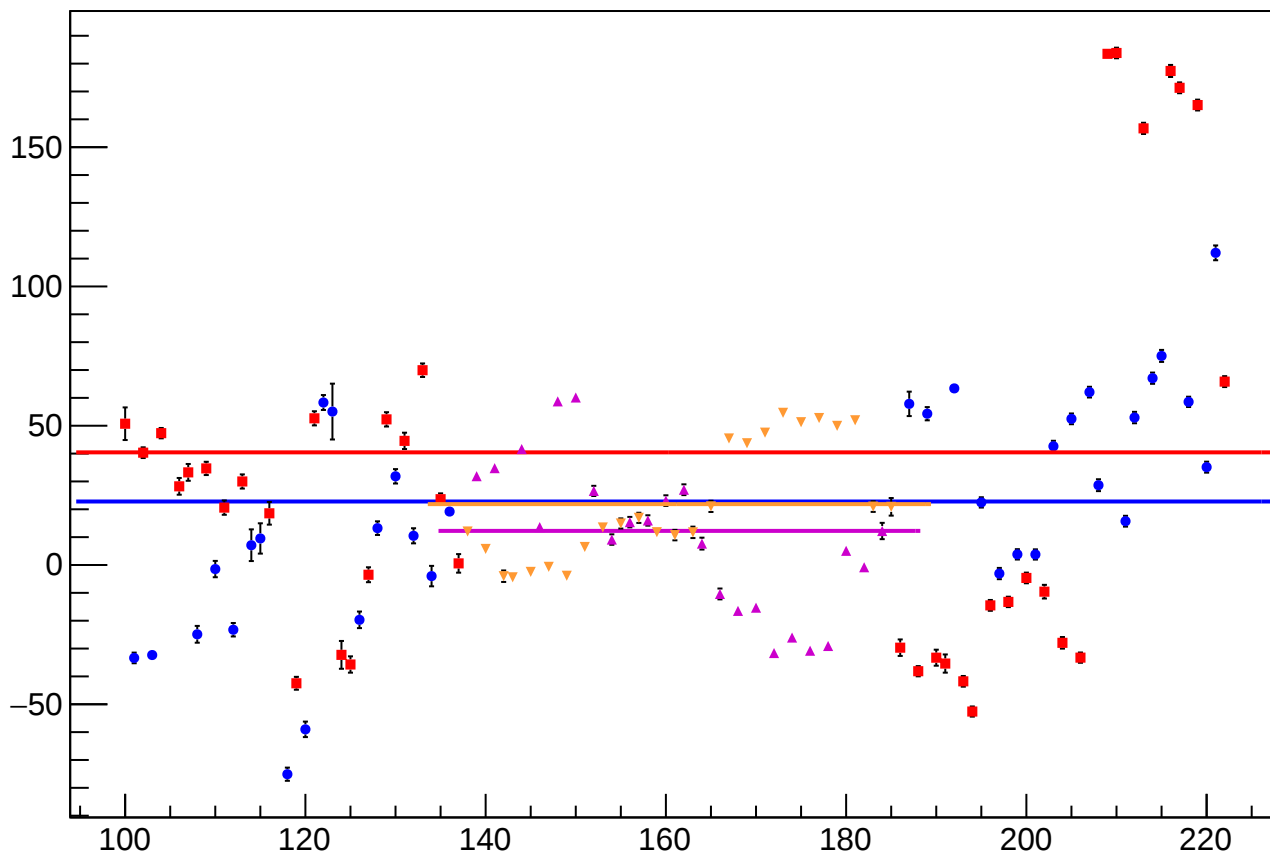
Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF: 187958.2/22

+ sign 1572.881 $\pm$ 0.182 χ^2 /NDF: 1100234.7/59

All: 1568.014 $\pm$ 0.129 χ^2 /NDF: 2416016.1/12

- sign 1563.175 $\pm$ 0.182 χ^2 /NDF: 1314356.1/60

diff_bpm0i02aY_mean vs Slug



Right In: 22.798 ± 0.381 χ^2/NDF : 10328.9/34

Left Out: 21.856 ± 0.335 χ^2/NDF : 4110.5/24

Right Out: 40.439 ± 0.369 χ^2/NDF : 45601.3/37

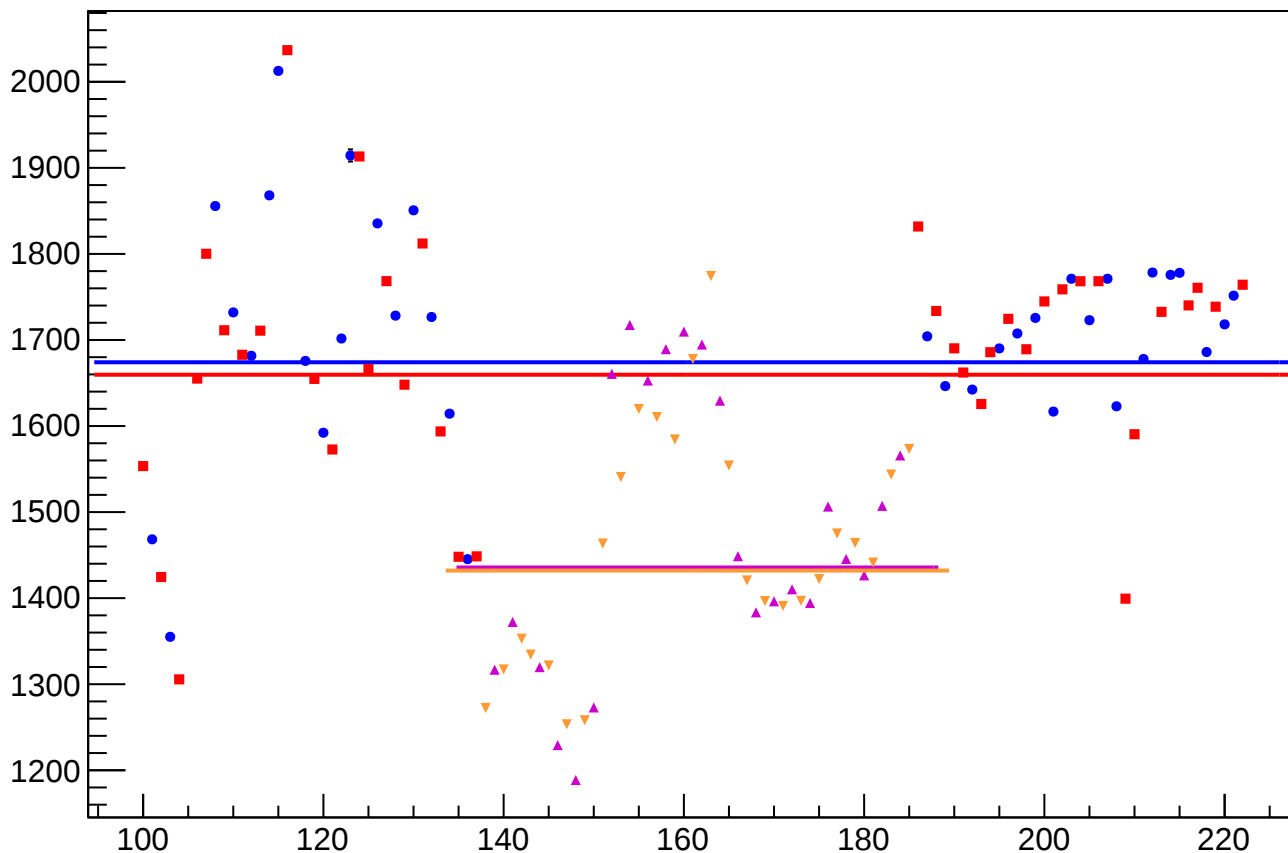
Left In: 12.246 ± 0.347 χ^2/NDF : 6781.6/22

+ sign 22.267 ± 0.252 χ^2/NDF : 14442.9/59

All: 23.867 ± 0.178 χ^2/NDF : 70005.0/120

- sign 25.481 ± 0.253 χ^2/NDF : 55481.0/60

diff_bpm0i02aY_rms vs Slug



Right In: 1674.093 $\pm$ 0.269 χ^2 /NDF: 201776.8/34

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1659.642 $\pm$ 0.261 χ^2 /NDF: 278492.6/37

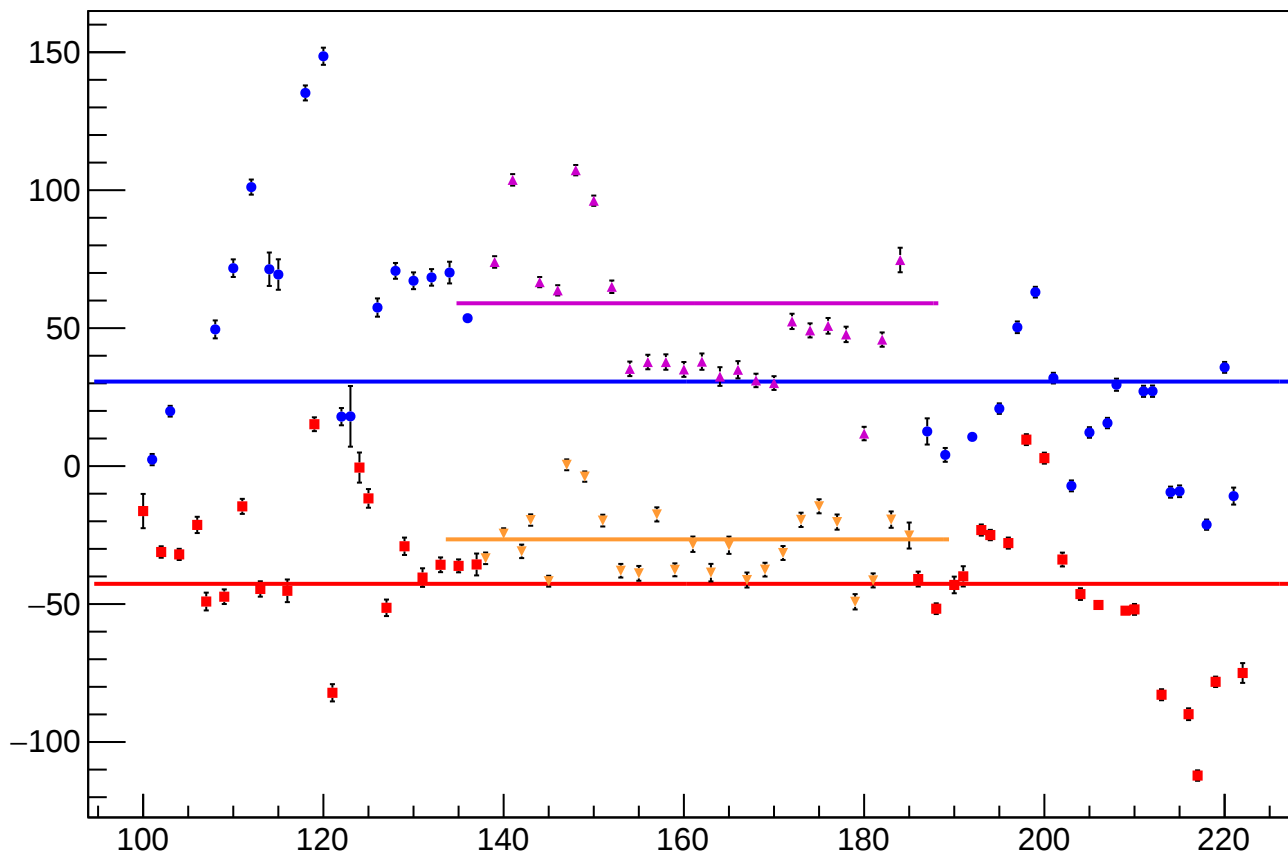
Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

+ sign 1537.734 $\pm$ 0.178 χ^2 /NDF: 954084.8/59

All: 1539.260 $\pm$ 0.126 χ^2 /NDF: 2044672.8/12

- sign 1540.798 $\pm$ 0.179 χ^2 /NDF: 1090440.5/60

diff_bpm0i05X_mean vs Slug



Right In: 30.637 ± 0.402 $\chi^2/\text{NDF}: 7816.0/34$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: -42.671 ± 0.393 $\chi^2/\text{NDF}: 5367.4/37$

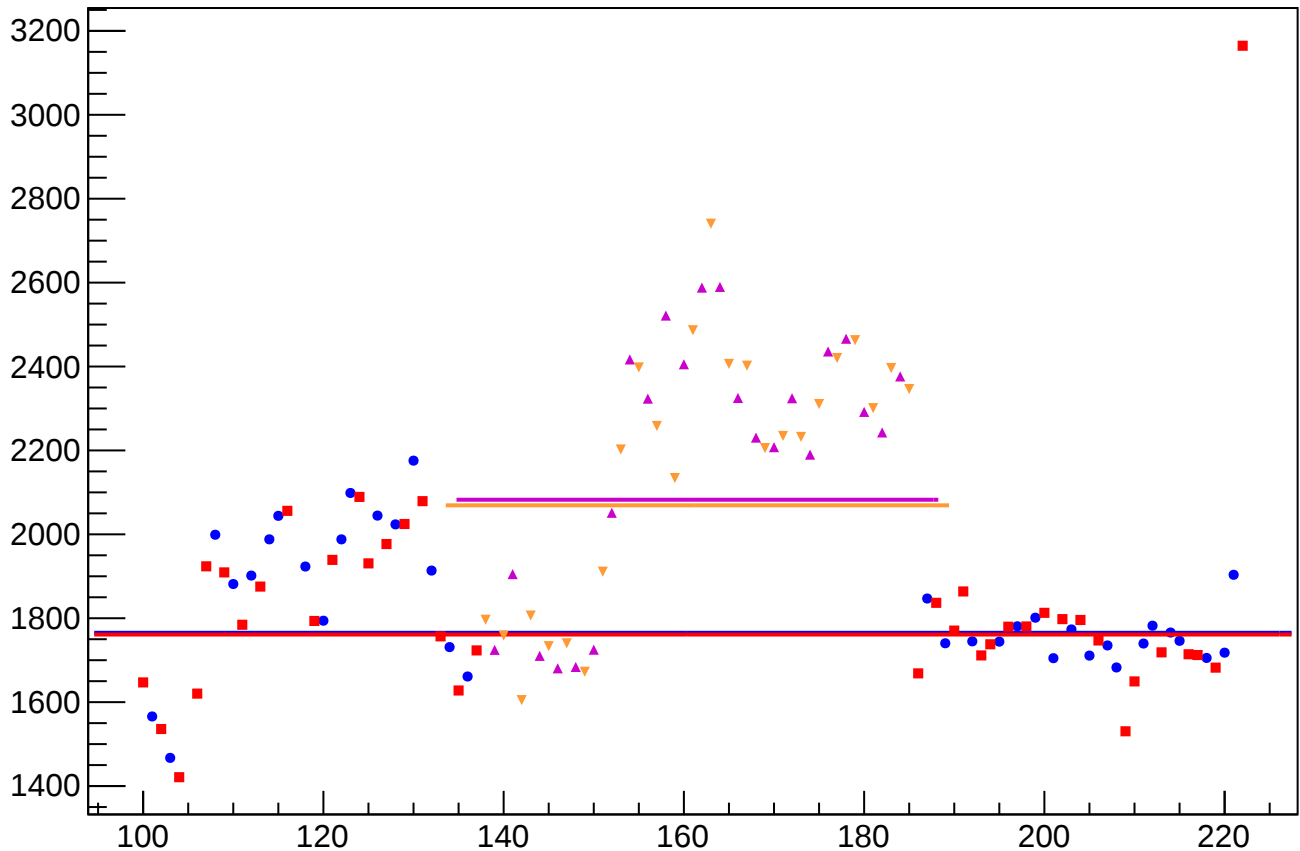
Left In: 59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

+ sign 7.508 ± 0.310 $\chi^2/\text{NDF}: 16718.2/59$

All: 1.532 ± 0.219 $\chi^2/\text{NDF}: 50776.2/120$

- sign -4.453 ± 0.310 $\chi^2/\text{NDF}: 33315.3/60$

diff_bpm0i05X_rms vs Slug



Right In: 1765.295+/-0.284 χ^2/NDF : 205878.6/34

Left Out: 2069.146+/-0.345 χ^2/NDF : 799037.9/24

Right Out: 1761.171+/-0.278 χ^2/NDF : 541569.0/37

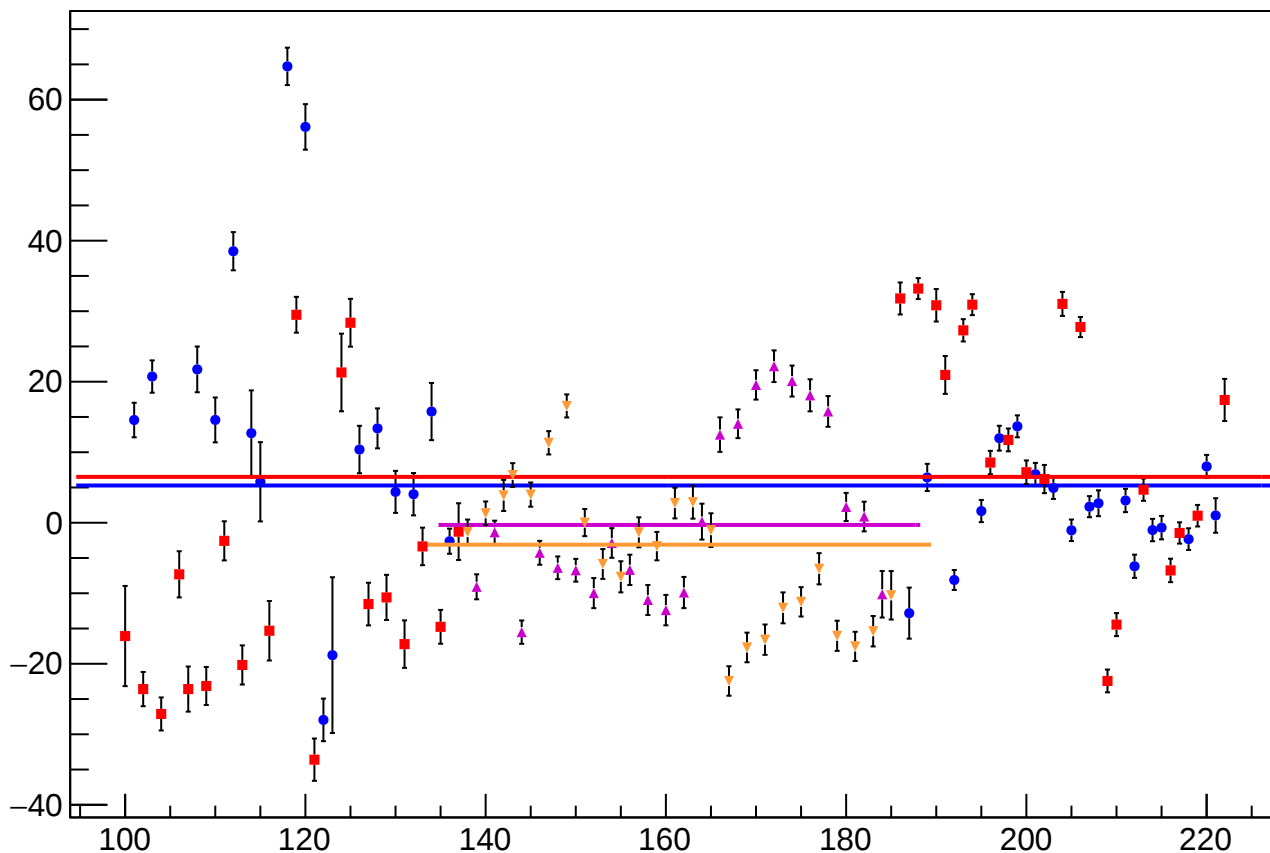
Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

+ sign 1888.177+/-0.219 χ^2/NDF : 1466981.4/59

All: 1885.060+/-0.155 χ^2/NDF : 3296821.1/12

- sign 1881.940+/-0.220 χ^2/NDF : 1829435.8/60

diff_bpm0i05Y_mean vs Slug



Right In: 5.282 ± 0.346 $\chi^2/\text{NDF}: 1456.5/34$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: 6.502 ± 0.341 $\chi^2/\text{NDF}: 3323.4/37$

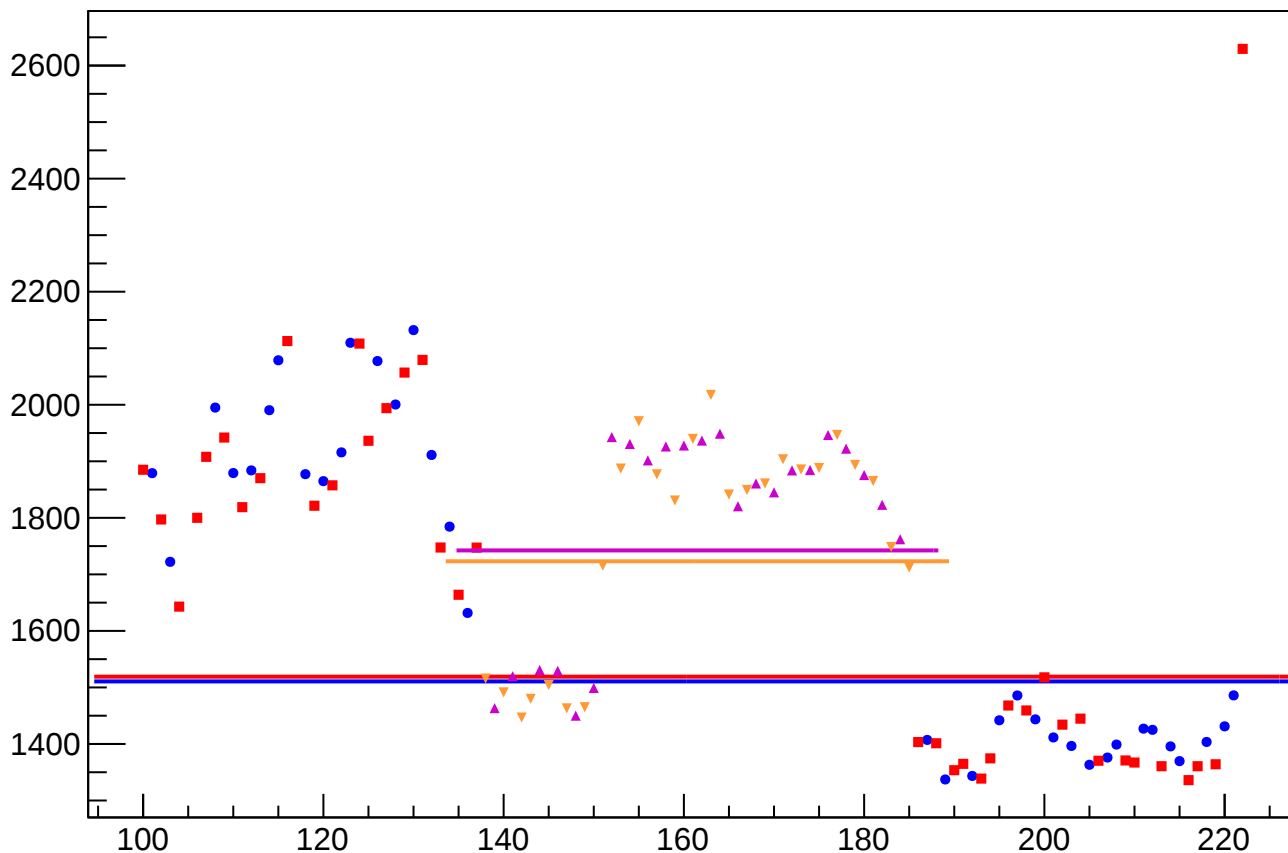
Left In: -0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

+ sign 1.727 ± 0.263 $\chi^2/\text{NDF}: 2348.8/59$

All: 2.757 ± 0.187 $\chi^2/\text{NDF}: 6597.6/120$

- sign 3.802 ± 0.265 $\chi^2/\text{NDF}: 4217.9/60$

diff_bpm0i05Y_rms vs Slug



Right In: 1510.656 $\pm$ 0.245 χ^2 /NDF: 730988.1/34

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF: 477441.1/24

Right Out: 1519.081 $\pm$ 0.241 χ^2 /NDF: 1033273.9/37

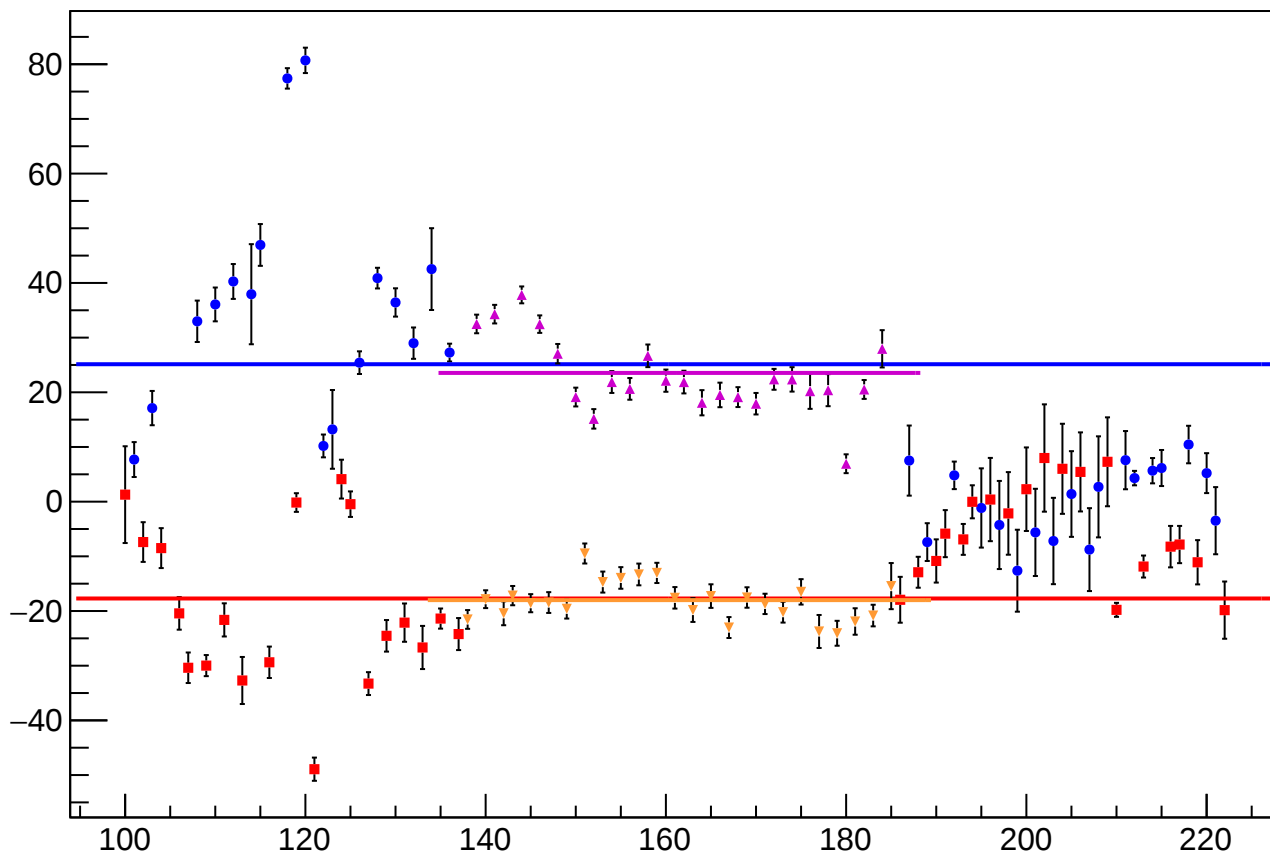
Left In: 1742.354 $\pm$ 0.298 χ^2 /NDF: 435841.5/22

+ sign 1600.655 $\pm$ 0.186 χ^2 /NDF: 1527084.0/59

All: 1604.076 $\pm$ 0.132 χ^2 /NDF: 3336386.0/12

- sign 1607.548 $\pm$ 0.187 χ^2 /NDF: 1808620.4/60

diff_bpm0i07X_mean vs Slug



Right In: 25.135 ± 0.505 $\chi^2/\text{NDF}: 2328.3/34$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: -17.710 ± 0.474 $\chi^2/\text{NDF}: 744.9/37$

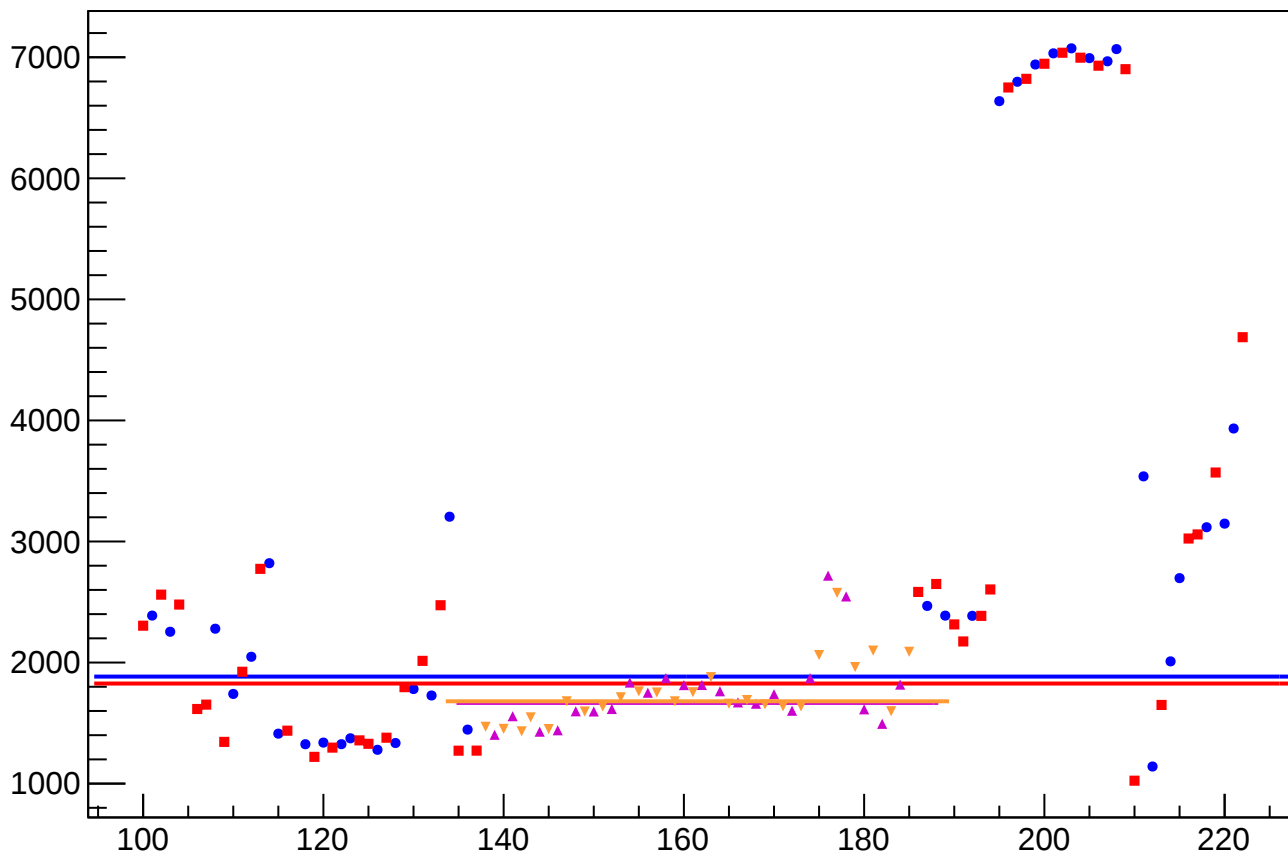
Left In: 23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

+ sign -1.553 ± 0.312 $\chi^2/\text{NDF}: 6913.3/59$

All: 2.323 ± 0.219 $\chi^2/\text{NDF}: 12681.8/120$

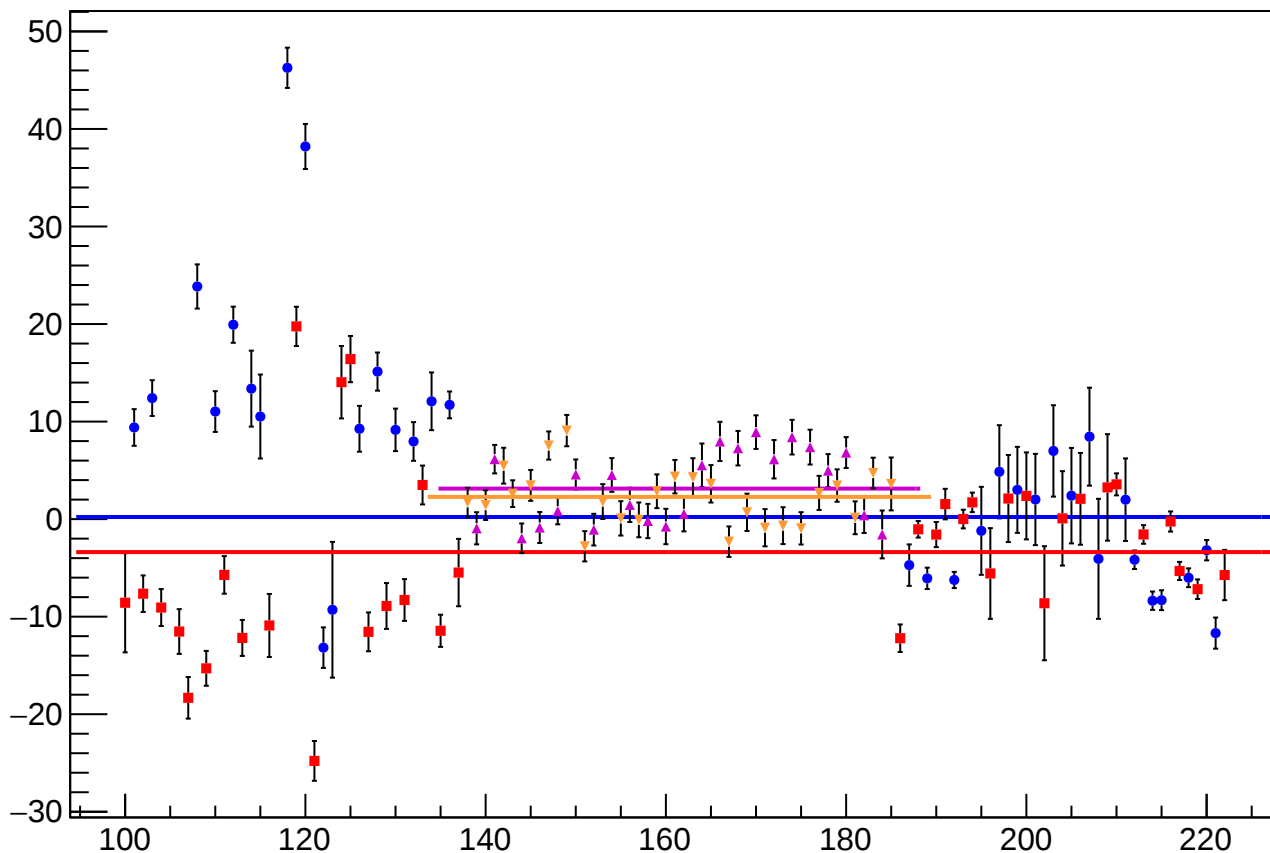
- sign 6.106 ± 0.308 $\chi^2/\text{NDF}: 5463.6/60$

diff_bpm0i07X_rms vs Slug



Right In: 1884.087 ± 0.357 $\chi^2/\text{NDF}: 9558323.9/34$ + sign 1757.726 ± 0.221 $\chi^2/\text{NDF}: 10283393.9/59$
 Left Out: 1679.814 ± 0.281 $\chi^2/\text{NDF}: 522795.6/24$ All: 1745.907 ± 0.155 $\chi^2/\text{NDF}: 20866009.6/1$
 Right Out: 1826.627 ± 0.335 $\chi^2/\text{NDF}: 9794745.0/37$ - sign 1734.373 ± 0.218 $\chi^2/\text{NDF}: 10576944.6/60$
 Left In: 1666.819 ± 0.287 $\chi^2/\text{NDF}: 650990.8/22$

diff_bpm0i07Y_mean vs Slug



Right In: 0.216 ± 0.287 $\chi^2/\text{NDF}: 1725.8/34$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: -3.381 ± 0.263 $\chi^2/\text{NDF}: 724.1/37$

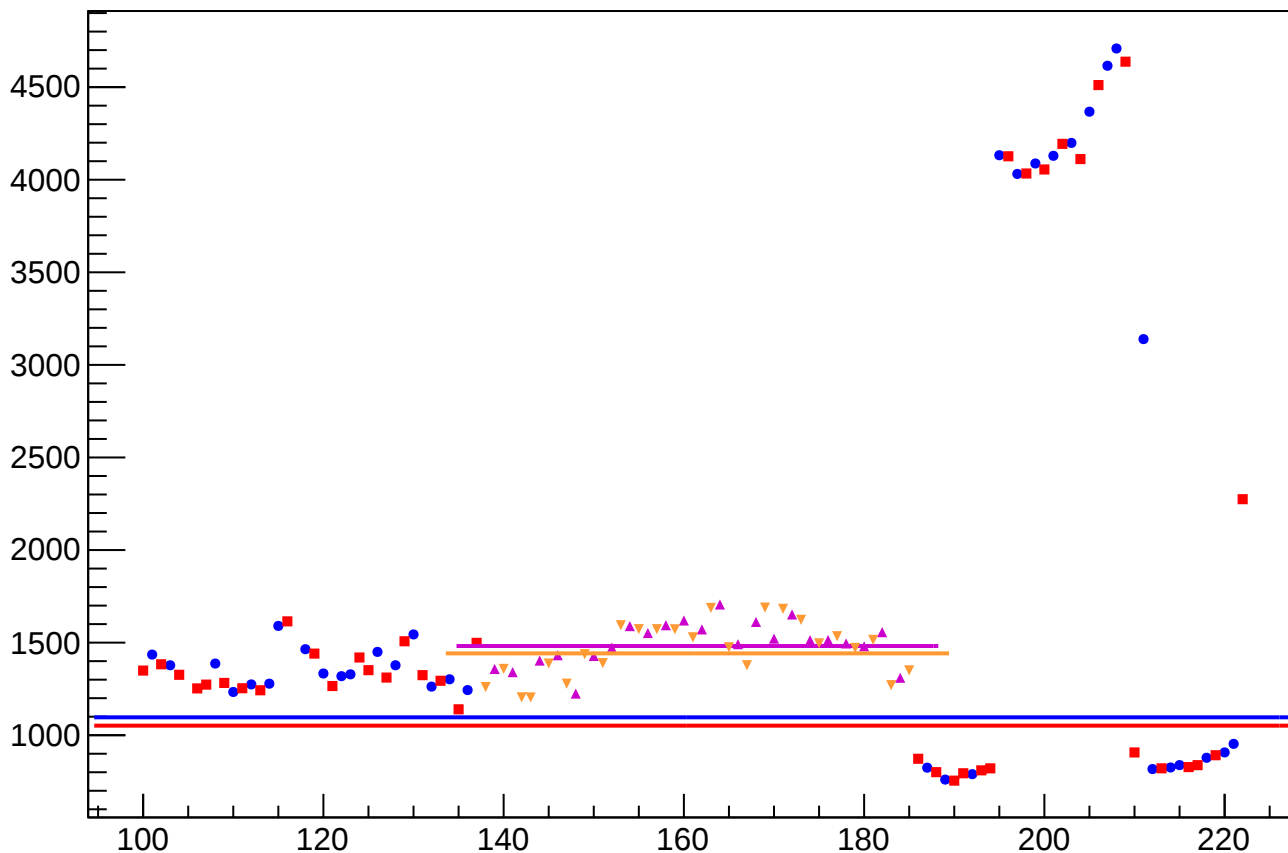
Left In: 3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

+ sign 1.080 ± 0.219 $\chi^2/\text{NDF}: 1823.1/59$

All: -0.046 ± 0.152 $\chi^2/\text{NDF}: 2917.0/120$

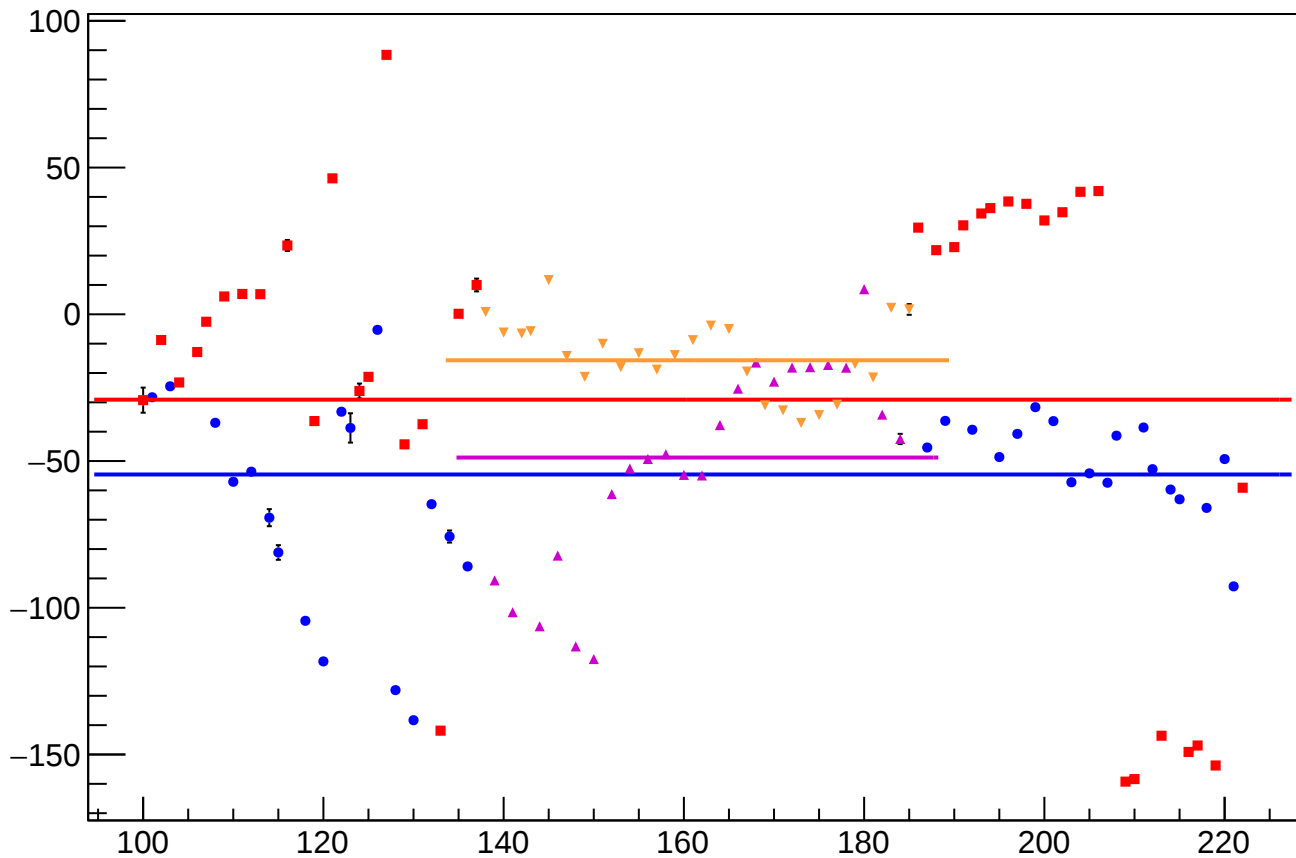
- sign -1.100 ± 0.212 $\chi^2/\text{NDF}: 1042.7/60$

diff_bpm0i07Y_rms vs Slug



Right In: 1096.667 $\pm$ 0.203	χ^2 /NDF: 9005479.6/34	+ sign 1241.195 $\pm$ 0.155	χ^2 /NDF: 10587852.4/59
Left Out: 1441.951 $\pm$ 0.239	χ^2 /NDF: 370617.4/24	All: 1221.119 $\pm$ 0.108	χ^2 /NDF: 20801314.7/1
Right Out: 1051.612 $\pm$ 0.186	χ^2 /NDF: 8093631.4/37	- sign 1202.328 $\pm$ 0.150	χ^2 /NDF: 10180874.0/60
Left In: 1481.695 $\pm$ 0.253	χ^2 /NDF: 208470.6/22		

diff_bpm1i02X_mean vs Slug



Right In: -54.582 ± 0.161 χ^2/NDF : 19775.9/34

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: -29.085 ± 0.157 χ^2/NDF : 266781.9/37

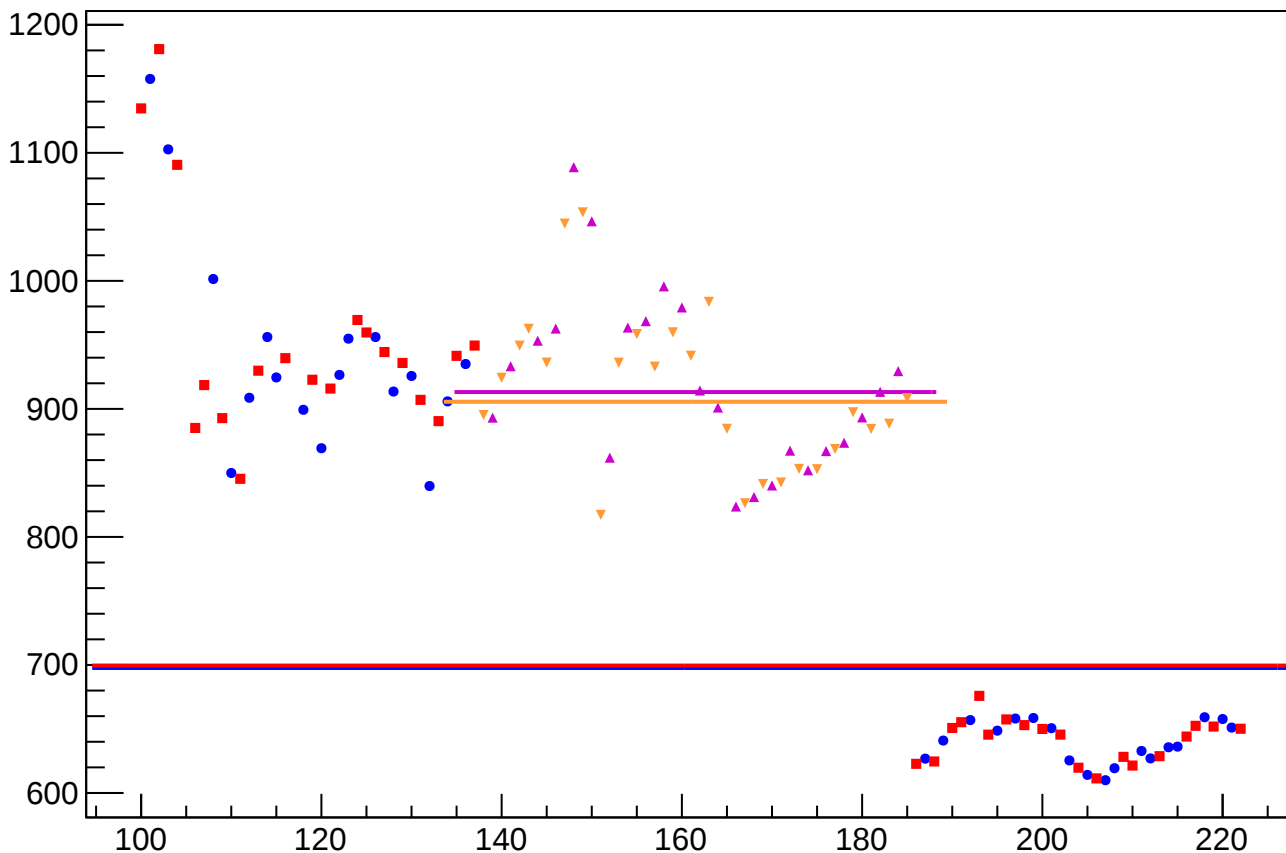
Left In: -48.812 ± 0.220 χ^2/NDF : 25260.8/22

+ sign -40.348 ± 0.128 χ^2/NDF : 44763.7/59

All: -38.055 ± 0.090 χ^2/NDF : 342773.9/120

- sign -35.762 ± 0.128 χ^2/NDF : 297367.8/60

diff_bpm1i02X_rms vs Slug



Right In: 697.665 $\pm$ 0.114 χ^2 /NDF: 1201386.5/34

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF:162073.5/24

Right Out: 699.521 $\pm$ 0.111 χ^2 /NDF: 1259901.1/37

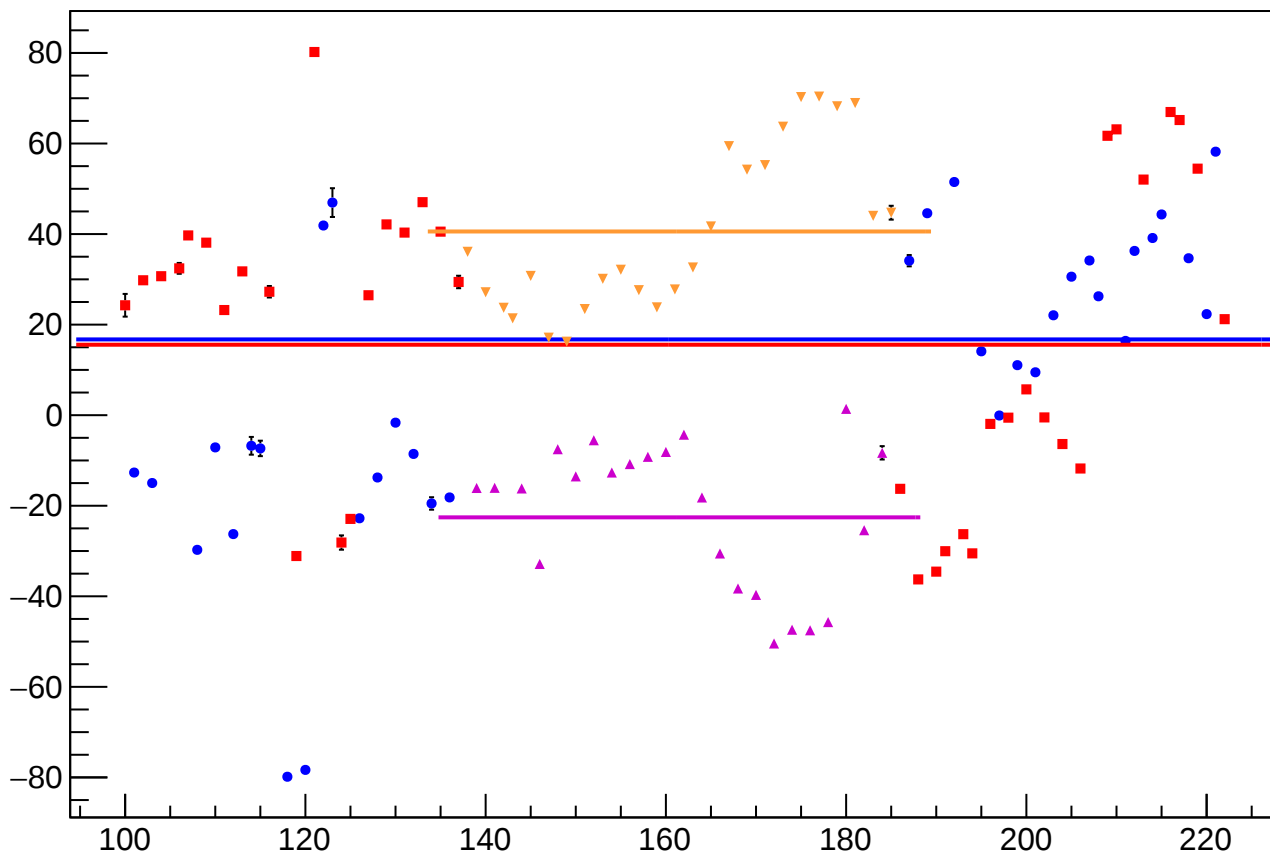
Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

+ sign 773.712 $\pm$ 0.090 χ^2 /NDF: 2589110.8/59

All: 772.773 $\pm$ 0.064 χ^2 /NDF: 5272800.8/120

- sign 771.835 $\pm$ 0.090 χ^2 /NDF: 2683474.5/60

diff_bpm1i02Y_mean vs Slug



Right In: 16.735+/-0.121 χ^2/NDF : 52874.8/34

Left Out: 40.573+/-0.168 χ^2/NDF :12079.0/24

Right Out: 15.563+/-0.117 χ^2/NDF : 90058.7/37

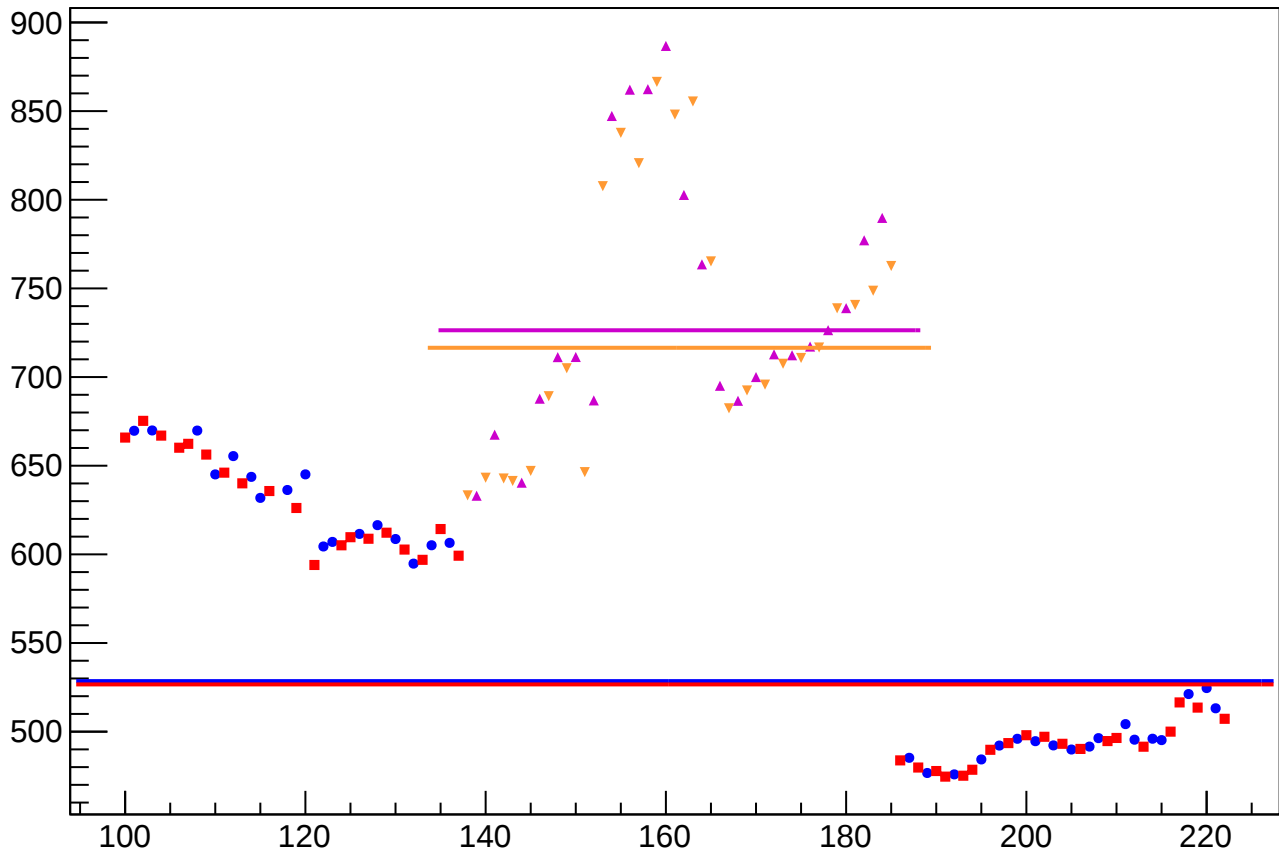
Left In: -22.565+/-0.175 χ^2/NDF :8167.7/22

+ sign 24.847+/-0.098 χ^2/NDF : 78261.2/59

All: 14.262+/-0.069 χ^2/NDF : 232441.7/120

- sign 3.765+/-0.098 χ^2/NDF : 130901.8/60

diff_bpm1i02Y_rms vs Slug



Right In: 528.510 $\pm$ 0.085 χ^2 /NDF: 500480.8/34

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24

Right Out: 526.649 $\pm$ 0.083 χ^2 /NDF: 544570.5/37

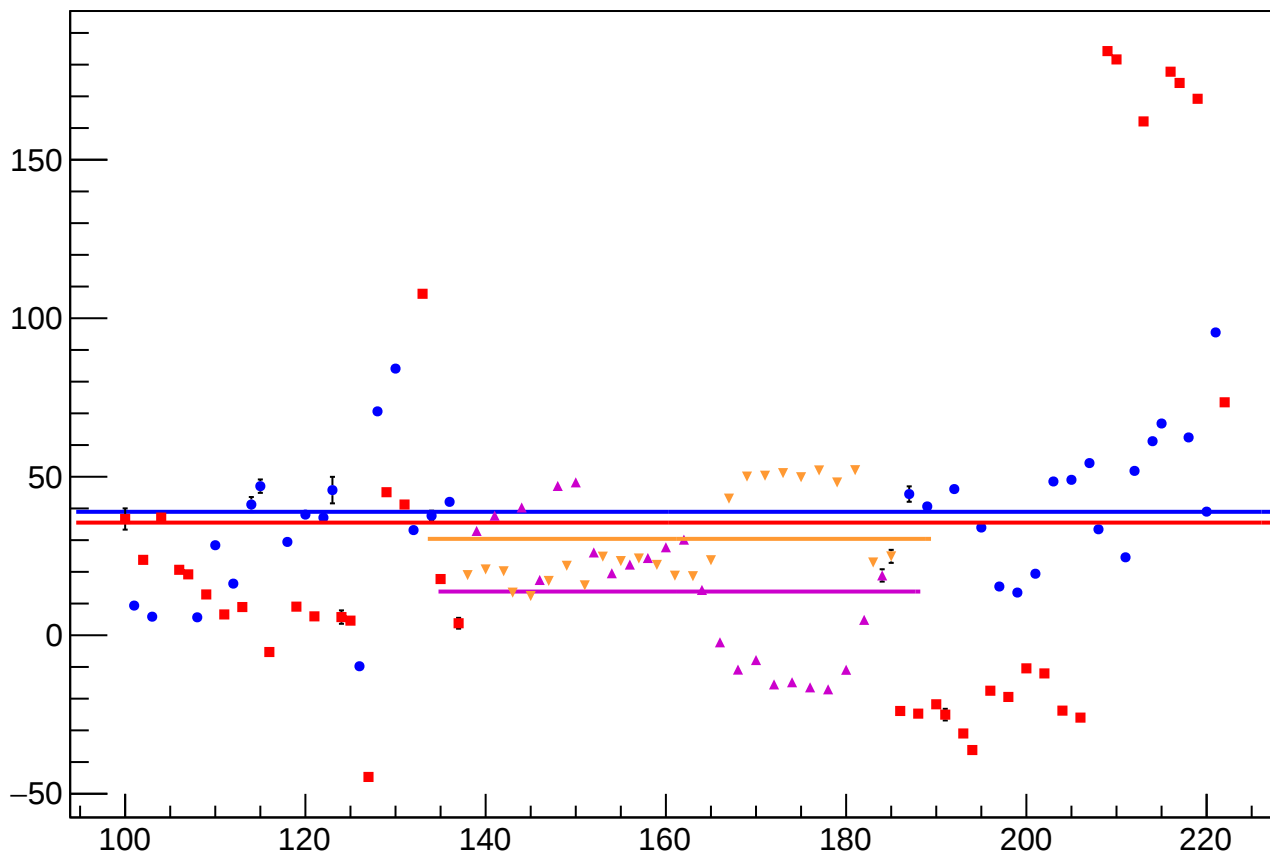
Left In: 726.390 $\pm$ 0.124 χ^2 /NDF: 289788.8/22

+ sign 592.489 $\pm$ 0.069 χ^2 /NDF: 2498701.7/59

All: 590.464 $\pm$ 0.049 χ^2 /NDF: 5128245.7/120

- sign 588.455 $\pm$ 0.069 χ^2 /NDF: 2627839.3/60

diff_bpm1i04X_mean vs Slug



Right In: 38.941 $\pm$ 0.199 χ^2 /NDF: 11941.5/34

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF:3808.0/24

Right Out: 35.535 $\pm$ 0.194 χ^2 /NDF: 141580.1/37

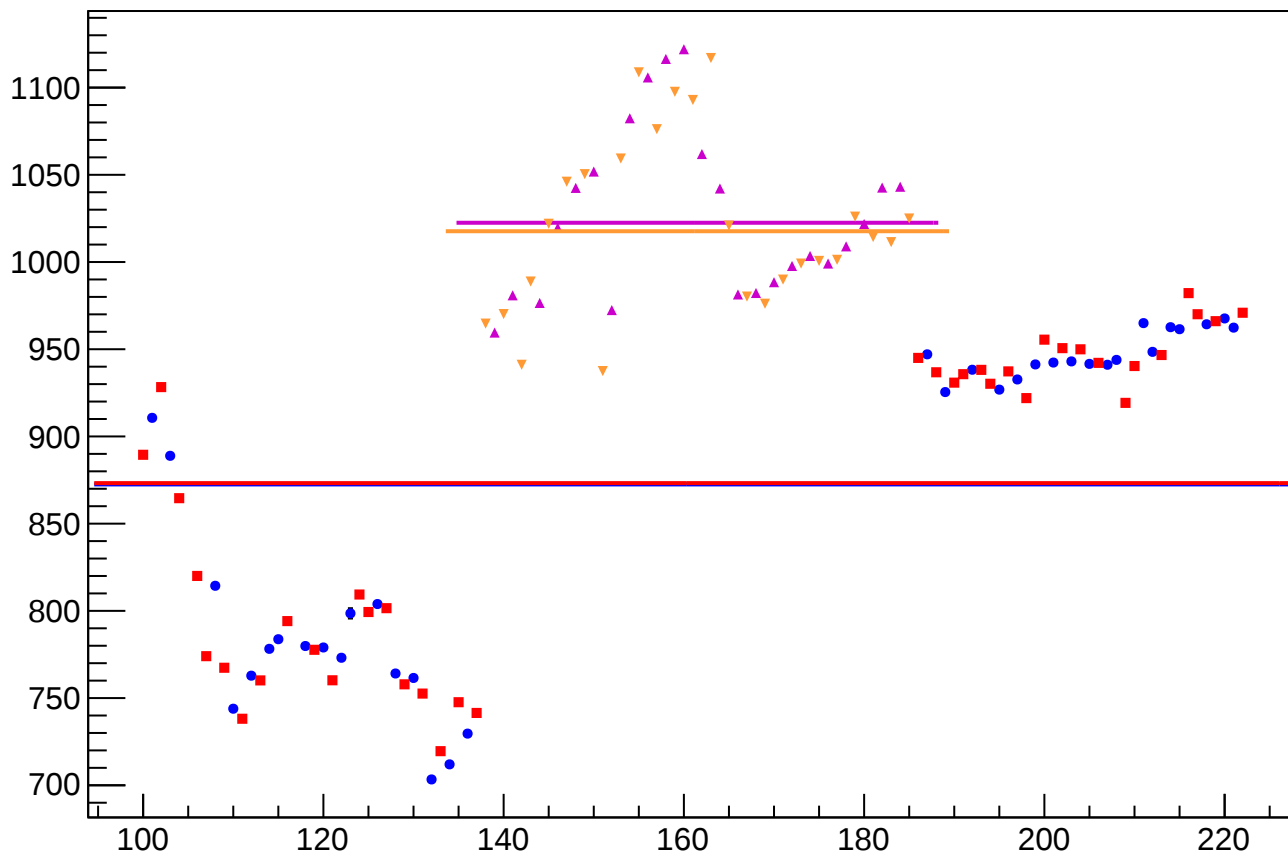
Left In: 13.787 $\pm$ 0.246 χ^2 /NDF:7979.7/22

+ sign 35.423 $\pm$ 0.152 χ^2 /NDF: 16508.7/59

All: 31.298 $\pm$ 0.108 χ^2 /NDF: 172350.5/120

- sign 27.174 $\pm$ 0.152 χ^2 /NDF: 154377.7/60

diff_bpm1i04X_rms vs Slug



Right In: 872.488 $\pm$ 0.141 χ^2 /NDF: 432762.2/34

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 873.242 $\pm$ 0.137 χ^2 /NDF: 420386.6/37

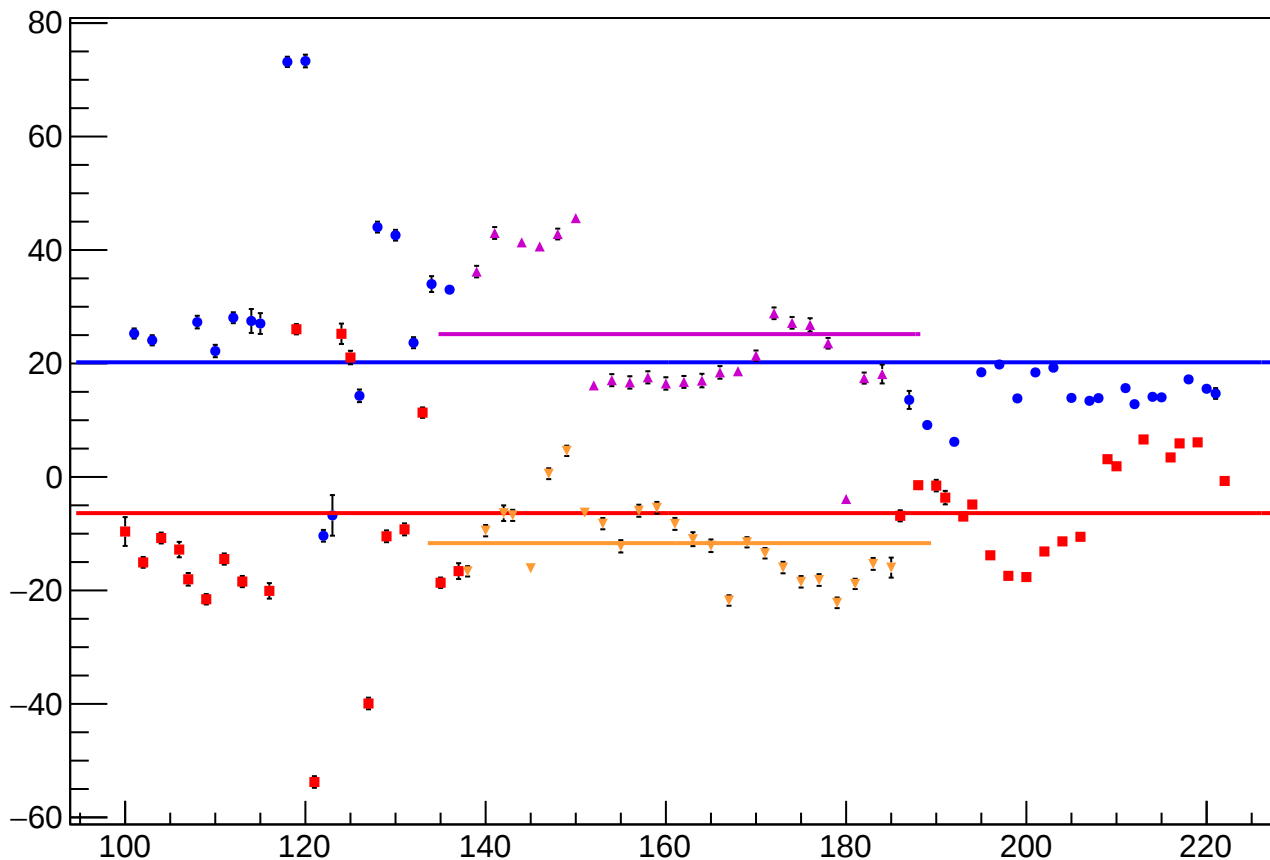
Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF:69635.5/22

+ sign 932.344 $\pm$ 0.108 χ^2 /NDF: 955844.1/59

All: 931.485 $\pm$ 0.076 χ^2 /NDF: 1899913.2/120

- sign 930.627 $\pm$ 0.108 χ^2 /NDF: 943942.1/60

diff_bpm1i04Y_mean vs Slug



Right In: 20.209 $\pm$ 0.140 χ^2 /NDF: 9927.2/34

Left Out: -11.664 $\pm$ 0.200 χ^2 /NDF: 1147.4/24

Right Out: -6.372 $\pm$ 0.136 χ^2 /NDF: 9417.3/37

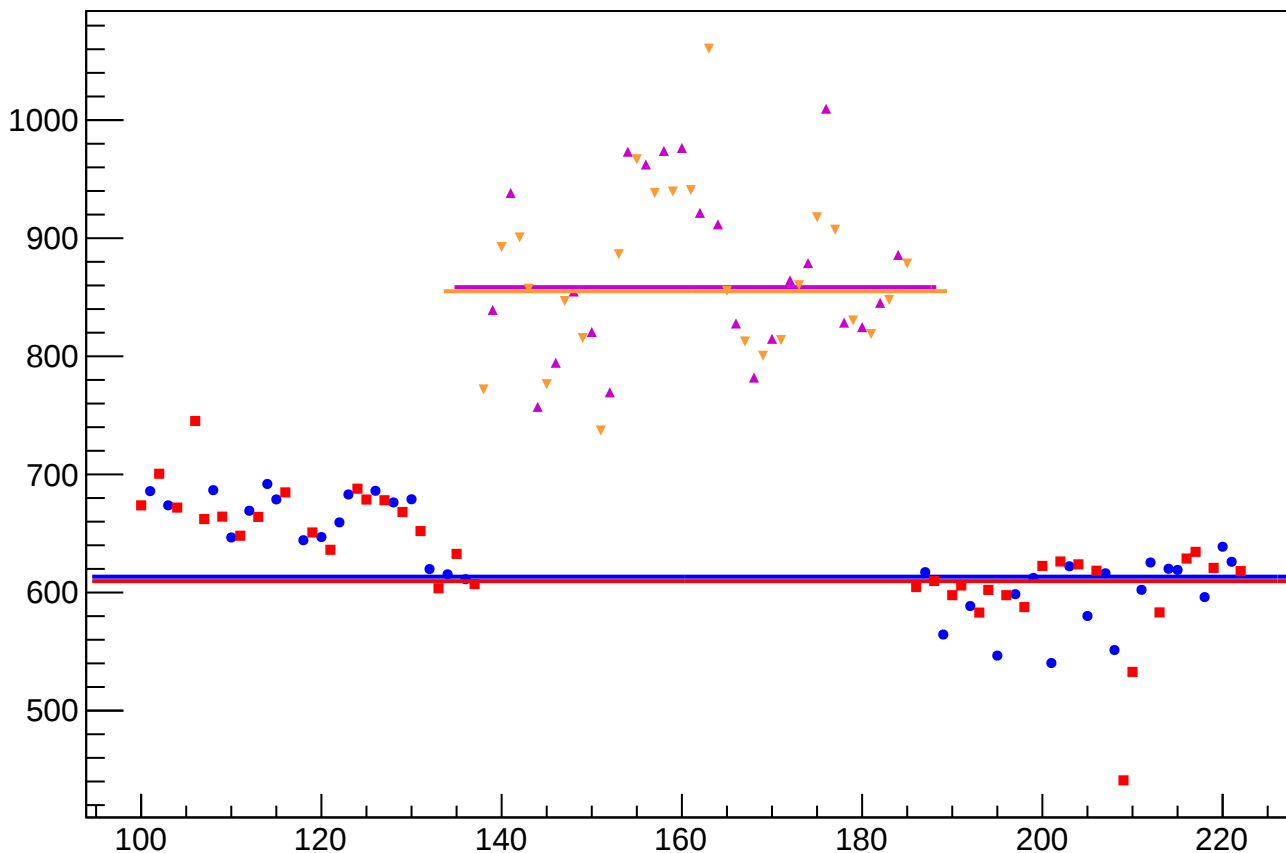
Left In: 25.174 $\pm$ 0.207 χ^2 /NDF: 3747.1/22

+ sign 9.776 $\pm$ 0.115 χ^2 /NDF: 28109.7/59

All: 6.402 $\pm$ 0.081 χ^2 /NDF: 59192.1/120

- sign 3.089 $\pm$ 0.114 χ^2 /NDF: 29364.6/60

diff_bpm1i04Y_rms vs Slug



Right In: 613.426+/-0.099 χ^2/NDF : 169423.9/34

Left Out: 855.131+/-0.142 χ^2/NDF : 233746.7/24

Right Out: 609.649+/-0.096 χ^2/NDF : 367173.0/37

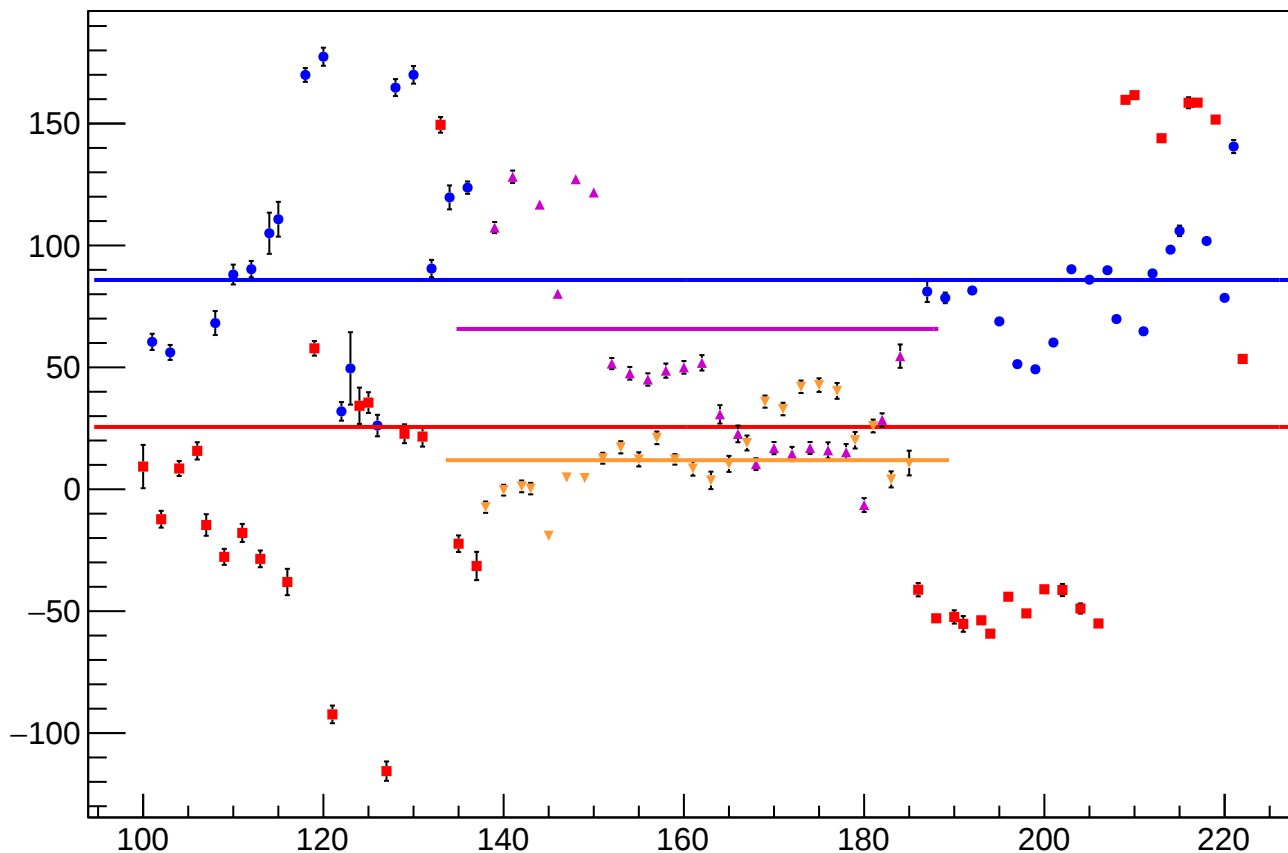
Left In: 858.563+/-0.147 χ^2/NDF : 239019.8/22

+ sign 692.545+/-0.081 χ^2/NDF : 2362515.1/59

All: 688.387+/-0.057 χ^2/NDF : 4991215.2/120

- sign 684.303+/-0.080 χ^2/NDF : 2623480.7/60

diff_bpm1i06X_mean vs Slug



Right In: 85.846 $\pm$ 0.416 χ^2 /NDF: 5239.6/34

Left Out: 11.938 $\pm$ 0.505 χ^2 /NDF: 976.6/24

Right Out: 25.559 $\pm$ 0.401 χ^2 /NDF: 53270.3/37

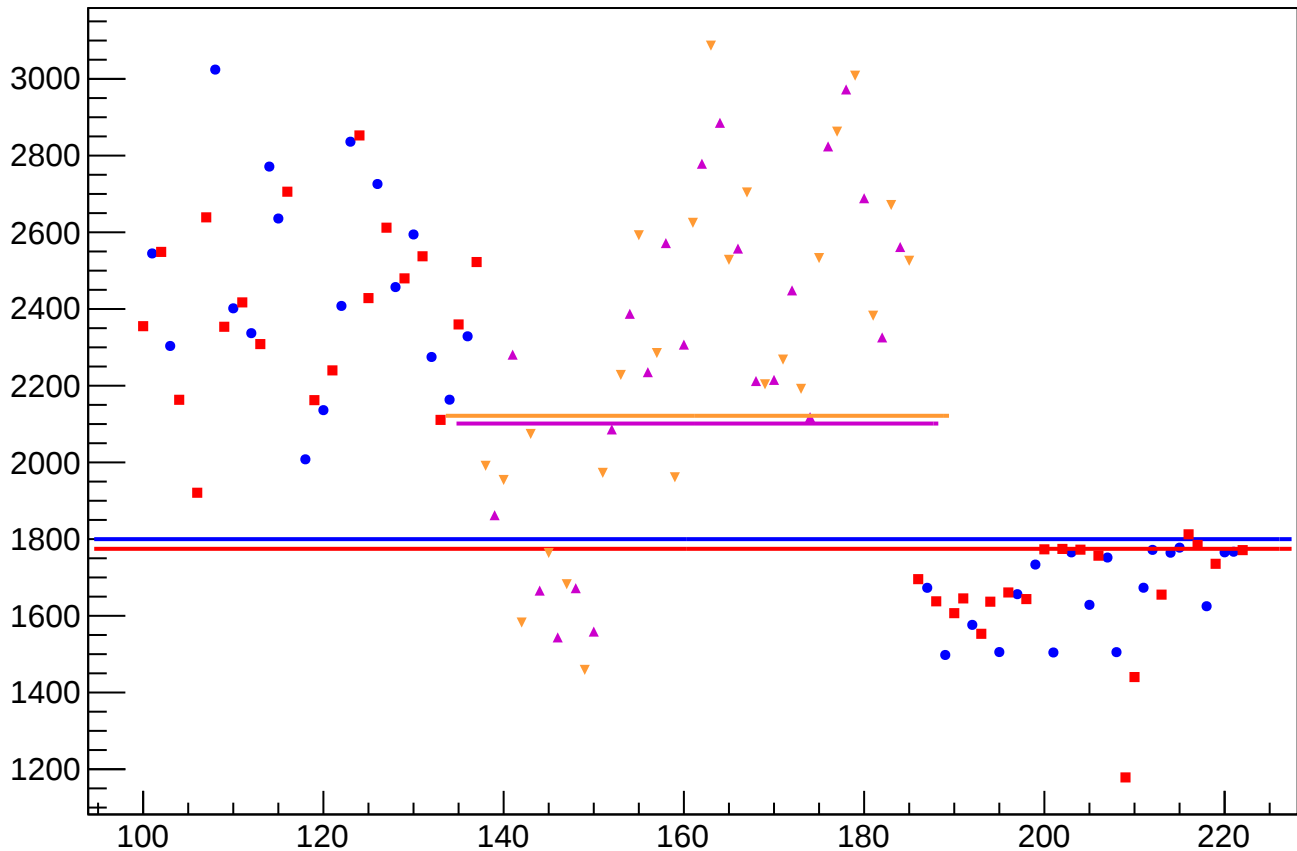
Left In: 65.752 $\pm$ 0.518 χ^2 /NDF: 7335.8/22

+ sign 55.960 $\pm$ 0.321 χ^2 /NDF: 18957.9/59

All: 48.203 $\pm$ 0.226 χ^2 /NDF: 84480.1/120

- sign 40.645 $\pm$ 0.317 χ^2 /NDF: 64371.5/60

diff_bpm1i06X_rms vs Slug



Right In: 1799.900 $\pm$ 0.294 χ^2 /NDF: 1203464.9/34

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 1774.667 $\pm$ 0.284 χ^2 /NDF: 1478857.6/37

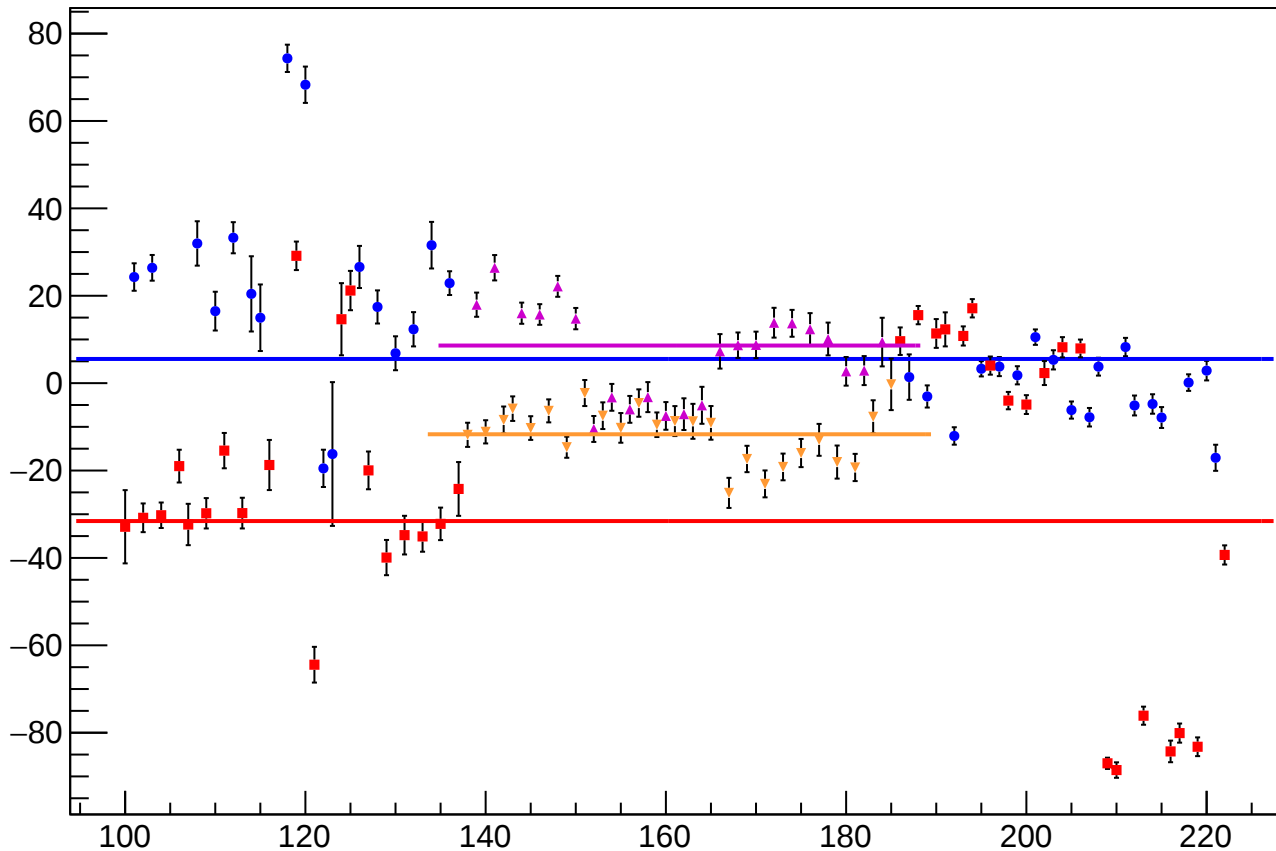
Left In: 2101.325 $\pm$ 0.366 χ^2 /NDF:1360518.3/22

+ sign 1929.970 $\pm$ 0.227 χ^2 /NDF: 3074032.0/59

All: 1913.410 $\pm$ 0.160 χ^2 /NDF: 6421324.4/12

- sign 1897.277 $\pm$ 0.224 χ^2 /NDF: 3336805.4/60

diff_bpm1i06Y_mean vs Slug



Right In: 5.535 ± 0.452 χ^2/NDF : 1352.2/34

Left Out: -11.700 ± 0.625 χ^2/NDF : 85.0/24

Right Out: -31.560 ± 0.435 χ^2/NDF : 8867.8/37

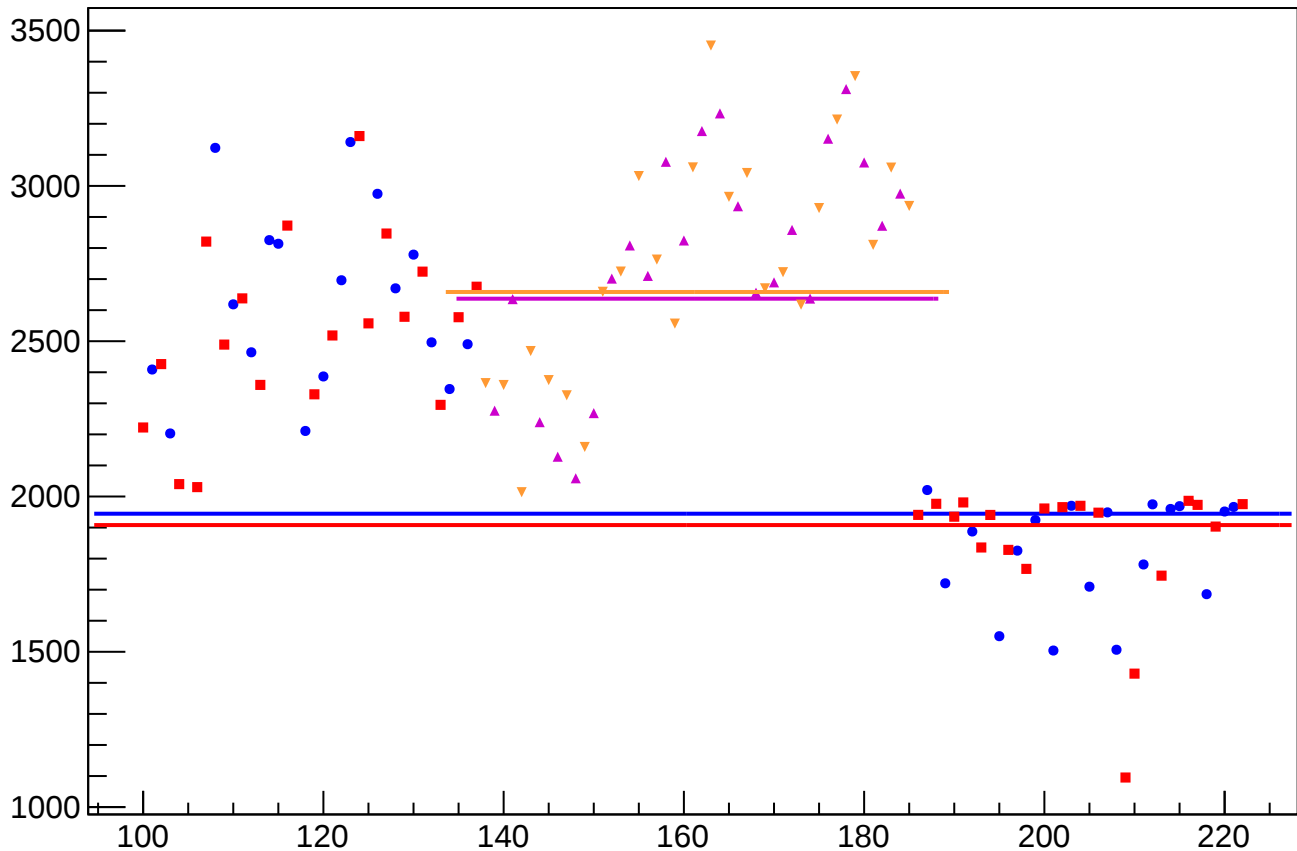
Left In: 8.606 ± 0.642 χ^2/NDF : 264.2/22

+ sign -0.378 ± 0.366 χ^2/NDF : 1936.1/59

All: -9.825 ± 0.257 χ^2/NDF : 15059.4/120

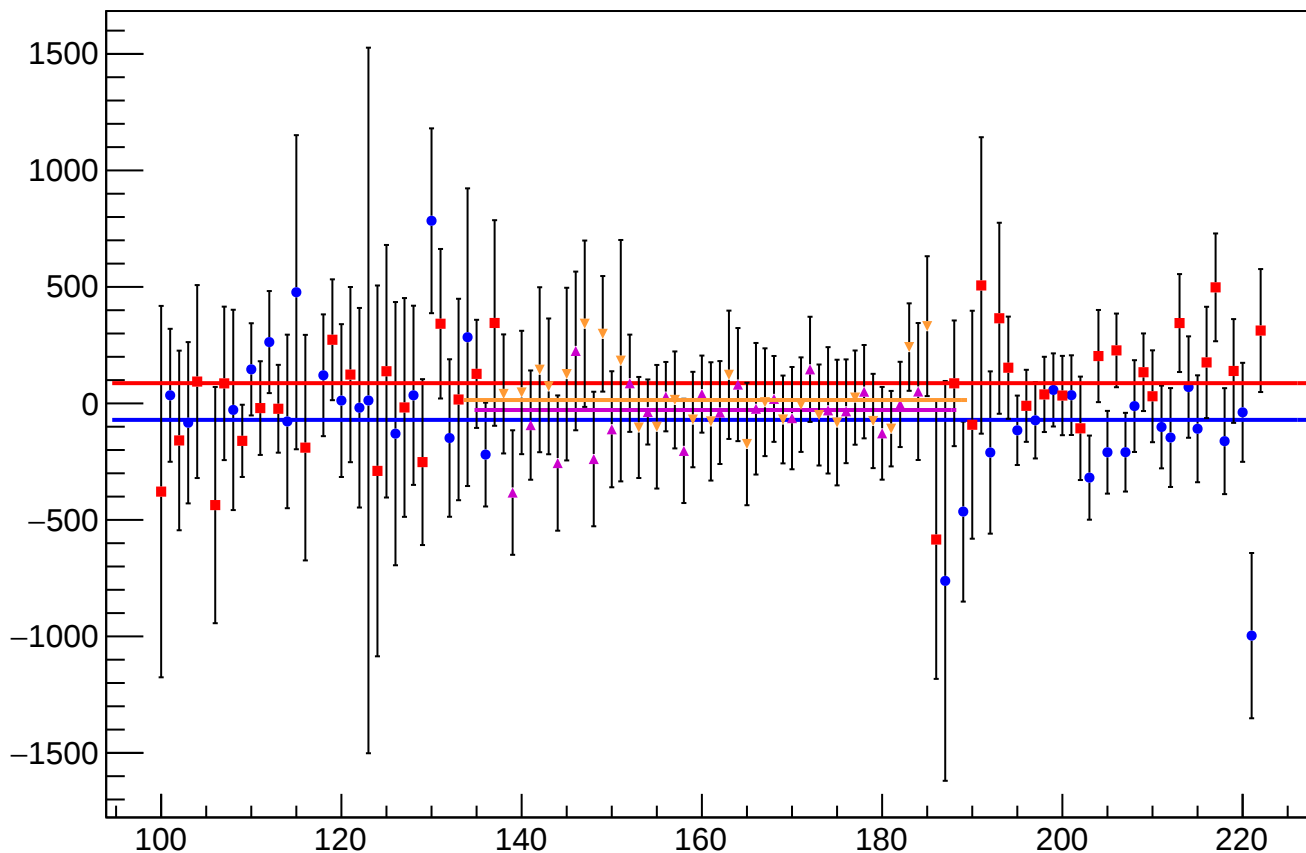
- sign -18.939 ± 0.360 χ^2/NDF : 11816.9/60

diff_bpm1i06Y_rms vs Slug



Right In: 1944.588+/-0.320	χ^2/NDF : 1220792.8/34	+ sign 2189.515+/-0.259	χ^2/NDF : 3550659.2/59
Left Out: 2658.486+/-0.442	χ^2/NDF : 618133.8/24	All: 2162.811+/-0.182	χ^2/NDF : 7822883.1/12
Right Out: 1908.010+/-0.307	χ^2/NDF : 1830212.5/37	- sign 2137.047+/-0.254	χ^2/NDF : 4251344.7/60
Left In: 2636.885+/-0.454	χ^2/NDF : 652894.5/22		

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: -70.690 $\pm$ 40.847 χ^2/NDF : 24.4/34

Left Out: 14.520 $\pm$ 47.528 χ^2/NDF : 7.8/24

Right Out: 86.891 $\pm$ 40.496 χ^2/NDF : 18.7/37

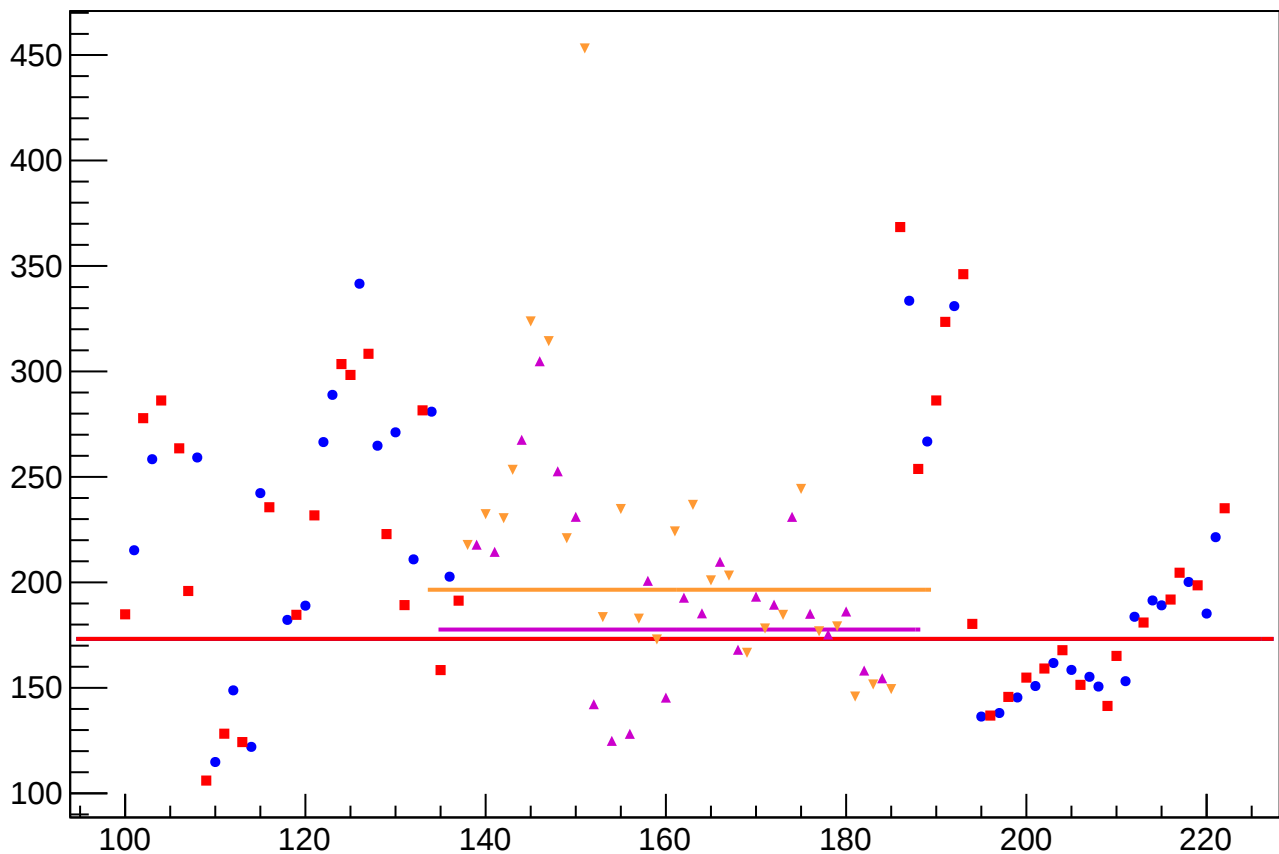
Left In: -28.310 $\pm$ 44.638 χ^2/NDF : 6.3/22

+ sign -34.490 $\pm$ 30.979 χ^2/NDF : 34.0/59

All: 1.317 $\pm$ 21.548 χ^2/NDF : 65.2/120

- sign 34.882 $\pm$ 29.993 χ^2/NDF : 28.6/60

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 173.182 $\pm$ 0.029 χ^2 /NDF: 2249985.6/34

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF: 1789504.4/24

Right Out: 173.222 $\pm$ 0.029 χ^2 /NDF: 3043343.8/37

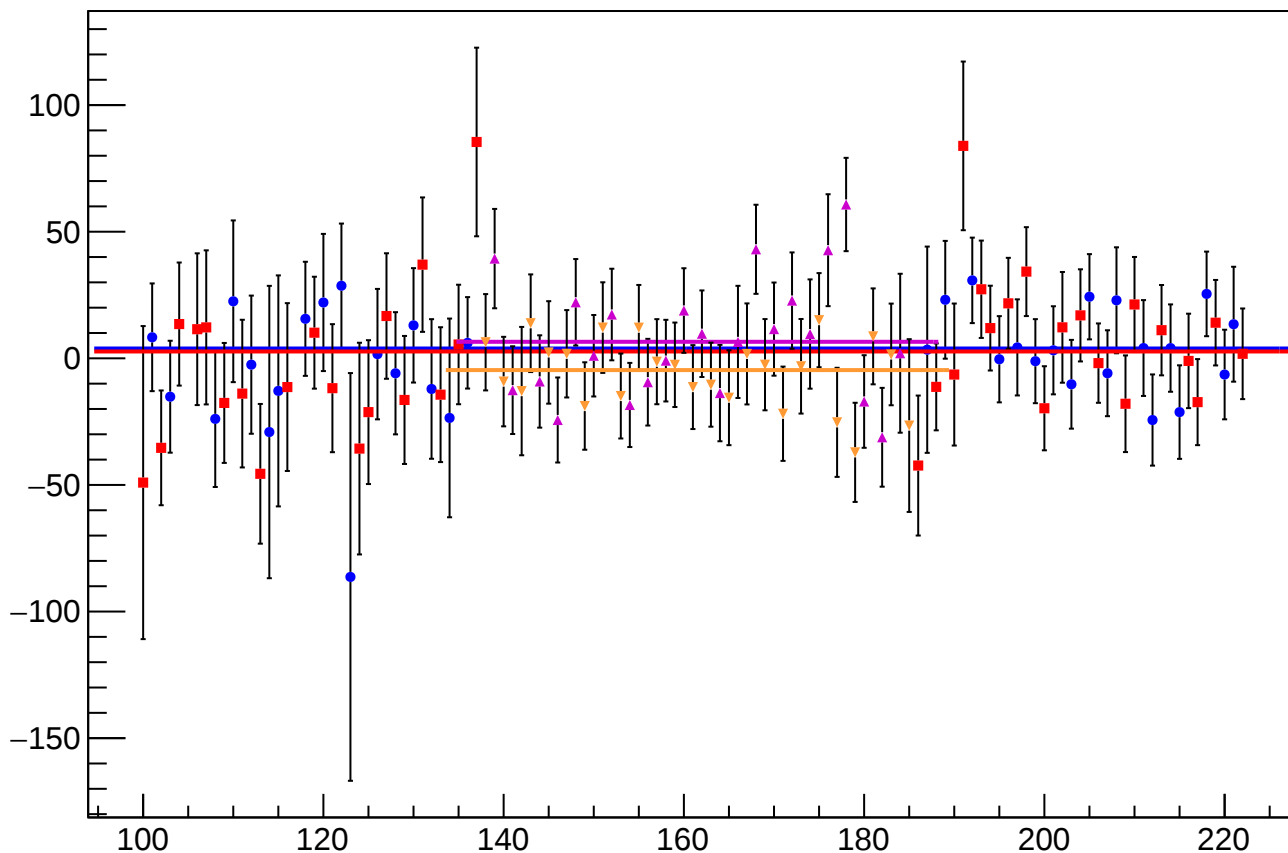
Left In: 177.643 $\pm$ 0.032 χ^2 /NDF: 1630664.5/22

+ sign 183.094 $\pm$ 0.022 χ^2 /NDF: 4316707.4/59

All: 179.029 $\pm$ 0.015 χ^2 /NDF: 9068208.2/120

- sign 175.218 $\pm$ 0.021 χ^2 /NDF: 4684769.8/60

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 3.875 ± 3.612 $\chi^2/\text{NDF}: 20.0/34$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: 2.703 ± 3.552 $\chi^2/\text{NDF}: 40.7/37$

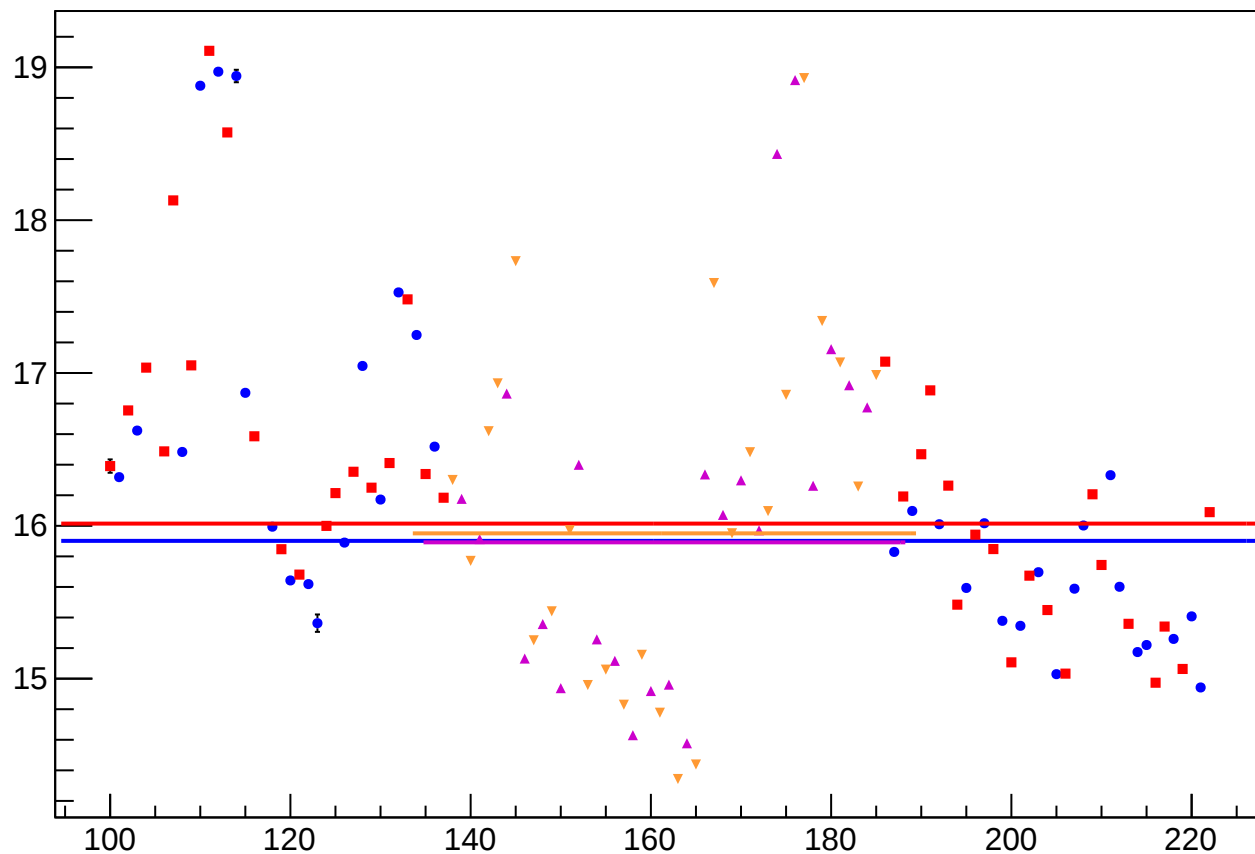
Left In: 6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

+ sign -0.250 ± 2.594 $\chi^2/\text{NDF}: 34.8/59$

All: 2.102 ± 1.838 $\chi^2/\text{NDF}: 114.1/120$

- sign 4.472 ± 2.604 $\chi^2/\text{NDF}: 77.7/60$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 15.902 $\pm$ 0.003 χ^2 /NDF: 97341.1/34

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.015 $\pm$ 0.003 χ^2 /NDF: 111033.7/37

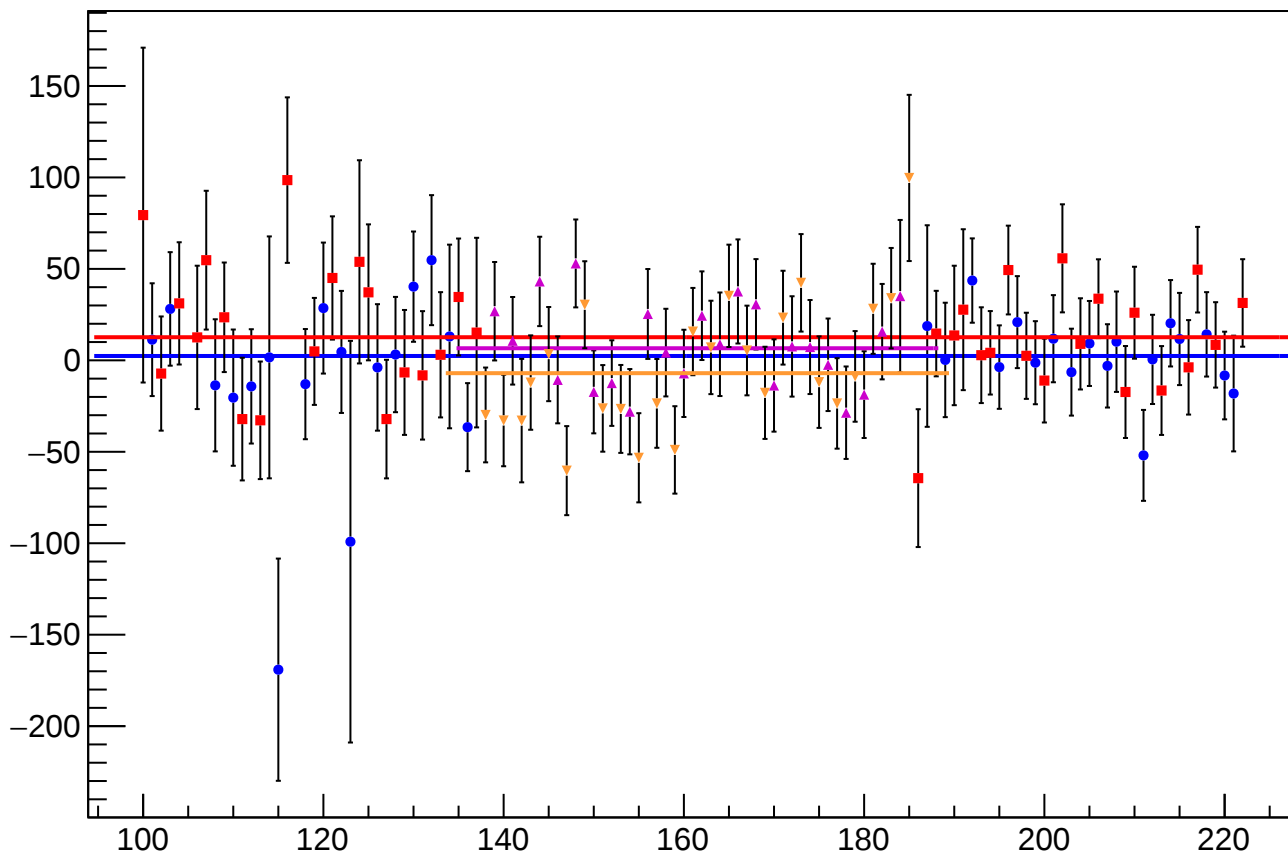
Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

+ sign 15.925 $\pm$ 0.002 χ^2 /NDF: 270979.2/59

All: 15.942 $\pm$ 0.001 χ^2 /NDF: 530365.8/120

- sign 15.958 $\pm$ 0.002 χ^2 /NDF: 259230.9/60

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: 2.383 ± 4.855 $\chi^2/\text{NDF}: 28.5/34$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 12.636 ± 4.769 $\chi^2/\text{NDF}: 33.0/37$

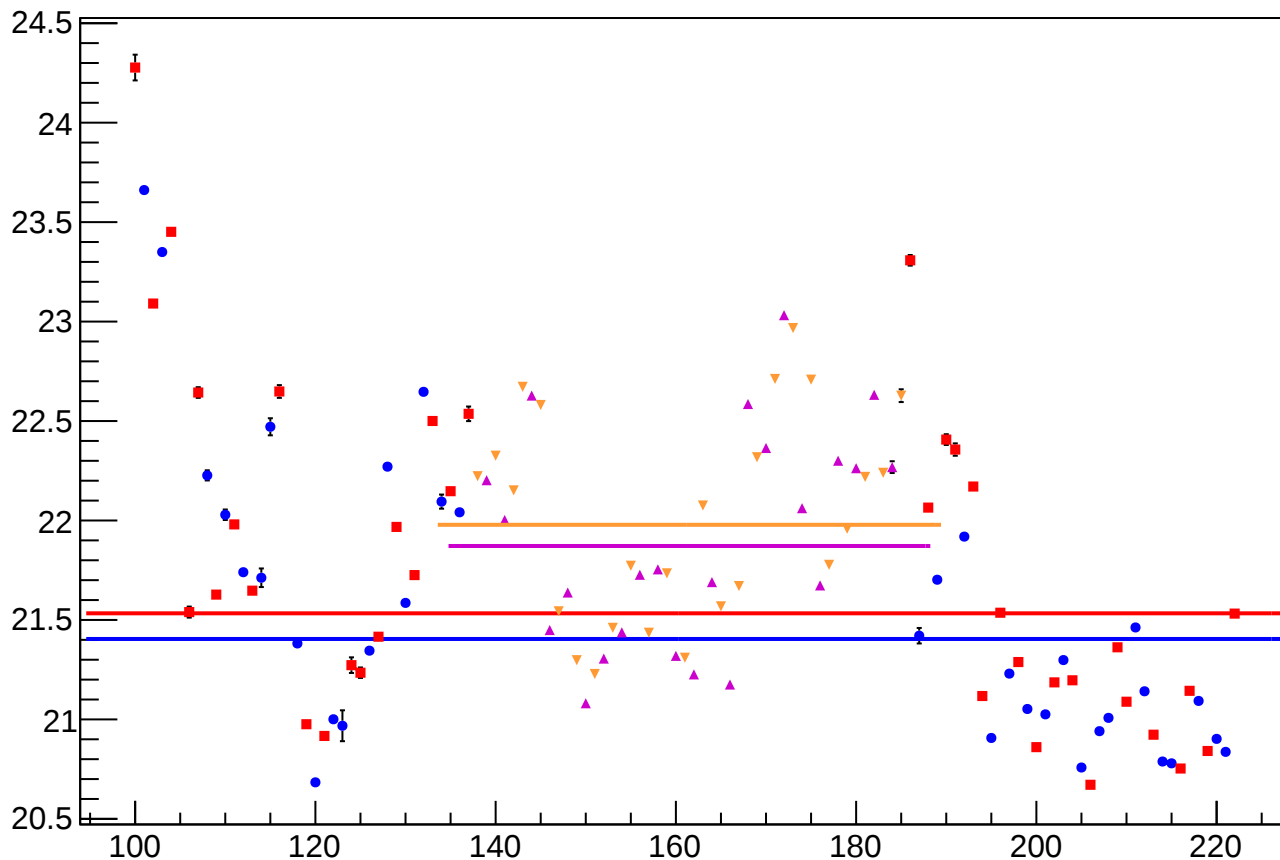
Left In: 6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

+ sign -2.067 ± 3.523 $\chi^2/\text{NDF}: 67.7/59$

All: 3.911 ± 2.494 $\chi^2/\text{NDF}: 126.4/120$

- sign 9.913 ± 3.530 $\chi^2/\text{NDF}: 52.9/60$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.404 $\pm$ 0.003 χ^2 /NDF: 38777.6/34

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF: 19430.2/24

Right Out: 21.533 $\pm$ 0.003 χ^2 /NDF: 42720.8/37

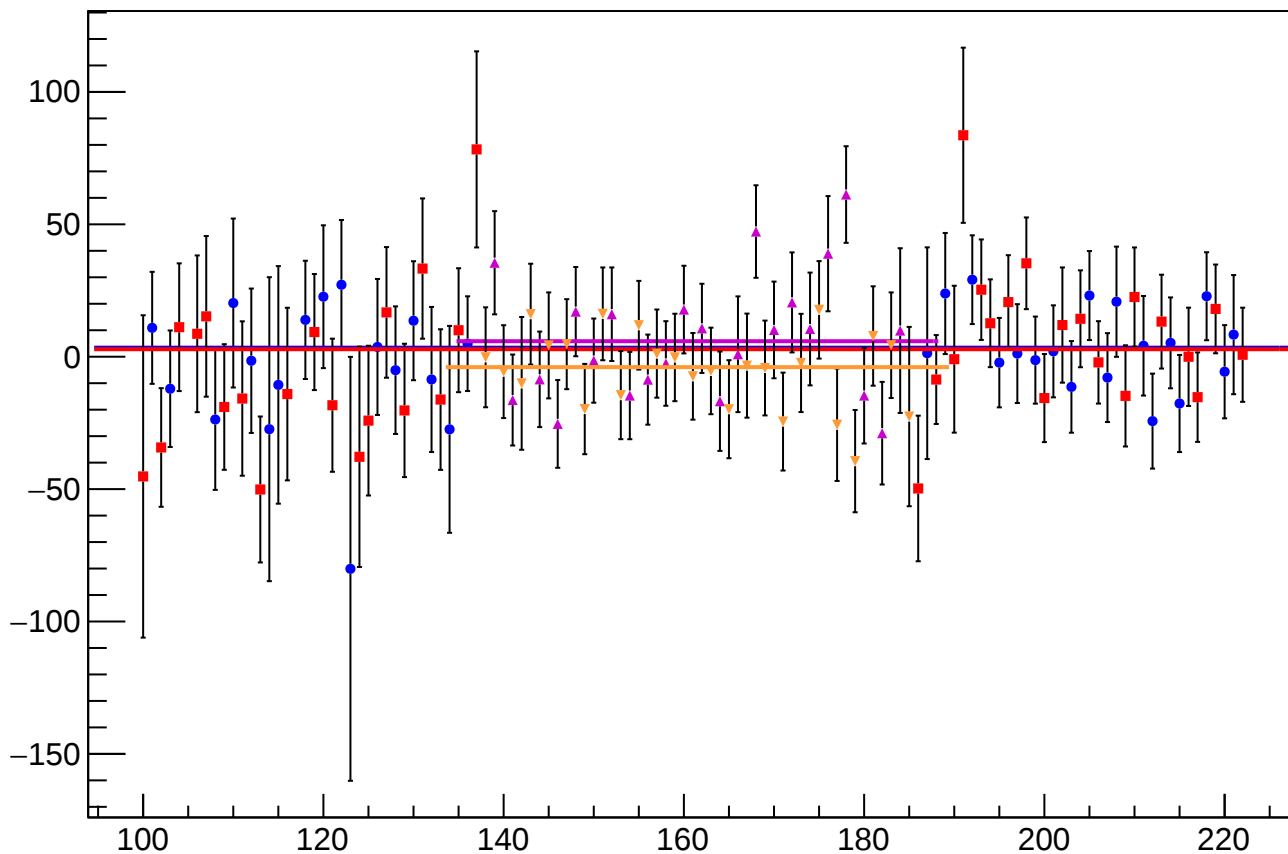
Left In: 21.872 $\pm$ 0.004 χ^2 /NDF: 20524.9/22

+ sign 21.676 $\pm$ 0.002 χ^2 /NDF: 71440.7/59

All: 21.681 $\pm$ 0.002 χ^2 /NDF: 139247.8/120

- sign 21.686 $\pm$ 0.002 χ^2 /NDF: 67798.8/60

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 3.414 ± 3.587 $\chi^2/\text{NDF}: 18.3/34$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: 2.836 ± 3.529 $\chi^2/\text{NDF}: 41.4/37$

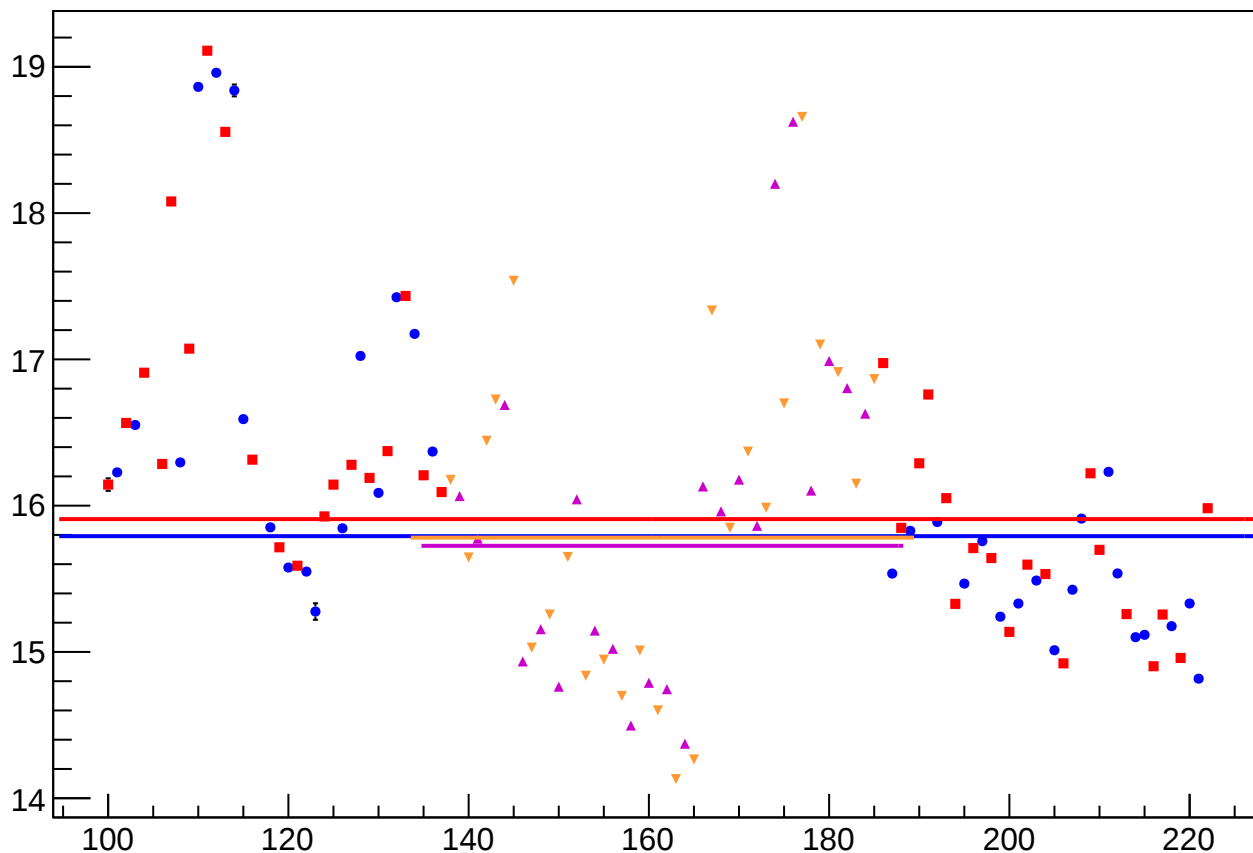
Left In: 5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

+ sign -0.154 ± 2.571 $\chi^2/\text{NDF}: 34.3/59$

All: 2.035 ± 1.822 $\chi^2/\text{NDF}: 113.7/120$

- sign 4.242 ± 2.582 $\chi^2/\text{NDF}: 78.0/60$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 15.792 $\pm$ 0.003 χ^2 /NDF: 99259.0/34

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 15.908 $\pm$ 0.002 χ^2 /NDF: 112779.0/37

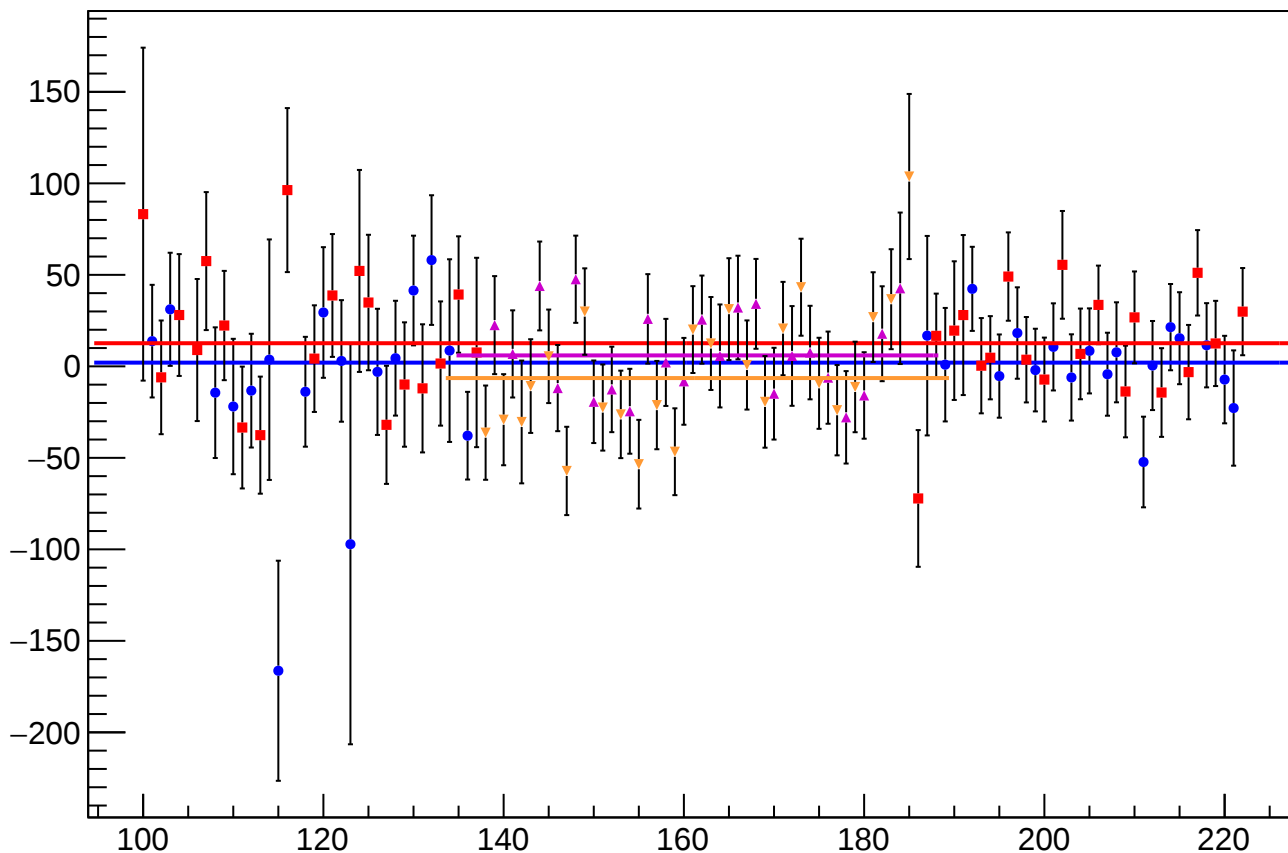
Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

+ sign 15.787 $\pm$ 0.002 χ^2 /NDF: 272161.2/59

All: 15.805 $\pm$ 0.001 χ^2 /NDF: 533462.6/120

- sign 15.823 $\pm$ 0.002 χ^2 /NDF: 261099.6/60

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: 2.029 ± 4.835 χ^2/NDF : 29.4/34

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: 12.638 ± 4.747 χ^2/NDF : 34.1/37

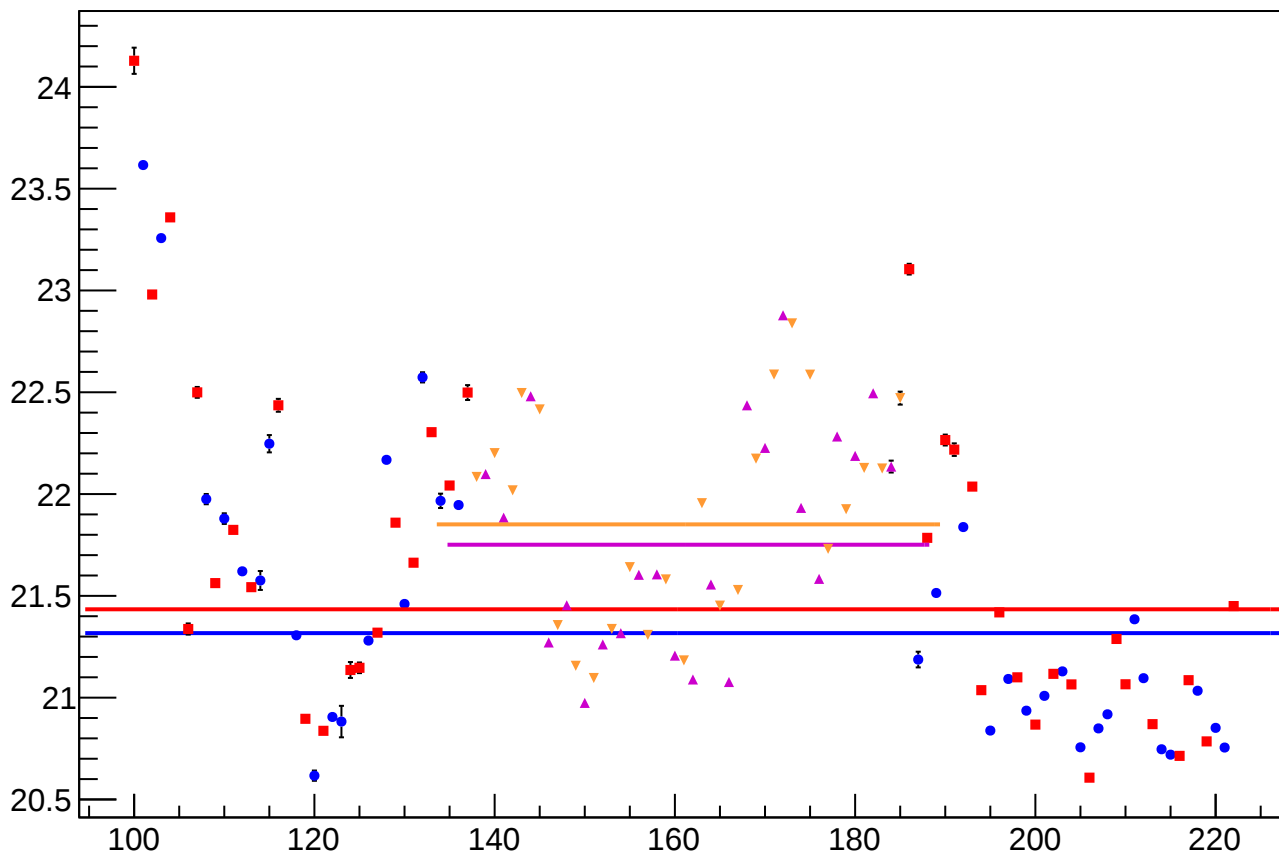
Left In: 5.978 ± 5.222 χ^2/NDF : 18.5/22

+ sign -1.970 ± 3.506 χ^2/NDF : 68.2/59

All: 3.817 ± 2.482 χ^2/NDF : 127.1/120

- sign 9.625 ± 3.513 χ^2/NDF : 53.5/60

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.317 $\pm$ 0.003 χ^2 /NDF: 37566.0/34

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.434 $\pm$ 0.003 χ^2 /NDF: 39314.3/37

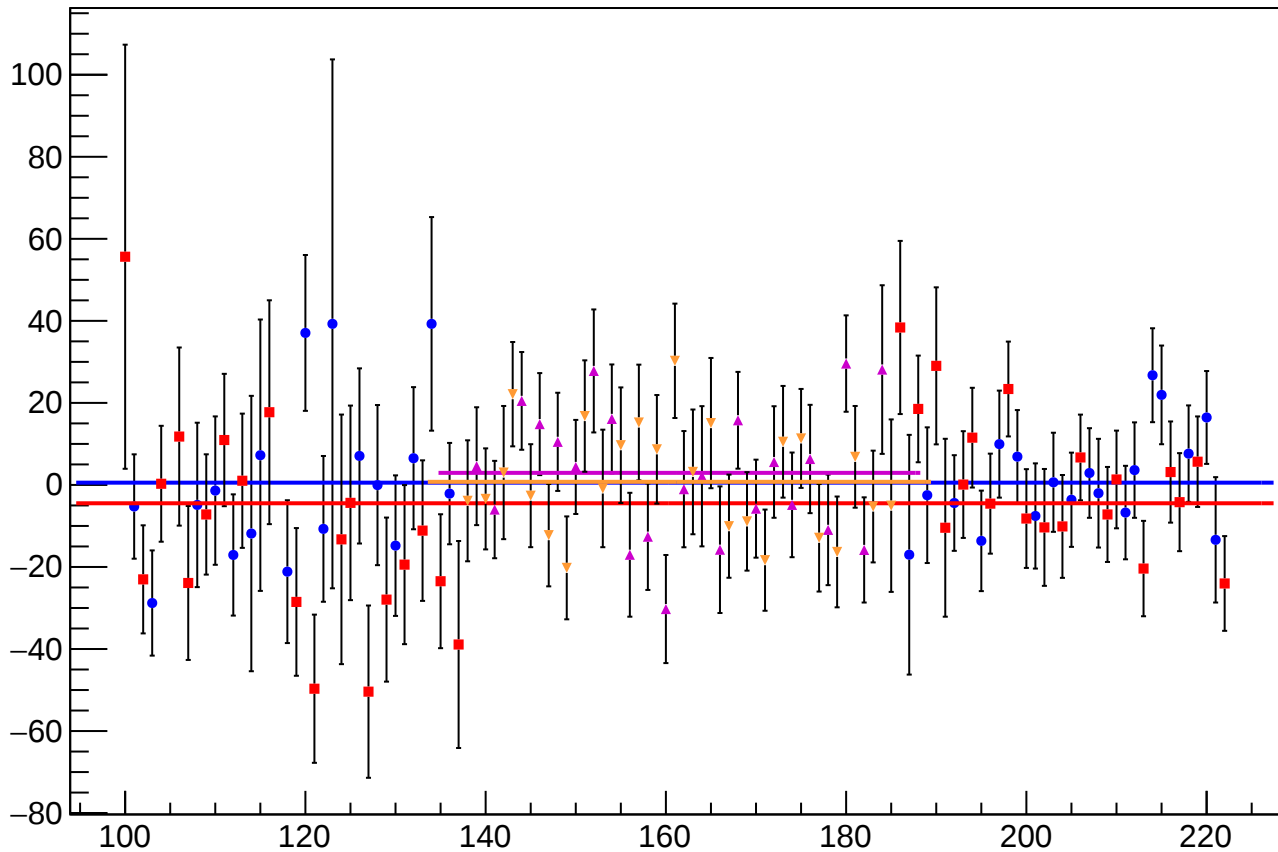
Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

+ sign 21.570 $\pm$ 0.002 χ^2 /NDF: 68771.5/59

All: 21.574 $\pm$ 0.002 χ^2 /NDF: 132646.3/120

- sign 21.578 $\pm$ 0.002 χ^2 /NDF: 63870.5/60

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: 0.553 ± 2.431 $\chi^2/\text{NDF}: 31.8/34$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: -4.470 ± 2.402 $\chi^2/\text{NDF}: 51.0/37$

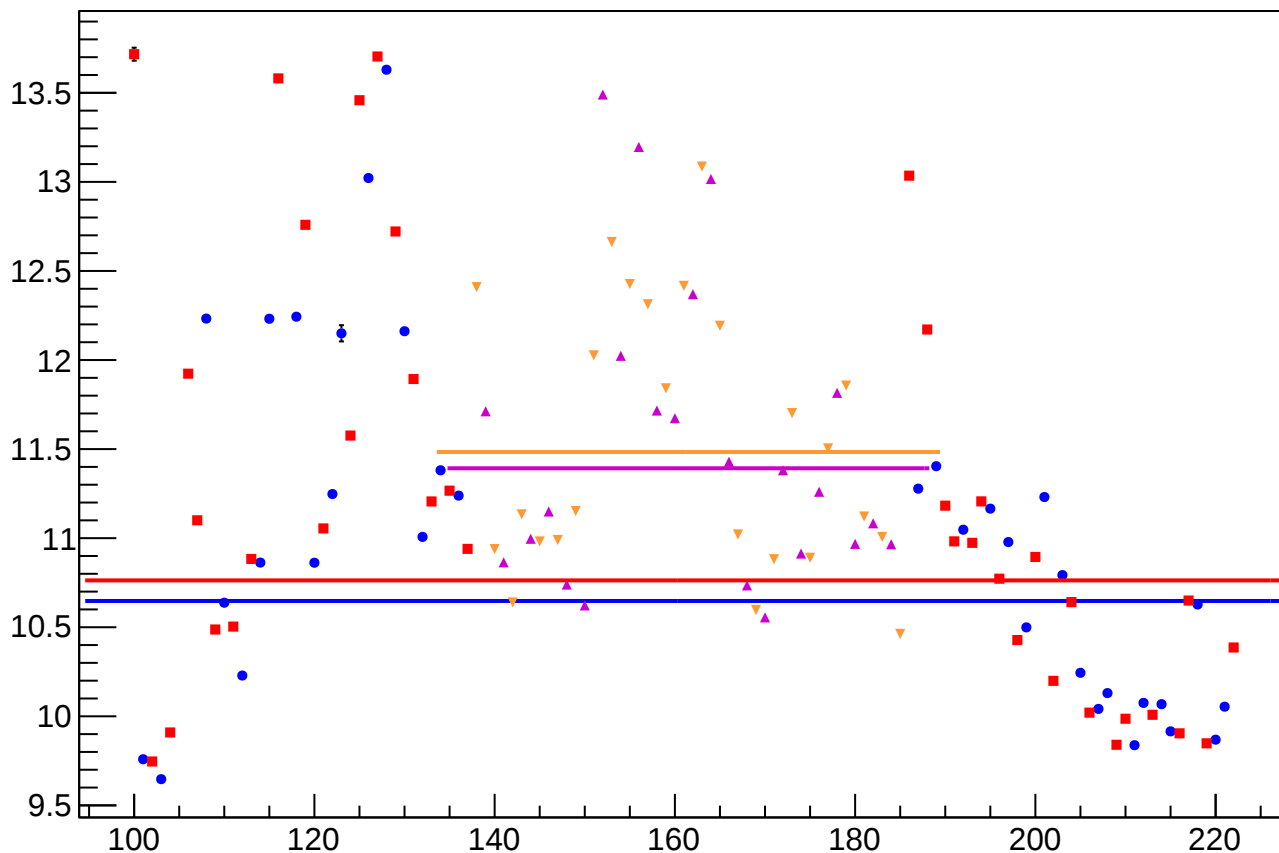
Left In: 2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

+ sign 0.645 ± 1.806 $\chi^2/\text{NDF}: 55.6/59$

All: -0.310 ± 1.279 $\chi^2/\text{NDF}: 142.2/120$

- sign -1.271 ± 1.811 $\chi^2/\text{NDF}: 86.0/60$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 10.647 $\pm$ 0.002 χ^2 /NDF: 223918.7/34

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.763 $\pm$ 0.002 χ^2 /NDF: 297355.6/37

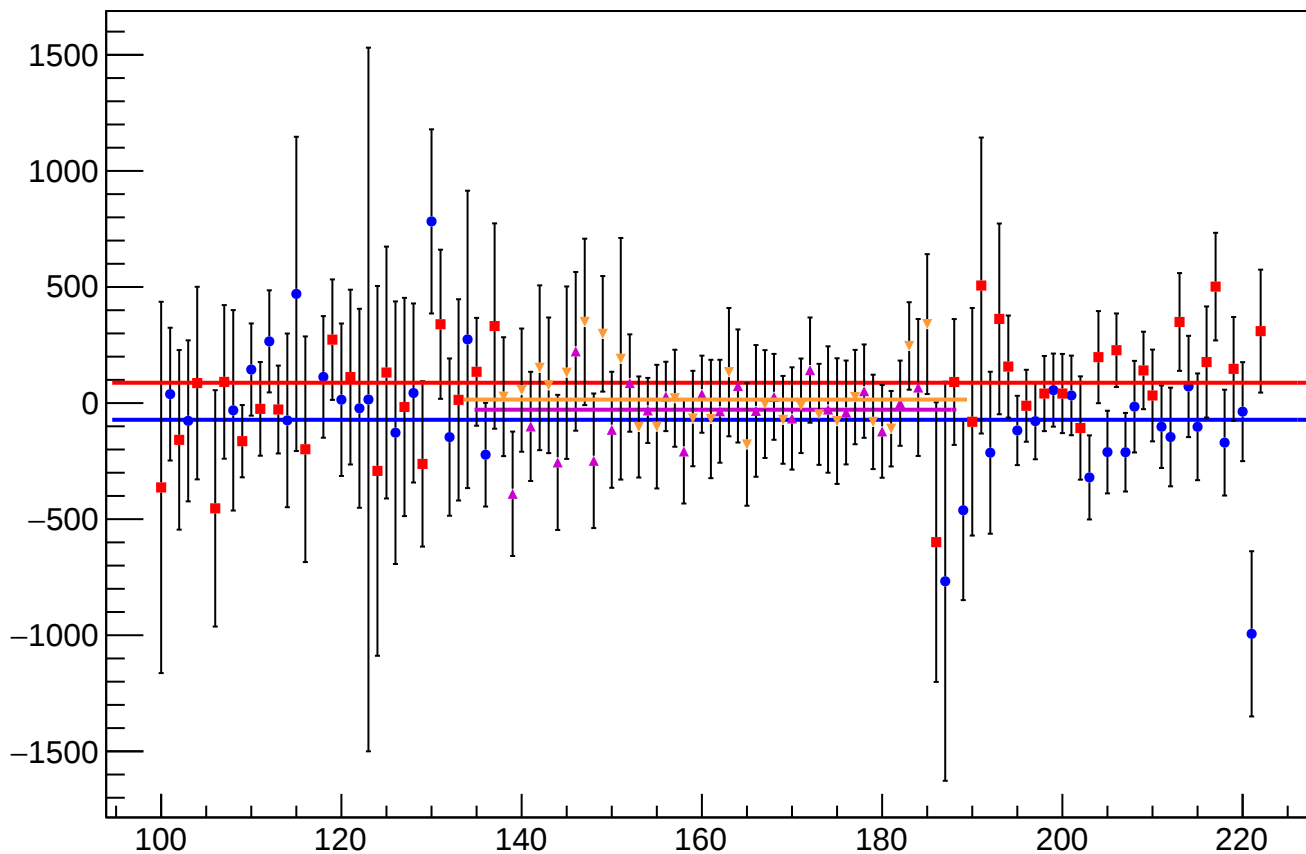
Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

+ sign 11.022 $\pm$ 0.001 χ^2 /NDF: 459773.1/59

All: 11.028 $\pm$ 0.001 χ^2 /NDF: 966896.1/120

- sign 11.035 $\pm$ 0.001 χ^2 /NDF: 507075.0/60

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug



Right In: -71.935 $\pm$ 40.947 χ^2/NDF : 24.2/34

Left Out: 15.130 $\pm$ 47.705 χ^2/NDF : 8.0/24

Right Out: 87.566 $\pm$ 40.601 χ^2/NDF : 18.9/37

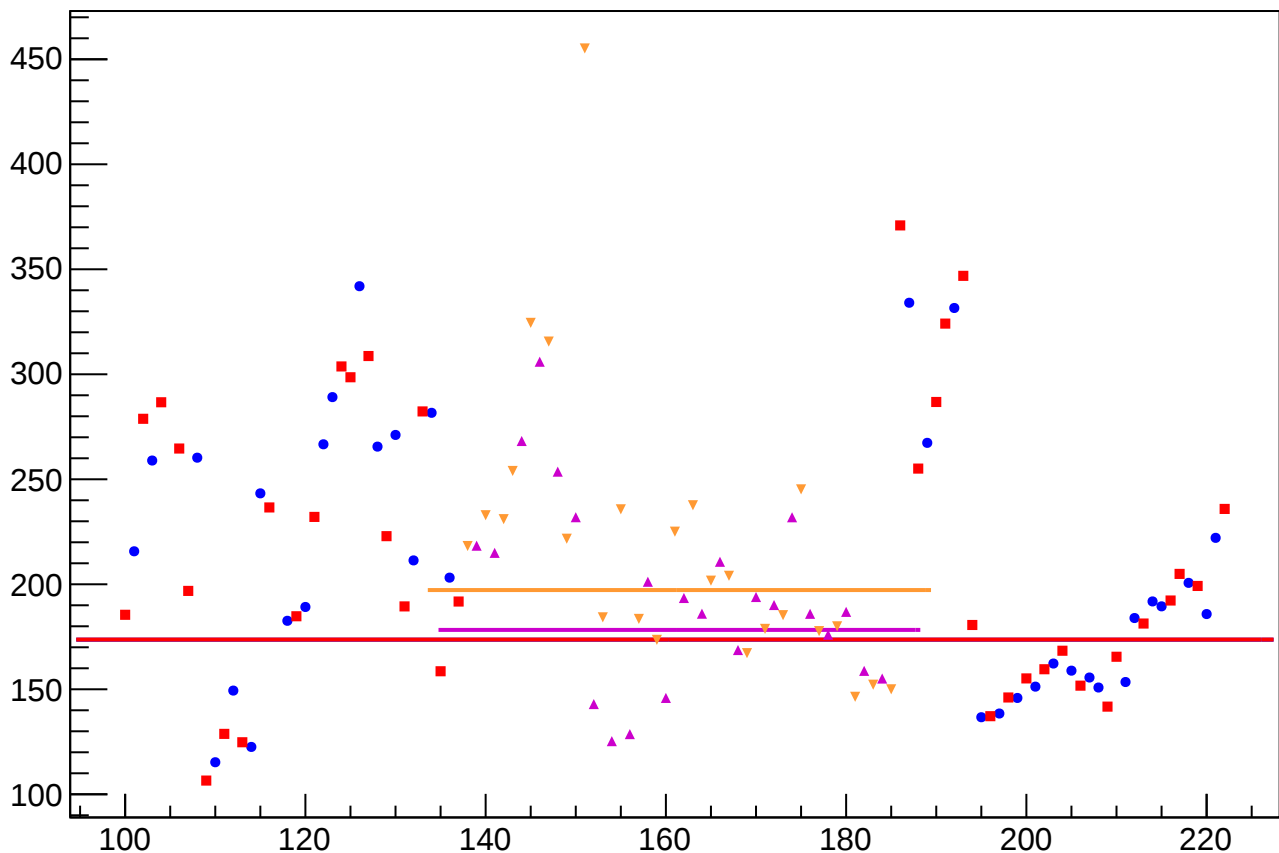
Left In: -28.500 $\pm$ 44.797 χ^2/NDF : 6.4/22

+ sign -35.001 $\pm$ 31.071 χ^2/NDF : 34.1/59

All: 1.243 $\pm$ 21.613 χ^2/NDF : 65.7/120

- sign 35.221 $\pm$ 30.084 χ^2/NDF : 29.0/60

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug



Right In: 173.615 $\pm$ 0.029 χ^2 /NDF: 2245279.1/34

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF: 1786808.1/24

Right Out: 173.680 $\pm$ 0.029 χ^2 /NDF: 3039885.9/37

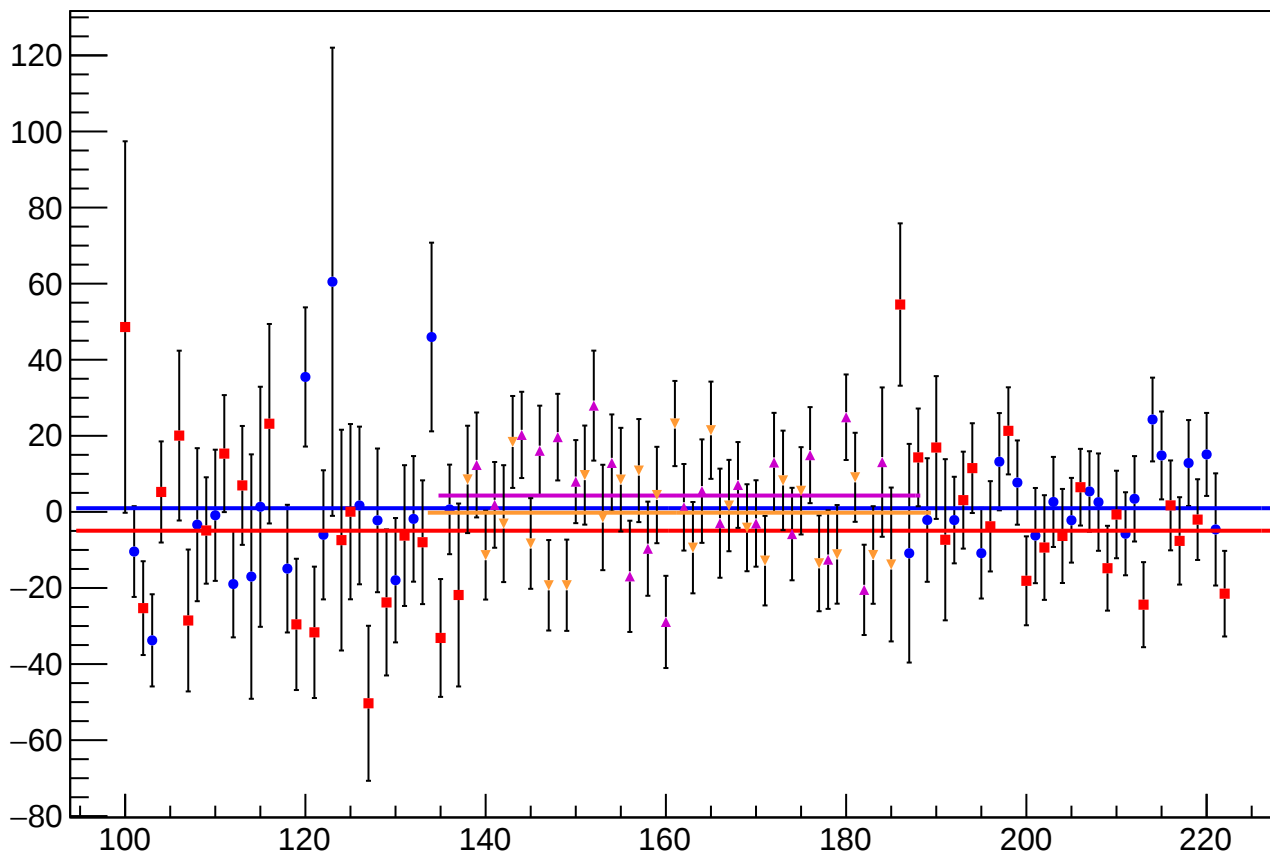
Left In: 178.277 $\pm$ 0.032 χ^2 /NDF: 1628916.6/22

+ sign 183.641 $\pm$ 0.022 χ^2 /NDF: 4314736.8/59

All: 179.570 $\pm$ 0.015 χ^2 /NDF: 9061627.9/120

- sign 175.753 $\pm$ 0.021 χ^2 /NDF: 4680364.6/60

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug



Right In: 0.971 ± 2.344 $\chi^2/\text{NDF}: 34.2/34$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: -4.945 ± 2.322 $\chi^2/\text{NDF}: 53.3/37$

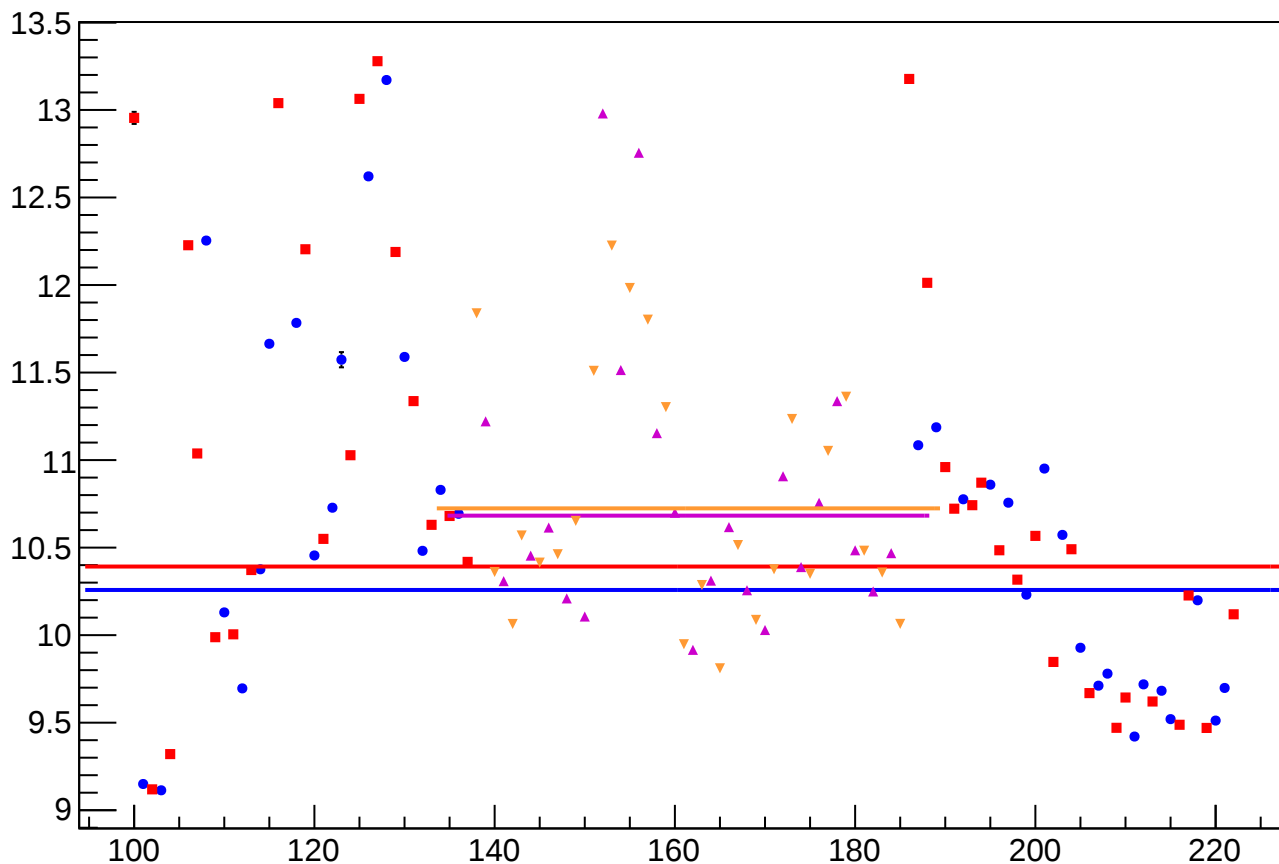
Left In: 4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

+ sign 0.424 ± 1.717 $\chi^2/\text{NDF}: 58.9/59$

All: -0.196 ± 1.218 $\chi^2/\text{NDF}: 151.1/120$

- sign -0.825 ± 1.729 $\chi^2/\text{NDF}: 92.0/60$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug



Right In: 10.258 $\pm$ 0.002 χ^2 /NDF: 252566.9/34

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF: 132558.9/24

Right Out: 10.392 $\pm$ 0.002 χ^2 /NDF: 340421.7/37

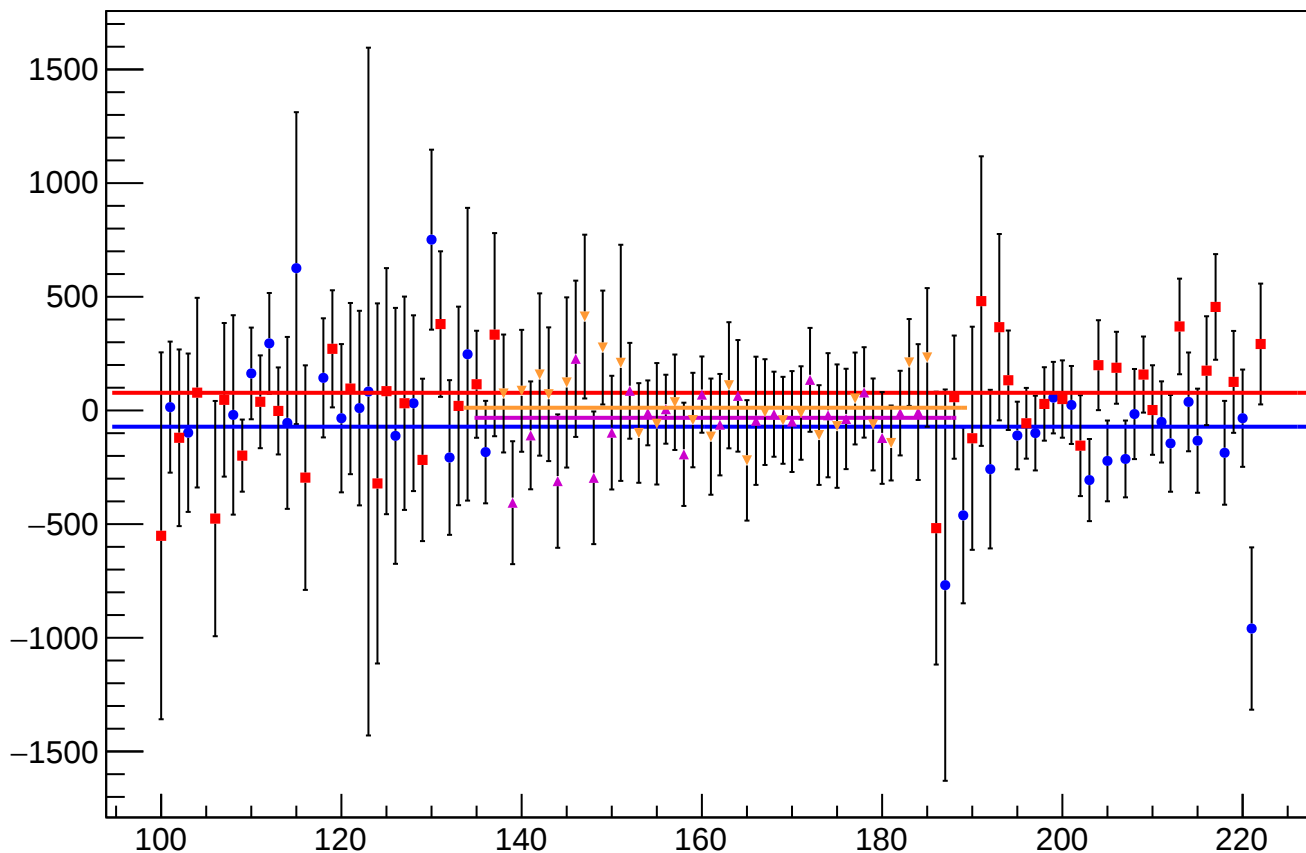
Left In: 10.683 $\pm$ 0.002 χ^2 /NDF: 147835.6/22

+ sign 10.474 $\pm$ 0.001 χ^2 /NDF: 421753.5/59

All: 10.498 $\pm$ 0.001 χ^2 /NDF: 924746.8/120

- sign 10.522 $\pm$ 0.001 χ^2 /NDF: 502232.6/60

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: -71.510 ± 41.009 χ^2/NDF : 24.1/34

Left Out: 11.891 ± 48.022 χ^2/NDF : 7.6/24

Right Out: 77.644 ± 40.721 χ^2/NDF : 19.4/37

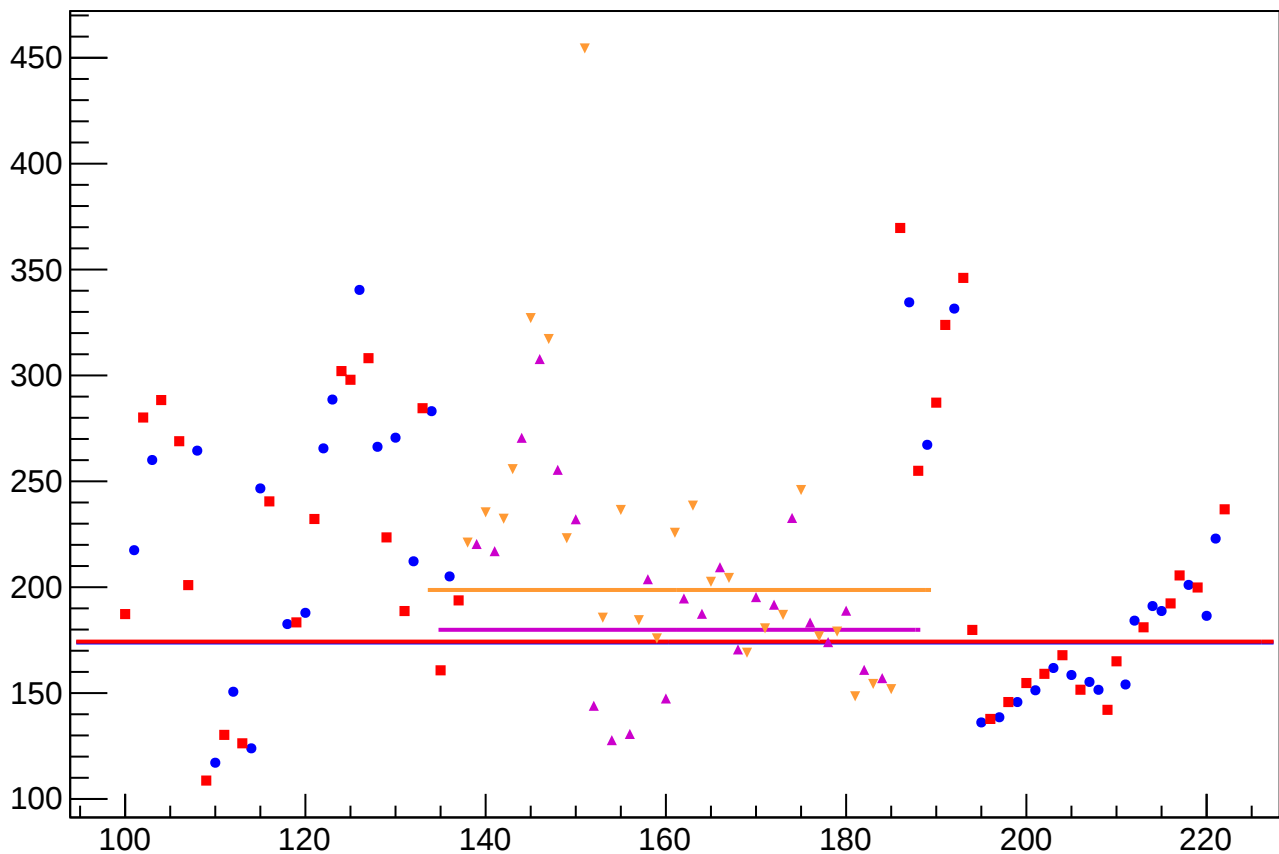
Left In: -32.413 ± 45.155 χ^2/NDF : 6.9/22

+ sign -36.339 ± 31.185 χ^2/NDF : 33.5/59

All: -3.034 ± 21.710 χ^2/NDF : 65.3/120

- sign 28.283 ± 30.240 χ^2/NDF : 29.5/60

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 173.888 $\pm$ 0.029 χ^2 /NDF: 2241681.6/34

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF: 1759311.9/24

Right Out: 174.313 $\pm$ 0.029 χ^2 /NDF: 2997849.0/37

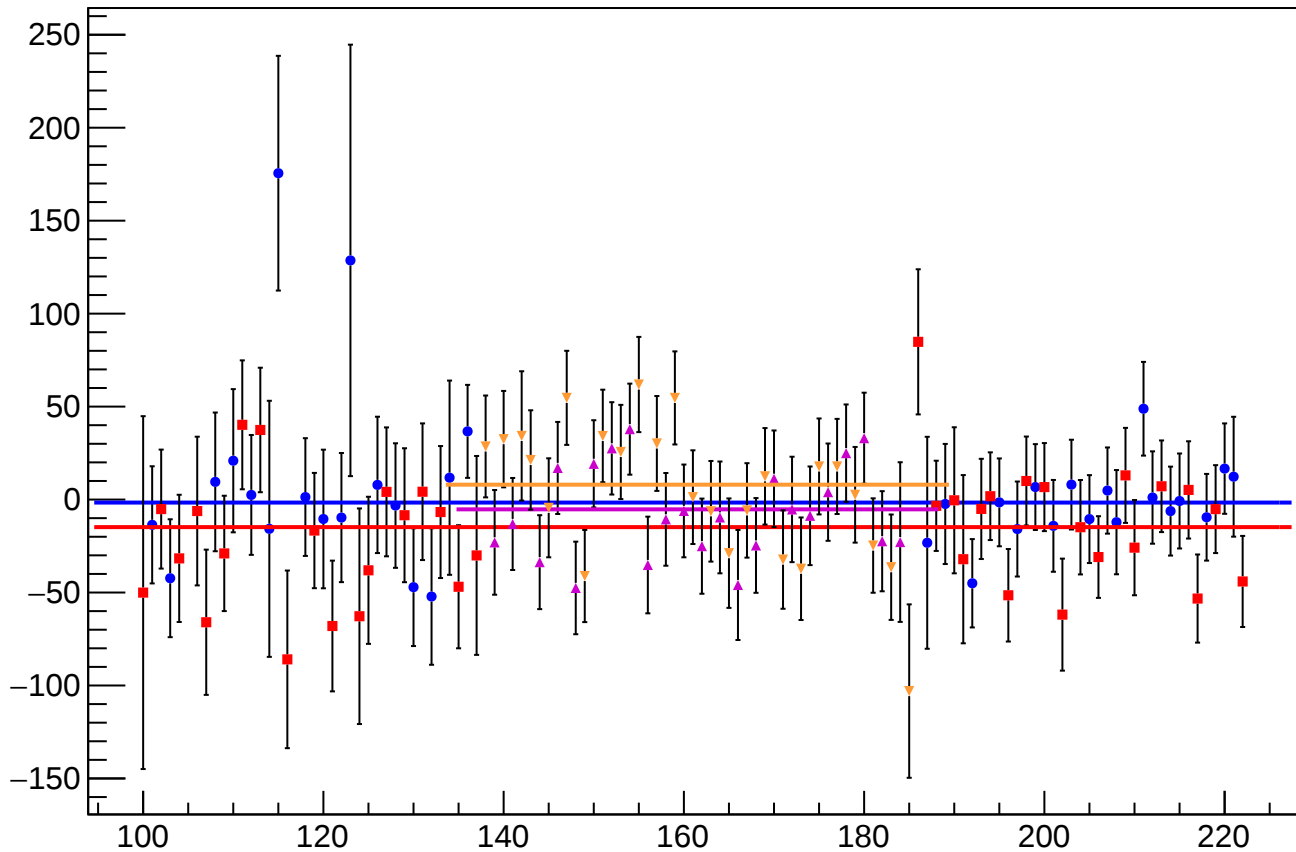
Left In: 179.886 $\pm$ 0.032 χ^2 /NDF: 1580636.4/22

+ sign 184.350 $\pm$ 0.022 χ^2 /NDF: 4309613.6/59

All: 180.465 $\pm$ 0.015 χ^2 /NDF: 8965114.7/120

- sign 176.813 $\pm$ 0.021 χ^2 /NDF: 4595290.9/60

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -1.618 ± 4.983 χ^2/NDF : 27.6/34

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: -14.821 ± 4.906 χ^2/NDF : 36.3/37

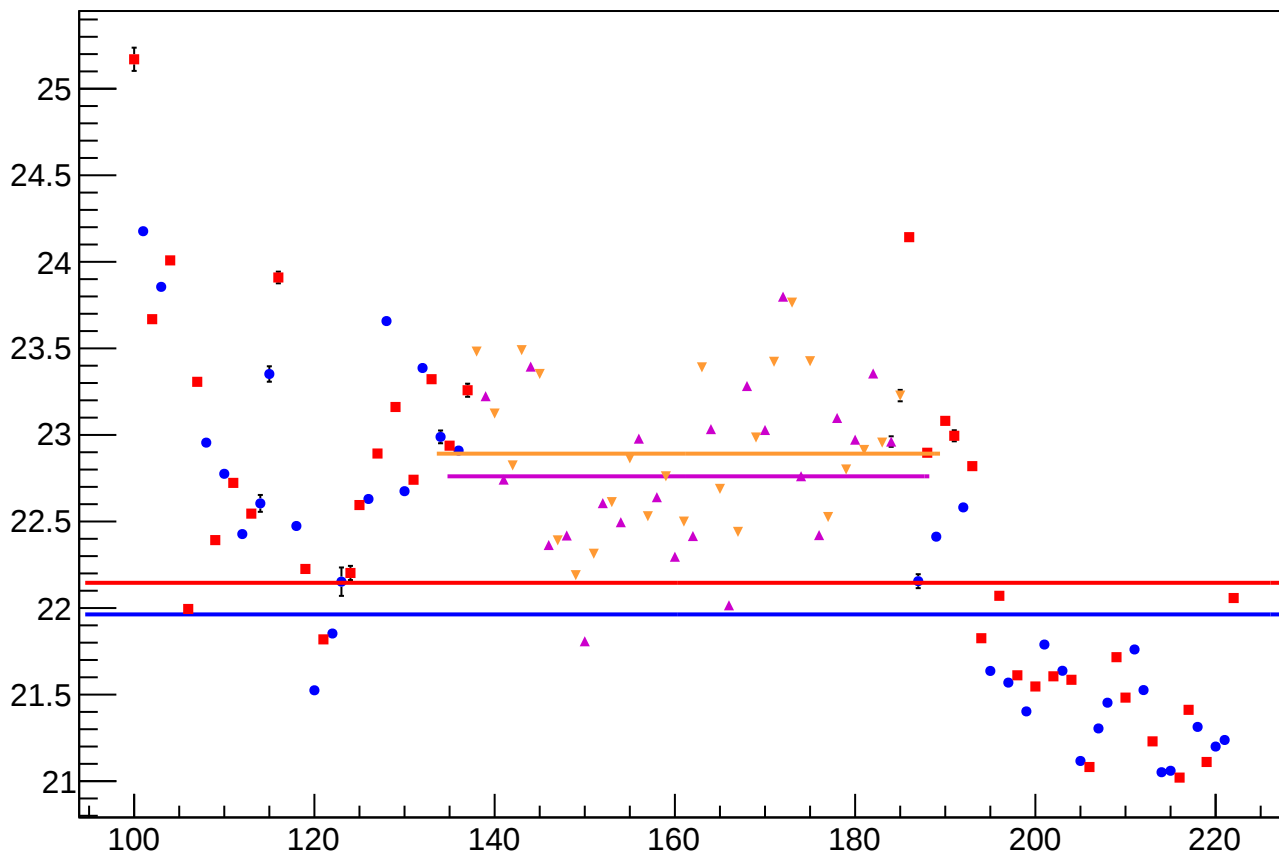
Left In: -5.261 ± 5.465 χ^2/NDF : 20.8/22

+ sign 2.866 ± 3.641 χ^2/NDF : 66.8/59

All: -3.827 ± 2.578 χ^2/NDF : 132.3/120

- sign -10.555 ± 3.651 χ^2/NDF : 58.7/60

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 21.963+/-0.004 χ^2/NDF : 54916.7/34

Left Out: 22.892+/-0.004 χ^2/NDF : 12995.5/24

Right Out: 22.146+/-0.003 χ^2/NDF : 59038.3/37

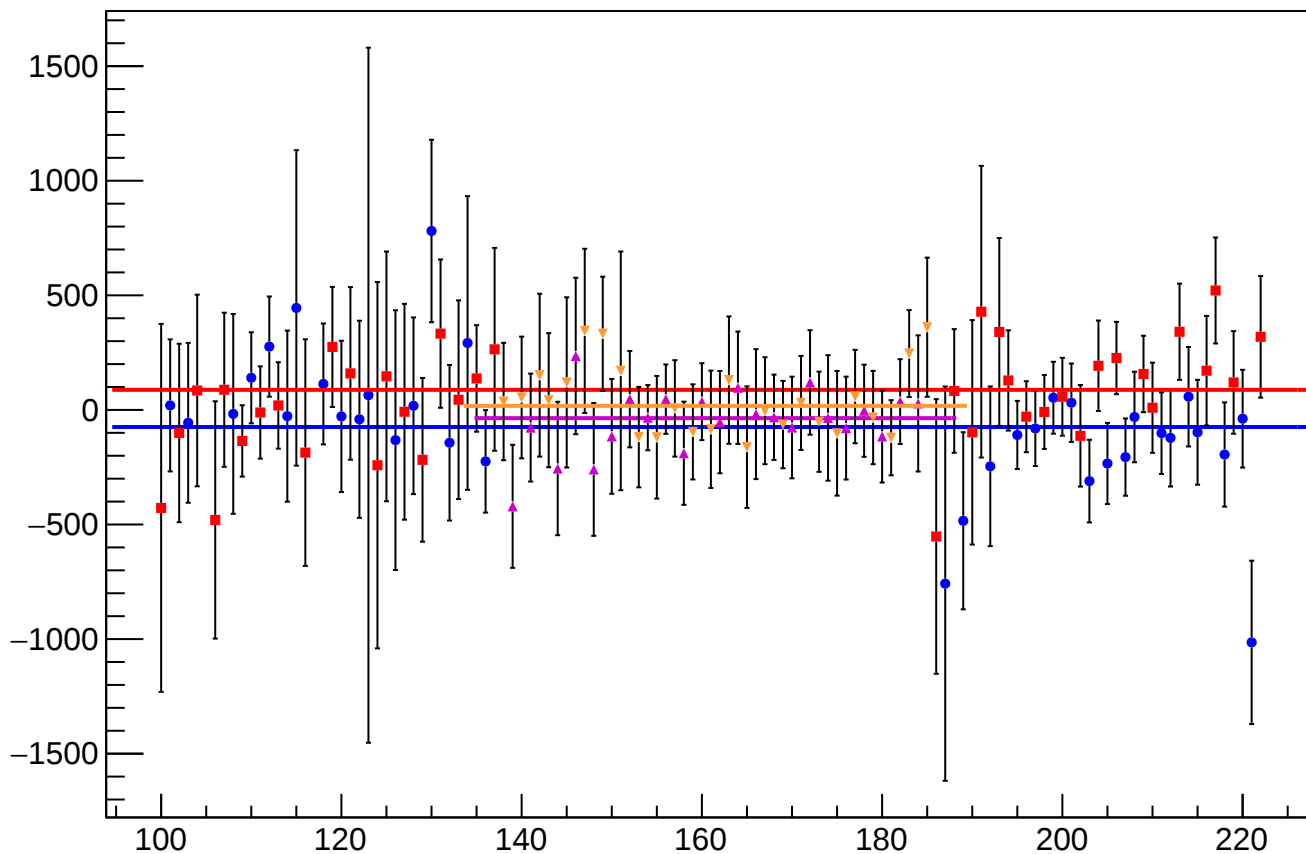
Left In: 22.761+/-0.004 χ^2/NDF : 14550.0/22

+ sign 22.396+/-0.003 χ^2/NDF : 100283.7/59

All: 22.408+/-0.002 χ^2/NDF : 187948.2/120

- sign 22.420+/-0.003 χ^2/NDF : 87620.2/60

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug



Right In: -74.614 ± 40.894 χ^2/NDF : 24.5/34

Left Out: 17.777 ± 47.941 χ^2/NDF : 8.5/24

Right Out: 87.637 ± 40.556 χ^2/NDF : 17.9/37

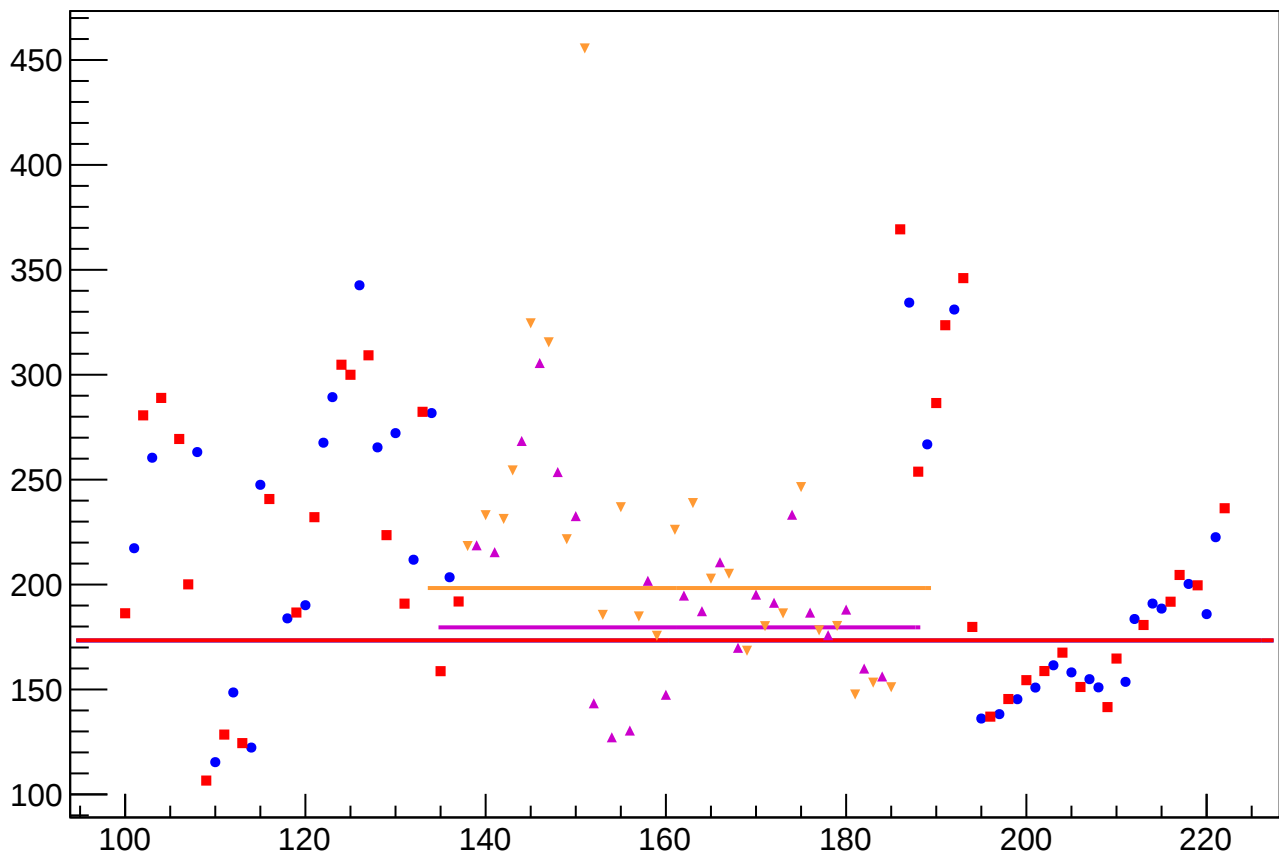
Left In: -35.879 ± 45.087 χ^2/NDF : 6.3/22

+ sign -35.702 ± 31.113 χ^2/NDF : 35.2/59

All: -0.587 ± 21.653 χ^2/NDF : 66.0/120

- sign 32.395 ± 30.153 χ^2/NDF : 28.4/60

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug



Right In: 173.335 $\pm$ 0.029 χ^2 /NDF: 2273006.9/34

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF: 1757450.6/24

Right Out: 173.433 $\pm$ 0.029 χ^2 /NDF: 3070482.3/37

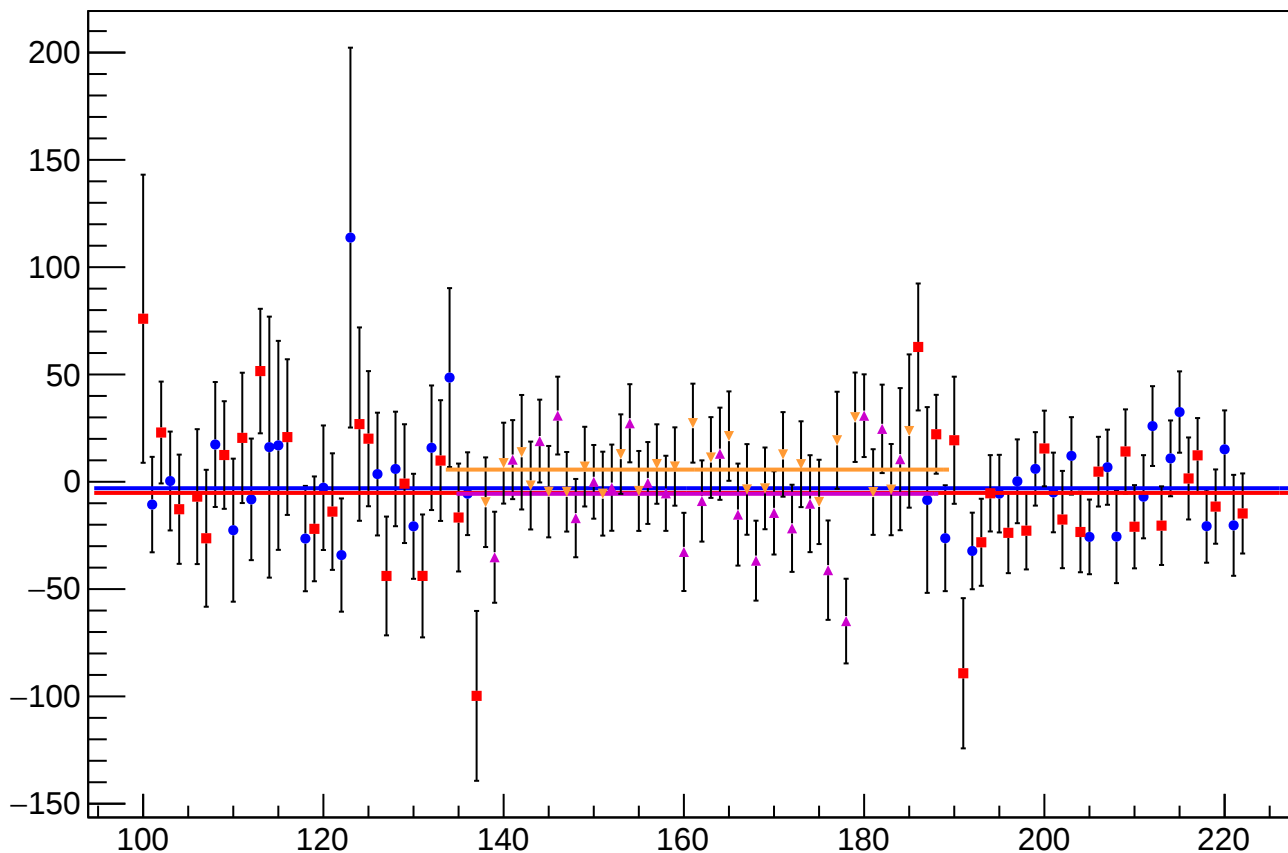
Left In: 179.605 $\pm$ 0.032 χ^2 /NDF: 1575744.0/22

+ sign 183.868 $\pm$ 0.022 χ^2 /NDF: 4345485.1/59

All: 179.910 $\pm$ 0.015 χ^2 /NDF: 9075181.9/120

- sign 176.193 $\pm$ 0.021 χ^2 /NDF: 4666944.3/60

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug



Right In: -3.000 $\pm$ 3.780 χ^2/NDF : 24.9/34

Left Out: 5.680 $\pm$ 4.024 χ^2/NDF : 7.7/24

Right Out: -5.182 $\pm$ 3.730 χ^2/NDF : 44.7/37

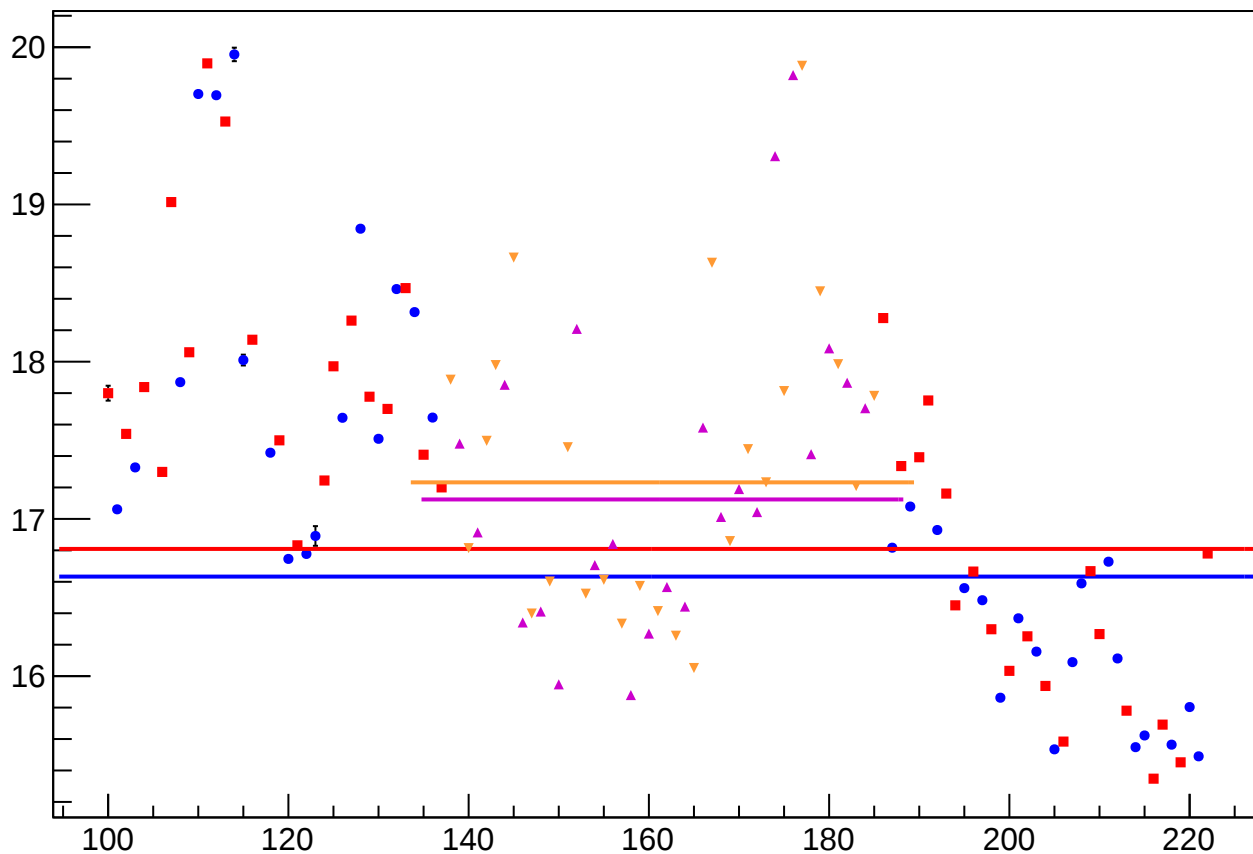
Left In: -5.595 $\pm$ 4.121 χ^2/NDF : 36.4/22

+ sign 1.069 $\pm$ 2.755 χ^2/NDF : 35.1/59

All: -2.137 $\pm$ 1.952 χ^2/NDF : 119.0/120

- sign -5.368 $\pm$ 2.766 χ^2/NDF : 81.1/60

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug



Right In: 16.633 $\pm$ 0.003 χ^2 /NDF: 140541.2/34

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF: 98701.0/24

Right Out: 16.809 $\pm$ 0.003 χ^2 /NDF: 157212.7/37

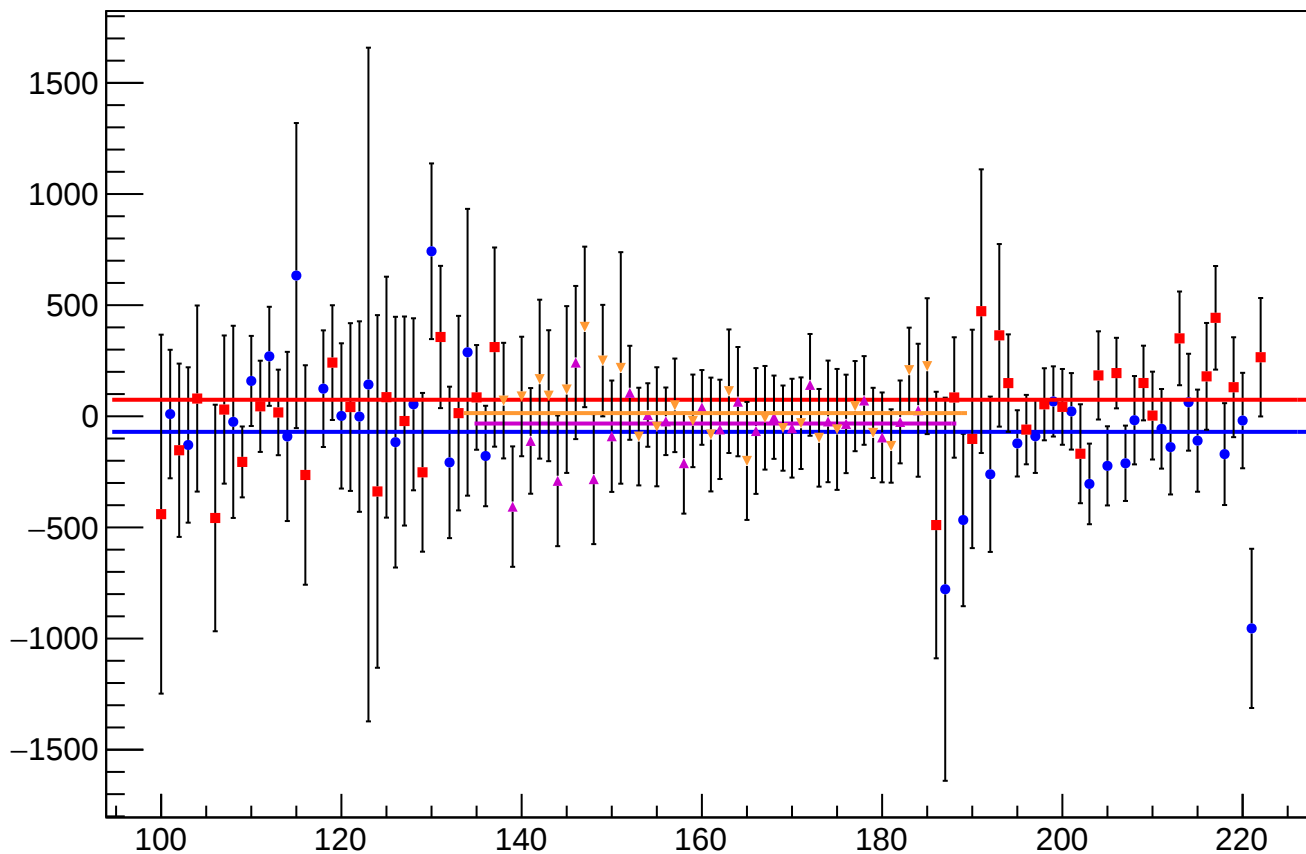
Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

+ sign 16.914 $\pm$ 0.002 χ^2 /NDF: 262815.6/59

All: 16.932 $\pm$ 0.001 χ^2 /NDF: 527358.7/120

- sign 16.951 $\pm$ 0.002 χ^2 /NDF: 264366.0/60

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug



Right In: -70.004 ± 41.133 χ^2/NDF : 23.7/34

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: 74.400 ± 40.830 χ^2/NDF : 18.4/37

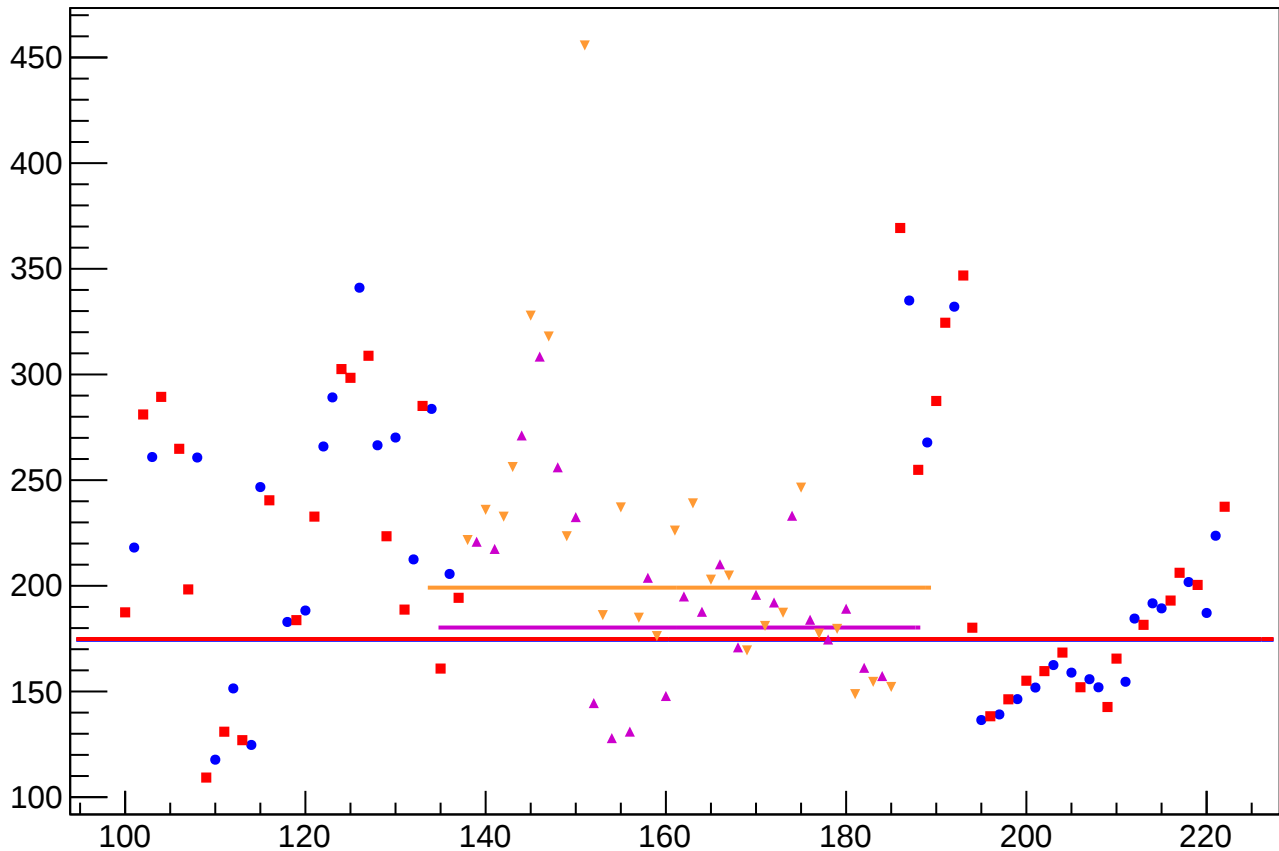
Left In: -32.571 ± 45.248 χ^2/NDF : 6.7/22

+ sign -34.393 ± 31.269 χ^2/NDF : 32.4/59

All: -3.058 ± 21.765 χ^2/NDF : 62.5/120

- sign 26.391 ± 30.313 χ^2/NDF : 28.1/60

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug



Right In: 174.457 $\pm$ 0.029 χ^2 /NDF: 2223523.3/34

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 174.836 $\pm$ 0.029 χ^2 /NDF: 2972936.1/37

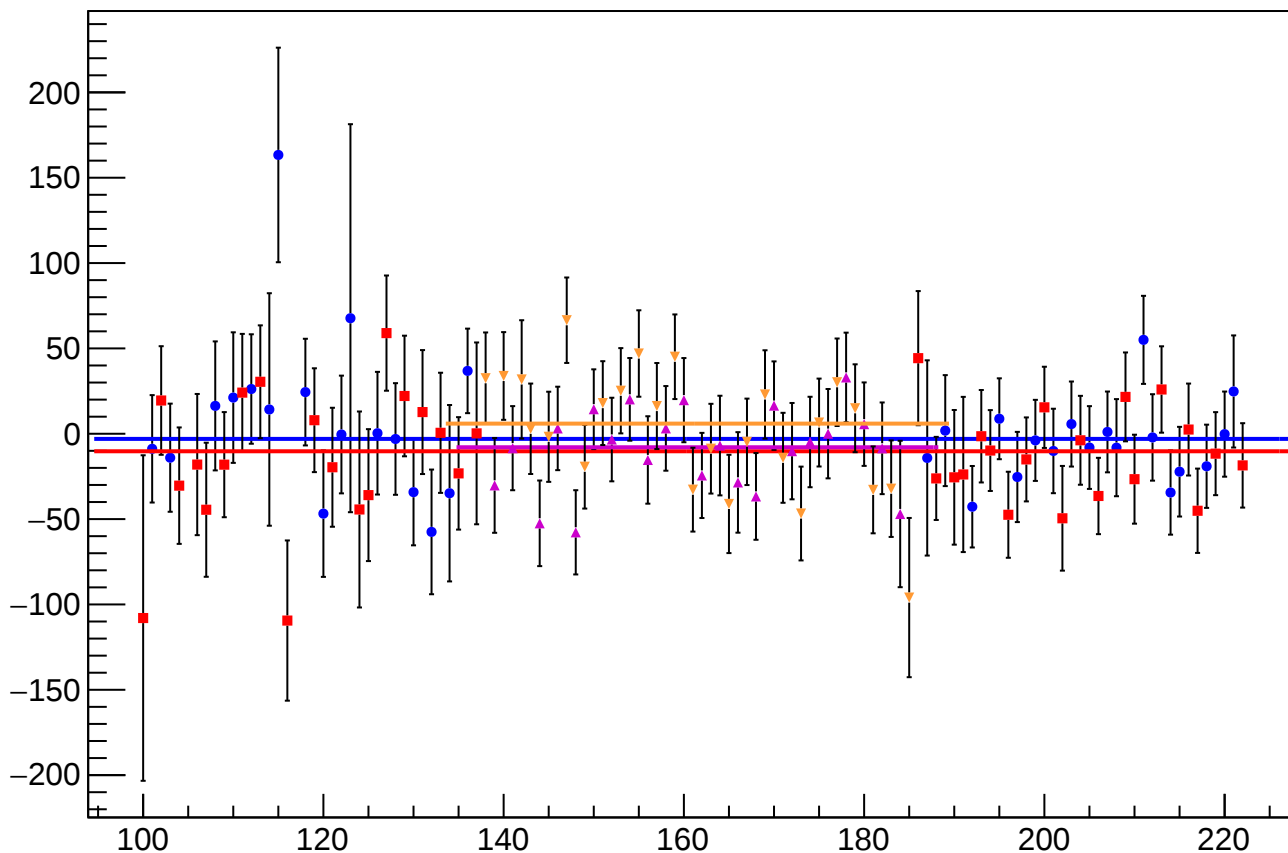
Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

+ sign 184.874 $\pm$ 0.022 χ^2 /NDF: 4287712.2/59

All: 180.953 $\pm$ 0.015 χ^2 /NDF: 8918012.2/120

- sign 177.269 $\pm$ 0.021 χ^2 /NDF: 4569310.6/60

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug



Right In: -3.011 ± 5.043 χ^2/NDF : 30.0/34

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: -10.266 ± 4.948 χ^2/NDF : 32.5/37

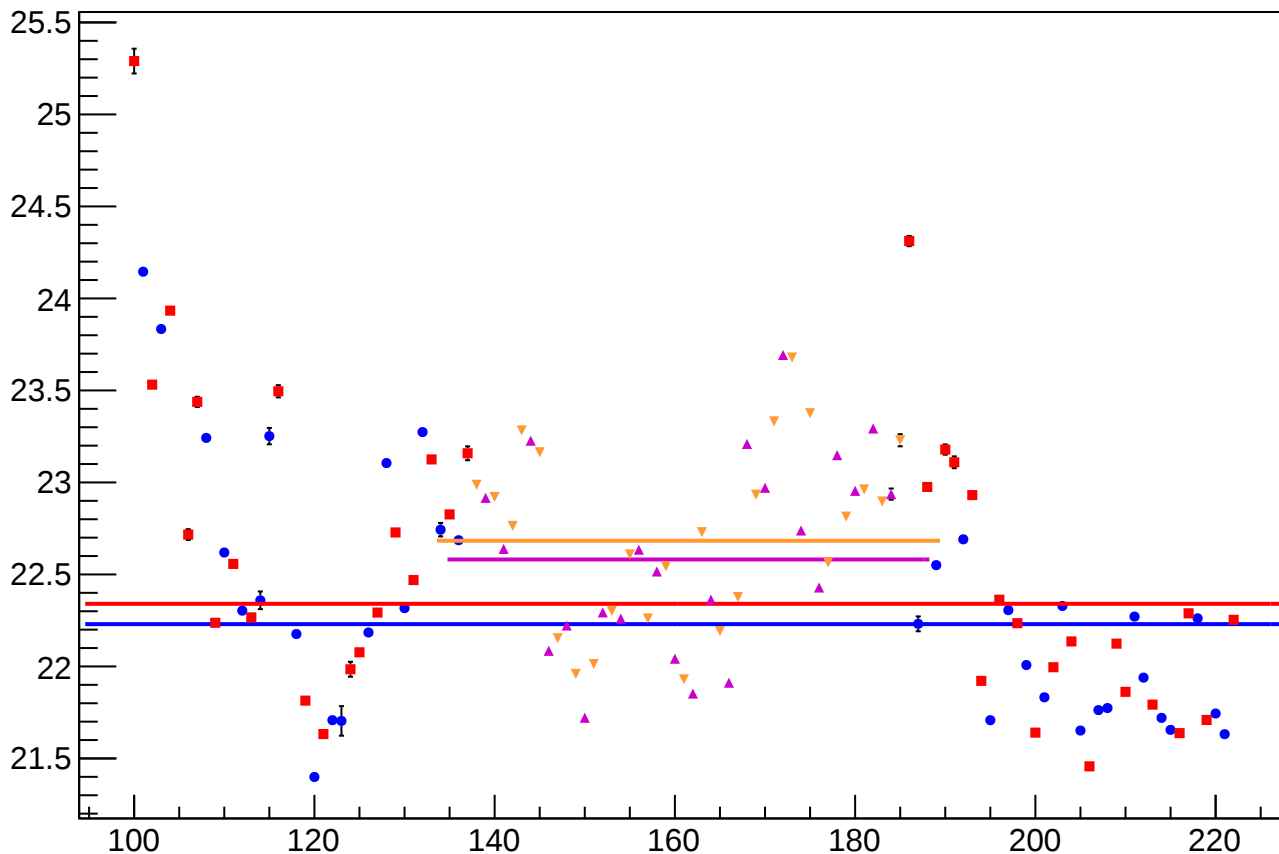
Left In: -7.915 ± 5.422 χ^2/NDF : 18.7/22

+ sign 1.253 ± 3.648 χ^2/NDF : 67.6/59

All: -3.963 ± 2.582 χ^2/NDF : 123.0/120

- sign -9.198 ± 3.655 χ^2/NDF : 51.3/60

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug



Right In: 22.230 $\pm$ 0.004 χ^2 /NDF: 28784.6/34

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.340 $\pm$ 0.003 χ^2 /NDF: 35104.5/37

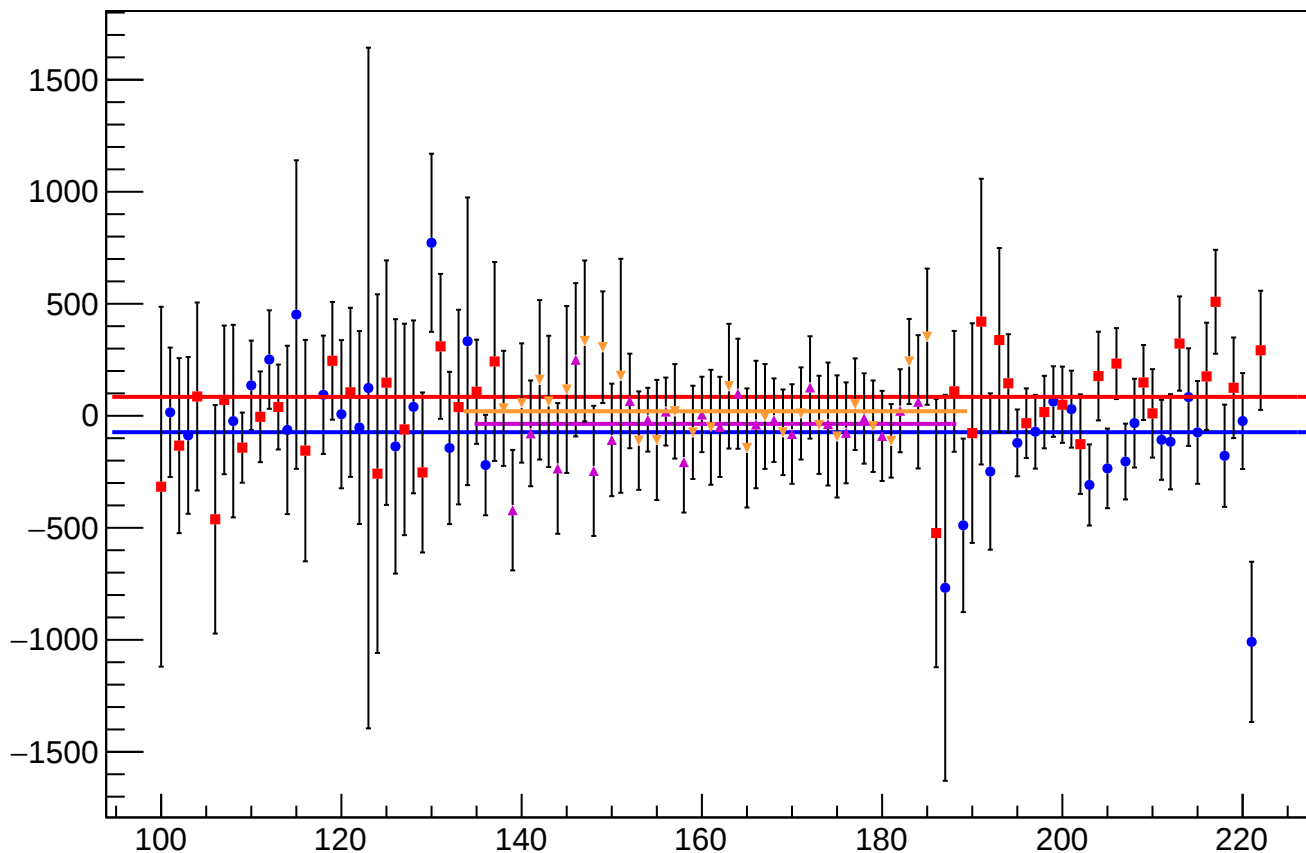
Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

+ sign 22.446 $\pm$ 0.003 χ^2 /NDF: 52803.5/59

All: 22.448 $\pm$ 0.002 χ^2 /NDF: 107968.7/120

- sign 22.450 $\pm$ 0.003 χ^2 /NDF: 55164.0/60

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug



Right In: -73.176 ± 41.019 χ^2/NDF : 24.1/34

Left Out: 20.306 ± 48.049 χ^2/NDF : 7.7/24

Right Out: 84.437 ± 40.666 χ^2/NDF : 16.9/37

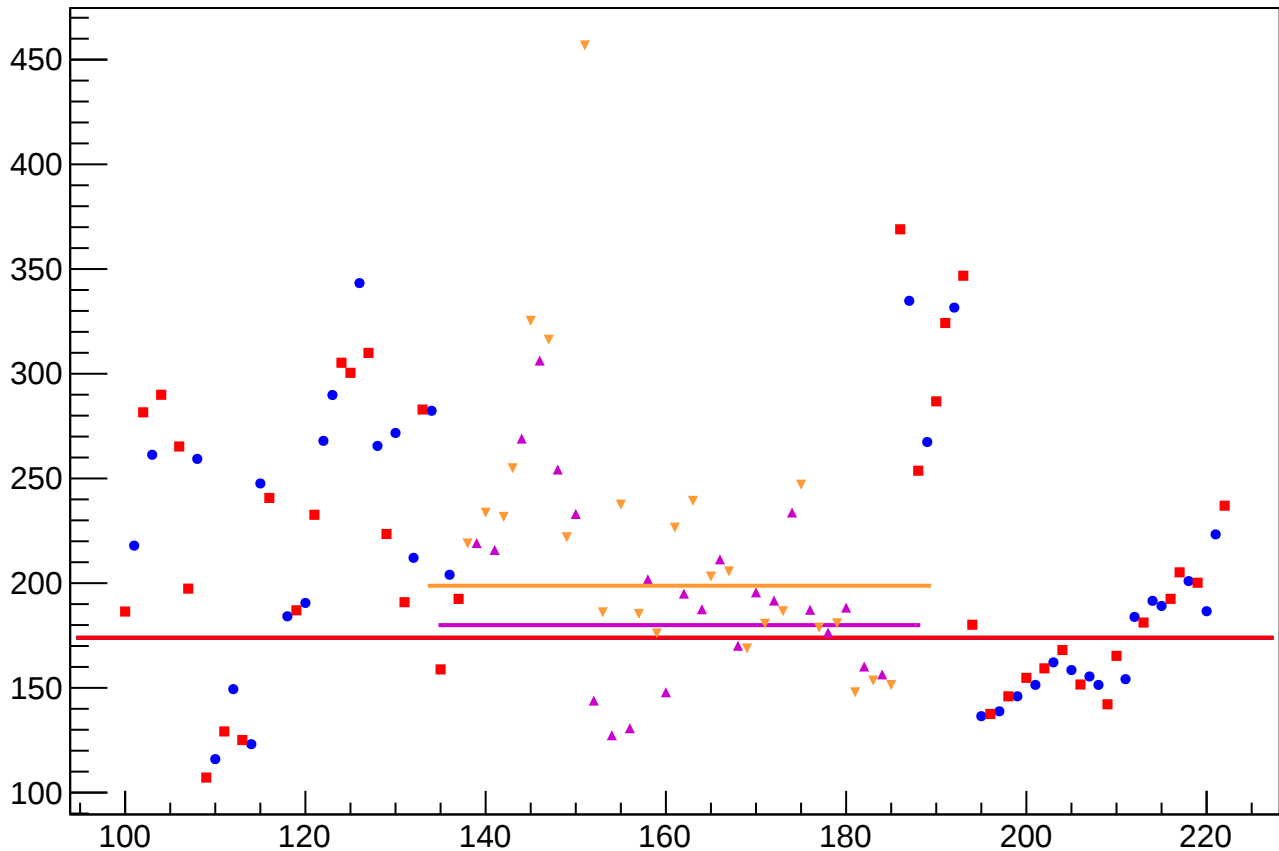
Left In: -35.996 ± 45.180 χ^2/NDF : 6.1/22

+ sign -33.768 ± 31.197 χ^2/NDF : 34.0/59

All: -0.600 ± 21.708 χ^2/NDF : 63.0/120

- sign 30.535 ± 30.226 χ^2/NDF : 26.9/60

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug



Right In: 173.908 $\pm$ 0.029 χ^2 /NDF: 2254238.5/34

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 173.962 $\pm$ 0.029 χ^2 /NDF: 3044587.9/37

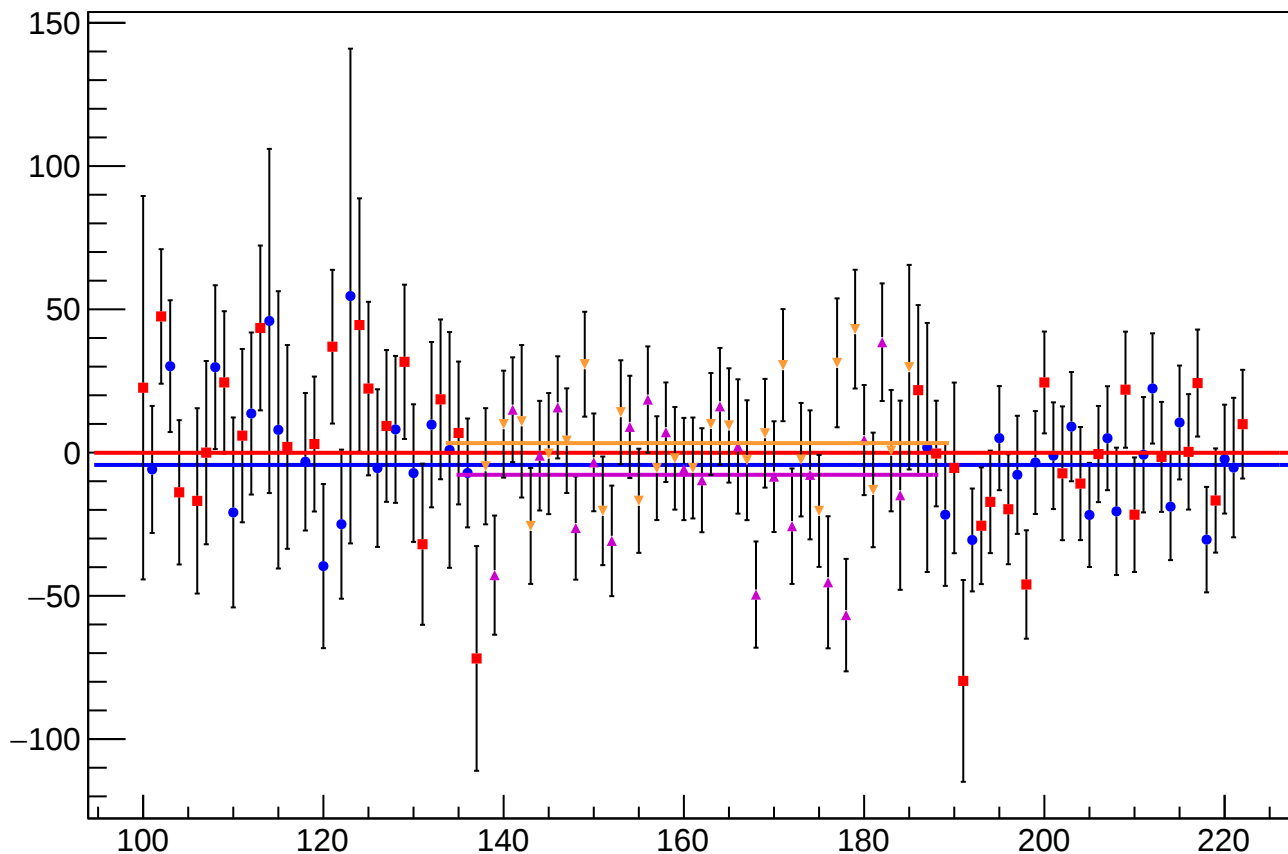
Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

+ sign 184.395 $\pm$ 0.022 χ^2 /NDF: 4322817.7/59

All: 180.401 $\pm$ 0.015 χ^2 /NDF: 9026399.5/120

- sign 176.652 $\pm$ 0.021 χ^2 /NDF: 4640032.0/60

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug



Right In: -4.309 ± 3.859 χ^2/NDF : 18.6/34

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -0.073 ± 3.790 χ^2/NDF : 40.9/37

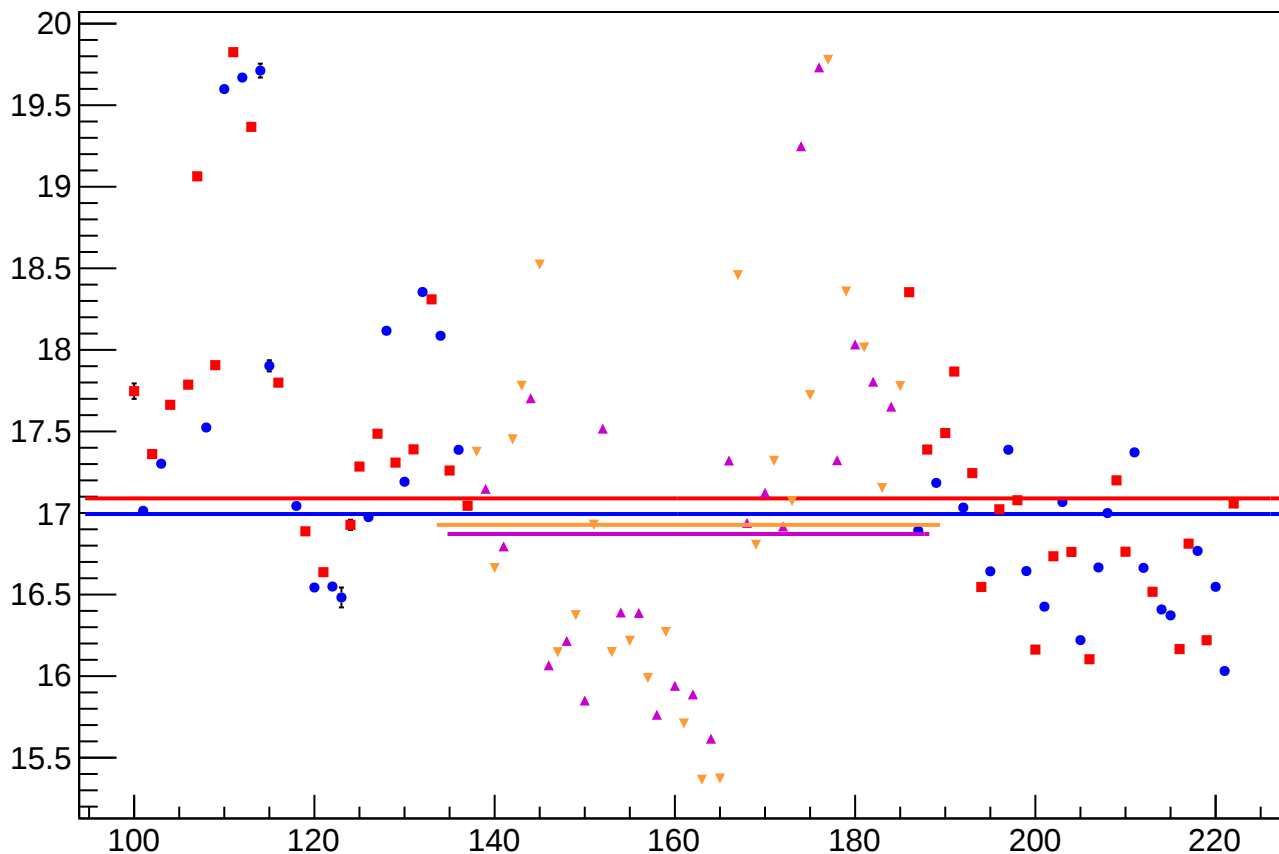
Left In: -7.756 ± 4.061 χ^2/NDF : 34.3/22

+ sign -0.594 ± 2.761 χ^2/NDF : 39.2/59

All: -2.117 ± 1.956 χ^2/NDF : 116.8/120

- sign -3.650 ± 2.771 χ^2/NDF : 77.0/60

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug



Right In: 16.994 $\pm$ 0.003 χ^2 /NDF: 66236.1/34

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.090 $\pm$ 0.003 χ^2 /NDF: 79886.2/37

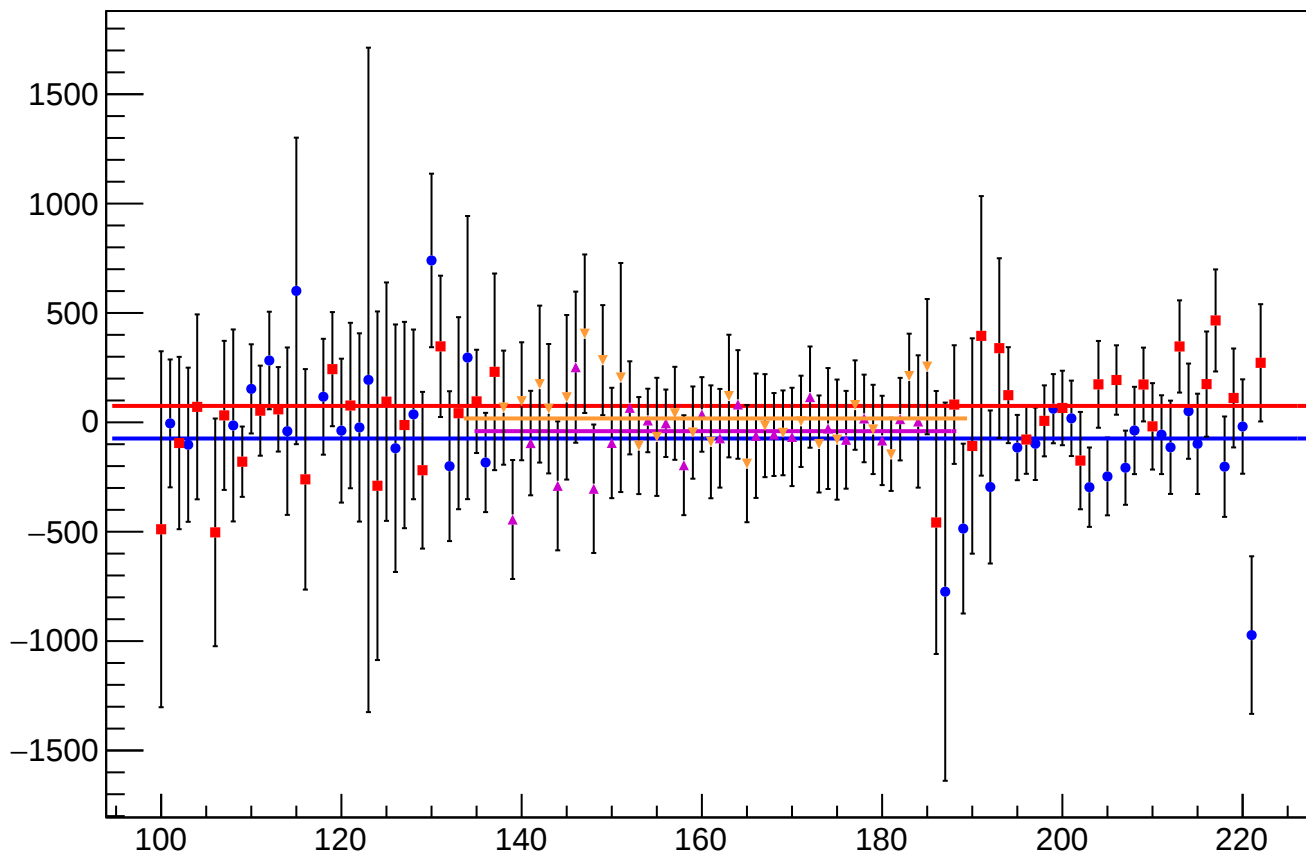
Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

+ sign 16.961 $\pm$ 0.002 χ^2 /NDF: 205058.6/59

All: 16.975 $\pm$ 0.001 χ^2 /NDF: 406121.3/120

- sign 16.988 $\pm$ 0.002 χ^2 /NDF: 200969.8/60

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug



Right In: -73.864 ± 41.243 χ^2/NDF : 23.8/34

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: 75.093 ± 40.960 χ^2/NDF : 17.7/37

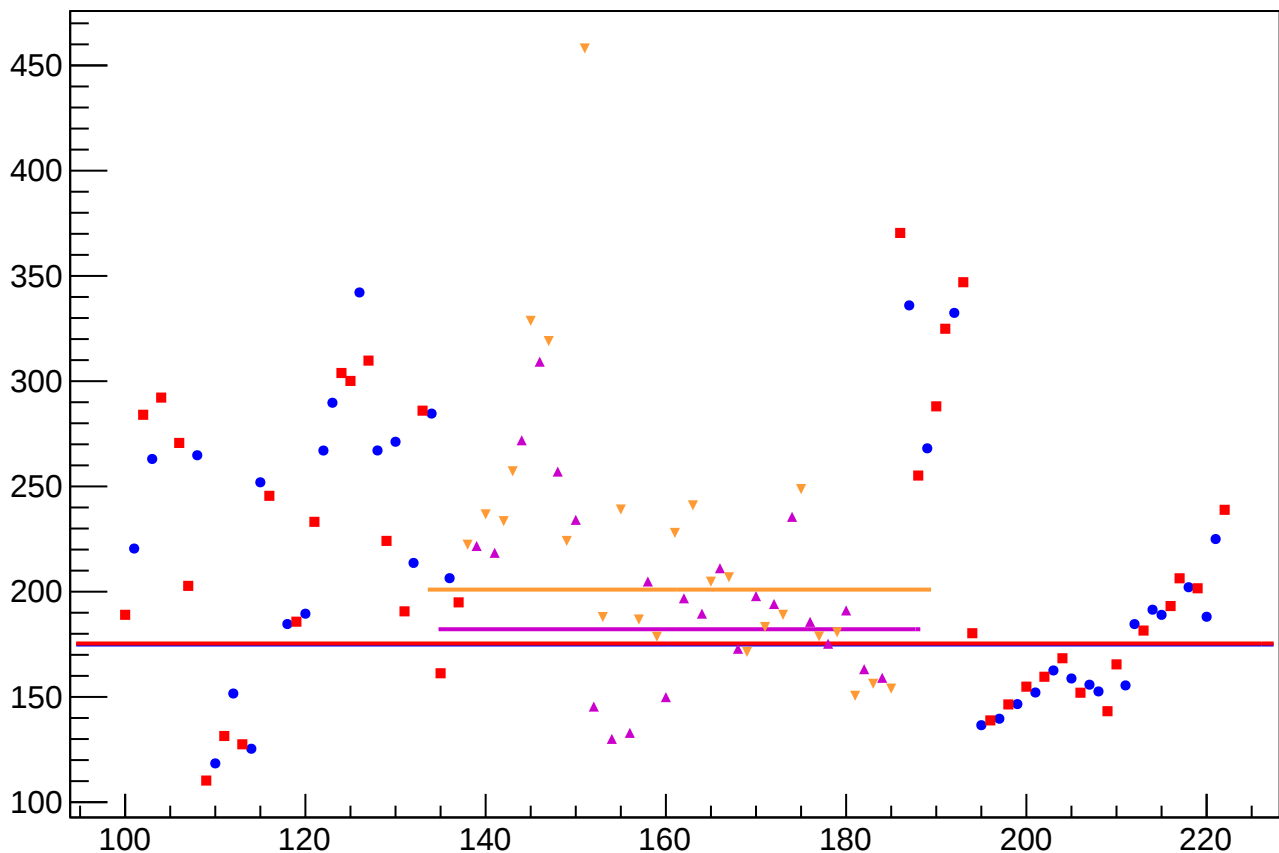
Left In: -40.355 ± 45.689 χ^2/NDF : 6.6/22

+ sign -35.428 ± 31.432 χ^2/NDF : 33.3/59

All: -4.998 ± 21.888 χ^2/NDF : 63.0/120

- sign 23.651 ± 30.498 χ^2/NDF : 27.9/60

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 174.906 $\pm$ 0.029 χ^2 /NDF: 2236665.9/34

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 175.394 $\pm$ 0.029 χ^2 /NDF: 2984677.7/37

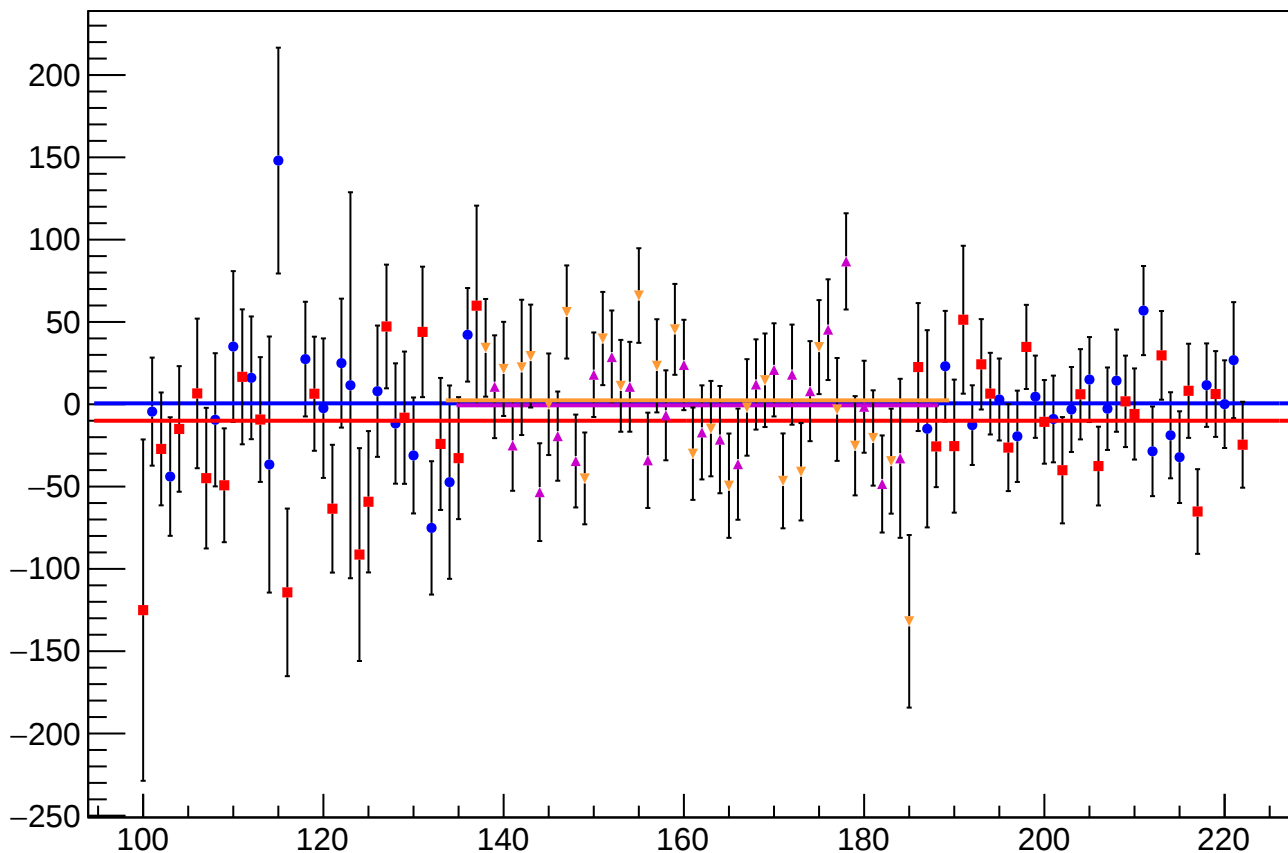
Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

+ sign 185.838 $\pm$ 0.022 χ^2 /NDF: 4299181.6/59

All: 182.011 $\pm$ 0.015 χ^2 /NDF: 8901652.1/120

- sign 178.408 $\pm$ 0.022 χ^2 /NDF: 4544907.0/60

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 0.562 ± 5.423 χ^2/NDF : 25.6/34

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: -10.008 ± 5.300 χ^2/NDF : 38.4/37

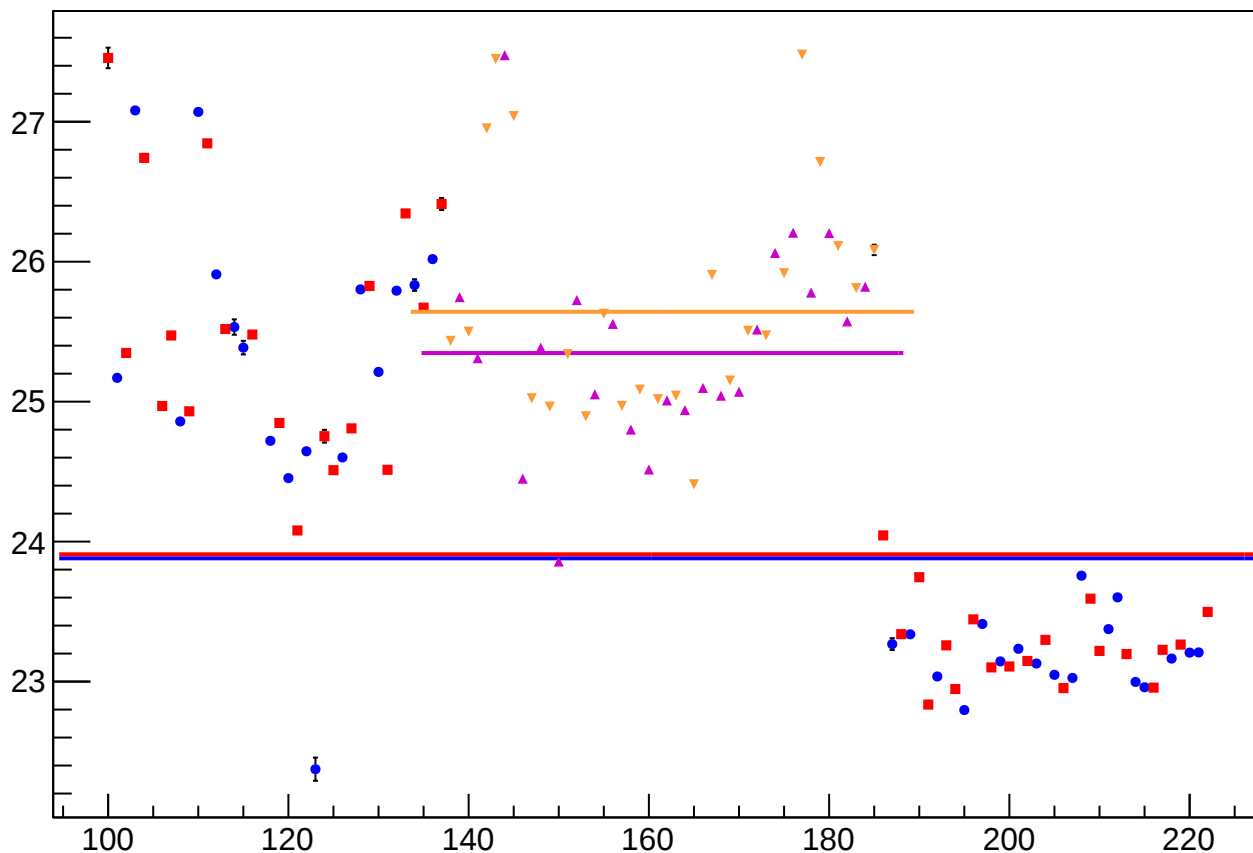
Left In: -0.641 ± 6.091 χ^2/NDF : 27.3/22

+ sign 1.387 ± 4.017 χ^2/NDF : 64.8/59

All: -2.310 ± 2.834 χ^2/NDF : 133.6/120

- sign -5.972 ± 3.998 χ^2/NDF : 67.1/60

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 23.880 $\pm$ 0.004 χ^2 /NDF: 92764.4/34

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 23.909 $\pm$ 0.004 χ^2 /NDF: 86424.1/37

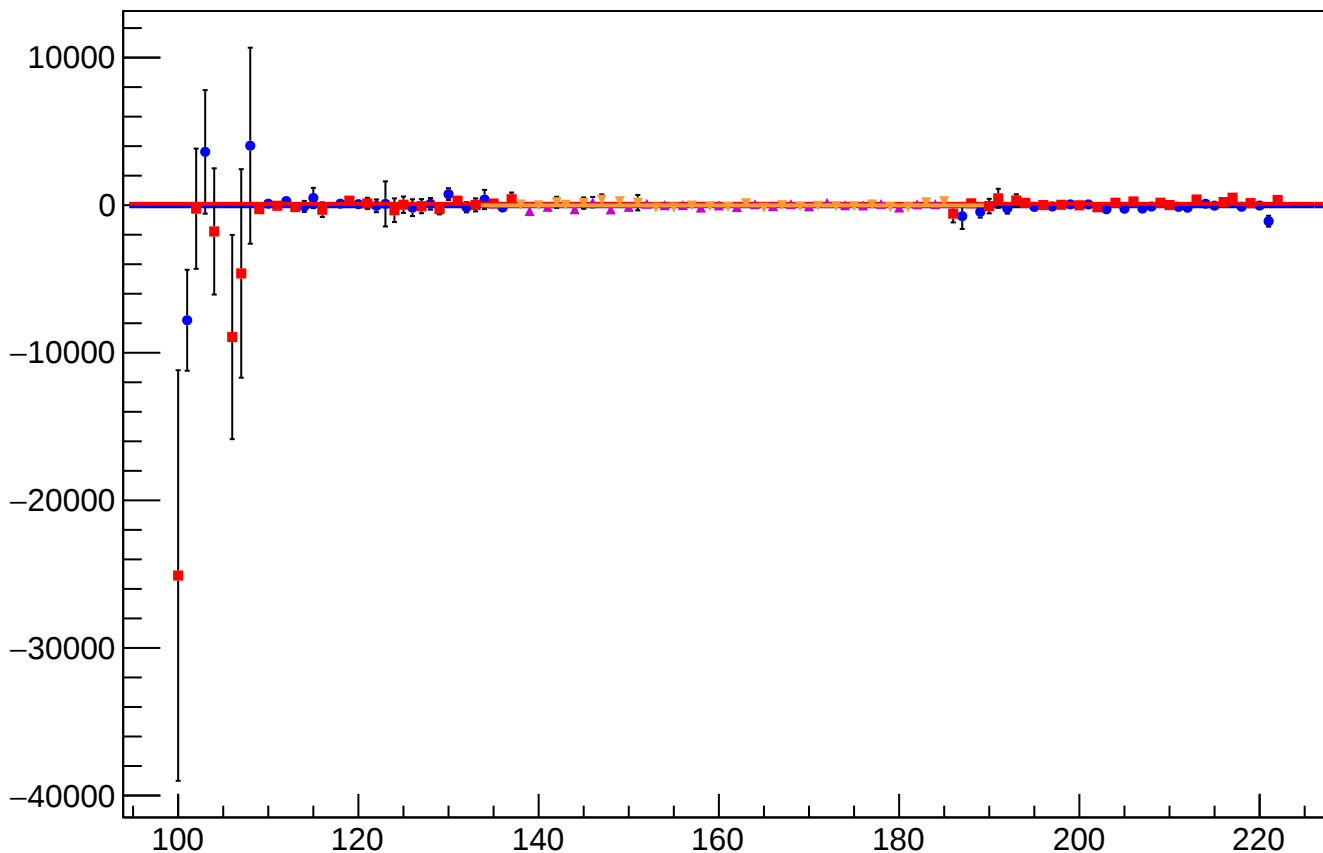
Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

+ sign 24.676 $\pm$ 0.003 χ^2 /NDF: 222832.2/59

All: 24.602 $\pm$ 0.002 χ^2 /NDF: 403431.5/120

- sign 24.529 $\pm$ 0.003 χ^2 /NDF: 179261.9/60

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug



Right In: -71.990 ± 42.936 χ^2/NDF : 29.9/34

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: 91.951 ± 43.246 χ^2/NDF : 25.4/37

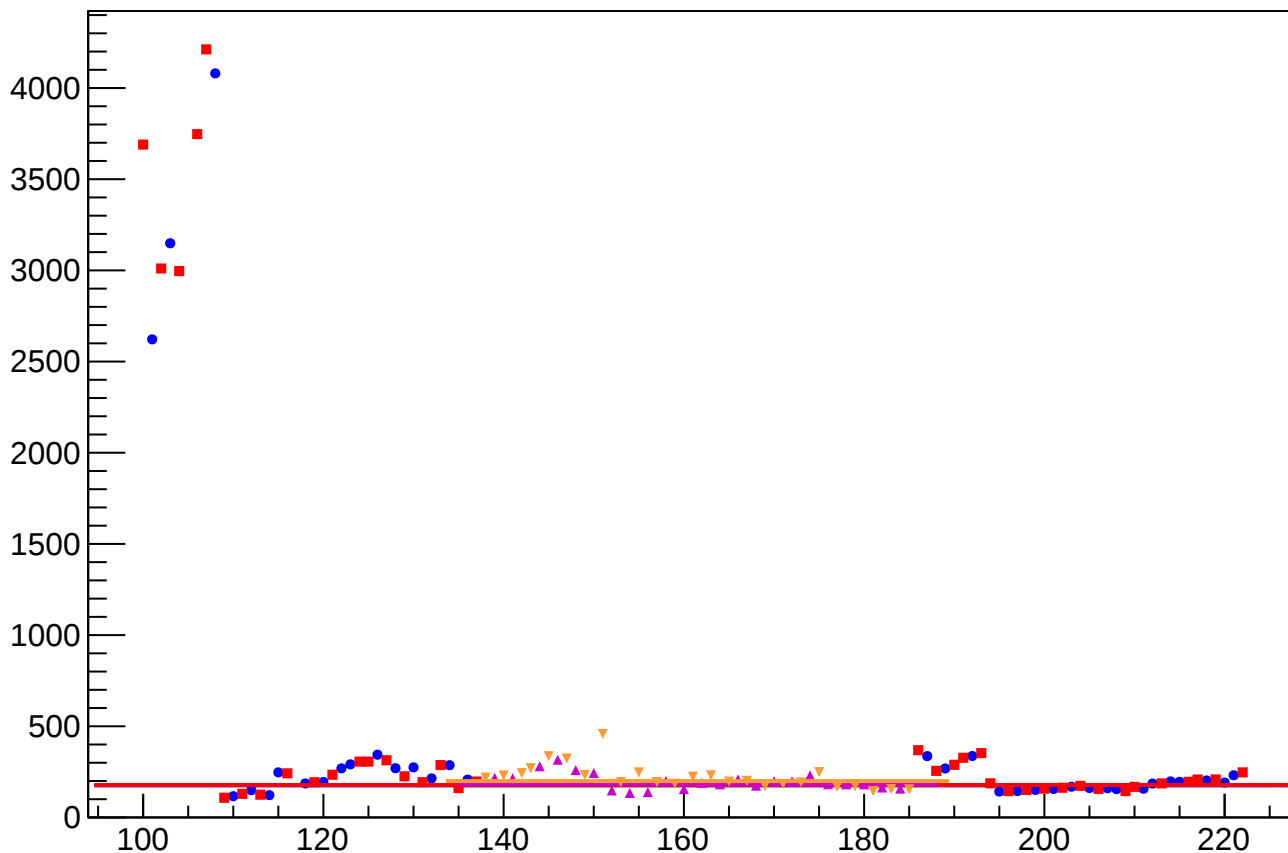
Left In: -27.098 ± 45.999 χ^2/NDF : 7.2/22

+ sign -45.236 ± 32.079 χ^2/NDF : 38.8/59

All: -3.840 ± 22.478 χ^2/NDF : 78.3/120

- sign 36.096 ± 31.508 χ^2/NDF : 36.1/60

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug



Right In: 176.074 $\pm$ 0.030 χ^2 /NDF: 4657040.4/34

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 177.662 $\pm$ 0.031 χ^2 /NDF: 5629645.8/37

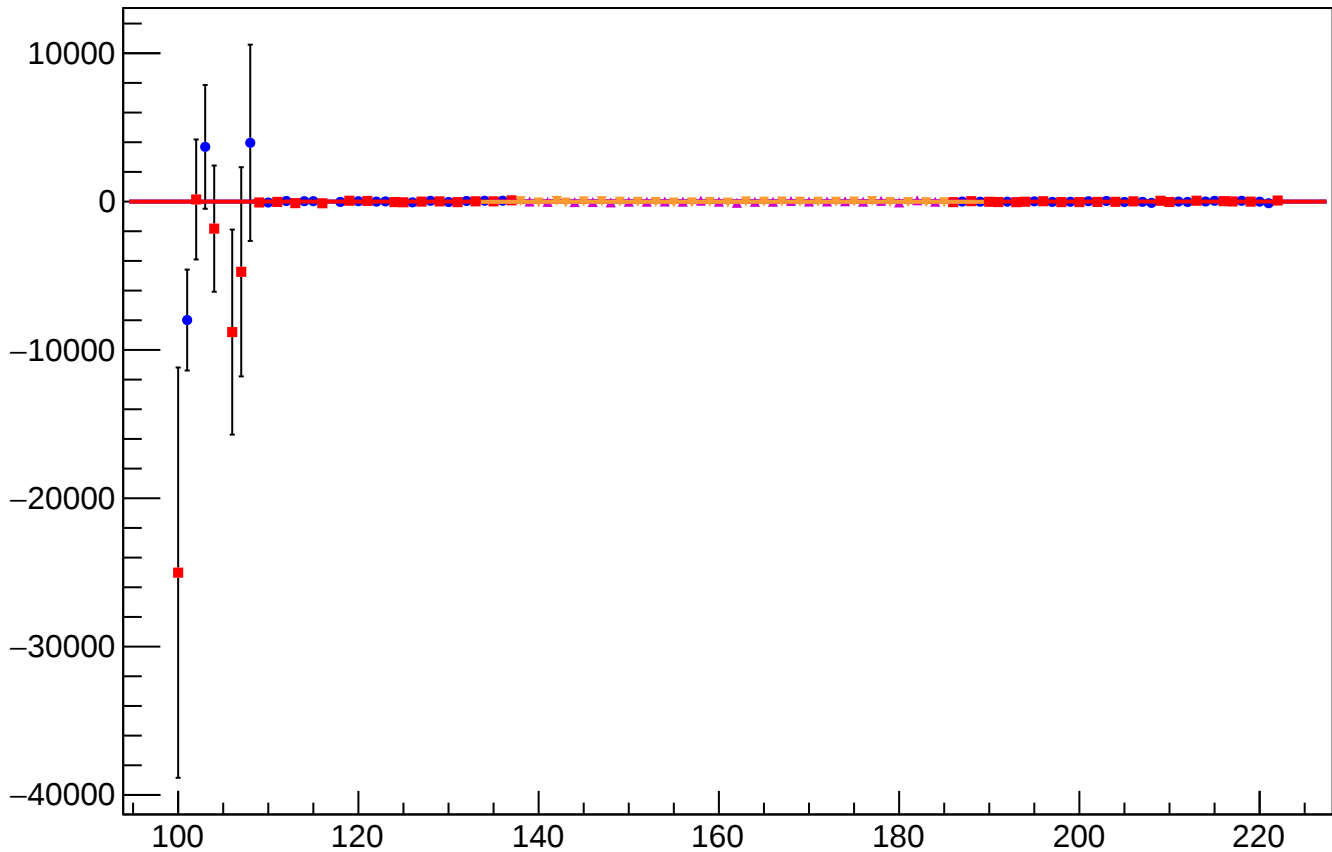
Left In: 183.805 $\pm$ 0.033 χ^2 /NDF: 1412869.6/22

+ sign 186.396 $\pm$ 0.023 χ^2 /NDF: 6796534.4/59

All: 183.417 $\pm$ 0.016 χ^2 /NDF: 13891852.3/12

- sign 180.544 $\pm$ 0.022 χ^2 /NDF: 7061448.3/60

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug



Right In: 0.906 ± 6.501 χ^2/NDF : 41.4/34

Left Out: -18.118 ± 6.704 χ^2/NDF : 21.7/24

Right Out: -1.060 ± 6.484 χ^2/NDF : 43.3/37

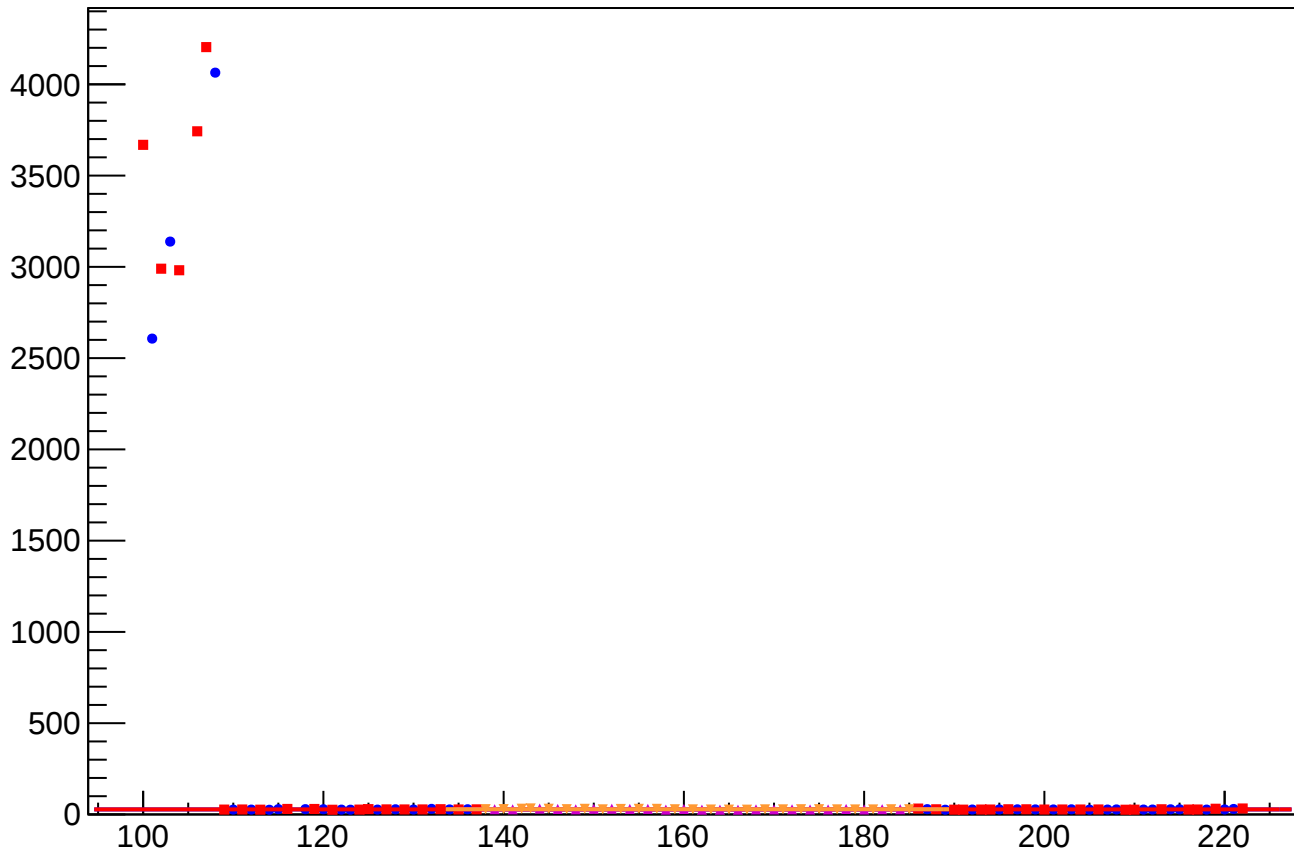
Left In: -1.267 ± 6.908 χ^2/NDF : 32.0/22

+ sign -8.314 ± 4.667 χ^2/NDF : 67.3/59

All: -4.782 ± 3.321 χ^2/NDF : 143.8/120

- sign -1.157 ± 4.728 χ^2/NDF : 75.3/60

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug



Right In: 27.508 $\pm$ 0.005 χ^2 /NDF: 3051858.2/34

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.727 $\pm$ 0.005 χ^2 /NDF: 3575982.2/37

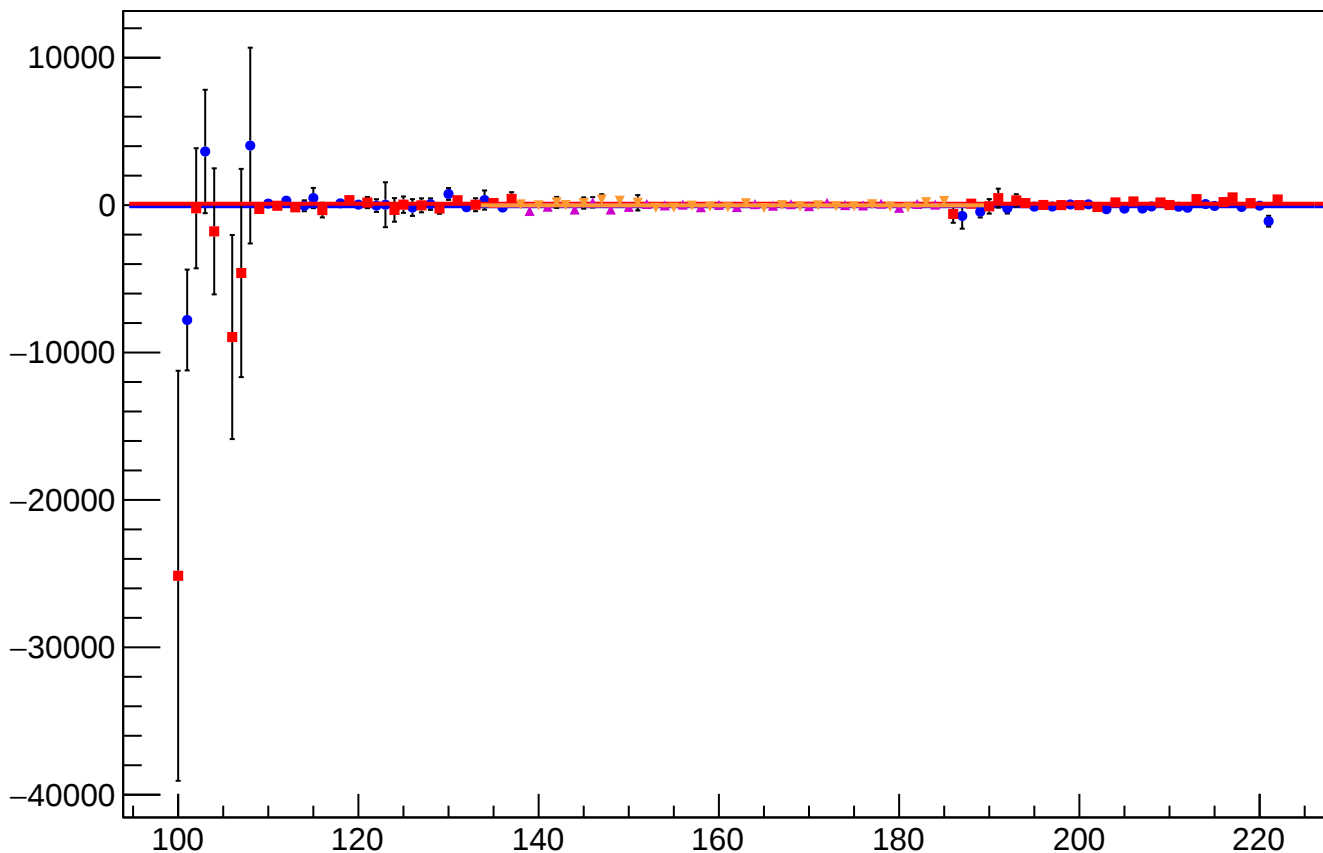
Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

+ sign 28.083 $\pm$ 0.003 χ^2 /NDF: 3194569.2/59

All: 28.127 $\pm$ 0.002 χ^2 /NDF: 6914840.6/120

- sign 28.172 $\pm$ 0.003 χ^2 /NDF: 3719913.0/60

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug



Right In: -73.855 ± 42.804 χ^2/NDF : 30.2/34

Left Out: -13.878 ± 48.155 χ^2/NDF : 8.8/24

Right Out: 94.857 ± 43.121 χ^2/NDF : 26.6/37

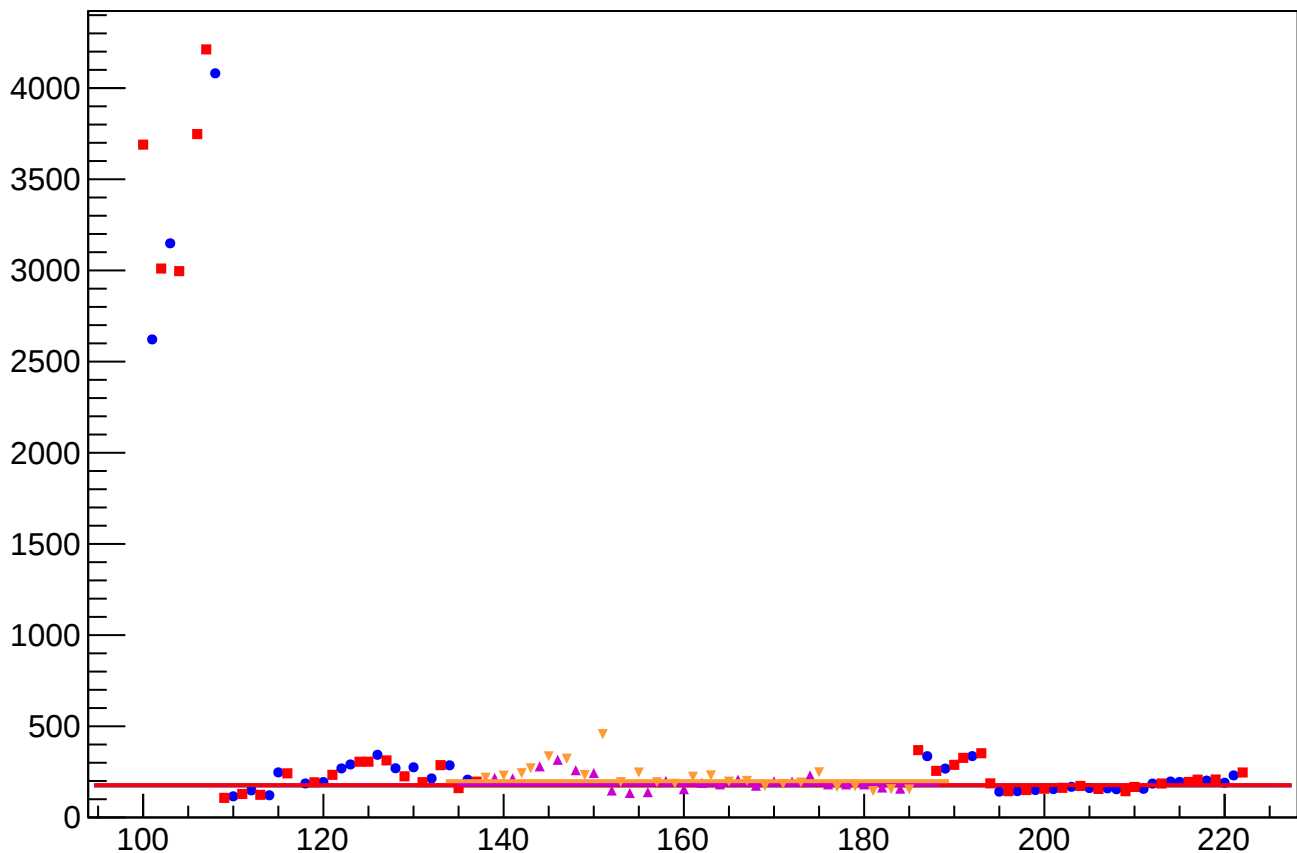
Left In: -27.286 ± 45.907 χ^2/NDF : 7.5/22

+ sign -47.383 ± 31.992 χ^2/NDF : 39.9/59

All: -4.136 ± 22.420 χ^2/NDF : 81.4/120

- sign 37.605 ± 31.430 χ^2/NDF : 37.8/60

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug



Right In: 175.498 $\pm$ 0.030 χ^2 /NDF: 4670459.2/34

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 177.103 $\pm$ 0.030 χ^2 /NDF: 5648238.9/37

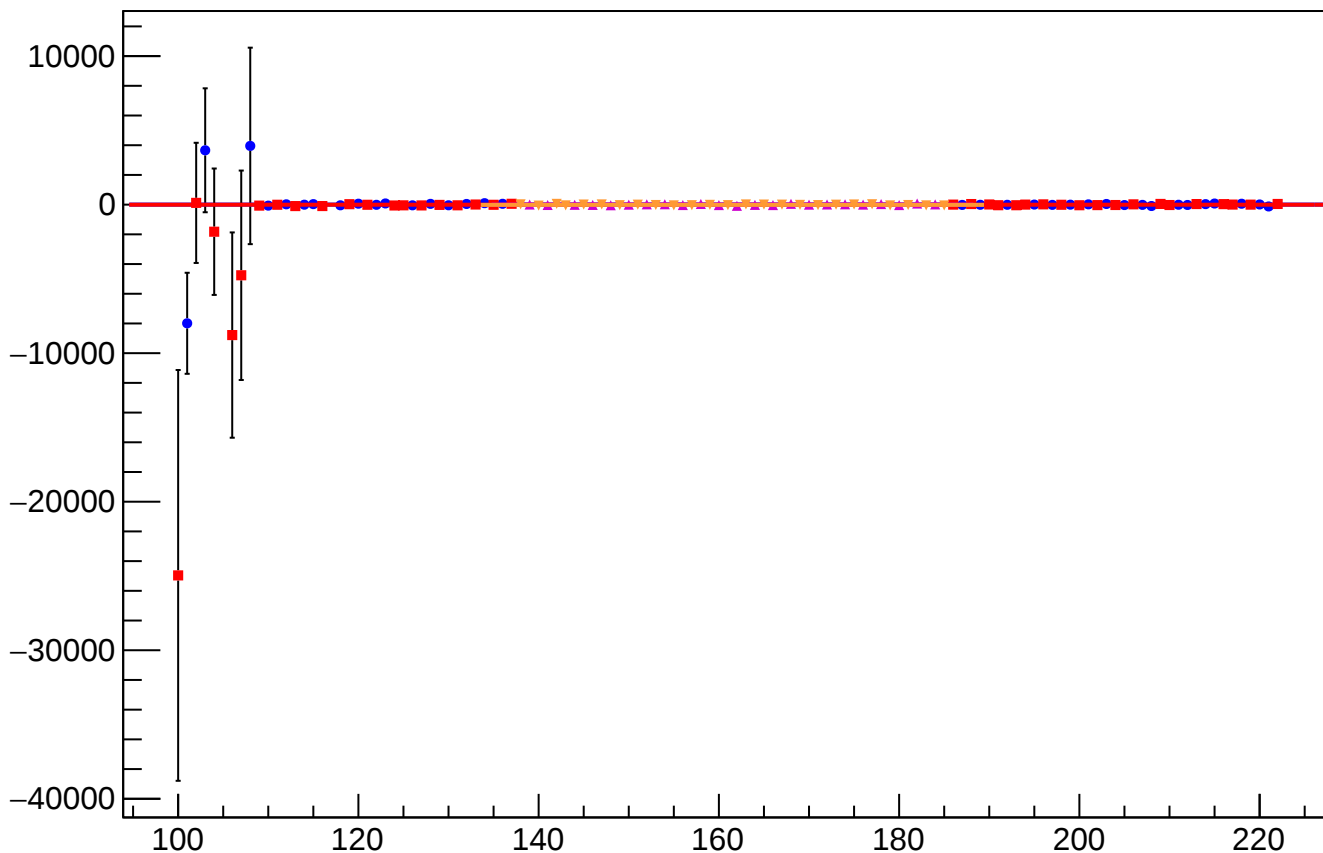
Left In: 183.442 $\pm$ 0.032 χ^2 /NDF: 1412341.8/22

+ sign 185.870 $\pm$ 0.023 χ^2 /NDF: 6814129.8/59

All: 182.920 $\pm$ 0.016 χ^2 /NDF: 13928367.5/12

- sign 180.074 $\pm$ 0.022 χ^2 /NDF: 7080838.1/60

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug



Right In: 2.630 $\pm$ 6.456 χ^2 /NDF: 52.6/34

Left Out: -15.829 $\pm$ 6.733 χ^2 /NDF:16.5/24

Right Out: -4.770 $\pm$ 6.450 χ^2 /NDF: 36.5/37

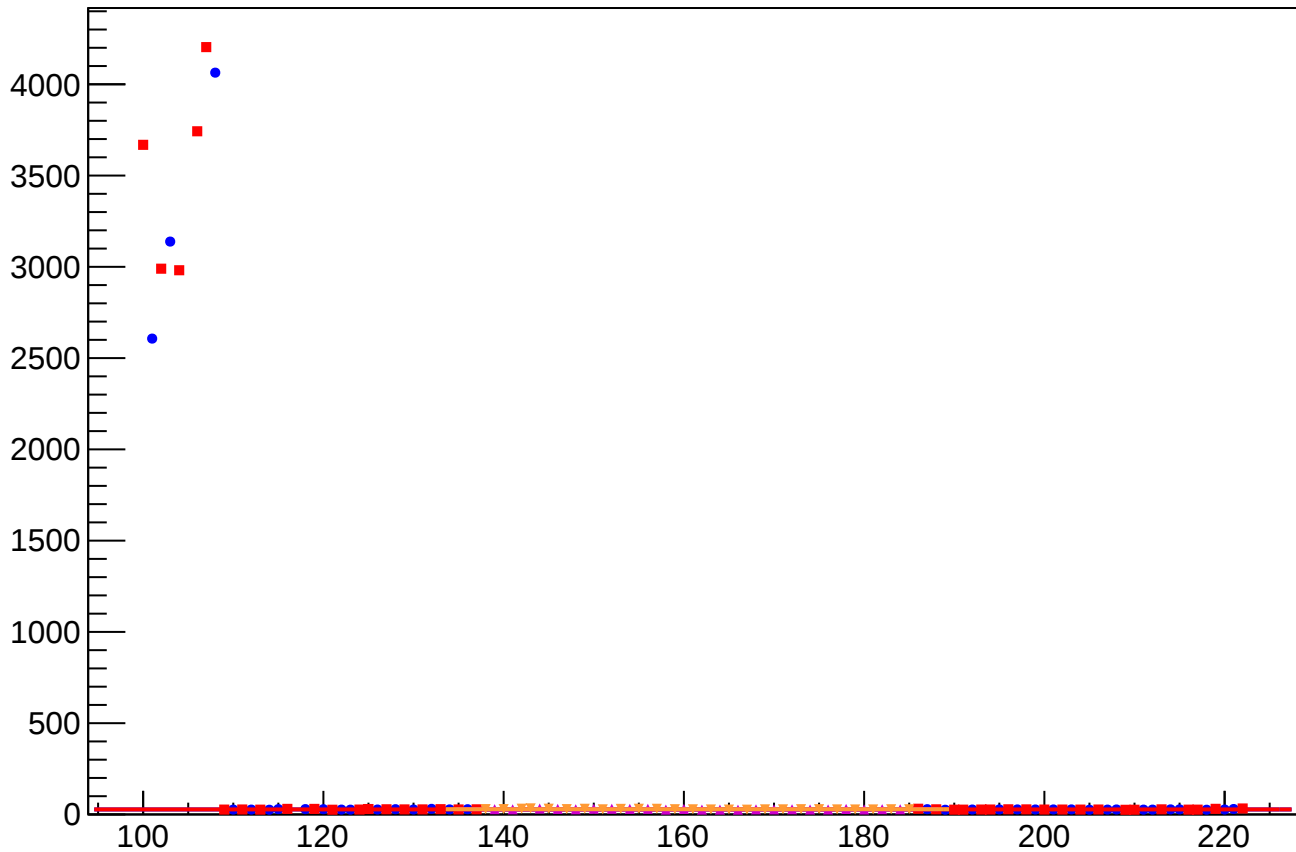
Left In: 0.498 $\pm$ 6.937 χ^2 /NDF:26.1/22

+ sign -6.212 $\pm$ 4.660 χ^2 /NDF: 73.0/59

All: -4.296 $\pm$ 3.317 χ^2 /NDF: 136.2/120

- sign -2.327 $\pm$ 4.724 χ^2 /NDF: 62.9/60

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug



Right In: 27.312 $\pm$ 0.005 χ^2 /NDF: 3062161.8/34

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.578 $\pm$ 0.005 χ^2 /NDF: 3582308.4/37

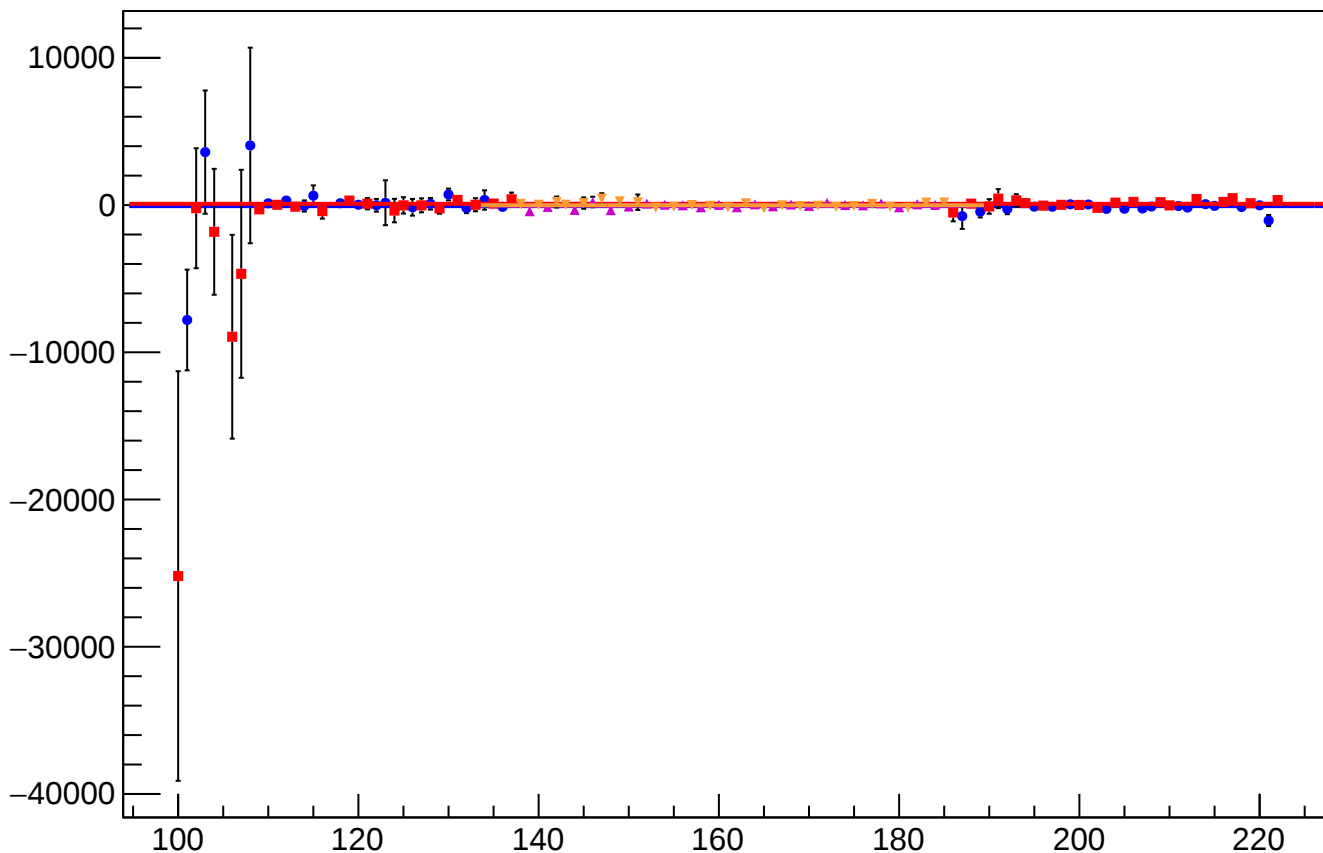
Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

+ sign 28.031 $\pm$ 0.003 χ^2 /NDF: 3236209.5/59

All: 28.087 $\pm$ 0.002 χ^2 /NDF: 6980483.3/120

- sign 28.144 $\pm$ 0.003 χ^2 /NDF: 3743701.8/60

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug



Right In: -71.753 ± 43.094 χ^2/NDF : 29.7/34

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: 85.180 ± 43.435 χ^2/NDF : 25.1/37

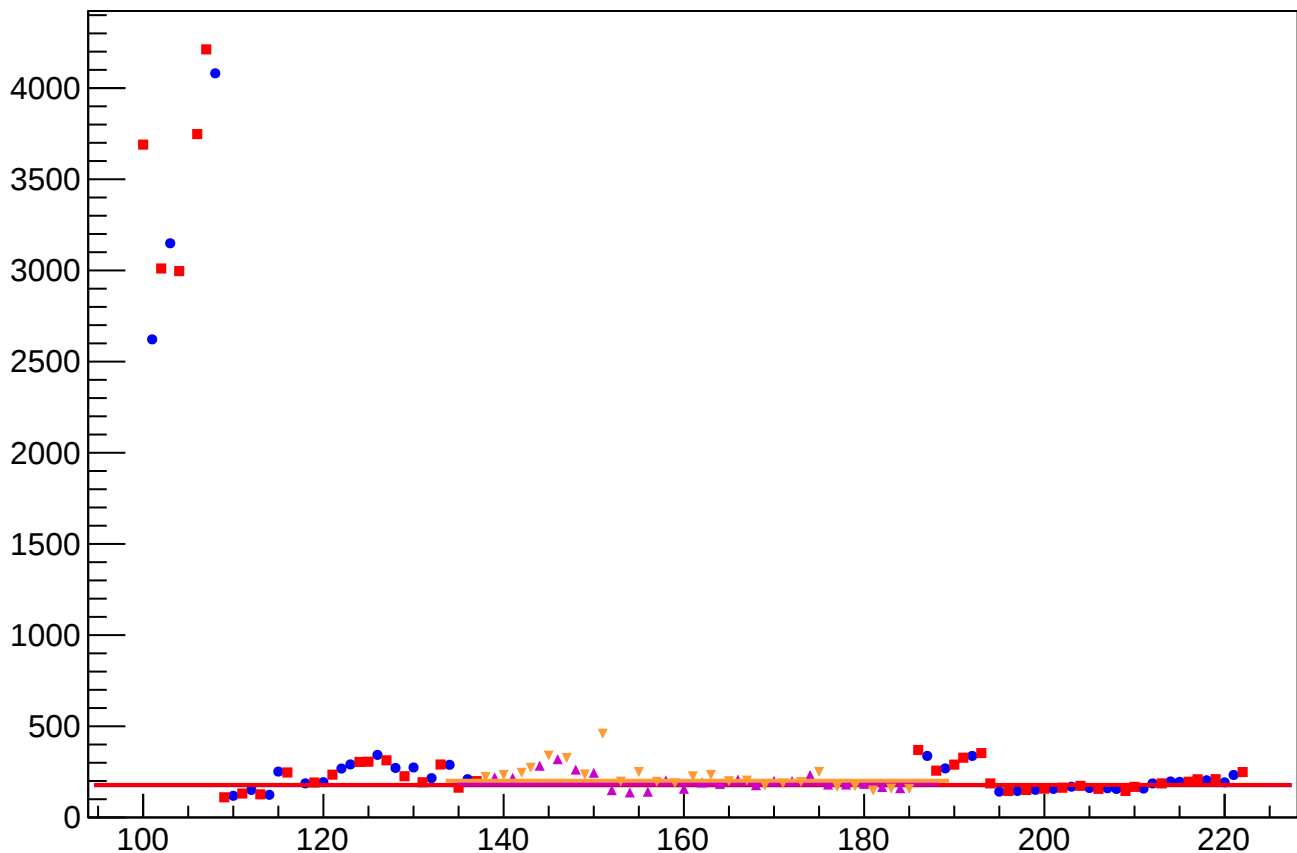
Left In: -31.477 ± 46.483 χ^2/NDF : 7.8/22

+ sign -46.396 ± 32.283 χ^2/NDF : 38.6/59

All: -7.138 ± 22.632 χ^2/NDF : 77.9/120

- sign 30.801 ± 31.736 χ^2/NDF : 36.3/60

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug



Right In: 176.775 $\pm$ 0.030 χ^2 /NDF: 4636868.8/34

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 178.568 $\pm$ 0.031 χ^2 /NDF: 5588815.3/37

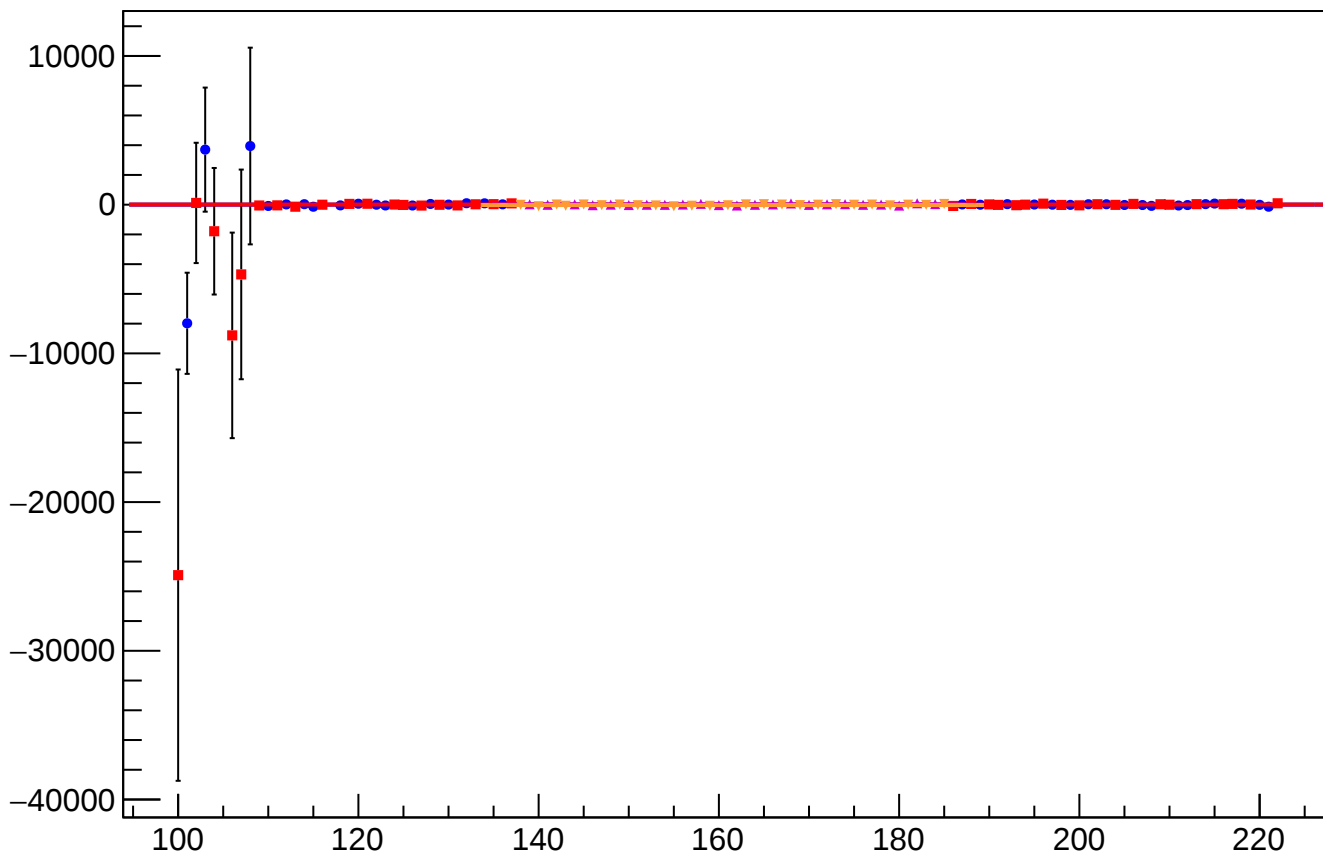
Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

+ sign 187.626 $\pm$ 0.023 χ^2 /NDF: 6780726.7/59

All: 184.752 $\pm$ 0.016 χ^2 /NDF: 13807984.2/12

- sign 181.976 $\pm$ 0.022 χ^2 /NDF: 6996103.9/60

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug



Right In: 2.055+/-7.866 χ^2/NDF : 43.8/34

Left Out: -24.144+/-8.076 χ^2/NDF :24.9/24

Right Out: 9.552+/-7.840 χ^2/NDF : 42.2/37

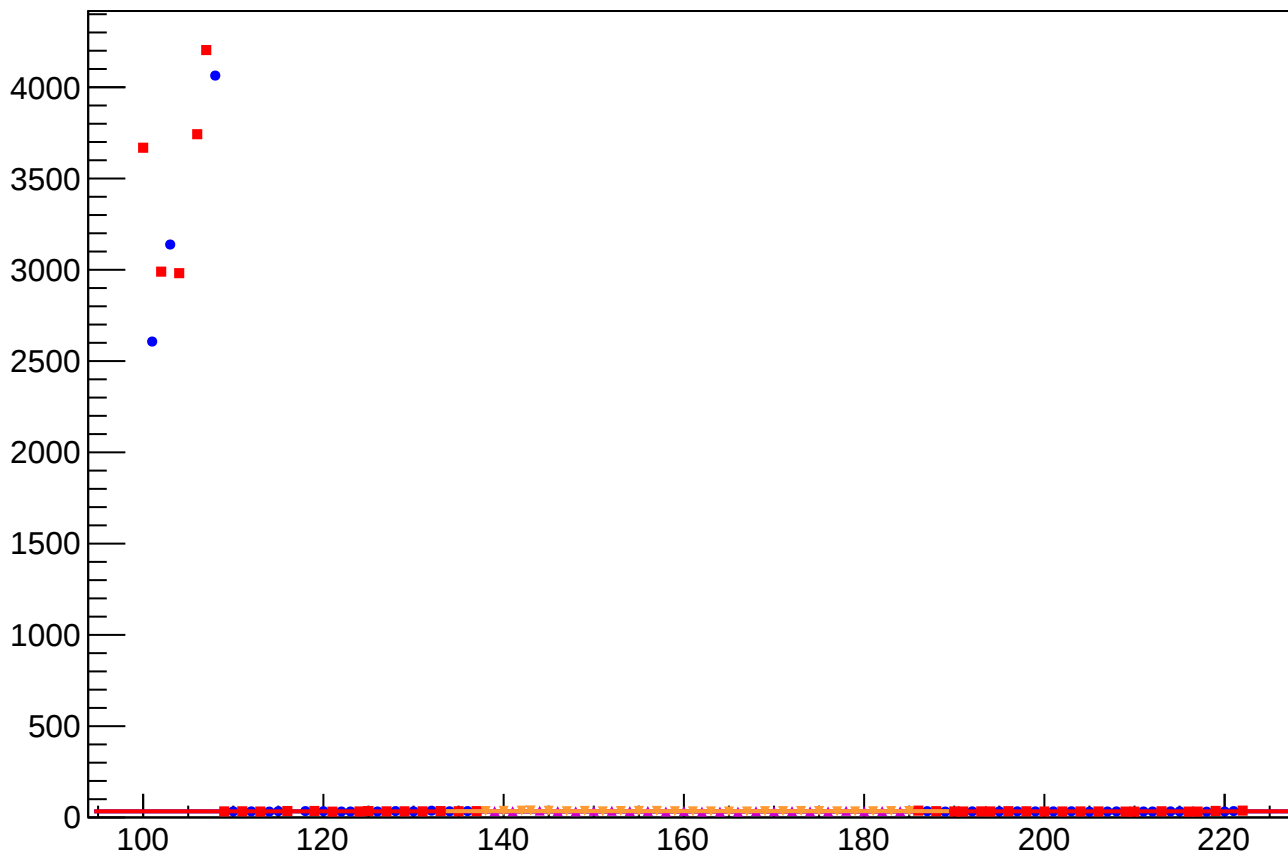
Left In: 5.924+/-8.340 χ^2/NDF :21.0/22

+ sign -10.698+/-5.635 χ^2/NDF : 74.1/59

All: -1.550+/-4.011 χ^2/NDF : 142.7/120

- sign 7.850+/-5.712 χ^2/NDF : 63.3/60

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug



Right In: 33.299+/-0.006 χ^2/NDF : 3026535.6/34

Left Out: 34.617+/-0.006 χ^2/NDF : 57868.4/24

Right Out: 33.581+/-0.006 χ^2/NDF : 3502735.9/37

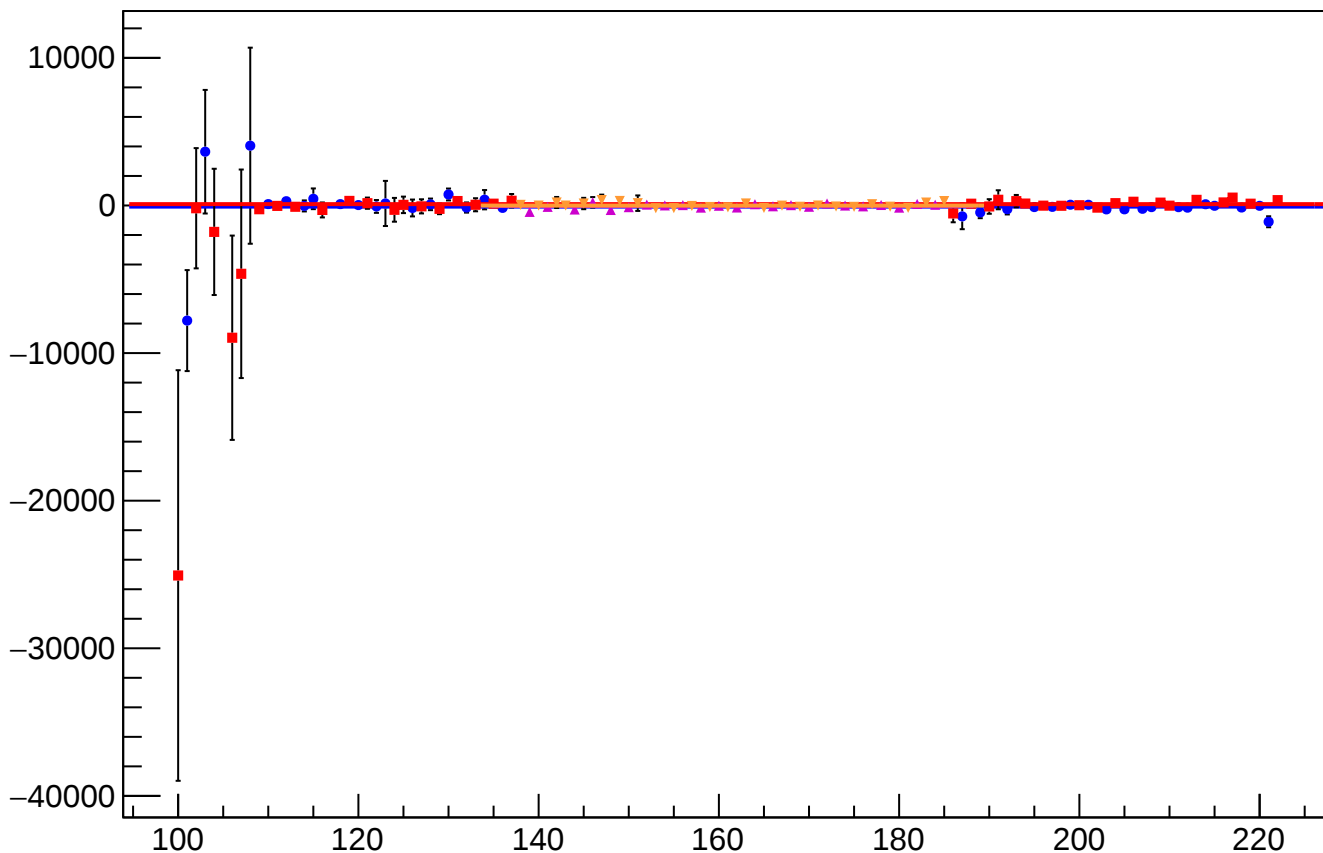
Left In: 34.682+/-0.006 χ^2/NDF : 59834.3/22

+ sign 33.941+/-0.004 χ^2/NDF : 3111769.7/59

All: 34.018+/-0.003 χ^2/NDF : 6693589.1/120

- sign 34.098+/-0.004 χ^2/NDF : 3581055.0/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug



Right In: -76.136 ± 42.973 χ^2/NDF : 30.2/34

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: 91.500 ± 43.282 χ^2/NDF : 24.5/37

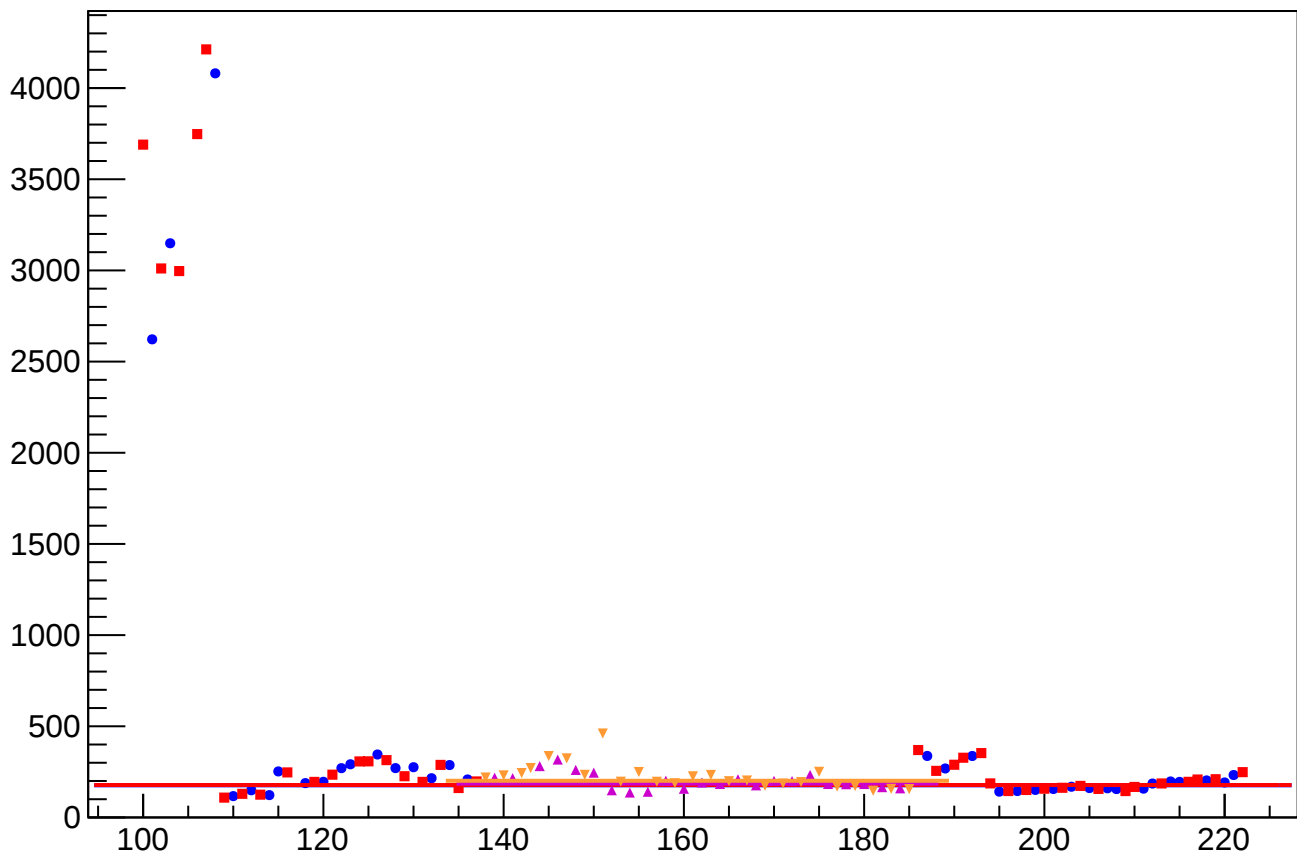
Left In: -34.977 ± 46.421 χ^2/NDF : 7.1/22

+ sign -46.088 ± 32.211 χ^2/NDF : 40.1/59

All: -6.020 ± 22.578 χ^2/NDF : 78.7/120

- sign 32.681 ± 31.656 χ^2/NDF : 35.6/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 176.206 $\pm$ 0.030 χ^2 /NDF: 4667116.1/34

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 177.795 $\pm$ 0.031 χ^2 /NDF: 5640394.8/37

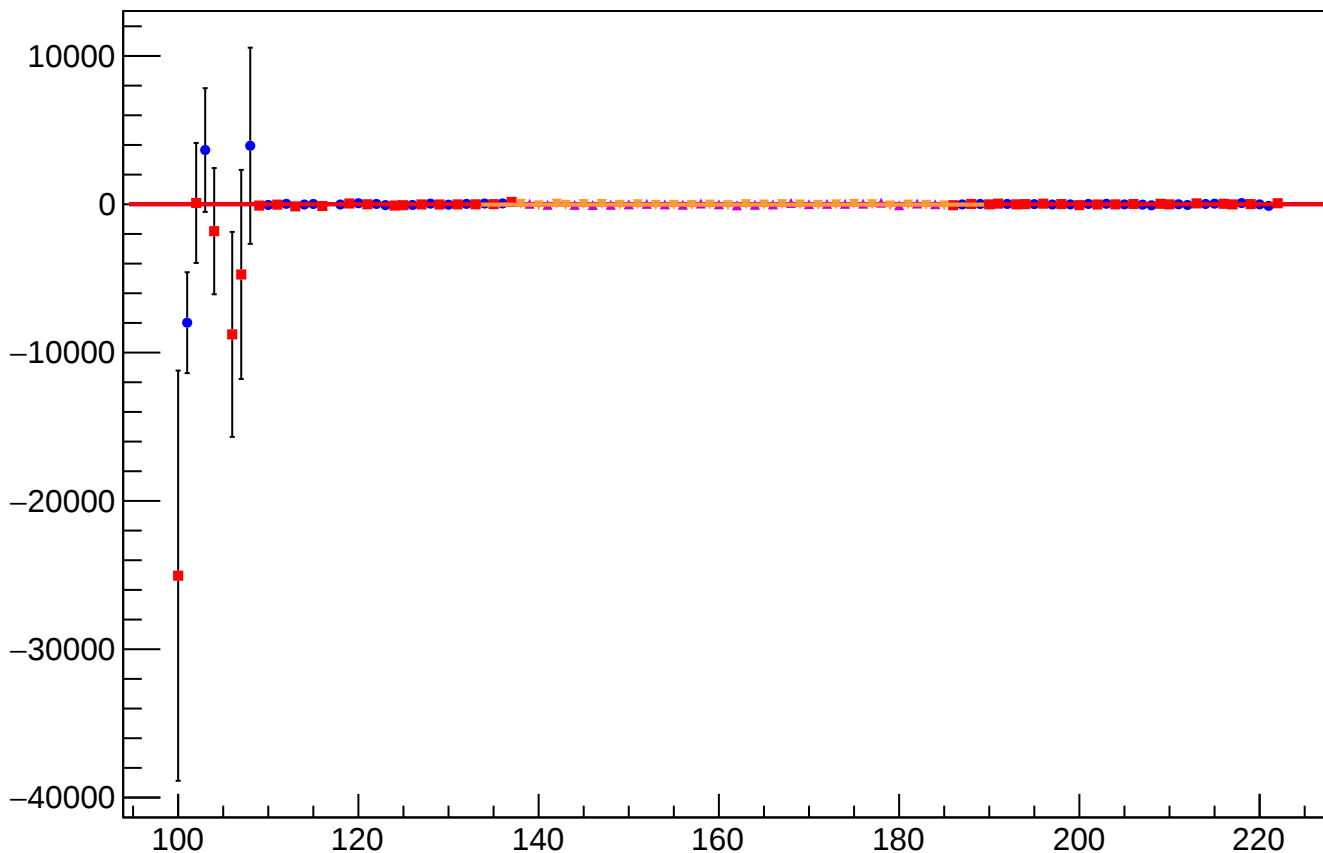
Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

+ sign 187.156 $\pm$ 0.023 χ^2 /NDF: 6811961.2/59

All: 184.247 $\pm$ 0.016 χ^2 /NDF: 13886292.3/12

- sign 181.438 $\pm$ 0.022 χ^2 /NDF: 7042263.2/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 5.631+/-7.114 χ^2/NDF : 36.5/34

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 1.784+/-7.102 χ^2/NDF : 45.8/37

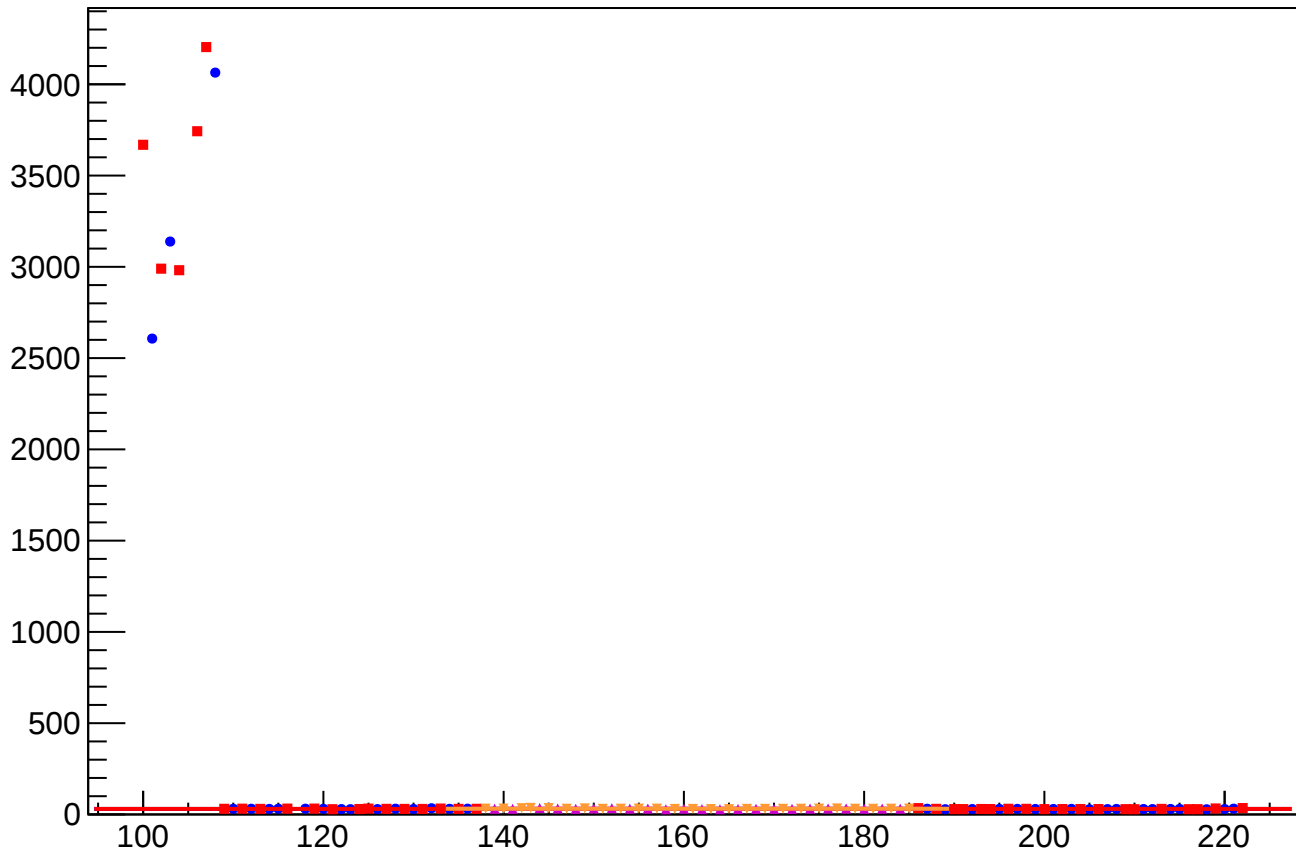
Left In: 6.386+/-7.577 χ^2/NDF :38.7/22

+ sign -8.368+/-5.112 χ^2/NDF : 62.9/59

All: -2.299+/-3.639 χ^2/NDF : 150.4/120

- sign 3.936+/-5.181 χ^2/NDF : 84.7/60

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 30.105 $\pm$ 0.005 χ^2 /NDF: 3047705.4/34

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.390 $\pm$ 0.005 χ^2 /NDF: 3536813.6/37

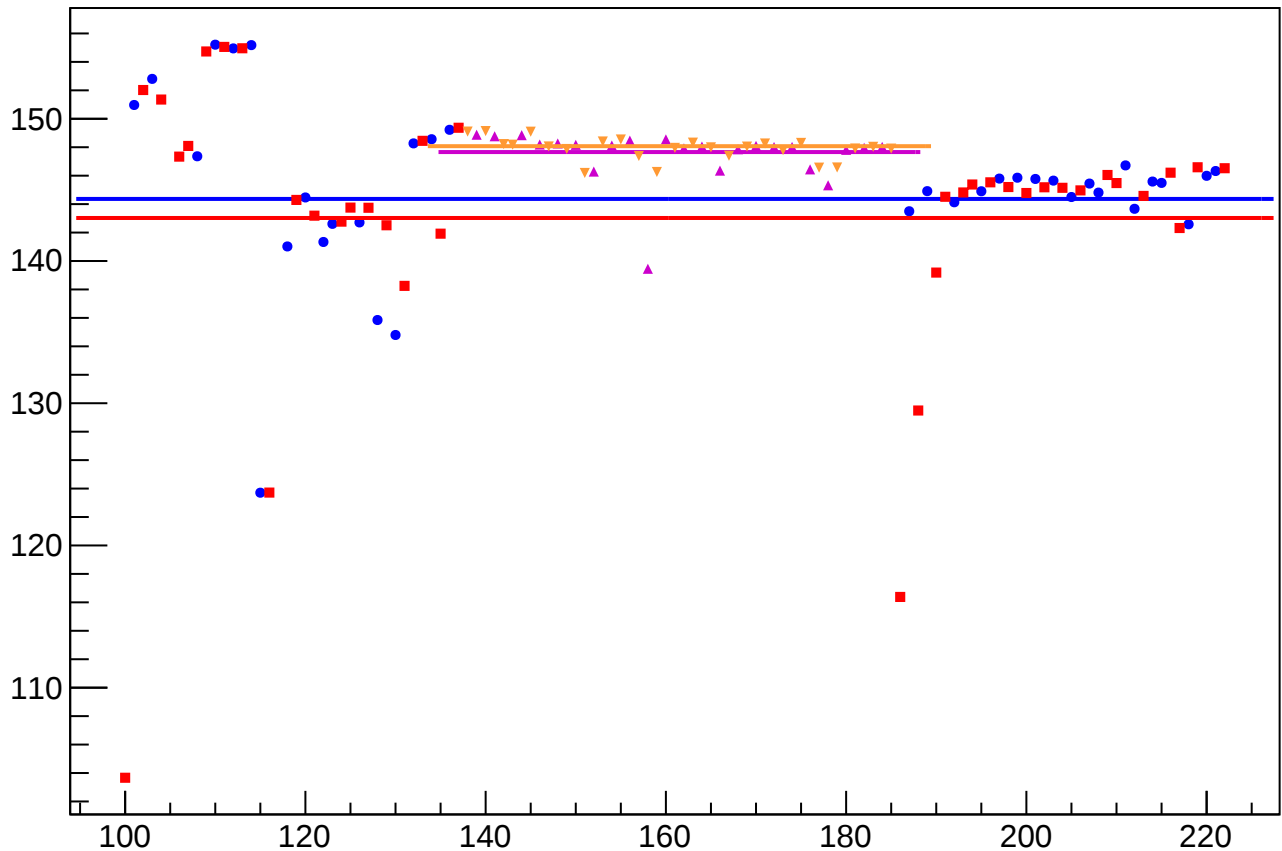
Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

+ sign 30.774 $\pm$ 0.004 χ^2 /NDF: 3166222.3/59

All: 30.835 $\pm$ 0.003 χ^2 /NDF: 6813251.4/120

- sign 30.898 $\pm$ 0.004 χ^2 /NDF: 3646450.8/60

yield_bcm_an_ds_mean vs Slug



Right In: 144.365 $\pm$ 0.000 χ^2 /NDF: 3520824345.6/34

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 143.025 $\pm$ 0.000 χ^2 /NDF: 7511502230.0/37

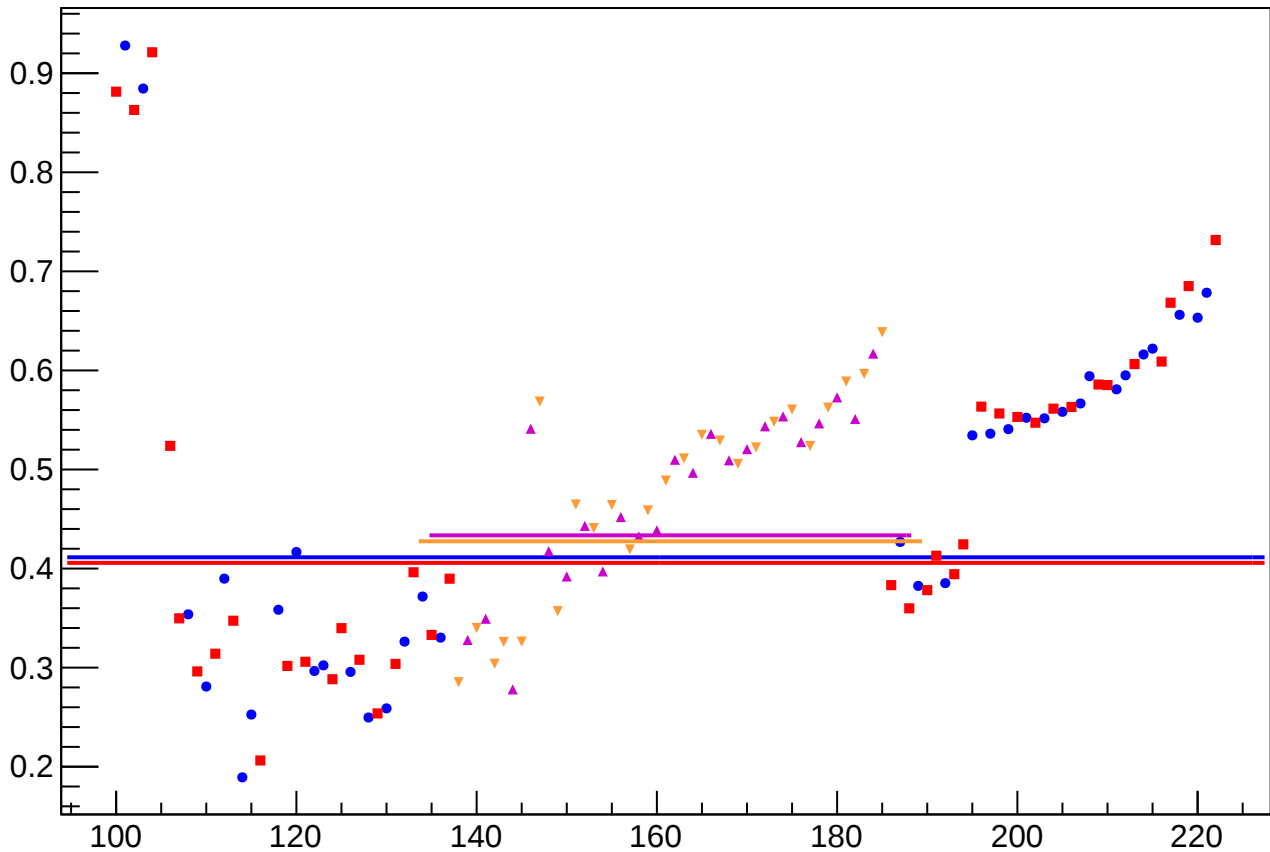
Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

+ sign 146.175 $\pm$ 0.000 χ^2 /NDF: 4238781882.1/59

All: 145.637 $\pm$ 0.000 χ^2 /NDF: 13220740840.0

- sign 145.104 $\pm$ 0.000 χ^2 /NDF: 8872733318.9/60

yield_bcm_an_ds_rms vs Slug



Right In: 0.411 $\pm$ 0.000 χ^2 /NDF: 4201868.9/34

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.406 $\pm$ 0.000 χ^2 /NDF: 4113451.3/37

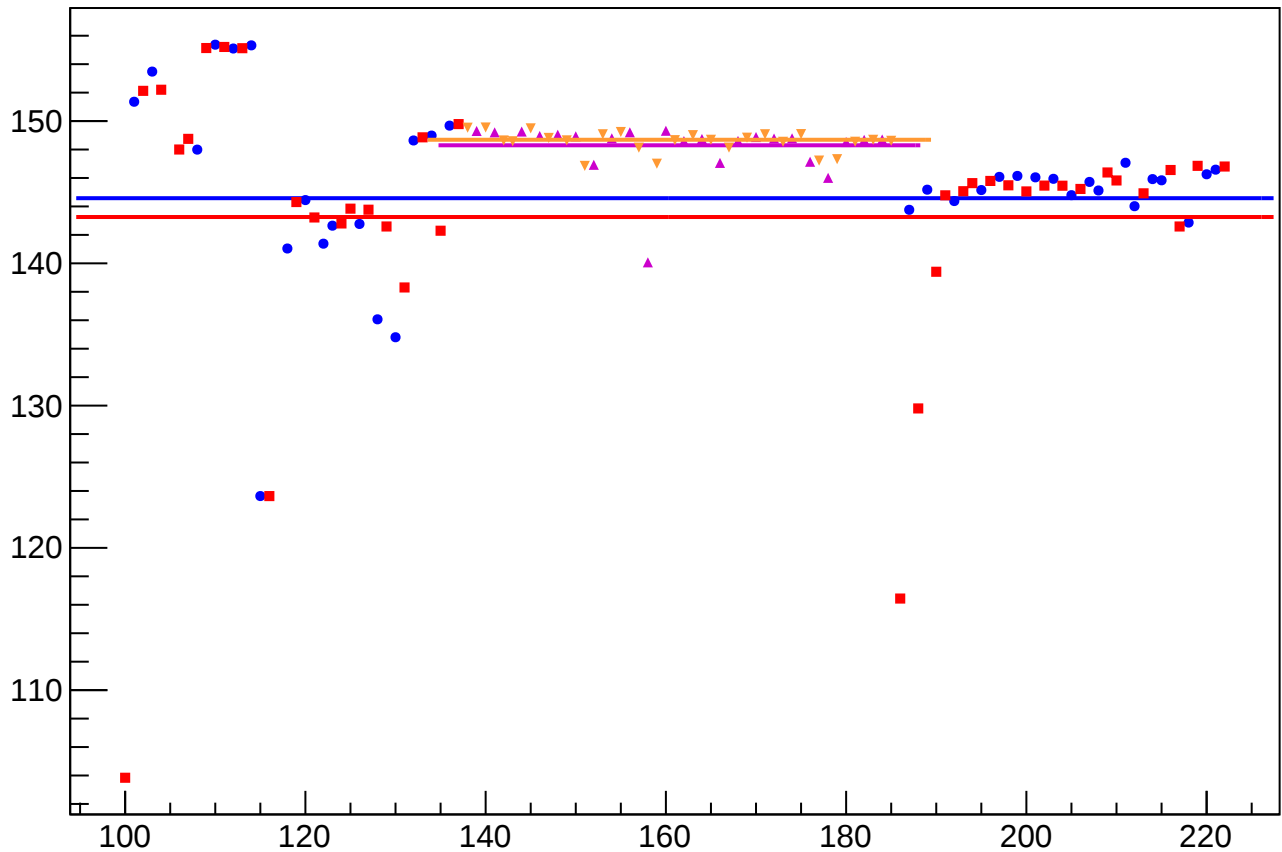
Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

+ sign 0.419 $\pm$ 0.000 χ^2 /NDF: 6119411.6/59

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 11785333.4/120

- sign 0.418 $\pm$ 0.000 χ^2 /NDF: 5665715.0/60

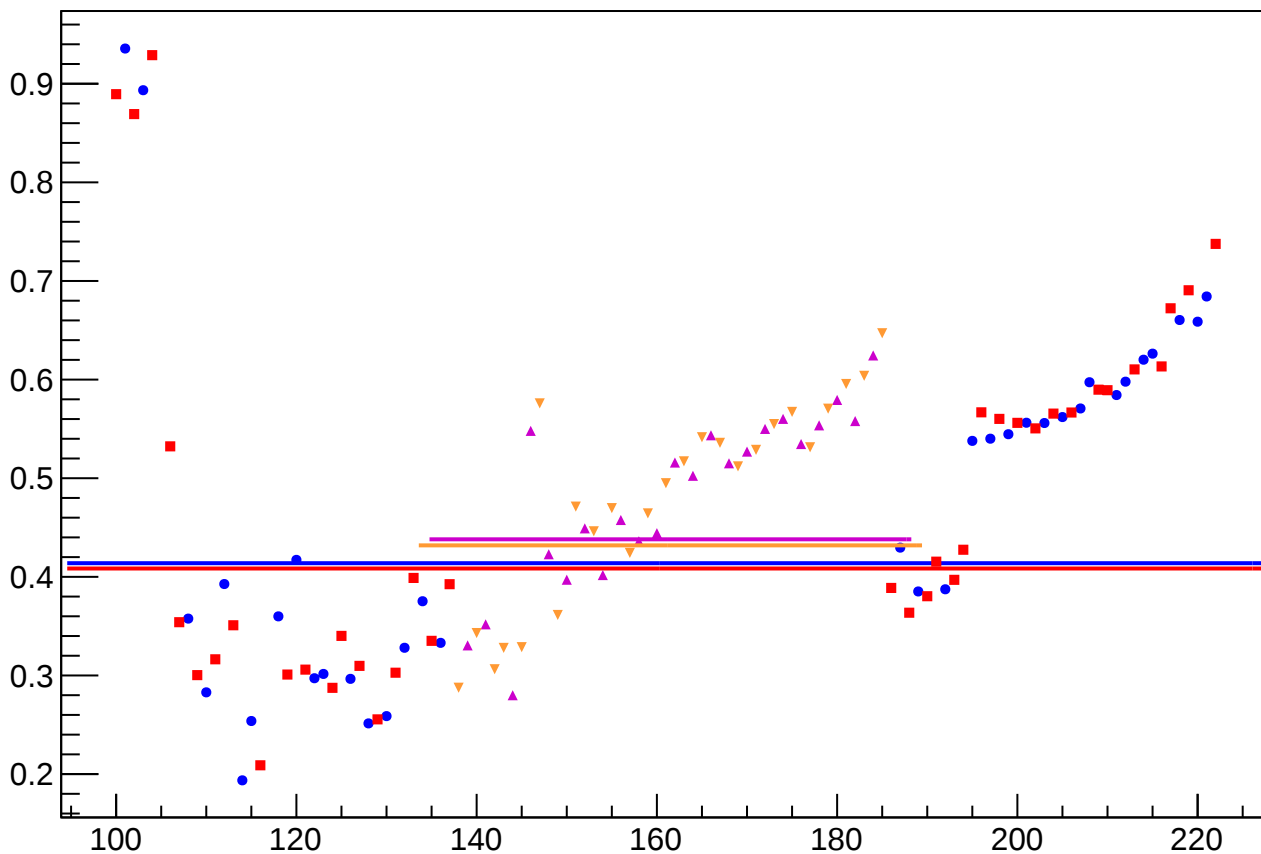
yield_bcm_an_ds3_mean vs Slug



Right In: 144.580 ± 0.000 χ^2/NDF : 3571702282.5/34
 Left Out: 148.687 ± 0.000 χ^2/NDF : 52285197.5/24
 Right Out: 143.256 ± 0.000 χ^2/NDF : 7464500733.6/37
 Left In: 148.298 ± 0.000 χ^2/NDF : 332527463.6/22

+ sign 146.575 ± 0.000 χ^2/NDF : 4410507313.3/59
 All: 146.039 ± 0.000 χ^2/NDF : 13496404739.
 - sign 145.507 ± 0.000 χ^2/NDF : 8979145890.0/60

yield_bcm_an_ds3_rms vs Slug



Right In: 0.414 $\pm$ 0.000 χ^2 /NDF: 4212982.6/34

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.408 $\pm$ 0.000 χ^2 /NDF: 4119651.8/37

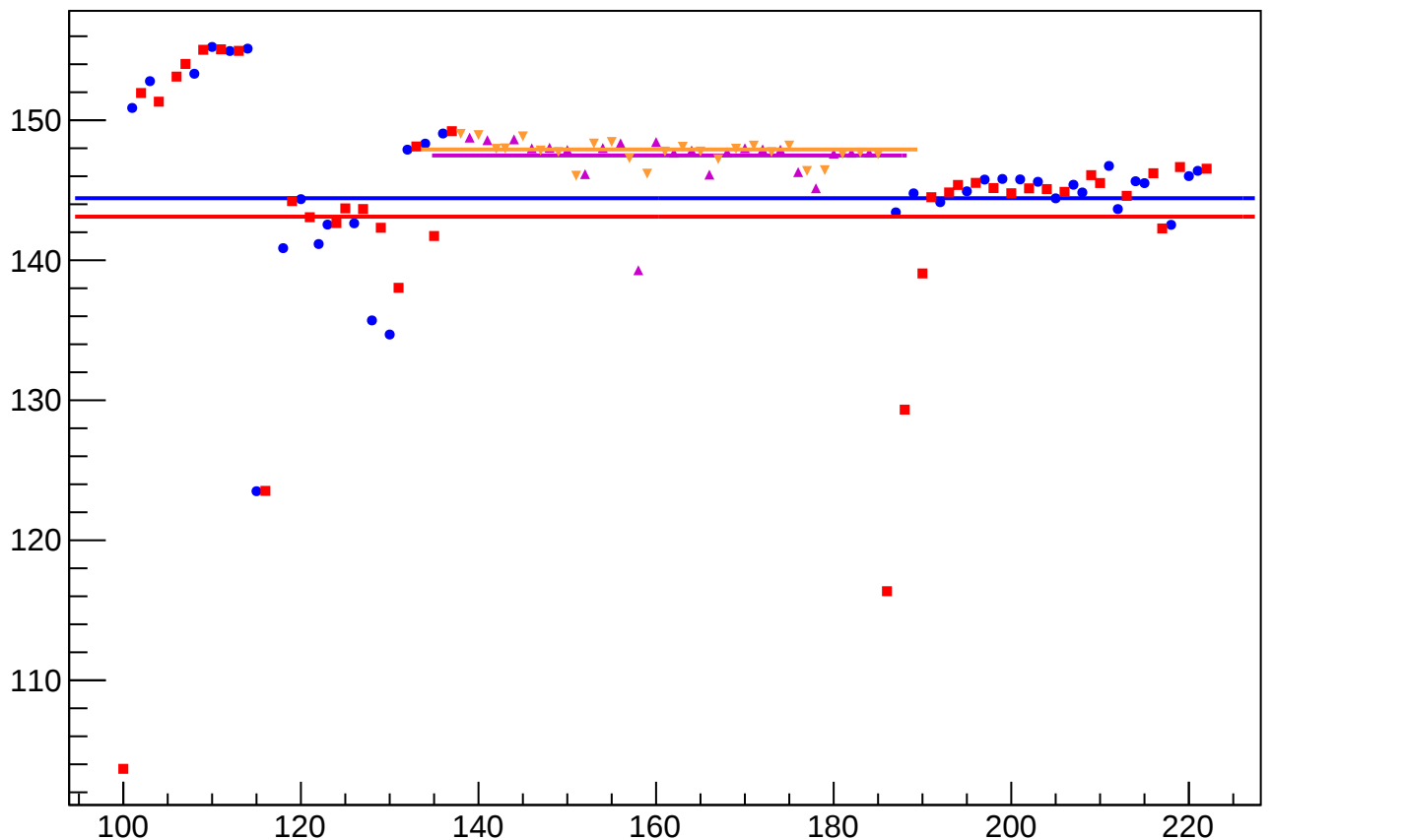
Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

+ sign 0.423 $\pm$ 0.000 χ^2 /NDF: 6168418.8/59

All: 0.422 $\pm$ 0.000 χ^2 /NDF: 11874344.4/120

- sign 0.422 $\pm$ 0.000 χ^2 /NDF: 5705757.9/60

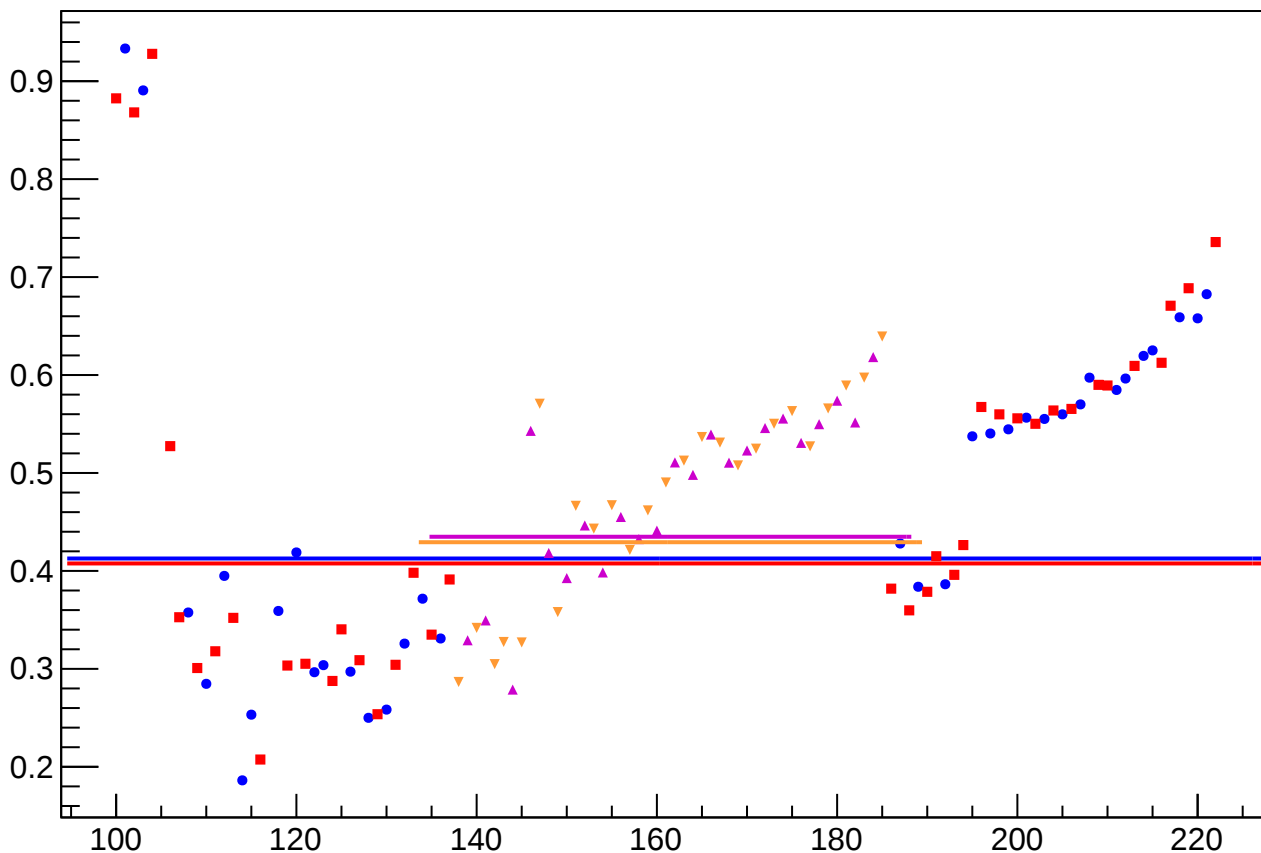
yield_bcm_an_us_mean vs Slug



Right In: 144.432 ± 0.000 χ^2/NDF : 3726235767.1/34
 Left Out: 147.912 ± 0.000 χ^2/NDF : 64463426.1/24
 Right Out: 143.113 ± 0.000 χ^2/NDF : 7883659198.6/37
 Left In: 147.483 ± 0.000 χ^2/NDF : 342674720.4/22

+ sign 146.130 ± 0.000 χ^2/NDF : 4360366356.9/59
 All: 145.601 ± 0.000 χ^2/NDF : 13589297423.
 - sign 145.076 ± 0.000 χ^2/NDF : 9123979587.6/60

yield_bcm_an_us_rms vs Slug



Right In: 0.413 $\pm$ 0.000 χ^2 /NDF: 4245747.3/34

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.408 $\pm$ 0.000 χ^2 /NDF: 4122649.1/37

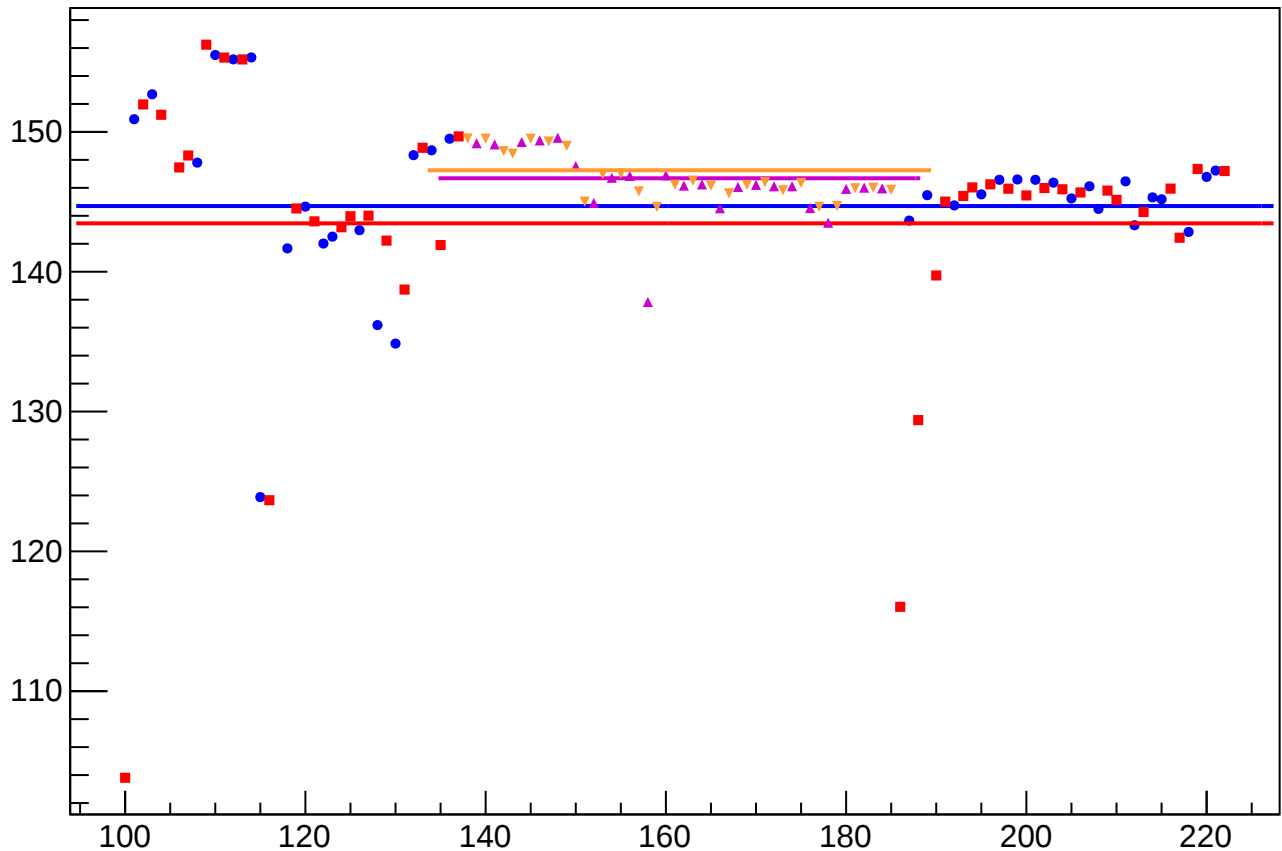
Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

+ sign 0.421 $\pm$ 0.000 χ^2 /NDF: 6163473.2/59

All: 0.420 $\pm$ 0.000 χ^2 /NDF: 11842023.7/120

- sign 0.420 $\pm$ 0.000 χ^2 /NDF: 5678389.5/60

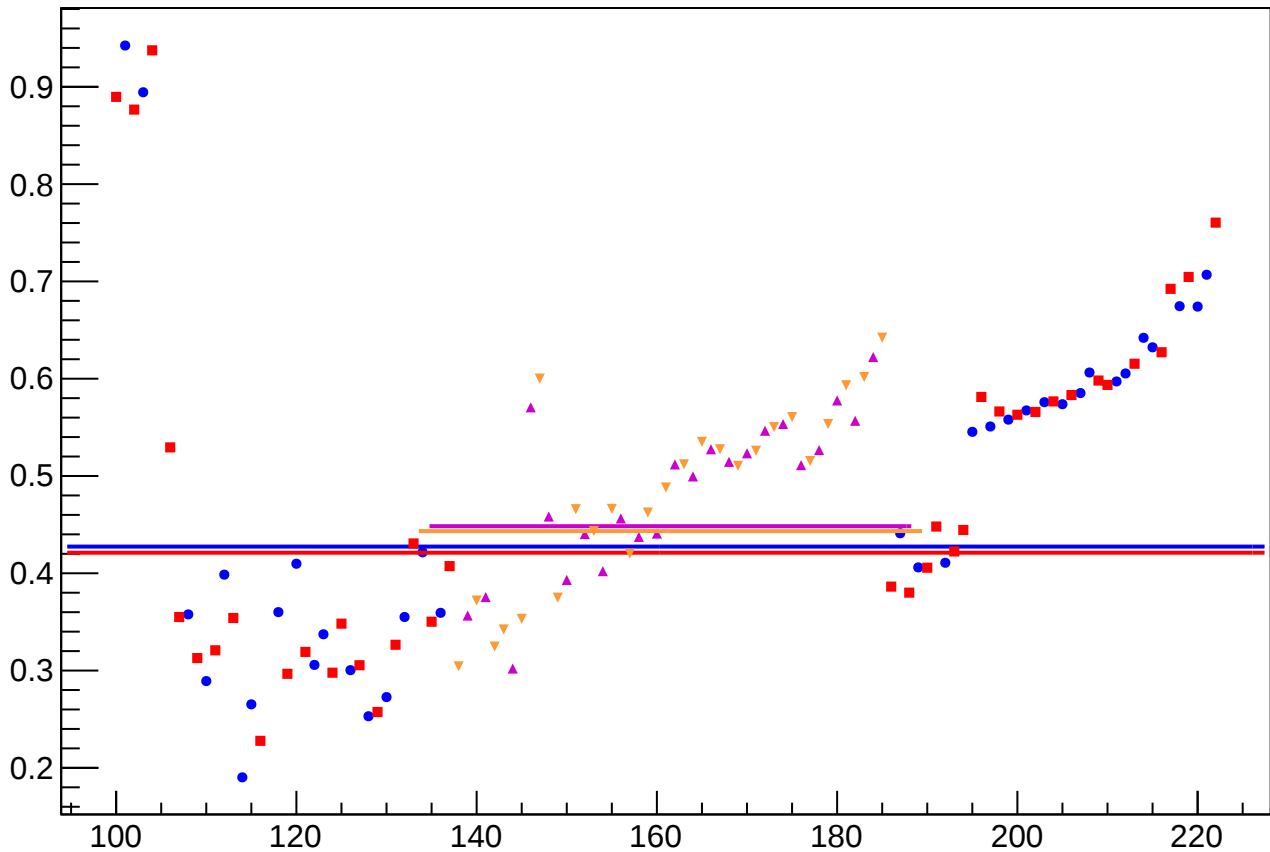
yield_bcm_dg_us_mean vs Slug



Right In: 144.699 ± 0.000 χ^2/NDF : 3249685125.9/34
 Left Out: 147.257 ± 0.000 χ^2/NDF : 261906278.3/24
 Right Out: 143.462 ± 0.000 χ^2/NDF : 7201243766.4/37
 Left In: 146.685 ± 0.000 χ^2/NDF : 554922388.0/22

+ sign 145.956 ± 0.000 χ^2/NDF : 3801085495.3/59
 All: 145.435 ± 0.000 χ^2/NDF : 12113482767.
 - sign 144.921 ± 0.000 χ^2/NDF : 8217084201.6/60

yield_bcm_dg_us_rms vs Slug



Right In: 0.427+/-0.000 χ^2/NDF : 4106840.0/34

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.421+/-0.000 χ^2/NDF : 4000224.6/37

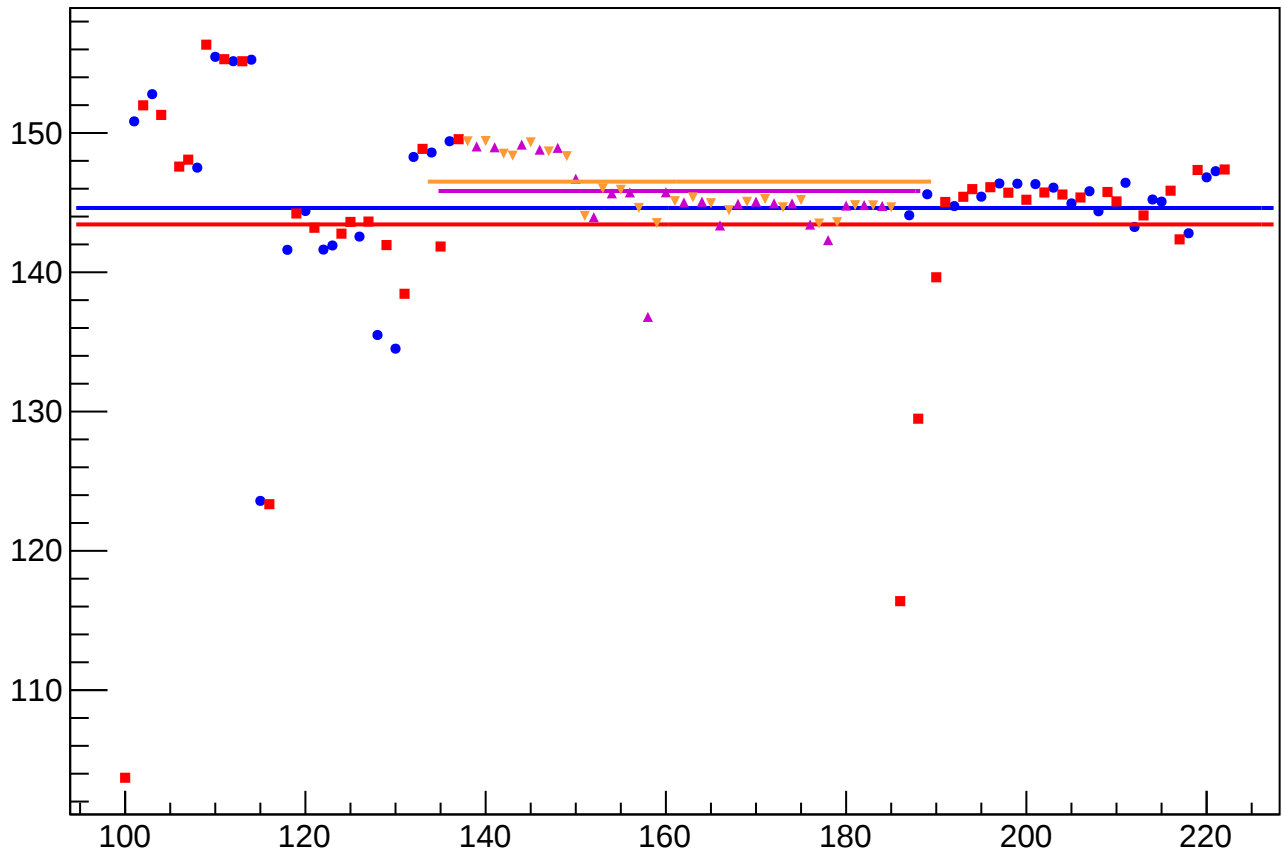
Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

+ sign 0.435+/-0.000 χ^2/NDF : 5609849.9/59

All: 0.434+/-0.000 χ^2/NDF : 10796657.8/120

- sign 0.433+/-0.000 χ^2/NDF : 5186244.4/60

yield_bcm_dg_ds_mean vs Slug



Right In: 144.616 $\pm$ 0.000 χ^2 /NDF: 3360287106.2/34

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.436 $\pm$ 0.000 χ^2 /NDF: 7154675893.5/37

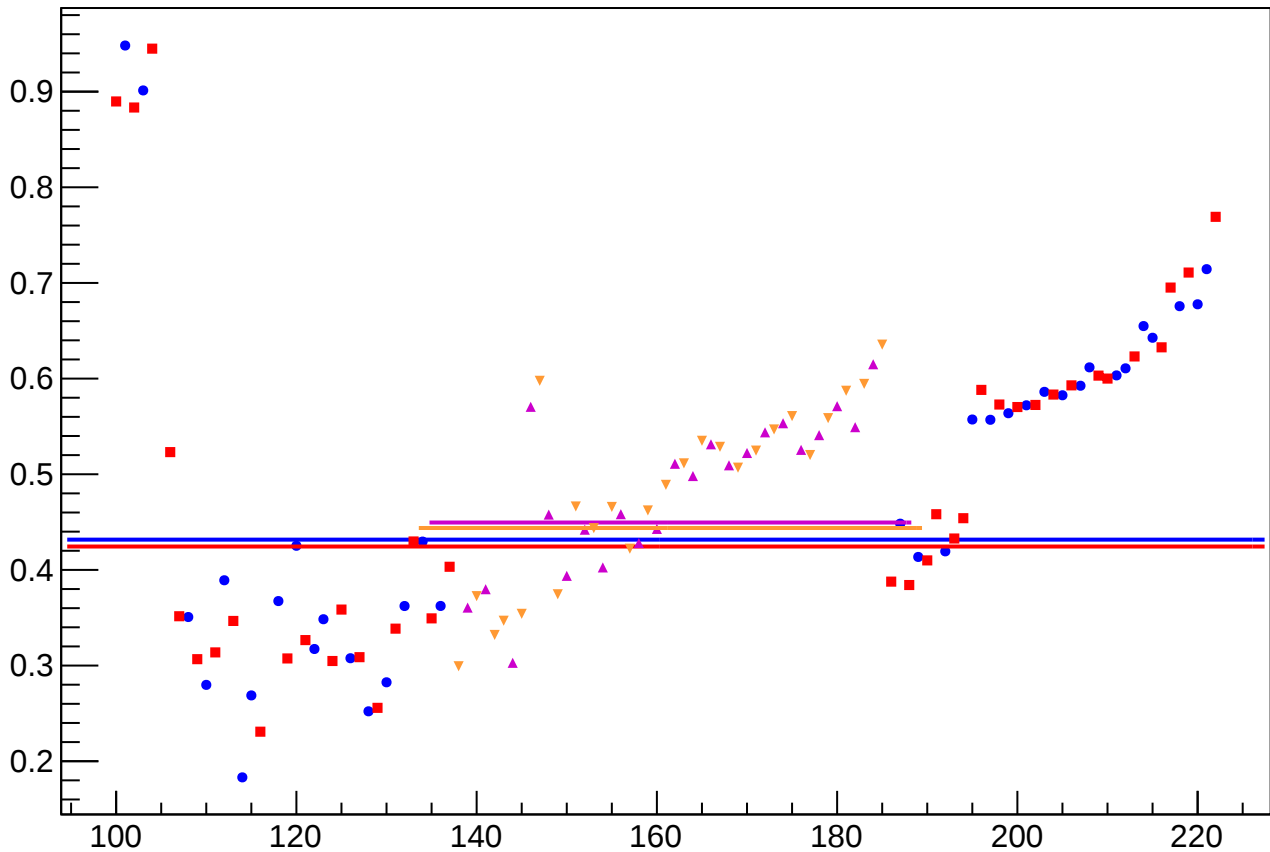
Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

+ sign 145.556 $\pm$ 0.000 χ^2 /NDF: 3917859045.6/59

All: 145.040 $\pm$ 0.000 χ^2 /NDF: 12107477651.0/119

- sign 144.530 $\pm$ 0.000 χ^2 /NDF: 8097149102.7/60

yield_bcm_dg_ds_rms vs Slug



Right In: 0.432 $\pm$ 0.000 χ^2 /NDF: 4156304.9/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.424 $\pm$ 0.000 χ^2 /NDF: 4038436.3/37

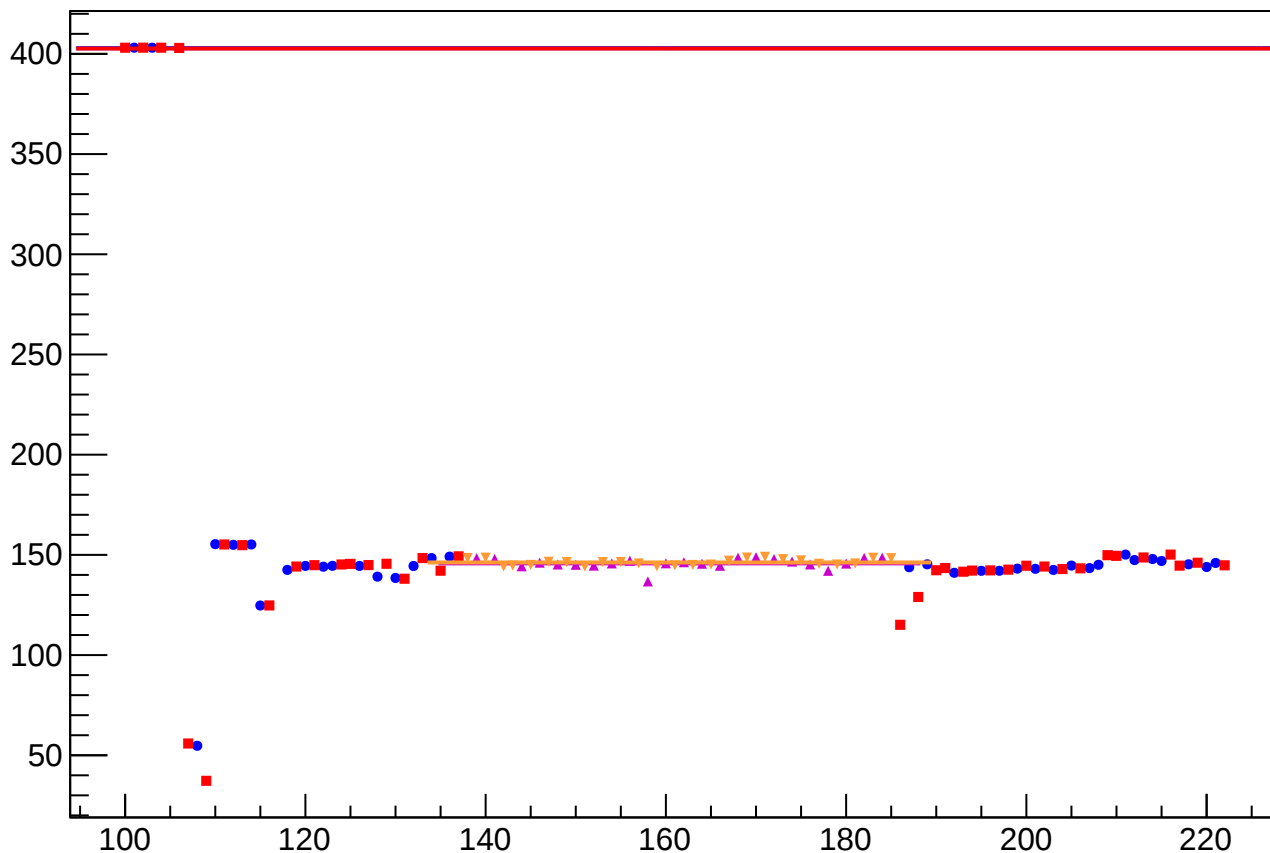
Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

+ sign 0.438 $\pm$ 0.000 χ^2 /NDF: 5629591.3/59

All: 0.437 $\pm$ 0.000 χ^2 /NDF: 10816574.9/120

- sign 0.436 $\pm$ 0.000 χ^2 /NDF: 5186418.5/60

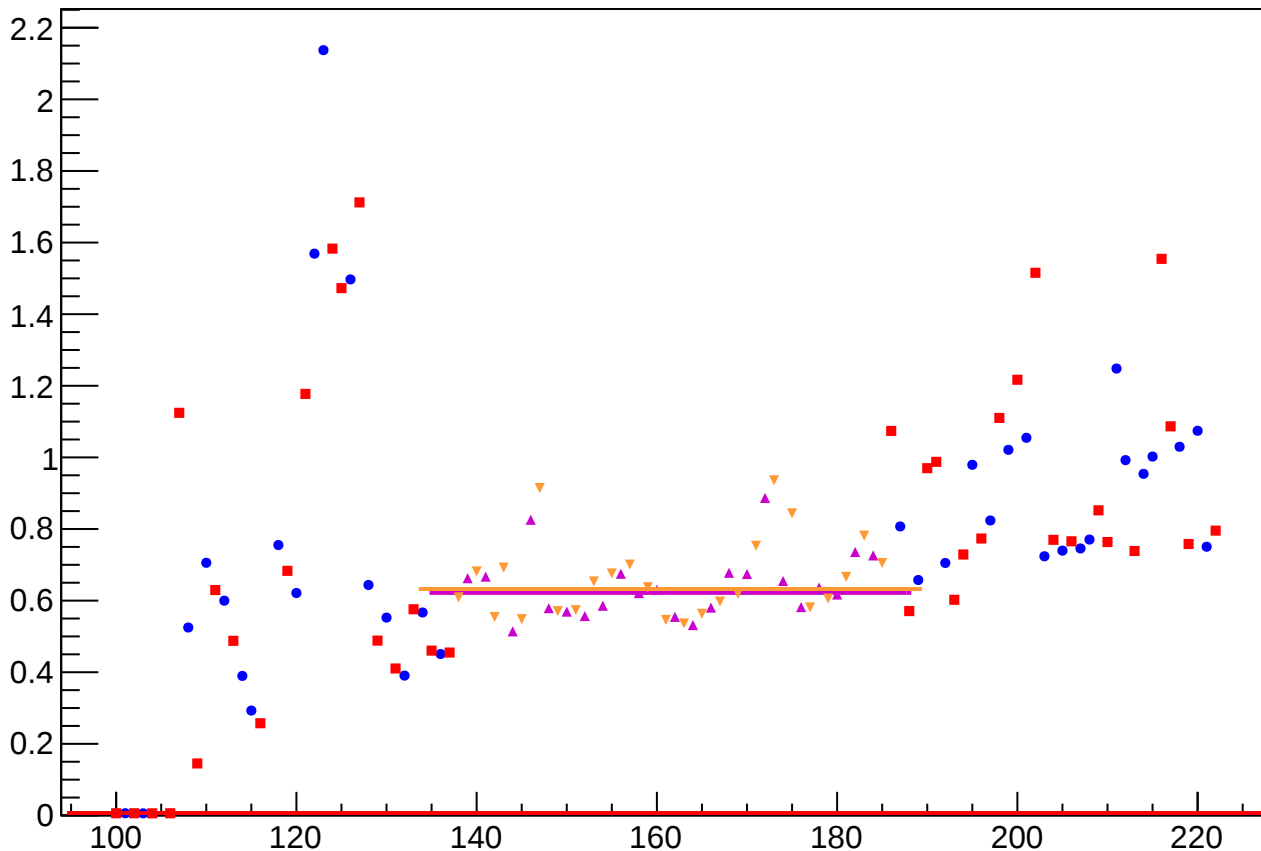
yield_cav4bQ_mean vs Slug



Right In: 402.842 $\pm$ 0.000 χ^2 /NDF: 2025738192277.0/34
 Left Out: 146.216 $\pm$ 0.000 χ^2 /NDF: 86042286.3/24
 Right Out: 402.669 $\pm$ 0.000 χ^2 /NDF: 4295039761551.4/37
 Left In: 145.755 $\pm$ 0.000 χ^2 /NDF: 206171532.0/22

+ sign 402.547 $\pm$ 0.000 χ^2 /NDF: 4384914219984.3
 All: 402.476 $\pm$ 0.000 χ^2 /NDF: 110076093139
 - sign 402.412 $\pm$ 0.000 χ^2 /NDF: 6622394339153.4

yield_cav4bQ_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 29483293.8/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 32008871.6/37

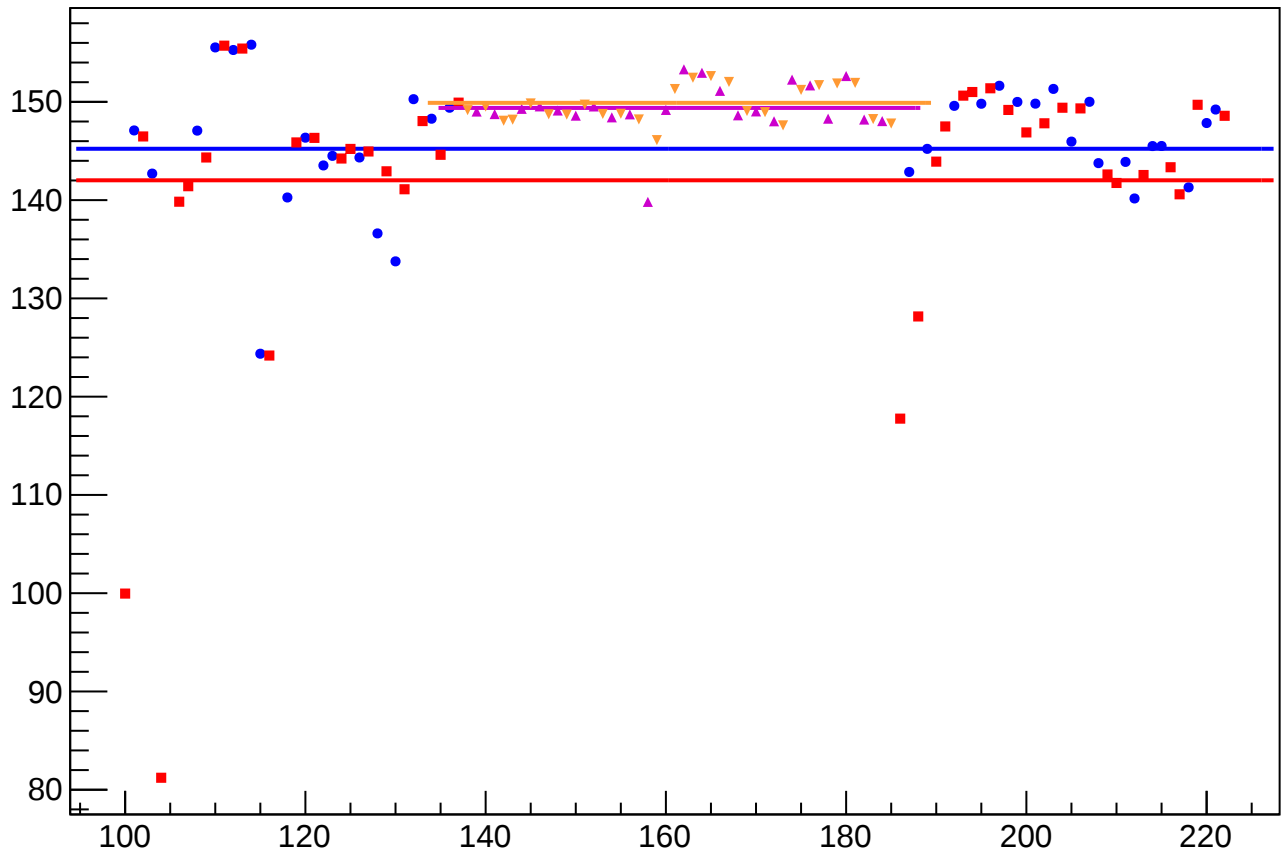
Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 58144604.9/59

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 117214376.5/120

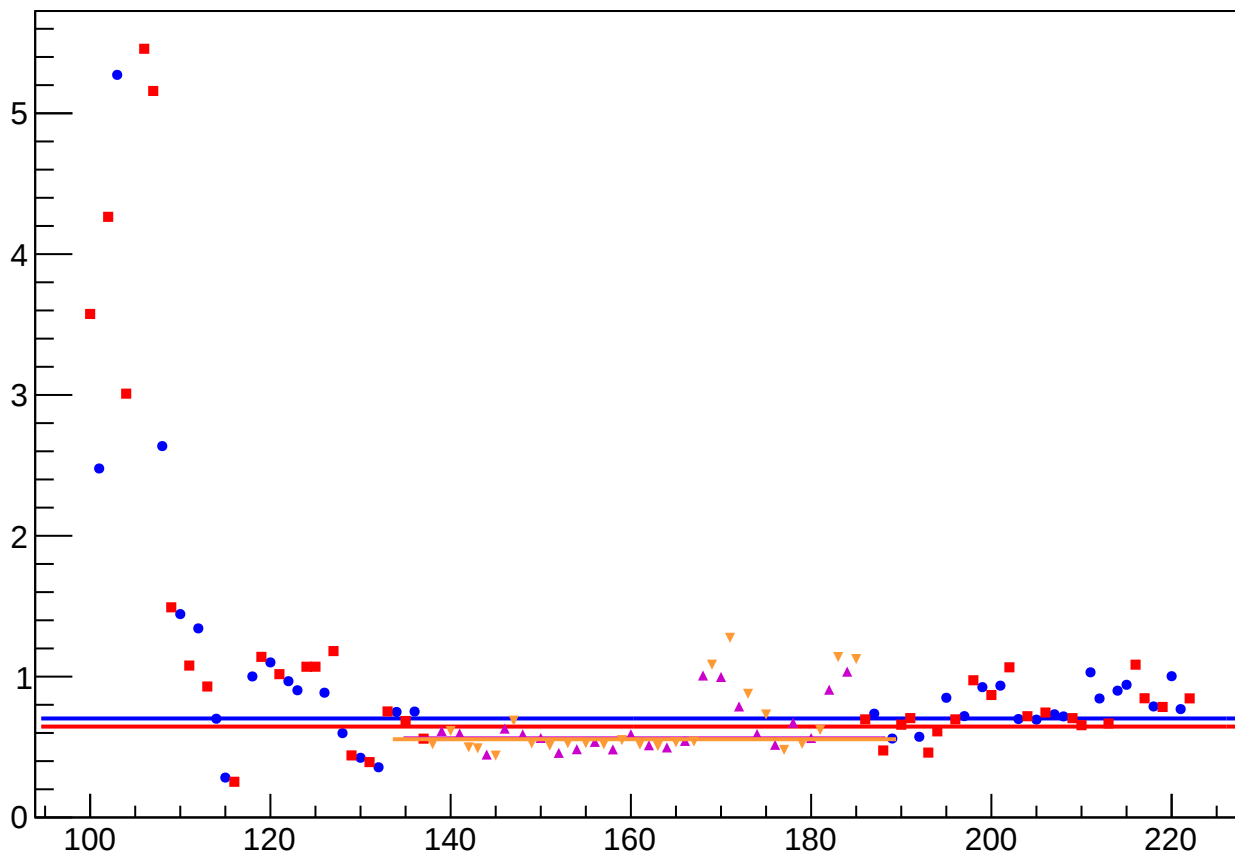
- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 59069425.8/60

yield_cav4cQ_mean vs Slug



Right In: 145.226 $\pm$ 0.000	χ^2 /NDF: 1395357119.1/34	+ sign 148.232 $\pm$ 0.000	χ^2 /NDF: 1953897248.7/59
Left Out: 149.900 $\pm$ 0.000	χ^2 /NDF: 162845622.6/24	All: 147.224 $\pm$ 0.000	χ^2 /NDF: 7020033189.4
Right Out: 142.017 $\pm$ 0.000	χ^2 /NDF: 3386350758.9/37	- sign 146.257 $\pm$ 0.000	χ^2 /NDF: 4909172086.8/60
Left In: 149.382 $\pm$ 0.000	χ^2 /NDF: 434657827.5/22		

yield_cav4cQ_rms vs Slug



Right In: 0.703 ± 0.000 χ^2/NDF : 4546273.7/34

Left Out: 0.555 ± 0.000 χ^2/NDF : 1773688.1/24

Right Out: 0.645 ± 0.000 χ^2/NDF : 6050283.4/37

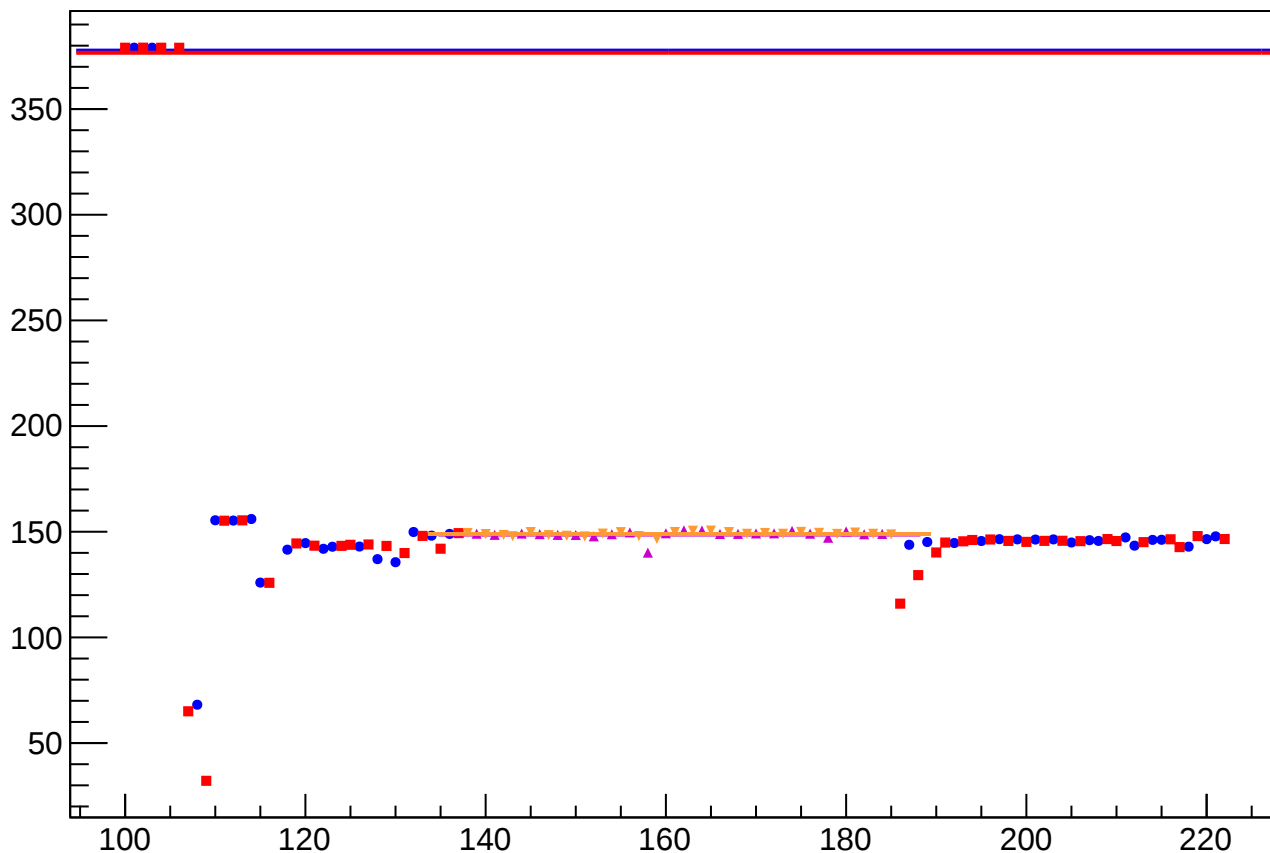
Left In: 0.562 ± 0.000 χ^2/NDF : 1305573.4/22

+ sign 0.608 ± 0.000 χ^2/NDF : 7107235.8/59

All: 0.603 ± 0.000 χ^2/NDF : 14752609.8/120

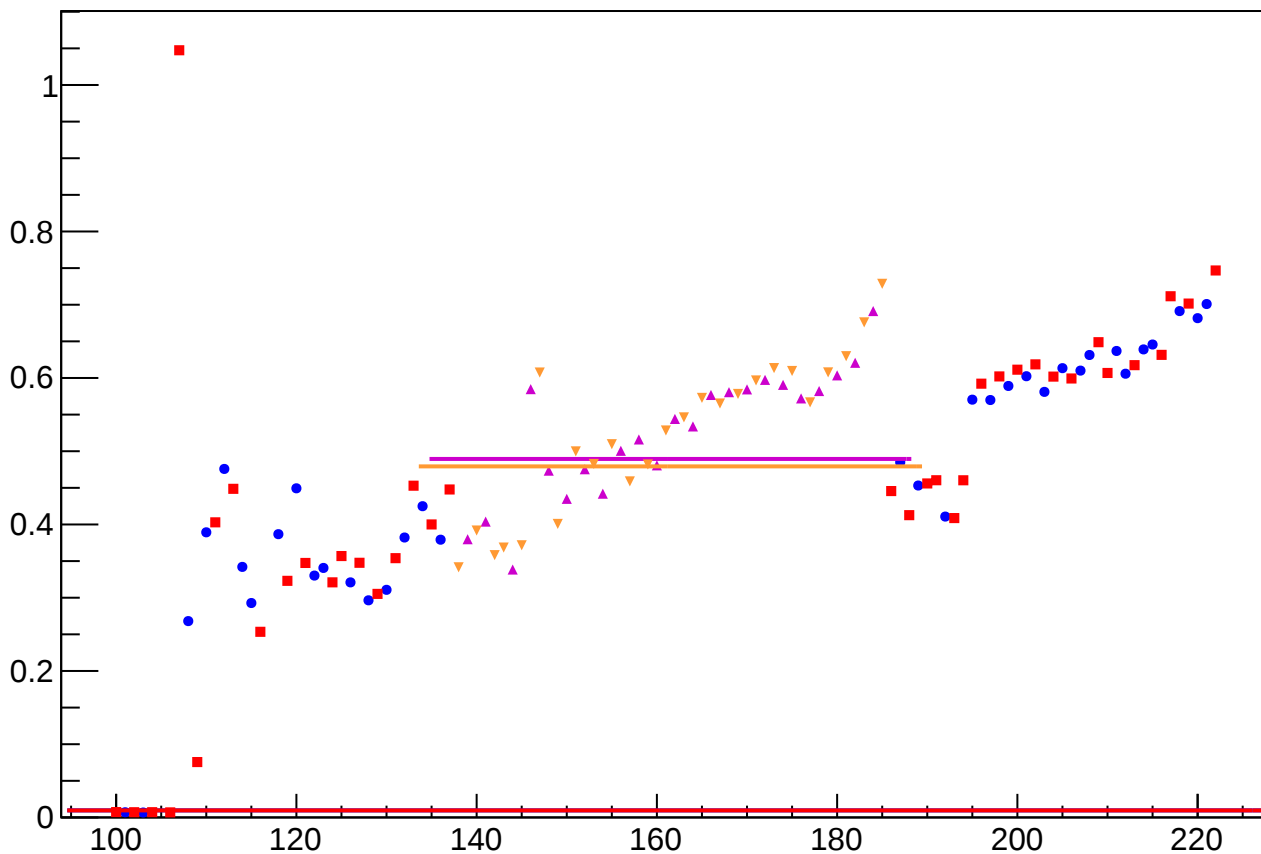
- sign 0.597 ± 0.000 χ^2/NDF : 7635811.3/60

yield_cav4dQ_mean vs Slug



Right In: 377.655+/-0.000	χ^2/NDF : 4454088077992.8/34	+ sign 376.382+/-0.000	χ^2/NDF : 8339973053843.7
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	All: 375.980+/-0.000	χ^2/NDF : 22457679951
Right Out: 376.647+/-0.000	χ^2/NDF : 10574564083980.7/37	- sign 375.627+/-0.000	χ^2/NDF : 14113632372623.5
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22		

yield_cav4dQ_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 33735398.0/34

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 34605383.7/37

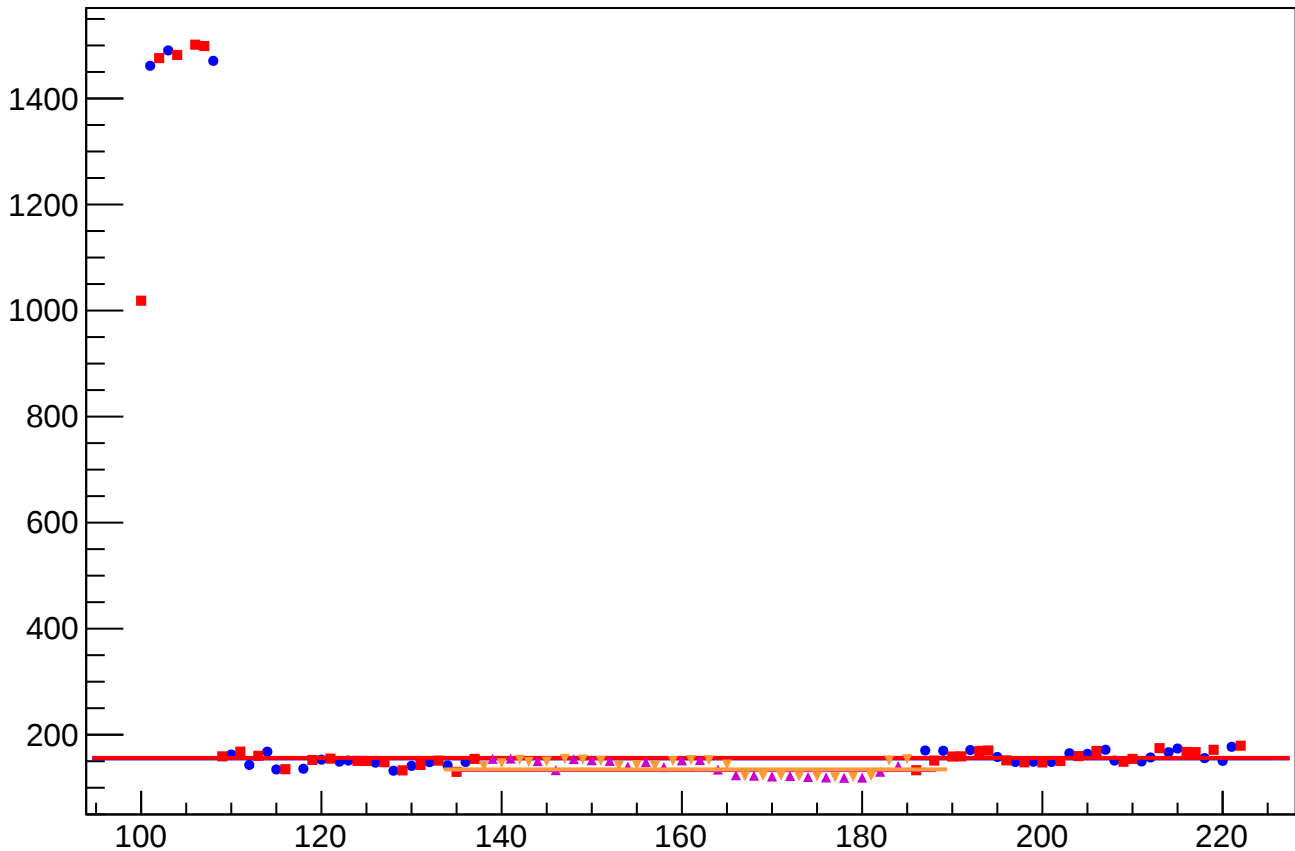
Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 68021506.2/59

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 135062717.7/120

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 67037469.2/60

yield_bcm0l02_mean vs Slug



Right In: 155.278+/-0.000 χ^2/NDF : 26314408476.0/34

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 156.270+/-0.000 χ^2/NDF : 35647996606.7/37

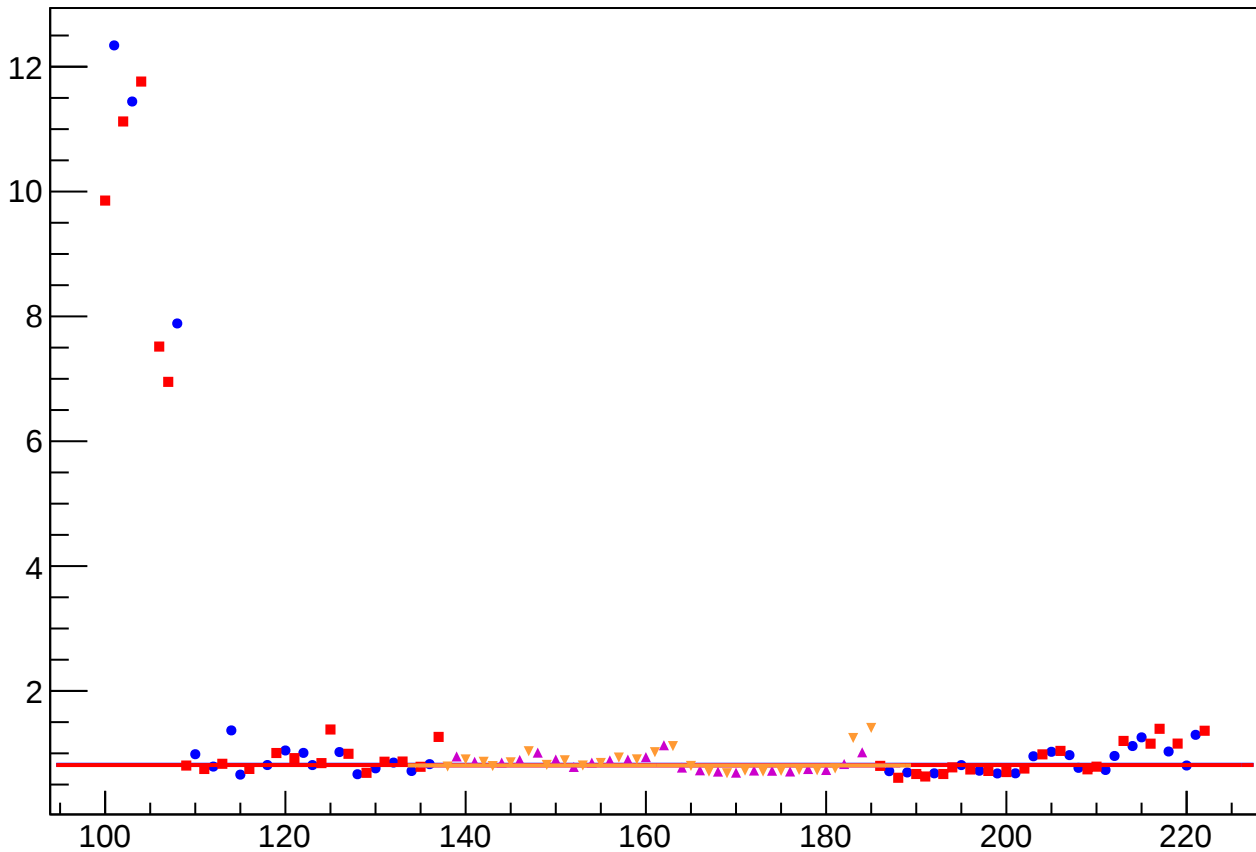
Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

+ sign 144.431+/-0.000 χ^2/NDF : 35545073294.0/59

All: 144.594+/-0.000 χ^2/NDF : 81454684682.0/118

- sign 144.757+/-0.000 χ^2/NDF : 45907200255.9/60

yield_bcm0l02_rms vs Slug



Right In: 0.817 ± 0.000 χ^2/NDF : 3467246.9/34

Left Out: 0.806 ± 0.000 χ^2/NDF : 690578.5/24

Right Out: 0.812 ± 0.000 χ^2/NDF : 4169438.8/37

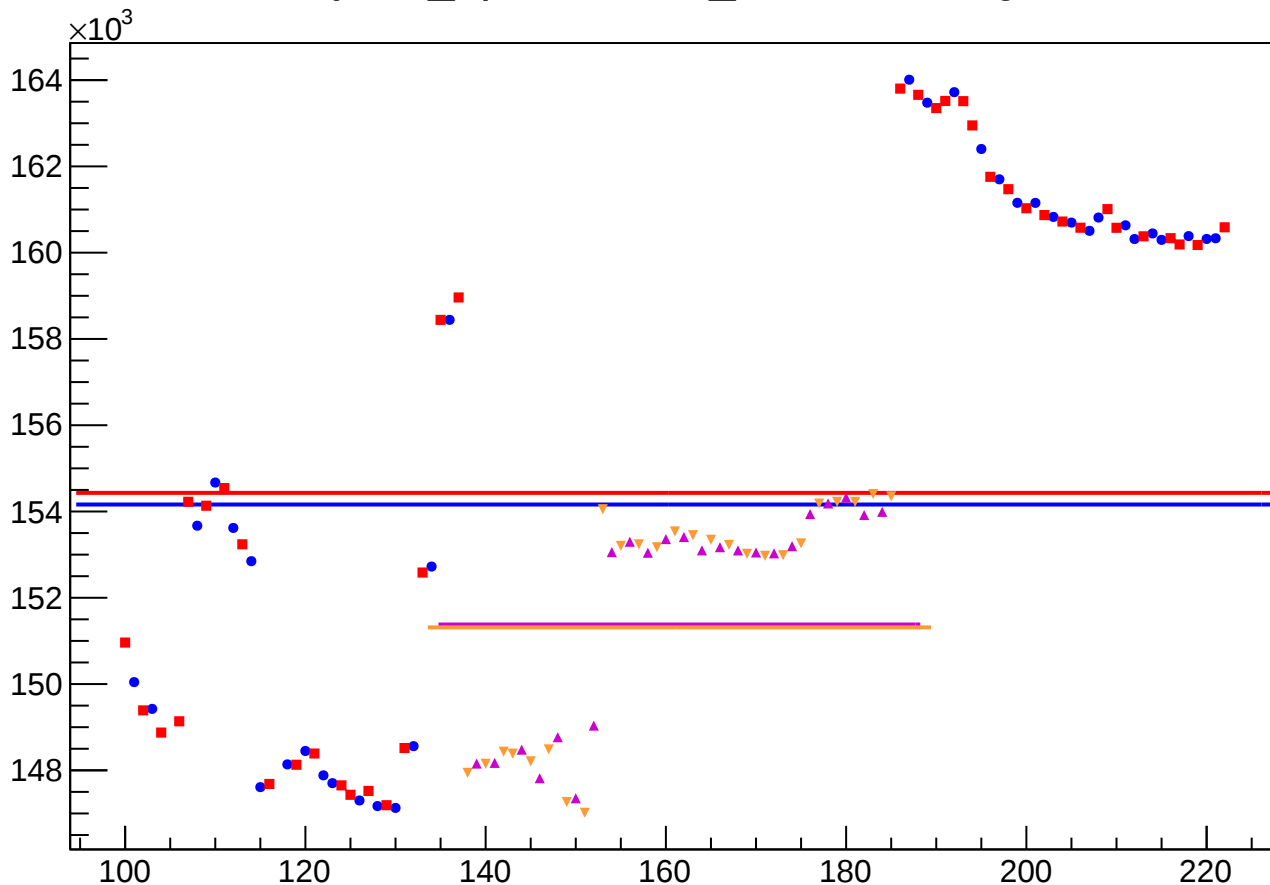
Left In: 0.805 ± 0.000 χ^2/NDF : 480510.8/22

+ sign 0.811 ± 0.000 χ^2/NDF : 4160598.2/59

All: 0.810 ± 0.000 χ^2/NDF : 8812213.8/120

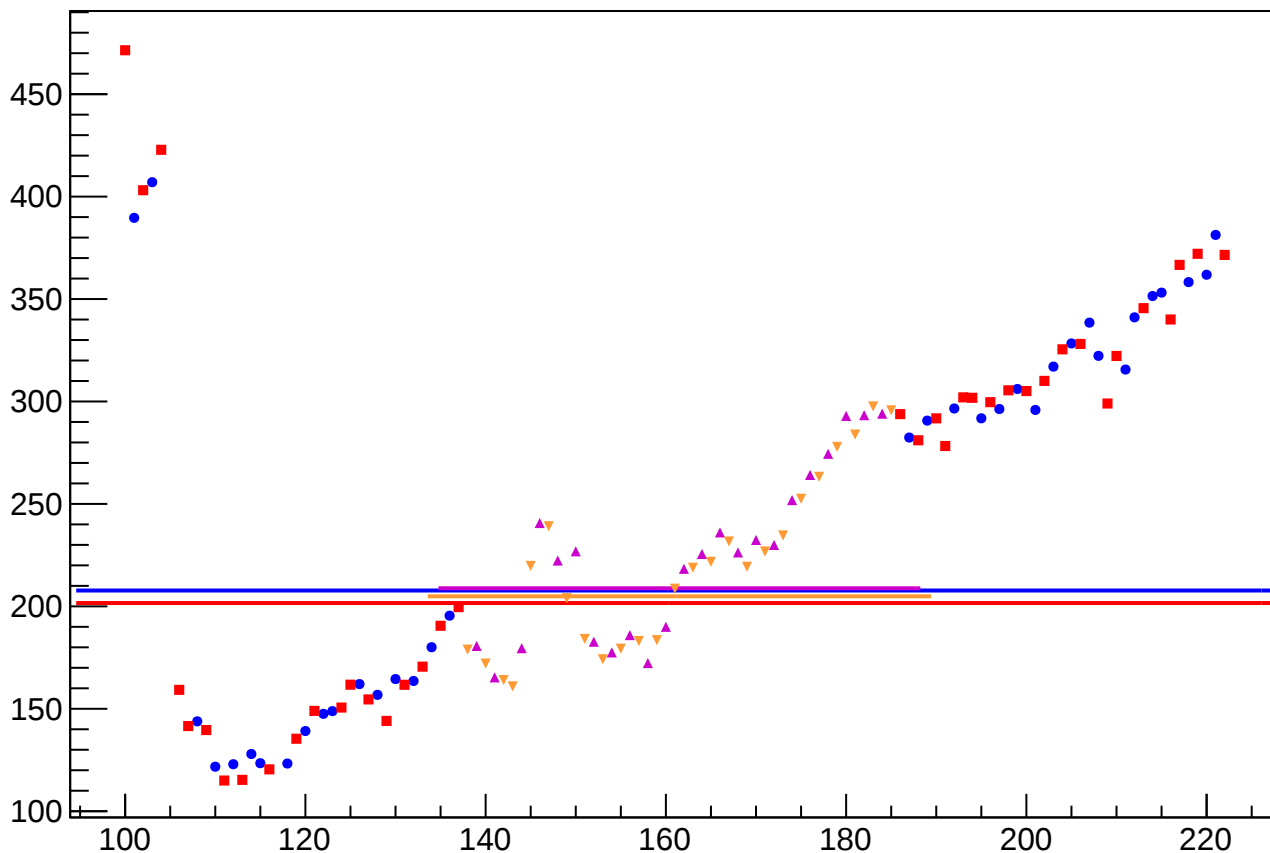
- sign 0.809 ± 0.000 χ^2/NDF : 4651245.1/60

yield_bpm0i01WS_mean vs Slug



Right In: 154161.968 $\pm$ 0.052 χ^2 /NDF: 12739264545.3/34
 Left Out: 151313.284 $\pm$ 0.049 χ^2 /NDF: 3153768134.8/24
 Right Out: 154431.819 $\pm$ 0.049 χ^2 /NDF: 13390002153.4/37
 Left In: 151380.236 $\pm$ 0.051 χ^2 /NDF: 2363895785.3/22

yield_bpm0i01WS_rms vs Slug



Right In: 207.732 $\pm$ 0.037 χ^2 /NDF: 5925650.1/34

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 201.625 $\pm$ 0.035 χ^2 /NDF: 6407967.5/37

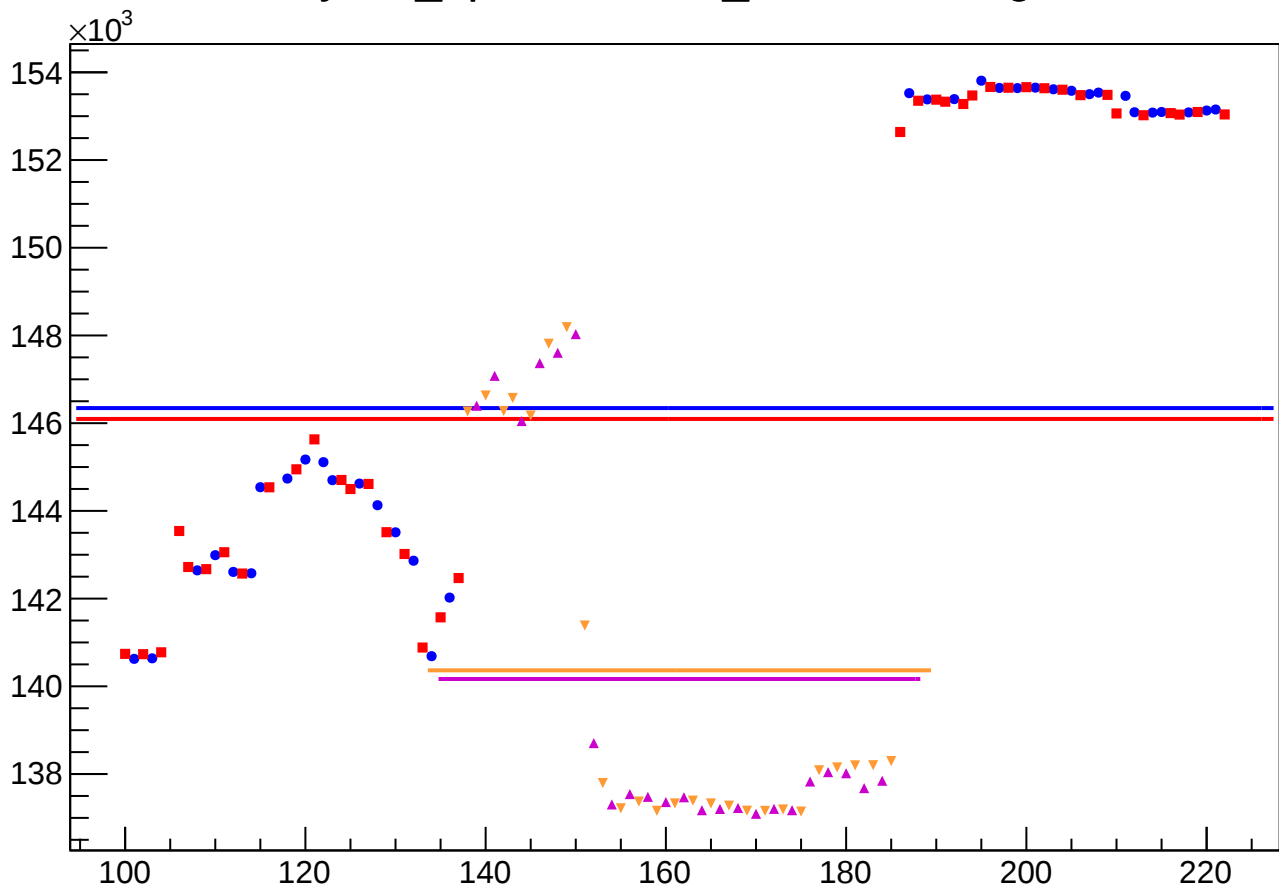
Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

+ sign 206.229 $\pm$ 0.025 χ^2 /NDF: 6985208.8/59

All: 205.658 $\pm$ 0.018 χ^2 /NDF: 14416598.8/12

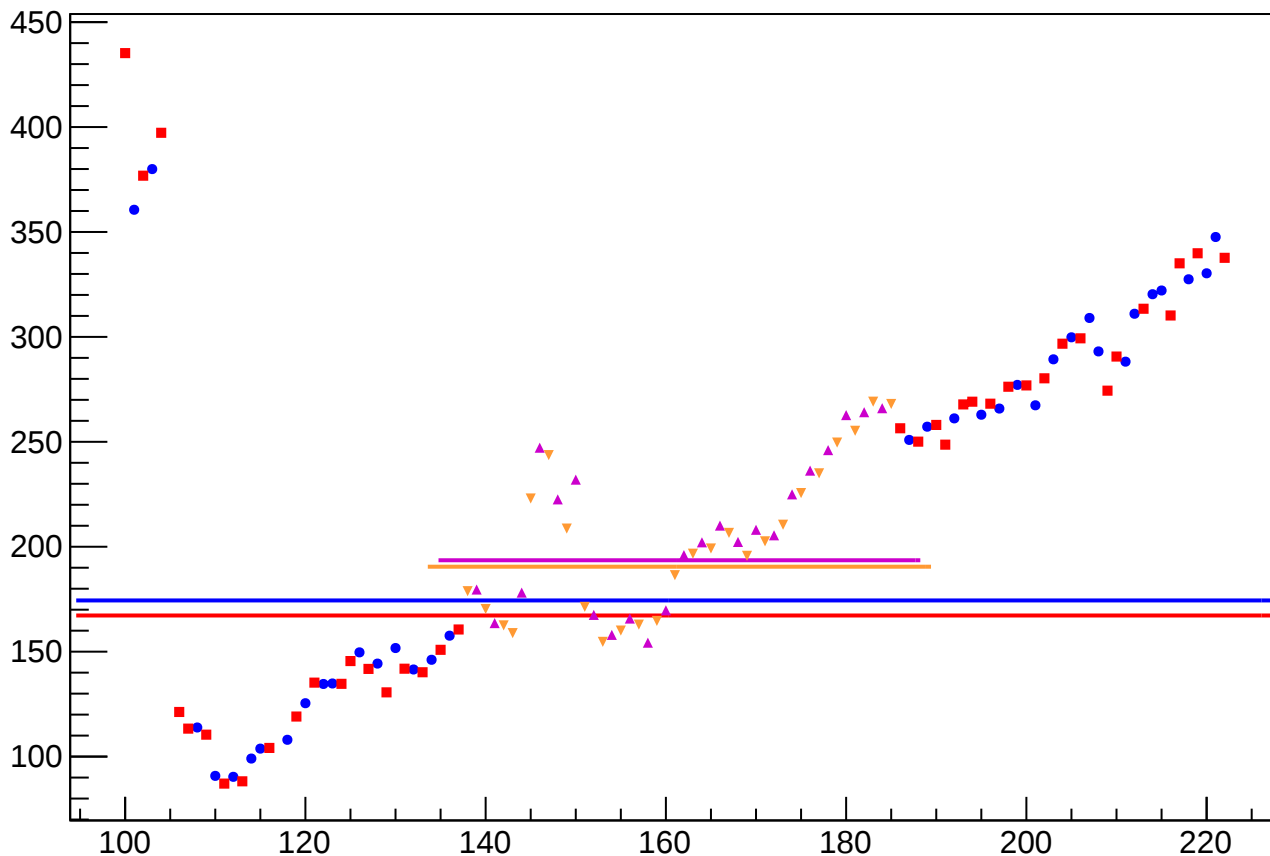
- sign 205.085 $\pm$ 0.025 χ^2 /NDF: 7430350.7/60

yield_bpm0i01aWS_mean vs Slug



Right In: 146344.208 $\pm$ 0.044	χ^2/NDF : 11207781079.8/34	+ sign 143411.749 $\pm$ 0.032	χ^2/NDF : 28796896392.
Left Out: 140364.444 $\pm$ 0.045	χ^2/NDF : 8677078677.7/24	All: 143463.042 $\pm$ 0.022	χ^2/NDF : 580027322
Right Out: 146096.602 $\pm$ 0.042	χ^2/NDF : 12359170663.1/37	- sign 143513.219 $\pm$ 0.031	χ^2/NDF : 29200645239.2
Left In: 140166.971 $\pm$ 0.047	χ^2/NDF : 8028464654.6/22		

yield_bpm0i01aWS_rms vs Slug



Right In: 174.410 $\pm$ 0.031 χ^2 /NDF: 7258724.1/34

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF: 950233.2/24

Right Out: 167.237 $\pm$ 0.029 χ^2 /NDF: 7862640.0/37

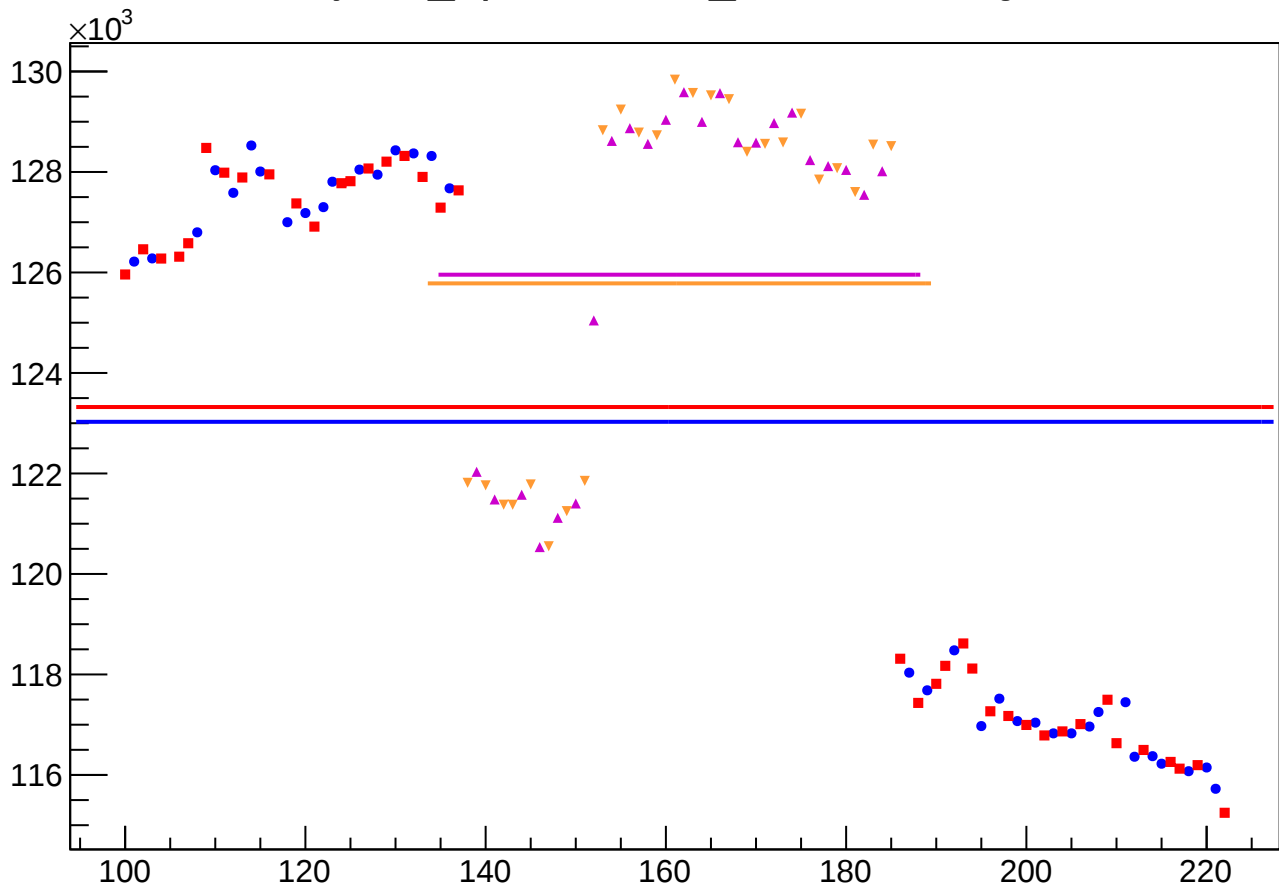
Left In: 193.558 $\pm$ 0.034 χ^2 /NDF: 963675.0/22

+ sign 182.294 $\pm$ 0.022 χ^2 /NDF: 8337778.1/59

All: 180.479 $\pm$ 0.016 χ^2 /NDF: 17524377.3/12

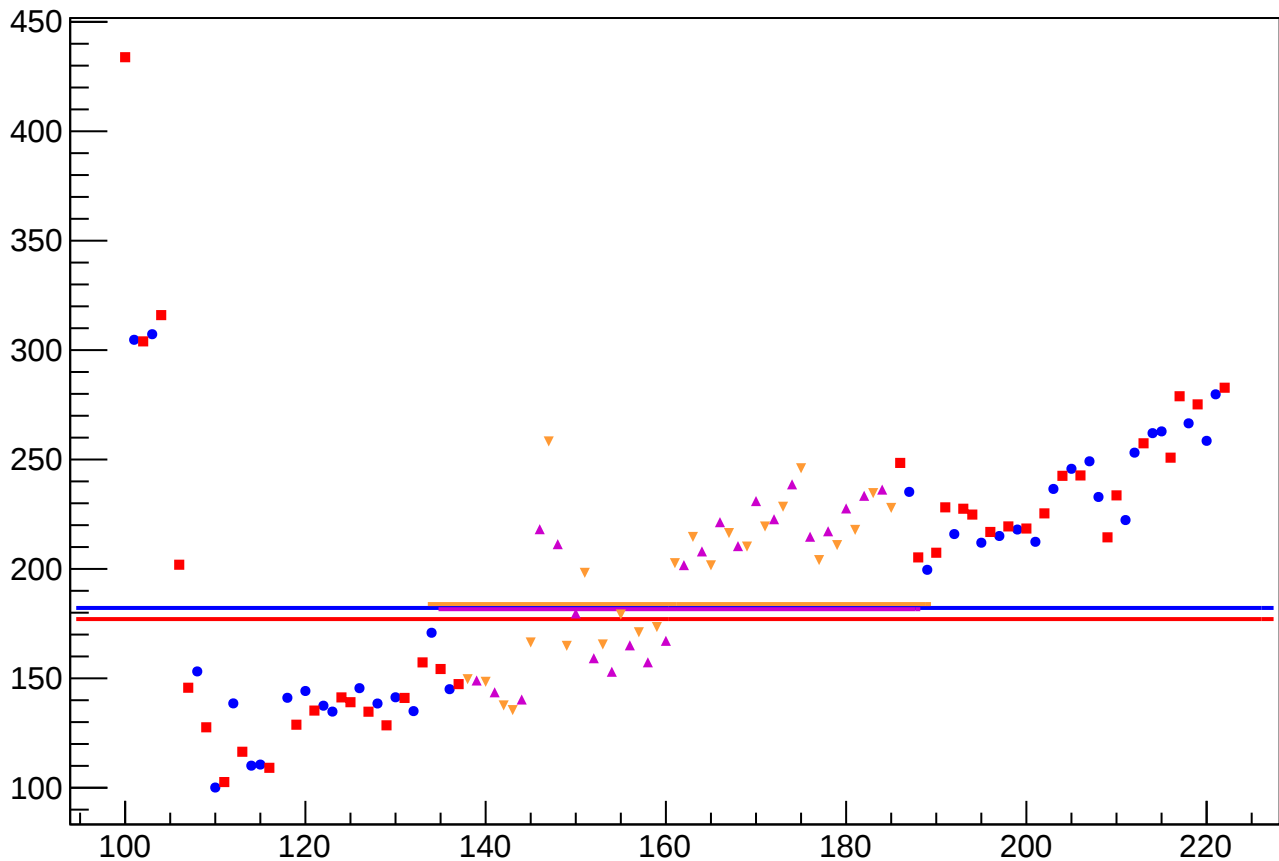
- sign 178.705 $\pm$ 0.022 χ^2 /NDF: 9173611.8/60

yield_bpm0l01WS_mean vs Slug



Right In: 123027.877+/-0.044	χ^2/NDF : 14962787322.2/34	+ sign 124393.392+/-0.031	χ^2/NDF : 23669291010.5
Left Out: 125782.764+/-0.044	χ^2/NDF : 6729761889.8/24	All: 124470.345+/-0.022	χ^2/NDF : 472773419
Right Out: 123322.221+/-0.042	χ^2/NDF : 15941506019.0/37	- sign 124545.091+/-0.031	χ^2/NDF : 23595887854.0
Left In: 125955.637+/-0.045	χ^2/NDF : 5804088930.1/22		

yield_bpm0l01WS_rms vs Slug



Right In: 182.171+/-0.031 χ^2/NDF : 3169831.8/34

Left Out: 183.947+/-0.031 χ^2/NDF :1123194.0/24

Right Out: 177.081+/-0.029 χ^2/NDF : 3788933.8/37

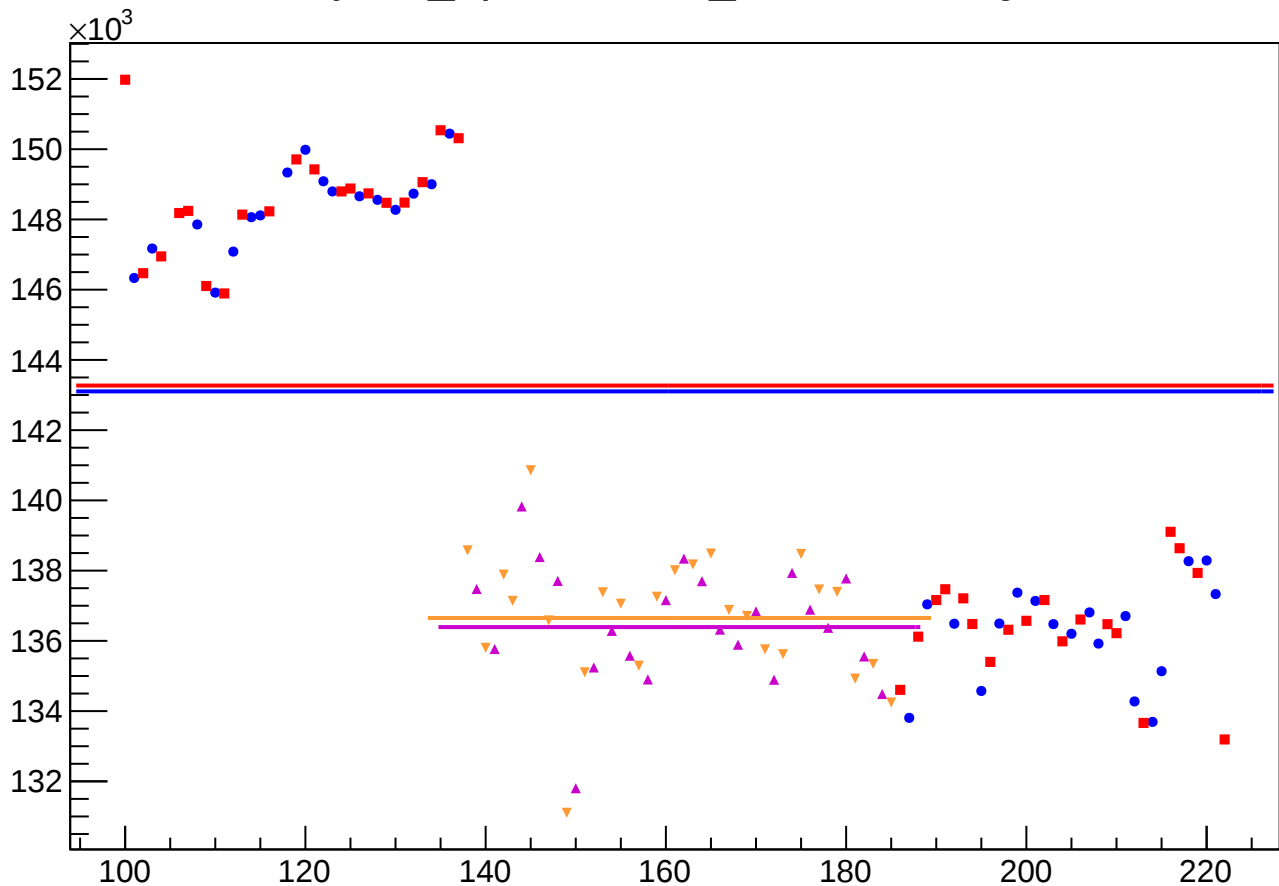
Left In: 181.596+/-0.032 χ^2/NDF :1103524.3/22

+ sign 183.051+/-0.022 χ^2/NDF : 4294668.9/59

All: 181.086+/-0.015 χ^2/NDF : 9213859.6/120

- sign 179.178+/-0.022 χ^2/NDF : 4903332.4/60

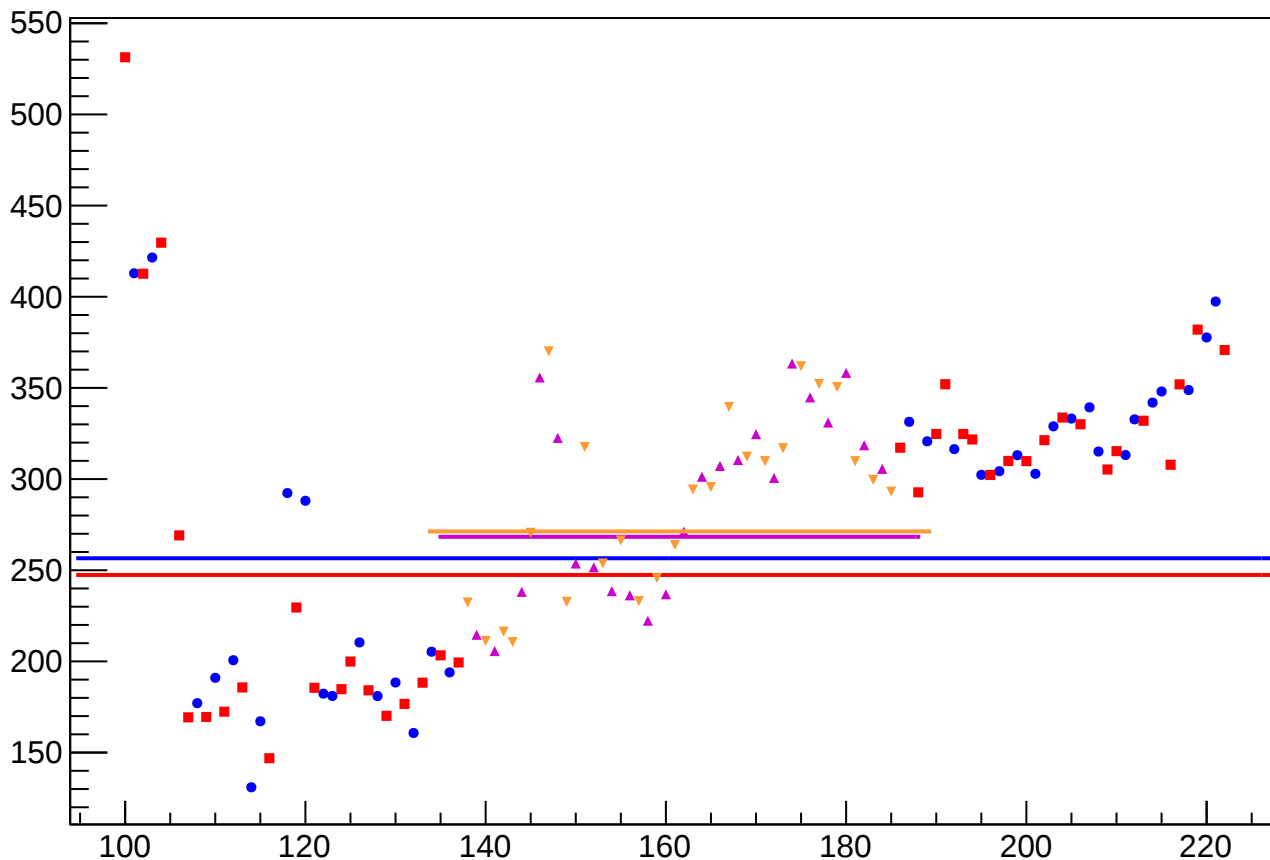
yield_bpm0l02WS_mean vs Slug



Right In: 143104.130 $\pm$ 0.061 χ^2 /NDF: 10208326065.5/34
 Left Out: 136650.935 $\pm$ 0.065 χ^2 /NDF: 930649595.5/24
 Right Out: 143270.061 $\pm$ 0.058 χ^2 /NDF: 10769699283.2/37
 Left In: 136392.188 $\pm$ 0.066 χ^2 /NDF: 701986841.4/22

+ sign 140043.374 $\pm$ 0.045 χ^2 /NDF: 16380701072.
 All: 140156.990 $\pm$ 0.031 χ^2 /NDF: 339878065.
 - sign 140266.004 $\pm$ 0.044 χ^2 /NDF: 17594336551.9

yield_bpm0l02WS_rms vs Slug



Right In: 256.568+/-0.043 χ^2/NDF : 3135322.0/34

Left Out: 271.295+/-0.046 χ^2/NDF :1064485.7/24

Right Out: 247.419+/-0.041 χ^2/NDF : 3452372.5/37

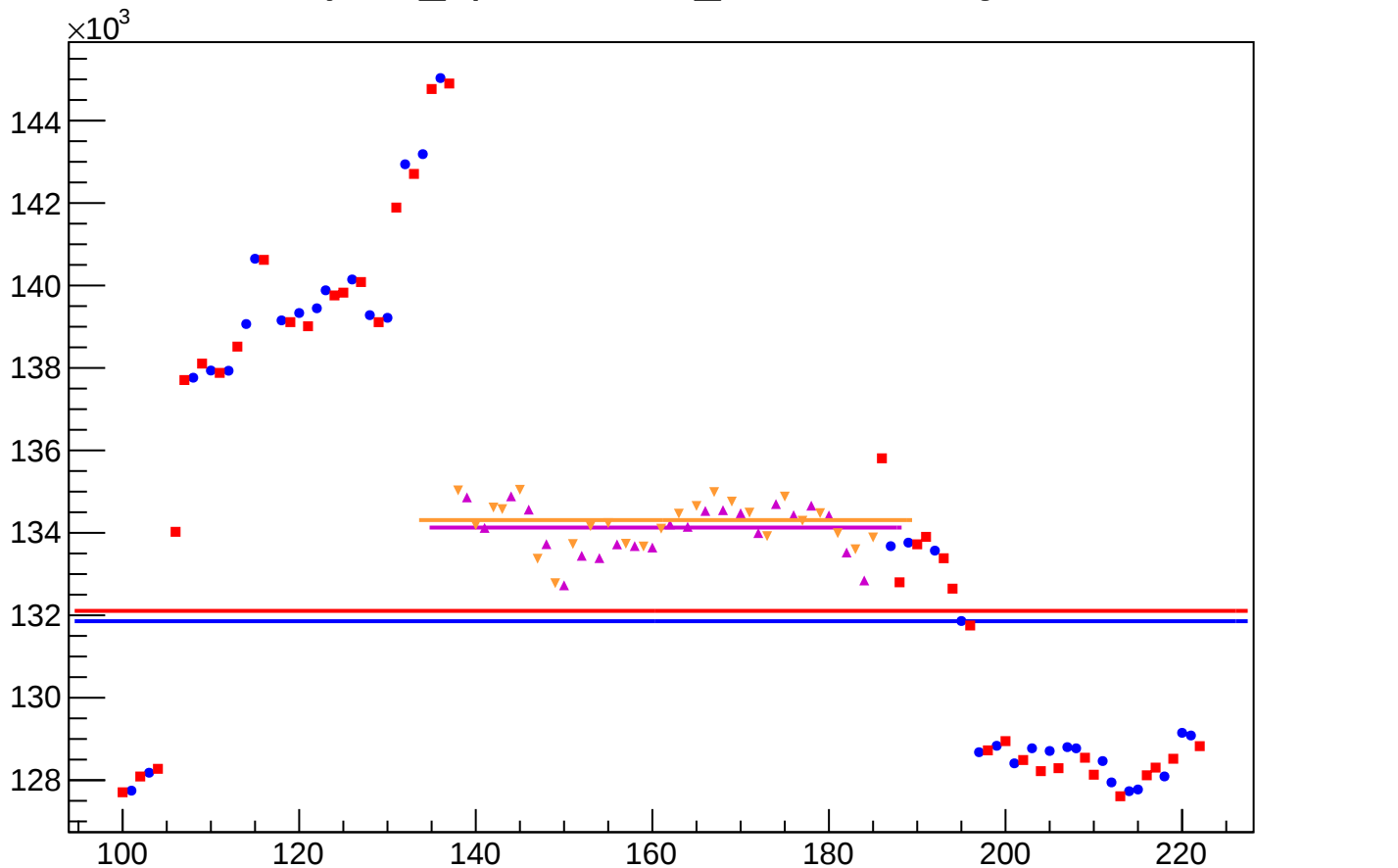
Left In: 268.344+/-0.047 χ^2/NDF :1077364.0/22

+ sign 263.553+/-0.031 χ^2/NDF : 4254405.3/59

All: 259.983+/-0.022 χ^2/NDF : 8922695.3/120

- sign 256.558+/-0.031 χ^2/NDF : 4643077.1/60

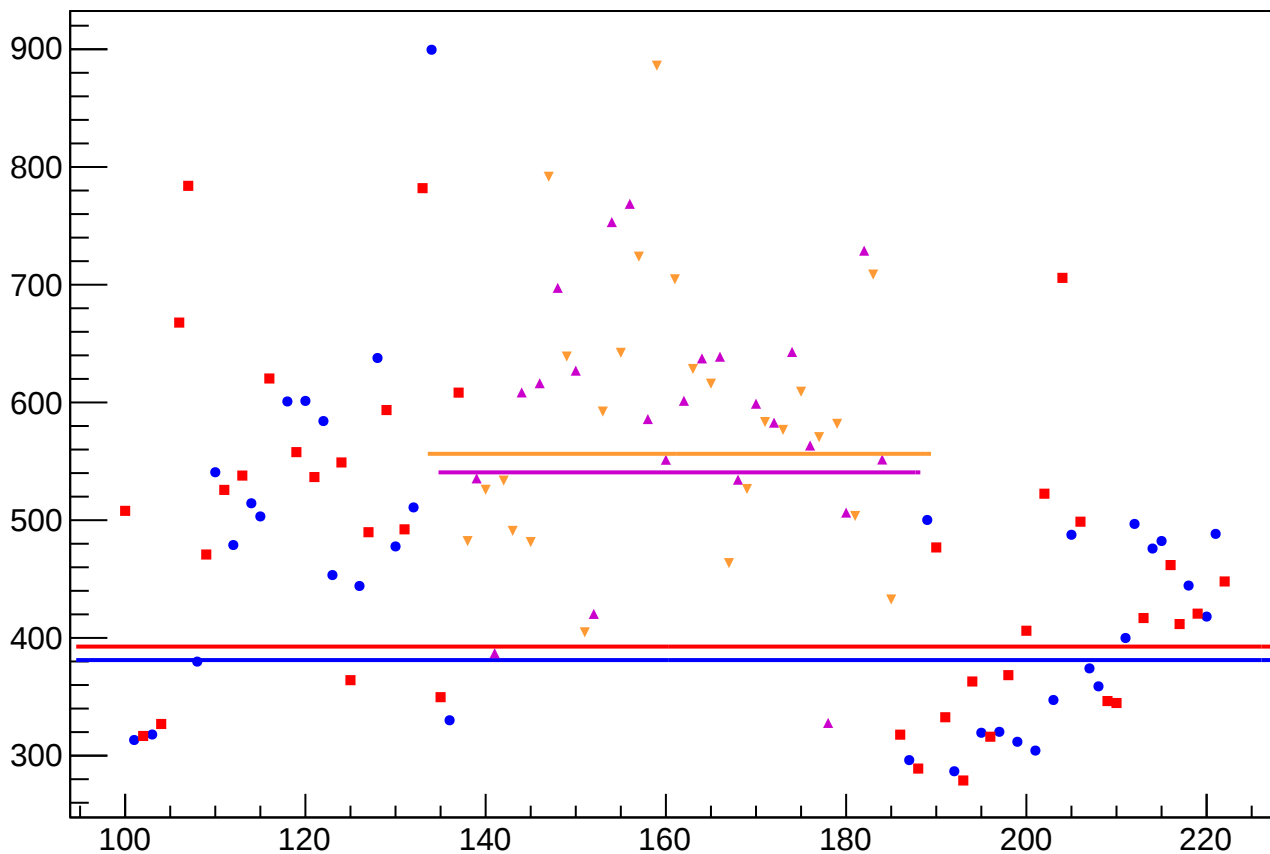
yield_bpm0l03WS_mean vs Slug



Right In: 131857.152 ± 0.098 $\chi^2/\text{NDF}: 2880377638.6/34$
 Left Out: 134310.250 ± 0.139 $\chi^2/\text{NDF}: 15518632.9/24$
 Right Out: 132107.412 ± 0.100 $\chi^2/\text{NDF}: 2141787637.4/37$
 Left In: 134128.172 ± 0.142 $\chi^2/\text{NDF}: 15533736.2/22$

+ sign 132672.387 ± 0.080 $\chi^2/\text{NDF}: 3105182272.1$
 - sign 132773.990 ± 0.082 $\chi^2/\text{NDF}: 2293055931.2$
 All: 132722.135 ± 0.057 $\chi^2/\text{NDF}: 539903045$

yield_bpm0l03WS_rms vs Slug



Right In: 381.183 ± 0.069 $\chi^2/\text{NDF}: 1621489.0/34$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 392.645 ± 0.070 $\chi^2/\text{NDF}: 1996811.6/37$

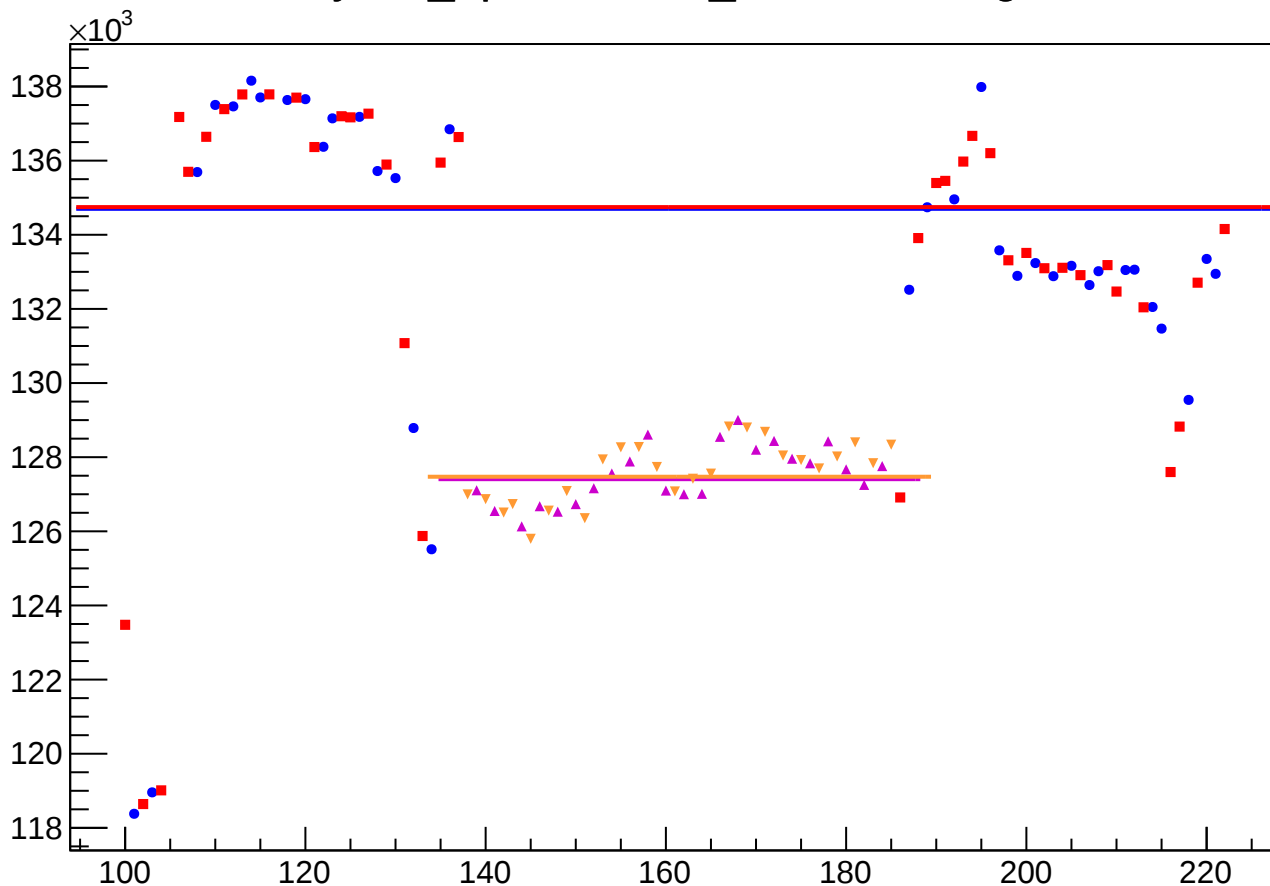
Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

+ sign 439.406 ± 0.056 $\chi^2/\text{NDF}: 4758579.0/59$

All: 440.408 ± 0.040 $\chi^2/\text{NDF}: 9620479.1/120$

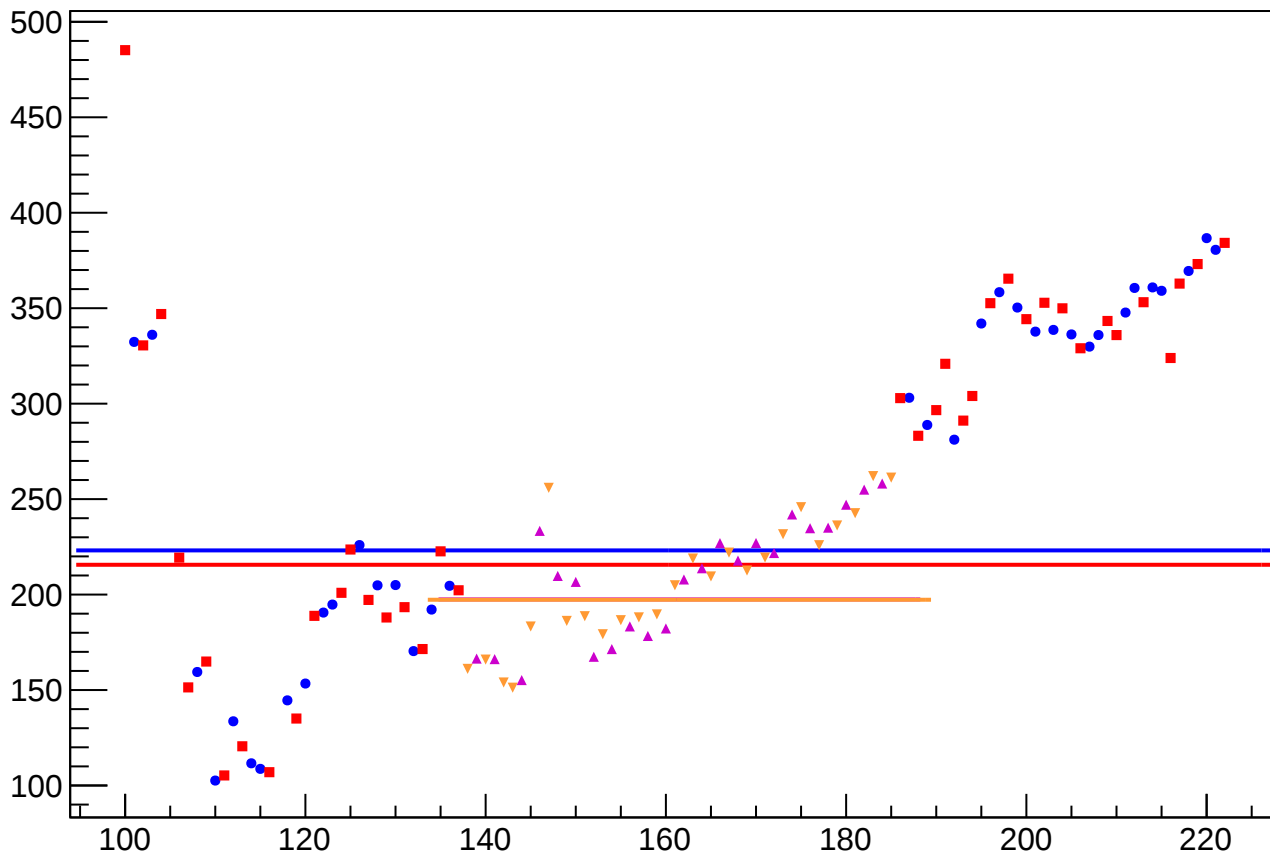
- sign 441.452 ± 0.058 $\chi^2/\text{NDF}: 4861257.4/60$

yield_bpm0l04WS_mean vs Slug



Right In: 134700.250 ± 0.056 $\chi^2/\text{NDF}: 5195551062.8/34$ $+ \text{sign } 130468.676 \pm 0.036$ $\chi^2/\text{NDF}: 15362843868.$
 Left Out: 127472.525 ± 0.047 $\chi^2/\text{NDF}: 303609315.6/24$ All: 130612.115 ± 0.025 $\chi^2/\text{NDF}: 32071654.$
 Right Out: 134746.477 ± 0.053 $\chi^2/\text{NDF}: 5903883485.1/37$ $- \text{sign } 130754.098 \pm 0.036$ $\chi^2/\text{NDF}: 16676958788.6$
 Left In: 127406.911 ± 0.048 $\chi^2/\text{NDF}: 269927988.0/22$

yield_bpm0l04WS_rms vs Slug



Right In: 223.137 ± 0.039 $\chi^2/\text{NDF}: 5816862.1/34$

Left Out: 197.289 ± 0.033 $\chi^2/\text{NDF}: 852024.1/24$

Right Out: 215.608 ± 0.037 $\chi^2/\text{NDF}: 6339962.6/37$

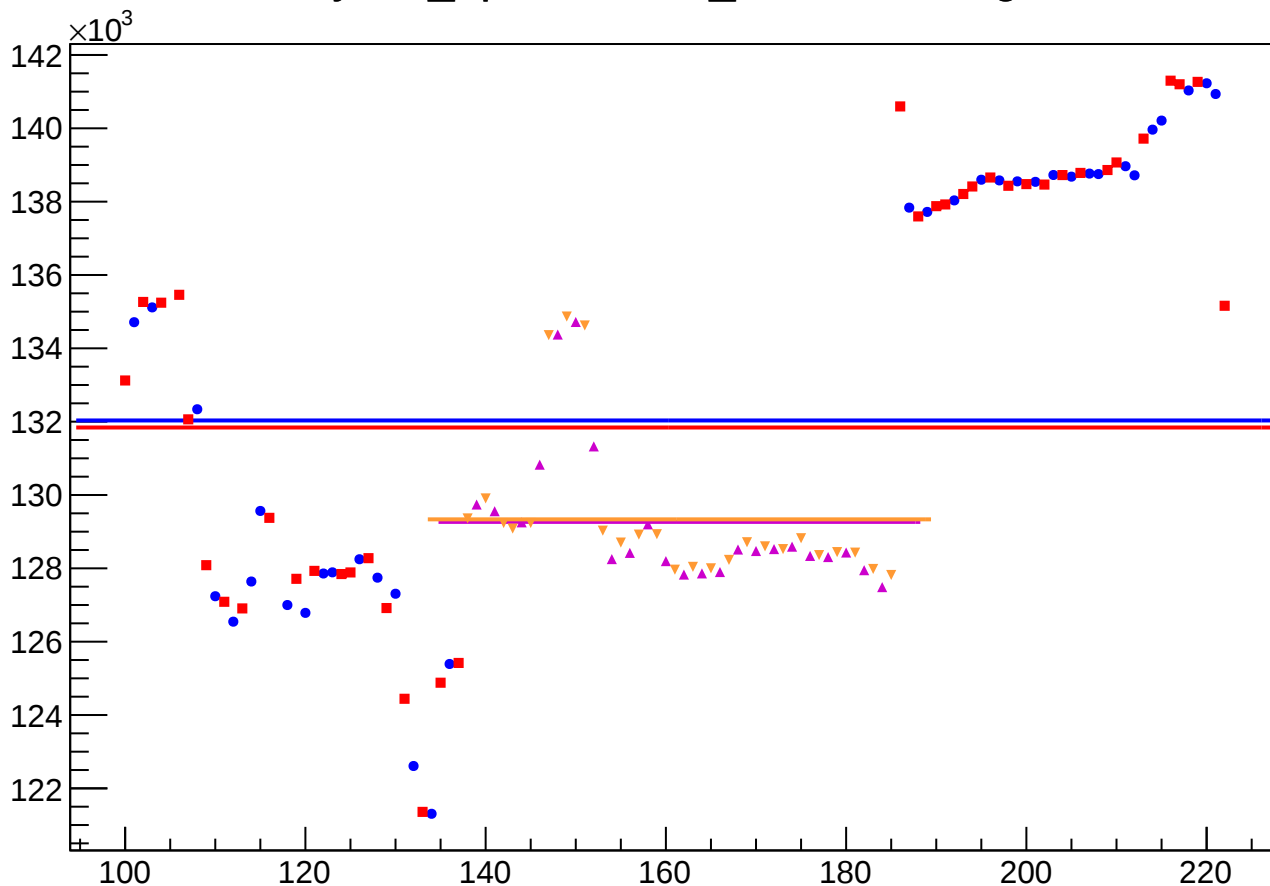
Left In: 197.471 ± 0.034 $\chi^2/\text{NDF}: 791577.5/22$

+ sign 208.004 ± 0.025 $\chi^2/\text{NDF}: 6921184.7/59$

All: 206.868 ± 0.018 $\chi^2/\text{NDF}: 14185001.7/12$

- sign 205.742 ± 0.025 $\chi^2/\text{NDF}: 7259817.0/60$

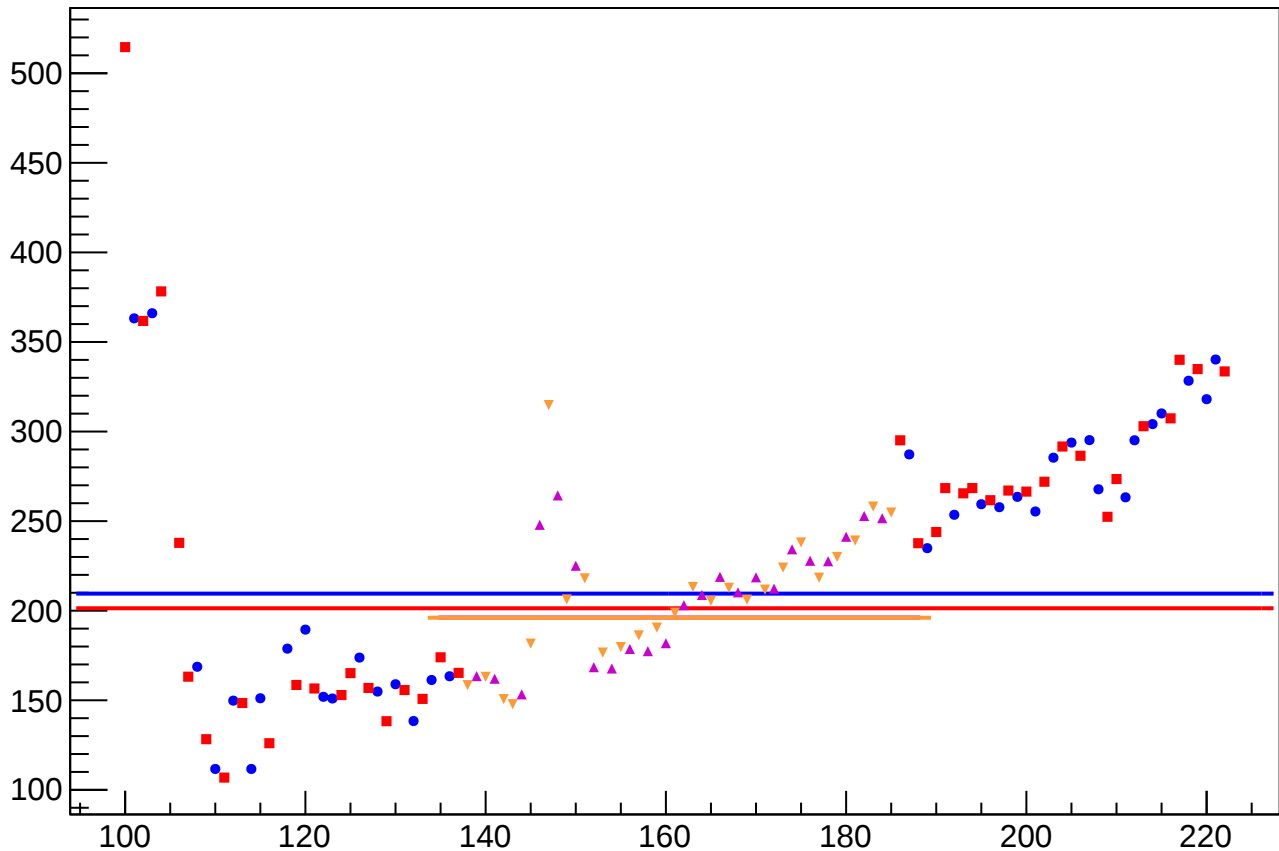
yield_bpm0l05WS_mean vs Slug



Right In: 132032.889 ± 0.051 $\chi^2/\text{NDF}: 15167600796.9/34$
 Left Out: 129335.946 ± 0.047 $\chi^2/\text{NDF}: 1450933621.0/24$
 Right Out: 131840.943 ± 0.048 $\chi^2/\text{NDF}: 15527942793.8/37$
 Left In: 129266.909 ± 0.048 $\chi^2/\text{NDF}: 1213762773.1/22$

+ sign 130572.930 ± 0.034 $\chi^2/\text{NDF}: 18146448728.$
 All: 130563.825 ± 0.024 $\chi^2/\text{NDF}: 363180190$
 - sign 130554.900 ± 0.034 $\chi^2/\text{NDF}: 18171431487.9$

yield_bpm0l05WS_rms vs Slug



Right In: 209.535 $\pm$ 0.036 χ^2 /NDF: 3773435.2/34

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 201.355 $\pm$ 0.034 χ^2 /NDF: 4596003.4/37

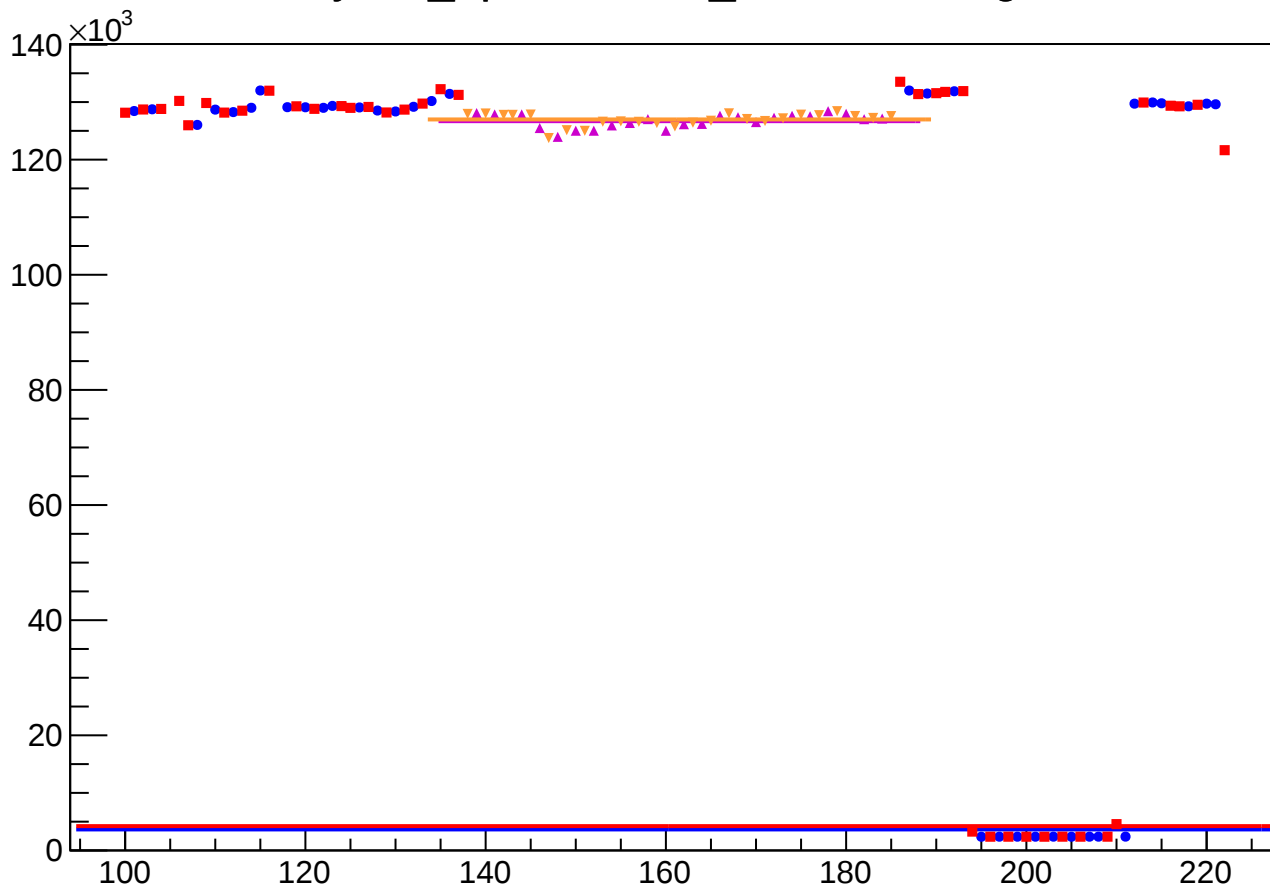
Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

+ sign 202.250 $\pm$ 0.024 χ^2 /NDF: 4825238.7/59

All: 200.494 $\pm$ 0.017 χ^2 /NDF: 10341164.8/12

- sign 198.773 $\pm$ 0.024 χ^2 /NDF: 5505593.7/60

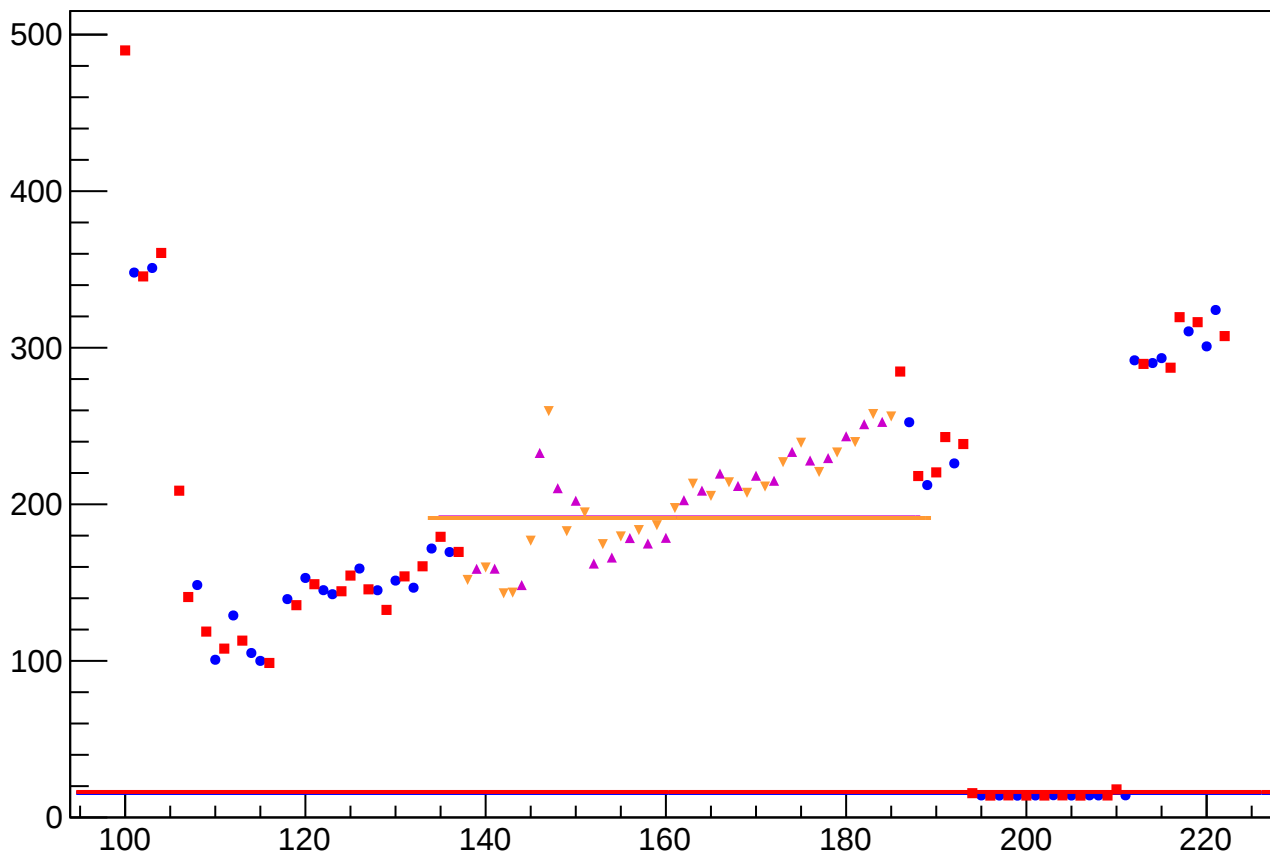
yield_bpm0l06WS_mean vs Slug



Right In: 3651.862 ± 0.005 $\chi^2/\text{NDF}: 5621422098151.1/34$
 Left Out: 126981.724 ± 0.046 $\chi^2/\text{NDF}: 530573115.8/24$
 Right Out: 4225.509 ± 0.006 $\chi^2/\text{NDF}: 6436145989814.9/37$
 Left In: 126682.659 ± 0.047 $\chi^2/\text{NDF}: 660415880.0/22$

+ sign 5307.373 ± 0.005 $\chi^2/\text{NDF}: 12863190573190$
 All: 5662.030 ± 0.004 $\chi^2/\text{NDF}: 25997107992$
 - sign 6090.915 ± 0.006 $\chi^2/\text{NDF}: 13123927750858$

yield_bpm0l06WS_rms vs Slug



Right In: 15.638 ± 0.004 $\chi^2/\text{NDF}: 20750960.6/34$

Left Out: 191.263 ± 0.032 $\chi^2/\text{NDF}: 992566.2/24$

Right Out: 16.278 ± 0.004 $\chi^2/\text{NDF}: 22357498.3/37$

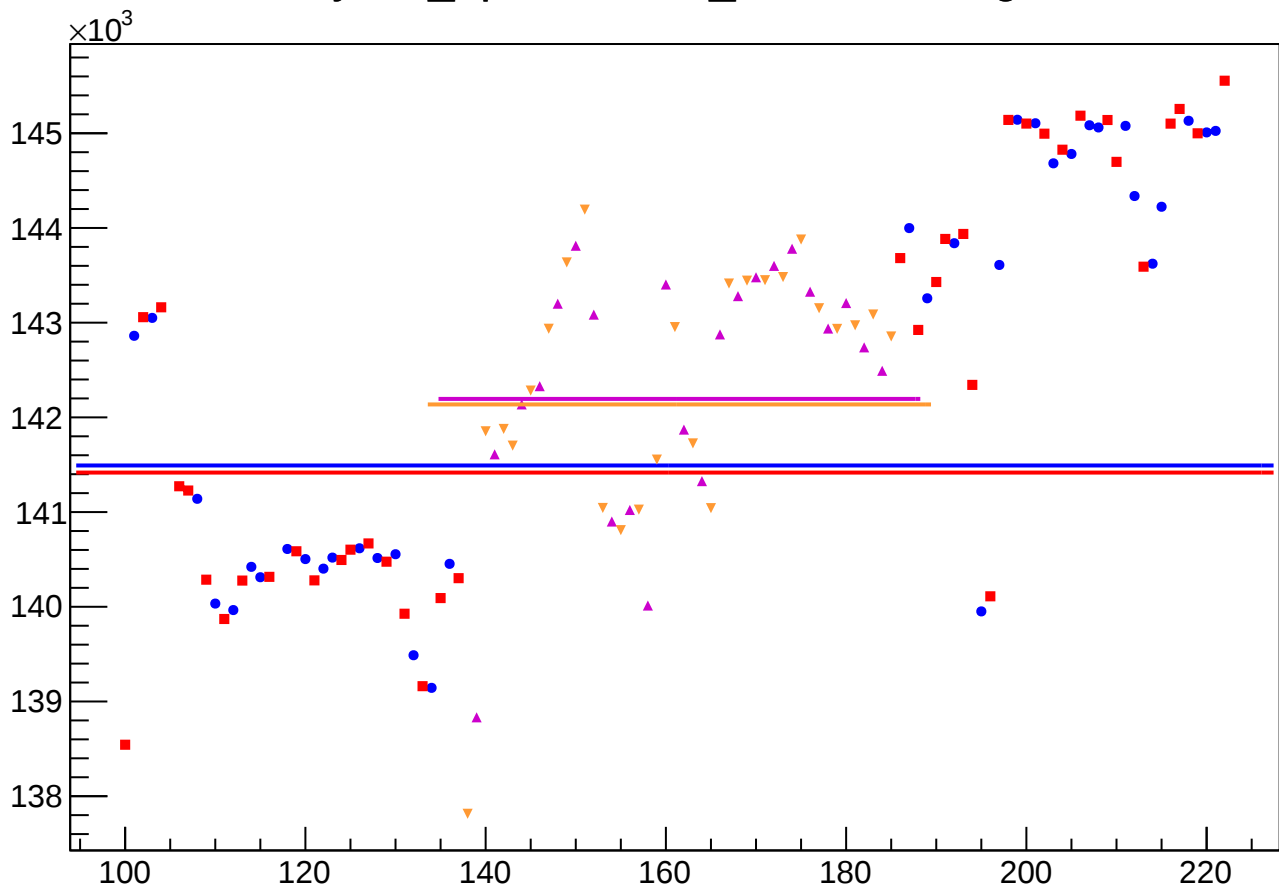
Left In: 191.683 ± 0.033 $\chi^2/\text{NDF}: 864384.9/22$

+ sign 17.996 ± 0.004 $\chi^2/\text{NDF}: 51111730.3/59$

All: 18.428 ± 0.003 $\chi^2/\text{NDF}: 101803175.3/12$

- sign 18.950 ± 0.004 $\chi^2/\text{NDF}: 50661829.5/60$

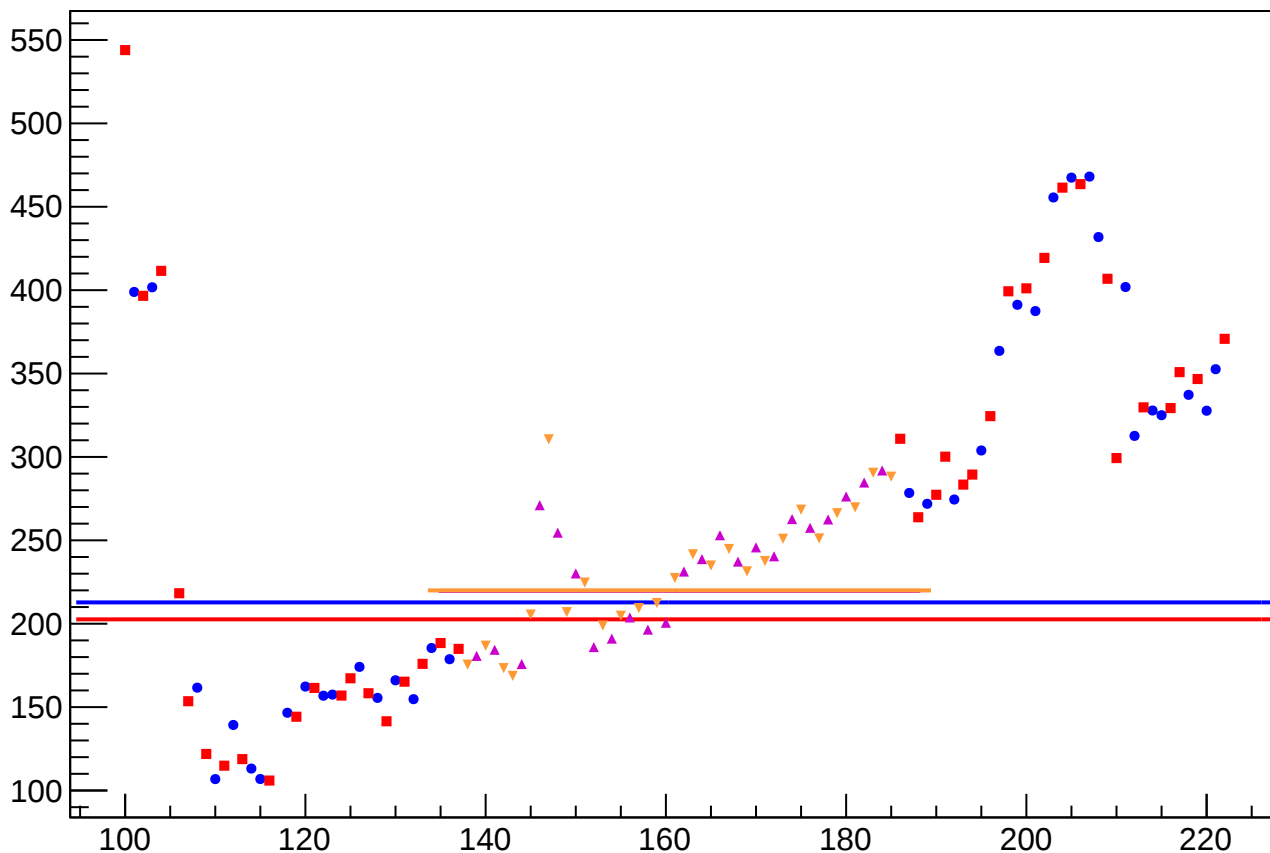
yield_bpm0l07WS_mean vs Slug



Right In: 141492.112 ± 0.054 $\chi^2/\text{NDF}: 1248559265.1/34$
 Left Out: 142136.579 ± 0.052 $\chi^2/\text{NDF}: 815573343.0/24$
 Right Out: 141417.180 ± 0.050 $\chi^2/\text{NDF}: 1374243511.4/37$
 Left In: 142195.020 ± 0.054 $\chi^2/\text{NDF}: 644030906.9/22$

+ sign 141824.302 ± 0.038 $\chi^2/\text{NDF}: 2137637464.3$
 All: 141802.082 ± 0.026 $\chi^2/\text{NDF}: 42676739$
 - sign 141780.732 ± 0.037 $\chi^2/\text{NDF}: 2129350452.0$

yield_bpm0l07WS_rms vs Slug



Right In: 212.784+/-0.038 χ^2/NDF : 6982581.8/34

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 202.626+/-0.036 χ^2/NDF : 7593940.6/37

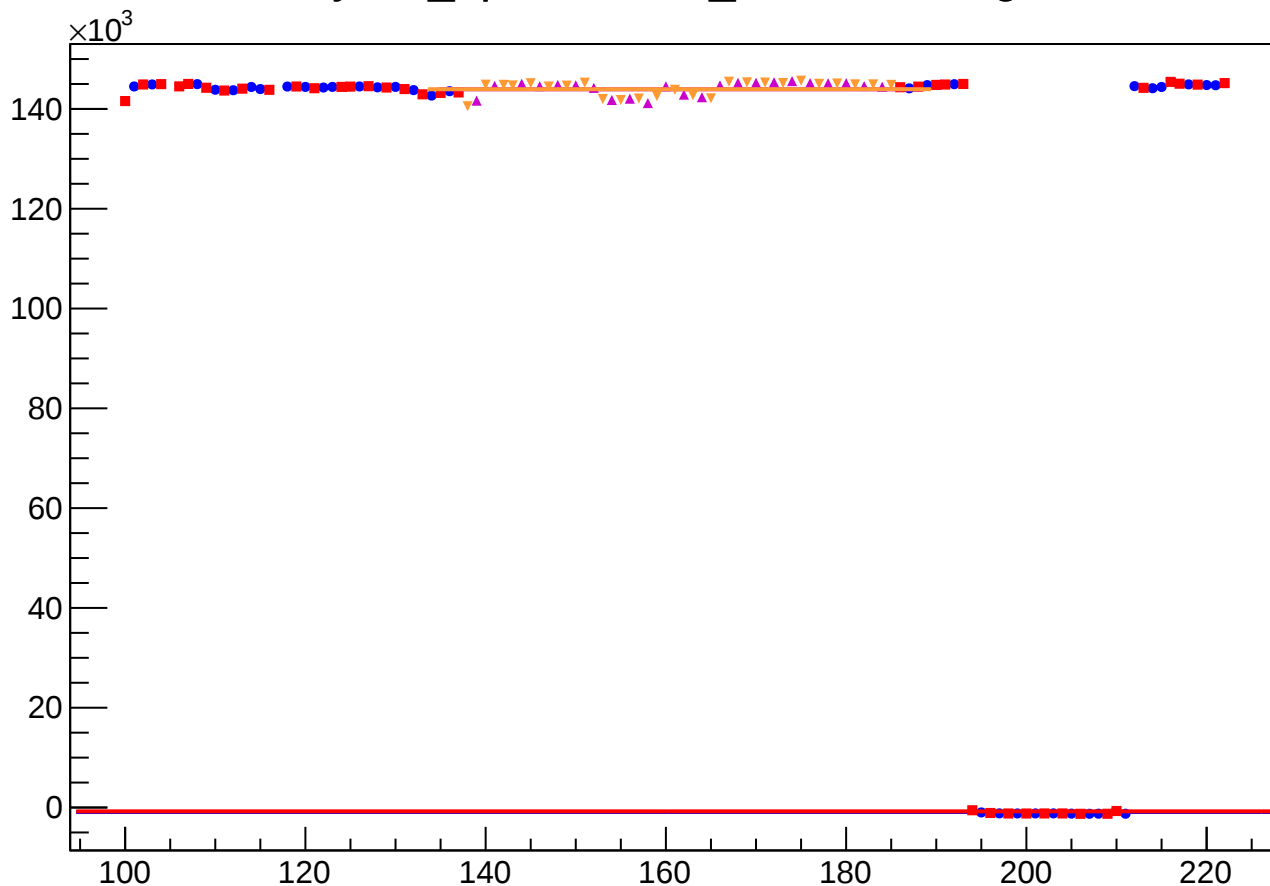
Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

+ sign 216.488+/-0.027 χ^2/NDF : 7867470.6/59

All: 213.484+/-0.019 χ^2/NDF : 16406059.9/12

- sign 210.599+/-0.026 χ^2/NDF : 8513528.0/60

yield_bpm0l08WS_mean vs Slug



Right In: -902.025 ± 0.003 χ^2/NDF : 6108594523883.8/34

Left Out: 143951.284 ± 0.052 χ^2/NDF : 864679545.2/24

Right Out: -768.618 ± 0.003 χ^2/NDF : 7092312800208.2/37

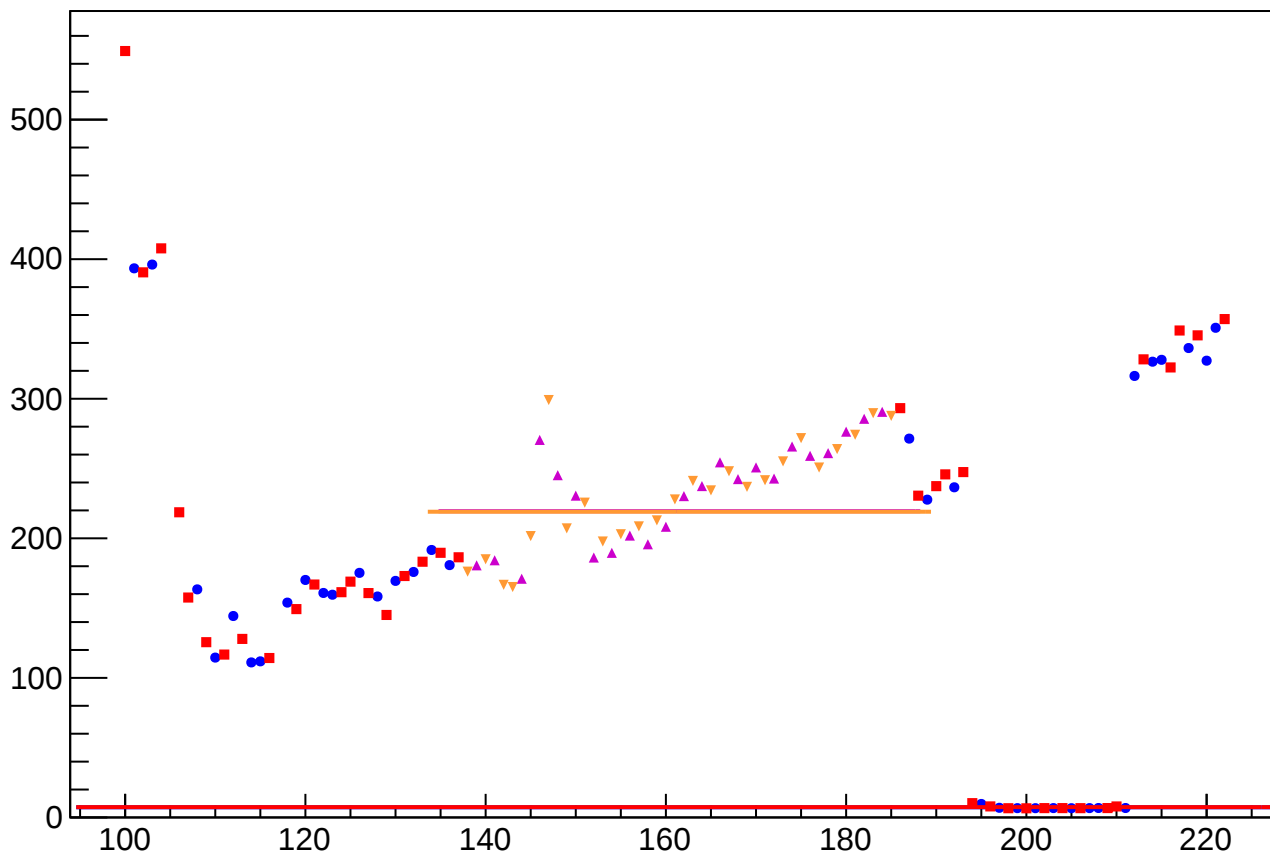
Left In: 143938.288 ± 0.054 χ^2/NDF : 719814685.6/22

+ sign -532.771 ± 0.003 χ^2/NDF : 13809239080354

All: -450.689 ± 0.002 χ^2/NDF : 28107130915

- sign -351.763 ± 0.003 χ^2/NDF : 14295747567275

yield_bpm0l08WS_rms vs Slug



Right In: 7.277 ± 0.002 $\chi^2/\text{NDF}: 22849553.6/34$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.393 ± 0.002 $\chi^2/\text{NDF}: 24686312.3/37$

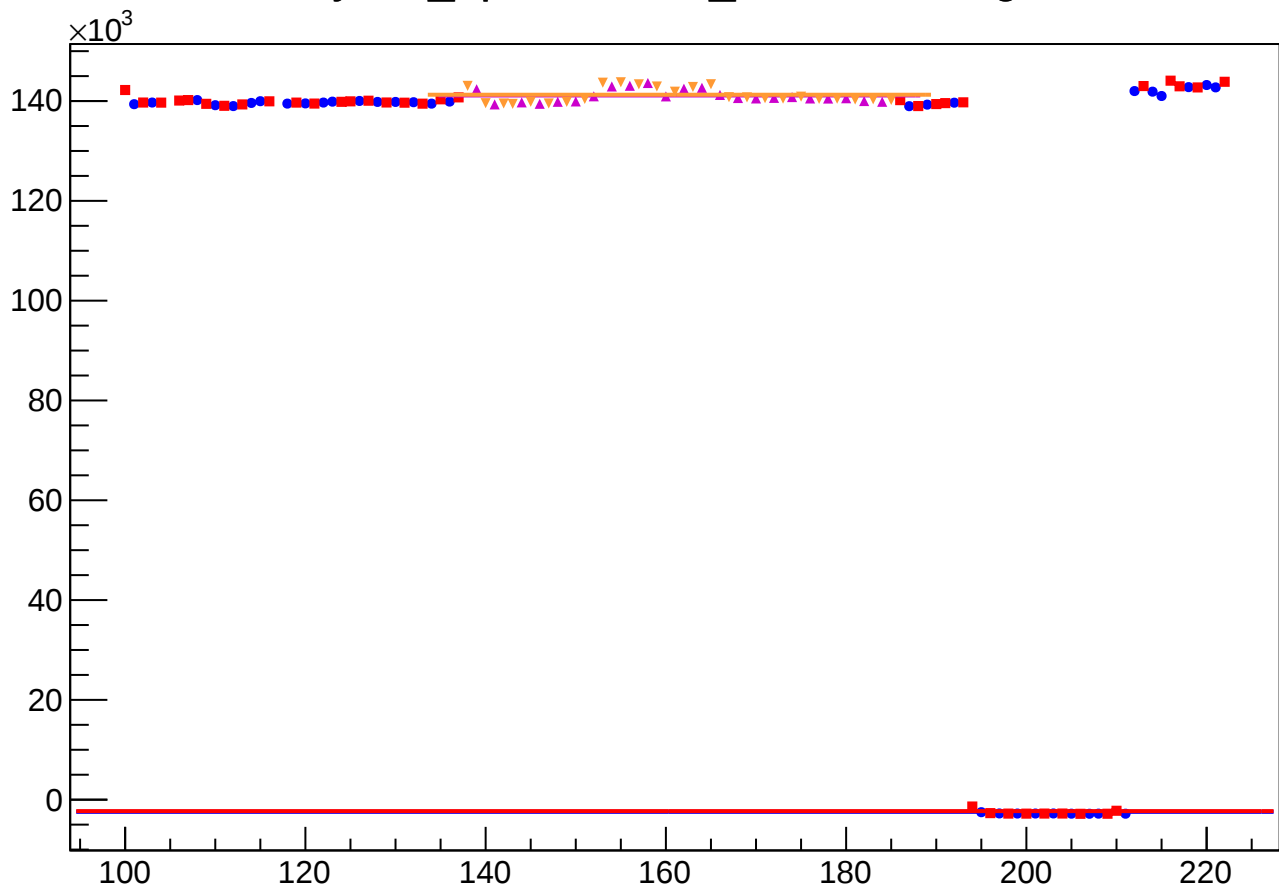
Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

+ sign 7.817 ± 0.002 $\chi^2/\text{NDF}: 56698674.7/59$

All: 7.902 ± 0.001 $\chi^2/\text{NDF}: 113167727.9/120$

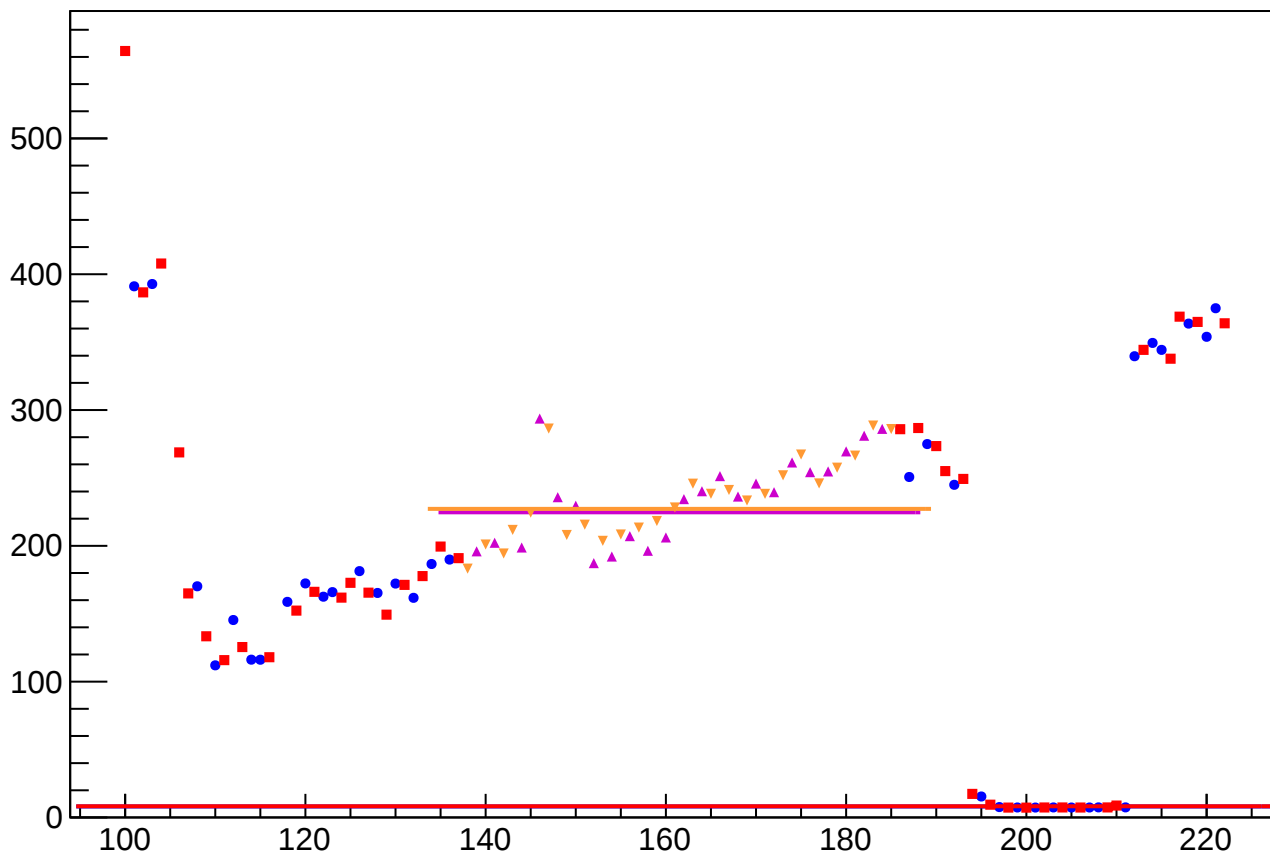
- sign 8.004 ± 0.002 $\chi^2/\text{NDF}: 56464488.3/60$

yield_bpm0l09WS_mean vs Slug



Right In: -2439.894 ± 0.003 χ^2/NDF : 5563585693803.6/34
 Left Out: 141268.791 ± 0.054 χ^2/NDF : 795989244.2/24
 Right Out: -2291.303 ± 0.003 χ^2/NDF : 6420591944101.2/37
 Left In: 141119.484 ± 0.055 χ^2/NDF : 565312728.1/22

yield_bpm0l09WS_rms vs Slug



Right In: 8.081 ± 0.002 χ^2/NDF : 22981585.5/34

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.231 ± 0.002 χ^2/NDF : 24700711.9/37

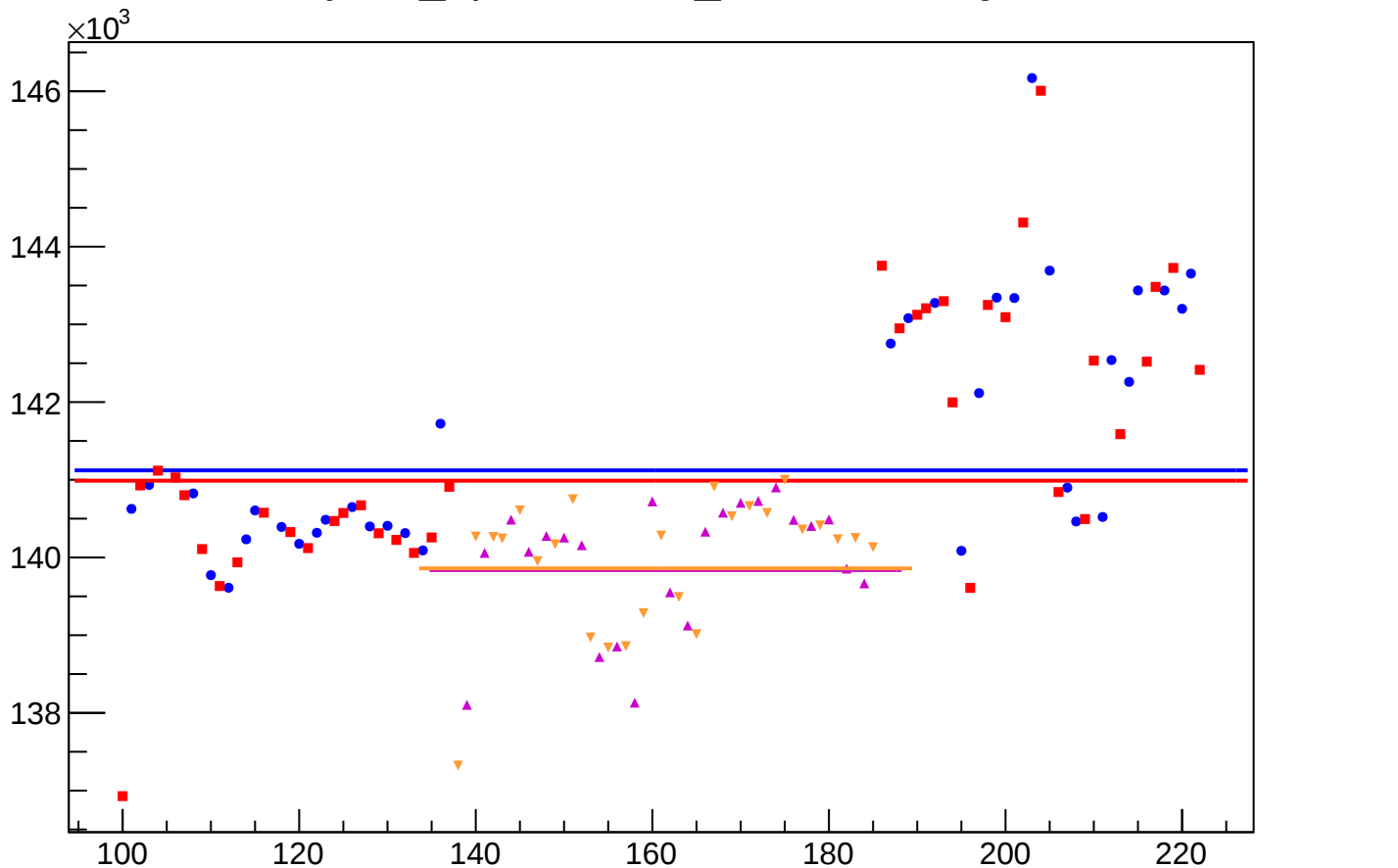
Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

+ sign 8.740 ± 0.002 χ^2/NDF : 56674803.6/59

All: 8.849 ± 0.002 χ^2/NDF : 112925396.9/120

- sign 8.981 ± 0.002 χ^2/NDF : 56244487.8/60

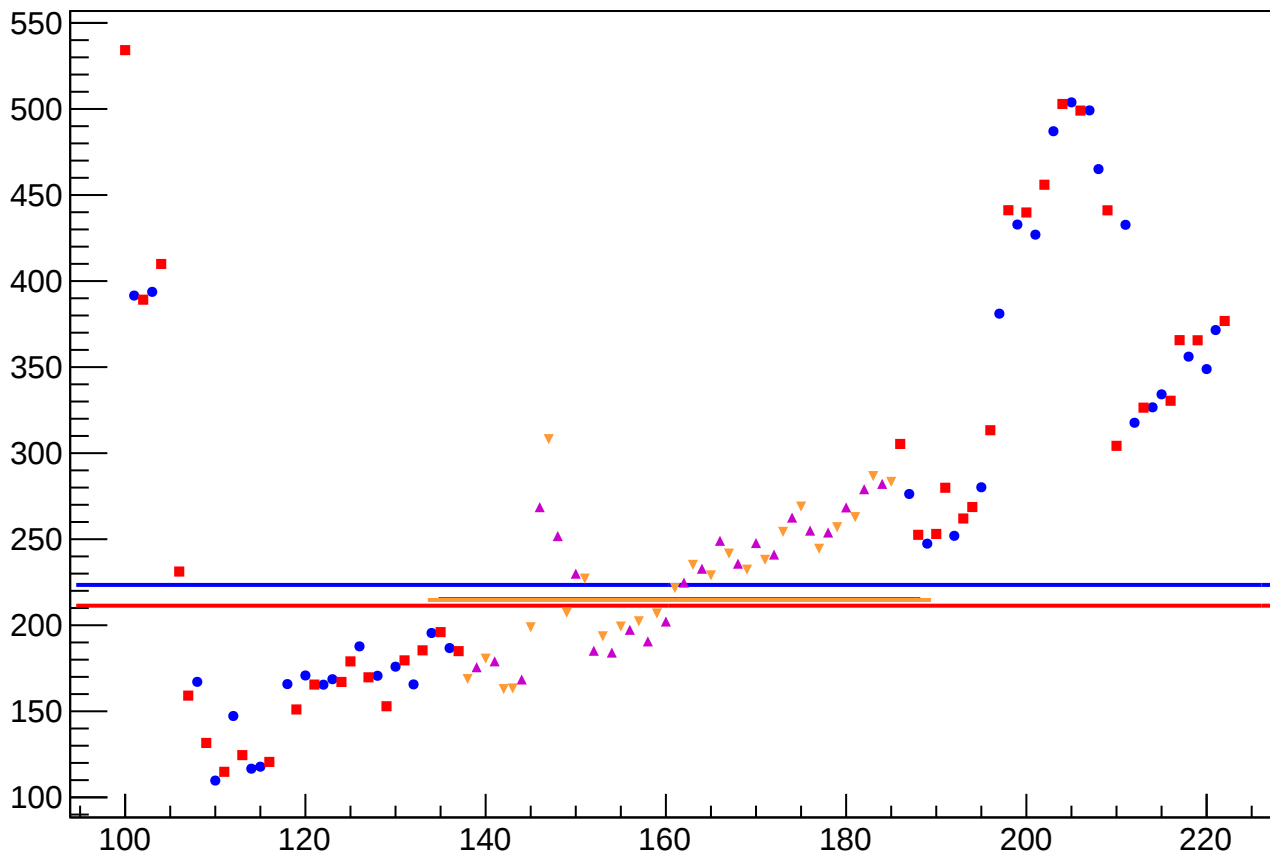
yield_bpm0l10WS_mean vs Slug



Right In: 141121.309 ± 0.056 $\chi^2/\text{NDF}: 582181170.9/34$
 Left Out: 139859.696 ± 0.051 $\chi^2/\text{NDF}: 330118281.5/24$
 Right Out: 140988.538 ± 0.052 $\chi^2/\text{NDF}: 643036851.2/37$
 Left In: 139838.724 ± 0.053 $\chi^2/\text{NDF}: 279573689.3/22$

+ sign 140427.518 ± 0.038 $\chi^2/\text{NDF}: 1186676265.1$
 All: 140422.993 ± 0.027 $\chi^2/\text{NDF}: 234850653$
 - sign 140418.639 ± 0.037 $\chi^2/\text{NDF}: 1161802291.9$

yield_bpm0l10WS_rms vs Slug



Right In: 223.438+/-0.040 χ^2/NDF : 6678061.2/34

Left Out: 214.693+/-0.036 χ^2/NDF : 981105.5/24

Right Out: 211.374+/-0.037 χ^2/NDF : 7155201.8/37

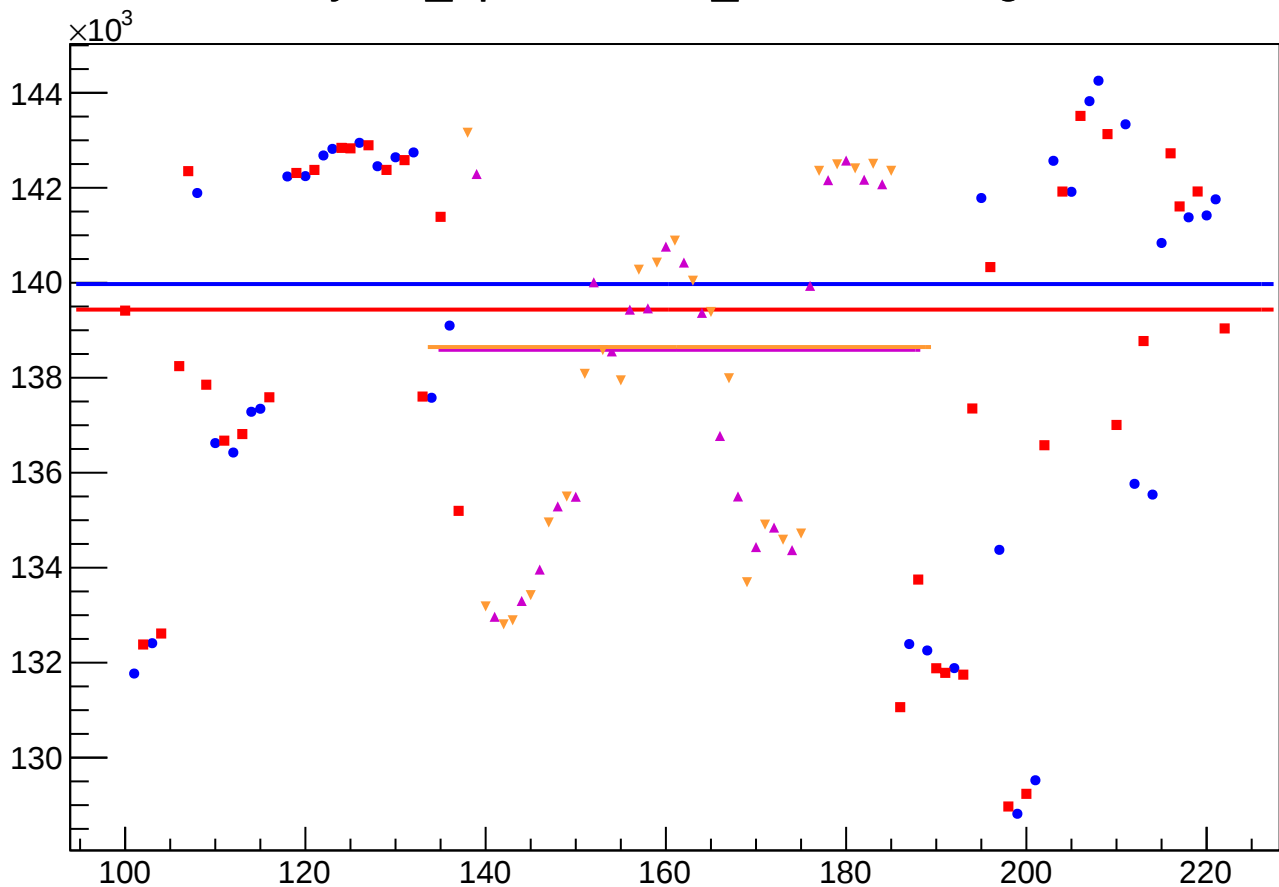
Left In: 215.222+/-0.037 χ^2/NDF : 881945.0/22

+ sign 218.629+/-0.027 χ^2/NDF : 7685537.3/59

All: 215.904+/-0.019 χ^2/NDF : 15748343.0/12

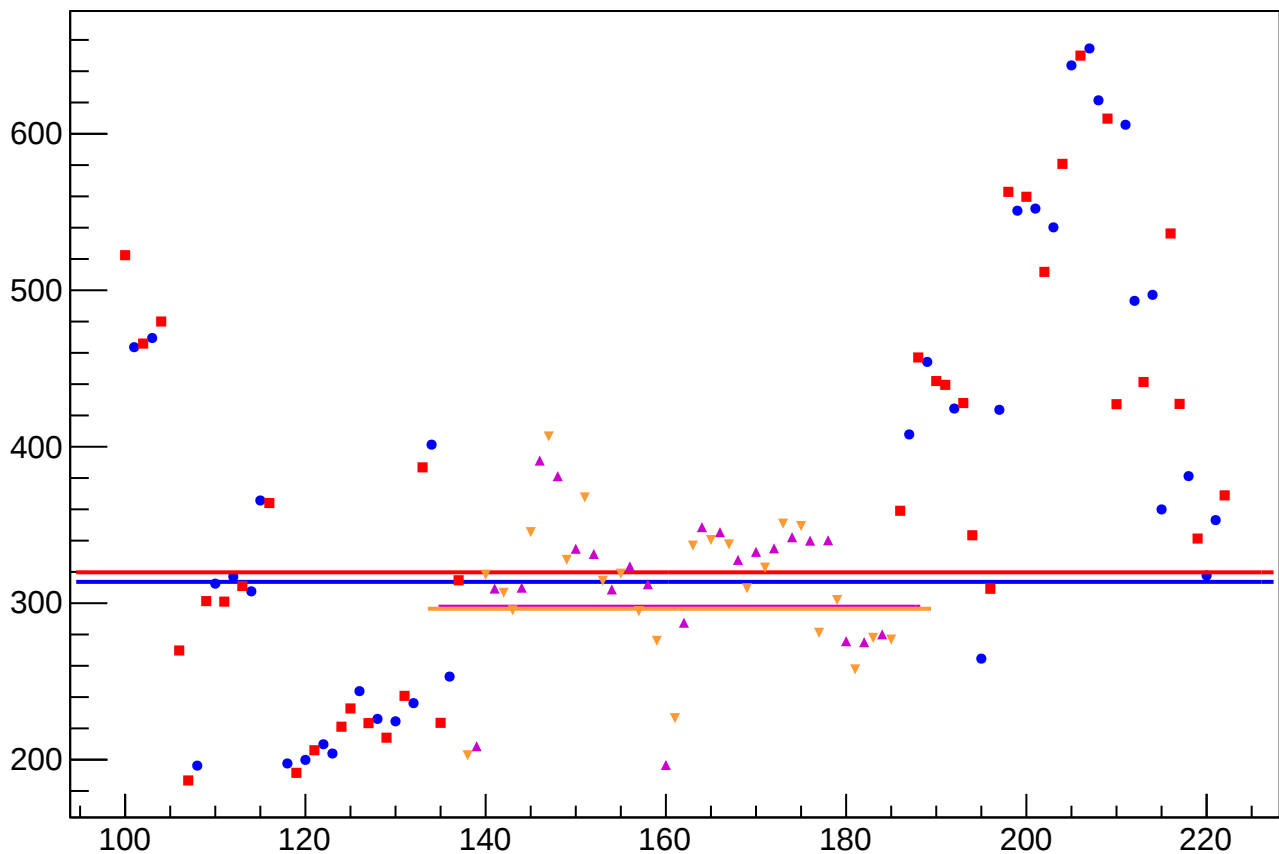
- sign 213.281+/-0.026 χ^2/NDF : 8042504.2/60

yield_bpm0r03WS_mean vs Slug



Right In: 139972.852 ± 0.078 $\chi^2/\text{NDF}: 2432978243.2/34$
 Left Out: 138646.366 ± 0.071 $\chi^2/\text{NDF}: 2548637600.4/24$
 Right Out: 139435.201 ± 0.077 $\chi^2/\text{NDF}: 2528648169.9/37$
 Left In: 138588.711 ± 0.074 $\chi^2/\text{NDF}: 1948065195.1/22$

yield_bpm0r03WS_rms vs Slug



Right In: 313.640 ± 0.055 $\chi^2/\text{NDF}: 5028326.7/34$

Left Out: 296.464 ± 0.050 $\chi^2/\text{NDF}: 893579.7/24$

Right Out: 319.738 ± 0.054 $\chi^2/\text{NDF}: 4751894.2/37$

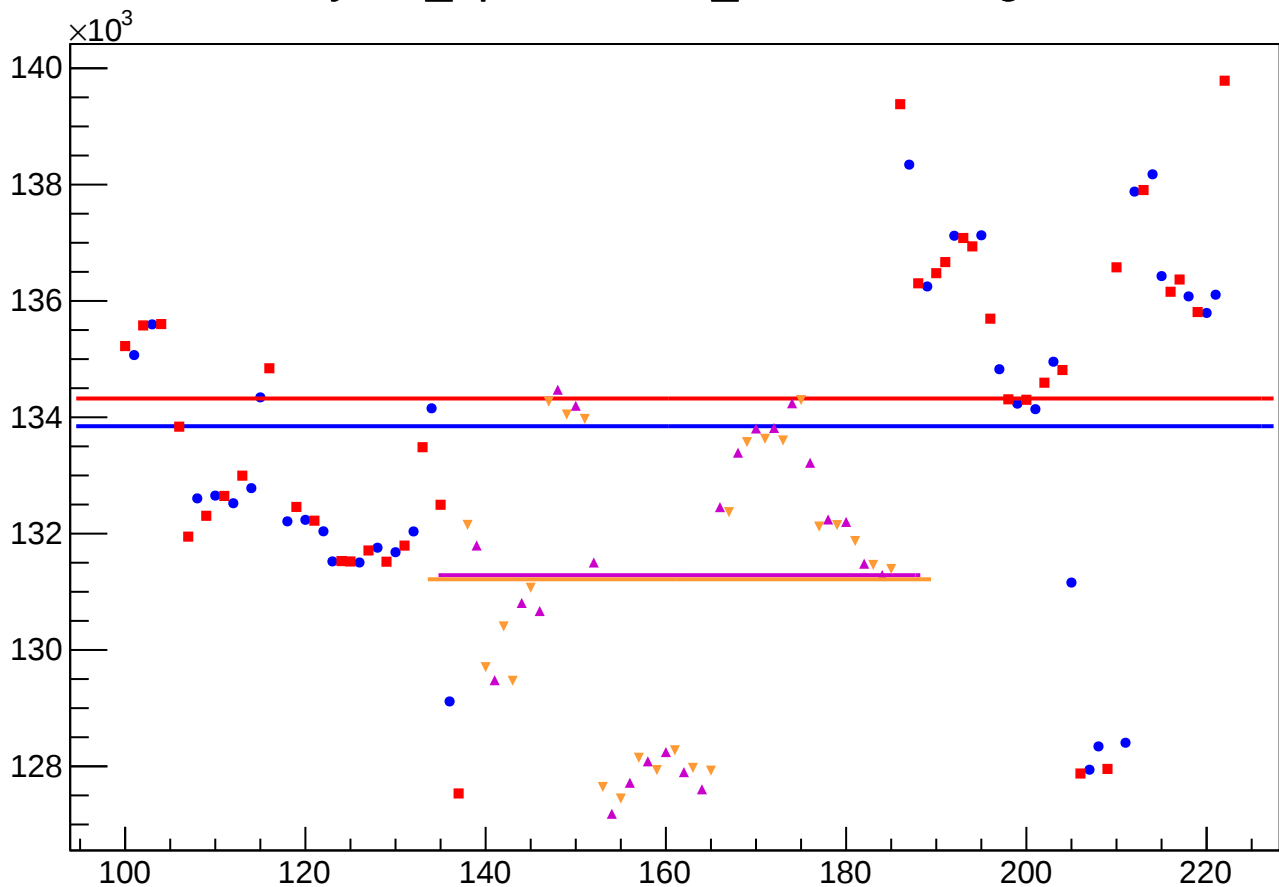
Left In: 297.774 ± 0.052 $\chi^2/\text{NDF}: 1061489.5/22$

+ sign 304.256 ± 0.037 $\chi^2/\text{NDF}: 5975226.6/59$

All: 306.246 ± 0.026 $\chi^2/\text{NDF}: 11879653.4/12$

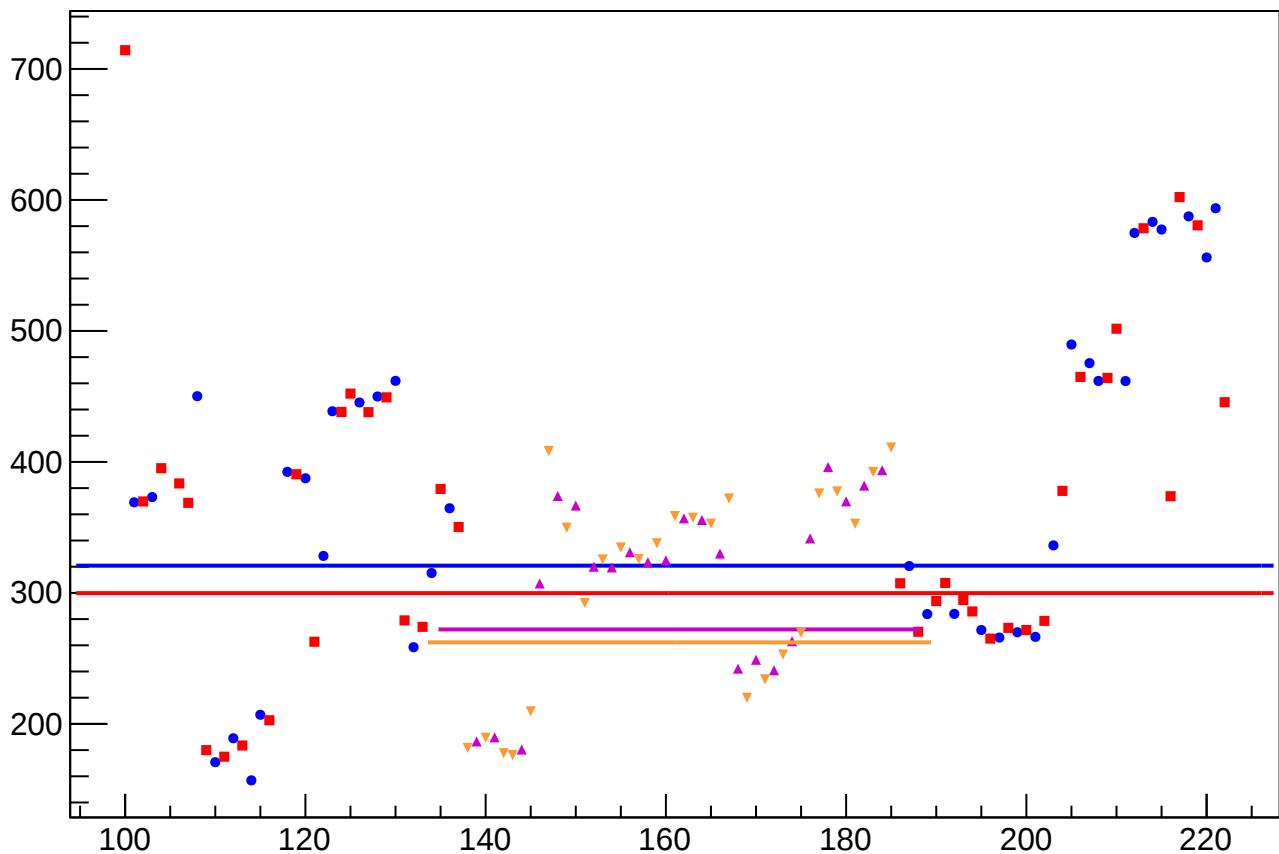
- sign 308.296 ± 0.038 $\chi^2/\text{NDF}: 5898565.5/60$

yield_bpm0r05WS_mean vs Slug



Right In: 133846.637 $\pm$ 0.078	χ^2 /NDF: 1062009039.6/34	+ sign 132281.692 $\pm$ 0.050	χ^2 /NDF: 2914069008.9
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	All: 132514.525 $\pm$ 0.035	χ^2 /NDF: 614480760
Right Out: 134323.043 $\pm$ 0.071	χ^2 /NDF: 1181941881.2/37	- sign 132744.268 $\pm$ 0.049	χ^2 /NDF: 3186954068.7
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22		

yield_bpm0r05WS_rms vs Slug



Right In: 320.804 ± 0.055 $\chi^2/\text{NDF}: 4235101.2/34$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 299.838 ± 0.050 $\chi^2/\text{NDF}: 3989379.3/37$

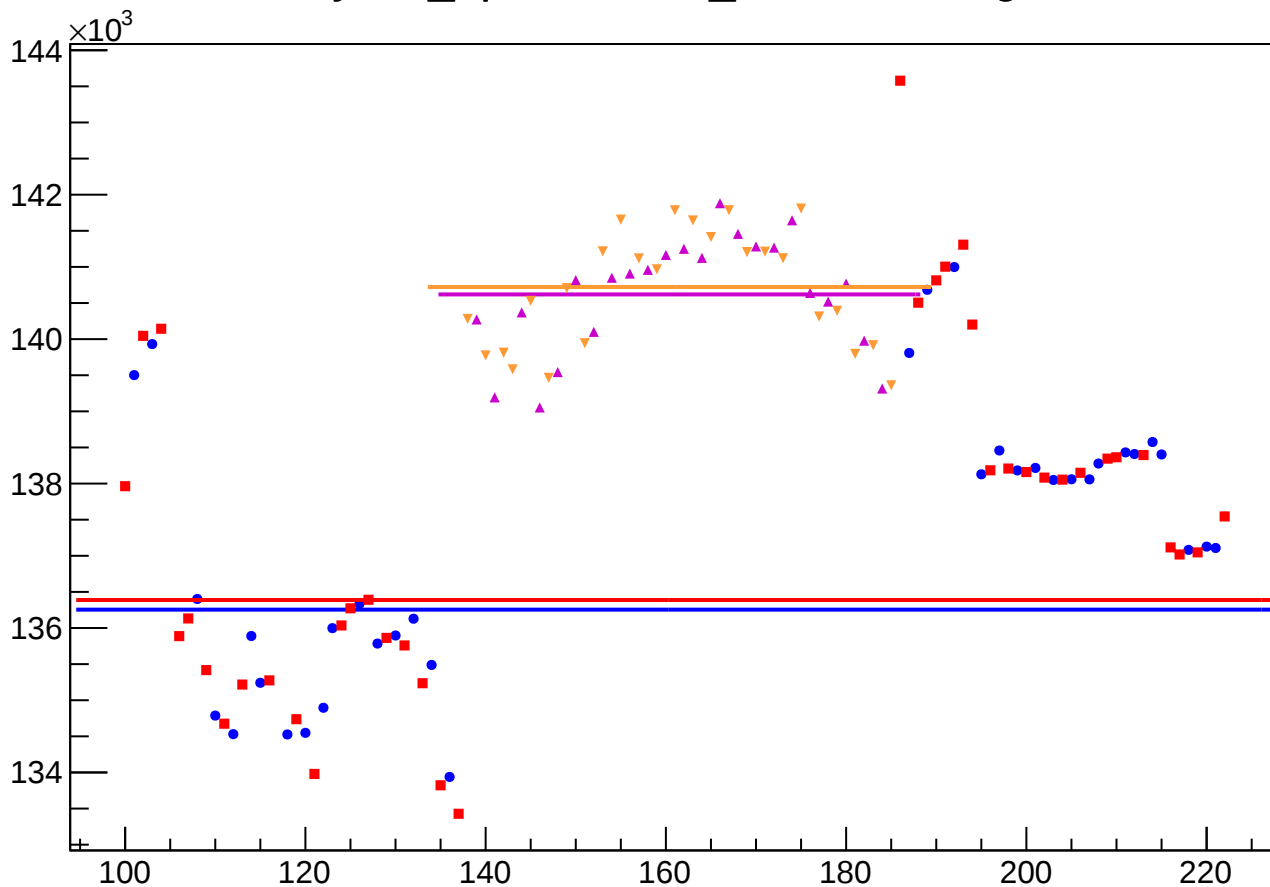
Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

+ sign 285.990 ± 0.035 $\chi^2/\text{NDF}: 7724969.5/59$

All: 285.707 ± 0.025 $\chi^2/\text{NDF}: 14094487.1/12$

- sign 285.428 ± 0.035 $\chi^2/\text{NDF}: 6369388.6/60$

yield_bpm0i02WS_mean vs Slug



Right In: 136254.521 $\pm$ 0.045 χ^2 /NDF: 1679946768.6/34

Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24

Right Out: 136387.832 $\pm$ 0.043 χ^2 /NDF: 2232648140.4/37

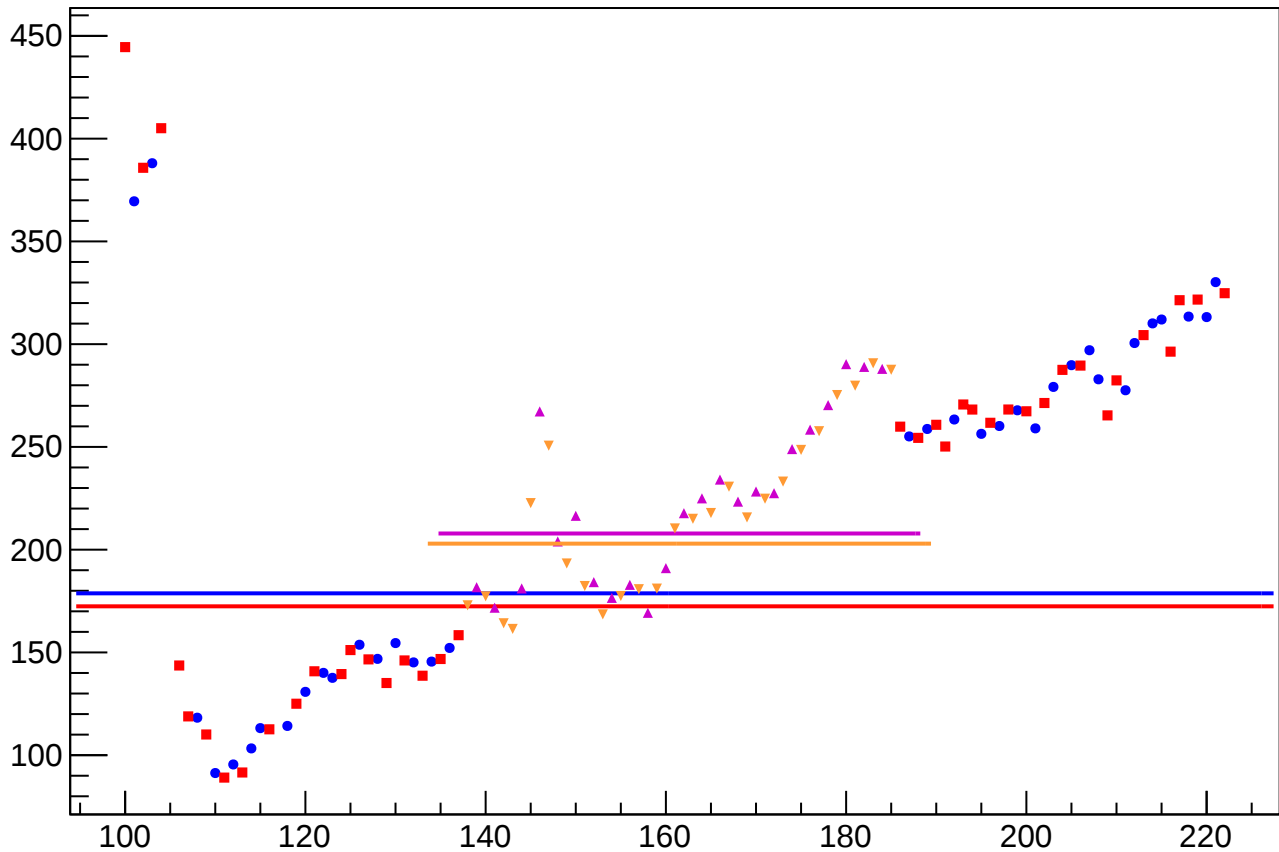
Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22

+ sign 138321.252 $\pm$ 0.033 χ^2 /NDF: 6503896510.3

All: 138223.082 $\pm$ 0.023 χ^2 /NDF: 129966193

- sign 138125.998 $\pm$ 0.033 χ^2 /NDF: 6475040989.6

yield_bpm0i02WS_rms vs Slug



Right In: 178.751+/-0.032 χ^2/NDF : 6452045.7/34

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 172.432+/-0.030 χ^2/NDF : 7095333.2/37

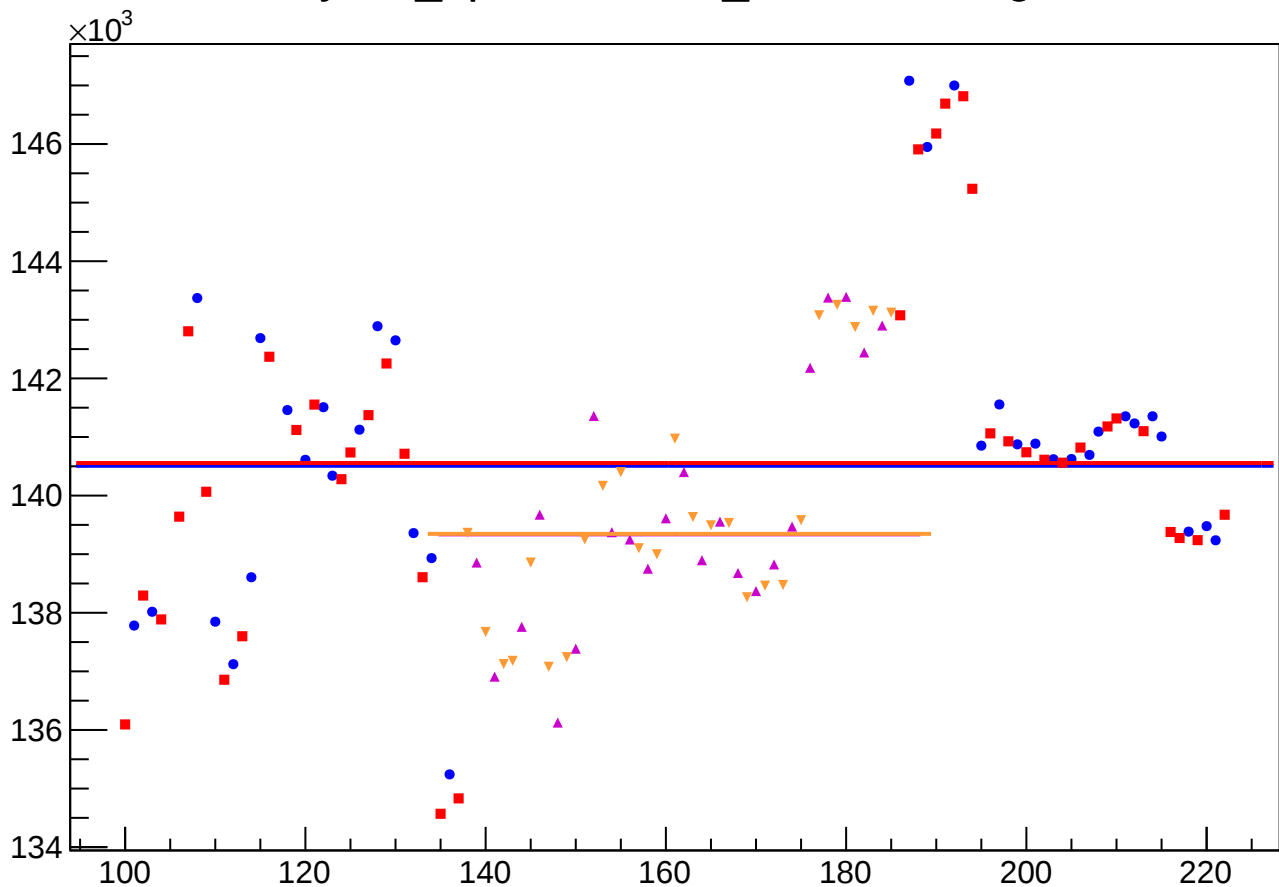
Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

+ sign 189.939+/-0.023 χ^2/NDF : 7772562.9/59

All: 188.457+/-0.016 χ^2/NDF : 16392277.6/12

- sign 186.991+/-0.023 χ^2/NDF : 8611652.7/60

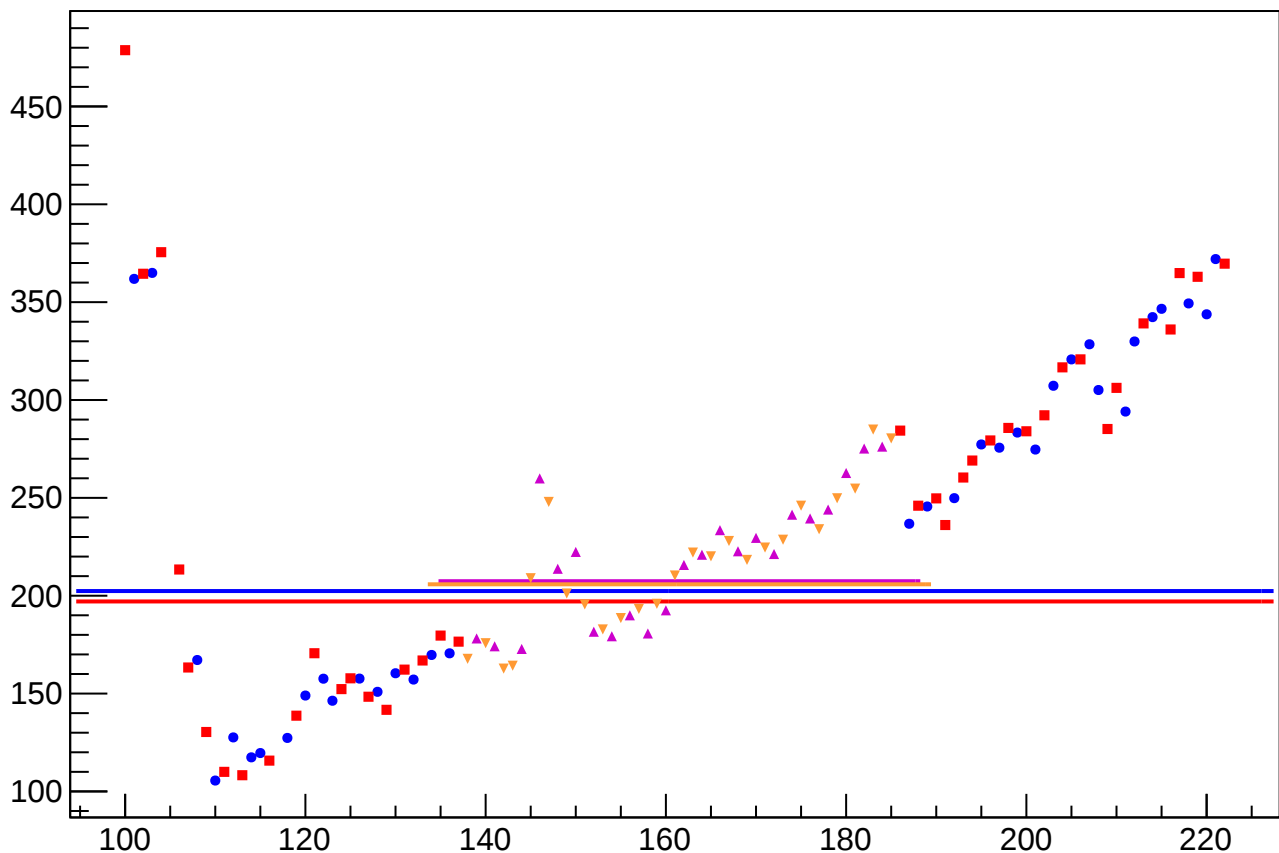
yield_bpm0i02aWS_mean vs Slug



Right In: 140509.147 $\pm$ 0.050 χ^2 /NDF: 2809368388.0/34
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140555.951 $\pm$ 0.048 χ^2 /NDF: 3254462915.8/37
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22

+ sign 139915.335 $\pm$ 0.035 χ^2 /NDF: 4356308235.6
 All: 139949.460 $\pm$ 0.025 χ^2 /NDF: 920985780
 - sign 139983.317 $\pm$ 0.035 χ^2 /NDF: 4851655276.3

yield_bpm0i02aWS_rms vs Slug



Right In: 202.384+/-0.035 χ^2/NDF : 5354526.4/34

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 197.067+/-0.034 χ^2/NDF : 5893844.1/37

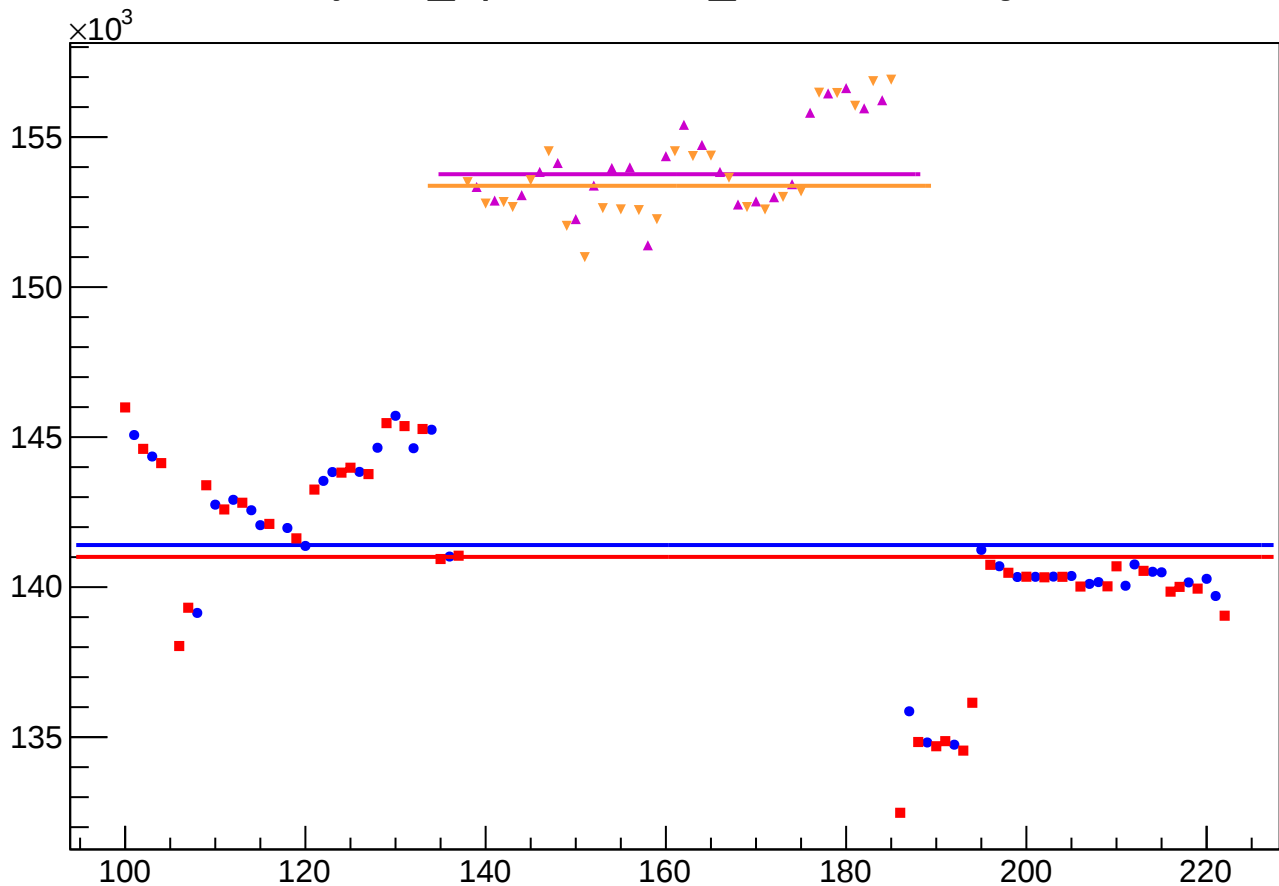
Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

+ sign 204.146+/-0.025 χ^2/NDF : 6098045.3/59

All: 203.035+/-0.017 χ^2/NDF : 12741776.7/12

- sign 201.932+/-0.025 χ^2/NDF : 6639715.2/60

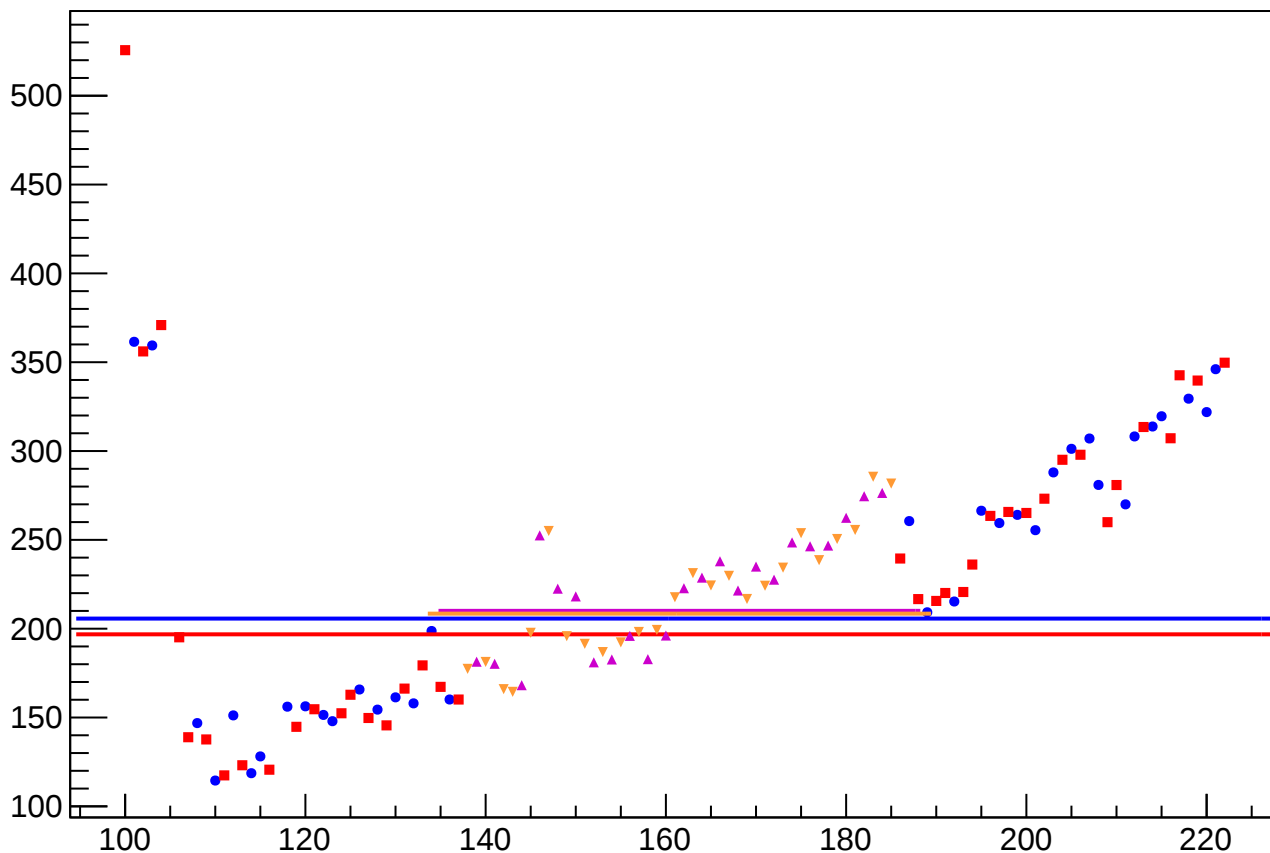
yield_bpm0i05WS_mean vs Slug



Right In: 141402.766 $\pm$ 0.050 χ^2 /NDF: 2781584895.3/34
 Left Out: 153376.698 $\pm$ 0.050 χ^2 /NDF: 803848095.1/24
 Right Out: 141007.618 $\pm$ 0.047 χ^2 /NDF: 4498393822.3/37
 Left In: 153762.419 $\pm$ 0.051 χ^2 /NDF: 635075685.0/22

+ sign 147427.537 $\pm$ 0.035 χ^2 /NDF: 32615922753.
 All: 147107.200 $\pm$ 0.025 χ^2 /NDF: 714869752.
 - sign 146795.577 $\pm$ 0.035 χ^2 /NDF: 38707085537.8

yield_bpm0i05WS_rms vs Slug



Right In: 205.689 $\pm$ 0.035 χ^2 /NDF: 3980681.7/34

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 196.826 $\pm$ 0.033 χ^2 /NDF: 4485307.6/37

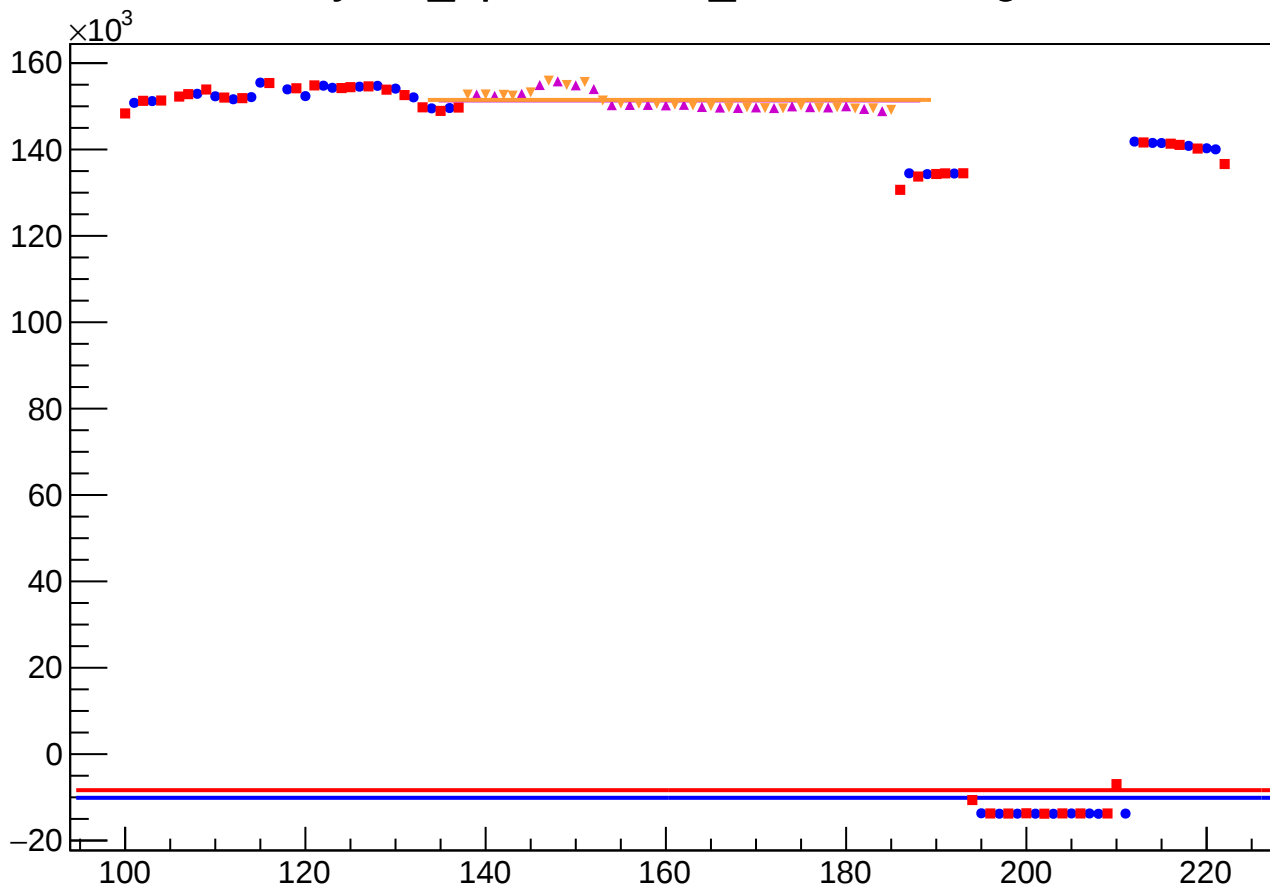
Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

+ sign 207.086 $\pm$ 0.025 χ^2 /NDF: 4704698.7/59

All: 204.924 $\pm$ 0.017 χ^2 /NDF: 9979362.8/120

- sign 202.821 $\pm$ 0.025 χ^2 /NDF: 5259726.7/60

yield_bpm0i07WS_mean vs Slug



Right In: -10109.592 ± 0.009

χ^2/NDF : 6853998791166.9/34

Left Out: 151483.385 ± 0.050

χ^2/NDF : 1481910066.9/24

Right Out: -8344.709 ± 0.010

χ^2/NDF : 7964819090834.2/37

Left In: 151363.165 ± 0.051

χ^2/NDF : 1421662089.0/22

+ sign -4709.173 ± 0.009

χ^2/NDF : 1714698510949

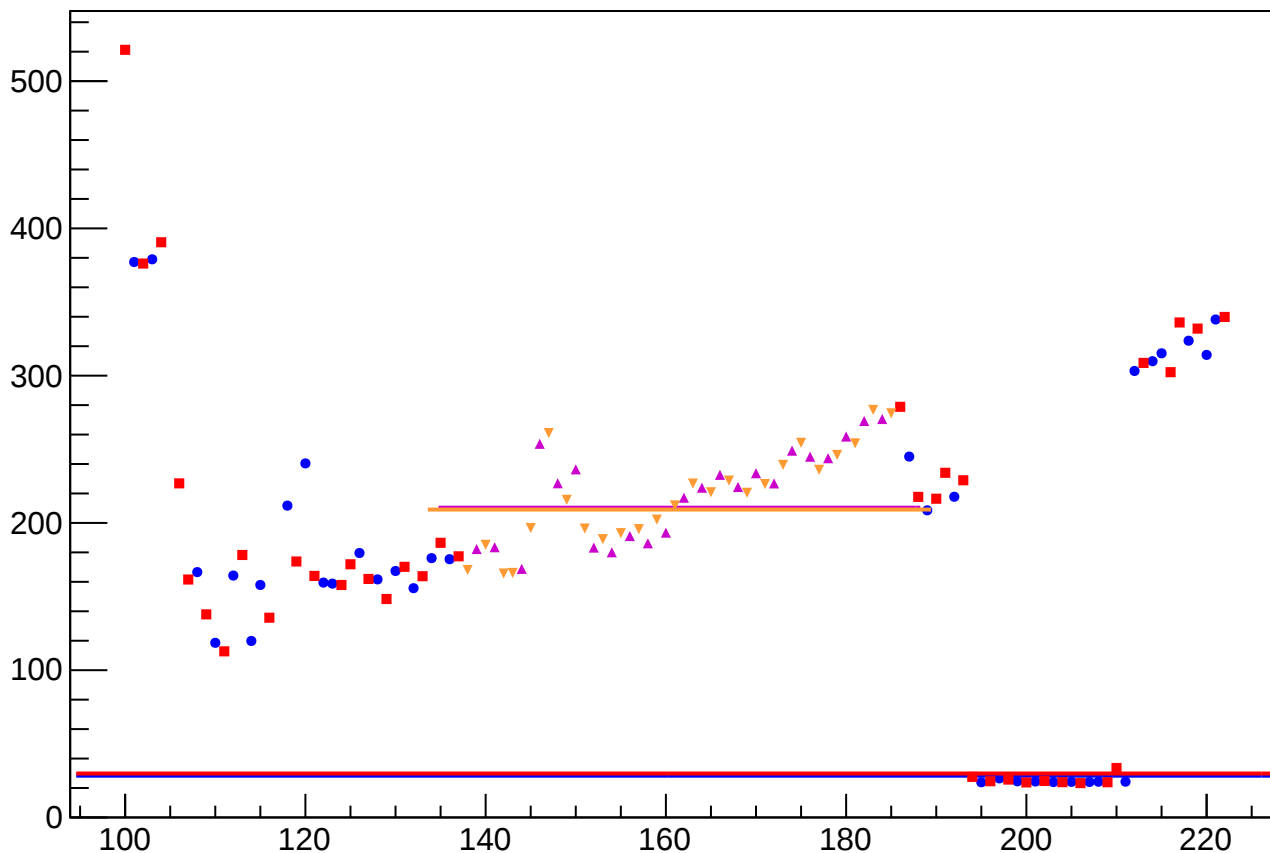
All: -3687.018 ± 0.007

χ^2/NDF : 3444037018

- sign -2476.291 ± 0.010

χ^2/NDF : 17265538400697

yield_bpm0i07WS_rms vs Slug



Right In: 28.369 ± 0.007 $\chi^2/\text{NDF}: 18477001.0/34$

Left Out: 209.076 ± 0.035 $\chi^2/\text{NDF}: 708260.3/24$

Right Out: 29.829 ± 0.007 $\chi^2/\text{NDF}: 19791262.2/37$

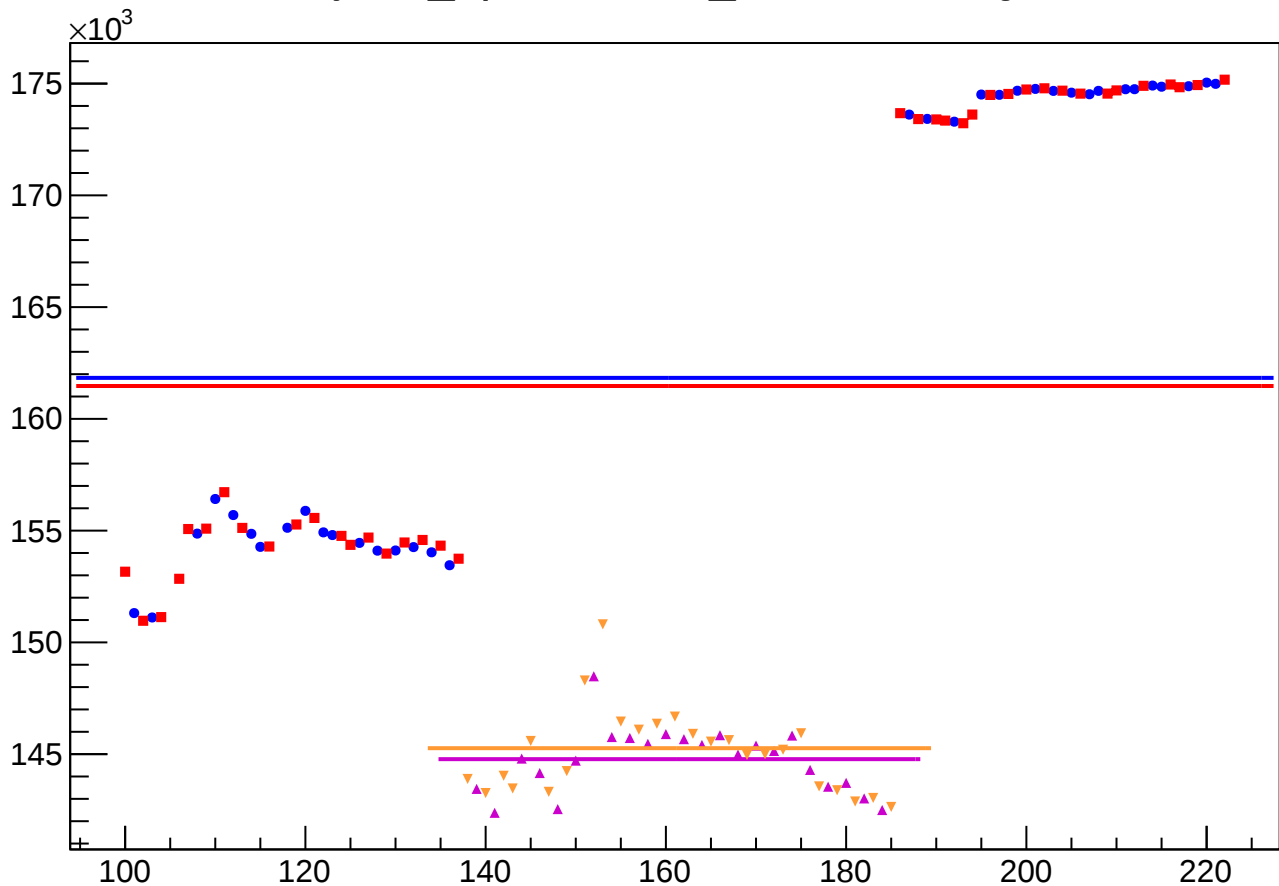
Left In: 210.345 ± 0.036 $\chi^2/\text{NDF}: 677747.7/22$

+ sign 34.408 ± 0.006 $\chi^2/\text{NDF}: 44925616.8/59$

All: 35.348 ± 0.005 $\chi^2/\text{NDF}: 89202388.5/120$

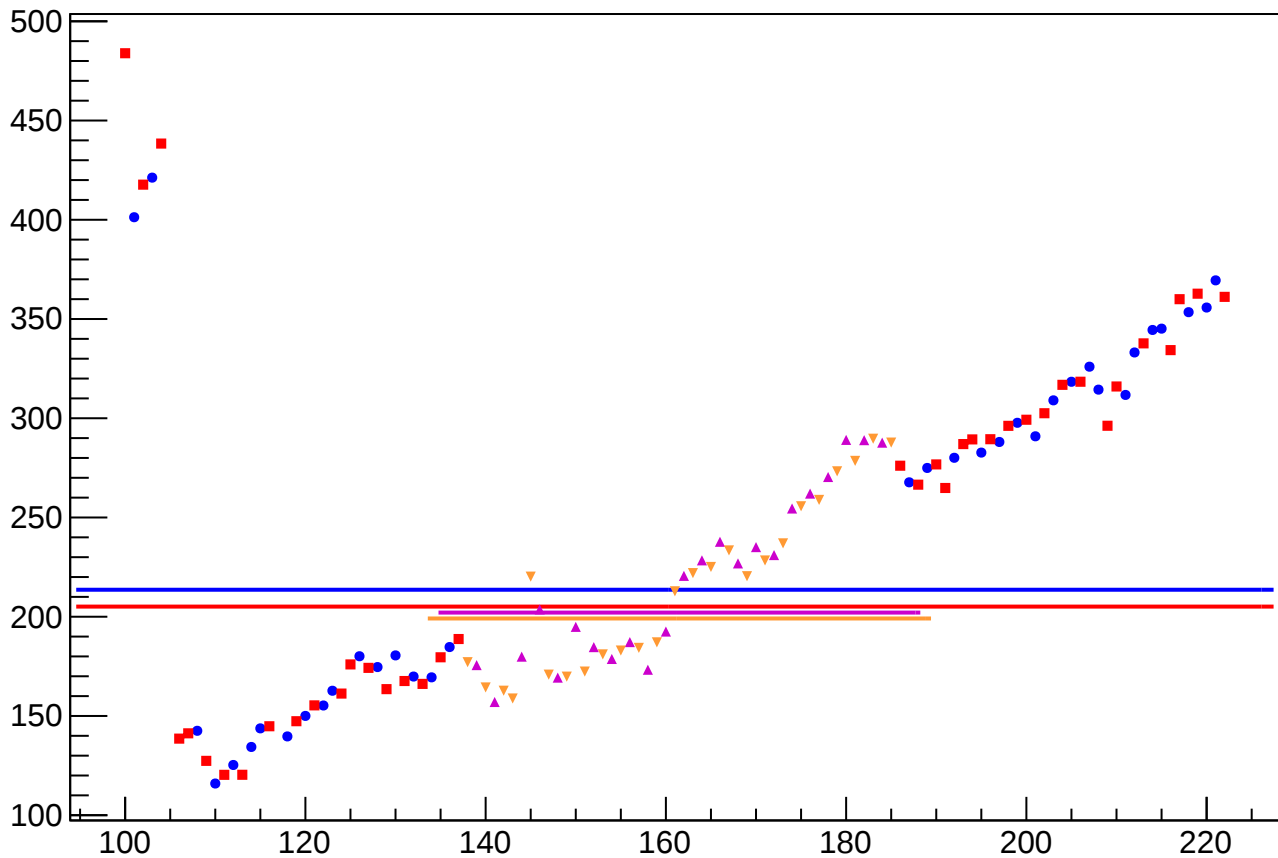
- sign 36.462 ± 0.007 $\chi^2/\text{NDF}: 44229645.3/60$

yield_bpm1i02WS_mean vs Slug



Right In: 161834.434 $\pm$ 0.052 χ^2/NDF : 32726822497.4/34
 Left Out: 145266.717 $\pm$ 0.047 χ^2/NDF : 1717707352.7/24
 Right Out: 161470.332 $\pm$ 0.049 χ^2/NDF : 35297289161.1/37
 Left In: 144776.016 $\pm$ 0.050 χ^2/NDF : 918120275.4/22
 All: 152927.145 $\pm$ 0.025 χ^2/NDF : 182501387

yield_bpm1i02WS_rms vs Slug



Right In: 213.597 $\pm$ 0.037 χ^2 /NDF: 5146708.7/34

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 205.108 $\pm$ 0.035 χ^2 /NDF: 5699998.9/37

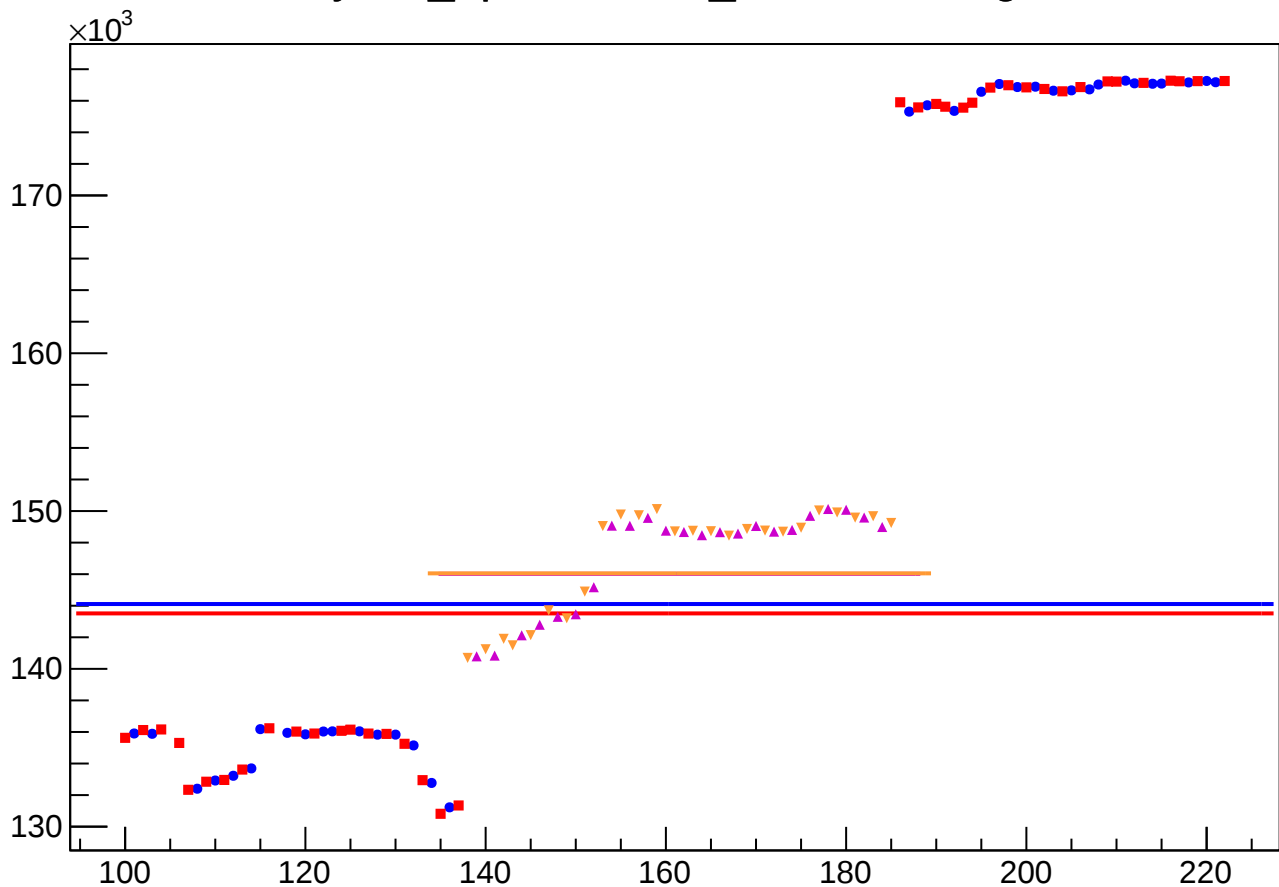
Left In: 202.090 $\pm$ 0.035 χ^2 /NDF:1057833.2/22

+ sign 205.622 $\pm$ 0.025 χ^2 /NDF: 6382785.7/59

All: 204.607 $\pm$ 0.018 χ^2 /NDF: 13147645.2/12

- sign 203.603 $\pm$ 0.025 χ^2 /NDF: 6761547.9/60

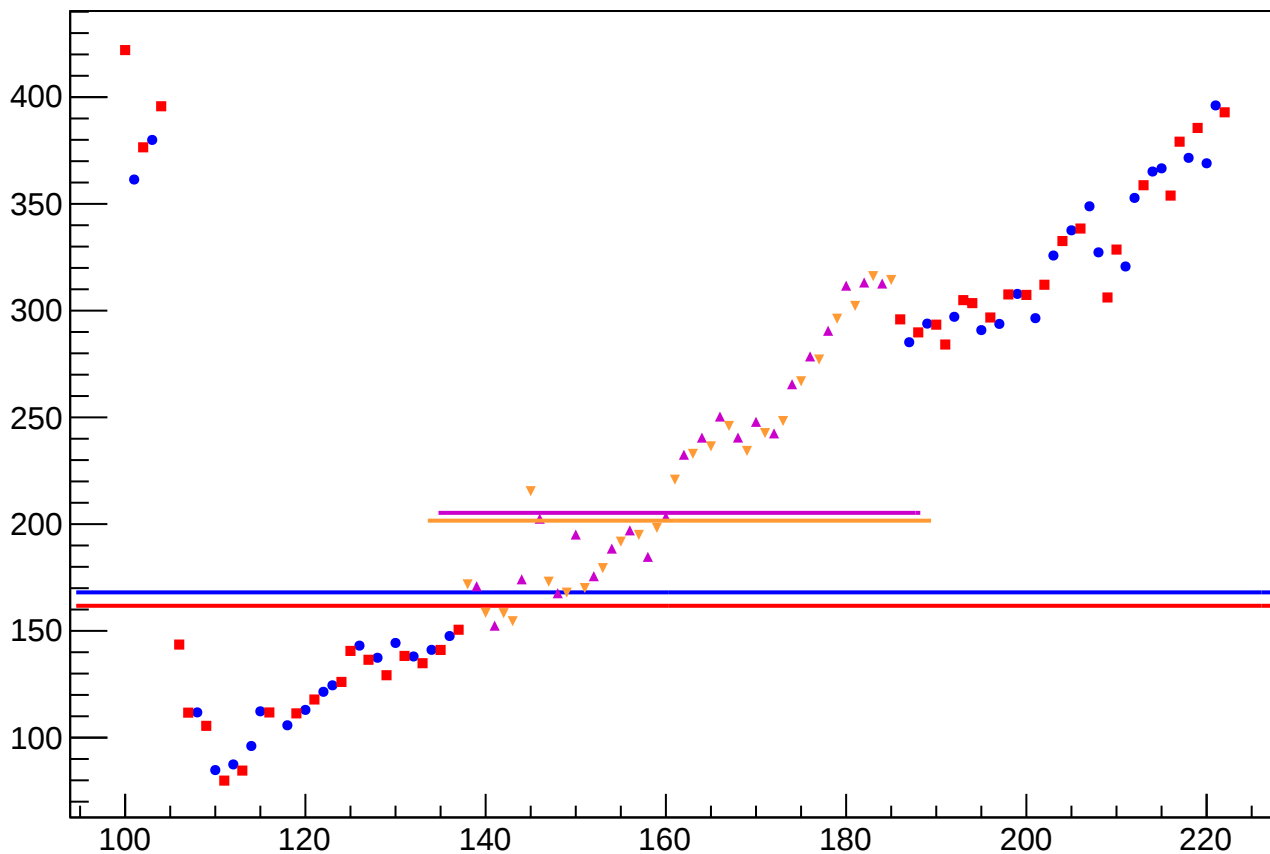
yield_bpm1i04WS_mean vs Slug



Right In: 144107.849 ± 0.044 $\chi^2/\text{NDF}: 165044893101.9/34$
 Left Out: 146051.733 ± 0.048 $\chi^2/\text{NDF}: 5403300123.1/24$
 Right Out: 143513.651 ± 0.042 $\chi^2/\text{NDF}: 177865665885.0/37$
 Left In: 146020.015 ± 0.051 $\chi^2/\text{NDF}: 4591425371.4/22$

All: 144759.665 ± 0.023 $\chi^2/\text{NDF}: 355343592$
 + sign 144993.434 ± 0.033 $\chi^2/\text{NDF}: 171329868643$
 - sign 144530.705 ± 0.032 $\chi^2/\text{NDF}: 183911962329$

yield_bpm1i04WS_rms vs Slug



Right In: 168.038 $\pm$ 0.031 χ^2 /NDF: 9298974.4/34

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 161.753 $\pm$ 0.030 χ^2 /NDF: 10070248.2/37

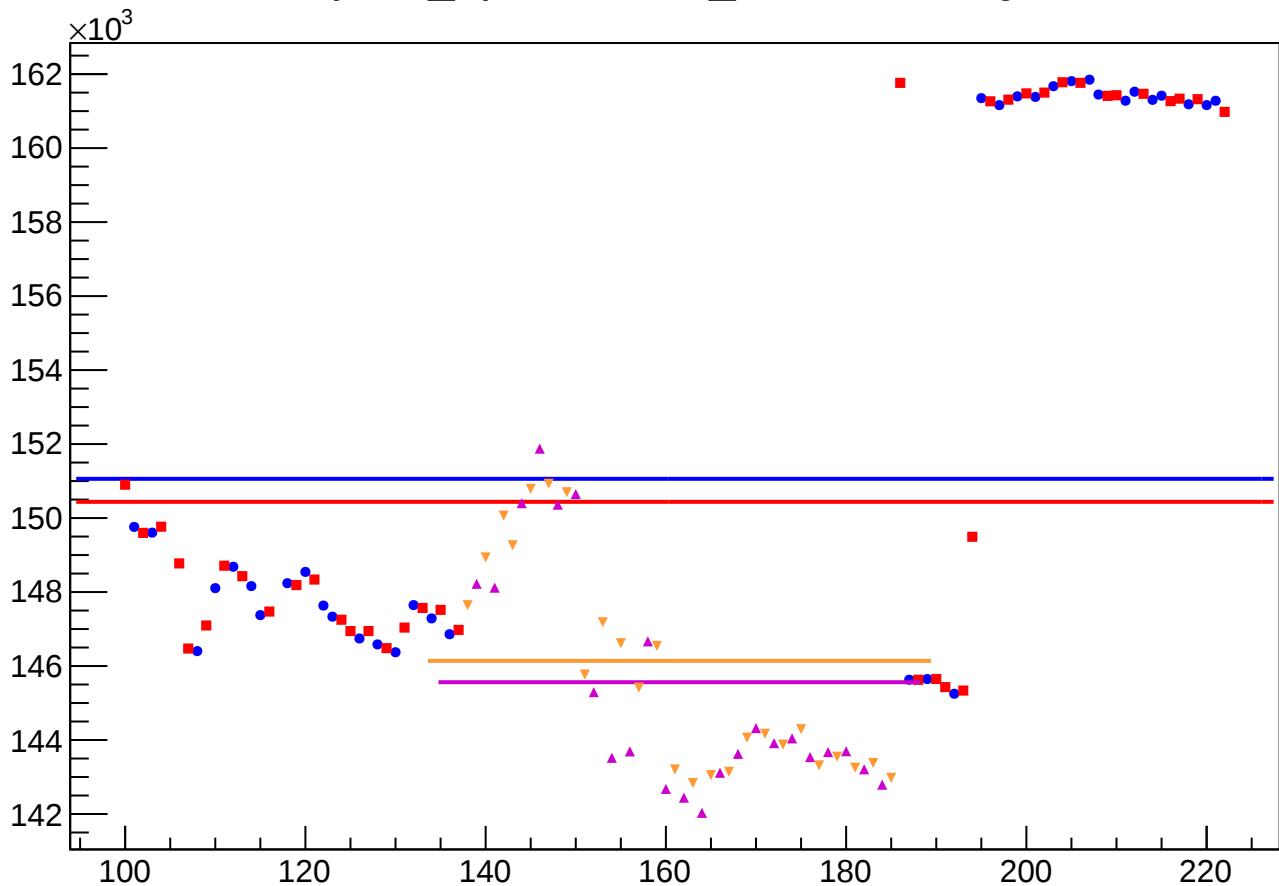
Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

+ sign 183.342 $\pm$ 0.023 χ^2 /NDF: 11415183.5/59

All: 181.360 $\pm$ 0.016 χ^2 /NDF: 23803168.4/12

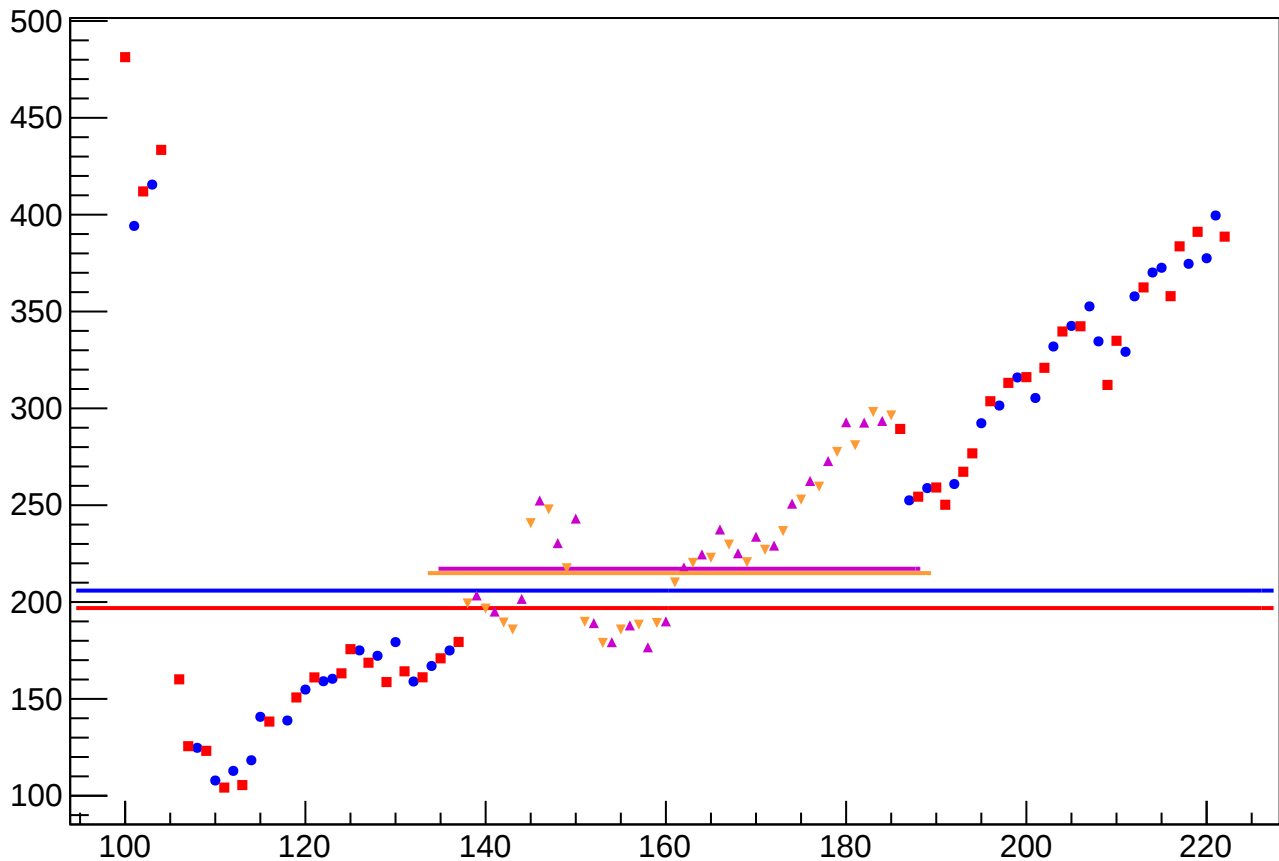
- sign 179.419 $\pm$ 0.023 χ^2 /NDF: 12373351.4/60

yield_bpm1i06WS_mean vs Slug



Right In: 151060.517 ± 0.052 χ^2/NDF : 14395632654.9/34
 Left Out: 146139.326 ± 0.051 χ^2/NDF : 2699546907.6/24
 Right Out: 150438.607 ± 0.048 χ^2/NDF : 13898850786.3/37
 Left In: 145562.386 ± 0.053 χ^2/NDF : 3054641996.0/22

yield_bpm1i06WS_rms vs Slug



Right In: 205.912 $\pm$ 0.036 χ^2 /NDF: 6403597.7/34

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 196.892 $\pm$ 0.034 χ^2 /NDF: 6979530.2/37

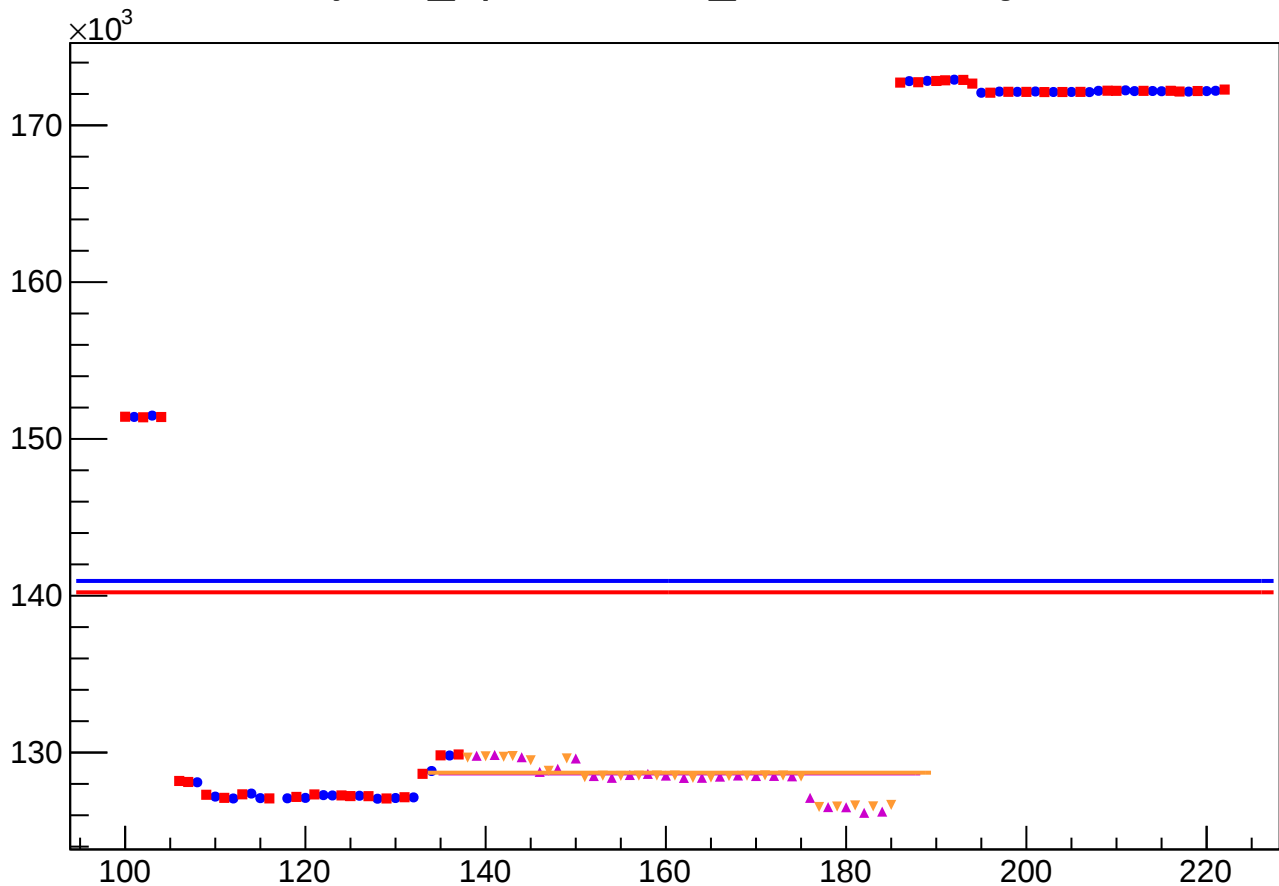
Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

+ sign 210.491 $\pm$ 0.026 χ^2 /NDF: 7163161.8/59

All: 208.279 $\pm$ 0.018 χ^2 /NDF: 15082006.9/12

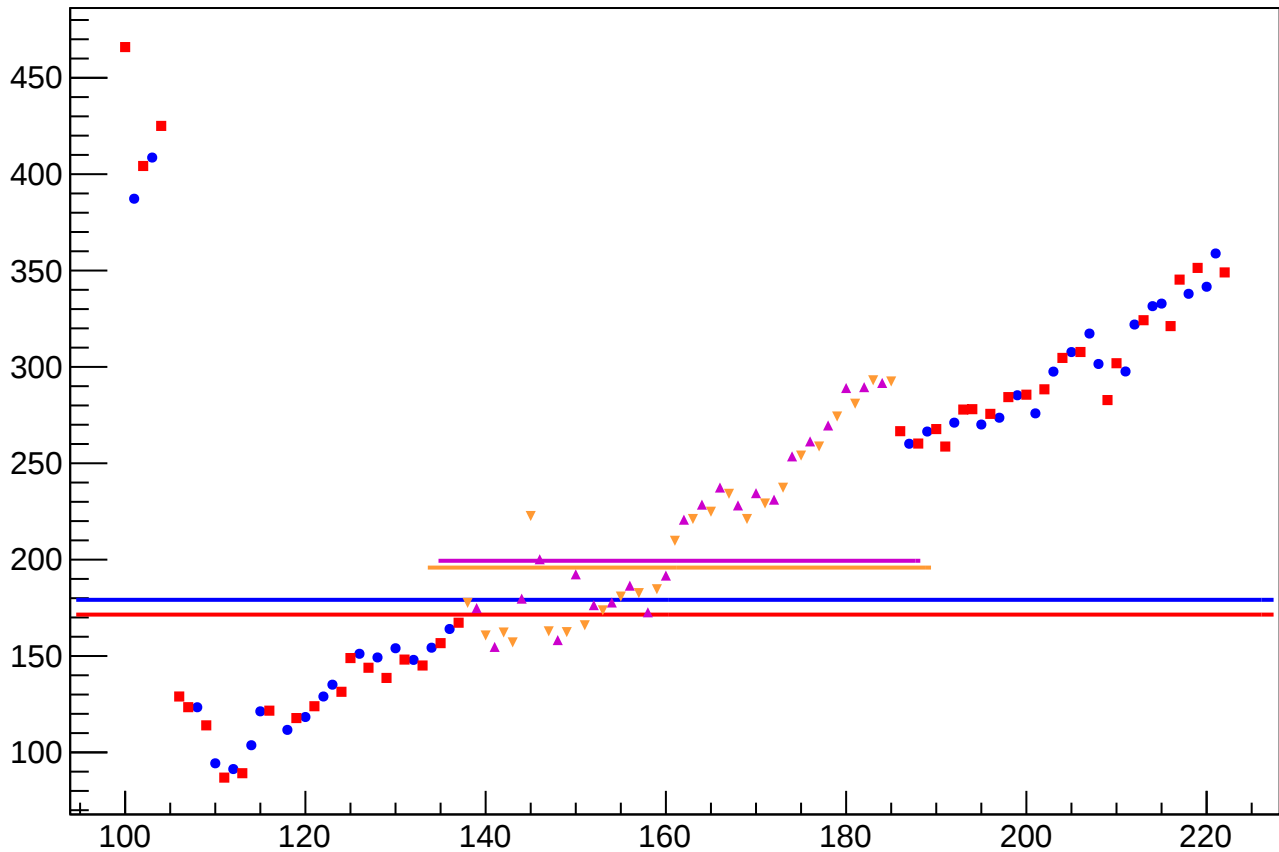
- sign 206.124 $\pm$ 0.025 χ^2 /NDF: 7904139.5/60

yield_bpm2i01WS_mean vs Slug



Right In: 140943.559 $\pm$ 0.046 χ^2 /NDF: 199069193405.8/34
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 140218.445 $\pm$ 0.043 χ^2 /NDF: 218744489402.5/37
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22

yield_bpm2i01WS_rms vs Slug



Right In: 179.152 $\pm$ 0.032 χ^2 /NDF: 7359824.4/34

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 171.485 $\pm$ 0.030 χ^2 /NDF: 8041111.0/37

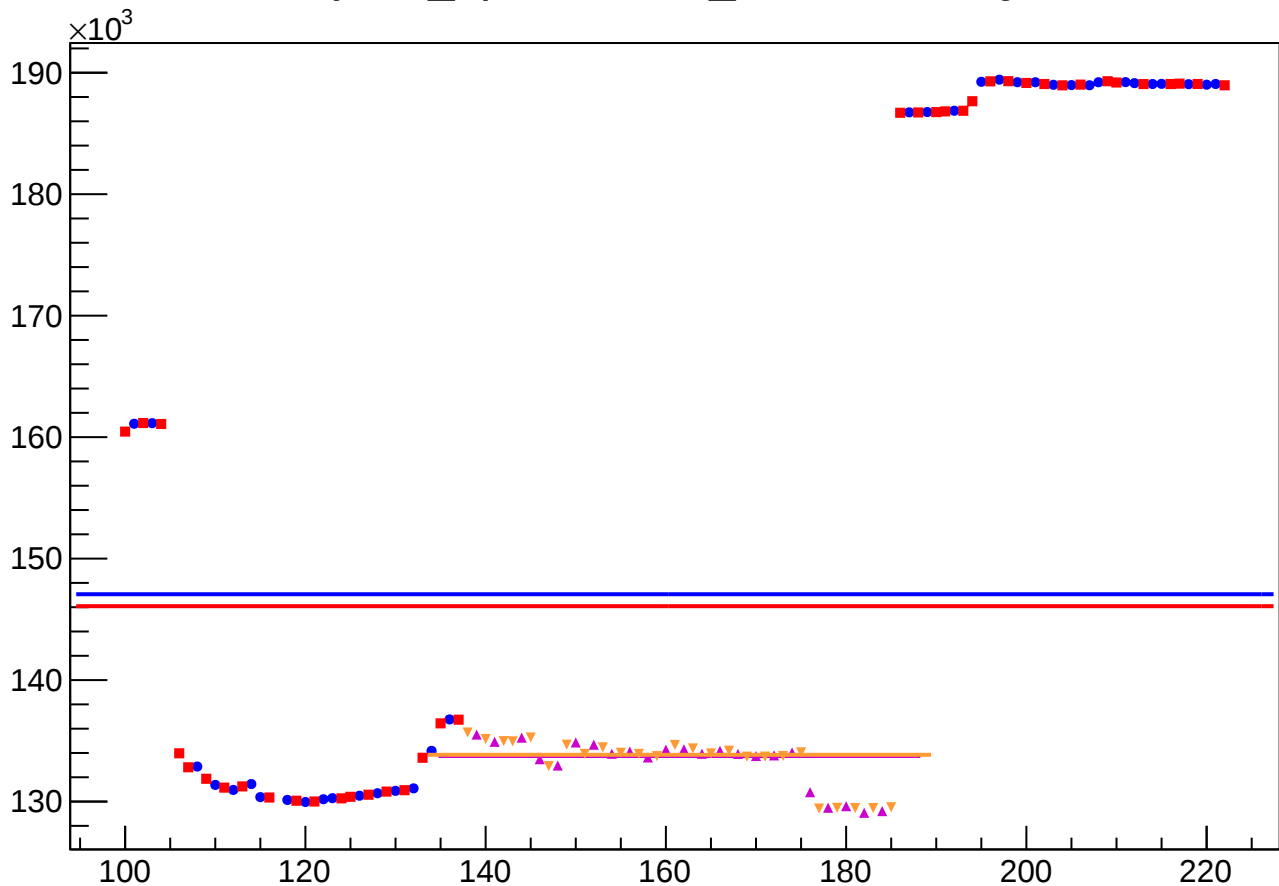
Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

+ sign 187.320 $\pm$ 0.023 χ^2 /NDF: 8804571.6/59

All: 185.435 $\pm$ 0.016 χ^2 /NDF: 18392742.0/12

- sign 183.593 $\pm$ 0.023 χ^2 /NDF: 9574972.0/60

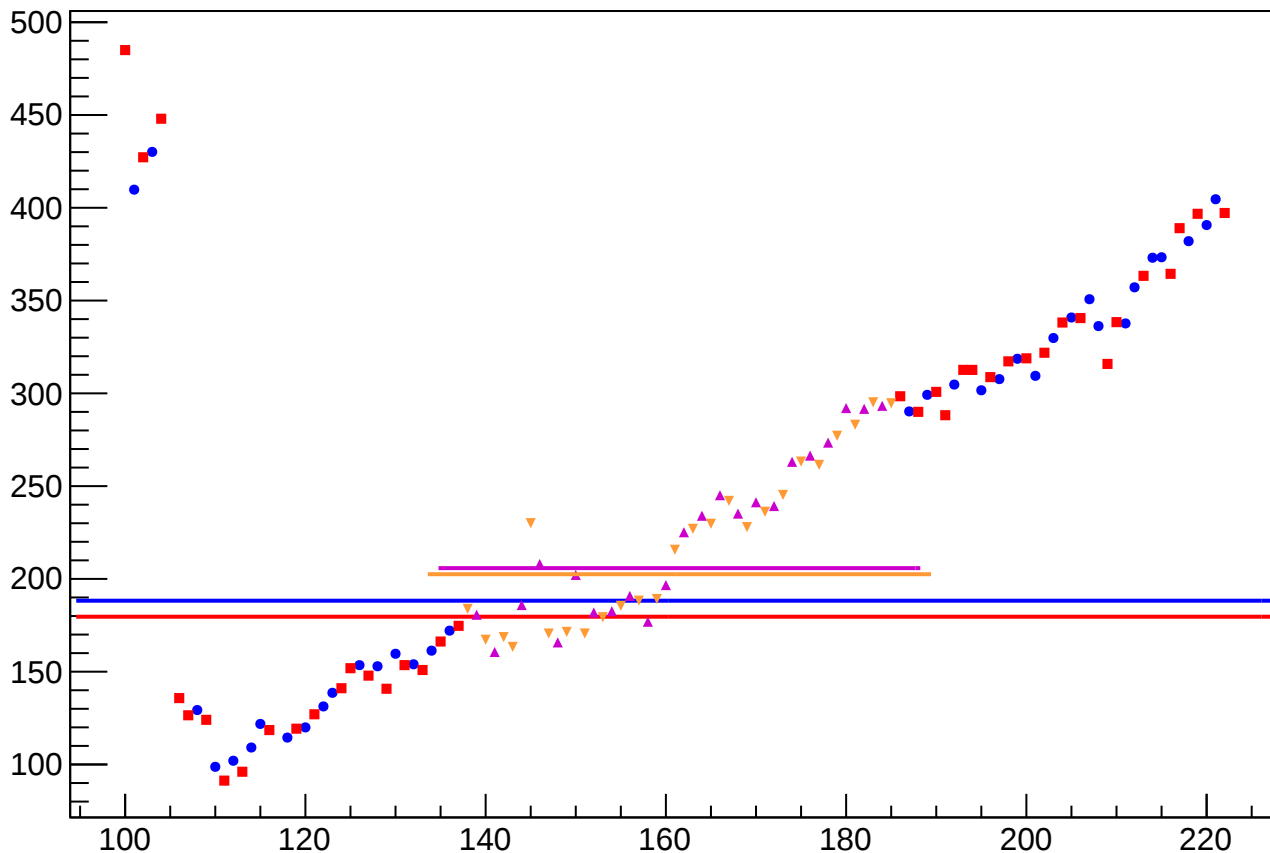
yield_bpm2i02WS_mean vs Slug



Right In: 147067.549 $\pm$ 0.049 χ^2 /NDF: 271813280925.4/34
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 146083.269 $\pm$ 0.046 χ^2 /NDF: 293094731283.3/37
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22

+ sign 140412.532 $\pm$ 0.034 χ^2 /NDF: 310192152386
 All: 140484.394 $\pm$ 0.024 χ^2 /NDF: 637141583
 - sign 140554.600 $\pm$ 0.034 χ^2 /NDF: 326940709373

yield_bpm2i02WS_rms vs Slug



Right In: 188.252 $\pm$ 0.034 χ^2 /NDF: 8165879.2/34

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 179.629 $\pm$ 0.032 χ^2 /NDF: 8932613.3/37

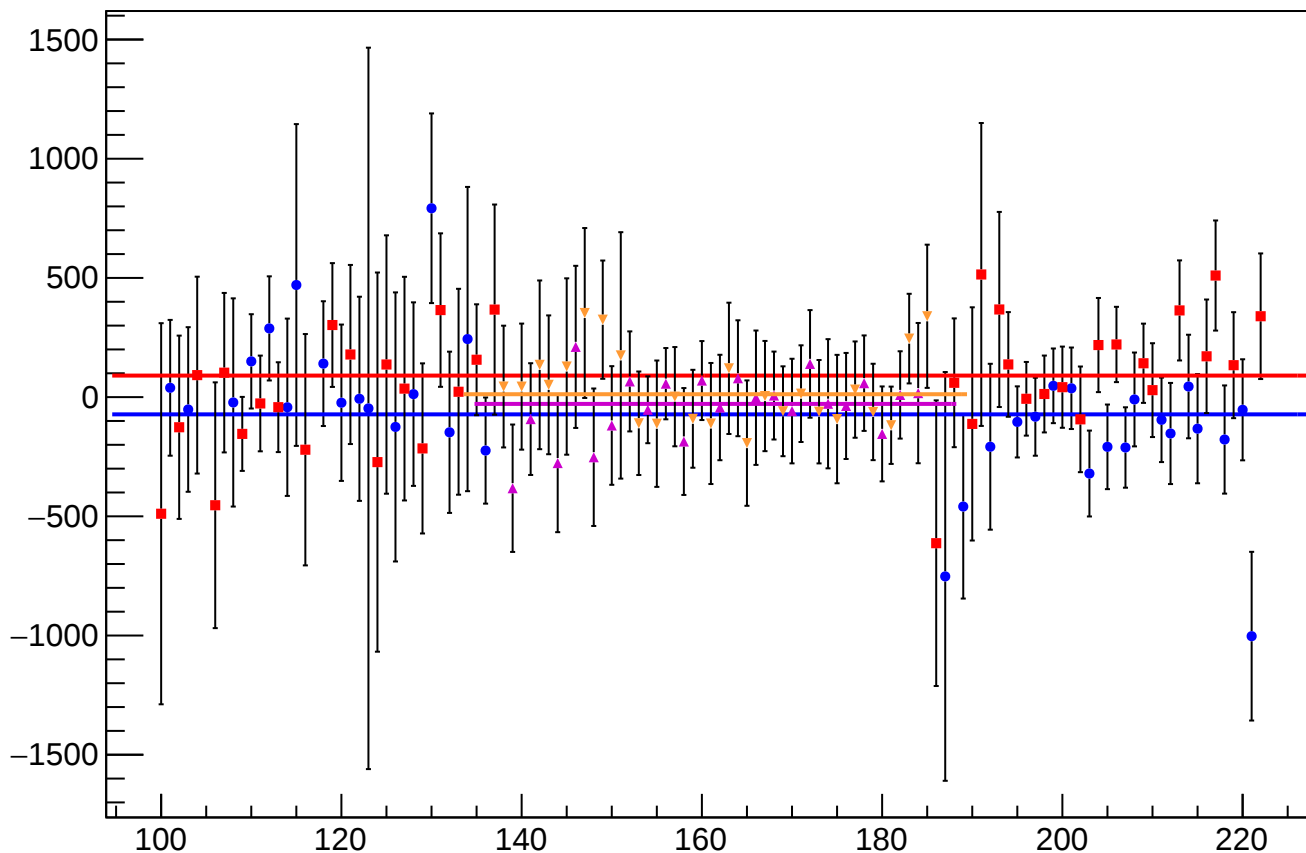
Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

+ sign 195.440 $\pm$ 0.024 χ^2 /NDF: 9464891.0/59

All: 193.378 $\pm$ 0.017 χ^2 /NDF: 19802575.7/12

- sign 191.364 $\pm$ 0.024 χ^2 /NDF: 10323327.1/60

asym_bcm_an_ds_mean vs Slug



Right In: -72.280 ± 40.806 χ^2/NDF : 24.8/34

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: 90.387 ± 40.484 χ^2/NDF : 19.9/37

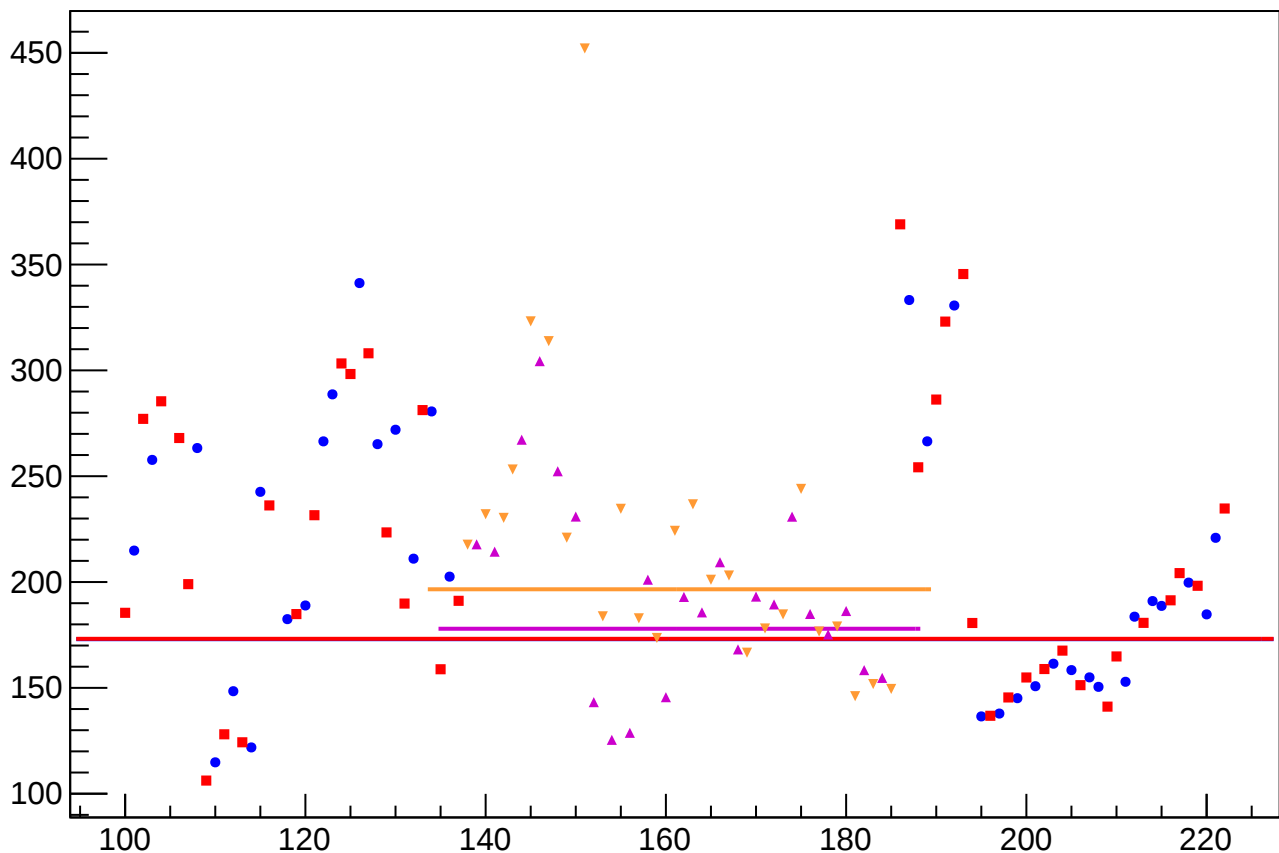
Left In: -28.452 ± 44.688 χ^2/NDF : 6.7/22

+ sign -36.443 ± 30.961 χ^2/NDF : 35.2/59

All: 1.339 ± 21.546 χ^2/NDF : 68.5/120

- sign 36.819 ± 30.003 χ^2/NDF : 30.4/60

asym_bcm_an_ds_rms vs Slug



Right In: 172.996 $\pm$ 0.029 χ^2 /NDF: 2256810.1/34

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 173.177 $\pm$ 0.029 χ^2 /NDF: 3047849.1/37

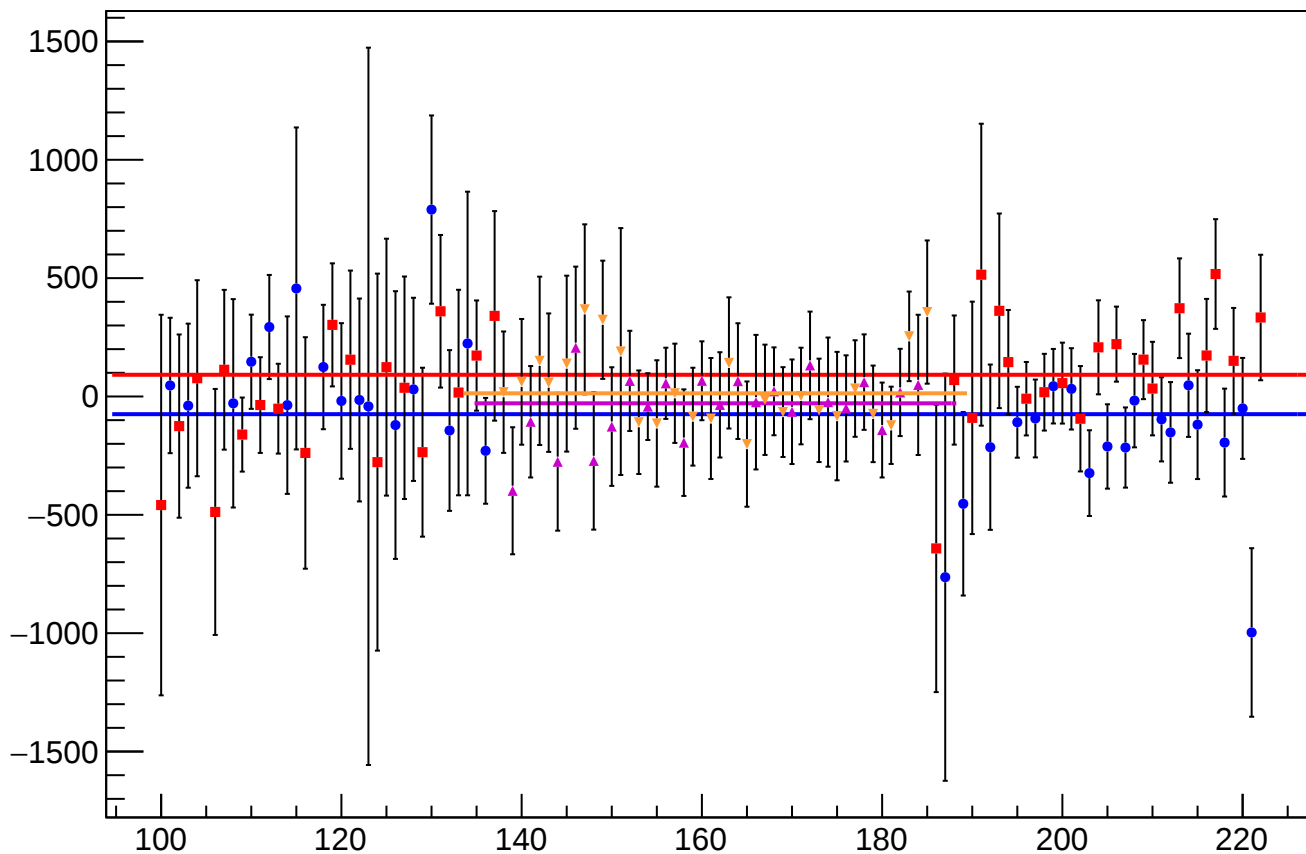
Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

+ sign 183.001 $\pm$ 0.022 χ^2 /NDF: 4318909.4/59

All: 179.040 $\pm$ 0.015 χ^2 /NDF: 9048448.0/120

- sign 175.321 $\pm$ 0.021 χ^2 /NDF: 4666070.4/60

asym_bcm_an_ds3_mean vs Slug



Right In: -74.738 $\pm$ 40.993 χ^2/NDF : 24.5/34

Left Out: 13.395 $\pm$ 47.862 χ^2/NDF : 9.0/24

Right Out: 91.747 $\pm$ 40.681 χ^2/NDF : 20.3/37

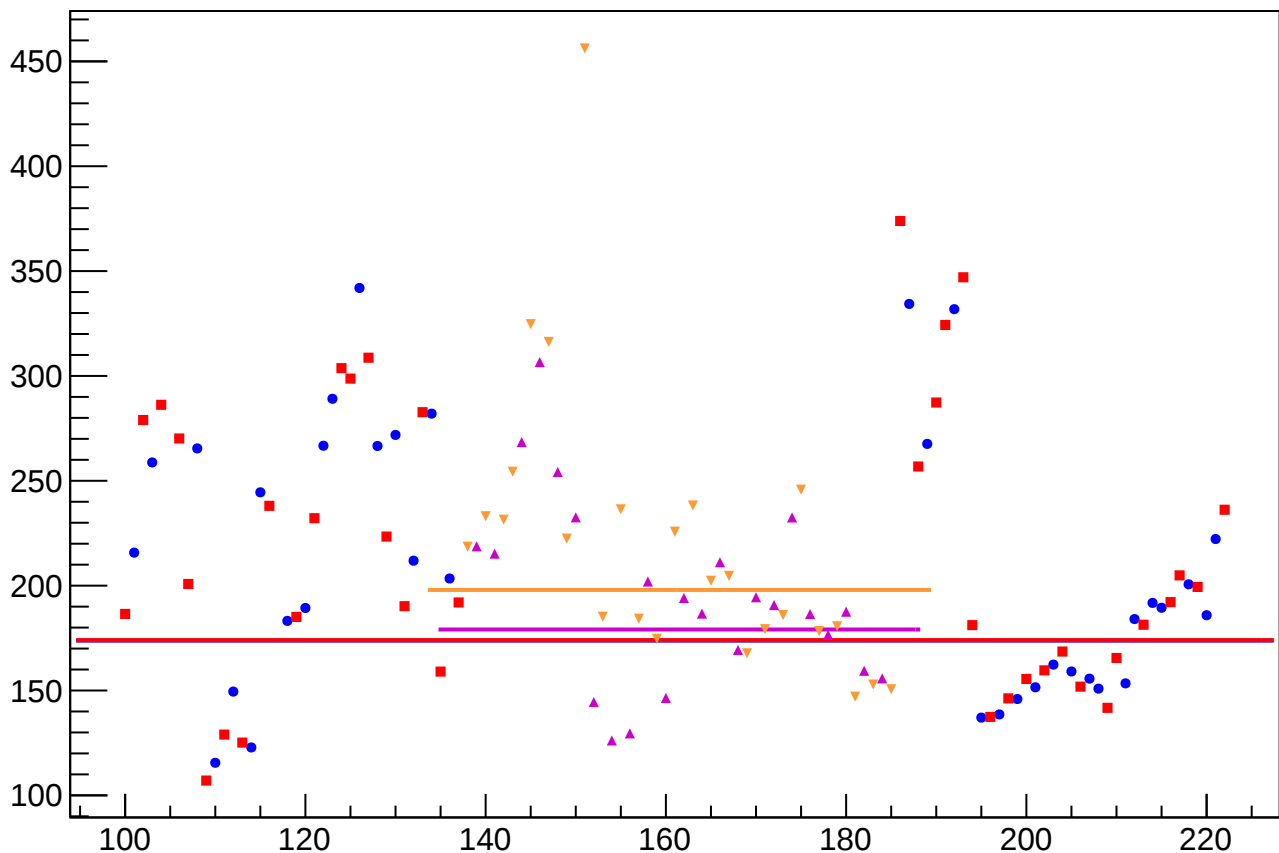
Left In: -28.806 $\pm$ 44.980 χ^2/NDF : 6.8/22

+ sign -37.445 $\pm$ 31.134 χ^2/NDF : 35.5/59

All: 1.208 $\pm$ 21.667 χ^2/NDF : 69.6/120

- sign 37.506 $\pm$ 30.171 χ^2/NDF : 31.1/60

asym_bcm_an_ds3_rms vs Slug



Right In: 173.808 $\pm$ 0.029 χ^2/NDF : 2248783.4/34

Left Out: 197.953 $\pm$ 0.034 χ^2/NDF : 1774524.3/24

Right Out: 174.025 $\pm$ 0.029 χ^2/NDF : 3043991.3/37

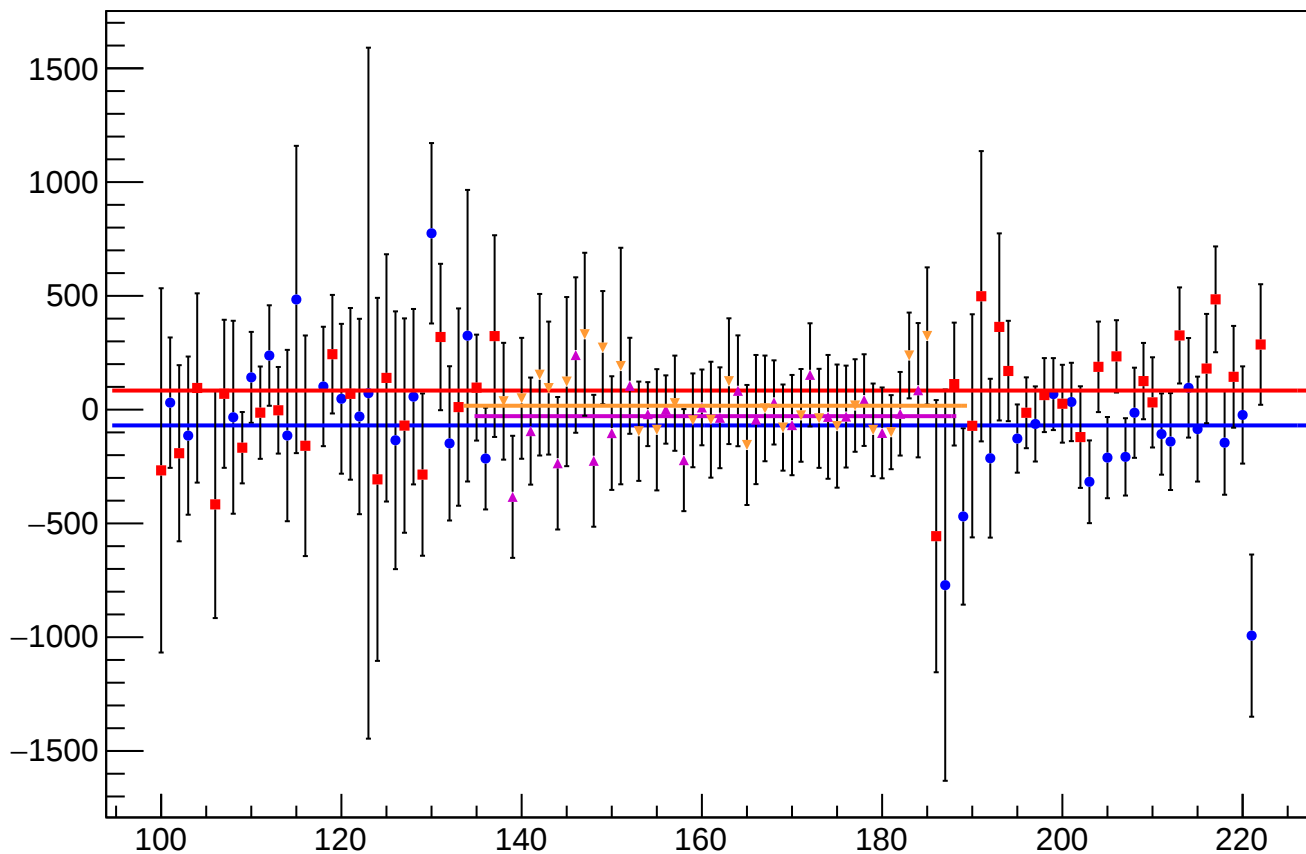
Left In: 179.090 $\pm$ 0.032 χ^2/NDF : 1605113.3/22

+ sign 184.025 $\pm$ 0.022 χ^2/NDF : 4316894.1/59

All: 180.043 $\pm$ 0.015 χ^2/NDF : 9043384.0/120

- sign 176.304 $\pm$ 0.021 χ^2/NDF : 4663053.5/60

asym_bcm_an_us_mean vs Slug



Right In: -69.358 ± 41.076 χ^2/NDF : 24.0/34

Left Out: 17.142 ± 47.738 χ^2/NDF : 7.1/24

Right Out: 83.880 ± 40.715 χ^2/NDF : 17.7/37

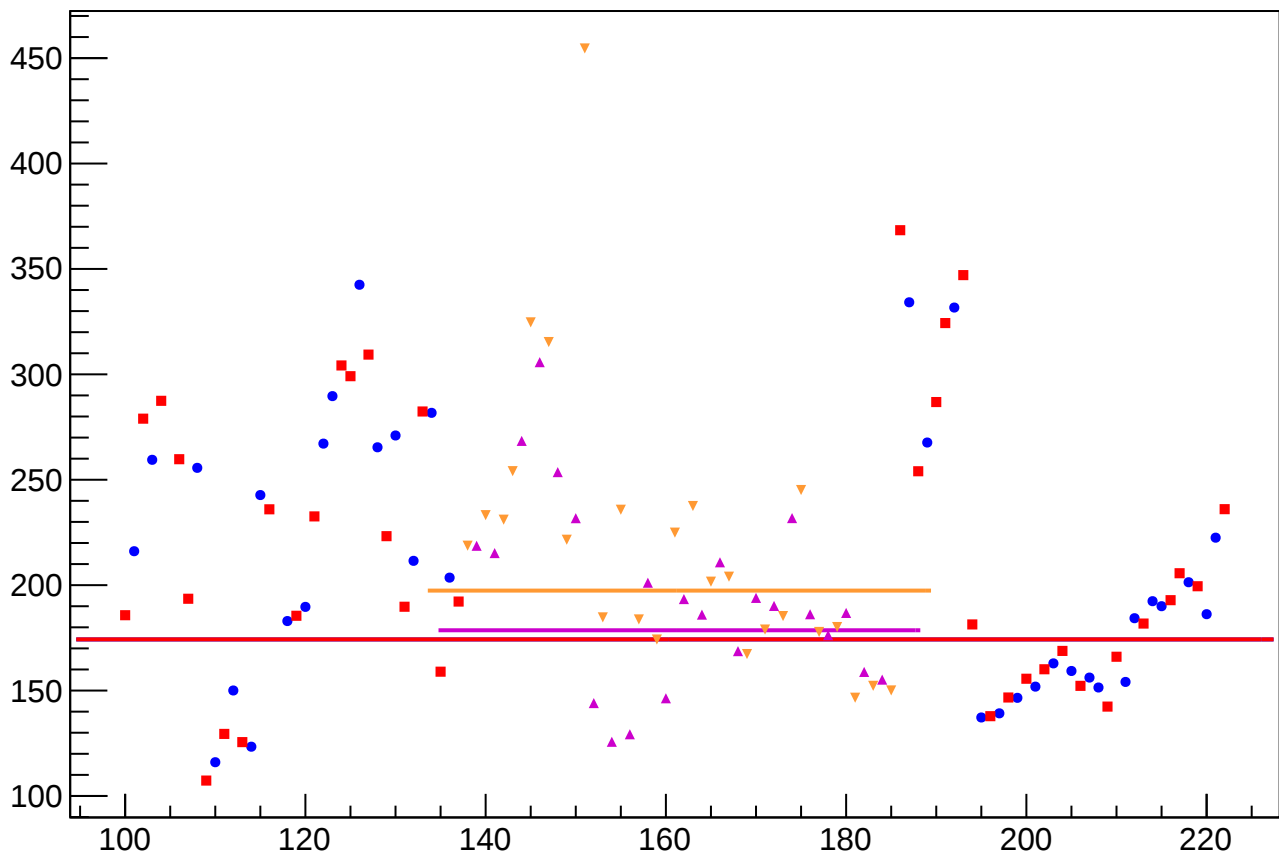
Left In: -28.655 ± 44.859 χ^2/NDF : 6.1/22

+ sign -32.560 ± 31.136 χ^2/NDF : 32.9/59

All: 1.301 ± 21.659 χ^2/NDF : 62.5/120

- sign 33.049 ± 30.149 χ^2/NDF : 27.3/60

asym_bcm_an_us_rms vs Slug



Right In: 174.240 $\pm$ 0.029 χ^2 /NDF: 2216459.8/34

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 174.282 $\pm$ 0.029 χ^2 /NDF: 2996233.0/37

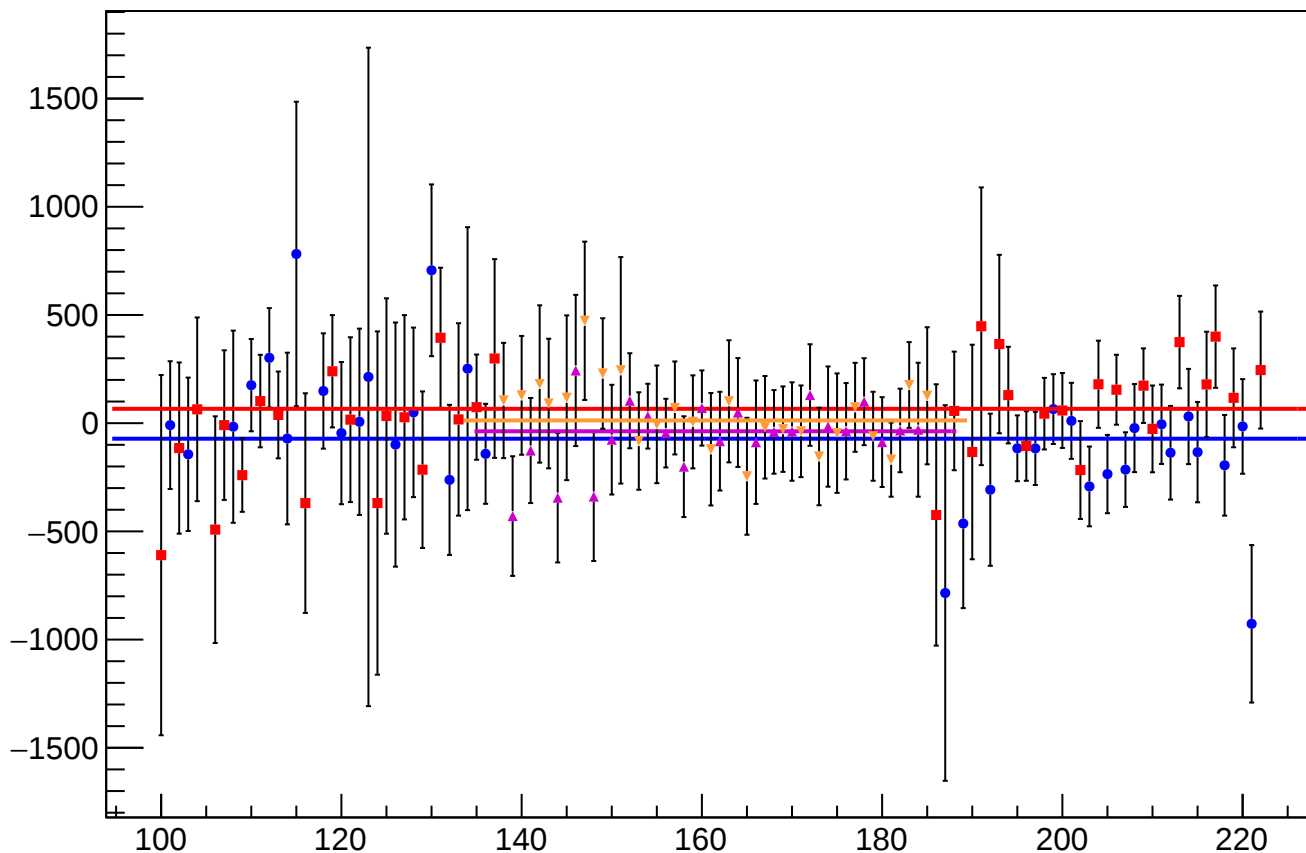
Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

+ sign 184.102 $\pm$ 0.022 χ^2 /NDF: 4267719.4/59

All: 180.041 $\pm$ 0.015 χ^2 /NDF: 8949036.3/120

- sign 176.233 $\pm$ 0.021 χ^2 /NDF: 4615396.5/60

asym_bcm_dg_us_mean vs Slug



Right In: -71.708 ± 41.945 χ^2/NDF : 23.5/34

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: 66.410 ± 41.751 χ^2/NDF : 19.3/37

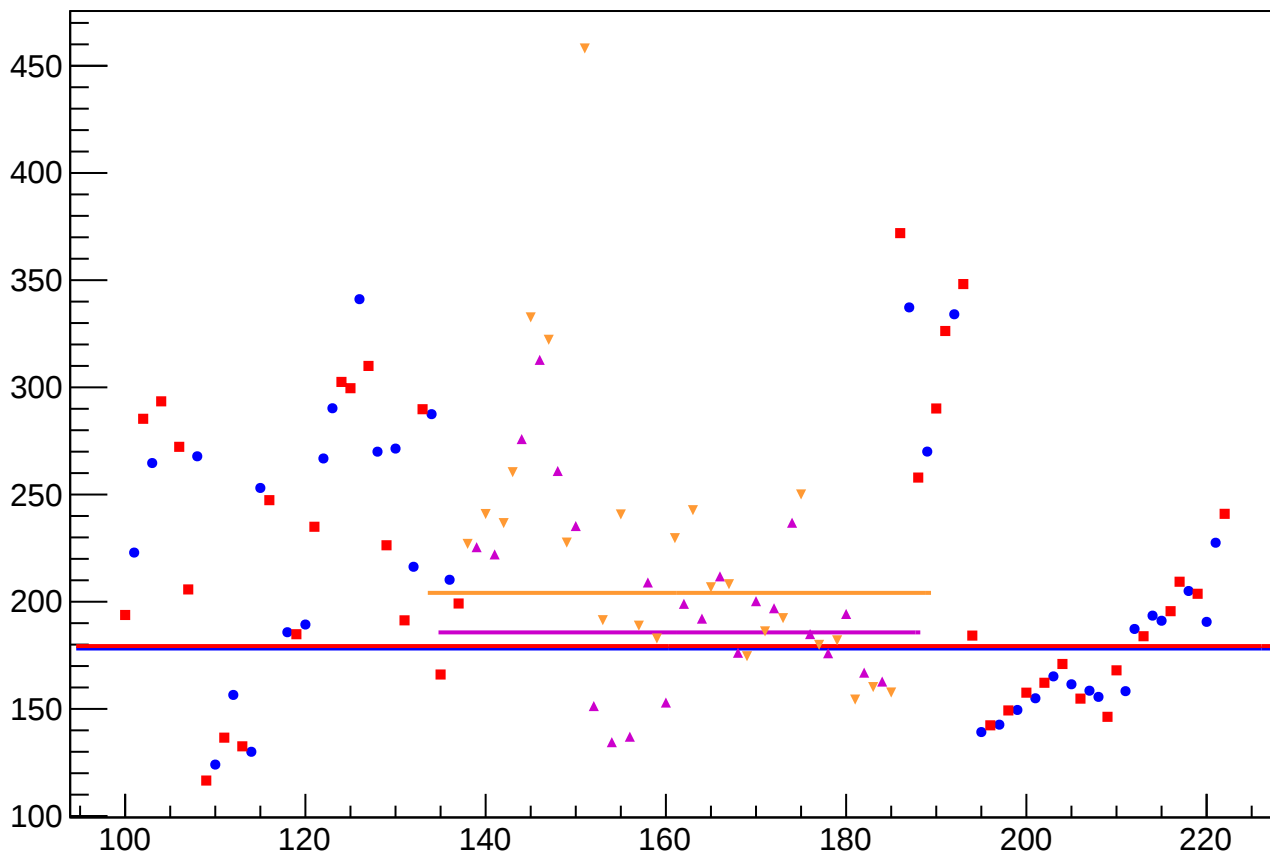
Left In: -37.460 ± 46.479 χ^2/NDF : 7.6/22

+ sign -36.244 ± 31.931 χ^2/NDF : 32.7/59

All: -7.332 ± 22.264 χ^2/NDF : 64.0/120

- sign 20.025 ± 31.060 χ^2/NDF : 29.7/60

asym_bcm_dg_us_rms vs Slug



Right In: 178.178 $\pm$ 0.030 χ^2 /NDF: 2130260.3/34

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 179.315 $\pm$ 0.030 χ^2 /NDF: 2797718.8/37

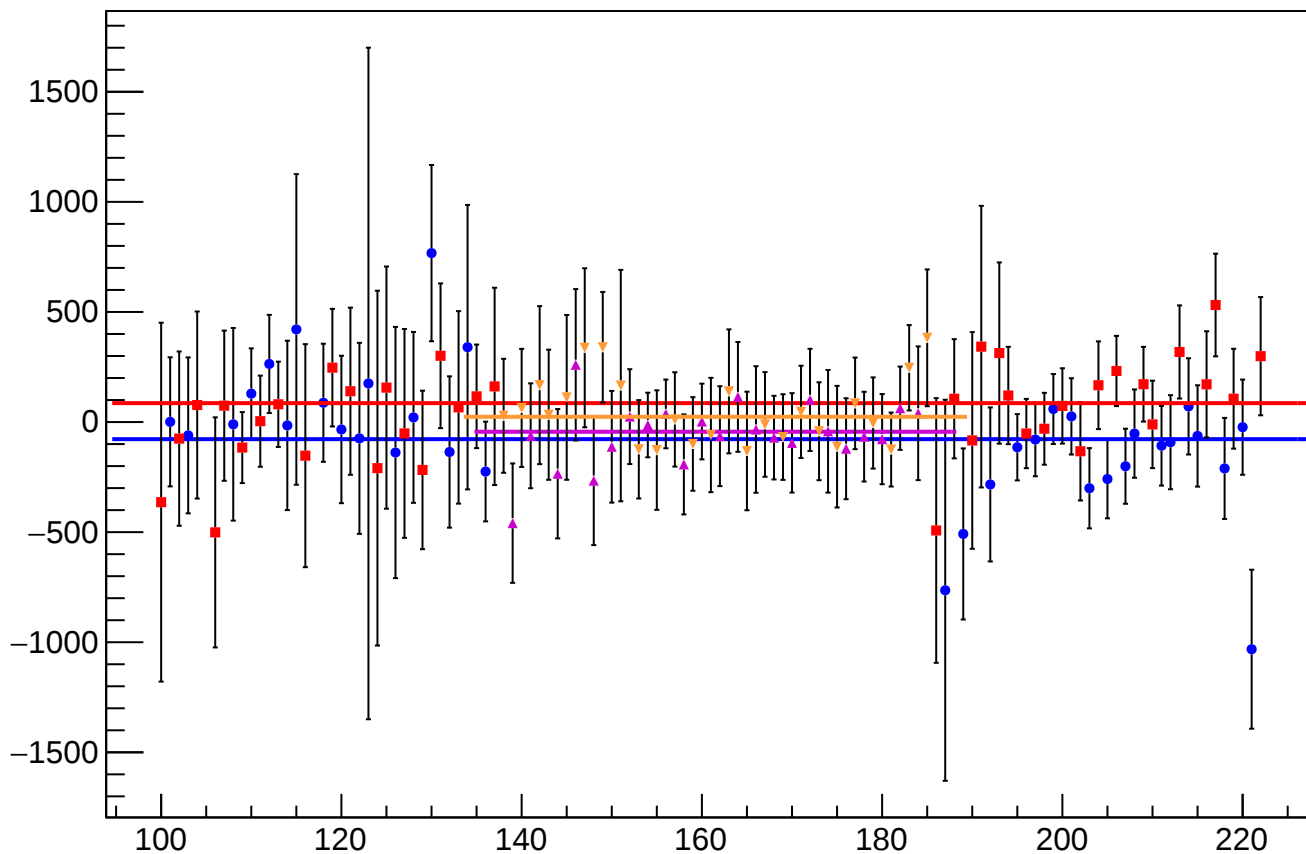
Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

+ sign 189.091 $\pm$ 0.023 χ^2 /NDF: 4124522.3/59

All: 185.532 $\pm$ 0.016 χ^2 /NDF: 8439224.4/120

- sign 182.164 $\pm$ 0.022 χ^2 /NDF: 4266331.1/60

asym_bcm_dg_ds_mean vs Slug



Right In: -77.646 ± 41.434 χ^2/NDF : 24.1/34

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: 85.902 ± 41.135 χ^2/NDF : 16.4/37

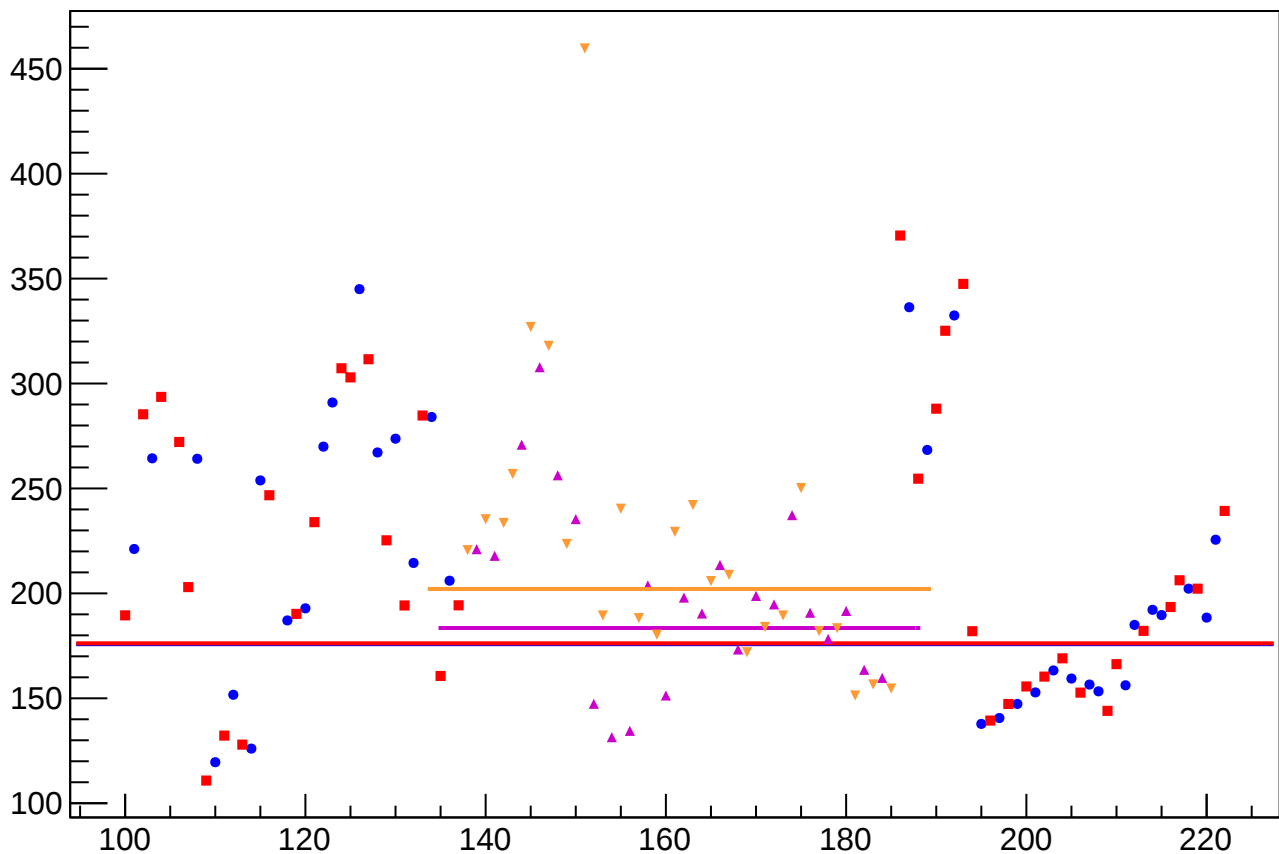
Left In: -43.978 ± 45.981 χ^2/NDF : 6.5/22

+ sign -35.115 ± 31.580 χ^2/NDF : 35.1/59

All: -2.538 ± 21.997 χ^2/NDF : 64.5/120

- sign 28.164 ± 30.657 χ^2/NDF : 27.4/60

asym_bcm_dg_ds_rms vs Slug



Right In: 175.789 $\pm$ 0.029 χ^2 /NDF: 2216860.5/34

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 176.207 $\pm$ 0.029 χ^2 /NDF: 2972218.6/37

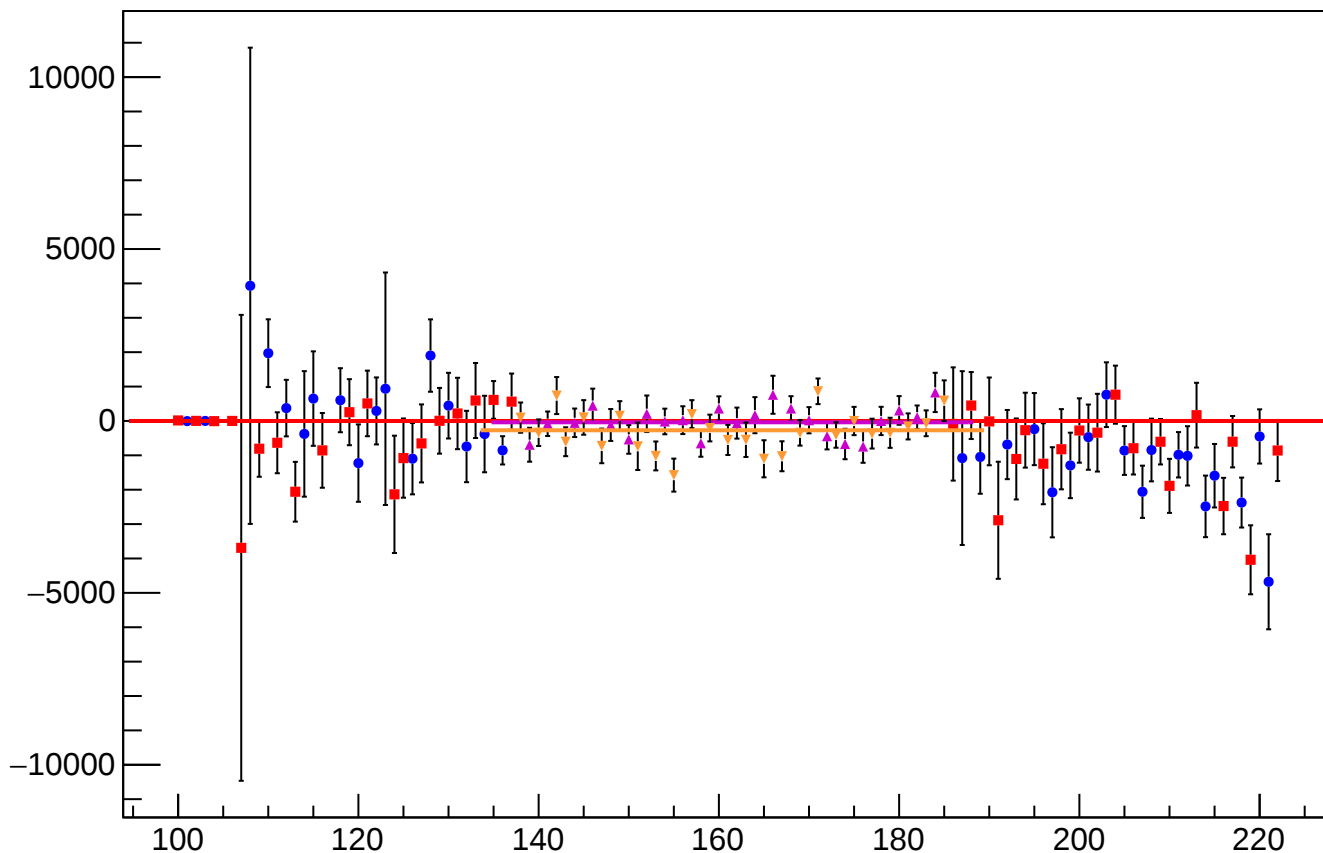
Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

+ sign 186.807 $\pm$ 0.022 χ^2 /NDF: 4247130.2/59

All: 183.019 $\pm$ 0.016 χ^2 /NDF: 8786575.2/120

- sign 179.448 $\pm$ 0.022 χ^2 /NDF: 4483535.1/60

asym_cav4bQ_mean vs Slug



Right In: -1.665 ± 2.251 χ^2/NDF : 70.7/34

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: -0.806 ± 2.111 χ^2/NDF : 60.4/37

Left In: -39.078 ± 87.769 χ^2/NDF : 20.3/22

+ sign -1.846 ± 2.251 χ^2/NDF : 118.4/59

All: -1.304 ± 1.539 χ^2/NDF : 199.3/120

- sign -0.828 ± 2.110 χ^2/NDF : 80.8/60

asym_cav4bQ_rms vs Slug



Right In: 2.539 $\pm$ 0.002 χ^2 /NDF: 35792778.9/34

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.509 $\pm$ 0.001 χ^2 /NDF: 37191021.0/37

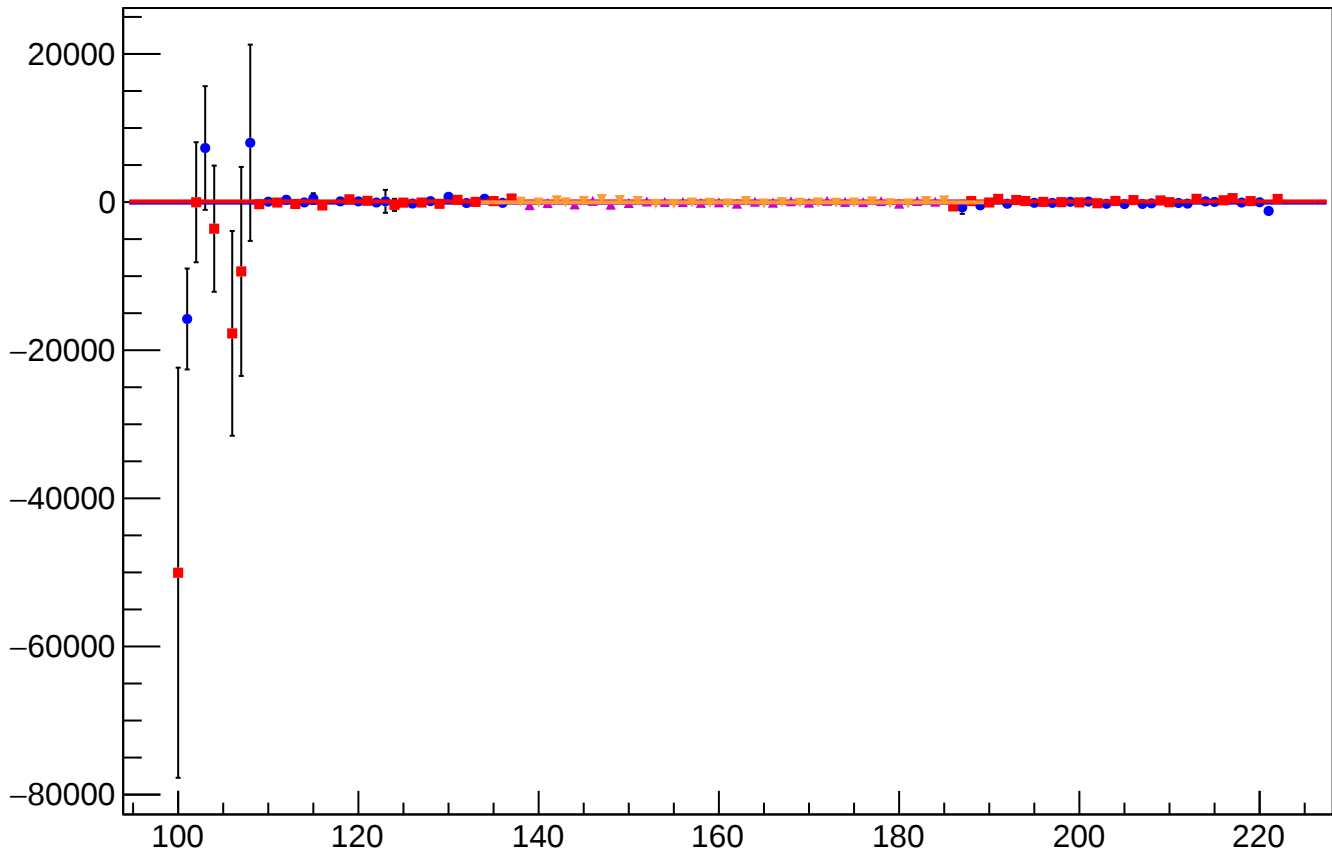
Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

+ sign 2.784 $\pm$ 0.002 χ^2 /NDF: 71786626.6/59

All: 2.748 $\pm$ 0.001 χ^2 /NDF: 142632690.5/120

- sign 2.716 $\pm$ 0.001 χ^2 /NDF: 70845093.0/60

asym_cav4cQ_mean vs Slug



Right In: -72.542 ± 44.975 χ^2/NDF : 30.4/34

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: 90.256 ± 45.304 χ^2/NDF : 29.7/37

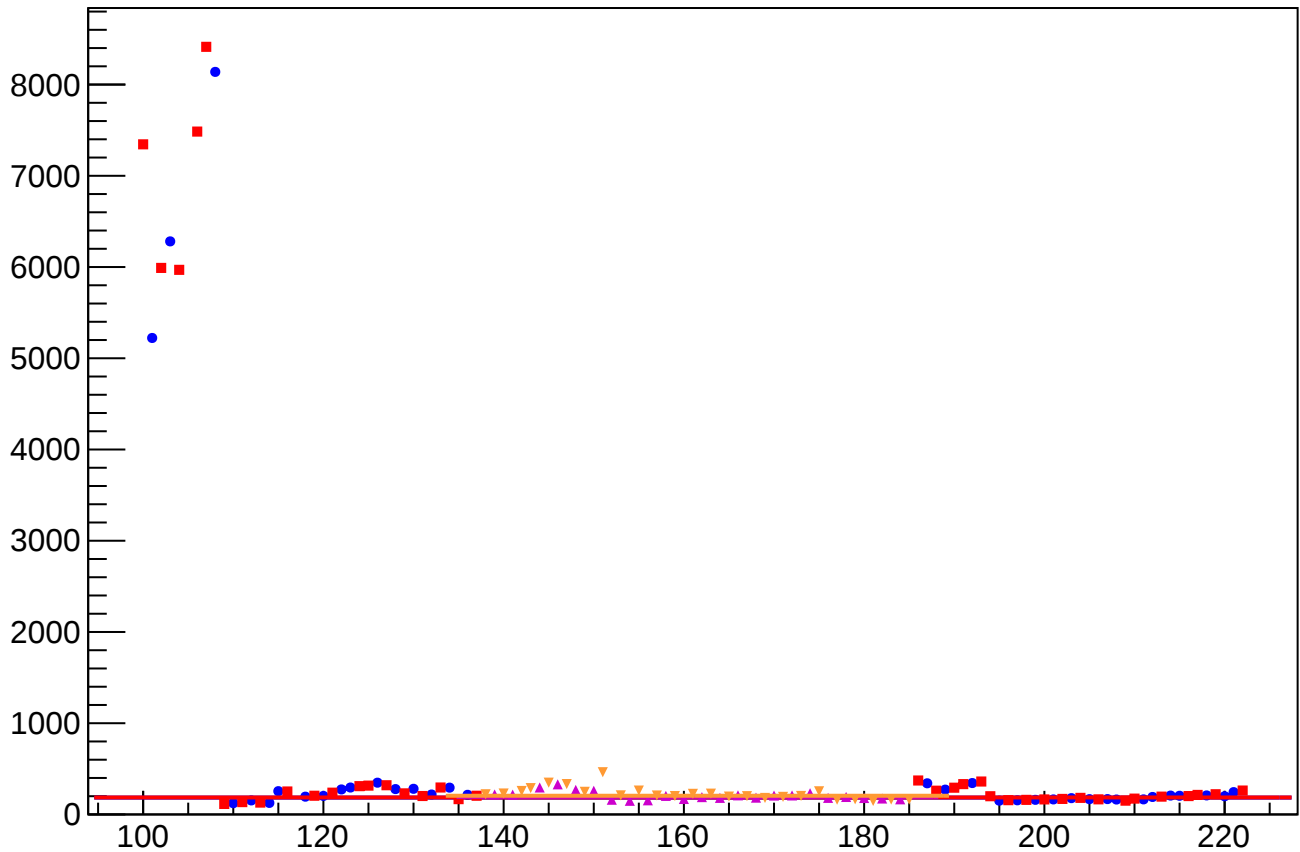
Left In: -28.205 ± 48.167 χ^2/NDF : 9.2/22

+ sign -56.971 ± 33.326 χ^2/NDF : 40.0/59

All: -10.710 ± 23.449 χ^2/NDF : 85.9/120

- sign 34.651 ± 33.000 χ^2/NDF : 42.1/60

asym_cav4cQ_rms vs Slug



Right In: 184.471 $\pm$ 0.032 χ^2 /NDF: 4663200.7/34

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 186.152 $\pm$ 0.032 χ^2 /NDF: 5655393.4/37

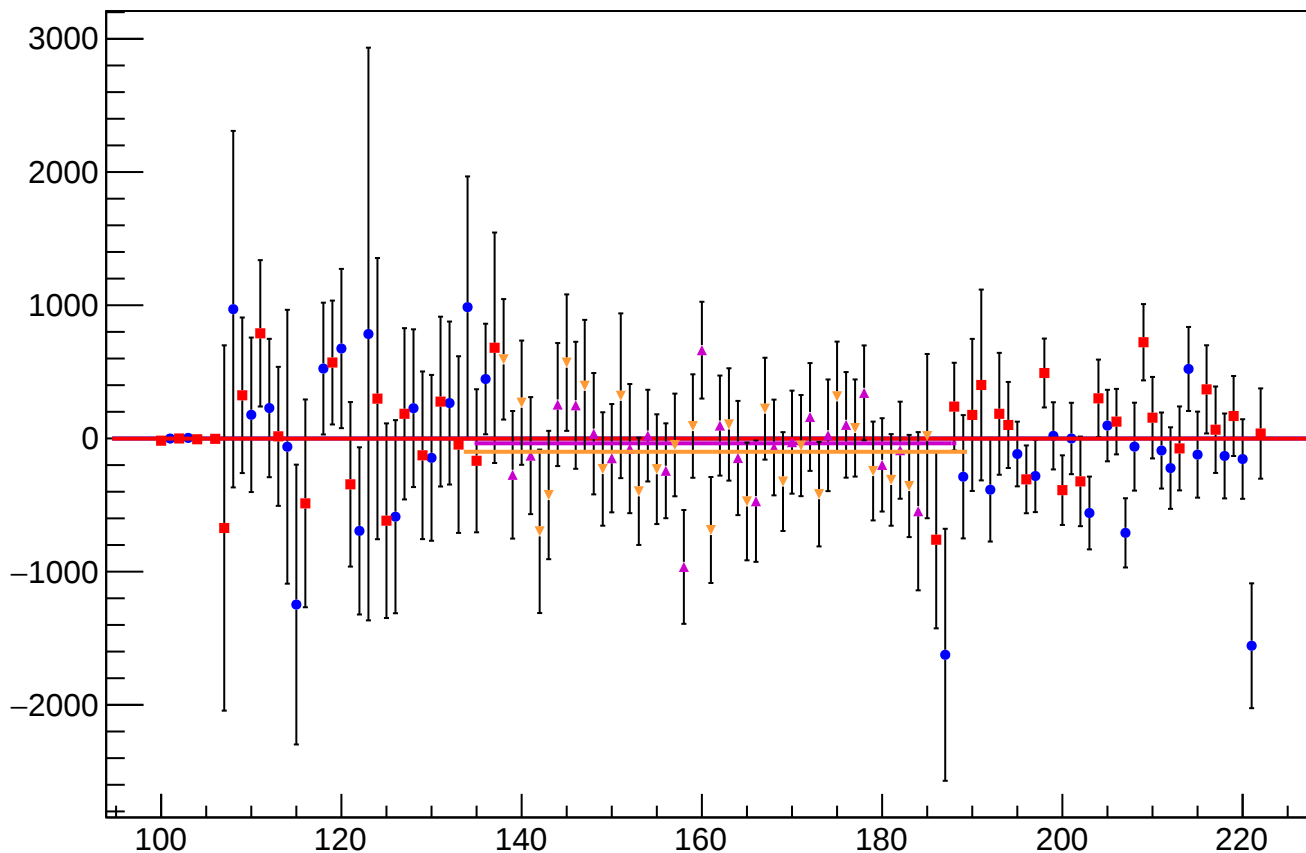
Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

+ sign 193.741 $\pm$ 0.024 χ^2 /NDF: 6807632.9/59

All: 191.628 $\pm$ 0.017 χ^2 /NDF: 13675171.4/12

- sign 189.557 $\pm$ 0.023 χ^2 /NDF: 6851621.0/60

asym_cav4dQ_mean vs Slug



Right In: -0.254 ± 1.736 χ^2/NDF : 42.4/34

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: -1.271 ± 1.622 χ^2/NDF : 29.7/37

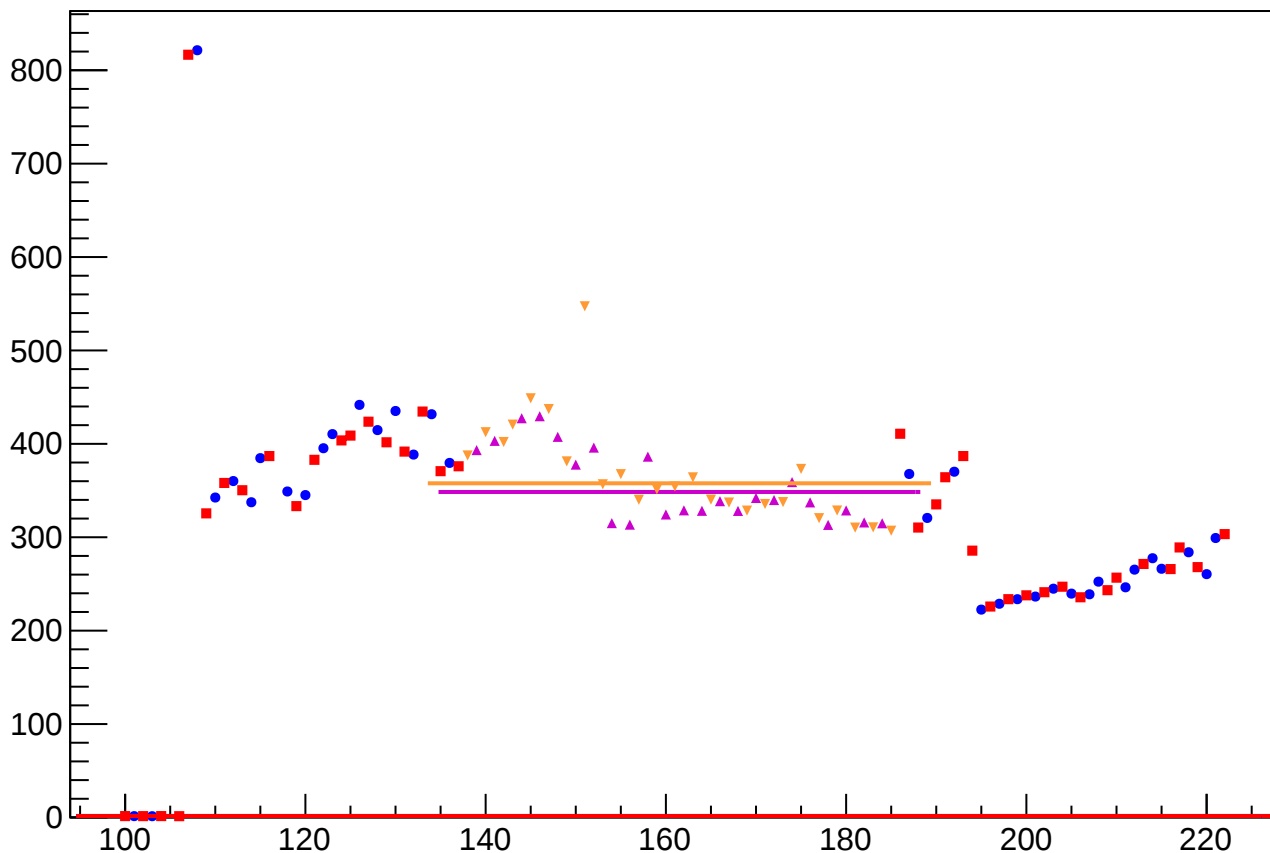
Left In: -36.497 ± 84.675 χ^2/NDF : 13.5/22

+ sign -0.296 ± 1.736 χ^2/NDF : 59.5/59

All: -0.824 ± 1.185 χ^2/NDF : 103.2/120

- sign -1.284 ± 1.622 χ^2/NDF : 43.4/60

asym_cav4dQ_rms vs Slug



Right In: 1.599+/-0.001 χ^2/NDF : 35955549.2/34

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.579+/-0.001 χ^2/NDF : 36873177.2/37

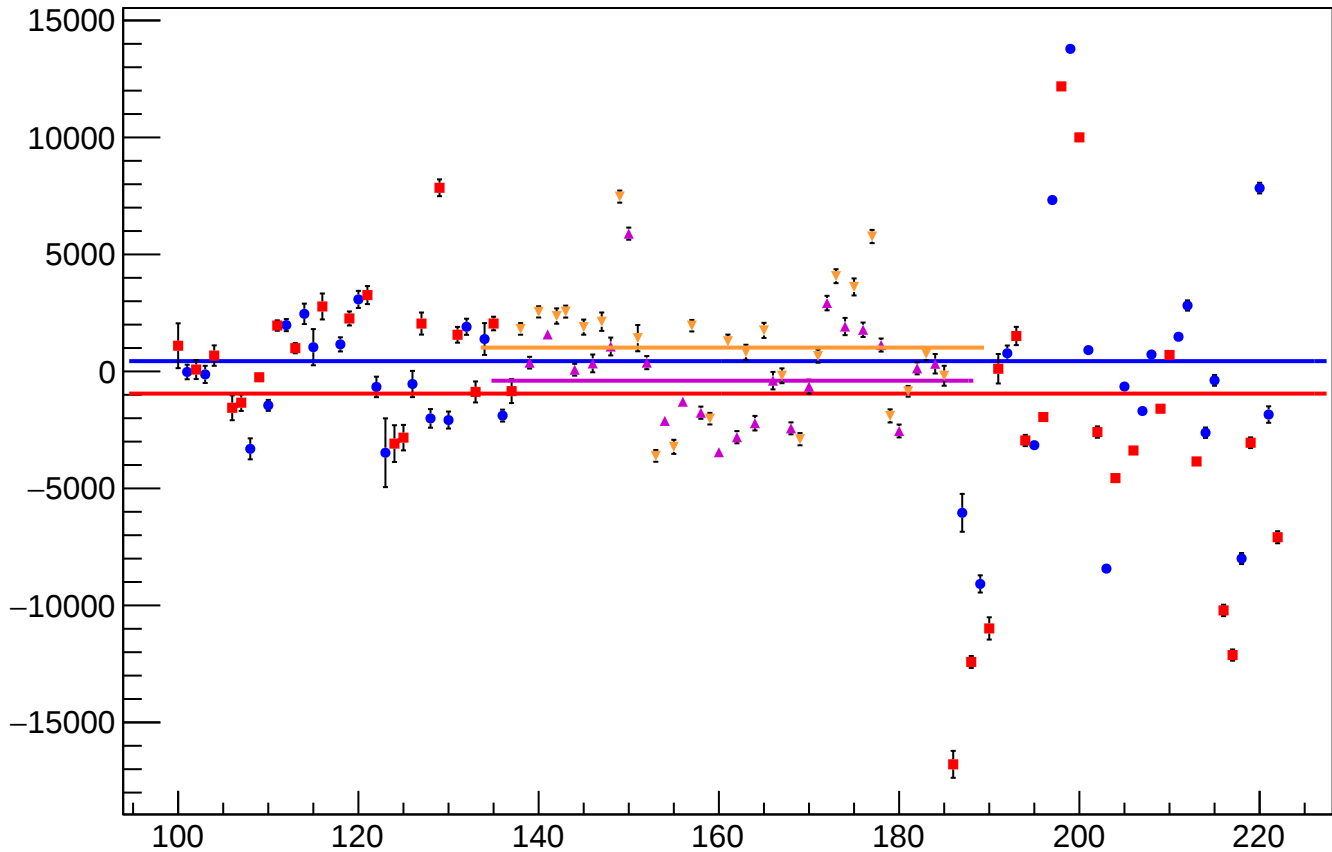
Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

+ sign 1.751+/-0.001 χ^2/NDF : 72283137.6/59

All: 1.727+/-0.001 χ^2/NDF : 143070321.4/120

- sign 1.706+/-0.001 χ^2/NDF : 70786469.9/60

asym_bcm0l02_mean vs Slug



Right In: 439.672 $\pm$ 44.482 χ^2 /NDF: 13556.4/34

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: -947.913 $\pm$ 43.924 χ^2 /NDF: 18491.6/37

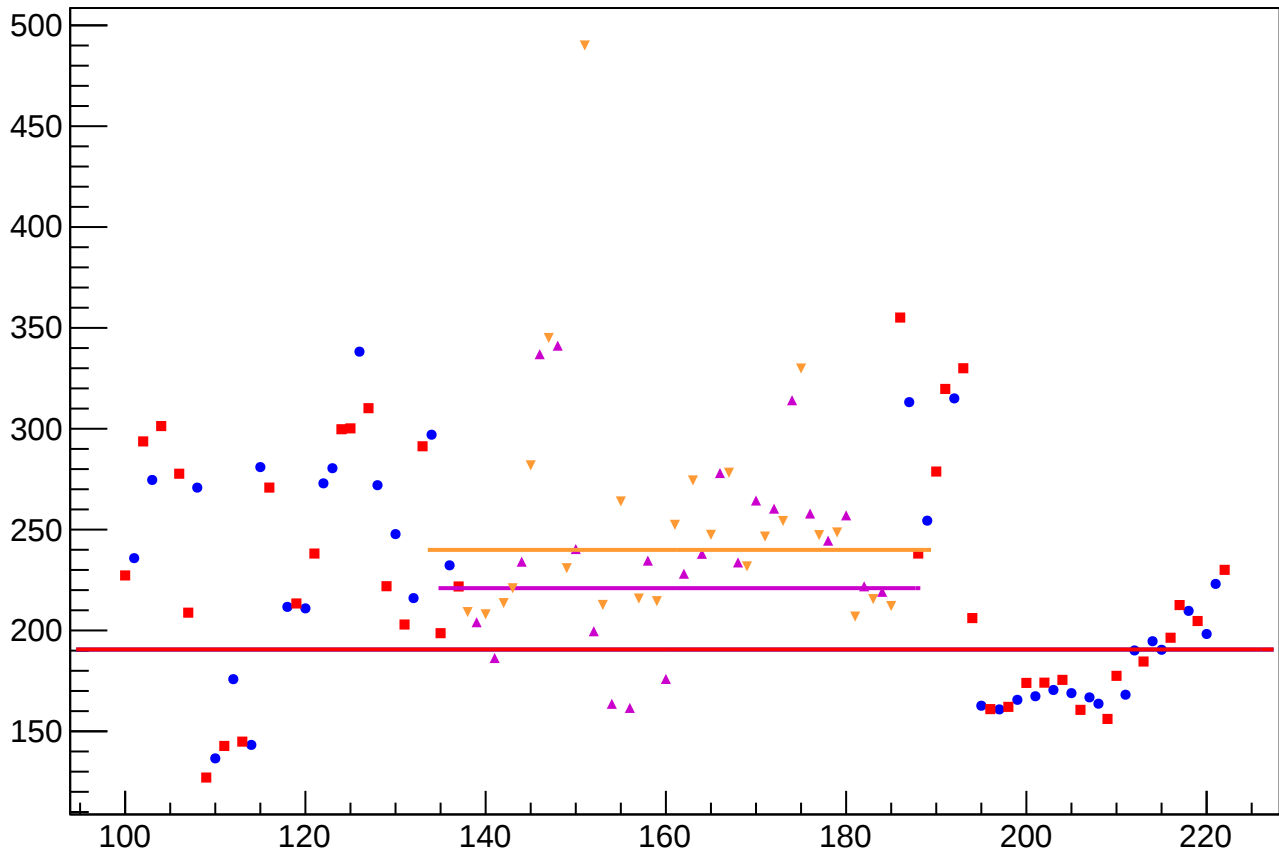
Left In: -396.609 $\pm$ 55.090 χ^2 /NDF:1581.0/22

+ sign 657.018 $\pm$ 35.160 χ^2 /NDF: 15930.1/59

All: -54.653 $\pm$ 24.568 χ^2 /NDF: 36864.6/120

- sign -733.653 $\pm$ 34.344 χ^2 /NDF: 20133.9/60

asym_bcm0l02_rms vs Slug



Right In: 190.519 $\pm$ 0.031 χ^2 /NDF: 1582376.9/34

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 190.575 $\pm$ 0.031 χ^2 /NDF: 2202628.8/37

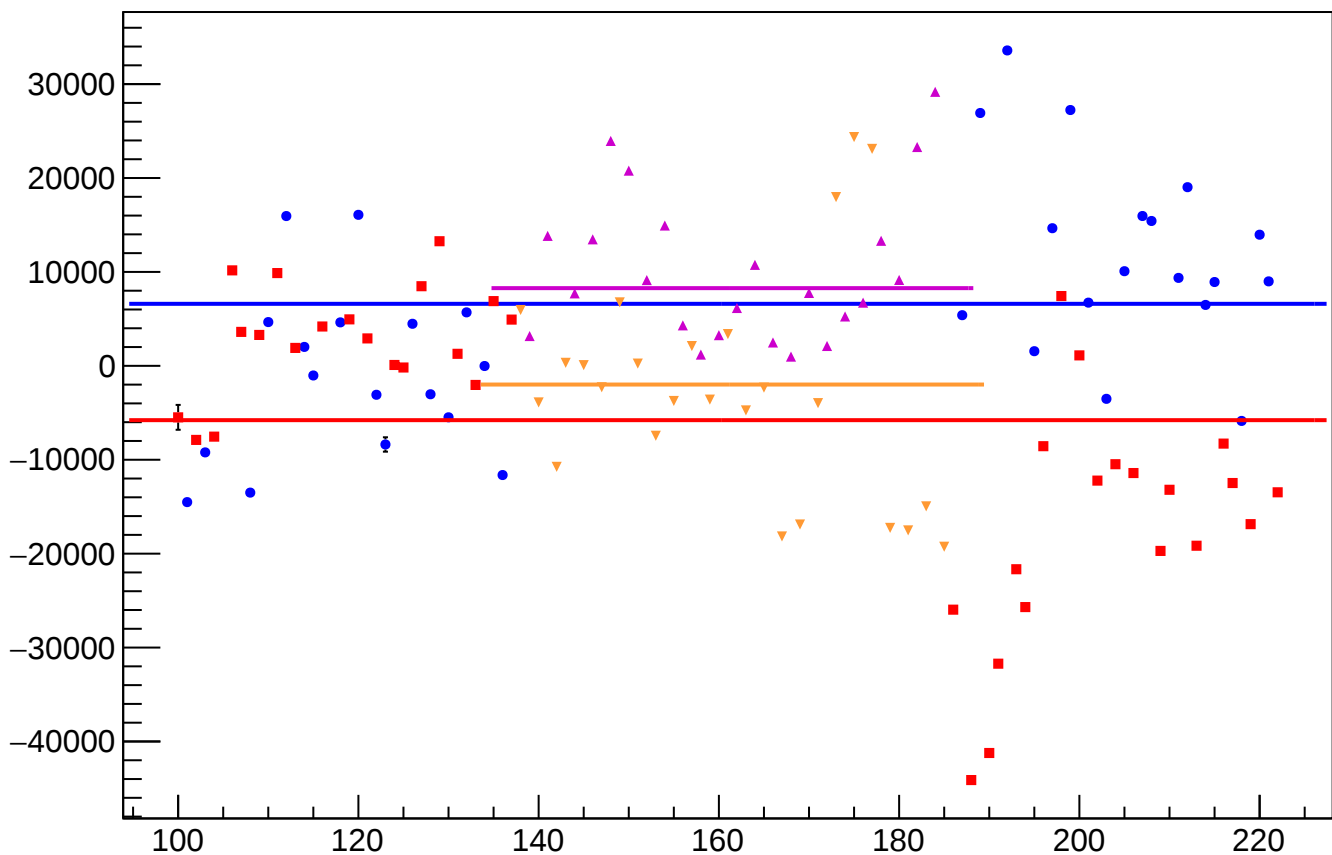
Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

+ sign 209.062 $\pm$ 0.025 χ^2 /NDF: 3509498.9/59

All: 205.647 $\pm$ 0.017 χ^2 /NDF: 7448927.7/120

- sign 202.388 $\pm$ 0.024 χ^2 /NDF: 3902555.2/60

asym_bpm0i02WS_mean vs Slug



Right In: 6603.746+/-38.496 χ^2/NDF : 96972.3/34

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -5785.090+/-37.164 χ^2/NDF : 147766.2/37

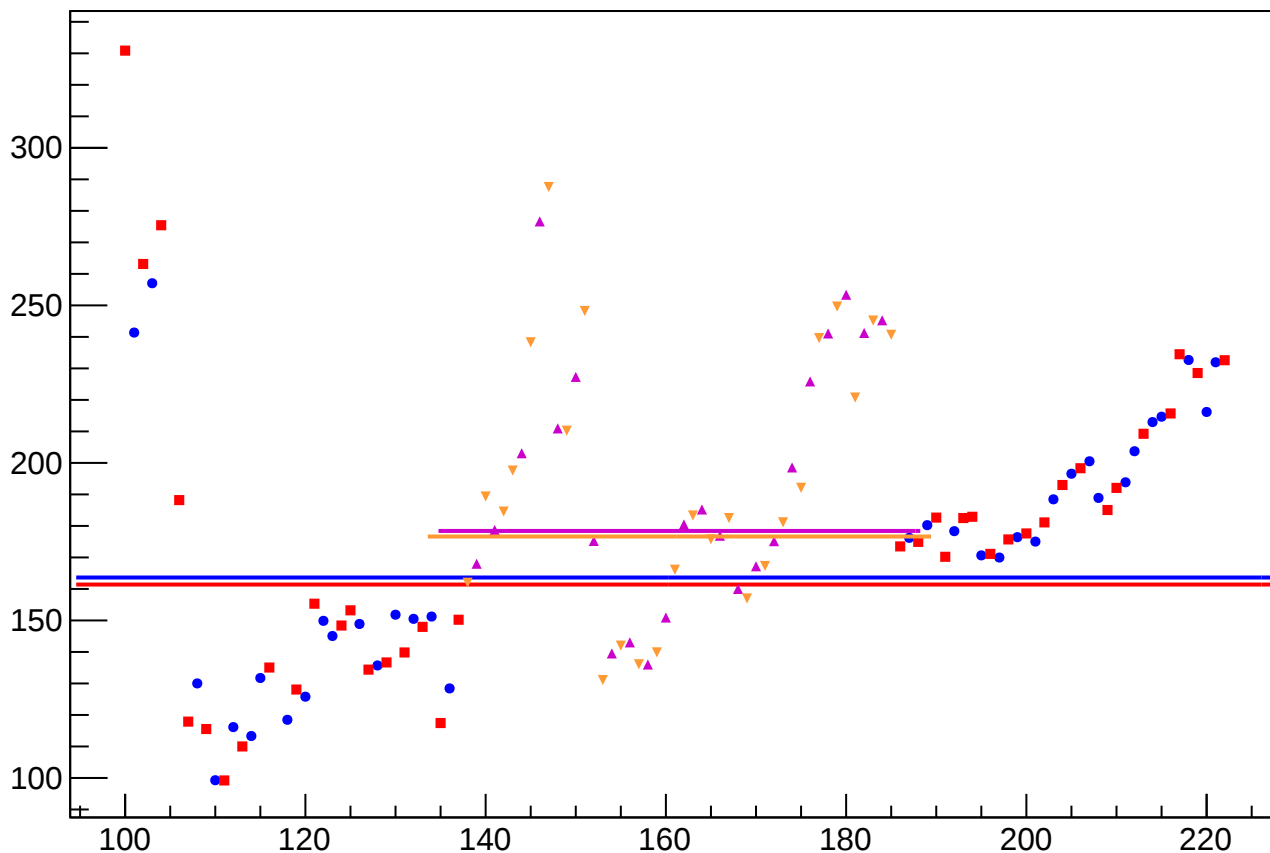
Left In: 8273.228+/-44.301 χ^2/NDF : 22870.2/22

+ sign 2722.542+/-28.509 χ^2/NDF : 183250.9/59

All: 1370.421+/-20.146 χ^2/NDF : 417486.0/12

- sign 21.816+/-28.472 χ^2/NDF : 229742.3/60

asym_bpm0i02WS_rms vs Slug



Right In: 163.628 $\pm$ 0.027 χ^2 /NDF: 1948010.5/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 161.398 $\pm$ 0.026 χ^2 /NDF: 2298843.7/37

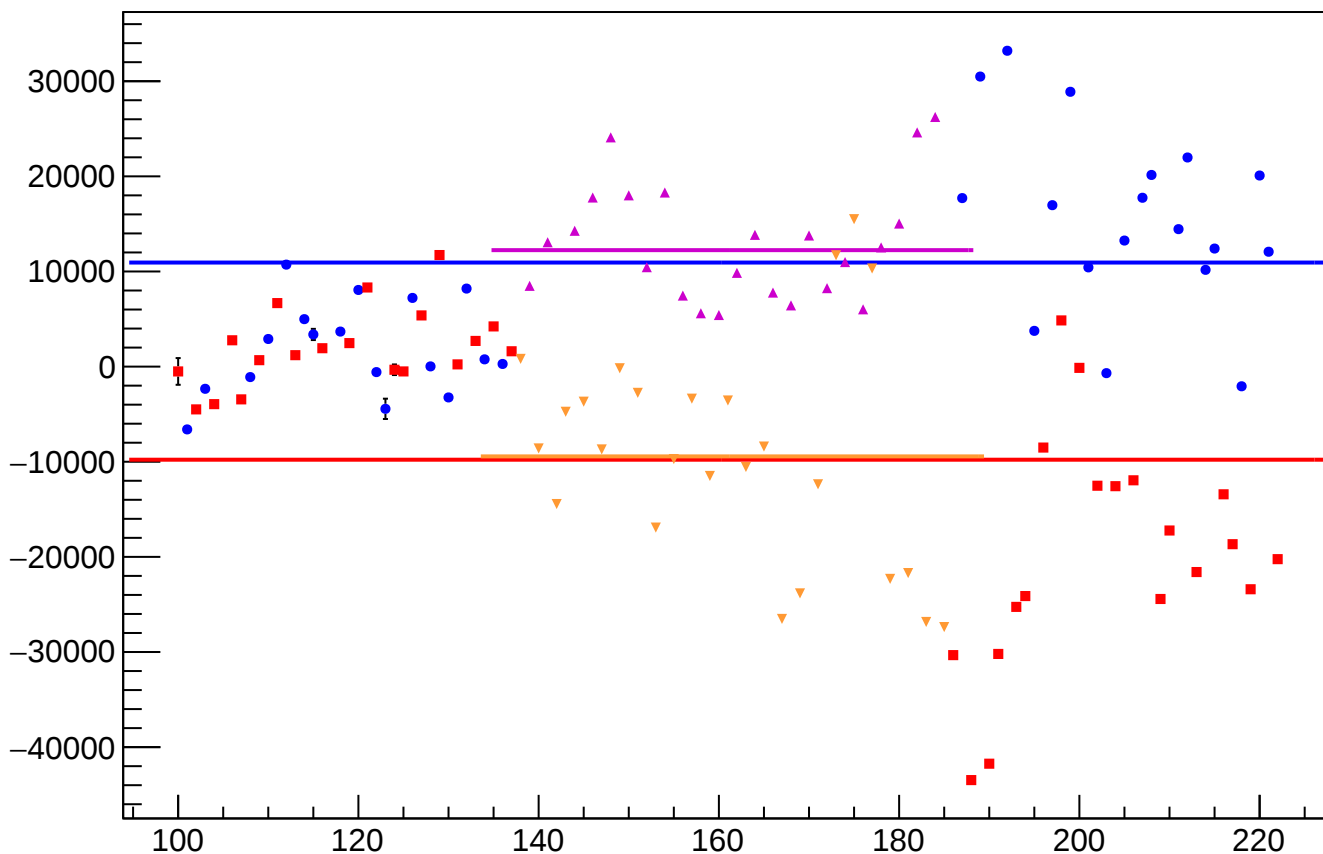
Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

+ sign 169.504 $\pm$ 0.020 χ^2 /NDF: 3602244.0/59

All: 168.964 $\pm$ 0.014 χ^2 /NDF: 7369433.4/120

- sign 168.426 $\pm$ 0.020 χ^2 /NDF: 3765758.3/60

asym_bpm0i02aWS_mean vs Slug



Right In: 10939.118 $\pm$ 42.065 χ^2 /NDF: 58975.7/34

Left Out: -9437.408 $\pm$ 45.534 χ^2 /NDF:62220.4/24

Right Out: -9785.825 $\pm$ 40.741 χ^2 /NDF: 122111.8/37

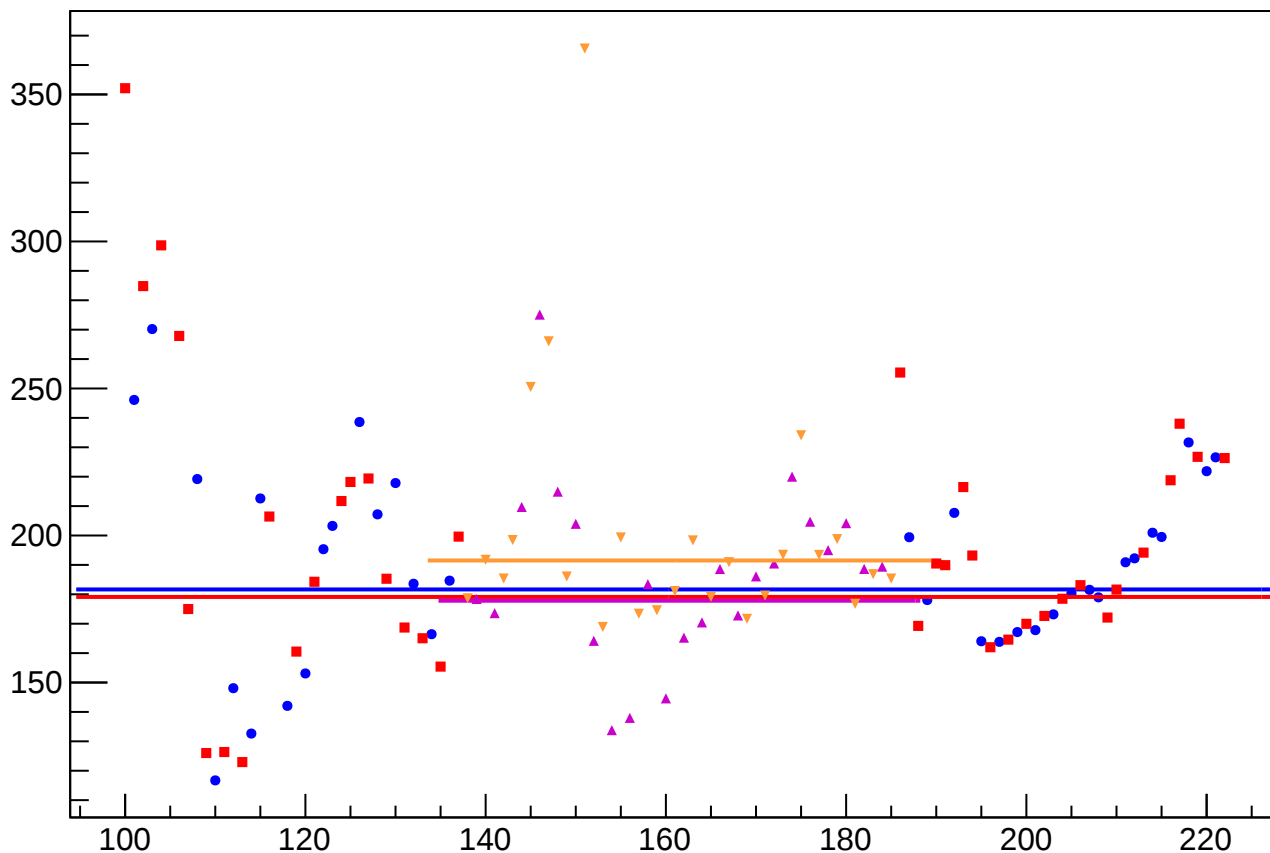
Left In: 12242.226 $\pm$ 43.944 χ^2 /NDF:16615.8/22

+ sign 1556.662 $\pm$ 30.898 χ^2 /NDF: 229242.6/59

All: 956.921 $\pm$ 21.478 χ^2 /NDF: 503826.1/120

- sign 396.177 $\pm$ 29.877 χ^2 /NDF: 273854.5/60

asym_bpm0i02aWS_rms vs Slug



Right In: 181.658 $\pm$ 0.030 χ^2 /NDF: 988280.1/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.105 $\pm$ 0.029 χ^2 /NDF: 1460773.2/37

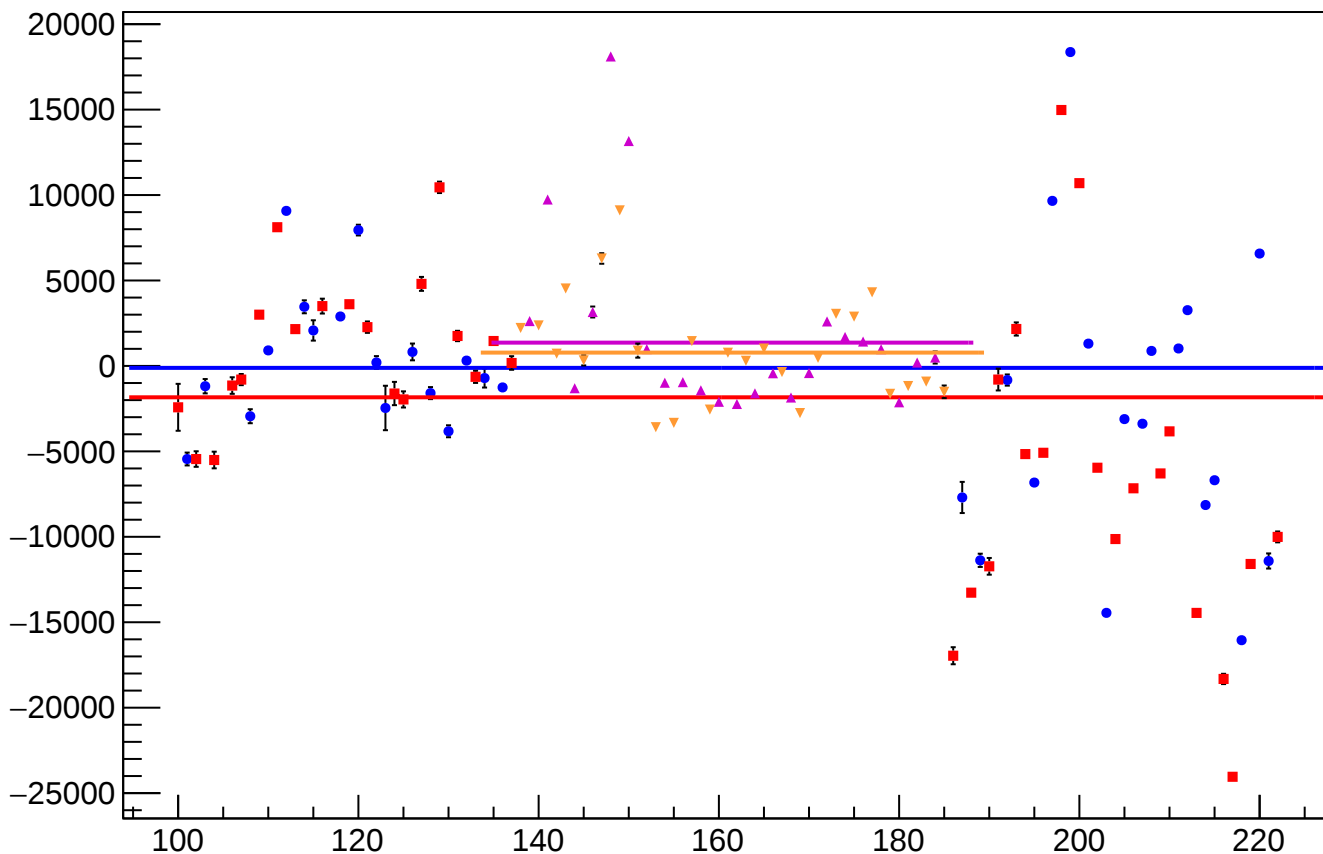
Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

+ sign 186.193 $\pm$ 0.022 χ^2 /NDF: 1766019.8/59

All: 182.223 $\pm$ 0.015 χ^2 /NDF: 4154080.8/120

- sign 178.512 $\pm$ 0.021 χ^2 /NDF: 2324184.6/60

asym_bpm0i05WS_mean vs Slug



Right In: -113.757 ± 47.146 χ^2/NDF : 26726.9/34

Left Out: 779.983 ± 47.457 χ^2/NDF : 4260.8/24

Right Out: -1836.360 ± 45.922 χ^2/NDF : 36441.2/37

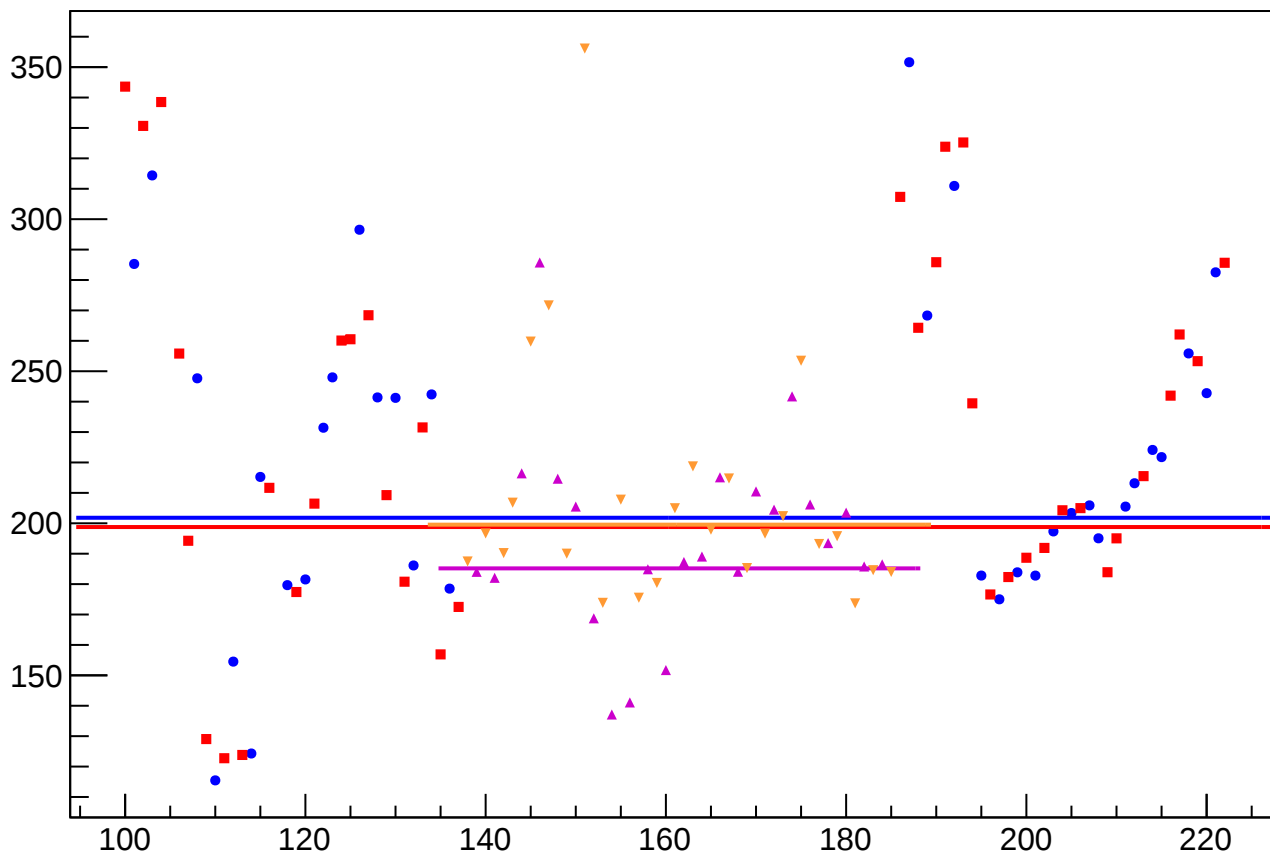
Left In: 1363.043 ± 45.807 χ^2/NDF : 11632.9/22

+ sign 330.171 ± 33.447 χ^2/NDF : 31166.1/59

All: 40.092 ± 23.283 χ^2/NDF : 81819.3/120

- sign -232.633 ± 32.431 χ^2/NDF : 50507.2/60

asym_bpm0i05WS_rms vs Slug



Right In: 201.820 ± 0.033 χ^2/NDF : 1661626.0/34

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 198.766 ± 0.032 χ^2/NDF : 2554157.6/37

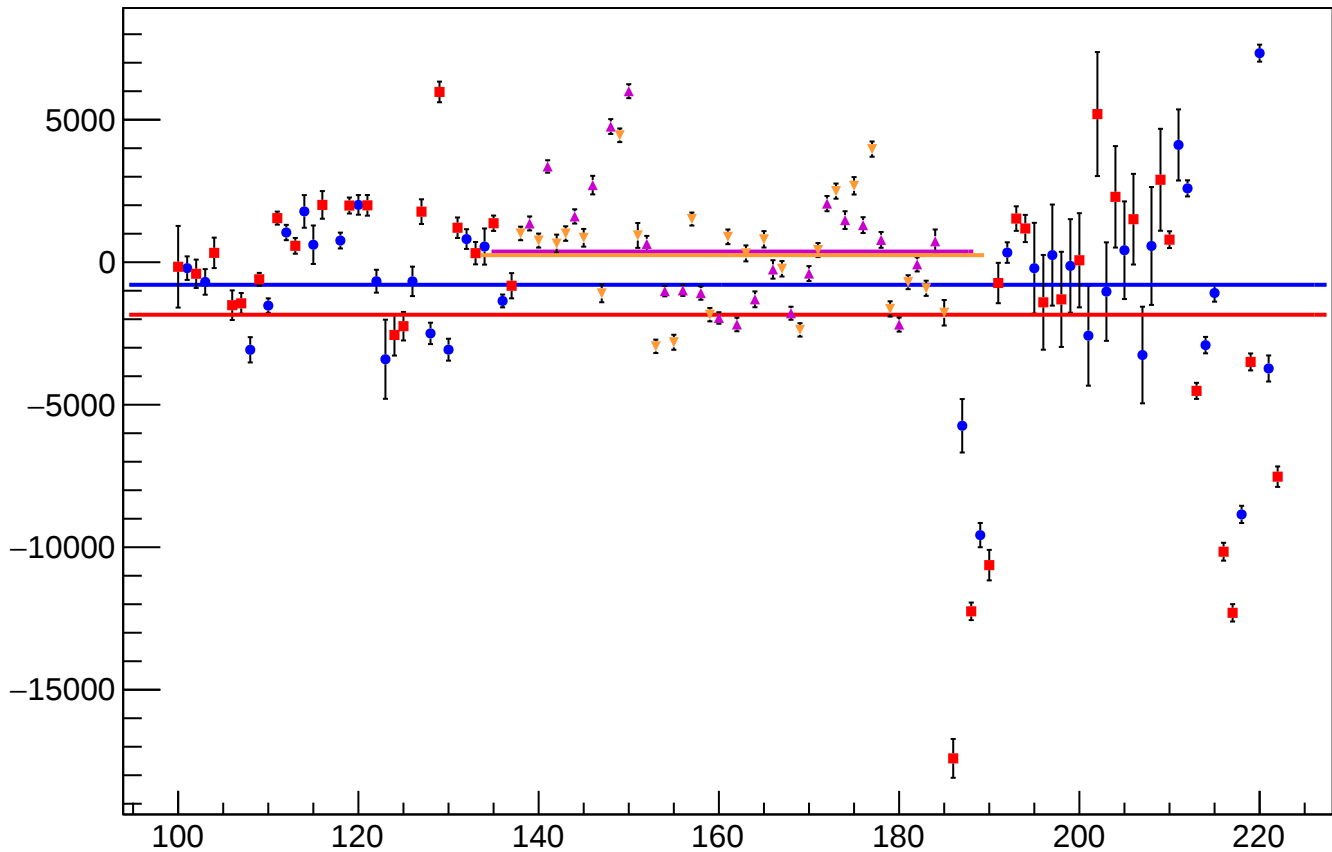
Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

+ sign 200.691 ± 0.024 χ^2/NDF : 2393292.0/59

All: 196.186 ± 0.016 χ^2/NDF : 5988457.0/120

- sign 191.951 ± 0.023 χ^2/NDF : 3524783.7/60

asym_bpm0i07WS_mean vs Slug



Right In: -791.889 ± 69.530 χ^2/NDF : 2474.8/34

Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24

Right Out: -1842.426 ± 64.240 χ^2/NDF : 5900.0/37

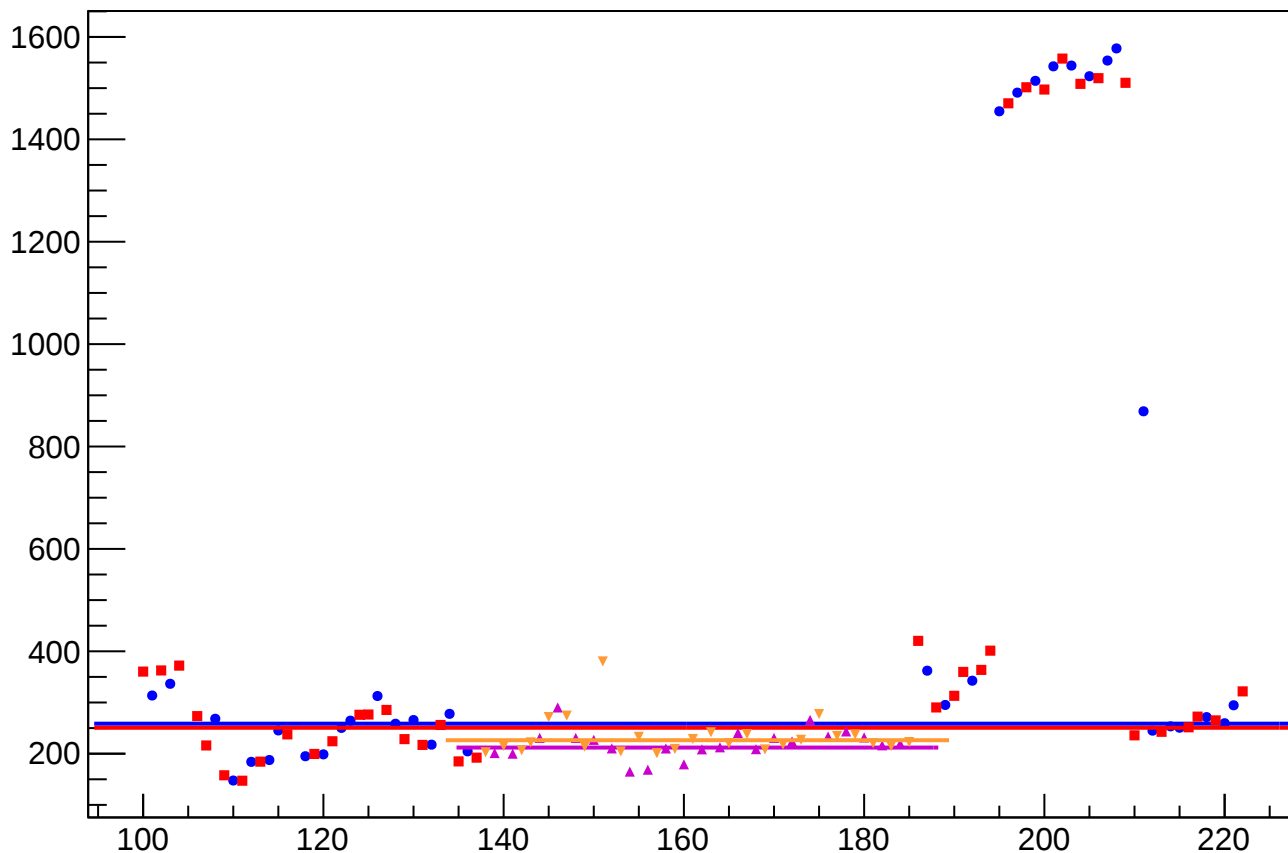
Left In: 374.122 ± 52.049 χ^2/NDF : 1801.0/22

+ sign -139.311 ± 42.428 χ^2/NDF : 3970.2/59

All: -330.559 ± 29.273 χ^2/NDF : 12428.8/120

- sign -504.311 ± 40.441 χ^2/NDF : 8419.8/60

asym_bpm0i07WS_rms vs Slug



Right In: 258.627+/-0.049 χ^2/NDF : 10164089.9/34

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 250.648+/-0.045 χ^2/NDF : 9376061.9/37

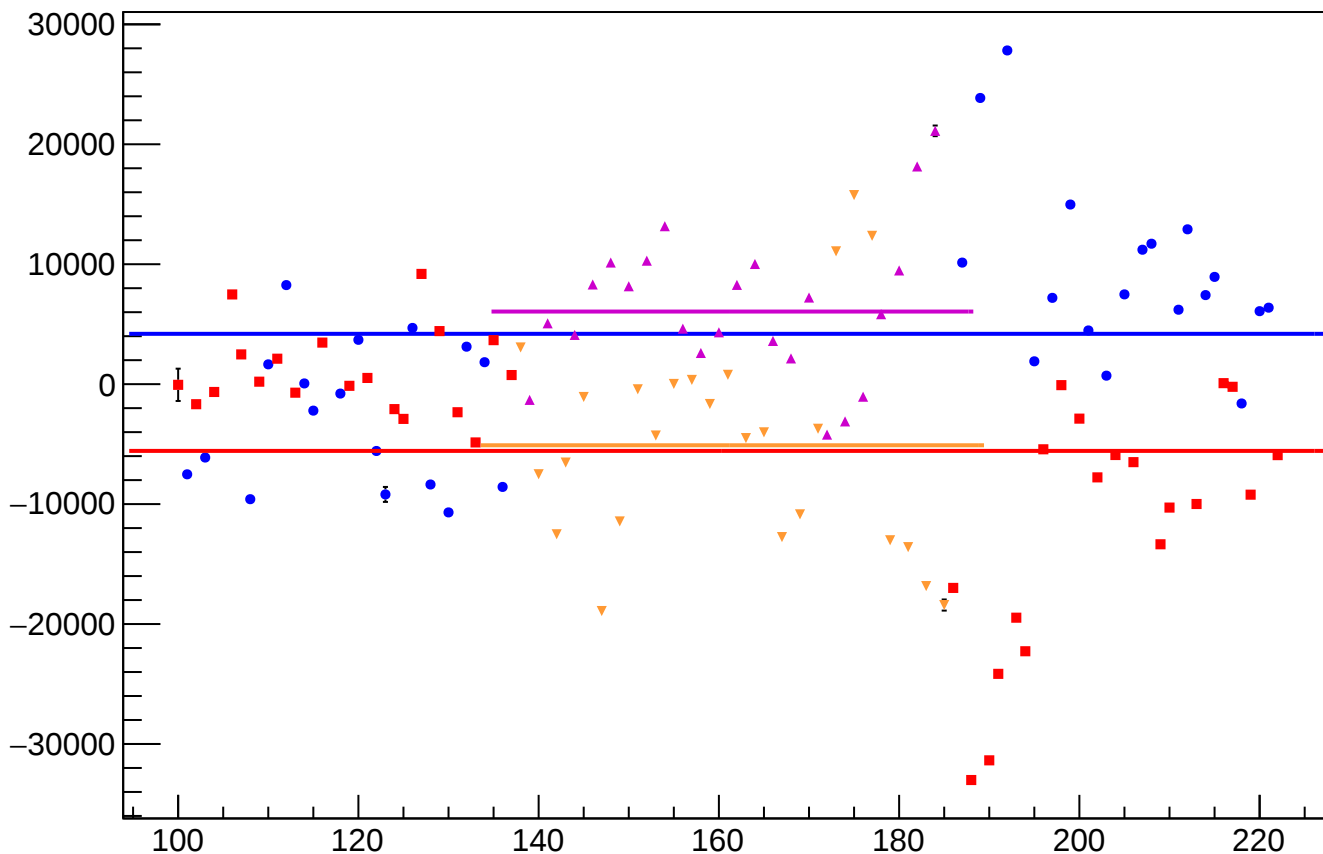
Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

+ sign 238.351+/-0.030 χ^2/NDF : 10956117.6/59

All: 232.560+/-0.021 χ^2/NDF : 21425322.3/12

- sign 227.298+/-0.029 χ^2/NDF : 10398091.8/60

asym_bpm1i02WS_mean vs Slug



Right In: 4196.606+/-32.739 χ^2/NDF : 80929.2/34

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: -5564.454+/-31.397 χ^2/NDF : 105368.0/37

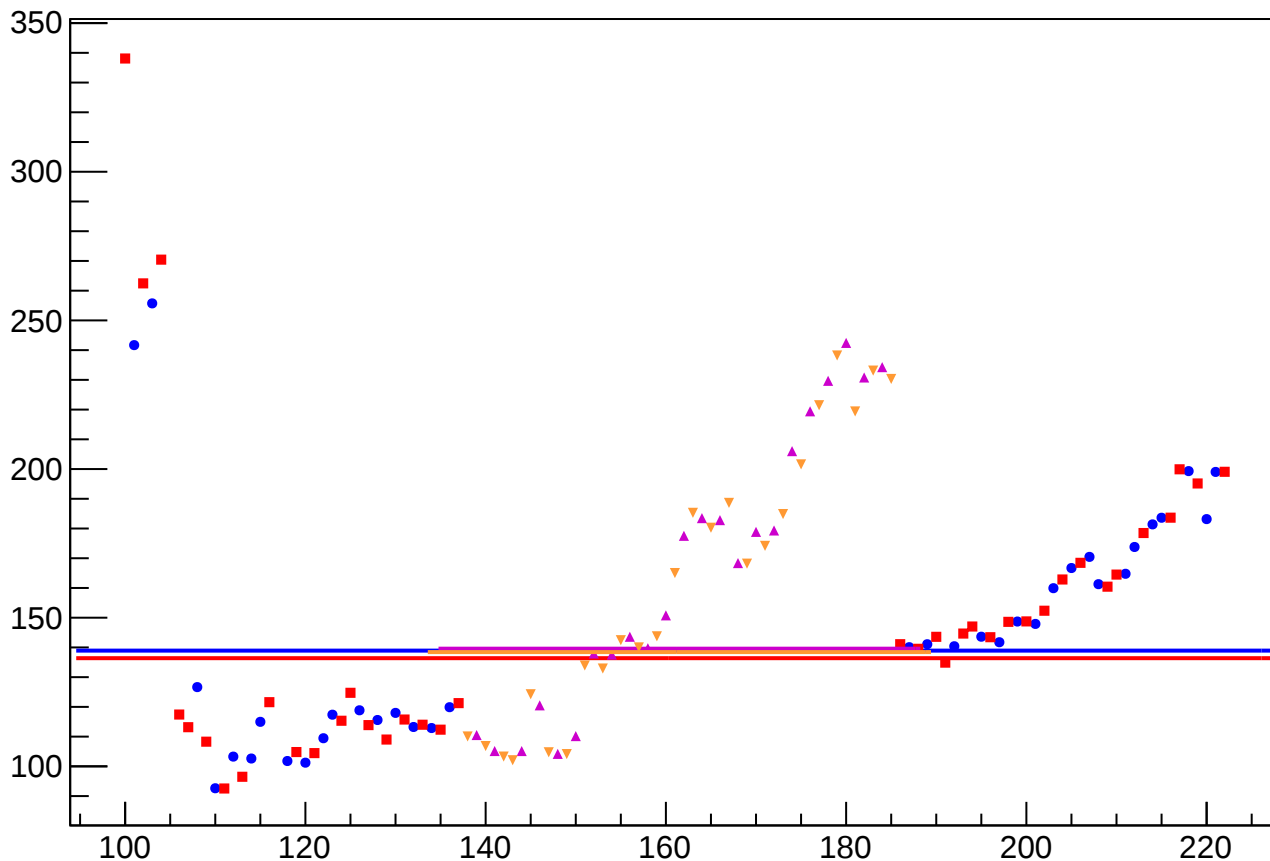
Left In: 6053.569+/-34.998 χ^2/NDF : 17590.3/22

+ sign -314.521+/-23.484 χ^2/NDF : 174431.7/59

All: -349.287+/-16.565 χ^2/NDF : 358453.0/12

- sign -383.720+/-23.371 χ^2/NDF : 184017.0/60

asym_bpm1i02WS_rms vs Slug



Right In: 138.928 $\pm$ 0.023 χ^2 /NDF: 1962581.1/34

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 136.382 $\pm$ 0.022 χ^2 /NDF: 2179345.5/37

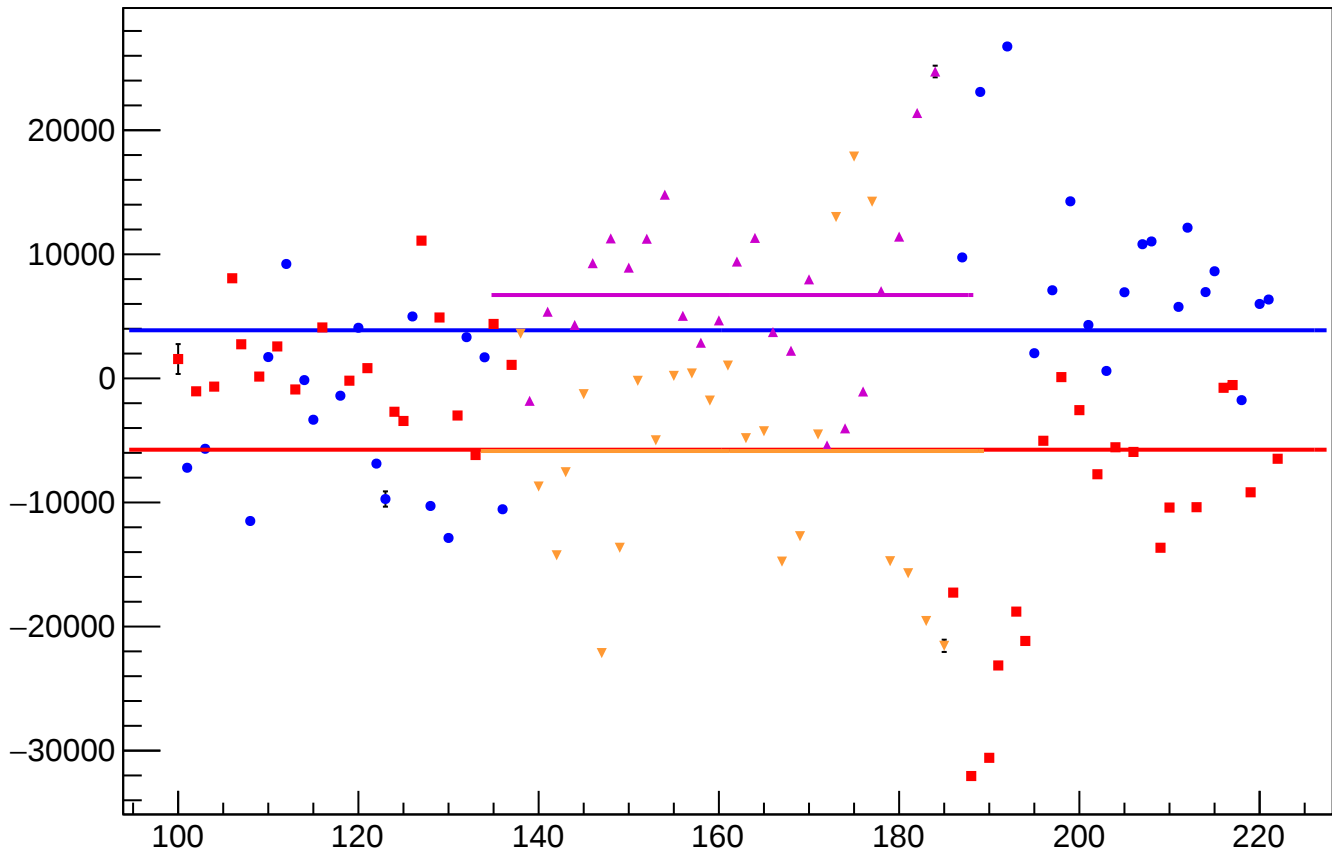
Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

+ sign 138.689 $\pm$ 0.017 χ^2 /NDF: 4512236.8/59

All: 138.246 $\pm$ 0.012 χ^2 /NDF: 9115896.5/120

- sign 137.807 $\pm$ 0.017 χ^2 /NDF: 4602242.4/60

asym_bpm2i01WS_mean vs Slug



Right In: 3877.056 ± 32.626 χ^2/NDF : 86110.3/34

Left Out: -5852.544 ± 35.880 χ^2/NDF : 63411.4/24

Right Out: -5747.136 ± 31.403 χ^2/NDF : 106054.0/37

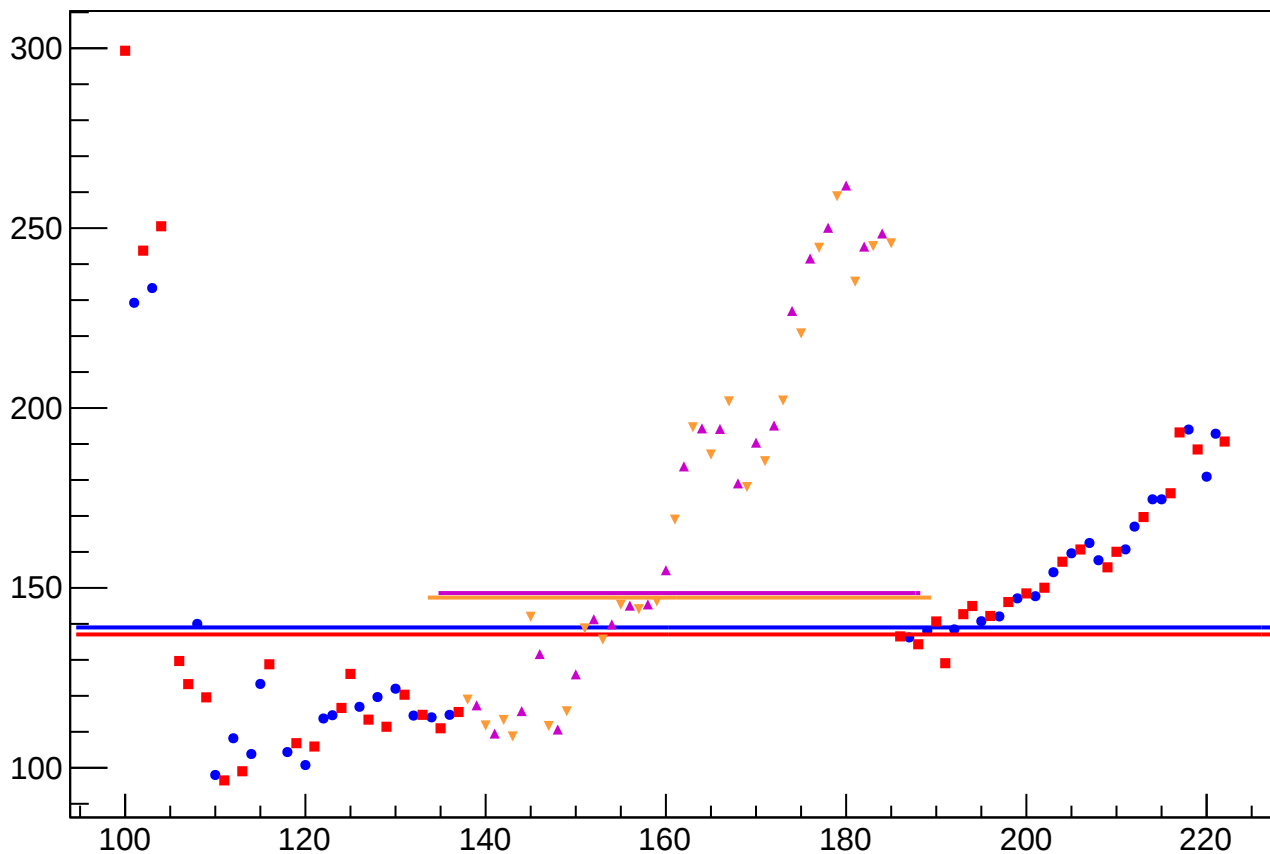
Left In: 6718.475 ± 37.276 χ^2/NDF : 20934.3/22

+ sign -526.712 ± 24.139 χ^2/NDF : 189773.4/59

All: -549.746 ± 17.025 χ^2/NDF : 382174.8/12

- sign -572.547 ± 24.016 χ^2/NDF : 192399.7/60

asym_bpm2i01WS_rms vs Slug



Right In: 139.015+/-0.023 χ^2/NDF : 1578379.8/34

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 137.066+/-0.022 χ^2/NDF : 1711664.9/37

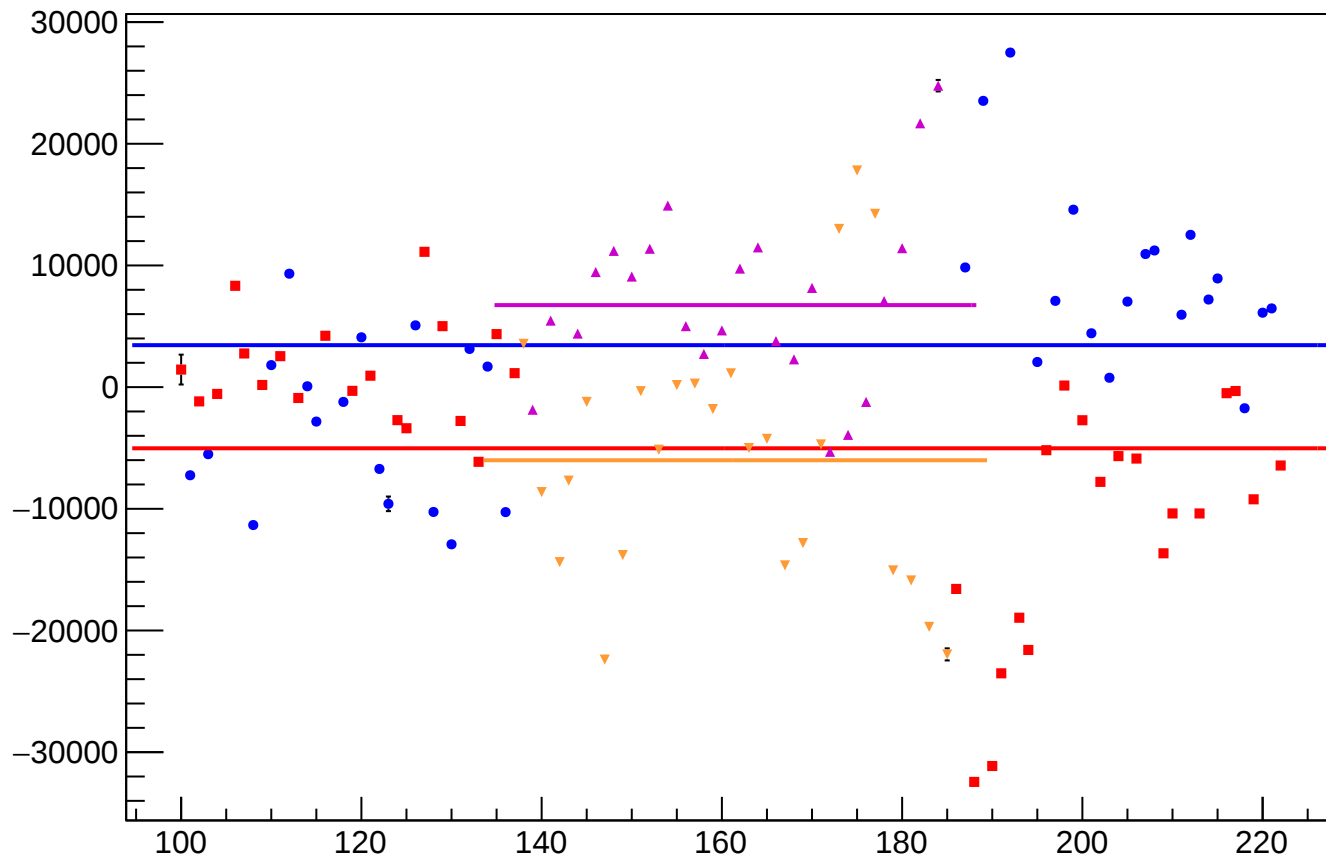
Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

+ sign 142.773+/-0.017 χ^2/NDF : 4148678.6/59

All: 142.304+/-0.012 χ^2/NDF : 8366422.8/120

- sign 141.841+/-0.017 χ^2/NDF : 4216246.1/60

asym_bpm2i02WS_mean vs Slug



Right In: 3449.457 ± 32.856 $\chi^2/\text{NDF}: 85829.3/34$

Left Out: -6009.913 ± 35.082 $\chi^2/\text{NDF}: 67852.2/24$

Right Out: -5026.609 ± 31.648 $\chi^2/\text{NDF}: 100876.8/37$

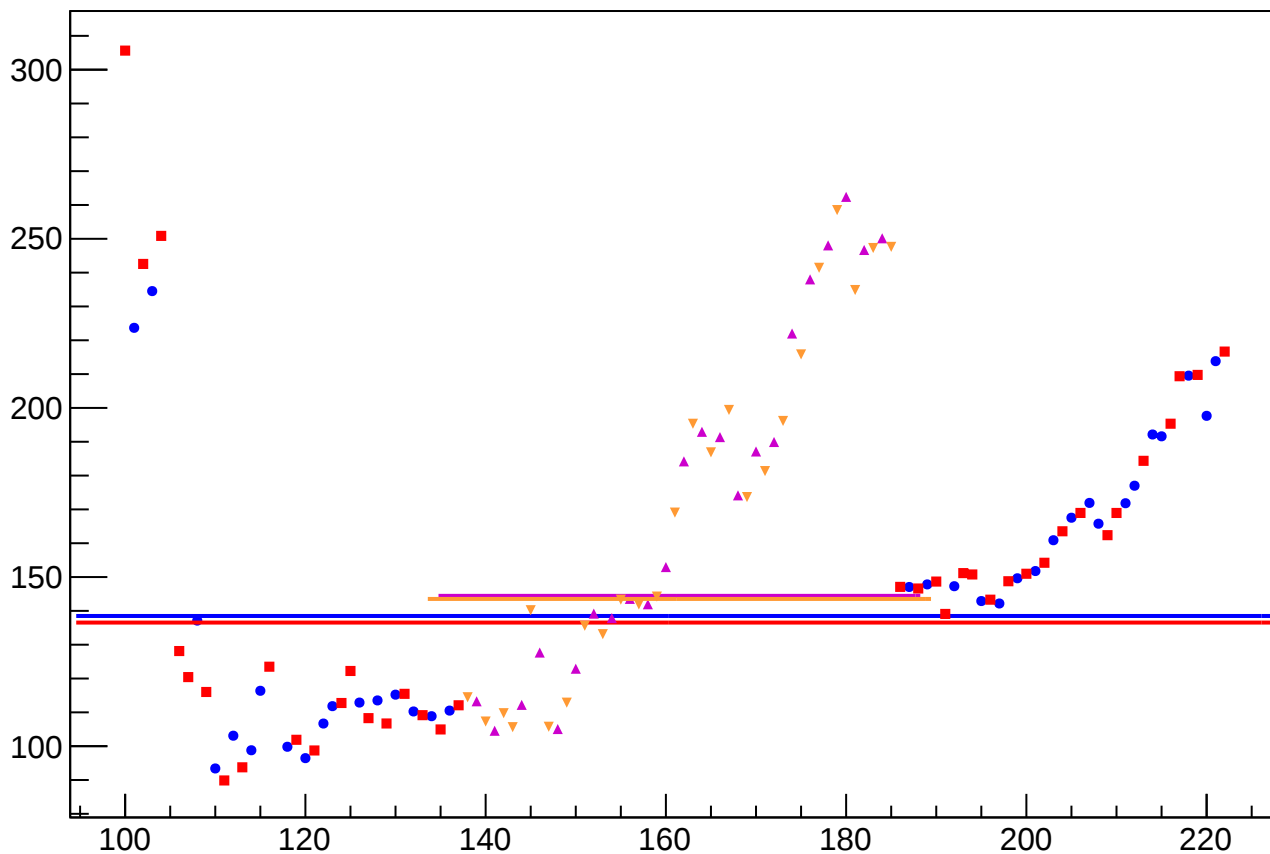
Left In: 6740.666 ± 36.379 $\chi^2/\text{NDF}: 22071.8/22$

+ sign -970.566 ± 23.981 $\chi^2/\text{NDF}: 192412.6/59$

All: -461.799 ± 16.920 $\chi^2/\text{NDF}: 375812.3/12$

- sign 42.575 ± 23.877 $\chi^2/\text{NDF}: 182503.4/60$

asym_bpm2i02WS_rms vs Slug



Right In: 138.493+/-0.023 χ^2/NDF : 2271790.6/34

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 136.543+/-0.022 χ^2/NDF : 2505350.8/37

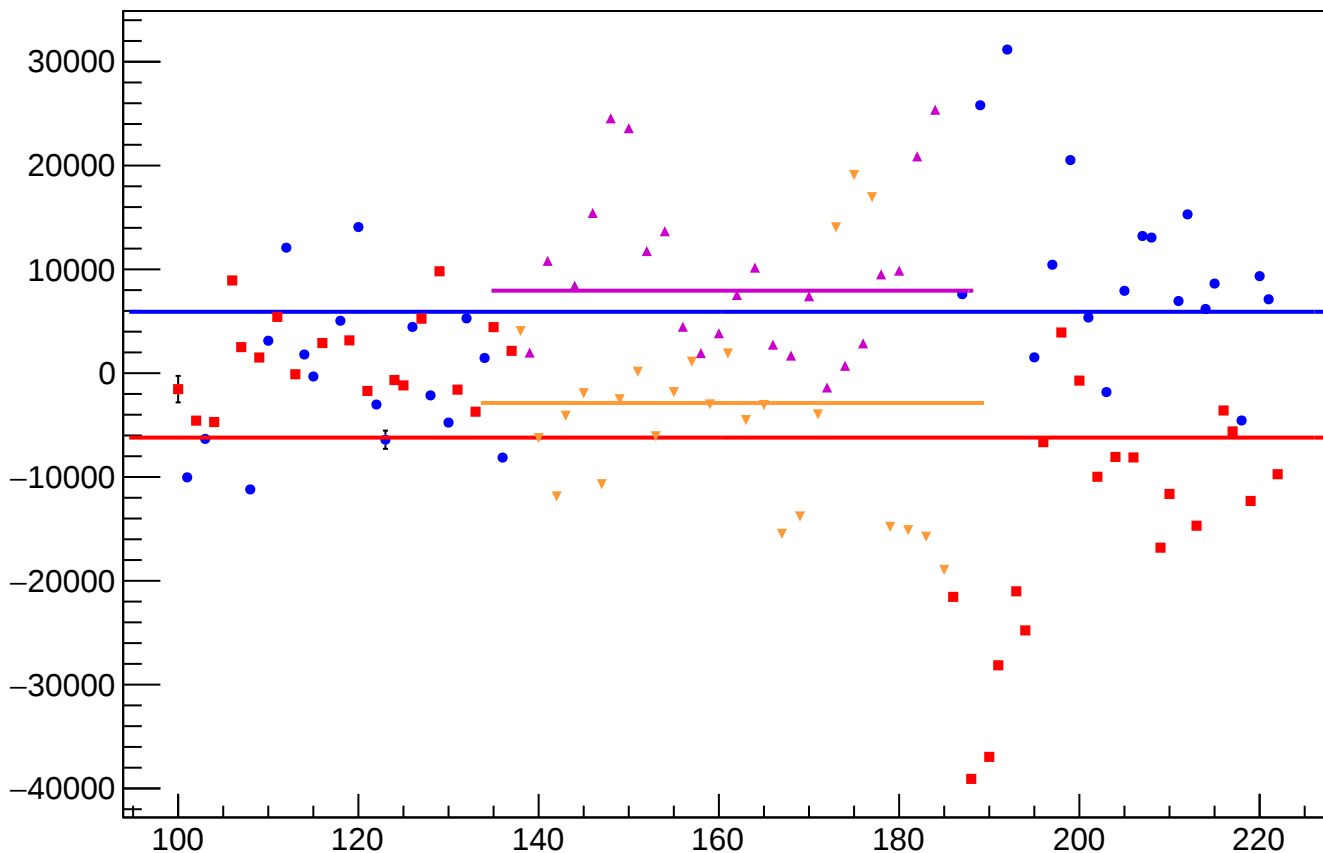
Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

+ sign 140.847+/-0.017 χ^2/NDF : 4998549.6/59

All: 140.394+/-0.012 χ^2/NDF : 10145882.9/12

- sign 139.945+/-0.017 χ^2/NDF : 5145912.3/60

asym_bpm0i01WS_mean vs Slug



Right In: 5913.664 ± 39.429 $\chi^2/\text{NDF}: 65314.3/34$

Left Out: -2870.473 ± 39.482 $\chi^2/\text{NDF}: 46420.3/24$

Right Out: -6204.114 ± 38.006 $\chi^2/\text{NDF}: 100681.4/37$

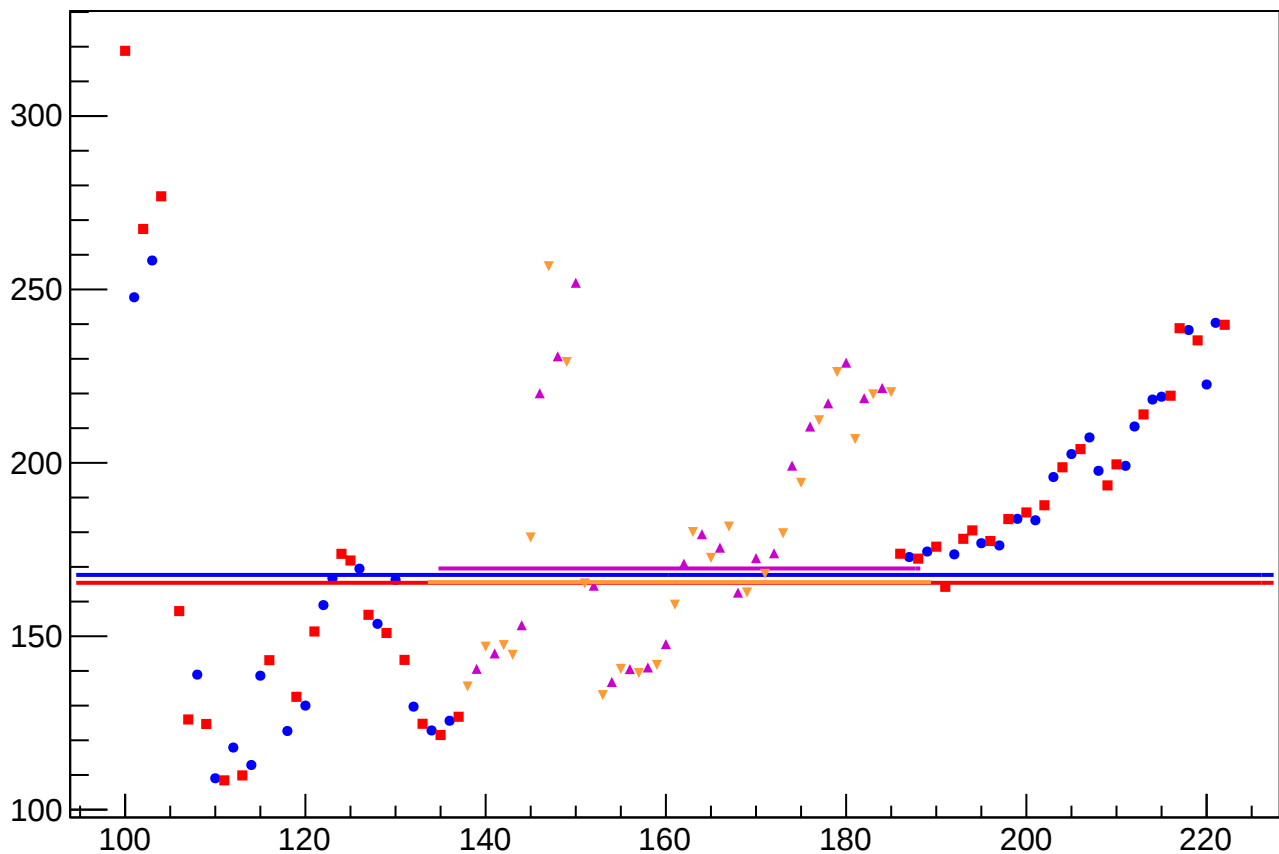
Left In: 7947.160 ± 41.726 $\chi^2/\text{NDF}: 23874.5/22$

+ sign 1527.463 ± 27.899 $\chi^2/\text{NDF}: 136517.2/59$

All: 874.745 ± 19.798 $\chi^2/\text{NDF}: 325041.6/120$

- sign 212.732 ± 28.097 $\chi^2/\text{NDF}: 187422.0/60$

asym_bpm0i01WS_rms vs Slug



Right In: 167.689 ± 0.028 χ^2/NDF : 1978731.1/34

Left Out: 165.616 ± 0.028 χ^2/NDF : 1144779.3/24

Right Out: 165.414 ± 0.027 χ^2/NDF : 2170734.4/37

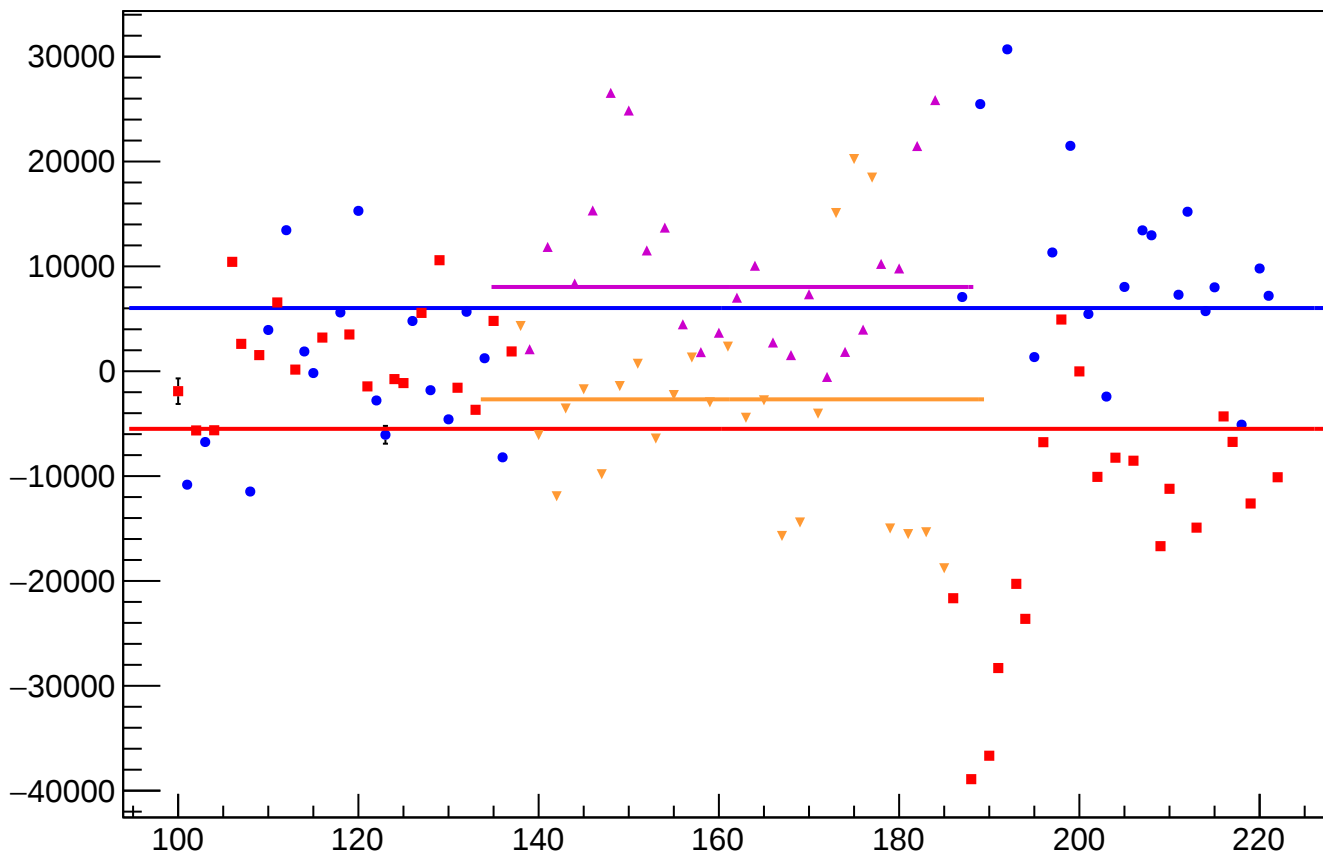
Left In: 169.542 ± 0.030 χ^2/NDF : 1159241.9/22

+ sign 166.654 ± 0.020 χ^2/NDF : 3126269.1/59

All: 166.968 ± 0.014 χ^2/NDF : 6467450.7/120

- sign 167.286 ± 0.020 χ^2/NDF : 3340672.4/60

asym_bpm0i01aWS_mean vs Slug



Right In: 6027.390+/-33.534 χ^2/NDF : 91426.9/34

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: -5493.592+/-32.113 χ^2/NDF : 141107.2/37

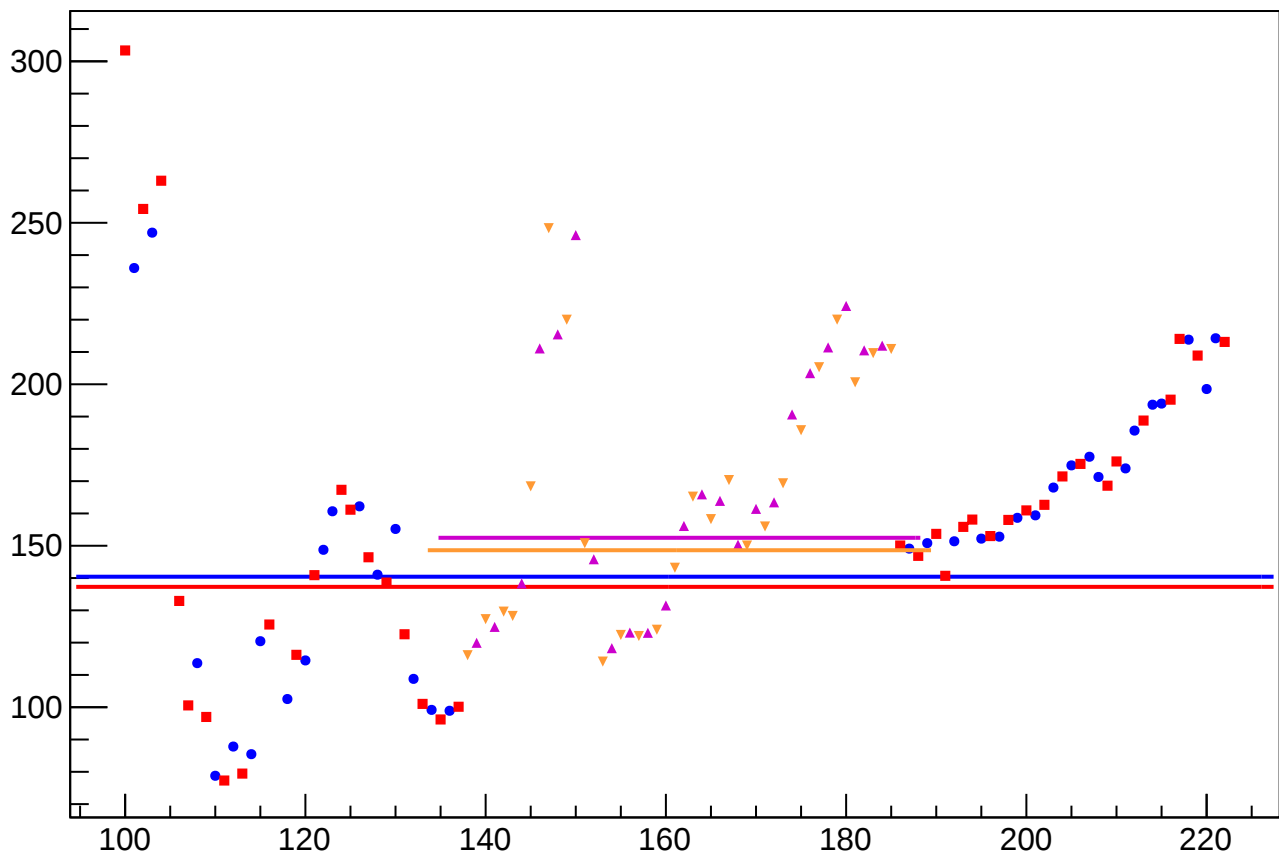
Left In: 8036.826+/-37.924 χ^2/NDF : 29261.6/22

+ sign 1953.581+/-24.462 χ^2/NDF : 179791.9/59

All: 1056.766+/-17.313 χ^2/NDF : 426986.4/12

- sign 156.644+/-24.507 χ^2/NDF : 244501.5/60

asym_bpm0i01aWS_rms vs Slug



Right In: 140.413+/-0.024 χ^2/NDF : 2931632.8/34

Left Out: 148.611+/-0.025 χ^2/NDF : 1685424.1/24

Right Out: 137.272+/-0.023 χ^2/NDF : 3312582.2/37

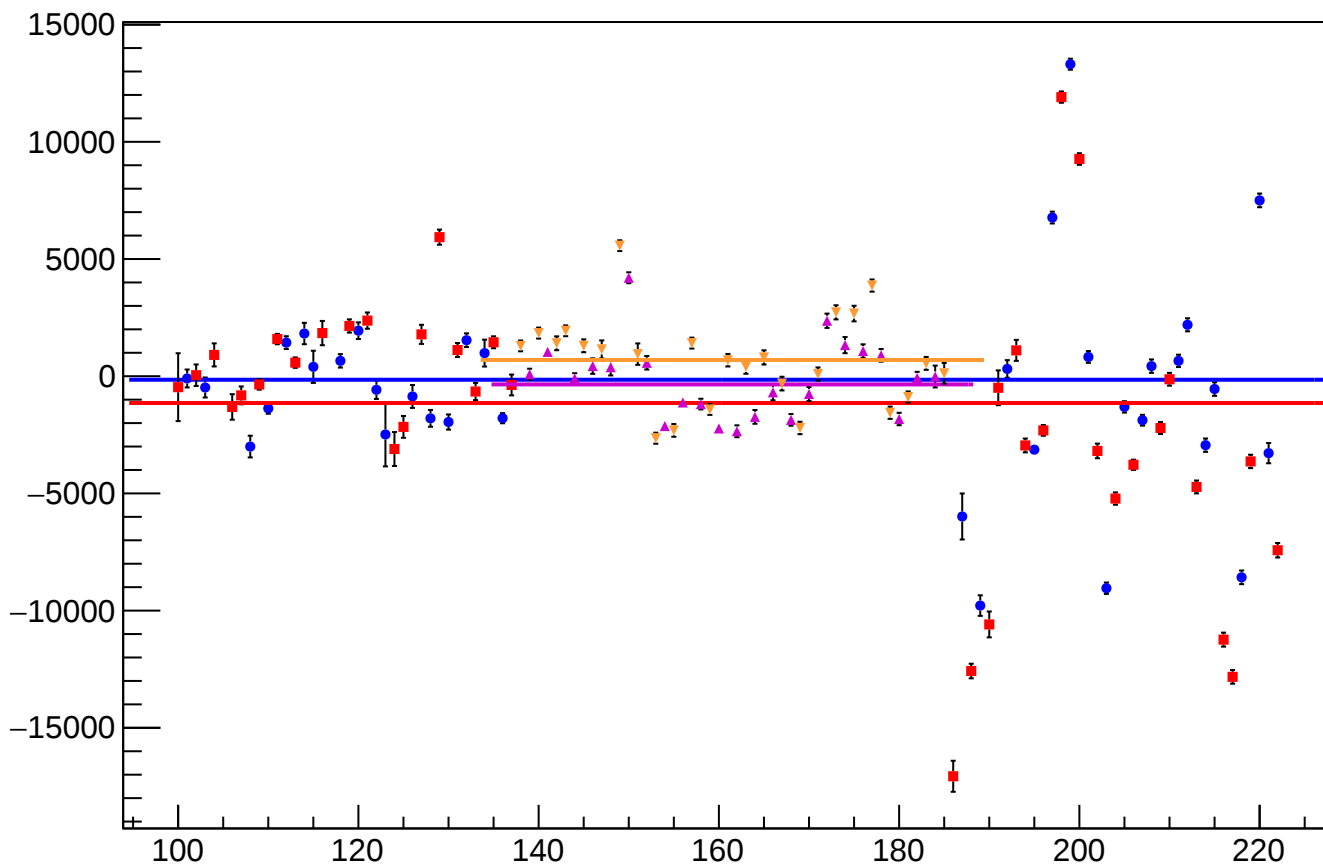
Left In: 152.463+/-0.027 χ^2/NDF : 1691517.7/22

+ sign 144.248+/-0.017 χ^2/NDF : 4672977.4/59

All: 143.933+/-0.012 χ^2/NDF : 9864635.3/120

- sign 143.616+/-0.017 χ^2/NDF : 5190991.3/60

asym_bpm0l01WS_mean vs Slug



Right In: -150.257 ± 51.868 $\chi^2/\text{NDF}: 8238.4/34$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: -1141.907 ± 50.892 $\chi^2/\text{NDF}: 12097.2/37$

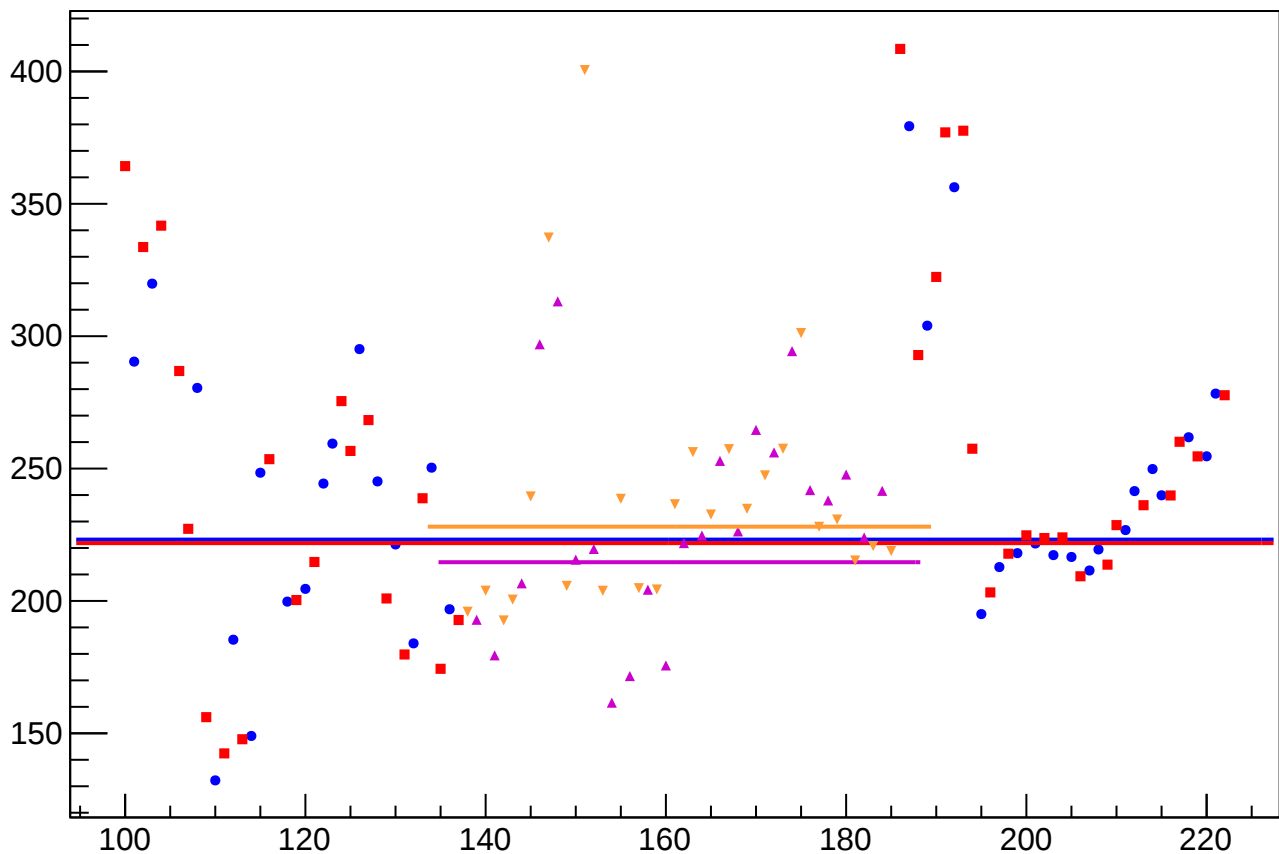
Left In: -349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

+ sign 252.037 ± 37.508 $\chi^2/\text{NDF}: 9786.5/59$

All: -265.737 ± 26.246 $\chi^2/\text{NDF}: 23354.2/120$

- sign -762.533 ± 36.740 $\chi^2/\text{NDF}: 13194.2/60$

asym_bpm0l01WS_rms vs Slug



Right In: 223.164 $\pm$ 0.037 χ^2 /NDF: 1300529.3/34

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF:826343.8/24

Right Out: 221.835 $\pm$ 0.036 χ^2 /NDF: 1986062.0/37

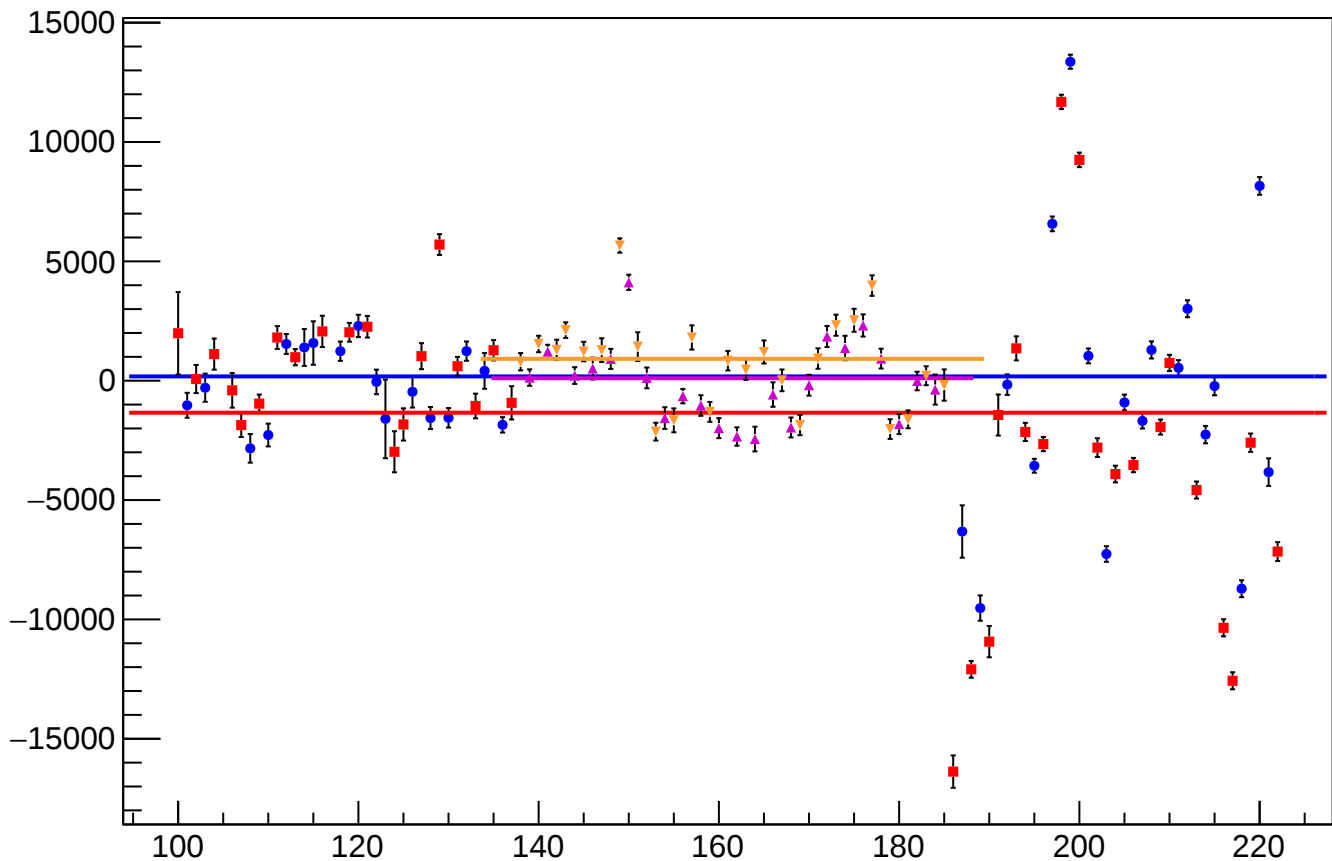
Left In: 214.627 $\pm$ 0.038 χ^2 /NDF:1025683.3/22

+ sign 225.500 $\pm$ 0.027 χ^2 /NDF: 2135377.7/59

All: 221.868 $\pm$ 0.019 χ^2 /NDF: 5203078.1/120

- sign 218.383 $\pm$ 0.026 χ^2 /NDF: 3030955.2/60

asym_bpm0l02WS_mean vs Slug



Right In: 180.065 ± 69.390 $\chi^2/\text{NDF}: 4960.1/34$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: -1341.625 ± 68.329 $\chi^2/\text{NDF}: 7517.5/37$

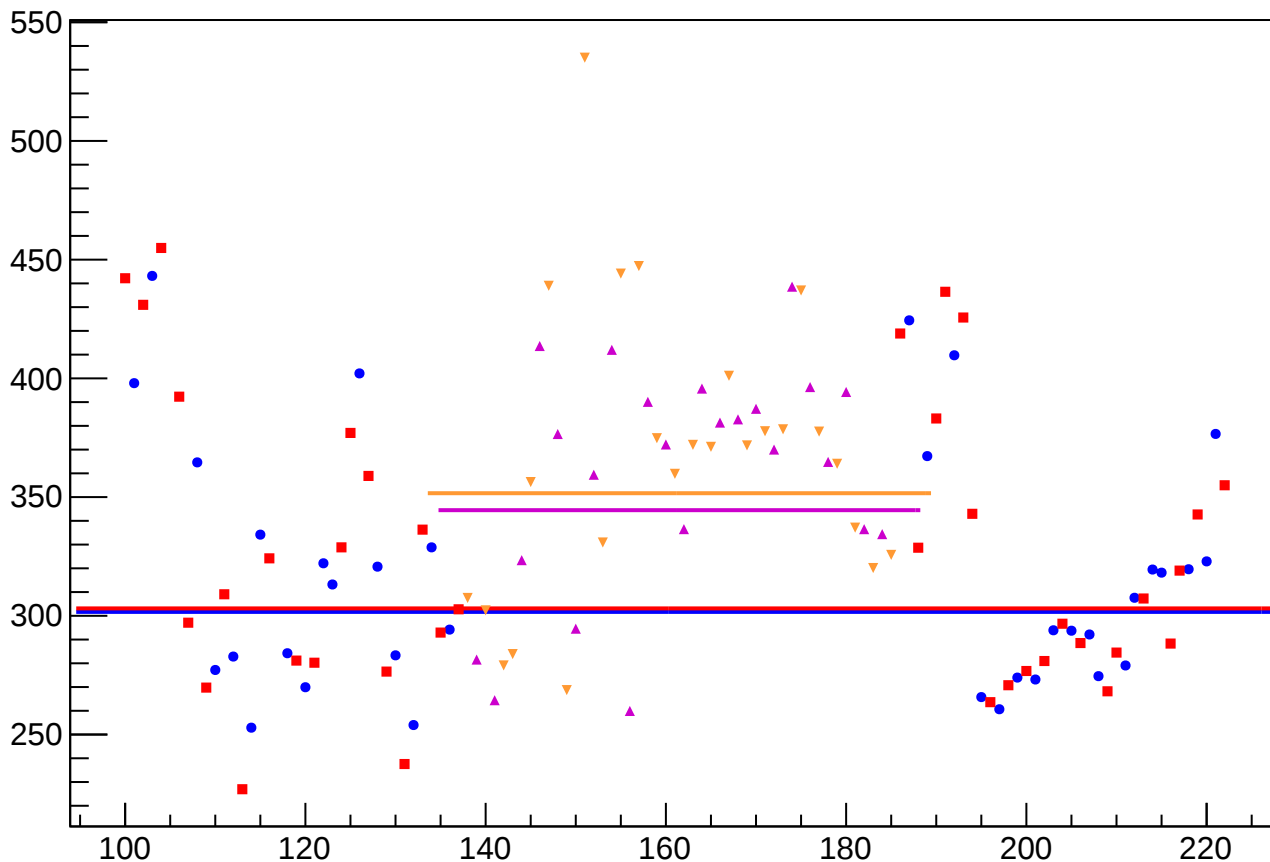
Left In: 106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

+ sign 481.109 ± 53.341 $\chi^2/\text{NDF}: 5624.4/59$

All: -146.401 ± 37.634 $\chi^2/\text{NDF}: 13985.5/120$

- sign -768.368 ± 53.105 $\chi^2/\text{NDF}: 8085.6/60$

asym_bpm0l02WS_rms vs Slug



Right In: 301.654 +/- 0.049 χ^2/NDF : 687355.9/34

Left Out: 351.633 +/- 0.059 χ^2/NDF : 907849.3/24

Right Out: 303.119 +/- 0.048 χ^2/NDF : 961256.4/37

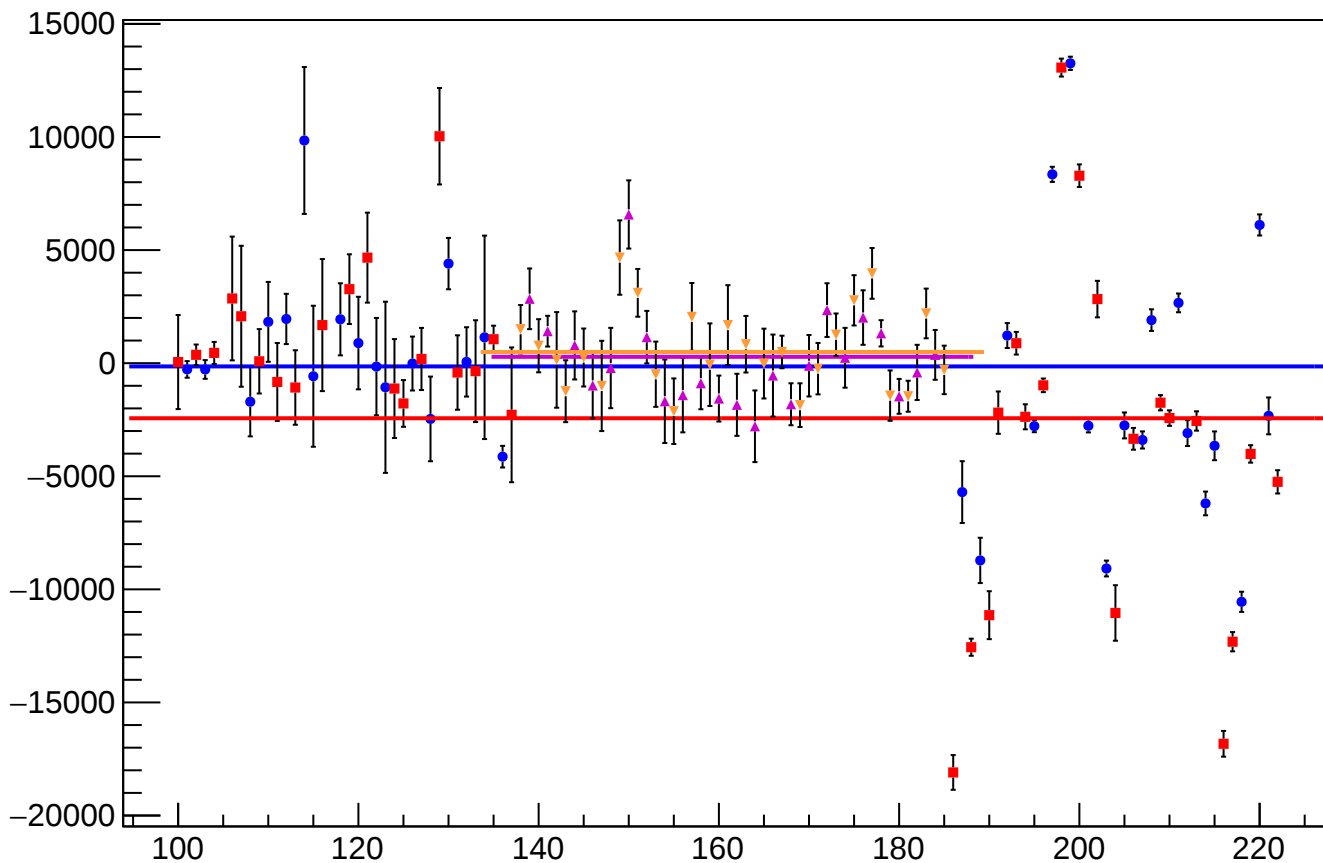
Left In: 344.491 +/- 0.060 χ^2/NDF : 768885.4/22

+ sign 322.099 +/- 0.038 χ^2/NDF : 2019648.0/59

All: 320.794 +/- 0.027 χ^2/NDF : 4042499.5/120

- sign 319.501 +/- 0.038 χ^2/NDF : 2020467.8/60

asym_bpm0l03WS_mean vs Slug



Right In: -143.738 ± 90.624 $\chi^2/\text{NDF}: 4828.4/34$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: -2435.033 ± 97.774 $\chi^2/\text{NDF}: 4767.5/37$

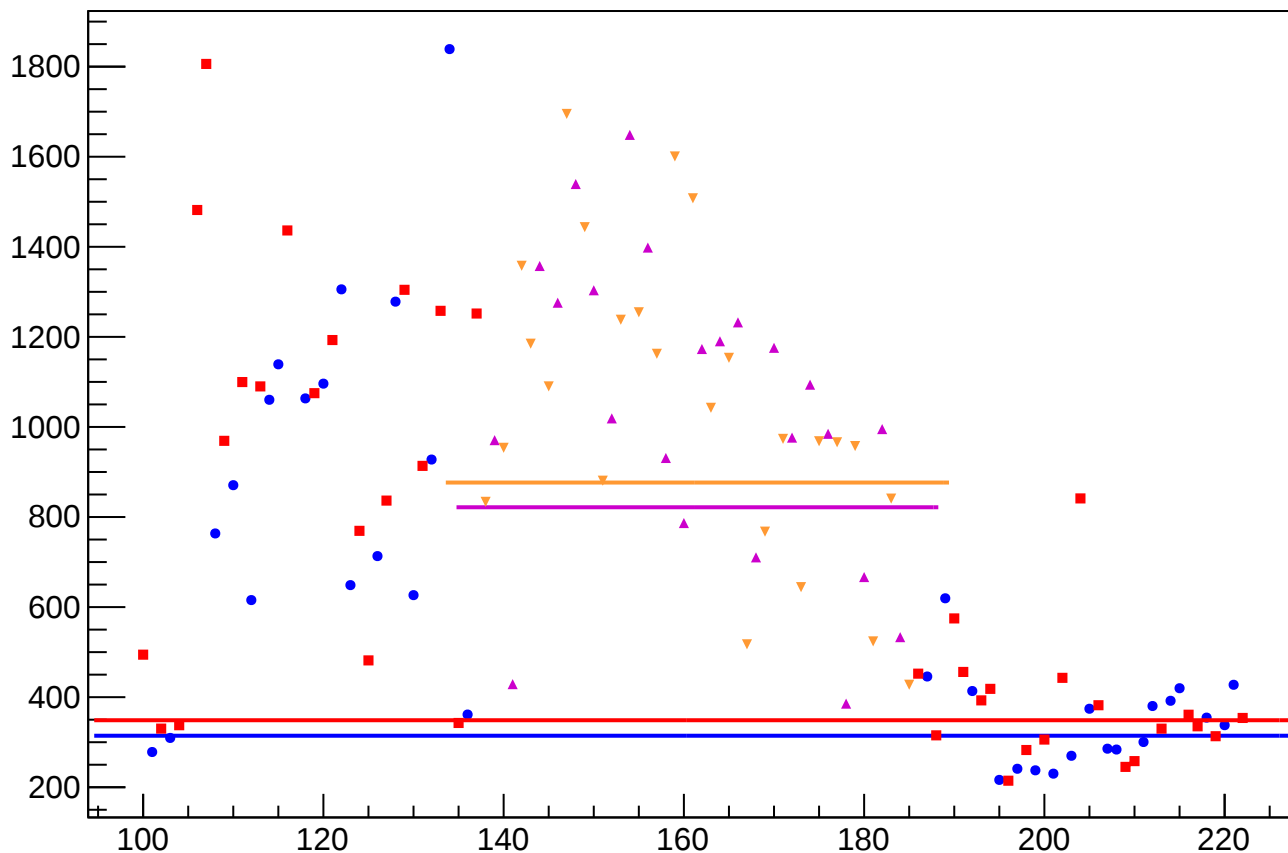
Left In: 280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

+ sign -58.578 ± 84.367 $\chi^2/\text{NDF}: 4891.3/59$

All: -977.494 ± 61.584 $\chi^2/\text{NDF}: 10086.2/120$

- sign -2025.584 ± 90.102 $\chi^2/\text{NDF}: 4941.0/60$

asym_bpm0l03WS_rms vs Slug



Right In: 314.392+/-0.064 χ^2/NDF : 4621006.2/34

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 348.795+/-0.069 χ^2/NDF : 5944368.7/37

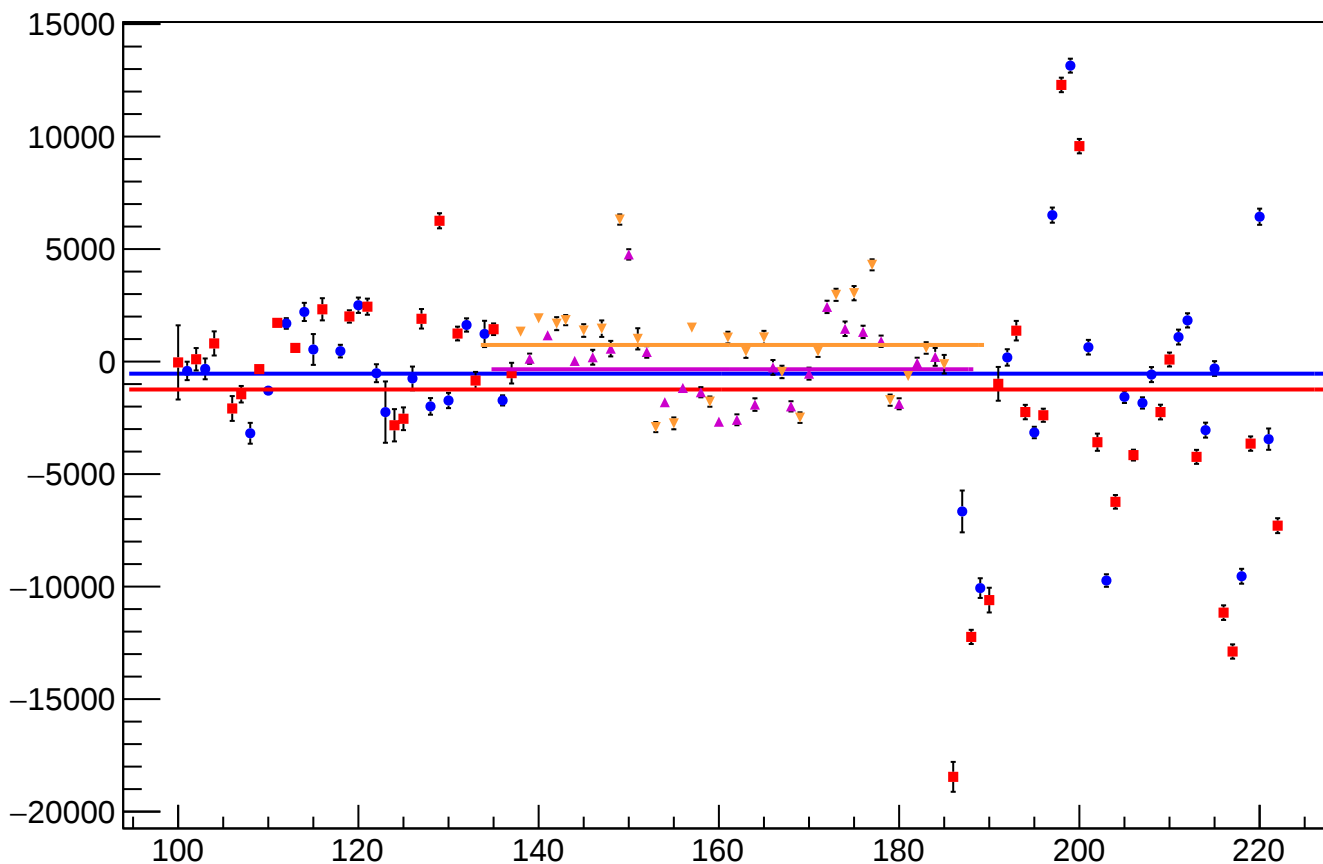
Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

+ sign 389.342+/-0.060 χ^2/NDF : 18316413.6/59

All: 403.705+/-0.044 χ^2/NDF : 35880934.7/12

- sign 420.088+/-0.064 χ^2/NDF : 17440430.0/60

asym_bpm0l04WS_mean vs Slug



Right In: -537.410 ± 56.379 $\chi^2/\text{NDF}: 5837.4/34$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: -1240.741 ± 53.916 $\chi^2/\text{NDF}: 9764.8/37$

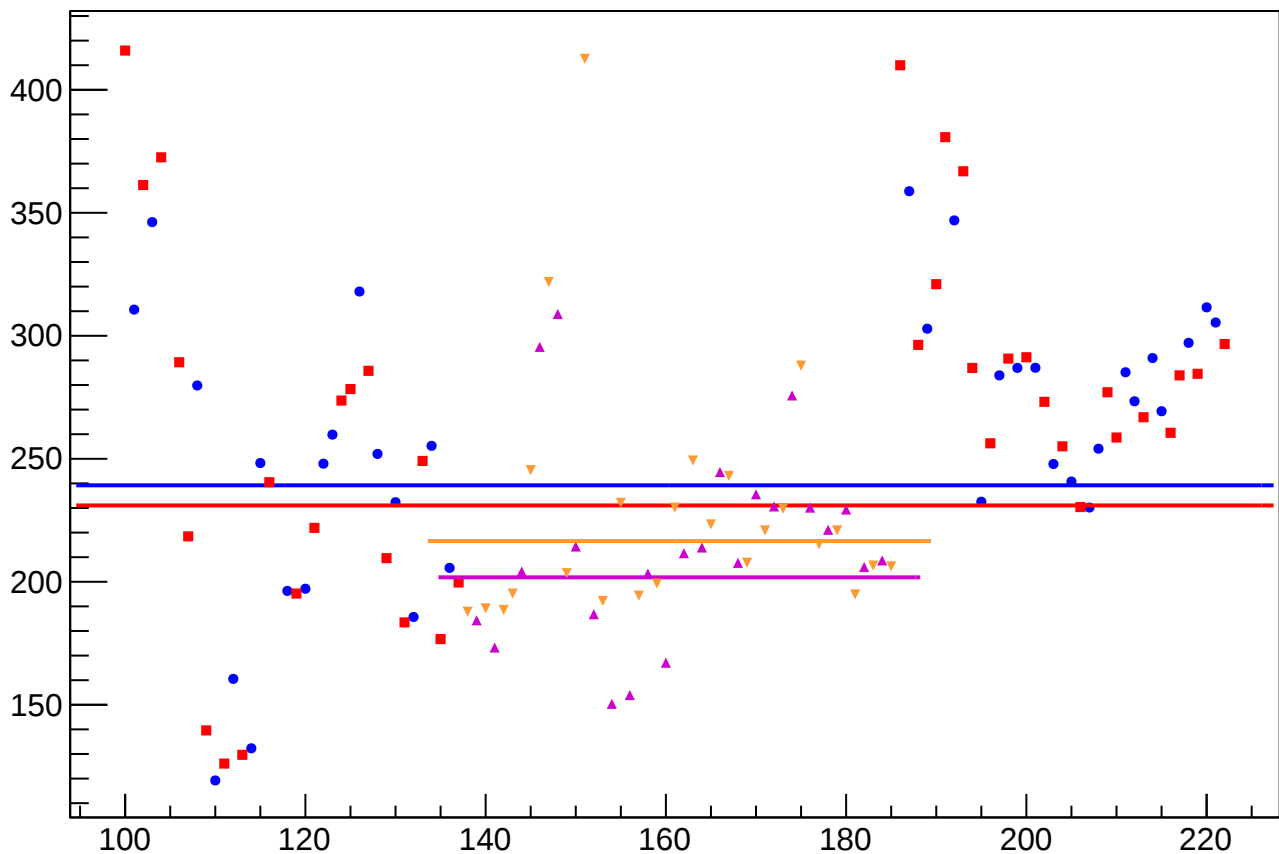
Left In: -342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

+ sign 156.492 ± 38.084 $\chi^2/\text{NDF}: 8051.3/59$

All: -318.036 ± 26.419 $\chi^2/\text{NDF}: 19519.3/120$

- sign -758.198 ± 36.679 $\chi^2/\text{NDF}: 11168.8/60$

asym_bpm0l04WS_rms vs Slug



Right In: 239.219 $\pm$ 0.040 χ^2 /NDF: 2161239.4/34

Left Out: 216.574 $\pm$ 0.037 χ^2 /NDF:886214.1/24

Right Out: 231.037 $\pm$ 0.038 χ^2 /NDF: 3190143.1/37

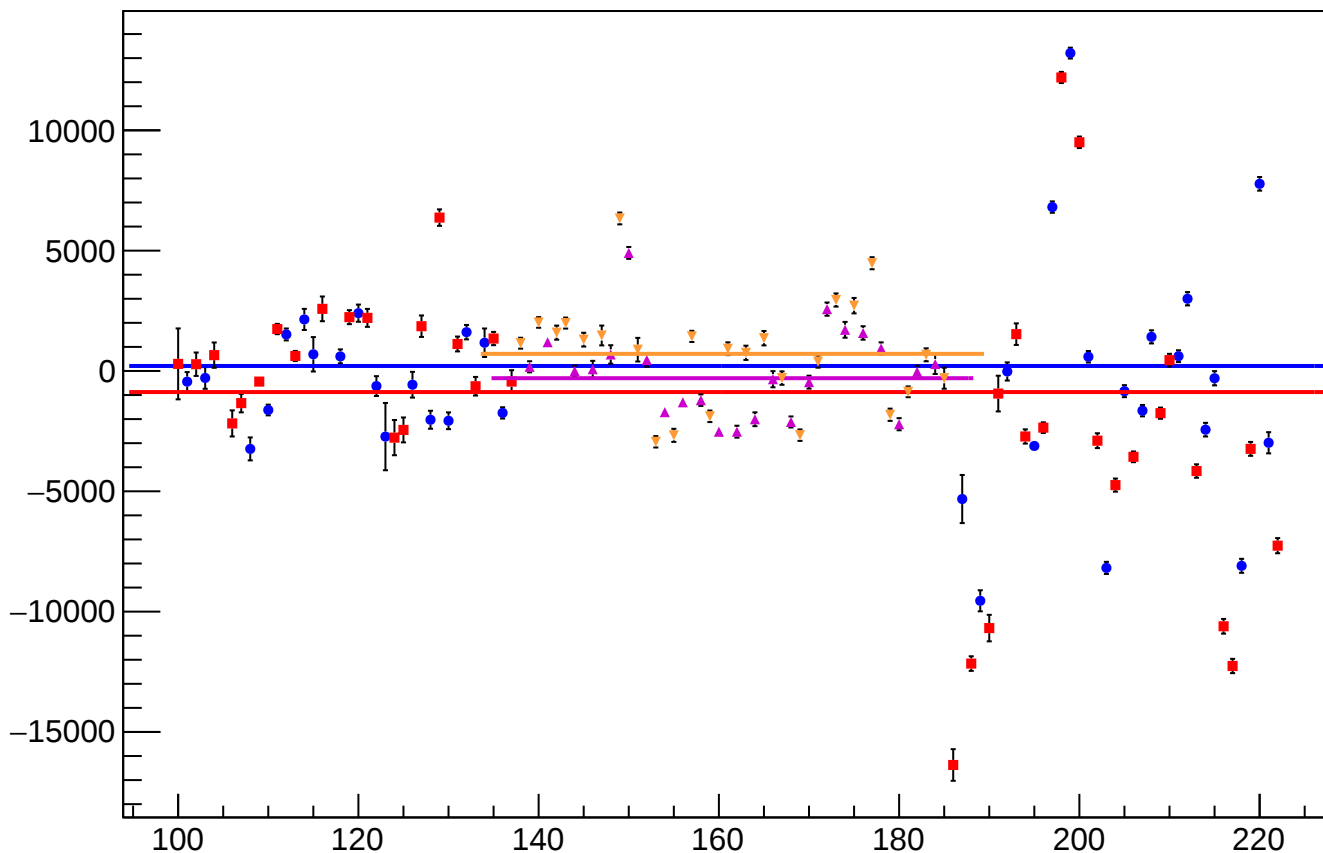
Left In: 201.805 $\pm$ 0.035 χ^2 /NDF:1087243.4/22

+ sign 226.907 $\pm$ 0.027 χ^2 /NDF: 3222876.0/59

All: 220.903 $\pm$ 0.019 χ^2 /NDF: 7911880.3/120

- sign 215.334 $\pm$ 0.026 χ^2 /NDF: 4593193.5/60

asym_bpm0l05WS_mean vs Slug



Right In: 208.032 $\pm$ 51.741 χ^2 /NDF: 8263.1/34

Left Out: 711.174 $\pm$ 53.245 χ^2 /NDF:1835.3/24

Right Out: -876.263 $\pm$ 50.770 χ^2 /NDF: 12038.7/37

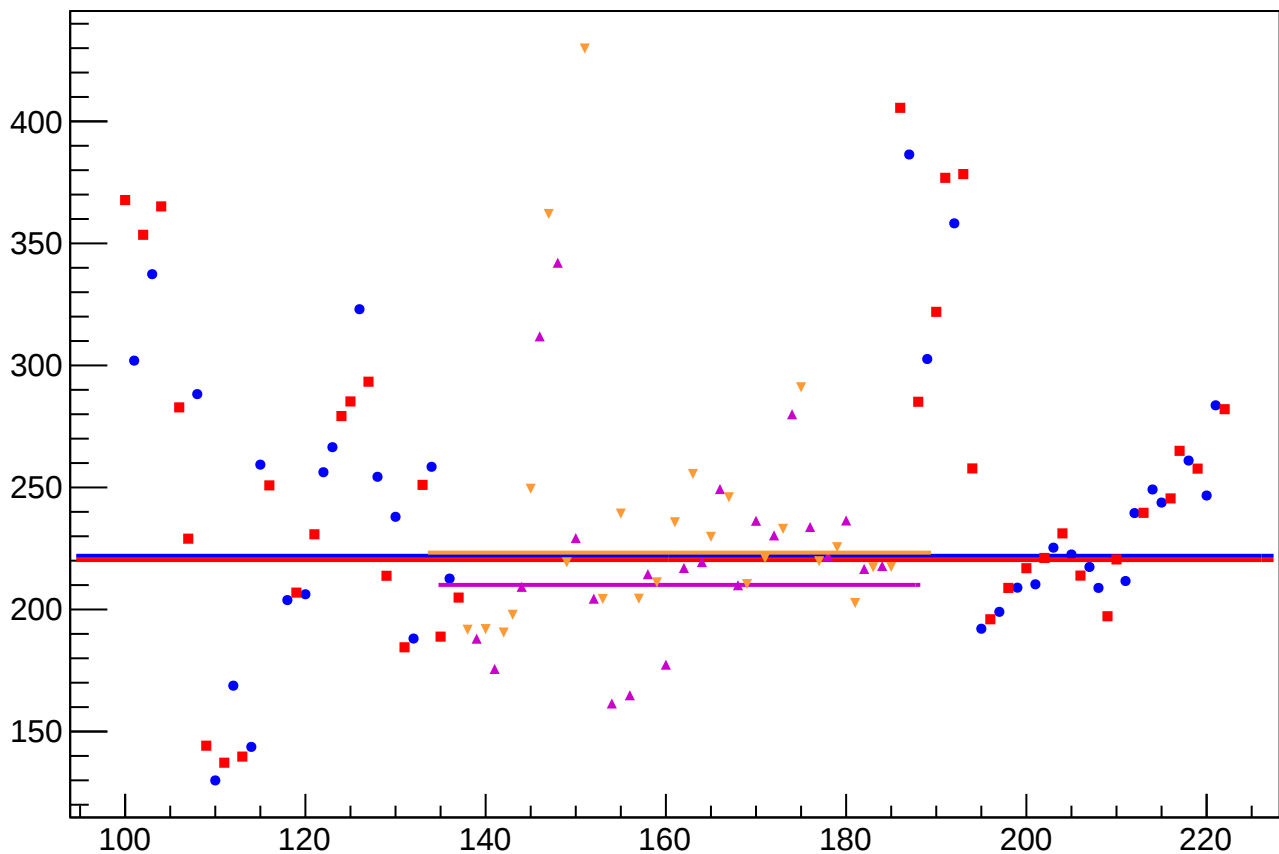
Left In: -300.516 $\pm$ 51.984 χ^2 /NDF:1208.6/22

+ sign 452.398 $\pm$ 37.107 χ^2 /NDF: 10144.4/59

All: -82.600 $\pm$ 25.956 χ^2 /NDF: 23861.5/120

- sign -595.190 $\pm$ 36.321 χ^2 /NDF: 13310.0/60

asym_bpm0l05WS_rms vs Slug



Right In: 221.992 $\pm$ 0.037 χ^2 /NDF: 1498546.1/34

Left Out: 223.296 $\pm$ 0.038 χ^2 /NDF:922768.4/24

Right Out: 220.241 $\pm$ 0.036 χ^2 /NDF: 2311613.1/37

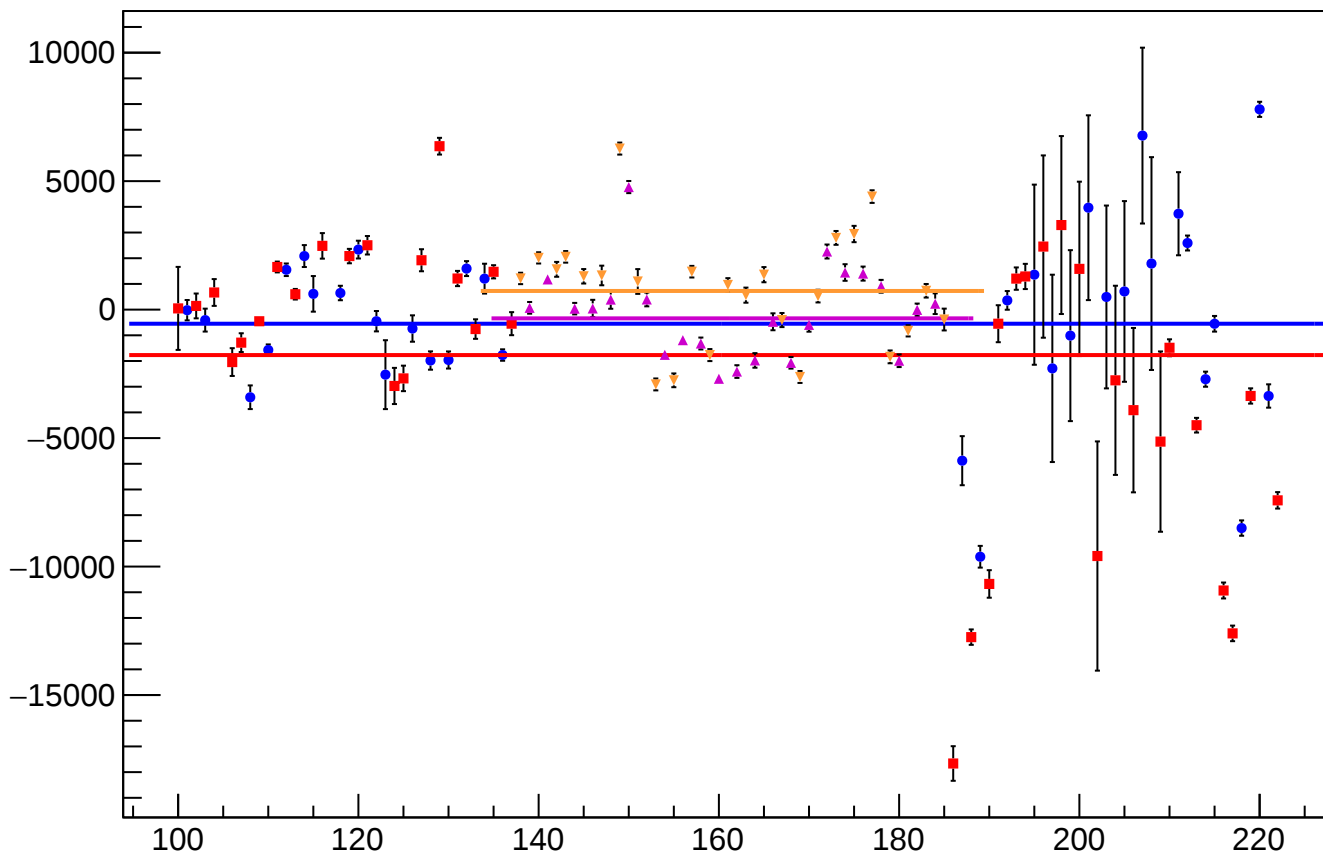
Left In: 210.080 $\pm$ 0.037 χ^2 /NDF:1015274.5/22

+ sign 222.625 $\pm$ 0.026 χ^2 /NDF: 2421932.2/59

All: 218.874 $\pm$ 0.018 χ^2 /NDF: 5827946.8/120

- sign 215.281 $\pm$ 0.026 χ^2 /NDF: 3365998.9/60

asym_bpm0l06WS_mean vs Slug



Right In: -549.186 ± 67.093 $\chi^2/\text{NDF}: 2624.6/34$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: -1769.104 ± 61.078 $\chi^2/\text{NDF}: 6715.6/37$

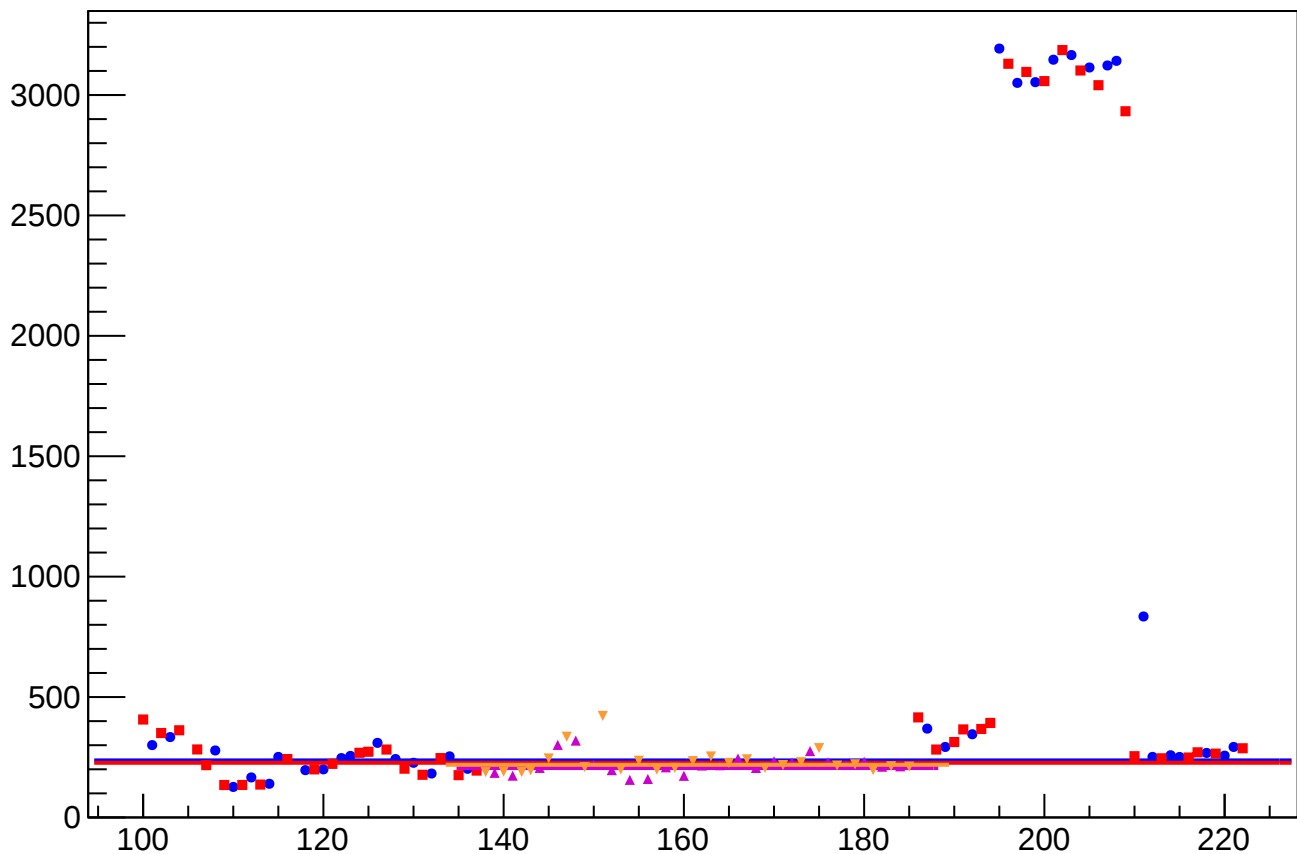
Left In: -340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

+ sign 245.560 ± 41.179 $\chi^2/\text{NDF}: 4762.4/59$

All: -370.484 ± 28.338 $\chi^2/\text{NDF}: 13428.4/120$

- sign -924.694 ± 39.058 $\chi^2/\text{NDF}: 8240.8/60$

asym_bpm0l06WS_rms vs Slug



Right In: 236.871 $\pm$ 0.047 χ^2 /NDF: 12240993.0/34

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF: 896914.5/24

Right Out: 227.064 $\pm$ 0.043 χ^2 /NDF: 11676216.5/37

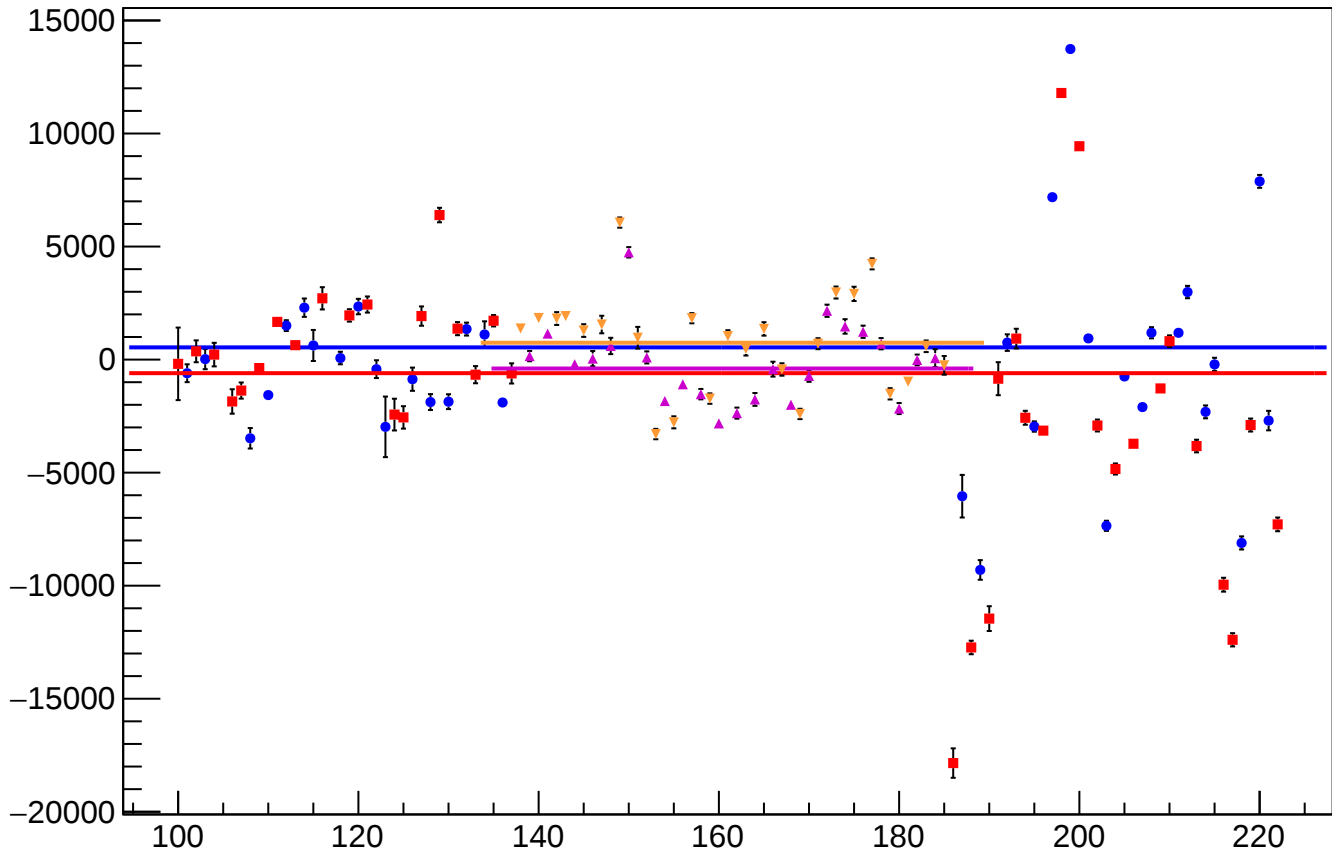
Left In: 205.249 $\pm$ 0.036 χ^2 /NDF: 997168.8/22

+ sign 225.587 $\pm$ 0.029 χ^2 /NDF: 13228655.8/59

All: 219.577 $\pm$ 0.020 χ^2 /NDF: 26133791.2/12

- sign 214.170 $\pm$ 0.028 χ^2 /NDF: 12824194.2/60

asym_bpm0l07WS_mean vs Slug



Right In: 540.092 $\pm$ 48.599 χ^2 /NDF: 10258.3/34

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -600.433 $\pm$ 47.804 χ^2 /NDF: 13969.9/37

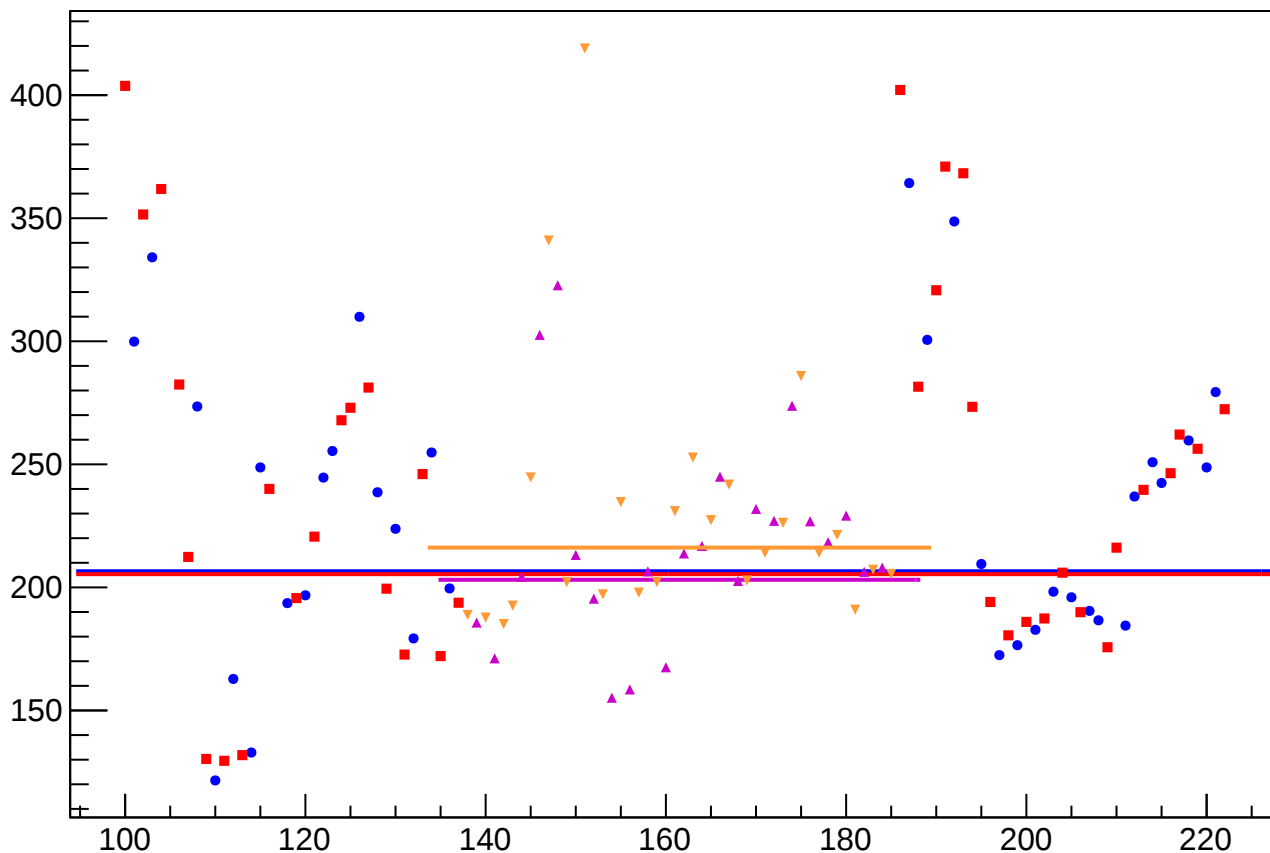
Left In: -394.379 $\pm$ 50.311 χ^2 /NDF:1236.4/22

+ sign 637.091 $\pm$ 35.375 χ^2 /NDF: 12208.9/59

All: 55.495 $\pm$ 24.756 χ^2 /NDF: 27953.7/120

- sign -502.667 $\pm$ 34.655 χ^2 /NDF: 15215.1/60

asym_bpm0l07WS_rms vs Slug



Right In: 206.561 $\pm$ 0.034 χ^2 /NDF: 1856137.0/34

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 205.377 $\pm$ 0.034 χ^2 /NDF: 2818779.7/37

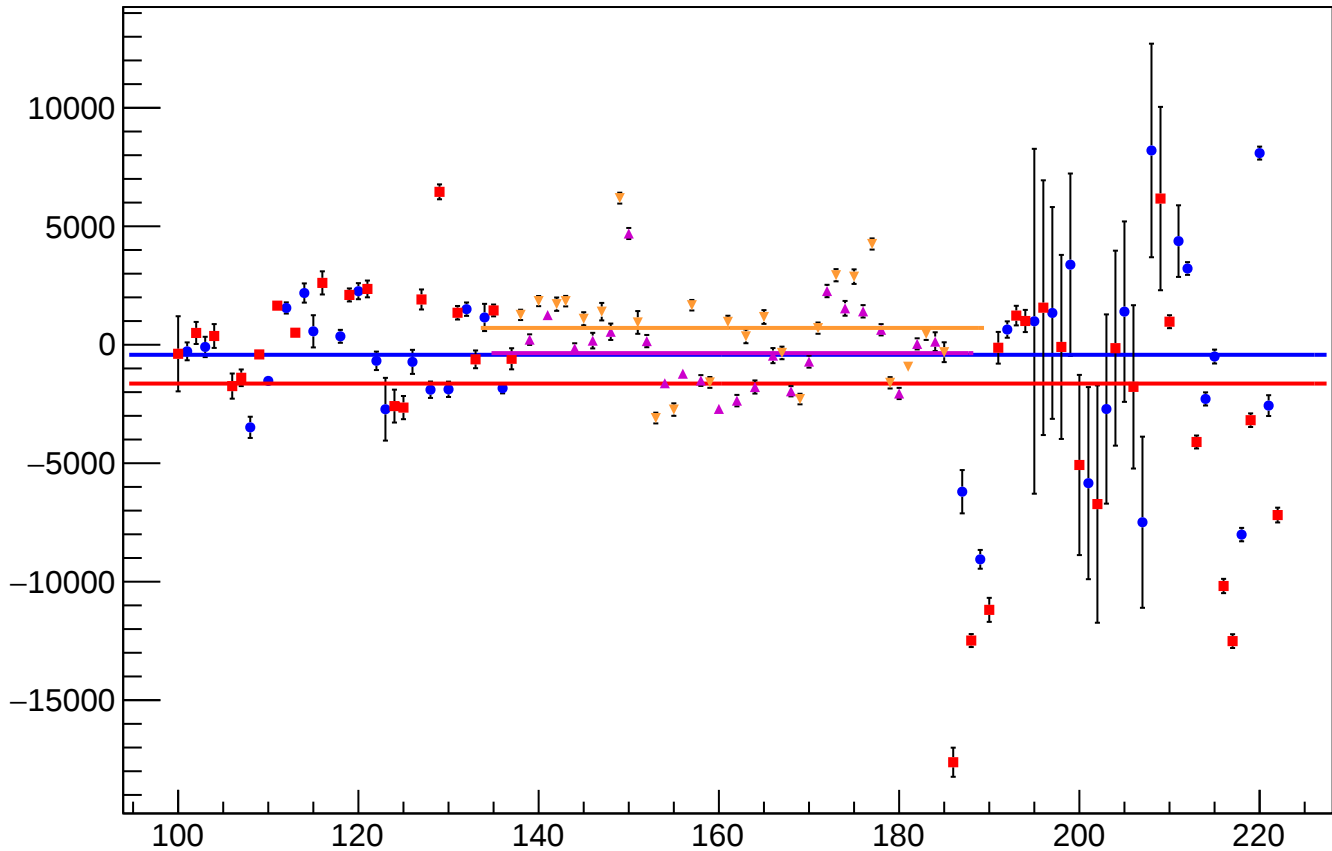
Left In: 203.101 $\pm$ 0.036 χ^2 /NDF: 1038013.0/22

+ sign 211.082 $\pm$ 0.025 χ^2 /NDF: 2839007.7/59

All: 207.620 $\pm$ 0.018 χ^2 /NDF: 6735499.1/120

- sign 204.297 $\pm$ 0.025 χ^2 /NDF: 3858944.8/60

asym_bpm0l08WS_mean vs Slug



Right In: -423.863 ± 64.411 χ^2/NDF : 2878.4/34

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: -1638.187 ± 58.323 χ^2/NDF : 7281.0/37

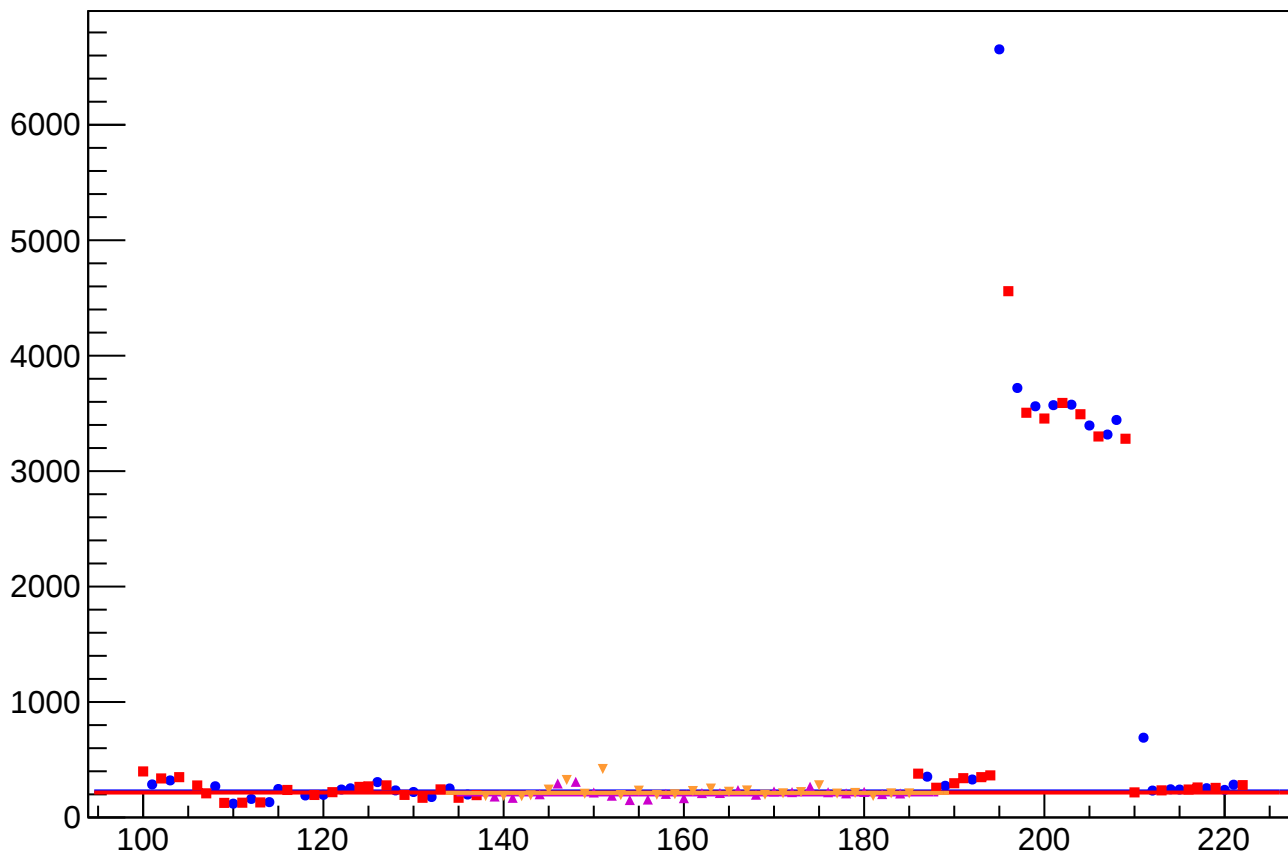
Left In: -352.432 ± 49.316 χ^2/NDF : 1233.1/22

+ sign 275.845 ± 39.863 χ^2/NDF : 5002.0/59

All: -339.409 ± 27.375 χ^2/NDF : 14250.3/120

- sign -888.472 ± 37.658 χ^2/NDF : 8797.5/60

asym_bpm0l08WS_rms vs Slug



Right In: 225.703 $\pm$ 0.046 χ^2 /NDF: 12596055.1/34

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 215.769 $\pm$ 0.041 χ^2 /NDF: 11945120.6/37

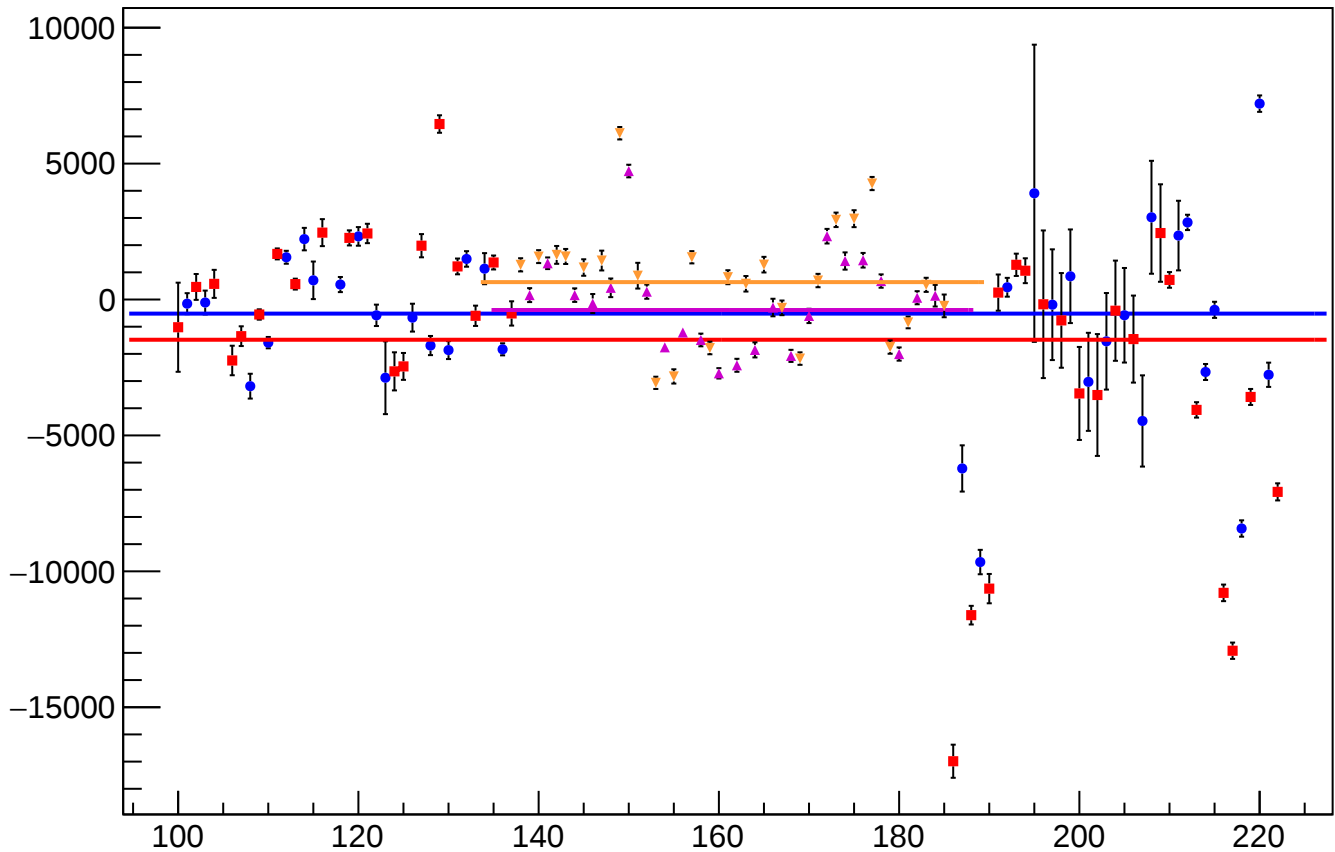
Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

+ sign 217.692 $\pm$ 0.028 χ^2 /NDF: 13562424.8/59

All: 211.553 $\pm$ 0.019 χ^2 /NDF: 26678024.4/12

- sign 206.074 $\pm$ 0.027 χ^2 /NDF: 13025831.7/60

asym_bpm0l09WS_mean vs Slug



Right In: -518.765 ± 65.916 χ^2/NDF : 2439.3/34

Left Out: 639.995 ± 52.708 χ^2/NDF : 1859.2/24

Right Out: -1480.034 ± 59.835 χ^2/NDF : 6461.9/37

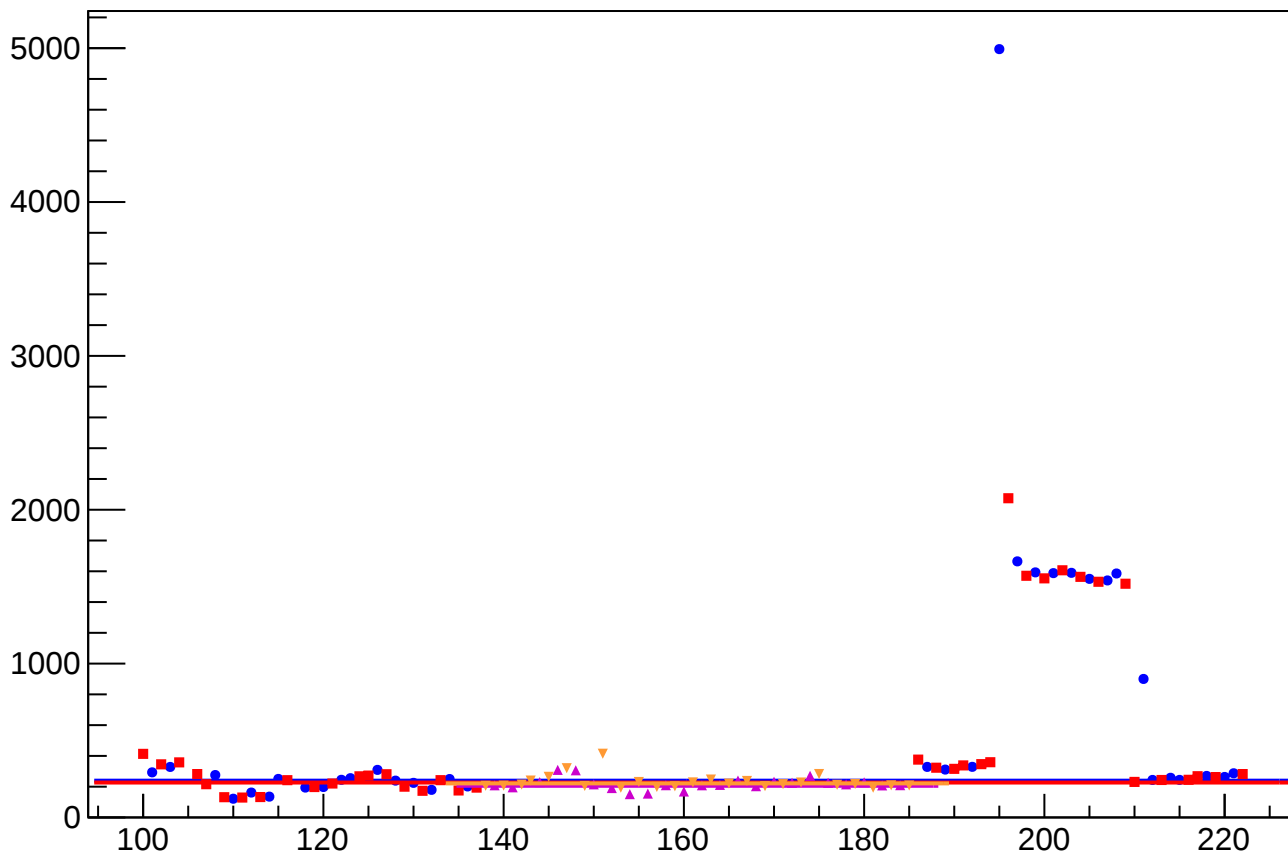
Left In: -386.248 ± 50.994 χ^2/NDF : 1238.0/22

+ sign 188.051 ± 41.166 χ^2/NDF : 4487.0/59

All: -359.622 ± 28.239 χ^2/NDF : 12714.8/120

- sign -846.435 ± 38.811 χ^2/NDF : 7893.5/60

asym_bpm0l09WS_rms vs Slug



Right In: 239.050+/-0.047 χ^2/NDF : 11359361.9/34

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 226.945+/-0.042 χ^2/NDF : 10332559.1/37

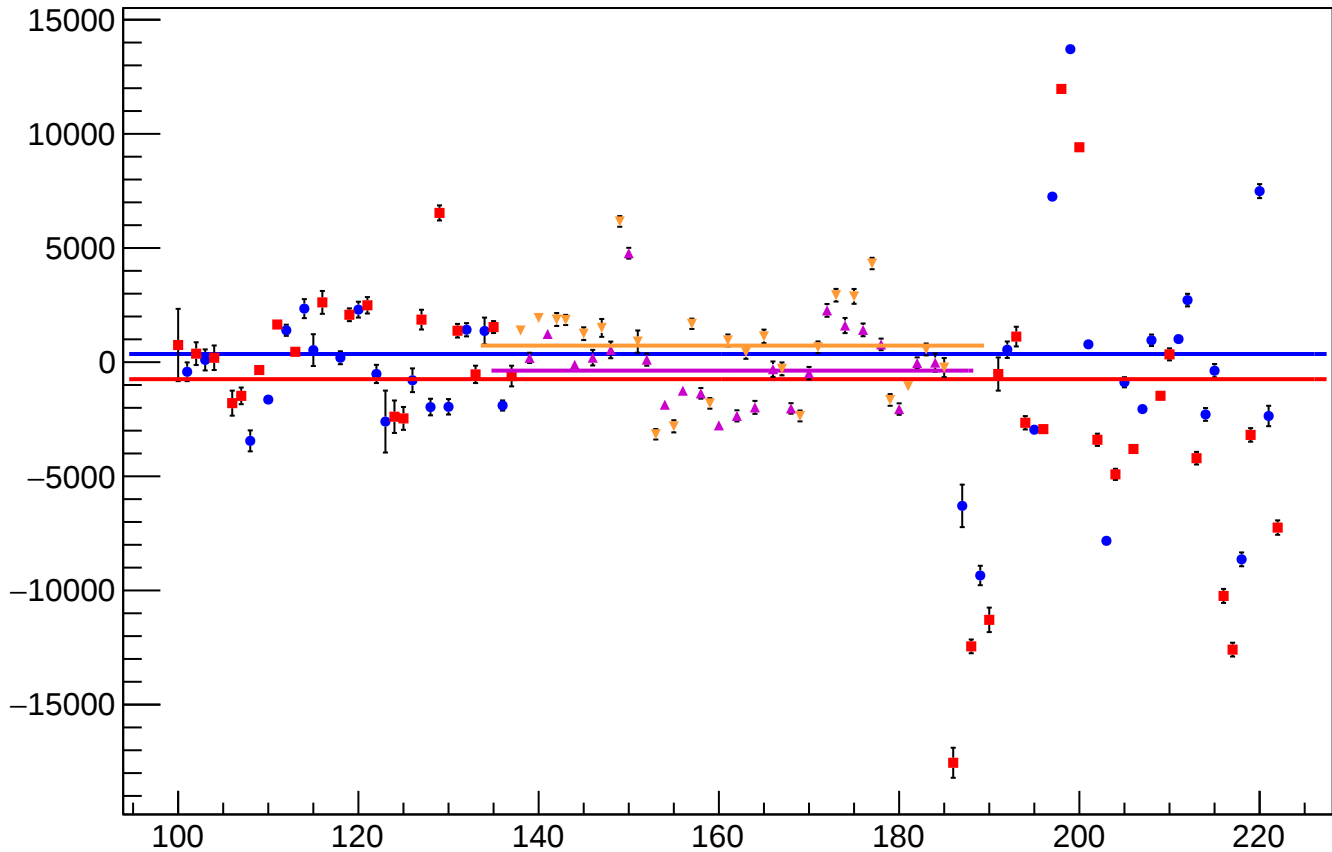
Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

+ sign 228.283+/-0.029 χ^2/NDF : 12224680.2/59

All: 221.091+/-0.020 χ^2/NDF : 23812083.7/12

- sign 214.698+/-0.027 χ^2/NDF : 11472104.8/60

asym_bpm0l10WS_mean vs Slug



Right In: 357.577 ± 49.169 χ^2/NDF : 10080.6/34

Left Out: 725.250 ± 52.307 χ^2/NDF : 1883.1/24

Right Out: -744.604 ± 48.566 χ^2/NDF : 13546.3/37

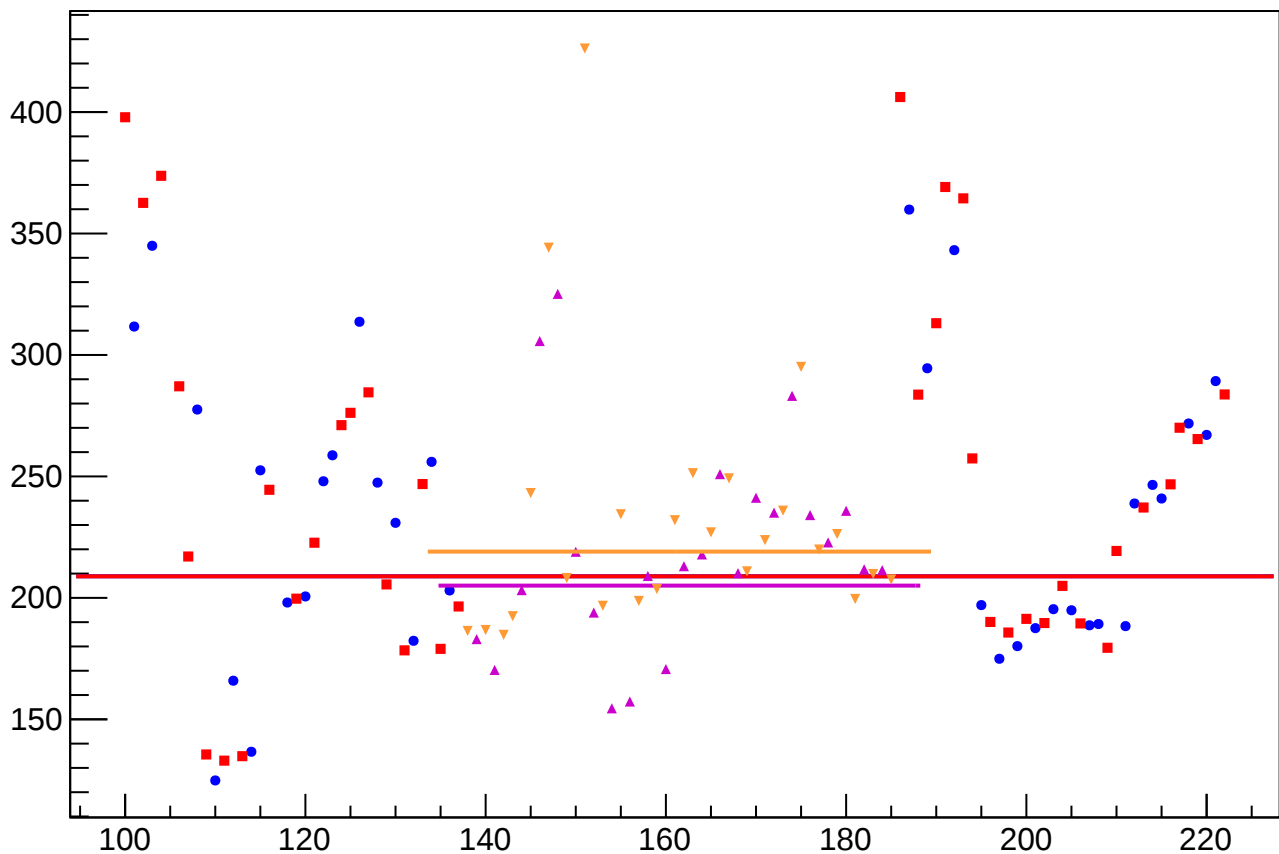
Left In: -370.408 ± 50.884 χ^2/NDF : 1223.2/22

+ sign 530.056 ± 35.826 χ^2/NDF : 11990.0/59

All: -28.798 ± 25.084 χ^2/NDF : 27265.1/120

- sign -566.224 ± 35.132 χ^2/NDF : 14797.8/60

asym_bpm0l10WS_rms vs Slug



Right In: 208.897 $\pm$ 0.035 χ^2/NDF : 1850606.1/34

Left Out: 219.049 $\pm$ 0.037 χ^2/NDF : 975564.4/24

Right Out: 208.867 $\pm$ 0.034 χ^2/NDF : 2686115.2/37

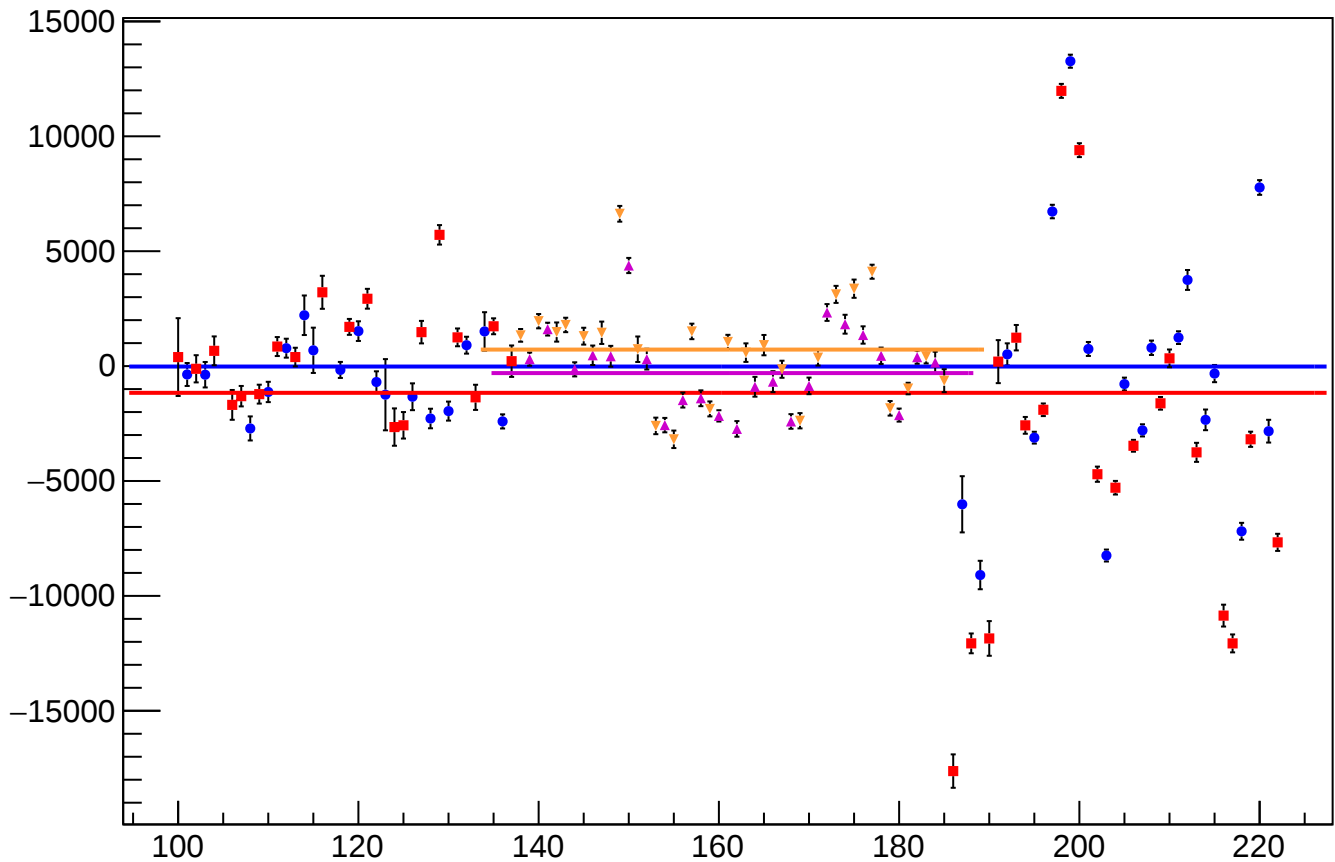
Left In: 205.046 $\pm$ 0.036 χ^2/NDF : 1144197.1/22

+ sign 213.659 $\pm$ 0.025 χ^2/NDF : 2866159.1/59

All: 210.288 $\pm$ 0.018 χ^2/NDF : 6737117.0/120

- sign 207.046 $\pm$ 0.025 χ^2/NDF : 3836212.7/60

asym_bpm0r03WS_mean vs Slug



Right In: -19.335 ± 64.866 χ^2/NDF : 5533.8/34

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: -1163.340 ± 66.534 χ^2/NDF : 7126.9/37

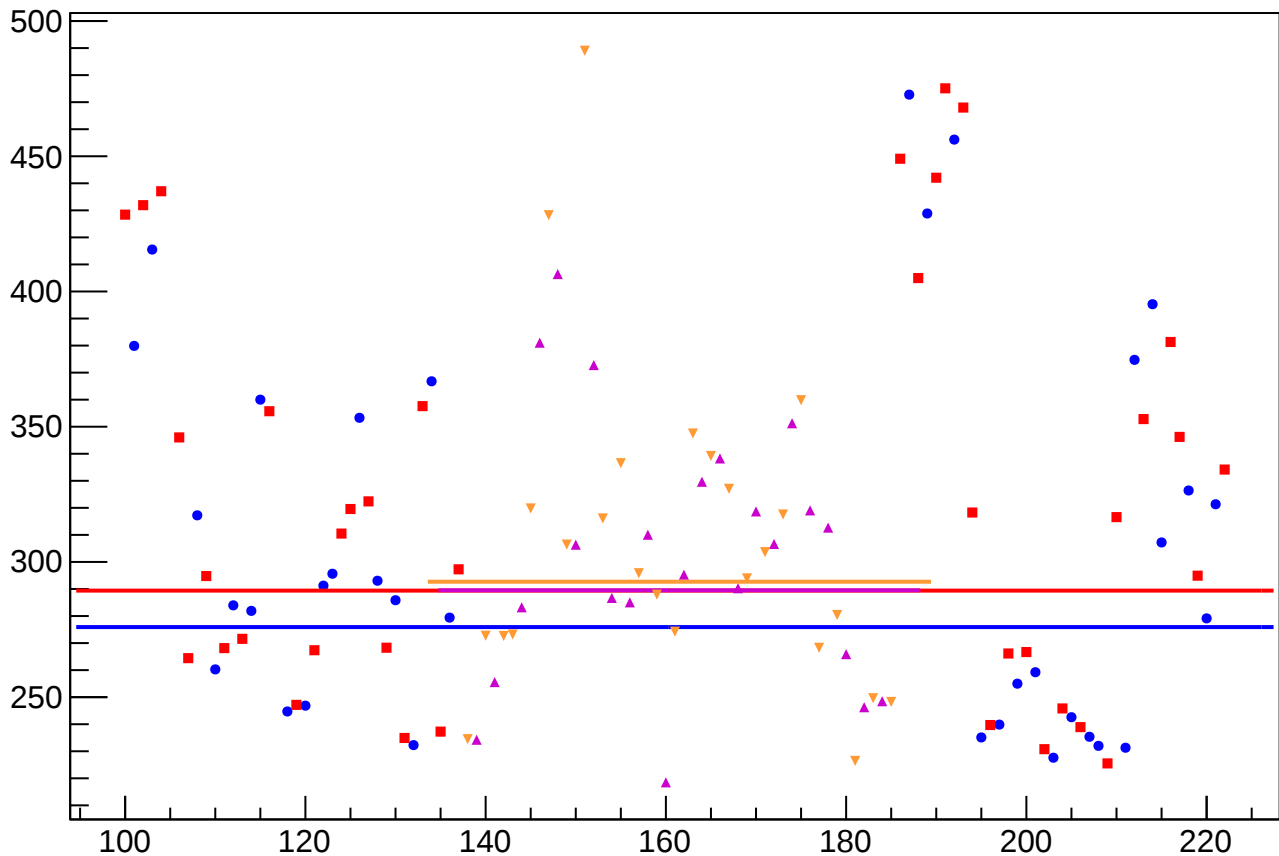
Left In: -304.161 ± 70.958 χ^2/NDF : 643.5/22

+ sign 323.732 ± 47.453 χ^2/NDF : 6612.5/59

All: -206.580 ± 33.930 χ^2/NDF : 14716.5/120

- sign -761.362 ± 48.535 χ^2/NDF : 7848.4/60

asym_bpm0r03WS_rms vs Slug



Right In: 275.914+/-0.046 χ^2/NDF : 1465355.2/34

Left Out: 292.686+/-0.049 χ^2/NDF : 925193.6/24

Right Out: 289.403+/-0.047 χ^2/NDF : 1663386.8/37

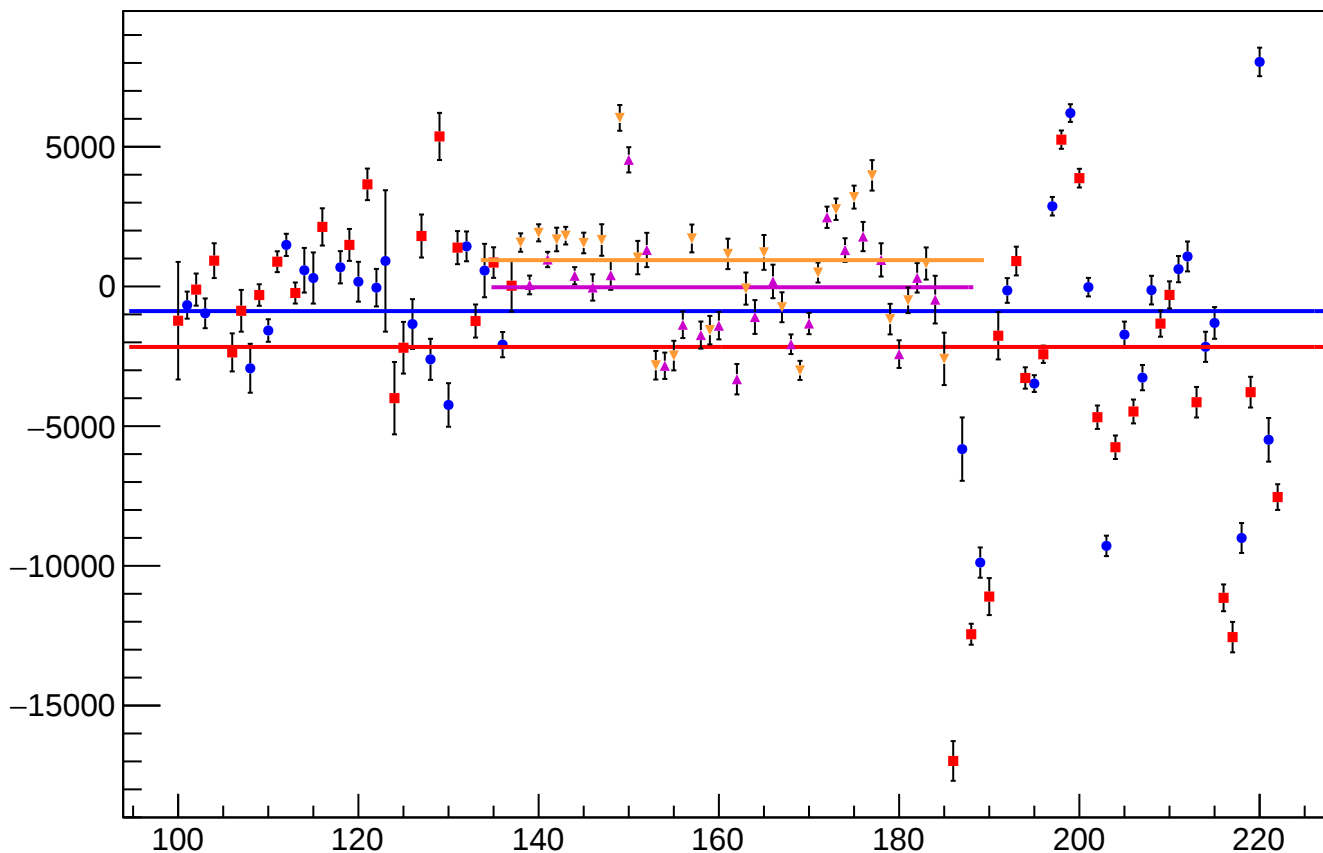
Left In: 289.522+/-0.050 χ^2/NDF : 777901.0/22

+ sign 283.710+/-0.034 χ^2/NDF : 2452702.5/59

All: 286.519+/-0.024 χ^2/NDF : 4908337.1/120

- sign 289.458+/-0.034 χ^2/NDF : 2441290.8/60

asym_bpm0r05WS_mean vs Slug



Right In: -881.987 ± 84.906 $\chi^2/\text{NDF}: 2281.2/34$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: -2164.484 ± 81.389 $\chi^2/\text{NDF}: 3804.6/37$

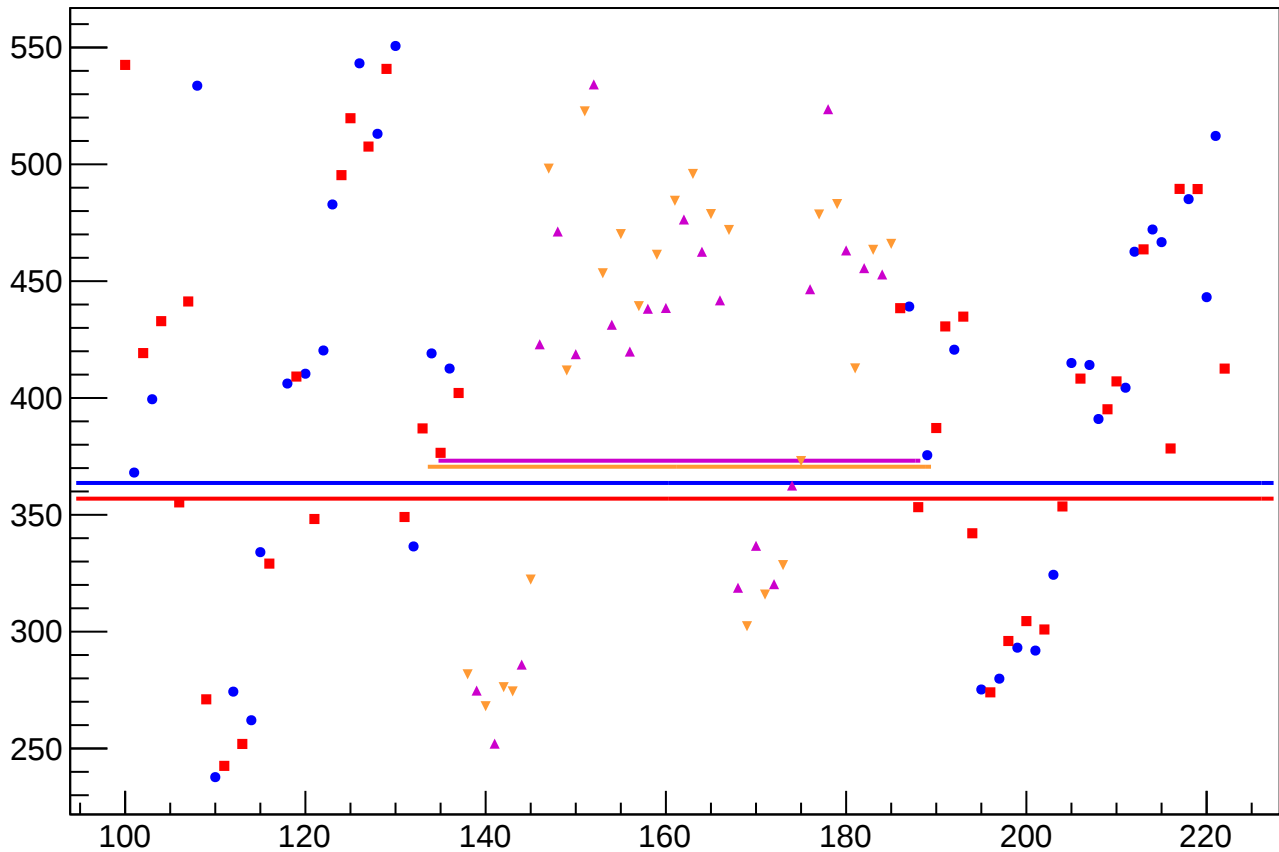
Left In: -27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

+ sign -14.312 ± 61.473 $\chi^2/\text{NDF}: 3045.2/59$

All: -626.401 ± 43.319 $\chi^2/\text{NDF}: 7710.7/120$

- sign -1230.181 ± 61.055 $\chi^2/\text{NDF}: 4468.5/60$

asym_bpm0r05WS_rms vs Slug



Right In: 363.635+/-0.060 χ^2/NDF : 1835534.9/34

Left Out: 370.580+/-0.063 χ^2/NDF : 1878118.9/24

Right Out: 356.923+/-0.058 χ^2/NDF : 1626093.9/37

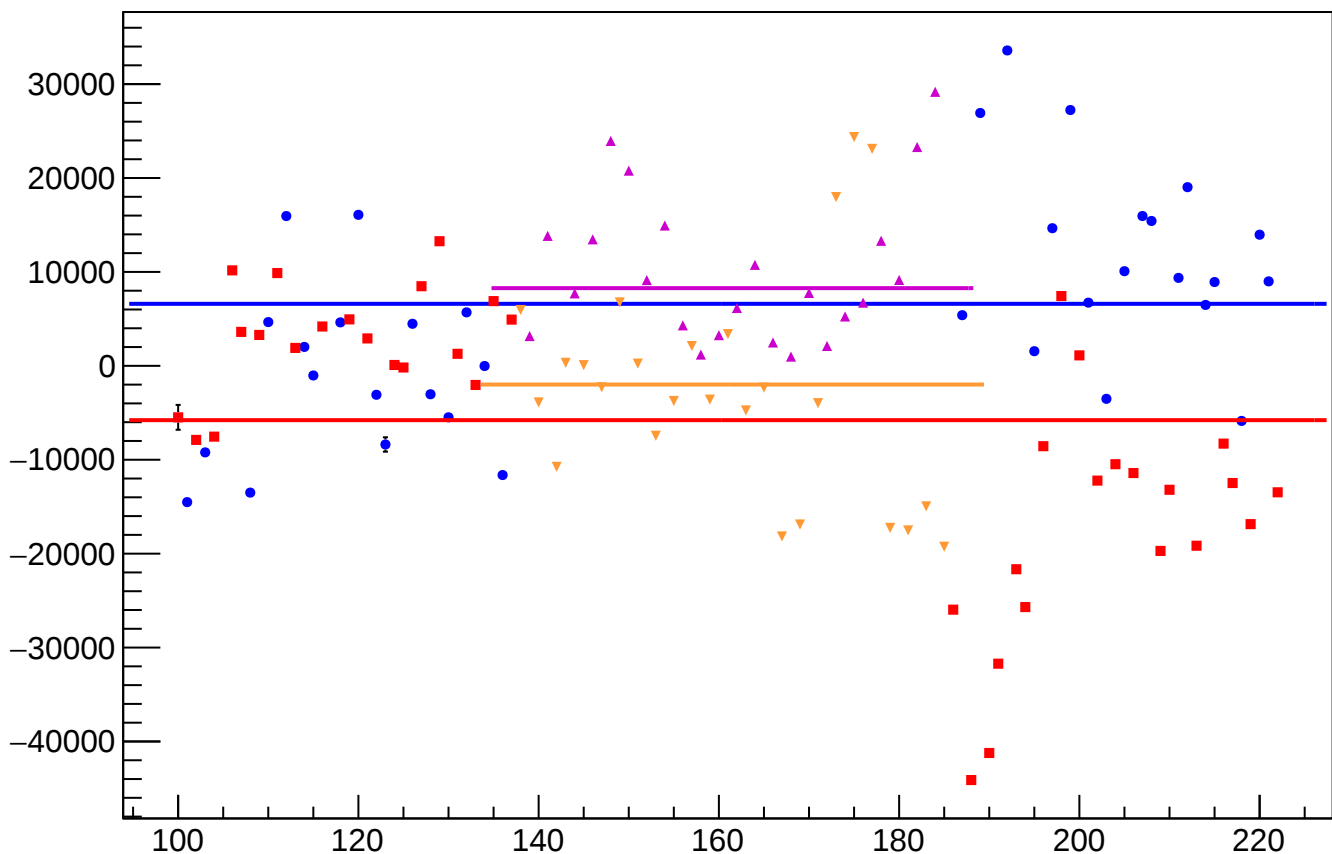
Left In: 373.161+/-0.065 χ^2/NDF : 1636244.2/22

+ sign 366.939+/-0.043 χ^2/NDF : 3720019.4/59

All: 365.471+/-0.031 χ^2/NDF : 7019433.1/120

- sign 364.023+/-0.043 χ^2/NDF : 3297147.6/60

asym_bpm0i02WS_mean vs Slug



Right In: 6603.746+/-38.496 χ^2/NDF : 96972.3/34

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -5785.090+/-37.164 χ^2/NDF : 147766.2/37

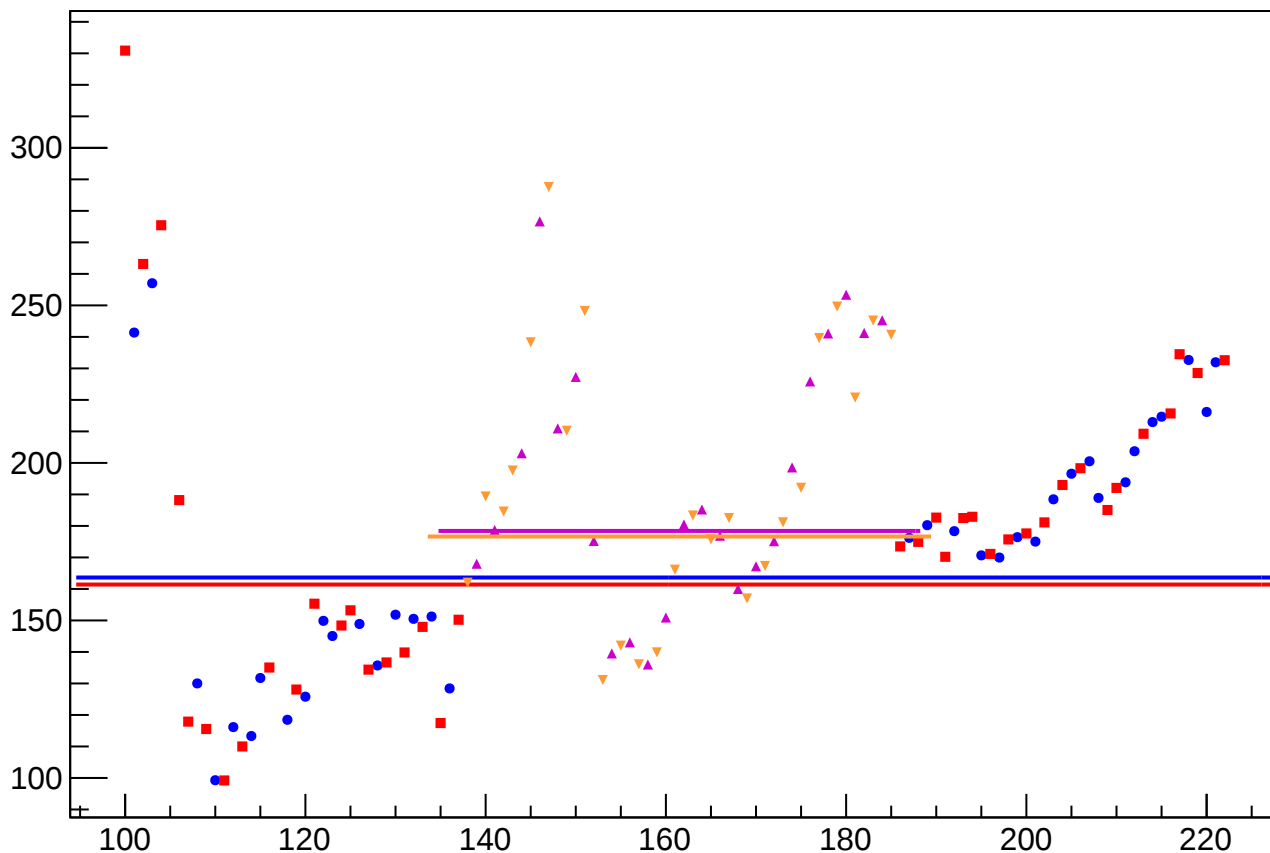
Left In: 8273.228+/-44.301 χ^2/NDF : 22870.2/22

+ sign 2722.542+/-28.509 χ^2/NDF : 183250.9/59

All: 1370.421+/-20.146 χ^2/NDF : 417486.0/12

- sign 21.816+/-28.472 χ^2/NDF : 229742.3/60

asym_bpm0i02WS_rms vs Slug



Right In: 163.628 $\pm$ 0.027 χ^2 /NDF: 1948010.5/34

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 161.398 $\pm$ 0.026 χ^2 /NDF: 2298843.7/37

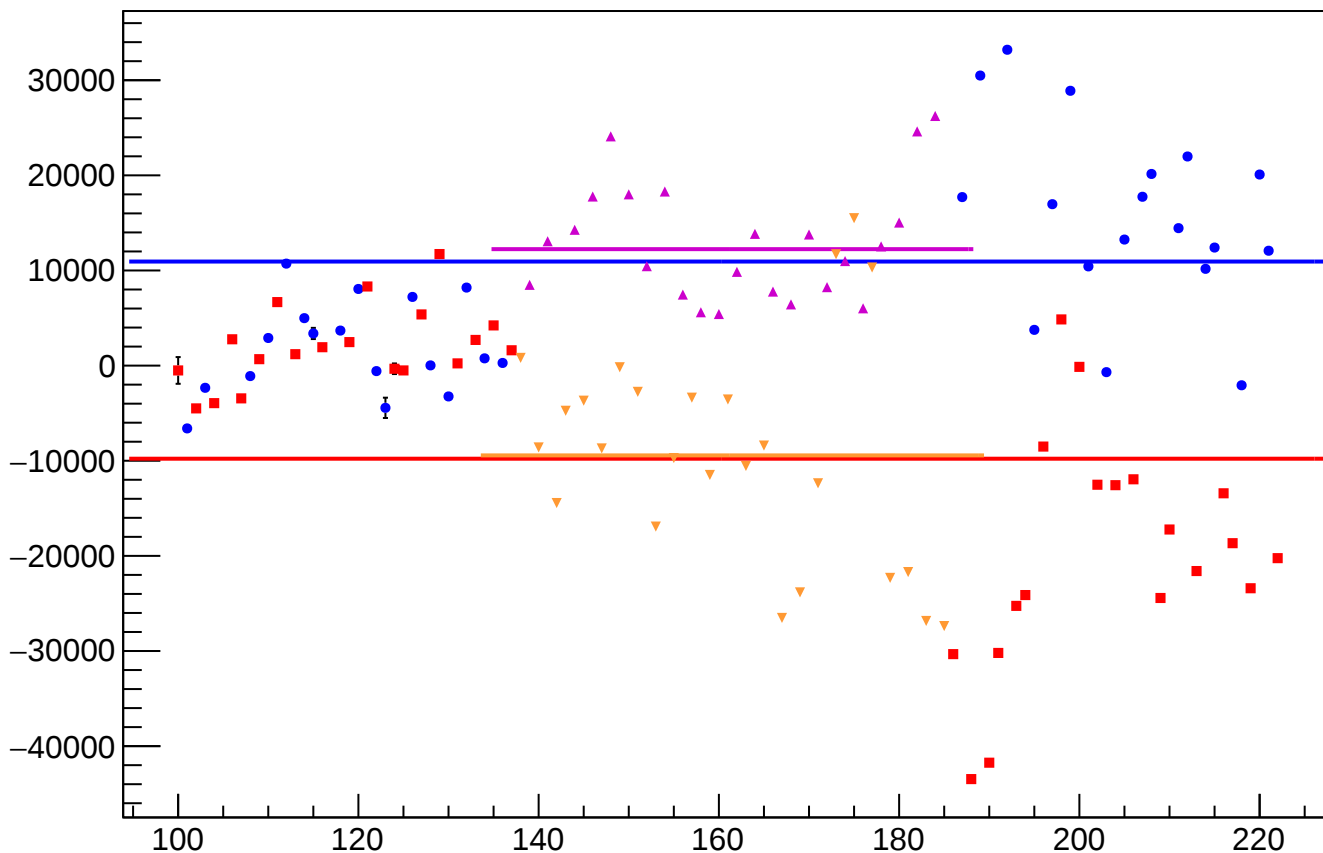
Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

+ sign 169.504 $\pm$ 0.020 χ^2 /NDF: 3602244.0/59

All: 168.964 $\pm$ 0.014 χ^2 /NDF: 7369433.4/120

- sign 168.426 $\pm$ 0.020 χ^2 /NDF: 3765758.3/60

asym_bpm0i02aWS_mean vs Slug



Right In: 10939.118 $\pm$ 42.065 χ^2 /NDF: 58975.7/34

Left Out: -9437.408 $\pm$ 45.534 χ^2 /NDF: 62220.4/24

Right Out: -9785.825 $\pm$ 40.741 χ^2 /NDF: 122111.8/37

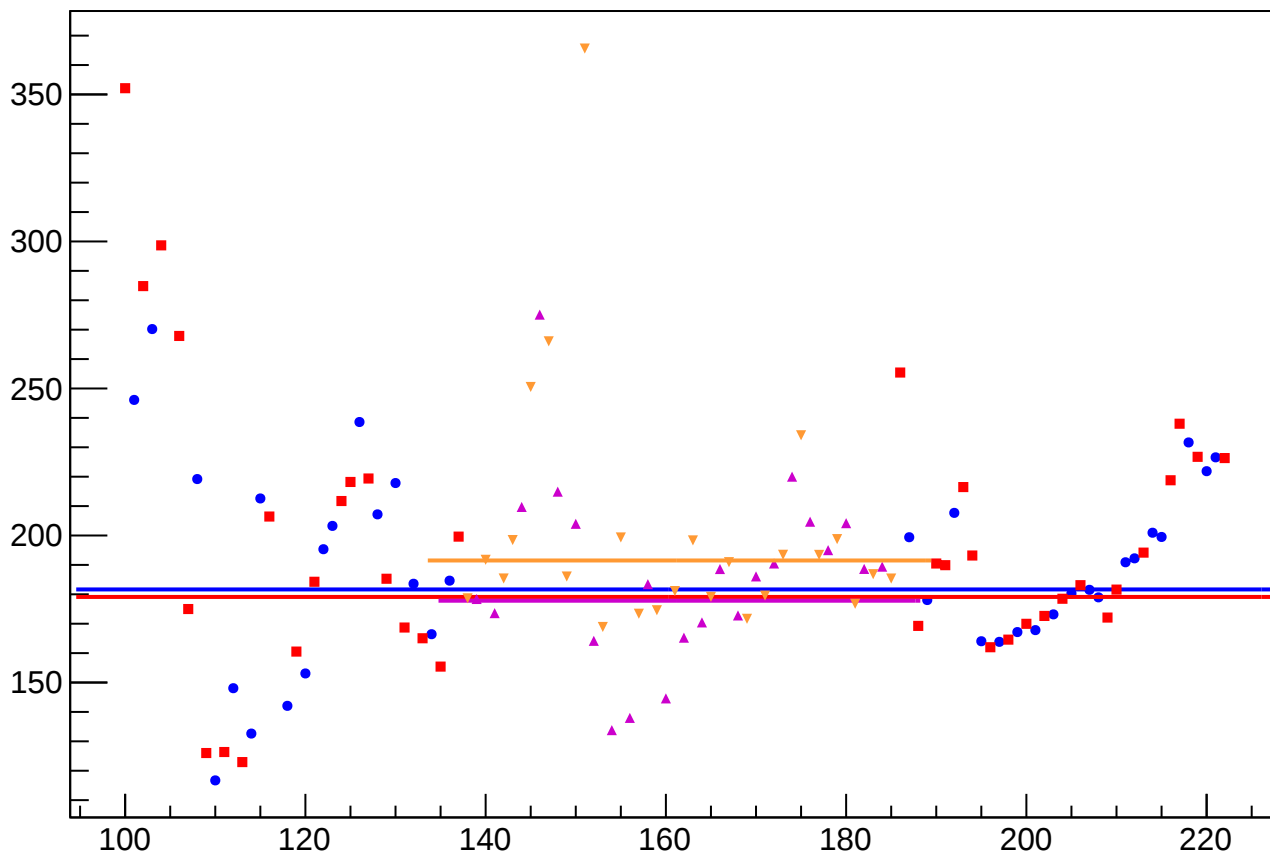
Left In: 12242.226 $\pm$ 43.944 χ^2 /NDF: 16615.8/22

+ sign 1556.662 $\pm$ 30.898 χ^2 /NDF: 229242.6/59

All: 956.921 $\pm$ 21.478 χ^2 /NDF: 503826.1/120

- sign 396.177 $\pm$ 29.877 χ^2 /NDF: 273854.5/60

asym_bpm0i02aWS_rms vs Slug



Right In: 181.658 $\pm$ 0.030 χ^2 /NDF: 988280.1/34

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 179.105 $\pm$ 0.029 χ^2 /NDF: 1460773.2/37

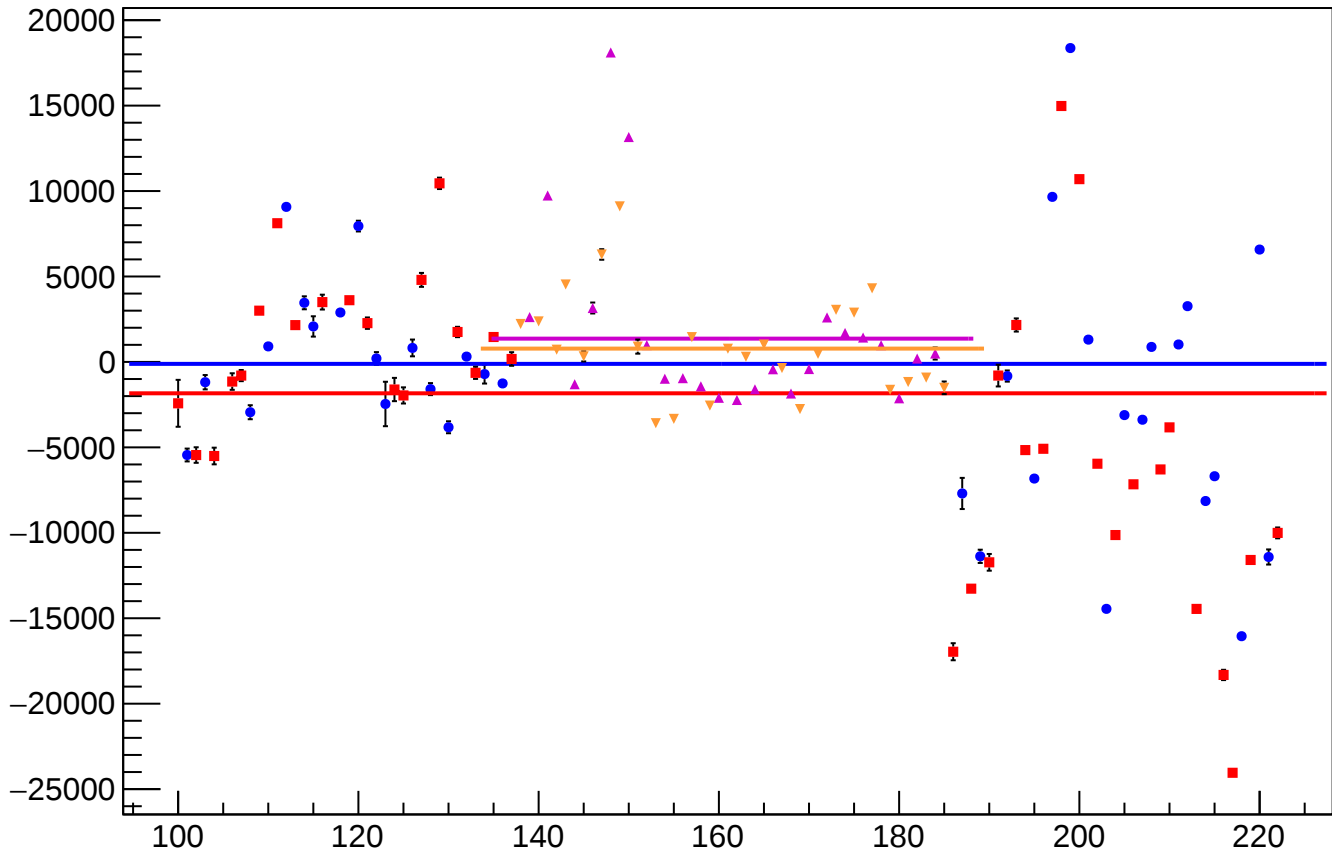
Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

+ sign 186.193 $\pm$ 0.022 χ^2 /NDF: 1766019.8/59

All: 182.223 $\pm$ 0.015 χ^2 /NDF: 4154080.8/120

- sign 178.512 $\pm$ 0.021 χ^2 /NDF: 2324184.6/60

asym_bpm0i05WS_mean vs Slug



Right In: -113.757 ± 47.146 χ^2/NDF : 26726.9/34

Left Out: 779.983 ± 47.457 χ^2/NDF : 4260.8/24

Right Out: -1836.360 ± 45.922 χ^2/NDF : 36441.2/37

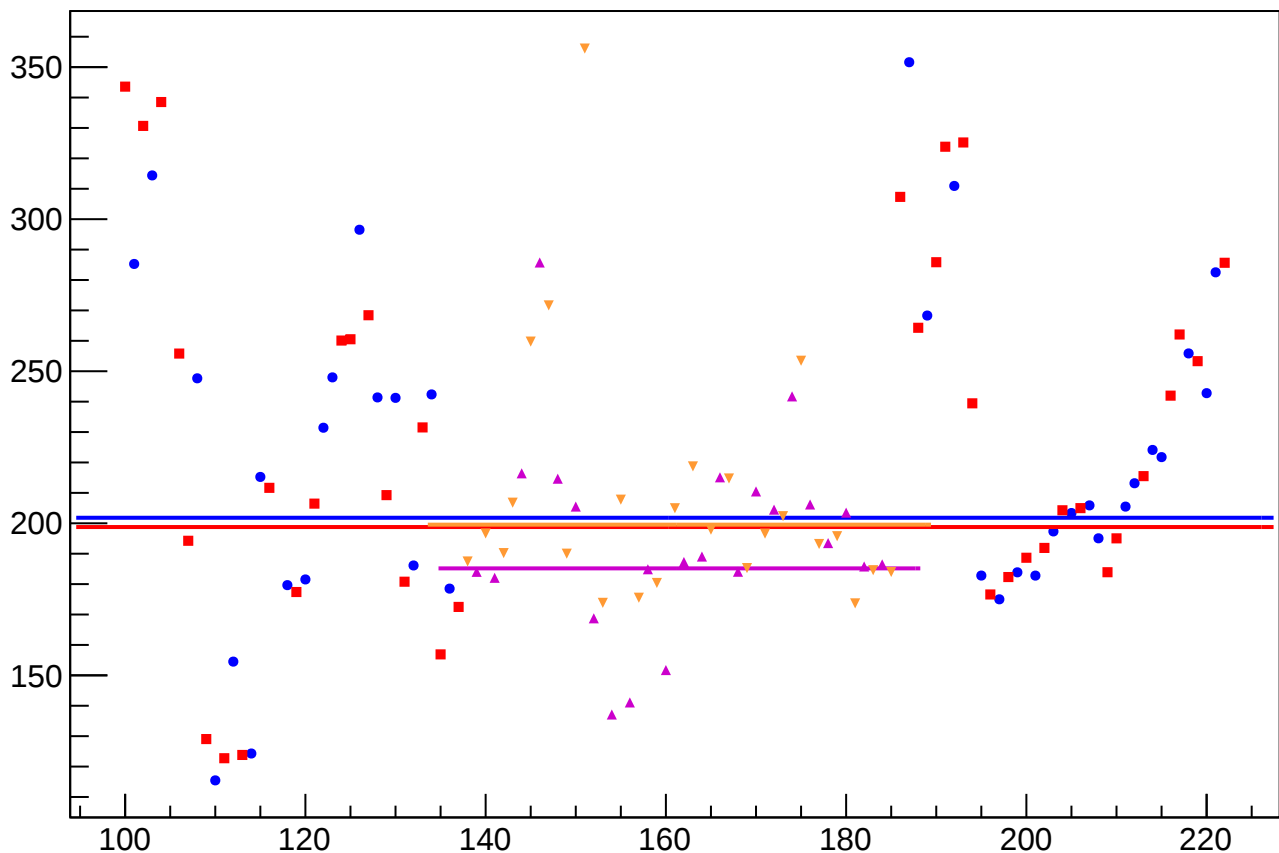
Left In: 1363.043 ± 45.807 χ^2/NDF : 11632.9/22

+ sign 330.171 ± 33.447 χ^2/NDF : 31166.1/59

All: 40.092 ± 23.283 χ^2/NDF : 81819.3/120

- sign -232.633 ± 32.431 χ^2/NDF : 50507.2/60

asym_bpm0i05WS_rms vs Slug



Right In: 201.820 $\pm$ 0.033 χ^2 /NDF: 1661626.0/34

Left Out: 199.547 $\pm$ 0.034 χ^2 /NDF: 729356.3/24

Right Out: 198.766 $\pm$ 0.032 χ^2 /NDF: 2554157.6/37

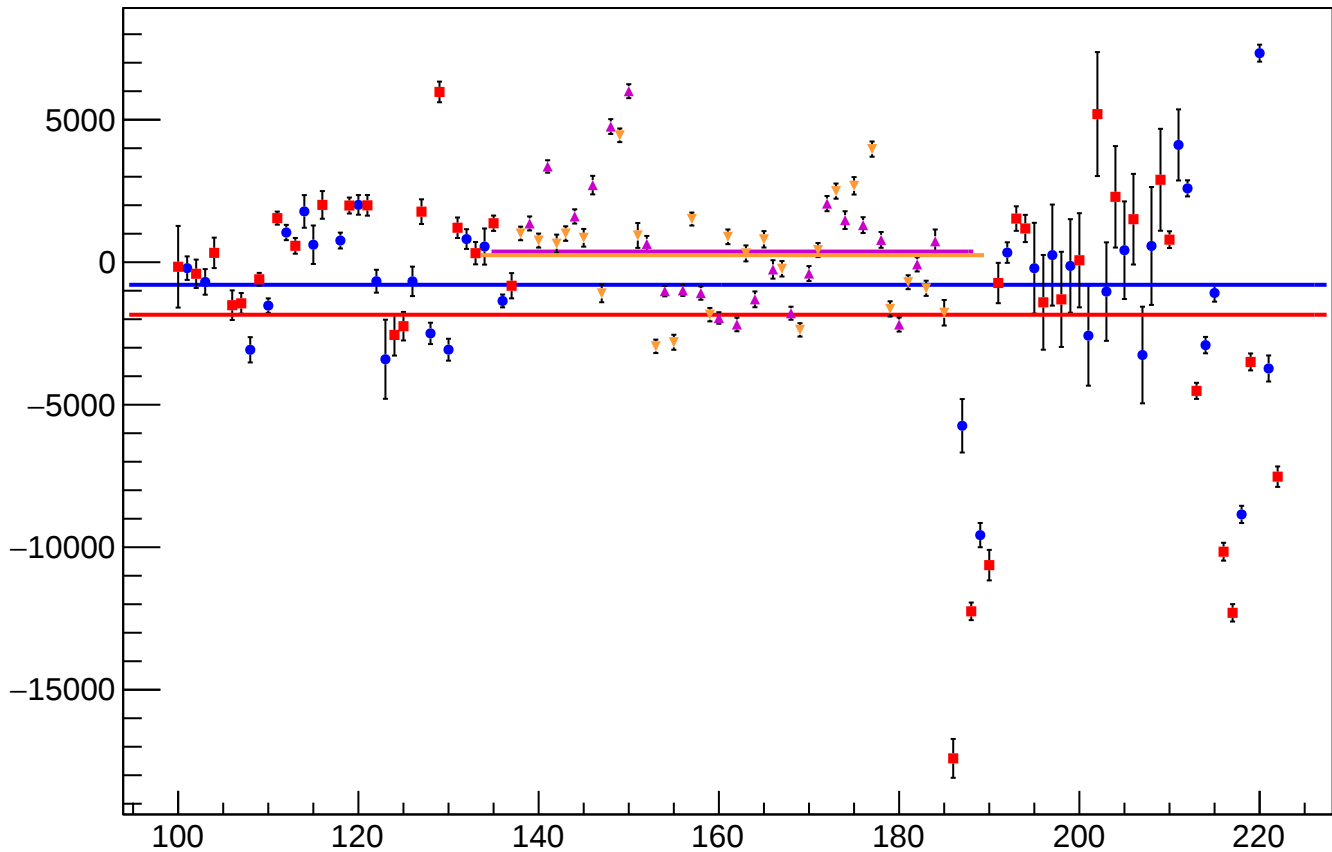
Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

+ sign 200.691 $\pm$ 0.024 χ^2 /NDF: 2393292.0/59

All: 196.186 $\pm$ 0.016 χ^2 /NDF: 5988457.0/120

- sign 191.951 $\pm$ 0.023 χ^2 /NDF: 3524783.7/60

asym_bpm0i07WS_mean vs Slug



Right In: -791.889 ± 69.530 χ^2/NDF : 2474.8/34

Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24

Right Out: -1842.426 ± 64.240 χ^2/NDF : 5900.0/37

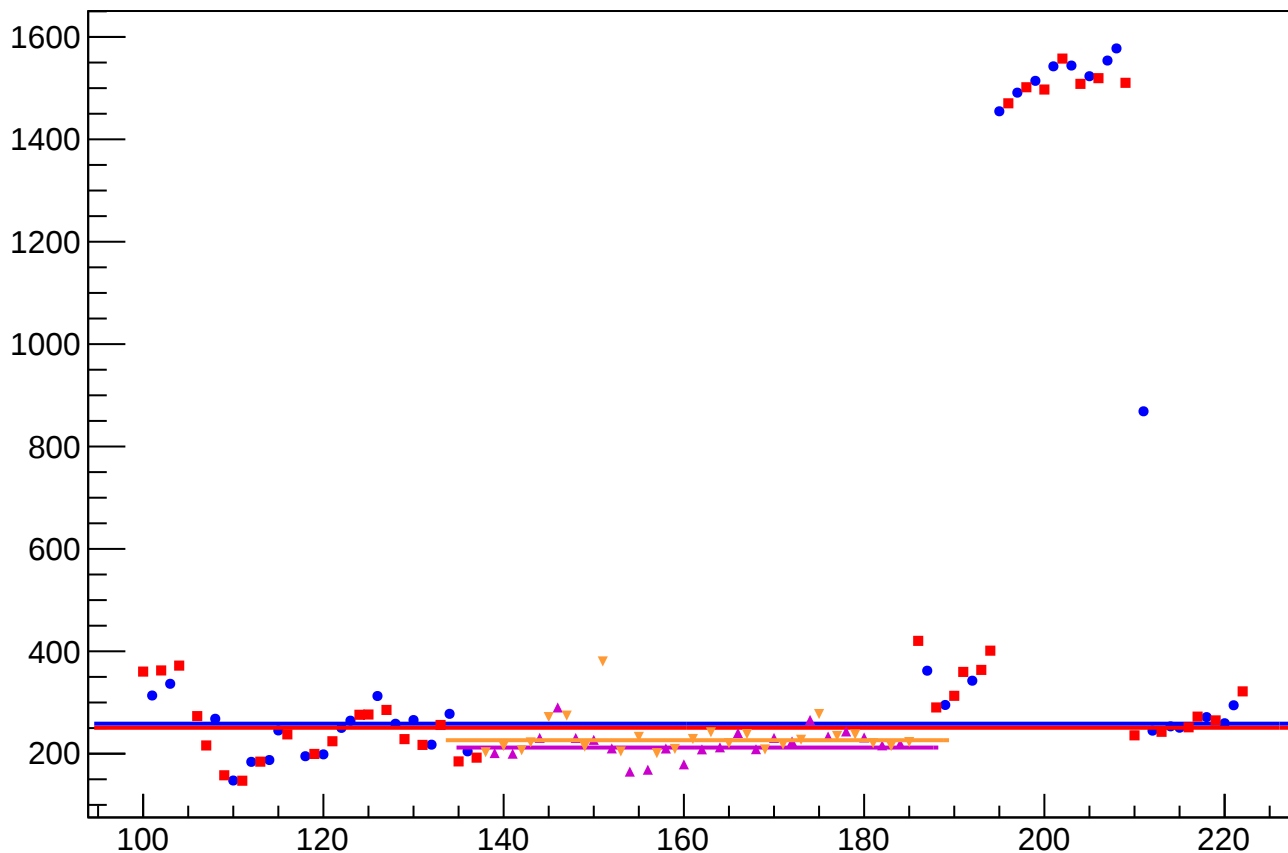
Left In: 374.122 ± 52.049 χ^2/NDF : 1801.0/22

+ sign -139.311 ± 42.428 χ^2/NDF : 3970.2/59

All: -330.559 ± 29.273 χ^2/NDF : 12428.8/120

- sign -504.311 ± 40.441 χ^2/NDF : 8419.8/60

asym_bpm0i07WS_rms vs Slug



Right In: 258.627+/-0.049 χ^2/NDF : 10164089.9/34

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 250.648+/-0.045 χ^2/NDF : 9376061.9/37

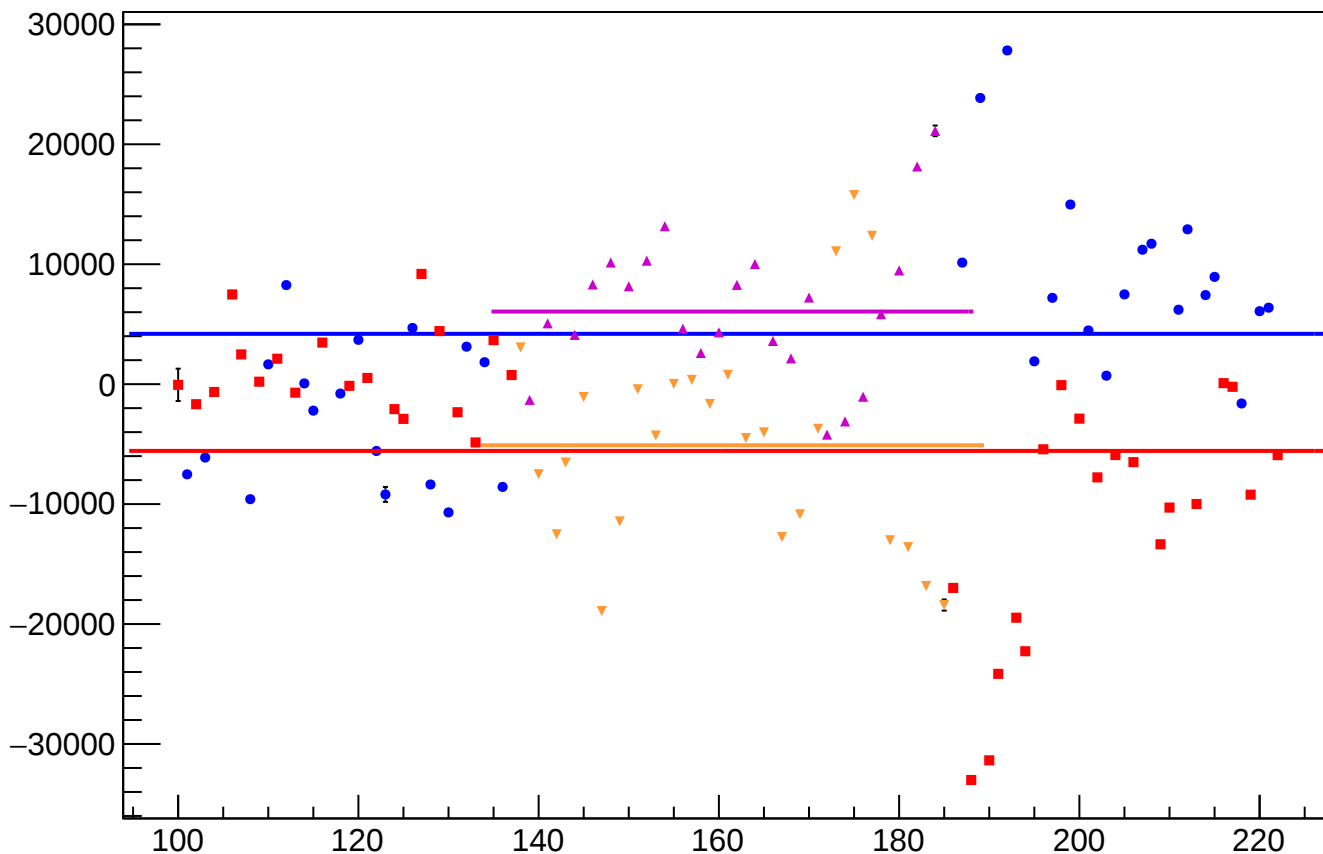
Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

+ sign 238.351+/-0.030 χ^2/NDF : 10956117.6/59

All: 232.560+/-0.021 χ^2/NDF : 21425322.3/12

- sign 227.298+/-0.029 χ^2/NDF : 10398091.8/60

asym_bpm1i02WS_mean vs Slug



Right In: 4196.606+/-32.739 χ^2/NDF : 80929.2/34

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: -5564.454+/-31.397 χ^2/NDF : 105368.0/37

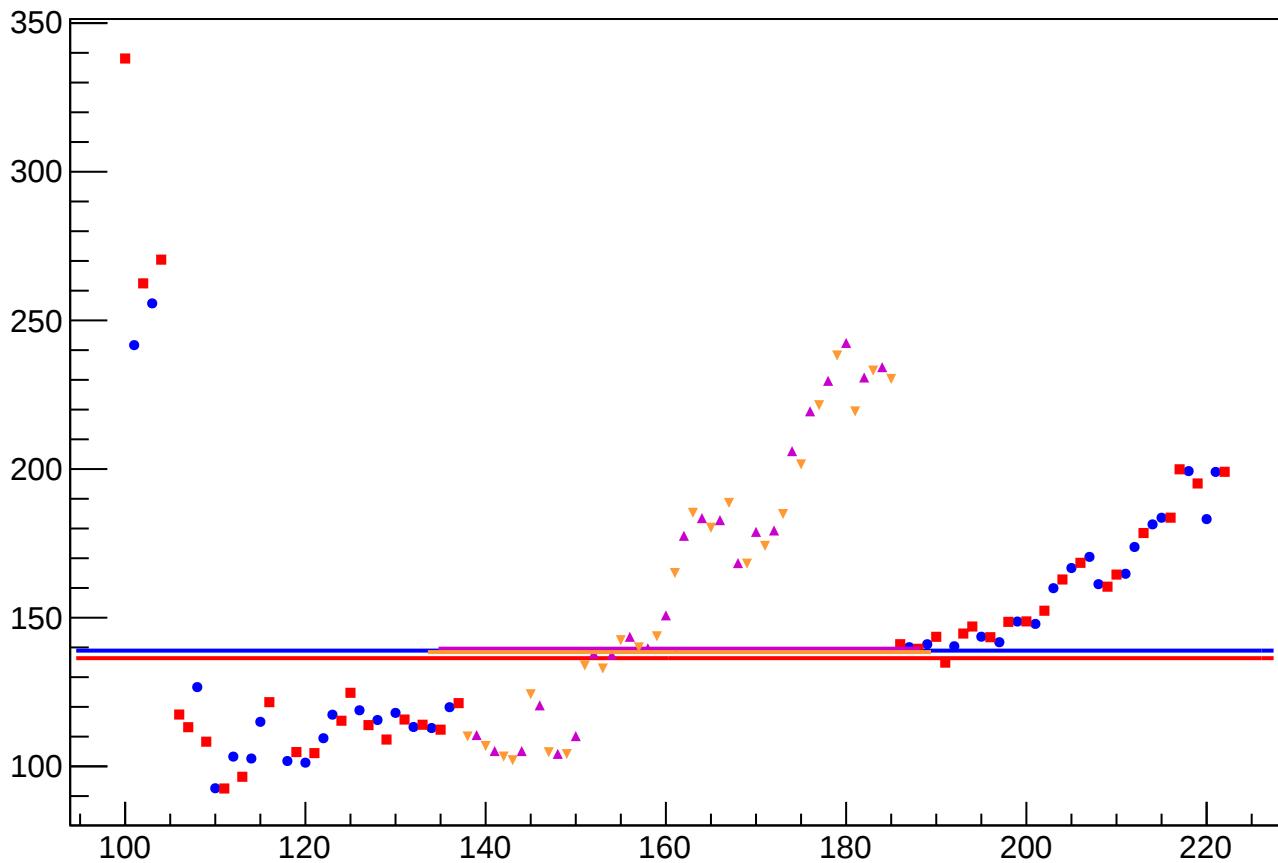
Left In: 6053.569+/-34.998 χ^2/NDF : 17590.3/22

+ sign -314.521+/-23.484 χ^2/NDF : 174431.7/59

All: -349.287+/-16.565 χ^2/NDF : 358453.0/12

- sign -383.720+/-23.371 χ^2/NDF : 184017.0/60

asym_bpm1i02WS_rms vs Slug



Right In: 138.928 ± 0.023 χ^2/NDF : 1962581.1/34

Left Out: 138.436 ± 0.024 χ^2/NDF : 2549435.8/24

Right Out: 136.382 ± 0.022 χ^2/NDF : 2179345.5/37

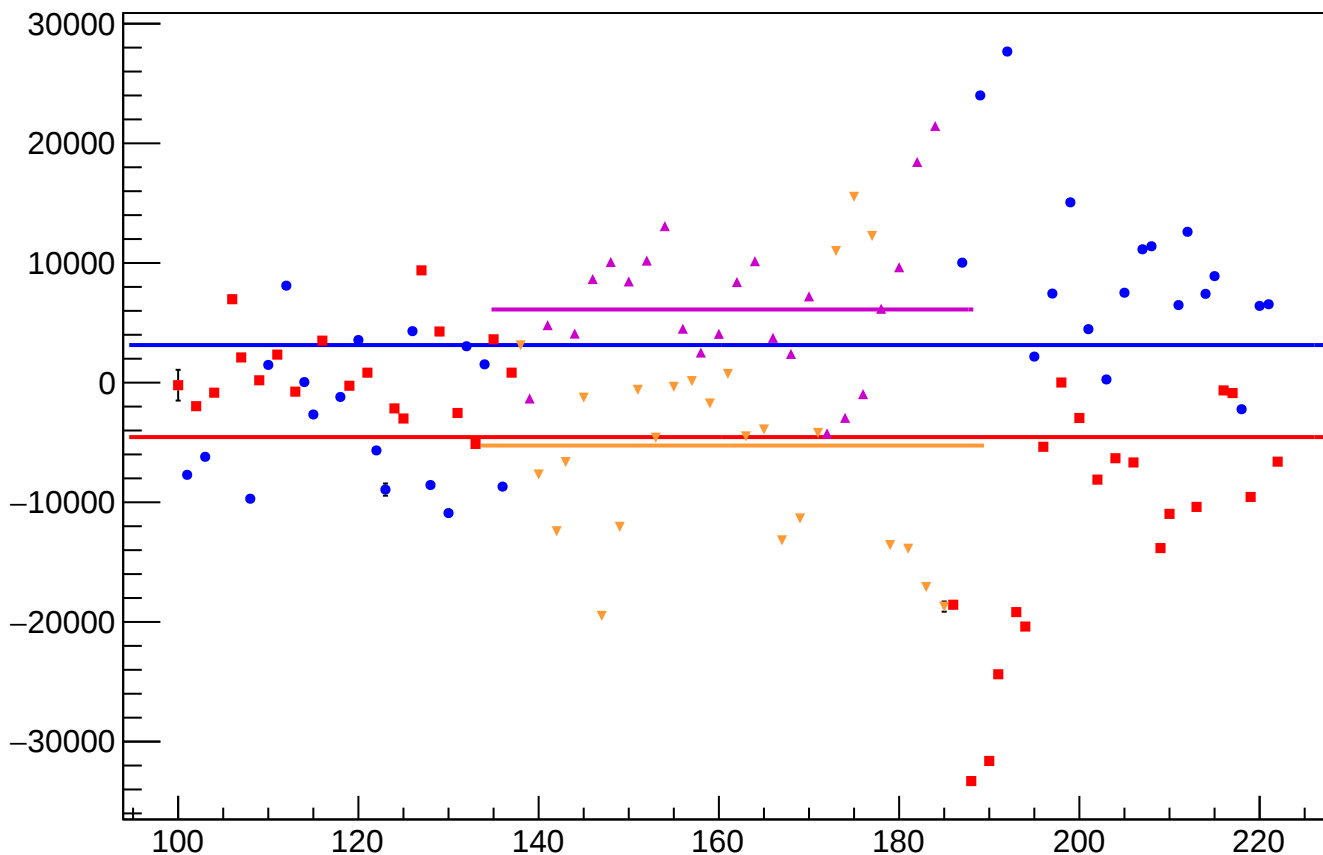
Left In: 139.578 ± 0.025 χ^2/NDF : 2413658.9/22

+ sign 138.689 ± 0.017 χ^2/NDF : 4512236.8/59

All: 138.246 ± 0.012 χ^2/NDF : 9115896.5/120

- sign 137.807 ± 0.017 χ^2/NDF : 4602242.4/60

asym_bpm1i04WS_mean vs Slug



Right In: 3141.014 $\pm$ 29.490 χ^2 /NDF: 92106.2/34

Left Out: -5255.652 $\pm$ 30.622 χ^2 /NDF: 64324.6/24

Right Out: -4550.301 $\pm$ 28.339 χ^2 /NDF: 115099.2/37

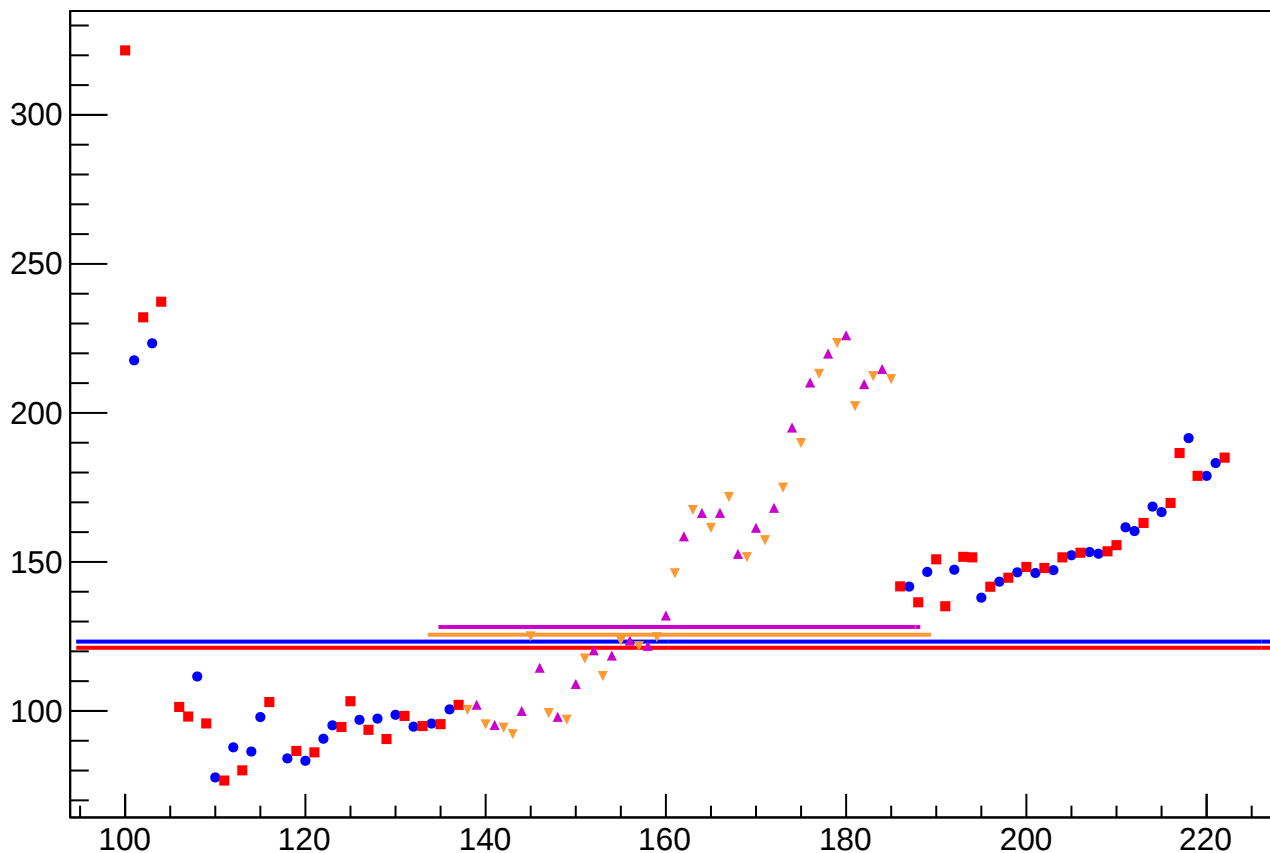
Left In: 6114.901 $\pm$ 32.126 χ^2 /NDF: 21260.9/22

+ sign -899.249 $\pm$ 21.241 χ^2 /NDF: 195440.3/59

All: -391.418 $\pm$ 15.024 χ^2 /NDF: 394927.0/12

- sign 116.908 $\pm$ 21.252 χ^2 /NDF: 198343.0/60

asym_bpm1i04WS_rms vs Slug



Right In: 123.269+/-0.021 χ^2/NDF : 2907360.4/34

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 121.199+/-0.020 χ^2/NDF : 3180552.1/37

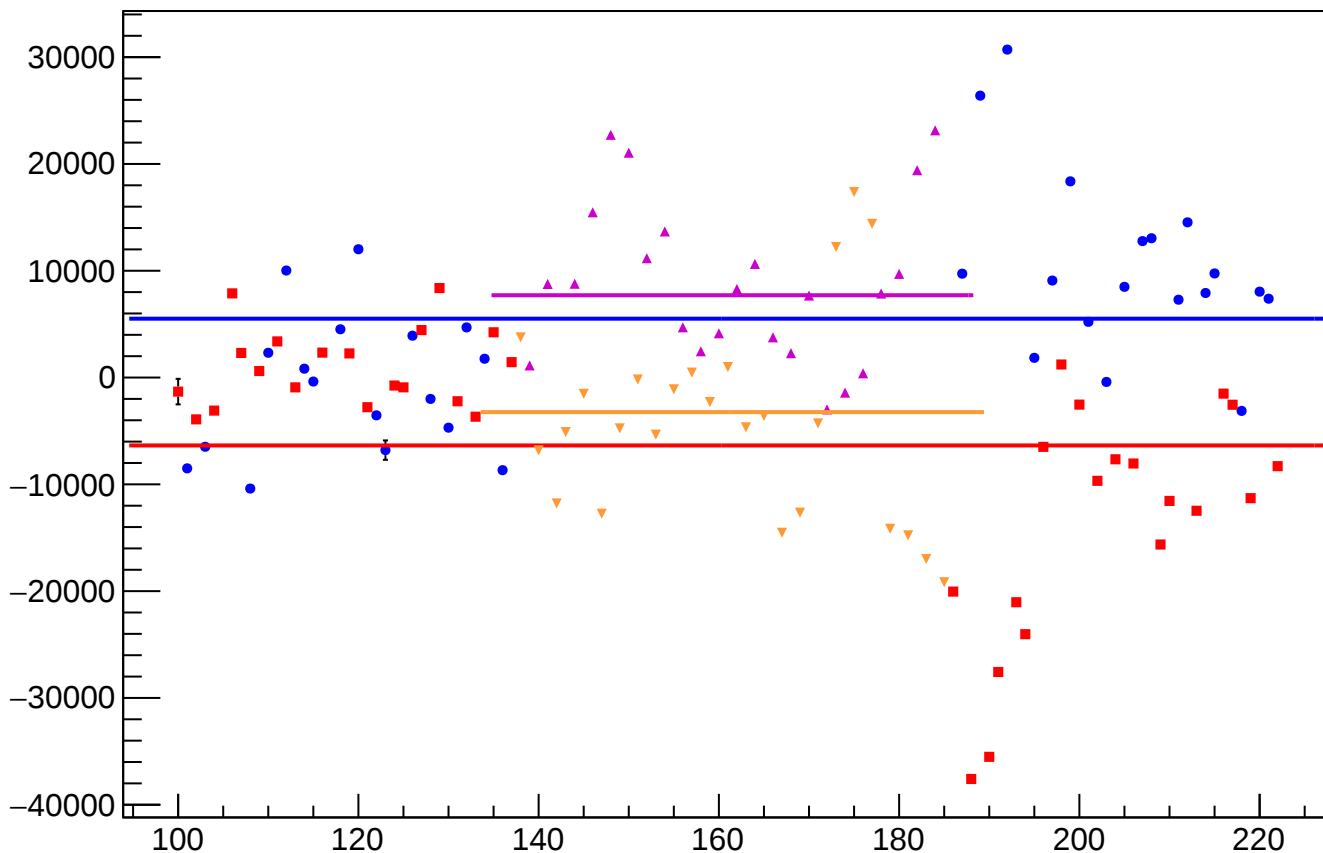
Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

+ sign 124.380+/-0.015 χ^2/NDF : 5509008.1/59

All: 124.318+/-0.011 χ^2/NDF : 11075744.2/12

- sign 124.255+/-0.015 χ^2/NDF : 5566701.9/60

asym_bpm1i06WS_mean vs Slug



Right In: 5511.313+/-38.854 χ^2/NDF : 64063.9/34

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: -6357.102+/-37.258 χ^2/NDF : 94405.2/37

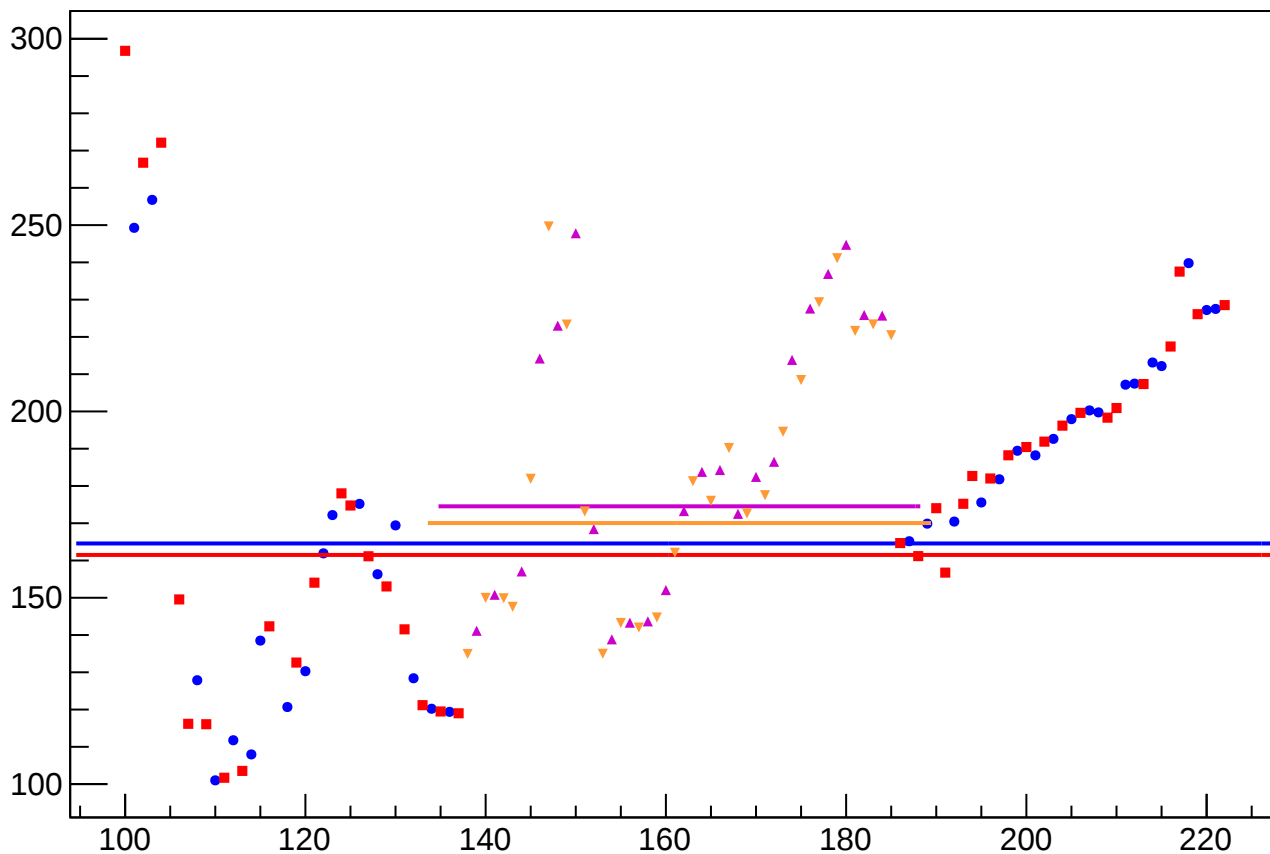
Left In: 7707.068+/-42.990 χ^2/NDF : 21268.3/22

+ sign 1328.480+/-28.065 χ^2/NDF : 125038.0/59

All: 504.667+/-19.877 χ^2/NDF : 303559.8/120

- sign -324.466+/-28.155 χ^2/NDF : 176793.0/60

asym_bpm1i06WS_rms vs Slug



Right In: 164.572 ± 0.027 $\chi^2/\text{NDF}: 2258885.2/34$

Left Out: 170.050 ± 0.029 $\chi^2/\text{NDF}: 1240866.9/24$

Right Out: 161.491 ± 0.026 $\chi^2/\text{NDF}: 2449174.2/37$

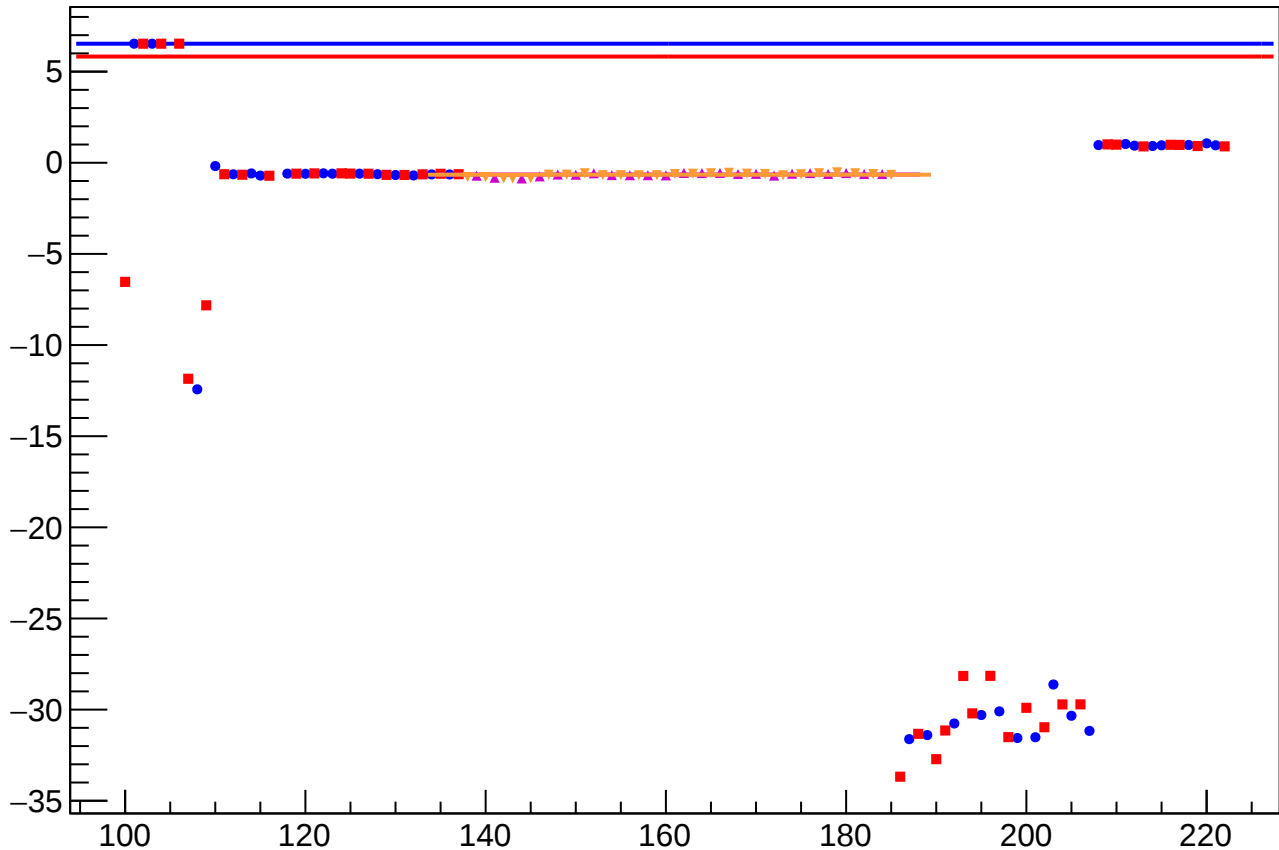
Left In: 174.539 ± 0.030 $\chi^2/\text{NDF}: 1210071.2/22$

+ sign 167.192 ± 0.020 $\chi^2/\text{NDF}: 3518762.4/59$

All: 167.140 ± 0.014 $\chi^2/\text{NDF}: 7283240.1/120$

- sign 167.088 ± 0.020 $\chi^2/\text{NDF}: 3764464.1/60$

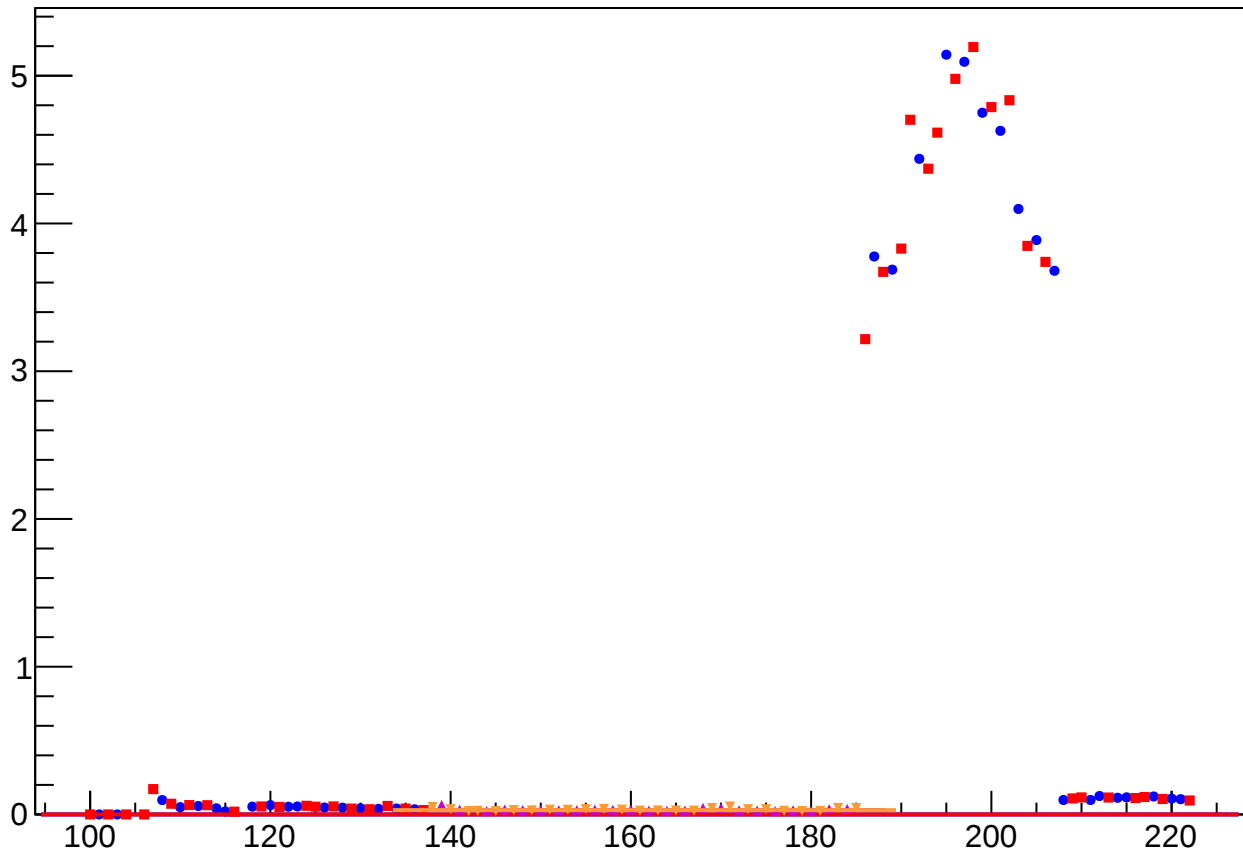
yield_cav4bX_mean vs Slug



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 141839562538.1/34
 Left Out: -0.654 $\pm$ 0.000 χ^2 /NDF: 179109810.4/24
 Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755958160000108.1/37
 Left In: -0.644 $\pm$ 0.000 χ^2 /NDF: 122913584.0/22

+ sign 6.530 $\pm$ 0.000 χ^2 /NDF: 1013220854561.6/59
 All: 6.153 $\pm$ 0.000 χ^2 /NDF: 77762614353338
 - sign 5.826 $\pm$ 0.000 χ^2 /NDF: 756629499563357.2/

yield_cav4bX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 33714138.5/34

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35053202.1/37

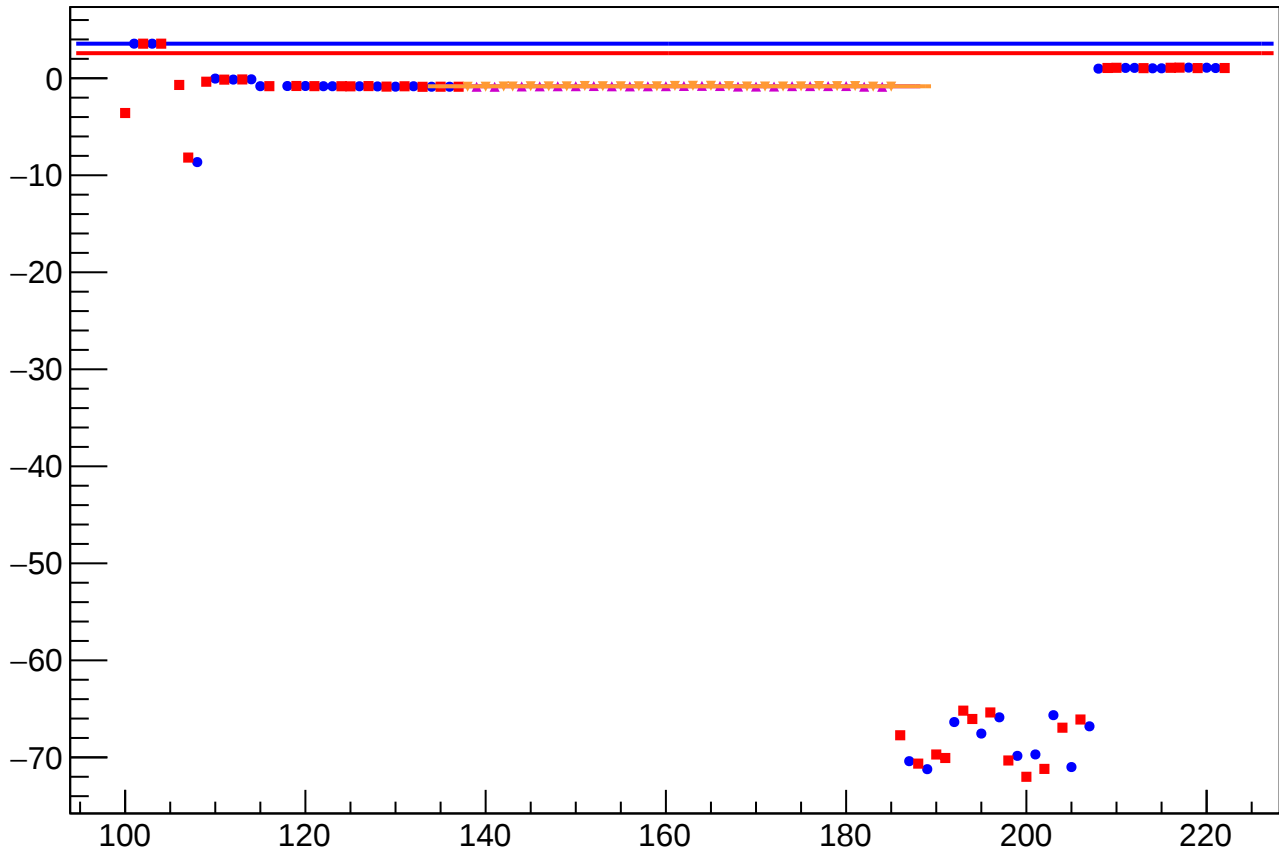
Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 63584247.8/59

All: 0.000+/-0.000 χ^2/NDF : 126602873.7/120

- sign 0.000+/-0.000 χ^2/NDF : 63017887.9/60

yield_cav4bY_mean vs Slug



Right In: 3.563+/-0.000 χ^2/NDF : 606925458424.4/34

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

+ sign 3.560+/-0.000 χ^2/NDF : 4288825777067.0/59

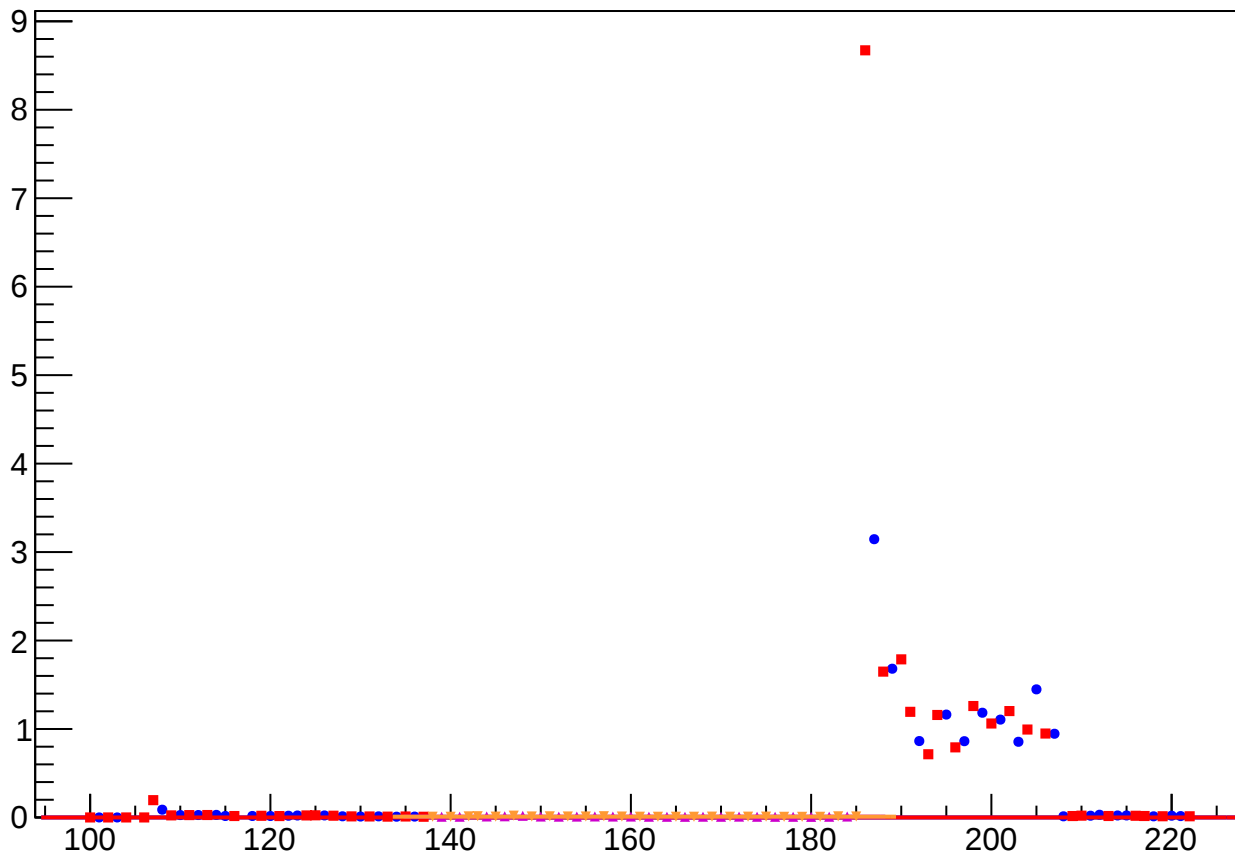
Right Out: 2.583+/-0.000 χ^2/NDF : 1253578395269210.5/37

All: 3.037+/-0.000 χ^2/NDF : 13881377762292

- sign 2.581+/-0.000 χ^2/NDF : 1255778314981935.8

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

yield_cav4bY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 30624459.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32540210.0/37

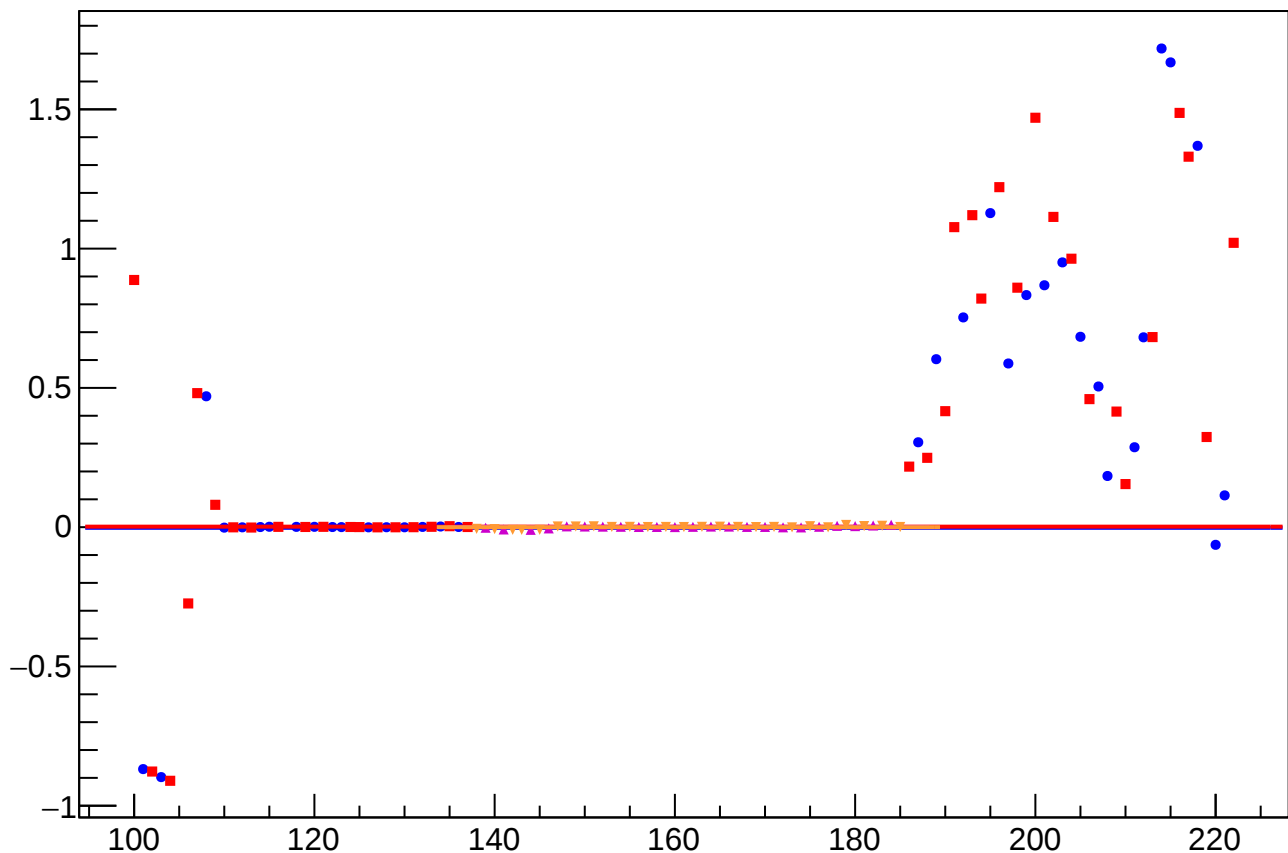
Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 62026318.1/59

All: 0.000+/-0.000 χ^2/NDF : 124106246.2/120

- sign 0.000+/-0.000 χ^2/NDF : 62078831.3/60

yield_cav4cX_mean vs Slug



Right In: -0.002 ± 0.000 χ^2/NDF : 9798025661.4/34

Left Out: -0.000 ± 0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002 ± 0.000 χ^2/NDF : 3044398252.1/37

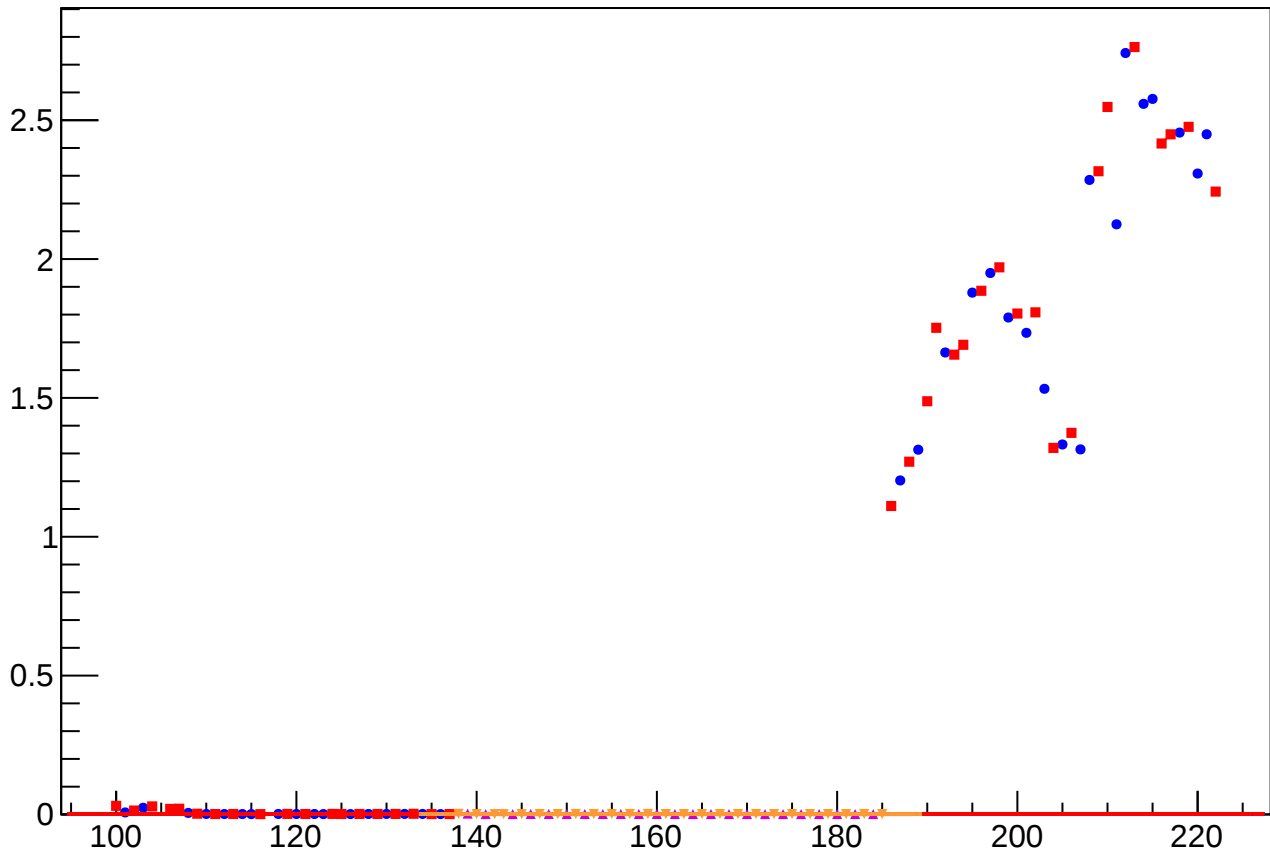
Left In: 0.001 ± 0.000 χ^2/NDF : 101439617.3/22

+ sign -0.001 ± 0.000 χ^2/NDF : 9956037762.6/59

All: 0.000 ± 0.000 χ^2/NDF : 13111426908.9/100

- sign 0.001 ± 0.000 χ^2/NDF : 3147807723.5/60

yield_cav4cX_rms vs Slug



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 26614329.5/34

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:539817.3/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 28711754.1/37

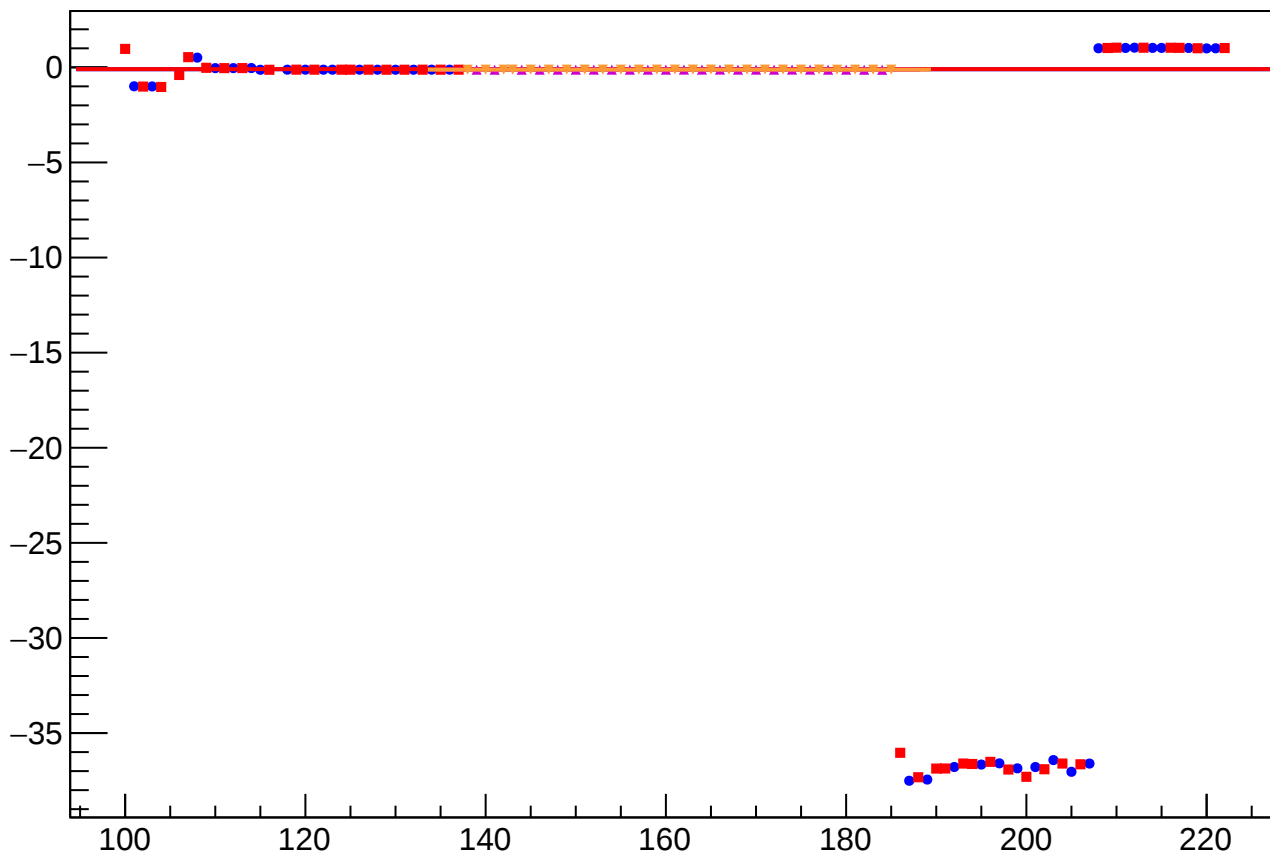
Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:626044.8/22

+ sign 0.002 $\pm$ 0.000 χ^2 /NDF: 27227786.7/59

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 56686508.9/120

- sign 0.002 $\pm$ 0.000 χ^2 /NDF: 29449762.0/60

yield_cav4cY_mean vs Slug



Right In: -0.100 ± 0.000 $\chi^2/\text{NDF}: 111140901757.3/34$

Left Out: -0.121 ± 0.000 $\chi^2/\text{NDF}: 58120109.3/24$

Right Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 115032250933.8/37$

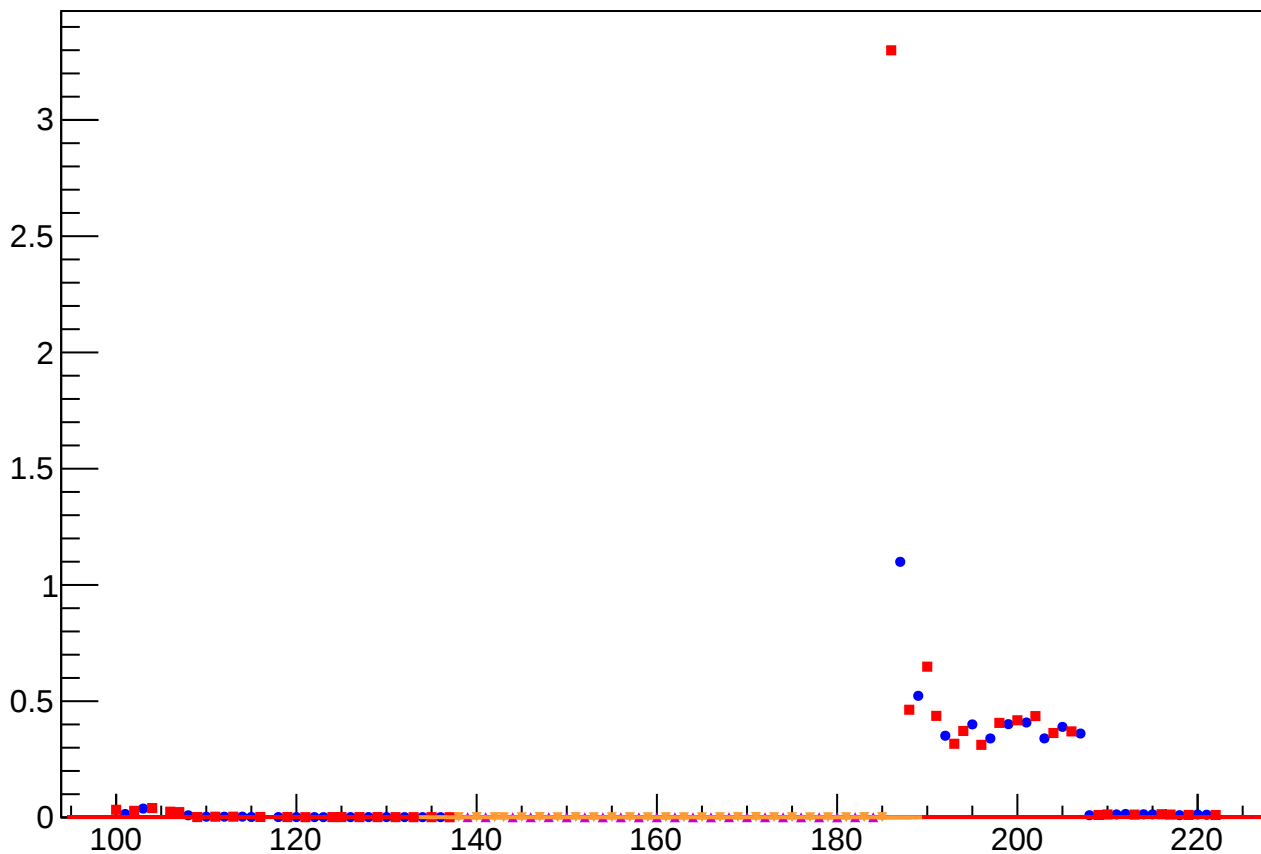
Left In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 52113932.9/22$

+ sign -0.119 ± 0.000 $\chi^2/\text{NDF}: 111969261805.5/59$

All: -0.119 ± 0.000 $\chi^2/\text{NDF}: 228249185332.7$

- sign -0.118 ± 0.000 $\chi^2/\text{NDF}: 116273141565.7/60$

yield_cav4cY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 24000195.0/34

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25953587.8/37

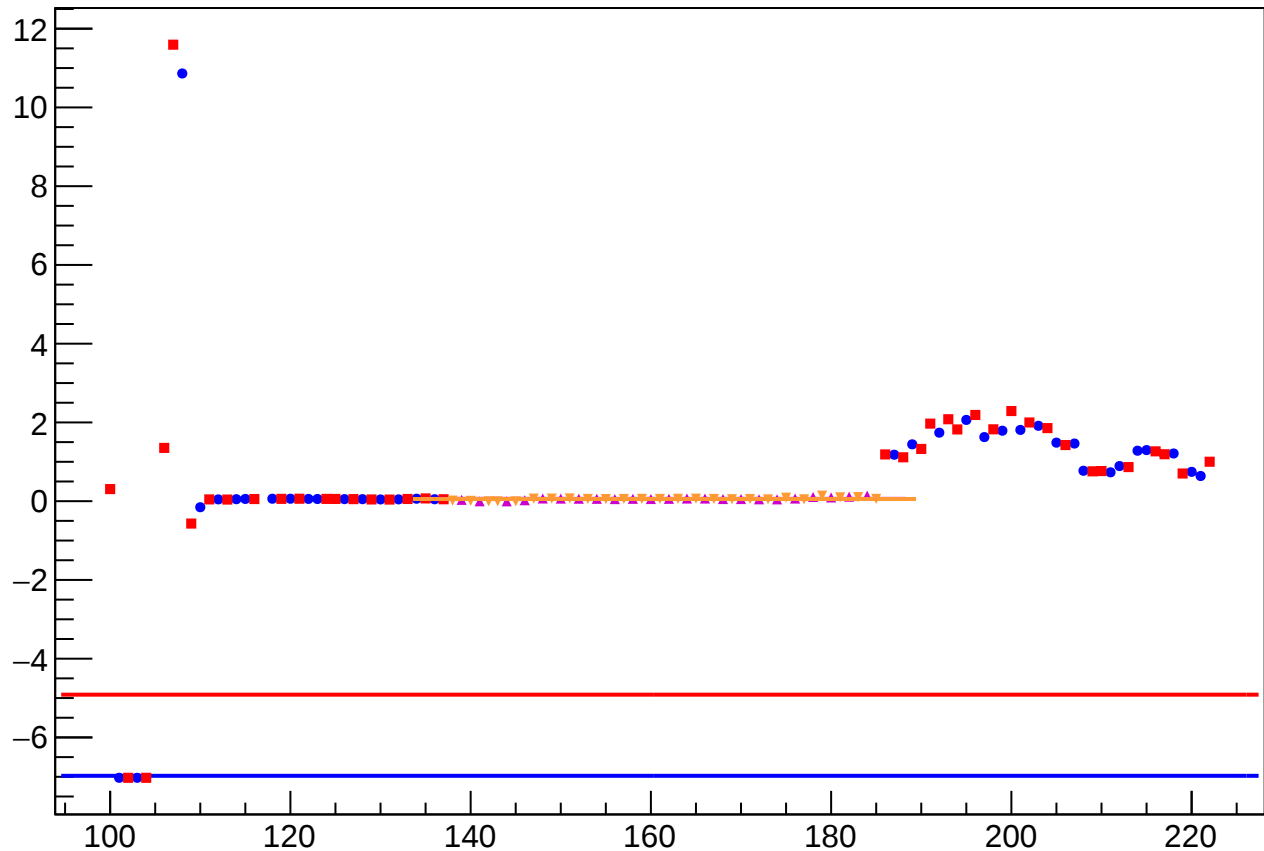
Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

+ sign 0.001+/-0.000 χ^2/NDF : 27531724.1/59

All: 0.001+/-0.000 χ^2/NDF : 56521303.1/120

- sign 0.001+/-0.000 χ^2/NDF : 28987256.8/60

yield_cav4dX_mean vs Slug



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8798170340125.5/34$

Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$

Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365353111039455.1/37$

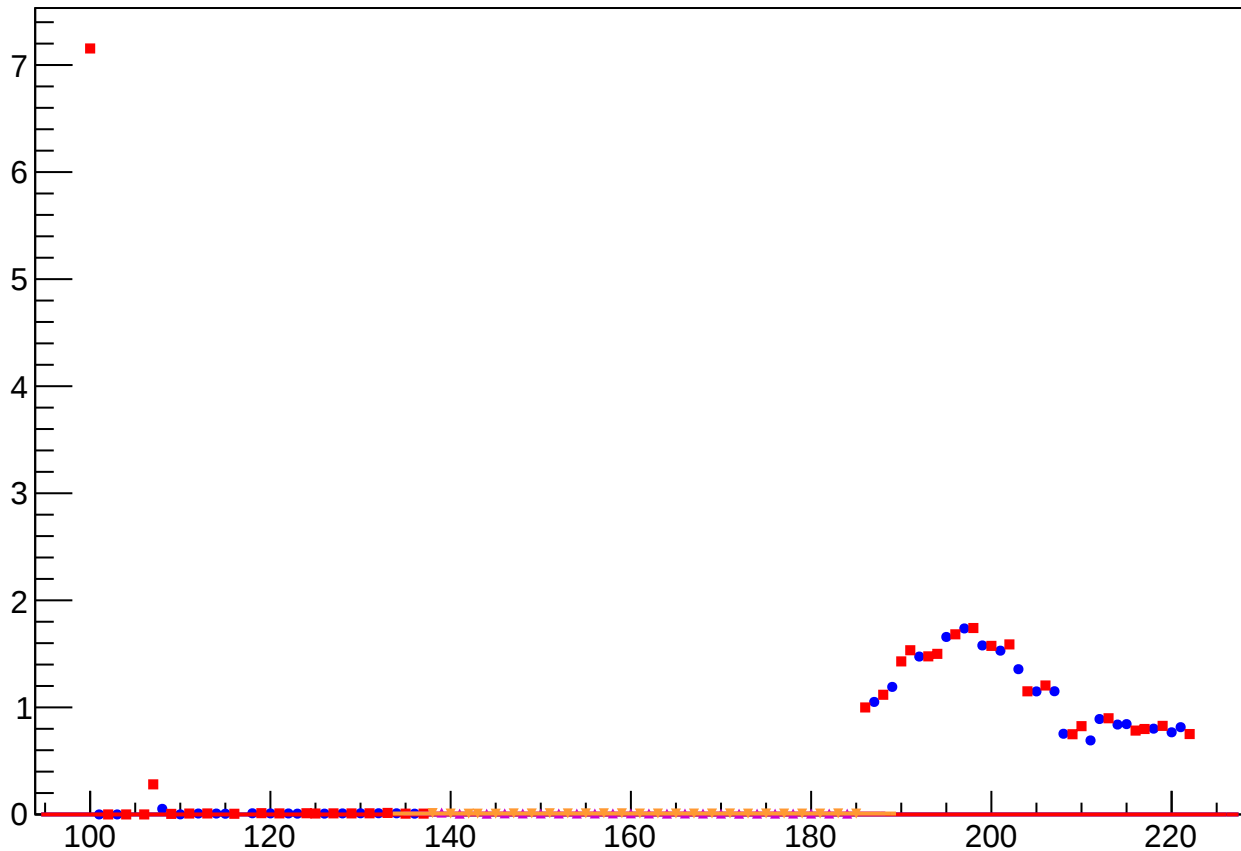
Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$

+ sign -6.921 ± 0.000 $\chi^2/\text{NDF}: 18424474943828.3/34$

All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435297713304.9/34$

- sign -4.882 ± 0.000 $\chi^2/\text{NDF}: 369732127750364.9/34$

yield_cav4dX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 33068896.2/34

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 34505378.3/37

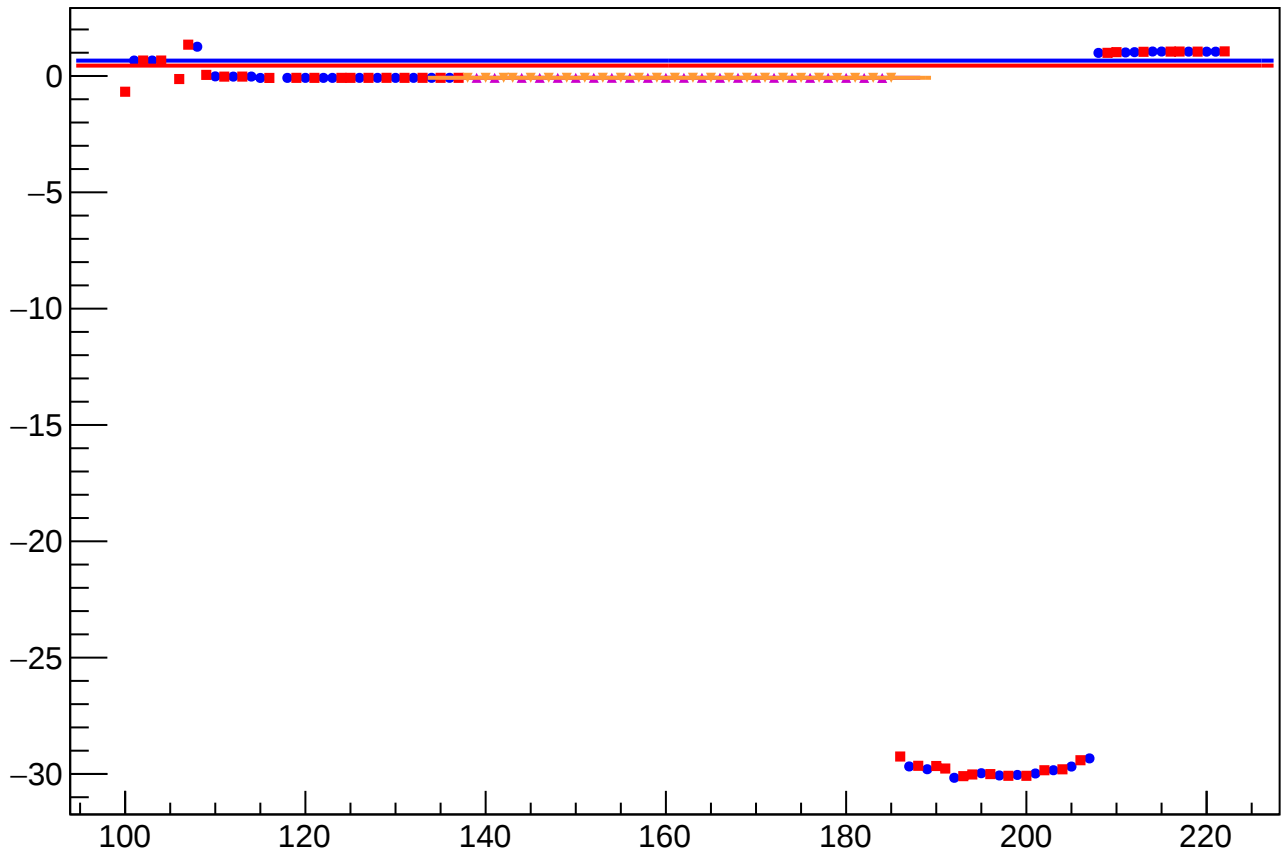
Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

+ sign 0.000+/-0.000 χ^2/NDF : 61968761.1/59

All: 0.000+/-0.000 χ^2/NDF : 123933288.9/120

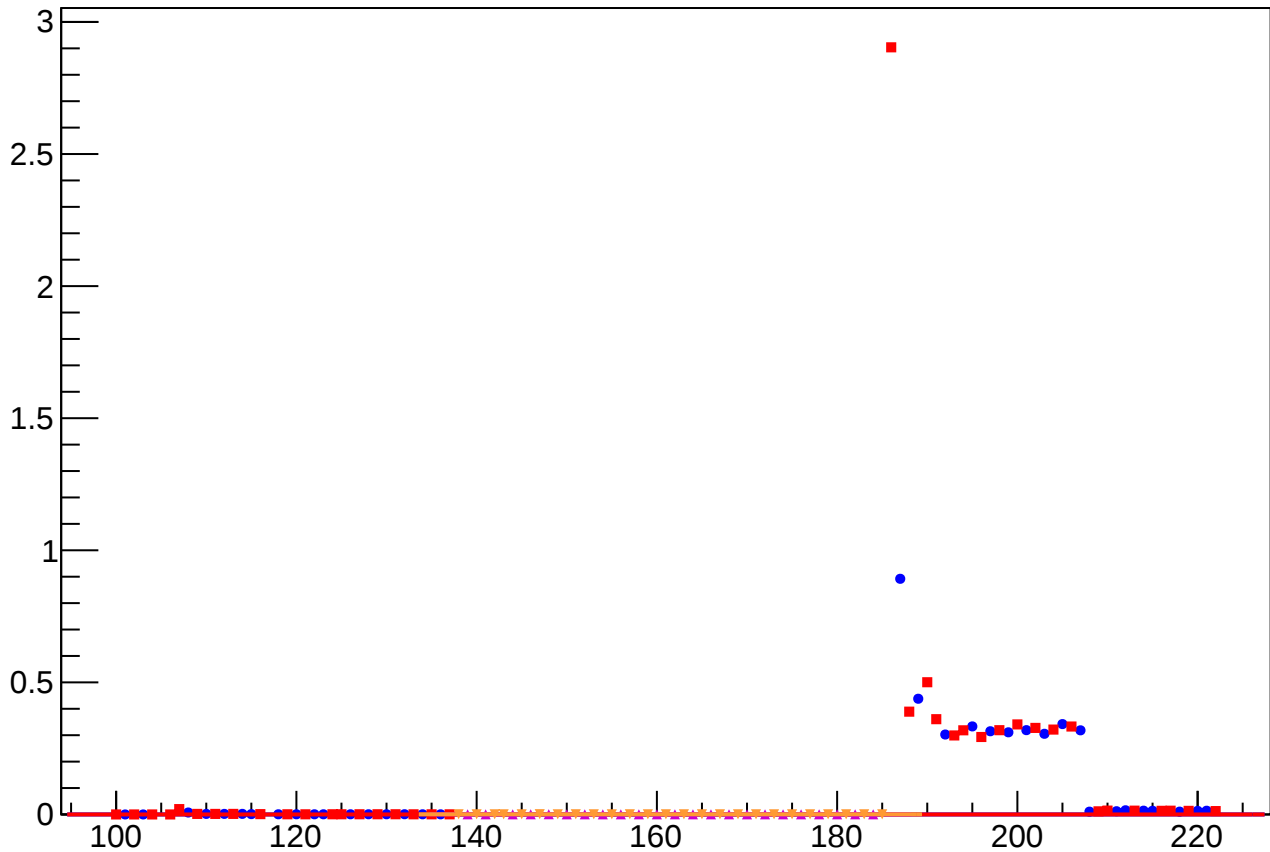
- sign 0.000+/-0.000 χ^2/NDF : 61959682.8/60

yield_cav4dY_mean vs Slug



Right In: 0.661 $\pm$ 0.000	χ^2 /NDF: 5723680797255.1/34	+ sign 0.646 $\pm$ 0.000	χ^2 /NDF: 35822829732269.0/5
Left Out: -0.078 $\pm$ 0.000	χ^2 /NDF: 156404795.7/24	All: 0.537 $\pm$ 0.000	χ^2 /NDF: 51598229932626
Right Out: 0.446 $\pm$ 0.000	χ^2 /NDF: 405500224804855.8/37	- sign 0.437 $\pm$ 0.000	χ^2 /NDF: 419622558514495.2/
Left In: -0.077 $\pm$ 0.000	χ^2 /NDF: 110762924.1/22		

yield_cav4dY_rms vs Slug



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 34255281.1/34

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:465981.8/24

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 34998416.5/37

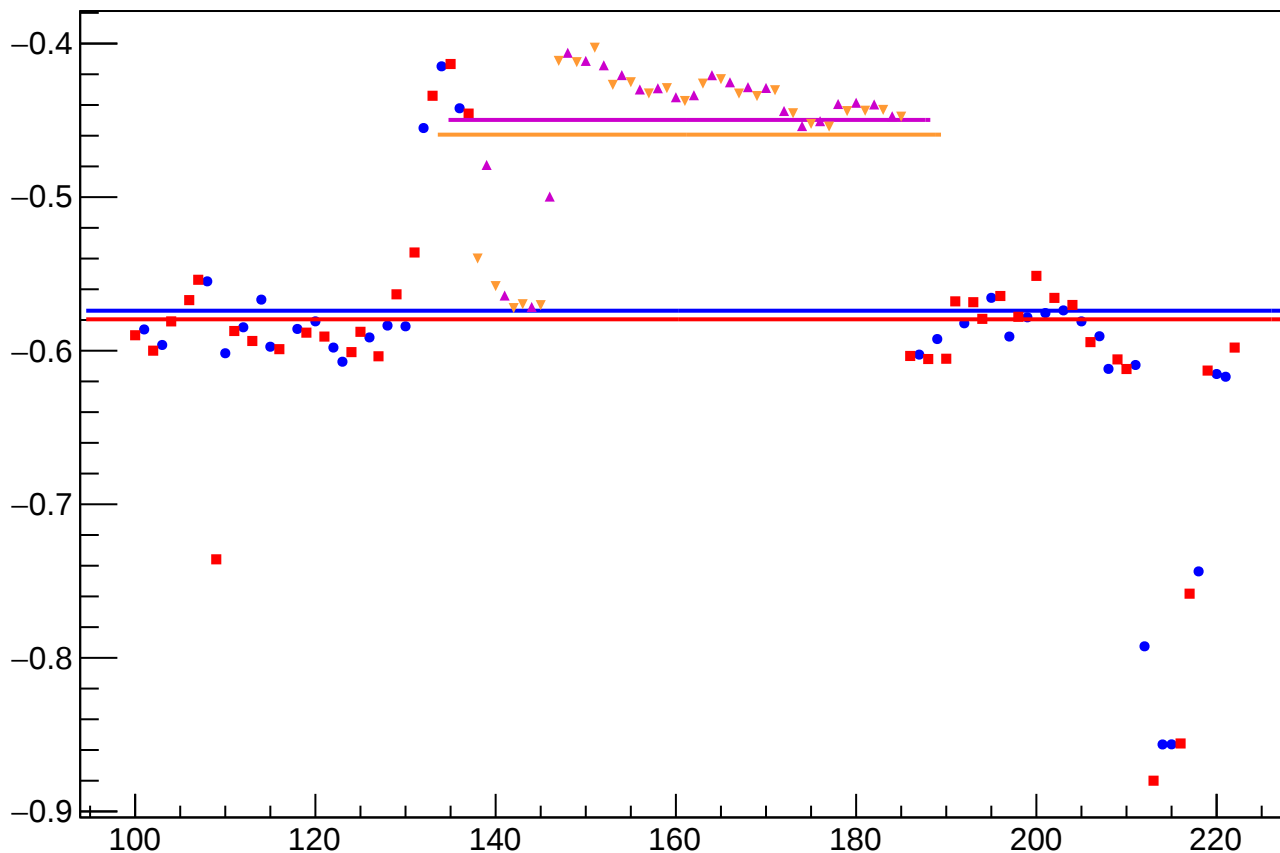
Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:355509.7/22

+ sign 0.000 $\pm$ 0.000 χ^2 /NDF: 66789831.0/59

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 132574245.0/120

- sign 0.000 $\pm$ 0.000 χ^2 /NDF: 65776348.8/60

yield_bpm4aX_mean vs Slug



Right In: -0.574 ± 0.000 $\chi^2/\text{NDF}: 115327825.4/34$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 113602161.0/24$

Right Out: -0.580 ± 0.000 $\chi^2/\text{NDF}: 120241426.1/37$

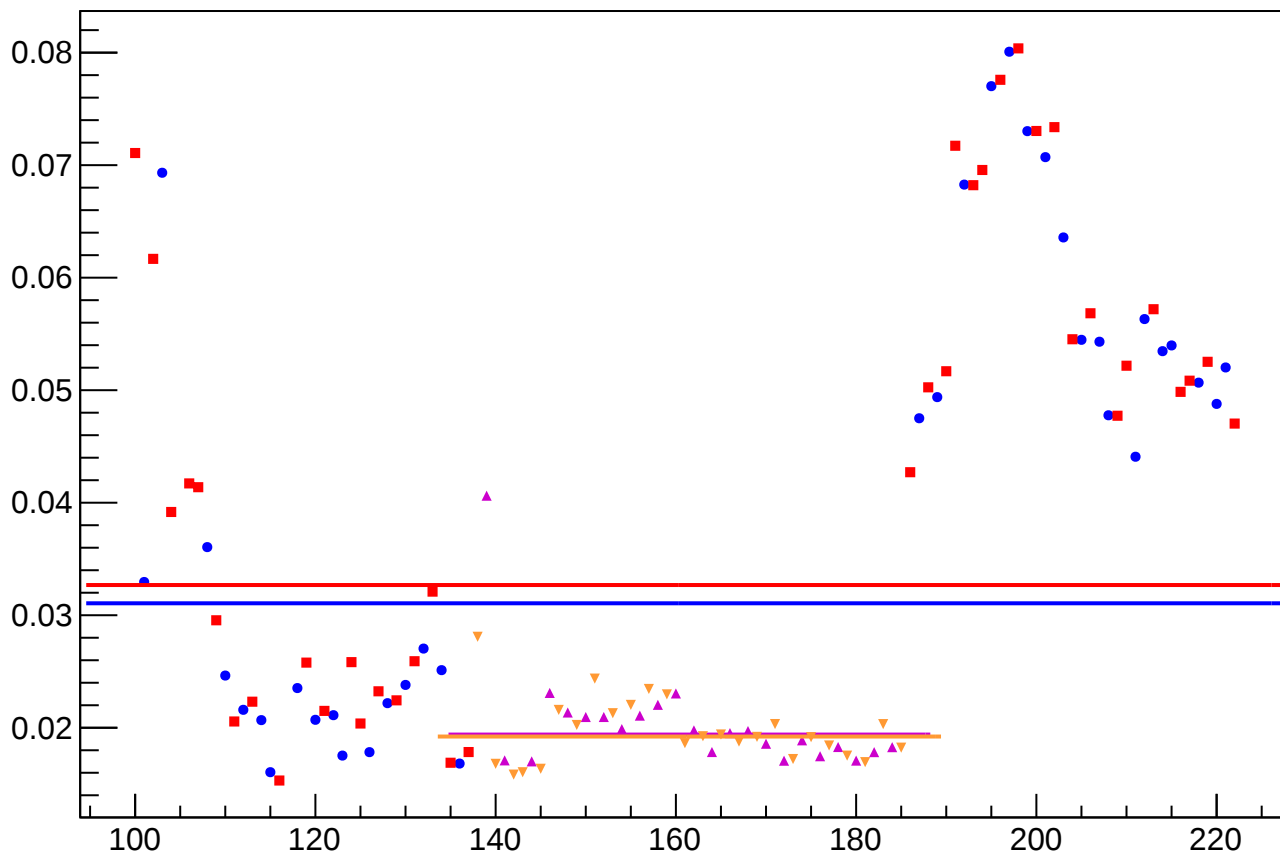
Left In: -0.450 ± 0.000 $\chi^2/\text{NDF}: 76117957.8/22$

+ sign -0.490 ± 0.000 $\chi^2/\text{NDF}: 368127142.2/59$

All: -0.487 ± 0.000 $\chi^2/\text{NDF}: 734864542.3/12$

- sign -0.485 ± 0.000 $\chi^2/\text{NDF}: 366191310.7/60$

yield_bpm4aX_rms vs Slug



Right In: 0.031+/-0.000 χ^2/NDF : 8135571.0/34

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.033+/-0.000 χ^2/NDF : 7972783.6/37

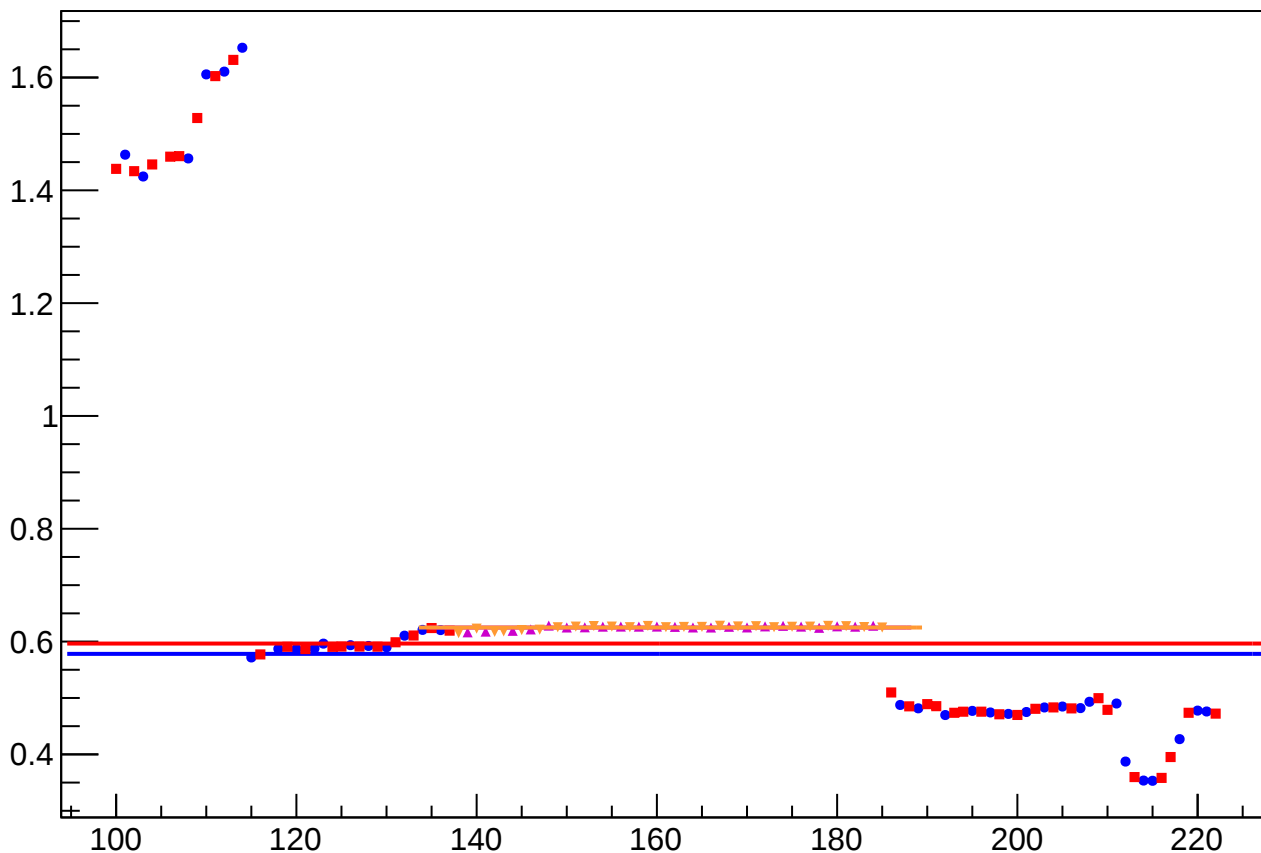
Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

+ sign 0.022+/-0.000 χ^2/NDF : 11607893.9/59

All: 0.023+/-0.000 χ^2/NDF : 23788947.6/120

- sign 0.023+/-0.000 χ^2/NDF : 12157992.9/60

yield_bpm4aY_mean vs Slug



Right In: 0.578 $\pm$ 0.000 χ^2 /NDF: 5628716172.8/34

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF: 1445169.1/24

Right Out: 0.596 $\pm$ 0.000 χ^2 /NDF: 6674315953.9/37

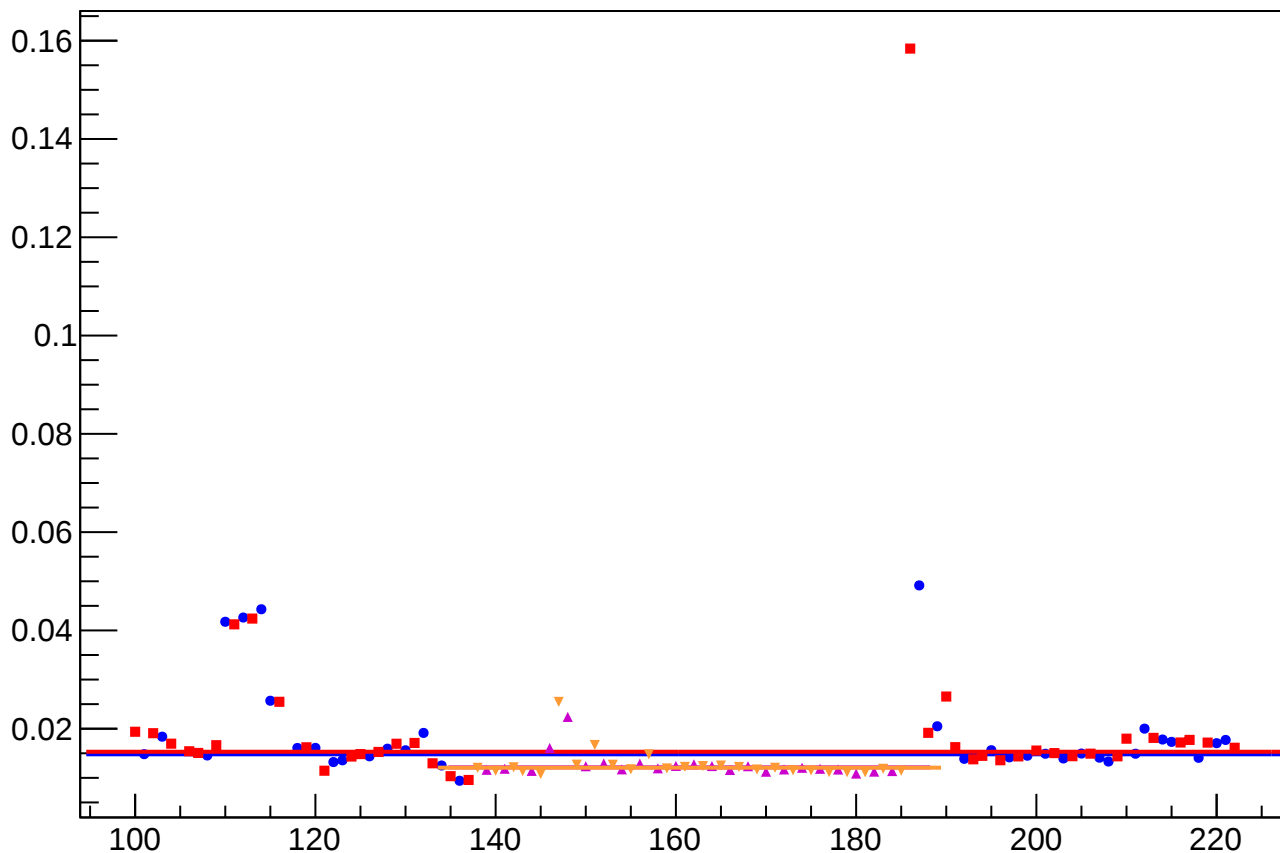
Left In: 0.625 $\pm$ 0.000 χ^2 /NDF: 1143954.1/22

+ sign 0.606 $\pm$ 0.000 χ^2 /NDF: 5735599526.1/59

All: 0.610 $\pm$ 0.000 χ^2 /NDF: 12452967645.5/120

- sign 0.613 $\pm$ 0.000 χ^2 /NDF: 6712553943.3/60

yield_bpm4aY_rms vs Slug



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1897059.1/34

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2238368.7/37

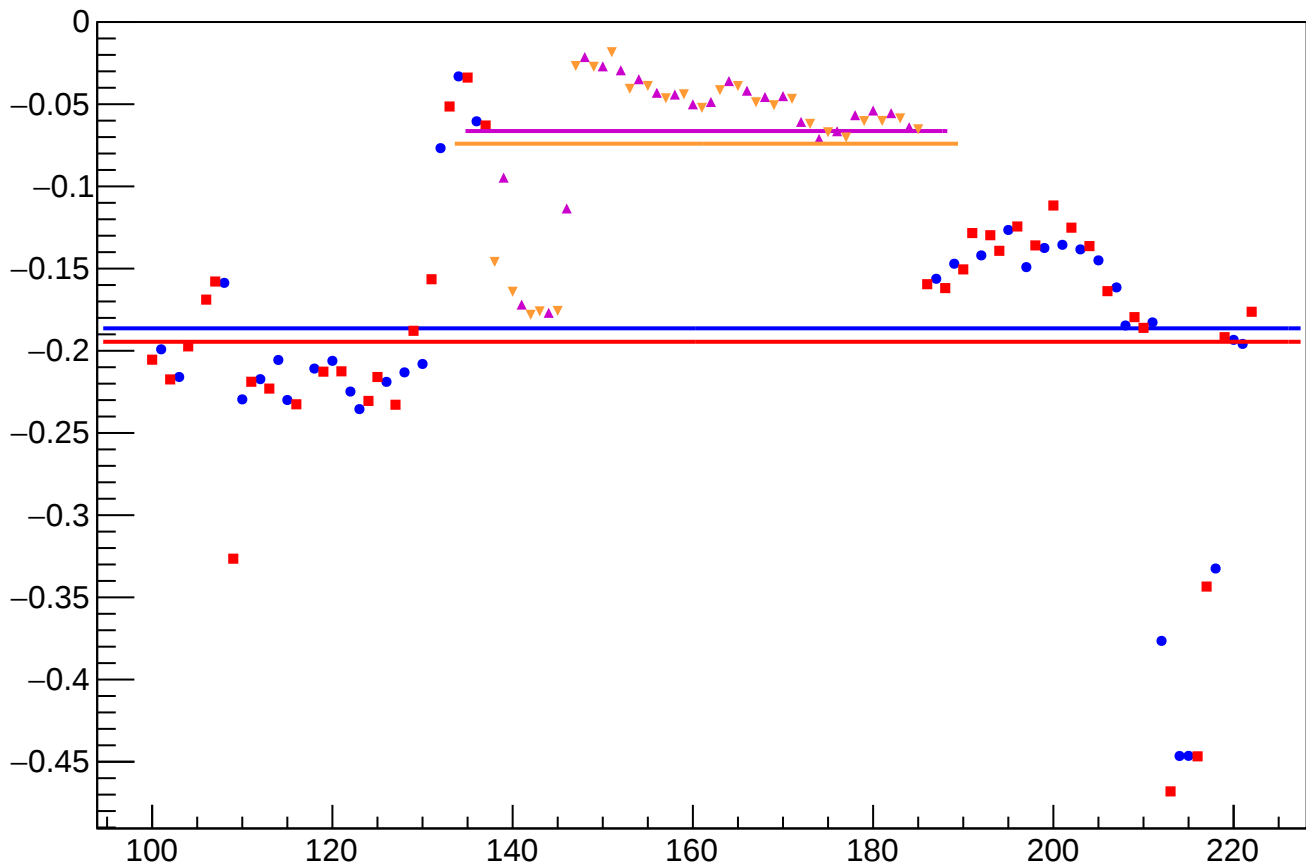
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 3270026.6/59

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6942999.1/120

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 3658325.3/60

yield_bpm4eX_mean vs Slug



Right In: -0.186+/-0.000 χ^2/NDF : 127735296.4/34

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134574033.1/37

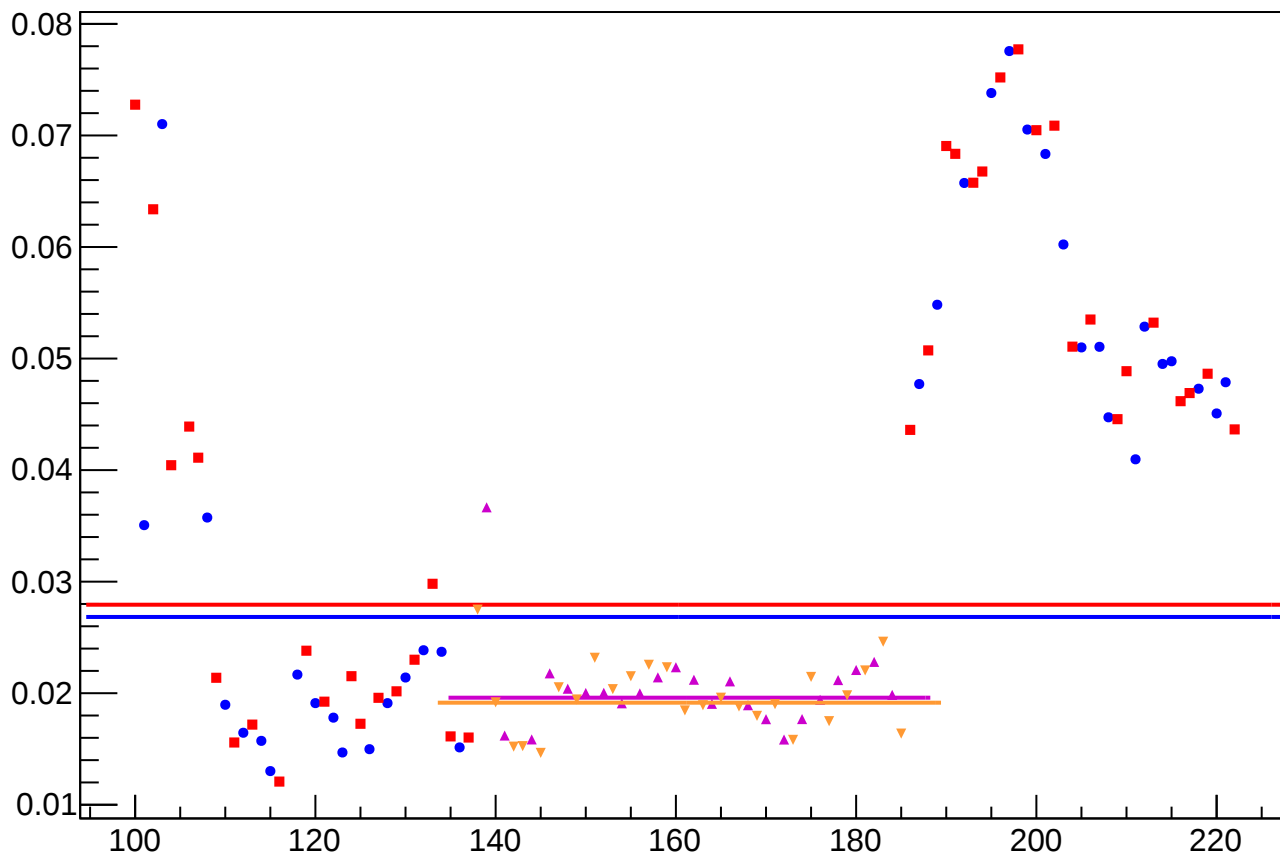
Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

+ sign -0.109+/-0.000 χ^2/NDF : 395227977.5/59

All: -0.108+/-0.000 χ^2/NDF : 803671720.9/12

- sign -0.108+/-0.000 χ^2/NDF : 408426142.8/60

yield_bpm4eX_rms vs Slug



Right In: 0.027 ± 0.000 χ^2/NDF : 9552968.1/34

Left Out: 0.019 ± 0.000 χ^2/NDF : 641277.0/24

Right Out: 0.028 ± 0.000 χ^2/NDF : 9792221.2/37

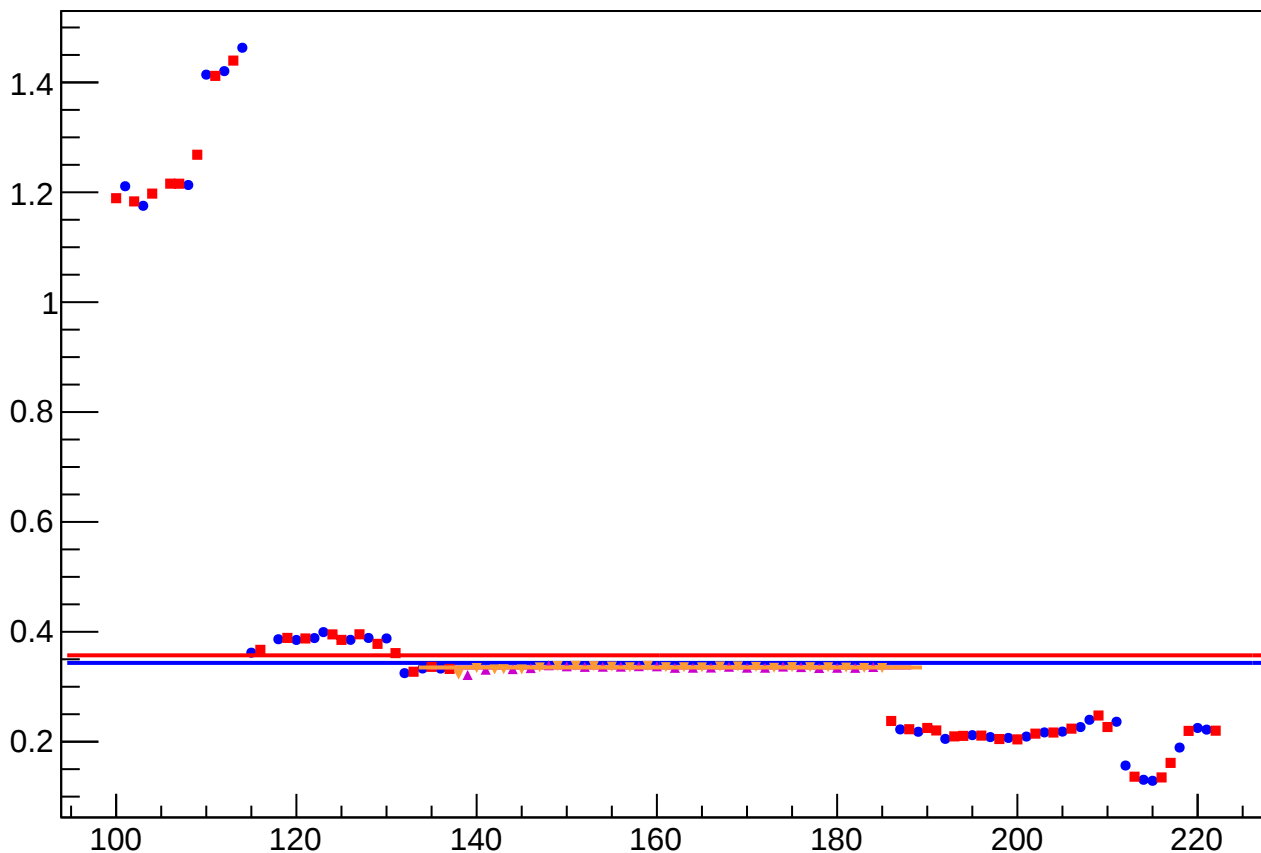
Left In: 0.020 ± 0.000 χ^2/NDF : 623148.2/22

+ sign 0.022 ± 0.000 χ^2/NDF : 11690690.5/59

All: 0.022 ± 0.000 χ^2/NDF : 23811709.1/120

- sign 0.022 ± 0.000 χ^2/NDF : 12086326.6/60

yield_bpm4eY_mean vs Slug



Right In: 0.343+/-0.000 χ^2/NDF : 8110118146.3/34

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.357+/-0.000 χ^2/NDF : 9200216903.4/37

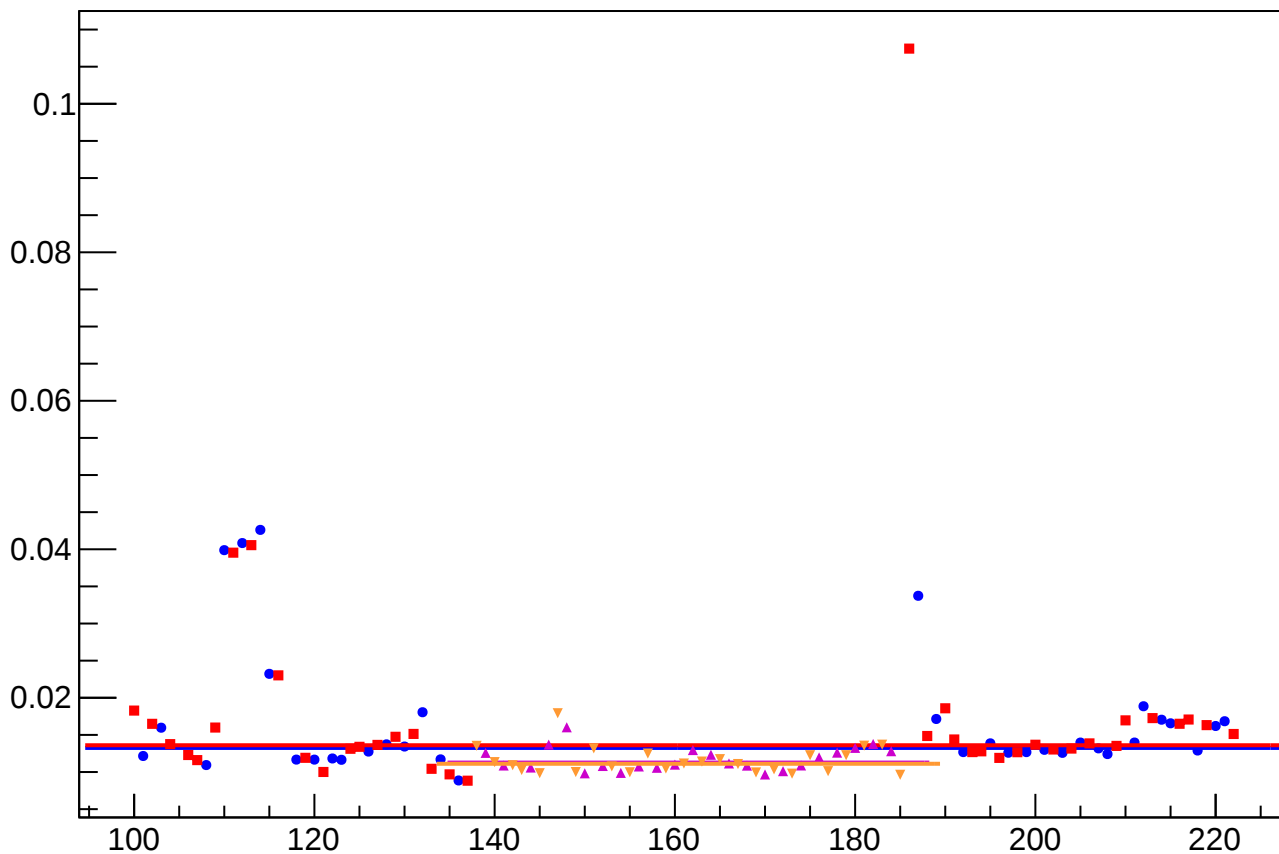
Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

+ sign 0.339+/-0.000 χ^2/NDF : 8115326386.1/59

All: 0.341+/-0.000 χ^2/NDF : 17348477430.9/1

- sign 0.345+/-0.000 χ^2/NDF : 9228901299.3/60

yield_bpm4eY_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1919342.3/34

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:607532.0/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2276324.3/37

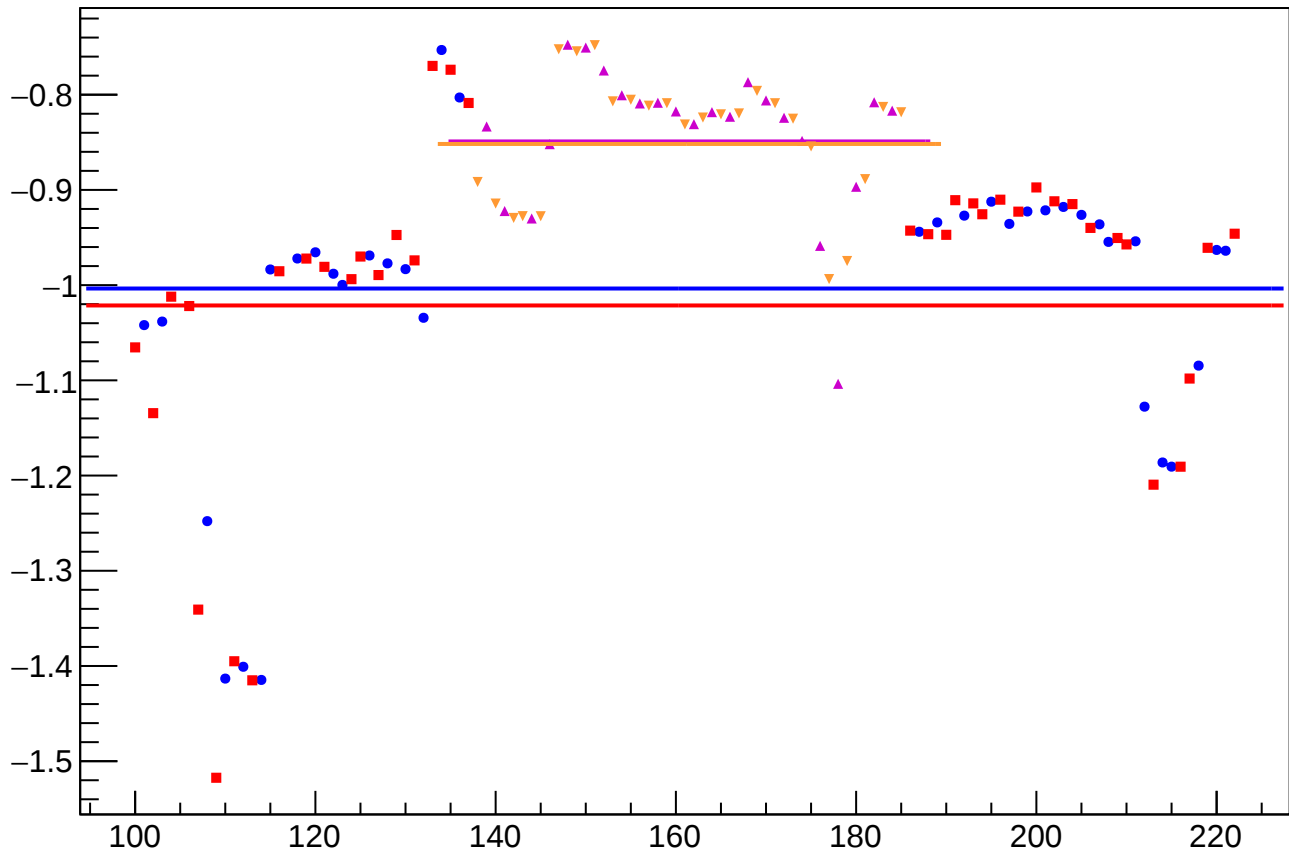
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502455.5/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 3059715.0/59

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 6465696.7/120

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 3387380.7/60

yield_bpm4acX_mean vs Slug



Right In: -1.004 ± 0.000 χ^2/NDF : 430054402.7/34

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.021 ± 0.000 χ^2/NDF : 581509787.5/37

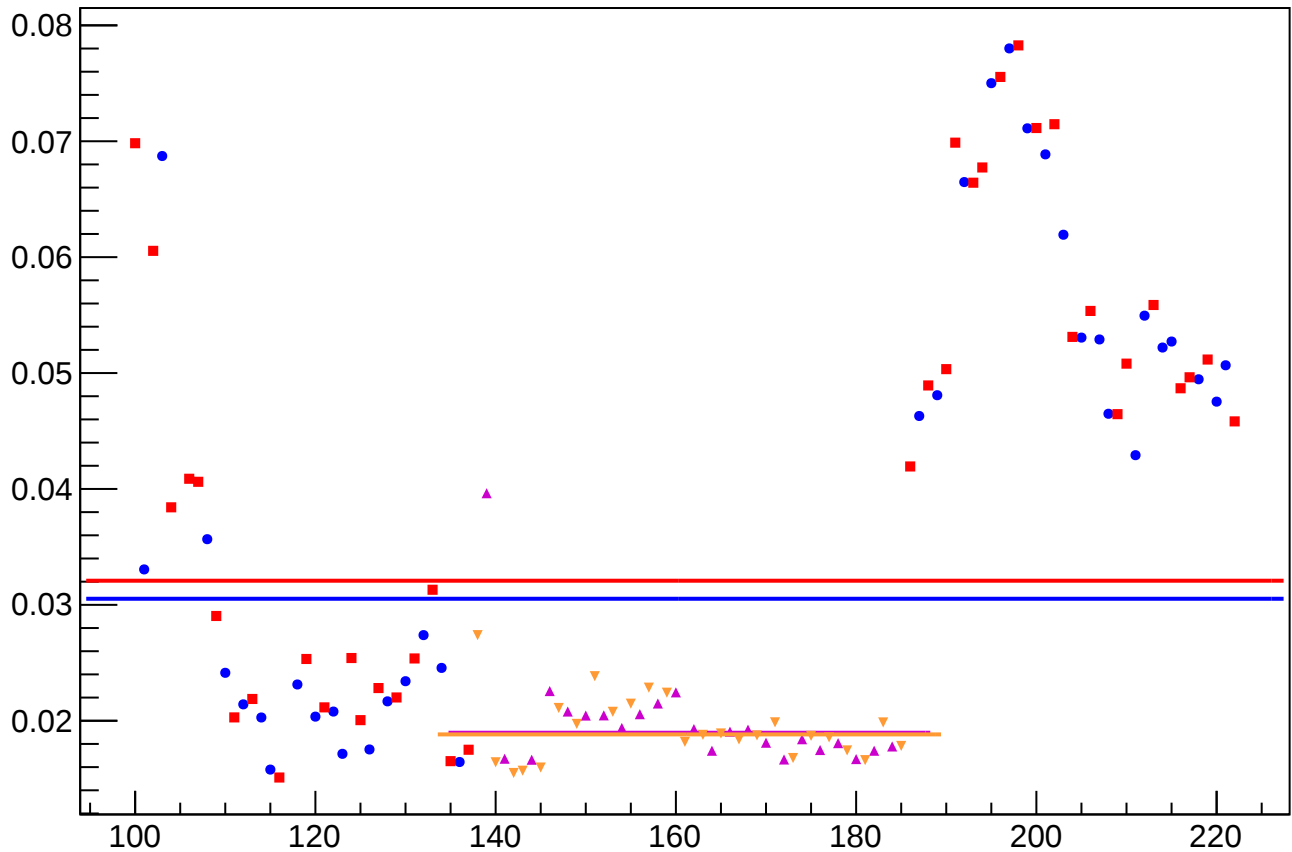
Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

+ sign -0.892 ± 0.000 χ^2/NDF : 872915229.6/59

All: -0.894 ± 0.000 χ^2/NDF : 2022722263.7/1

- sign -0.896 ± 0.000 χ^2/NDF : 1149367261.3/60

yield_bpm4acX_rms vs Slug



Right In: 0.031+/-0.000 χ^2/NDF : 8056071.2/34

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7876087.5/37

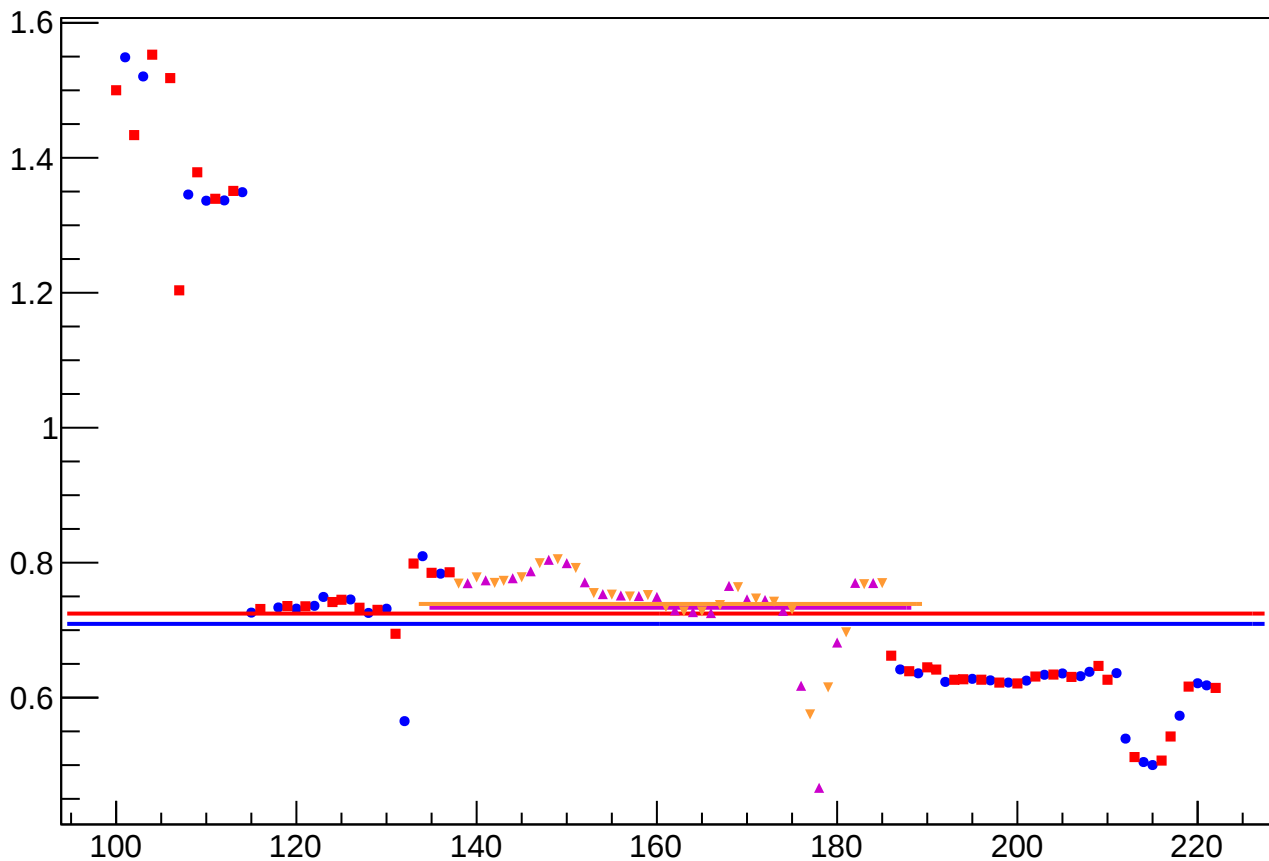
Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

+ sign 0.022+/-0.000 χ^2/NDF : 11562252.4/59

All: 0.022+/-0.000 χ^2/NDF : 23685481.0/120

- sign 0.023+/-0.000 χ^2/NDF : 12102588.7/60

yield_bpm4acY_mean vs Slug



Right In: 0.709 $\pm$ 0.000 χ^2 /NDF: 3934497830.7/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.725 $\pm$ 0.000 χ^2 /NDF: 4258446615.9/37

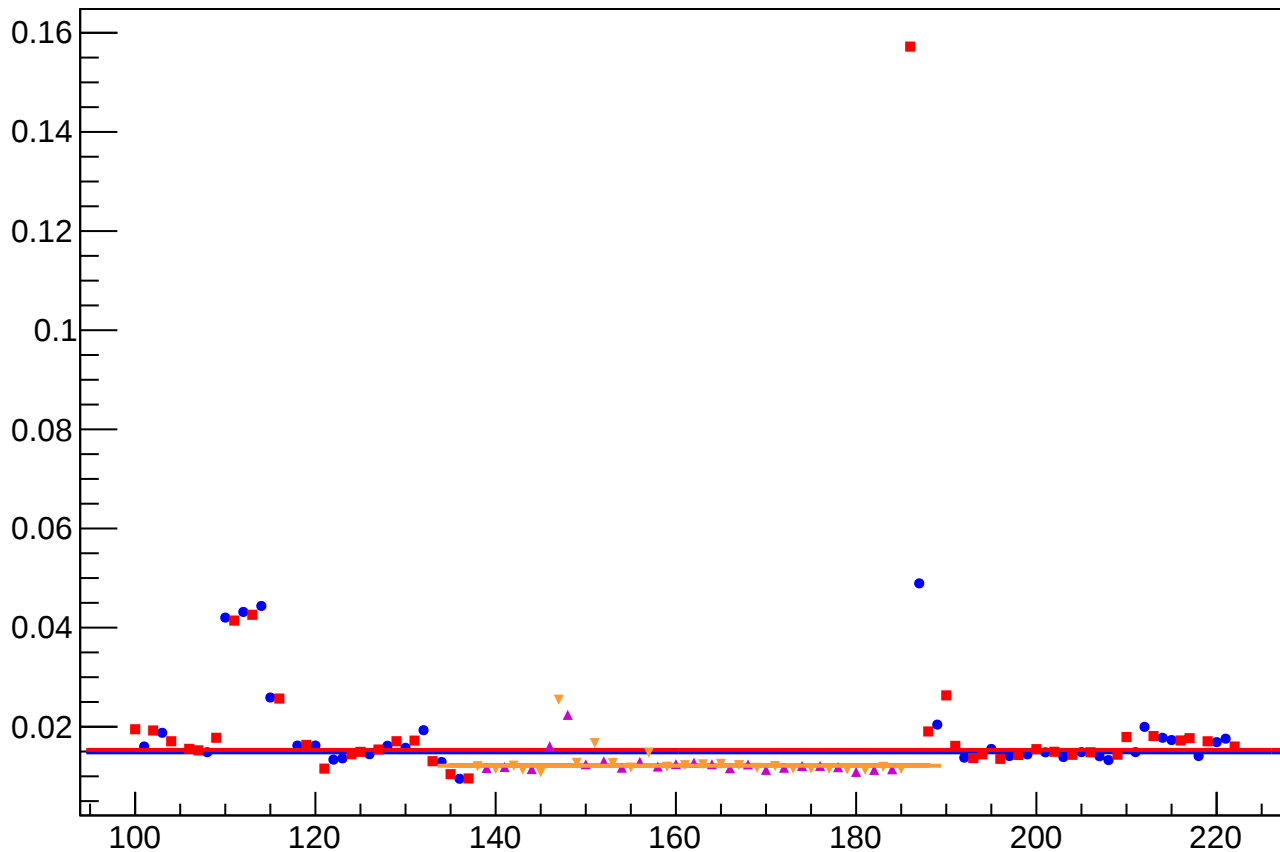
Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

+ sign 0.727 $\pm$ 0.000 χ^2 /NDF: 4309251844.1/59

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 9141435052.9/12

- sign 0.730 $\pm$ 0.000 χ^2 /NDF: 4831495721.9/60

yield_bpm4acY_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 1884788.1/34

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2235865.4/37

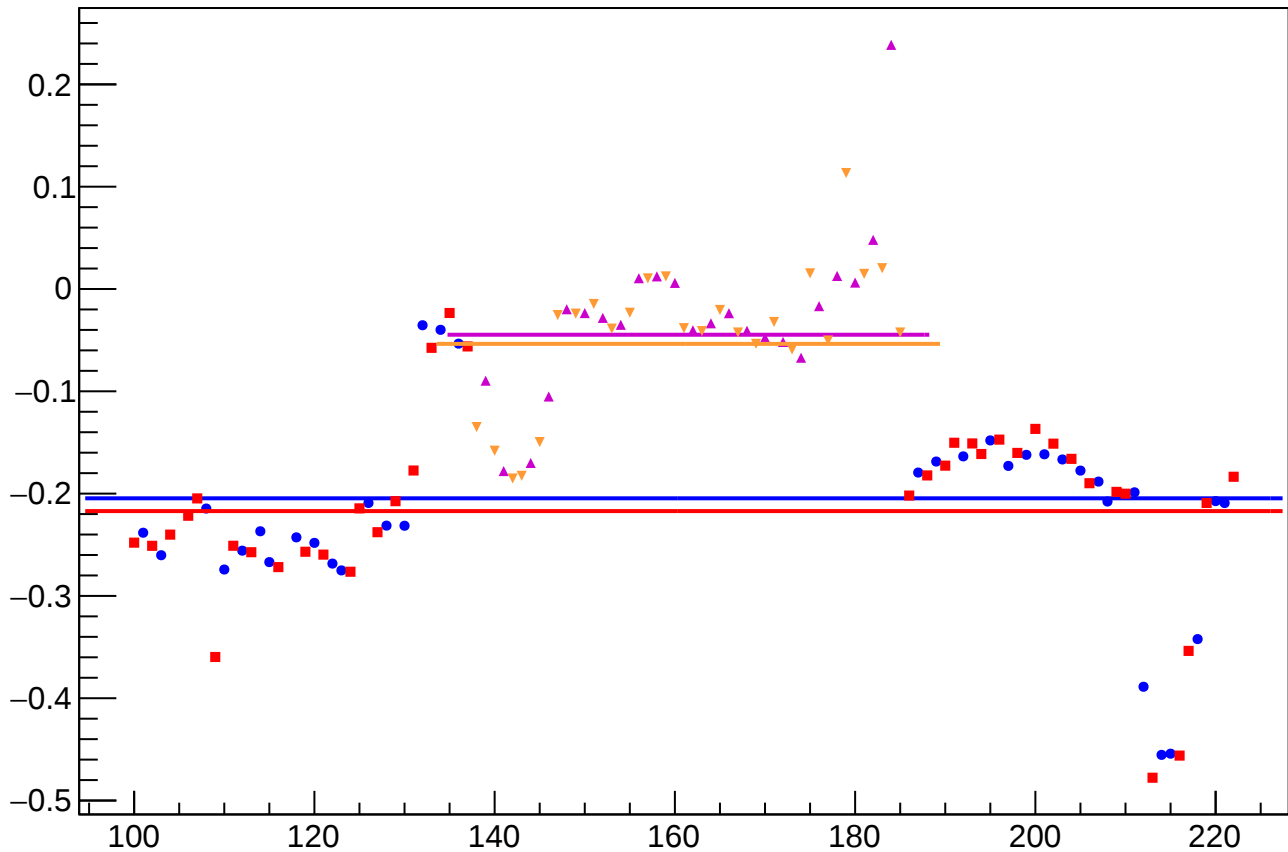
Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

+ sign 0.013+/-0.000 χ^2/NDF : 3222813.3/59

All: 0.013+/-0.000 χ^2/NDF : 6856161.6/120

- sign 0.013+/-0.000 χ^2/NDF : 3621014.7/60

yield_bpm4ecX_mean vs Slug



Right In: -0.205 ± 0.000 χ^2/NDF : 160414534.6/34

Left Out: -0.054 ± 0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.217 ± 0.000 χ^2/NDF : 156742264.9/37

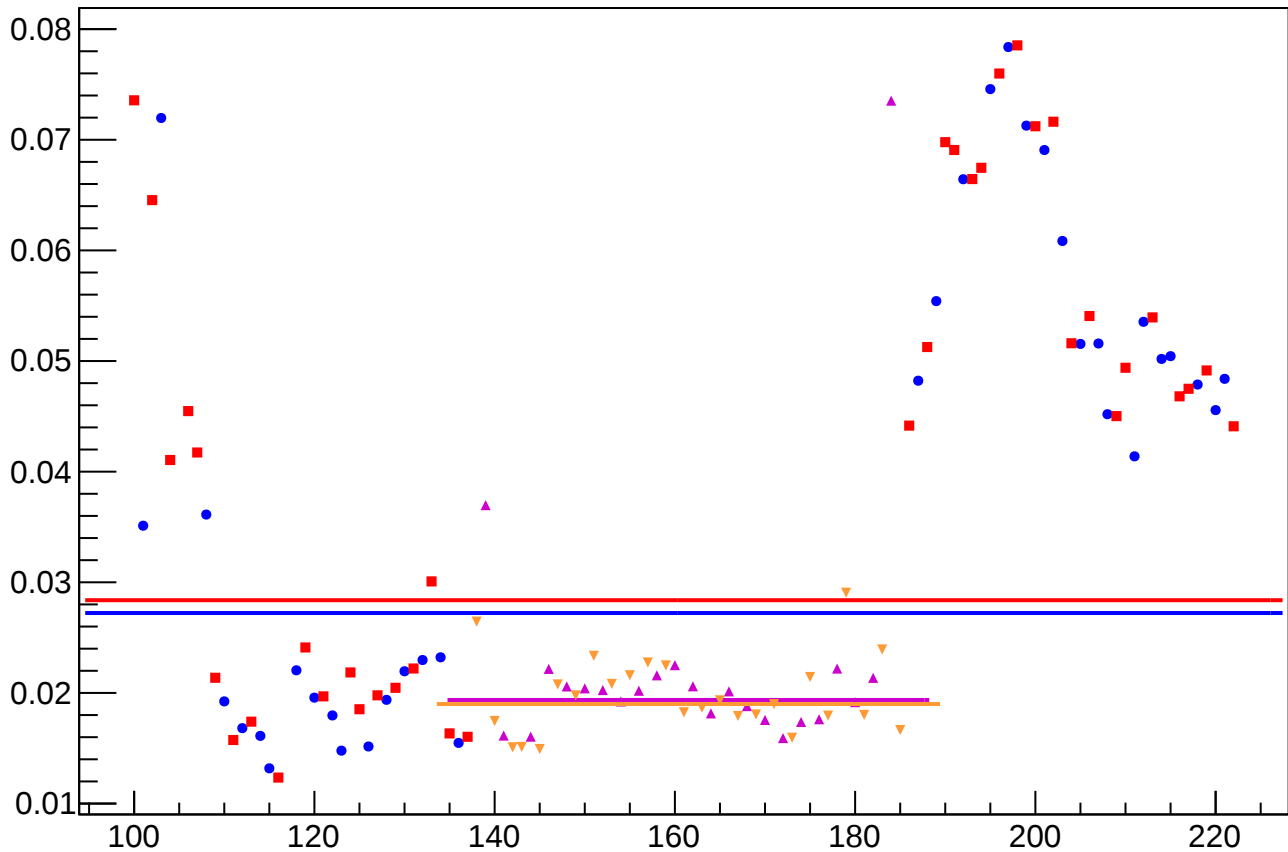
Left In: -0.045 ± 0.000 χ^2/NDF : 127192425.2/22

+ sign -0.100 ± 0.000 χ^2/NDF : 610283831.9/59

All: -0.100 ± 0.000 χ^2/NDF : 1243622729.9/1

- sign -0.100 ± 0.000 χ^2/NDF : 633337668.2/60

yield_bpm4ecX_rms vs Slug



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 9483309.5/34

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9722494.6/37

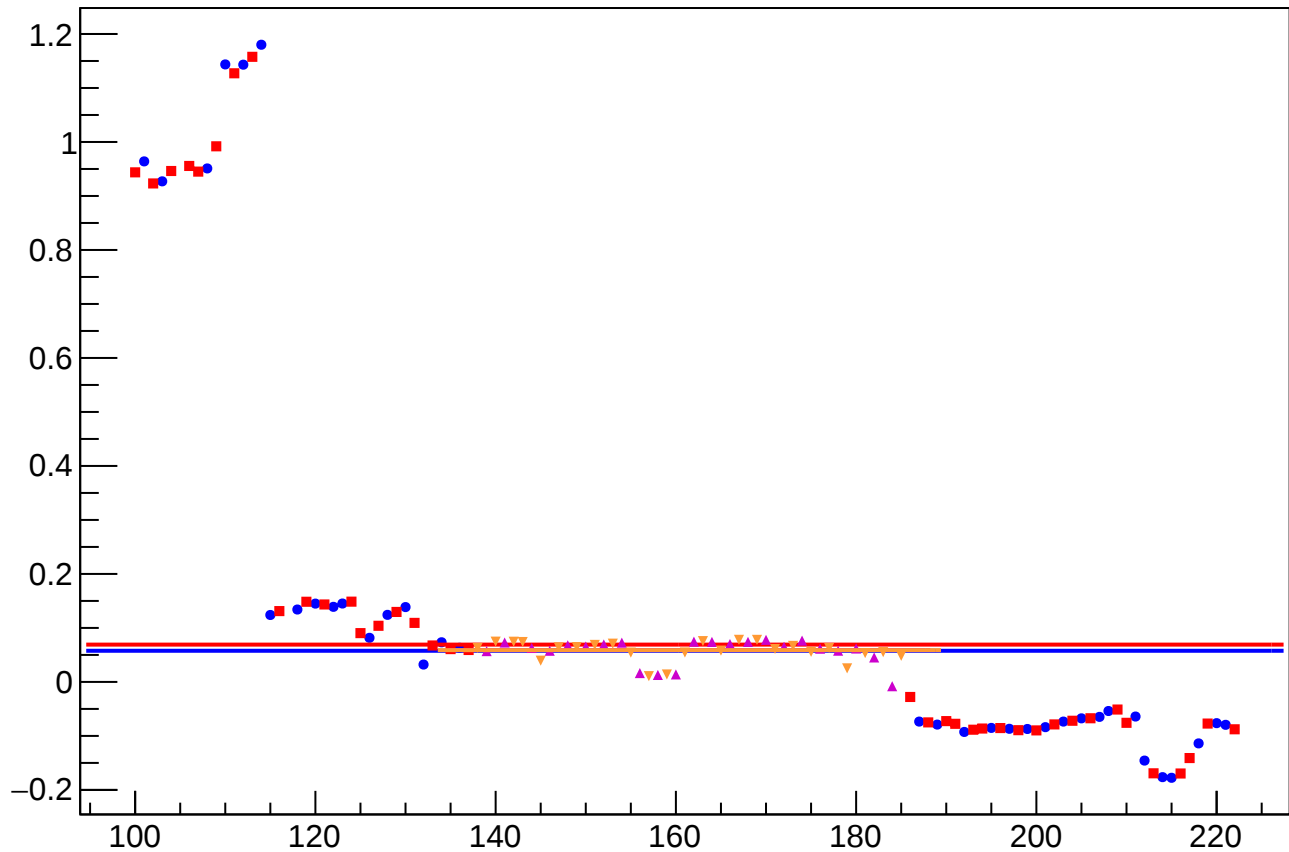
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

+ sign 0.022 $\pm$ 0.000 χ^2 /NDF: 11859136.3/59

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 24381366.7/120

- sign 0.022 $\pm$ 0.000 χ^2 /NDF: 12492812.6/60

yield_bpm4ecY_mean vs Slug



Right In: 0.058 $\pm$ 0.000 χ^2 /NDF: 8877075063.0/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:46821236.8/24

Right Out: 0.069 $\pm$ 0.000 χ^2 /NDF: 9807491922.3/37

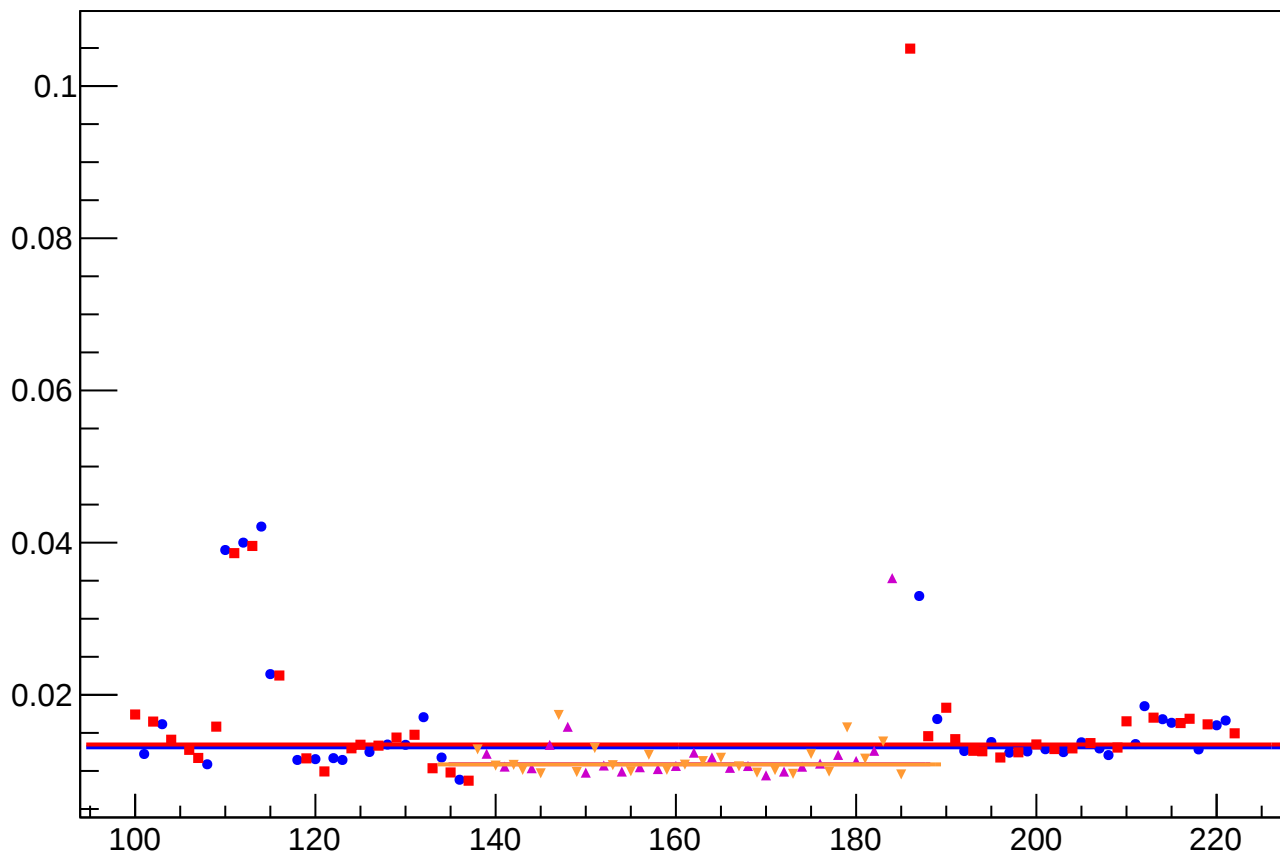
Left In: 0.059 $\pm$ 0.000 χ^2 /NDF:58518655.0/22

+ sign 0.058 $\pm$ 0.000 χ^2 /NDF: 8923977258.4/59

All: 0.061 $\pm$ 0.000 χ^2 /NDF: 18798733102.2/1

- sign 0.063 $\pm$ 0.000 χ^2 /NDF: 9871786822.3/60

yield_bpm4ecY_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 1870229.3/34

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2213474.7/37

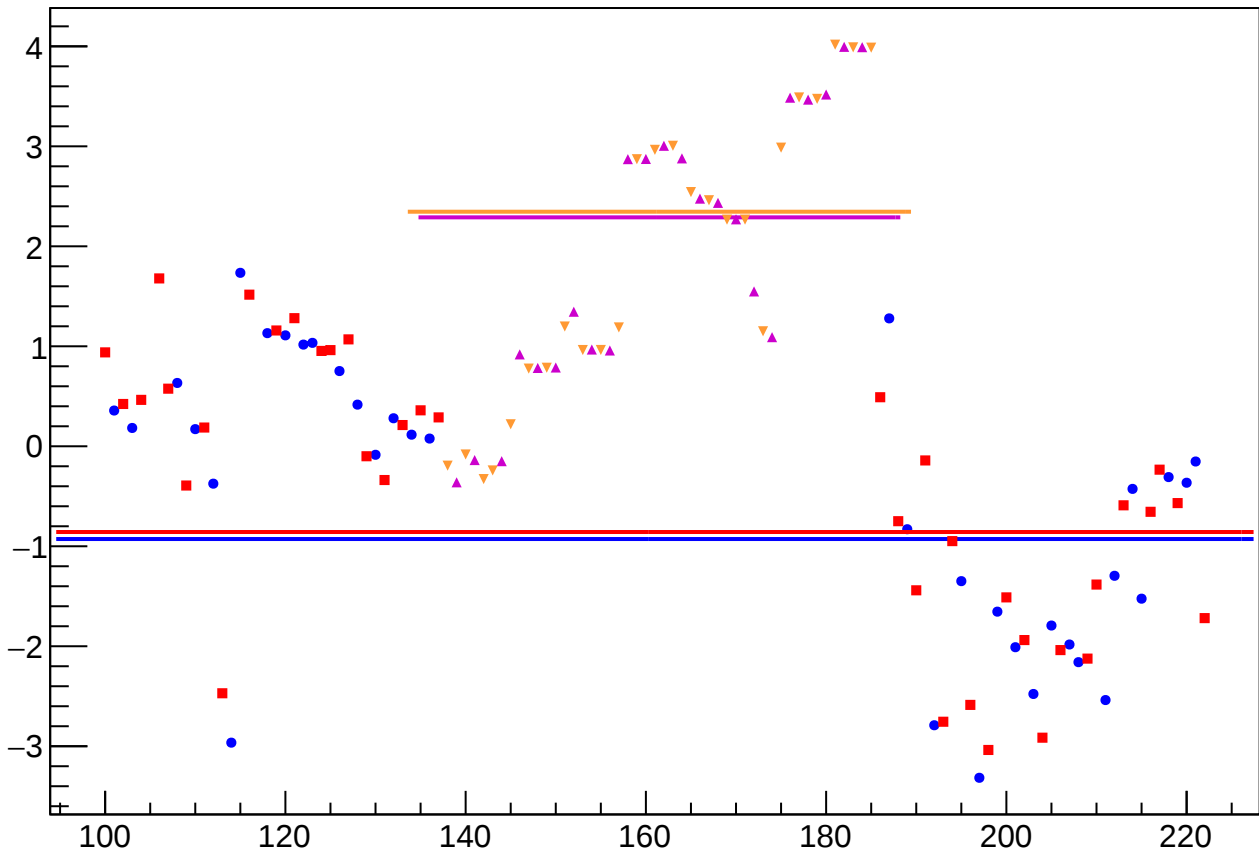
Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 530077.5/22

+ sign 0.012 $\pm$ 0.000 χ^2/NDF : 3077070.2/59

All: 0.012 $\pm$ 0.000 χ^2/NDF : 6599451.1/120

- sign 0.012 $\pm$ 0.000 χ^2/NDF : 3513248.7/60

yield_bpm1X_mean vs Slug



Right In: -0.928 ± 0.000 χ^2/NDF : 8163576525.3/34

Left Out: 2.346 ± 0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.857 ± 0.000 χ^2/NDF : 8583562868.8/37

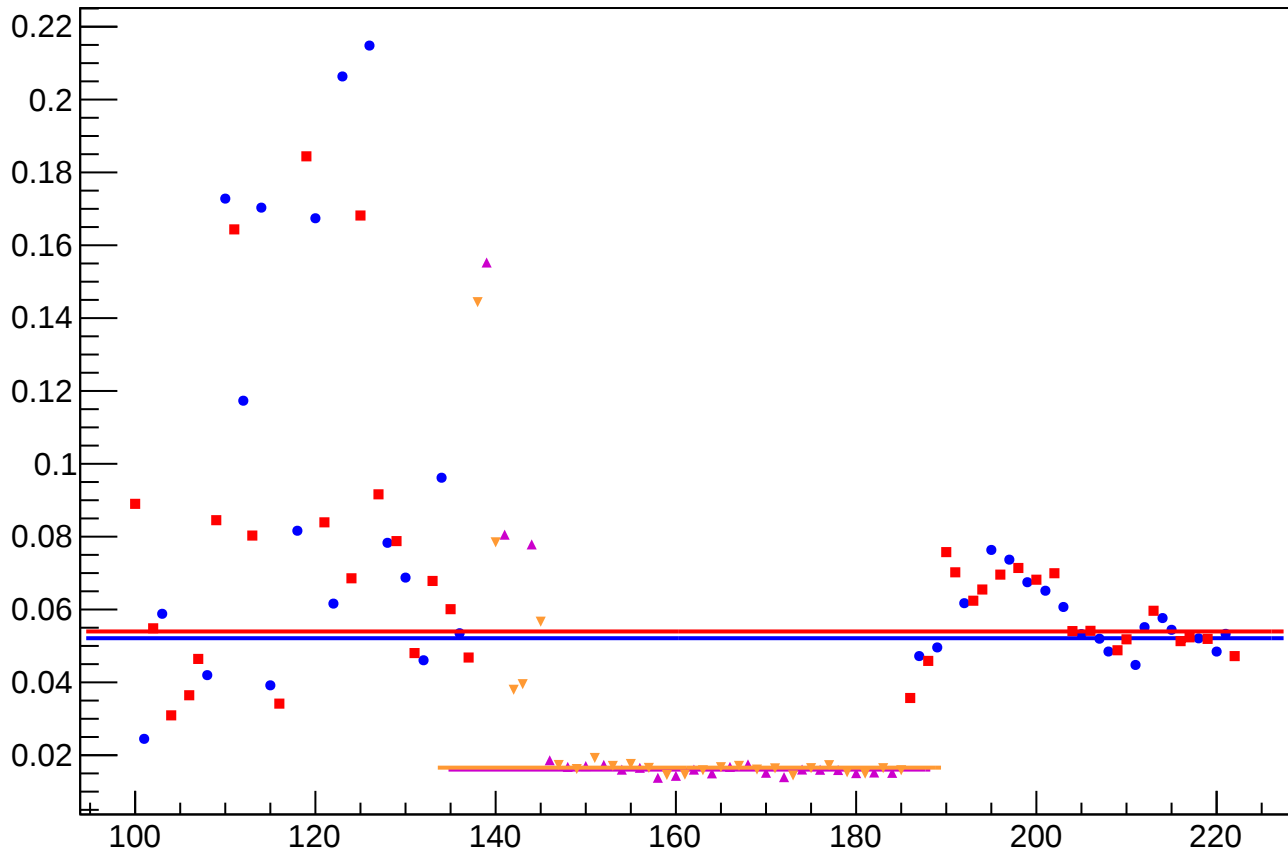
Left In: 2.290 ± 0.000 χ^2/NDF : 60875537647.3/22

+ sign 2.021 ± 0.000 χ^2/NDF : 125854097751.4/59

All: 2.002 ± 0.000 χ^2/NDF : 245393493930.8

- sign 1.983 ± 0.000 χ^2/NDF : 119498028110.8/60

yield_bpm1X_rms vs Slug



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3576238.7/34

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2919452.9/37

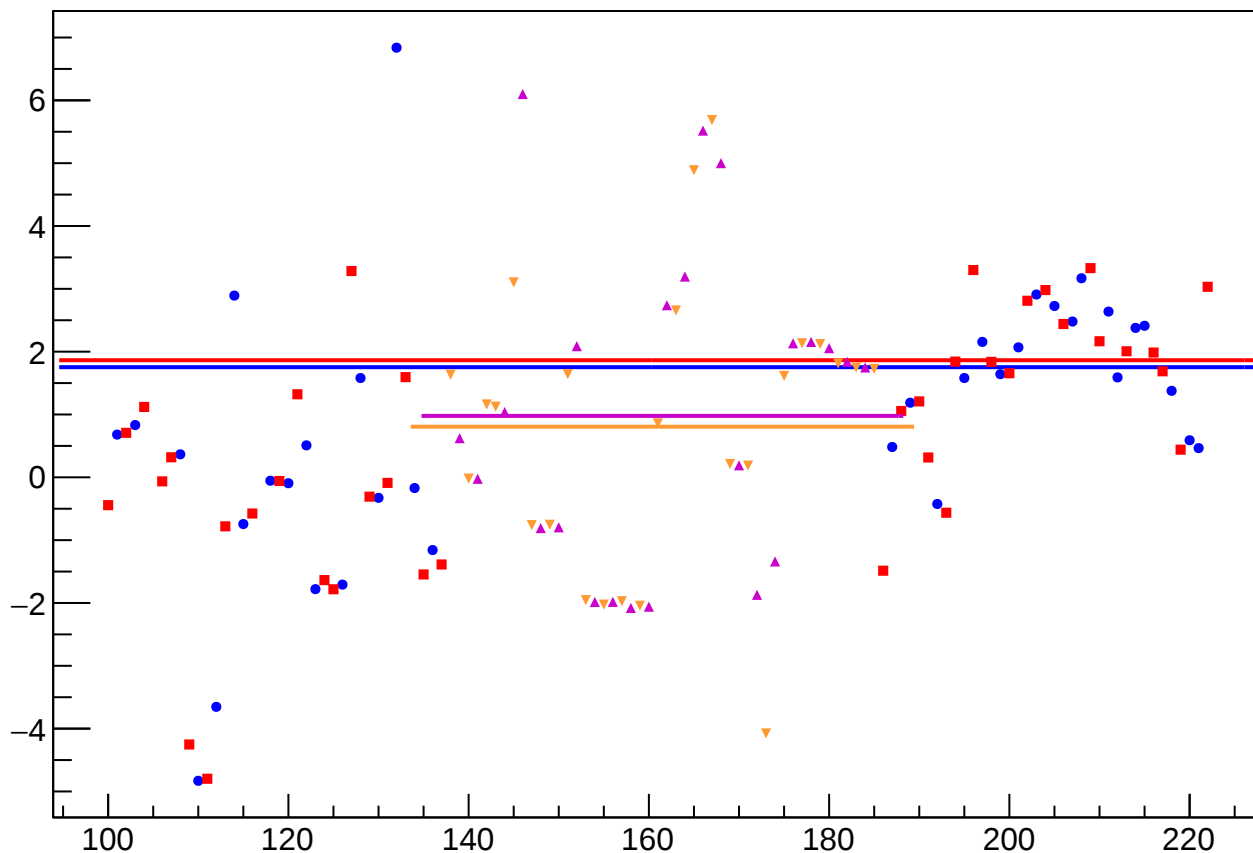
Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

+ sign 0.020 $\pm$ 0.000 χ^2 /NDF: 18972400.4/59

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 38830690.9/120

- sign 0.020 $\pm$ 0.000 χ^2 /NDF: 19850490.2/60

yield_bpm1Y_mean vs Slug



Right In: 1.753+/-0.000 χ^2/NDF : 45797526229.3/34

Left Out: 0.806+/-0.000 χ^2/NDF : 507578952196.2/24

Right Out: 1.864+/-0.000 χ^2/NDF : 47750370786.9/37

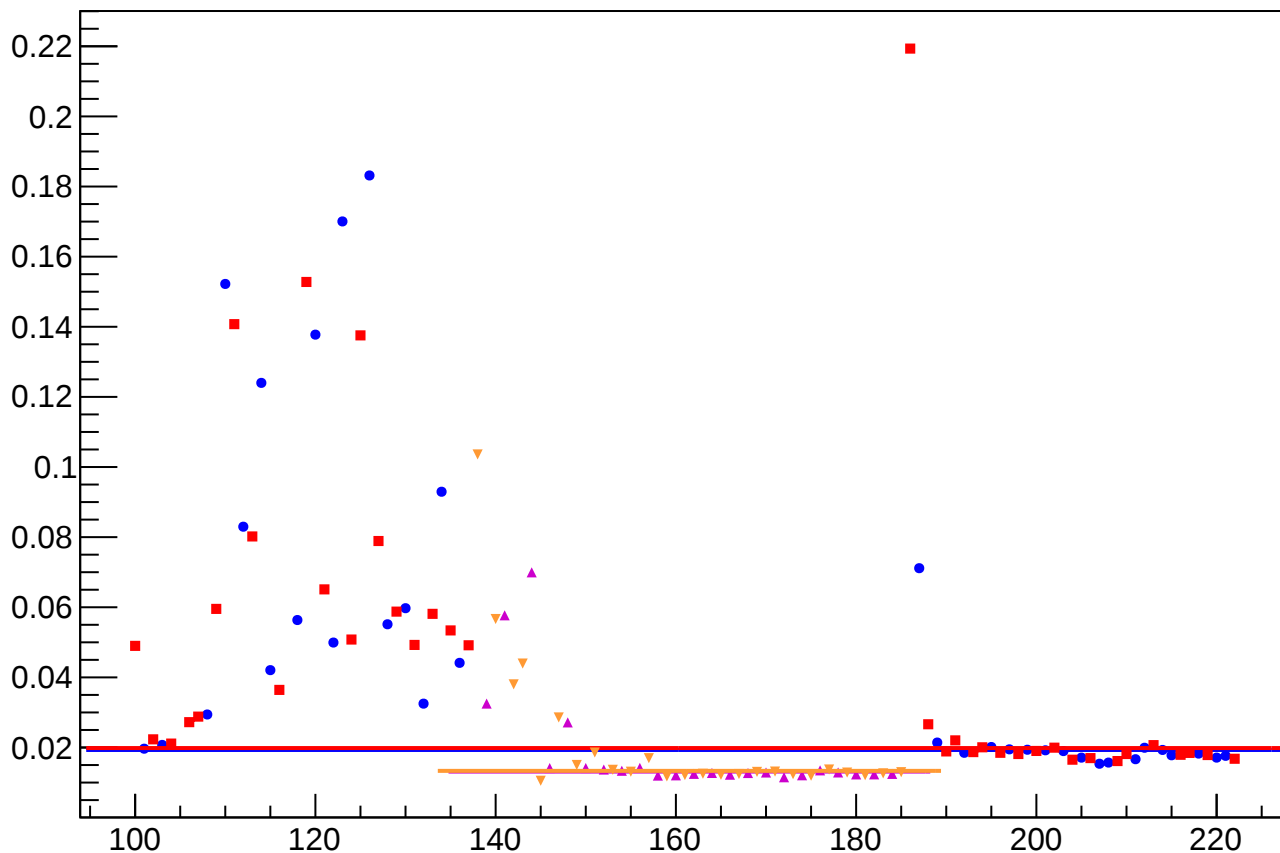
Left In: 0.977+/-0.000 χ^2/NDF : 568209676597.4/22

+ sign 1.094+/-0.000 χ^2/NDF : 576526688148.3/59

All: 1.169+/-0.000 χ^2/NDF : 1213882888279.

- sign 1.243+/-0.000 χ^2/NDF : 636002878159.0/60

yield_bpm1Y_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 4249075.8/34

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5279660.7/37

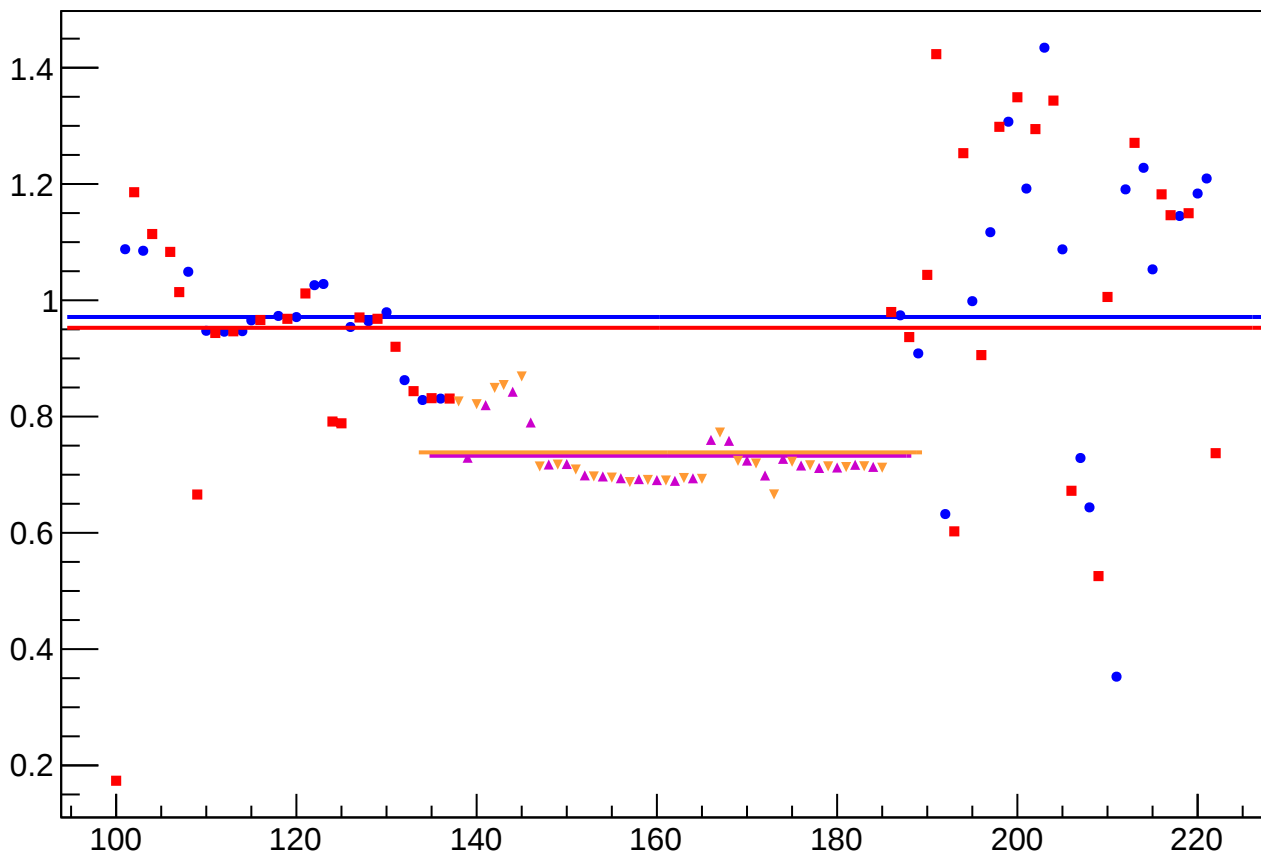
Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

+ sign 0.015+/-0.000 χ^2/NDF : 8912605.7/59

All: 0.015+/-0.000 χ^2/NDF : 18433891.8/120

- sign 0.015+/-0.000 χ^2/NDF : 9521284.7/60

yield_bpm11X_mean vs Slug



Right In: 0.971 $\pm$ 0.000 χ^2 /NDF: 1116443050.6/34

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310195180.4/24

Right Out: 0.953 $\pm$ 0.000 χ^2 /NDF: 1401054255.7/37

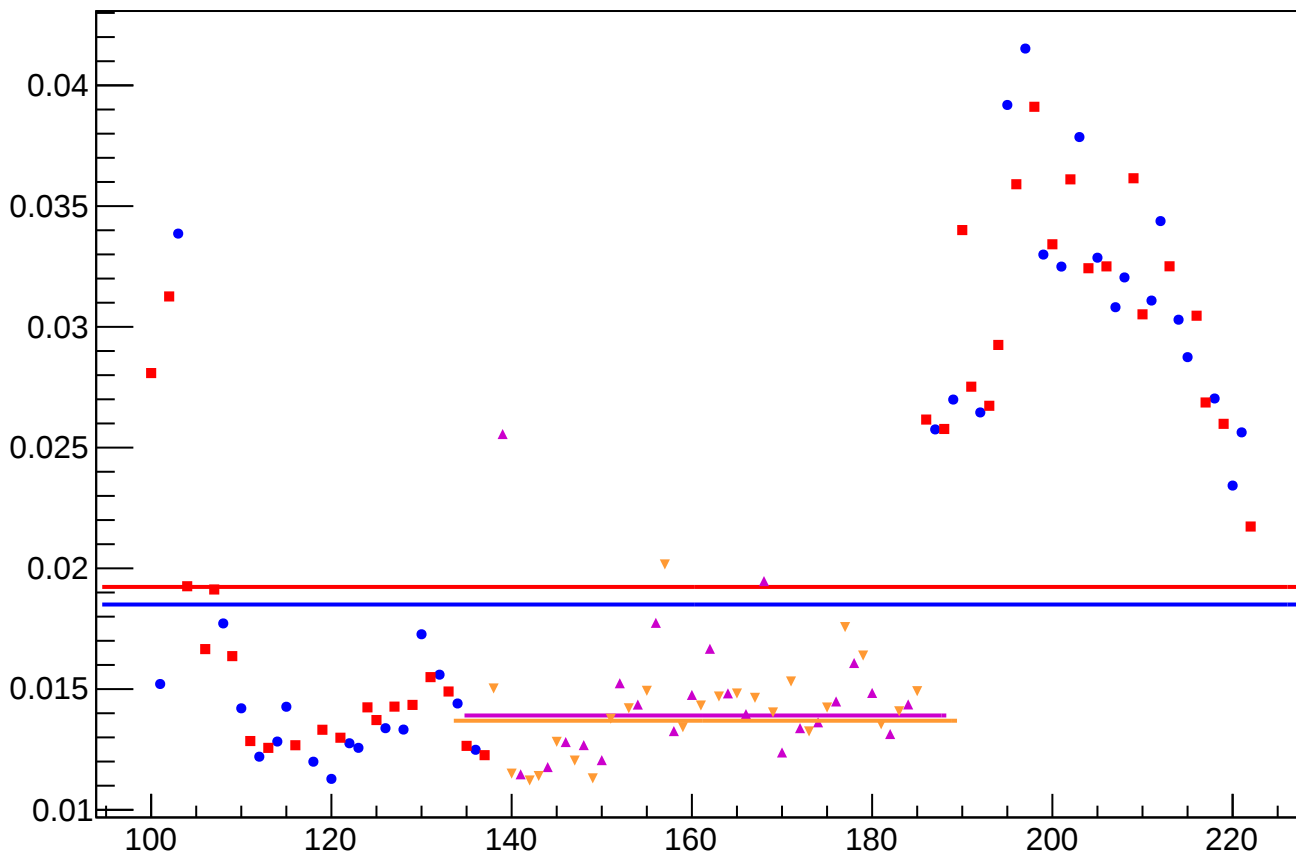
Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

+ sign 0.817 $\pm$ 0.000 χ^2 /NDF: 2997355876.1/59

All: 0.813 $\pm$ 0.000 χ^2 /NDF: 5934347276.3/12

- sign 0.810 $\pm$ 0.000 χ^2 /NDF: 2934398590.2/60

yield_bpm11X_rms vs Slug



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 5892882.0/34

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:528480.6/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 5249015.2/37

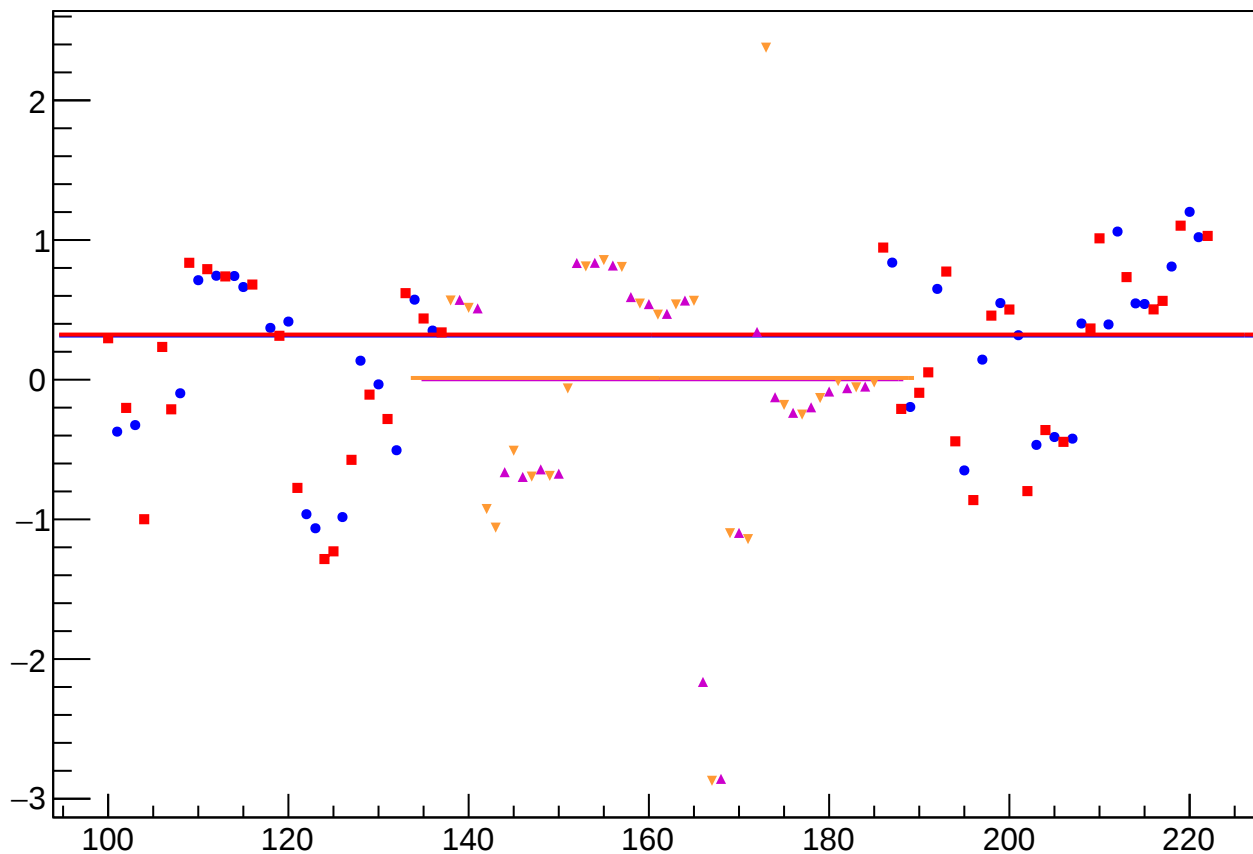
Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:768161.9/22

+ sign 0.015 $\pm$ 0.000 χ^2 /NDF: 7762981.3/59

All: 0.016 $\pm$ 0.000 χ^2 /NDF: 15404045.1/120

- sign 0.016 $\pm$ 0.000 χ^2 /NDF: 7612101.4/60

yield_bpm11Y_mean vs Slug



Right In: 0.316 $\pm$ 0.000 χ^2 /NDF: 46717698412.8/34

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:96383858927.1/24

Right Out: 0.323 $\pm$ 0.000 χ^2 /NDF: 55293632877.4/37

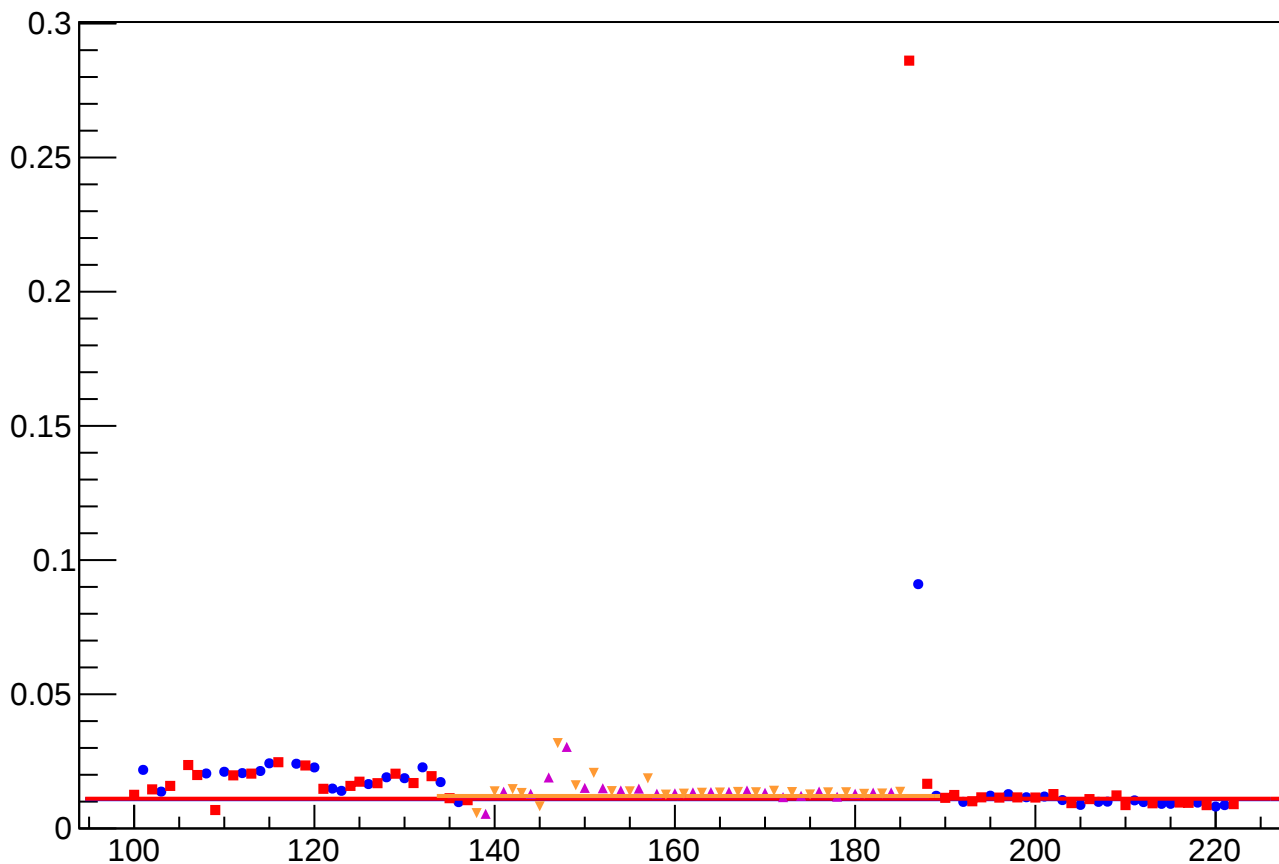
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:78826489573.0/22

+ sign 0.181 $\pm$ 0.000 χ^2 /NDF: 148691403901.7/59

All: 0.183 $\pm$ 0.000 χ^2 /NDF: 288865219278.7

- sign 0.184 $\pm$ 0.000 χ^2 /NDF: 140172640284.2/60

yield_bpm11Y_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 2905945.9/34

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3309299.0/37

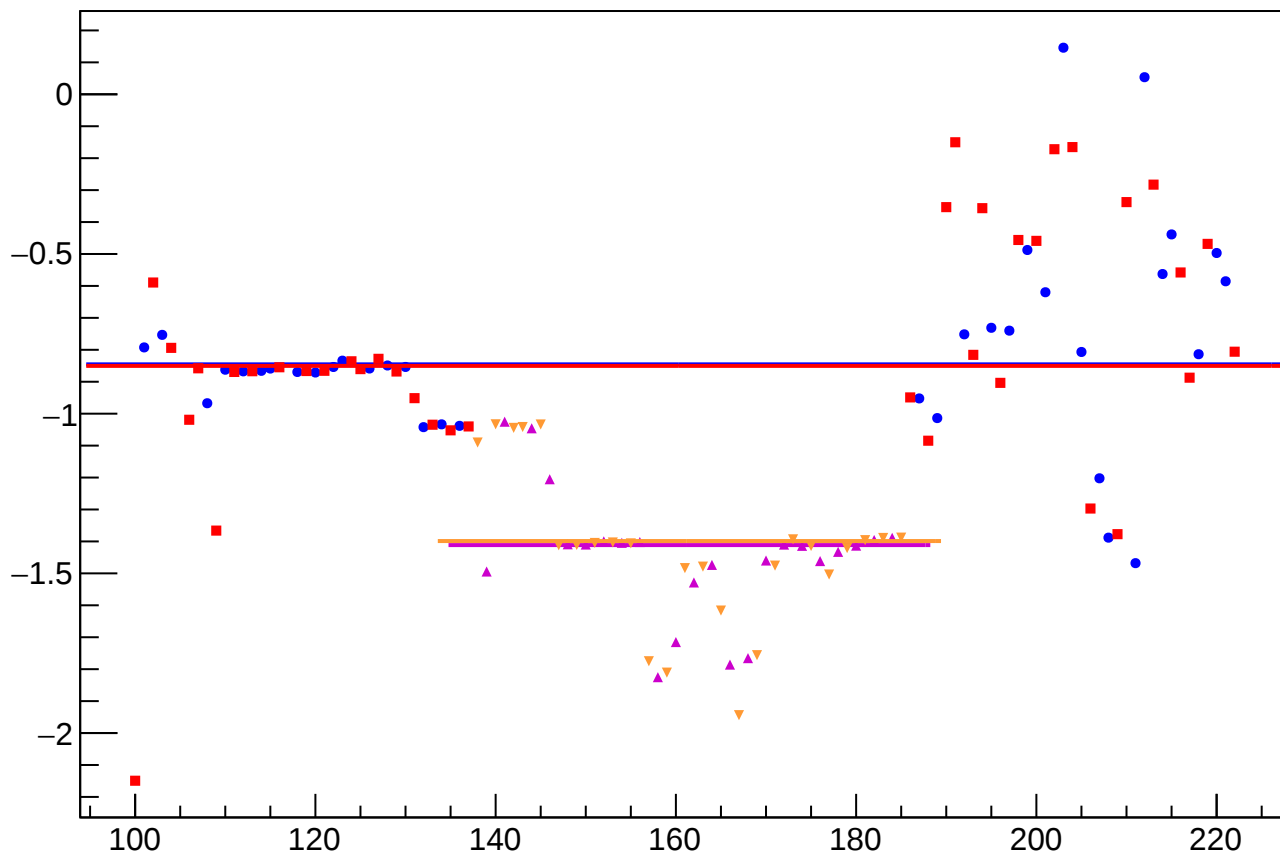
Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

+ sign 0.011+/-0.000 χ^2/NDF : 6187439.4/59

All: 0.011+/-0.000 χ^2/NDF : 12599731.6/120

- sign 0.011+/-0.000 χ^2/NDF : 6411846.4/60

yield_bpm12X_mean vs Slug



Right In: -0.846 ± 0.000 $\chi^2/\text{NDF}: 404360921.3/34$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.850 ± 0.000 $\chi^2/\text{NDF}: 518406294.5/37$

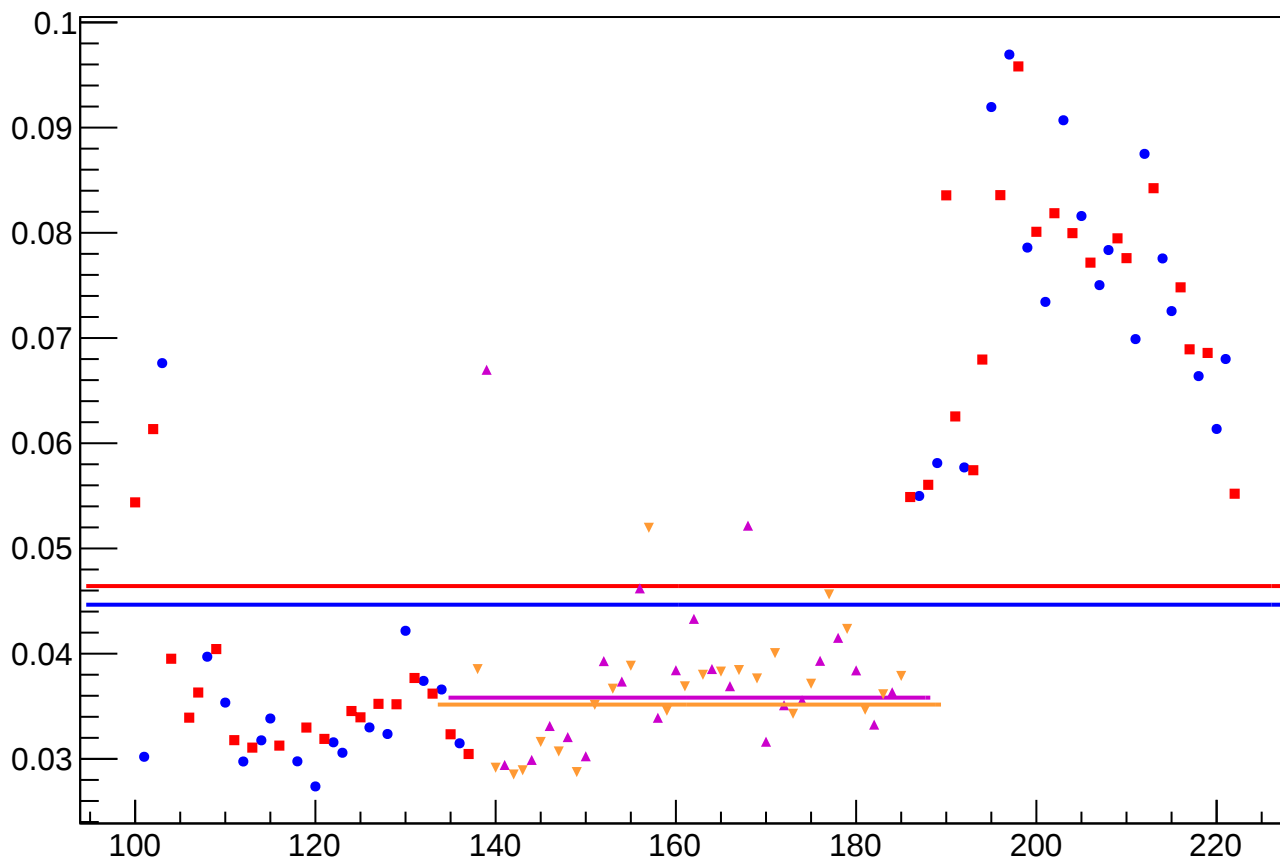
Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

+ sign -1.194 ± 0.000 $\chi^2/\text{NDF}: 2608560309.4/59$

All: -1.194 ± 0.000 $\chi^2/\text{NDF}: 5093941184.0/1$

- sign -1.194 ± 0.000 $\chi^2/\text{NDF}: 2485375765.9/60$

yield_bpm12X_rms vs Slug



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 5795814.0/34

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4947525.9/37

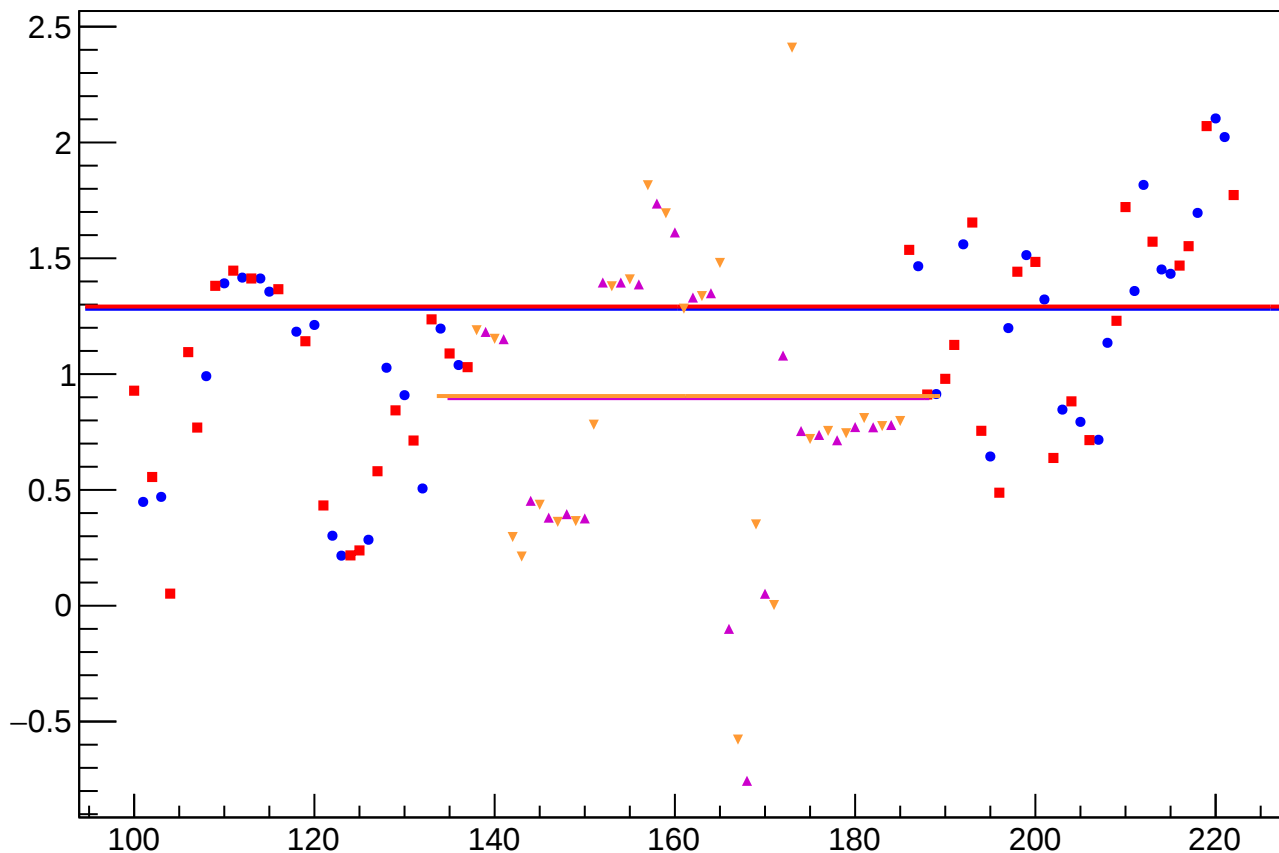
Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

+ sign 0.039 $\pm$ 0.000 χ^2 /NDF: 7254390.4/59

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 14137198.5/120

- sign 0.040 $\pm$ 0.000 χ^2 /NDF: 6850728.2/60

yield_bpm12Y_mean vs Slug



Right In: 1.282 $\pm$ 0.000 χ^2 /NDF: 81832804512.4/34

Left Out: 0.905 $\pm$ 0.000 χ^2 /NDF: 84265726513.8/24

Right Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 77607559735.7/37

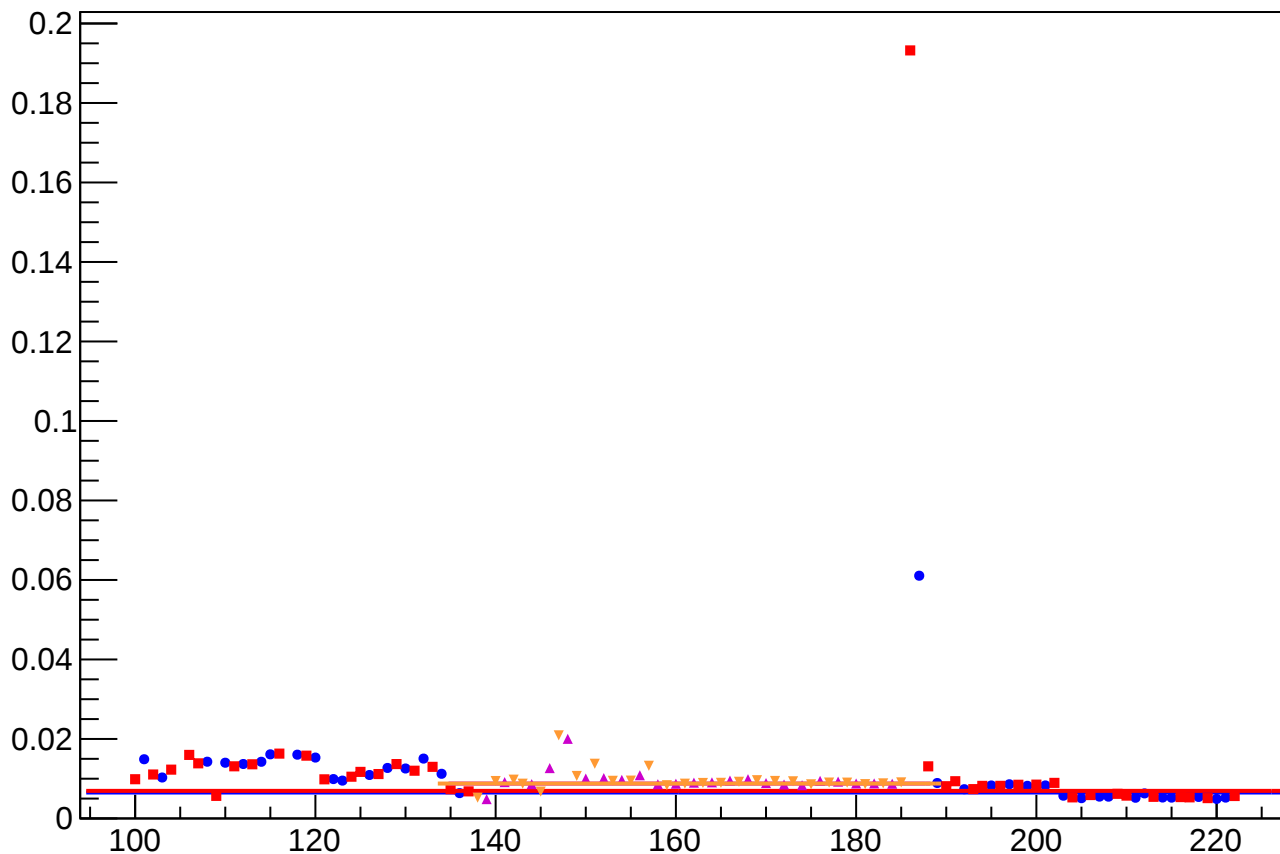
Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

+ sign 1.144 $\pm$ 0.000 χ^2 /NDF: 185753866487.3/59

All: 1.144 $\pm$ 0.000 χ^2 /NDF: 350043769351.0

- sign 1.144 $\pm$ 0.000 χ^2 /NDF: 164289808644.1/60

yield_bpm12Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 4079901.7/34

Left Out: 0.009+/-0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4412065.6/37

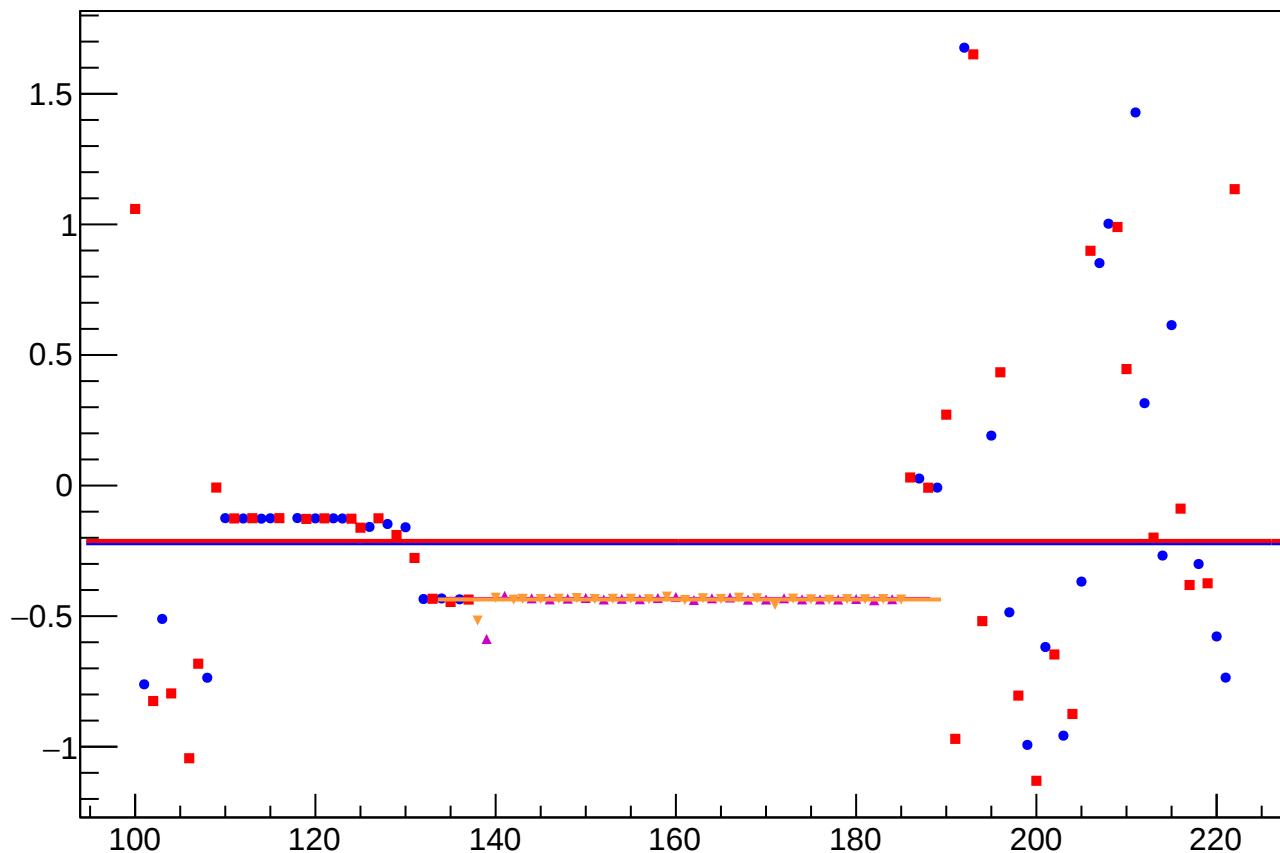
Left In: 0.009+/-0.000 χ^2/NDF : 1607939.0/22

+ sign 0.007+/-0.000 χ^2/NDF : 7180858.1/59

All: 0.007+/-0.000 χ^2/NDF : 14104674.2/120

- sign 0.008+/-0.000 χ^2/NDF : 6882276.1/60

yield_bpm16X_mean vs Slug



Right In: -0.221 ± 0.000 χ^2/NDF : 5105796901.7/34

Left Out: -0.436 ± 0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.212 ± 0.000 χ^2/NDF : 4366199433.8/37

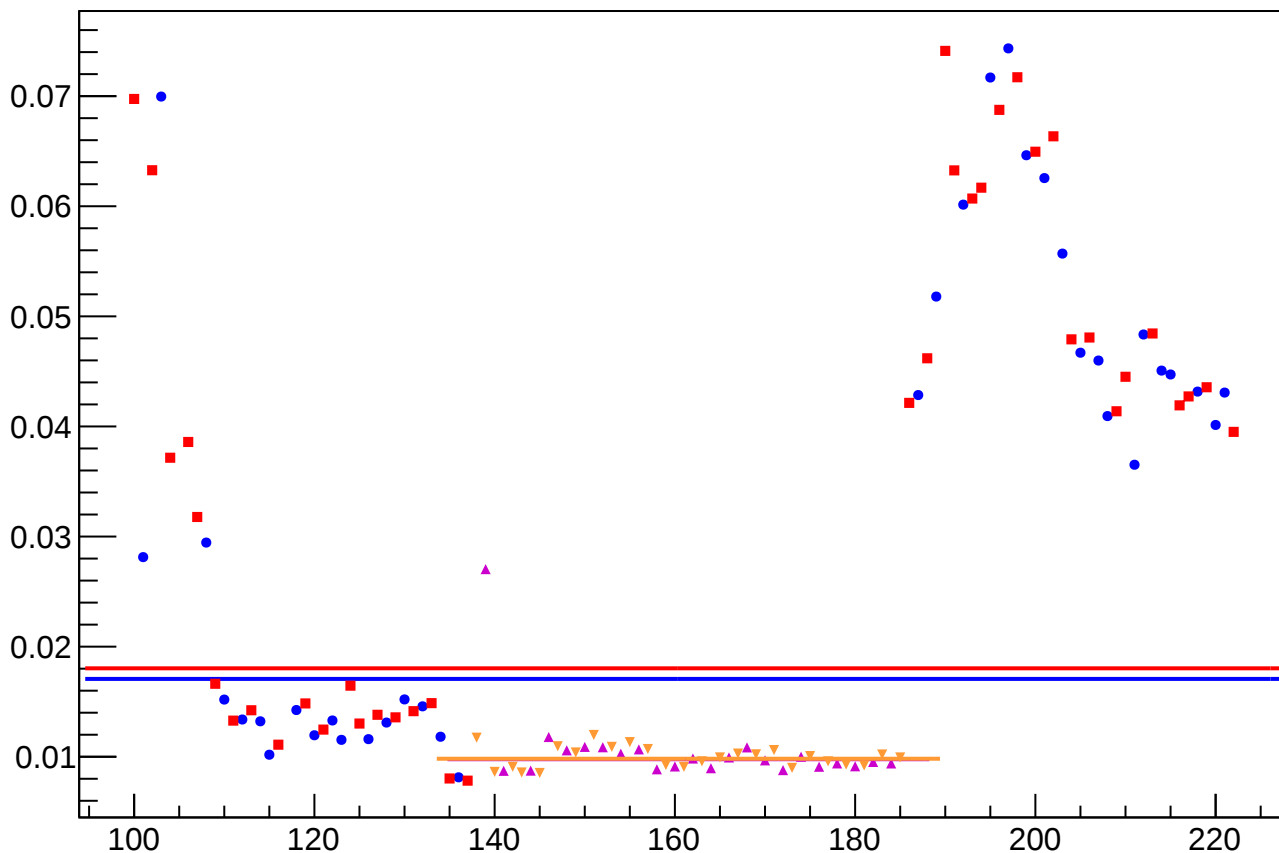
Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

+ sign -0.396 ± 0.000 χ^2/NDF : 6534016726.6/59

All: -0.394 ± 0.000 χ^2/NDF : 12327958035.5/117

- sign -0.393 ± 0.000 χ^2/NDF : 5792765672.0/60

yield_bpm16X_rms vs Slug



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 13940132.0/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 269242.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 14296956.1/37

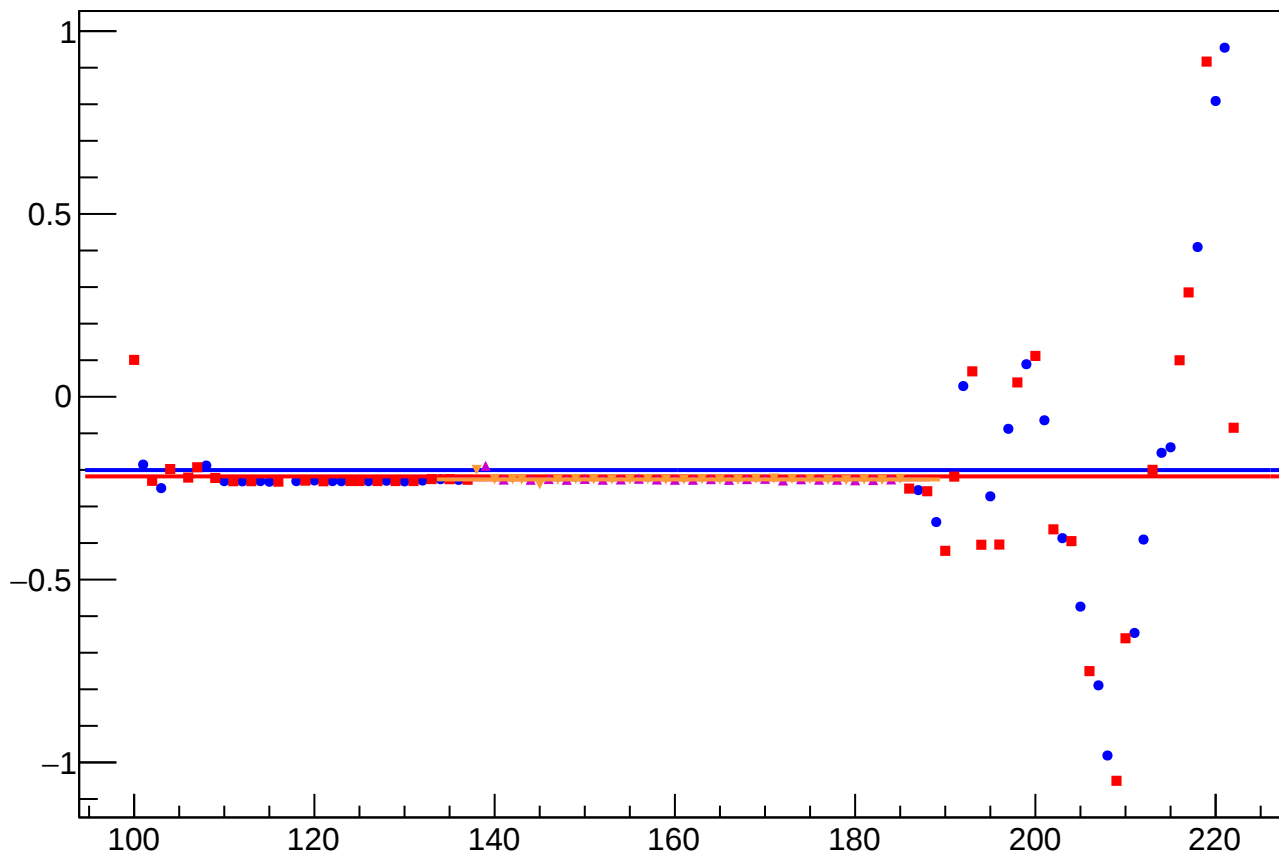
Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 747550.0/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 17383558.1/59

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 36306967.4/120

- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 18919379.0/60

yield_bpm16Y_mean vs Slug



Right In: -0.200 ± 0.000 χ^2/NDF : 55629867224.8/34

Left Out: -0.226 ± 0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.218 ± 0.000 χ^2/NDF : 47100628668.3/37

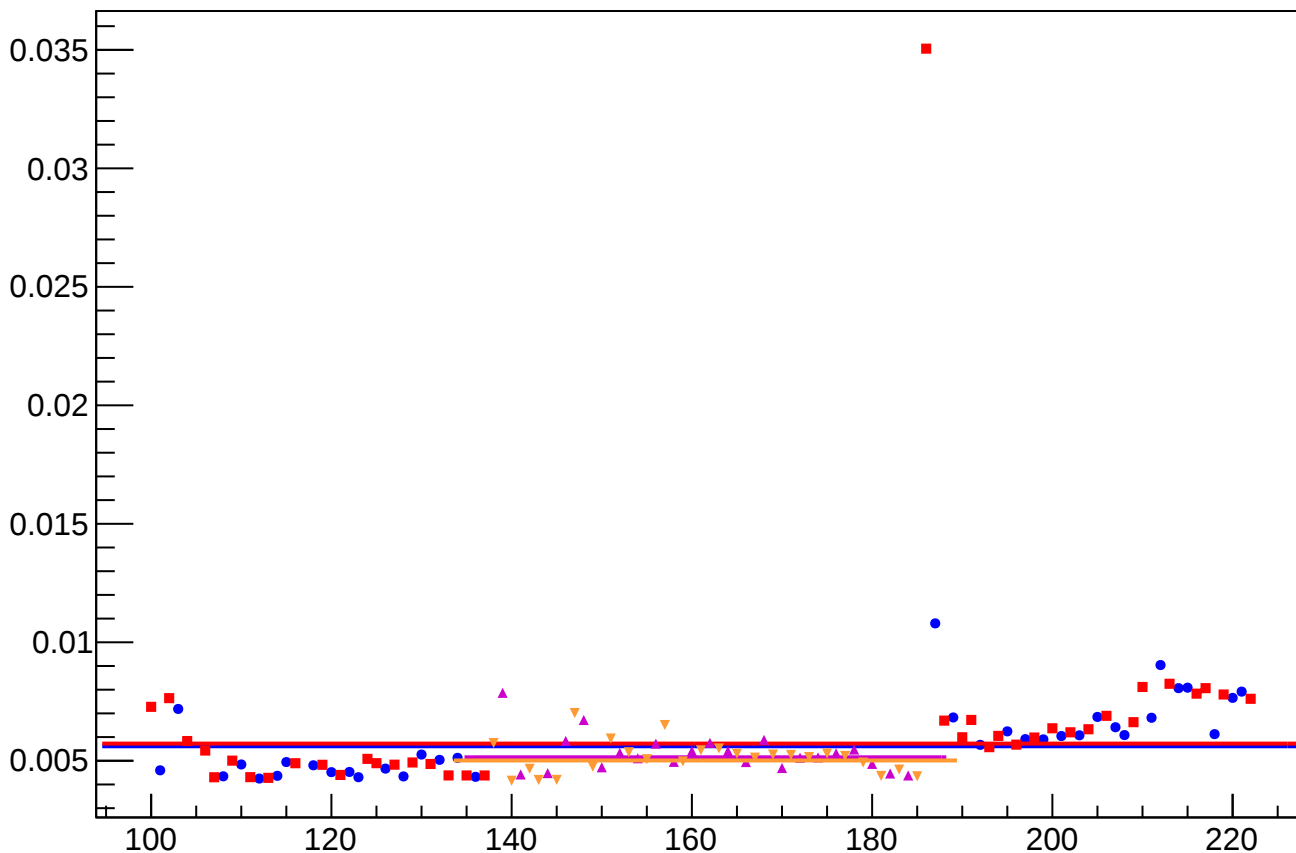
Left In: -0.226 ± 0.000 χ^2/NDF : 15245251.1/22

+ sign -0.215 ± 0.000 χ^2/NDF : 55850095307.5/59

All: -0.218 ± 0.000 χ^2/NDF : 103016481397.2

- sign -0.222 ± 0.000 χ^2/NDF : 47134419057.2/60

yield_bpm16Y_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1559308.5/34

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:530632.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 2075130.6/37

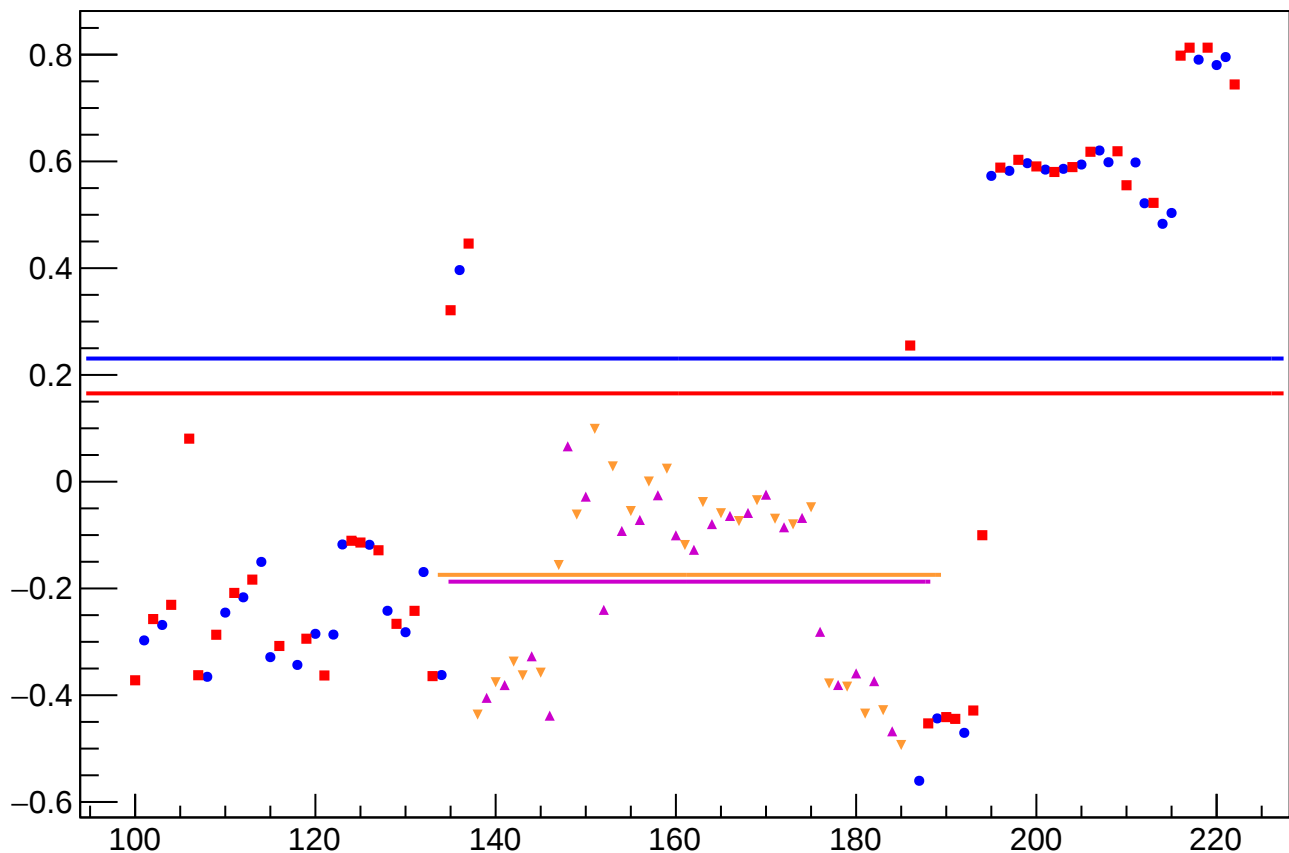
Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:493107.7/22

+ sign 0.005 $\pm$ 0.000 χ^2 /NDF: 2308999.4/59

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 5095588.6/120

- sign 0.005 $\pm$ 0.000 χ^2 /NDF: 2763116.4/60

yield_bpm0i02X_mean vs Slug



Right In: 0.231+/-0.000 χ^2/NDF : 81059137395.0/34

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: 0.165+/-0.000 χ^2/NDF : 90584337117.2/37

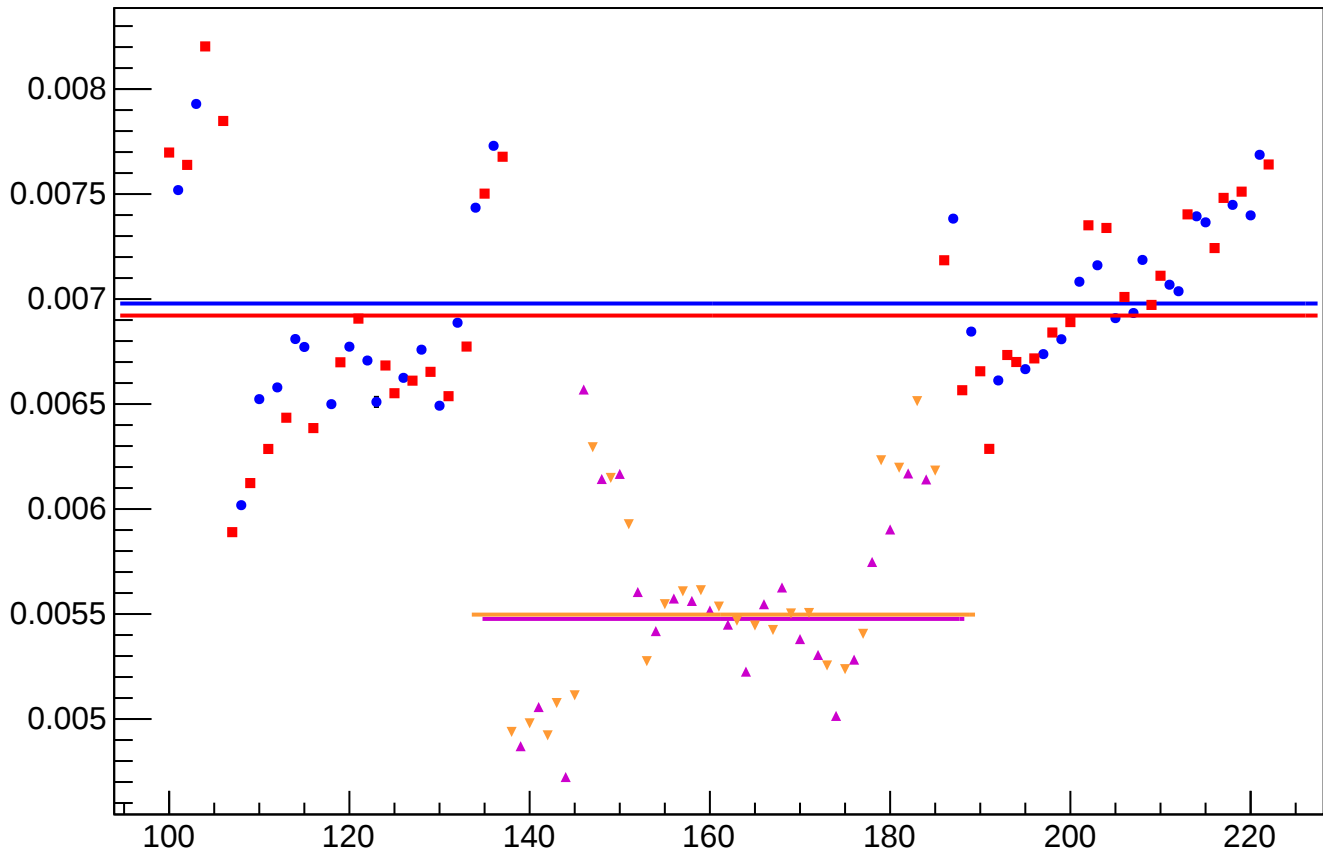
Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

+ sign -0.011+/-0.000 χ^2/NDF : 137448879957.9/59

All: -0.023+/-0.000 χ^2/NDF : 270491757474.9

- sign -0.035+/-0.000 χ^2/NDF : 132751499134.7/60

yield_bpm0i02X_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 125136.7/34

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:198746.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 182277.6/37

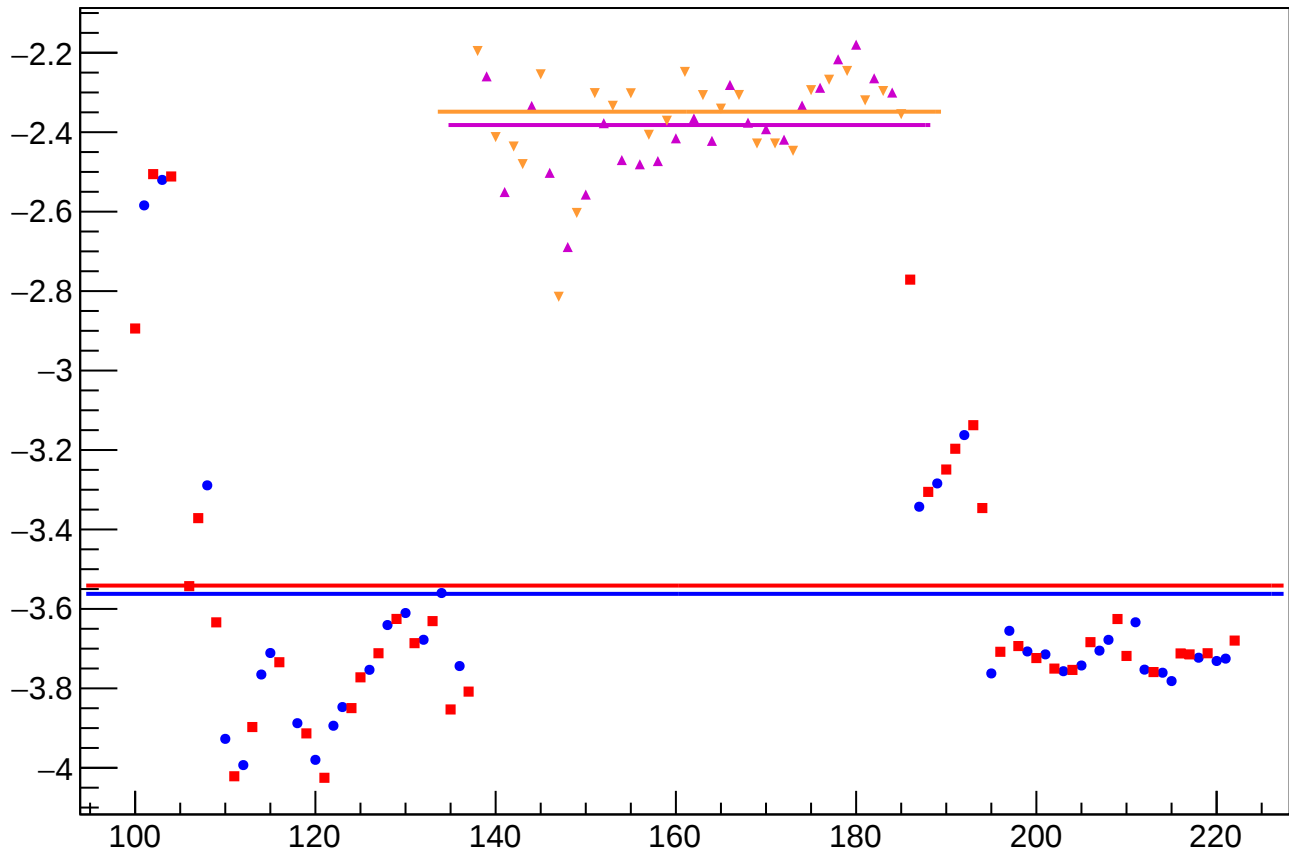
Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:202181.4/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1349556.2/59

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 2718886.6/120

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1369319.8/60

yield_bpm0i02Y_mean vs Slug



Right In: -3.562+/-0.000 χ^2/NDF : 31037229135.4/34

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.541+/-0.000 χ^2/NDF : 31832579155.5/37

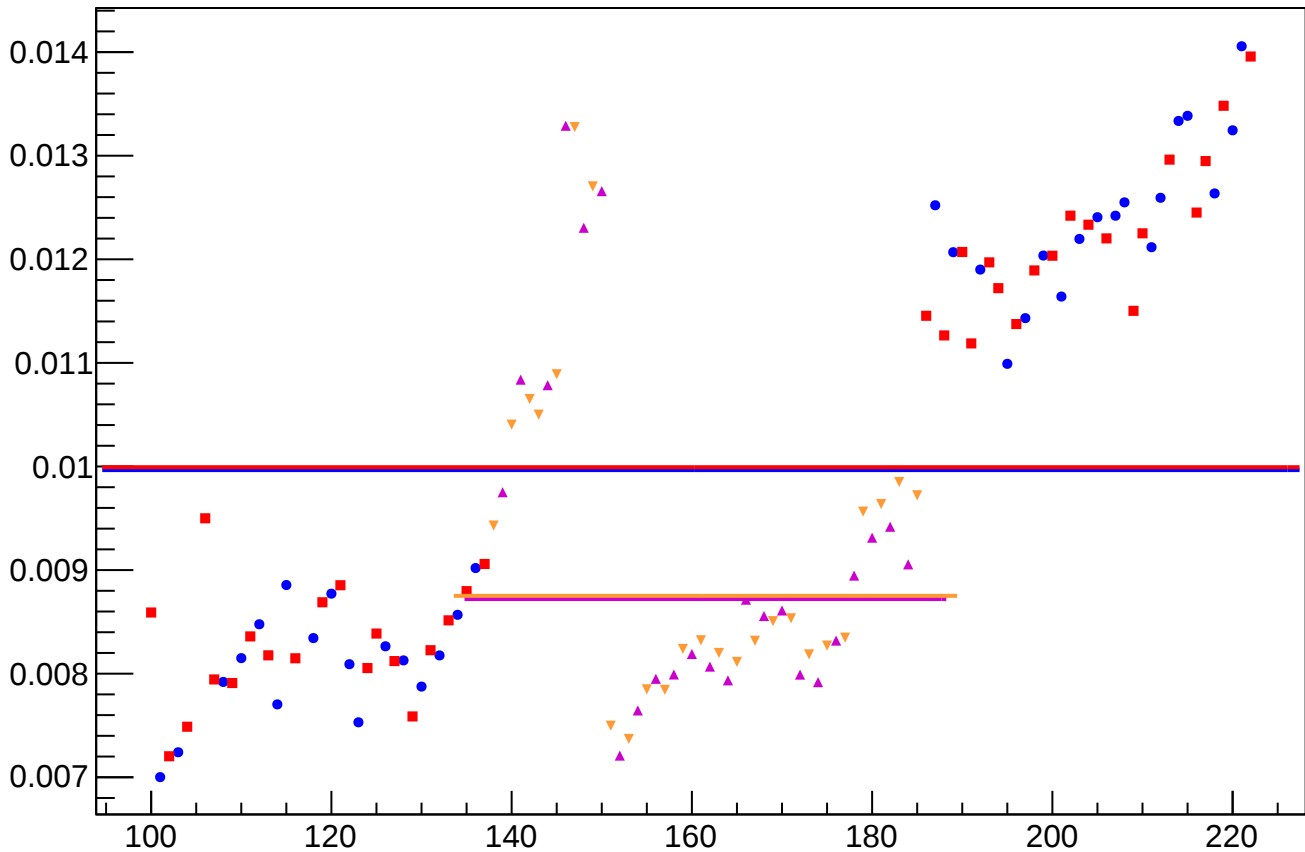
Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

+ sign -2.893+/-0.000 χ^2/NDF : 181815767156.0/59

All: -2.911+/-0.000 χ^2/NDF : 351396295218.6

- sign -2.928+/-0.000 χ^2/NDF : 169322100107.8/60

yield_bpm0i02Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1776484.4/34

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:663672.8/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1679123.5/37

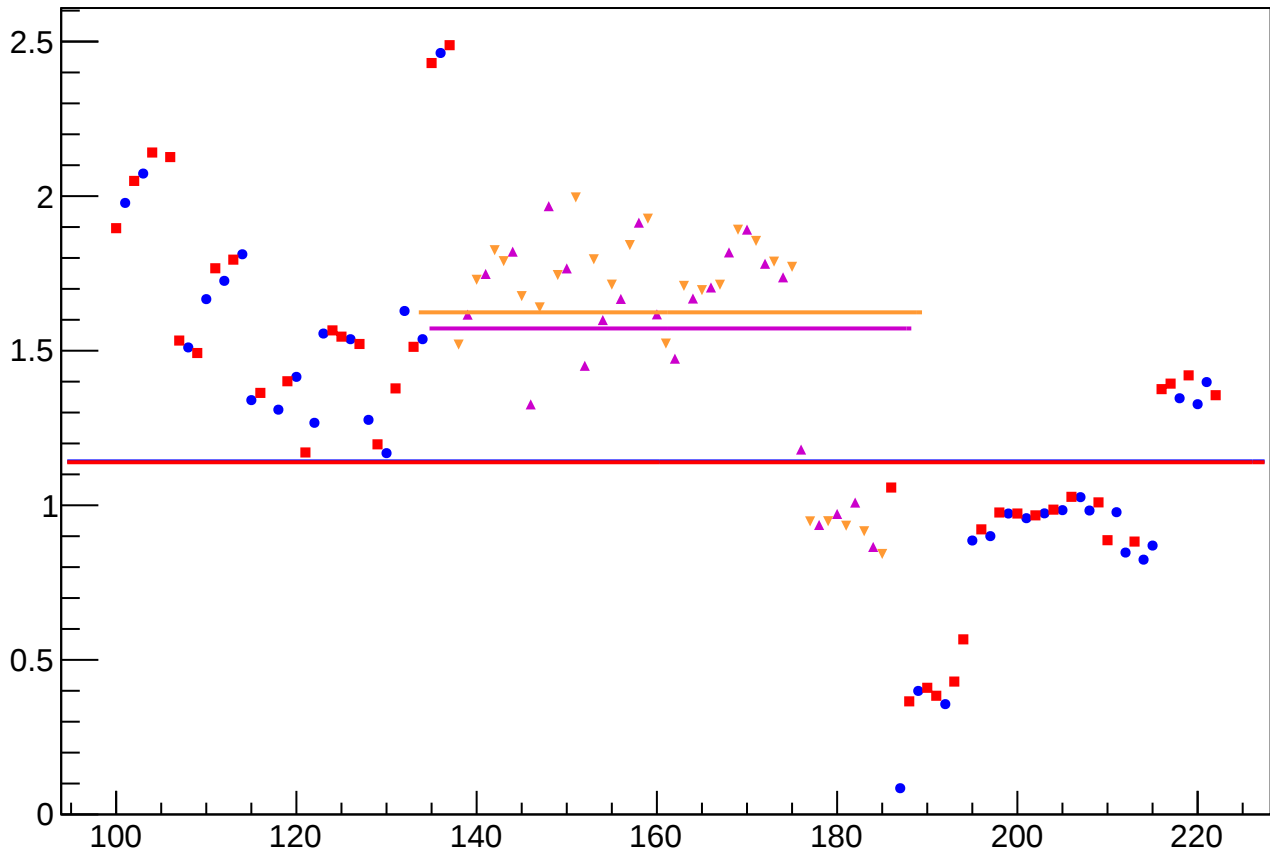
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:747867.0/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2737395.1/59

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 5490416.2/120

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2752775.4/60

yield_bpm0i02aX_mean vs Slug



Right In: 1.142 ± 0.000 χ^2/NDF : 29350959218.1/34

Left Out: 1.624 ± 0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.139 ± 0.000 χ^2/NDF : 34284404572.9/37

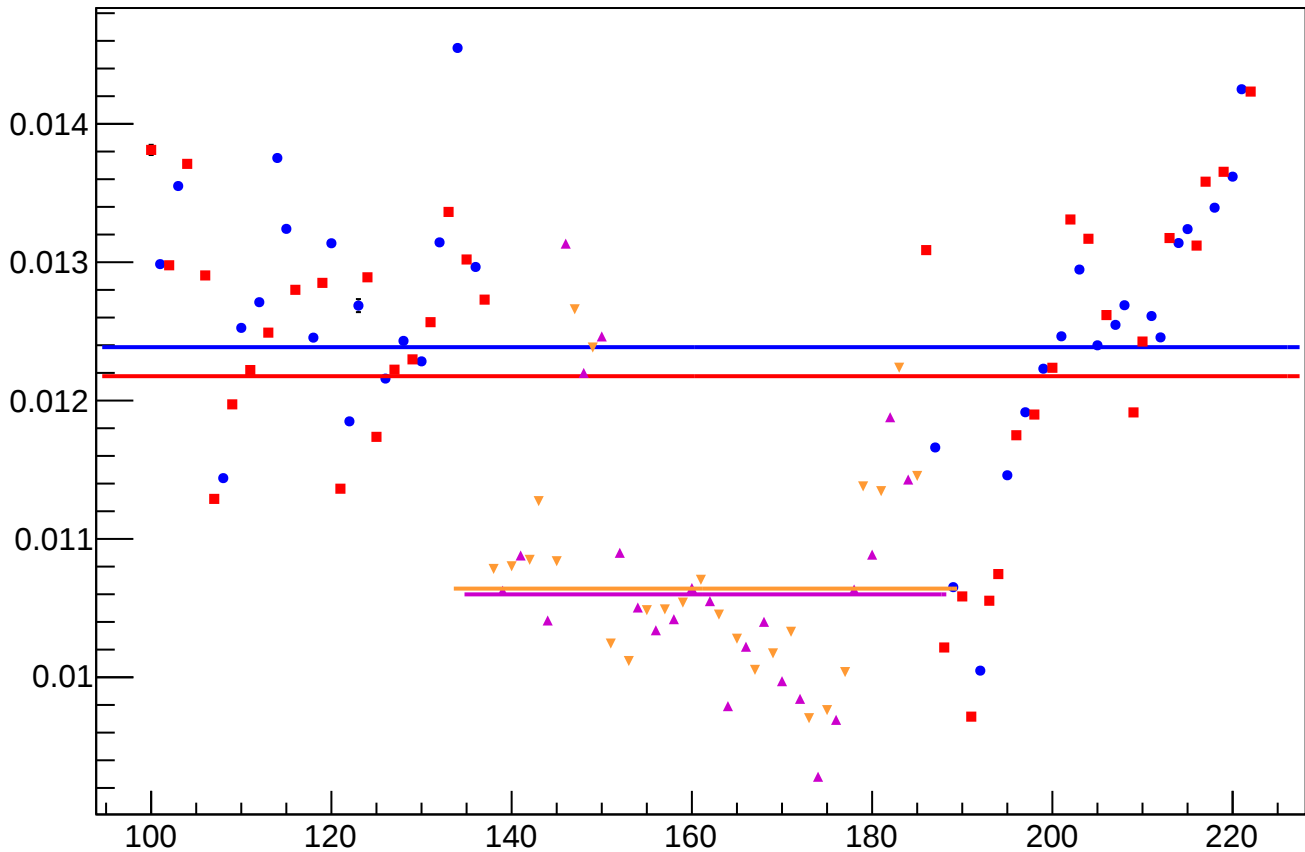
Left In: 1.572 ± 0.000 χ^2/NDF : 14230484809.4/22

+ sign 1.411 ± 0.000 χ^2/NDF : 62006893987.5/59

All: 1.389 ± 0.000 χ^2/NDF : 123885728921.4

- sign 1.367 ± 0.000 χ^2/NDF : 61608990615.0/60

yield_bpm0i02aX_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 225588.2/34

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 329707.6/37

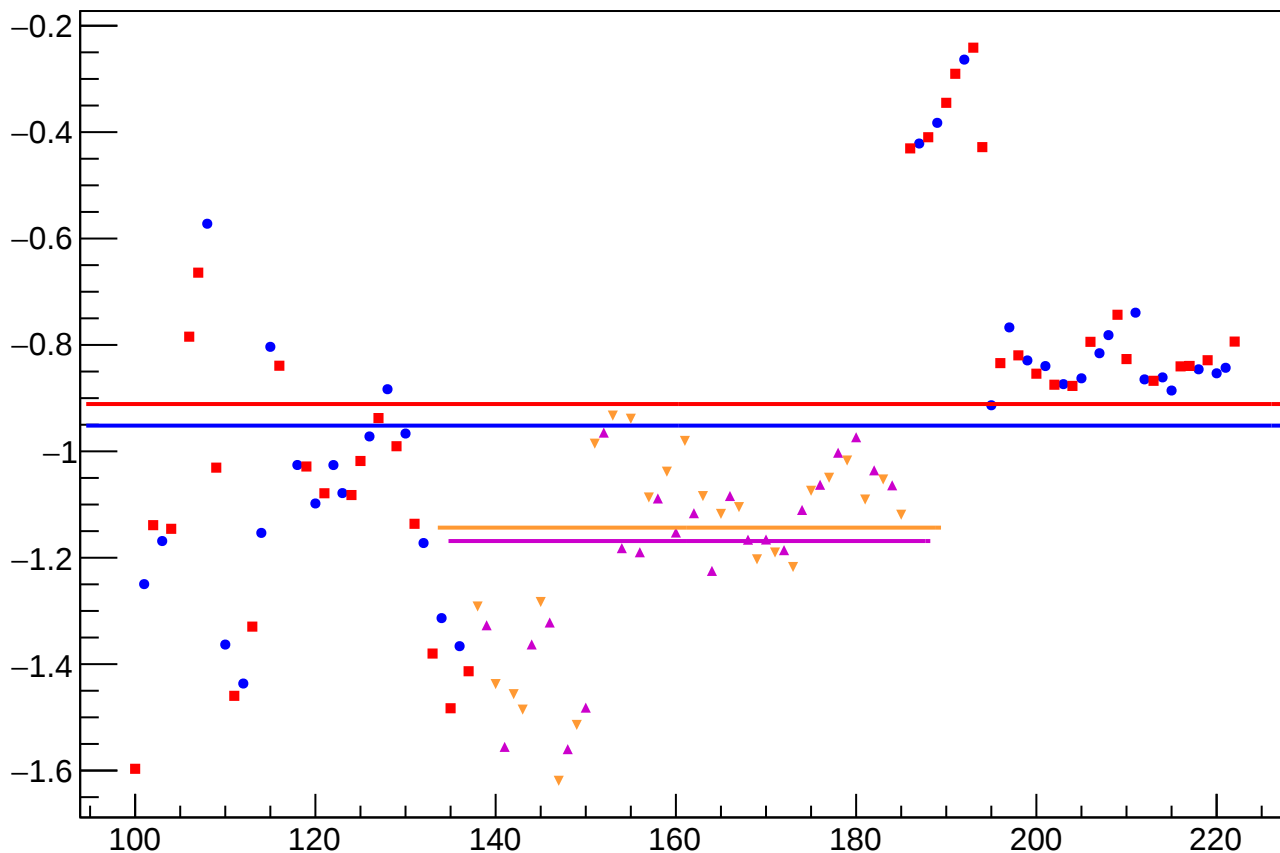
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 805240.5/59

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1688476.3/120

- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 881998.7/60

yield_bpm0i02aY_mean vs Slug



Right In: -0.952 ± 0.000 $\chi^2/\text{NDF}: 11608331042.4/34$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.911 ± 0.000 $\chi^2/\text{NDF}: 16219342624.9/37$

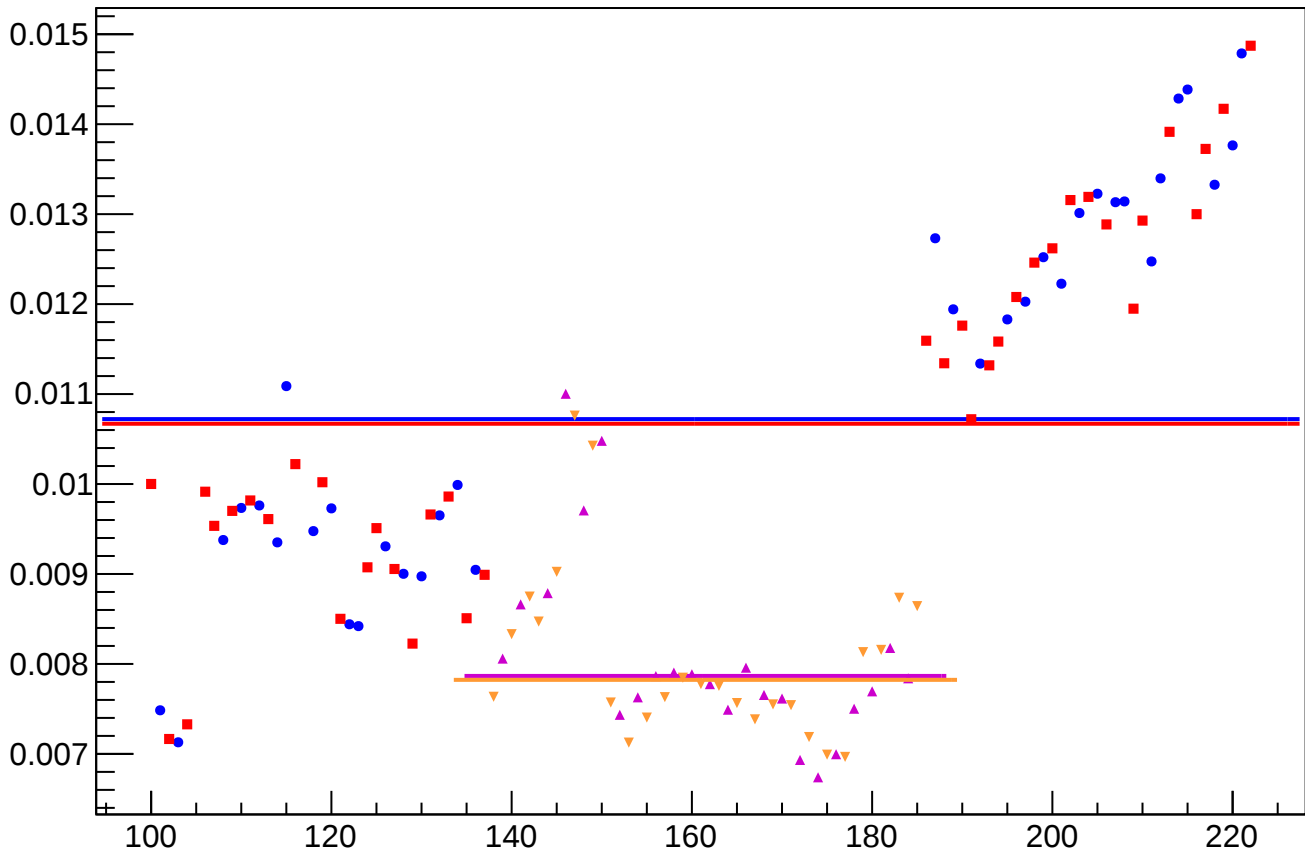
Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

+ sign -1.074 ± 0.000 $\chi^2/\text{NDF}: 23292522903.6/59$

All: -1.072 ± 0.000 $\chi^2/\text{NDF}: 52626631549.4$

- sign -1.069 ± 0.000 $\chi^2/\text{NDF}: 29327112166.4/60$

yield_bpm0i02aY_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 1536171.5/34

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1478317.7/37

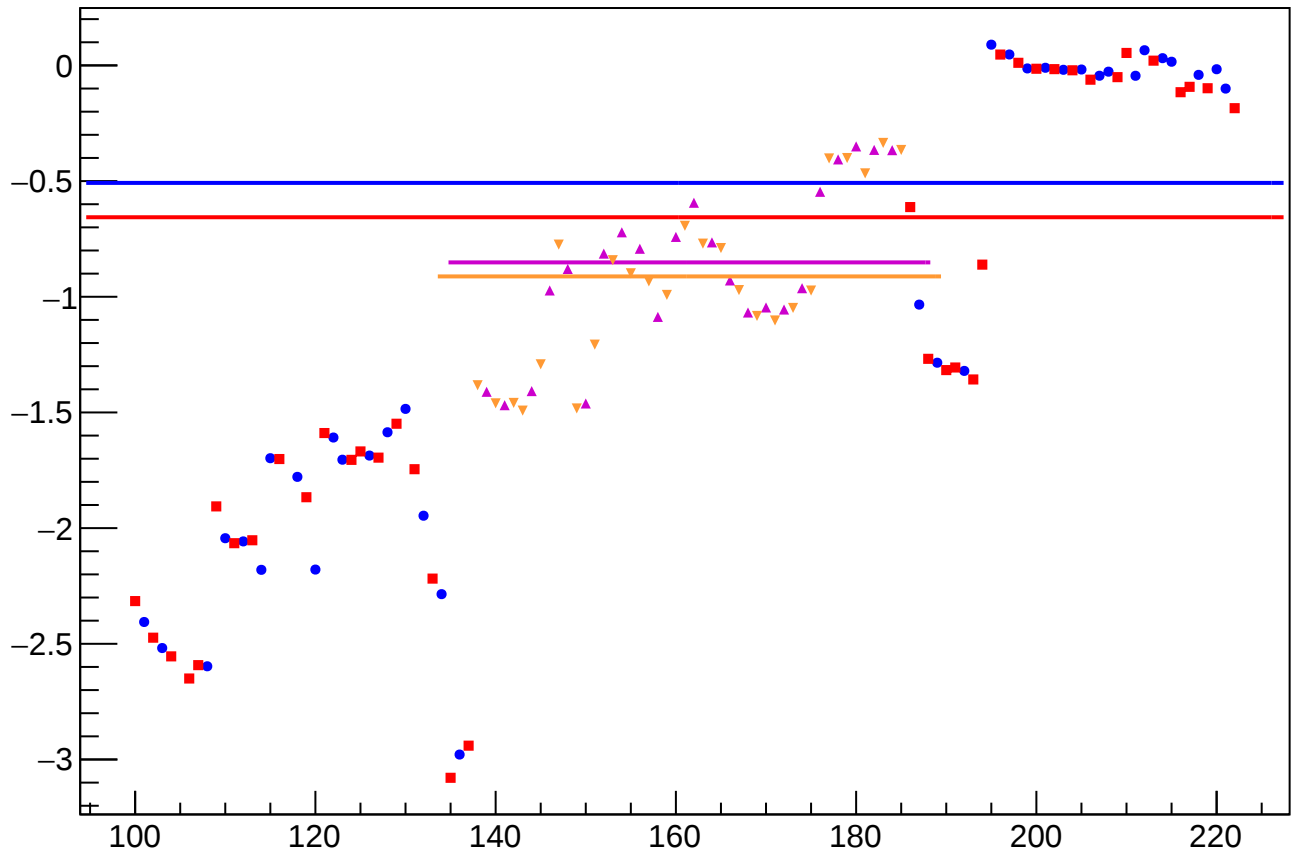
Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

+ sign 0.009+/-0.000 χ^2/NDF : 3566848.1/59

All: 0.009+/-0.000 χ^2/NDF : 7026980.4/120

- sign 0.009+/-0.000 χ^2/NDF : 3456801.7/60

yield_bpm0i05X_mean vs Slug



Right In: -0.508 ± 0.000 $\chi^2/\text{NDF}: 421230813807.9/34$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -0.656 ± 0.000 $\chi^2/\text{NDF}: 449832854949.0/37$

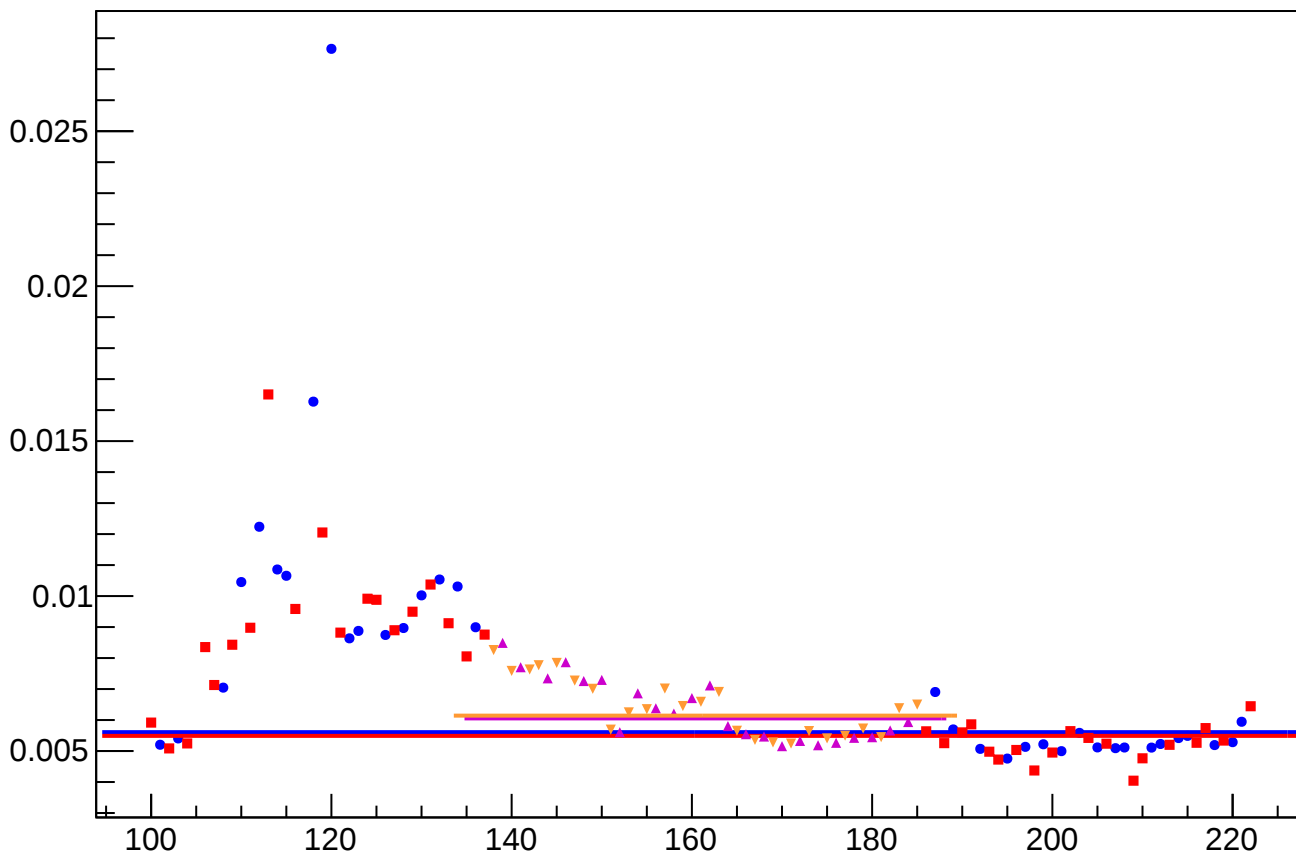
Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

+ sign -0.694 ± 0.000 $\chi^2/\text{NDF}: 509511679685.8/59$

All: -0.718 ± 0.000 $\chi^2/\text{NDF}: 1016263724458$

- sign -0.741 ± 0.000 $\chi^2/\text{NDF}: 505677966134.6/60$

yield_bpm0i05X_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 2079350.9/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:637765.4/24

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 2169867.9/37

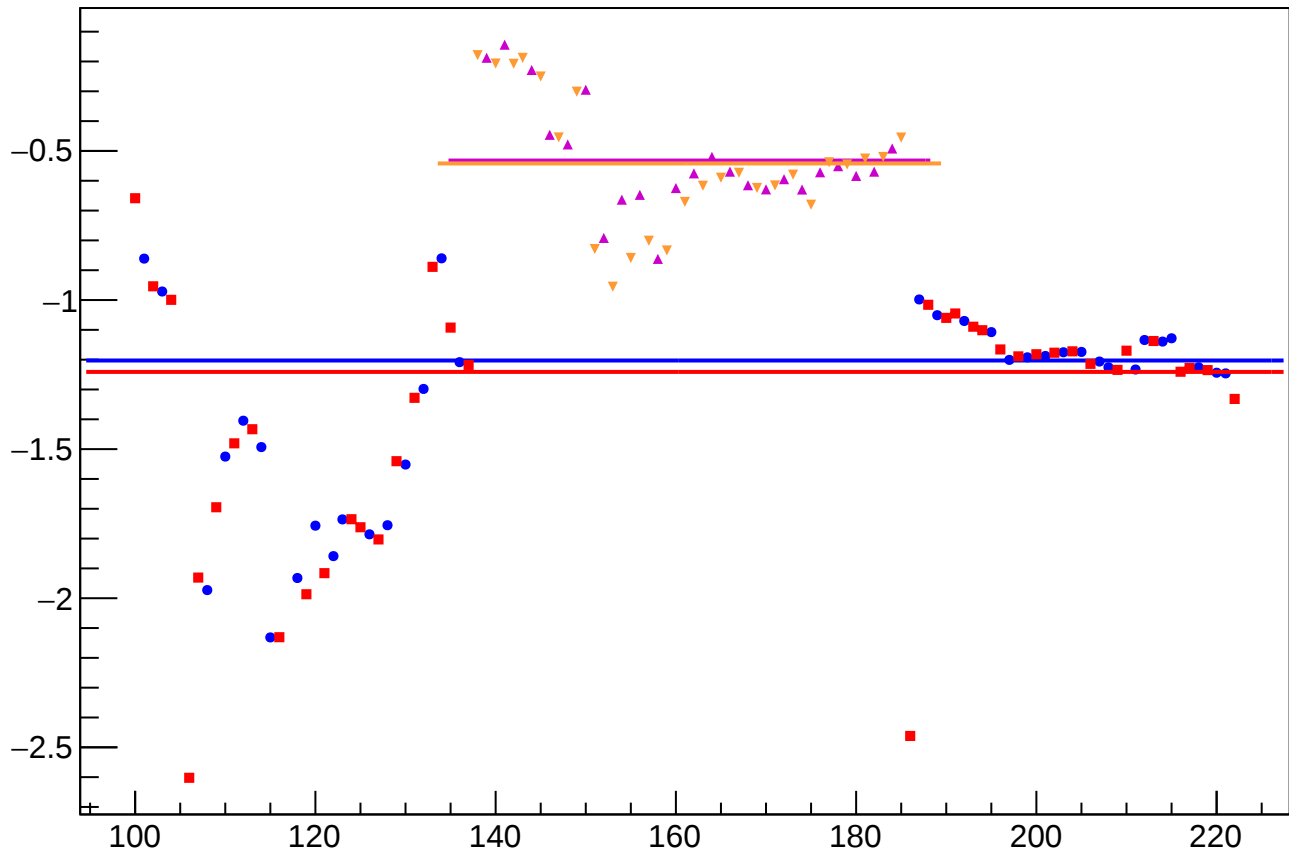
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:697577.8/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 2853616.9/59

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 5892628.2/120

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 3024339.0/60

yield_bpm0i05Y_mean vs Slug



Right In: -1.203+/-0.000 χ^2/NDF : 27077742320.9/34

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.241+/-0.000 χ^2/NDF : 79743801050.7/37

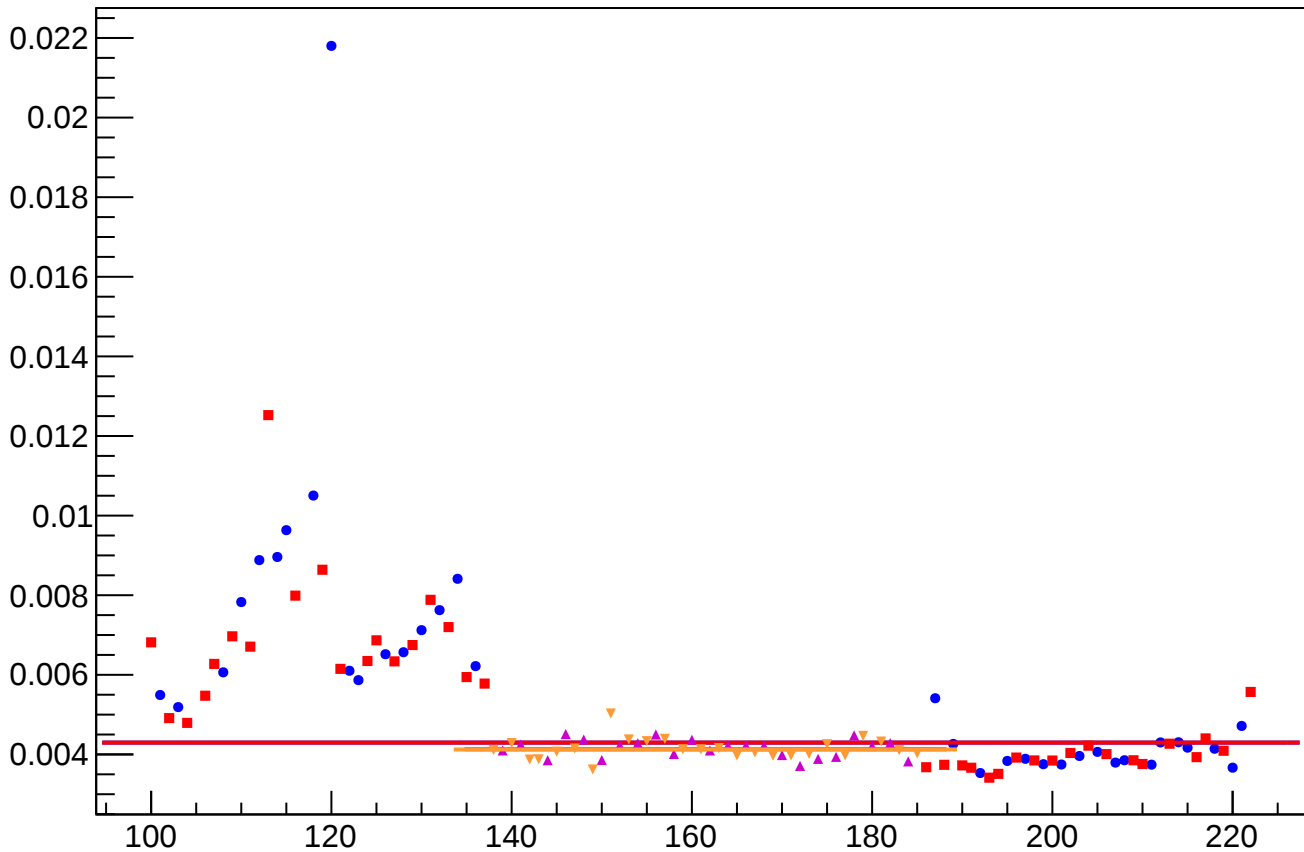
Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

+ sign -0.854+/-0.000 χ^2/NDF : 278600740151.1/59

All: -0.869+/-0.000 χ^2/NDF : 624114892909.3

- sign -0.885+/-0.000 χ^2/NDF : 344591539104.9/60

yield_bpm0i05Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 2124983.7/34

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:113033.9/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1979972.6/37

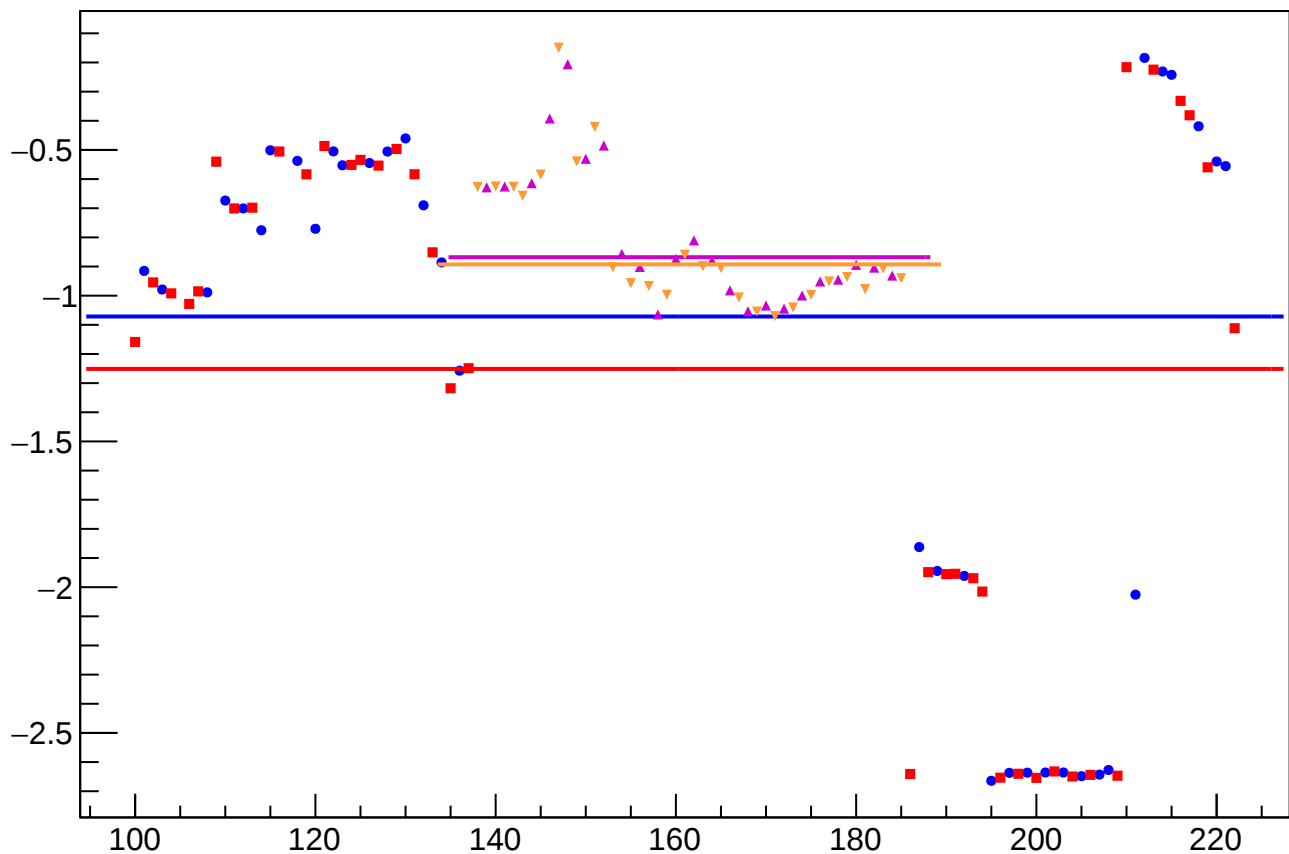
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:93111.2/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2265852.9/59

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 4365276.3/120

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2099319.8/60

yield_bpm0i07X_mean vs Slug



Right In: -1.071 ± 0.000 χ^2/NDF : 590552296098.5/34

Left Out: -0.893 ± 0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.251 ± 0.000 χ^2/NDF : 701045877328.2/37

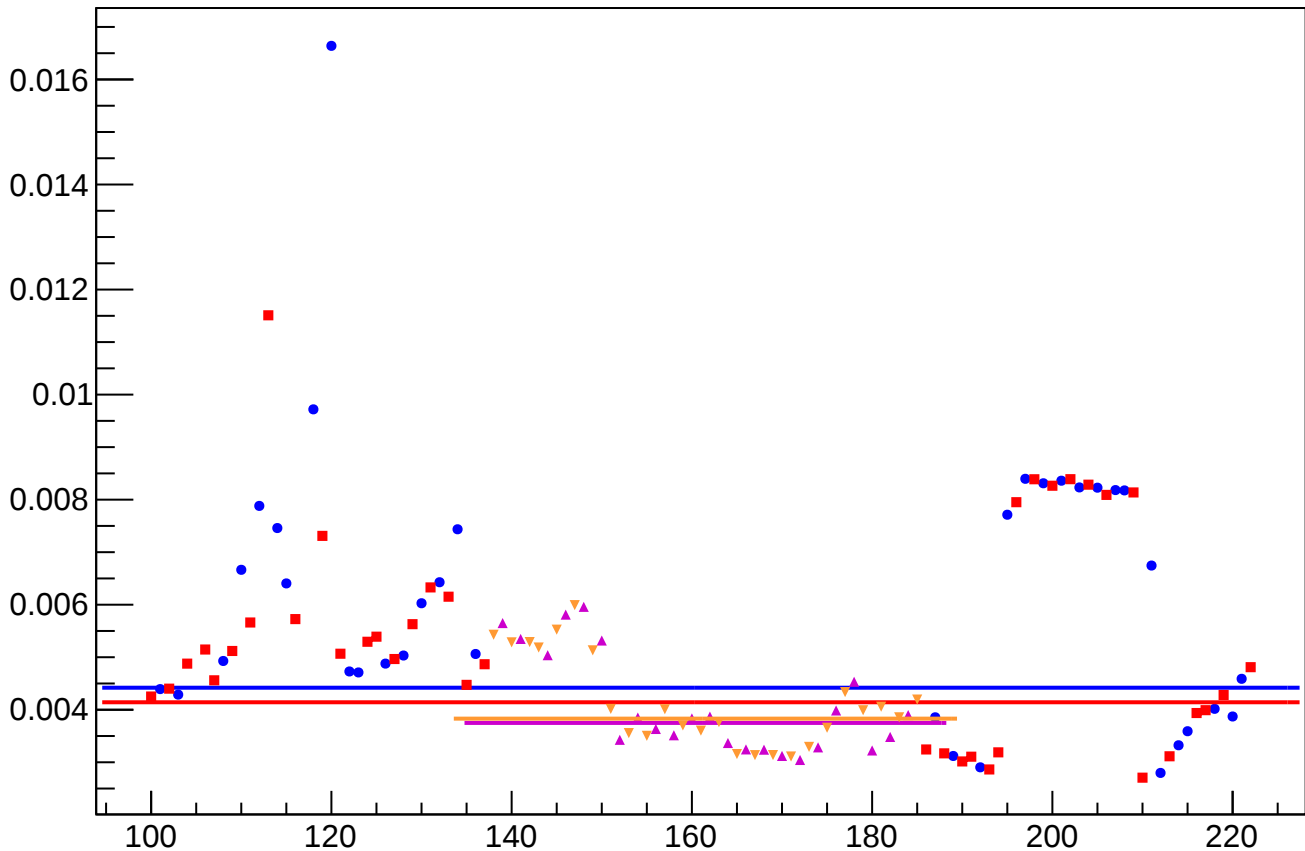
Left In: -0.868 ± 0.000 χ^2/NDF : 43853190177.2/22

+ sign -0.967 ± 0.000 χ^2/NDF : 646246664317.1/59

All: -1.008 ± 0.000 χ^2/NDF : 1473624501578

- sign -1.046 ± 0.000 χ^2/NDF : 821075104348.7/60

yield_bpm0i07X_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 5114416.7/34

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1179801.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 4751591.9/37

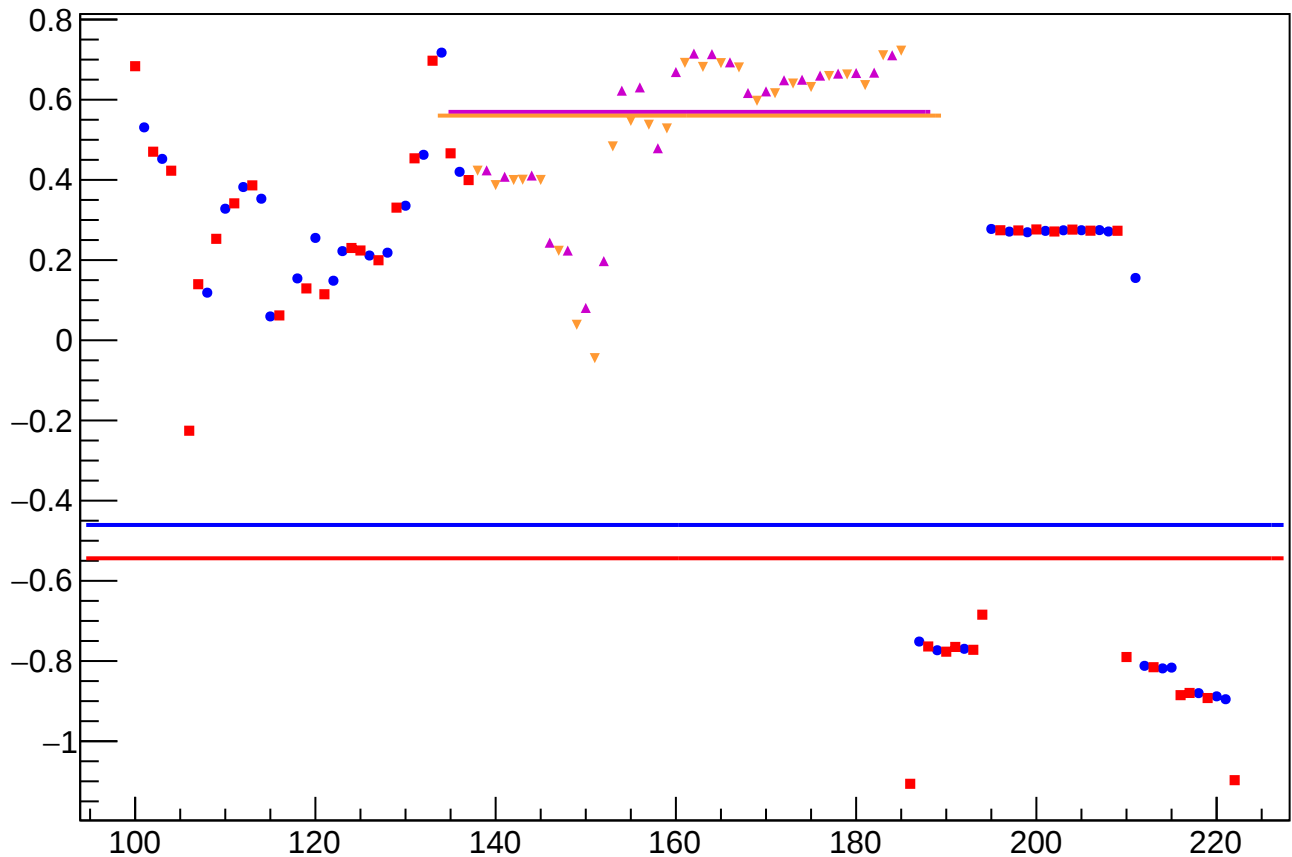
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1288490.4/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6617675.1/59

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 12859181.4/120

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6200575.3/60

yield_bpm0i07Y_mean vs Slug



Right In: -0.461 ± 0.000 χ^2/NDF : 591082543398.8/34

Left Out: 0.560 ± 0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.544 ± 0.000 χ^2/NDF : 647819369822.4/37

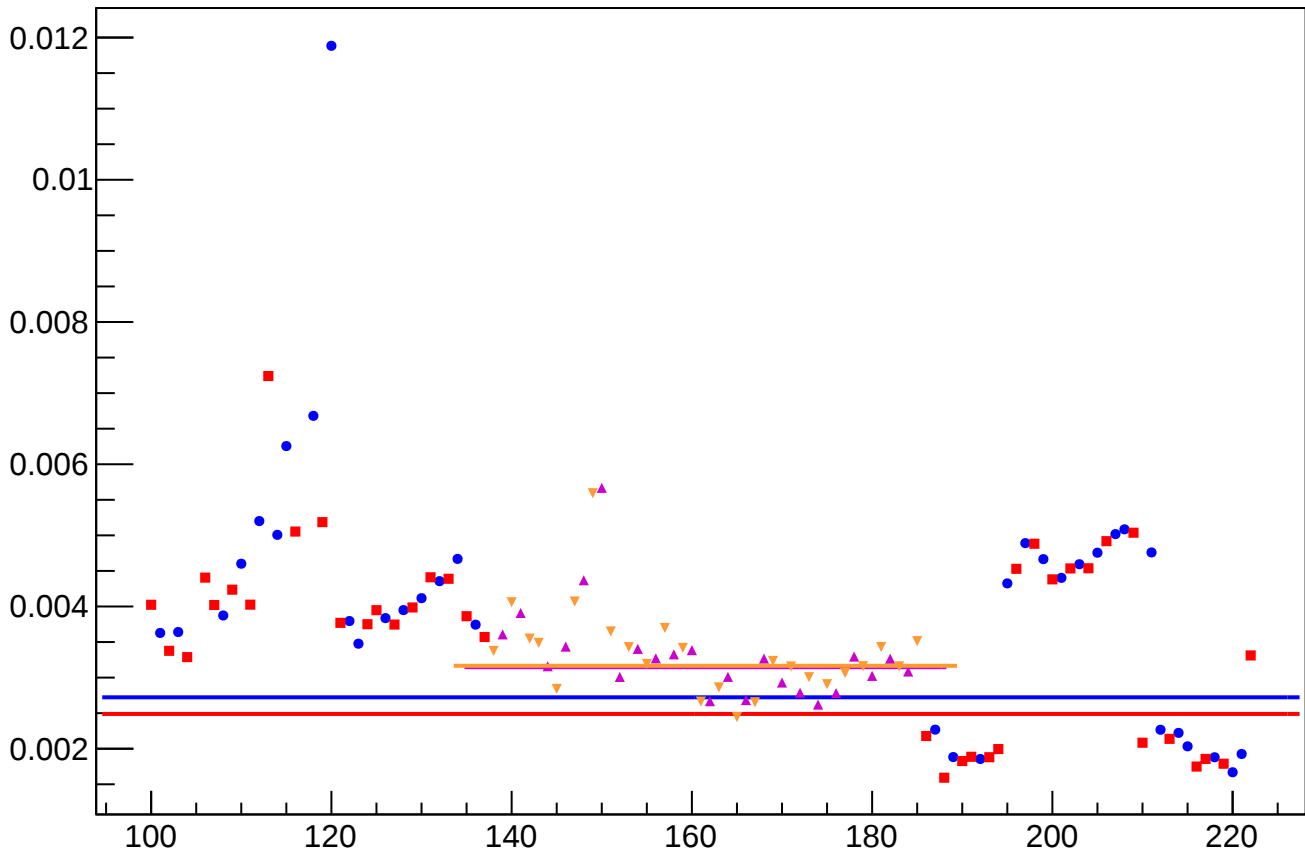
Left In: 0.570 ± 0.000 χ^2/NDF : 42104067973.0/22

+ sign -0.007 ± 0.000 χ^2/NDF : 1573621793520.7/5

All: -0.066 ± 0.000 χ^2/NDF : 3482003592914

- sign -0.119 ± 0.000 χ^2/NDF : 1884212741780.9/6

yield_bpm0i07Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 5921169.3/34

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5895894.2/37

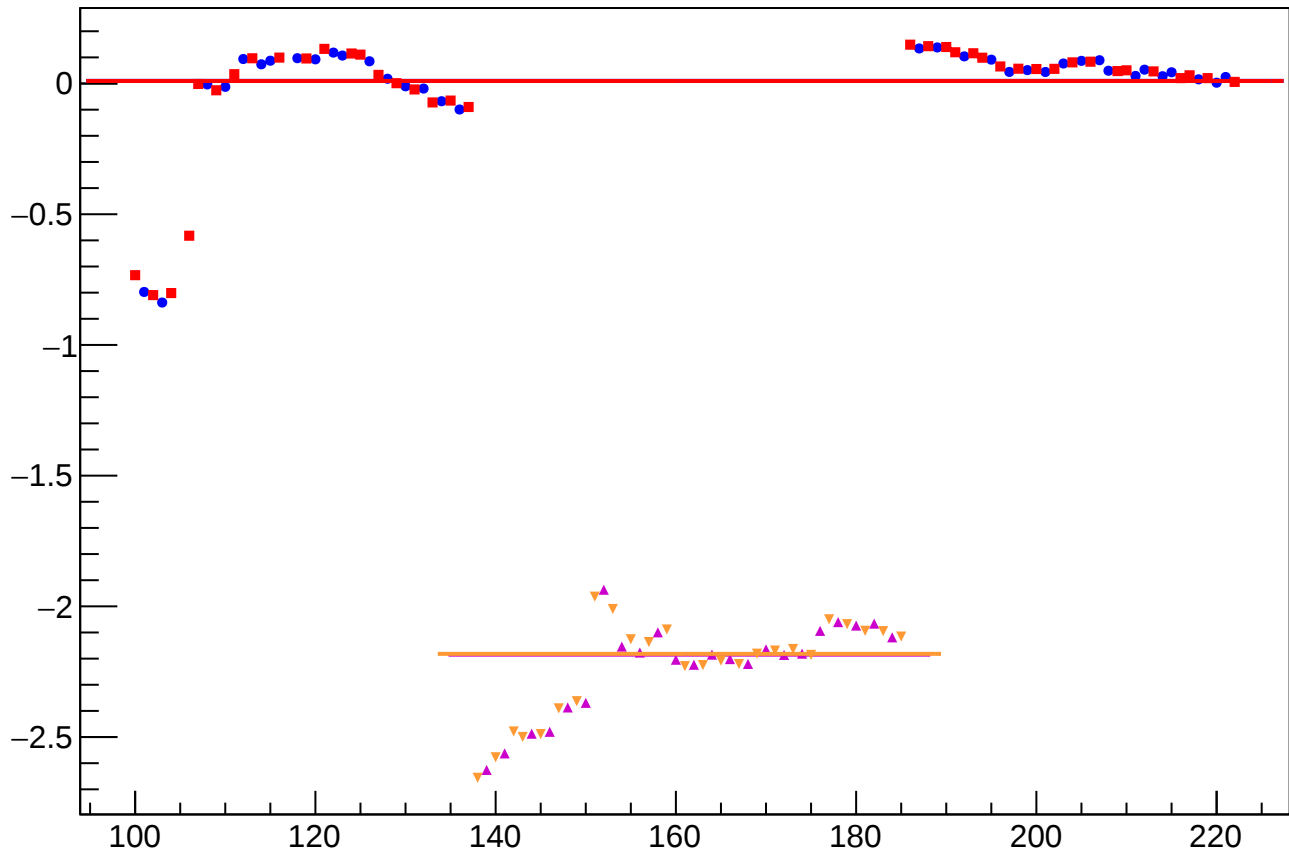
Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

+ sign 0.003+/-0.000 χ^2/NDF : 7019283.2/59

All: 0.003+/-0.000 χ^2/NDF : 14588284.6/120

- sign 0.003+/-0.000 χ^2/NDF : 7444436.3/60

yield_bpm1i02X_mean vs Slug



Right In: 0.010 ± 0.000 $\chi^2/\text{NDF}: 5918579208.3/34$

Left Out: -2.182 ± 0.000 $\chi^2/\text{NDF}: 4008829567.0/24$

Right Out: 0.010 ± 0.000 $\chi^2/\text{NDF}: 6987738803.8/37$

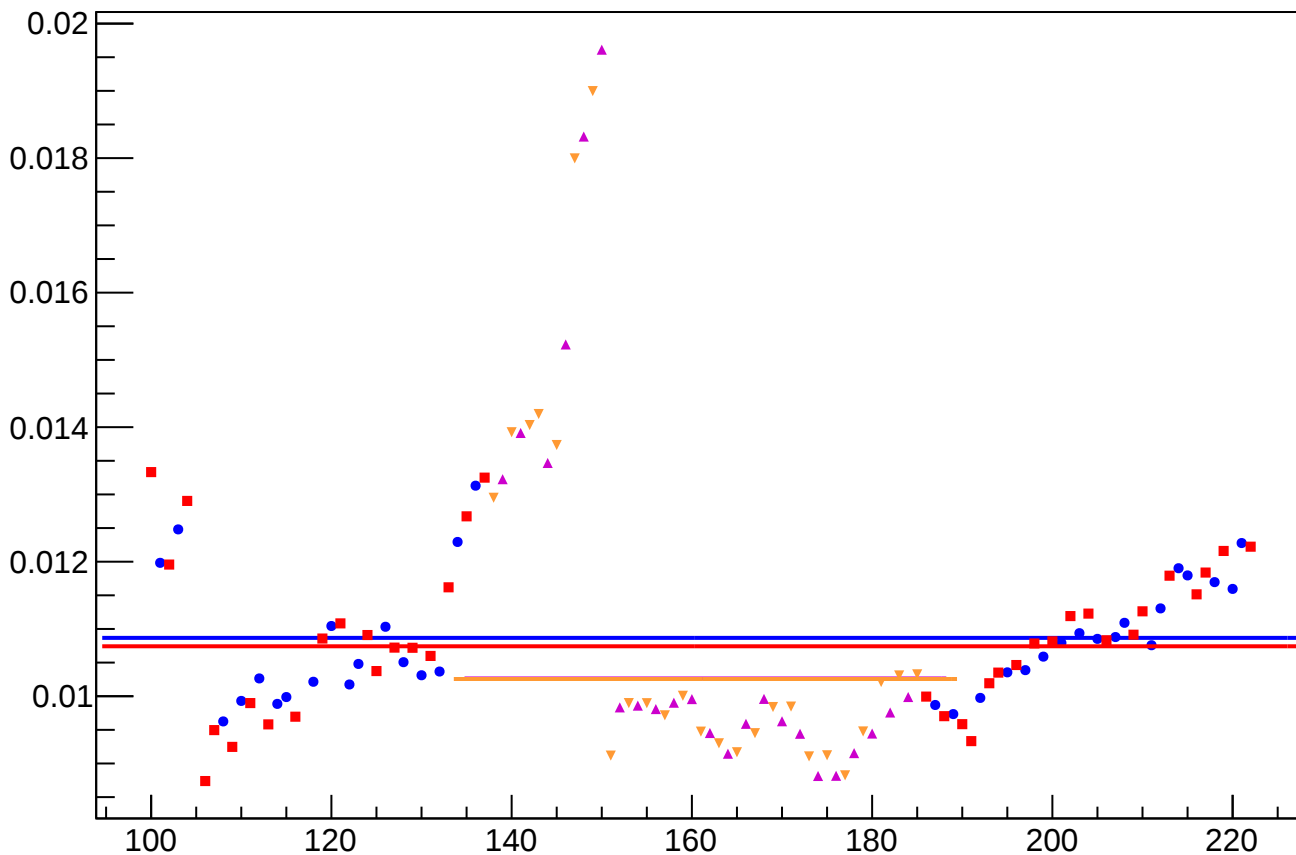
Left In: -2.185 ± 0.000 $\chi^2/\text{NDF}: 3372742534.3/22$

+ sign -1.103 ± 0.000 $\chi^2/\text{NDF}: 406684515062.7/59$

All: -1.068 ± 0.000 $\chi^2/\text{NDF}: 815543011912.2$

- sign -1.033 ± 0.000 $\chi^2/\text{NDF}: 408061545008.2/60$

yield_bpm1i02X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 211370.9/34

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 320210.5/37

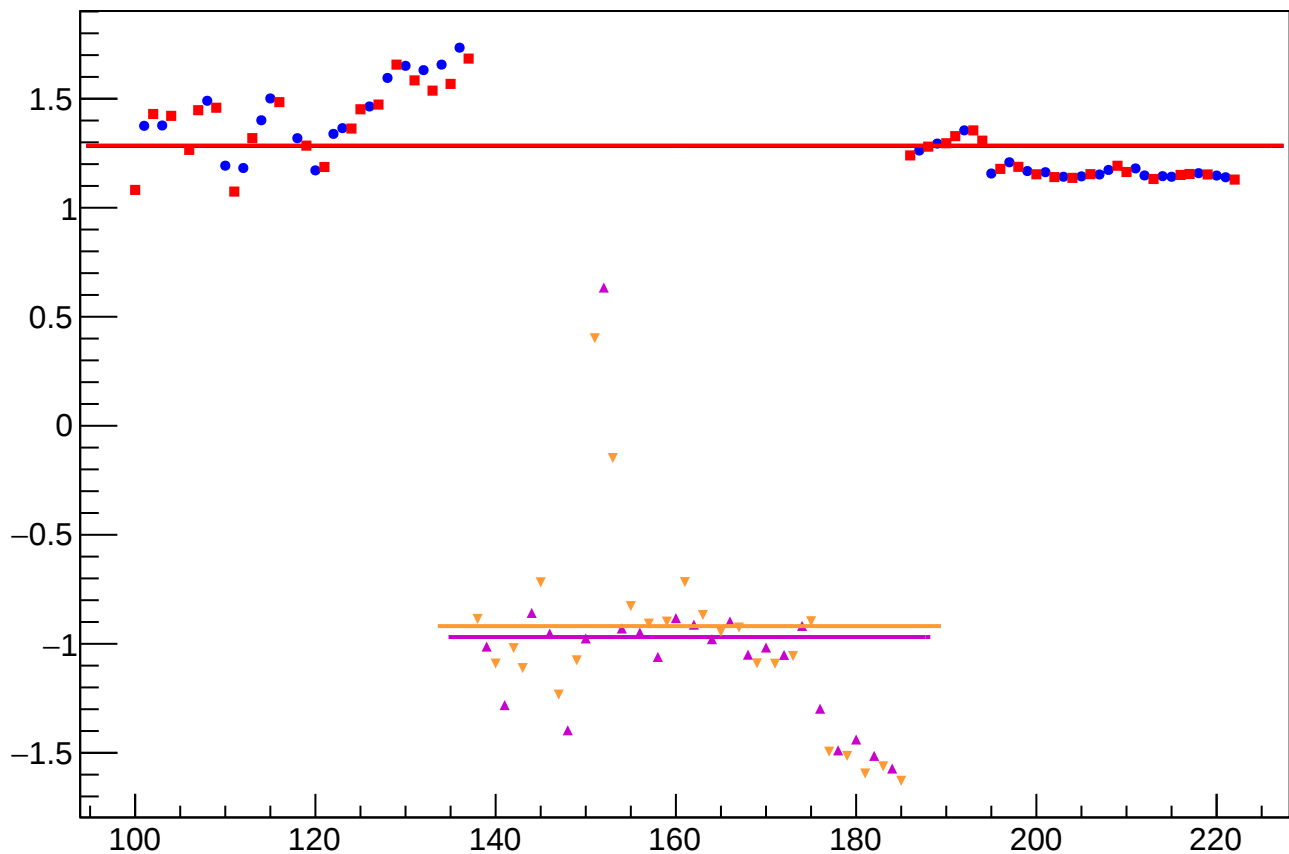
Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

+ sign 0.011+/-0.000 χ^2/NDF : 1543737.0/59

All: 0.011+/-0.000 χ^2/NDF : 3242521.4/120

- sign 0.011+/-0.000 χ^2/NDF : 1698205.5/60

yield_bpm1i02Y_mean vs Slug



Right In: 1.283 $\pm$ 0.000 χ^2 /NDF: 9060874966.8/34

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.285 $\pm$ 0.000 χ^2 /NDF: 7344884468.6/37

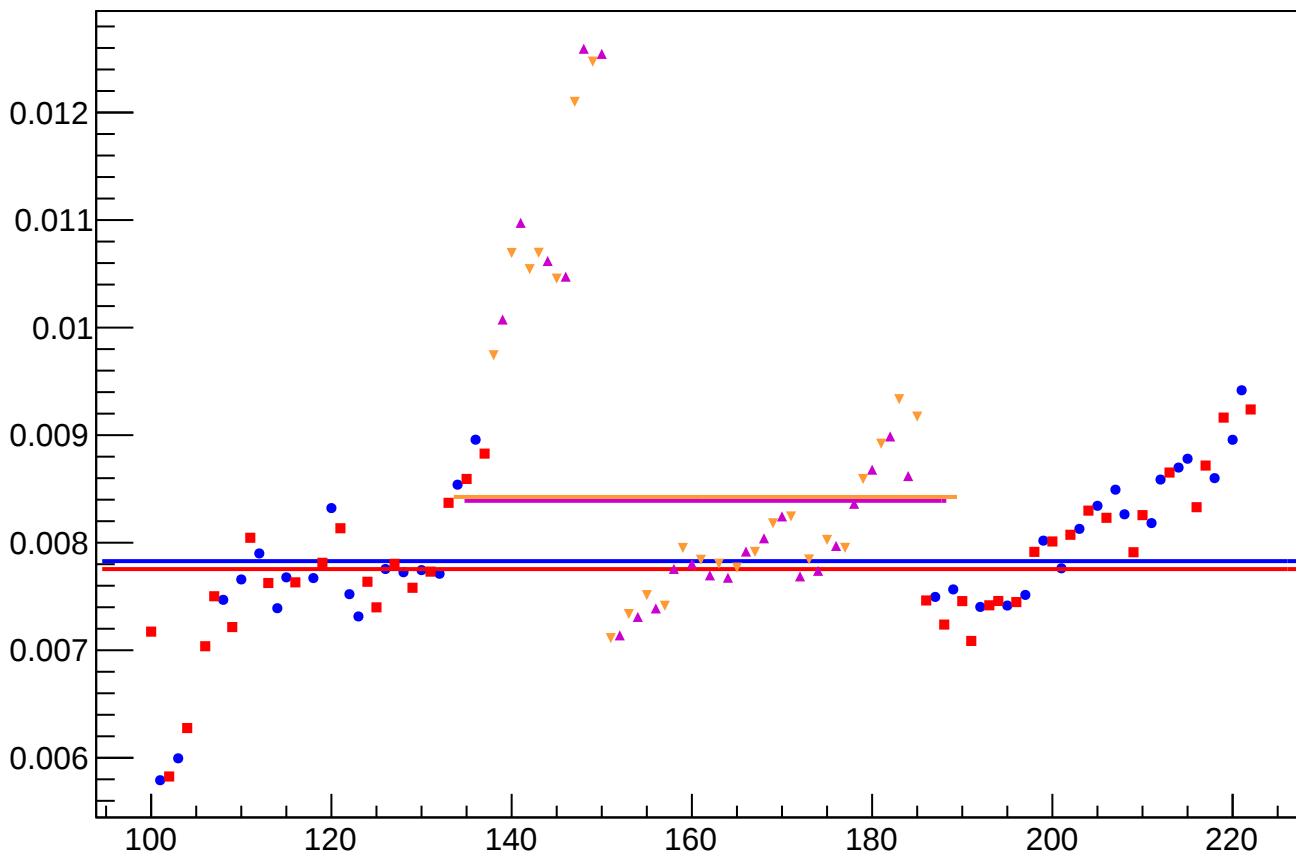
Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

+ sign 0.299 $\pm$ 0.000 χ^2 /NDF: 740827089936.8/59

All: 0.322 $\pm$ 0.000 χ^2 /NDF: 1512198700769.

- sign 0.344 $\pm$ 0.000 χ^2 /NDF: 770795618823.2/60

yield_bpm1i02Y_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 430453.6/34

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 792337.0/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 377842.6/37

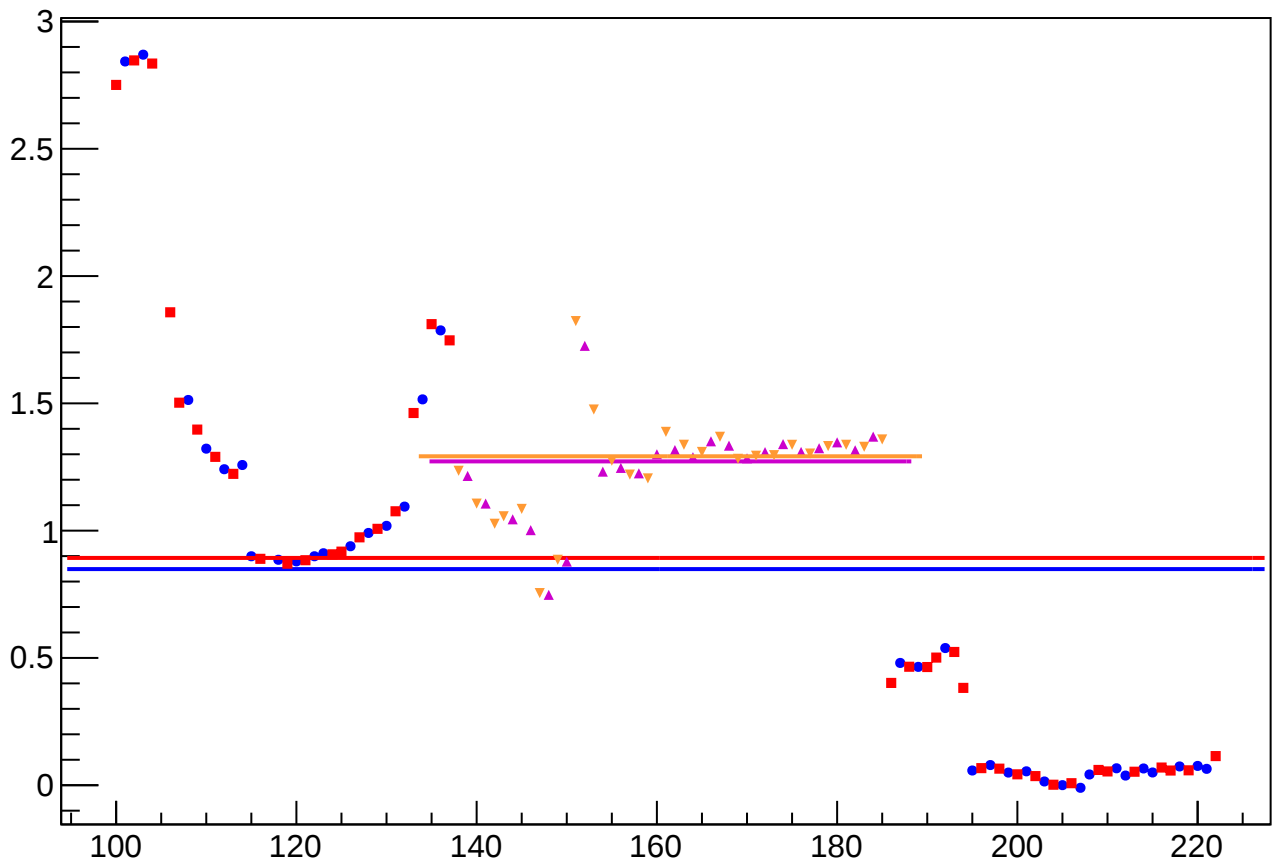
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 839880.4/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 1322113.0/59

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2655517.8/120

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 1330139.9/60

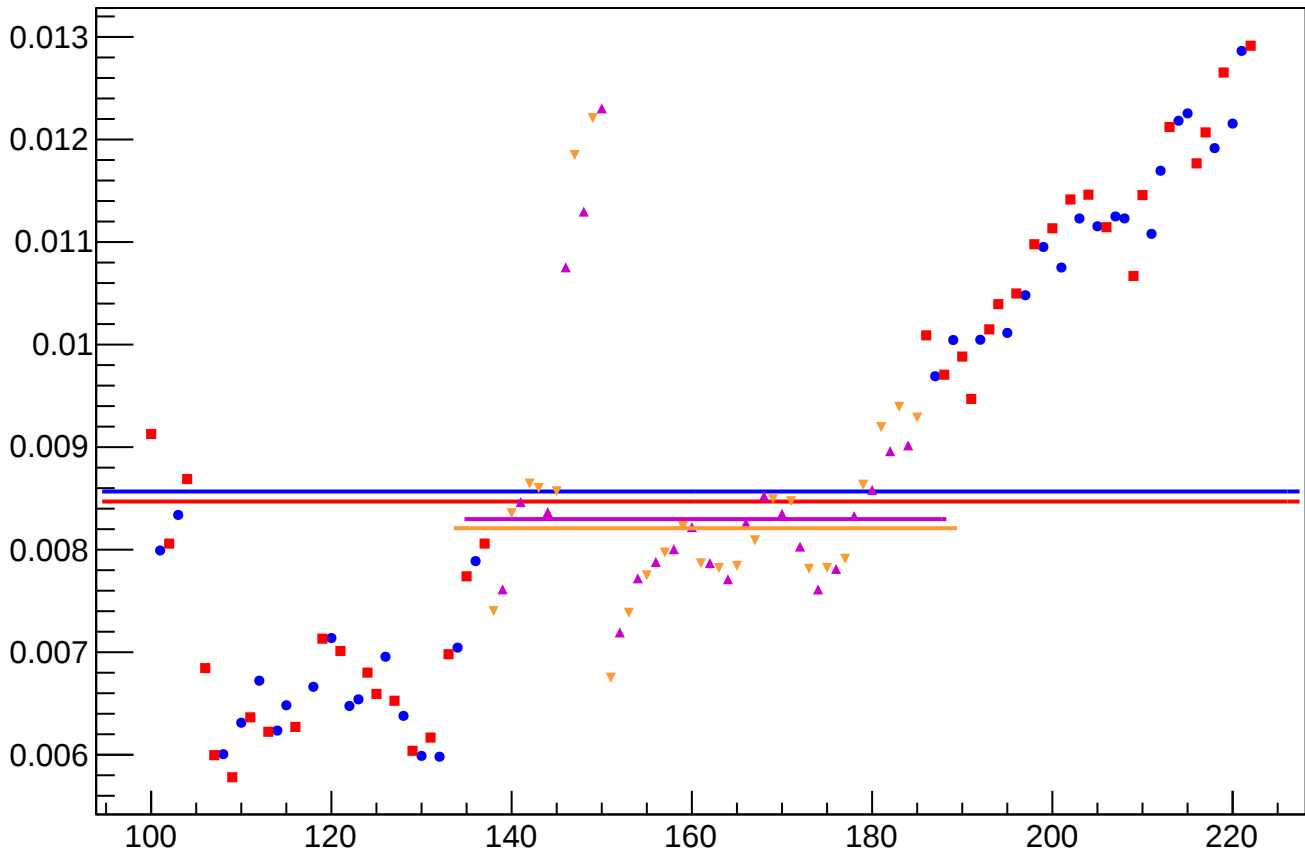
yield_bpm1i04X_mean vs Slug



Right In: 0.849 +/- 0.000 χ^2/NDF : 151144888273.1/34
 Left Out: 1.292 +/- 0.000 χ^2/NDF : 9305298695.5/24
 Right Out: 0.893 +/- 0.000 χ^2/NDF : 146866103592.7/37
 Left In: 1.272 +/- 0.000 χ^2/NDF : 7573930981.2/22

+ sign 1.078 +/- 0.000 χ^2/NDF : 185409722748.9/59
 All: 1.076 +/- 0.000 χ^2/NDF : 358035451239.3
 - sign 1.075 +/- 0.000 χ^2/NDF : 172623833573.1/60

yield_bpm1i04X_rms vs Slug



Right In: 0.009+/-0.000 χ^2/NDF : 2516815.0/34

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2723190.0/37

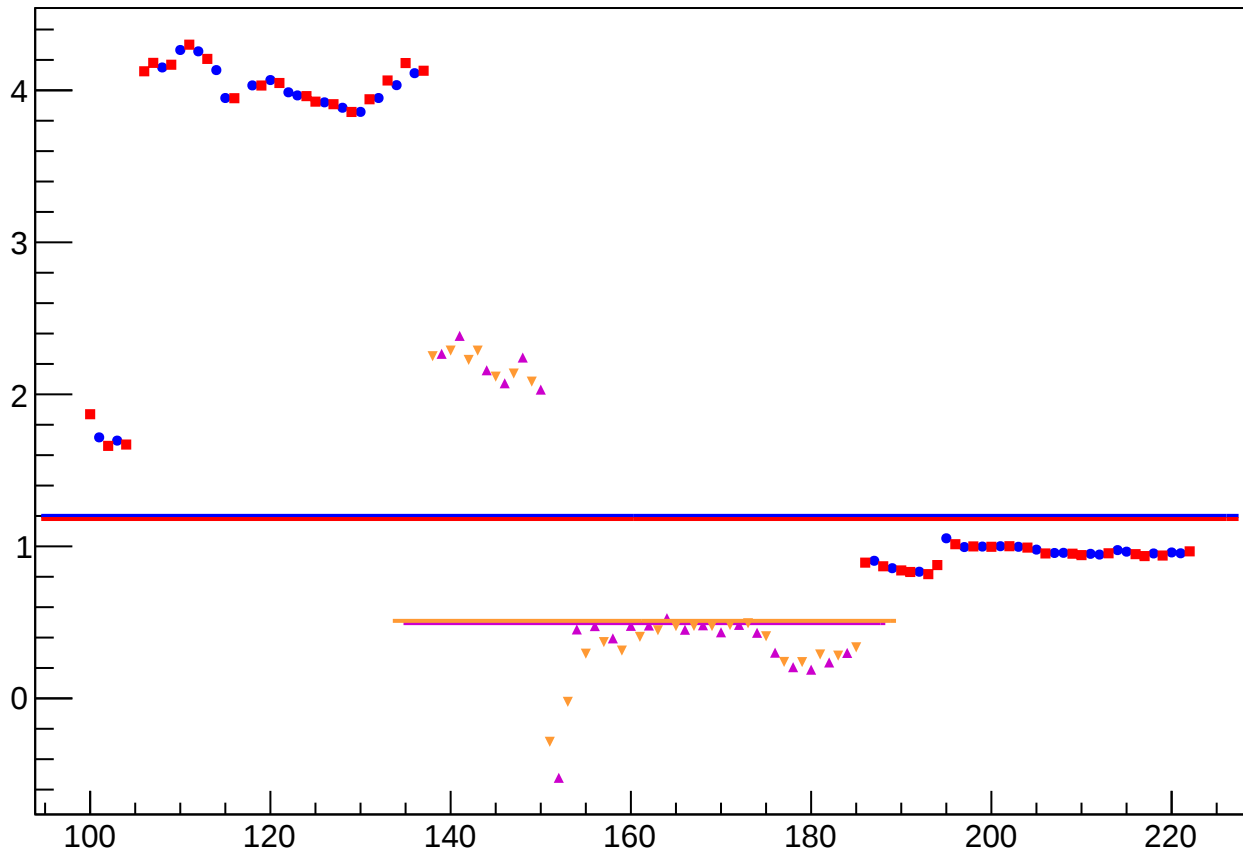
Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

+ sign 0.008+/-0.000 χ^2/NDF : 3028231.2/59

All: 0.008+/-0.000 χ^2/NDF : 6220873.1/120

- sign 0.008+/-0.000 χ^2/NDF : 3192631.0/60

yield_bpm1i04Y_mean vs Slug



Right In: 1.201 $\pm$ 0.000 χ^2 /NDF: 1554320135626.5/34

Left Out: 0.510 $\pm$ 0.000 χ^2 /NDF: 274818814912.4/24

Right Out: 1.180 $\pm$ 0.000 χ^2 /NDF: 1745968672014.0/37

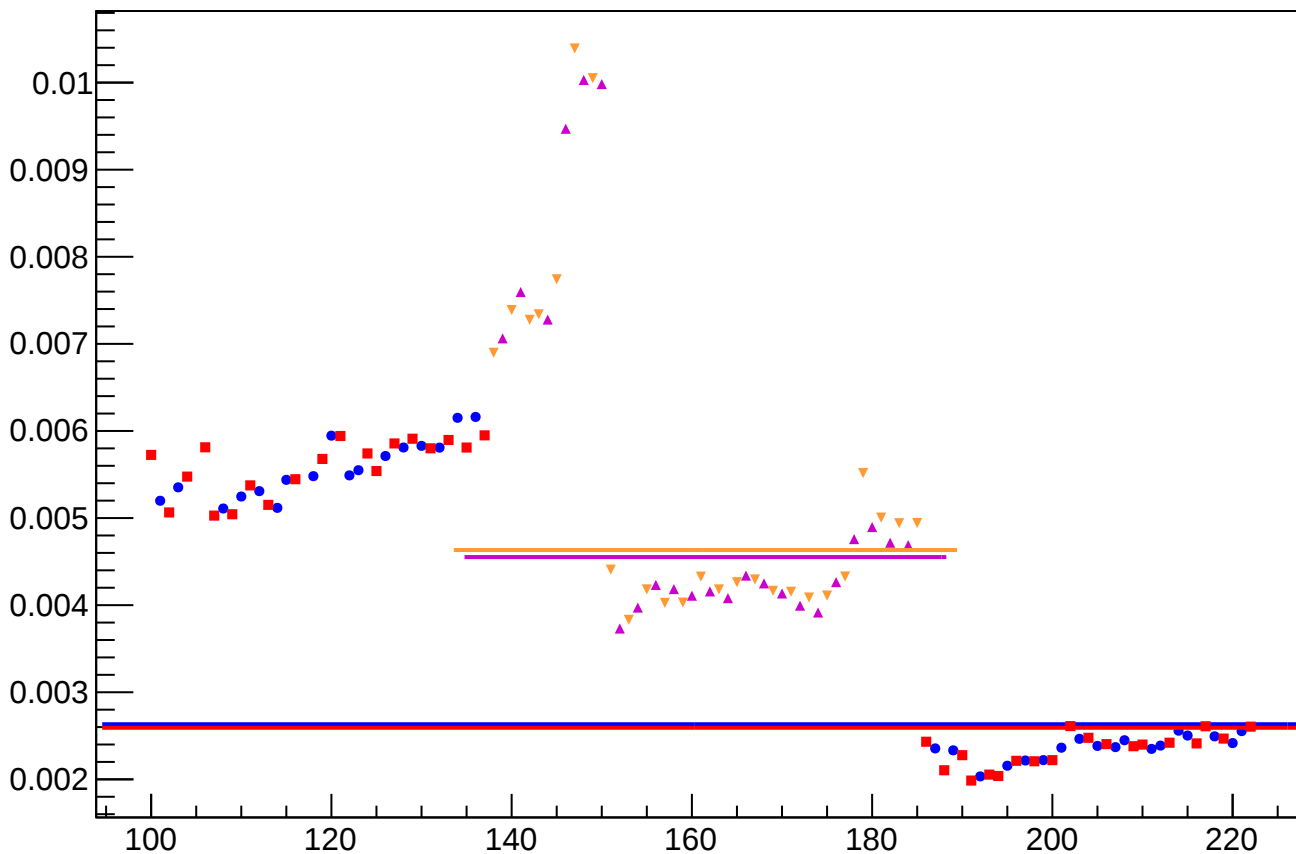
Left In: 0.495 $\pm$ 0.000 χ^2 /NDF: 268863202792.4/22

+ sign 1.030 $\pm$ 0.000 χ^2 /NDF: 2107998150844.5/59

All: 1.026 $\pm$ 0.000 χ^2 /NDF: 4396689537788.

- sign 1.022 $\pm$ 0.000 χ^2 /NDF: 2288605024564.3/60

yield_bpm1i04Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 4210325.9/34

Left Out: 0.005+/-0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4485742.4/37

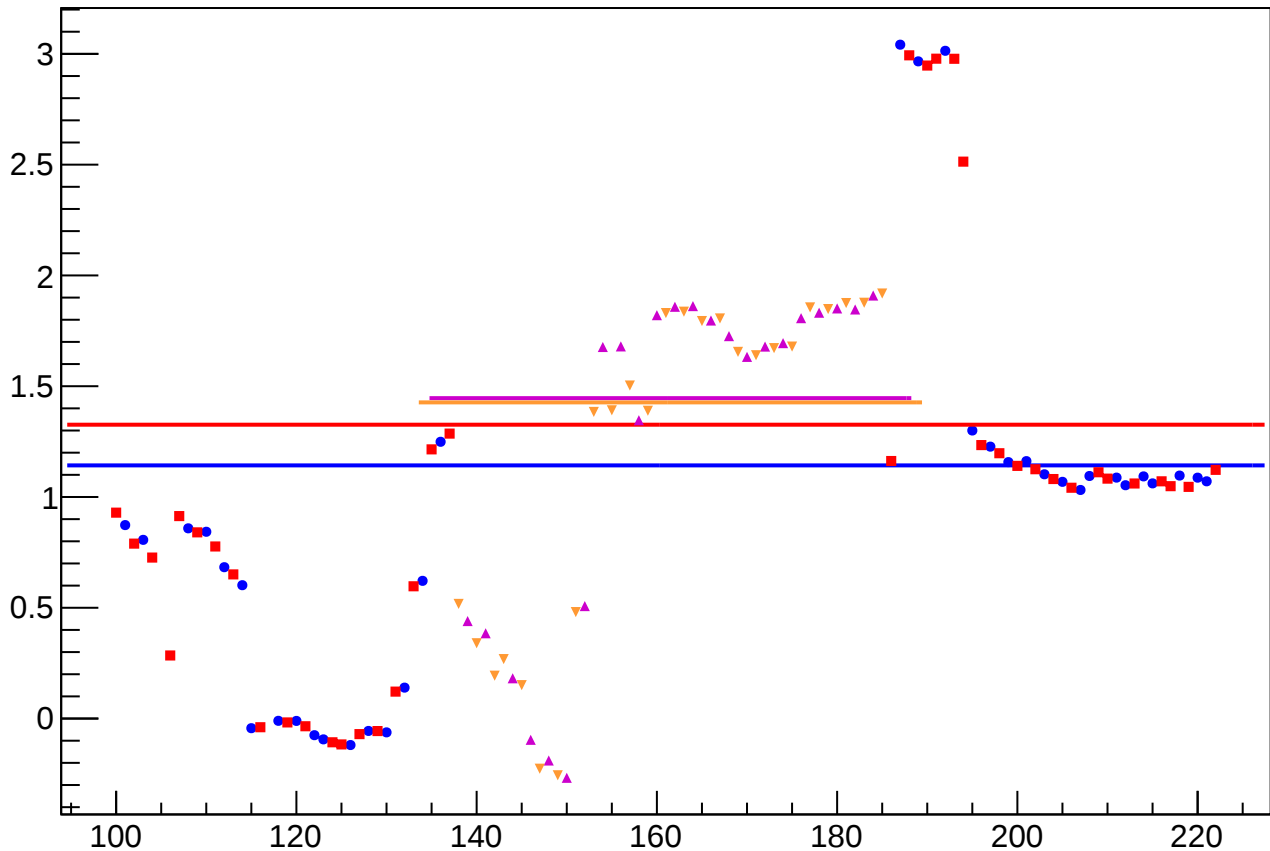
Left In: 0.005+/-0.000 χ^2/NDF : 2237666.9/22

+ sign 0.003+/-0.000 χ^2/NDF : 11000819.2/59

All: 0.003+/-0.000 χ^2/NDF : 22231797.9/120

- sign 0.003+/-0.000 χ^2/NDF : 11207736.9/60

yield_bpm1i06X_mean vs Slug



Right In: 1.143 $\pm$ 0.000 χ^2 /NDF: 72935091861.3/34

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.326 $\pm$ 0.000 χ^2 /NDF: 102307337886.9/37

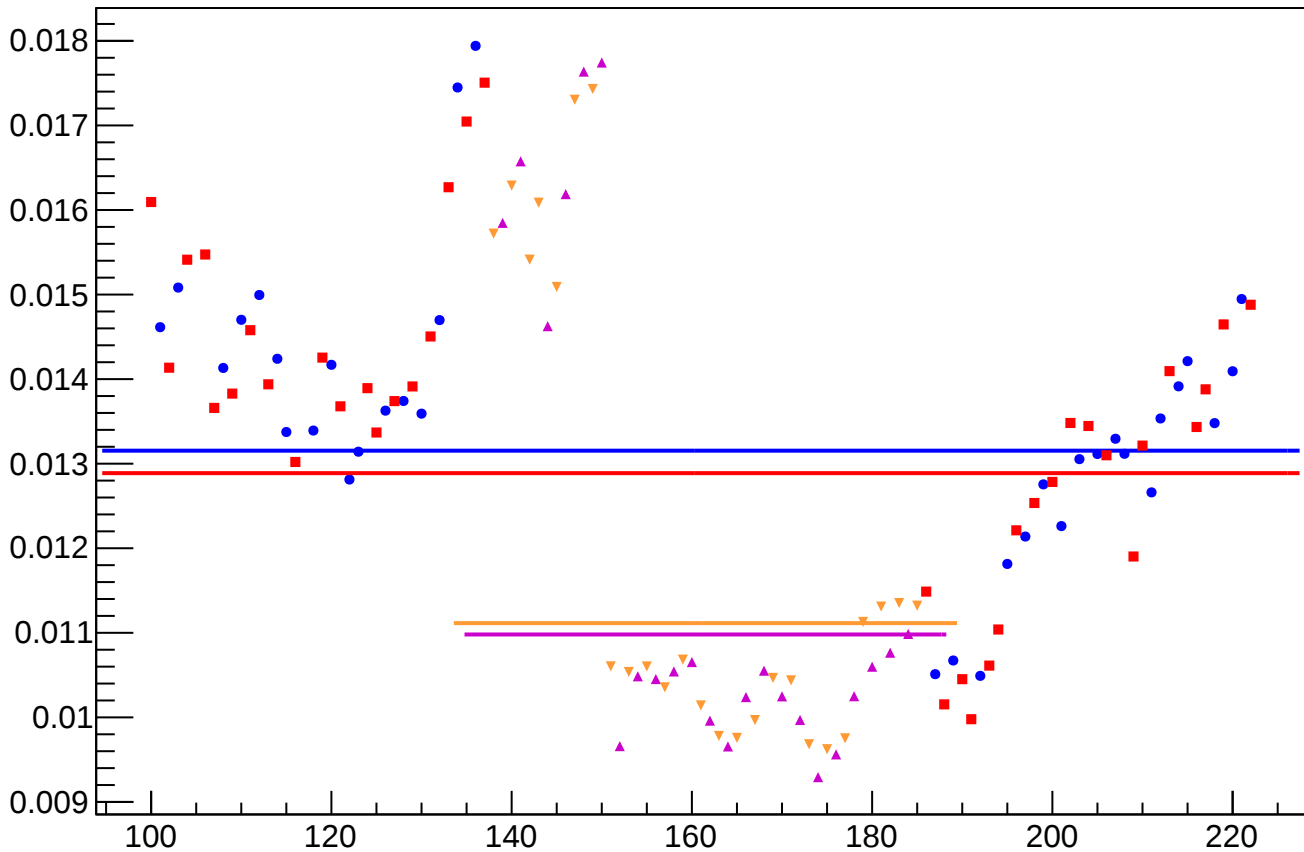
Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

+ sign 1.303 $\pm$ 0.000 χ^2 /NDF: 127932991981.7/59

All: 1.347 $\pm$ 0.000 χ^2 /NDF: 285877515417.9

- sign 1.391 $\pm$ 0.000 χ^2 /NDF: 156974060098.0/60

yield_bpm1i06X_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 476312.1/34

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 652520.7/37

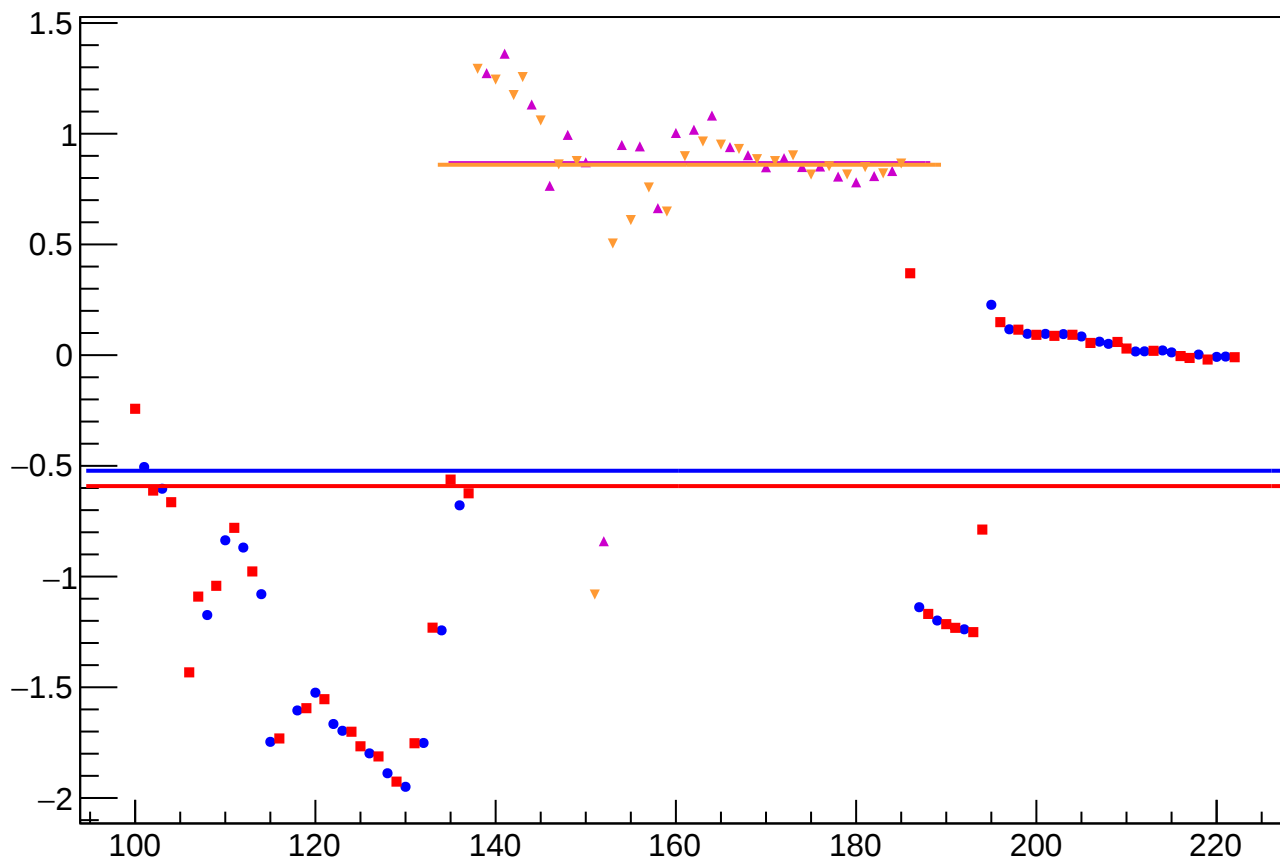
Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

+ sign 0.012+/-0.000 χ^2/NDF : 2218793.0/59

All: 0.012+/-0.000 χ^2/NDF : 4604382.4/120

- sign 0.012+/-0.000 χ^2/NDF : 2380725.0/60

yield_bpm1i06Y_mean vs Slug



Right In: -0.522+/-0.000 χ^2 /NDF: 209691627622.2/34

Left Out: 0.860+/-0.000 χ^2 /NDF:126335891175.4/24

Right Out: -0.591+/-0.000 χ^2 /NDF: 199975298964.1/37

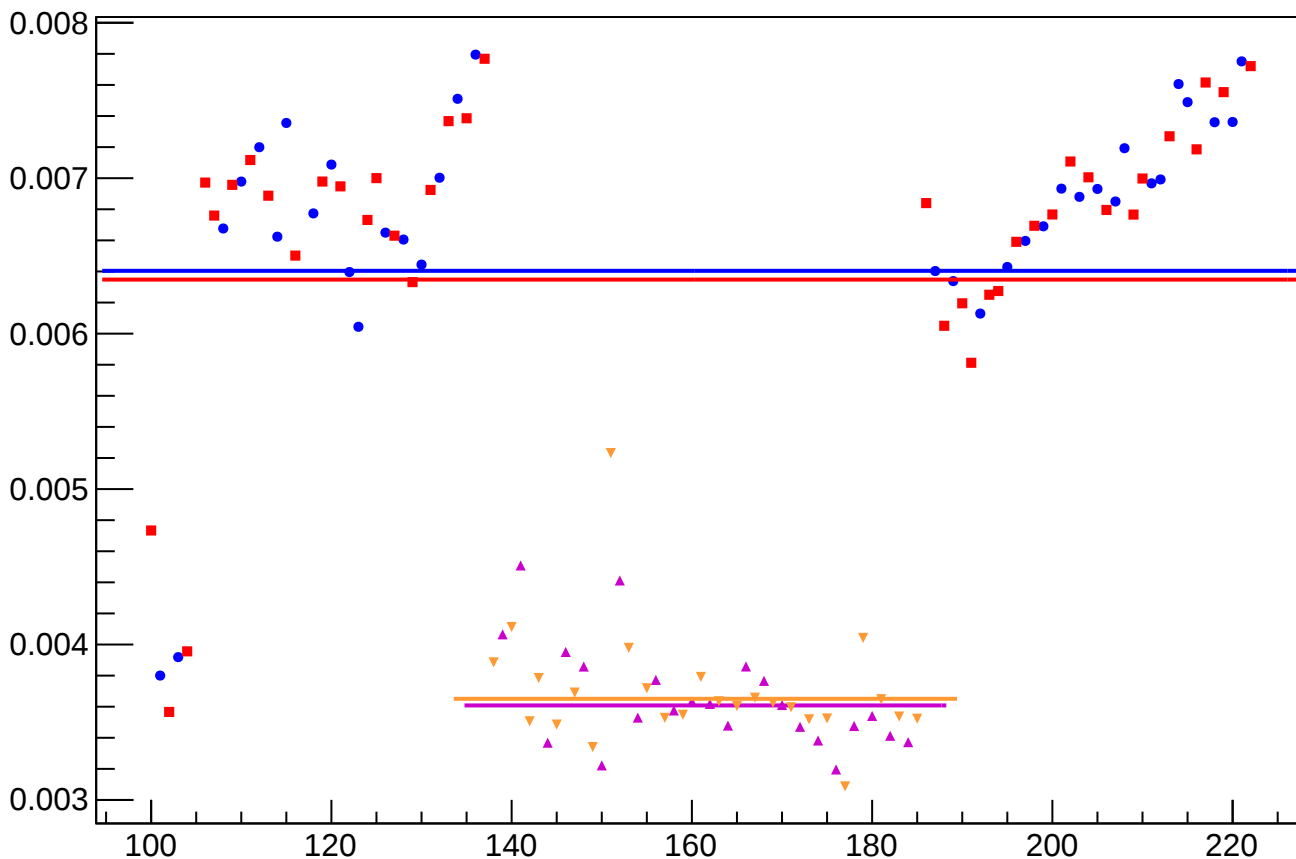
Left In: 0.867+/-0.000 χ^2 /NDF:147039402944.6/22

+ sign 0.502+/-0.000 χ^2 /NDF: 956627939529.2/59

All: 0.481+/-0.000 χ^2 /NDF: 2019843674009.

- sign 0.461+/-0.000 χ^2 /NDF: 1061839650348.4/60

yield_bpm1i06Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 1224373.5/34

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1322282.3/37

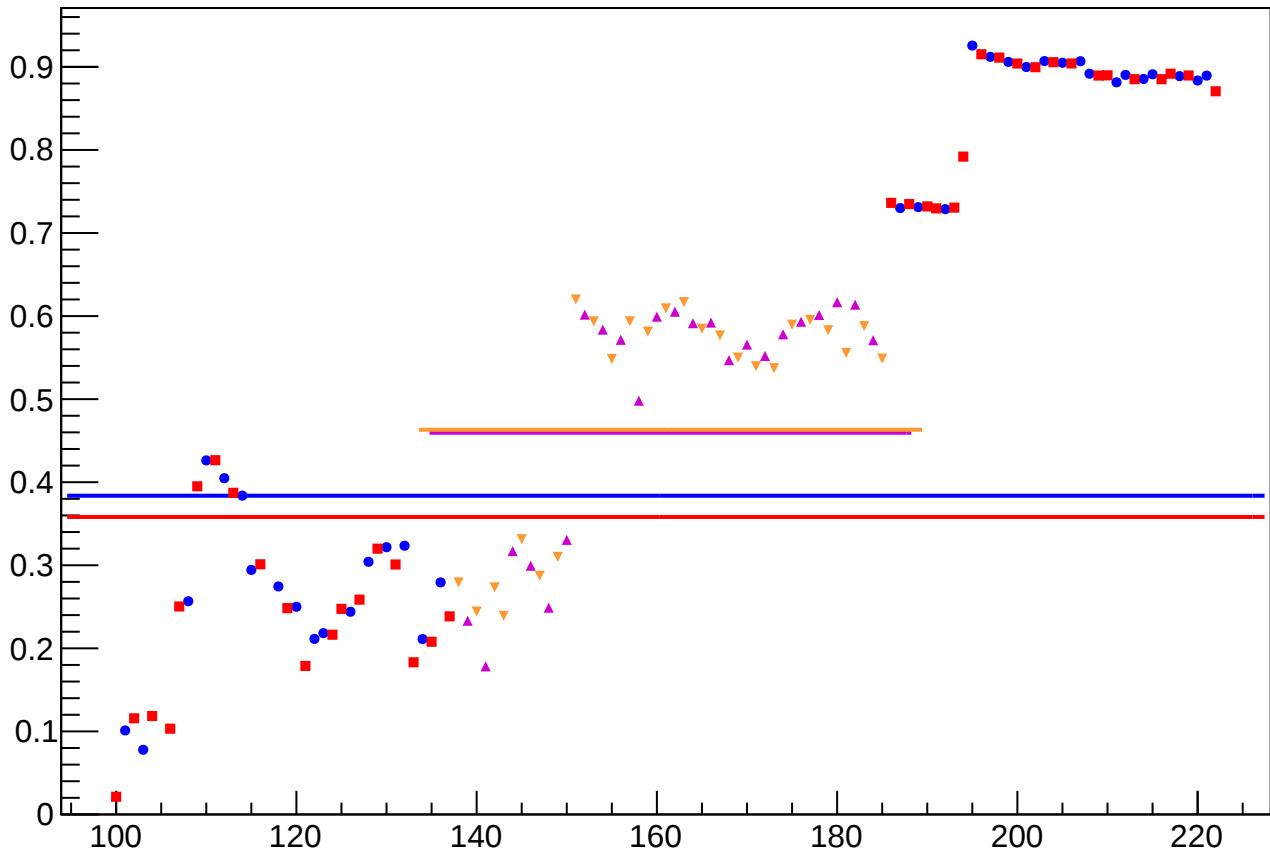
Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

+ sign 0.004+/-0.000 χ^2/NDF : 6387959.0/59

All: 0.004+/-0.000 χ^2/NDF : 12981755.1/120

- sign 0.004+/-0.000 χ^2/NDF : 6593732.2/60

yield_bpm2i01X_mean vs Slug



Right In: 0.384 $\pm$ 0.000 χ^2 /NDF: 216808129529.6/34

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF:102506270538.7/24

Right Out: 0.358 $\pm$ 0.000 χ^2 /NDF: 229983904118.7/37

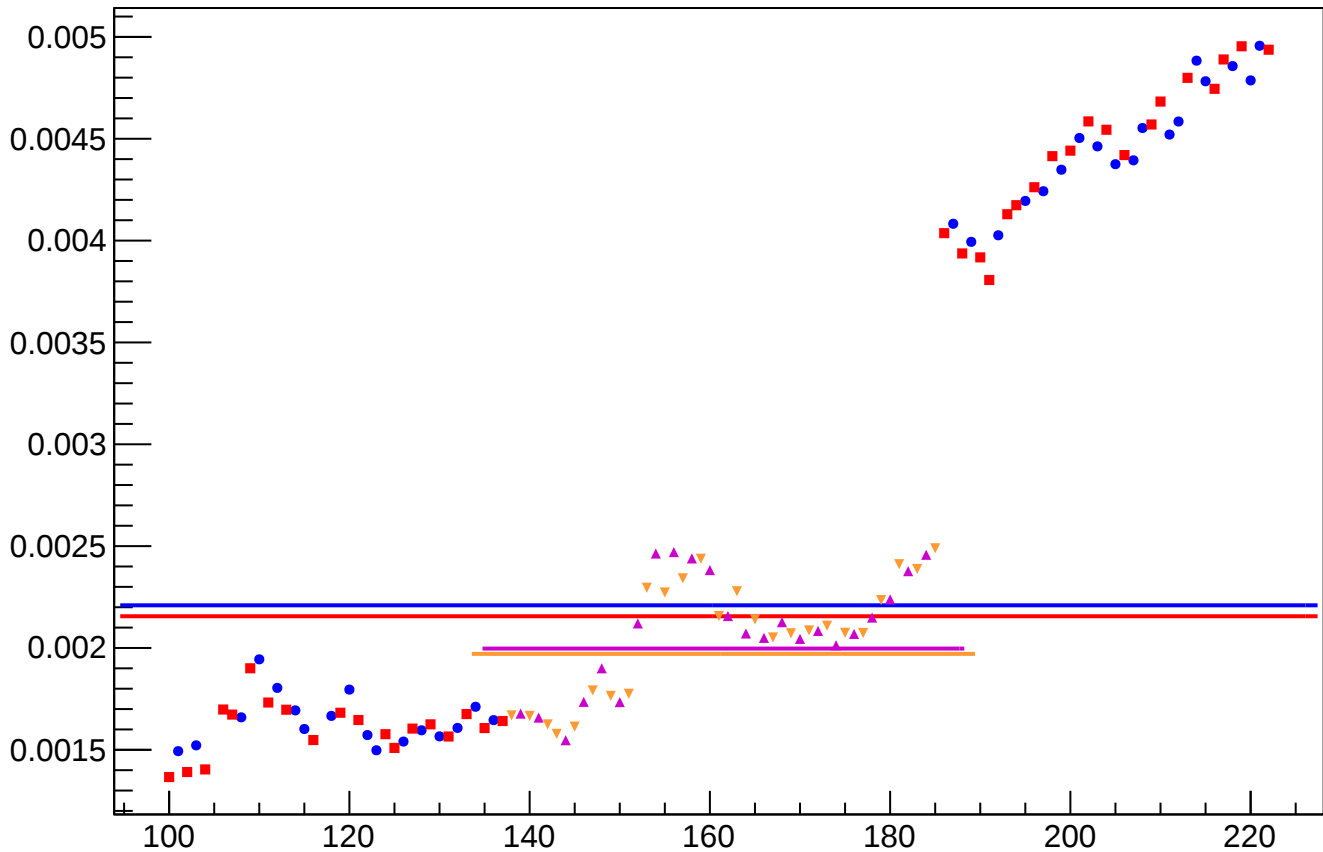
Left In: 0.460 $\pm$ 0.000 χ^2 /NDF:104559088628.4/22

+ sign 0.431 $\pm$ 0.000 χ^2 /NDF: 330930785763.2/59

All: 0.423 $\pm$ 0.000 χ^2 /NDF: 685853491114.1

- sign 0.414 $\pm$ 0.000 χ^2 /NDF: 353821765137.5/60

yield_bpm2i01X_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 8202555.7/34

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8802501.6/37

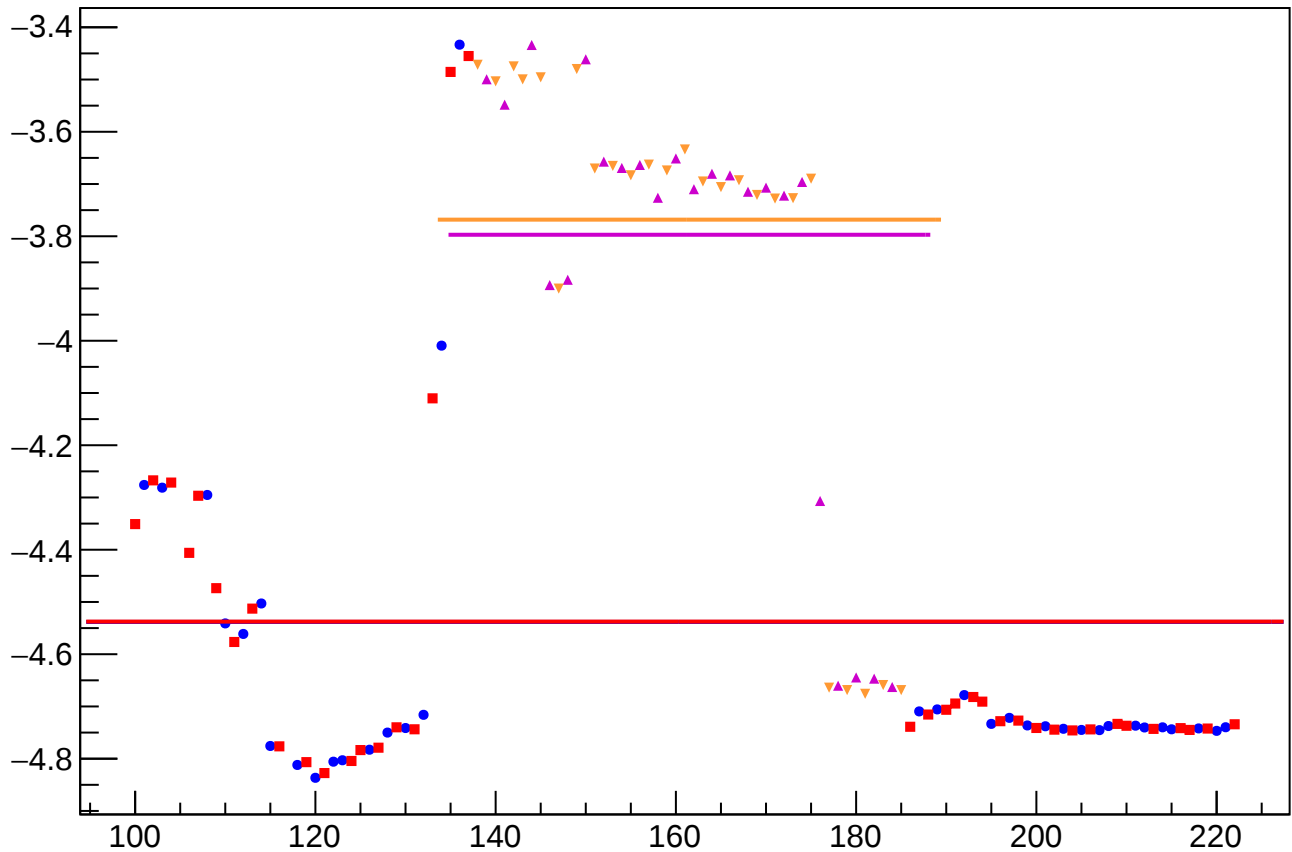
Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

+ sign 0.002+/-0.000 χ^2/NDF : 9141979.8/59

All: 0.002+/-0.000 χ^2/NDF : 18705237.0/120

- sign 0.002+/-0.000 χ^2/NDF : 9563245.0/60

yield_bpm2i01Y_mean vs Slug



Right In: -4.538 ± 0.000 $\chi^2/\text{NDF}: 452907998749.9/34$

Left Out: -3.768 ± 0.000 $\chi^2/\text{NDF}: 516780173940.8/24$

Right Out: -4.538 ± 0.000 $\chi^2/\text{NDF}: 388372029908.6/37$

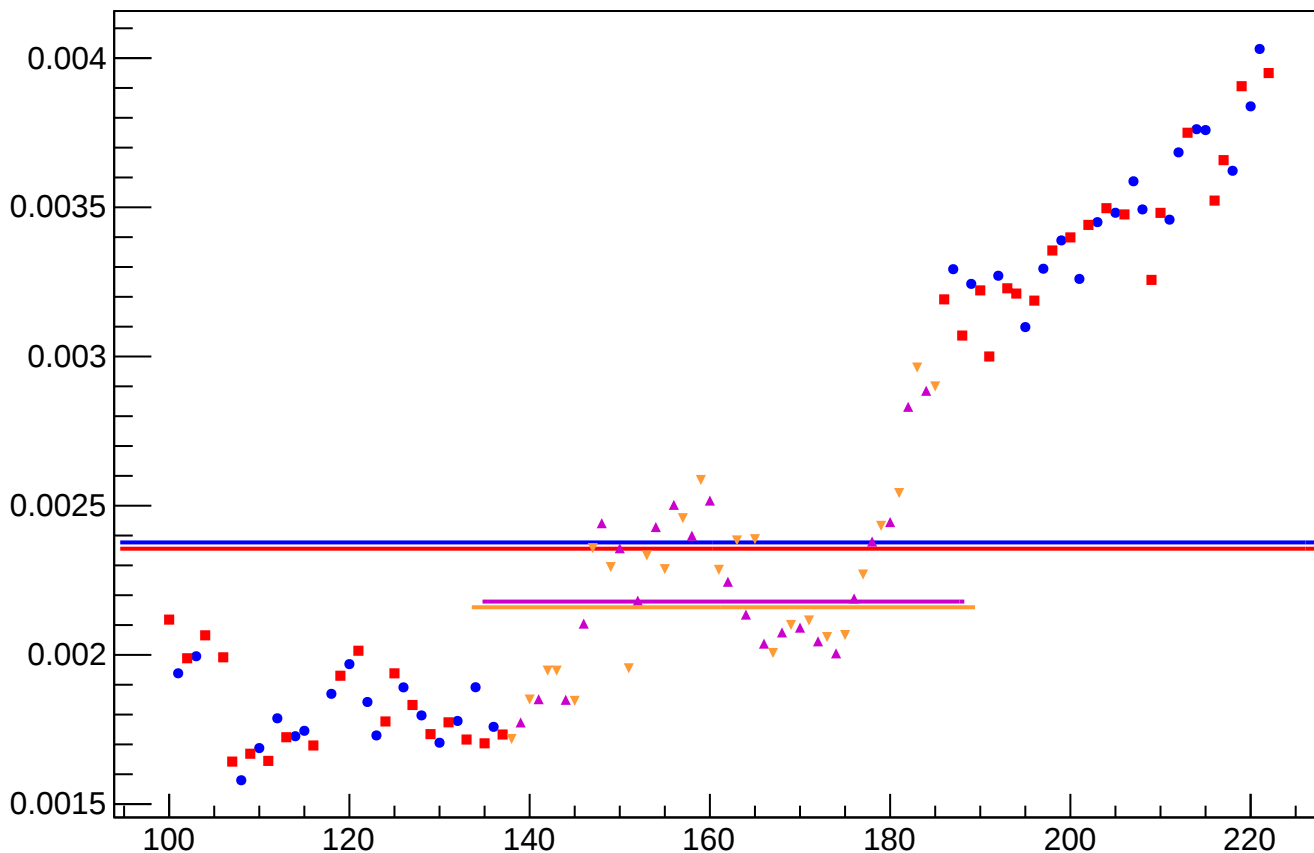
Left In: -3.797 ± 0.000 $\chi^2/\text{NDF}: 444886272608.9/22$

+ sign -4.110 ± 0.000 $\chi^2/\text{NDF}: 1972284331058.9/5$

All: -4.130 ± 0.000 $\chi^2/\text{NDF}: 3742572558698$

- sign -4.151 ± 0.000 $\chi^2/\text{NDF}: 1764359699603.4/60$

yield_bpm2i01Y_rms vs Slug



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 3953971.0/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:547831.5/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 4020433.4/37

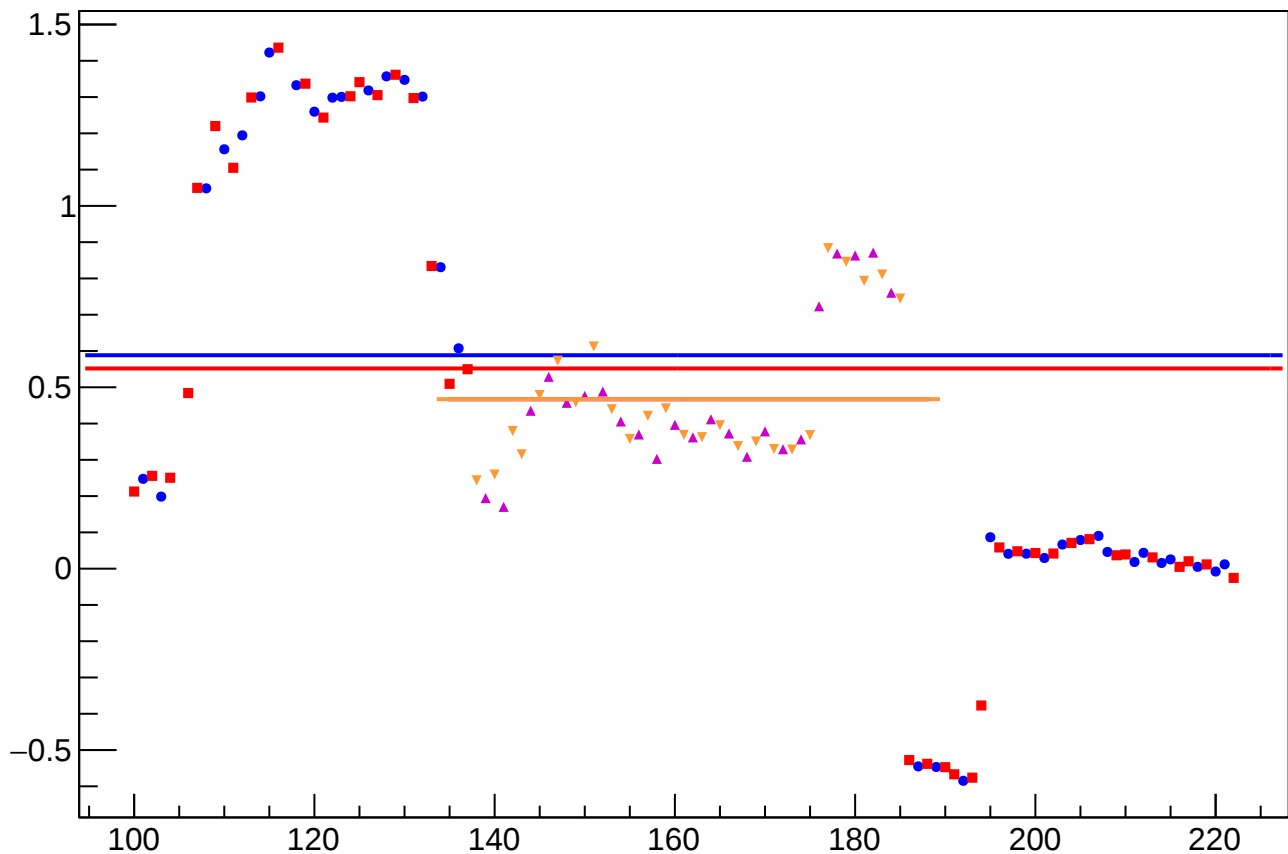
Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:463279.7/22

+ sign 0.002 $\pm$ 0.000 χ^2 /NDF: 4661478.6/59

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 9252265.8/120

- sign 0.002 $\pm$ 0.000 χ^2 /NDF: 4590403.2/60

yield_bpm2i02X_mean vs Slug



Right In: 0.588 ± 0.000 χ^2/NDF : 89613069202.0/34

Left Out: 0.467 ± 0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.552 ± 0.000 χ^2/NDF : 106883947720.8/37

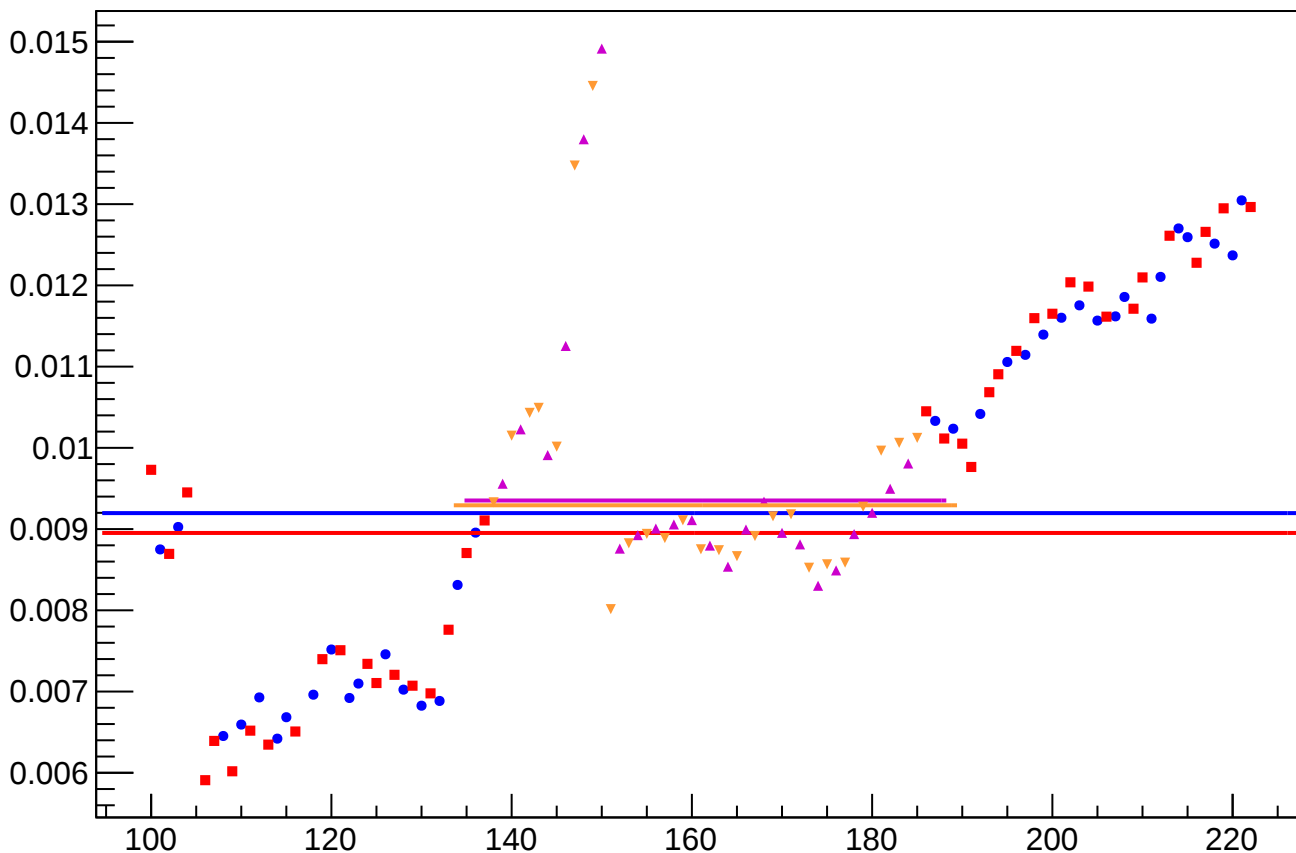
Left In: 0.467 ± 0.000 χ^2/NDF : 8036741308.0/22

+ sign 0.529 ± 0.000 χ^2/NDF : 98528654575.4/59

All: 0.521 ± 0.000 χ^2/NDF : 214268878908.6

- sign 0.513 ± 0.000 χ^2/NDF : 115690463393.3/60

yield_bpm2i02X_rms vs Slug



Right In: 0.009+/-0.000 χ^2/NDF : 2197815.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2648301.0/37

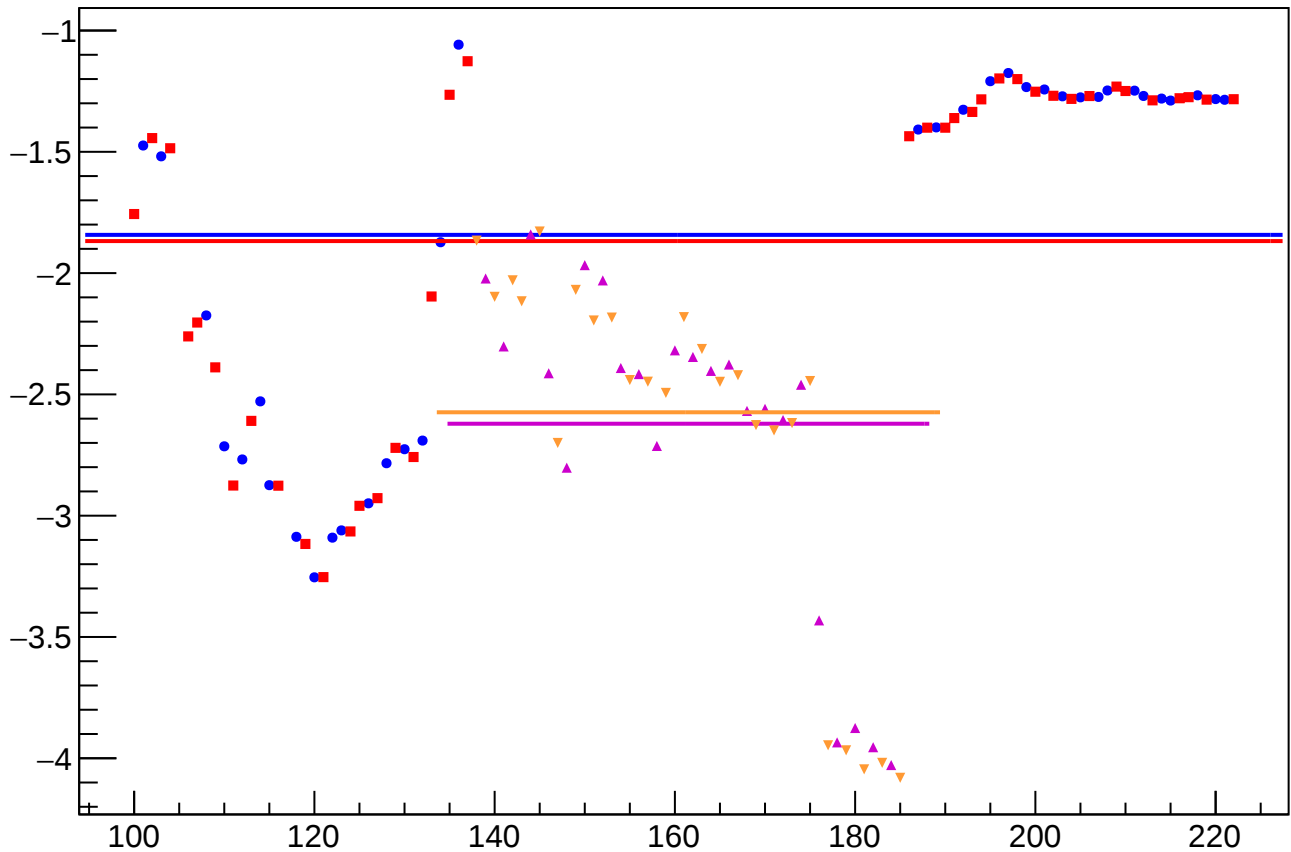
Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

+ sign 0.009+/-0.000 χ^2/NDF : 2728055.2/59

All: 0.009+/-0.000 χ^2/NDF : 5973229.7/120

- sign 0.009+/-0.000 χ^2/NDF : 3239890.5/60

yield_bpm2i02Y_mean vs Slug



Right In: -1.842 ± 0.000 $\chi^2/\text{NDF}: 141756689538.8/34$

Left Out: -2.574 ± 0.000 $\chi^2/\text{NDF}: 99176112704.9/24$

Right Out: -1.868 ± 0.000 $\chi^2/\text{NDF}: 139574814722.7/37$

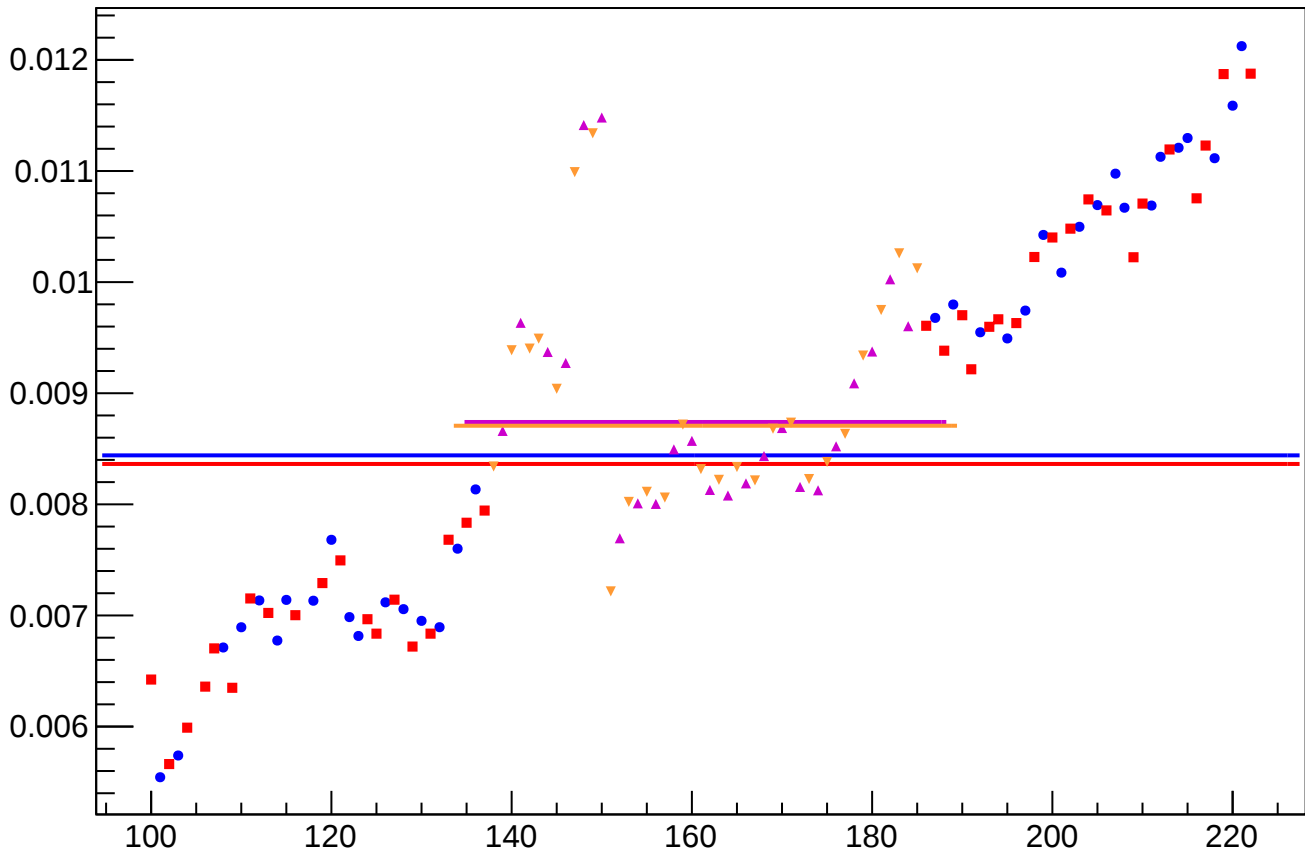
Left In: -2.621 ± 0.000 $\chi^2/\text{NDF}: 80862402796.4/22$

+ sign -2.195 ± 0.000 $\chi^2/\text{NDF}: 307348379370.1/59$

All: -2.200 ± 0.000 $\chi^2/\text{NDF}: 597990440584.7$

- sign -2.205 ± 0.000 $\chi^2/\text{NDF}: 290614089473.2/60$

yield_bpm2i02Y_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 2038338.3/34

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:369376.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 2007125.8/37

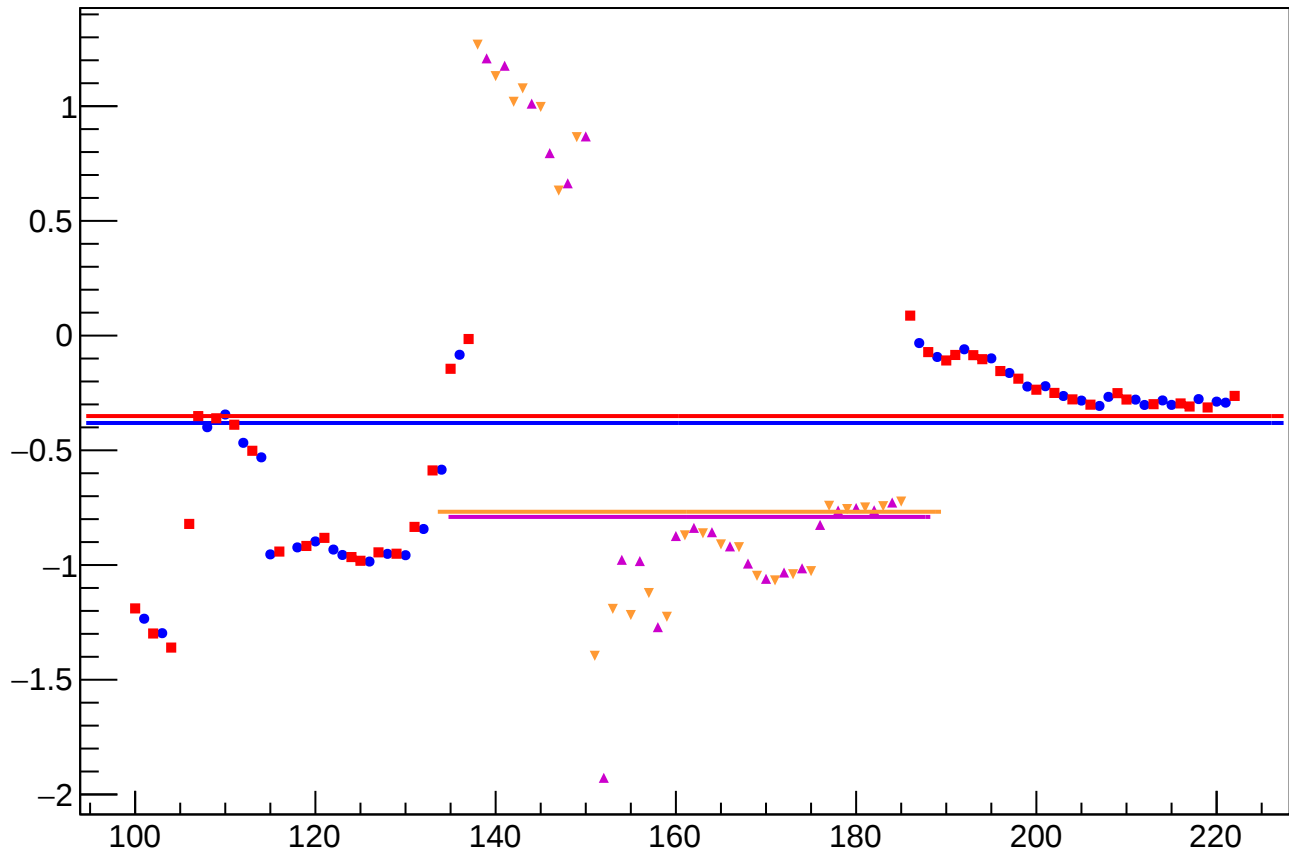
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:353750.0/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2425373.0/59

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4822253.5/120

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2396212.4/60

yield_bpm0i01X_mean vs Slug



Right In: -0.381 ± 0.000 χ^2/NDF : 23284563351.1/34

Left Out: -0.768 ± 0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.351 ± 0.000 χ^2/NDF : 25440041890.5/37

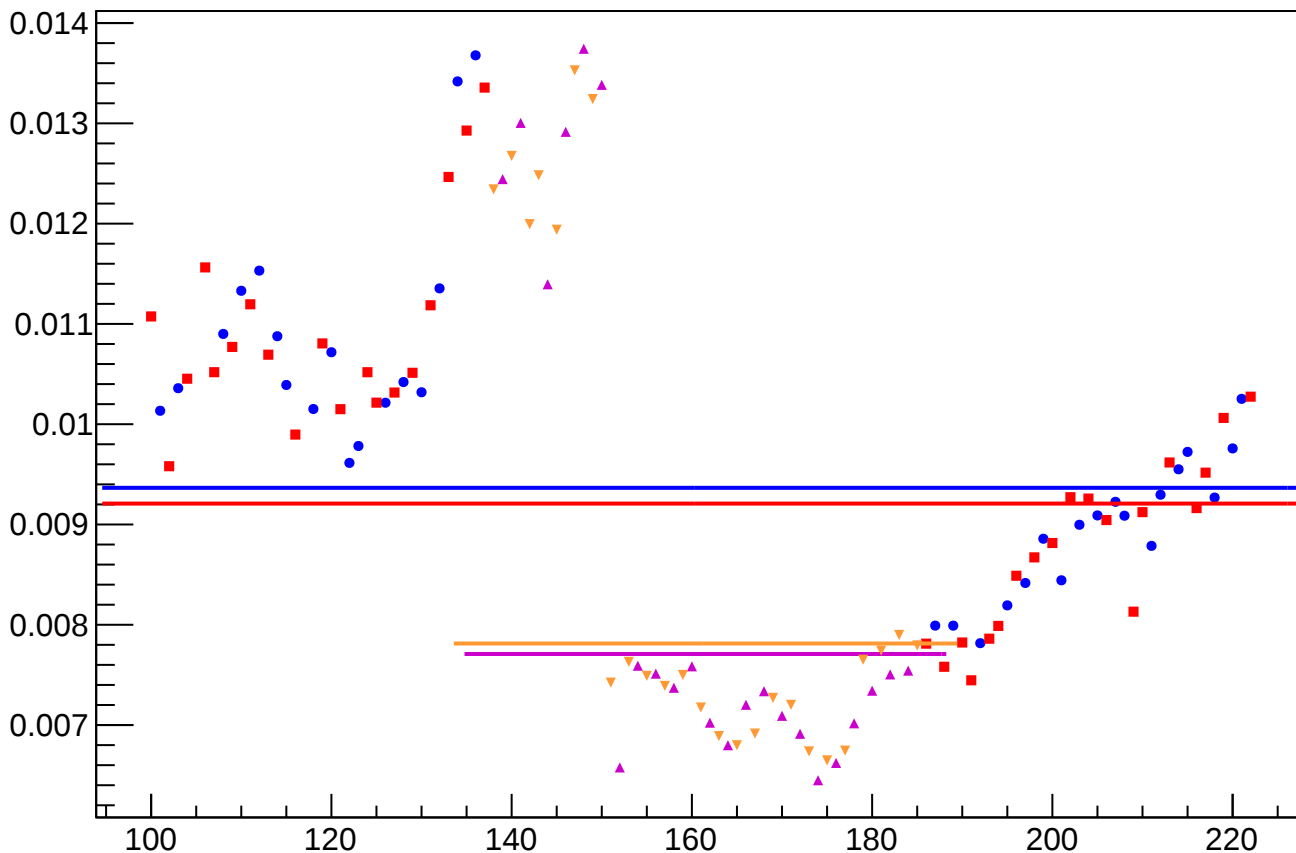
Left In: -0.790 ± 0.000 χ^2/NDF : 123452478408.2/22

+ sign -0.600 ± 0.000 χ^2/NDF : 162310423065.7/59

All: -0.594 ± 0.000 χ^2/NDF : 335407666050.3

- sign -0.588 ± 0.000 χ^2/NDF : 173060865656.6/60

yield_bpm0i01X_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 560049.3/34

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1705997.6/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 687563.8/37

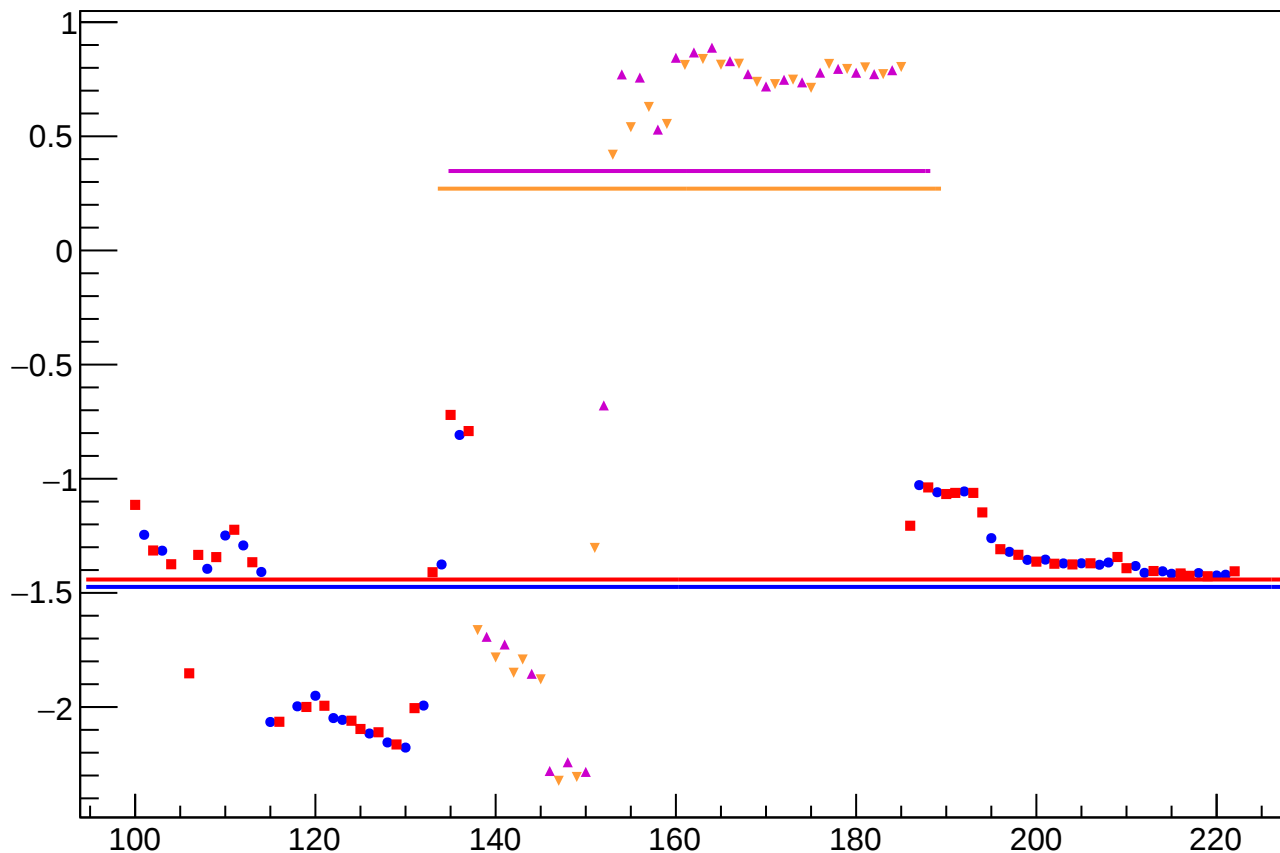
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:1746653.6/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 2853609.6/59

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 5854297.3/120

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 2996903.8/60

yield_bpm0i01Y_mean vs Slug



Right In: -1.474 ± 0.000 χ^2/NDF : 175421305517.7/34

Left Out: 0.271 ± 0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.441 ± 0.000 χ^2/NDF : 164615515728.4/37

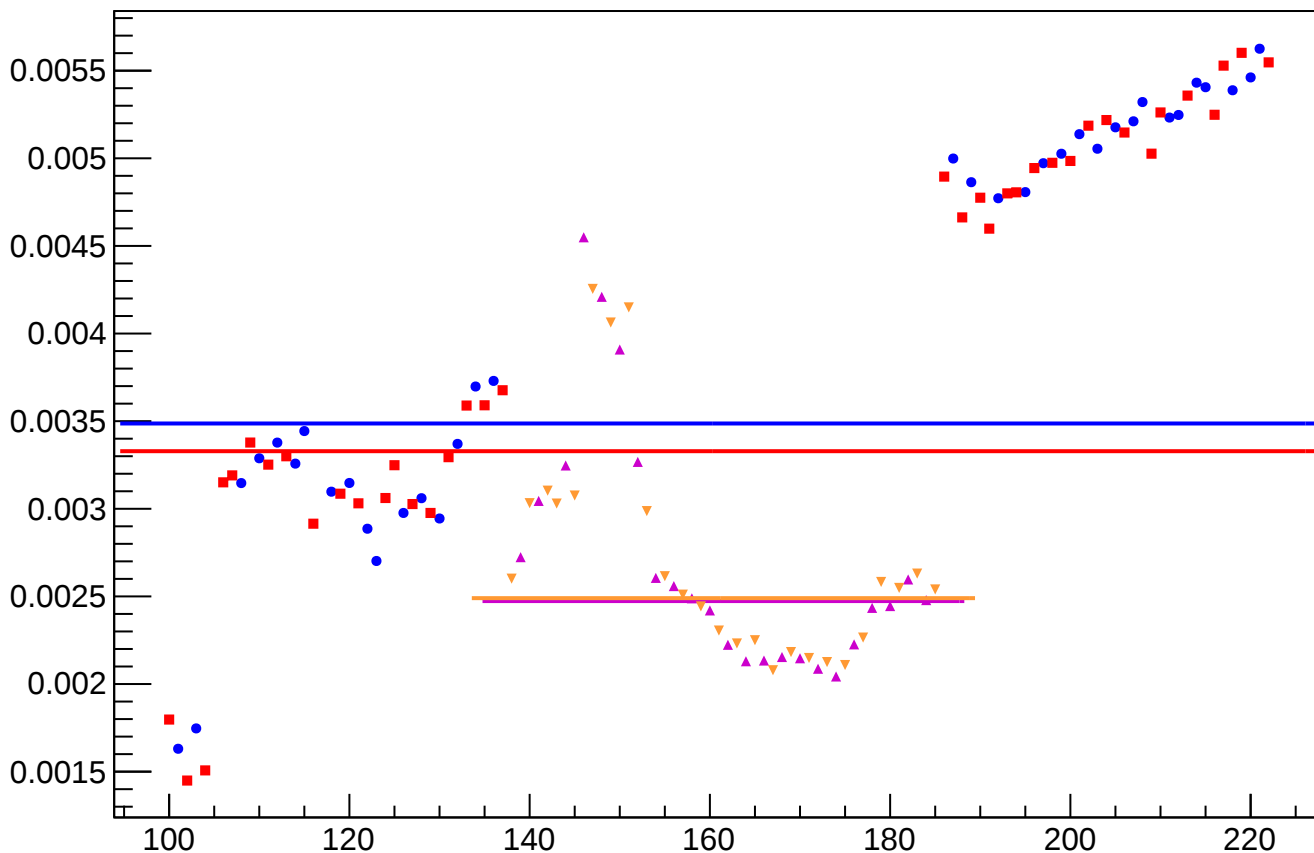
Left In: 0.348 ± 0.000 χ^2/NDF : 2274004426513.8/22

+ sign -0.312 ± 0.000 χ^2/NDF : 5426007811562.4/5

All: -0.314 ± 0.000 χ^2/NDF : 1081506657666

- sign -0.316 ± 0.000 χ^2/NDF : 5389029404751.3/60

yield_bpm0i01Y_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 5055177.1/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1070282.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 6221590.4/37

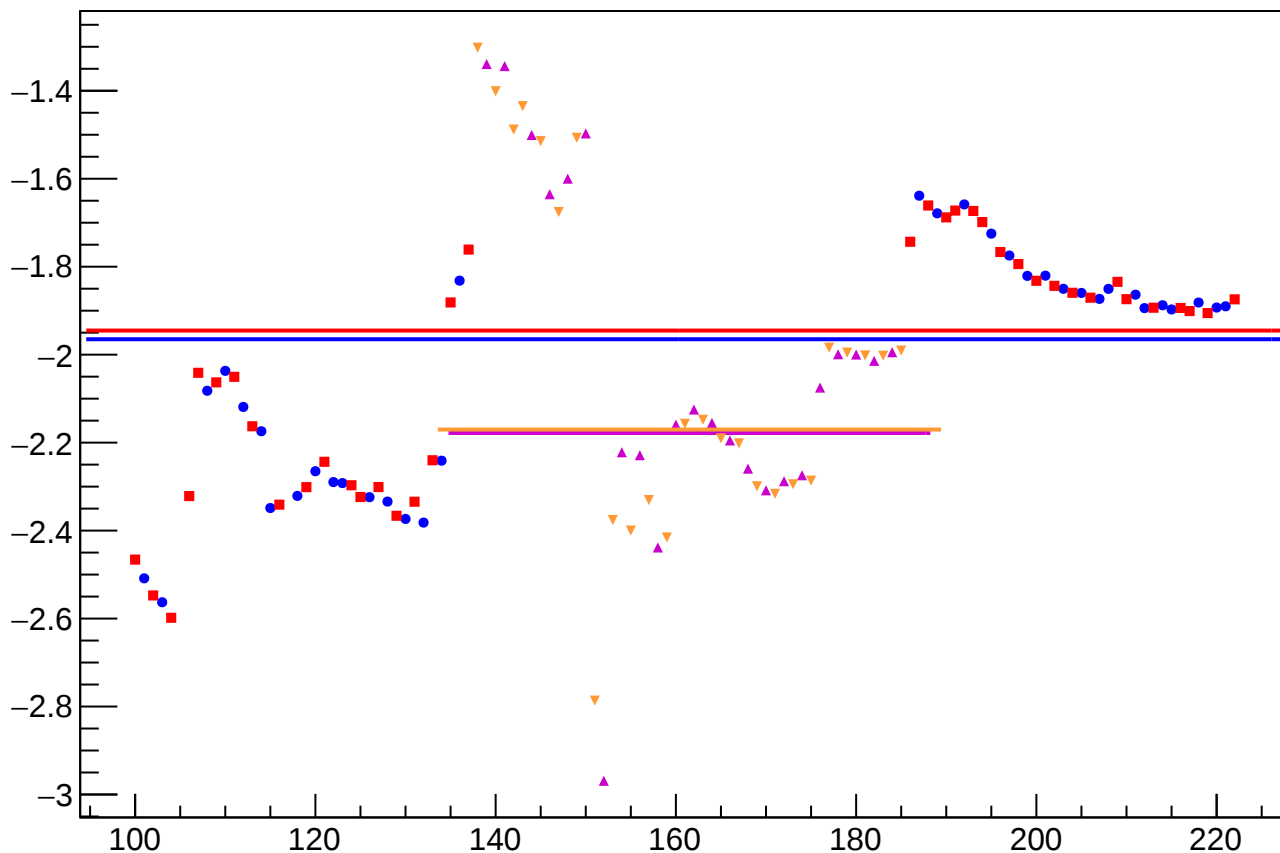
Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1135279.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 7866767.5/59

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 16575809.4/120

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 8704928.4/60

yield_bpm0i01aX_mean vs Slug



Right In: -1.965+/-0.000 χ^2/NDF : 31854106906.1/34

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.945+/-0.000 χ^2/NDF : 35553197086.2/37

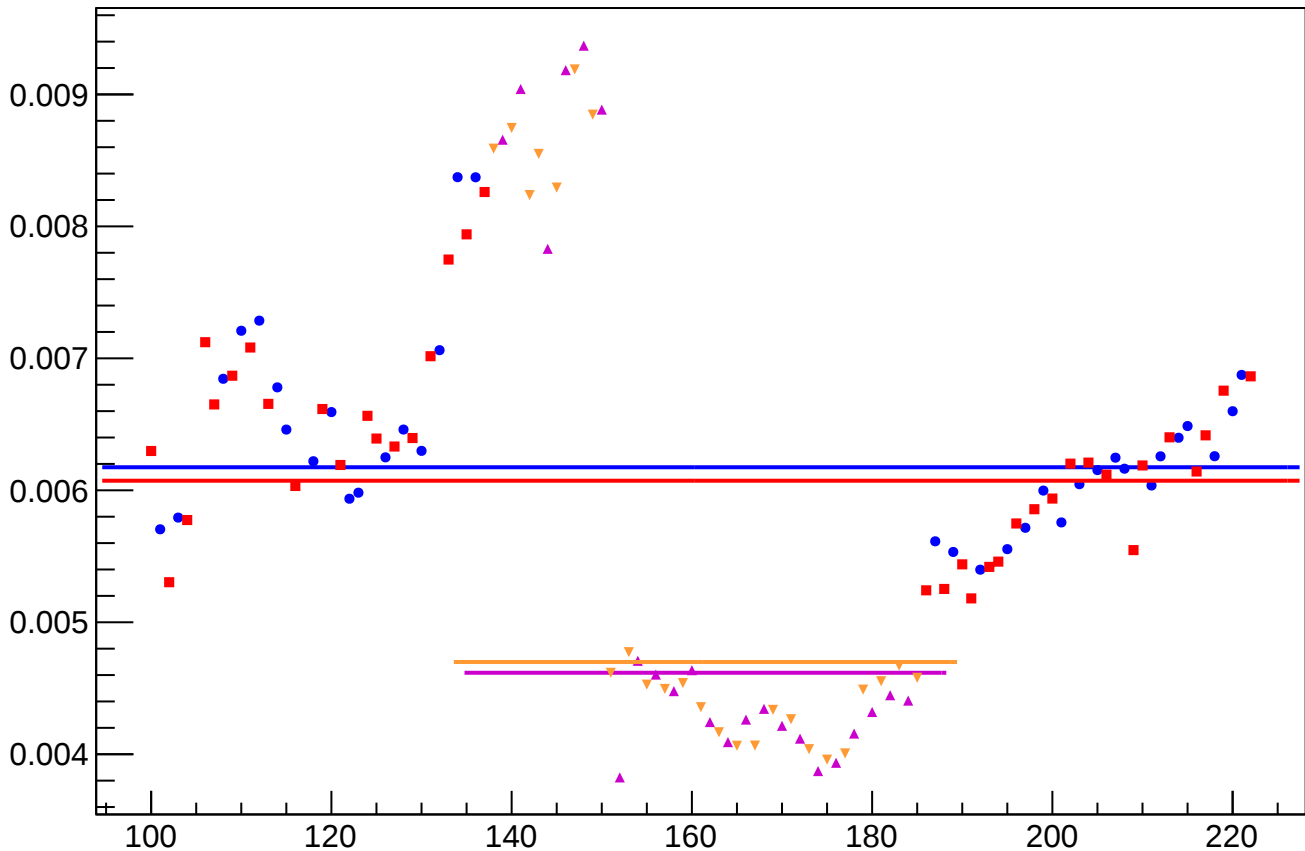
Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

+ sign -2.089+/-0.000 χ^2/NDF : 104406212249.6/59

All: -2.084+/-0.000 χ^2/NDF : 230139822780.5

- sign -2.080+/-0.000 χ^2/NDF : 125681718440.0/60

yield_bpm0i01aX_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 327036.9/34

Left Out: 0.005+/-0.000 χ^2/NDF : 2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 416830.4/37

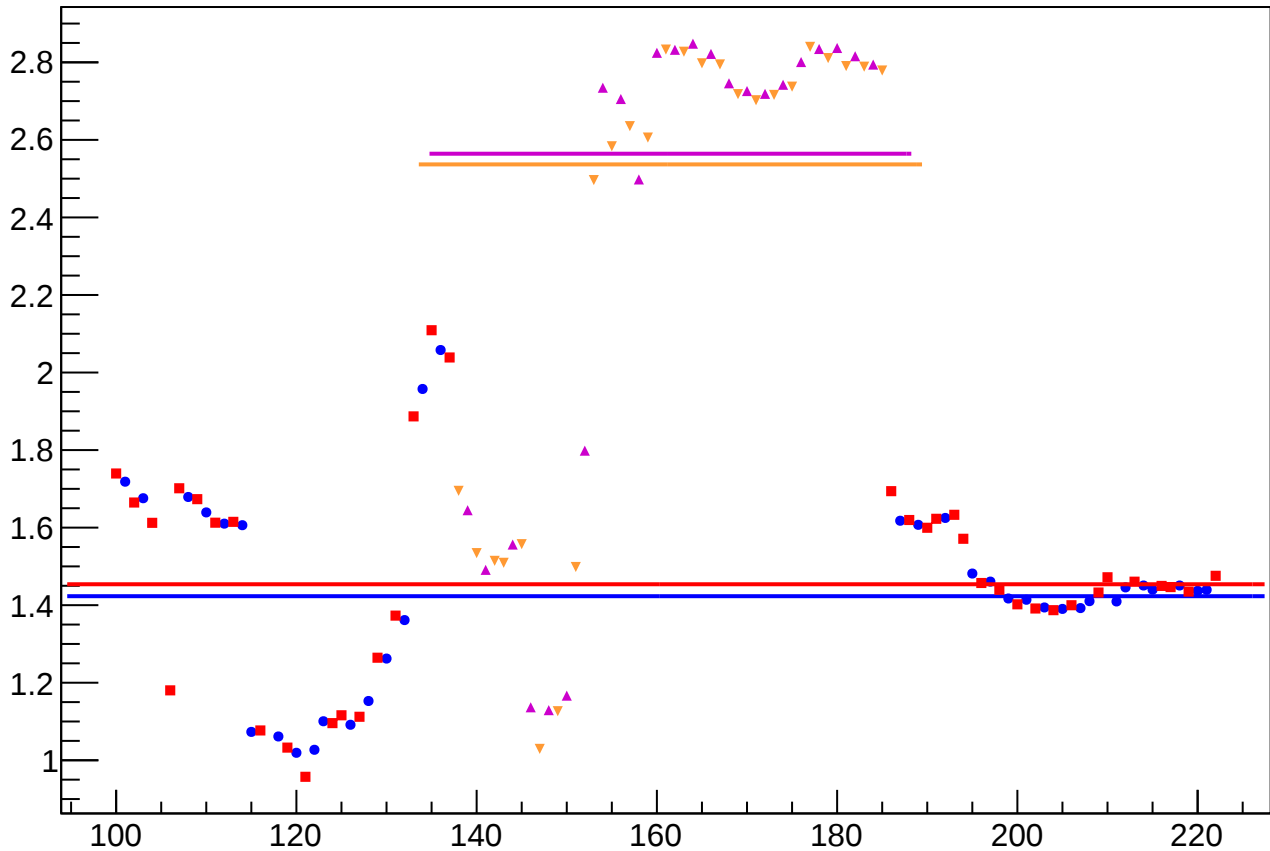
Left In: 0.005+/-0.000 χ^2/NDF : 2367440.9/22

+ sign 0.005+/-0.000 χ^2/NDF : 3946903.7/59

All: 0.005+/-0.000 χ^2/NDF : 8040961.0/120

- sign 0.005+/-0.000 χ^2/NDF : 4090620.9/60

yield_bpm0i01aY_mean vs Slug



Right In: 1.423+/-0.000 χ^2/NDF : 174221312454.0/34

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177018575270.0/37

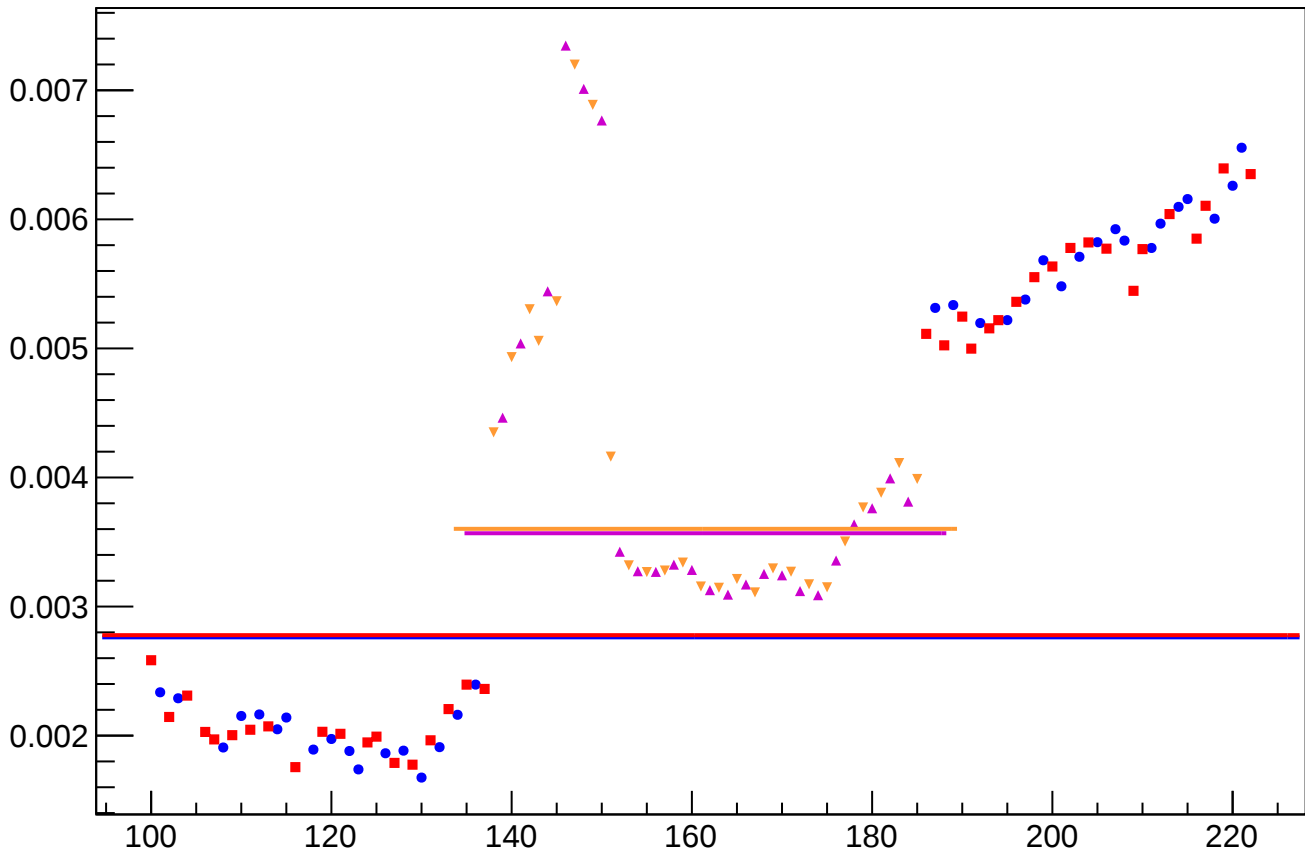
Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

+ sign 1.873+/-0.000 χ^2/NDF : 1396040285617.3/59

All: 1.875+/-0.000 χ^2/NDF : 2768838799769.

- sign 1.877+/-0.000 χ^2/NDF : 1372769630458.2/60

yield_bpm0i01aY_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 8668281.1/34

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8656801.9/37

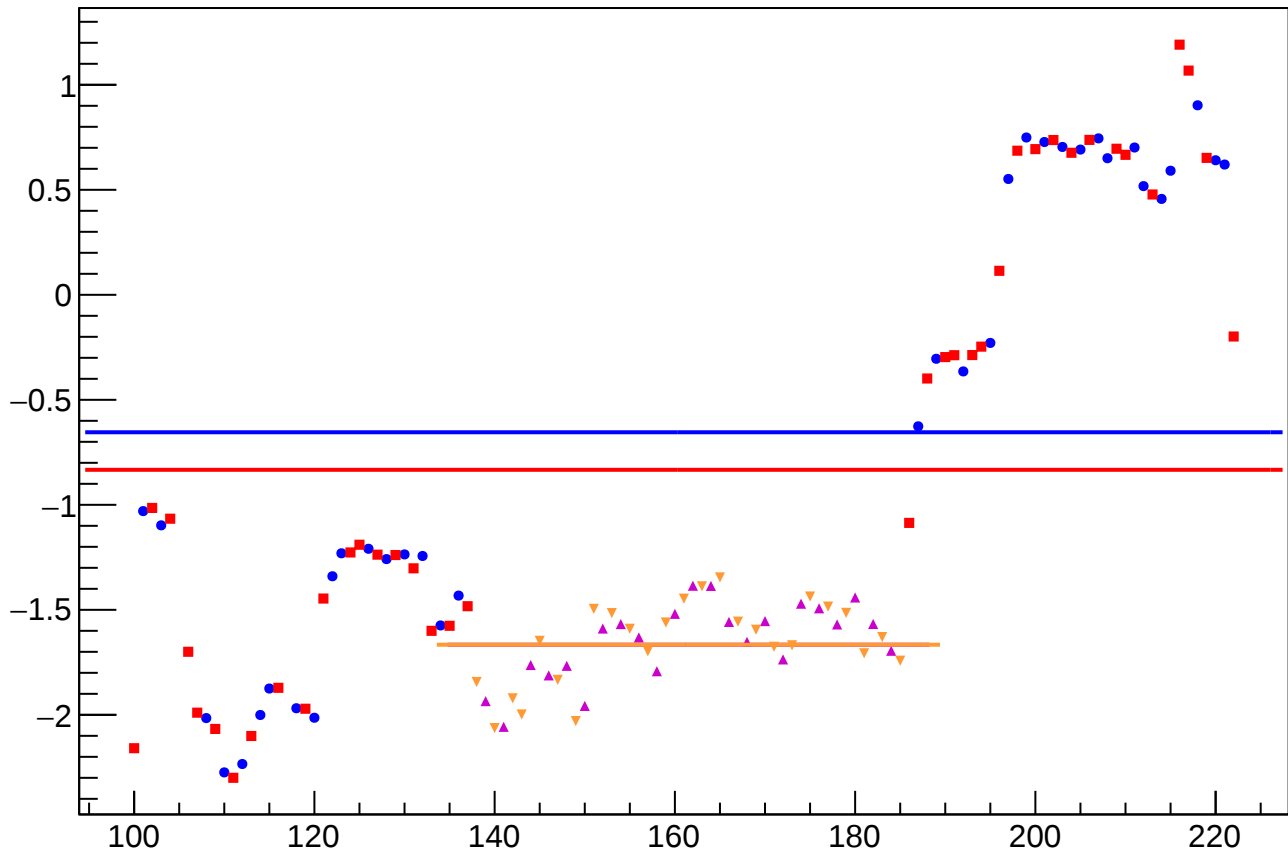
Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

+ sign 0.003+/-0.000 χ^2/NDF : 11164792.7/59

All: 0.003+/-0.000 χ^2/NDF : 22332269.8/120

- sign 0.003+/-0.000 χ^2/NDF : 11165965.7/60

yield_bpm0l01X_mean vs Slug



Right In: -0.654 ± 0.000 $\chi^2/\text{NDF}: 267935638545.8/34$

Left Out: -1.666 ± 0.000 $\chi^2/\text{NDF}: 18325162131.2/24$

Right Out: -0.833 ± 0.000 $\chi^2/\text{NDF}: 303537143134.9/37$

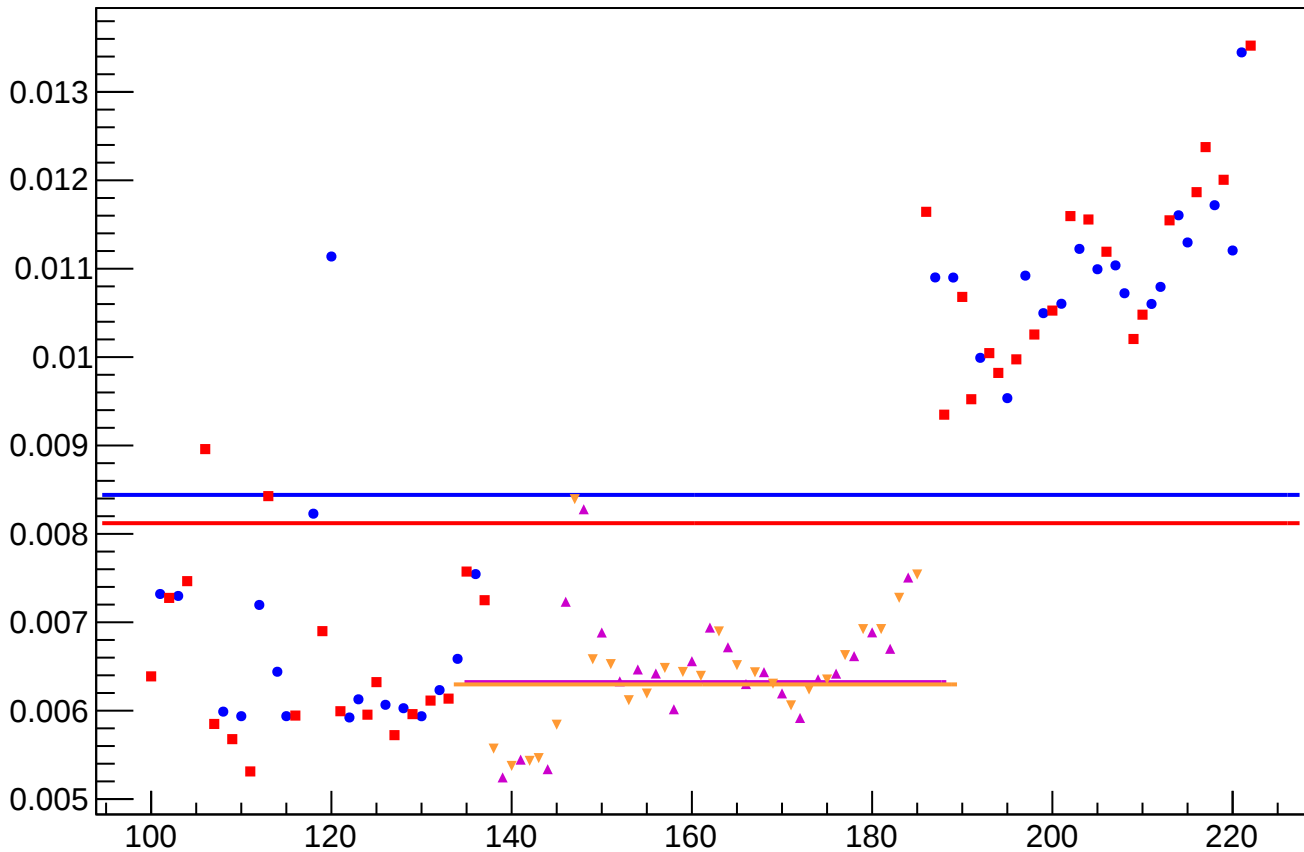
Left In: -1.666 ± 0.000 $\chi^2/\text{NDF}: 14292570816.9/22$

+ sign -1.306 ± 0.000 $\chi^2/\text{NDF}: 446629325992.0/59$

All: -1.320 ± 0.000 $\chi^2/\text{NDF}: 878404286151.5$

- sign -1.333 ± 0.000 $\chi^2/\text{NDF}: 431531935109.1/60$

yield_bpm0l01X_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 2443934.3/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 310757.0/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3021003.9/37

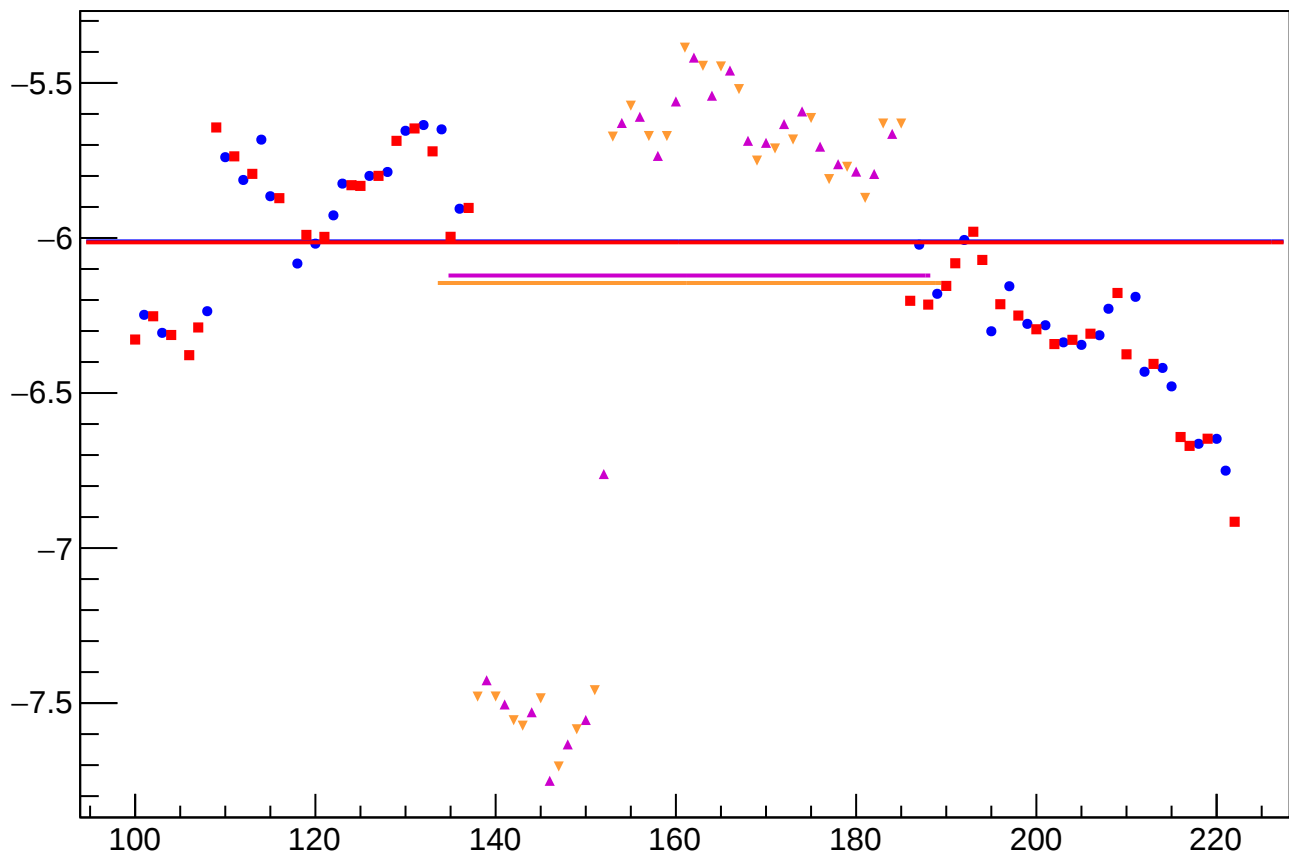
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF: 330859.7/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 4195053.9/59

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 8606759.8/120

- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 4411497.8/60

yield_bpm0l01Y_mean vs Slug



Right In: -6.011+/-0.000 χ^2/NDF : 21666985288.5/34

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -6.014+/-0.000 χ^2/NDF : 24742939275.5/37

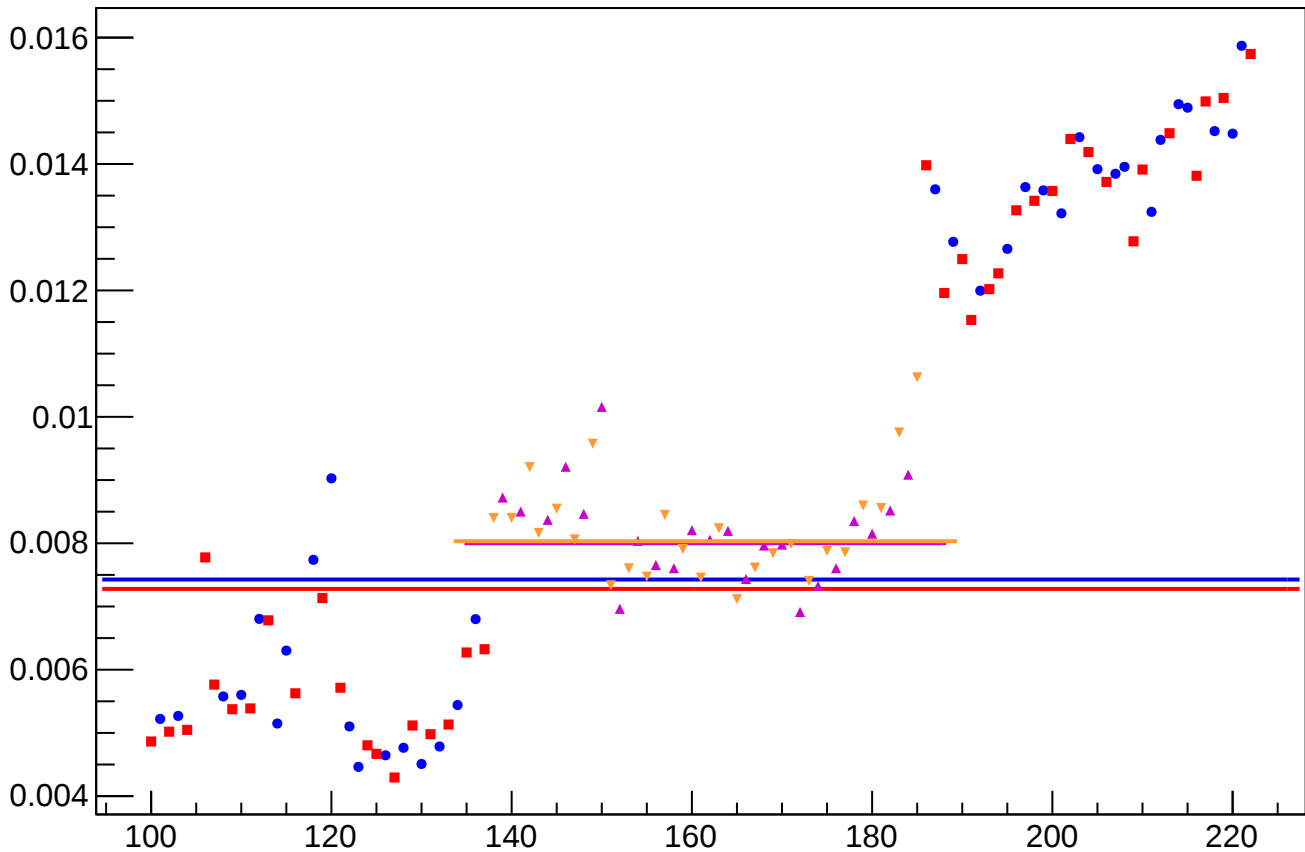
Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

+ sign -6.077+/-0.000 χ^2/NDF : 209388223725.5/59

All: -6.070+/-0.000 χ^2/NDF : 394029735203.9

- sign -6.063+/-0.000 χ^2/NDF : 184590799870.8/60

yield_bpm0l01Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 7289884.7/34

Left Out: 0.008+/-0.000 χ^2/NDF : 205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7427163.2/37

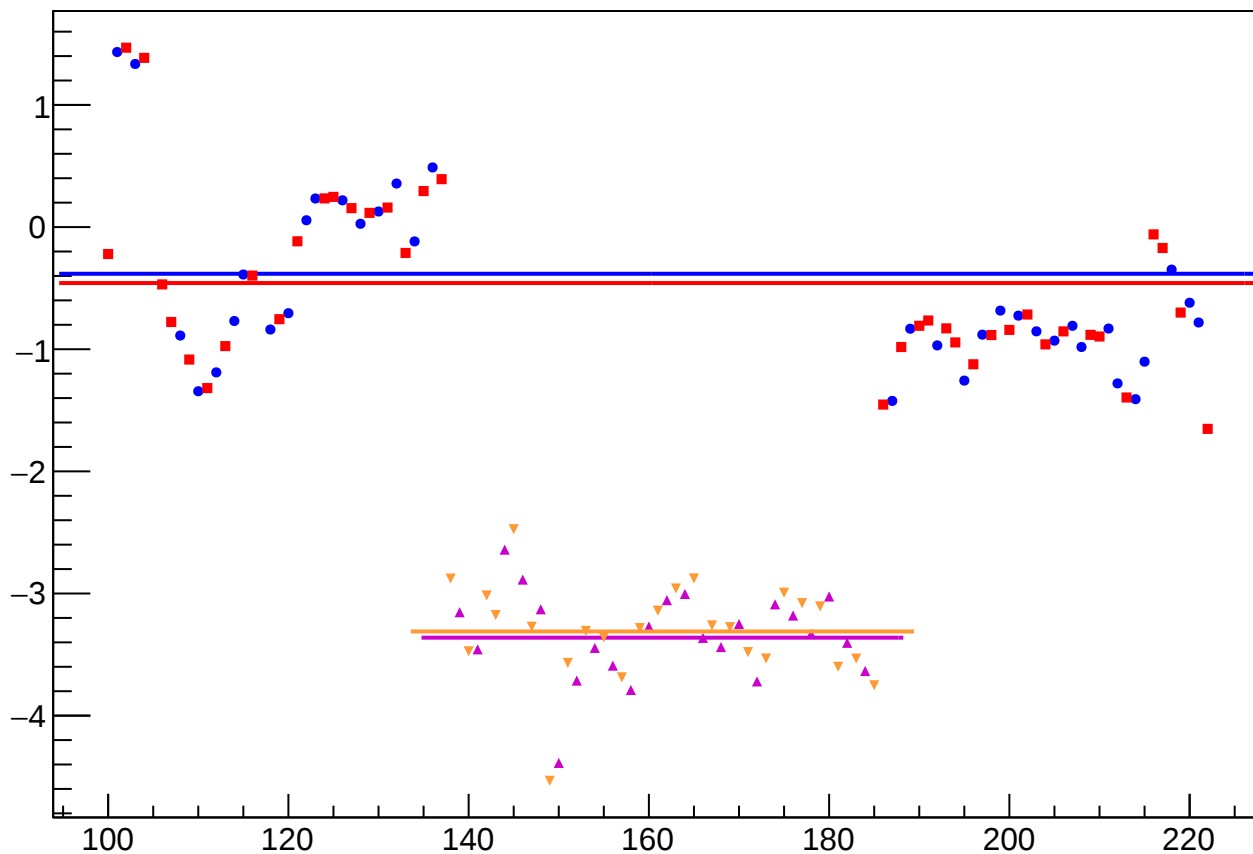
Left In: 0.008+/-0.000 χ^2/NDF : 220756.1/22

+ sign 0.008+/-0.000 χ^2/NDF : 7591822.3/59

All: 0.008+/-0.000 χ^2/NDF : 15386851.9/120

- sign 0.008+/-0.000 χ^2/NDF : 7787986.9/60

yield_bpm0l02X_mean vs Slug



Right In: -0.382 ± 0.000 χ^2/NDF : 36697953315.6/34

Left Out: -3.311 ± 0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.458 ± 0.000 χ^2/NDF : 37567048113.8/37

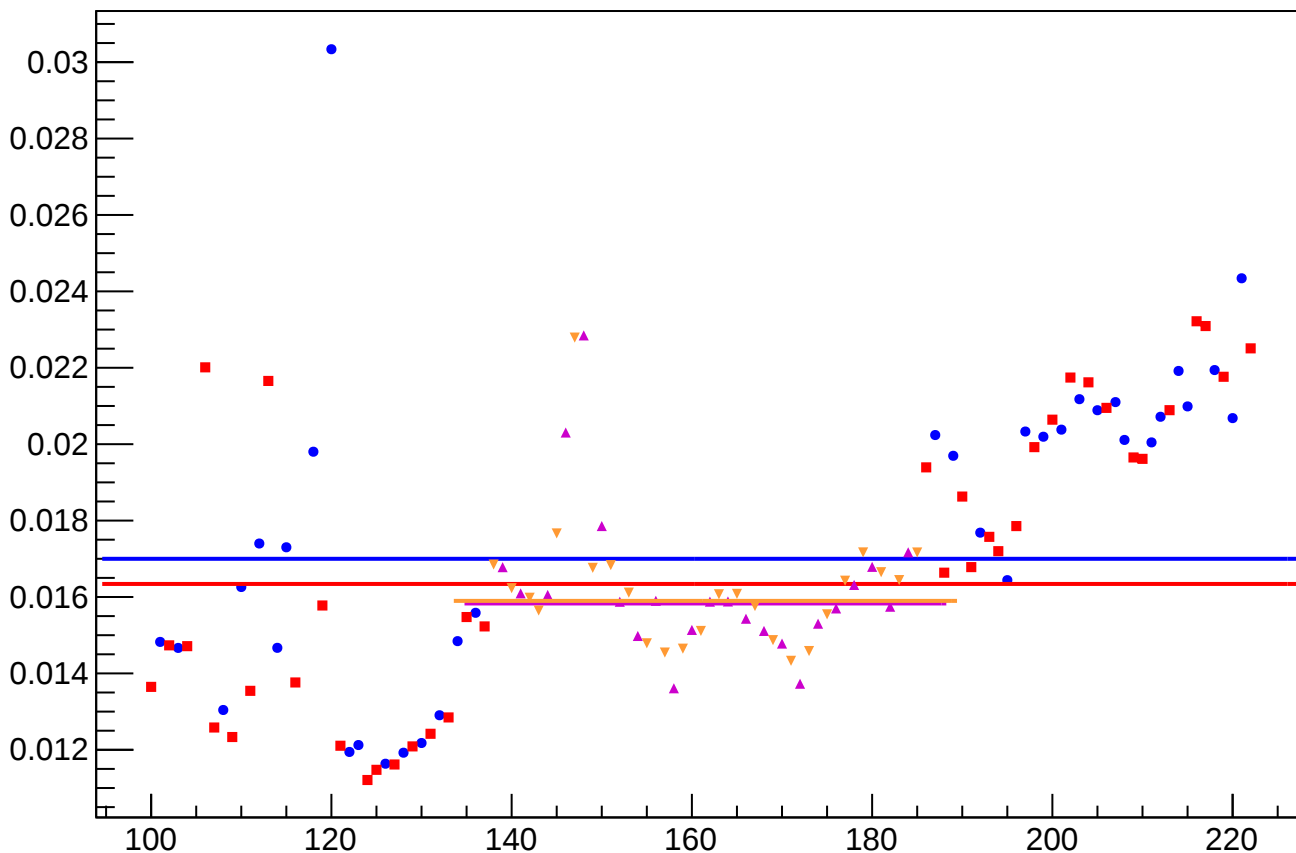
Left In: -3.362 ± 0.000 χ^2/NDF : 8171803777.4/22

+ sign -1.944 ± 0.000 χ^2/NDF : 325914226538.7/59

All: -1.909 ± 0.000 χ^2/NDF : 658081698698.9

- sign -1.875 ± 0.000 χ^2/NDF : 331841671548.8/60

yield_bpm0l02X_rms vs Slug



Right In: 0.017+/-0.000 χ^2/NDF : 1760271.5/34

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1983816.4/37

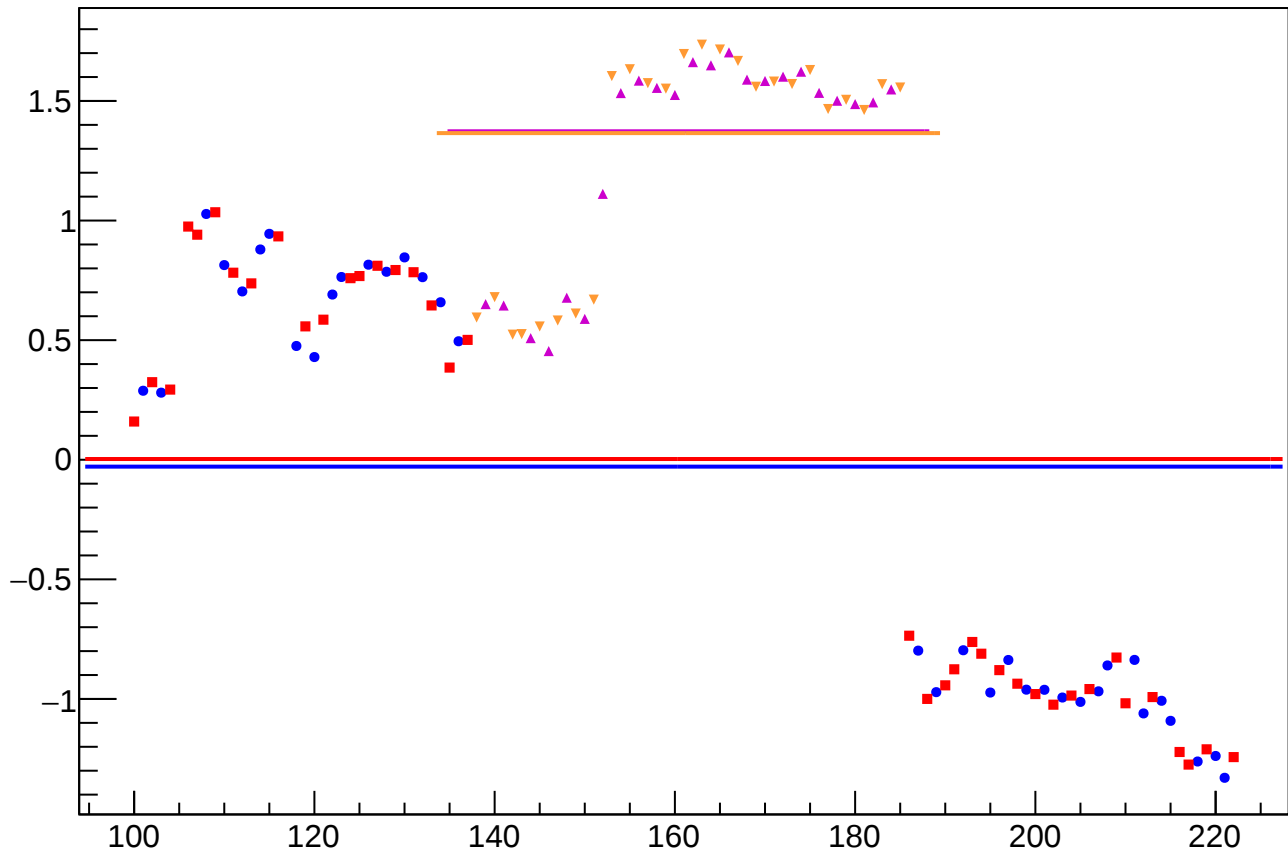
Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

+ sign 0.016+/-0.000 χ^2/NDF : 2091344.3/59

All: 0.016+/-0.000 χ^2/NDF : 4446072.8/120

- sign 0.016+/-0.000 χ^2/NDF : 2341075.2/60

yield_bpm0l02Y_mean vs Slug



Right In: -0.029 ± 0.000 $\chi^2/\text{NDF}: 104711829195.6/34$

Left Out: 1.366 ± 0.000 $\chi^2/\text{NDF}: 74741956067.9/24$

Right Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 115783473835.3/37$

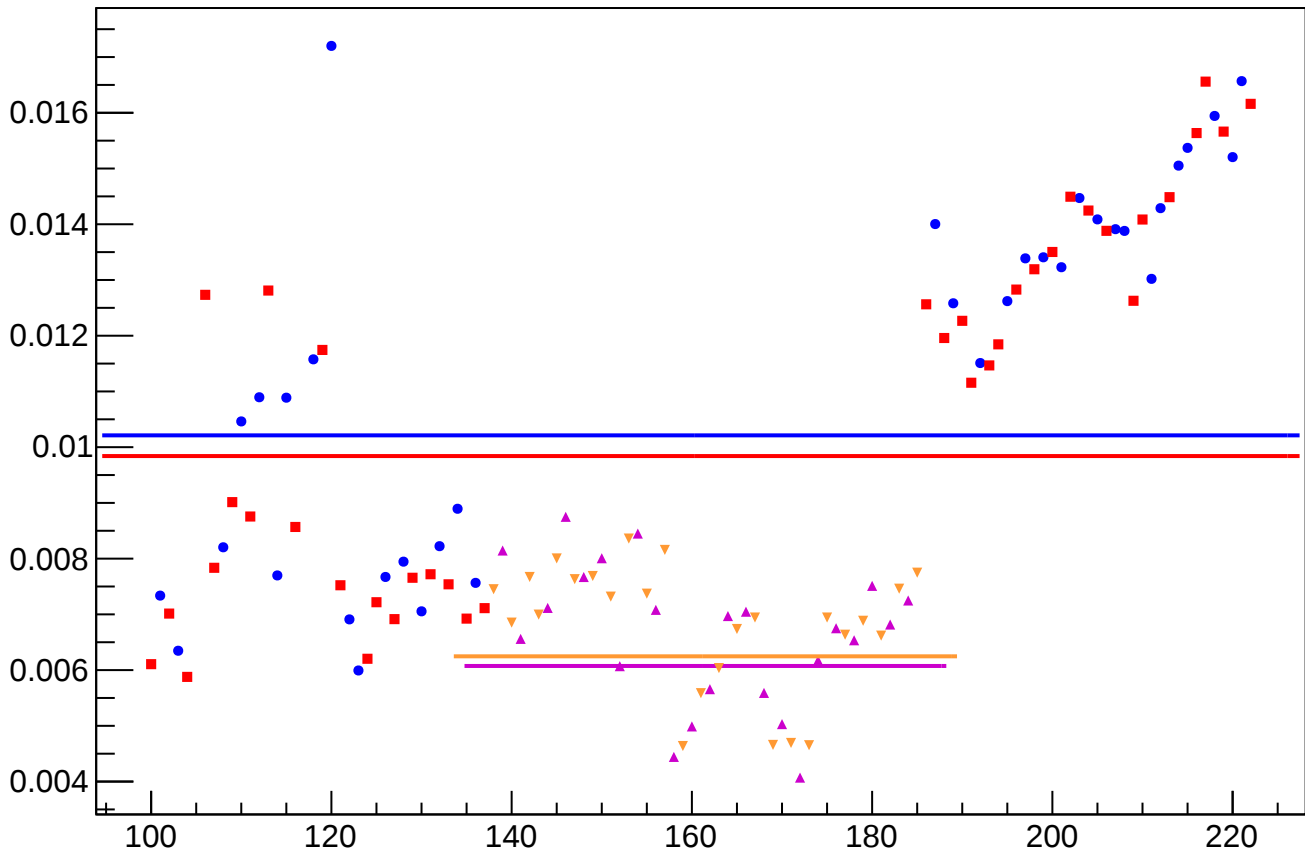
Left In: 1.373 ± 0.000 $\chi^2/\text{NDF}: 63413151416.3/22$

+ sign 0.985 ± 0.000 $\chi^2/\text{NDF}: 405146226979.0/59$

All: 0.977 ± 0.000 $\chi^2/\text{NDF}: 820831388047.4$

- sign 0.969 ± 0.000 $\chi^2/\text{NDF}: 415607507673.8/60$

yield_bpm0l02Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2/NDF : 3369248.6/34

Left Out: 0.006 $\pm$ 0.000 χ^2/NDF :1330867.5/24

Right Out: 0.010 $\pm$ 0.000 χ^2/NDF : 3685678.8/37

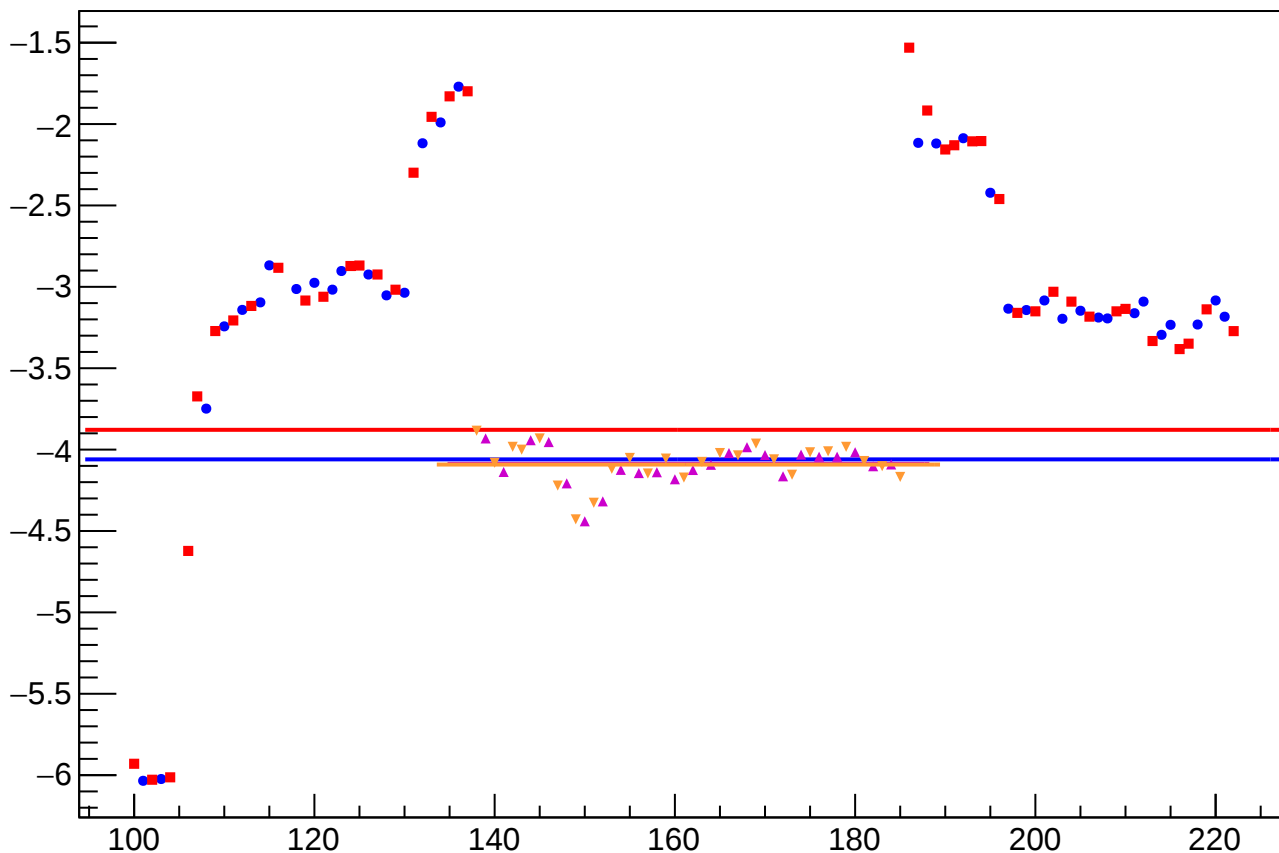
Left In: 0.006 $\pm$ 0.000 χ^2/NDF :1431986.5/22

+ sign 0.007 $\pm$ 0.000 χ^2/NDF : 8350096.5/59

All: 0.007 $\pm$ 0.000 χ^2/NDF : 17053191.9/120

- sign 0.007 $\pm$ 0.000 χ^2/NDF : 8690815.9/60

yield_bpm0l03X_mean vs Slug



Right In: -4.060 ± 0.000 χ^2/NDF : 293623486125.4/34

Left Out: -4.092 ± 0.000 χ^2/NDF : 39806766.7/24

+ sign -4.061 ± 0.000 χ^2/NDF : 293666202827.9/59

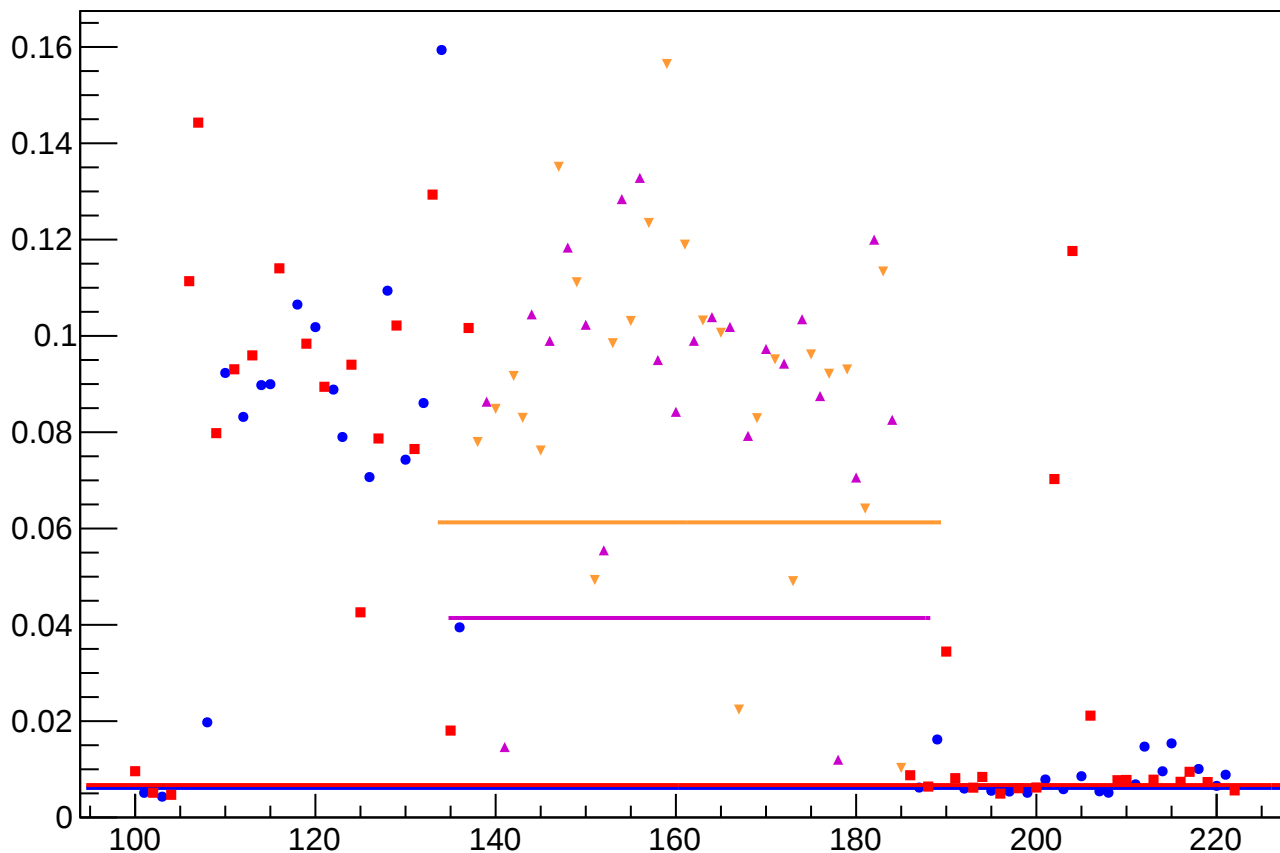
Right Out: -3.878 ± 0.000 χ^2/NDF : 283083967693.9/37

All: -3.981 ± 0.000 χ^2/NDF : 578776298009.0

Left In: -4.088 ± 0.000 χ^2/NDF : 34412880.7/22

- sign -3.887 ± 0.000 χ^2/NDF : 283297915915.9/60

yield_bpm0l03X_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 8448566.2/34

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 10432044.0/37

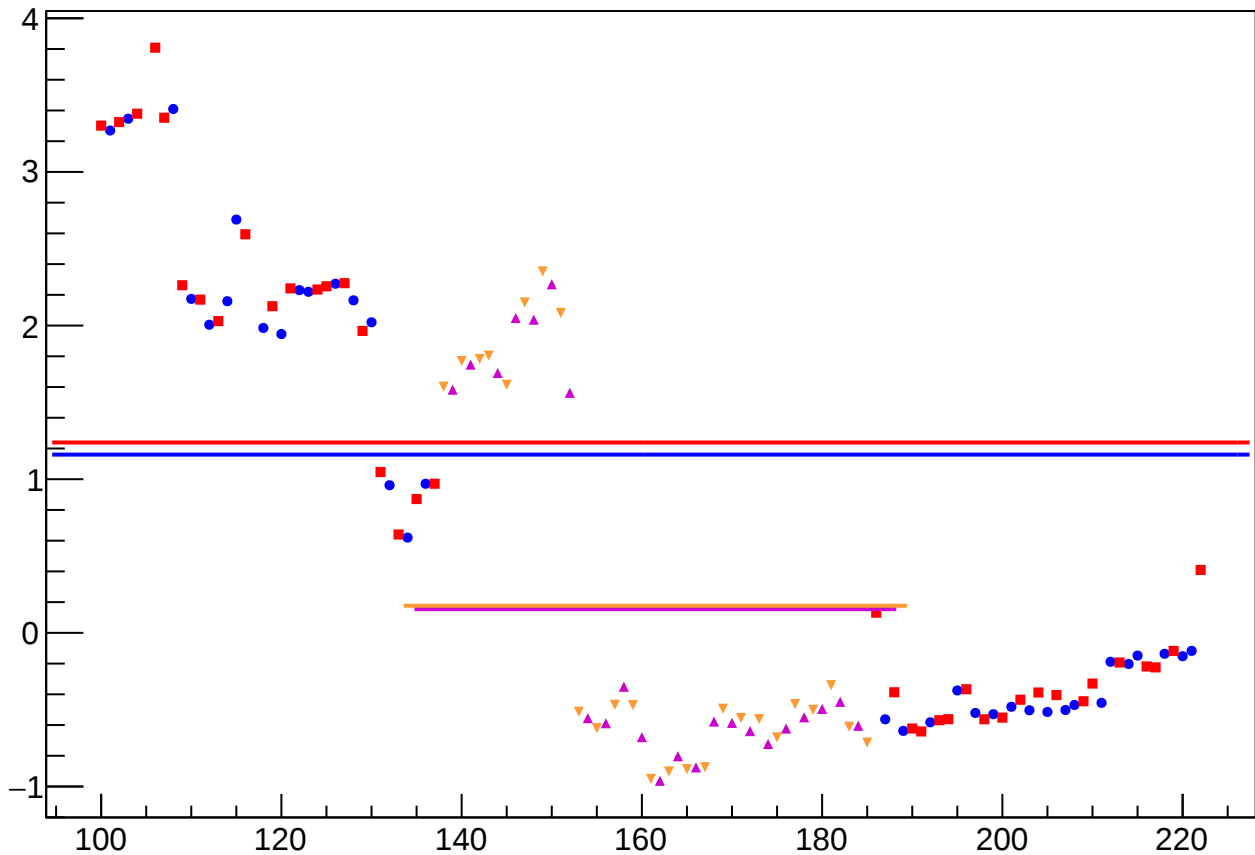
Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 34355602.5/59

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 67841307.4/120

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 33428544.6/60

yield_bpm0l03Y_mean vs Slug



Right In: 1.160 $\pm$ 0.000 χ^2 /NDF: 227440693019.9/34

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF:3275313367.7/24

Right Out: 1.239 $\pm$ 0.000 χ^2 /NDF: 202317428397.7/37

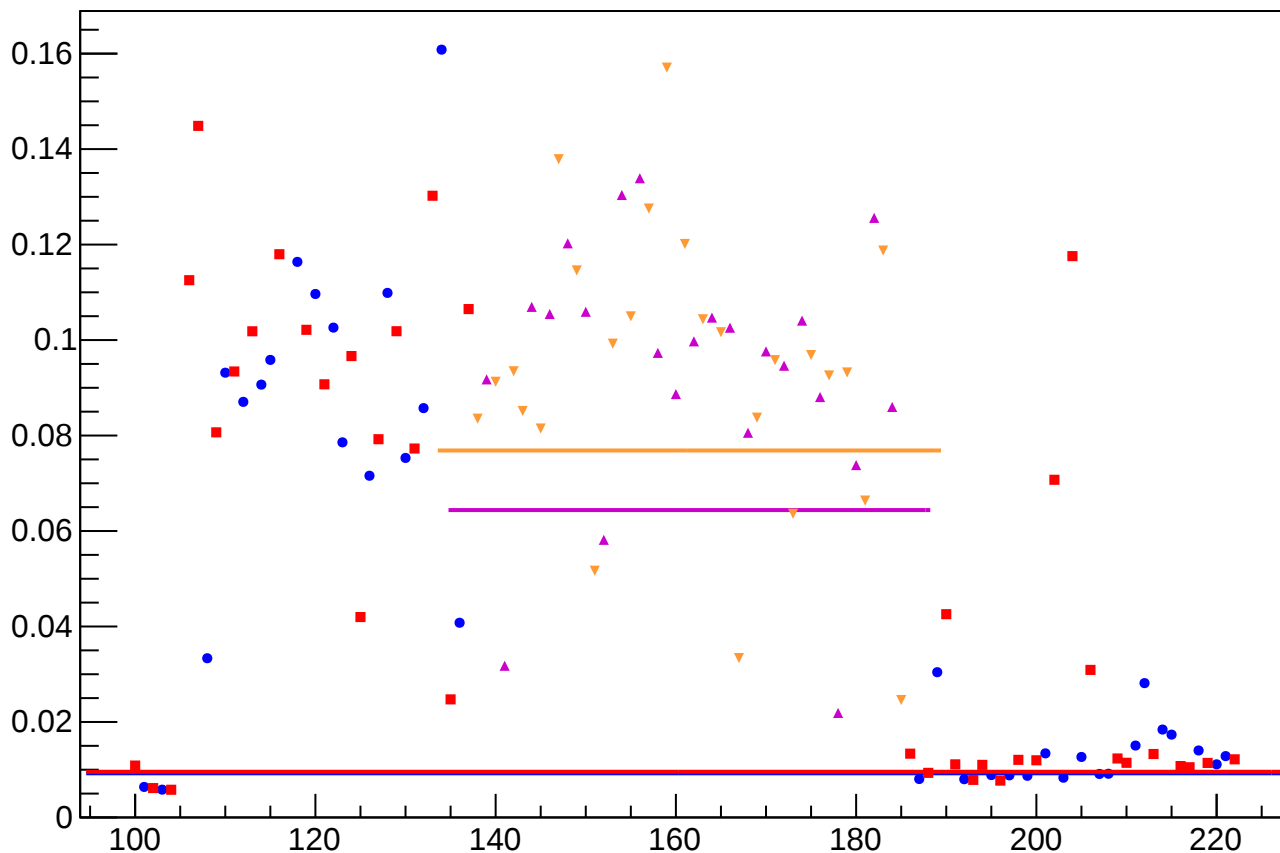
Left In: 0.154 $\pm$ 0.000 χ^2 /NDF:3163553595.0/22

+ sign 1.128 $\pm$ 0.000 χ^2 /NDF: 232836795263.5/59

All: 1.160 $\pm$ 0.000 χ^2 /NDF: 441379313163.0

- sign 1.195 $\pm$ 0.000 χ^2 /NDF: 208392910101.2/60

yield_bpm0l03Y_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8676554.7/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 10438282.8/37

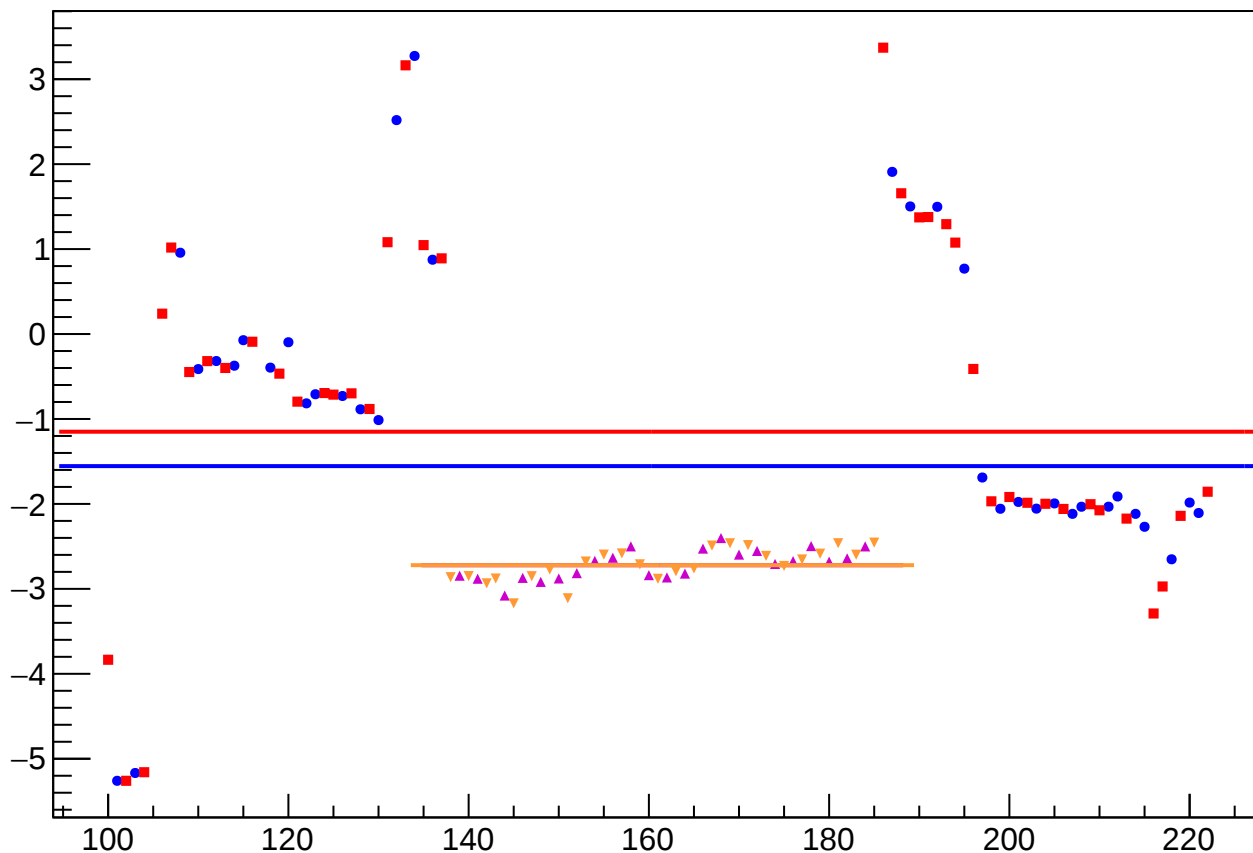
Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 32941117.1/59

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65246639.5/120

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 32298951.4/60

yield_bpm0l04X_mean vs Slug



Right In: -1.555+/-0.000 χ^2/NDF : 210448700099.6/34

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.150+/-0.000 χ^2/NDF : 252164159092.3/37

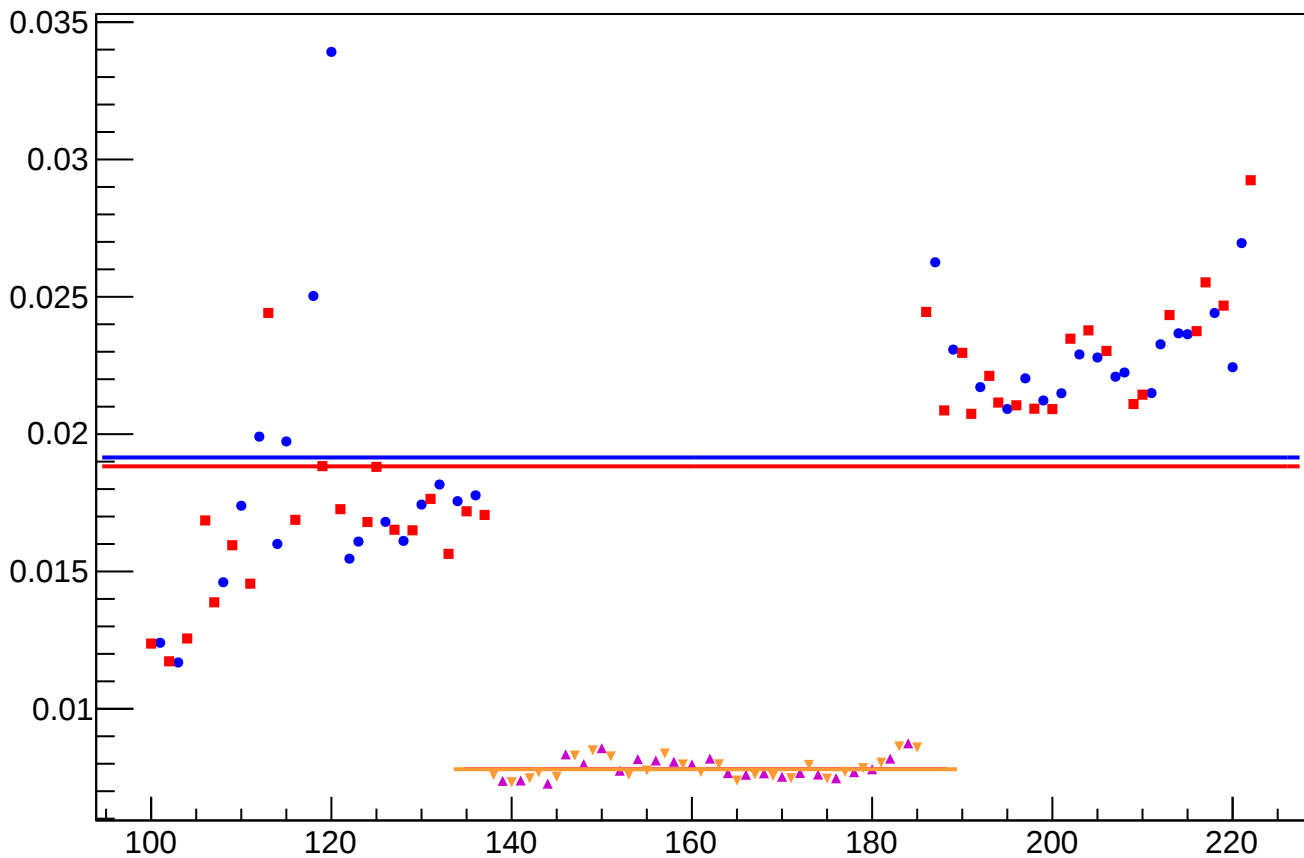
Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

+ sign -2.558+/-0.000 χ^2/NDF : 276079659249.5/59

All: -2.517+/-0.000 χ^2/NDF : 644101719650.2

- sign -2.474+/-0.000 χ^2/NDF : 366849476253.9/60

yield_bpm0l04X_rms vs Slug



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 1753907.4/34

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 71164.4/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 1872303.0/37

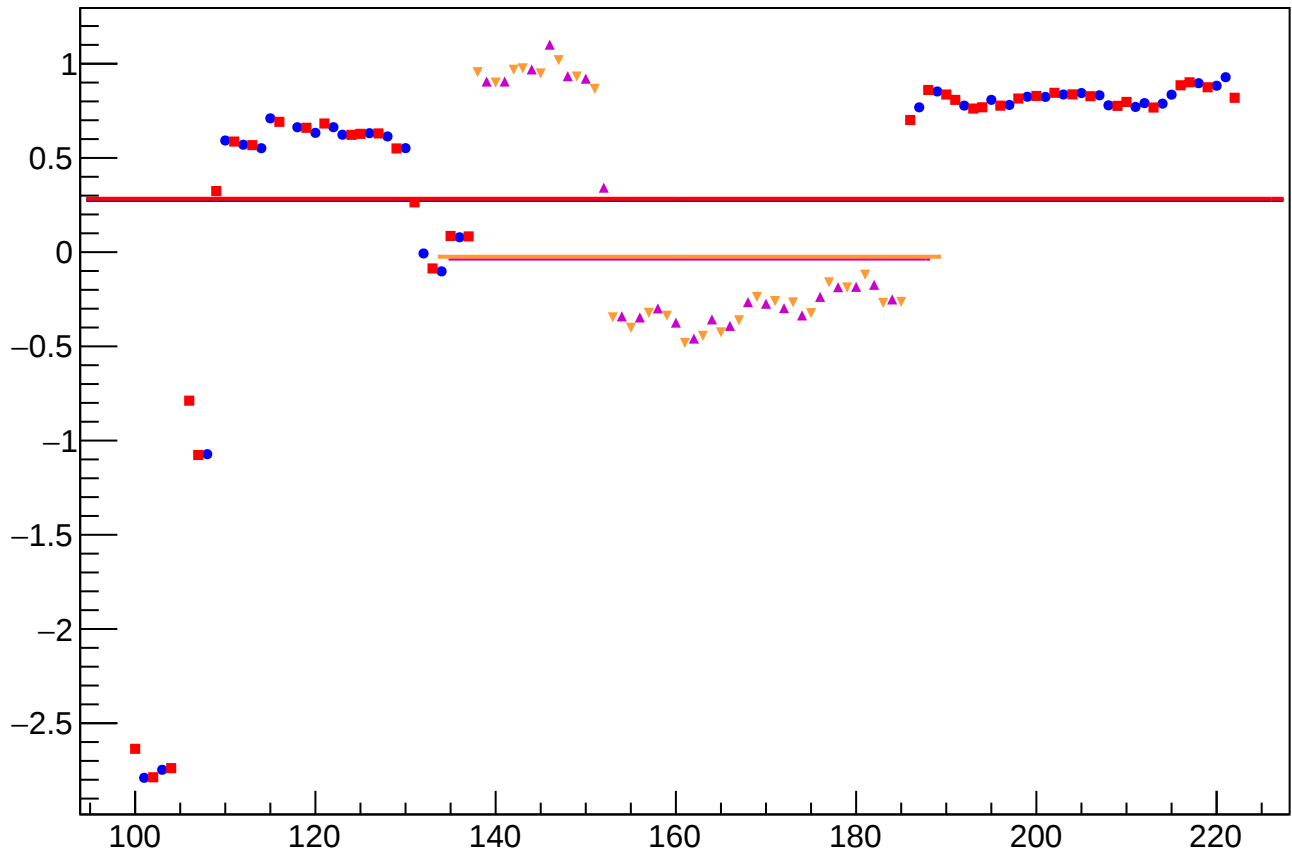
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 67610.2/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 12288567.0/59

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 24702275.3/120

- sign 0.010 $\pm$ 0.000 χ^2 /NDF: 12405081.7/60

yield_bpm0l04Y_mean vs Slug



Right In: 0.277 $\pm$ 0.000 χ^2 /NDF: 919754748098.6/34

Left Out: -0.024 $\pm$ 0.000 χ^2 /NDF: 135451649275.0/24

Right Out: 0.283 $\pm$ 0.000 χ^2 /NDF: 976898786533.1/37

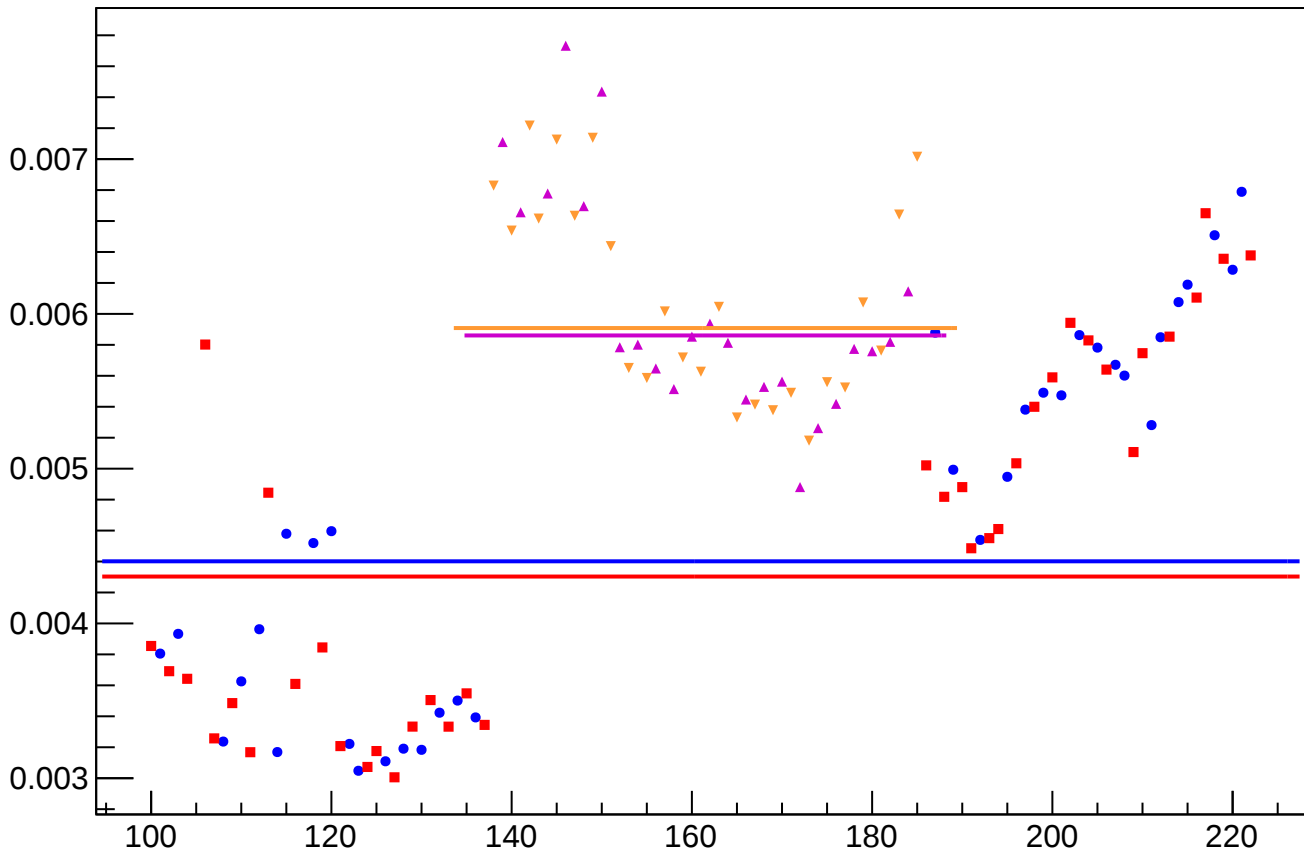
Left In: -0.034 $\pm$ 0.000 χ^2 /NDF: 113929060918.1/22

+ sign 0.172 $\pm$ 0.000 χ^2 /NDF: 1083785267790.5/59

All: 0.177 $\pm$ 0.000 χ^2 /NDF: 2206629810899.6

- sign 0.182 $\pm$ 0.000 χ^2 /NDF: 1122781297186.2/60

yield_bpm0l04Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 2278227.9/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 2356790.2/37

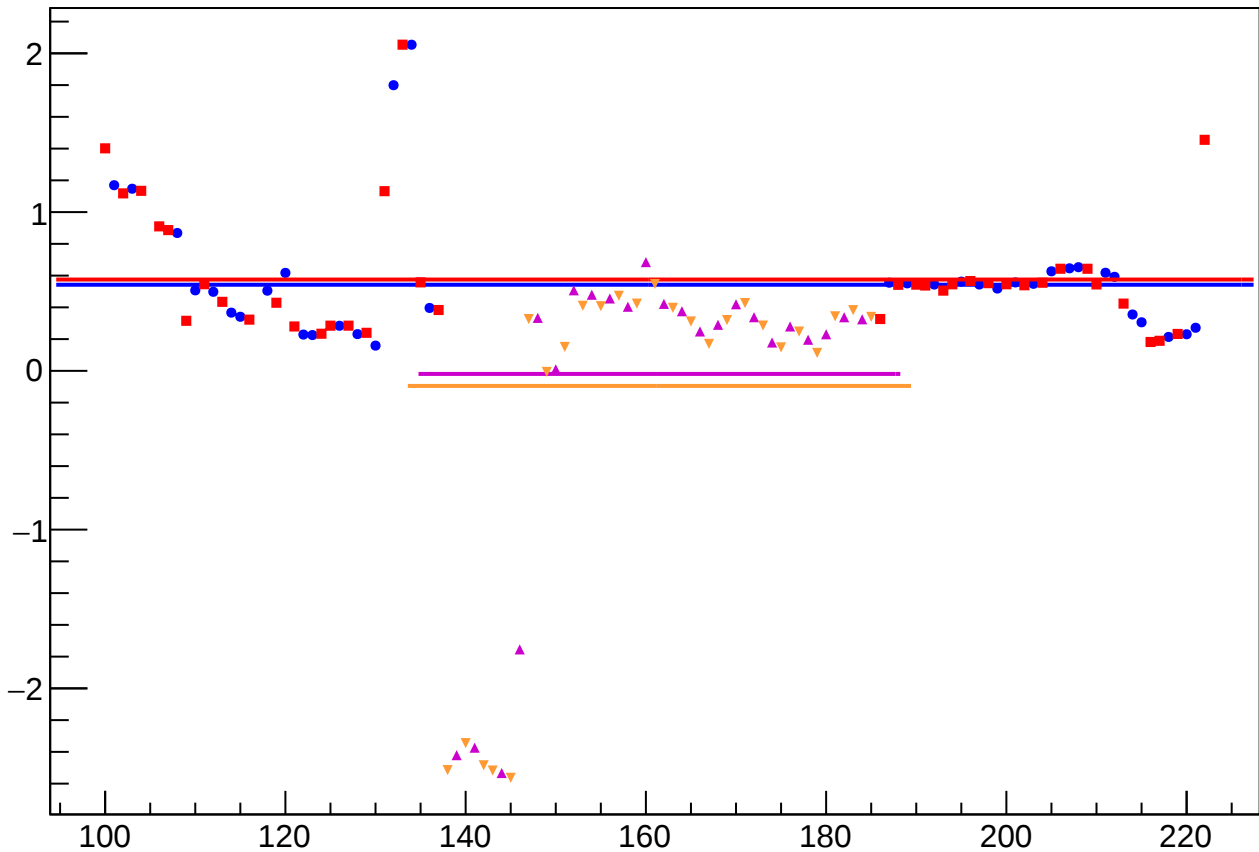
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:364512.1/22

+ sign 0.005 $\pm$ 0.000 χ^2 /NDF: 4023156.1/59

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 8304367.8/120

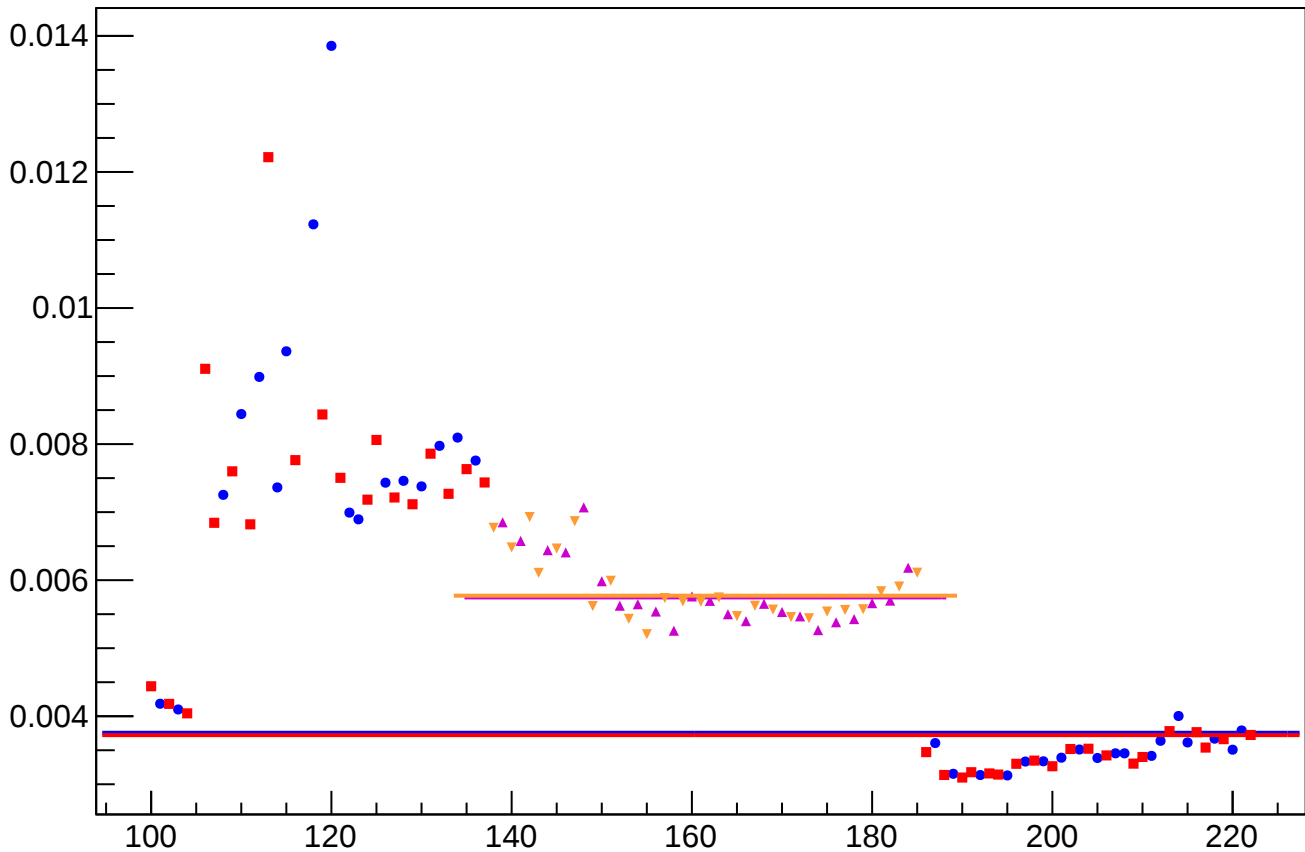
- sign 0.005 $\pm$ 0.000 χ^2 /NDF: 4259082.1/60

yield_bpm0l05X_mean vs Slug



Right In: 0.542 ± 0.000	χ^2/NDF : 64372816902.1/34	+ sign 0.348 ± 0.000	χ^2/NDF : 715575908270.4/59
Left Out: -0.095 ± 0.000	χ^2/NDF : 505606573631.9/24	All: 0.379 ± 0.000	χ^2/NDF : 1375697029041.1
Right Out: 0.575 ± 0.000	χ^2/NDF : 114245598365.4/37	- sign 0.409 ± 0.000	χ^2/NDF : 656964382854.1/60
Left In: -0.019 ± 0.000	χ^2/NDF : 417104863944.5/22		

yield_bpm0l05X_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 3161992.7/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:177680.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 3198606.3/37

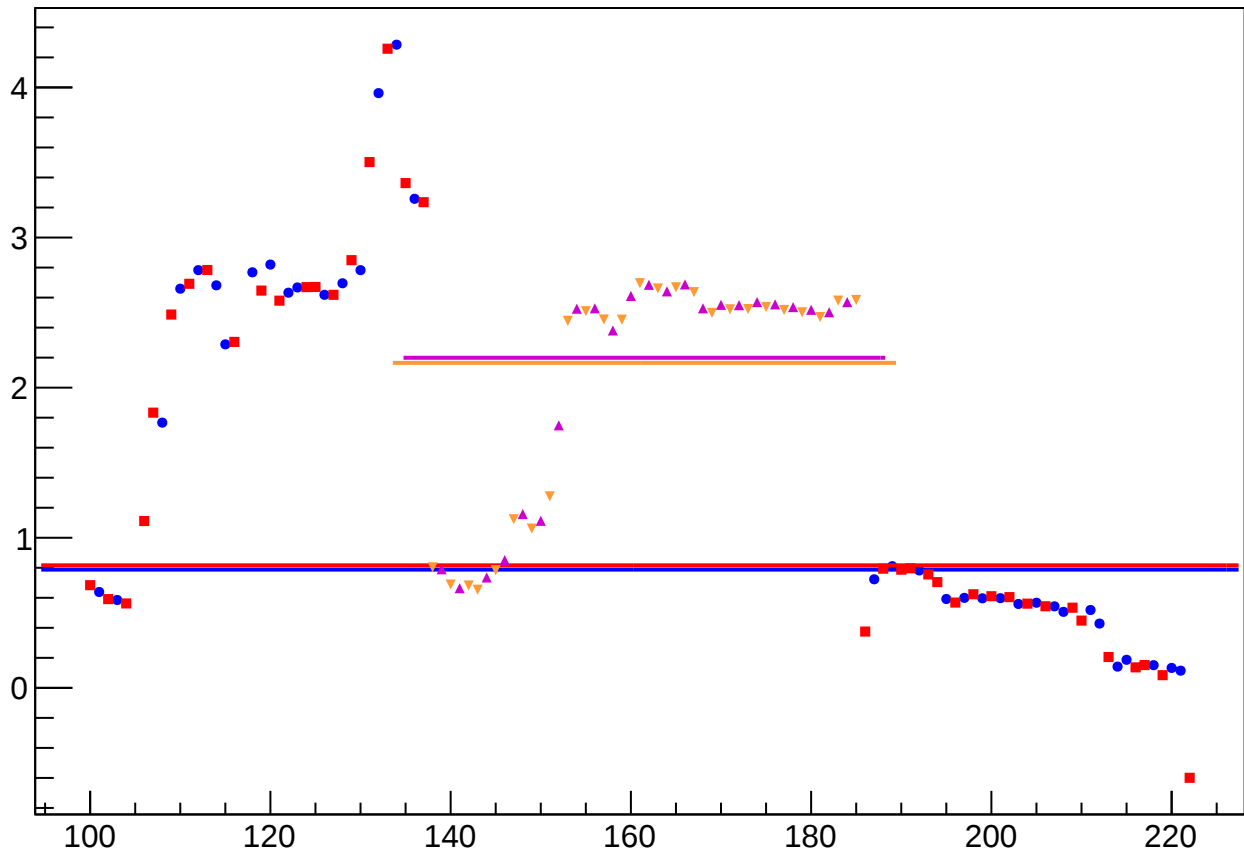
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:204066.4/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6249483.2/59

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 12575859.3/120

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6314799.4/60

yield_bpm0l05Y_mean vs Slug



Right In: 0.788 $\pm$ 0.000 χ^2 /NDF: 352614510426.8/34

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 0.816 $\pm$ 0.000 χ^2 /NDF: 421717853017.6/37

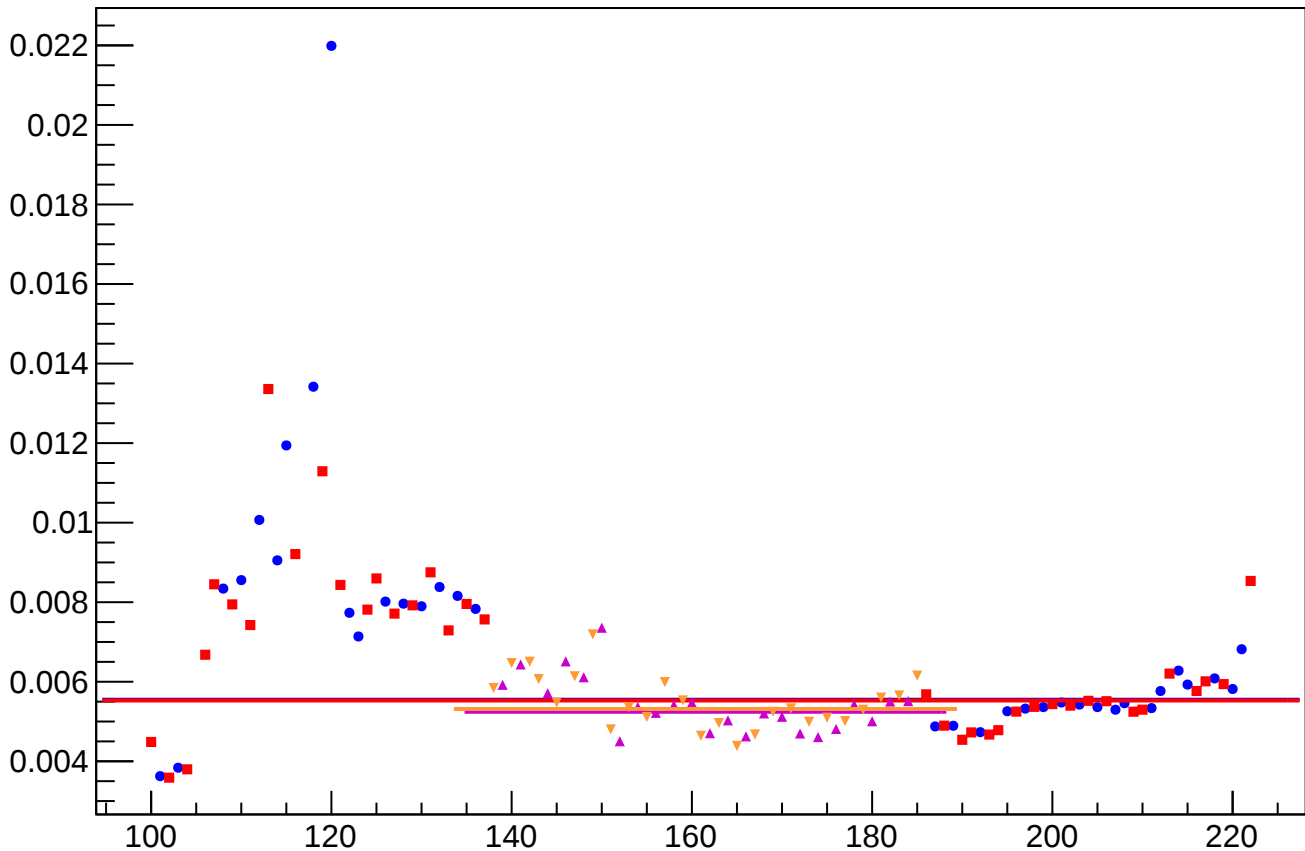
Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

+ sign 1.496 $\pm$ 0.000 χ^2 /NDF: 1186409214357.2/59

All: 1.497 $\pm$ 0.000 χ^2 /NDF: 2416197132604.

- sign 1.498 $\pm$ 0.000 χ^2 /NDF: 1229786018423.3/60

yield_bpm0l05Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 2093464.2/34

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2126044.1/37

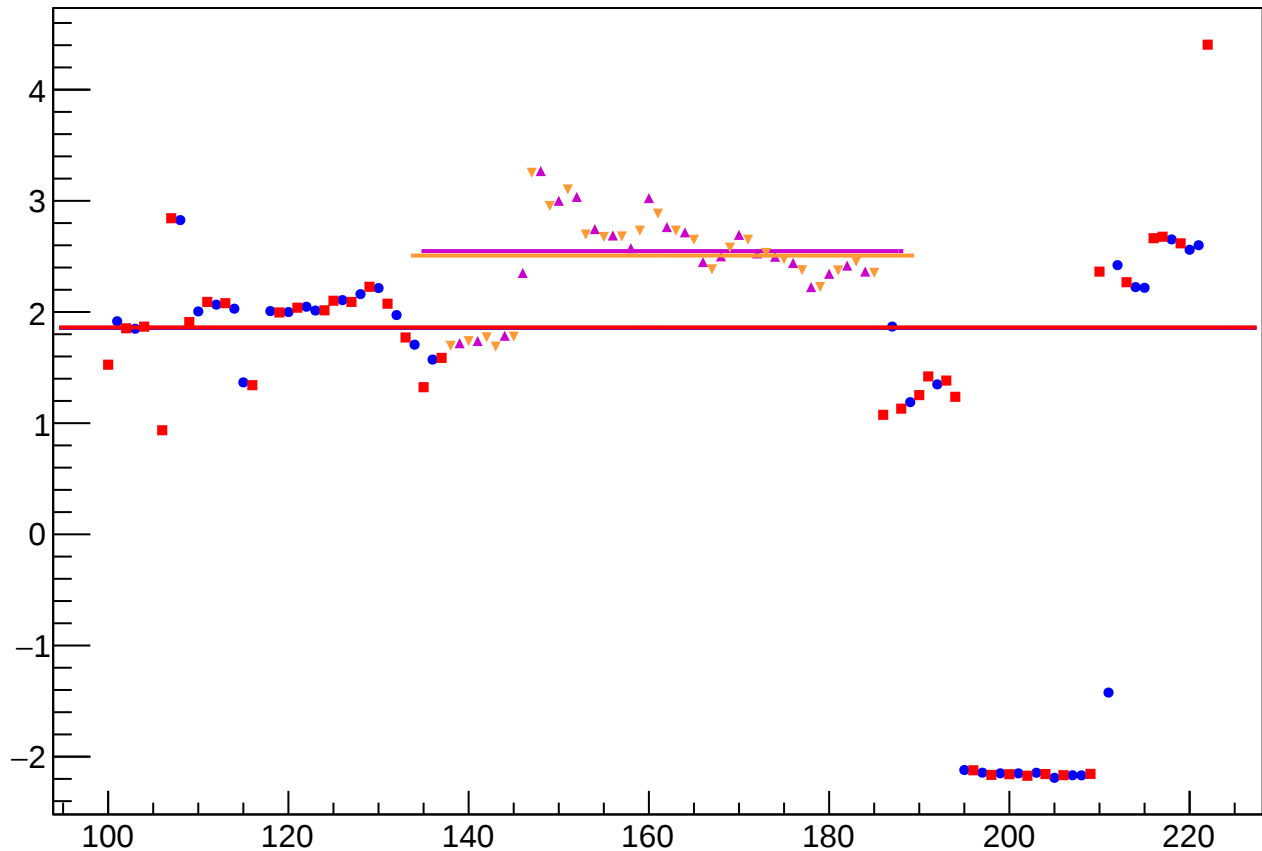
Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

+ sign 0.005+/-0.000 χ^2/NDF : 2523083.7/59

All: 0.005+/-0.000 χ^2/NDF : 5123276.9/120

- sign 0.005+/-0.000 χ^2/NDF : 2598439.5/60

yield_bpm0l06X_mean vs Slug



Right In: 1.857+/-0.000 χ^2/NDF : 174548622955.2/34

Left Out: 2.508+/-0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.861+/-0.000 χ^2/NDF : 198029398874.3/37

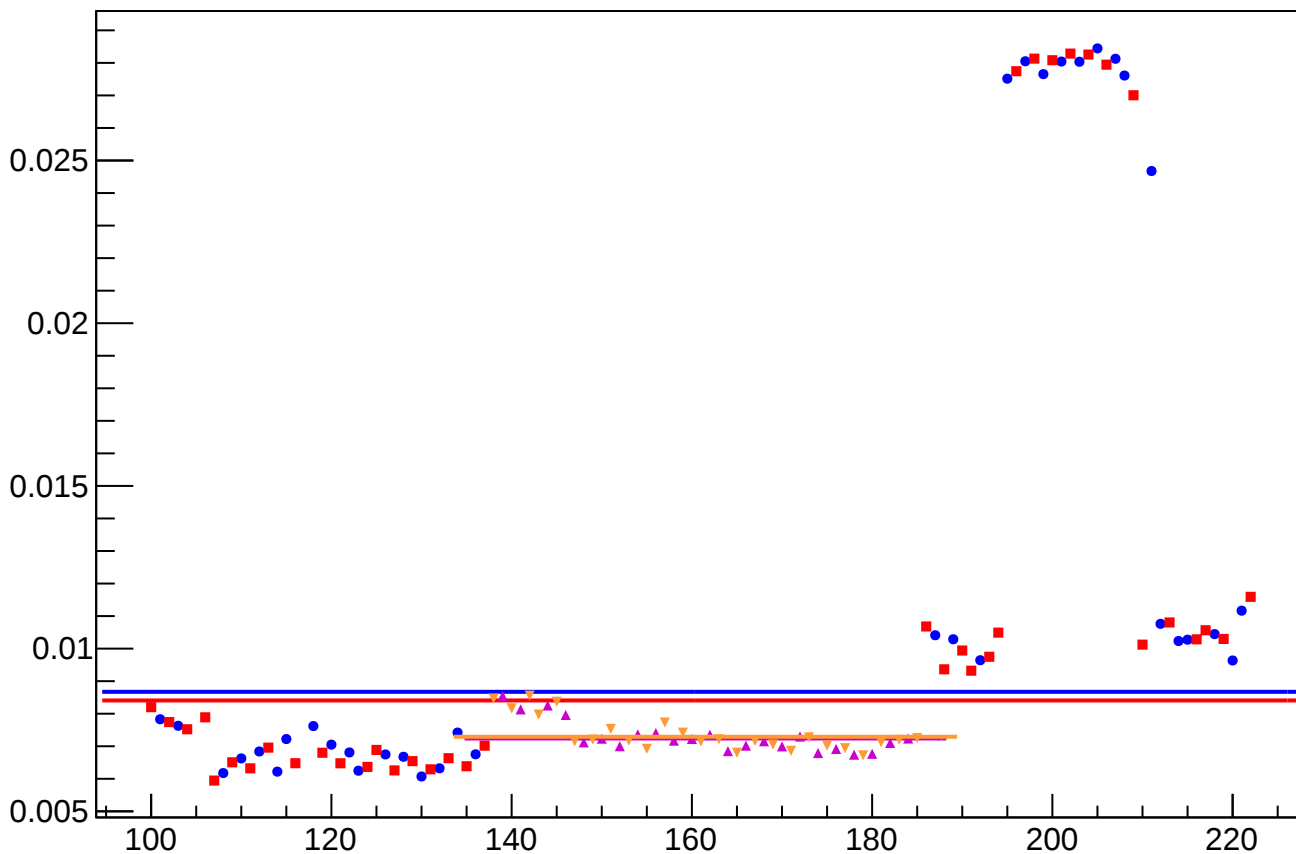
Left In: 2.548+/-0.000 χ^2/NDF : 45350336058.7/22

+ sign 2.263+/-0.000 χ^2/NDF : 279248312496.3/59

All: 2.261+/-0.000 χ^2/NDF : 585395208800.6

- sign 2.259+/-0.000 χ^2/NDF : 306143675341.8/60

yield_bpm0l06X_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 7782287.8/34

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6702969.9/37

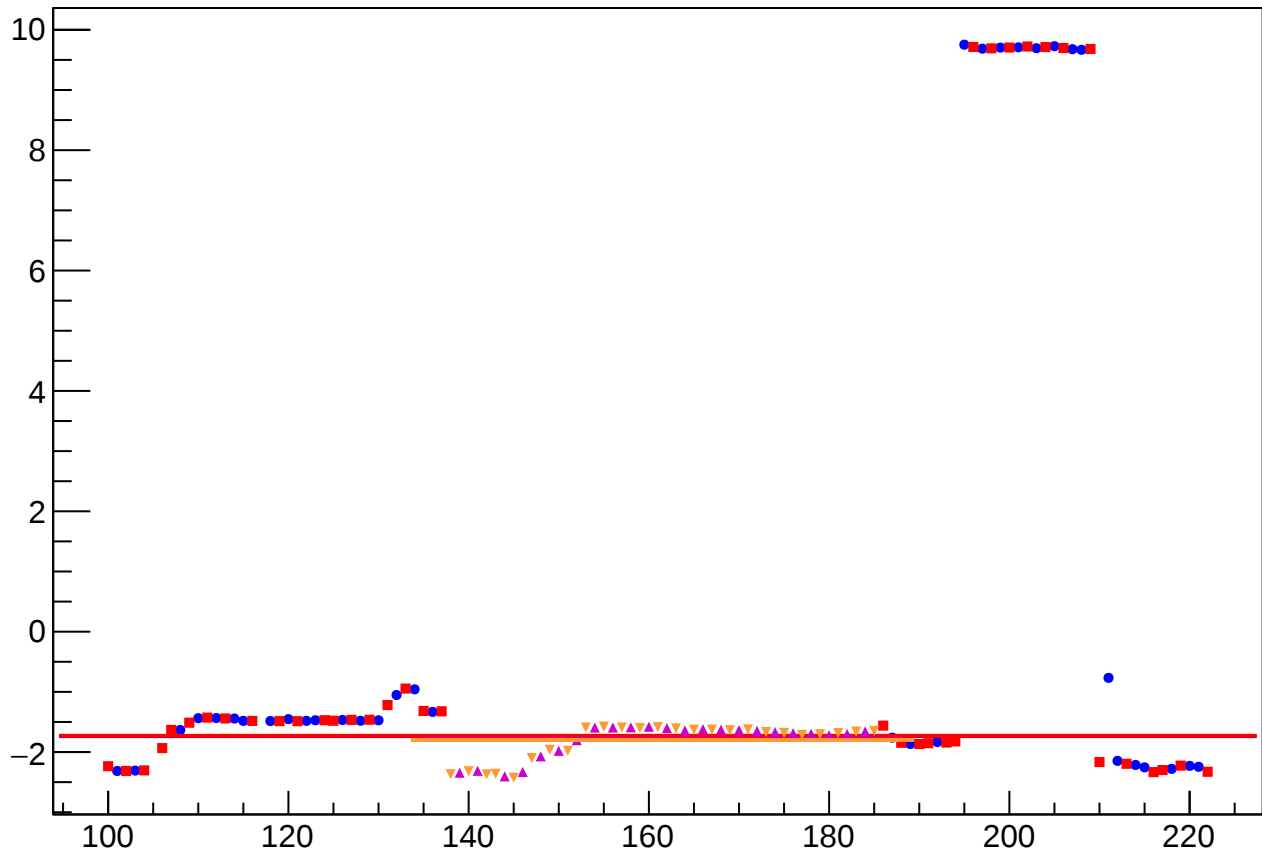
Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:125233.2/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 8394755.3/59

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 15590703.9/120

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 7192320.7/60

yield_bpm0l06Y_mean vs Slug



Right In: -1.735+/-0.000 χ^2/NDF : 436928457069.1/34

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.730+/-0.000 χ^2/NDF : 425665209454.7/37

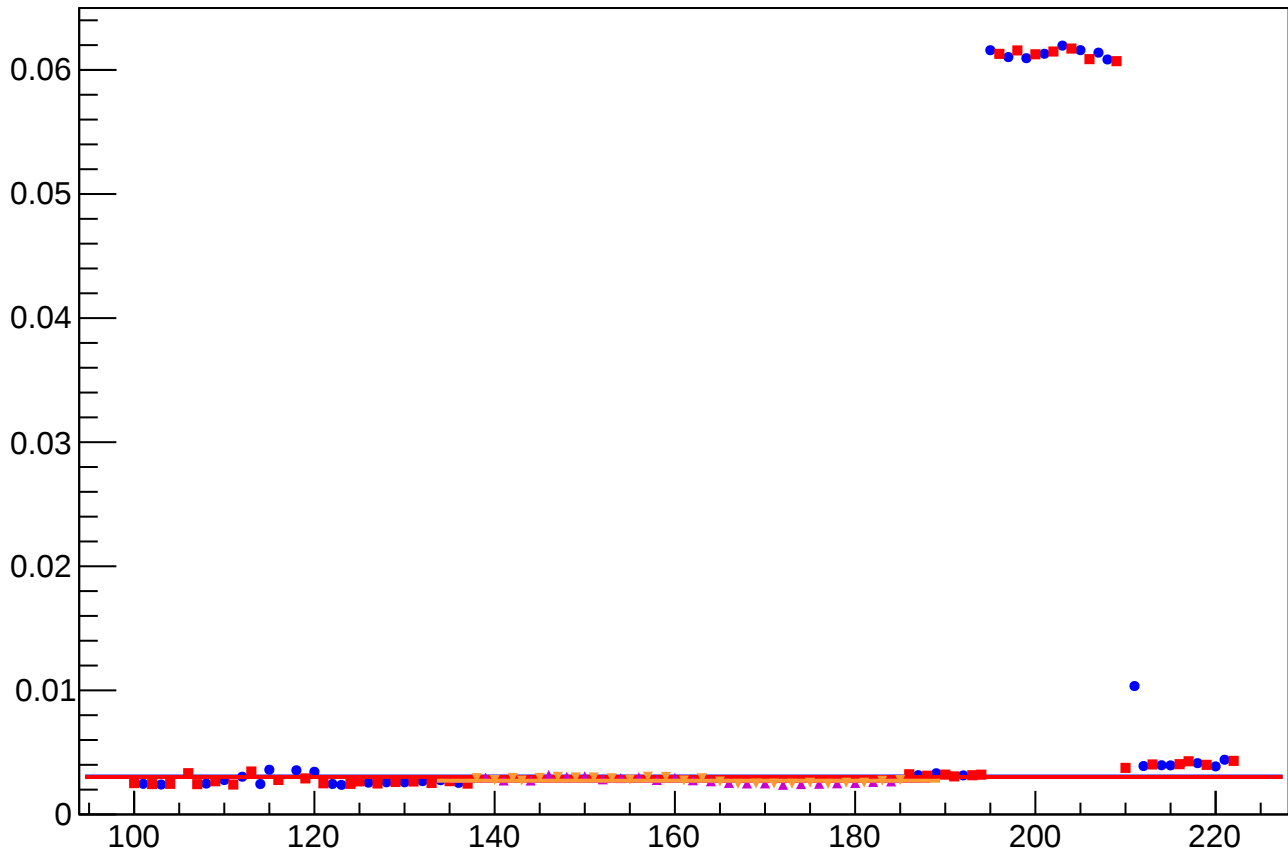
Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

+ sign -1.776+/-0.000 χ^2/NDF : 625744131121.4/59

All: -1.771+/-0.000 χ^2/NDF : 1214546513833

- sign -1.766+/-0.000 χ^2/NDF : 588607017022.9/60

yield_bpm0l06Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 12337218.7/34

Left Out: 0.003+/-0.000 χ^2/NDF : 199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10625084.6/37

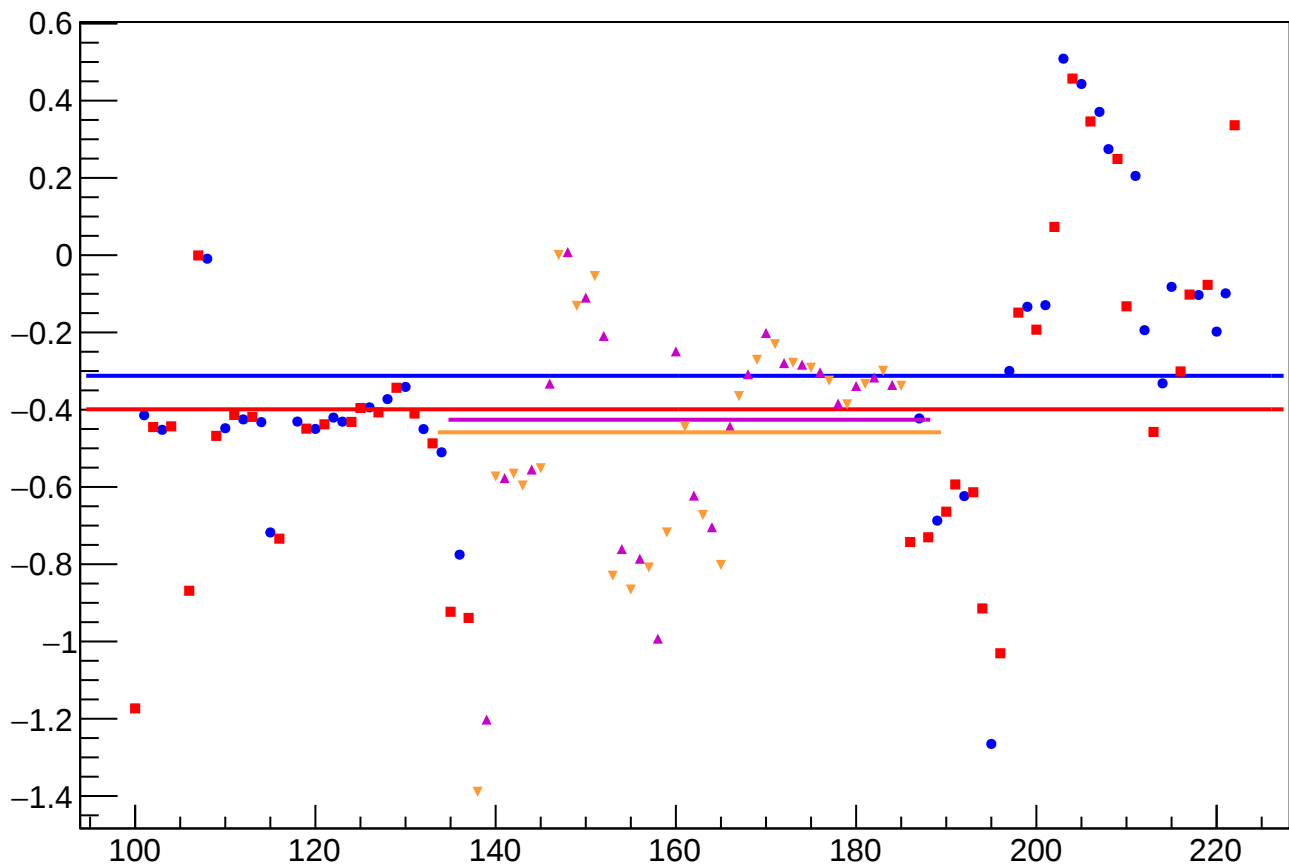
Left In: 0.003+/-0.000 χ^2/NDF : 220327.9/22

+ sign 0.003+/-0.000 χ^2/NDF : 12727167.6/59

All: 0.003+/-0.000 χ^2/NDF : 23756330.3/120

- sign 0.003+/-0.000 χ^2/NDF : 11028873.8/60

yield_bpm0l07X_mean vs Slug



Right In: -0.312 ± 0.000 $\chi^2/\text{NDF}: 11105560165.1/34$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.399 ± 0.000 $\chi^2/\text{NDF}: 11558478167.9/37$

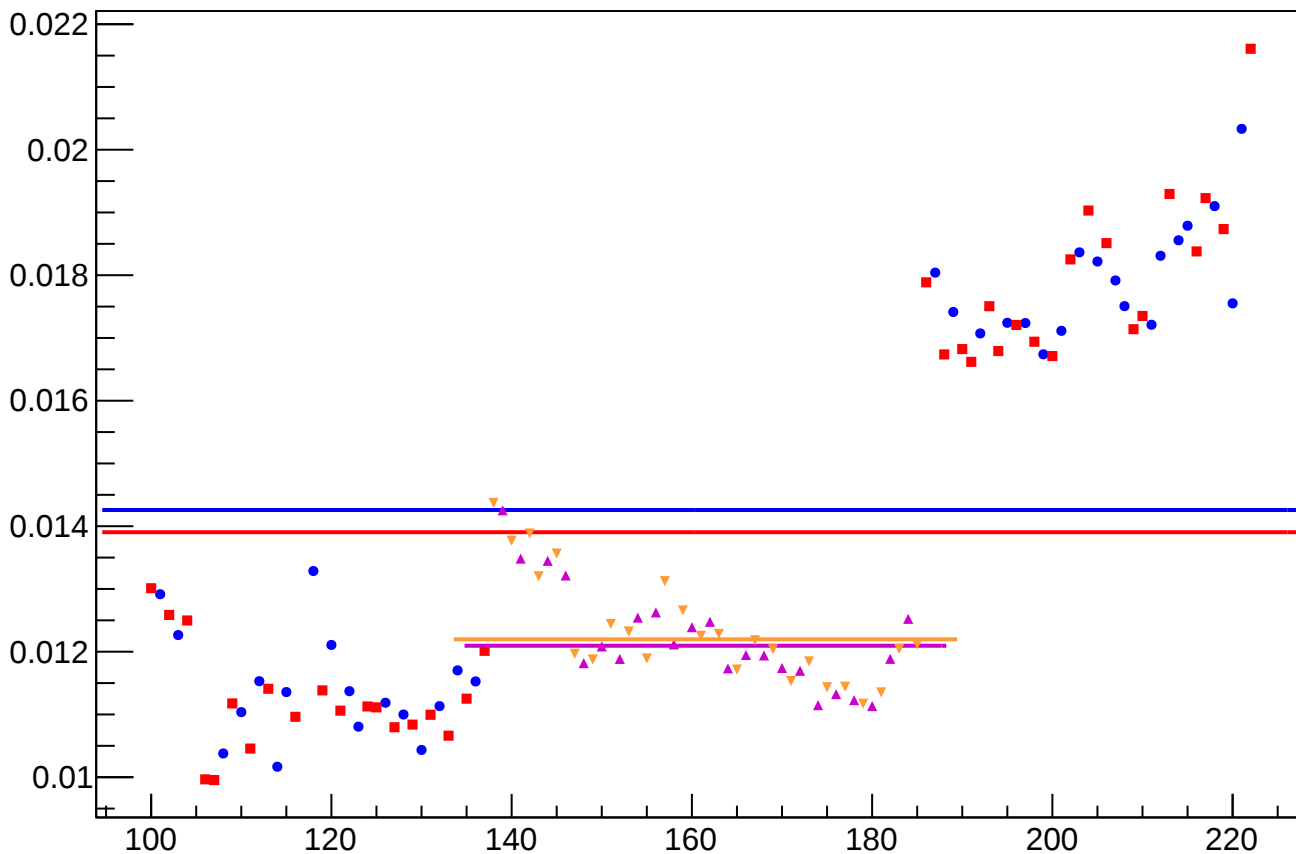
Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

+ sign -0.396 ± 0.000 $\chi^2/\text{NDF}: 22101596900.9/59$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 42154420045.2/100$

- sign -0.414 ± 0.000 $\chi^2/\text{NDF}: 20020691561.1/60$

yield_bpm0l07X_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1849351.7/34

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2284363.4/37

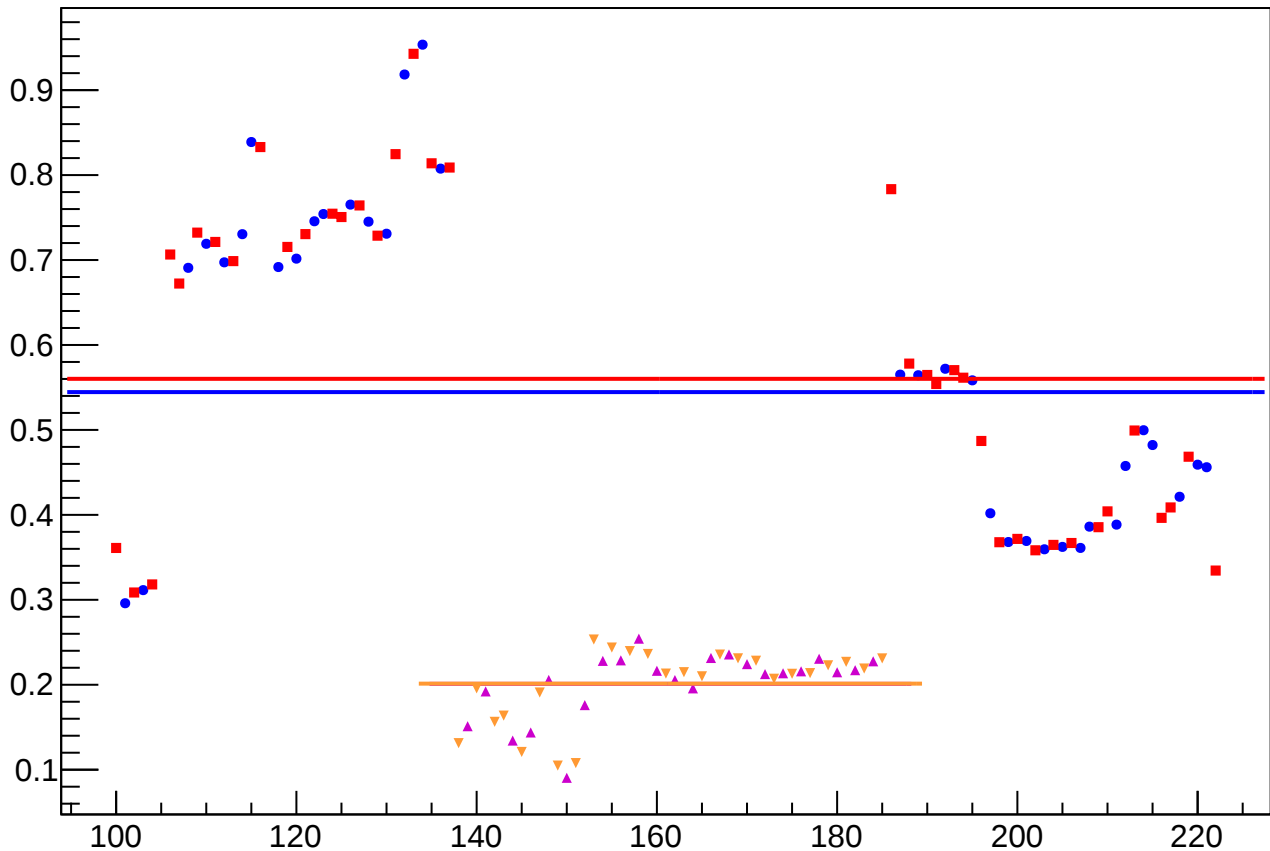
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2420125.2/59

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5177633.1/120

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2752670.2/60

yield_bpm0l07Y_mean vs Slug



Right In: 0.545 $\pm$ 0.000 χ^2 /NDF: 78474145032.6/34

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

+ sign 0.326 $\pm$ 0.000 χ^2 /NDF: 259200216343.2/59

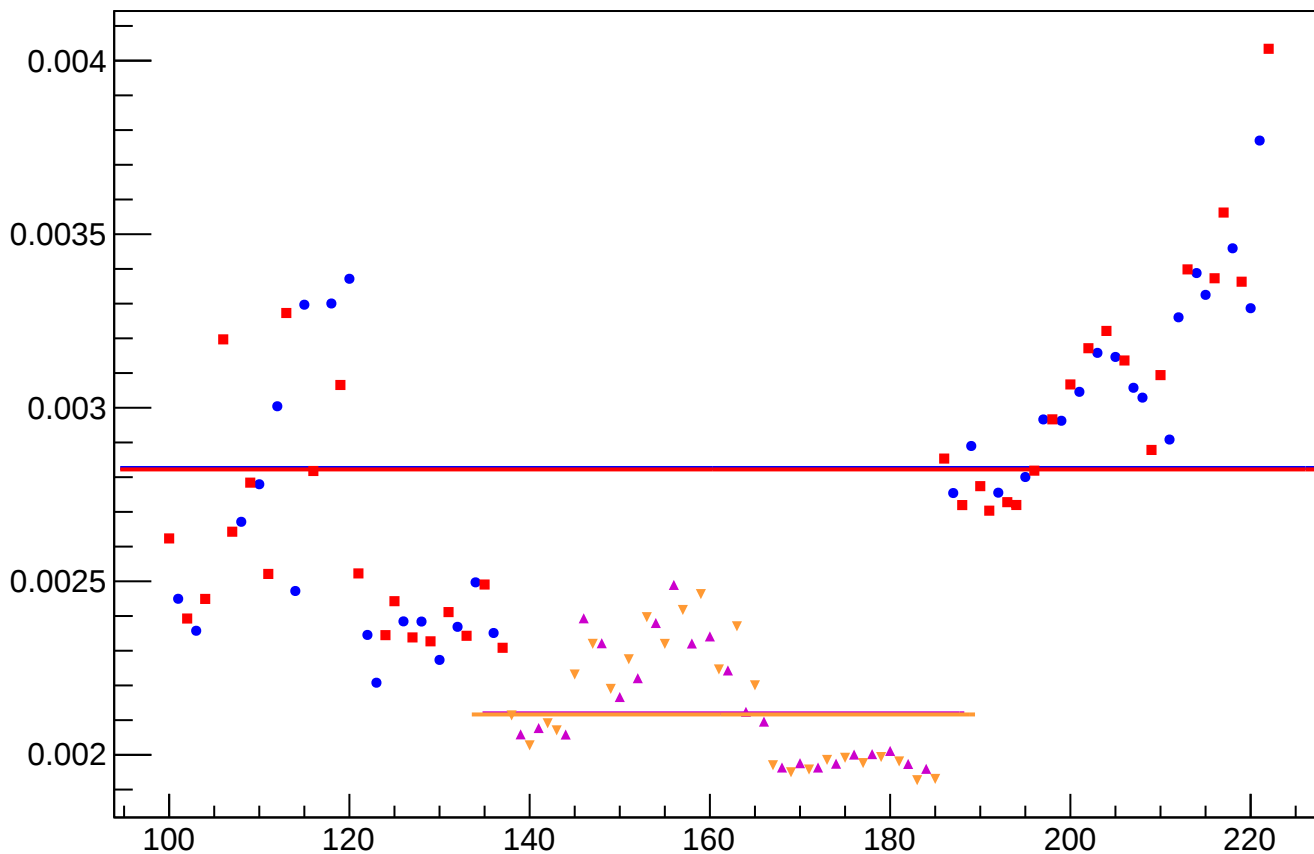
Right Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 80202559847.0/37

All: 0.333 $\pm$ 0.000 χ^2 /NDF: 536537635587.2

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

- sign 0.340 $\pm$ 0.000 χ^2 /NDF: 276701065335.6/60

yield_bpm0l07Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 678493.5/34

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 708870.6/37

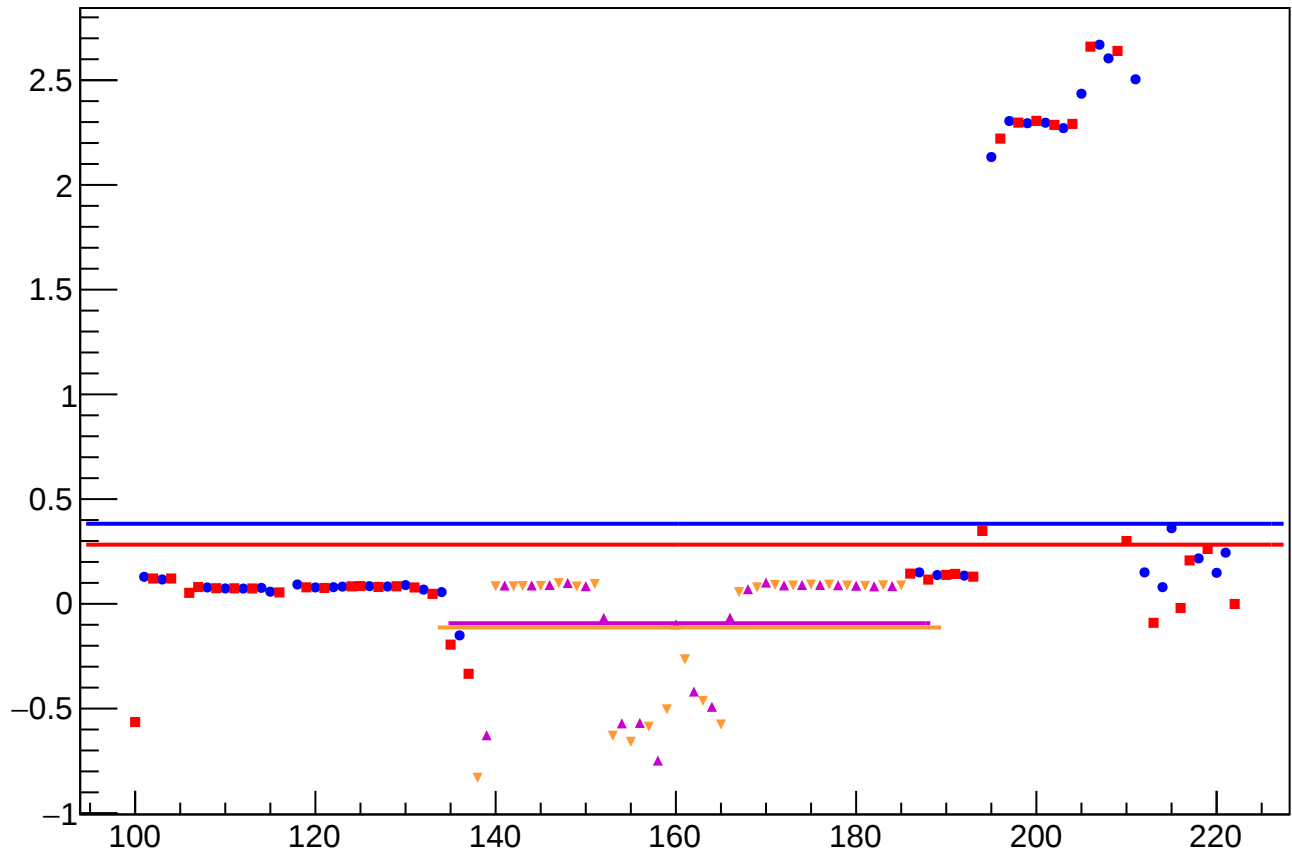
Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

+ sign 0.002+/-0.000 χ^2/NDF : 2389422.0/59

All: 0.002+/-0.000 χ^2/NDF : 4750149.2/120

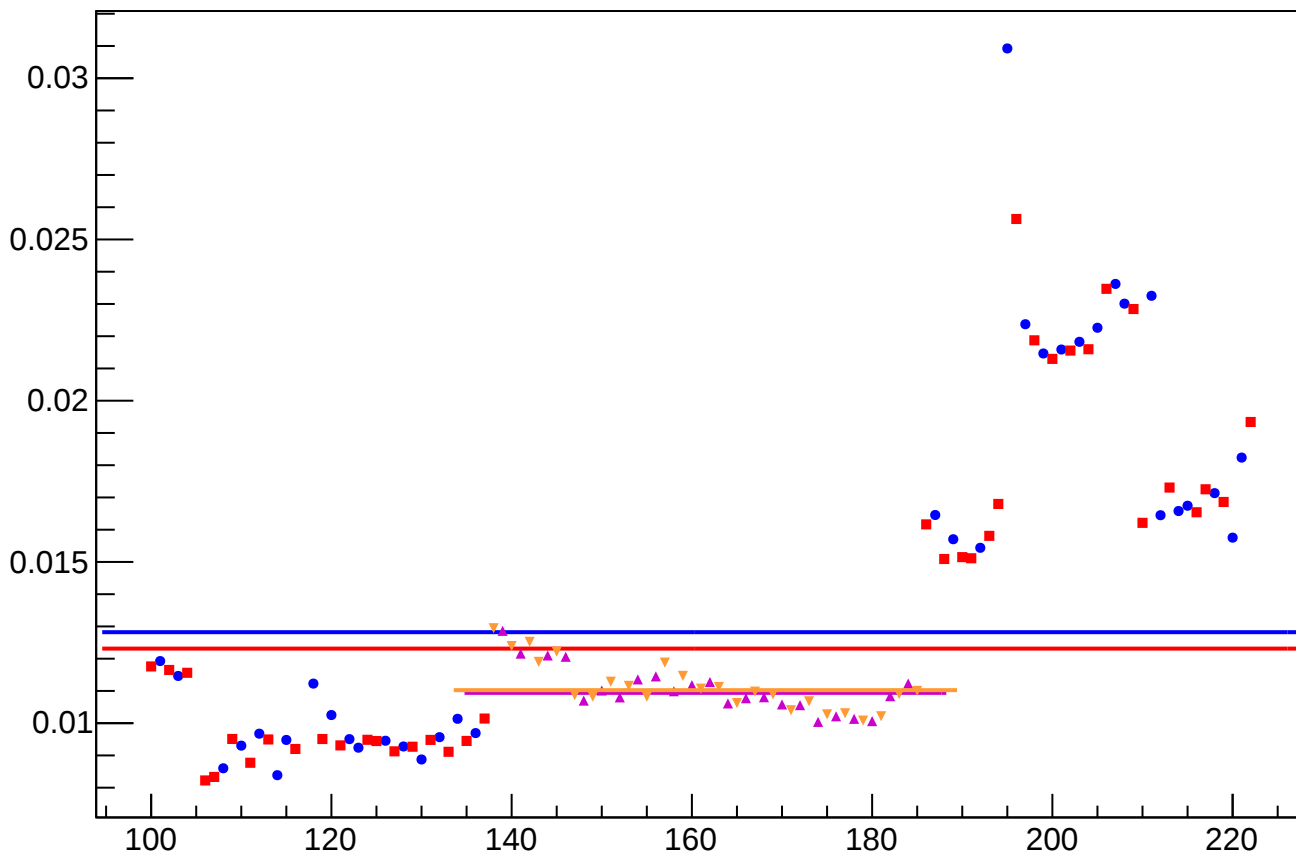
- sign 0.002+/-0.000 χ^2/NDF : 2358761.2/60

yield_bpm0l08X_mean vs Slug



Right In: 0.382+/-0.000	χ^2/NDF : 61657552514.9/34	+ sign 0.091+/-0.000	χ^2/NDF : 89906876553.6/59
Left Out: -0.113+/-0.000	χ^2/NDF : 13667354077.1/24	All: 0.084+/-0.000	χ^2/NDF : 162436861993.8
Right Out: 0.283+/-0.000	χ^2/NDF : 52592038881.3/37	- sign 0.078+/-0.000	χ^2/NDF : 72508978265.6/60
Left In: -0.093+/-0.000	χ^2/NDF : 11051944893.7/22		

yield_bpm0l08X_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 4705069.9/34

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 141501.7/24

Right Out: 0.012 $\pm$ 0.000 χ^2/NDF : 4612233.8/37

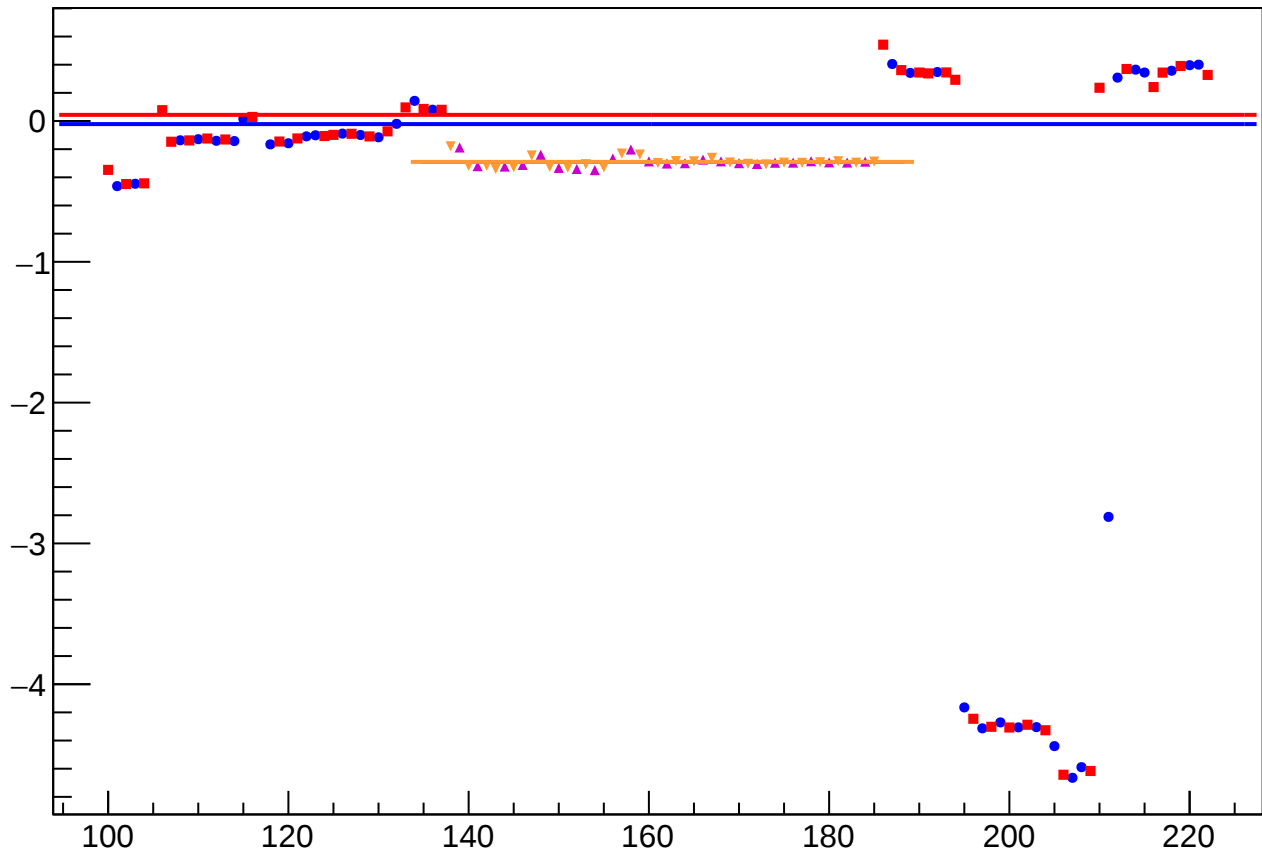
Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 128914.2/22

+ sign 0.012 $\pm$ 0.000 χ^2/NDF : 5231292.3/59

All: 0.012 $\pm$ 0.000 χ^2/NDF : 10219557.8/120

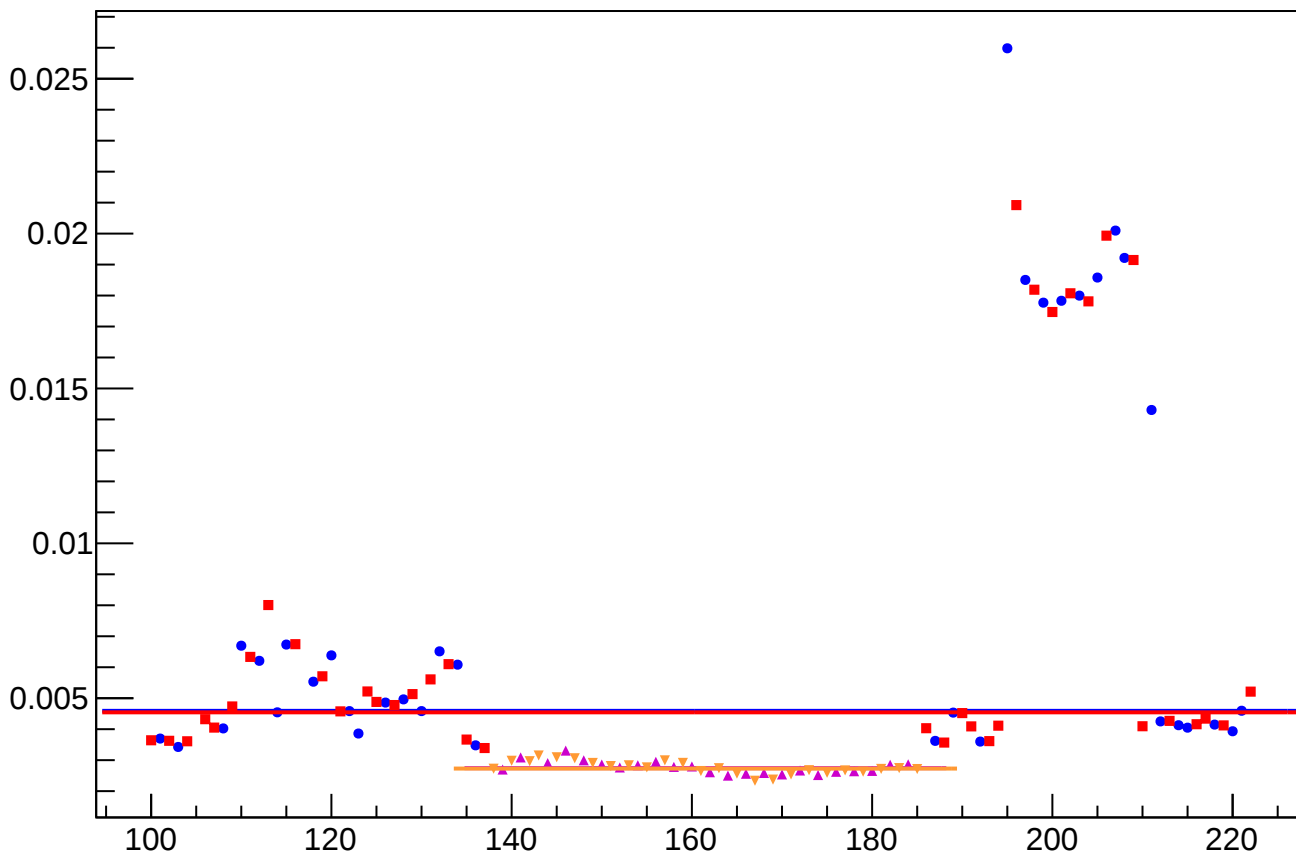
- sign 0.012 $\pm$ 0.000 χ^2/NDF : 4978369.6/60

yield_bpm0l08Y_mean vs Slug



Right In: -0.022+/-0.000	χ^2/NDF : 410048048036.9/34	+ sign -0.231+/-0.000	χ^2/NDF : 450302383608.3/59
Left Out: -0.290+/-0.000	χ^2/NDF : 2877519093.0/24	All: -0.219+/-0.000	χ^2/NDF : 876687555036.4
Right Out: 0.044+/-0.000	χ^2/NDF : 359232654138.5/37	- sign -0.205+/-0.000	χ^2/NDF : 425390142249.2/60
Left In: -0.291+/-0.000	χ^2/NDF : 3125402243.3/22		

yield_bpm0l08Y_rms vs Slug



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 8651827.5/34

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:206527.1/24

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 7020194.7/37

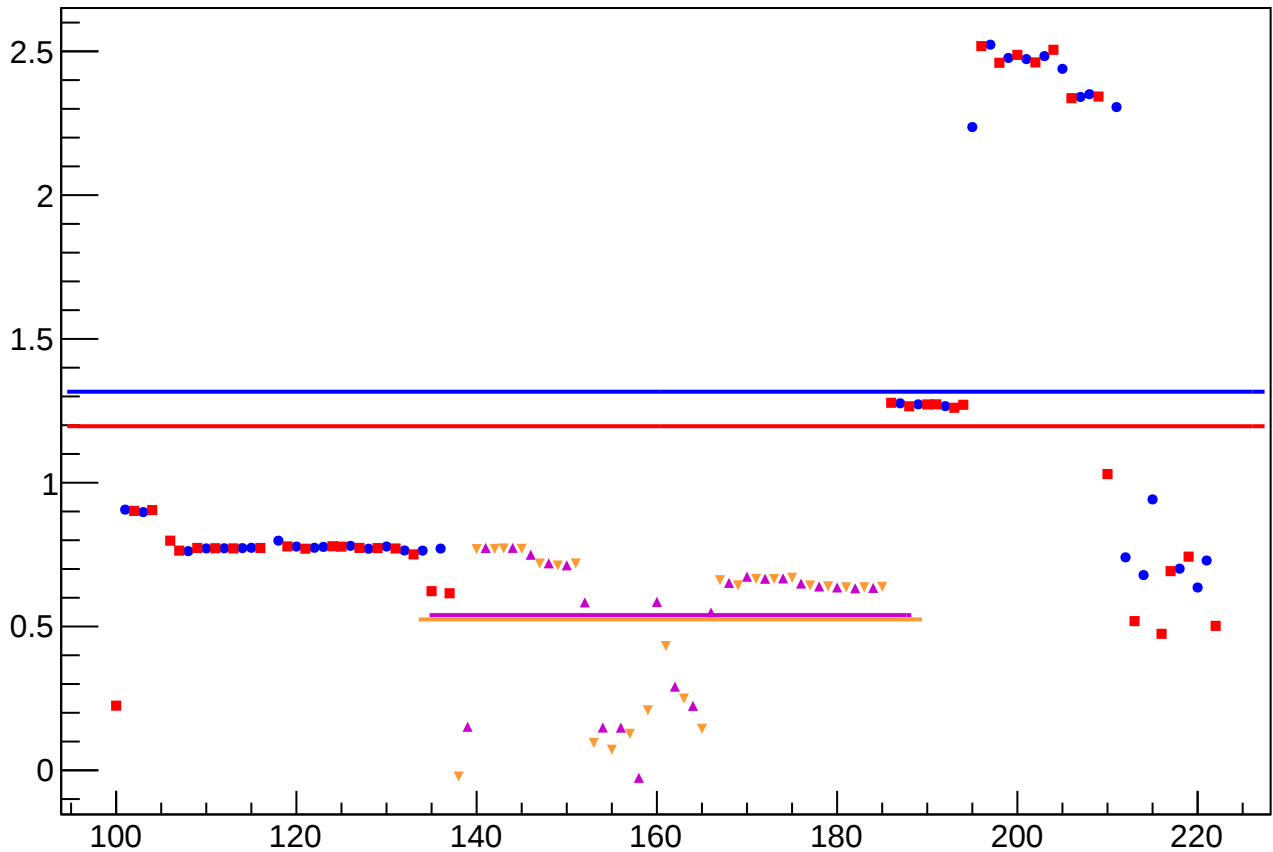
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:147778.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 12460134.2/59

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 23291209.5/120

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 10818551.1/60

yield_bpm0l09X_mean vs Slug



Right In: 1.316 $\pm$ 0.000 χ^2 /NDF: 62584058524.1/34

Left Out: 0.525 $\pm$ 0.000 χ^2 /NDF: 9623503169.9/24

Right Out: 1.196 $\pm$ 0.000 χ^2 /NDF: 58659963007.6/37

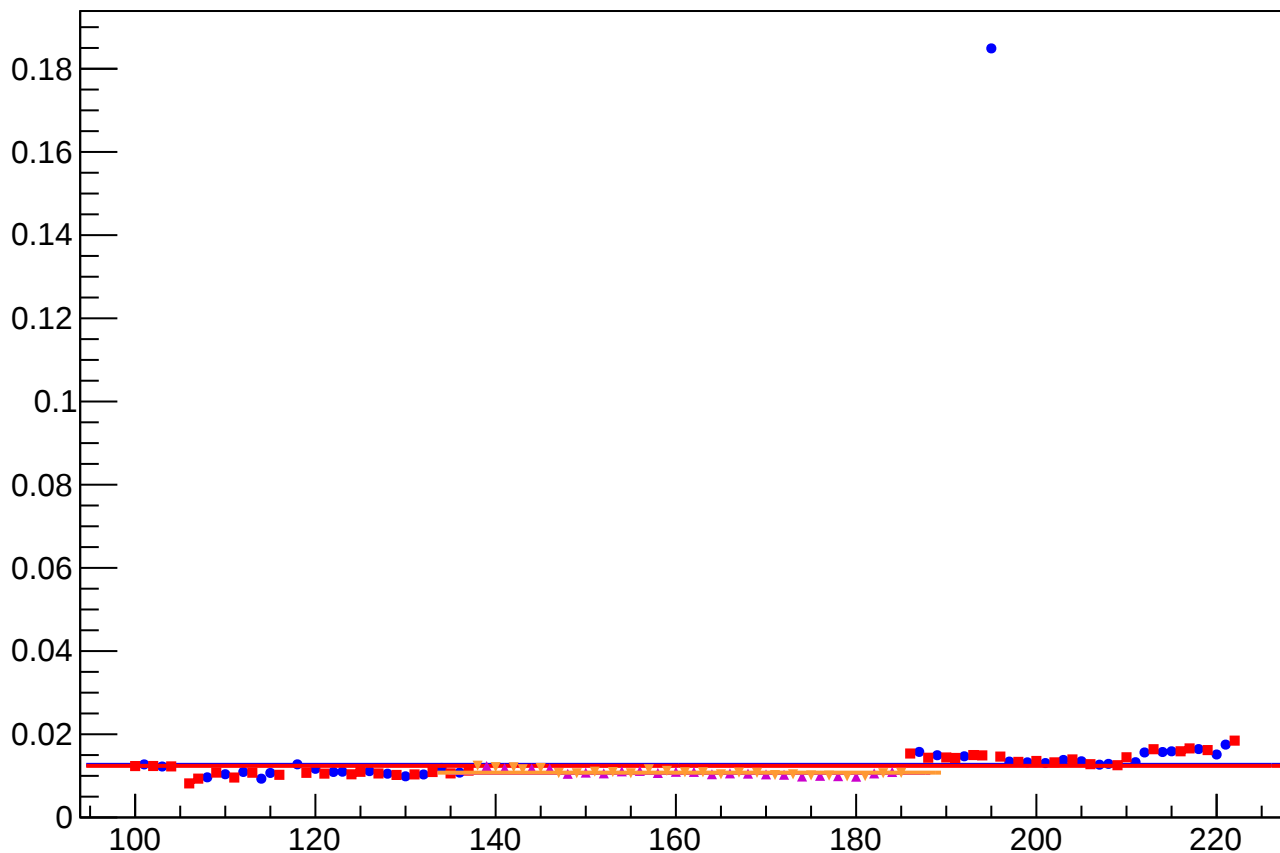
Left In: 0.540 $\pm$ 0.000 χ^2 /NDF: 7860539135.5/22

+ sign 0.857 $\pm$ 0.000 χ^2 /NDF: 112400185855.6/59

All: 0.847 $\pm$ 0.000 χ^2 /NDF: 207469630950.9

- sign 0.837 $\pm$ 0.000 χ^2 /NDF: 95012847896.4/60

yield_bpm0l09X_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2314788.6/34

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:131630.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 1314991.8/37

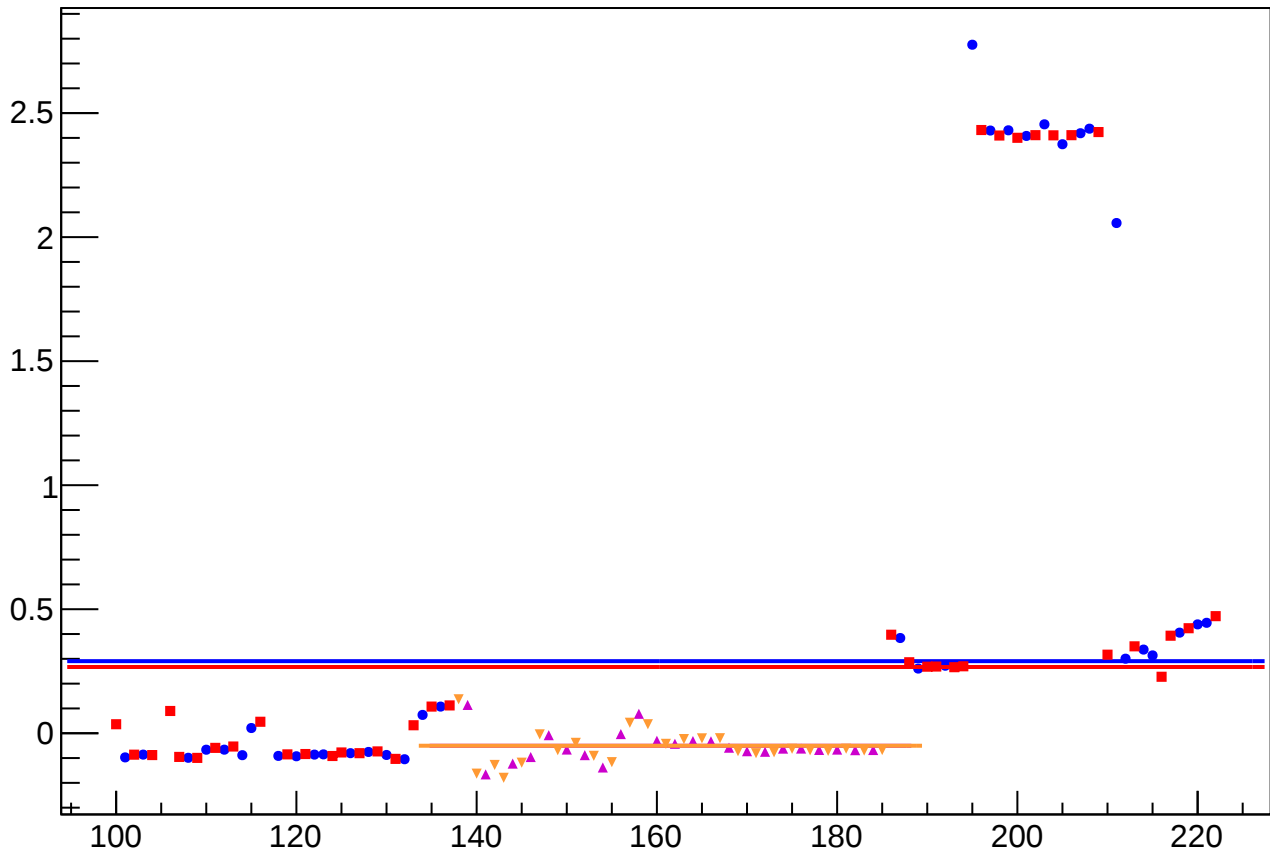
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:119273.2/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 2898530.3/59

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4722577.0/120

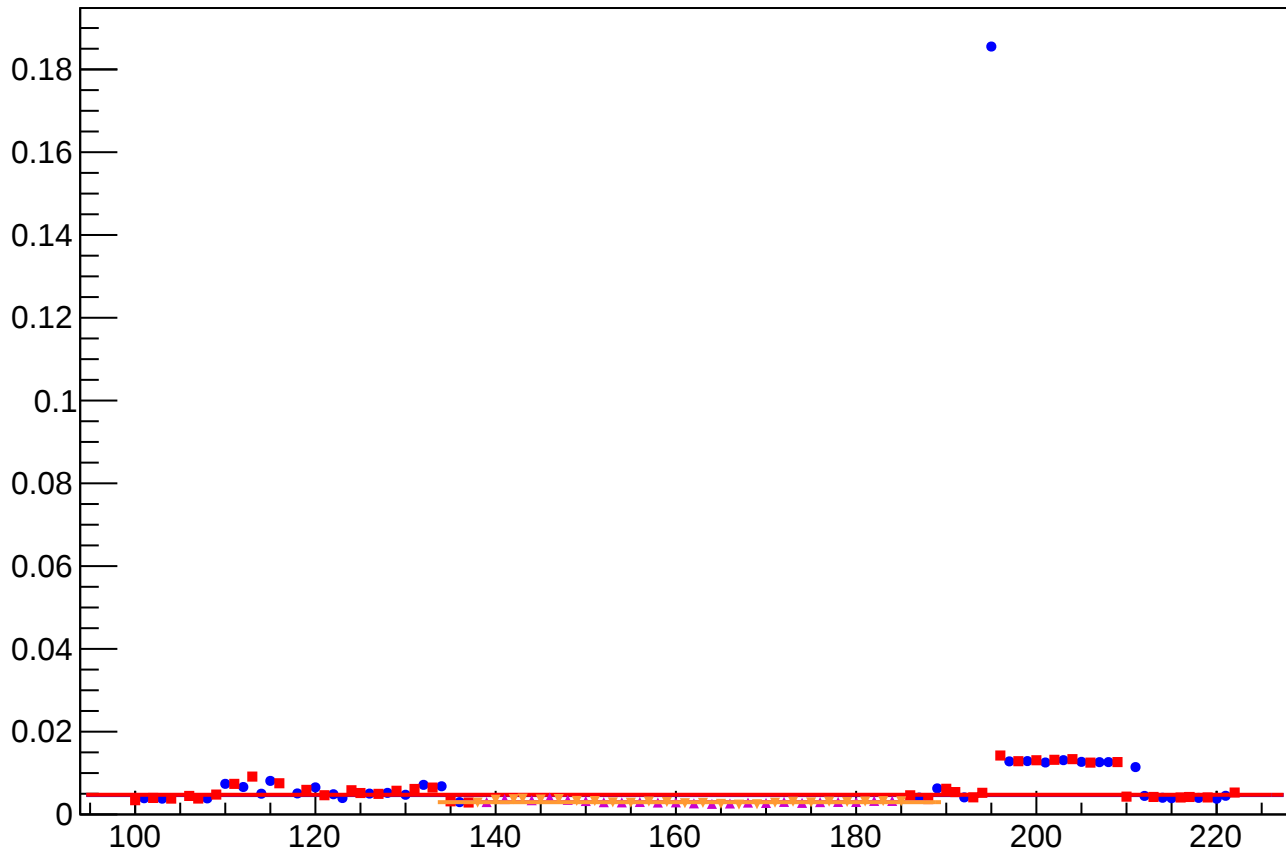
- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 1821810.0/60

yield_bpm0l09Y_mean vs Slug



Right In: 0.291+/-0.000	χ^2/NDF : 198680918879.4/34	+ sign 0.035+/-0.000	χ^2/NDF : 262719215548.2/59
Left Out: -0.050+/-0.000	χ^2/NDF : 7271496478.6/24	All: 0.037+/-0.000	χ^2/NDF : 482845583762.7
Right Out: 0.267+/-0.000	χ^2/NDF : 163715260975.2/37	- sign 0.038+/-0.000	χ^2/NDF : 220116237479.4/60
Left In: -0.051+/-0.000	χ^2/NDF : 6128769990.8/22		

yield_bpm0l09Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 7600590.4/34

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5278316.3/37

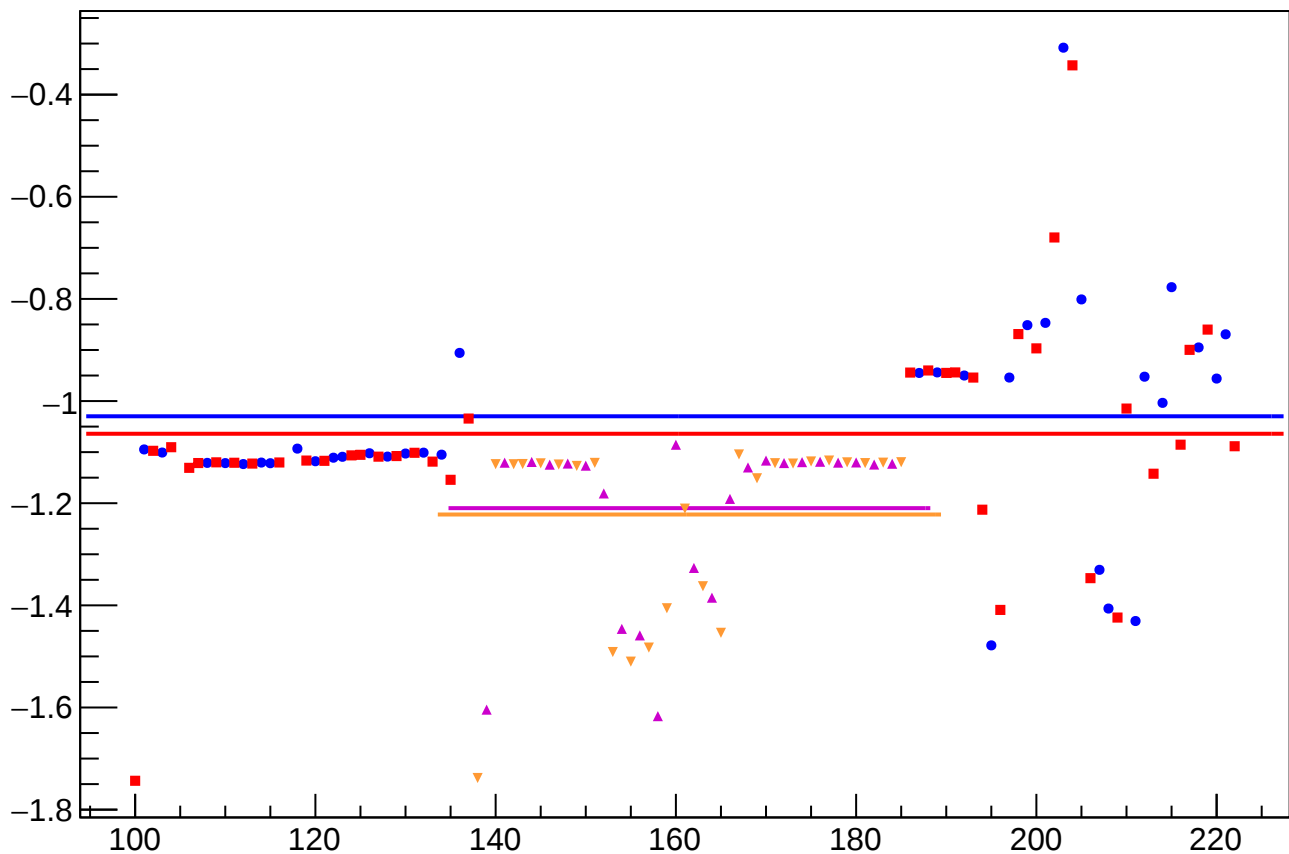
Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

+ sign 0.003+/-0.000 χ^2/NDF : 10971432.7/59

All: 0.003+/-0.000 χ^2/NDF : 19657209.6/120

- sign 0.003+/-0.000 χ^2/NDF : 8661289.6/60

yield_bpm0l10X_mean vs Slug



Right In: -1.030 ± 0.000 $\chi^2/\text{NDF}: 6011344368.9/34$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.064 ± 0.000 $\chi^2/\text{NDF}: 4917130875.1/37$

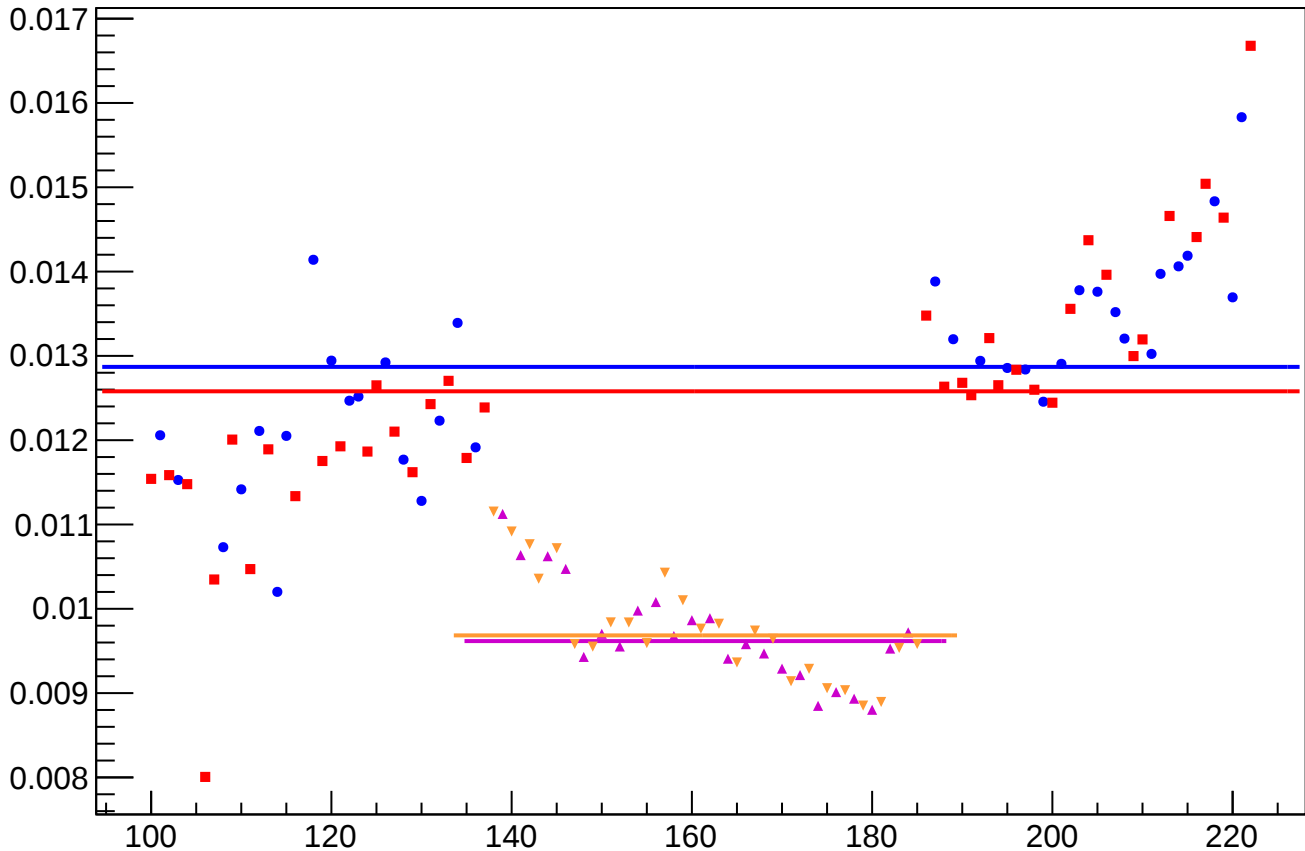
Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

+ sign -1.150 ± 0.000 $\chi^2/\text{NDF}: 13907185949.4/59$

All: -1.151 ± 0.000 $\chi^2/\text{NDF}: 24880485045.1/100$

- sign -1.151 ± 0.000 $\chi^2/\text{NDF}: 10973257103.4/60$

yield_bpm0l10X_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 243398.1/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 573994.3/37

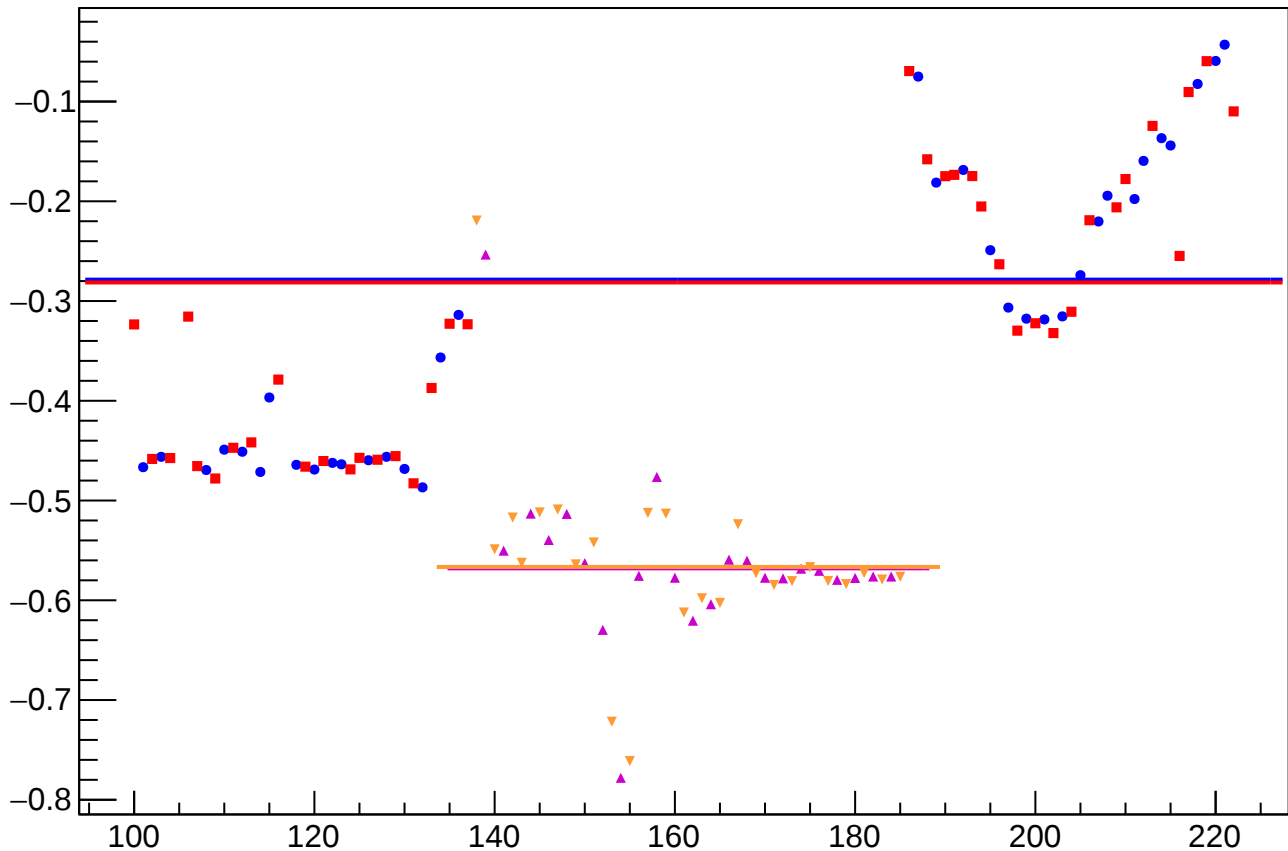
Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 1813379.7/59

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3794028.2/120

- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 1979560.7/60

yield_bpm0l10Y_mean vs Slug



Right In: -0.279 ± 0.000 χ^2/NDF : 21019901652.4/34

Left Out: -0.567 ± 0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.281 ± 0.000 χ^2/NDF : 20121524422.5/37

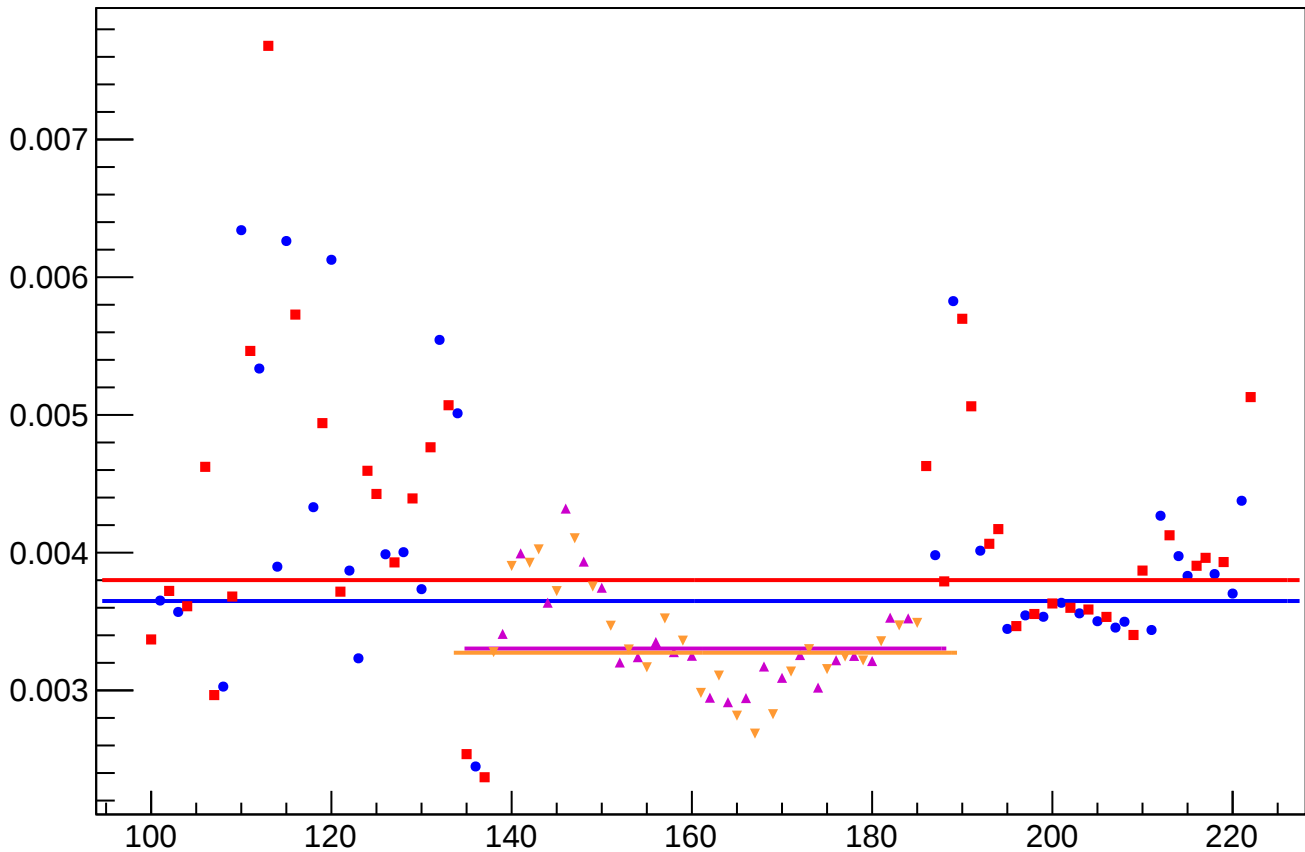
Left In: -0.568 ± 0.000 χ^2/NDF : 10458990019.9/22

+ sign -0.436 ± 0.000 χ^2/NDF : 94476558655.7/59

All: -0.436 ± 0.000 χ^2/NDF : 181248789557.4

- sign -0.435 ± 0.000 χ^2/NDF : 86771005975.8/60

yield_bpm0l10Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 1079774.9/34

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1213632.5/37

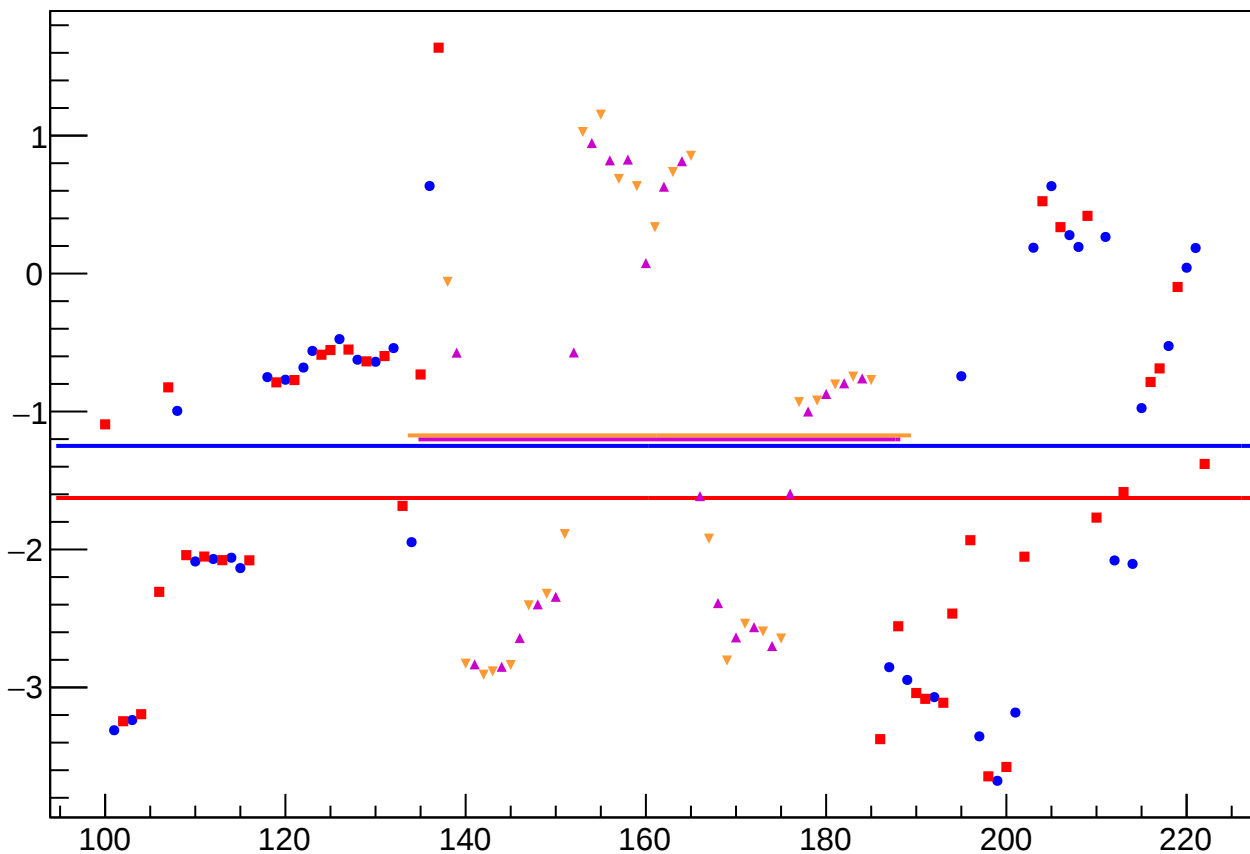
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:286064.1/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1678758.0/59

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3539555.2/120

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 1837592.8/60

yield_bpm0r03X_mean vs Slug



Right In: -1.249+/-0.000 χ^2/NDF : 6646591123.4/34

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.627+/-0.000 χ^2/NDF : 5685796644.1/37

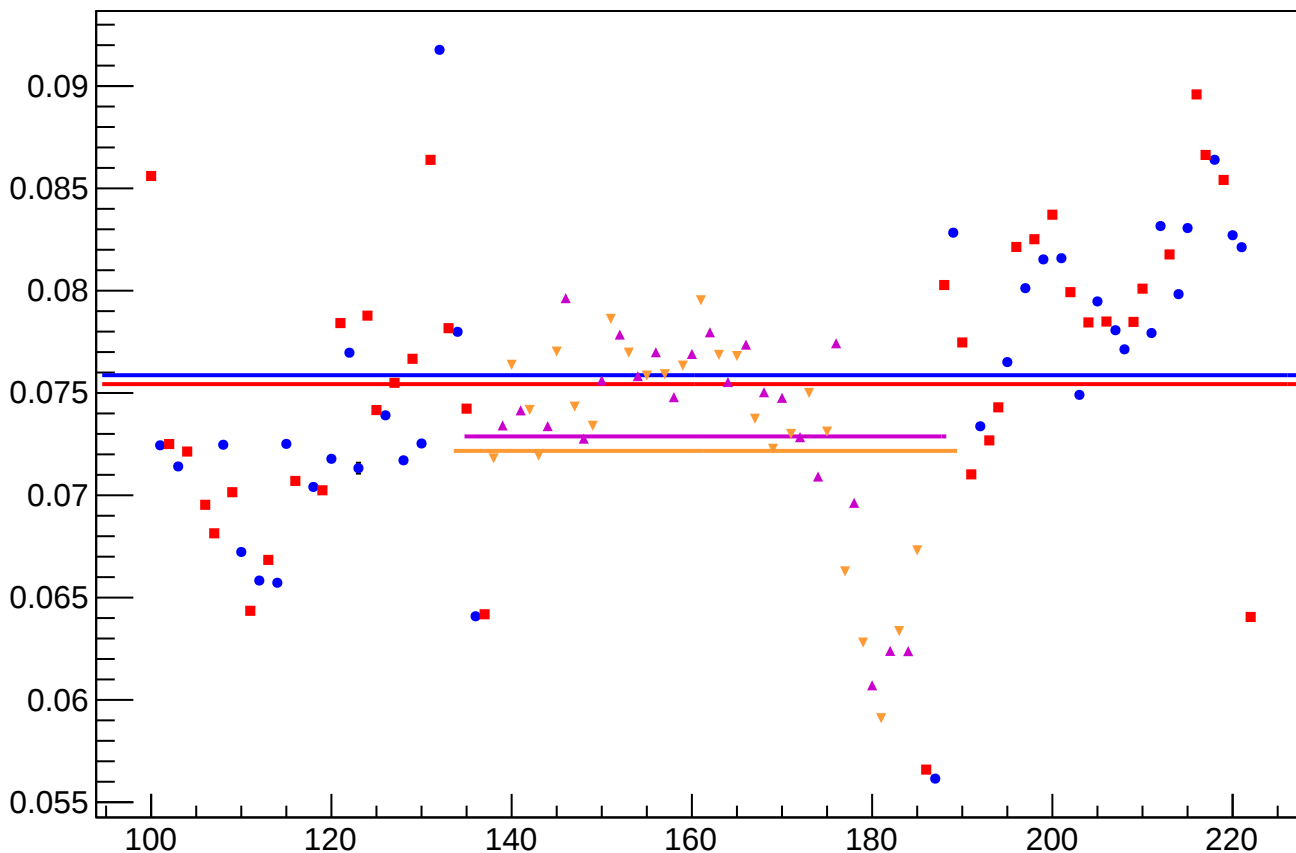
Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

+ sign -1.210+/-0.000 χ^2/NDF : 13539071743.4/59

All: -1.317+/-0.000 χ^2/NDF : 25287311655.3/100

- sign -1.424+/-0.000 χ^2/NDF : 11594299752.5/60

yield_bpm0r03X_rms vs Slug



Right In: 0.076 $\pm$ 0.000 χ^2 /NDF: 274476.5/34

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 383538.6/37

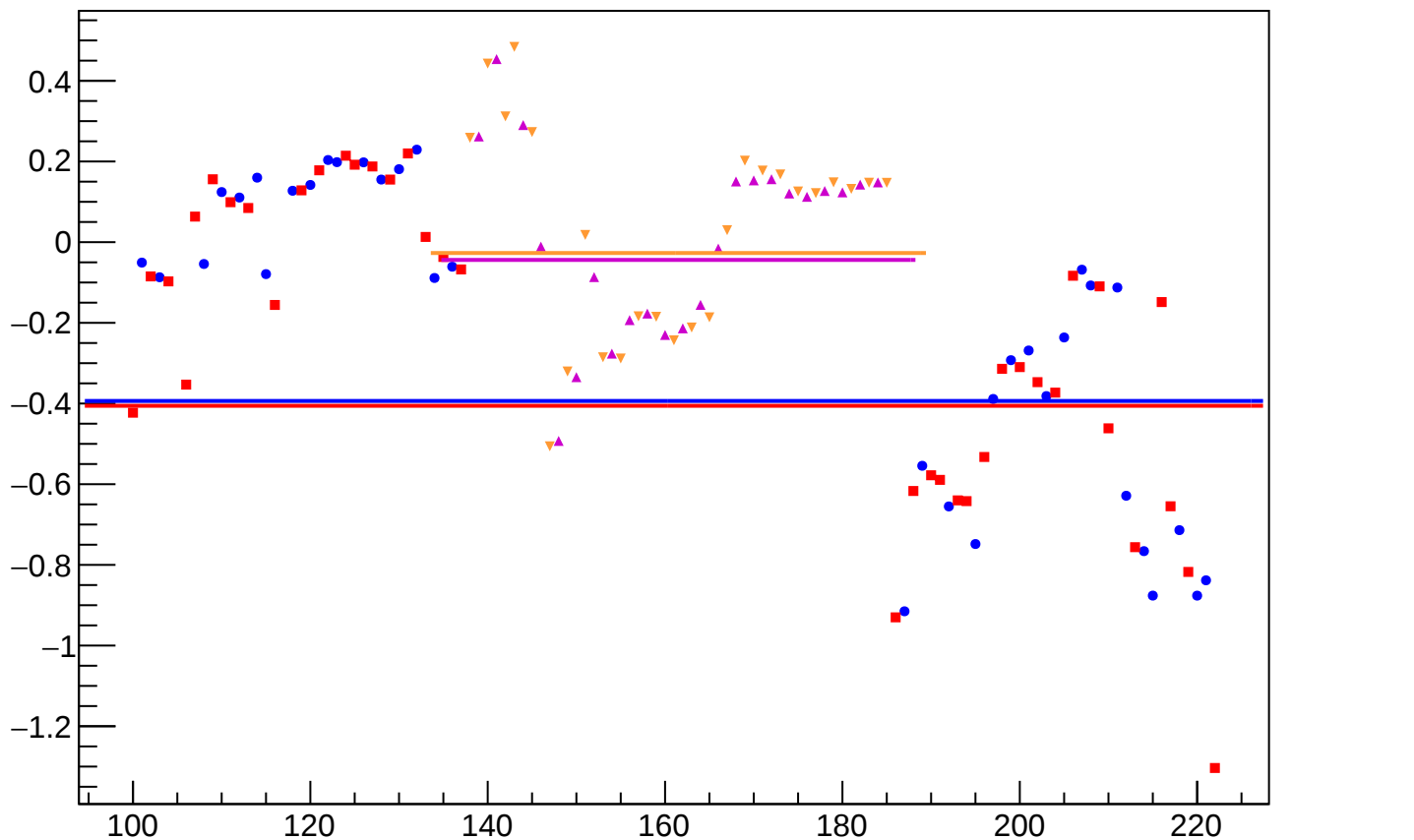
Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

+ sign 0.074 $\pm$ 0.000 χ^2 /NDF: 543039.0/59

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 1132294.2/120

- sign 0.074 $\pm$ 0.000 χ^2 /NDF: 588881.2/60

yield_bpm0r03Y_mean vs Slug



Right In: -0.394 ± 0.000 χ^2/NDF : 30550466336.0/34

Left Out: -0.027 ± 0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.406 ± 0.000 χ^2/NDF : 30991759368.8/37

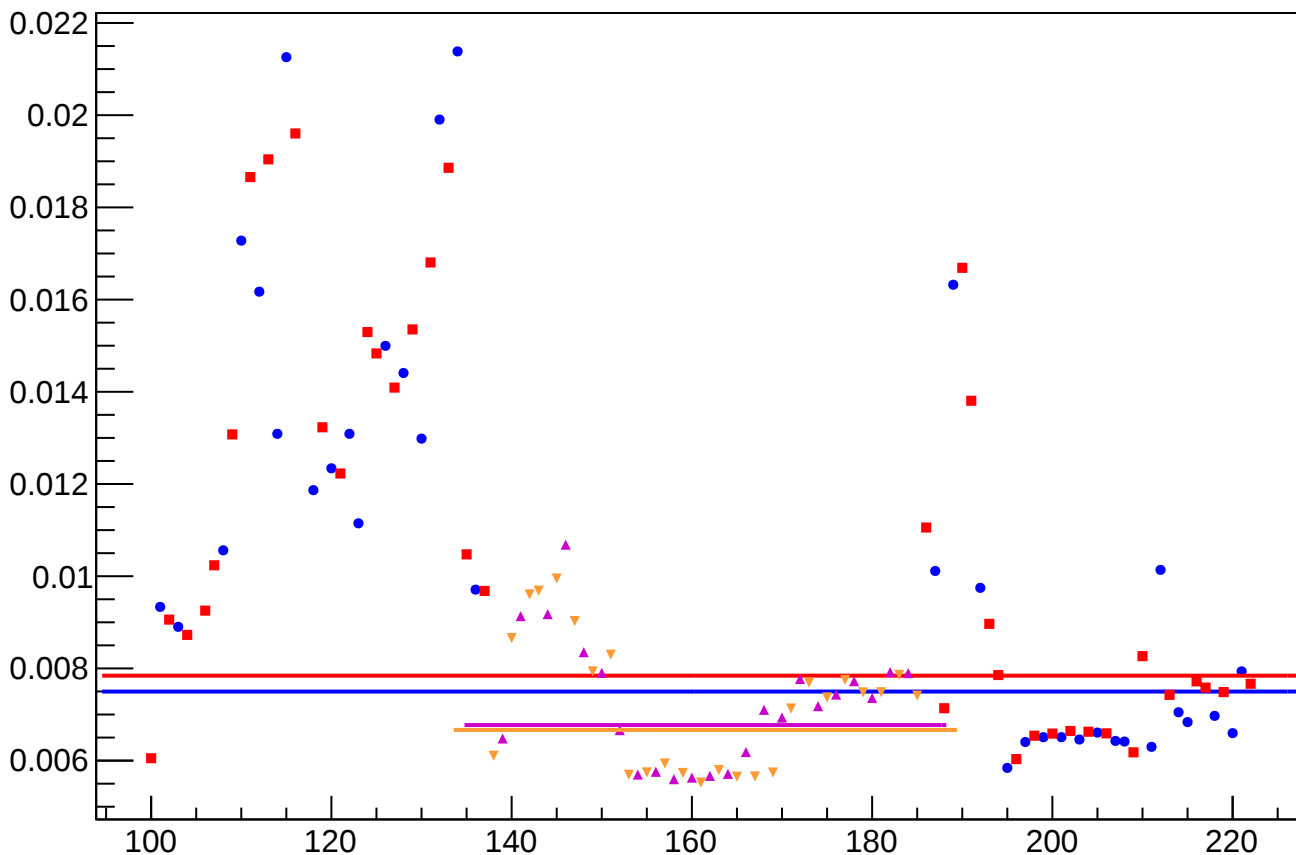
Left In: -0.044 ± 0.000 χ^2/NDF : 15718556282.1/22

+ sign -0.189 ± 0.000 χ^2/NDF : 73391500097.4/59

All: -0.197 ± 0.000 χ^2/NDF : 140383975774.5

- sign -0.206 ± 0.000 χ^2/NDF : 66899717590.7/60

yield_bpm0r03Y_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3006531.7/34

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1143768.6/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3087101.5/37

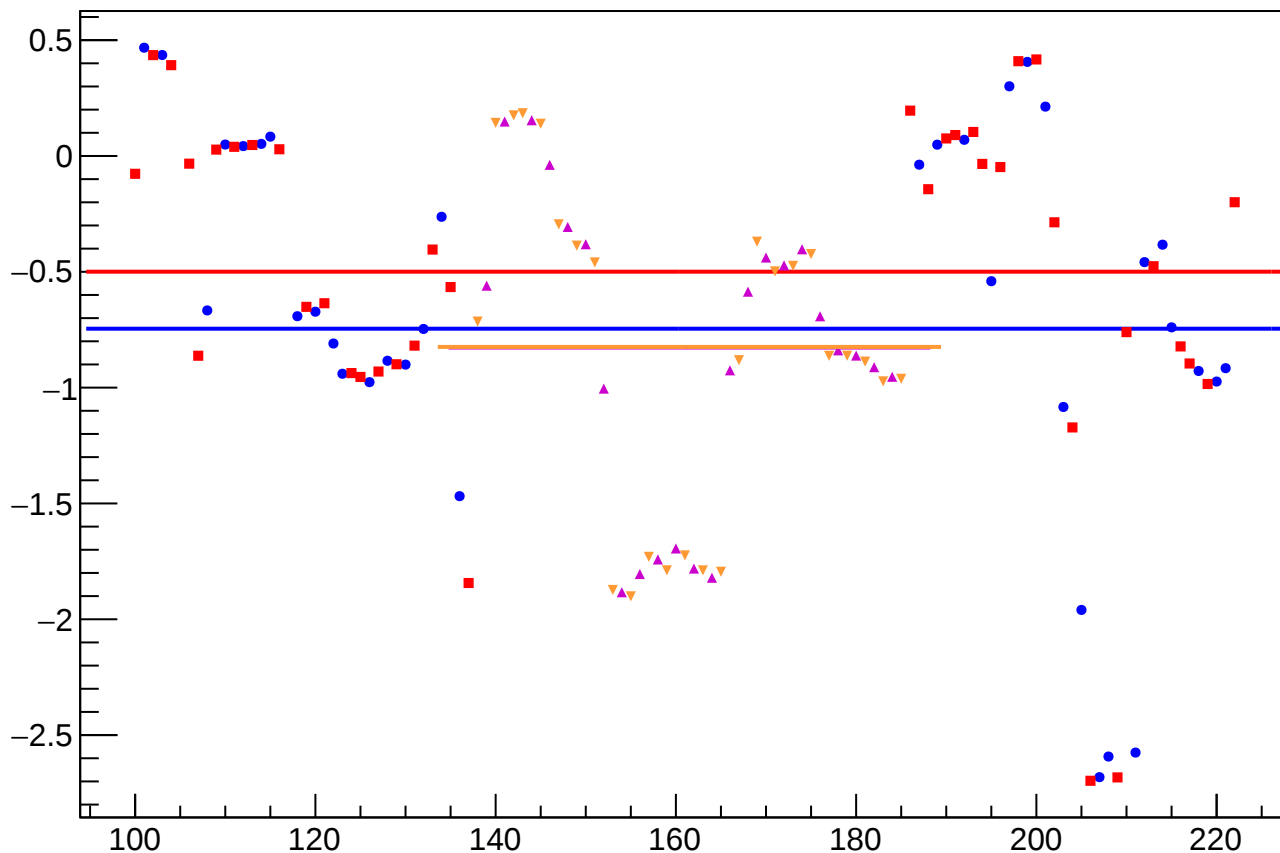
Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:934050.3/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 4381481.5/59

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 8787677.6/120

- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 4375518.0/60

yield_bpm0r05X_mean vs Slug



Right In: -0.746+/-0.000 χ^2/NDF : 1775253820.8/34

Left Out: -0.824+/-0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.500+/-0.000 χ^2/NDF : 1523245851.4/37

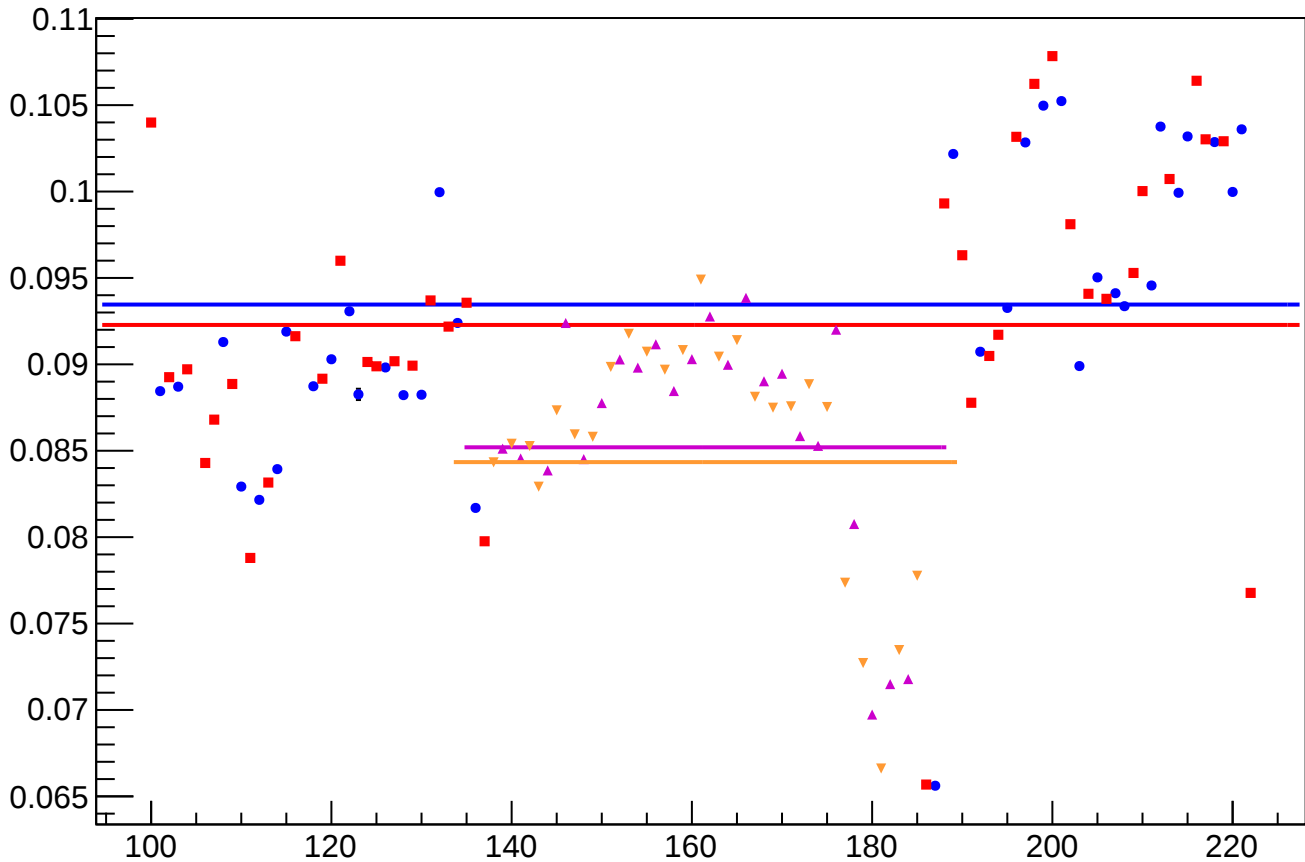
Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

+ sign -0.788+/-0.000 χ^2/NDF : 2886169285.7/59

All: -0.726+/-0.000 χ^2/NDF : 5494332046.9/1

- sign -0.663+/-0.000 χ^2/NDF : 2571331304.8/60

yield_bpm0r05X_rms vs Slug



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 268422.9/34

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 427342.3/37

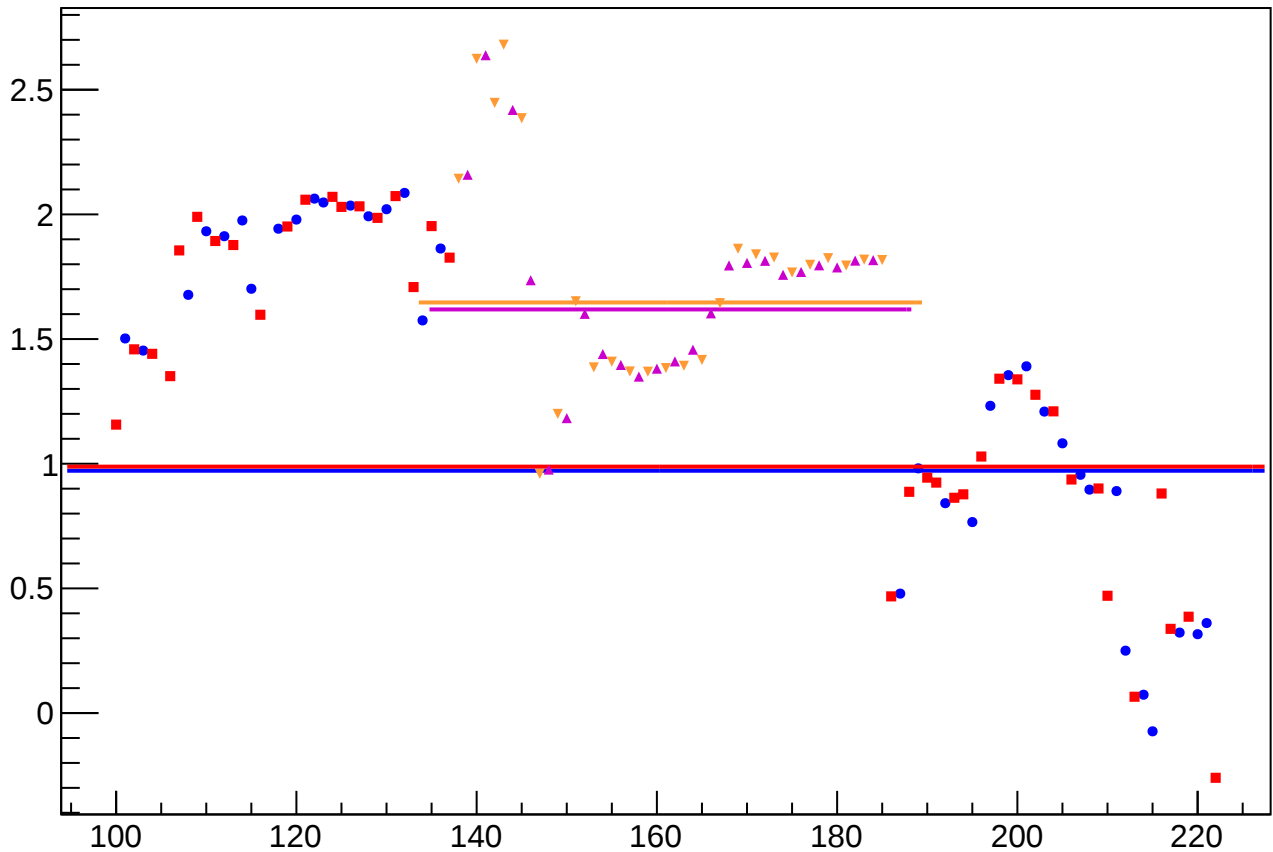
Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

+ sign 0.089 $\pm$ 0.000 χ^2 /NDF: 753337.7/59

All: 0.089 $\pm$ 0.000 χ^2 /NDF: 1537407.9/120

- sign 0.089 $\pm$ 0.000 χ^2 /NDF: 783921.1/60

yield_bpm0r05Y_mean vs Slug



Right In: 0.972 $\pm$ 0.000 χ^2 /NDF: 45979291873.2/34

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 0.988 $\pm$ 0.000 χ^2 /NDF: 40413990791.7/37

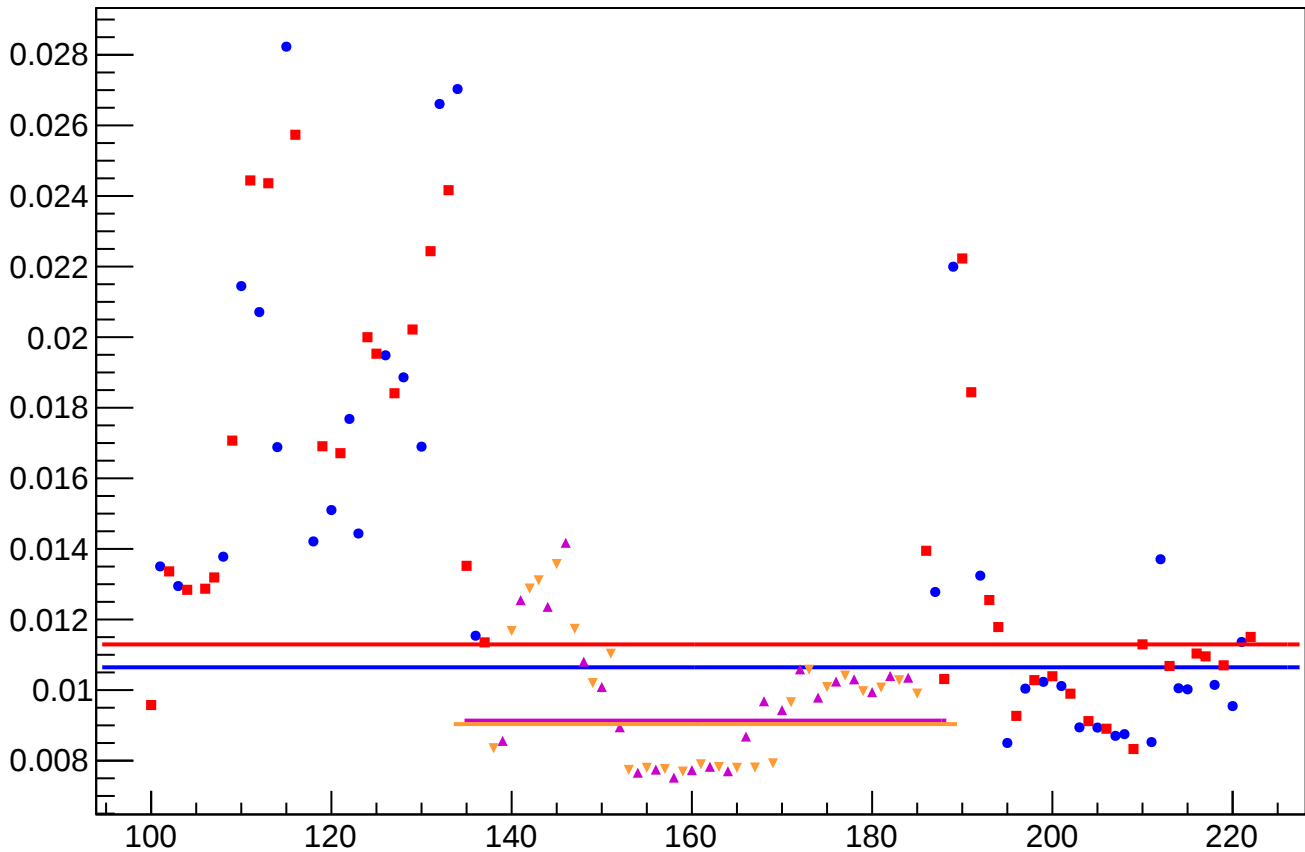
Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

+ sign 1.363 $\pm$ 0.000 χ^2 /NDF: 112364884811.8/59

All: 1.359 $\pm$ 0.000 χ^2 /NDF: 205234289508.6

- sign 1.355 $\pm$ 0.000 χ^2 /NDF: 92858670210.1/60

yield_bpm0r05Y_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 2455686.2/34

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2537716.5/37

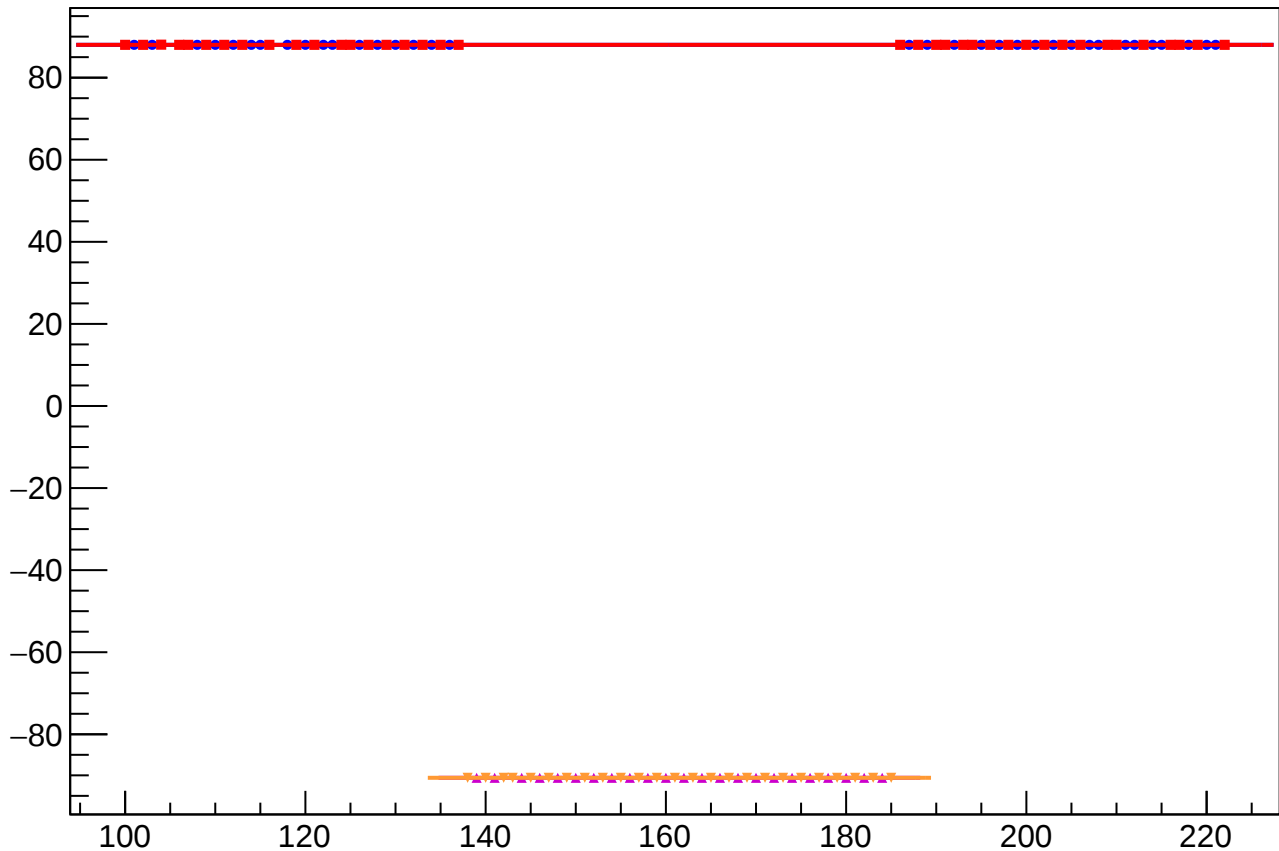
Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

+ sign 0.010+/-0.000 χ^2/NDF : 3951891.2/59

All: 0.010+/-0.000 χ^2/NDF : 8150810.4/120

- sign 0.010+/-0.000 χ^2/NDF : 4162568.0/60

epics_VWienAngles_mean vs Slug



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 3362238.8/34

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 5785821.4/24

Right Out: 88.002 $\pm$ 0.000 χ^2 /NDF: 81396908759488698484233601024.0/37

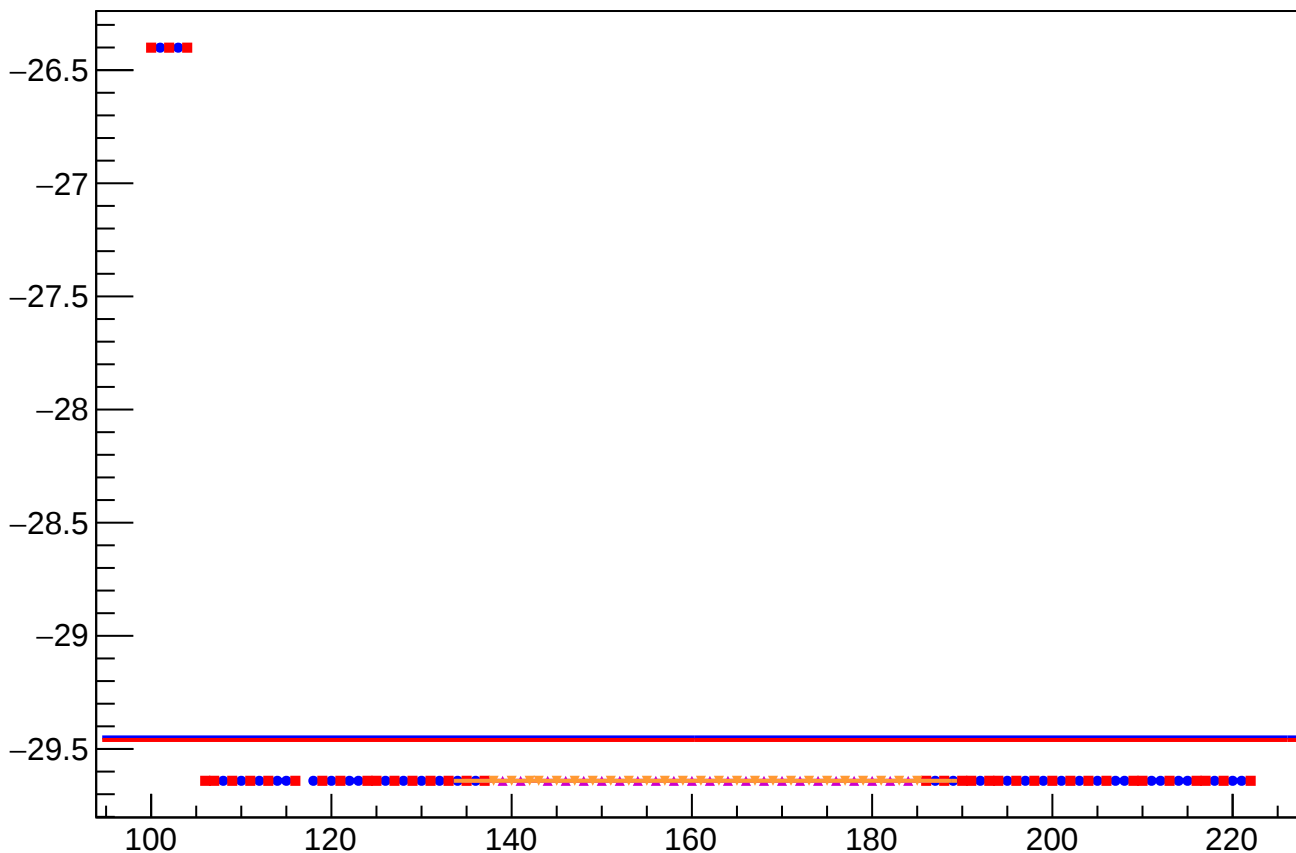
Left In: -90.599 $\pm$ 0.000 χ^2 /NDF: 7134230.8/22

+ sign 0.739 $\pm$ 0.000 χ^2 /NDF: 31076335962349305

All: 3.018 $\pm$ 0.000 χ^2 /NDF: 61880986441220

- sign 5.308 $\pm$ 0.000 χ^2 /NDF: 30764052883746817

epics_HWienAngles_mean vs Slug



Right In: -29.449+/-0.000 χ^2/NDF : 1165412596188556195174564619091968.0/34

Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24

Right Out: -29.460+/-0.000 χ^2/NDF : 1149908011137763439097707719819264.0/37

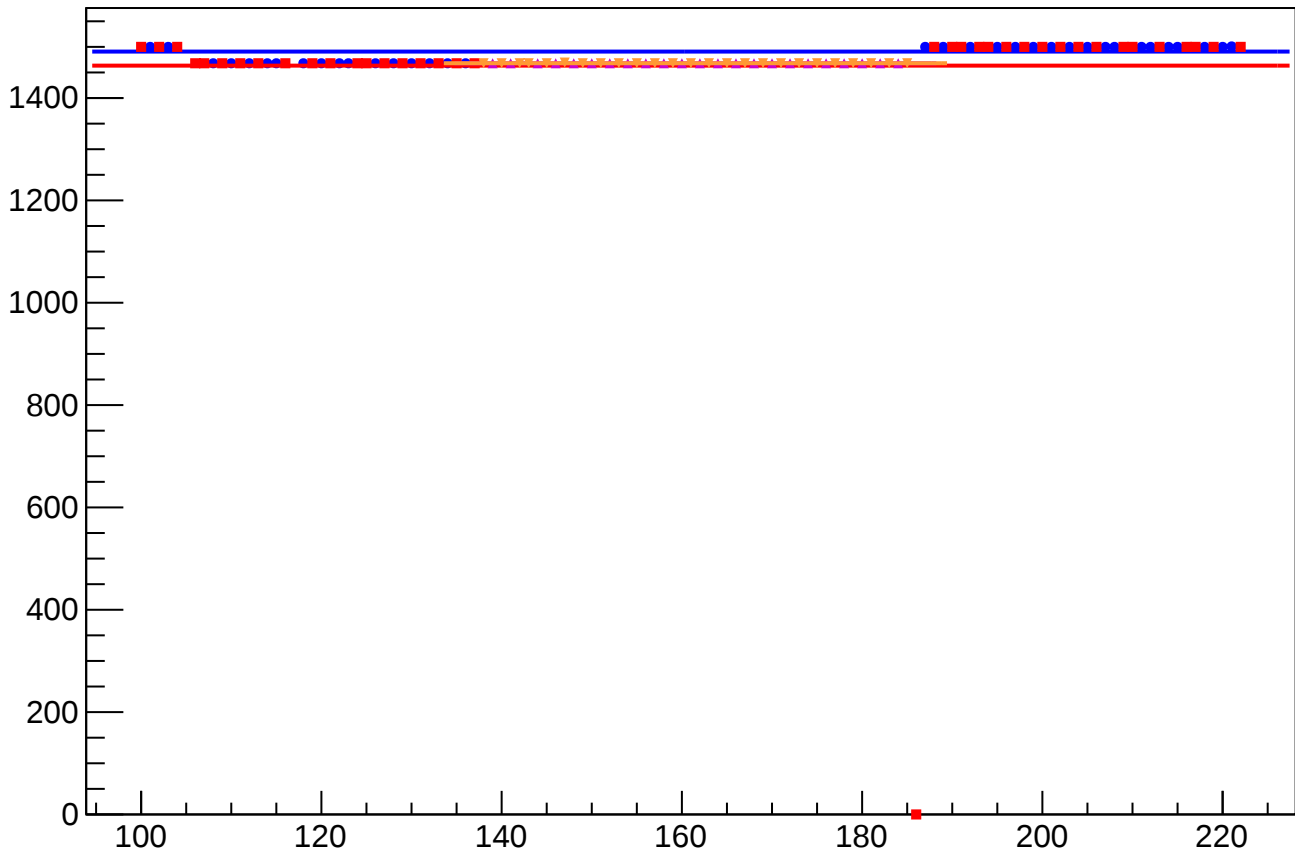
Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22

+ sign -29.543+/-0.000 χ^2/NDF : 120122806381121

All: -29.543+/-0.000 χ^2/NDF : 238253680761

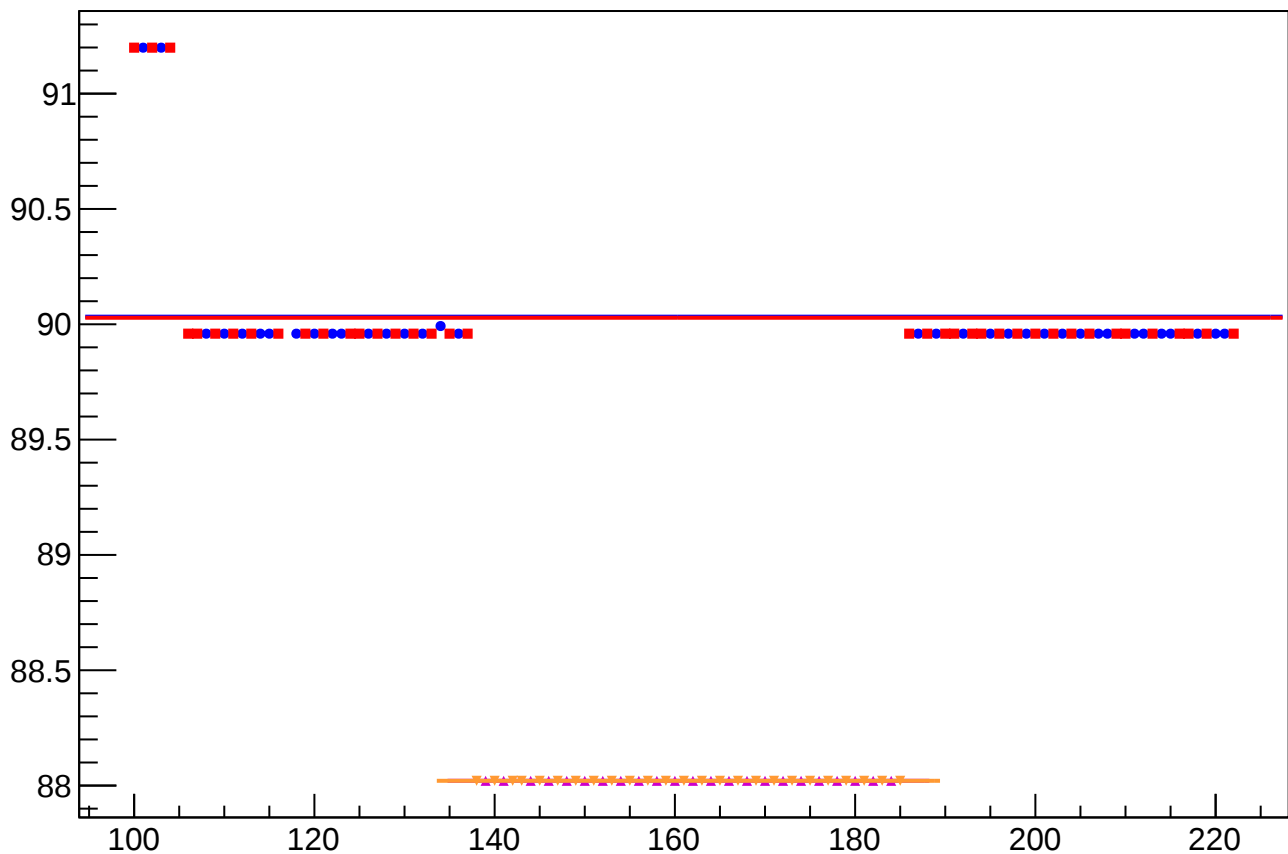
- sign -29.544+/-0.000 χ^2/NDF : 1181306104872362

epics_psub_pl_poss_mean vs Slug



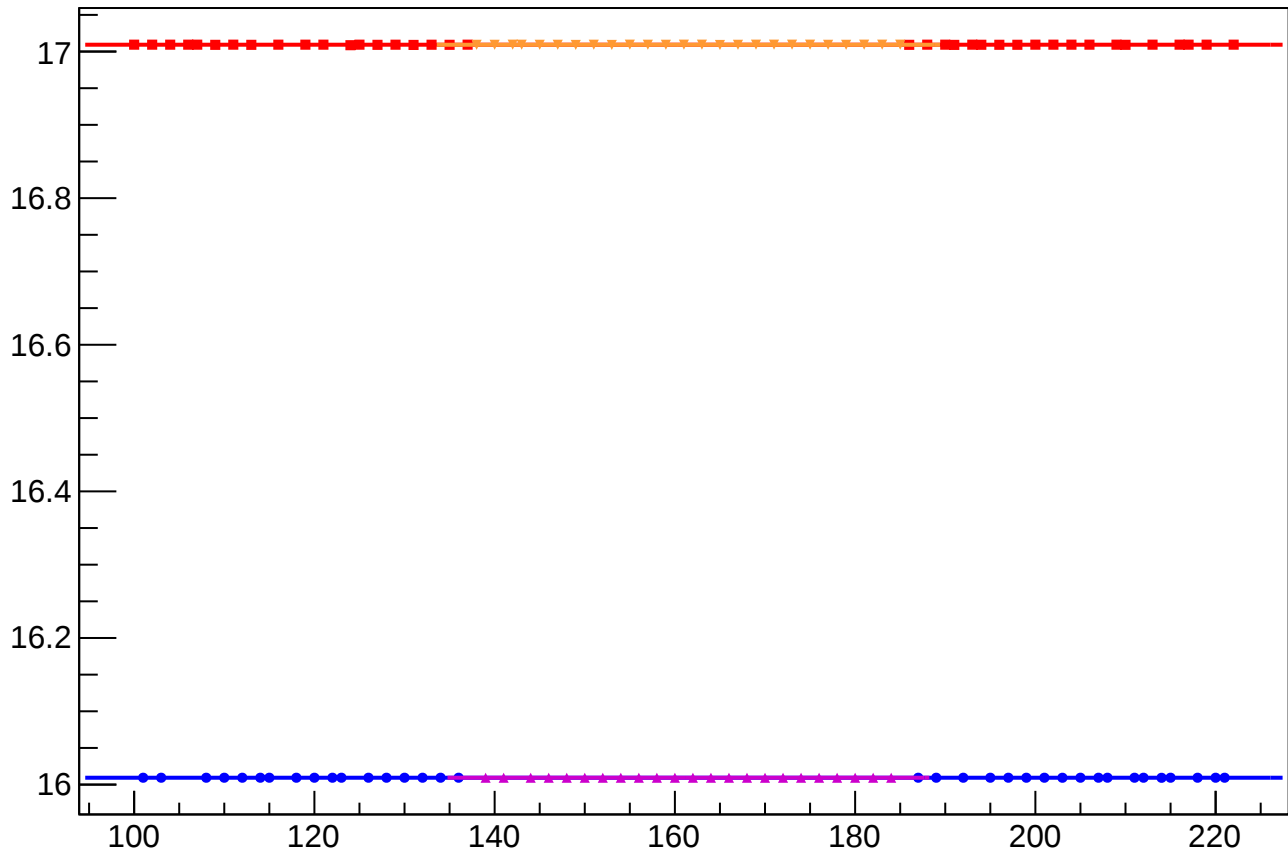
Right In: 1490.819+/-0.000 χ^2/NDF : 419472815494910489933634633356804096.0/34
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1463.351+/-0.000 χ^2/NDF : 83320487027350566444503350174602493952.0/37
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22

epics_Phi_FGs_mean vs Slug



Right In: 90.033+/-0.000 χ^2/NDF : 170620657251119393276142303576064.0/34
 Left Out: 88.021+/-0.000 χ^2/NDF : 5679798.5/24
 Right Out: 90.028+/-0.000 χ^2/NDF : 168428836869946818032128856424448.0/37
 Left In: 88.021+/-0.000 χ^2/NDF : 6257169.0/22
 + sign 89.050+/-0.000 χ^2/NDF : 4115755279951005
 All: 89.074+/-0.000 χ^2/NDF : 8176172562903
 - sign 89.099+/-0.000 χ^2/NDF : 4055754837028573

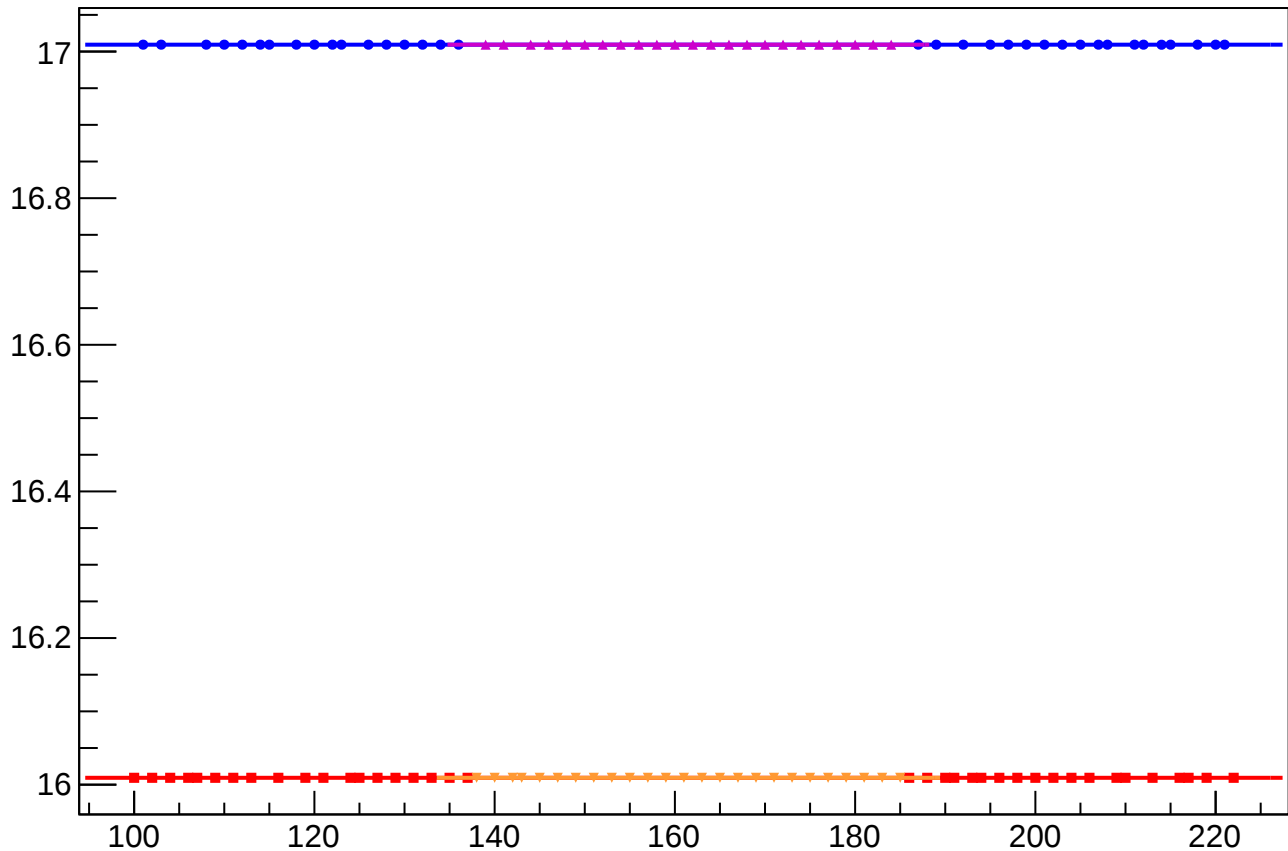
epics_IGL1I00DI24_24Ms_mean vs Slug



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 852254699607548831465472.0/34
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24
 Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 21944168321804436208877568.0/37
 Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

+ sign 16.484 $\pm$ 0.000 χ^2 /NDF: 9303372406673719
 All: 16.520 $\pm$ 0.000 χ^2 /NDF: 1852881988269
 - sign 16.557 $\pm$ 0.000 χ^2 /NDF: 9126720123430642

epics_IGL1I00OD16_16s_mean vs Slug



Right In: 17.009 $\pm$ 0.000 χ^2/NDF : 852254699741075472384000.0/34

Left Out: 16.009 $\pm$ 0.000 χ^2/NDF : 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2/NDF : 322284.4/37

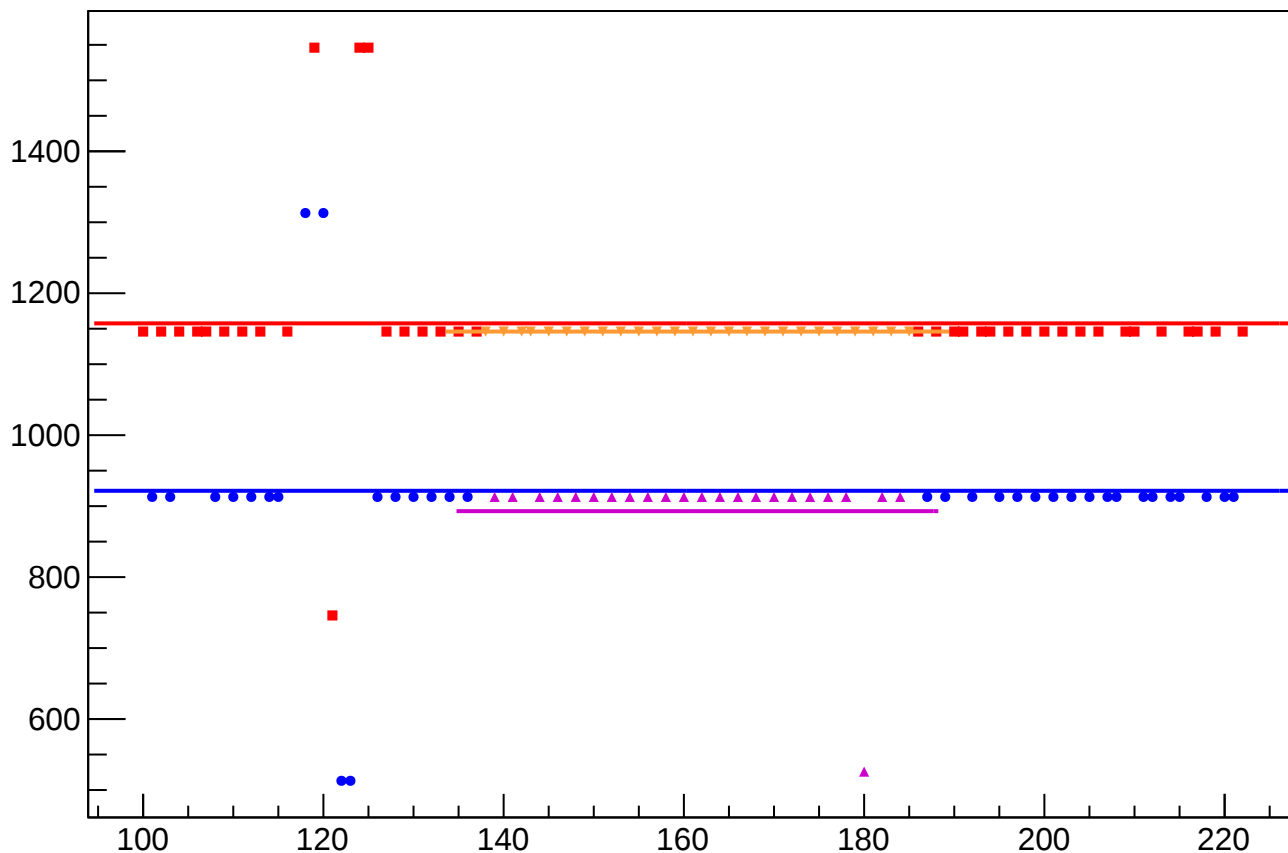
Left In: 17.009 $\pm$ 0.000 χ^2/NDF : 114986101427233622065152.0/22

+ sign 16.520 $\pm$ 0.000 χ^2/NDF : 9603124789265607

All: 16.493 $\pm$ 0.000 χ^2/NDF : 1915544943560

- sign 16.467 $\pm$ 0.000 χ^2/NDF : 9498466227989053

epics_RTPAPOSUCNTs_mean vs Slug



Right In: 921.620 +/- 0.000 χ^2/NDF : 21132995091491845101397724855533568000.0/34

Left Out: 1146.011 +/- 0.000 χ^2/NDF : 8056834670270133849999540224.0/24

Right Out: 1157.532 +/- 0.000 χ^2/NDF : 21804198263931267113237036752122675200.0/37

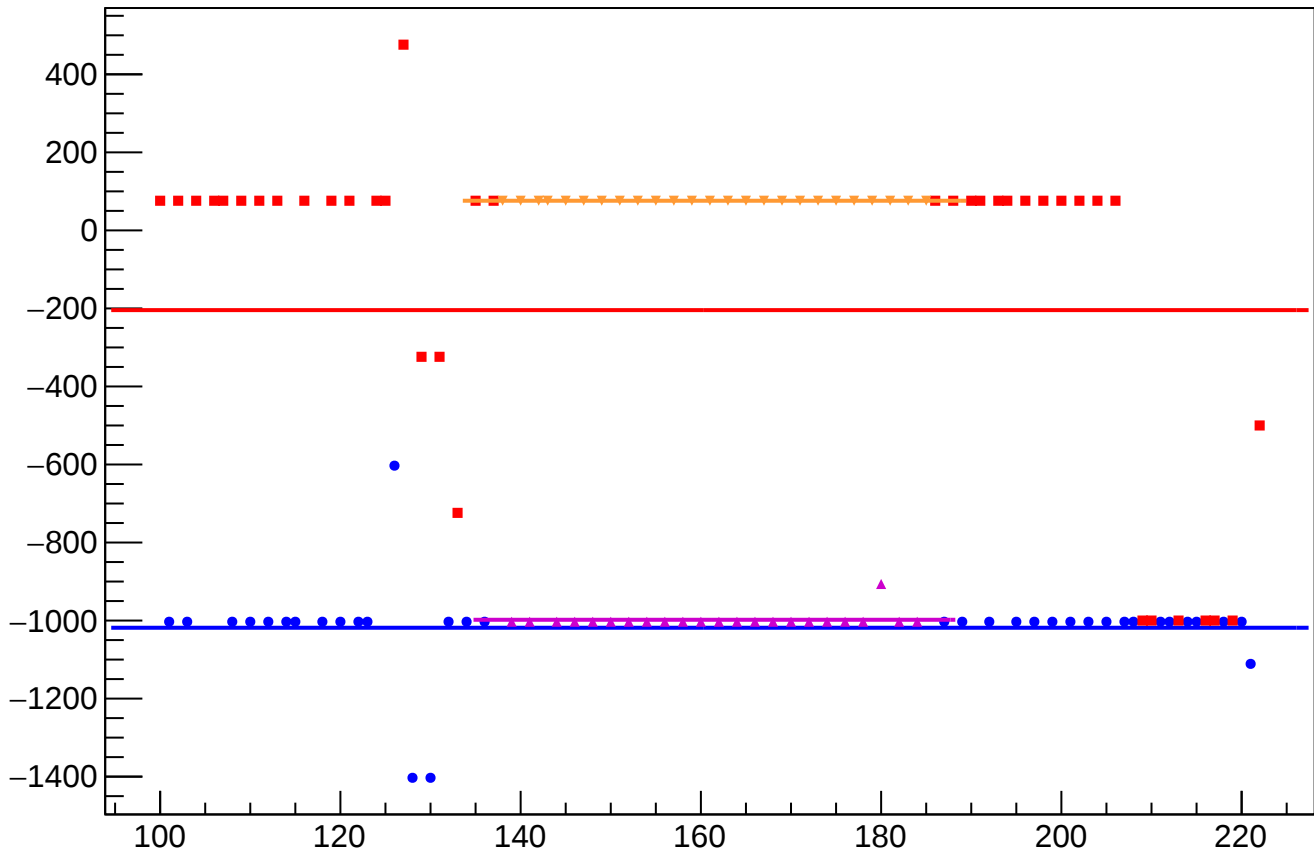
Left In: 892.950 +/- 0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22

All: 1033.137 +/- 0.000 χ^2/NDF : 17274703930

+ sign 1031.255 +/- 0.000 χ^2/NDF : 70187258012565

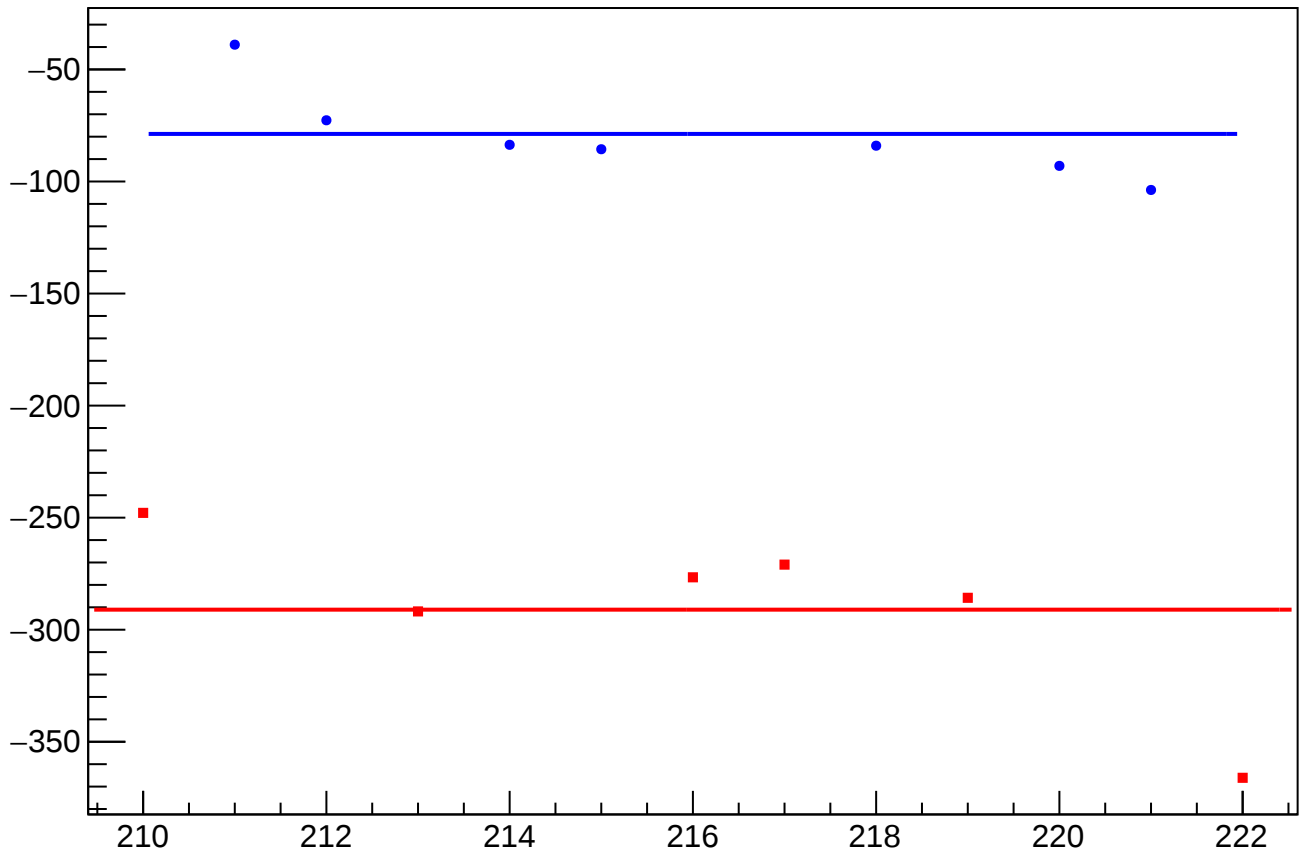
- sign 1035.029 +/- 0.000 χ^2/NDF : 10253208223201

epics_RTPAPOSVCNTs_mean vs Slug



Right In: -1018.411+/-0.000 χ^2/NDF : 23238655210808372605604904936386068480.0/34
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -204.334+/-0.000 χ^2/NDF : 435831954345065911861442724540608151552.0/37
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22

epics_RTPPITA1CNTs_mean vs Slug



Right In: -78.772 $\pm$ 0.000 χ^2 /NDF: 175802545093190723517071813395873792.0/6

+ sign 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

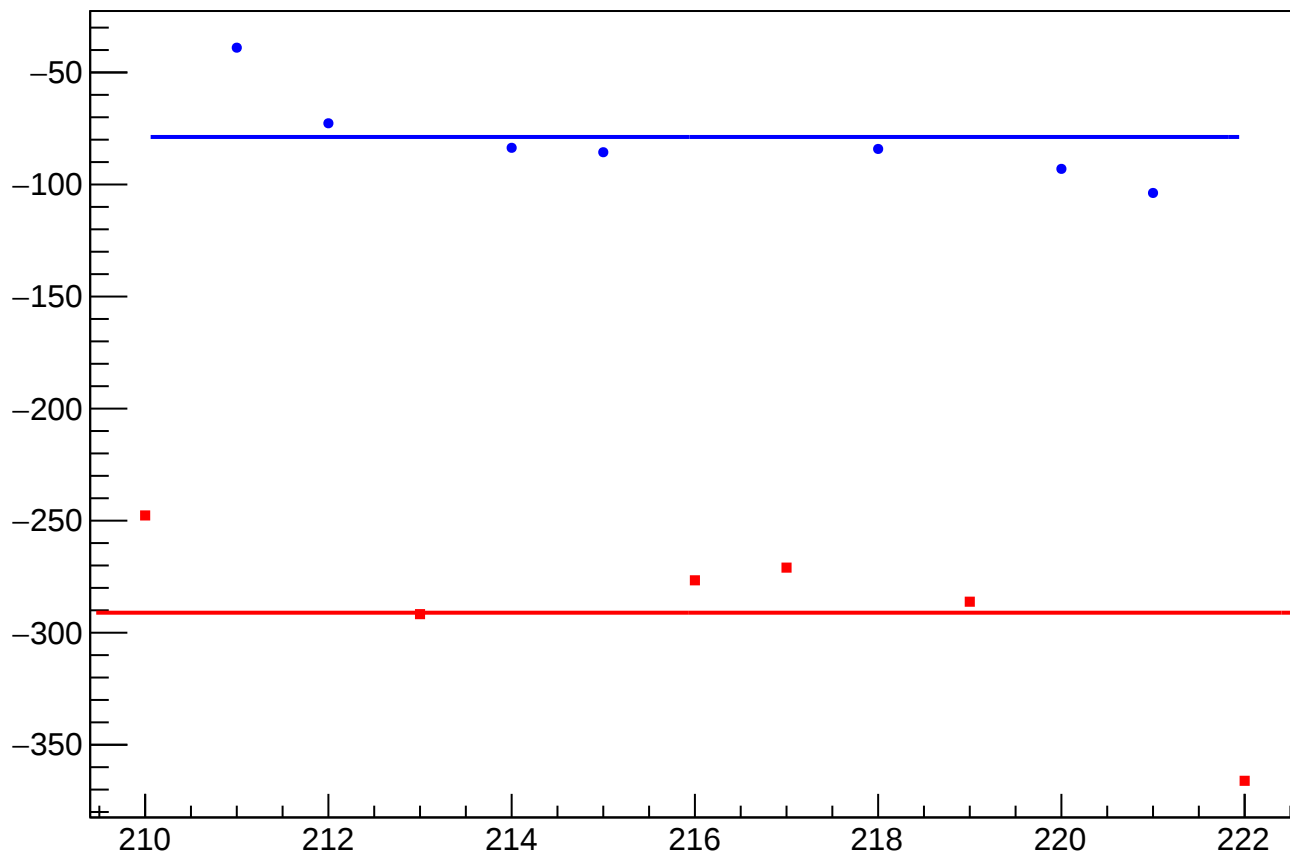
All: -179.962 $\pm$ 0.000 χ^2 /NDF: 11662807205

Right Out: -291.051 $\pm$ 0.000 χ^2 /NDF: 639407032046929648473043444793606144.0/5

- sign 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

epics_RTPPITA2CNTs_mean vs Slug



Right In: -78.790+/-0.000 χ^2/NDF : 175899821083136344171628975429255168.0/6

+ sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -179.981+/-0.000 χ^2/NDF : 11663932795

Right Out: -291.070+/-0.000 χ^2/NDF : 640261501371086537686874016962314240.0/5

- sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0