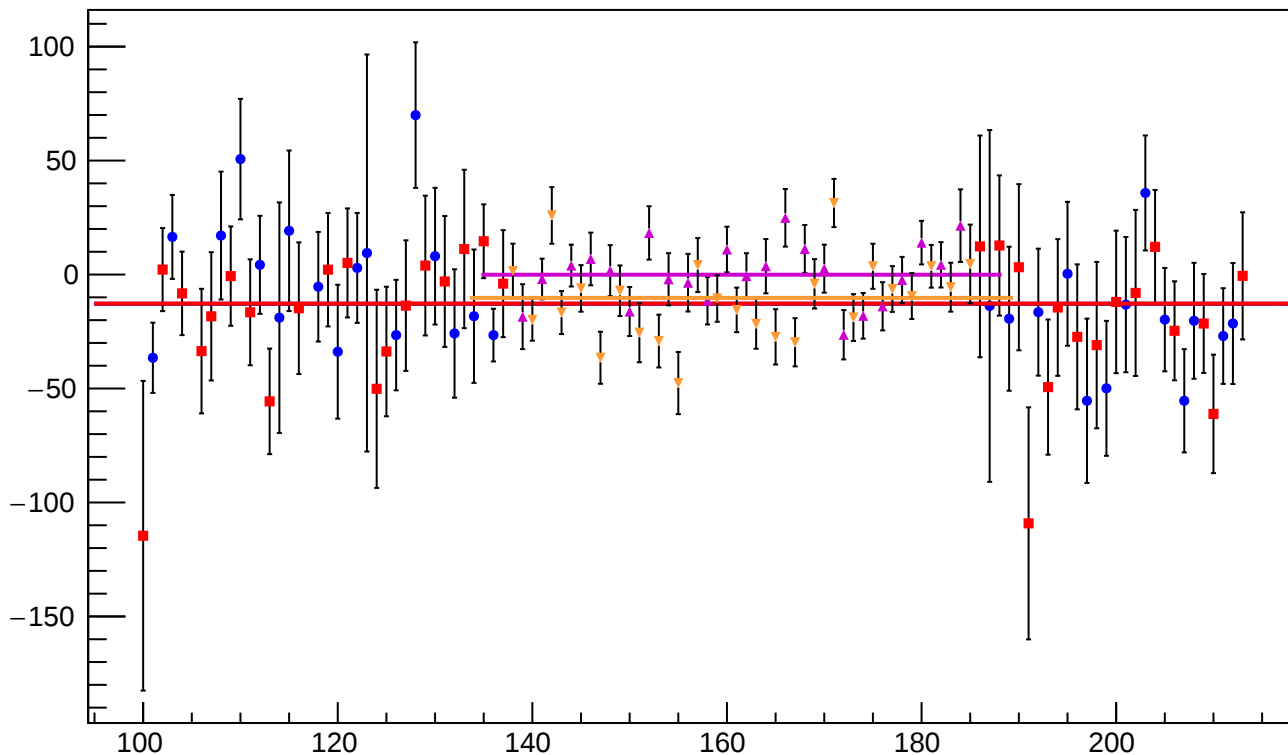


diff_bpm4aX_mean vs Slug



Right In: -12.824 ± 4.523

χ^2/NDF : 34.7/29

Left Out: -10.238 ± 2.170

χ^2/NDF : 58.1/24

Right Out: -12.736 ± 4.569

χ^2/NDF : 25.3/33

Left In: -0.080 ± 2.251

χ^2/NDF : 29.9/22

+ sign -10.722 ± 1.957

χ^2/NDF : 93.1/54

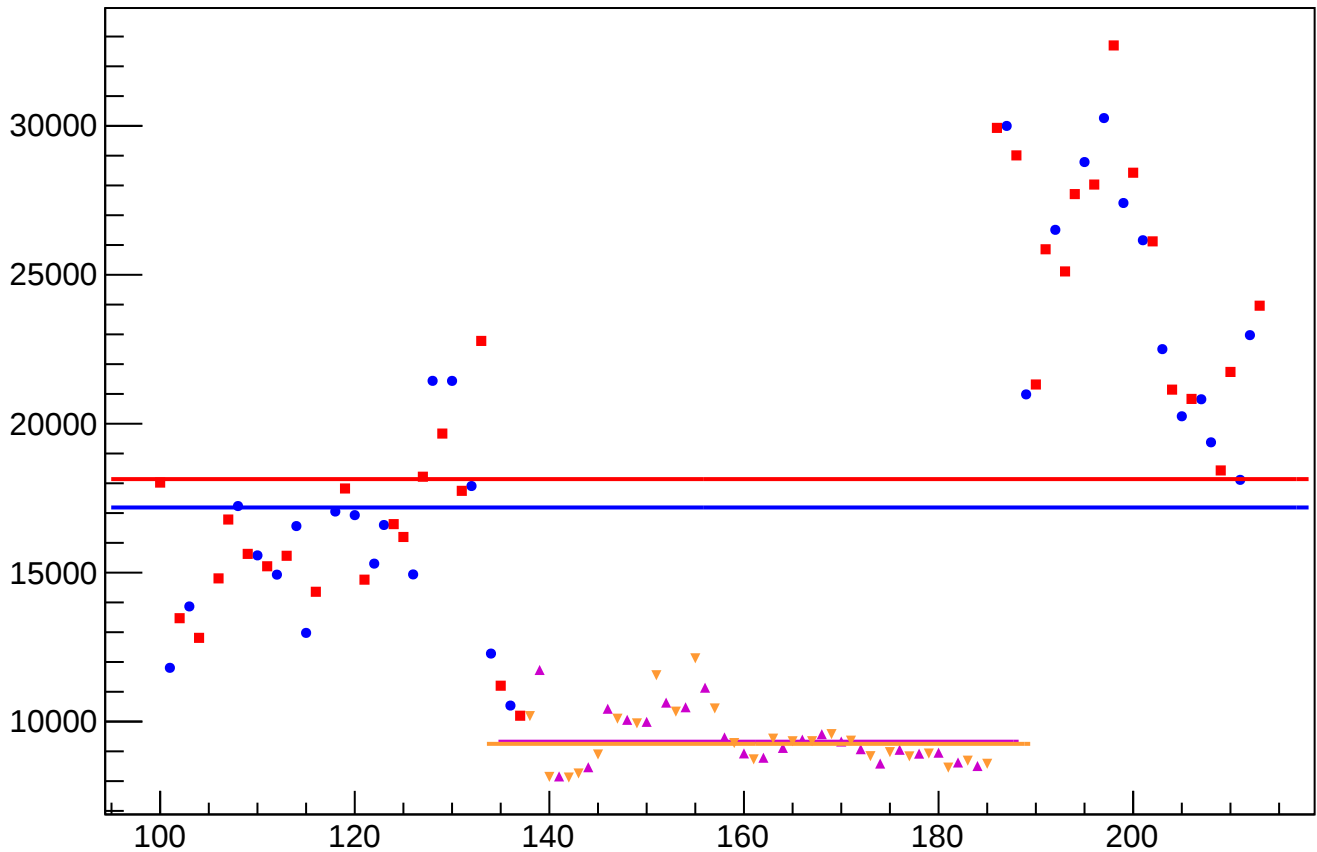
All: -6.765 ± 1.405

χ^2/NDF : 162.9/111

- sign -2.552 ± 2.019

χ^2/NDF : 61.3/56

diff_bpm4aX_rms vs Slug



Right In: 17188.093+/-3.198 χ^2/NDF : 2745598.0/29

Left Out: 9251.811+/-1.535 χ^2/NDF : 332323.3/24

Right Out: 18140.379+/-3.230 χ^2/NDF : 2894505.1/33

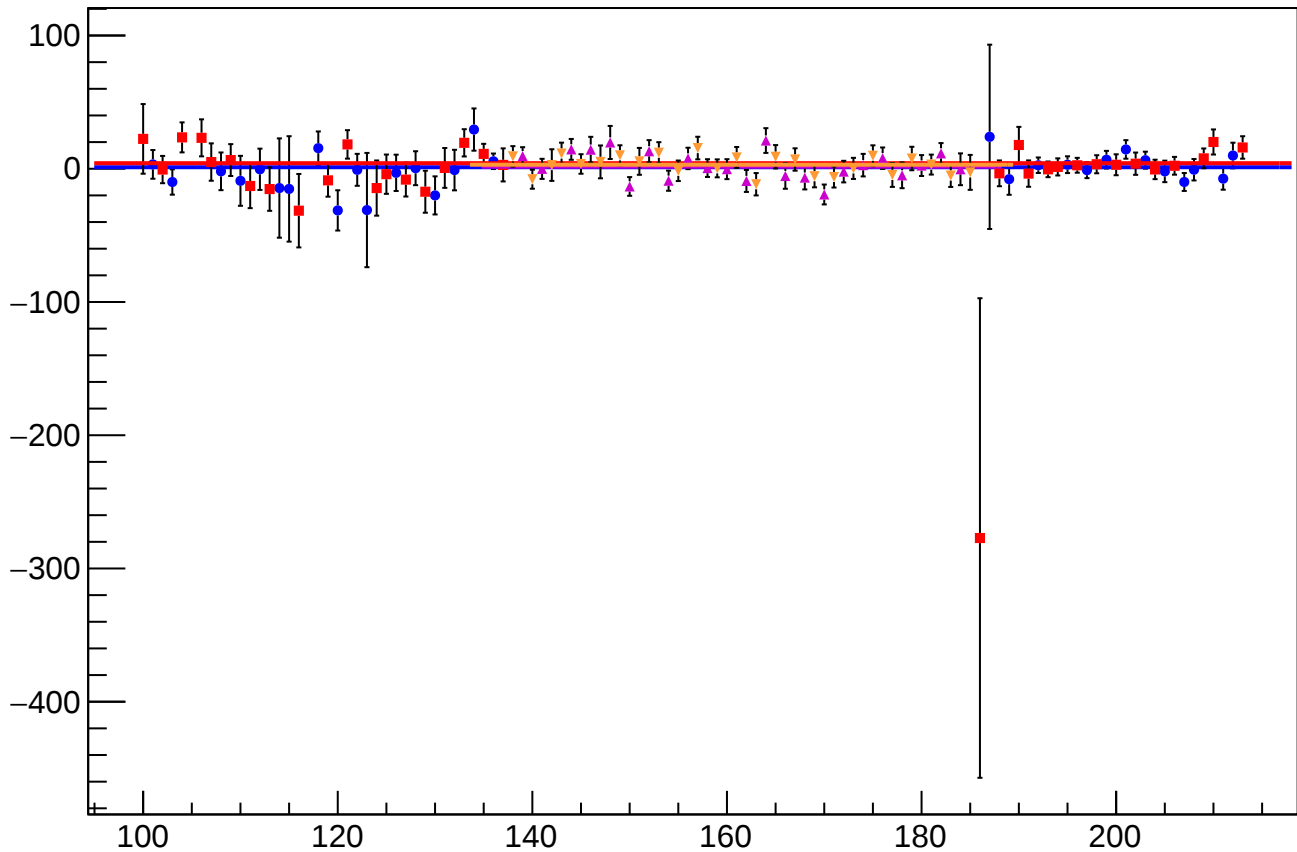
Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

+ sign 10736.886+/-1.384 χ^2/NDF : 8082663.4/54

All: 10886.453+/-0.994 χ^2/NDF : 17270833.6

- sign 11045.678+/-1.428 χ^2/NDF : 9164043.7/56

diff_bpm4aY_mean vs Slug



Right In: 1.138 ± 1.711 χ^2/NDF : 25.5/29

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

Right Out: 4.176 ± 1.657 χ^2/NDF : 30.8/33

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

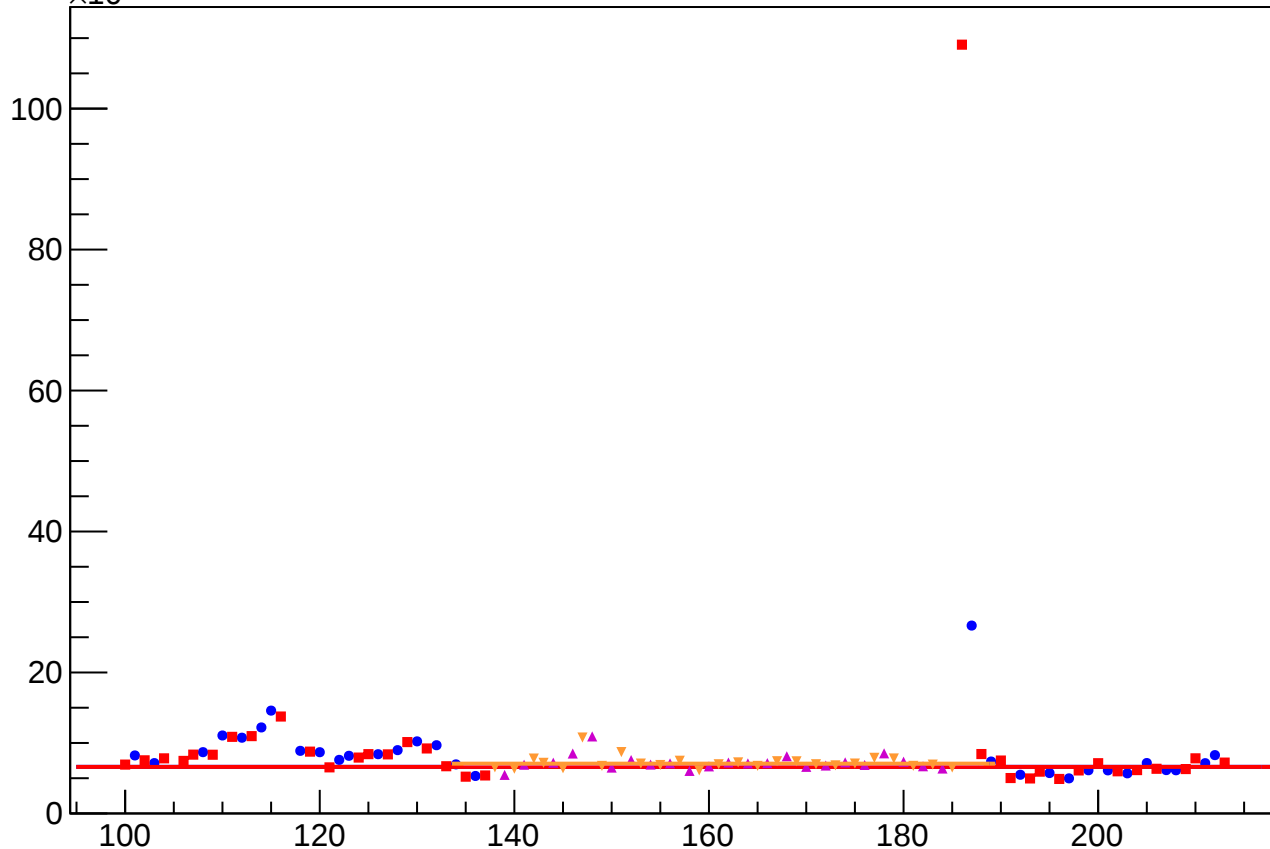
+ sign 2.111 ± 1.192 χ^2/NDF : 44.8/54

All: 2.515 ± 0.841 χ^2/NDF : 112.5/111

- sign 2.917 ± 1.187 χ^2/NDF : 67.5/56

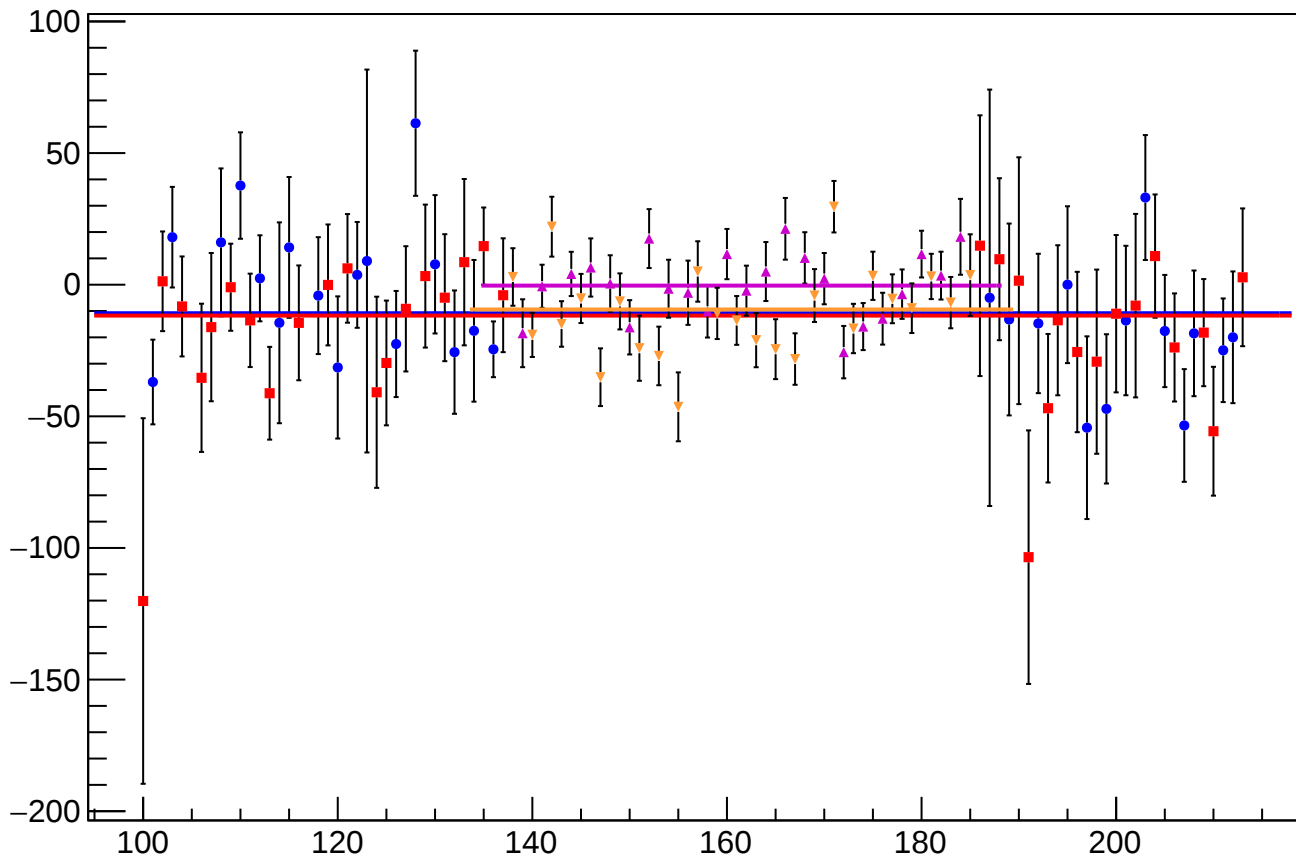
diff_bpm4aY_rms vs Slug

$\times 10^3$



Right In: 6613.376 ± 1.210 $\chi^2/\text{NDF}: 1602487.8/29$ + sign 6845.638 ± 0.843 $\chi^2/\text{NDF}: 2060892.5/54$
 Left Out: 7064.457 ± 1.174 $\chi^2/\text{NDF}: 386814.9/24$ All: 6824.751 ± 0.595 $\chi^2/\text{NDF}: 4798258.7/11$
 Right Out: 6604.575 ± 1.172 $\chi^2/\text{NDF}: 2151264.8/33$ - sign 6804.009 ± 0.840 $\chi^2/\text{NDF}: 2736141.4/56$
 Left In: 7014.572 ± 1.204 $\chi^2/\text{NDF}: 525313.7/22$

diff_bpm4eX_mean vs Slug



Right In: -10.839 ± 4.137 χ^2/NDF : 35.9/29

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

Right Out: -11.735 ± 4.142 χ^2/NDF : 24.8/33

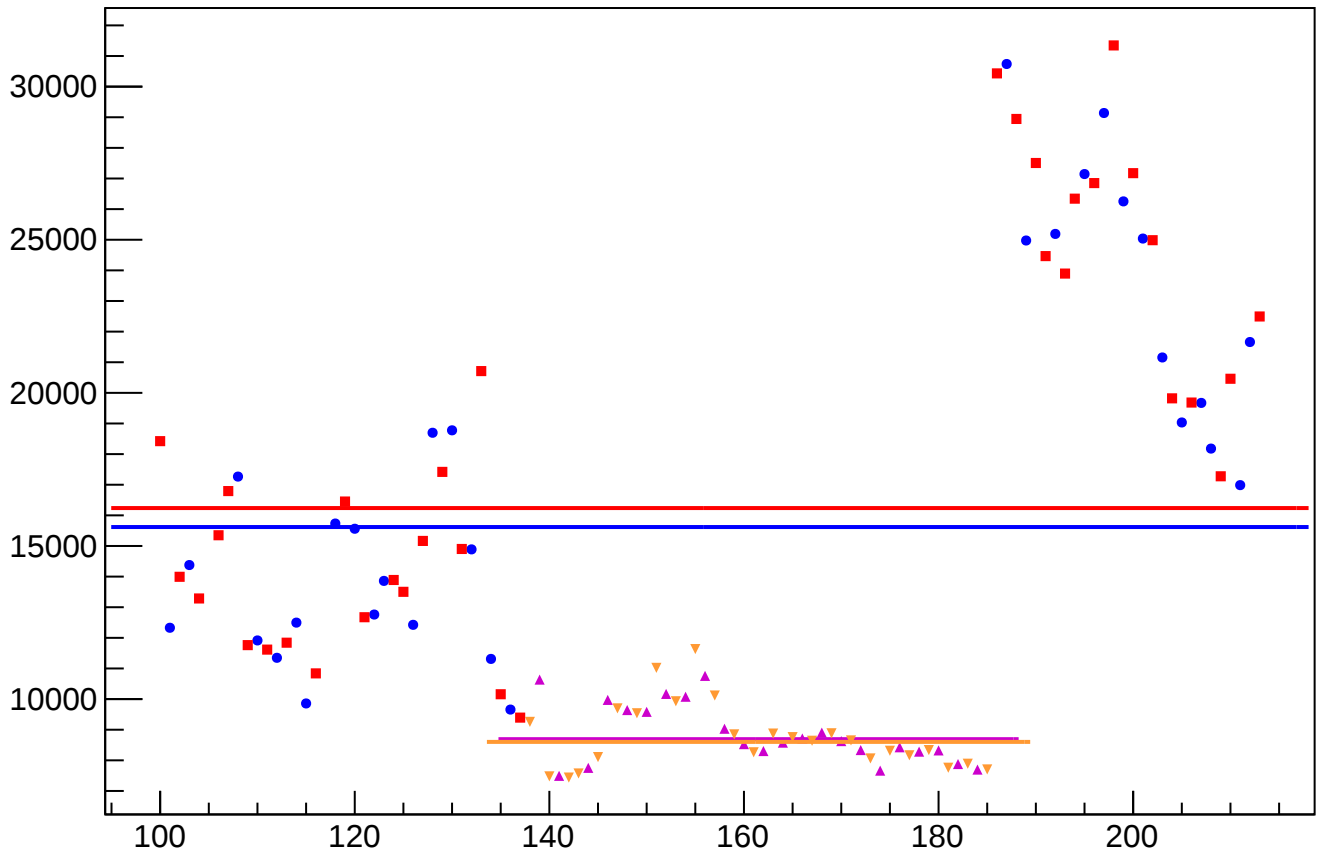
Left In: -0.344 ± 2.100 χ^2/NDF : 29.9/22

+ sign -9.686 ± 1.816 χ^2/NDF : 94.7/54

All: -6.289 ± 1.304 χ^2/NDF : 162.6/111

- sign -2.674 ± 1.873 χ^2/NDF : 60.7/56

diff_bpm4eX_rms vs Slug



Right In: 15618.602+/-2.925 χ^2/NDF : 3193234.7/29

Left Out: 8602.220+/-1.429 χ^2/NDF :438805.2/24

+ sign 9953.967+/-1.284 χ^2/NDF : 8276215.3/54

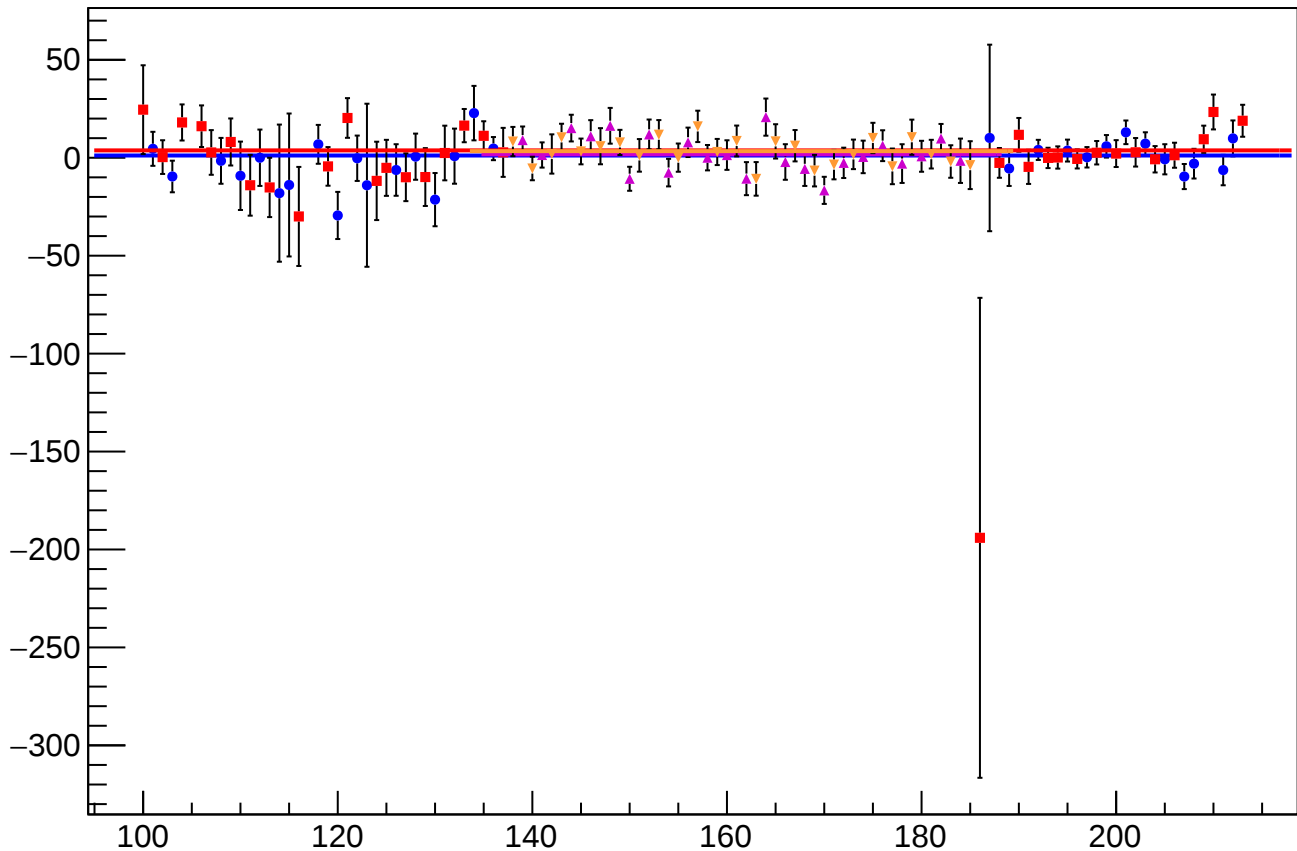
Right Out: 16238.147+/-2.929 χ^2/NDF : 3672843.2/33

All: 10090.037+/-0.922 χ^2/NDF : 17618395.0

Left In: 8691.203+/-1.485 χ^2/NDF :365254.6/22

- sign 10234.858+/-1.325 χ^2/NDF : 9318998.2/56

diff_bpm4eY_mean vs Slug



Right In: 1.149 ± 1.540 χ^2/NDF : 27.3/29

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

Right Out: 3.764 ± 1.474 χ^2/NDF : 35.8/33

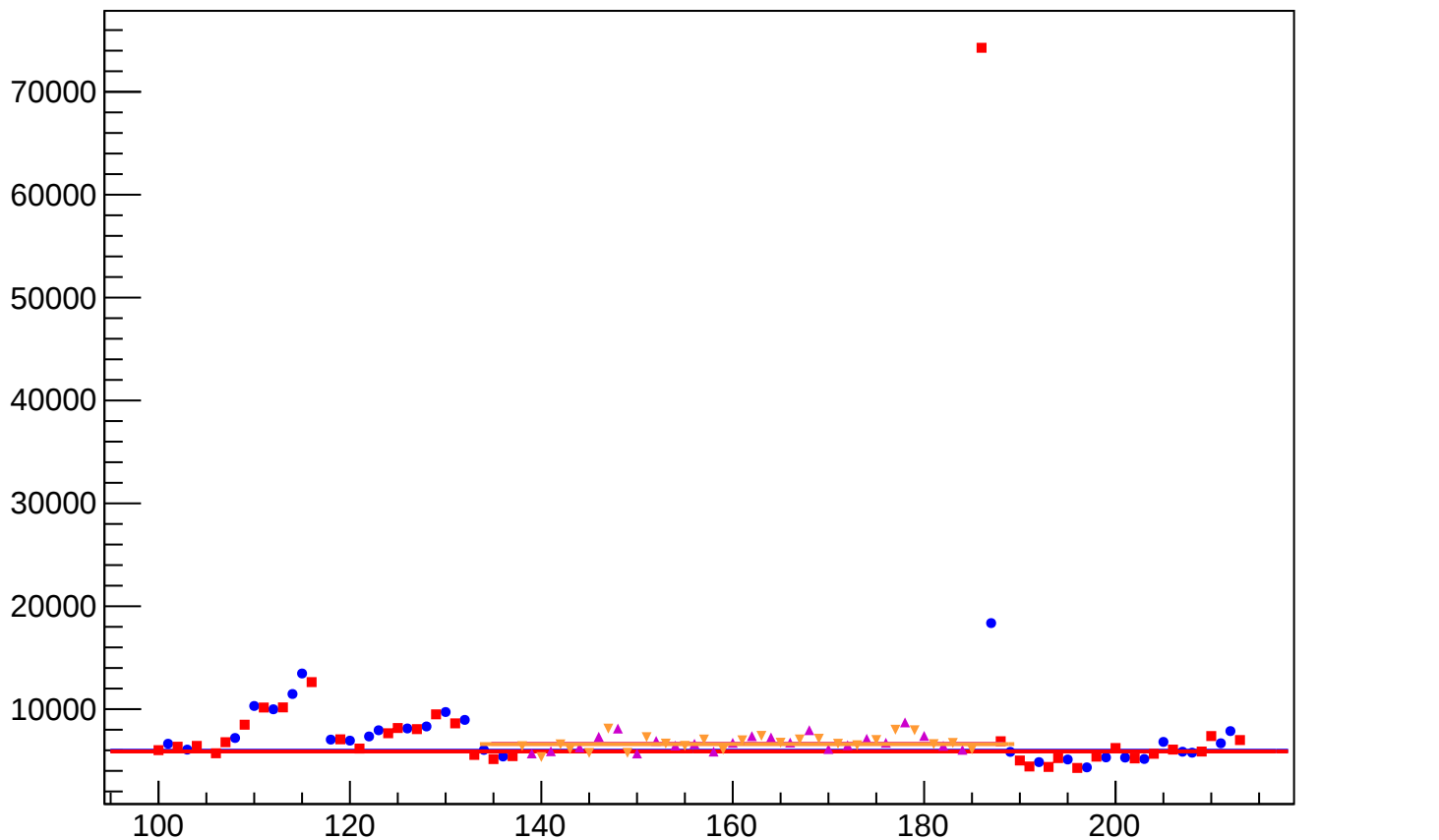
Left In: 1.756 ± 1.607 χ^2/NDF : 33.5/22

+ sign 2.253 ± 1.093 χ^2/NDF : 45.5/54

All: 2.551 ± 0.770 χ^2/NDF : 115.8/111

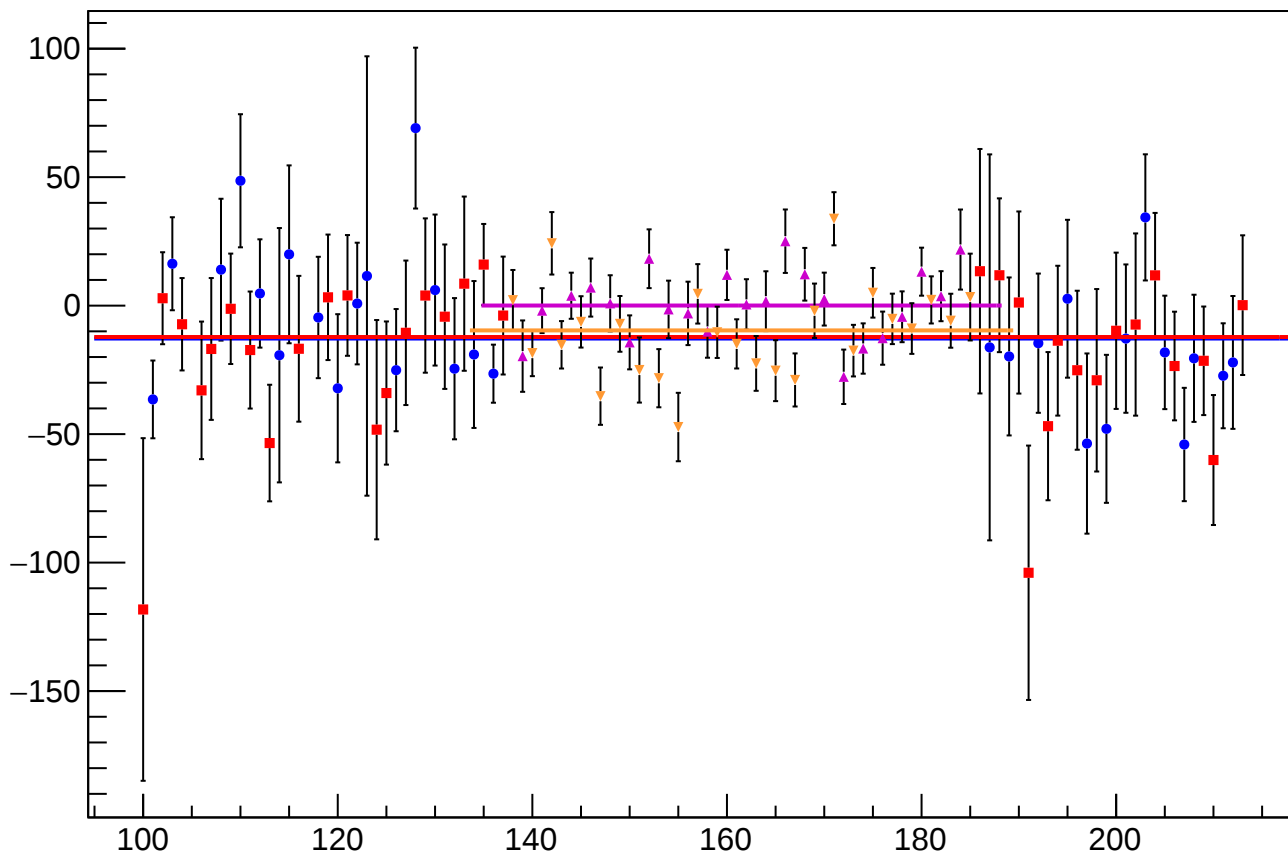
- sign 2.847 ± 1.086 χ^2/NDF : 70.1/56

diff_bpm4eY_rms vs Slug



Right In: 5958.491+/-1.089	χ^2/NDF : 1603176.5/29	+ sign 6278.659+/-0.773	χ^2/NDF : 2172807.4/54
Left Out: 6603.953+/-1.097	χ^2/NDF : 395247.5/24	All: 6254.515+/-0.545	χ^2/NDF : 5058386.3/11
Right Out: 5888.649+/-1.042	χ^2/NDF : 2232452.4/33	- sign 6230.664+/-0.768	χ^2/NDF : 2883638.6/56
Left In: 6637.155+/-1.136	χ^2/NDF : 415547.5/22		

diff_bpm4acX_mean vs Slug



Right In: -12.800 ± 4.422 χ^2/NDF : 34.5/29

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

Right Out: -12.214 ± 4.467 χ^2/NDF : 25.5/33

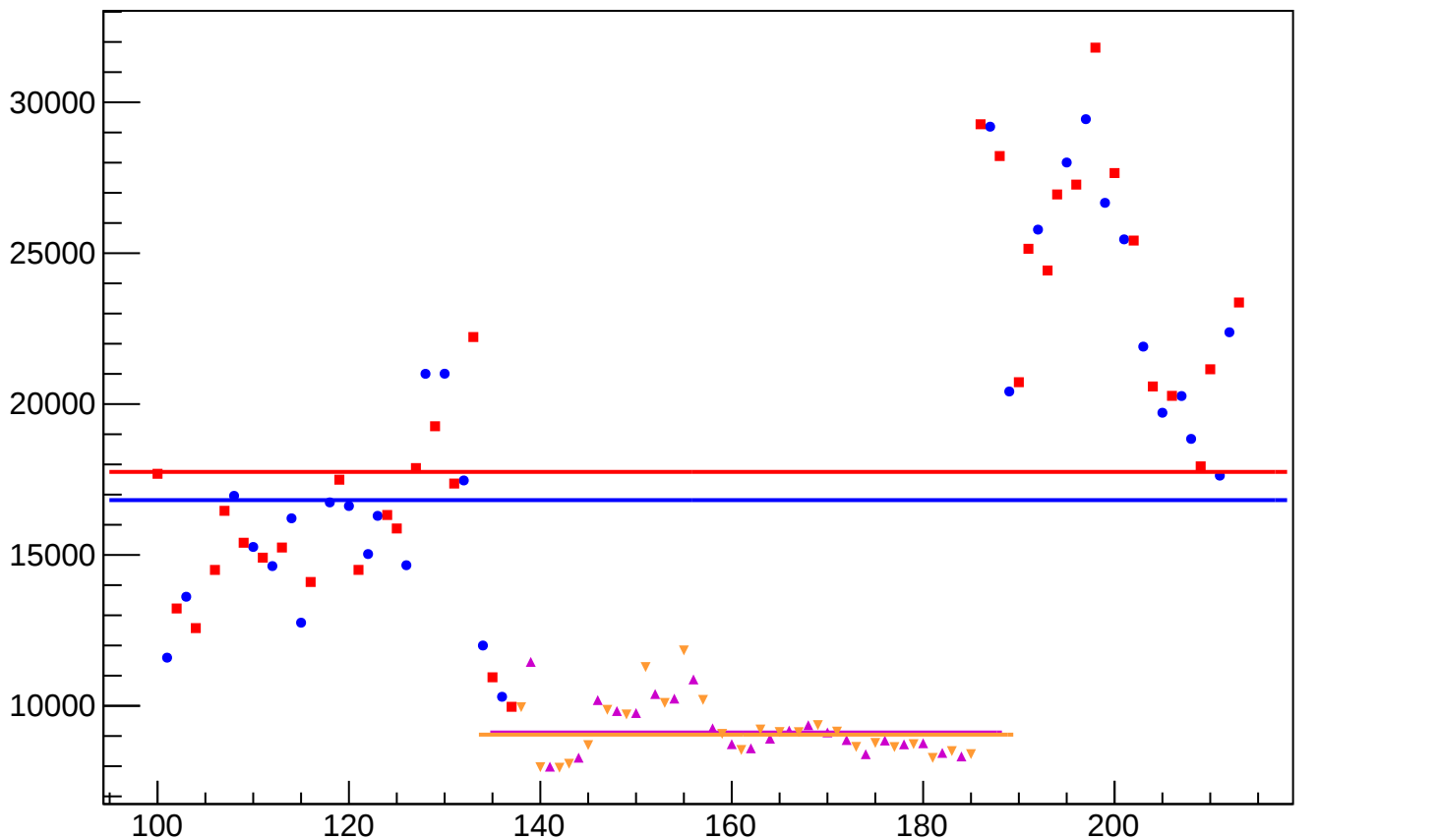
Left In: 0.042 ± 2.200 χ^2/NDF : 30.8/22

+ sign -10.231 ± 1.913 χ^2/NDF : 94.9/54

All: -6.414 ± 1.374 χ^2/NDF : 165.4/111

- sign -2.350 ± 1.974 χ^2/NDF : 62.3/56

diff_bpm4acX_rms vs Slug



Right In: 16816.995 ± 3.127 $\chi^2/\text{NDF}: 2701824.7/29$

Left Out: 9045.871 ± 1.500 $\chi^2/\text{NDF}: 328508.5/24$

Right Out: 17752.563 ± 3.159 $\chi^2/\text{NDF}: 2843327.8/33$

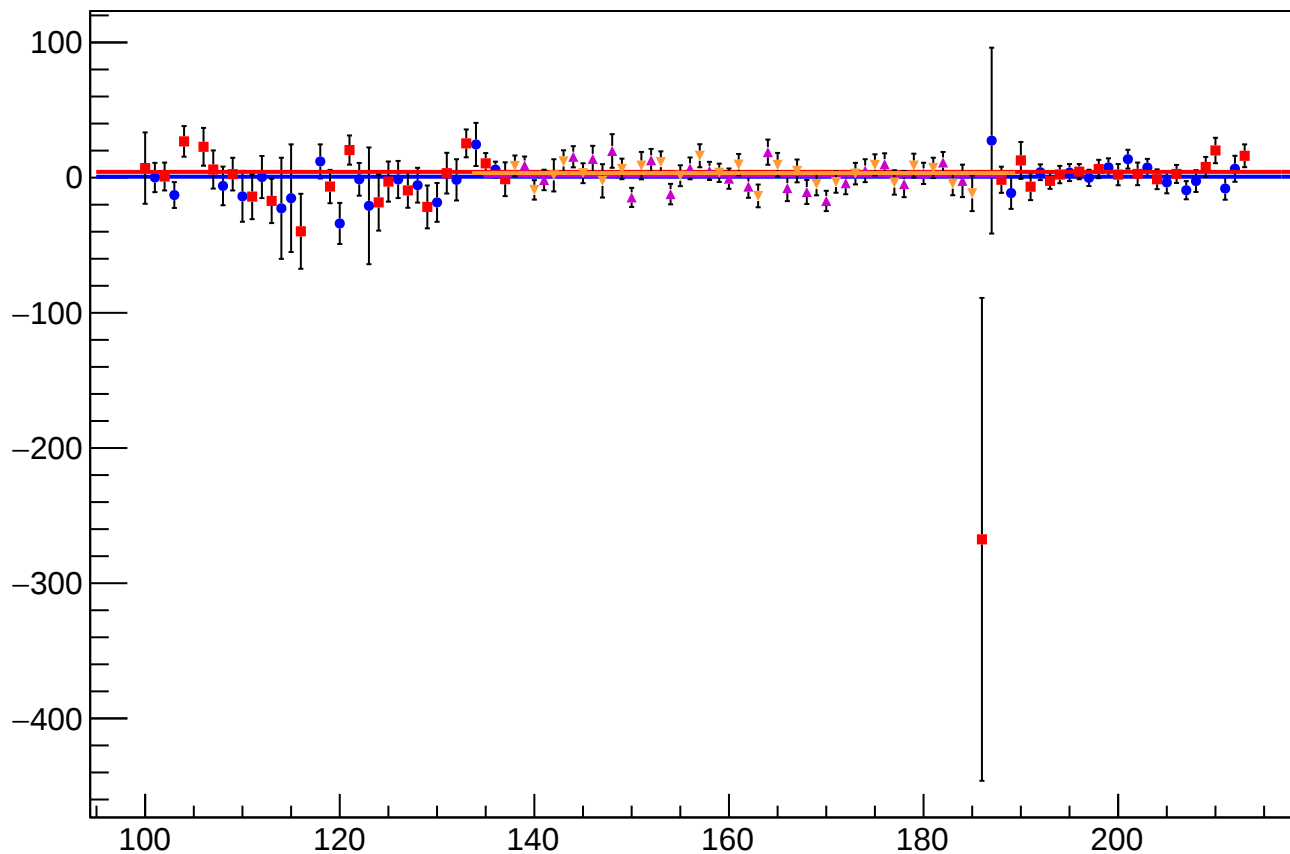
Left In: 9115.817 ± 1.556 $\chi^2/\text{NDF}: 272471.8/22$

+ sign 10500.009 ± 1.353 $\chi^2/\text{NDF}: 8050703.8/54$

All: 10646.198 ± 0.971 $\chi^2/\text{NDF}: 17207043.3/110$

- sign 10801.826 ± 1.396 $\chi^2/\text{NDF}: 9132225.0/56$

diff_bpm4acY_mean vs Slug



Right In: 0.679 ± 1.716 χ^2/NDF : 26.3/29

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

Right Out: 4.262 ± 1.663 χ^2/NDF : 36.1/33

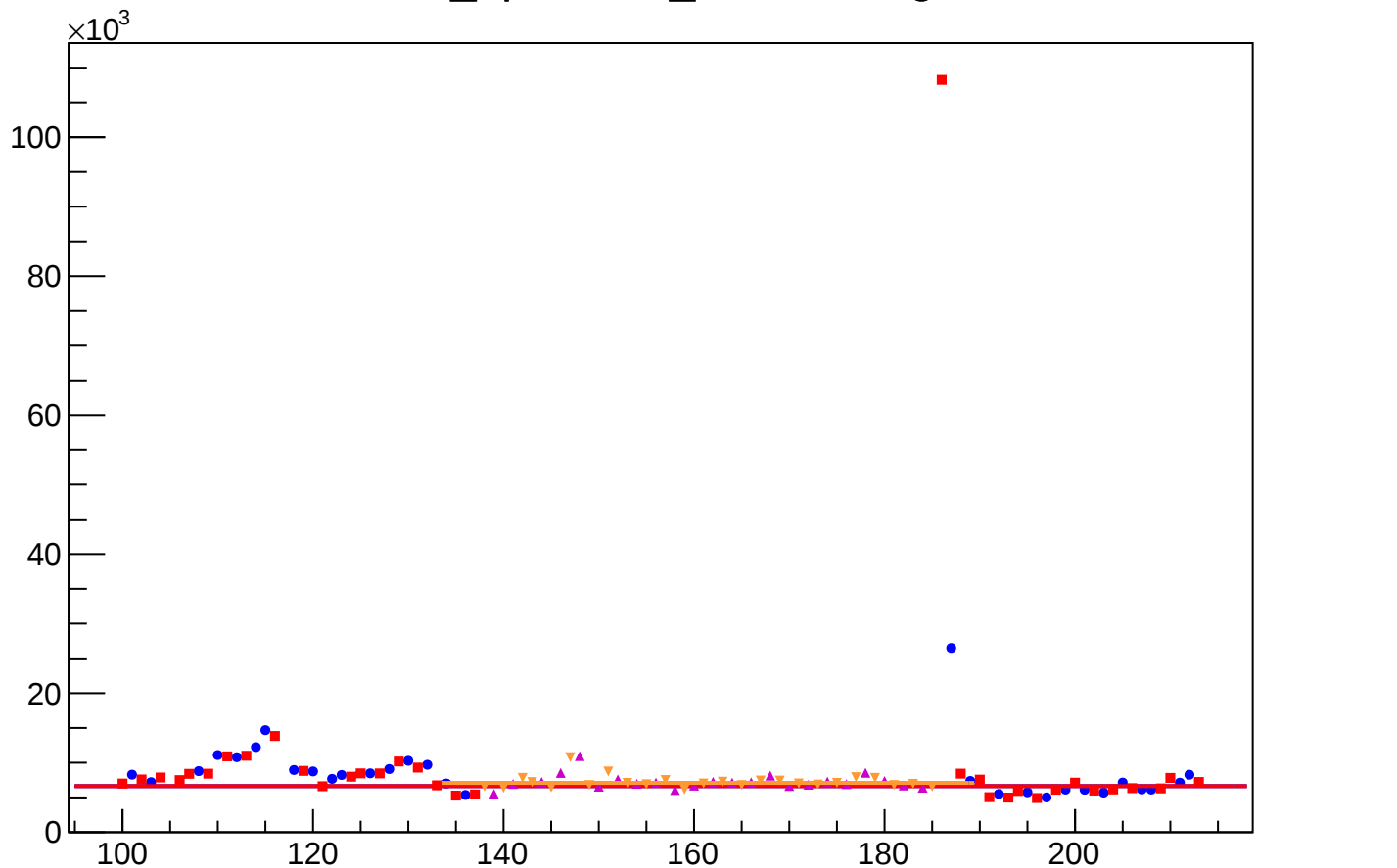
Left In: 1.479 ± 1.710 χ^2/NDF : 36.7/22

+ sign 2.072 ± 1.196 χ^2/NDF : 47.0/54

All: 2.492 ± 0.844 χ^2/NDF : 121.4/111

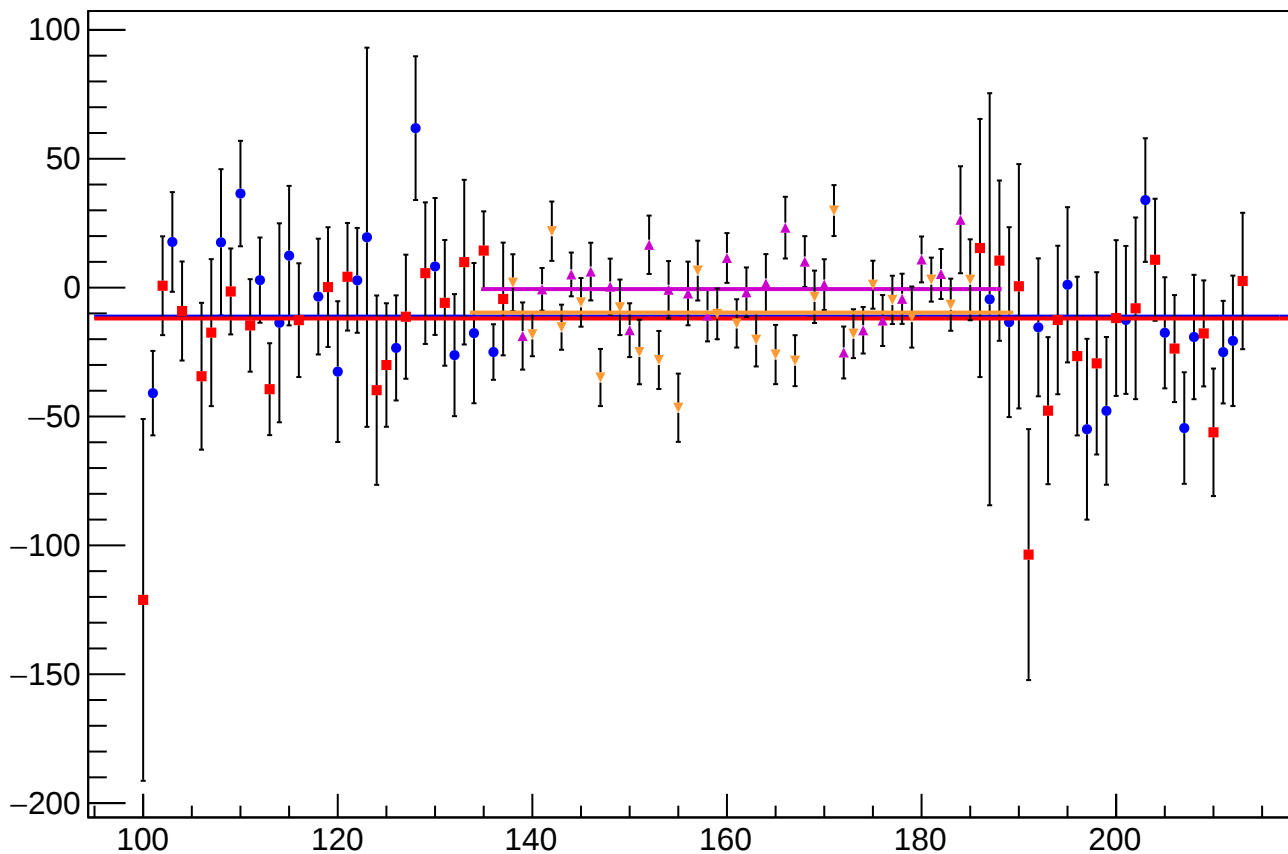
- sign 2.910 ± 1.192 χ^2/NDF : 74.2/56

diff_bpm4acY_rms vs Slug



Right In: 6634.017 $\pm$ 1.213	χ^2/NDF : 1609149.4/29	+ sign 6871.777 $\pm$ 0.846	χ^2/NDF : 2065742.3/54
Left Out: 7096.350 $\pm$ 1.179	χ^2/NDF : 381942.1/24	All: 6852.019 $\pm$ 0.597	χ^2/NDF : 4800384.3/11
Right Out: 6629.228 $\pm$ 1.176	χ^2/NDF : 2154695.4/33	- sign 6832.386 $\pm$ 0.843	χ^2/NDF : 2733553.8/56
Left In: 7047.269 $\pm$ 1.209	χ^2/NDF : 517433.5/22		

diff_bpm4ecX_mean vs Slug



Right In: -11.247 ± 4.189 χ^2/NDF : 36.5/29

Left Out: -9.670 ± 2.061 χ^2/NDF : 57.9/24

Right Out: -11.972 ± 4.197 χ^2/NDF : 23.7/33

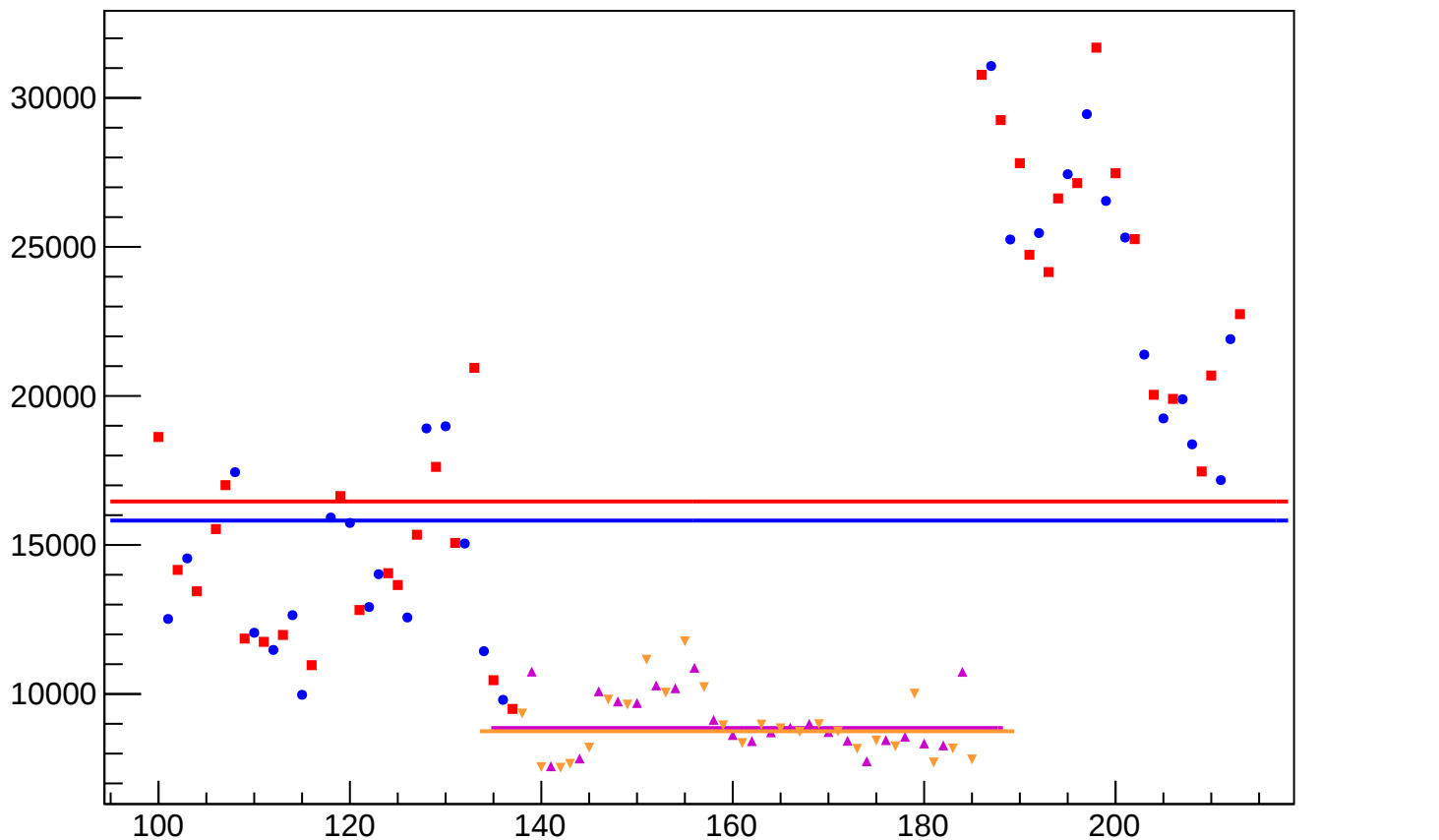
Left In: -0.564 ± 2.144 χ^2/NDF : 29.7/22

+ sign -9.977 ± 1.849 χ^2/NDF : 94.5/54

All: -6.563 ± 1.328 χ^2/NDF : 160.9/111

- sign -2.924 ± 1.909 χ^2/NDF : 59.3/56

diff_bpm4ecX_rms vs Slug



Right In: 15818.647+/-2.962 χ^2/NDF : 3170903.5/29

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

Right Out: 16459.344+/-2.968 χ^2/NDF : 3634504.1/33

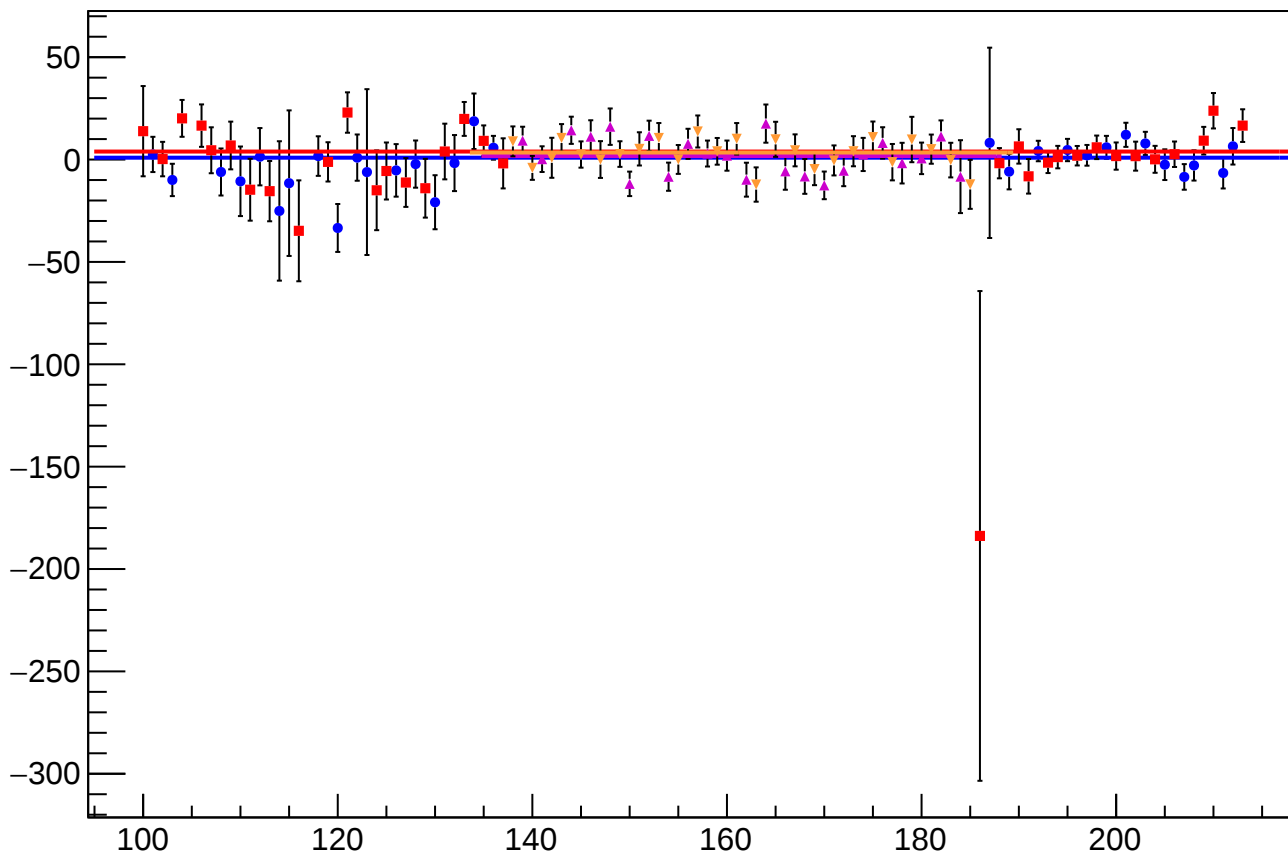
Left In: 8857.329+/-1.516 χ^2/NDF : 361778.8/22

+ sign 10127.301+/-1.307 χ^2/NDF : 8218704.7/54

All: 10273.918+/-0.939 χ^2/NDF : 17444968.1

- sign 10430.205+/-1.350 χ^2/NDF : 9200284.9/56

diff_bpm4ecY_mean vs Slug



Right In: 0.913 ± 1.502 χ^2/NDF : 29.2/29

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

Right Out: 3.910 ± 1.437 χ^2/NDF : 39.8/33

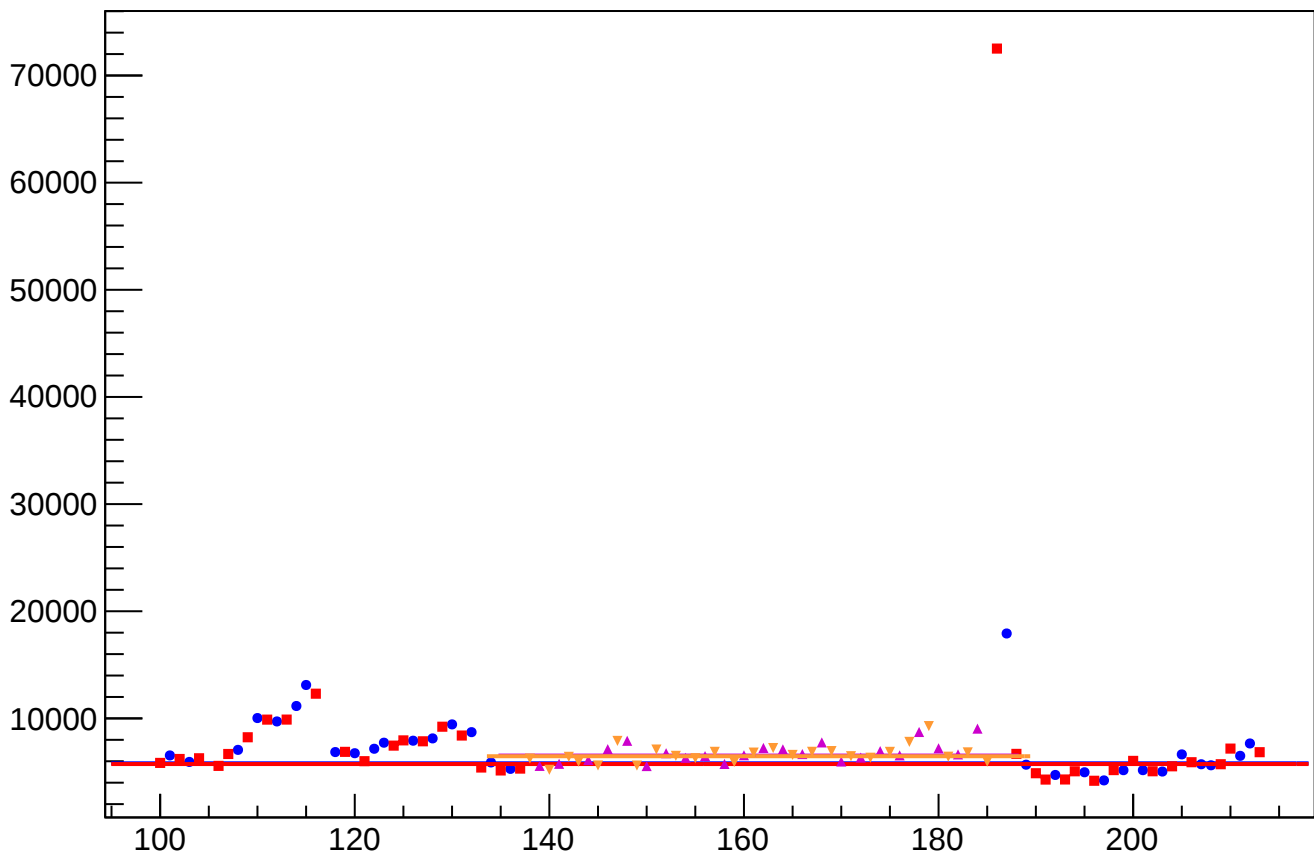
Left In: 1.734 ± 1.586 χ^2/NDF : 33.6/22

+ sign 2.153 ± 1.070 χ^2/NDF : 46.8/54

All: 2.543 ± 0.755 χ^2/NDF : 121.5/111

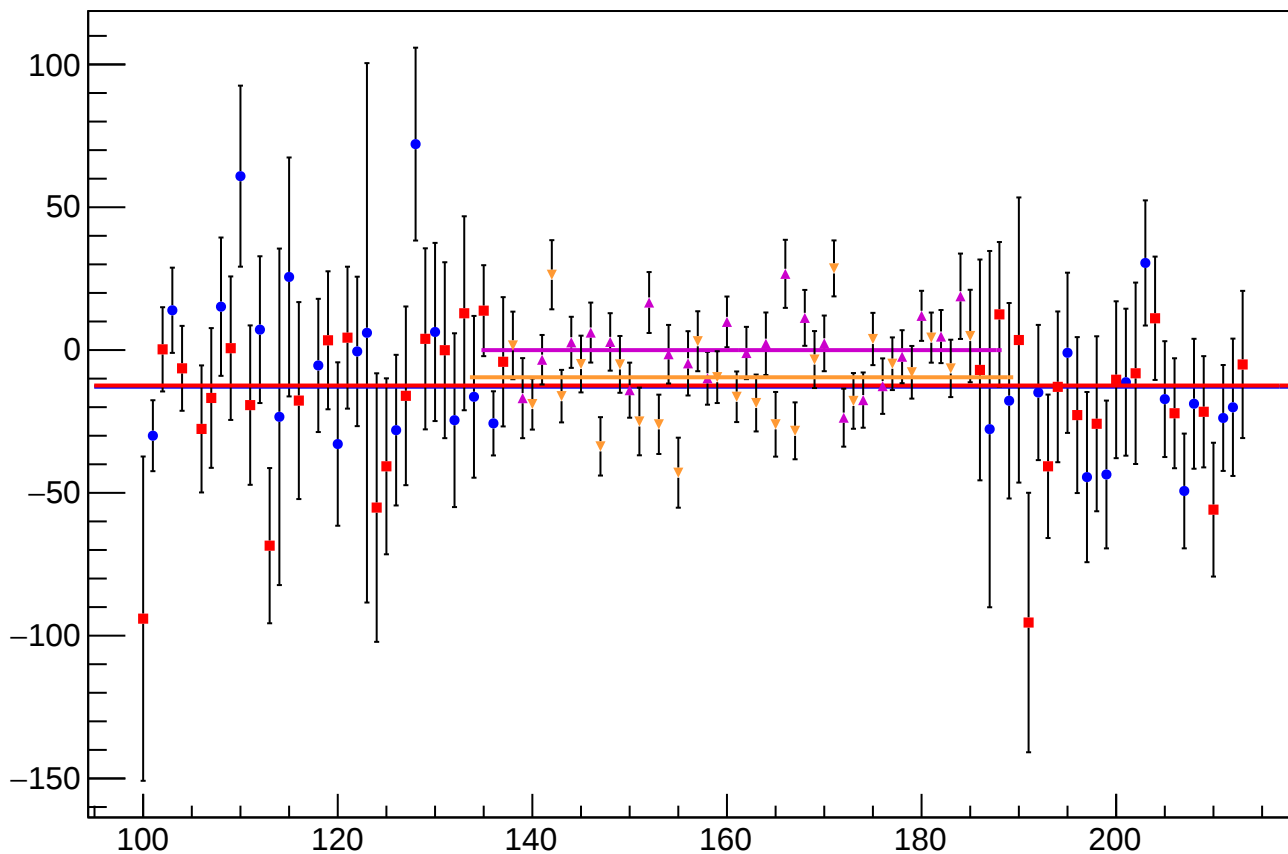
- sign 2.929 ± 1.065 χ^2/NDF : 74.5/56

diff_bpm4ecY_rms vs Slug



Right In: 5809.011+/-1.062	χ^2/NDF : 1608162.9/29	+ sign 6133.683+/-0.757	χ^2/NDF : 2285397.9/54
Left Out: 6468.872+/-1.079	χ^2/NDF : 487187.3/24	All: 6114.771+/-0.534	χ^2/NDF : 5249088.1/11
Right Out: 5738.923+/-1.016	χ^2/NDF : 2223839.0/33	- sign 6096.046+/-0.753	χ^2/NDF : 2962447.2/56
Left In: 6530.954+/-1.121	χ^2/NDF : 464668.6/22		

diff_bpm1X_mean vs Slug



Right In: -12.835 ± 4.221 χ^2/NDF : 33.3/29

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

Right Out: -12.422 ± 4.282 χ^2/NDF : 25.7/33

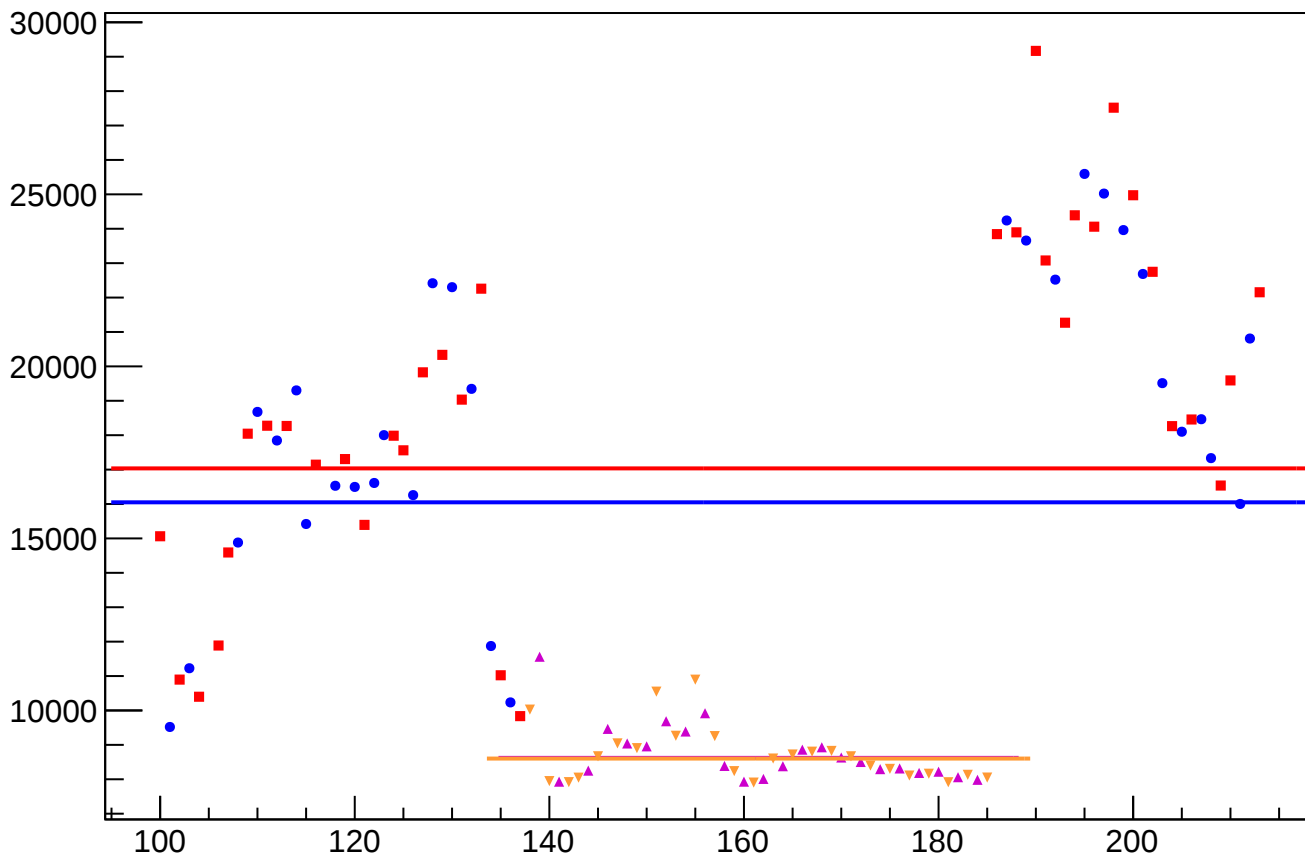
Left In: -0.027 ± 2.080 χ^2/NDF : 29.9/22

+ sign -10.142 ± 1.819 χ^2/NDF : 93.4/54

All: -6.377 ± 1.304 χ^2/NDF : 164.5/111

- sign -2.392 ± 1.871 χ^2/NDF : 62.4/56

diff_bpm1X_rms vs Slug



Right In: 16049.054+/-2.984 χ^2/NDF : 2753959.2/29

Left Out: 8601.926+/-1.425 χ^2/NDF :248903.5/24

Right Out: 17035.156+/-3.028 χ^2/NDF : 2771620.9/33

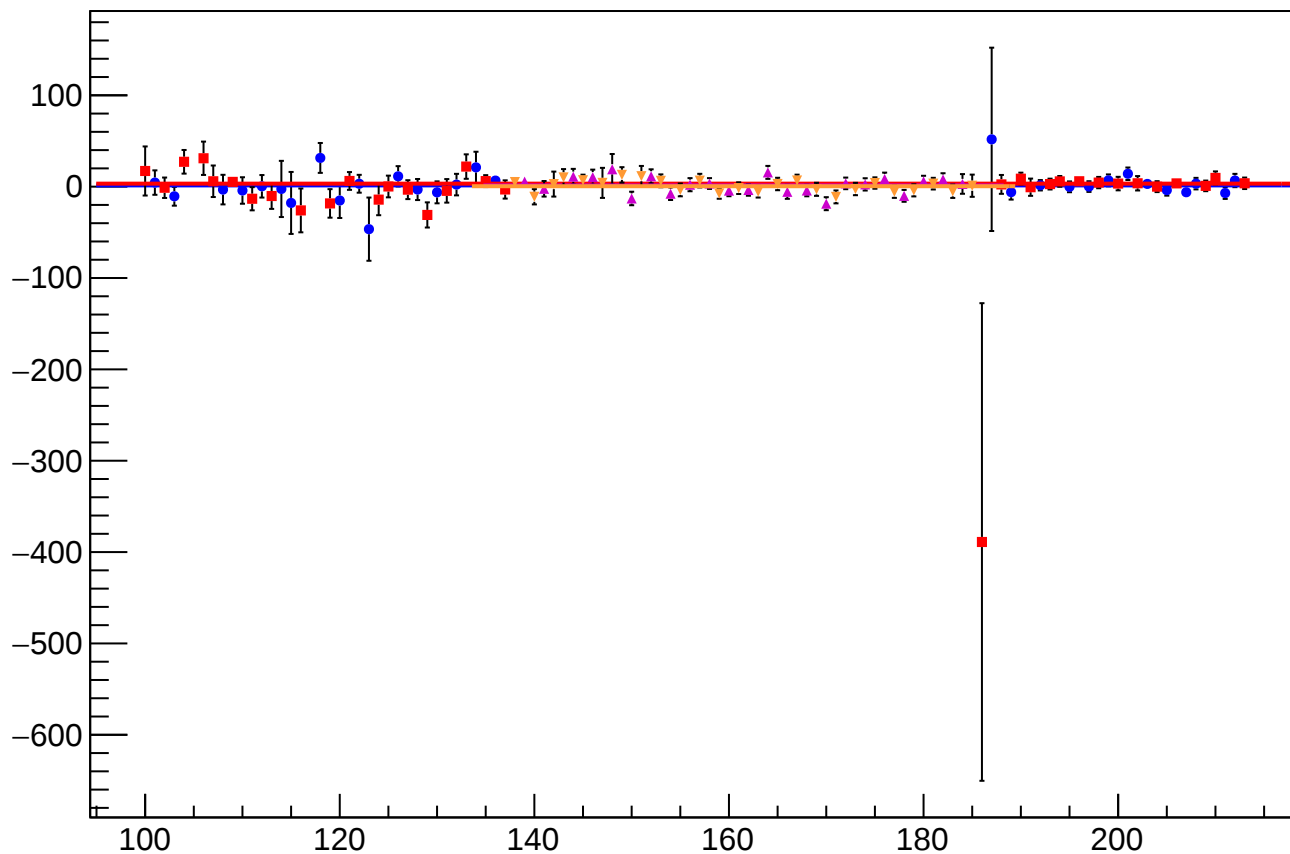
Left In: 8621.975+/-1.471 χ^2/NDF :230824.4/22

+ sign 9984.535+/-1.286 χ^2/NDF : 8073566.1/54

All: 10102.684+/-0.922 χ^2/NDF : 17339401.4

- sign 10227.726+/-1.323 χ^2/NDF : 9248459.4/56

diff_bpm1Y_mean vs Slug



Right In: 1.377 $\pm$ 1.498 χ^2 /NDF: 22.7/29

Left Out: 0.481 $\pm$ 1.419 χ^2 /NDF:19.6/24

Right Out: 3.291 $\pm$ 1.407 χ^2 /NDF: 27.9/33

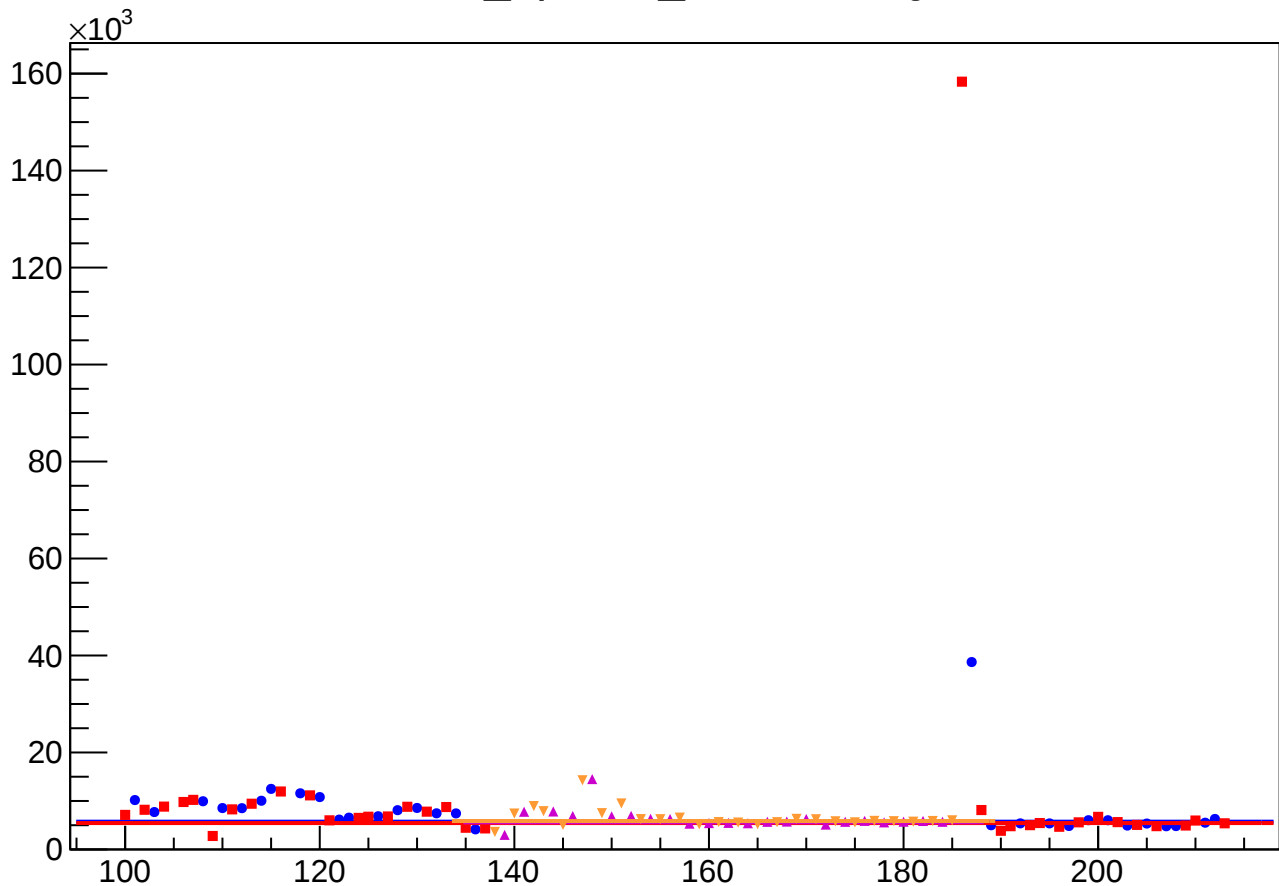
Left In: 1.298 $\pm$ 1.406 χ^2 /NDF:33.0/22

+ sign 0.905 $\pm$ 1.030 χ^2 /NDF: 42.4/54

All: 1.624 $\pm$ 0.716 χ^2 /NDF: 105.3/111

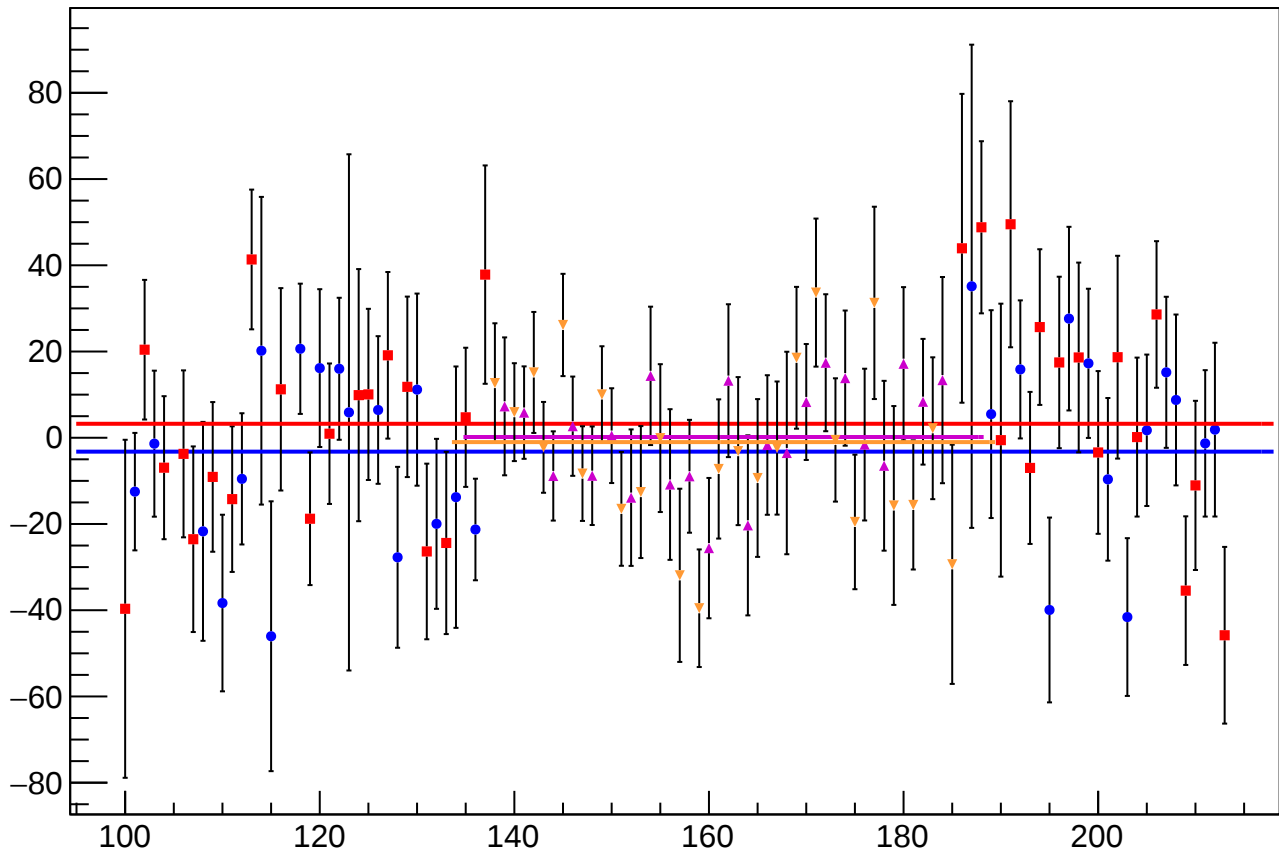
- sign 2.294 $\pm$ 0.994 χ^2 /NDF: 62.0/56

diff_bpm1Y_rms vs Slug



Right In: 5730.720 ± 1.059 $\chi^2/\text{NDF}: 2123557.5/29$ $+ \text{sign } 5798.144 \pm 0.729$ $\chi^2/\text{NDF}: 3822586.0/54$
 Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$ All: 5654.247 ± 0.506 $\chi^2/\text{NDF}: 9458986.9/11$
 Right Out: 5443.458 ± 0.995 $\chi^2/\text{NDF}: 3459402.6/33$ - sign 5520.191 ± 0.703 $\chi^2/\text{NDF}: 5561052.2/56$
 Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

diff_bpm11X_mean vs Slug



Right In: -3.221 ± 3.465 χ^2/NDF : 31.3/29

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

Right Out: 3.242 ± 3.374 χ^2/NDF : 46.5/33

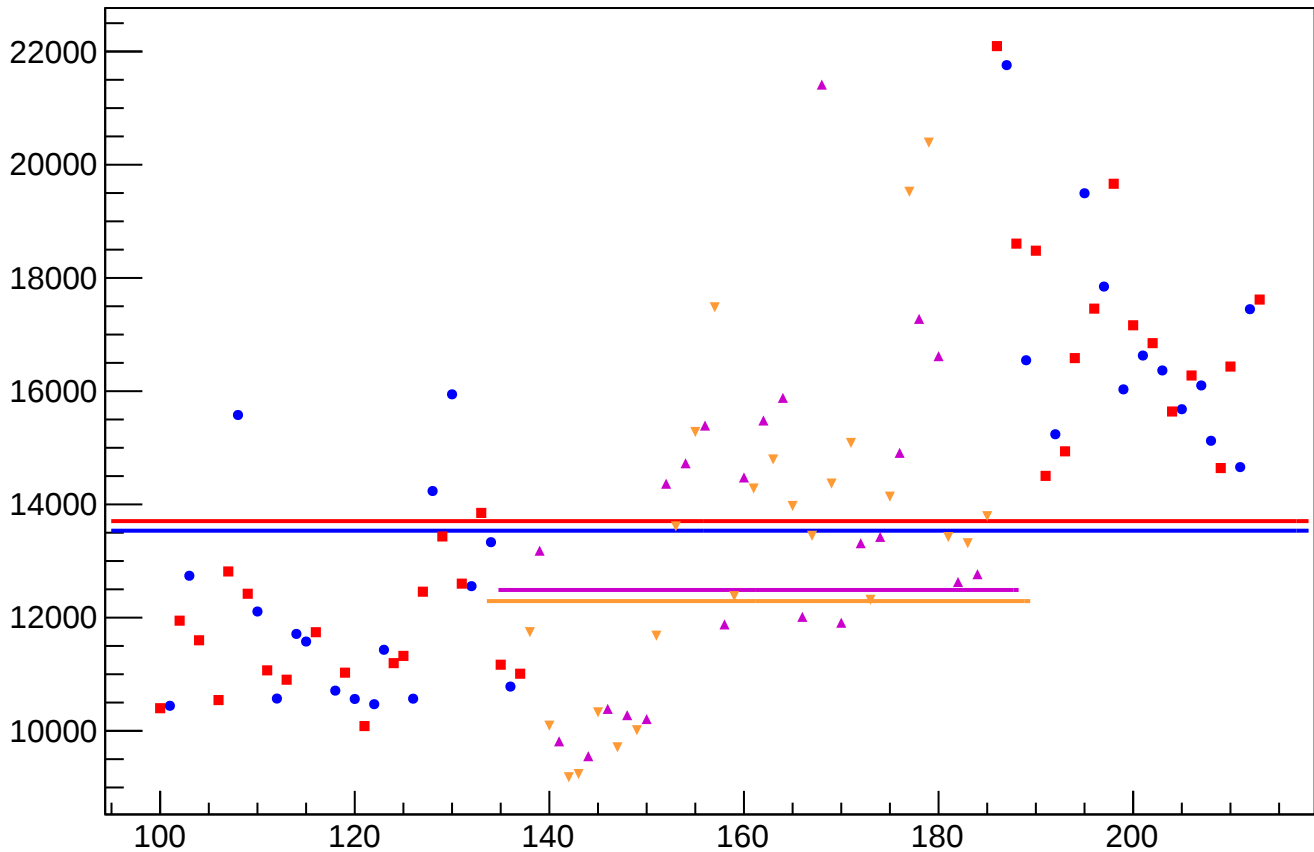
Left In: 0.172 ± 3.067 χ^2/NDF : 12.4/22

+ sign -1.934 ± 2.243 χ^2/NDF : 65.0/54

All: -0.208 ± 1.595 χ^2/NDF : 125.5/111

- sign 1.561 ± 2.270 χ^2/NDF : 59.3/56

diff_bpm11X_rms vs Slug



Right In: 13535.665 $\pm$ 2.450 χ^2 /NDF: 1260260.1/29

Left Out: 12292.583 $\pm$ 2.080 χ^2 /NDF:1502548.3/24

Right Out: 13704.910 $\pm$ 2.386 χ^2 /NDF: 1394084.6/33

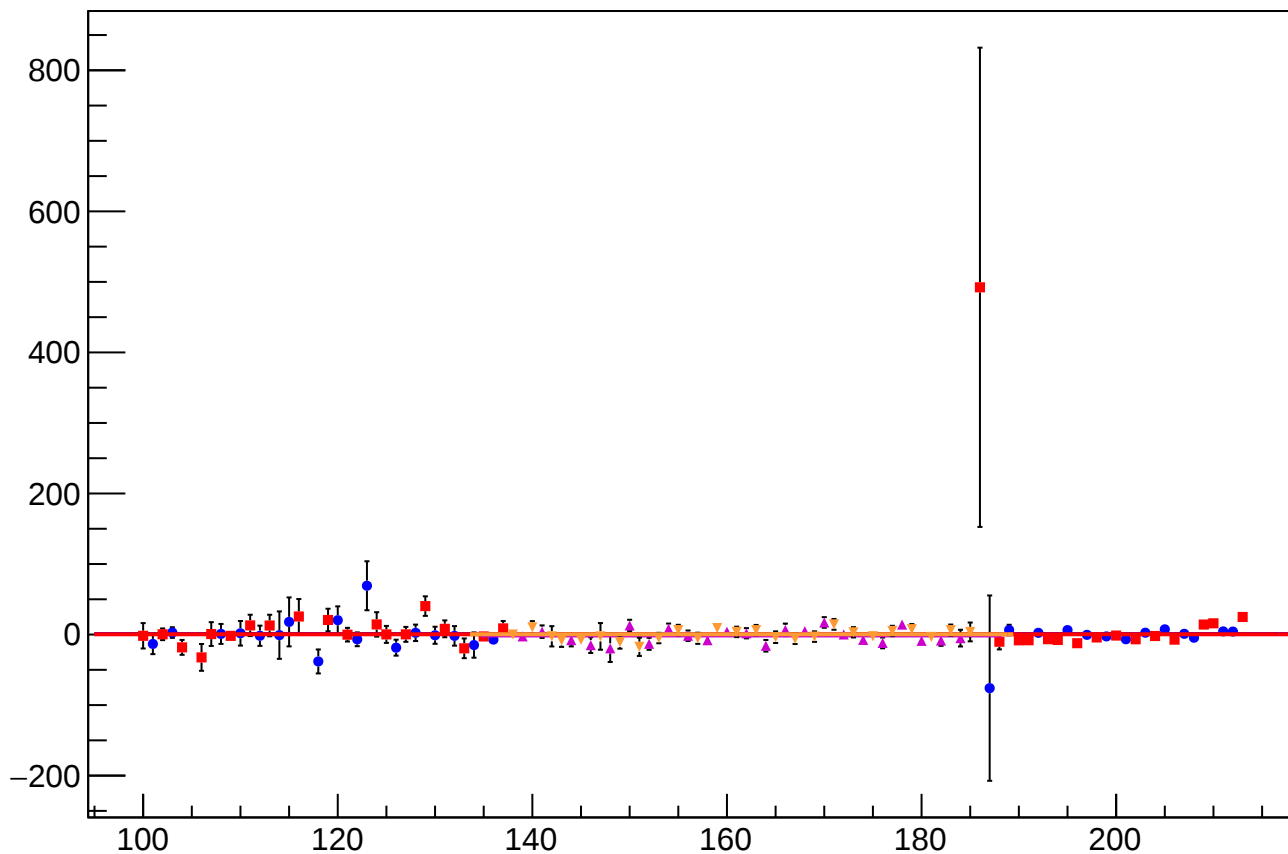
Left In: 12488.821 $\pm$ 2.169 χ^2 /NDF:1354485.4/22

+ sign 12813.197 $\pm$ 1.586 χ^2 /NDF: 2912394.2/54

All: 12924.788 $\pm$ 1.128 χ^2 /NDF: 5813244.9/1

- sign 13039.089 $\pm$ 1.605 χ^2 /NDF: 2890825.6/56

diff_bpm11Y_mean vs Slug



Right In: 0.750 ± 1.226 χ^2/NDF : 28.8/29

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

Right Out: 0.422 ± 1.198 χ^2/NDF : 90.2/33

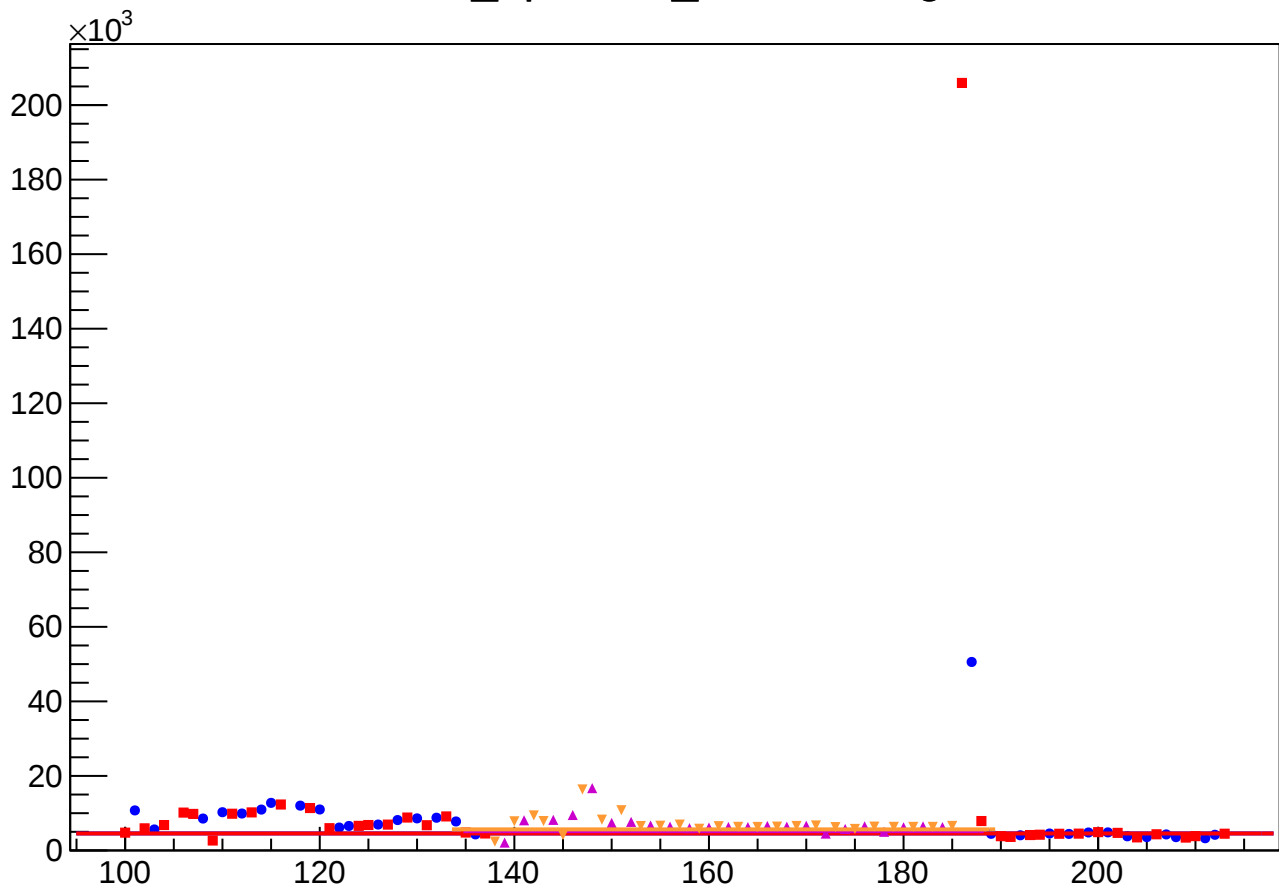
Left In: -1.278 ± 1.386 χ^2/NDF : 34.0/22

+ sign 0.607 ± 0.932 χ^2/NDF : 48.1/54

All: 0.138 ± 0.650 χ^2/NDF : 173.7/111

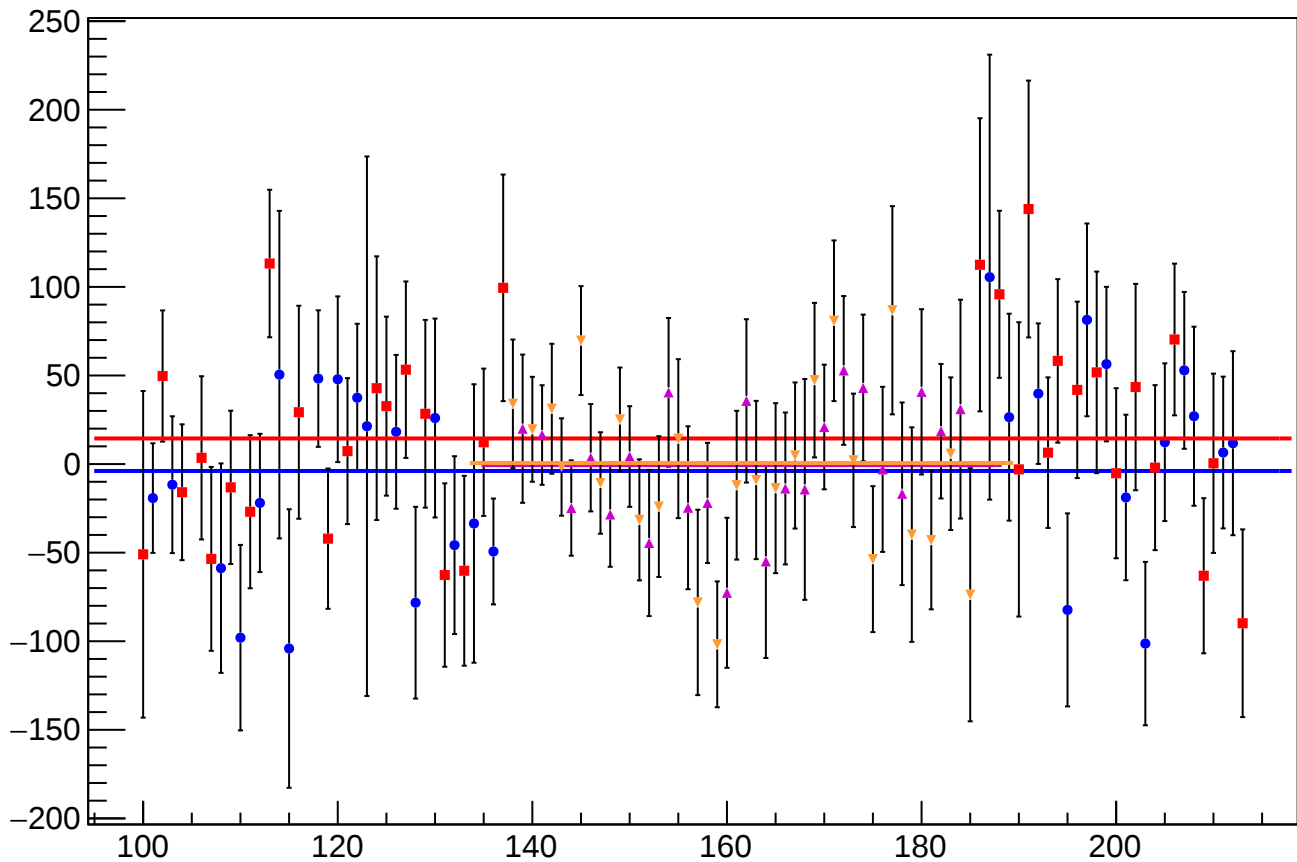
- sign -0.306 ± 0.906 χ^2/NDF : 125.1/56

diff_bpm11Y_rms vs Slug



Right In: 4570.399 ± 0.867 $\chi^2/\text{NDF}: 3459388.7/29$ + sign 5028.570 ± 0.659 $\chi^2/\text{NDF}: 8244837.0/54$
 Left Out: 5655.639 ± 1.014 $\chi^2/\text{NDF}: 4124124.3/24$ All: 4923.253 ± 0.459 $\chi^2/\text{NDF}: 17830955.2/1$
 Right Out: 4556.745 ± 0.847 $\chi^2/\text{NDF}: 3954338.6/33$ - sign 4823.684 ± 0.641 $\chi^2/\text{NDF}: 9536450.2/56$
 Left In: 5180.743 ± 0.980 $\chi^2/\text{NDF}: 5350053.6/22$

diff_bpm12X_mean vs Slug



Right In: -3.900 ± 8.651 χ^2/NDF : 31.8/29

Left Out: 0.580 ± 7.691 χ^2/NDF : 31.0/24

Right Out: 14.464 ± 8.431 χ^2/NDF : 38.4/33

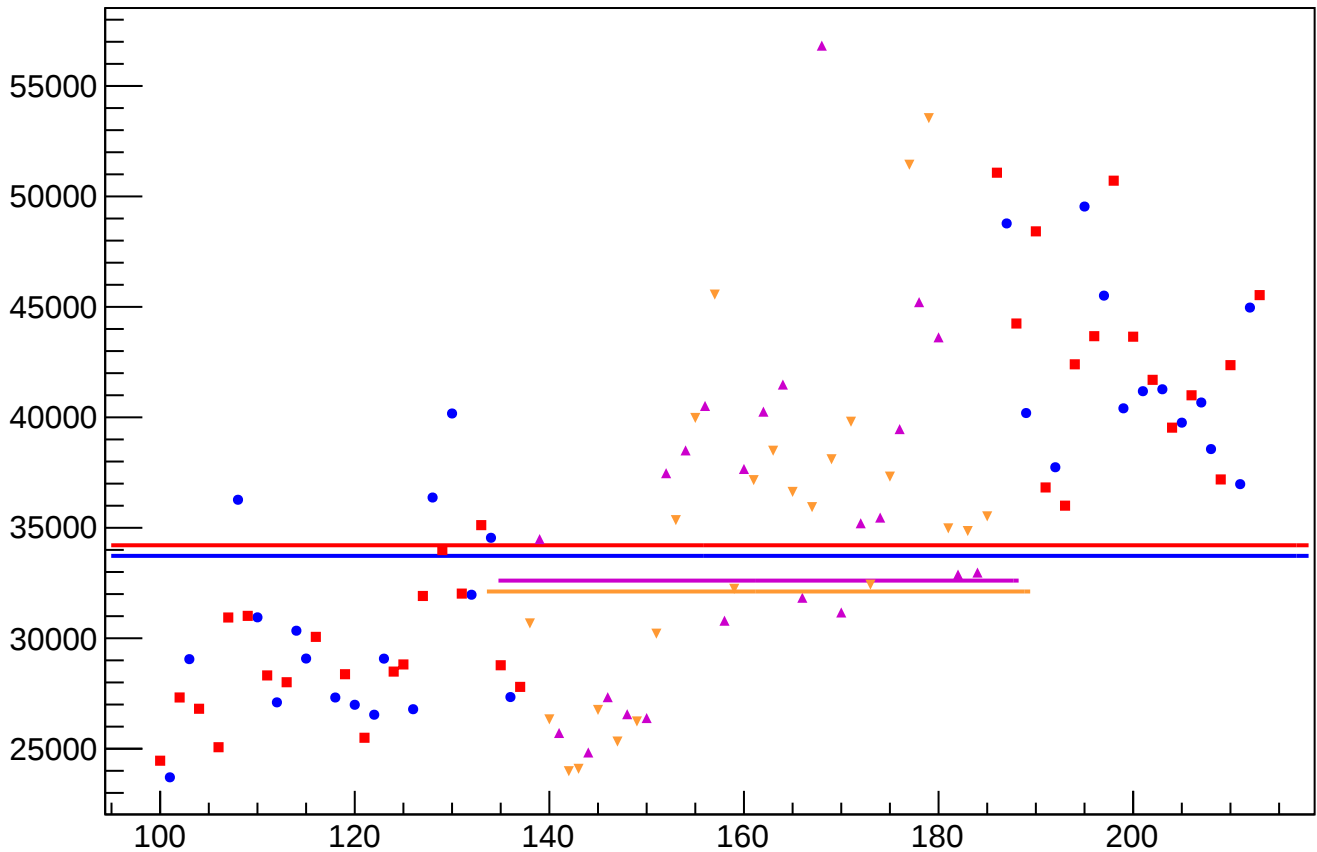
Left In: -0.565 ± 8.015 χ^2/NDF : 14.3/22

+ sign -1.398 ± 5.748 χ^2/NDF : 62.9/54

All: 2.544 ± 4.086 χ^2/NDF : 118.2/111

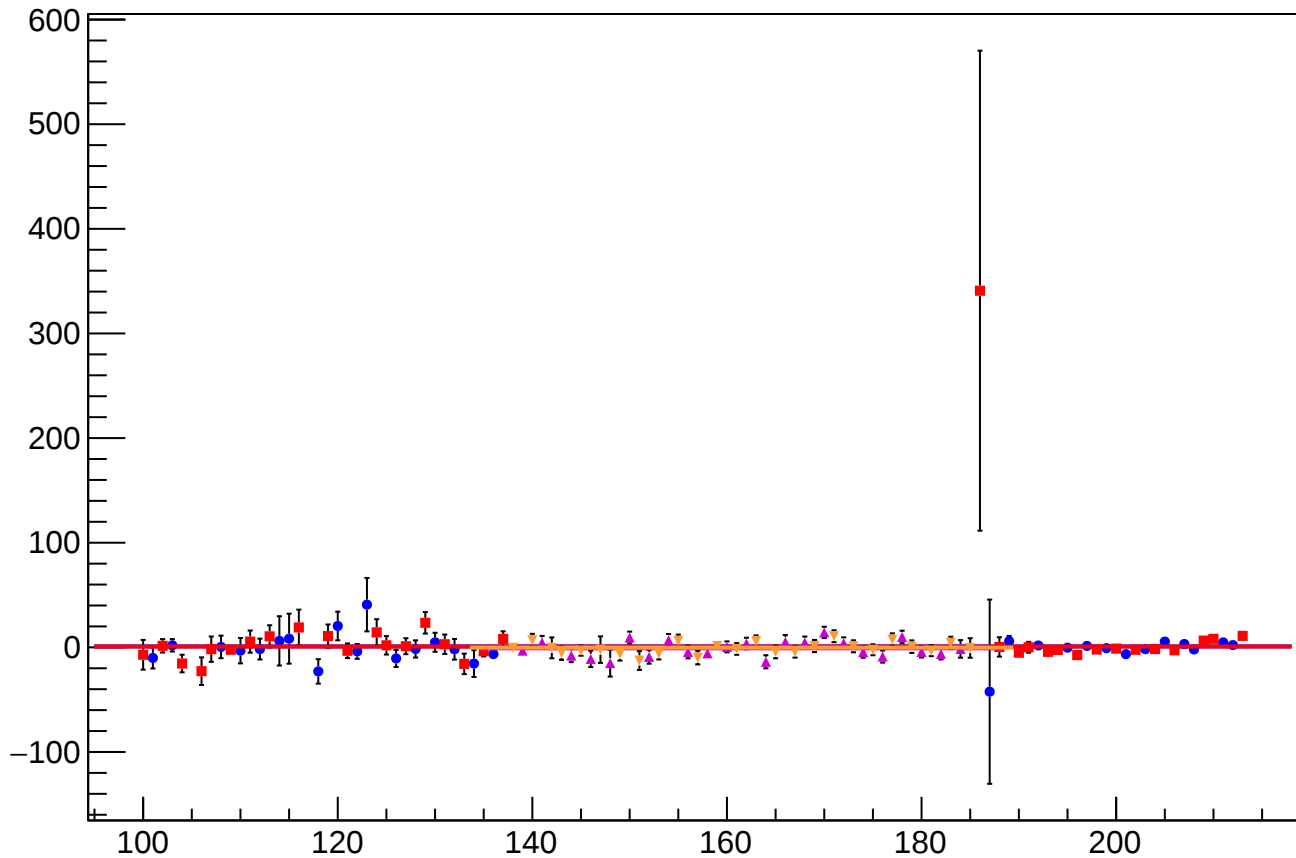
- sign 6.570 ± 5.809 χ^2/NDF : 54.3/56

diff_bpm12X_rms vs Slug



Right In: 33729.703 $\pm$ 6.117	χ^2 /NDF: 1347394.3/29	+ sign 32829.044 $\pm$ 4.064	χ^2 /NDF: 2922950.4/54
Left Out: 32117.184 $\pm$ 5.438	χ^2 /NDF: 1536740.0/24	All: 33096.257 $\pm$ 2.889	χ^2 /NDF: 5834618.7/1
Right Out: 34209.146 $\pm$ 5.961	χ^2 /NDF: 1466660.8/33	- sign 33369.181 $\pm$ 4.107	χ^2 /NDF: 2902930.1/56
Left In: 32610.108 $\pm$ 5.667	χ^2 /NDF: 1398475.8/22		

diff_bpm12Y_mean vs Slug



Right In: 0.878 ± 0.731 χ^2/NDF : 37.1/29

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

Right Out: 0.798 ± 0.745 χ^2/NDF : 73.3/33

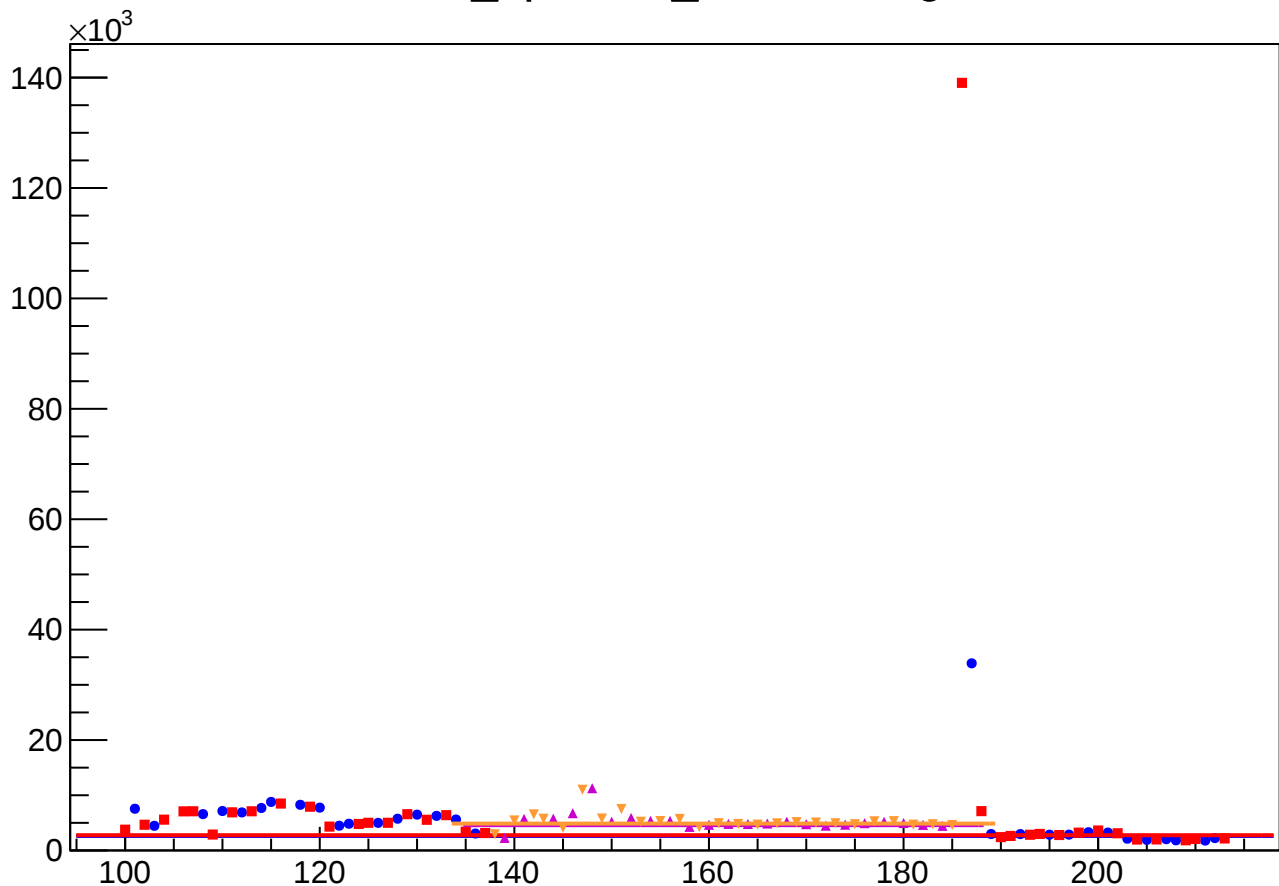
Left In: -0.925 ± 1.154 χ^2/NDF : 36.1/22

+ sign 0.561 ± 0.620 χ^2/NDF : 55.8/54

All: 0.427 ± 0.441 χ^2/NDF : 166.9/111

- sign 0.291 ± 0.626 χ^2/NDF : 110.9/56

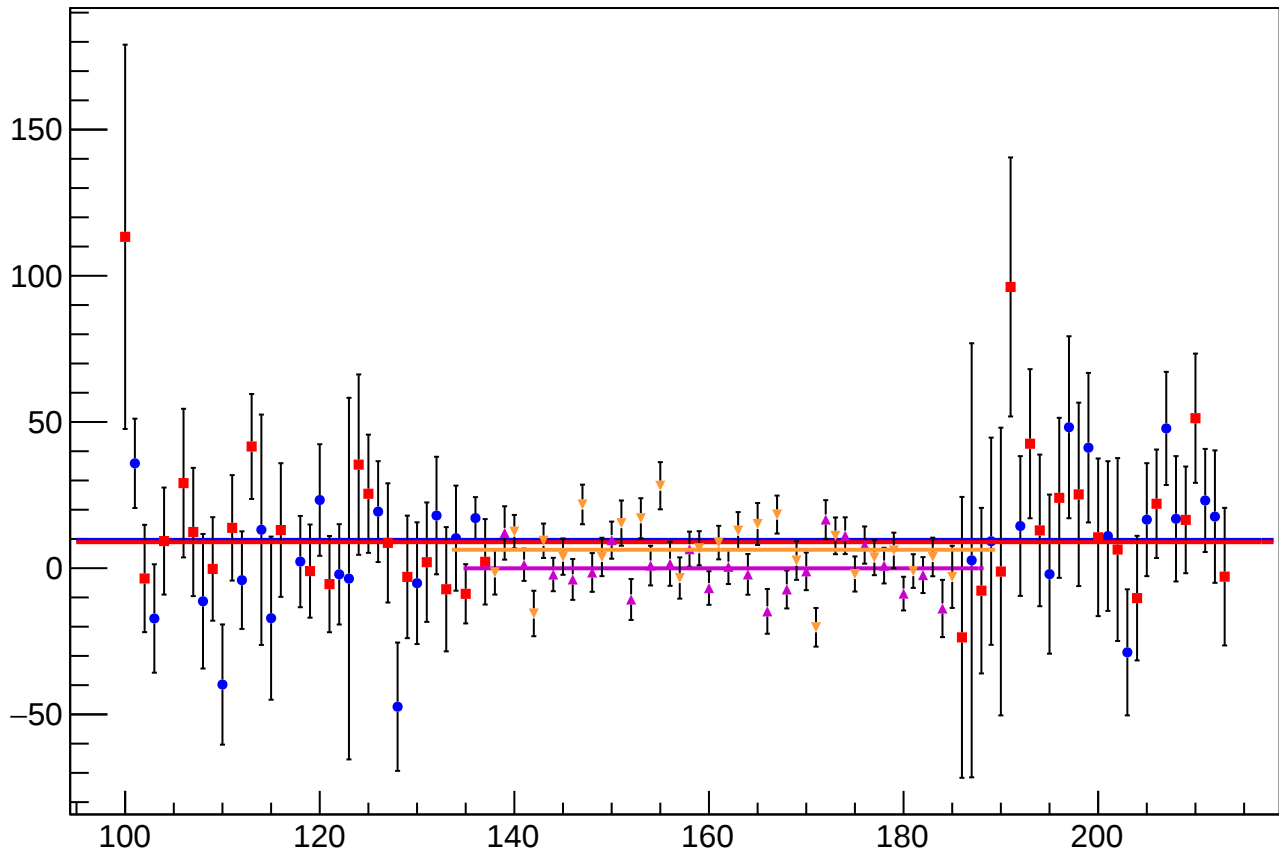
diff_bpm12Y_rms vs Slug



Right In: 2629.588 ± 0.517 χ^2/NDF : 5405850.8/29
 Left Out: 4866.528 ± 0.829 χ^2/NDF : 1511486.2/24
 Right Out: 2759.796 ± 0.527 χ^2/NDF : 5825333.9/33
 Left In: 4582.193 ± 0.816 χ^2/NDF : 2478681.0/22

+ sign 3255.603 ± 0.439 χ^2/NDF : 12156436.3/54
 All: 3275.548 ± 0.312 χ^2/NDF : 23987115.9/100
 - sign 3295.832 ± 0.442 χ^2/NDF : 11826511.1/56

diff_bpm16X_mean vs Slug



Right In: 9.682 ± 3.464 χ^2/NDF : 34.7/29

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

Right Out: 8.896 ± 3.573 χ^2/NDF : 26.7/33

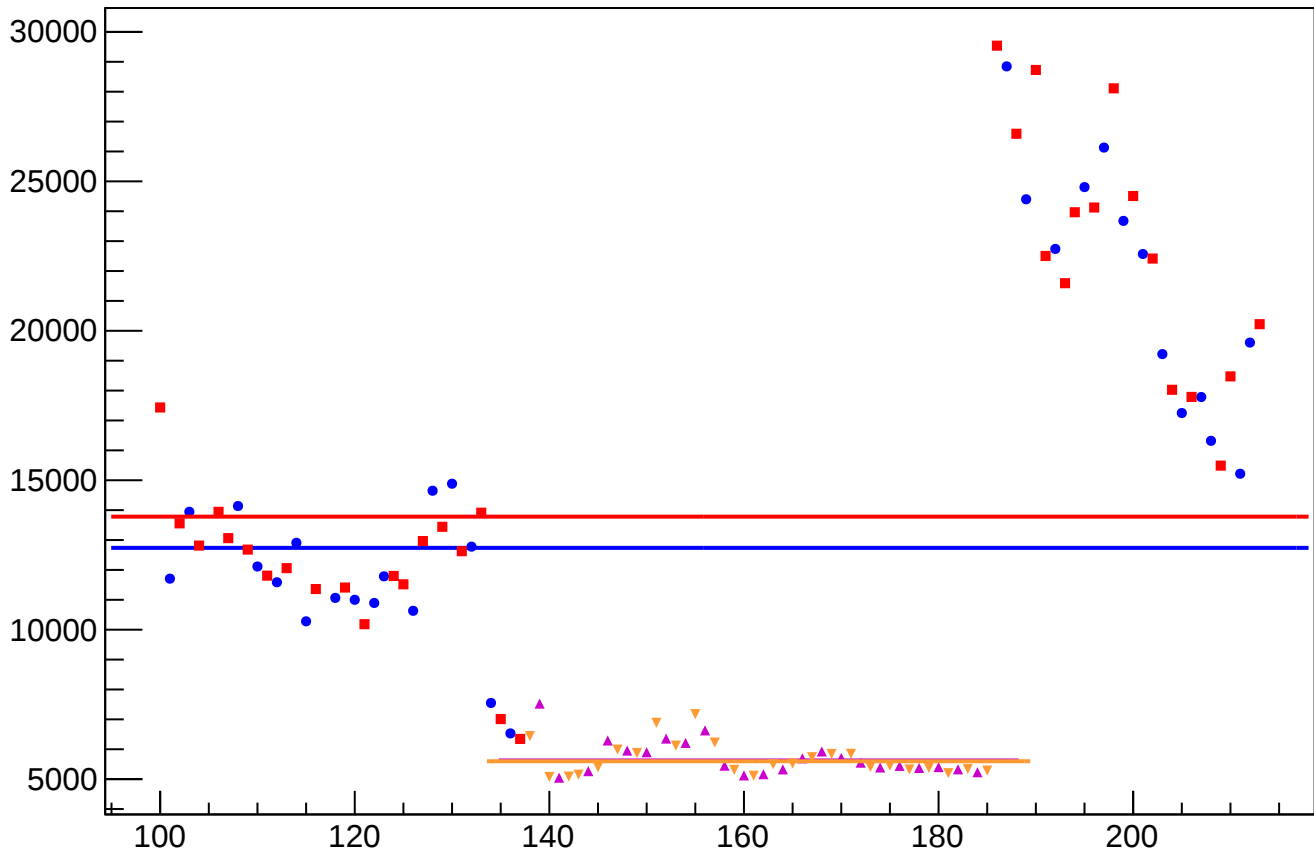
Left In: -0.044 ± 1.358 χ^2/NDF : 30.0/22

+ sign 6.726 ± 1.227 χ^2/NDF : 92.2/54

All: 3.999 ± 0.882 χ^2/NDF : 164.6/111

- sign 1.084 ± 1.269 χ^2/NDF : 62.2/56

diff_bpm16X_rms vs Slug



Right In: 12737.984+/-2.450 χ^2/NDF : 4643423.4/29

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

Right Out: 13782.439+/-2.527 χ^2/NDF : 4669279.9/33

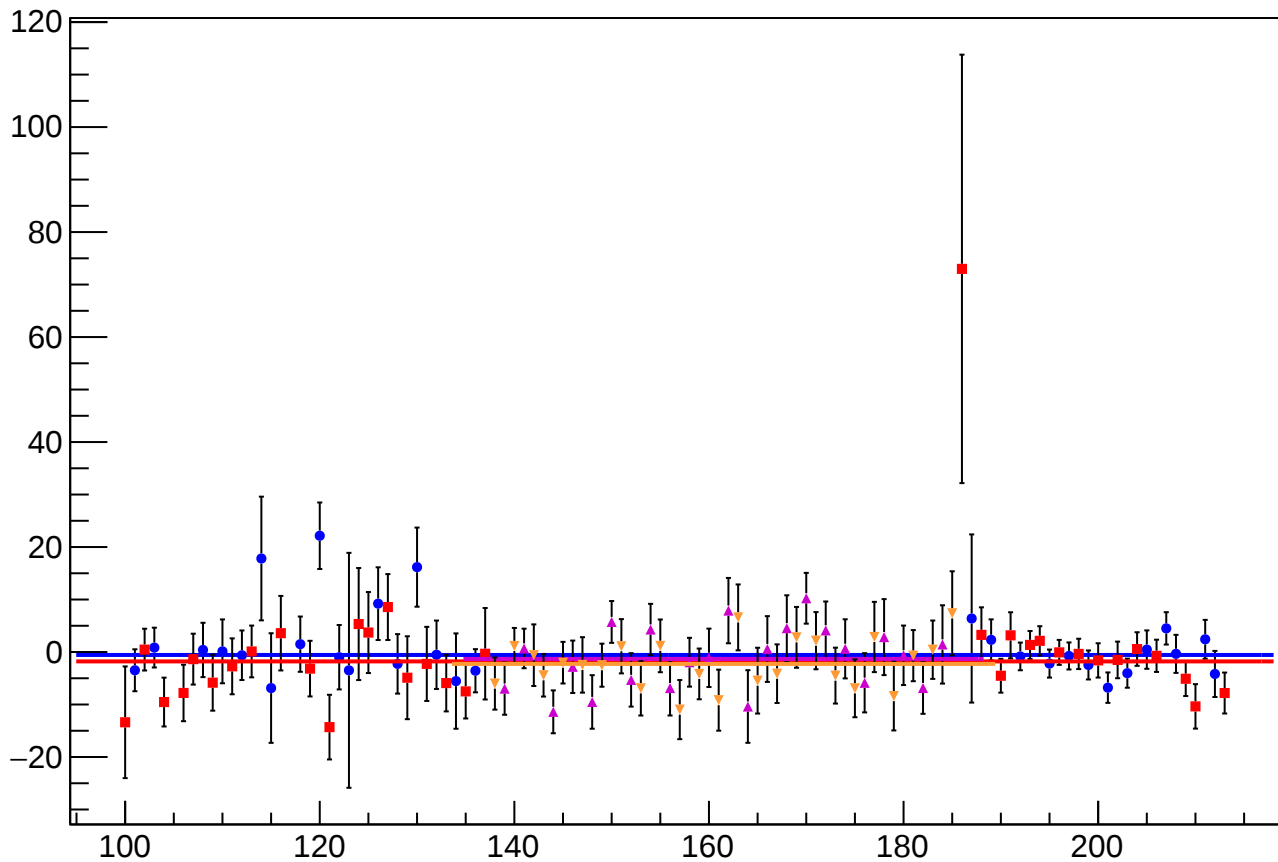
Left In: 5625.163+/-0.960 χ^2/NDF :272563.5/22

+ sign 6494.929+/-0.868 χ^2/NDF : 12353839.9/54

All: 6571.937+/-0.624 χ^2/NDF : 26419727.0/100

- sign 6654.278+/-0.897 χ^2/NDF : 14049596.7/56

diff_bpm16Y_mean vs Slug



Right In: -0.560 ± 0.750 χ^2/NDF : 36.3/29

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

Right Out: -1.788 ± 0.724 χ^2/NDF : 35.3/33

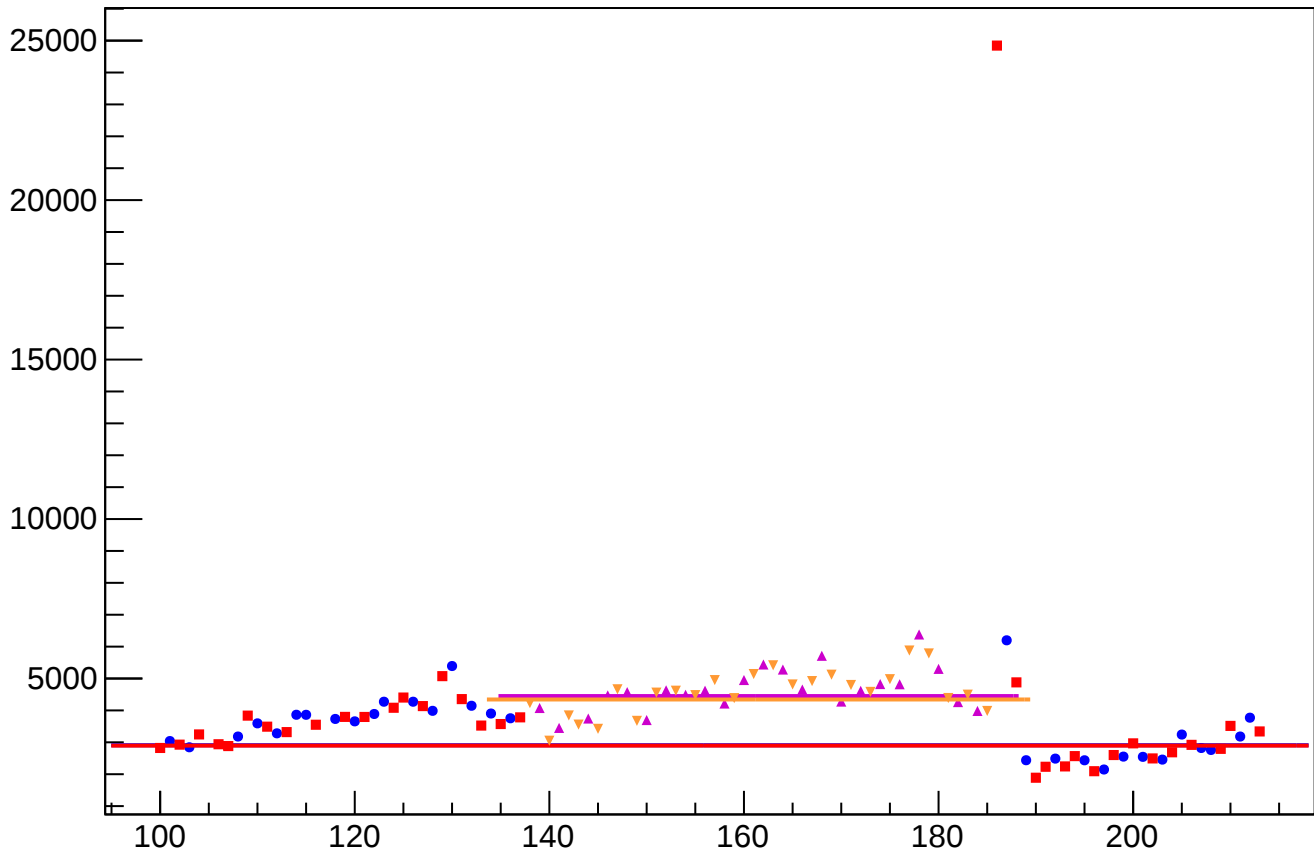
Left In: -1.328 ± 1.082 χ^2/NDF : 30.6/22

+ sign -1.149 ± 0.606 χ^2/NDF : 53.6/54

All: -1.399 ± 0.427 χ^2/NDF : 120.0/111

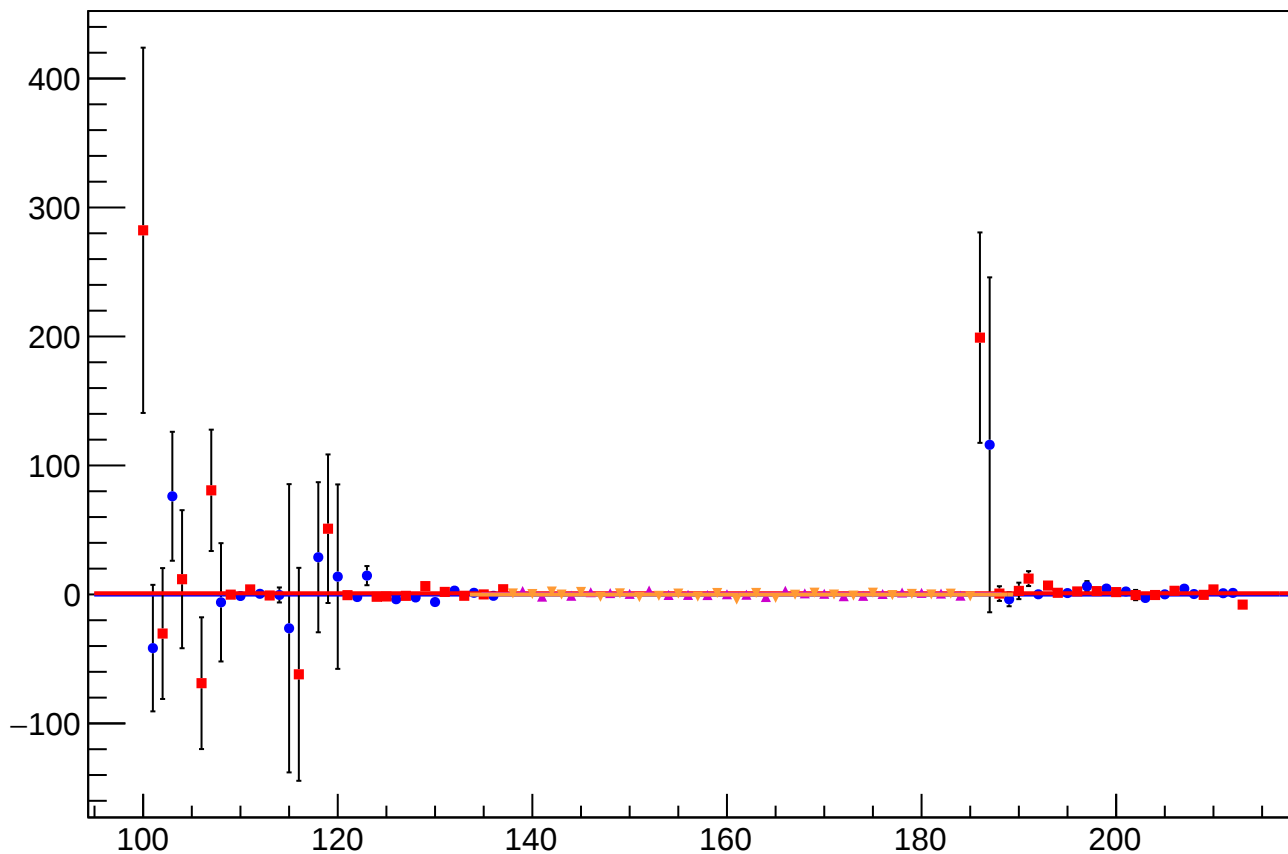
- sign -1.646 ± 0.602 χ^2/NDF : 66.1/56

diff_bpm16Y_rms vs Slug



Right In: 2908.437+/-0.530	χ^2/NDF : 1388328.3/29	+ sign 3405.197+/-0.429	χ^2/NDF : 4915243.5/54
Left Out: 4342.635+/-0.728	χ^2/NDF : 993035.5/24	All: 3391.098+/-0.302	χ^2/NDF : 10795631.6/100
Right Out: 2896.641+/-0.512	χ^2/NDF : 2338181.1/33	- sign 3377.205+/-0.426	χ^2/NDF : 5878240.8/56
Left In: 4450.007+/-0.765	χ^2/NDF : 693229.8/22		

diff_bpm1p02bX_mean vs Slug



Right In: -0.108 ± 0.550 χ^2/NDF : 32.2/29

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

Right Out: 0.915 ± 0.543 χ^2/NDF : 47.6/33

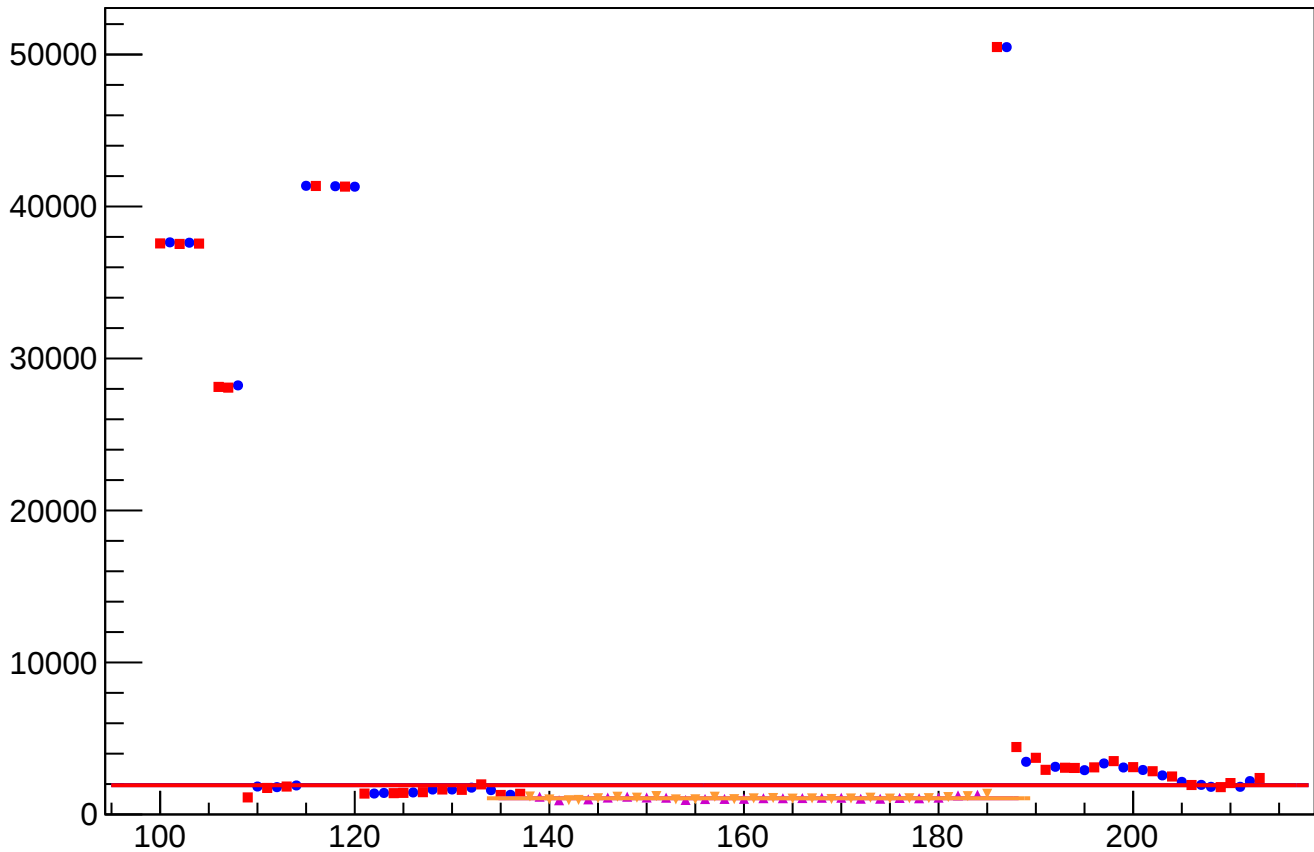
Left In: 0.259 ± 0.257 χ^2/NDF : 27.2/22

+ sign -0.094 ± 0.227 χ^2/NDF : 66.6/54

All: 0.137 ± 0.162 χ^2/NDF : 144.7/111

- sign 0.379 ± 0.232 χ^2/NDF : 76.0/56

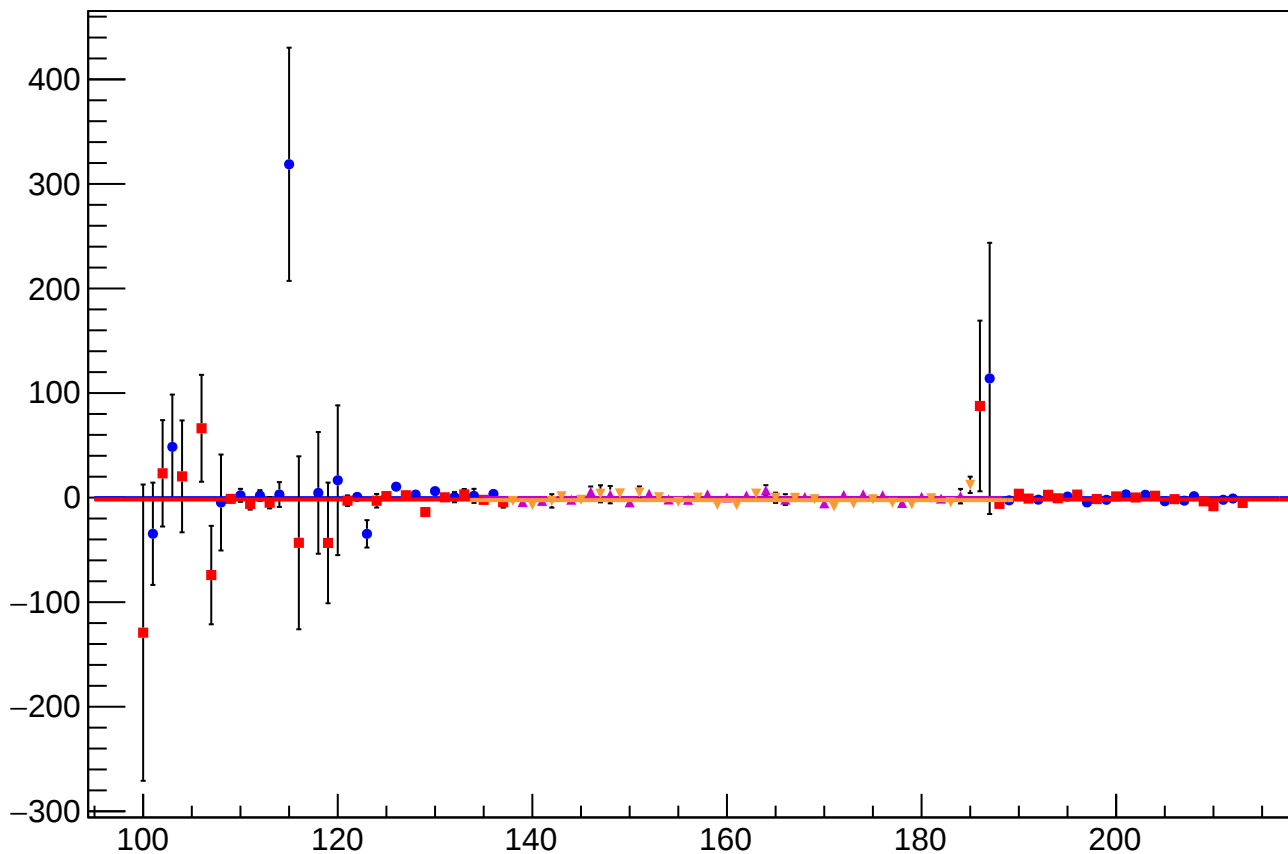
diff_bpm1p02bX_rms vs Slug



Right In: 1930.464+/-0.389 χ^2/NDF : 6951818.3/29
 Left Out: 1064.701+/-0.176 χ^2/NDF : 186511.5/24
 Right Out: 1921.853+/-0.384 χ^2/NDF : 8414511.1/33
 Left In: 1066.255+/-0.182 χ^2/NDF : 164232.1/22

+ sign 1212.224+/-0.160 χ^2/NDF : 11256819.2/54
 All: 1217.380+/-0.115 χ^2/NDF : 23894203.8/100
 - sign 1222.786+/-0.164 χ^2/NDF : 12635267.9/56

diff_bpm1p02bY_mean vs Slug



Right In: -0.508 ± 0.489 χ^2/NDF : 51.0/29

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

Right Out: -1.827 ± 0.500 χ^2/NDF : 57.4/33

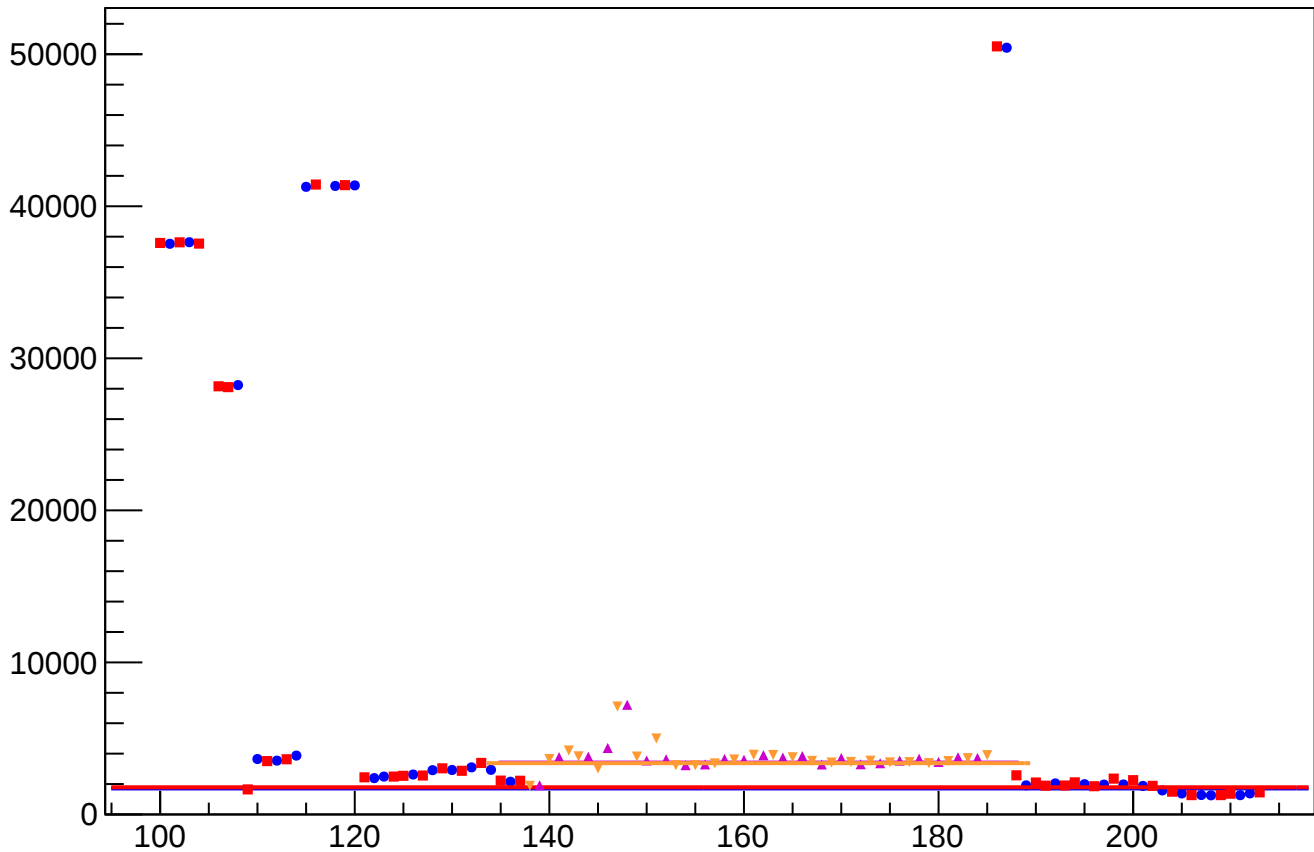
Left In: -0.468 ± 0.843 χ^2/NDF : 15.5/22

+ sign -1.019 ± 0.419 χ^2/NDF : 76.4/54

All: -1.240 ± 0.300 χ^2/NDF : 151.7/111

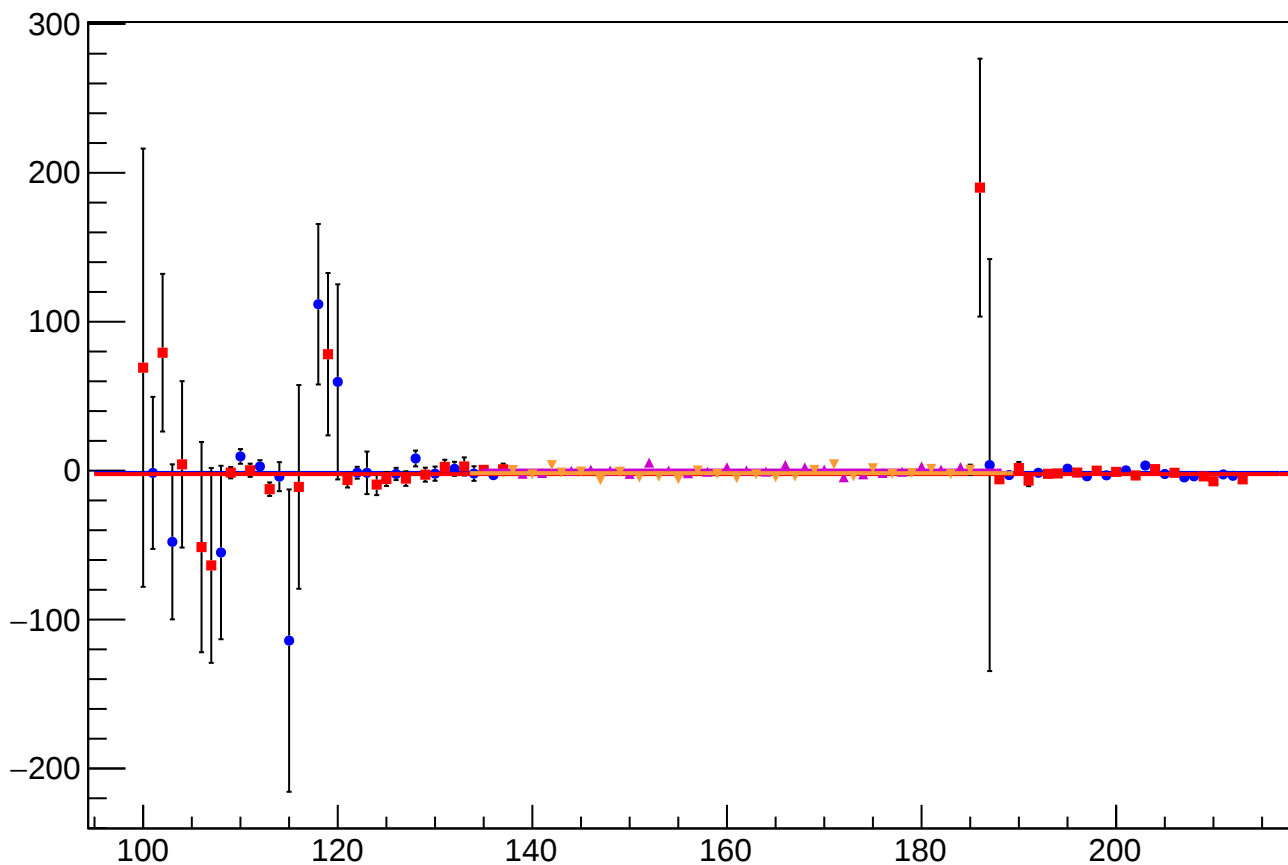
- sign -1.474 ± 0.430 χ^2/NDF : 74.8/56

diff_bpm1p02bY_rms vs Slug



Right In: 1710.063 ± 0.346 $\chi^2/\text{NDF}: 7036265.0/29$ + sign 2153.733 ± 0.296 $\chi^2/\text{NDF}: 14865133.6/54$
 Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$ All: 2180.967 ± 0.212 $\chi^2/\text{NDF}: 29356400.6/1$
 Right Out: 1787.180 ± 0.353 $\chi^2/\text{NDF}: 7540053.6/33$ - sign 2209.667 ± 0.304 $\chi^2/\text{NDF}: 14473886.5/56$
 Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

diff_bpm1p03aX_mean vs Slug



Right In: -1.519 ± 0.596 χ^2/NDF : 30.4/29

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

Right Out: -2.328 ± 0.598 χ^2/NDF : 34.9/33

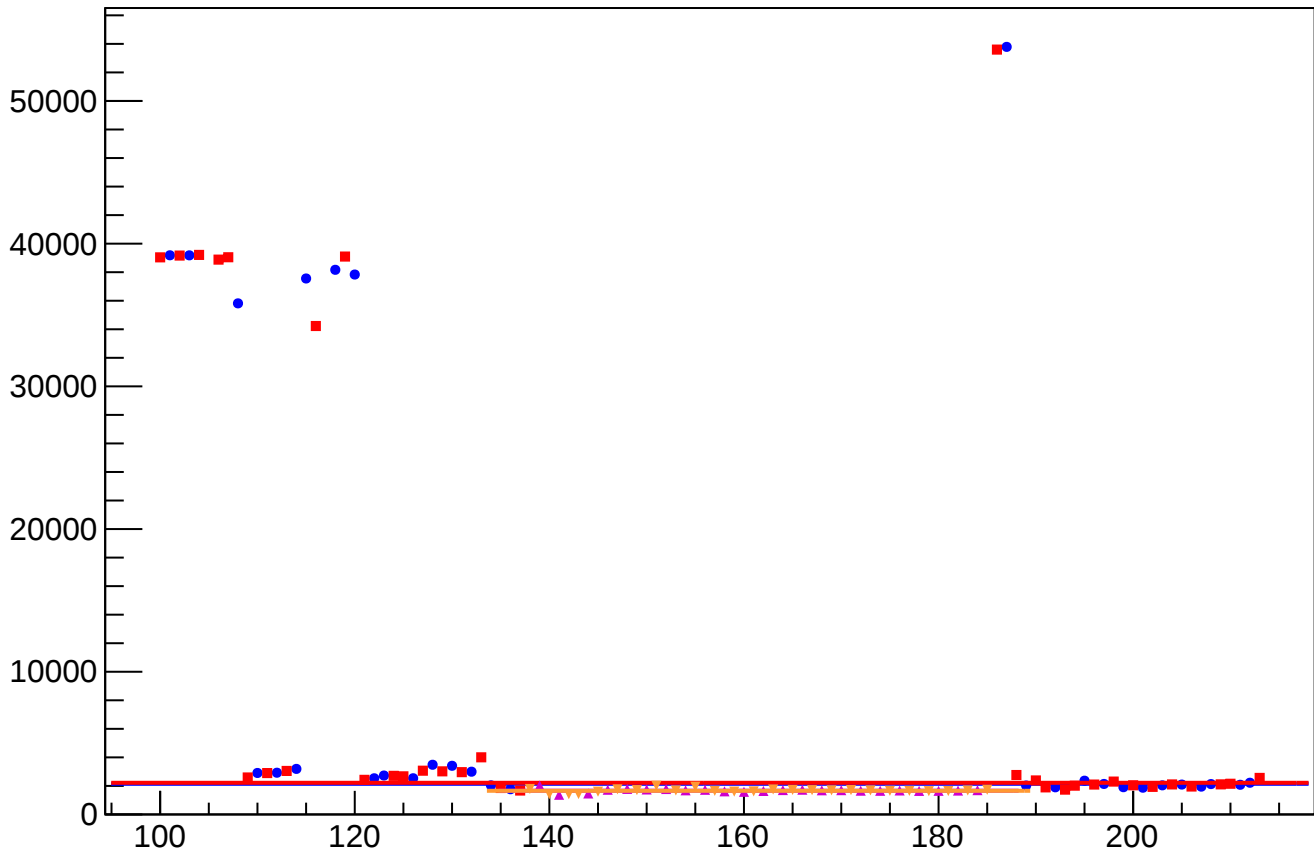
Left In: 0.072 ± 0.401 χ^2/NDF : 28.2/22

+ sign -1.627 ± 0.325 χ^2/NDF : 76.1/54

All: -1.161 ± 0.233 χ^2/NDF : 154.5/111

- sign -0.672 ± 0.333 χ^2/NDF : 74.2/56

diff_bpm1p03aX_rms vs Slug



Right In: 2148.317 $\pm$ 0.421 χ^2 /NDF: 5461886.7/29

Left Out: 1657.770 $\pm$ 0.274 χ^2 /NDF: 223465.3/24

Right Out: 2218.675 $\pm$ 0.423 χ^2 /NDF: 6094244.7/33

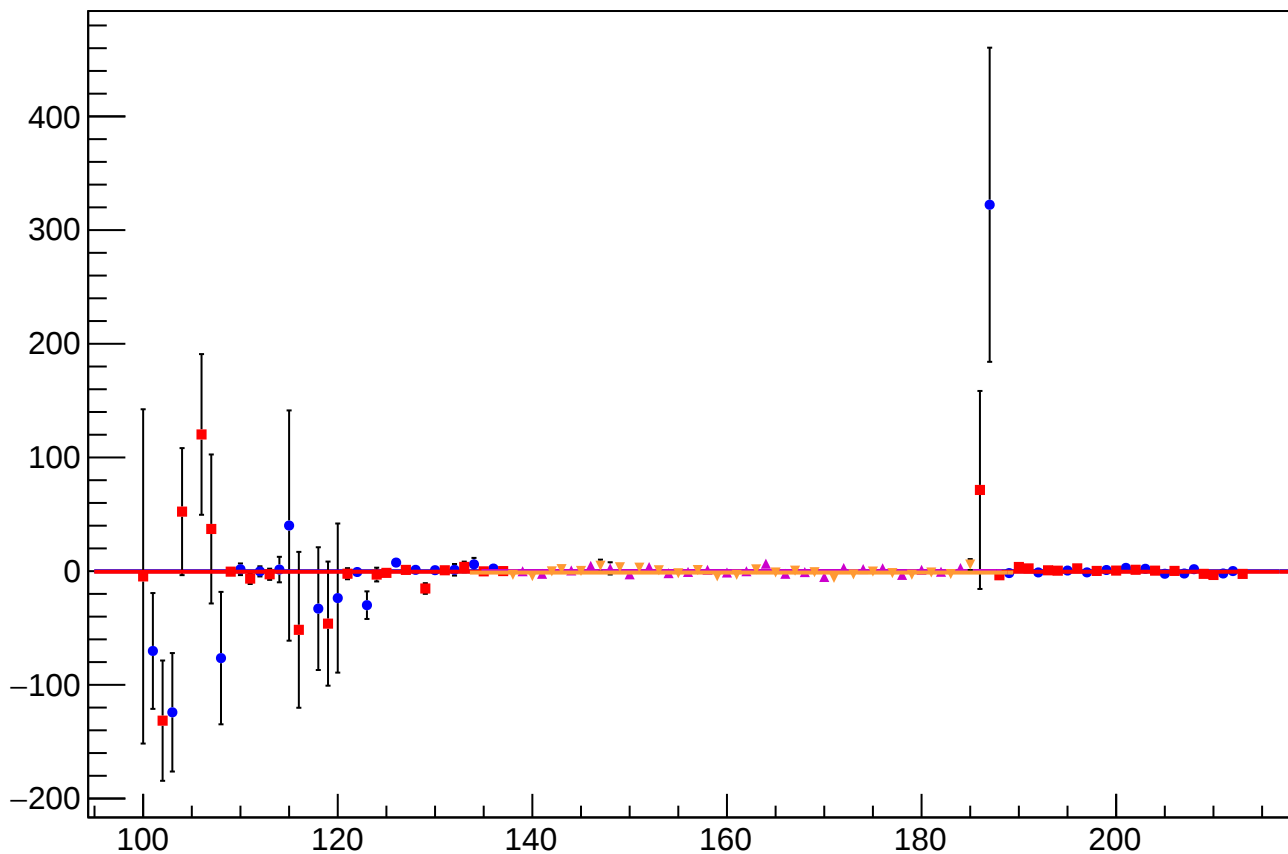
Left In: 1663.620 $\pm$ 0.284 χ^2 /NDF: 178858.2/22

+ sign 1803.910 $\pm$ 0.230 χ^2 /NDF: 6637379.8/54

All: 1819.398 $\pm$ 0.165 χ^2 /NDF: 14107148.0/100

- sign 1835.655 $\pm$ 0.236 χ^2 /NDF: 7460468.7/56

diff_bpm1p03aY_mean vs Slug



Right In: -0.045 ± 0.427 $\chi^2/\text{NDF}: 43.3/29$

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

Right Out: -0.517 ± 0.425 $\chi^2/\text{NDF}: 43.0/33$

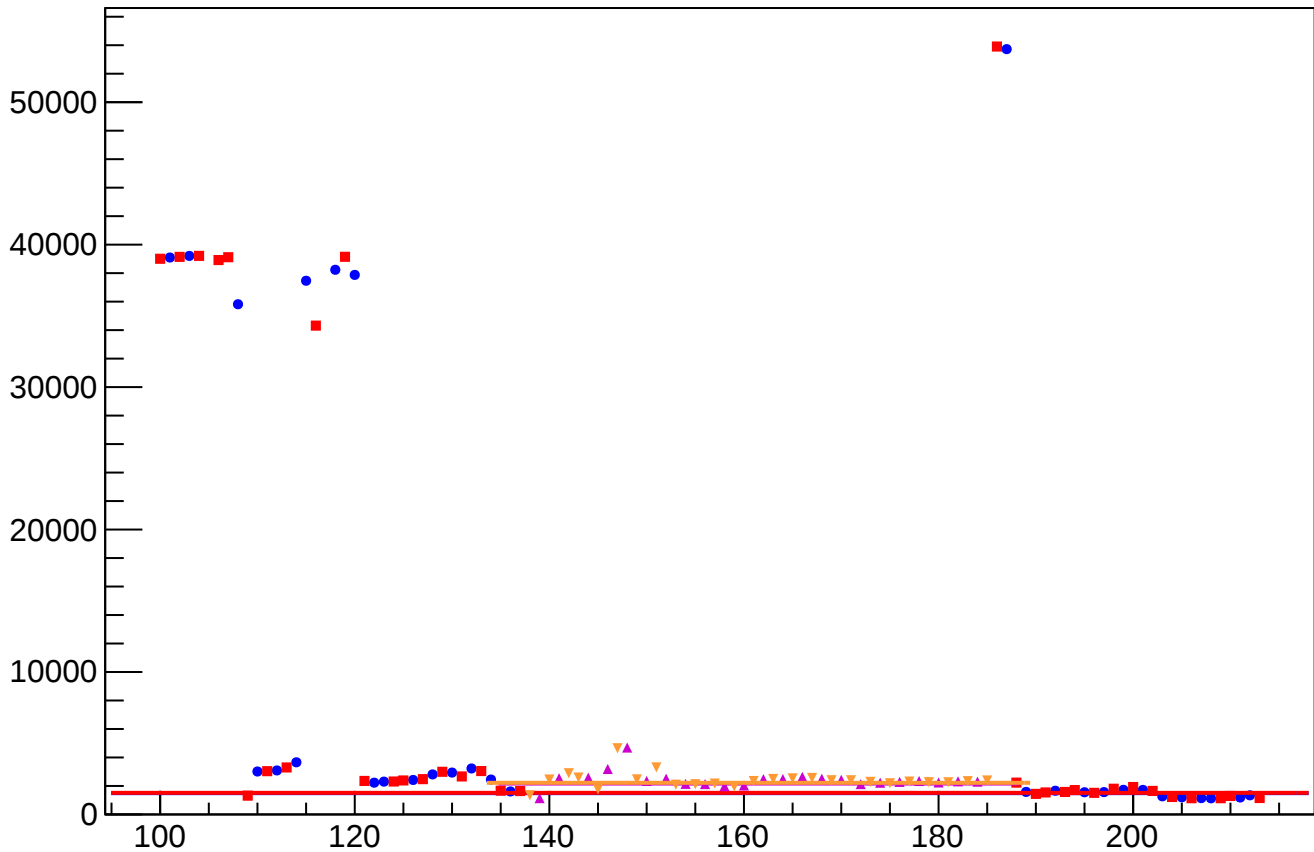
Left In: 0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

+ sign -0.515 ± 0.334 $\chi^2/\text{NDF}: 68.2/54$

All: -0.399 ± 0.236 $\chi^2/\text{NDF}: 131.4/111$

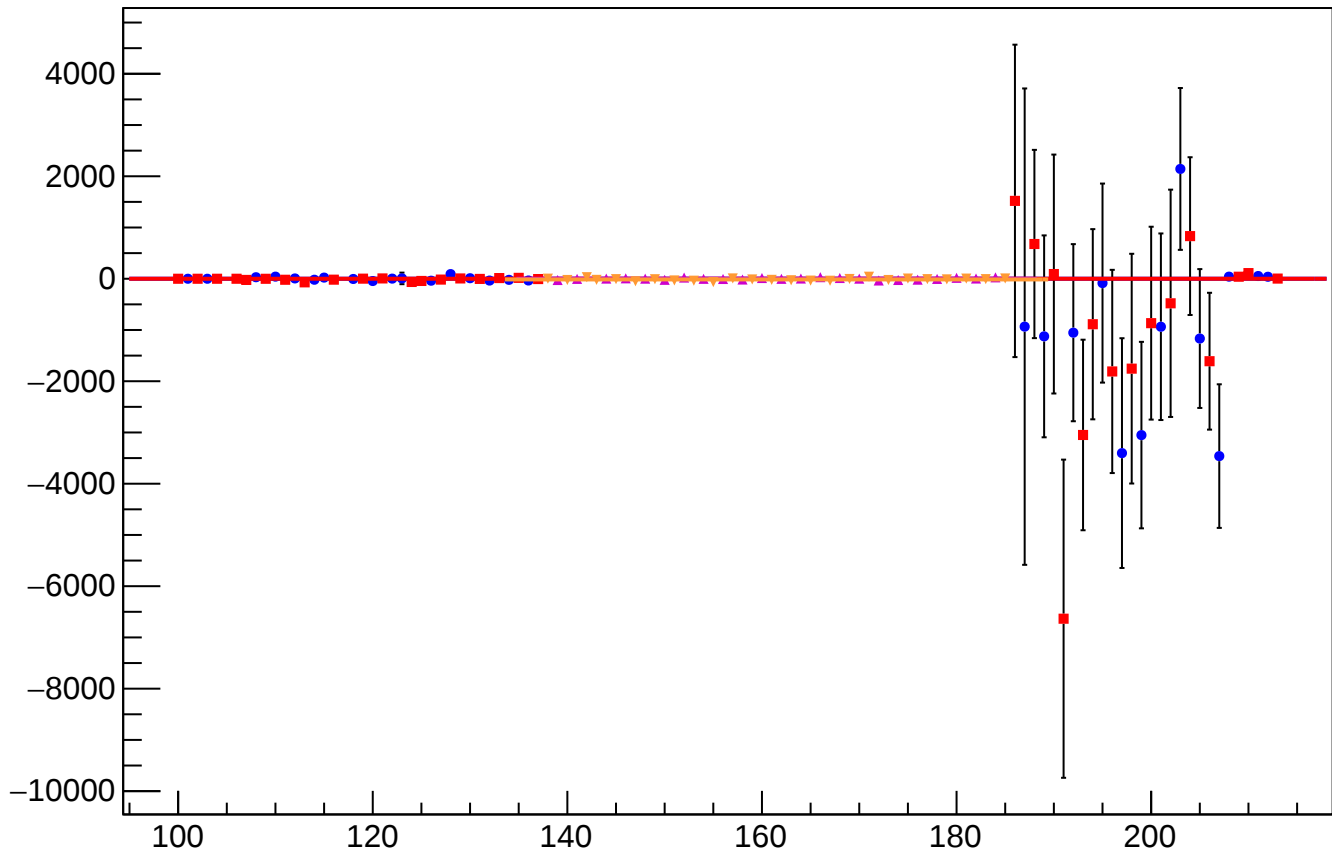
- sign -0.283 ± 0.334 $\chi^2/\text{NDF}: 63.0/56$

diff_bpm1p03aY_rms vs Slug



Right In: 1495.935 $\pm$ 0.302 χ^2 /NDF: 7000216.9/29 + sign 1778.840 $\pm$ 0.236 χ^2 /NDF: 10671301.1/54
 Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF: 1422440.9/24 All: 1772.224 $\pm$ 0.167 χ^2 /NDF: 22085647.6/1
 Right Out: 1516.763 $\pm$ 0.300 χ^2 /NDF: 7638216.3/33 - sign 1765.600 $\pm$ 0.236 χ^2 /NDF: 11412775.8/56
 Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF: 1974869.8/22

diff_cav4bX_mean vs Slug



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 34.5/29

Left Out: -13.484 $\pm$ 2.800 χ^2 /NDF: 58.7/24

Right Out: 0.003 $\pm$ 0.016 χ^2 /NDF: 33.2/33

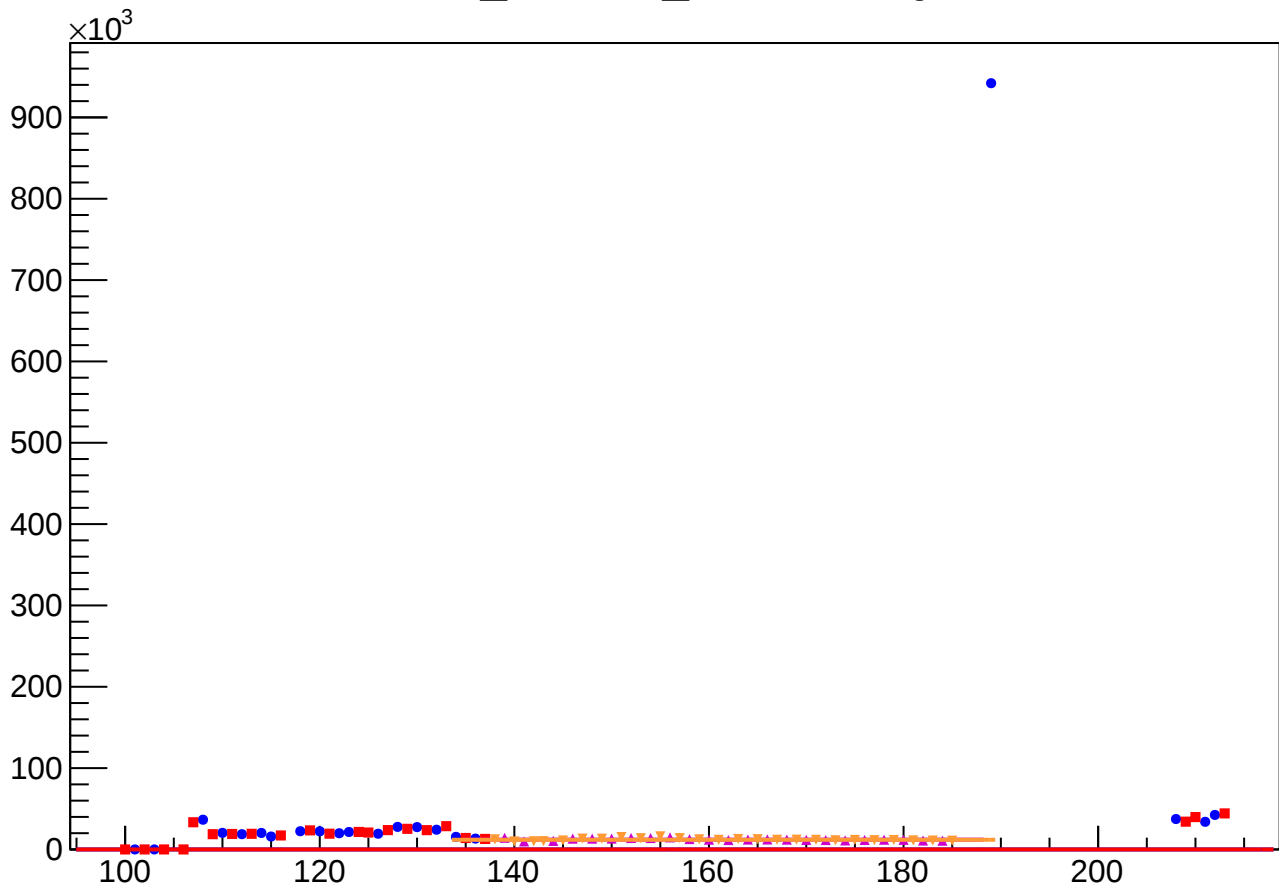
Left In: -0.459 $\pm$ 2.917 χ^2 /NDF: 29.0/22

+ sign 0.013 $\pm$ 0.017 χ^2 /NDF: 116.4/54

All: 0.008 $\pm$ 0.012 χ^2 /NDF: 178.8/111

- sign 0.003 $\pm$ 0.016 χ^2 /NDF: 62.2/56

diff_cav4bX_rms vs Slug



Right In: 18.658 $\pm$ 0.012 χ^2 /NDF: 15271174.1/20

Left Out: 11910.325 $\pm$ 1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.325 $\pm$ 0.011 χ^2 /NDF: 15377929.3/21

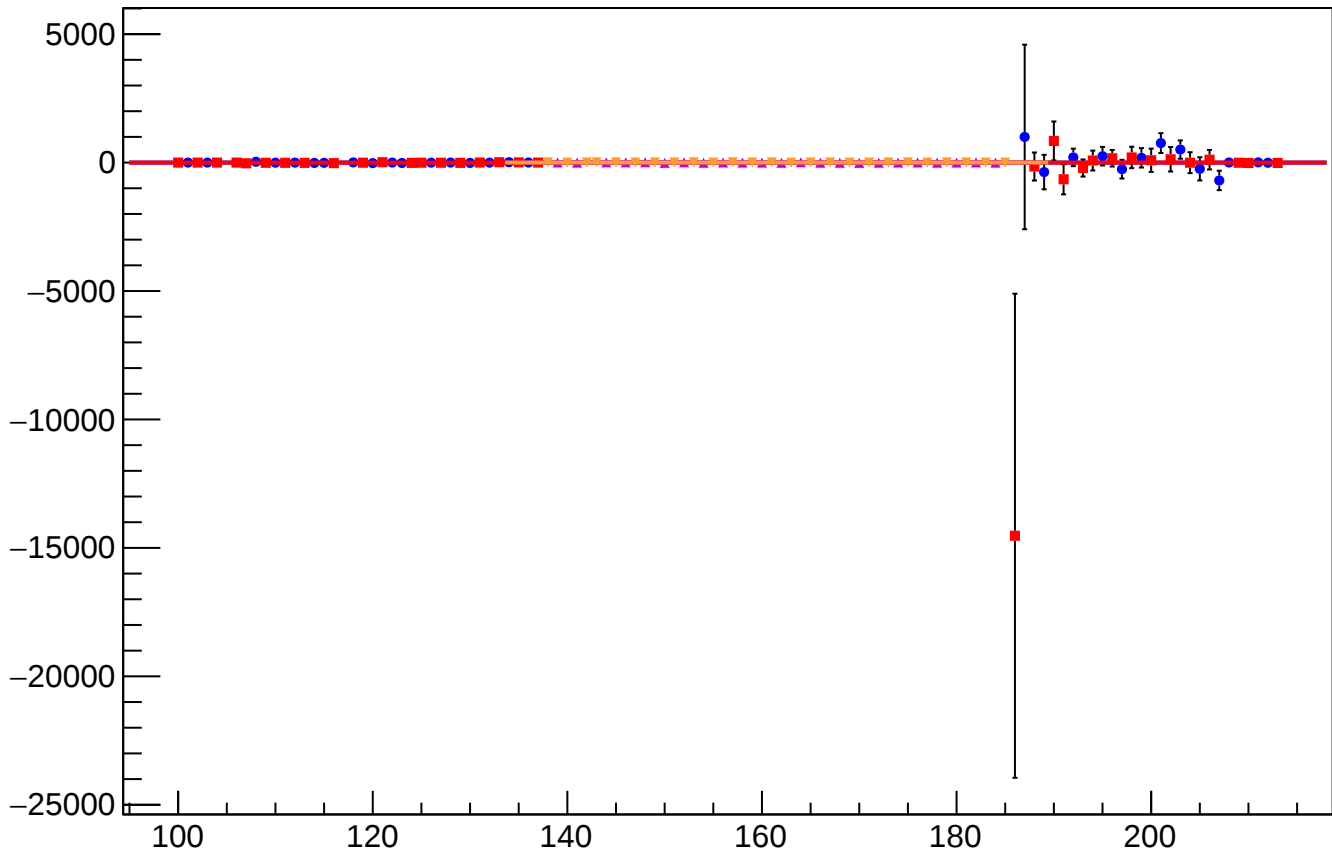
Left In: 12064.761 $\pm$ 2.062 χ^2 /NDF: 368452.5/22

+ sign 19.113 $\pm$ 0.012 χ^2 /NDF: 51810723.2/45

All: 18.886 $\pm$ 0.008 χ^2 /NDF: 101673567.2/90

- sign 18.691 $\pm$ 0.011 χ^2 /NDF: 49862205.8/44

diff_cav4bY_mean vs Slug



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.4/29

Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF:18.4/24

Right Out: 0.014 $\pm$ 0.009 χ^2 /NDF: 33.2/33

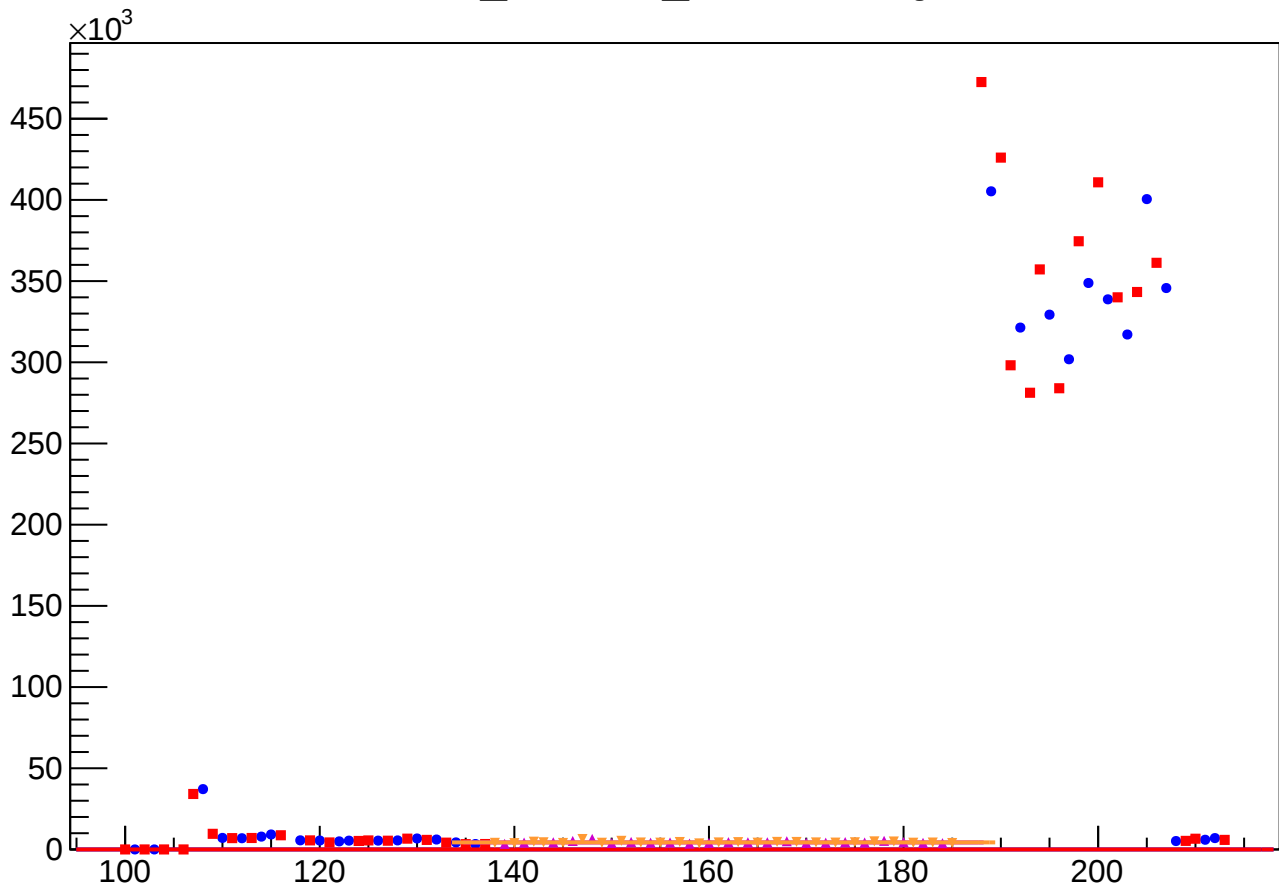
Left In: 0.939 $\pm$ 1.049 χ^2 /NDF:35.6/22

+ sign 0.001 $\pm$ 0.009 χ^2 /NDF: 47.4/54

All: 0.008 $\pm$ 0.006 χ^2 /NDF: 118.0/111

- sign 0.014 $\pm$ 0.009 χ^2 /NDF: 69.6/56

diff_cav4bY_rms vs Slug



Right In: 9.969 ± 0.007 χ^2/NDF : 28739530.2/28

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

Right Out: 9.883 ± 0.006 χ^2/NDF : 30164910.9/32

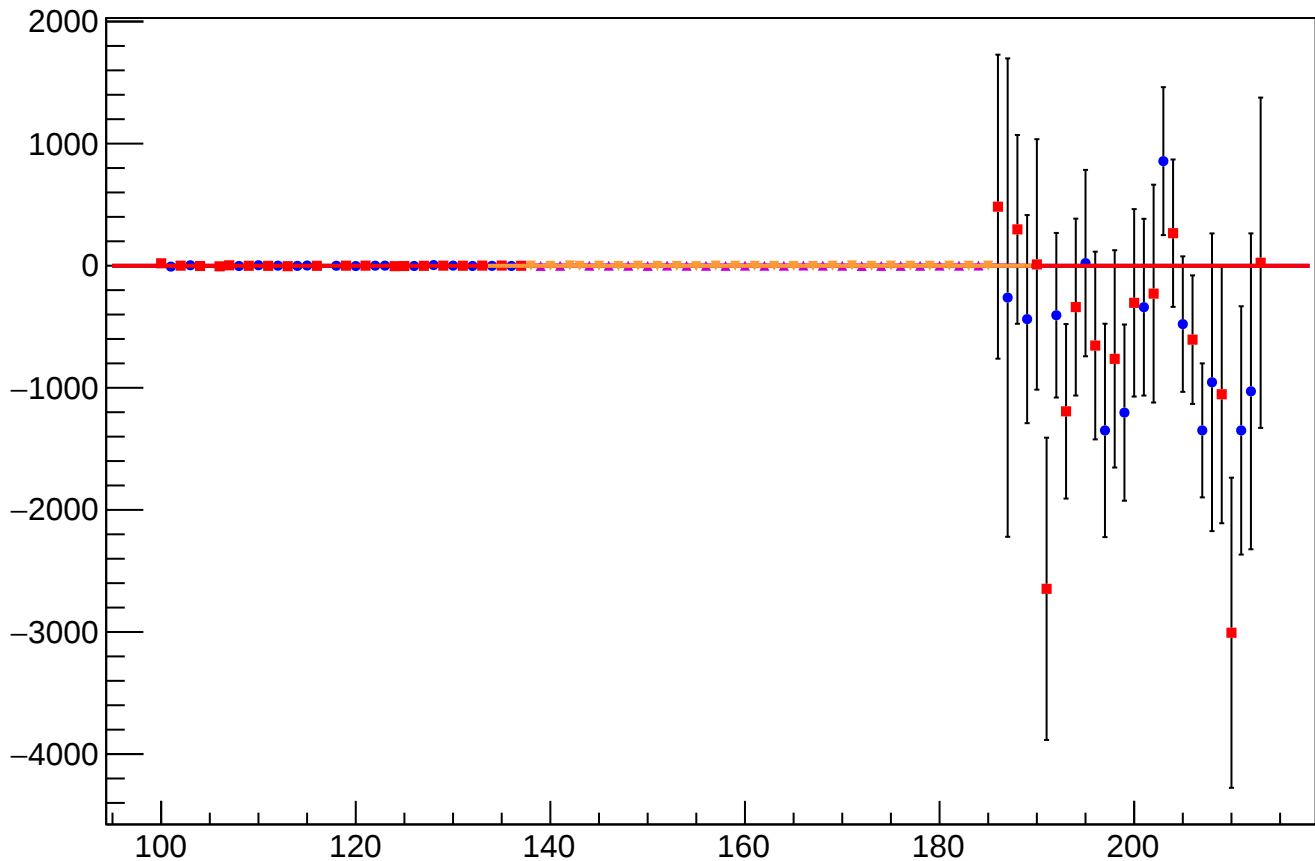
Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

+ sign 10.321 ± 0.007 χ^2/NDF : 65166453.5/53

All: 10.244 ± 0.004 χ^2/NDF : 129664554.9/10

- sign 10.176 ± 0.006 χ^2/NDF : 64497839.4/55

diff_cav4cX_mean vs Slug



Right In: -0.716 ± 0.483 χ^2/NDF : 40.5/29

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

Right Out: -0.641 ± 0.501 χ^2/NDF : 30.7/33

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

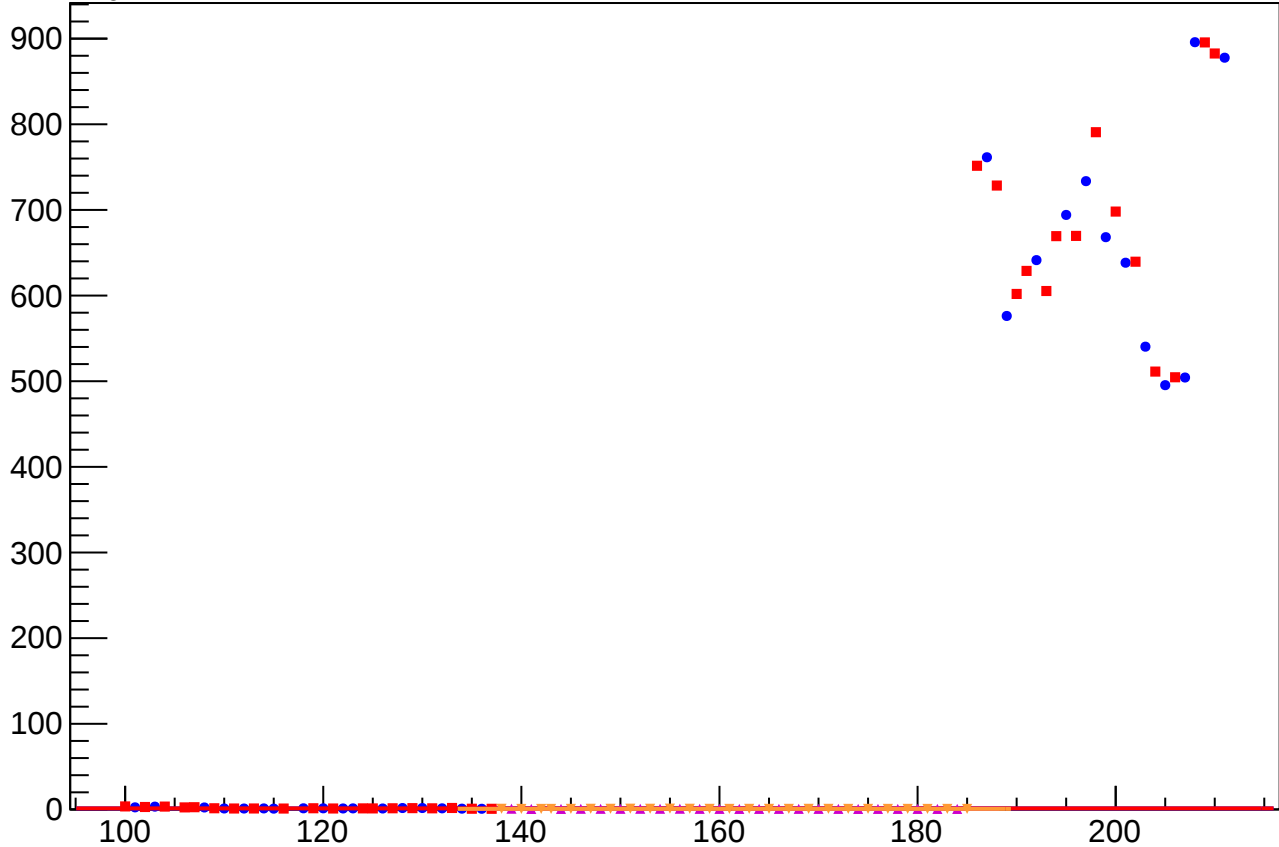
+ sign -0.769 ± 0.156 χ^2/NDF : 99.0/54

All: -0.439 ± 0.112 χ^2/NDF : 169.9/111

- sign -0.083 ± 0.162 χ^2/NDF : 61.5/56

diff_cav4cX_rms vs Slug

$\times 10^3$



Right In: 1170.189 $\pm$ 0.342 χ^2 /NDF: 18156278.4/28

Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF:392855.4/24

Right Out: 1251.257 $\pm$ 0.355 χ^2 /NDF: 18985888.9/32

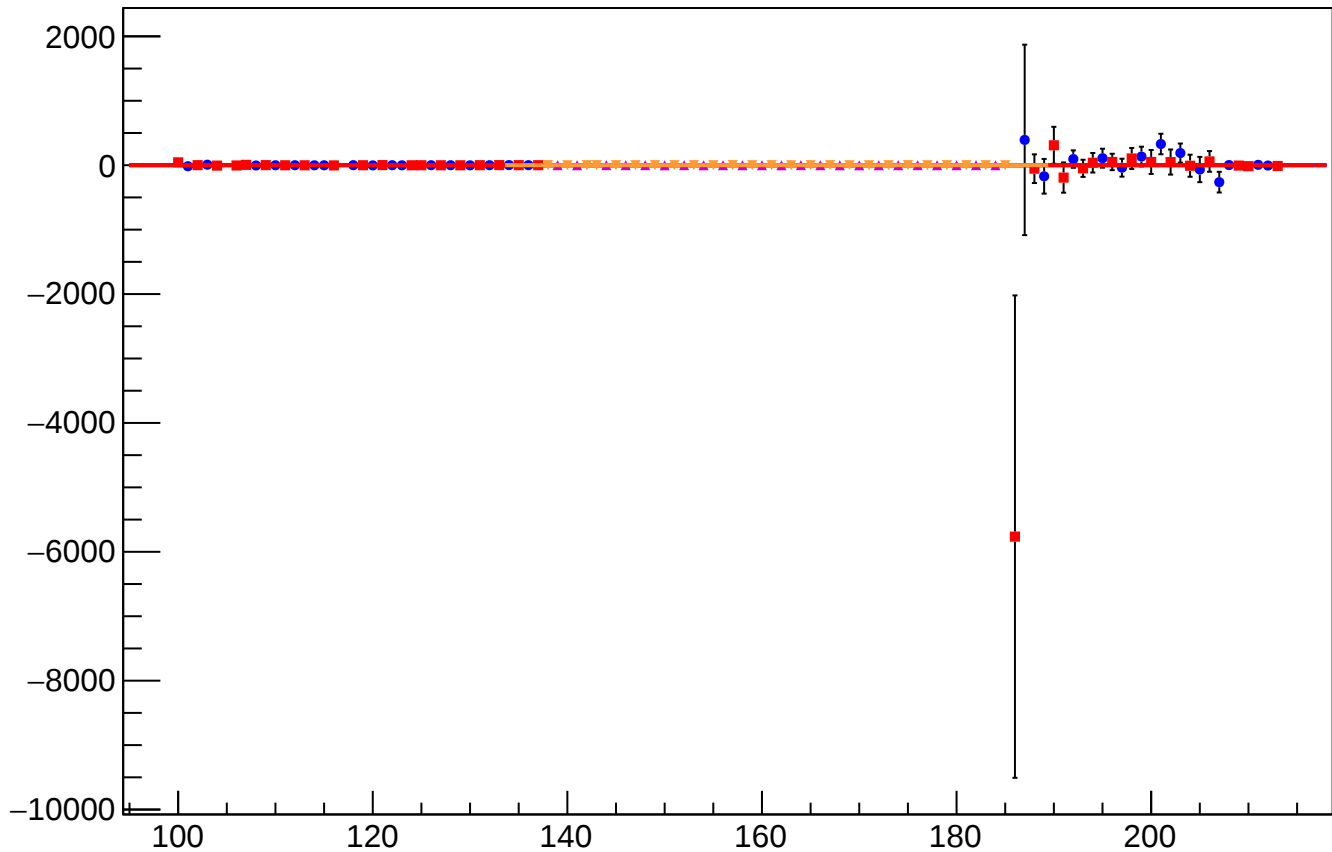
Left In: 706.971 $\pm$ 0.121 χ^2 /NDF:332011.4/22

+ sign 749.771 $\pm$ 0.110 χ^2 /NDF: 20239423.4/53

All: 756.398 $\pm$ 0.079 χ^2 /NDF: 41676036.4/10

- sign 763.535 $\pm$ 0.114 χ^2 /NDF: 21429095.7/55

diff_cav4cY_mean vs Slug



Right In: -0.048 ± 0.268 χ^2/NDF : 32.0/29

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

Right Out: 0.214 ± 0.264 χ^2/NDF : 37.1/33

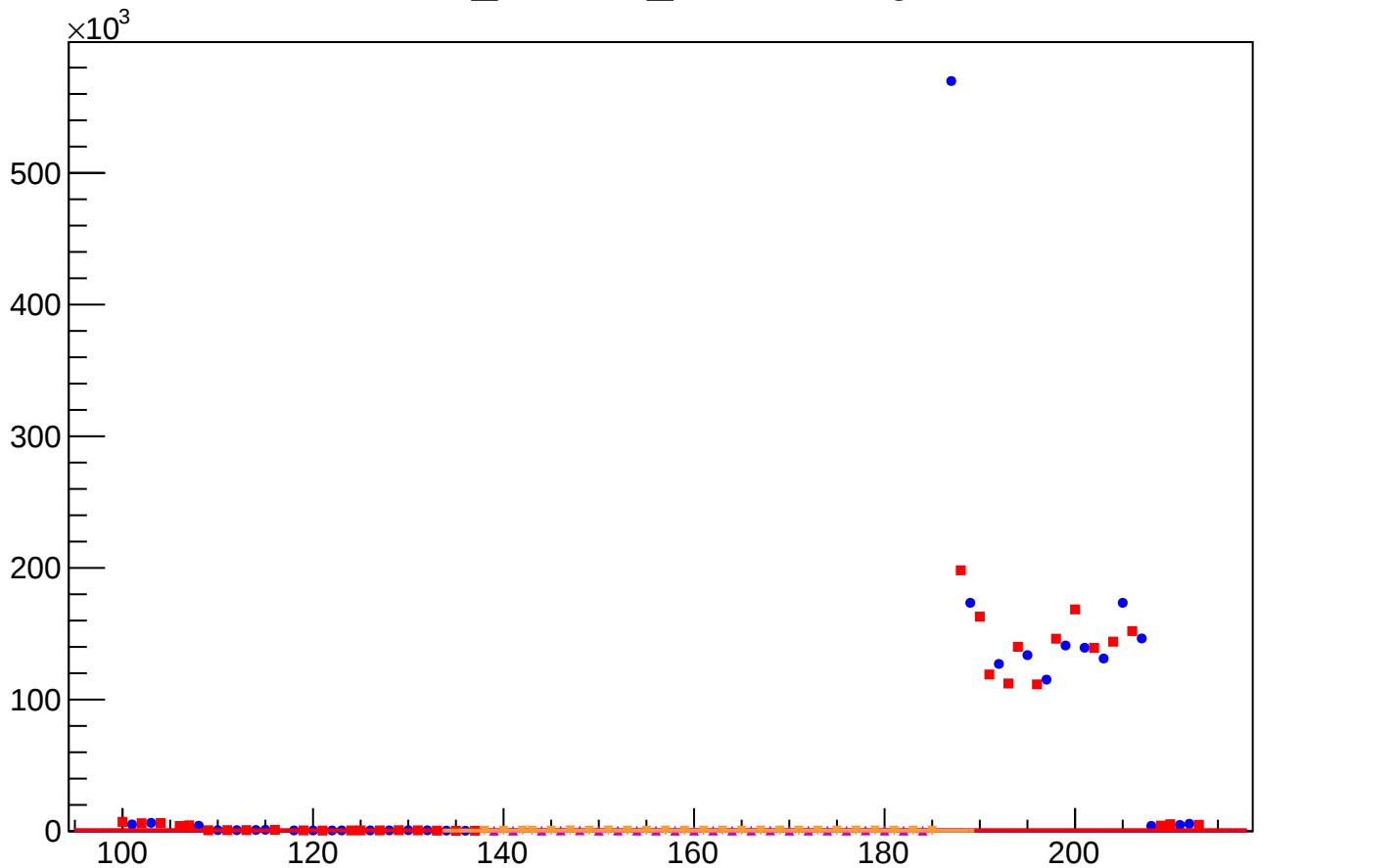
Left In: 0.126 ± 0.126 χ^2/NDF : 35.0/22

+ sign 0.184 ± 0.112 χ^2/NDF : 50.9/54

All: 0.164 ± 0.080 χ^2/NDF : 123.1/111

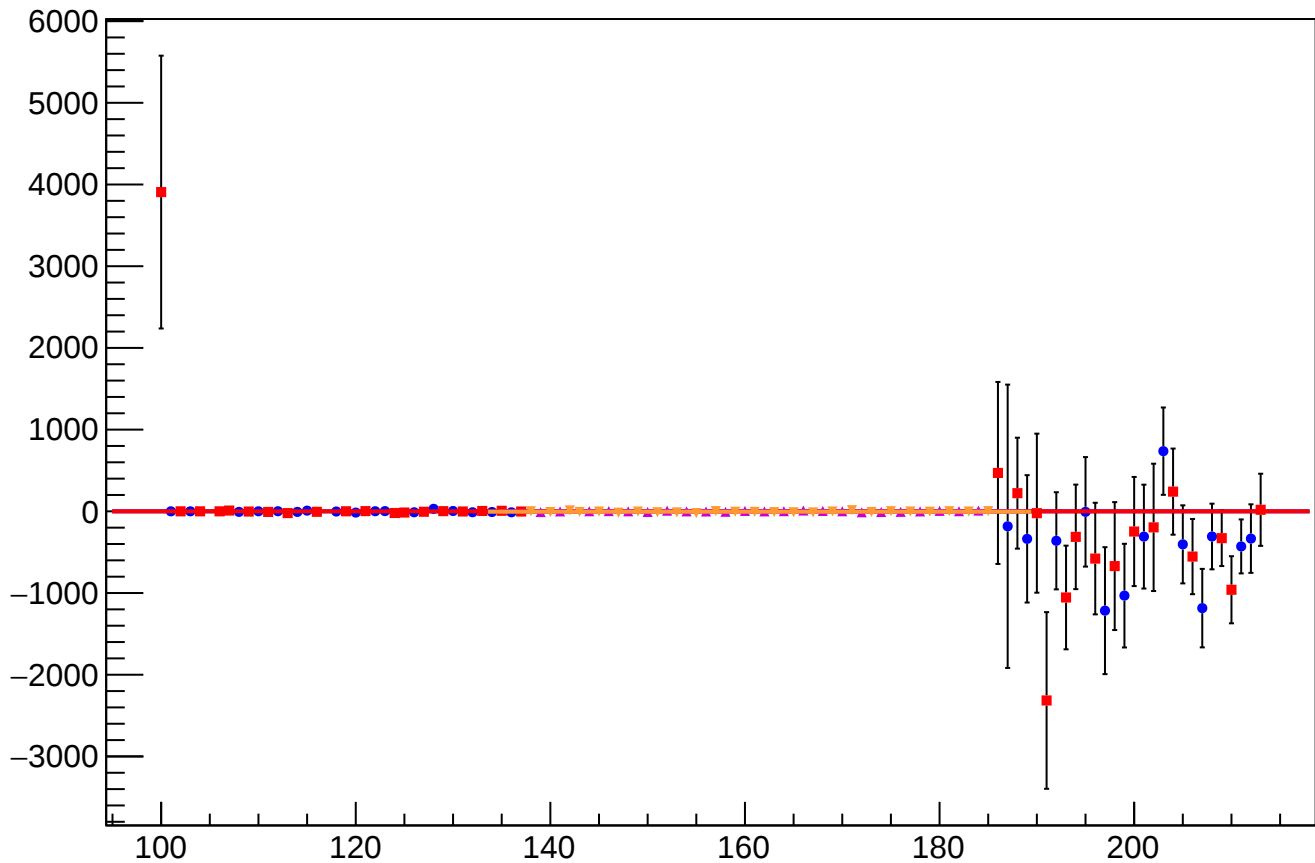
- sign 0.142 ± 0.114 χ^2/NDF : 72.1/56

diff_cav4cY_rms vs Slug



Right In: 639.612 $\pm$ 0.190	χ^2 /NDF: 20119941.8/29	+ sign 542.521 $\pm$ 0.079	χ^2 /NDF: 20767431.2/54
Left Out: 522.220 $\pm$ 0.087	χ^2 /NDF: 330405.3/24	All: 541.776 $\pm$ 0.056	χ^2 /NDF: 43061415.2/1
Right Out: 629.609 $\pm$ 0.186	χ^2 /NDF: 21588201.2/32	- sign 541.000 $\pm$ 0.080	χ^2 /NDF: 22293801.8/55
Left In: 520.700 $\pm$ 0.089	χ^2 /NDF: 427720.5/22		

diff_cav4dX_mean vs Slug



Right In: -0.022 ± 0.021 χ^2/NDF : 33.5/29

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

Right Out: -0.027 ± 0.020 χ^2/NDF : 35.0/33

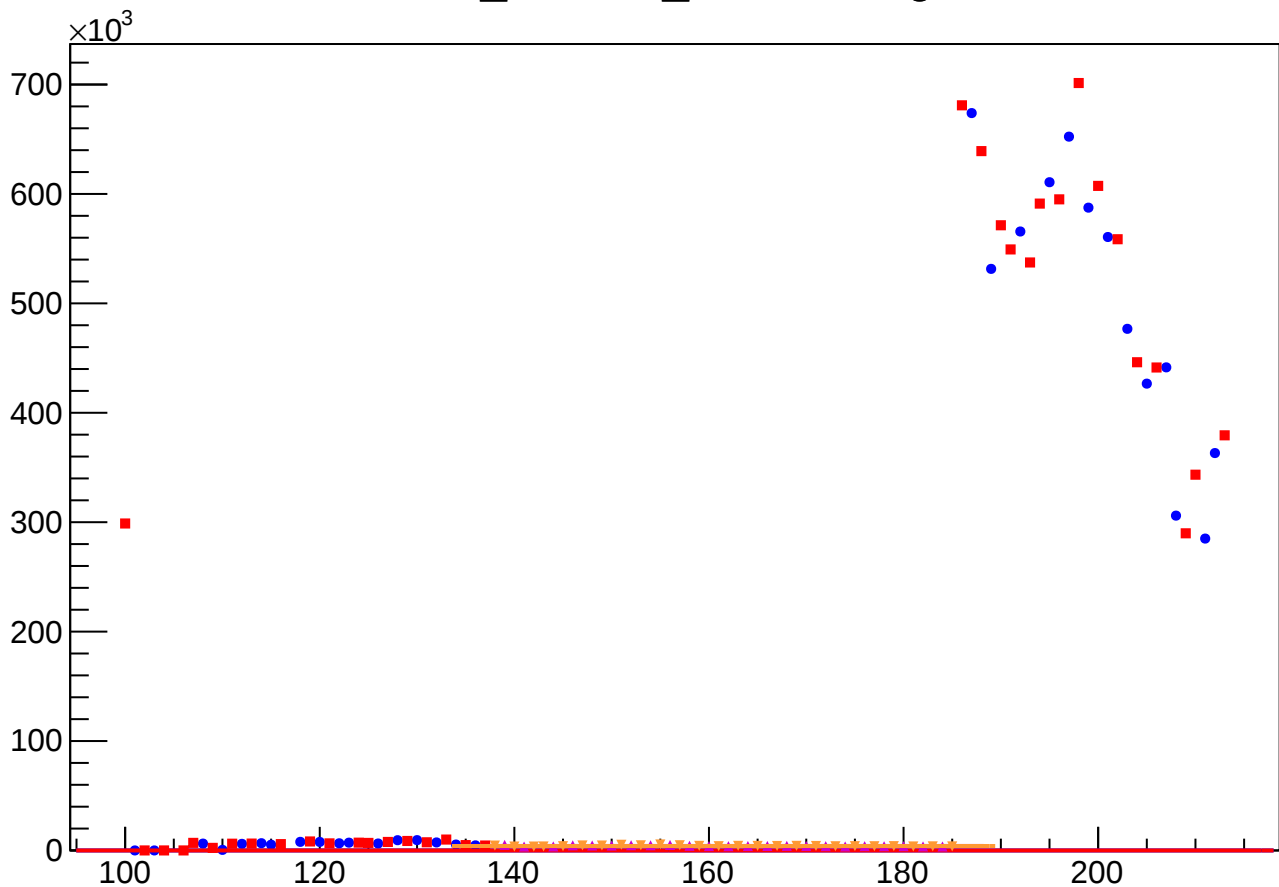
Left In: -0.183 ± 0.994 χ^2/NDF : 29.5/22

+ sign -0.024 ± 0.021 χ^2/NDF : 113.6/54

All: -0.025 ± 0.014 χ^2/NDF : 178.1/111

- sign -0.027 ± 0.020 χ^2/NDF : 64.5/56

diff_cav4dX_rms vs Slug



Right In: 17.348+/-0.015 χ^2 /NDF: 28865279.2/29

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

Right Out: 17.276+/-0.014 χ^2 /NDF: 31008993.5/33

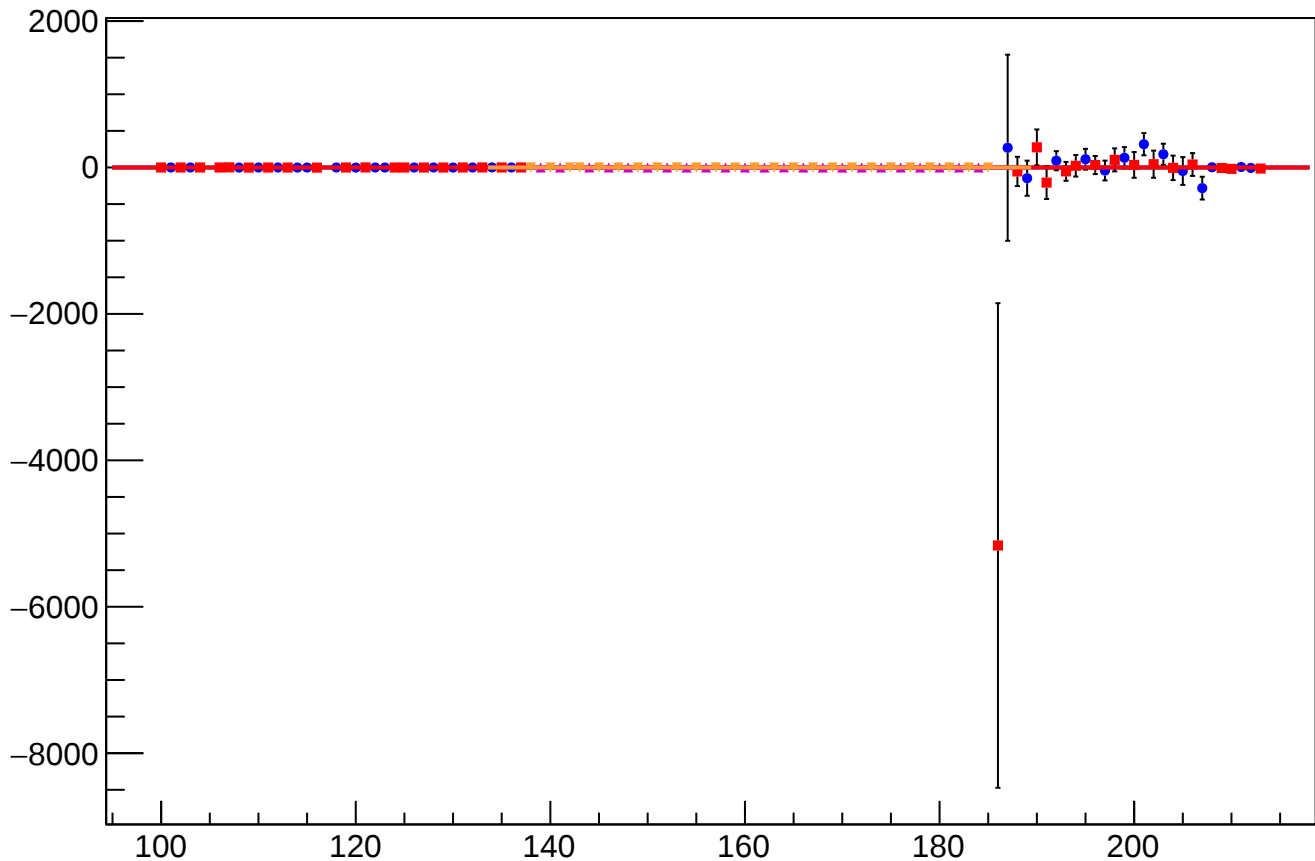
Left In: 4113.993+/-0.703 χ^2 /NDF:349160.6/22

+ sign 19.262+/-0.015 χ^2 /NDF: 65215294.8/54

All: 19.070+/-0.010 χ^2 /NDF: 130529624.1/11

- sign 18.896+/-0.014 χ^2 /NDF: 65314003.9/56

diff_cav4dY_mean vs Slug



Right In: 0.000 ± 0.002 χ^2/NDF : 27.2/29

Left Out: 0.148 ± 0.076 χ^2/NDF : 17.3/24

Right Out: 0.001 ± 0.002 χ^2/NDF : 35.7/33

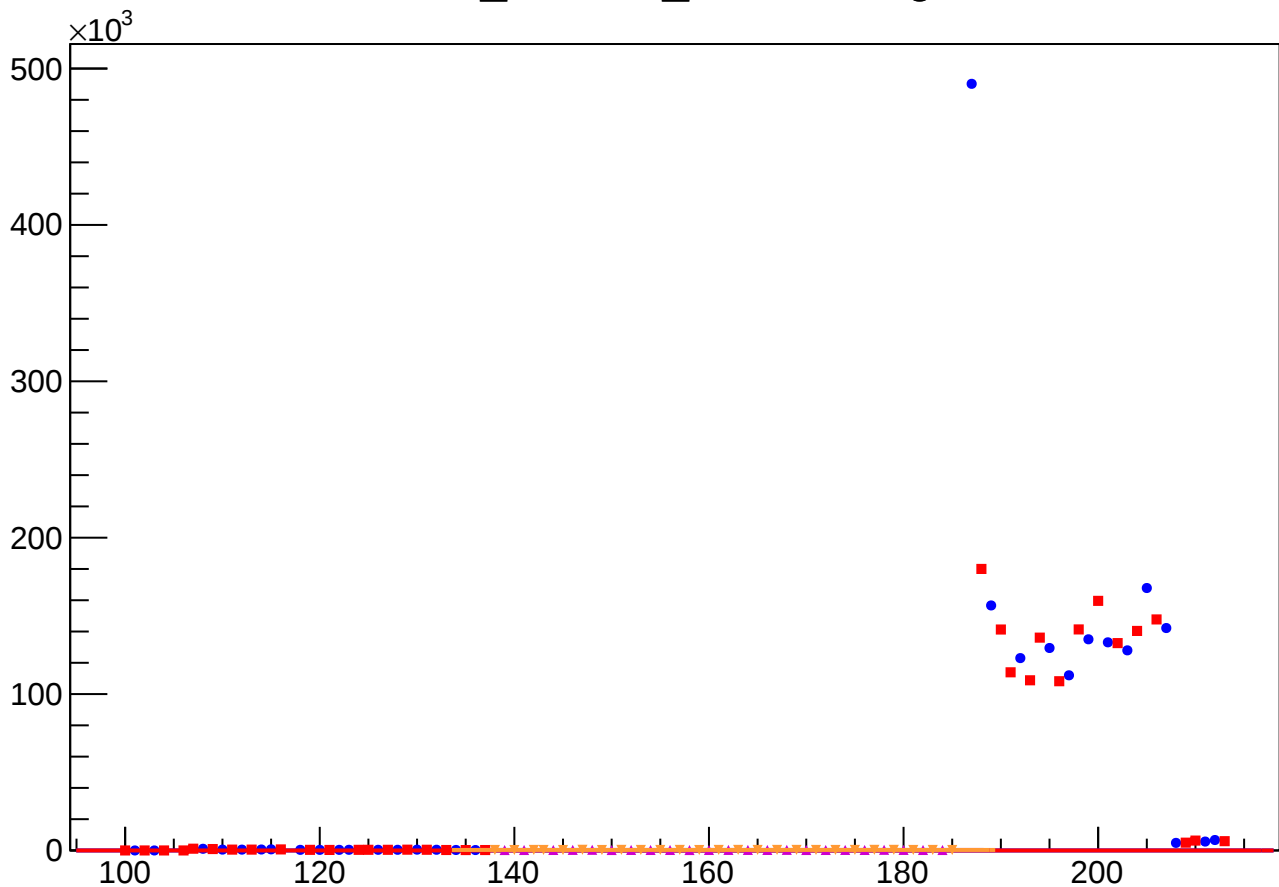
Left In: 0.080 ± 0.079 χ^2/NDF : 34.6/22

+ sign 0.000 ± 0.002 χ^2/NDF : 48.2/54

All: 0.001 ± 0.001 χ^2/NDF : 119.7/111

- sign 0.001 ± 0.002 χ^2/NDF : 71.4/56

diff_cav4dY_rms vs Slug



Right In: 1.701 ± 0.001 χ^2/NDF : 29131670.7/29

Left Out: 325.326 ± 0.054 χ^2/NDF : 347705.2/24

Right Out: 1.730 ± 0.001 χ^2/NDF : 29949251.2/32

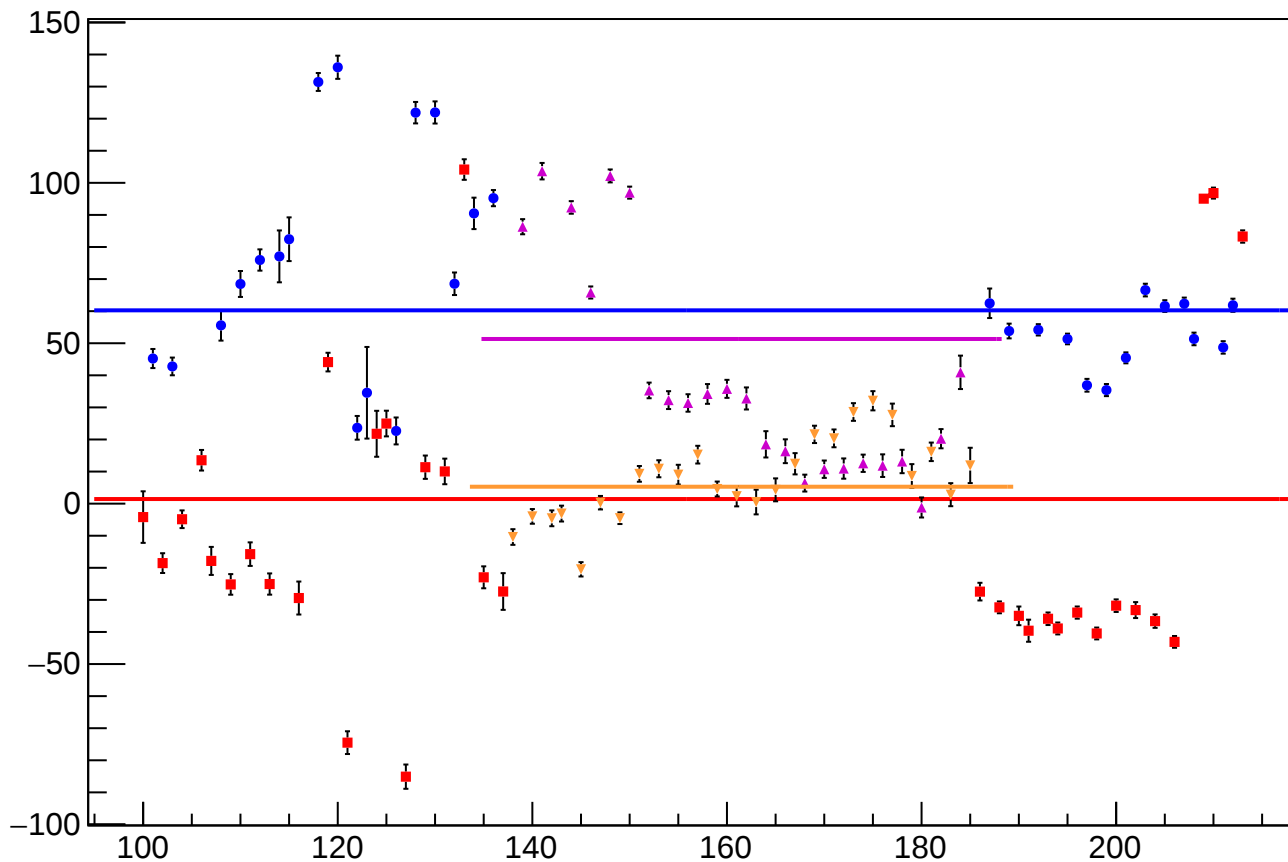
Left In: 325.626 ± 0.056 χ^2/NDF : 413350.0/22

+ sign 1.928 ± 0.001 χ^2/NDF : 65343205.7/54

All: 1.927 ± 0.001 χ^2/NDF : 129430052.8/110

- sign 1.925 ± 0.001 χ^2/NDF : 64086845.6/55

diff_bpm0i01X_mean vs Slug



Right In: 60.256 $\pm$ 0.464 χ^2 /NDF: 2777.5/29

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

Right Out: 1.437 $\pm$ 0.435 χ^2 /NDF: 16407.2/33

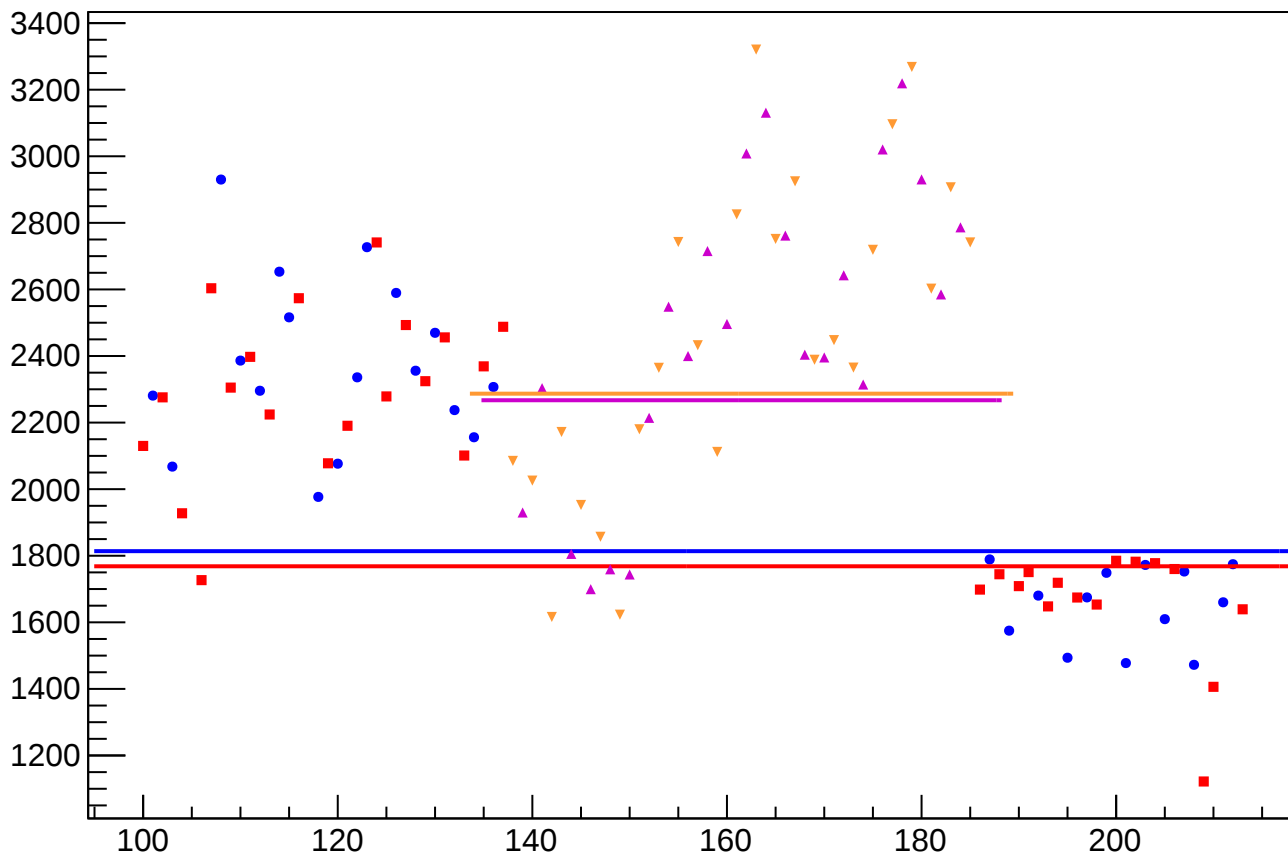
Left In: 51.328 $\pm$ 0.558 χ^2 /NDF: 4257.8/22

+ sign 37.136 $\pm$ 0.353 χ^2 /NDF: 9249.1/54

All: 28.472 $\pm$ 0.246 χ^2 /NDF: 36055.6/111

- sign 20.280 $\pm$ 0.343 χ^2 /NDF: 25633.6/56

diff_bpm0i01X_rms vs Slug



Right In: 1813.795+/-0.328 χ^2/NDF : 972979.6/29

Left Out: 2286.871+/-0.385 χ^2/NDF :1360490.8/24

Right Out: 1768.332+/-0.308 χ^2/NDF : 1357214.2/33

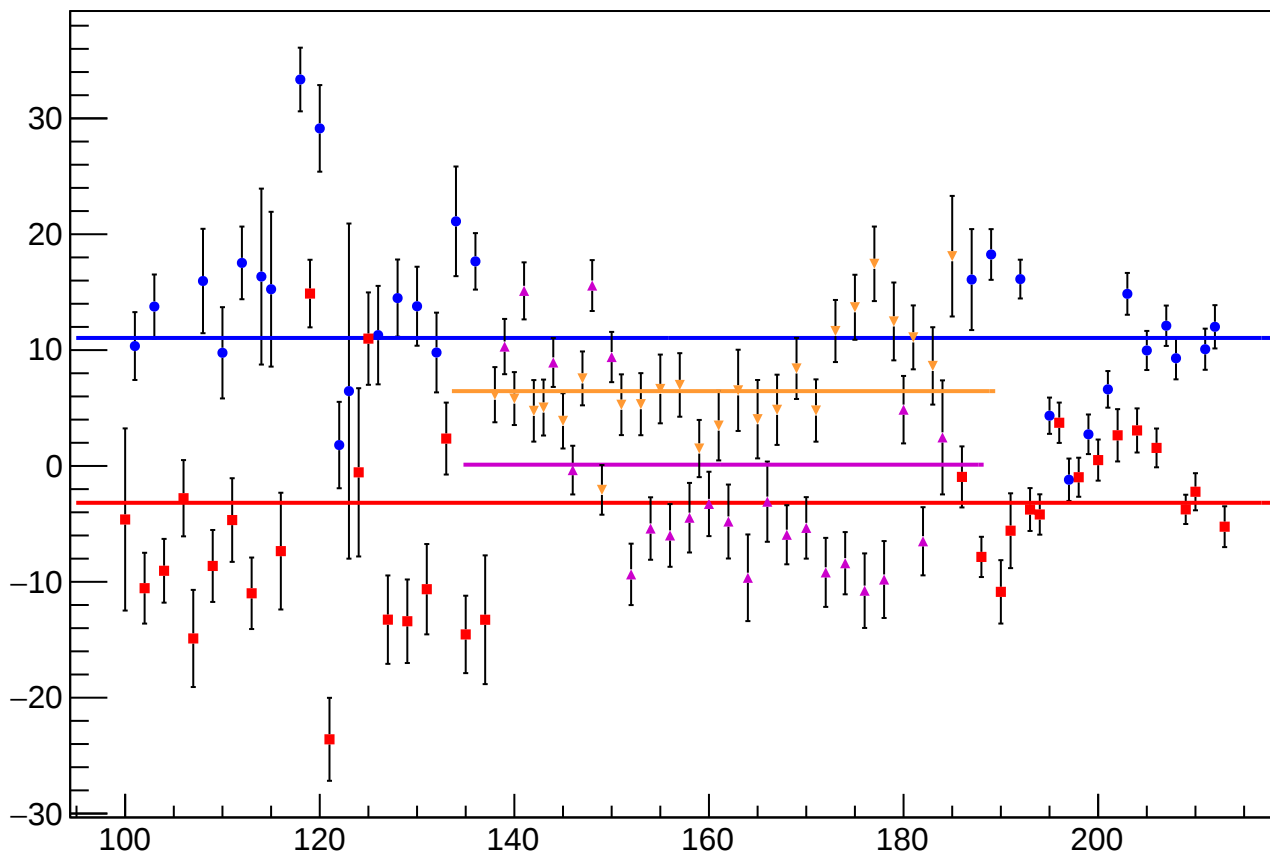
Left In: 2267.097+/-0.395 χ^2/NDF :1313364.4/22

+ sign 2012.726+/-0.250 χ^2/NDF : 3209390.7/54

All: 1983.930+/-0.174 χ^2/NDF : 6899048.3/11

- sign 1956.702+/-0.243 χ^2/NDF : 3663746.9/56

diff_bpm0i01Y_mean vs Slug



Right In: 11.049 ± 0.436 χ^2/NDF : 239.5/29

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

Right Out: -3.179 ± 0.410 χ^2/NDF : 214.9/33

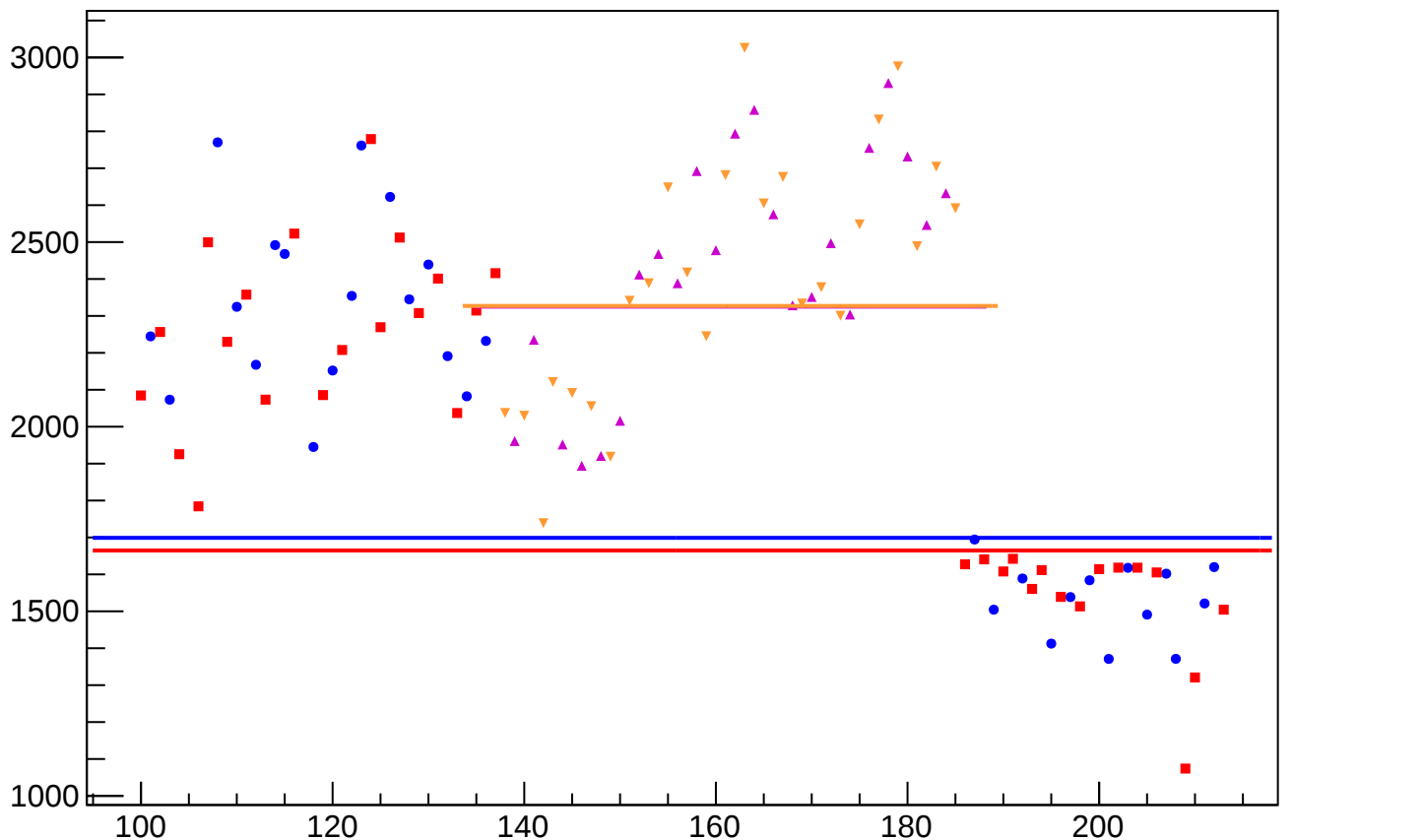
Left In: 0.110 ± 0.565 χ^2/NDF : 234.6/22

+ sign 9.270 ± 0.341 χ^2/NDF : 341.3/54

All: 3.466 ± 0.238 χ^2/NDF : 1378.1/111

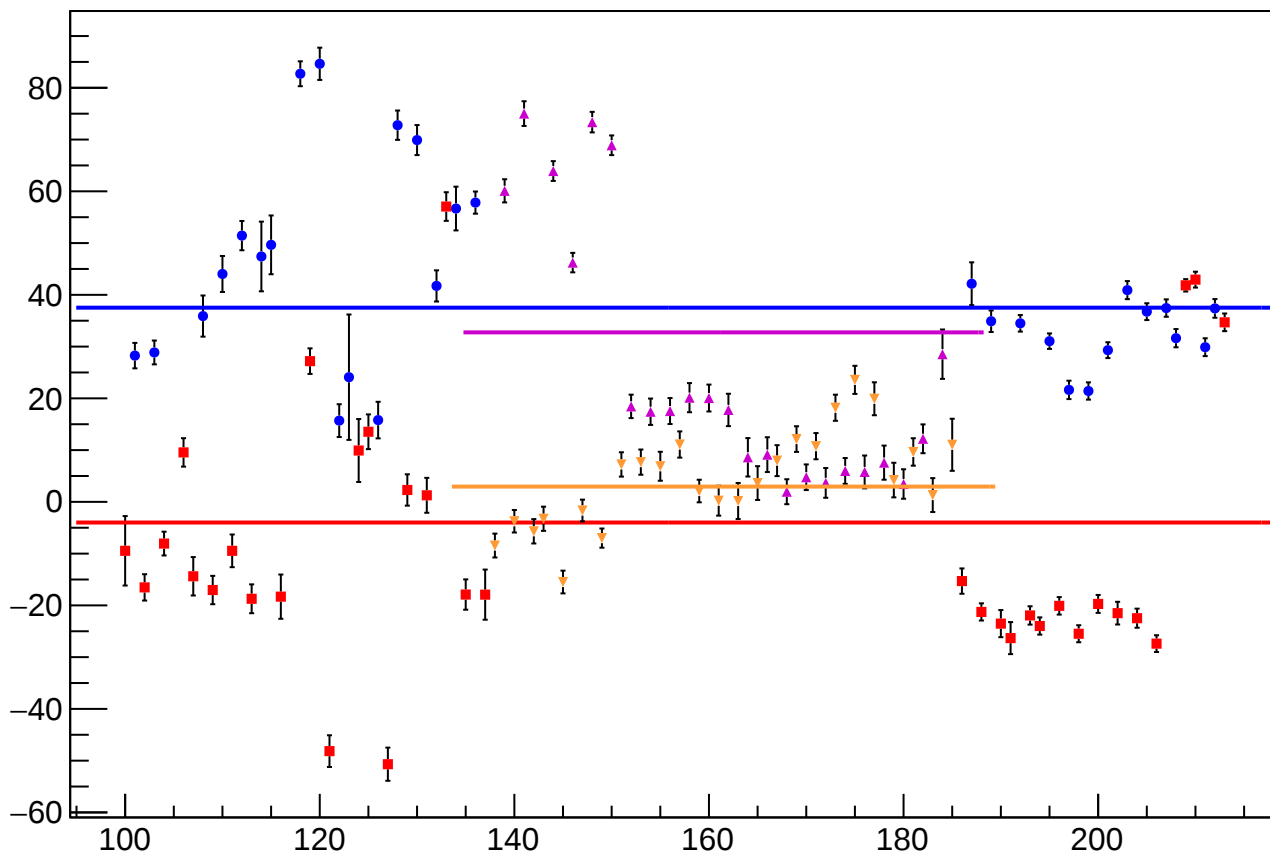
- sign -2.043 ± 0.332 χ^2/NDF : 471.6/56

diff_bpm0i01Y_rms vs Slug



Right In: 1698.958+/-0.308	χ^2/NDF : 1225186.9/29	+ sign 1942.333+/-0.241	χ^2/NDF : 3483731.5/54
Left Out: 2327.044+/-0.387	χ^2/NDF : 646706.7/24	All: 1916.869+/-0.168	χ^2/NDF : 7462253.1/11
Right Out: 1664.642+/-0.290	χ^2/NDF : 1557281.2/33	- sign 1892.699+/-0.235	χ^2/NDF : 3956764.1/56
Left In: 2325.175+/-0.400	χ^2/NDF : 610729.2/22		

diff_bpm0i01aX_mean vs Slug



Right In: 37.521 ± 0.407 χ^2/NDF : 1385.1/29

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

Right Out: -3.992 ± 0.383 χ^2/NDF : 5376.2/33

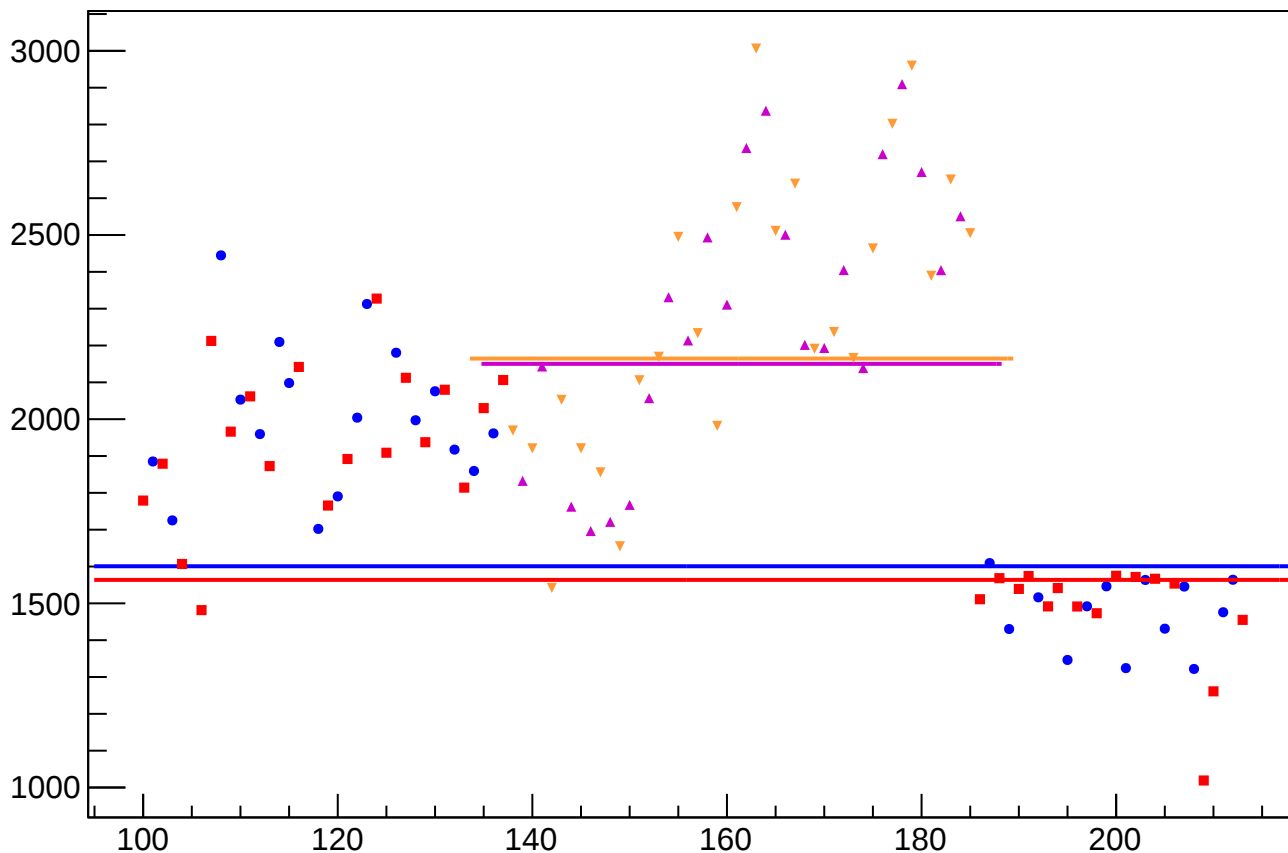
Left In: 32.745 ± 0.526 χ^2/NDF : 2632.5/22

+ sign 24.123 ± 0.319 χ^2/NDF : 4515.5/54

All: 16.202 ± 0.222 χ^2/NDF : 16912.2/111

- sign 8.728 ± 0.310 χ^2/NDF : 11196.2/56

diff_bpm0i01aX_rms vs Slug



Right In: 1600.709 ± 0.288 χ^2/NDF : 742069.9/29

Left Out: 2164.573 ± 0.362 χ^2/NDF : 965603.5/24

Right Out: 1563.701 ± 0.271 χ^2/NDF : 1080834.6/33

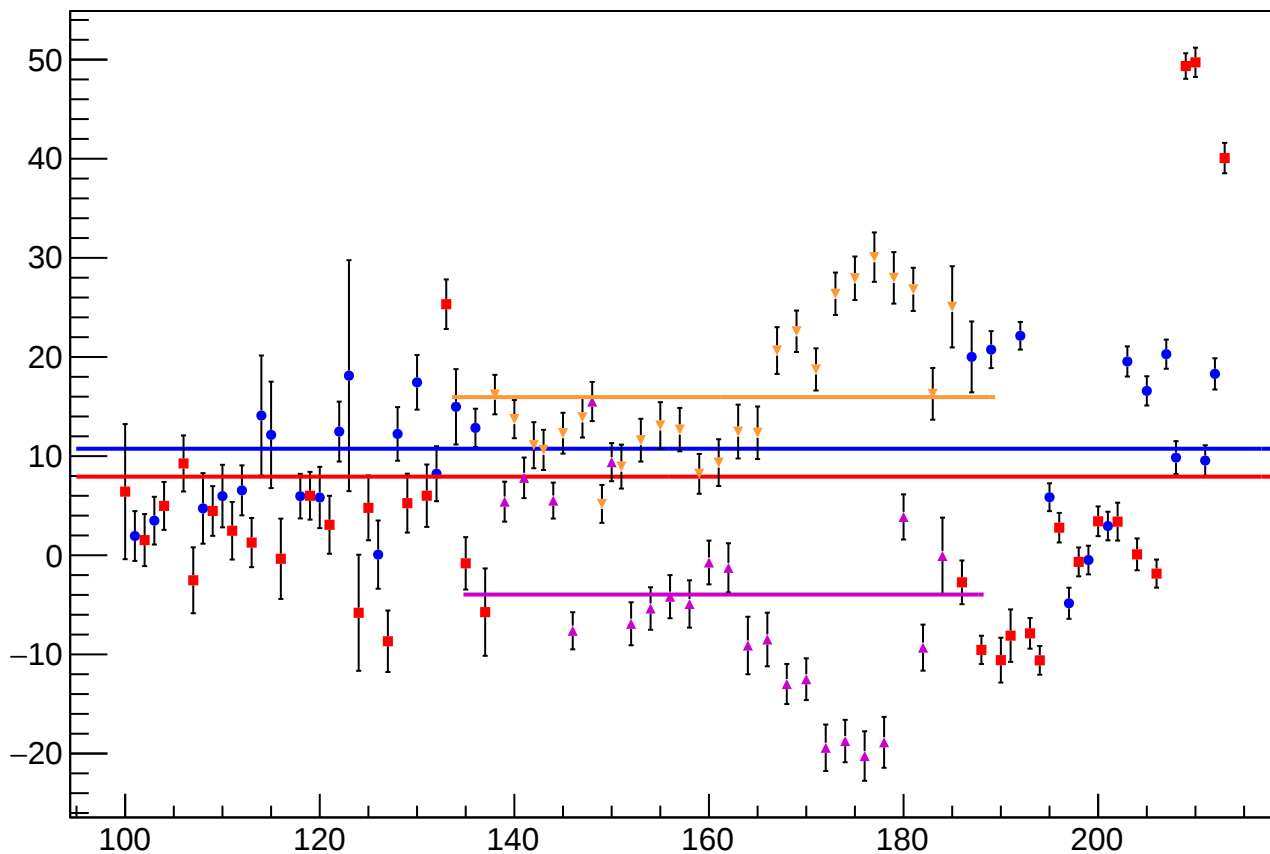
Left In: 2150.190 ± 0.372 χ^2/NDF : 911849.7/22

+ sign 1819.247 ± 0.225 χ^2/NDF : 3193681.9/54

All: 1792.245 ± 0.157 χ^2/NDF : 6839055.0/11

- sign 1766.767 ± 0.219 χ^2/NDF : 3617470.3/56

diff_bpm0i01aY_mean vs Slug



Right In: 10.748 $\pm$ 0.371 χ^2 /NDF: 474.5/29

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

Right Out: 7.930 $\pm$ 0.352 χ^2 /NDF: 3091.7/33

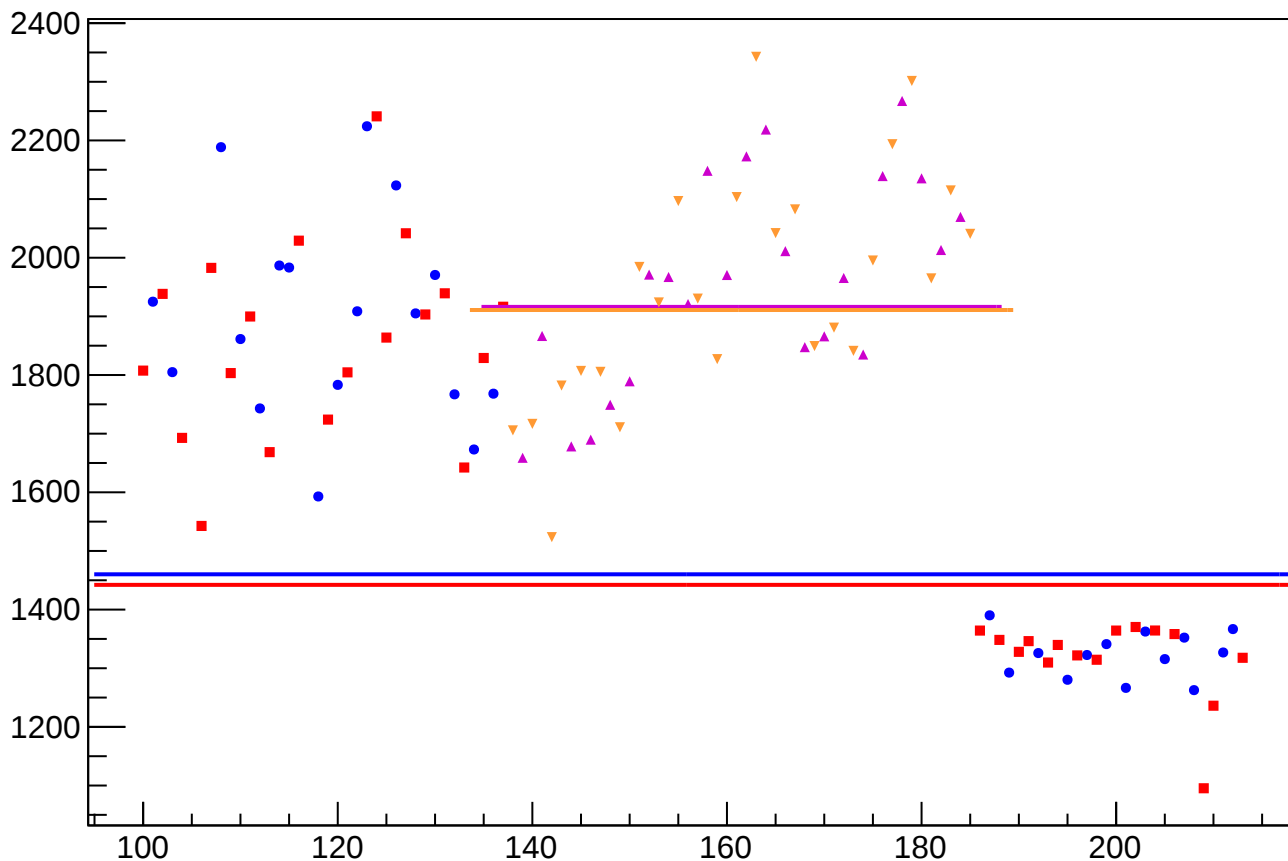
Left In: -3.960 $\pm$ 0.463 χ^2 /NDF:464.9/22

+ sign 12.870 $\pm$ 0.286 χ^2 /NDF: 799.9/54

All: 8.133 $\pm$ 0.200 χ^2 /NDF: 5314.7/111

- sign 3.577 $\pm$ 0.280 χ^2 /NDF: 3975.0/56

diff_bpm0i01aY_rms vs Slug



Right In: 1460.177 $\pm$ 0.262 χ^2 /NDF: 867385.5/29

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

Right Out: 1442.173 $\pm$ 0.249 χ^2 /NDF: 973059.8/33

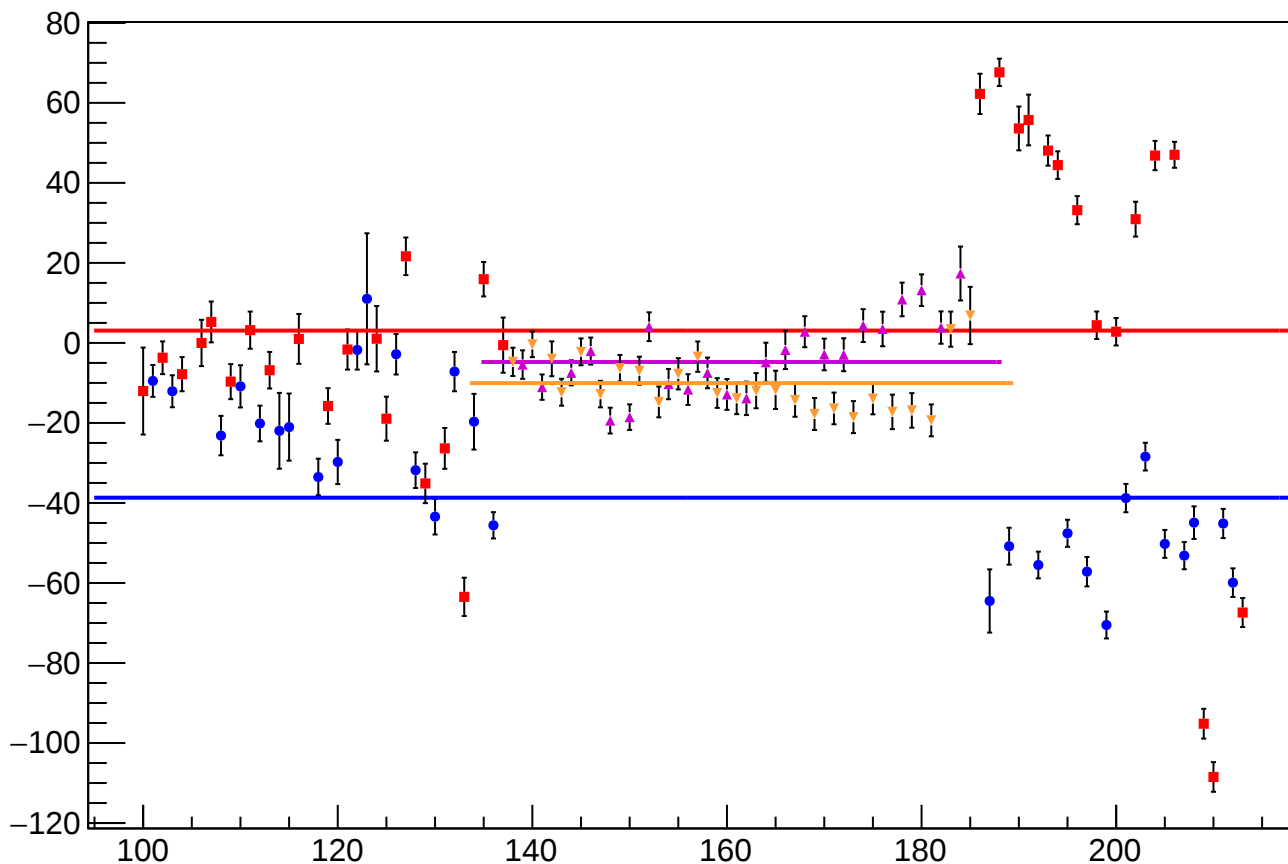
Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF:274285.3/22

+ sign 1643.778 $\pm$ 0.202 χ^2 /NDF: 2399006.0/54

All: 1629.471 $\pm$ 0.141 χ^2 /NDF: 4985815.8/11

- sign 1615.711 $\pm$ 0.198 χ^2 /NDF: 2576961.4/56

diff_bpm0l01X_mean vs Slug



Right In: -38.688 ± 0.779 χ^2/NDF : 580.1/29

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

Right Out: 3.083 ± 0.750 χ^2/NDF : 3726.8/33

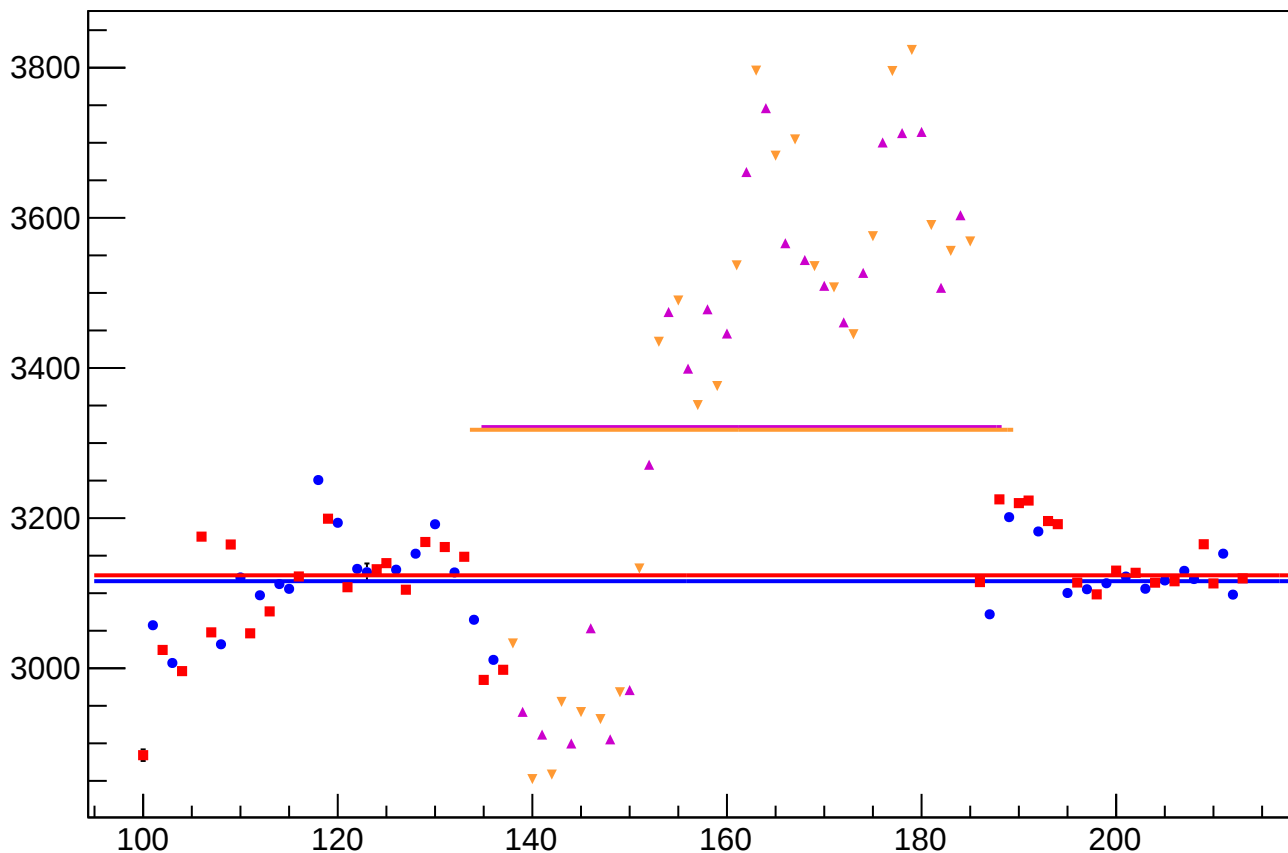
Left In: -4.774 ± 0.800 χ^2/NDF : 128.5/22

+ sign -24.308 ± 0.550 χ^2/NDF : 1325.3/54

All: -12.392 ± 0.388 χ^2/NDF : 6166.1/111

- sign -0.591 ± 0.547 χ^2/NDF : 3906.6/56

diff_bpm0l01X_rms vs Slug



Right In: 3116.018 $\pm$ 0.551 χ^2 /NDF: 9487.3/29

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

Right Out: 3123.817 $\pm$ 0.530 χ^2 /NDF: 14038.2/33

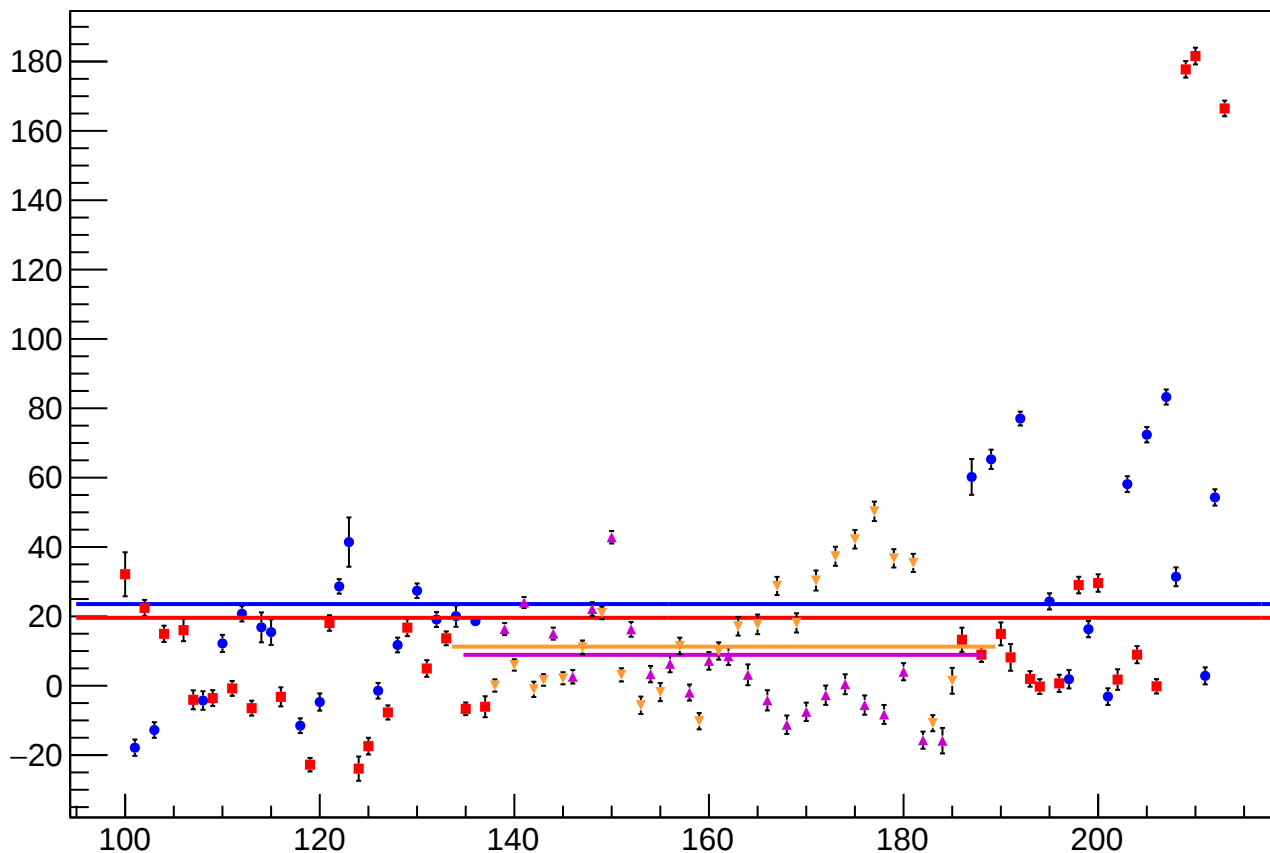
Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF: 284334.2/22

+ sign 3217.257 $\pm$ 0.389 χ^2 /NDF: 413585.1/54

All: 3216.699 $\pm$ 0.274 χ^2 /NDF: 776755.1/111

- sign 3216.146 $\pm$ 0.387 χ^2 /NDF: 363166.0/56

diff_bpm0l01Y_mean vs Slug



Right In: 23.548 $\pm$ 0.431 χ^2 /NDF: 4203.6/29

Left Out: 11.268 $\pm$ 0.454 χ^2 /NDF:1141.8/24

Right Out: 19.584 $\pm$ 0.417 χ^2 /NDF: 15369.0/33

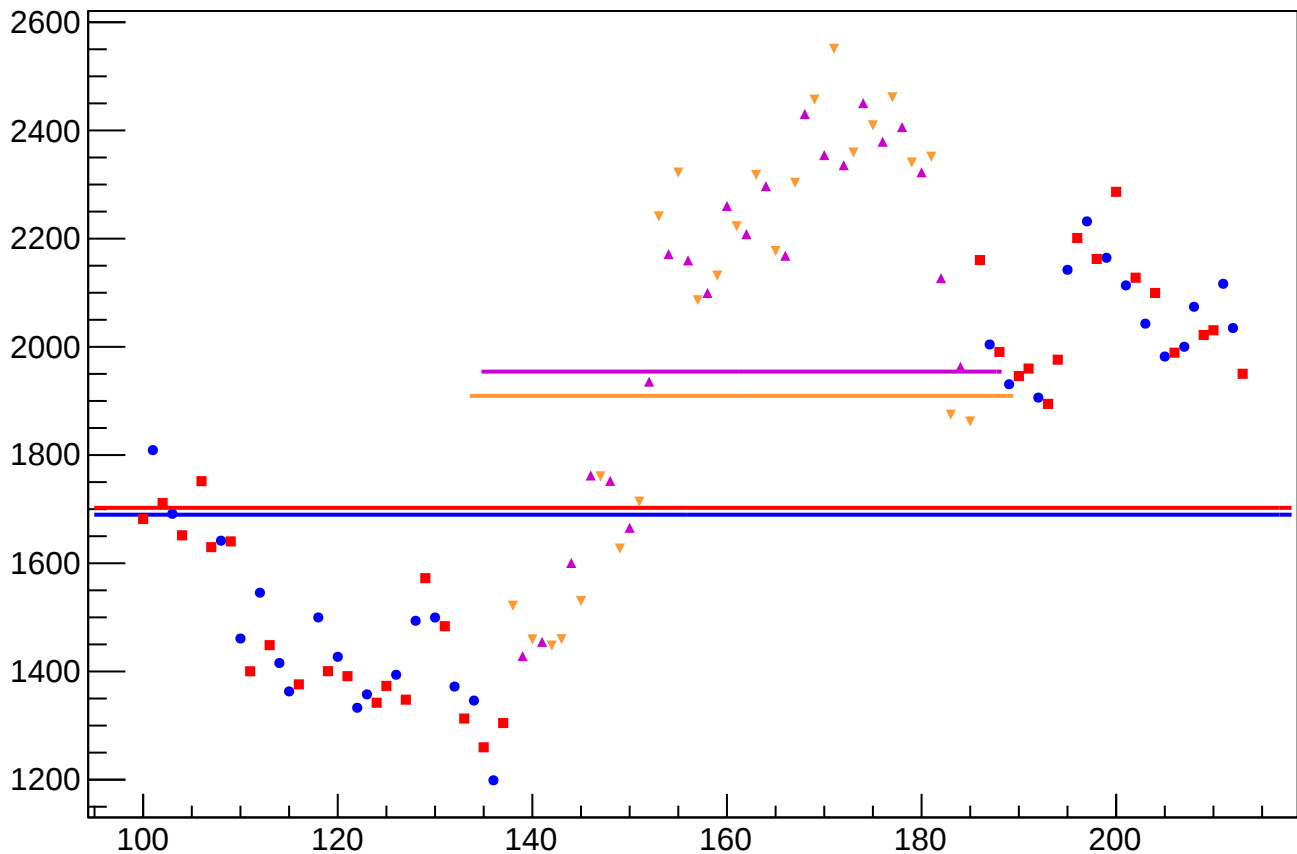
Left In: 8.905 $\pm$ 0.478 χ^2 /NDF:936.3/22

+ sign 17.725 $\pm$ 0.313 χ^2 /NDF: 5729.4/54

All: 16.351 $\pm$ 0.222 χ^2 /NDF: 22357.4/111

- sign 14.968 $\pm$ 0.314 χ^2 /NDF: 16589.3/56

diff_bpm0l01Y_rms vs Slug



Right In: 1689.765 $\pm$ 0.305 χ^2 /NDF: 1187662.1/29

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

Right Out: 1702.492 $\pm$ 0.295 χ^2 /NDF: 1183216.8/33

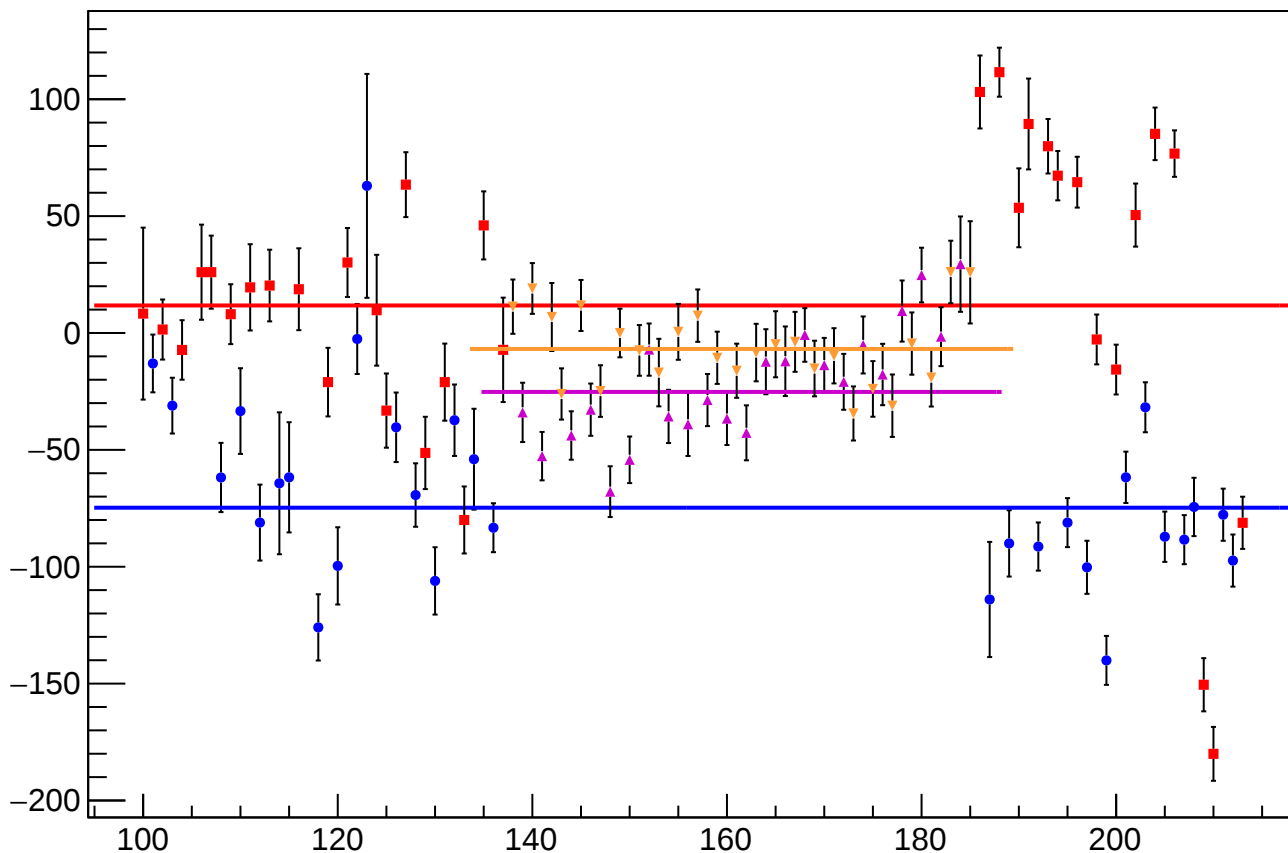
Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

+ sign 1793.903 $\pm$ 0.221 χ^2 /NDF: 2831870.4/54

All: 1802.573 $\pm$ 0.157 χ^2 /NDF: 5378599.9/11

- sign 1811.301 $\pm$ 0.222 χ^2 /NDF: 2543647.8/56

diff_bpm0l02X_mean vs Slug



Right In: -74.748 ± 2.419 χ^2/NDF : 184.8/29

Left Out: -6.825 ± 2.423 χ^2/NDF : 42.3/24

Right Out: 11.773 ± 2.330 χ^2/NDF : 984.9/33

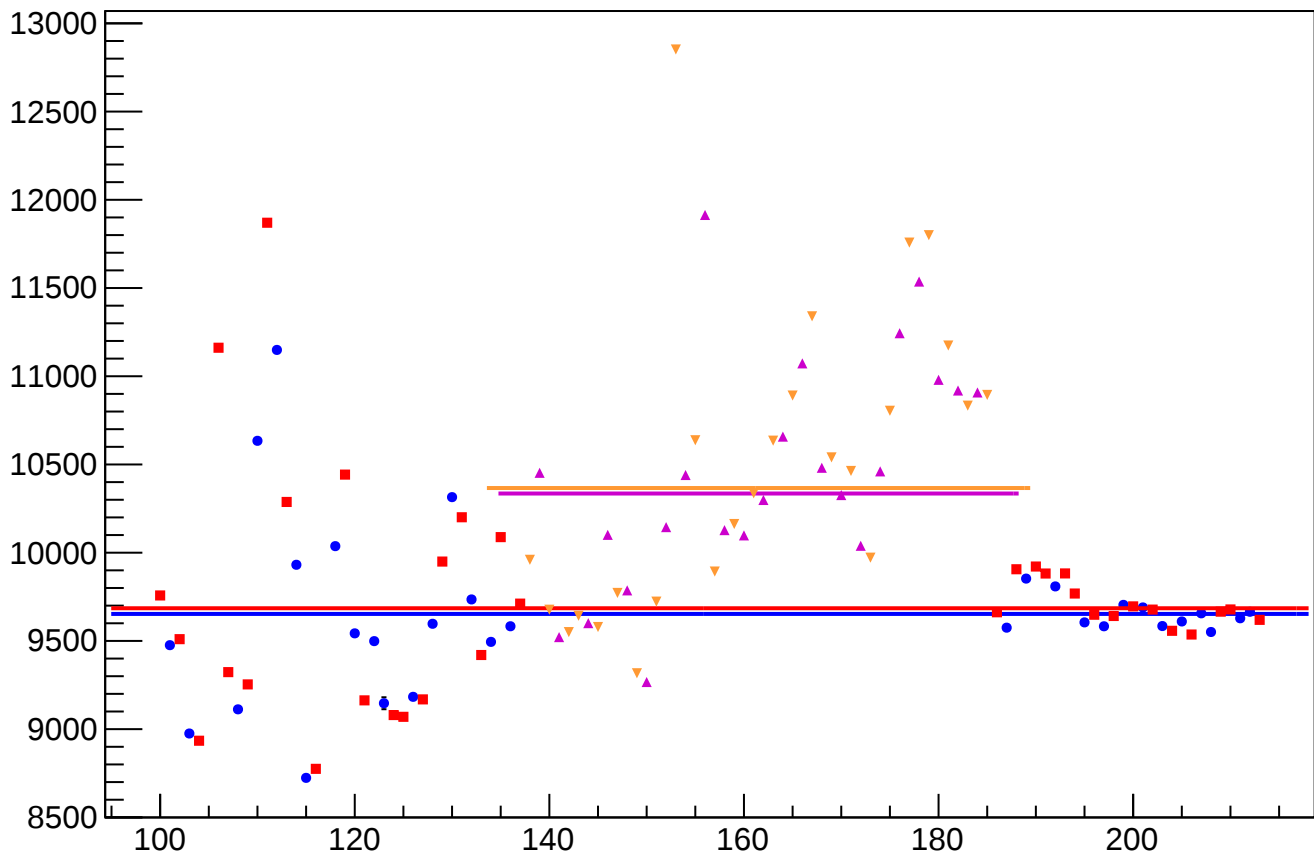
Left In: -25.215 ± 2.487 χ^2/NDF : 89.3/22

+ sign -40.841 ± 1.712 χ^2/NDF : 620.9/54

All: -23.064 ± 1.206 χ^2/NDF : 2027.1/111

- sign -5.522 ± 1.700 χ^2/NDF : 1191.9/56

diff_bpm0l02X_rms vs Slug



Right In: 9652.984+/-1.710 χ^2/NDF : 45328.9/29

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

Right Out: 9685.110+/-1.648 χ^2/NDF : 80423.2/33

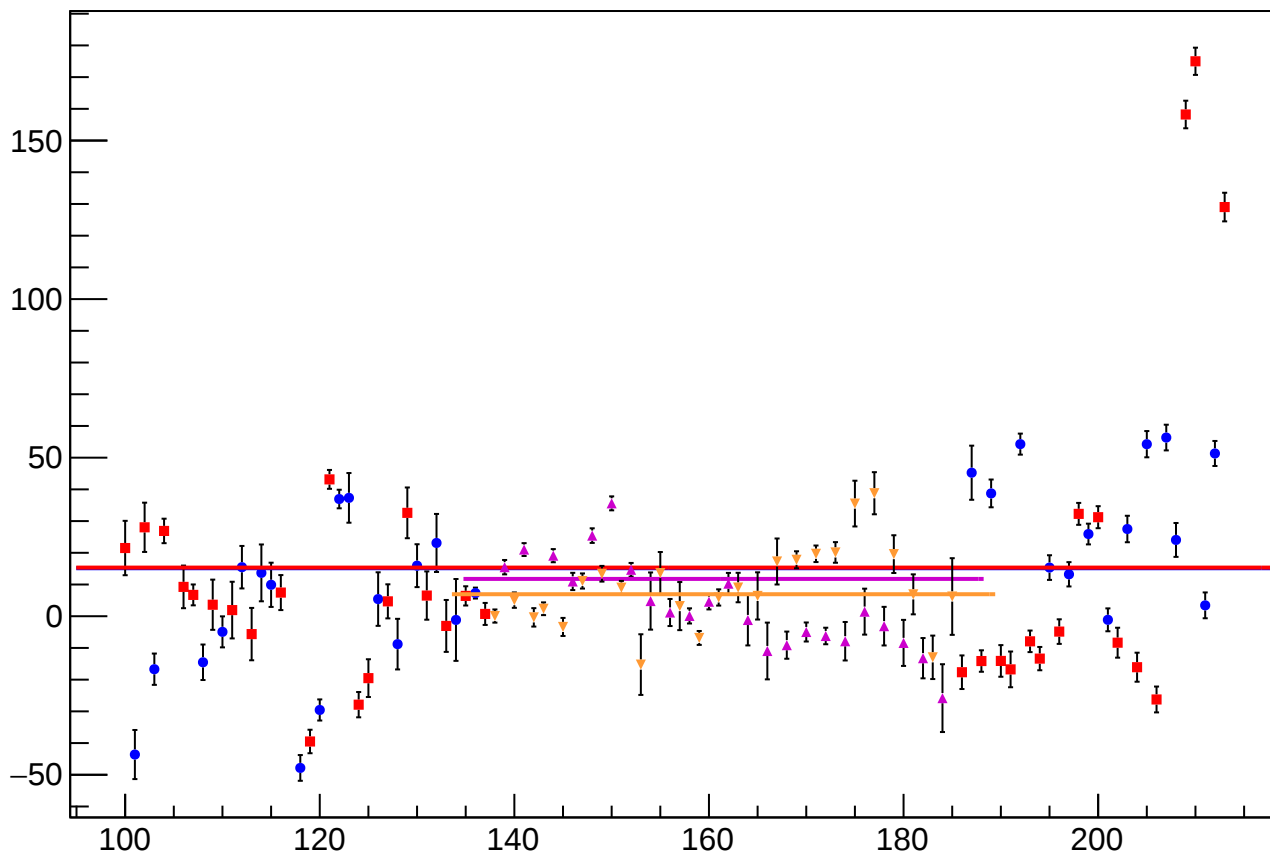
Left In: 10335.399+/-1.758 χ^2/NDF : 127173.0/22

+ sign 10009.187+/-1.210 χ^2/NDF : 343628.7/54

All: 9999.113+/-0.853 χ^2/NDF : 624188.7/111

- sign 9989.171+/-1.202 χ^2/NDF : 280422.4/56

diff_bpm0l02Y_mean vs Slug



Right In: 15.133 $\pm$ 0.773 χ^2 /NDF: 1171.4/29

Left Out: 6.939 $\pm$ 0.639 χ^2 /NDF: 203.8/24

Right Out: 15.335 $\pm$ 0.759 χ^2 /NDF: 4166.7/33

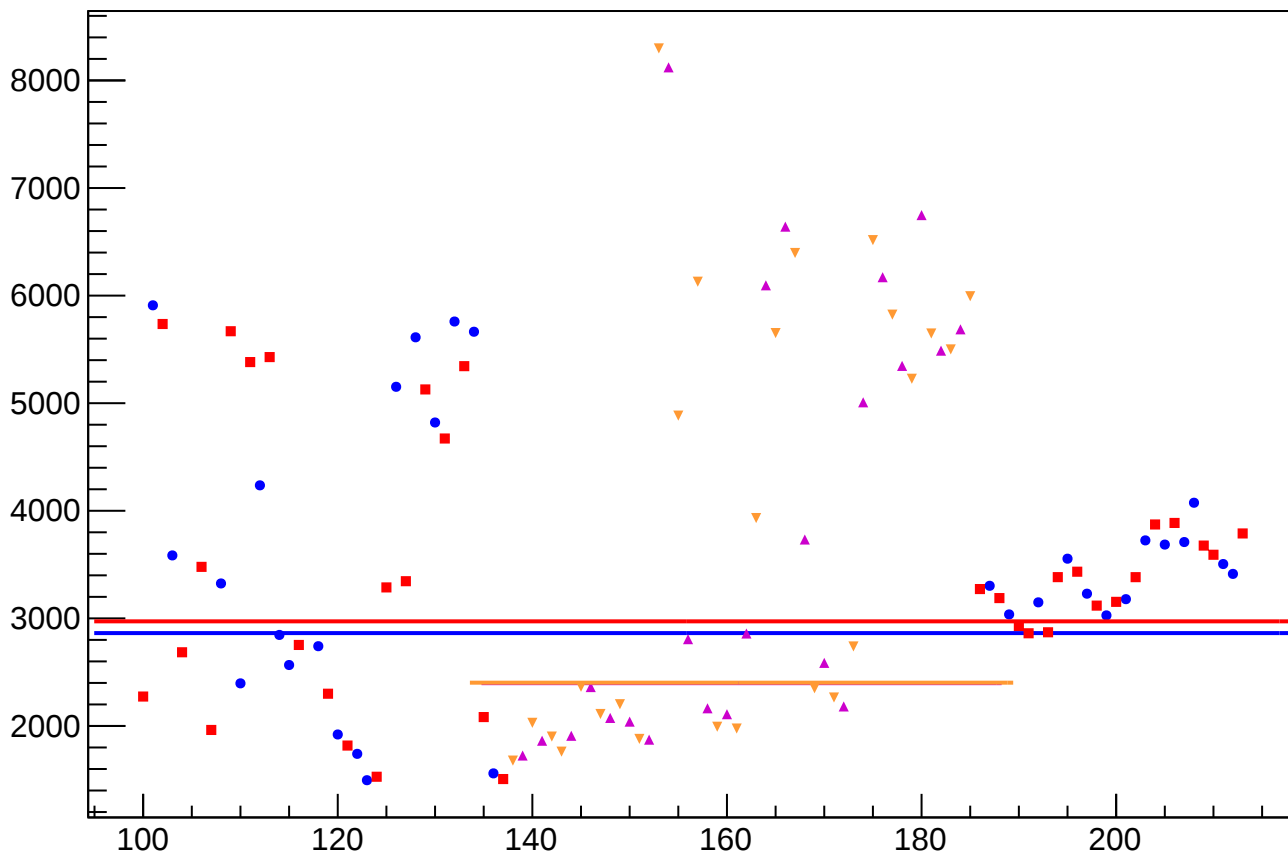
Left In: 11.766 $\pm$ 0.648 χ^2 /NDF: 395.1/22

+ sign 10.266 $\pm$ 0.492 χ^2 /NDF: 1442.0/54

All: 11.767 $\pm$ 0.348 χ^2 /NDF: 6035.2/111

- sign 13.272 $\pm$ 0.493 χ^2 /NDF: 4574.6/56

diff_bpm0l02Y_rms vs Slug



Right In: 2863.205+/-0.546 χ^2/NDF : 3552372.9/29

Left Out: 2402.359+/-0.452 χ^2/NDF : 6345982.8/24

Right Out: 2972.378+/-0.537 χ^2/NDF : 3052955.4/33

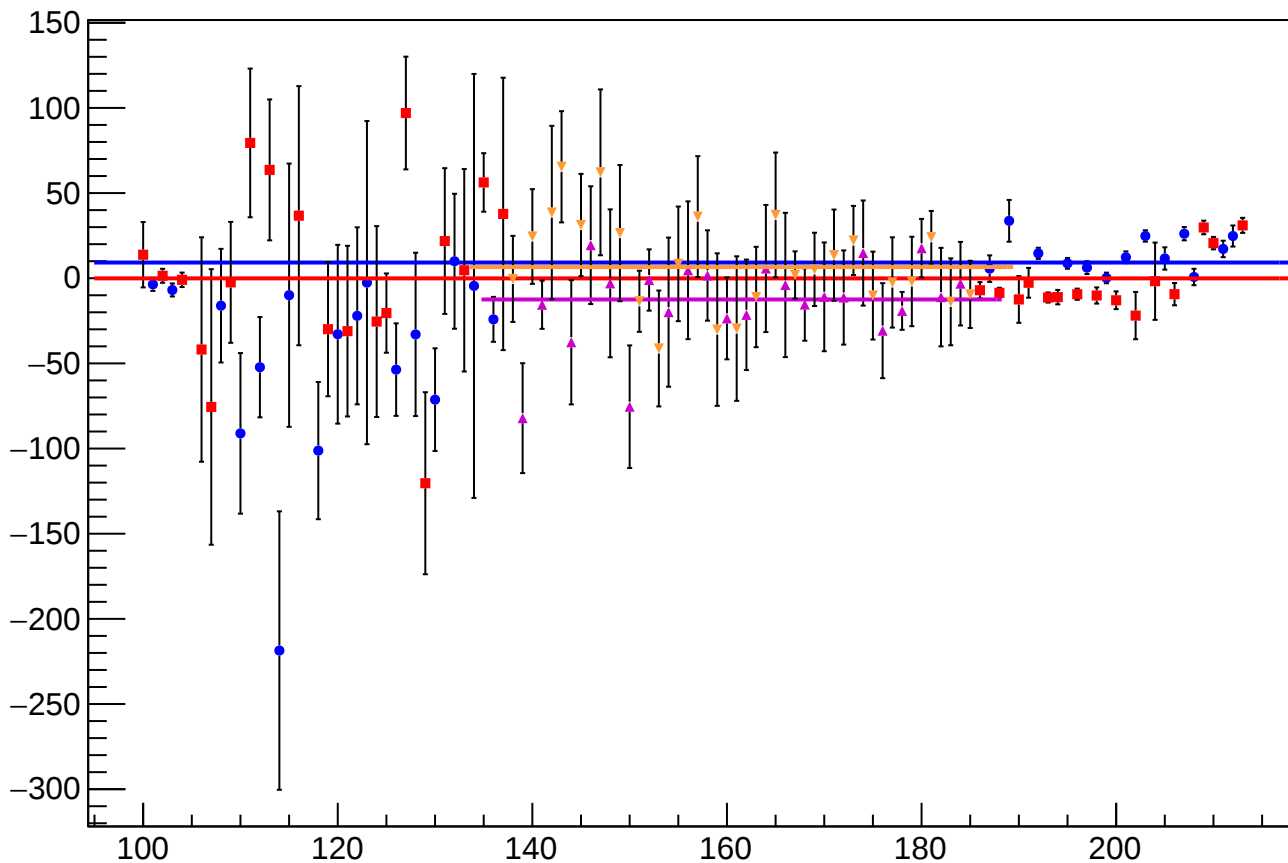
Left In: 2397.701+/-0.458 χ^2/NDF : 5398920.1/22

+ sign 2589.474+/-0.348 χ^2/NDF : 10321055.0/54

All: 2614.783+/-0.246 χ^2/NDF : 19446457.9/100

- sign 2640.162+/-0.349 χ^2/NDF : 9114815.3/56

diff_bpm0l03X_mean vs Slug



Right In: 9.212 ± 1.047 χ^2/NDF : 144.0/29

Left Out: 6.560 ± 5.077 χ^2/NDF : 16.8/24

Right Out: -0.090 ± 1.076 χ^2/NDF : 227.5/33

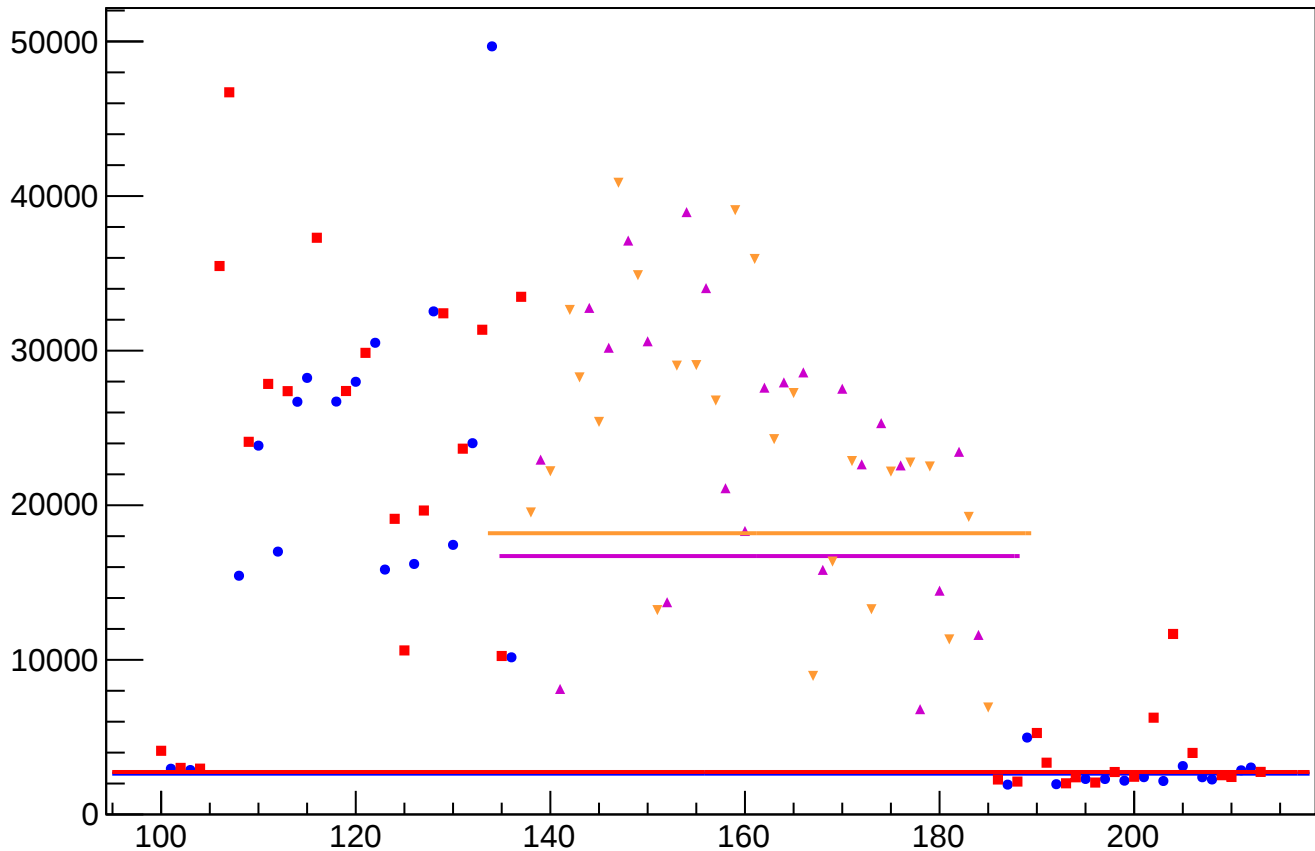
Left In: -12.469 ± 5.025 χ^2/NDF : 15.4/22

+ sign 9.103 ± 1.026 χ^2/NDF : 161.0/54

All: 4.358 ± 0.734 χ^2/NDF : 453.7/111

- sign -0.632 ± 1.052 χ^2/NDF : 248.7/56

diff_bpm0l03X_rms vs Slug



Right In: 2639.087 ± 0.741 $\chi^2/\text{NDF}: 7010836.1/29$

Left Out: 18190.387 ± 3.590 $\chi^2/\text{NDF}: 5261328.5/24$

Right Out: 2746.995 ± 0.761 $\chi^2/\text{NDF}: 9079684.0/33$

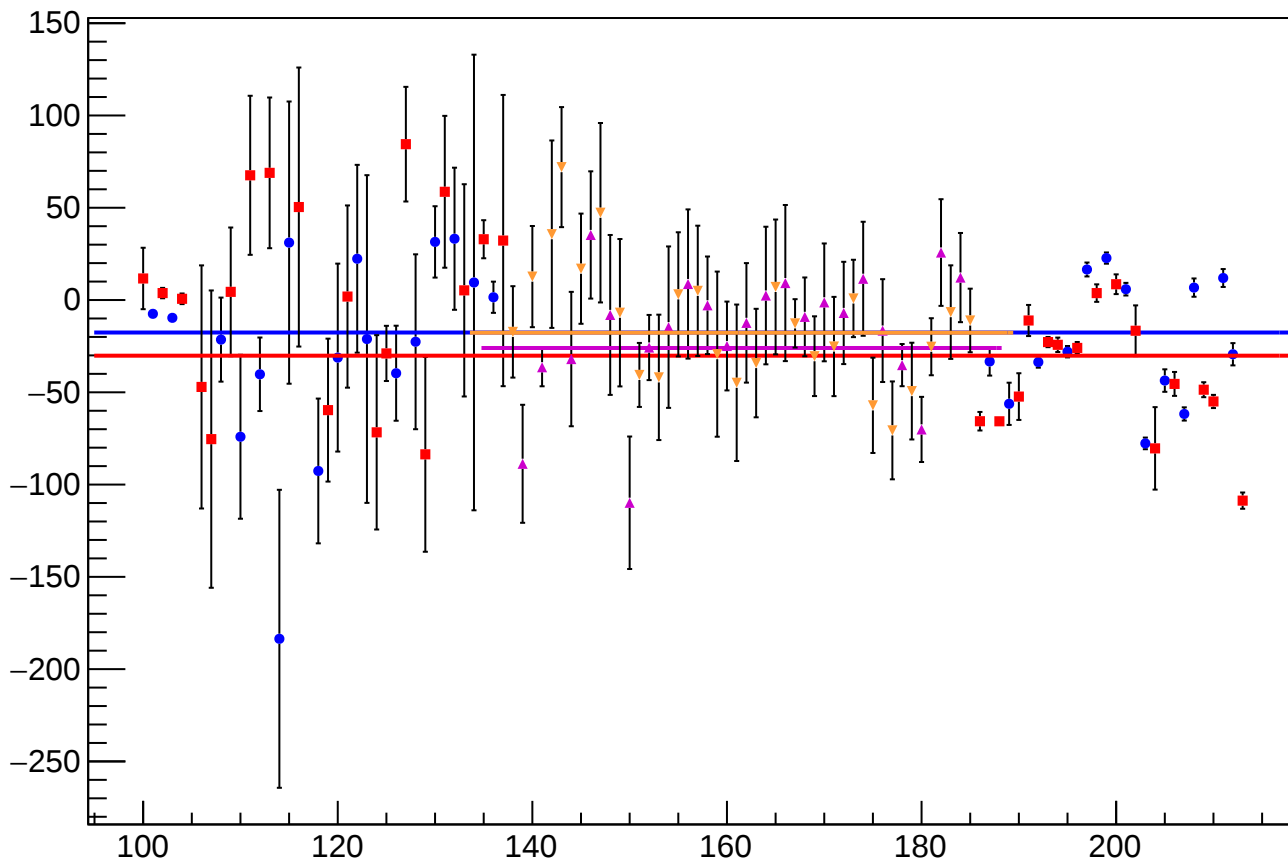
Left In: 16713.653 ± 3.553 $\chi^2/\text{NDF}: 6194178.8/22$

+ sign 3273.738 ± 0.725 $\chi^2/\text{NDF}: 30268336.4/54$

All: 3315.293 ± 0.519 $\chi^2/\text{NDF}: 60320786.2/100$

- sign 3359.000 ± 0.744 $\chi^2/\text{NDF}: 30045714.6/56$

diff_bpm0l03Y_mean vs Slug



Right In: -17.605 ± 0.939 χ^2/NDF : 1005.0/29

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

Right Out: -30.157 ± 0.970 χ^2/NDF : 1083.7/33

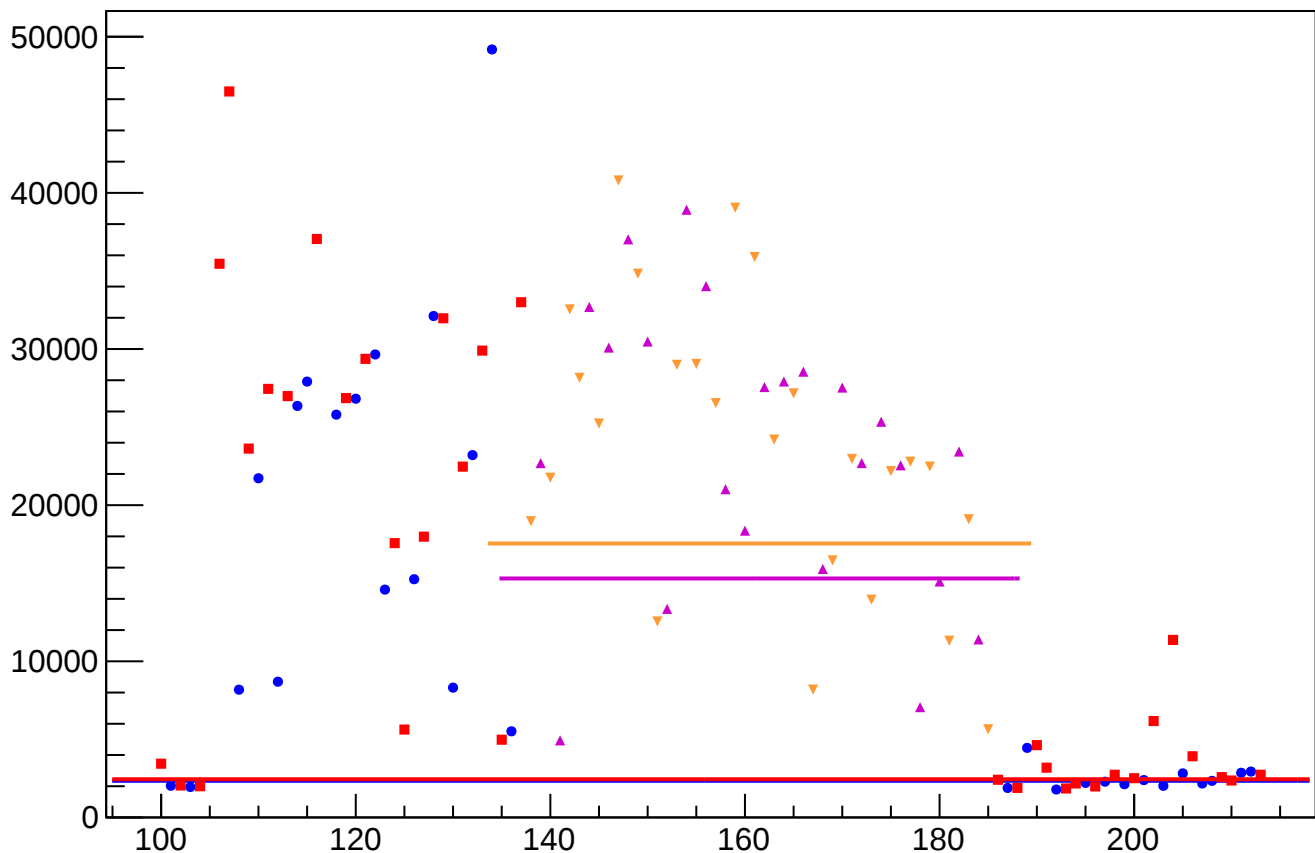
Left In: -25.991 ± 4.789 χ^2/NDF : 32.6/22

+ sign -17.609 ± 0.923 χ^2/NDF : 1032.2/54

All: -23.617 ± 0.662 χ^2/NDF : 2236.6/111

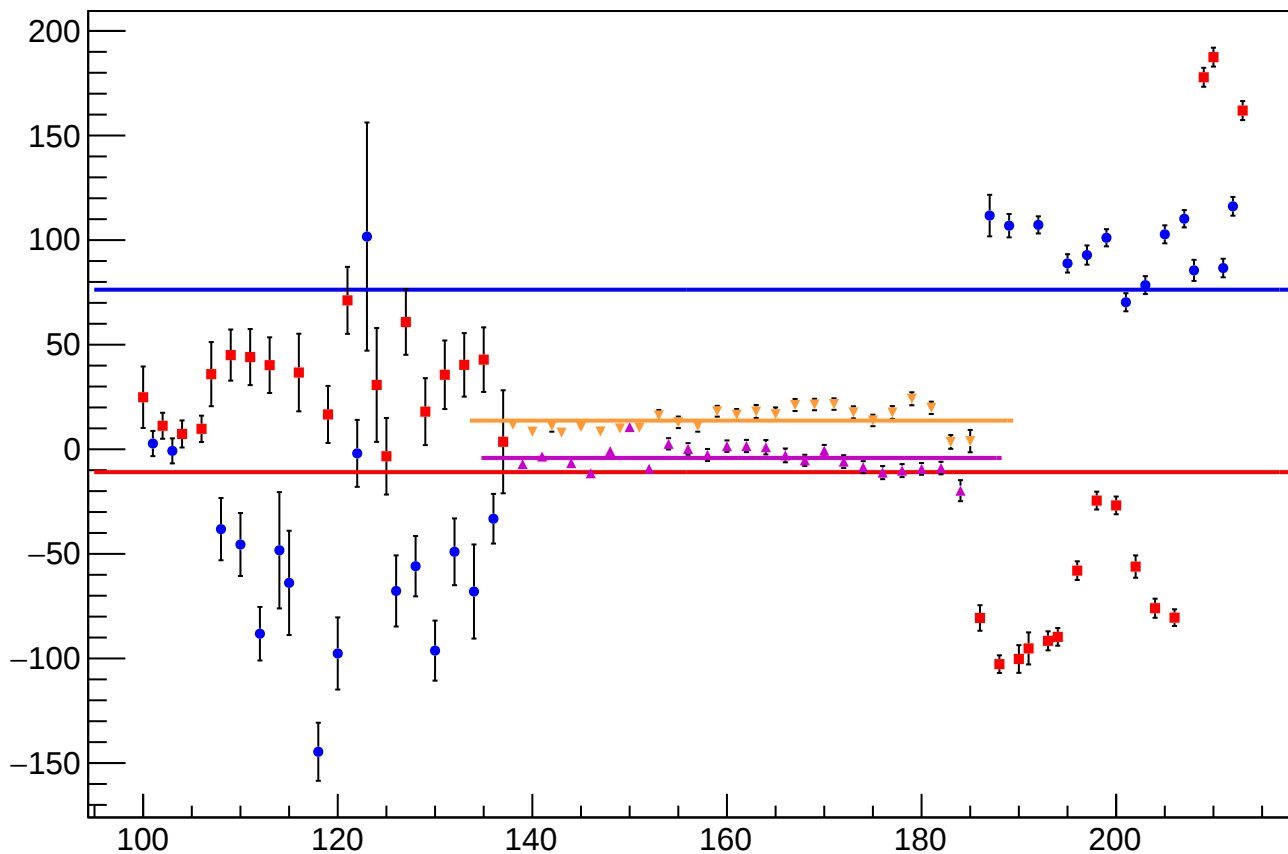
- sign -29.993 ± 0.951 χ^2/NDF : 1117.0/56

diff_bpm0l03Y_rms vs Slug



Right In: 2350.084+/-0.664	χ^2/NDF : 5856288.2/29	+ sign 2872.983+/-0.652	χ^2/NDF : 29782235.5/54
Left Out: 17546.173+/-3.517	χ^2/NDF : 5902620.4/24	All: 2911.662+/-0.468	χ^2/NDF : 60123107.1/1
Right Out: 2446.077+/-0.686	χ^2/NDF : 8759716.6/33	- sign 2952.708+/-0.672	χ^2/NDF : 30333628.0/56
Left In: 15305.311+/-3.386	χ^2/NDF : 7721177.0/22		

diff_bpm0l04X_mean vs Slug



Right In: 76.300+/-1.168 χ^2/NDF : 1875.7/29

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

Right Out: -10.916+/-1.105 χ^2/NDF : 7572.6/33

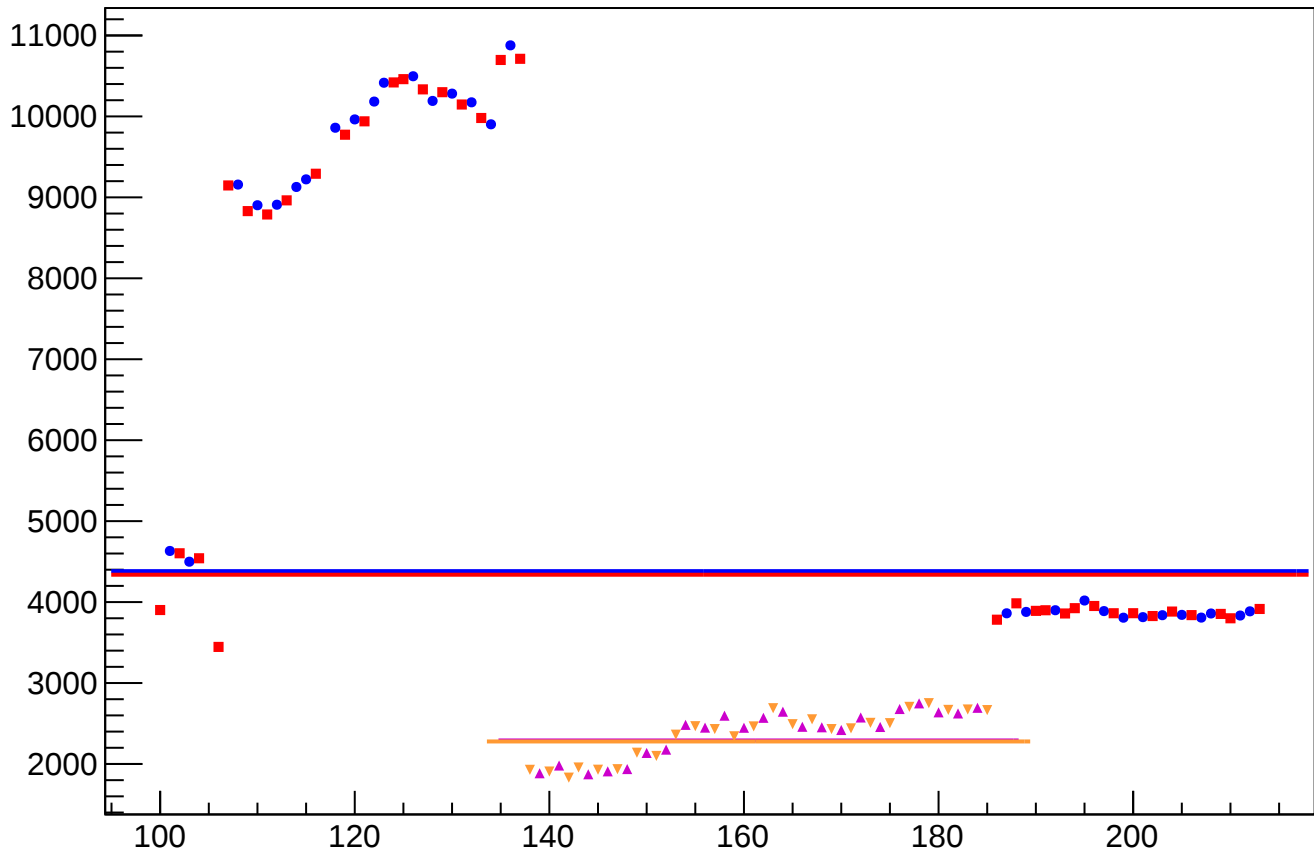
Left In: -4.141+/-0.555 χ^2/NDF : 111.7/22

+ sign 24.570+/-0.487 χ^2/NDF : 4338.3/54

All: 9.815+/-0.347 χ^2/NDF : 13926.6/111

- sign -5.505+/-0.496 χ^2/NDF : 7714.2/56

diff_bpm0l04X_rms vs Slug



Right In: 4382.390+/-0.826 χ^2/NDF : 3824176.5/29

Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24

Right Out: 4338.046+/-0.781 χ^2/NDF : 3867491.6/33

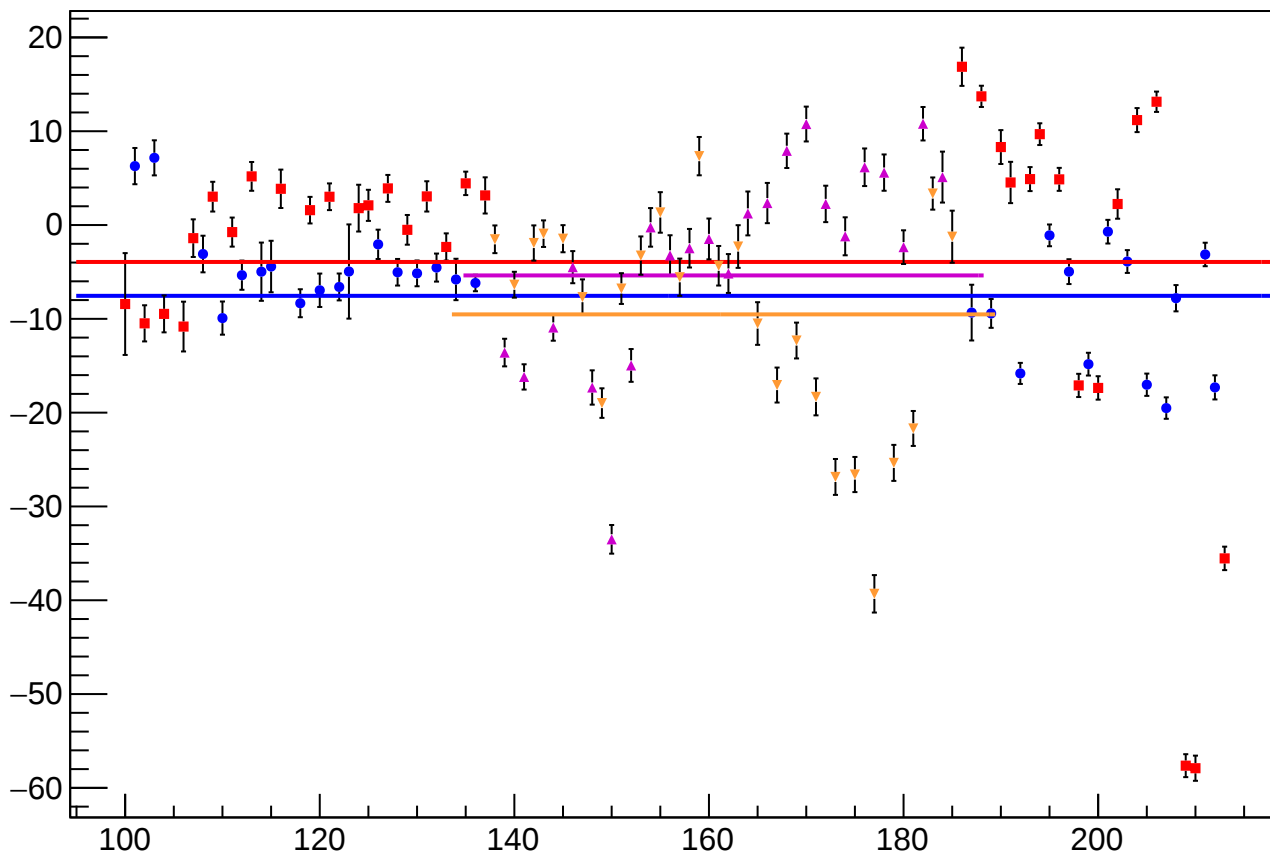
Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

+ sign 2643.235+/-0.344 χ^2/NDF : 9794858.8/54

All: 2672.396+/-0.246 χ^2/NDF : 19751511.9/100

- sign 2702.672+/-0.351 χ^2/NDF : 9942013.0/56

diff_bpm0l04Y_mean vs Slug



Right In: -7.547 ± 0.264 $\chi^2/\text{NDF}: 559.3/29$

Left Out: -9.524 ± 0.365 $\chi^2/\text{NDF}: 884.1/24$

Right Out: -3.936 ± 0.257 $\chi^2/\text{NDF}: 5734.9/33$

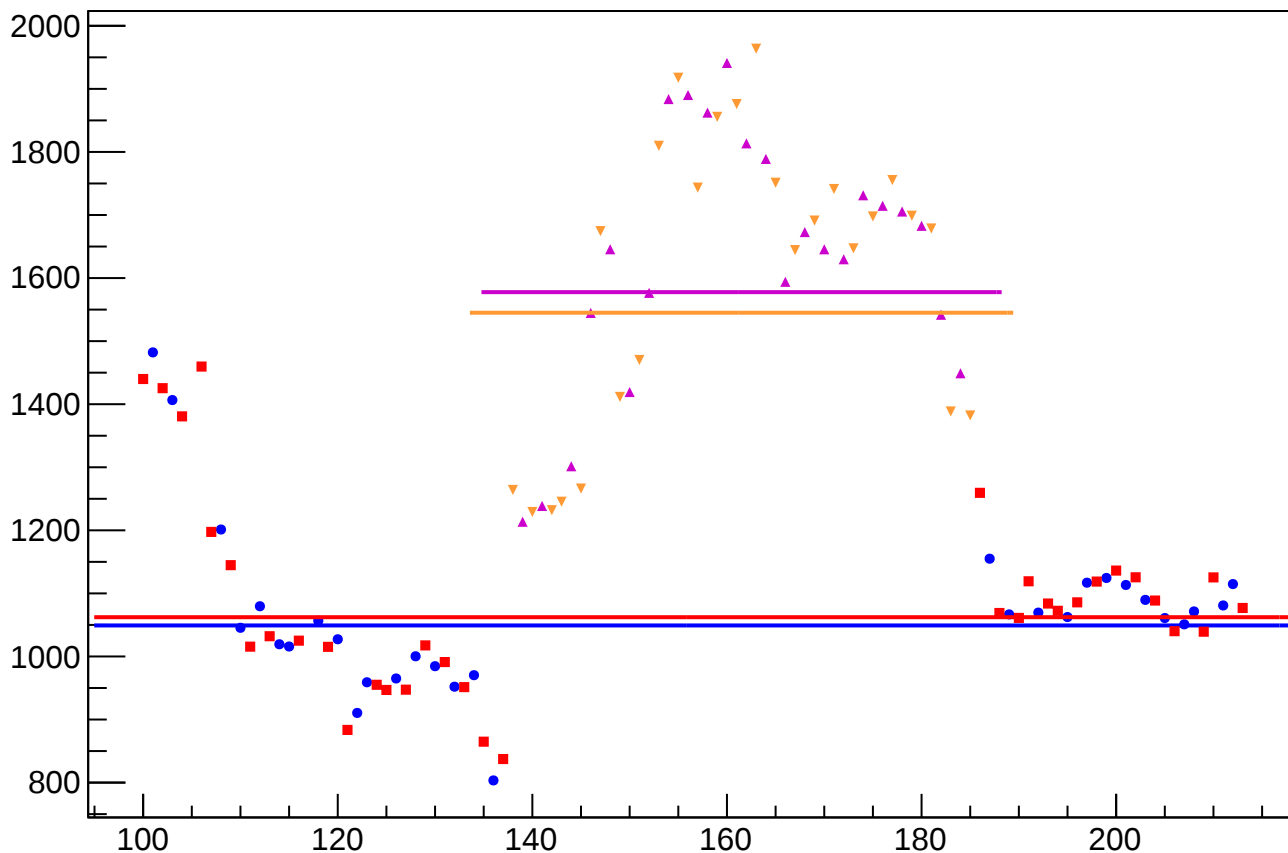
Left In: -5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

+ sign -8.228 ± 0.214 $\chi^2/\text{NDF}: 1462.7/54$

All: -6.297 ± 0.151 $\chi^2/\text{NDF}: 8239.3/111$

- sign -4.381 ± 0.213 $\chi^2/\text{NDF}: 6614.4/56$

diff_bpm0l04Y_rms vs Slug



Right In: 1049.175 $\pm$ 0.187 χ^2 /NDF: 418162.3/29

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

Right Out: 1062.247 $\pm$ 0.181 χ^2 /NDF: 393148.0/33

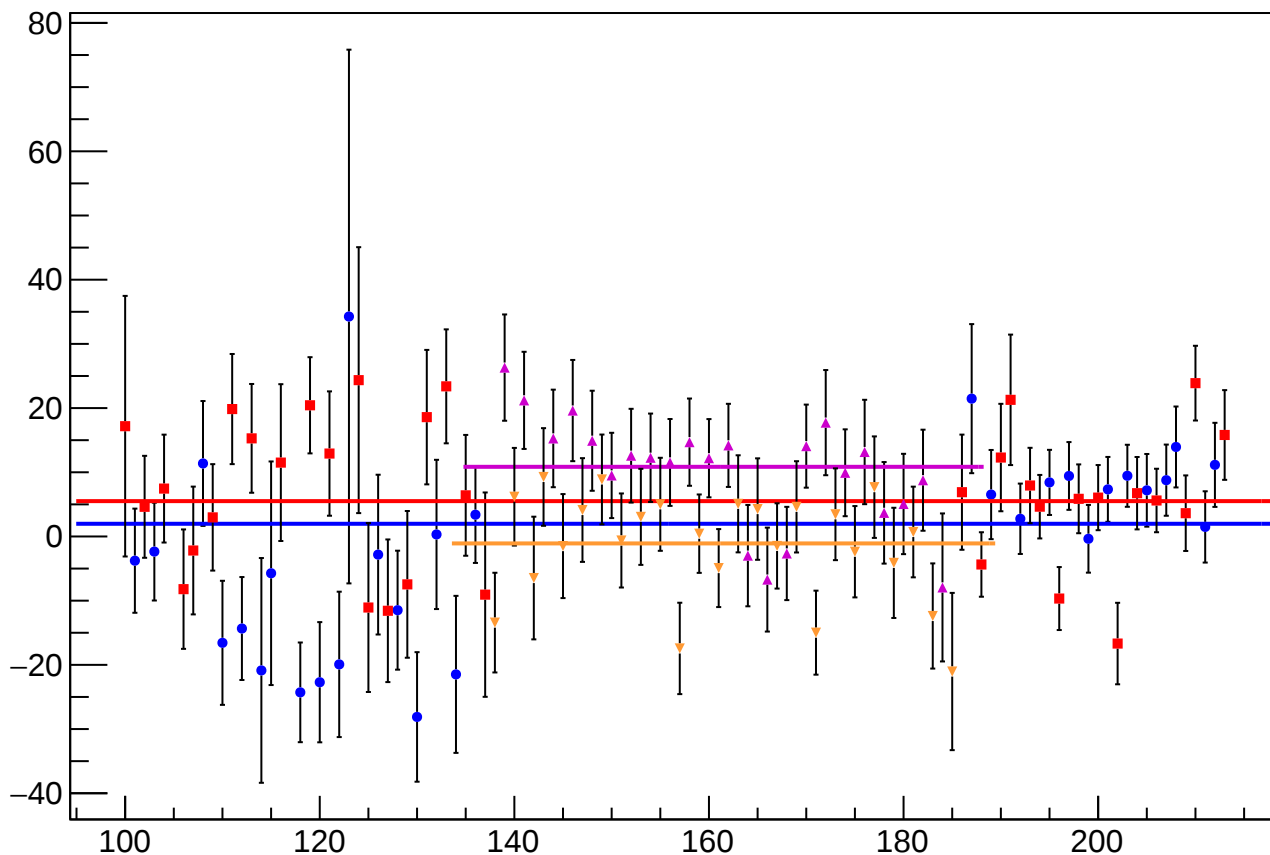
Left In: 1577.685 $\pm$ 0.271 χ^2 /NDF: 625406.2/22

+ sign 1219.855 $\pm$ 0.151 χ^2 /NDF: 3684711.8/54

All: 1220.943 $\pm$ 0.107 χ^2 /NDF: 7204106.6/11

- sign 1222.023 $\pm$ 0.151 χ^2 /NDF: 3519291.8/56

diff_bpm0l05X_mean vs Slug



Right In: 1.978 ± 1.324 χ^2/NDF : 67.6/29

Left Out: -1.083 ± 1.487 χ^2/NDF : 27.5/24

Right Out: 5.506 ± 1.261 χ^2/NDF : 66.0/33

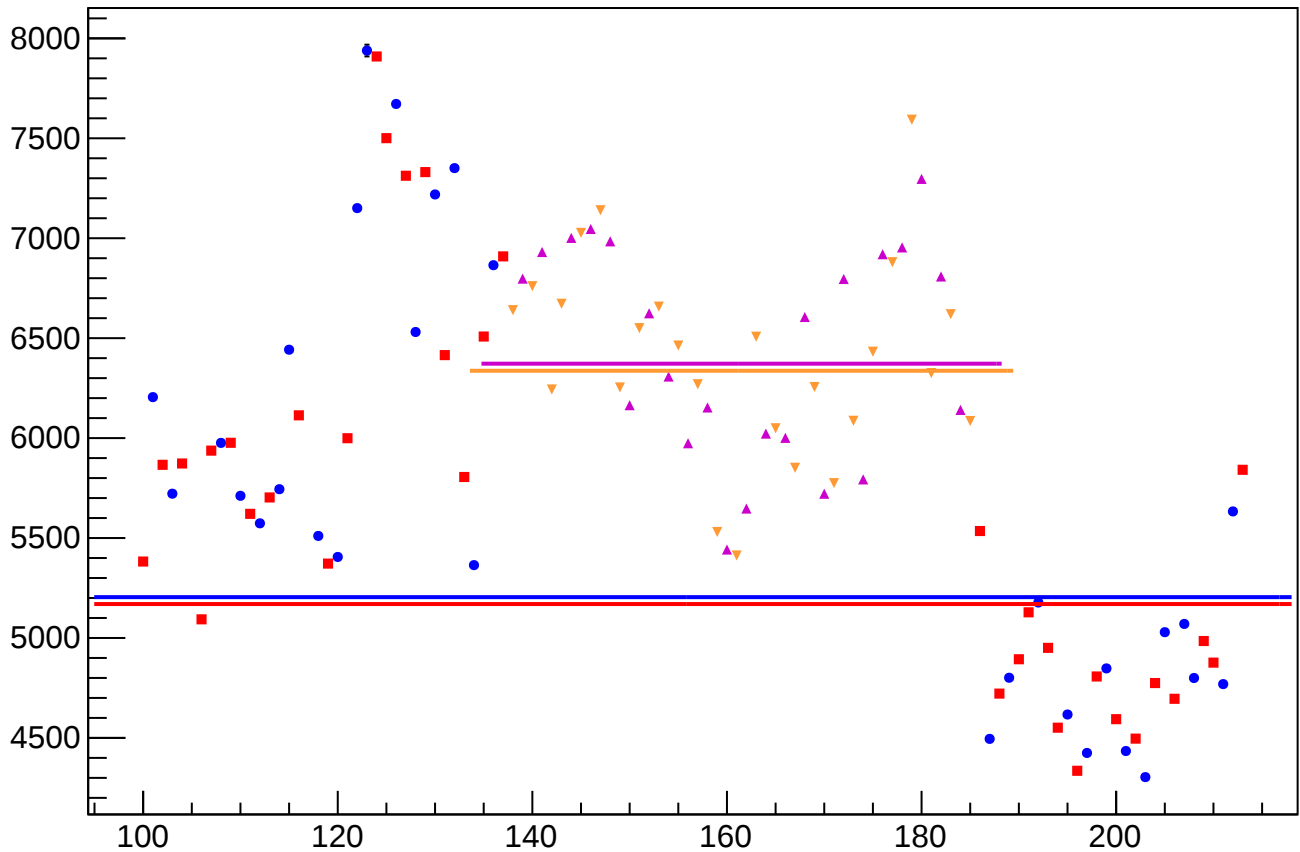
Left In: 10.851 ± 1.542 χ^2/NDF : 24.4/22

+ sign 0.624 ± 0.989 χ^2/NDF : 97.5/54

All: 4.182 ± 0.695 χ^2/NDF : 220.6/111

- sign -7.648 ± 0.976 χ^2/NDF : 97.5/56

diff_bpm0l05X_rms vs Slug



Right In: 5204.305+/-0.936 χ^2/NDF : 753311.3/29

Left Out: 6336.876+/-1.052 χ^2/NDF : 222912.5/24

Right Out: 5169.736+/-0.891 χ^2/NDF : 673196.7/33

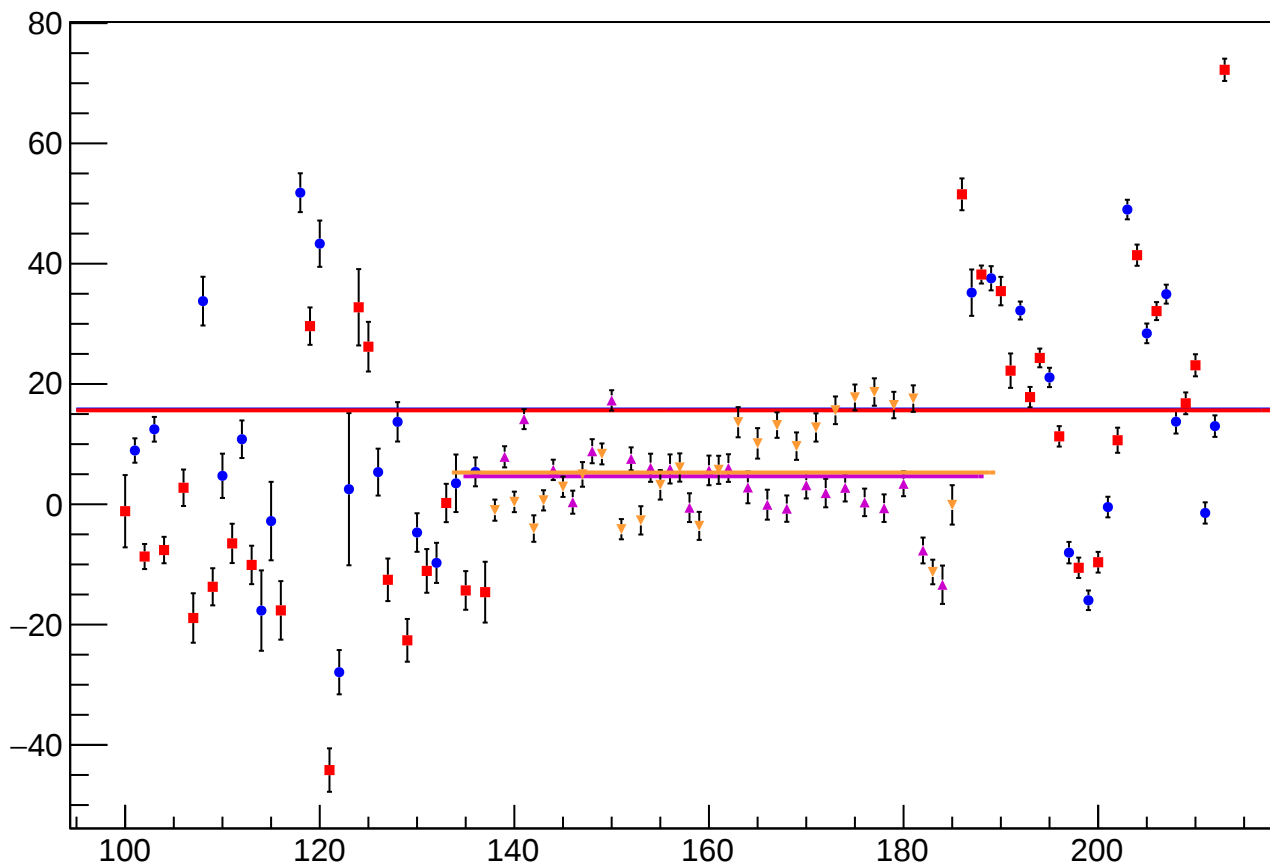
Left In: 6372.349+/-1.090 χ^2/NDF : 247257.0/22

+ sign 5704.966+/-0.699 χ^2/NDF : 1623425.1/54

All: 5677.929+/-0.491 χ^2/NDF : 3276255.2/11

- sign 5651.594+/-0.690 χ^2/NDF : 1649878.1/56

diff_bpm0l05Y_mean vs Slug



Right In: 15.756 $\pm$ 0.415 χ^2 /NDF: 2175.8/29

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

Right Out: 15.622 $\pm$ 0.399 χ^2 /NDF: 3555.1/33

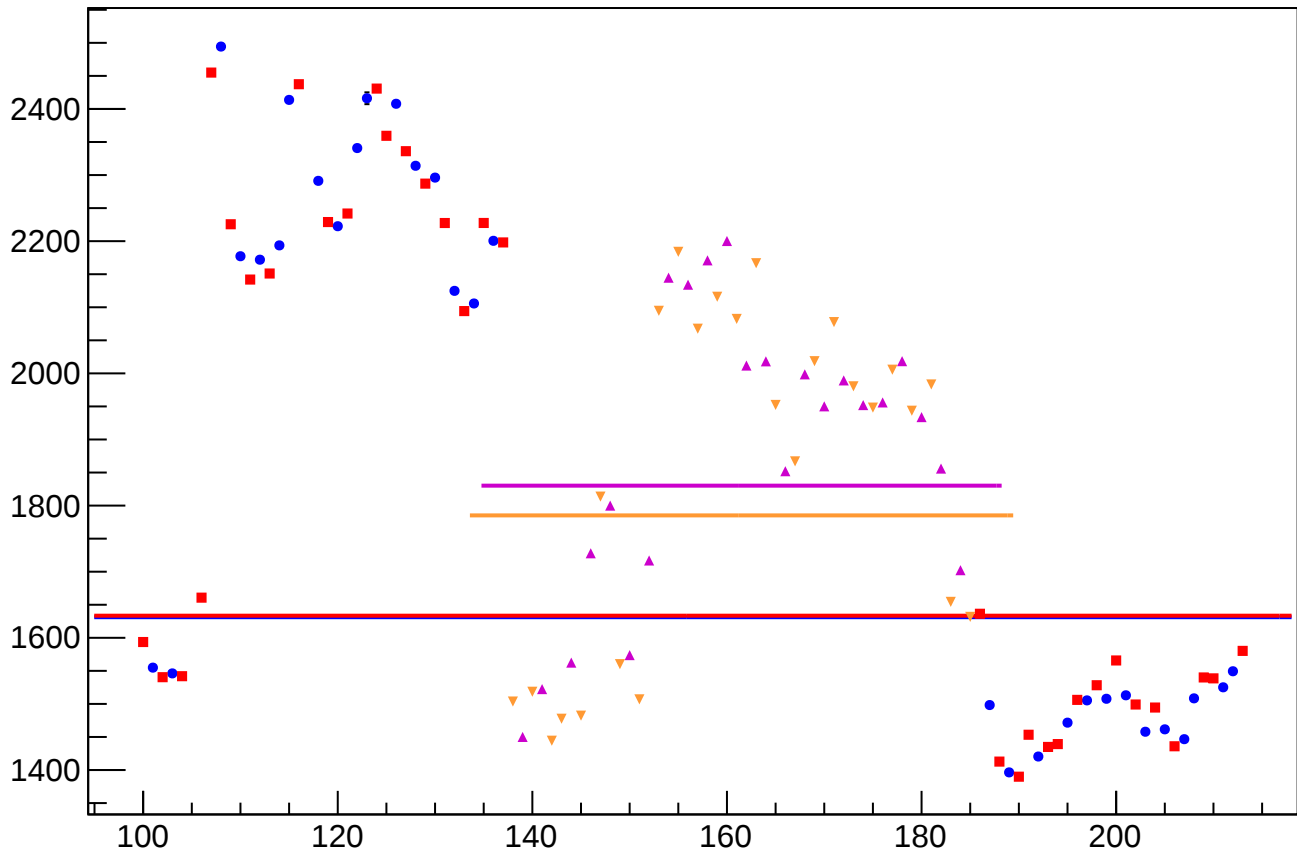
Left In: 4.657 $\pm$ 0.443 χ^2 /NDF:196.5/22

+ sign 10.589 $\pm$ 0.296 χ^2 /NDF: 2855.7/54

All: 10.652 $\pm$ 0.209 χ^2 /NDF: 6945.4/111

- sign 10.716 $\pm$ 0.297 χ^2 /NDF: 4089.6/56

diff_bpm0l05Y_rms vs Slug



Right In: 1631.188 $\pm$ 0.294 χ^2 /NDF: 1096214.3/29

Left Out: 1785.179 $\pm$ 0.297 χ^2 /NDF: 750628.1/24

Right Out: 1633.454 $\pm$ 0.282 χ^2 /NDF: 1096595.1/33

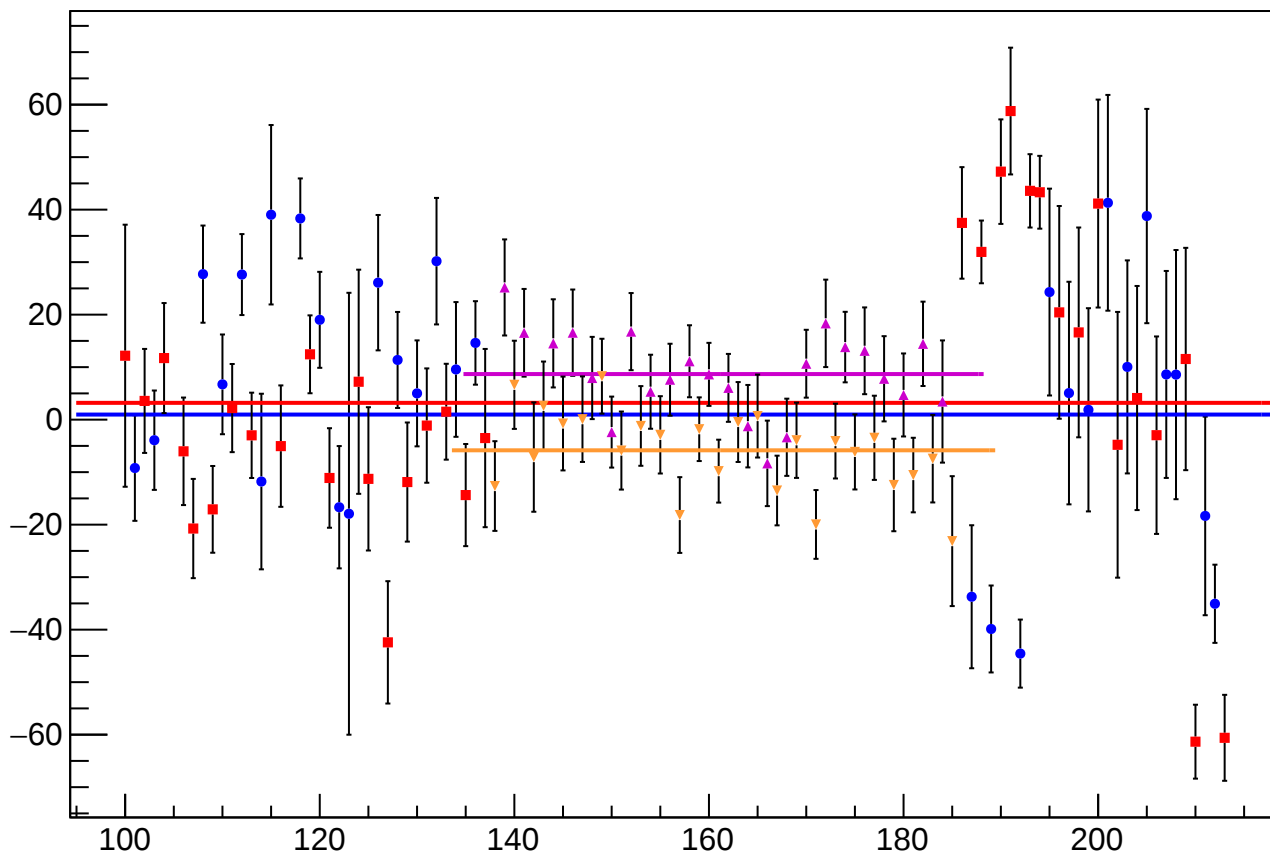
Left In: 1830.160 $\pm$ 0.313 χ^2 /NDF: 508391.9/22

+ sign 1707.178 $\pm$ 0.209 χ^2 /NDF: 1982584.8/54

All: 1714.298 $\pm$ 0.148 χ^2 /NDF: 3807463.5/11

- sign 1721.467 $\pm$ 0.210 χ^2 /NDF: 1822549.0/56

diff_bpm0l06X_mean vs Slug



Right In: 0.969 ± 2.020 χ^2/NDF : 186.3/29

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

Right Out: 3.200 ± 1.751 χ^2/NDF : 332.1/33

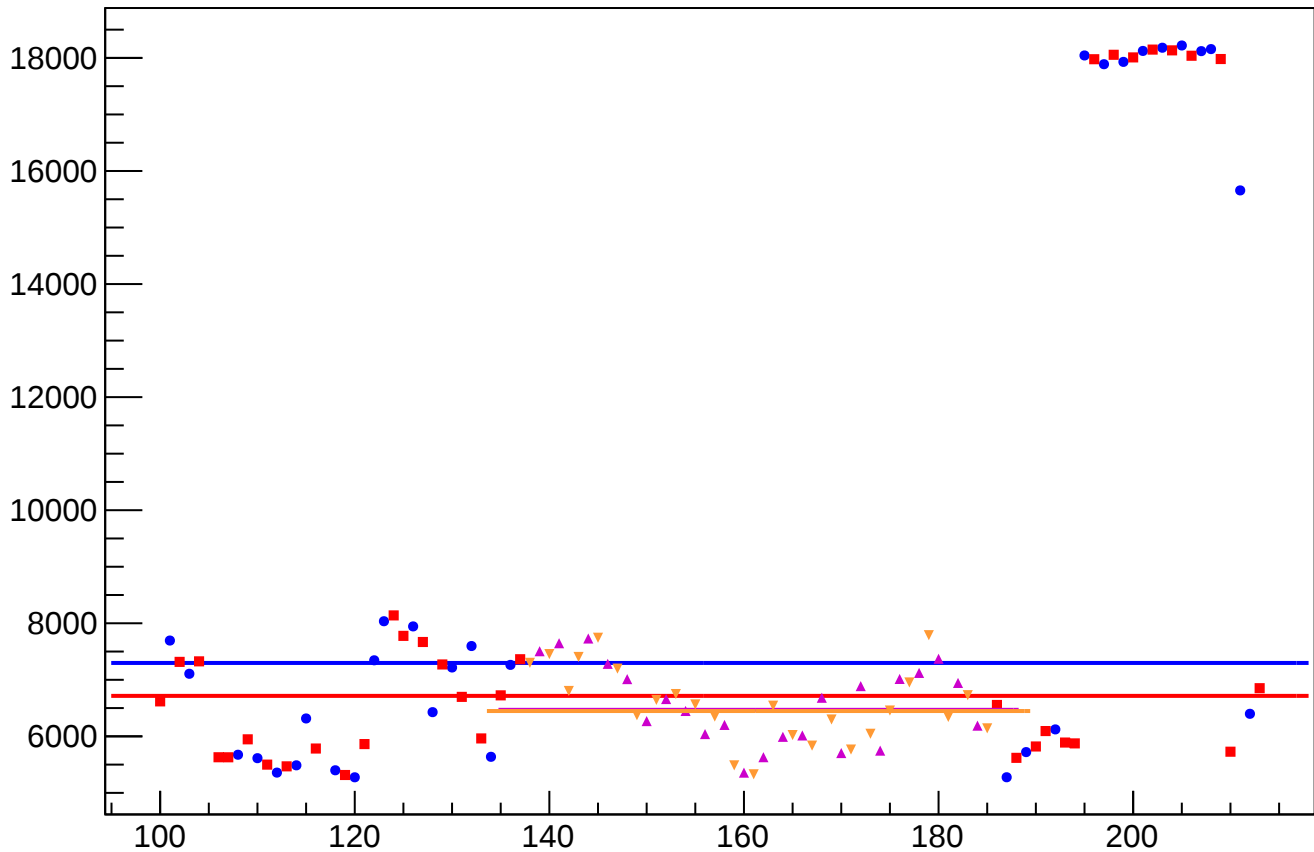
Left In: 8.683 ± 1.571 χ^2/NDF : 21.9/22

+ sign -3.383 ± 1.214 χ^2/NDF : 216.9/54

All: 1.608 ± 0.842 χ^2/NDF : 608.9/111

- sign 6.239 ± 1.169 χ^2/NDF : 359.4/56

diff_bpm0l06X_rms vs Slug



Right In: 7298.208+/-1.429 χ^2/NDF : 5590838.0/29

Left Out: 6447.712+/-1.074 χ^2/NDF : 371671.1/24

Right Out: 6715.758+/-1.238 χ^2/NDF : 4696207.3/33

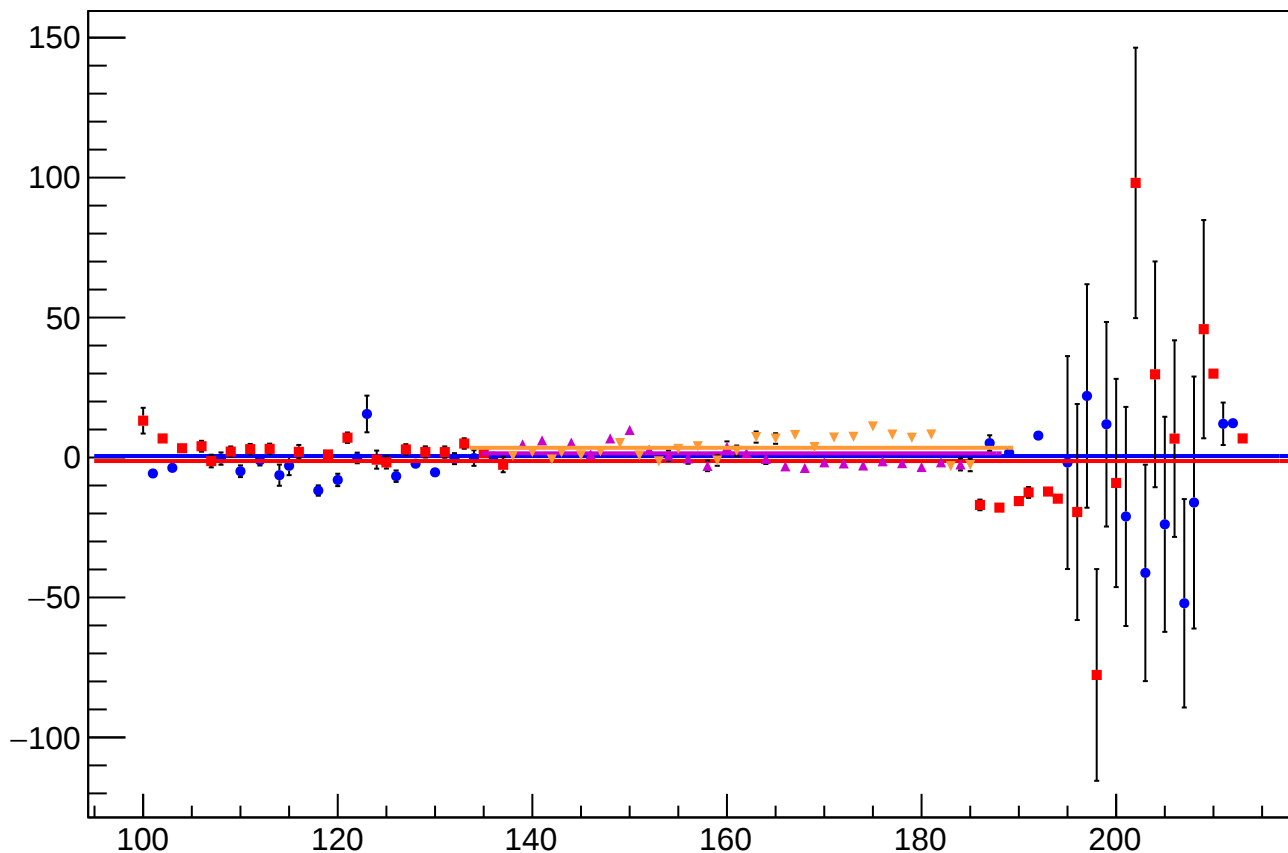
Left In: 6468.902+/-1.111 χ^2/NDF : 383325.4/22

+ sign 6754.658+/-0.858 χ^2/NDF : 6188999.9/54

All: 6663.520+/-0.595 χ^2/NDF : 11312298.3/100

- sign 6578.955+/-0.827 χ^2/NDF : 5101559.9/56

diff_bpm0l06Y_mean vs Slug



Right In: 0.527 ± 0.383 χ^2/NDF : 289.9/29

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

Right Out: -1.261 ± 0.328 χ^2/NDF : 1362.3/33

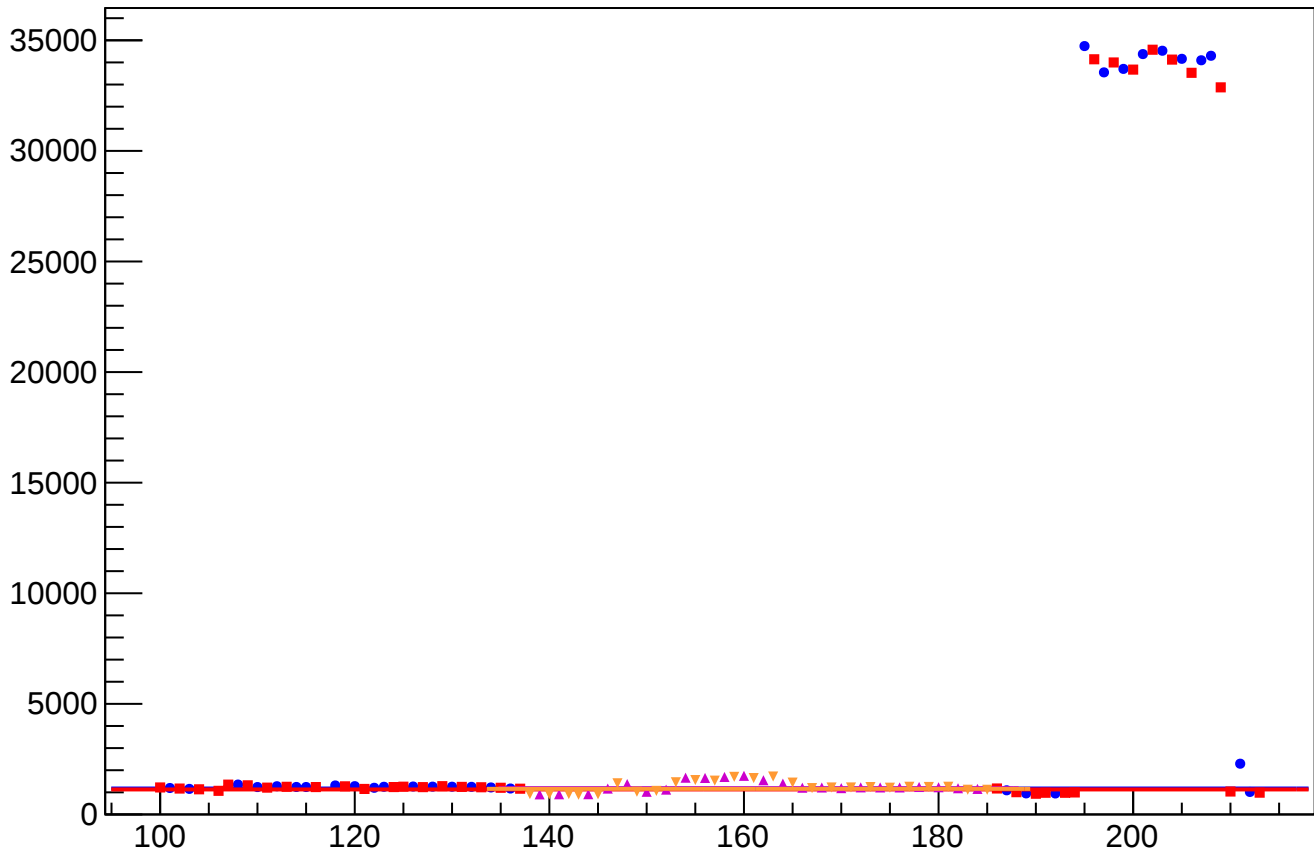
Left In: 1.502 ± 0.291 χ^2/NDF : 202.7/22

+ sign 2.462 ± 0.224 χ^2/NDF : 504.7/54

All: 1.342 ± 0.156 χ^2/NDF : 2158.0/111

- sign 0.287 ± 0.218 χ^2/NDF : 1604.8/56

diff_bpm0l06Y_rms vs Slug



Right In: 1172.558 $\pm$ 0.271 χ^2 /NDF: 11797678.3/29

Left Out: 1158.894 $\pm$ 0.195 χ^2 /NDF: 1410423.6/24

Right Out: 1130.673 $\pm$ 0.232 χ^2 /NDF: 10113709.2/33

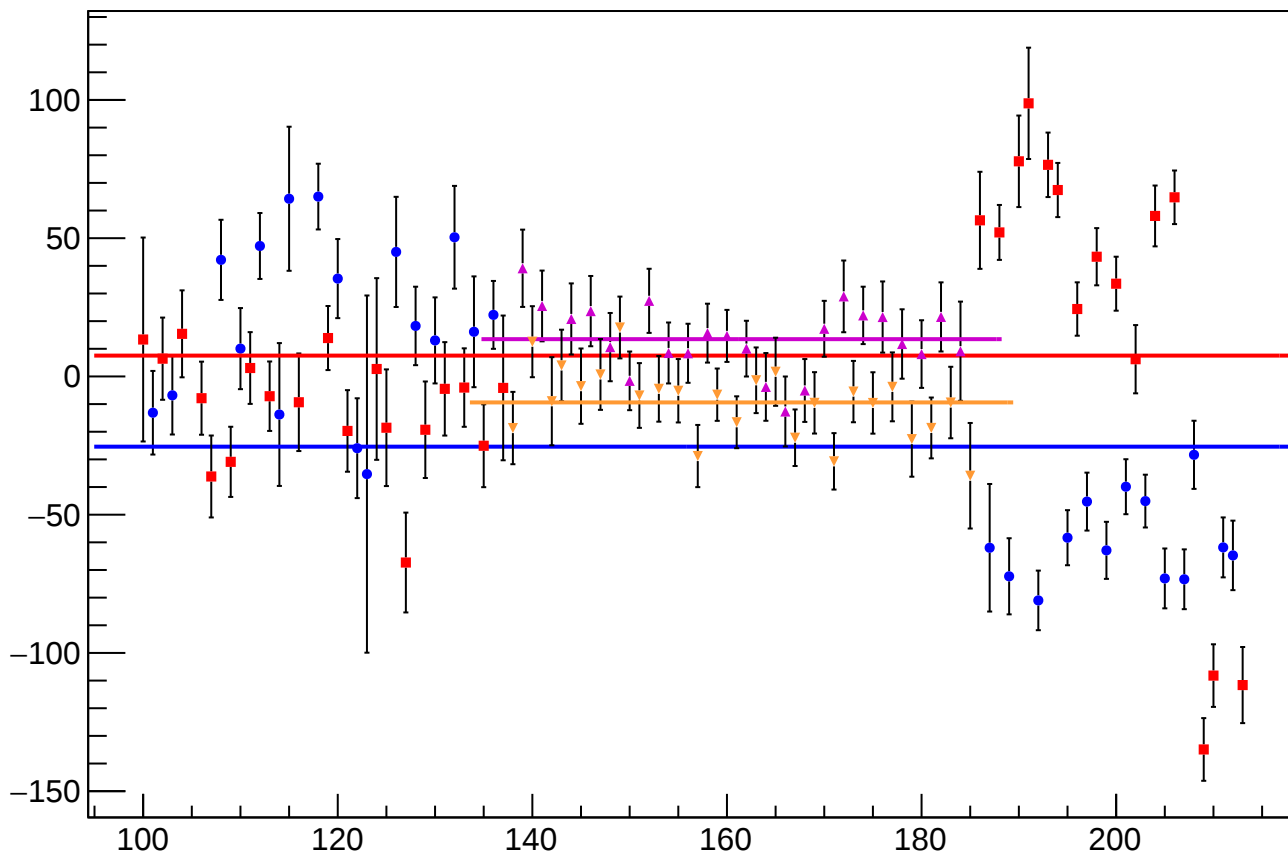
Left In: 1184.966 $\pm$ 0.206 χ^2 /NDF: 1190431.5/22

+ sign 1163.574 $\pm$ 0.158 χ^2 /NDF: 13209776.1/54

All: 1162.293 $\pm$ 0.110 χ^2 /NDF: 24544739.5/100

- sign 1161.087 $\pm$ 0.154 χ^2 /NDF: 11334836.6/56

diff_bpm0l07X_mean vs Slug



Right In: -25.397 ± 2.414 $\chi^2/\text{NDF}: 354.1/29$

Left Out: -9.398 ± 2.358 $\chi^2/\text{NDF}: 26.3/24$

Right Out: 7.538 ± 2.286 $\chi^2/\text{NDF}: 607.0/33$

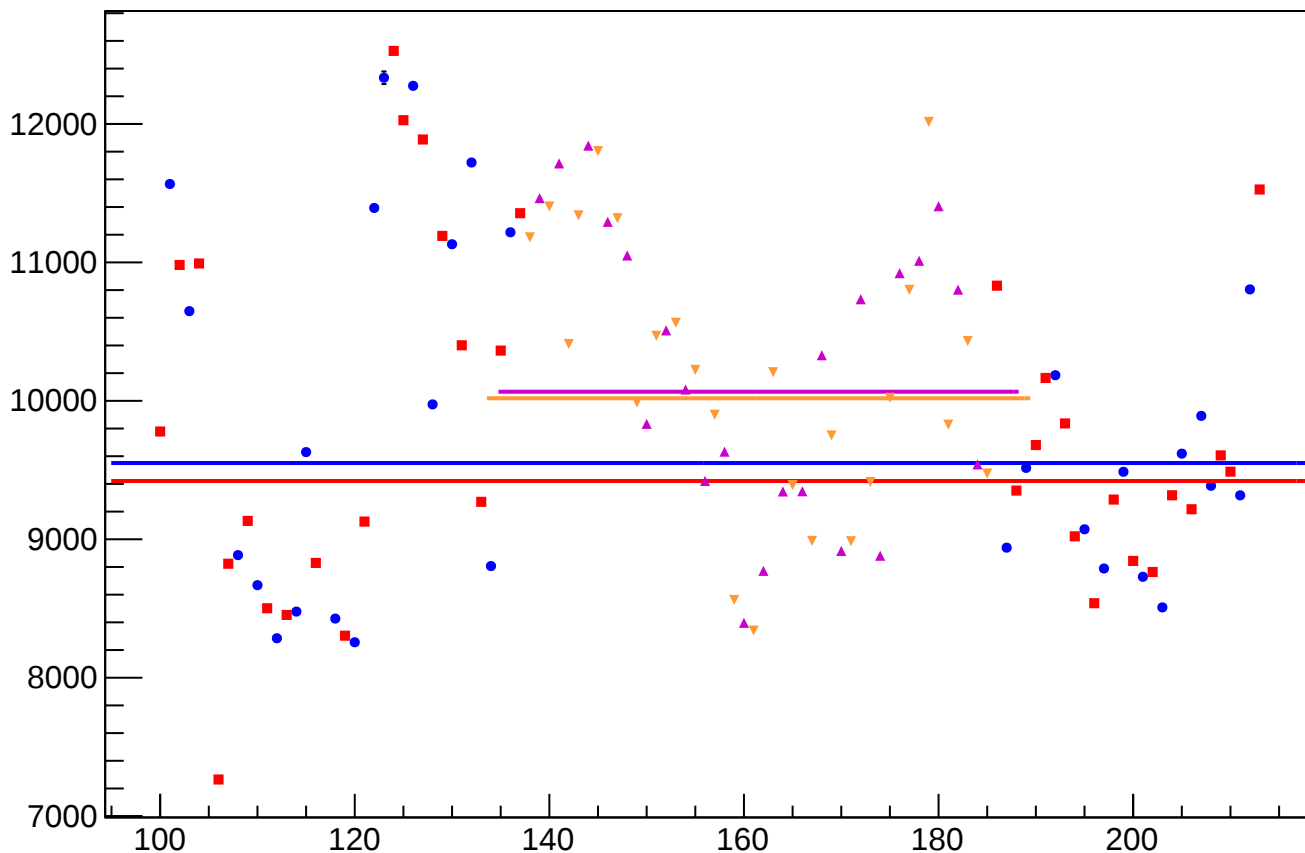
Left In: 13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

+ sign -17.212 ± 1.687 $\chi^2/\text{NDF}: 402.9/54$

All: -3.302 ± 1.186 $\chi^2/\text{NDF}: 1169.2/111$

- sign 10.314 ± 1.669 $\chi^2/\text{NDF}: 631.7/56$

diff_bpm0l07X_rms vs Slug



Right In: 9550.867 $\pm$ 1.707 χ^2 /NDF: 354903.6/29

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

Right Out: 9420.983 $\pm$ 1.616 χ^2 /NDF: 375675.6/33

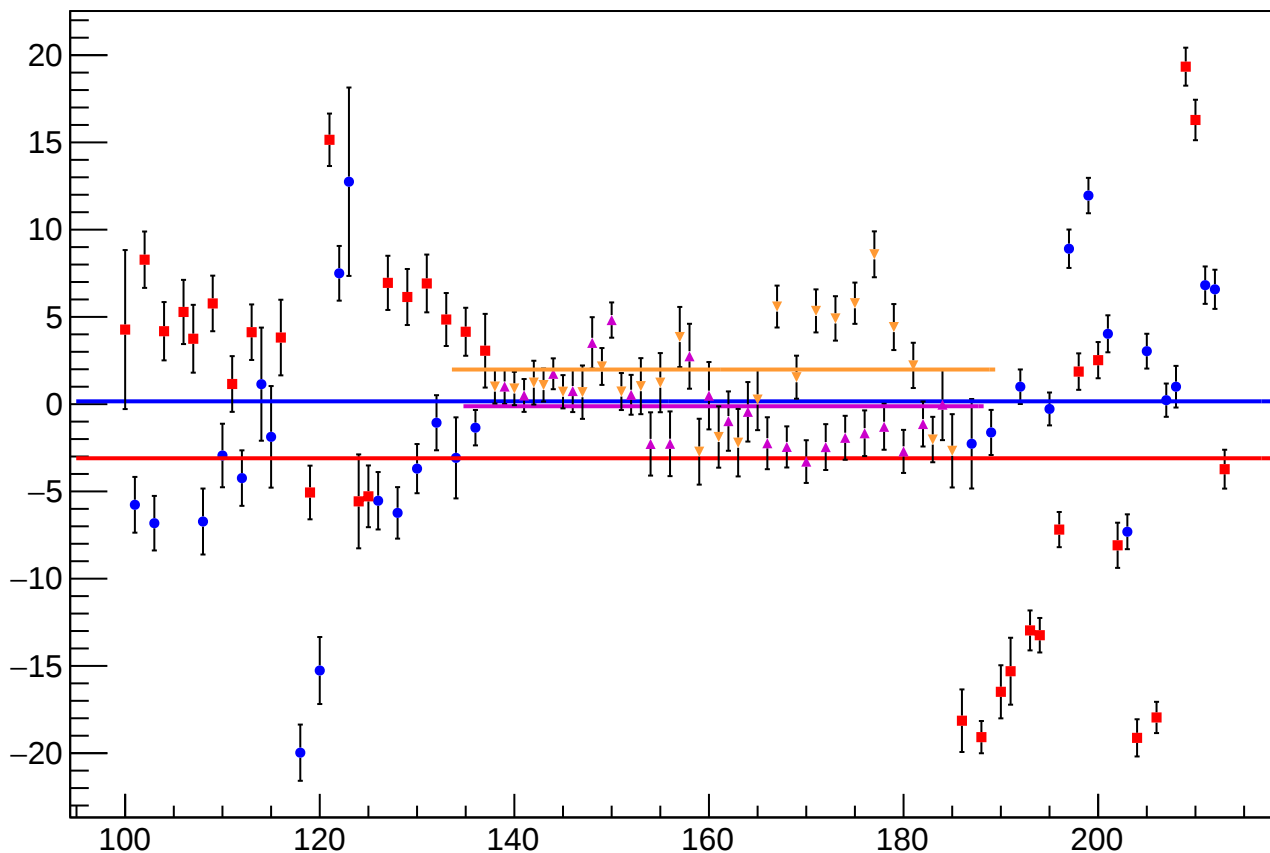
Left In: 10065.909 $\pm$ 1.727 χ^2 /NDF:357868.9/22

+ sign 9790.138 $\pm$ 1.193 χ^2 /NDF: 737850.6/54

All: 9755.730 $\pm$ 0.839 χ^2 /NDF: 1547367.7/11

- sign 9722.048 $\pm$ 1.180 χ^2 /NDF: 807870.5/56

diff_bpm0l07Y_mean vs Slug



Right In: 0.162 ± 0.242 χ^2/NDF : 700.7/29

Left Out: 1.985 ± 0.255 χ^2/NDF : 101.2/24

Right Out: -3.101 ± 0.233 χ^2/NDF : 2456.3/33

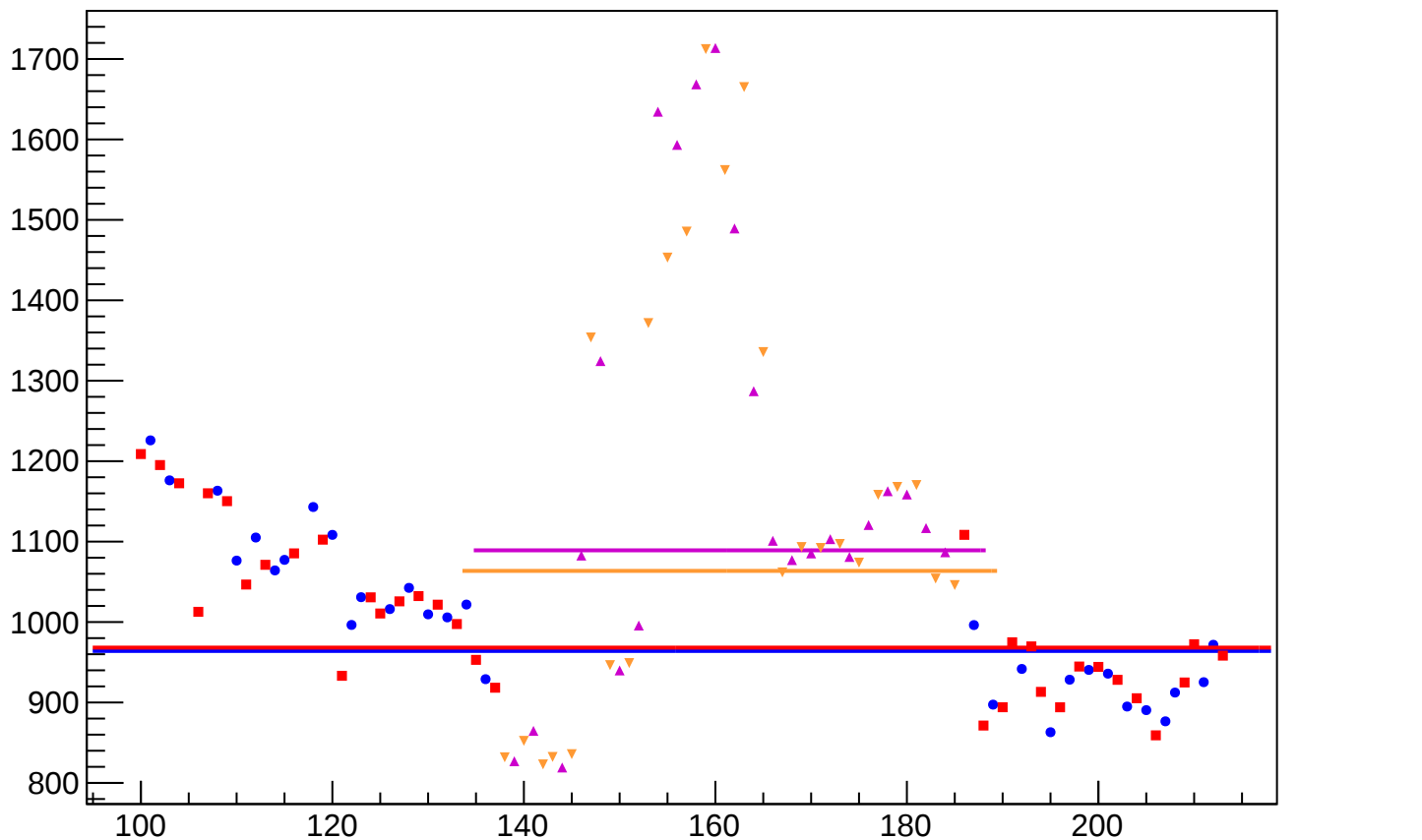
Left In: -0.120 ± 0.269 χ^2/NDF : 67.6/22

+ sign 1.027 ± 0.176 χ^2/NDF : 828.8/54

All: -0.390 ± 0.124 χ^2/NDF : 3553.6/111

- sign -1.818 ± 0.176 χ^2/NDF : 2594.0/56

diff_bpm0l07Y_rms vs Slug



Right In: 964.059+/-0.171 χ^2/NDF : 271014.7/29

Left Out: 1063.600+/-0.180 χ^2/NDF :1617376.3/24

Right Out: 968.218+/-0.165 χ^2/NDF : 269475.7/33

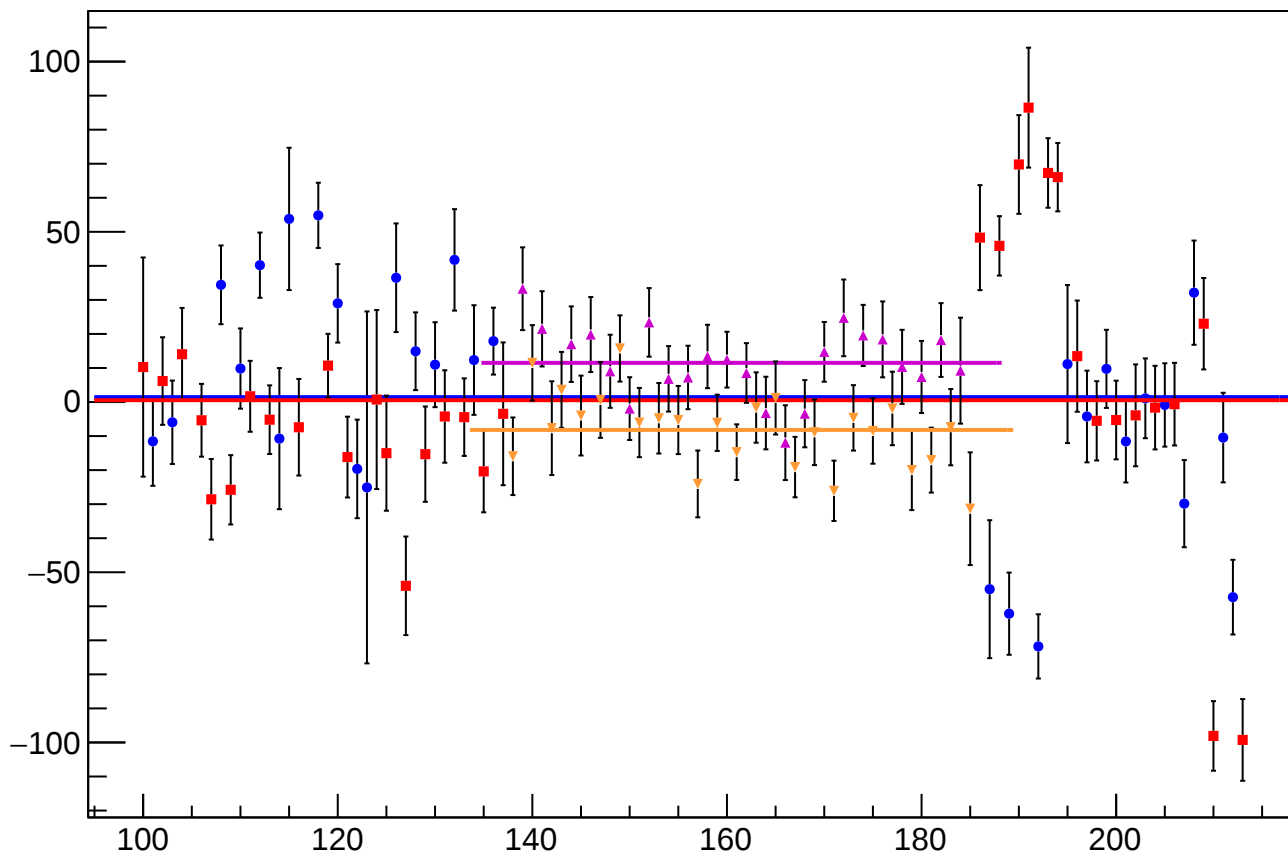
Left In: 1089.154+/-0.190 χ^2/NDF :1430478.5/22

+ sign 1011.310+/-0.124 χ^2/NDF : 2048719.8/54

All: 1015.764+/-0.088 χ^2/NDF : 3982099.7/11

- sign 1020.251+/-0.125 χ^2/NDF : 1930796.3/56

diff_bpm0l08X_mean vs Slug



Right In: 1.436 ± 2.333 χ^2/NDF : 226.9/29

Left Out: -8.195 ± 2.049 χ^2/NDF : 26.2/24

Right Out: 0.532 ± 2.127 χ^2/NDF : 372.6/33

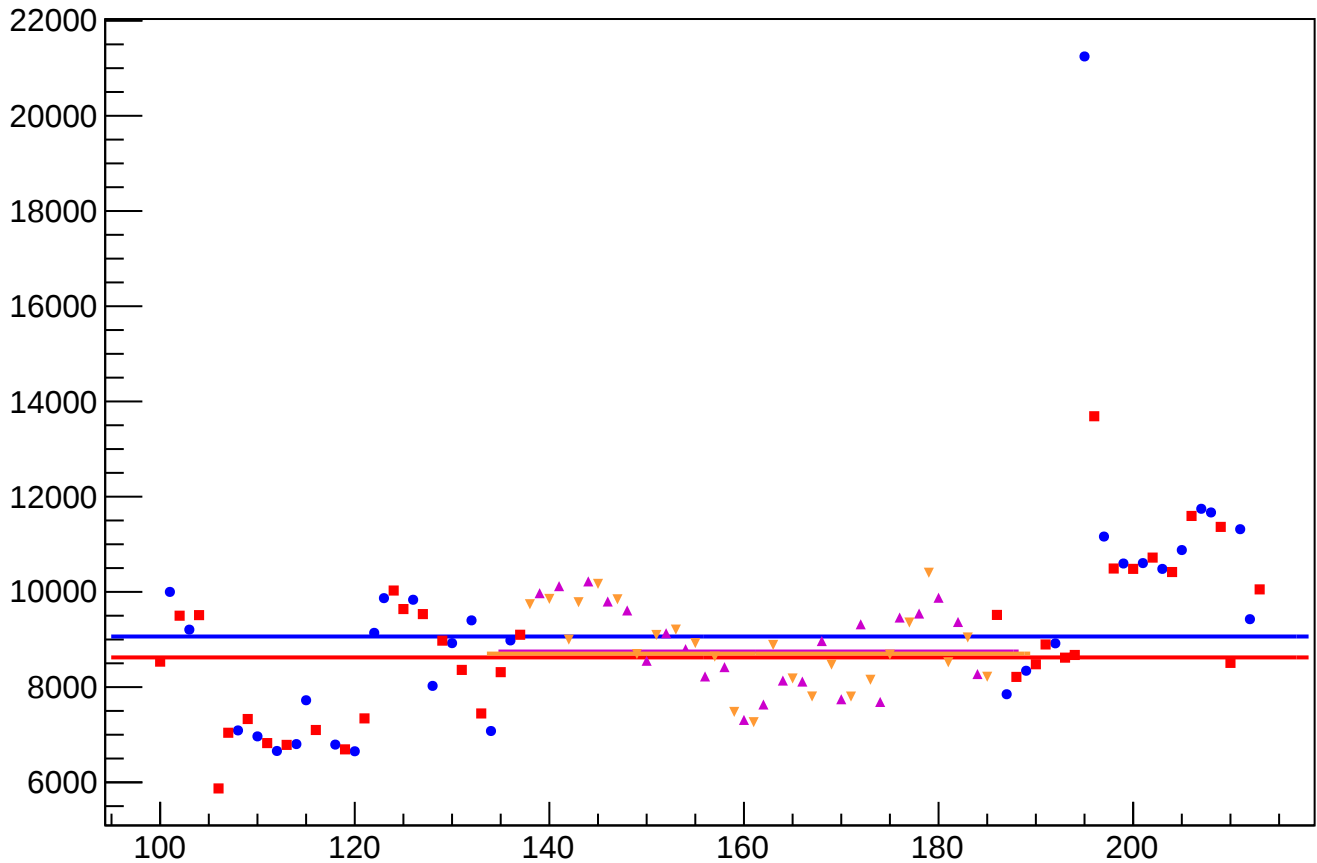
Left In: 11.515 ± 2.122 χ^2/NDF : 21.0/22

+ sign -4.001 ± 1.539 χ^2/NDF : 262.6/54

All: 1.139 ± 1.075 χ^2/NDF : 691.4/111

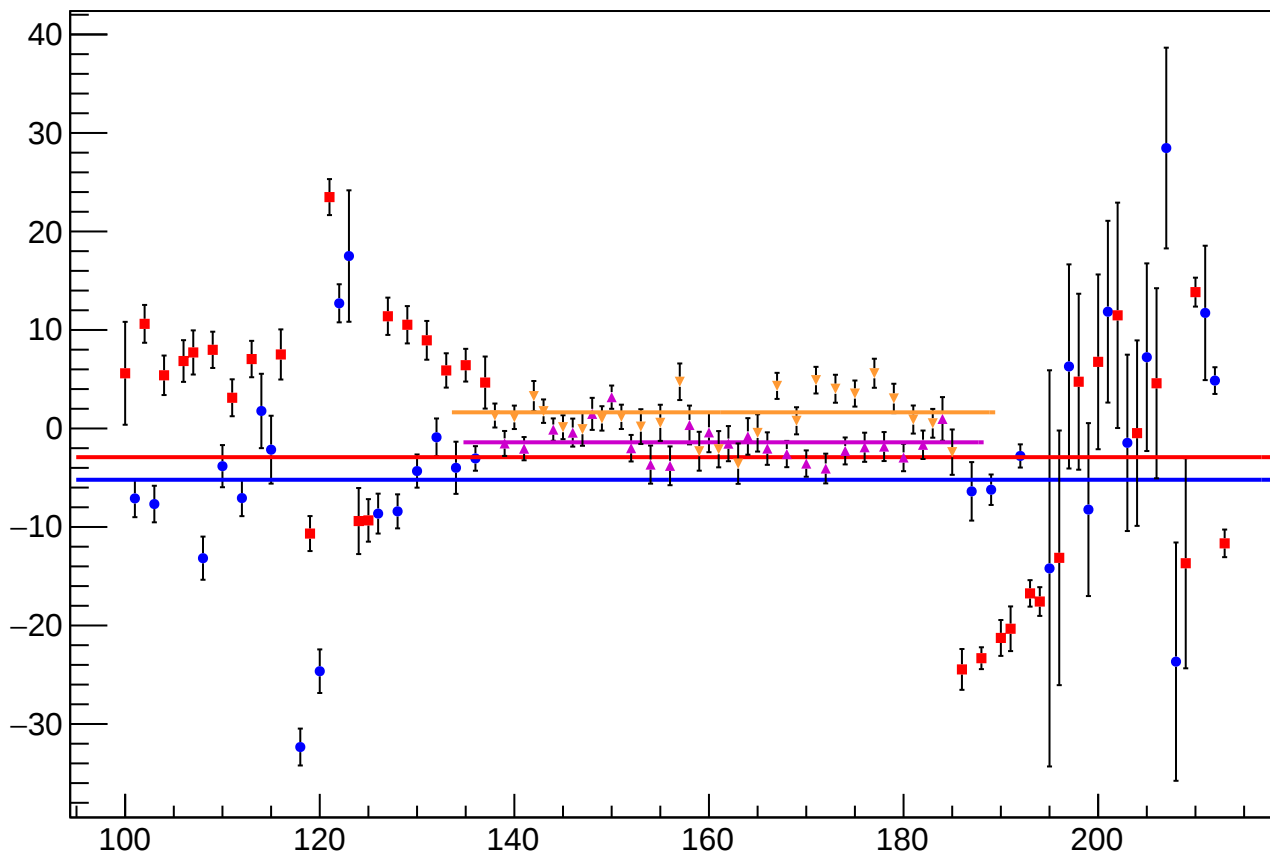
- sign 6.035 ± 1.502 χ^2/NDF : 407.0/56

diff_bpm0l08X_rms vs Slug



Right In: 9062.992+/-1.649	χ^2/NDF : 1506343.9/29	+ sign 8860.442+/-1.088	χ^2/NDF : 1865423.7/54
Left Out: 8704.193+/-1.449	χ^2/NDF : 332364.3/24	All: 8770.943+/-0.760	χ^2/NDF : 3373405.2/11
Right Out: 8623.696+/-1.504	χ^2/NDF : 1144277.5/33	- sign 8685.687+/-1.062	χ^2/NDF : 1494778.8/56
Left In: 8747.415+/-1.501	χ^2/NDF : 347110.4/22		

diff_bpm0l08Y_mean vs Slug



Right In: -5.207 ± 0.405 $\chi^2/\text{NDF}: 507.4/29$

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

Right Out: -2.913 ± 0.350 $\chi^2/\text{NDF}: 1642.6/33$

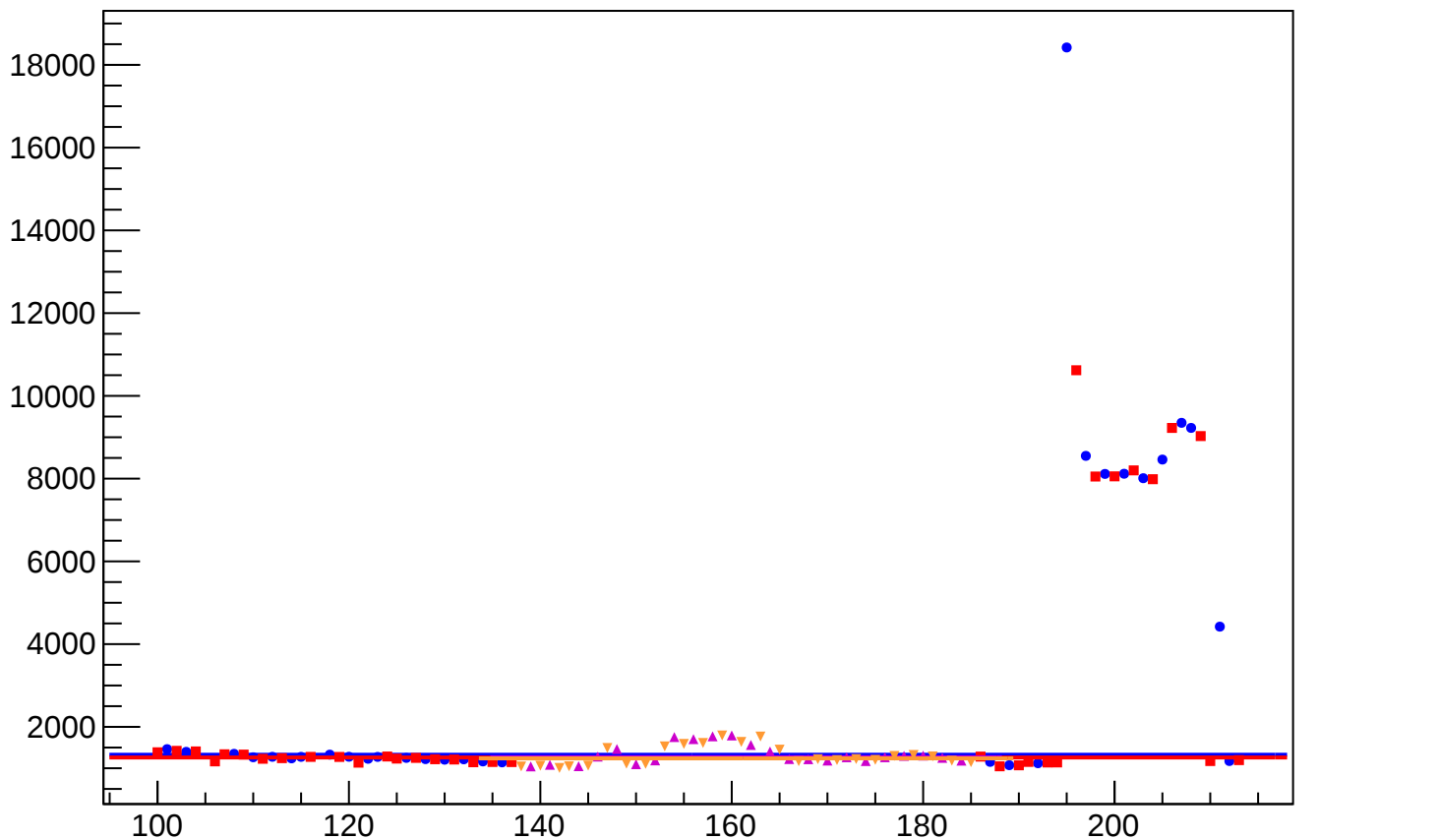
Left In: -1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

+ sign -0.722 ± 0.238 $\chi^2/\text{NDF}: 746.2/54$

All: -1.412 ± 0.166 $\chi^2/\text{NDF}: 2449.9/111$

- sign -2.066 ± 0.232 $\chi^2/\text{NDF}: 1687.2/56$

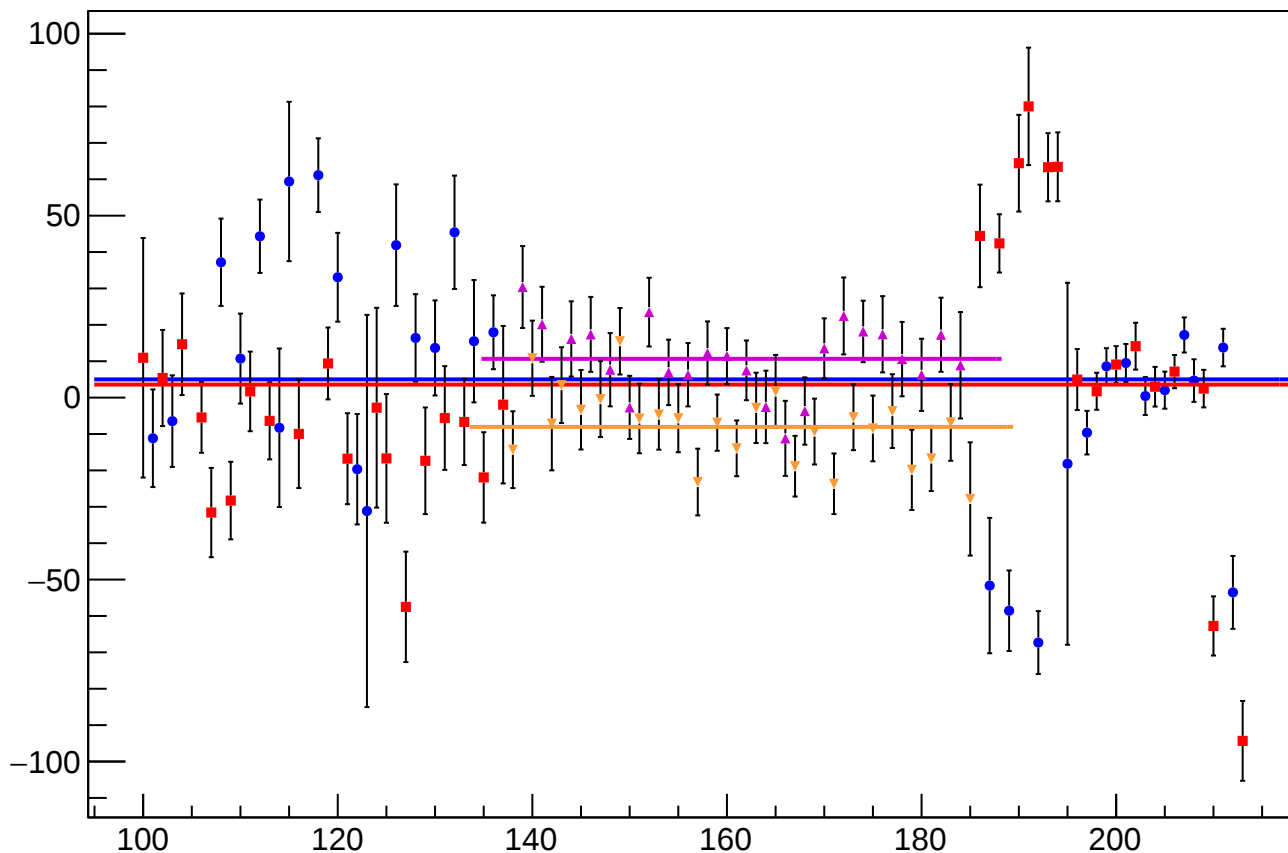
diff_bpm0l08Y_rms vs Slug



Right In: 1326.364 $\pm$ 0.286 χ^2 /NDF: 9686986.0/29
 Left Out: 1238.437 $\pm$ 0.208 χ^2 /NDF:965173.0/24
 Right Out: 1259.864 $\pm$ 0.247 χ^2 /NDF: 7767939.5/33
 Left In: 1265.673 $\pm$ 0.218 χ^2 /NDF:845157.0/22

+ sign 1268.770 $\pm$ 0.168 χ^2 /NDF: 10714037.5/54
 All: 1265.874 $\pm$ 0.117 χ^2 /NDF: 19328023.1/100
 - sign 1263.125 $\pm$ 0.164 χ^2 /NDF: 8613406.5/56

diff_bpm0l09X_mean vs Slug



Right In: 5.011 ± 1.545 $\chi^2/\text{NDF}: 249.8/29$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: 3.586 ± 1.540 $\chi^2/\text{NDF}: 355.3/33$

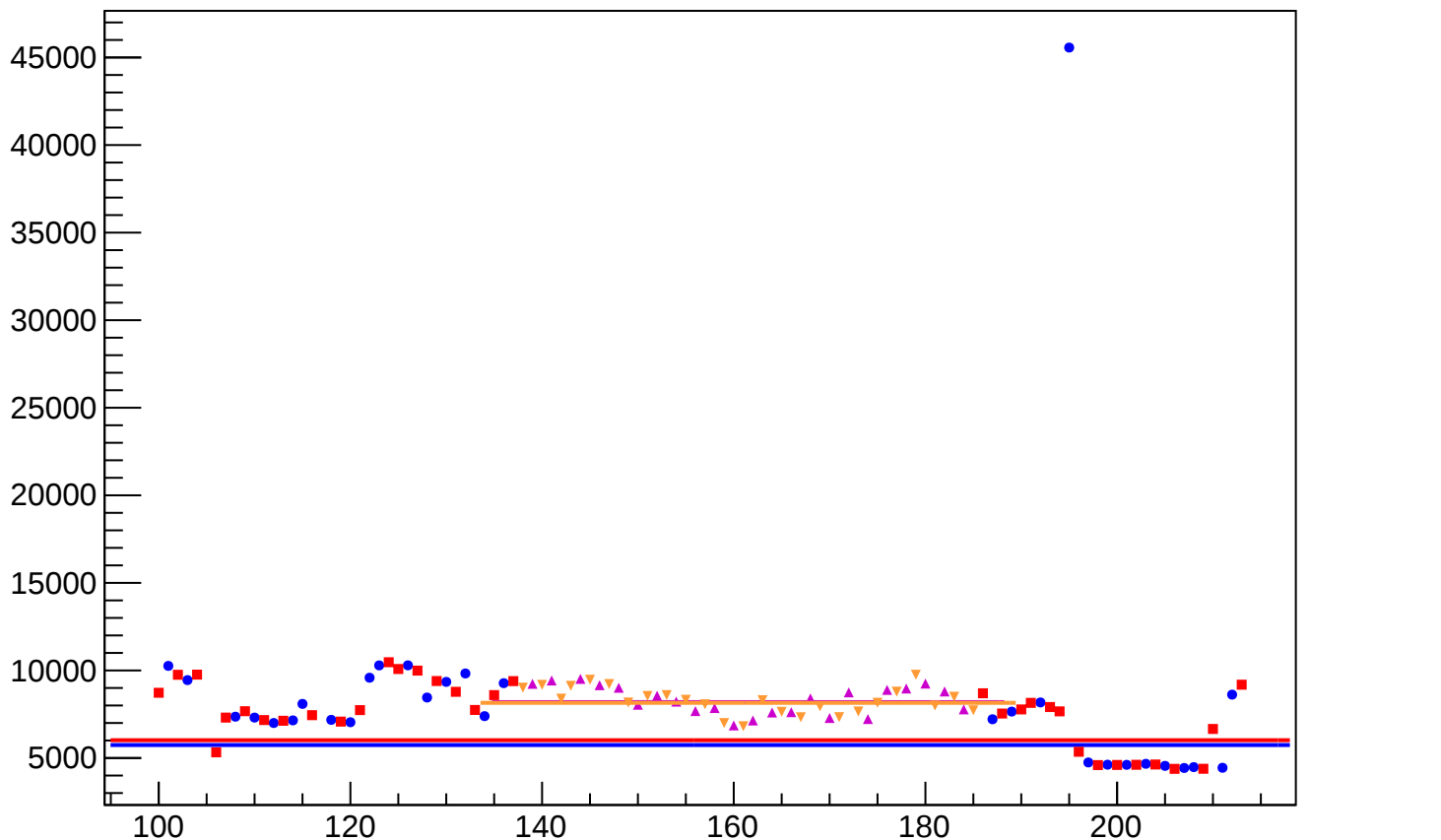
Left In: 10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

+ sign -0.125 ± 1.203 $\chi^2/\text{NDF}: 304.2/54$

All: 3.019 ± 0.856 $\chi^2/\text{NDF}: 702.6/111$

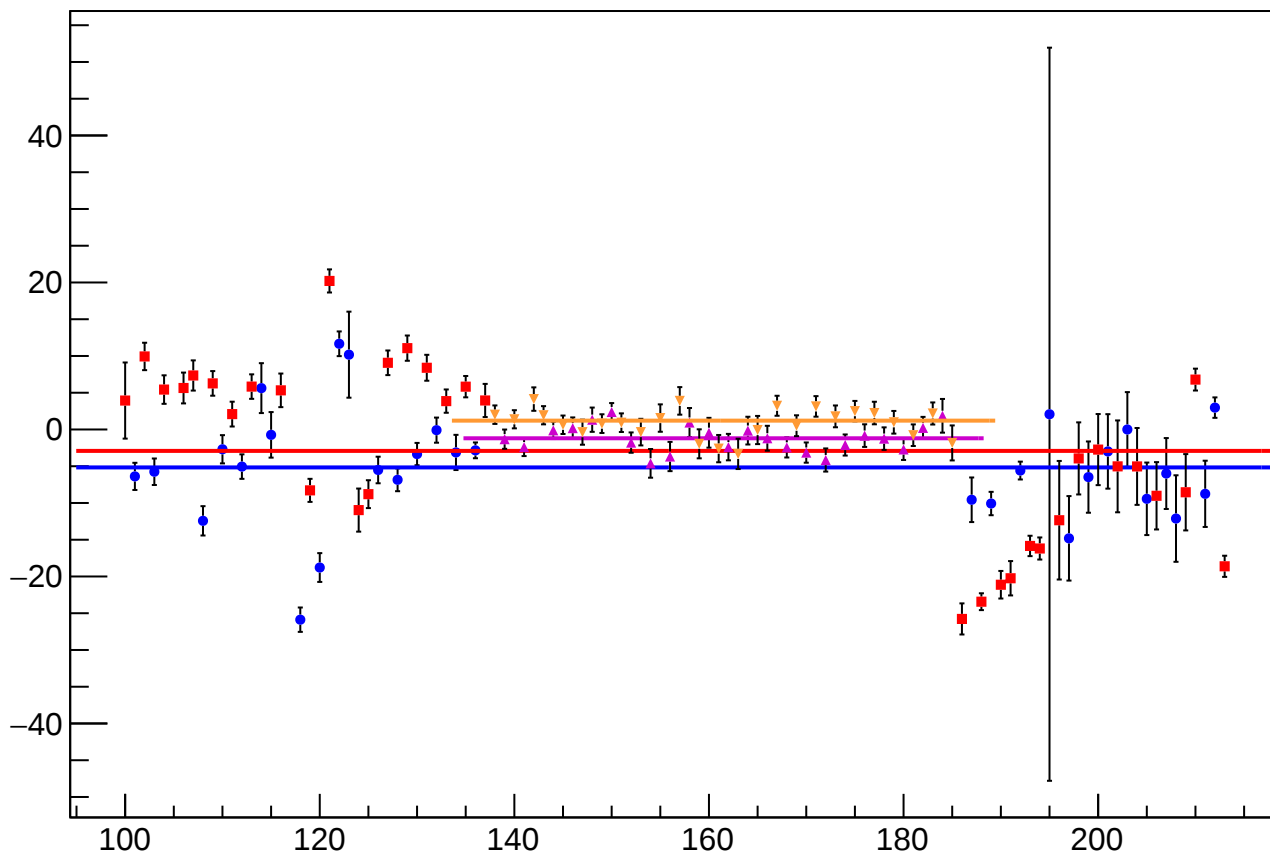
- sign 6.236 ± 1.217 $\chi^2/\text{NDF}: 384.6/56$

diff_bpm0l09X_rms vs Slug



Right In: 5741.875+/-1.092	χ^2/NDF : 4028050.5/29	+ sign 6689.930+/-0.851	χ^2/NDF : 6264230.9/54
Left Out: 8151.489+/-1.356	χ^2/NDF : 321803.3/24	All: 6760.964+/-0.605	χ^2/NDF : 10832217.7/100
Right Out: 6017.637+/-1.089	χ^2/NDF : 2717282.9/33	- sign 6833.659+/-0.861	χ^2/NDF : 4553881.2/56
Left In: 8193.636+/-1.405	χ^2/NDF : 338377.6/22		

diff_bpm0l09Y_mean vs Slug



Right In: -5.162 ± 0.372 χ^2/NDF : 409.0/29

Left Out: 1.203 ± 0.302 χ^2/NDF : 29.9/24

Right Out: -2.914 ± 0.330 χ^2/NDF : 1574.7/33

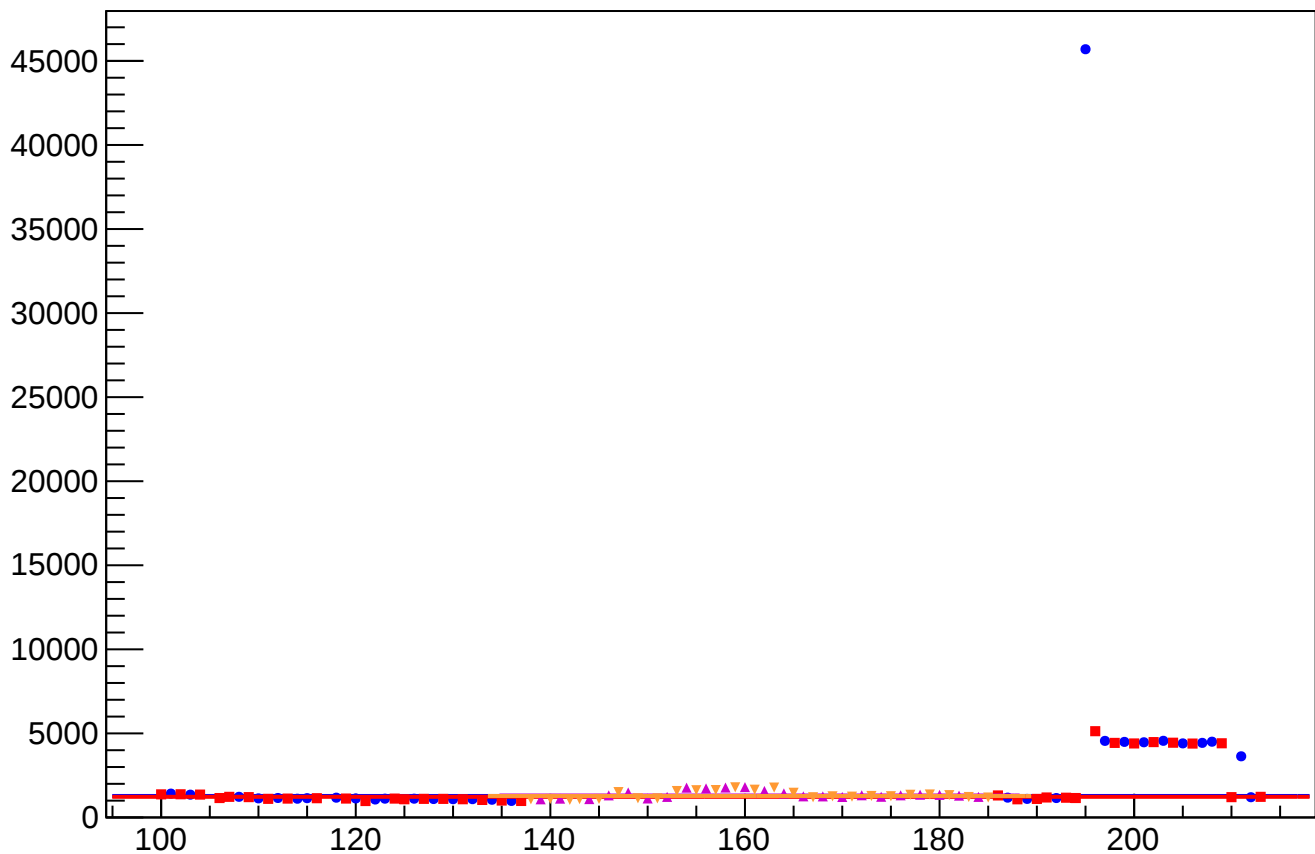
Left In: -1.198 ± 0.318 χ^2/NDF : 31.2/22

+ sign -1.332 ± 0.235 χ^2/NDF : 615.3/54

All: -1.687 ± 0.164 χ^2/NDF : 2239.7/111

- sign -2.025 ± 0.229 χ^2/NDF : 1619.9/56

diff_bpm0l09Y_rms vs Slug



Right In: 1277.711+/-0.263 χ^2/NDF : 7972536.6/29

Left Out: 1277.916+/-0.214 χ^2/NDF : 878127.9/24

Right Out: 1227.876+/-0.233 χ^2/NDF : 5501145.5/33

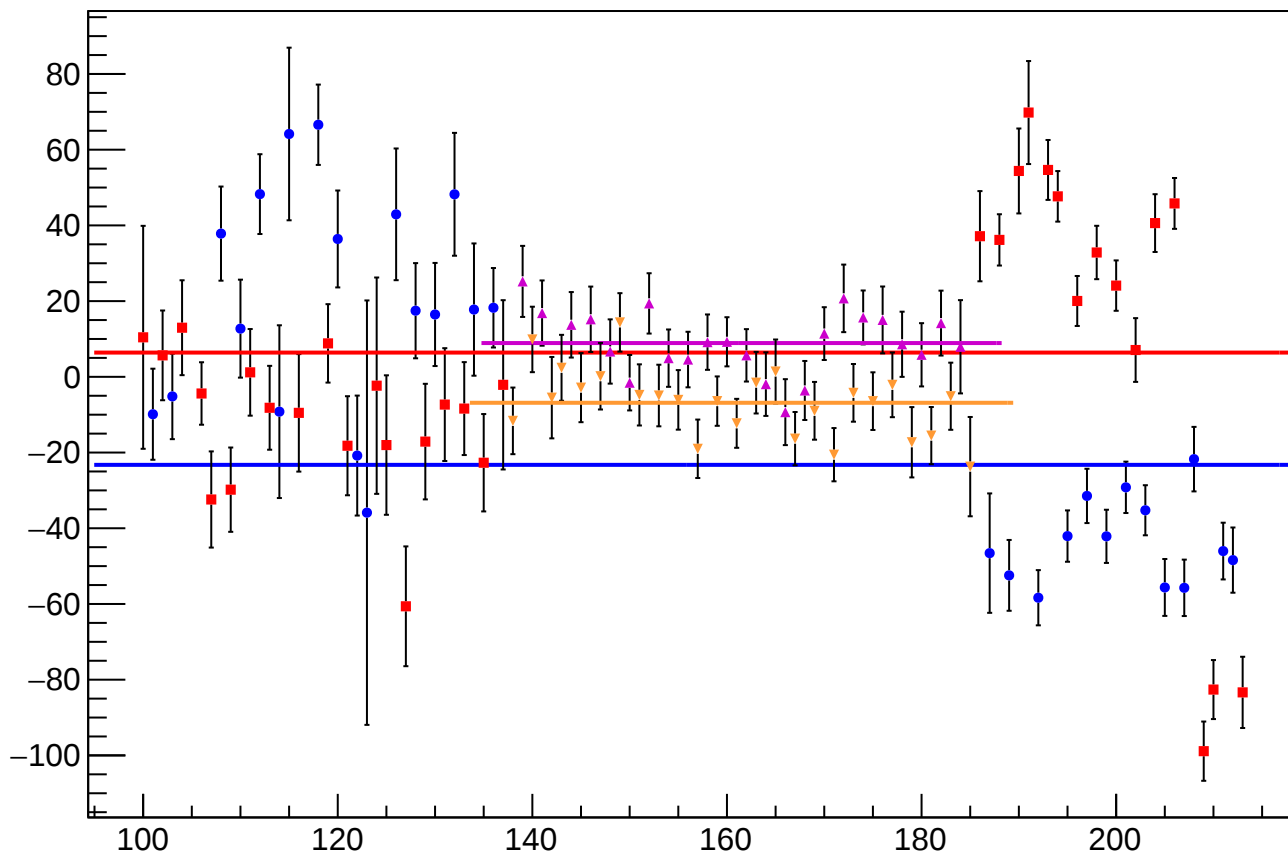
Left In: 1305.541+/-0.225 χ^2/NDF : 760450.8/22

+ sign 1277.835+/-0.166 χ^2/NDF : 8850664.9/54

All: 1272.840+/-0.116 χ^2/NDF : 15171510.3/100

- sign 1268.085+/-0.162 χ^2/NDF : 6319076.1/56

diff_bpm0l10X_mean vs Slug



Right In: -23.251 ± 1.791 χ^2/NDF : 375.1/29

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

Right Out: 6.408 ± 1.681 χ^2/NDF : 681.9/33

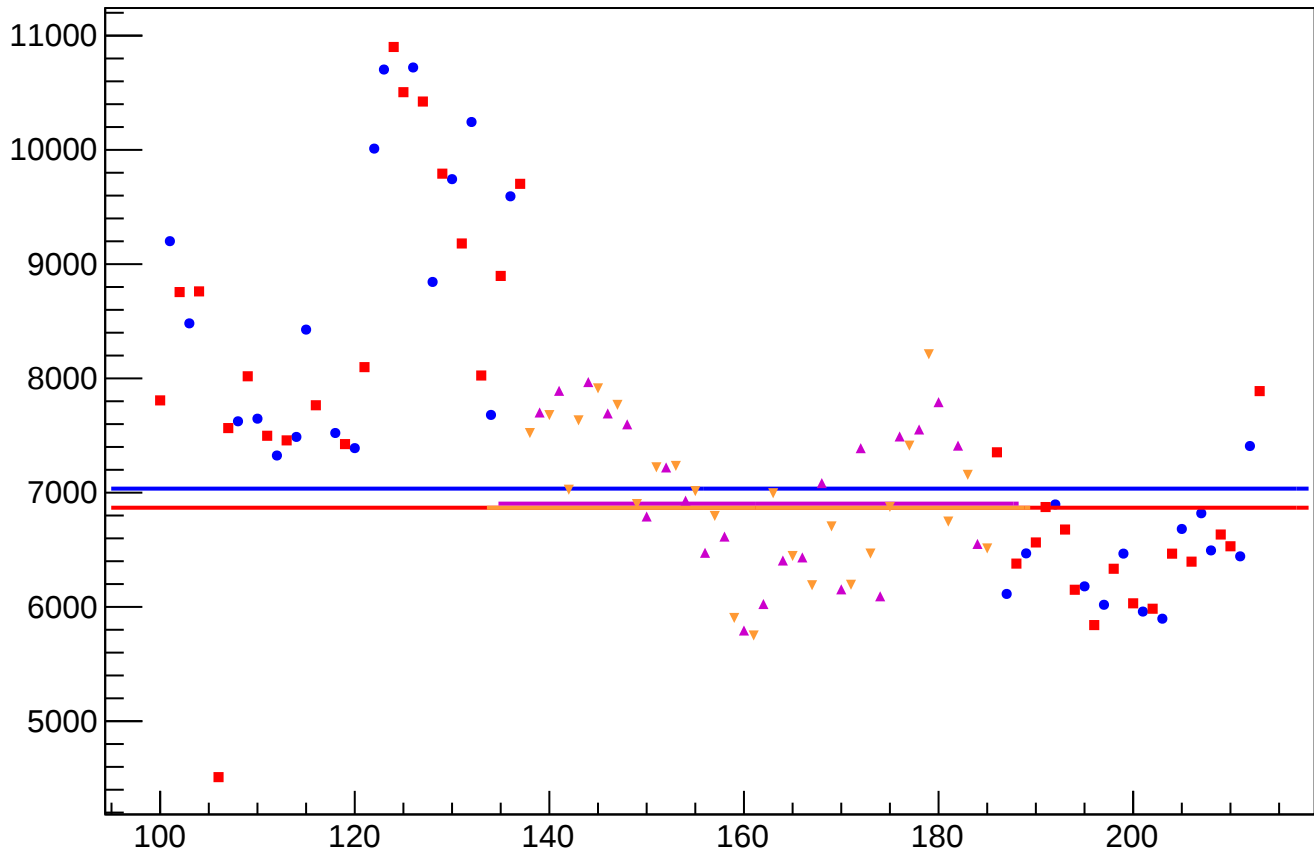
Left In: 8.923 ± 1.674 χ^2/NDF : 21.8/22

+ sign -14.208 ± 1.200 χ^2/NDF : 449.9/54

All: -3.144 ± 0.843 χ^2/NDF : 1323.0/111

- sign 7.670 ± 1.186 χ^2/NDF : 704.9/56

diff_bpm0l10X_rms vs Slug



Right In: 7035.332+/-1.267 χ^2/NDF : 851347.6/29

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

Right Out: 6868.254+/-1.188 χ^2/NDF : 968536.7/33

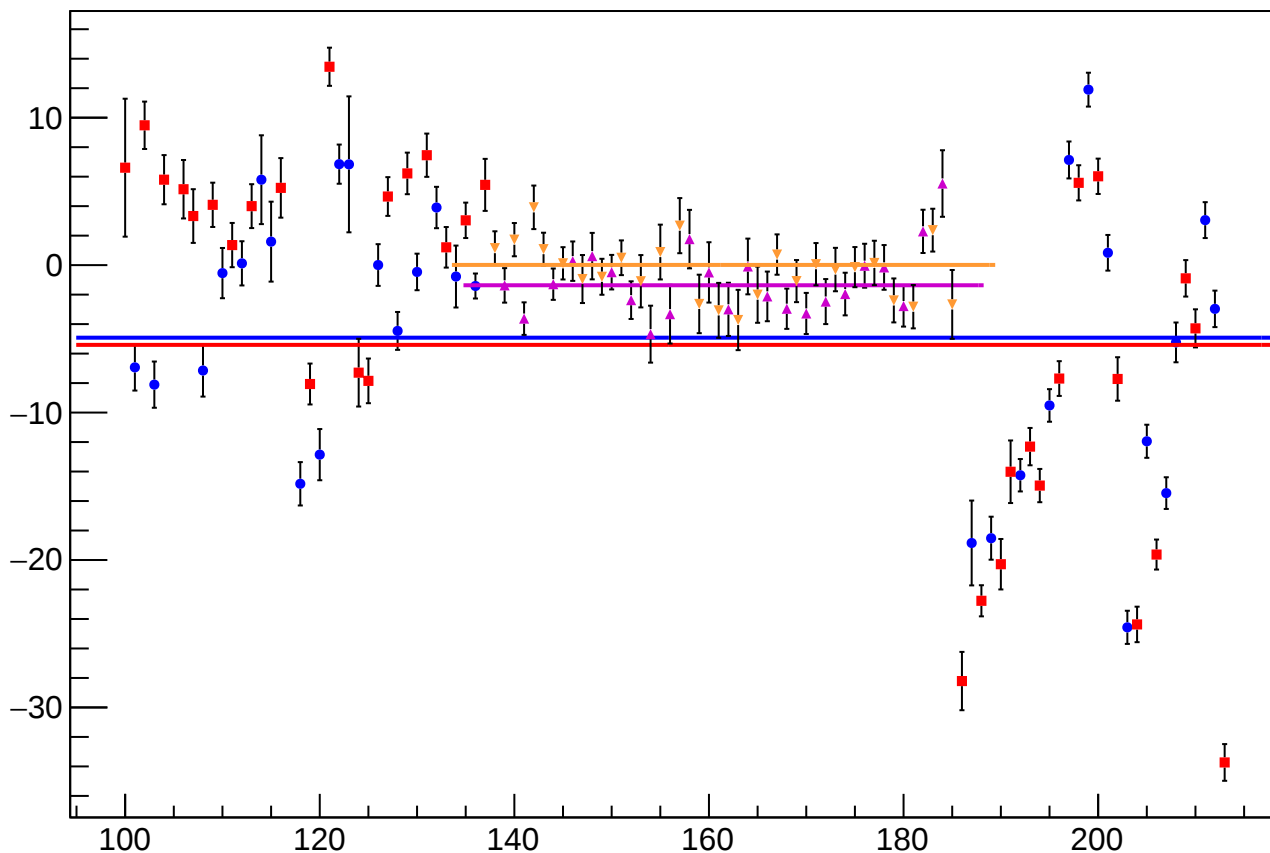
Left In: 6904.117+/-1.184 χ^2/NDF : 325912.6/22

+ sign 6942.702+/-0.848 χ^2/NDF : 1167938.2/54

All: 6914.154+/-0.596 χ^2/NDF : 2465083.9/11

- sign 6886.251+/-0.839 χ^2/NDF : 1294906.4/56

diff_bpm0l10Y_mean vs Slug



Right In: -4.921 ± 0.249 χ^2/NDF : 1296.2/29

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

Right Out: -5.409 ± 0.242 χ^2/NDF : 2604.0/33

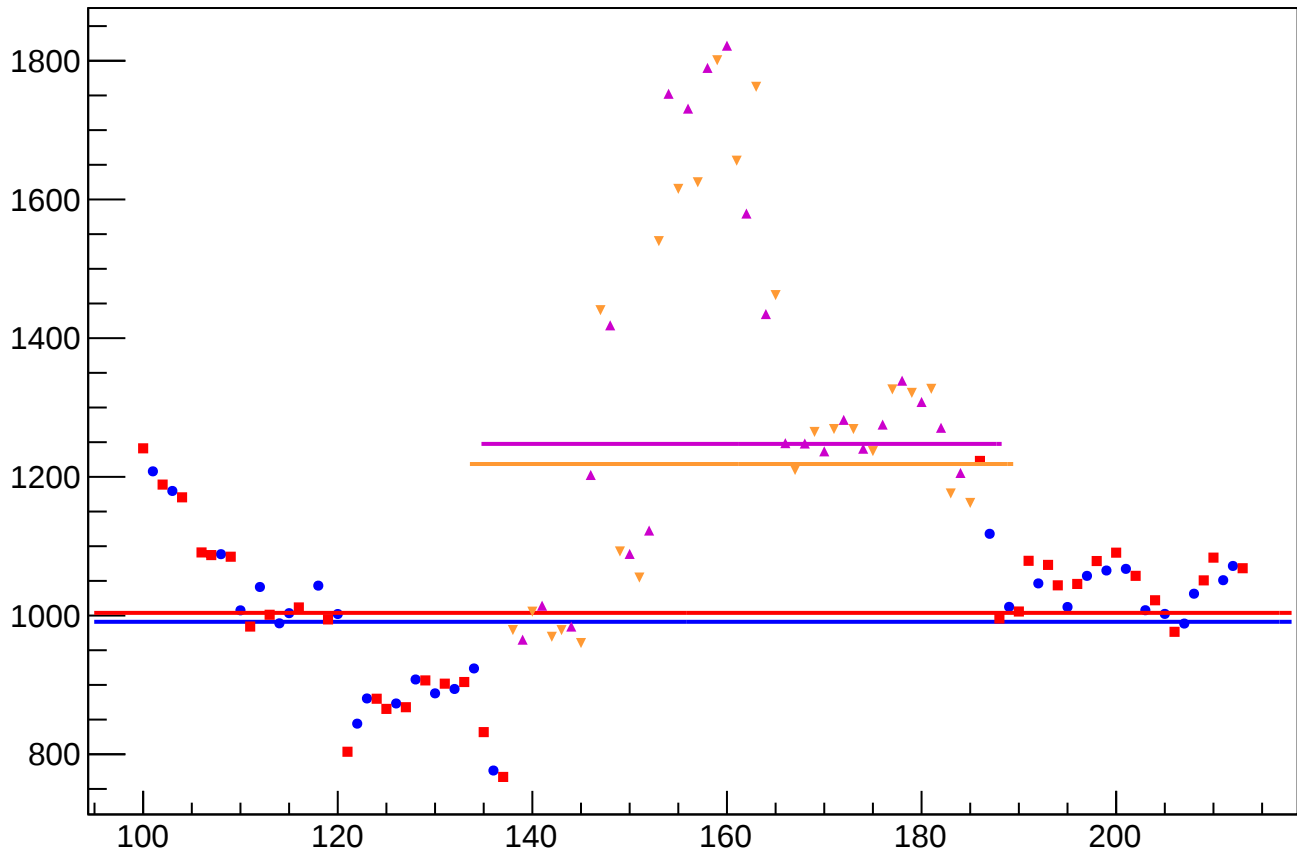
Left In: -1.365 ± 0.306 χ^2/NDF : 38.5/22

+ sign -2.824 ± 0.189 χ^2/NDF : 1497.9/54

All: -3.333 ± 0.134 χ^2/NDF : 4262.5/111

- sign -3.847 ± 0.190 χ^2/NDF : 2750.0/56

diff_bpm0l10Y_rms vs Slug



Right In: 990.996 $\pm$ 0.176 χ^2 /NDF: 327196.9/29

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

Right Out: 1003.885 $\pm$ 0.171 χ^2 /NDF: 341275.7/33

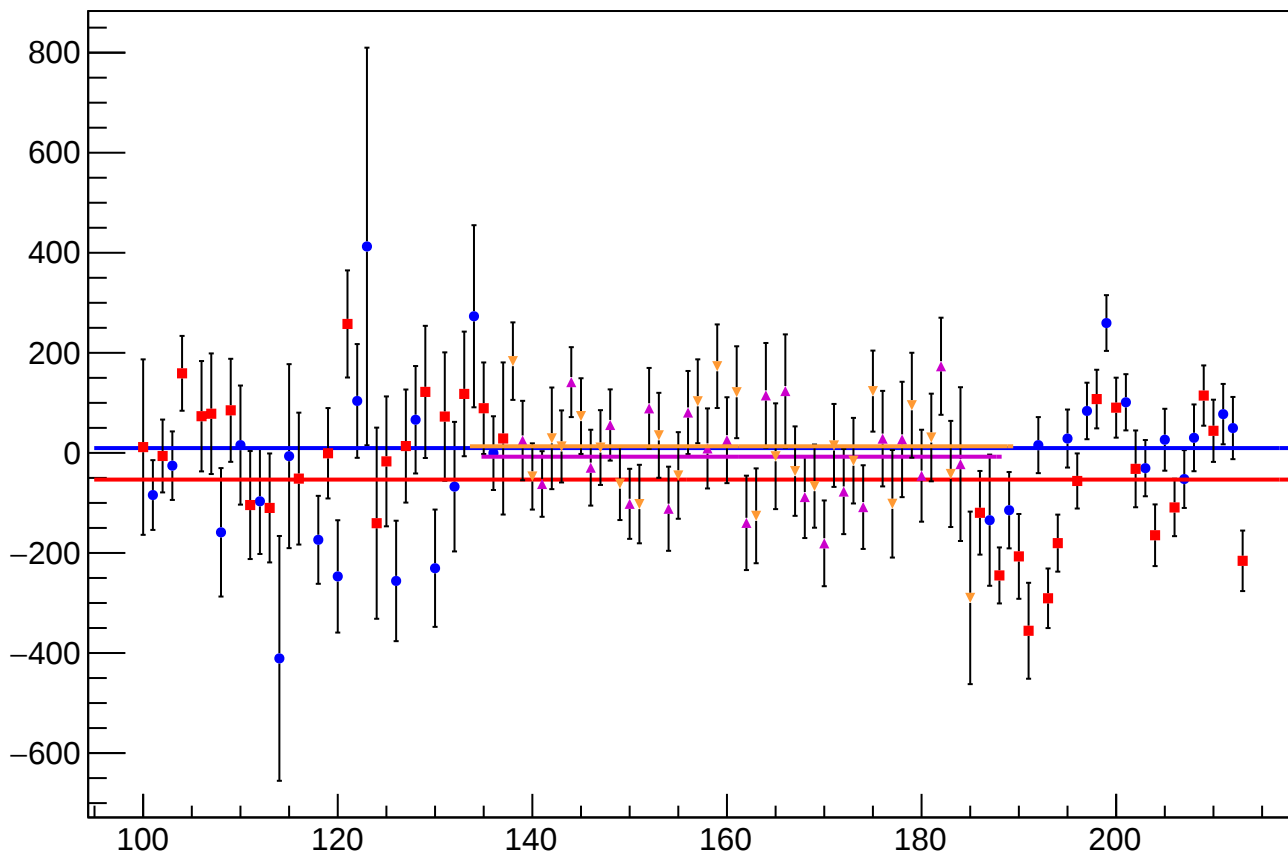
Left In: 1247.538 $\pm$ 0.216 χ^2 /NDF:1073390.3/22

+ sign 1087.684 $\pm$ 0.134 χ^2 /NDF: 2301534.0/54

All: 1092.821 $\pm$ 0.095 χ^2 /NDF: 4499918.3/11

- sign 1098.007 $\pm$ 0.134 χ^2 /NDF: 2195414.5/56

diff_bpm0r03X_mean vs Slug



Right In: 9.628 ± 14.264 χ^2/NDF : 62.9/29

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

Right Out: -53.343 ± 13.688 χ^2/NDF : 111.6/33

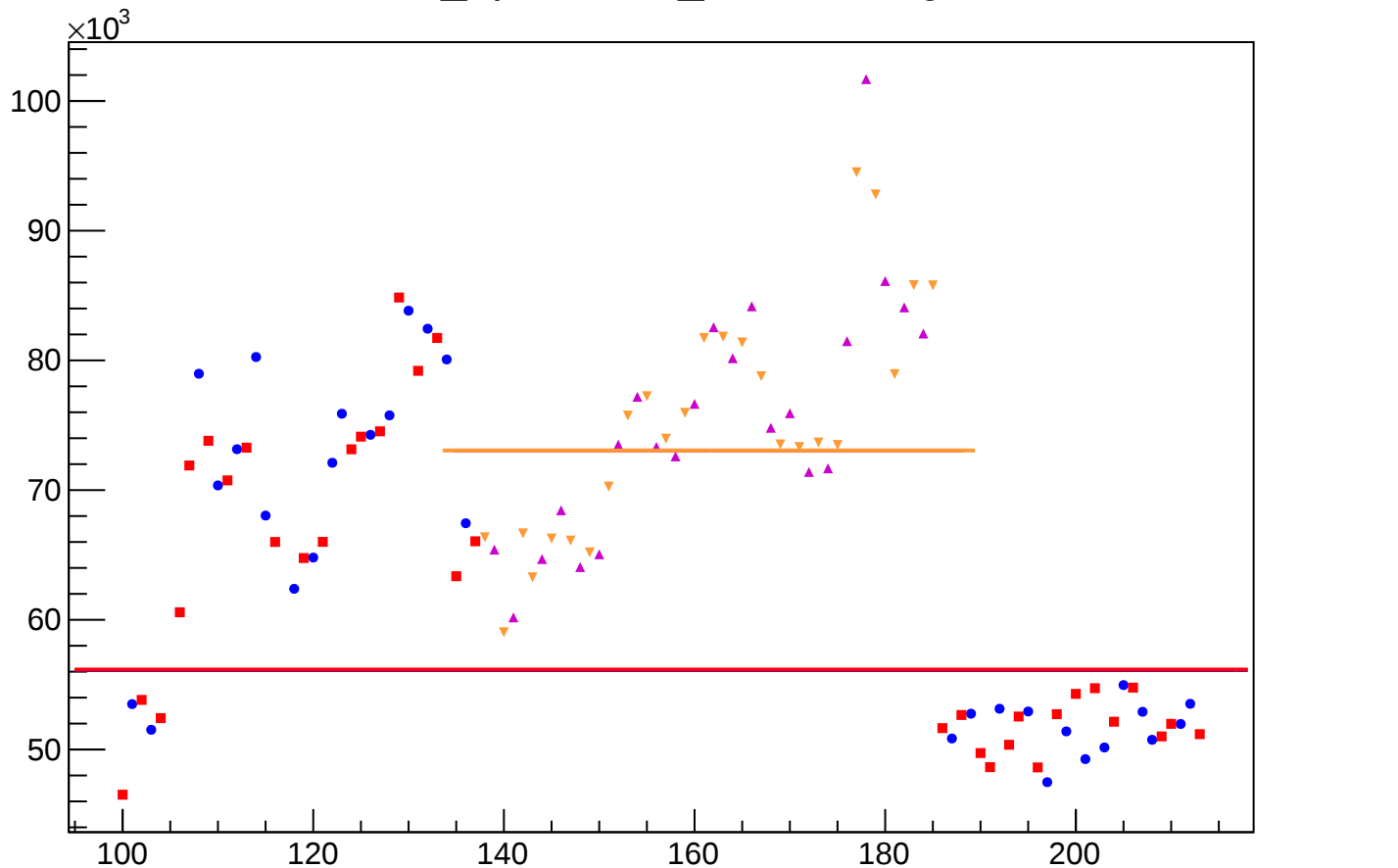
Left In: -7.618 ± 17.672 χ^2/NDF : 28.1/22

+ sign 11.092 ± 10.966 χ^2/NDF : 89.7/54

All: -12.865 ± 7.702 χ^2/NDF : 243.0/111

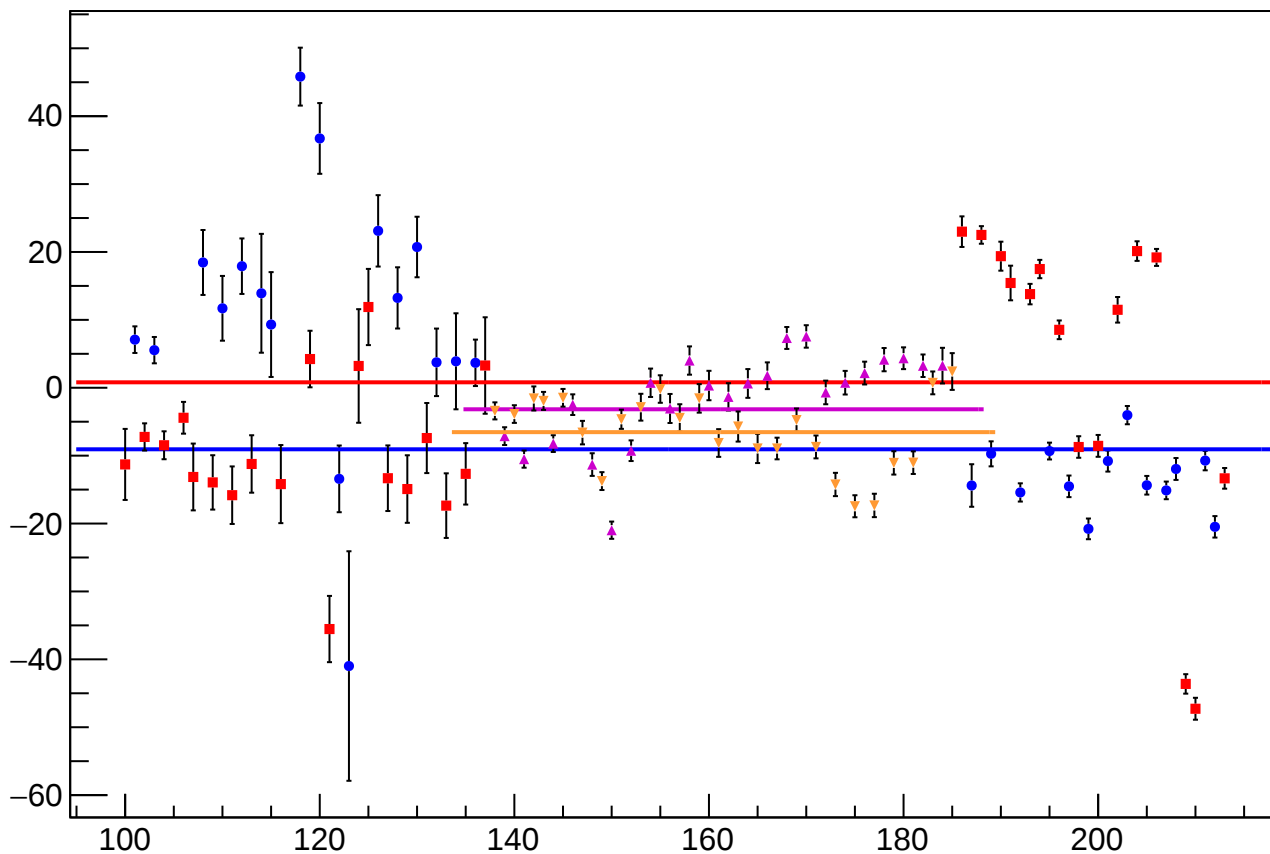
- sign -36.196 ± 10.822 χ^2/NDF : 143.9/56

diff_bpm0r03X_rms vs Slug



Right In: 56125.665 $\pm$ 10.086 χ^2/NDF : 804335.1/29
 Left Out: 73054.401 $\pm$ 12.124 χ^2/NDF :473050.9/24
 Right Out: 56159.936 $\pm$ 9.679 χ^2/NDF : 770527.2/33
 Left In: 73045.500 $\pm$ 12.496 χ^2/NDF :463525.5/22
 + sign 63049.699 $\pm$ 7.754 χ^2/NDF : 2429579.3/54
 - sign 62492.102 $\pm$ 7.652 χ^2/NDF : 2375317.2/56
 All: 62767.216 $\pm$ 5.446 χ^2/NDF : 4807516.4/100

diff_bpm0r03Y_mean vs Slug



Right In: -9.064 ± 0.380 $\chi^2/\text{NDF}: 815.2/29$

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

Right Out: 0.802 ± 0.365 $\chi^2/\text{NDF}: 3380.6/33$

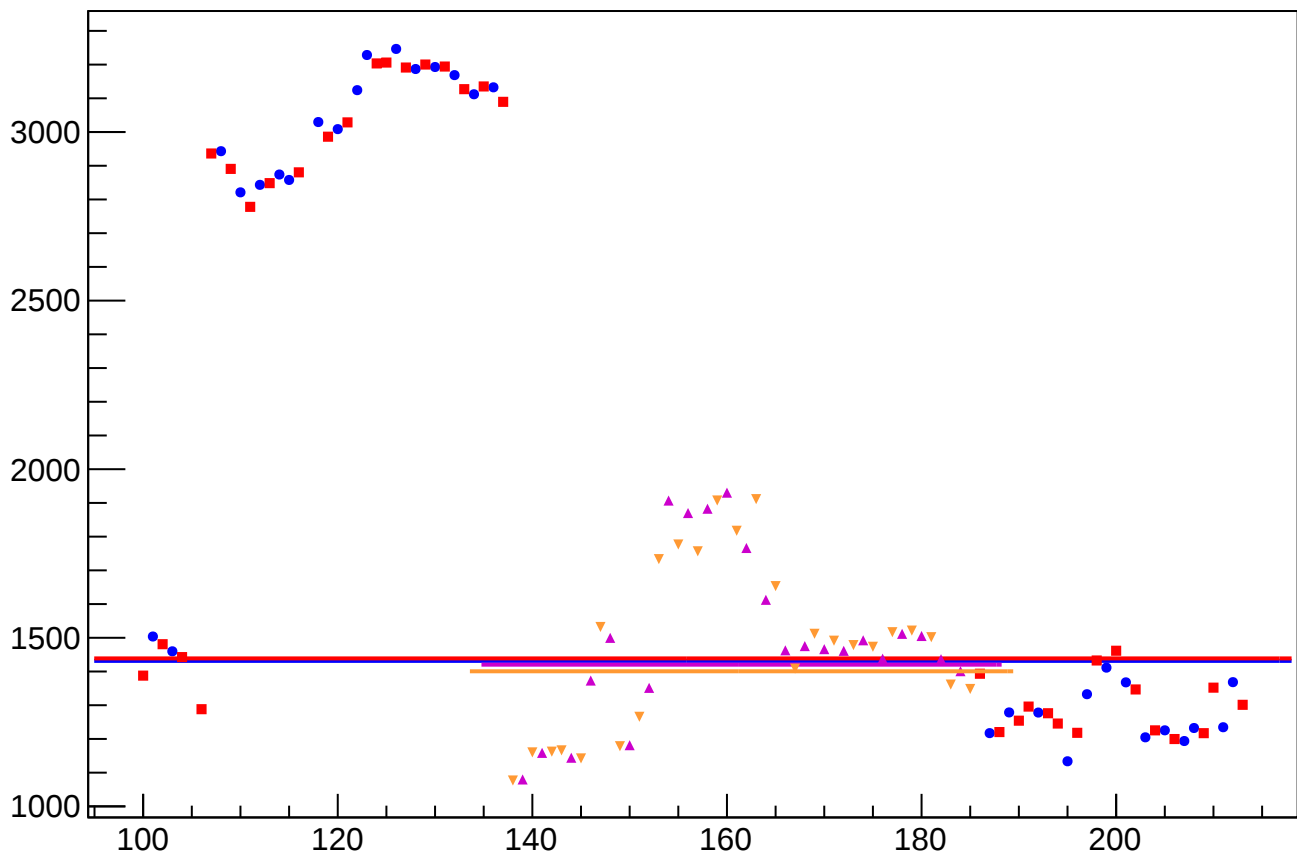
Left In: -3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

+ sign -7.629 ± 0.250 $\chi^2/\text{NDF}: 1093.0/54$

All: -4.475 ± 0.177 $\chi^2/\text{NDF}: 5343.0/111$

- sign -1.289 ± 0.251 $\chi^2/\text{NDF}: 3930.2/56$

diff_bpm0r03Y_rms vs Slug



Right In: 1431.511+/-0.269 χ^2/NDF : 3580061.5/29

Left Out: 1400.637+/-0.235 χ^2/NDF : 1037921.6/24

Right Out: 1438.844+/-0.258 χ^2/NDF : 3553953.0/33

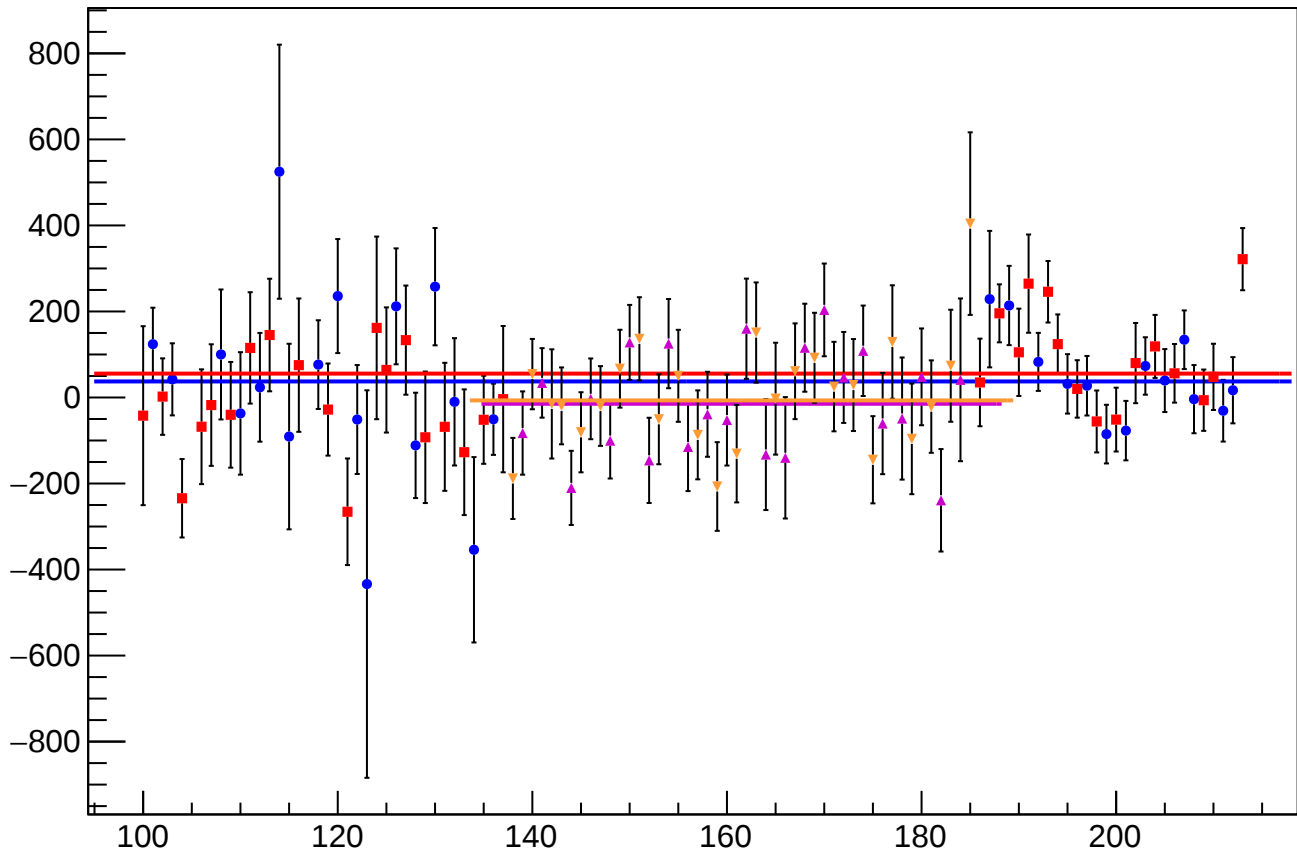
Left In: 1420.285+/-0.245 χ^2/NDF : 905186.2/22

+ sign 1413.979+/-0.177 χ^2/NDF : 4625466.0/54

All: 1421.489+/-0.125 χ^2/NDF : 9090951.2/11

- sign 1429.077+/-0.178 χ^2/NDF : 4461858.1/56

diff_bpm0r05X_mean vs Slug



Right In: 37.294 $\pm$ 17.038 χ^2 /NDF: 34.0/29

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

Right Out: 55.533 $\pm$ 16.399 χ^2 /NDF: 61.4/33

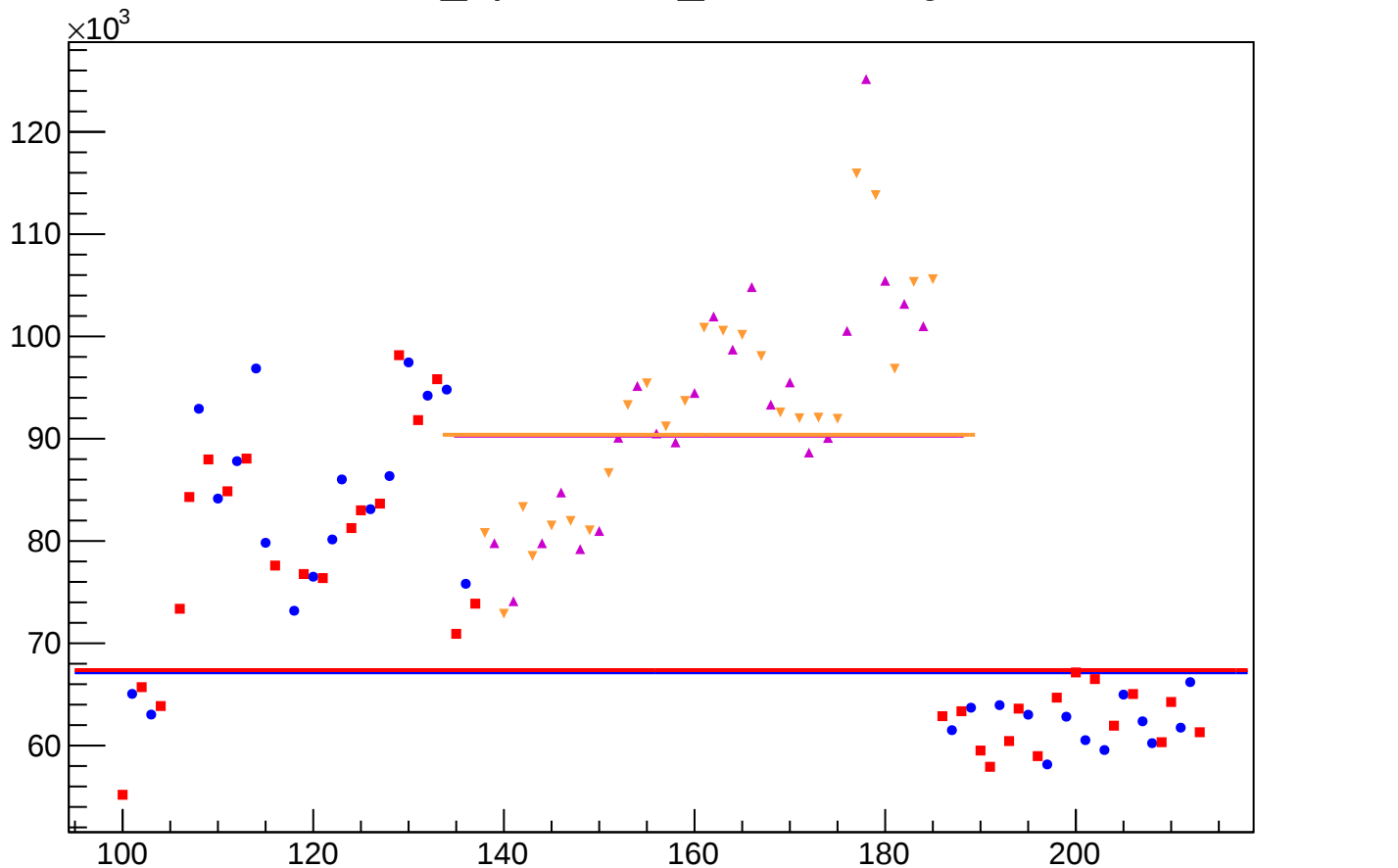
Left In: -14.611 $\pm$ 21.846 χ^2 /NDF: 29.8/22

+ sign 20.008 $\pm$ 13.284 χ^2 /NDF: 61.3/54

All: 25.196 $\pm$ 9.333 χ^2 /NDF: 159.4/111

- sign 30.253 $\pm$ 13.115 χ^2 /NDF: 97.8/56

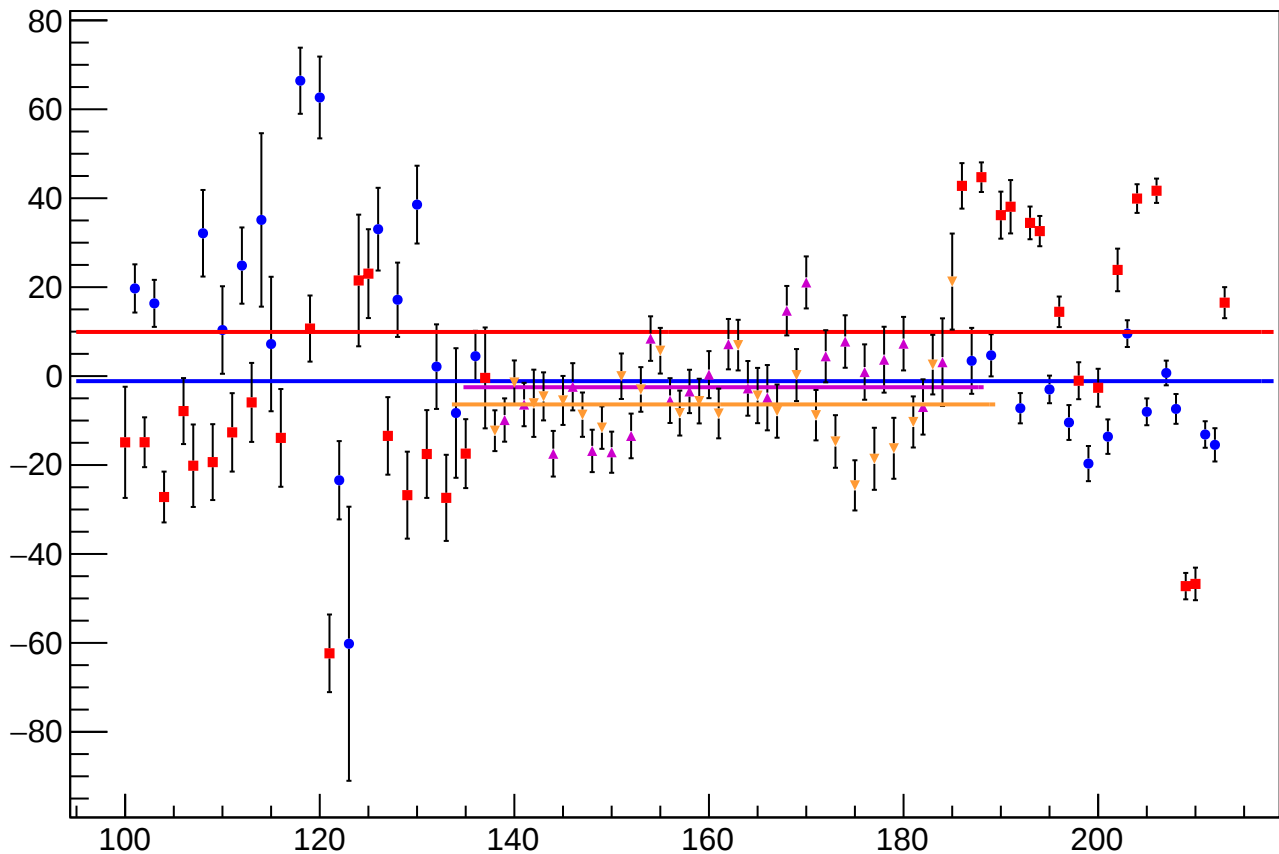
diff_bpm0r05X_rms vs Slug



Right In: 67162.962 ± 12.047 $\chi^2/\text{NDF}: 653894.2/29$
 Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$
 Right Out: 67375.354 ± 11.596 $\chi^2/\text{NDF}: 647684.2/33$
 Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

+ sign 76268.797 ± 9.393 $\chi^2/\text{NDF}: 2572448.1/54$
 All: 75947.924 ± 6.599 $\chi^2/\text{NDF}: 5091604.8/1$
 - sign 75635.145 ± 9.274 $\chi^2/\text{NDF}: 2516852.1/56$

diff_bpm0r05Y_mean vs Slug



Right In: -1.135 ± 0.873 χ^2/NDF : 328.6/29

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: 9.927 ± 0.859 χ^2/NDF : 1383.2/33

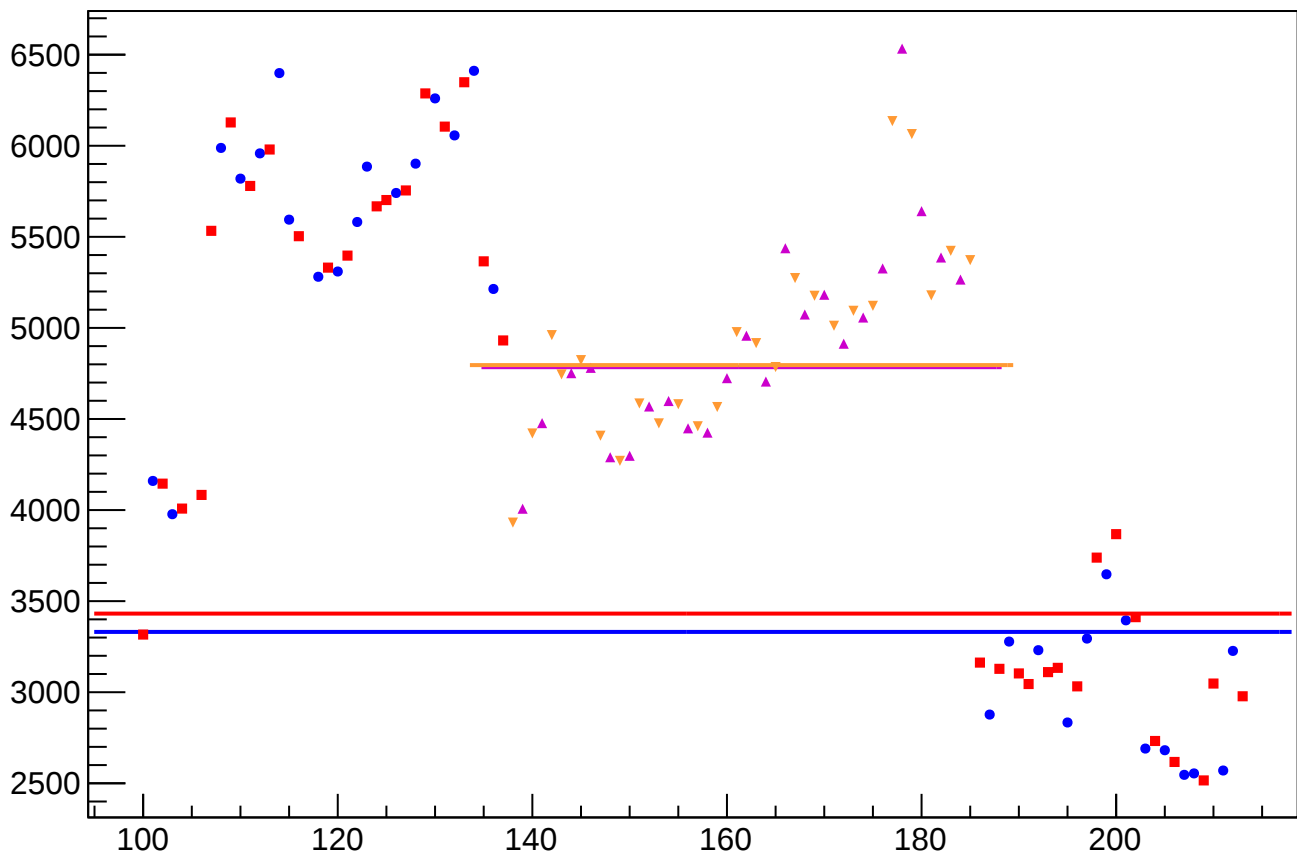
Left In: -2.501 ± 1.156 χ^2/NDF : 78.4/22

+ sign -3.105 ± 0.690 χ^2/NDF : 387.6/54

All: 1.198 ± 0.488 χ^2/NDF : 2001.6/111

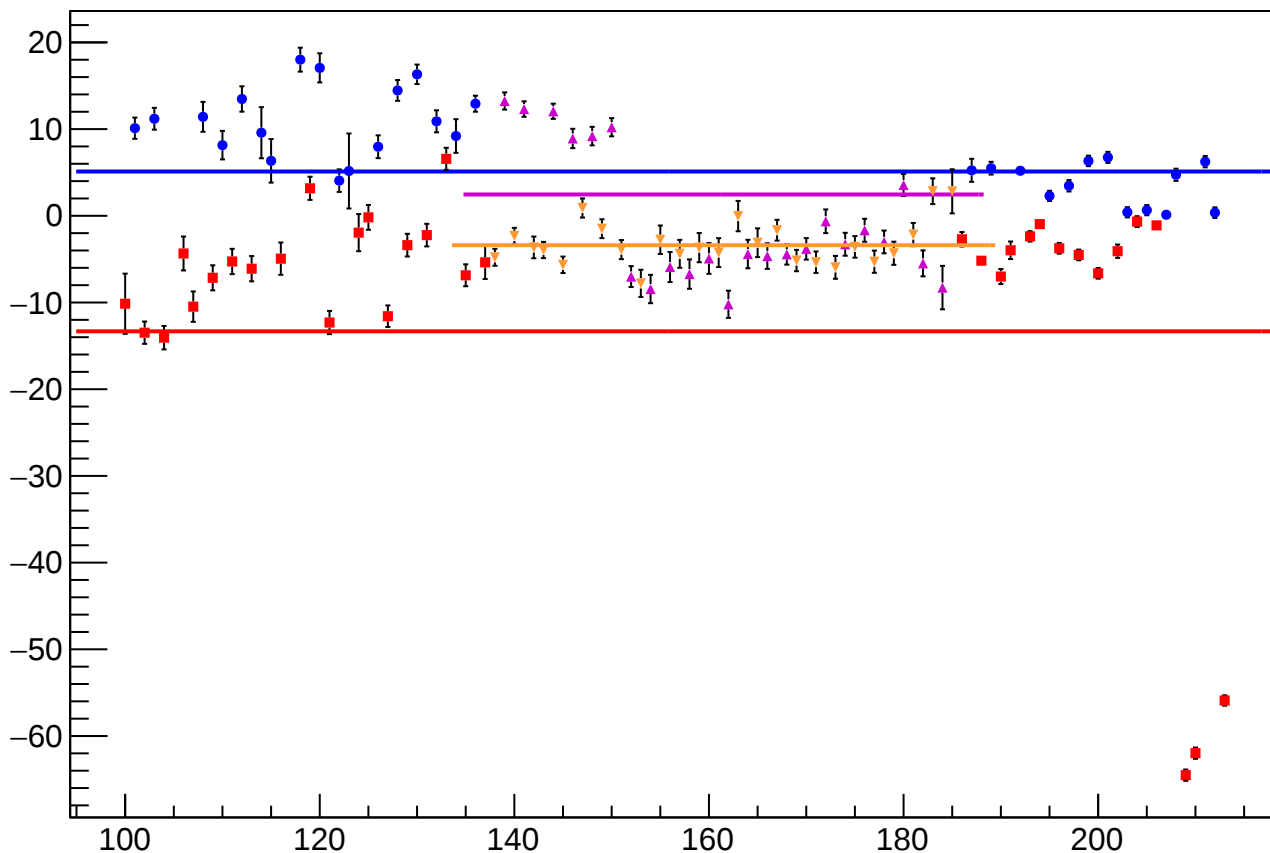
- sign 5.503 ± 0.690 χ^2/NDF : 1536.0/56

diff_bpm0r05Y_rms vs Slug



Right In: 3331.059+/-0.617	χ^2/NDF : 2685927.8/29	+ sign 3882.394+/-0.488	χ^2/NDF : 5165830.6/54
Left Out: 4795.847+/-0.795	χ^2/NDF : 361249.7/24	All: 3897.777+/-0.345	χ^2/NDF : 9864154.3/11
Right Out: 3431.606+/-0.608	χ^2/NDF : 2574535.6/33	- sign 3913.167+/-0.488	χ^2/NDF : 4696332.2/56
Left In: 4784.434+/-0.817	χ^2/NDF : 357507.2/22		

diff_bpm2i01X_mean vs Slug



Right In: 5.109 ± 0.157 χ^2/NDF : 795.9/29

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

Right Out: -13.323 ± 0.149 χ^2/NDF : 20616.4/33

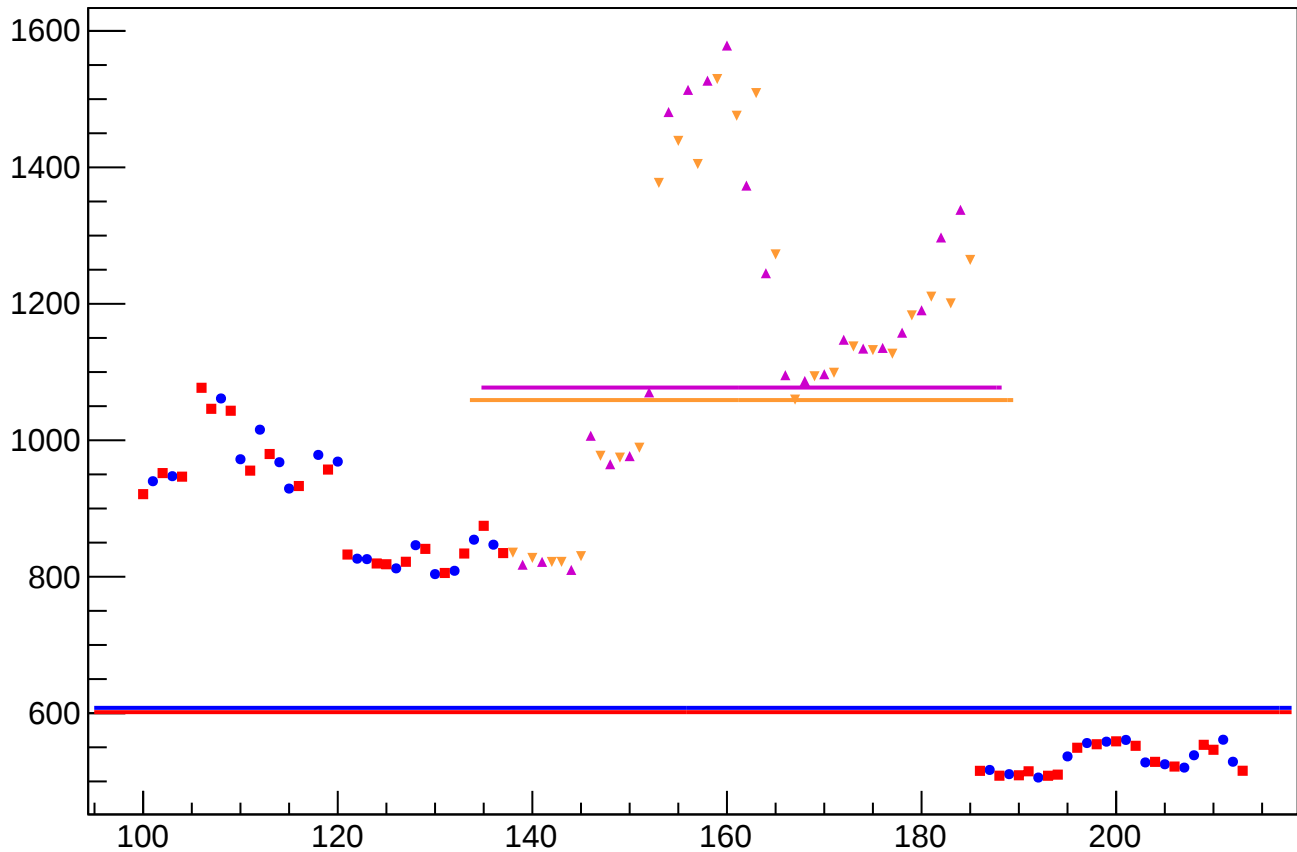
Left In: 2.461 ± 0.264 χ^2/NDF : 928.0/22

+ sign 2.745 ± 0.133 χ^2/NDF : 1693.0/54

All: -3.538 ± 0.093 χ^2/NDF : 30295.0/111

- sign -9.518 ± 0.130 χ^2/NDF : 24249.5/56

diff_bpm2i01X_rms vs Slug



Right In: 607.836 $\pm$ 0.111 χ^2 /NDF: 1822570.8/29

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 601.515 $\pm$ 0.105 χ^2 /NDF: 2085760.4/33

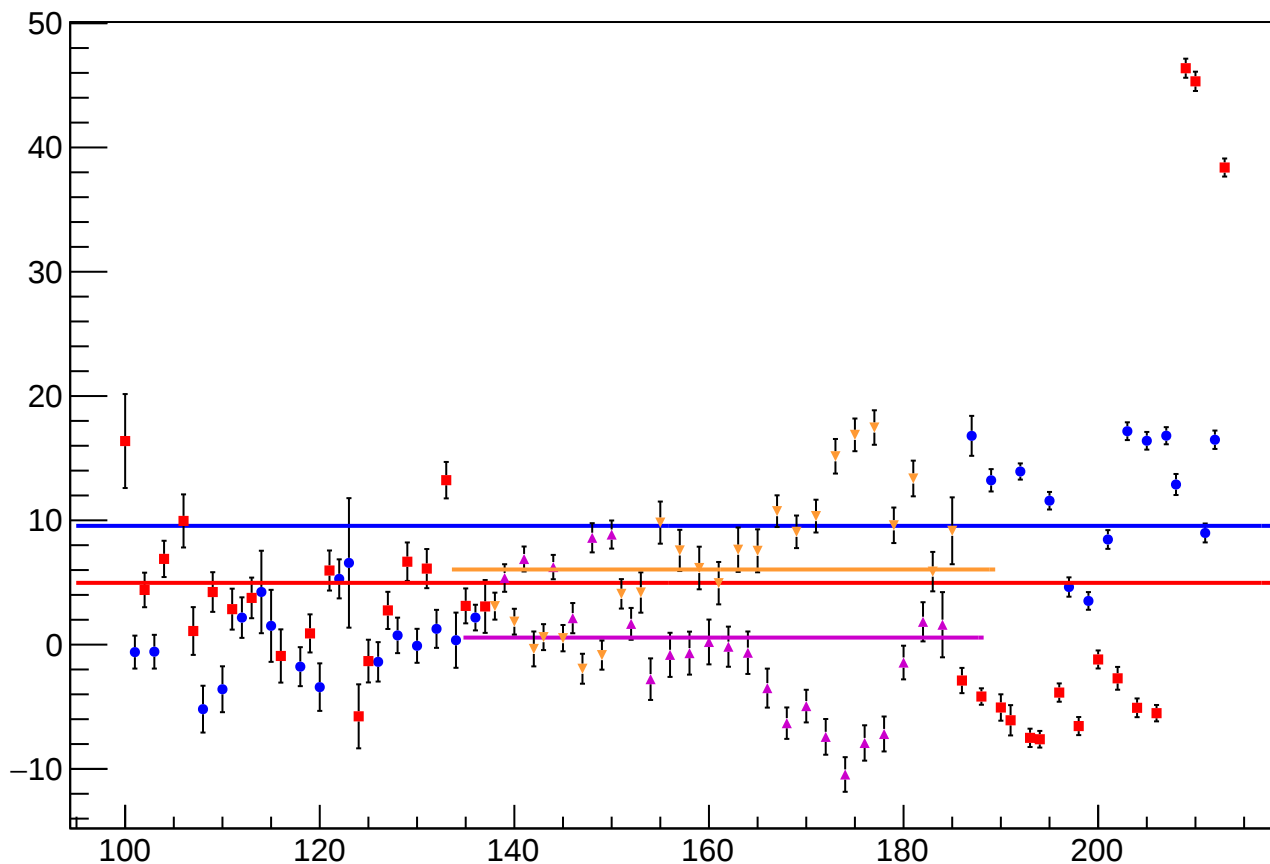
Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF:1280349.9/22

+ sign 733.320 $\pm$ 0.094 χ^2 /NDF: 7842629.1/54

All: 724.555 $\pm$ 0.066 χ^2 /NDF: 16141684.2/11

- sign 716.212 $\pm$ 0.092 χ^2 /NDF: 8282111.6/56

diff_bpm2i01Y_mean vs Slug



Right In: 9.556 ± 0.187 χ^2/NDF : 1221.1/29

Left Out: 6.045 ± 0.272 χ^2/NDF : 430.8/24

Right Out: 4.969 ± 0.178 χ^2/NDF : 9854.6/33

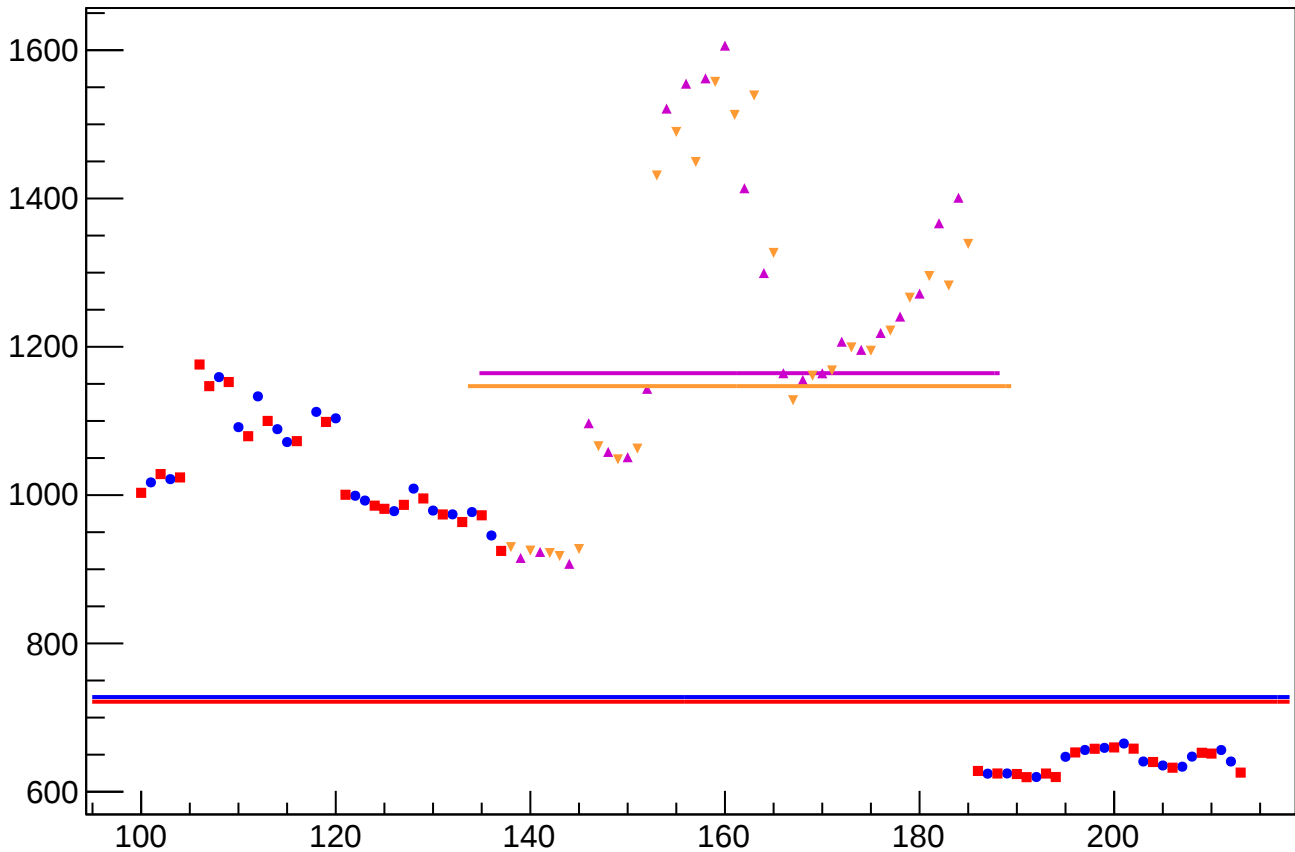
Left In: 0.566 ± 0.284 χ^2/NDF : 417.0/22

+ sign 8.431 ± 0.154 χ^2/NDF : 1765.4/54

All: 6.033 ± 0.108 χ^2/NDF : 12686.3/111

- sign 3.731 ± 0.151 χ^2/NDF : 10444.2/56

diff_bpm2i01Y_rms vs Slug



Right In: 727.675+/-0.132 χ^2/NDF : 1499233.2/29

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

Right Out: 721.408+/-0.126 χ^2/NDF : 1701195.4/33

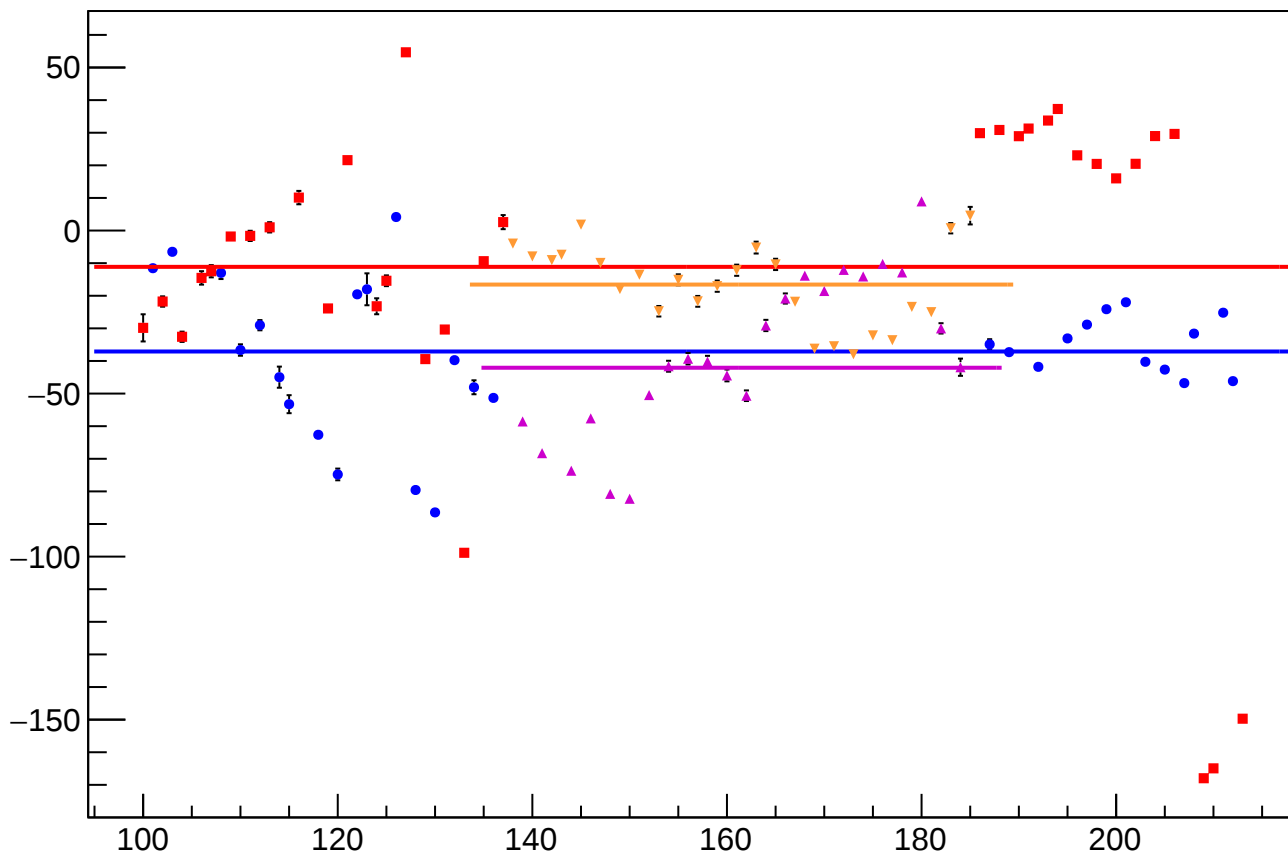
Left In: 1164.432+/-0.201 χ^2/NDF : 944112.0/22

+ sign 861.980+/-0.109 χ^2/NDF : 5782904.9/54

All: 853.808+/-0.076 χ^2/NDF : 11934830.2/119

- sign 845.963+/-0.107 χ^2/NDF : 6140851.9/56

diff_bpm2i02X_mean vs Slug



Right In: -37.094 ± 0.184 χ^2/NDF : 6929.5/29

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: -11.134 ± 0.175 χ^2/NDF : 155352.7/33

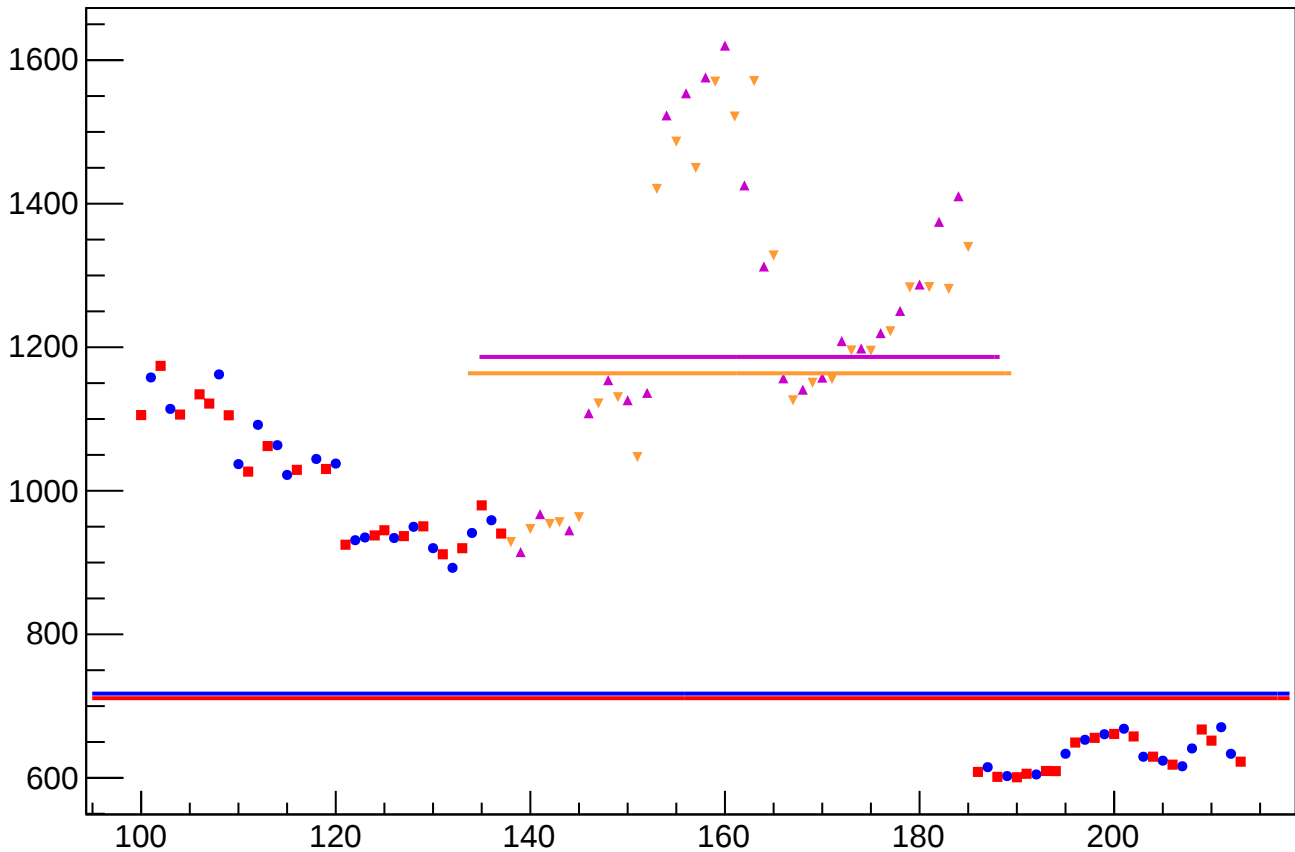
Left In: -42.077 ± 0.289 χ^2/NDF : 8332.3/22

+ sign -30.762 ± 0.153 χ^2/NDF : 12706.3/54

All: -24.981 ± 0.107 χ^2/NDF : 187574.8/111

- sign -19.436 ± 0.150 χ^2/NDF : 172067.6/56

diff_bpm2i02X_rms vs Slug



Right In: 717.403 $\pm$ 0.130 χ^2 /NDF: 1504696.8/29

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

Right Out: 710.994 $\pm$ 0.124 χ^2 /NDF: 1693760.4/33

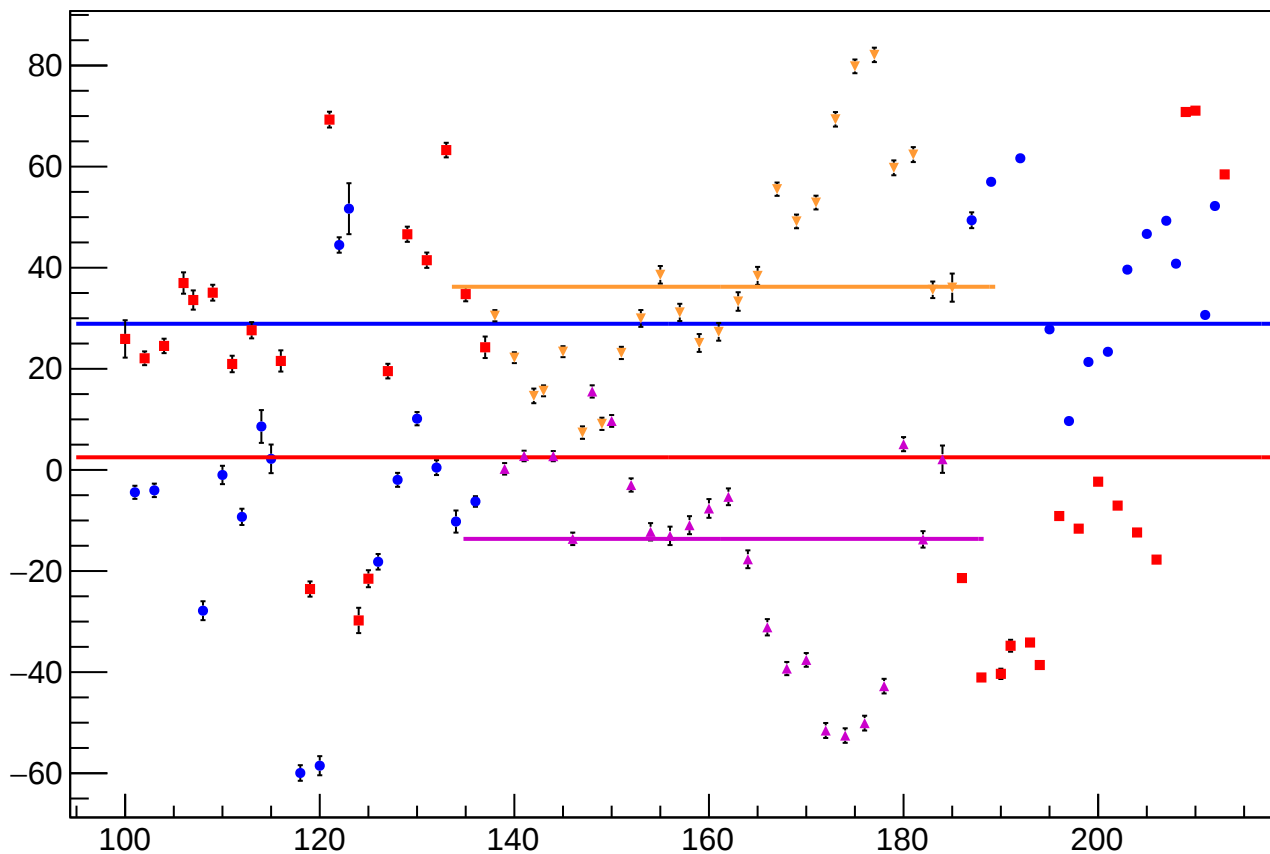
Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

+ sign 855.072 $\pm$ 0.108 χ^2 /NDF: 6076408.6/54

All: 846.648 $\pm$ 0.076 χ^2 /NDF: 12574234.4/11

- sign 838.566 $\pm$ 0.106 χ^2 /NDF: 6485927.7/56

diff_bpm2i02Y_mean vs Slug



Right In: 28.912 ± 0.182 $\chi^2/\text{NDF}: 20039.8/29$

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

Right Out: 2.498 ± 0.173 $\chi^2/\text{NDF}: 48029.4/33$

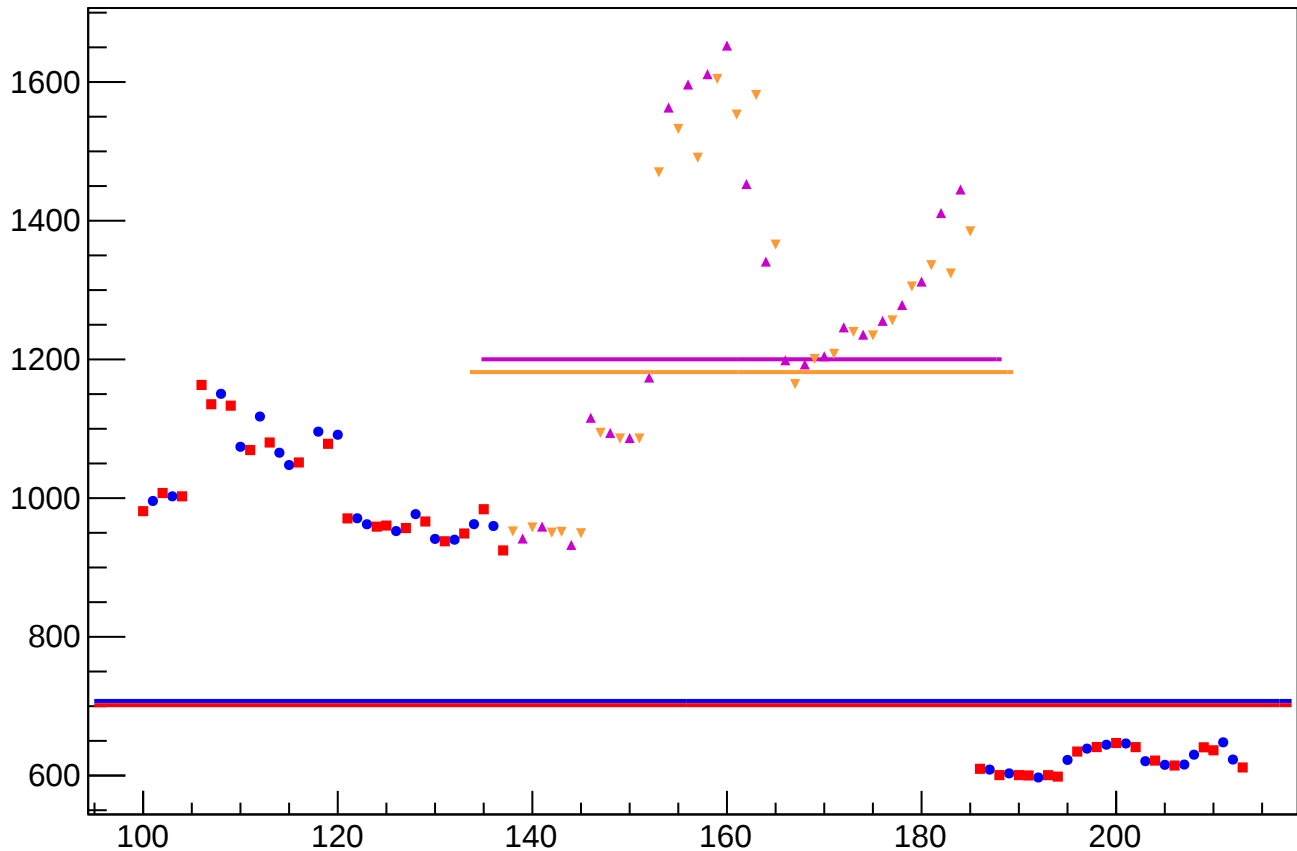
Left In: -13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

+ sign 31.080 ± 0.152 $\chi^2/\text{NDF}: 26315.9/54$

All: 14.333 ± 0.106 $\chi^2/\text{NDF}: 105428.2/111$

- sign -1.675 ± 0.149 $\chi^2/\text{NDF}: 55459.6/56$

diff_bpm2i02Y_rms vs Slug



Right In: 707.553+/-0.128 χ^2/NDF : 1569413.3/29

Left Out: 1181.732+/-0.198 χ^2/NDF : 1043520.8/24

Right Out: 701.498+/-0.122 χ^2/NDF : 1773993.2/33

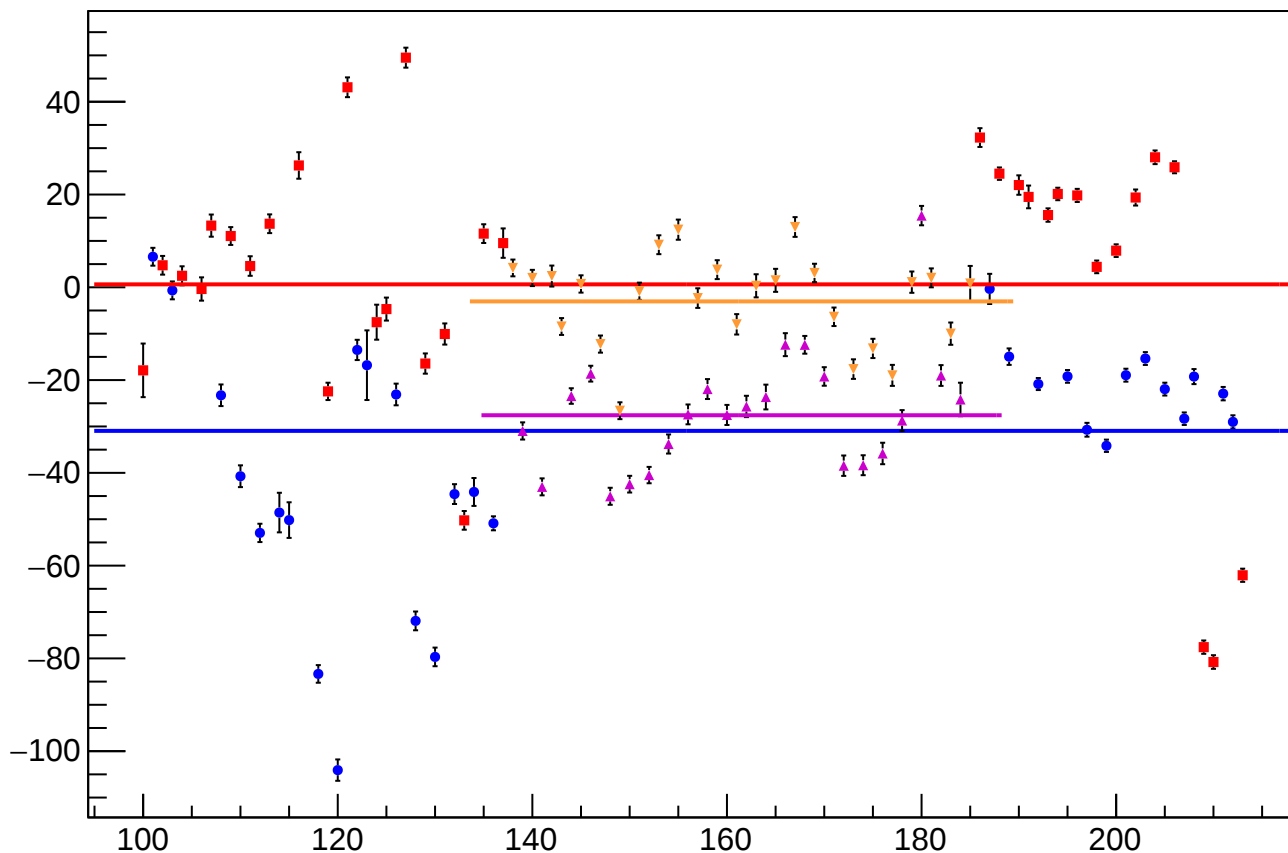
Left In: 1200.198+/-0.207 χ^2/NDF : 938224.7/22

+ sign 847.942+/-0.108 χ^2/NDF : 6654241.2/54

All: 839.005+/-0.075 χ^2/NDF : 13681629.5/11

- sign 830.462+/-0.105 χ^2/NDF : 7013916.3/56

diff_bpm0i02X_mean vs Slug



Right In: -30.948 ± 0.325 $\chi^2/\text{NDF}: 4544.9/29$

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

Right Out: 0.634 ± 0.312 $\chi^2/\text{NDF}: 12119.9/33$

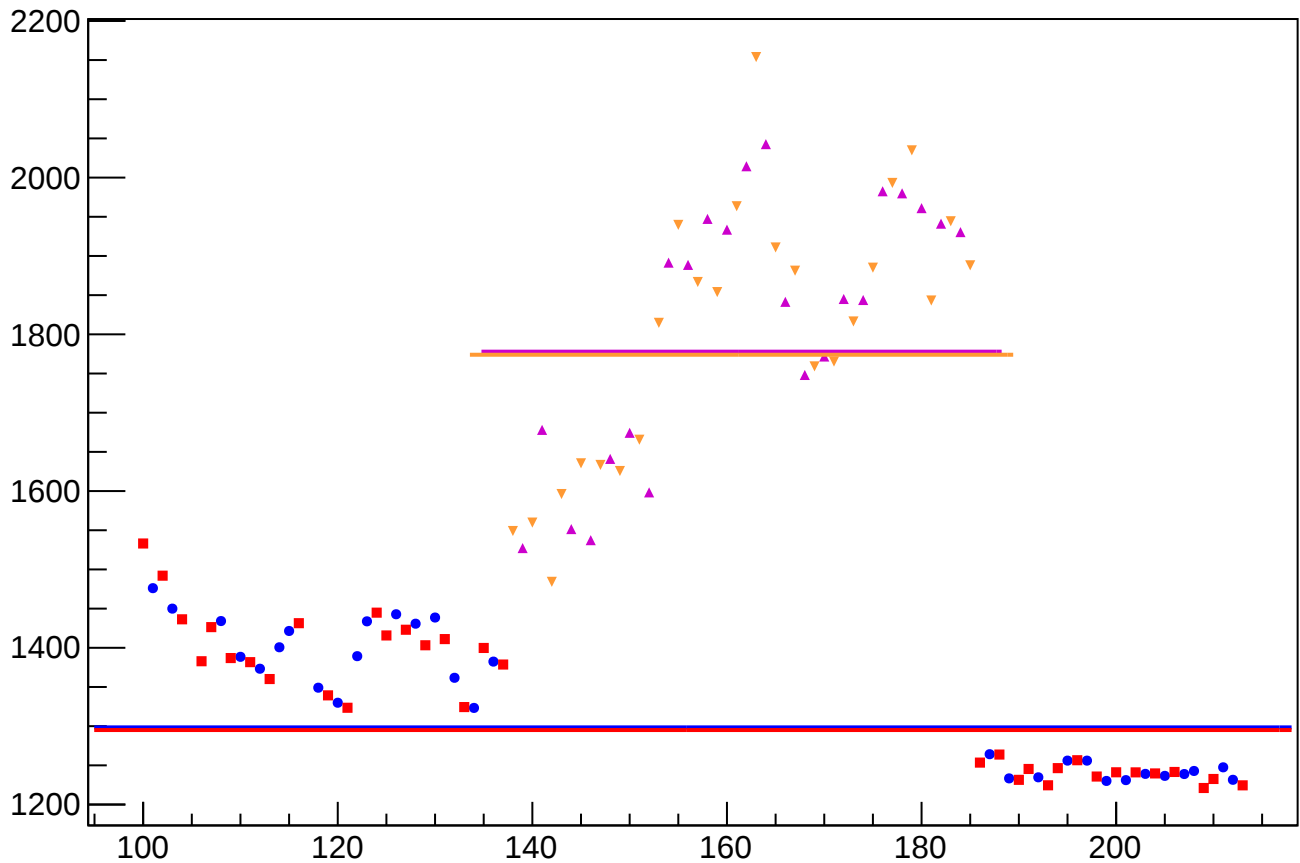
Left In: -27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

+ sign -20.325 ± 0.256 $\chi^2/\text{NDF}: 7901.1/54$

All: -14.631 ± 0.180 $\chi^2/\text{NDF}: 24786.2/111$

- sign -9.112 ± 0.252 $\chi^2/\text{NDF}: 15911.6/56$

diff_bpm0i02X_rms vs Slug



Right In: 1298.447 $\pm$ 0.230 χ^2 /NDF: 127224.7/29

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

Right Out: 1295.056 $\pm$ 0.220 χ^2 /NDF: 131186.7/33

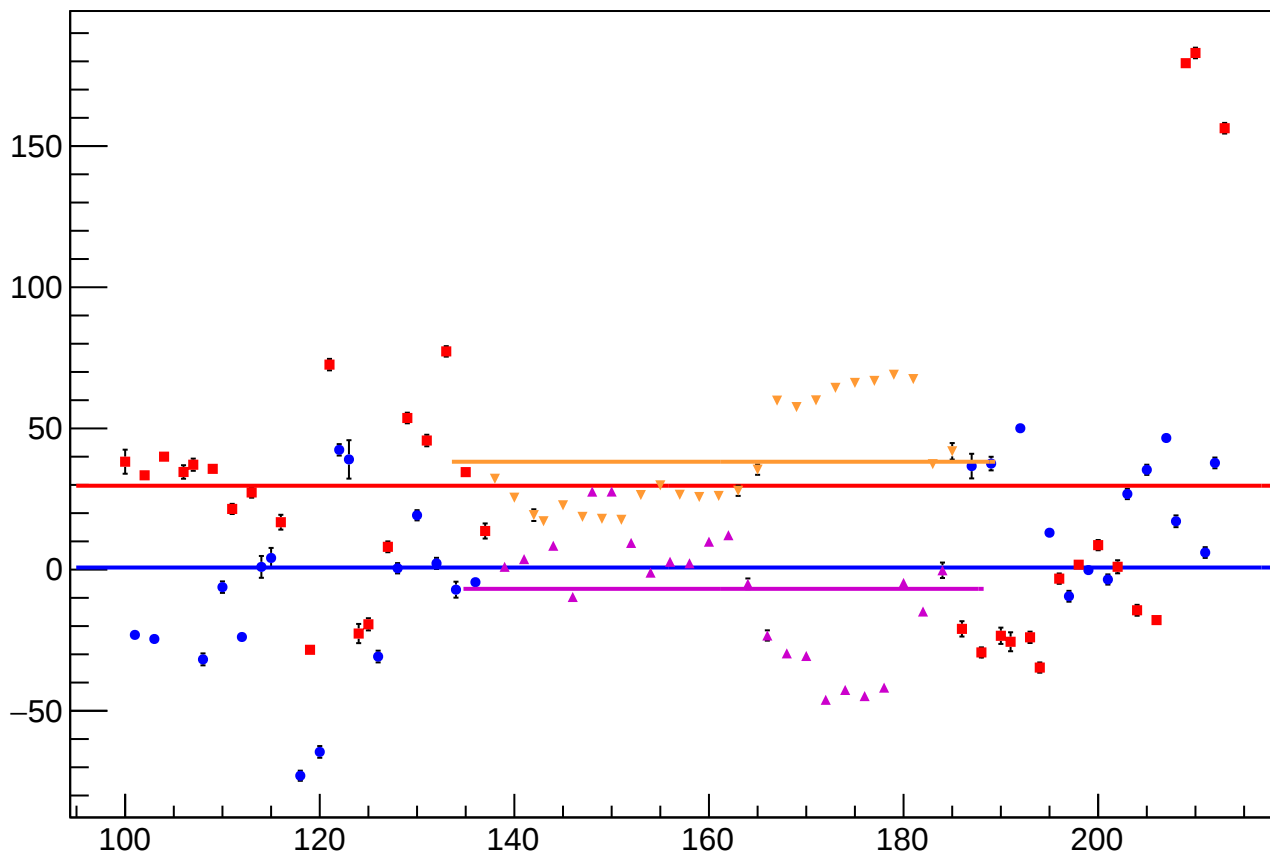
Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF:299514.0/22

+ sign 1479.436 $\pm$ 0.181 χ^2 /NDF: 2066003.9/54

All: 1470.493 $\pm$ 0.127 χ^2 /NDF: 4159678.0/11

- sign 1461.823 $\pm$ 0.178 χ^2 /NDF: 2088870.0/56

diff_bpm0i02Y_mean vs Slug



Right In: 0.744 ± 0.355 χ^2/NDF : 7325.0/29

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

Right Out: 29.710 ± 0.341 χ^2/NDF : 28384.5/33

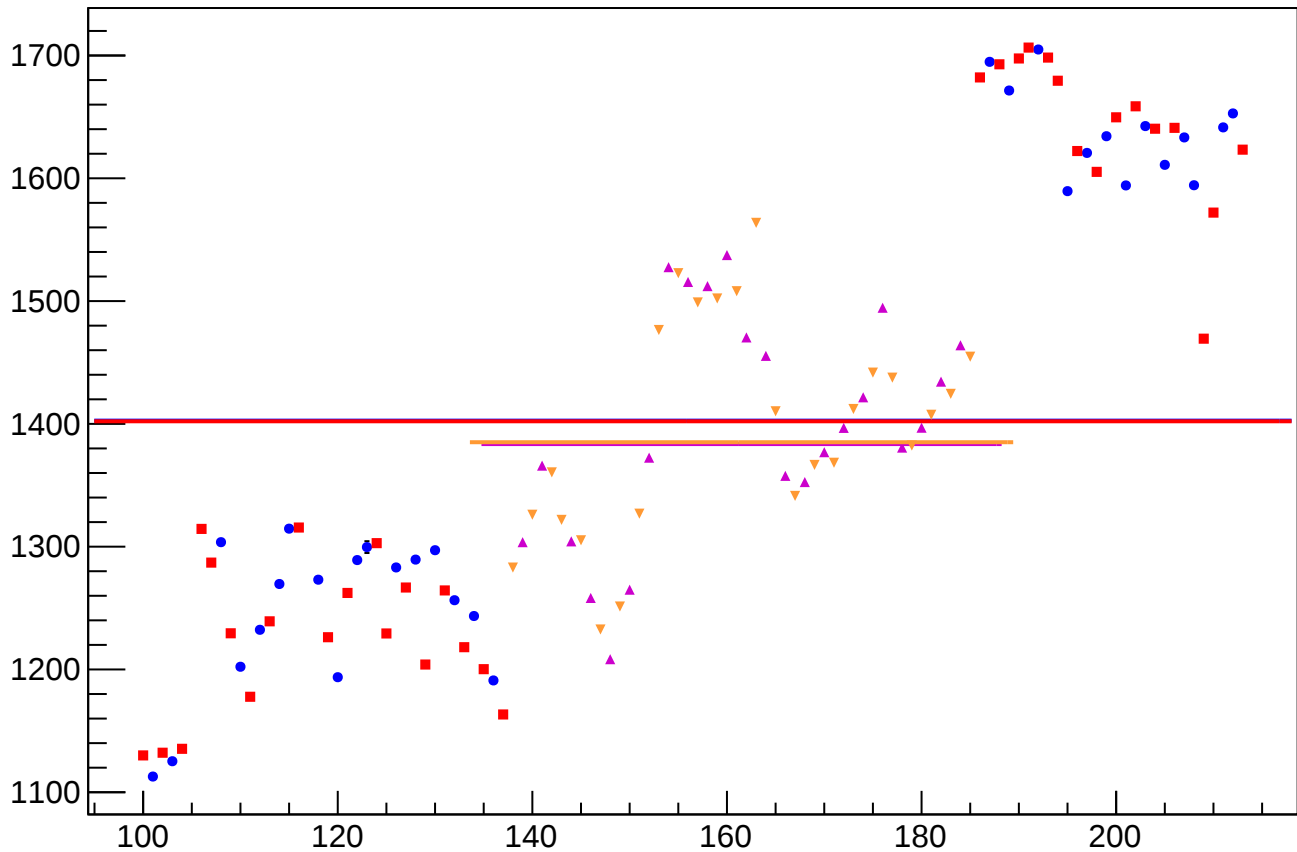
Left In: -6.808 ± 0.333 χ^2/NDF : 4494.5/22

+ sign 21.209 ± 0.239 χ^2/NDF : 16928.6/54

All: 16.103 ± 0.169 χ^2/NDF : 56593.7/111

- sign 11.035 ± 0.238 χ^2/NDF : 38755.8/56

diff_bpm0i02Y_rms vs Slug



Right In: 1402.635 $\pm$ 0.251 χ^2 /NDF: 697918.2/29

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

Right Out: 1402.115 $\pm$ 0.241 χ^2 /NDF: 787061.6/33

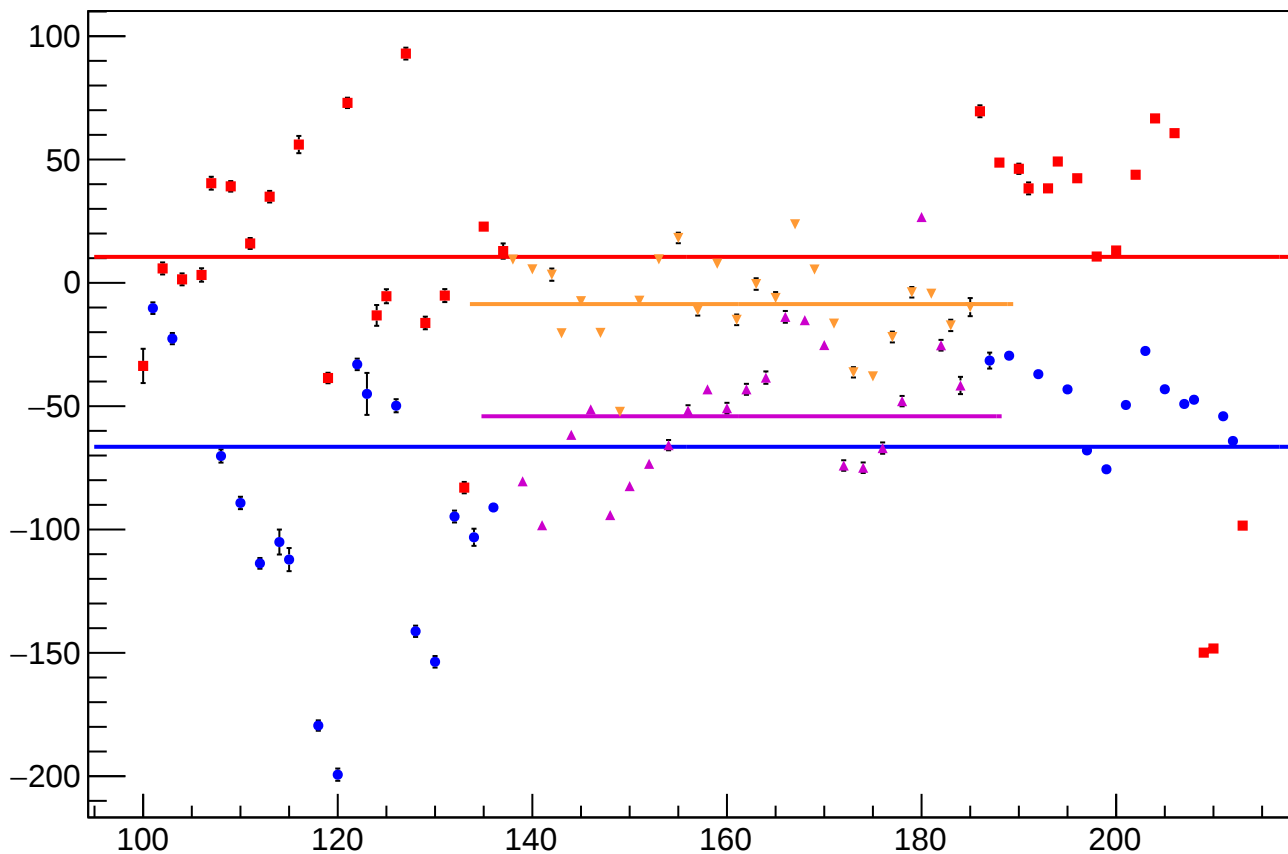
Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

+ sign 1393.036 $\pm$ 0.169 χ^2 /NDF: 846599.1/54

All: 1392.830 $\pm$ 0.119 χ^2 /NDF: 1791394.6/11

- sign 1392.625 $\pm$ 0.168 χ^2 /NDF: 944792.5/56

diff_bpm0i02aX_mean vs Slug



Right In: -66.459 ± 0.365 χ^2/NDF : 13110.0/29

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

Right Out: 10.531 ± 0.346 χ^2/NDF : 32719.2/33

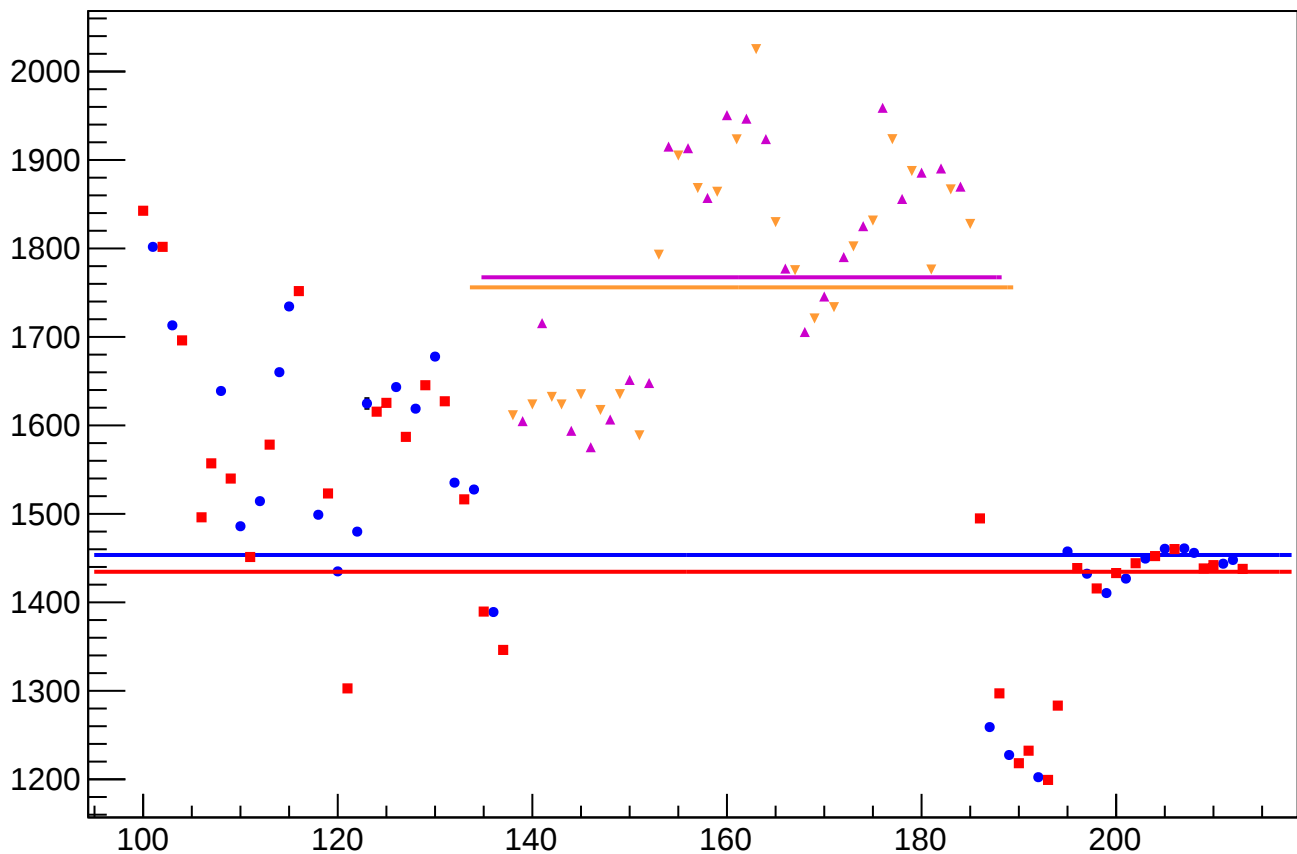
Left In: -54.089 ± 0.426 χ^2/NDF : 4721.6/22

+ sign -40.889 ± 0.273 χ^2/NDF : 26139.4/54

All: -27.839 ± 0.191 χ^2/NDF : 81966.2/111

- sign -15.187 ± 0.269 χ^2/NDF : 51316.7/56

diff_bpm0i02aX_rms vs Slug



Right In: 1453.541 ± 0.258 χ^2/NDF : 261673.3/29

Left Out: 1756.034 ± 0.290 χ^2/NDF : 175762.3/24

Right Out: 1434.560 ± 0.245 χ^2/NDF : 308801.1/33

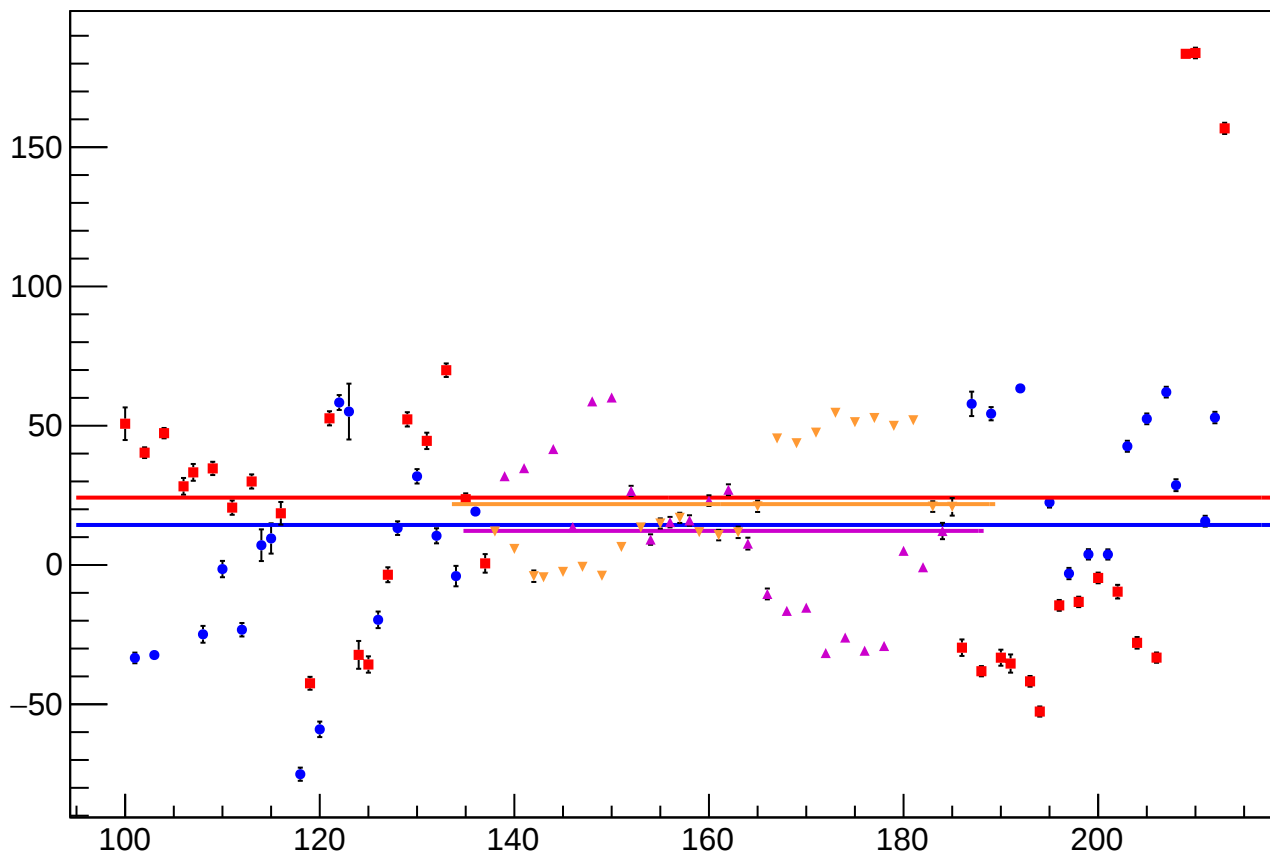
Left In: 1767.410 ± 0.301 χ^2/NDF : 187958.2/22

+ sign 1587.235 ± 0.193 χ^2/NDF : 1044284.6/54

All: 1576.976 ± 0.135 χ^2/NDF : 2282912.2/11

- sign 1567.030 ± 0.190 χ^2/NDF : 1233053.5/56

diff_bpm0i02aY_mean vs Slug



Right In: 14.372 $\pm$ 0.417 χ^2 /NDF: 7311.9/29

Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24

Right Out: 24.193 $\pm$ 0.397 χ^2 /NDF: 31157.7/33

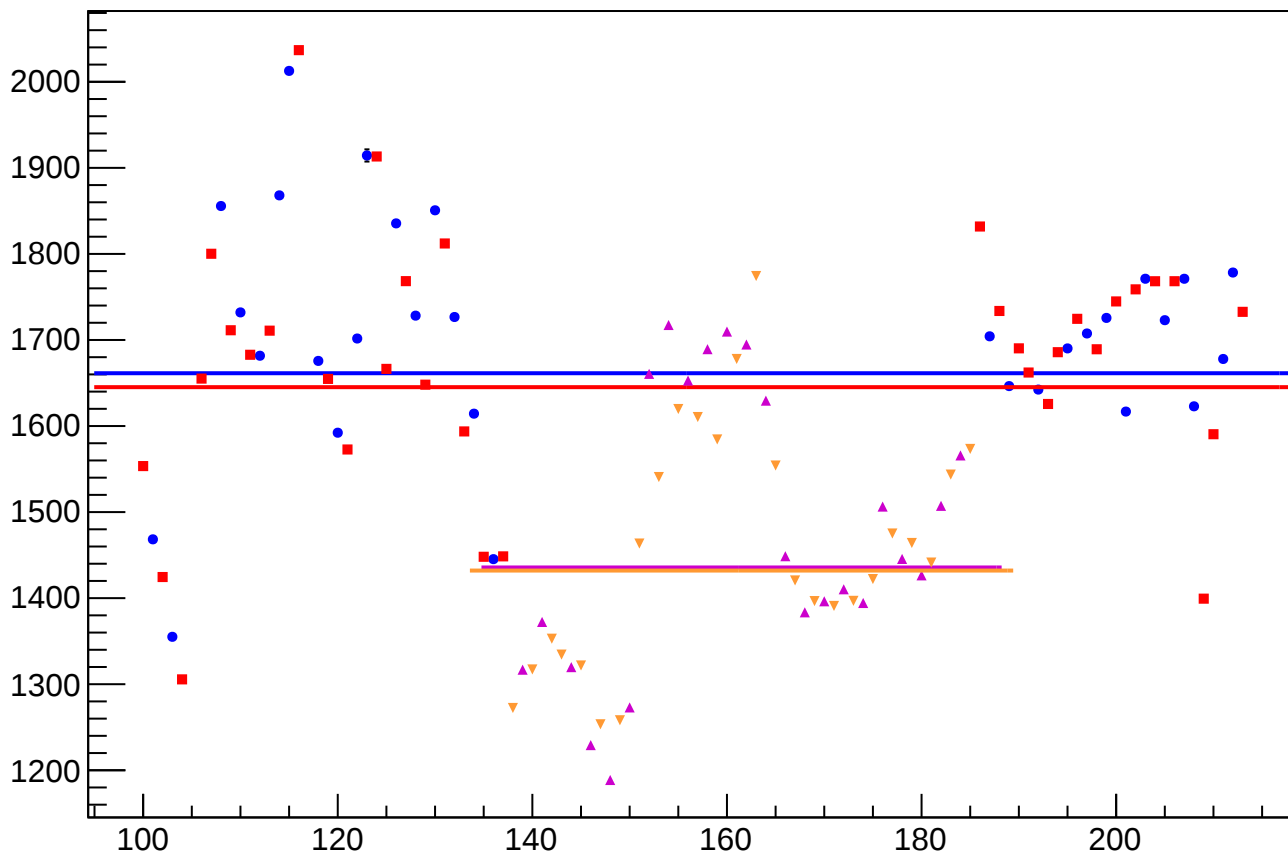
Left In: 12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

+ sign 18.920 $\pm$ 0.261 χ^2 /NDF: 11617.8/54

All: 18.170 $\pm$ 0.185 χ^2 /NDF: 50086.9/111

- sign 17.421 $\pm$ 0.261 χ^2 /NDF: 38452.7/56

diff_bpm0i02aY_rms vs Slug



Right In: 1661.363 $\pm$ 0.295 χ^2 /NDF: 187425.1/29

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

Right Out: 1645.172 $\pm$ 0.281 χ^2 /NDF: 258707.7/33

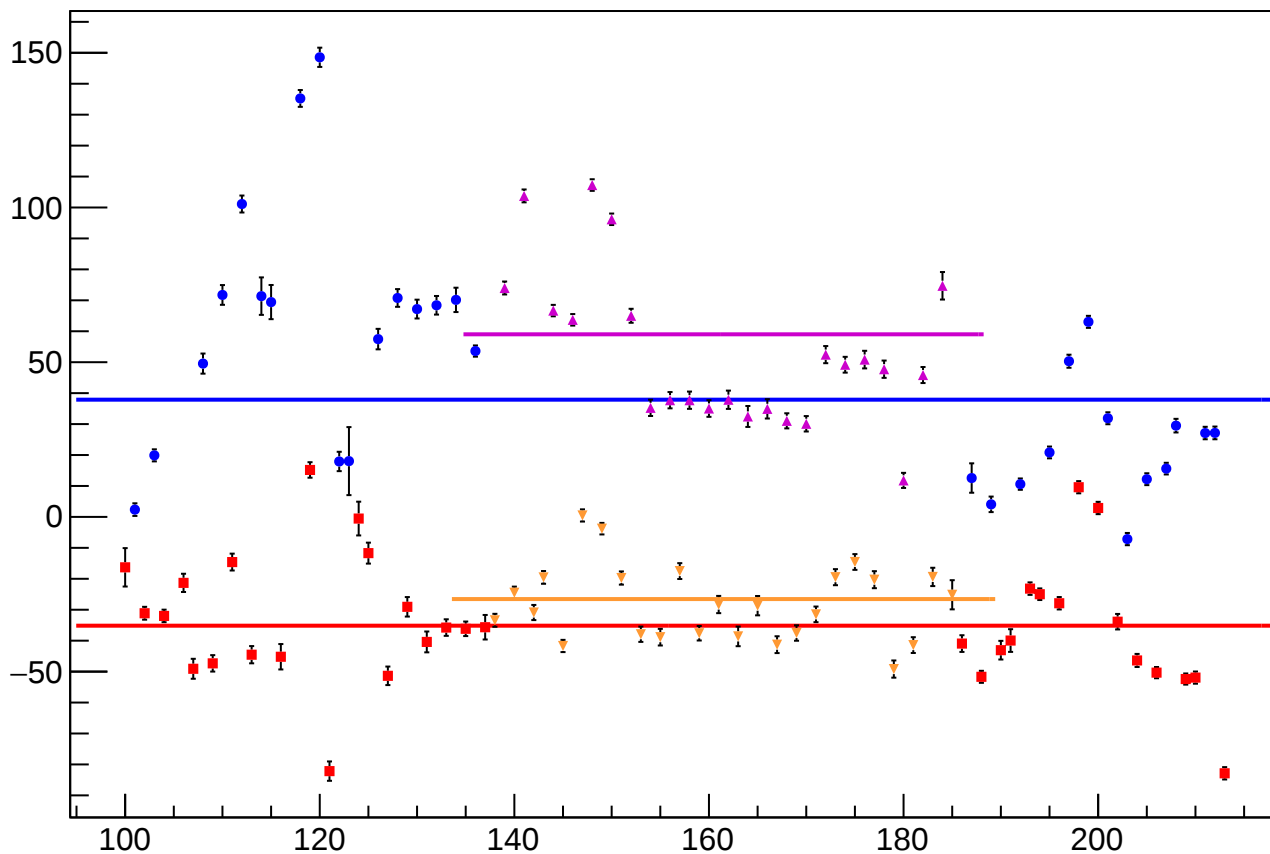
Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

+ sign 1522.007 $\pm$ 0.185 χ^2 /NDF: 851657.6/54

All: 1524.212 $\pm$ 0.131 χ^2 /NDF: 1847288.7/11

- sign 1526.415 $\pm$ 0.185 χ^2 /NDF: 995346.7/56

diff_bpm0i05X_mean vs Slug



Right In: 37.889 ± 0.444 χ^2/NDF : 5838.2/29

Left Out: -26.554 ± 0.488 χ^2/NDF : 717.5/24

Right Out: -35.158 ± 0.422 χ^2/NDF : 2780.5/33

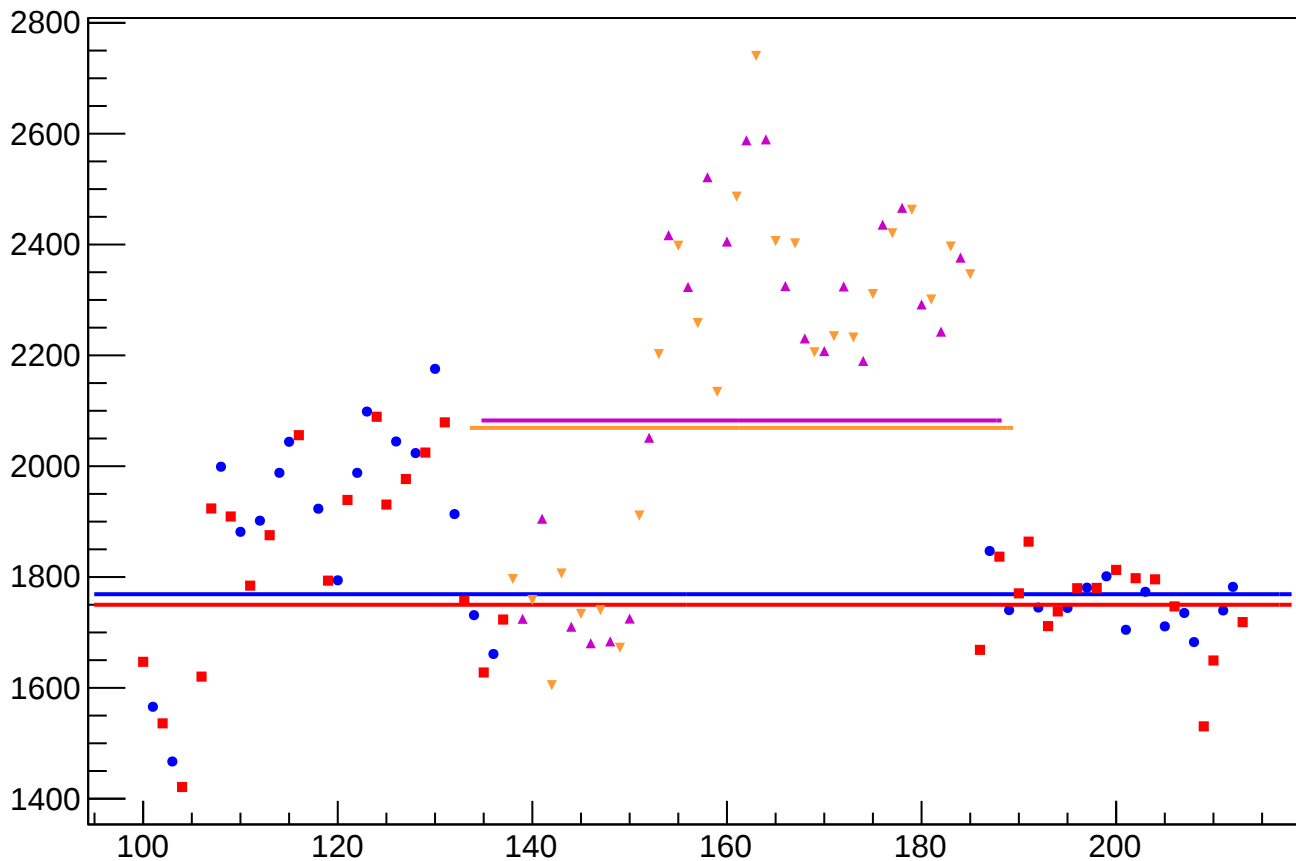
Left In: 59.014 ± 0.506 χ^2/NDF : 2783.8/22

+ sign 8.675 ± 0.328 χ^2/NDF : 16094.2/54

All: 6.014 ± 0.231 χ^2/NDF : 42200.6/111

- sign 3.423 ± 0.324 χ^2/NDF : 25976.9/56

diff_bpm0i05X_rms vs Slug



Right In: 1769.024 $\pm$ 0.314 χ^2 /NDF: 198329.8/29

Left Out: 2069.146 $\pm$ 0.345 χ^2 /NDF: 799037.9/24

Right Out: 1749.959 $\pm$ 0.298 χ^2 /NDF: 228094.3/33

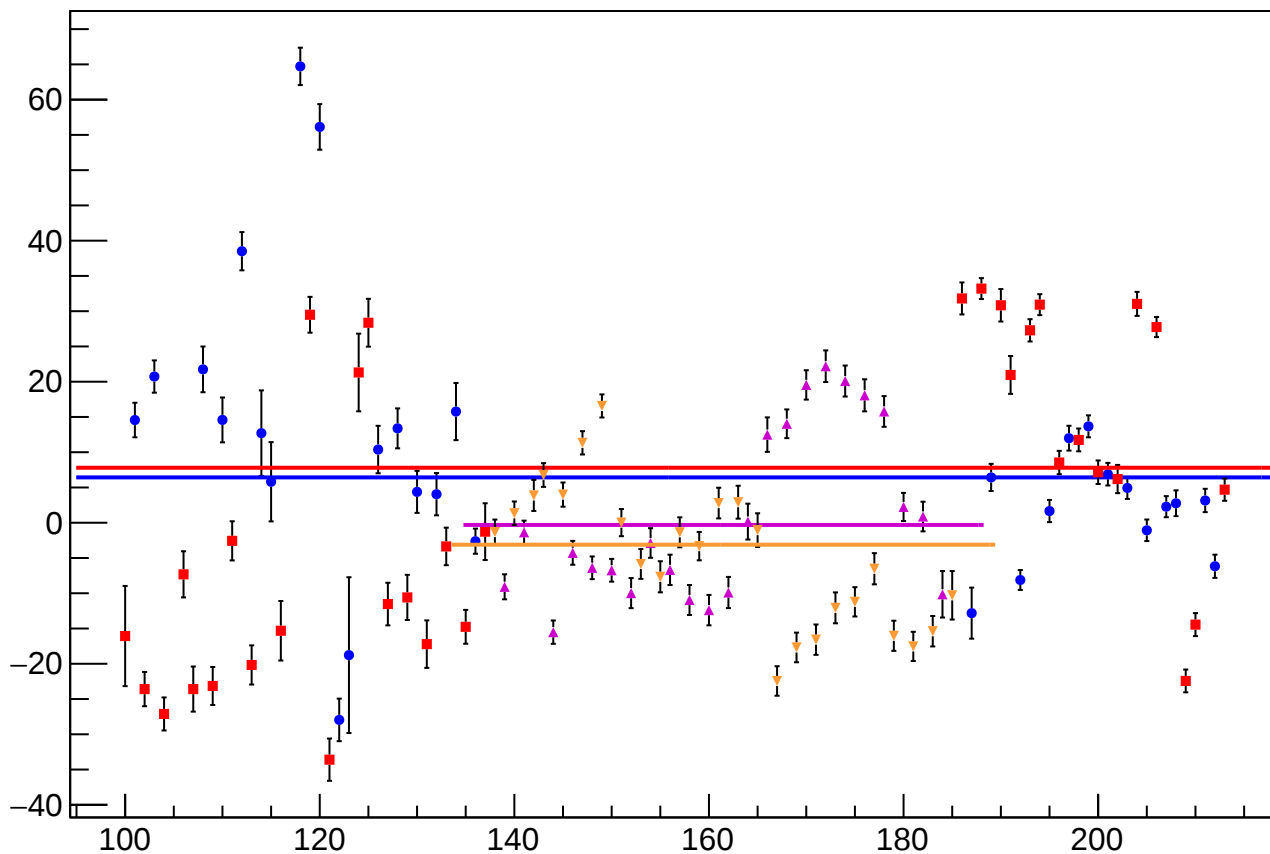
Left In: 2082.497 $\pm$ 0.358 χ^2 /NDF: 785304.0/22

+ sign 1905.080 $\pm$ 0.232 χ^2 /NDF: 1411132.7/54

All: 1895.512 $\pm$ 0.163 χ^2 /NDF: 2936945.2/11

- sign 1886.194 $\pm$ 0.229 χ^2 /NDF: 1522463.1/56

diff_bpm0i05Y_mean vs Slug



Right In: 6.431 ± 0.389 χ^2/NDF : 1388.8/29

Left Out: -3.112 ± 0.404 χ^2/NDF : 643.7/24

Right Out: 7.801 ± 0.371 χ^2/NDF : 3193.4/33

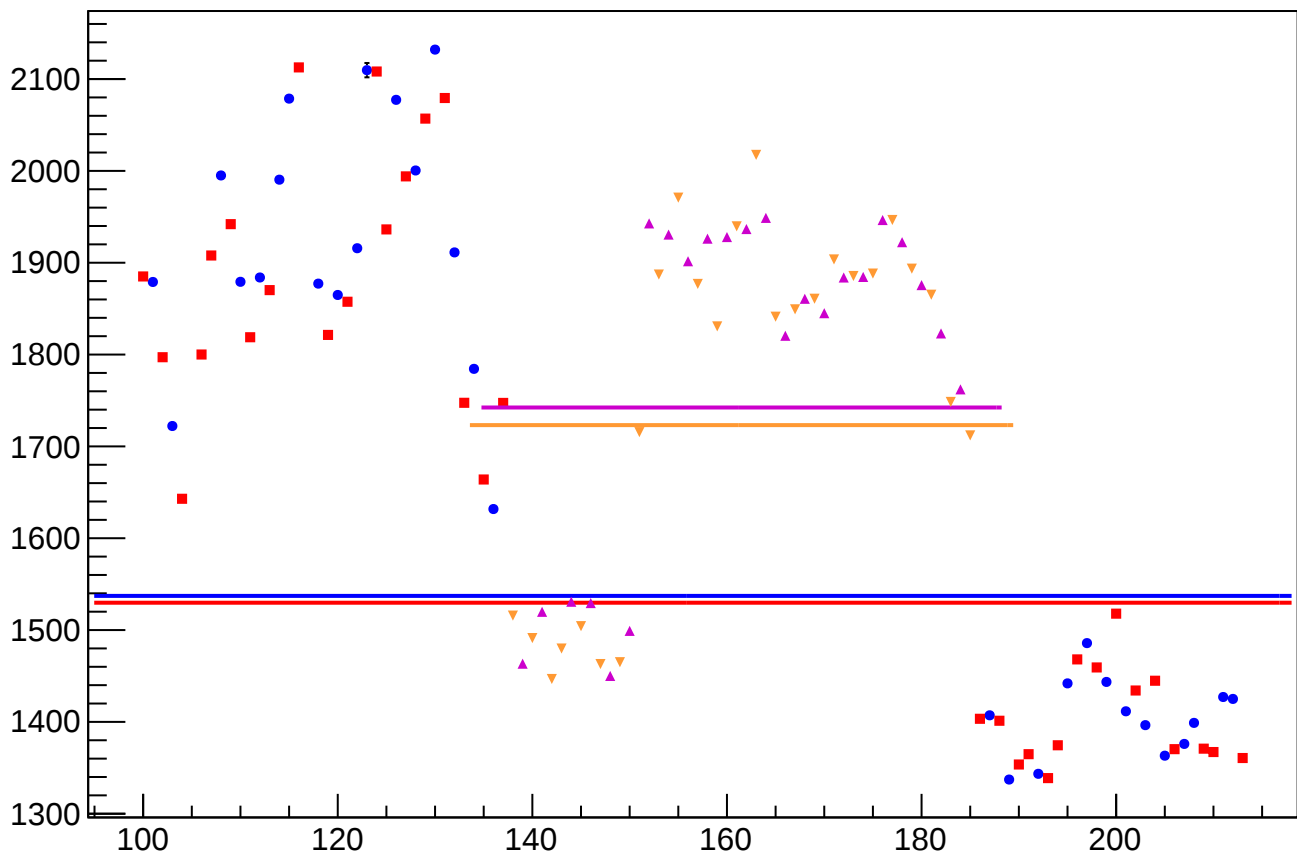
Left In: -0.312 ± 0.421 χ^2/NDF : 736.5/22

+ sign 1.844 ± 0.280 χ^2/NDF : 2322.0/54

All: 3.056 ± 0.198 χ^2/NDF : 6497.8/111

- sign 4.252 ± 0.278 χ^2/NDF : 4138.7/56

diff_bpm0i05Y_rms vs Slug



Right In: 1537.209+/-0.275 χ^2/NDF : 682193.1/29

Left Out: 1723.168+/-0.286 χ^2/NDF : 477441.1/24

Right Out: 1529.777+/-0.263 χ^2/NDF : 688249.2/33

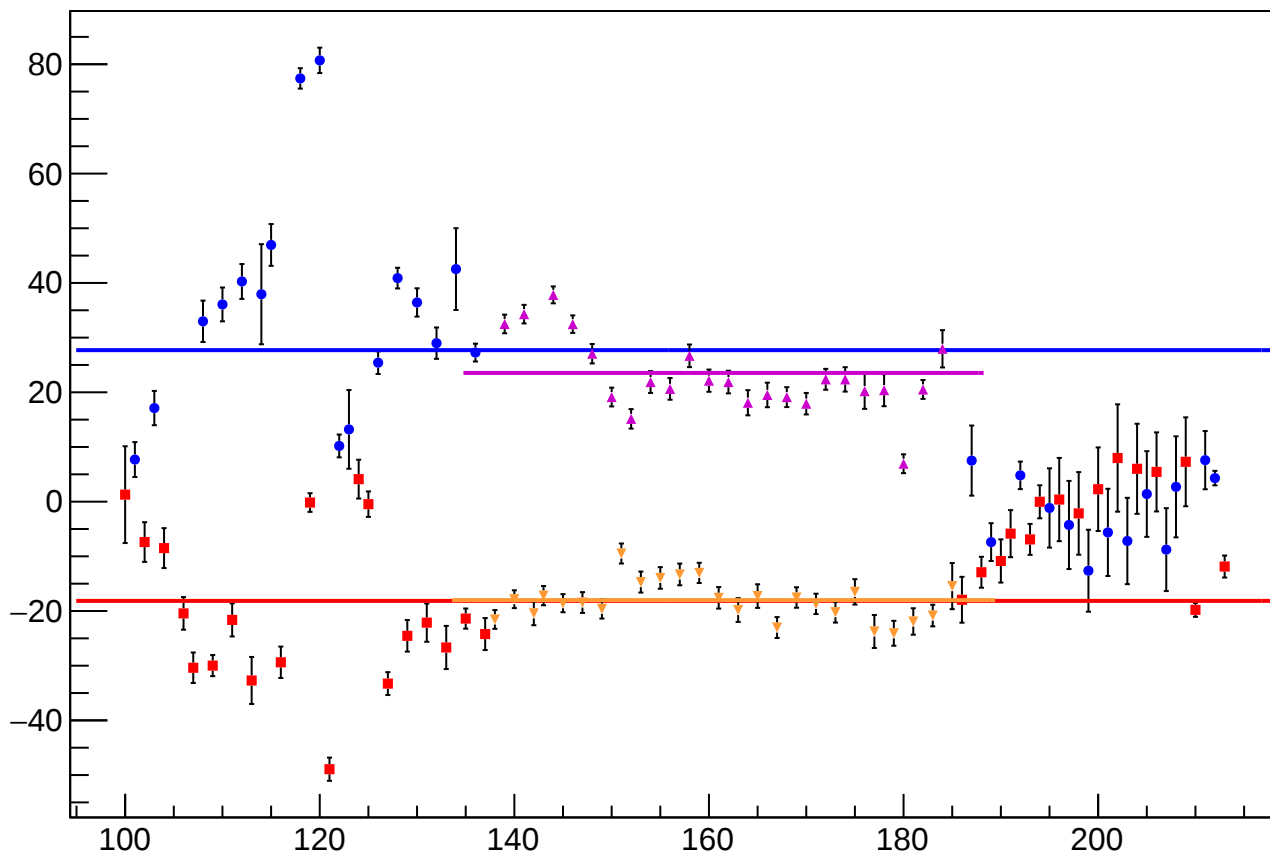
Left In: 1742.354+/-0.298 χ^2/NDF : 435841.5/22

+ sign 1626.599+/-0.198 χ^2/NDF : 1379424.6/54

All: 1624.670+/-0.140 χ^2/NDF : 2790454.1/11

- sign 1622.766+/-0.197 χ^2/NDF : 1410841.4/56

diff_bpm0i07X_mean vs Slug



Right In: 27.708 ± 0.538 $\chi^2/\text{NDF}: 2131.7/29$

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

Right Out: -18.148 ± 0.488 $\chi^2/\text{NDF}: 726.6/33$

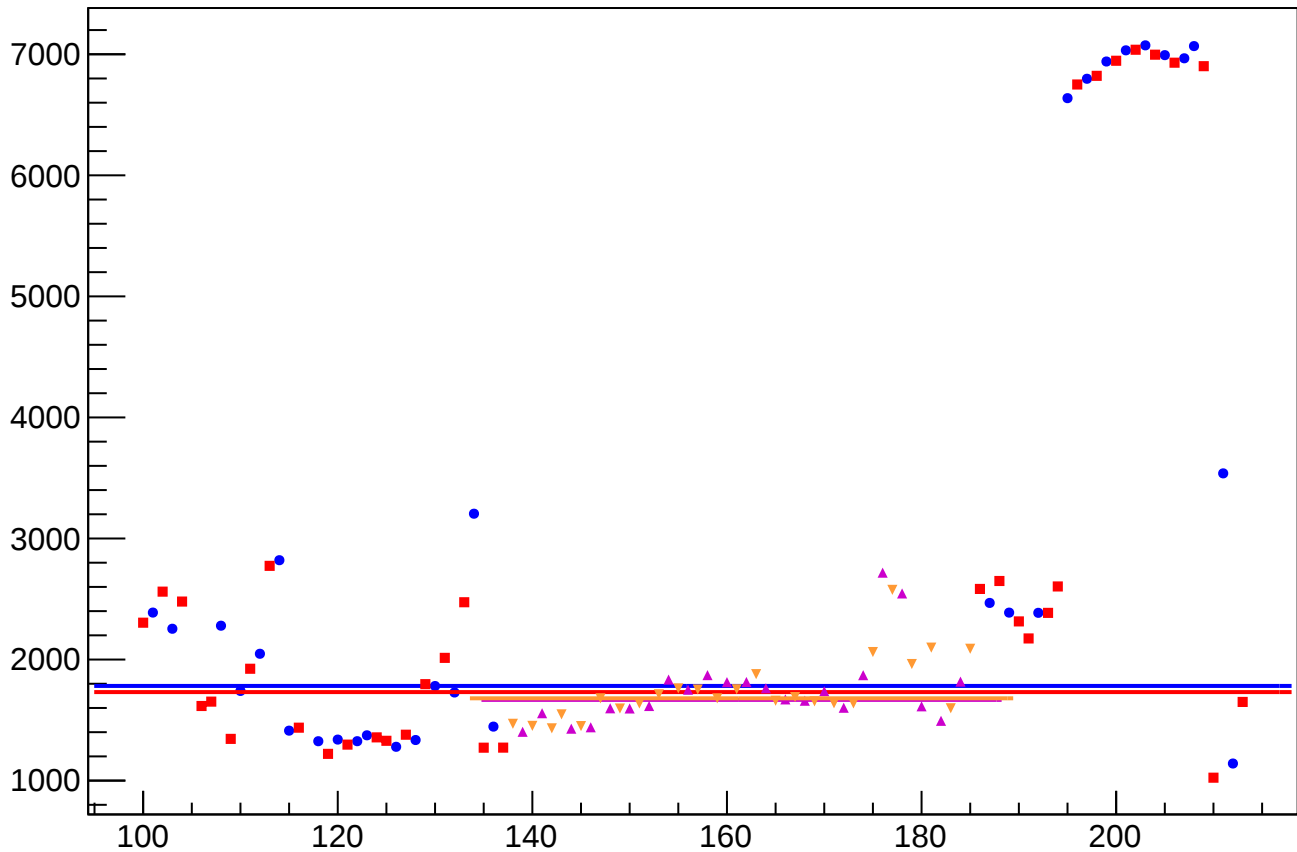
Left In: 23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

+ sign -1.913 ± 0.319 $\chi^2/\text{NDF}: 6881.1/54$

All: 2.398 ± 0.223 $\chi^2/\text{NDF}: 12625.5/111$

- sign 6.514 ± 0.312 $\chi^2/\text{NDF}: 5388.1/56$

diff_bpm0i07X_rms vs Slug



Right In: 1782.089+/-0.381 χ^2/NDF : 8638101.9/29

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1731.203+/-0.345 χ^2/NDF : 8288213.0/33

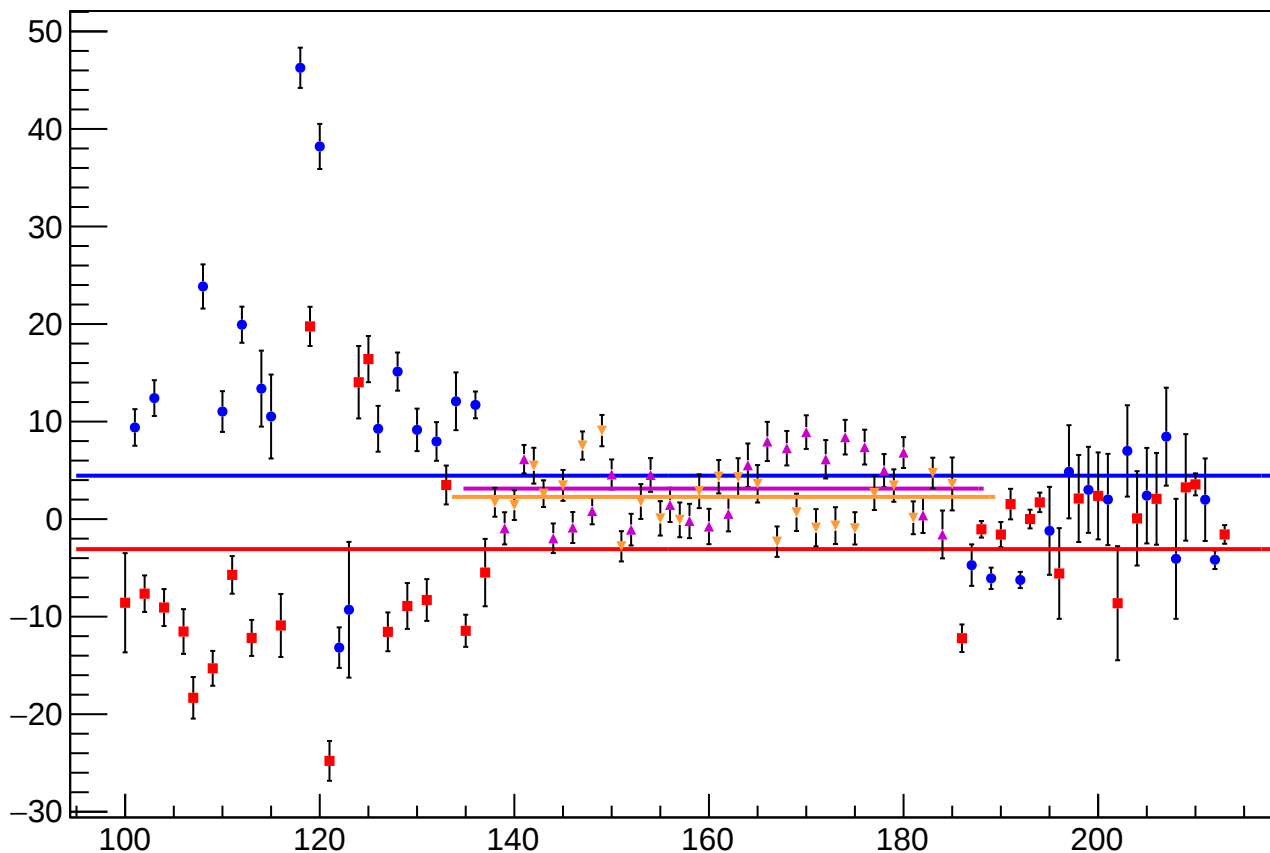
Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

+ sign 1715.822+/-0.226 χ^2/NDF : 9207701.8/54

All: 1704.207+/-0.158 χ^2/NDF : 18172658.0/100

- sign 1693.118+/-0.221 χ^2/NDF : 8959783.7/56

diff_bpm0i07Y_mean vs Slug



Right In: 4.455 ± 0.361 $\chi^2/\text{NDF}: 1326.8/29$

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

Right Out: -3.076 ± 0.298 $\chi^2/\text{NDF}: 694.3/33$

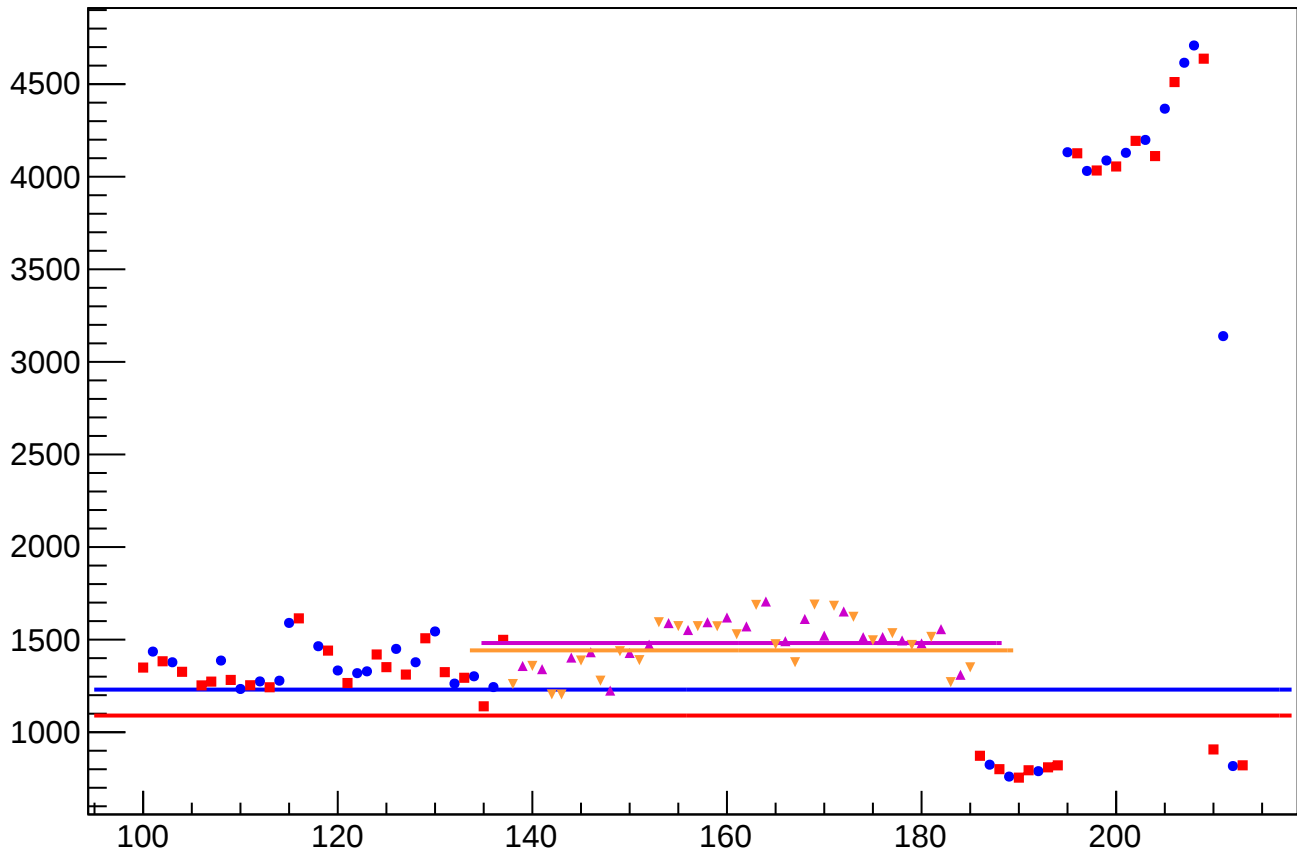
Left In: 3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

+ sign 3.296 ± 0.247 $\chi^2/\text{NDF}: 1421.6/54$

All: 1.238 ± 0.168 $\chi^2/\text{NDF}: 2526.0/111$

- sign -0.532 ± 0.229 $\chi^2/\text{NDF}: 975.2/56$

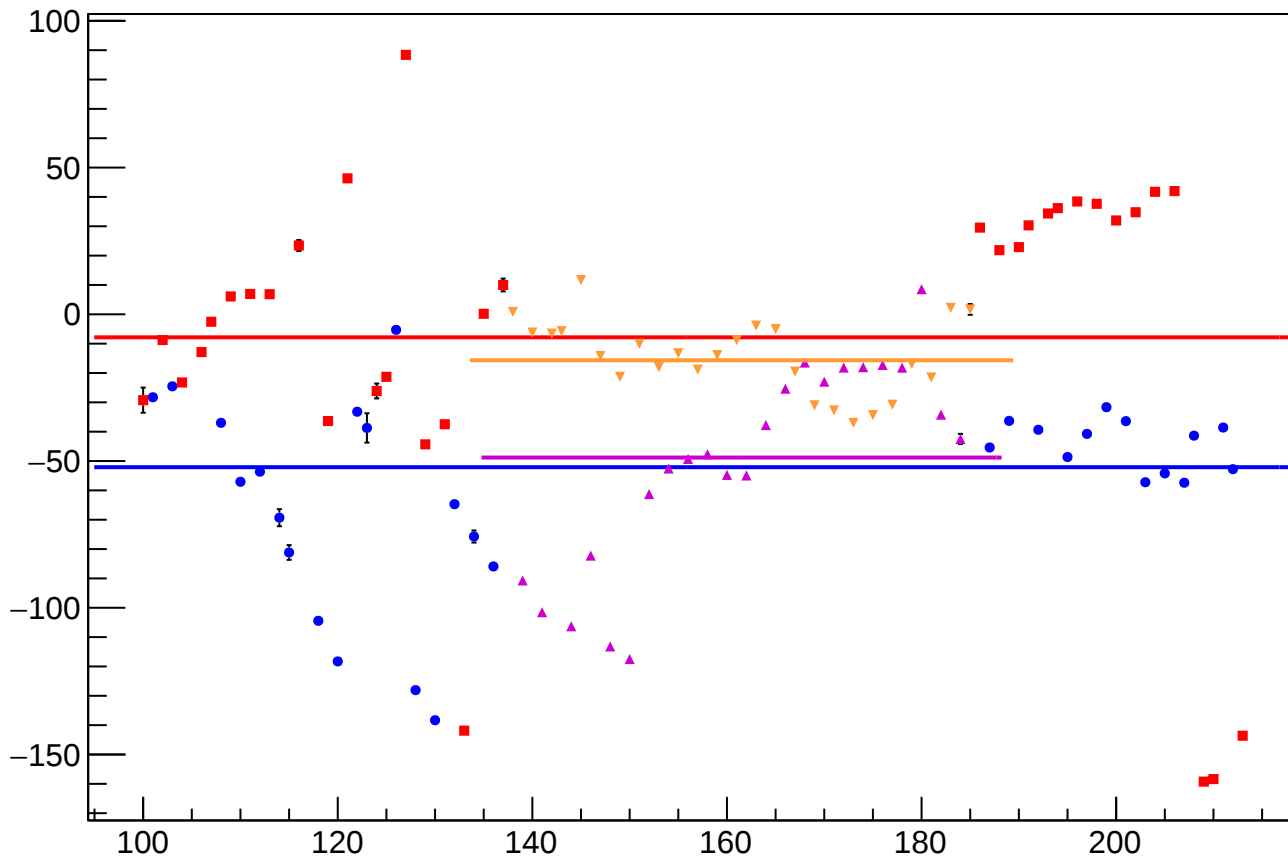
diff_bpm0i07Y_rms vs Slug



Right In: 1230.139+/-0.256 χ^2/NDF : 8252991.6/29
 Left Out: 1441.951+/-0.239 χ^2/NDF : 370617.4/24
 Right Out: 1090.018+/-0.211 χ^2/NDF : 7360506.9/33
 Left In: 1481.695+/-0.253 χ^2/NDF : 208470.6/22

+ sign 1343.061+/-0.175 χ^2/NDF : 8989768.8/54
 All: 1293.352+/-0.119 χ^2/NDF : 18124711.1/100
 - sign 1250.613+/-0.162 χ^2/NDF : 8984255.4/56

diff_bpm1i02X_mean vs Slug



Right In: -52.095 ± 0.181 χ^2/NDF : 17630.7/29

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

Right Out: -7.847 ± 0.174 χ^2/NDF : 171886.8/33

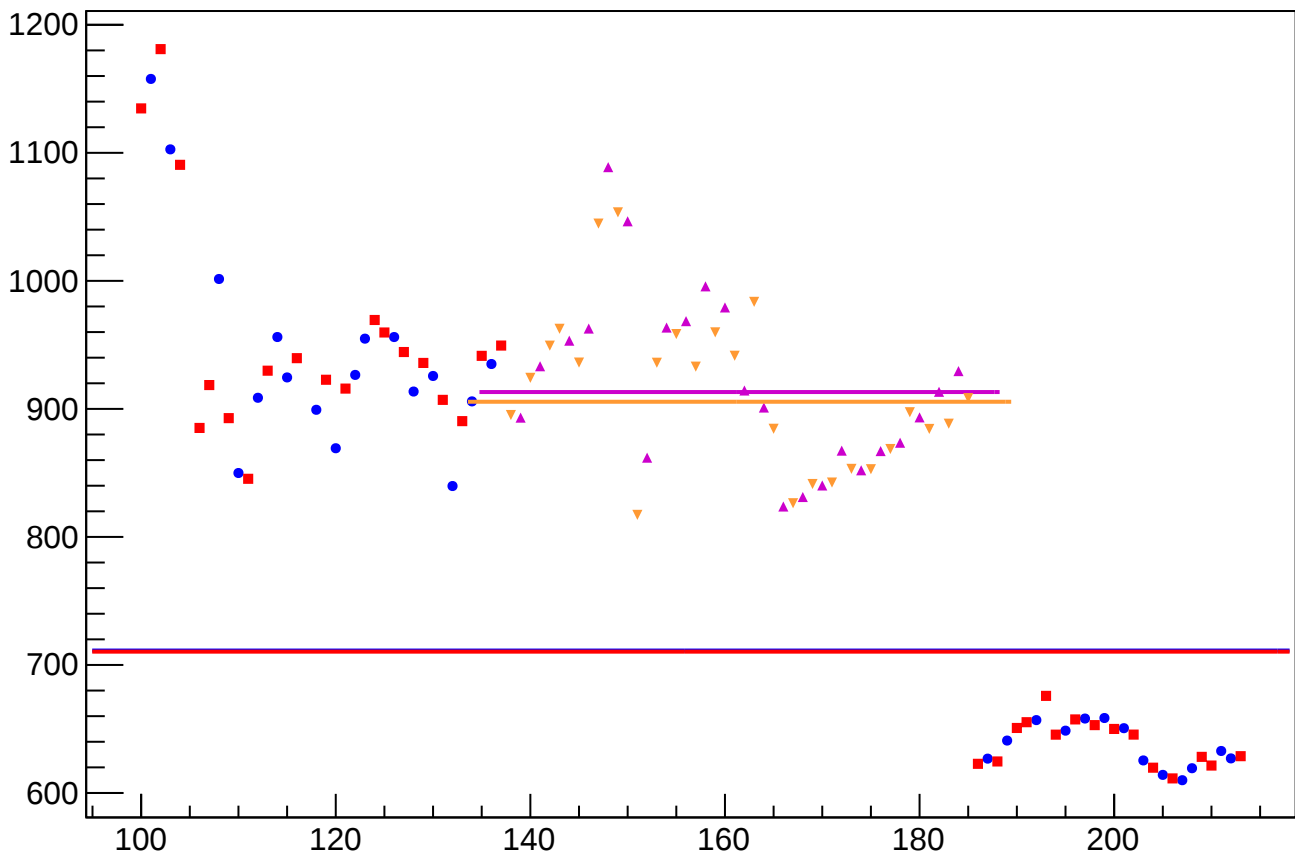
Left In: -48.812 ± 0.220 χ^2/NDF : 25260.8/22

+ sign -36.676 ± 0.138 χ^2/NDF : 38256.8/54

All: -30.067 ± 0.097 χ^2/NDF : 261350.5/111

- sign -23.585 ± 0.136 χ^2/NDF : 218524.5/56

diff_bpm1i02X_rms vs Slug



Right In: 711.256 $\pm$ 0.128 χ^2 /NDF: 1146984.2/29

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

Right Out: 710.395 $\pm$ 0.123 χ^2 /NDF: 1216138.7/33

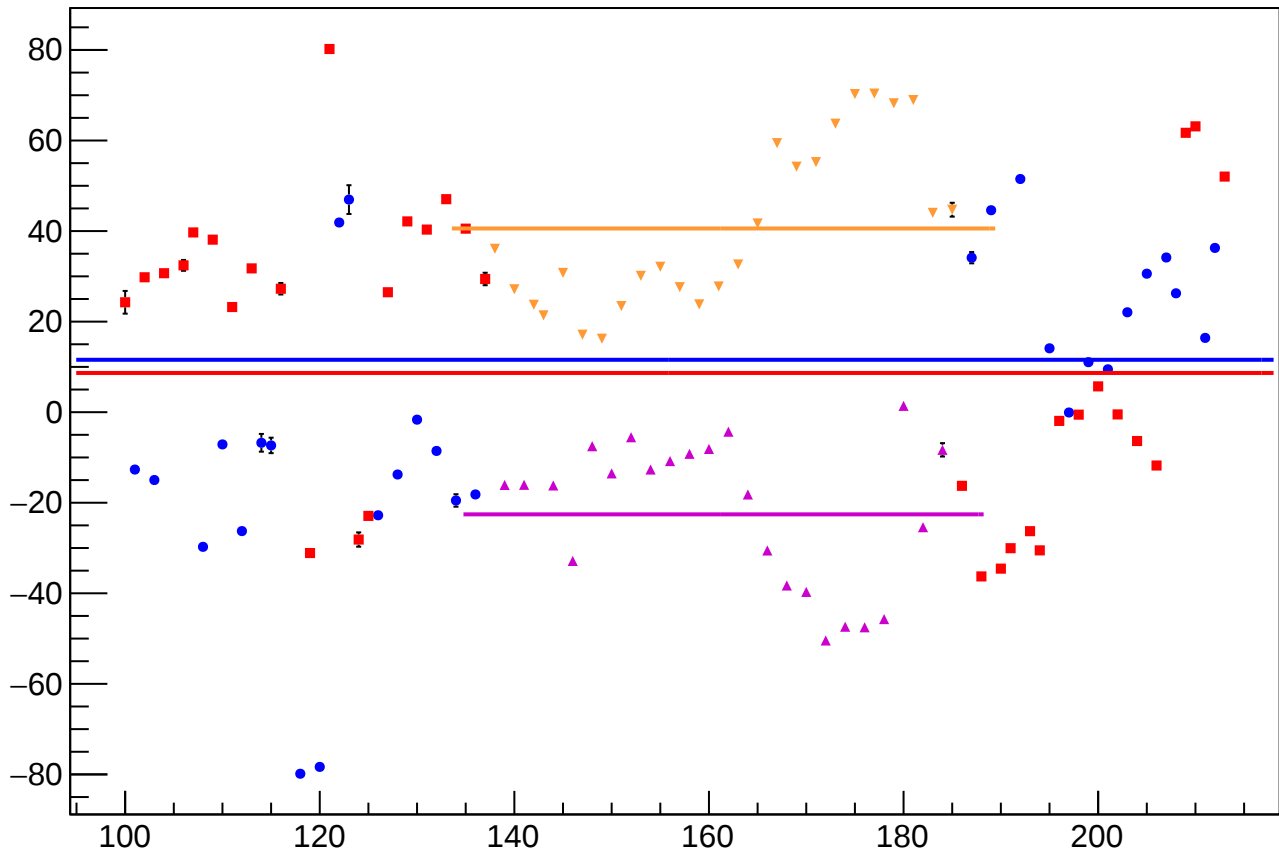
Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

+ sign 793.506 $\pm$ 0.097 χ^2 /NDF: 2282637.2/54

All: 790.874 $\pm$ 0.068 χ^2 /NDF: 4722166.7/111

- sign 788.292 $\pm$ 0.096 χ^2 /NDF: 2438079.8/56

diff_bpm1i02Y_mean vs Slug



Right In: 11.573 $\pm$ 0.134 χ^2 /NDF: 43798.3/29

Left Out: 40.573 $\pm$ 0.168 χ^2 /NDF: 12079.0/24

Right Out: 8.660 $\pm$ 0.128 χ^2 /NDF: 68136.5/33

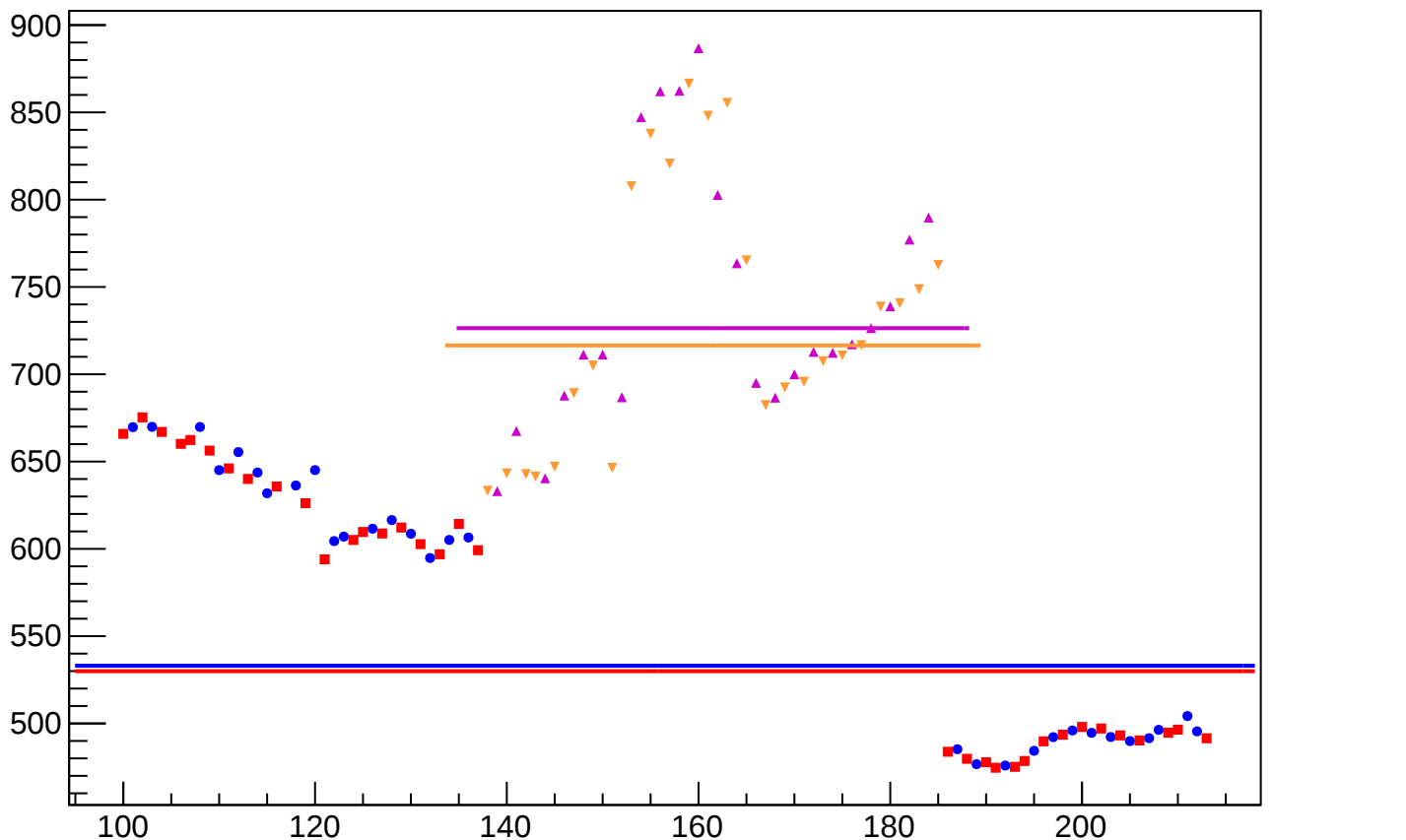
Left In: -22.565 $\pm$ 0.175 χ^2 /NDF: 8167.7/22

+ sign 22.898 $\pm$ 0.105 χ^2 /NDF: 74073.0/54

All: 10.168 $\pm$ 0.074 χ^2 /NDF: 200120.4/111

- sign -2.225 $\pm$ 0.103 χ^2 /NDF: 96976.9/56

diff_bpm1i02Y_rms vs Slug



Right In: 533.079 $\pm$ 0.095 χ^2/NDF : 484189.4/29

Left Out: 716.515 $\pm$ 0.119 χ^2/NDF : 342740.2/24

Right Out: 529.946 $\pm$ 0.091 χ^2/NDF : 535545.4/33

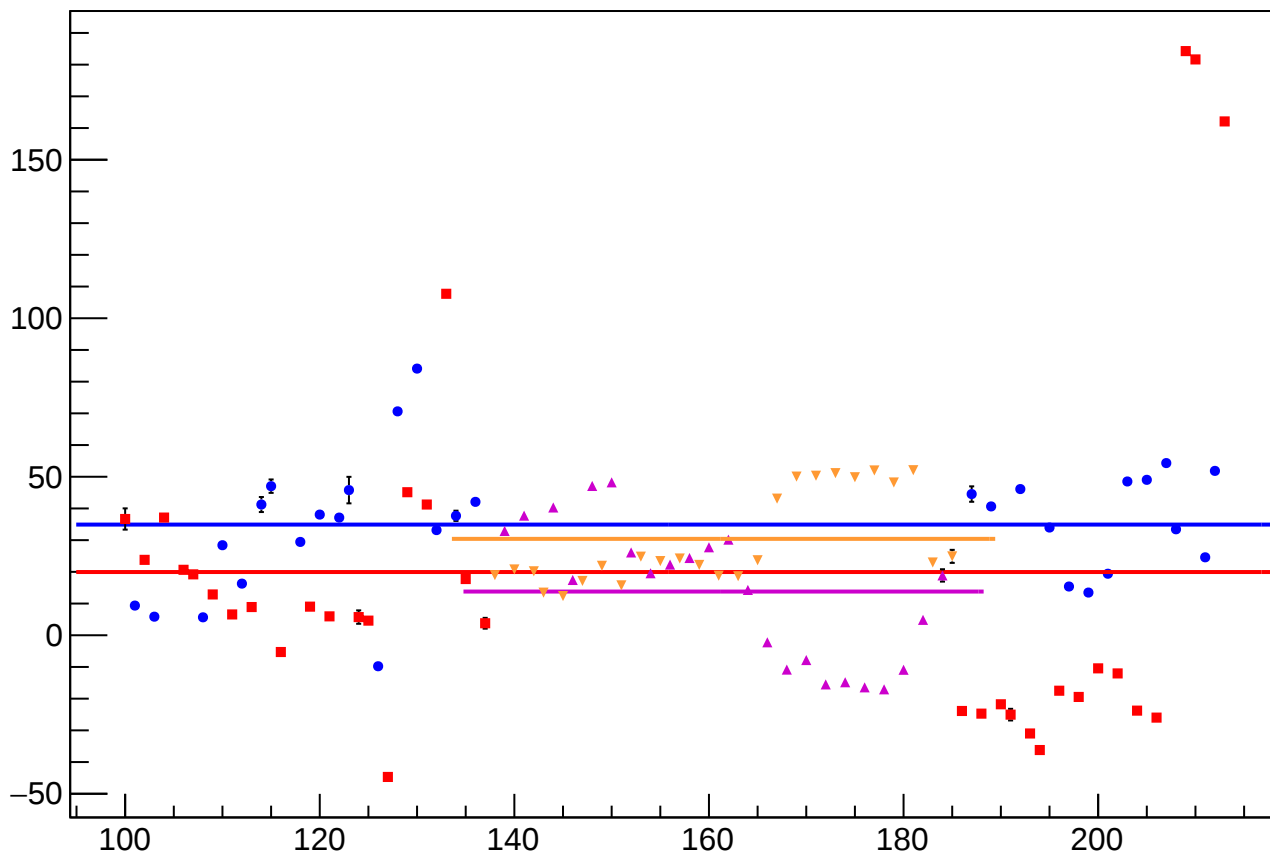
Left In: 726.390 $\pm$ 0.124 χ^2/NDF : 289788.8/22

+ sign 604.712 $\pm$ 0.074 χ^2/NDF : 2282996.7/54

All: 601.526 $\pm$ 0.052 χ^2/NDF : 4748367.8/111

- sign 598.424 $\pm$ 0.073 χ^2/NDF : 2461729.0/56

diff_bpm1i04X_mean vs Slug



Right In: 34.912 $\pm$ 0.215 χ^2 /NDF: 8610.9/29

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF: 3808.0/24

Right Out: 19.945 $\pm$ 0.207 χ^2 /NDF: 89192.8/33

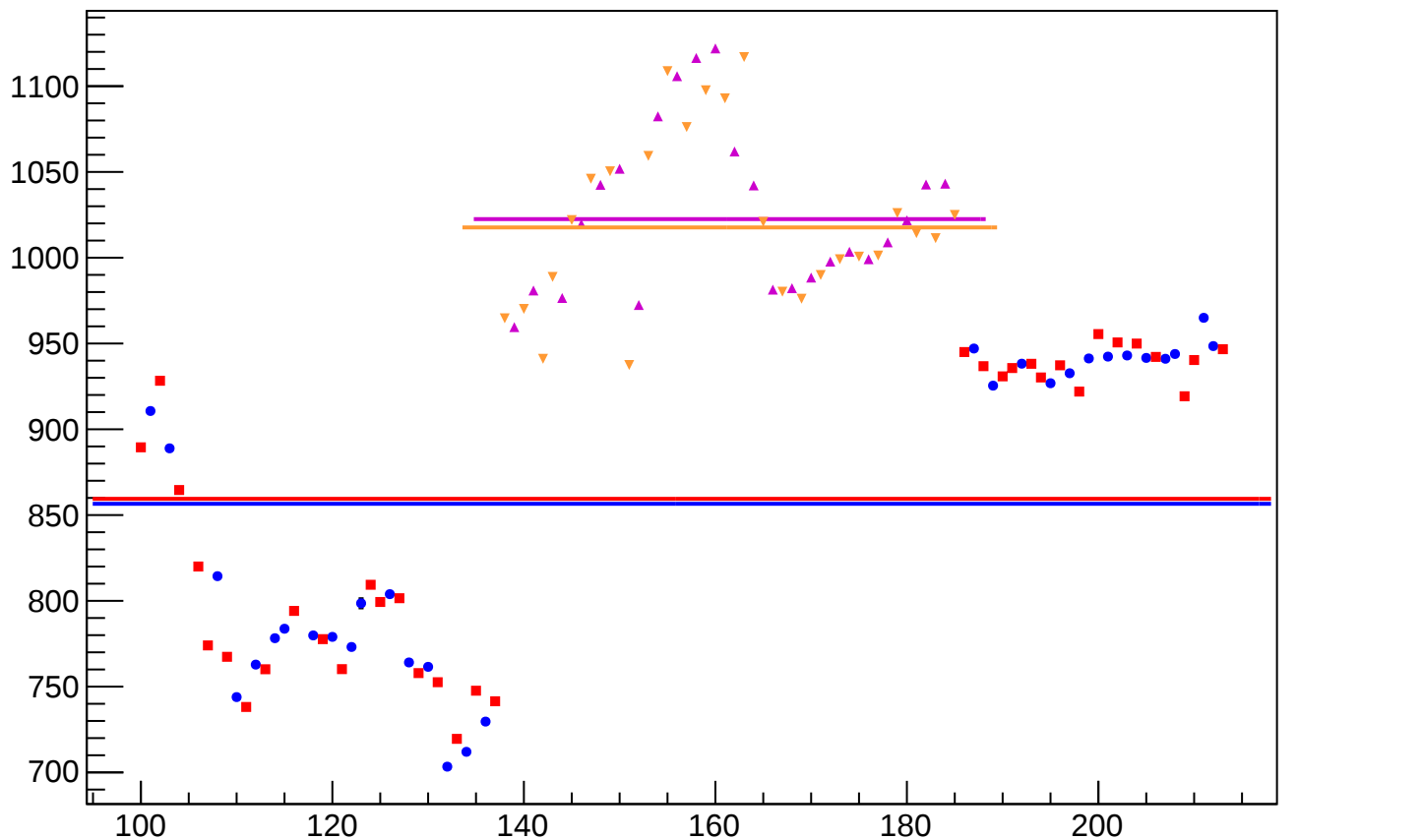
Left In: 13.787 $\pm$ 0.246 χ^2 /NDF: 7979.7/22

+ sign 32.878 $\pm$ 0.160 χ^2 /NDF: 12616.3/54

All: 25.081 $\pm$ 0.112 χ^2 /NDF: 114900.6/111

- sign 17.384 $\pm$ 0.159 χ^2 /NDF: 97539.1/56

diff_bpm1i04X_rms vs Slug



Right In: 856.570 ± 0.152 $\chi^2/\text{NDF}: 359159.5/29$

Left Out: 1017.653 ± 0.168 $\chi^2/\text{NDF}: 83612.5/24$

Right Out: 859.465 ± 0.147 $\chi^2/\text{NDF}: 348269.7/33$

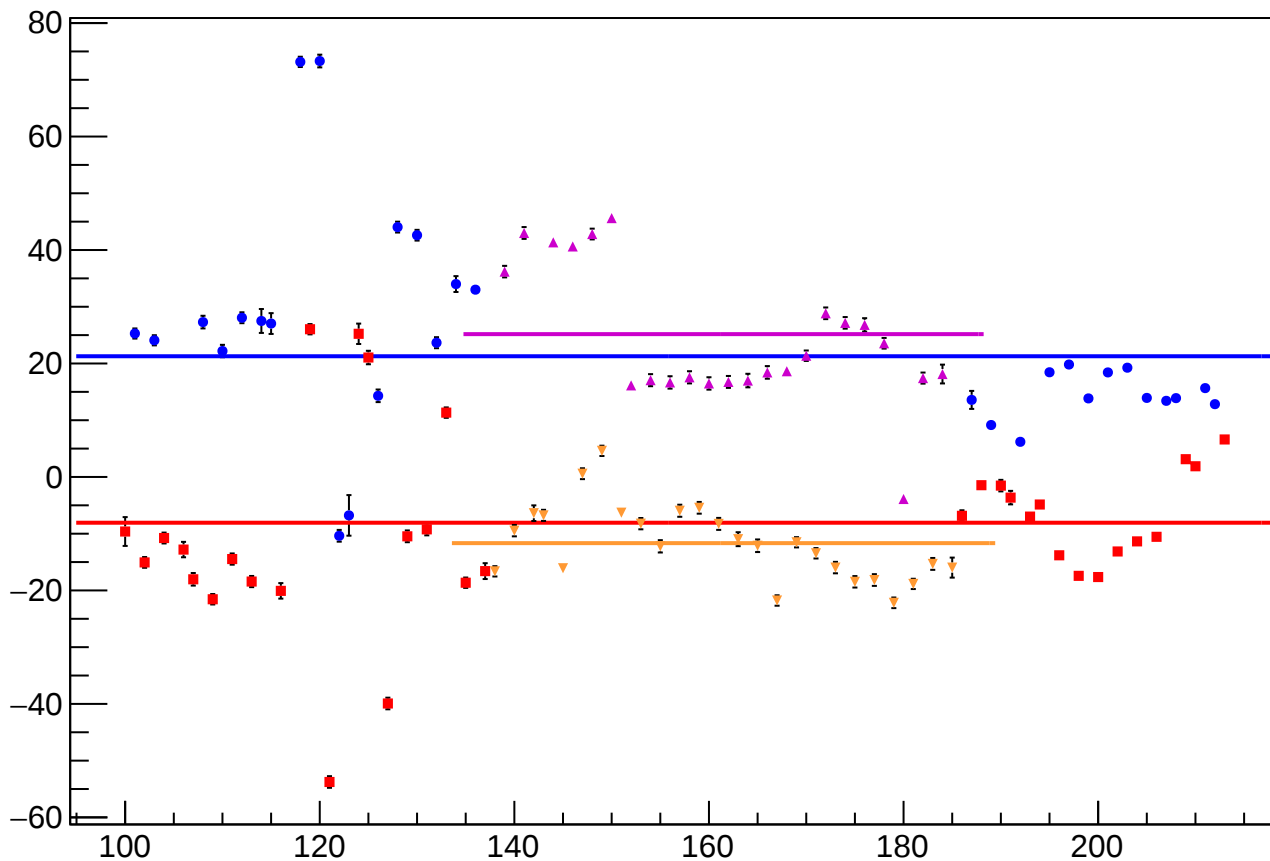
Left In: 1022.511 ± 0.174 $\chi^2/\text{NDF}: 69635.5/22$

+ sign 929.334 ± 0.113 $\chi^2/\text{NDF}: 947640.5/54$

All: 928.294 ± 0.080 $\chi^2/\text{NDF}: 1879655.9/111$

- sign 927.267 ± 0.112 $\chi^2/\text{NDF}: 931846.5/56$

diff_bpm1i04Y_mean vs Slug



Right In: 21.276 $\pm$ 0.154 χ^2 /NDF: 9642.0/29

Left Out: -11.664 $\pm$ 0.200 χ^2 /NDF: 1147.4/24

Right Out: -8.066 $\pm$ 0.147 χ^2 /NDF: 8432.2/33

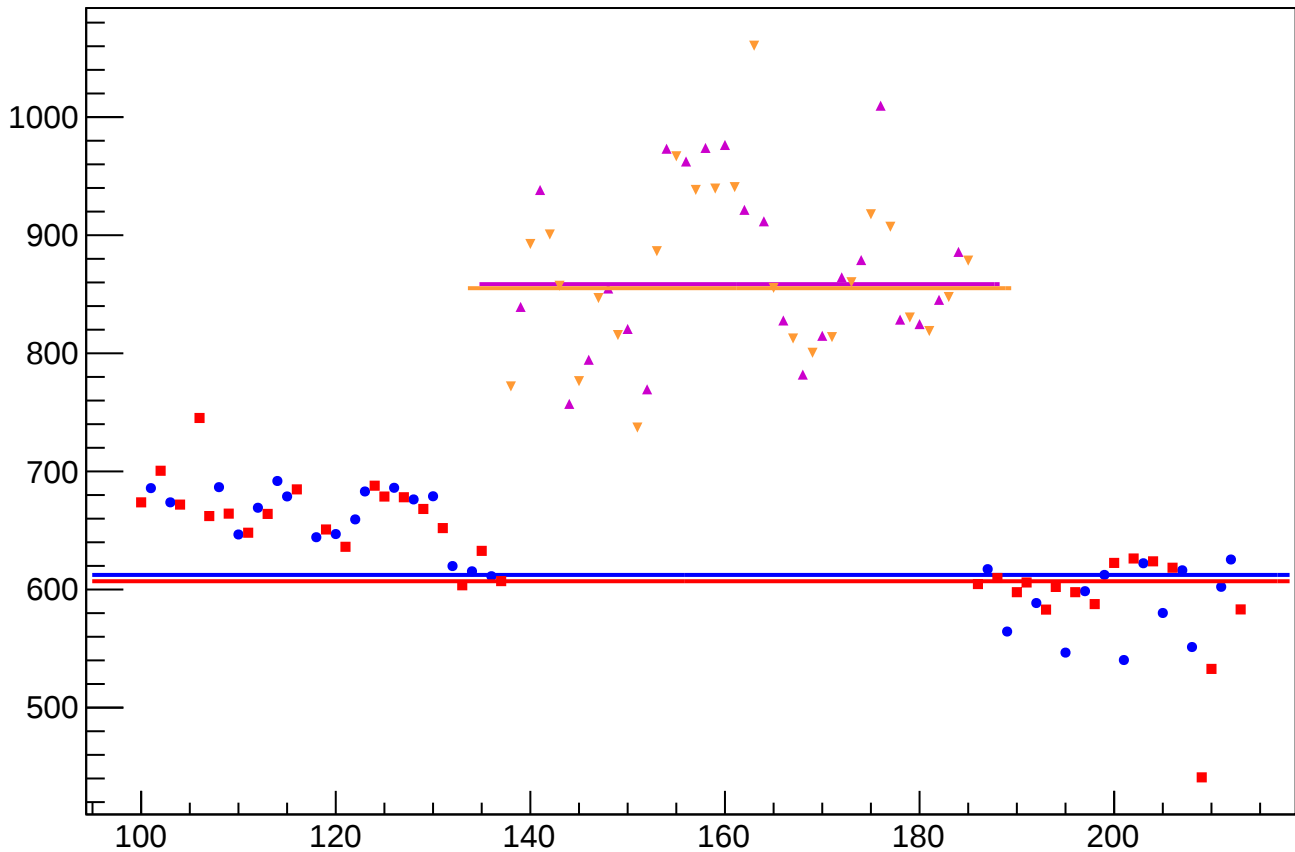
Left In: 25.174 $\pm$ 0.207 χ^2 /NDF: 3747.1/22

+ sign 9.035 $\pm$ 0.122 χ^2 /NDF: 27786.0/54

All: 5.973 $\pm$ 0.086 χ^2 /NDF: 58319.0/111

- sign 3.025 $\pm$ 0.120 χ^2 /NDF: 29298.7/56

diff_bpm1i04Y_rms vs Slug



Right In: 612.363 $\pm$ 0.109 χ^2 /NDF: 164898.2/29

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF: 233746.7/24

Right Out: 607.011 $\pm$ 0.104 χ^2 /NDF: 362021.5/33

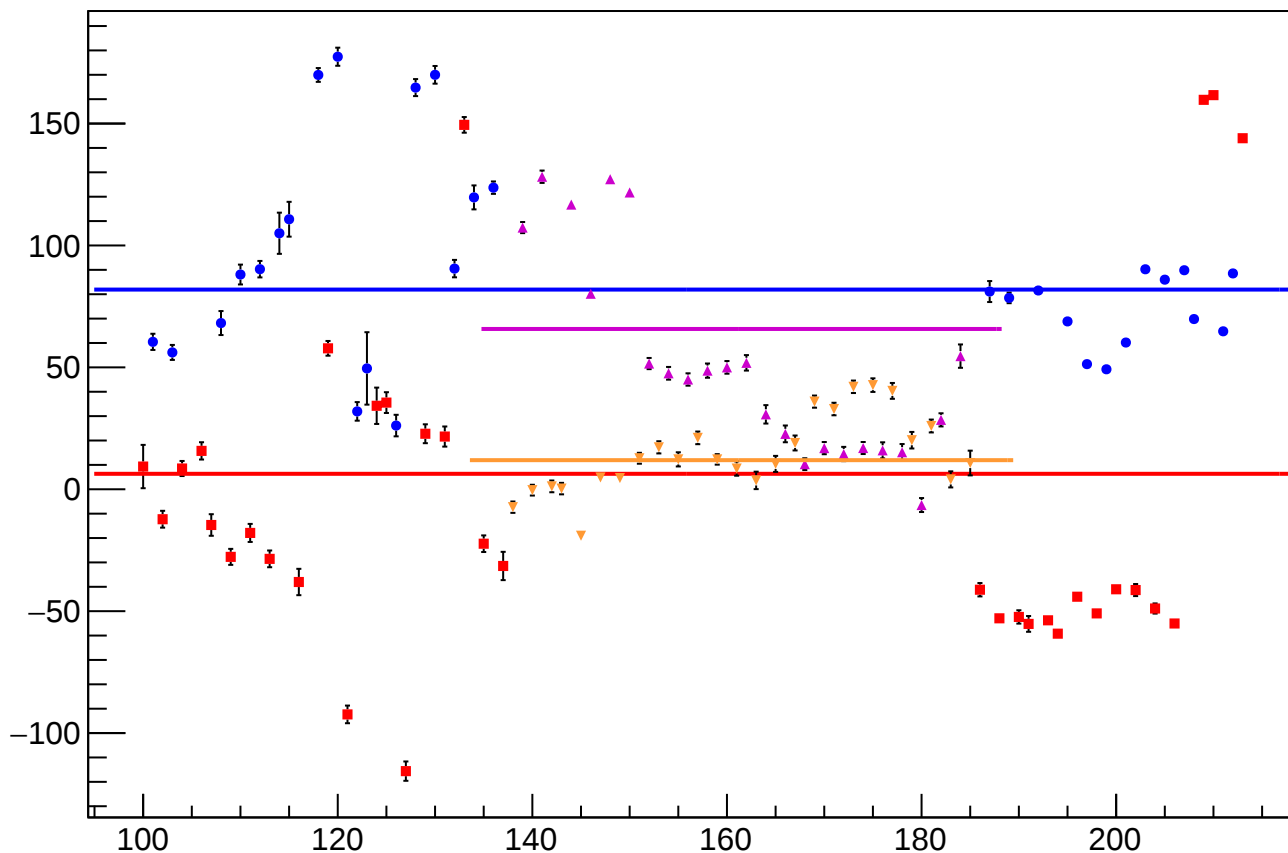
Left In: 858.563 $\pm$ 0.147 χ^2 /NDF: 239019.8/22

+ sign 702.582 $\pm$ 0.086 χ^2 /NDF: 2245112.4/54

All: 696.653 $\pm$ 0.060 χ^2 /NDF: 4816367.1/111

- sign 690.946 $\pm$ 0.085 χ^2 /NDF: 2561998.9/56

diff_bpm1i06X_mean vs Slug



Right In: 81.907 ± 0.466 χ^2/NDF : 4534.1/29

Left Out: 11.938 ± 0.505 χ^2/NDF : 976.6/24

Right Out: 6.344 ± 0.437 χ^2/NDF : 38944.8/33

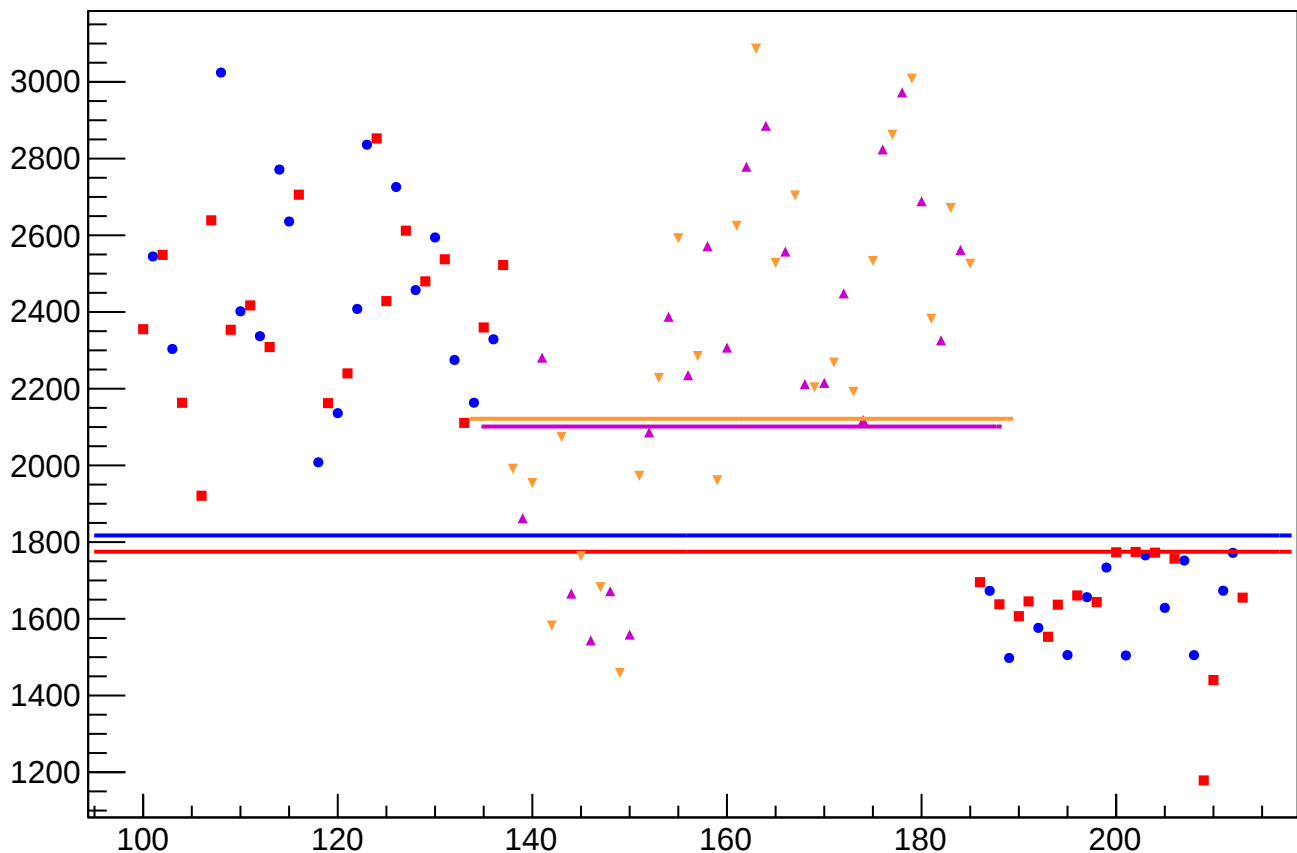
Left In: 65.752 ± 0.518 χ^2/NDF : 7335.8/22

+ sign 49.783 ± 0.342 χ^2/NDF : 15880.9/54

All: 40.190 ± 0.239 χ^2/NDF : 71382.4/111

- sign 31.065 ± 0.334 χ^2/NDF : 53969.8/56

diff_bpm1i06X_rms vs Slug



Right In: 1817.338 $\pm$ 0.329 χ^2 /NDF: 1180077.5/29

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 1774.885 $\pm$ 0.309 χ^2 /NDF: 1477433.2/33

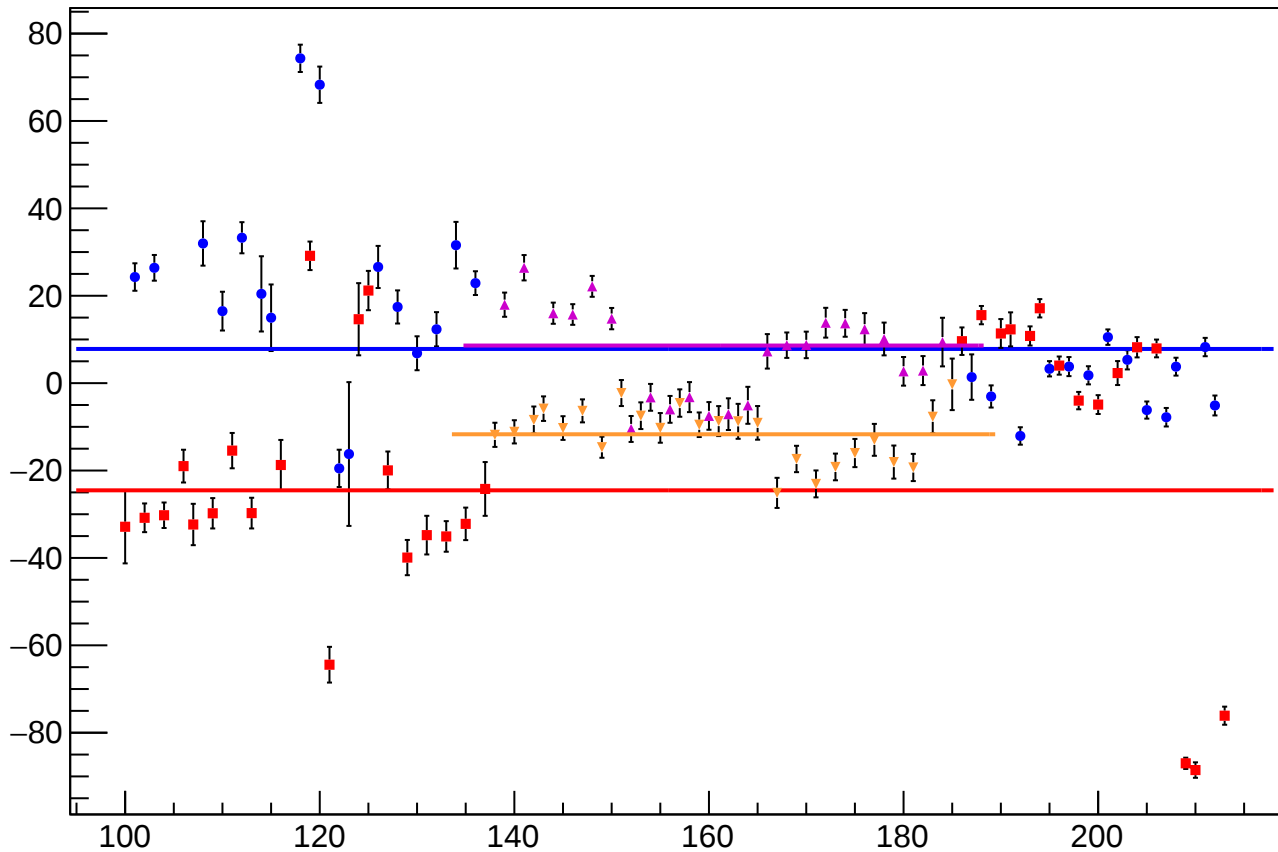
Left In: 2101.325 $\pm$ 0.366 χ^2 /NDF:1360518.3/22

+ sign 1957.014 $\pm$ 0.242 χ^2 /NDF: 2960033.3/54

All: 1933.291 $\pm$ 0.169 χ^2 /NDF: 6281054.9/11

- sign 1910.725 $\pm$ 0.236 χ^2 /NDF: 3302287.9/56

diff_bpm1i06Y_mean vs Slug



Right In: 7.826 ± 0.505 χ^2/NDF : 1211.8/29

Left Out: -11.700 ± 0.625 χ^2/NDF : 85.0/24

Right Out: -24.530 ± 0.472 χ^2/NDF : 7105.2/33

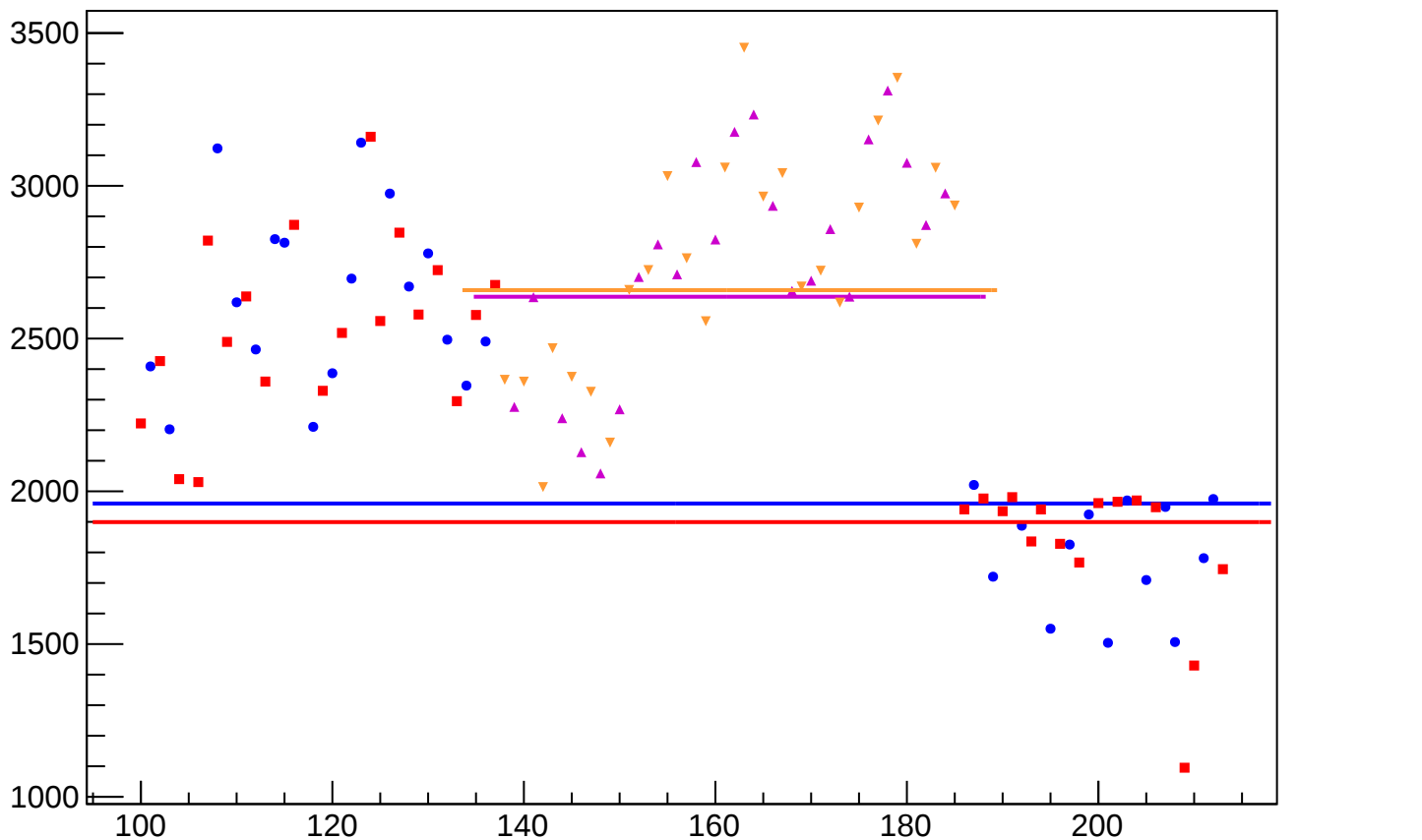
Left In: 8.606 ± 0.642 χ^2/NDF : 264.2/22

+ sign 0.128 ± 0.393 χ^2/NDF : 1887.2/54

All: -6.609 ± 0.273 χ^2/NDF : 11557.4/111

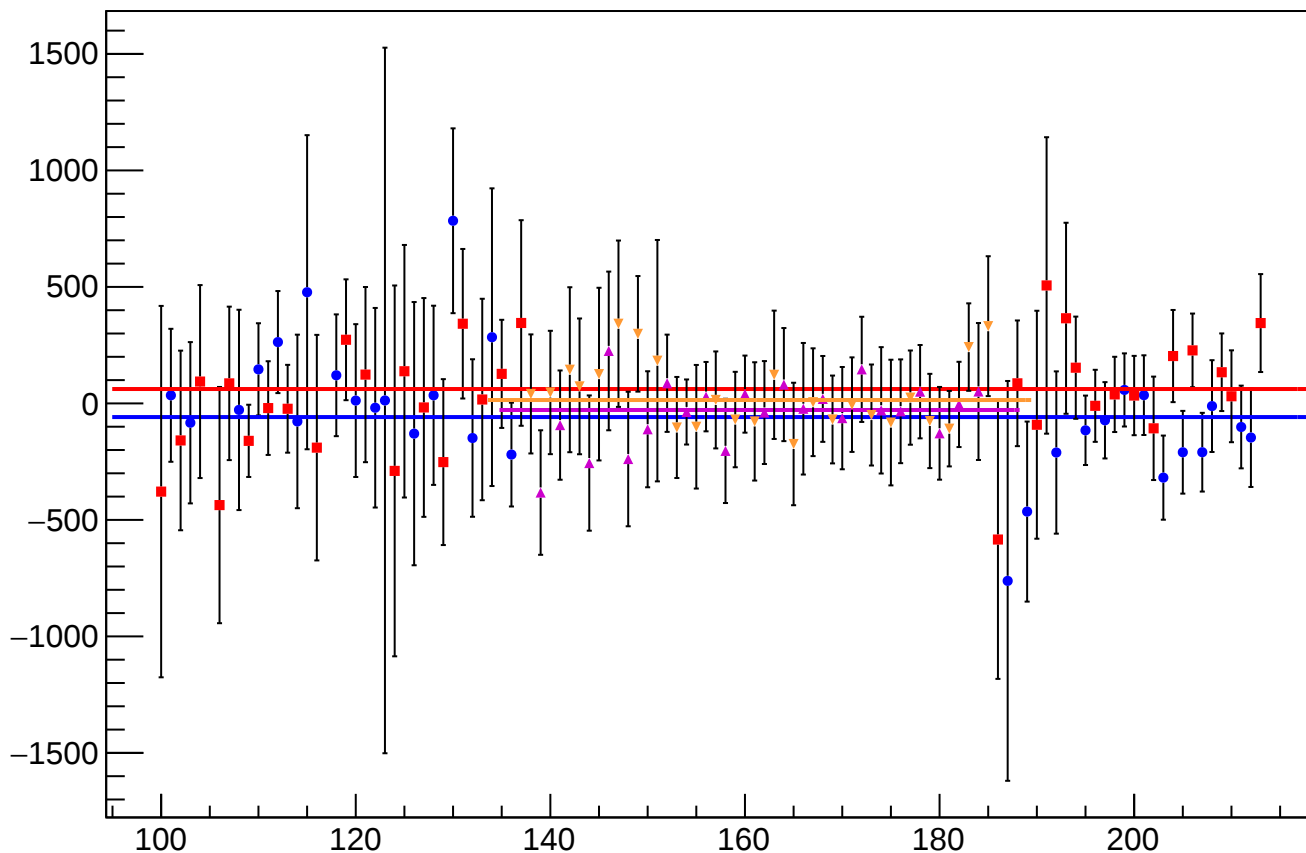
- sign -12.918 ± 0.380 χ^2/NDF : 9100.2/56

diff_bpm1i06Y_rms vs Slug



Right In: 1960.081 $\pm$ 0.357	χ^2 /NDF: 1181136.5/29	+ sign 2235.412 $\pm$ 0.278	χ^2 /NDF: 3309966.9/54
Left Out: 2658.486 $\pm$ 0.442	χ^2 /NDF: 618133.8/24		
Right Out: 1899.269 $\pm$ 0.333	χ^2 /NDF: 1823863.4/33	All: 2195.312 $\pm$ 0.193	χ^2 /NDF: 7542392.3/11
Left In: 2636.885 $\pm$ 0.454	χ^2 /NDF: 652894.5/22	- sign 2157.762 $\pm$ 0.269	χ^2 /NDF: 4192042.7/56

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: -58.607 ± 44.289 χ^2/NDF : 16.8/29

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: 61.770 ± 43.071 χ^2/NDF : 14.2/33

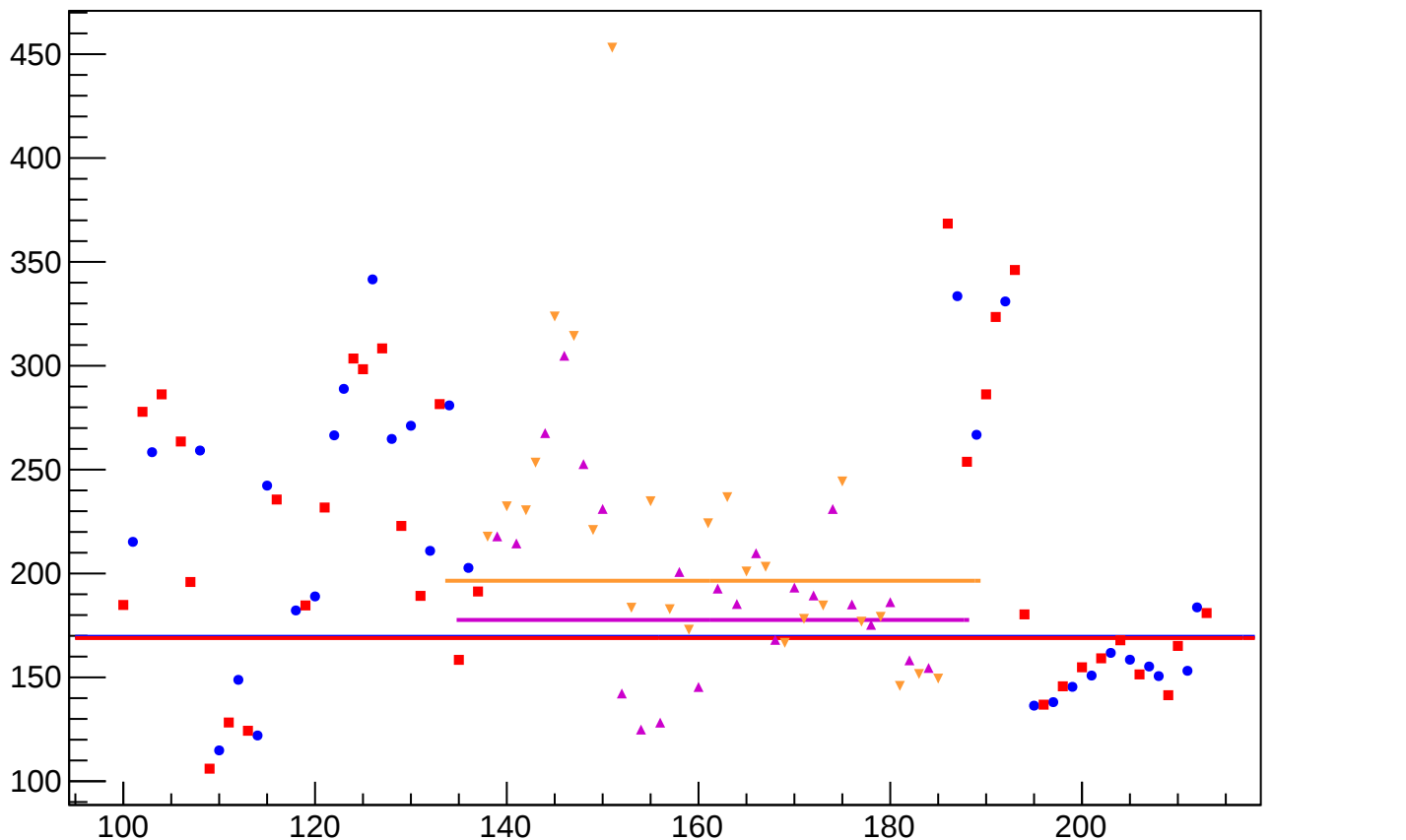
Left In: -28.310 ± 44.638 χ^2/NDF : 6.3/22

+ sign -24.620 ± 32.402 χ^2/NDF : 25.9/54

All: -2.188 ± 22.398 χ^2/NDF : 49.4/111

- sign 18.339 ± 30.995 χ^2/NDF : 22.6/56

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 169.533 $\pm$ 0.031 χ^2 /NDF: 2141052.7/29

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF: 1789504.4/24

Right Out: 168.930 $\pm$ 0.030 χ^2 /NDF: 2838483.8/33

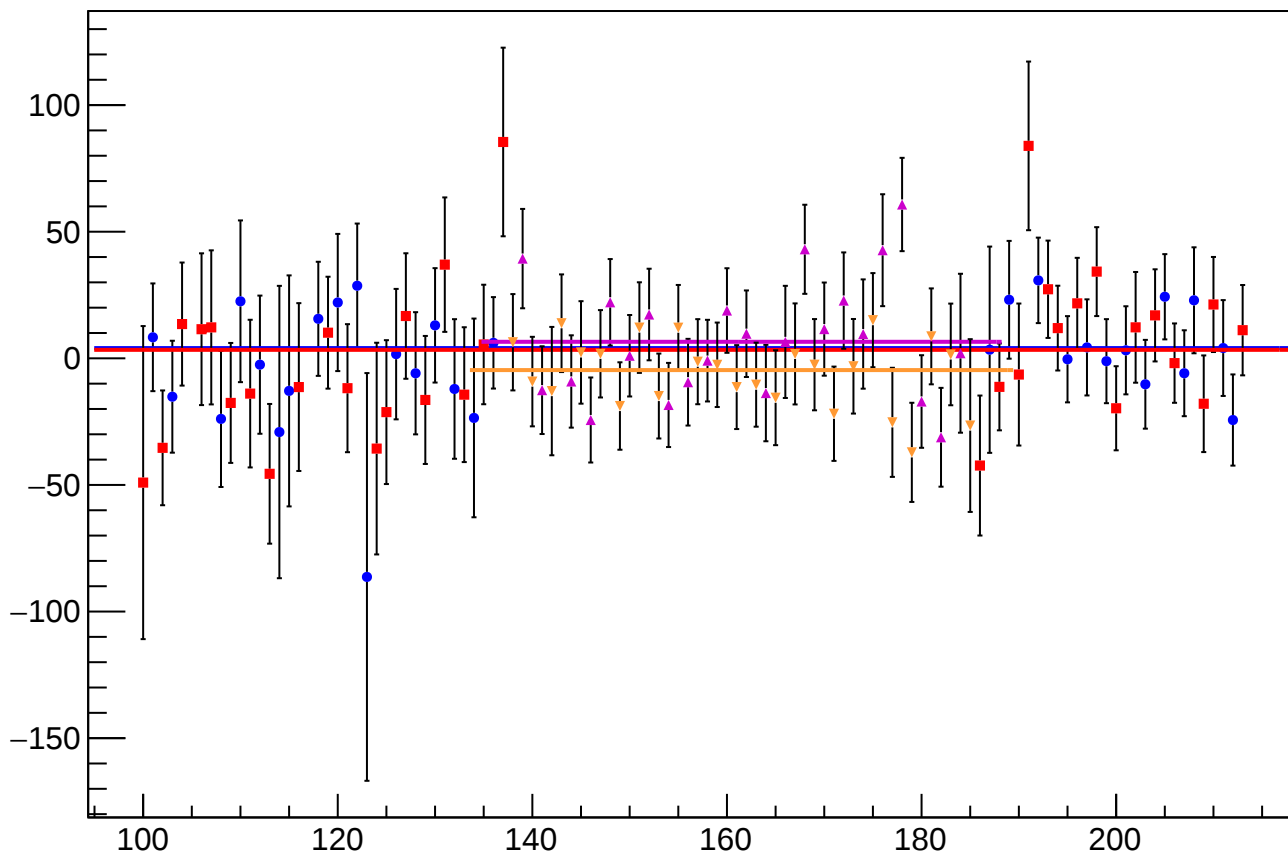
Left In: 177.643 $\pm$ 0.032 χ^2 /NDF: 1630664.5/22

+ sign 182.073 $\pm$ 0.023 χ^2 /NDF: 4275529.6/54

All: 177.404 $\pm$ 0.016 χ^2 /NDF: 8863672.5/111

- sign 173.131 $\pm$ 0.022 χ^2 /NDF: 4508608.3/56

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 4.037 ± 4.027 $\chi^2/\text{NDF}: 16.0/29$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: 3.351 ± 3.884 $\chi^2/\text{NDF}: 38.8/33$

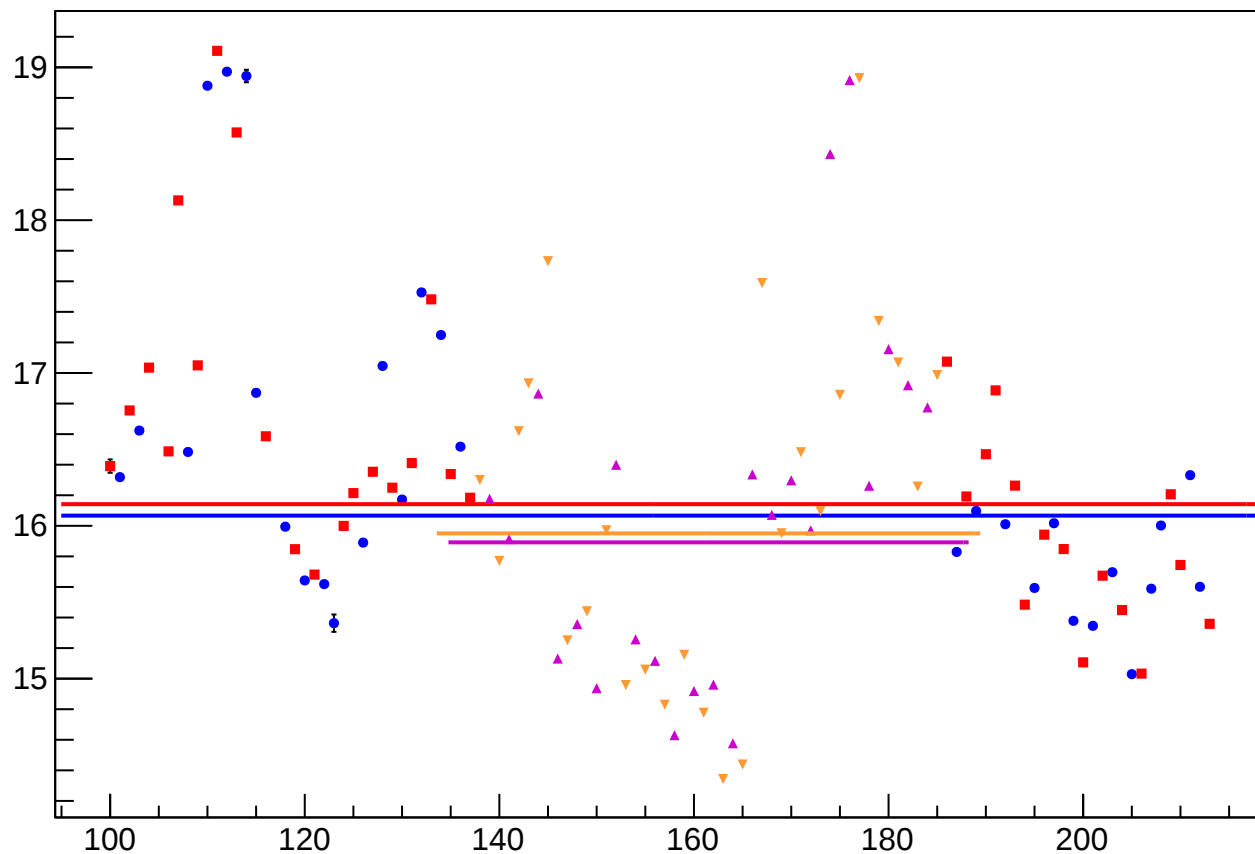
Left In: 6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

+ sign -0.639 ± 2.736 $\chi^2/\text{NDF}: 30.6/54$

All: 2.171 ± 1.931 $\chi^2/\text{NDF}: 108.2/111$

- sign 4.962 ± 2.726 $\chi^2/\text{NDF}: 75.6/56$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 16.067 $\pm$ 0.003 χ^2 /NDF: 79612.8/29

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.142 $\pm$ 0.003 χ^2 /NDF: 93124.8/33

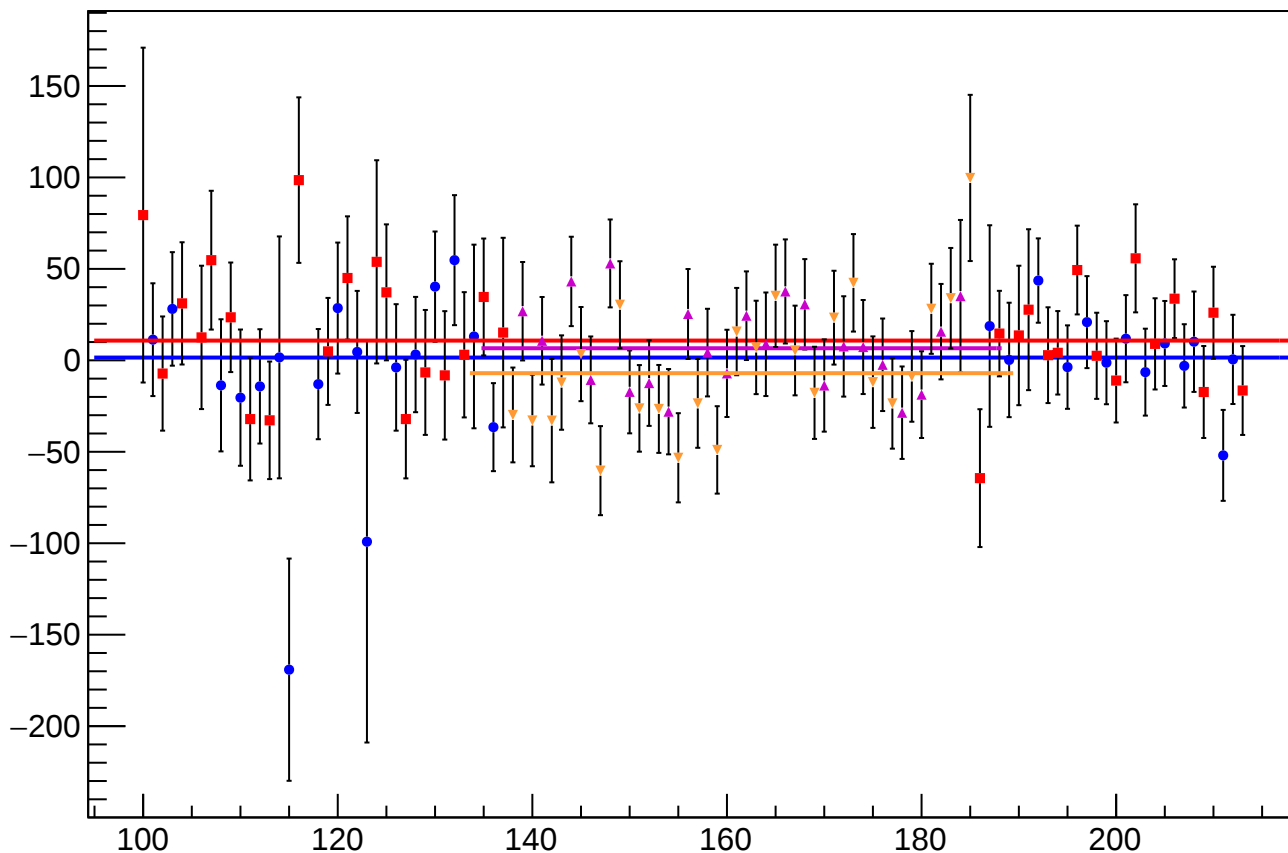
Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

+ sign 16.004 $\pm$ 0.002 χ^2 /NDF: 253964.9/54

All: 16.010 $\pm$ 0.001 χ^2 /NDF: 498398.5/111

- sign 16.015 $\pm$ 0.002 χ^2 /NDF: 244418.1/56

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: 1.518 ± 5.389 χ^2/NDF : 26.9/29

Left Out: -7.017 ± 5.121 χ^2/NDF : 37.4/24

Right Out: 10.806 ± 5.194 χ^2/NDF : 29.4/33

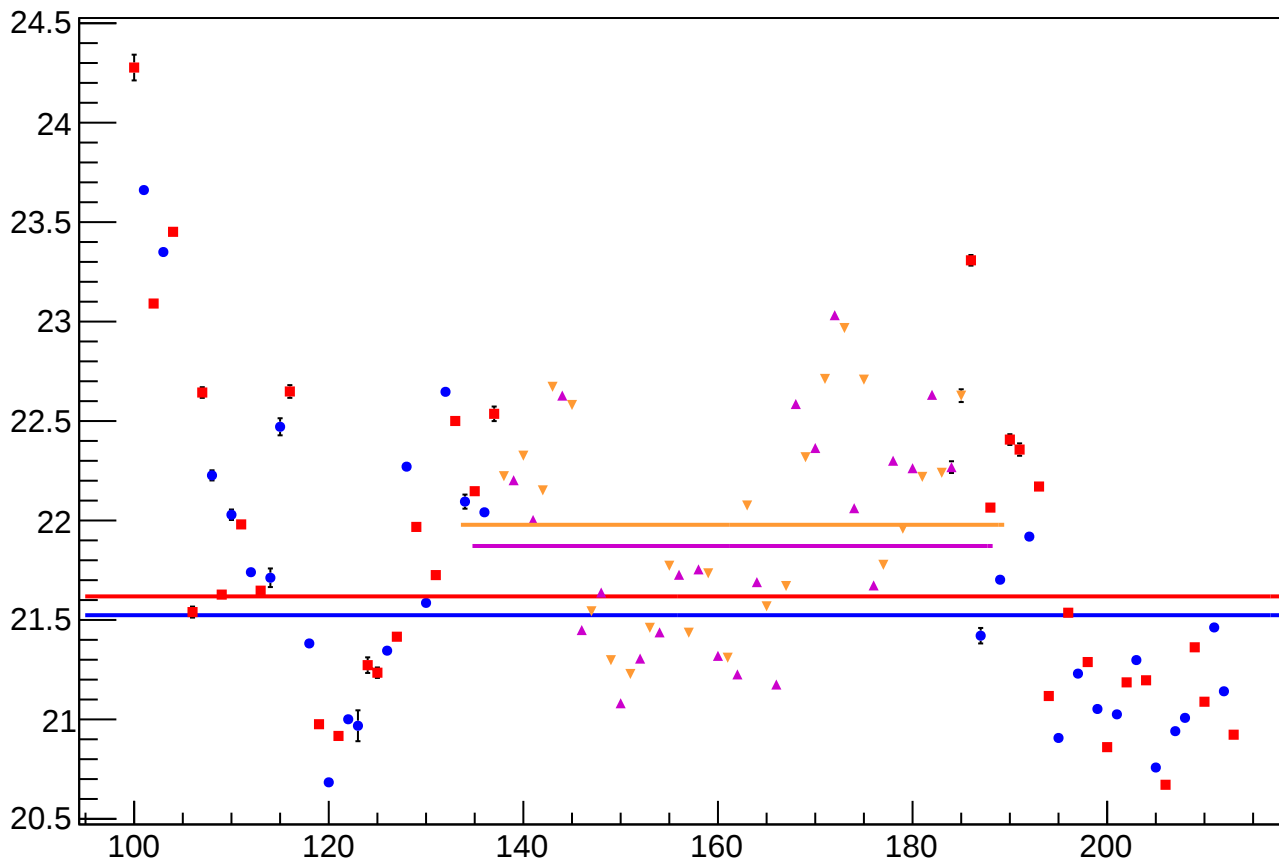
Left In: 6.611 ± 5.251 χ^2/NDF : 19.1/22

+ sign -2.967 ± 3.712 χ^2/NDF : 65.7/54

All: 2.913 ± 2.618 χ^2/NDF : 119.5/111

- sign 8.732 ± 3.693 χ^2/NDF : 48.8/56

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.524 $\pm$ 0.004 χ^2 /NDF: 33315.8/29

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF: 19430.2/24

Right Out: 21.618 $\pm$ 0.004 χ^2 /NDF: 38047.0/33

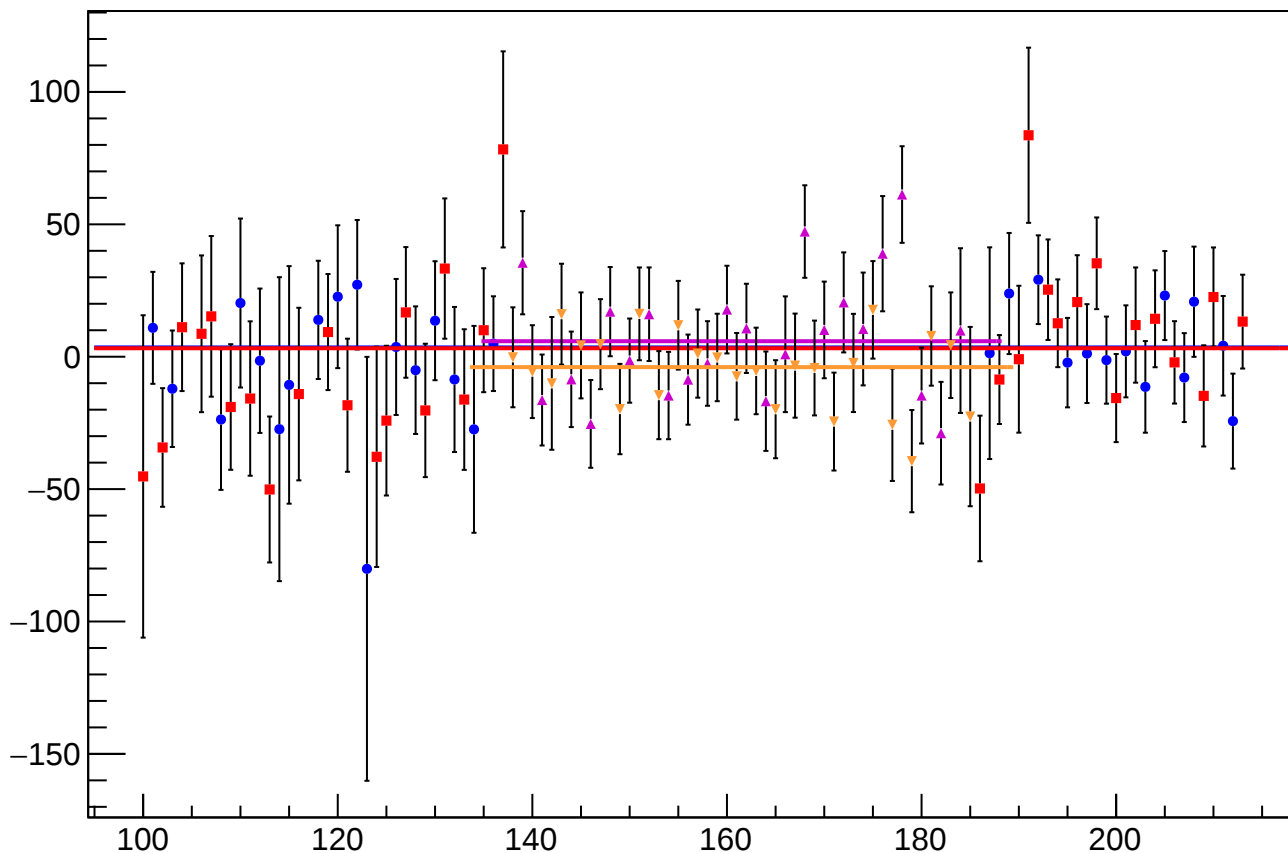
Left In: 21.872 $\pm$ 0.004 χ^2 /NDF: 20524.9/22

+ sign 21.763 $\pm$ 0.003 χ^2 /NDF: 60222.0/54

All: 21.753 $\pm$ 0.002 χ^2 /NDF: 121173.6/111

- sign 21.744 $\pm$ 0.003 χ^2 /NDF: 60925.3/56

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 3.505 $\pm$ 3.999 χ^2 /NDF: 15.3/29

Left Out: -3.927 $\pm$ 3.688 χ^2 /NDF:14.0/24

Right Out: 3.196 $\pm$ 3.858 χ^2 /NDF: 39.4/33

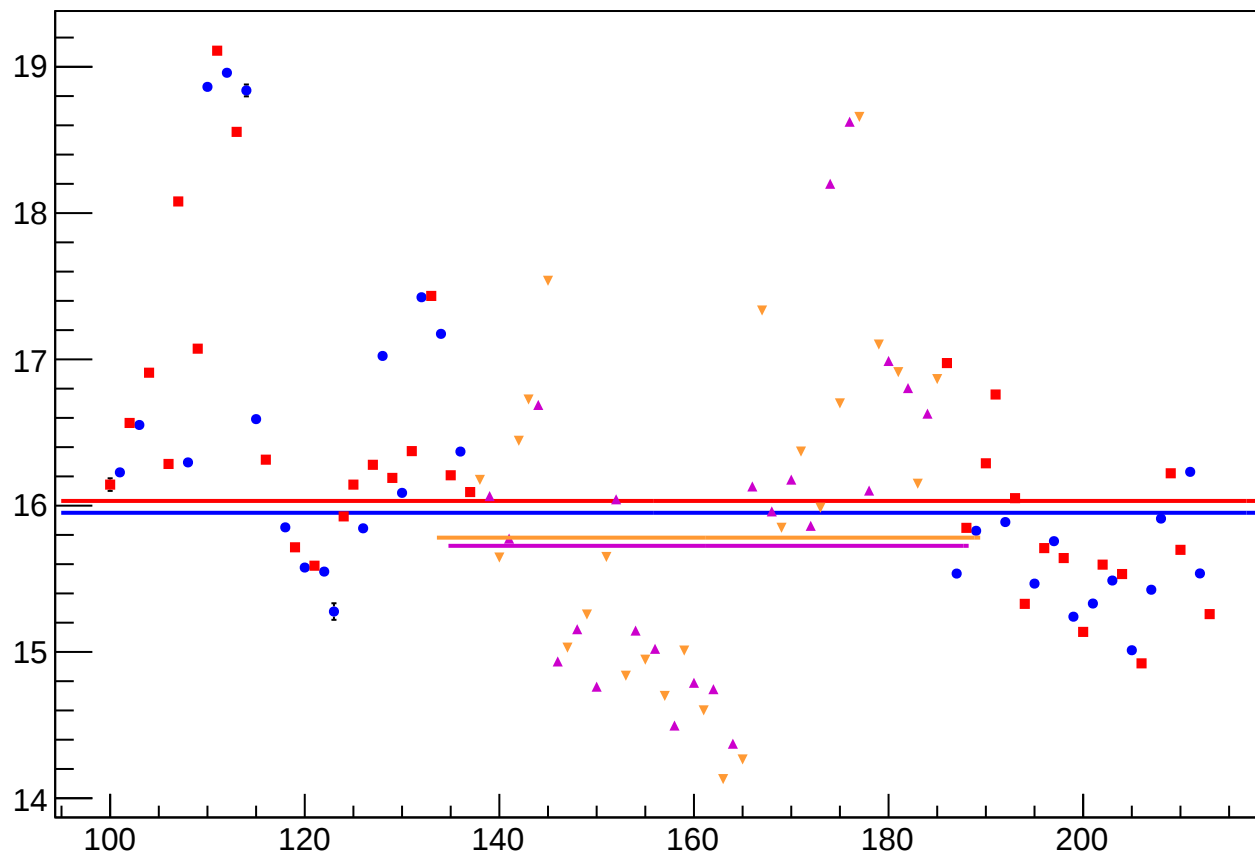
Left In: 5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

+ sign -0.511 $\pm$ 2.711 χ^2 /NDF: 31.1/54

All: 2.029 $\pm$ 1.914 χ^2 /NDF: 108.7/111

- sign 4.554 $\pm$ 2.703 χ^2 /NDF: 75.8/56

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 15.951 $\pm$ 0.003 χ^2 /NDF: 82262.5/29

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF: 172894.3/24

Right Out: 16.032 $\pm$ 0.003 χ^2 /NDF: 95405.6/33

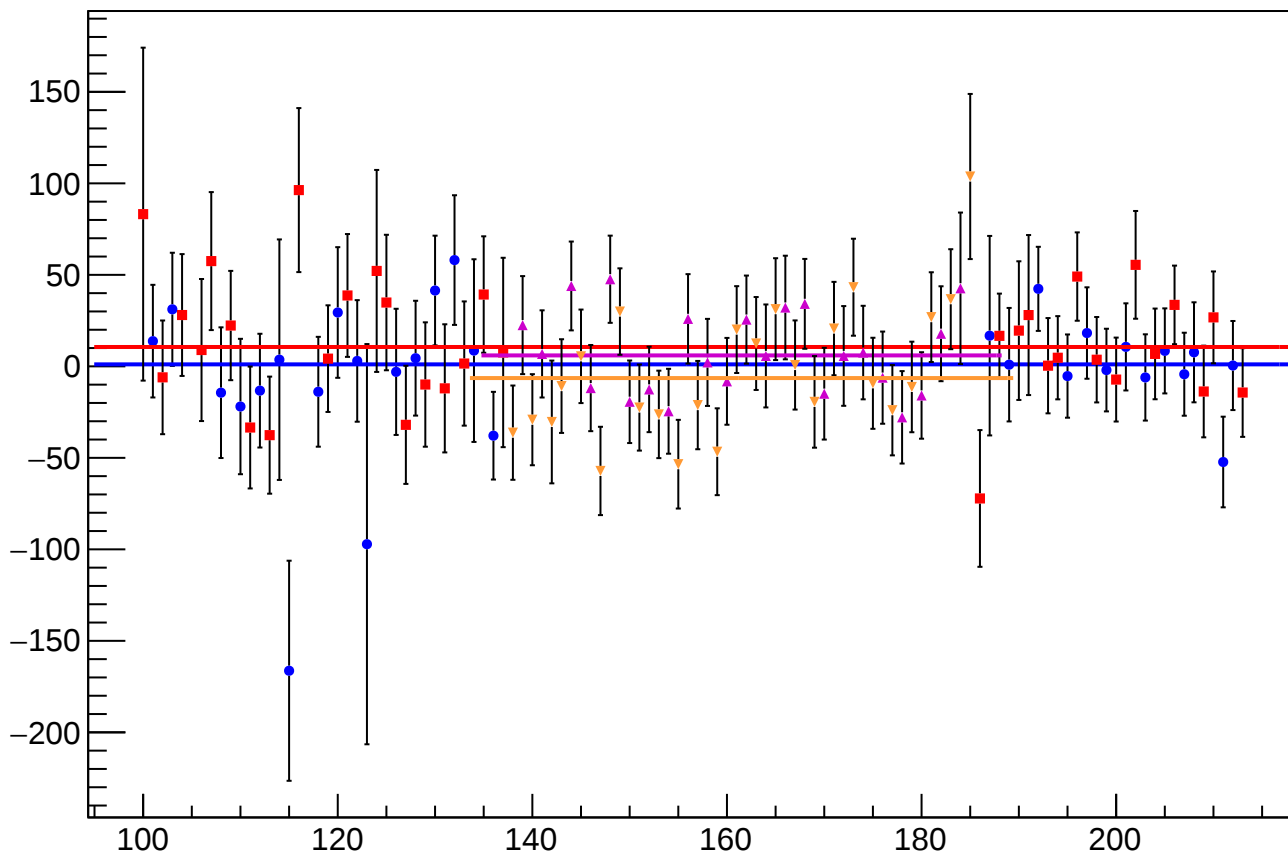
Left In: 15.725 $\pm$ 0.003 χ^2 /NDF: 145830.9/22

+ sign 15.859 $\pm$ 0.002 χ^2 /NDF: 257108.9/54

All: 15.868 $\pm$ 0.001 χ^2 /NDF: 504826.9/111

- sign 15.876 $\pm$ 0.002 χ^2 /NDF: 247680.6/56

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: 1.085 ± 5.365 χ^2/NDF : 27.4/29

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: 10.580 ± 5.169 χ^2/NDF : 30.3/33

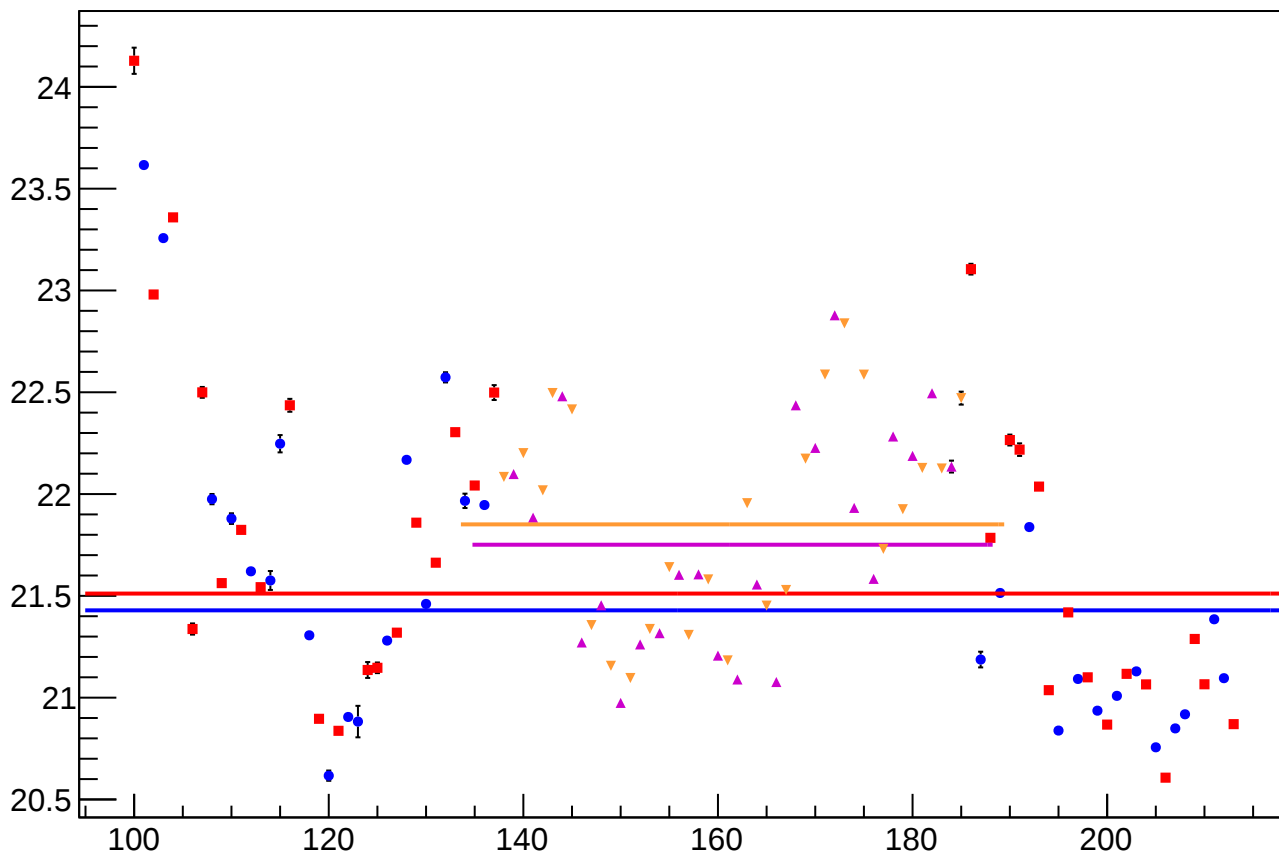
Left In: 5.978 ± 5.222 χ^2/NDF : 18.5/22

+ sign -2.855 ± 3.693 χ^2/NDF : 65.8/54

All: 2.753 ± 2.605 χ^2/NDF : 119.6/111

- sign 8.303 ± 3.674 χ^2/NDF : 49.2/56

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.429 $\pm$ 0.004 χ^2 /NDF: 32700.4/29

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.511 $\pm$ 0.004 χ^2 /NDF: 35308.4/33

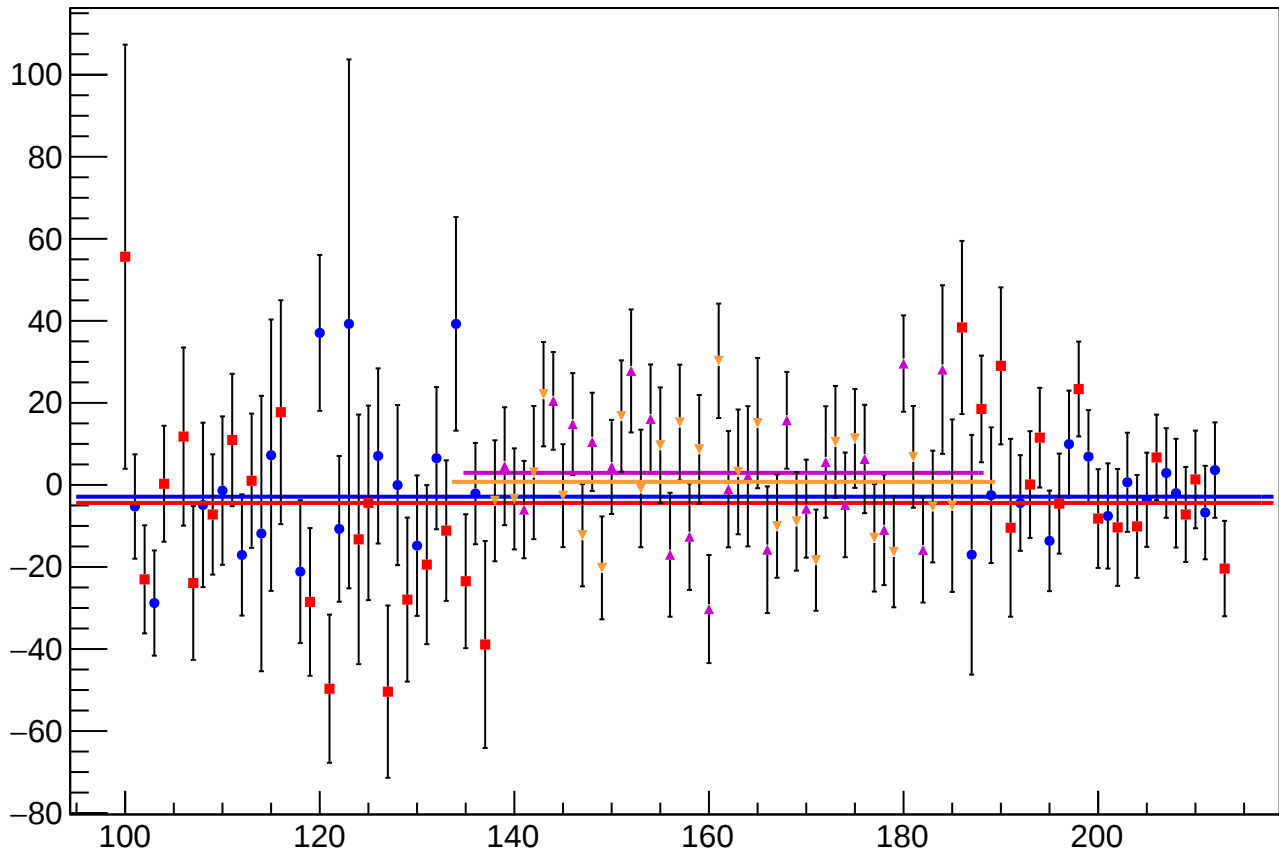
Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

+ sign 21.651 $\pm$ 0.003 χ^2 /NDF: 58851.4/54

All: 21.640 $\pm$ 0.002 χ^2 /NDF: 116841.6/111

- sign 21.630 $\pm$ 0.003 χ^2 /NDF: 57957.5/56

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -2.869 ± 2.718 χ^2/NDF : 18.7/29

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: -4.391 ± 2.635 χ^2/NDF : 46.9/33

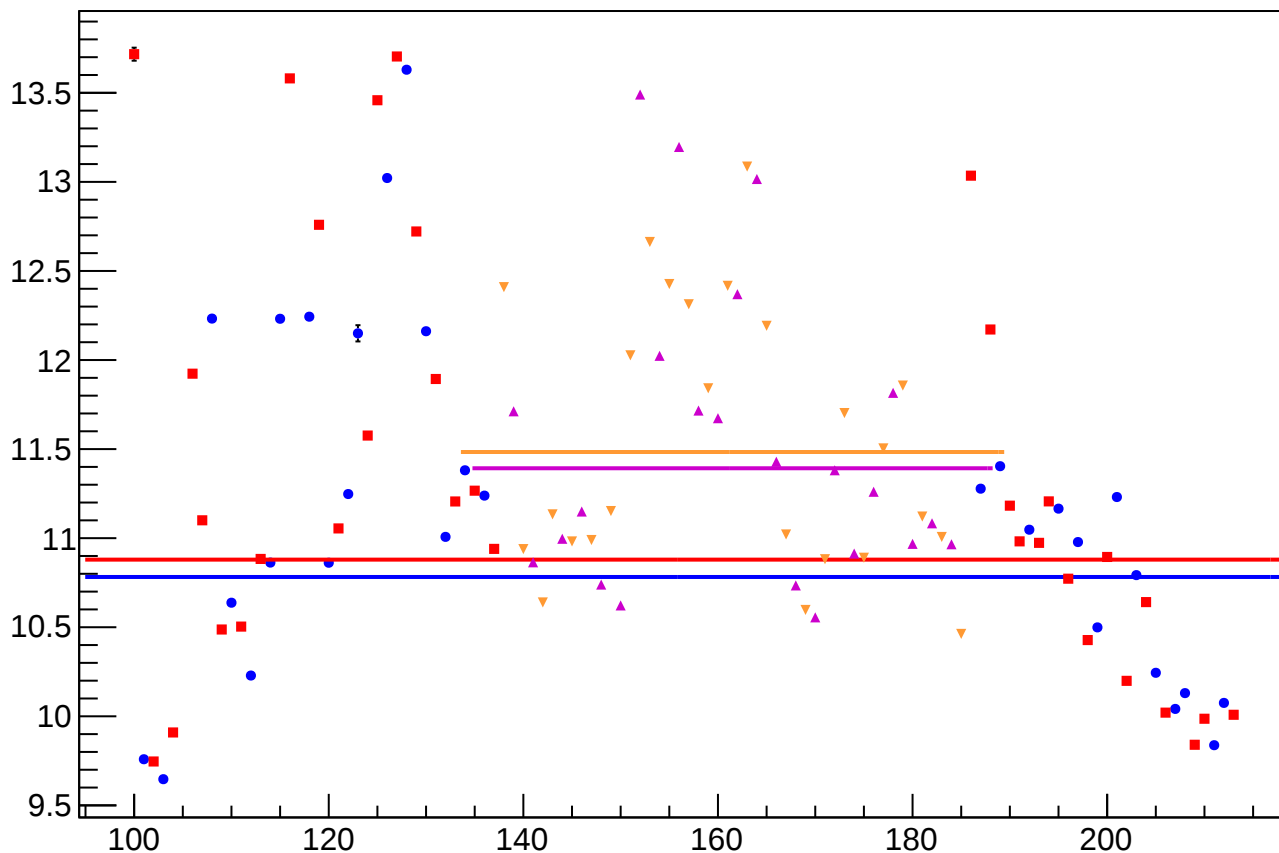
Left In: 2.944 ± 2.757 χ^2/NDF : 30.9/22

+ sign -1.042 ± 1.915 χ^2/NDF : 43.4/54

All: -0.965 ± 1.351 χ^2/NDF : 124.9/111

- sign -0.889 ± 1.905 χ^2/NDF : 81.5/56

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 10.782 ± 0.002 χ^2/NDF : 193997.9/29

Left Out: 11.484 ± 0.002 χ^2/NDF : 129805.4/24

Right Out: 10.880 ± 0.002 χ^2/NDF : 267701.1/33

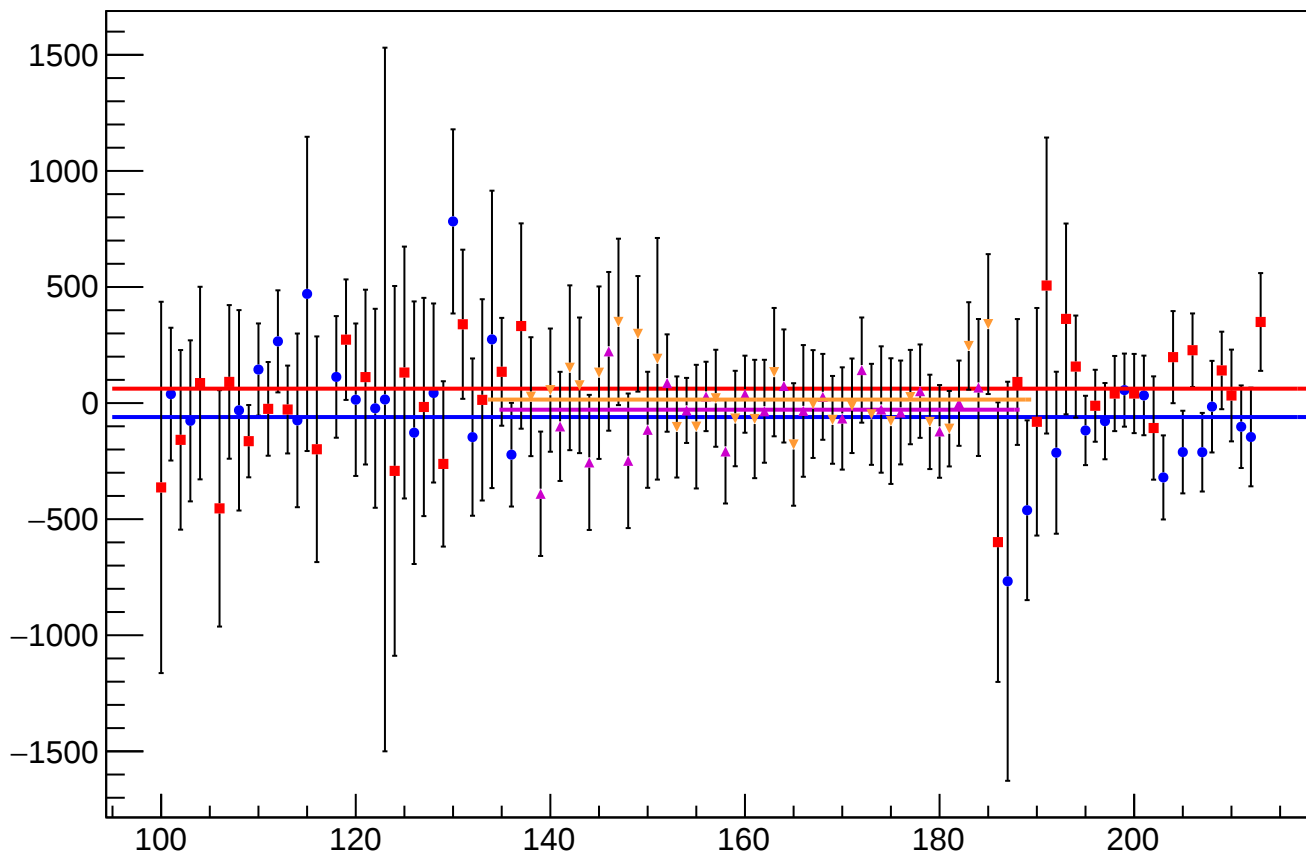
Left In: 11.392 ± 0.002 χ^2/NDF : 150493.3/22

+ sign 11.135 ± 0.001 χ^2/NDF : 390919.0/54

All: 11.130 ± 0.001 χ^2/NDF : 845301.5/111

- sign 11.124 ± 0.001 χ^2/NDF : 454348.8/56

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug



Right In: -60.184 ± 44.396 χ^2/NDF : 16.8/29

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: 62.126 ± 43.184 χ^2/NDF : 14.4/33

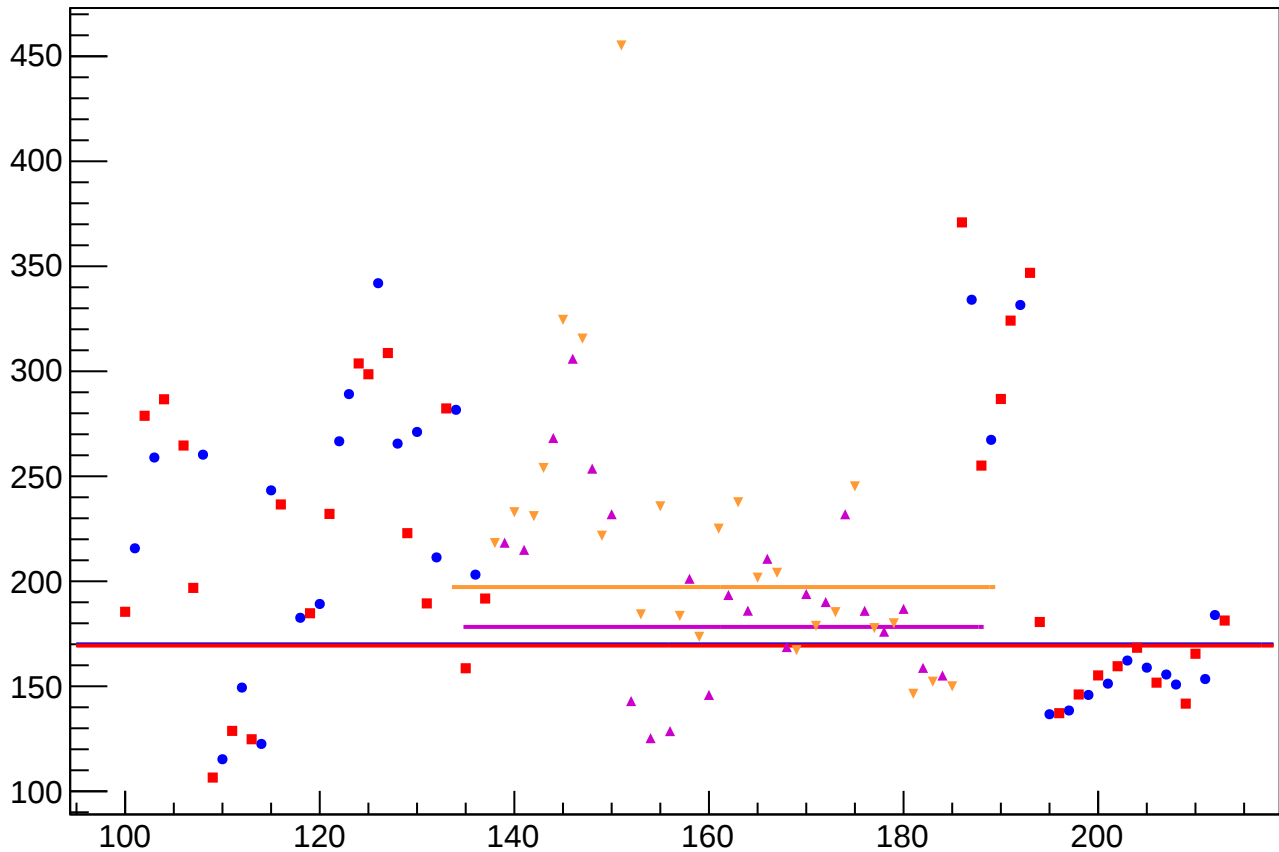
Left In: -28.500 ± 44.797 χ^2/NDF : 6.4/22

+ sign -25.229 ± 32.500 χ^2/NDF : 26.1/54

All: -2.409 ± 22.466 χ^2/NDF : 50.0/111

- sign 18.474 ± 31.090 χ^2/NDF : 23.0/56

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug



Right In: 169.957 $\pm$ 0.031 χ^2 /NDF: 2136283.3/29

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF: 1786808.1/24

Right Out: 169.380 $\pm$ 0.031 χ^2 /NDF: 2835072.6/33

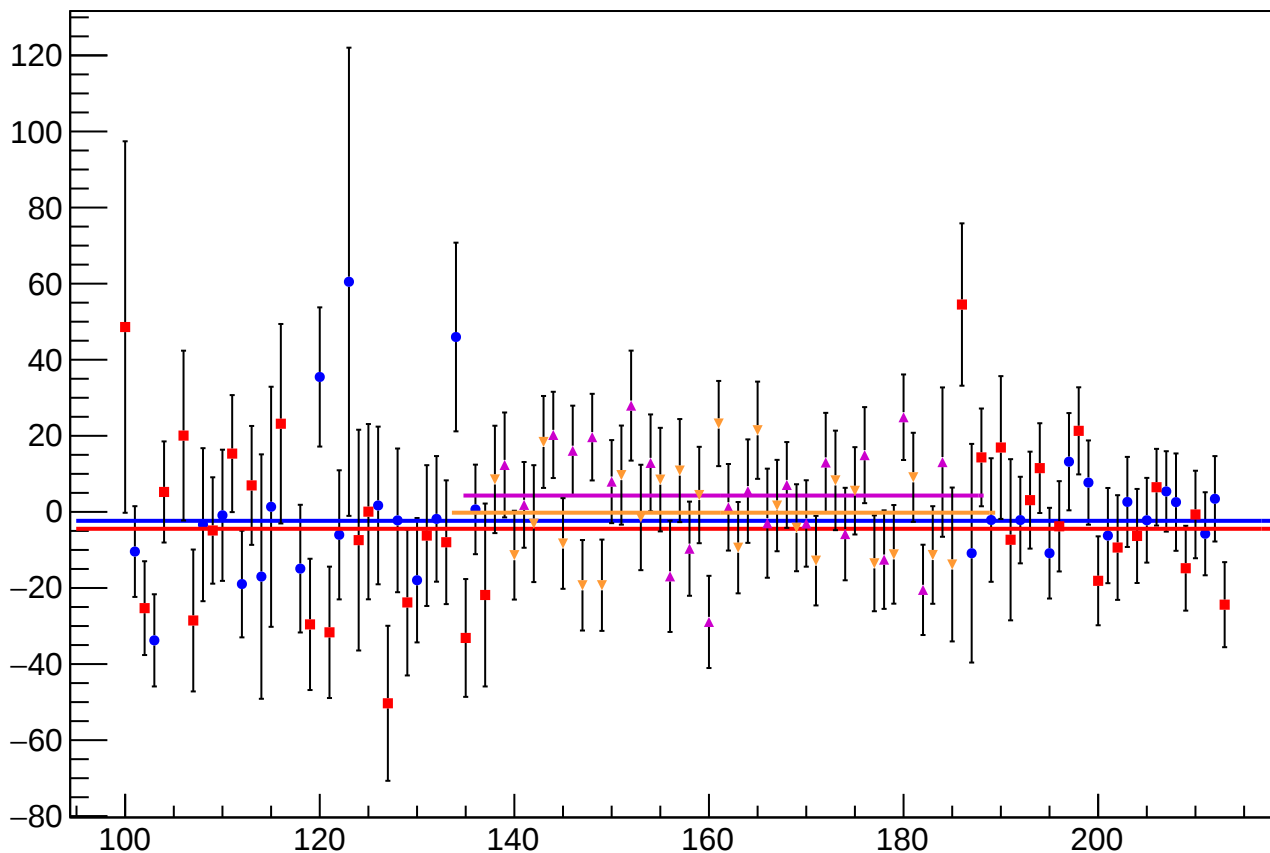
Left In: 178.277 $\pm$ 0.032 χ^2 /NDF: 1628916.6/22

+ sign 182.624 $\pm$ 0.023 χ^2 /NDF: 4273887.3/54

All: 177.946 $\pm$ 0.016 χ^2 /NDF: 8858107.7/111

- sign 173.666 $\pm$ 0.022 χ^2 /NDF: 4504875.7/56

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug



Right In: -2.346 ± 2.622 χ^2/NDF : 23.8/29

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: -4.442 ± 2.549 χ^2/NDF : 50.7/33

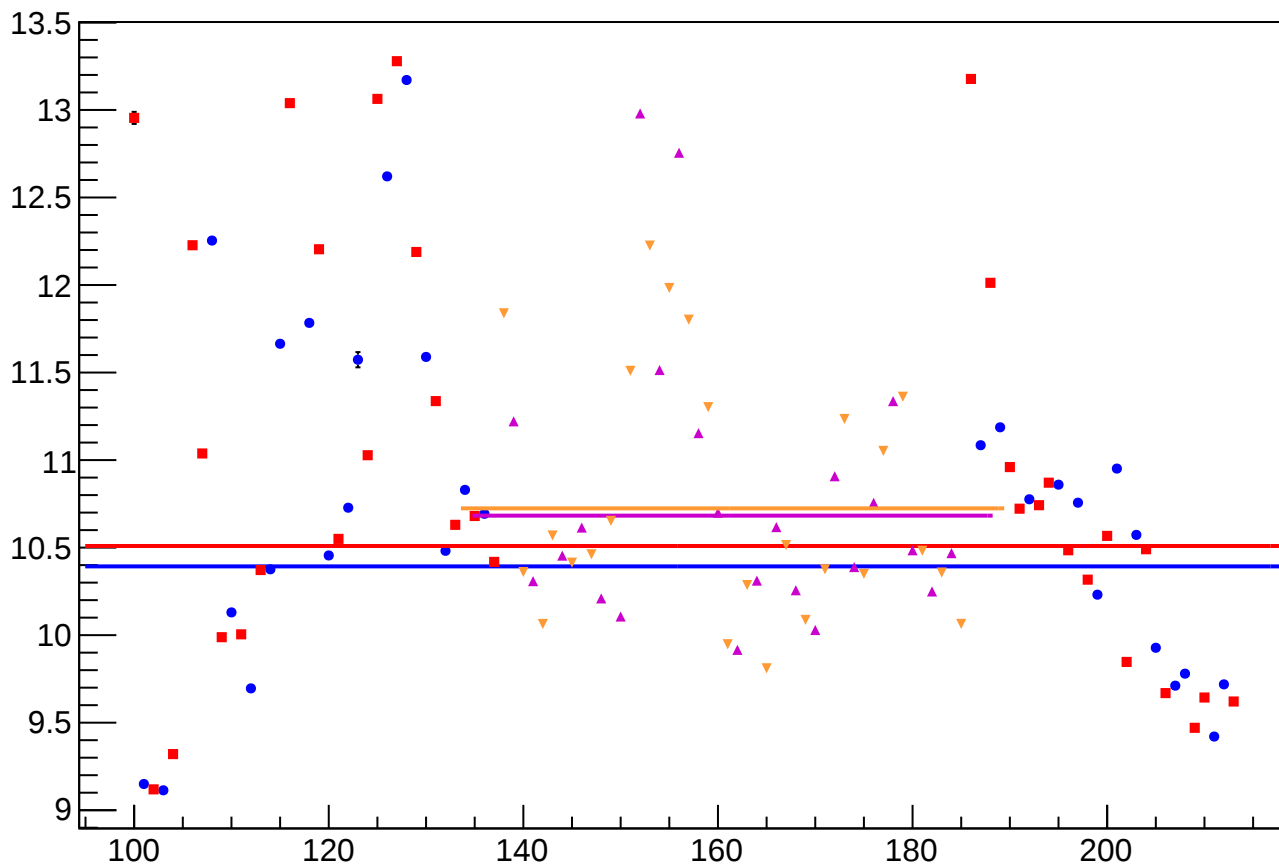
Left In: 4.298 ± 2.589 χ^2/NDF : 31.6/22

+ sign -1.238 ± 1.818 χ^2/NDF : 48.6/54

All: -0.689 ± 1.285 χ^2/NDF : 136.9/111

- sign -0.141 ± 1.816 χ^2/NDF : 88.0/56

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug



Right In: 10.393 $\pm$ 0.002 χ^2 /NDF: 221375.4/29

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF: 132558.9/24

Right Out: 10.509 $\pm$ 0.002 χ^2 /NDF: 307789.8/33

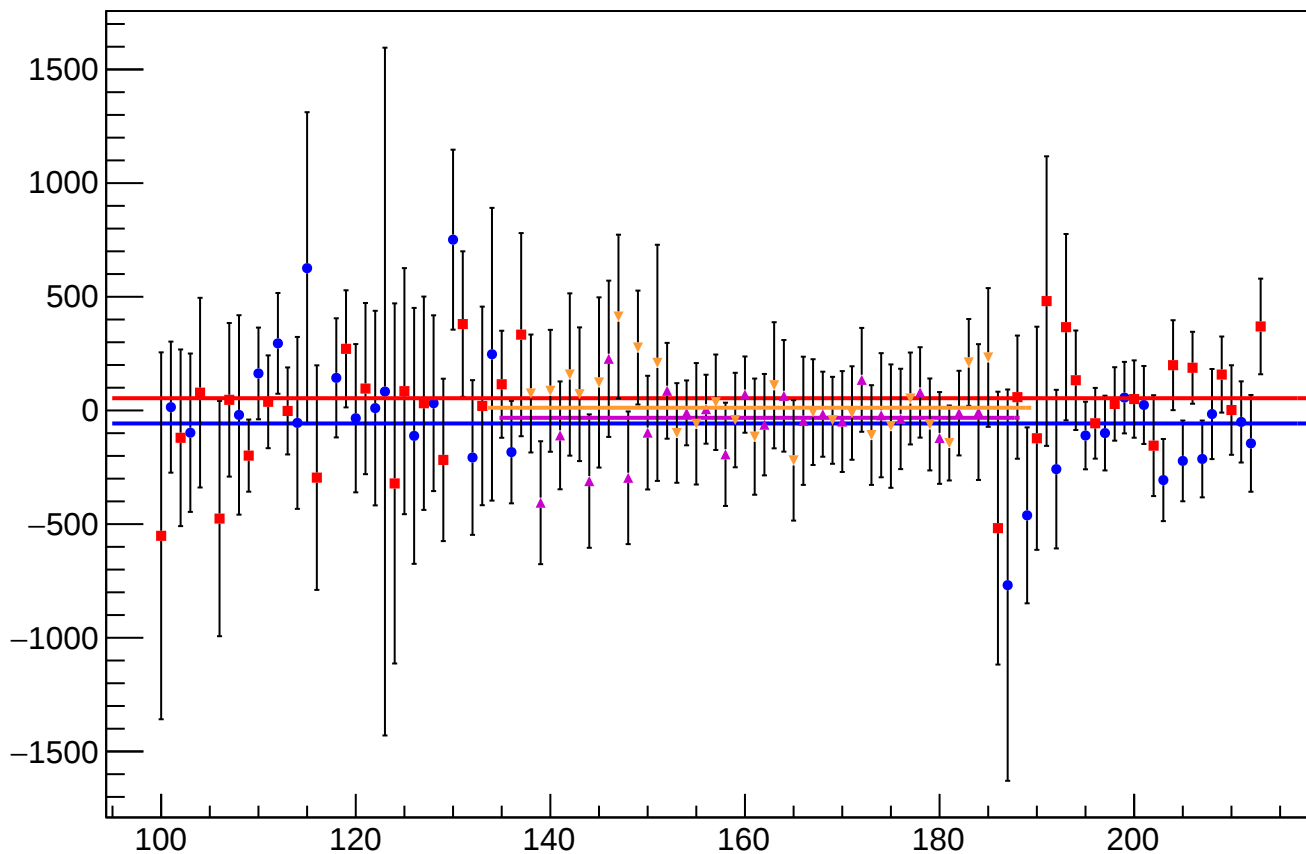
Left In: 10.683 $\pm$ 0.002 χ^2 /NDF: 147835.6/22

+ sign 10.565 $\pm$ 0.001 χ^2 /NDF: 370520.0/54

All: 10.580 $\pm$ 0.001 χ^2 /NDF: 830965.6/111

- sign 10.595 $\pm$ 0.001 χ^2 /NDF: 460177.5/56

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: -57.248 ± 44.477 χ^2/NDF : 17.3/29

Left Out: 11.891 ± 48.022 χ^2/NDF : 7.6/24

Right Out: 53.848 ± 43.313 χ^2/NDF : 15.5/33

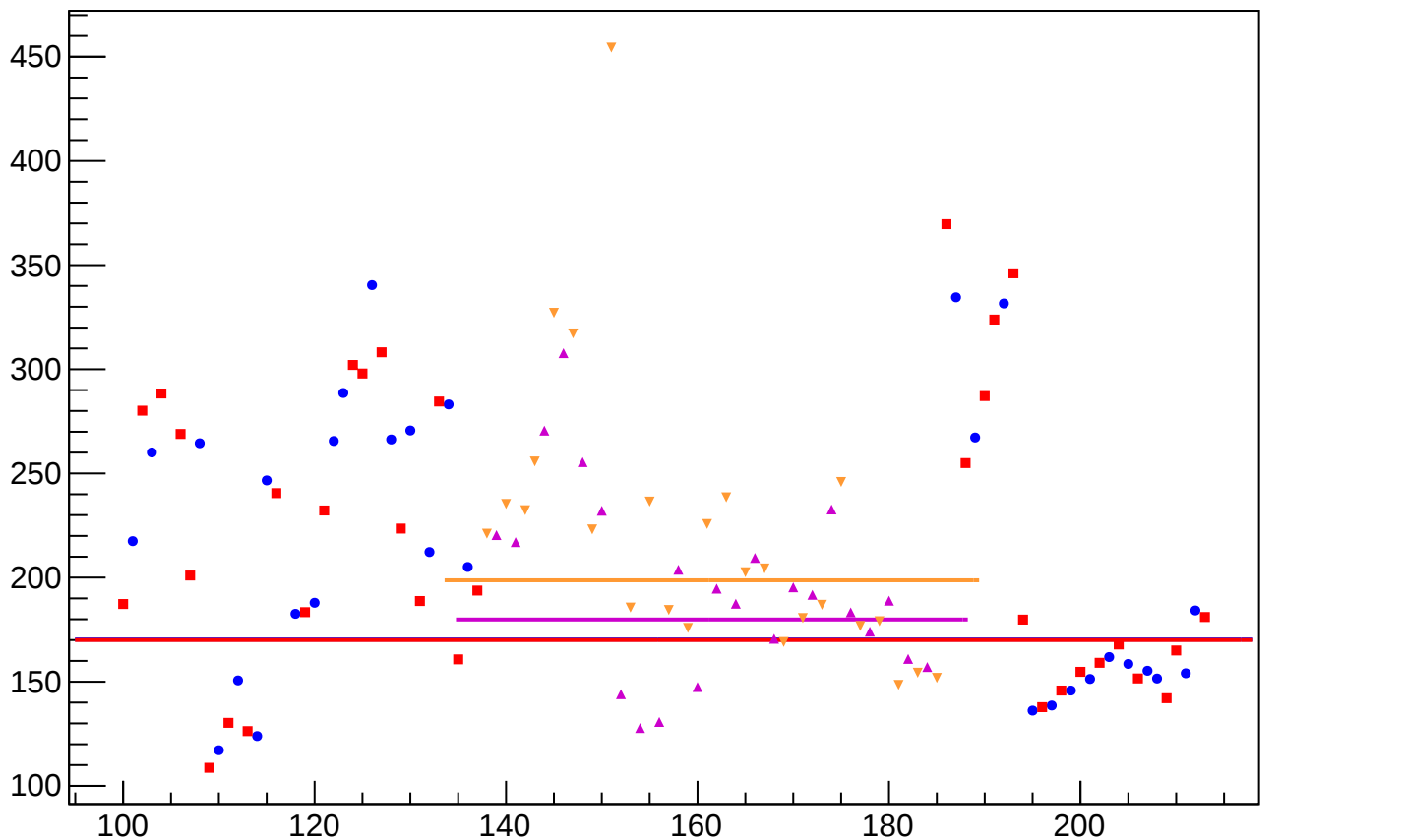
Left In: -32.413 ± 45.155 χ^2/NDF : 6.9/22

+ sign -25.325 ± 32.631 χ^2/NDF : 26.0/54

All: -5.593 ± 22.572 χ^2/NDF : 51.1/111

- sign 12.513 ± 31.258 χ^2/NDF : 24.3/56

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 170.269 $\pm$ 0.031 χ^2 /NDF: 2134357.7/29

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 170.023 $\pm$ 0.031 χ^2 /NDF: 2794196.9/33

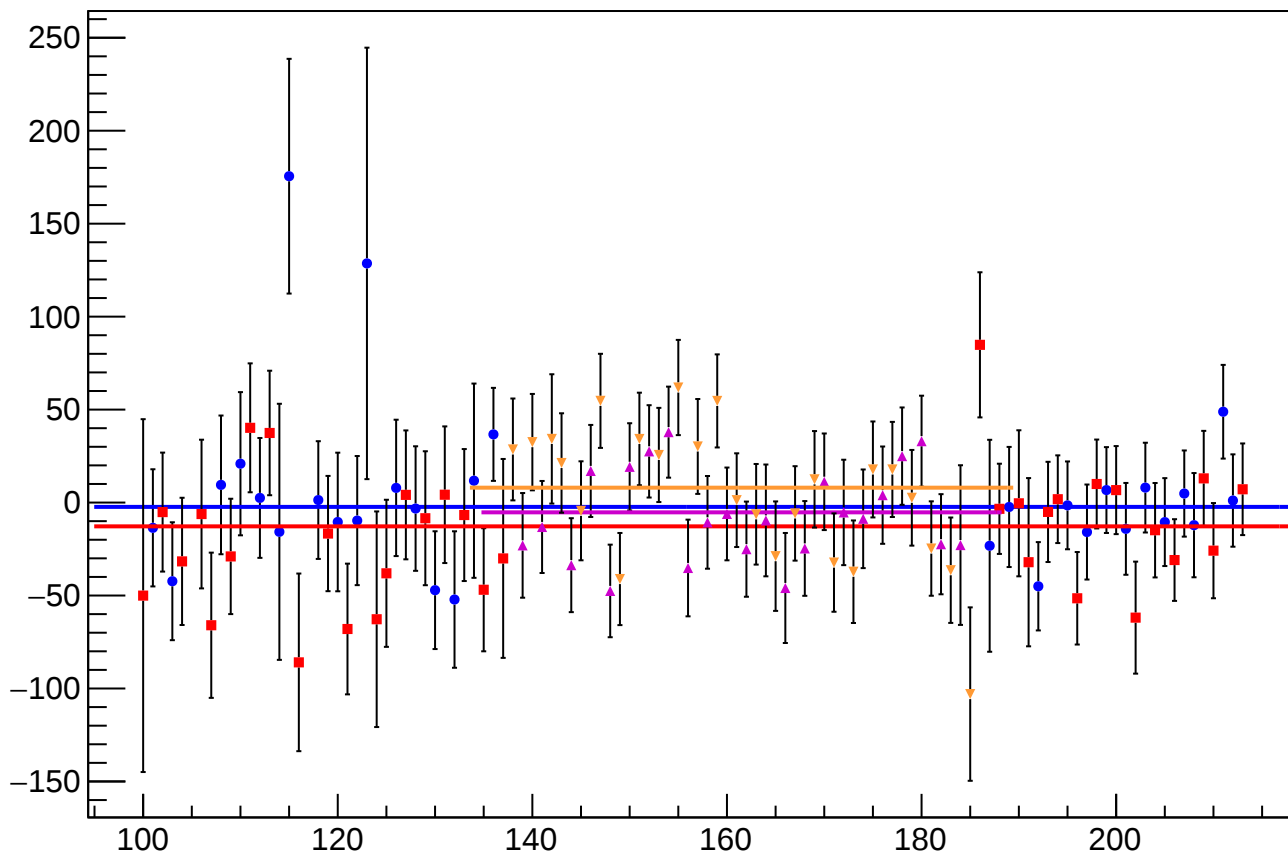
Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

+ sign 183.394 $\pm$ 0.023 χ^2 /NDF: 4270884.9/54

All: 178.886 $\pm$ 0.016 χ^2 /NDF: 8768607.5/111

- sign 174.750 $\pm$ 0.022 χ^2 /NDF: 4424530.1/56

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -2.327 ± 5.547 χ^2/NDF : 26.7/29

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: -12.797 ± 5.356 χ^2/NDF : 31.3/33

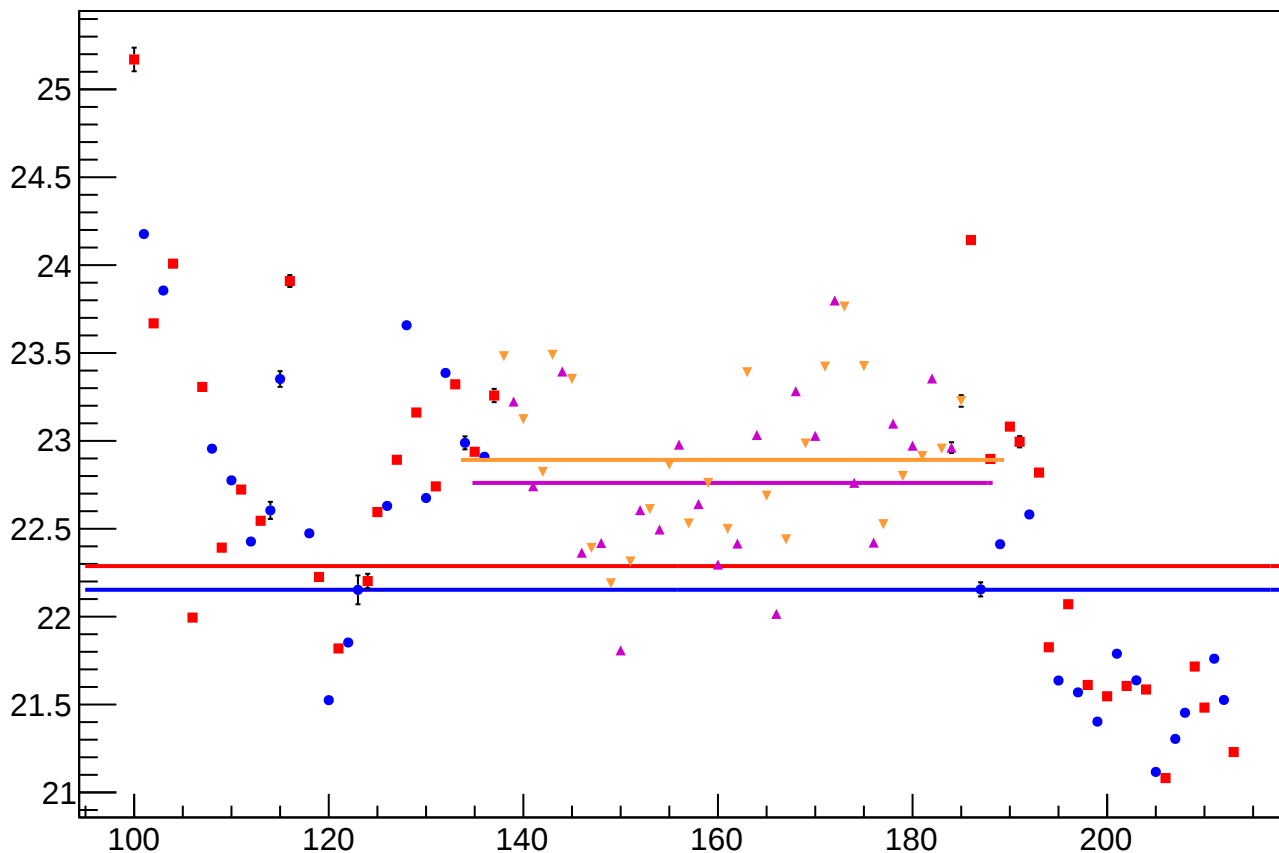
Left In: -5.261 ± 5.465 χ^2/NDF : 20.8/22

+ sign 3.041 ± 3.845 χ^2/NDF : 65.9/54

All: -3.063 ± 2.712 χ^2/NDF : 124.0/111

- sign -9.105 ± 3.825 χ^2/NDF : 53.1/56

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 22.153+/-0.004 χ^2/NDF : 42632.7/29

Left Out: 22.892+/-0.004 χ^2/NDF : 12995.5/24

Right Out: 22.288+/-0.004 χ^2/NDF : 48156.2/33

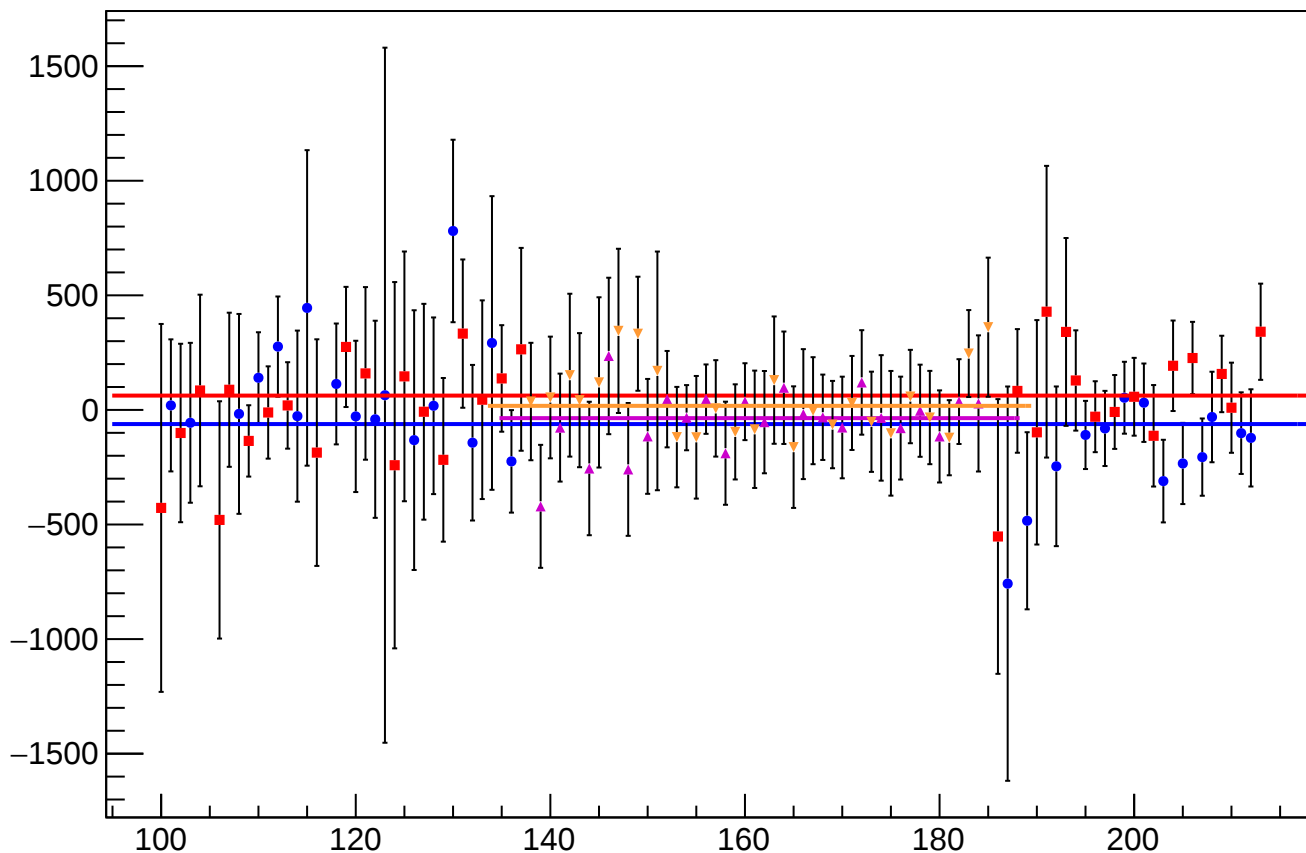
Left In: 22.761+/-0.004 χ^2/NDF : 14550.0/22

+ sign 22.537+/-0.003 χ^2/NDF : 74070.3/54

All: 22.528+/-0.002 χ^2/NDF : 144442.9/111

- sign 22.520+/-0.003 χ^2/NDF : 70352.3/56

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug



Right In: -61.736 ± 44.348 χ^2/NDF : 16.8/29

Left Out: 17.777 ± 47.941 χ^2/NDF : 8.5/24

Right Out: 62.525 ± 43.130 χ^2/NDF : 13.1/33

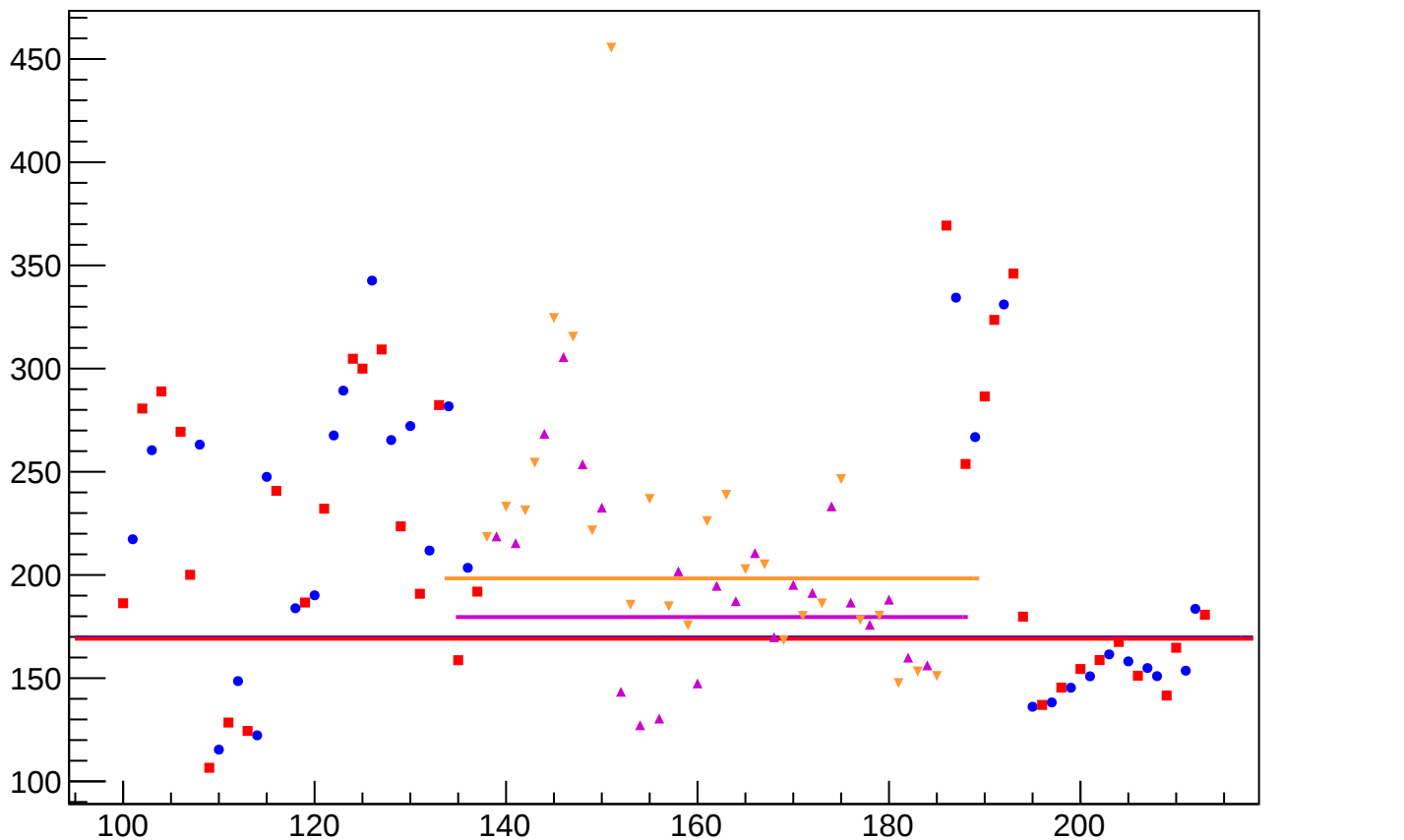
Left In: -35.879 ± 45.087 χ^2/NDF : 6.3/22

+ sign -25.071 ± 32.555 χ^2/NDF : 26.8/54

All: -3.899 ± 22.513 χ^2/NDF : 49.5/111

- sign 15.505 ± 31.166 χ^2/NDF : 21.9/56

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug



Right In: 169.698 $\pm$ 0.031 χ^2 /NDF: 2164346.7/29

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 169.113 $\pm$ 0.030 χ^2 /NDF: 2862288.6/33

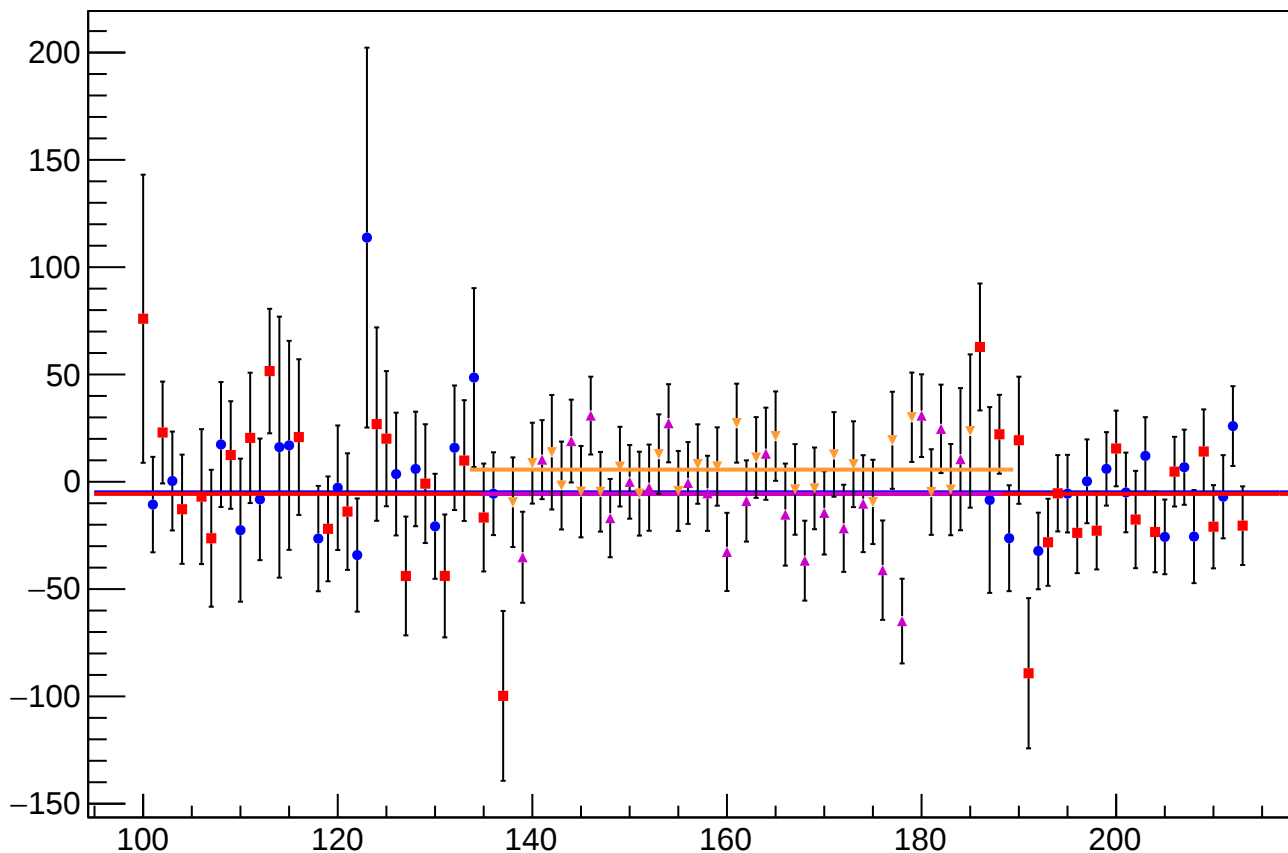
Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

+ sign 182.907 $\pm$ 0.023 χ^2 /NDF: 4306593.0/54

All: 178.325 $\pm$ 0.016 χ^2 /NDF: 8877089.5/111

- sign 174.126 $\pm$ 0.022 χ^2 /NDF: 4494582.9/56

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug



Right In: -4.907 ± 4.236 $\chi^2/\text{NDF}: 18.0/29$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -5.645 ± 4.096 $\chi^2/\text{NDF}: 43.2/33$

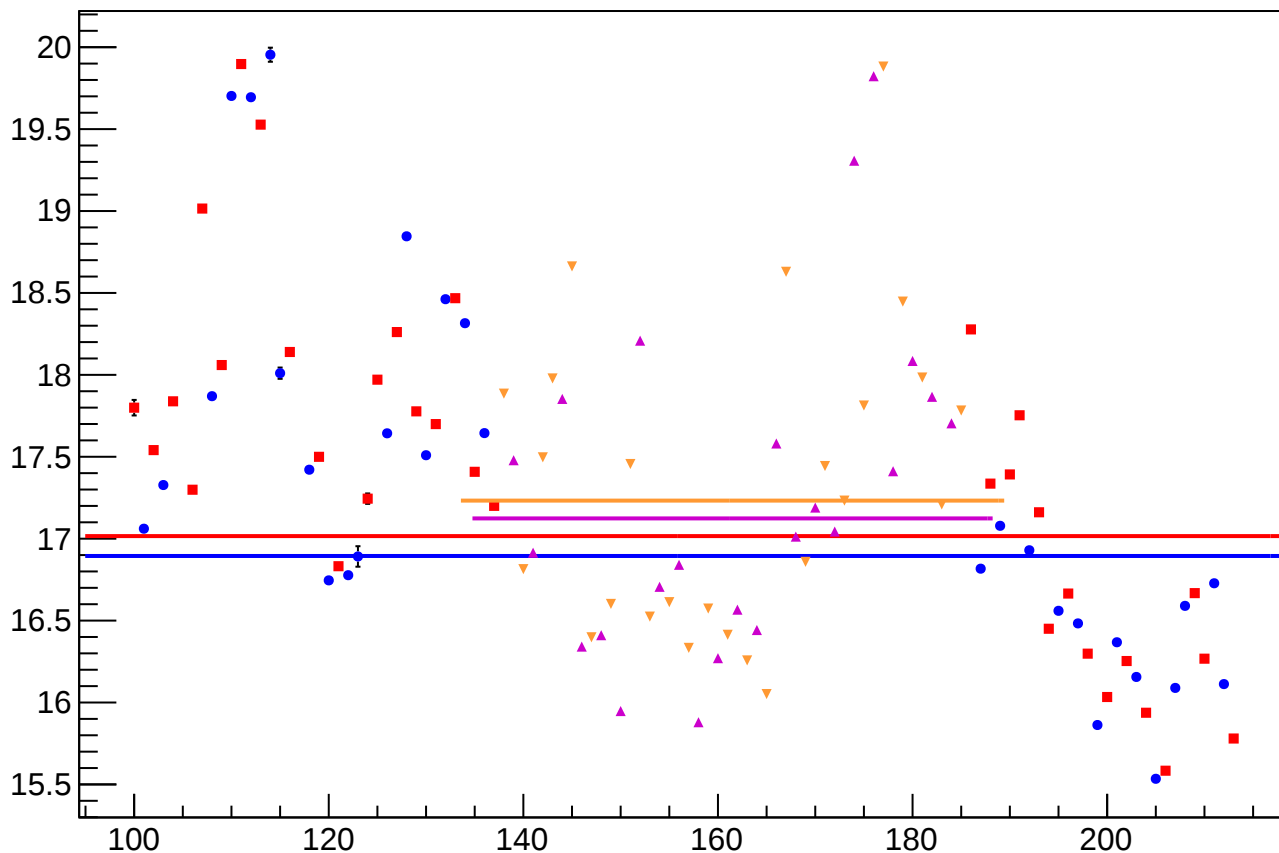
Left In: -5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

+ sign 0.659 ± 2.917 $\chi^2/\text{NDF}: 29.0/54$

All: -2.494 ± 2.059 $\chi^2/\text{NDF}: 110.9/111$

- sign -5.620 ± 2.905 $\chi^2/\text{NDF}: 79.5/56$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug



Right In: 16.894 $\pm$ 0.003 χ^2 /NDF: 102917.0/29

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF: 98701.0/24

Right Out: 17.016 $\pm$ 0.003 χ^2 /NDF: 119848.5/33

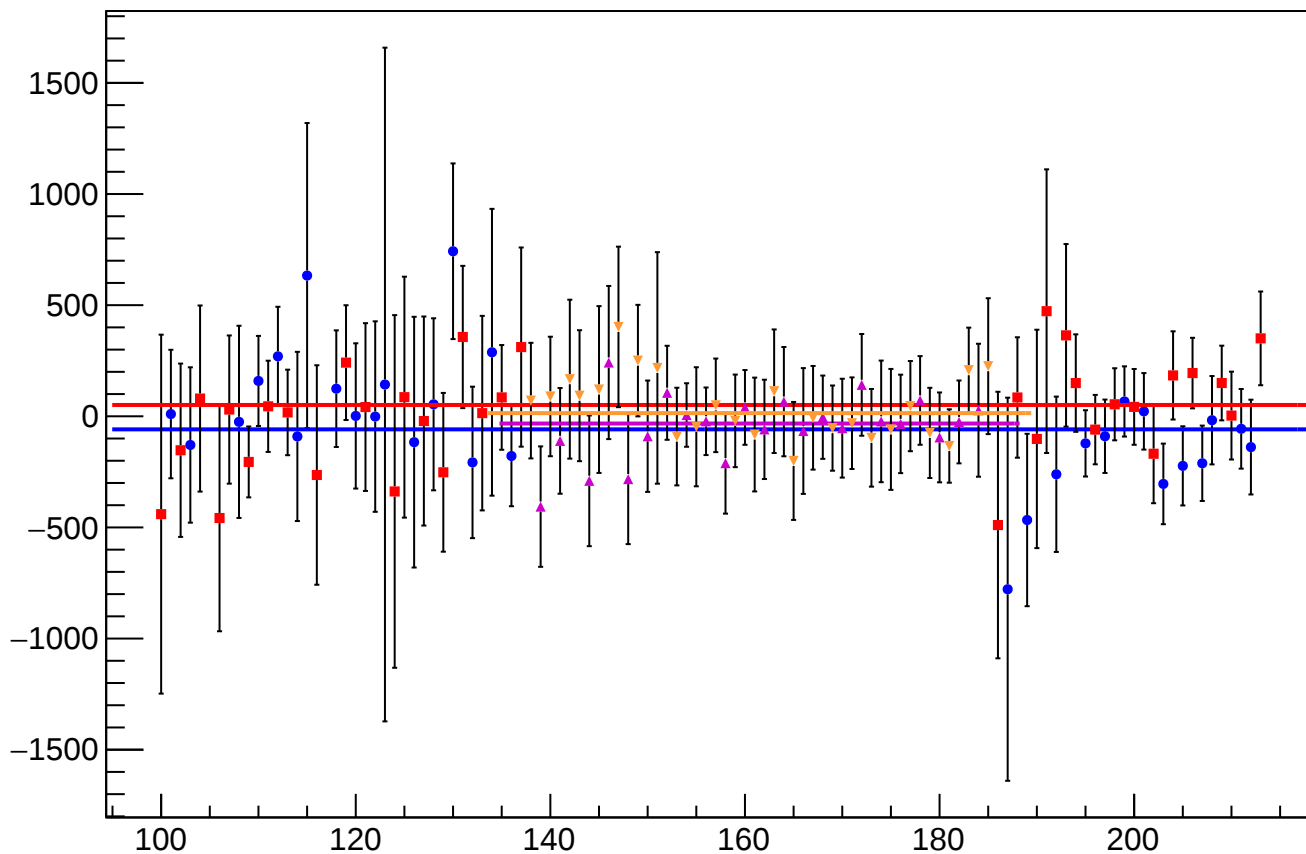
Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

+ sign 17.072 $\pm$ 0.002 χ^2 /NDF: 208311.7/54

All: 17.071 $\pm$ 0.001 χ^2 /NDF: 429598.0/111

- sign 17.069 $\pm$ 0.002 χ^2 /NDF: 221285.4/56

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug



Right In: -58.780 ± 44.609 χ^2/NDF : 16.9/29

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: 50.974 ± 43.427 χ^2/NDF : 14.8/33

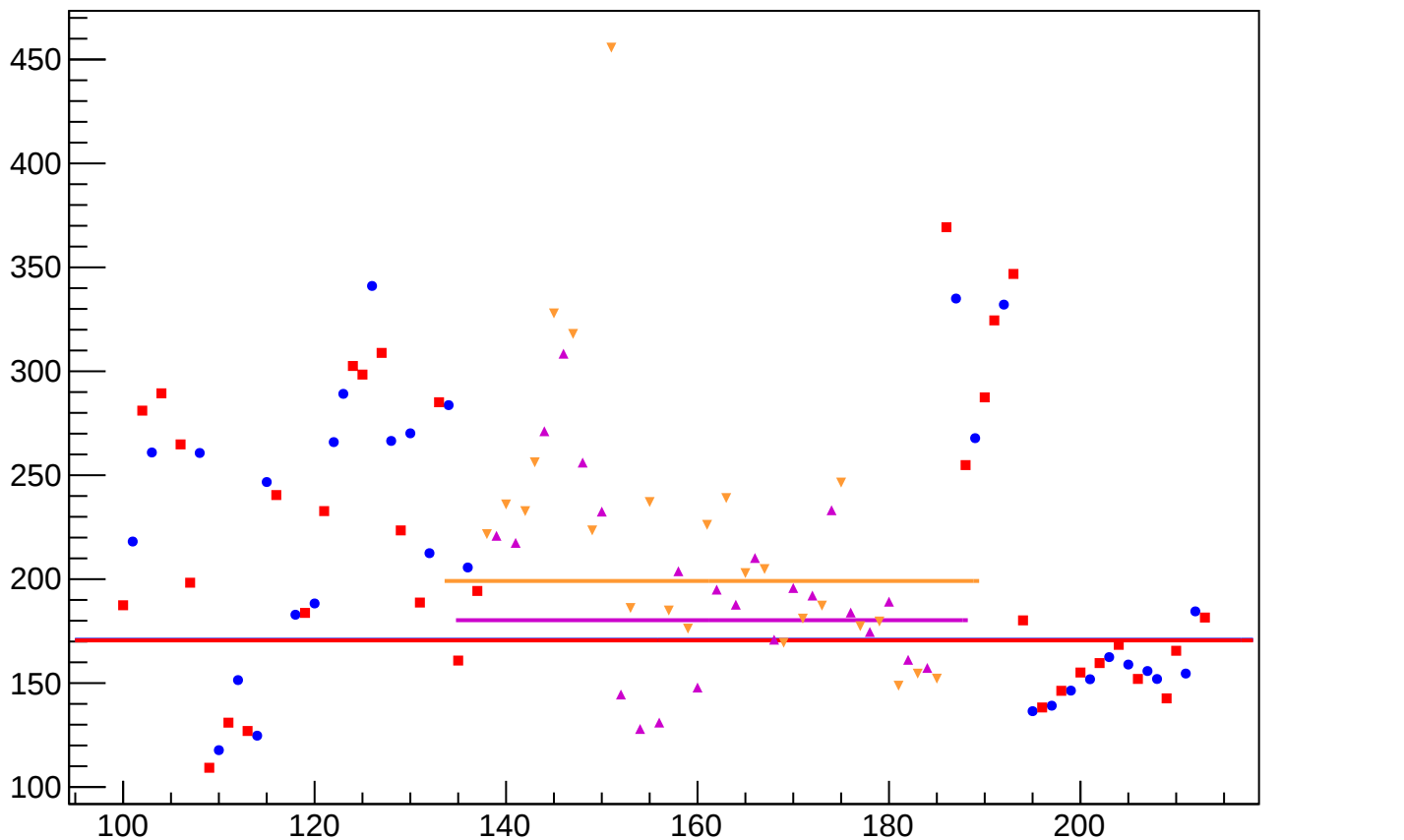
Left In: -32.571 ± 45.248 χ^2/NDF : 6.7/22

+ sign -24.982 ± 32.717 χ^2/NDF : 25.0/54

All: -6.257 ± 22.629 χ^2/NDF : 48.9/111

- sign 10.916 ± 31.331 χ^2/NDF : 23.3/56

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug



Right In: 170.825±/0.032 χ^2/NDF : 2116087.9/29

Left Out: 199.136±/0.034 χ^2/NDF :1760298.1/24

Right Out: 170.537±/0.031 χ^2/NDF : 2769515.6/33

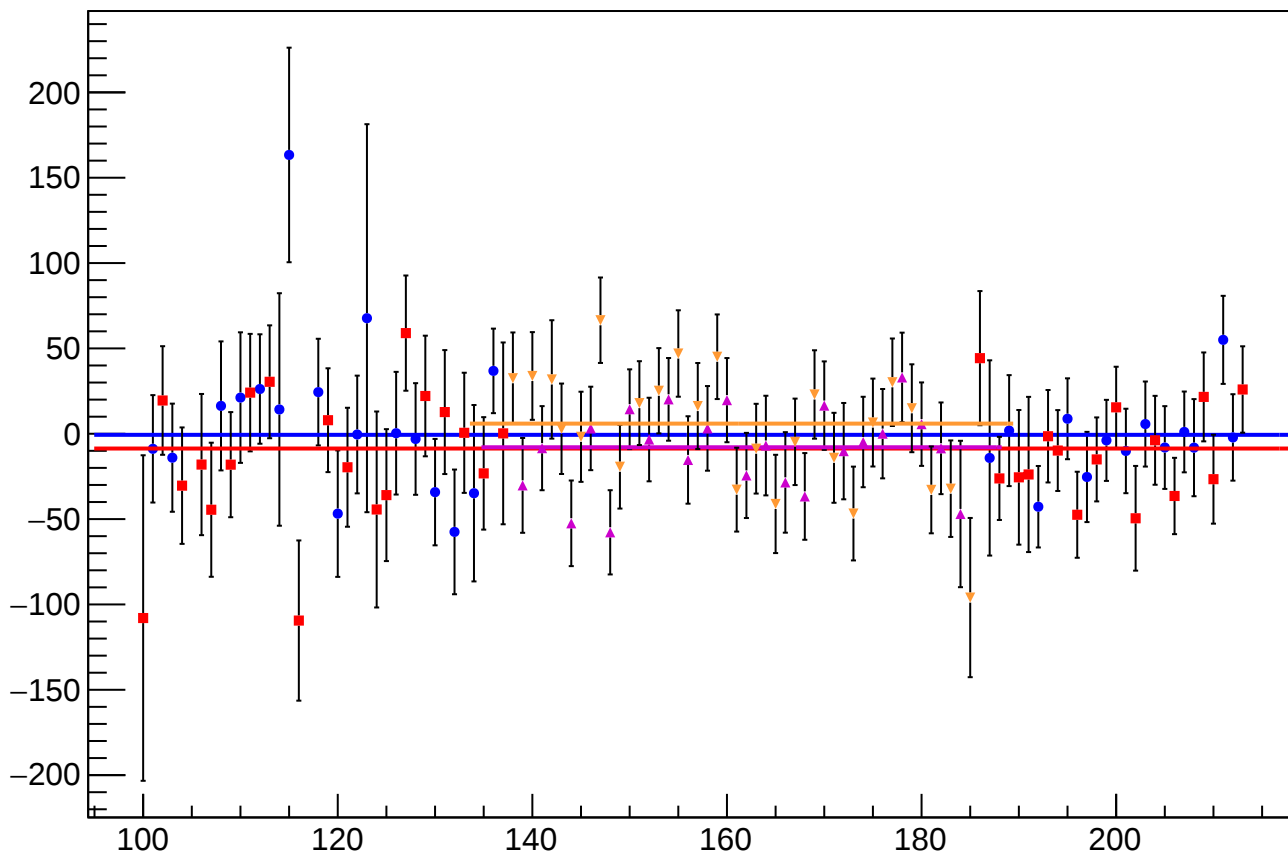
Left In: 180.256±/0.032 χ^2/NDF :1580553.5/22

+ sign 183.907±/0.023 χ^2/NDF : 4248621.0/54

All: 179.364±/0.016 χ^2/NDF : 8720669.4/111

- sign 175.197±/0.022 χ^2/NDF : 4398107.2/56

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug



Right In: -0.634 ± 5.588 χ^2/NDF : 26.5/29

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: -8.660 ± 5.384 χ^2/NDF : 30.1/33

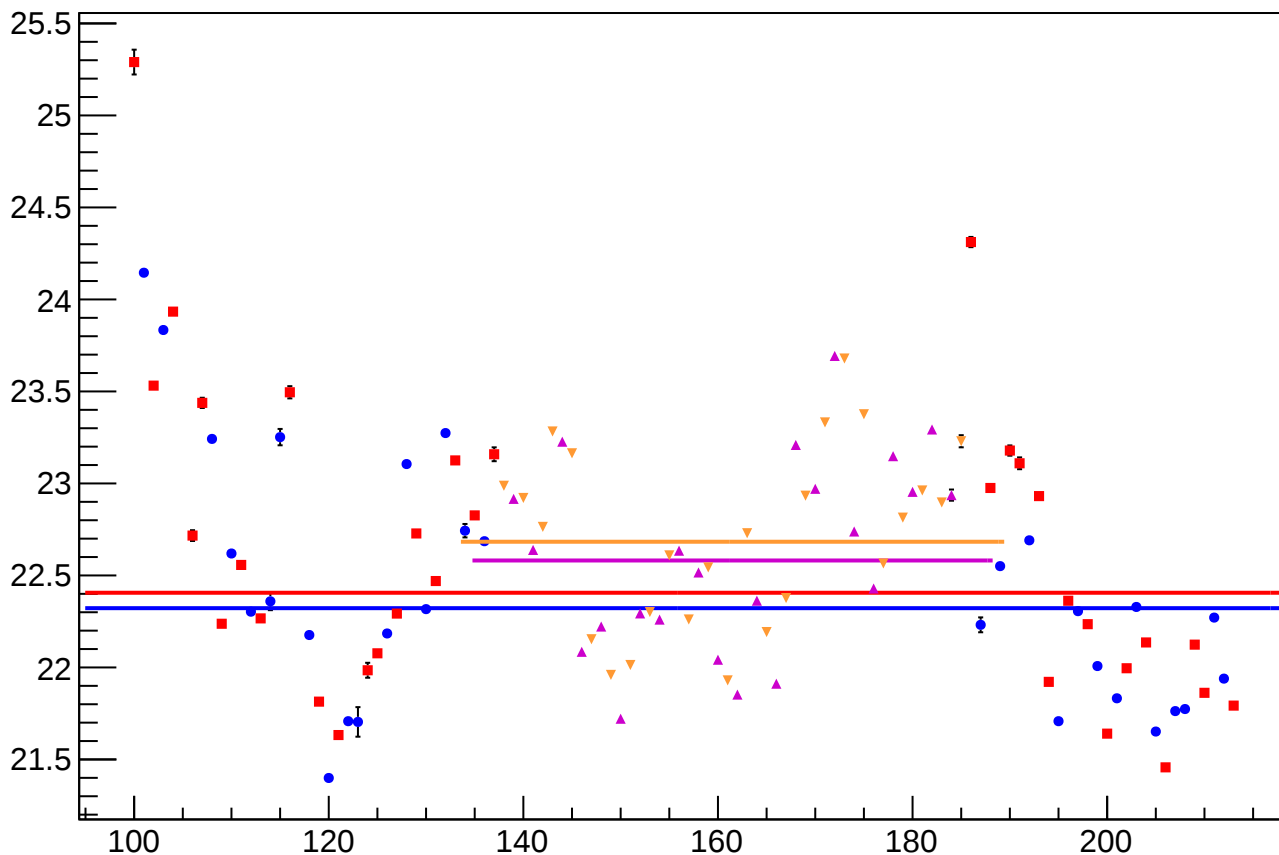
Left In: -7.915 ± 5.422 χ^2/NDF : 18.7/22

+ sign 2.835 ± 3.840 χ^2/NDF : 63.3/54

All: -2.756 ± 2.708 χ^2/NDF : 116.3/111

- sign -8.290 ± 3.820 χ^2/NDF : 48.8/56

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug



Right In: 22.322 $\pm$ 0.004 χ^2 /NDF: 25006.2/29

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.406 $\pm$ 0.004 χ^2 /NDF: 32065.7/33

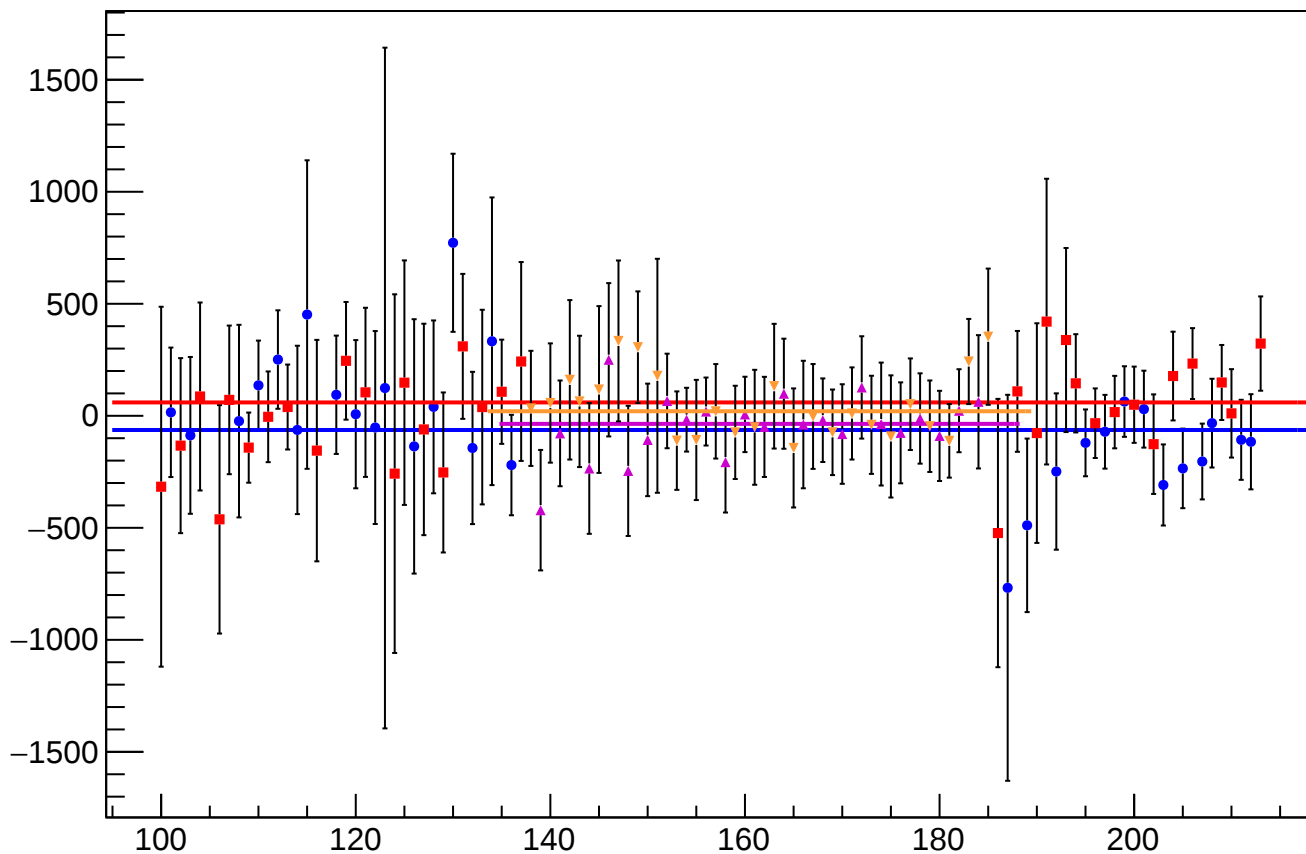
Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

+ sign 22.513 $\pm$ 0.003 χ^2 /NDF: 45733.2/54

All: 22.503 $\pm$ 0.002 χ^2 /NDF: 96783.5/111

- sign 22.493 $\pm$ 0.003 χ^2 /NDF: 51023.8/56

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug



Right In: -63.344 ± 44.480 χ^2/NDF : 16.4/29

Left Out: 20.306 ± 48.049 χ^2/NDF : 7.7/24

Right Out: 59.705 ± 43.245 χ^2/NDF : 12.4/33

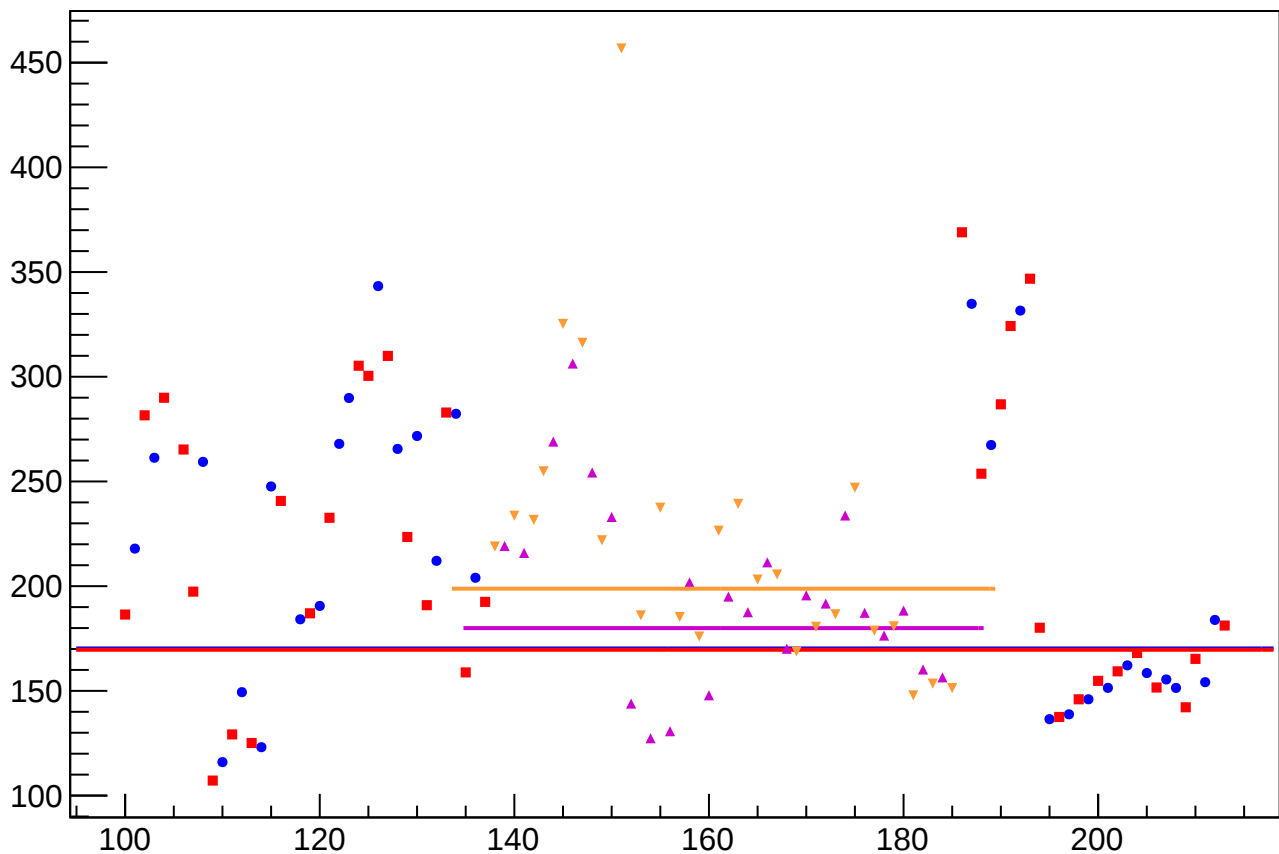
Left In: -35.996 ± 45.180 χ^2/NDF : 6.1/22

+ sign -24.740 ± 32.641 χ^2/NDF : 25.7/54

All: -4.548 ± 22.569 χ^2/NDF : 47.3/111

- sign 13.948 ± 31.241 χ^2/NDF : 20.8/56

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug



Right In: 170.259 $\pm$ 0.031 χ^2 /NDF: 2145495.2/29

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 169.633 $\pm$ 0.031 χ^2 /NDF: 2836704.8/33

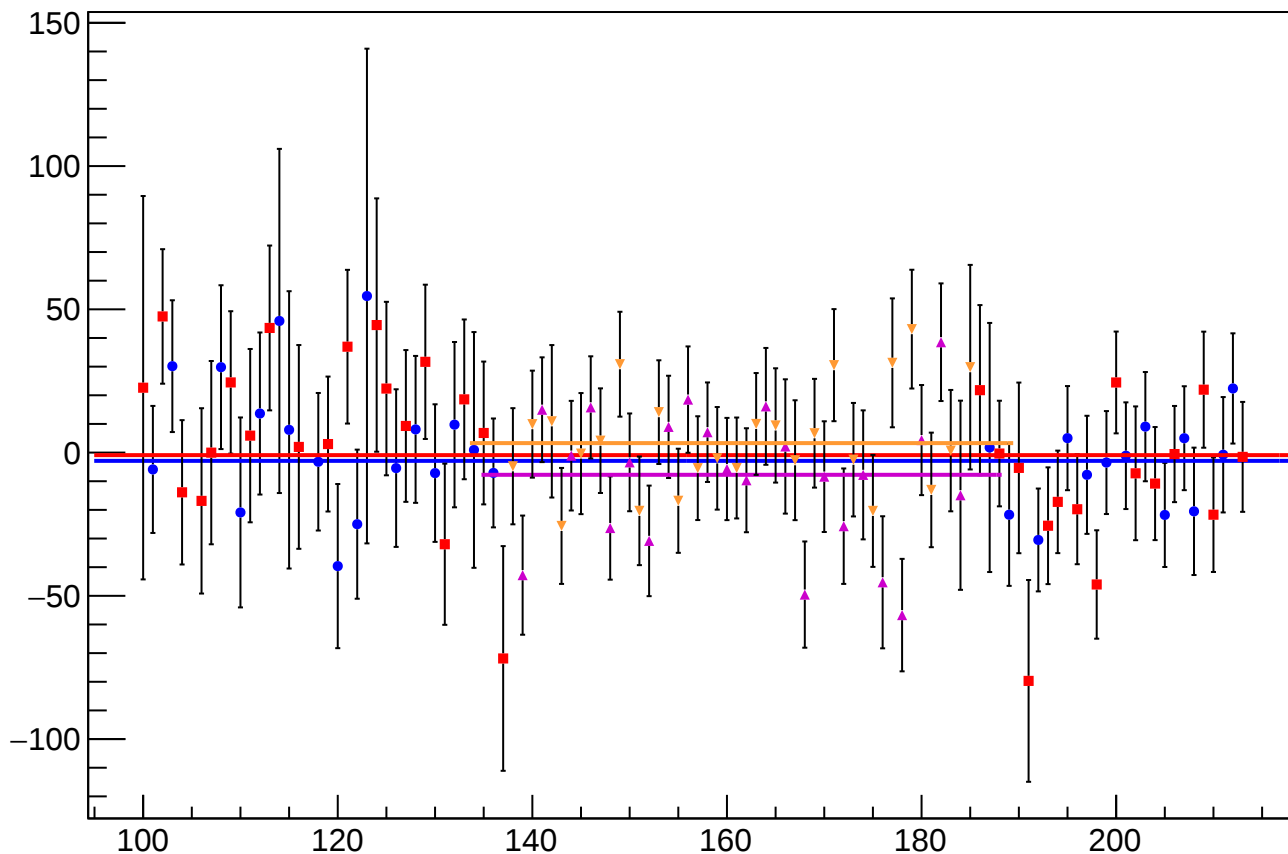
Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

+ sign 183.423 $\pm$ 0.023 χ^2 /NDF: 4283566.8/54

All: 178.806 $\pm$ 0.016 χ^2 /NDF: 8827498.9/111

- sign 174.577 $\pm$ 0.022 χ^2 /NDF: 4467255.8/56

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug



Right In: -2.887 ± 4.290 χ^2/NDF : 15.3/29

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -0.893 ± 4.135 χ^2/NDF : 38.0/33

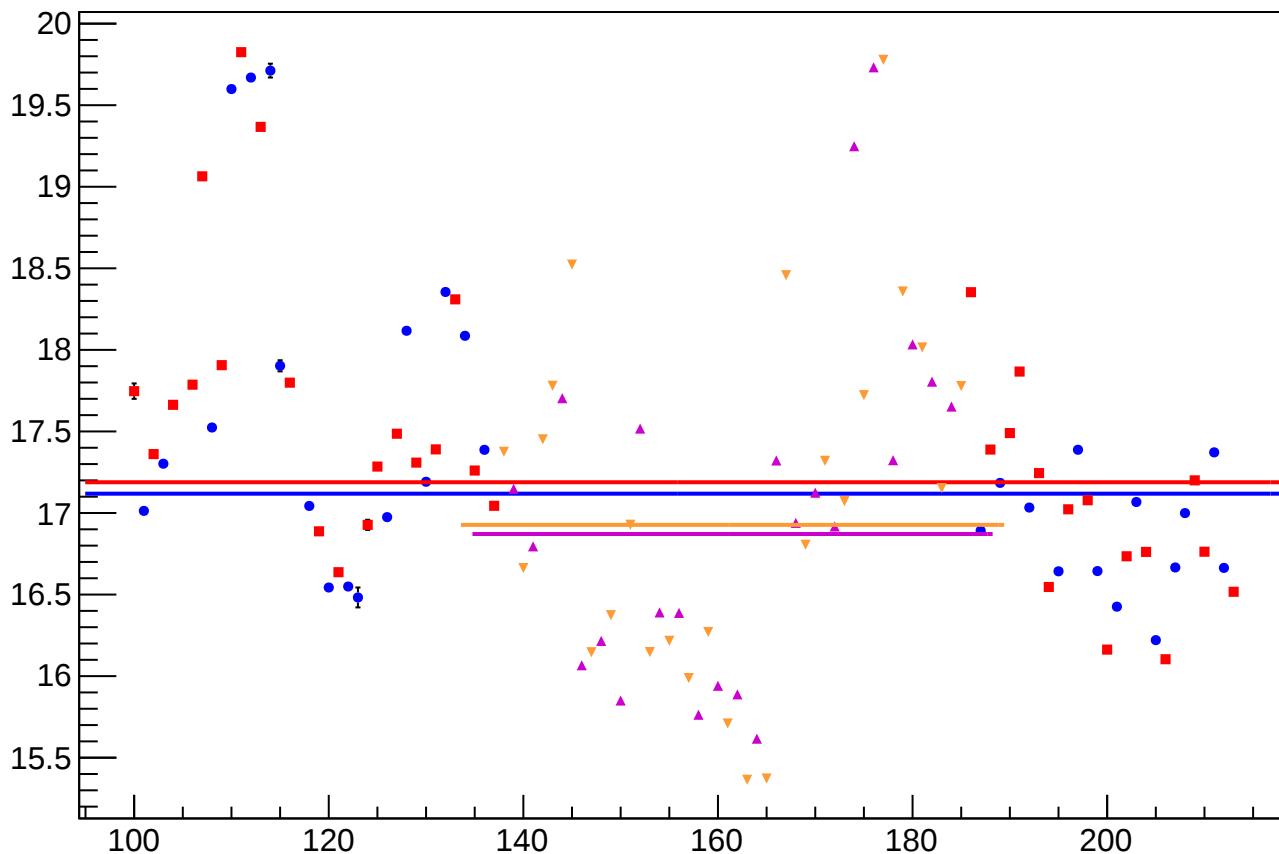
Left In: -7.756 ± 4.061 χ^2/NDF : 34.3/22

+ sign 0.462 ± 2.907 χ^2/NDF : 35.1/54

All: -1.971 ± 2.052 χ^2/NDF : 110.2/111

- sign -4.387 ± 2.897 χ^2/NDF : 73.7/56

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug



Right In: 17.118 $\pm$ 0.003 χ^2 /NDF: 56095.8/29

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.189 $\pm$ 0.003 χ^2 /NDF: 69514.2/33

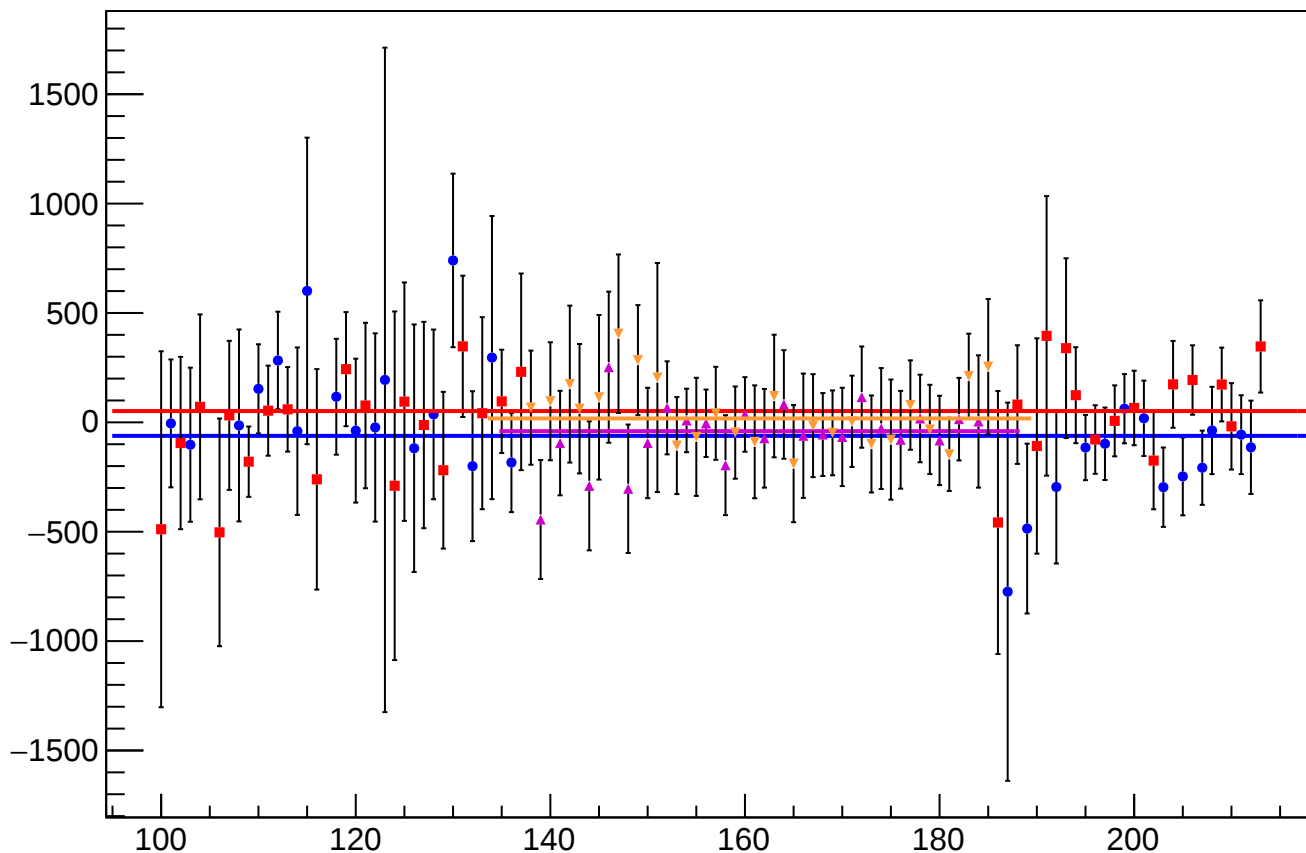
Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

+ sign 17.015 $\pm$ 0.002 χ^2 /NDF: 196777.5/54

All: 17.021 $\pm$ 0.001 χ^2 /NDF: 390297.3/111

- sign 17.027 $\pm$ 0.002 χ^2 /NDF: 193502.9/56

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug



Right In: -61.800 ± 44.740 χ^2/NDF : 16.8/29

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: 51.639 ± 43.565 χ^2/NDF : 13.8/33

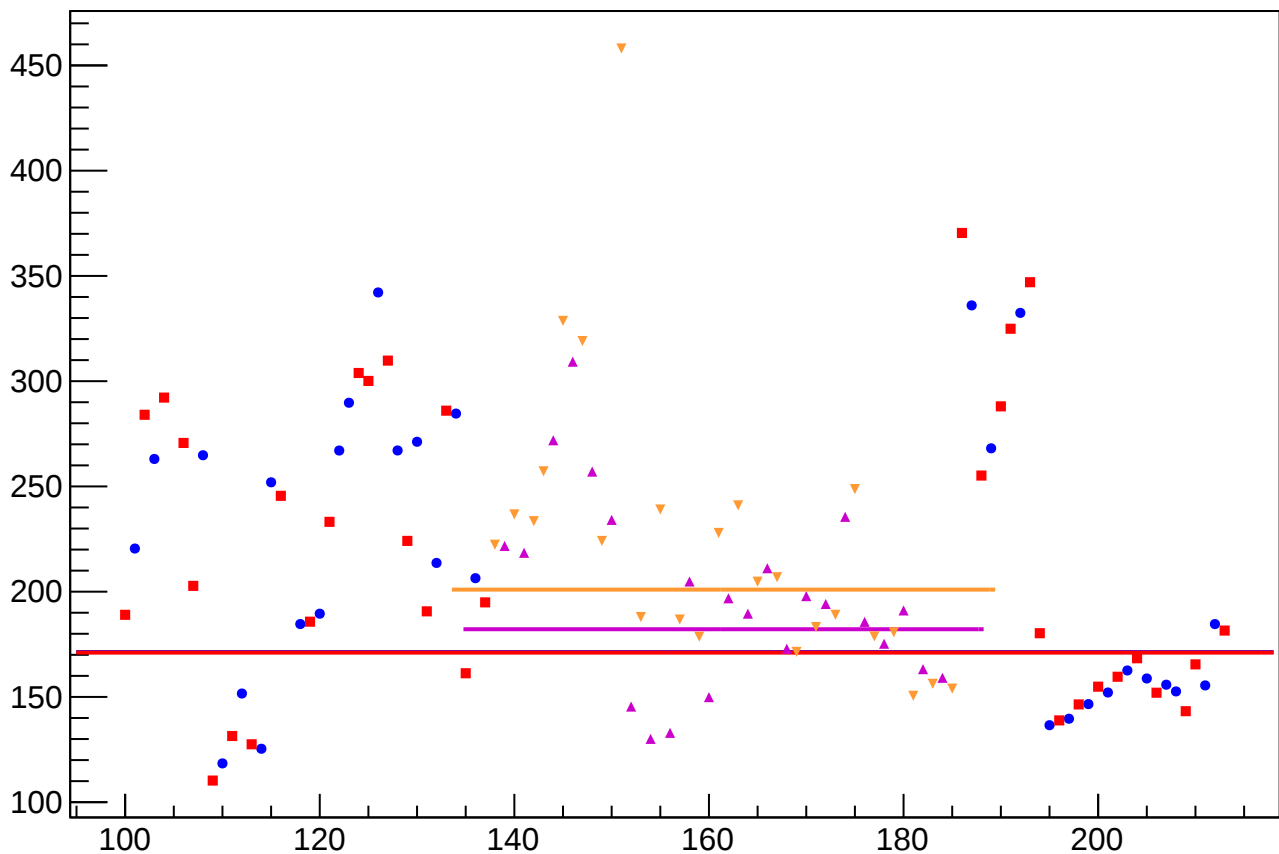
Left In: -40.355 ± 45.689 χ^2/NDF : 6.6/22

+ sign -25.230 ± 32.900 χ^2/NDF : 25.7/54

All: -7.997 ± 22.764 χ^2/NDF : 48.8/111

- sign 7.830 ± 31.529 χ^2/NDF : 22.6/56

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 171.297 ± 0.032 χ^2/NDF : 2130282.7/29

Left Out: 200.985 ± 0.034 χ^2/NDF : 1727291.4/24

Right Out: 171.079 ± 0.031 χ^2/NDF : 2779746.7/33

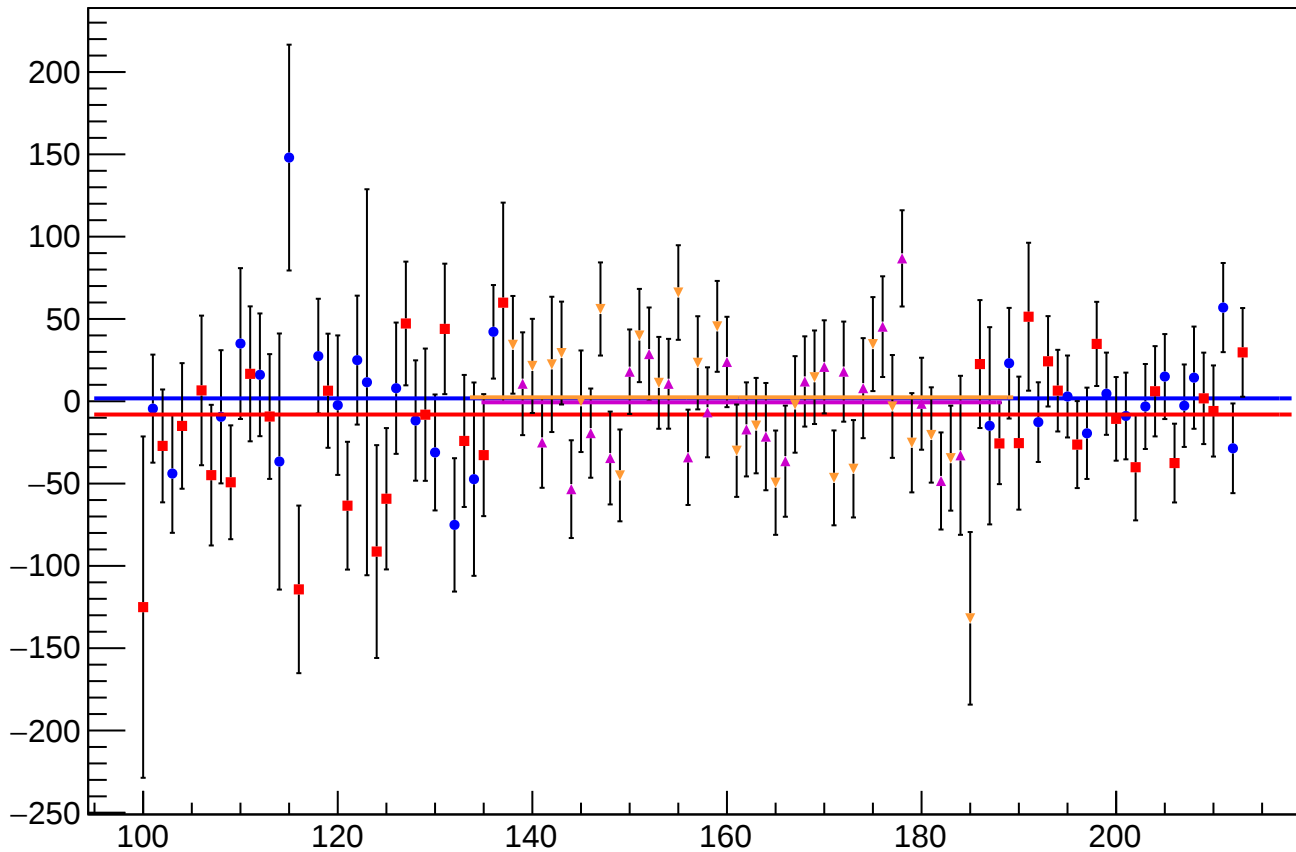
Left In: 182.158 ± 0.032 χ^2/NDF : 1535922.8/22

+ sign 184.931 ± 0.023 χ^2/NDF : 4262030.3/54

All: 180.461 ± 0.016 χ^2/NDF : 8710137.6/111

- sign 176.355 ± 0.022 χ^2/NDF : 4377266.8/56

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 1.756 ± 6.032 χ^2/NDF : 22.9/29

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: -8.051 ± 5.781 χ^2/NDF : 32.6/33

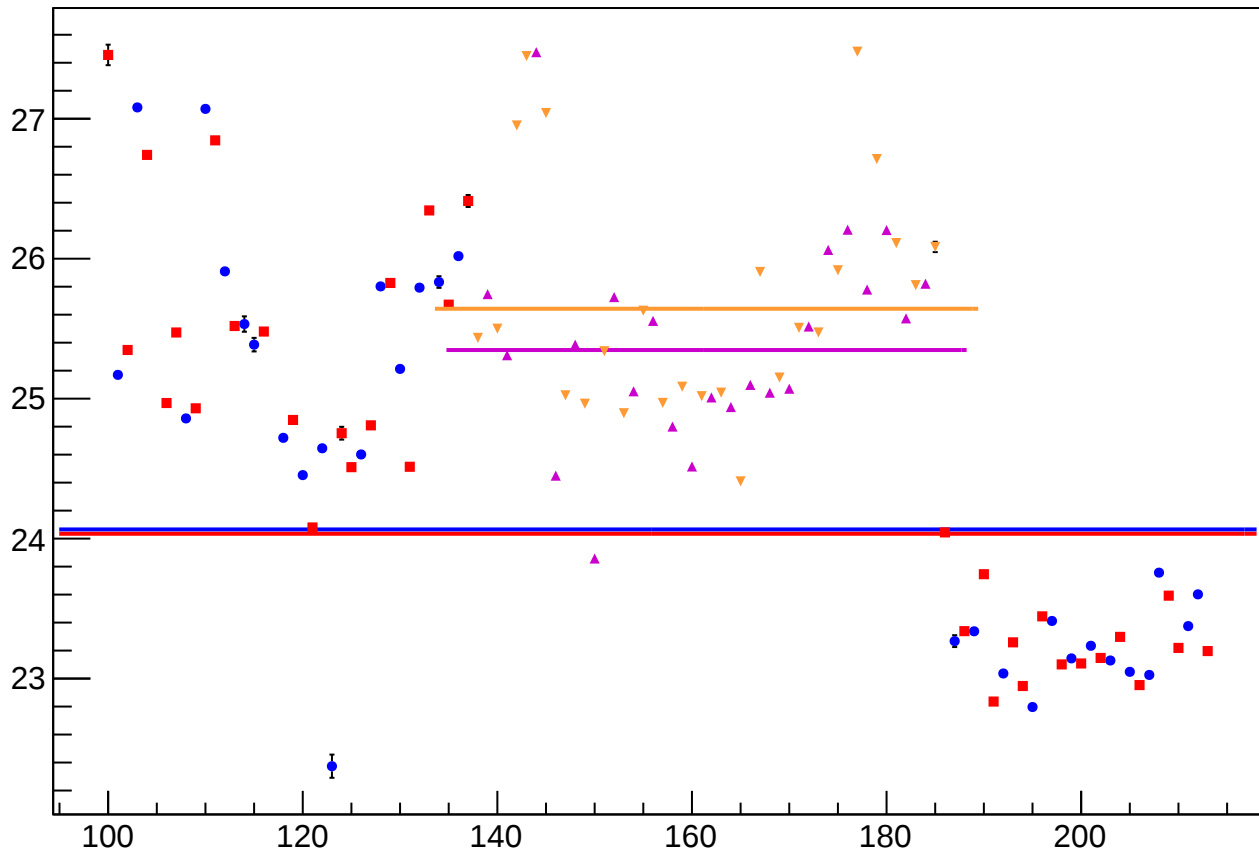
Left In: -0.641 ± 6.091 χ^2/NDF : 27.3/22

+ sign 2.076 ± 4.247 χ^2/NDF : 62.1/54

All: -1.274 ± 2.984 χ^2/NDF : 124.0/111

- sign -4.540 ± 4.193 χ^2/NDF : 60.7/56

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 24.065 $\pm$ 0.004 χ^2 /NDF: 82811.3/29

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 24.035 $\pm$ 0.004 χ^2 /NDF: 80135.7/33

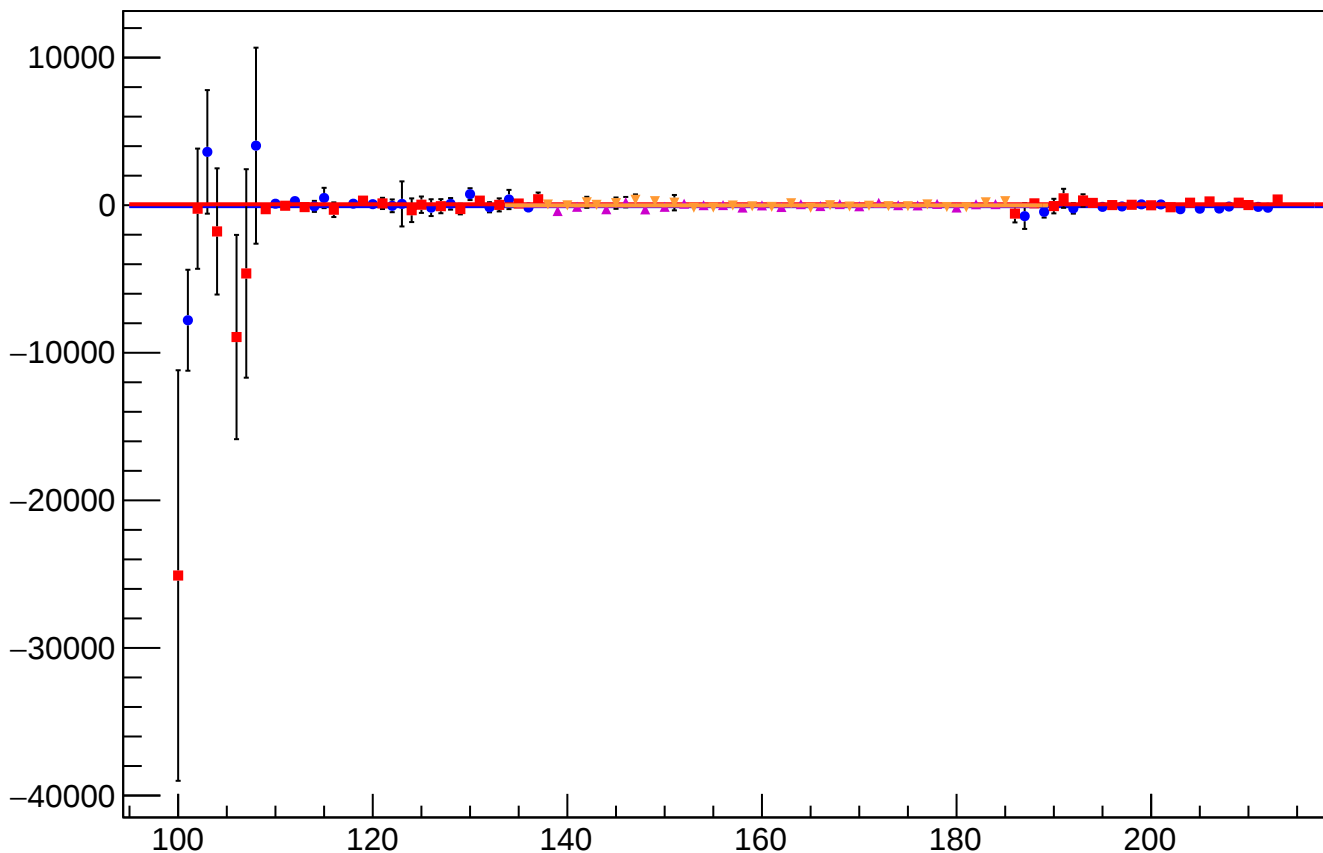
Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

+ sign 24.861 $\pm$ 0.003 χ^2 /NDF: 186540.7/54

All: 24.757 $\pm$ 0.002 χ^2 /NDF: 347285.6/111

- sign 24.657 $\pm$ 0.003 χ^2 /NDF: 158406.8/56

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug



Right In: -65.537 ± 46.728 χ^2/NDF : 21.8/29

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: 62.231 ± 46.200 χ^2/NDF : 20.6/33

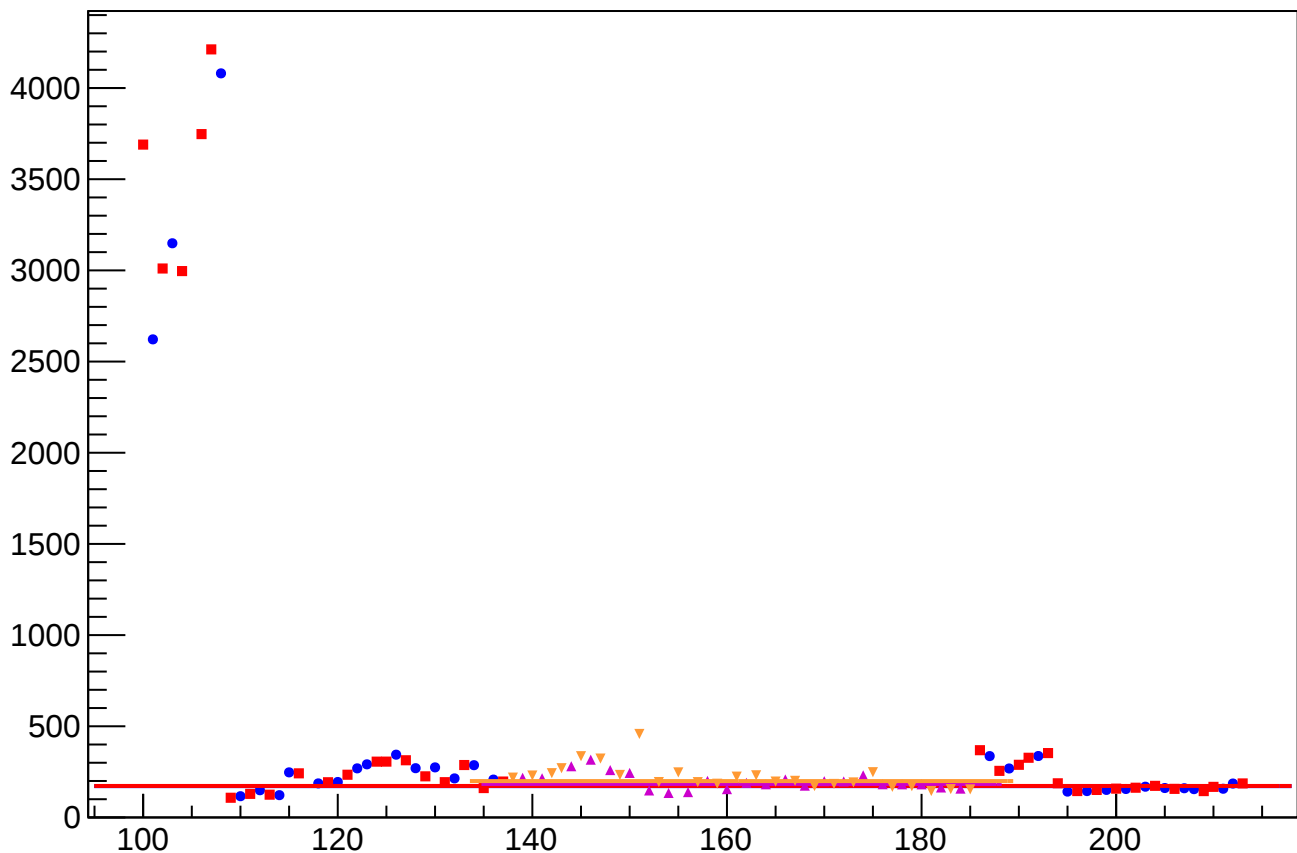
Left In: -27.098 ± 45.999 χ^2/NDF : 7.2/22

+ sign -39.359 ± 33.571 χ^2/NDF : 30.4/54

All: -10.158 ± 23.386 χ^2/NDF : 61.6/111

- sign 17.371 ± 32.597 χ^2/NDF : 29.7/56

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug



Right In: 171.712 $\pm$ 0.033 χ^2 /NDF: 4526125.6/29

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 172.719 $\pm$ 0.033 χ^2 /NDF: 5402238.0/33

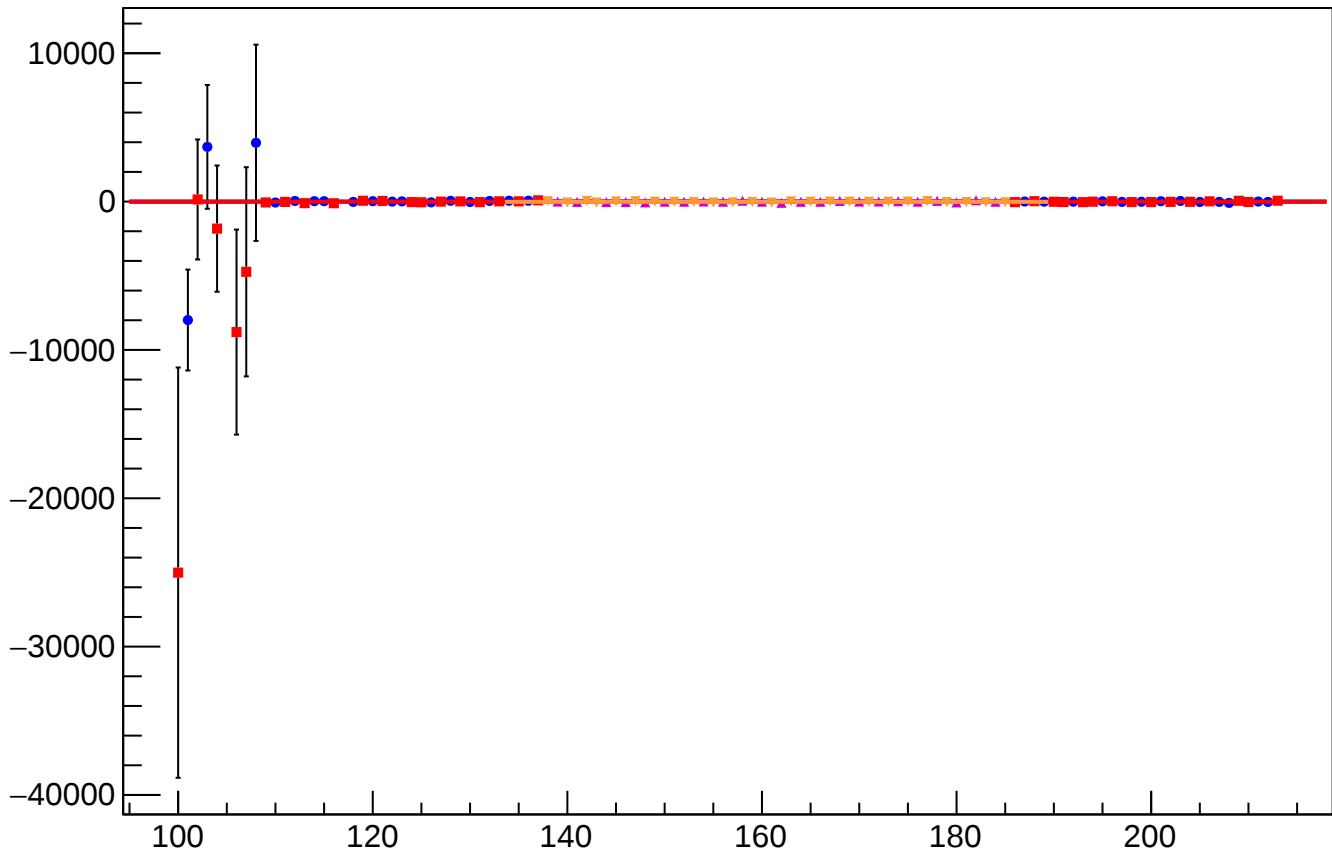
Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

+ sign 185.127 $\pm$ 0.024 χ^2 /NDF: 6744669.4/54

All: 181.606 $\pm$ 0.017 χ^2 /NDF: 13660352.7/136

- sign 178.286 $\pm$ 0.023 χ^2 /NDF: 6872939.0/56

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug



Right In: -1.649 ± 7.221 χ^2/NDF : 30.1/29

Left Out: -18.118 ± 6.704 χ^2/NDF : 21.7/24

Right Out: -5.536 ± 7.033 χ^2/NDF : 38.1/33

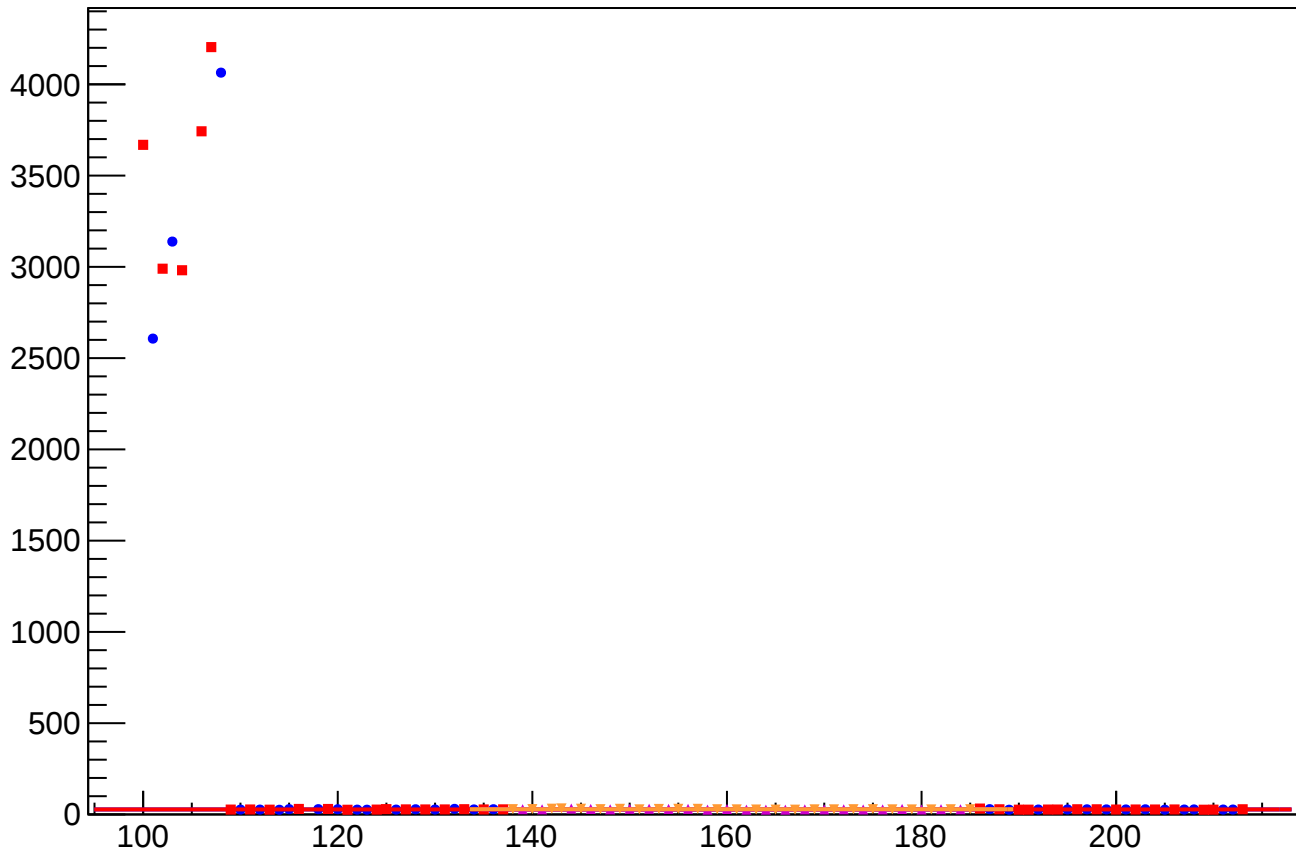
Left In: -1.267 ± 6.908 χ^2/NDF : 32.0/22

+ sign -10.494 ± 4.913 χ^2/NDF : 54.6/54

All: -6.940 ± 3.479 χ^2/NDF : 126.0/111

- sign -3.363 ± 4.928 χ^2/NDF : 70.3/56

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug



Right In: 27.430 $\pm$ 0.005 χ^2 /NDF: 3041863.0/29

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.471 $\pm$ 0.005 χ^2 /NDF: 3513783.2/33

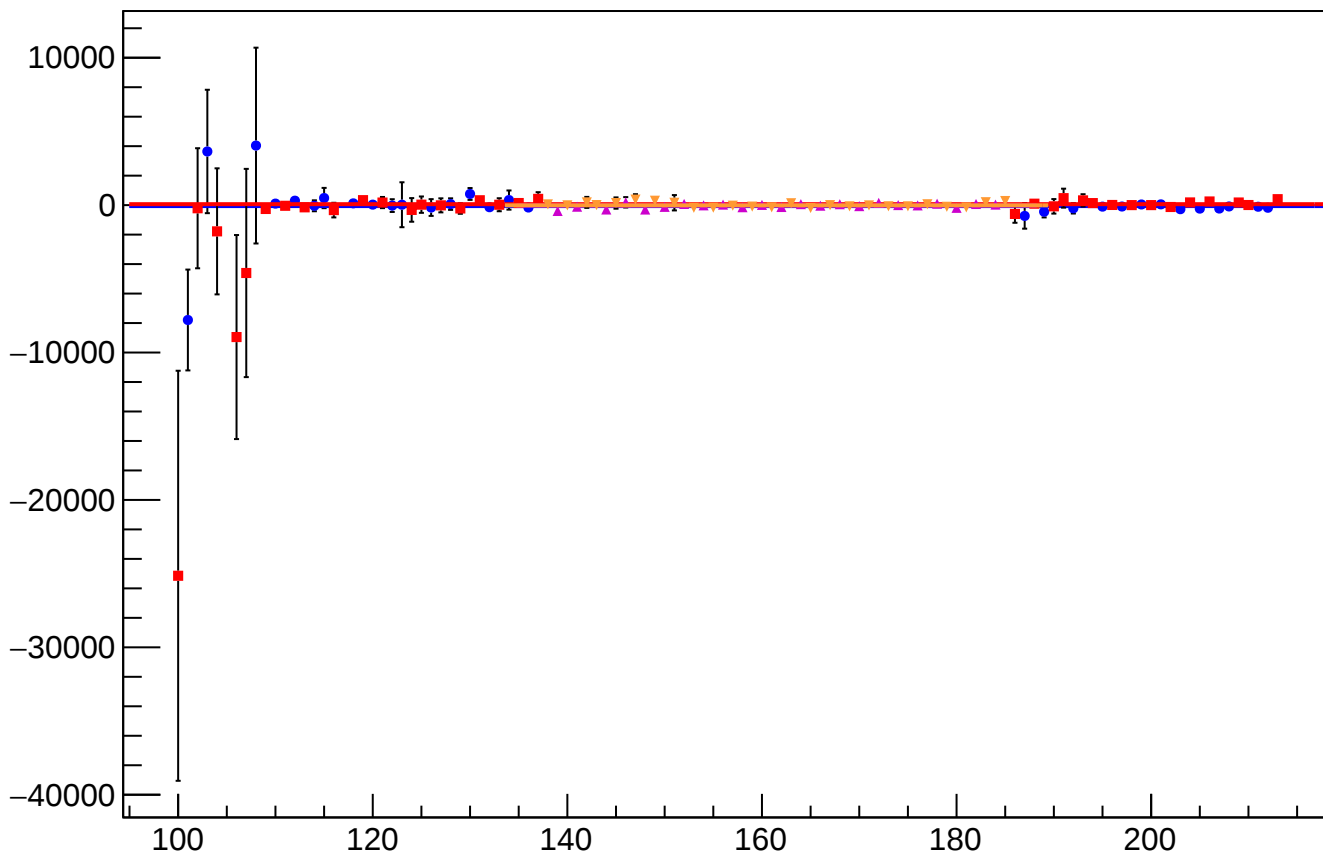
Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

+ sign 28.109 $\pm$ 0.003 χ^2 /NDF: 3185213.9/54

All: 28.097 $\pm$ 0.002 χ^2 /NDF: 6852758.5/111

- sign 28.085 $\pm$ 0.003 χ^2 /NDF: 3667520.4/56

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug



Right In: -64.298 ± 46.586 χ^2/NDF : 22.1/29

Left Out: -13.878 ± 48.155 χ^2/NDF : 8.8/24

Right Out: 64.714 ± 46.066 χ^2/NDF : 21.5/33

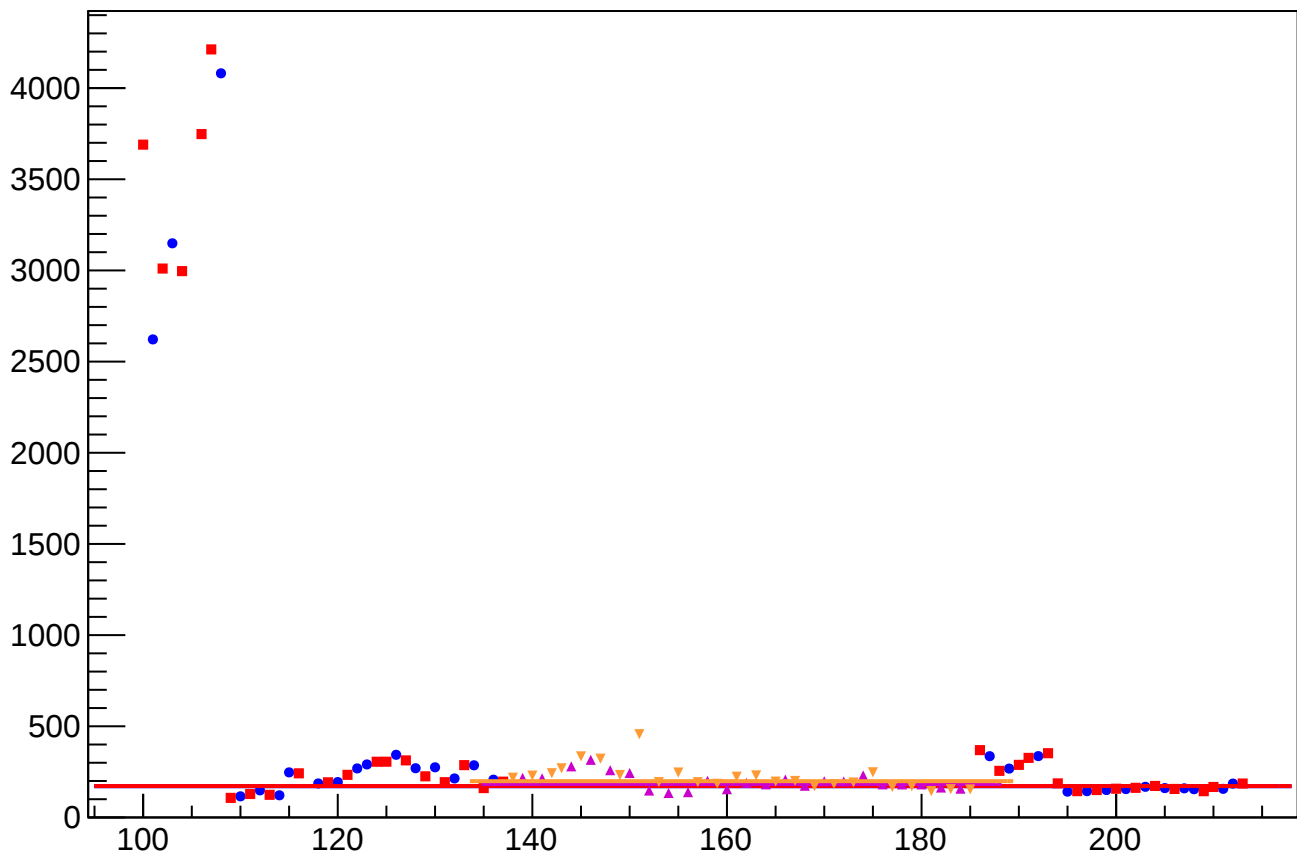
Left In: -27.286 ± 45.907 χ^2/NDF : 7.5/22

+ sign -39.923 ± 33.482 χ^2/NDF : 31.5/54

All: -9.830 ± 23.327 χ^2/NDF : 64.1/111

- sign 18.554 ± 32.517 χ^2/NDF : 31.0/56

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug



Right In: 171.148 $\pm$ 0.033 χ^2 /NDF: 4539470.6/29

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 172.167 $\pm$ 0.033 χ^2 /NDF: 5420056.4/33

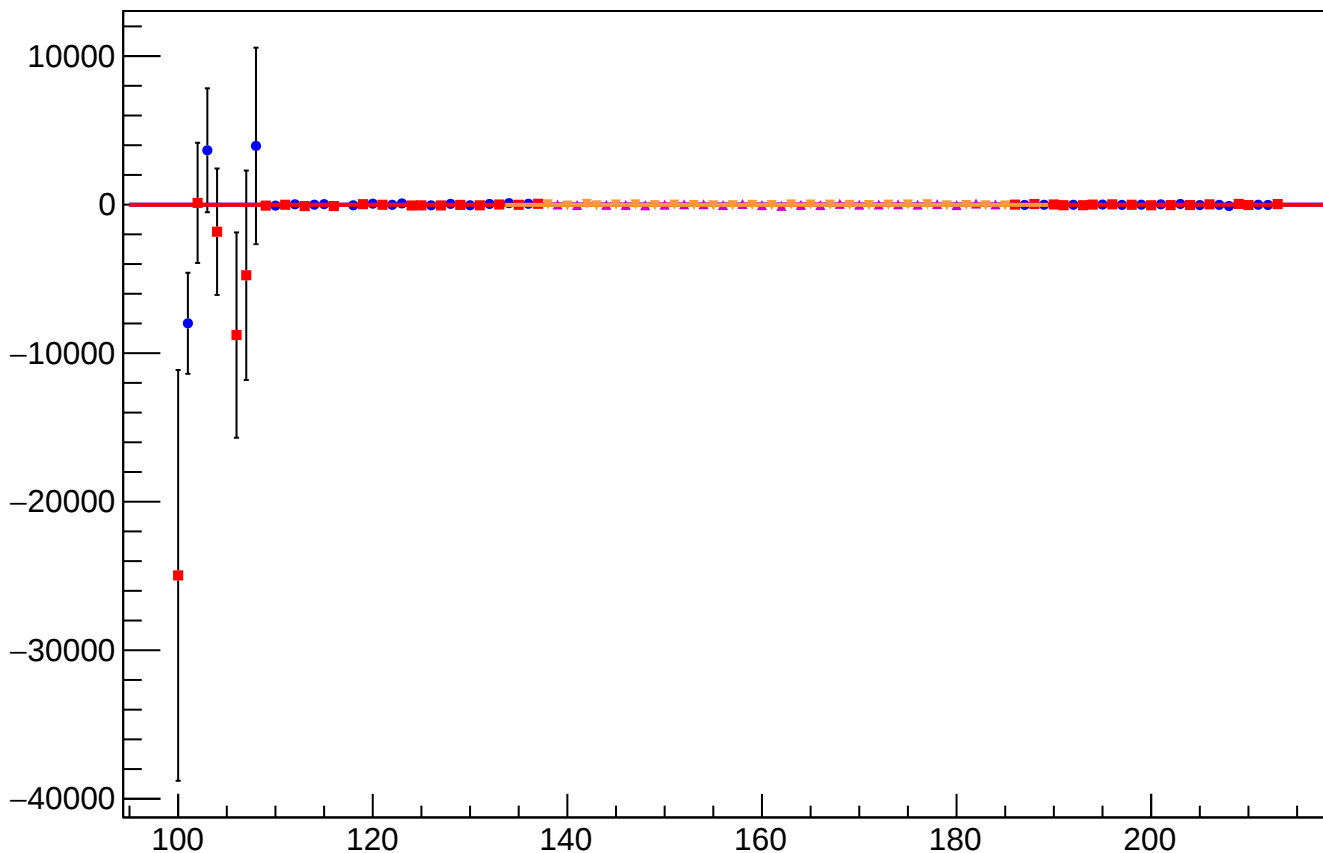
Left In: 183.442 $\pm$ 0.032 χ^2 /NDF: 1412341.8/22

+ sign 184.611 $\pm$ 0.024 χ^2 /NDF: 6762615.2/54

All: 181.118 $\pm$ 0.016 χ^2 /NDF: 13697408.7/13

- sign 177.824 $\pm$ 0.023 χ^2 /NDF: 6892502.0/56

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug



Right In: -3.338 ± 7.188 χ^2/NDF : 34.5/29

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: -9.140 ± 7.010 χ^2/NDF : 32.7/33

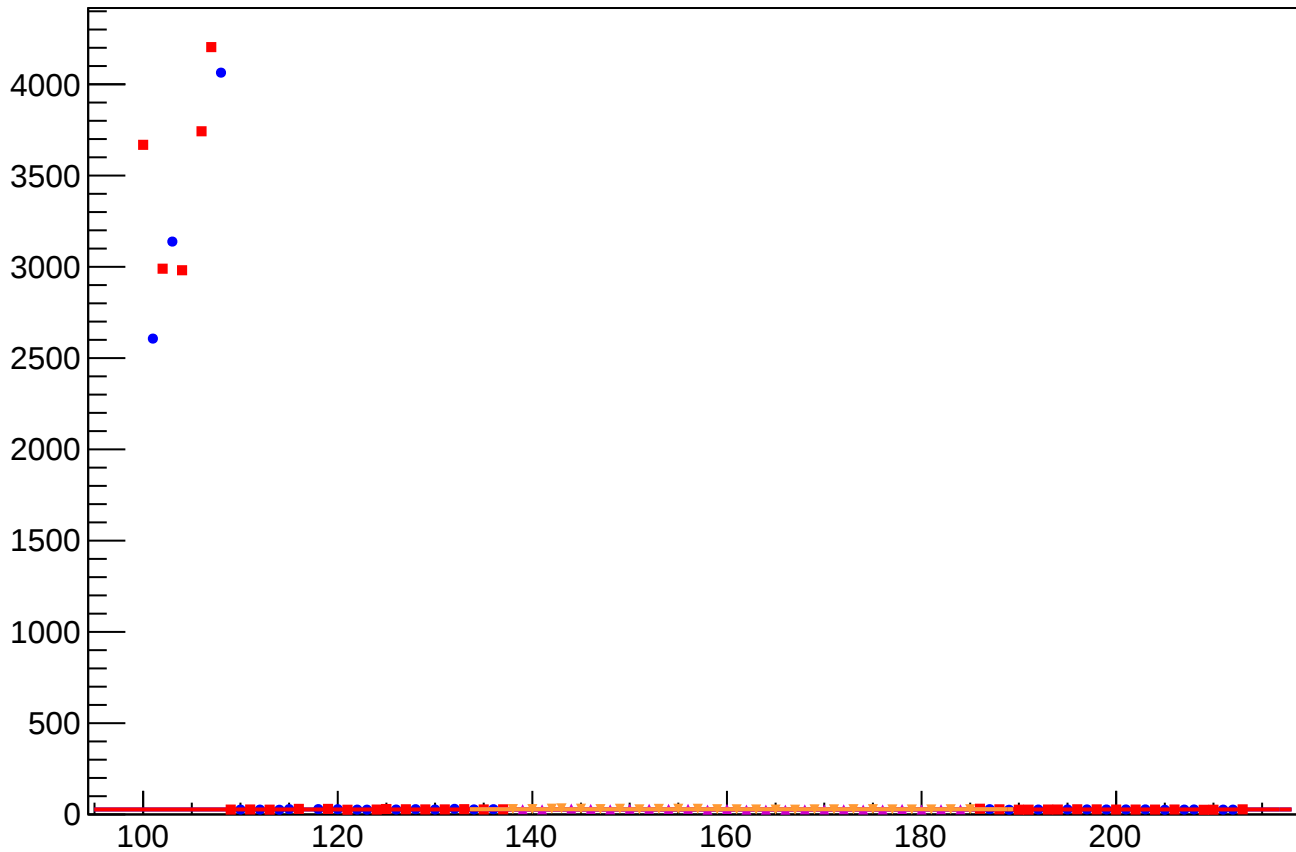
Left In: 0.498 ± 6.937 χ^2/NDF : 26.1/22

+ sign -9.992 ± 4.914 χ^2/NDF : 52.6/54

All: -7.141 ± 3.481 χ^2/NDF : 113.0/111

- sign -4.270 ± 4.931 χ^2/NDF : 59.7/56

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug



Right In: 27.302 $\pm$ 0.005 χ^2 /NDF: 3049891.9/29

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.381 $\pm$ 0.005 χ^2 /NDF: 3517364.9/33

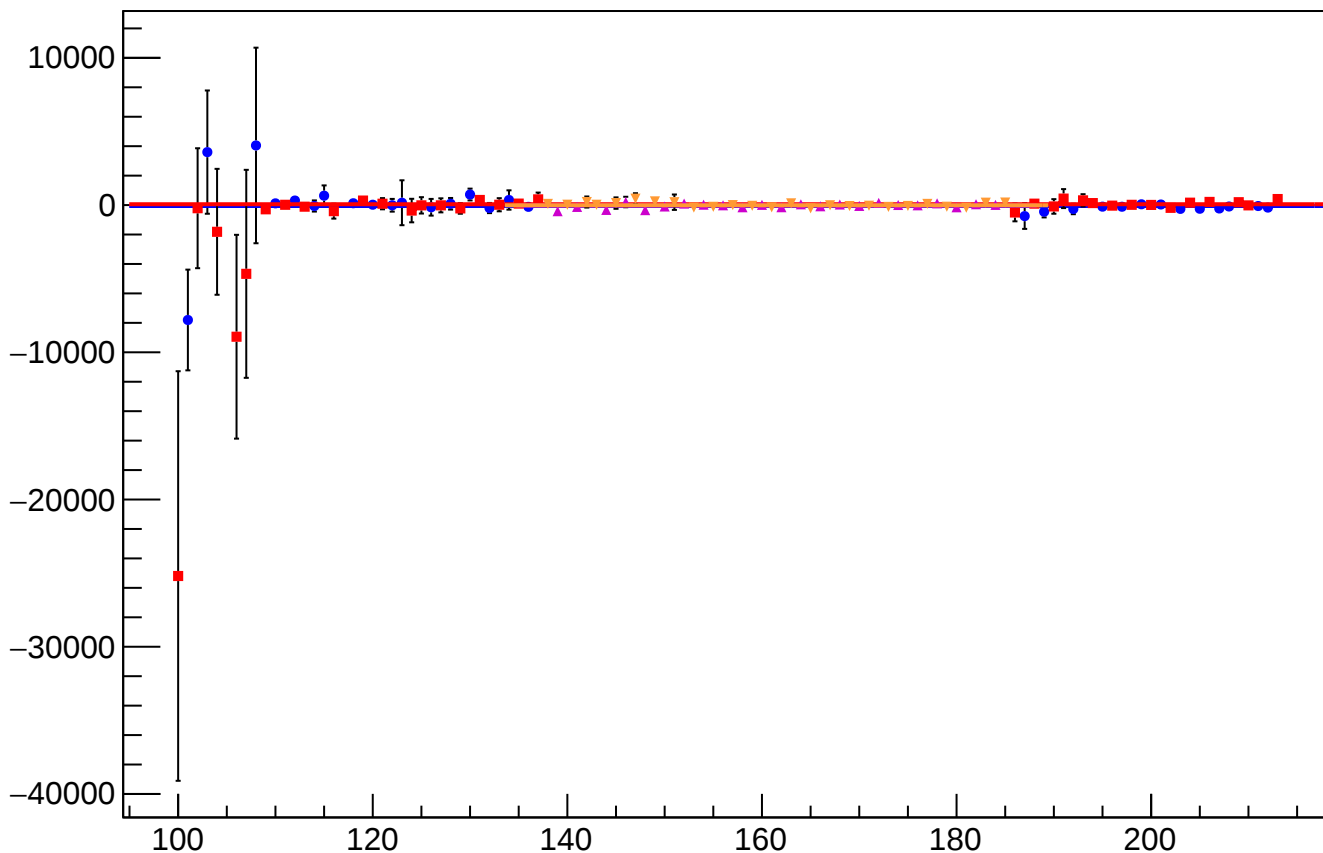
Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

+ sign 28.107 $\pm$ 0.003 χ^2 /NDF: 3219215.4/54

All: 28.102 $\pm$ 0.002 χ^2 /NDF: 6906105.2/111

- sign 28.097 $\pm$ 0.003 χ^2 /NDF: 3686885.0/56

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug



Right In: -62.908 ± 46.909 χ^2/NDF : 22.3/29

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: 57.336 ± 46.398 χ^2/NDF : 21.0/33

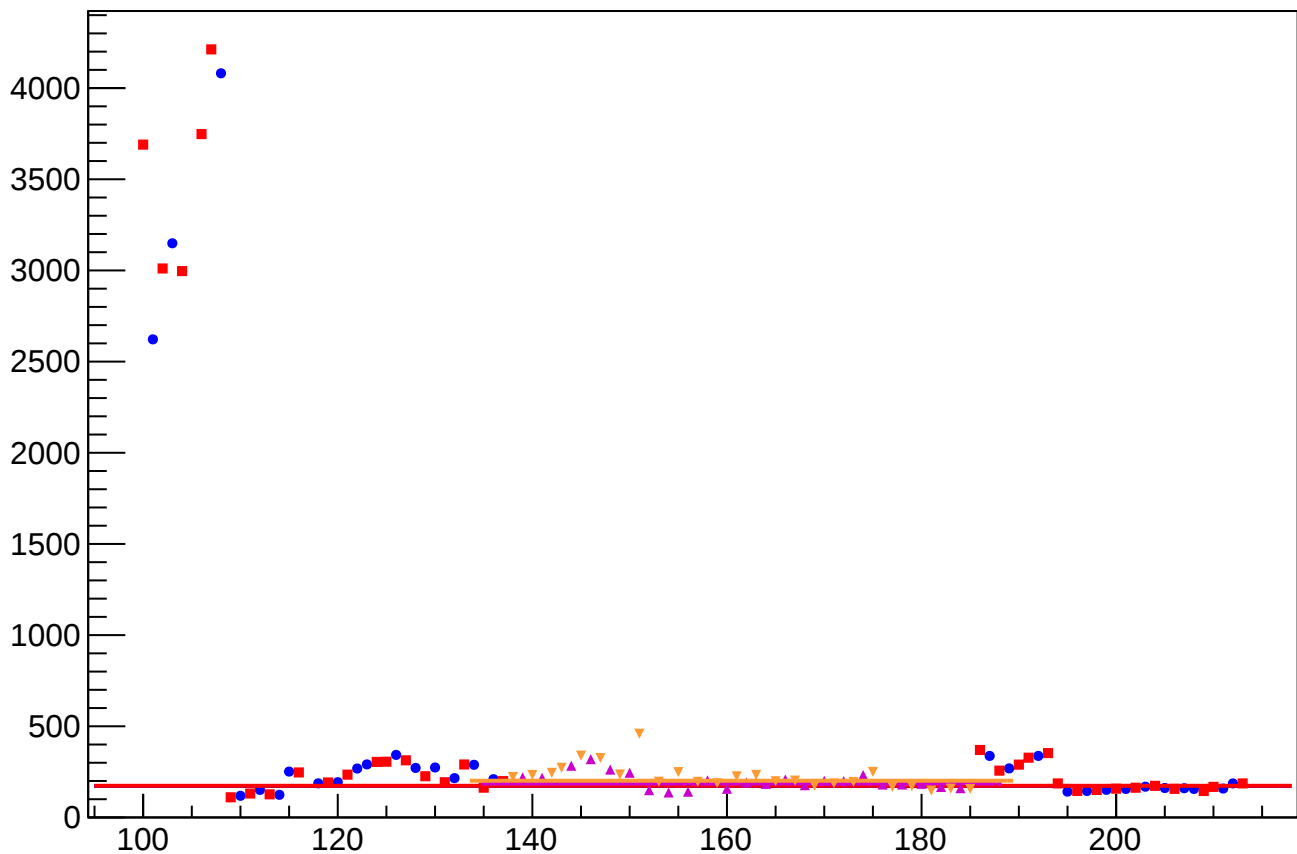
Left In: -31.477 ± 46.483 χ^2/NDF : 7.8/22

+ sign -39.371 ± 33.797 χ^2/NDF : 30.9/54

All: -12.427 ± 23.552 χ^2/NDF : 62.9/111

- sign 13.011 ± 32.838 χ^2/NDF : 30.7/56

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug



Right In: 172.433 $\pm$ 0.033 χ^2 /NDF: 4507256.2/29

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 173.608 $\pm$ 0.033 χ^2 /NDF: 5360354.9/33

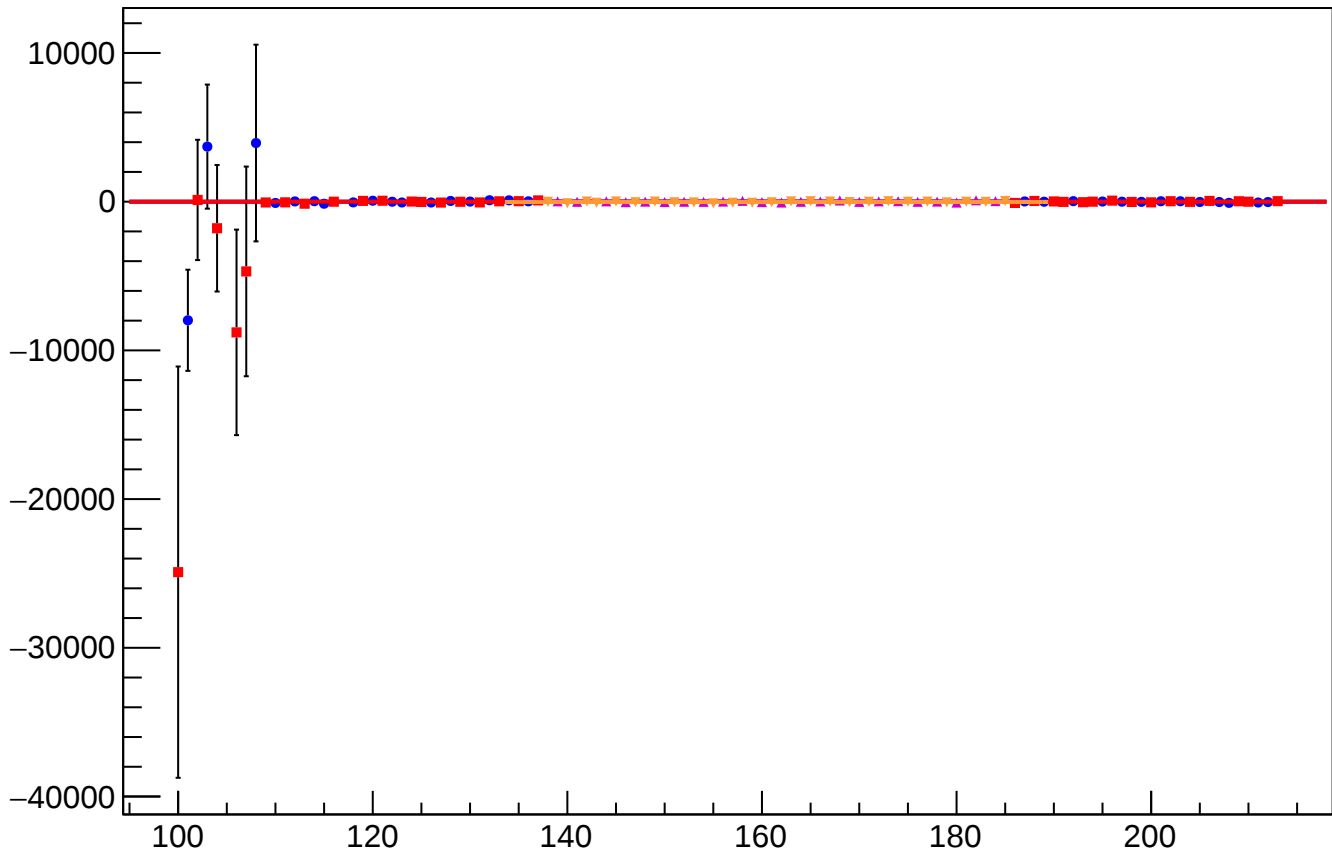
Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

+ sign 186.413 $\pm$ 0.024 χ^2 /NDF: 6731548.5/54

All: 182.976 $\pm$ 0.017 χ^2 /NDF: 13582788.3/13

- sign 179.732 $\pm$ 0.023 χ^2 /NDF: 6811041.9/56

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug



Right In: -2.823 ± 8.784 χ^2/NDF : 29.3/29

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: 2.417 ± 8.556 χ^2/NDF : 35.6/33

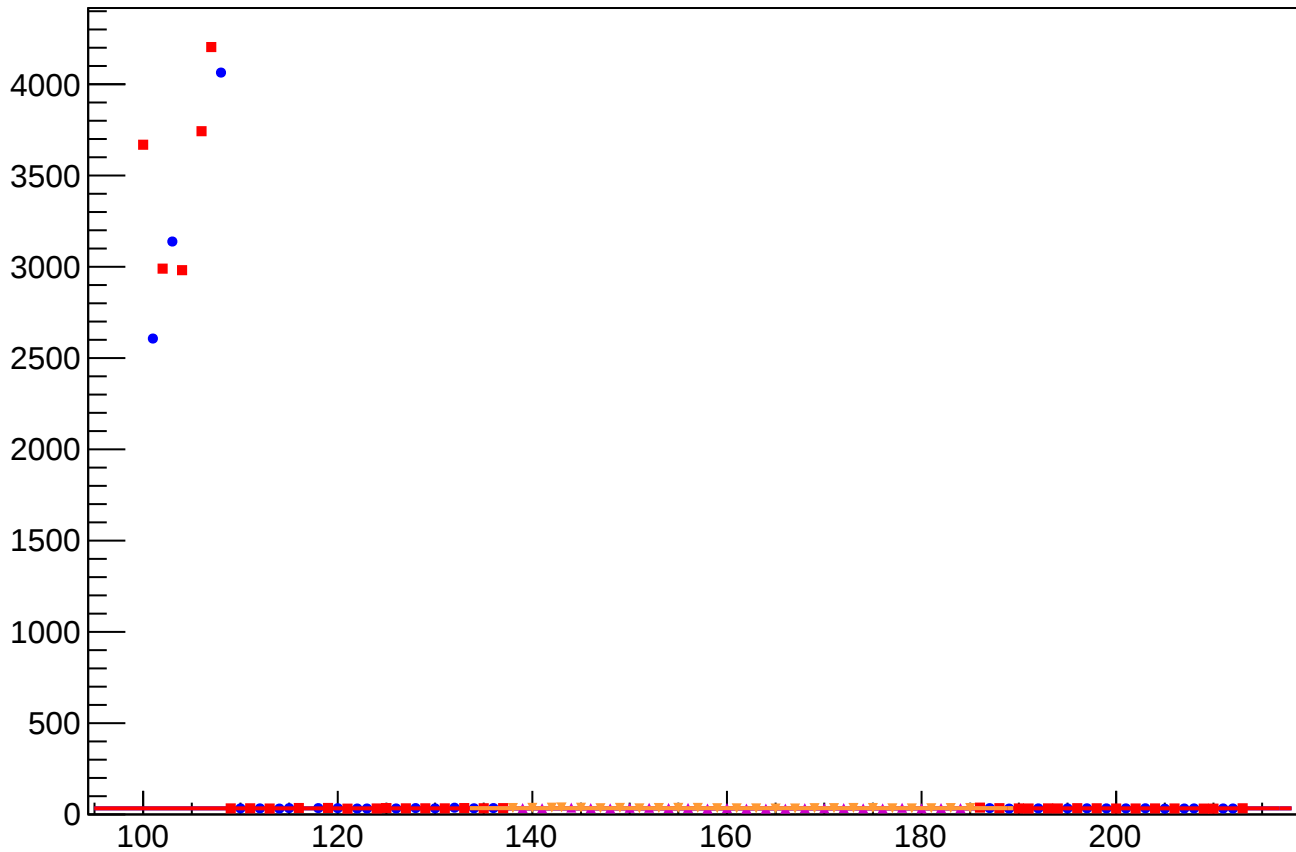
Left In: 5.924 ± 8.340 χ^2/NDF : 21.0/22

+ sign -14.376 ± 5.945 χ^2/NDF : 57.4/54

All: -5.123 ± 4.213 χ^2/NDF : 119.0/111

- sign 4.216 ± 5.972 χ^2/NDF : 56.7/56

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug



Right In: 33.384 $\pm$ 0.006 χ^2 /NDF: 3020179.8/29

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.467 $\pm$ 0.006 χ^2 /NDF: 3474183.2/33

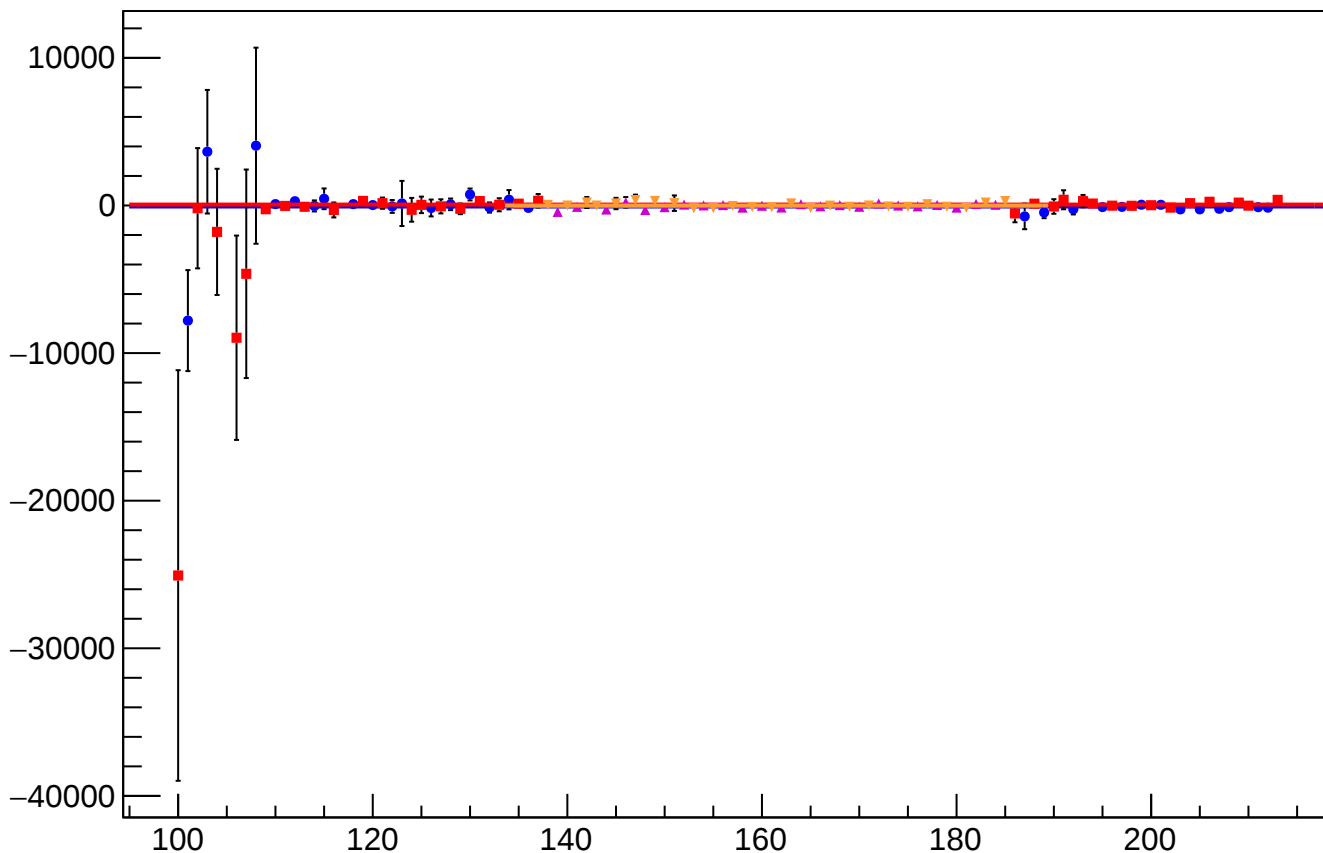
Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

+ sign 34.052 $\pm$ 0.004 χ^2 /NDF: 3099427.8/54

All: 34.071 $\pm$ 0.003 χ^2 /NDF: 6654166.2/111

- sign 34.090 $\pm$ 0.004 χ^2 /NDF: 3554698.8/56

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug



Right In: -68.885 ± 46.770 χ^2/NDF : 21.8/29

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: 61.649 ± 46.228 χ^2/NDF : 19.4/33

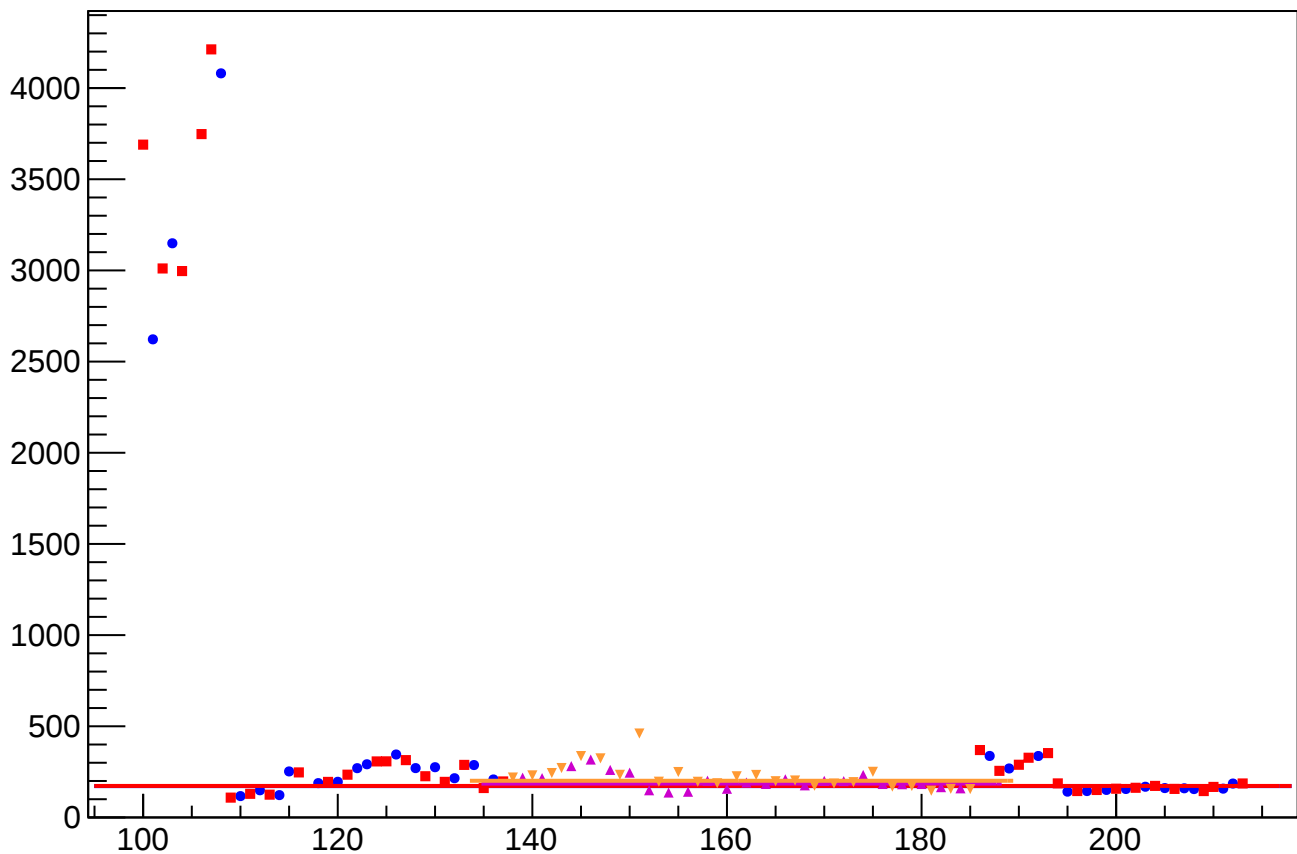
Left In: -34.977 ± 46.421 χ^2/NDF : 7.1/22

+ sign -39.437 ± 33.721 χ^2/NDF : 31.4/54

All: -12.181 ± 23.496 χ^2/NDF : 61.4/111

- sign 13.537 ± 32.756 χ^2/NDF : 28.7/56

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 171.842 $\pm$ 0.033 χ^2 /NDF: 4535688.2/29

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF: 1848437.4/24

Right Out: 172.817 $\pm$ 0.033 χ^2 /NDF: 5408420.5/33

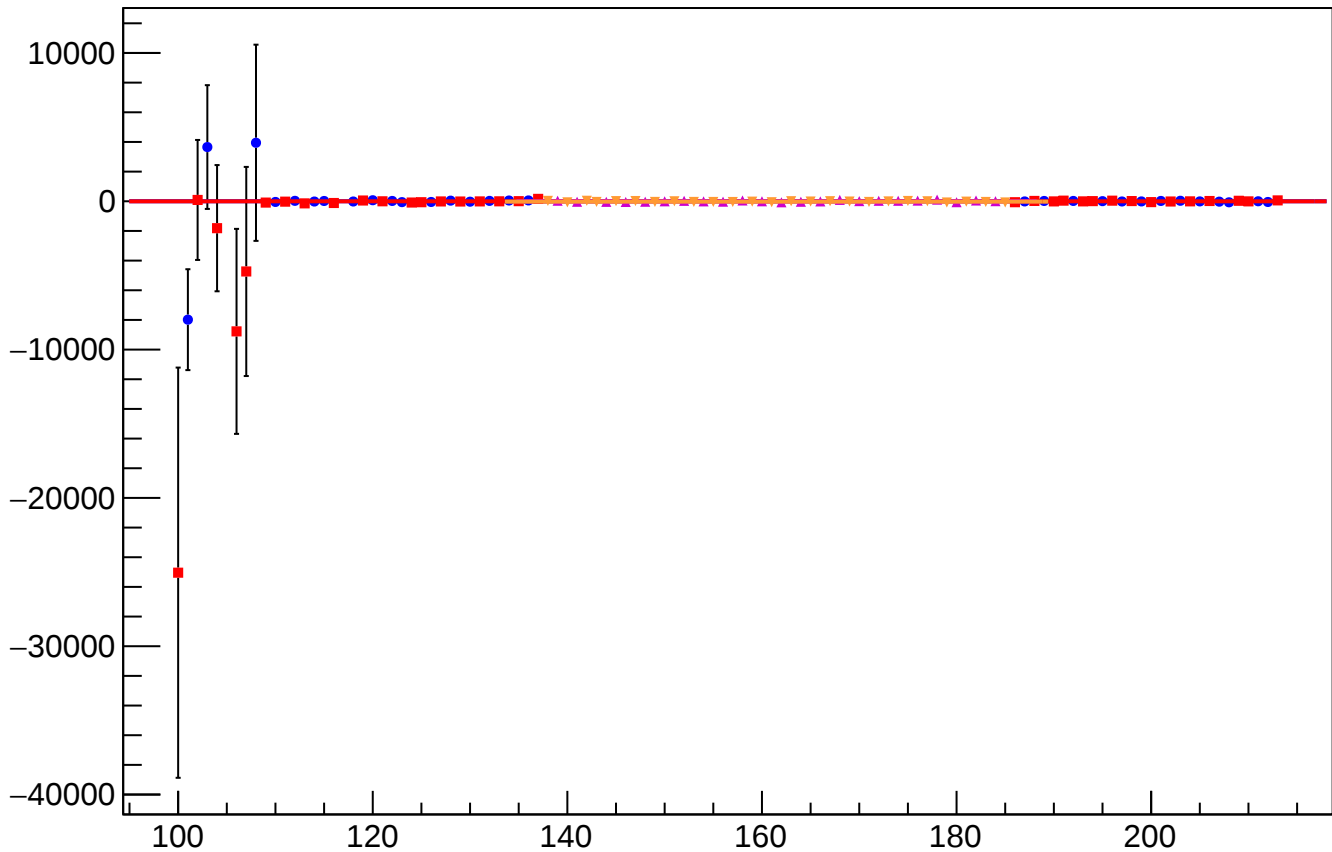
Left In: 185.627 $\pm$ 0.033 χ^2 /NDF: 1371411.2/22

+ sign 185.939 $\pm$ 0.024 χ^2 /NDF: 6762481.1/54

All: 182.469 $\pm$ 0.017 χ^2 /NDF: 13659931.7/136

- sign 179.196 $\pm$ 0.023 χ^2 /NDF: 6856304.4/56

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.031+/-7.951 χ^2/NDF : 24.0/29

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: -2.241+/-7.745 χ^2/NDF : 41.5/33

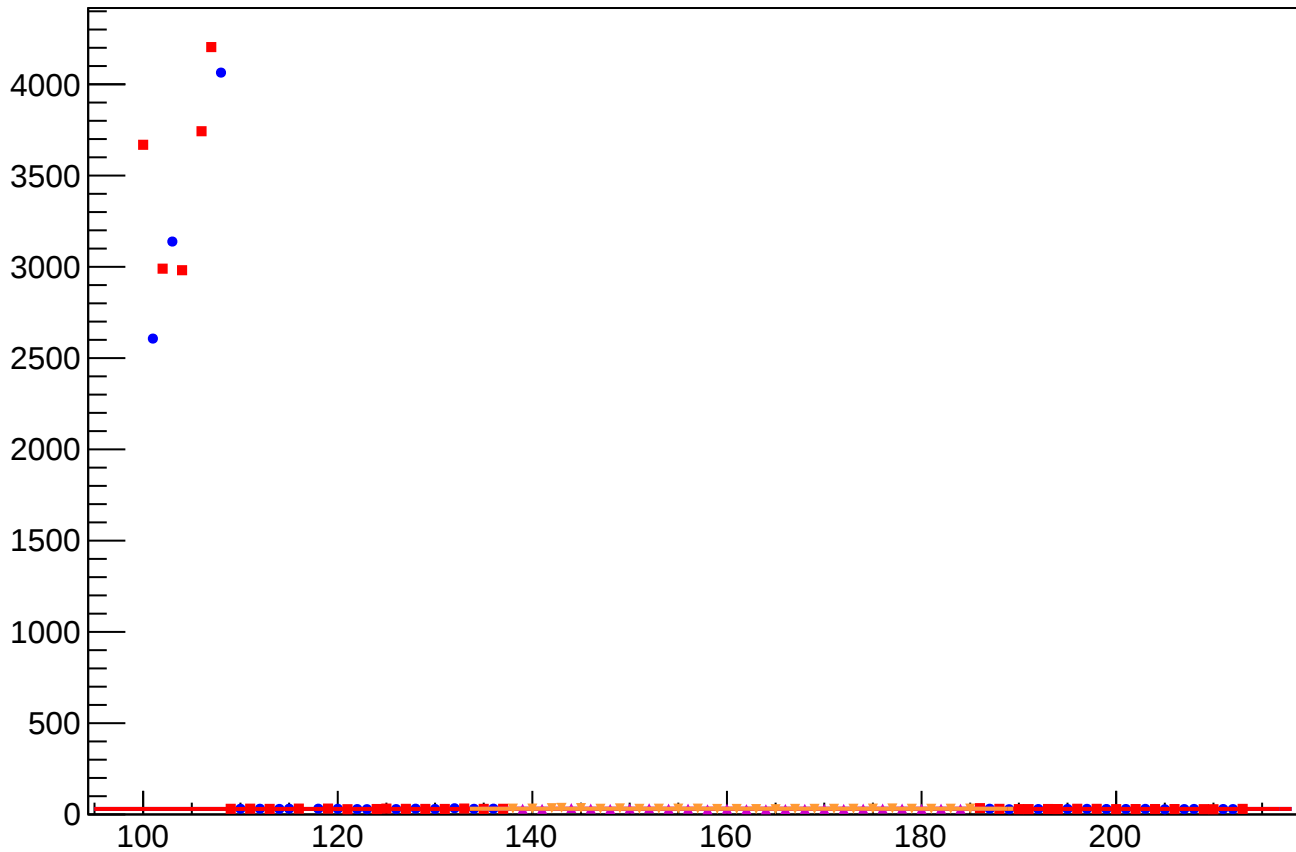
Left In: 6.386+/-7.577 χ^2/NDF :38.7/22

+ sign -11.635+/-5.398 χ^2/NDF : 47.8/54

All: -4.757+/-3.823 χ^2/NDF : 131.9/111

- sign 2.167+/-5.416 χ^2/NDF : 80.9/56

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 30.207 $\pm$ 0.006 χ^2 /NDF: 3038373.6/29

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.268 $\pm$ 0.005 χ^2 /NDF: 3492211.6/33

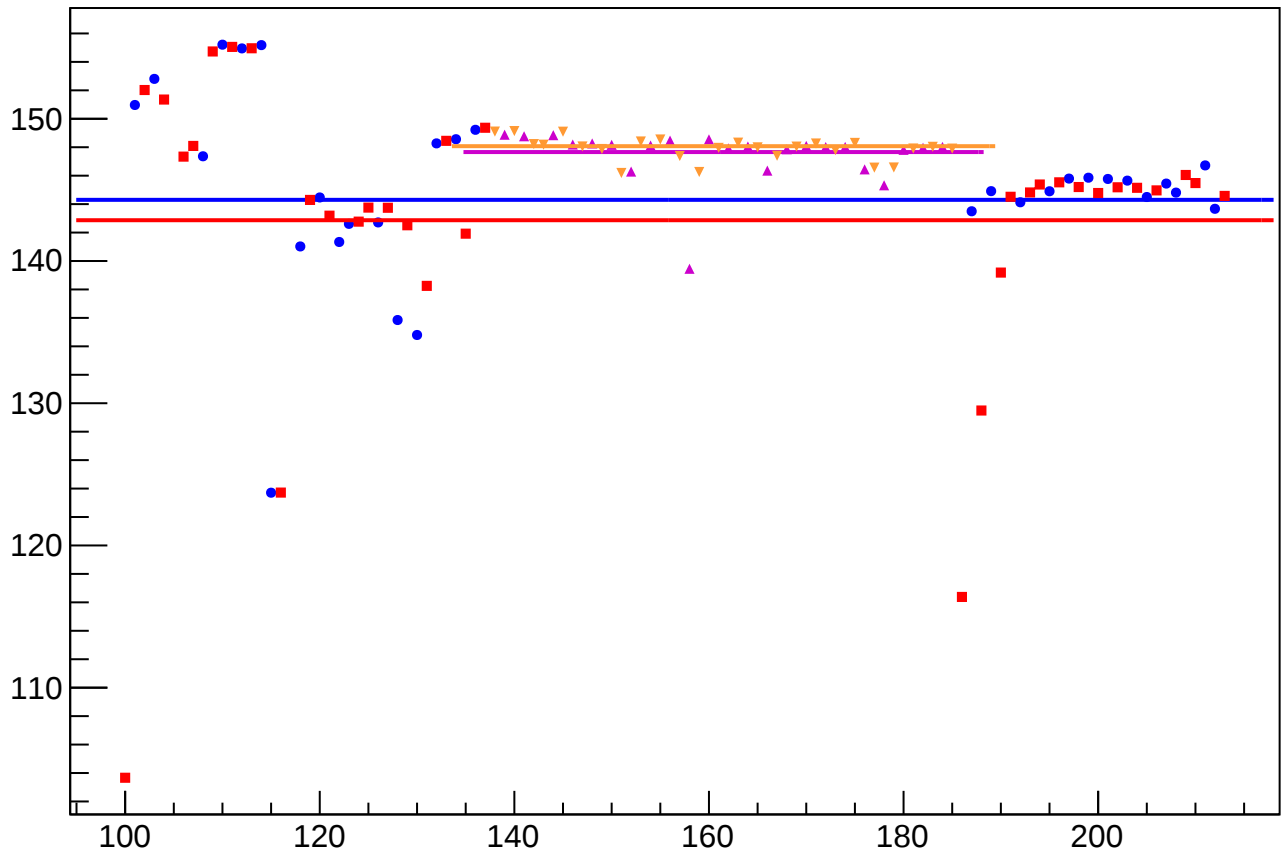
Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

+ sign 30.898 $\pm$ 0.004 χ^2 /NDF: 3148297.8/54

All: 30.891 $\pm$ 0.003 χ^2 /NDF: 6753149.9/111

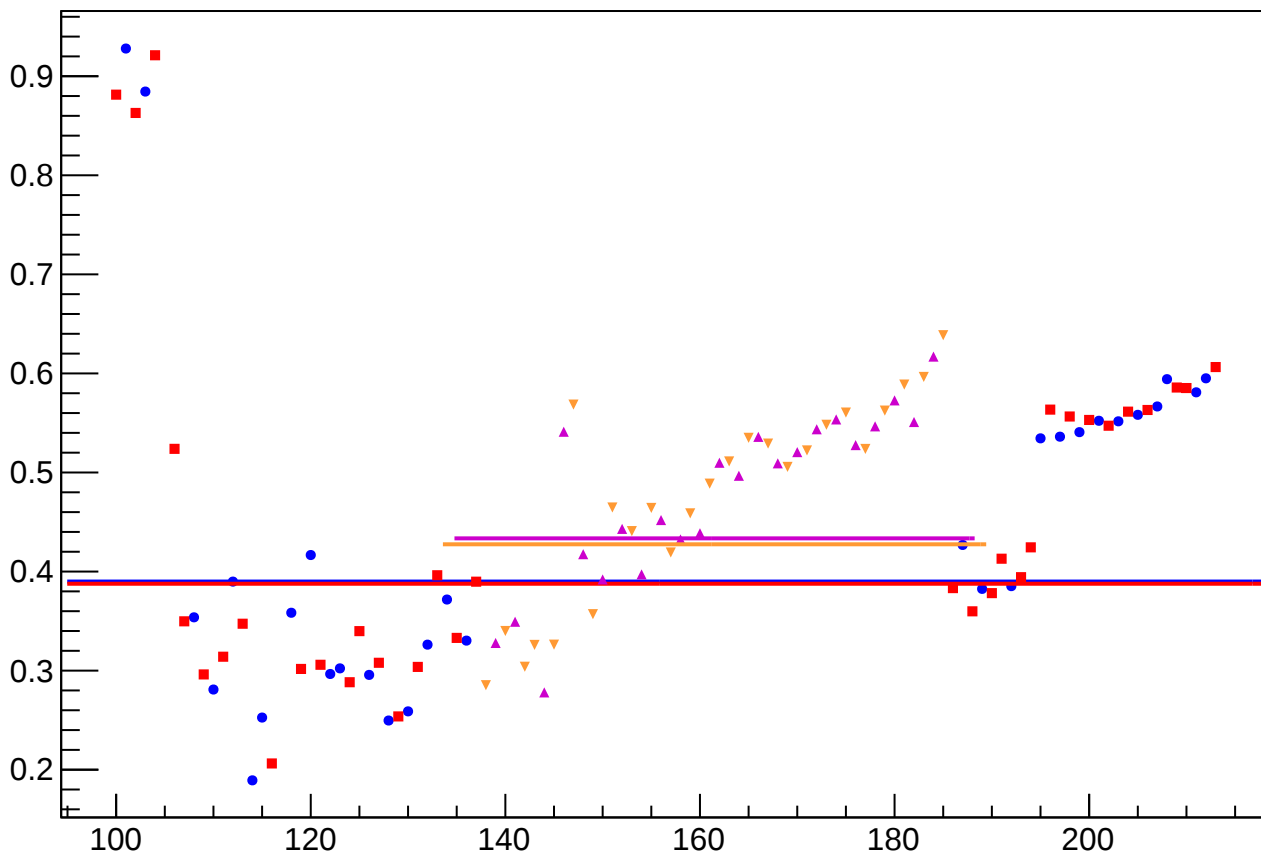
- sign 30.885 $\pm$ 0.004 χ^2 /NDF: 3604846.2/56

yield_bcm_an_ds_mean vs Slug



Right In: 144.301+/-0.000	χ^2/NDF : 3501045924.3/29	+ sign 146.226+/-0.000	χ^2/NDF : 4212328429.8/54
Left Out: 148.074+/-0.000	χ^2/NDF : 65673678.9/24	All: 145.656+/-0.000	χ^2/NDF : 13179274668.
Right Out: 142.868+/-0.000	χ^2/NDF : 7450633308.5/33	- sign 145.096+/-0.000	χ^2/NDF : 8849955511.5/56
Left In: 147.660+/-0.000	χ^2/NDF : 343892338.9/22		

yield_bcm_an_ds_rms vs Slug



Right In: 0.390 $\pm$ 0.000 χ^2 /NDF: 3234996.3/29

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 3075457.2/33

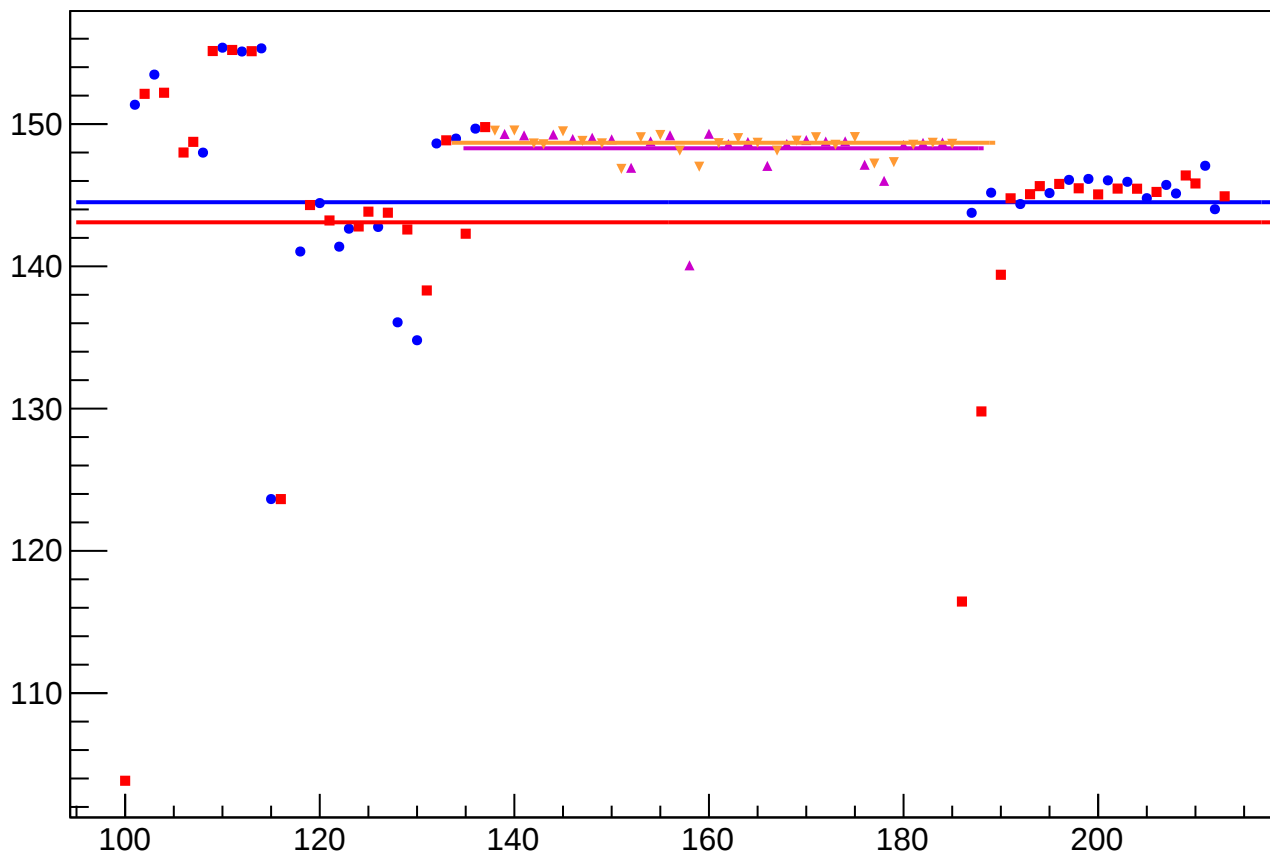
Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

+ sign 0.409 $\pm$ 0.000 χ^2 /NDF: 5256050.0/54

All: 0.409 $\pm$ 0.000 χ^2 /NDF: 10003673.0/111

- sign 0.409 $\pm$ 0.000 χ^2 /NDF: 4747620.9/56

yield_bcm_an_ds3_mean vs Slug



Right In: 144.508 $\pm$ 0.000 χ^2 /NDF: 3550961875.5/29

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.095 $\pm$ 0.000 χ^2 /NDF: 7402313816.5/33

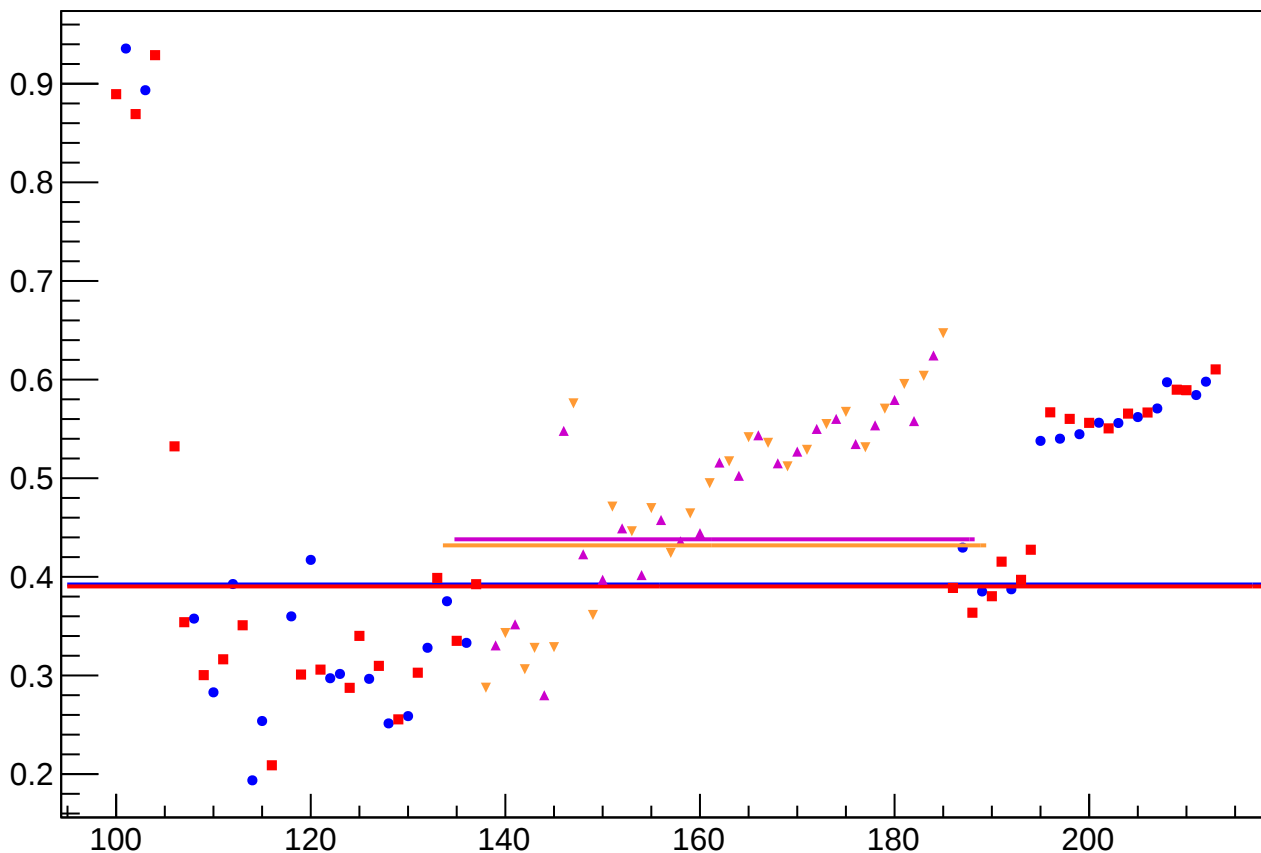
Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

+ sign 146.630 $\pm$ 0.000 χ^2 /NDF: 4382340790.9/54

All: 146.062 $\pm$ 0.000 χ^2 /NDF: 13453504681.0

- sign 145.503 $\pm$ 0.000 χ^2 /NDF: 8956699275.2/56

yield_bcm_an_ds3_rms vs Slug



Right In: 0.392 ± 0.000 $\chi^2/\text{NDF}: 3241823.3/29$

Left Out: 0.432 ± 0.000 $\chi^2/\text{NDF}: 1924979.0/24$

Right Out: 0.390 ± 0.000 $\chi^2/\text{NDF}: 3079538.6/33$

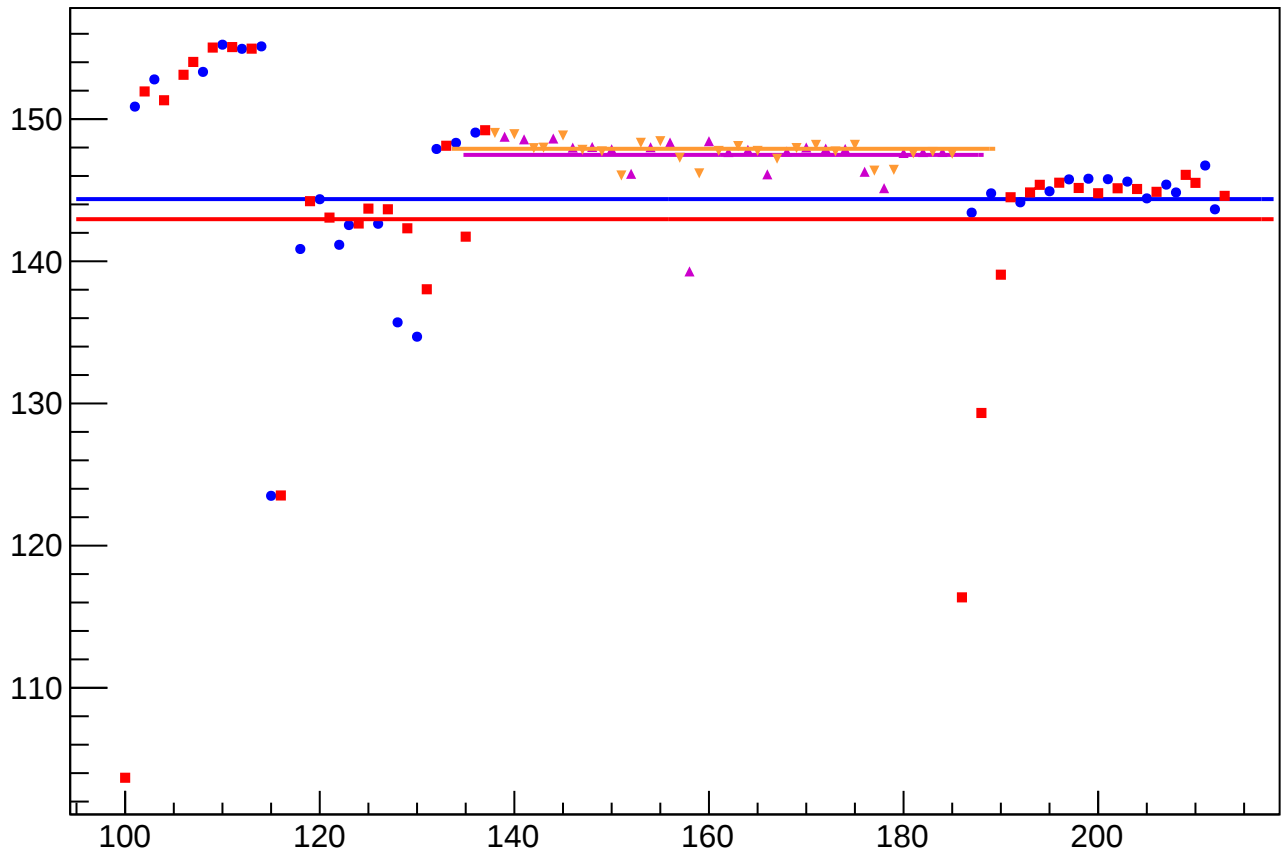
Left In: 0.438 ± 0.000 $\chi^2/\text{NDF}: 1504635.6/22$

+ sign 0.412 ± 0.000 $\chi^2/\text{NDF}: 5307228.5/54$

All: 0.412 ± 0.000 $\chi^2/\text{NDF}: 10097511.8/111$

- sign 0.412 ± 0.000 $\chi^2/\text{NDF}: 4790283.2/56$

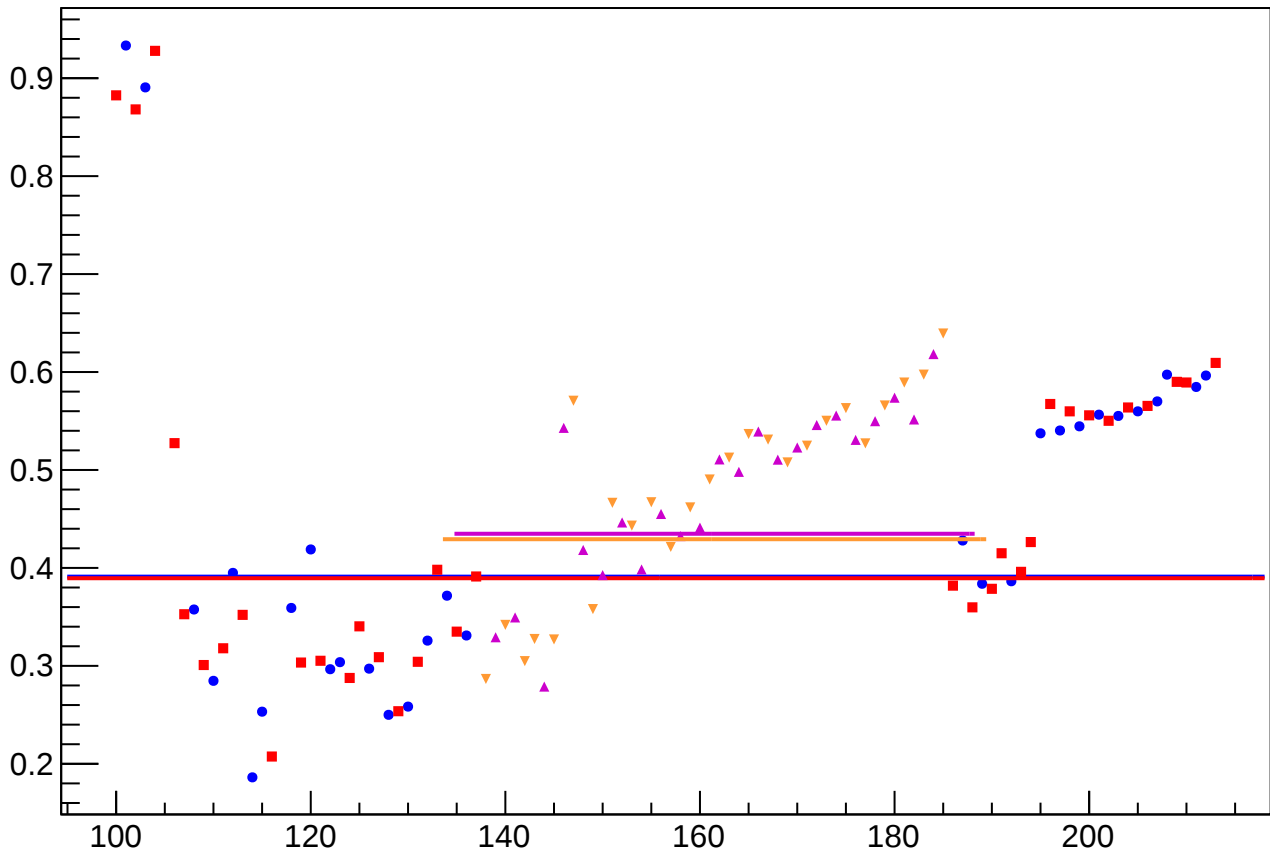
yield_bcm_an_us_mean vs Slug



Right In: 144.373 ± 0.000 χ^2/NDF : 3706452714.0/29
 Left Out: 147.912 ± 0.000 χ^2/NDF : 64463426.1/24
 Right Out: 142.961 ± 0.000 χ^2/NDF : 7825139414.0/33
 Left In: 147.483 ± 0.000 χ^2/NDF : 342674720.4/22

+ sign 146.178 ± 0.000 χ^2/NDF : 4334438095.2/54
 All: 145.617 ± 0.000 χ^2/NDF : 13547125447.
 - sign 145.066 ± 0.000 χ^2/NDF : 9100398886.3/56

yield_bcm_an_us_rms vs Slug



Right In: 0.391 ± 0.000 χ^2/NDF : 3270918.7/29

Left Out: 0.429 ± 0.000 χ^2/NDF : 1891709.3/24

Right Out: 0.389 ± 0.000 χ^2/NDF : 3083336.0/33

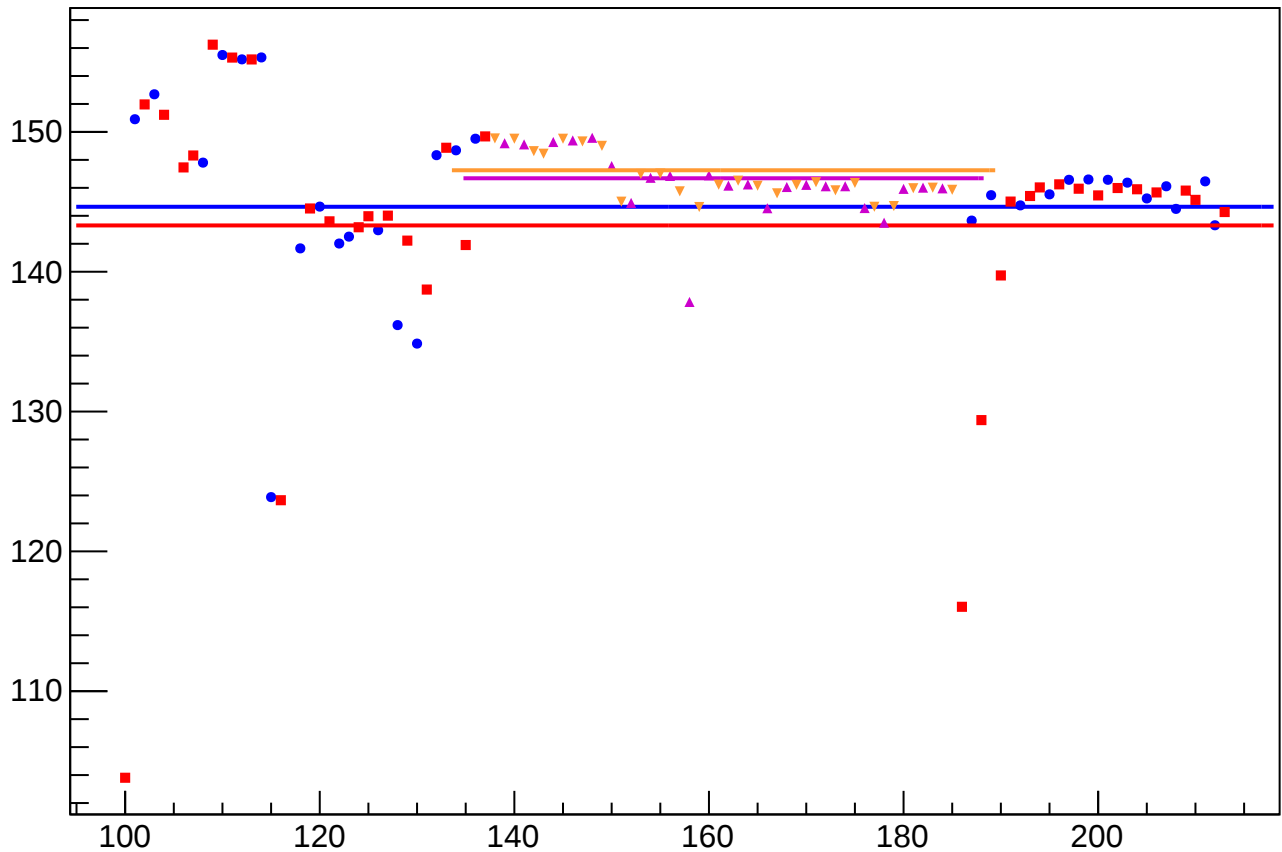
Left In: 0.435 ± 0.000 χ^2/NDF : 1485915.1/22

+ sign 0.411 ± 0.000 χ^2/NDF : 5294041.8/54

All: 0.411 ± 0.000 χ^2/NDF : 10051309.6/111

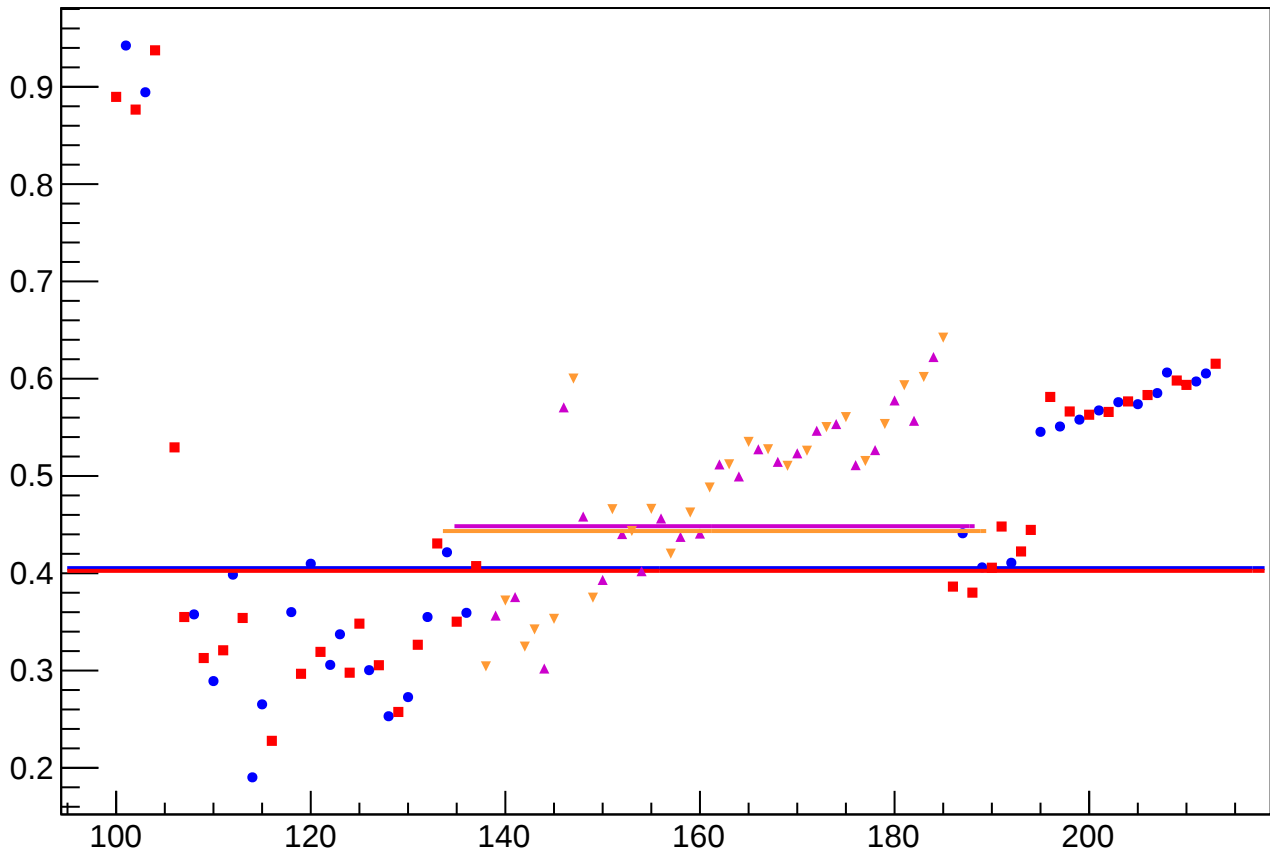
- sign 0.411 ± 0.000 χ^2/NDF : 4757267.7/56

yield_bcm_dg_us_mean vs Slug



Right In: 144.647 $\pm$ 0.000	χ^2 /NDF: 3229501832.7/29	+ sign 145.989 $\pm$ 0.000	χ^2 /NDF: 3779376769.8/54
Left Out: 147.257 $\pm$ 0.000	χ^2 /NDF: 261906278.3/24	All: 145.436 $\pm$ 0.000	χ^2 /NDF: 12069964754.
Right Out: 143.311 $\pm$ 0.000	χ^2 /NDF: 7143733487.8/33	- sign 144.894 $\pm$ 0.000	χ^2 /NDF: 8188288197.4/56
Left In: 146.685 $\pm$ 0.000	χ^2 /NDF: 554922388.0/22		

yield_bcm_dg_us_rms vs Slug



Right In: 0.405+/-0.000 χ^2/NDF : 3165620.2/29

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.402+/-0.000 χ^2/NDF : 2975695.8/33

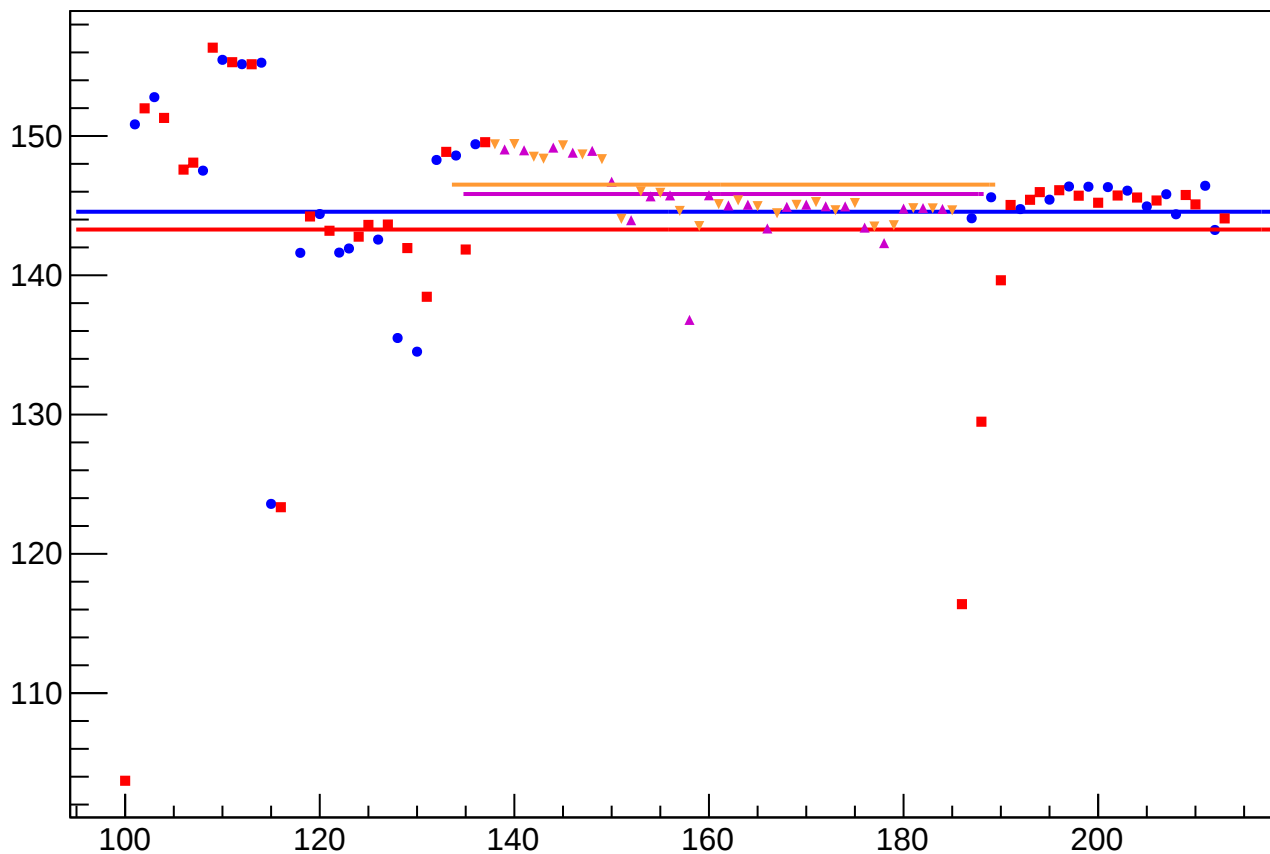
Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

+ sign 0.425+/-0.000 χ^2/NDF : 4768773.6/54

All: 0.424+/-0.000 χ^2/NDF : 9046174.2/111

- sign 0.424+/-0.000 χ^2/NDF : 4277278.8/56

yield_bcm_dg_ds_mean vs Slug



Right In: 144.561 $\pm$ 0.000 χ^2/NDF : 3339371215.1/29

Left Out: 146.508 $\pm$ 0.000 χ^2/NDF : 401248837.9/24

Right Out: 143.285 $\pm$ 0.000 χ^2/NDF : 7096224142.5/33

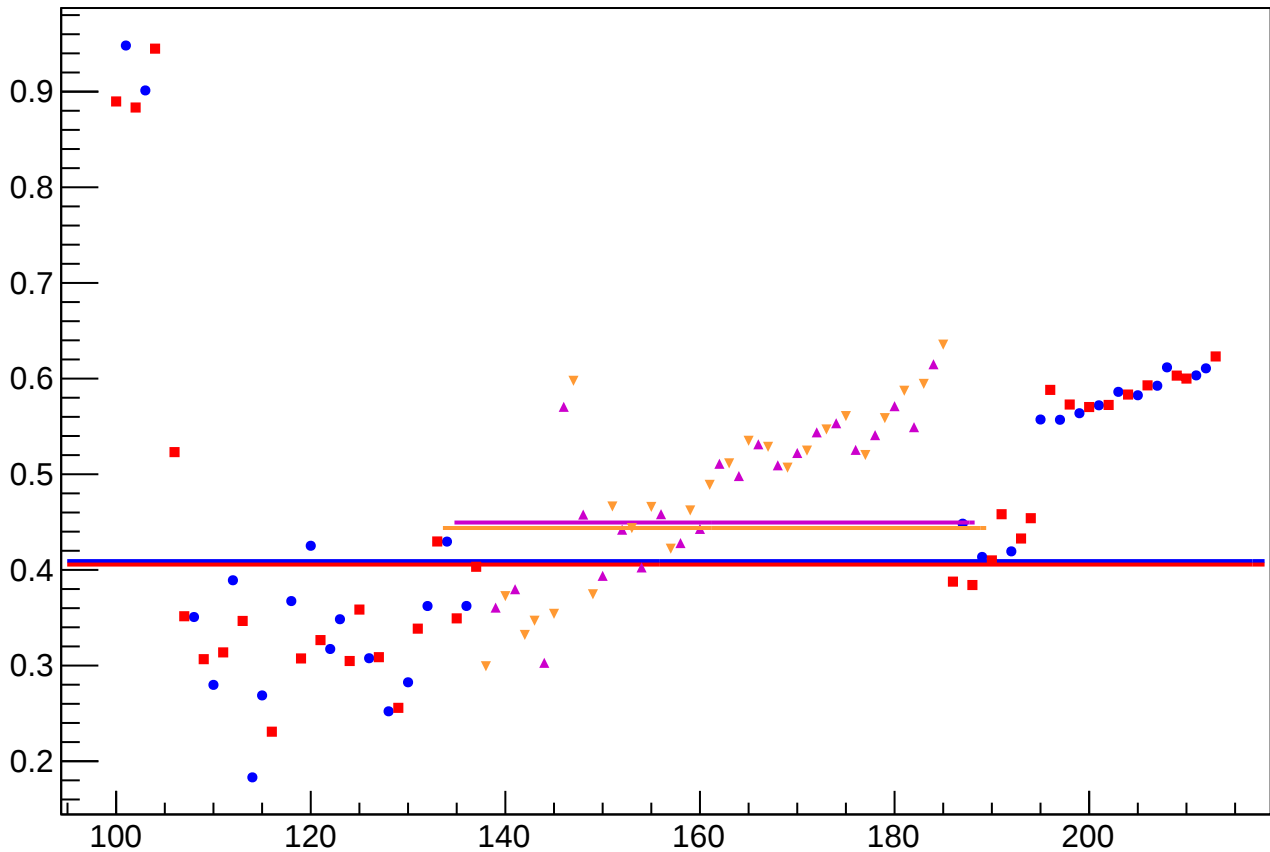
Left In: 145.834 $\pm$ 0.000 χ^2/NDF : 690172810.0/22

+ sign 145.572 $\pm$ 0.000 χ^2/NDF : 3898694346.2/54

All: 145.025 $\pm$ 0.000 χ^2/NDF : 12060446217.0

- sign 144.490 $\pm$ 0.000 χ^2/NDF : 8062851499.3/56

yield_bcm_dg_ds_rms vs Slug



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 3214266.2/29

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.406 $\pm$ 0.000 χ^2 /NDF: 3013430.7/33

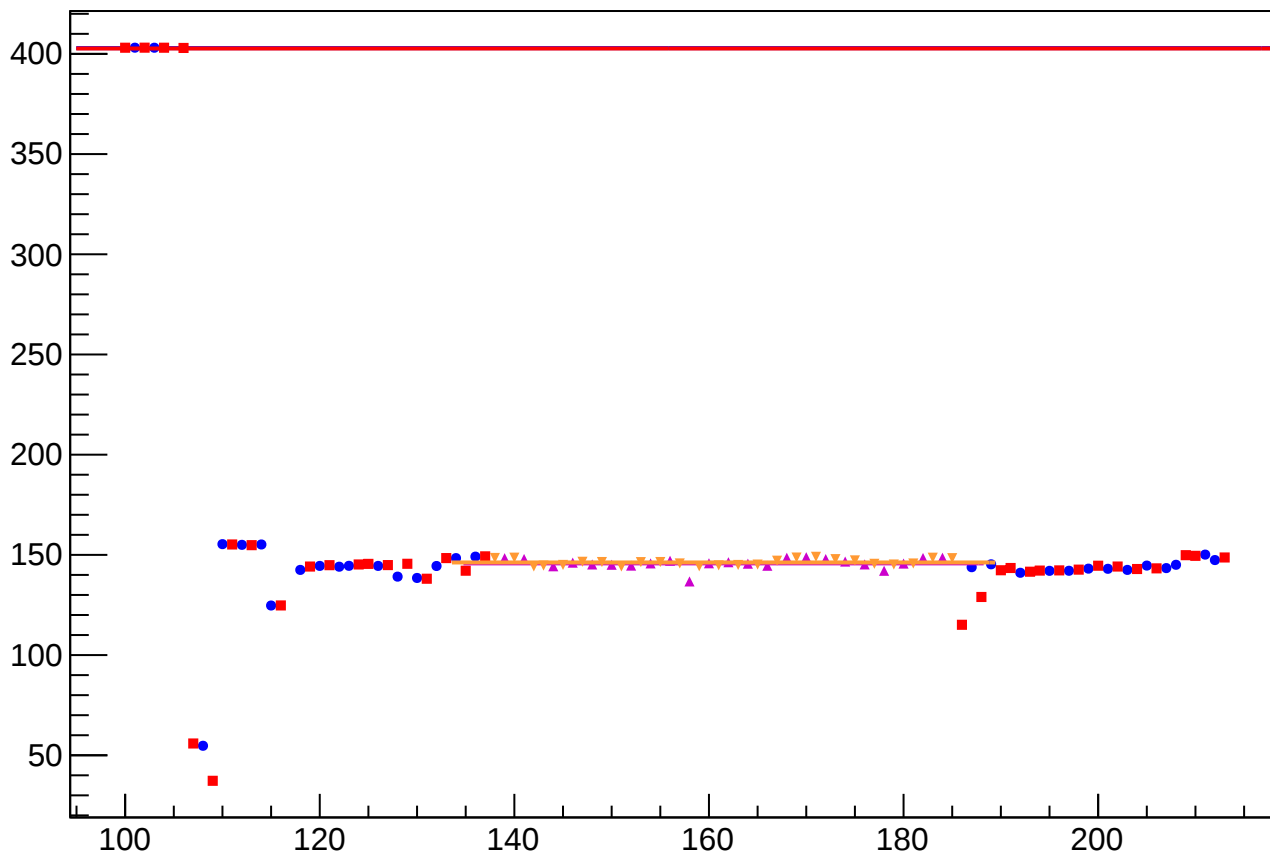
Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

+ sign 0.427 $\pm$ 0.000 χ^2 /NDF: 4774458.0/54

All: 0.427 $\pm$ 0.000 χ^2 /NDF: 9045106.6/111

- sign 0.426 $\pm$ 0.000 χ^2 /NDF: 4270536.3/56

yield_cav4bQ_mean vs Slug



Right In: 402.868 $\pm$ 0.000 χ^2 /NDF: 1820252243511.2/29

Left Out: 146.216 $\pm$ 0.000 χ^2 /NDF: 86042286.3/24

Right Out: 402.694 $\pm$ 0.000 χ^2 /NDF: 4066066385367.7/33

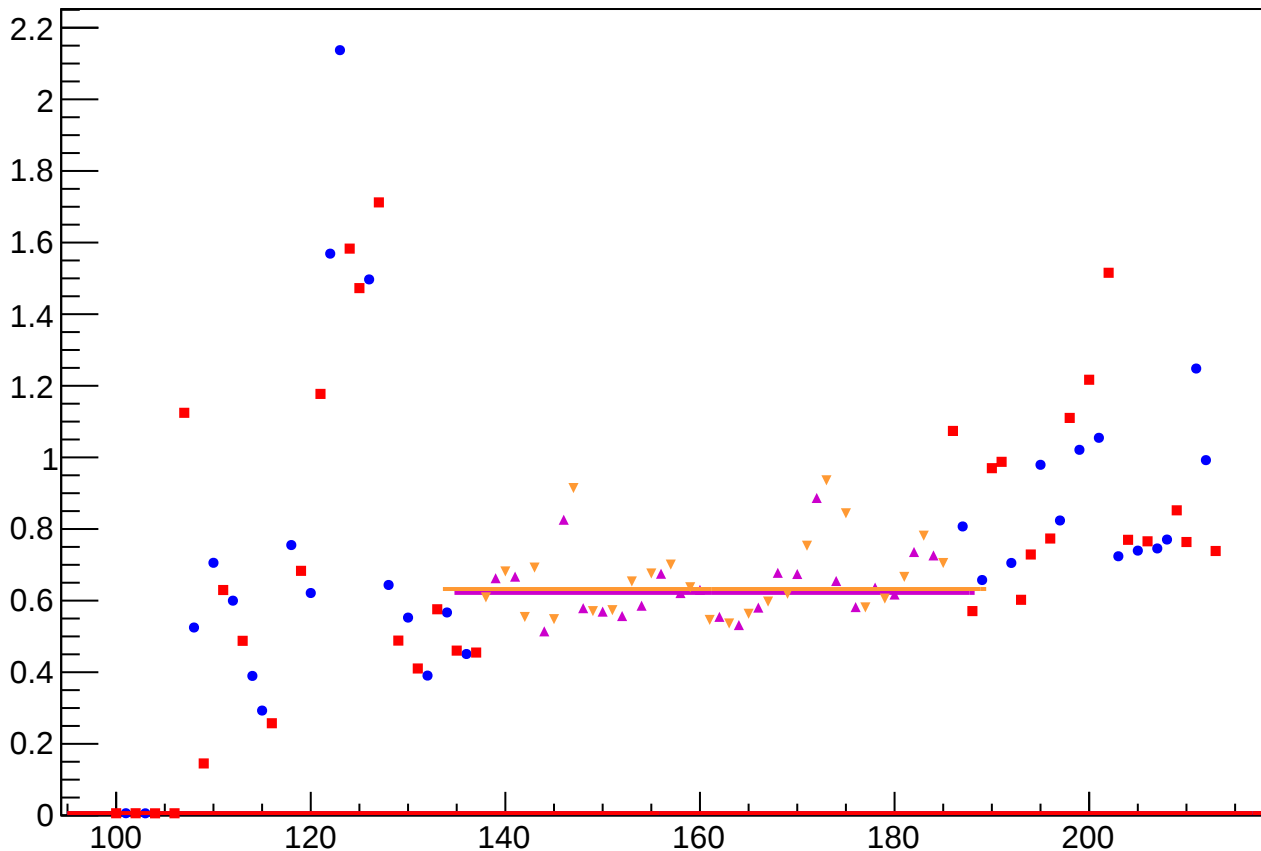
Left In: 145.755 $\pm$ 0.000 χ^2 /NDF: 206171532.0/22

+ sign 402.573 $\pm$ 0.000 χ^2 /NDF: 4179899933738.6

All: 402.501 $\pm$ 0.000 χ^2 /NDF: 105740806297

- sign 402.438 $\pm$ 0.000 χ^2 /NDF: 6393878126339.3

yield_cav4bQ_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 23810141.8/29

Left Out: 0.632+/-0.000 χ^2/NDF :613604.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 26285318.2/33

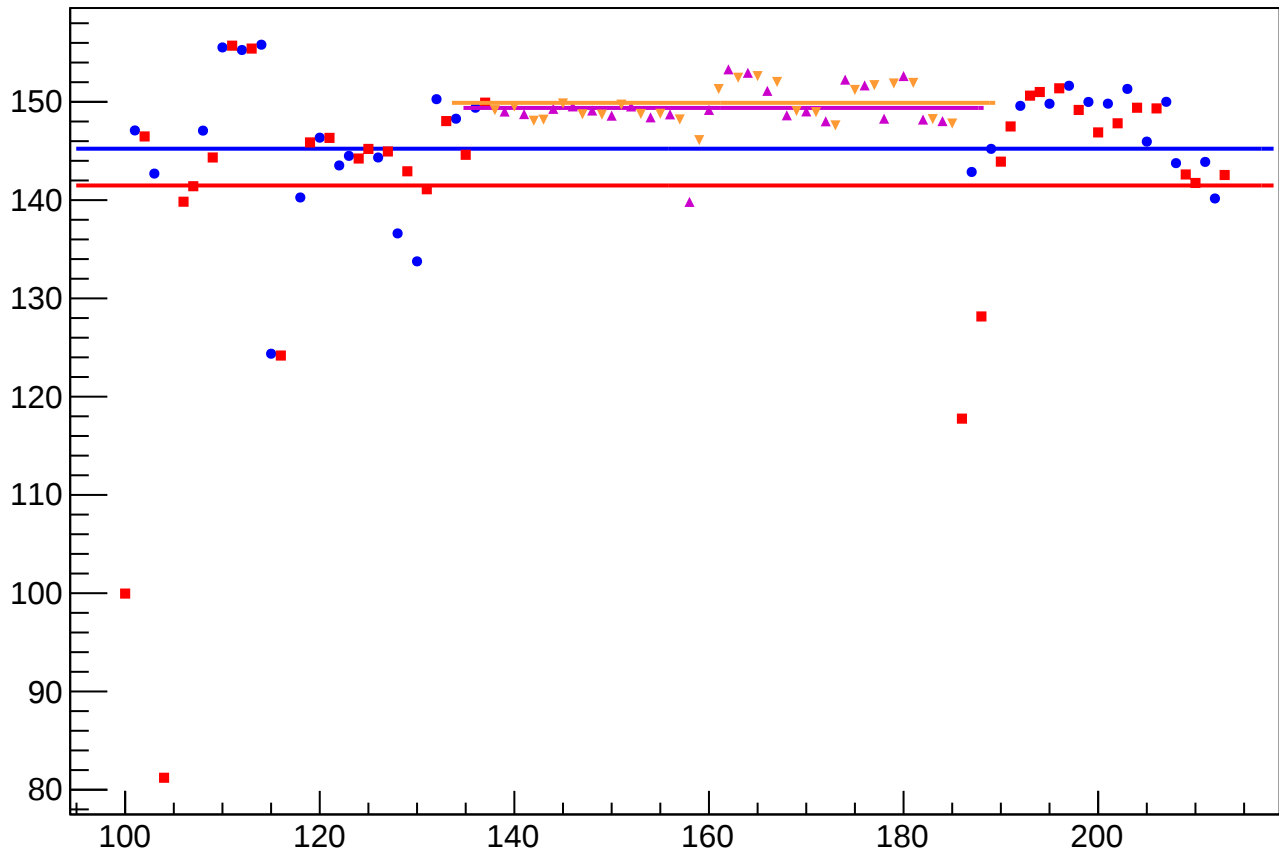
Left In: 0.622+/-0.000 χ^2/NDF :399965.3/22

+ sign 0.007+/-0.000 χ^2/NDF : 52479935.3/54

All: 0.007+/-0.000 χ^2/NDF : 105833607.7/111

- sign 0.007+/-0.000 χ^2/NDF : 53353378.8/56

yield_cav4cQ_mean vs Slug



Right In: 145.232 $\pm$ 0.000 χ^2 /NDF: 1359743221.8/29

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 141.490 $\pm$ 0.000 χ^2 /NDF: 3251361999.8/33

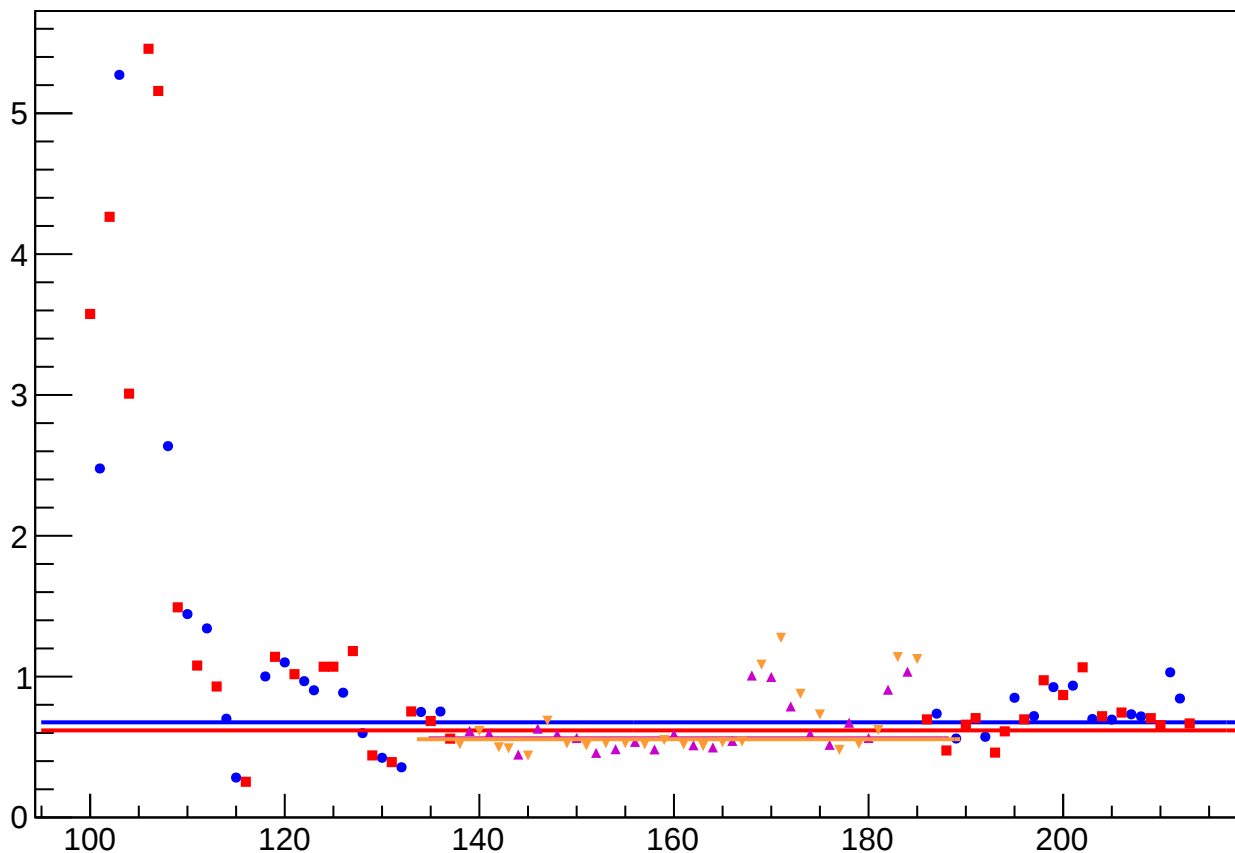
Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

+ sign 148.396 $\pm$ 0.000 χ^2 /NDF: 1878742791.8/54

All: 147.307 $\pm$ 0.000 χ^2 /NDF: 6902232859.0

- sign 146.263 $\pm$ 0.000 χ^2 /NDF: 4849531206.7/56

yield_cav4cQ_rms vs Slug



Right In: 0.676 ± 0.000 χ^2/NDF : 4232501.9/29

Left Out: 0.555 ± 0.000 χ^2/NDF : 1773688.1/24

Right Out: 0.618 ± 0.000 χ^2/NDF : 5581444.6/33

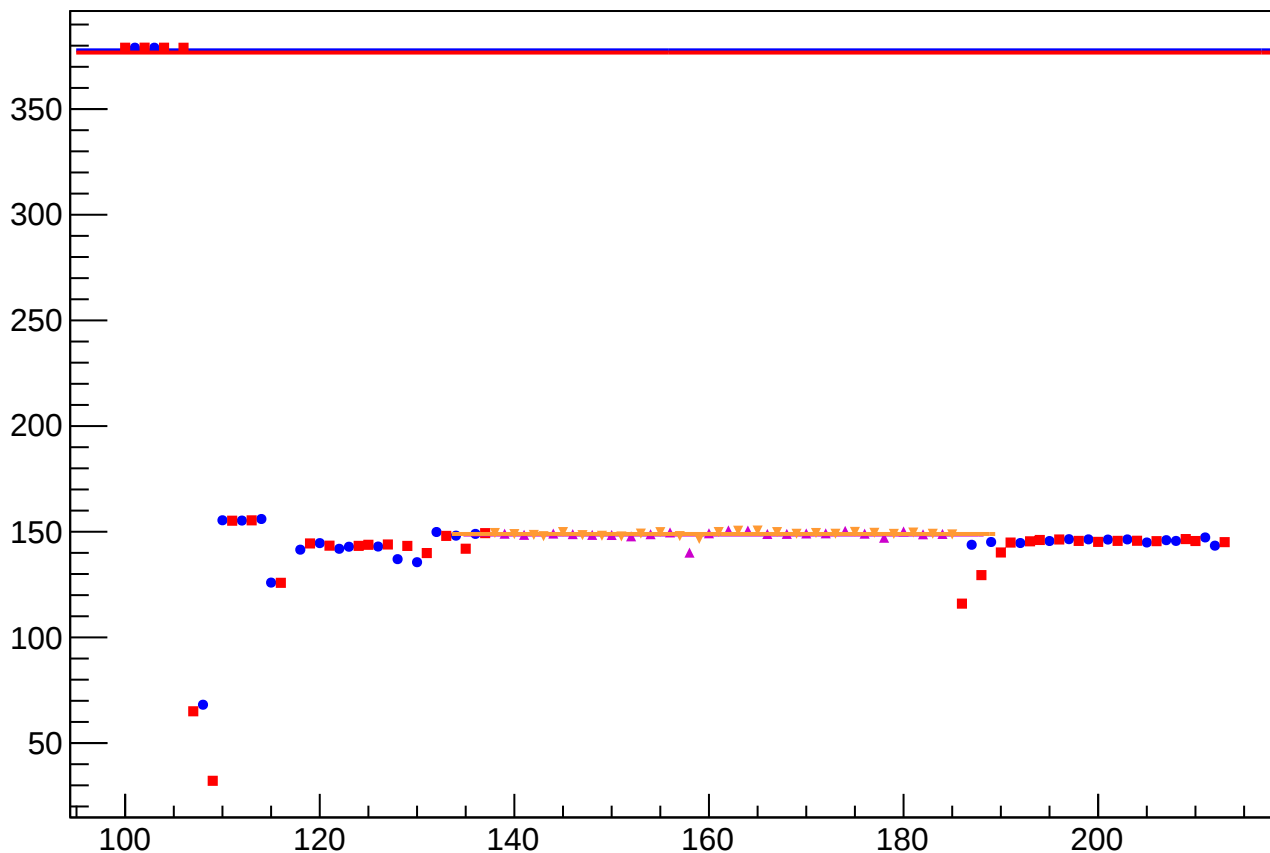
Left In: 0.562 ± 0.000 χ^2/NDF : 1305573.4/22

+ sign 0.594 ± 0.000 χ^2/NDF : 6477388.8/54

All: 0.589 ± 0.000 χ^2/NDF : 13490896.4/111

- sign 0.584 ± 0.000 χ^2/NDF : 7005662.5/56

yield_cav4dQ_mean vs Slug



Right In: 377.787 $\pm$ 0.000 χ^2 /NDF: 4043472177937.9/29

Left Out: 148.944 $\pm$ 0.000 χ^2 /NDF: 63976941.3/24

Right Out: 376.741 $\pm$ 0.000 χ^2 /NDF: 10241789201187.7/33

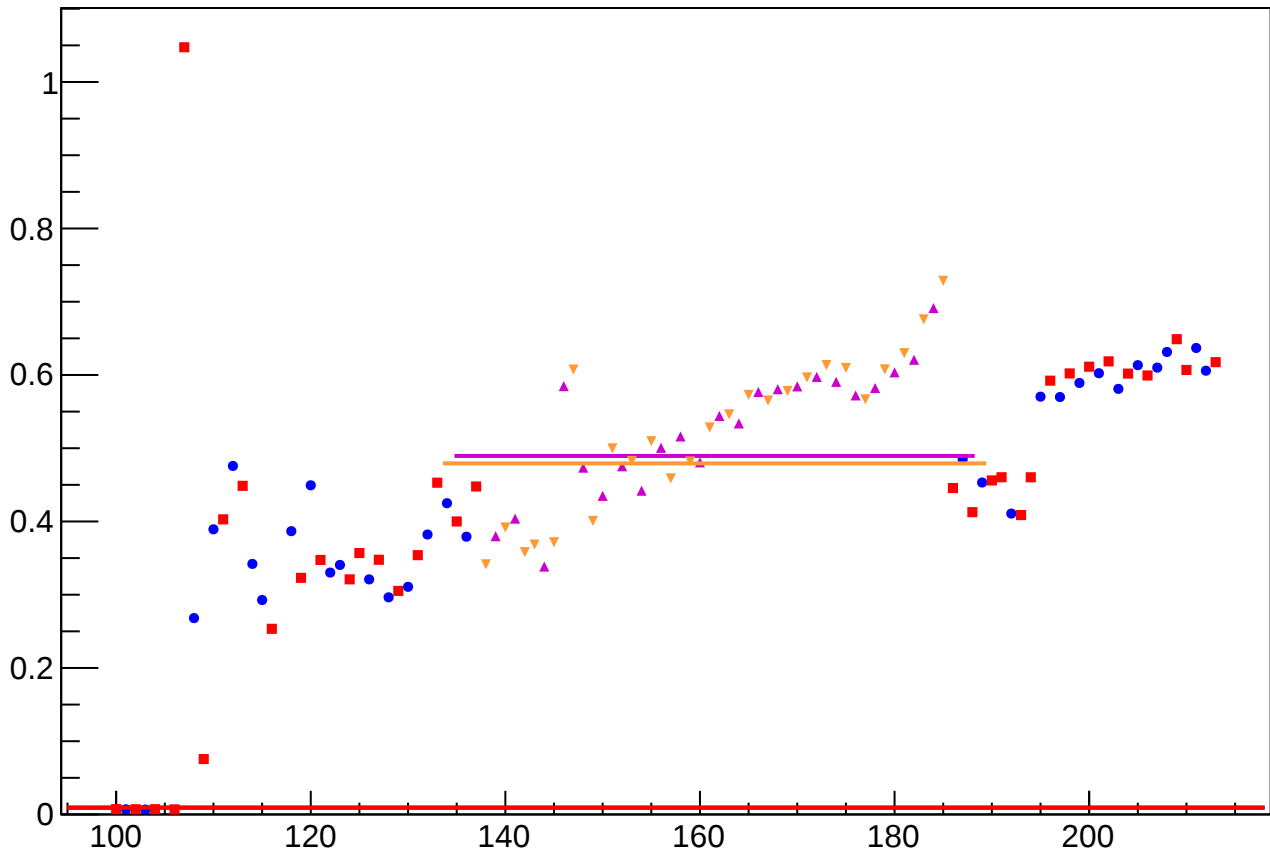
Left In: 148.672 $\pm$ 0.000 χ^2 /NDF: 252846428.3/22

+ sign 376.513 $\pm$ 0.000 χ^2 /NDF: 7933851410851.6

All: 376.091 $\pm$ 0.000 χ^2 /NDF: 217221282205

- sign 375.721 $\pm$ 0.000 χ^2 /NDF: 13783792705478.5

yield_cav4dQ_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 27104466.0/29

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 28685781.0/33

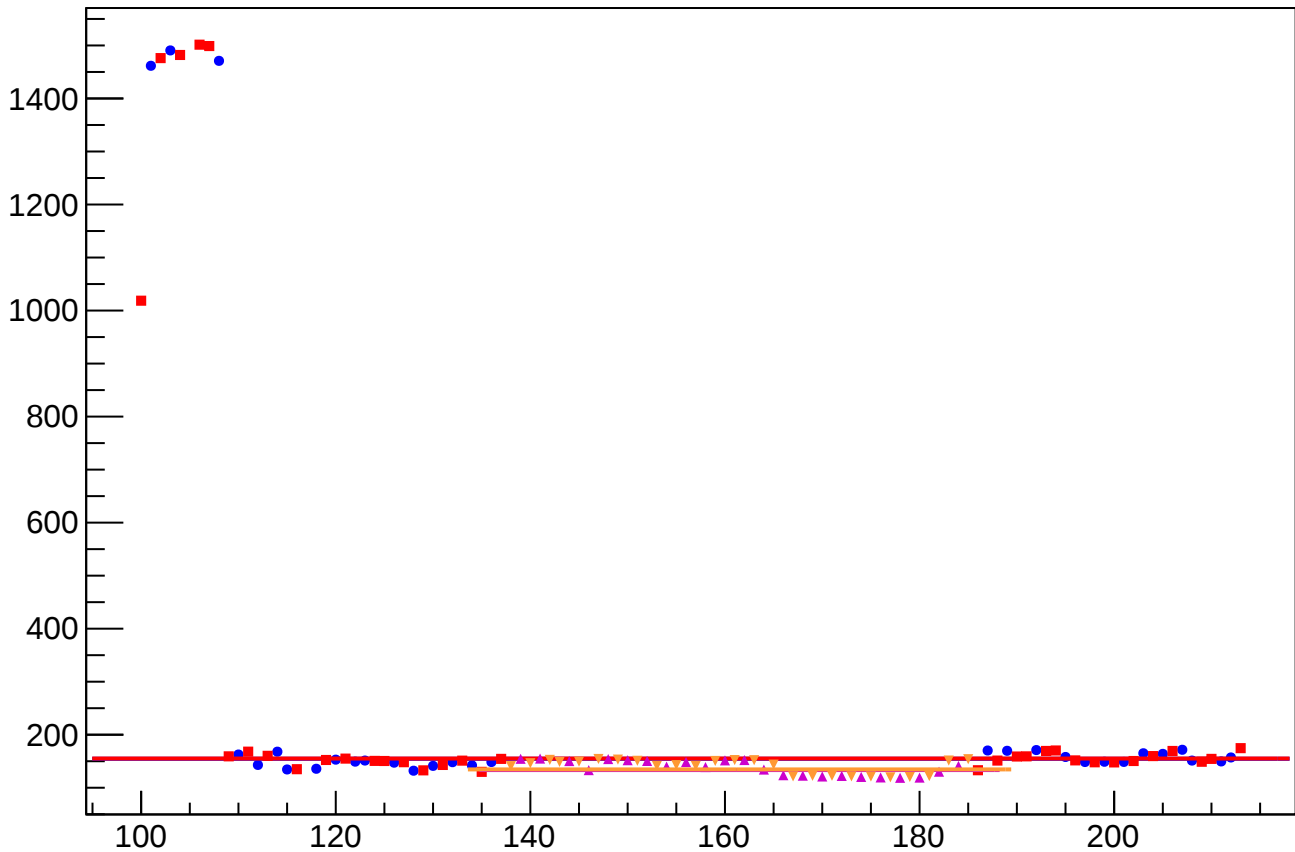
Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 61443032.5/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 122600213.8/111

- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 61154677.6/56

yield_bcm0l02_mean vs Slug



Right In: 154.601+/-0.000 χ^2/NDF : 25980796340.4/29

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 155.075+/-0.000 χ^2/NDF : 35199601014.2/33

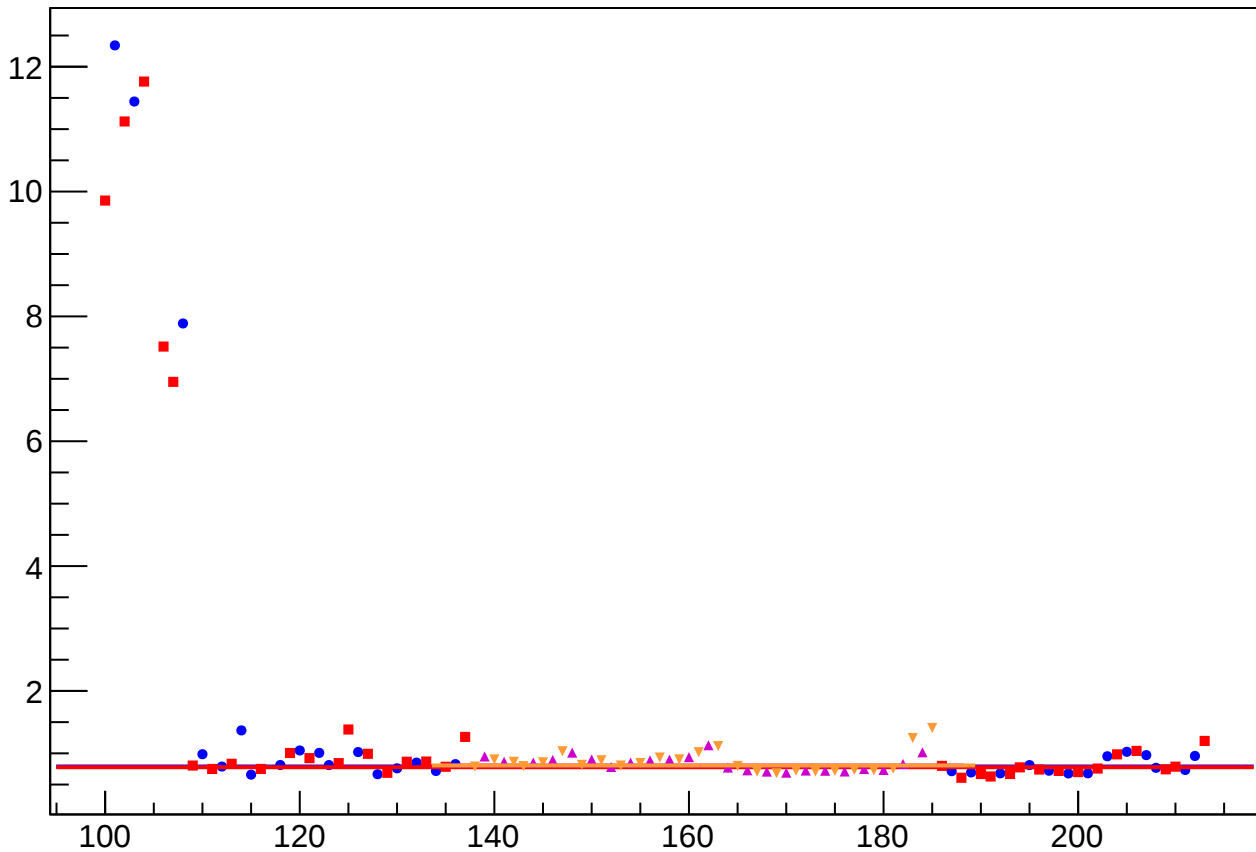
Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

+ sign 143.423+/-0.000 χ^2/NDF : 34573749561.1/54

All: 143.590+/-0.000 χ^2/NDF : 79228333564.

- sign 143.753+/-0.000 χ^2/NDF : 44652230332.6/56

yield_bcm0l02_rms vs Slug



Right In: 0.789 $\pm$ 0.000 χ^2 /NDF: 3052273.1/29

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.778 $\pm$ 0.000 χ^2 /NDF: 3445620.8/33

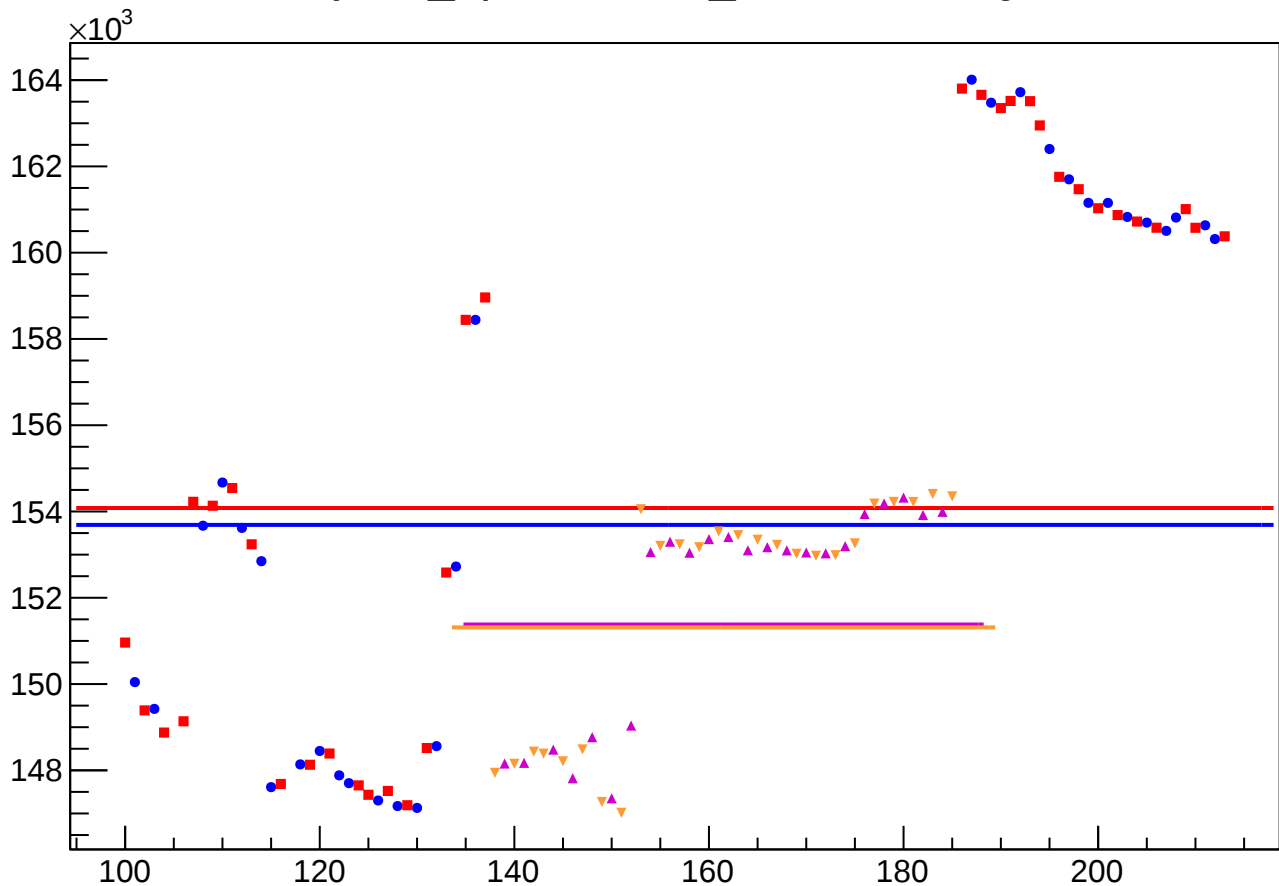
Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

+ sign 0.799 $\pm$ 0.000 χ^2 /NDF: 3748925.4/54

All: 0.795 $\pm$ 0.000 χ^2 /NDF: 7692730.6/111

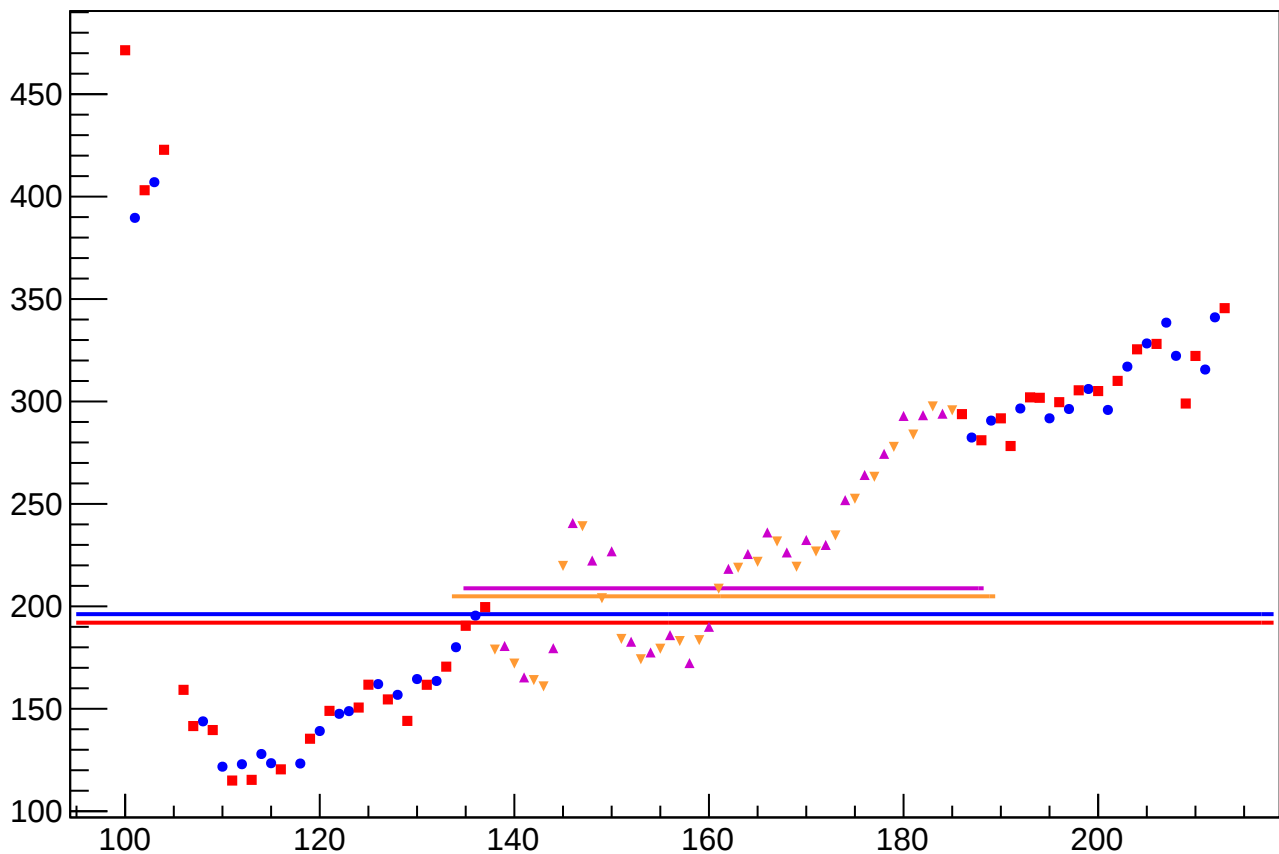
- sign 0.792 $\pm$ 0.000 χ^2 /NDF: 3941872.5/56

yield_bpm0i01WS_mean vs Slug



Right In: 153689.133 $\pm$ 0.054 χ^2 /NDF: 11644435925.1/29
 Left Out: 151313.284 $\pm$ 0.049 χ^2 /NDF: 3153768134.8/24
 Right Out: 154081.066 $\pm$ 0.051 χ^2 /NDF: 12539831057.2/33
 Left In: 151380.236 $\pm$ 0.051 χ^2 /NDF: 2363895785.3/22

yield_bpm0i01WS_rms vs Slug



Right In: 196.192 $\pm$ 0.038 χ^2 /NDF: 4617347.9/29

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 192.028 $\pm$ 0.036 χ^2 /NDF: 5128143.7/33

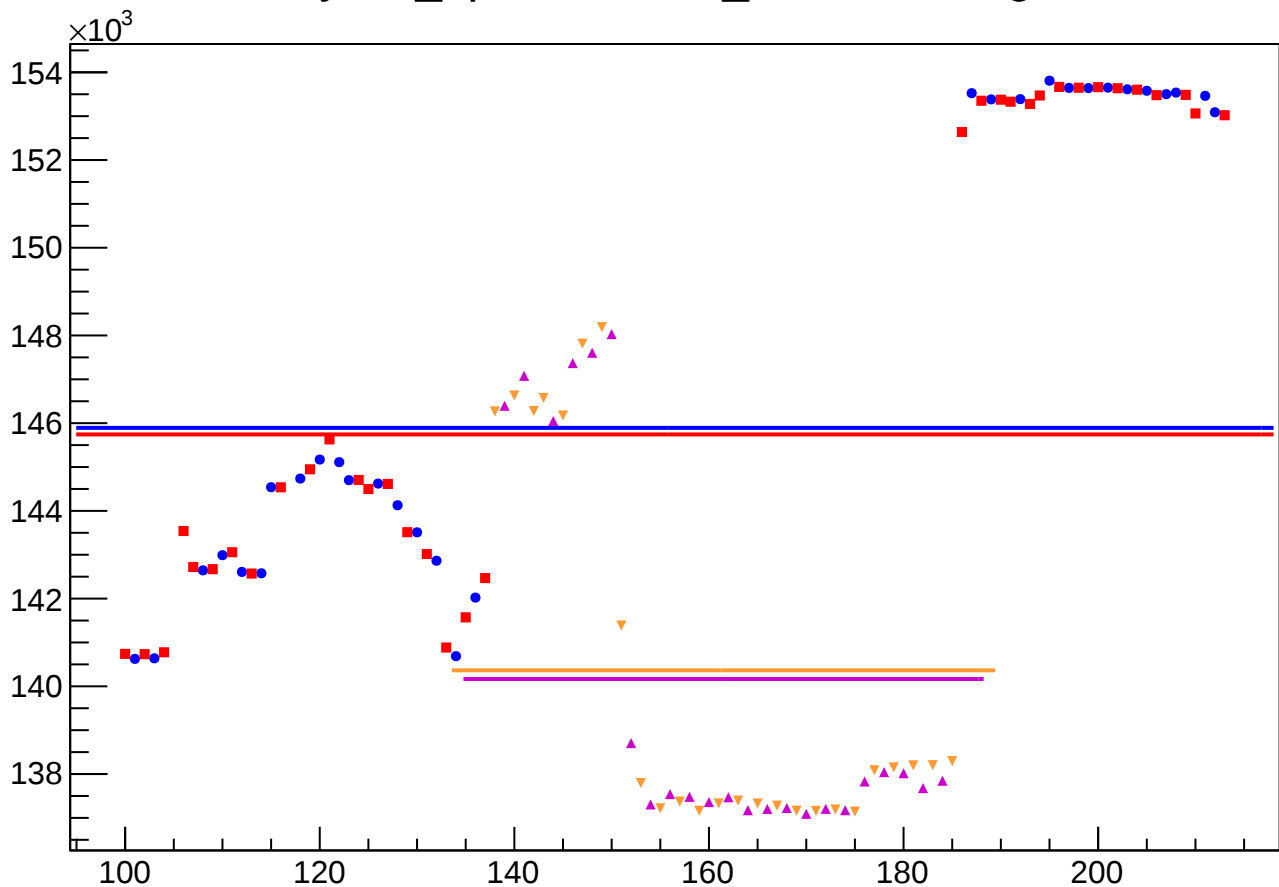
Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

+ sign 200.969 $\pm$ 0.025 χ^2 /NDF: 5702607.2/54

All: 200.660 $\pm$ 0.018 χ^2 /NDF: 11941382.7/11

- sign 200.351 $\pm$ 0.025 χ^2 /NDF: 6238481.1/56

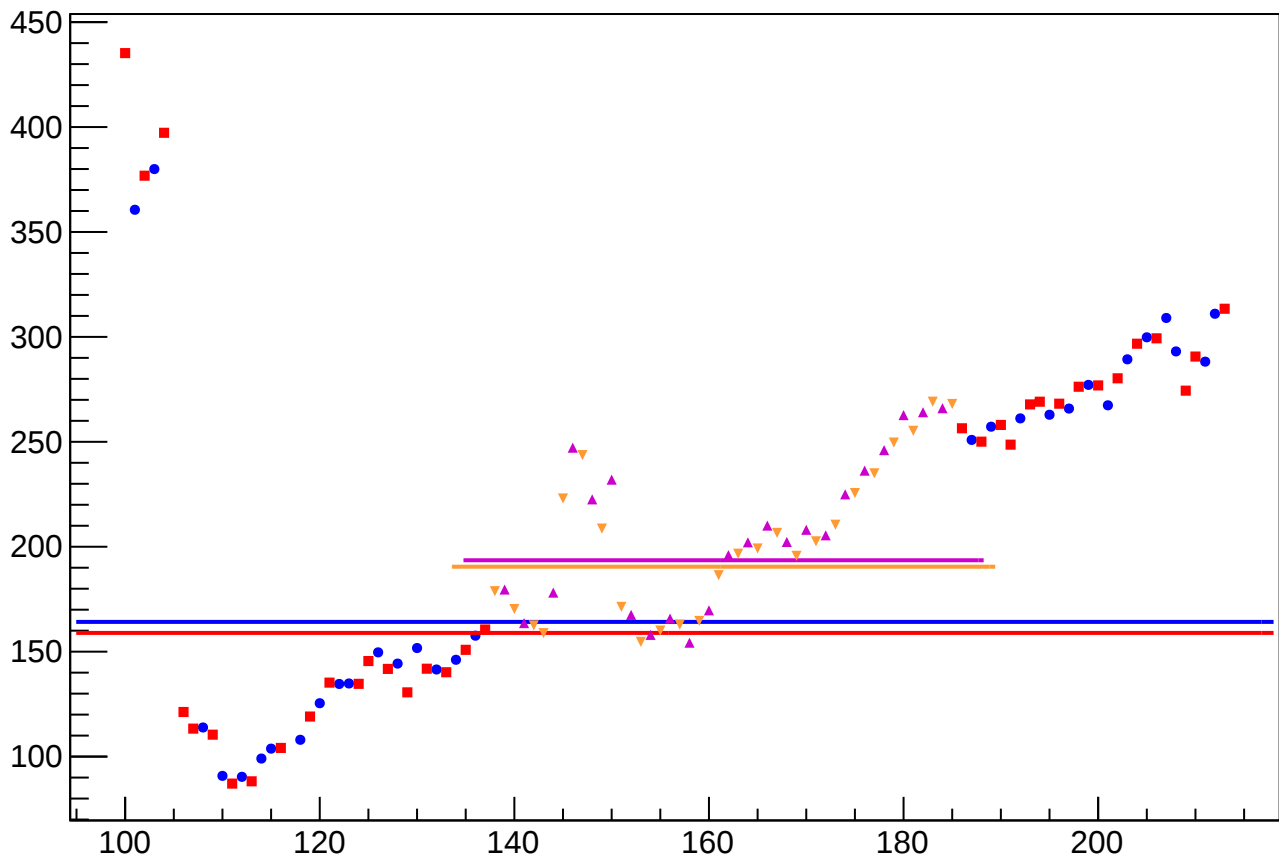
yield_bpm0i01aWS_mean vs Slug



Right In: 145893.134 $\pm$ 0.046 χ^2 /NDF: 9658241250.6/29
 Left Out: 140364.444 $\pm$ 0.045 χ^2 /NDF: 8677078677.7/24
 Right Out: 145743.443 $\pm$ 0.043 χ^2 /NDF: 10944410724.2/33
 Left In: 140166.971 $\pm$ 0.047 χ^2 /NDF: 8028464654.6/22

+ sign 143092.596 $\pm$ 0.032 χ^2 /NDF: 25712116231.7/24
 All: 143170.268 $\pm$ 0.023 χ^2 /NDF: 523224730.0/24
 - sign 143245.888 $\pm$ 0.032 χ^2 /NDF: 26598861705.7/24

yield_bpm0i01aWS_rms vs Slug



Right In: 164.187 $\pm$ 0.032 χ^2 /NDF: 5662670.4/29

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF: 950233.2/24

Right Out: 158.936 $\pm$ 0.030 χ^2 /NDF: 6291419.7/33

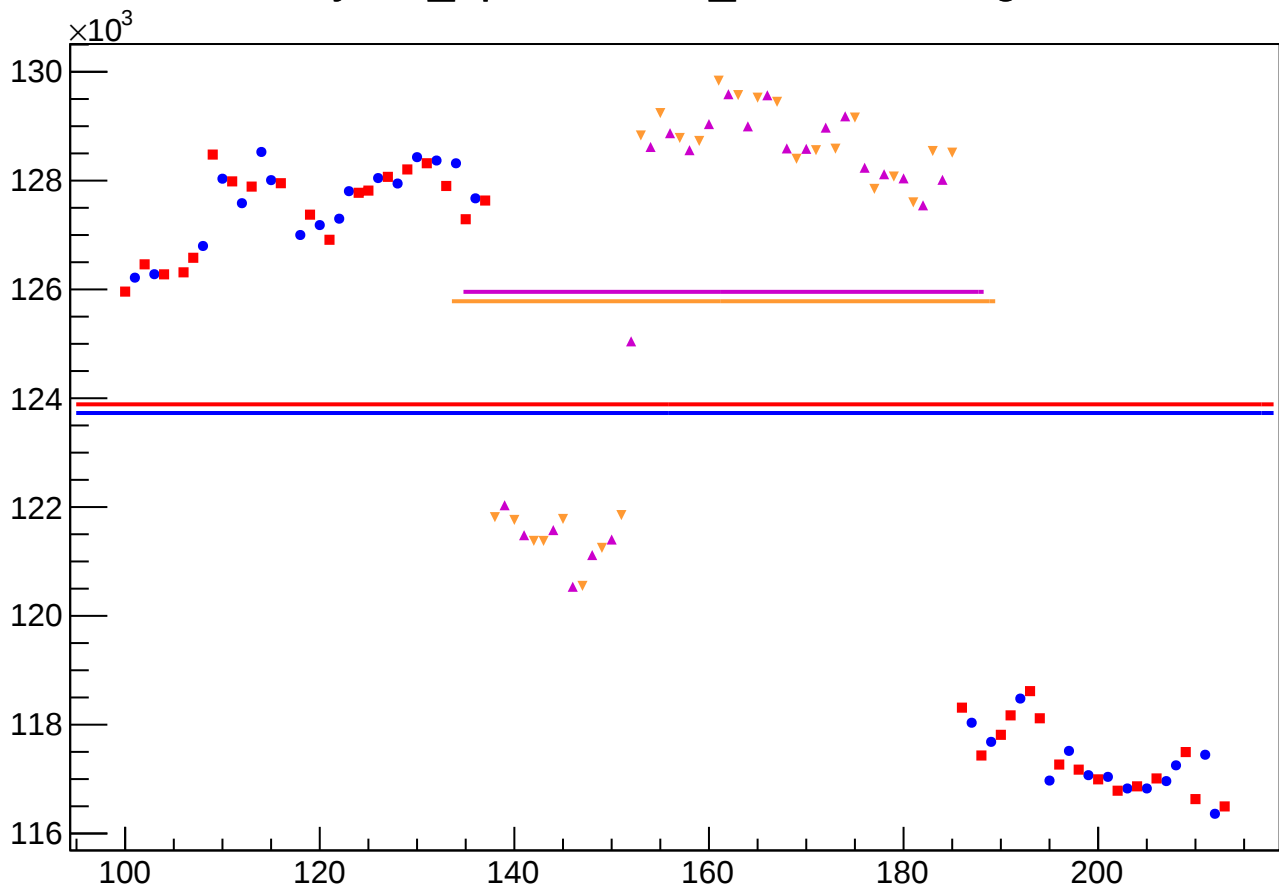
Left In: 193.558 $\pm$ 0.034 χ^2 /NDF: 963675.0/22

+ sign 177.508 $\pm$ 0.023 χ^2 /NDF: 6946743.5/54

All: 175.955 $\pm$ 0.016 χ^2 /NDF: 14798965.9/1

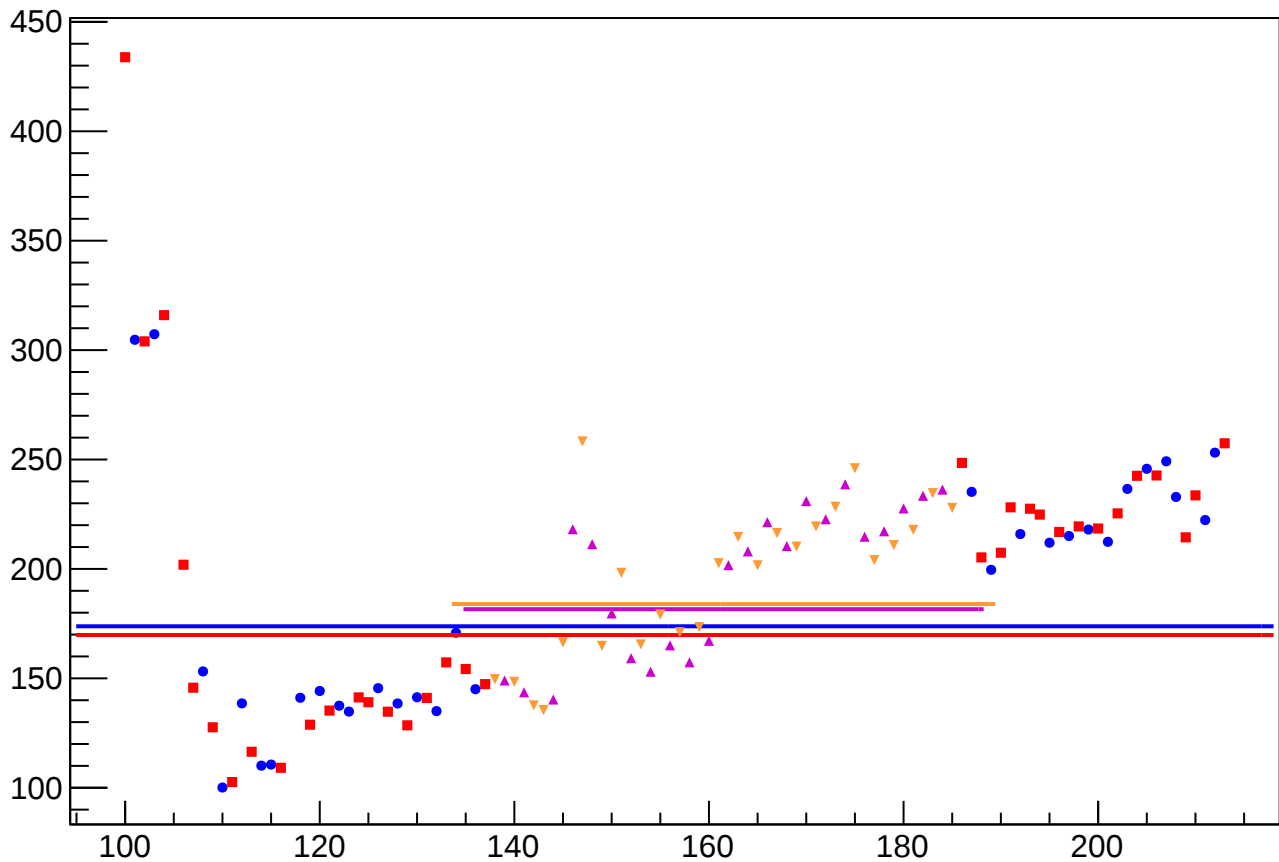
- sign 174.442 $\pm$ 0.022 χ^2 /NDF: 7843023.1/56

yield_bpm0l01WS_mean vs Slug



Right In: 123728.521+/-0.046	χ^2/NDF : 12428551630.8/29	+ sign 124796.539+/-0.032	χ^2/NDF : 20204611474.
Left Out: 125782.764+/-0.044	χ^2/NDF : 6729761889.8/24	All: 124842.240+/-0.022	χ^2/NDF : 406558649
Right Out: 123887.901+/-0.043	χ^2/NDF : 13541637009.1/33	- sign 124886.242+/-0.031	χ^2/NDF : 20447181190.4
Left In: 125955.637+/-0.045	χ^2/NDF : 5804088930.1/22		

yield_bpm0l01WS_rms vs Slug



Right In: 173.788 $\pm$ 0.032 χ^2 /NDF: 2441222.0/29

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 169.794 $\pm$ 0.031 χ^2 /NDF: 2981884.4/33

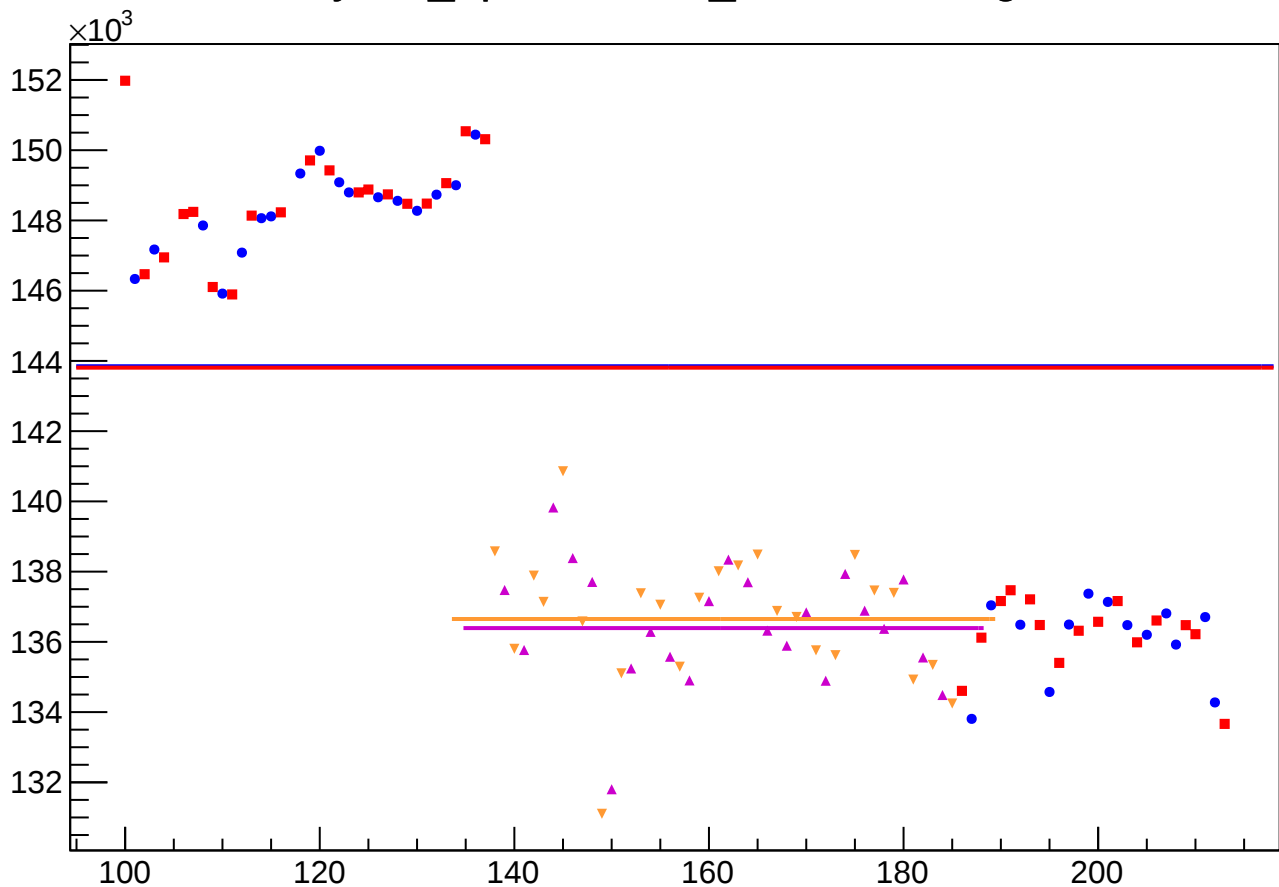
Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

+ sign 179.070 $\pm$ 0.022 χ^2 /NDF: 3615586.2/54

All: 177.247 $\pm$ 0.016 χ^2 /NDF: 7785717.0/111

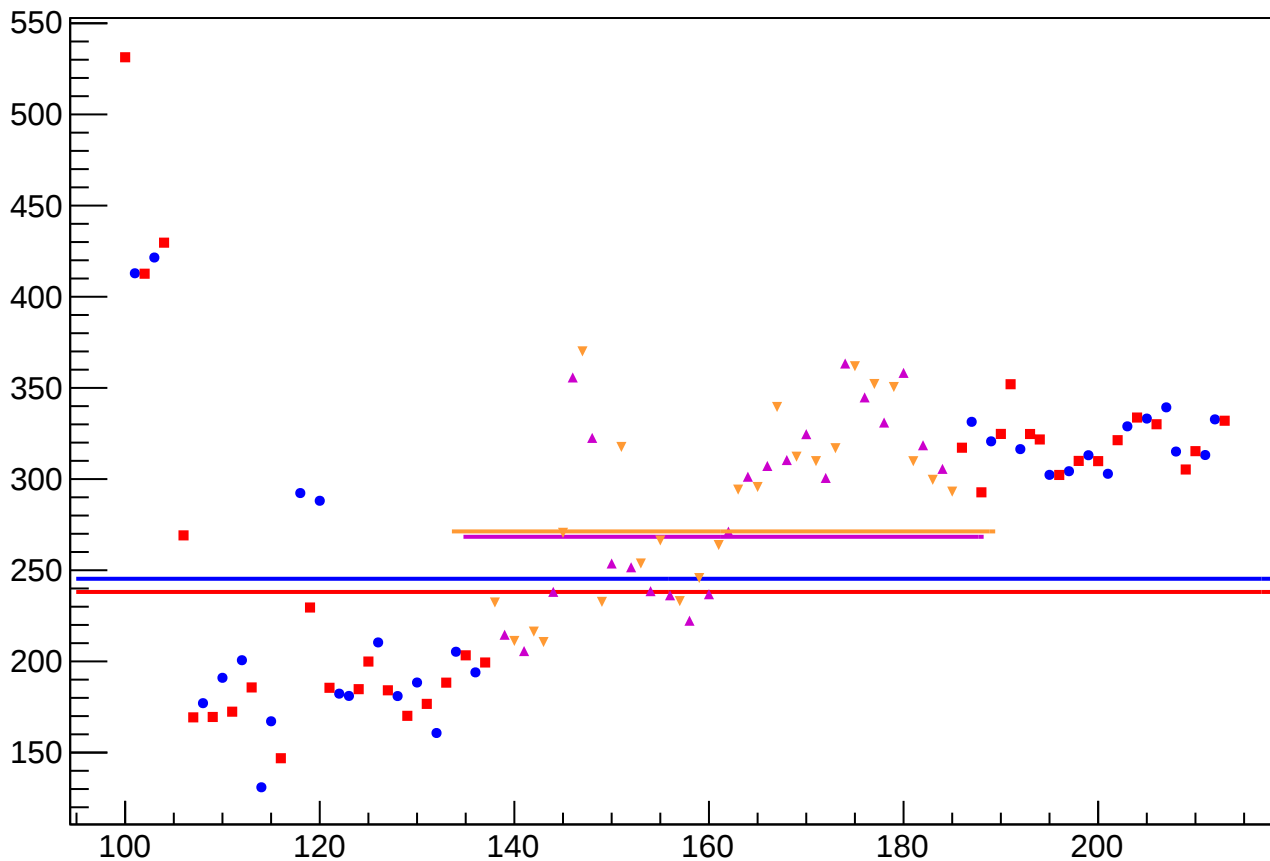
- sign 175.492 $\pm$ 0.022 χ^2 /NDF: 4157174.2/56

yield_bpm0l02WS_mean vs Slug



Right In: 143848.809+/-0.065	χ^2/NDF : 8785760831.3/29	+ sign 140245.161+/-0.046	χ^2/NDF : 15910778728.
Left Out: 136650.935+/-0.065	χ^2/NDF : 930649595.5/24	All: 140329.895+/-0.032	χ^2/NDF : 331513405
Right Out: 143807.810+/-0.061	χ^2/NDF : 9683974740.2/33	- sign 140410.679+/-0.045	χ^2/NDF : 17233854455.3
Left In: 136392.188+/-0.066	χ^2/NDF : 701986841.4/22		

yield_bpm0l02WS_rms vs Slug



Right In: 245.316+/-0.046 χ^2/NDF : 2513309.6/29

Left Out: 271.295+/-0.046 χ^2/NDF :1064485.7/24

Right Out: 238.091+/-0.043 χ^2/NDF : 2840015.0/33

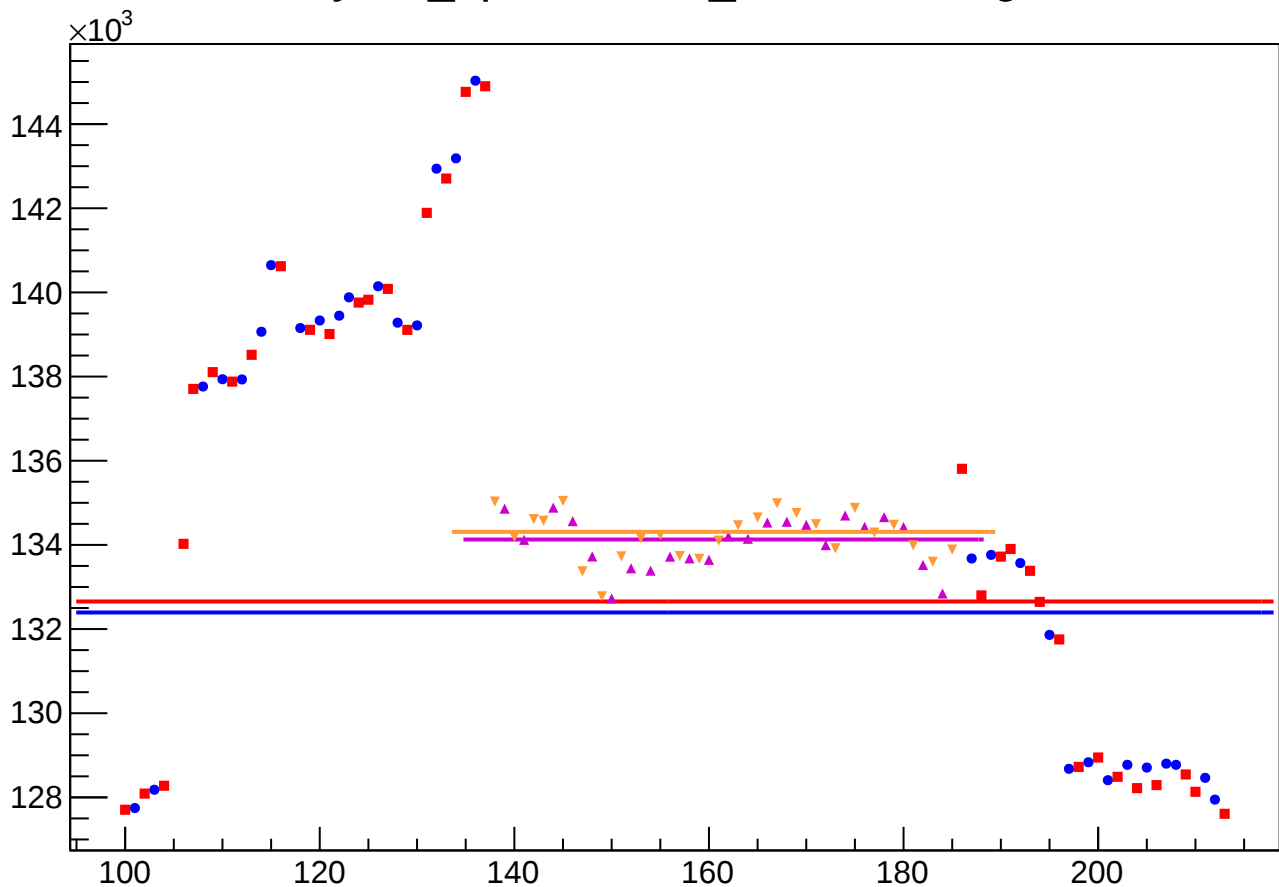
Left In: 268.344+/-0.047 χ^2/NDF :1077364.0/22

+ sign 258.323+/-0.032 χ^2/NDF : 3739180.0/54

All: 255.060+/-0.023 χ^2/NDF : 7904390.0/111

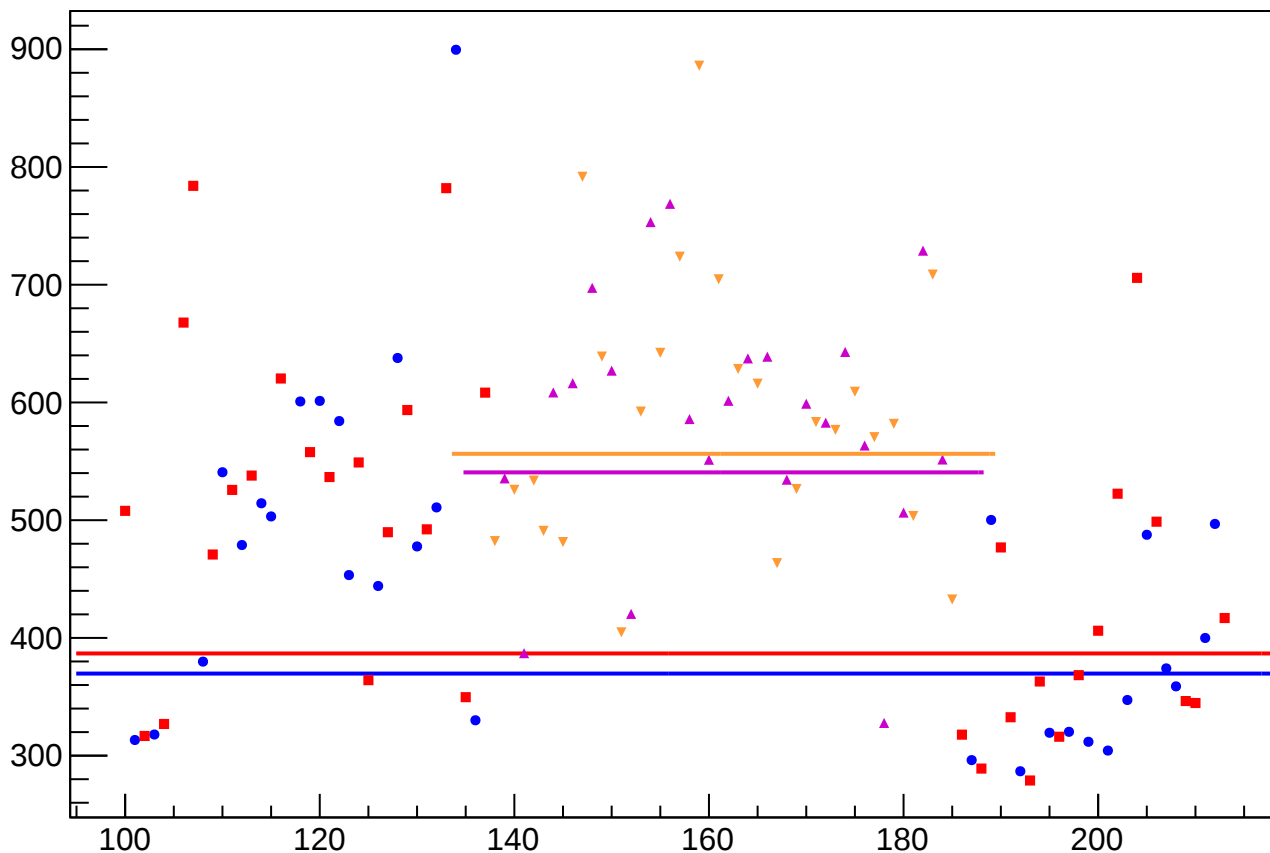
- sign 251.950+/-0.032 χ^2/NDF : 4145322.1/56

yield_bpm0l03WS_mean vs Slug



Right In: 132394.203 ± 0.105 $\chi^2/\text{NDF}: 2677519230.7/29$
 Left Out: 134310.250 ± 0.139 $\chi^2/\text{NDF}: 15518632.9/24$ + sign 133092.751 ± 0.084 $\chi^2/\text{NDF}: 2814550834.6$
 Right Out: 132655.367 ± 0.107 $\chi^2/\text{NDF}: 1938858065.9/33$ All: 133139.239 ± 0.060 $\chi^2/\text{NDF}: 483828307$
 Left In: 134128.172 ± 0.142 $\chi^2/\text{NDF}: 15533736.2/22$ - sign 133187.632 ± 0.085 $\chi^2/\text{NDF}: 2023102033.4/$

yield_bpm0l03WS_rms vs Slug



Right In: 369.723 ± 0.074 $\chi^2/\text{NDF}: 1421643.8/29$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 386.812 ± 0.076 $\chi^2/\text{NDF}: 1940835.4/33$

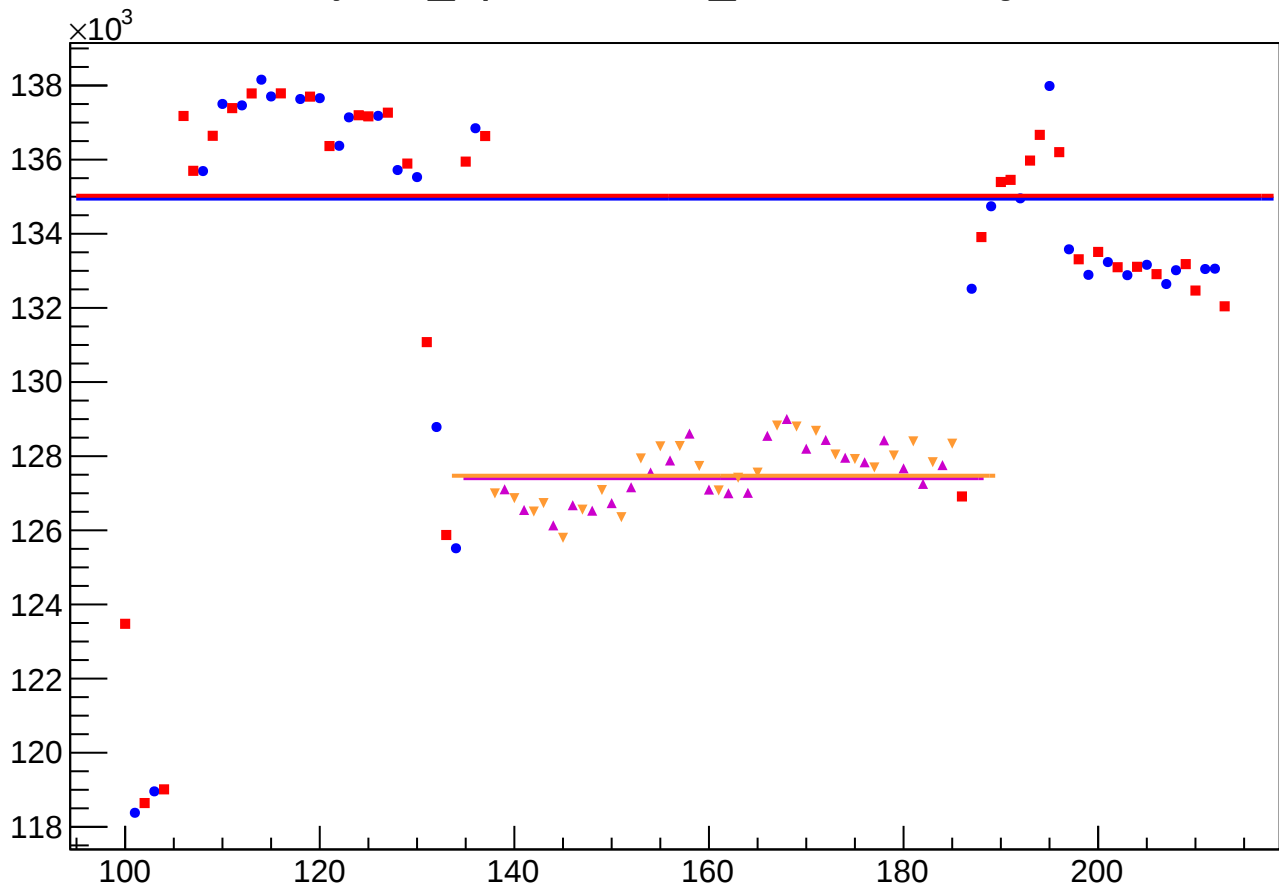
Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

+ sign 437.775 ± 0.059 $\chi^2/\text{NDF}: 4730102.3/54$

All: 440.037 ± 0.042 $\chi^2/\text{NDF}: 9581397.6/111$

- sign 442.393 ± 0.060 $\chi^2/\text{NDF}: 4848309.6/56$

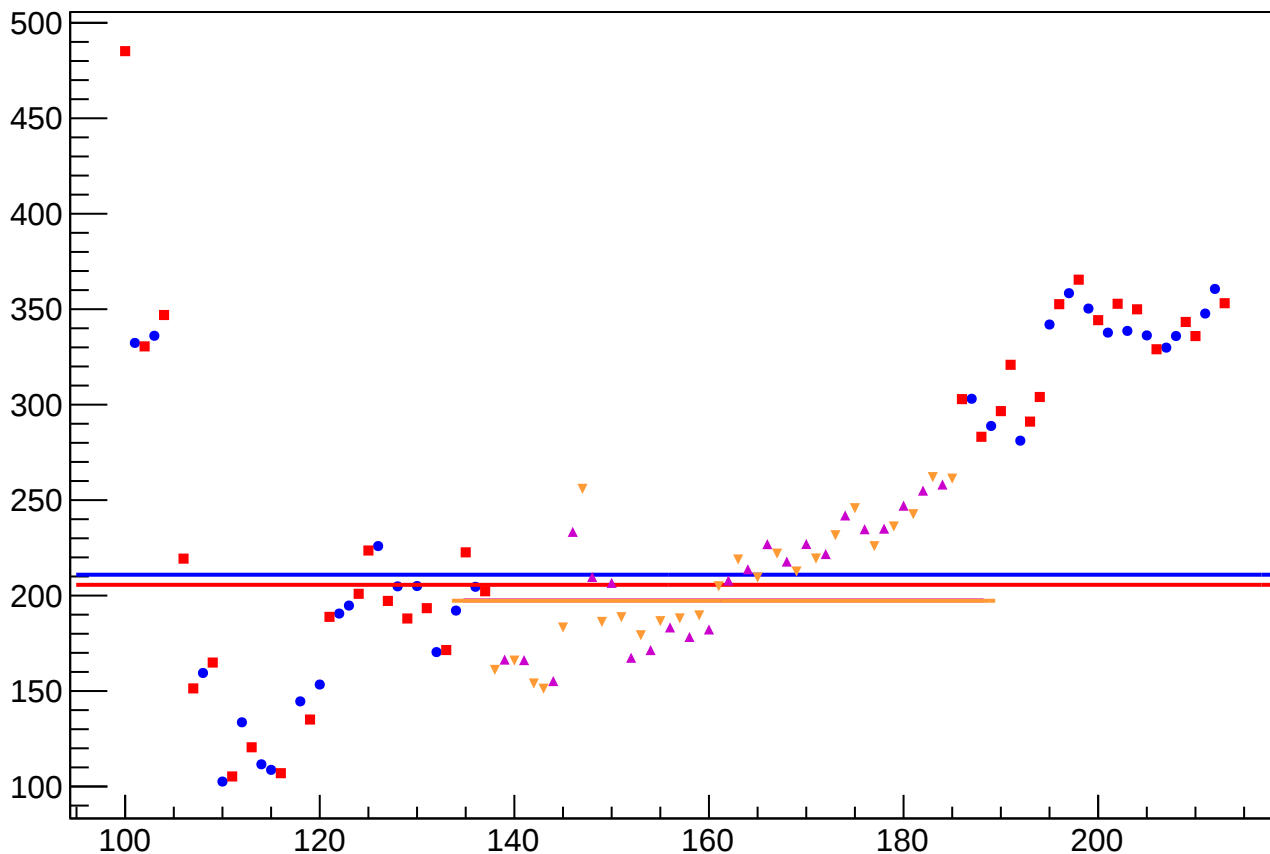
yield_bpm0l04WS_mean vs Slug



Right In: 134949.051 ± 0.058 $\chi^2/\text{NDF}: 4909084489.0/29$
 Left Out: 127472.525 ± 0.047 $\chi^2/\text{NDF}: 303609315.6/24$
 Right Out: 135025.730 ± 0.055 $\chi^2/\text{NDF}: 5331757099.7/33$
 Left In: 127406.911 ± 0.048 $\chi^2/\text{NDF}: 269927988.0/22$

+ sign 130428.033 ± 0.036 $\chi^2/\text{NDF}: 15277508870.0/29$
 All: 130592.921 ± 0.026 $\chi^2/\text{NDF}: 318280000.0/29$
 - sign 130755.737 ± 0.036 $\chi^2/\text{NDF}: 16509789941.4/29$

yield_bpm0l04WS_rms vs Slug



Right In: 210.925 $\pm$ 0.041 χ^2 /NDF: 4653619.8/29

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 205.632 $\pm$ 0.039 χ^2 /NDF: 5281832.3/33

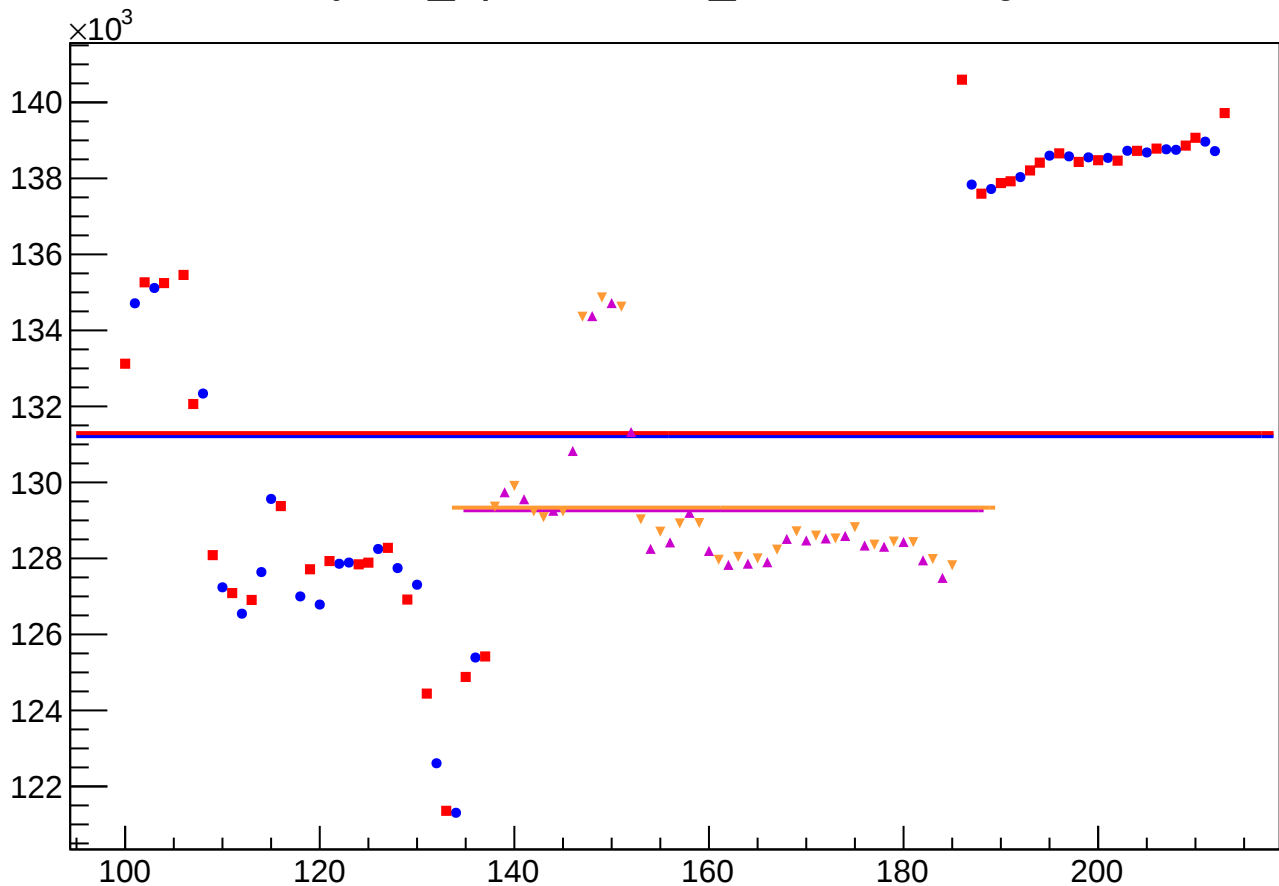
Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

+ sign 202.680 $\pm$ 0.026 χ^2 /NDF: 5572603.4/54

All: 201.864 $\pm$ 0.018 χ^2 /NDF: 11673036.2/116

- sign 201.058 $\pm$ 0.026 χ^2 /NDF: 6098439.3/56

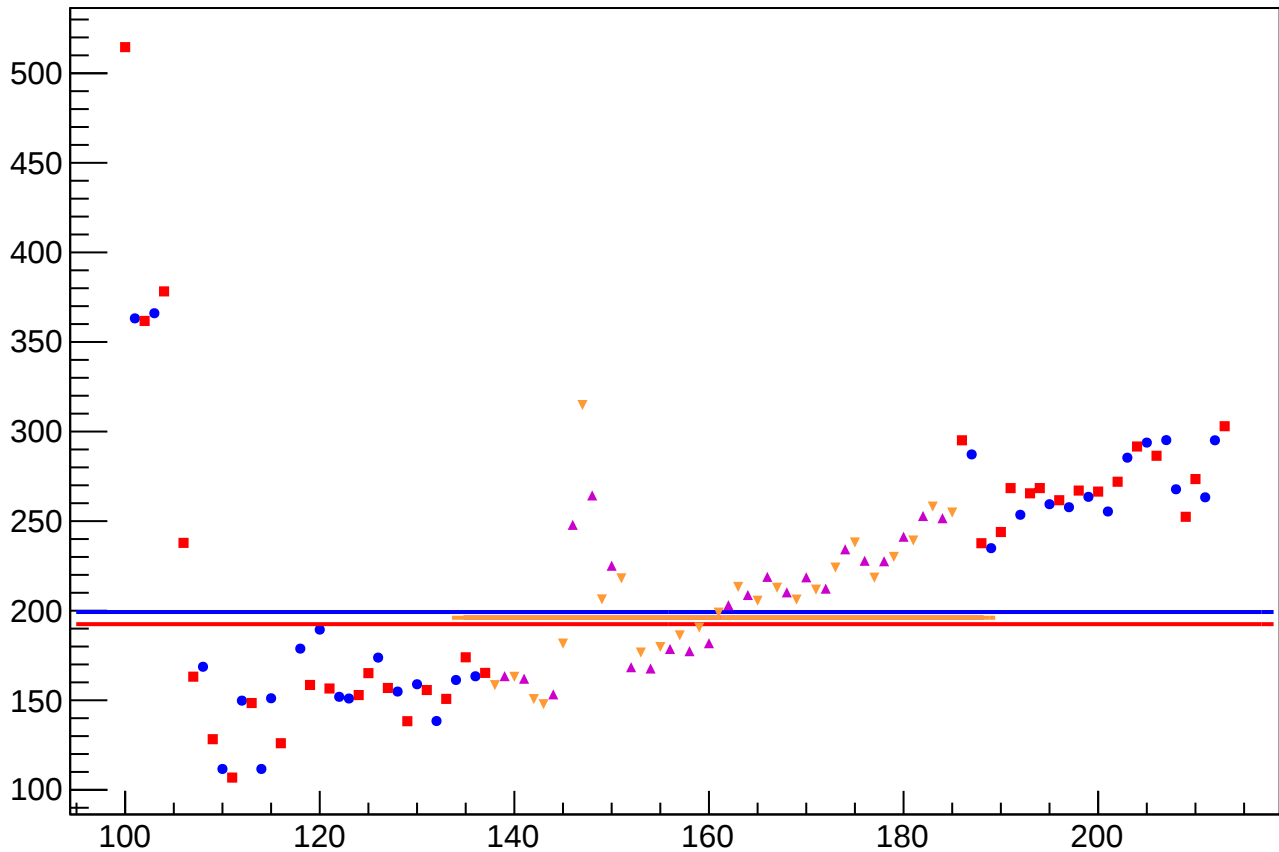
yield_bpm0l05WS_mean vs Slug



Right In: 131216.774 $\pm$ 0.053 χ^2 /NDF: 12434465340.1/29
 Left Out: 129335.946 $\pm$ 0.047 χ^2 /NDF: 1450933621.0/24
 Right Out: 131297.428 $\pm$ 0.050 χ^2 /NDF: 13489160146.0/33
 Left In: 129266.909 $\pm$ 0.048 χ^2 /NDF: 1213762773.1/22

+ sign 130156.466 $\pm$ 0.035 χ^2 /NDF: 14592207242.1
 All: 130203.316 $\pm$ 0.025 χ^2 /NDF: 301585264.1
 - sign 130248.893 $\pm$ 0.035 χ^2 /NDF: 15562801272.8

yield_bpm0l05WS_rms vs Slug



Right In: 199.266 $\pm$ 0.038 χ^2 /NDF: 2901471.9/29

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 192.490 $\pm$ 0.035 χ^2 /NDF: 3608676.5/33

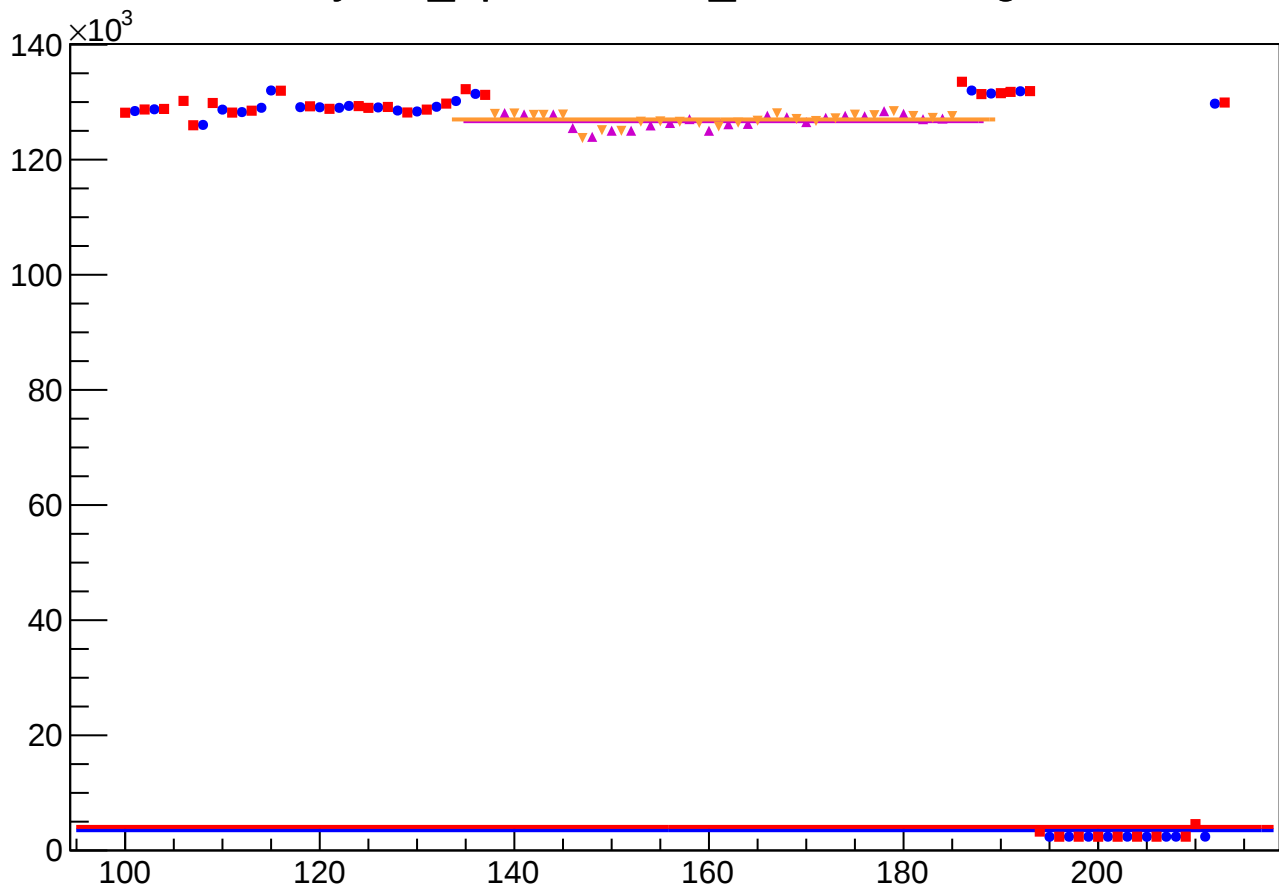
Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

+ sign 197.468 $\pm$ 0.025 χ^2 /NDF: 3881245.0/54

All: 195.912 $\pm$ 0.017 χ^2 /NDF: 8401440.8/111

- sign 194.398 $\pm$ 0.024 χ^2 /NDF: 4512434.0/56

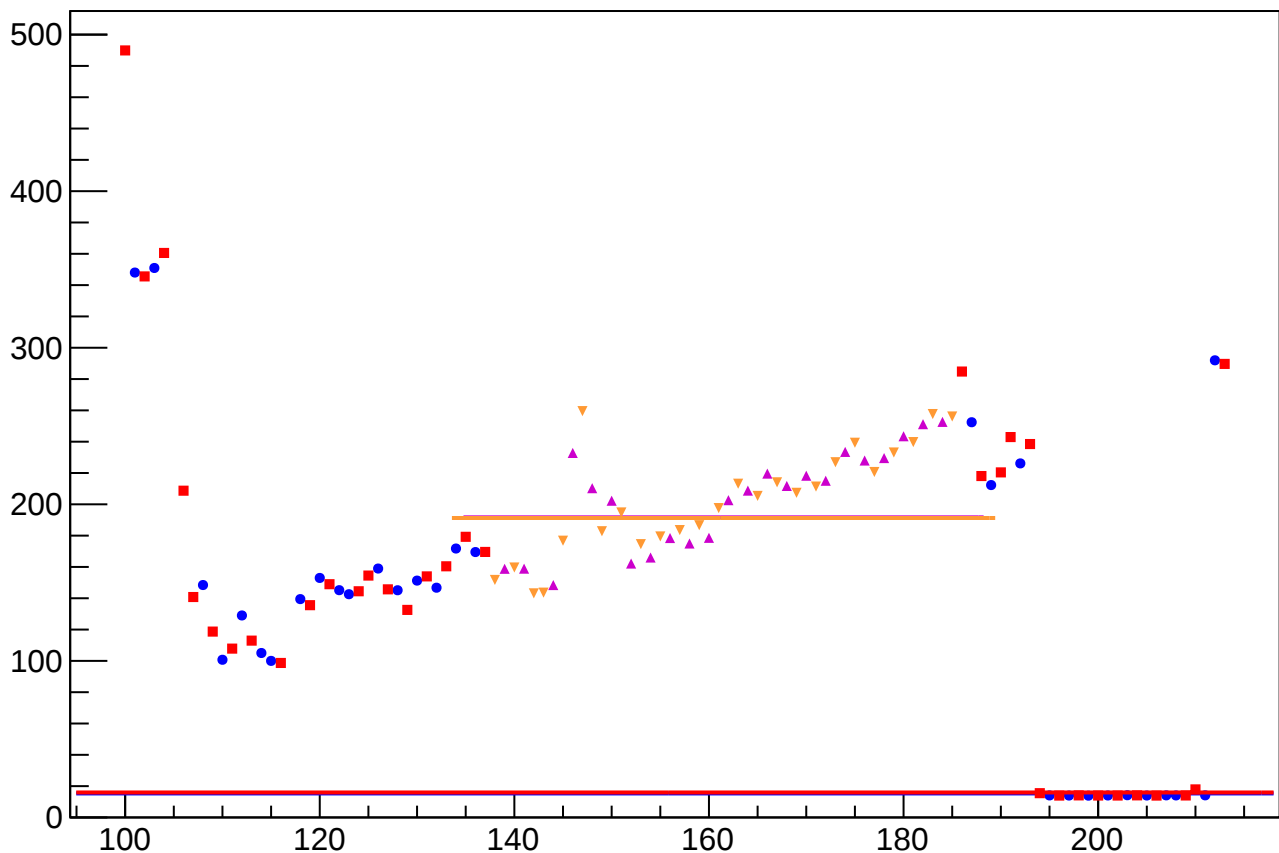
yield_bpm0l06WS_mean vs Slug



Right In: 3518.871 ± 0.005 $\chi^2/\text{NDF}: 5027016469247.0/29$
 Left Out: 126981.724 ± 0.046 $\chi^2/\text{NDF}: 530573115.8/24$
 Right Out: 4090.592 ± 0.006 $\chi^2/\text{NDF}: 5949609375147.4/33$
 Left In: 126682.659 ± 0.047 $\chi^2/\text{NDF}: 660415880.0/22$

+ sign 5177.894 ± 0.005 $\chi^2/\text{NDF}: 12284307438176$
 All: 5531.924 ± 0.004 $\chi^2/\text{NDF}: 24946274142$
 - sign 5960.068 ± 0.006 $\chi^2/\text{NDF}: 12652022413859$

yield_bpm0l06WS_rms vs Slug



Right In: 15.337 $\pm$ 0.004 χ^2 /NDF: 14627946.6/29

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 15.959 $\pm$ 0.004 χ^2 /NDF: 16898982.6/33

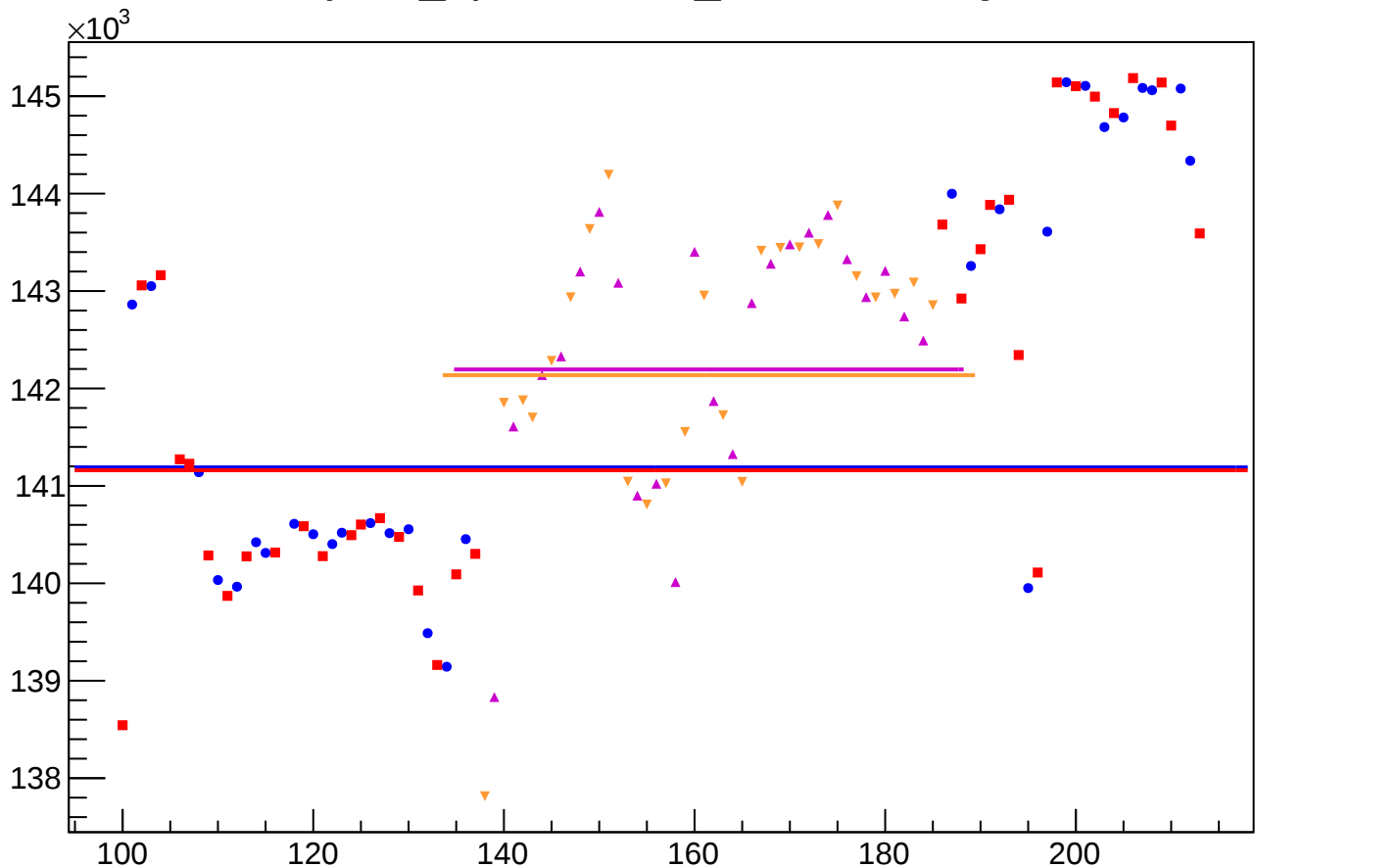
Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

+ sign 17.701 $\pm$ 0.004 χ^2 /NDF: 45089253.5/54

All: 18.125 $\pm$ 0.003 χ^2 /NDF: 90420691.9/111

- sign 18.638 $\pm$ 0.004 χ^2 /NDF: 45302870.8/56

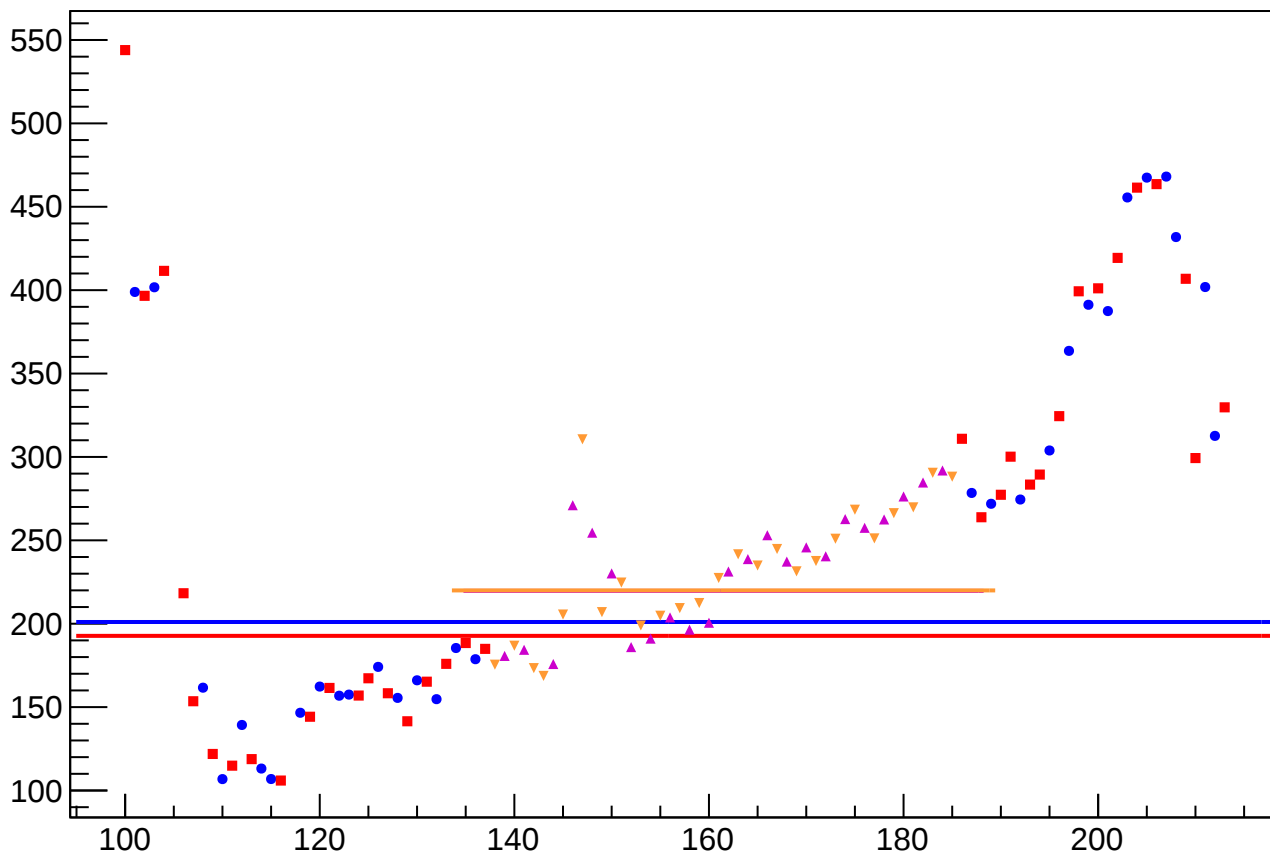
yield_bpm0l07WS_mean vs Slug



Right In: 141190.015 ± 0.057 $\chi^2/\text{NDF}: 918849713.3/29$
 Left Out: 142136.579 ± 0.052 $\chi^2/\text{NDF}: 815573343.0/24$
 Right Out: 141160.341 ± 0.052 $\chi^2/\text{NDF}: 989282746.9/33$
 Left In: 142195.020 ± 0.054 $\chi^2/\text{NDF}: 644030906.9/22$

+ sign 141700.060 ± 0.038 $\chi^2/\text{NDF}: 1885336767.1$
 All: 141679.933 ± 0.027 $\chi^2/\text{NDF}: 370971569$
 - sign 141660.790 ± 0.037 $\chi^2/\text{NDF}: 1823843182.9/$

yield_bpm0l07WS_rms vs Slug



Right In: 201.036+/-0.040 χ^2/NDF : 6014978.6/29

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 192.723+/-0.037 χ^2/NDF : 6442104.1/33

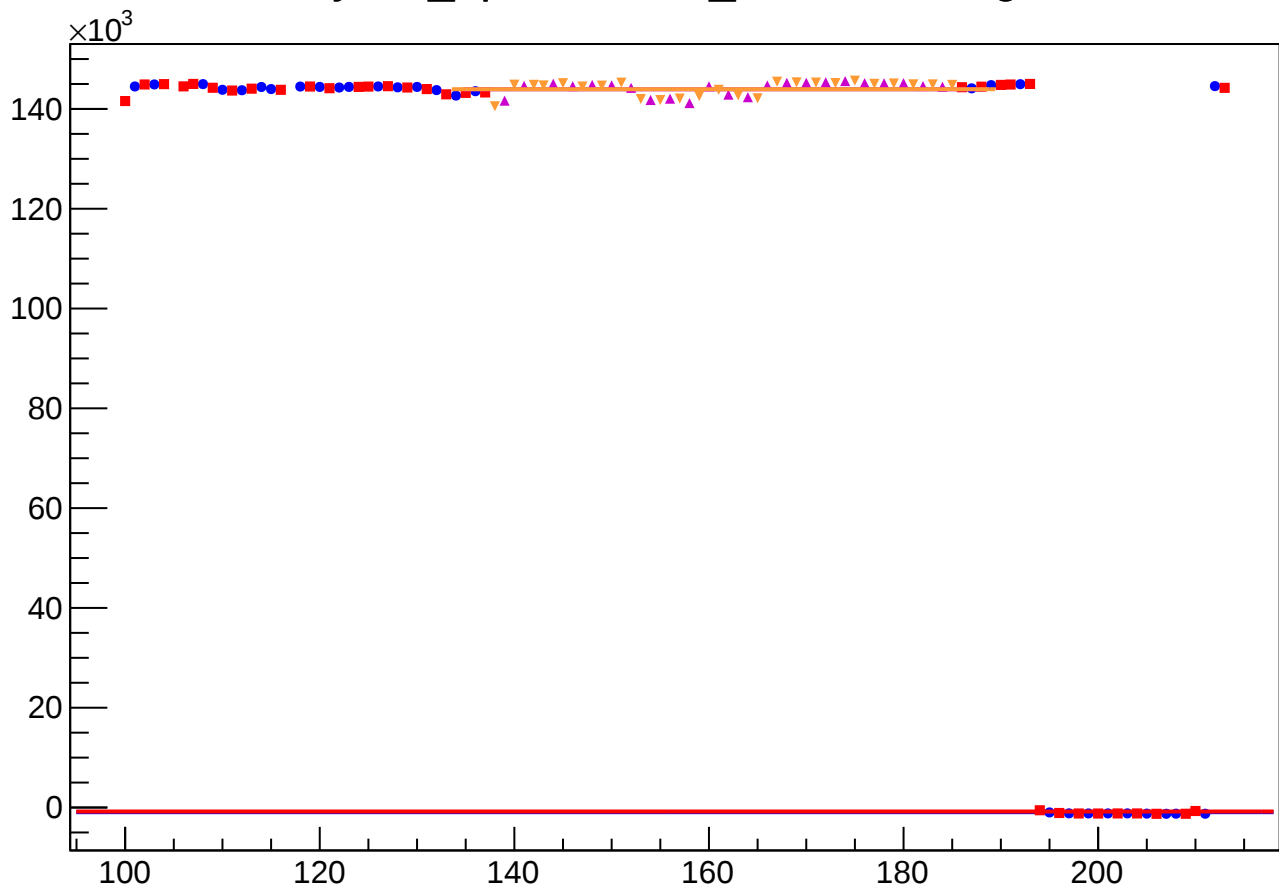
Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

+ sign 211.238+/-0.027 χ^2/NDF : 7002345.0/54

All: 208.432+/-0.019 χ^2/NDF : 14536766.8/1

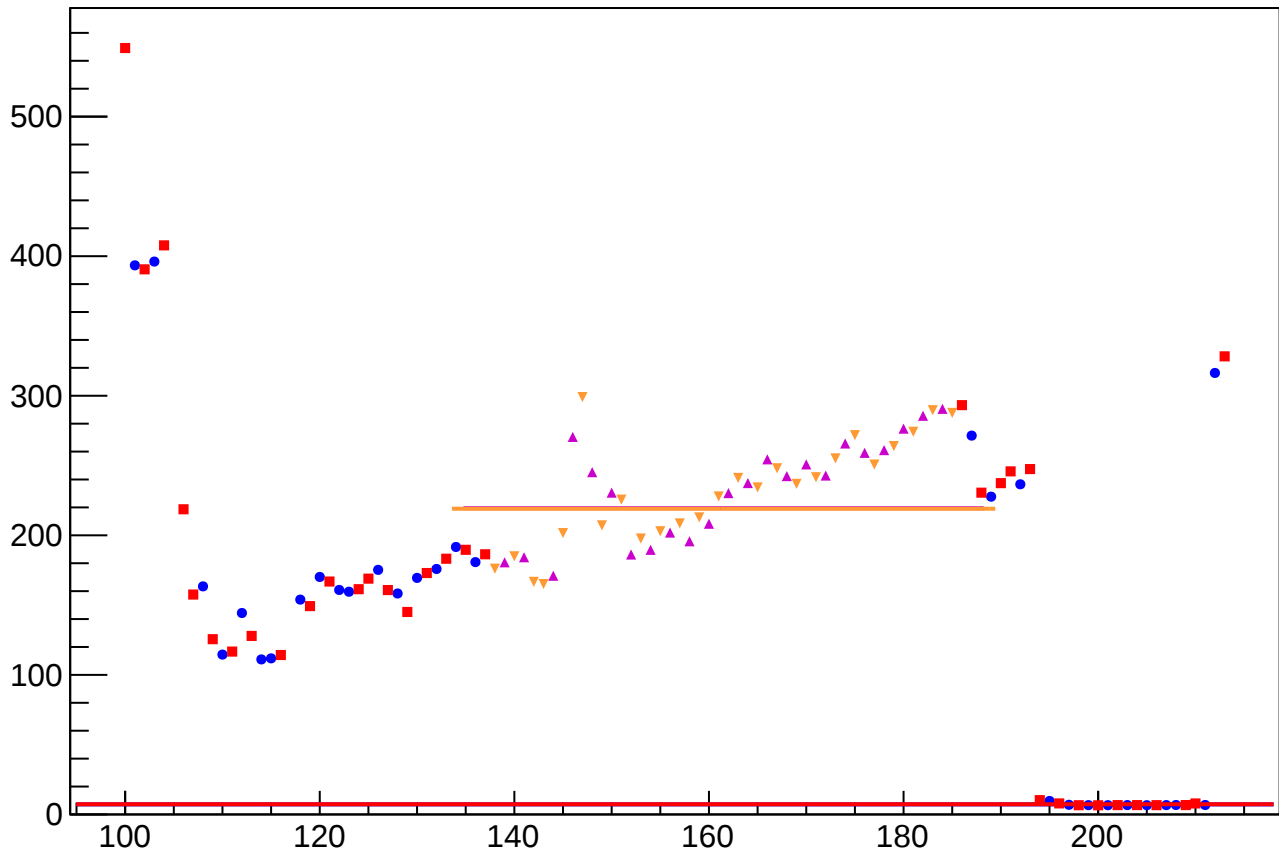
- sign 205.764+/-0.026 χ^2/NDF : 7513598.2/56

yield_bpm0l08WS_mean vs Slug



Right In: -933.201 ± 0.003 χ^2/NDF : 5455631387938.1/29
 Left Out: 143951.284 ± 0.052 χ^2/NDF : 864679545.2/24
 Right Out: -800.010 ± 0.003 χ^2/NDF : 6545442711476.7/33
 Left In: 143938.288 ± 0.054 χ^2/NDF : 719814685.6/22
 All: -481.795 ± 0.002 χ^2/NDF : 26913724109
 + sign -563.789 ± 0.003 χ^2/NDF : 13159586511479
 - sign -382.975 ± 0.003 χ^2/NDF : 13751998379235

yield_bpm0l08WS_rms vs Slug



Right In: 7.208 ± 0.002 $\chi^2/\text{NDF}: 16340396.6/29$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.321 ± 0.002 $\chi^2/\text{NDF}: 18867640.7/33$

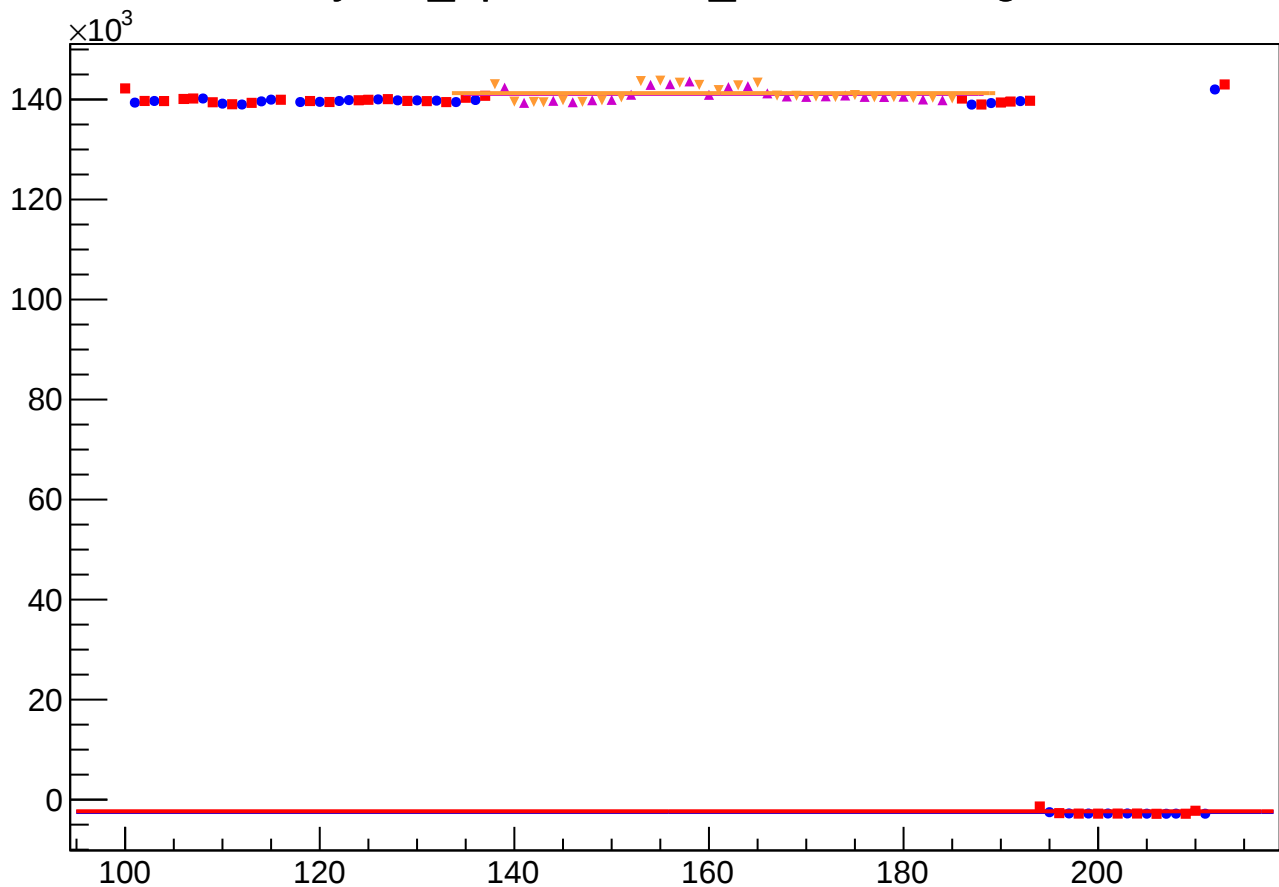
Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

+ sign 7.748 ± 0.002 $\chi^2/\text{NDF}: 50211133.3/54$

All: 7.831 ± 0.001 $\chi^2/\text{NDF}: 100882474.1/111$

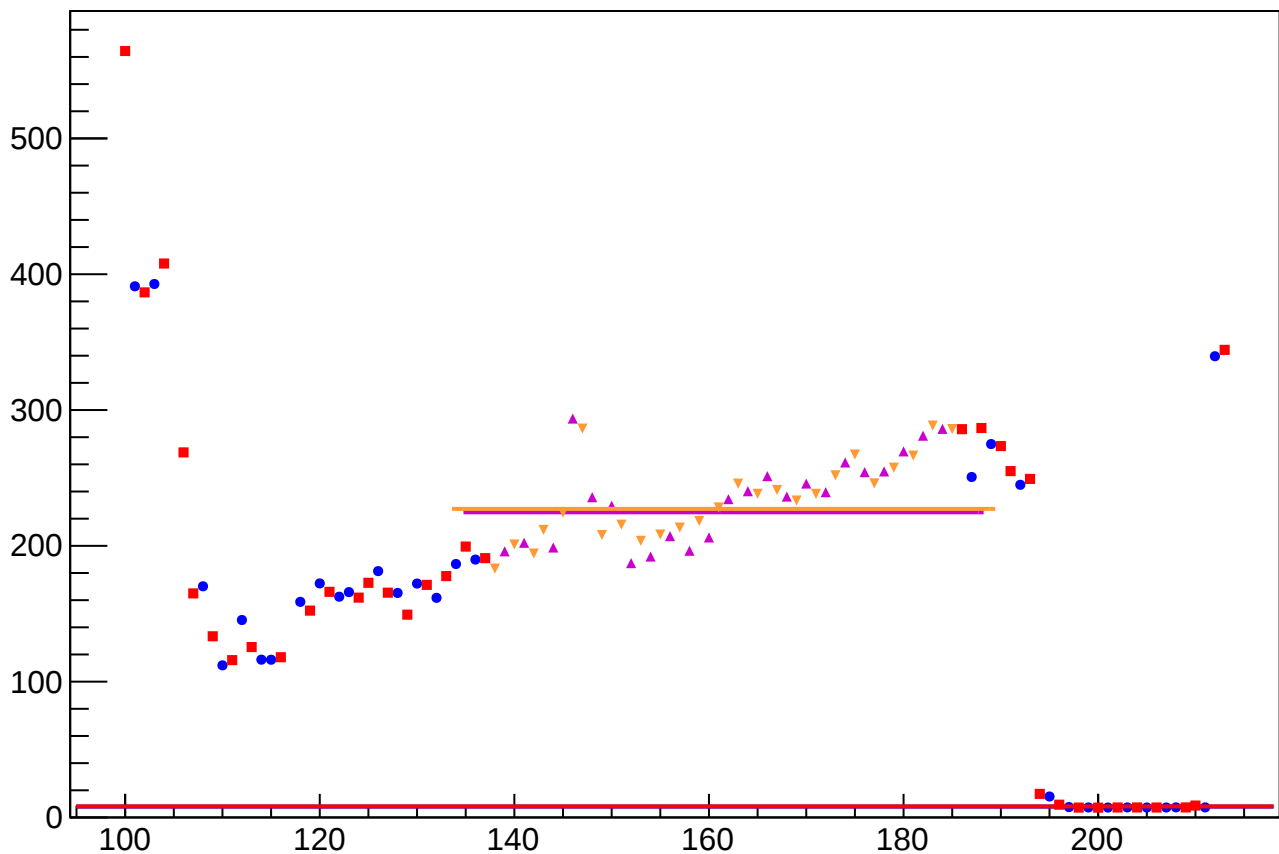
- sign 7.932 ± 0.002 $\chi^2/\text{NDF}: 50666909.0/56$

yield_bpm0l09WS_mean vs Slug



Right In: -2473.698 ± 0.003 χ^2/NDF : 5001125564744.8/29
 Left Out: 141268.791 ± 0.054 χ^2/NDF : 795989244.2/24
 Right Out: -2327.246 ± 0.003 χ^2/NDF : 5921513755819.4/33
 Left In: 141119.484 ± 0.055 χ^2/NDF : 565312728.1/22
 All: -1945.360 ± 0.002 χ^2/NDF : 2486986379
 + sign -2041.269 ± 0.003 χ^2/NDF : 1214572989074
 - sign -1829.723 ± 0.003 χ^2/NDF : 12721795077192

yield_bpm0l09WS_rms vs Slug



Right In: 8.000 ± 0.002 $\chi^2/\text{NDF}: 16497044.5/29$

Left Out: 227.224 ± 0.038 $\chi^2/\text{NDF}: 484955.3/24$

Right Out: 8.144 ± 0.002 $\chi^2/\text{NDF}: 18904667.9/33$

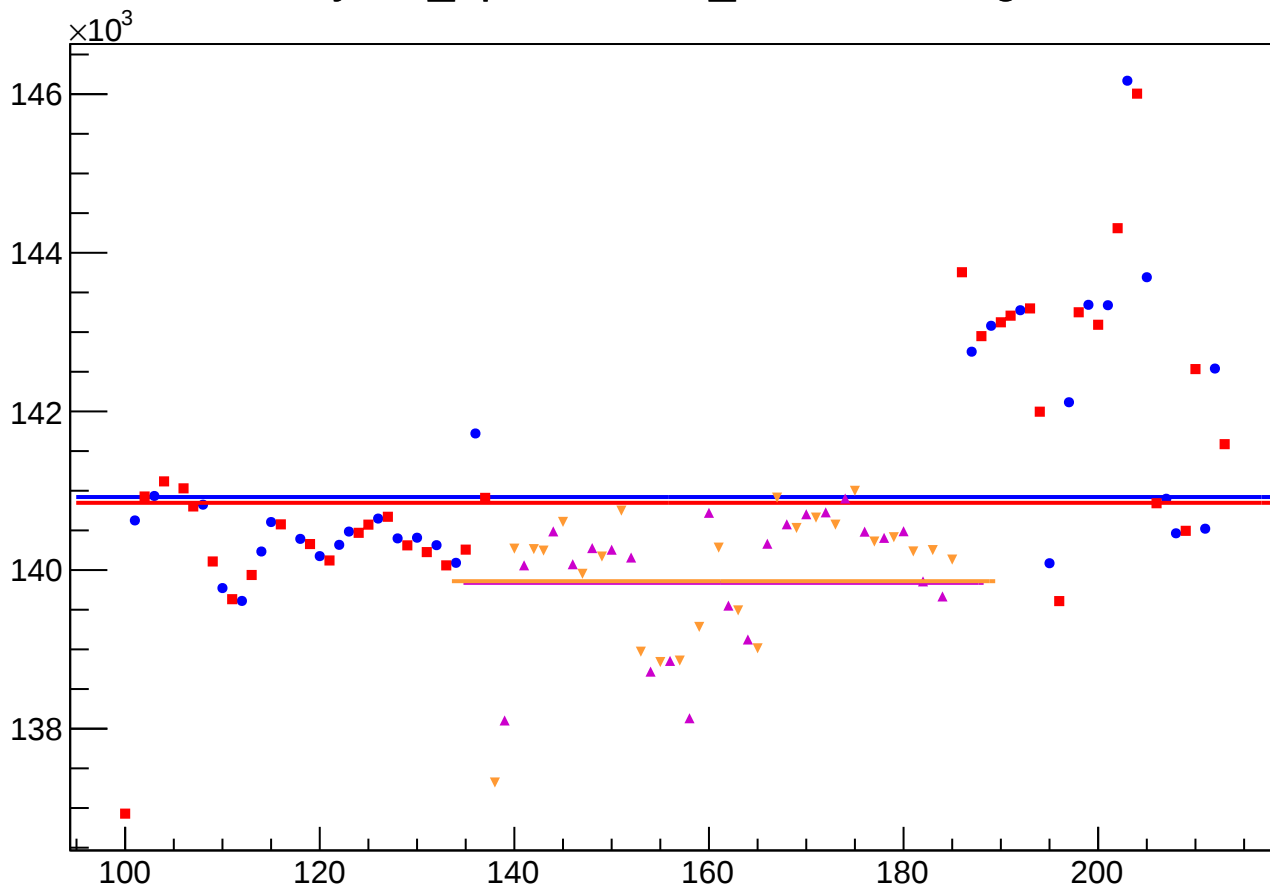
Left In: 224.686 ± 0.039 $\chi^2/\text{NDF}: 578366.0/22$

+ sign 8.659 ± 0.002 $\chi^2/\text{NDF}: 50214832.8/54$

All: 8.766 ± 0.002 $\chi^2/\text{NDF}: 100693858.9/111$

- sign 8.895 ± 0.002 $\chi^2/\text{NDF}: 50473189.1/56$

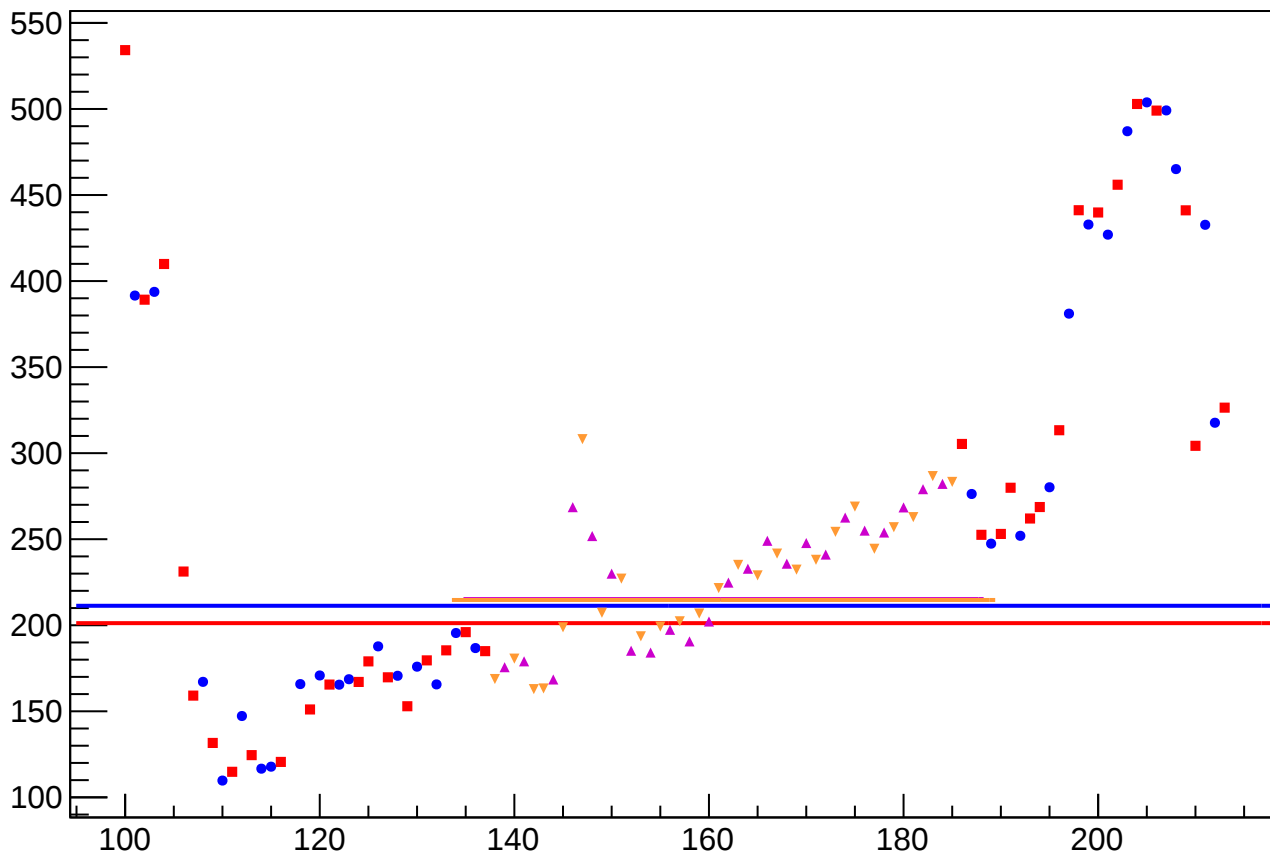
yield_bpm0l10WS_mean vs Slug



Right In: 140920.698 $\pm$ 0.059 χ^2 /NDF: 448955266.5/29
 Left Out: 139859.696 $\pm$ 0.051 χ^2 /NDF:330118281.5/24
 Right Out: 140847.722 $\pm$ 0.054 χ^2 /NDF: 529662694.7/33
 Left In: 139838.724 $\pm$ 0.053 χ^2 /NDF:279573689.3/22

+ sign 140312.292 $\pm$ 0.039 χ^2 /NDF: 962996236.1/5
 All: 140321.817 $\pm$ 0.027 χ^2 /NDF: 195049311.5/5
 - sign 140330.902 $\pm$ 0.038 χ^2 /NDF: 987378469.9/5

yield_bpm0l10WS_rms vs Slug



Right In: 211.317 $\pm$ 0.042 χ^2 /NDF: 5746438.1/29

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 201.224 $\pm$ 0.038 χ^2 /NDF: 6043330.1/33

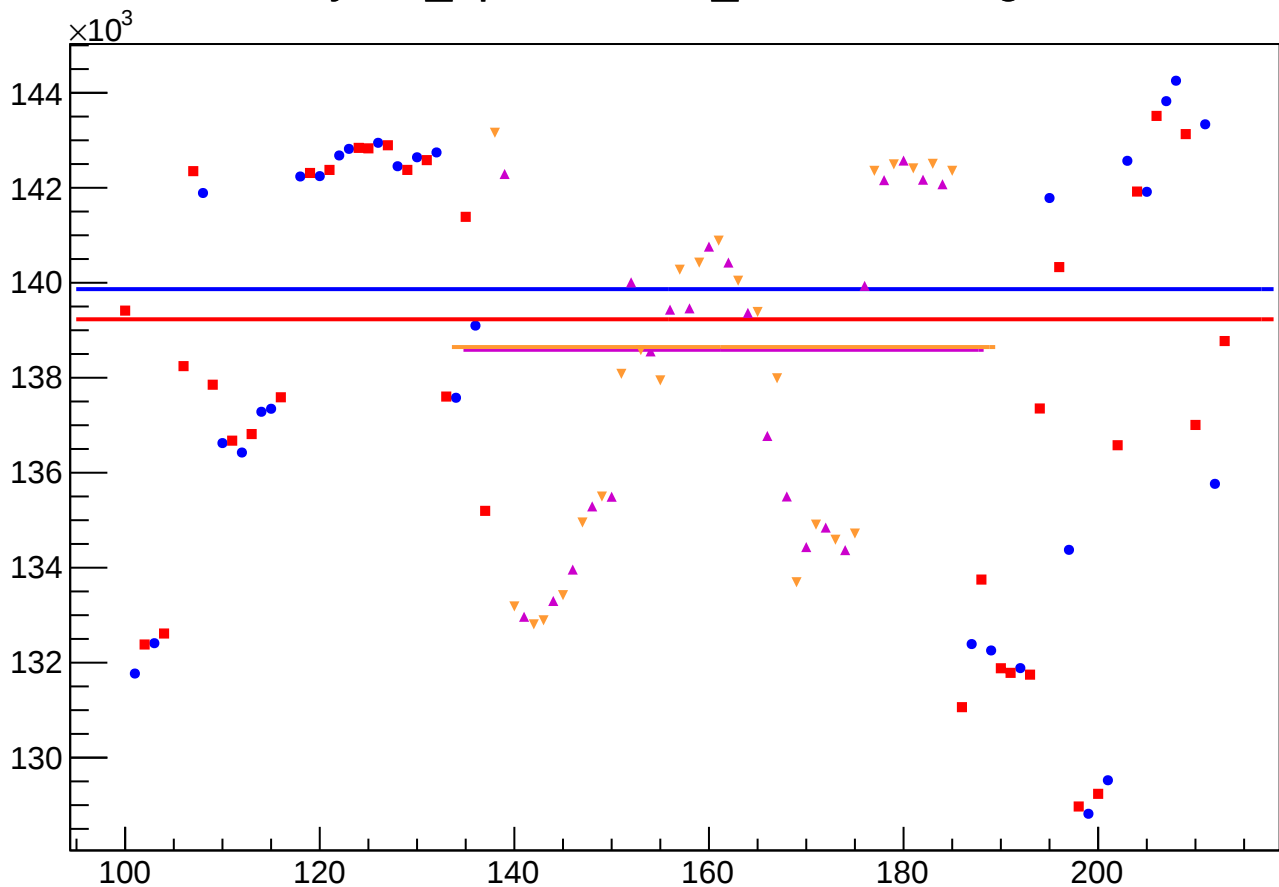
Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

+ sign 213.253 $\pm$ 0.027 χ^2 /NDF: 6731266.7/54

All: 210.766 $\pm$ 0.019 χ^2 /NDF: 13741258.9/137

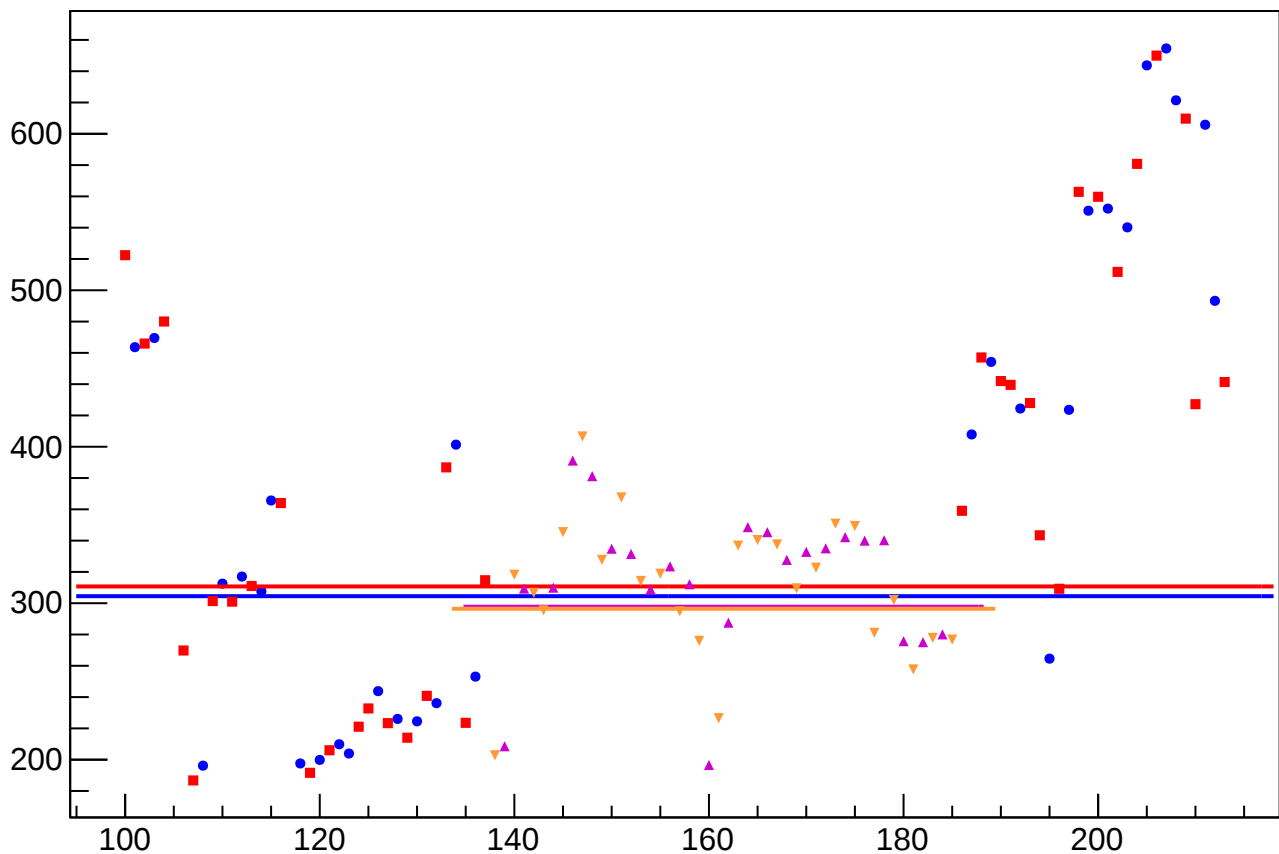
- sign 208.394 $\pm$ 0.027 χ^2 /NDF: 6993848.0/56

yield_bpm0r03WS_mean vs Slug



Right In: 139865.953 $\pm$ 0.084	χ^2 /NDF: 2332416655.3/29	+ sign 139152.723 $\pm$ 0.054	χ^2 /NDF: 5004077165.8
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	All: 139016.267 $\pm$ 0.038	χ^2 /NDF: 943528726
Right Out: 139230.972 $\pm$ 0.082	χ^2 /NDF: 2436174988.8/33	- sign 138877.424 $\pm$ 0.055	χ^2 /NDF: 4418413450.7
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22		

yield_bpm0r03WS_rms vs Slug



Right In: 304.491 ± 0.059 $\chi^2/\text{NDF}: 4724358.0/29$

Left Out: 296.464 ± 0.050 $\chi^2/\text{NDF}: 893579.7/24$

Right Out: 310.714 ± 0.058 $\chi^2/\text{NDF}: 4389447.8/33$

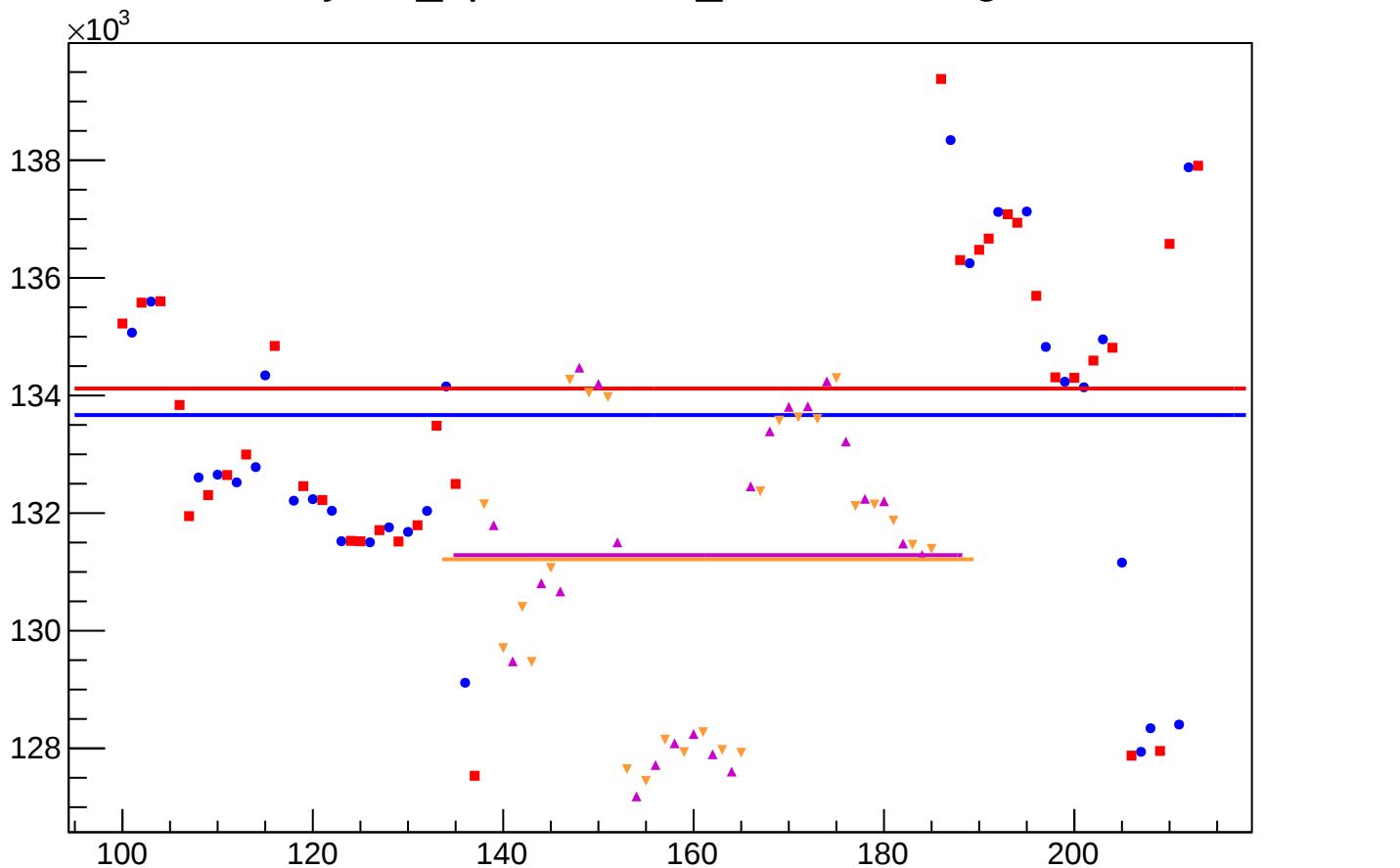
Left In: 297.774 ± 0.052 $\chi^2/\text{NDF}: 1061489.5/22$

+ sign 299.797 ± 0.038 $\chi^2/\text{NDF}: 5628596.2/54$

All: 301.678 ± 0.027 $\chi^2/\text{NDF}: 11112136.6/111$

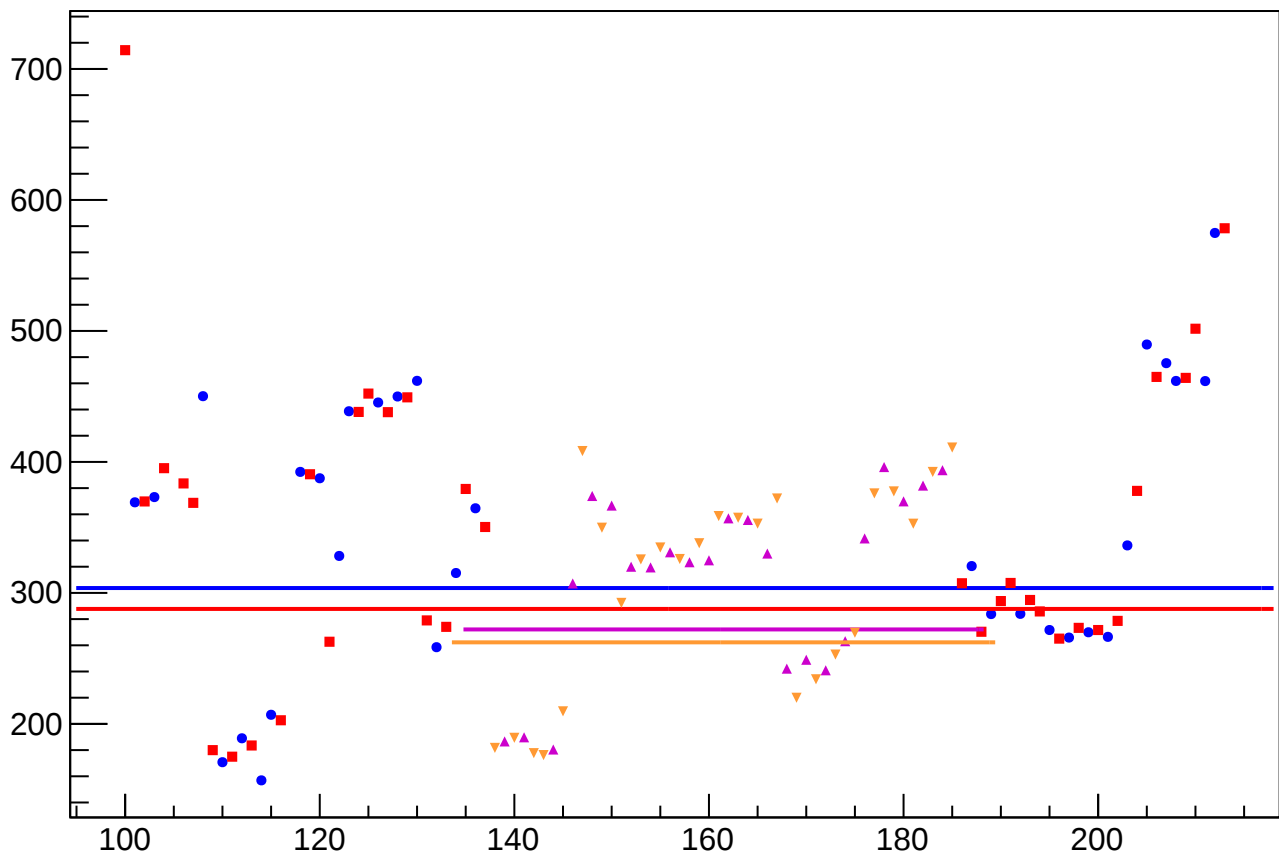
- sign 303.591 ± 0.039 $\chi^2/\text{NDF}: 5478679.8/56$

yield_bpm0r05WS_mean vs Slug



Right In: 133667.831 $\pm$ 0.080 χ^2 /NDF: 974661005.0/29
 Left Out: 131214.985 $\pm$ 0.064 χ^2 /NDF: 1173424494.6/24
 Right Out: 134118.493 $\pm$ 0.074 χ^2 /NDF: 1025121149.8/33
 Left In: 131285.623 $\pm$ 0.068 χ^2 /NDF: 1056232192.1/22
 + sign 132171.424 $\pm$ 0.050 χ^2 /NDF: 2715226037.2
 All: 132385.817 $\pm$ 0.035 χ^2 /NDF: 562942613
 - sign 132598.657 $\pm$ 0.050 χ^2 /NDF: 2877904211.0

yield_bpm0r05WS_rms vs Slug



Right In: 303.720 ± 0.057 $\chi^2/\text{NDF}: 2784023.9/29$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 287.772 ± 0.052 $\chi^2/\text{NDF}: 2941402.7/33$

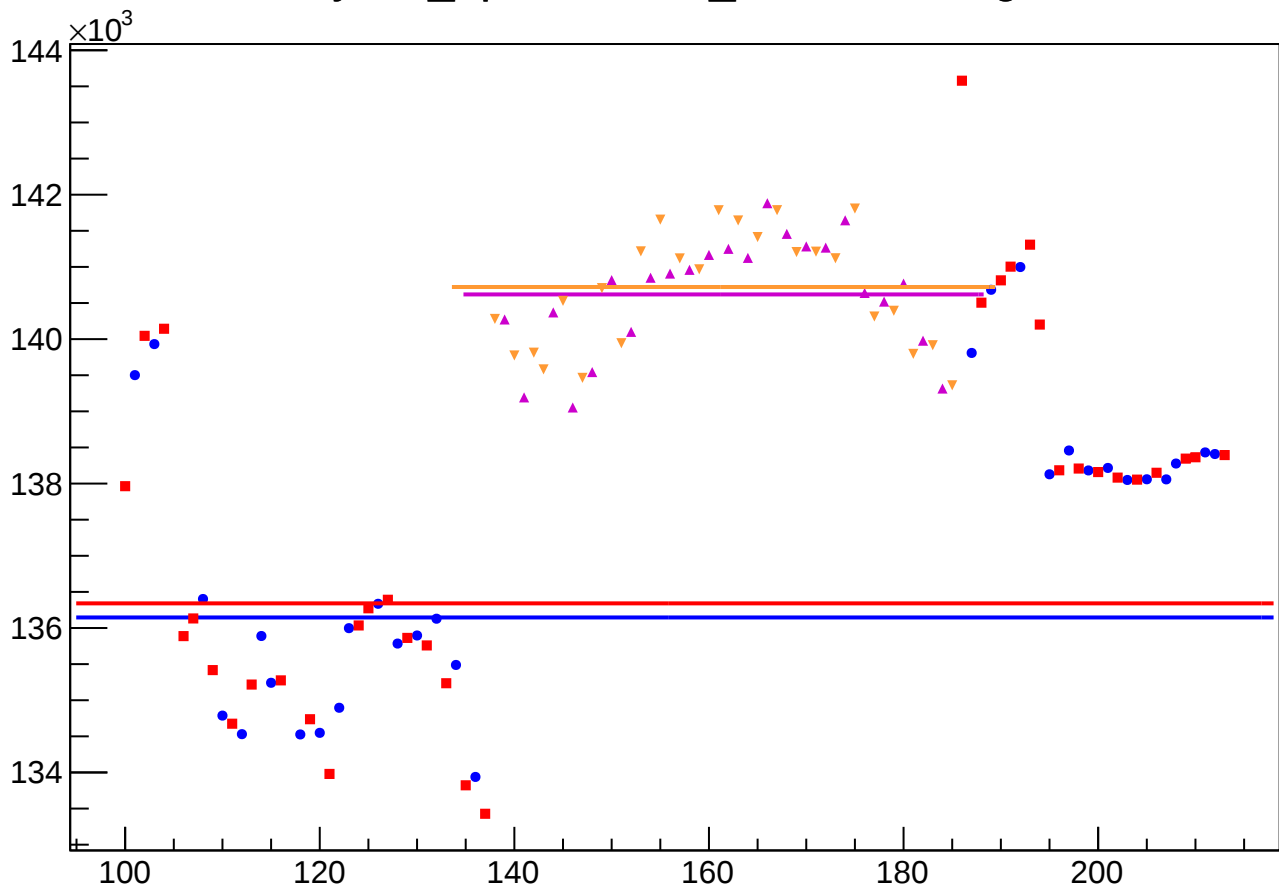
Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

+ sign 278.426 ± 0.036 $\chi^2/\text{NDF}: 5926266.6/54$

All: 278.901 ± 0.025 $\chi^2/\text{NDF}: 11138616.4/111$

- sign 279.372 ± 0.035 $\chi^2/\text{NDF}: 5211994.2/56$

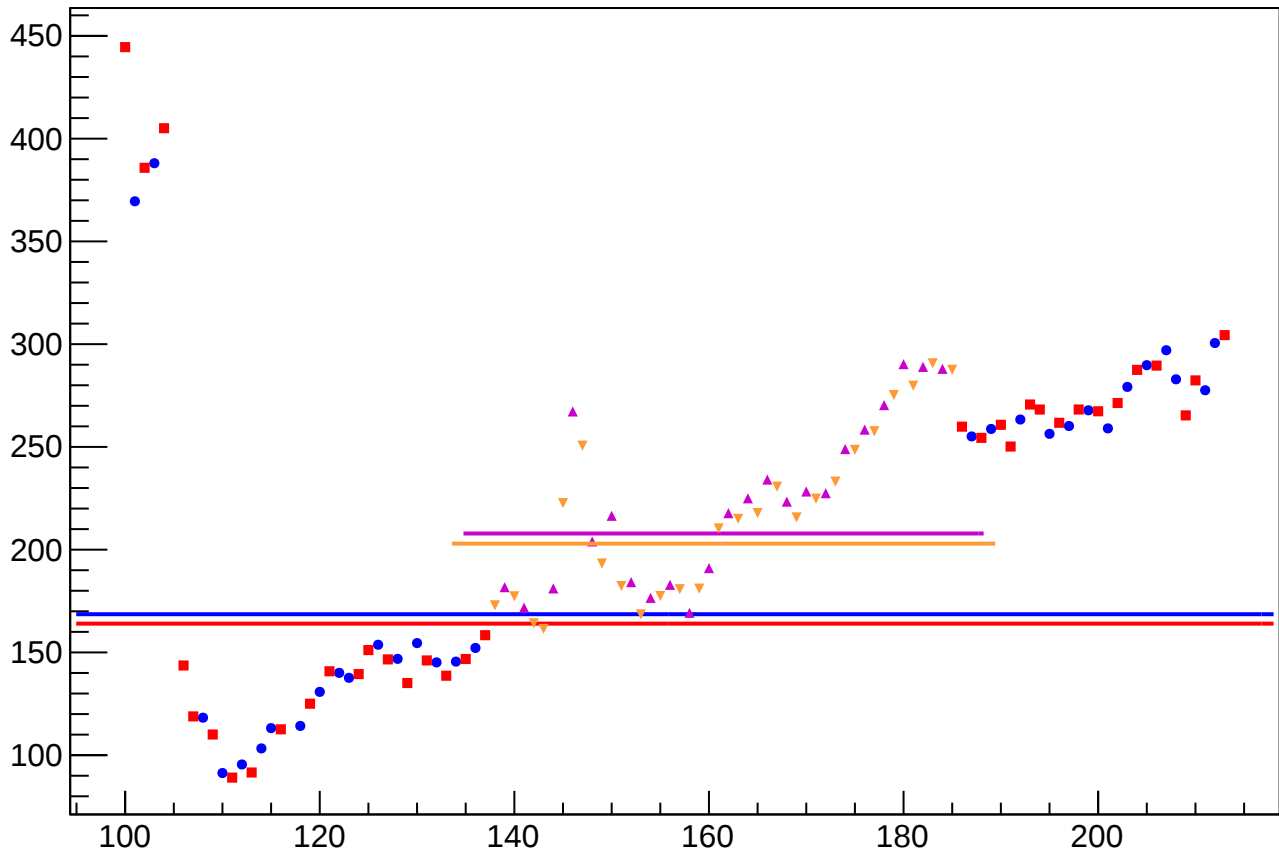
yield_bpm0i02WS_mean vs Slug



Right In: 136146.196 ± 0.047 $\chi^2/\text{NDF}: 1585842052.4/29$
 Left Out: 140721.823 ± 0.048 $\chi^2/\text{NDF}: 247257762.8/24$
 Right Out: 136341.334 ± 0.044 $\chi^2/\text{NDF}: 2210961878.6/33$
 Left In: 140619.038 ± 0.051 $\chi^2/\text{NDF}: 200370178.0/22$

+ sign 138345.409 ± 0.034 $\chi^2/\text{NDF}: 6473597795.6$
 All: 138250.841 ± 0.024 $\chi^2/\text{NDF}: 129350147$
 - sign 138157.790 ± 0.033 $\chi^2/\text{NDF}: 6445662851.6$

yield_bpm0i02WS_rms vs Slug



Right In: 168.599 $\pm$ 0.033 χ^2 /NDF: 5085844.6/29

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 164.011 $\pm$ 0.031 χ^2 /NDF: 5756018.6/33

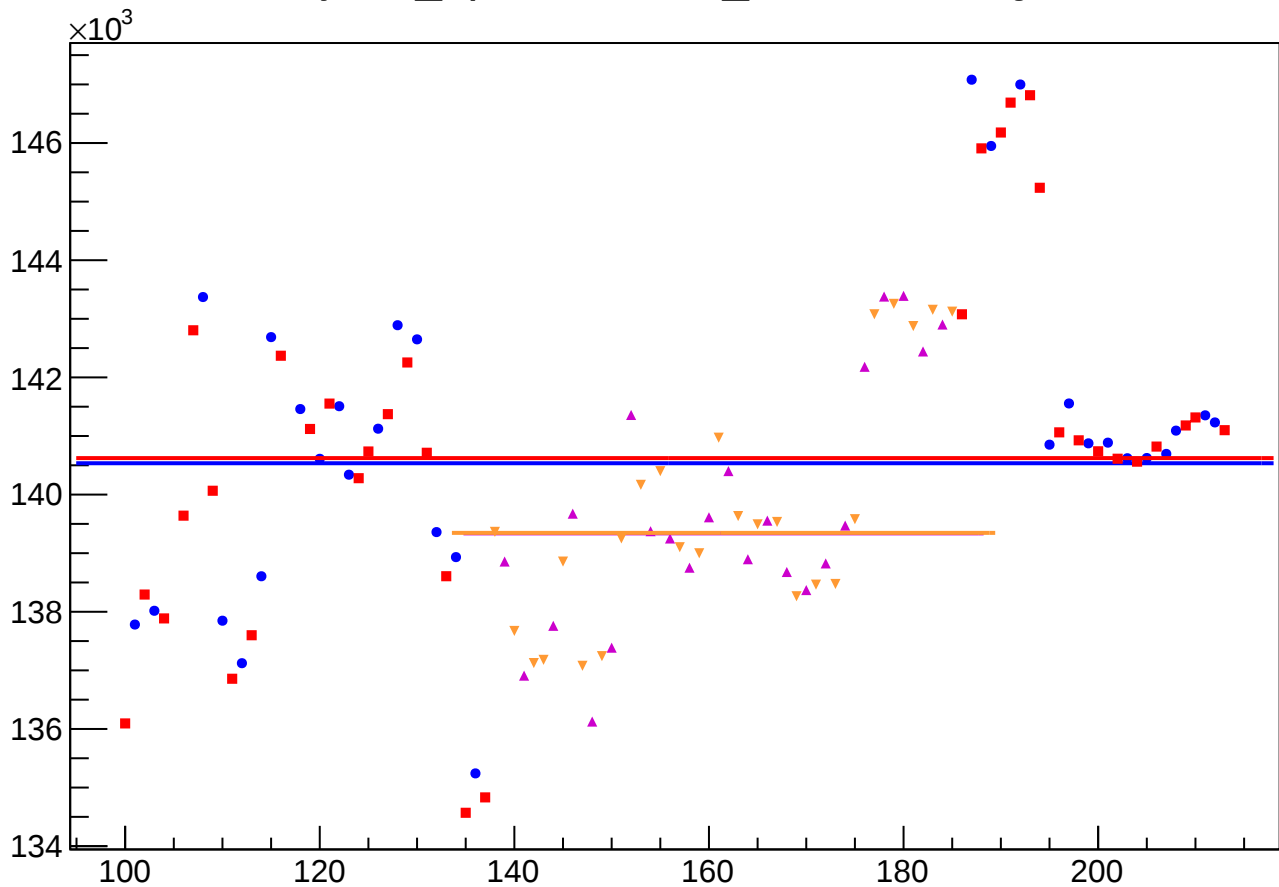
Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

+ sign 185.102 $\pm$ 0.024 χ^2 /NDF: 6660724.6/54

All: 183.859 $\pm$ 0.017 χ^2 /NDF: 14219641.4/11

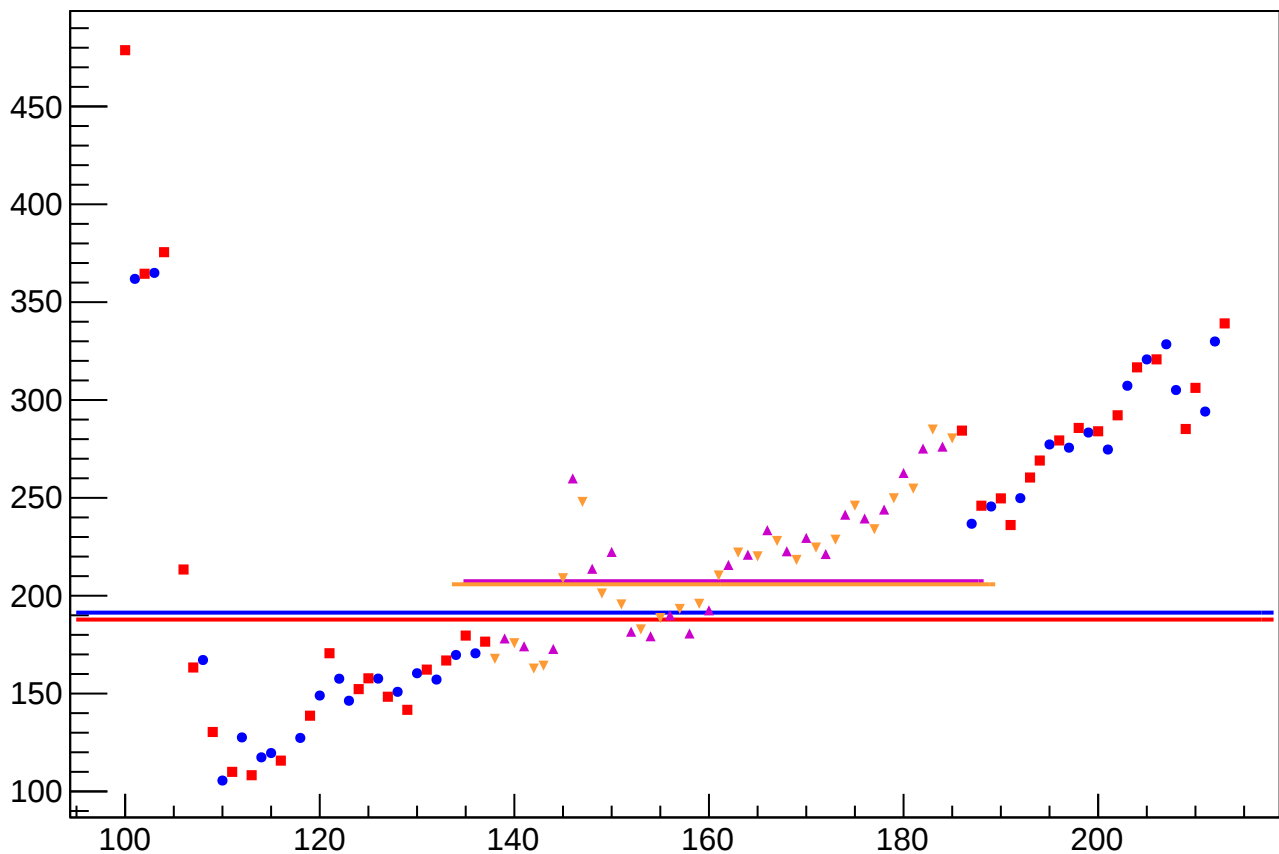
- sign 182.636 $\pm$ 0.024 χ^2 /NDF: 7553474.8/56

yield_bpm0i02aWS_mean vs Slug



Right In: 140535.016+/-0.052 χ^2/NDF : 2783108925.9/29
 Left Out: 139346.604+/-0.049 χ^2/NDF : 1271172976.7/24
 Right Out: 140622.672+/-0.049 χ^2/NDF : 3219879473.1/33
 Left In: 139337.874+/-0.051 χ^2/NDF : 1293003954.9/22
 All: 139953.939+/-0.025 χ^2/NDF : 917773512
 + sign 139906.413+/-0.036 χ^2/NDF : 4331762810.7
 - sign 140000.820+/-0.035 χ^2/NDF : 4842434392.4

yield_bpm0i02aWS_rms vs Slug



Right In: 191.360 $\pm$ 0.037 χ^2 /NDF: 4063448.6/29

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 187.813 $\pm$ 0.035 χ^2 /NDF: 4581822.6/33

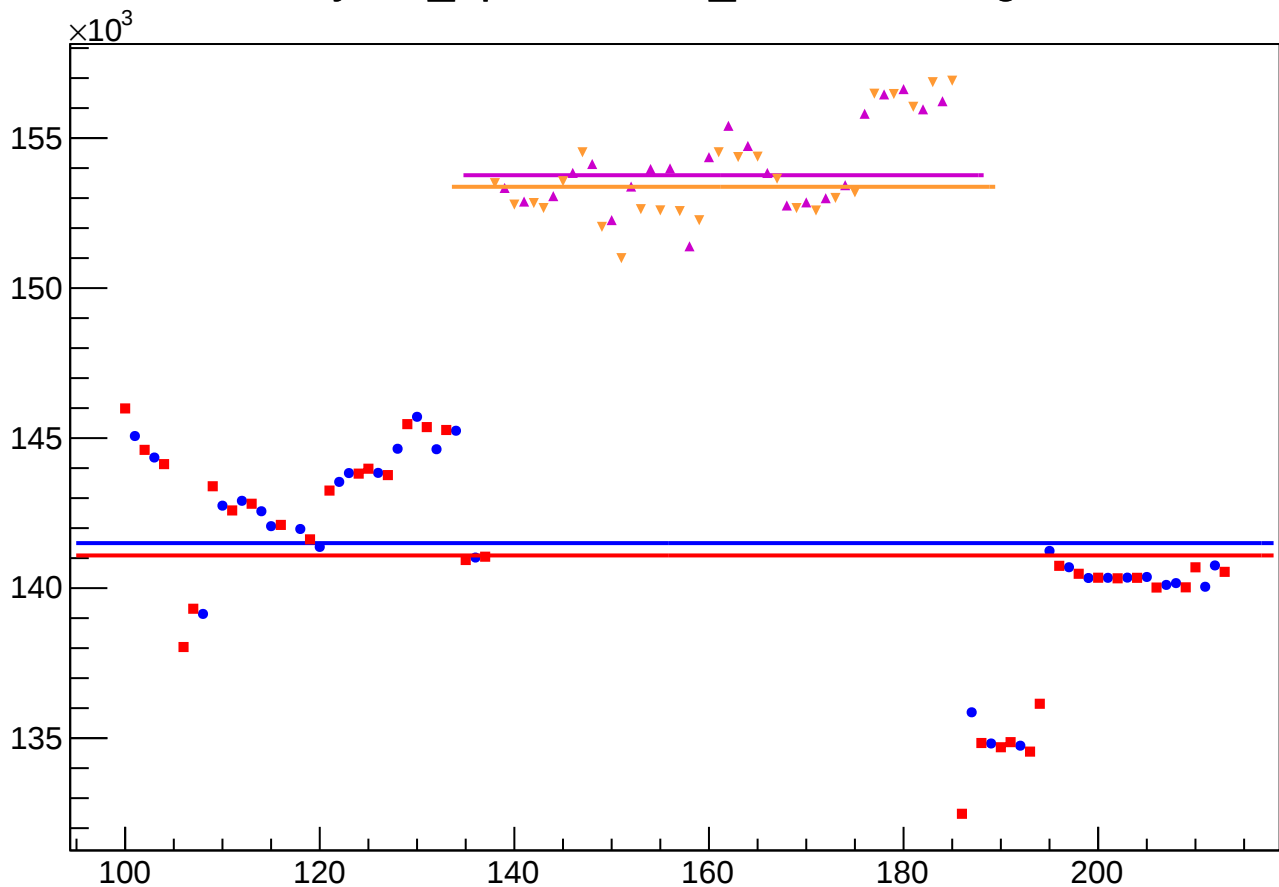
Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

+ sign 199.015 $\pm$ 0.025 χ^2 /NDF: 4884420.1/54

All: 198.152 $\pm$ 0.018 χ^2 /NDF: 10323969.7/1

- sign 197.301 $\pm$ 0.025 χ^2 /NDF: 5437216.6/56

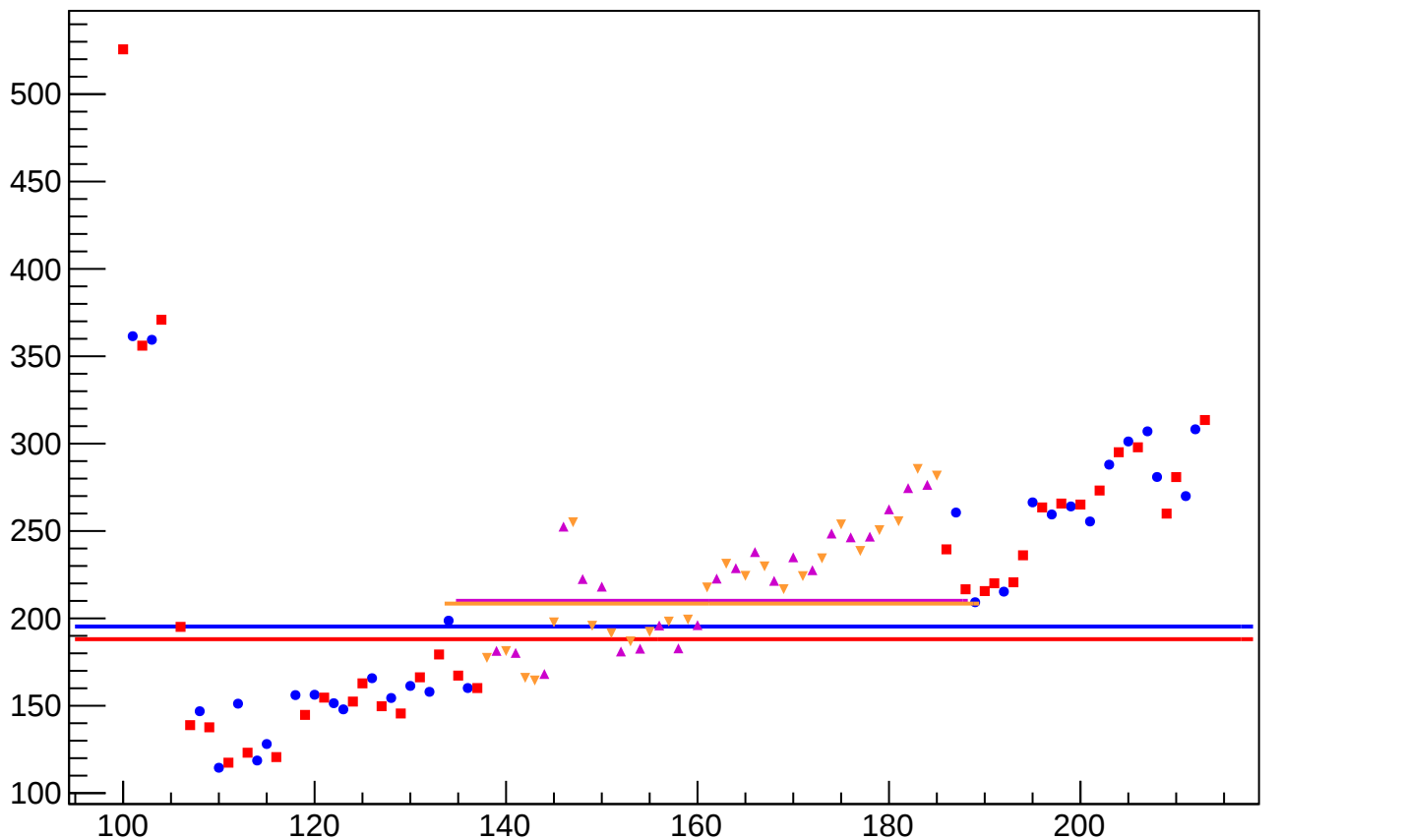
yield_bpm0i05WS_mean vs Slug



Right In: 141500.469 ± 0.052 $\chi^2/\text{NDF}: 2735630008.1/29$
 Left Out: 153376.698 ± 0.050 $\chi^2/\text{NDF}: 803848095.1/24$
 Right Out: 141089.196 ± 0.048 $\chi^2/\text{NDF}: 4446543845.8/33$
 Left In: 153762.419 ± 0.051 $\chi^2/\text{NDF}: 635075685.0/22$

+ sign 147724.750 ± 0.036 $\chi^2/\text{NDF}: 30894598734.1/24$
 All: 147372.982 ± 0.025 $\chi^2/\text{NDF}: 683853767.1/24$
 - sign 147033.415 ± 0.035 $\chi^2/\text{NDF}: 37301676537.2/24$

yield_bpm0i05WS_rms vs Slug



Right In: 195.349+/-0.037 χ^2/NDF : 2990639.5/29

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 188.099+/-0.034 χ^2/NDF : 3376559.8/33

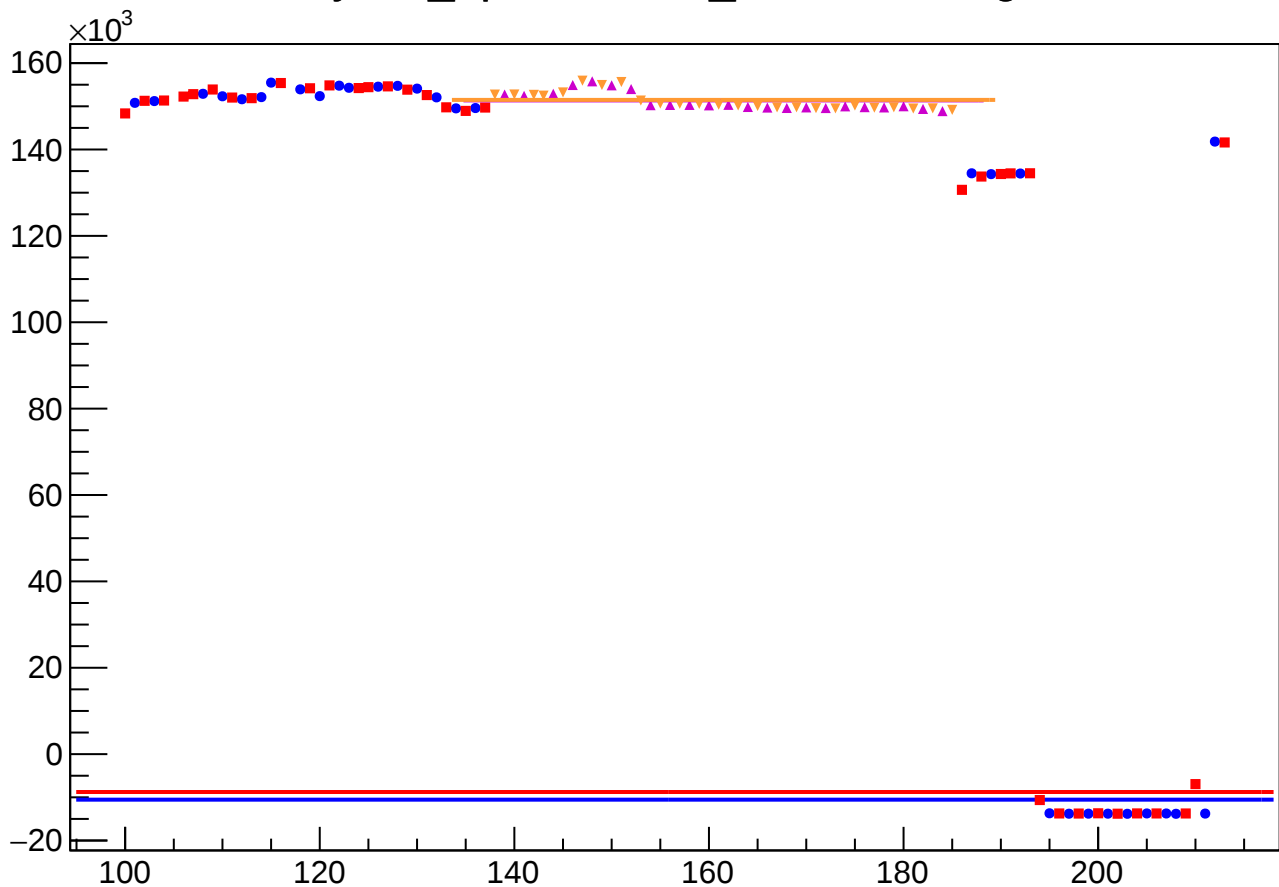
Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

+ sign 202.223+/-0.025 χ^2/NDF : 3778276.3/54

All: 200.272+/-0.018 χ^2/NDF : 8061944.8/111

- sign 198.389+/-0.025 χ^2/NDF : 4272036.3/56

yield_bpm0i07WS_mean vs Slug



Right In: -10540.591 ± 0.009

χ^2/NDF : 6086350670782.8/29

Left Out: 151483.385 ± 0.050

χ^2/NDF : 1481910066.9/24

Right Out: -8768.053 ± 0.010

χ^2/NDF : 7342348480079.0/33

Left In: 151363.165 ± 0.051

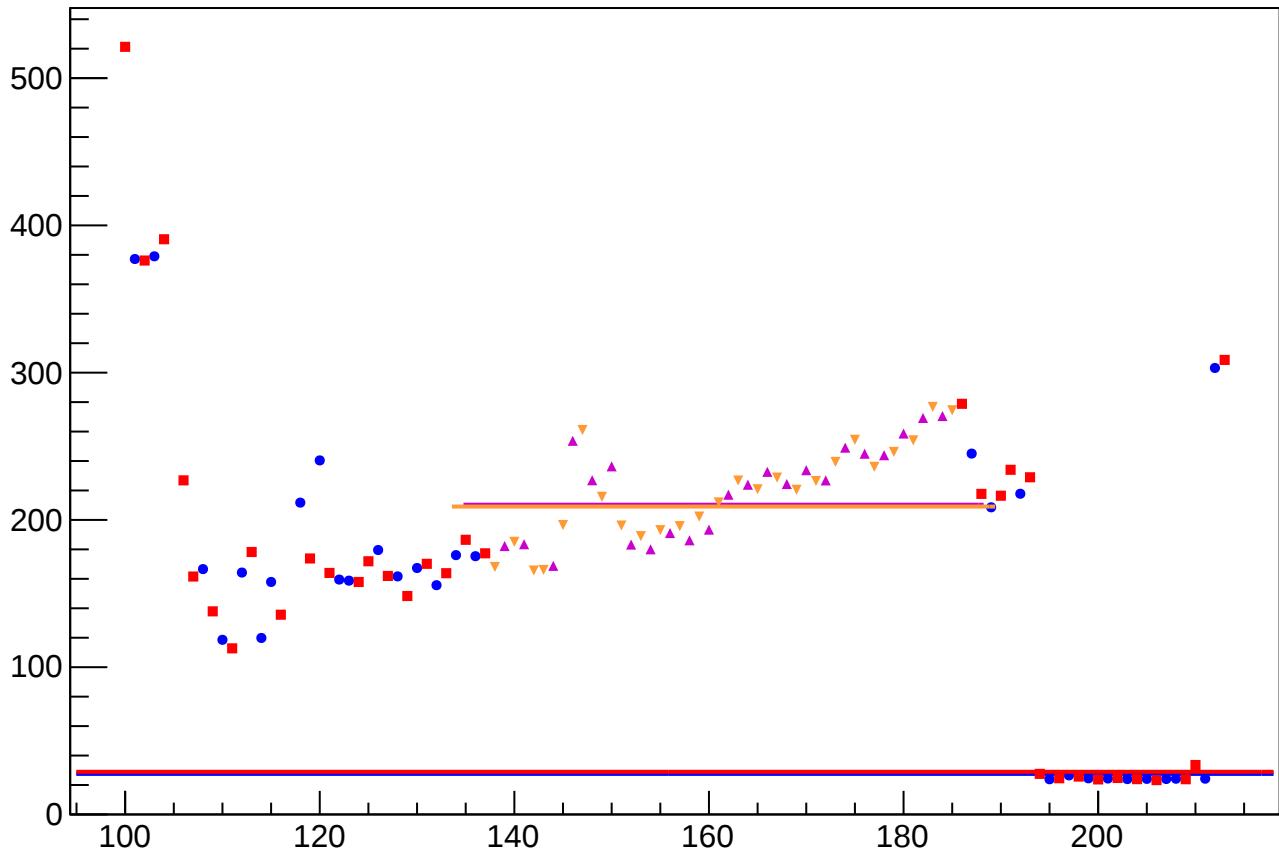
χ^2/NDF : 1421662089.0/22

+ sign -5110.833 ± 0.009 χ^2/NDF : 1643332224673

All: -4084.068 ± 0.007 χ^2/NDF : 3315279513

- sign -2867.888 ± 0.010 χ^2/NDF : 16691451833525

yield_bpm0i07WS_rms vs Slug



Right In: 27.542 $\pm$ 0.007 χ^2 /NDF: 12817022.7/29

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 28.978 $\pm$ 0.007 χ^2 /NDF: 14752203.8/33

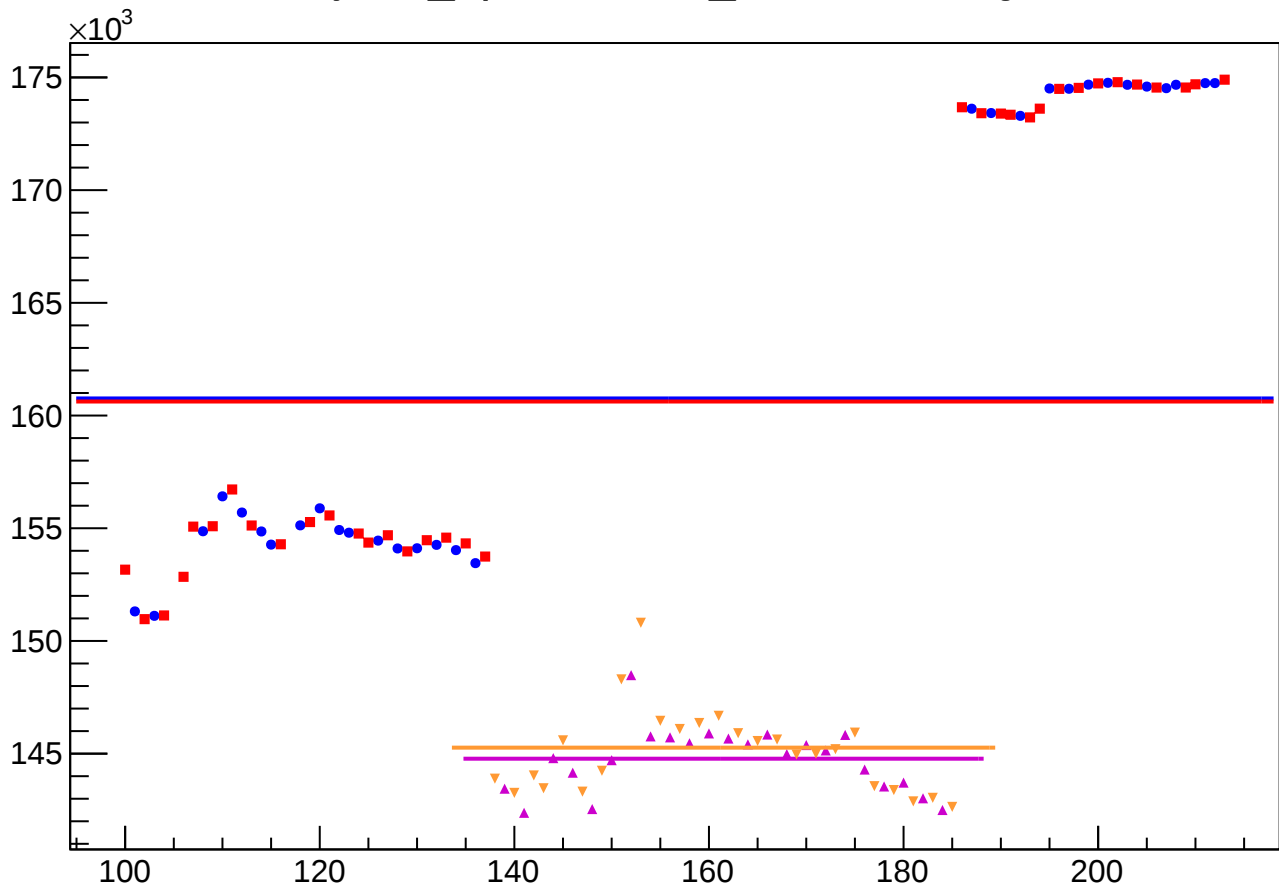
Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

+ sign 33.625 $\pm$ 0.006 χ^2 /NDF: 39499351.8/54

All: 34.557 $\pm$ 0.005 χ^2 /NDF: 78958069.0/111

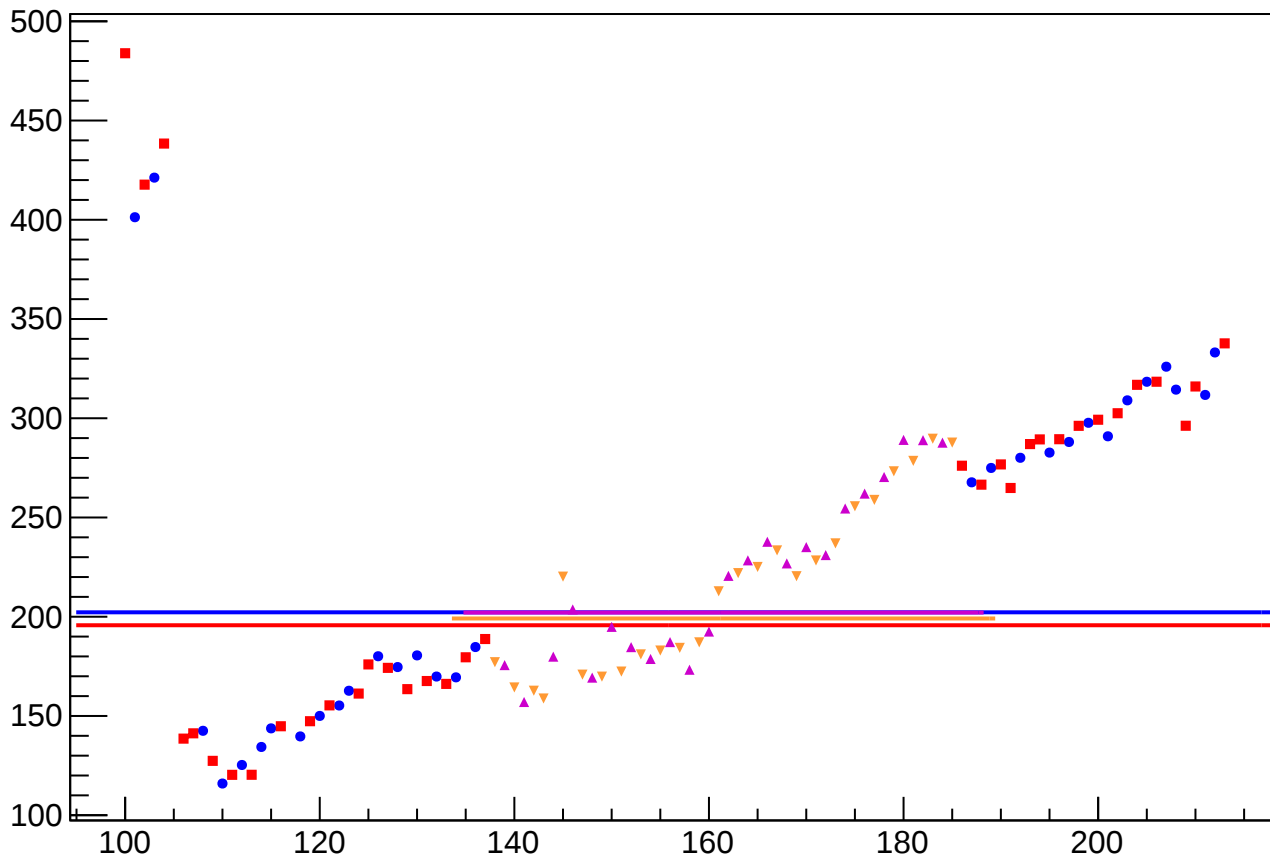
- sign 35.661 $\pm$ 0.007 χ^2 /NDF: 39412555.4/56

yield_bpm1i02WS_mean vs Slug



Right In: 160758.306 $\pm$ 0.055 χ^2 /NDF: 27609495395.3/29
 Left Out: 145266.717 $\pm$ 0.047 χ^2 /NDF: 1717707352.7/24
 Right Out: 160622.430 $\pm$ 0.051 χ^2 /NDF: 30611410883.4/33
 Left In: 144776.016 $\pm$ 0.050 χ^2 /NDF: 918120275.4/22
 + sign 151924.110 $\pm$ 0.036 χ^2 /NDF: 75242673840.
 All: 152202.684 $\pm$ 0.025 χ^2 /NDF: 156578399
 - sign 152477.256 $\pm$ 0.036 χ^2 /NDF: 81215424953.6

yield_bpm1i02WS_rms vs Slug



Right In: 202.224 $\pm$ 0.039 χ^2 /NDF: 4000271.3/29

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 195.707 $\pm$ 0.036 χ^2 /NDF: 4541813.9/33

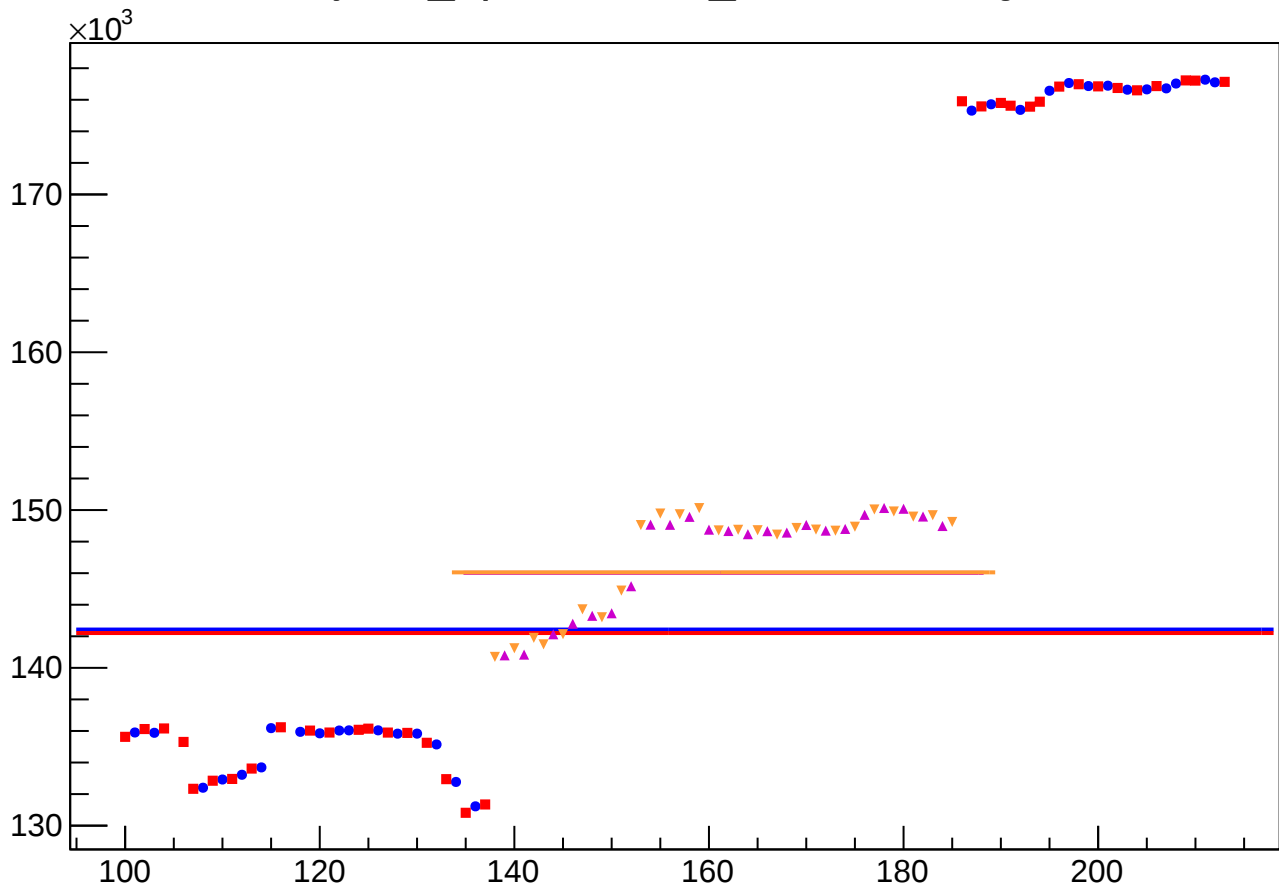
Left In: 202.090 $\pm$ 0.035 χ^2 /NDF:1057833.2/22

+ sign 200.453 $\pm$ 0.025 χ^2 /NDF: 5156193.8/54

All: 199.715 $\pm$ 0.018 χ^2 /NDF: 10773649.5/1

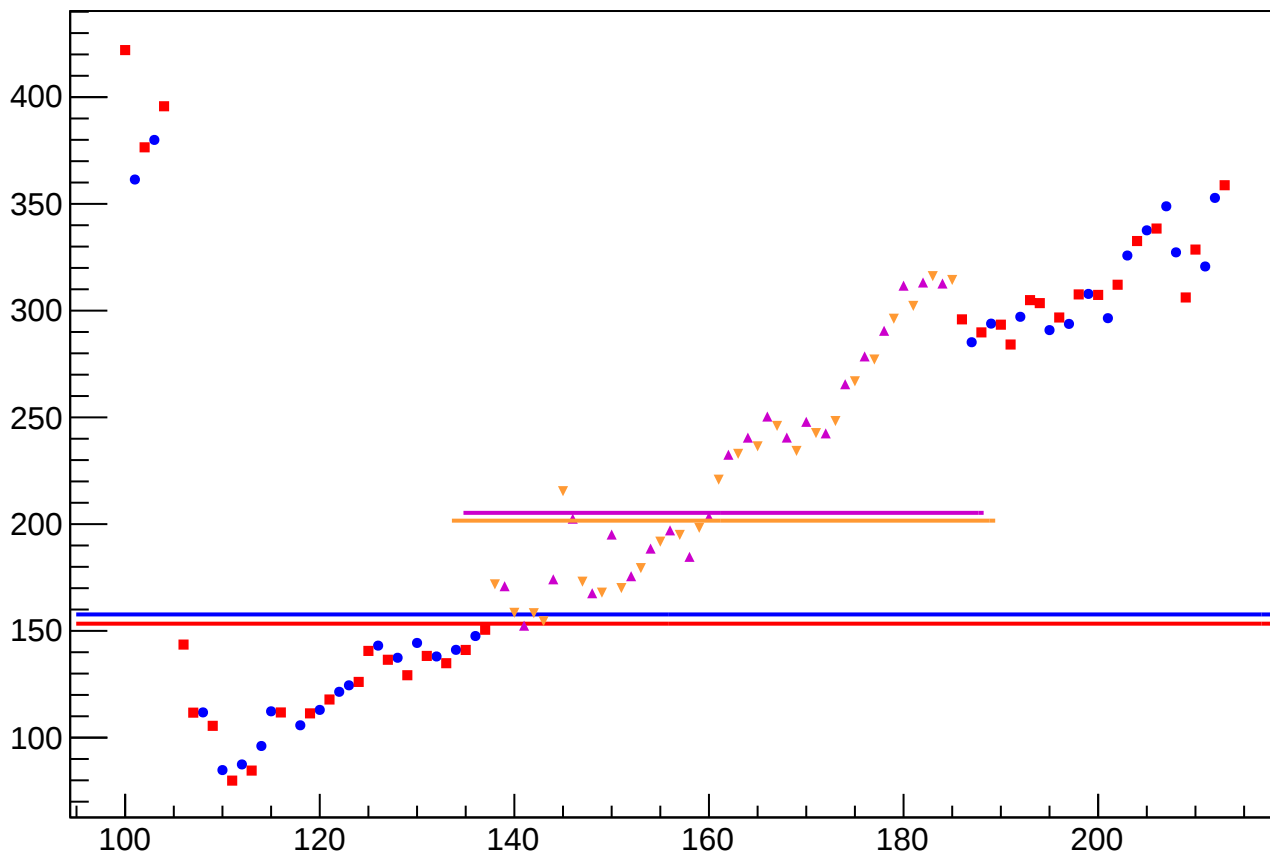
- sign 198.988 $\pm$ 0.025 χ^2 /NDF: 5615769.0/56

yield_bpm1i04WS_mean vs Slug



Right In: 142427.294 $\pm$ 0.045 χ^2 /NDF: 136604513469.7/29
 Left Out: 146051.733 $\pm$ 0.048 χ^2 /NDF: 5403300123.1/24
 Right Out: 142206.401 $\pm$ 0.043 χ^2 /NDF: 152694275322.5/33
 Left In: 146020.015 $\pm$ 0.051 χ^2 /NDF: 4591425371.4/22
 All: 143953.998 $\pm$ 0.023 χ^2 /NDF: 305657175
 + sign 144123.183 $\pm$ 0.033 χ^2 /NDF: 145003536897
 - sign 143789.001 $\pm$ 0.033 χ^2 /NDF: 160601851647

yield_bpm1i04WS_rms vs Slug



Right In: 157.701 $\pm$ 0.032 χ^2 /NDF: 7142976.2/29

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF: 1589564.0/24

Right Out: 153.373 $\pm$ 0.030 χ^2 /NDF: 7992519.2/33

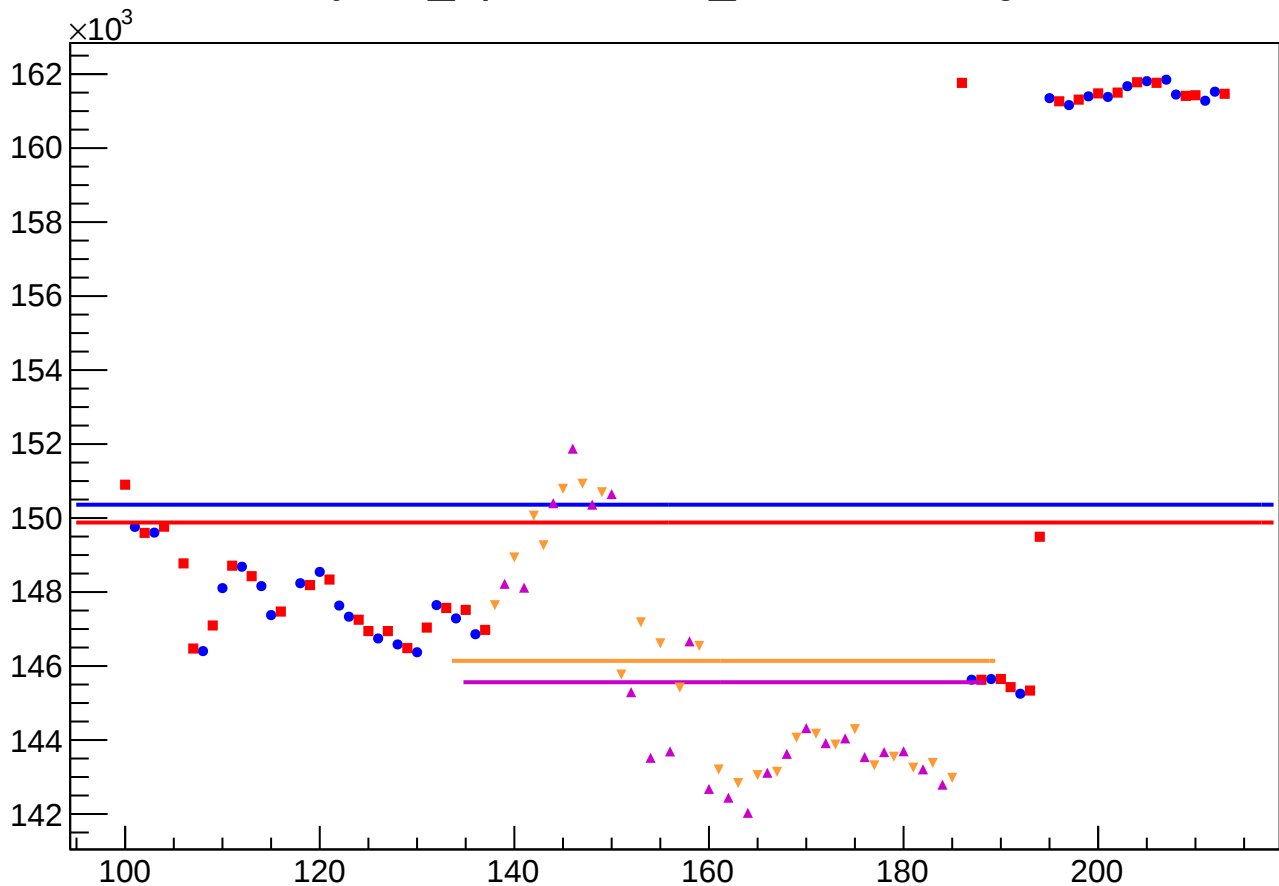
Left In: 205.286 $\pm$ 0.036 χ^2 /NDF: 1425292.7/22

+ sign 178.256 $\pm$ 0.023 χ^2 /NDF: 9612743.7/54

All: 176.565 $\pm$ 0.016 χ^2 /NDF: 20269873.6/1

- sign 174.917 $\pm$ 0.023 χ^2 /NDF: 10646785.0/56

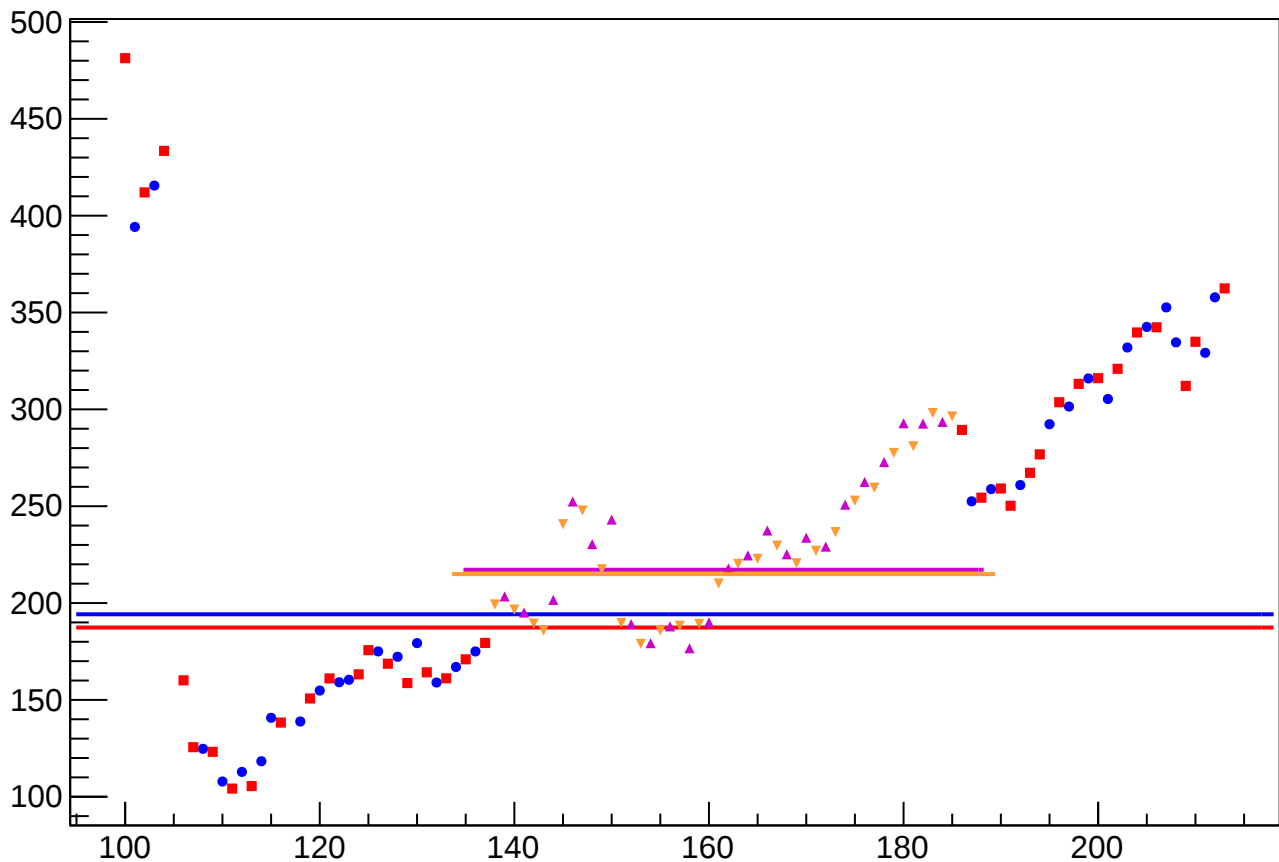
yield_bpm1i06WS_mean vs Slug



Right In: 150360.772 ± 0.053 $\chi^2/\text{NDF}: 11715390863.4/29$
 Left Out: 146139.326 ± 0.051 $\chi^2/\text{NDF}: 2699546907.6/24$
 Right Out: 149879.342 ± 0.050 $\chi^2/\text{NDF}: 11327491454.3/33$
 Left In: 145562.386 ± 0.053 $\chi^2/\text{NDF}: 3054641996.0/22$

+ sign 148150.789 ± 0.037 $\chi^2/\text{NDF}: 17691693790.5$
 All: 148004.644 ± 0.026 $\chi^2/\text{NDF}: 356313580.5$
 - sign 147862.937 ± 0.036 $\chi^2/\text{NDF}: 17908654739.5$

yield_bpm1i06WS_rms vs Slug



Right In: 194.206 $\pm$ 0.038 χ^2 /NDF: 4899981.4/29

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 187.368 $\pm$ 0.035 χ^2 /NDF: 5481134.2/33

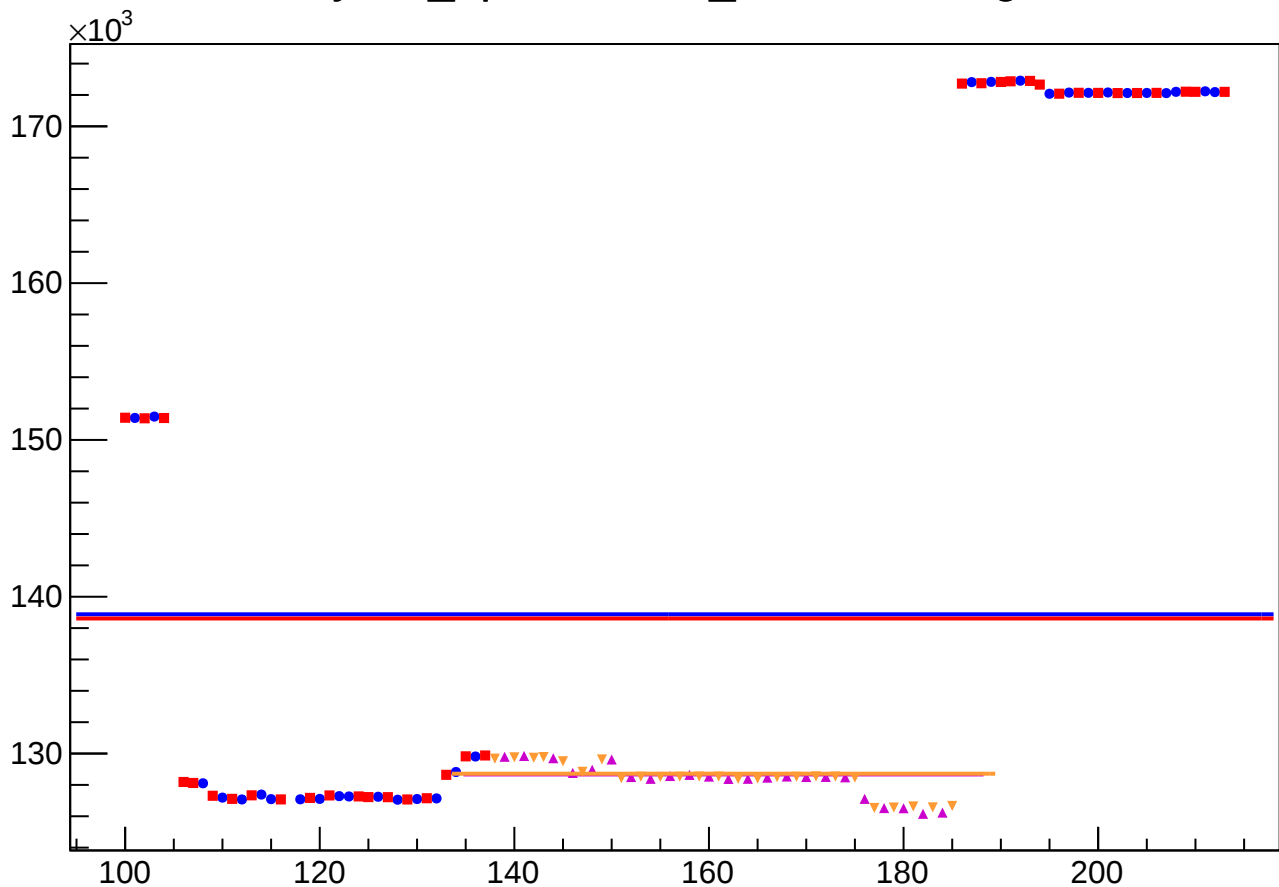
Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

+ sign 205.063 $\pm$ 0.026 χ^2 /NDF: 5786667.5/54

All: 203.154 $\pm$ 0.018 χ^2 /NDF: 12380070.5/1

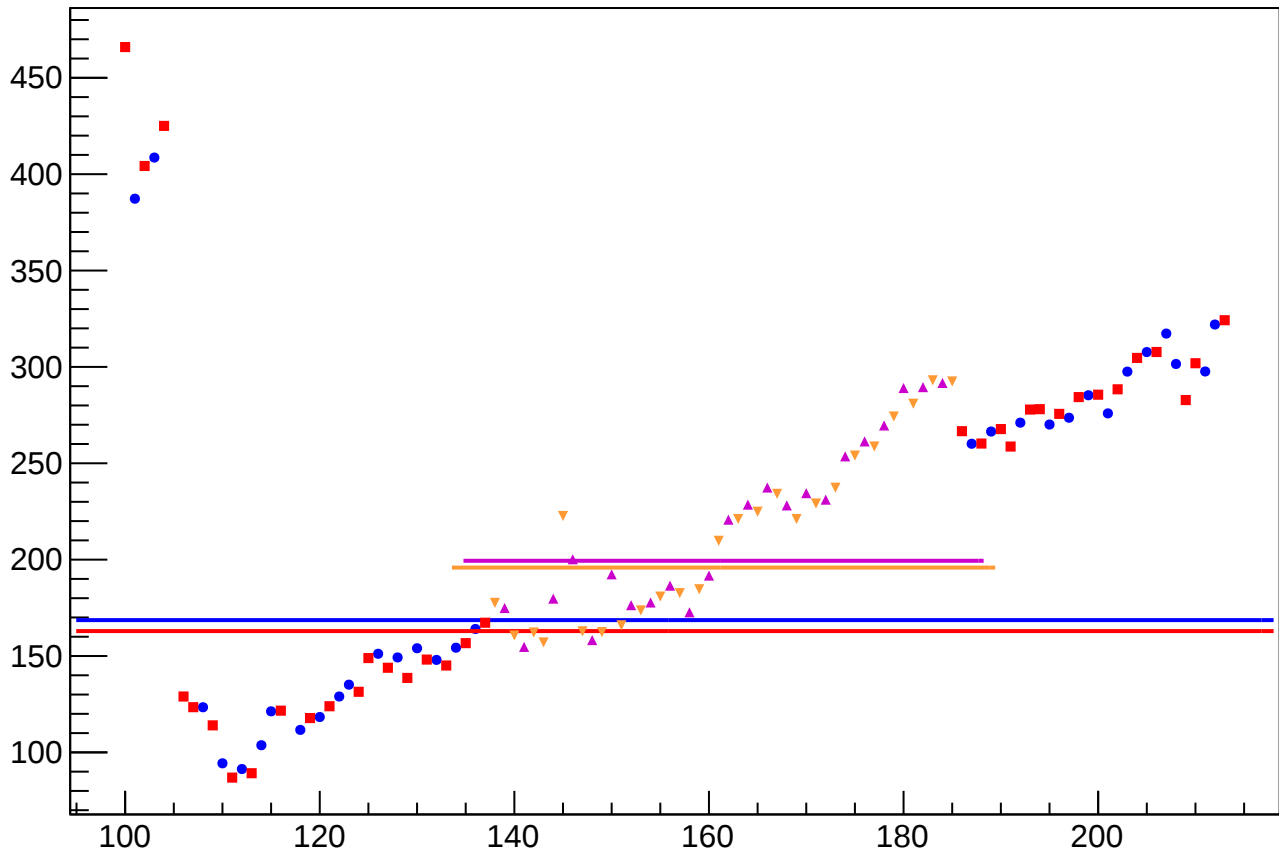
- sign 201.304 $\pm$ 0.026 χ^2 /NDF: 6582824.1/56

yield_bpm2i01WS_mean vs Slug



Right In: 138879.839 $\pm$ 0.047 χ^2 /NDF: 168081967100.3/29
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 138612.911 $\pm$ 0.044 χ^2 /NDF: 190785621153.4/33
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 + sign 133754.505 $\pm$ 0.033 χ^2 /NDF: 191923986666
 All: 133970.769 $\pm$ 0.023 χ^2 /NDF: 405975292
 - sign 134181.136 $\pm$ 0.033 χ^2 /NDF: 213967390872

yield_bpm2i01WS_rms vs Slug



Right In: 168.620 $\pm$ 0.033 χ^2 /NDF: 5741573.1/29

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 162.929 $\pm$ 0.031 χ^2 /NDF: 6445843.5/33

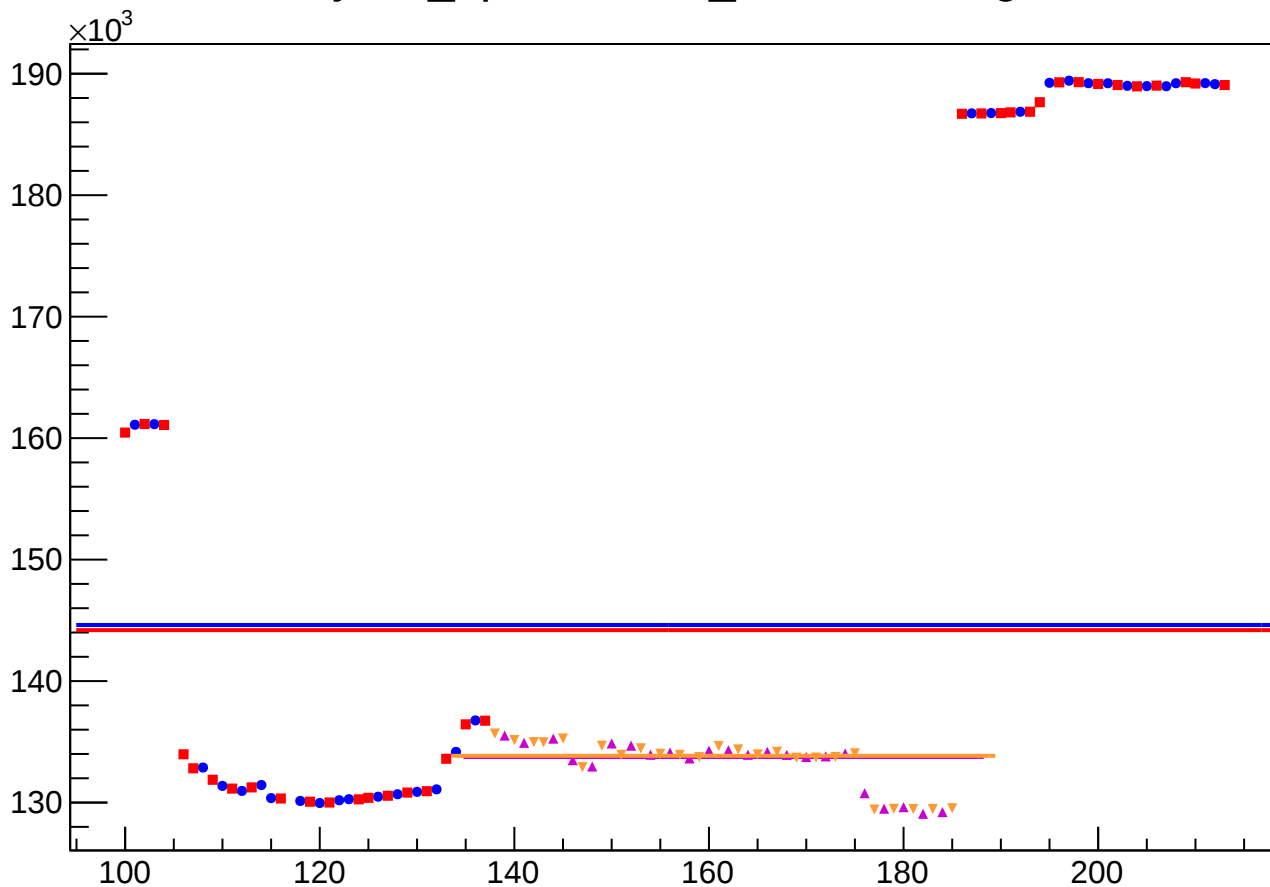
Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

+ sign 182.366 $\pm$ 0.023 χ^2 /NDF: 7392914.3/54

All: 180.754 $\pm$ 0.016 χ^2 /NDF: 15628683.2/1

- sign 179.186 $\pm$ 0.023 χ^2 /NDF: 8226448.6/56

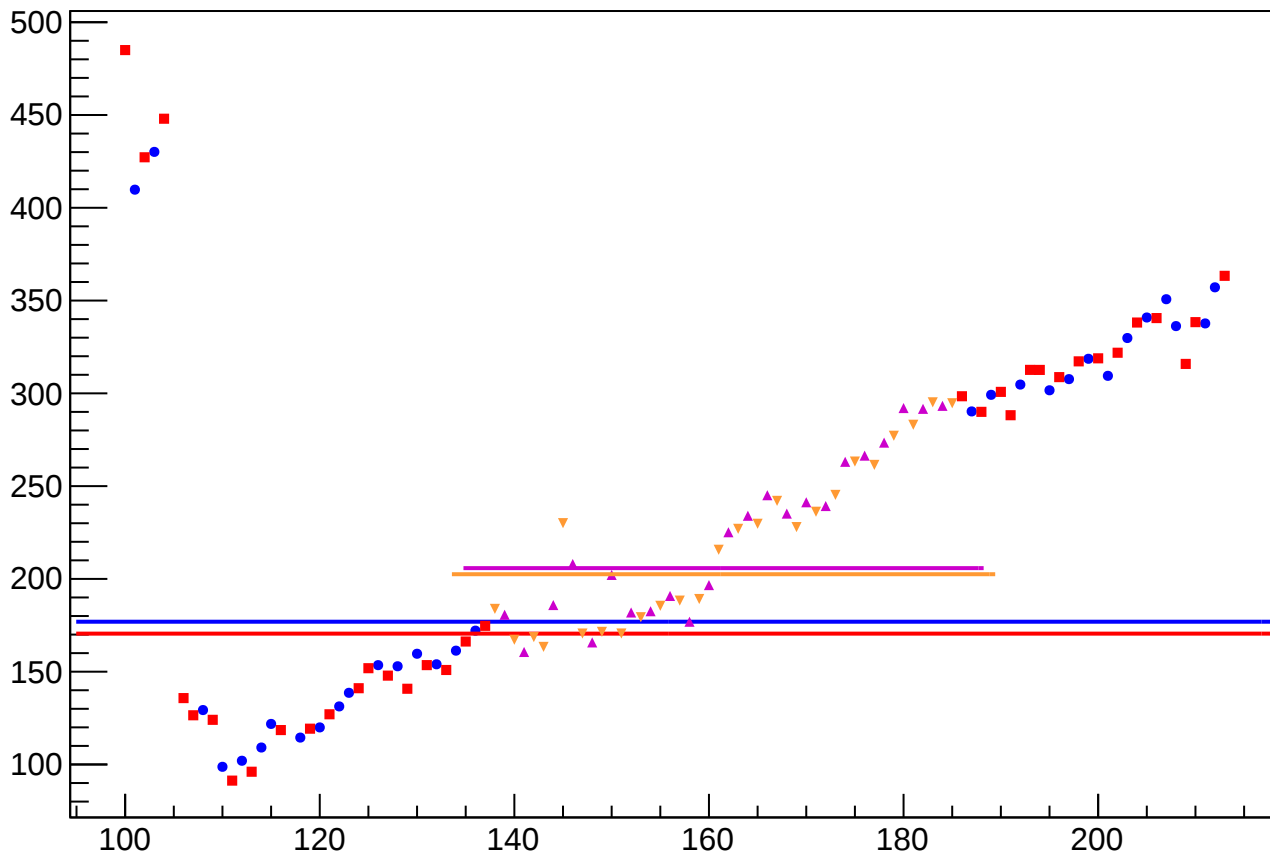
yield_bpm2i02WS_mean vs Slug



Right In: 144620.284 $\pm$ 0.050 χ^2 /NDF: 228237017515.0/29
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 144194.974 $\pm$ 0.047 χ^2 /NDF: 253957296400.0/33
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22

+ sign 139045.081 $\pm$ 0.035 χ^2 /NDF: 253376090440
 All: 139225.701 $\pm$ 0.024 χ^2 /NDF: 531476479
 - sign 139401.414 $\pm$ 0.034 χ^2 /NDF: 278046920490

yield_bpm2i02WS_rms vs Slug



Right In: 176.931 $\pm$ 0.035 χ^2 /NDF: 6295665.4/29

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 170.510 $\pm$ 0.033 χ^2 /NDF: 7100442.0/33

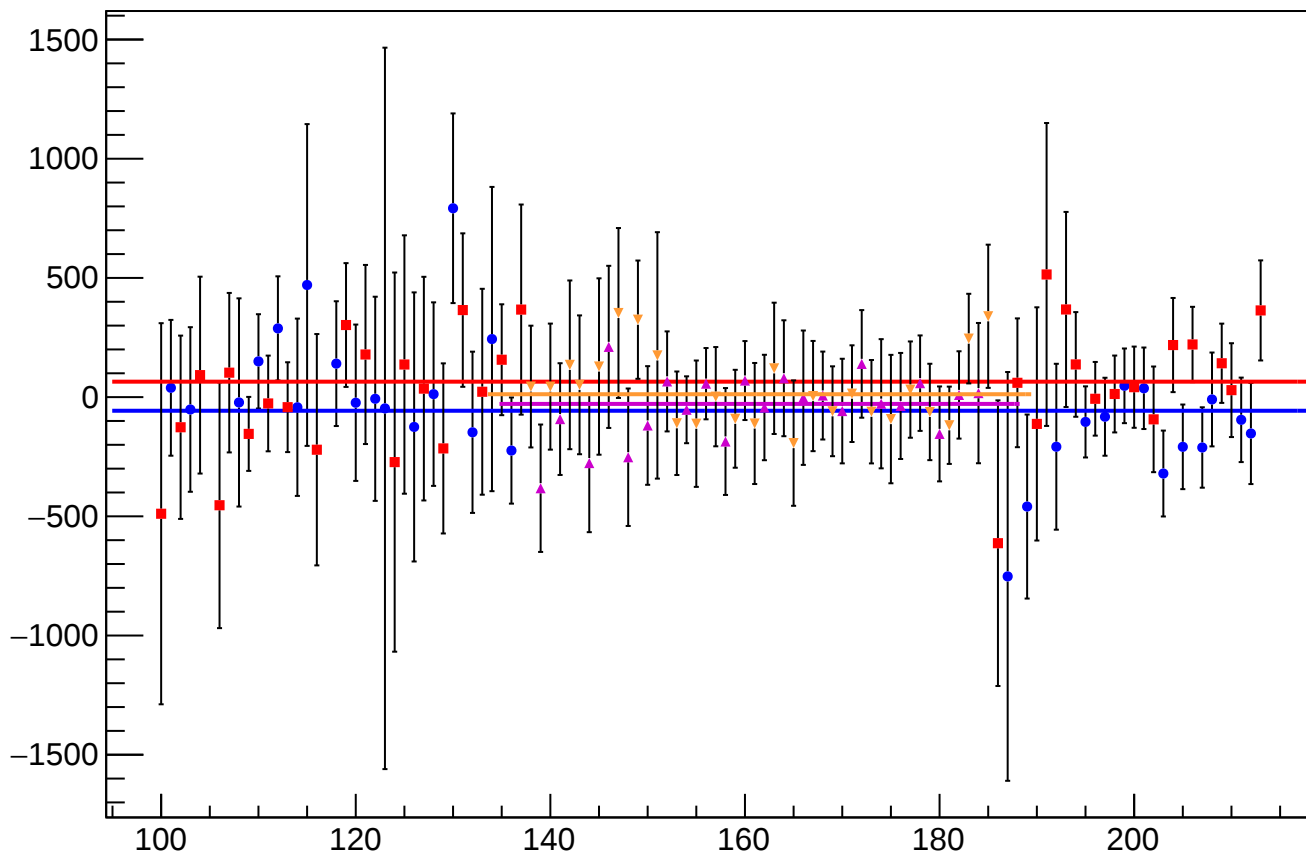
Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

+ sign 190.181 $\pm$ 0.025 χ^2 /NDF: 7779465.8/54

All: 188.421 $\pm$ 0.017 χ^2 /NDF: 16512780.5/1

- sign 186.709 $\pm$ 0.024 χ^2 /NDF: 8723160.1/56

asym_bcm_an_ds_mean vs Slug



Right In: -57.148 ± 44.254 χ^2/NDF : 17.2/29

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: 64.854 ± 43.068 χ^2/NDF : 15.1/33

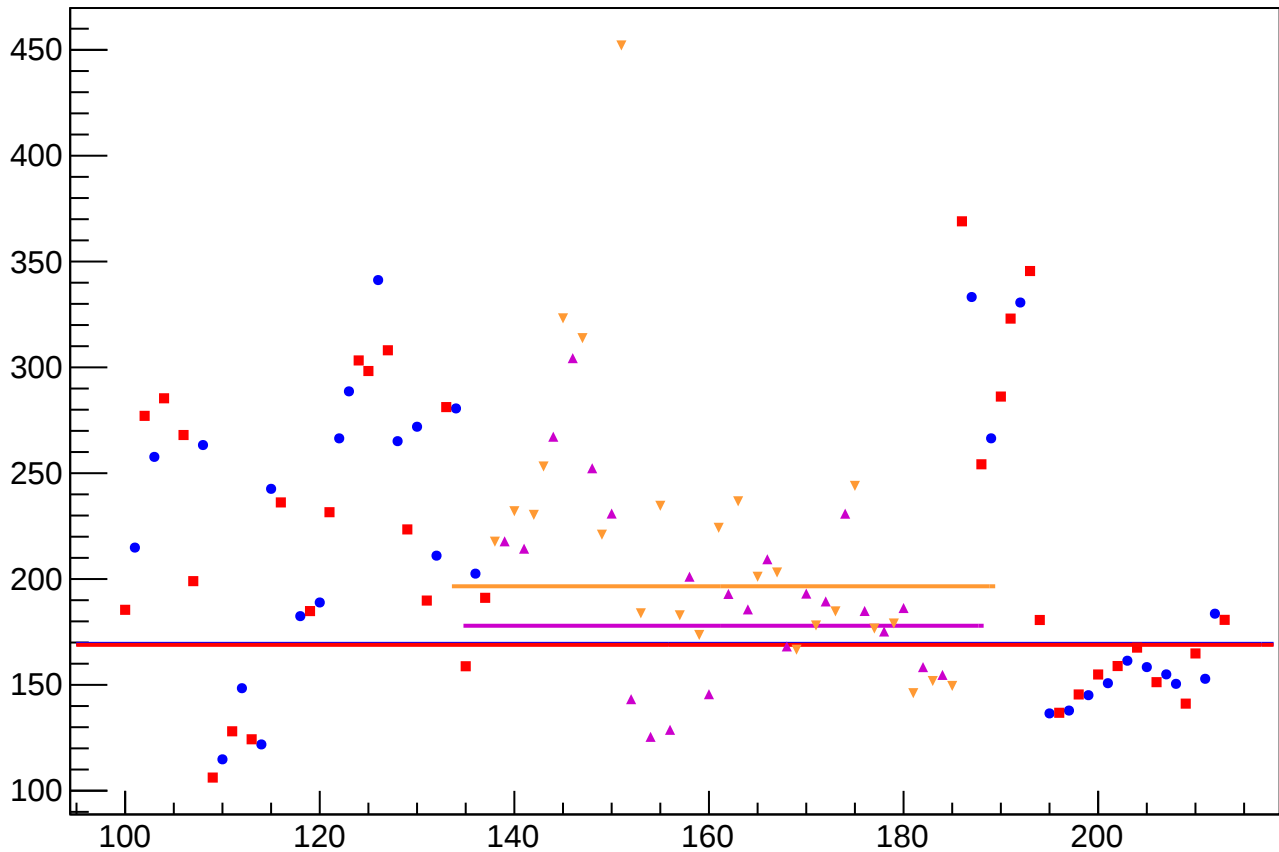
Left In: -28.452 ± 44.688 χ^2/NDF : 6.7/22

+ sign -24.956 ± 32.389 χ^2/NDF : 26.9/54

All: -1.542 ± 22.399 χ^2/NDF : 52.0/111

- sign 19.923 ± 31.011 χ^2/NDF : 24.1/56

asym_bcm_an_ds_rms vs Slug



Right In: 169.382 ± 0.031 χ^2/NDF : 2149722.7/29

Left Out: 196.576 ± 0.034 χ^2/NDF : 1778719.0/24

Right Out: 168.917 ± 0.030 χ^2/NDF : 2845861.9/33

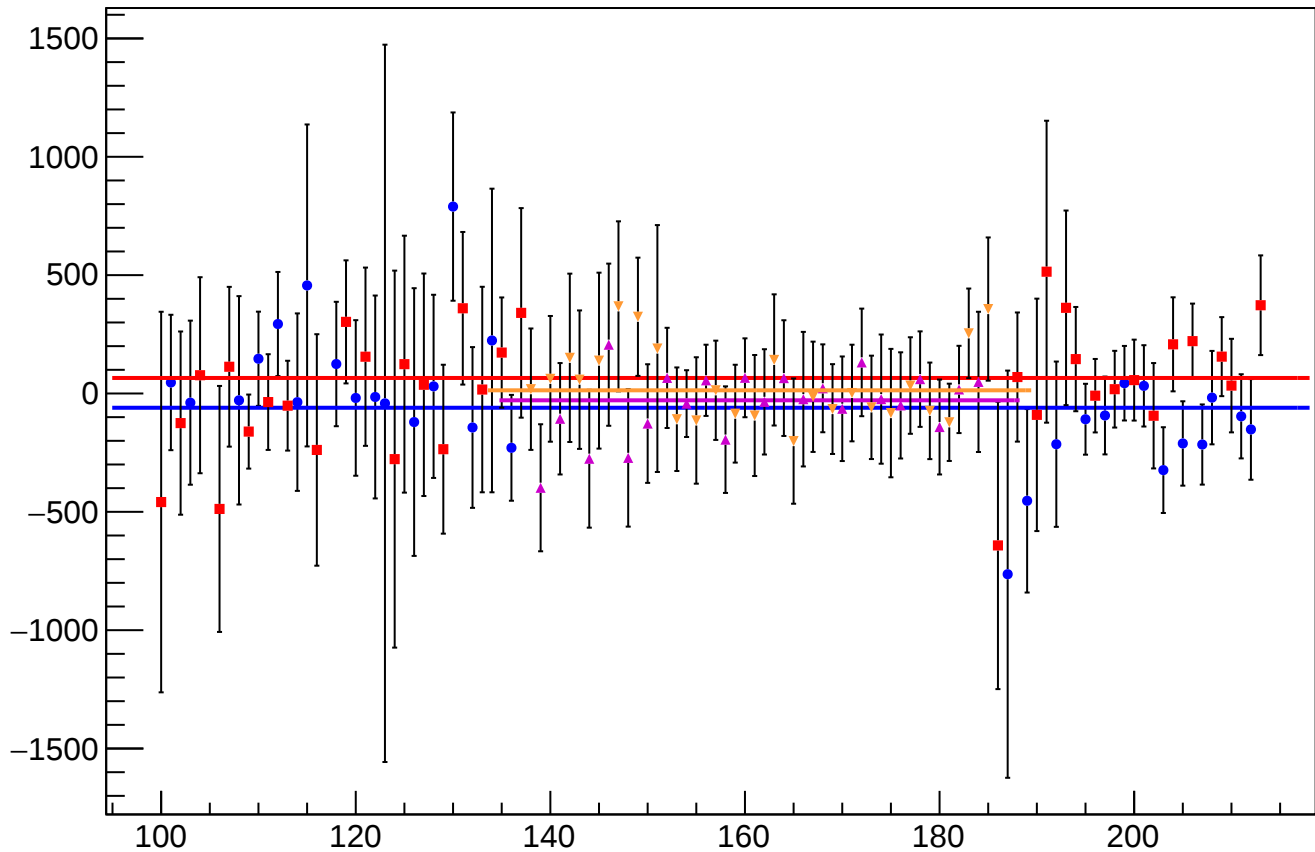
Left In: 177.933 ± 0.032 χ^2/NDF : 1605780.8/22

+ sign 182.010 ± 0.023 χ^2/NDF : 4279117.2/54

All: 177.444 ± 0.016 χ^2/NDF : 8849137.7/111

- sign 173.259 ± 0.022 χ^2/NDF : 4493847.9/56

asym_bcm_an_ds3_mean vs Slug



Right In: -60.269 ± 44.455 χ^2/NDF : 17.1/29

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: 65.579 ± 43.278 χ^2/NDF : 15.5/33

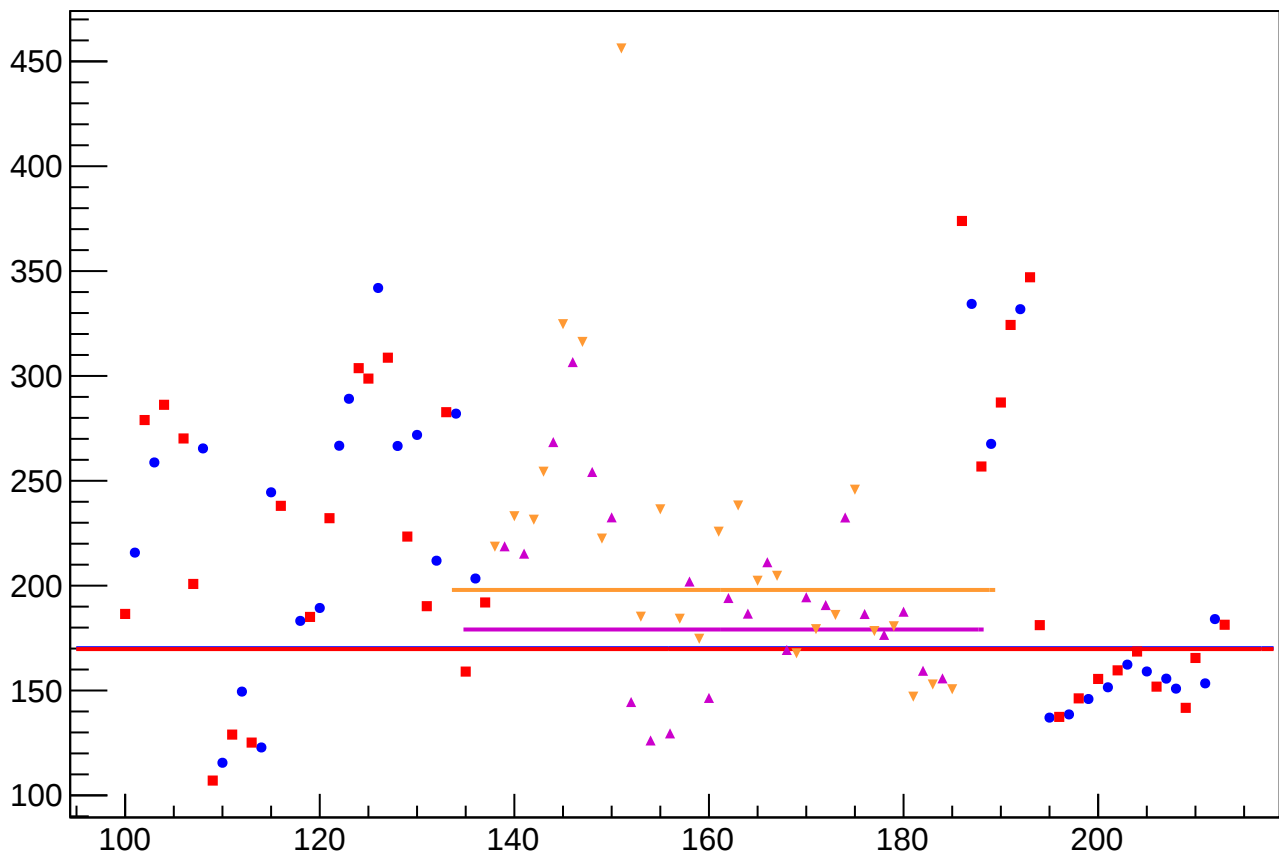
Left In: -28.806 ± 44.980 χ^2/NDF : 6.8/22

+ sign -26.152 ± 32.573 χ^2/NDF : 27.3/54

All: -1.965 ± 22.526 χ^2/NDF : 53.1/111

- sign 20.206 ± 31.186 χ^2/NDF : 24.7/56

asym_bcm_an_ds3_rms vs Slug



Right In: 170.175 $\pm$ 0.031 χ^2 /NDF: 2141417.1/29

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 169.747 $\pm$ 0.031 χ^2 /NDF: 2841695.1/33

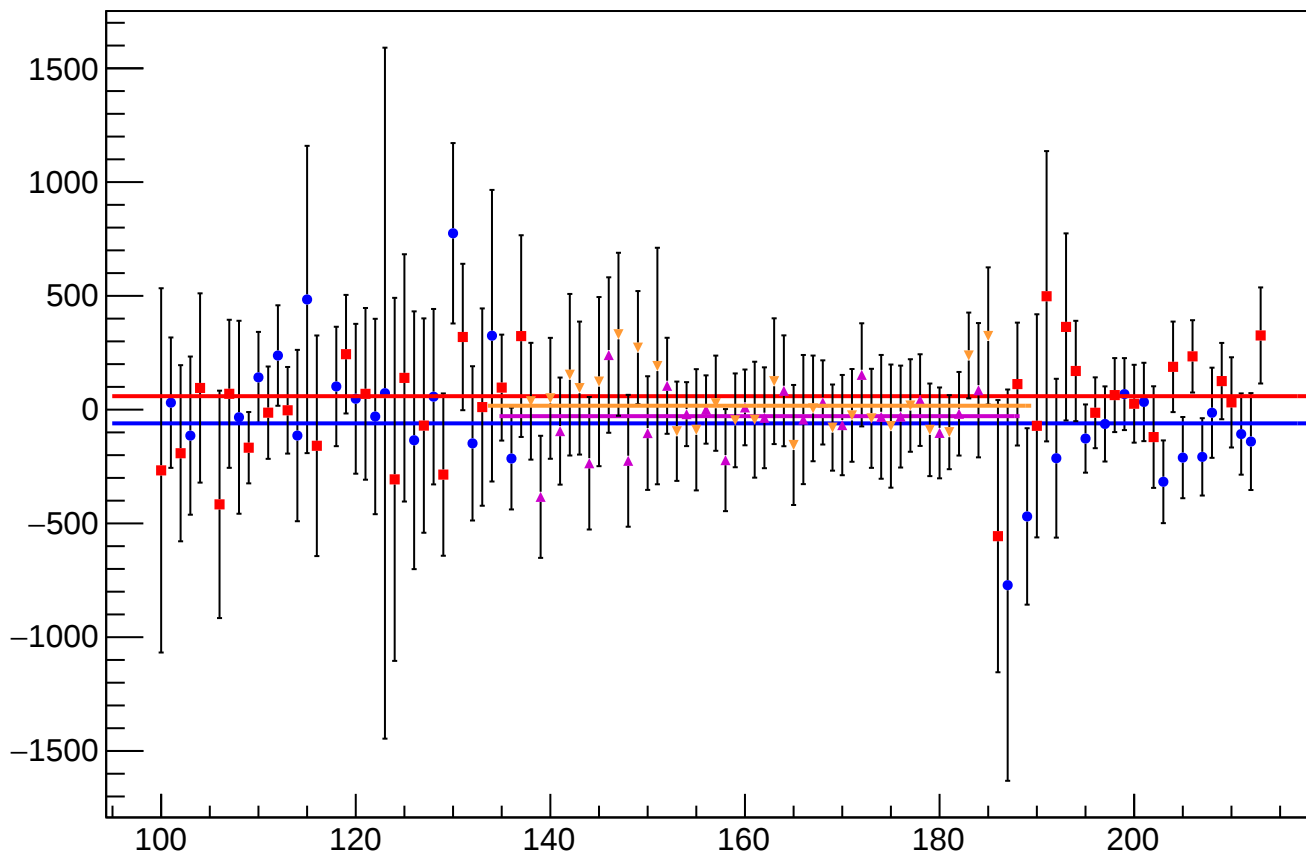
Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

+ sign 183.040 $\pm$ 0.023 χ^2 /NDF: 4277602.0/54

All: 178.448 $\pm$ 0.016 χ^2 /NDF: 8845408.5/111

- sign 174.238 $\pm$ 0.022 χ^2 /NDF: 4491614.3/56

asym_bcm_an_us_mean vs Slug



Right In: -60.291 ± 44.540 χ^2/NDF : 16.5/29

Left Out: 17.142 ± 47.738 χ^2/NDF : 7.1/24

Right Out: 59.157 ± 43.308 χ^2/NDF : 13.6/33

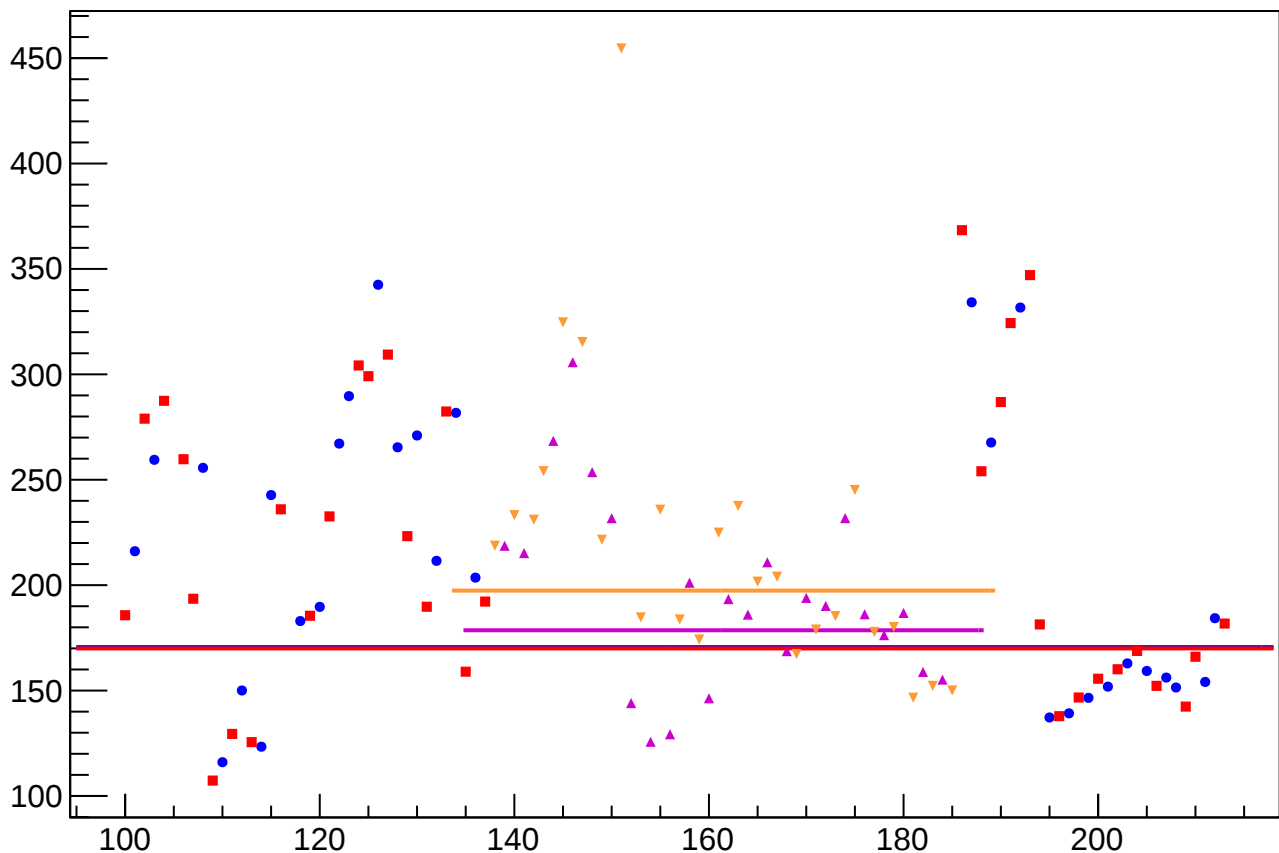
Left In: -28.655 ± 44.859 χ^2/NDF : 6.1/22

+ sign -24.255 ± 32.566 χ^2/NDF : 25.0/54

All: -2.823 ± 22.513 χ^2/NDF : 47.5/111

- sign 16.795 ± 31.157 χ^2/NDF : 21.7/56

asym_bcm_an_us_rms vs Slug



Right In: 170.593 $\pm$ 0.031 χ^2 /NDF: 2108712.1/29

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF: 1780261.9/24

Right Out: 169.994 $\pm$ 0.031 χ^2 /NDF: 2794142.1/33

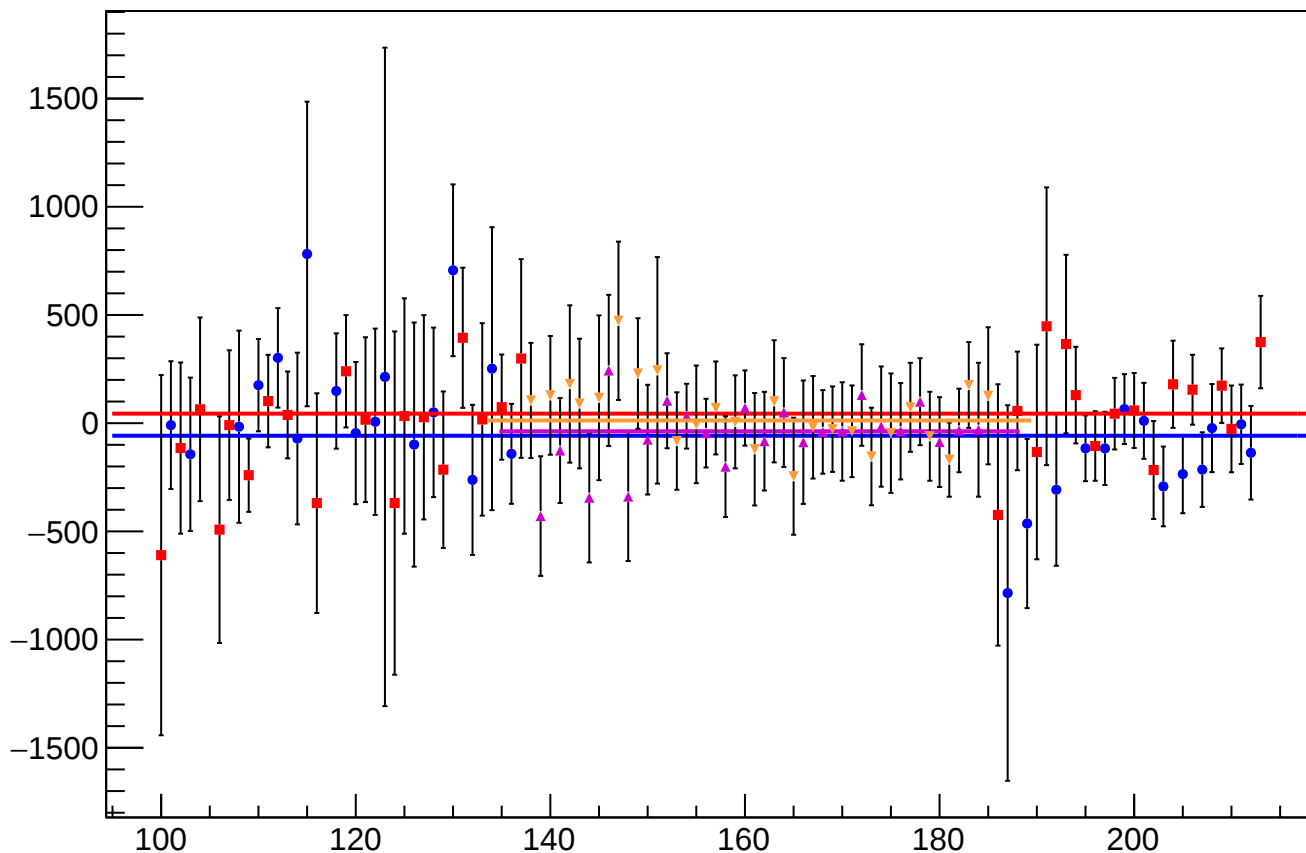
Left In: 178.601 $\pm$ 0.032 χ^2 /NDF: 1608998.1/22

+ sign 183.079 $\pm$ 0.023 χ^2 /NDF: 4226683.3/54

All: 178.415 $\pm$ 0.016 χ^2 /NDF: 8746492.8/111

- sign 174.146 $\pm$ 0.022 χ^2 /NDF: 4441250.8/56

asym_bcm_dg_us_mean vs Slug



Right In: -58.059 ± 45.540 χ^2/NDF : 17.3/29

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: 44.115 ± 44.451 χ^2/NDF : 16.4/33

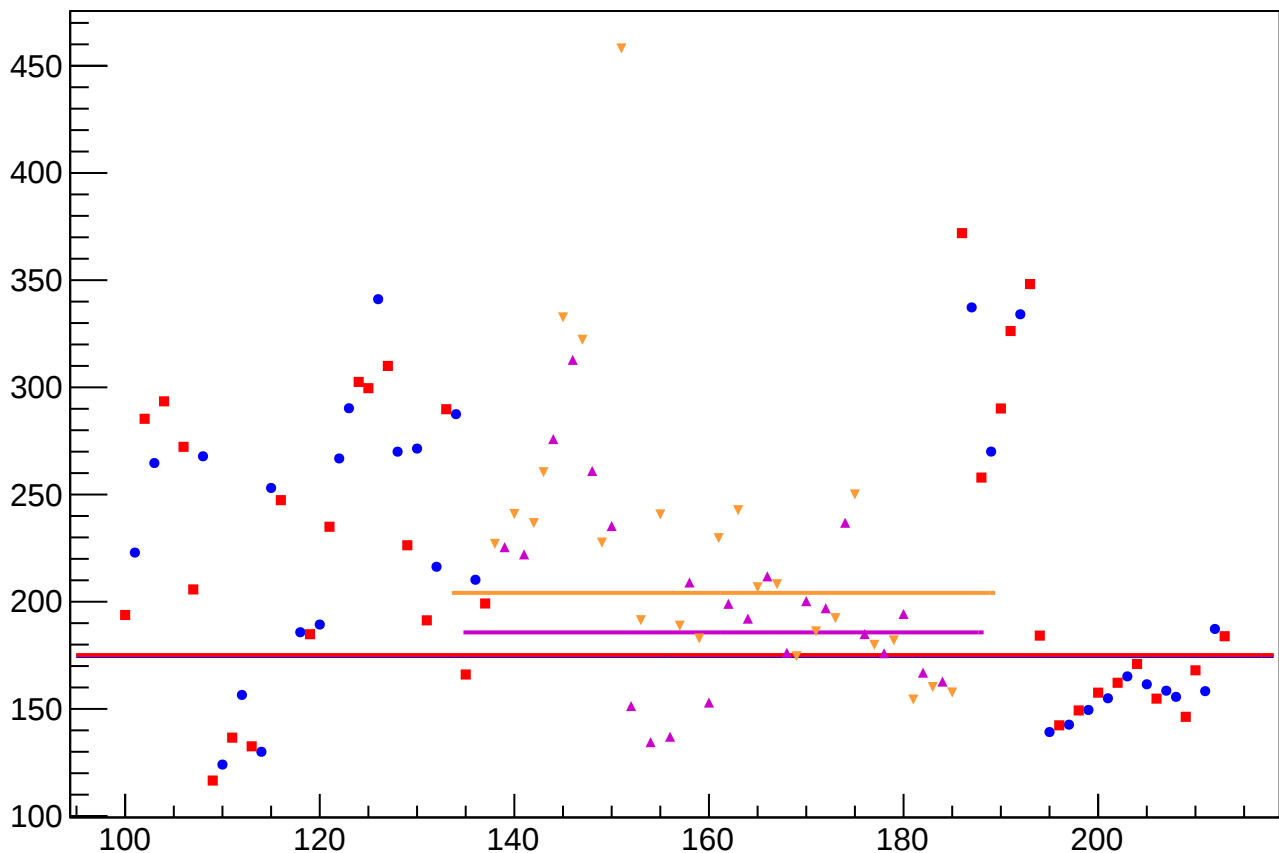
Left In: -37.460 ± 46.479 χ^2/NDF : 7.6/22

+ sign -25.470 ± 33.434 χ^2/NDF : 25.9/54

All: -9.551 ± 23.165 χ^2/NDF : 51.9/111

- sign 5.146 ± 32.125 χ^2/NDF : 25.6/56

asym_bcm_dg_us_rms vs Slug



Right In: 174.681 $\pm$ 0.032 χ^2 /NDF: 2032650.6/29

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 175.122 $\pm$ 0.031 χ^2 /NDF: 2611870.9/33

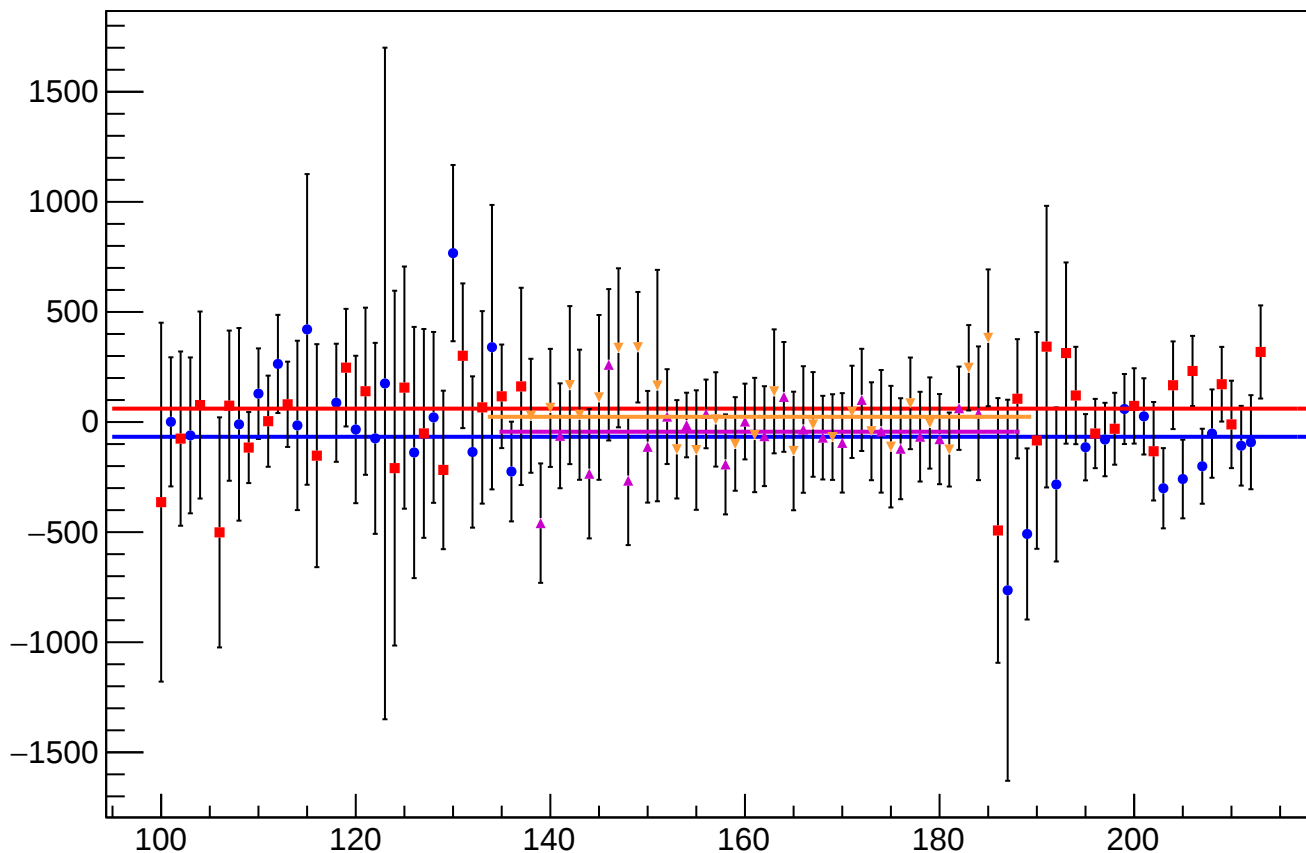
Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

+ sign 188.258 $\pm$ 0.024 χ^2 /NDF: 4090540.7/54

All: 184.054 $\pm$ 0.016 χ^2 /NDF: 8265042.3/111

- sign 180.172 $\pm$ 0.023 χ^2 /NDF: 4113679.6/56

asym_bcm_dg_ds_mean vs Slug



Right In: -66.959 ± 44.964 χ^2/NDF : 16.2/29

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: 60.955 ± 43.767 χ^2/NDF : 11.6/33

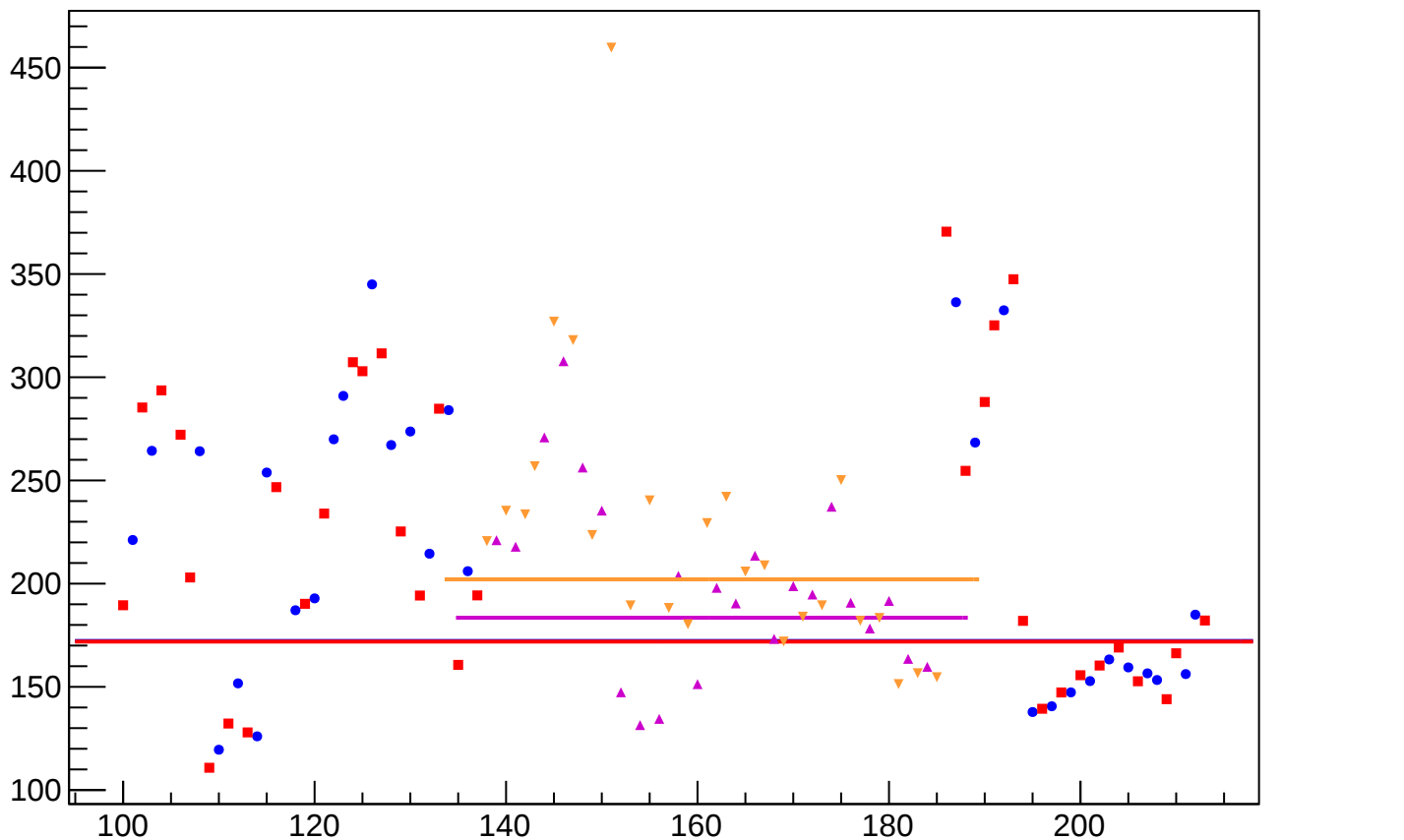
Left In: -43.978 ± 45.981 χ^2/NDF : 6.5/22

+ sign -25.251 ± 33.062 χ^2/NDF : 26.5/54

All: -6.325 ± 22.882 χ^2/NDF : 48.1/111

- sign 11.075 ± 31.702 χ^2/NDF : 20.9/56

asym_bcm_dg_ds_rms vs Slug



Right In: 172.231+/-0.032 χ^2/NDF : 2114385.3/29

Left Out: 202.081+/-0.034 χ^2/NDF :1692787.9/24

Right Out: 171.931+/-0.031 χ^2/NDF : 2772824.7/33

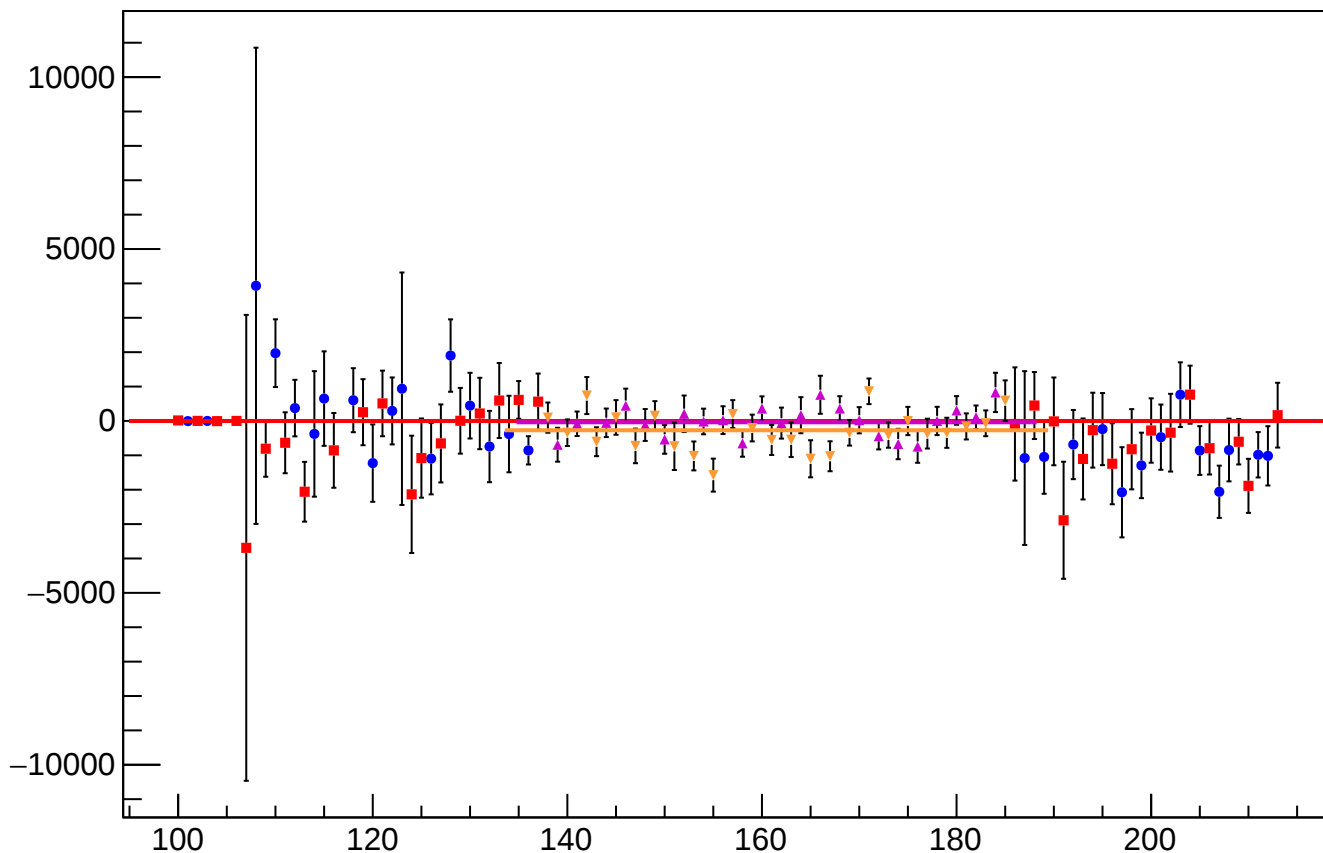
Left In: 183.498+/-0.033 χ^2/NDF :1483383.4/22

+ sign 185.942+/-0.023 χ^2/NDF : 4212035.6/54

All: 181.507+/-0.016 χ^2/NDF : 8603723.4/111

- sign 177.429+/-0.022 χ^2/NDF : 4322614.3/56

asym_cav4bQ_mean vs Slug



Right In: -1.601 ± 2.251 χ^2/NDF : 37.6/29

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: -0.762 ± 2.111 χ^2/NDF : 33.5/33

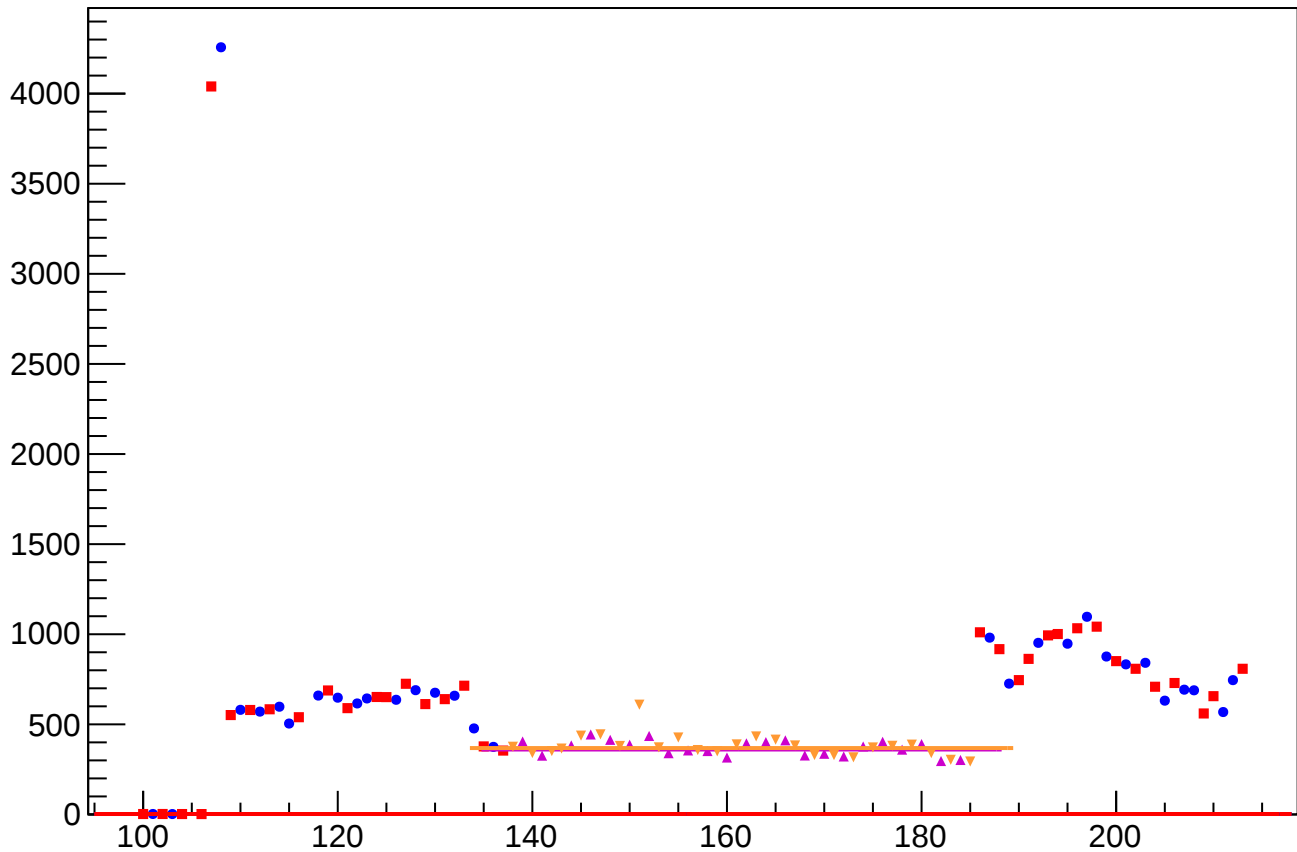
Left In: -39.078 ± 87.769 χ^2/NDF : 20.3/22

+ sign -1.782 ± 2.251 χ^2/NDF : 85.3/54

All: -1.251 ± 1.539 χ^2/NDF : 139.3/111

- sign -0.785 ± 2.110 χ^2/NDF : 53.9/56

asym_cav4bQ_rms vs Slug



Right In: 2.515 $\pm$ 0.002 χ^2 /NDF: 28940704.5/29

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.491 $\pm$ 0.001 χ^2 /NDF: 31159386.0/33

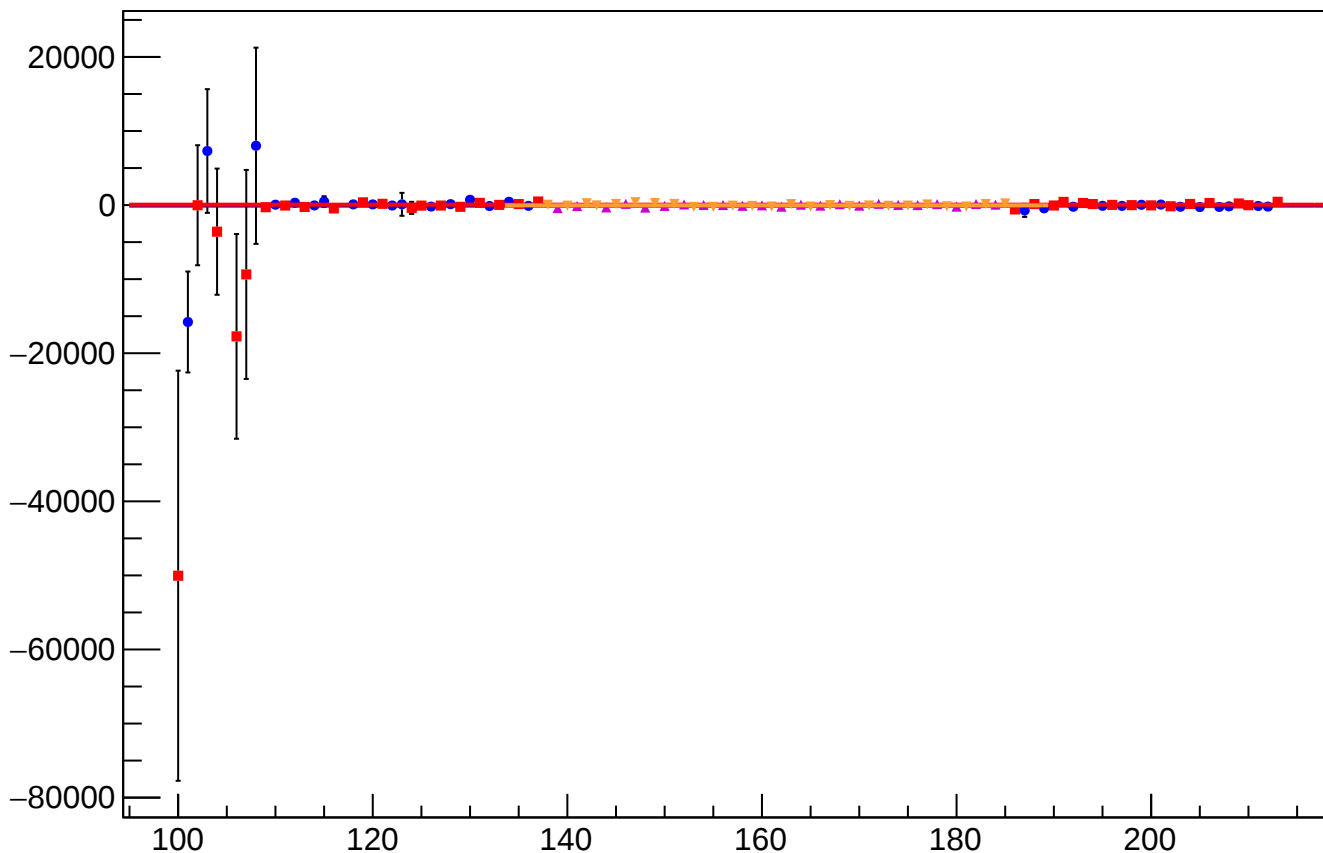
Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

+ sign 2.760 $\pm$ 0.002 χ^2 /NDF: 64939136.0/54

All: 2.727 $\pm$ 0.001 χ^2 /NDF: 129756770.0/111

- sign 2.698 $\pm$ 0.001 χ^2 /NDF: 64816816.8/56

asym_cav4cQ_mean vs Slug



Right In: -68.463 ± 48.995 χ^2/NDF : 21.4/29

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: 55.982 ± 48.417 χ^2/NDF : 24.1/33

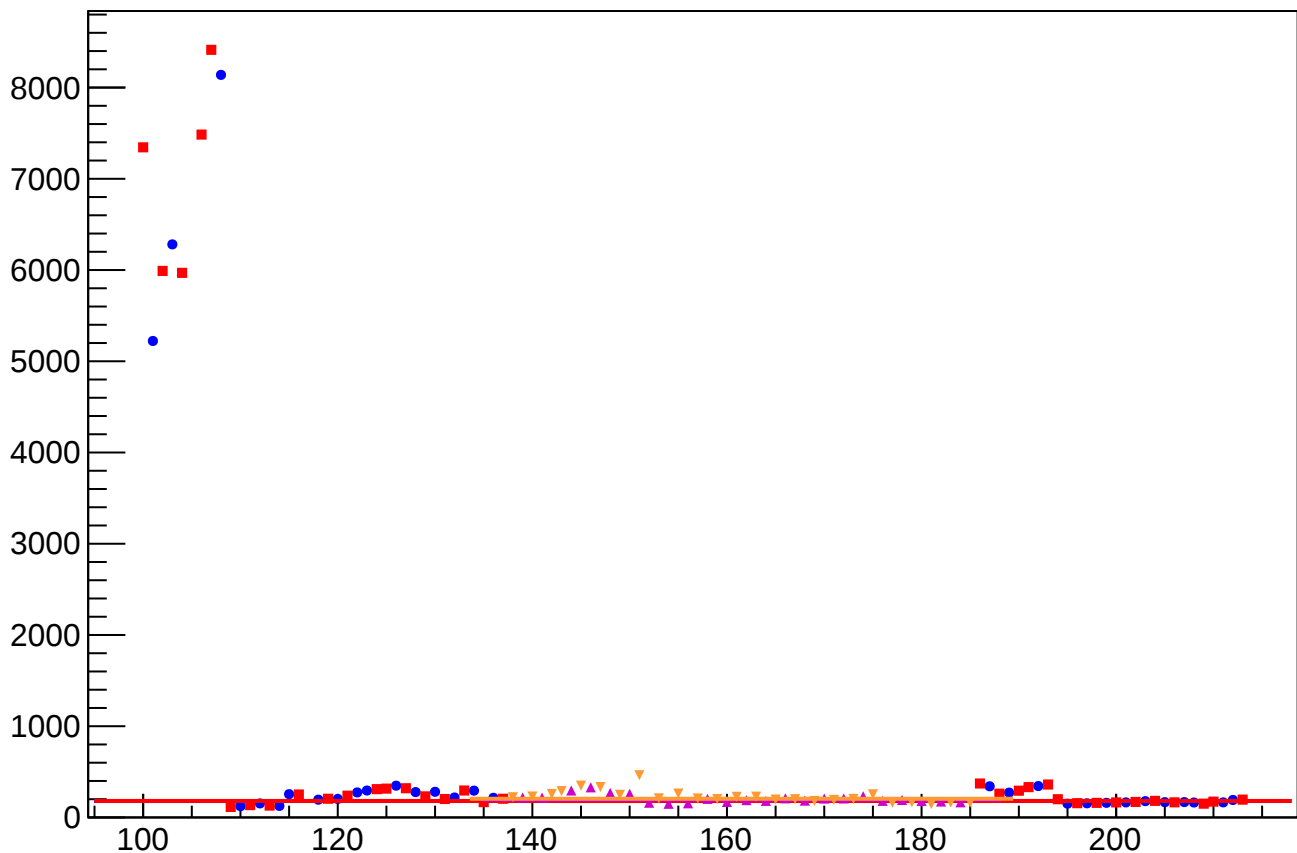
Left In: -28.205 ± 48.167 χ^2/NDF : 9.2/22

+ sign -53.433 ± 34.866 χ^2/NDF : 30.9/54

All: -19.182 ± 24.396 χ^2/NDF : 67.6/111

- sign 13.670 ± 34.147 χ^2/NDF : 34.8/56

asym_cav4cQ_rms vs Slug



Right In: 180.041 $\pm$ 0.035 χ^2 /NDF: 4538356.5/29

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 181.063 $\pm$ 0.034 χ^2 /NDF: 5425244.1/33

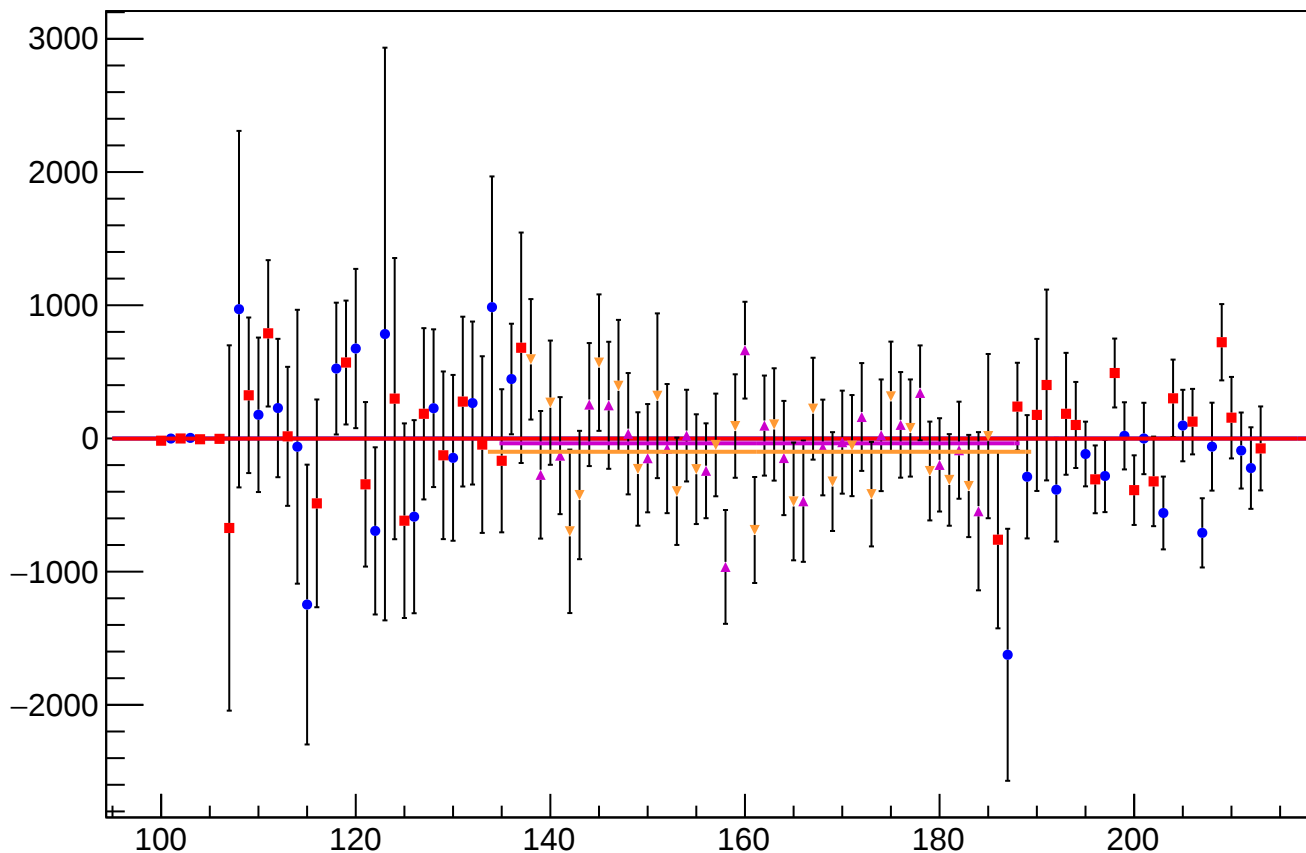
Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

+ sign 192.374 $\pm$ 0.025 χ^2 /NDF: 6751128.8/54

All: 189.766 $\pm$ 0.017 χ^2 /NDF: 13435766.6/13

- sign 187.266 $\pm$ 0.024 χ^2 /NDF: 6662728.5/56

asym_cav4dQ_mean vs Slug



Right In: -0.236 ± 1.736 χ^2/NDF : 28.1/29

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: -1.287 ± 1.622 χ^2/NDF : 28.1/33

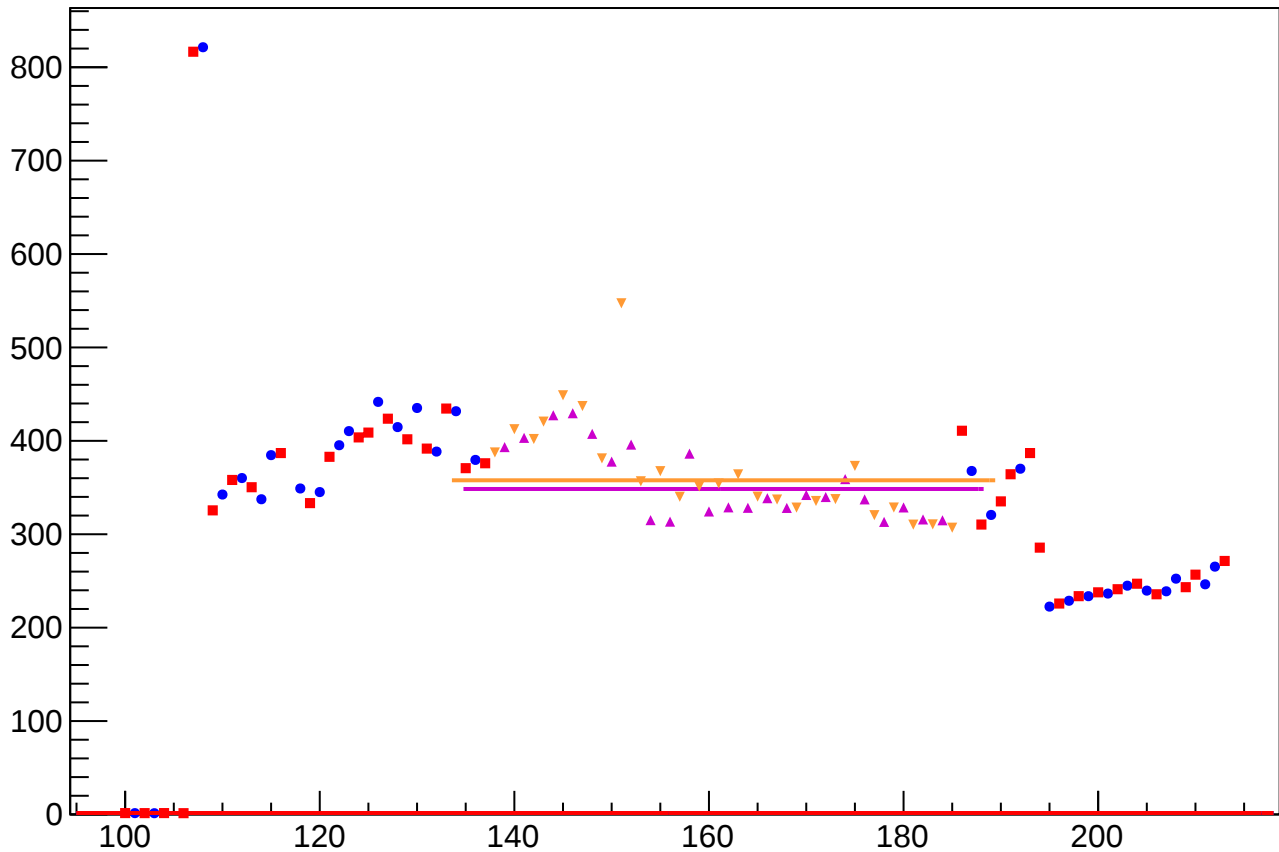
Left In: -36.497 ± 84.675 χ^2/NDF : 13.5/22

+ sign -0.278 ± 1.736 χ^2/NDF : 45.2/54

All: -0.824 ± 1.185 χ^2/NDF : 87.2/111

- sign -1.300 ± 1.622 χ^2/NDF : 41.8/56

asym_cav4dQ_rms vs Slug



Right In: 1.562 ± 0.001 $\chi^2/\text{NDF}: 29202246.6/29$

Left Out: 357.771 ± 0.060 $\chi^2/\text{NDF}: 547124.8/24$

Right Out: 1.550 ± 0.001 $\chi^2/\text{NDF}: 30866512.3/33$

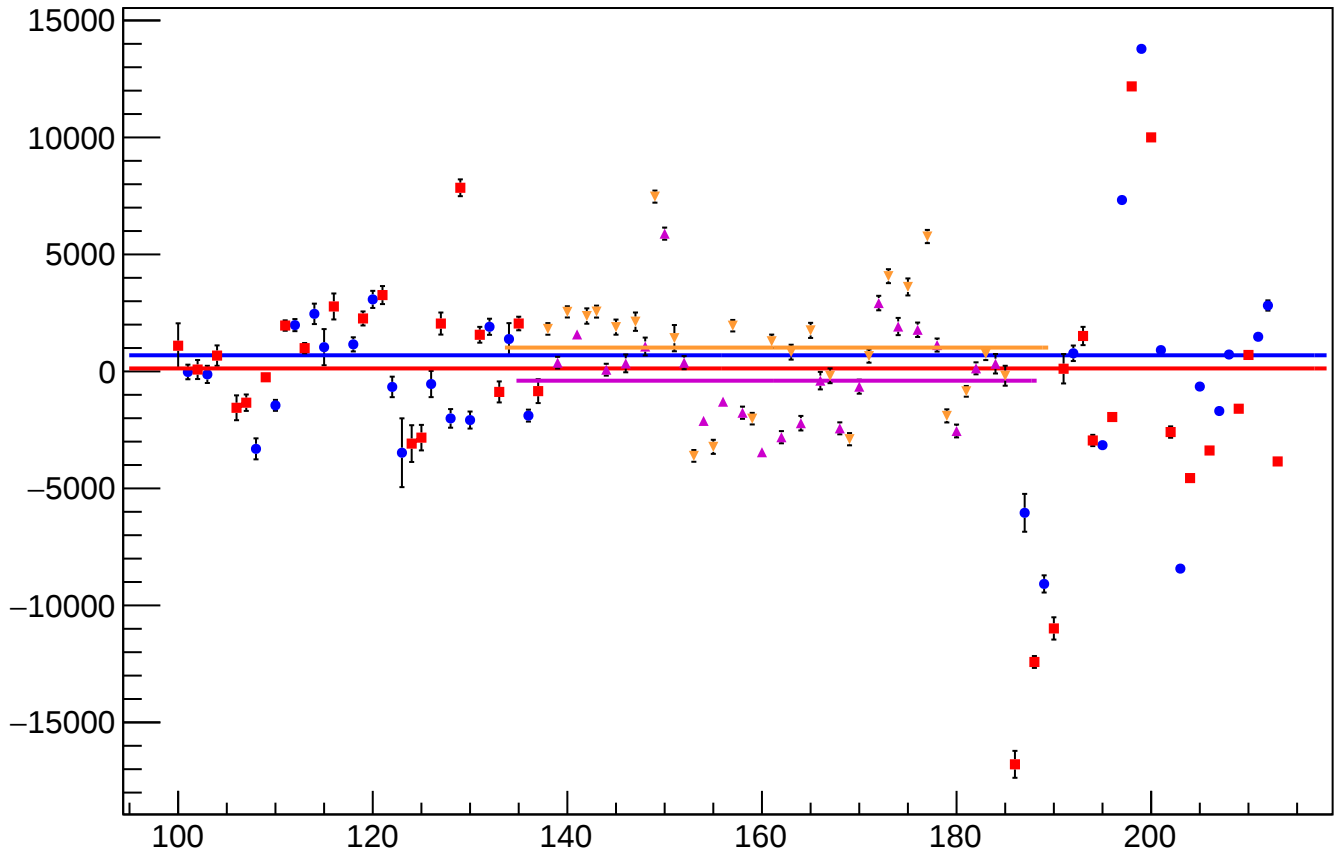
Left In: 348.464 ± 0.060 $\chi^2/\text{NDF}: 360425.7/22$

+ sign 1.713 ± 0.001 $\chi^2/\text{NDF}: 65537311.4/54$

All: 1.694 ± 0.001 $\chi^2/\text{NDF}: 130323032.5/111$

- sign 1.678 ± 0.001 $\chi^2/\text{NDF}: 64785264.3/56$

asym_bcm0l02_mean vs Slug



Right In: 689.578 $\pm$ 48.747 χ^2 /NDF: 10944.7/29

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: 127.454 $\pm$ 47.145 χ^2 /NDF: 13691.2/33

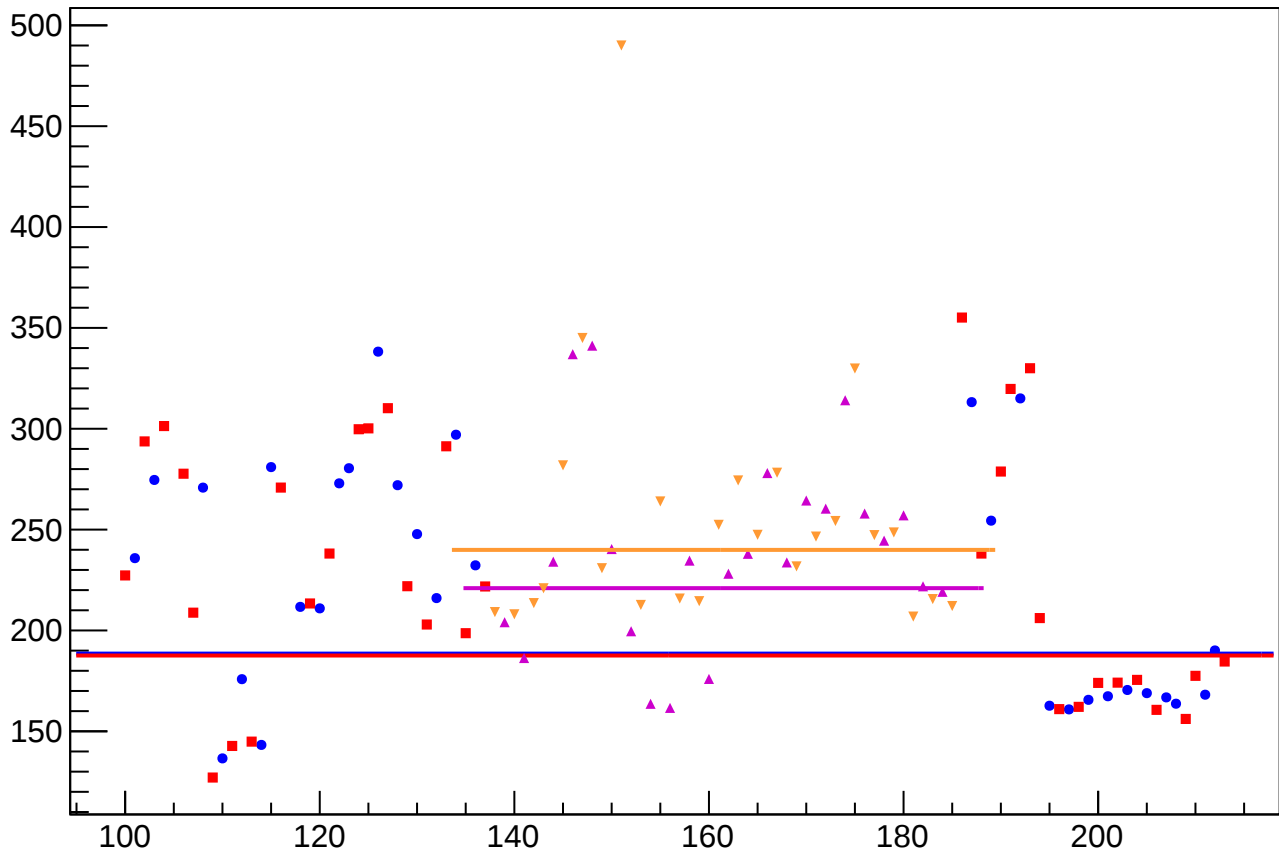
Left In: -396.609 $\pm$ 55.090 χ^2 /NDF:1581.0/22

+ sign 827.590 $\pm$ 37.156 χ^2 /NDF: 13274.0/54

All: 349.867 $\pm$ 25.788 χ^2 /NDF: 28917.4/111

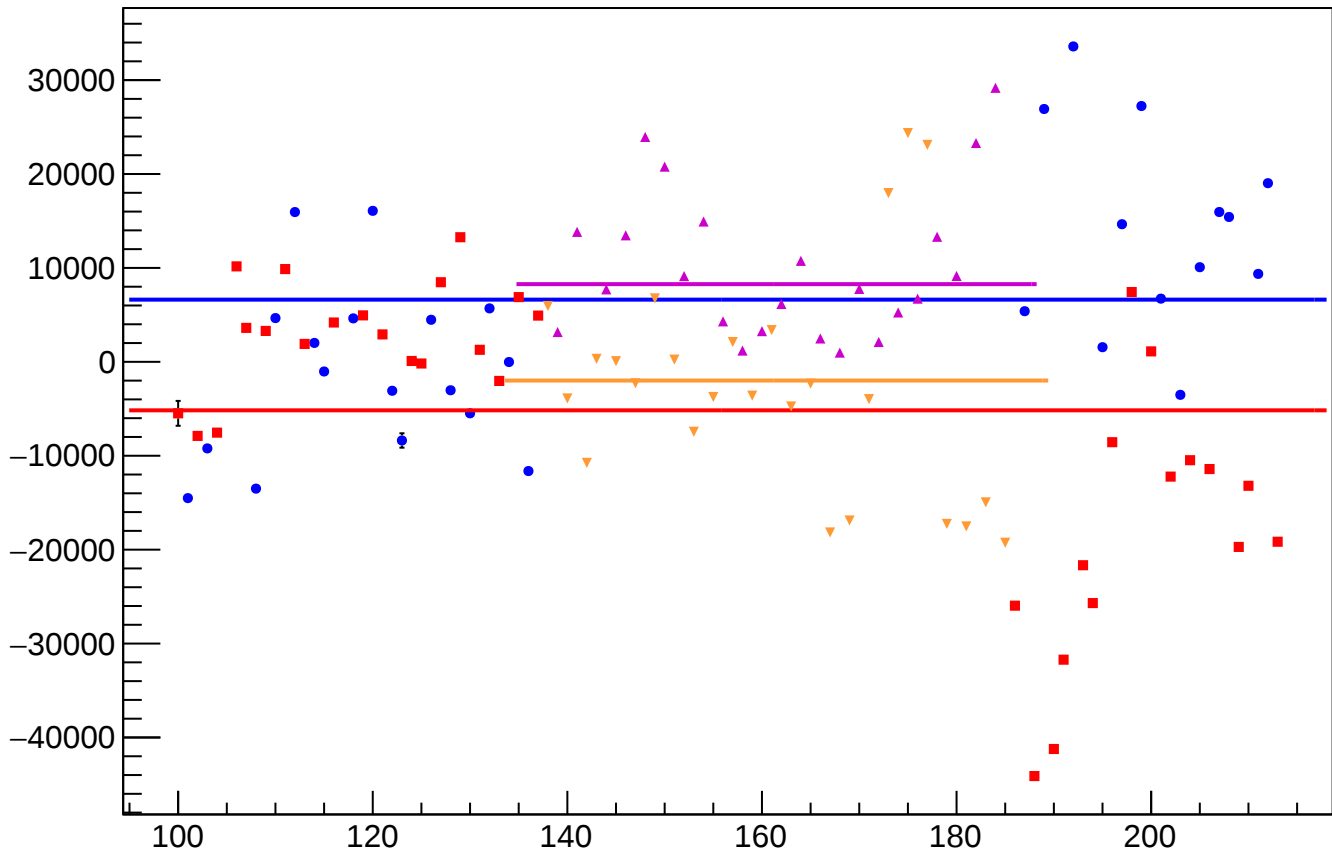
- sign -94.097 $\pm$ 35.819 χ^2 /NDF: 15324.5/56

asym_bcm0l02_rms vs Slug



Right In: 188.522 $\pm$ 0.034	χ^2 /NDF: 1545636.8/29	+ sign 210.067 $\pm$ 0.026	χ^2 /NDF: 3478838.7/54
Left Out: 239.942 $\pm$ 0.041	χ^2 /NDF: 1000770.0/24	All: 205.727 $\pm$ 0.018	χ^2 /NDF: 7405046.0/111
Right Out: 187.576 $\pm$ 0.033	χ^2 /NDF: 2121642.2/33	- sign 201.694 $\pm$ 0.025	χ^2 /NDF: 3873572.7/56
Left In: 220.972 $\pm$ 0.039	χ^2 /NDF: 1327680.6/22		

asym_bpm0i02WS_mean vs Slug



Right In: 6622.962 $\pm$ 40.682 χ^2 /NDF: 93694.9/29

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF: 63766.6/24

+ sign 2496.345 $\pm$ 29.364 χ^2 /NDF: 178941.2/54

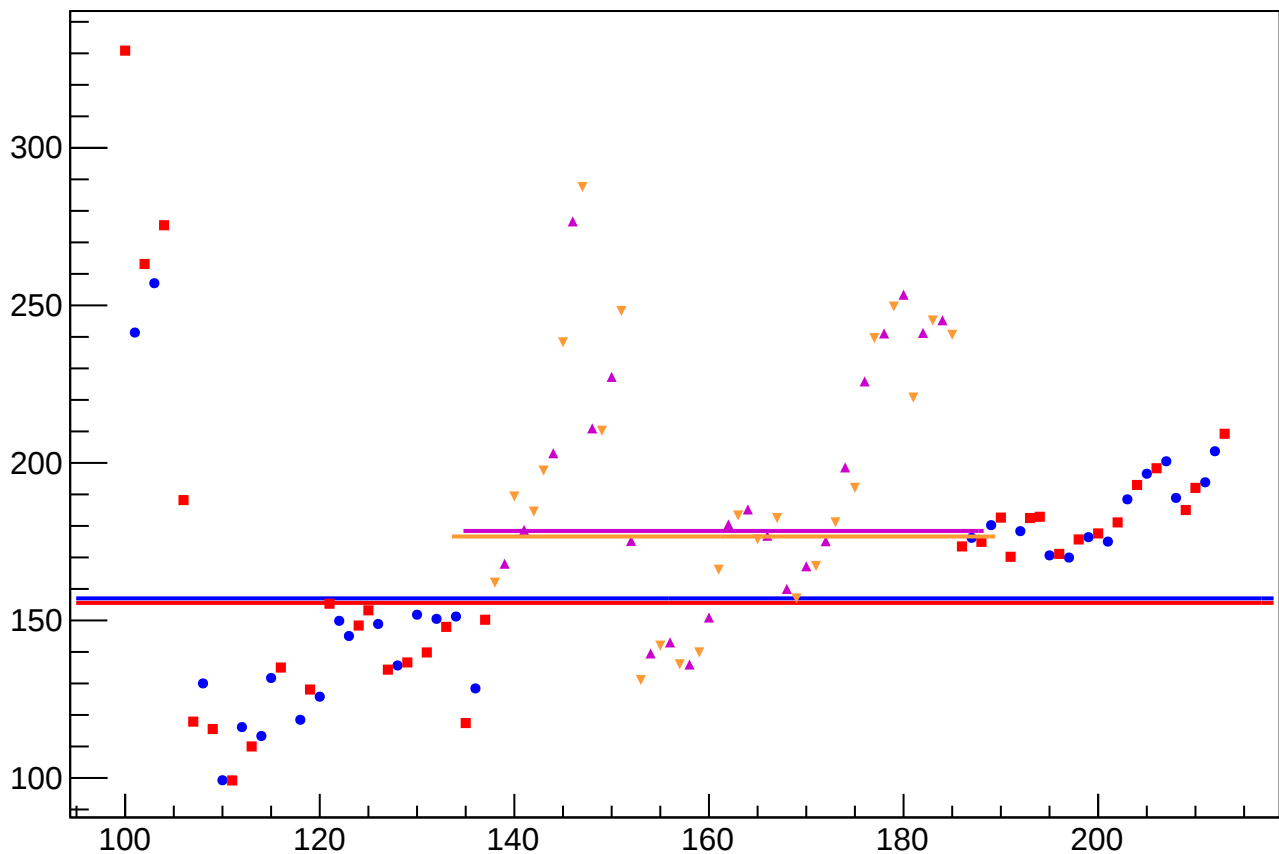
Right Out: -5164.569 $\pm$ 38.756 χ^2 /NDF: 144038.9/33

All: 1572.636 $\pm$ 20.694 χ^2 /NDF: 399935.9/1

Left In: 8273.228 $\pm$ 44.301 χ^2 /NDF: 22870.2/22

- sign 661.138 $\pm$ 29.169 χ^2 /NDF: 219028.6/56

asym_bpm0i02WS_rms vs Slug



Right In: 157.009 $\pm$ 0.029 χ^2 /NDF: 1431781.2/29

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 155.571 $\pm$ 0.027 χ^2 /NDF: 1731052.3/33

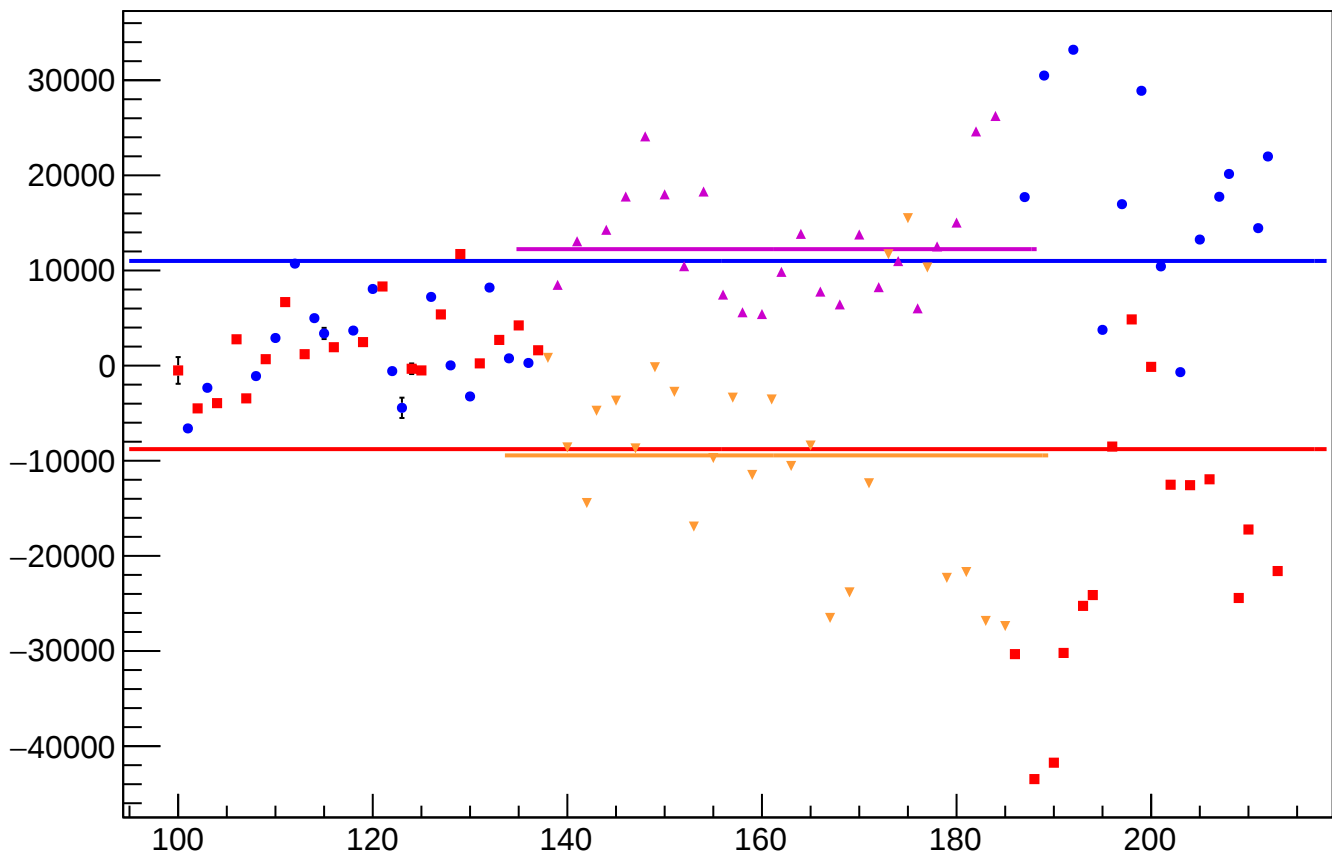
Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

+ sign 166.413 $\pm$ 0.021 χ^2 /NDF: 3205934.9/54

All: 165.940 $\pm$ 0.015 χ^2 /NDF: 6532939.3/111

- sign 165.474 $\pm$ 0.021 χ^2 /NDF: 3325975.9/56

asym_bpm0i02aWS_mean vs Slug



Right In: 11002.209 $\pm$ 45.159 χ^2 /NDF: 55126.9/29

Left Out: -9437.408 $\pm$ 45.534 χ^2 /NDF:62220.4/24

Right Out: -8778.623 $\pm$ 42.880 χ^2 /NDF: 115696.0/33

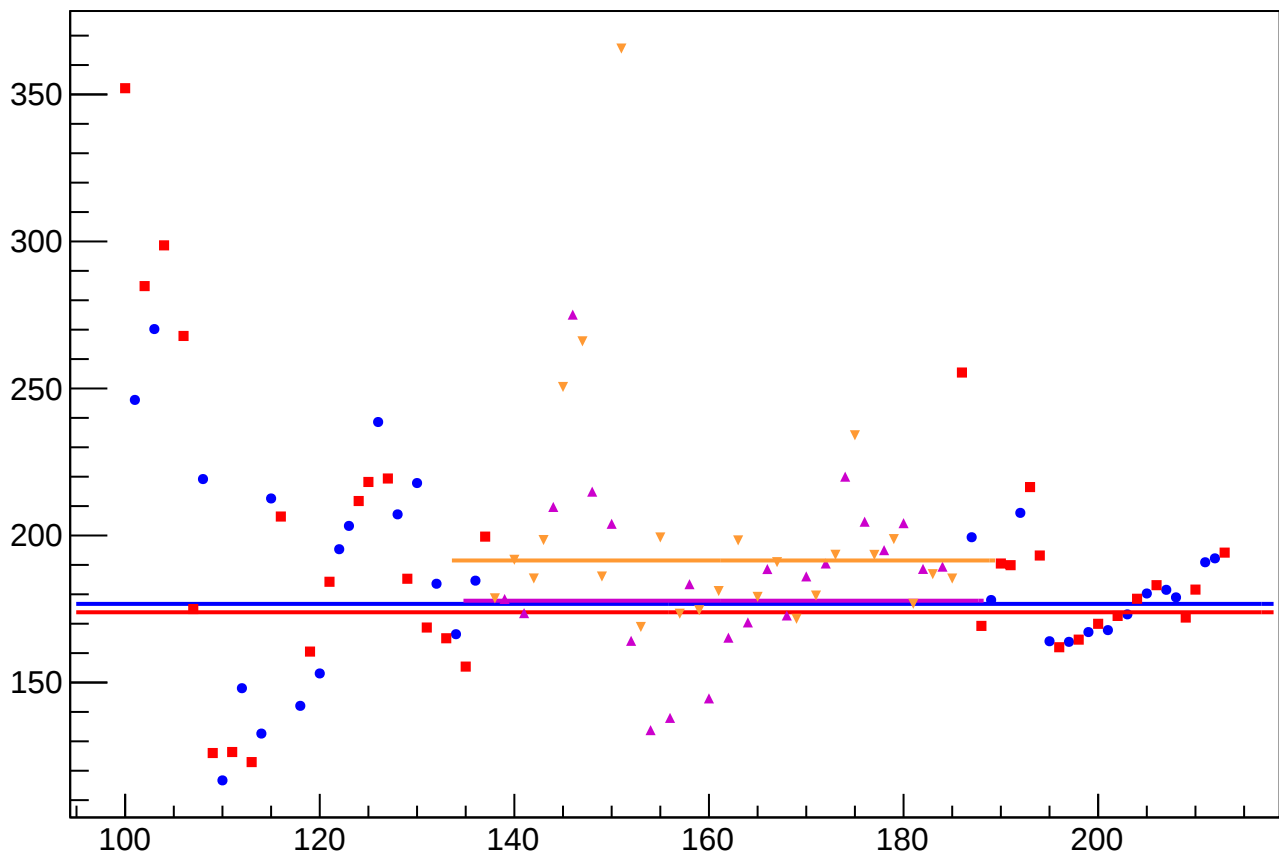
Left In: 12242.226 $\pm$ 43.944 χ^2 /NDF:16615.8/22

+ sign 867.007 $\pm$ 32.064 χ^2 /NDF: 218929.6/54

All: 1183.869 $\pm$ 22.171 χ^2 /NDF: 468642.8/11

- sign 1474.160 $\pm$ 30.690 χ^2 /NDF: 249526.0/56

asym_bpm0i02aWS_rms vs Slug



Right In: 176.743 $\pm$ 0.032 χ^2 /NDF: 781849.5/29

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 173.891 $\pm$ 0.030 χ^2 /NDF: 1151604.9/33

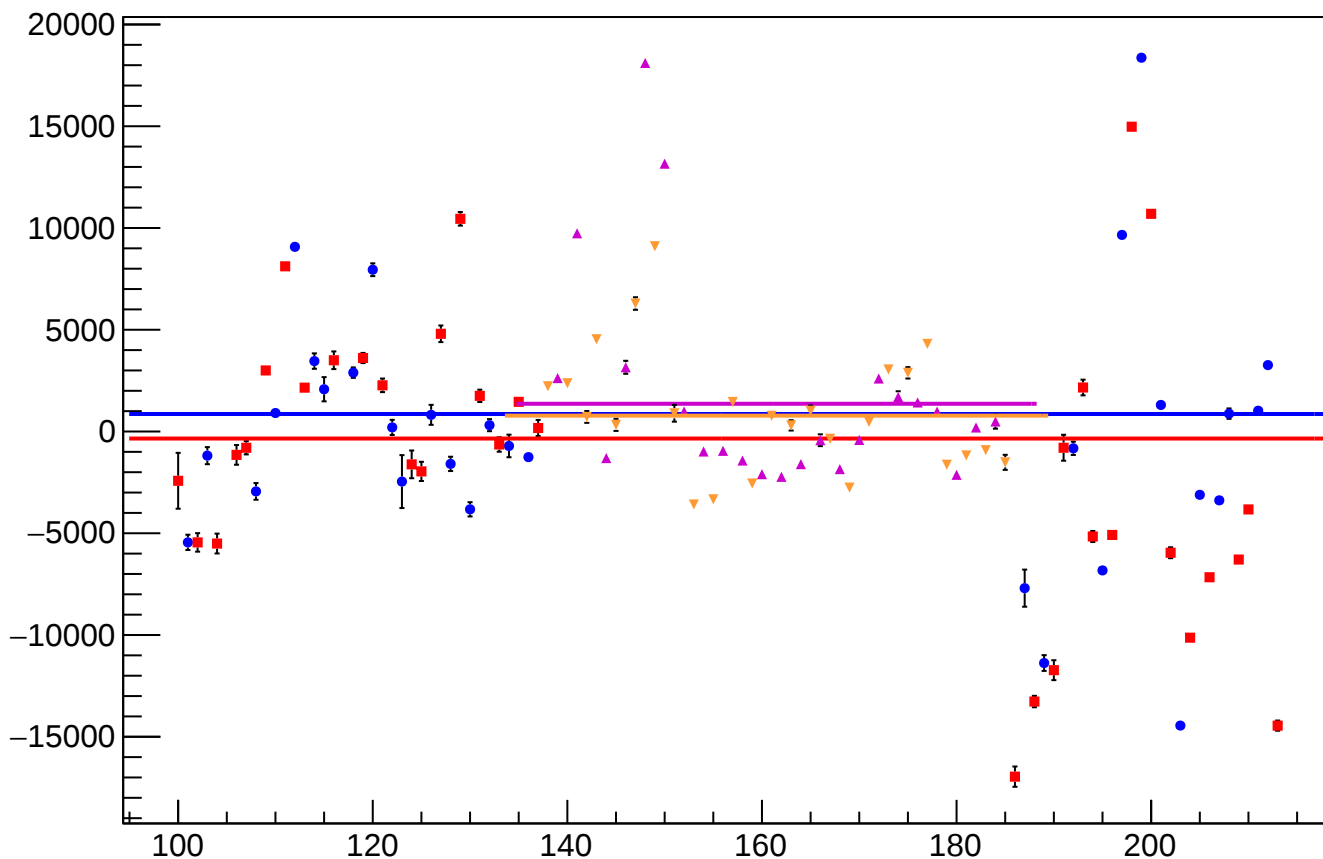
Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

+ sign 184.064 $\pm$ 0.023 χ^2 /NDF: 1615096.9/54

All: 179.755 $\pm$ 0.016 χ^2 /NDF: 3706591.9/111

- sign 175.808 $\pm$ 0.022 χ^2 /NDF: 2022296.3/56

asym_bpm0i05WS_mean vs Slug



Right In: 859.868 $\pm$ 50.602 χ^2 /NDF: 20439.0/29

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: -345.795 $\pm$ 48.260 χ^2 /NDF: 24948.3/33

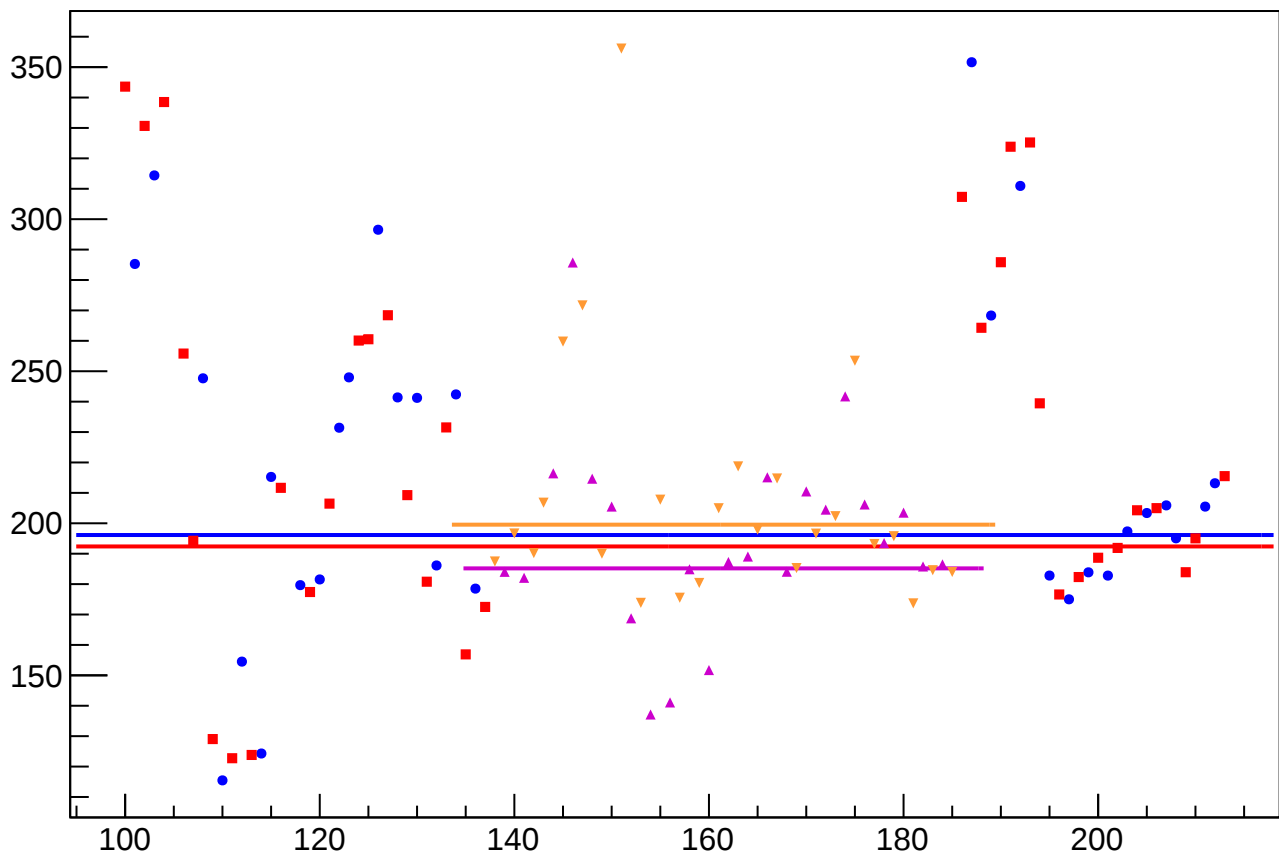
Left In: 1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

+ sign 817.367 $\pm$ 34.616 χ^2 /NDF: 24701.1/54

All: 679.844 $\pm$ 23.970 χ^2 /NDF: 61972.2/111

- sign 553.160 $\pm$ 33.224 χ^2 /NDF: 37240.8/56

asym_bpm0i05WS_rms vs Slug



Right In: 196.143 ± 0.036 $\chi^2/\text{NDF}: 1429138.2/29$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 192.384 ± 0.034 $\chi^2/\text{NDF}: 2162853.9/33$

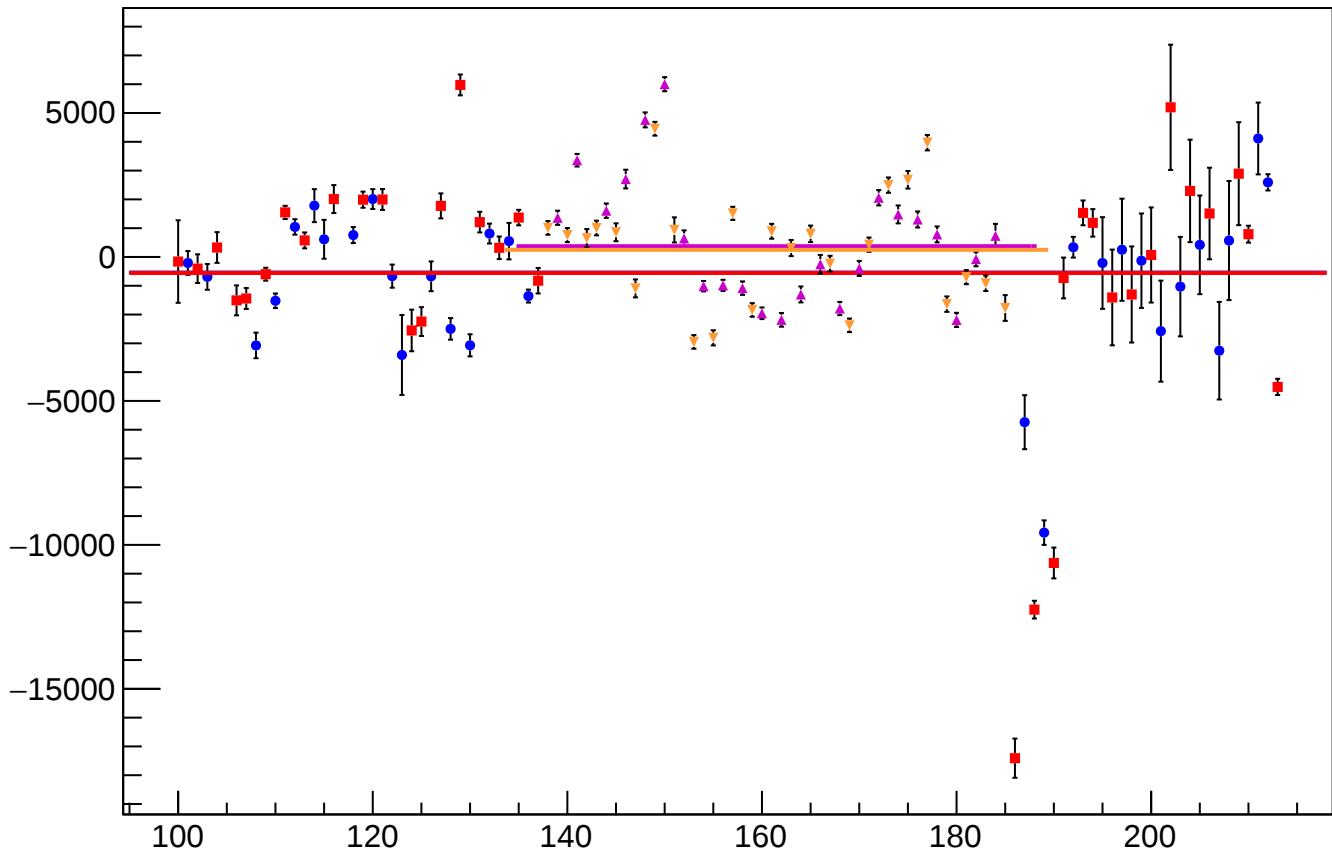
Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

+ sign 197.954 ± 0.024 $\chi^2/\text{NDF}: 2163310.2/54$

All: 193.080 ± 0.017 $\chi^2/\text{NDF}: 5308608.9/111$

- sign 188.589 ± 0.023 $\chi^2/\text{NDF}: 3069113.8/56$

asym_bpm0i07WS_mean vs Slug



Right In: -542.837 $\pm$ 79.807 χ^2/NDF : 913.3/29

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: -555.028 $\pm$ 70.319 χ^2/NDF : 3400.3/33

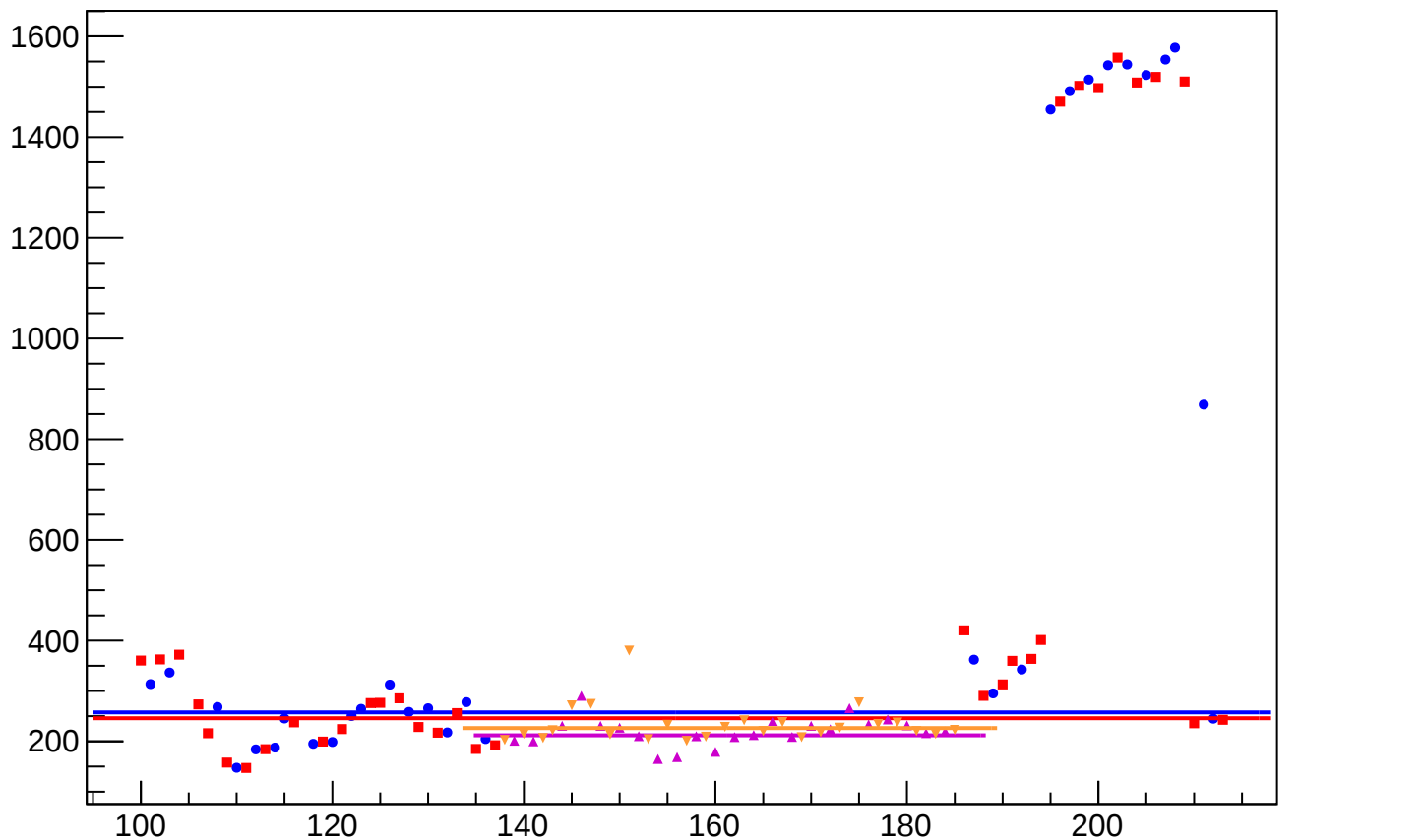
Left In: 374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

+ sign 2.342 $\pm$ 44.470 χ^2/NDF : 2336.1/54

All: 25.102 $\pm$ 30.471 χ^2/NDF : 7650.7/111

- sign 45.245 $\pm$ 41.835 χ^2/NDF : 5314.1/56

asym_bpm0i07WS_rms vs Slug



Right In: 257.520 $\pm$ 0.056 χ^2 /NDF: 10145731.7/29

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 245.898 $\pm$ 0.050 χ^2 /NDF: 9273307.6/33

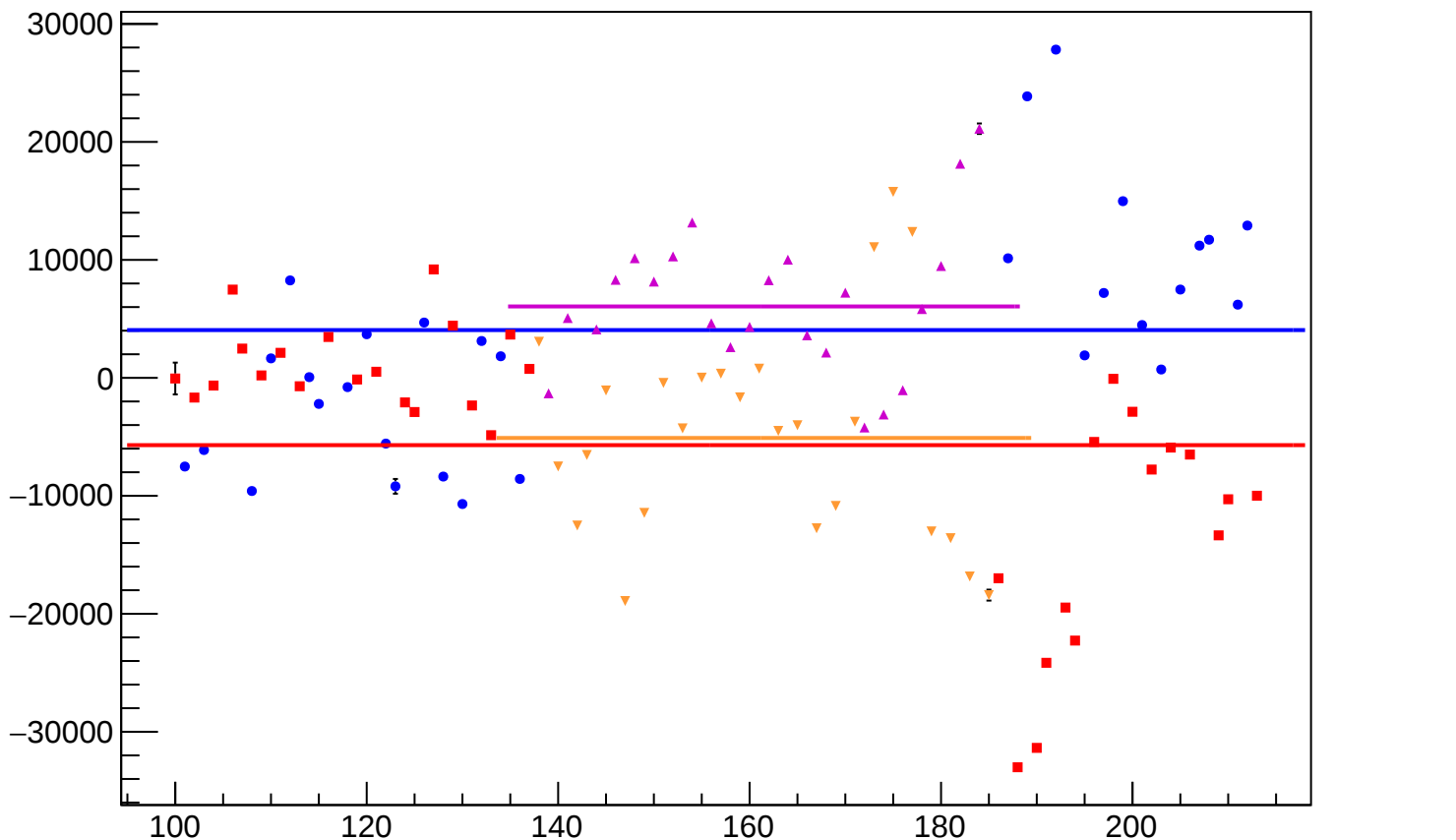
Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

+ sign 236.009 $\pm$ 0.031 χ^2 /NDF: 10877518.3/54

All: 229.627 $\pm$ 0.022 χ^2 /NDF: 21113605.1/11

- sign 223.979 $\pm$ 0.030 χ^2 /NDF: 10158448.2/56

asym_bpm1i02WS_mean vs Slug



Right In: 4050.714+/-34.584 χ^2/NDF : 79411.8/29

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: -5703.034+/-32.712 χ^2/NDF : 103898.9/33

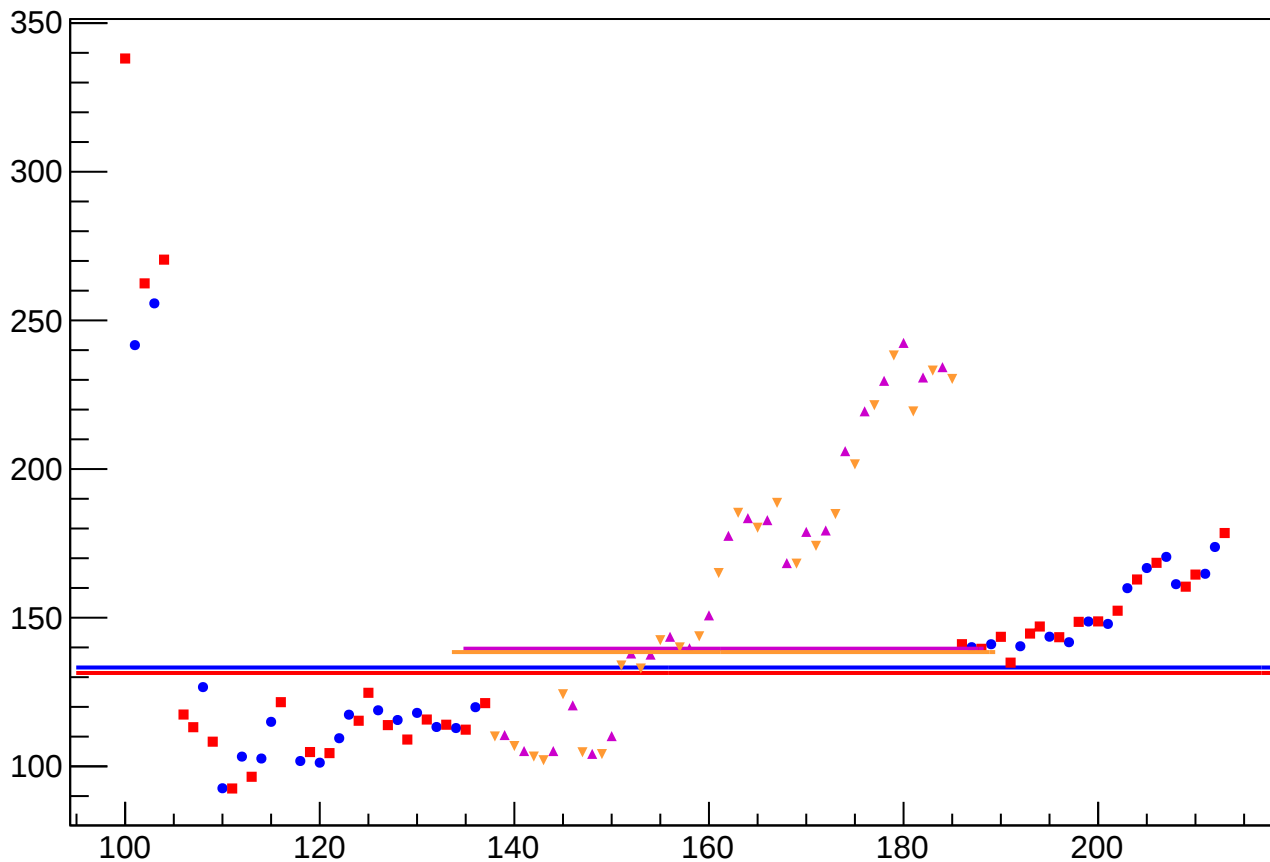
Left In: 6053.569+/-34.998 χ^2/NDF : 17590.3/22

+ sign -640.203+/-24.137 χ^2/NDF : 169677.9/54

All: -428.652+/-16.982 χ^2/NDF : 351547.0/11

- sign -221.271+/-23.898 χ^2/NDF : 181717.0/56

asym_bpm1i02WS_rms vs Slug



Right In: 133.251+/-0.024 χ^2/NDF : 1431895.6/29

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

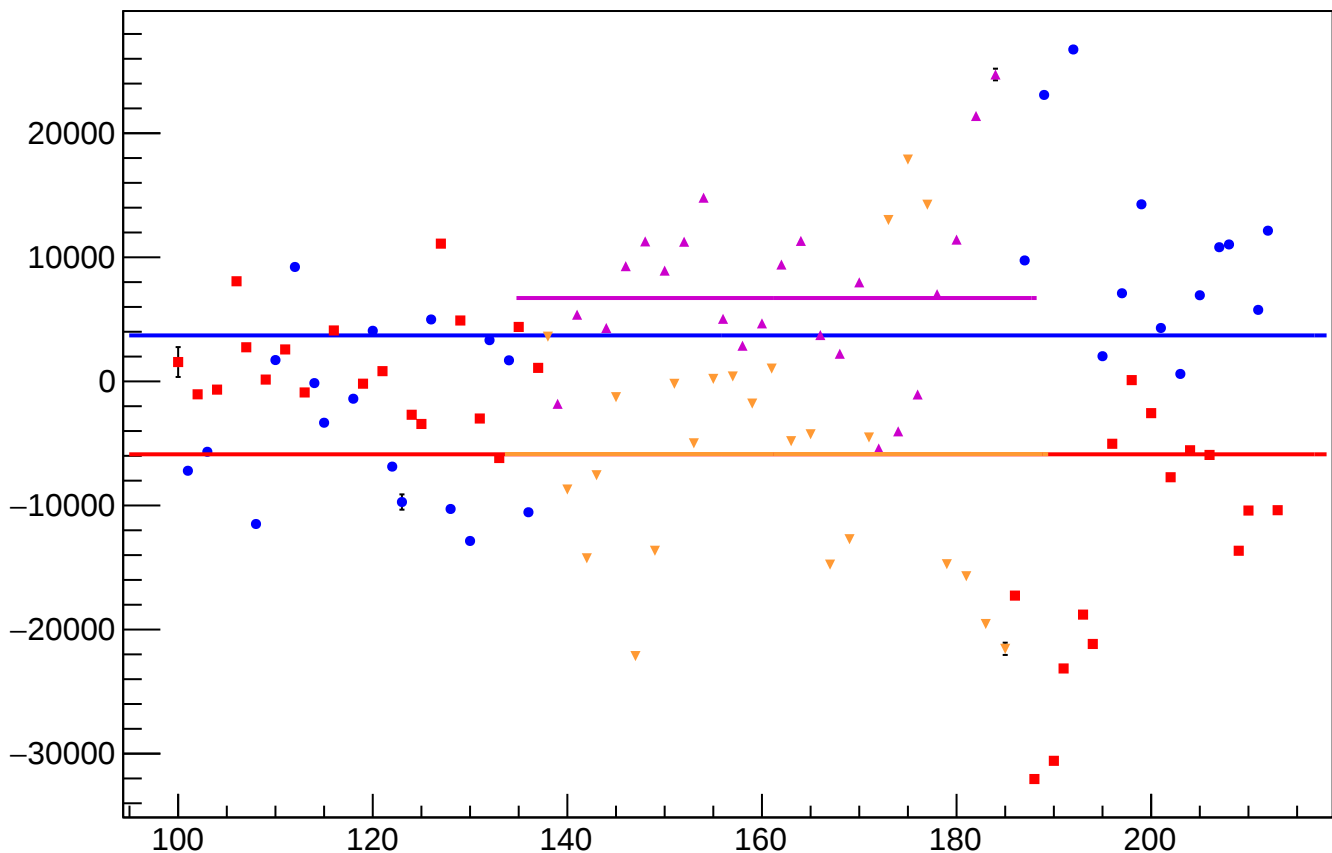
Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

+ sign 135.910+/-0.017 χ^2/NDF : 4004386.3/54

All: 135.560+/-0.012 χ^2/NDF : 8062607.2/111

- sign 135.217+/-0.017 χ^2/NDF : 4057388.1/56

asym_bpm2i01WS_mean vs Slug



Right In: 3705.569+/-34.583 χ^2/NDF : 84501.9/29

Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24

Right Out: -5876.653+/-32.830 χ^2/NDF : 104675.2/33

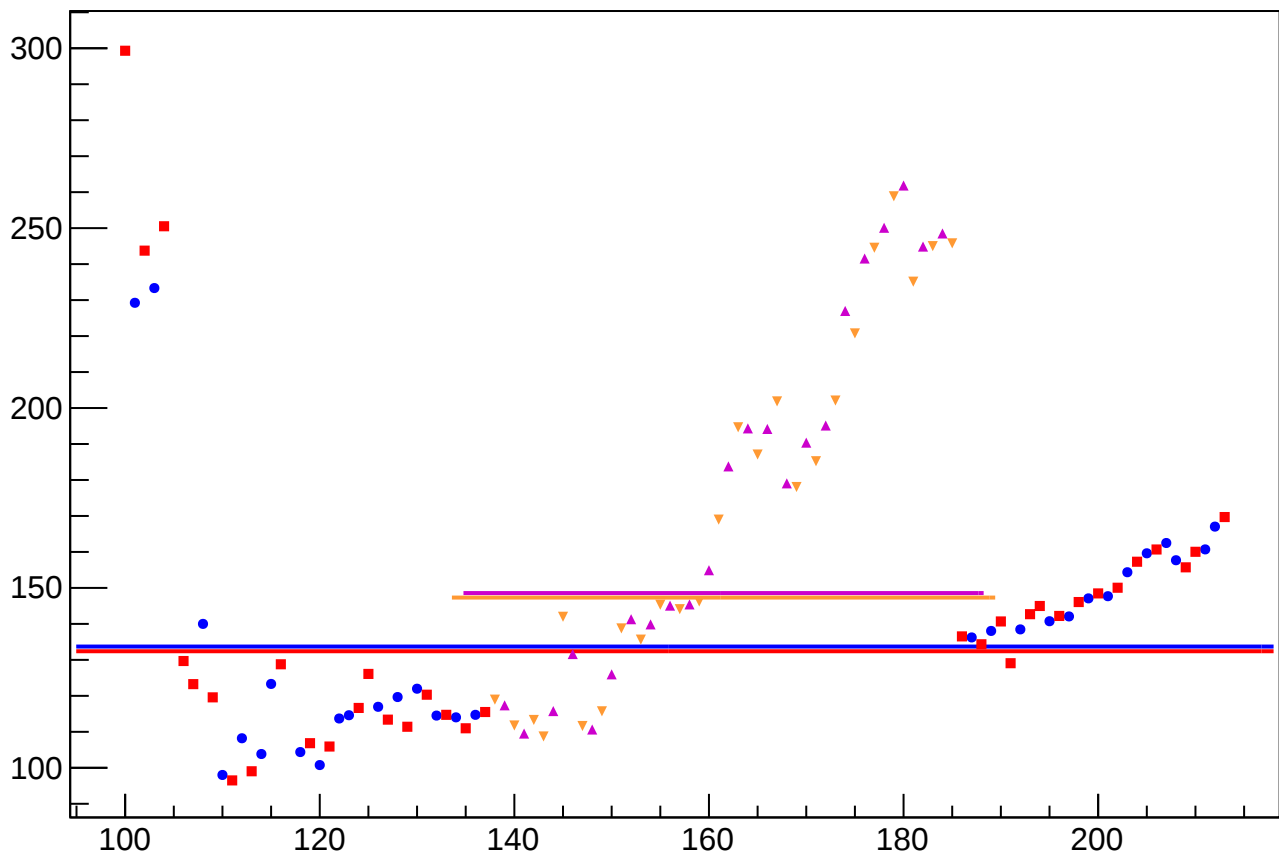
Left In: 6718.475+/-37.276 χ^2/NDF : 20934.3/22

+ sign -897.607+/-24.900 χ^2/NDF : 184701.8/54

All: -633.324+/-17.513 χ^2/NDF : 374830.8/11

- sign -374.589+/-24.637 χ^2/NDF : 189906.1/56

asym_bpm2i01WS_rms vs Slug



Right In: 133.702 $\pm$ 0.024 χ^2 /NDF: 1135040.7/29

Left Out: 147.317 $\pm$ 0.025 χ^2 /NDF: 2511679.9/24

Right Out: 132.398 $\pm$ 0.023 χ^2 /NDF: 1229295.8/33

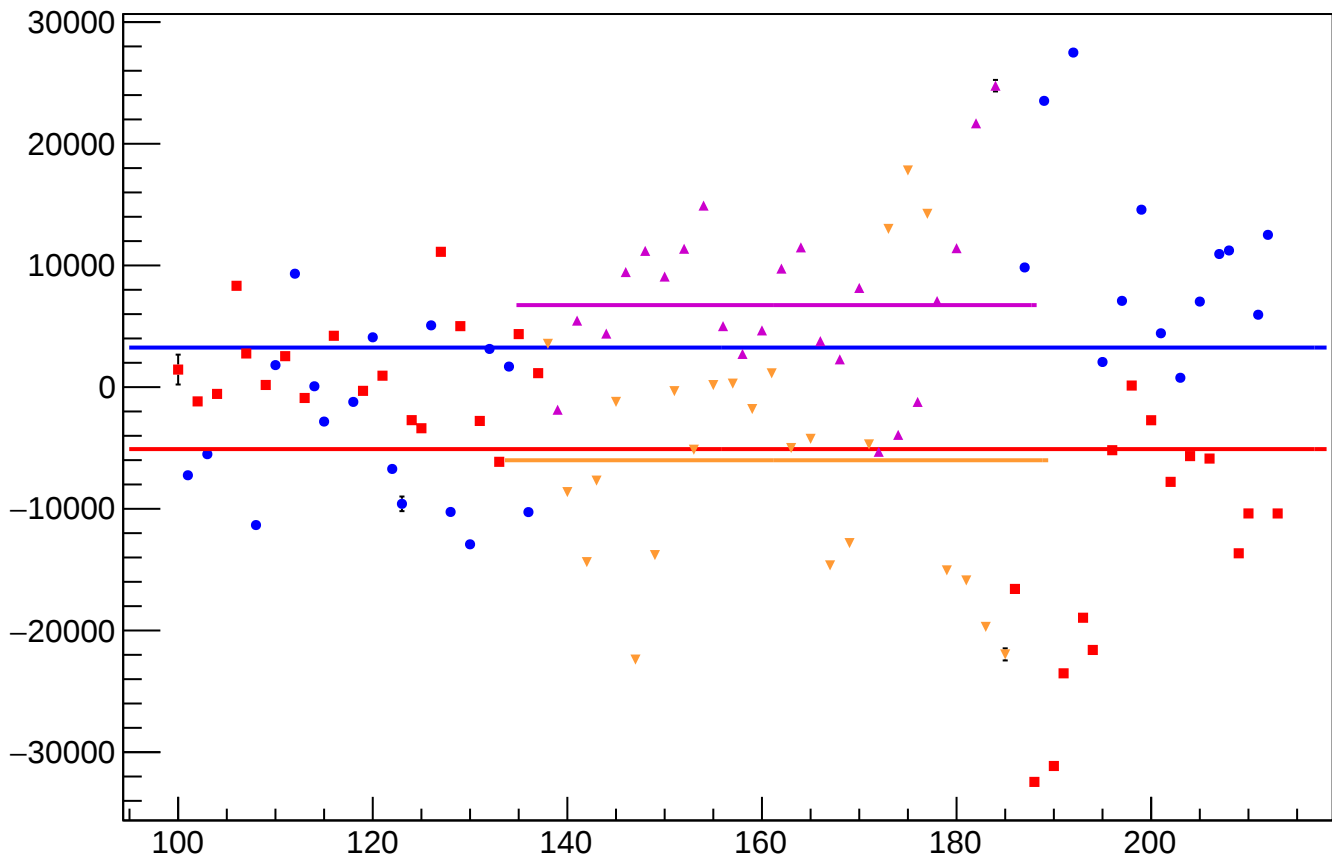
Left In: 148.569 $\pm$ 0.026 χ^2 /NDF: 2393185.0/22

+ sign 140.259 $\pm$ 0.018 χ^2 /NDF: 3796015.6/54

All: 139.856 $\pm$ 0.012 χ^2 /NDF: 7631494.6/111

- sign 139.462 $\pm$ 0.017 χ^2 /NDF: 3834443.5/56

asym_bpm2i02WS_mean vs Slug



Right In: 3252.100+/-34.500 χ^2/NDF : 84239.6/29

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: -5092.440+/-32.820 χ^2/NDF : 99776.9/33

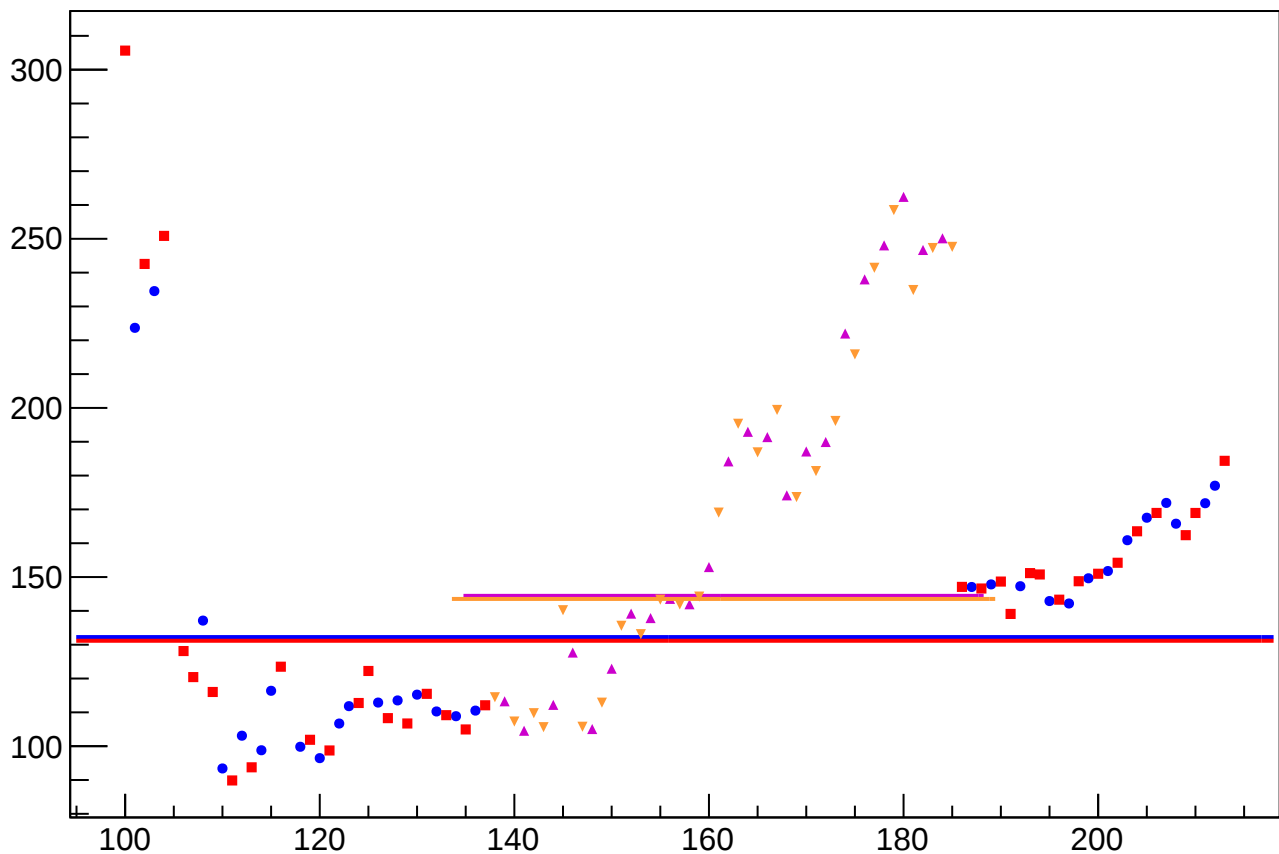
Left In: 6740.666+/-36.379 χ^2/NDF : 22071.8/22

+ sign -1301.419+/-24.599 χ^2/NDF : 187525.1/54

All: -535.087+/-17.312 χ^2/NDF : 369625.3/11

- sign 216.981+/-24.369 χ^2/NDF : 180177.2/56

asym_bpm2i02WS_rms vs Slug



Right In: 132.256+/-0.024 χ^2/NDF : 1557010.7/29

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 131.166+/-0.023 χ^2/NDF : 1731252.3/33

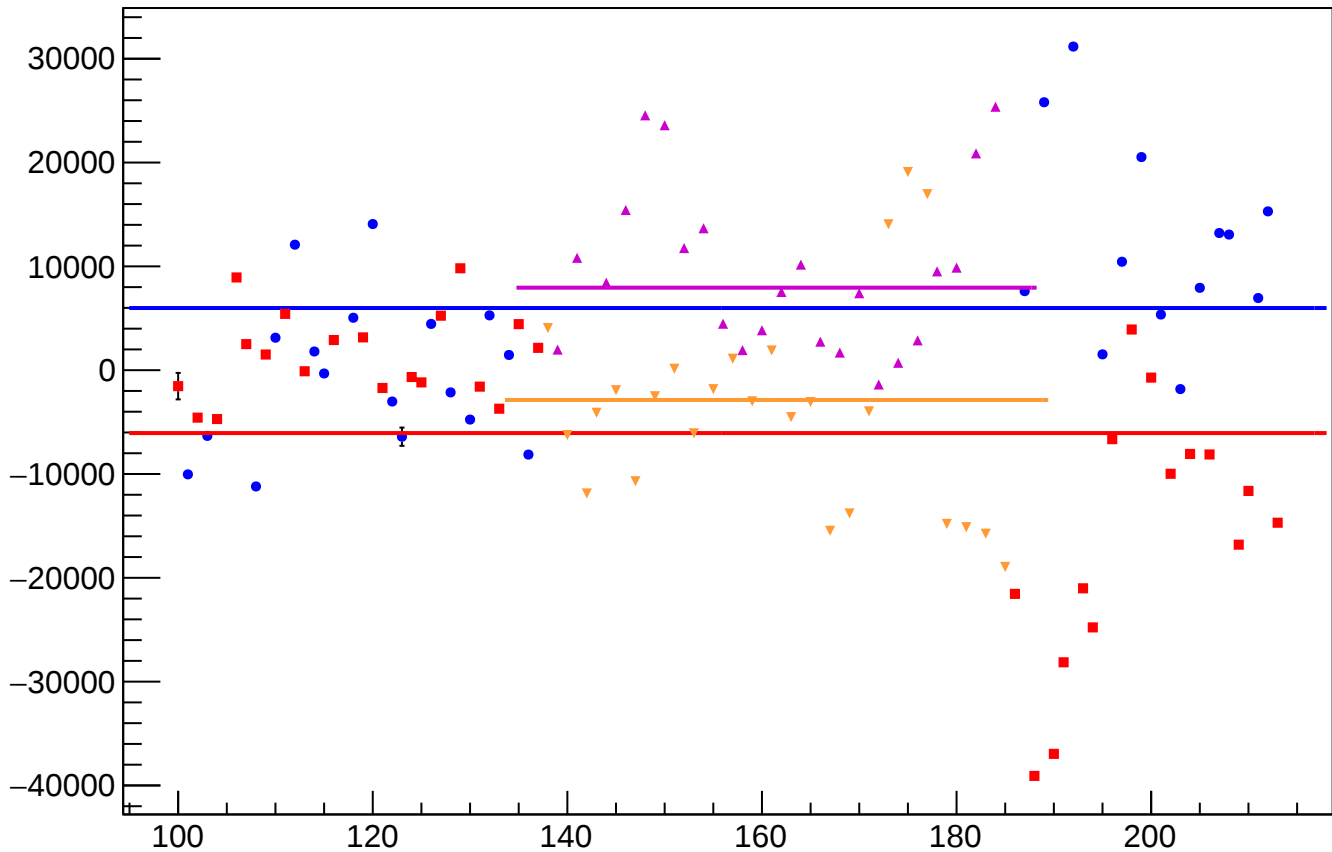
Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

+ sign 137.799+/-0.017 χ^2/NDF : 4366818.1/54

All: 137.457+/-0.012 χ^2/NDF : 8832561.7/111

- sign 137.122+/-0.017 χ^2/NDF : 4464978.2/56

asym_bpm0i01WS_mean vs Slug



Right In: 5987.448+/-41.662 χ^2/NDF : 63478.4/29

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: -6056.897+/-39.629 χ^2/NDF : 99863.5/33

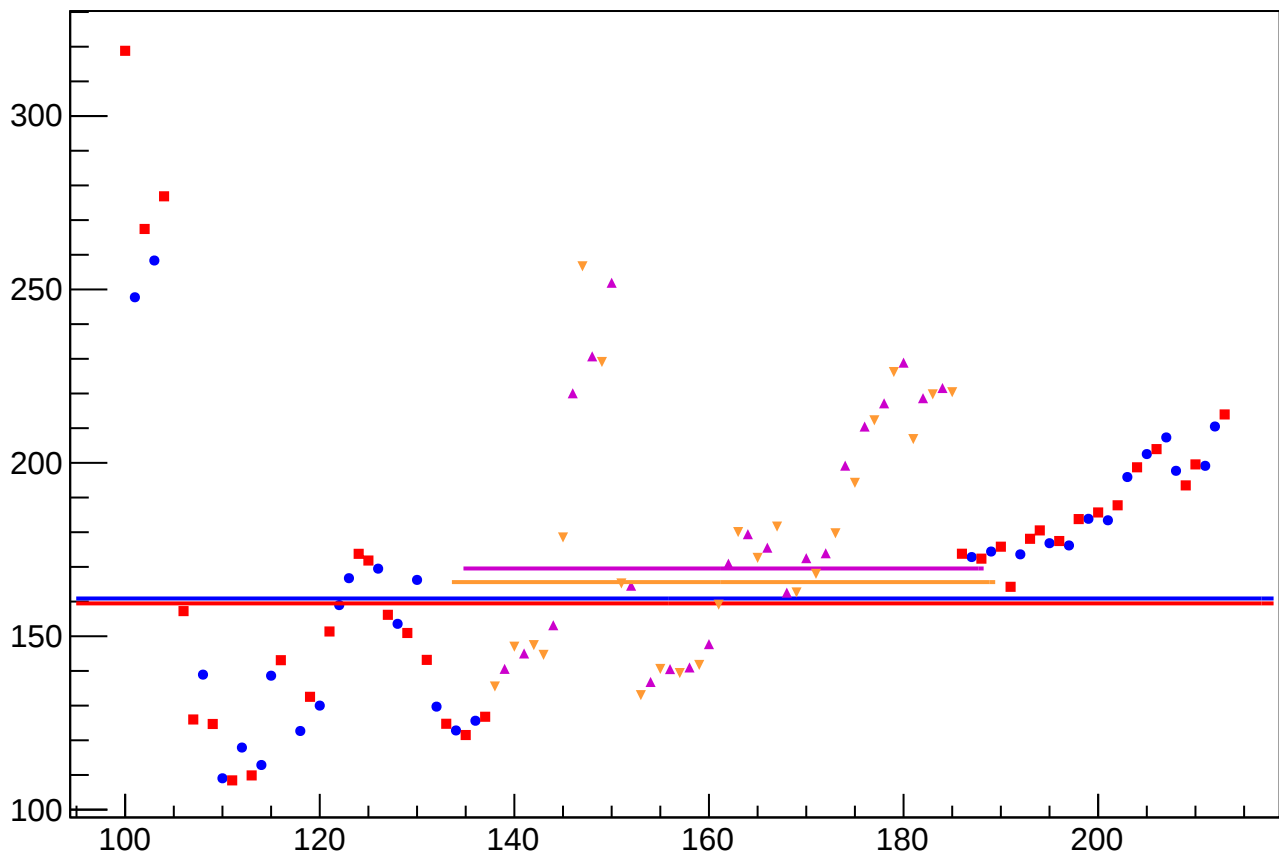
Left In: 7947.160+/-41.726 χ^2/NDF : 23874.5/22

+ sign 1320.731+/-28.658 χ^2/NDF : 133714.7/54

All: 953.610+/-20.291 χ^2/NDF : 317003.5/111

- sign 584.511+/-28.735 χ^2/NDF : 182959.7/56

asym_bpm0i01WS_rms vs Slug



Right In: 160.891+/-0.029 χ^2/NDF : 1457196.4/29

Left Out: 165.616+/-0.028 χ^2/NDF : 1144779.3/24

Right Out: 159.475+/-0.028 χ^2/NDF : 1603636.1/33

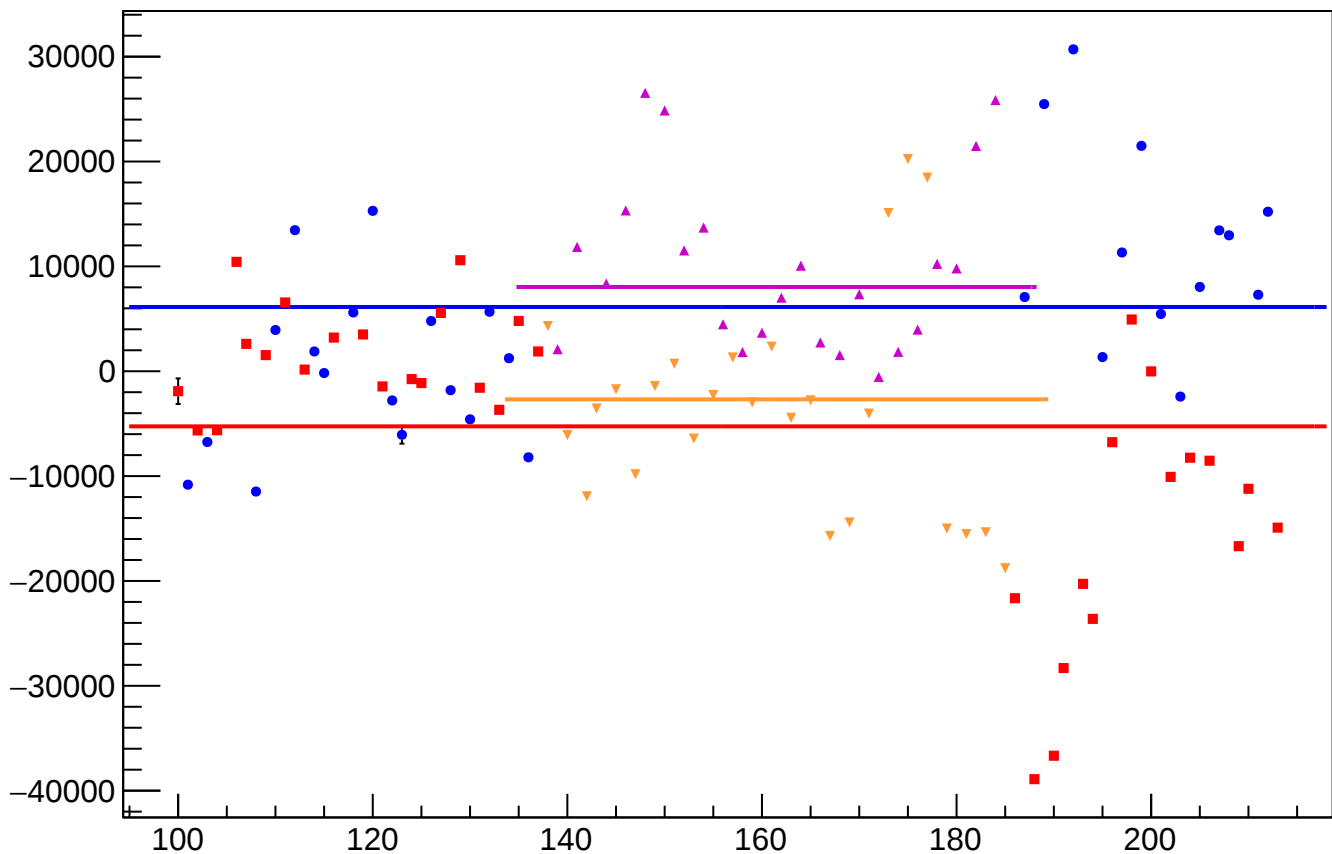
Left In: 169.542+/-0.030 χ^2/NDF : 1159241.9/22

+ sign 163.380+/-0.020 χ^2/NDF : 2615531.2/54

All: 163.814+/-0.014 χ^2/NDF : 5440530.3/111

- sign 164.249+/-0.020 χ^2/NDF : 2824083.1/56

asym_bpm0i01aWS_mean vs Slug



Right In: 6126.087+/-35.250 χ^2/NDF : 88921.2/29

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: -5257.217+/-33.338 χ^2/NDF : 139706.5/33

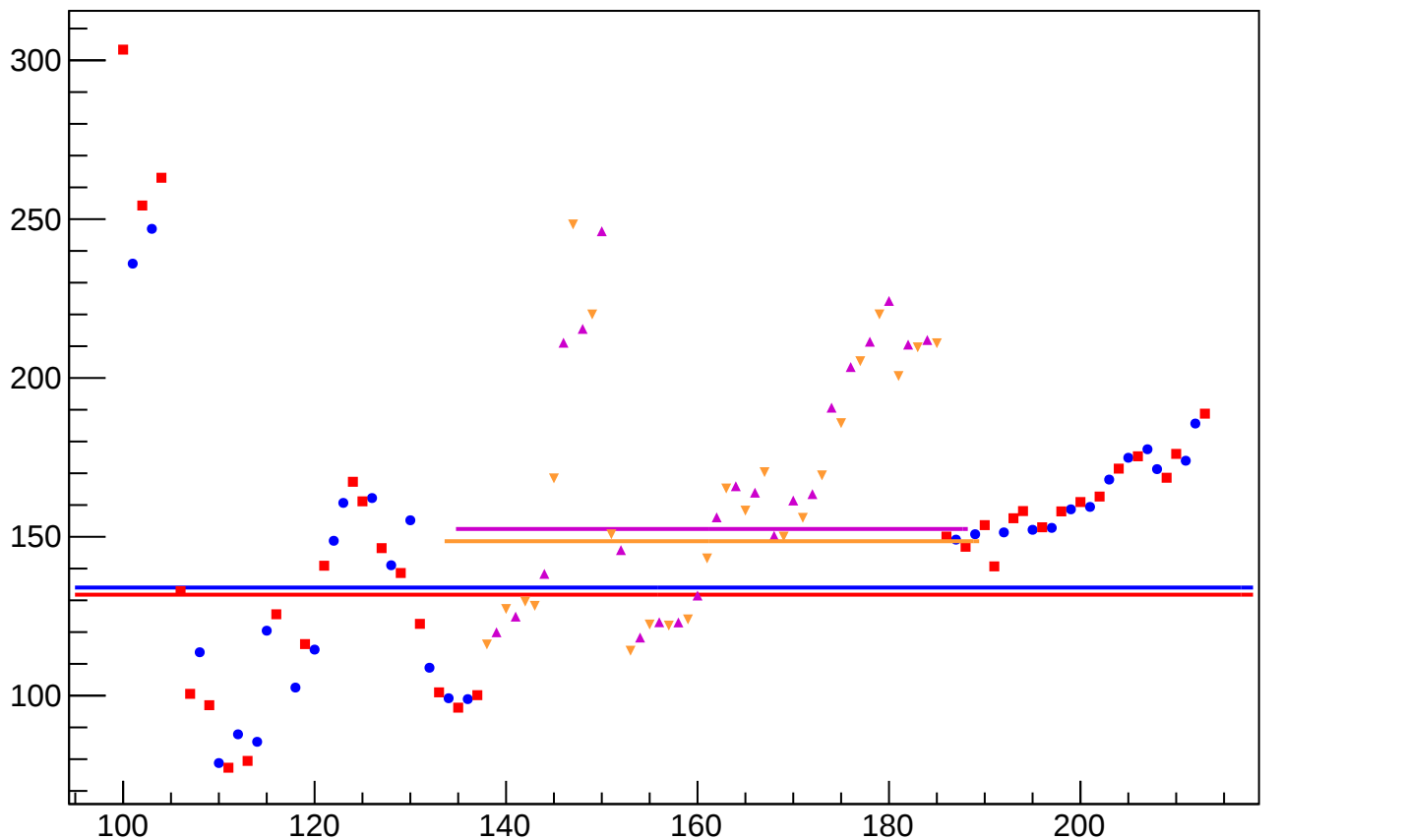
Left In: 8036.826+/-37.924 χ^2/NDF : 29261.6/22

+ sign 1786.781+/-25.105 χ^2/NDF : 176495.3/54

All: 1160.623+/-17.728 χ^2/NDF : 416019.3/11

- sign 537.755+/-25.039 χ^2/NDF : 238283.1/56

asym_bpm0i01aWS_rms vs Slug



Right In: 134.027 $\pm$ 0.025 χ^2/NDF : 2227287.5/29

Left Out: 148.611 $\pm$ 0.025 χ^2/NDF : 1685424.1/24

Right Out: 131.780 $\pm$ 0.024 χ^2/NDF : 2552244.7/33

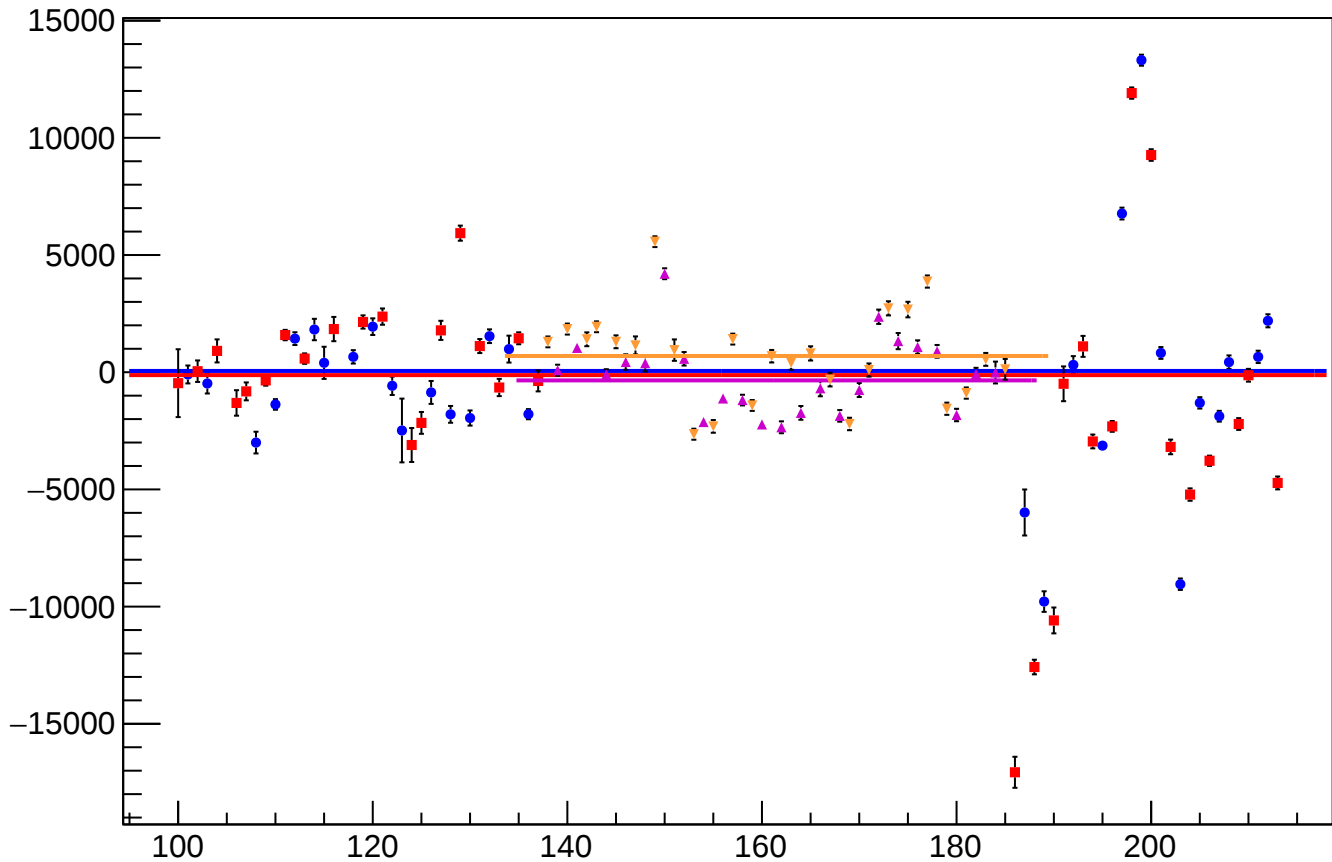
Left In: 152.463 $\pm$ 0.027 χ^2/NDF : 1691517.7/22

+ sign 141.213 $\pm$ 0.018 χ^2/NDF : 4081413.2/54

All: 141.004 $\pm$ 0.013 χ^2/NDF : 8661030.4/111

- sign 140.796 $\pm$ 0.018 χ^2/NDF : 4579340.4/56

asym_bpm0l01WS_mean vs Slug



Right In: 54.327 ± 56.008 χ^2/NDF : 6556.6/29

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: -123.535 ± 54.199 χ^2/NDF : 8508.3/33

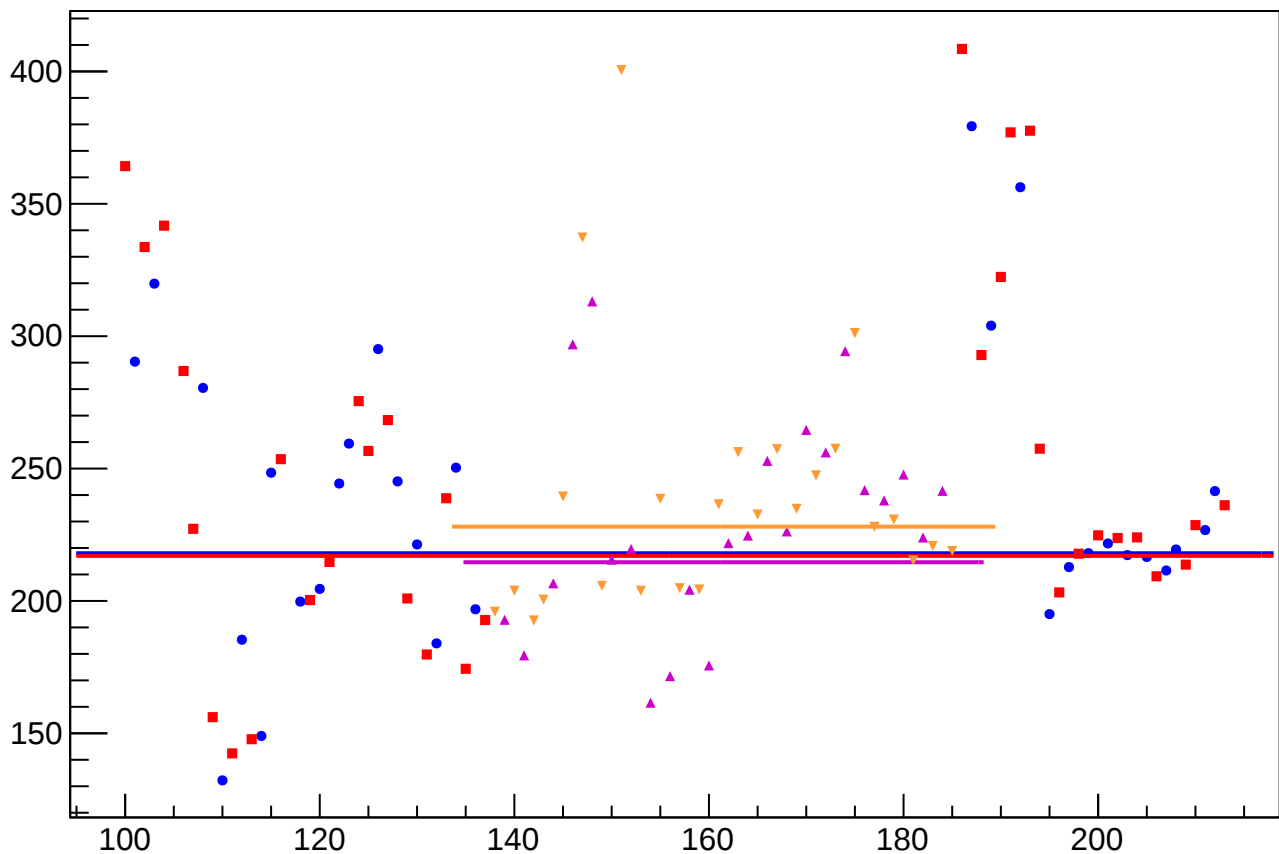
Left In: -349.623 ± 53.094 χ^2/NDF : 981.0/22

+ sign 383.530 ± 38.987 χ^2/NDF : 8045.6/54

All: 63.740 ± 27.186 χ^2/NDF : 17674.7/111

- sign -238.907 ± 37.928 χ^2/NDF : 9498.1/56

asym_bpm0l01WS_rms vs Slug



Right In: 218.008 $\pm$ 0.040 χ^2 /NDF: 1168608.3/29

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 217.026 $\pm$ 0.038 χ^2 /NDF: 1837116.6/33

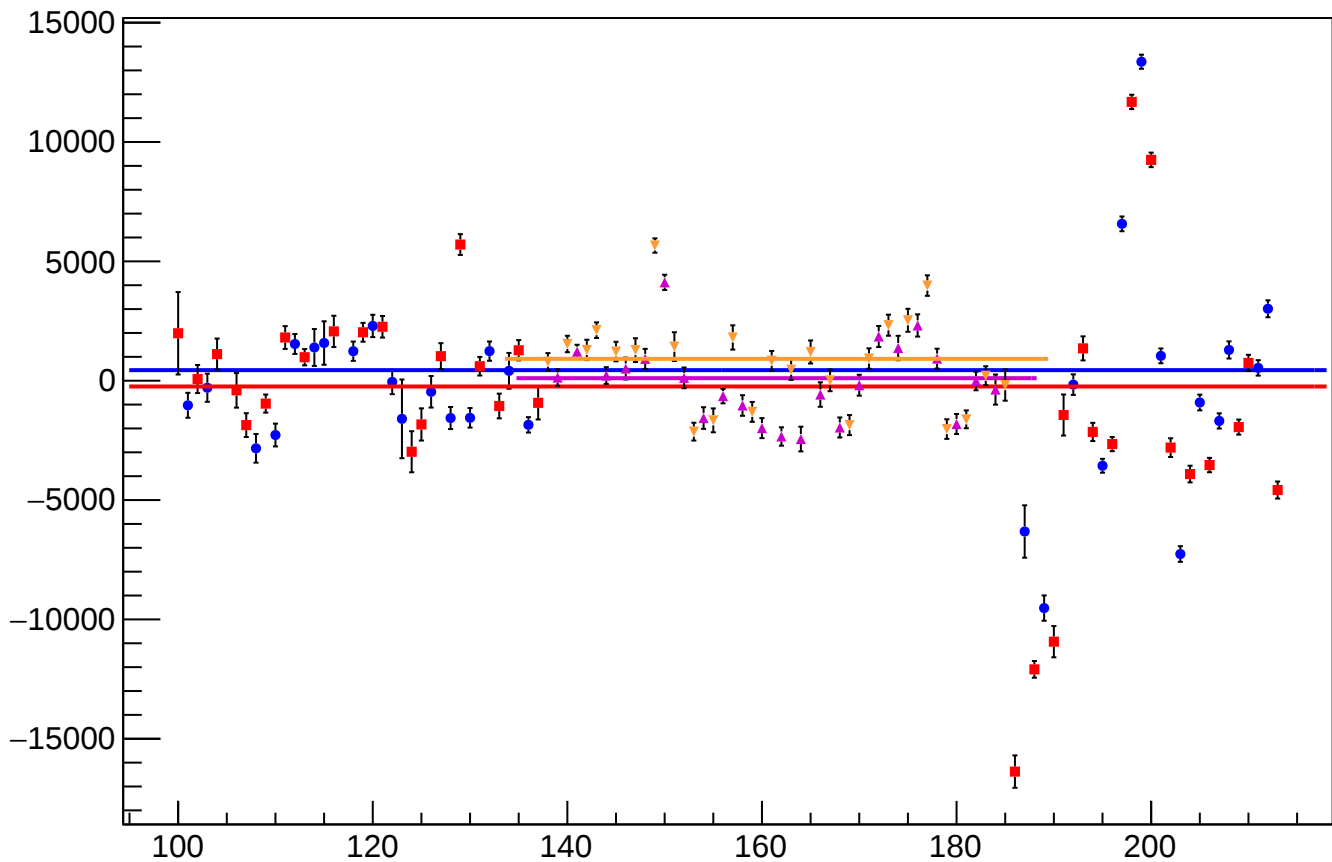
Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

+ sign 223.190 $\pm$ 0.028 χ^2 /NDF: 2028162.2/54

All: 219.394 $\pm$ 0.019 χ^2 /NDF: 4929860.4/111

- sign 215.802 $\pm$ 0.027 χ^2 /NDF: 2864799.7/56

asym_bpm0l02WS_mean vs Slug



Right In: 442.687 ± 75.549 χ^2/NDF : 3760.4/29

Left Out: 915.968 ± 83.398 χ^2/NDF : 618.3/24

Right Out: -241.641 ± 73.442 χ^2/NDF : 5444.1/33

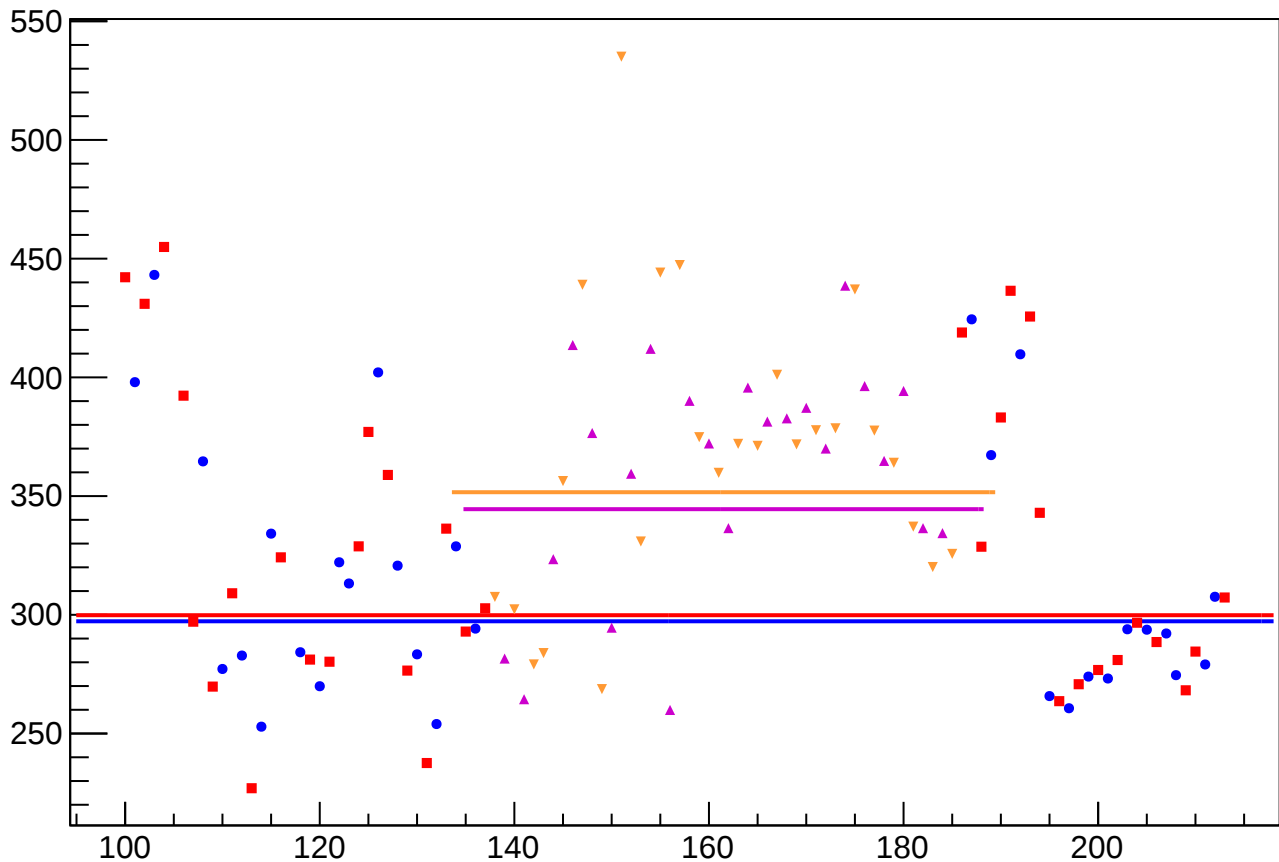
Left In: 106.116 ± 84.393 χ^2/NDF : 390.3/22

+ sign 656.014 ± 55.991 χ^2/NDF : 4396.4/54

All: 278.160 ± 39.382 χ^2/NDF : 10330.6/111

- sign -91.775 ± 55.401 χ^2/NDF : 5844.1/56

asym_bpm0l02WS_rms vs Slug



Right In: 297.274+/-0.053 χ^2/NDF : 626839.3/29

Left Out: 351.633+/-0.059 χ^2/NDF : 907849.3/24

Right Out: 299.829+/-0.052 χ^2/NDF : 894271.9/33

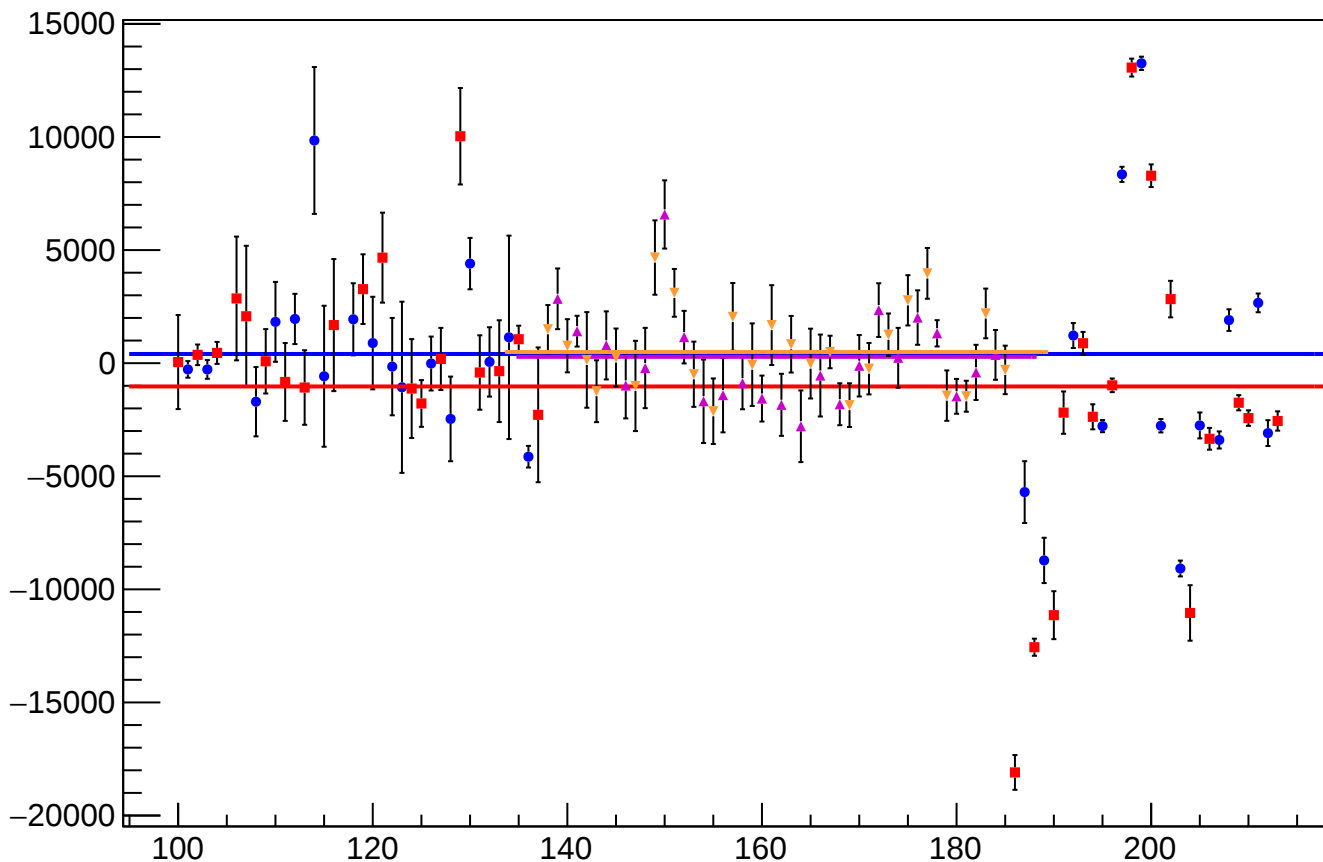
Left In: 344.491+/-0.060 χ^2/NDF : 768885.4/22

+ sign 321.776+/-0.040 χ^2/NDF : 2001389.5/54

All: 320.412+/-0.028 χ^2/NDF : 3985630.6/111

- sign 319.076+/-0.039 χ^2/NDF : 1981892.3/56

asym_bpm0l03WS_mean vs Slug



Right In: 406.416 $\pm$ 97.814 χ^2 /NDF: 3900.8/29

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF:56.2/24

Right Out: -1029.800 $\pm$ 108.141 χ^2 /NDF: 3373.8/33

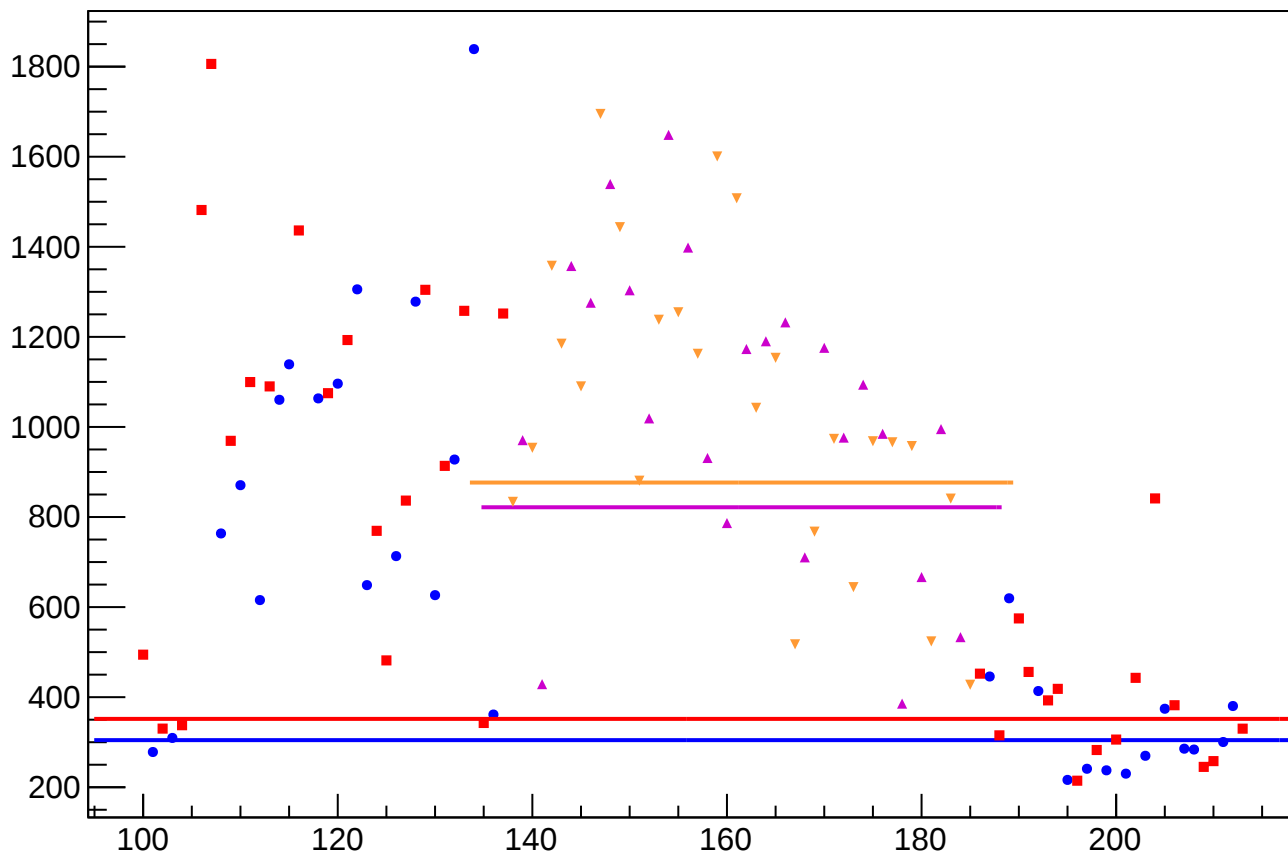
Left In: 280.692 $\pm$ 232.048 χ^2 /NDF:57.2/22

+ sign 419.881 $\pm$ 90.075 χ^2 /NDF: 3957.2/54

All: -136.784 $\pm$ 66.324 χ^2 /NDF: 7497.8/111

- sign -795.969 $\pm$ 98.019 χ^2 /NDF: 3457.2/56

asym_bpm0l03WS_rms vs Slug



Right In: 304.608+/-0.069 χ^2/NDF : 4442477.4/29

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 351.784+/-0.076 χ^2/NDF : 5922820.5/33

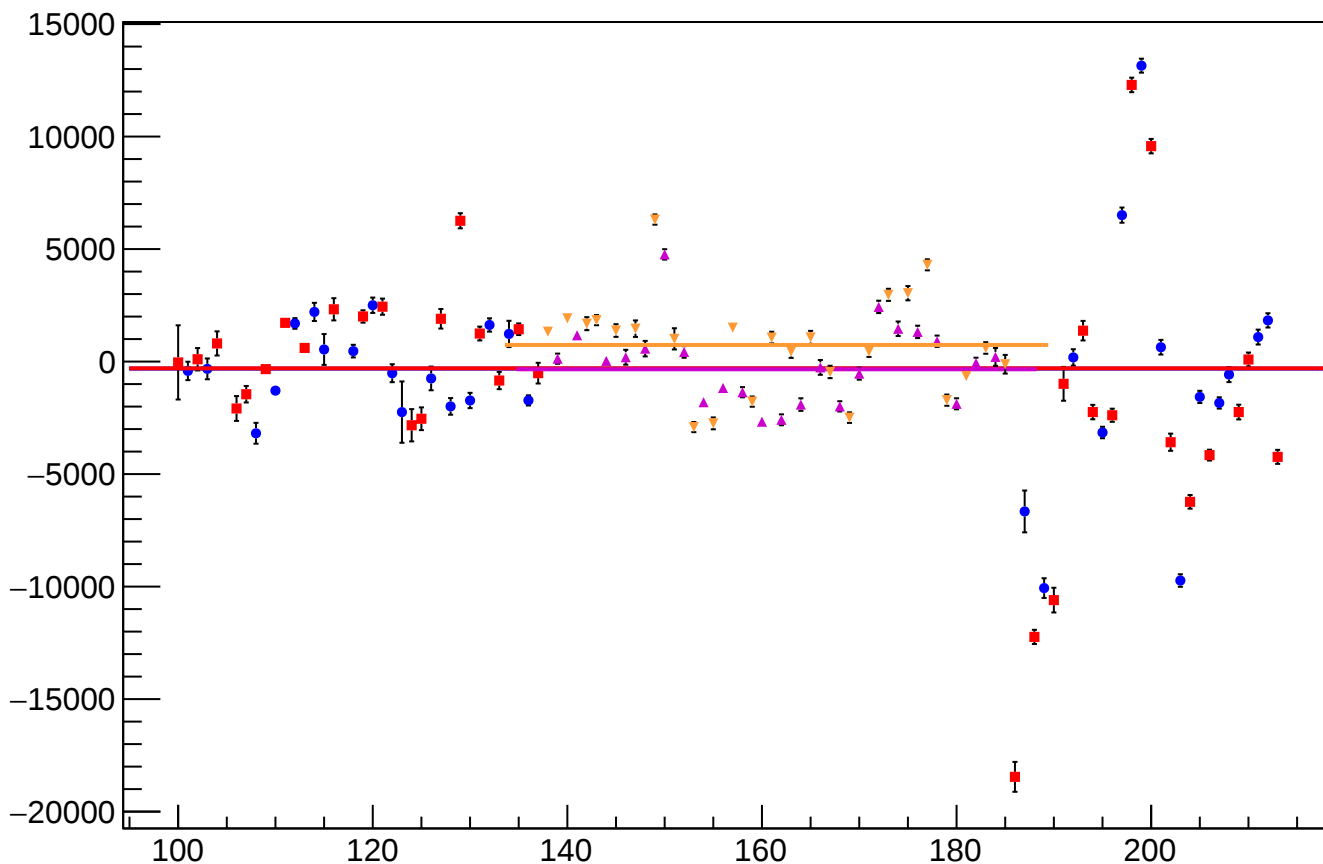
Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

+ sign 391.529+/-0.064 χ^2/NDF : 18269588.1/54

All: 411.717+/-0.047 χ^2/NDF : 35592184.9/13

- sign 435.623+/-0.069 χ^2/NDF : 17103168.4/56

asym_bpm0l04WS_mean vs Slug



Right In: -313.158 ± 60.307 $\chi^2/\text{NDF}: 4613.5/29$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: -299.949 ± 57.189 $\chi^2/\text{NDF}: 6832.6/33$

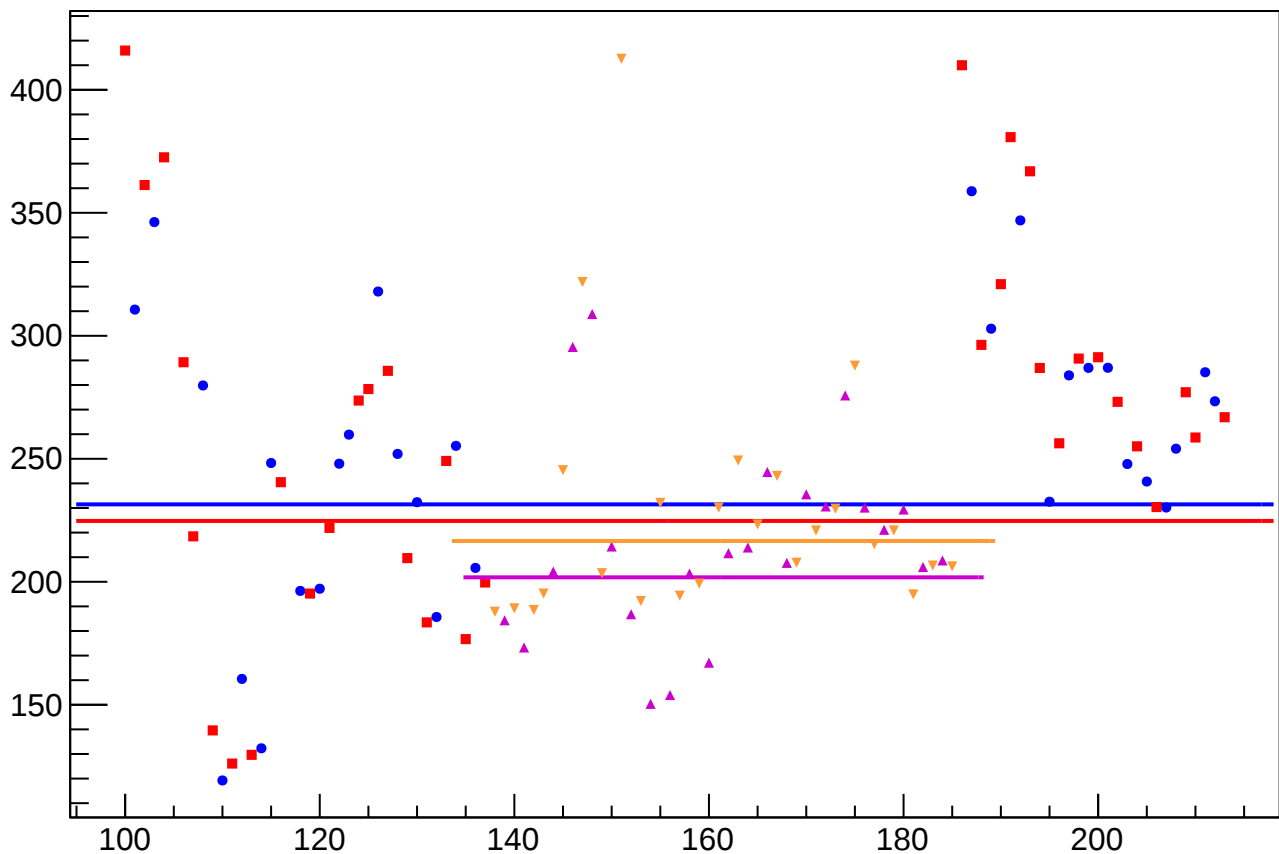
Left In: -342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

+ sign 293.714 ± 39.228 $\chi^2/\text{NDF}: 6724.2/54$

All: -27.745 ± 27.168 $\chi^2/\text{NDF}: 14941.1/111$

- sign -324.027 ± 37.661 $\chi^2/\text{NDF}: 8087.8/56$

asym_bpm0l04WS_rms vs Slug



Right In: 231.472 ± 0.043 $\chi^2/\text{NDF}: 1881848.6/29$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 224.744 ± 0.040 $\chi^2/\text{NDF}: 2959645.6/33$

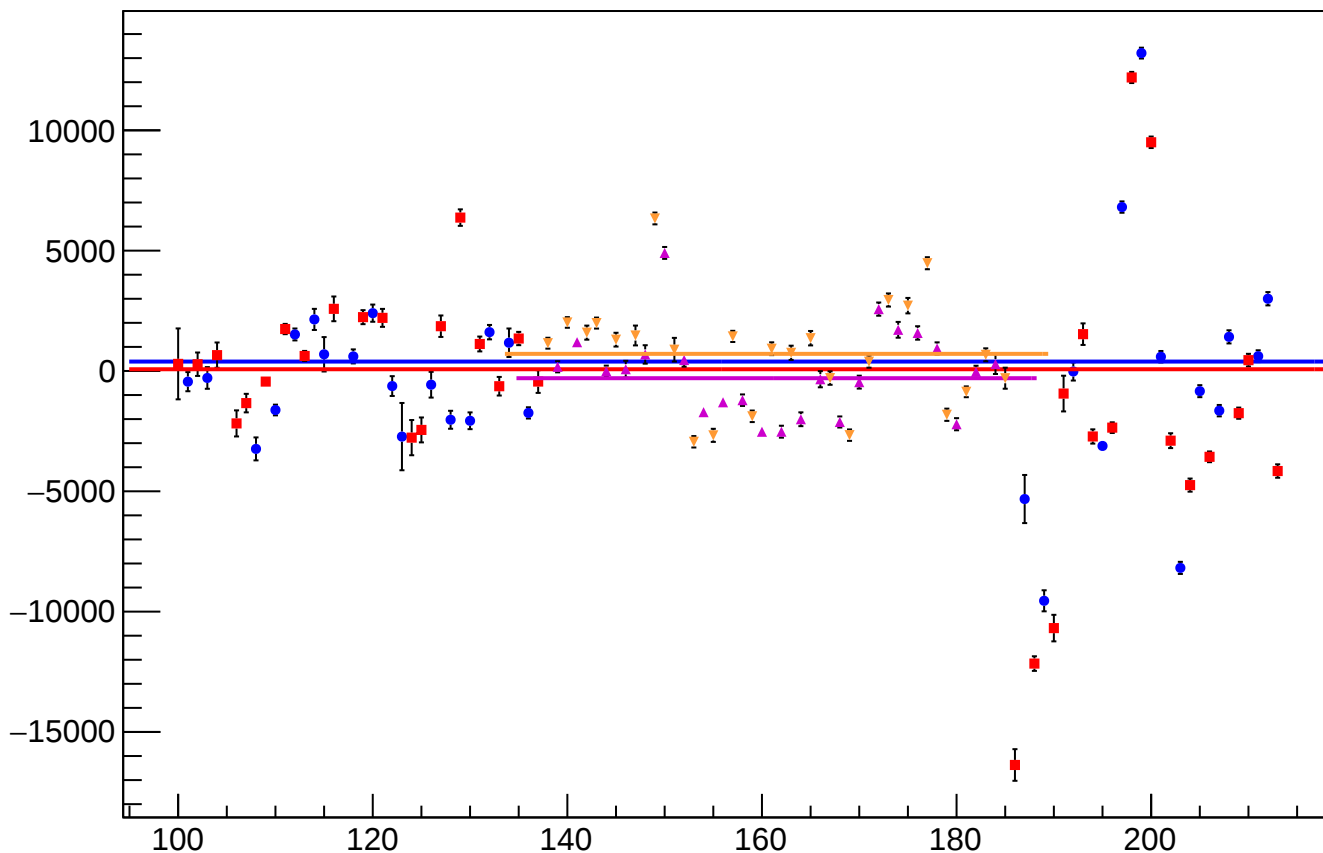
Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

+ sign 222.878 ± 0.028 $\chi^2/\text{NDF}: 2838471.6/54$

All: 217.089 ± 0.019 $\chi^2/\text{NDF}: 7151291.4/111$

- sign 211.753 ± 0.027 $\chi^2/\text{NDF}: 4229122.2/56$

asym_bpm0l05WS_mean vs Slug



Right In: 390.750 ± 55.877 χ^2/NDF : 6583.6/29

Left Out: 711.174 ± 53.245 χ^2/NDF : 1835.3/24

Right Out: 71.631 ± 53.929 χ^2/NDF : 8769.0/33

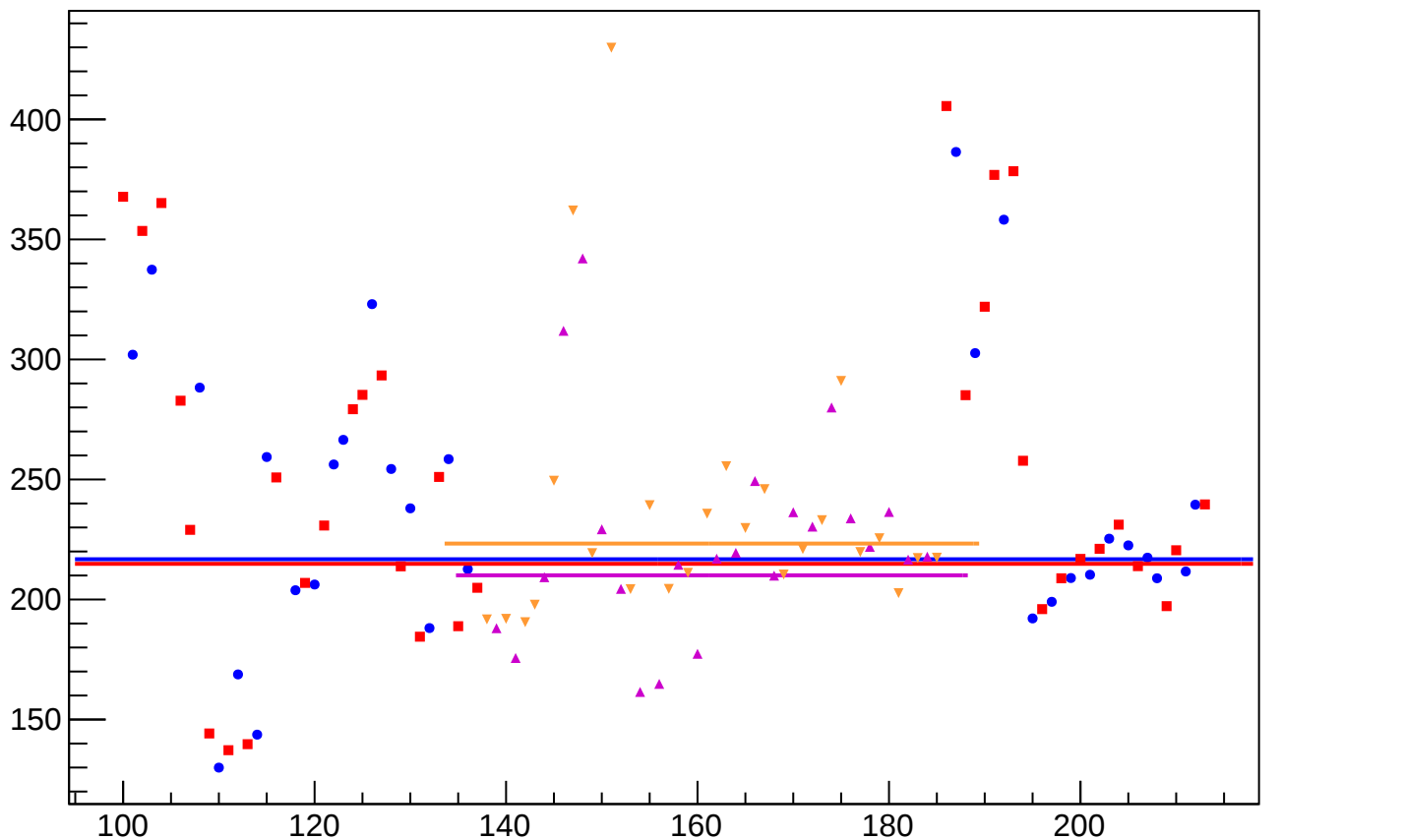
Left In: -300.516 ± 51.984 χ^2/NDF : 1208.6/22

+ sign 558.687 ± 38.547 χ^2/NDF : 8436.2/54

All: 208.685 ± 26.852 χ^2/NDF : 18598.6/111

- sign -121.274 ± 37.427 χ^2/NDF : 10002.2/56

asym_bpm0l05WS_rms vs Slug



Right In: 216.770+/-0.040 χ^2/NDF : 1361574.4/29

Left Out: 223.296+/-0.038 χ^2/NDF : 922768.4/24

Right Out: 214.858+/-0.038 χ^2/NDF : 2121744.5/33

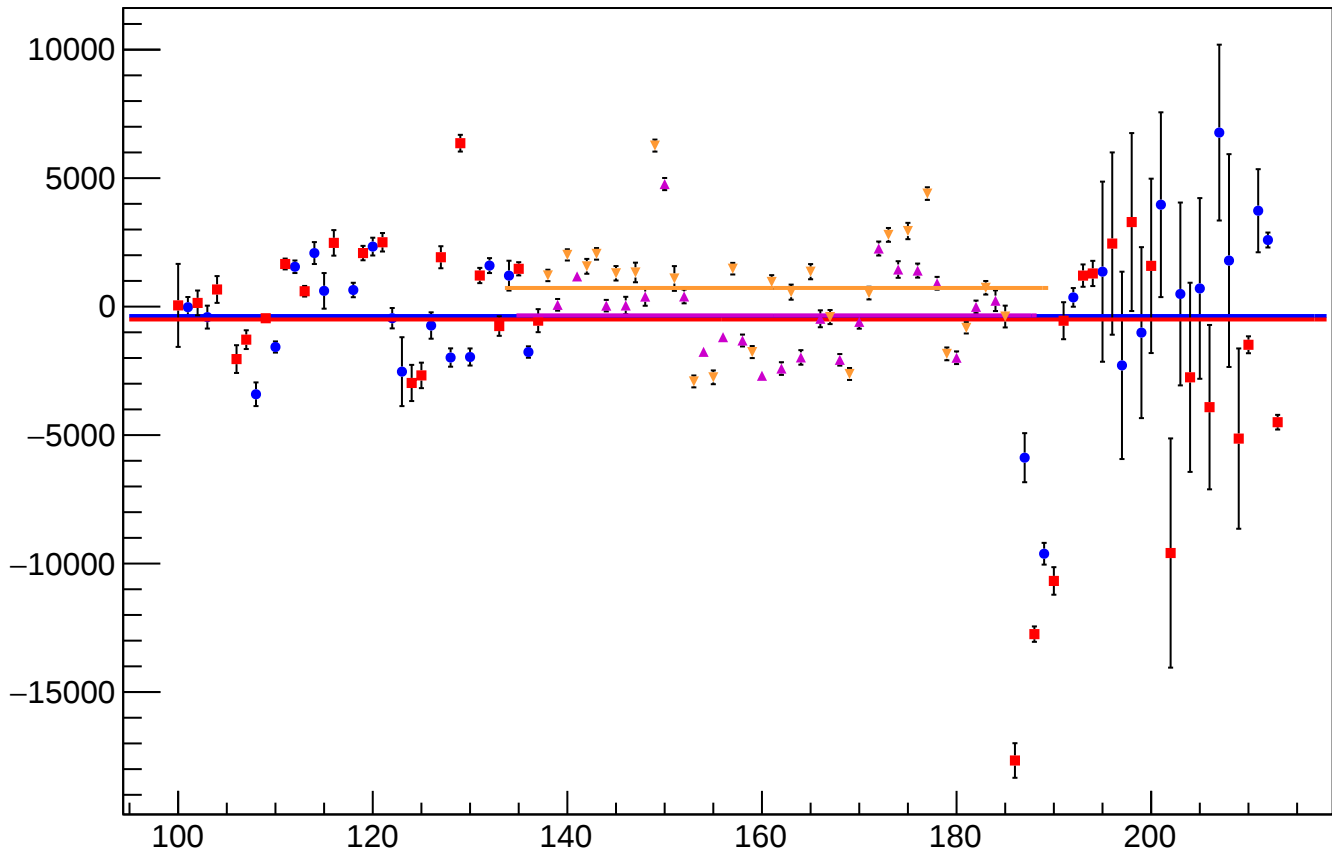
Left In: 210.080+/-0.037 χ^2/NDF : 1015274.5/22

+ sign 220.191+/-0.027 χ^2/NDF : 2298642.1/54

All: 216.171+/-0.019 χ^2/NDF : 5486053.0/111

- sign 212.381+/-0.026 χ^2/NDF : 3145156.2/56

asym_bpm0l06WS_mean vs Slug



Right In: -366.827 ± 76.191 $\chi^2/\text{NDF}: 1017.2/29$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: -500.897 ± 66.560 $\chi^2/\text{NDF}: 3862.5/33$

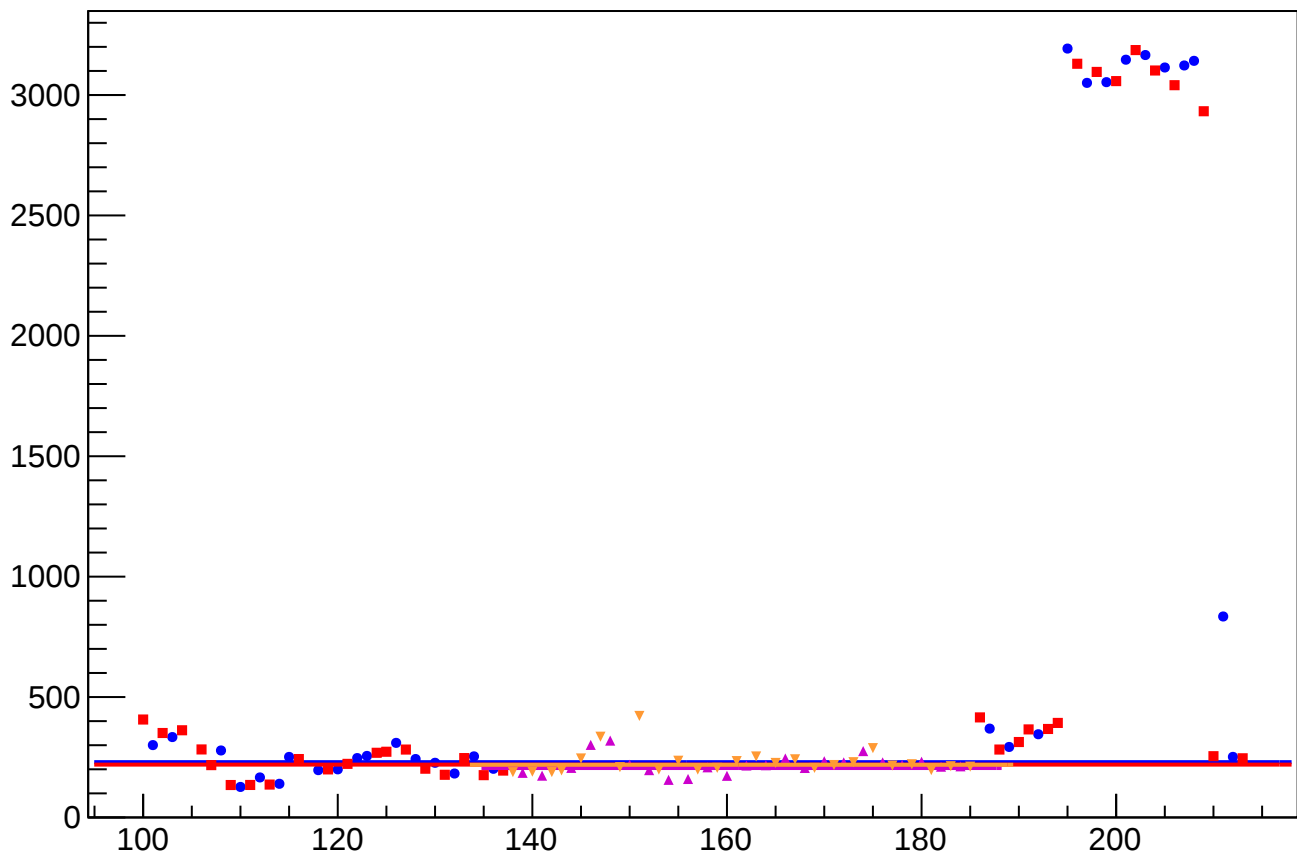
Left In: -340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

+ sign 377.191 ± 43.039 $\chi^2/\text{NDF}: 3070.0/54$

All: -35.880 ± 29.450 $\chi^2/\text{NDF}: 8311.3/111$

- sign -399.545 ± 40.384 $\chi^2/\text{NDF}: 5068.0/56$

asym_bpm0l06WS_rms vs Slug



Right In: 229.629 $\pm$ 0.054 χ^2 /NDF: 12147002.1/29

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF:896914.5/24

Right Out: 219.455 $\pm$ 0.047 χ^2 /NDF: 11495508.0/33

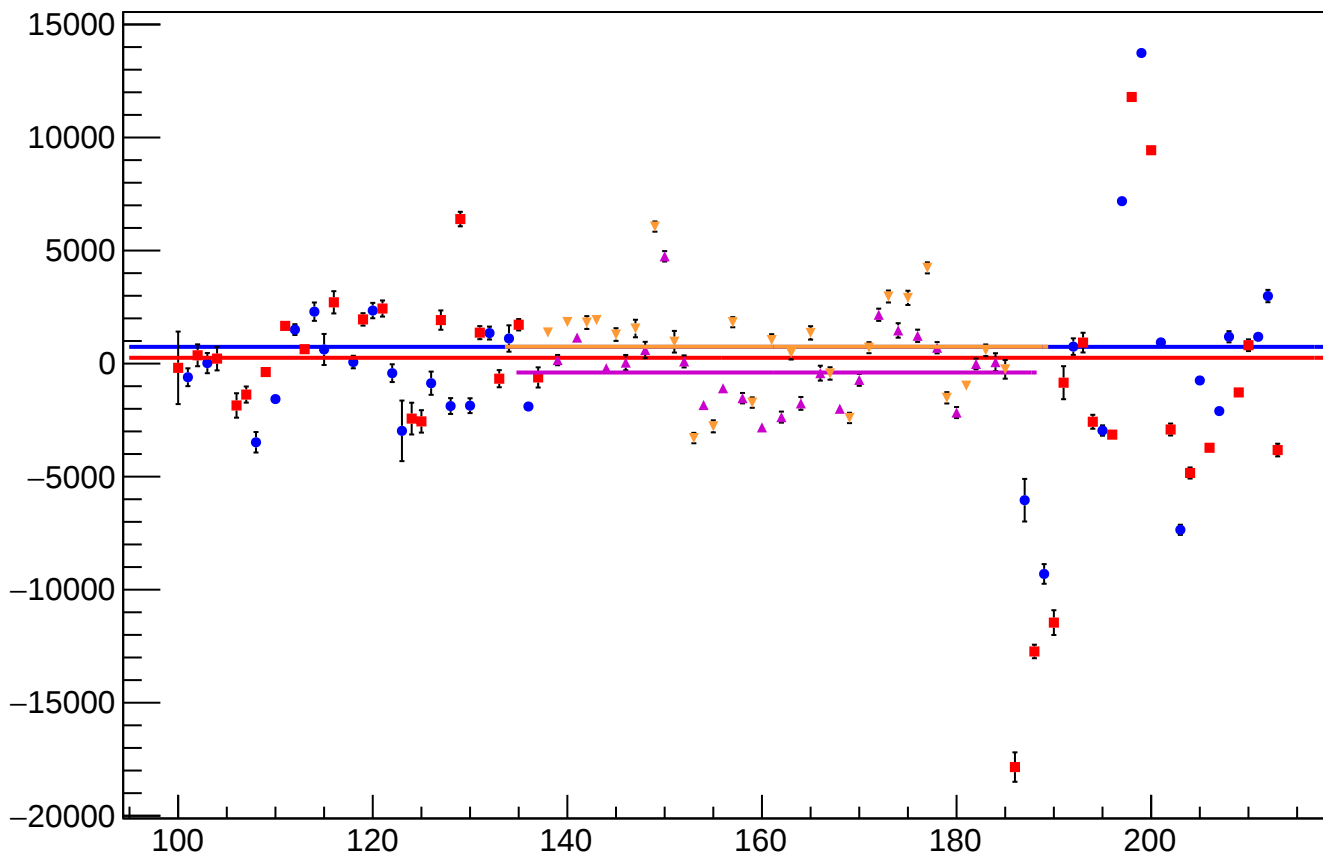
Left In: 205.249 $\pm$ 0.036 χ^2 /NDF:997168.8/22

+ sign 222.234 $\pm$ 0.030 χ^2 /NDF: 13071584.9/54

All: 215.982 $\pm$ 0.021 χ^2 /NDF: 25701178.1/11

- sign 210.478 $\pm$ 0.029 χ^2 /NDF: 12550246.2/56

asym_bpm0l07WS_mean vs Slug



Right In: 740.003 $\pm$ 51.984 χ^2 /NDF: 8529.2/29

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: 256.584 $\pm$ 50.480 χ^2 /NDF: 10591.2/33

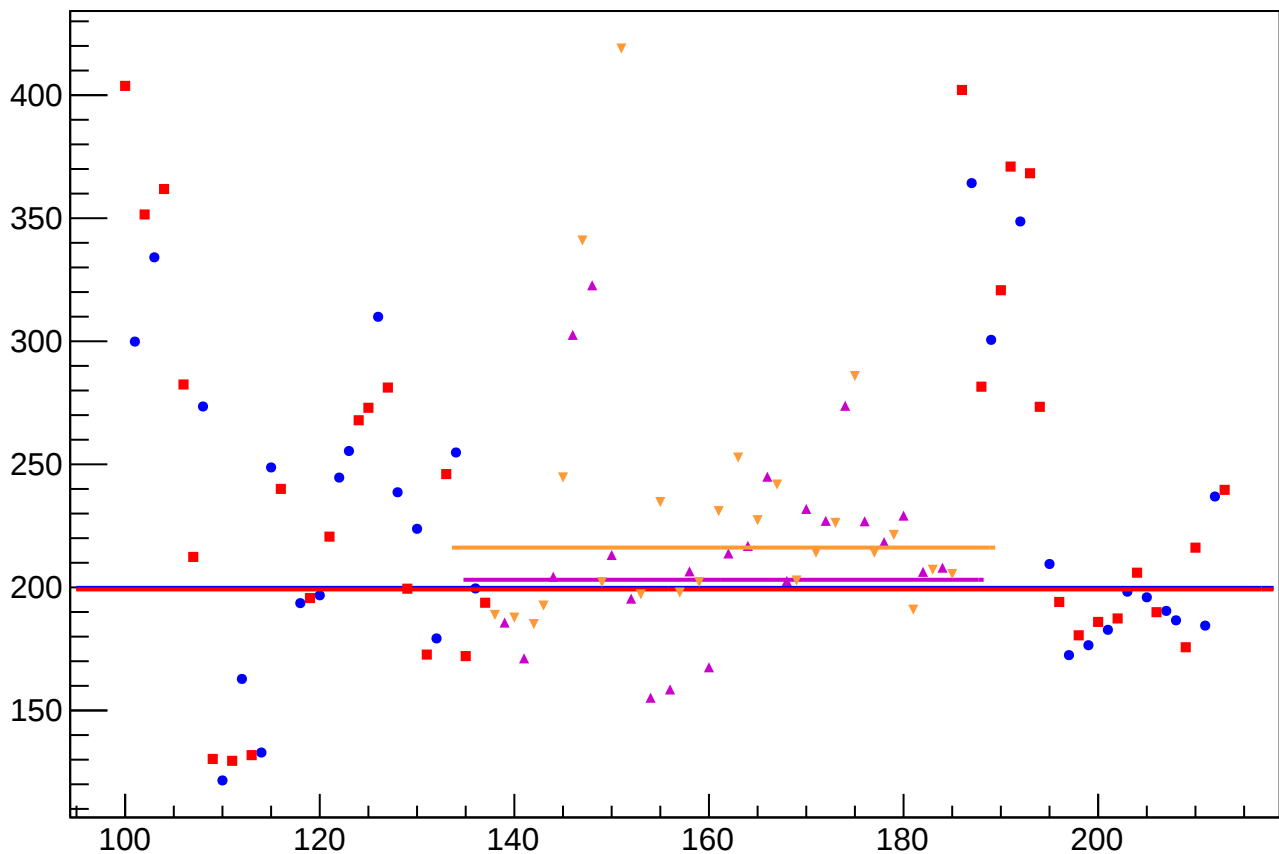
Left In: -394.379 $\pm$ 50.311 χ^2 /NDF:1236.4/22

+ sign 743.228 $\pm$ 36.619 χ^2 /NDF: 10471.3/54

All: 325.551 $\pm$ 25.538 χ^2 /NDF: 22635.7/111

- sign -69.987 $\pm$ 35.635 χ^2 /NDF: 11911.0/56

asym_bpm0l07WS_rms vs Slug



Right In: 199.808 $\pm$ 0.037 χ^2 /NDF: 1576584.3/29

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 199.168 $\pm$ 0.036 χ^2 /NDF: 2517916.1/33

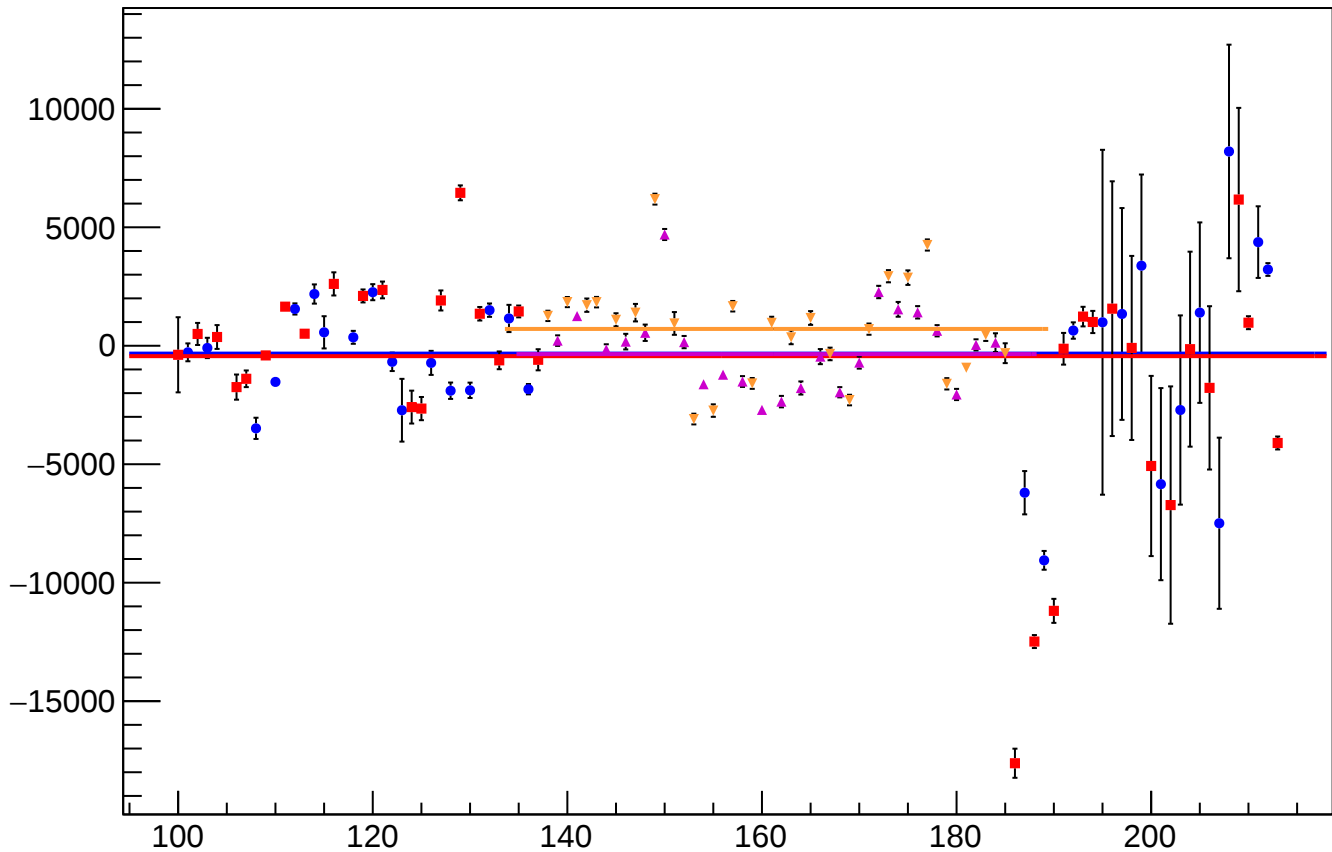
Left In: 203.101 $\pm$ 0.036 χ^2 /NDF: 1038013.0/22

+ sign 208.055 $\pm$ 0.026 χ^2 /NDF: 2622552.7/54

All: 204.504 $\pm$ 0.018 χ^2 /NDF: 6221188.2/111

- sign 201.141 $\pm$ 0.025 χ^2 /NDF: 3562018.5/56

asym_bpm0l08WS_mean vs Slug



Right In: -331.260 ± 73.421 χ^2/NDF : 1124.8/29

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: -439.254 ± 63.402 χ^2/NDF : 4377.7/33

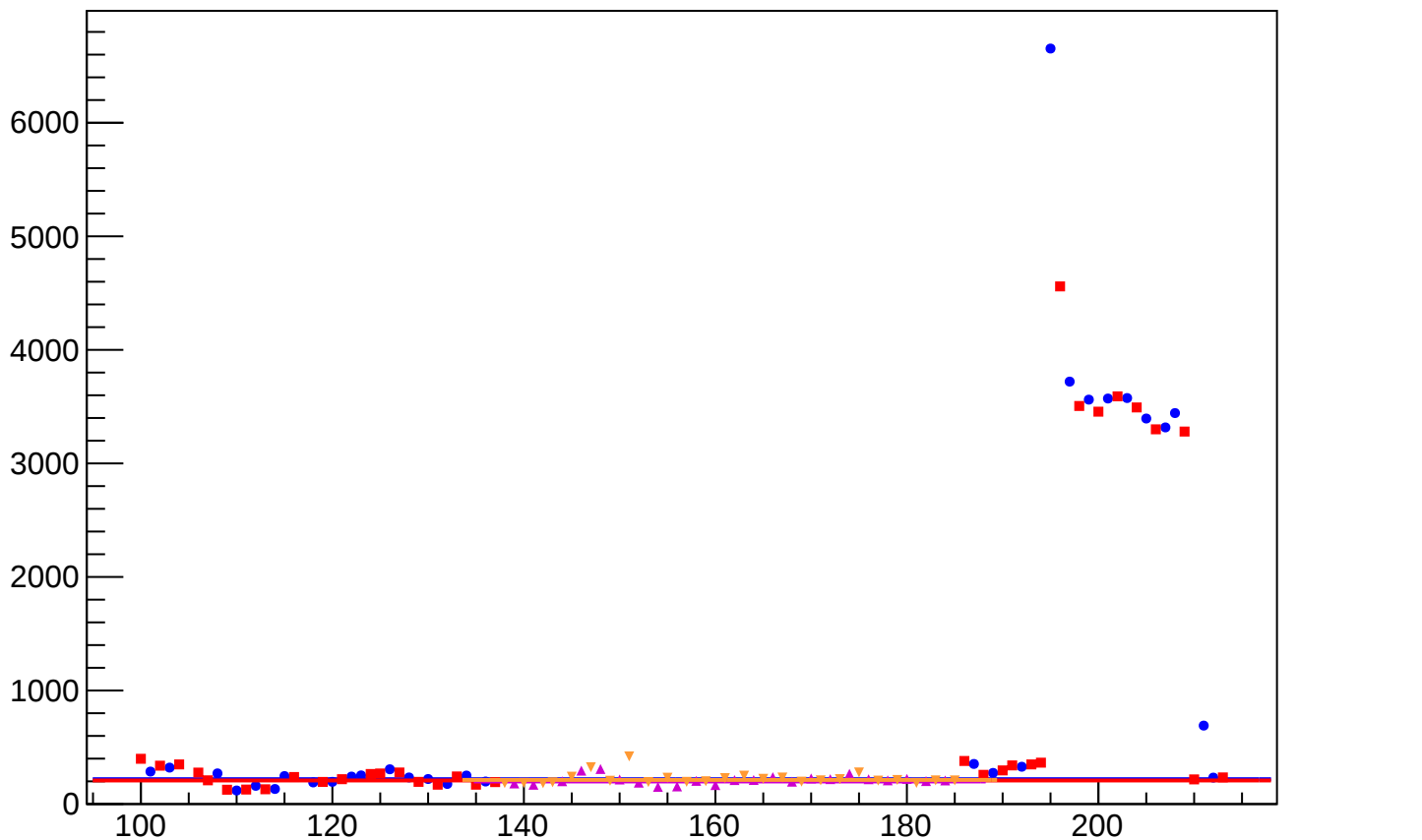
Left In: -352.432 ± 49.316 χ^2/NDF : 1233.1/22

+ sign 373.507 ± 41.748 χ^2/NDF : 3193.3/54

All: -32.324 ± 28.470 χ^2/NDF : 8981.9/111

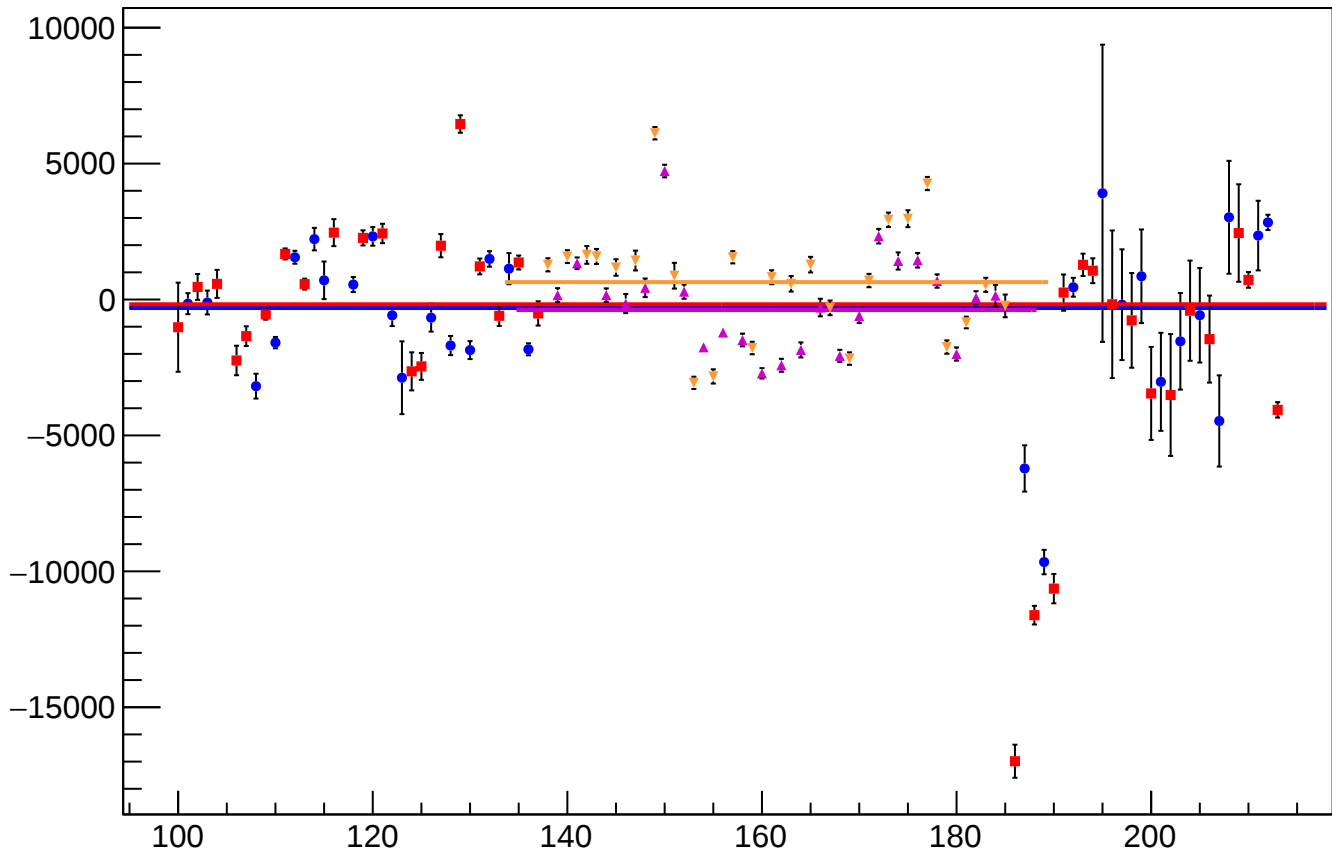
- sign -385.160 ± 38.927 χ^2/NDF : 5612.0/56

asym_bpm0l08WS_rms vs Slug



Right In: 219.008 $\pm$ 0.052 χ^2 /NDF: 12506286.2/29 + sign 214.752 $\pm$ 0.030 χ^2 /NDF: 13432445.3/54
 Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24 All: 208.171 $\pm$ 0.020 χ^2 /NDF: 26265302.0/1
 Right Out: 207.918 $\pm$ 0.045 χ^2 /NDF: 11730153.1/33 - sign 202.450 $\pm$ 0.028 χ^2 /NDF: 12739957.9/56
 Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

asym_bpm0l09WS_mean vs Slug



Right In: -311.888 ± 74.484 $\chi^2/\text{NDF}: 1010.3/29$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: -174.953 ± 65.119 $\chi^2/\text{NDF}: 3309.4/33$

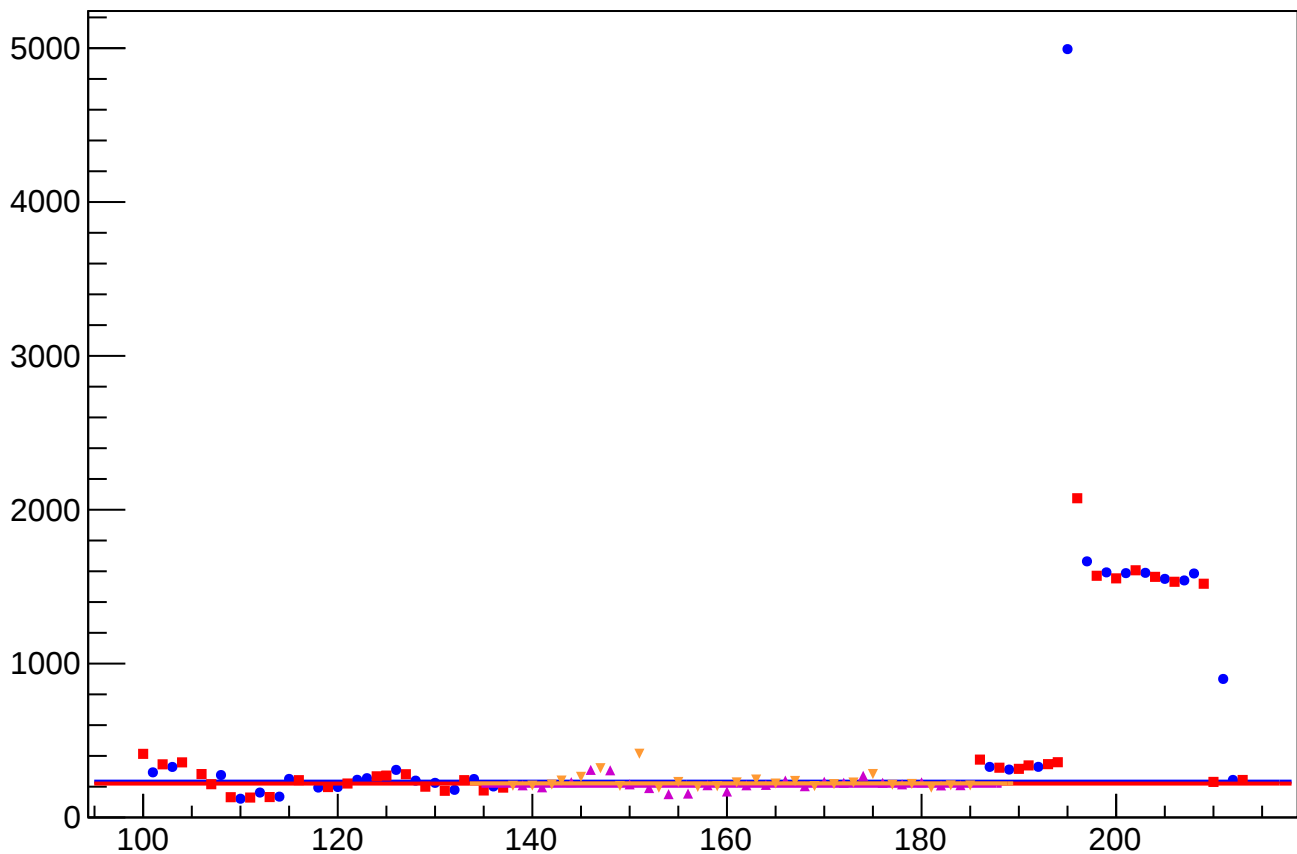
Left In: -386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

+ sign 322.375 ± 43.025 $\chi^2/\text{NDF}: 2978.3/54$

All: -13.483 ± 29.354 $\chi^2/\text{NDF}: 7646.3/111$

- sign -305.929 ± 40.148 $\chi^2/\text{NDF}: 4554.0/56$

asym_bpm0l09WS_rms vs Slug



Right In: 232.828 $\pm$ 0.053 χ^2 /NDF: 11279629.2/29

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 220.098 $\pm$ 0.046 χ^2 /NDF: 10175624.4/33

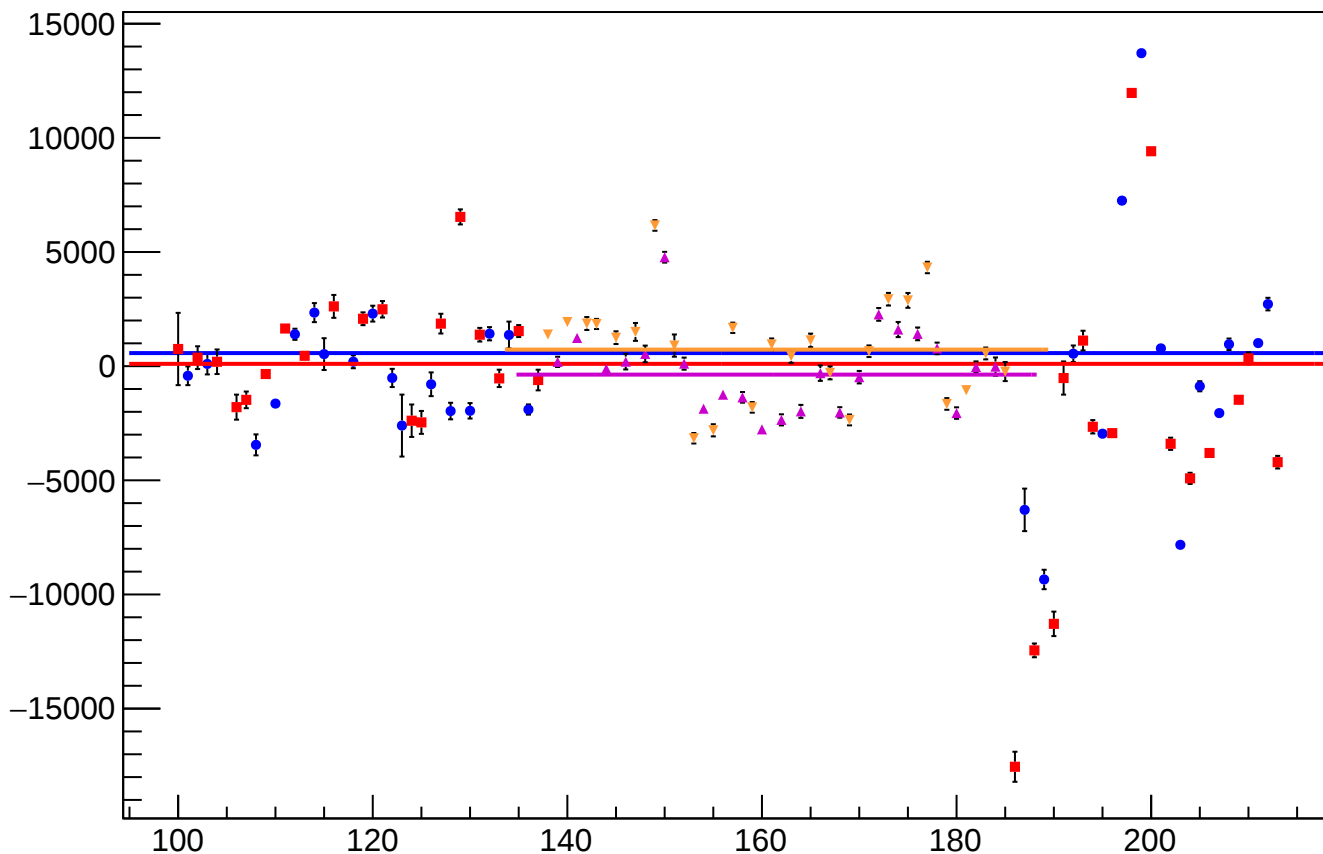
Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

+ sign 225.212 $\pm$ 0.030 χ^2 /NDF: 12088846.3/54

All: 217.742 $\pm$ 0.021 χ^2 /NDF: 23431906.1/11

- sign 211.237 $\pm$ 0.028 χ^2 /NDF: 11230272.5/56

asym_bpm0l10WS_mean vs Slug



Right In: 572.595 ± 52.507 $\chi^2/\text{NDF}: 8509.6/29$

Left Out: 725.250 ± 52.307 $\chi^2/\text{NDF}: 1883.1/24$

Right Out: 101.283 ± 51.220 $\chi^2/\text{NDF}: 10296.7/33$

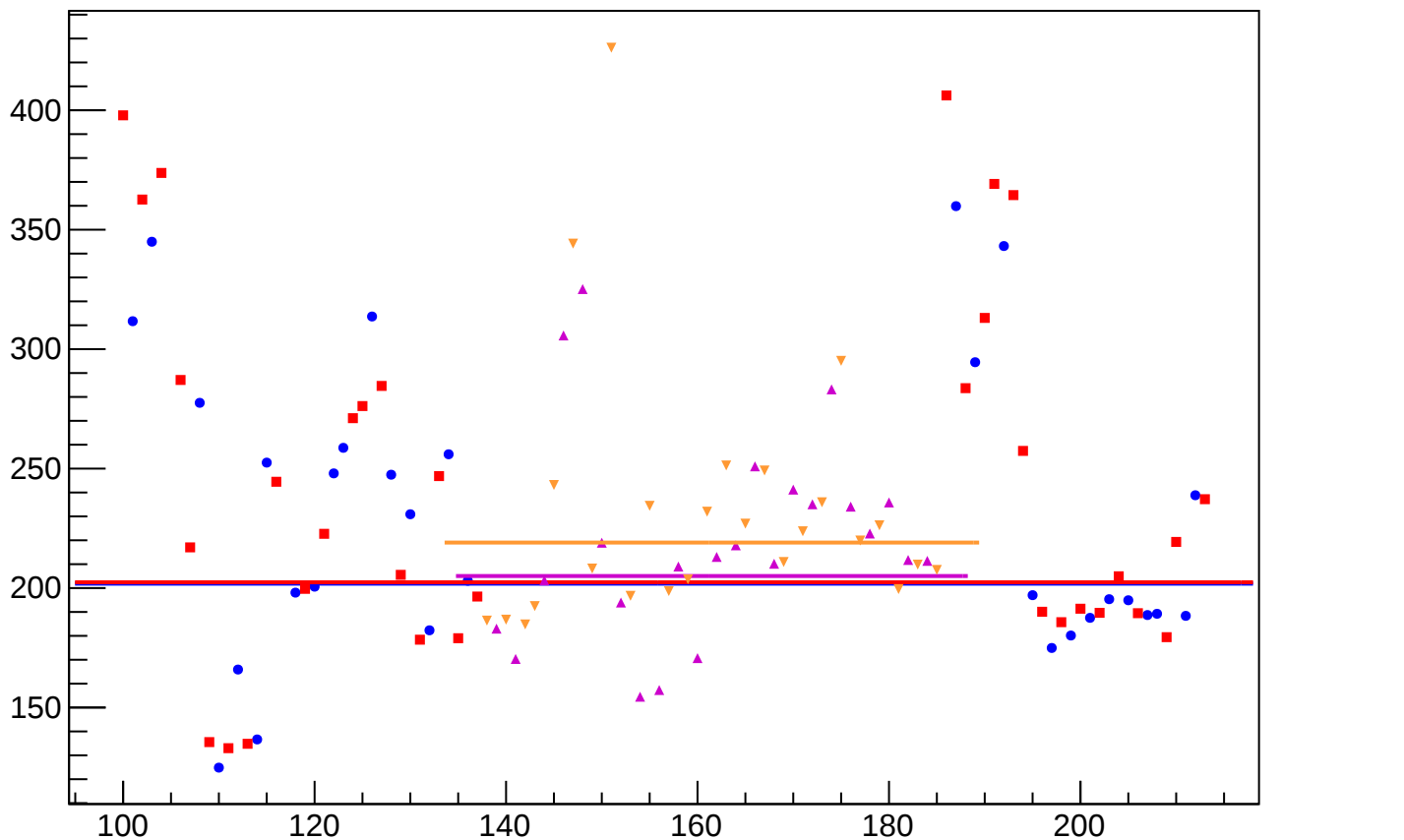
Left In: -370.408 ± 50.884 $\chi^2/\text{NDF}: 1223.2/22$

+ sign 649.213 ± 37.057 $\chi^2/\text{NDF}: 10397.0/54$

All: 246.265 ± 25.858 $\chi^2/\text{NDF}: 22189.9/111$

- sign -136.112 ± 36.099 $\chi^2/\text{NDF}: 11562.5/56$

asym_bpm0l10WS_rms vs Slug



Right In: 201.848 $\pm$ 0.037 χ^2 /NDF: 1531967.0/29

Left Out: 219.049 $\pm$ 0.037 χ^2 /NDF:975564.4/24

Right Out: 202.425 $\pm$ 0.036 χ^2 /NDF: 2358158.5/33

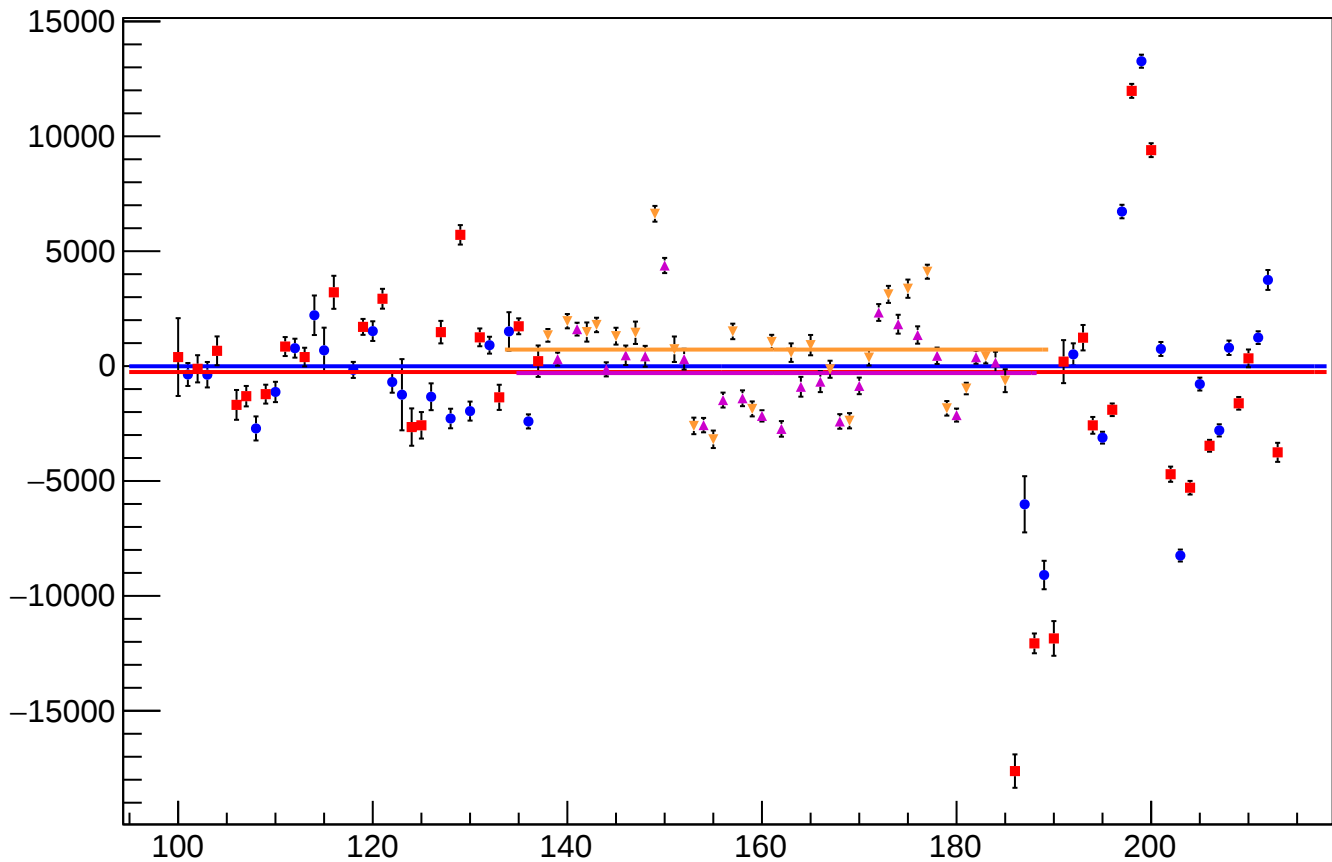
Left In: 205.046 $\pm$ 0.036 χ^2 /NDF:1144197.1/22

+ sign 210.481 $\pm$ 0.026 χ^2 /NDF: 2615253.1/54

All: 207.024 $\pm$ 0.018 χ^2 /NDF: 6154160.9/111

- sign 203.744 $\pm$ 0.026 χ^2 /NDF: 3504992.6/56

asym_bpm0r03WS_mean vs Slug



Right In: -7.556 ± 69.948 $\chi^2/\text{NDF}: 4502.3/29$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: -258.394 ± 70.965 $\chi^2/\text{NDF}: 5427.0/33$

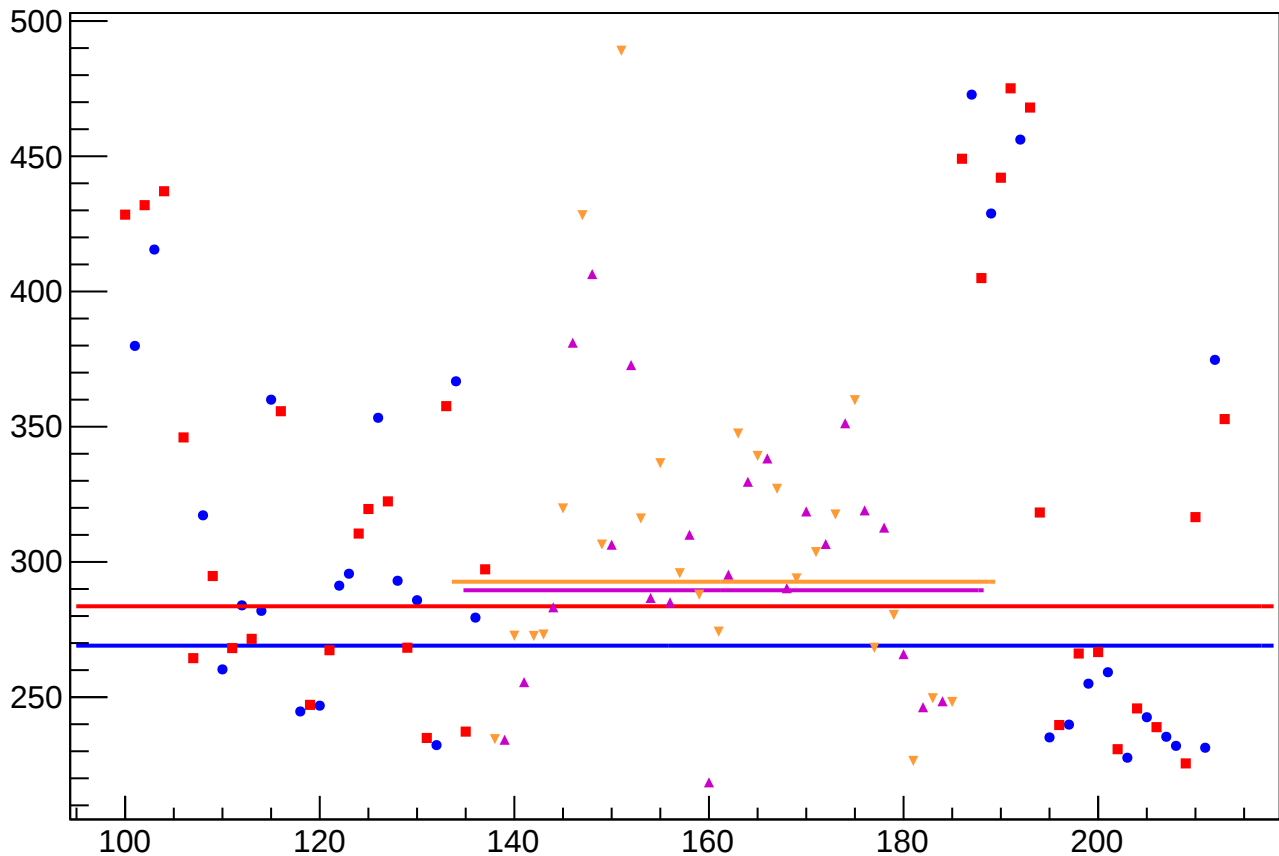
Left In: -304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

+ sign 357.384 ± 49.338 $\chi^2/\text{NDF}: 5575.0/54$

All: 43.440 ± 35.180 $\chi^2/\text{NDF}: 11728.0/111$

- sign -281.280 ± 50.177 $\chi^2/\text{NDF}: 6070.7/56$

asym_bpm0r03WS_rms vs Slug



Right In: 269.048 $\pm$ 0.049 χ^2 /NDF: 1236530.8/29

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 283.604 $\pm$ 0.050 χ^2 /NDF: 1503641.8/33

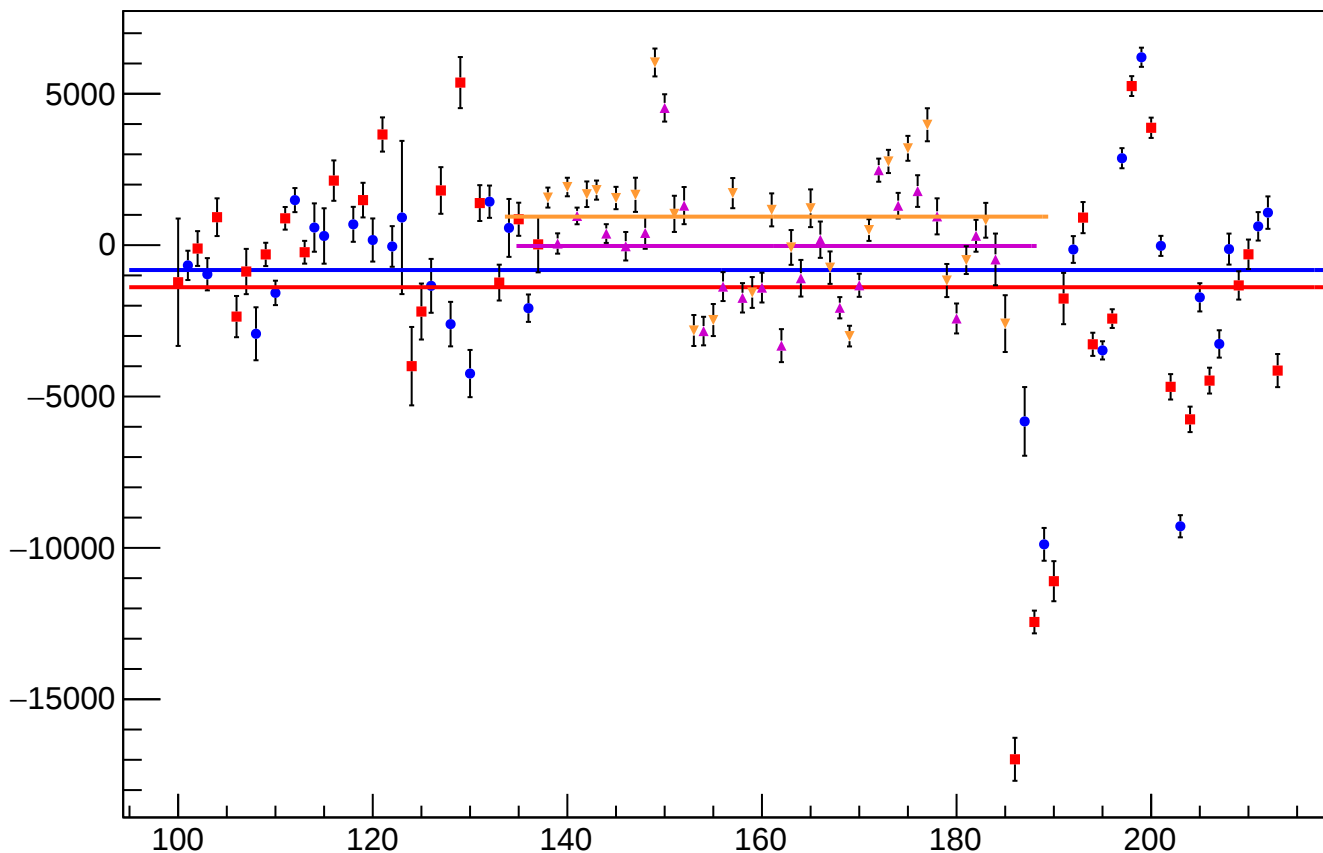
Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

+ sign 280.926 $\pm$ 0.035 χ^2 /NDF: 2276493.6/54

All: 283.697 $\pm$ 0.025 χ^2 /NDF: 4577826.0/111

- sign 286.563 $\pm$ 0.035 χ^2 /NDF: 2288497.2/56

asym_bpm0r05WS_mean vs Slug



Right In: -822.034 ± 90.094 $\chi^2/\text{NDF}: 1703.8/29$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: -1389.640 ± 85.997 $\chi^2/\text{NDF}: 2864.2/33$

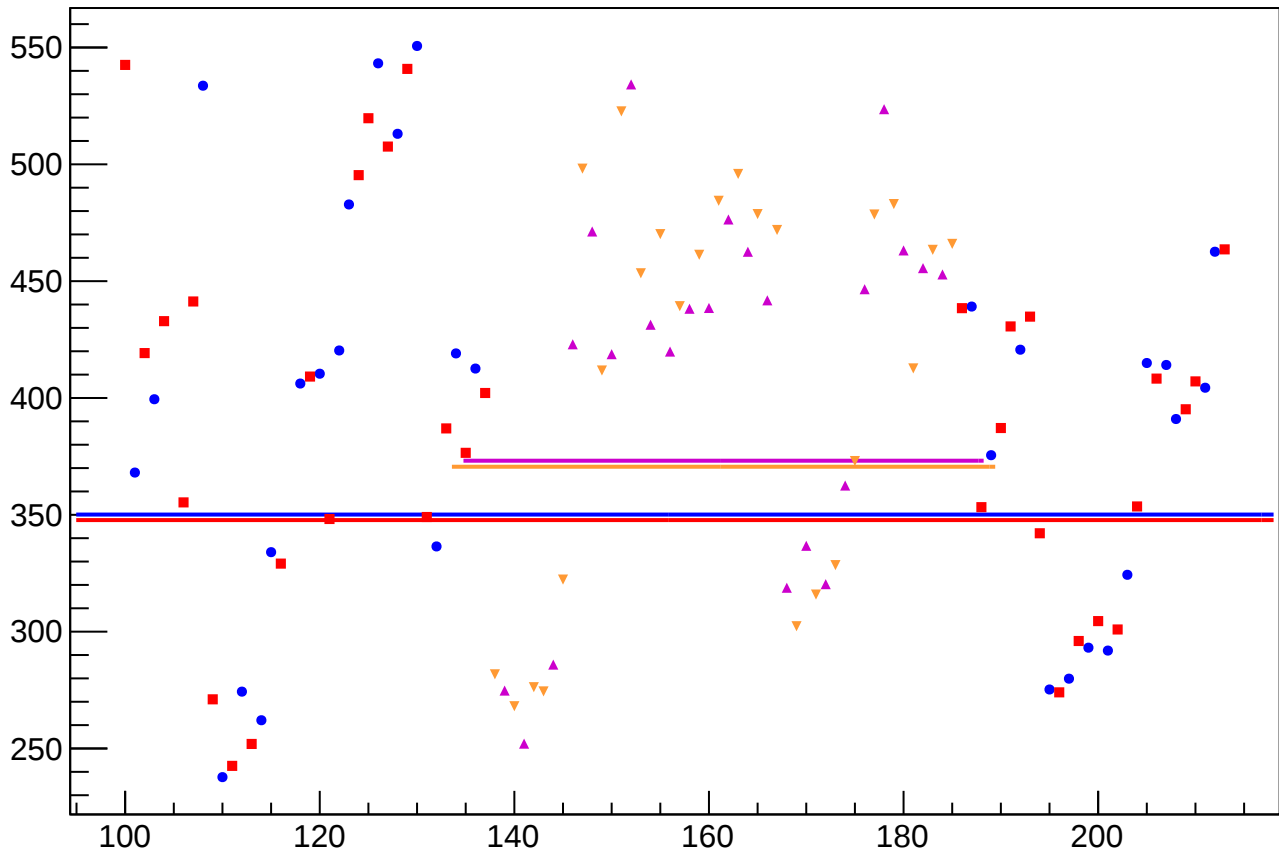
Left In: -27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

+ sign 69.381 ± 63.359 $\chi^2/\text{NDF}: 2442.1/54$

All: -346.626 ± 44.649 $\chi^2/\text{NDF}: 5870.9/111$

- sign -757.013 ± 62.929 $\chi^2/\text{NDF}: 3343.2/56$

asym_bpm0r05WS_rms vs Slug



Right In: 350.112+/-0.064 χ^2/NDF : 1419638.0/29

Left Out: 370.580+/-0.063 χ^2/NDF : 1878118.9/24

Right Out: 347.747+/-0.061 χ^2/NDF : 1335586.8/33

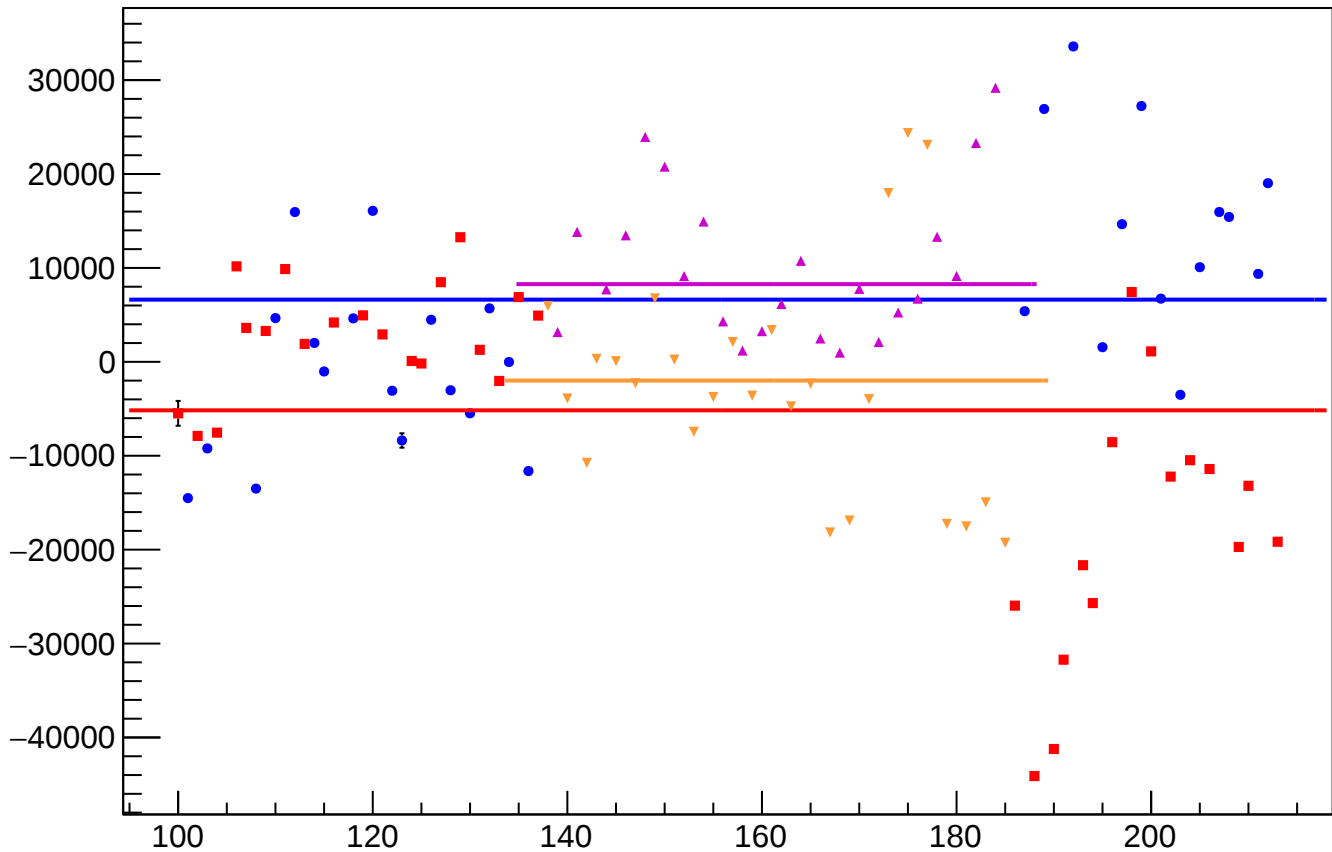
Left In: 373.161+/-0.065 χ^2/NDF : 1636244.2/22

+ sign 360.457+/-0.045 χ^2/NDF : 3349931.0/54

All: 360.002+/-0.032 χ^2/NDF : 6403100.2/111

- sign 359.552+/-0.044 χ^2/NDF : 3052964.0/56

asym_bpm0i02WS_mean vs Slug



Right In: 6622.962 $\pm$ 40.682 χ^2 /NDF: 93694.9/29

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF: 63766.6/24

+ sign 2496.345 $\pm$ 29.364 χ^2 /NDF: 178941.2/54

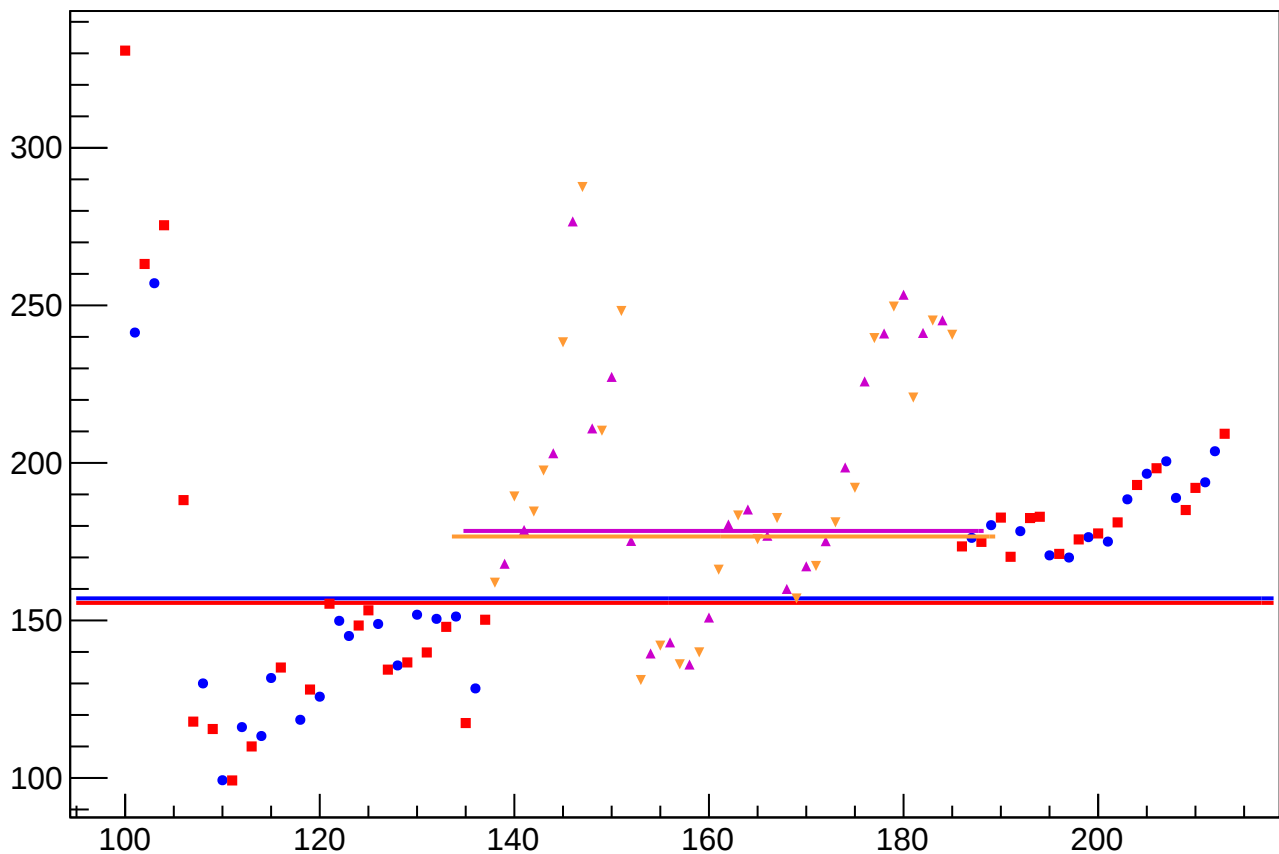
Right Out: -5164.569 $\pm$ 38.756 χ^2 /NDF: 144038.9/33

All: 1572.636 $\pm$ 20.694 χ^2 /NDF: 399935.9/1

Left In: 8273.228 $\pm$ 44.301 χ^2 /NDF: 22870.2/22

- sign 661.138 $\pm$ 29.169 χ^2 /NDF: 219028.6/56

asym_bpm0i02WS_rms vs Slug



Right In: 157.009 $\pm$ 0.029 χ^2 /NDF: 1431781.2/29

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 155.571 $\pm$ 0.027 χ^2 /NDF: 1731052.3/33

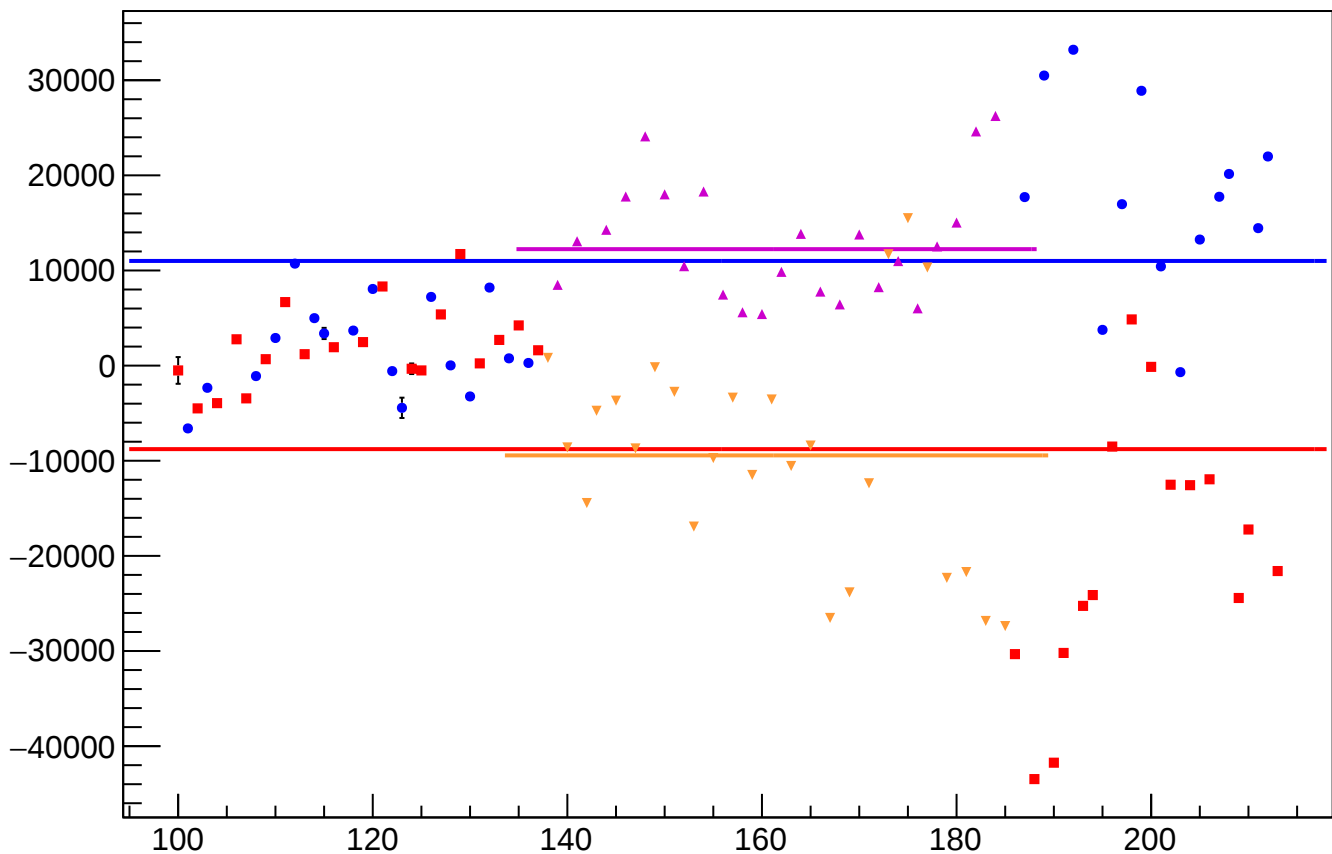
Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

+ sign 166.413 $\pm$ 0.021 χ^2 /NDF: 3205934.9/54

All: 165.940 $\pm$ 0.015 χ^2 /NDF: 6532939.3/111

- sign 165.474 $\pm$ 0.021 χ^2 /NDF: 3325975.9/56

asym_bpm0i02aWS_mean vs Slug



Right In: 11002.209 $\pm$ 45.159 χ^2 /NDF: 55126.9/29

Left Out: -9437.408 $\pm$ 45.534 χ^2 /NDF:62220.4/24

+ sign 867.007 $\pm$ 32.064 χ^2 /NDF: 218929.6/54

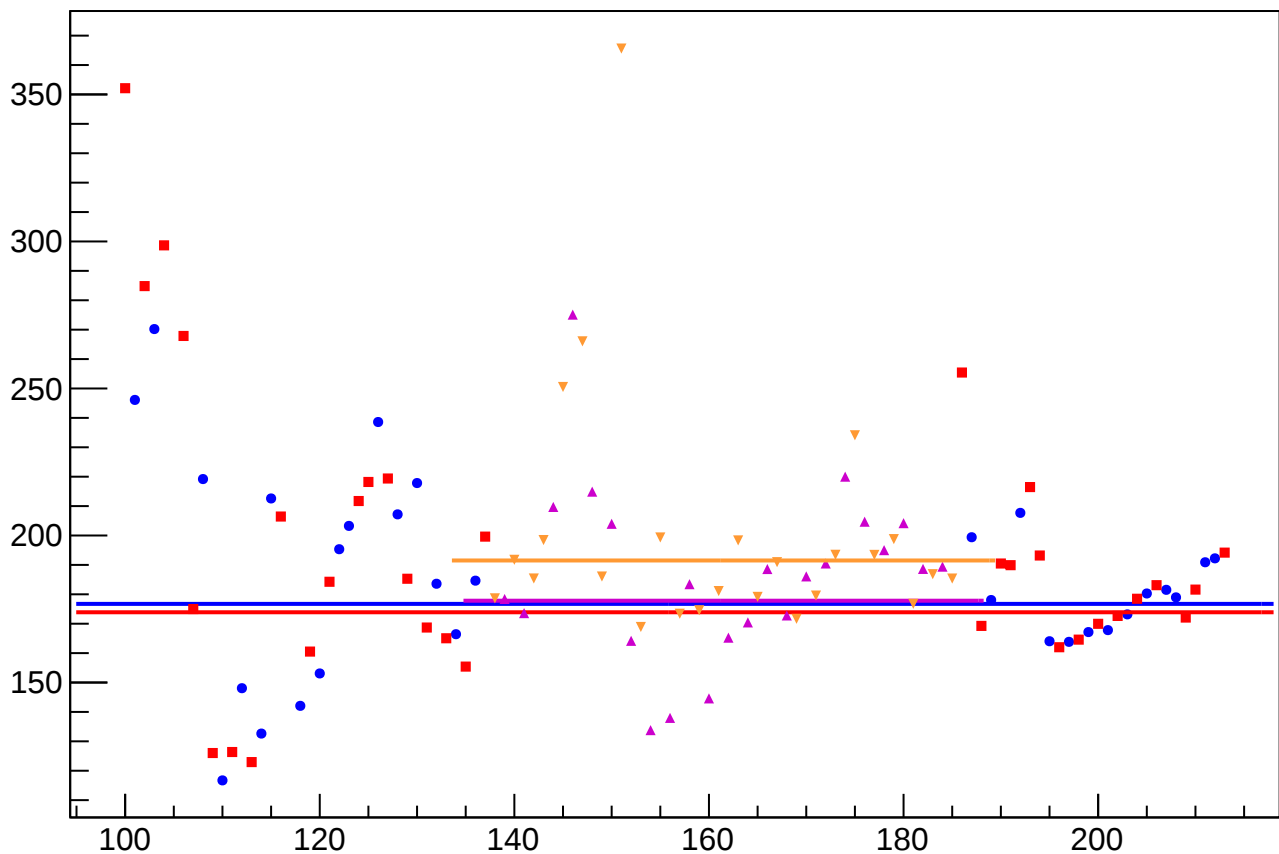
Right Out: -8778.623 $\pm$ 42.880 χ^2 /NDF: 115696.0/33

All: 1183.869 $\pm$ 22.171 χ^2 /NDF: 468642.8/11

Left In: 12242.226 $\pm$ 43.944 χ^2 /NDF:16615.8/22

- sign 1474.160 $\pm$ 30.690 χ^2 /NDF: 249526.0/56

asym_bpm0i02aWS_rms vs Slug



Right In: 176.743 $\pm$ 0.032 χ^2 /NDF: 781849.5/29

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 173.891 $\pm$ 0.030 χ^2 /NDF: 1151604.9/33

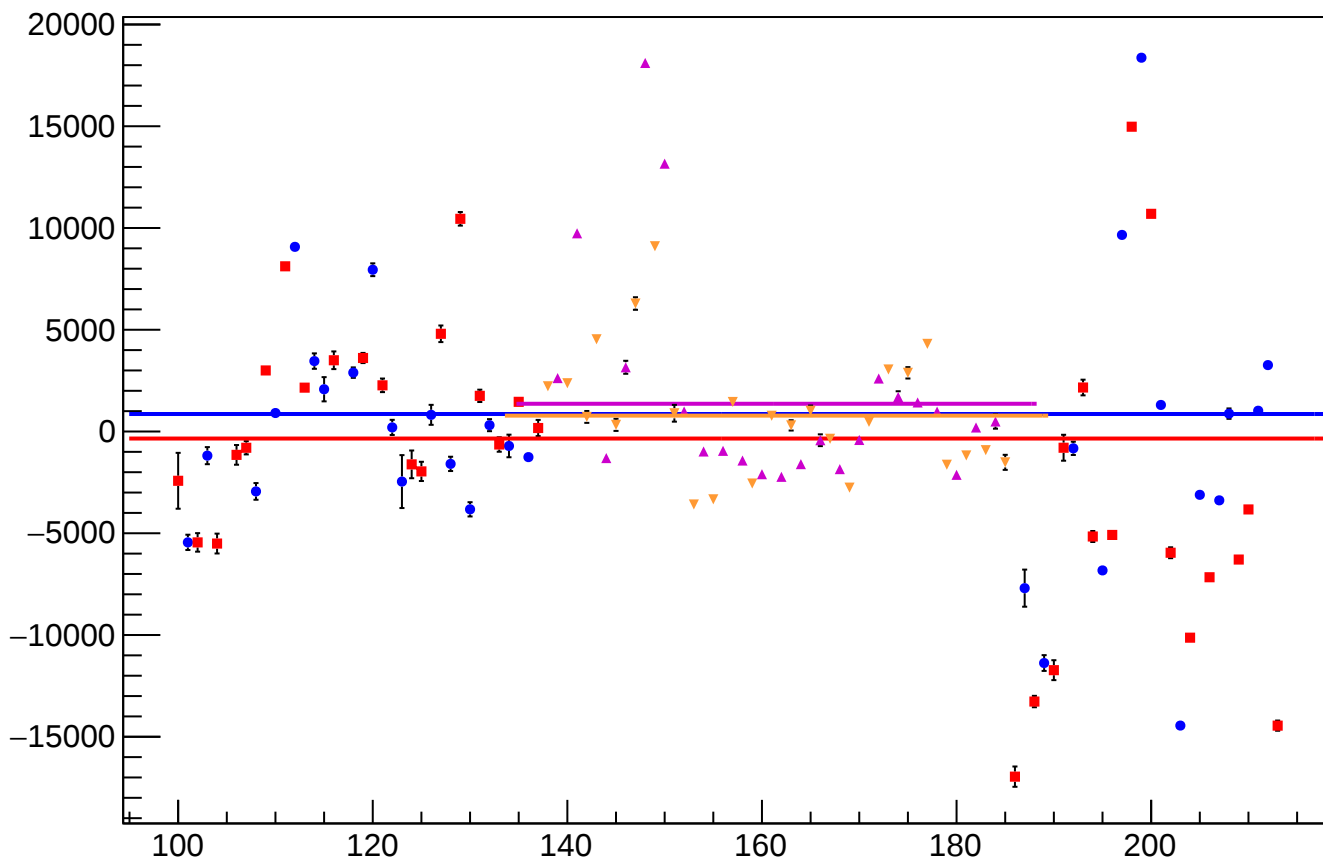
Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

+ sign 184.064 $\pm$ 0.023 χ^2 /NDF: 1615096.9/54

All: 179.755 $\pm$ 0.016 χ^2 /NDF: 3706591.9/111

- sign 175.808 $\pm$ 0.022 χ^2 /NDF: 2022296.3/56

asym_bpm0i05WS_mean vs Slug



Right In: 859.868 $\pm$ 50.602 χ^2 /NDF: 20439.0/29

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: -345.795 $\pm$ 48.260 χ^2 /NDF: 24948.3/33

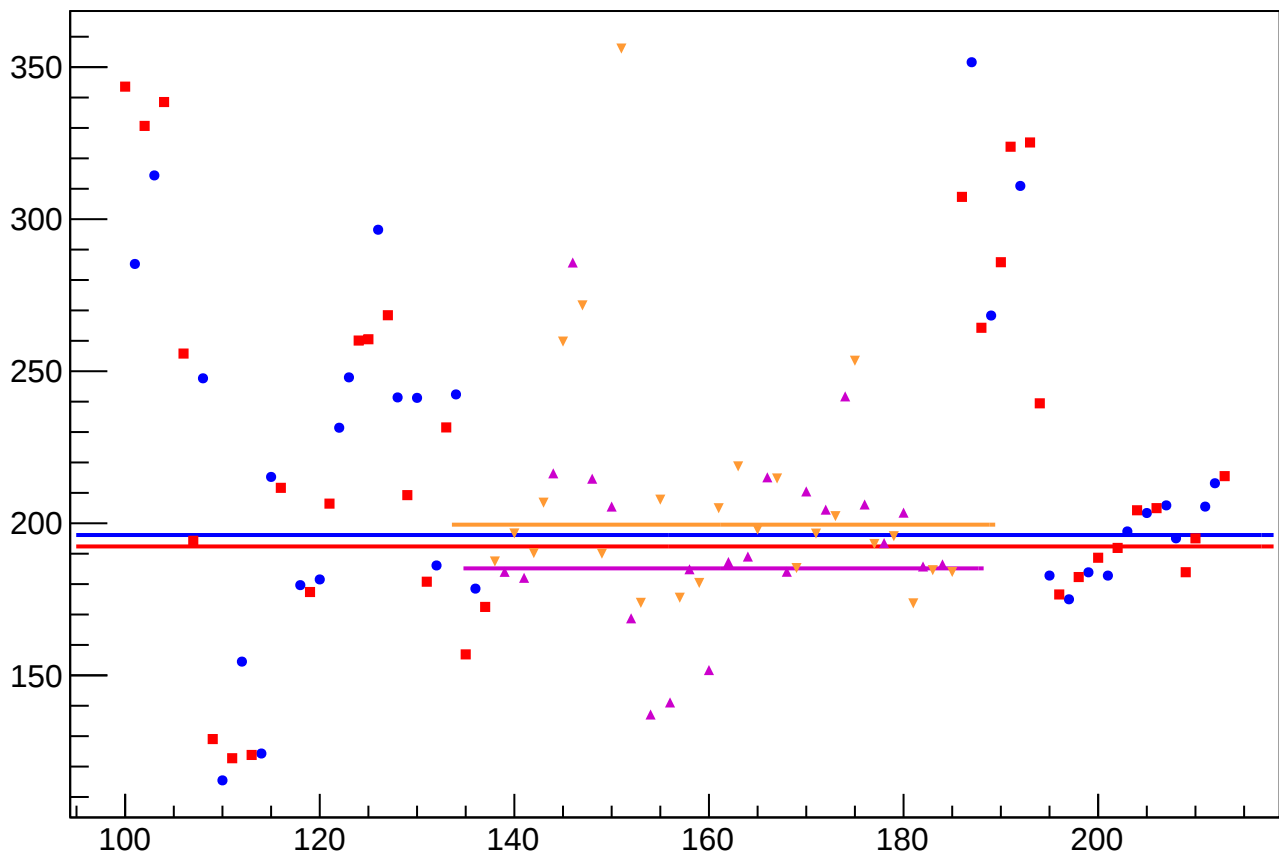
Left In: 1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

+ sign 817.367 $\pm$ 34.616 χ^2 /NDF: 24701.1/54

All: 679.844 $\pm$ 23.970 χ^2 /NDF: 61972.2/111

- sign 553.160 $\pm$ 33.224 χ^2 /NDF: 37240.8/56

asym_bpm0i05WS_rms vs Slug



Right In: 196.143 ± 0.036 $\chi^2/\text{NDF}: 1429138.2/29$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 192.384 ± 0.034 $\chi^2/\text{NDF}: 2162853.9/33$

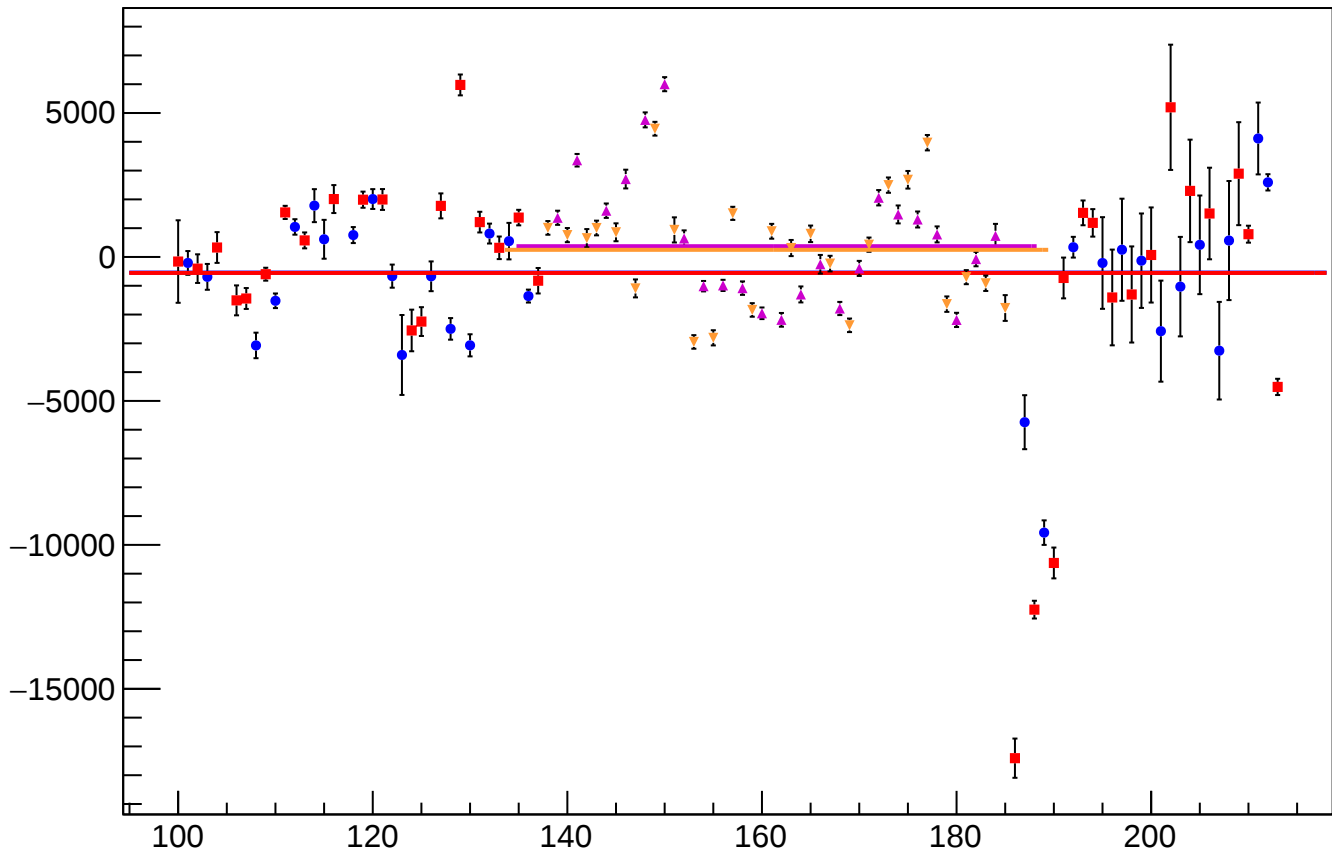
Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

+ sign 197.954 ± 0.024 $\chi^2/\text{NDF}: 2163310.2/54$

All: 193.080 ± 0.017 $\chi^2/\text{NDF}: 5308608.9/111$

- sign 188.589 ± 0.023 $\chi^2/\text{NDF}: 3069113.8/56$

asym_bpm0i07WS_mean vs Slug



Right In: -542.837 $\pm$ 79.807 χ^2/NDF : 913.3/29

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: -555.028 $\pm$ 70.319 χ^2/NDF : 3400.3/33

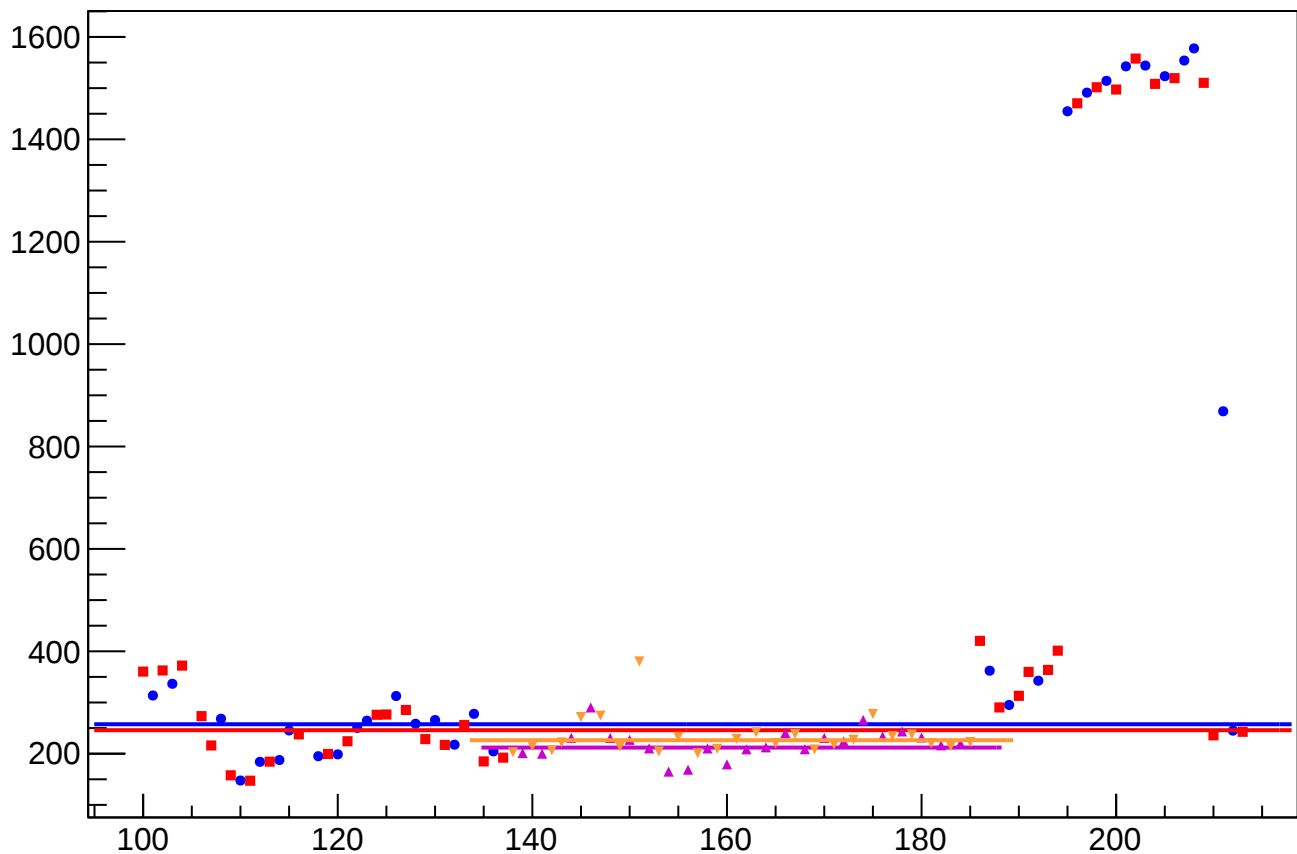
Left In: 374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

+ sign 2.342 $\pm$ 44.470 χ^2/NDF : 2336.1/54

All: 25.102 $\pm$ 30.471 χ^2/NDF : 7650.7/111

- sign 45.245 $\pm$ 41.835 χ^2/NDF : 5314.1/56

asym_bpm0i07WS_rms vs Slug



Right In: 257.520 $\pm$ 0.056 χ^2 /NDF: 10145731.7/29

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 245.898 $\pm$ 0.050 χ^2 /NDF: 9273307.6/33

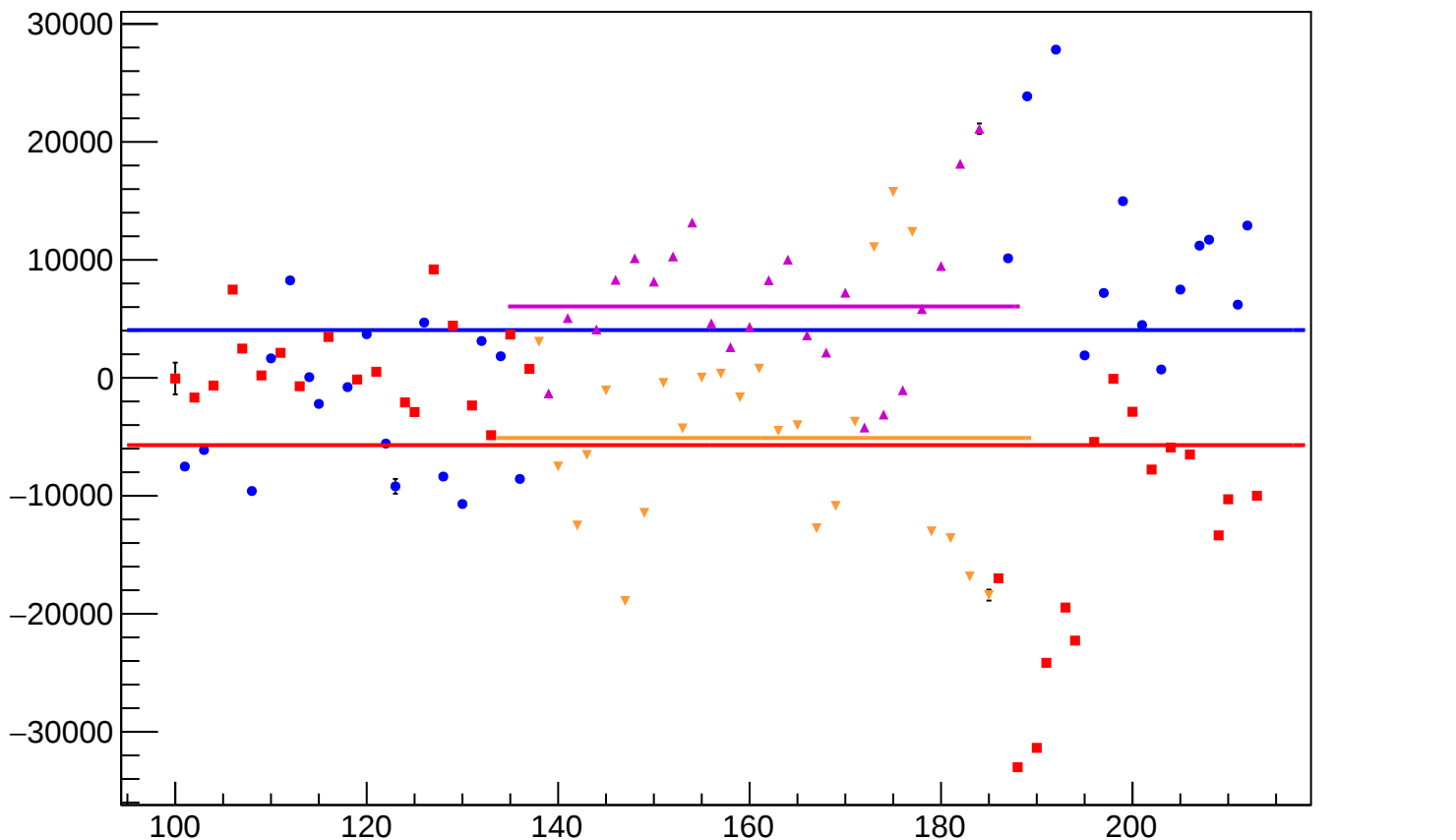
Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

+ sign 236.009 $\pm$ 0.031 χ^2 /NDF: 10877518.3/54

All: 229.627 $\pm$ 0.022 χ^2 /NDF: 21113605.1/11

- sign 223.979 $\pm$ 0.030 χ^2 /NDF: 10158448.2/56

asym_bpm1i02WS_mean vs Slug



Right In: 4050.714 $\pm$ 34.584 χ^2/NDF : 79411.8/29

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF : 54395.4/24

Right Out: -5703.034 $\pm$ 32.712 χ^2/NDF : 103898.9/33

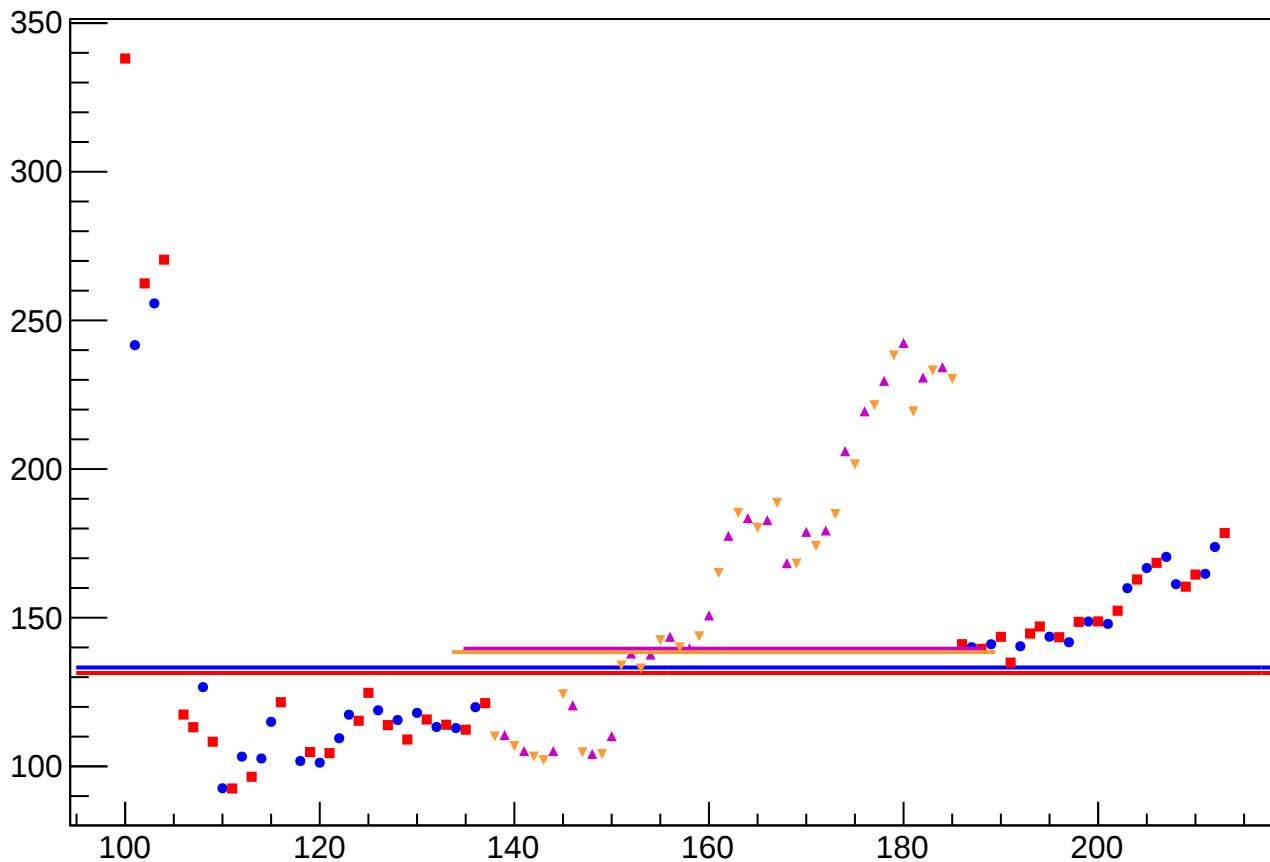
Left In: 6053.569 $\pm$ 34.998 χ^2/NDF : 17590.3/22

+ sign -640.203 $\pm$ 24.137 χ^2/NDF : 169677.9/54

All: -428.652 $\pm$ 16.982 χ^2/NDF : 351547.0/11

- sign -221.271 $\pm$ 23.898 χ^2/NDF : 181717.0/56

asym_bpm1i02WS_rms vs Slug



Right In: 133.251+/-0.024 χ^2/NDF : 1431895.6/29

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

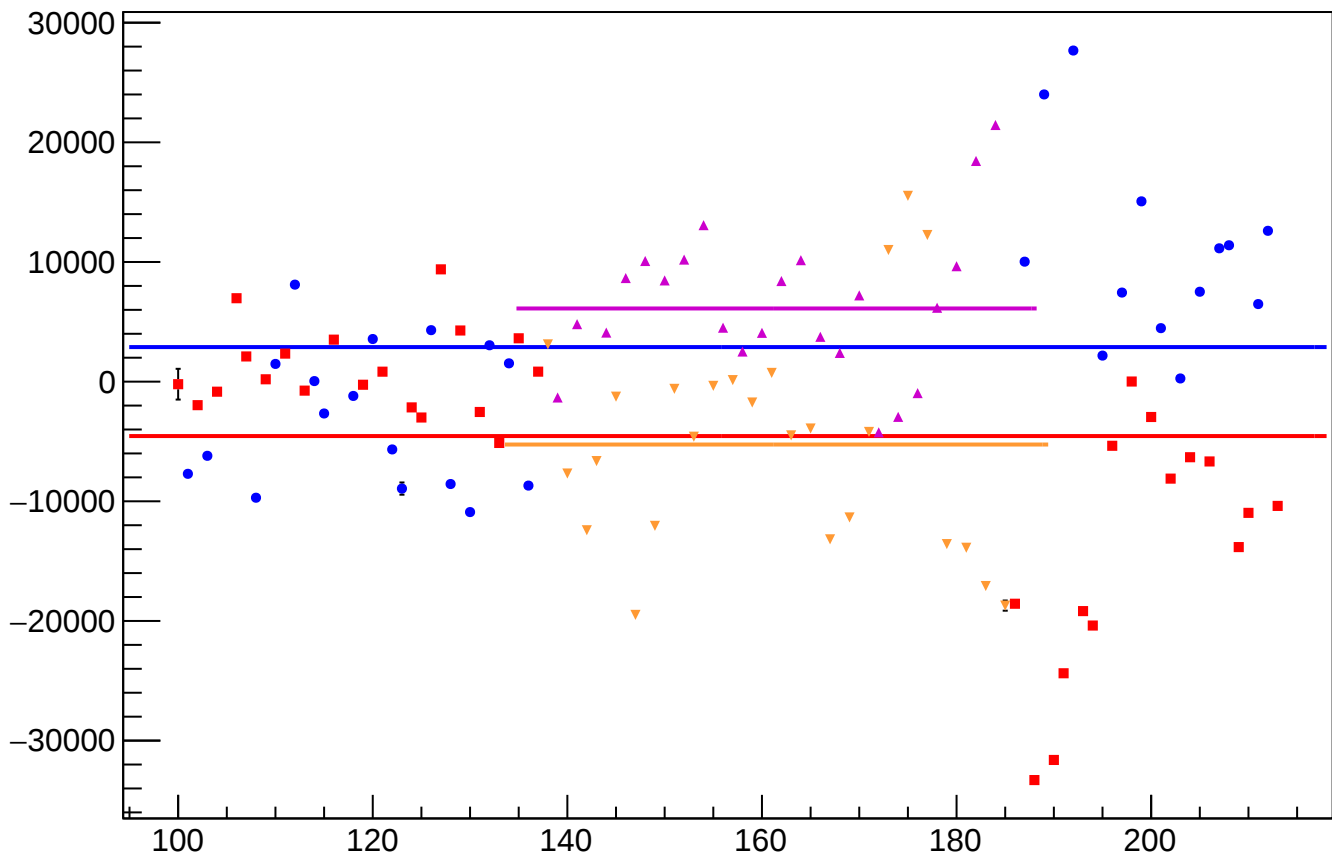
Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

+ sign 135.910+/-0.017 χ^2/NDF : 4004386.3/54

All: 135.560+/-0.012 χ^2/NDF : 8062607.2/111

- sign 135.217+/-0.017 χ^2/NDF : 4057388.1/56

asym_bpm1i04WS_mean vs Slug



Right In: 2888.275+/-31.004 χ^2/NDF : 89711.0/29

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: -4547.836+/-29.462 χ^2/NDF : 113733.0/33

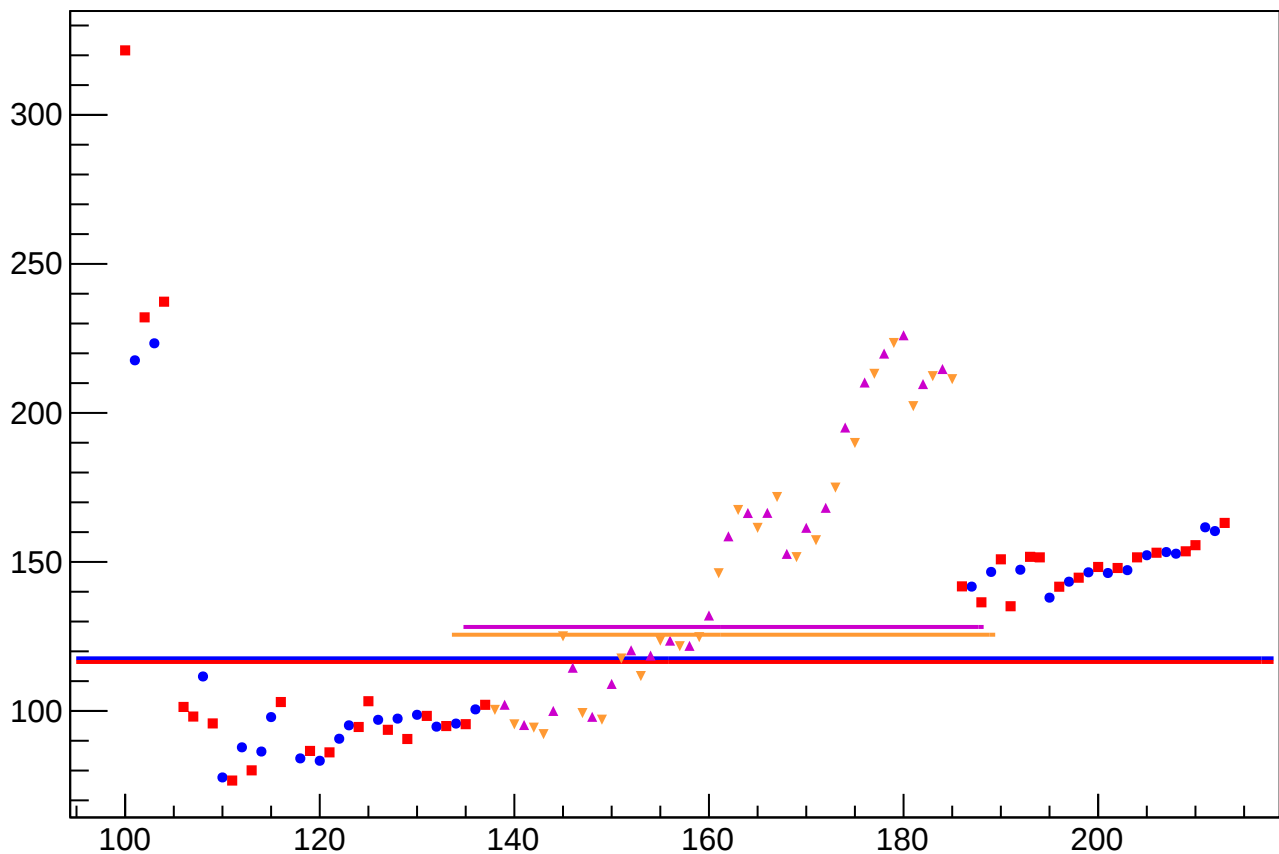
Left In: 6114.901+/-32.126 χ^2/NDF : 21260.9/22

+ sign -1234.189+/-21.787 χ^2/NDF : 188961.9/54

All: -452.856+/-15.380 χ^2/NDF : 386356.5/11

- sign 323.222+/-21.713 χ^2/NDF : 194830.9/56

asym_bpm1i04WS_rms vs Slug



Right In: 117.651+/-0.022 χ^2/NDF : 2199057.1/29

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 116.437+/-0.021 χ^2/NDF : 2474336.2/33

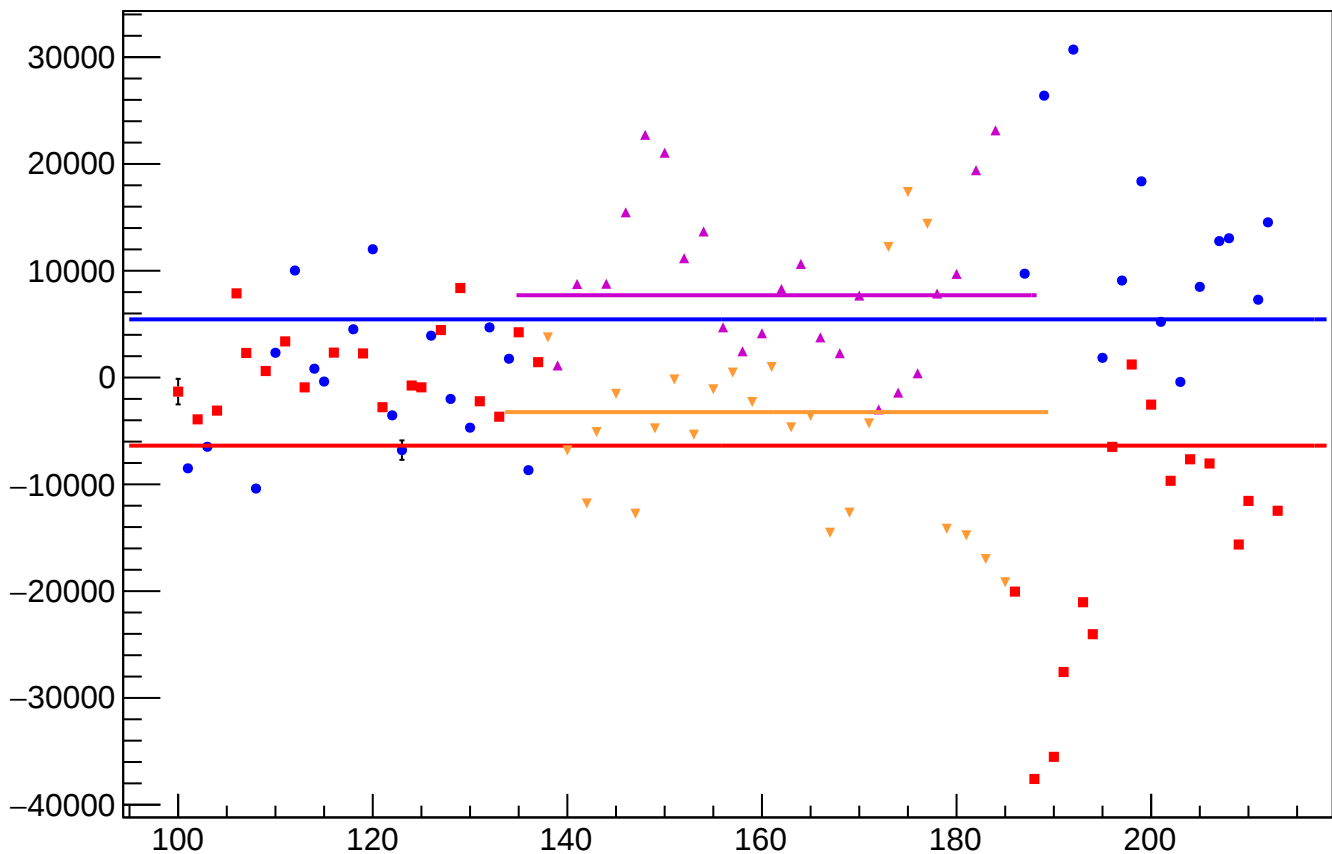
Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

+ sign 121.663+/-0.015 χ^2/NDF : 4860971.2/54

All: 121.734+/-0.011 χ^2/NDF : 9813568.8/111

- sign 121.803+/-0.015 χ^2/NDF : 4952556.4/56

asym_bpm1i06WS_mean vs Slug



Right In: 5447.583 $\pm$ 41.047 χ^2 /NDF: 62537.4/29

Left Out: -3234.922 $\pm$ 40.583 χ^2 /NDF:36739.9/24

Right Out: -6376.236 $\pm$ 38.871 χ^2 /NDF: 93443.9/33

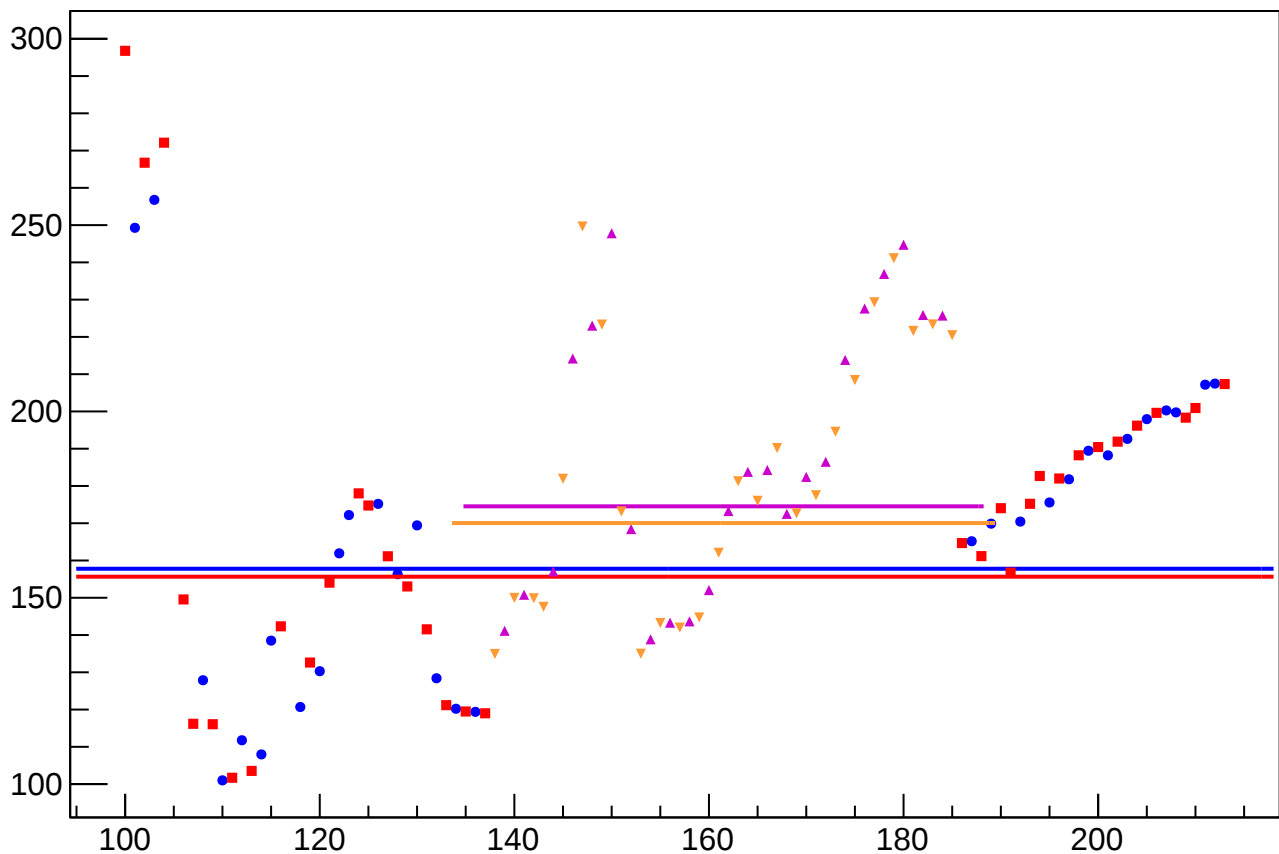
Left In: 7707.068 $\pm$ 42.990 χ^2 /NDF:21268.3/22

+ sign 1056.918 $\pm$ 28.859 χ^2 /NDF: 121903.3/54

All: 507.290 $\pm$ 20.397 χ^2 /NDF: 296385.3/111

- sign -41.330 $\pm$ 28.833 χ^2 /NDF: 173757.3/56

asym_bpm1i06WS_rms vs Slug



Right In: 157.786+/-0.029 χ^2/NDF : 1717931.1/29

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 155.655+/-0.027 χ^2/NDF : 1888899.4/33

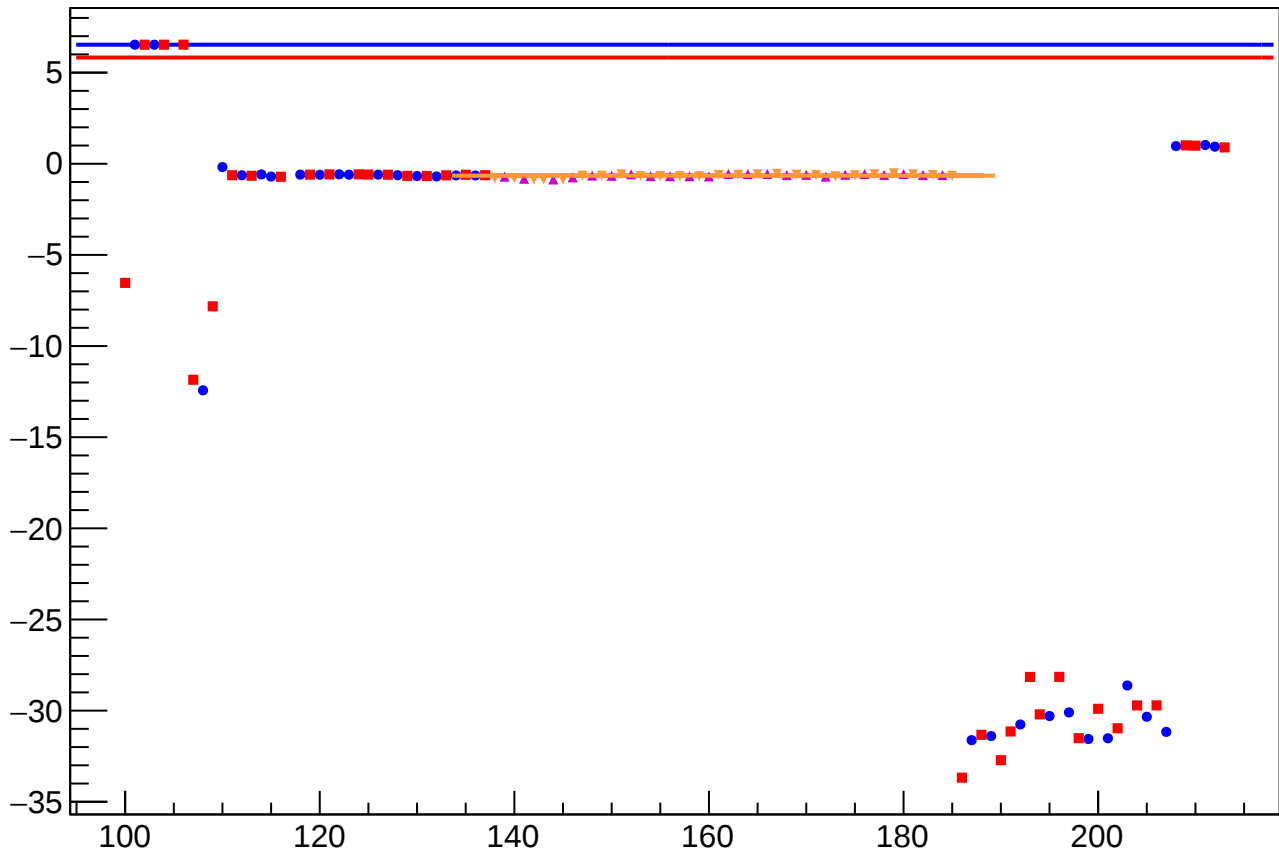
Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

+ sign 163.988+/-0.020 χ^2/NDF : 3049072.7/54

All: 164.069+/-0.014 χ^2/NDF : 6360403.2/111

- sign 164.149+/-0.020 χ^2/NDF : 3311299.1/56

yield_cav4bX_mean vs Slug



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 133635781401.3/29

Left Out: -0.654 $\pm$ 0.000 χ^2 /NDF: 179109810.4/24

Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755951738191681.8/33

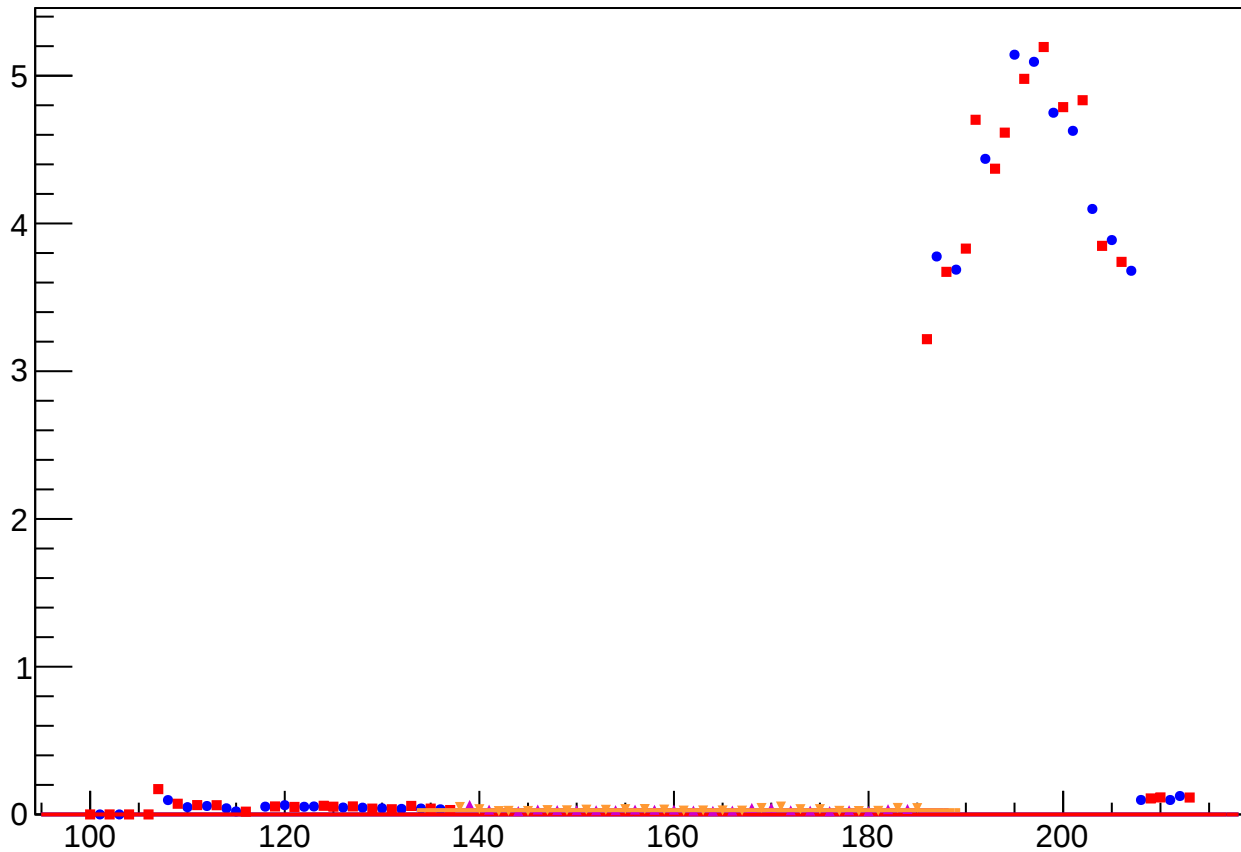
Left In: -0.644 $\pm$ 0.000 χ^2 /NDF: 122913584.0/22

+ sign 6.530 $\pm$ 0.000 χ^2 /NDF: 1005021825874.9/54

All: 6.153 $\pm$ 0.000 χ^2 /NDF: 7776117128339

- sign 5.826 $\pm$ 0.000 χ^2 /NDF: 756623080894224.9/

yield_cav4bX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 26969817.9/29

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29049862.2/33

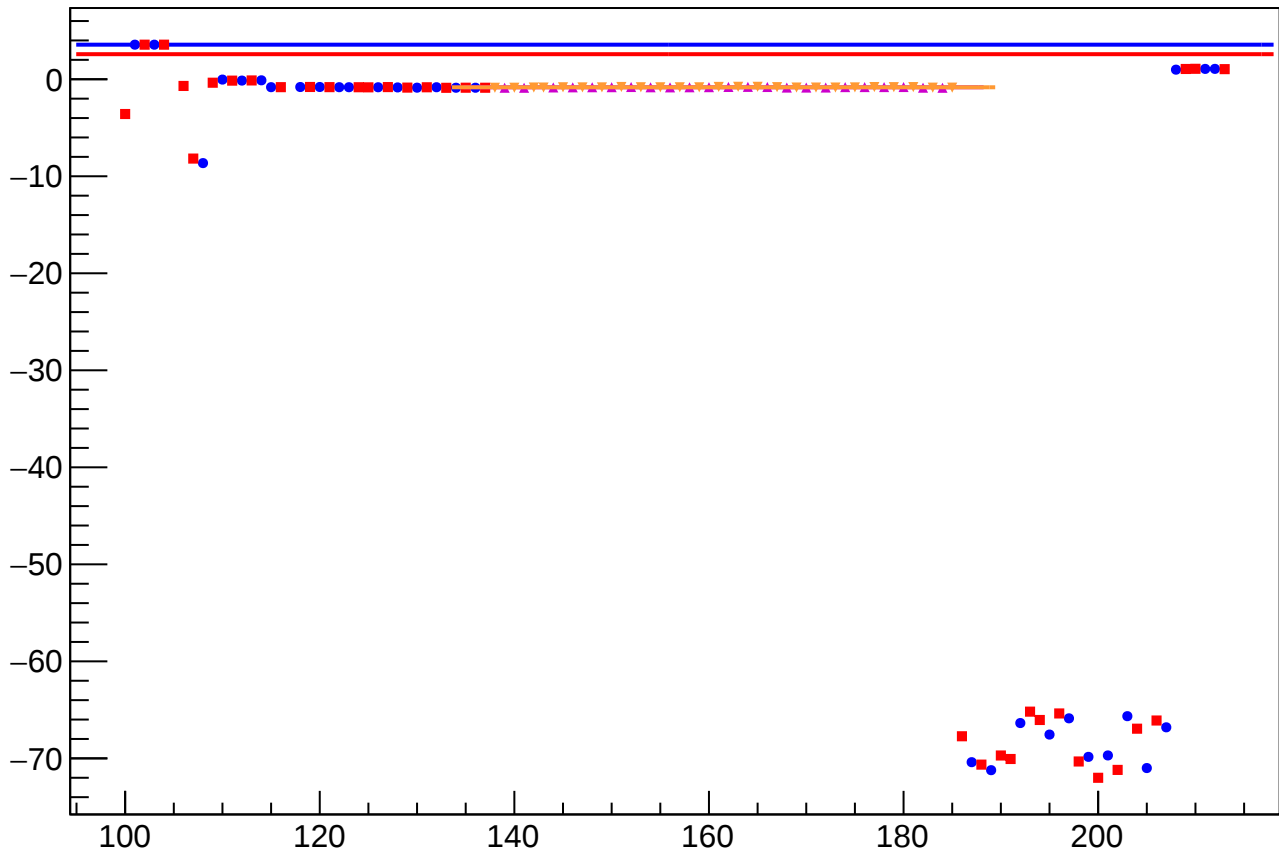
Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 56840703.9/54

All: 0.000+/-0.000 χ^2/NDF : 113856560.1/111

- sign 0.000+/-0.000 χ^2/NDF : 57015152.3/56

yield_cav4bY_mean vs Slug



Right In: 3.563+/-0.000 χ^2/NDF : 544004847606.1/29

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253549061871063.8/33

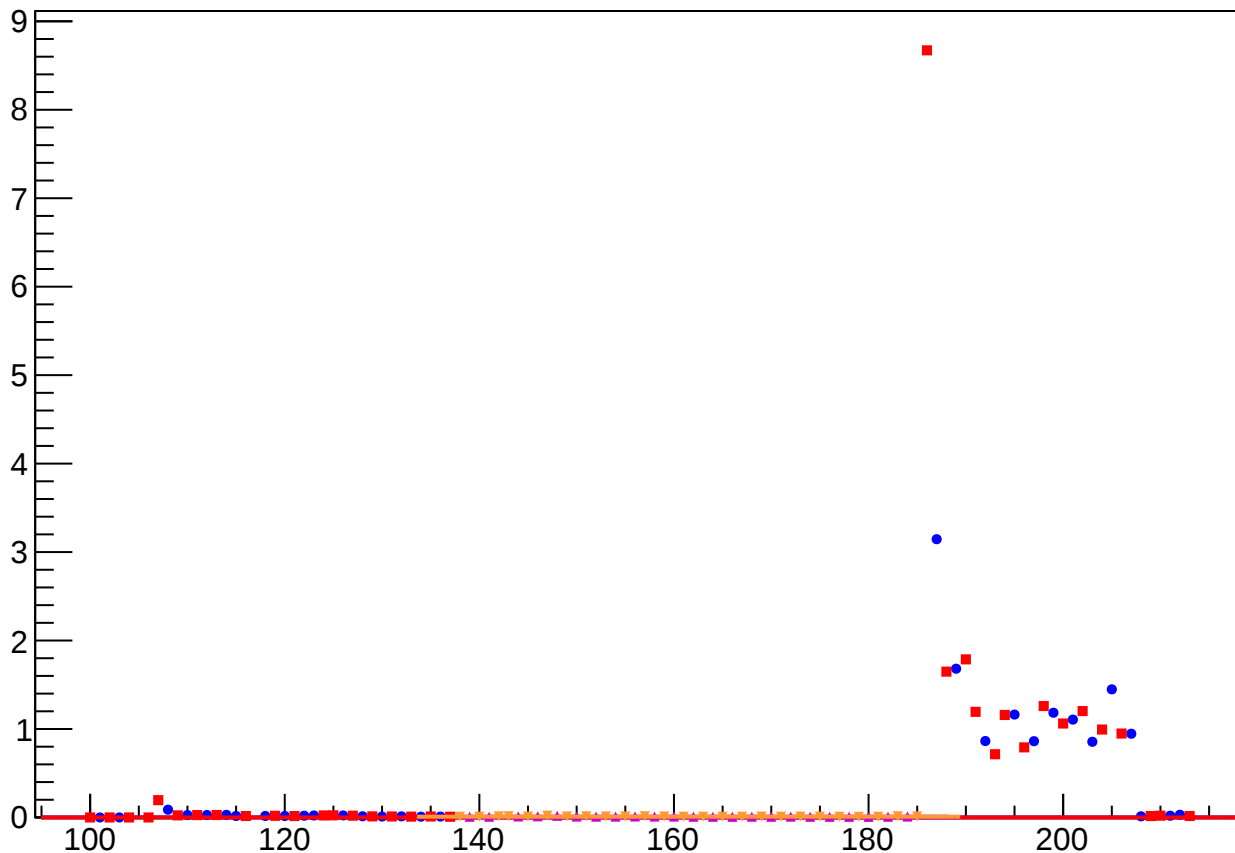
Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

+ sign 3.560+/-0.000 χ^2/NDF : 4226074216511.7/54

All: 3.038+/-0.000 χ^2/NDF : 13880491181380

- sign 2.581+/-0.000 χ^2/NDF : 1255749068436547.0

yield_cav4bY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 24785366.6/29

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26942214.3/33

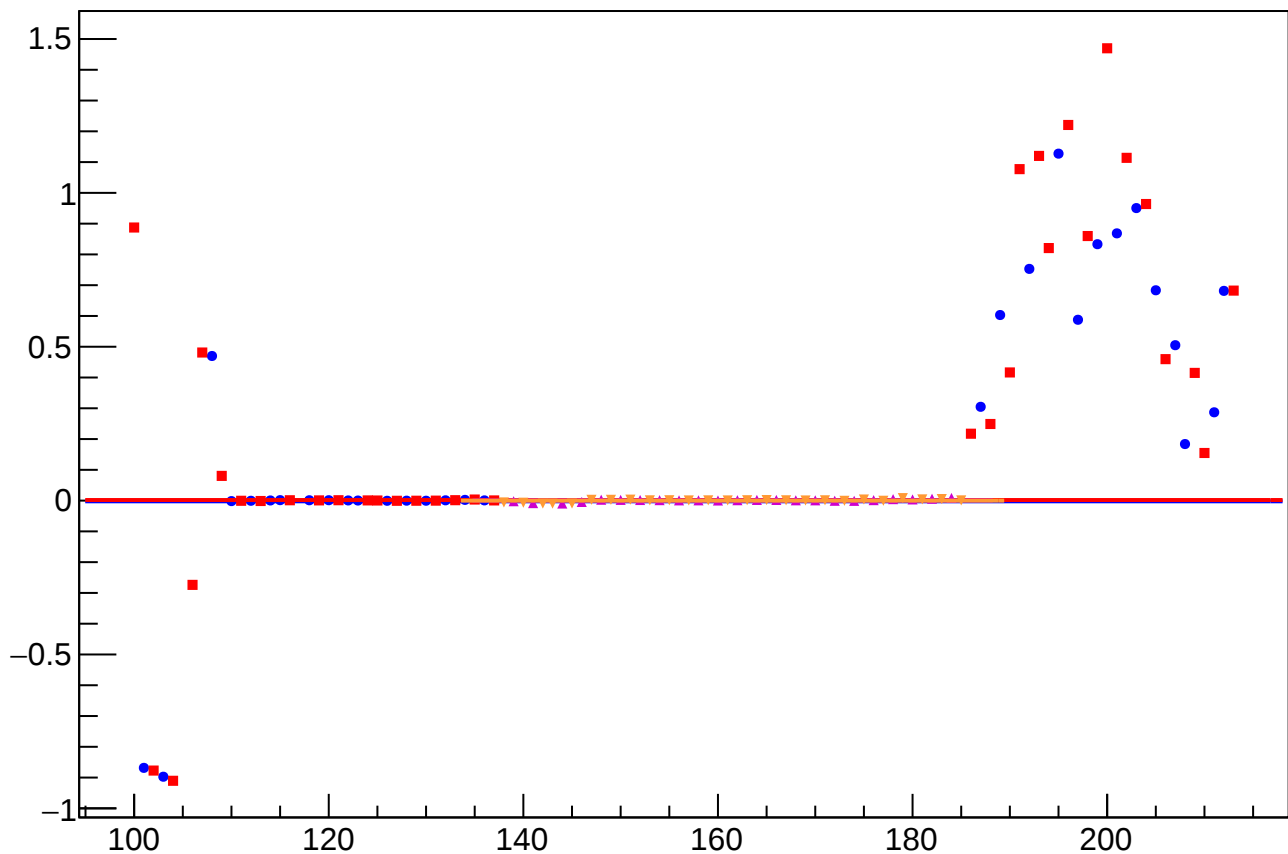
Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 56191739.7/54

All: 0.000+/-0.000 χ^2/NDF : 112677939.2/111

- sign 0.000+/-0.000 χ^2/NDF : 56485119.0/56

yield_cav4cX_mean vs Slug



Right In: -0.002+/-0.000 χ^2/NDF : 9797160328.4/29

Left Out: -0.000+/-0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3043746940.9/33

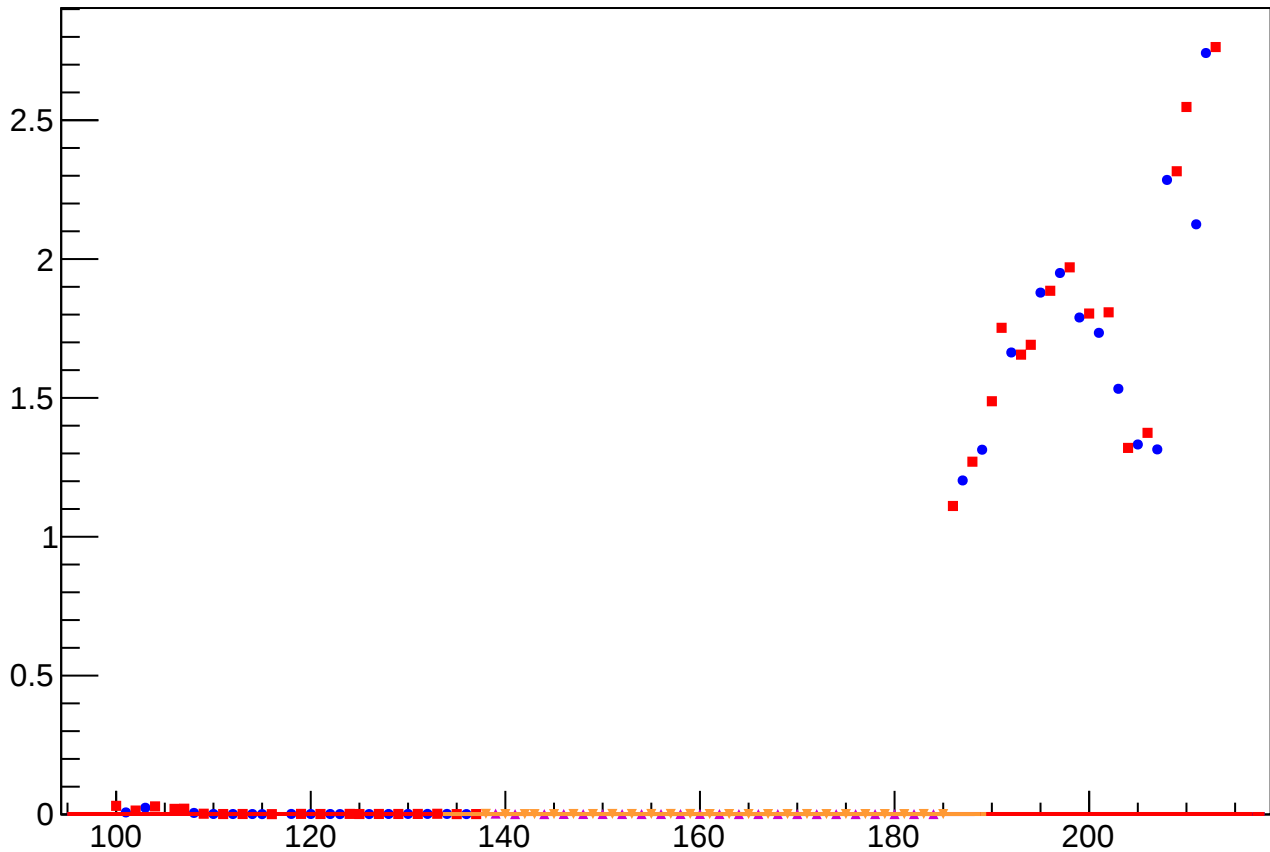
Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

+ sign -0.001+/-0.000 χ^2/NDF : 9955174337.3/54

All: 0.000+/-0.000 χ^2/NDF : 13109911008.7/100

- sign 0.001+/-0.000 χ^2/NDF : 3147155314.2/56

yield_cav4cX_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 19854351.9/29

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 22698185.4/33

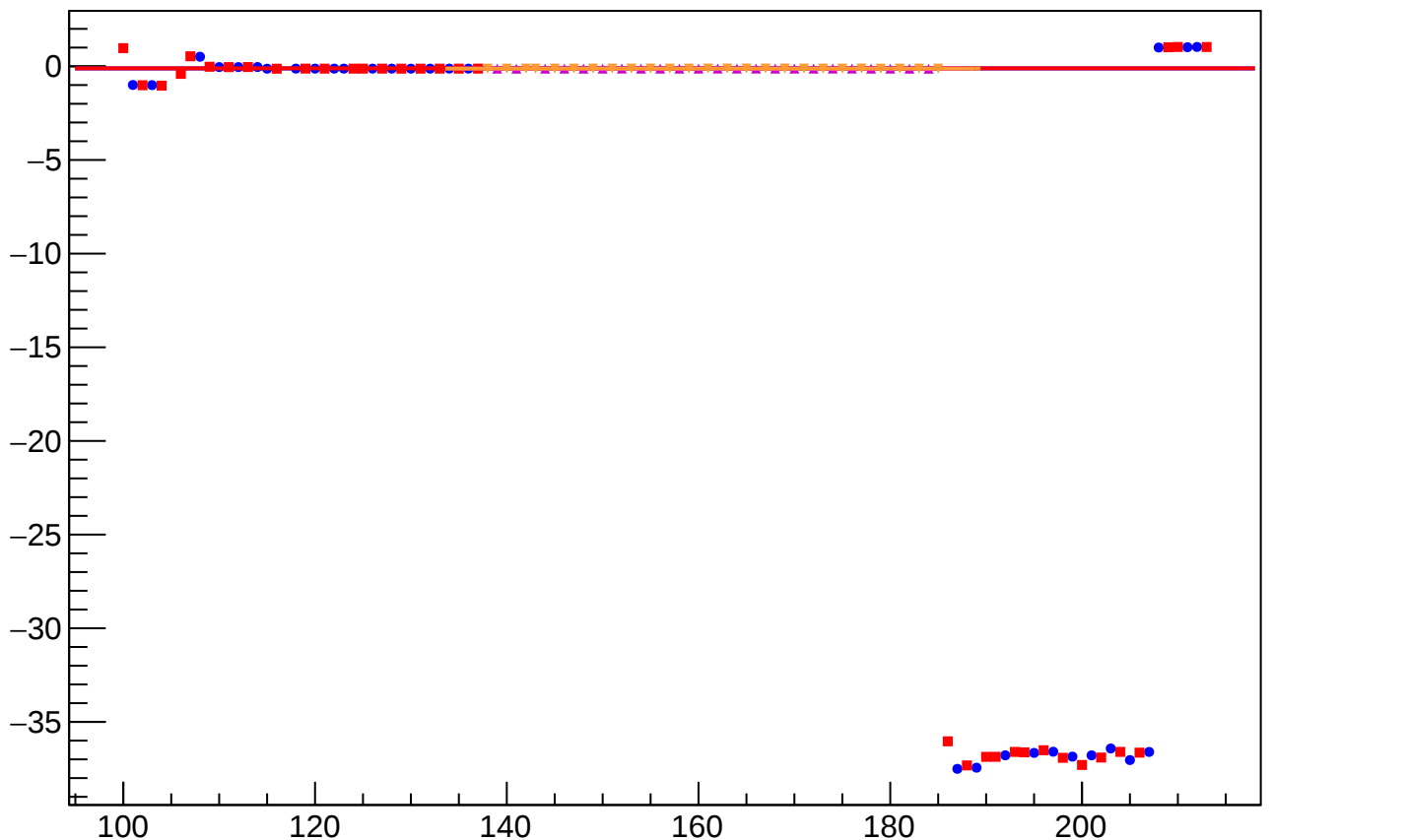
Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

+ sign 0.002+/-0.000 χ^2/NDF : 20467087.6/54

All: 0.002+/-0.000 χ^2/NDF : 43911379.6/111

- sign 0.002+/-0.000 χ^2/NDF : 23435332.4/56

yield_cav4cY_mean vs Slug



Right In: -0.113 ± 0.000 $\chi^2/\text{NDF}: 82600291239.0/29$

Left Out: -0.121 ± 0.000 $\chi^2/\text{NDF}: 58120109.3/24$

Right Out: -0.107 ± 0.000 $\chi^2/\text{NDF}: 87770981460.9/33$

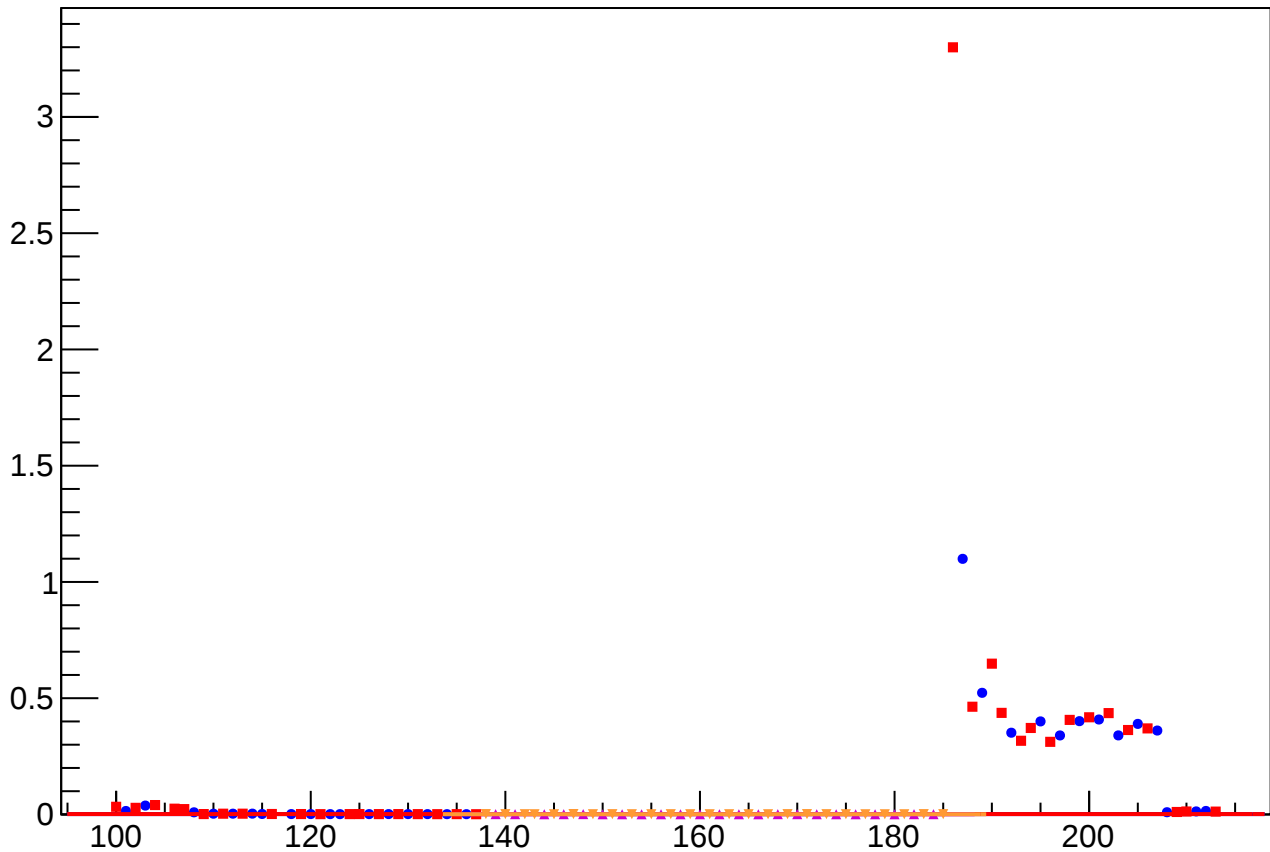
Left In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 52113932.9/22$

+ sign -0.120 ± 0.000 $\chi^2/\text{NDF}: 82762251158.1/54$

All: -0.120 ± 0.000 $\chi^2/\text{NDF}: 170903918327.4$

- sign -0.120 ± 0.000 $\chi^2/\text{NDF}: 88135396837.6/56$

yield_cav4cY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 19168096.2/29

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21615882.4/33

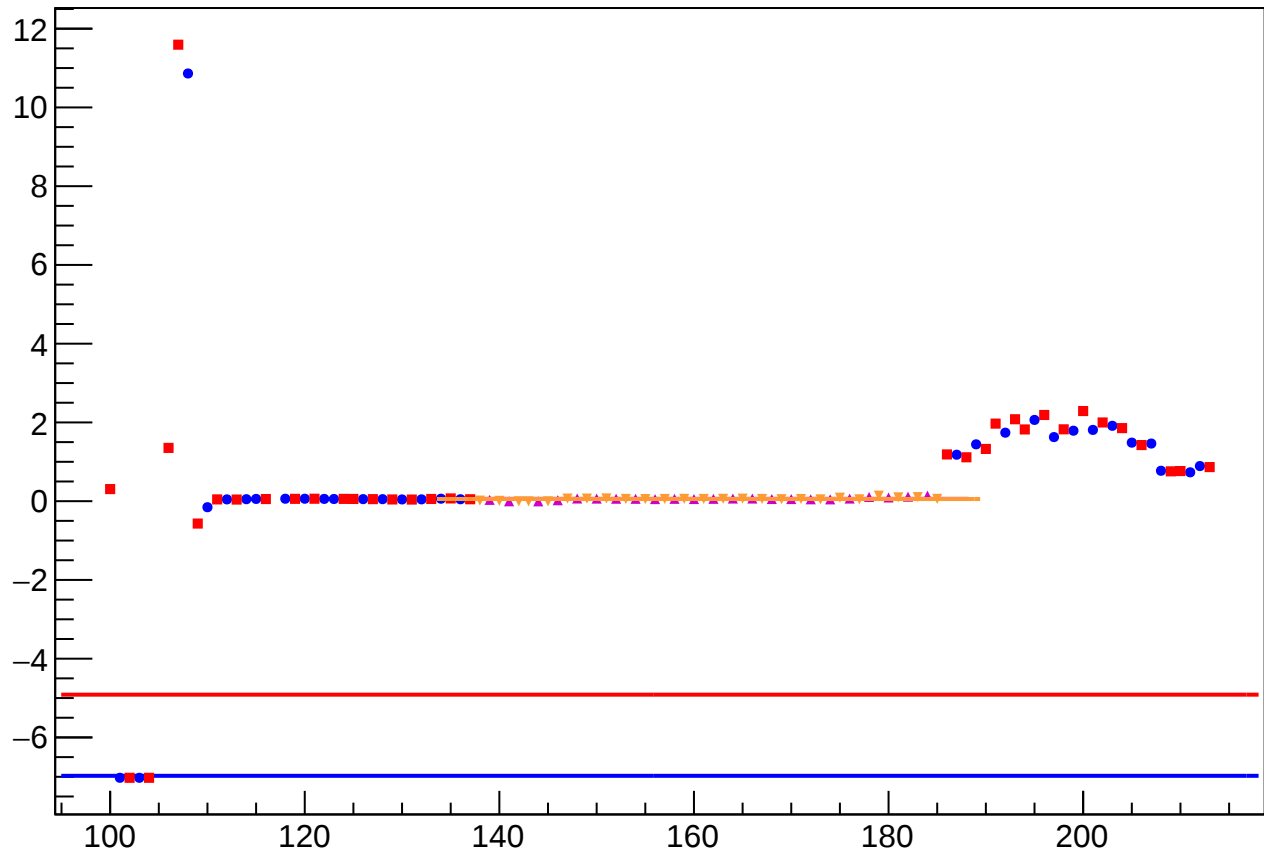
Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

+ sign 0.001+/-0.000 χ^2/NDF : 22070736.1/54

All: 0.001+/-0.000 χ^2/NDF : 46149725.9/111

- sign 0.001+/-0.000 χ^2/NDF : 24076638.5/56

yield_cav4dX_mean vs Slug



Right In: -6.975 ± 0.000 χ^2/NDF : 8797838148190.4/29

Left Out: 0.055 ± 0.000 χ^2/NDF : 243682351.4/24

Right Out: -4.914 ± 0.000 χ^2/NDF : 365352939436107.6/33

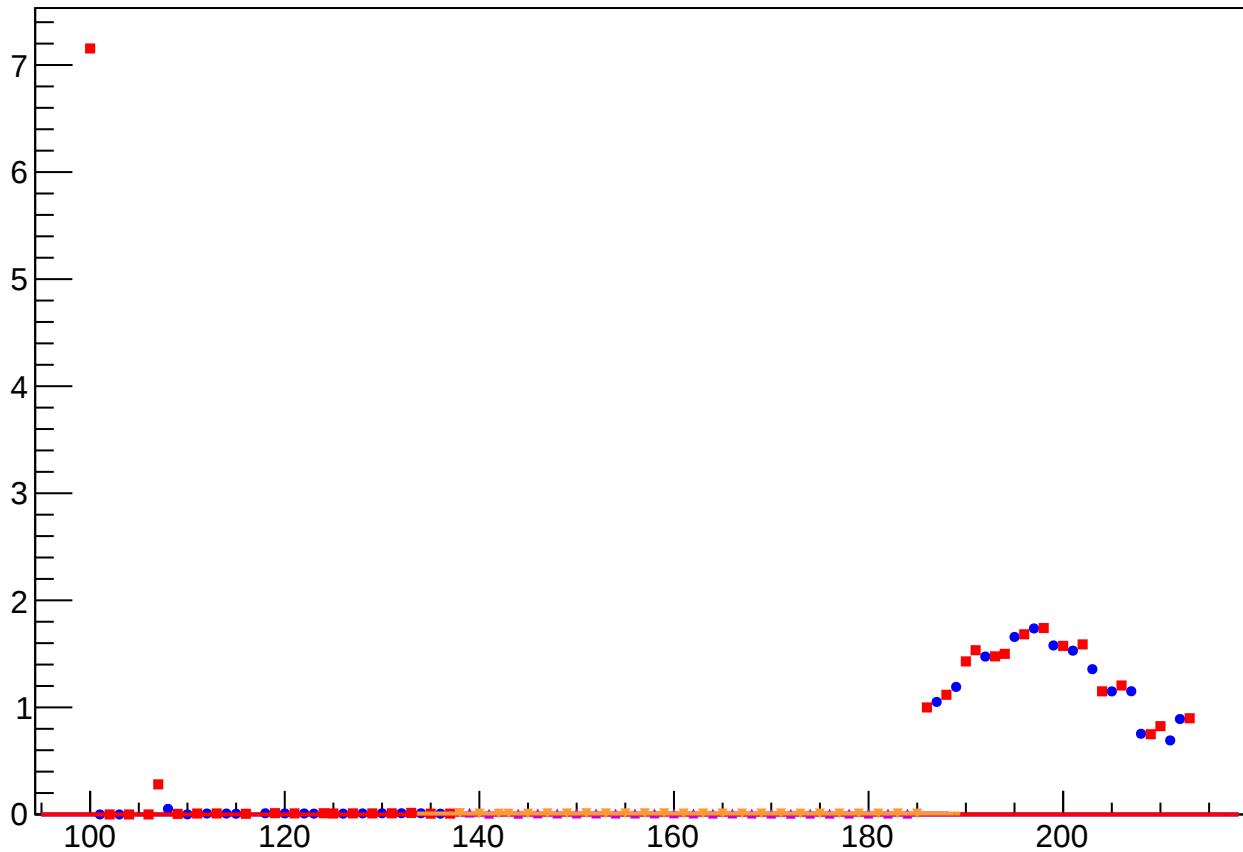
Left In: 0.059 ± 0.000 χ^2/NDF : 178541521.9/22

+ sign -6.921 ± 0.000 χ^2/NDF : 18424147200198.4/29

All: -5.858 ± 0.000 χ^2/NDF : 4435292947267.6/33

- sign -4.882 ± 0.000 χ^2/NDF : 369731957976531.8/33

yield_cav4dX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 26308492.1/29

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 28485107.5/33

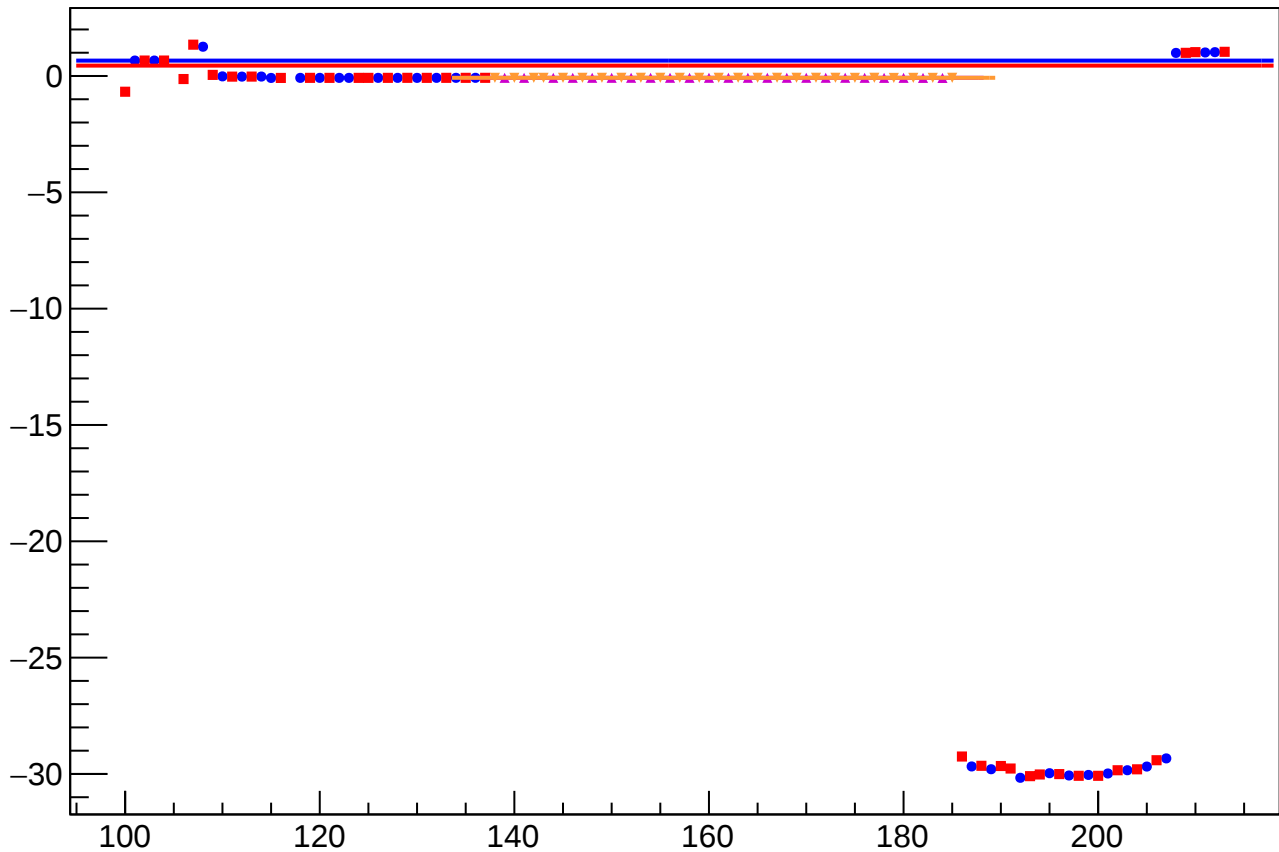
Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

+ sign 0.000+/-0.000 χ^2/NDF : 55209450.3/54

All: 0.000+/-0.000 χ^2/NDF : 111154539.4/111

- sign 0.000+/-0.000 χ^2/NDF : 55940262.8/56

yield_cav4dY_mean vs Slug



Right In: 0.661 $\pm$ 0.000 χ^2 /NDF: 5720741655909.1/29

Left Out: -0.078 $\pm$ 0.000 χ^2 /NDF: 156404795.7/24

Right Out: 0.446 $\pm$ 0.000 χ^2 /NDF: 405494269861149.1/33

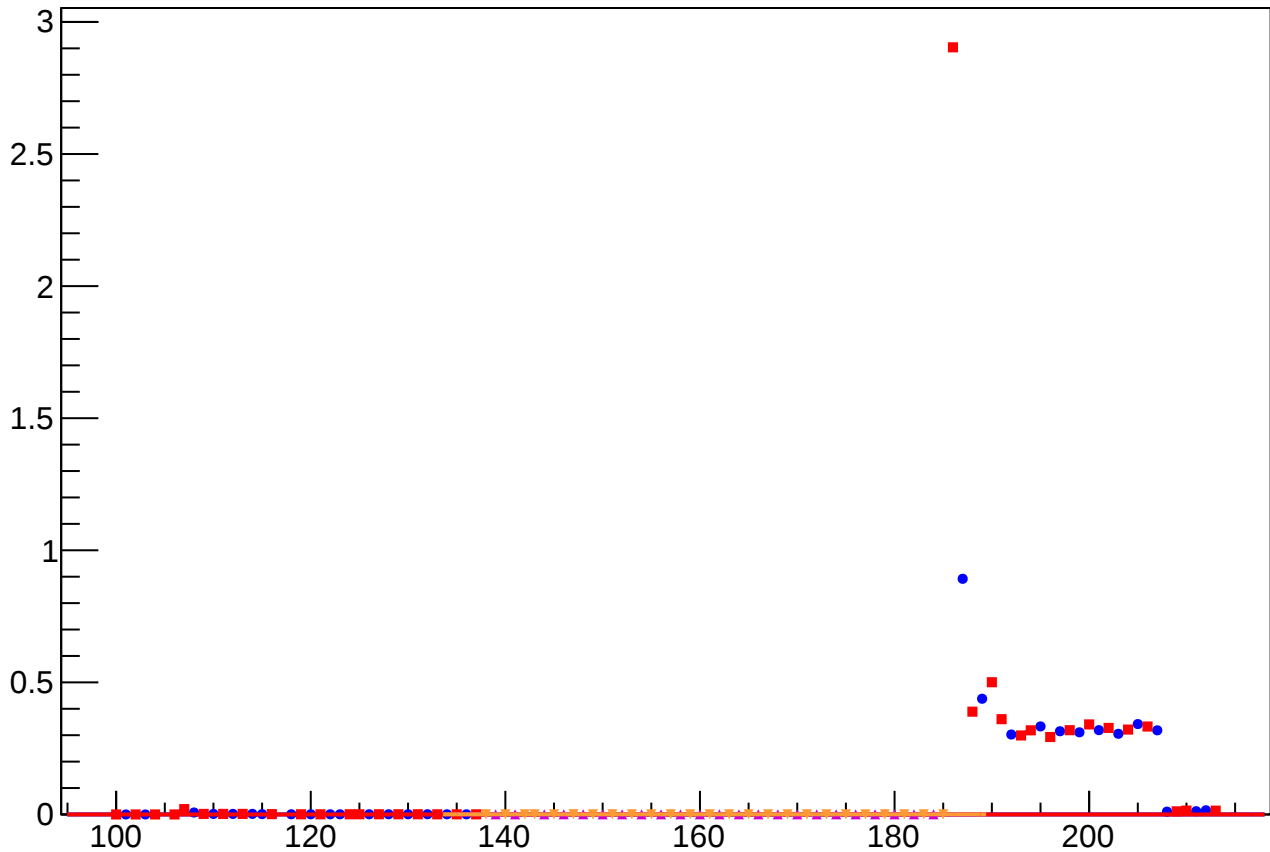
Left In: -0.077 $\pm$ 0.000 χ^2 /NDF: 110762924.1/22

+ sign 0.646 $\pm$ 0.000 χ^2 /NDF: 35819648468713.0/5

All: 0.537 $\pm$ 0.000 χ^2 /NDF: 51597285575238

- sign 0.437 $\pm$ 0.000 χ^2 /NDF: 419616416145853.3/

yield_cav4dY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 27692873.7/29

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29048800.9/33

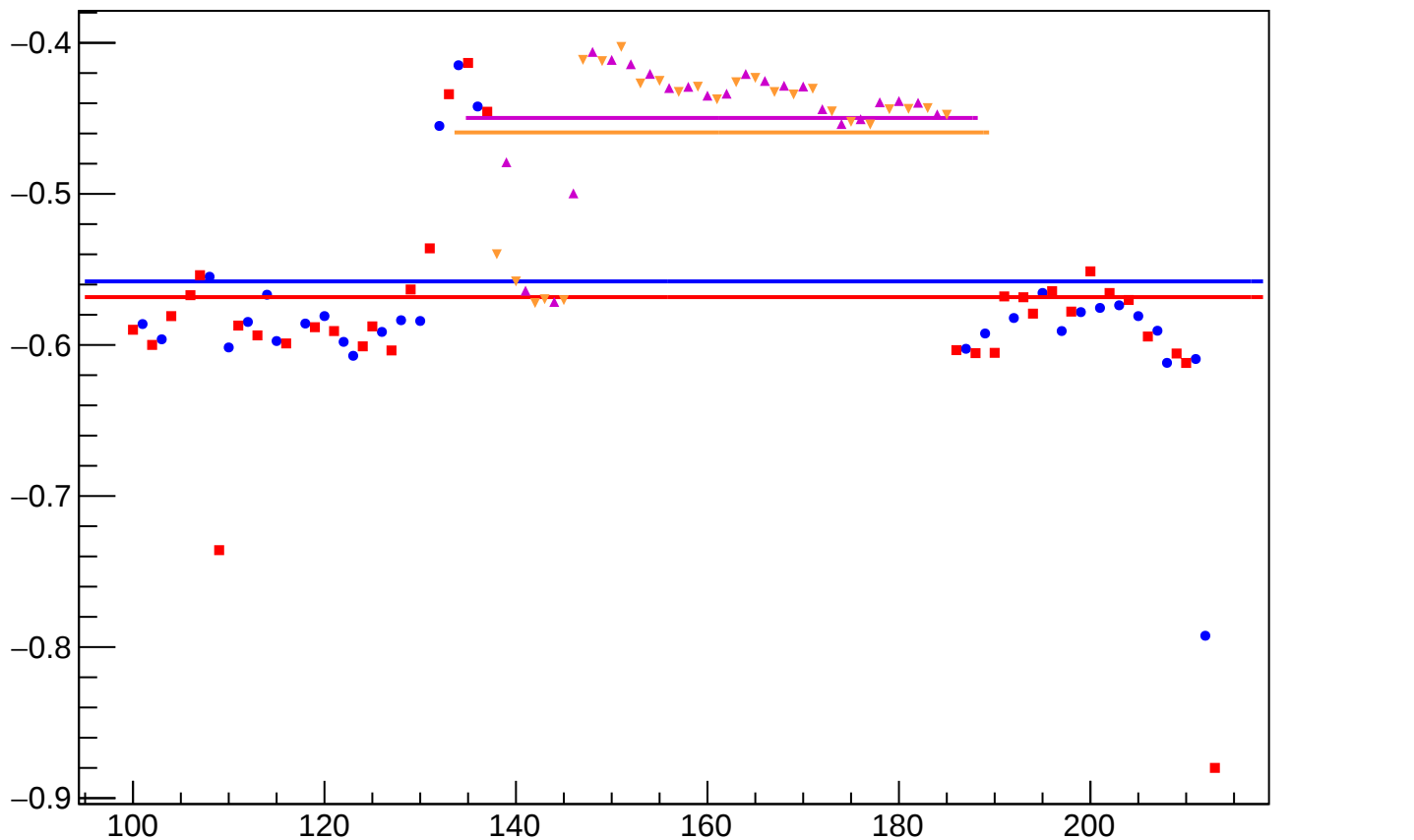
Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

+ sign 0.000+/-0.000 χ^2/NDF : 60238910.7/54

All: 0.000+/-0.000 χ^2/NDF : 120082149.2/111

- sign 0.000+/-0.000 χ^2/NDF : 59835351.4/56

yield_bpm4aX_mean vs Slug



Right In: -0.558 ± 0.000 χ^2/NDF : 63411410.4/29

Left Out: -0.459 ± 0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.568 ± 0.000 χ^2/NDF : 88888204.3/33

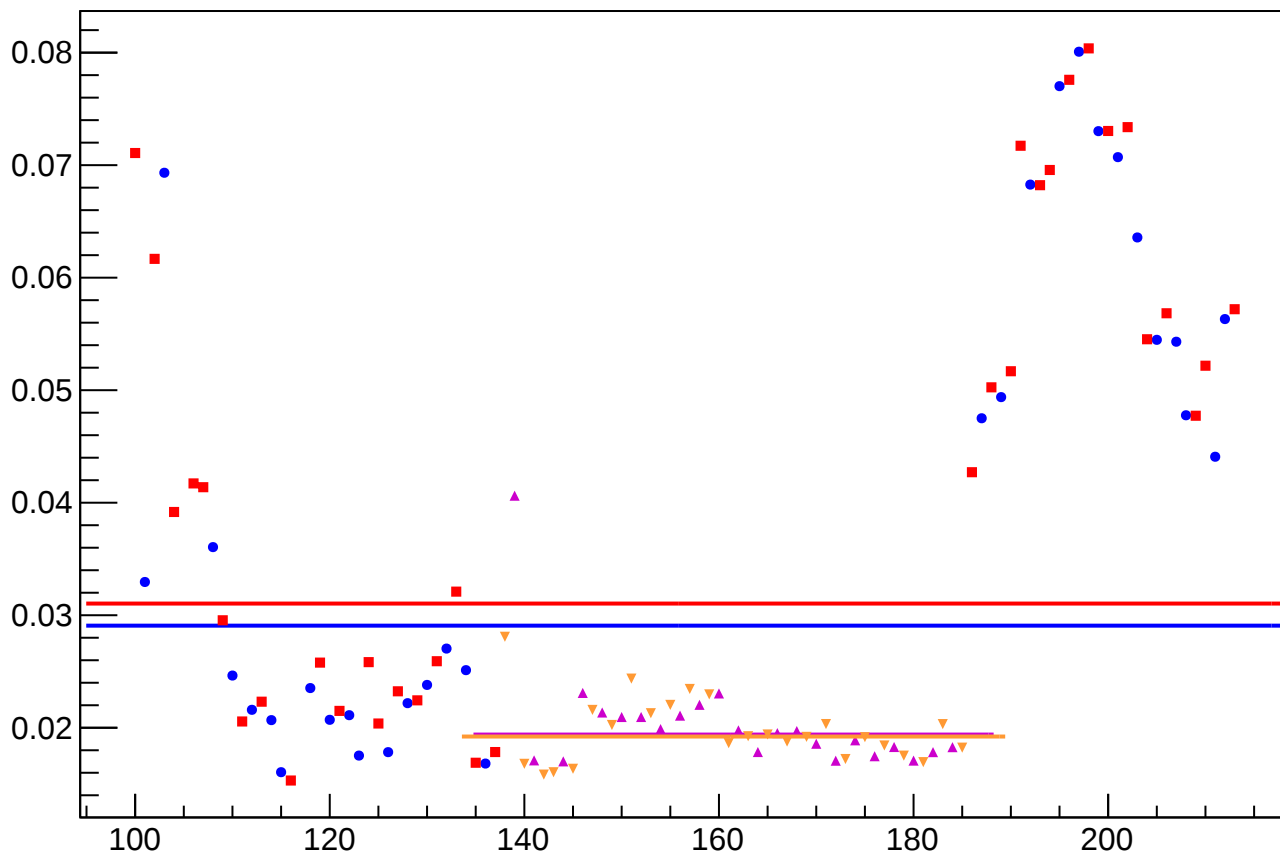
Left In: -0.450 ± 0.000 χ^2/NDF : 76117957.8/22

+ sign -0.484 ± 0.000 χ^2/NDF : 273123090.3/54

All: -0.482 ± 0.000 χ^2/NDF : 570976423.4/11

- sign -0.480 ± 0.000 χ^2/NDF : 297493801.6/56

yield_bpm4aX_rms vs Slug



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 6955478.1/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501711.6/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7178050.8/33

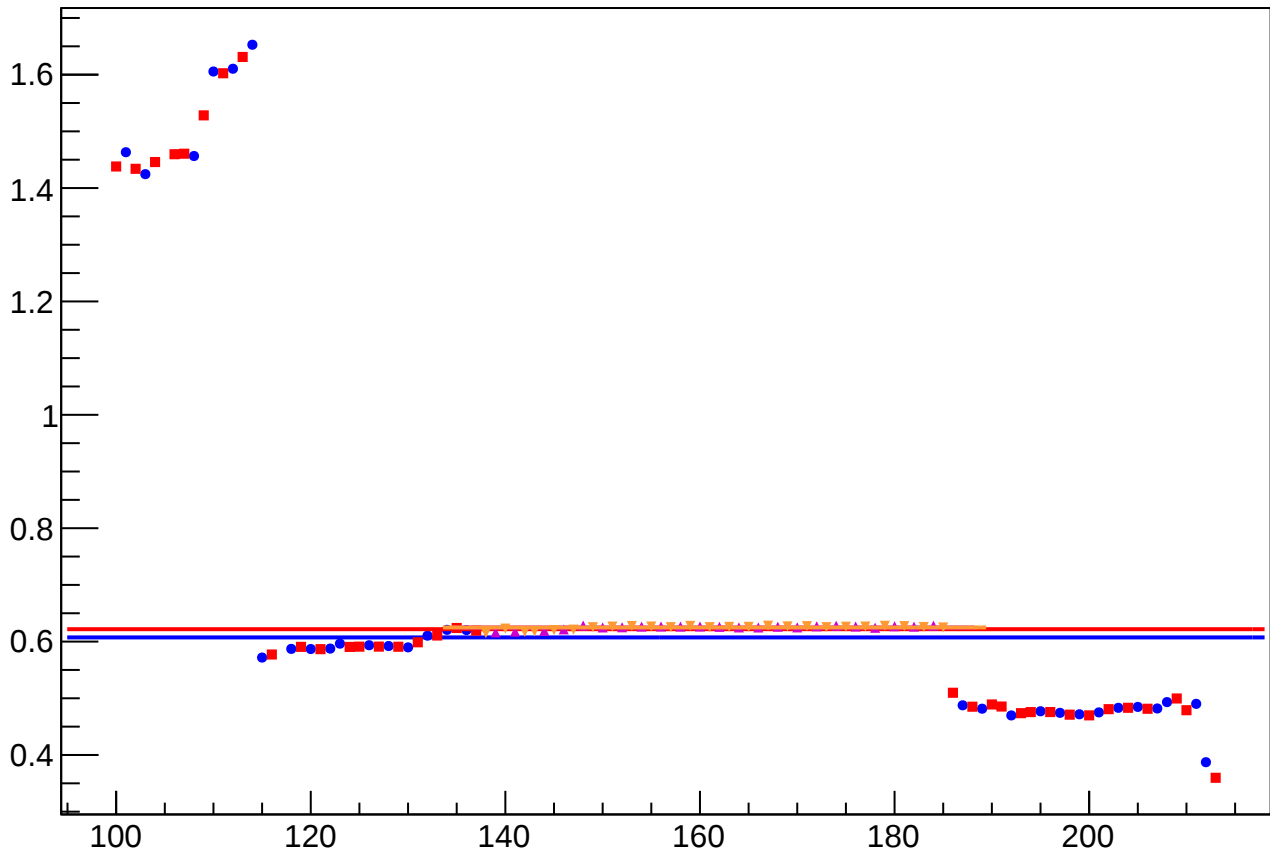
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:626443.5/22

+ sign 0.022 $\pm$ 0.000 χ^2 /NDF: 9377041.0/54

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 19760615.0/111

- sign 0.022 $\pm$ 0.000 χ^2 /NDF: 10357946.4/56

yield_bpm4aY_mean vs Slug



Right In: 0.607 $\pm$ 0.000 χ^2 /NDF: 5214636269.0/29

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.622 $\pm$ 0.000 χ^2 /NDF: 6321067552.2/33

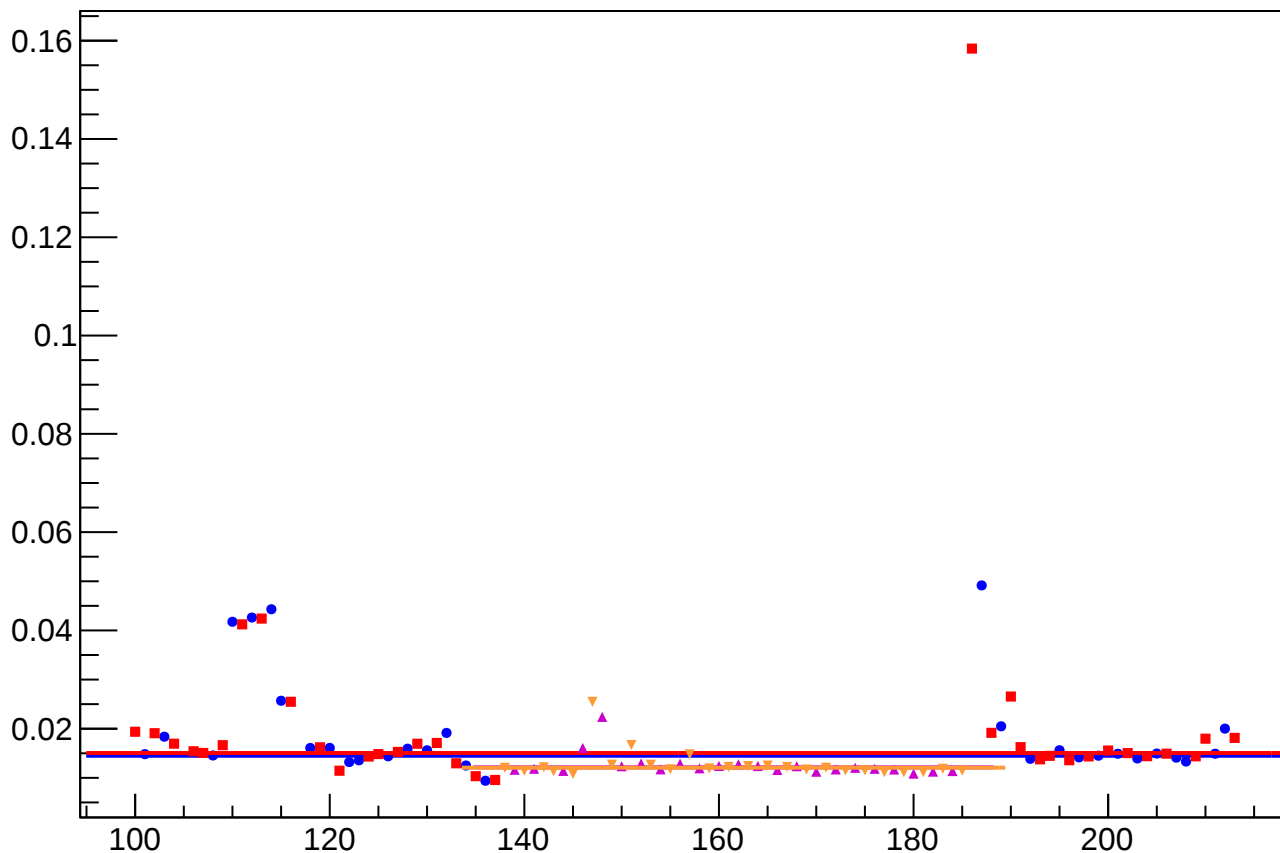
Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

+ sign 0.619 $\pm$ 0.000 χ^2 /NDF: 5229489890.7/54

All: 0.621 $\pm$ 0.000 χ^2 /NDF: 11554500363.6/1

- sign 0.624 $\pm$ 0.000 χ^2 /NDF: 6322578881.4/56

yield_bpm4aY_rms vs Slug



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1762189.8/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2162730.5/33

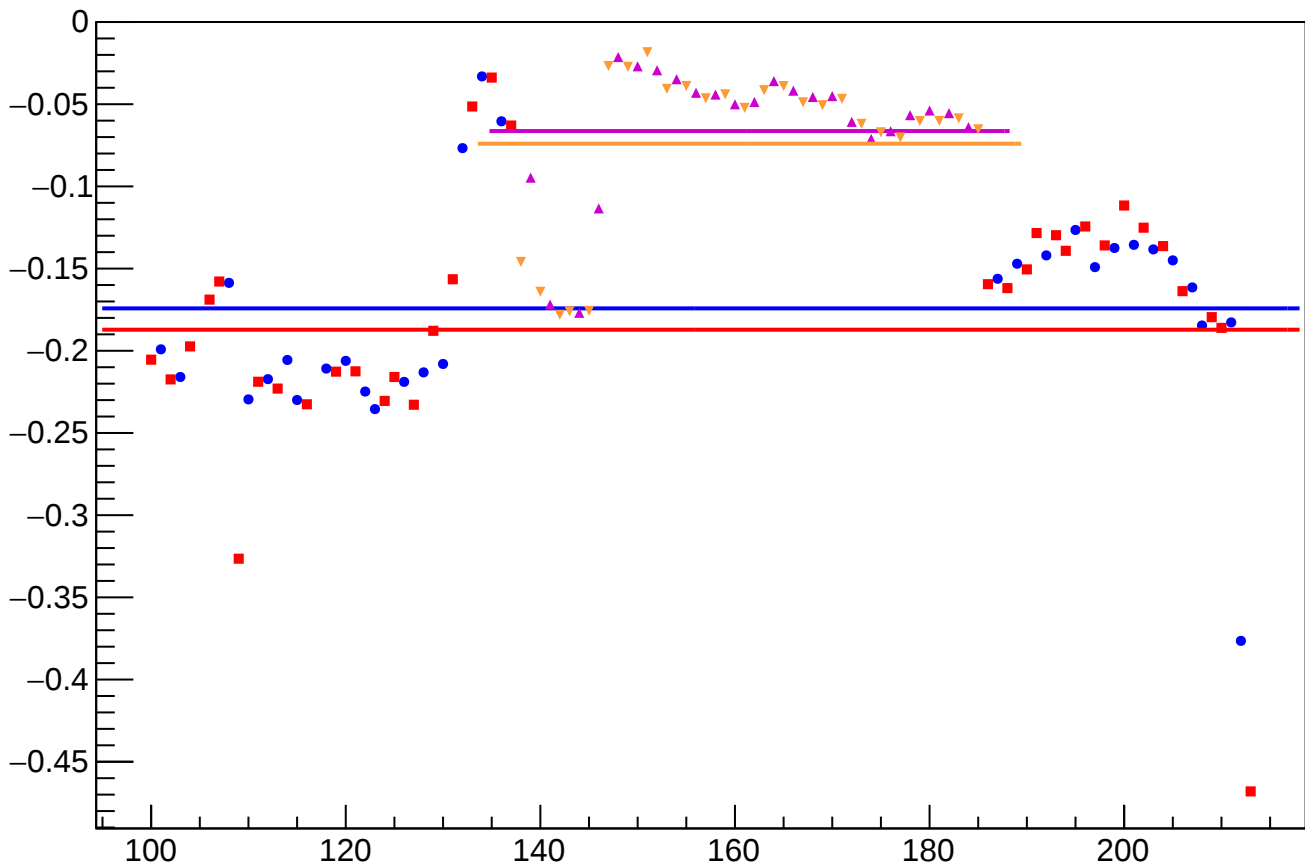
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2935904.2/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6322254.5/111

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 3371979.6/56

yield_bpm4eX_mean vs Slug



Right In: -0.174 ± 0.000 χ^2/NDF : 79267940.9/29

Left Out: -0.074 ± 0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.187 ± 0.000 χ^2/NDF : 106646484.8/33

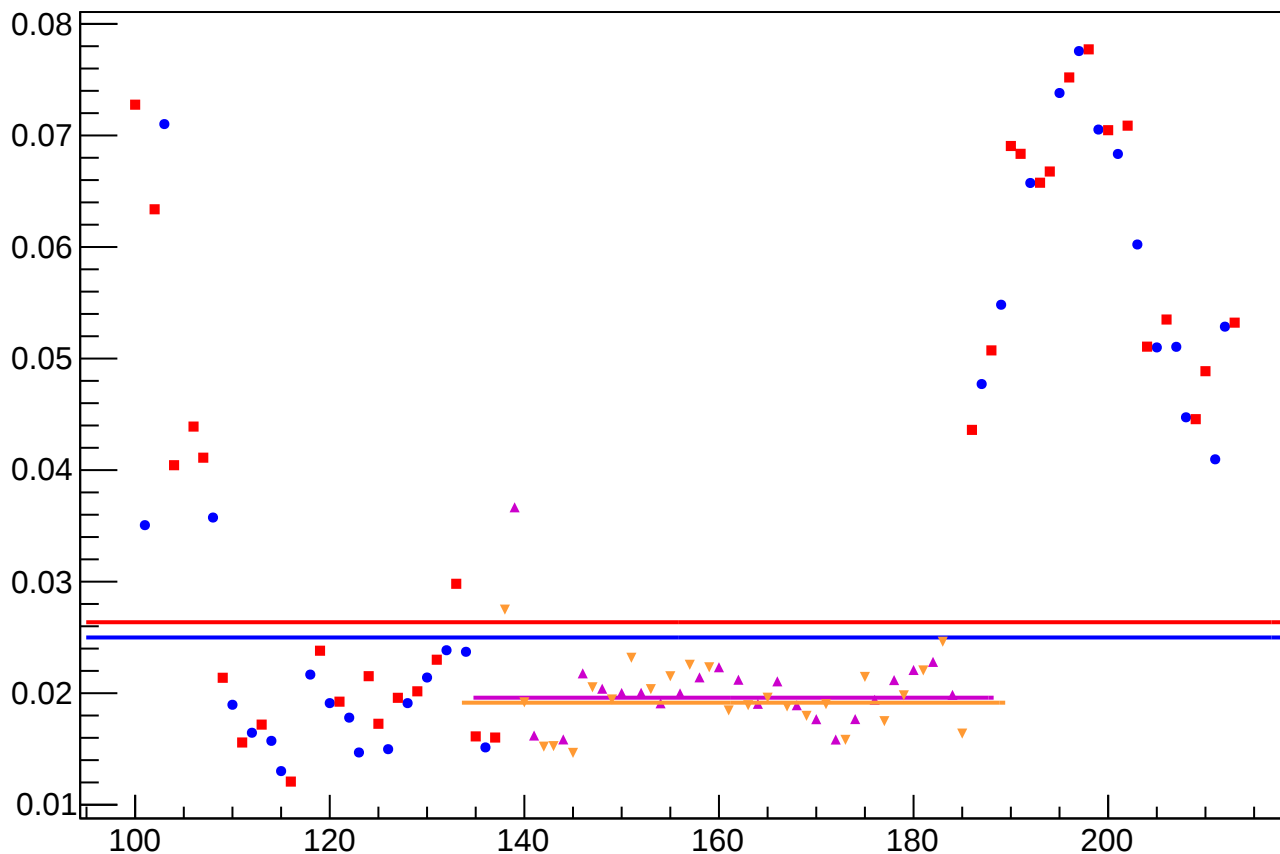
Left In: -0.066 ± 0.000 χ^2/NDF : 76243051.8/22

+ sign -0.103 ± 0.000 χ^2/NDF : 306770526.1/54

All: -0.103 ± 0.000 χ^2/NDF : 655628878.4/11

- sign -0.103 ± 0.000 χ^2/NDF : 348857240.8/56

yield_bpm4eX_rms vs Slug



Right In: 0.025 $\pm$ 0.000 χ^2 /NDF: 8138006.1/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 8762430.9/33

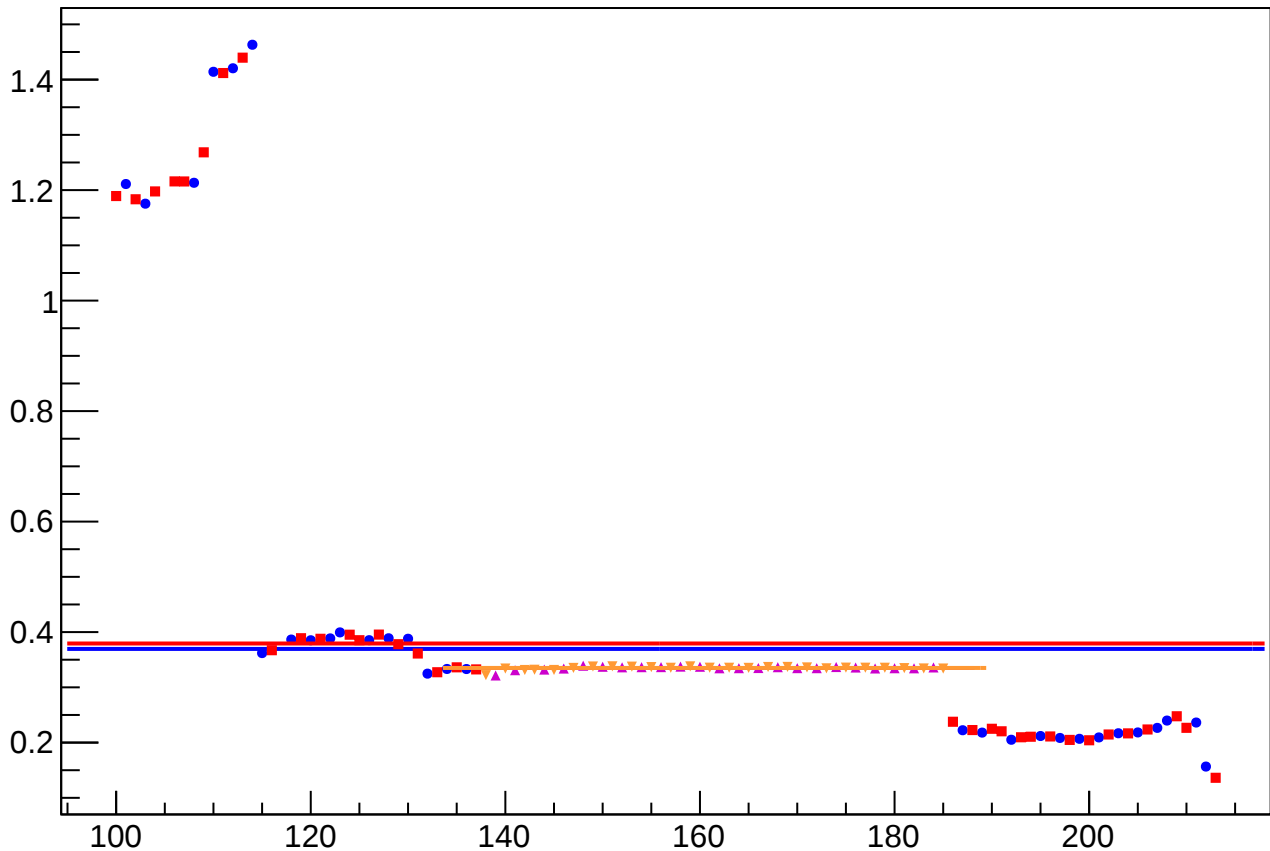
Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:623148.2/22

+ sign 0.021 $\pm$ 0.000 χ^2 /NDF: 9595543.0/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 20058902.9/111

- sign 0.022 $\pm$ 0.000 χ^2 /NDF: 10425884.3/56

yield_bpm4eY_mean vs Slug



Right In: 0.370+/-0.000 χ^2/NDF : 7658862500.1/29

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.379+/-0.000 χ^2/NDF : 8819507193.5/33

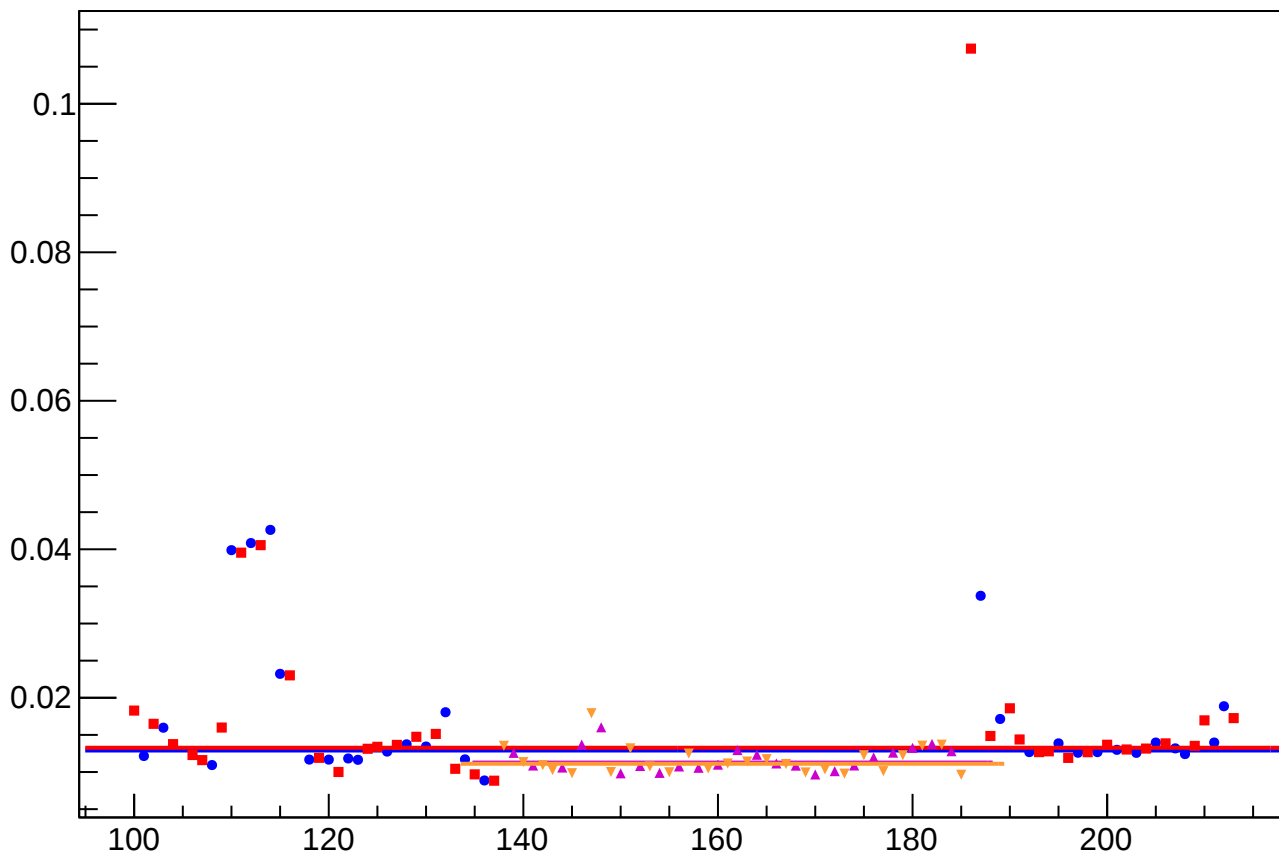
Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

+ sign 0.348+/-0.000 χ^2/NDF : 7723588411.0/54

All: 0.350+/-0.000 χ^2/NDF : 16648796072.6/100

- sign 0.353+/-0.000 χ^2/NDF : 8922837764.6/56

yield_bpm4eY_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 1683088.1/29

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2094321.5/33

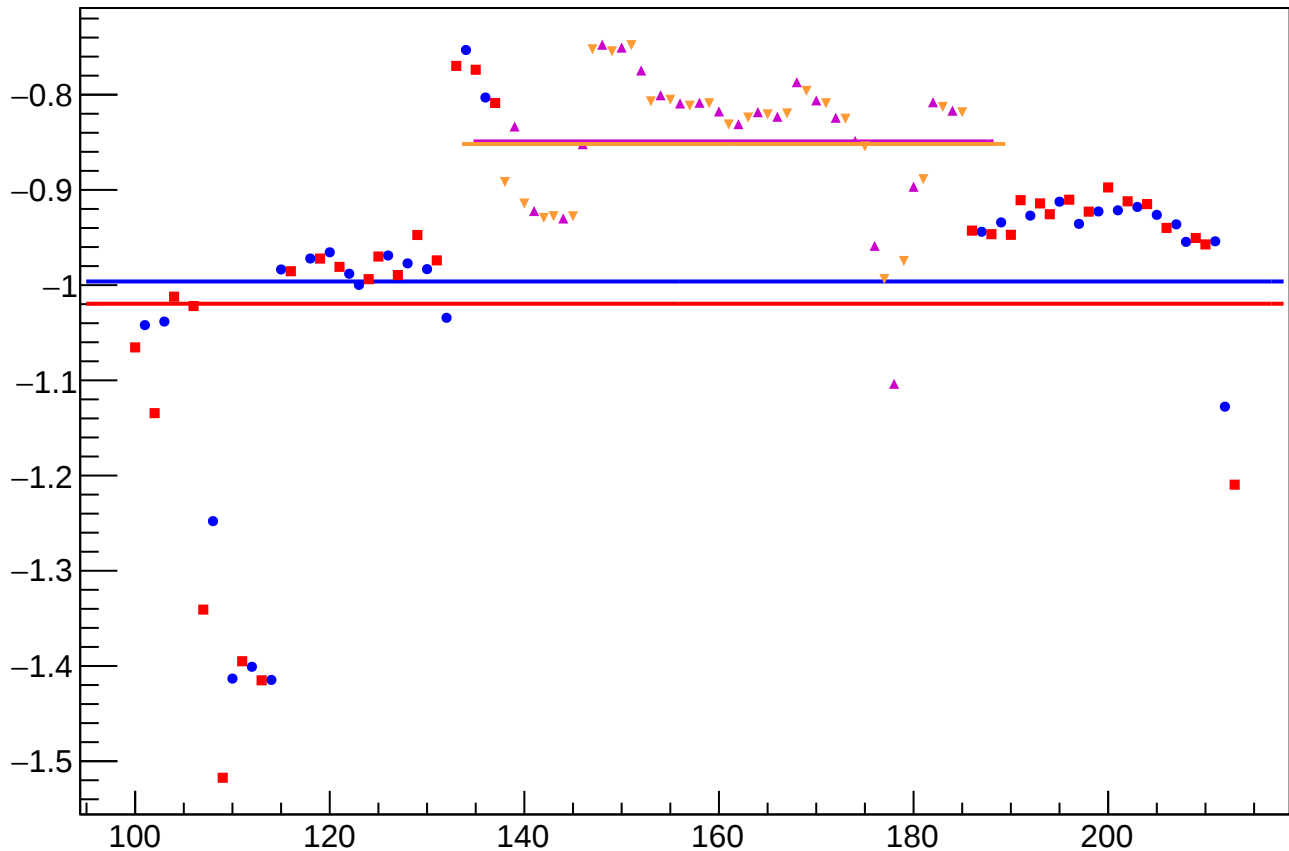
Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

+ sign 0.012+/-0.000 χ^2/NDF : 2632713.9/54

All: 0.012+/-0.000 χ^2/NDF : 5661697.4/111

- sign 0.012+/-0.000 χ^2/NDF : 3011214.6/56

yield_bpm4acX_mean vs Slug



Right In: -0.996 ± 0.000 $\chi^2/\text{NDF}: 409009865.4/29$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.020 ± 0.000 $\chi^2/\text{NDF}: 568645599.1/33$

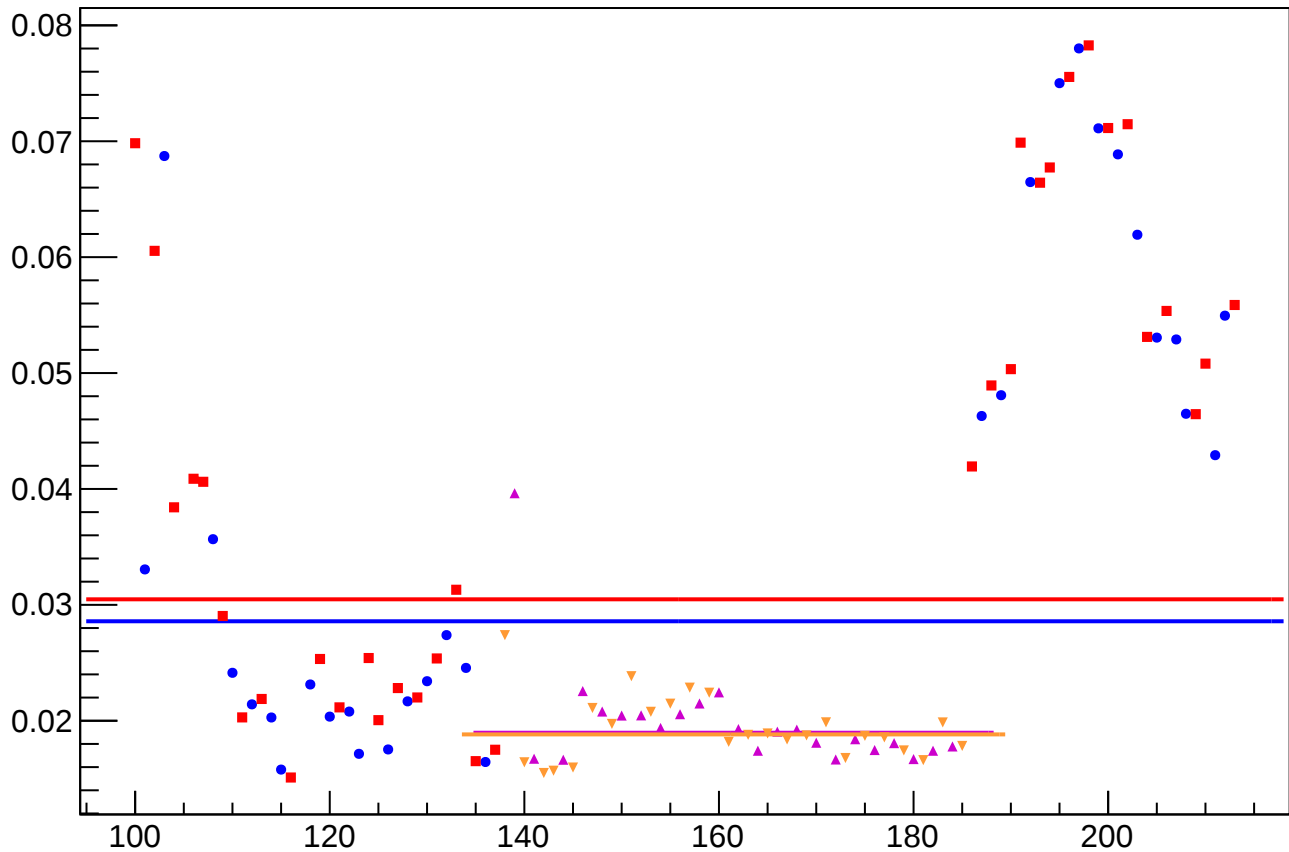
Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

+ sign -0.887 ± 0.000 $\chi^2/\text{NDF}: 812216388.6/54$

All: -0.890 ± 0.000 $\chi^2/\text{NDF}: 1922811698.6/1$

- sign -0.892 ± 0.000 $\chi^2/\text{NDF}: 1109927638.7/56$

yield_bpm4acX_rms vs Slug



Right In: 0.029 $\pm$ 0.000 χ^2/NDF : 6900397.5/29

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 490509.4/24

Right Out: 0.030 $\pm$ 0.000 χ^2/NDF : 7099703.1/33

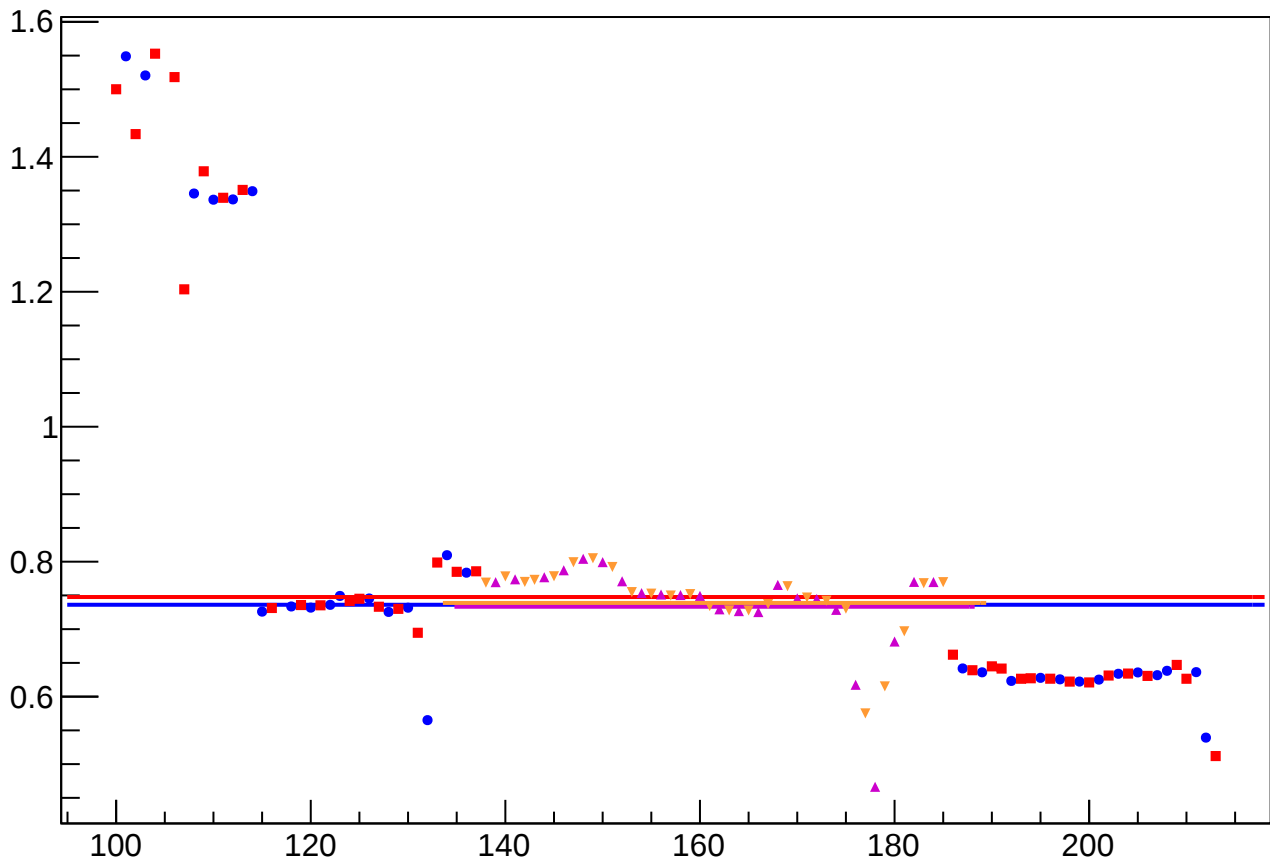
Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 615173.8/22

+ sign 0.021 $\pm$ 0.000 χ^2/NDF : 9347050.0/54

All: 0.022 $\pm$ 0.000 χ^2/NDF : 19683234.1/111

- sign 0.022 $\pm$ 0.000 χ^2/NDF : 10312968.1/56

yield_bpm4acY_mean vs Slug



Right In: 0.736+/-0.000 χ^2/NDF : 3589451260.2/29

Left Out: 0.739+/-0.000 χ^2/NDF :333013236.5/24

Right Out: 0.748+/-0.000 χ^2/NDF : 3969360937.7/33

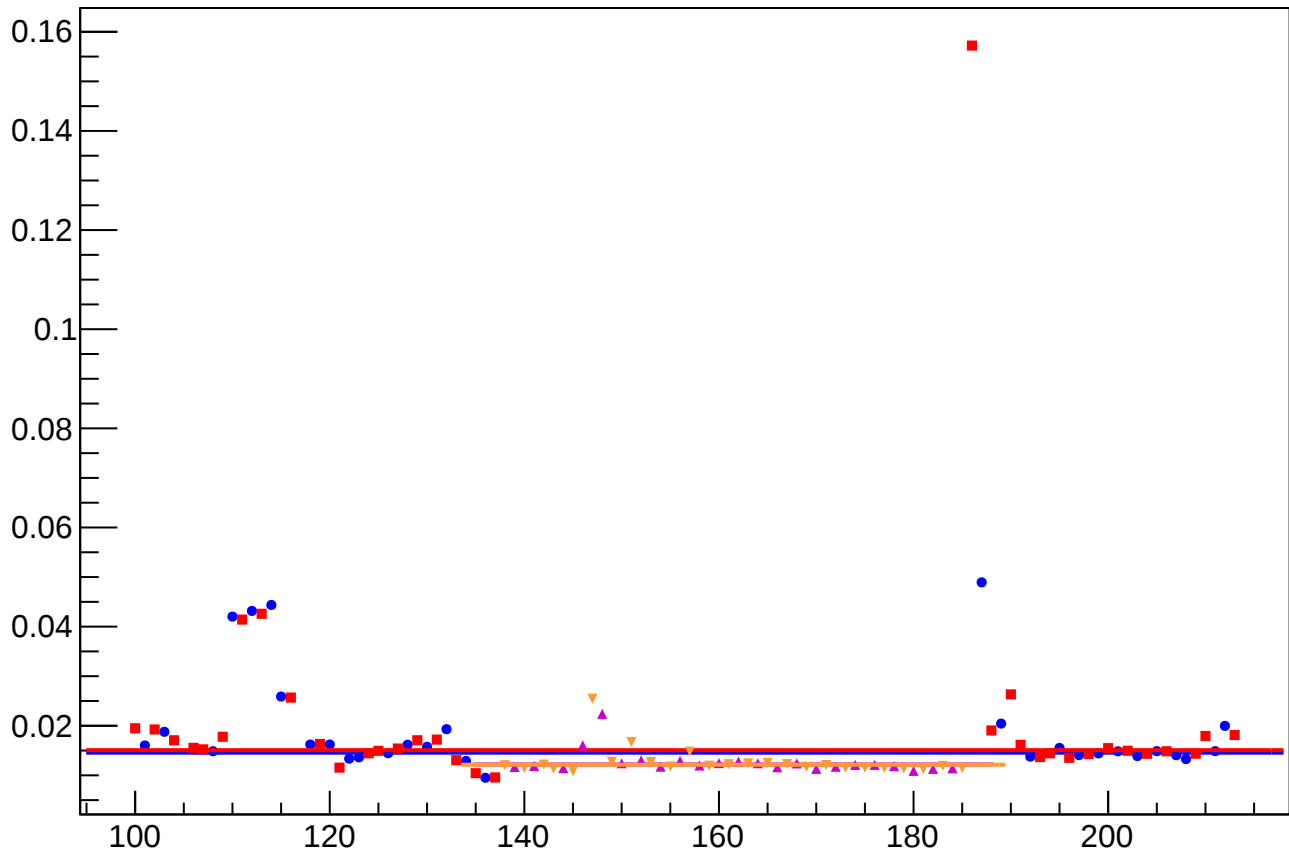
Left In: 0.733+/-0.000 χ^2/NDF :569611347.7/22

+ sign 0.738+/-0.000 χ^2/NDF : 3922779036.6/54

All: 0.738+/-0.000 χ^2/NDF : 8470529211.9/11

- sign 0.739+/-0.000 χ^2/NDF : 4547699169.8/56

yield_bpm4acY_rms vs Slug



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1760348.7/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2164625.9/33

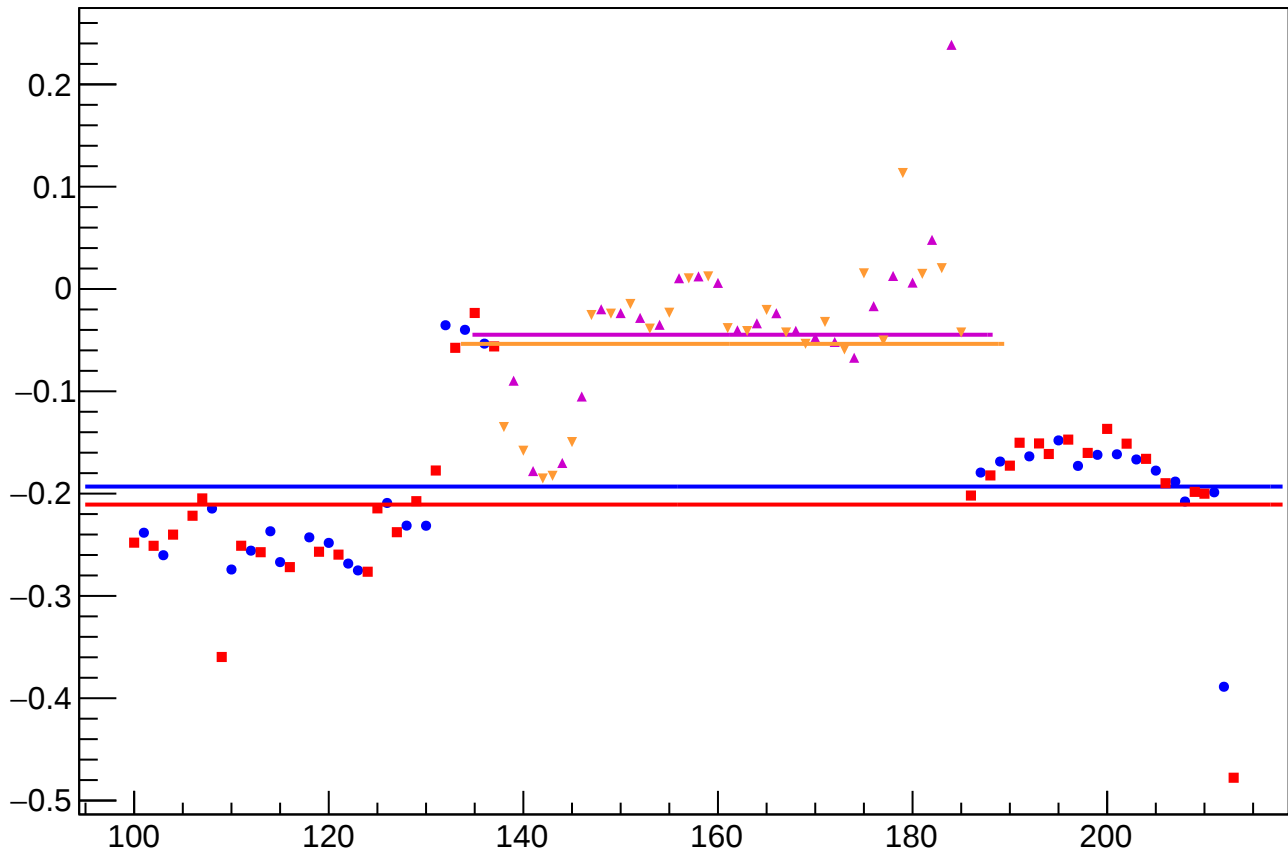
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2907171.3/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6266929.3/111

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 3347640.8/56

yield_bpm4ecX_mean vs Slug



Right In: -0.193+/-0.000 χ^2/NDF : 117133598.6/29

Left Out: -0.054+/-0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.211+/-0.000 χ^2/NDF : 132531792.0/33

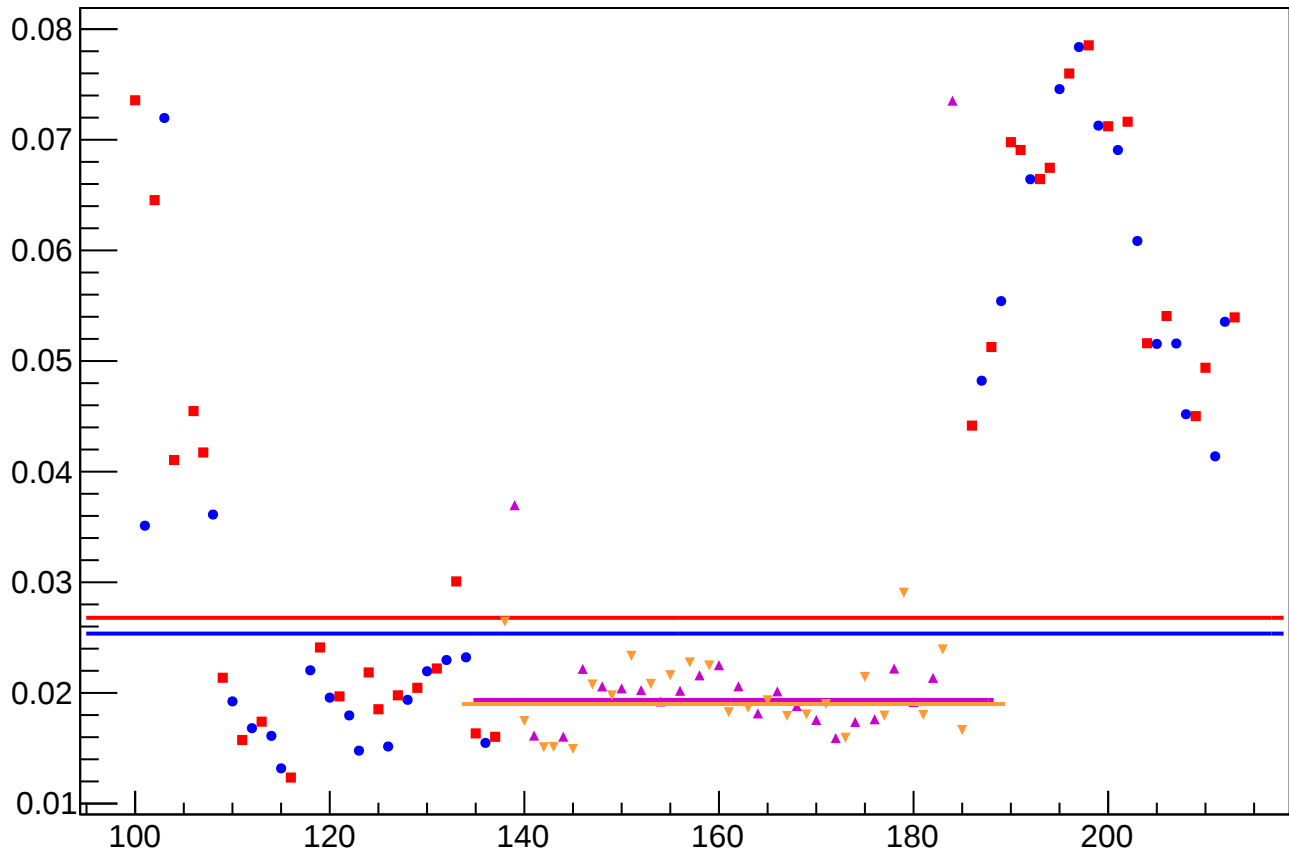
Left In: -0.045+/-0.000 χ^2/NDF : 127192425.2/22

+ sign -0.094+/-0.000 χ^2/NDF : 511818098.4/54

All: -0.094+/-0.000 χ^2/NDF : 1077570126.1/1

- sign -0.095+/-0.000 χ^2/NDF : 565734802.5/56

yield_bpm4ecX_rms vs Slug



Right In: 0.025 $\pm$ 0.000 χ^2 /NDF: 8075961.8/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 8705642.4/33

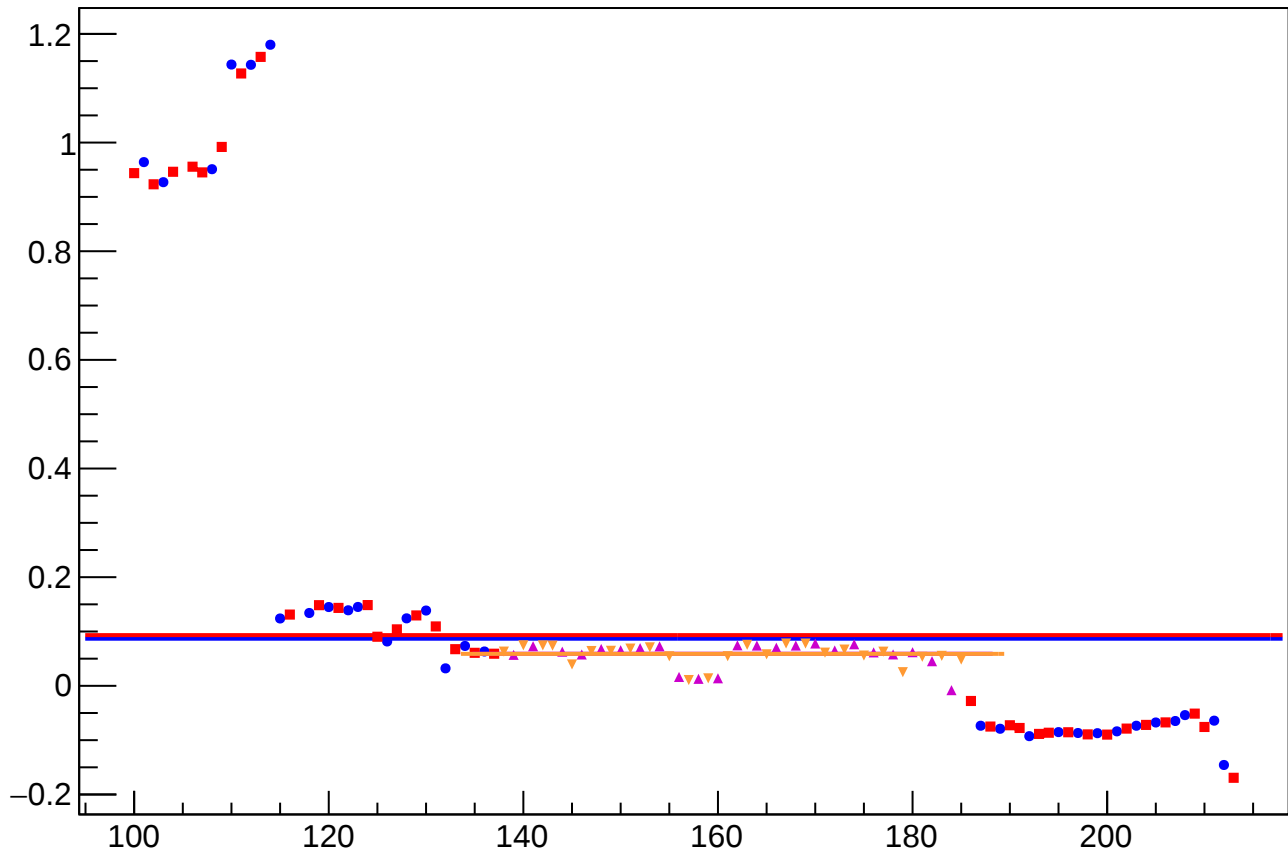
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

+ sign 0.021 $\pm$ 0.000 χ^2 /NDF: 9721753.6/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 20542748.2/111

- sign 0.022 $\pm$ 0.000 χ^2 /NDF: 10788778.7/56

yield_bpm4ecY_mean vs Slug



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 8309363790.2/29

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 9346745732.7/33

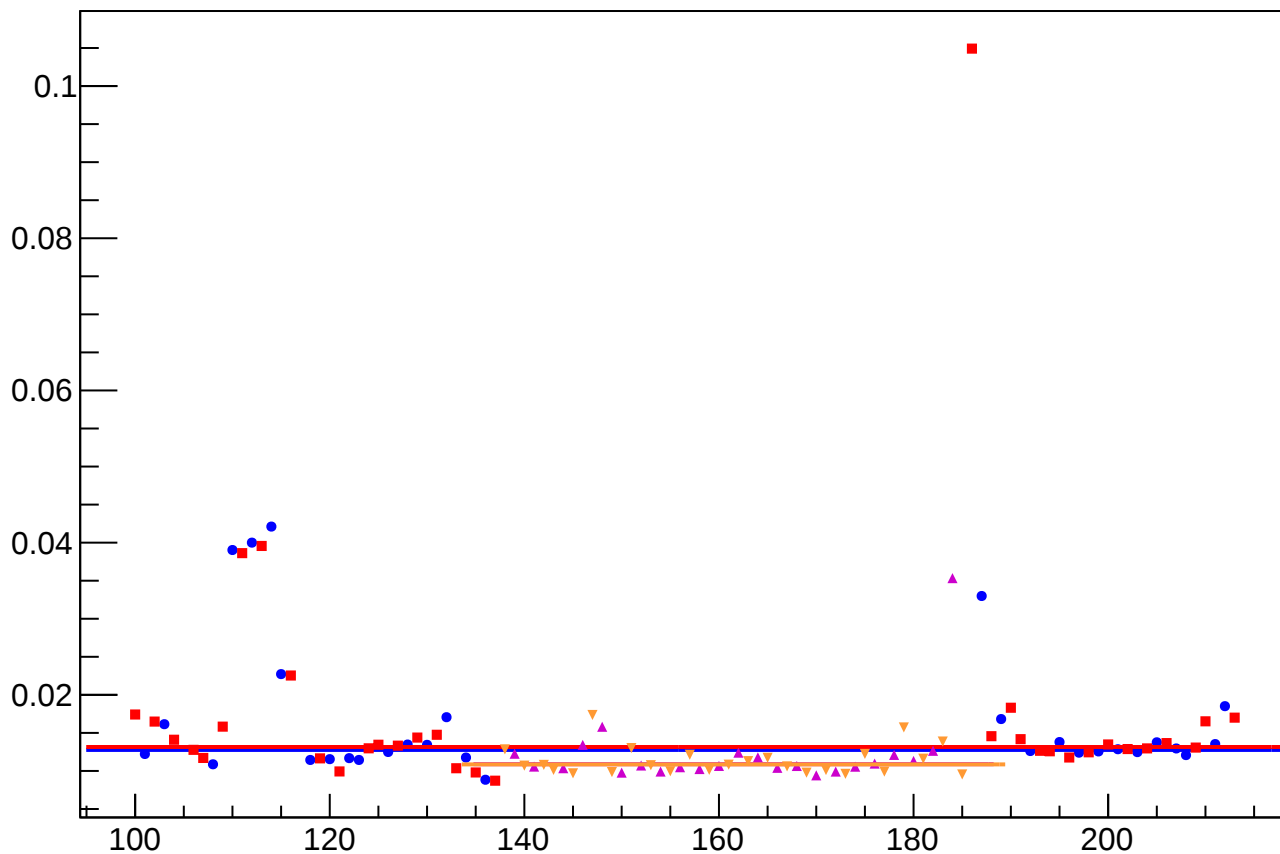
Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

+ sign 0.069 $\pm$ 0.000 χ^2 /NDF: 8398725210.7/54

All: 0.071 $\pm$ 0.000 χ^2 /NDF: 17867964354.8/100

- sign 0.073 $\pm$ 0.000 χ^2 /NDF: 9468113408.1/56

yield_bpm4ecY_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 1639137.5/29

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2036025.8/33

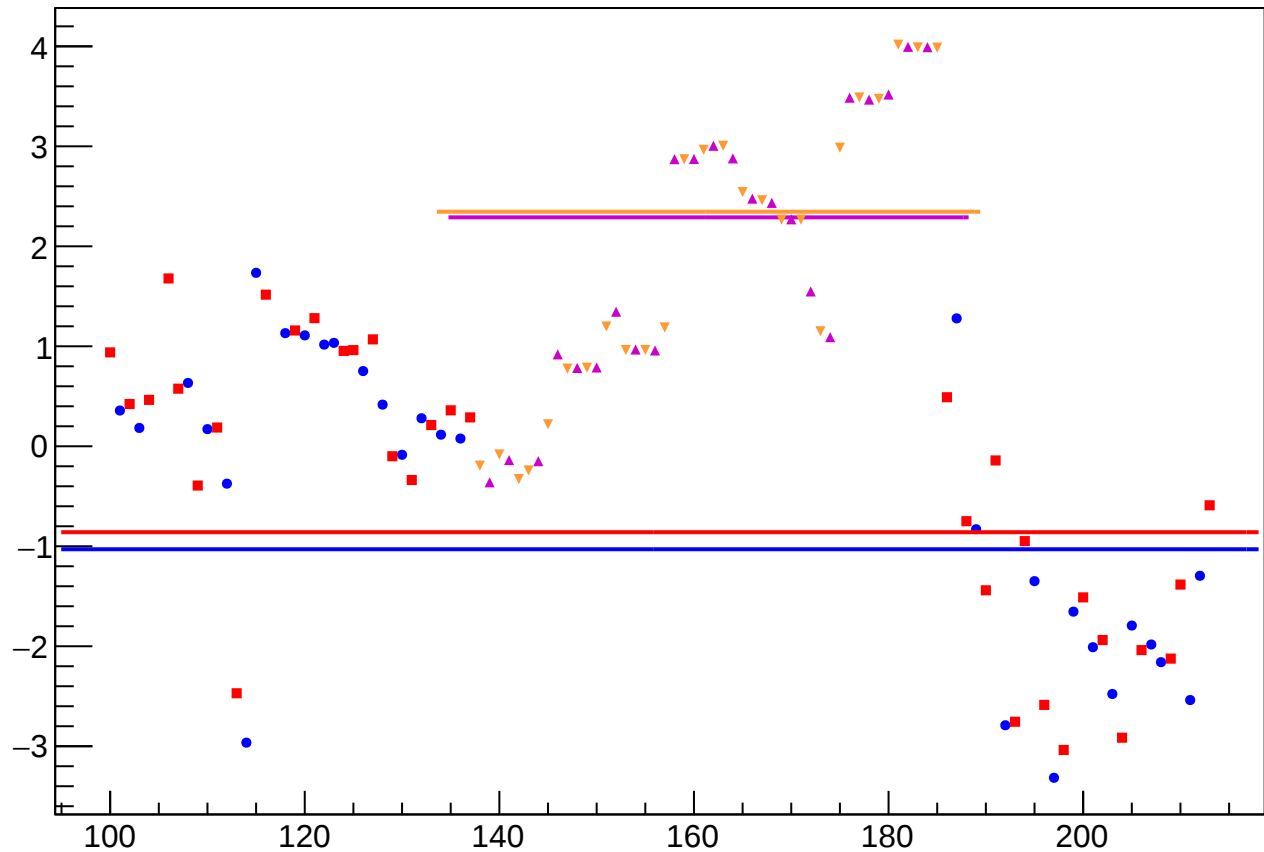
Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

+ sign 0.012+/-0.000 χ^2/NDF : 2639319.9/54

All: 0.012+/-0.000 χ^2/NDF : 5758323.2/111

- sign 0.012+/-0.000 χ^2/NDF : 3110202.1/56

yield_bpm1X_mean vs Slug



Right In: -1.030+/-0.000 χ^2/NDF : 7684082939.3/29

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.859+/-0.000 χ^2/NDF : 8182386545.8/33

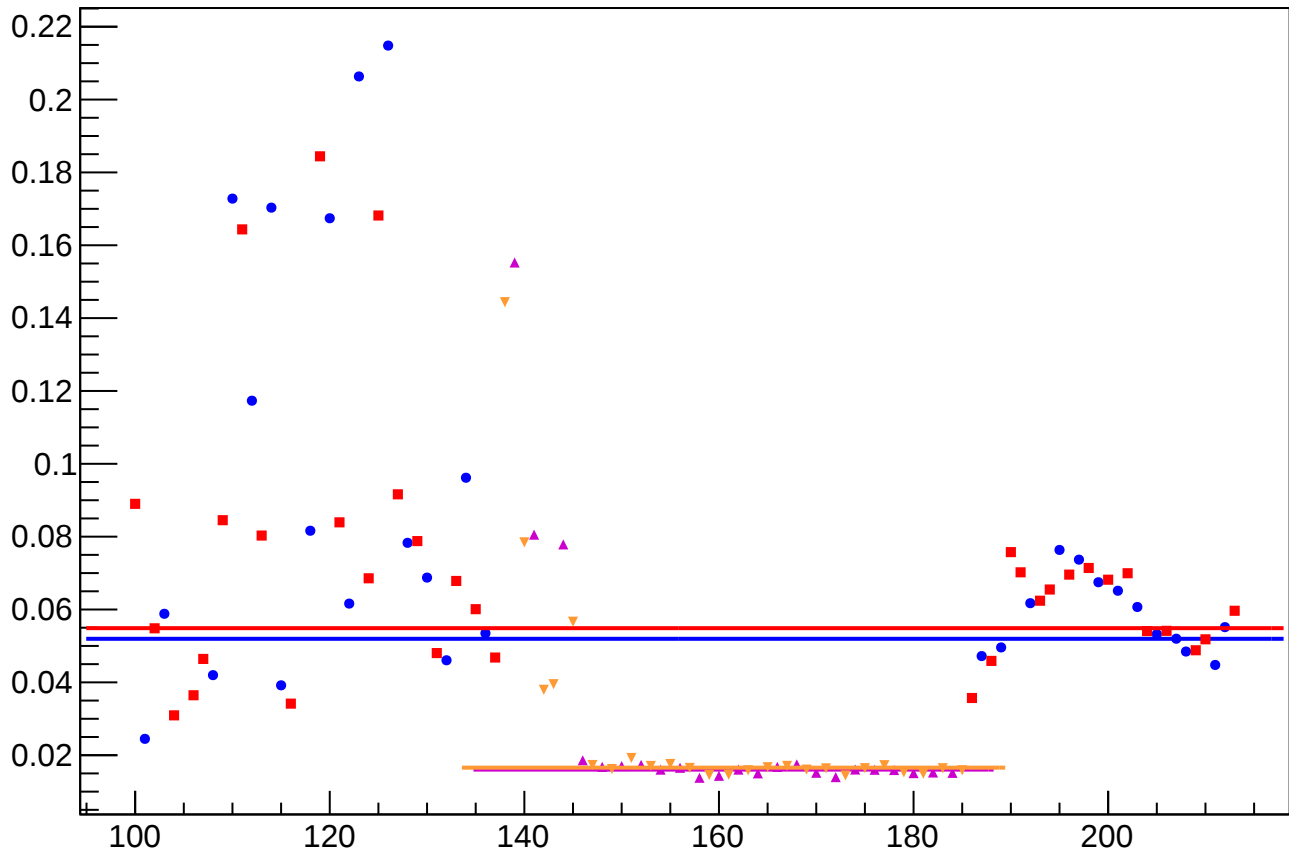
Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

+ sign 2.076+/-0.000 χ^2/NDF : 117583449329.1/54

All: 2.058+/-0.000 χ^2/NDF : 227273018487.8

- sign 2.041+/-0.000 χ^2/NDF : 109654923610.8/56

yield_bpm1X_rms vs Slug



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3551554.2/29

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2873225.3/33

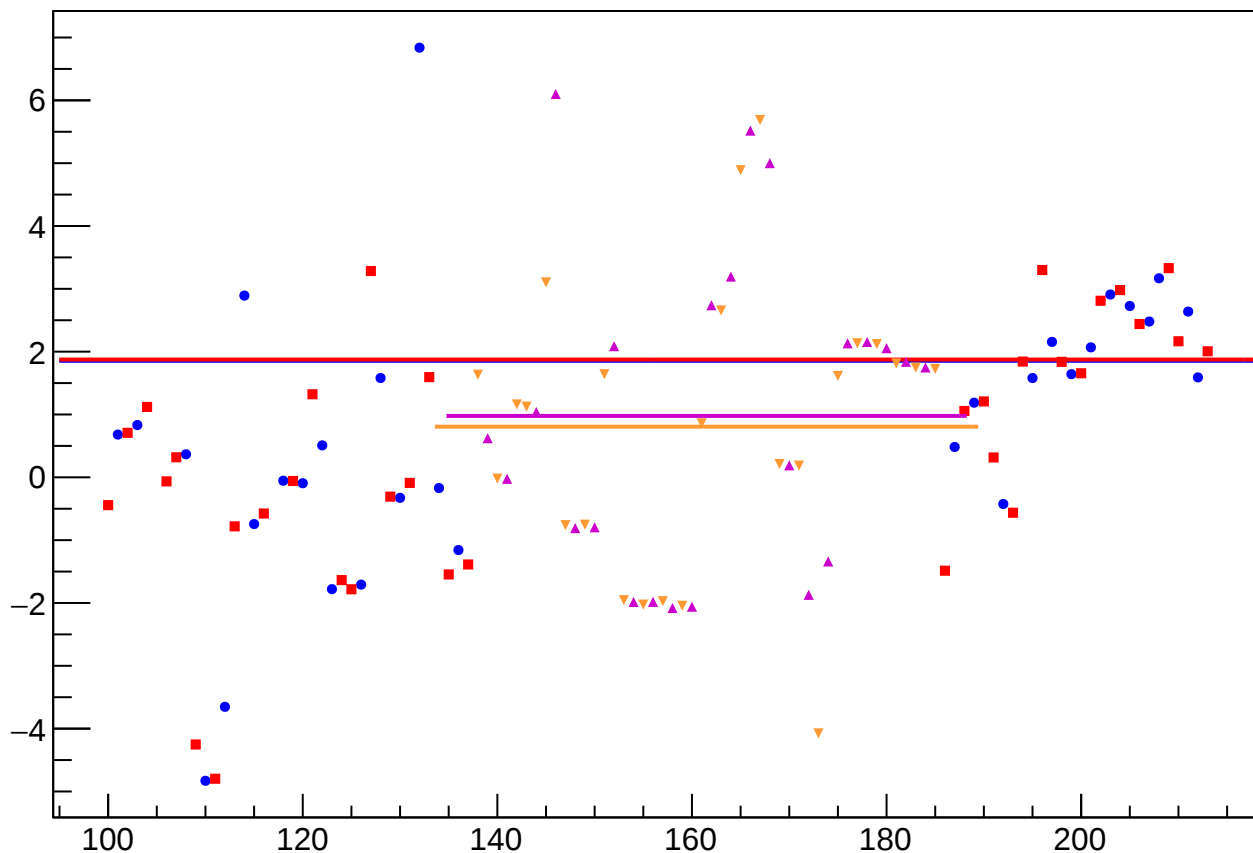
Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

+ sign 0.019 $\pm$ 0.000 χ^2 /NDF: 16364779.7/54

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 33984996.2/111

- sign 0.019 $\pm$ 0.000 χ^2 /NDF: 17615221.2/56

yield_bpm1Y_mean vs Slug



Right In: 1.855+/-0.000 χ^2/NDF : 38560672256.9/29

Left Out: 0.806+/-0.000 χ^2/NDF : 507578952196.2/24

Right Out: 1.874+/-0.000 χ^2/NDF : 39605561258.6/33

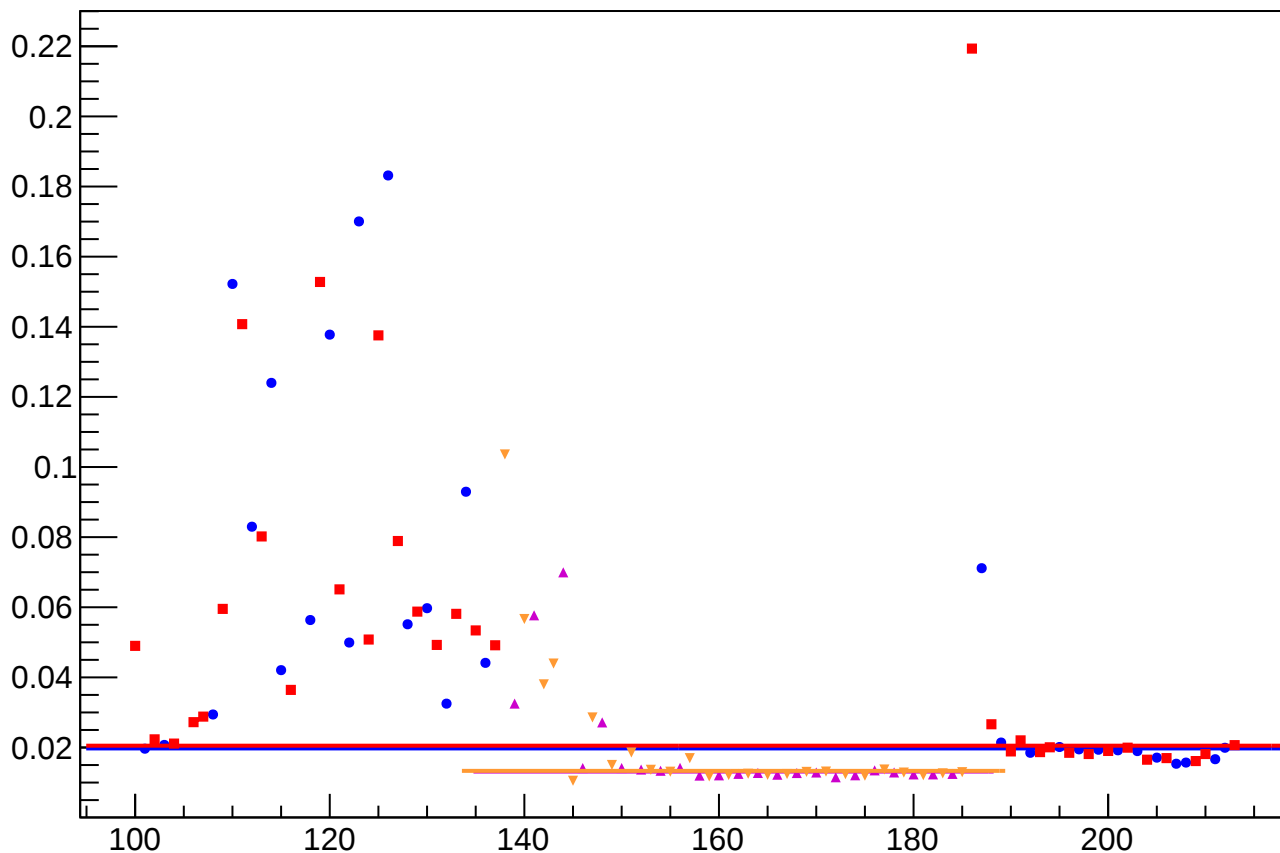
Left In: 0.977+/-0.000 χ^2/NDF : 568209676597.4/22

+ sign 1.065+/-0.000 χ^2/NDF : 569196811308.5/54

All: 1.131+/-0.000 χ^2/NDF : 1194822847669.

- sign 1.198+/-0.000 χ^2/NDF : 624632634094.4/56

yield_bpm1Y_rms vs Slug



Right In: 0.020+/-0.000 χ^2/NDF : 4196224.7/29

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167049.8/33

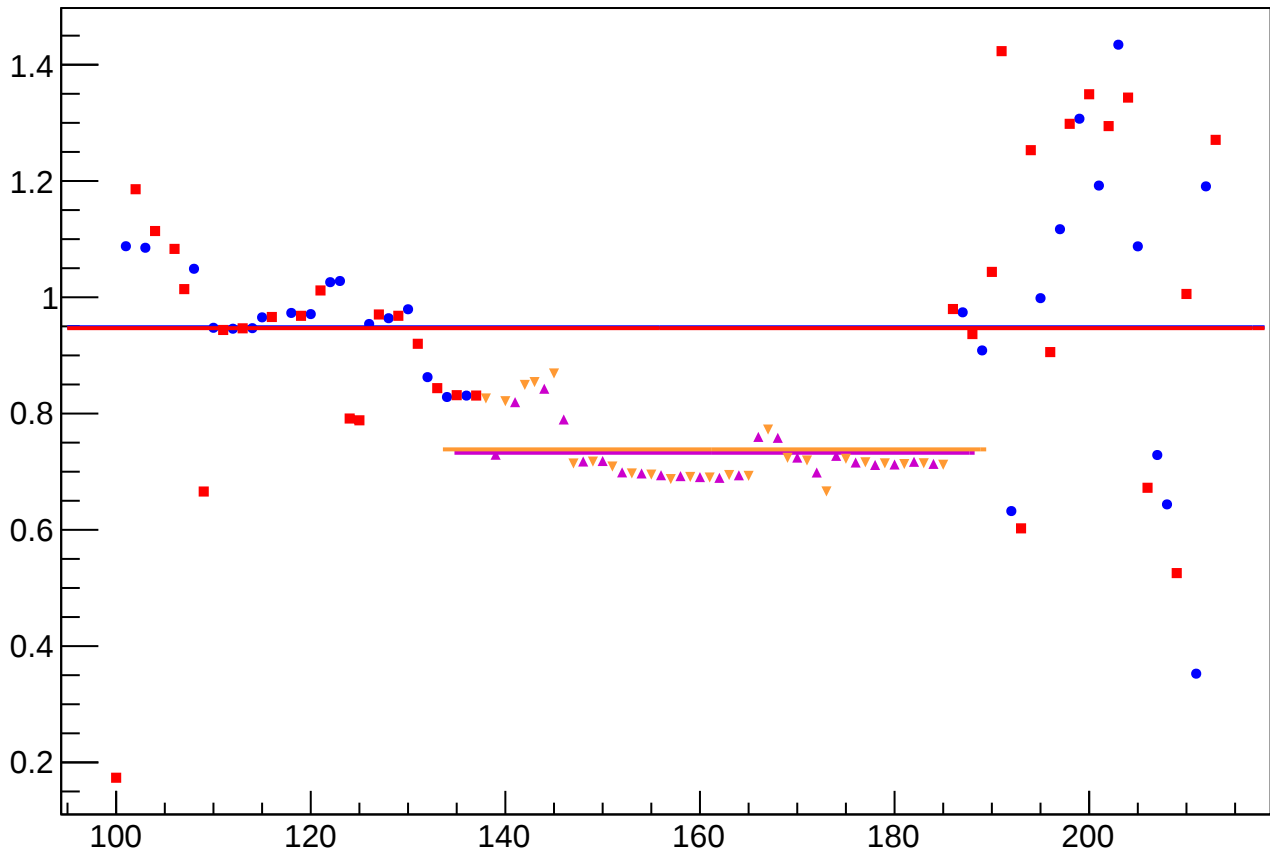
Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

+ sign 0.015+/-0.000 χ^2/NDF : 8741223.5/54

All: 0.015+/-0.000 χ^2/NDF : 18133495.7/111

- sign 0.015+/-0.000 χ^2/NDF : 9392152.2/56

yield_bpm11X_mean vs Slug



Right In: 0.948 $\pm$ 0.000 χ^2 /NDF: 910395610.3/29

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310195180.4/24

+ sign 0.804 $\pm$ 0.000 χ^2 /NDF: 2405279833.8/54

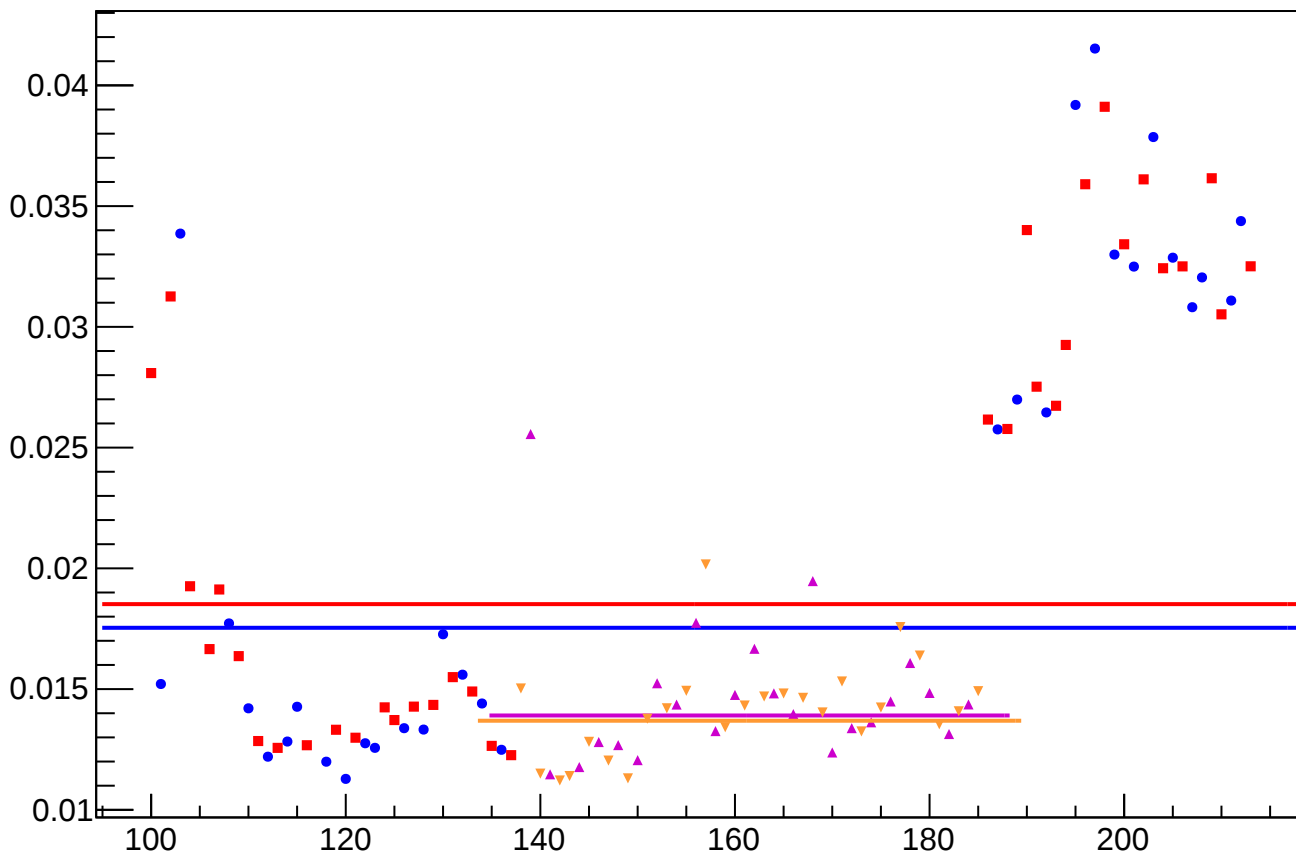
Right Out: 0.947 $\pm$ 0.000 χ^2 /NDF: 1201270257.7/33

All: 0.803 $\pm$ 0.000 χ^2 /NDF: 4977770446.4/11

- sign 0.803 $\pm$ 0.000 χ^2 /NDF: 2572431814.8/56

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

yield_bpm11X_rms vs Slug



Right In: 0.018+/-0.000 χ^2/NDF : 5153894.4/29

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 4789479.3/33

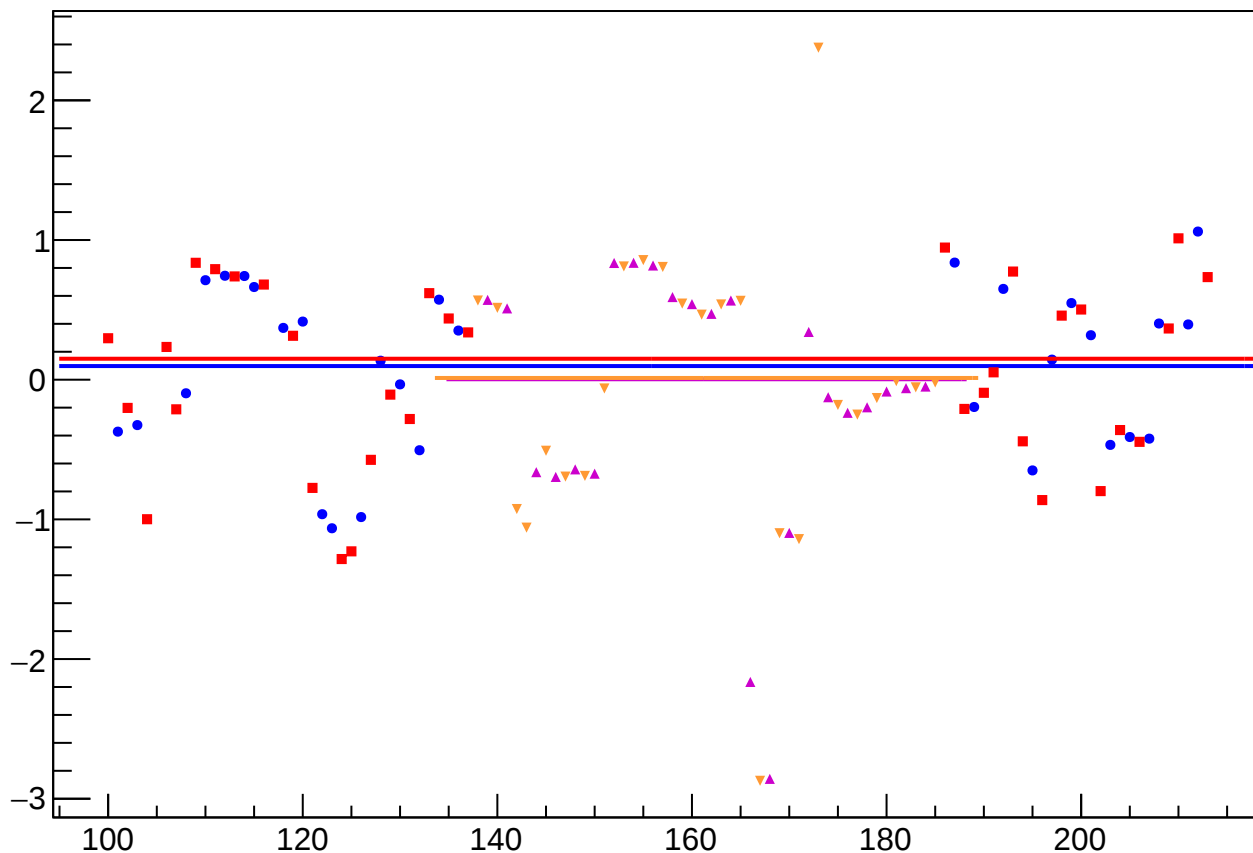
Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

+ sign 0.015+/-0.000 χ^2/NDF : 6477753.6/54

All: 0.015+/-0.000 χ^2/NDF : 13181677.5/111

- sign 0.015+/-0.000 χ^2/NDF : 6669655.3/56

yield_bpm11Y_mean vs Slug



Right In: 0.098 $\pm$ 0.000 χ^2 /NDF: 28147605209.5/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.150 $\pm$ 0.000 χ^2 /NDF: 40764385031.3/33

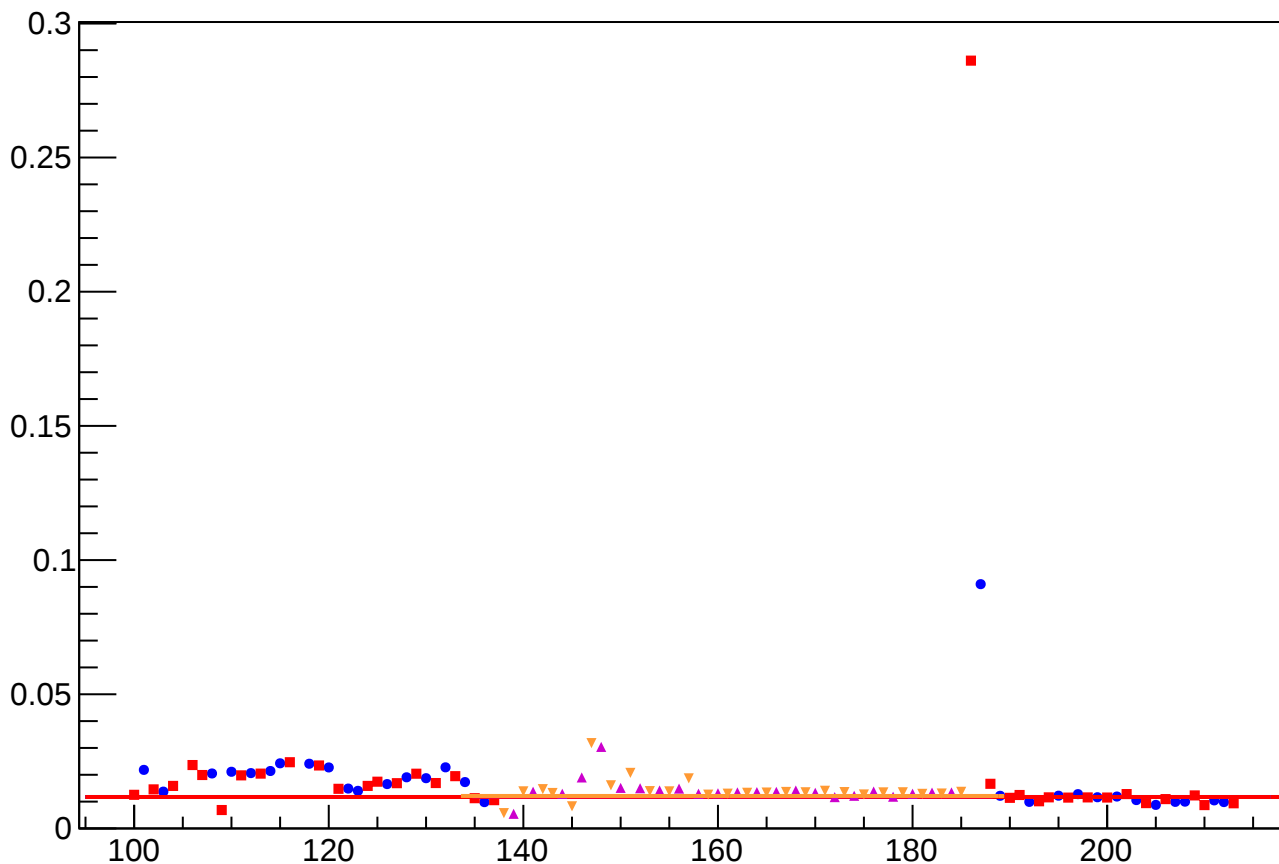
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

+ sign 0.052 $\pm$ 0.000 χ^2 /NDF: 124903018197.9/54

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 245664151018.6

- sign 0.076 $\pm$ 0.000 χ^2 /NDF: 120704919169.8/56

yield_bpm11Y_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2437564.6/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 2968421.2/33

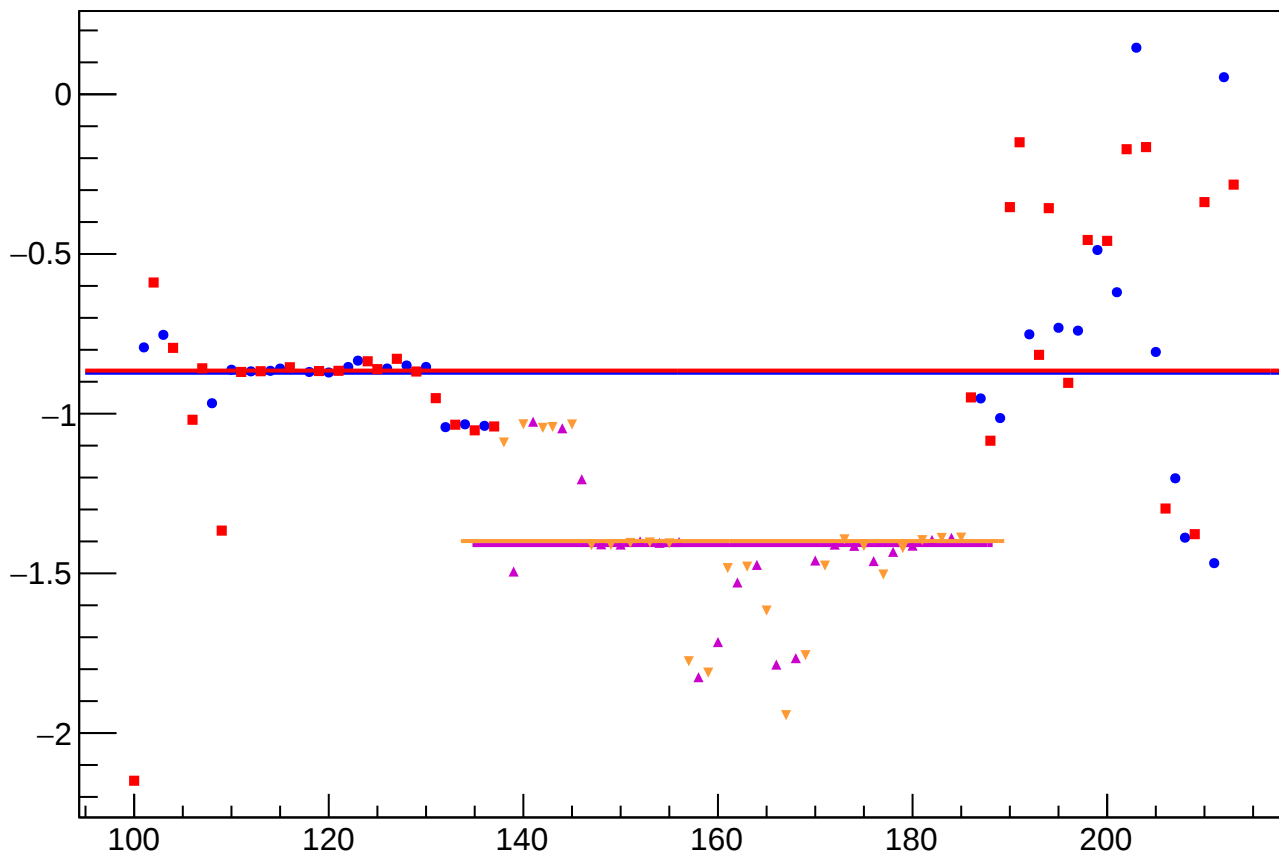
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 5557597.8/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 11538346.5/111

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 5979813.8/56

yield_bpm12X_mean vs Slug



Right In: -0.872+/-0.000 χ^2/NDF : 339722548.2/29

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.865+/-0.000 χ^2/NDF : 482626288.6/33

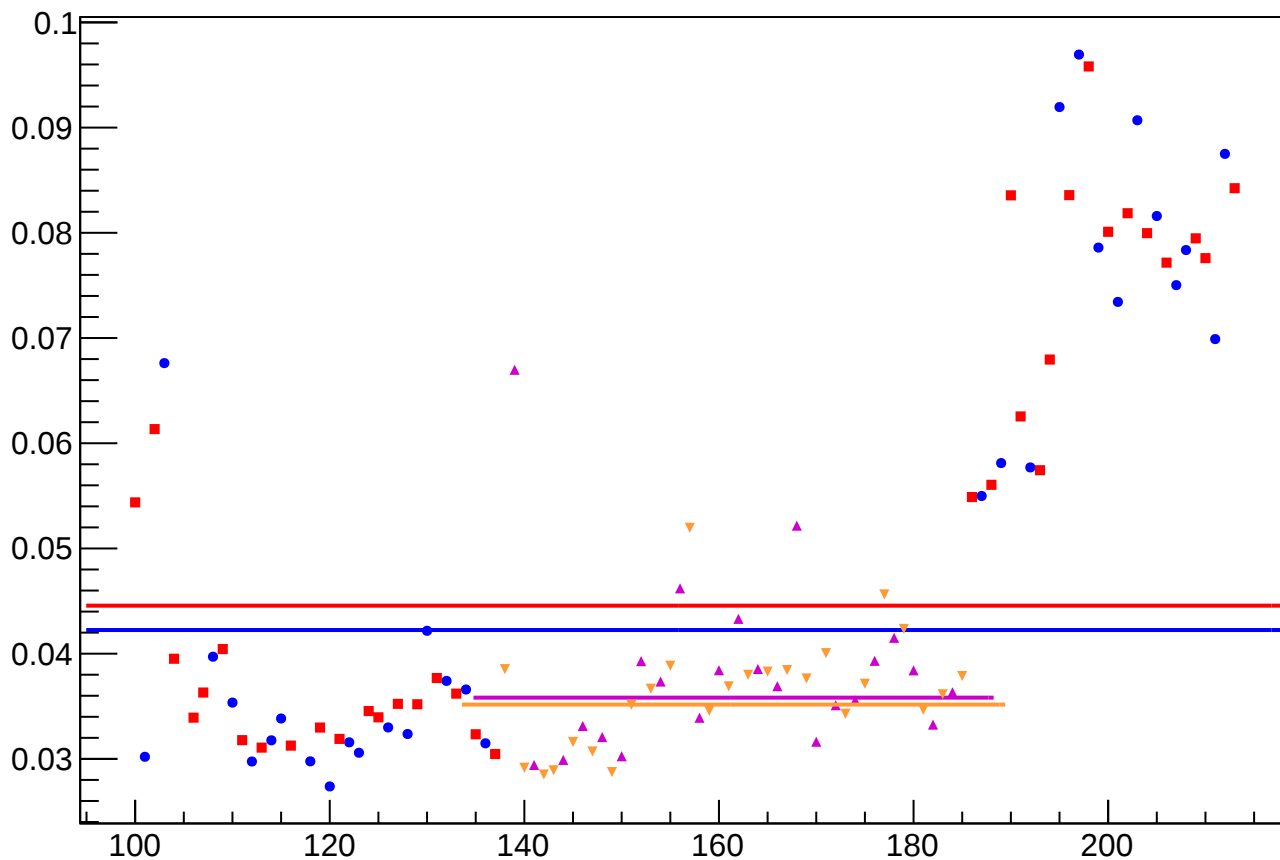
Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

+ sign -1.216+/-0.000 χ^2/NDF : 2327310131.3/54

All: -1.214+/-0.000 χ^2/NDF : 4620561866.8/1

- sign -1.212+/-0.000 χ^2/NDF : 2293093466.1/56

yield_bpm12X_rms vs Slug



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 4892916.1/29

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.045 $\pm$ 0.000 χ^2 /NDF: 4353937.8/33

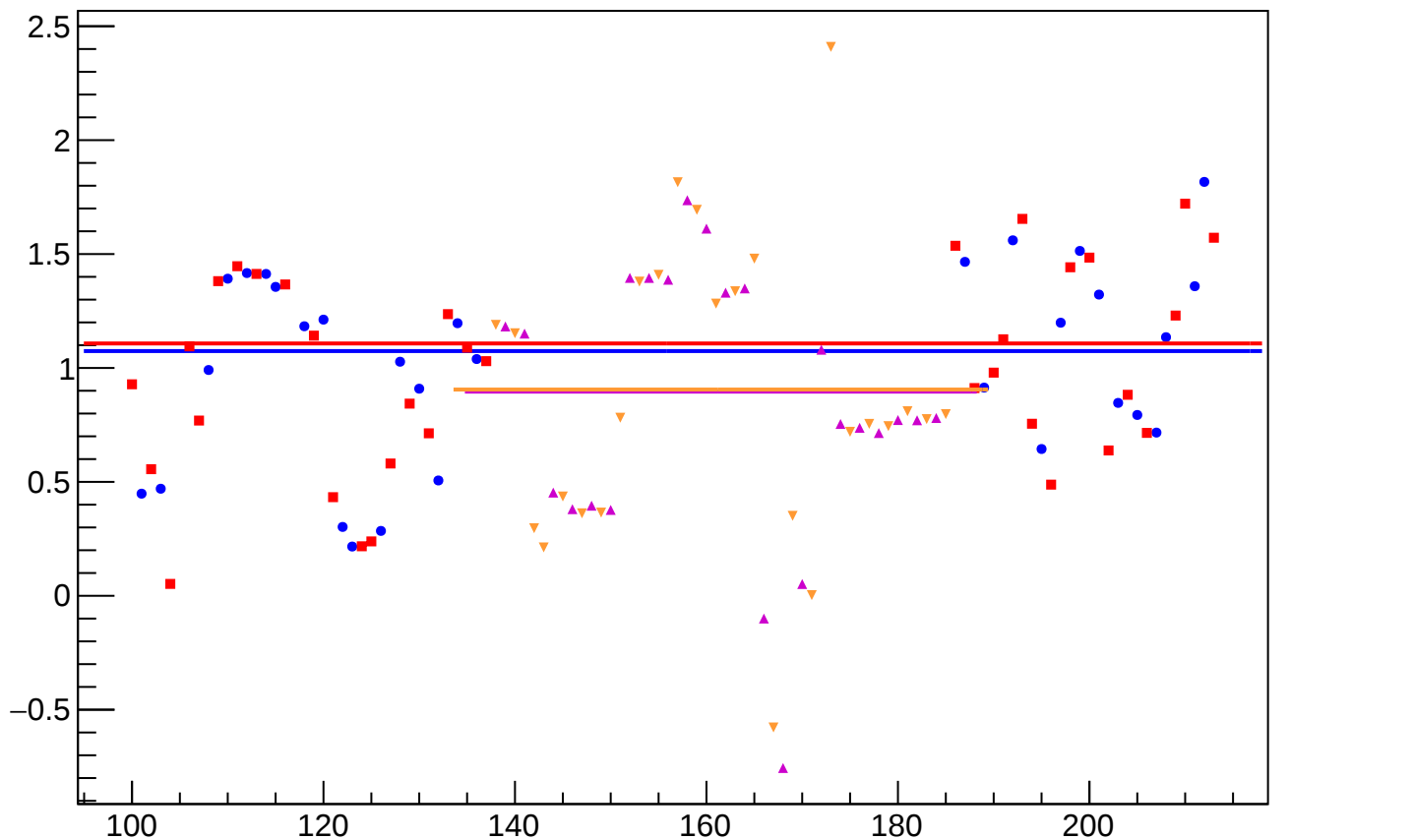
Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

+ sign 0.038 $\pm$ 0.000 χ^2 /NDF: 5940056.7/54

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 11860196.6/111

- sign 0.039 $\pm$ 0.000 χ^2 /NDF: 5882729.7/56

yield_bpm12Y_mean vs Slug



Right In: 1.074 ± 0.000 χ^2/NDF : 36823140573.6/29

Left Out: 0.905 ± 0.000 χ^2/NDF : 84265726513.8/24

Right Out: 1.108 ± 0.000 χ^2/NDF : 43647471236.9/33

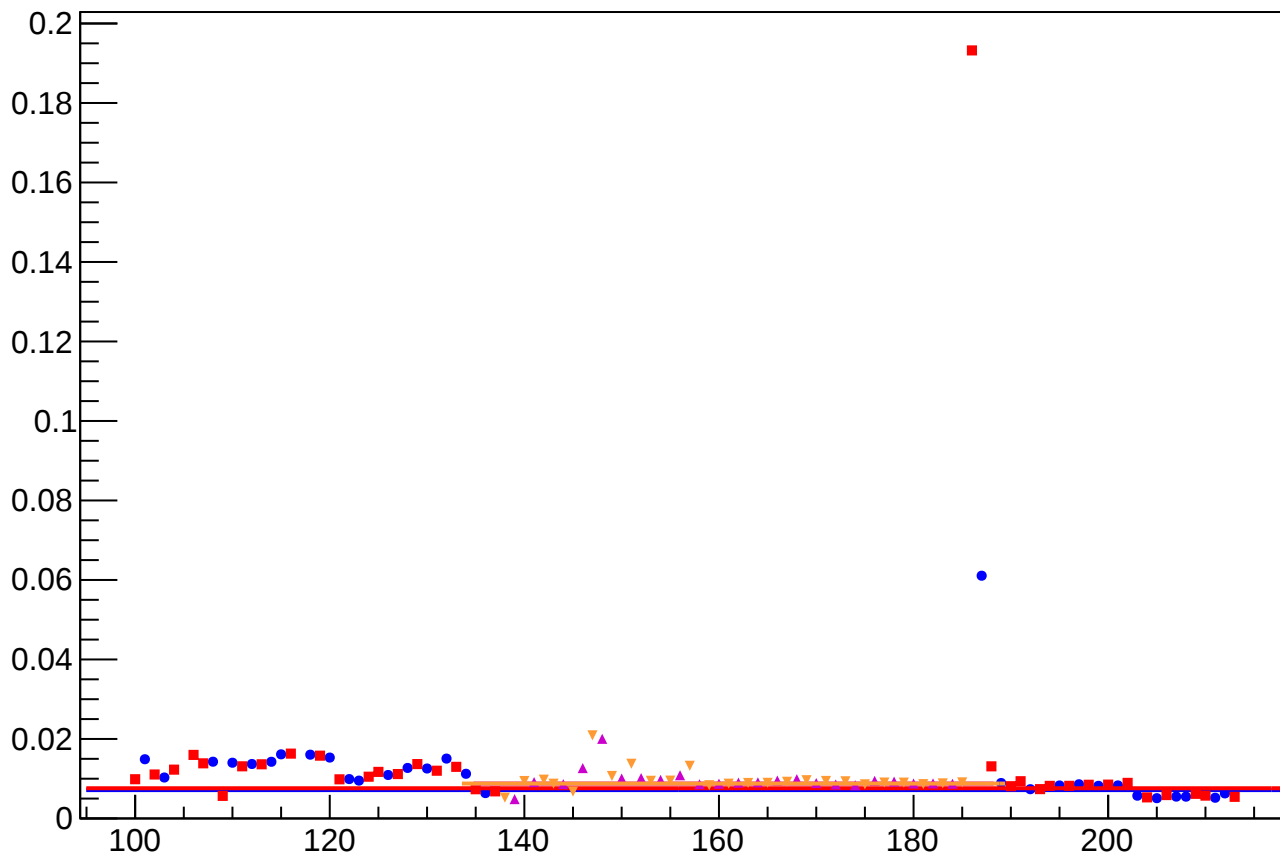
Left In: 0.896 ± 0.000 χ^2/NDF : 66594200889.6/22

+ sign 0.997 ± 0.000 χ^2/NDF : 124473026393.3/54

All: 1.004 ± 0.000 χ^2/NDF : 239735289782.1

- sign 1.011 ± 0.000 χ^2/NDF : 115214998150.3/56

yield_bpm12Y_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3466258.3/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1697568.1/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3680080.7/33

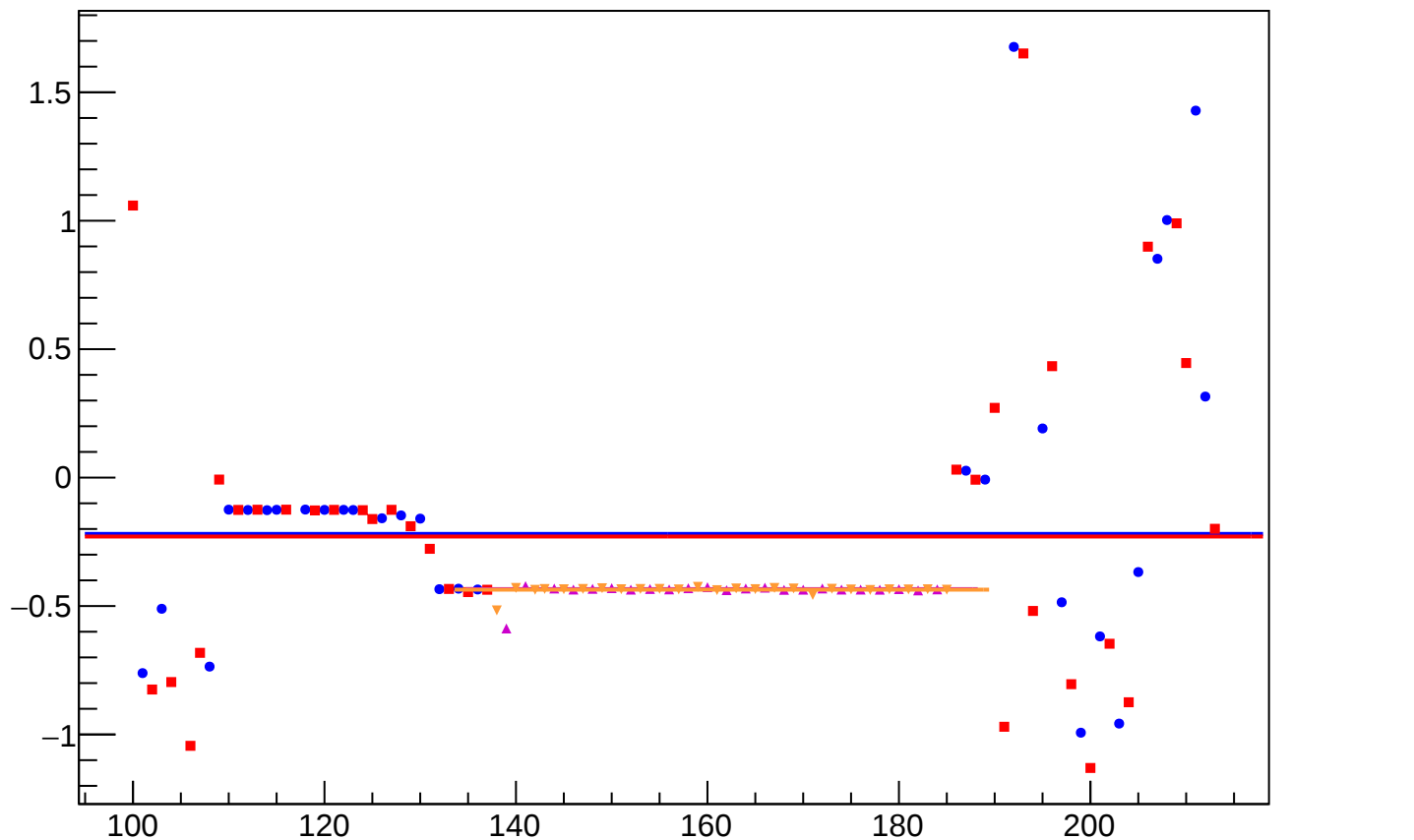
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1607939.0/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 5804850.7/54

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 11427426.2/111

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 5594238.2/56

yield_bpm16X_mean vs Slug



Right In: -0.219 ± 0.000 χ^2/NDF : 4754262104.3/29

Left Out: -0.436 ± 0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.229 ± 0.000 χ^2/NDF : 3417363082.8/33

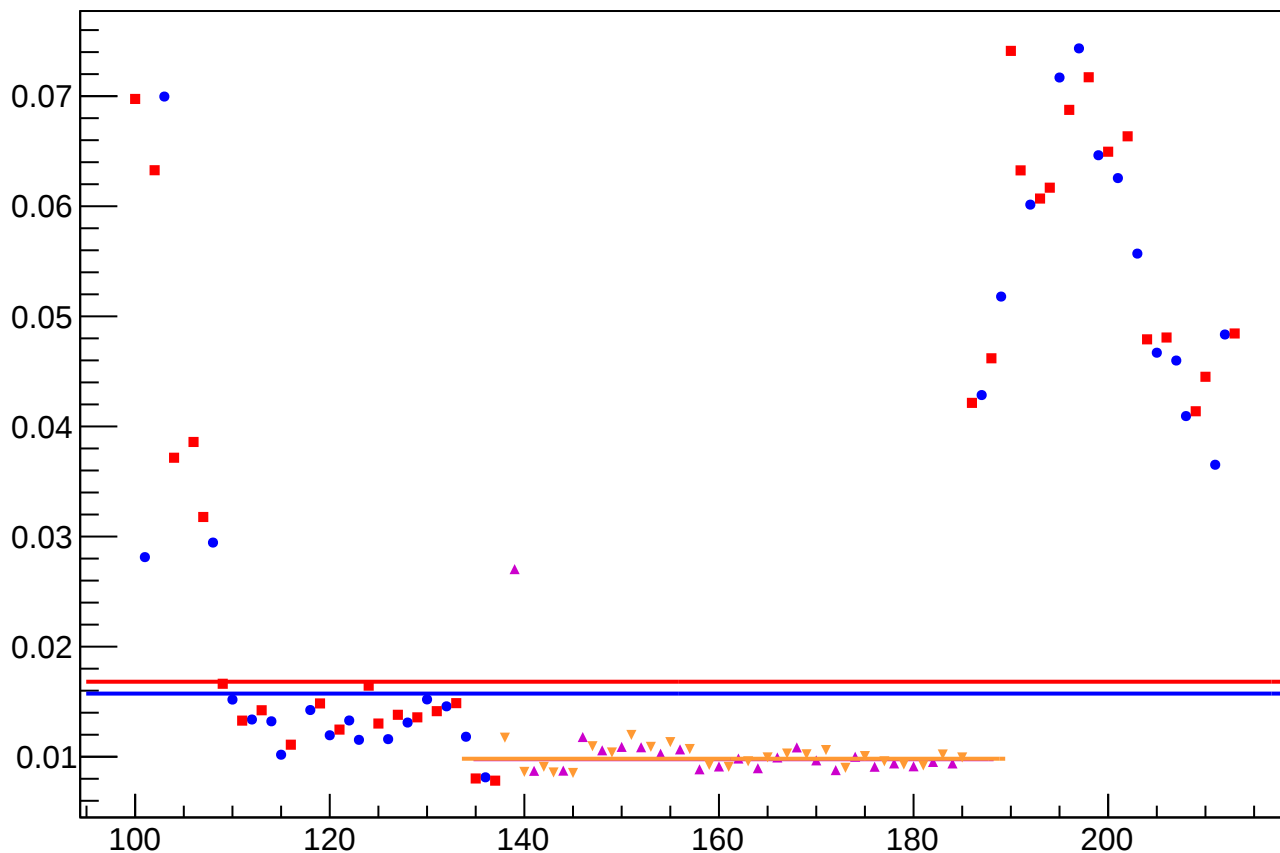
Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

+ sign -0.397 ± 0.000 χ^2/NDF : 6148055650.8/54

All: -0.397 ± 0.000 χ^2/NDF : 10732381343.4/107

- sign -0.397 ± 0.000 χ^2/NDF : 4584325692.5/56

yield_bpm16X_rms vs Slug



Right In: 0.016+/-0.000 χ^2/NDF : 11357066.6/29

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.017+/-0.000 χ^2/NDF : 12266222.1/33

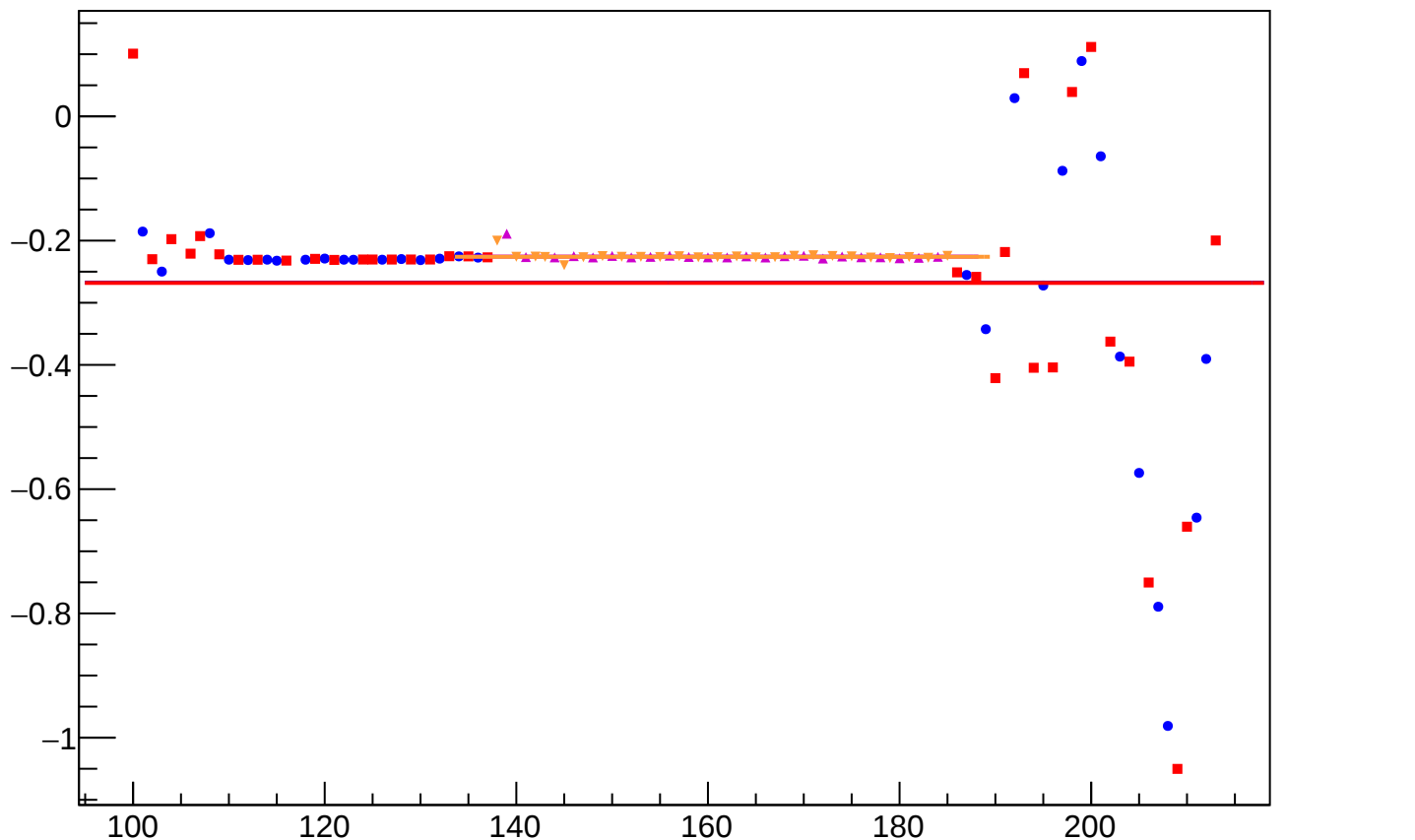
Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

+ sign 0.011+/-0.000 χ^2/NDF : 13655654.5/54

All: 0.011+/-0.000 χ^2/NDF : 29378315.4/111

- sign 0.011+/-0.000 χ^2/NDF : 15717914.4/56

yield_bpm16Y_mean vs Slug



Right In: -0.268 ± 0.000 $\chi^2/\text{NDF}: 24829609332.4/29$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21205667.4/24$

Right Out: -0.268 ± 0.000 $\chi^2/\text{NDF}: 25233911908.2/33$

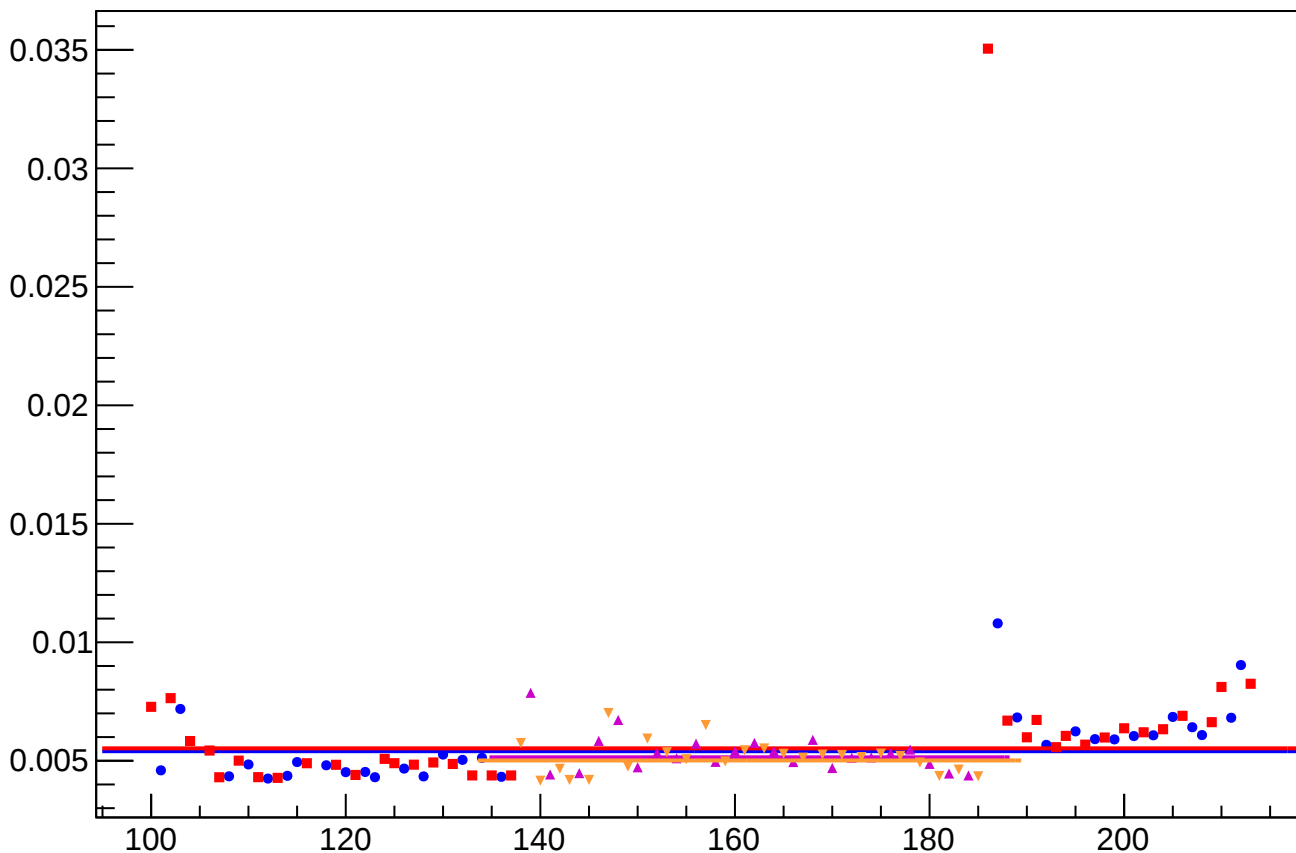
Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 15245251.1/22$

+ sign -0.243 ± 0.000 $\chi^2/\text{NDF}: 25343603550.1/54$

All: -0.244 ± 0.000 $\chi^2/\text{NDF}: 51090947423.1/100$

- sign -0.245 ± 0.000 $\chi^2/\text{NDF}: 25746130697.1/56$

yield_bpm16Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 1077522.3/29

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1607744.0/33

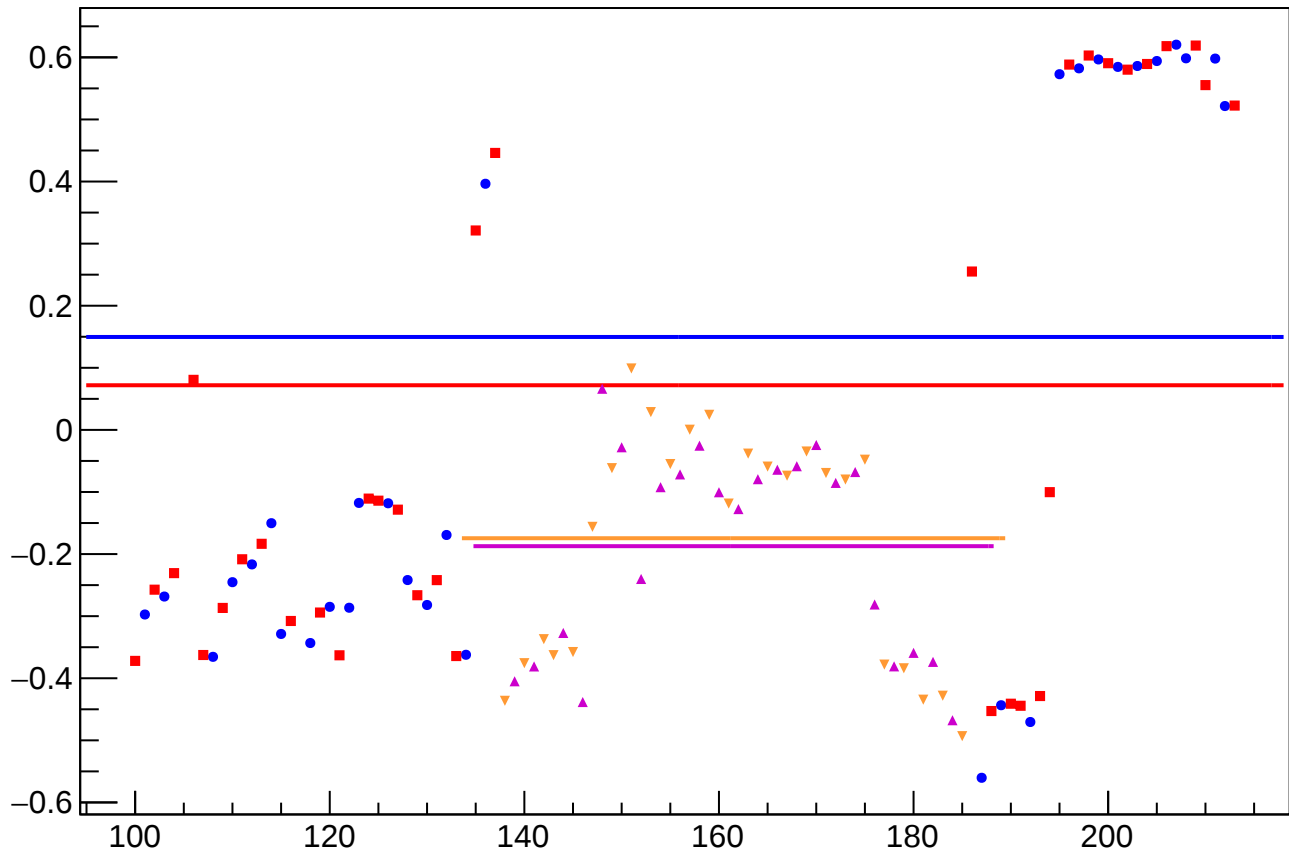
Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

+ sign 0.005+/-0.000 χ^2/NDF : 1695583.3/54

All: 0.005+/-0.000 χ^2/NDF : 3898021.8/111

- sign 0.005+/-0.000 χ^2/NDF : 2179999.5/56

yield_bpm0i02X_mean vs Slug



Right In: 0.150+/-0.000 χ^2/NDF : 65978318235.5/29

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: 0.072+/-0.000 χ^2/NDF : 66224140462.2/33

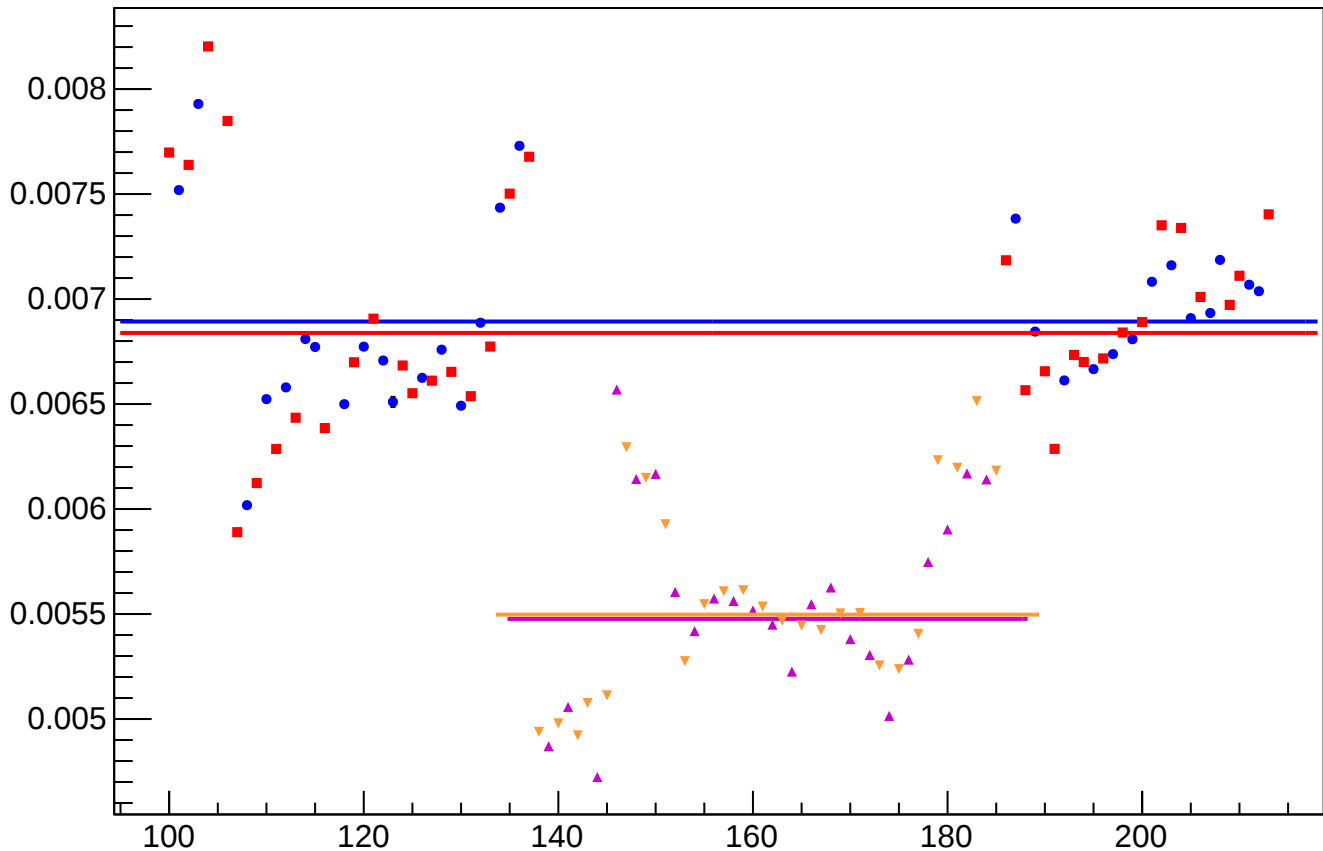
Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

+ sign -0.057+/-0.000 χ^2/NDF : 106094242597.7/54

All: -0.070+/-0.000 χ^2/NDF : 200092405263.9

- sign -0.084+/-0.000 χ^2/NDF : 93649365606.2/56

yield_bpm0i02X_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 93188.0/29

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:198746.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 142070.0/33

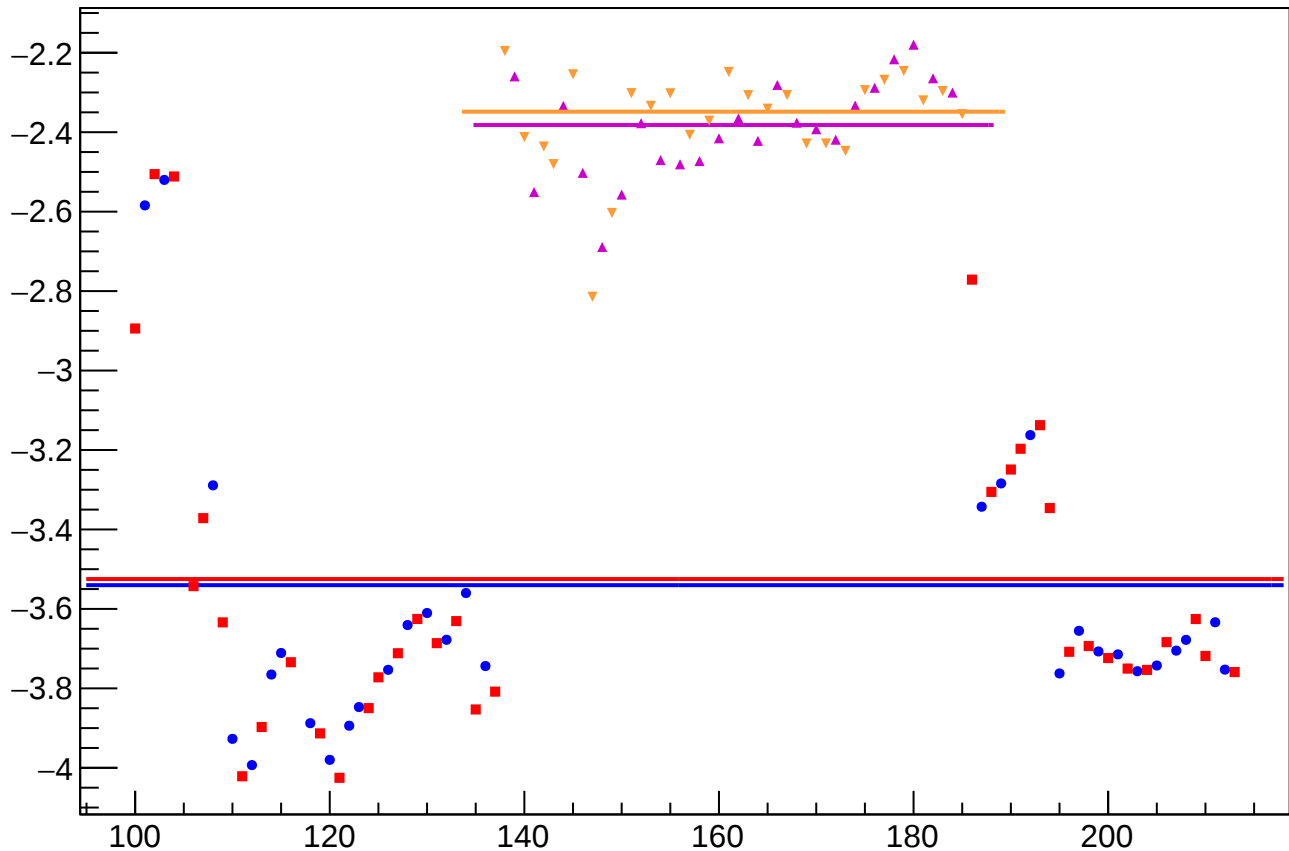
Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:202181.4/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1111004.1/54

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 2262136.9/111

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1150980.4/56

yield_bpm0i02Y_mean vs Slug



Right In: -3.540+/-0.000 χ^2/NDF : 30297689276.9/29

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

+ sign -2.850+/-0.000 χ^2/NDF : 166865139519.7/54

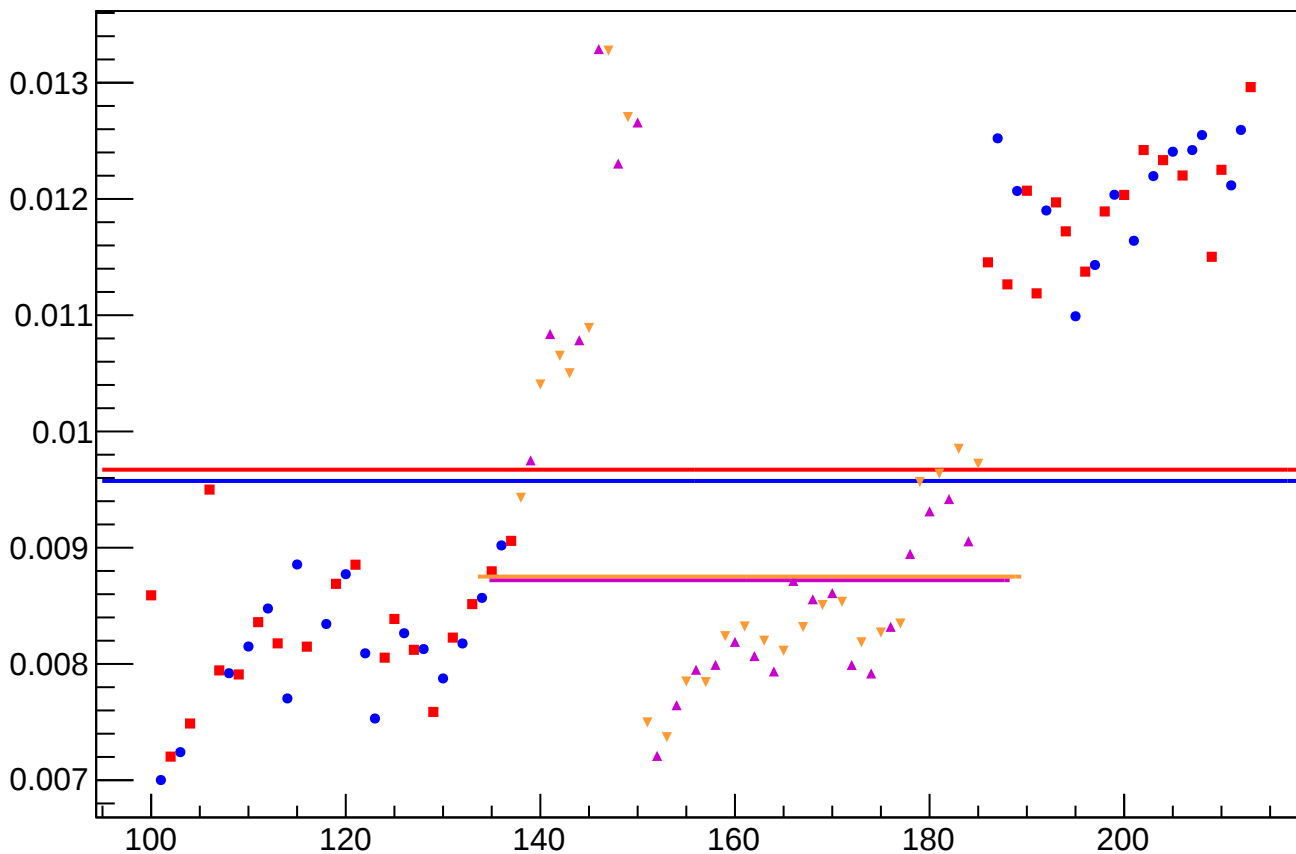
Right Out: -3.525+/-0.000 χ^2/NDF : 31318054954.9/33

All: -2.872+/-0.000 χ^2/NDF : 325635635781.8

- sign -2.894+/-0.000 χ^2/NDF : 158397915806.3/56

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

yield_bpm0i02Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1304044.2/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:663672.8/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1274912.0/33

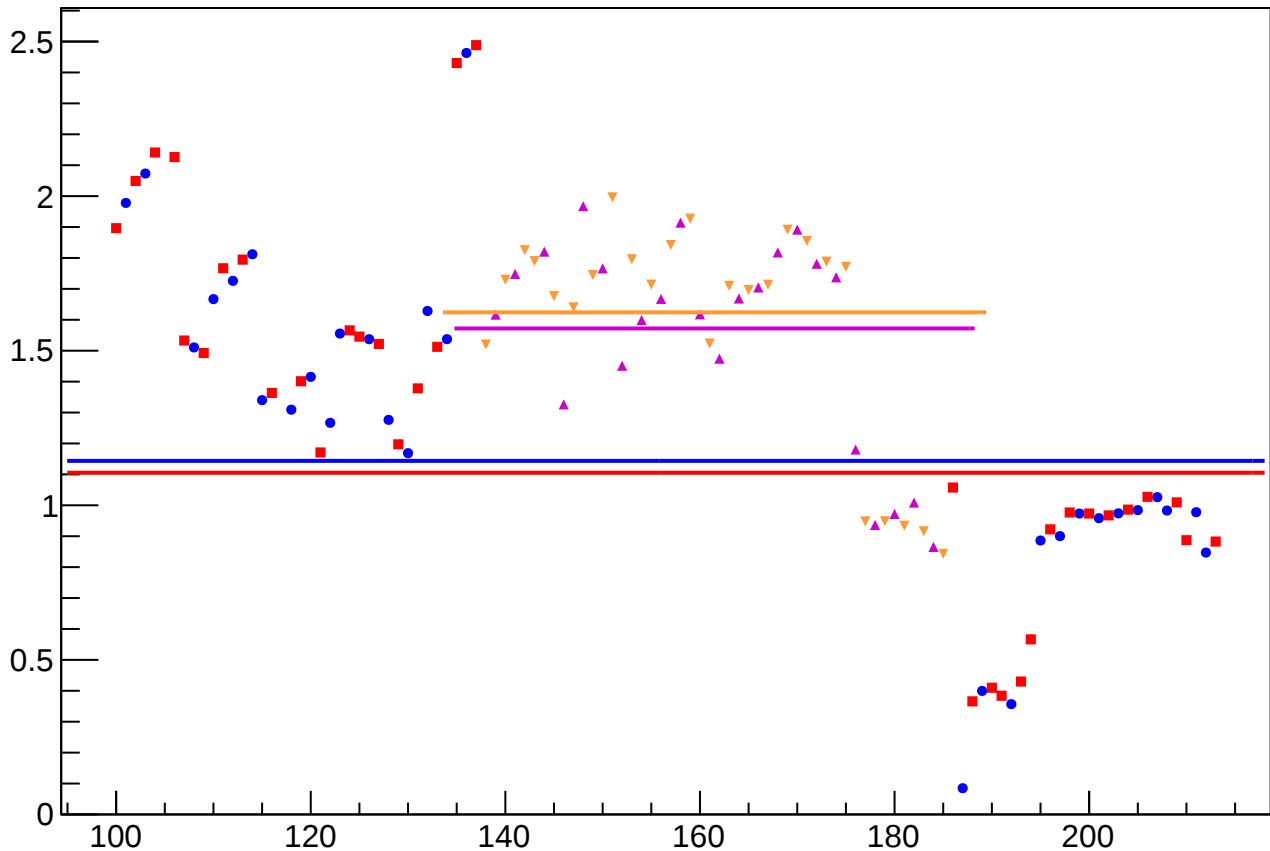
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:747867.0/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2095840.9/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4292166.5/111

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2195413.8/56

yield_bpm0i02aX_mean vs Slug



Right In: 1.144 $\pm$ 0.000 χ^2 /NDF: 28171461543.3/29

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.105 $\pm$ 0.000 χ^2 /NDF: 33157275731.4/33

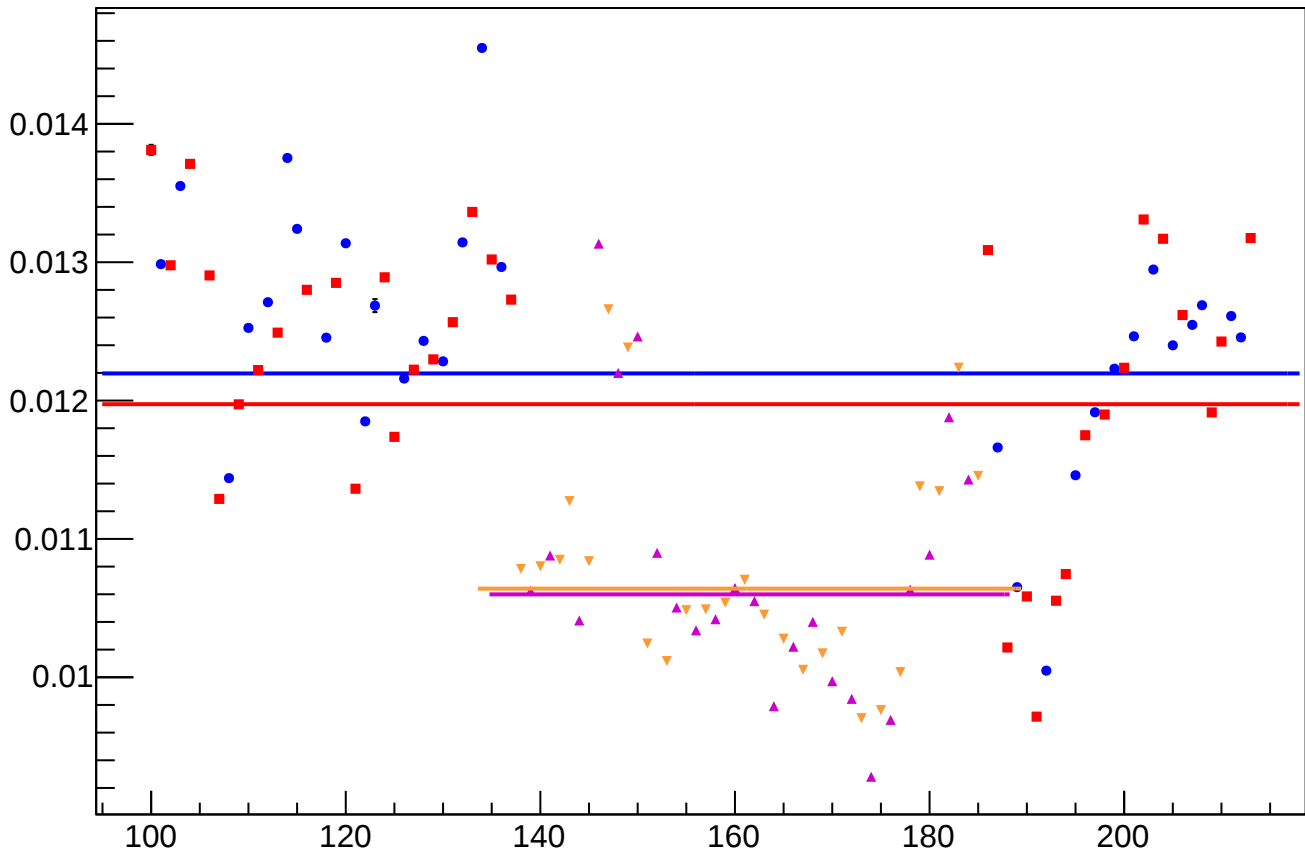
Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

+ sign 1.431 $\pm$ 0.000 χ^2 /NDF: 59268912077.6/54

All: 1.398 $\pm$ 0.000 χ^2 /NDF: 121419256670.6

- sign 1.366 $\pm$ 0.000 χ^2 /NDF: 61593115942.9/56

yield_bpm0i02aX_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 171602.0/29

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 245510.7/33

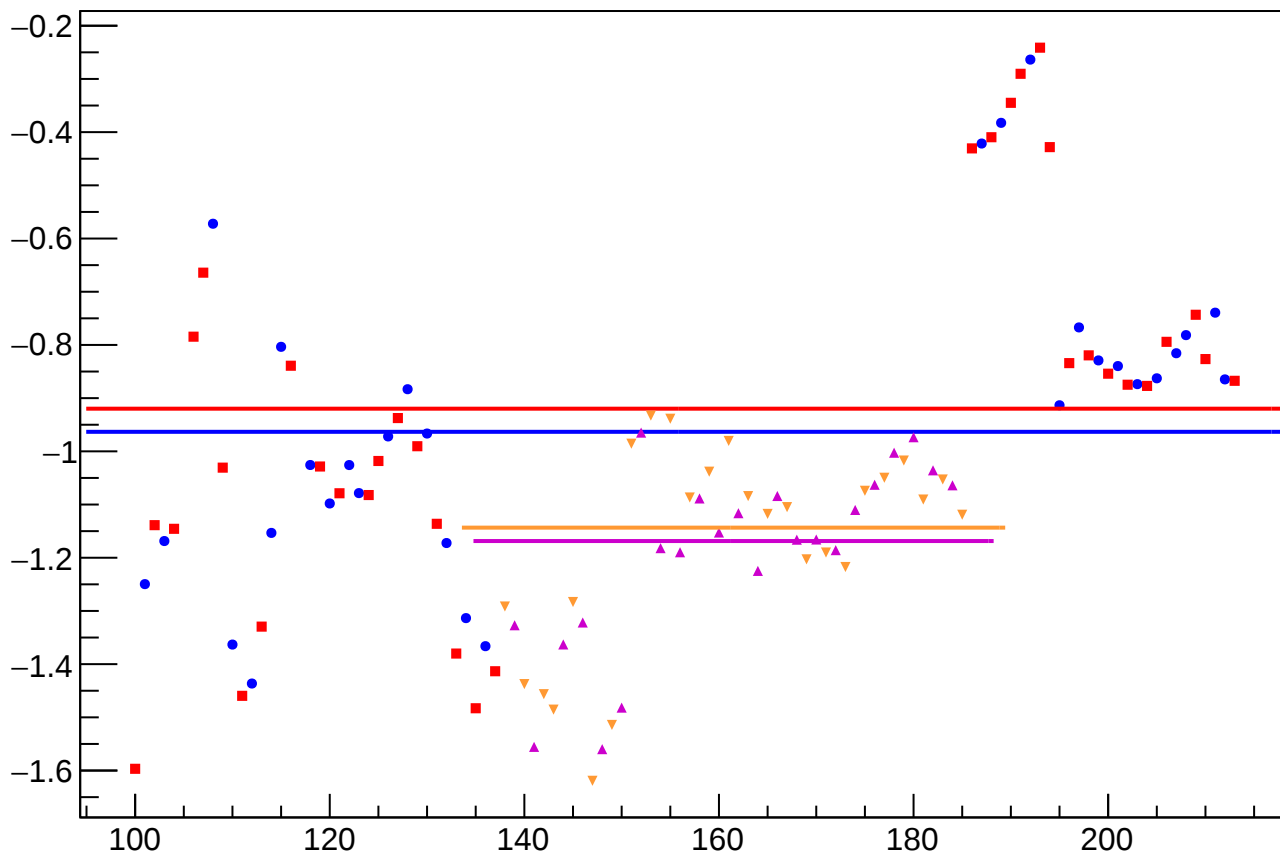
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 634571.3/54

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1332006.6/111

- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 696498.0/56

yield_bpm0i02aY_mean vs Slug



Right In: -0.963 ± 0.000 $\chi^2/\text{NDF}: 11432121260.5/29$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.920 ± 0.000 $\chi^2/\text{NDF}: 16091002804.6/33$

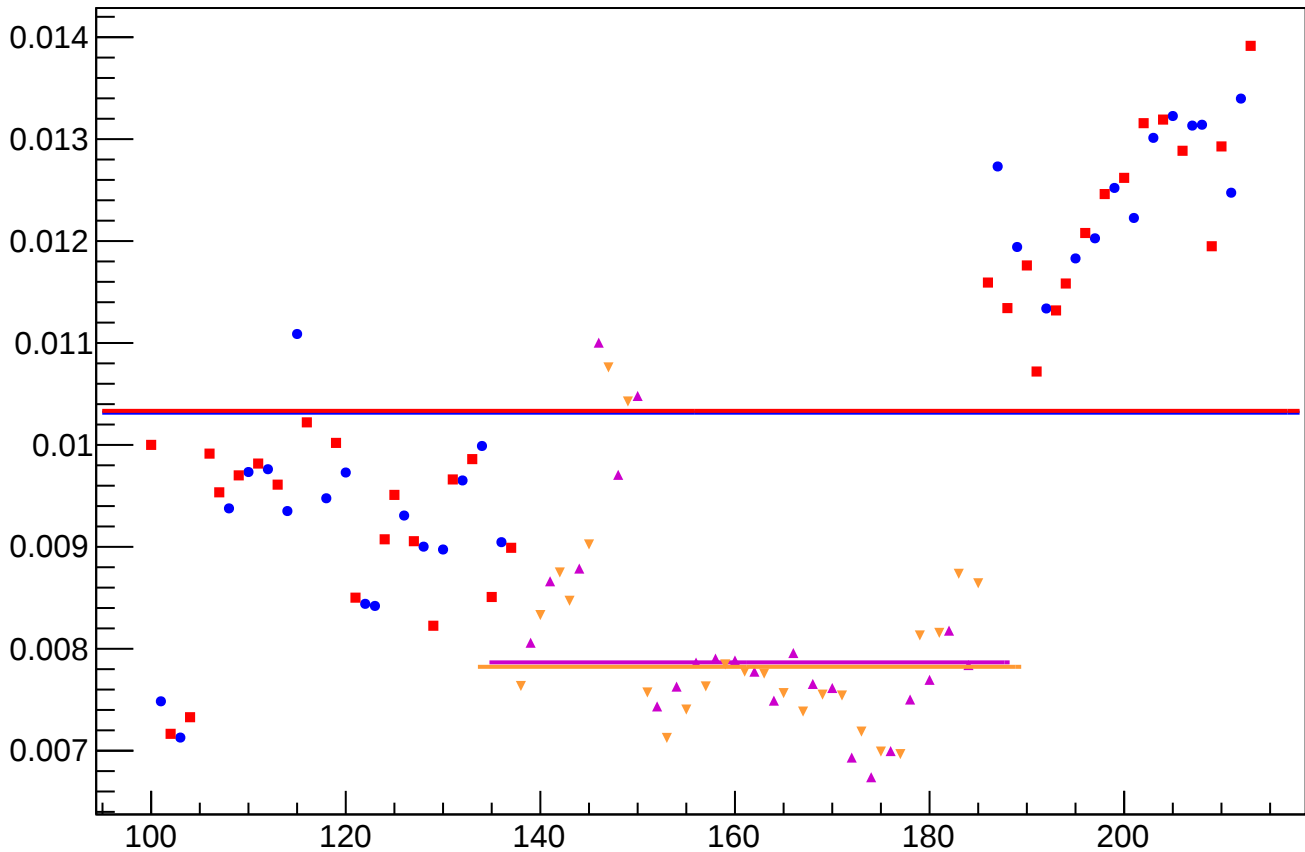
Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

+ sign -1.083 ± 0.000 $\chi^2/\text{NDF}: 22438511263.7/54$

All: -1.081 ± 0.000 $\chi^2/\text{NDF}: 50821255782.3/100$

- sign -1.078 ± 0.000 $\chi^2/\text{NDF}: 28376332833.1/56$

yield_bpm0i02aY_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1110256.6/29

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:336387.6/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1100601.8/33

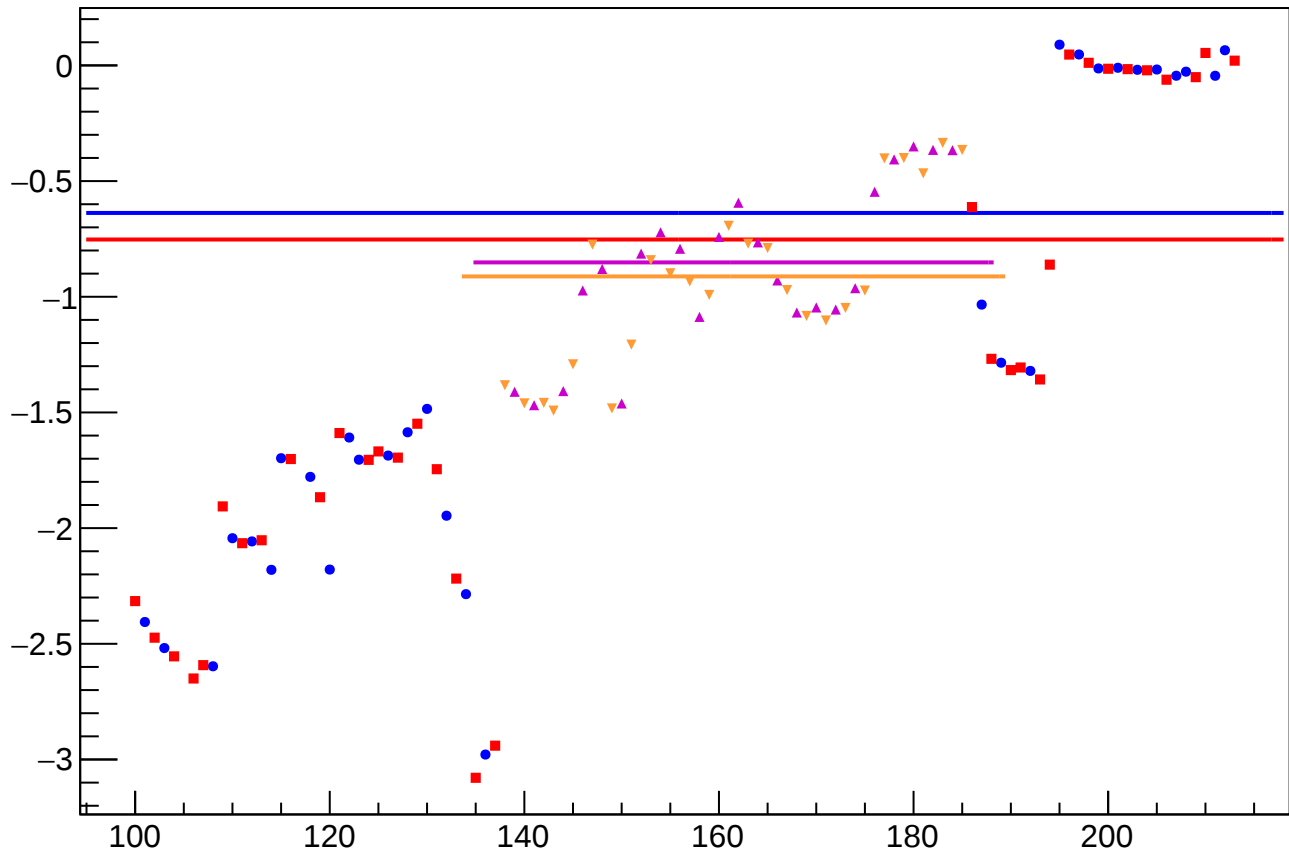
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:379901.3/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2607847.8/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 5258873.7/111

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2645729.5/56

yield_bpm0i05X_mean vs Slug



Right In: -0.638 ± 0.000 χ^2/NDF : 387668125098.1/29

Left Out: -0.912 ± 0.000 χ^2/NDF : 49039425818.1/24

Right Out: -0.753 ± 0.000 χ^2/NDF : 420187253668.8/33

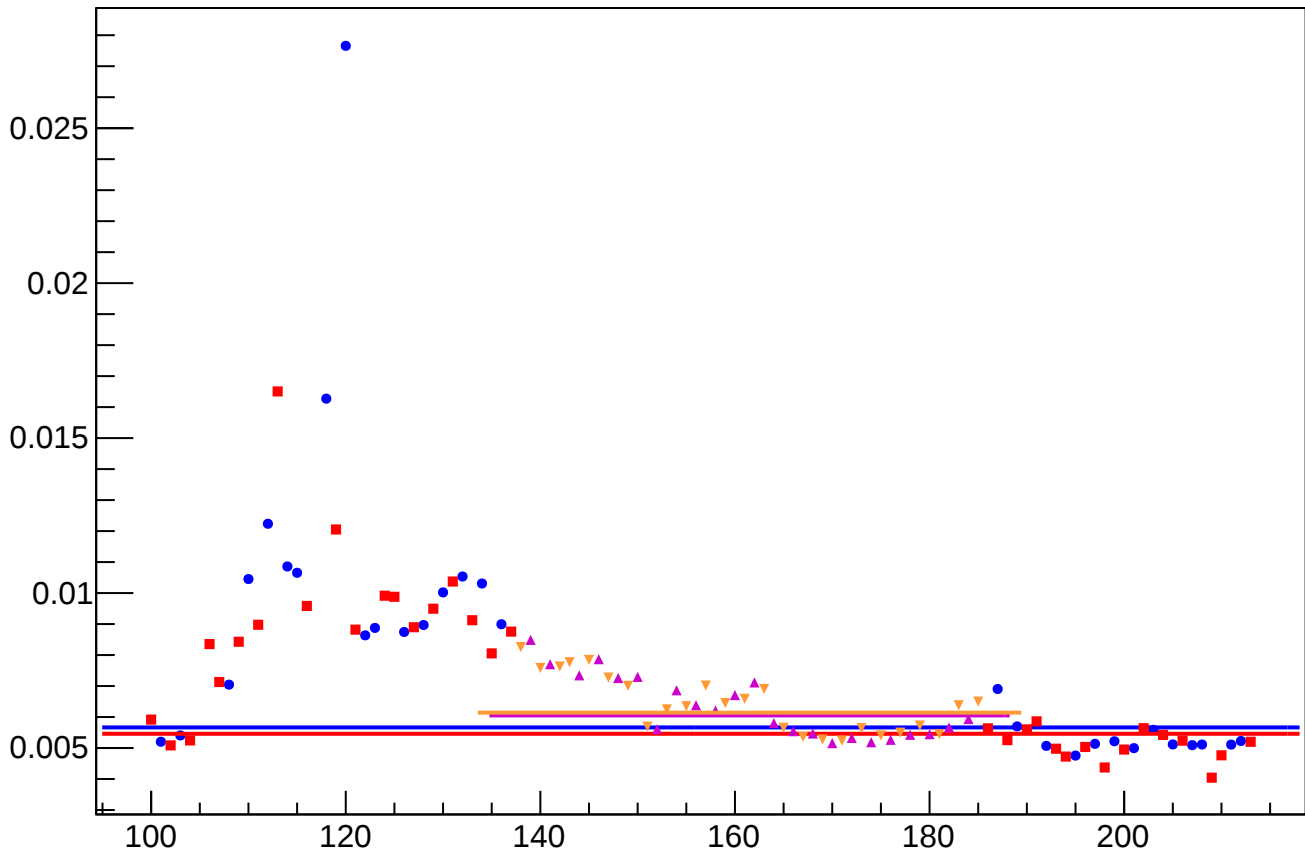
Left In: -0.851 ± 0.000 χ^2/NDF : 46438446008.2/22

+ sign -0.780 ± 0.000 χ^2/NDF : 452826191773.8/54

All: -0.790 ± 0.000 χ^2/NDF : 921860675709.1

- sign -0.799 ± 0.000 χ^2/NDF : 468870048357.7/56

yield_bpm0i05X_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 2056946.5/29

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2130057.0/33

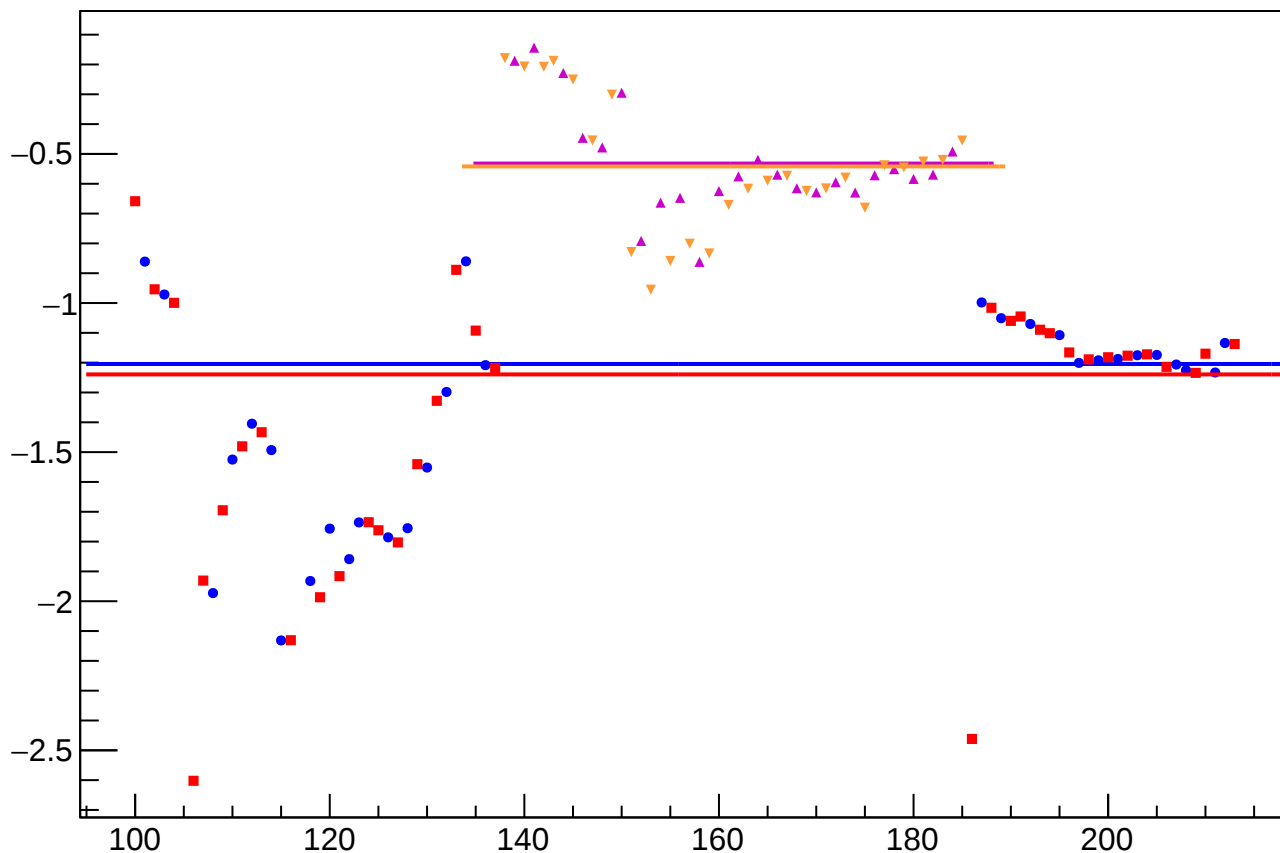
Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

+ sign 0.006+/-0.000 χ^2/NDF : 2792310.5/54

All: 0.006+/-0.000 χ^2/NDF : 5807520.3/111

- sign 0.006+/-0.000 χ^2/NDF : 2988822.6/56

yield_bpm0i05Y_mean vs Slug



Right In: -1.204+/-0.000 χ^2/NDF : 26581599160.8/29

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.239+/-0.000 χ^2/NDF : 79541584147.8/33

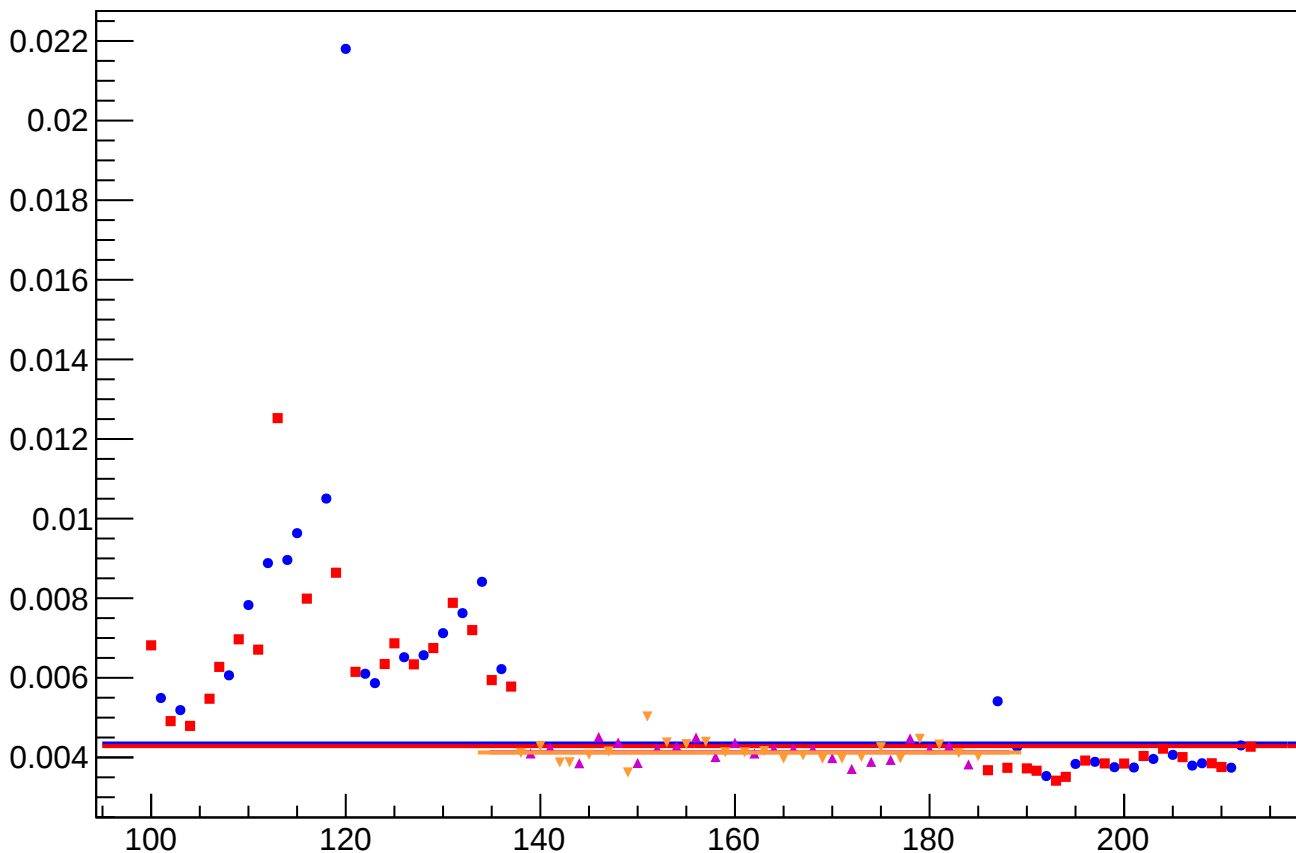
Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

+ sign -0.815+/-0.000 χ^2/NDF : 253515462905.8/54

All: -0.835+/-0.000 χ^2/NDF : 578475608705.6

- sign -0.854+/-0.000 χ^2/NDF : 323655692588.0/56

yield_bpm0i05Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 2069665.2/29

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:113033.9/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1889295.5/33

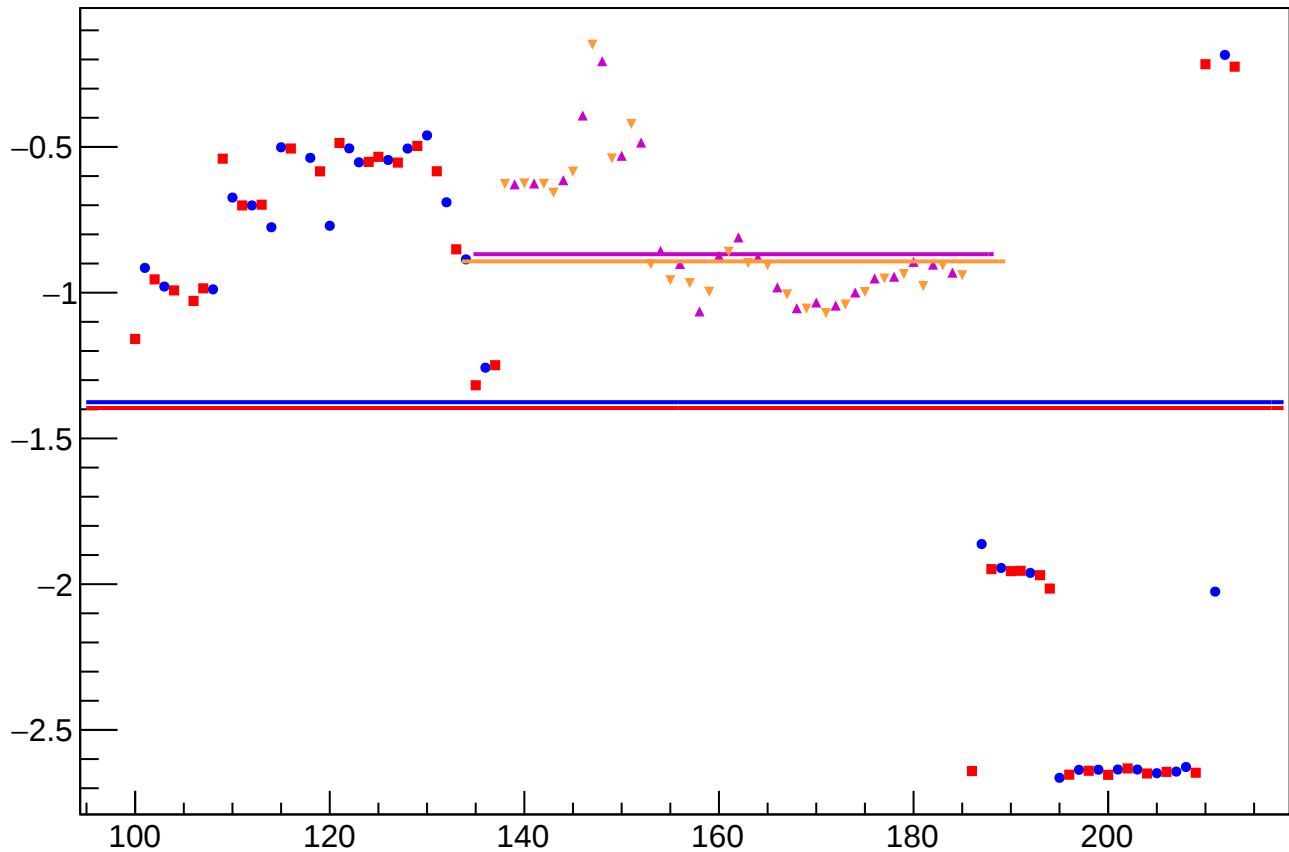
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:93111.2/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2224401.6/54

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 4227613.7/111

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2002683.3/56

yield_bpm0i07X_mean vs Slug



Right In: -1.376 ± 0.000 $\chi^2/\text{NDF}: 414750210012.2/29$

Left Out: -0.893 ± 0.000 $\chi^2/\text{NDF}: 40787012603.8/24$

Right Out: -1.396 ± 0.000 $\chi^2/\text{NDF}: 590587816086.1/33$

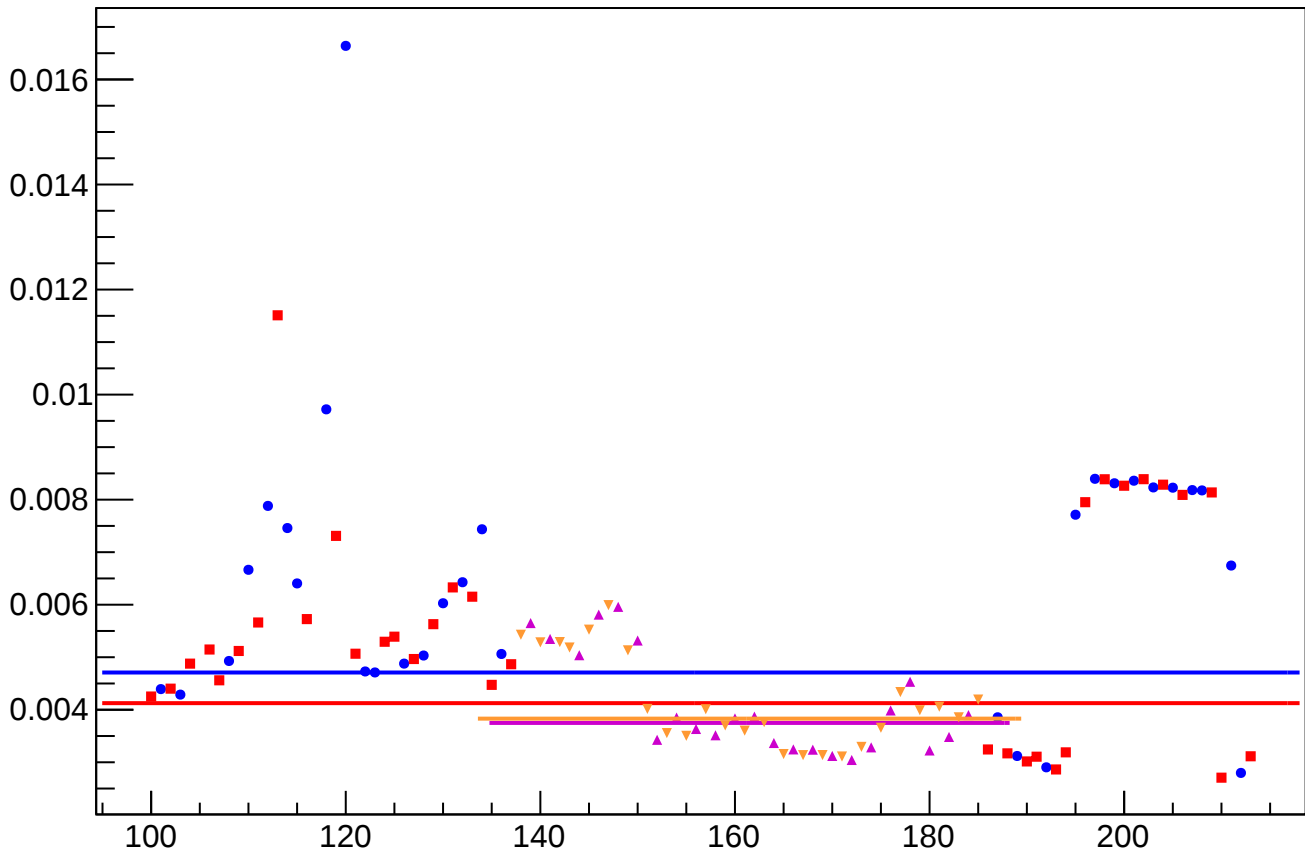
Left In: -0.868 ± 0.000 $\chi^2/\text{NDF}: 43853190177.2/22$

+ sign -1.053 ± 0.000 $\chi^2/\text{NDF}: 542470101215.3/54$

All: -1.072 ± 0.000 $\chi^2/\text{NDF}: 1307916642452$

- sign -1.088 ± 0.000 $\chi^2/\text{NDF}: 764291931918.5/56$

yield_bpm0i07X_rms vs Slug



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 4740182.9/29

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1179801.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 4712771.9/33

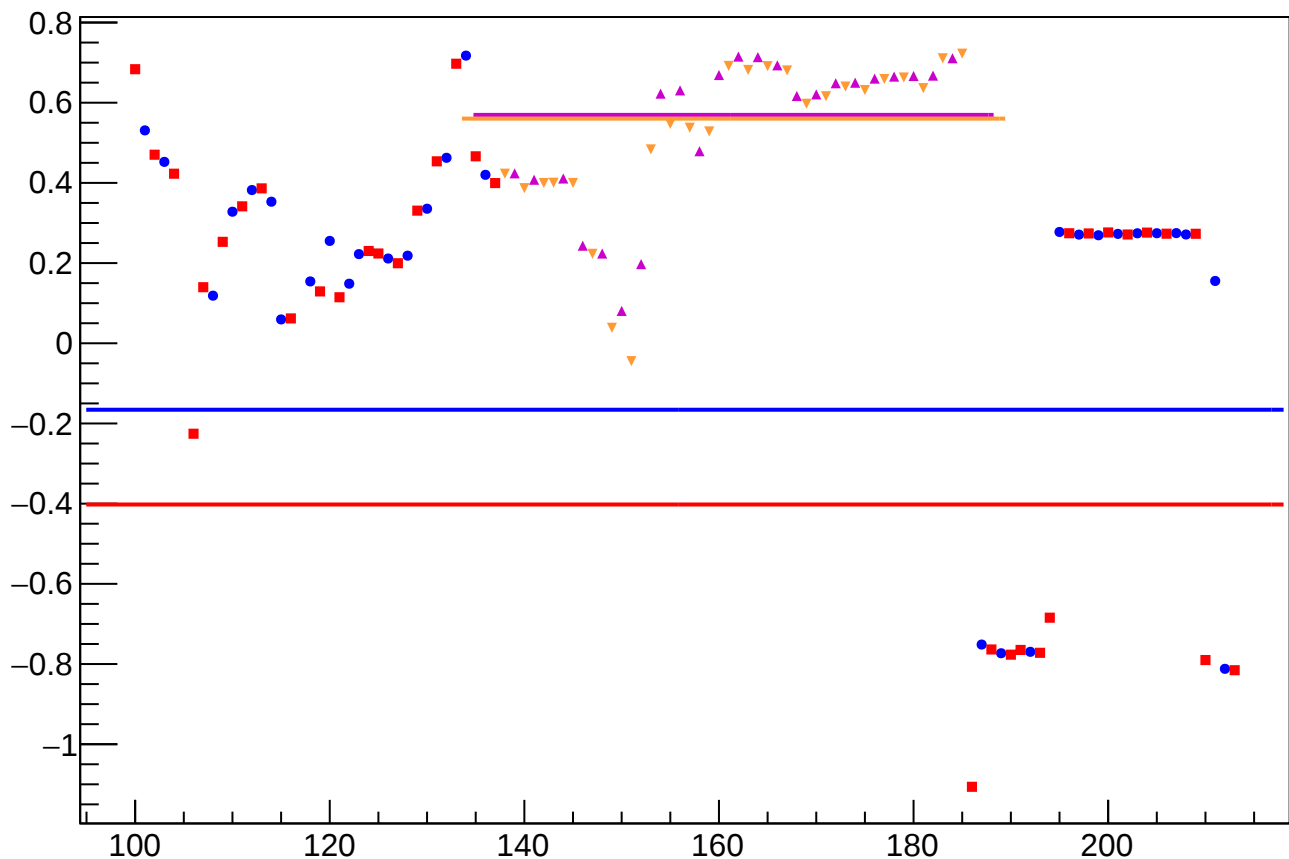
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1288490.4/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6494915.1/54

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 12711510.3/111

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 6133564.5/56

yield_bpm0i07Y_mean vs Slug



Right In: -0.166 ± 0.000 χ^2/NDF : 349883690794.5/29

Left Out: 0.560 ± 0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.402 ± 0.000 χ^2/NDF : 515809360427.2/33

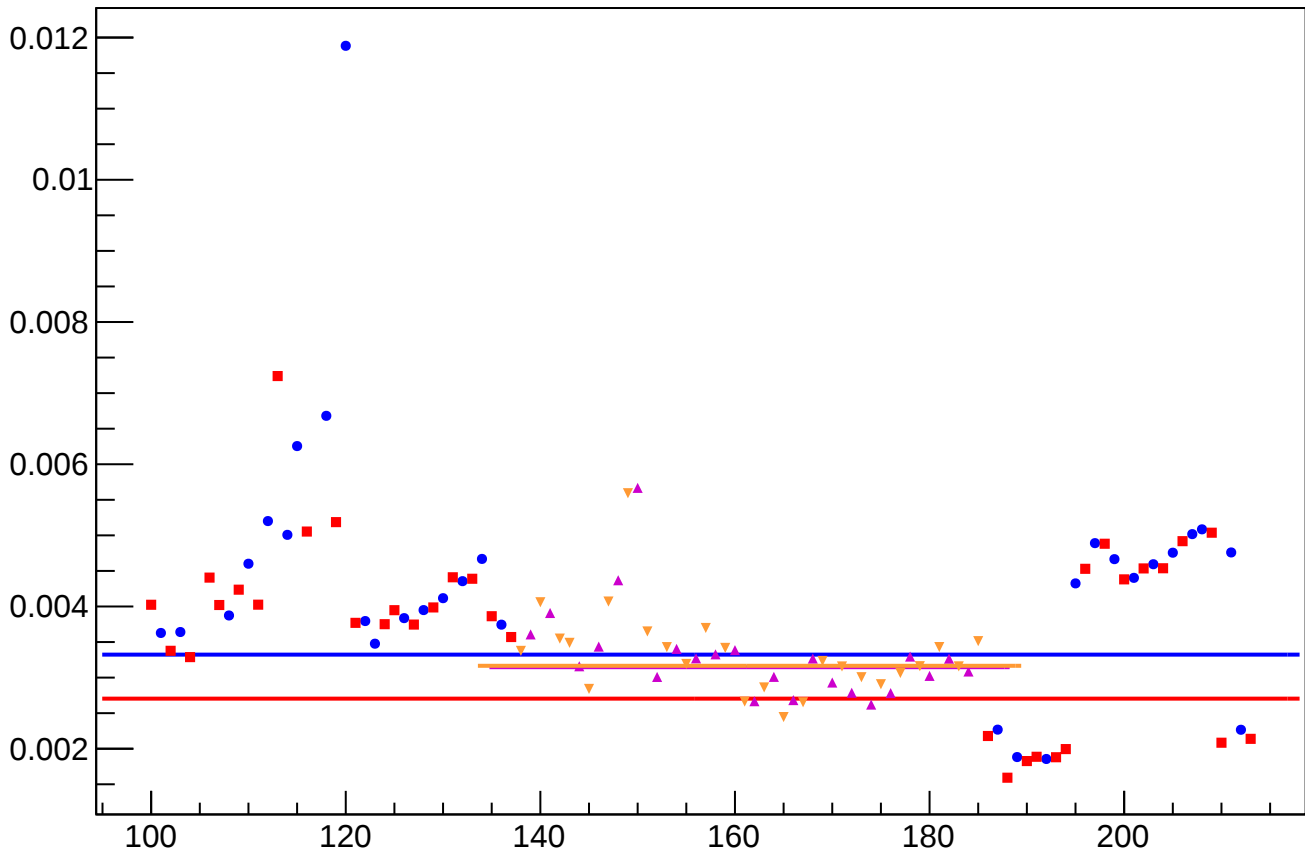
Left In: 0.570 ± 0.000 χ^2/NDF : 42104067973.0/22

+ sign 0.256 ± 0.000 χ^2/NDF : 752768990149.9/54

All: 0.142 ± 0.000 χ^2/NDF : 2168816078402.0/100

- sign 0.047 ± 0.000 χ^2/NDF : 1349311020042.0/56

yield_bpm0i07Y_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 3869126.2/29

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 744886.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 5024490.5/33

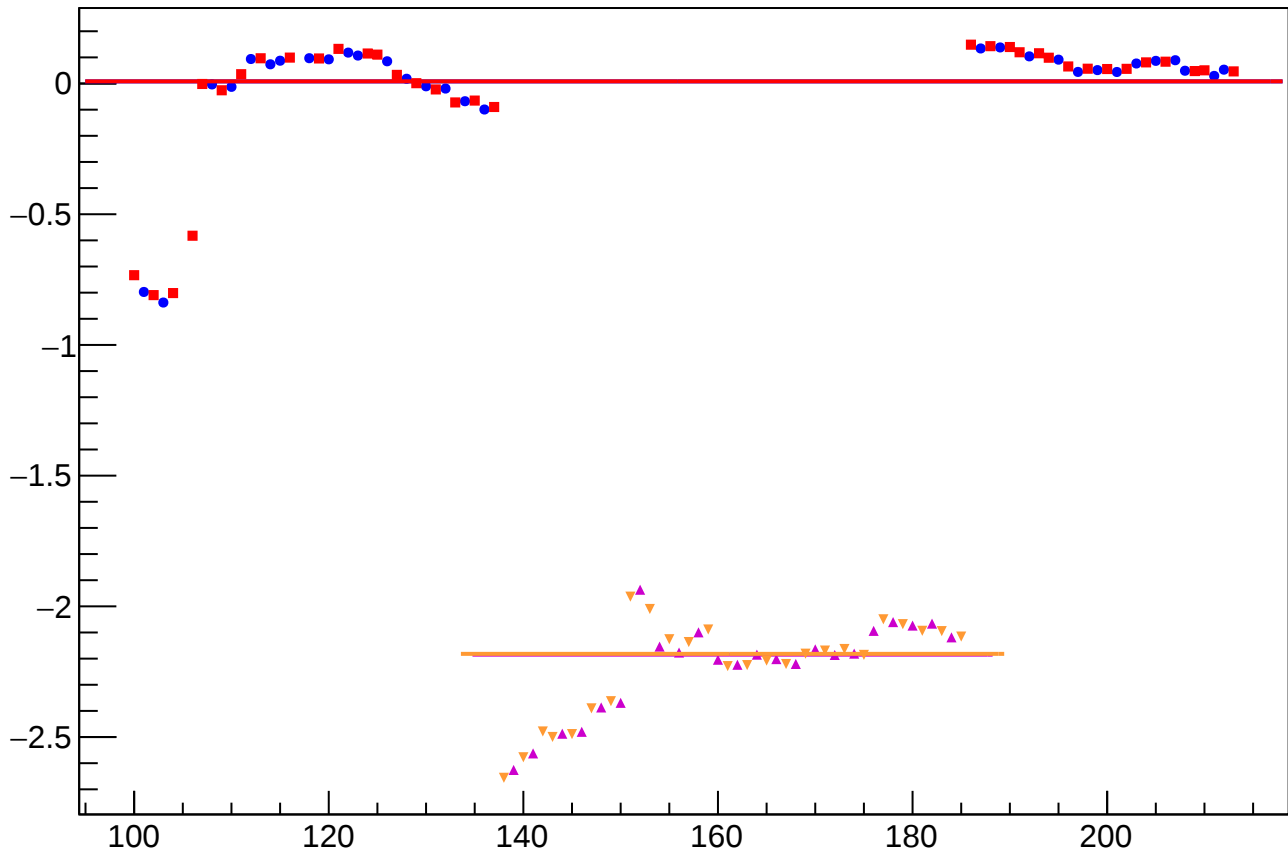
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 716402.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 4647456.5/54

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 11035024.2/111

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 6068554.8/56

yield_bpm1i02X_mean vs Slug



Right In: 0.008 ± 0.000 $\chi^2/\text{NDF}: 5909991468.2/29$

Left Out: -2.182 ± 0.000 $\chi^2/\text{NDF}: 4008829567.0/24$

Right Out: 0.008 ± 0.000 $\chi^2/\text{NDF}: 6983479600.3/33$

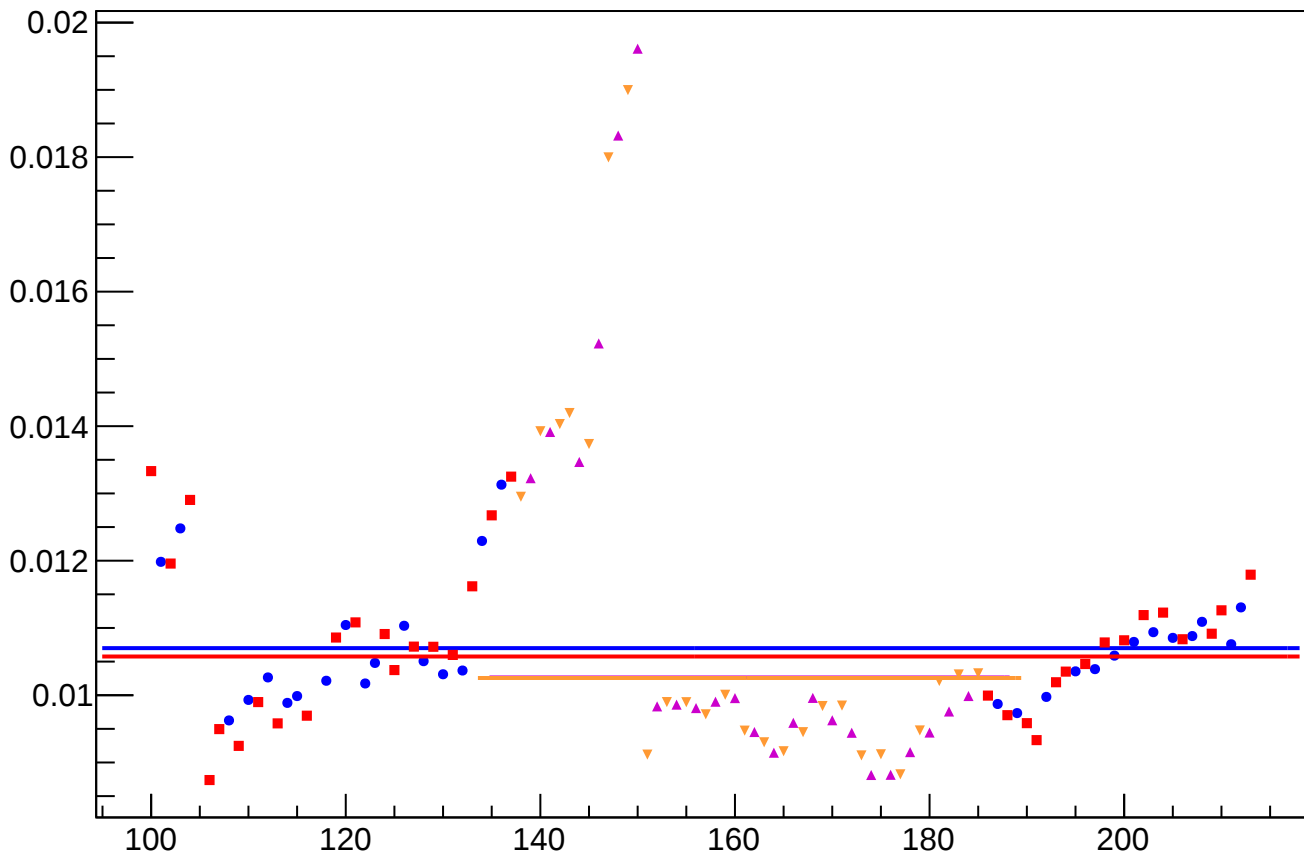
Left In: -2.185 ± 0.000 $\chi^2/\text{NDF}: 3372742534.3/22$

+ sign -1.194 ± 0.000 $\chi^2/\text{NDF}: 372985518210.6/54$

All: -1.149 ± 0.000 $\chi^2/\text{NDF}: 757143381749.9$

- sign -1.105 ± 0.000 $\chi^2/\text{NDF}: 382962501181.1/56$

yield_bpm1i02X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 158335.1/29

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 247355.9/33

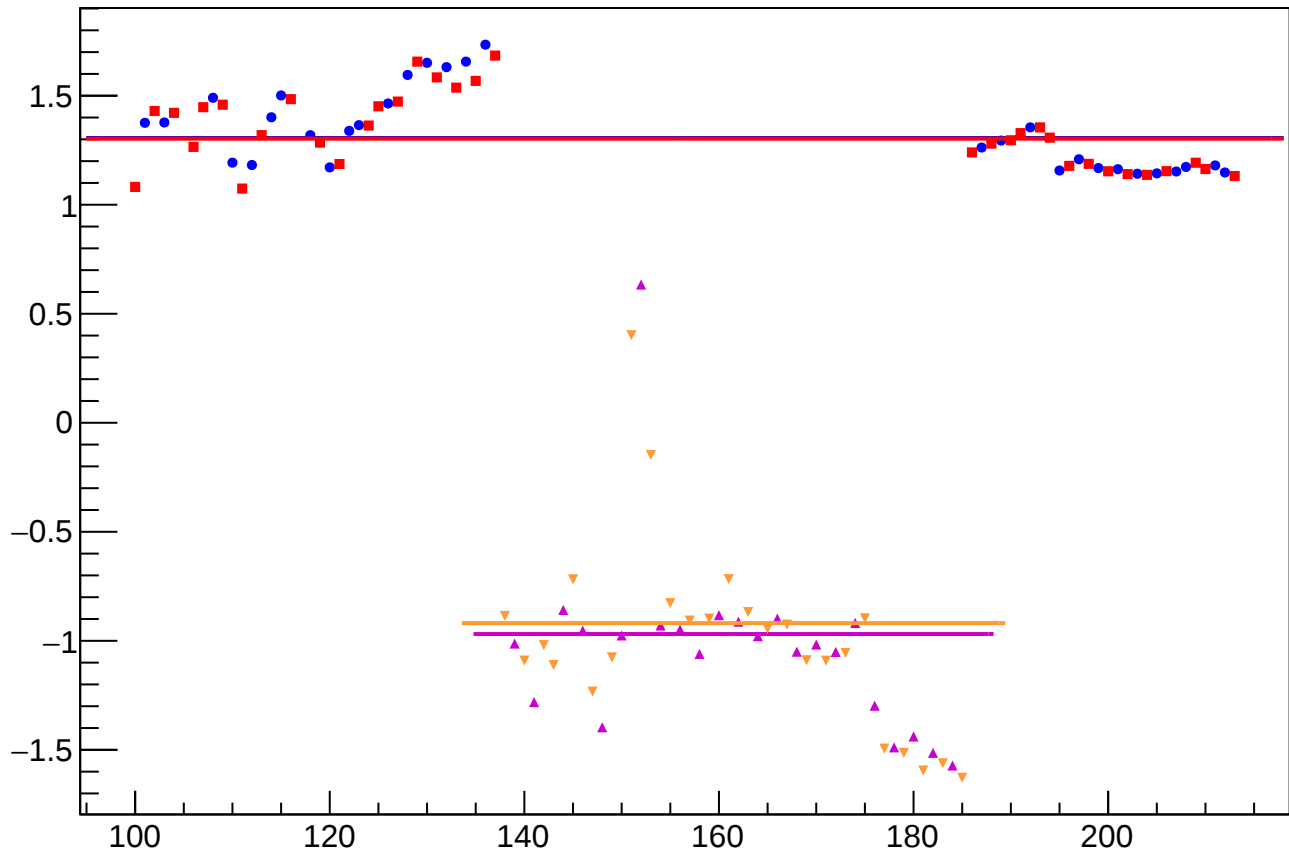
Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

+ sign 0.010+/-0.000 χ^2/NDF : 1458812.5/54

All: 0.010+/-0.000 χ^2/NDF : 3061899.9/111

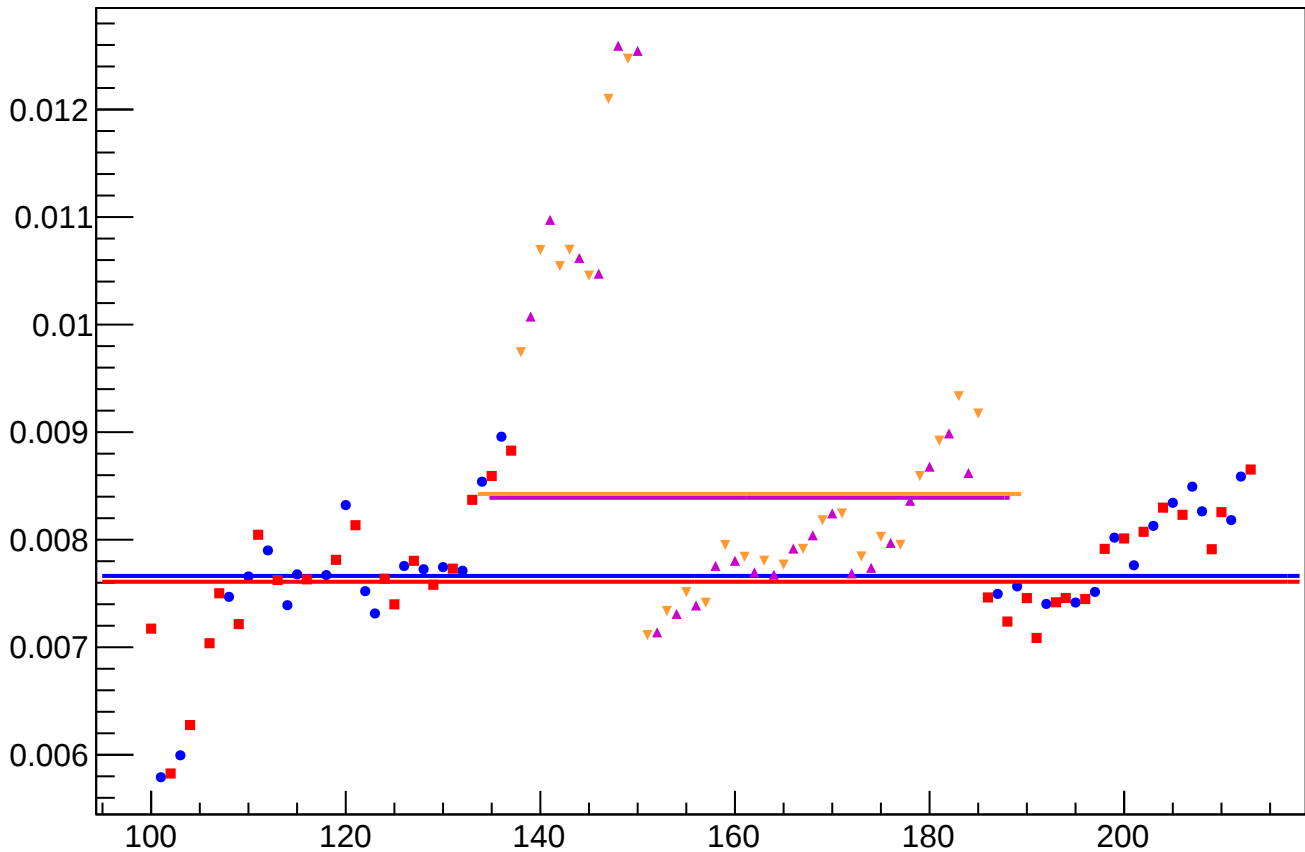
- sign 0.010+/-0.000 χ^2/NDF : 1602622.0/56

yield_bpm1i02Y_mean vs Slug



Right In: 1.306+/-0.000	χ^2/NDF : 8105255820.6/29	+ sign 0.226+/-0.000	χ^2/NDF : 706056182554.5/54
Left Out: -0.919+/-0.000	χ^2/NDF : 55622252895.8/24	All: 0.256+/-0.000	χ^2/NDF : 1450877968420.
Right Out: 1.303+/-0.000	χ^2/NDF : 6502505422.5/33	- sign 0.286+/-0.000	χ^2/NDF : 743897318628.3/56
Left In: -0.969+/-0.000	χ^2/NDF : 54895002535.8/22		

yield_bpm1i02Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 322568.4/29

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 260066.2/33

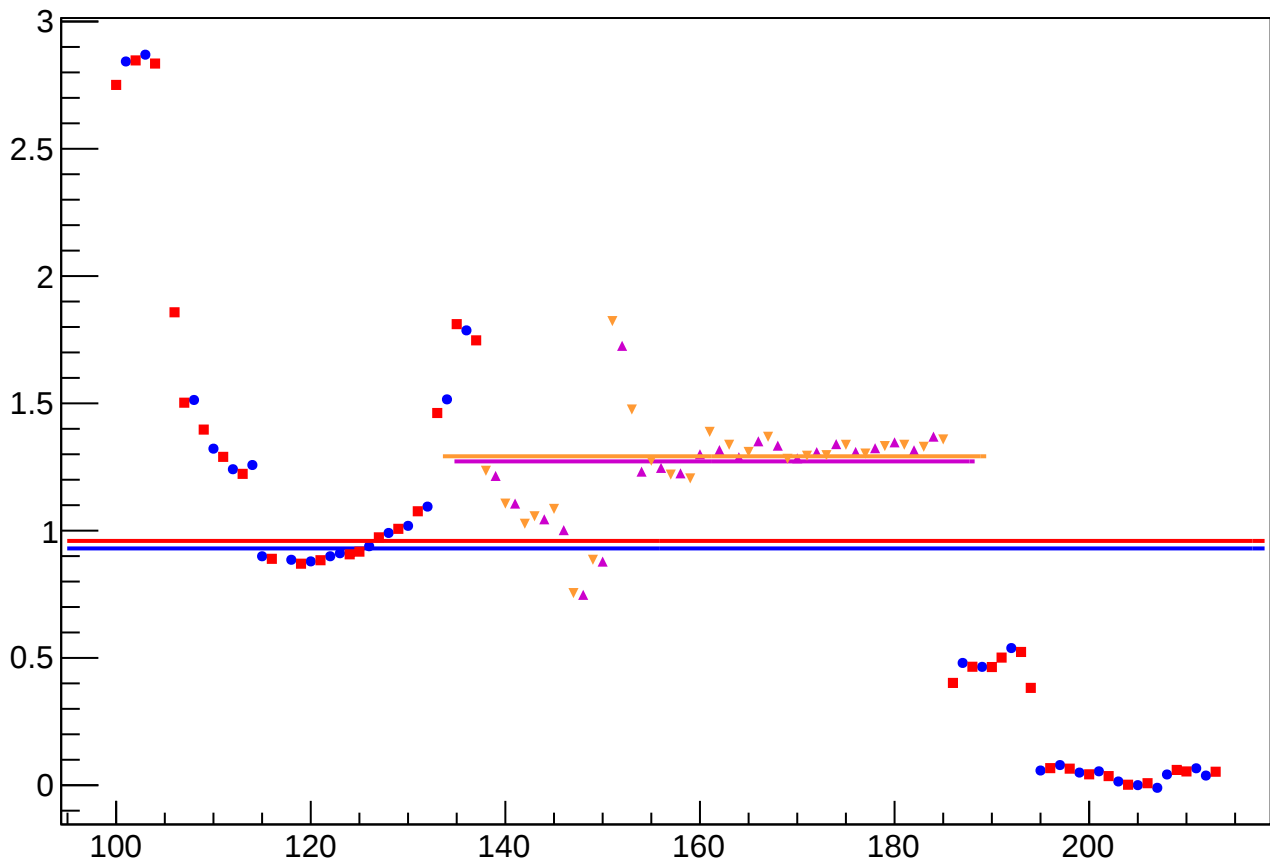
Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

+ sign 0.008+/-0.000 χ^2/NDF : 1265699.1/54

All: 0.008+/-0.000 χ^2/NDF : 2529667.5/111

- sign 0.008+/-0.000 χ^2/NDF : 1261032.5/56

yield_bpm1i04X_mean vs Slug



Right In: 0.930 $\pm$ 0.000 χ^2 /NDF: 135522228841.1/29

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 0.960 $\pm$ 0.000 χ^2 /NDF: 132467826342.6/33

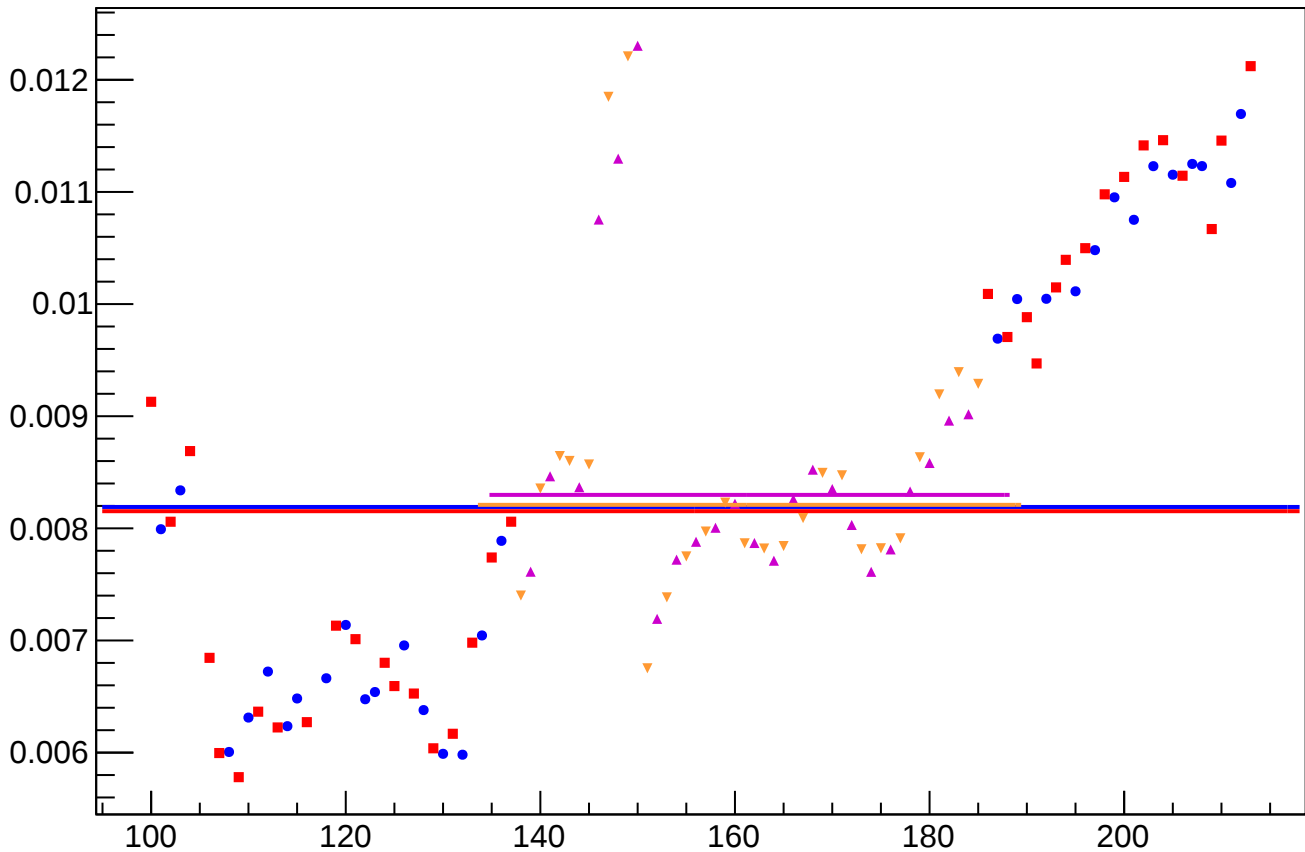
Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

+ sign 1.126 $\pm$ 0.000 χ^2 /NDF: 160638518387.8/54

All: 1.121 $\pm$ 0.000 χ^2 /NDF: 312580552644.1

- sign 1.116 $\pm$ 0.000 χ^2 /NDF: 151917488341.2/56

yield_bpm1i04X_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1839720.6/29

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:478864.9/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 2068295.7/33

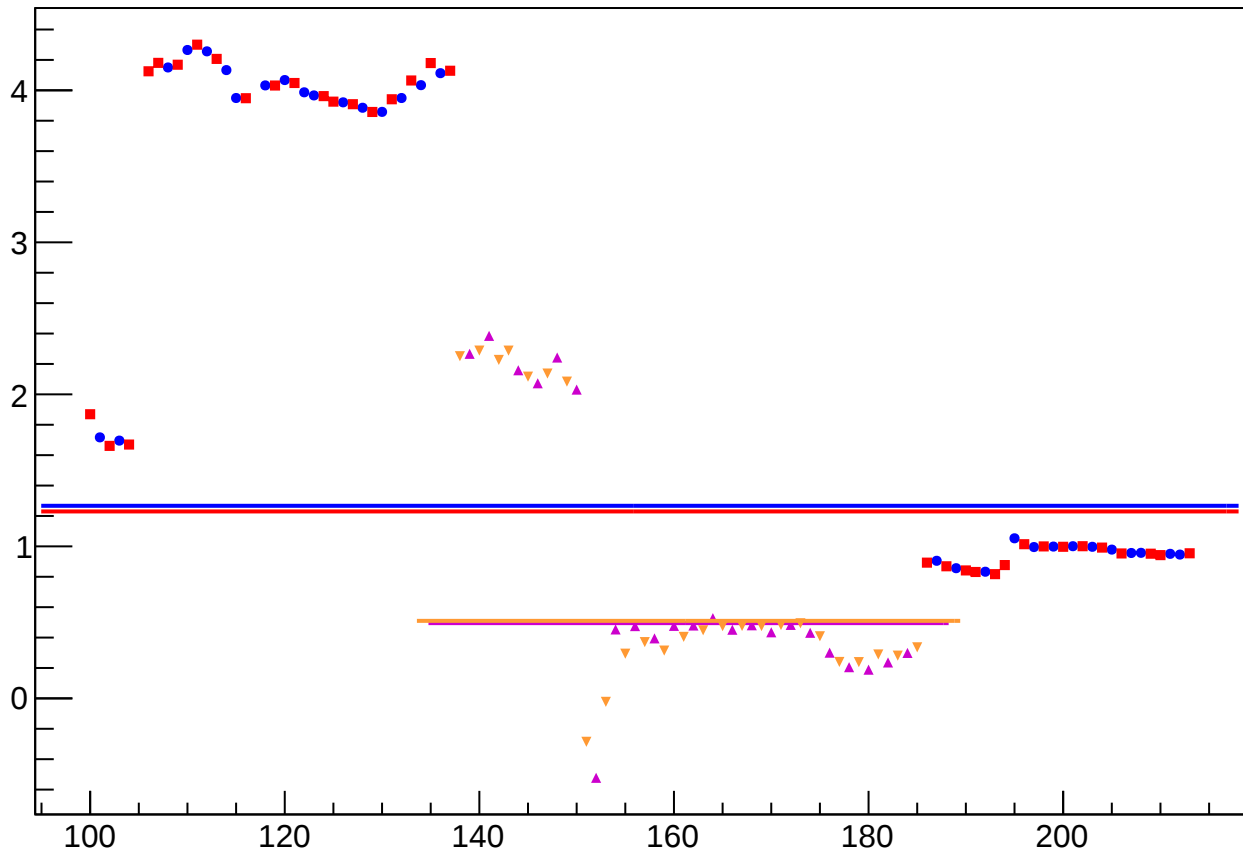
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:462022.1/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 2318671.7/54

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 4854436.4/111

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 2535467.7/56

yield_bpm1i04Y_mean vs Slug



Right In: 1.267 $\pm$ 0.000 χ^2 /NDF: 1516939505329.9/29

Left Out: 0.510 $\pm$ 0.000 χ^2 /NDF: 274818814912.4/24

Right Out: 1.230 $\pm$ 0.000 χ^2 /NDF: 1716529455397.1/33

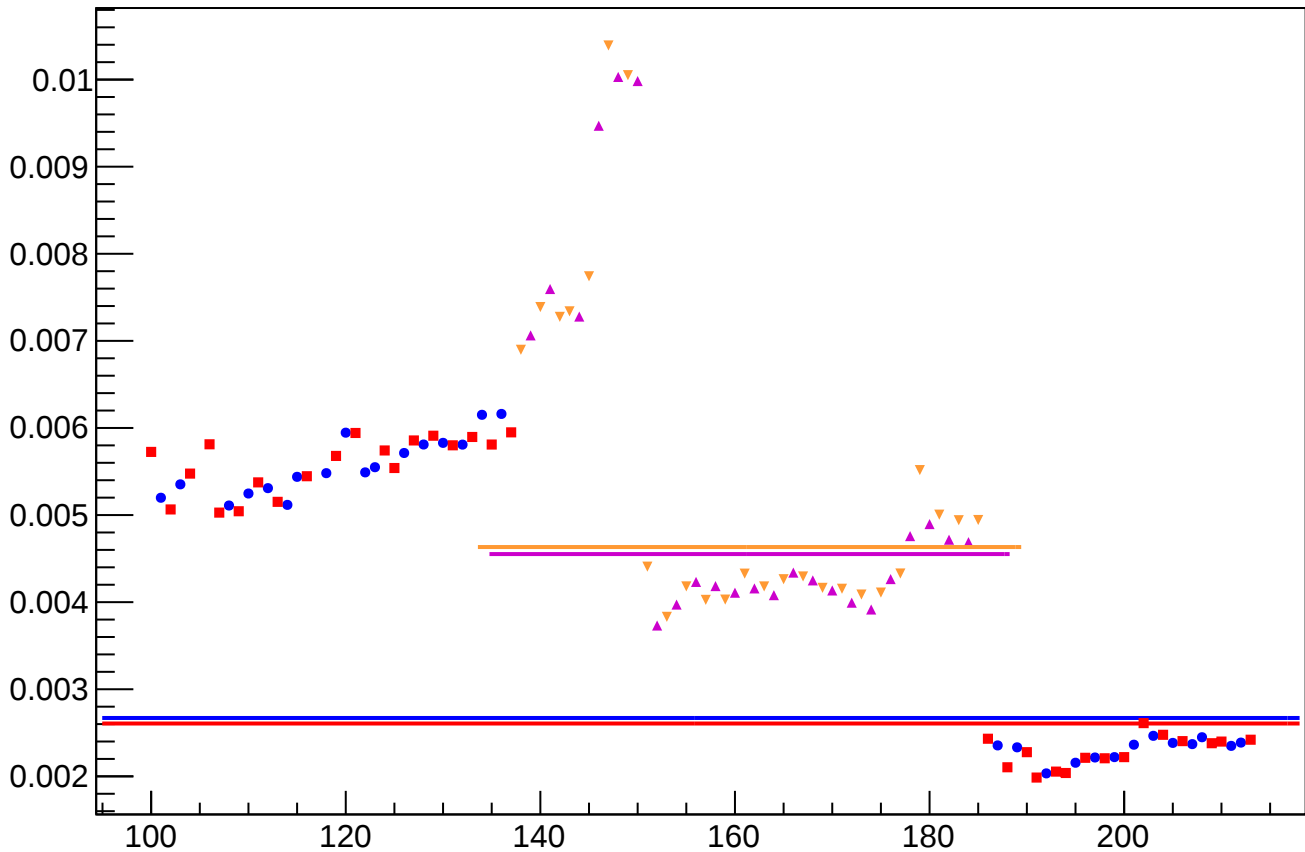
Left In: 0.495 $\pm$ 0.000 χ^2 /NDF: 268863202792.4/22

+ sign 1.043 $\pm$ 0.000 χ^2 /NDF: 2105139691743.6/54

All: 1.038 $\pm$ 0.000 χ^2 /NDF: 4390882334705.

- sign 1.034 $\pm$ 0.000 χ^2 /NDF: 2285636572120.3/56

yield_bpm1i04Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 4183620.8/29

Left Out: 0.005+/-0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4474345.7/33

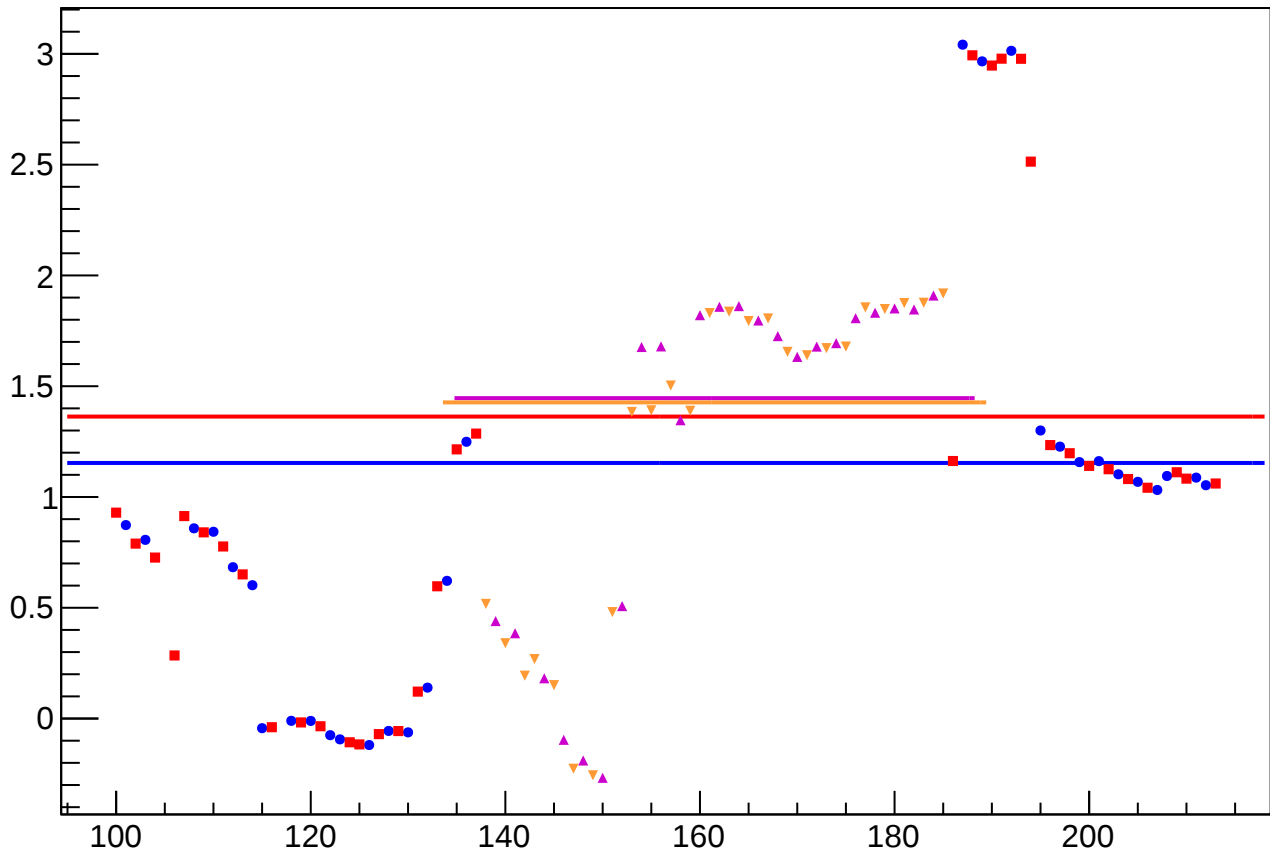
Left In: 0.005+/-0.000 χ^2/NDF : 2237666.9/22

+ sign 0.003+/-0.000 χ^2/NDF : 10511557.6/54

All: 0.003+/-0.000 χ^2/NDF : 21477596.6/111

- sign 0.003+/-0.000 χ^2/NDF : 10922380.1/56

yield_bpm1i06X_mean vs Slug



Right In: 1.154+/-0.000 χ^2/NDF : 72861504139.5/29

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.363+/-0.000 χ^2/NDF : 101181373221.0/33

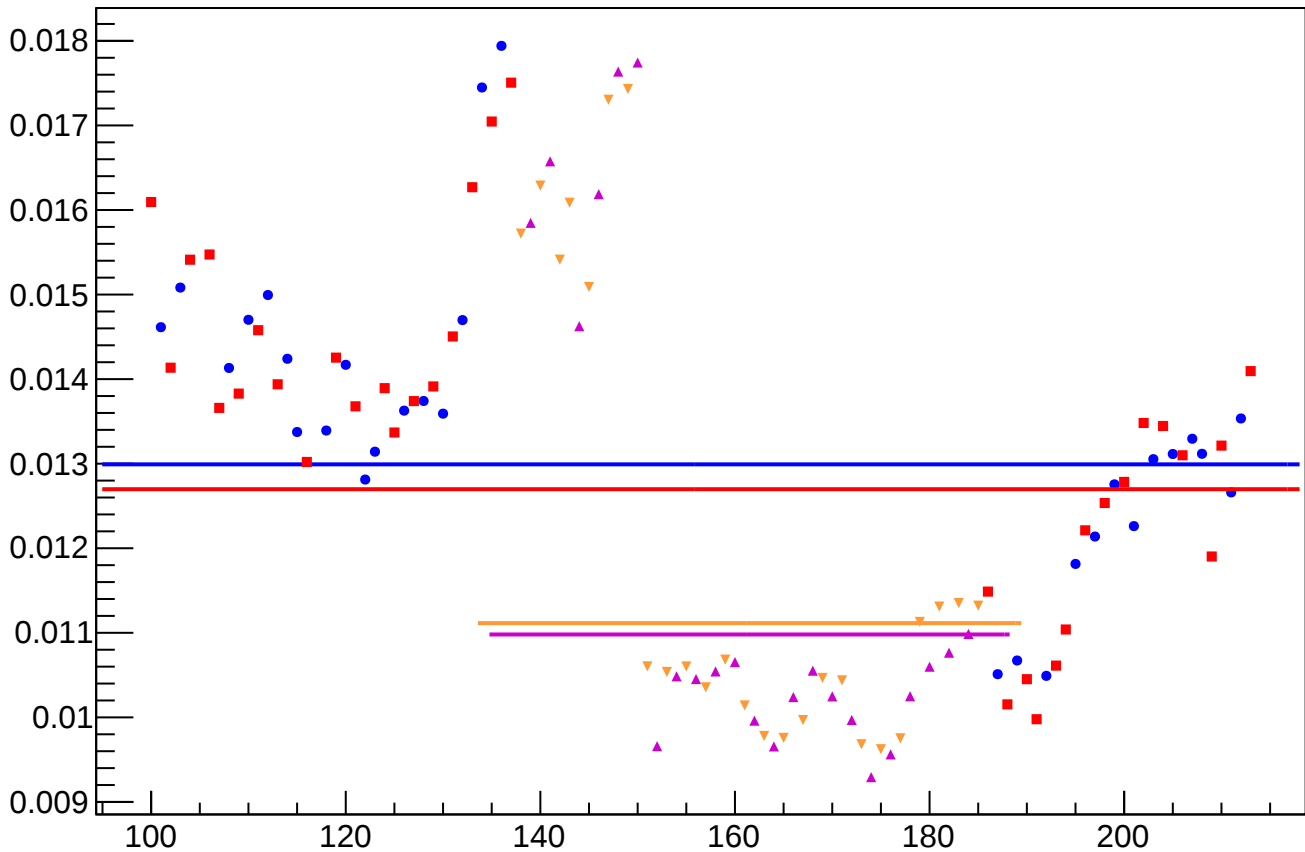
Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

+ sign 1.319+/-0.000 χ^2/NDF : 127033652623.3/54

All: 1.366+/-0.000 χ^2/NDF : 283359036494.6

- sign 1.410+/-0.000 χ^2/NDF : 155342009126.3/56

yield_bpm1i06X_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 439580.5/29

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 583366.2/33

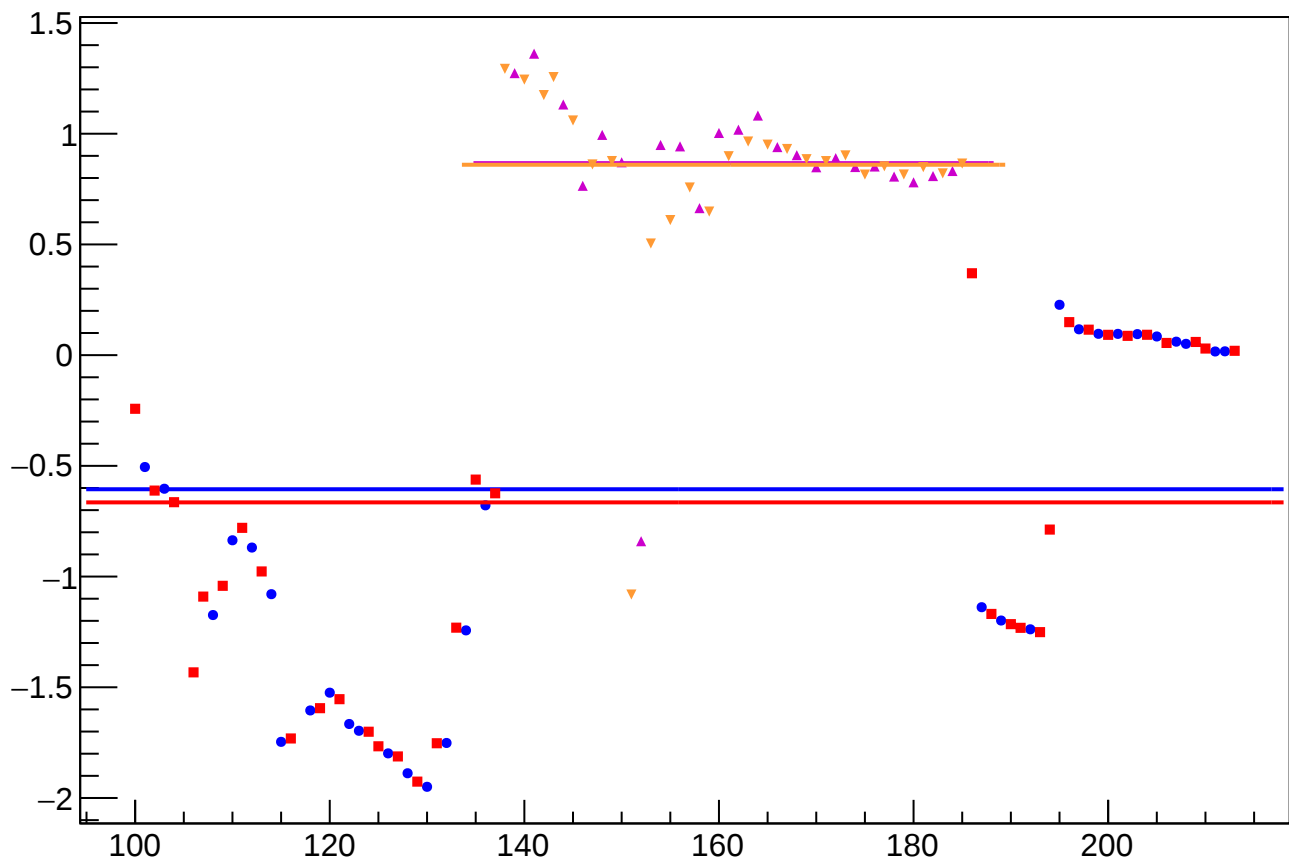
Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

+ sign 0.012+/-0.000 χ^2/NDF : 2061555.2/54

All: 0.012+/-0.000 χ^2/NDF : 4262841.3/111

- sign 0.012+/-0.000 χ^2/NDF : 2196998.4/56

yield_bpm1i06Y_mean vs Slug



Right In: -0.606+/-0.000 χ^2 /NDF: 190366981923.6/29

Left Out: 0.860+/-0.000 χ^2 /NDF: 126335891175.4/24

Right Out: -0.665+/-0.000 χ^2 /NDF: 180119658750.2/33

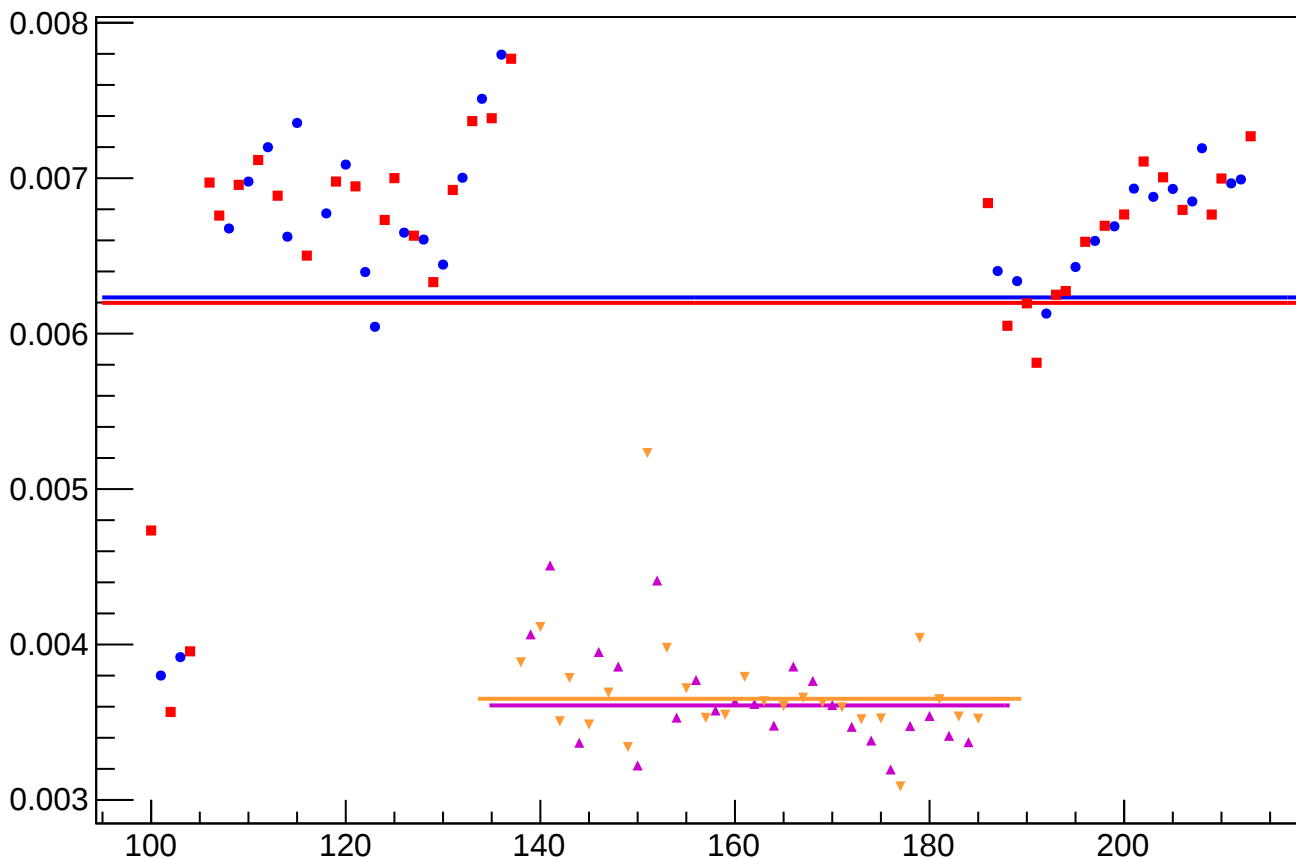
Left In: 0.867+/-0.000 χ^2 /NDF: 147039402944.6/22

+ sign 0.520+/-0.000 χ^2 /NDF: 941289235289.2/54

All: 0.498+/-0.000 χ^2 /NDF: 1992552038551.

- sign 0.476+/-0.000 χ^2 /NDF: 1049731860691.4/56

yield_bpm1i06Y_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1060015.8/29

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1153690.3/33

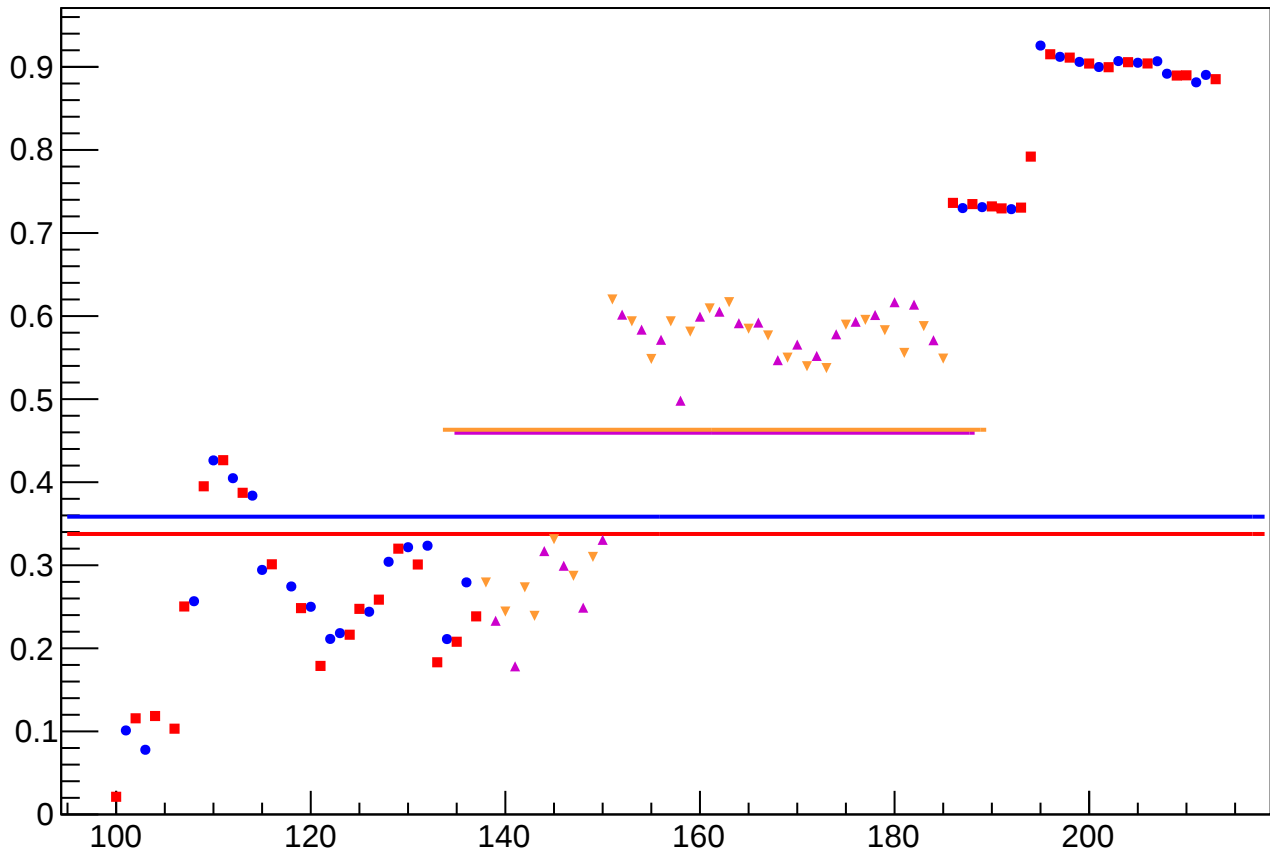
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF: 227861.4/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 5175262.8/54

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 10686467.0/111

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 5510637.9/56

yield_bpm2i01X_mean vs Slug



Right In: 0.358 $\pm$ 0.000 χ^2 /NDF: 177778204807.2/29

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF:102506270538.7/24

Right Out: 0.338 $\pm$ 0.000 χ^2 /NDF: 193531029057.9/33

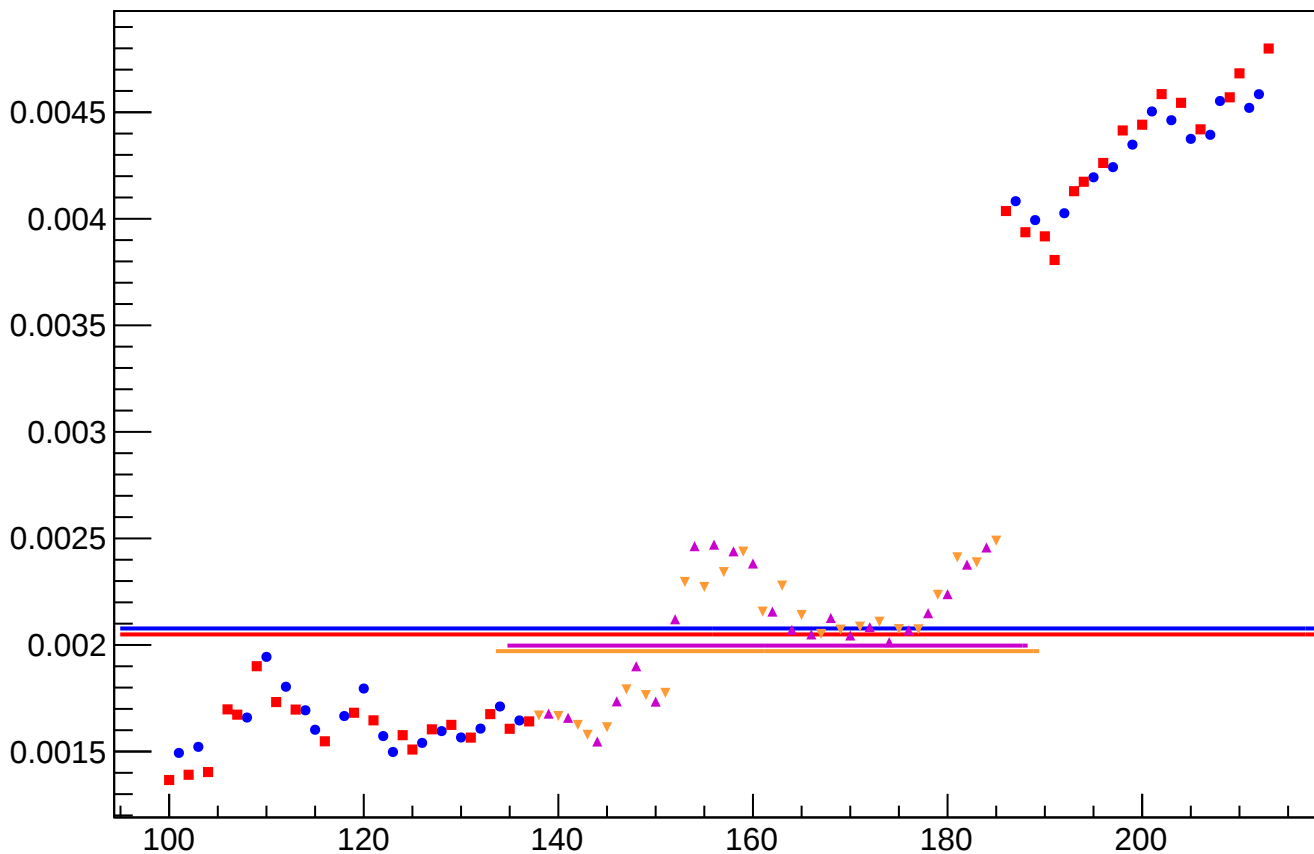
Left In: 0.460 $\pm$ 0.000 χ^2 /NDF:104559088628.4/22

+ sign 0.422 $\pm$ 0.000 χ^2 /NDF: 299863873161.8/54

All: 0.414 $\pm$ 0.000 χ^2 /NDF: 626187241211.6

- sign 0.406 $\pm$ 0.000 χ^2 /NDF: 325353518574.8/56

yield_bpm2i01X_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 6066827.7/29

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6837828.4/33

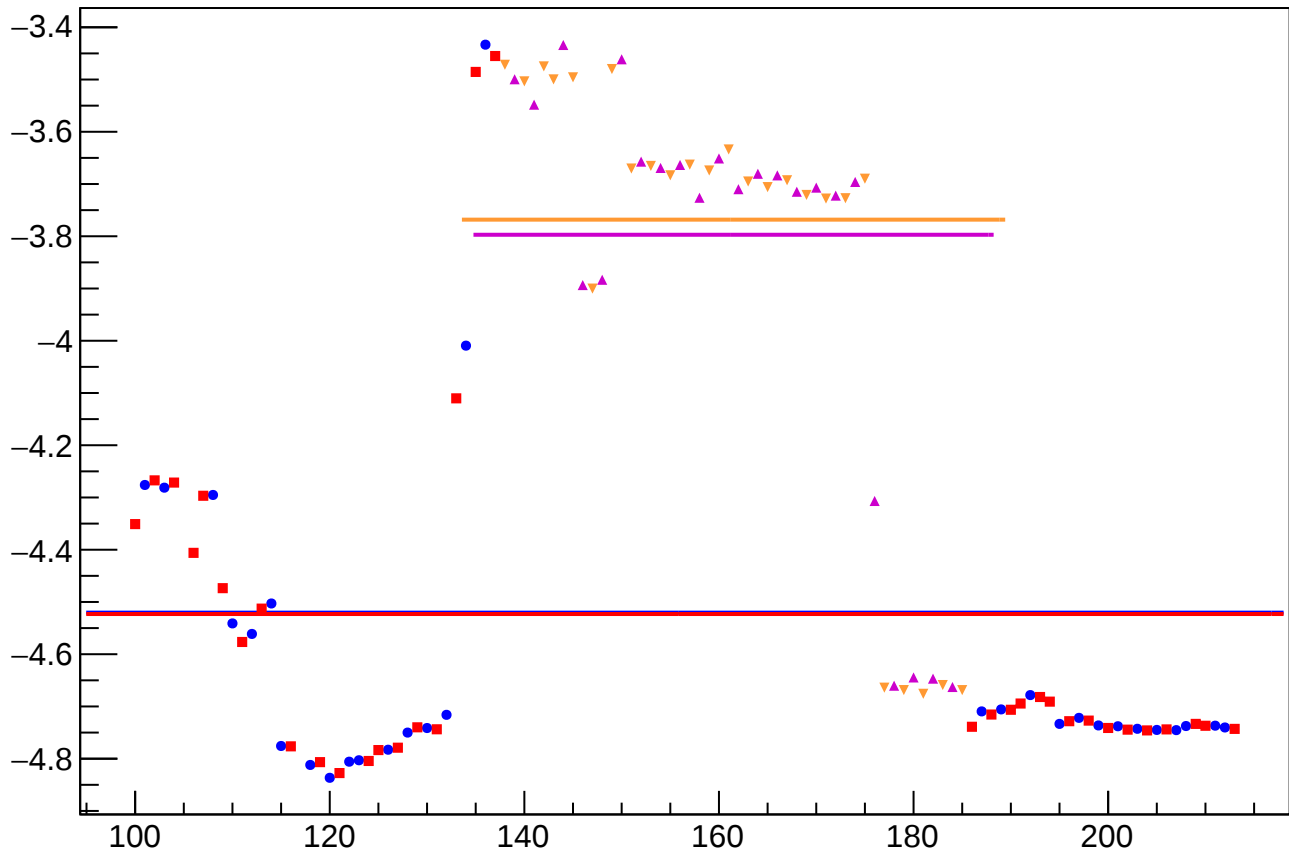
Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

+ sign 0.002+/-0.000 χ^2/NDF : 6837527.6/54

All: 0.002+/-0.000 χ^2/NDF : 14352233.2/111

- sign 0.002+/-0.000 χ^2/NDF : 7514287.9/56

yield_bpm2i01Y_mean vs Slug



Right In: -4.520 ± 0.000 χ^2/NDF : 441858139018.6/29

Left Out: -3.768 ± 0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.523 ± 0.000 χ^2/NDF : 378776501064.5/33

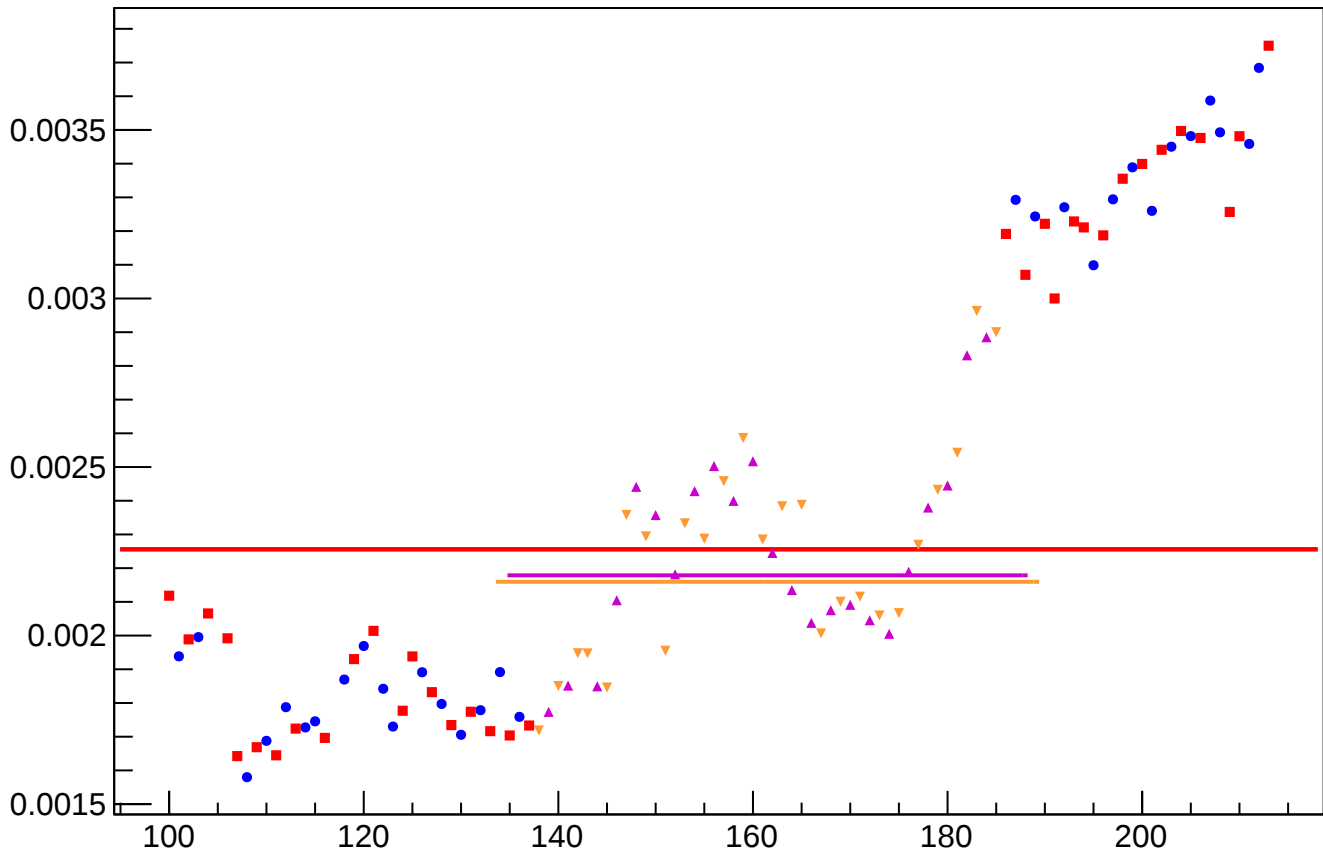
Left In: -3.797 ± 0.000 χ^2/NDF : 444886272608.9/22

+ sign -4.086 ± 0.000 χ^2/NDF : 1871260835913.0/5

All: -4.109 ± 0.000 χ^2/NDF : 3564726778468

- sign -4.132 ± 0.000 χ^2/NDF : 1686608644208.1/50

yield_bpm2i01Y_rms vs Slug



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2920150.1/29

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:547831.5/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3098988.7/33

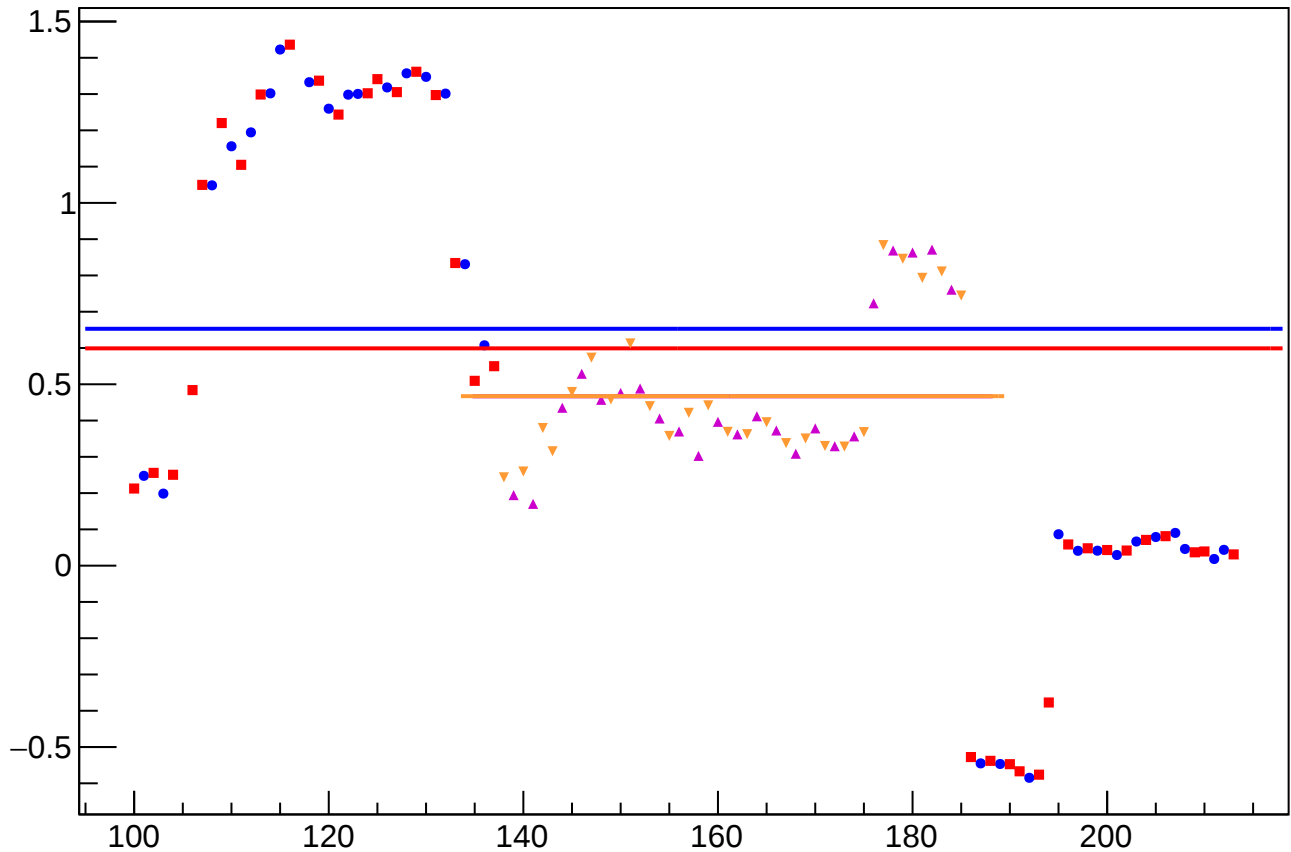
Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:463279.7/22

+ sign 0.002 $\pm$ 0.000 χ^2 /NDF: 3497729.9/54

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 7081018.1/111

- sign 0.002 $\pm$ 0.000 χ^2 /NDF: 3581954.2/56

yield_bpm2i02X_mean vs Slug



Right In: 0.653 ± 0.000 χ^2/NDF : 81544949325.6/29

Left Out: 0.467 ± 0.000 χ^2/NDF : 7359344143.3/24

+ sign 0.557 ± 0.000 χ^2/NDF : 92374003470.8/54

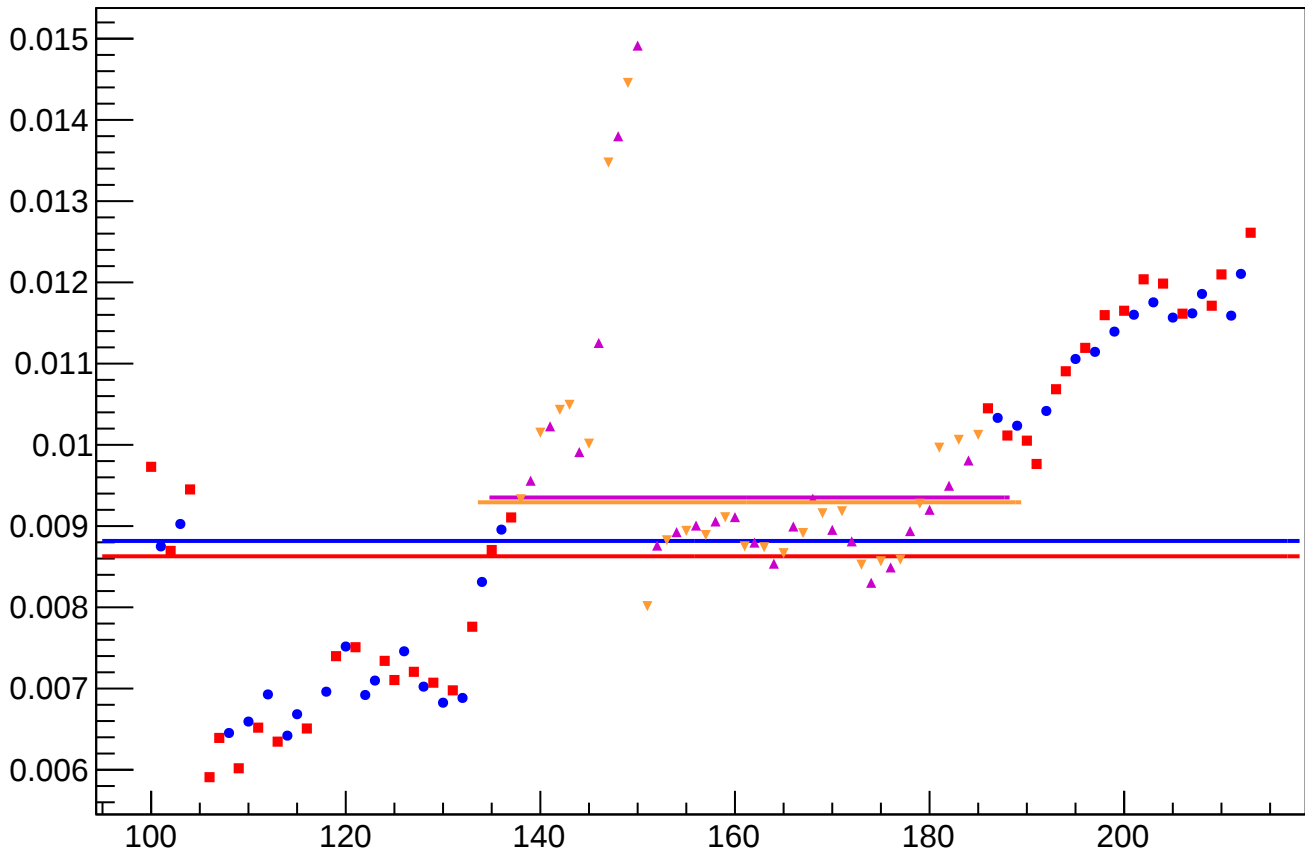
Right Out: 0.599 ± 0.000 χ^2/NDF : 100774787487.7/33

All: 0.546 ± 0.000 χ^2/NDF : 203058241185.3

- sign 0.537 ± 0.000 χ^2/NDF : 110602717118.4/56

Left In: 0.467 ± 0.000 χ^2/NDF : 8036741308.0/22

yield_bpm2i02X_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1639447.7/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:528279.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2068895.0/33

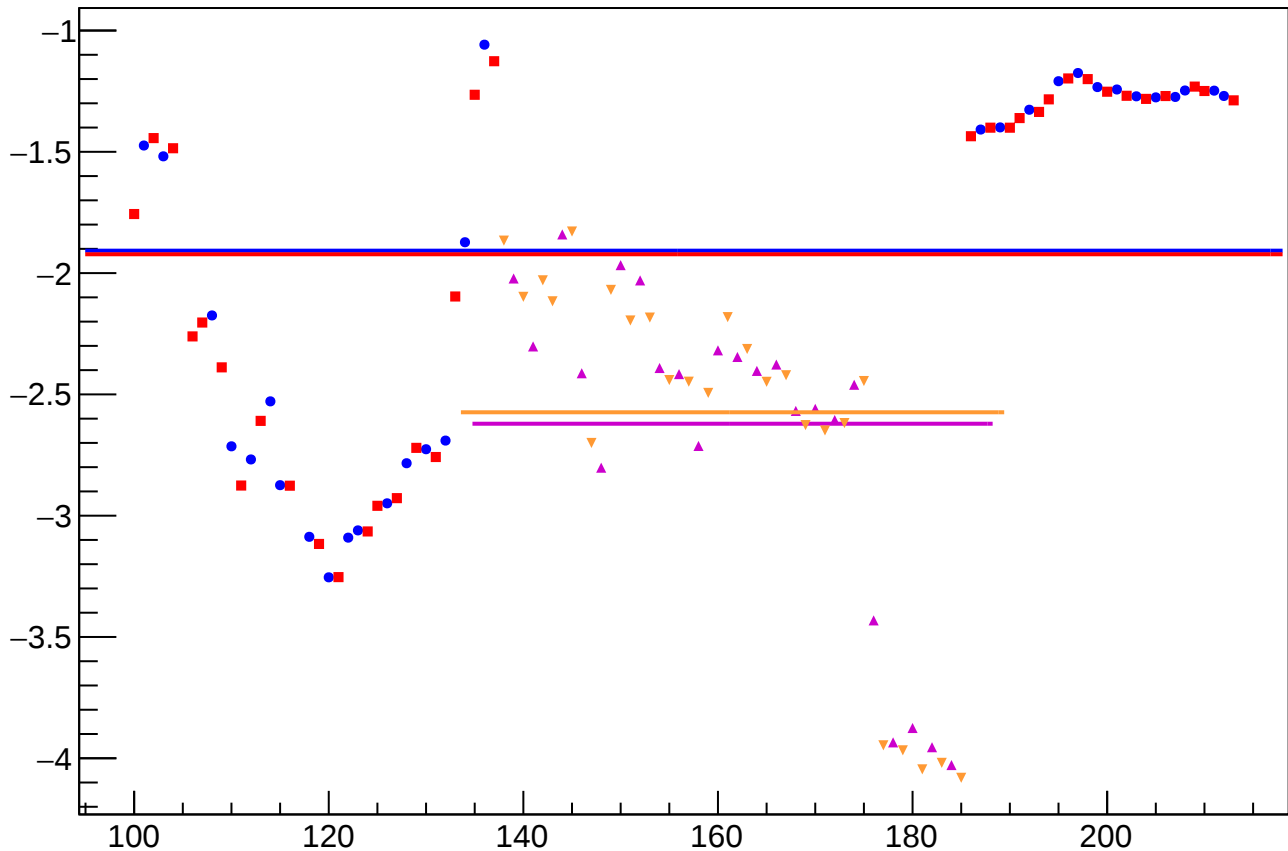
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:557555.2/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2213260.5/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4950747.9/111

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 2733895.7/56

yield_bpm2i02Y_mean vs Slug



Right In: -1.908+/-0.000 χ^2/NDF : 132305229762.9/29

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -1.922+/-0.000 χ^2/NDF : 130742222161.9/33

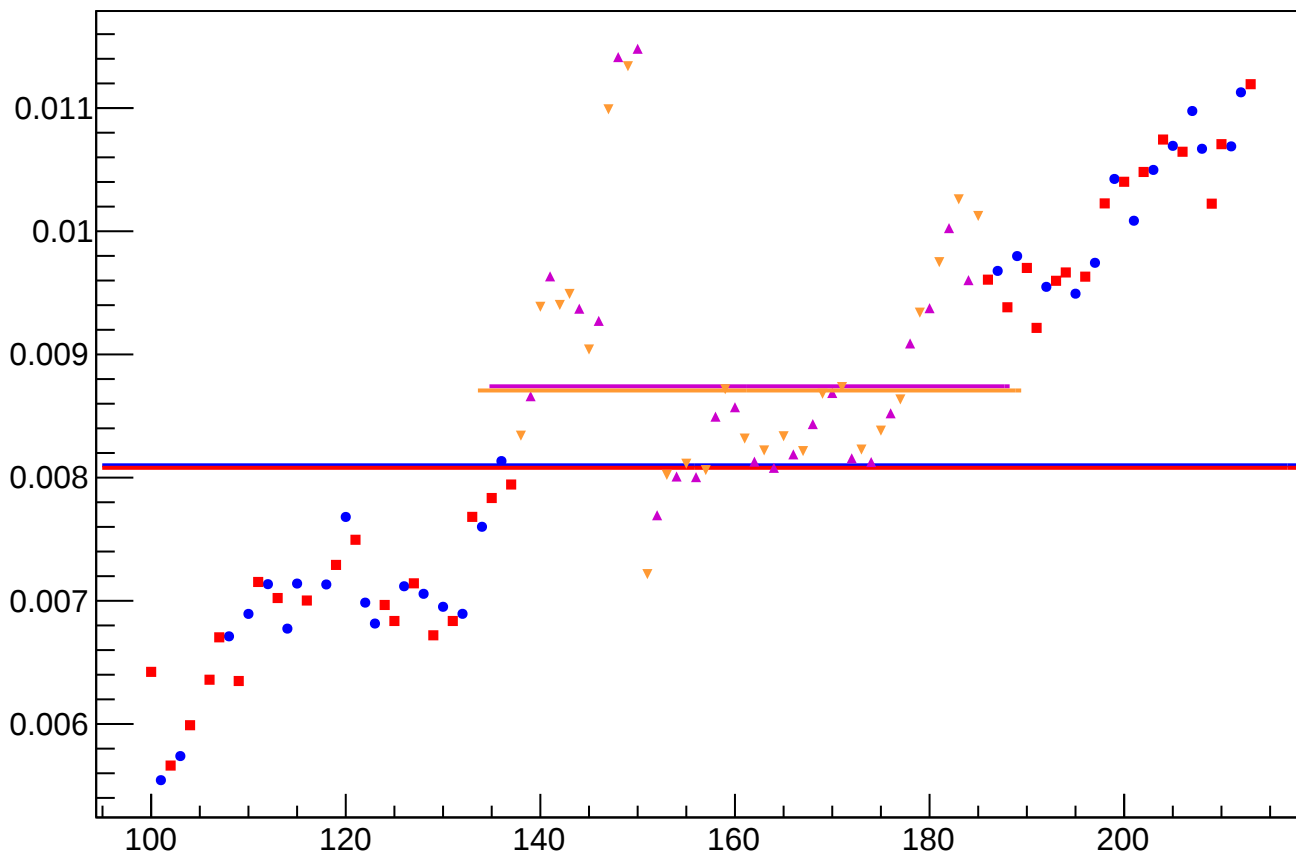
Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

+ sign -2.247+/-0.000 χ^2/NDF : 283679485004.3/54

All: -2.249+/-0.000 χ^2/NDF : 553290688150.3

- sign -2.251+/-0.000 χ^2/NDF : 269607523672.4/56

yield_bpm2i02Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 1516154.3/29

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1516109.3/33

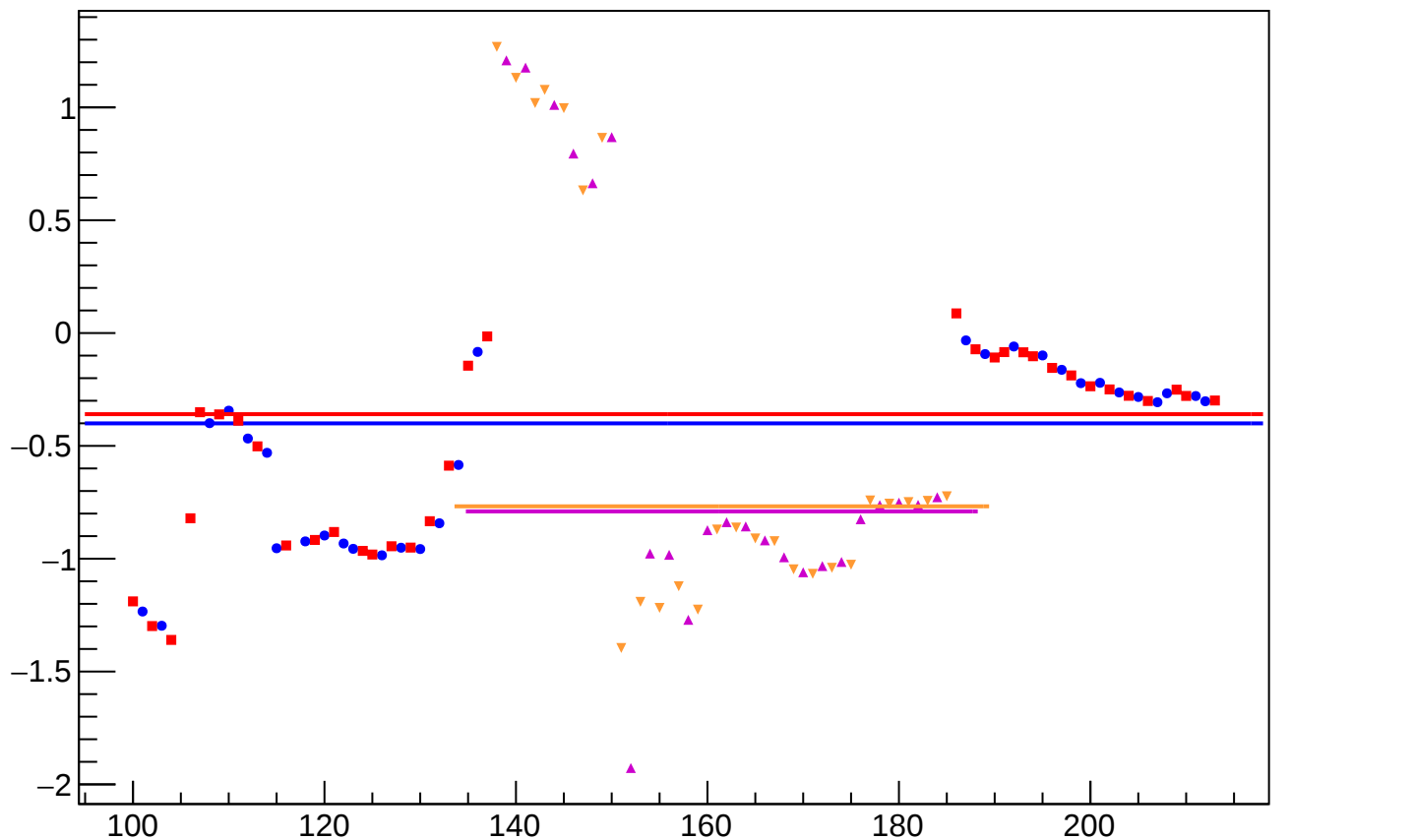
Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

+ sign 0.008+/-0.000 χ^2/NDF : 1972321.1/54

All: 0.008+/-0.000 χ^2/NDF : 3946376.6/111

- sign 0.008+/-0.000 χ^2/NDF : 1973890.0/56

yield_bpm0i01X_mean vs Slug



Right In: -0.400 $\pm$ 0.000 χ^2 /NDF: 22890434067.9/29

Left Out: -0.768 $\pm$ 0.000 χ^2 /NDF:120774855982.9/24

Right Out: -0.359 $\pm$ 0.000 χ^2 /NDF: 25317389516.4/33

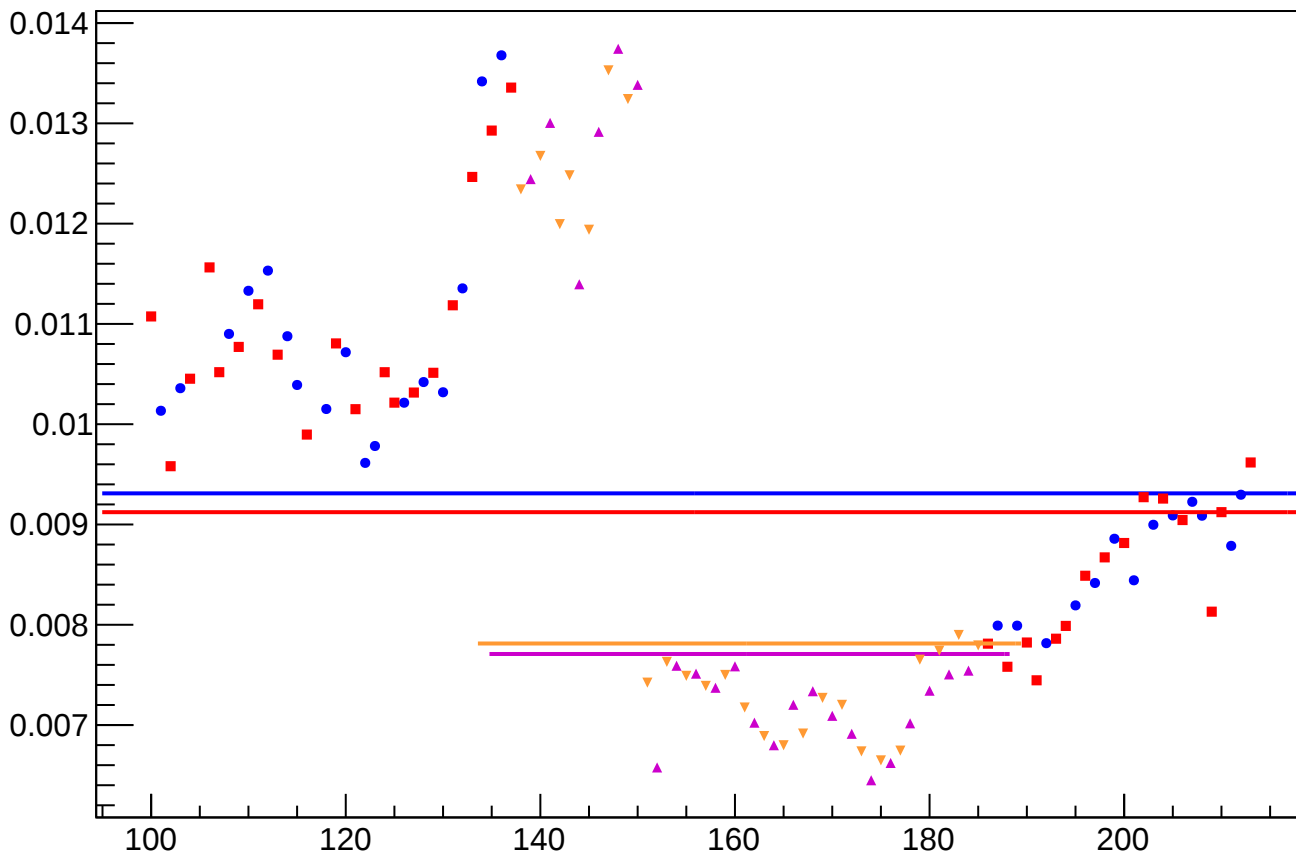
Left In: -0.790 $\pm$ 0.000 χ^2 /NDF:123452478408.2/22

+ sign -0.626 $\pm$ 0.000 χ^2 /NDF: 158403720385.3/54

All: -0.617 $\pm$ 0.000 χ^2 /NDF: 328630856642.2

- sign -0.608 $\pm$ 0.000 χ^2 /NDF: 170155829200.9/56

yield_bpm0i01X_rms vs Slug



Right In: 0.009+/-0.000 χ^2/NDF : 547566.1/29

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 654300.6/33

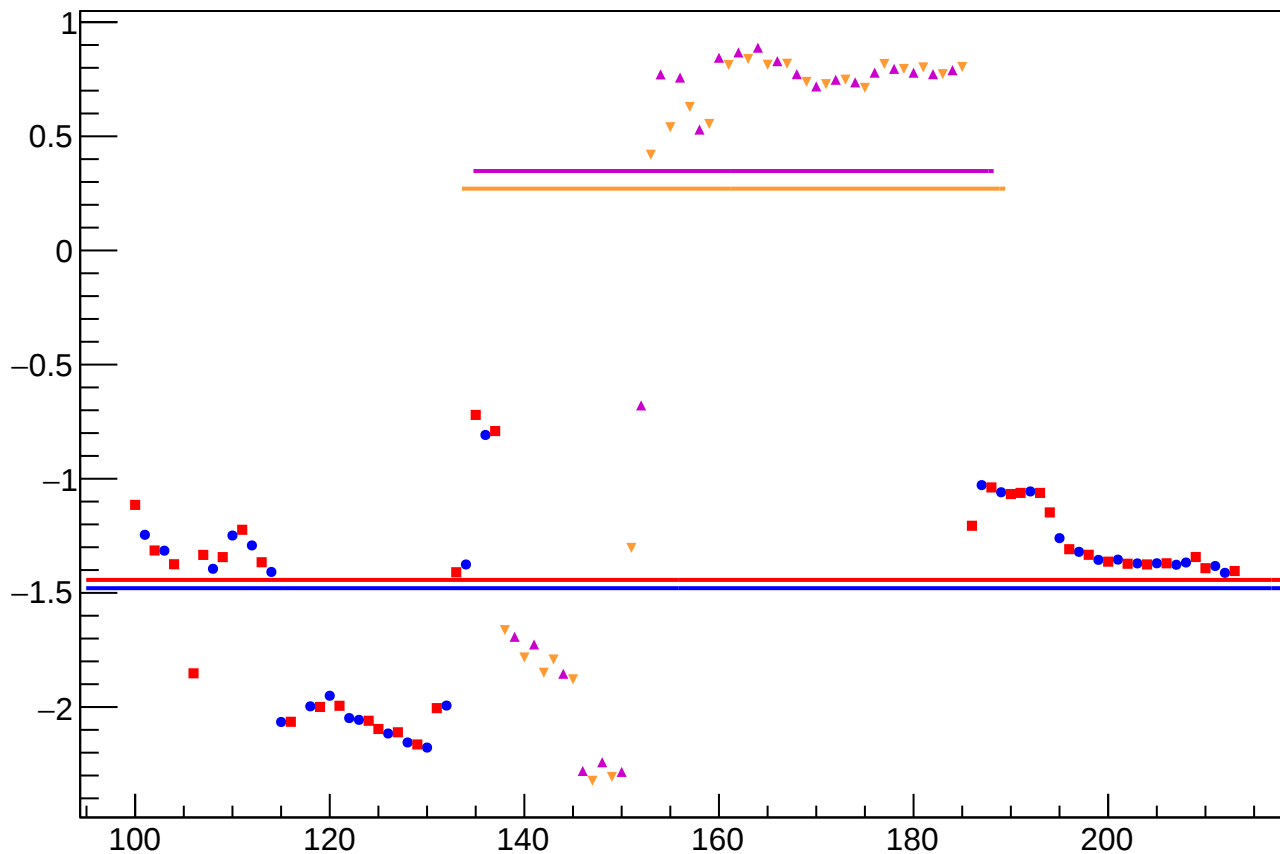
Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

+ sign 0.008+/-0.000 χ^2/NDF : 2742658.5/54

All: 0.008+/-0.000 χ^2/NDF : 5607700.2/111

- sign 0.008+/-0.000 χ^2/NDF : 2861609.8/56

yield_bpm0i01Y_mean vs Slug



Right In: -1.479 ± 0.000 χ^2/NDF : 174984019192.3/29

Left Out: 0.271 ± 0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.443 ± 0.000 χ^2/NDF : 164550282262.6/33

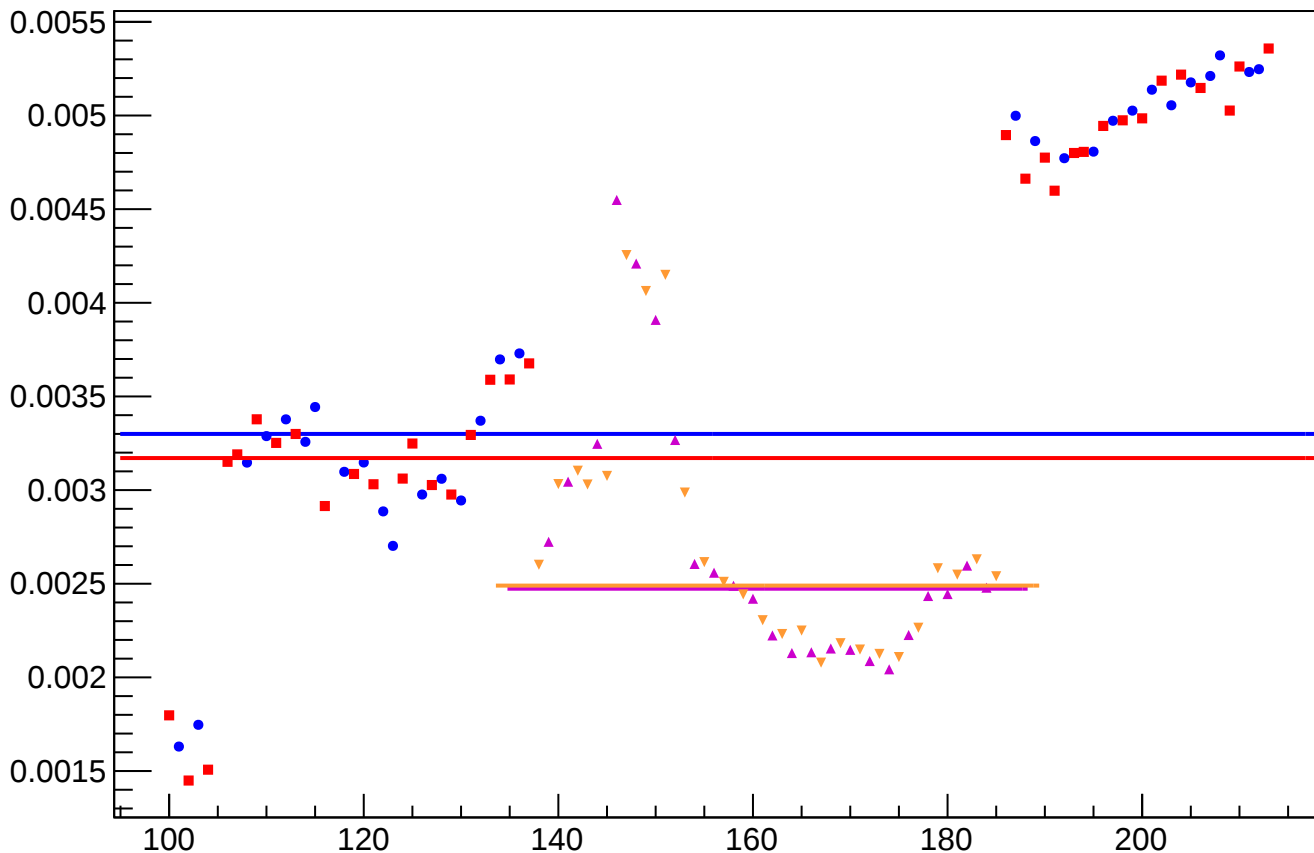
Left In: 0.348 ± 0.000 χ^2/NDF : 2274004426513.8/22

+ sign -0.279 ± 0.000 χ^2/NDF : 5282346847749.7/5

All: -0.283 ± 0.000 χ^2/NDF : 1054729065955

- sign -0.288 ± 0.000 χ^2/NDF : 5264809041971.2/50

yield_bpm0i01Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 4090411.2/29

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5220375.6/33

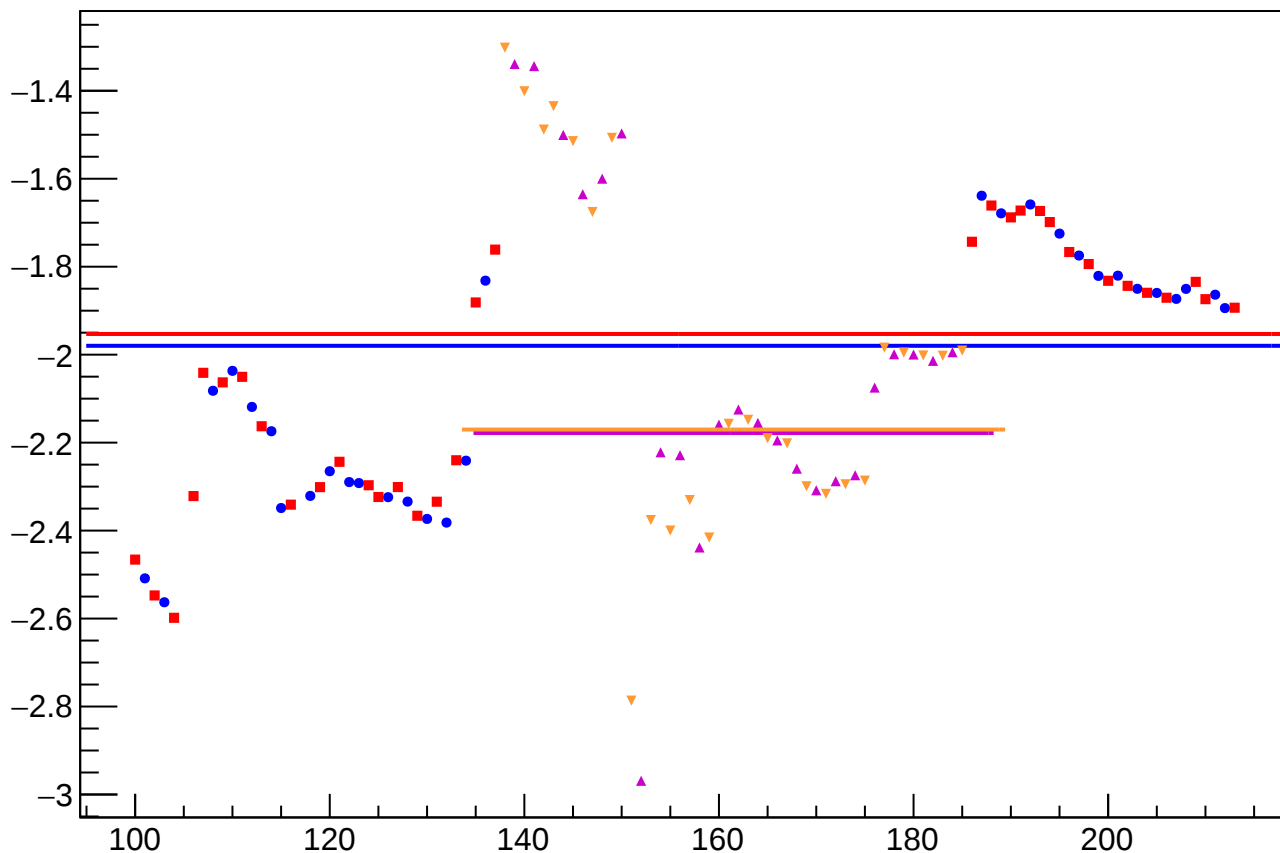
Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

+ sign 0.003+/-0.000 χ^2/NDF : 6241530.5/54

All: 0.003+/-0.000 χ^2/NDF : 13456844.5/111

- sign 0.003+/-0.000 χ^2/NDF : 7213188.0/56

yield_bpm0i01aX_mean vs Slug



Right In: -1.980 ± 0.000 χ^2/NDF : 31294778992.2/29

Left Out: -2.170 ± 0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.953 ± 0.000 χ^2/NDF : 35330349310.6/33

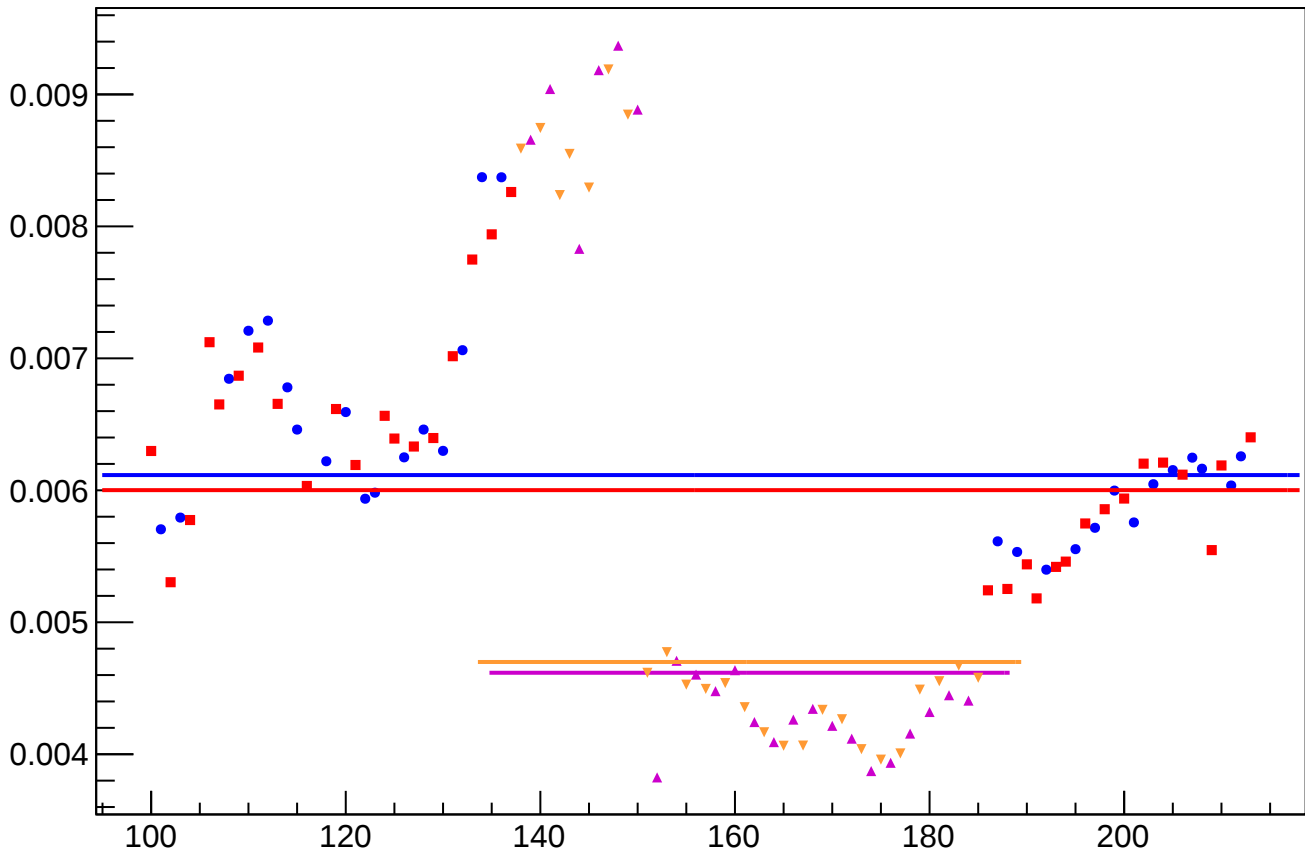
Left In: -2.178 ± 0.000 χ^2/NDF : 73402051113.3/22

+ sign -2.103 ± 0.000 χ^2/NDF : 100933003531.0/54

All: -2.097 ± 0.000 χ^2/NDF : 224112788958.9

- sign -2.091 ± 0.000 χ^2/NDF : 123094030559.3/56

yield_bpm0i01aX_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 303845.7/29

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 370023.1/33

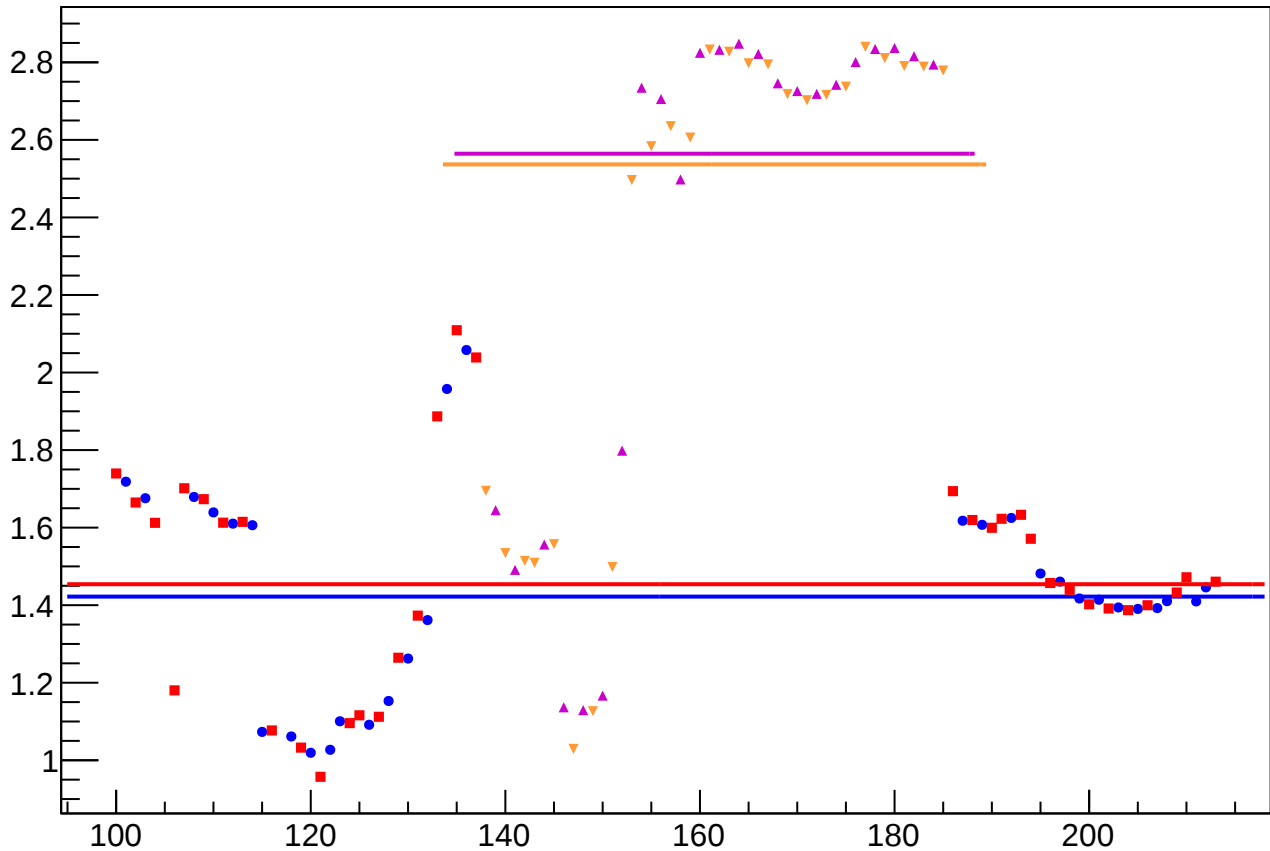
Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

+ sign 0.005+/-0.000 χ^2/NDF : 3693796.4/54

All: 0.005+/-0.000 χ^2/NDF : 7519479.4/111

- sign 0.005+/-0.000 χ^2/NDF : 3823136.8/56

yield_bpm0i01aY_mean vs Slug



Right In: 1.422+/-0.000 χ^2/NDF : 174174584668.5/29

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177000558058.9/33

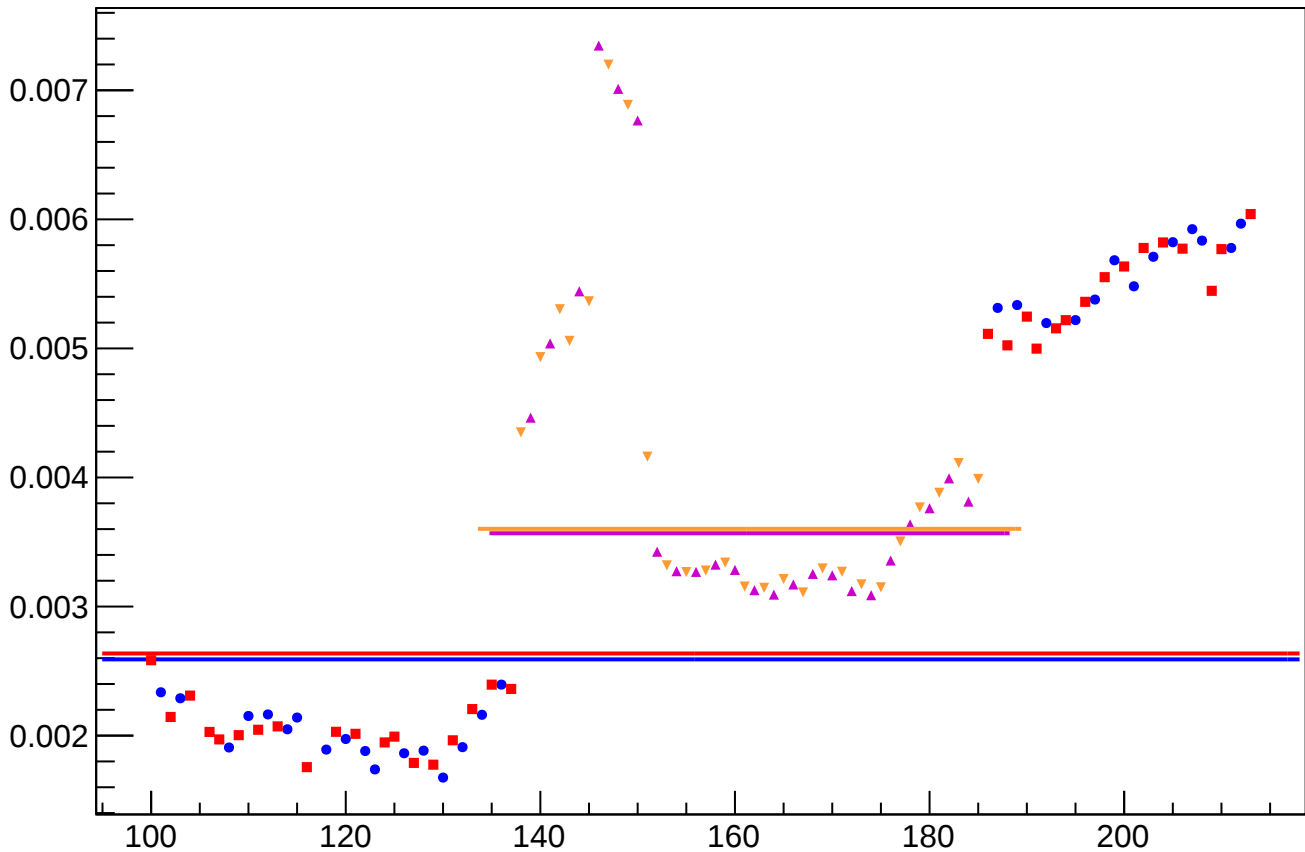
Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

+ sign 1.885+/-0.000 χ^2/NDF : 1378915086873.1/54

All: 1.887+/-0.000 χ^2/NDF : 2736875997833.

- sign 1.888+/-0.000 χ^2/NDF : 1357950911131.9/56

yield_bpm0i01aY_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 6450838.1/29

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1410717.8/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 6729197.3/33

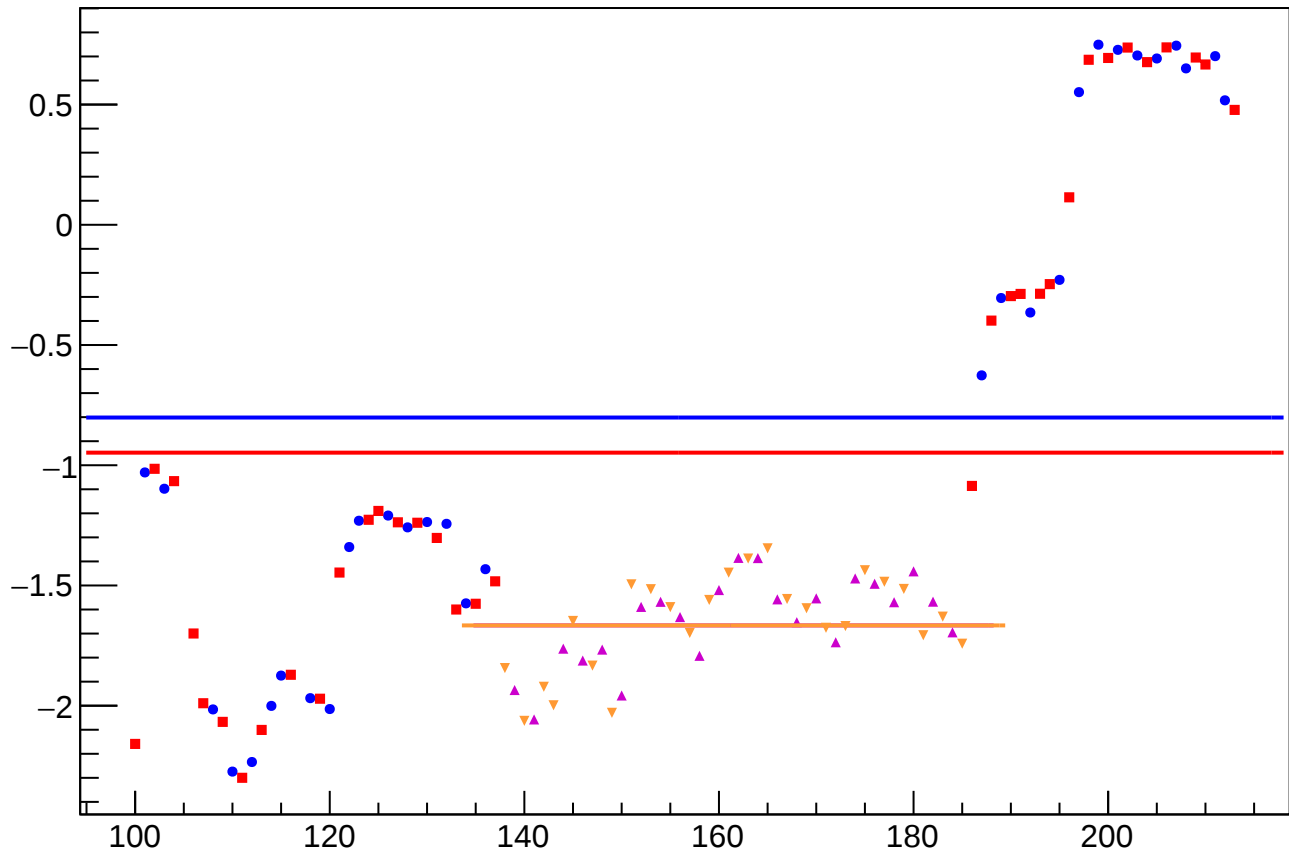
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1563028.0/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 9401734.7/54

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 18990437.4/111

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 9588344.7/56

yield_bpm0l01X_mean vs Slug



Right In: -0.802+/-0.000 χ^2/NDF : 220703792741.4/29

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -0.948+/-0.000 χ^2/NDF : 250548390922.0/33

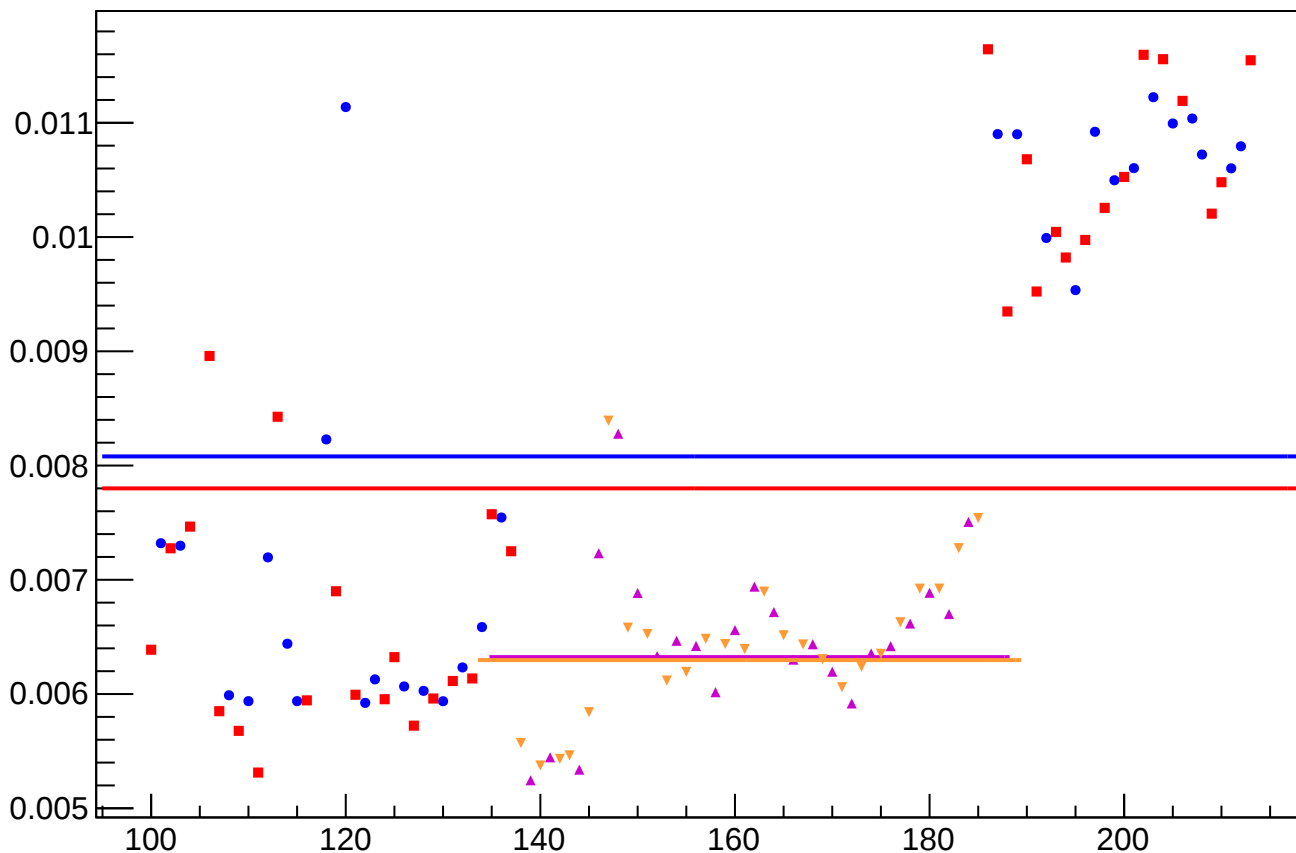
Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

+ sign -1.380+/-0.000 χ^2/NDF : 348220194305.2/54

All: -1.385+/-0.000 χ^2/NDF : 694086317411.2

- sign -1.391+/-0.000 χ^2/NDF : 345821454525.2/56

yield_bpm0l01X_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 1863252.8/29

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2254205.1/33

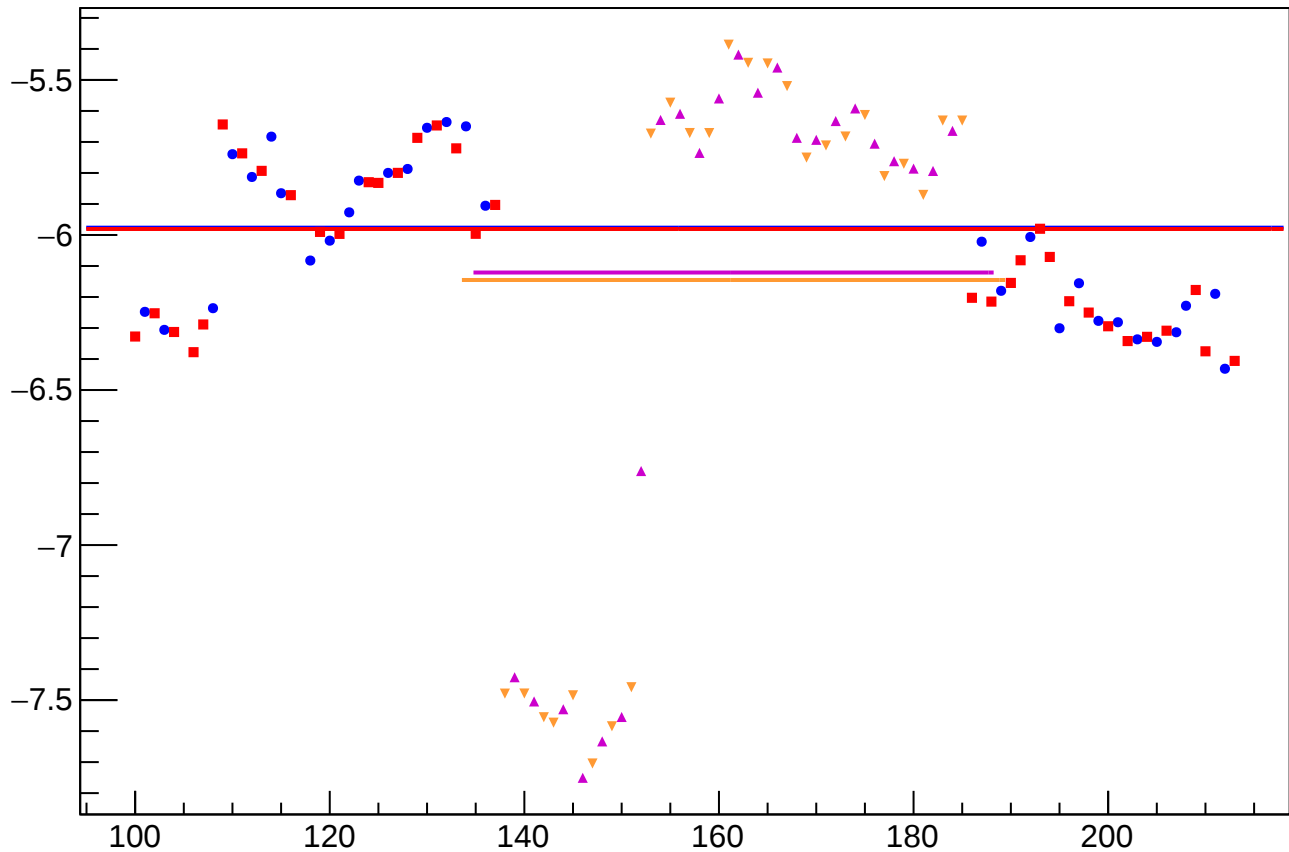
Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

+ sign 0.007+/-0.000 χ^2/NDF : 3102543.9/54

All: 0.007+/-0.000 χ^2/NDF : 6372116.0/111

- sign 0.007+/-0.000 χ^2/NDF : 3269572.0/56

yield_bpm0l01Y_mean vs Slug



Right In: -5.976+/-0.000 χ^2/NDF : 16201313893.8/29

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.981+/-0.000 χ^2/NDF : 17717423760.2/33

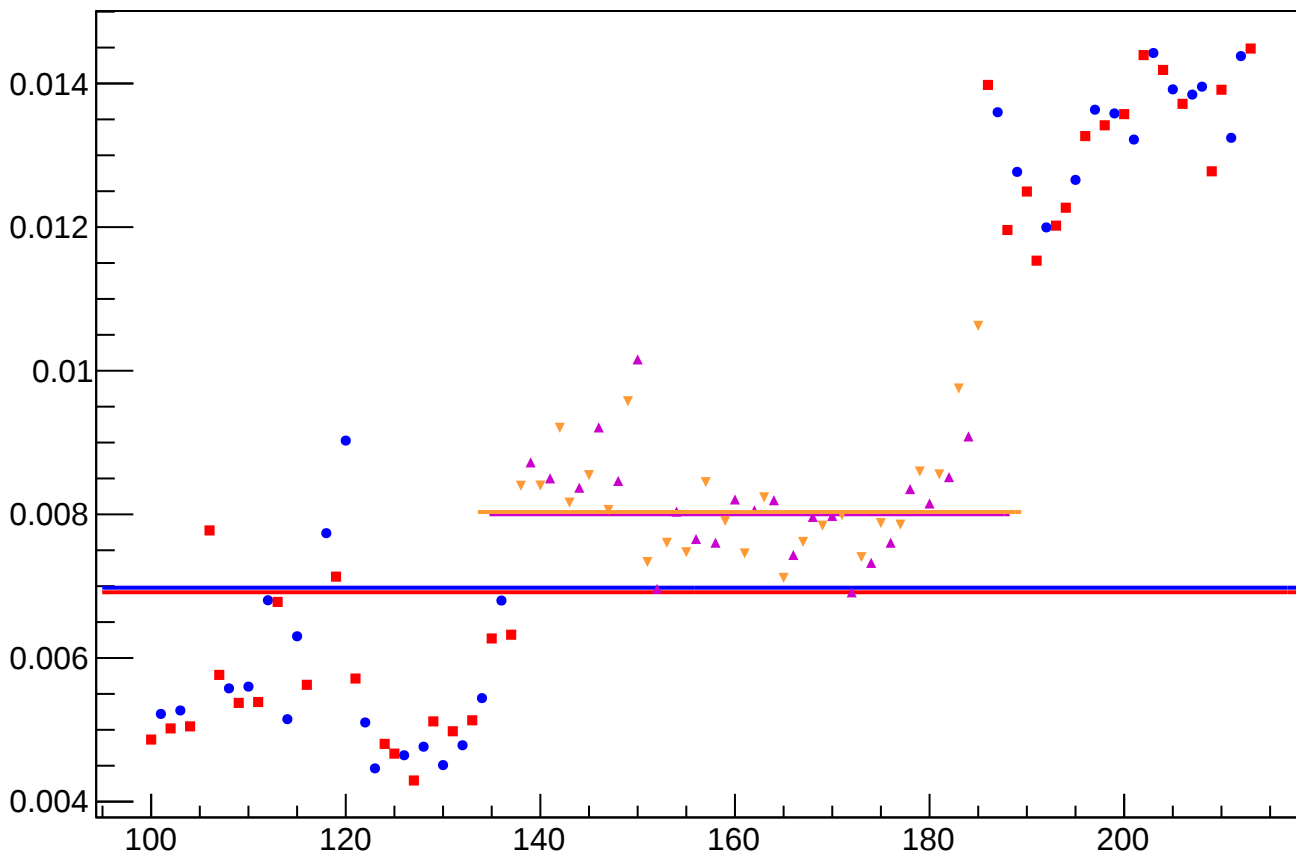
Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

+ sign -6.062+/-0.000 χ^2/NDF : 205185067337.9/54

All: -6.054+/-0.000 χ^2/NDF : 383859462412.2

- sign -6.046+/-0.000 χ^2/NDF : 178614668043.4/56

yield_bpm0l01Y_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5515562.1/29

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:205762.2/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 5796891.7/33

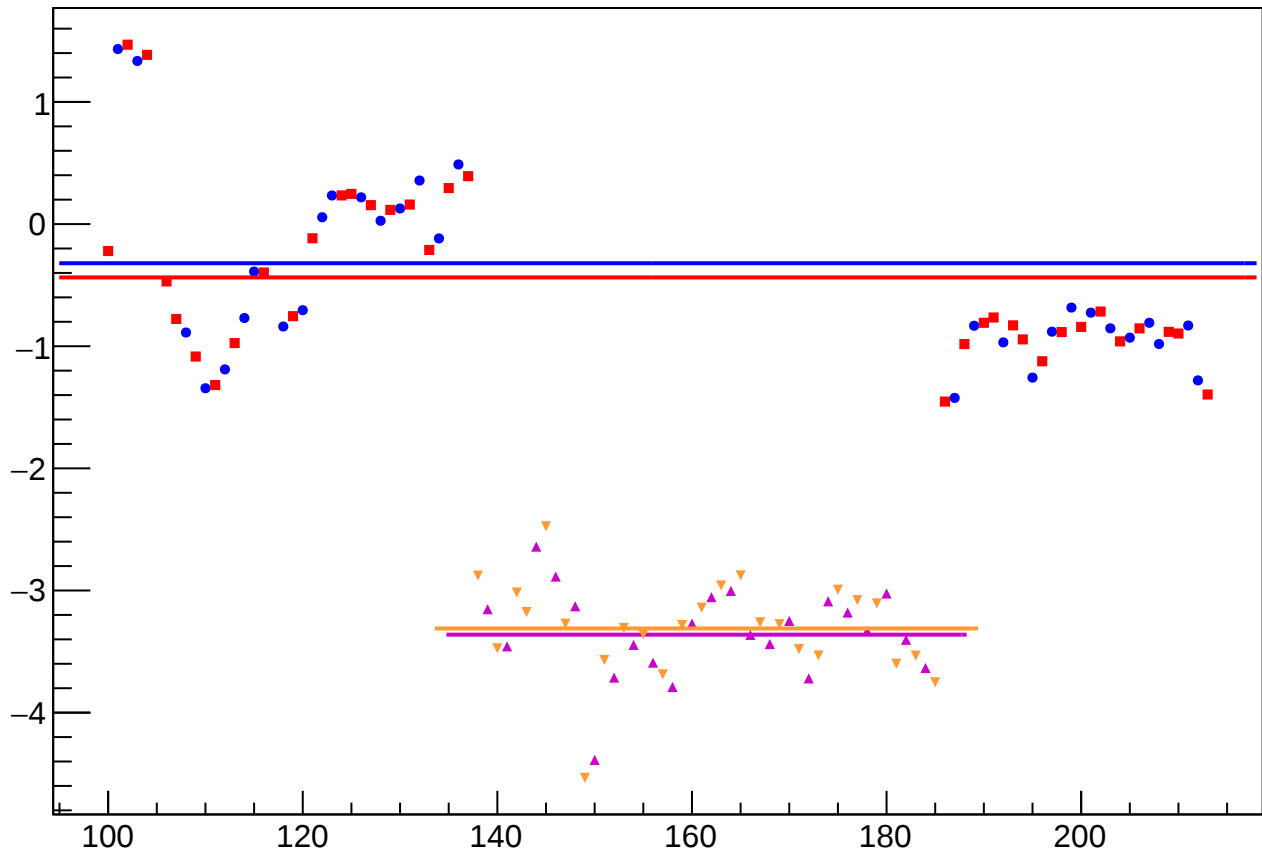
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:220756.1/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 6003858.2/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 12334385.9/111

- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 6326643.0/56

yield_bpm0l02X_mean vs Slug



Right In: -0.321 ± 0.000 χ^2/NDF : 33863140396.0/29

Left Out: -3.311 ± 0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.437 ± 0.000 χ^2/NDF : 34911855017.5/33

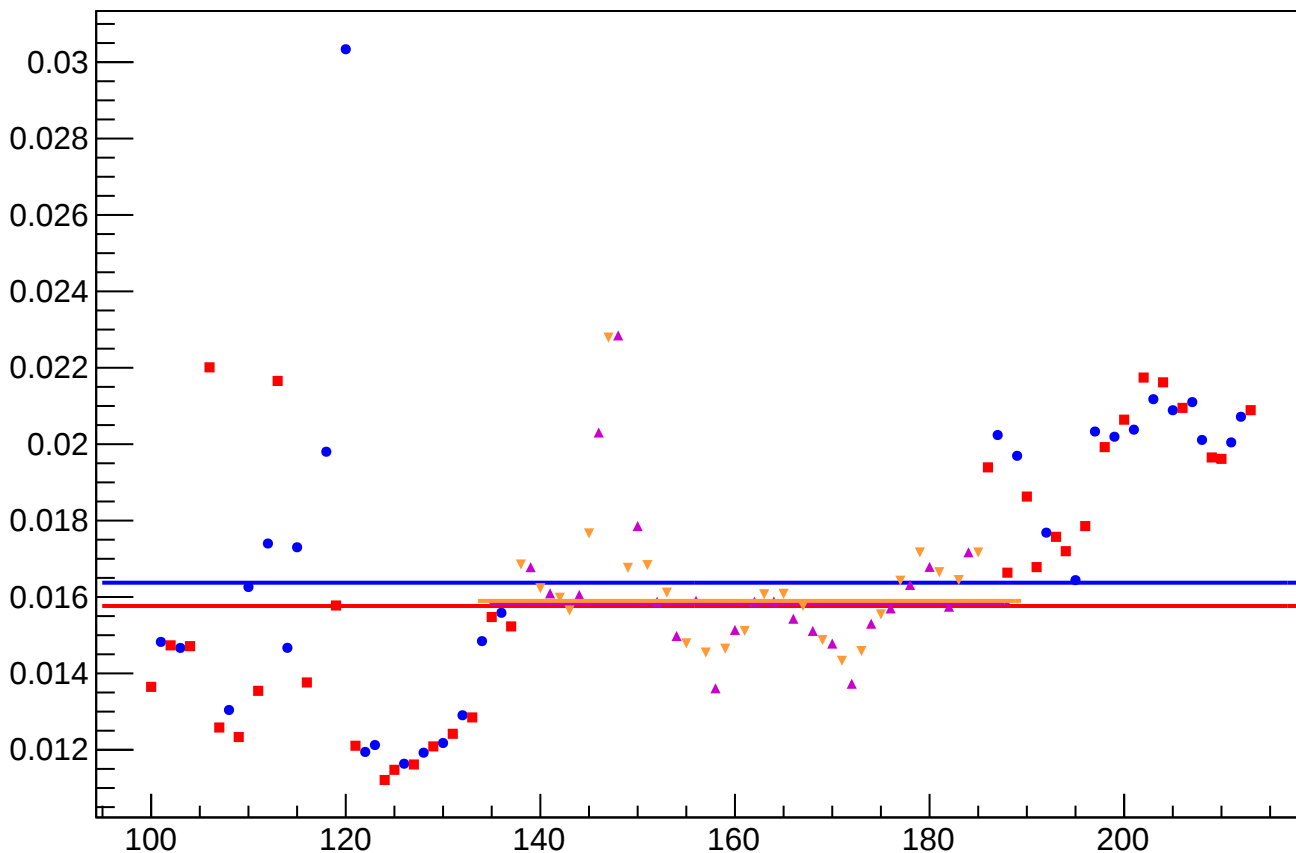
Left In: -3.362 ± 0.000 χ^2/NDF : 8171803777.4/22

+ sign -2.009 ± 0.000 χ^2/NDF : 315502643938.2/54

All: -1.968 ± 0.000 χ^2/NDF : 636812316933.2

- sign -1.928 ± 0.000 χ^2/NDF : 320897077384.2/56

yield_bpm0l02X_rms vs Slug



Right In: 0.016+/-0.000 χ^2/NDF : 1387837.1/29

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1478469.8/33

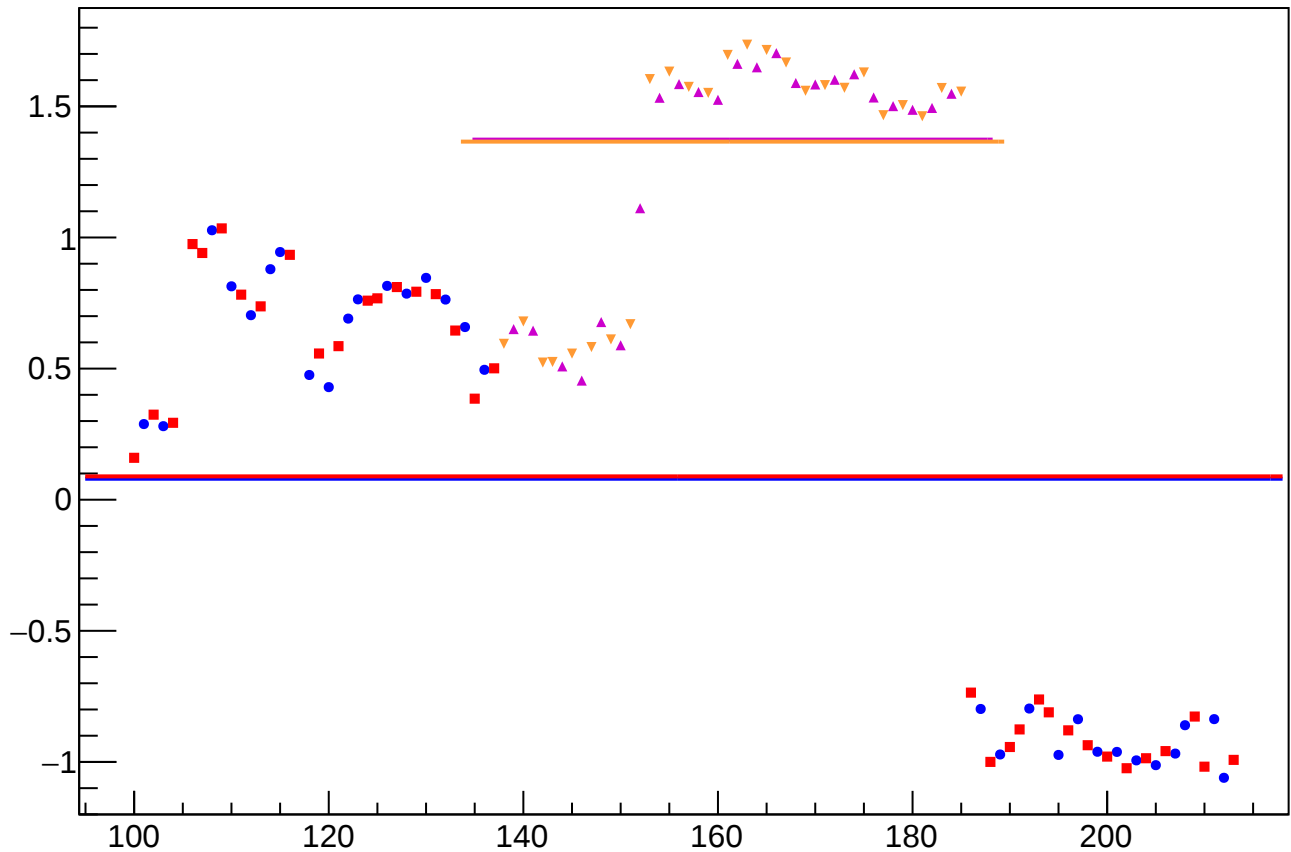
Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

+ sign 0.016+/-0.000 χ^2/NDF : 1653536.6/54

All: 0.016+/-0.000 χ^2/NDF : 3483792.0/111

- sign 0.016+/-0.000 χ^2/NDF : 1818293.0/56

yield_bpm0l02Y_mean vs Slug



Right In: 0.080 $\pm$ 0.000 χ^2 /NDF: 84699957226.5/29

Left Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 74741956067.9/24

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 96749521168.5/33

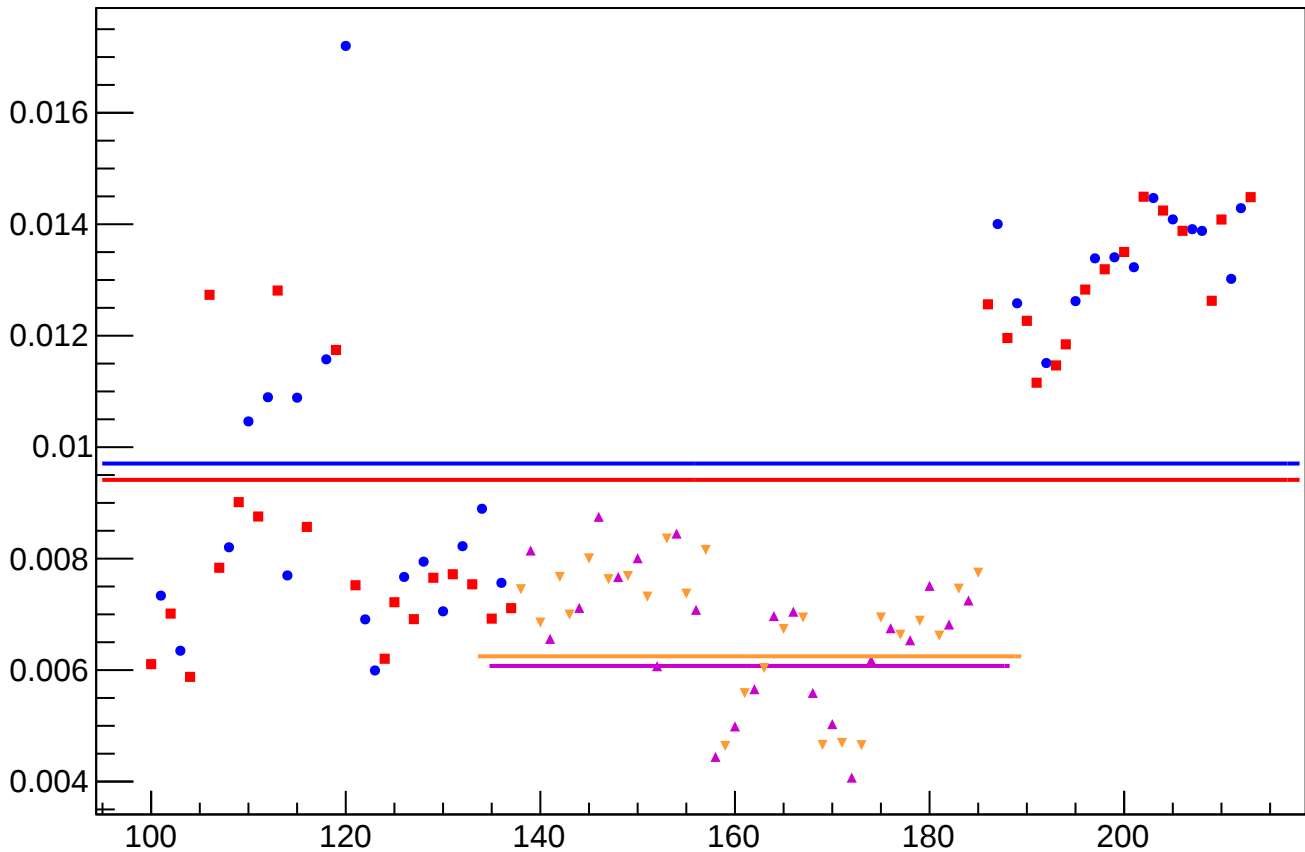
Left In: 1.373 $\pm$ 0.000 χ^2 /NDF: 63413151416.3/22

+ sign 1.038 $\pm$ 0.000 χ^2 /NDF: 338861734457.6/54

All: 1.025 $\pm$ 0.000 χ^2 /NDF: 697237722541.0

- sign 1.012 $\pm$ 0.000 χ^2 /NDF: 358185650492.5/56

yield_bpm0l02Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 2506029.9/29

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2741334.6/33

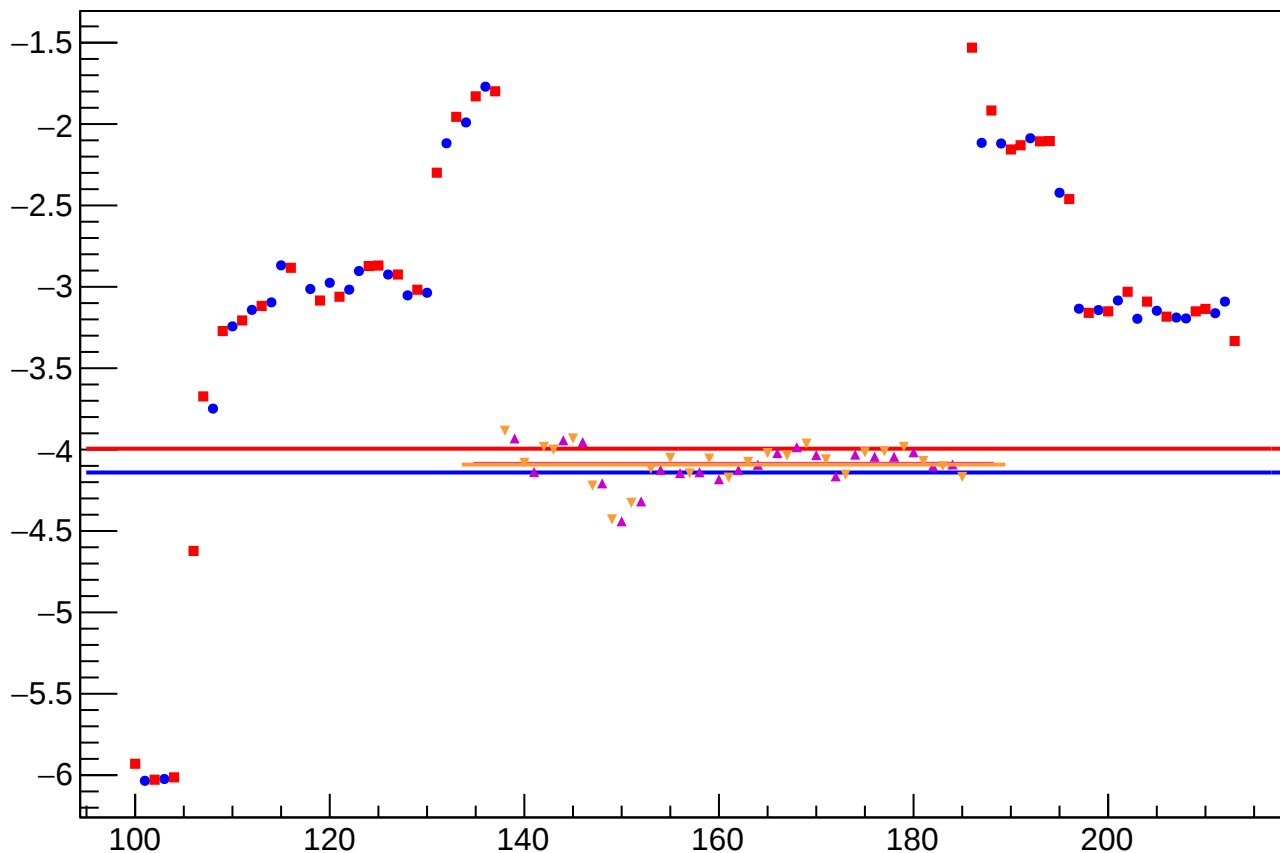
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 6435409.5/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 13294439.4/111

- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 6851128.9/56

yield_bpm0l03X_mean vs Slug



Right In: -4.141 ± 0.000 $\chi^2/\text{NDF}: 284367736568.3/29$

Left Out: -4.092 ± 0.000 $\chi^2/\text{NDF}: 39806766.7/24$

Right Out: -3.994 ± 0.000 $\chi^2/\text{NDF}: 275549758128.6/33$

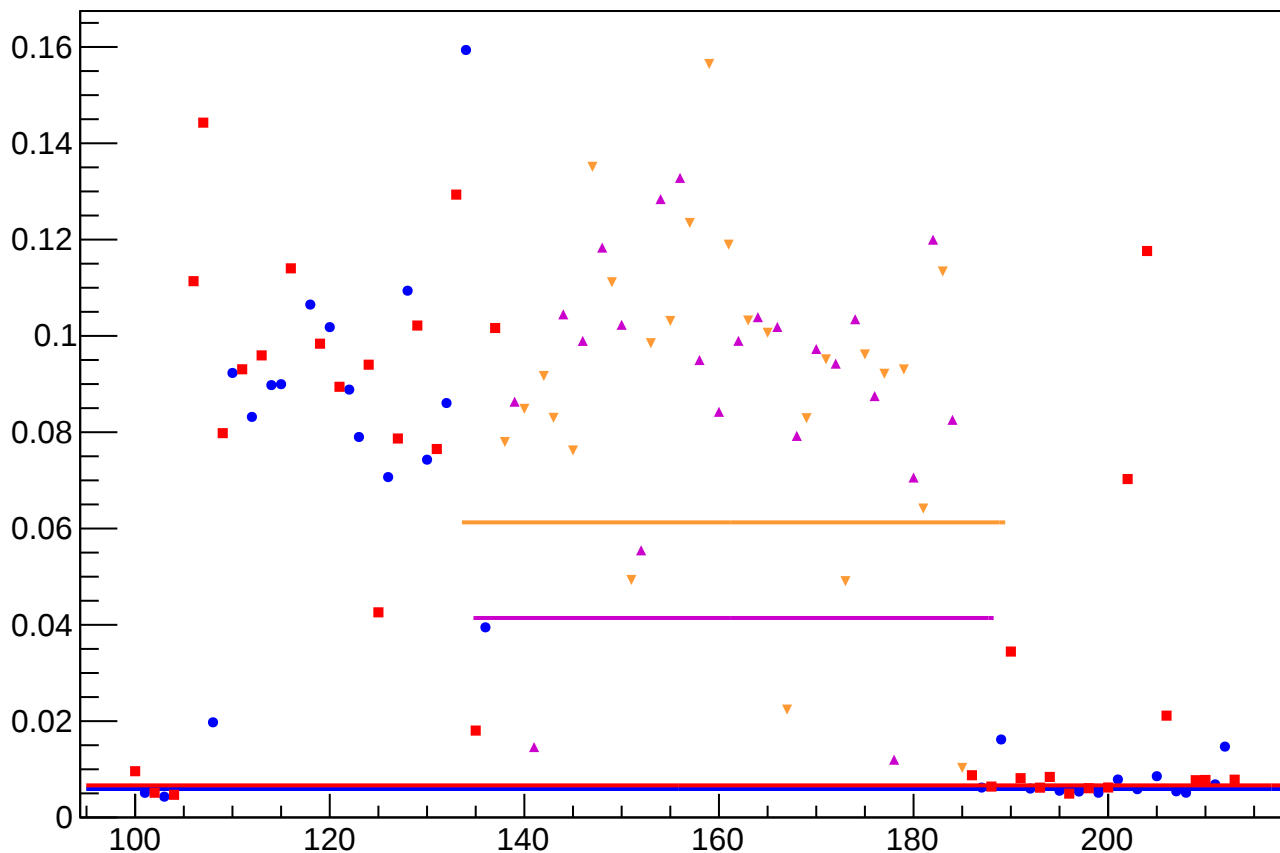
Left In: -4.088 ± 0.000 $\chi^2/\text{NDF}: 34412880.7/22$

+ sign -4.139 ± 0.000 $\chi^2/\text{NDF}: 284414427564.9/54$

All: -4.078 ± 0.000 $\chi^2/\text{NDF}: 561074391204.0$

- sign -3.999 ± 0.000 $\chi^2/\text{NDF}: 275619670645.0/56$

yield_bpm0l03X_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 8191138.1/29

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 10357194.1/33

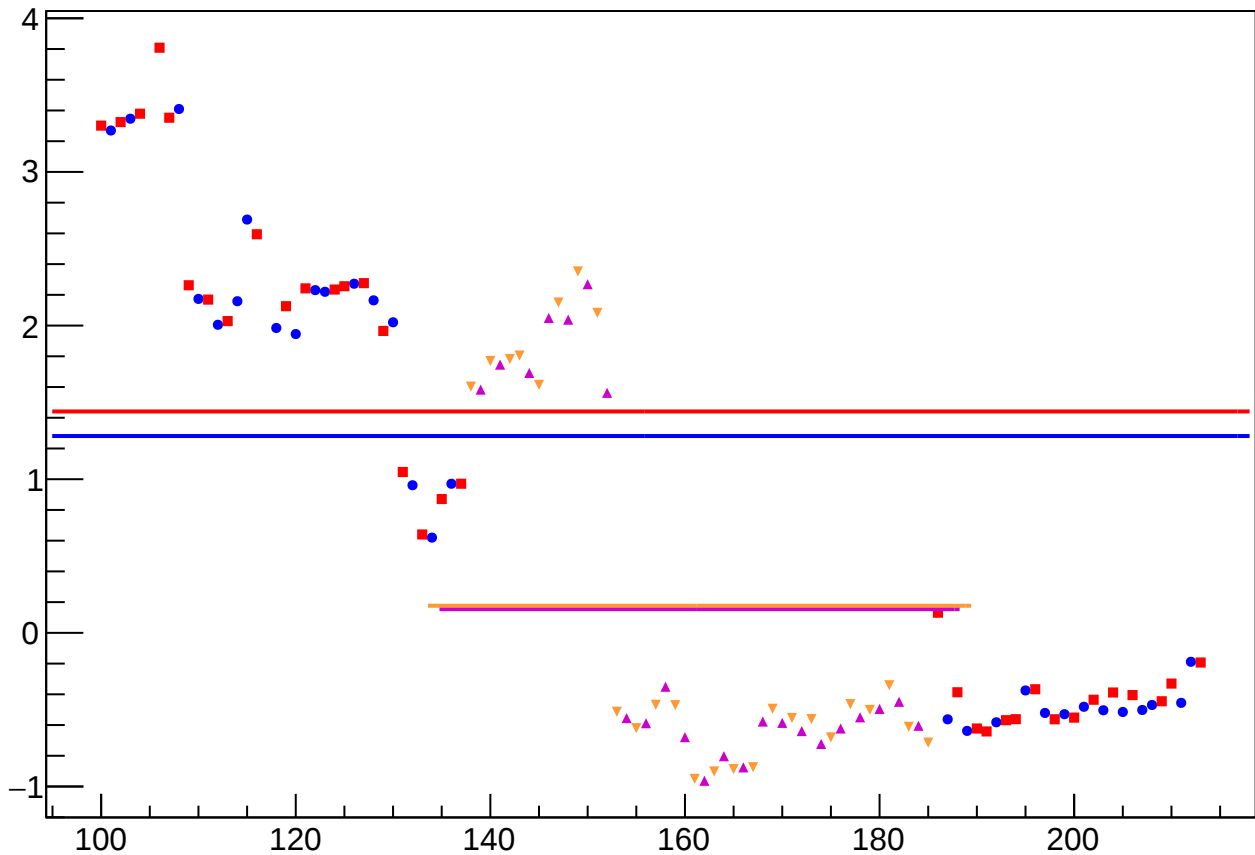
Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 34206100.5/54

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 67623845.6/111

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 33314900.4/56

yield_bpm0l03Y_mean vs Slug



Right In: 1.281+/-0.000 χ^2/NDF : 216926880292.2/29

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.441+/-0.000 χ^2/NDF : 185866200129.3/33

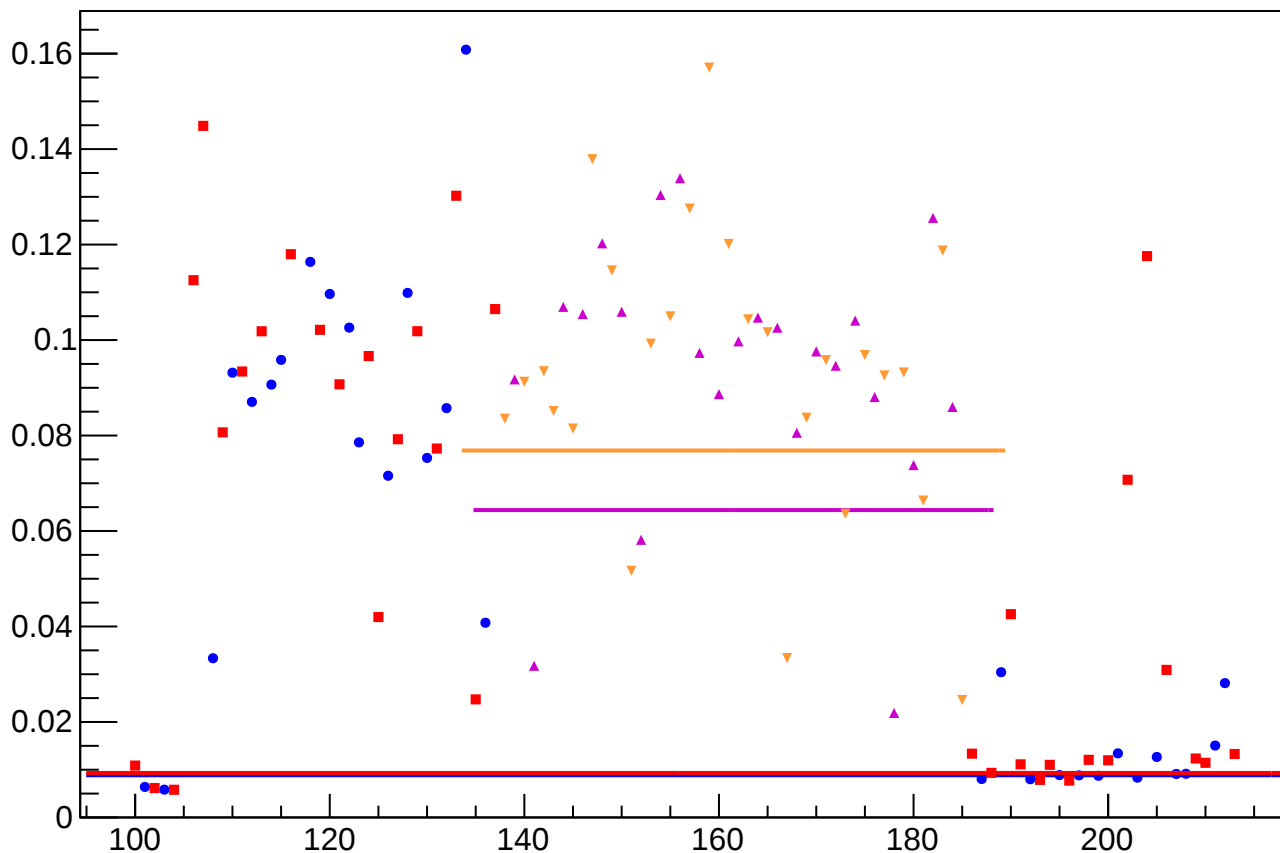
Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

+ sign 1.241+/-0.000 χ^2/NDF : 222868576929.2/54

All: 1.307+/-0.000 χ^2/NDF : 416543795349.2

- sign 1.381+/-0.000 χ^2/NDF : 193101158556.5/56

yield_bpm0l03Y_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8355647.6/29

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10383715.6/33

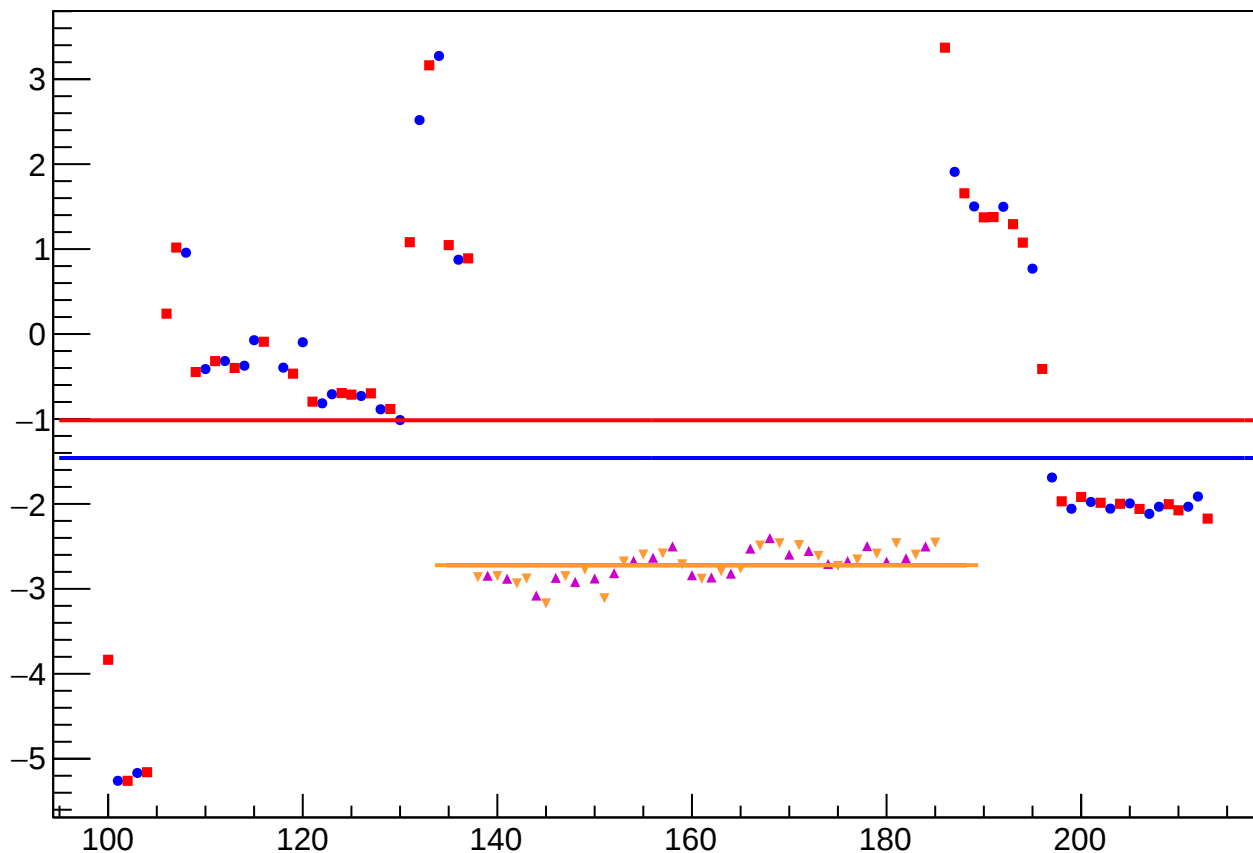
Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 32803842.0/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65109921.7/111

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 32284148.4/56

yield_bpm0l04X_mean vs Slug



Right In: -1.459+/-0.000 χ^2/NDF : 207038298442.8/29

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.015+/-0.000 χ^2/NDF : 240855138227.2/33

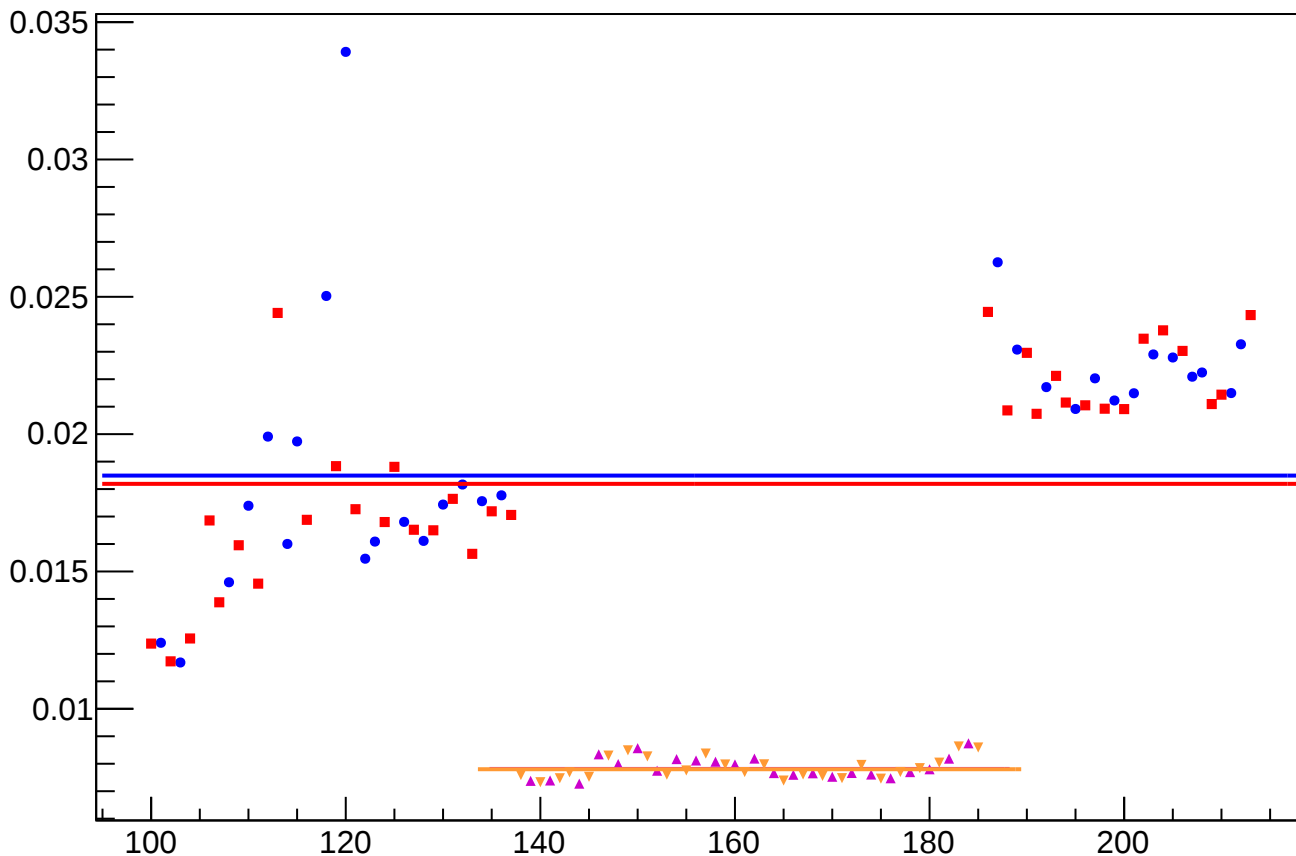
Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

+ sign -2.564+/-0.000 χ^2/NDF : 275101080091.0/54

All: -2.519+/-0.000 χ^2/NDF : 641823035208.4

- sign -2.473+/-0.000 χ^2/NDF : 365361294083.1/56

yield_bpm0l04X_rms vs Slug



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 1444053.5/29

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 71164.4/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 1395733.2/33

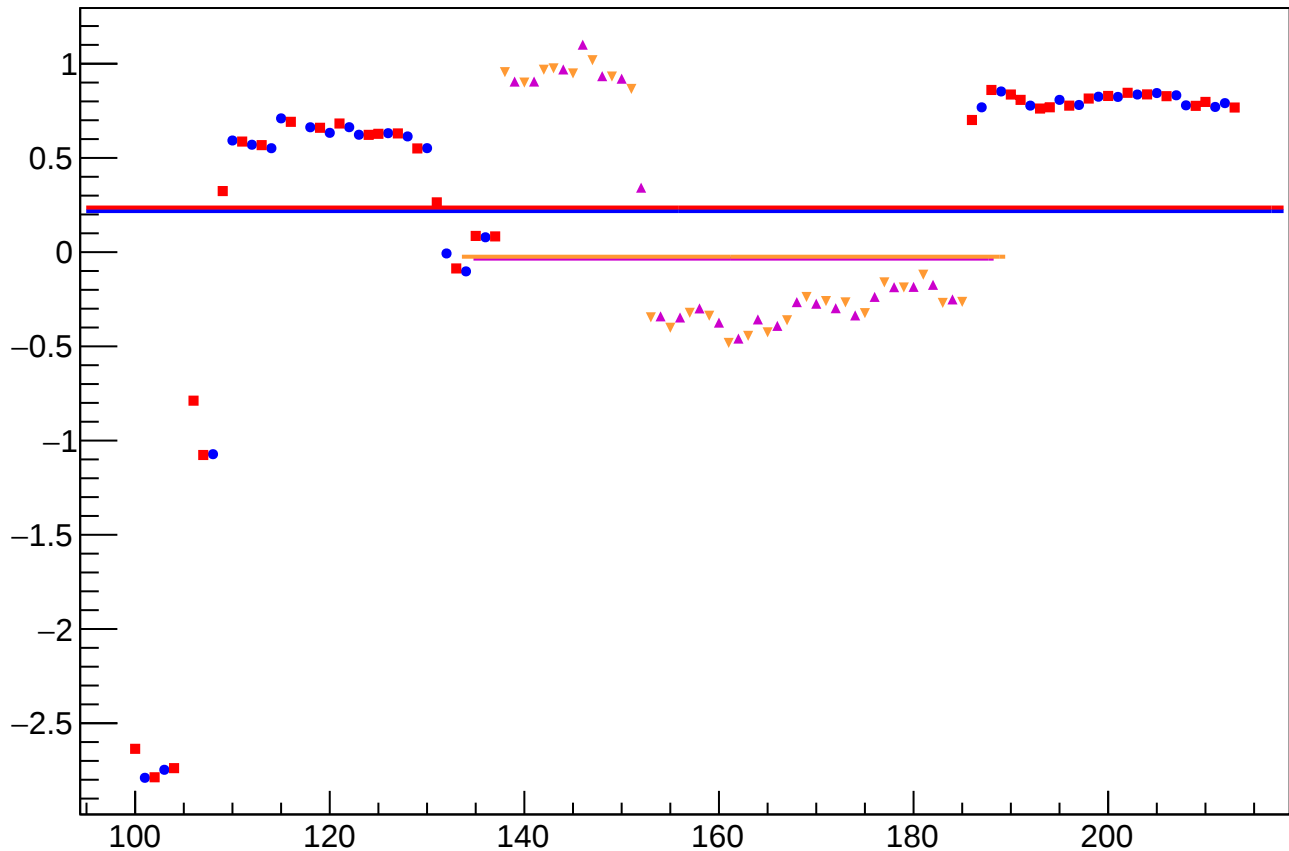
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 67610.2/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 9793811.9/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 19877802.7/111

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 10071643.8/56

yield_bpm0l04Y_mean vs Slug



Right In: 0.218 $\pm$ 0.000 χ^2 /NDF: 888413790283.6/29

Left Out: -0.024 $\pm$ 0.000 χ^2 /NDF: 135451649275.0/24

Right Out: 0.237 $\pm$ 0.000 χ^2 /NDF: 949897077042.2/33

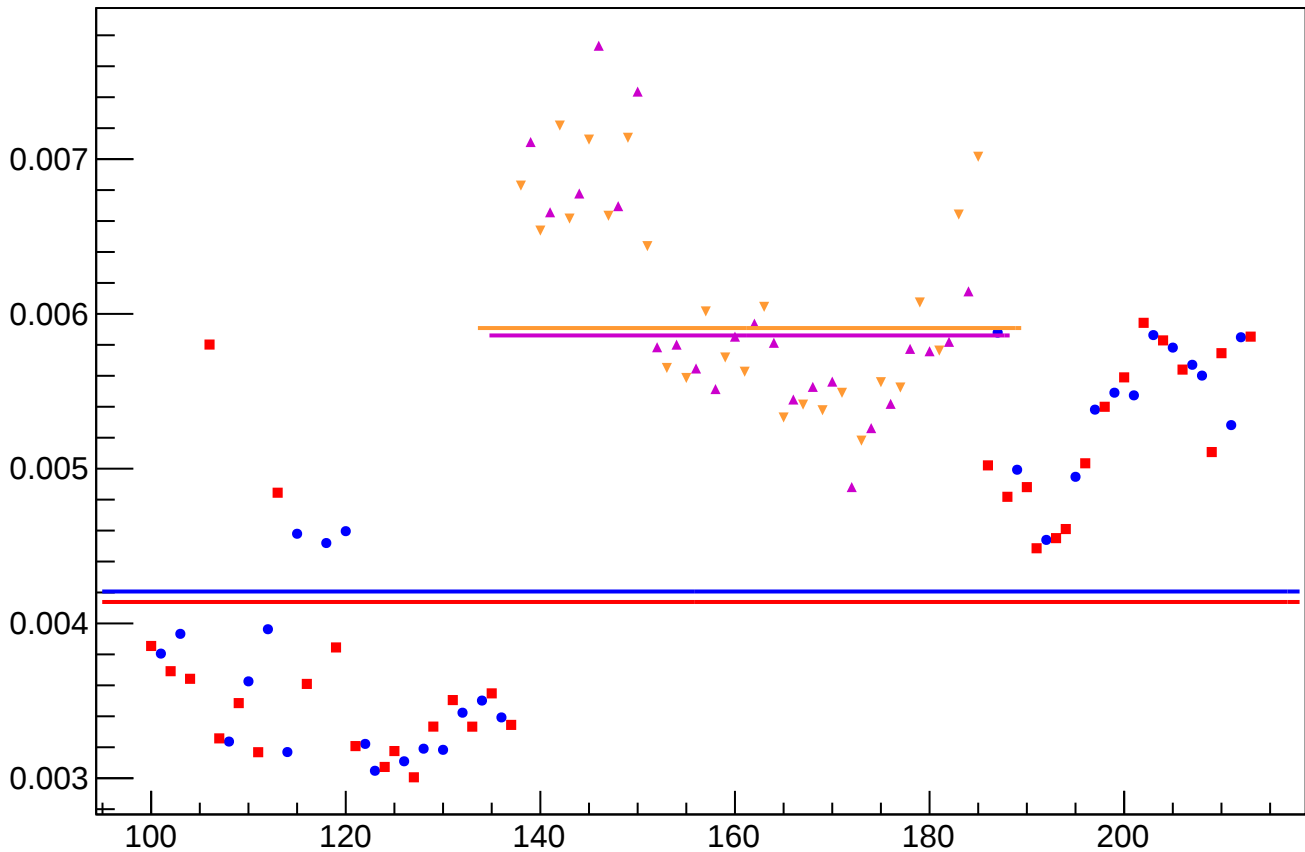
Left In: -0.034 $\pm$ 0.000 χ^2 /NDF: 113929060918.1/22

+ sign 0.128 $\pm$ 0.000 χ^2 /NDF: 1041696220280.1/54

All: 0.137 $\pm$ 0.000 χ^2 /NDF: 2128443748845.0

- sign 0.146 $\pm$ 0.000 χ^2 /NDF: 1086547635486.3/56

yield_bpm0l04Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 1591780.9/29

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1676173.9/33

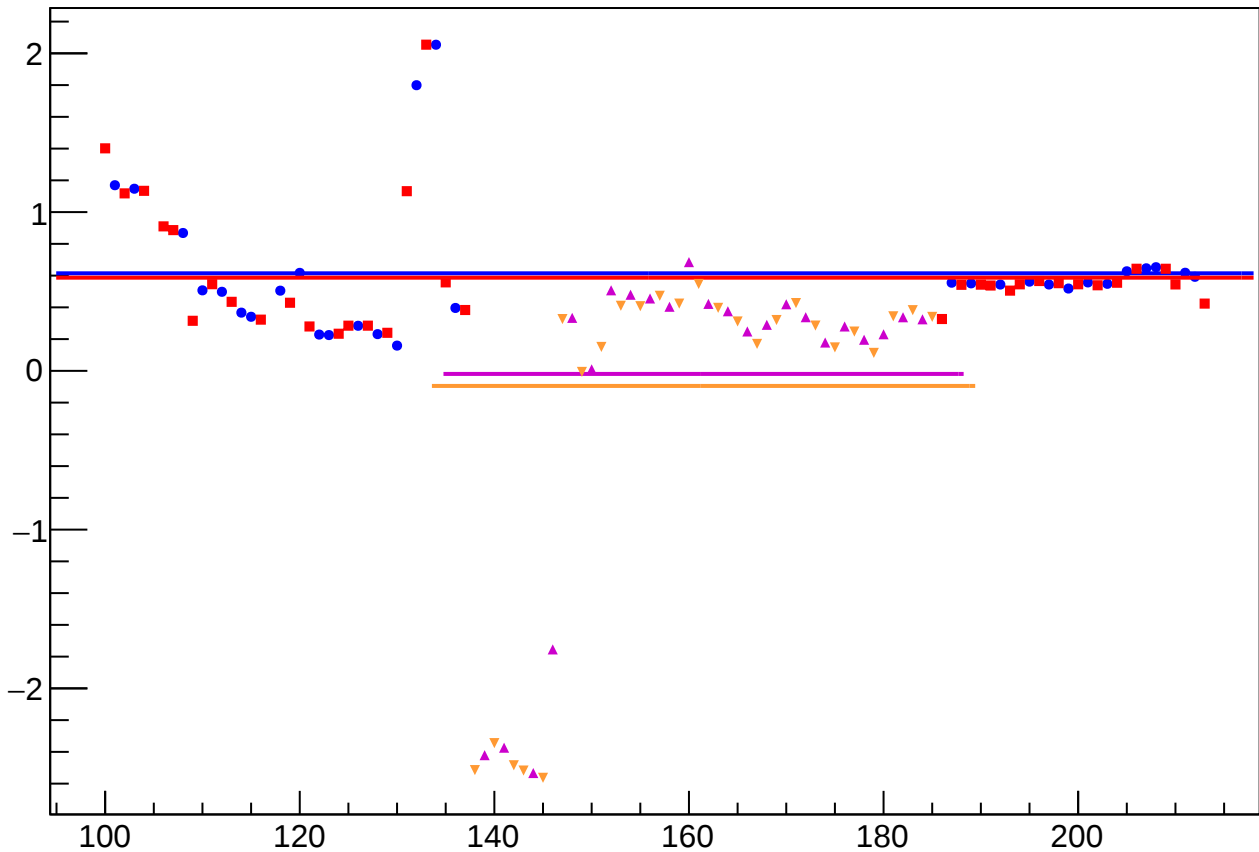
Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

+ sign 0.005+/-0.000 χ^2/NDF : 3668726.4/54

All: 0.005+/-0.000 χ^2/NDF : 7561145.5/111

- sign 0.005+/-0.000 χ^2/NDF : 3873619.8/56

yield_bpm0l05X_mean vs Slug



Right In: 0.614 $\pm$ 0.000 χ^2 /NDF: 40640268500.4/29

Left Out: -0.095 $\pm$ 0.000 χ^2 /NDF: 505606573631.9/24

Right Out: 0.587 $\pm$ 0.000 χ^2 /NDF: 47631291176.9/33

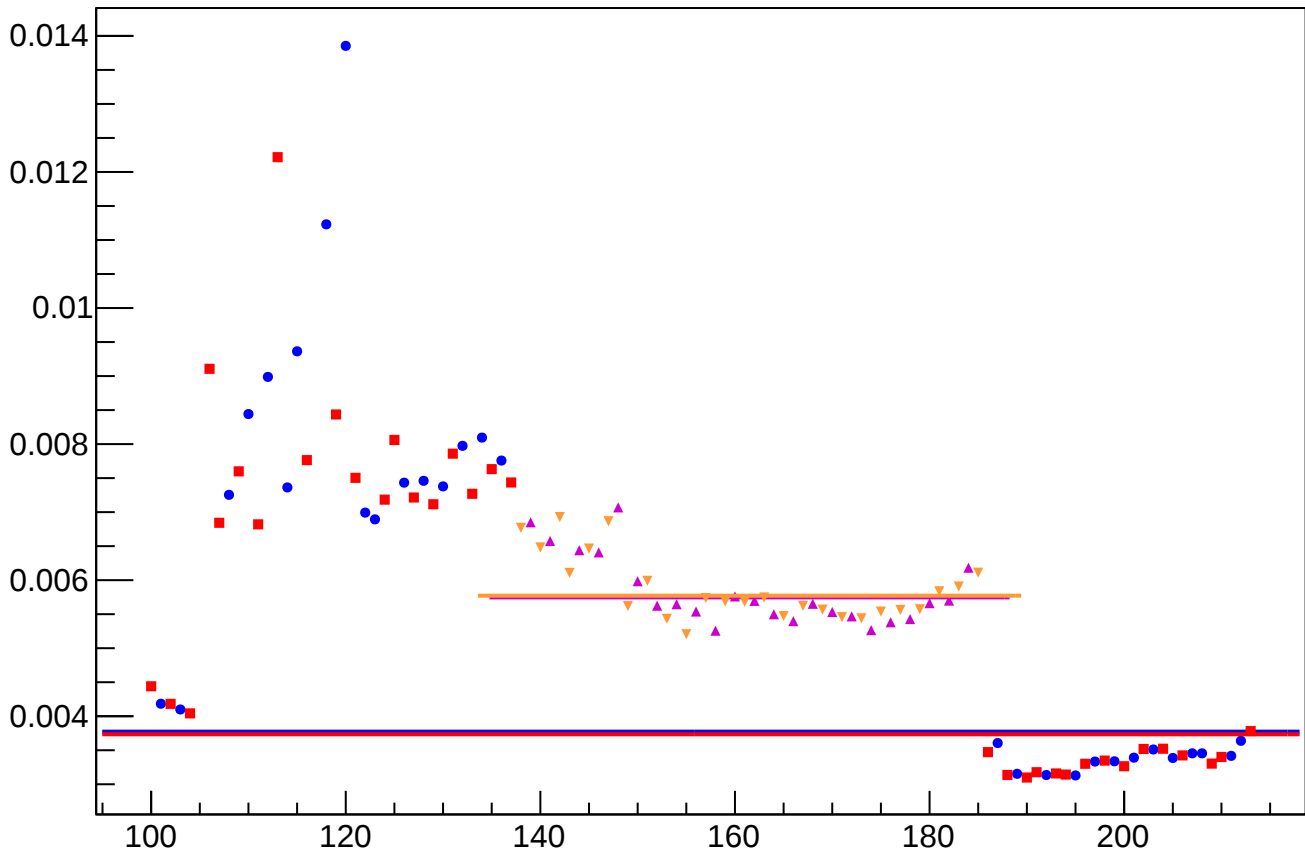
Left In: -0.019 $\pm$ 0.000 χ^2 /NDF: 417104863944.5/22

+ sign 0.362 $\pm$ 0.000 χ^2 /NDF: 713134570616.9/54

All: 0.378 $\pm$ 0.000 χ^2 /NDF: 1301922998286.

- sign 0.393 $\pm$ 0.000 χ^2 /NDF: 588060951263.4/56

yield_bpm0l05X_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 3145411.2/29

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3193455.4/33

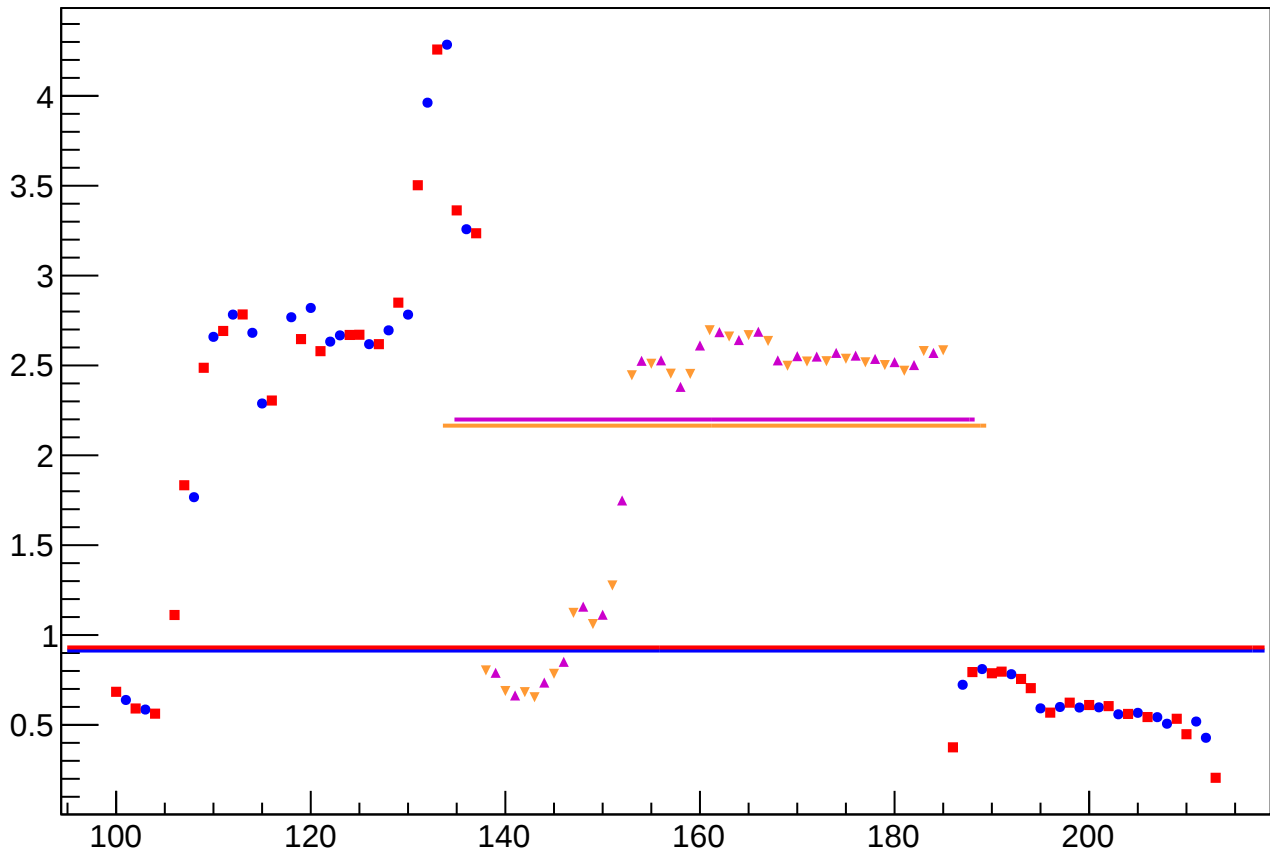
Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

+ sign 0.004+/-0.000 χ^2/NDF : 5972802.3/54

All: 0.004+/-0.000 χ^2/NDF : 12103150.0/111

- sign 0.004+/-0.000 χ^2/NDF : 6113331.4/56

yield_bpm0l05Y_mean vs Slug



Right In: 0.914 $\pm$ 0.000 χ^2 /NDF: 307982621008.9/29

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 363286686893.6/33

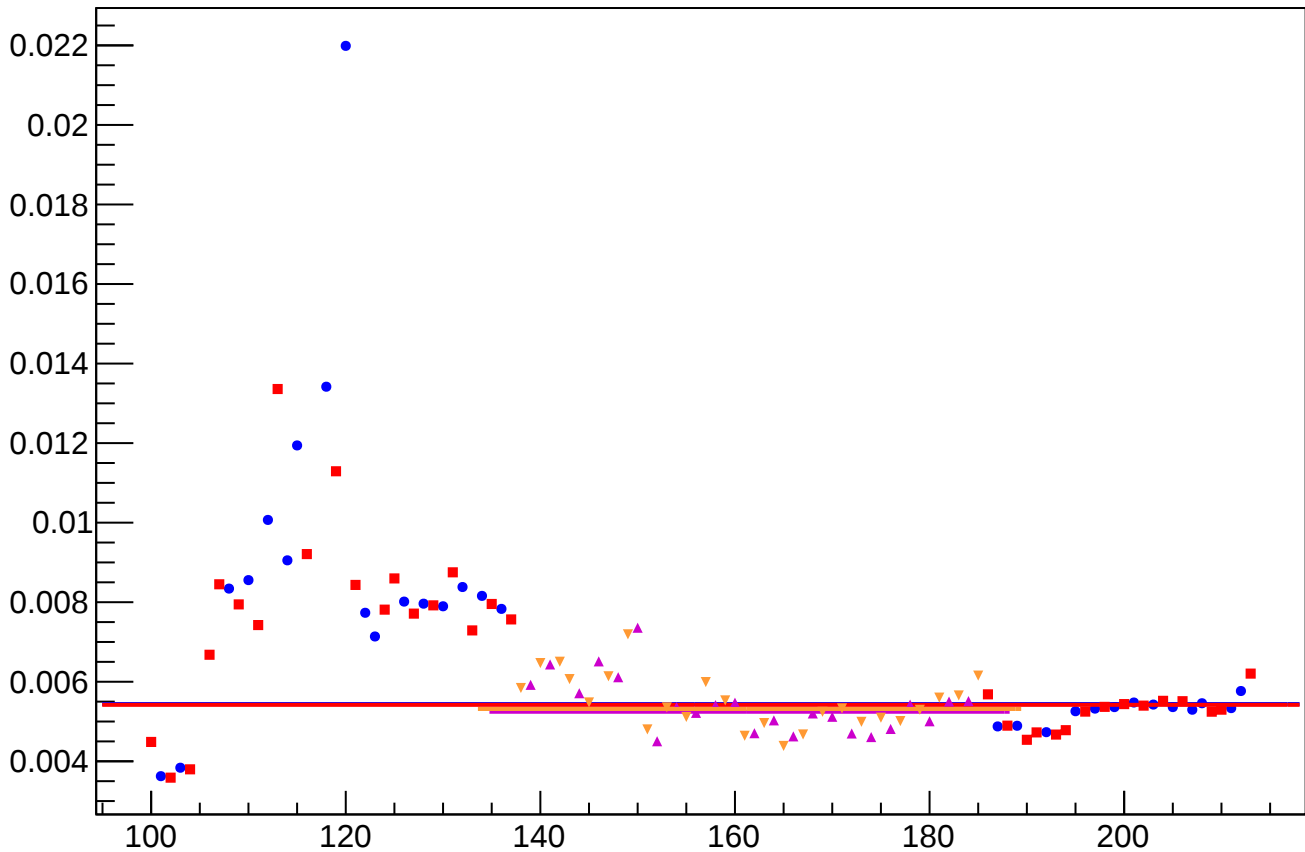
Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

+ sign 1.613 $\pm$ 0.000 χ^2 /NDF: 1006432124758.6/54

All: 1.606 $\pm$ 0.000 χ^2 /NDF: 2058774307410.0

- sign 1.599 $\pm$ 0.000 χ^2 /NDF: 1052232032701.0/56

yield_bpm0l05Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 2011526.7/29

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1903128.6/33

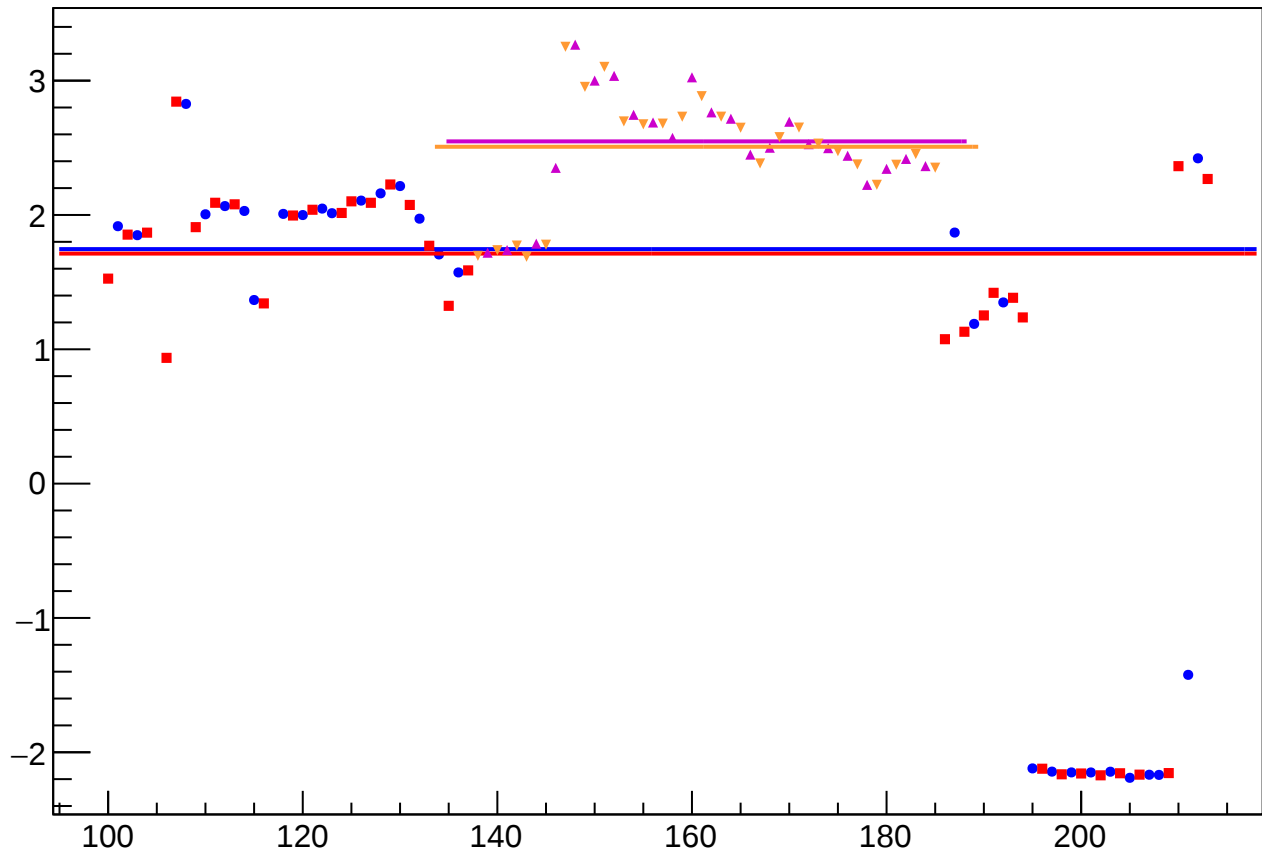
Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

+ sign 0.005+/-0.000 χ^2/NDF : 2418237.2/54

All: 0.005+/-0.000 χ^2/NDF : 4765509.4/111

- sign 0.005+/-0.000 χ^2/NDF : 2345402.5/56

yield_bpm0l06X_mean vs Slug



Right In: 1.746 $\pm$ 0.000 χ^2 /NDF: 160383320944.5/29

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.713 $\pm$ 0.000 χ^2 /NDF: 143787934785.4/33

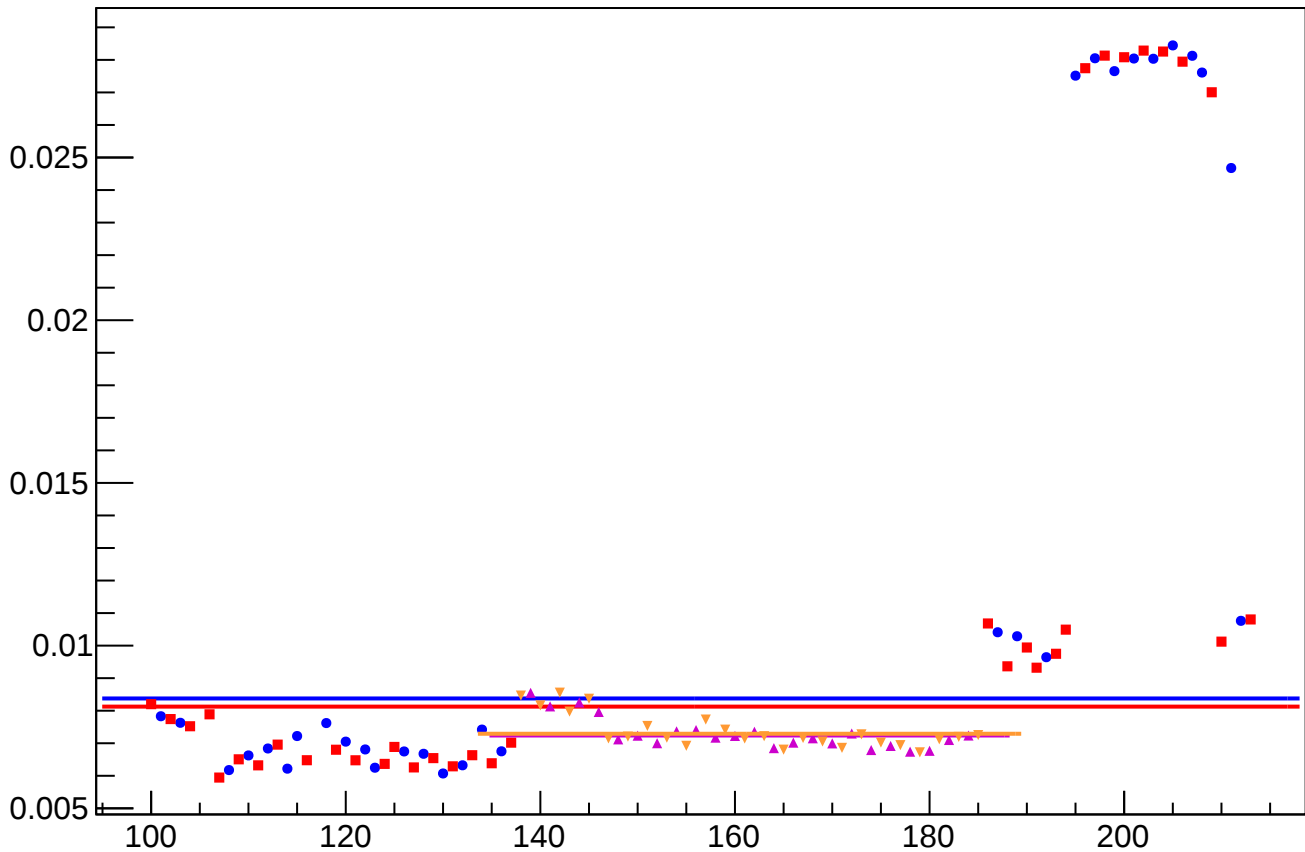
Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

+ sign 2.251 $\pm$ 0.000 χ^2 /NDF: 276973595661.5/54

All: 2.235 $\pm$ 0.000 χ^2 /NDF: 552930420242.8

- sign 2.221 $\pm$ 0.000 χ^2 /NDF: 275720996236.7/56

yield_bpm0l06X_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 7586576.8/29

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6397949.2/33

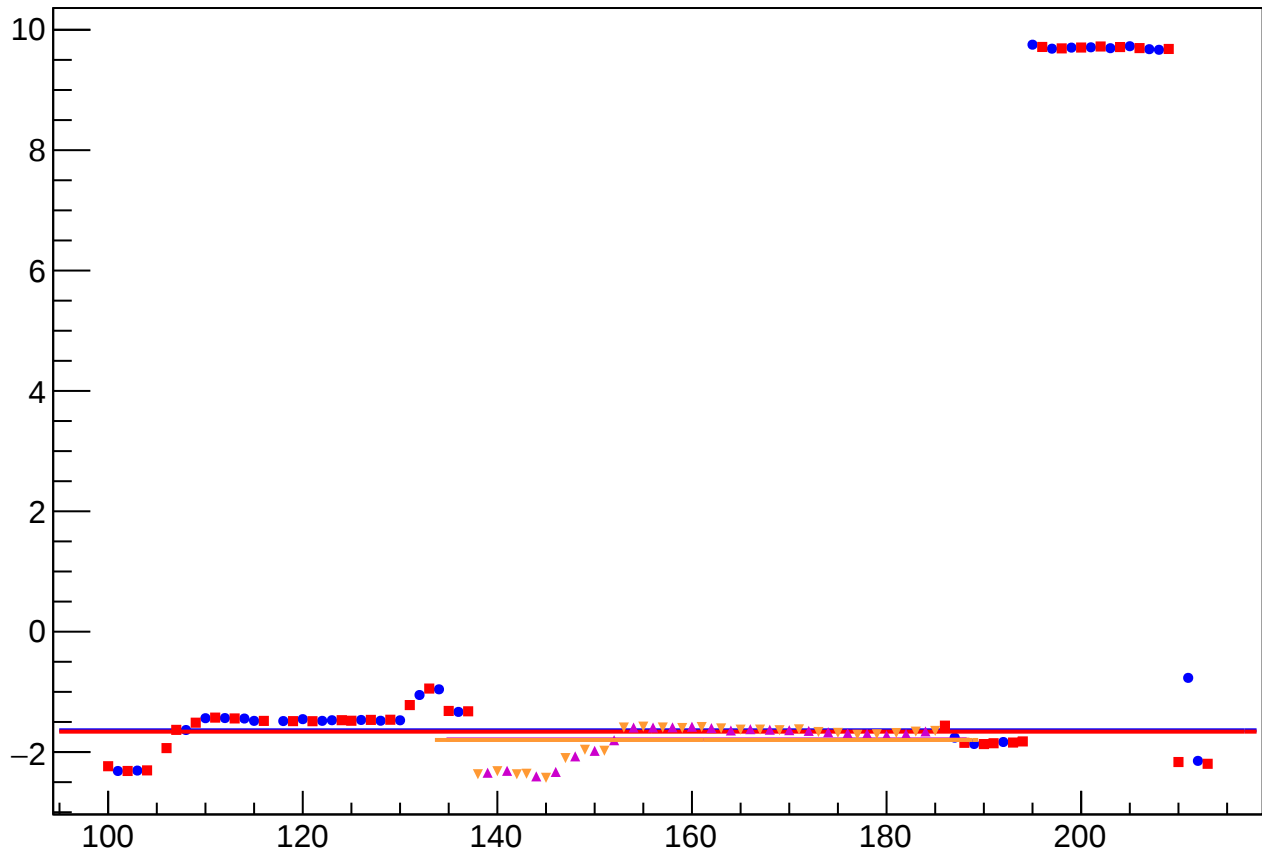
Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

+ sign 0.008+/-0.000 χ^2/NDF : 7987724.5/54

All: 0.008+/-0.000 χ^2/NDF : 14709038.6/111

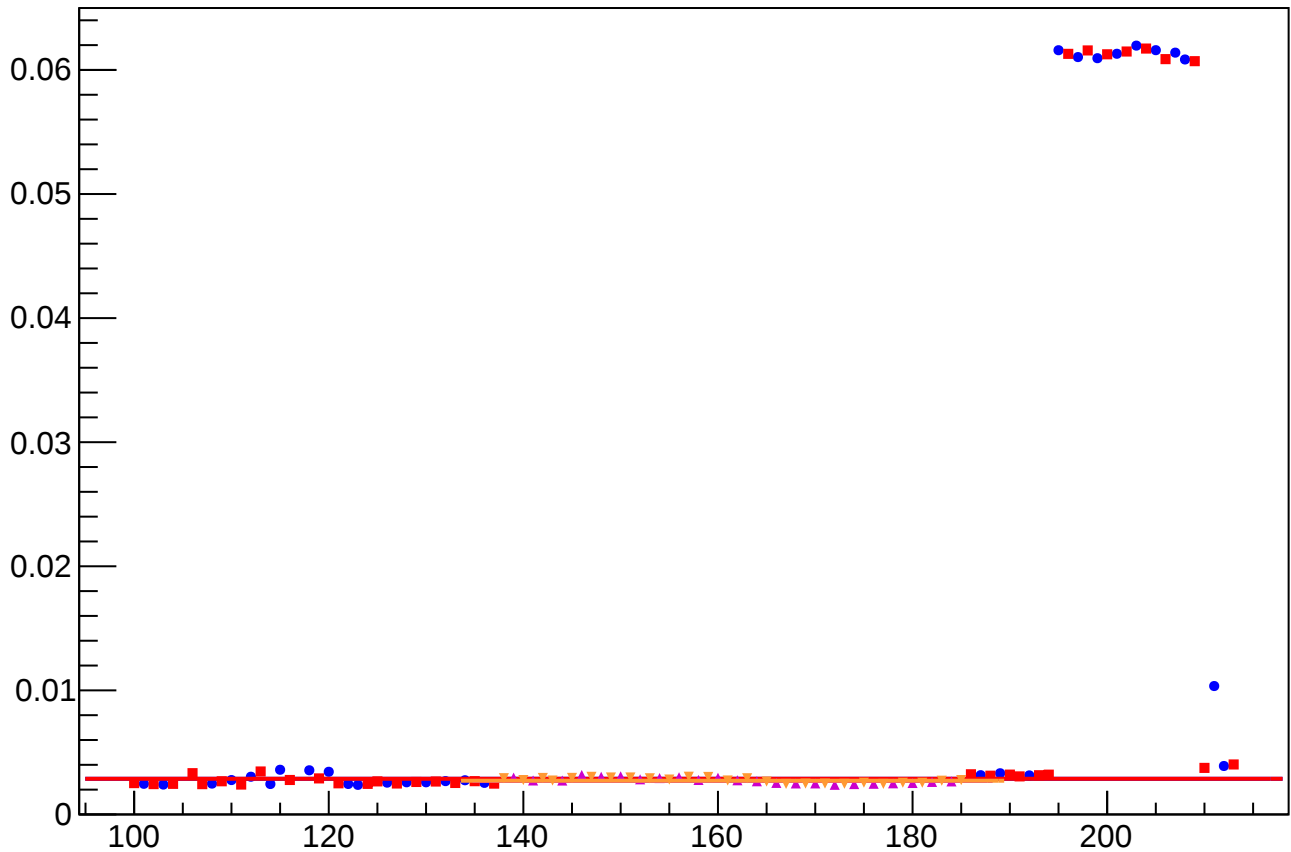
- sign 0.008+/-0.000 χ^2/NDF : 6718737.2/56

yield_bpm0l06Y_mean vs Slug



Right In: -1.639+/-0.000	χ^2/NDF : 373200047468.0/29	+ sign -1.748+/-0.000	χ^2/NDF : 577776047694.1/54
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	All: -1.745+/-0.000	χ^2/NDF : 1116824290350
Right Out: -1.661+/-0.000	χ^2/NDF : 365011907264.5/33	- sign -1.741+/-0.000	χ^2/NDF : 538965471719.3/56
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22		

yield_bpm0l06Y_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 11864808.1/29

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:199695.2/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10117997.4/33

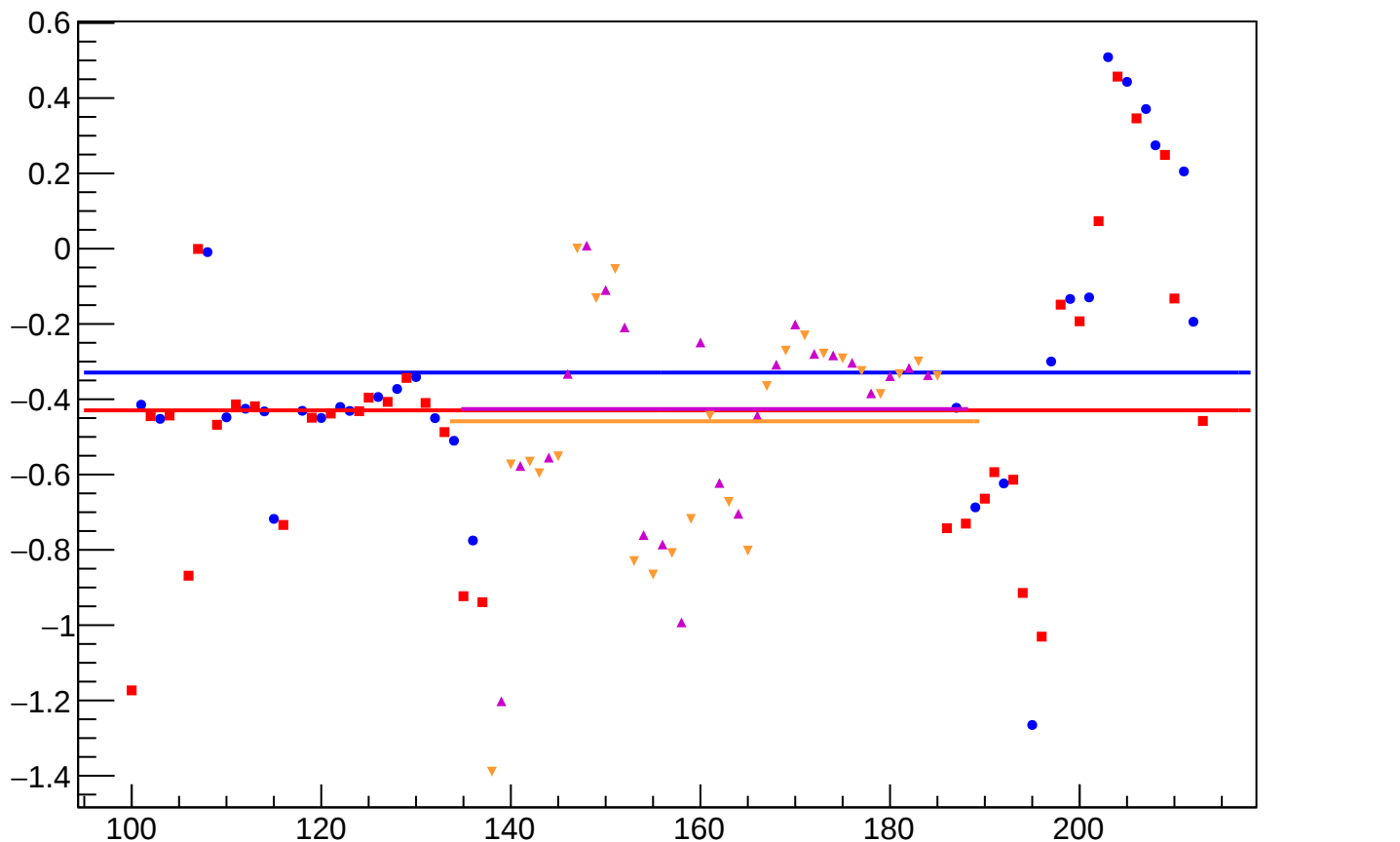
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:220327.9/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 12099772.3/54

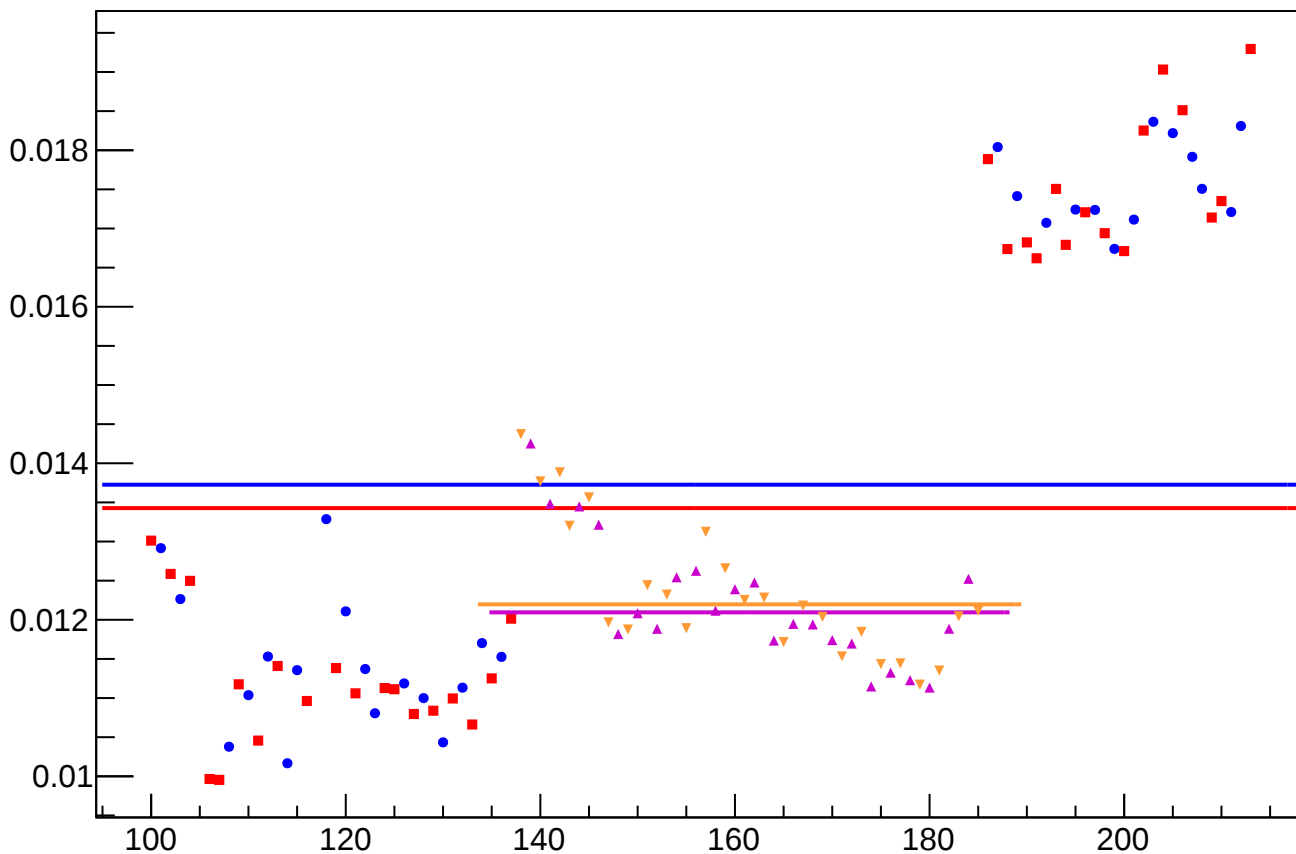
All: 0.003 $\pm$ 0.000 χ^2 /NDF: 22490307.6/111

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 10390535.3/56

yield_bpm0l07X_mean vs Slug



yield_bpm0l07X_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1424361.3/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1757165.4/33

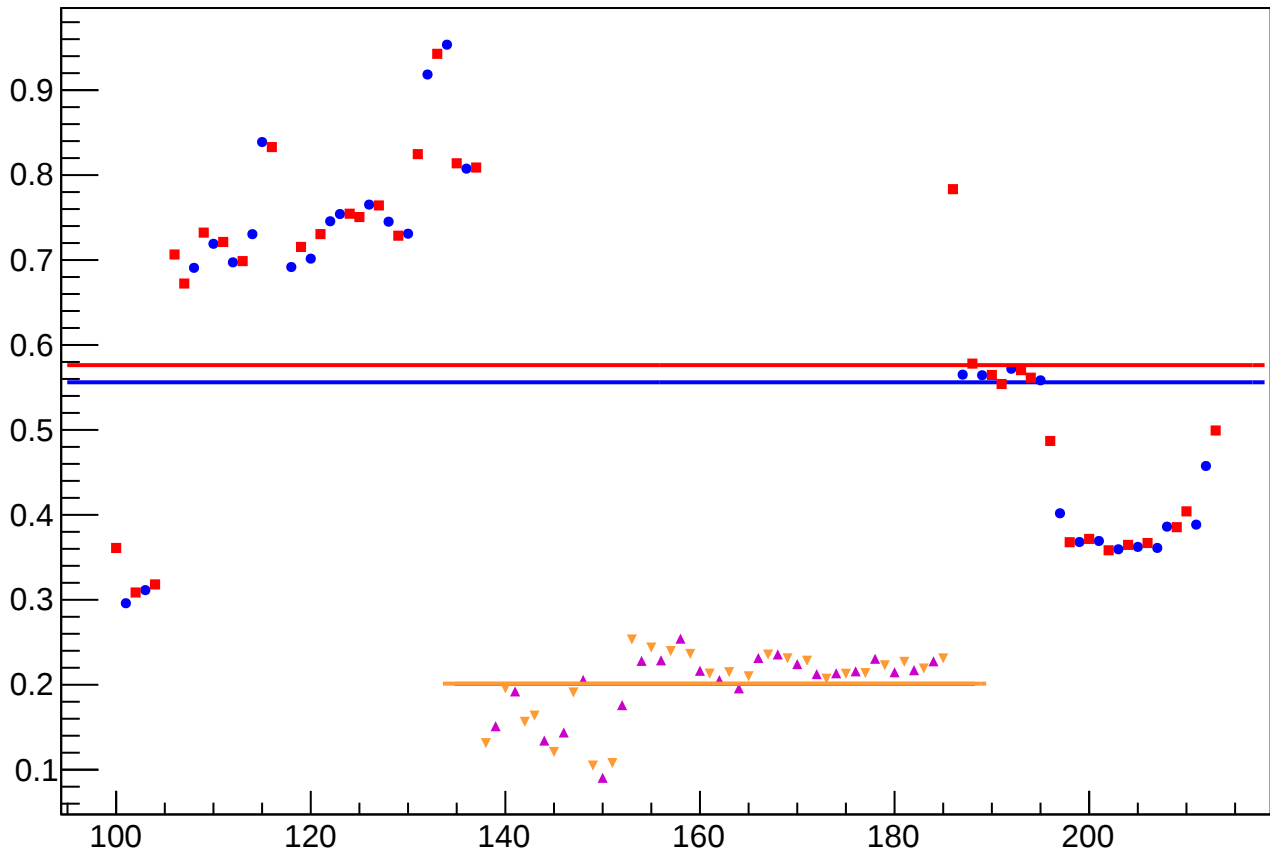
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 1786905.6/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 3851249.8/111

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2061018.7/56

yield_bpm0l07Y_mean vs Slug



Right In: 0.556 ± 0.000 χ^2/NDF : 76086227709.3/29

Left Out: 0.201 ± 0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.576 ± 0.000 χ^2/NDF : 73763444849.1/33

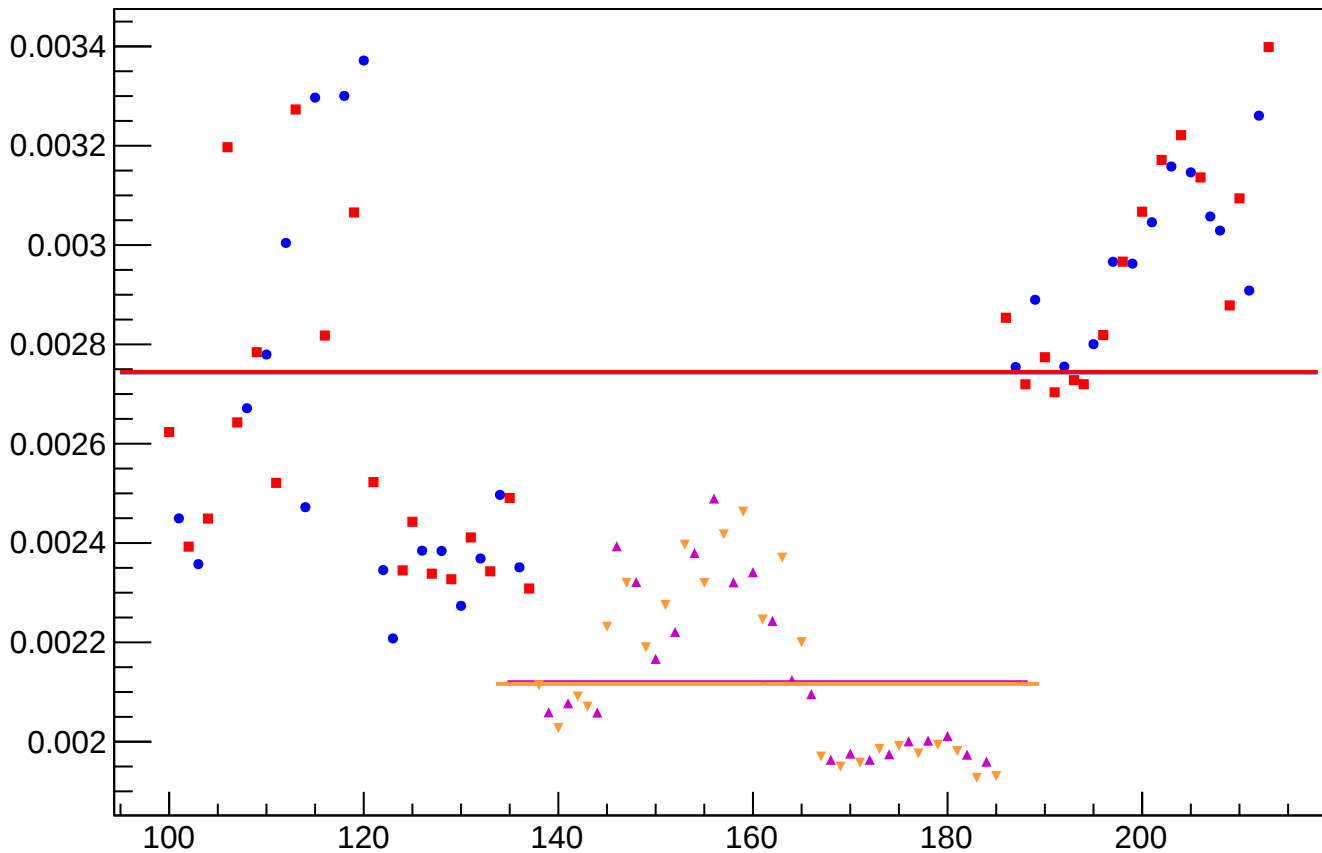
Left In: 0.201 ± 0.000 χ^2/NDF : 5671770181.2/22

+ sign 0.320 ± 0.000 χ^2/NDF : 253233965424.1/54

All: 0.329 ± 0.000 χ^2/NDF : 529312987854.0

- sign 0.338 ± 0.000 χ^2/NDF : 275083954973.6/56

yield_bpm0l07Y_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 445085.7/29

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:224498.3/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 401802.6/33

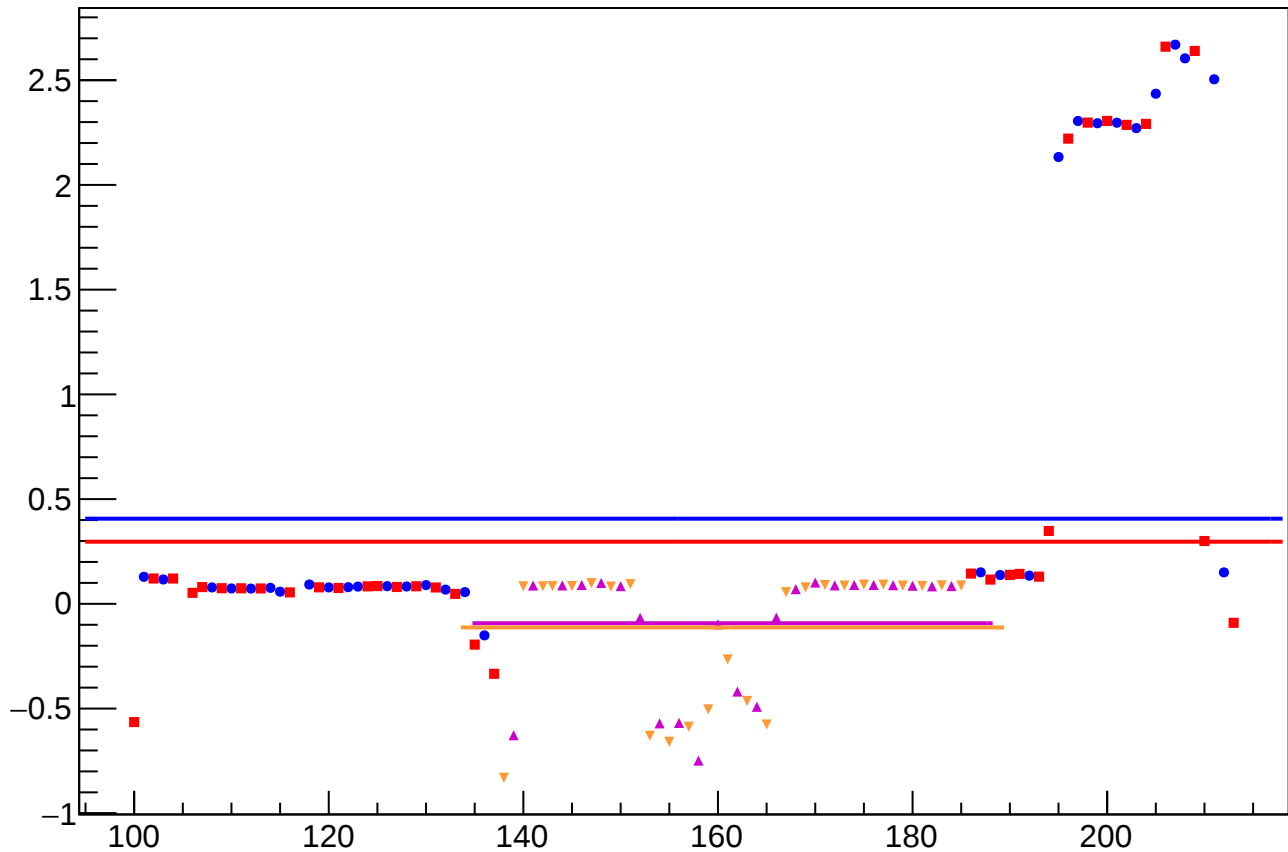
Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:189228.6/22

+ sign 0.002 $\pm$ 0.000 χ^2 /NDF: 1732954.4/54

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 3411445.6/111

- sign 0.002 $\pm$ 0.000 χ^2 /NDF: 1675612.1/56

yield_bpm0l08X_mean vs Slug



Right In: 0.407+/-0.000 χ^2/NDF : 61099689478.9/29

Left Out: -0.113+/-0.000 χ^2/NDF : 13667354077.1/24

Right Out: 0.297+/-0.000 χ^2/NDF : 52186722862.1/33

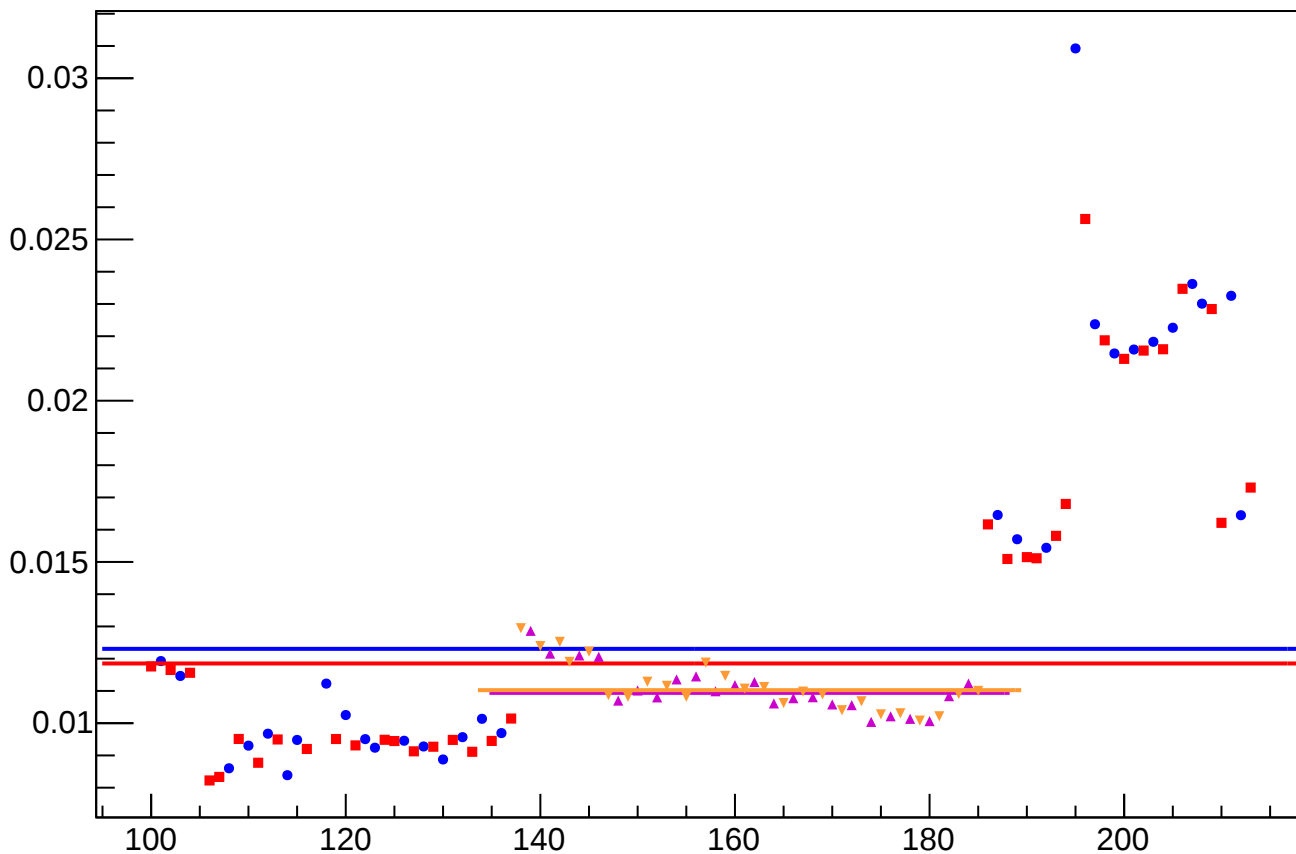
Left In: -0.093+/-0.000 χ^2/NDF : 11051944893.7/22

+ sign 0.085+/-0.000 χ^2/NDF : 89648561314.4/54

All: 0.080+/-0.000 χ^2/NDF : 161998713229.4

- sign 0.076+/-0.000 χ^2/NDF : 72339900238.1/56

yield_bpm0l08X_rms vs Slug



Right In: 0.012+/-0.000 χ^2/NDF : 4288205.4/29

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4047817.5/33

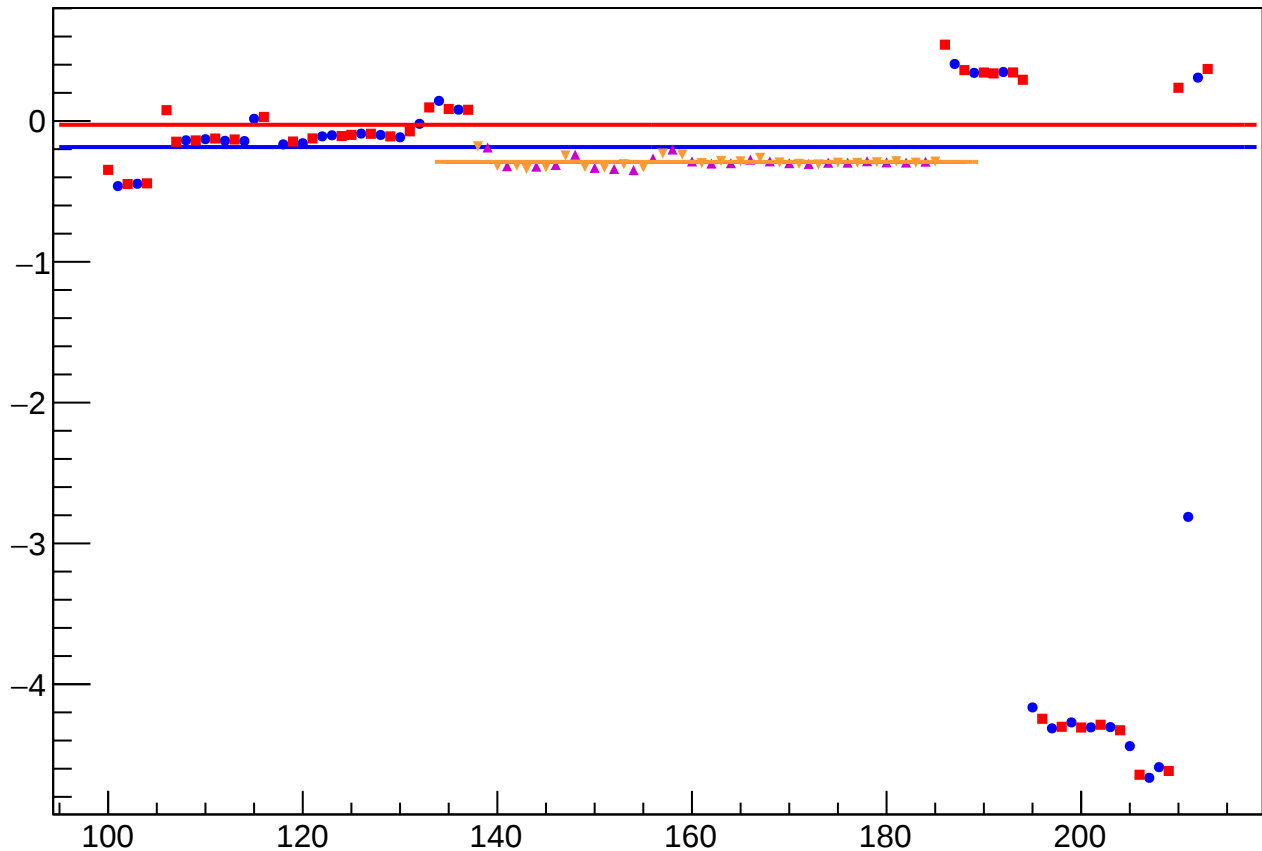
Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

+ sign 0.012+/-0.000 χ^2/NDF : 4610816.1/54

All: 0.011+/-0.000 χ^2/NDF : 8894766.2/111

- sign 0.011+/-0.000 χ^2/NDF : 4276460.3/56

yield_bpm0l08Y_mean vs Slug



Right In: -0.185 ± 0.000 χ^2/NDF : 367438273163.8/29

Left Out: -0.290 ± 0.000 χ^2/NDF : 2877519093.0/24

+ sign -0.273 ± 0.000 χ^2/NDF : 374655506092.6/54

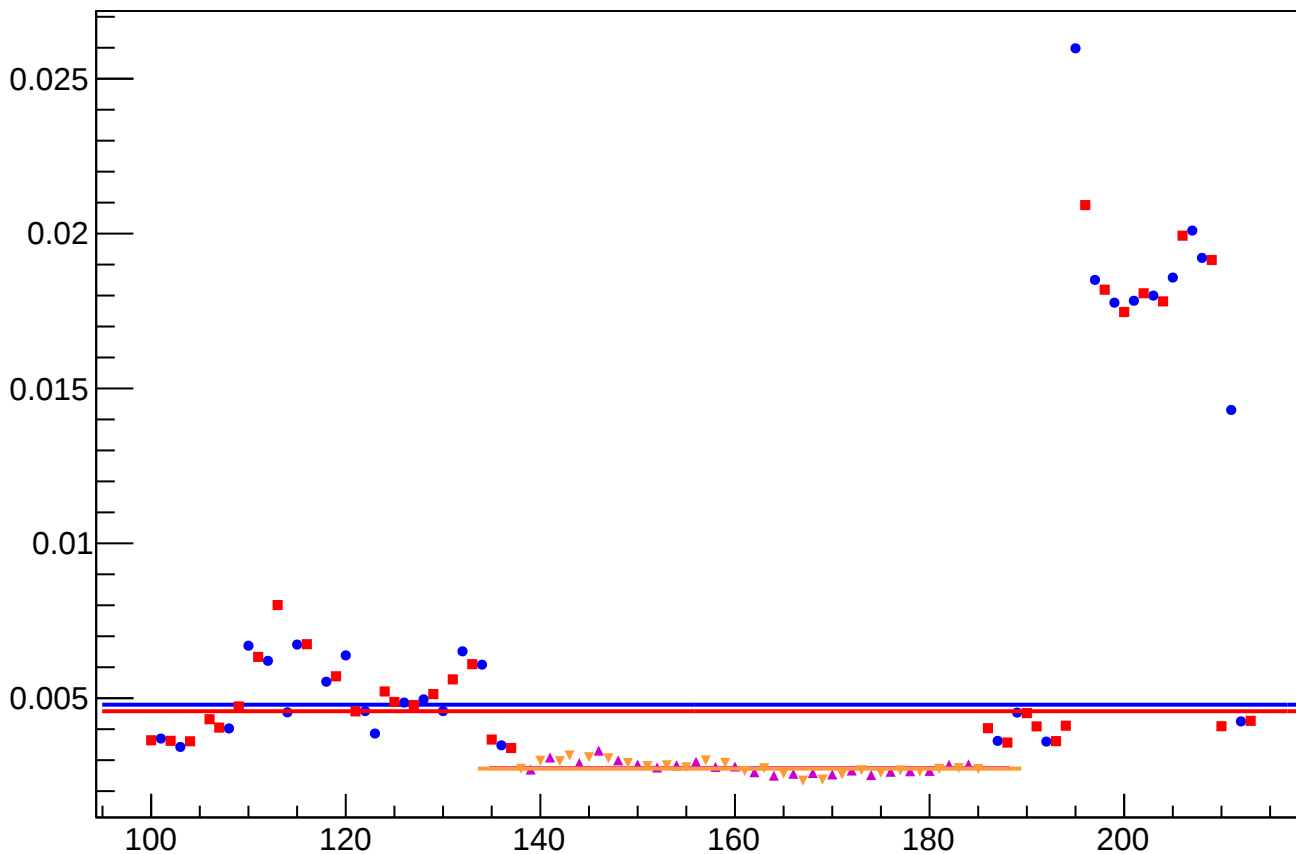
Right Out: -0.027 ± 0.000 χ^2/NDF : 343495947414.5/33

All: -0.253 ± 0.000 χ^2/NDF : 756596129993.9

Left In: -0.291 ± 0.000 χ^2/NDF : 3125402243.3/22

- sign -0.234 ± 0.000 χ^2/NDF : 379814583456.6/56

yield_bpm0l08Y_rms vs Slug



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 8513099.9/29

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:206527.1/24

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 6963815.3/33

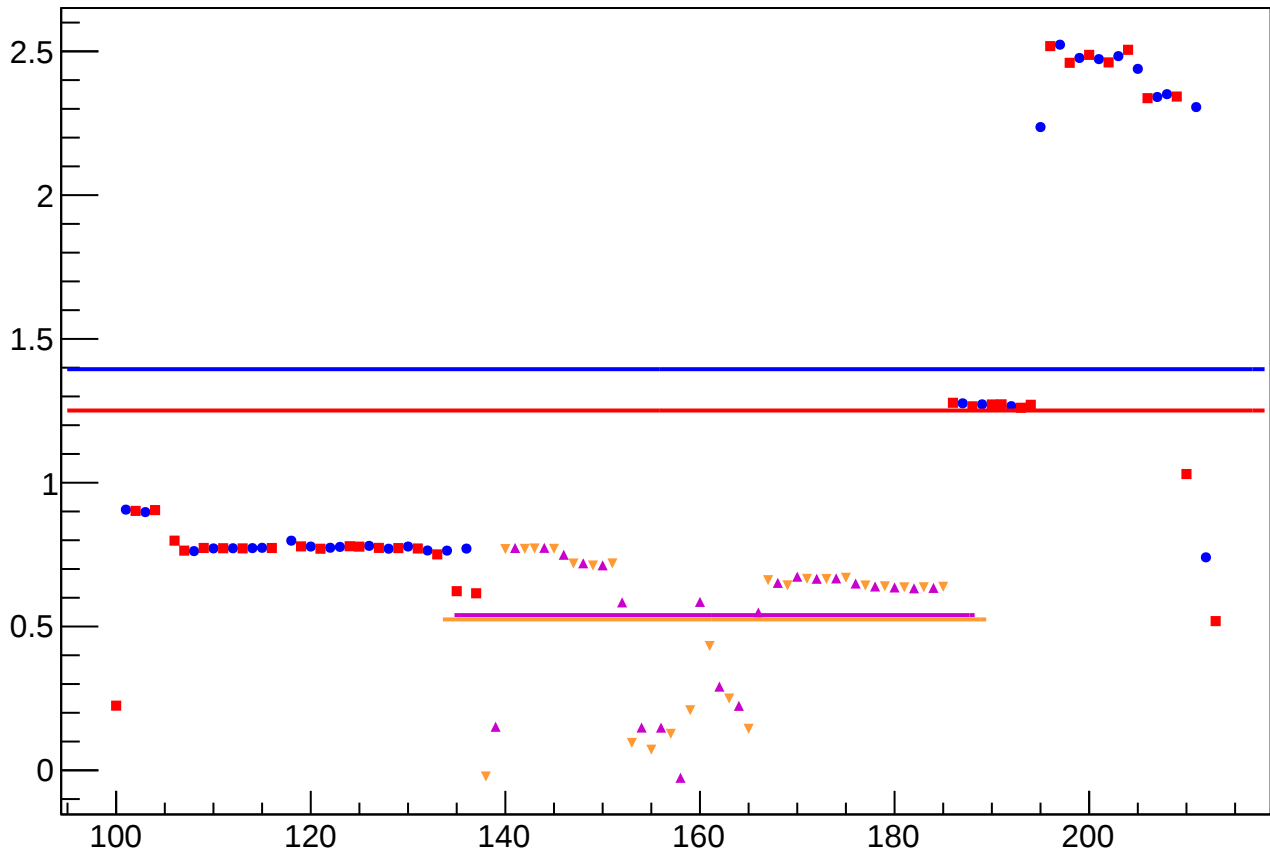
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:147778.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 12049970.1/54

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 22384070.5/111

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 10320852.0/56

yield_bpm0l09X_mean vs Slug



Right In: 1.395+/-0.000 χ^2/NDF : 57350464726.0/29

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 1.251+/-0.000 χ^2/NDF : 54684177626.6/33

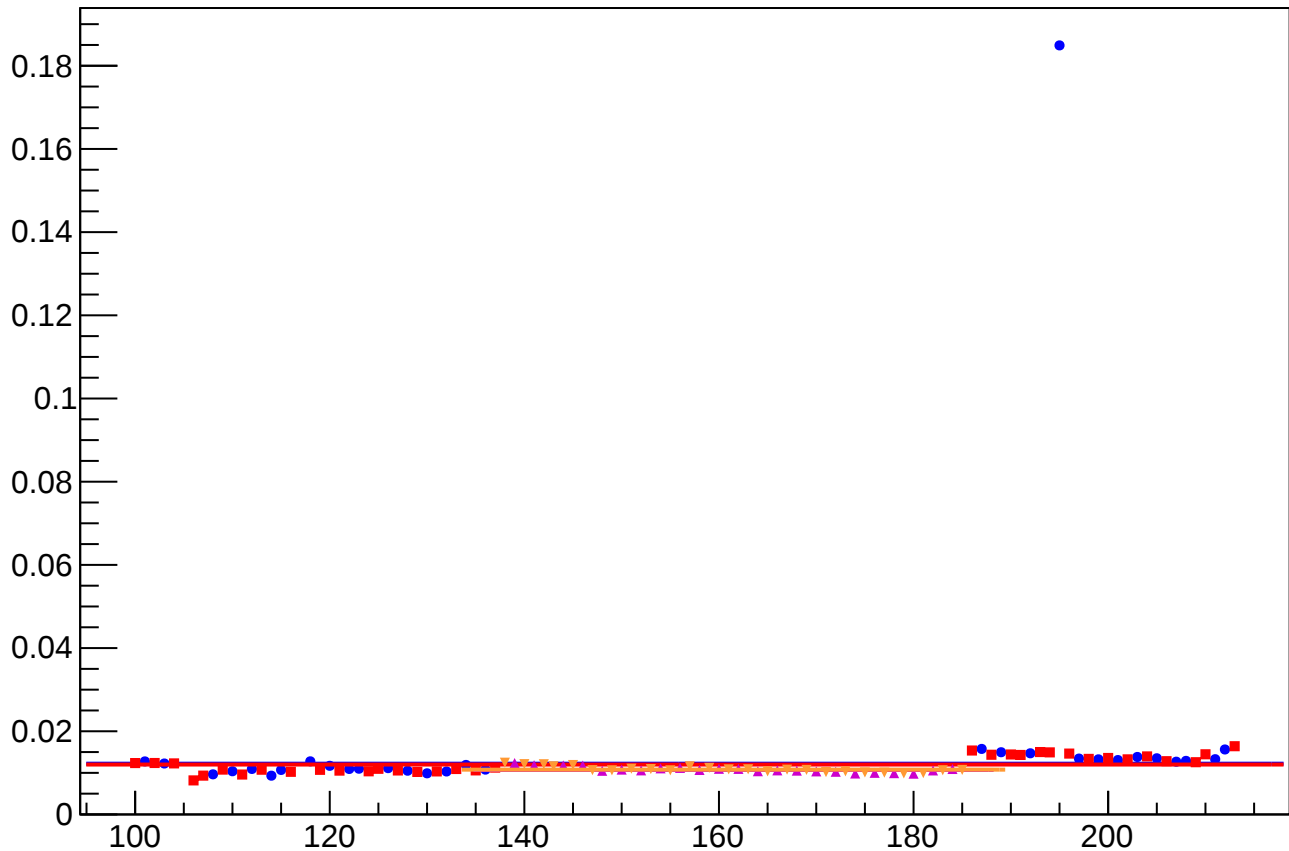
Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

+ sign 0.864+/-0.000 χ^2/NDF : 112022635657.0/54

All: 0.855+/-0.000 χ^2/NDF : 206405299727.9

- sign 0.846+/-0.000 χ^2/NDF : 94340129606.2/56

yield_bpm0l09X_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1979071.2/29

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:131630.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 871438.4/33

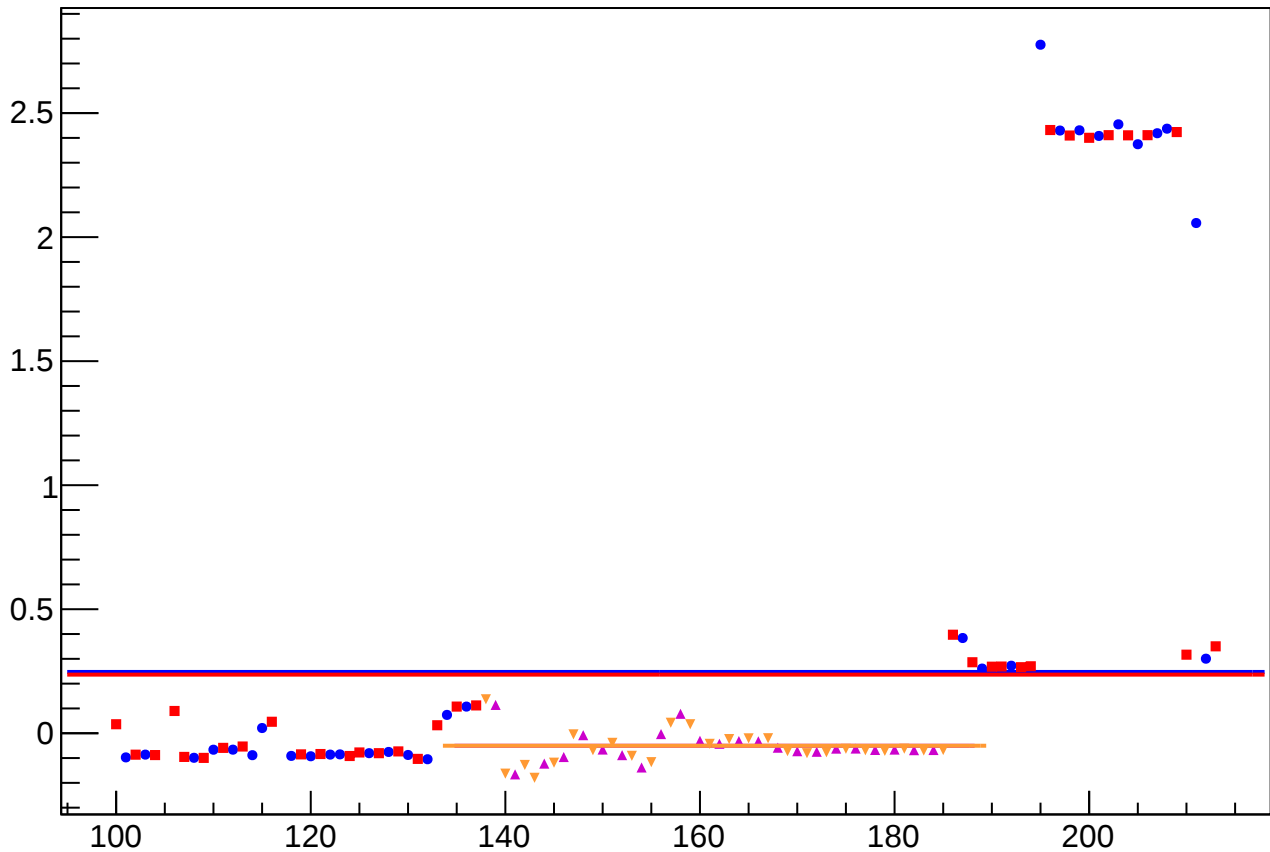
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:119273.2/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 2356148.2/54

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3562668.3/111

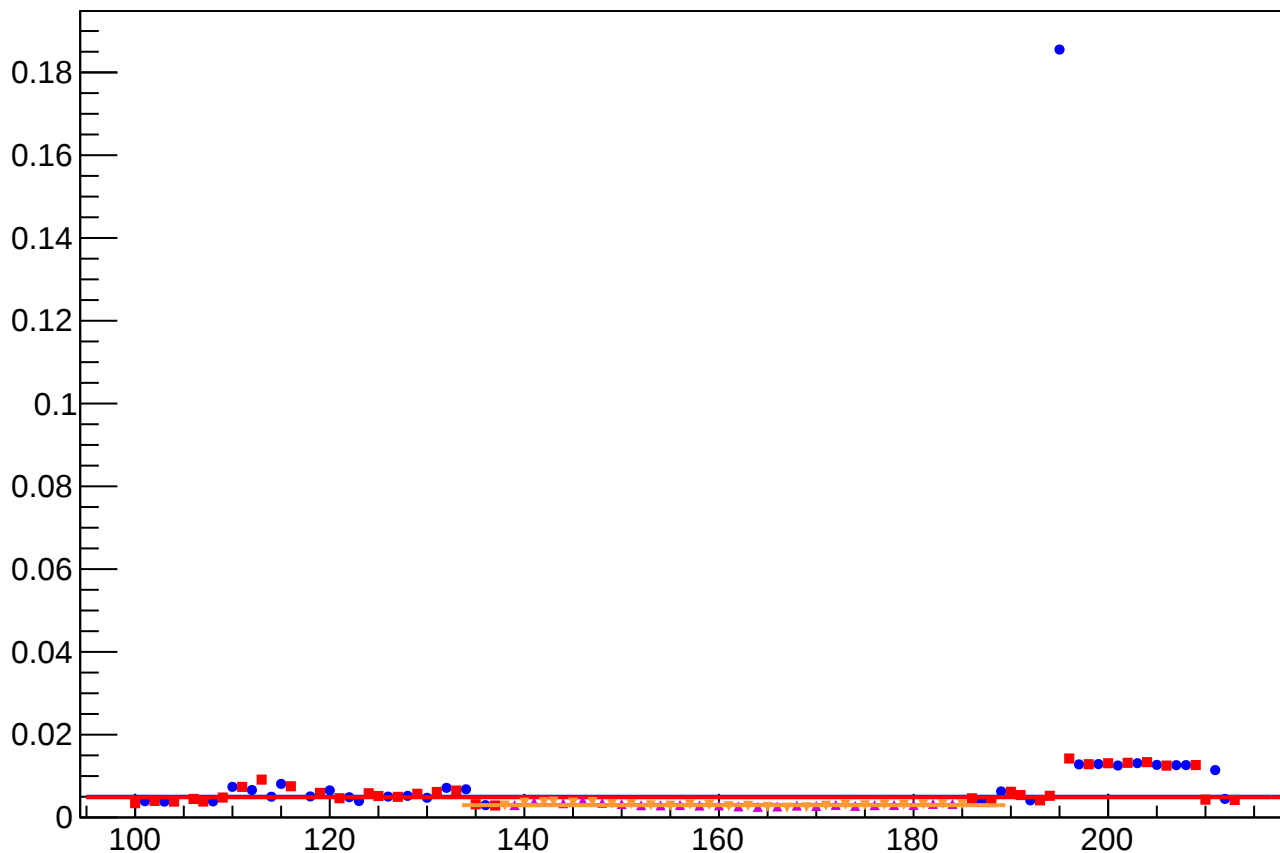
- sign 0.011 $\pm$ 0.000 χ^2 /NDF: 1205066.6/56

yield_bpm0l09Y_mean vs Slug



Right In: 0.247+/-0.000	χ^2/NDF : 195457088989.9/29	+ sign 0.005+/-0.000	χ^2/NDF : 234804408809.6/54
Left Out: -0.050+/-0.000	χ^2/NDF : 7271496478.6/24	All: 0.011+/-0.000	χ^2/NDF : 435456483340.9
Right Out: 0.236+/-0.000	χ^2/NDF : 160224040452.2/33	- sign 0.016+/-0.000	χ^2/NDF : 200509068516.3/56
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 : 7298824.5/29

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5155616.6/33

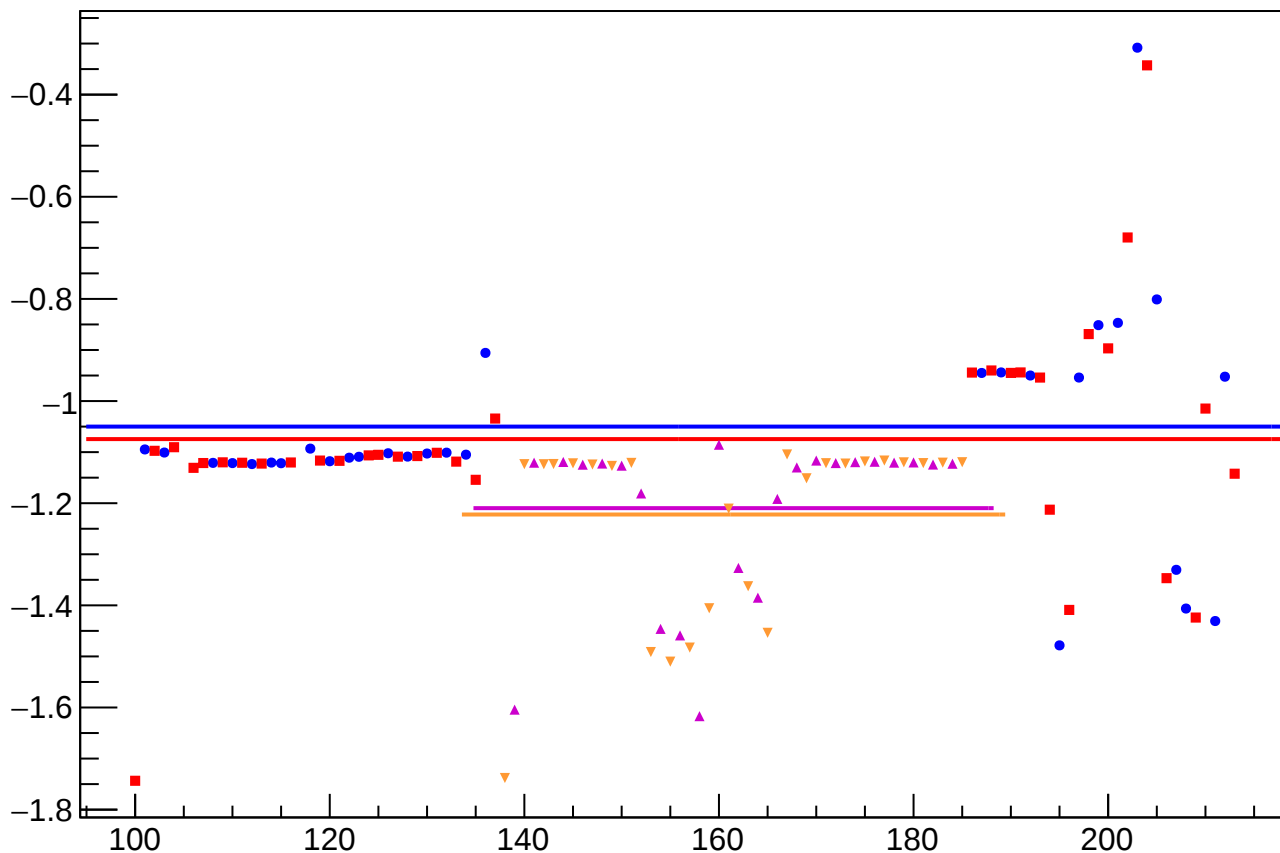
Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

+ sign 0.003+/-0.000 χ^2/NDF : 10799277.8/54

All: 0.003+/-0.000 χ^2/NDF : 19185878.3/111

- sign 0.003+/-0.000 χ^2/NDF : 8365778.5/56

yield_bpm0l10X_mean vs Slug



Right In: -1.050+/-0.000 χ^2/NDF : 5634058050.2/29

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.074+/-0.000 χ^2/NDF : 4662734096.5/33

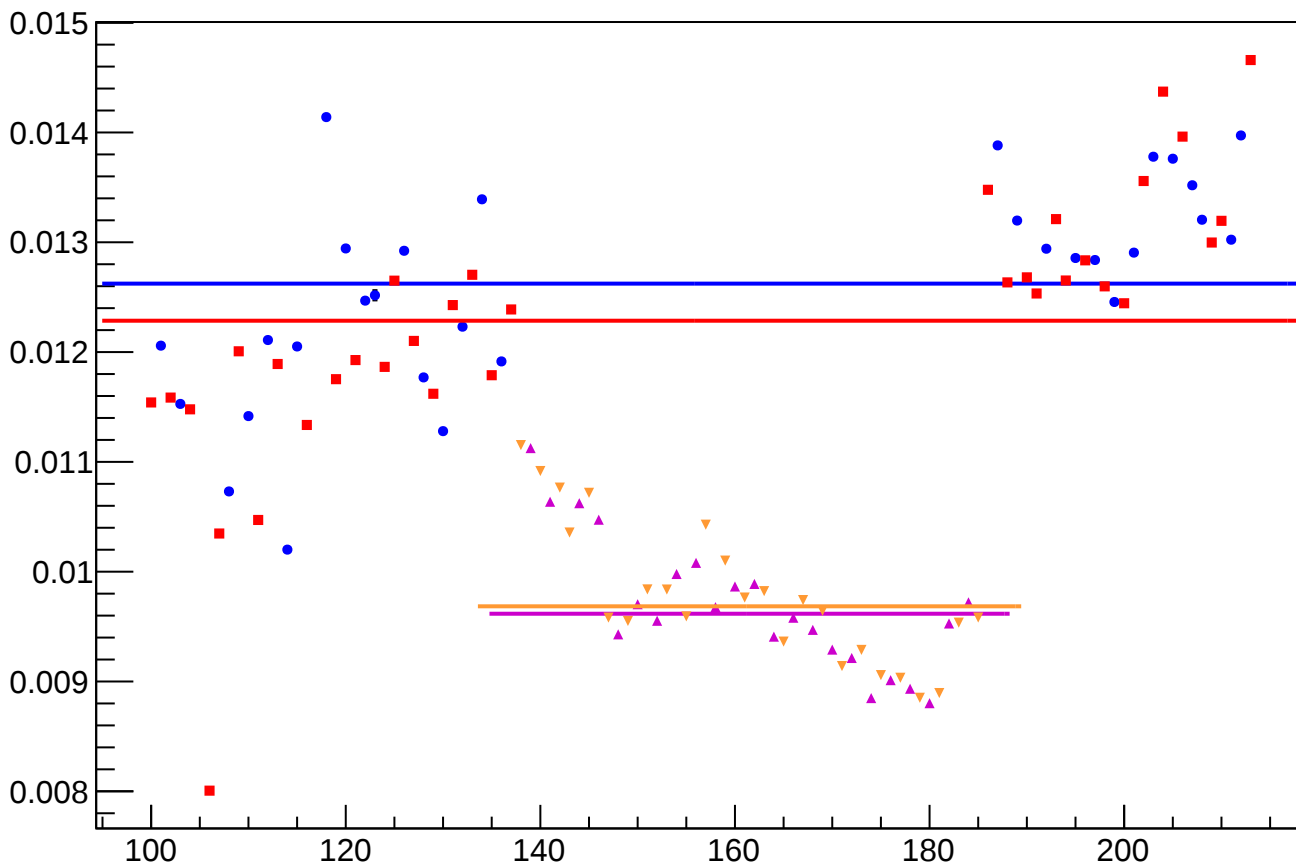
Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

+ sign -1.164+/-0.000 χ^2/NDF : 12811343070.3/54

All: -1.161+/-0.000 χ^2/NDF : 23233706423.4/100

- sign -1.159+/-0.000 χ^2/NDF : 10418202020.7/56

yield_bpm0l10X_rms vs Slug



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 148266.1/29

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2/NDF : 370696.5/33

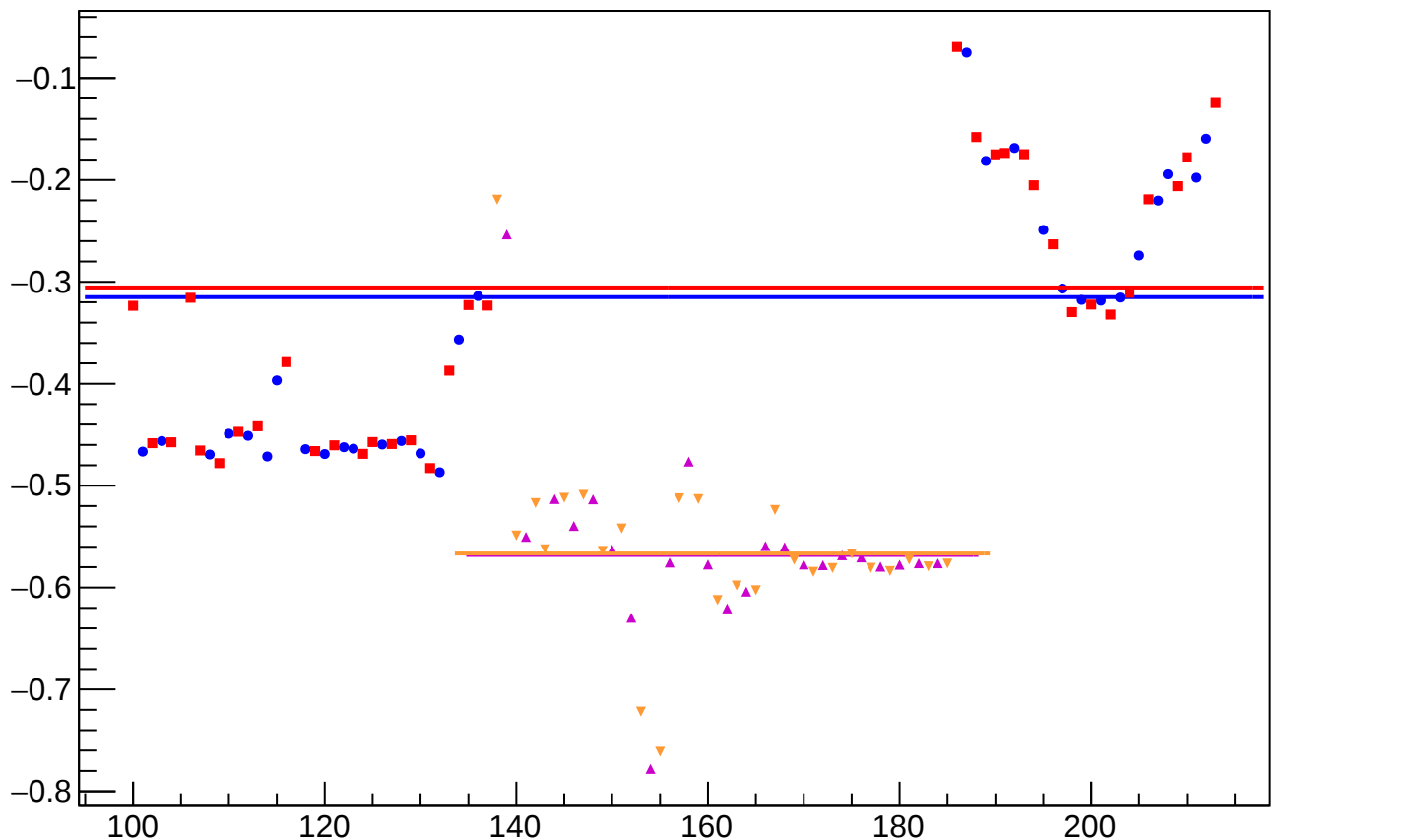
Left In: 0.010 $\pm$ 0.000 χ^2/NDF :119823.1/22

+ sign 0.011 $\pm$ 0.000 χ^2/NDF : 1389523.5/54

All: 0.011 $\pm$ 0.000 χ^2/NDF : 2857128.4/111

- sign 0.011 $\pm$ 0.000 χ^2/NDF : 1466819.3/56

yield_bpm0l10Y_mean vs Slug



Right In: -0.315+/-0.000 χ^2/NDF : 11930811602.4/29

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.305+/-0.000 χ^2/NDF : 14327710948.8/33

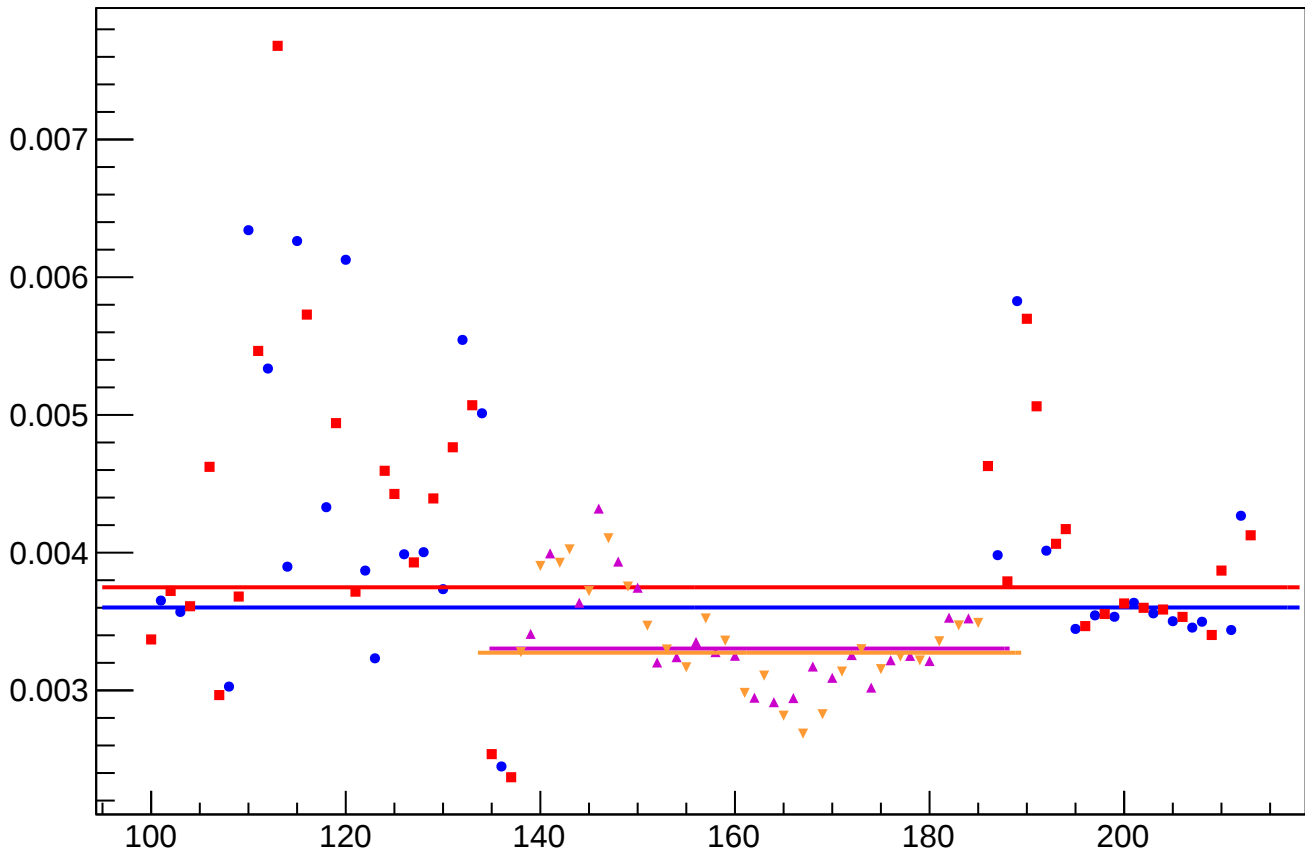
Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

+ sign -0.464+/-0.000 χ^2/NDF : 66611017999.8/54

All: -0.460+/-0.000 χ^2/NDF : 135046257374.0

- sign -0.456+/-0.000 χ^2/NDF : 68344461601.1/56

yield_bpm0l10Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 1036011.2/29

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1099126.3/33

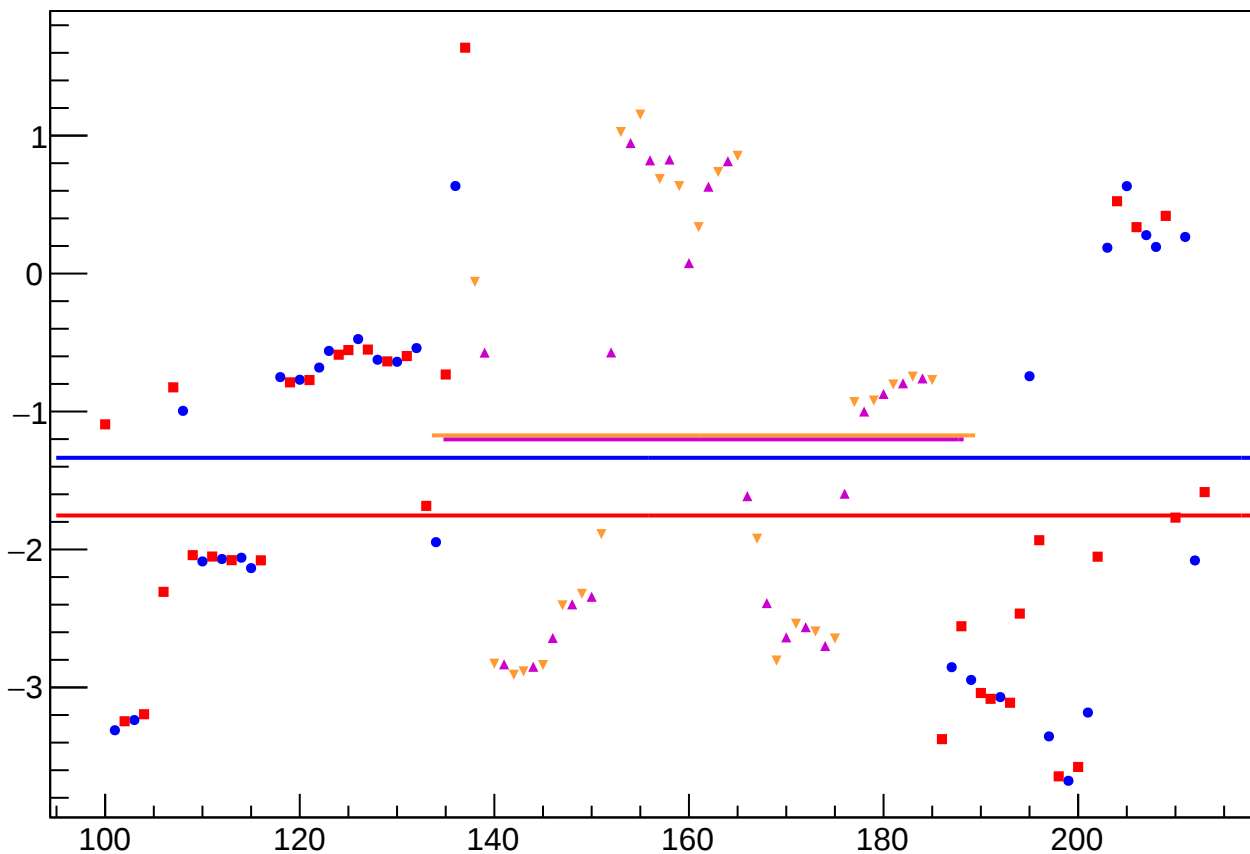
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:286064.1/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1571721.7/54

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3226880.8/111

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1635338.9/56

yield_bpm0r03X_mean vs Slug



Right In: -1.336+/-0.000 χ^2/NDF : 6156156096.1/29

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.754+/-0.000 χ^2/NDF : 5219550970.3/33

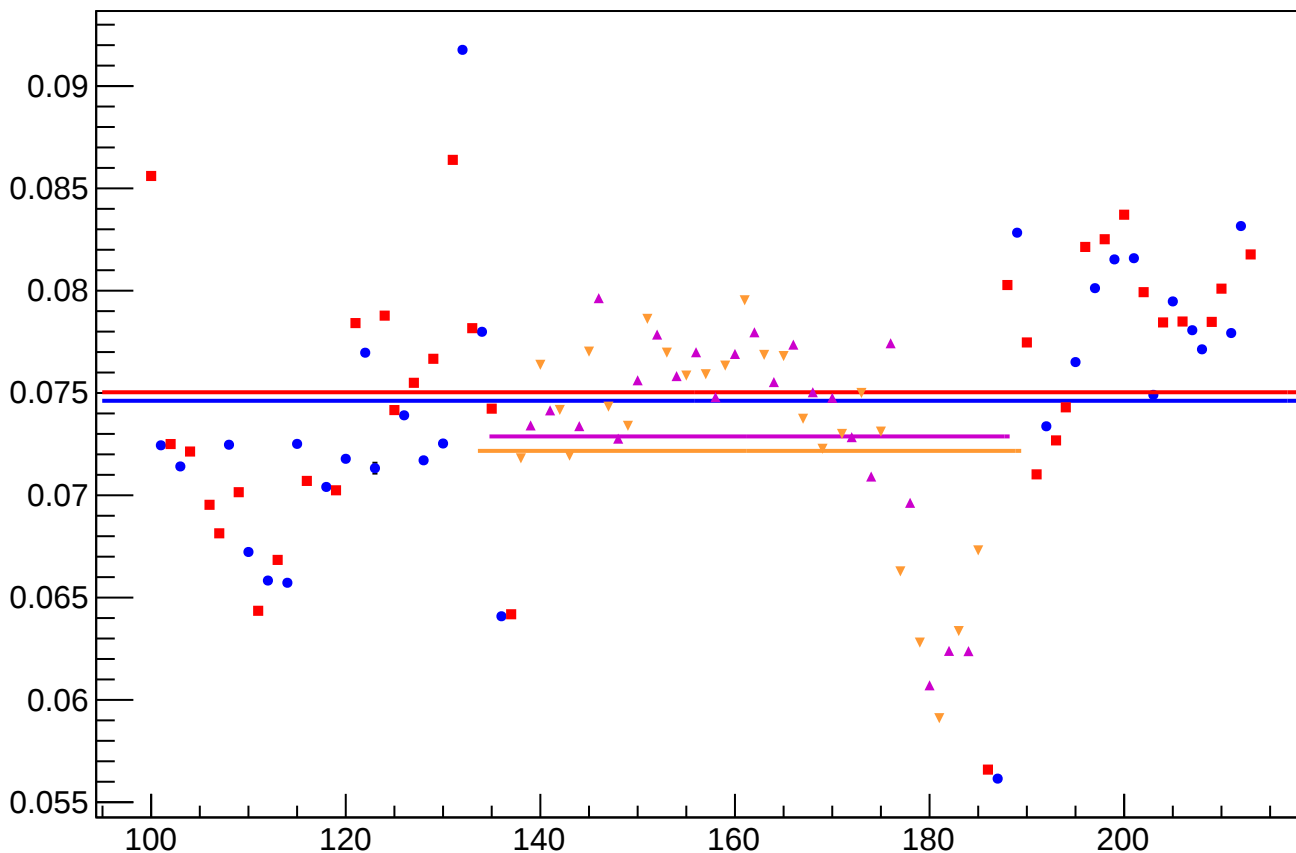
Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

+ sign -1.246+/-0.000 χ^2/NDF : 13079751310.4/54

All: -1.357+/-0.000 χ^2/NDF : 24534424403.6/100

- sign -1.470+/-0.000 χ^2/NDF : 11298394995.9/56

yield_bpm0r03X_rms vs Slug



Right In: 0.075 $\pm$ 0.000 χ^2 /NDF: 211625.7/29

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 251904.3/33

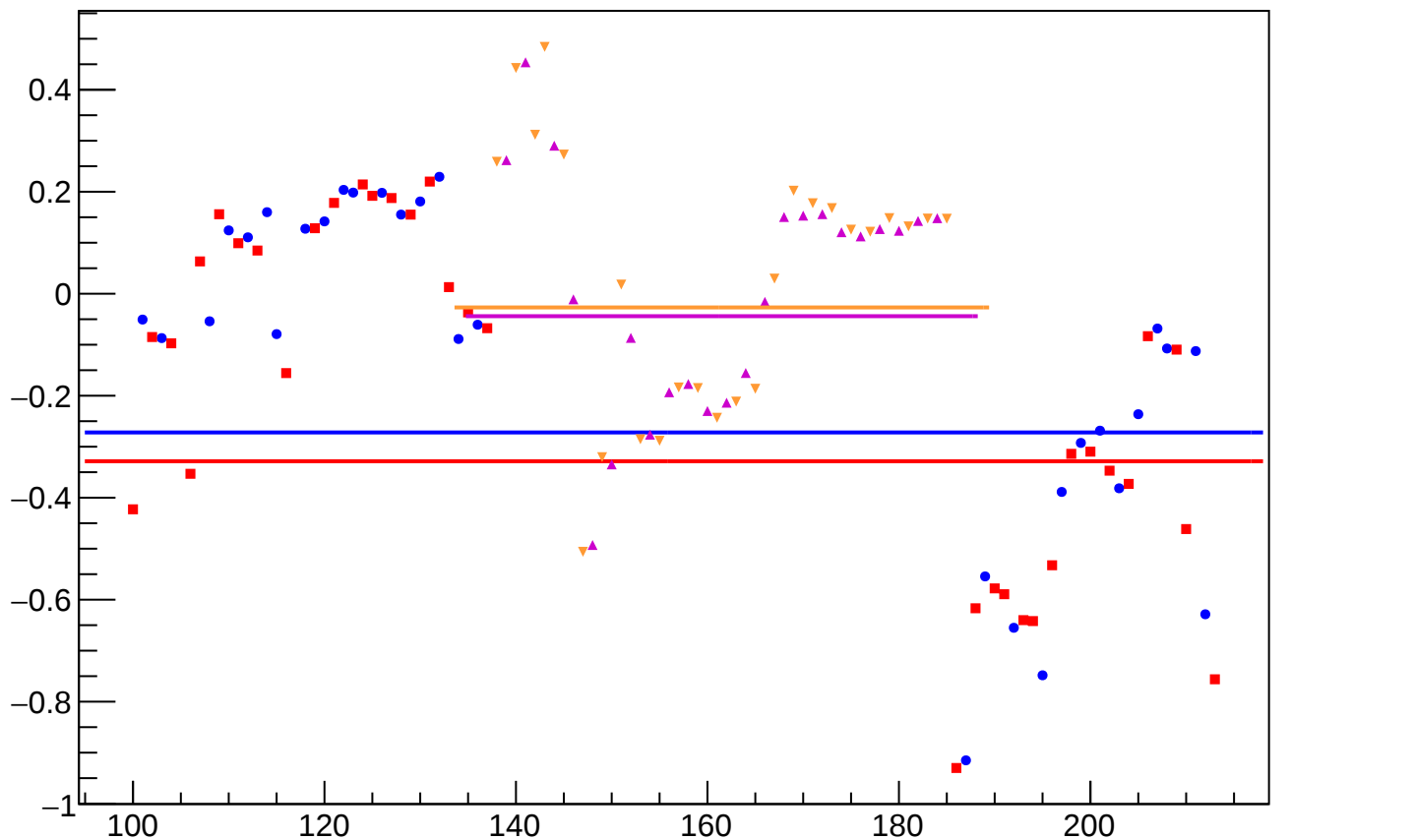
Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

+ sign 0.073 $\pm$ 0.000 χ^2 /NDF: 452469.8/54

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 905035.0/111

- sign 0.074 $\pm$ 0.000 χ^2 /NDF: 449862.1/56

yield_bpm0r03Y_mean vs Slug



Right In: -0.272 ± 0.000 $\chi^2/\text{NDF}: 15081522920.1/29$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.328 ± 0.000 $\chi^2/\text{NDF}: 15502810422.9/33$

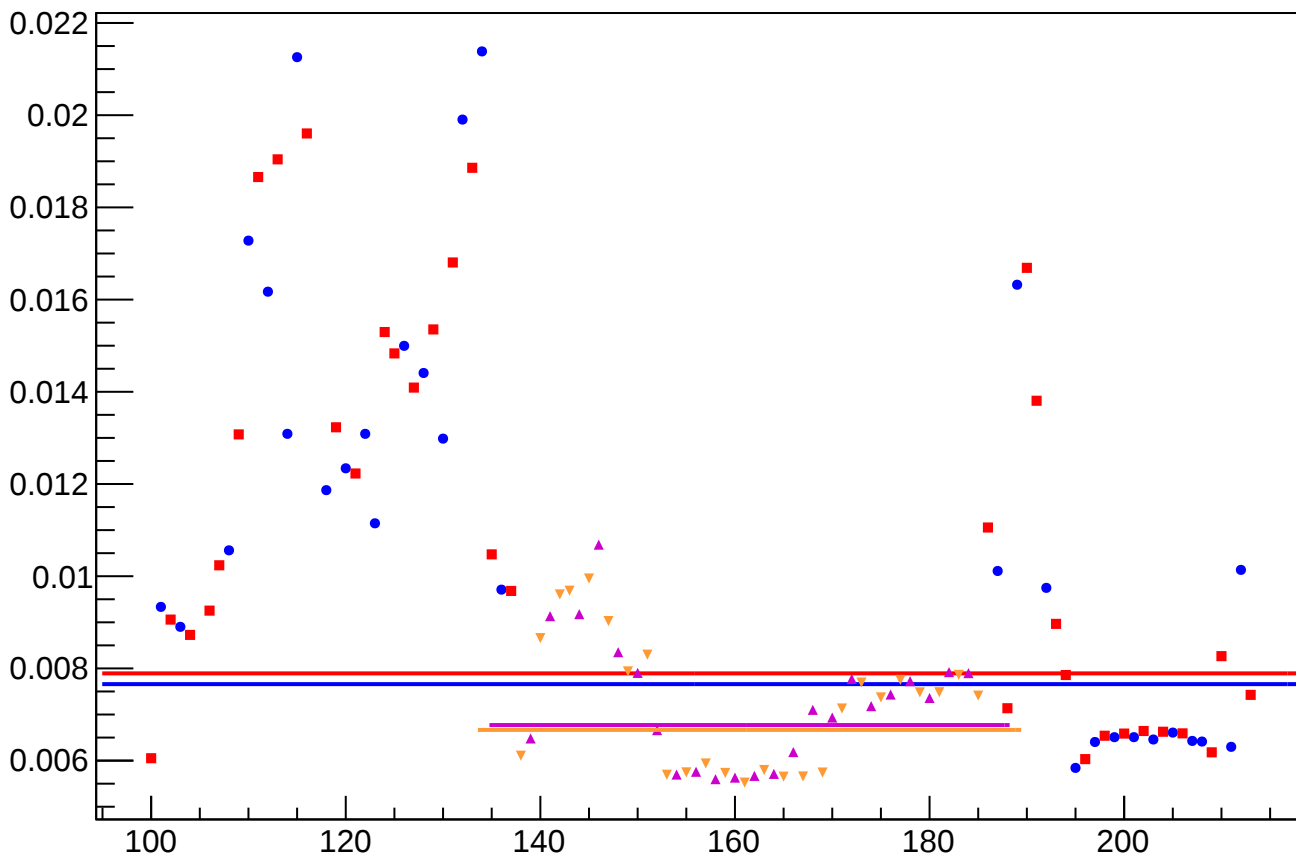
Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

+ sign -0.120 ± 0.000 $\chi^2/\text{NDF}: 44090277083.4/54$

All: -0.139 ± 0.000 $\chi^2/\text{NDF}: 86926509643.7/100$

- sign -0.158 ± 0.000 $\chi^2/\text{NDF}: 42408903901.5/56$

yield_bpm0r03Y_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 2937093.5/29

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3079831.8/33

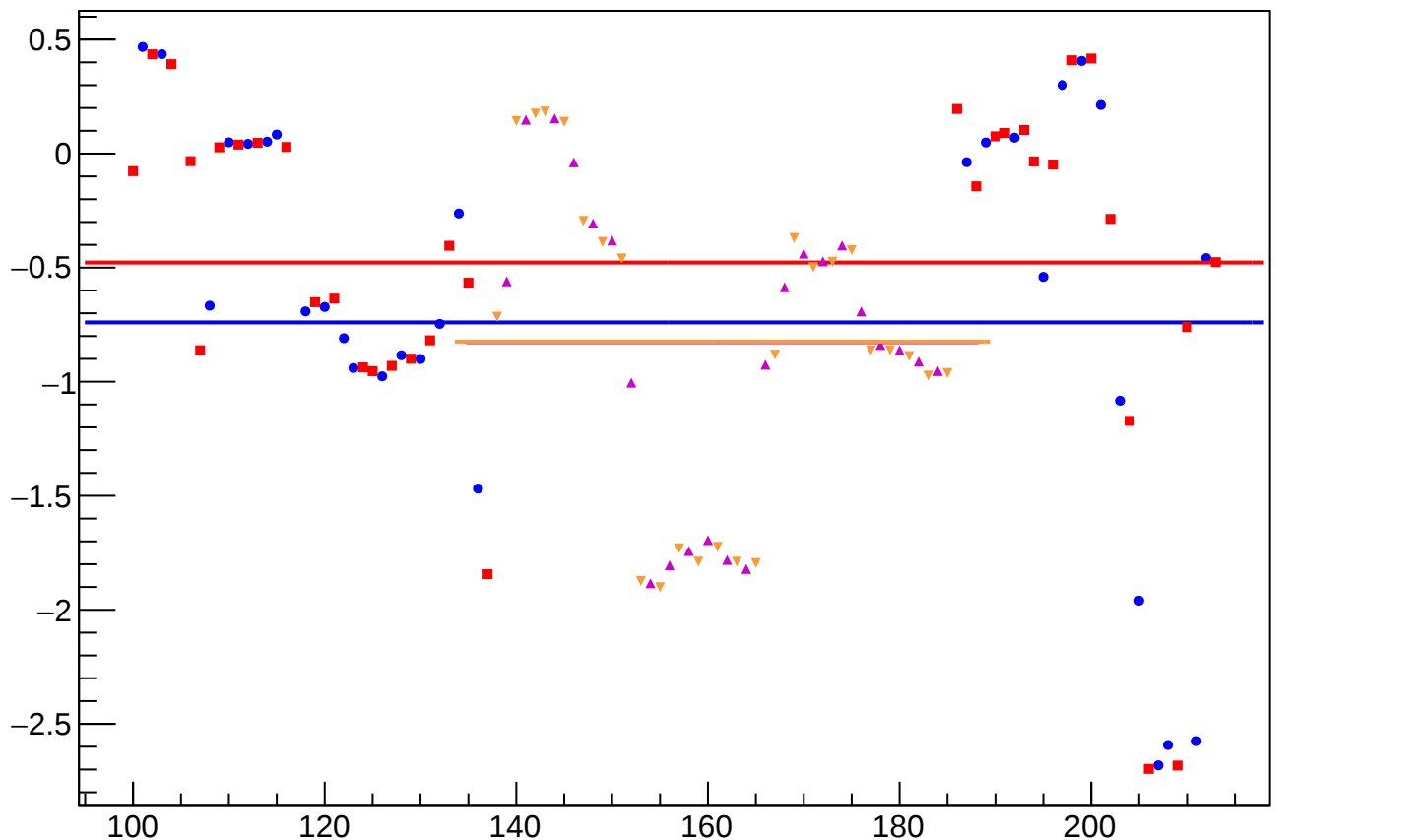
Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

+ sign 0.007+/-0.000 χ^2/NDF : 4364115.5/54

All: 0.007+/-0.000 χ^2/NDF : 8744153.0/111

- sign 0.007+/-0.000 χ^2/NDF : 4361393.5/56

yield_bpm0r05X_mean vs Slug



Right In: -0.740 ± 0.000 $\chi^2/\text{NDF}: 1757302734.7/29$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.478 ± 0.000 $\chi^2/\text{NDF}: 1474547095.8/33$

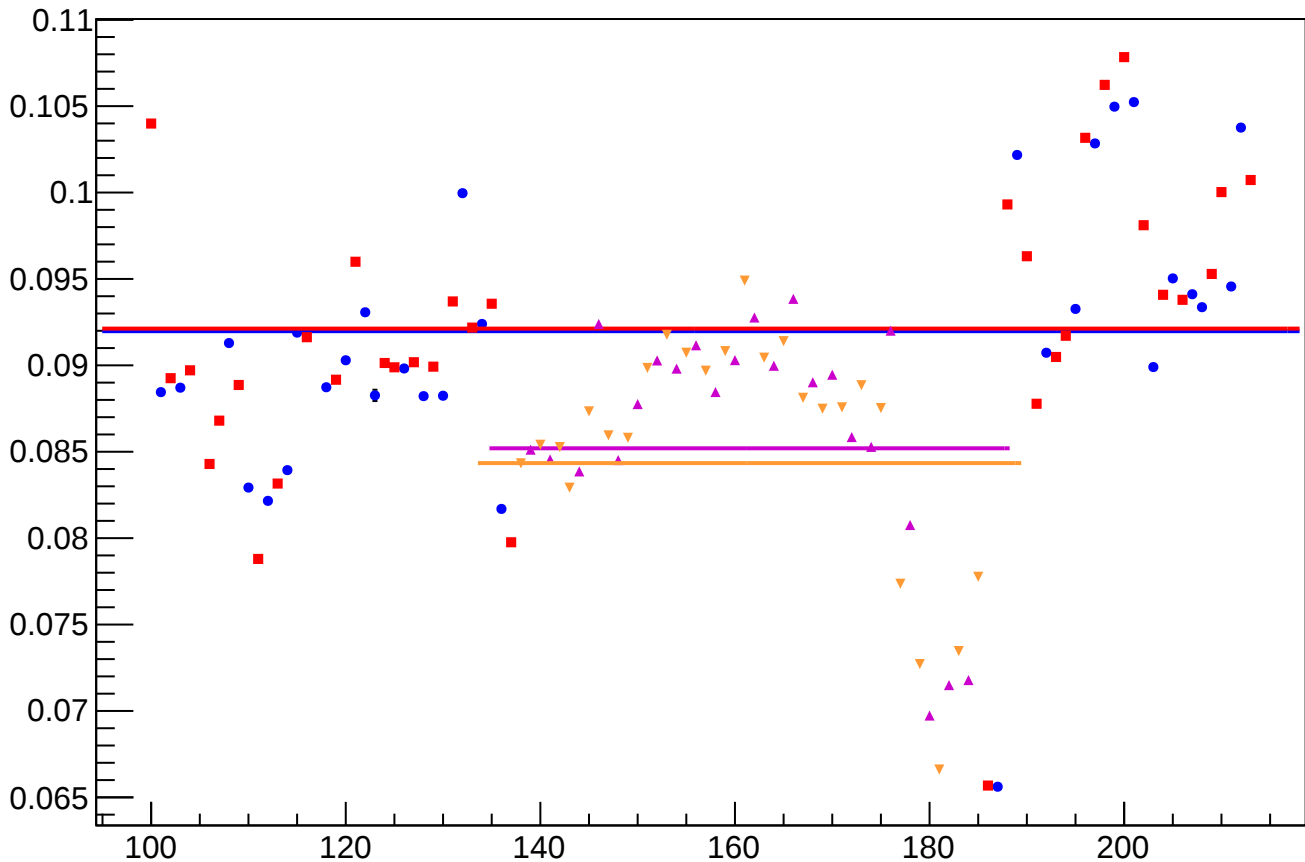
Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

+ sign -0.789 ± 0.000 $\chi^2/\text{NDF}: 2868547789.2/54$

All: -0.728 ± 0.000 $\chi^2/\text{NDF}: 5430534171.1/11$

- sign -0.666 ± 0.000 $\chi^2/\text{NDF}: 2528825270.5/56$

yield_bpm0r05X_rms vs Slug



Right In: 0.092 $\pm$ 0.000 χ^2 /NDF: 212979.6/29

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 304878.8/33

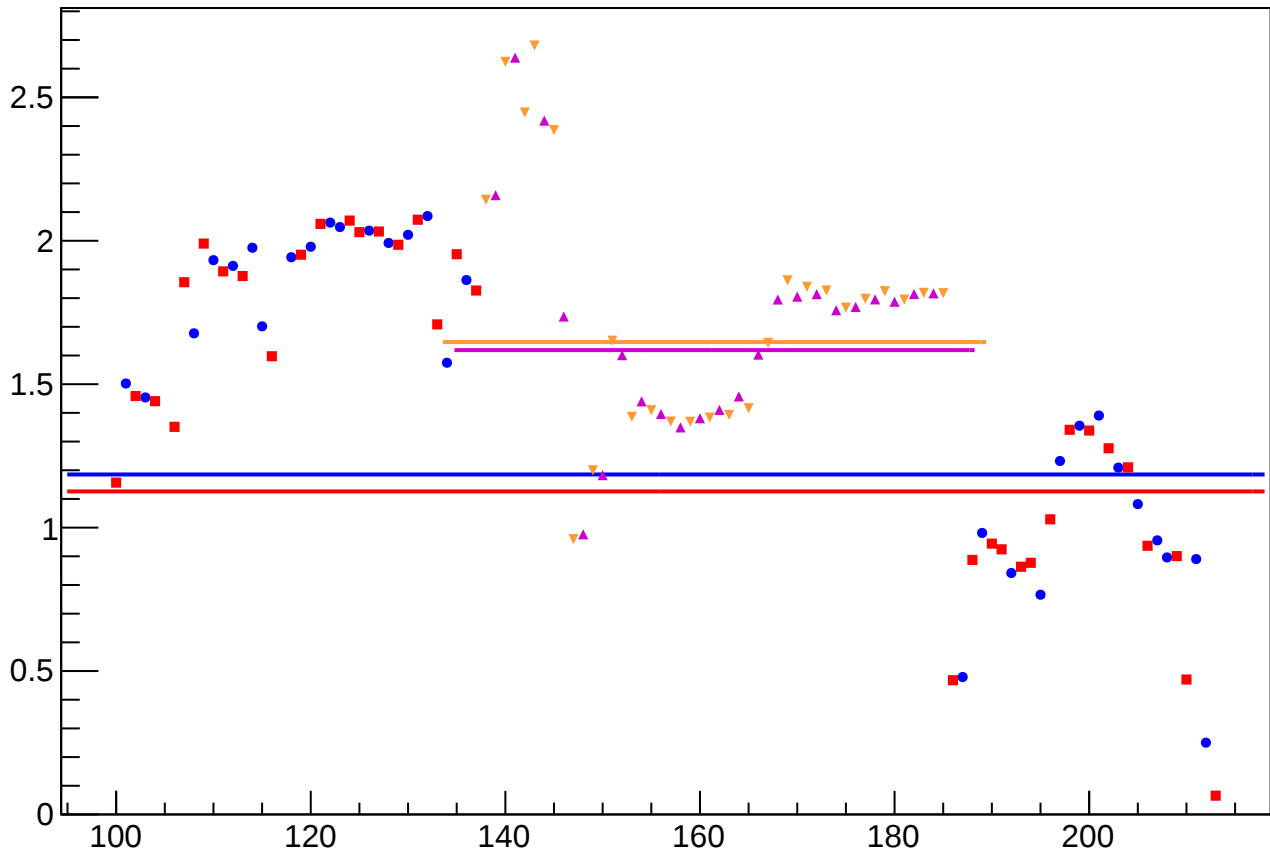
Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

+ sign 0.088 $\pm$ 0.000 χ^2 /NDF: 626993.4/54

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1277480.3/111

- sign 0.088 $\pm$ 0.000 χ^2 /NDF: 647482.3/56

yield_bpm0r05Y_mean vs Slug



Right In: 1.185+/-0.000 χ^2/NDF : 19997116867.3/29

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.126+/-0.000 χ^2/NDF : 24135203484.0/33

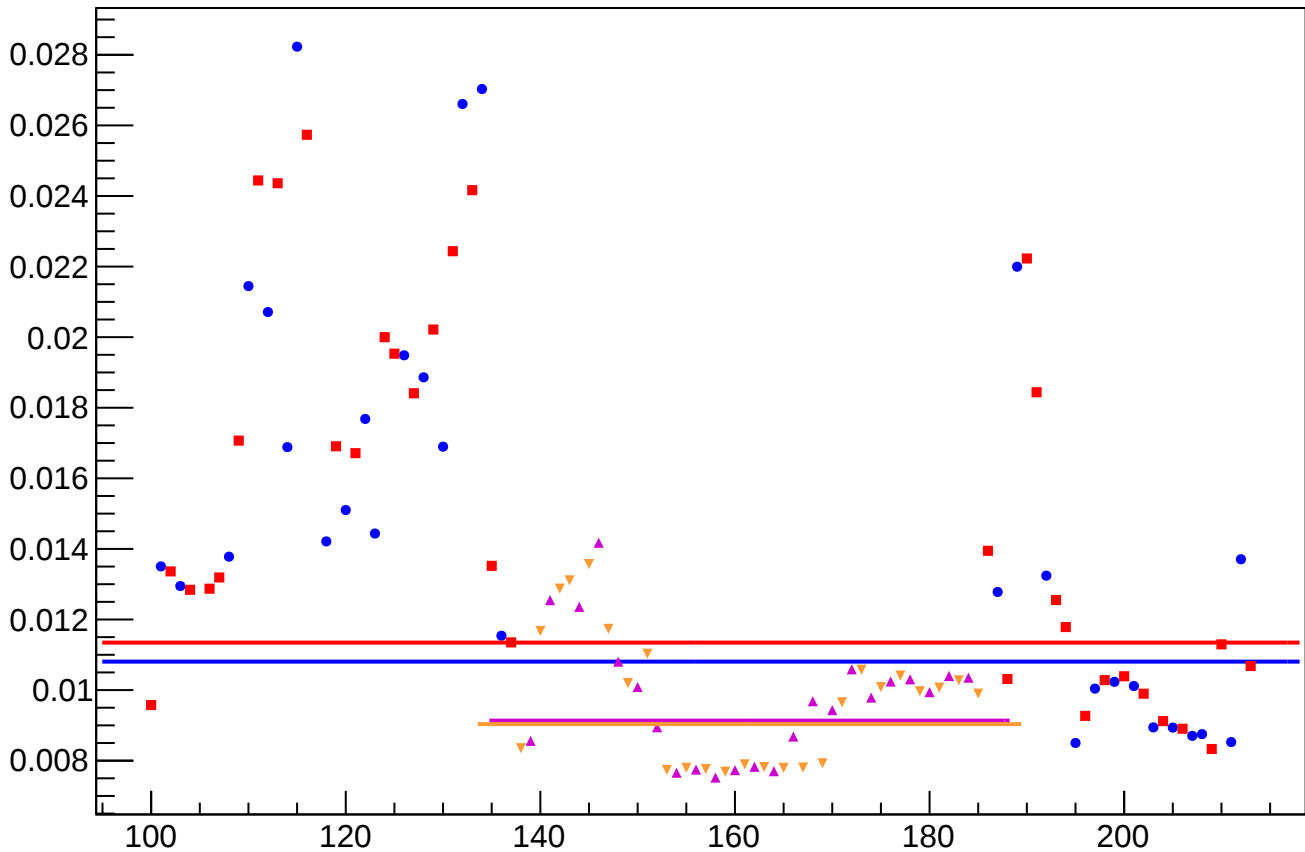
Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

+ sign 1.479+/-0.000 χ^2/NDF : 62618294439.3/54

All: 1.458+/-0.000 χ^2/NDF : 125057635776.3

- sign 1.435+/-0.000 χ^2/NDF : 62124168350.0/56

yield_bpm0r05Y_rms vs Slug



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 2412773.1/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1042871.8/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 2529999.9/33

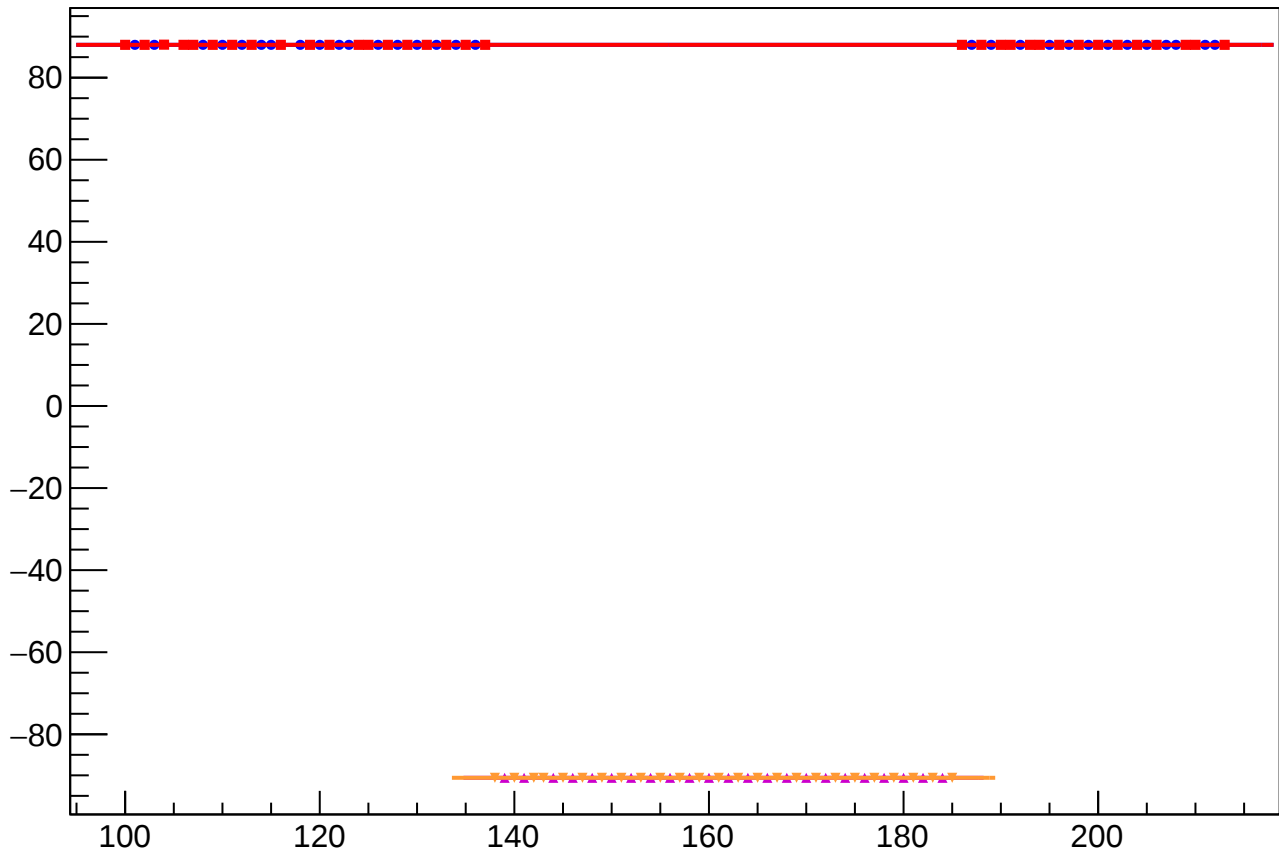
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:878356.2/22

+ sign 0.010 $\pm$ 0.000 χ^2 /NDF: 3929179.5/54

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 8062722.3/111

- sign 0.010 $\pm$ 0.000 χ^2 /NDF: 4108206.4/56

epics_VWienAngles_mean vs Slug



Right In: 88.001+/-0.000 χ^2/NDF : 3182100.8/29

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81039712137946389306203439104.0/33

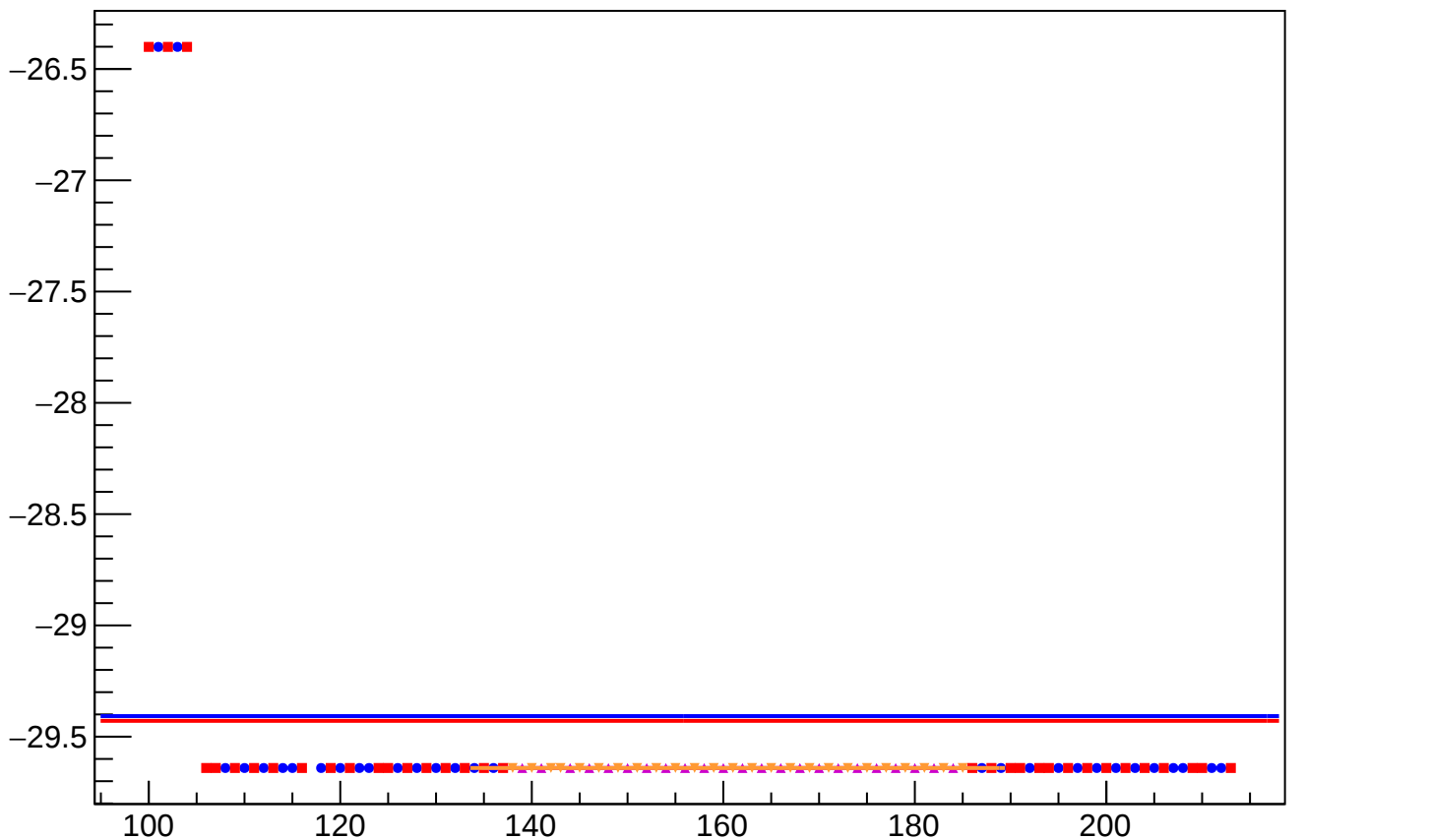
Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

+ sign -7.975+/-0.000 χ^2/NDF : 2811159566488009

All: -4.914+/-0.000 χ^2/NDF : 5663792860710

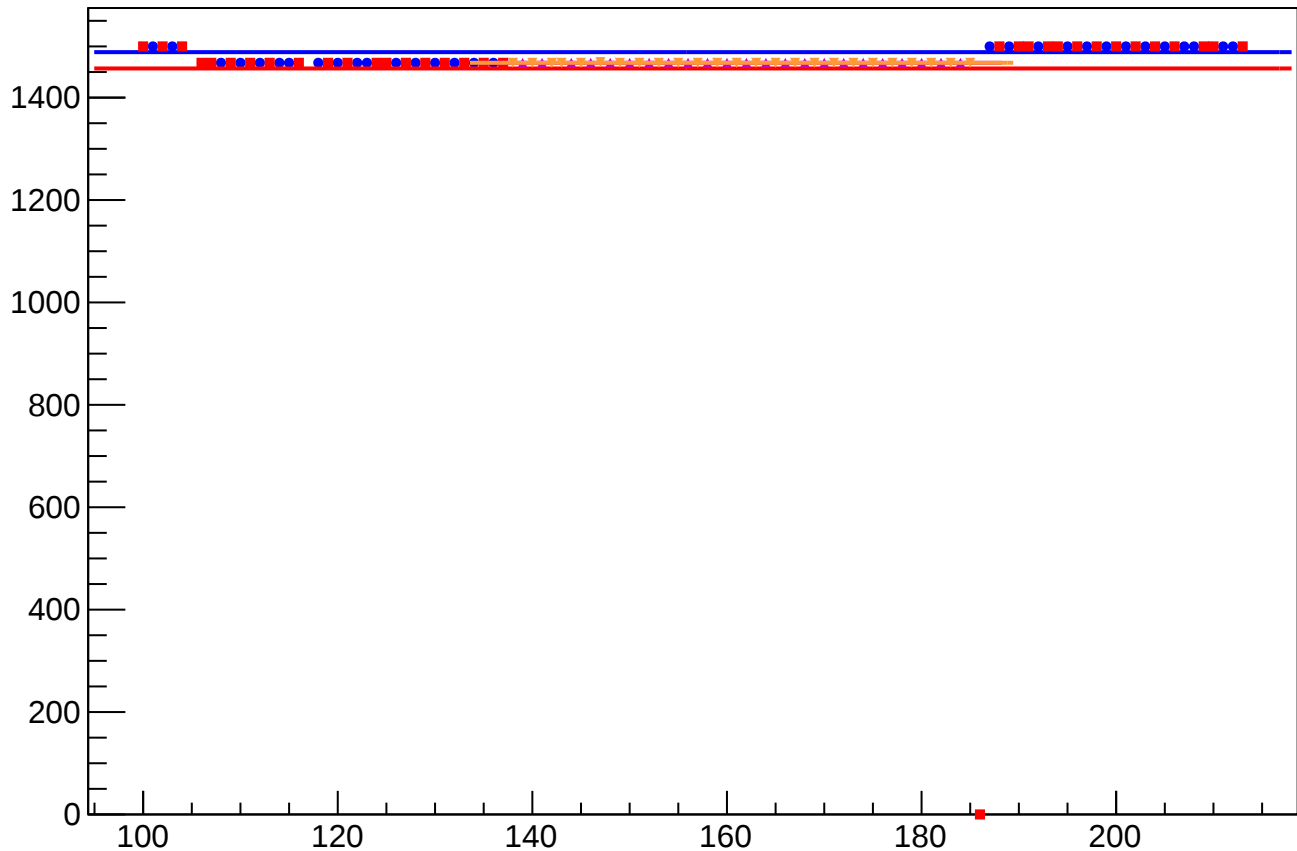
- sign -1.874+/-0.000 χ^2/NDF : 2846014370988725

epics_HWienAngles_mean vs Slug



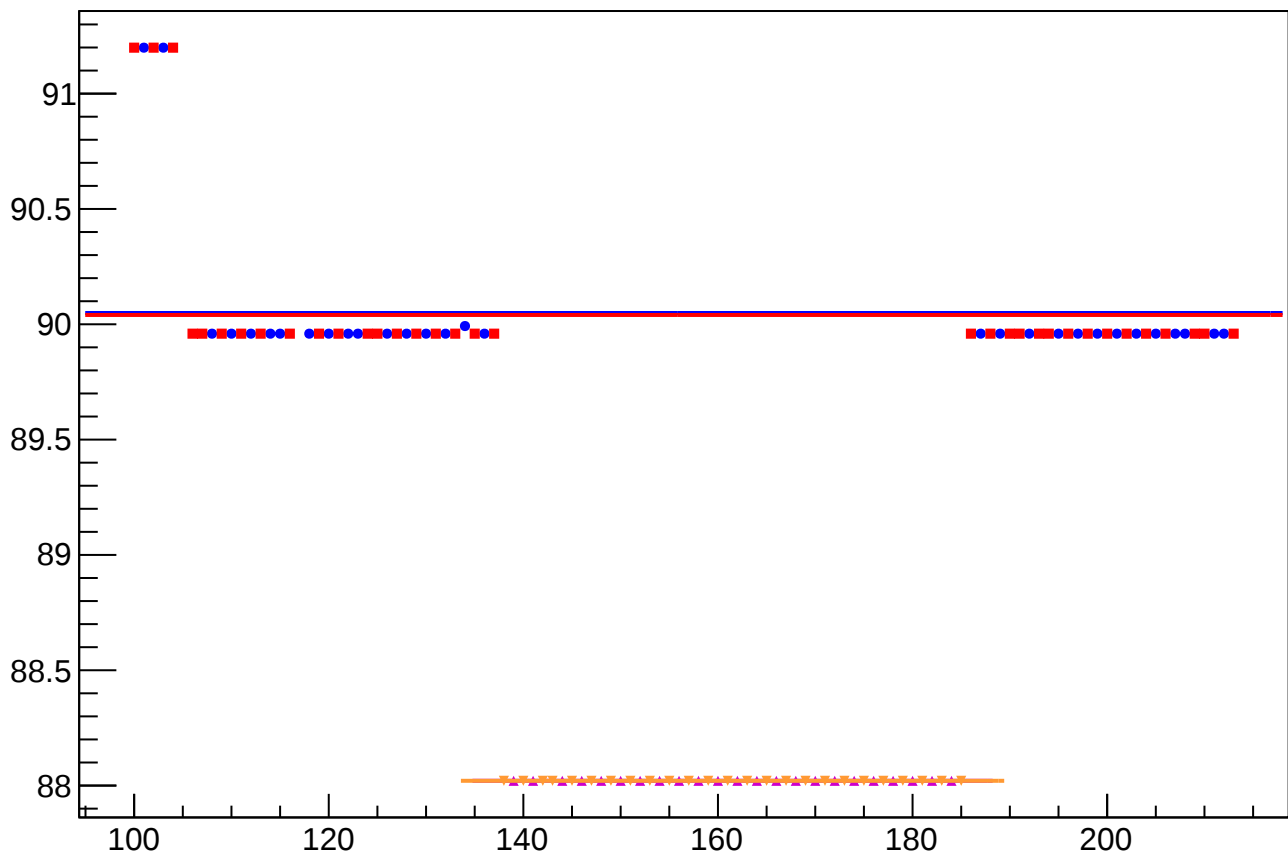
Right In: -29.408+/-0.000 χ^2/NDF : 1149589615609748382410124782731264.0/29
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24 + sign -29.533+/-0.000 χ^2/NDF : 119748447774328
 Right Out: -29.429+/-0.000 χ^2/NDF : 1138051151269020880481693009444864.0/33 All: -29.534+/-0.000 χ^2/NDF : 237563904863
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22 - sign -29.535+/-0.000 χ^2/NDF : 1178143089044524

epics_psub_pl_poss_mean vs Slug



Right In: 1488.813 +/- 0.000 χ^2/NDF : 382269186893802362516052301129449472.0/29
+ sign 1477.654 +/- 0.000 χ^2/NDF : 76240523987519
Left Out: 1468.048 +/- 0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
All: 1470.054 +/- 0.000 χ^2/NDF : 84110878853
Right Out: 1456.943 +/- 0.000 χ^2/NDF : 82831314757245295880748752022951428096.0/33
- sign 1462.504 +/- 0.000 χ^2/NDF : 82940262615086
Left In: 1467.994 +/- 0.000 χ^2/NDF : 144497772795444989723550941184.0/22

epics_Phi_FGs_mean vs Slug



Right In: 90.049 $\pm$ 0.000 χ^2 /NDF: 168281002219981515023178690199552.0/29

Left Out: 88.021 $\pm$ 0.000 χ^2 /NDF: 5679798.5/24

Right Out: 90.040 $\pm$ 0.000 χ^2 /NDF: 166692143936874971510791865368576.0/33

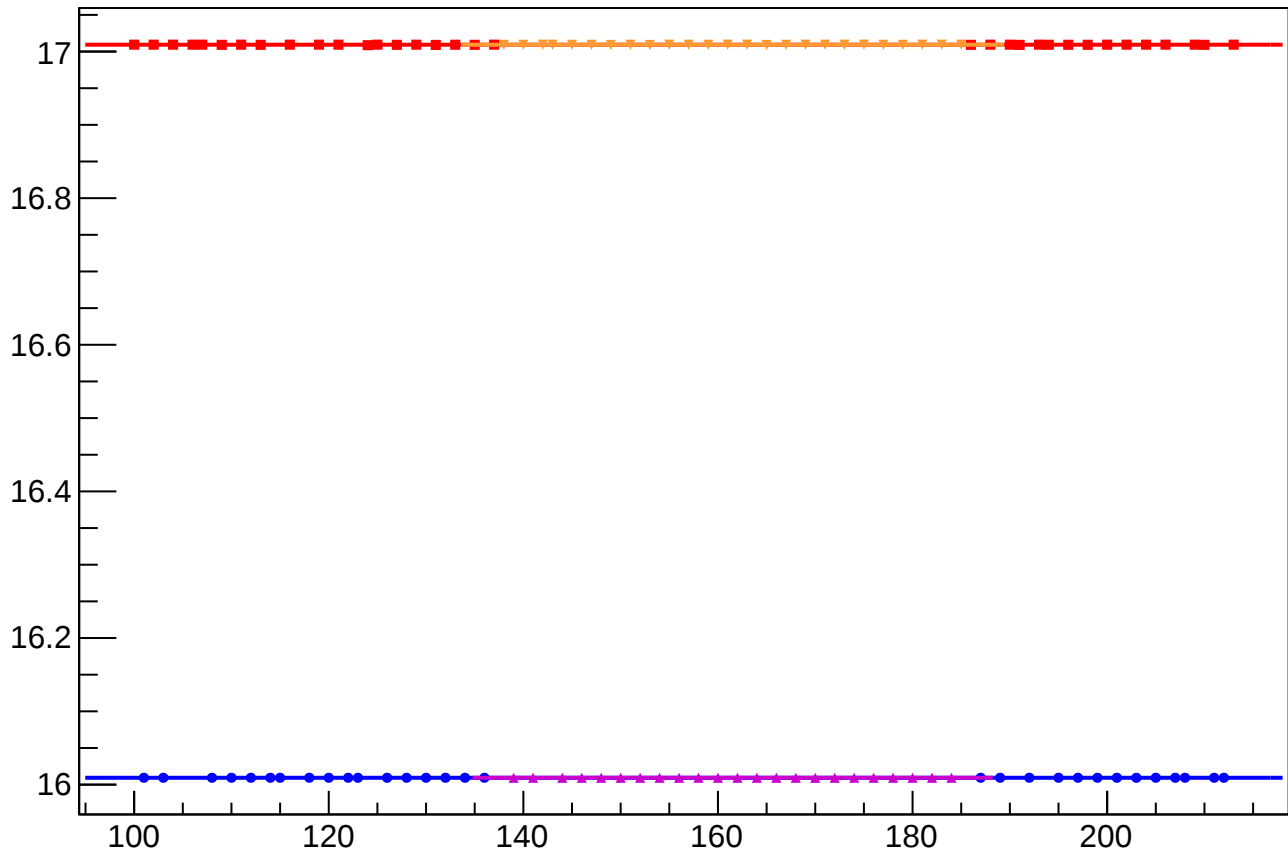
Left In: 88.021 $\pm$ 0.000 χ^2 /NDF: 6257169.0/22

+ sign 88.959 $\pm$ 0.000 χ^2 /NDF: 3793712935213125

All: 88.992 $\pm$ 0.000 χ^2 /NDF: 7607512088034

- sign 89.024 $\pm$ 0.000 χ^2 /NDF: 3806275063482549

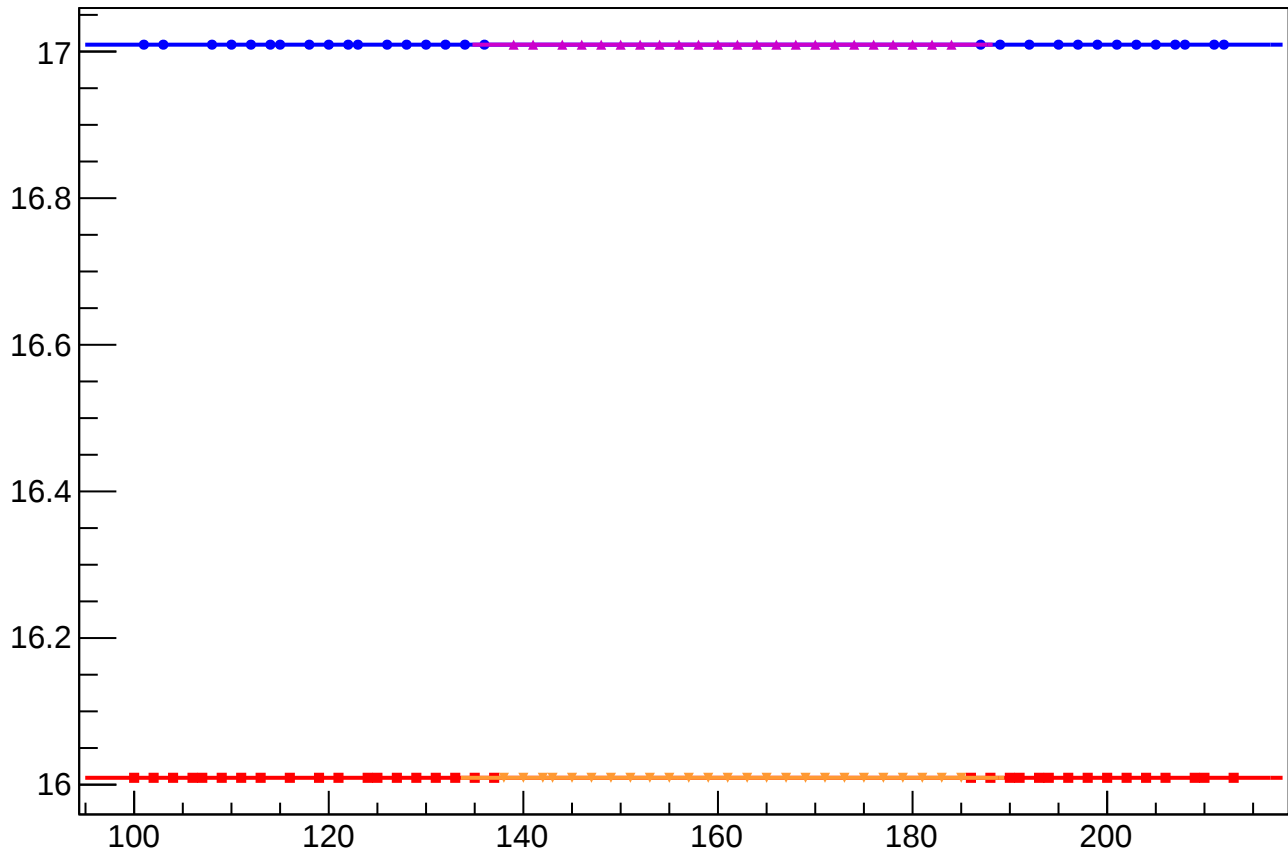
epics_IGL1I00DI24_24Ms_mean vs Slug



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 114490121772878903902208.0/29
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24
 Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 20535813240298827063230464.0/33
 Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

+ sign 16.533 $\pm$ 0.000 χ^2 /NDF: 8423765791226030
 All: 16.524 $\pm$ 0.000 χ^2 /NDF: 1686216145832
 - sign 16.515 $\pm$ 0.000 χ^2 /NDF: 8432725983180376

epics_IGL1I00OD16_16s_mean vs Slug



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114490121814305155317760.0/29

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 302644.9/33

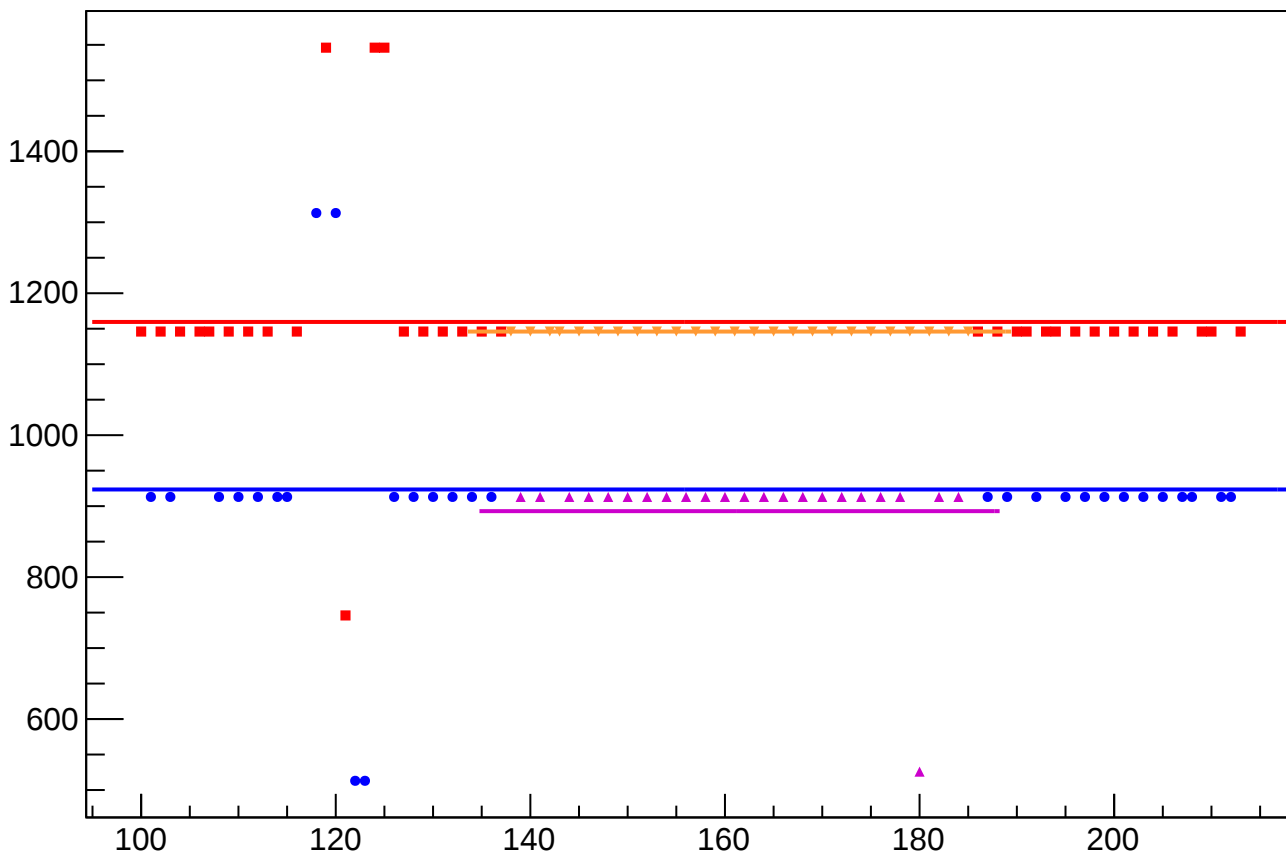
Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

+ sign 16.470 $\pm$ 0.000 χ^2 /NDF: 8669063468503226

All: 16.489 $\pm$ 0.000 χ^2 /NDF: 1748533744526

- sign 16.507 $\pm$ 0.000 χ^2 /NDF: 8792308680449428

epics_RTPAPOSUCNTs_mean vs Slug



Right In: 923.482+/-0.000 χ^2/NDF : 21100971074406868262123773169405788160.0/29

Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24

Right Out: 1159.546+/-0.000 χ^2/NDF : 21755852214984316784798186999210049536.0/33

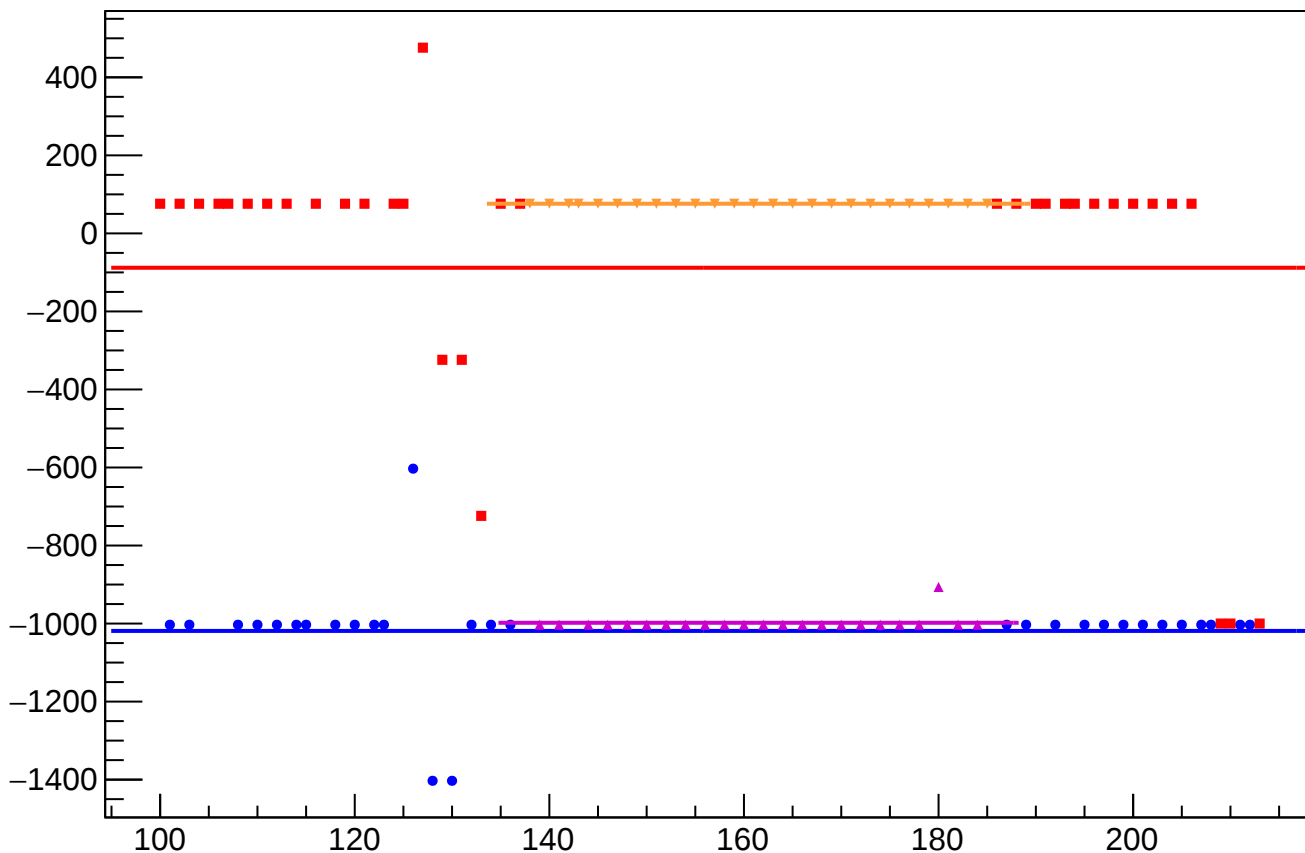
Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22

All: 1034.197+/-0.000 χ^2/NDF : 16367983785

+ sign 1043.064+/-0.000 χ^2/NDF : 64742023257439

- sign 1025.389+/-0.000 χ^2/NDF : 98382219911790

epics_RTPAPOSVCNTs_mean vs Slug



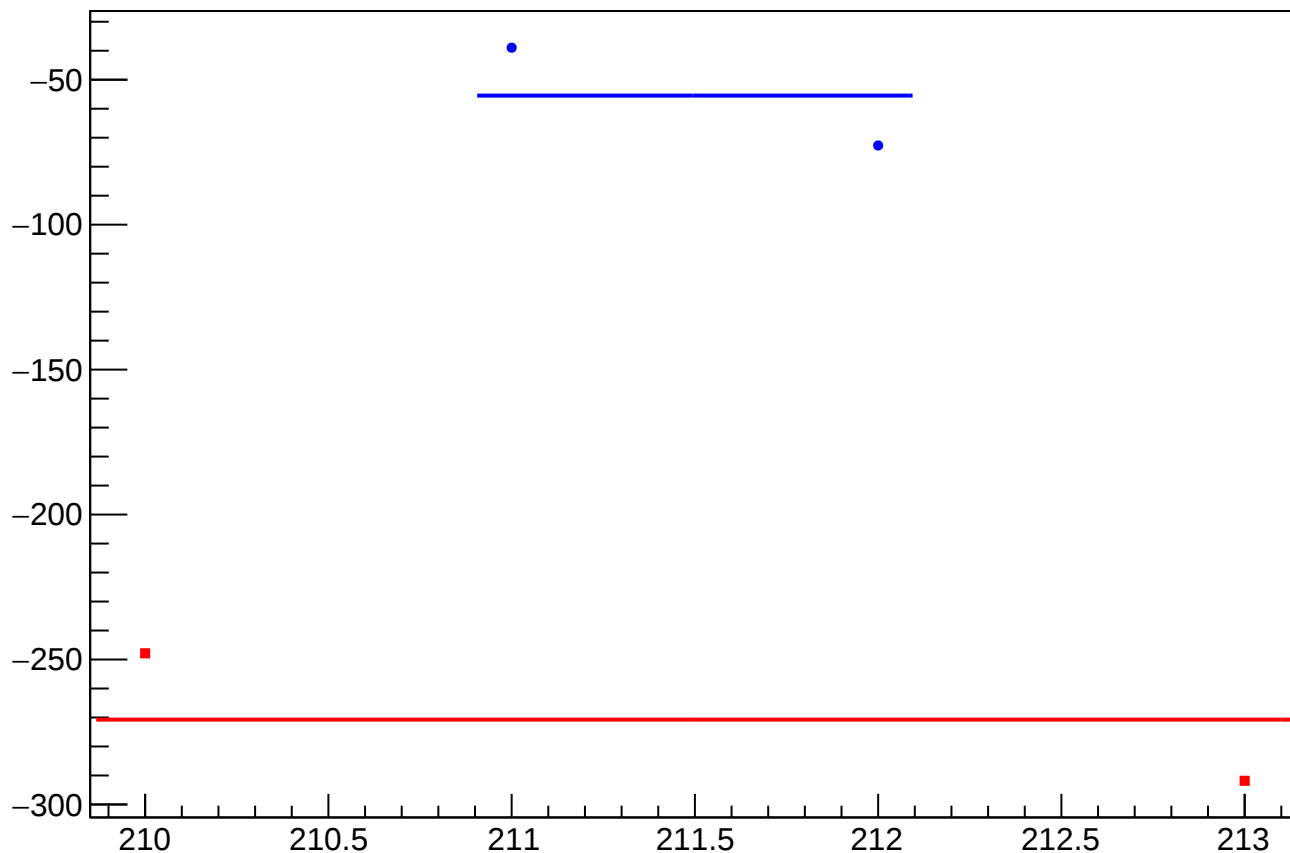
Right In: -1018.843+/-0.000 χ^2/NDF : 22787485764958494162868121116650504192.0/29

Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24 + sign -430.494+/-0.000 χ^2/NDF : 10792026243773

Right Out: -88.061+/-0.000 χ^2/NDF : 259809232483906796704877021850469662720.0/33 All: -488.418+/-0.000 χ^2/NDF : 21022535834

Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22 - sign -545.952+/-0.000 χ^2/NDF : 999342882544889

epics_RTPPITA1CNTs_mean vs Slug



Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1

+ sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

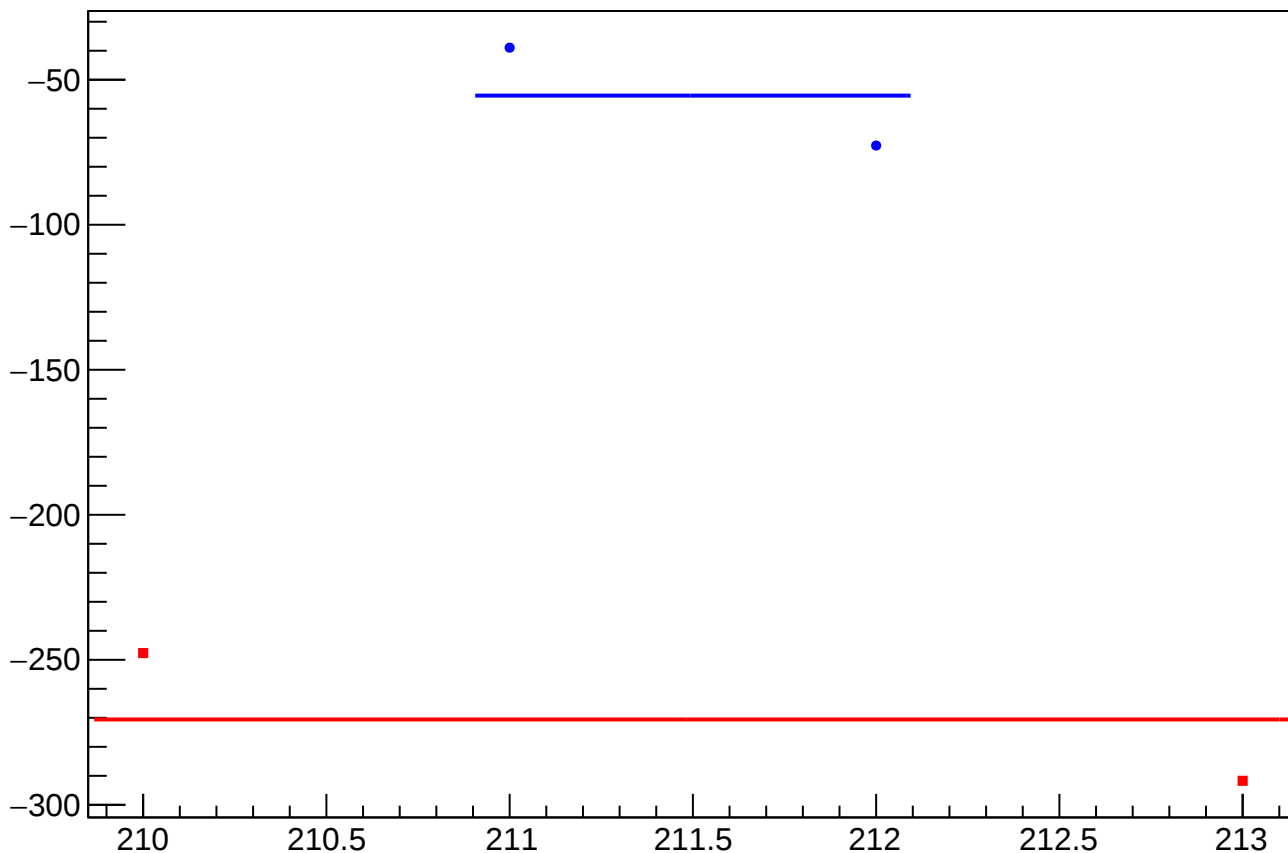
All: -162.746+/-0.000 χ^2/NDF : 36018285664

Right Out: -270.729+/-0.000 χ^2/NDF : 72391751130083692399004283901575168.0/1

- sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

epics_RTPPITA2CNTs_mean vs Slug



Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1

+ sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -162.669+/-0.000 χ^2/NDF : 35970576006

Right Out: -270.574+/-0.000 χ^2/NDF : 72629179805941194116968620035670016.0/1

- sign 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0