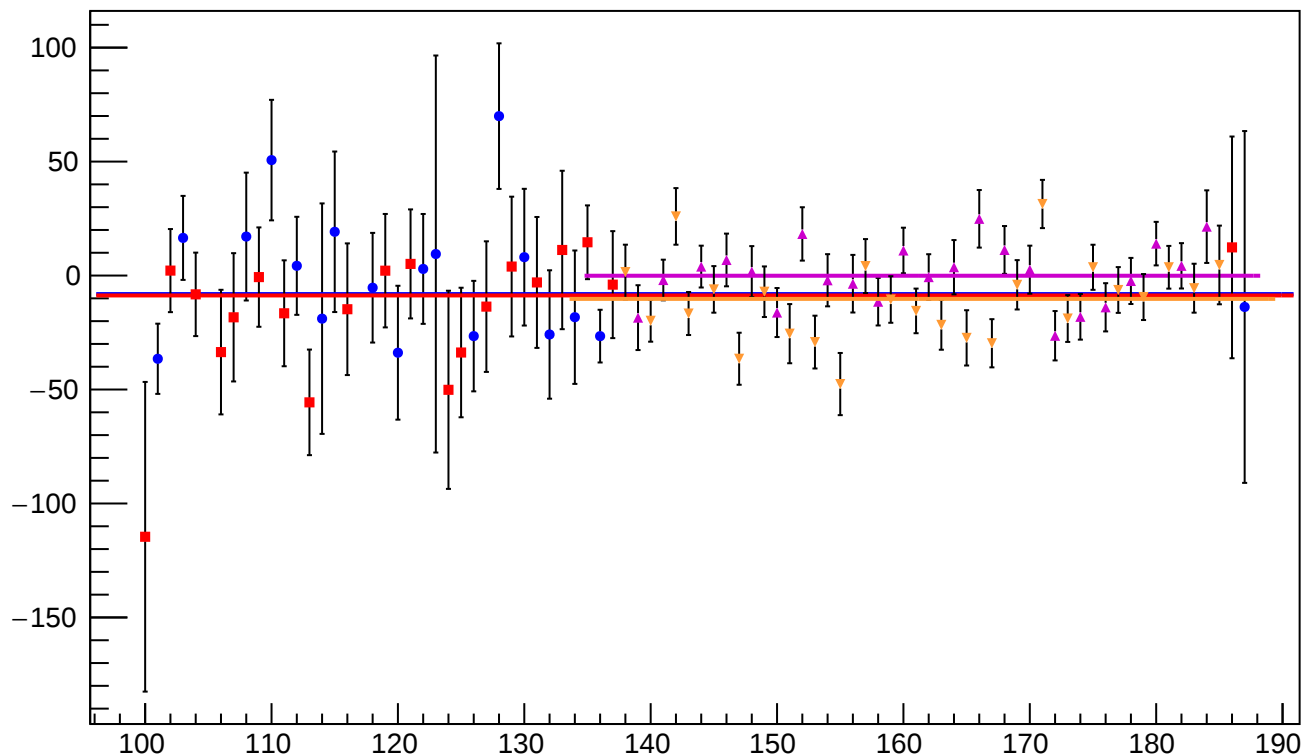


diff_bpm4aX_mean vs Slug



Right In: -8.127 ± 5.605

χ^2/NDF : 22.9/17

Left Out: -10.238 ± 2.170

χ^2/NDF : 58.1/24

Right Out: -8.727 ± 5.649

χ^2/NDF : 13.2/19

Left In: -0.080 ± 2.251

χ^2/NDF : 29.9/22

+ sign -9.963 ± 2.024

χ^2/NDF : 81.1/42

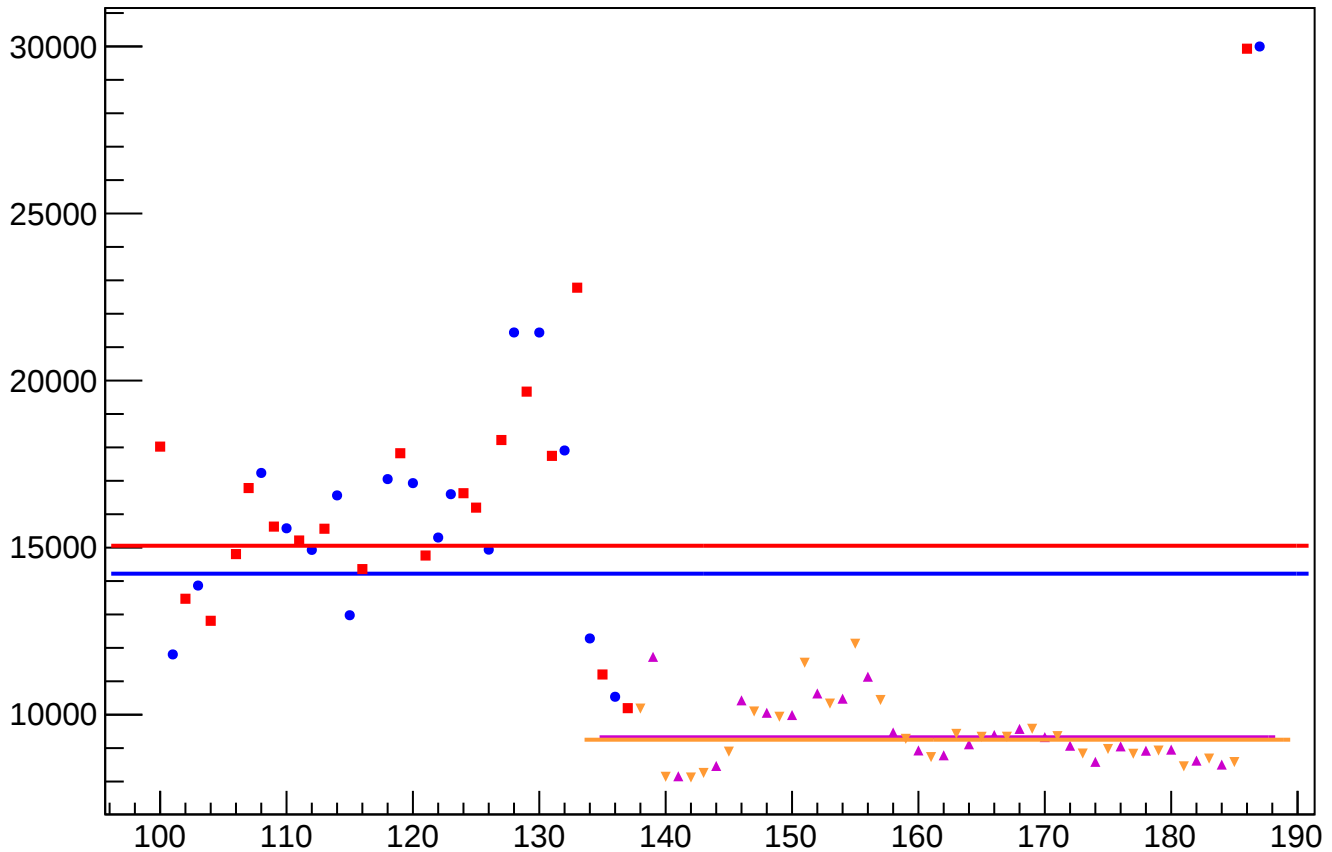
All: -5.755 ± 1.454

χ^2/NDF : 135.1/85

- sign -1.265 ± 2.091

χ^2/NDF : 45.1/42

diff_bpm4aX_rms vs Slug



Right In: 14220.685+/-3.963 χ^2/NDF : 687071.8/17

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

Right Out: 15056.763+/-3.994 χ^2/NDF : 663489.3/19

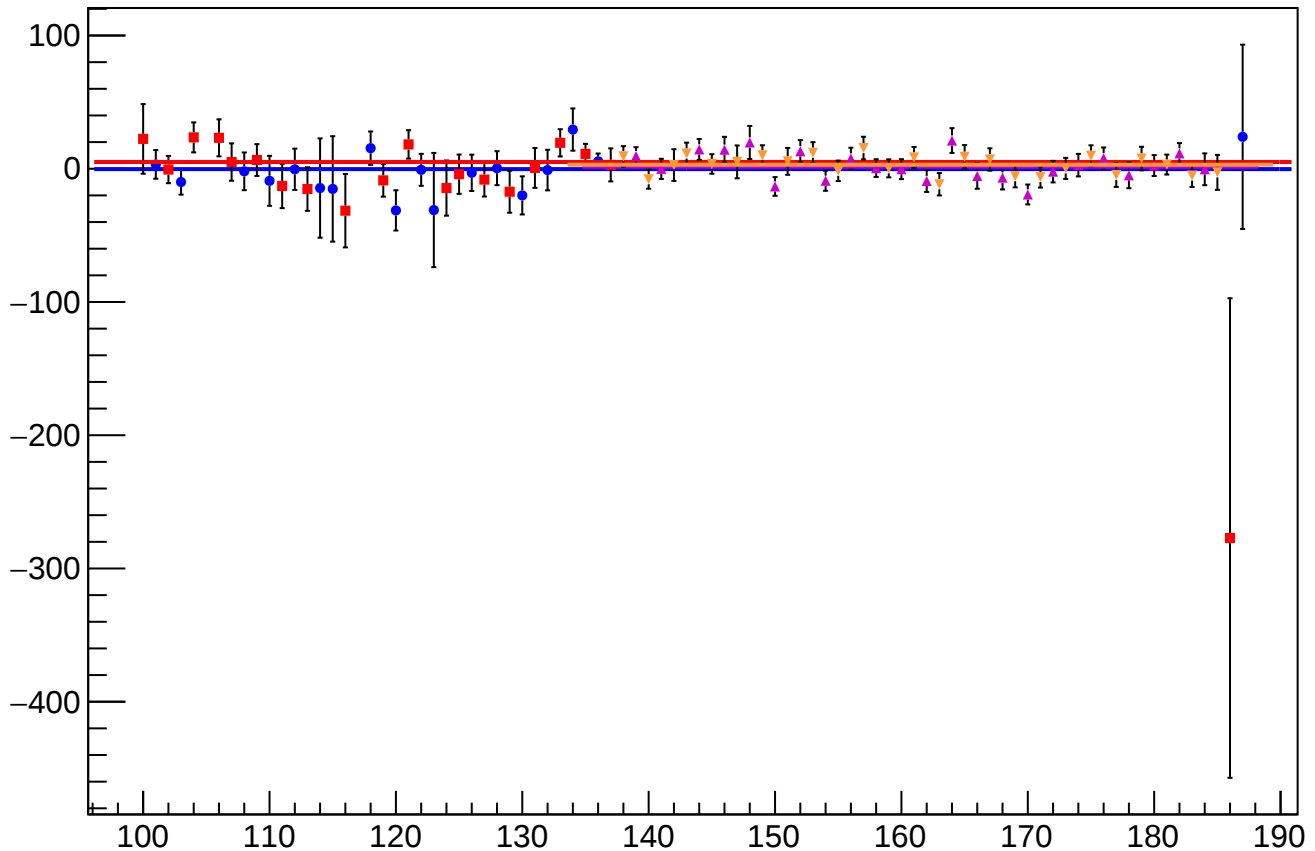
Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

+ sign 9899.699+/-1.431 χ^2/NDF : 2386413.1/42

All: 10001.089+/-1.028 χ^2/NDF : 5113717.1/8

- sign 10109.295+/-1.478 χ^2/NDF : 2716927.1/42

diff_bpm4aY_mean vs Slug



Right In: -0.267 ± 3.074 $\chi^2/\text{NDF}: 14.6/17$

Left Out: 3.027 ± 1.661 $\chi^2/\text{NDF}: 18.6/24$

Right Out: 5.052 ± 2.942 $\chi^2/\text{NDF}: 22.0/19$

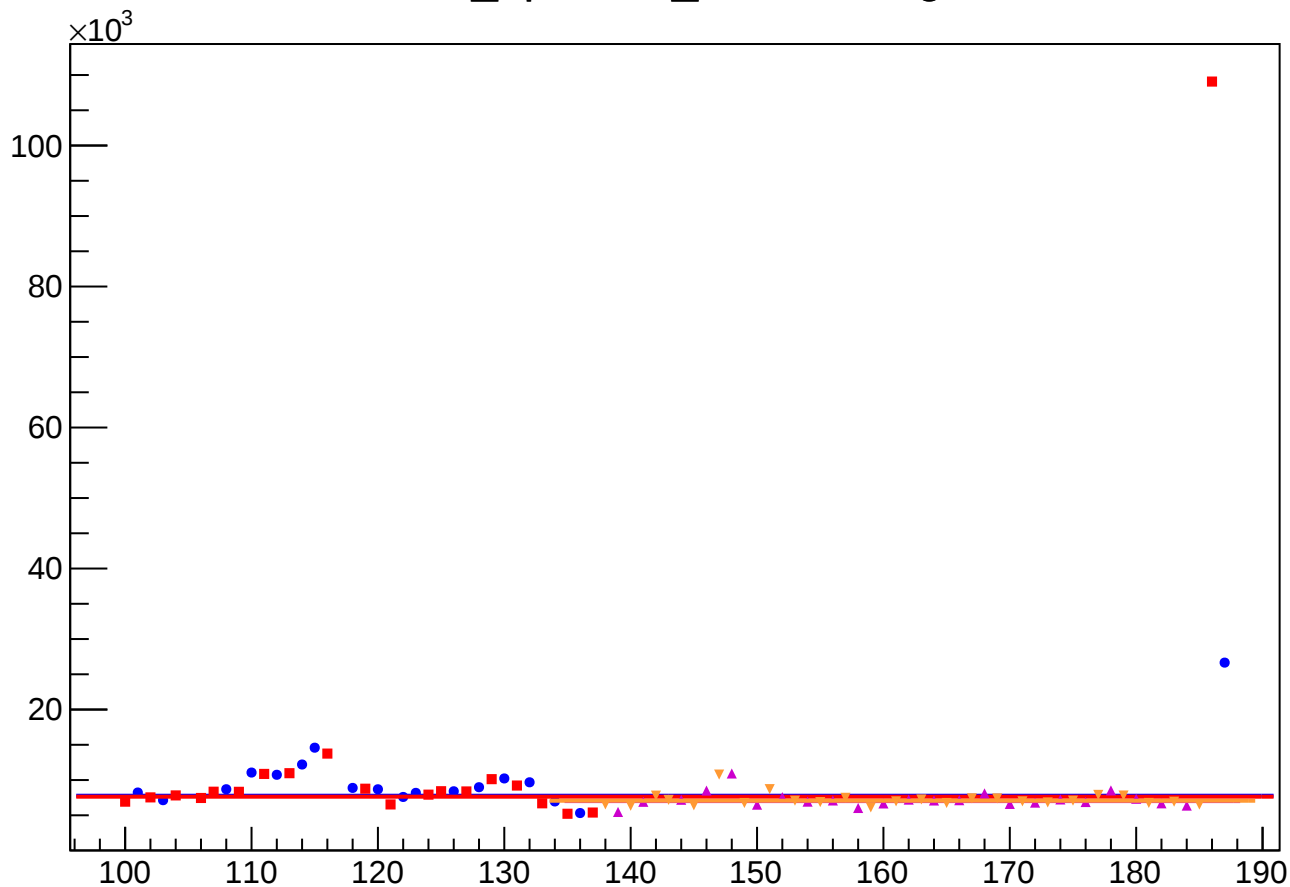
Left In: 1.588 ± 1.703 $\chi^2/\text{NDF}: 35.5/22$

+ sign 2.283 ± 1.461 $\chi^2/\text{NDF}: 34.0/42$

All: 2.369 ± 1.037 $\chi^2/\text{NDF}: 92.6/85$

- sign 2.457 ± 1.474 $\chi^2/\text{NDF}: 58.5/42$

diff_bpm4aY_rms vs Slug



Right In: 7776.297 ± 2.173 $\chi^2/\text{NDF}: 890288.6/17$

Left Out: 7064.457 ± 1.174 $\chi^2/\text{NDF}: 386814.9/24$

Right Out: 7638.501 ± 2.080 $\chi^2/\text{NDF}: 1318822.6/19$

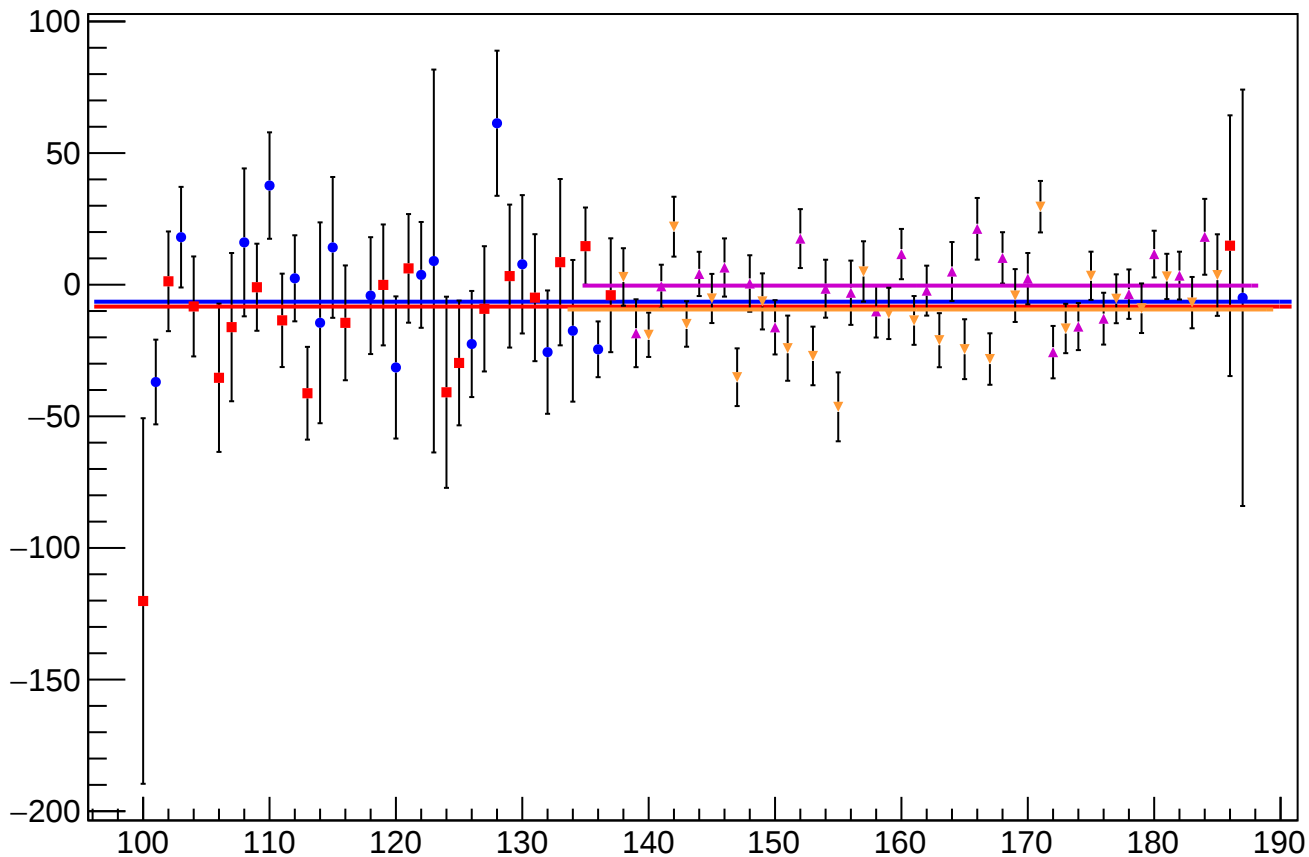
Left In: 7014.572 ± 1.204 $\chi^2/\text{NDF}: 525313.7/22$

+ sign 7225.277 ± 1.033 $\chi^2/\text{NDF}: 1360133.3/42$

All: 7198.437 ± 0.734 $\chi^2/\text{NDF}: 3273026.9/85$

- sign 7171.133 ± 1.042 $\chi^2/\text{NDF}: 1911531.9/42$

diff_bpm4eX_mean vs Slug



Right In: -6.457 ± 5.018 χ^2/NDF : 23.5/17

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

Right Out: -8.311 ± 4.983 χ^2/NDF : 13.1/19

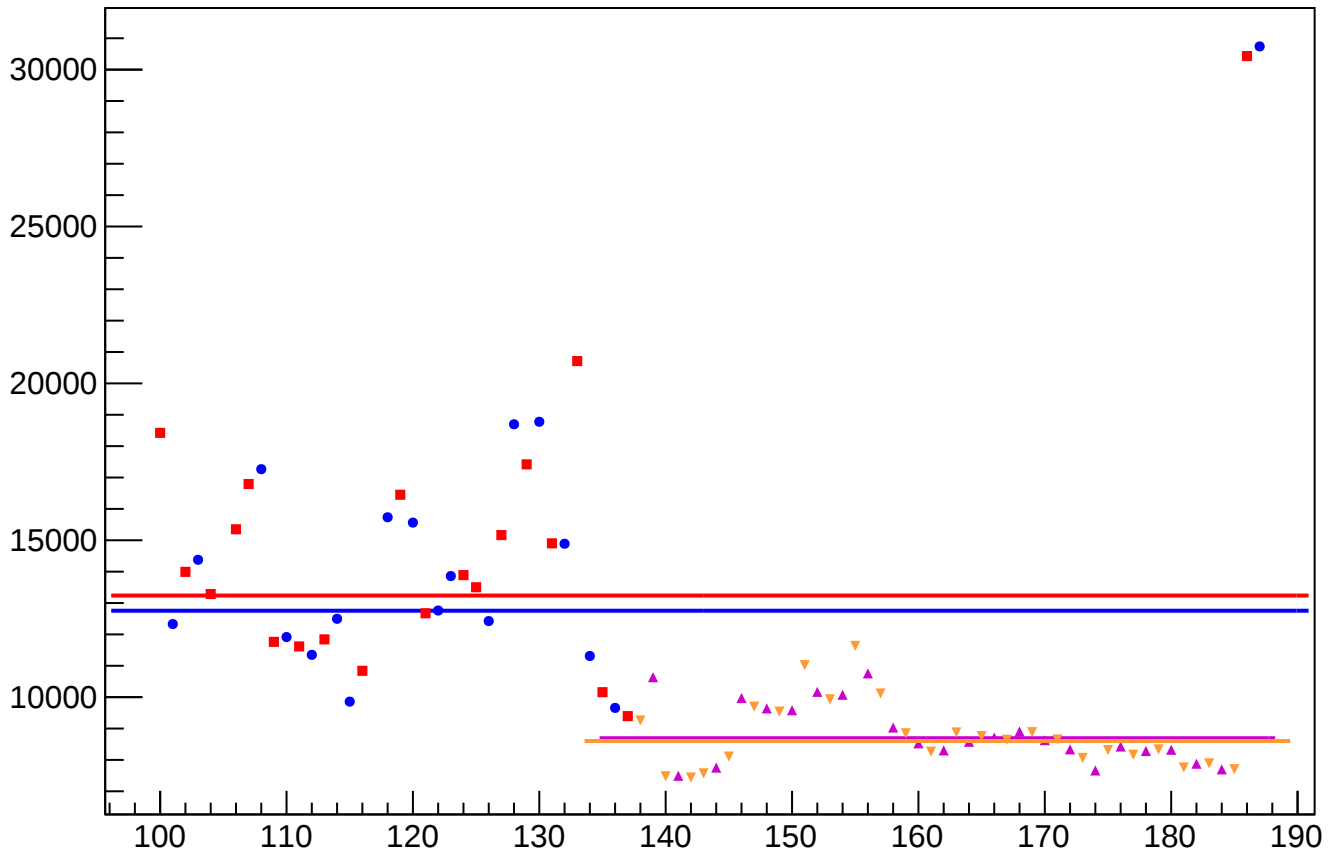
Left In: -0.344 ± 2.100 χ^2/NDF : 29.9/22

+ sign -8.999 ± 1.875 χ^2/NDF : 82.5/42

All: -5.391 ± 1.347 χ^2/NDF : 135.4/85

- sign -1.546 ± 1.936 χ^2/NDF : 45.2/42

diff_bpm4eX_rms vs Slug



Right In: 12754.564 $\pm$ 3.549 χ^2 /NDF: 662469.7/17

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

Right Out: 13238.554 $\pm$ 3.524 χ^2 /NDF: 742770.6/19

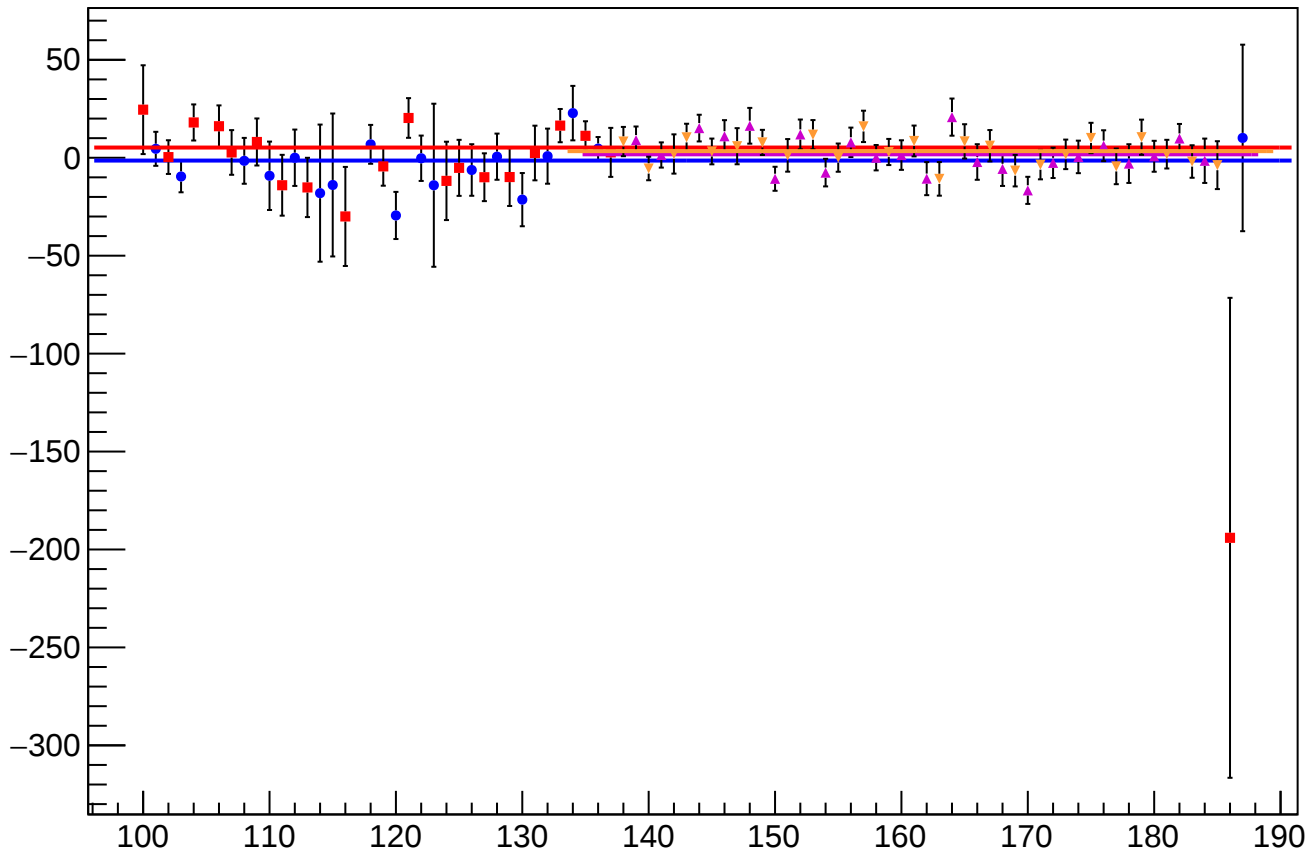
Left In: 8691.203 $\pm$ 1.485 χ^2 /NDF:365254.6/22

+ sign 9181.678 $\pm$ 1.326 χ^2 /NDF: 2279464.9/42

All: 9276.332 $\pm$ 0.952 χ^2 /NDF: 4812153.7/85

- sign 9377.235 $\pm$ 1.369 χ^2 /NDF: 2522155.1/42

diff_bpm4eY_mean vs Slug



Right In: -1.437 ± 2.790 χ^2/NDF : 14.8/17

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

Right Out: 5.214 ± 2.644 χ^2/NDF : 21.5/19

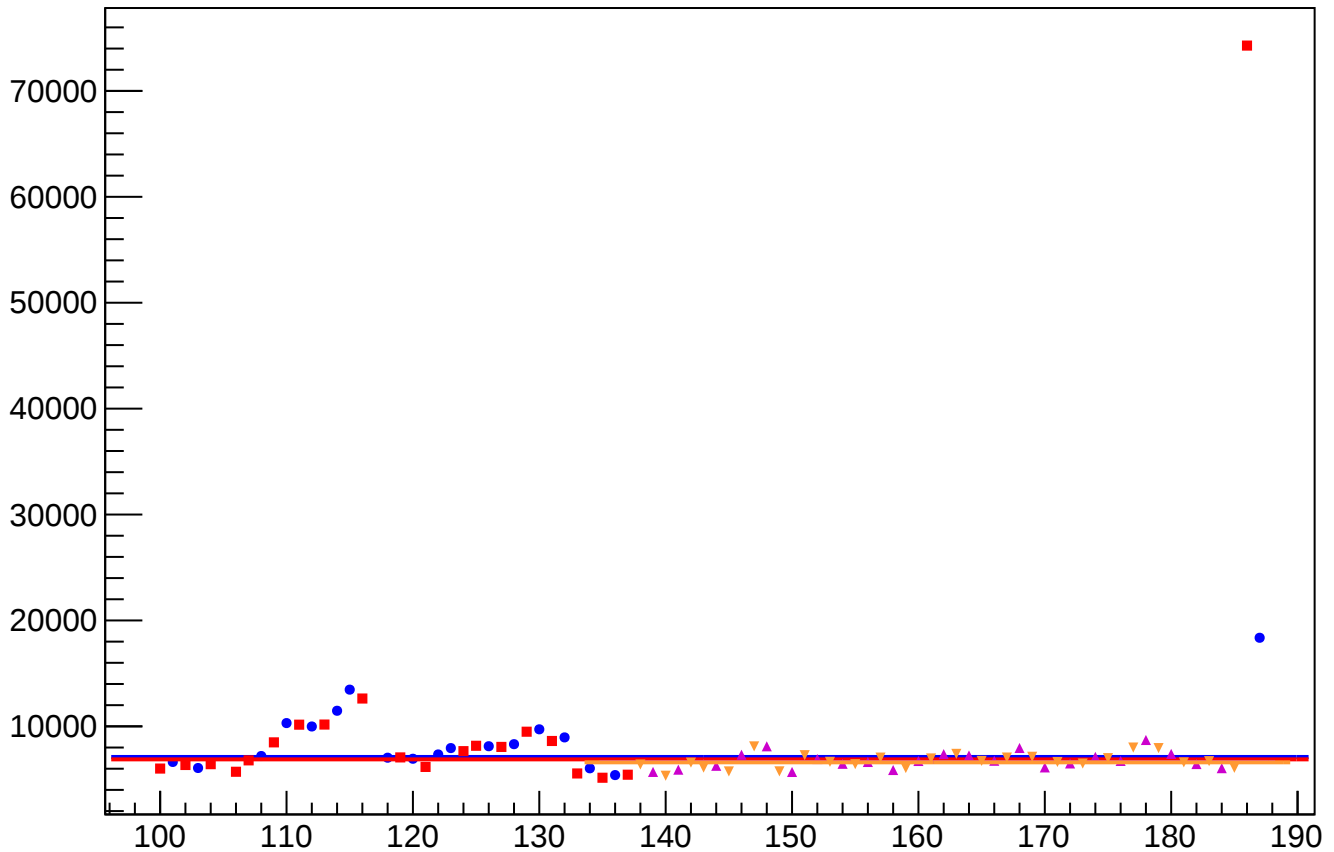
Left In: 1.756 ± 1.607 χ^2/NDF : 33.5/22

+ sign 2.238 ± 1.356 χ^2/NDF : 34.2/42

All: 2.460 ± 0.965 χ^2/NDF : 90.6/85

- sign 2.689 ± 1.373 χ^2/NDF : 56.3/42

diff_bpm4eY_rms vs Slug



Right In: 7109.003 $\pm$ 1.973 χ^2 /NDF: 713002.0/17

Left Out: 6603.953 $\pm$ 1.097 χ^2 /NDF: 395247.5/24

Right Out: 6882.992 $\pm$ 1.870 χ^2 /NDF: 1294031.7/19

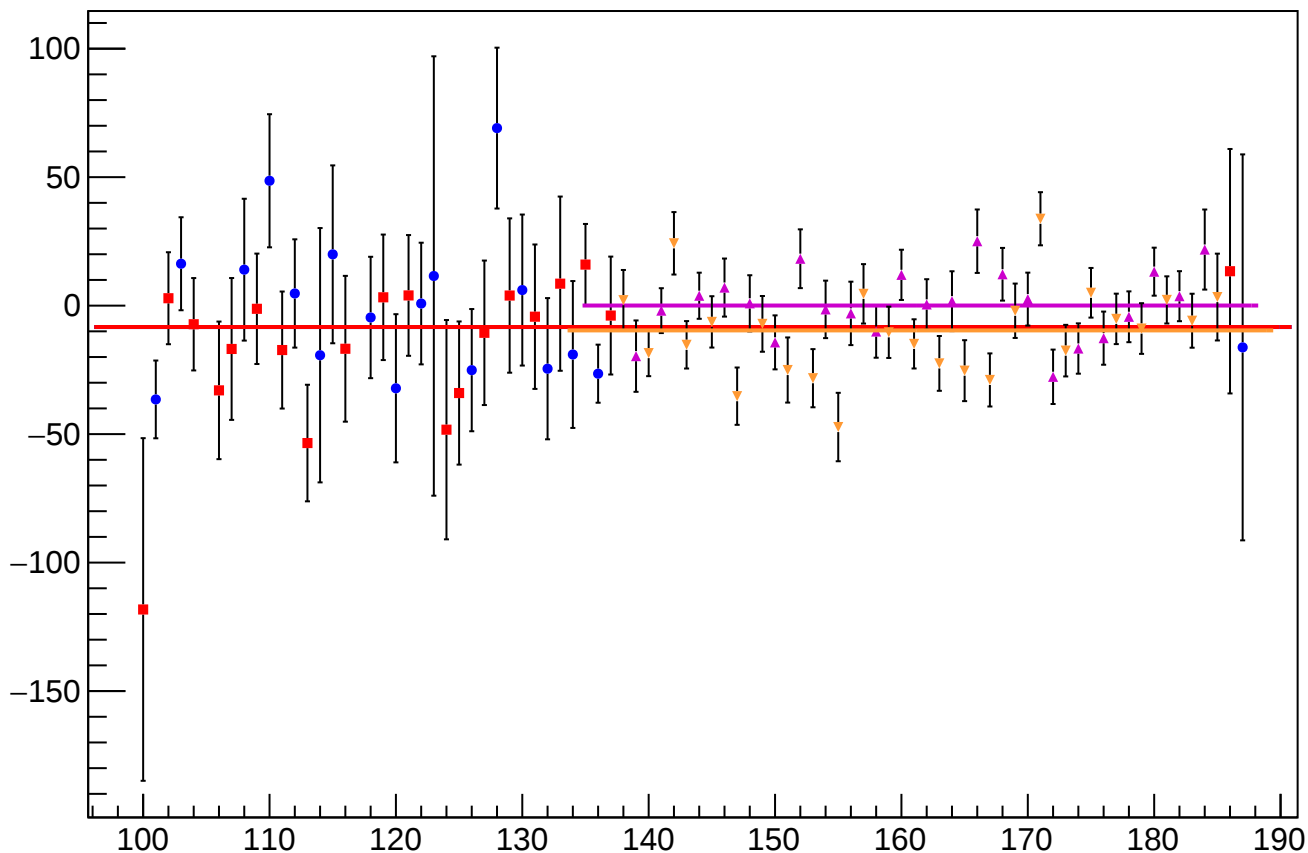
Left In: 6637.155 $\pm$ 1.136 χ^2 /NDF: 415547.5/22

+ sign 6723.255 $\pm$ 0.959 χ^2 /NDF: 1158291.7/42

All: 6713.487 $\pm$ 0.682 χ^2 /NDF: 2880707.3/85

- sign 6703.473 $\pm$ 0.971 χ^2 /NDF: 1722205.5/42

diff_bpm4acX_mean vs Slug



Right In: -8.334 ± 5.493 $\chi^2/\text{NDF}: 22.7/17$

Left Out: -9.640 ± 2.122 $\chi^2/\text{NDF}: 59.9/24$

Right Out: -8.316 ± 5.538 $\chi^2/\text{NDF}: 13.6/19$

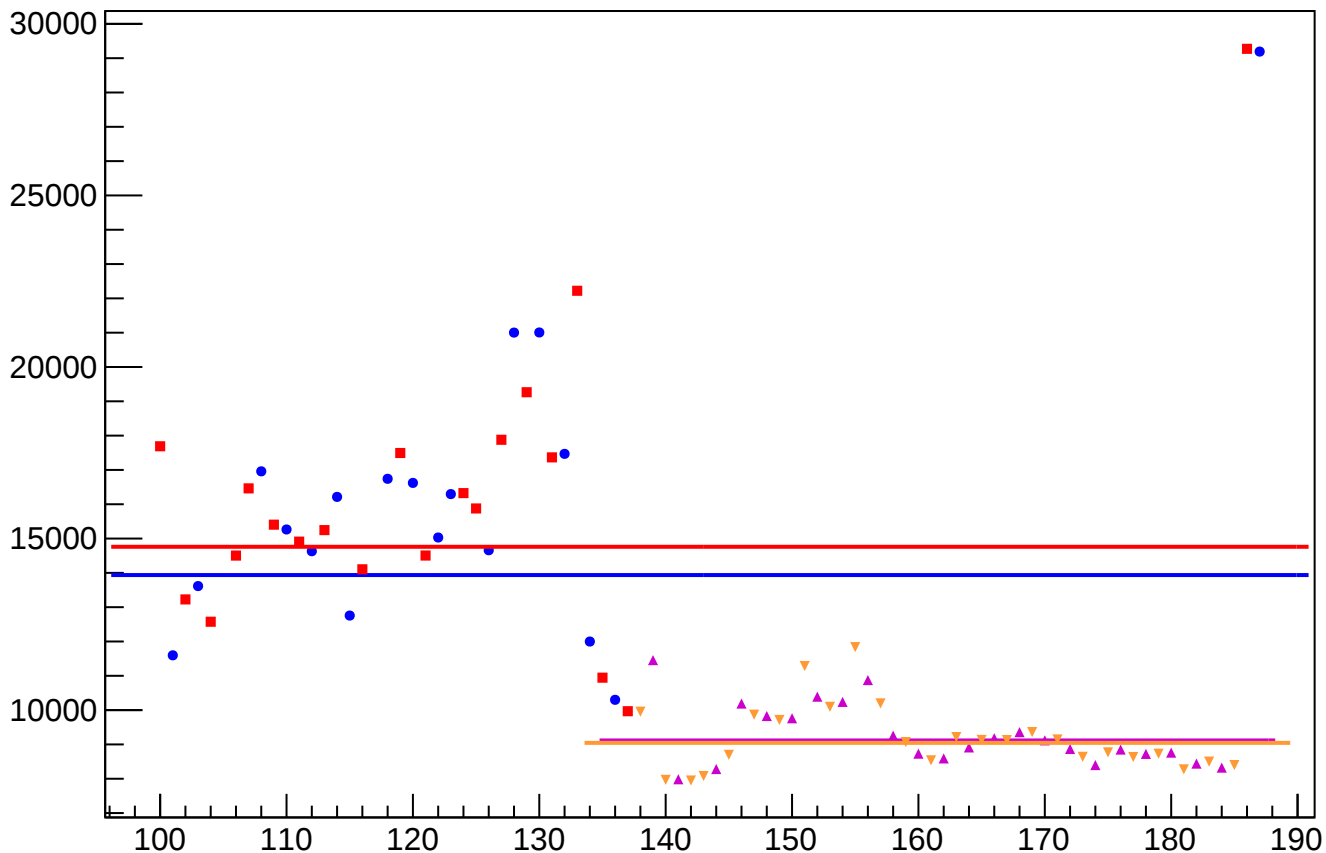
Left In: 0.042 ± 2.200 $\chi^2/\text{NDF}: 30.8/22$

+ sign -9.470 ± 1.979 $\chi^2/\text{NDF}: 82.7/42$

All: -5.420 ± 1.422 $\chi^2/\text{NDF}: 137.7/85$

- sign -1.097 ± 2.045 $\chi^2/\text{NDF}: 46.4/42$

diff_bpm4acX_rms vs Slug



Right In: 13936.549+/-3.884 χ^2/NDF : 689170.9/17

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

Right Out: 14760.410+/-3.916 χ^2/NDF : 664468.3/19

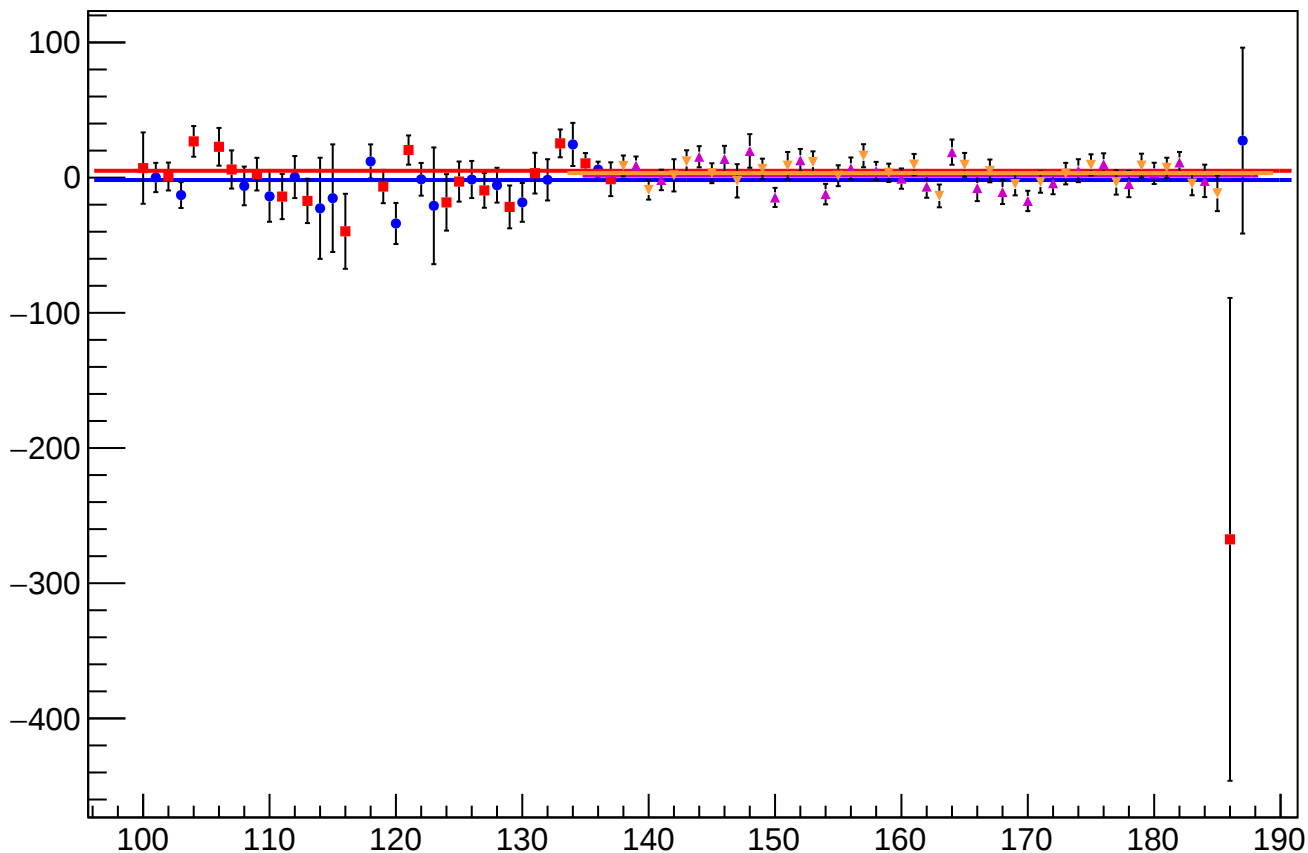
Left In: 9115.817+/-1.556 χ^2/NDF : 272471.8/22

+ sign 9680.788+/-1.400 χ^2/NDF : 2397213.3/42

All: 9779.727+/-1.006 χ^2/NDF : 5139094.8/85

- sign 9885.318+/-1.446 χ^2/NDF : 2731550.0/42

diff_bpm4acY_mean vs Slug



Right In: -1.768 $\pm$ 3.096 χ^2 /NDF: 14.2/17

Left Out: 3.387 $\pm$ 1.668 χ^2 /NDF:19.4/24

Right Out: 5.080 $\pm$ 2.964 χ^2 /NDF: 26.8/19

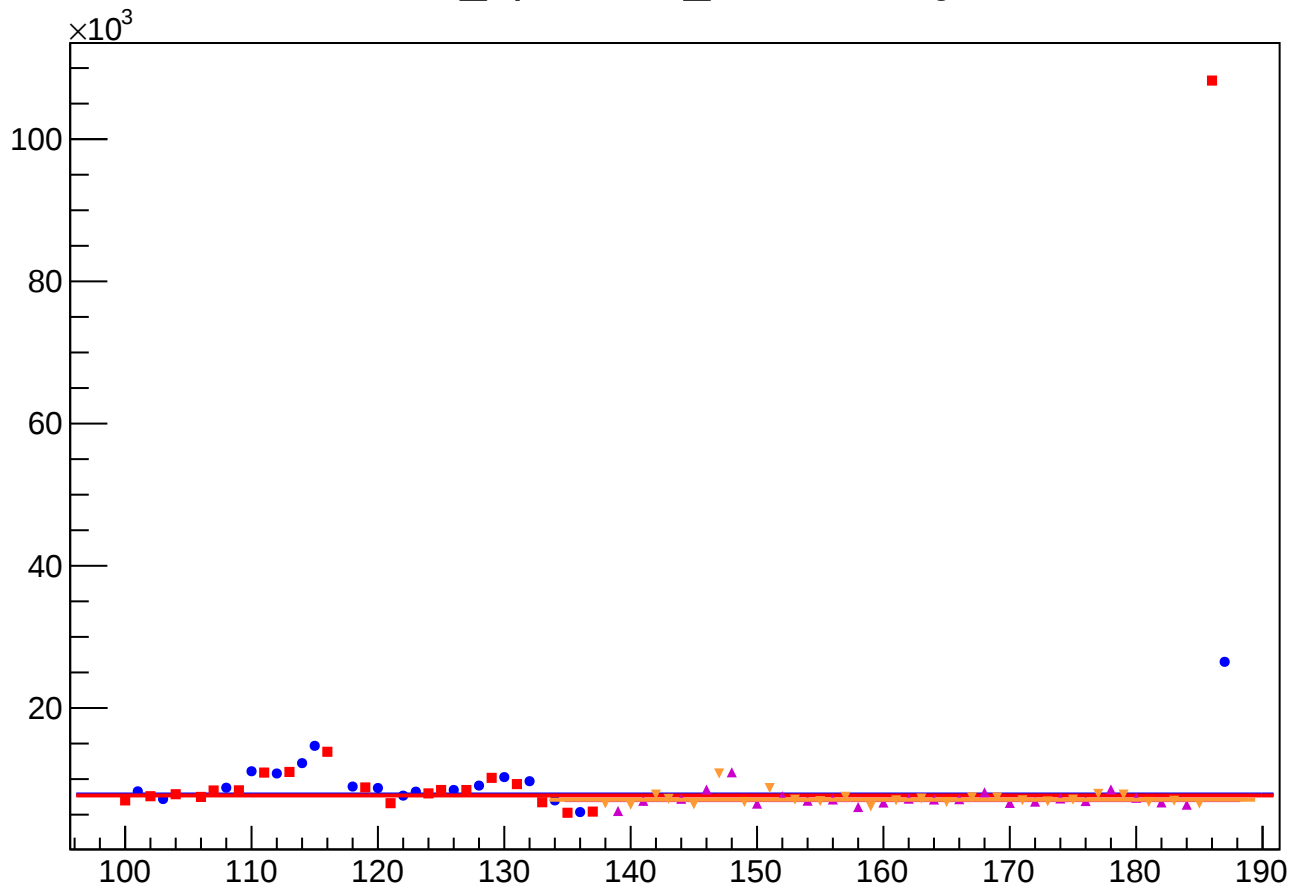
Left In: 1.479 $\pm$ 1.710 χ^2 /NDF:36.7/22

+ sign 2.228 $\pm$ 1.468 χ^2 /NDF: 35.8/42

All: 2.302 $\pm$ 1.043 χ^2 /NDF: 100.5/85

- sign 2.379 $\pm$ 1.481 χ^2 /NDF: 64.7/42

diff_bpm4acY_rms vs Slug



Right In: 7835.922 ± 2.190 $\chi^2/\text{NDF}: 883959.1/17$

Left Out: 7096.350 ± 1.179 $\chi^2/\text{NDF}: 381942.1/24$

Right Out: 7700.137 ± 2.096 $\chi^2/\text{NDF}: 1310729.9/19$

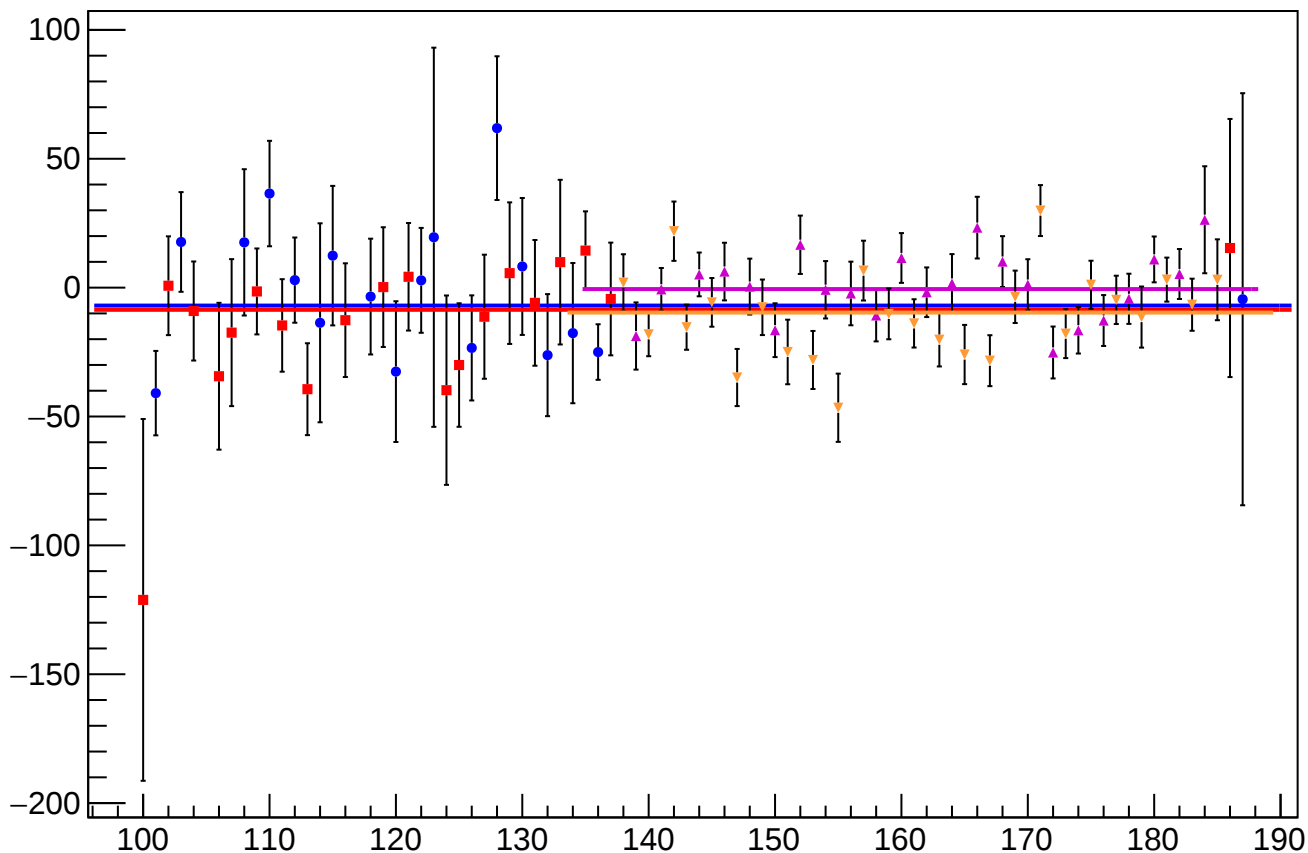
Left In: 7047.269 ± 1.209 $\chi^2/\text{NDF}: 517433.5/22$

+ sign 7262.663 ± 1.038 $\chi^2/\text{NDF}: 1354336.8/42$

All: 7236.715 ± 0.737 $\chi^2/\text{NDF}: 3256544.8/85$

- sign 7210.307 ± 1.047 $\chi^2/\text{NDF}: 1900947.8/42$

diff_bpm4ecX_mean vs Slug



Right In: -6.965 ± 5.086 χ^2/NDF : 24.0/17

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

Right Out: -8.602 ± 5.054 χ^2/NDF : 12.3/19

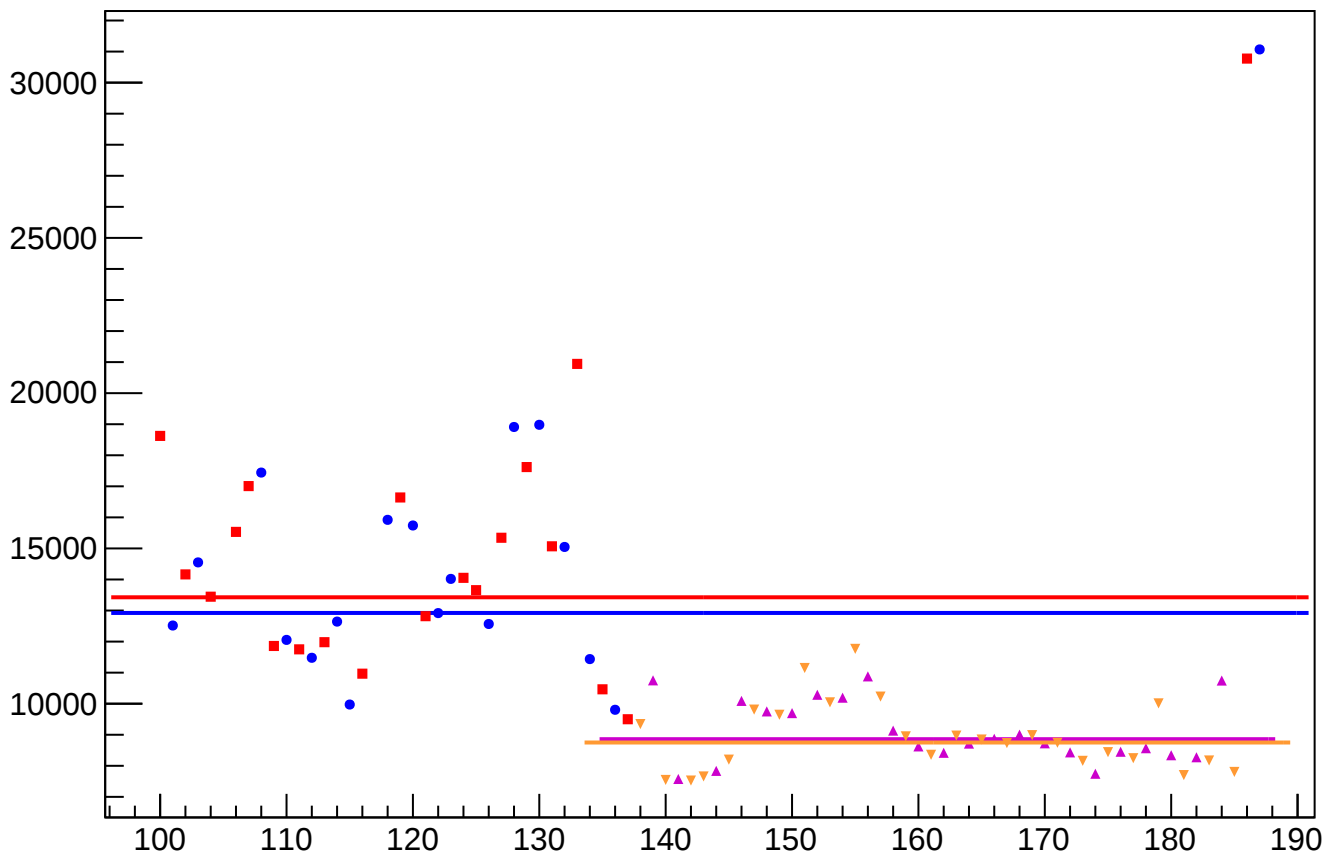
Left In: -0.564 ± 2.144 χ^2/NDF : 29.7/22

+ sign -9.289 ± 1.910 χ^2/NDF : 82.2/42

All: -5.662 ± 1.372 χ^2/NDF : 133.8/85

- sign -1.789 ± 1.973 χ^2/NDF : 44.1/42

diff_bpm4ecX_rms vs Slug



Right In: 12922.452+/-3.596 χ^2/NDF : 655686.7/17

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

Right Out: 13426.617+/-3.574 χ^2/NDF : 729665.5/19

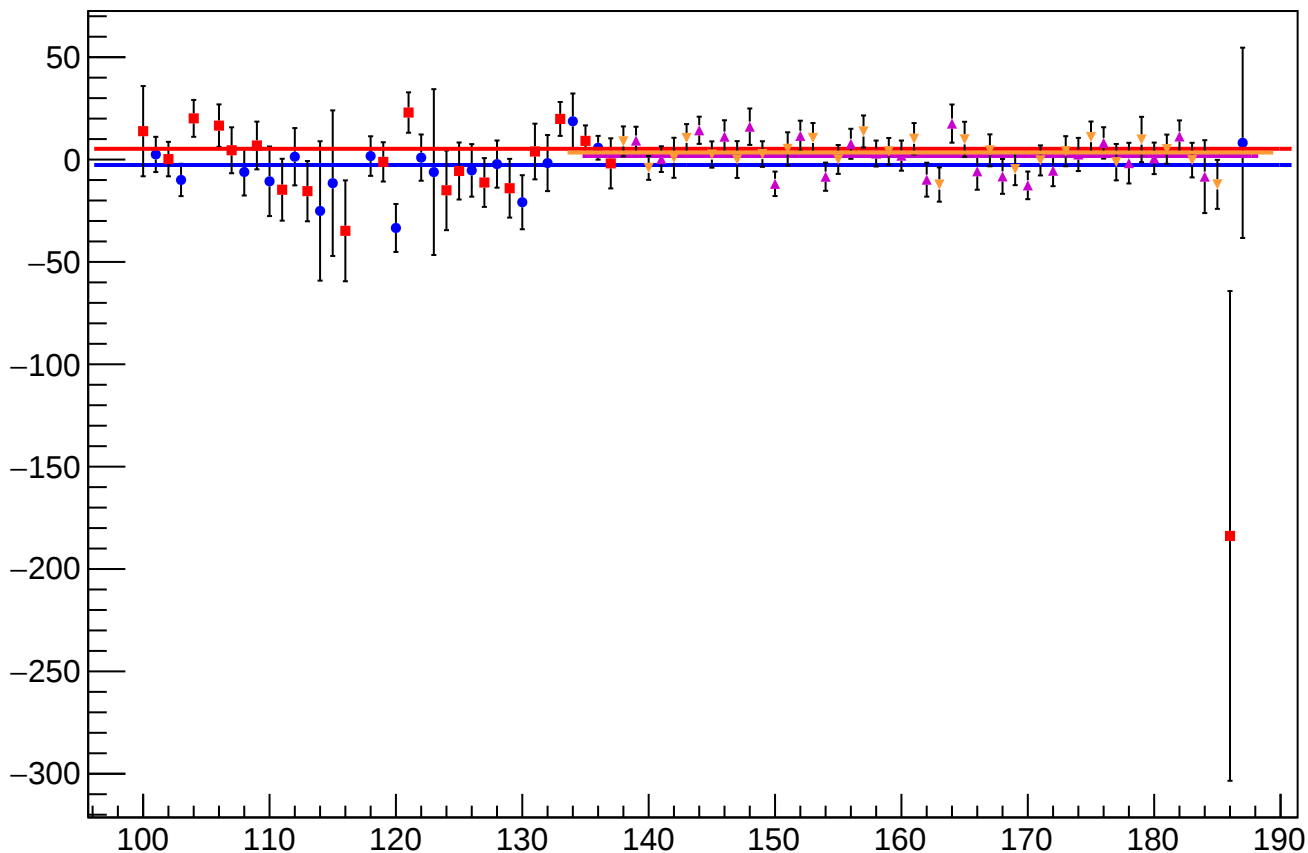
Left In: 8857.329+/-1.516 χ^2/NDF : 361778.8/22

+ sign 9338.766+/-1.350 χ^2/NDF : 2275707.8/42

All: 9442.859+/-0.970 χ^2/NDF : 4764903.6/85

- sign 9554.009+/-1.395 χ^2/NDF : 2476910.2/42

diff_bpm4ecY_mean vs Slug



Right In: -2.656 ± 2.732 χ^2/NDF : 15.9/17

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

Right Out: 5.250 ± 2.592 χ^2/NDF : 26.1/19

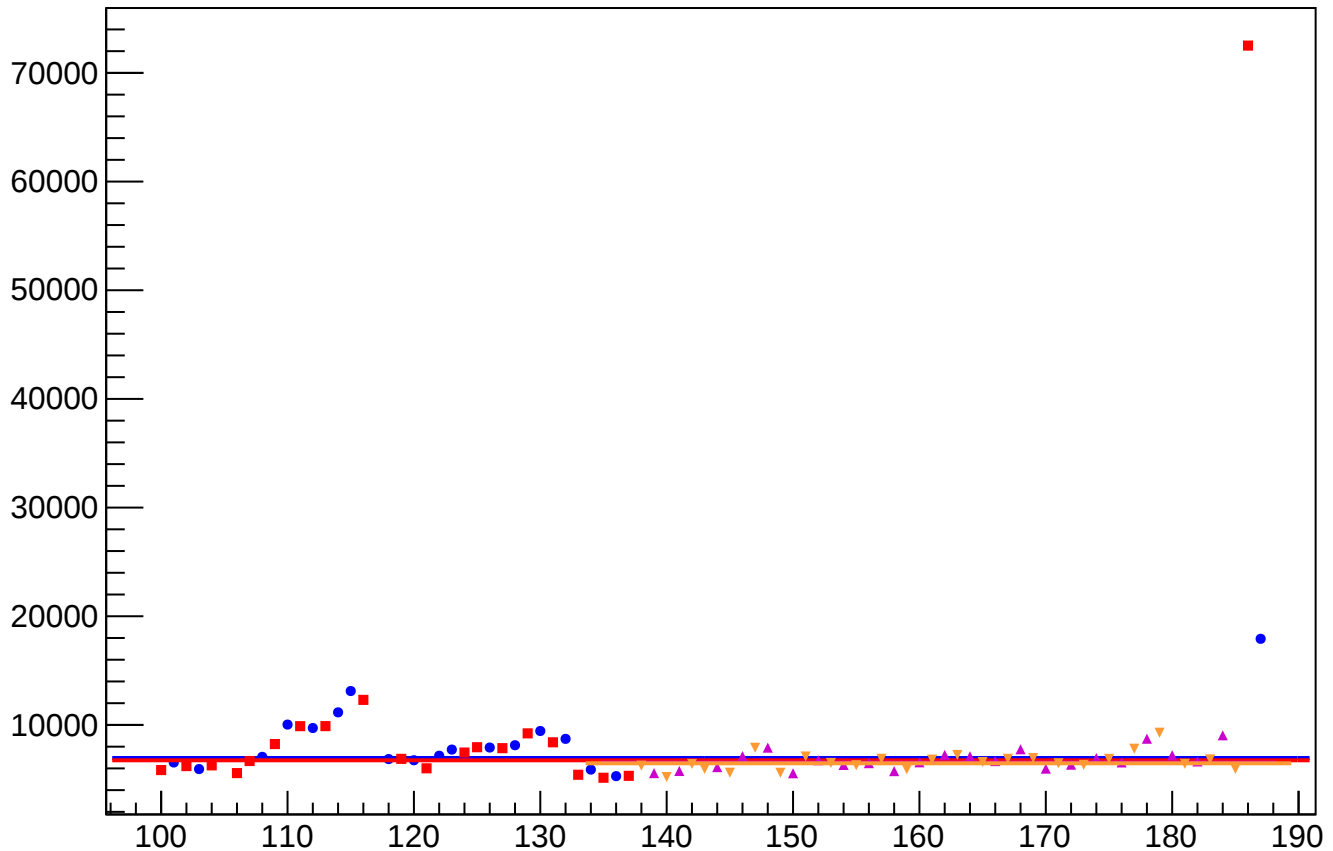
Left In: 1.734 ± 1.586 χ^2/NDF : 33.6/22

+ sign 1.985 ± 1.332 χ^2/NDF : 35.9/42

All: 2.333 ± 0.949 χ^2/NDF : 97.1/85

- sign 2.692 ± 1.353 χ^2/NDF : 61.0/42

diff_bpm4ecY_rms vs Slug



Right In: 6955.717 $\pm$ 1.932 χ^2 /NDF: 698936.5/17

Left Out: 6468.872 $\pm$ 1.079 χ^2 /NDF: 487187.3/24

Right Out: 6745.982 $\pm$ 1.833 χ^2 /NDF: 1265007.3/19

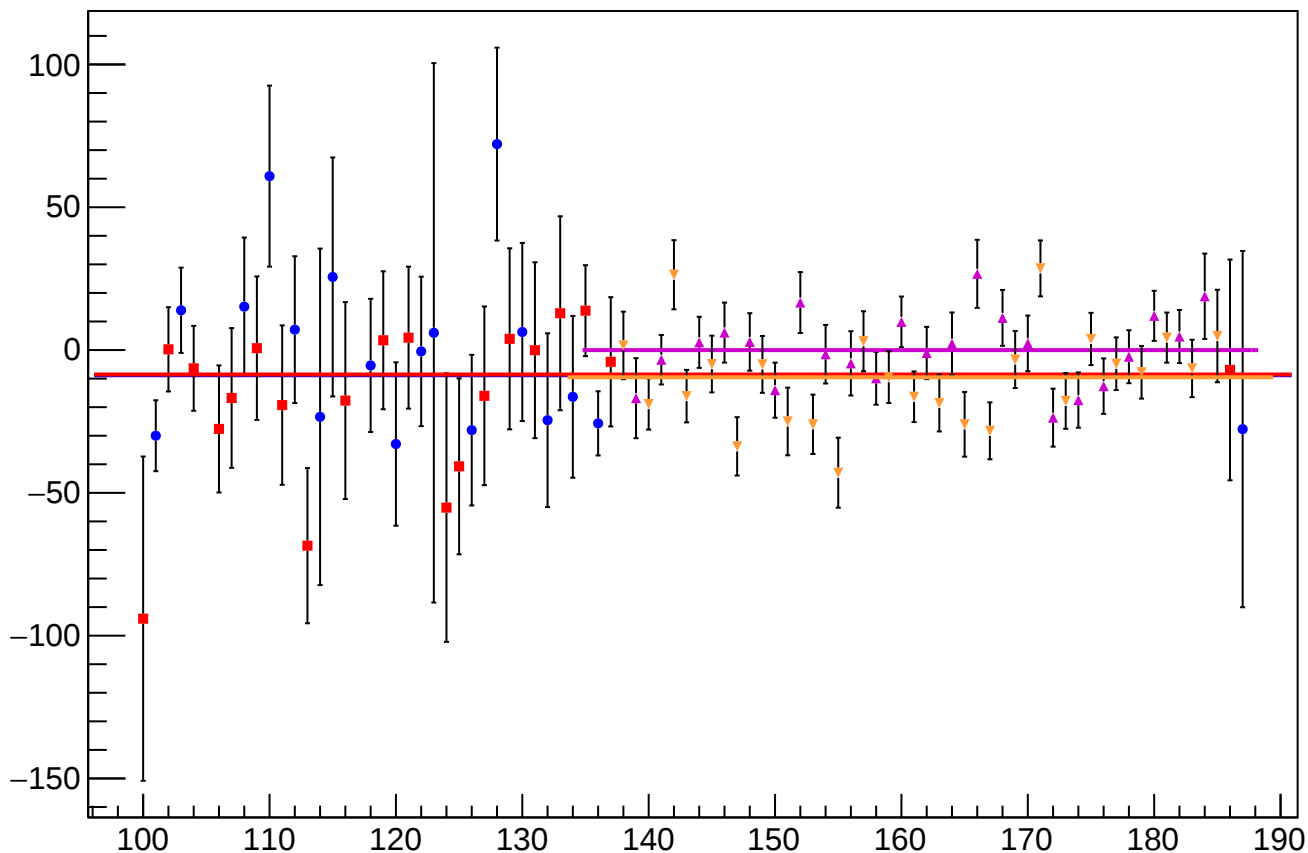
Left In: 6530.954 $\pm$ 1.121 χ^2 /NDF: 464668.6/22

+ sign 6584.626 $\pm$ 0.942 χ^2 /NDF: 1234546.2/42

All: 6587.040 $\pm$ 0.671 χ^2 /NDF: 2974252.2/85

- sign 6589.530 $\pm$ 0.956 χ^2 /NDF: 1739692.7/42

diff_bpm1X_mean vs Slug



Right In: -8.827 ± 5.381 χ^2/NDF : 22.2/17

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

Right Out: -8.553 ± 5.461 χ^2/NDF : 14.0/19

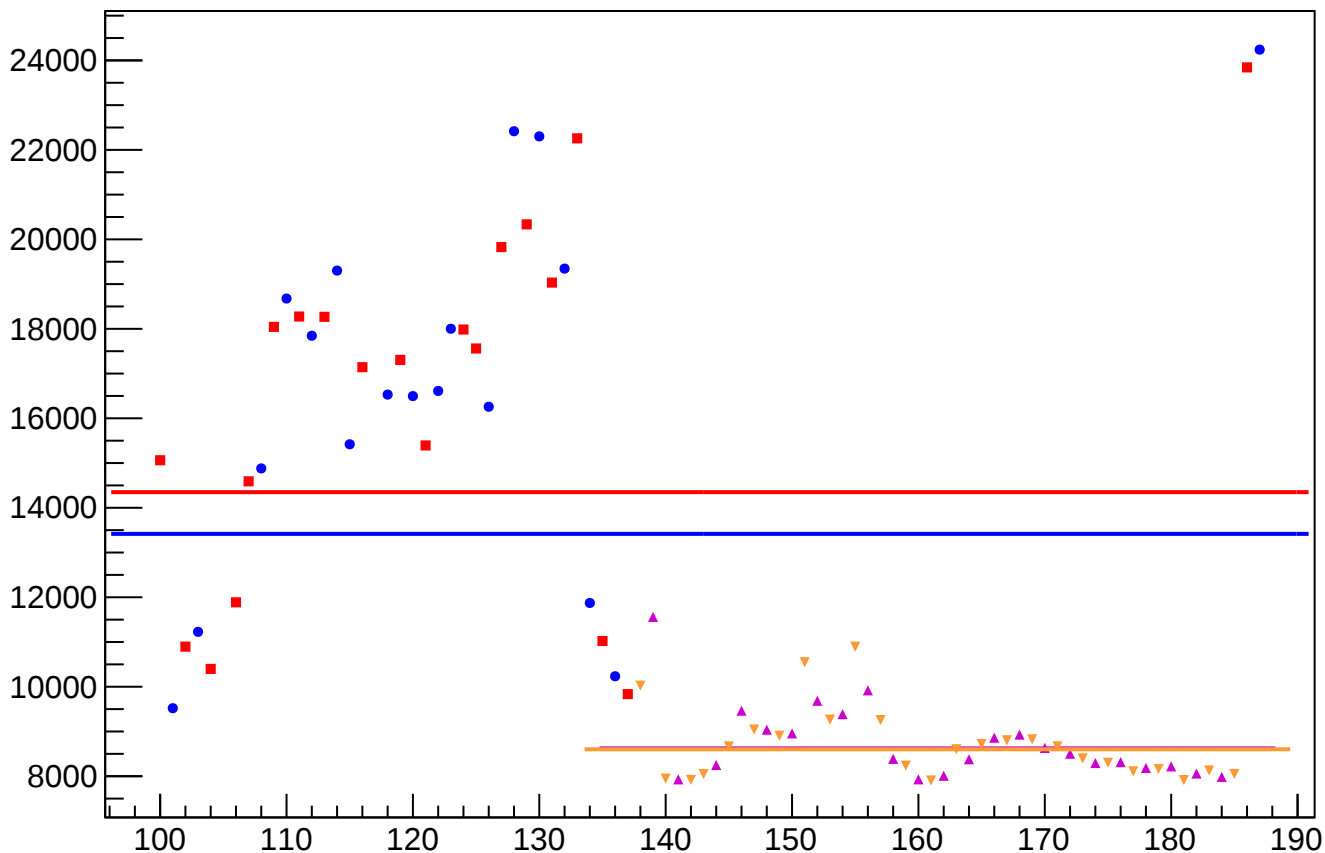
Left In: -0.027 ± 2.080 χ^2/NDF : 29.9/22

+ sign -9.442 ± 1.887 χ^2/NDF : 81.8/42

All: -5.397 ± 1.354 χ^2/NDF : 137.3/85

- sign -1.107 ± 1.944 χ^2/NDF : 46.0/42

diff_bpm1X_rms vs Slug



Right In: 13417.004+/-3.805 χ^2/NDF : 1109920.8/17

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

Right Out: 14349.308+/-3.861 χ^2/NDF : 1055546.2/19

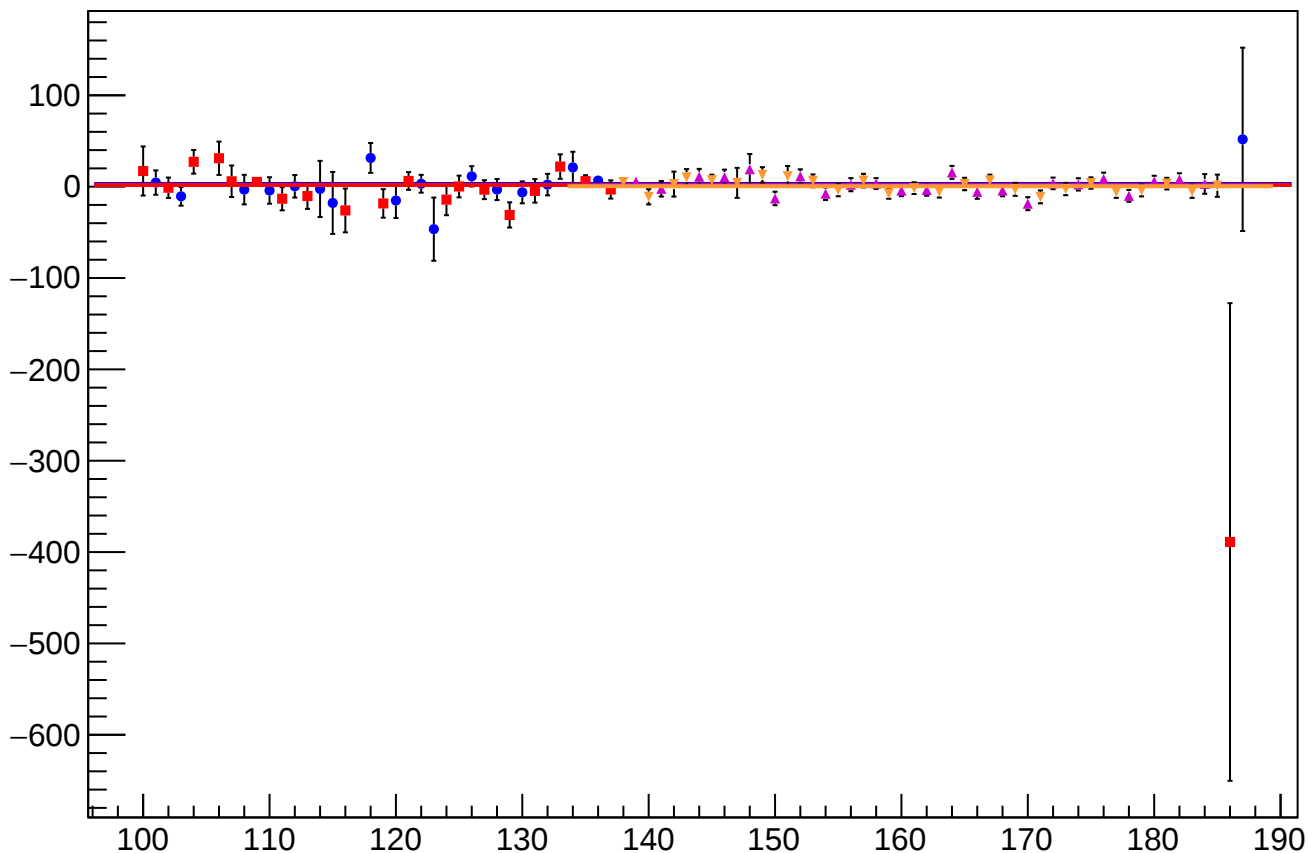
Left In: 8621.975+/-1.471 χ^2/NDF : 230824.4/22

+ sign 9194.178+/-1.334 χ^2/NDF : 2763220.5/42

All: 9268.591+/-0.957 χ^2/NDF : 5977237.1/85

- sign 9347.520+/-1.374 χ^2/NDF : 3207609.1/42

diff_bpm1Y_mean vs Slug



Right In: 2.948 $\pm$ 2.757 χ^2 /NDF: 12.0/17

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

Right Out: 1.858 $\pm$ 2.444 χ^2 /NDF: 25.0/19

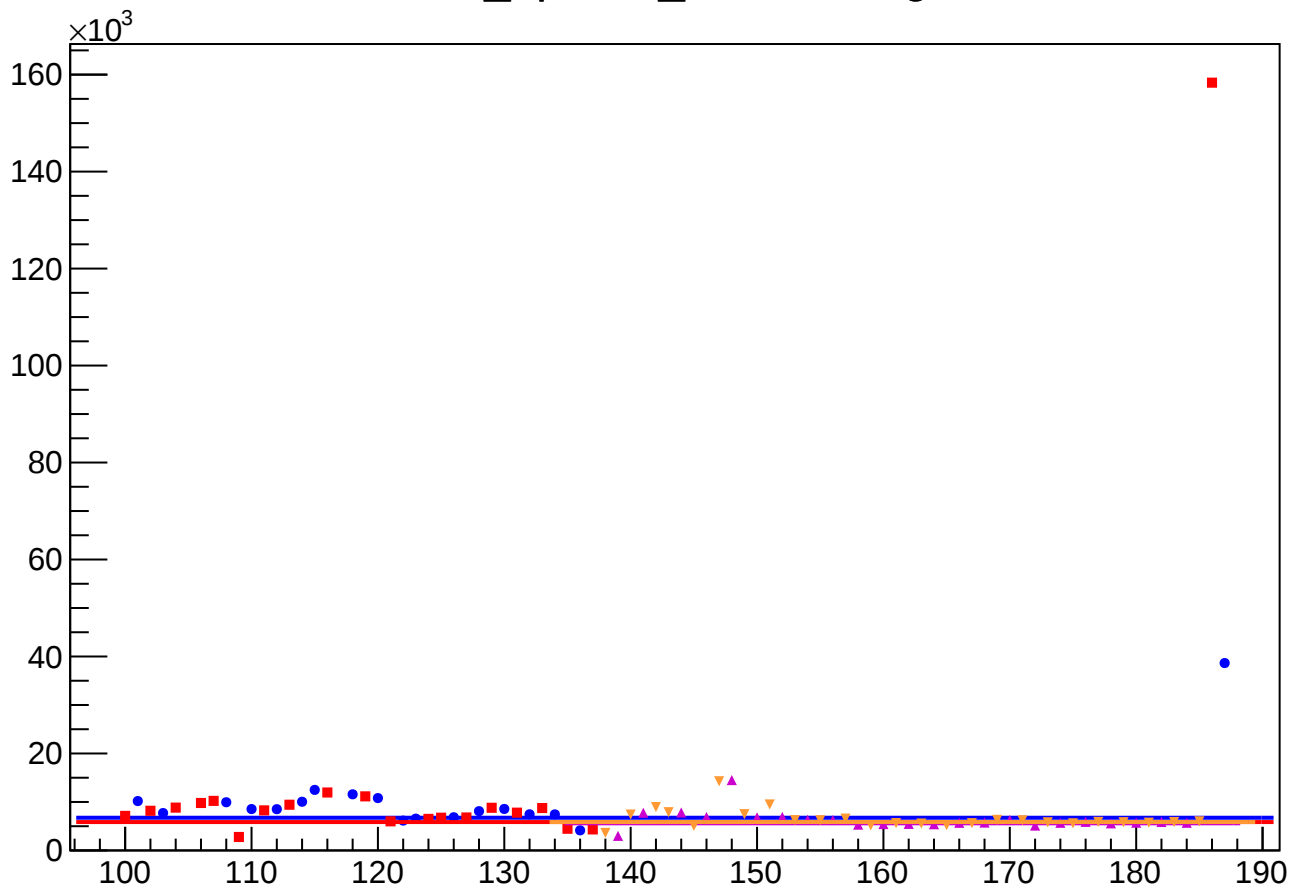
Left In: 1.298 $\pm$ 1.406 χ^2 /NDF:33.0/22

+ sign 0.997 $\pm$ 1.262 χ^2 /NDF: 32.2/42

All: 1.225 $\pm$ 0.877 χ^2 /NDF: 90.4/85

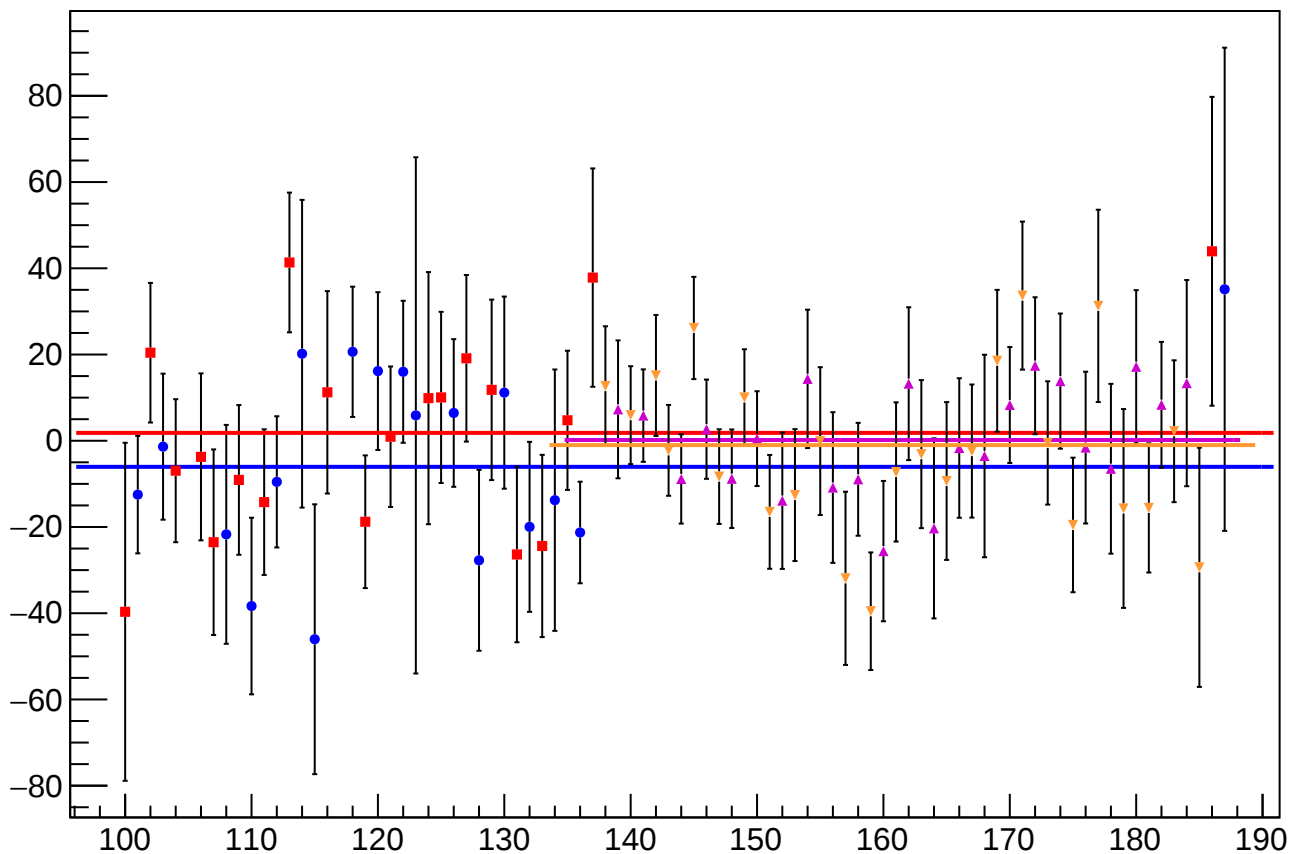
- sign 1.437 $\pm$ 1.219 χ^2 /NDF: 58.1/42

diff_bpm1Y_rms vs Slug



Right In: 6748.496 ± 1.949 $\chi^2/\text{NDF}: 1593956.1/17$ + sign 6045.089 ± 0.892 $\chi^2/\text{NDF}: 3450040.1/42$
 Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$ All: 5846.609 ± 0.620 $\chi^2/\text{NDF}: 8613716.0/85$
 Right Out: 5856.335 ± 1.728 $\chi^2/\text{NDF}: 2961333.6/19$ - sign 5661.418 ± 0.862 $\chi^2/\text{NDF}: 5068019.5/42$
 Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

diff_bpm11X_mean vs Slug



Right In: -6.049 ± 4.510 χ^2/NDF : 16.8/17

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

Right Out: 1.828 ± 4.349 χ^2/NDF : 21.6/19

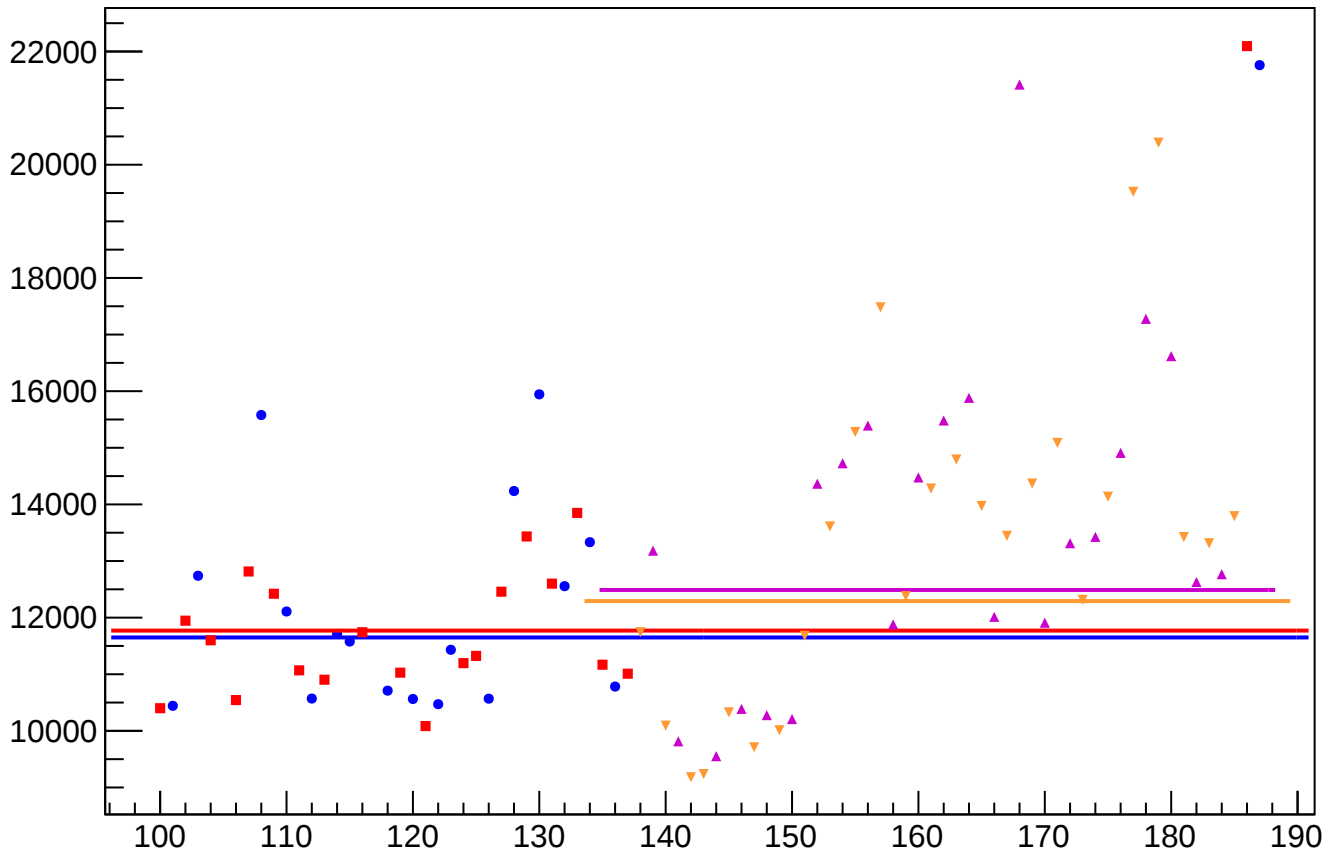
Left In: 0.172 ± 3.067 χ^2/NDF : 12.4/22

+ sign -2.512 ± 2.464 χ^2/NDF : 51.1/42

All: -0.923 ± 1.757 χ^2/NDF : 86.0/85

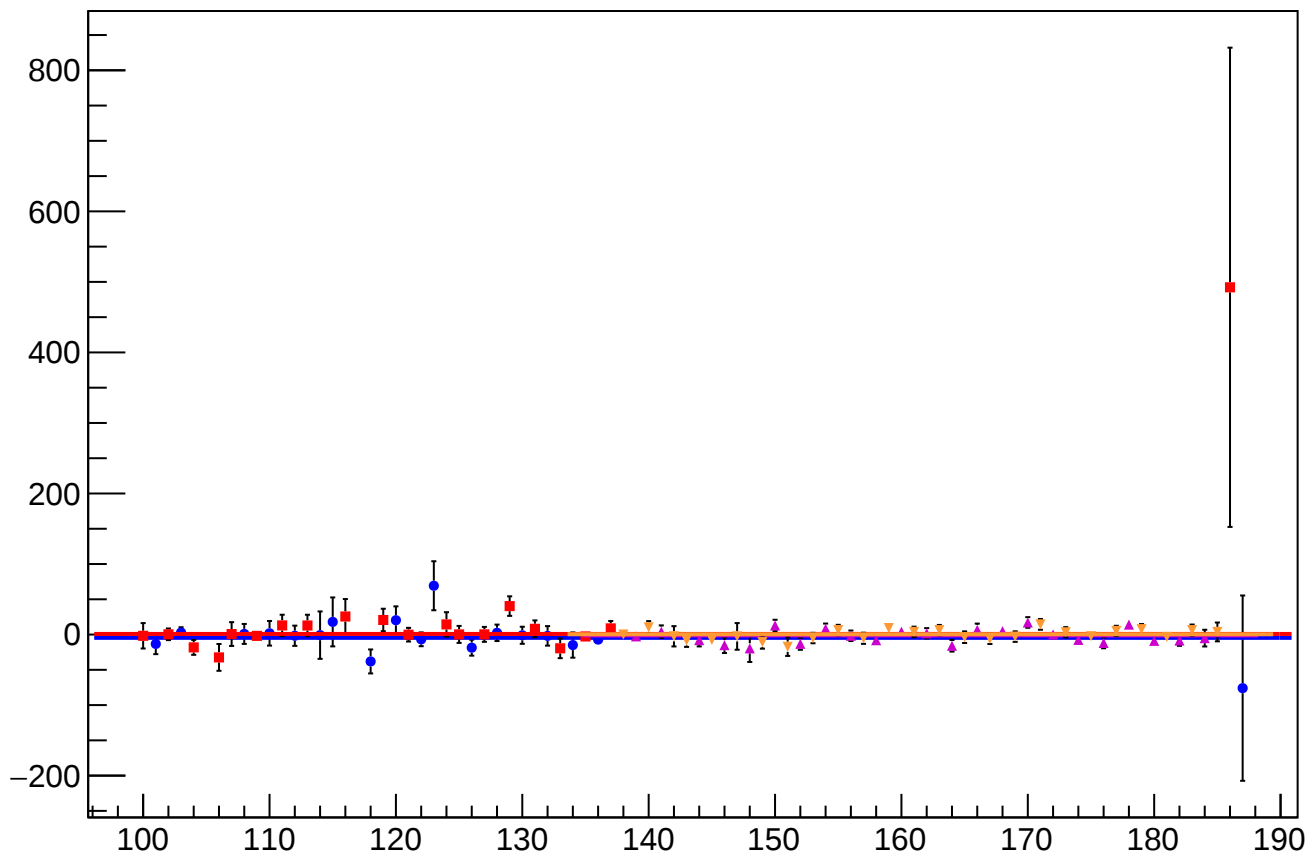
- sign 0.722 ± 2.507 χ^2/NDF : 34.0/42

diff_bpm11X_rms vs Slug



Right In: 11649.964 $\pm$ 3.189	χ^2 /NDF: 307069.1/17	+ sign 12100.813 $\pm$ 1.742	χ^2 /NDF: 1838101.9/42
Left Out: 12292.583 $\pm$ 2.080	χ^2 /NDF: 1502548.3/24	All: 12174.377 $\pm$ 1.242	χ^2 /NDF: 3496688.9/8
Right Out: 11771.367 $\pm$ 3.075	χ^2 /NDF: 264127.4/19	- sign 12250.517 $\pm$ 1.772	χ^2 /NDF: 1654958.7/42
Left In: 12488.821 $\pm$ 2.169	χ^2 /NDF: 1354485.4/22		

diff_bpm11Y_mean vs Slug



Right In: -4.648 ± 2.781 $\chi^2/\text{NDF}: 15.1/17$

Left Out: 0.410 ± 1.435 $\chi^2/\text{NDF}: 19.3/24$

Right Out: 0.866 ± 2.431 $\chi^2/\text{NDF}: 24.6/19$

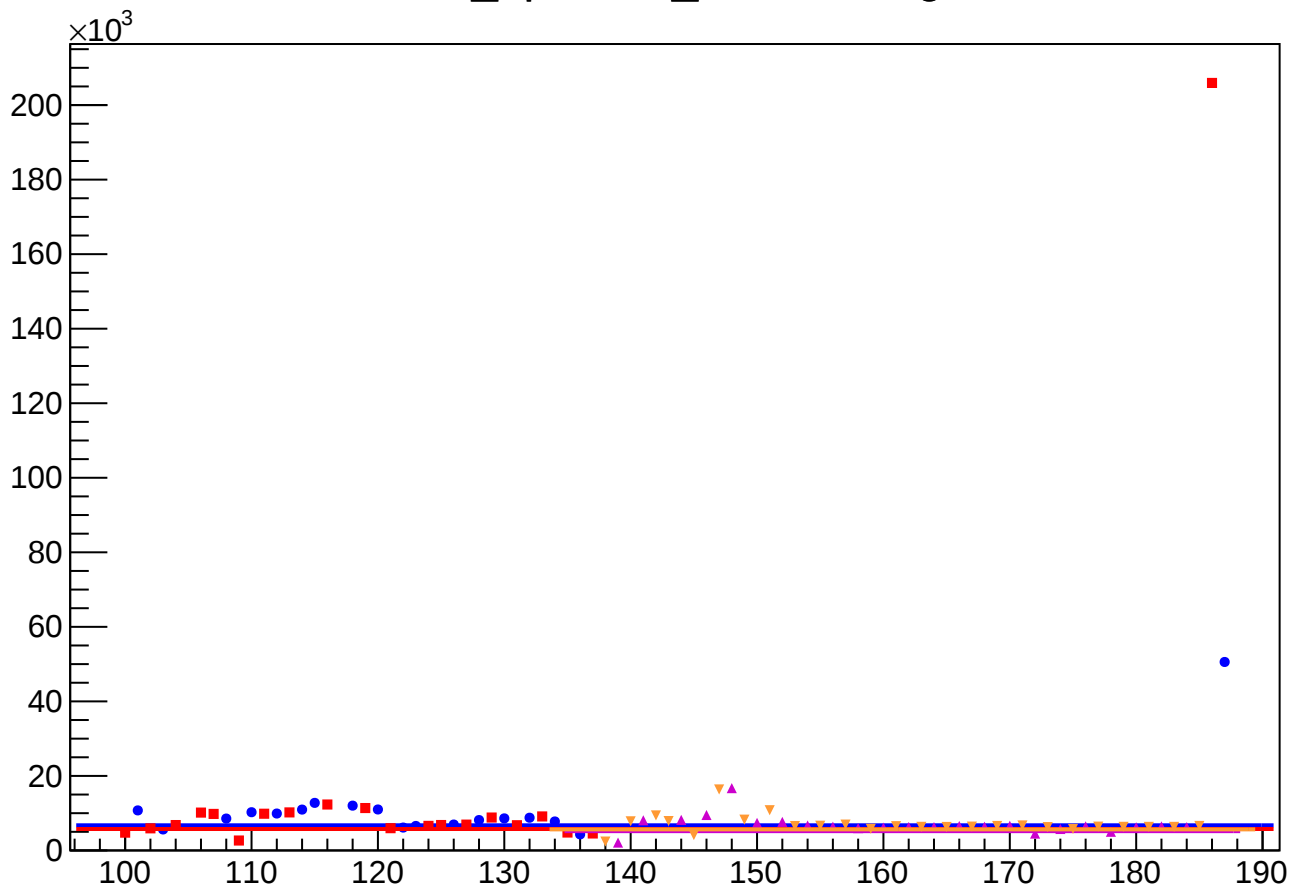
Left In: -1.278 ± 1.386 $\chi^2/\text{NDF}: 34.0/22$

+ sign -0.653 ± 1.275 $\chi^2/\text{NDF}: 37.0/42$

All: -0.705 ± 0.875 $\chi^2/\text{NDF}: 96.2/85$

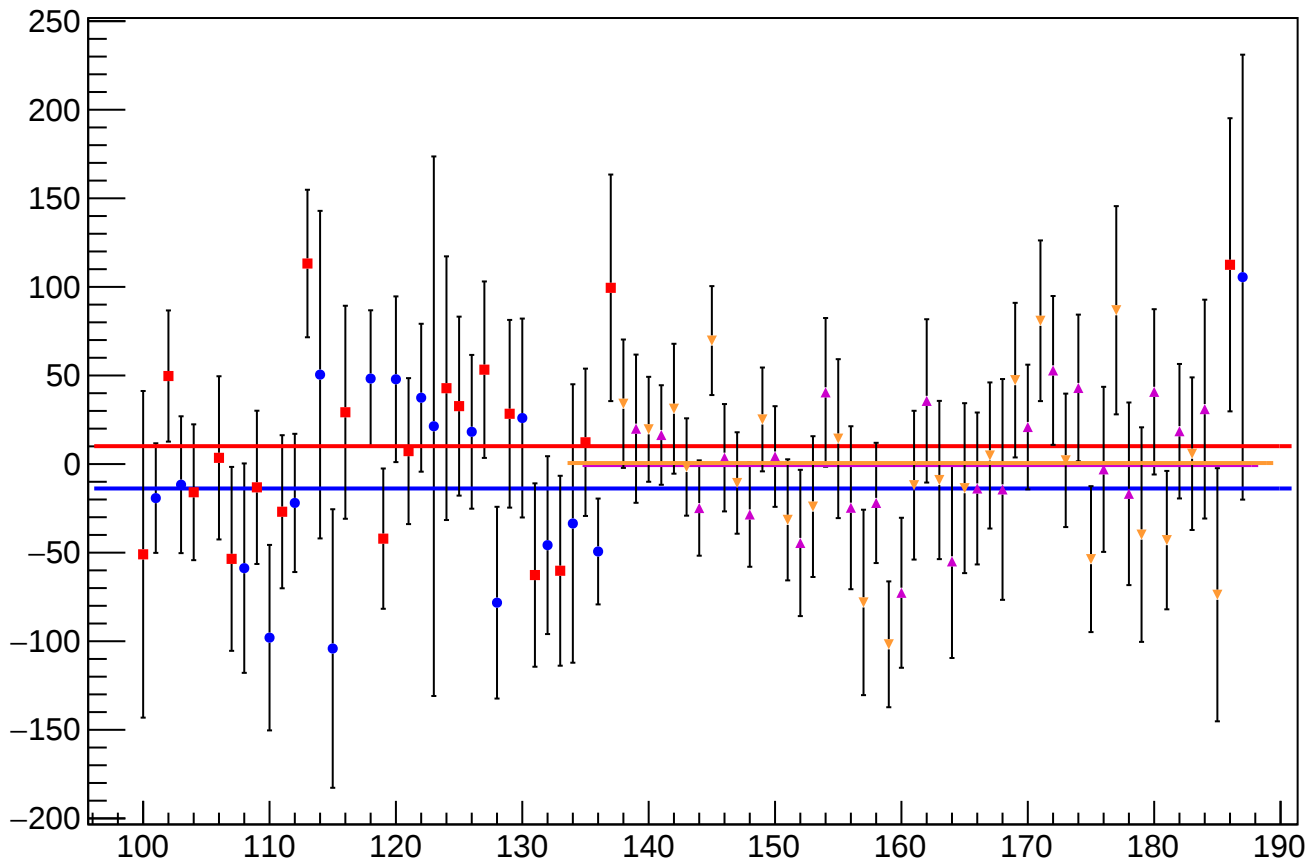
- sign -0.752 ± 1.204 $\chi^2/\text{NDF}: 59.2/42$

diff_bpm11Y_rms vs Slug



Right In: 6750.584 ± 1.967 $\chi^2/\text{NDF}: 1667269.3/17$ + sign 5885.744 ± 0.902 $\chi^2/\text{NDF}: 6036237.6/42$
 Left Out: 5655.639 ± 1.014 $\chi^2/\text{NDF}: 4124124.3/24$ All: 5587.623 ± 0.619 $\chi^2/\text{NDF}: 14536710.1/8$
 Right Out: 5755.953 ± 1.719 $\chi^2/\text{NDF}: 2859050.8/19$ - sign 5321.843 ± 0.851 $\chi^2/\text{NDF}: 8293637.2/42$
 Left In: 5180.743 ± 0.980 $\chi^2/\text{NDF}: 5350053.6/22$

diff_bpm12X_mean vs Slug



Right In: -13.779 ± 11.192 χ^2/NDF : 16.2/17

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

Right Out: 10.104 ± 10.819 χ^2/NDF : 21.0/19

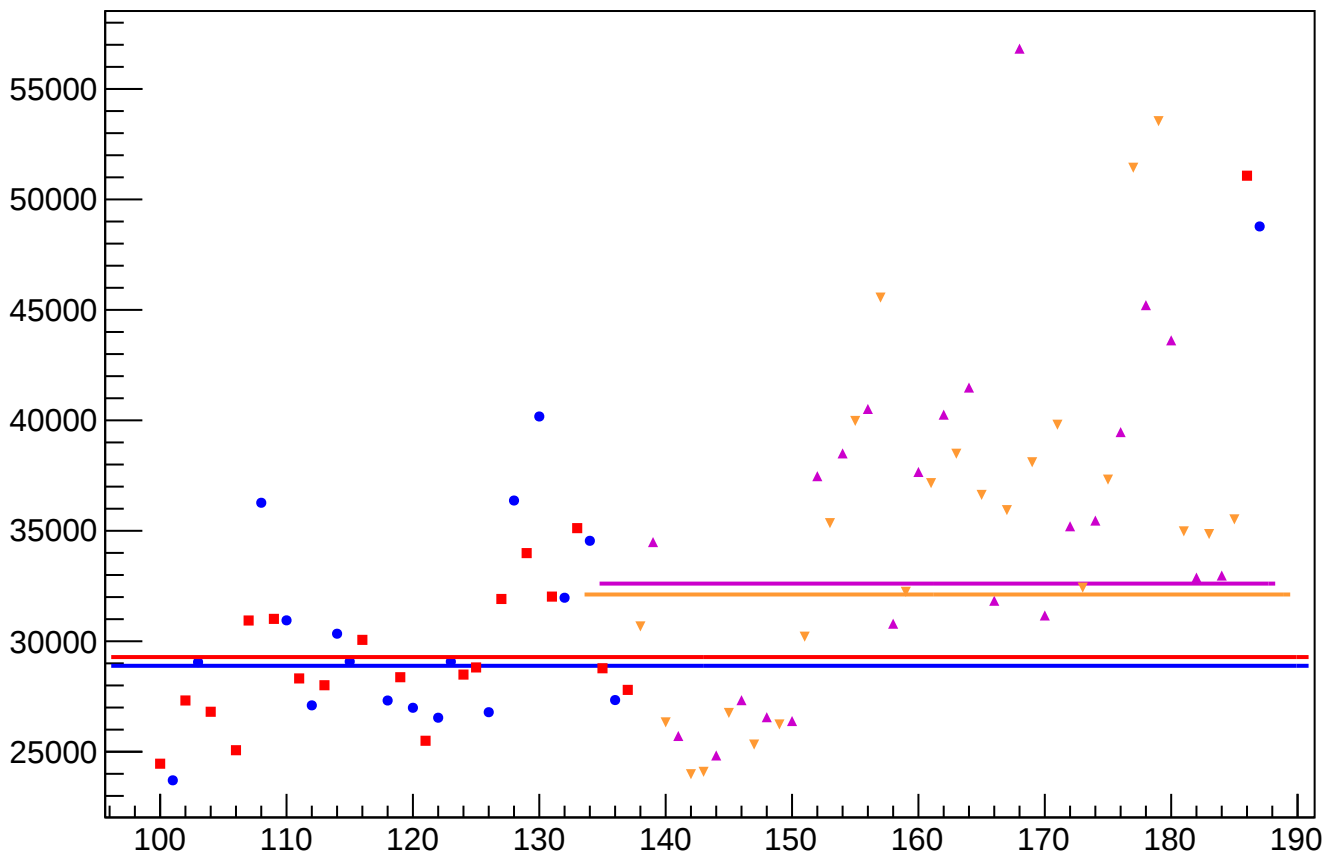
Left In: -0.565 ± 8.015 χ^2/NDF : 14.3/22

+ sign -4.026 ± 6.338 χ^2/NDF : 48.3/42

All: -0.463 ± 4.517 χ^2/NDF : 84.9/85

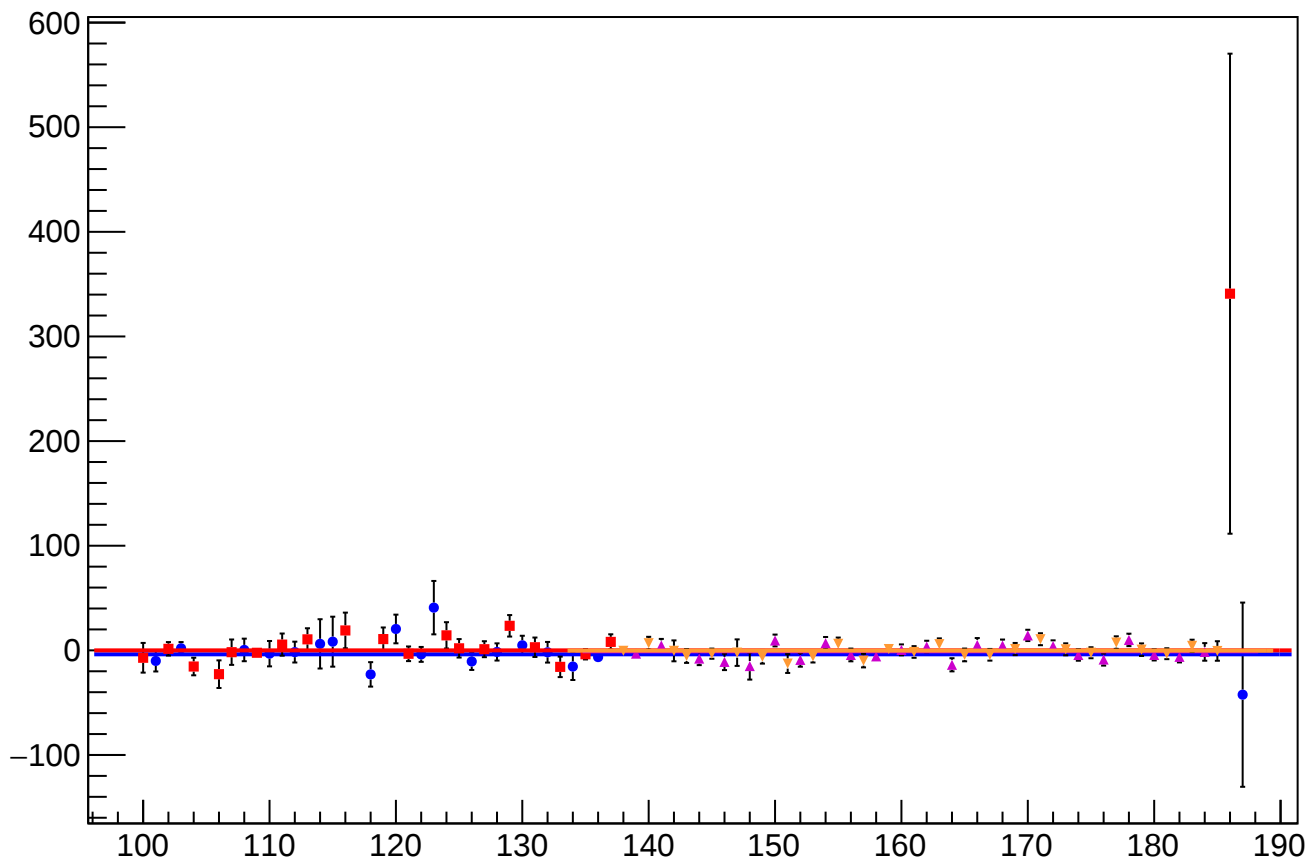
- sign 3.216 ± 6.440 χ^2/NDF : 35.9/42

diff_bpm12X_rms vs Slug



Right In: 28889.172 $\pm$ 7.914	χ^2 /NDF: 305387.1/17	+ sign 31081.875 $\pm$ 4.482	χ^2 /NDF: 1955137.3/42
Left Out: 32117.184 $\pm$ 5.438	χ^2 /NDF: 1536740.0/24	All: 31254.082 $\pm$ 3.194	χ^2 /NDF: 3732415.8/42
Right Out: 29284.863 $\pm$ 7.650	χ^2 /NDF: 253807.5/19	- sign 31431.847 $\pm$ 4.554	χ^2 /NDF: 1774278.3/42
Left In: 32610.108 $\pm$ 5.667	χ^2 /NDF: 1398475.8/22		

diff_bpm12Y_mean vs Slug



Right In: -3.793 ± 2.010 χ^2/NDF : 14.2/17

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

Right Out: -0.019 ± 1.894 χ^2/NDF : 23.9/19

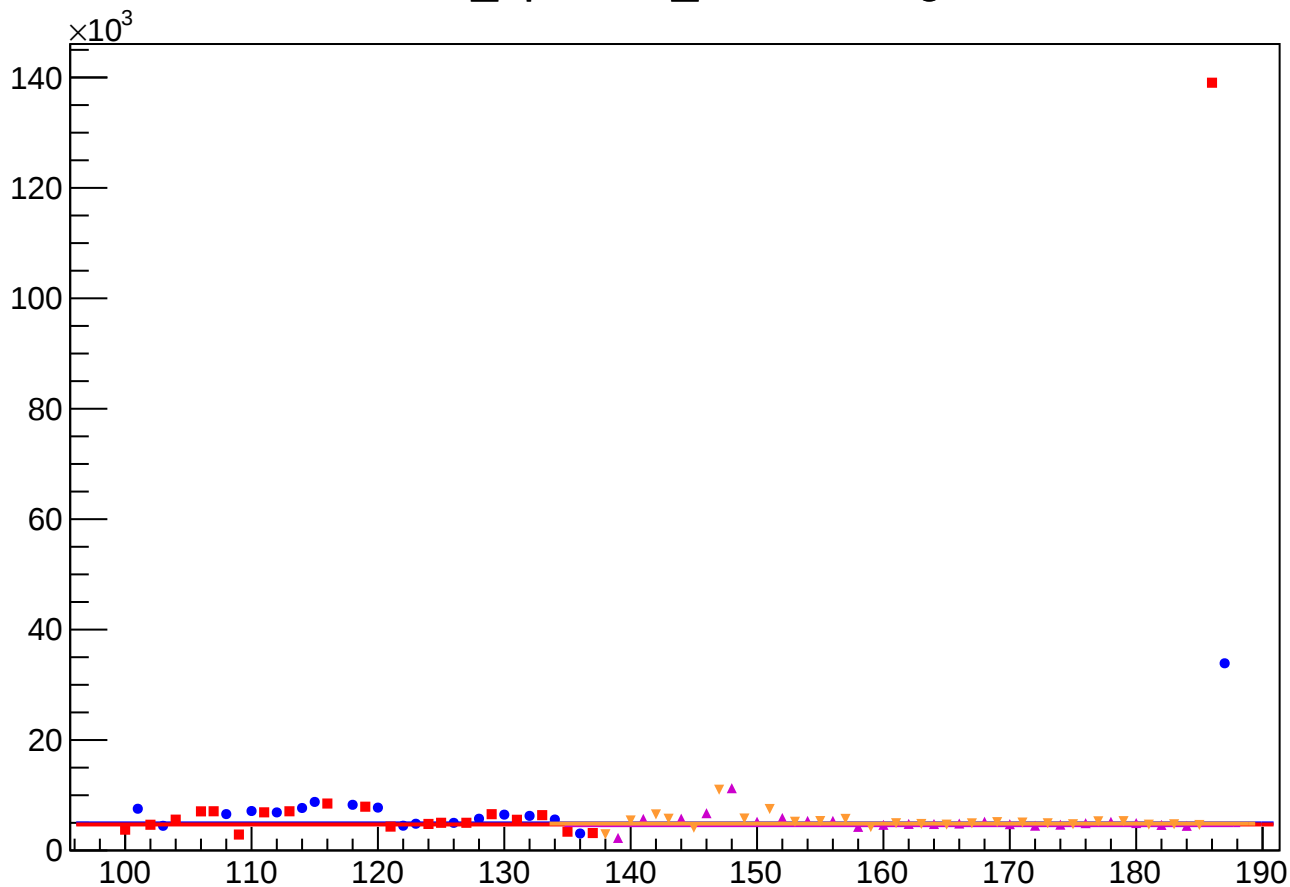
Left In: -0.925 ± 1.154 χ^2/NDF : 36.1/22

+ sign -1.154 ± 1.013 χ^2/NDF : 34.5/42

All: -0.911 ± 0.706 χ^2/NDF : 94.8/85

- sign -0.680 ± 0.985 χ^2/NDF : 60.2/42

diff_bpm12Y_rms vs Slug



Right In: 4902.875 ± 1.421 $\chi^2/\text{NDF}: 1625704.1/17$

Left Out: 4866.528 ± 0.829 $\chi^2/\text{NDF}: 1511486.2/24$

Right Out: 4707.532 ± 1.339 $\chi^2/\text{NDF}: 2001998.7/19$

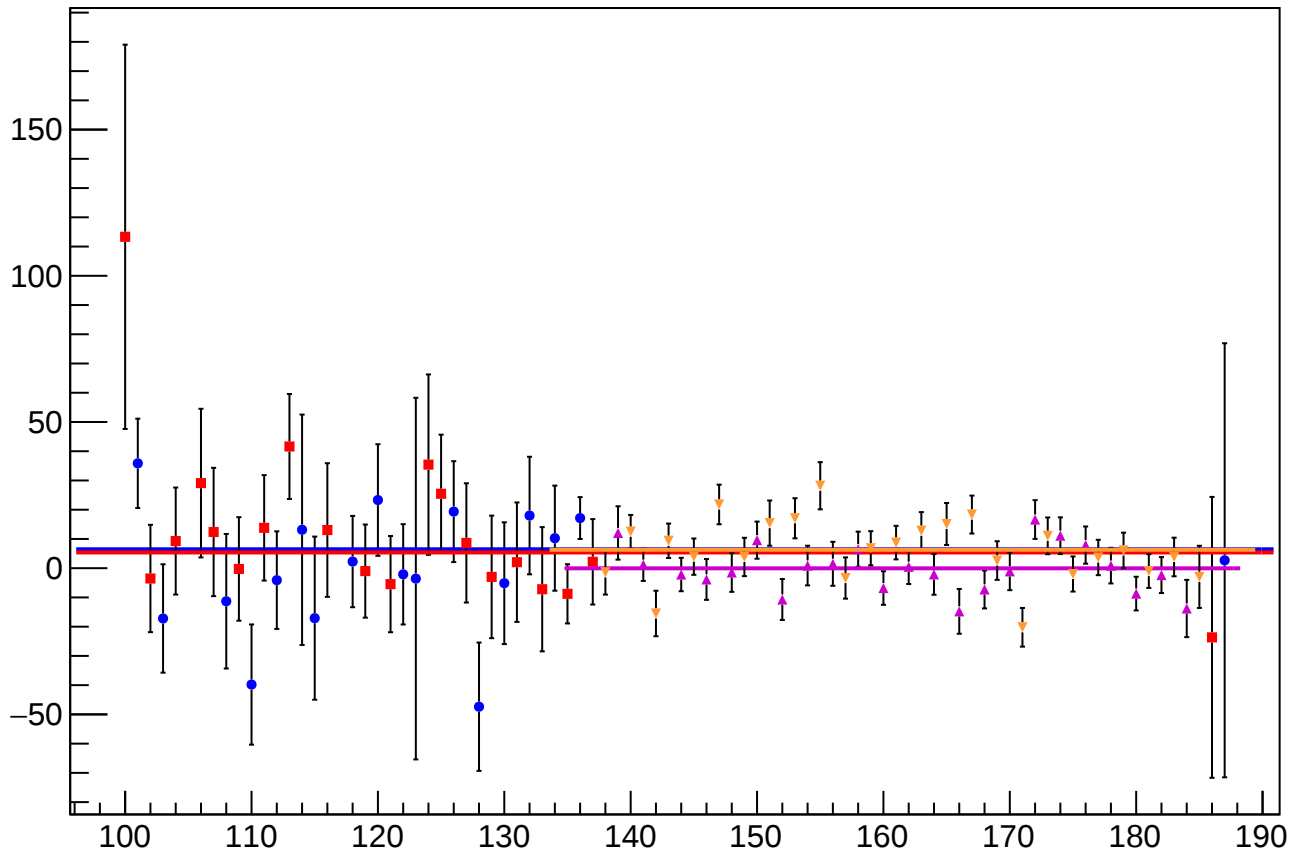
Left In: 4582.193 ± 0.816 $\chi^2/\text{NDF}: 2478681.0/22$

+ sign 4875.764 ± 0.716 $\chi^2/\text{NDF}: 3137678.3/42$

All: 4742.344 ± 0.499 $\chi^2/\text{NDF}: 7692269.2/85$

- sign 4616.114 ± 0.697 $\chi^2/\text{NDF}: 4487068.0/42$

diff_bpm16X_mean vs Slug



Right In: 6.470 ± 4.066 $\chi^2/\text{NDF}: 22.8/17$

Left Out: 6.302 ± 1.313 $\chi^2/\text{NDF}: 56.7/24$

Right Out: 5.376 ± 4.211 $\chi^2/\text{NDF}: 13.9/19$

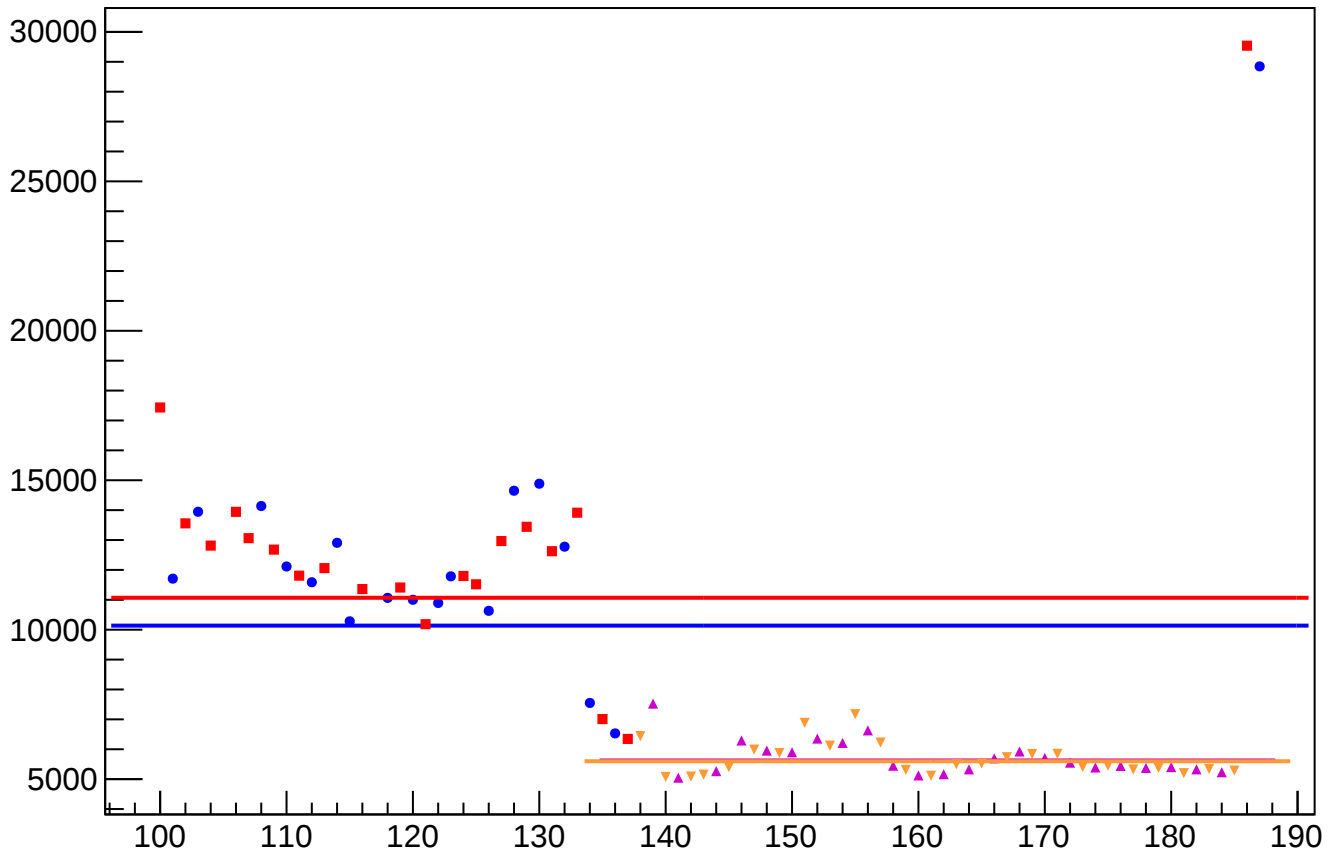
Left In: -0.044 ± 1.358 $\chi^2/\text{NDF}: 30.0/22$

+ sign 6.318 ± 1.249 $\chi^2/\text{NDF}: 79.4/42$

All: 3.491 ± 0.898 $\chi^2/\text{NDF}: 135.5/85$

- sign 0.466 ± 1.292 $\chi^2/\text{NDF}: 45.4/42$

diff_bpm16X_rms vs Slug



Right In: 10136.252 $\pm$ 2.875 χ^2 /NDF: 1126878.1/17

Left Out: 5598.786 $\pm$ 0.928 χ^2 /NDF: 283253.4/24

+ sign 6026.989 $\pm$ 0.883 χ^2 /NDF: 3665715.1/42

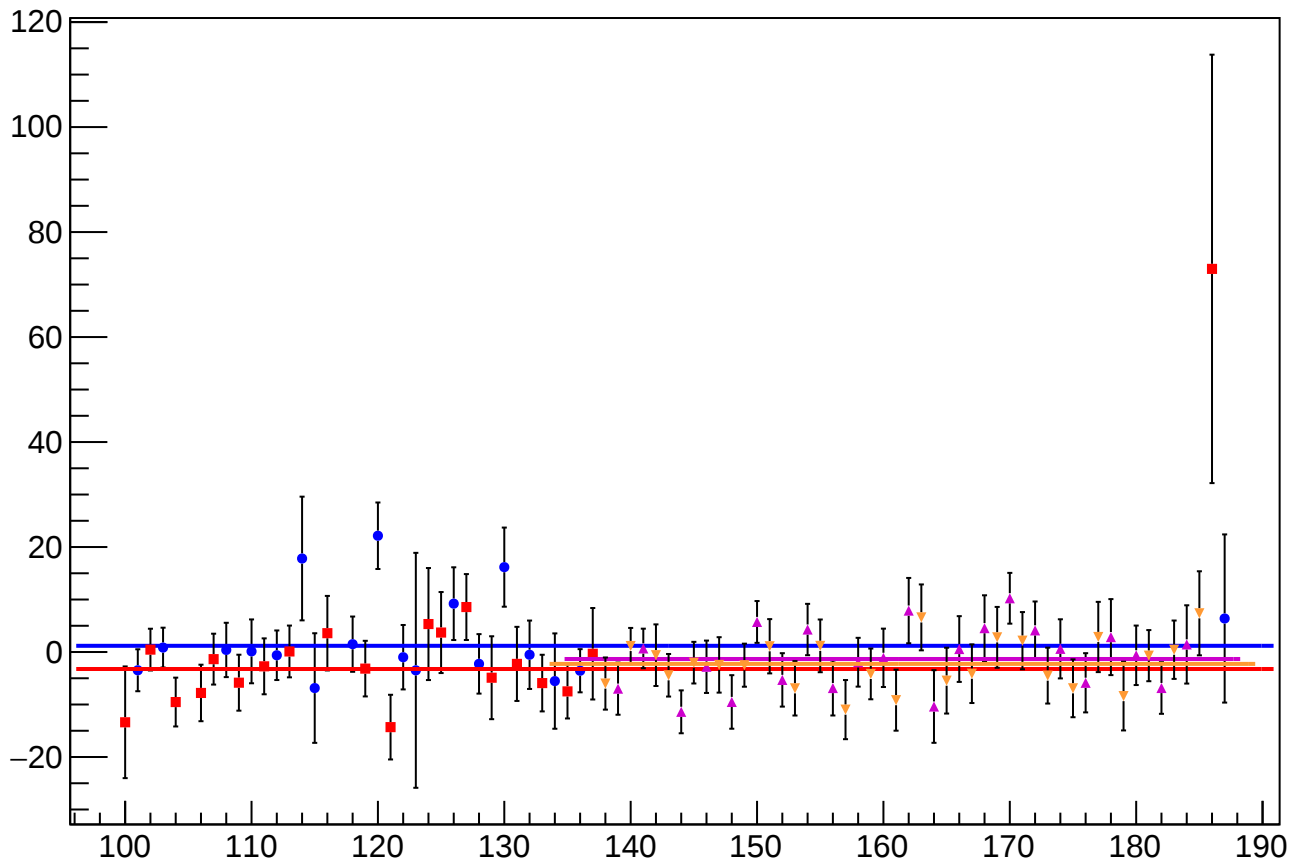
Right Out: 11067.999 $\pm$ 2.977 χ^2 /NDF: 1067733.4/19

All: 6080.503 $\pm$ 0.635 χ^2 /NDF: 8040643.3/85

Left In: 5625.163 $\pm$ 0.960 χ^2 /NDF: 272563.5/22

- sign 6137.776 $\pm$ 0.914 χ^2 /NDF: 4367328.5/42

diff_bpm16Y_mean vs Slug



Right In: 1.184 ± 1.392 χ^2/NDF : 23.0/17

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

Right Out: -3.234 ± 1.335 χ^2/NDF : 18.9/19

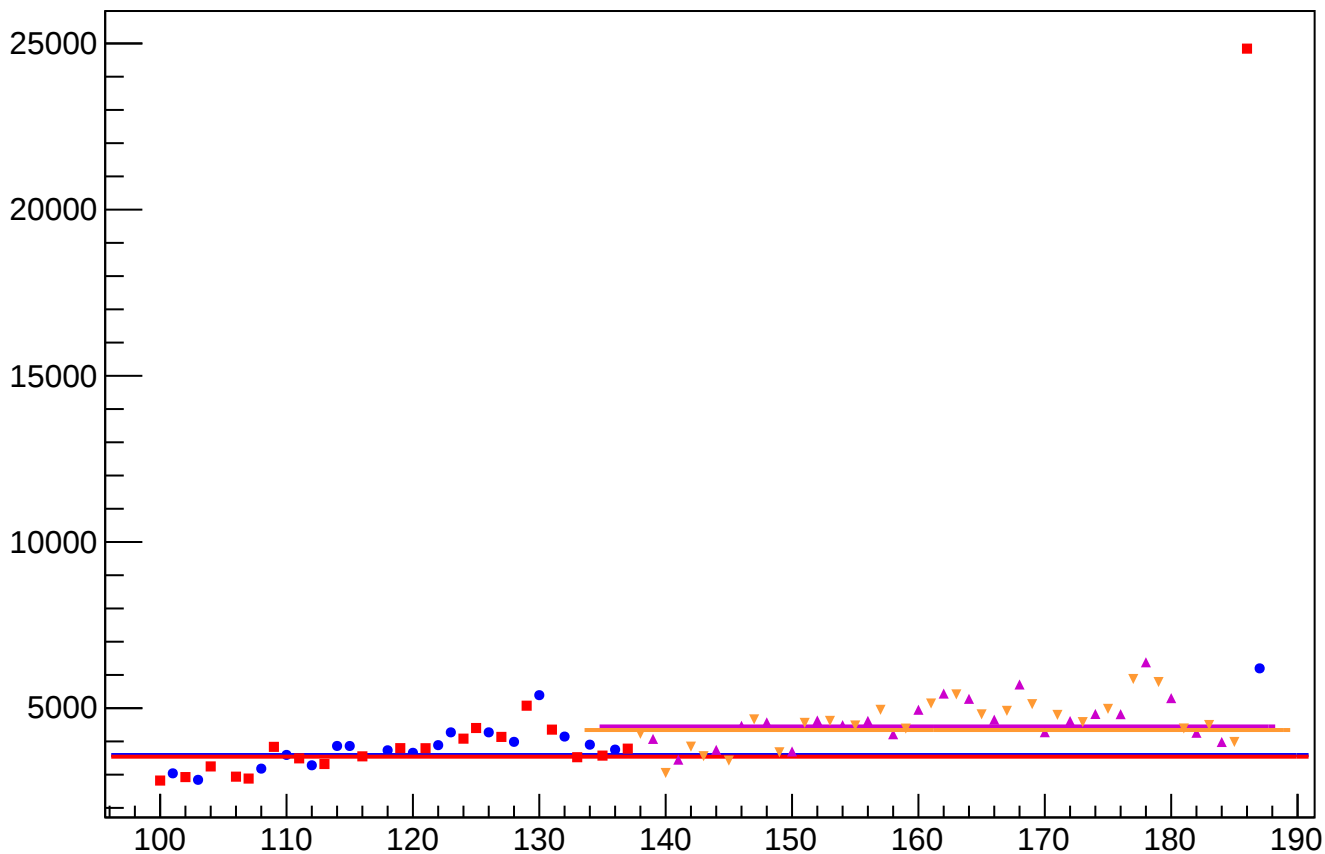
Left In: -1.328 ± 1.082 χ^2/NDF : 30.6/22

+ sign -1.043 ± 0.828 χ^2/NDF : 42.5/42

All: -1.556 ± 0.590 χ^2/NDF : 94.0/85

- sign -2.084 ± 0.840 χ^2/NDF : 50.8/42

diff_bpm16Y_rms vs Slug



Right In: 3590.400 $\pm$ 0.985 χ^2 /NDF: 363813.1/17

Left Out: 4342.635 $\pm$ 0.728 χ^2 /NDF: 993035.5/24

Right Out: 3540.761 $\pm$ 0.944 χ^2 /NDF: 841814.8/19

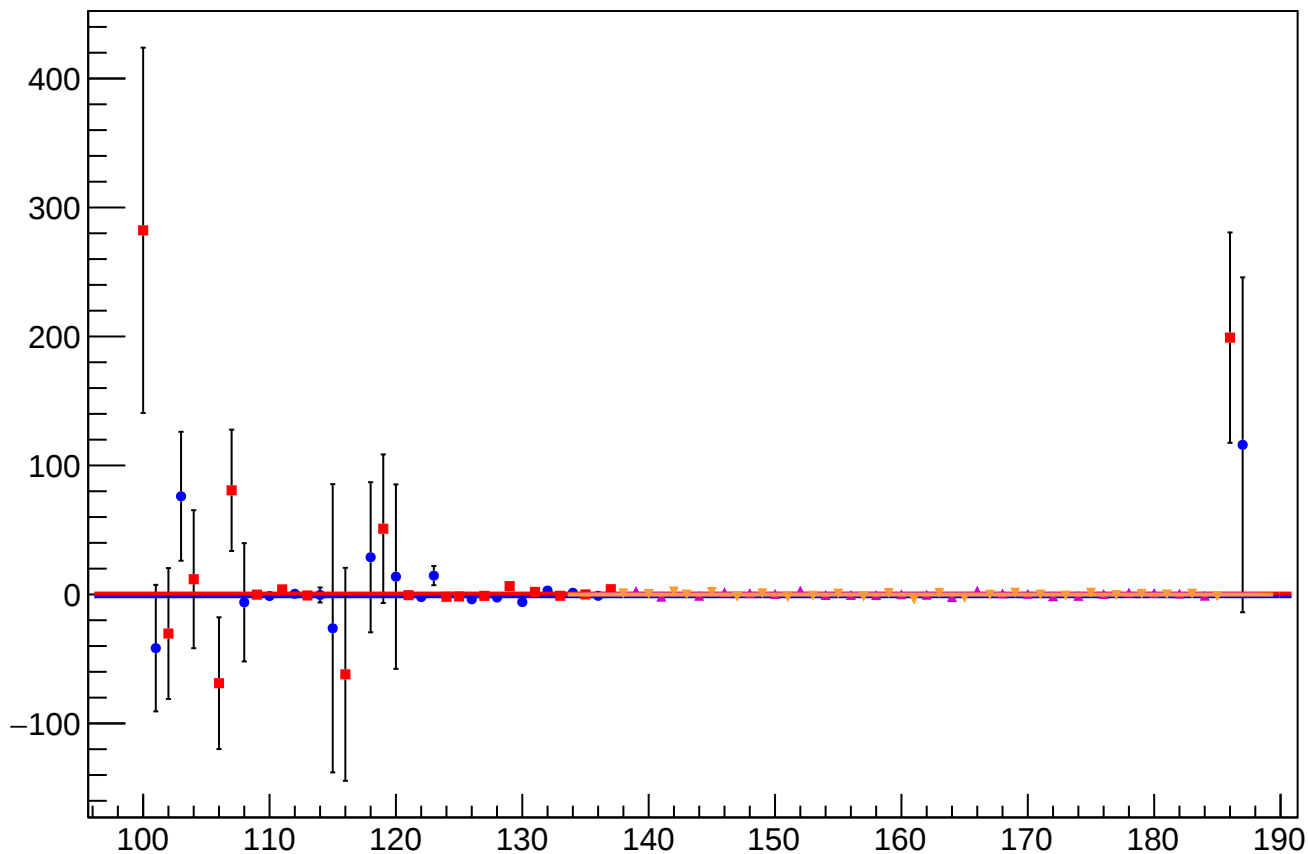
Left In: 4450.007 $\pm$ 0.765 χ^2 /NDF: 693229.8/22

+ sign 4076.544 $\pm$ 0.586 χ^2 /NDF: 1734089.0/42

All: 4082.866 $\pm$ 0.417 χ^2 /NDF: 3829528.3/85

- sign 4089.378 $\pm$ 0.594 χ^2 /NDF: 2095202.7/42

diff_bpm1p02bX_mean vs Slug



Right In: -1.398 ± 0.751 χ^2/NDF : 17.5/17

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

Right Out: 0.679 ± 0.713 χ^2/NDF : 27.4/19

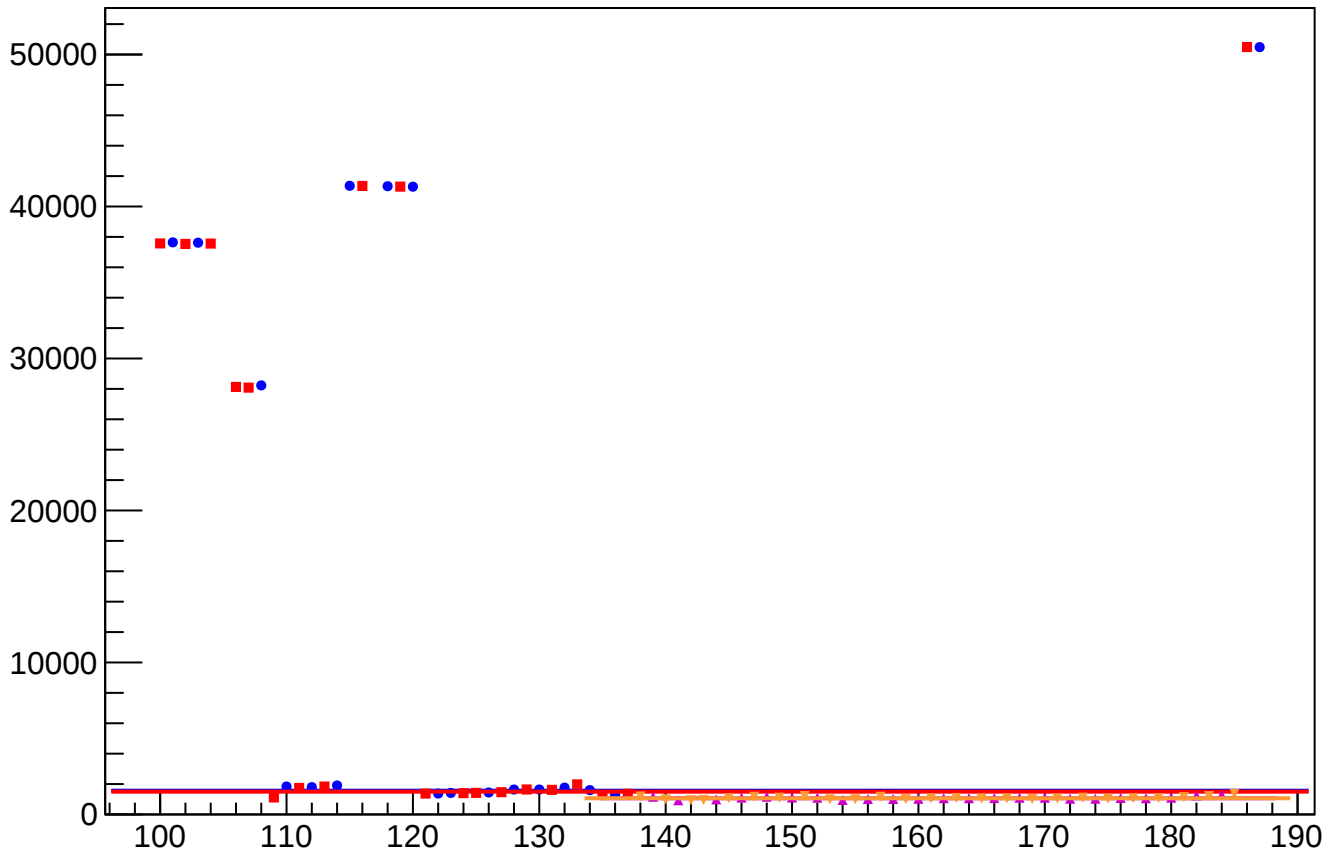
Left In: 0.259 ± 0.257 χ^2/NDF : 27.2/22

+ sign -0.221 ± 0.236 χ^2/NDF : 54.7/42

All: 0.037 ± 0.169 χ^2/NDF : 112.0/85

- sign 0.307 ± 0.242 χ^2/NDF : 54.9/42

diff_bpm1p02bX_rms vs Slug



Right In: 1562.166 ± 0.531 $\chi^2/\text{NDF}: 5037205.0/17$

Left Out: 1064.701 ± 0.176 $\chi^2/\text{NDF}: 186511.5/24$

Right Out: 1500.090 ± 0.504 $\chi^2/\text{NDF}: 5615018.0/19$

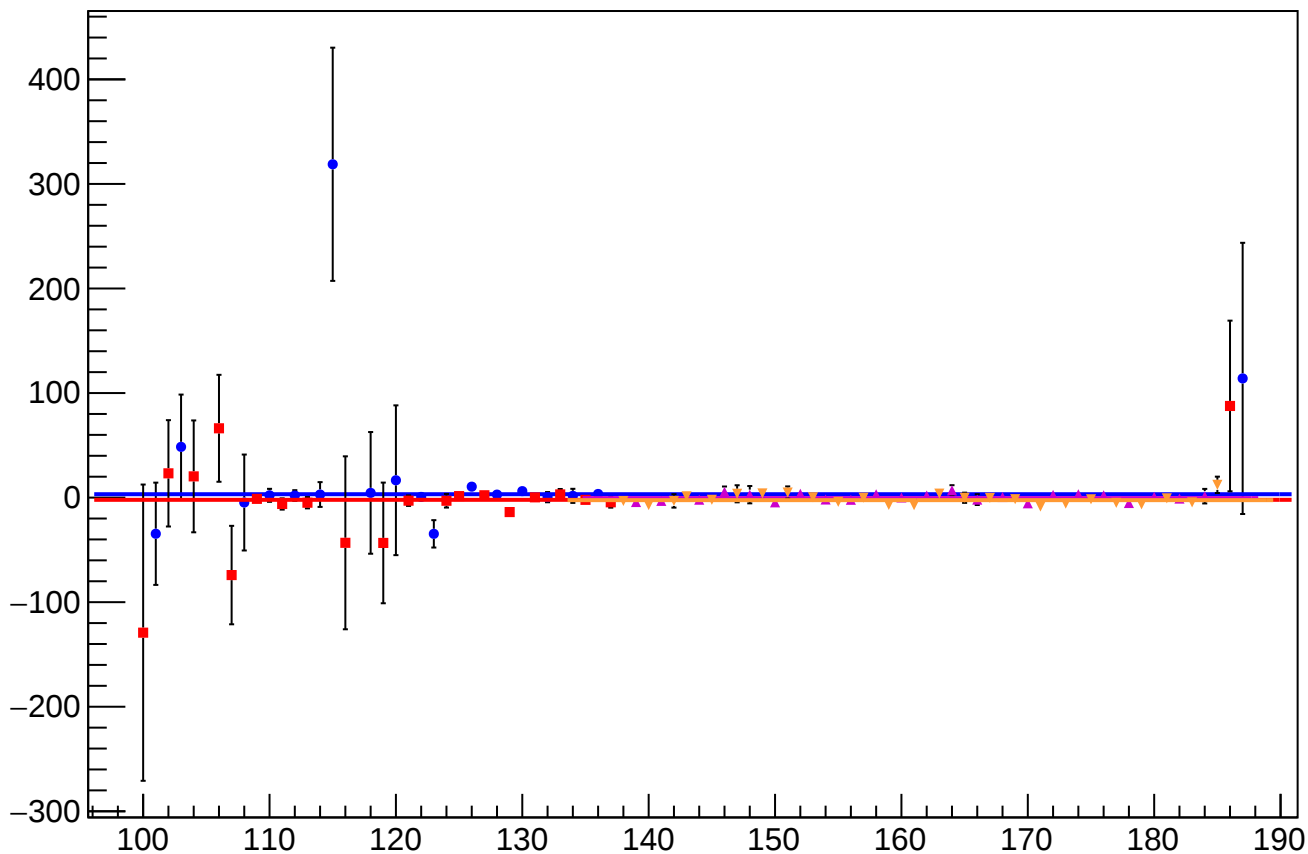
Left In: 1066.255 ± 0.182 $\chi^2/\text{NDF}: 164232.1/22$

+ sign 1114.034 ± 0.167 $\chi^2/\text{NDF}: 6015086.7/42$

All: 1115.056 ± 0.120 $\chi^2/\text{NDF}: 12449711.6/8$

- sign 1116.124 ± 0.171 $\chi^2/\text{NDF}: 6434548.4/42$

diff_bpm1p02bY_mean vs Slug



Right In: 3.244 ± 1.328 χ^2/NDF : 23.0/17

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

Right Out: -2.118 ± 1.239 χ^2/NDF : 17.7/19

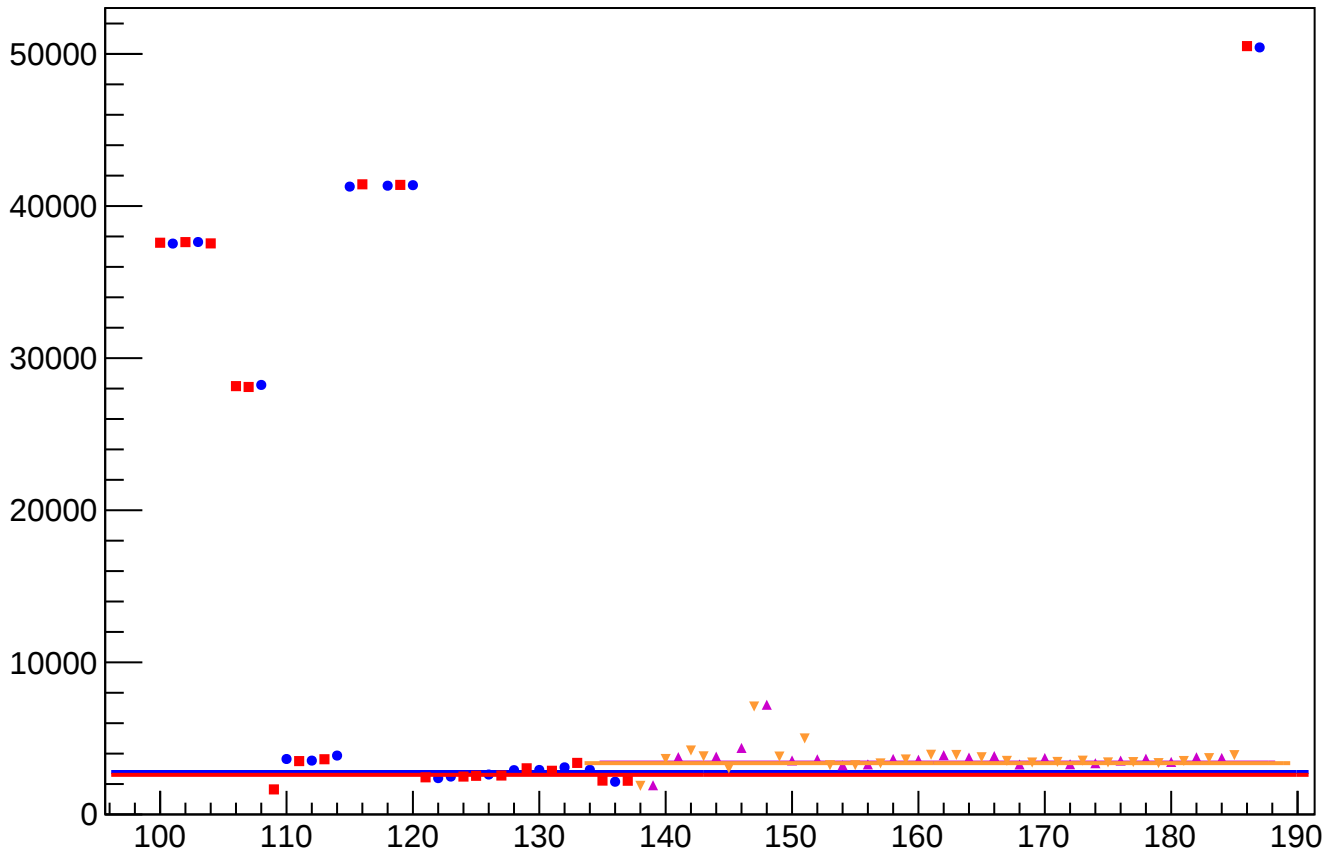
Left In: -0.468 ± 0.843 χ^2/NDF : 15.5/22

+ sign -0.883 ± 0.692 χ^2/NDF : 57.5/42

All: -0.936 ± 0.491 χ^2/NDF : 91.9/85

- sign -0.990 ± 0.697 χ^2/NDF : 34.4/42

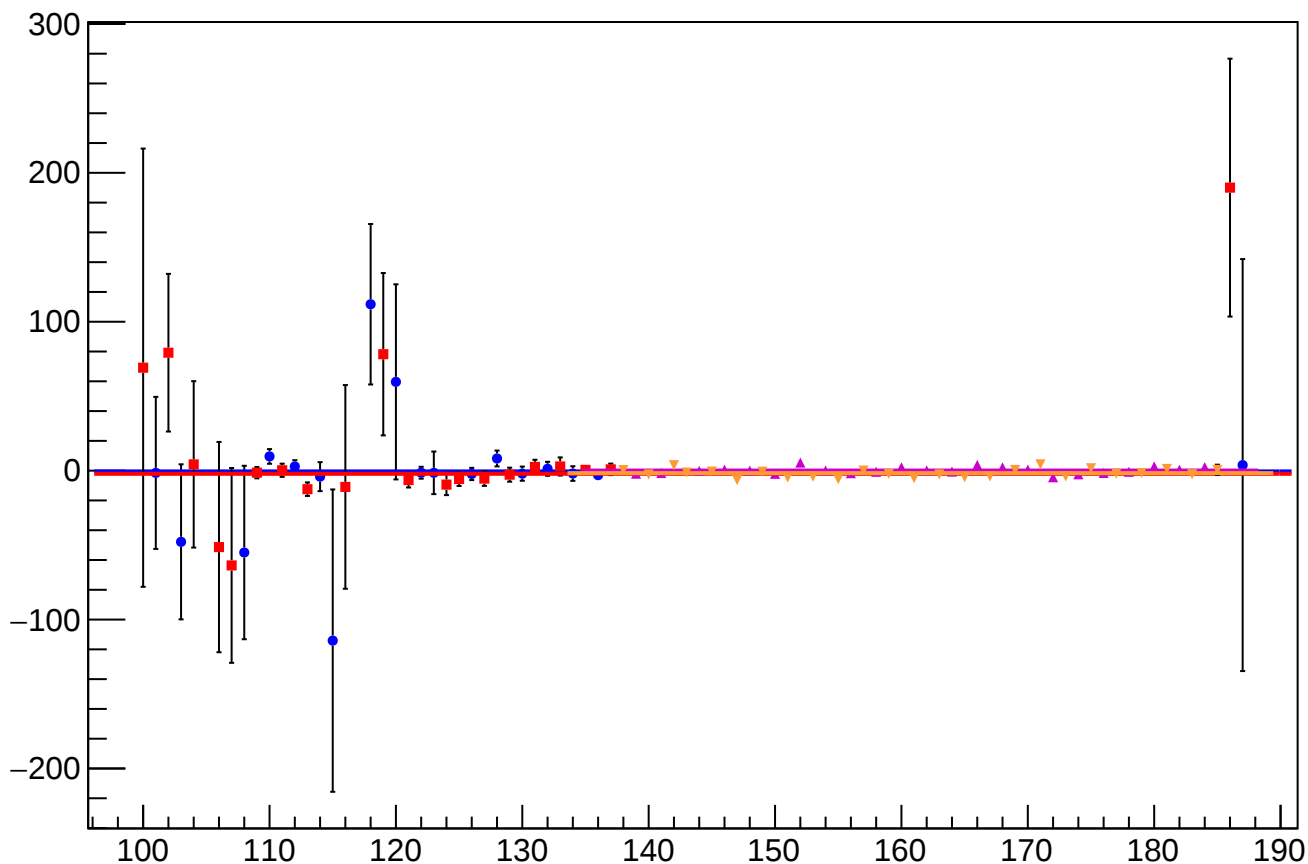
diff_bpm1p02bY_rms vs Slug



Right In: 2791.128 ± 0.939 $\chi^2/\text{NDF}: 4846570.5/17$
 Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$
 Right Out: 2604.892 ± 0.876 $\chi^2/\text{NDF}: 5537918.7/19$
 Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

+ sign 3214.983 ± 0.489 $\chi^2/\text{NDF}: 6783245.5/42$
 All: 3186.026 ± 0.347 $\chi^2/\text{NDF}: 14342761.0/8$
 - sign 3156.641 ± 0.493 $\chi^2/\text{NDF}: 7552456.0/42$

diff_bpm1p03aX_mean vs Slug



Right In: -0.510 ± 1.222 χ^2/NDF : 18.0/17

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

Right Out: -2.112 ± 1.250 χ^2/NDF : 22.5/19

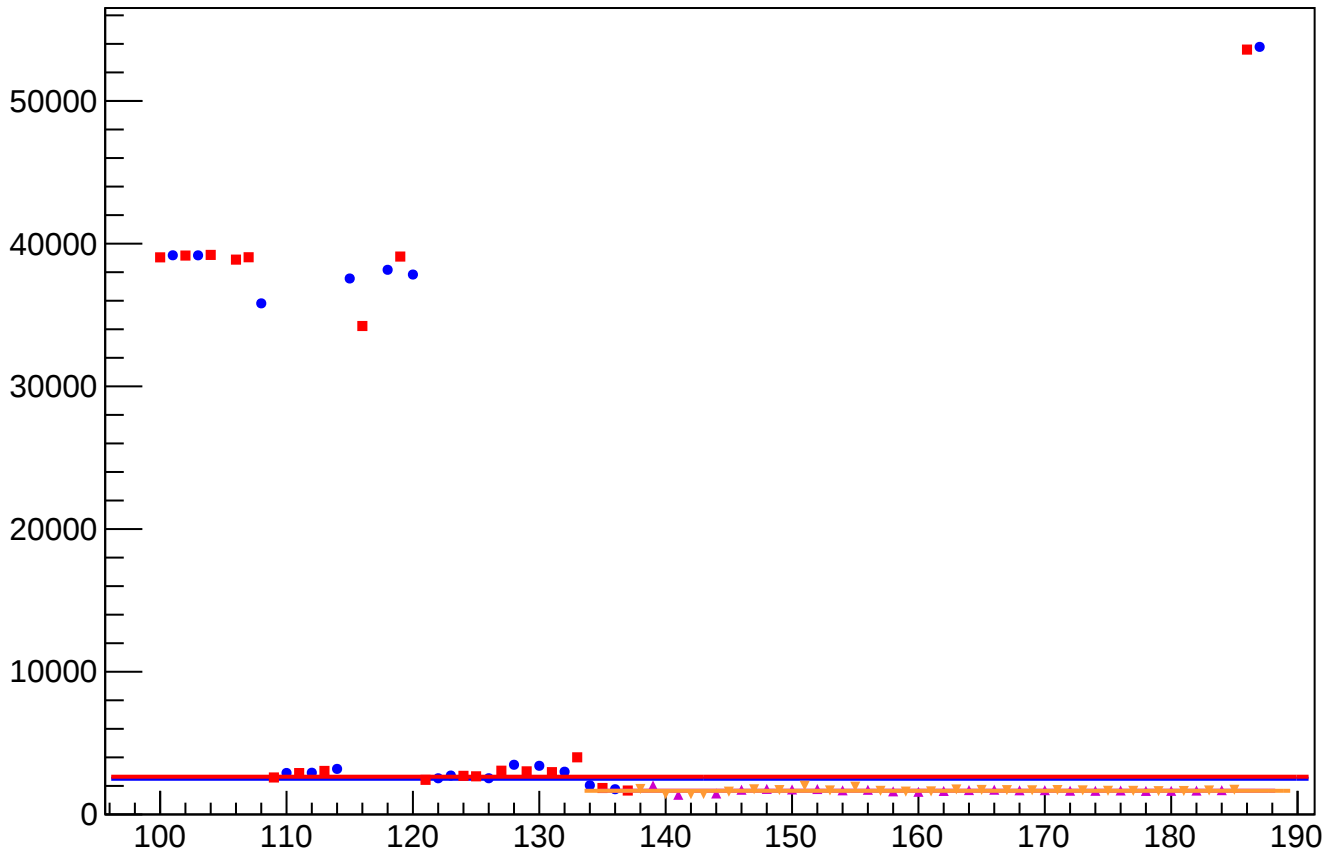
Left In: 0.072 ± 0.401 χ^2/NDF : 28.2/22

+ sign -1.566 ± 0.370 χ^2/NDF : 64.4/42

All: -0.872 ± 0.266 χ^2/NDF : 125.2/85

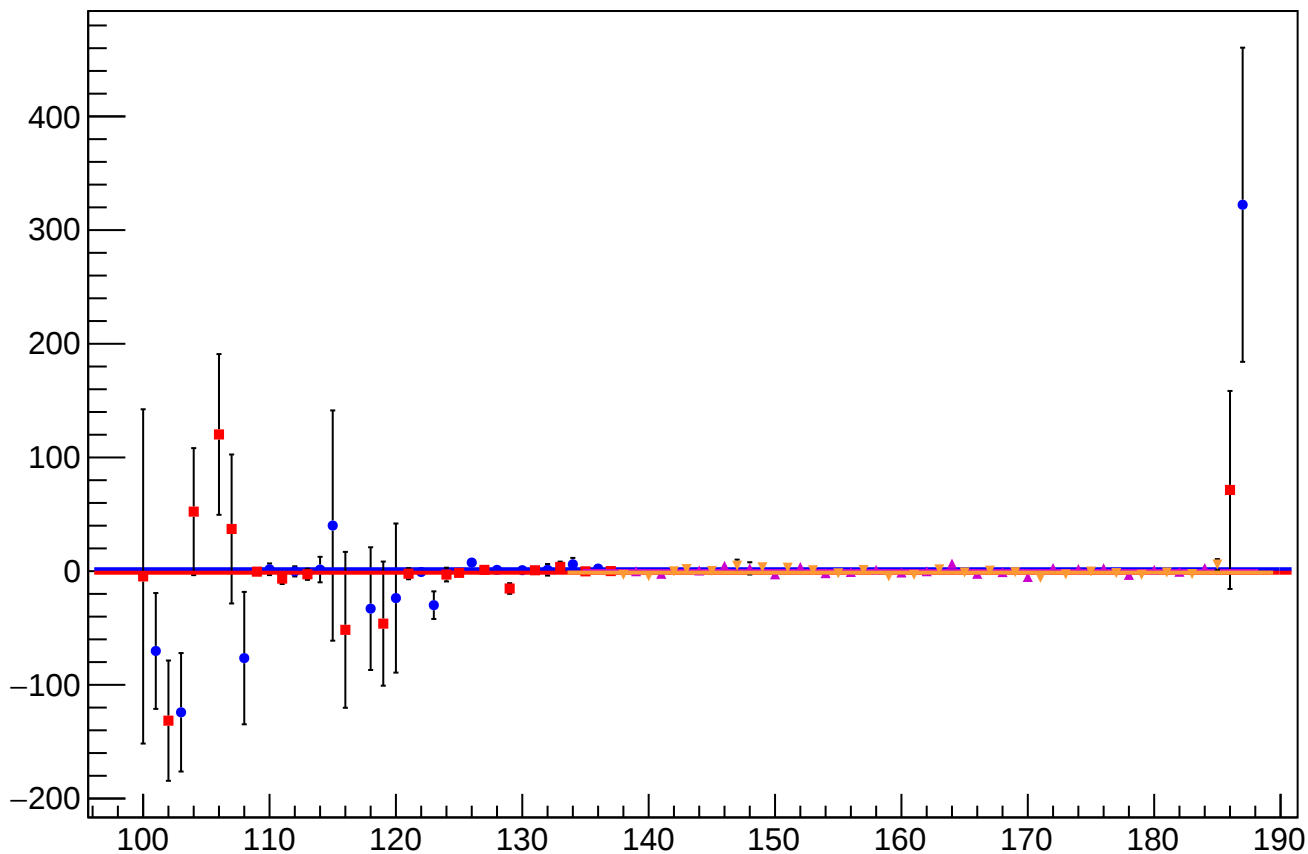
- sign -0.132 ± 0.382 χ^2/NDF : 53.5/42

diff_bpm1p03aX_rms vs Slug



Right In: 2500.857 ± 0.864 $\chi^2/\text{NDF}: 5162752.7/17$ + sign 1735.027 ± 0.262 $\chi^2/\text{NDF}: 6251200.5/42$
 Left Out: 1657.770 ± 0.274 $\chi^2/\text{NDF}: 223465.3/24$ All: 1744.815 ± 0.188 $\chi^2/\text{NDF}: 13105815.5/8$
 Right Out: 2645.220 ± 0.884 $\chi^2/\text{NDF}: 5554445.6/19$ - sign 1755.250 ± 0.270 $\chi^2/\text{NDF}: 6851720.9/42$
 Left In: 1663.620 ± 0.284 $\chi^2/\text{NDF}: 178858.2/22$

diff_bpm1p03aY_mean vs Slug



Right In: 1.693 ± 1.146 χ^2/NDF : 26.1/17

Left Out: -1.251 ± 0.535 χ^2/NDF : 21.7/24

Right Out: -1.369 ± 1.065 χ^2/NDF : 24.8/19

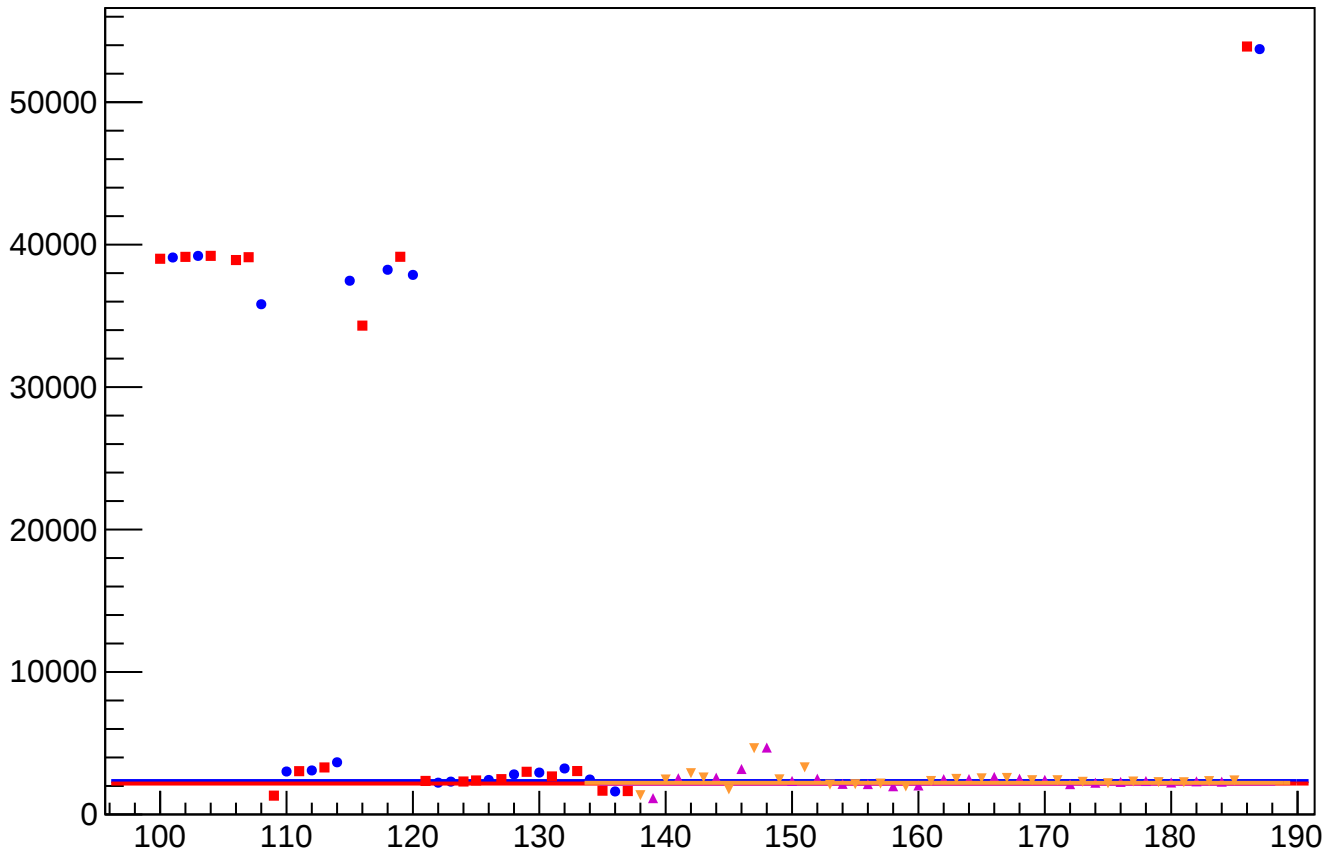
Left In: 0.098 ± 0.541 χ^2/NDF : 19.3/22

+ sign -0.724 ± 0.485 χ^2/NDF : 53.3/42

All: -0.462 ± 0.342 χ^2/NDF : 99.4/85

- sign -0.203 ± 0.483 χ^2/NDF : 45.6/42

diff_bpm1p03aY_rms vs Slug



Right In: 2344.756 $\pm$ 0.810 χ^2 /NDF: 5283061.0/17

Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF: 1422440.9/24

Right Out: 2168.955 $\pm$ 0.753 χ^2 /NDF: 6007828.0/19

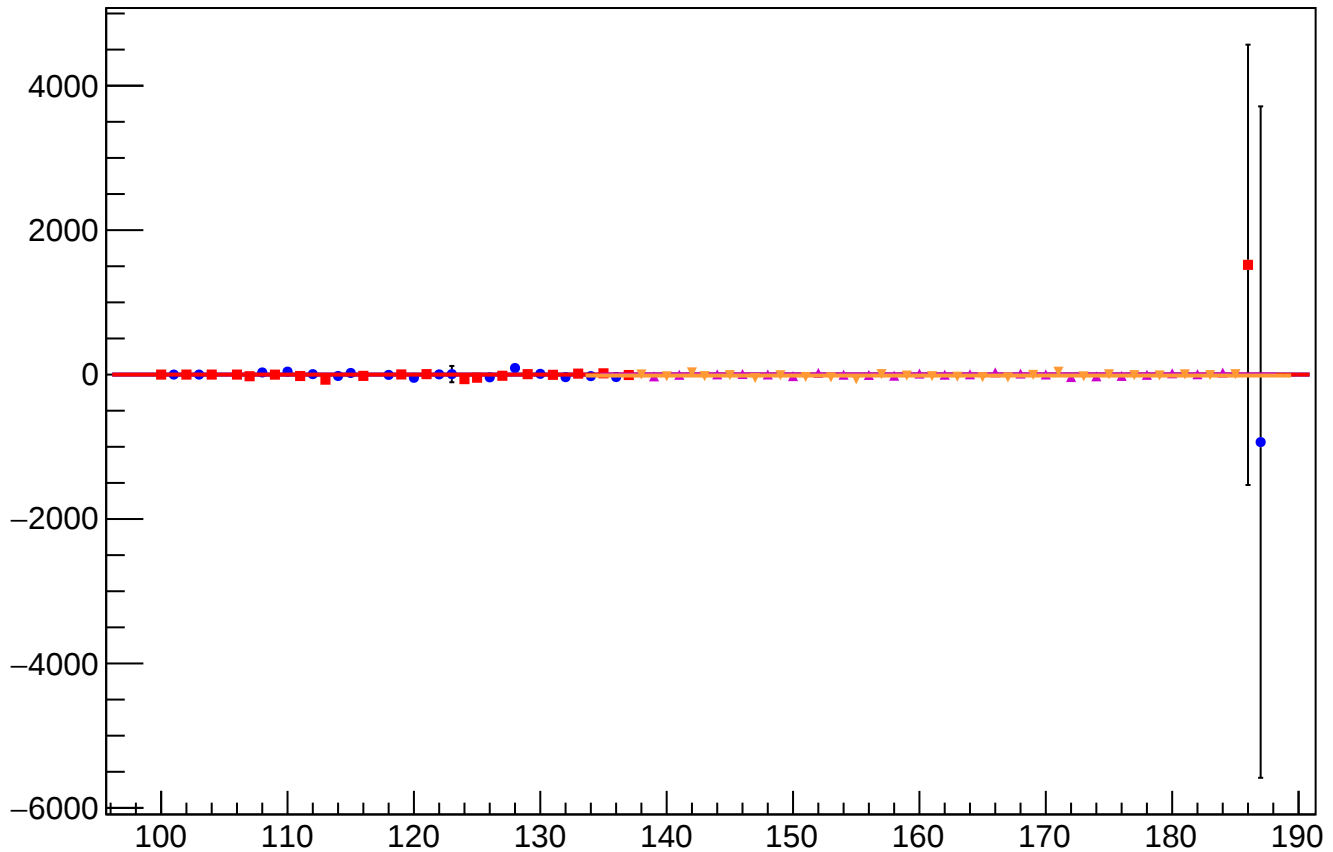
Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF: 1974869.8/22

+ sign 2244.030 $\pm$ 0.343 χ^2 /NDF: 6724313.8/42

All: 2206.509 $\pm$ 0.242 χ^2 /NDF: 14730857.0/8

- sign 2169.343 $\pm$ 0.341 χ^2 /NDF: 7982698.2/42

diff_cav4bX_mean vs Slug



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 16.6/17

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

Right Out: 0.003 $\pm$ 0.016 χ^2 /NDF: 15.8/19

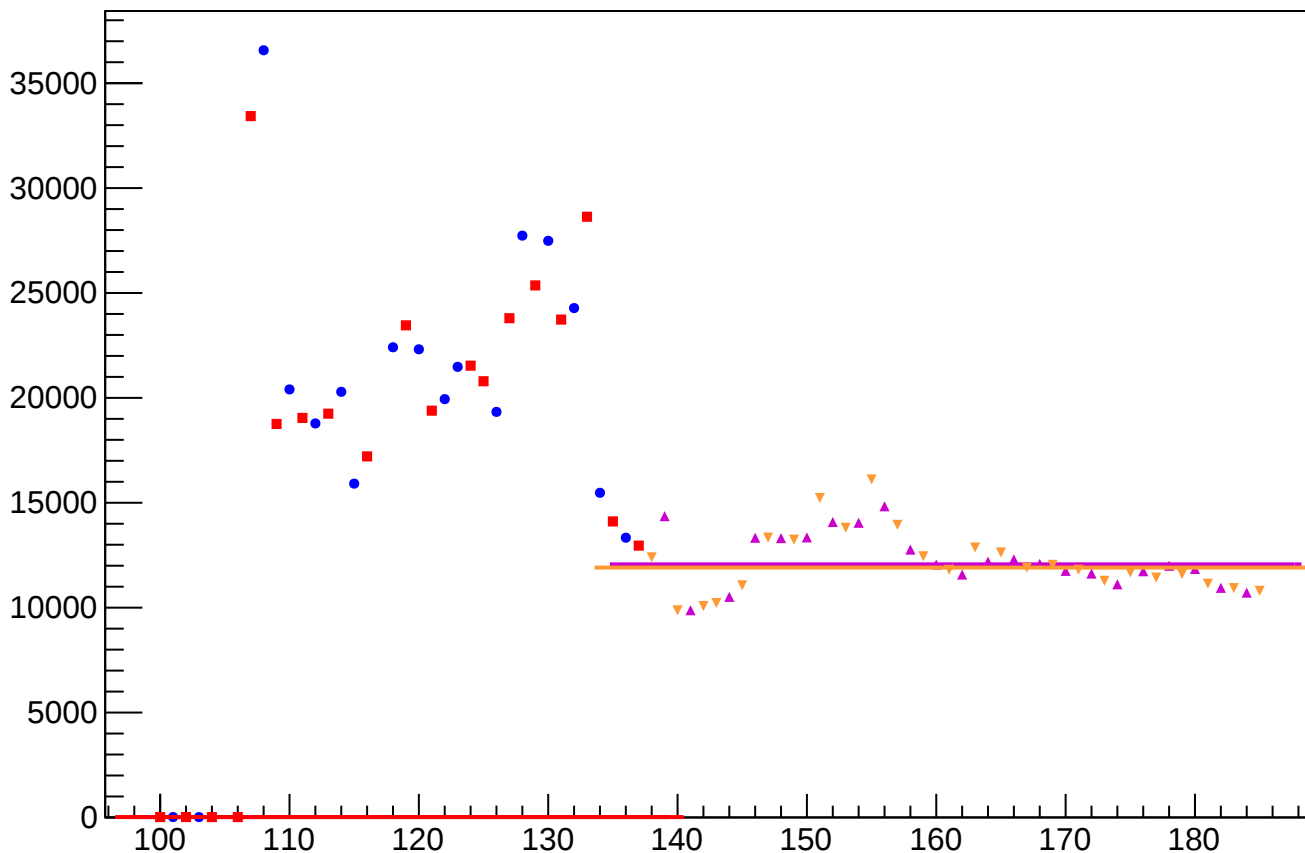
Left In: -0.459 $\pm$ 2.917 χ^2 /NDF: 29.0/22

+ sign 0.013 $\pm$ 0.017 χ^2 /NDF: 98.5/42

All: 0.008 $\pm$ 0.012 χ^2 /NDF: 143.5/85

- sign 0.003 $\pm$ 0.016 χ^2 /NDF: 44.8/42

diff_cav4bX_rms vs Slug



Right In: 18.641+/-0.012 χ^2/NDF : 10941777.3/16

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

Right Out: 18.311+/-0.011 χ^2/NDF : 11063399.8/18

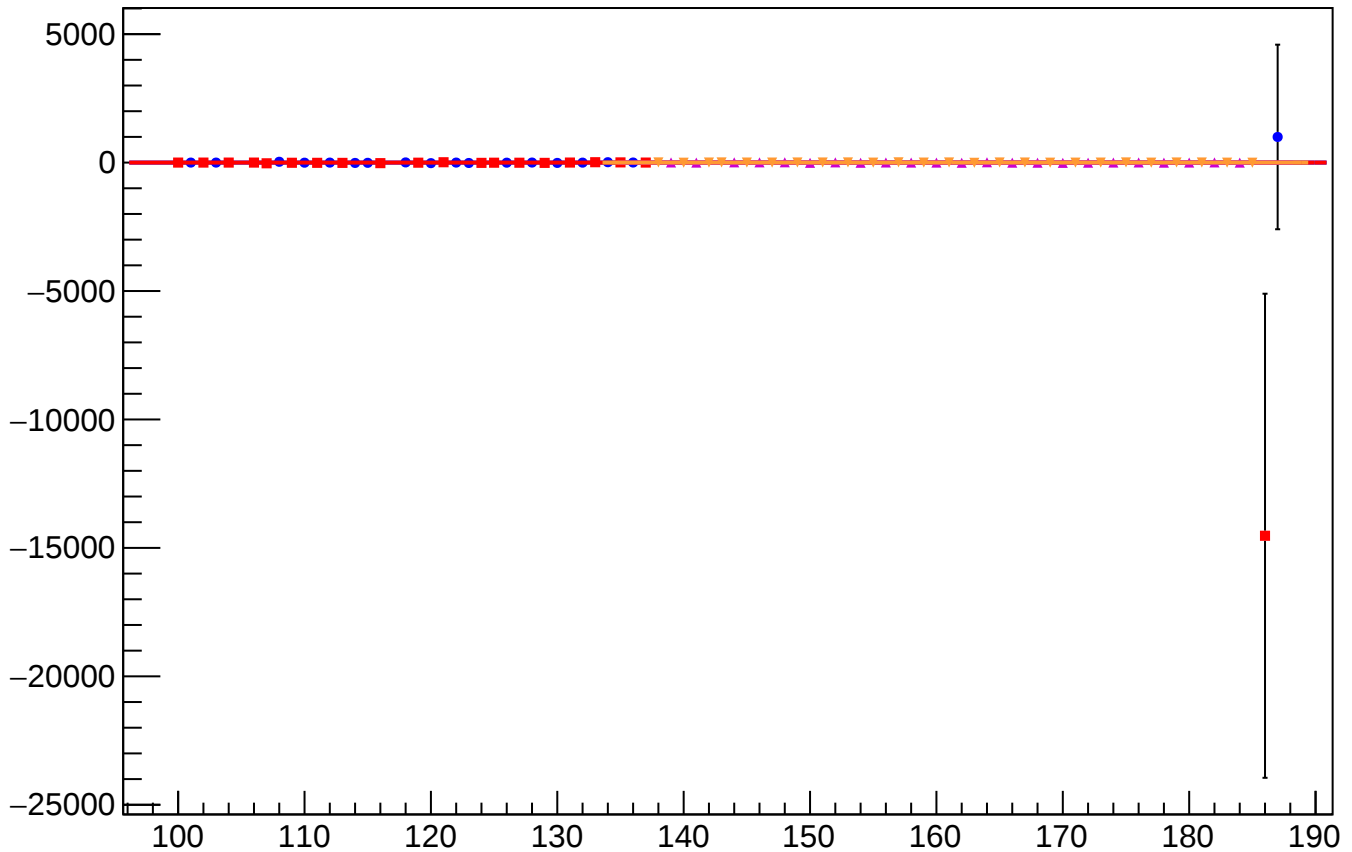
Left In: 12064.761+/-2.062 χ^2/NDF : 368452.5/22

+ sign 19.097+/-0.012 χ^2/NDF : 47481426.9/41

All: 18.871+/-0.008 χ^2/NDF : 93029815.5/83

- sign 18.677+/-0.011 χ^2/NDF : 45547757.3/41

diff_cav4bY_mean vs Slug



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 13.0/17

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

Right Out: 0.014 $\pm$ 0.009 χ^2 /NDF: 21.1/19

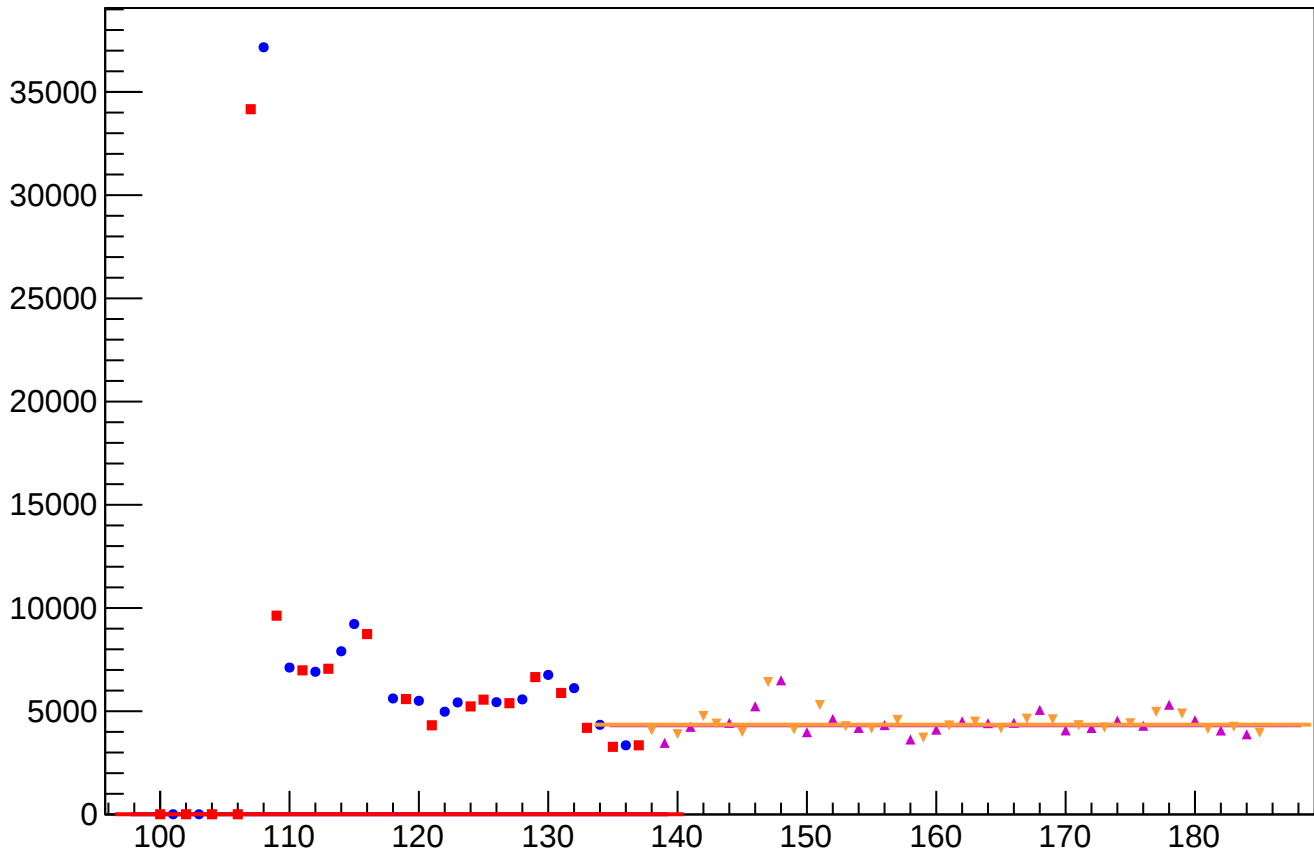
Left In: 0.939 $\pm$ 1.049 χ^2 /NDF:35.6/22

+ sign 0.001 $\pm$ 0.009 χ^2 /NDF: 33.9/42

All: 0.008 $\pm$ 0.006 χ^2 /NDF: 92.6/85

- sign 0.014 $\pm$ 0.009 χ^2 /NDF: 57.5/42

diff_cav4bY_rms vs Slug



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11067258.7/16

Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF: 383895.7/24

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11113759.9/18

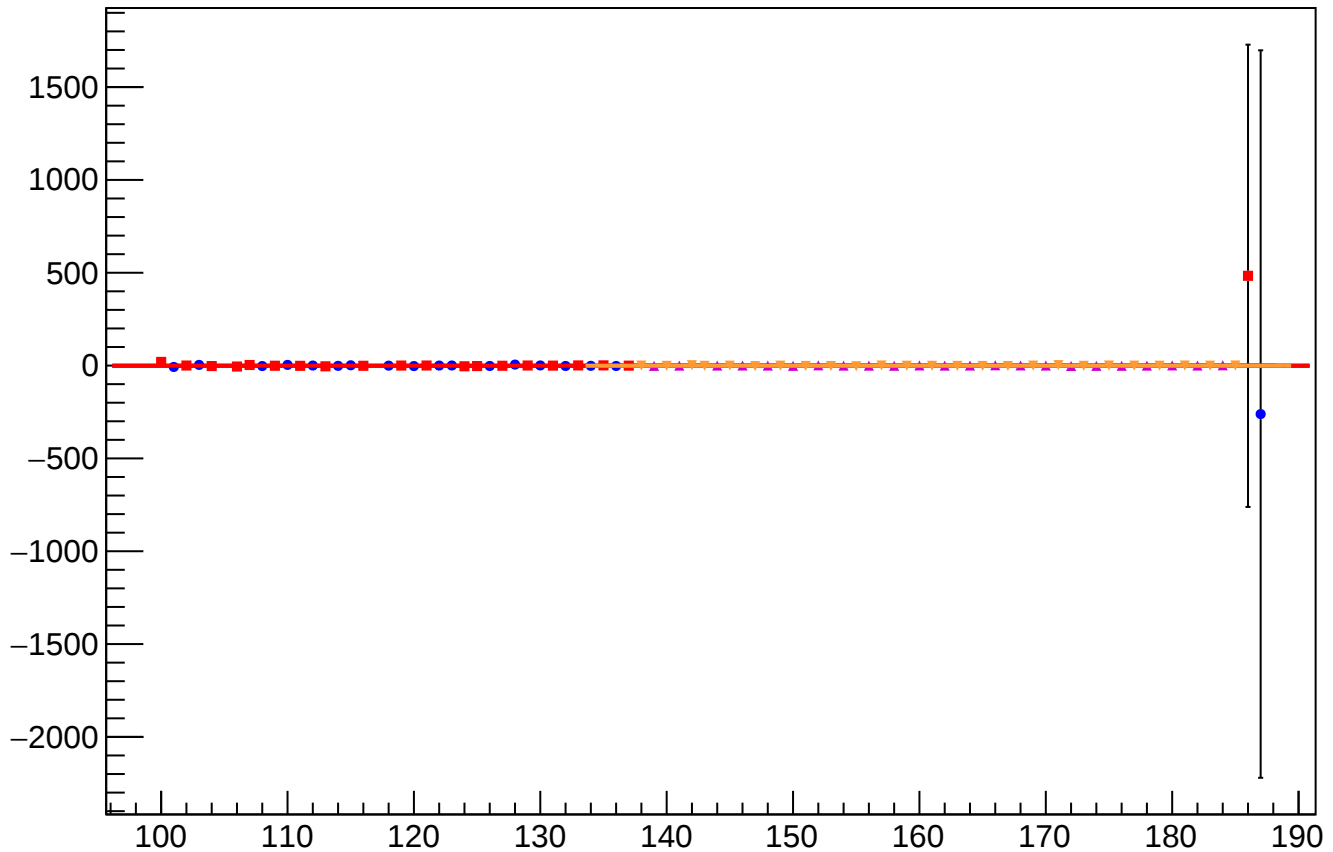
Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF: 514603.2/22

+ sign 10.290 $\pm$ 0.007 χ^2 /NDF: 47494688.2/41

All: 10.214 $\pm$ 0.004 χ^2 /NDF: 92942083.6/83

- sign 10.147 $\pm$ 0.006 χ^2 /NDF: 45447139.5/41

diff_cav4cX_mean vs Slug



Right In: -0.713 ± 0.483 χ^2/NDF : 22.7/17

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

Right Out: -0.638 ± 0.501 χ^2/NDF : 13.2/19

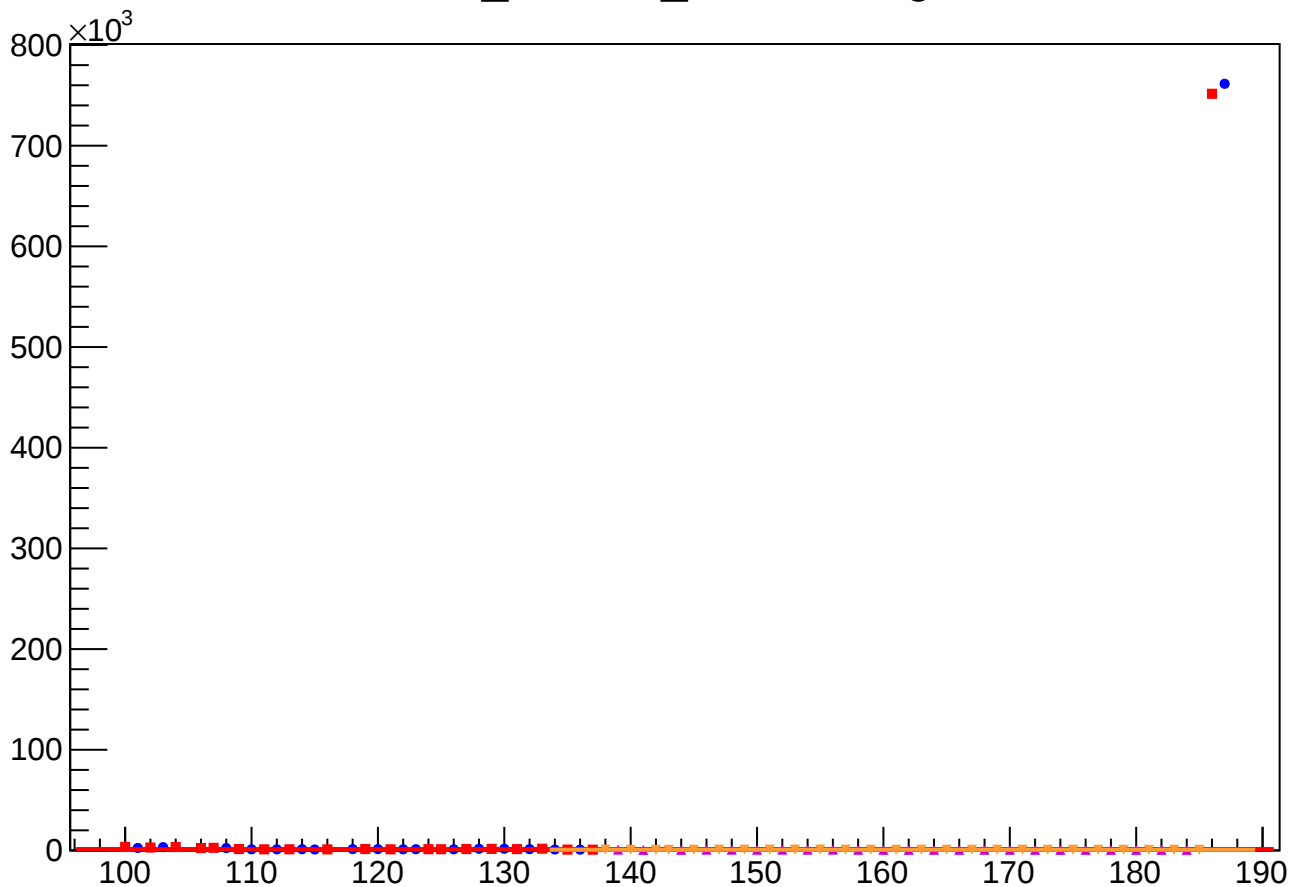
Left In: -0.018 ± 0.171 χ^2/NDF : 29.4/22

+ sign -0.769 ± 0.156 χ^2/NDF : 81.3/42

All: -0.438 ± 0.112 χ^2/NDF : 134.6/85

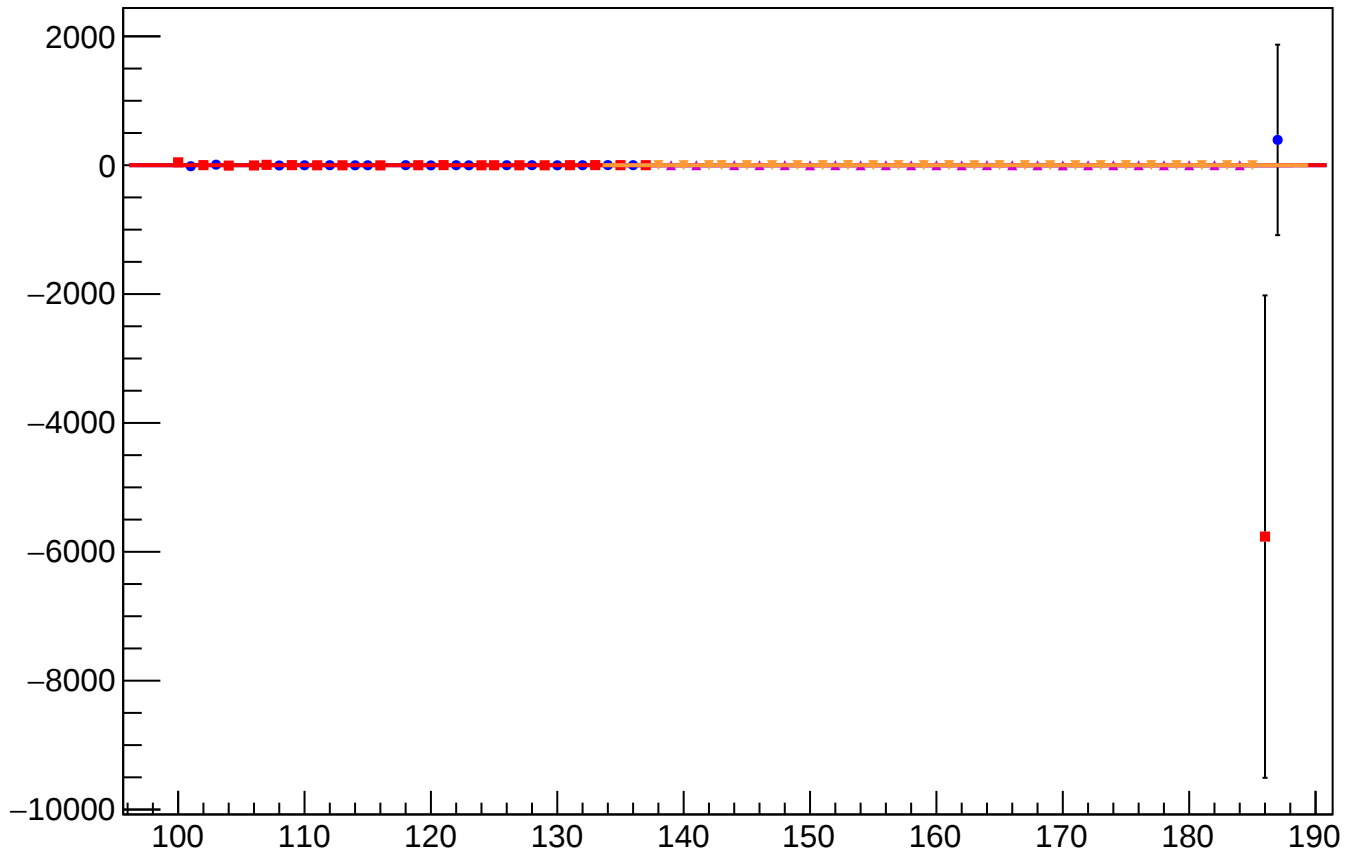
- sign -0.083 ± 0.162 χ^2/NDF : 44.0/42

diff_cav4cX_rms vs Slug



Right In: 1167.167 ± 0.342 $\chi^2/\text{NDF}: 1881425.6/17$ + sign 749.456 ± 0.110 $\chi^2/\text{NDF}: 3942861.6/42$
Left Out: 700.984 ± 0.116 $\chi^2/\text{NDF}: 392855.4/24$ All: 756.073 ± 0.079 $\chi^2/\text{NDF}: 8715362.0/85$
Right Out: 1248.031 ± 0.355 $\chi^2/\text{NDF}: 2346762.6/19$ - sign 763.199 ± 0.114 $\chi^2/\text{NDF}: 4765006.3/42$
Left In: 706.971 ± 0.121 $\chi^2/\text{NDF}: 332011.4/22$

diff_cav4cY_mean vs Slug



Right In: -0.060 $\pm$ 0.269 χ^2/NDF : 19.2/17

Left Out: 0.233 $\pm$ 0.123 χ^2/NDF : 18.0/24

Right Out: 0.280 $\pm$ 0.264 χ^2/NDF : 22.9/19

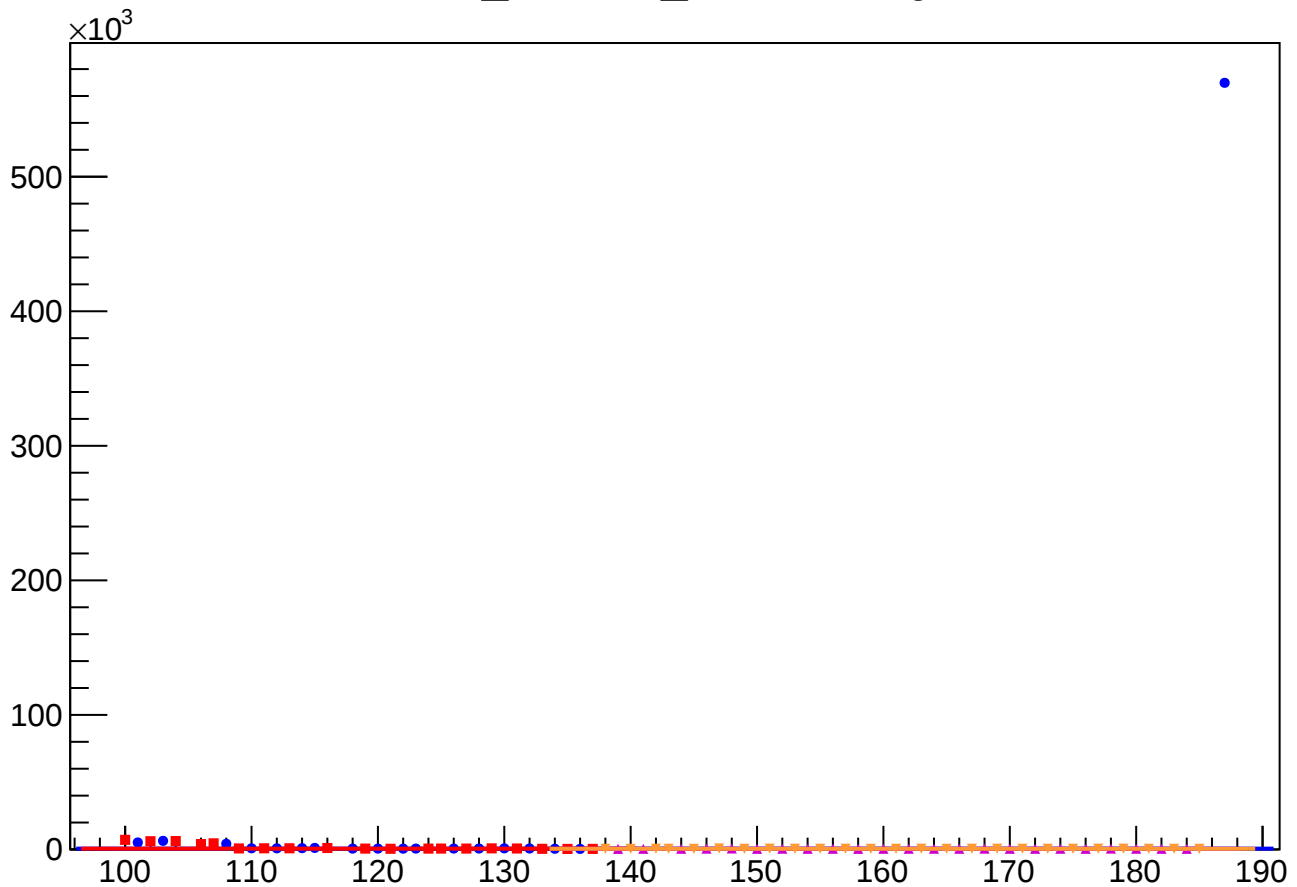
Left In: 0.126 $\pm$ 0.126 χ^2/NDF : 35.0/22

+ sign 0.183 $\pm$ 0.112 χ^2/NDF : 38.2/42

All: 0.169 $\pm$ 0.080 χ^2/NDF : 96.3/85

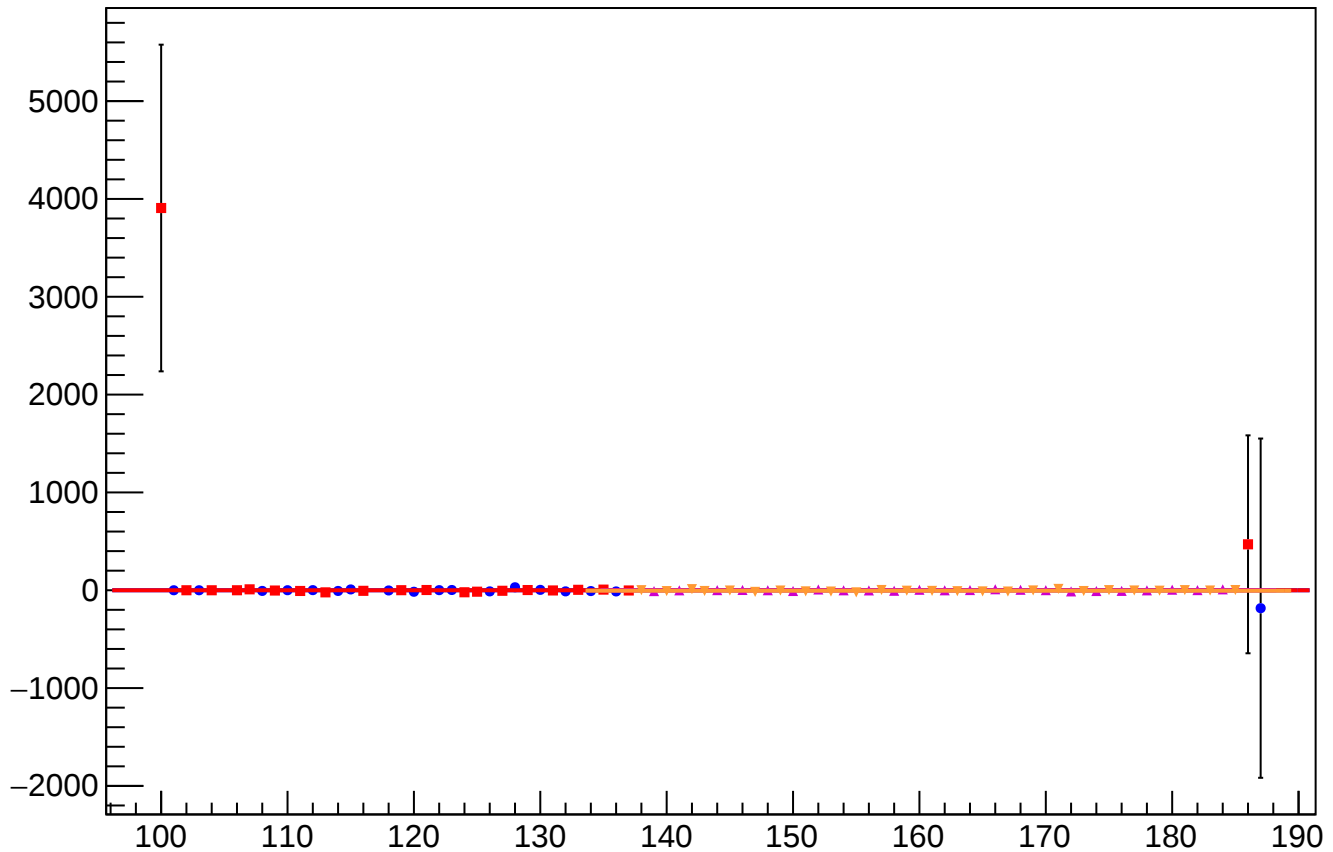
- sign 0.154 $\pm$ 0.114 χ^2/NDF : 58.1/42

diff_cav4cY_rms vs Slug



Right In: 609.404 $\pm$ 0.190	χ^2 /NDF: 3430909.1/17	+ sign 537.216 $\pm$ 0.079	χ^2 /NDF: 3935267.8/42
Left Out: 522.220 $\pm$ 0.087	χ^2 /NDF: 330405.3/24	All: 536.220 $\pm$ 0.056	χ^2 /NDF: 8057754.8/84
Right Out: 598.820 $\pm$ 0.187	χ^2 /NDF: 3552236.2/18	- sign 535.183 $\pm$ 0.081	χ^2 /NDF: 4122161.6/41
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 : 16.0/17

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

Right Out: -0.027 ± 0.020 χ^2/NDF : 17.6/19

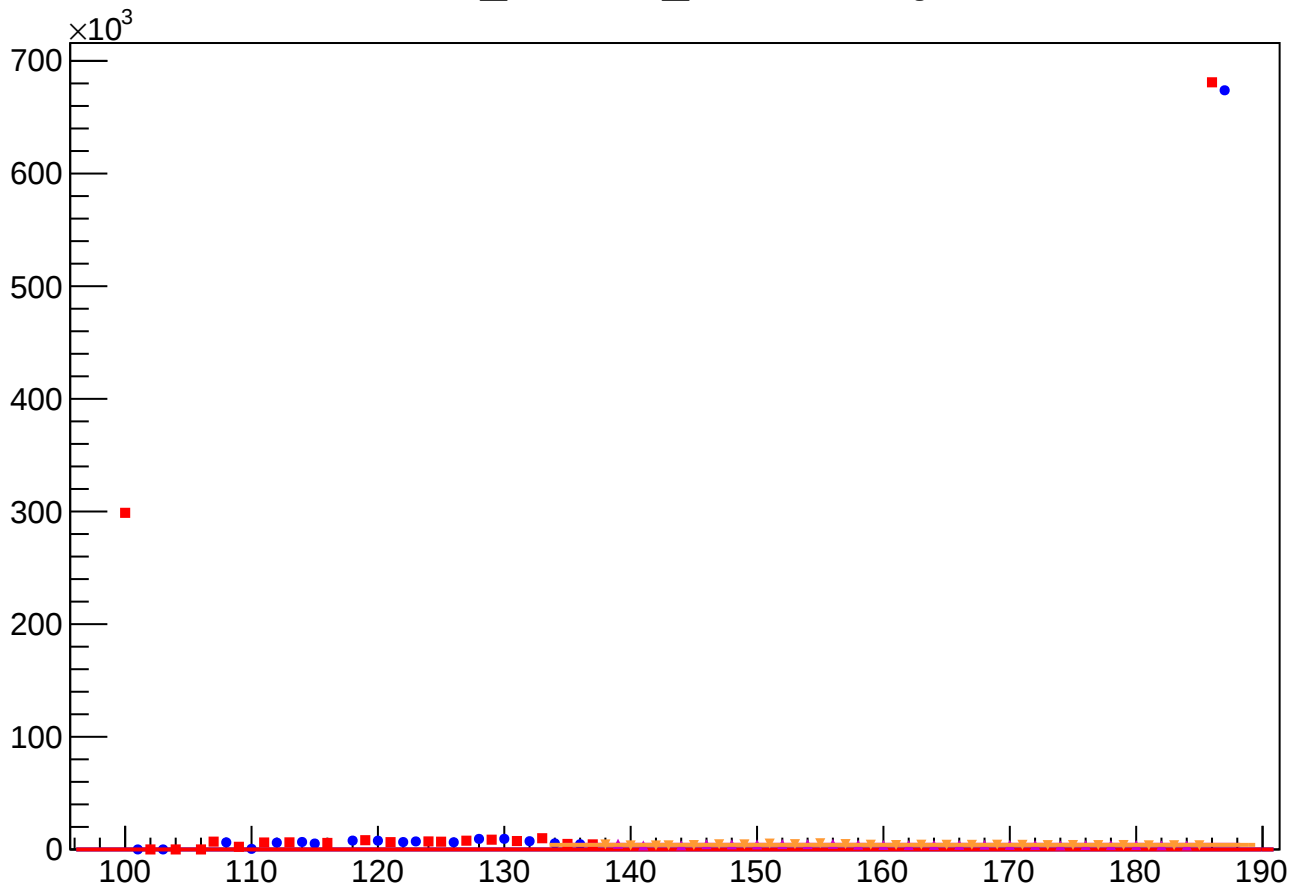
Left In: -0.183 ± 0.994 χ^2/NDF : 29.5/22

+ sign -0.024 ± 0.021 χ^2/NDF : 96.1/42

All: -0.025 ± 0.014 χ^2/NDF : 143.2/85

- sign -0.027 ± 0.020 χ^2/NDF : 47.1/42

diff_cav4dX_rms vs Slug



Right In: 17.339 $\pm$ 0.015 χ^2 /NDF: 10759446.0/17

Left Out: 4075.147 $\pm$ 0.677 χ^2 /NDF: 417511.0/24

Right Out: 17.268 $\pm$ 0.014 χ^2 /NDF: 11513263.6/19

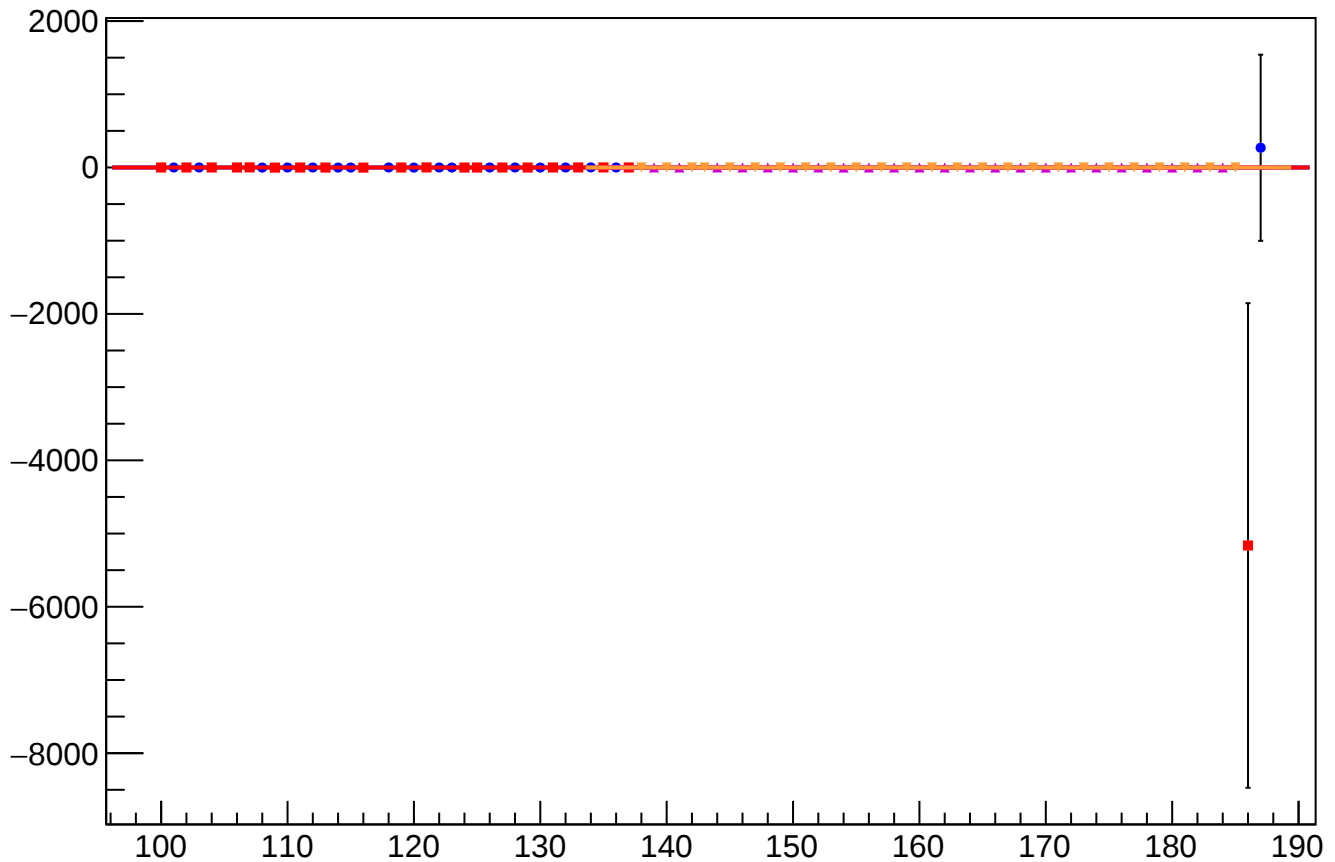
Left In: 4113.993 $\pm$ 0.703 χ^2 /NDF: 349160.6/22

+ sign 19.254 $\pm$ 0.015 χ^2 /NDF: 47109613.1/42

All: 19.062 $\pm$ 0.010 χ^2 /NDF: 92928341.4/85

- sign 18.889 $\pm$ 0.014 χ^2 /NDF: 45818404.2/42

diff_cav4dY_mean vs Slug



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 13.6/17

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

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 20.6/19

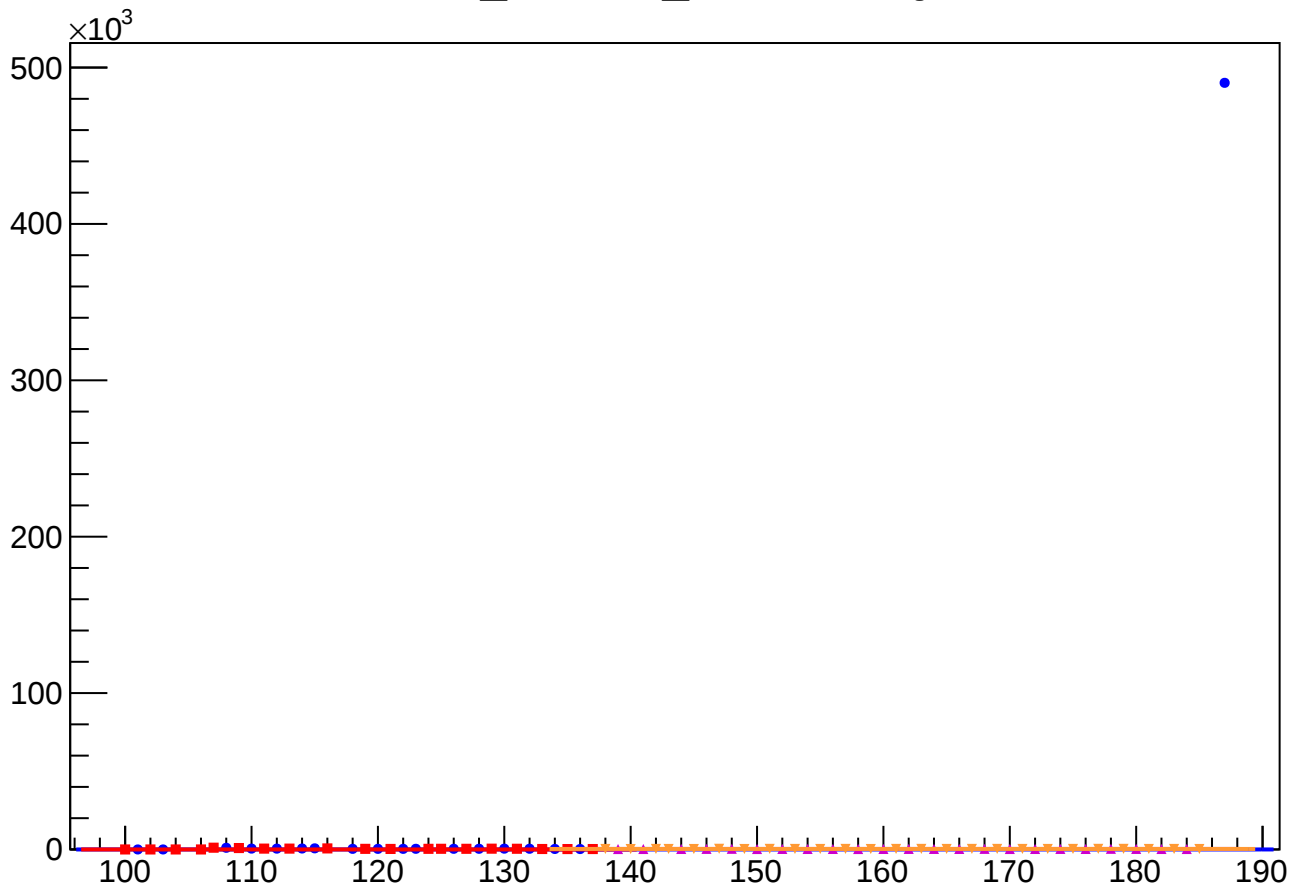
Left In: 0.080 $\pm$ 0.079 χ^2 /NDF: 34.6/22

+ sign 0.000 $\pm$ 0.002 χ^2 /NDF: 34.7/42

All: 0.001 $\pm$ 0.001 χ^2 /NDF: 91.0/85

- sign 0.001 $\pm$ 0.002 χ^2 /NDF: 56.3/42

diff_cav4dY_rms vs Slug



Right In: 1.699 ± 0.001 χ^2/NDF : 11303807.8/17

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

Right Out: 1.728 ± 0.001 χ^2/NDF : 10697829.6/18

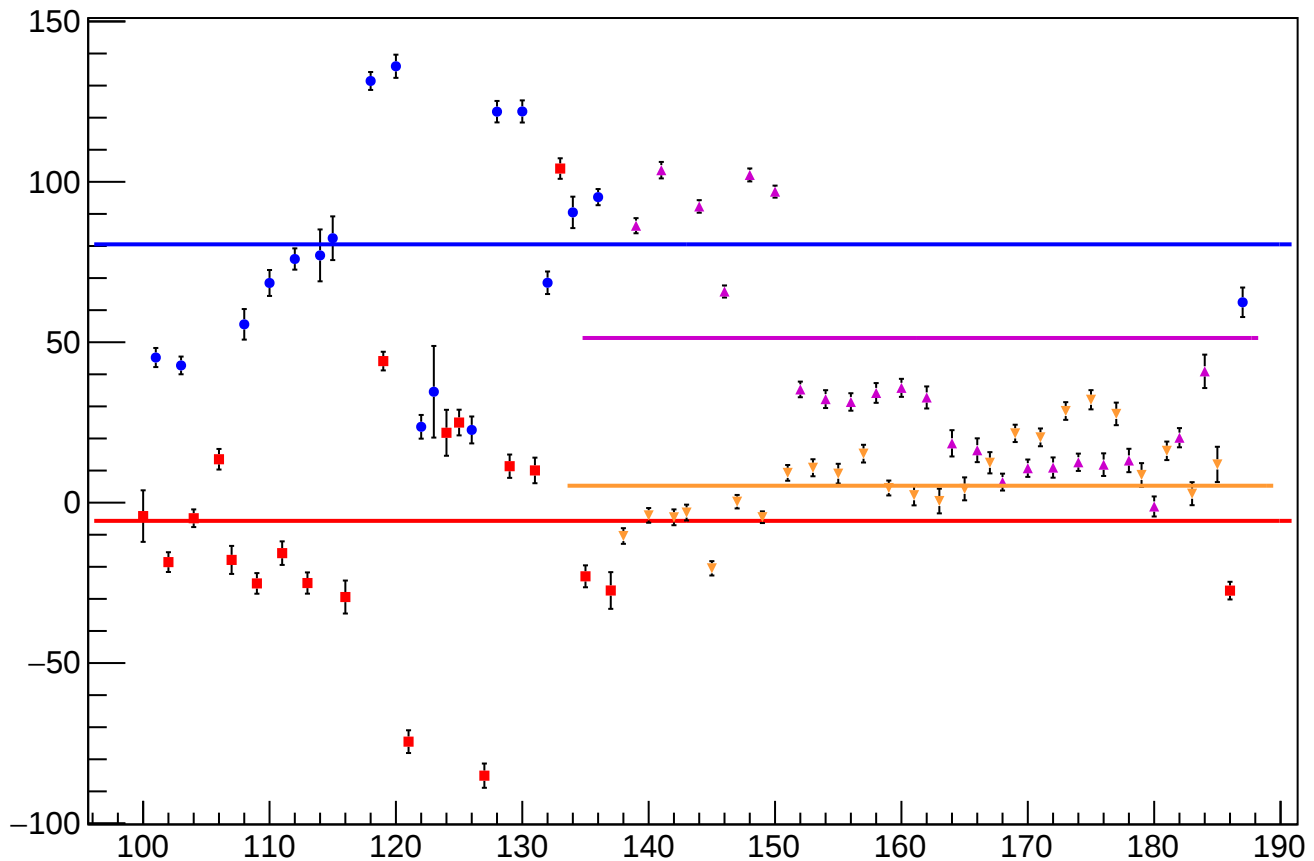
Left In: 325.626 ± 0.056 χ^2/NDF : 413350.0/22

+ sign 1.926 ± 0.001 χ^2/NDF : 47515716.1/42

All: 1.925 ± 0.001 χ^2/NDF : 92351479.5/84

- sign 1.924 ± 0.001 χ^2/NDF : 44835762.0/41

diff_bpm0i01X_mean vs Slug



Right In: 80.516 ± 0.871 χ^2/NDF : 1734.2/17

Left Out: 5.276 ± 0.544 χ^2/NDF : 556.2/24

Right Out: -5.679 ± 0.807 χ^2/NDF : 2661.5/19

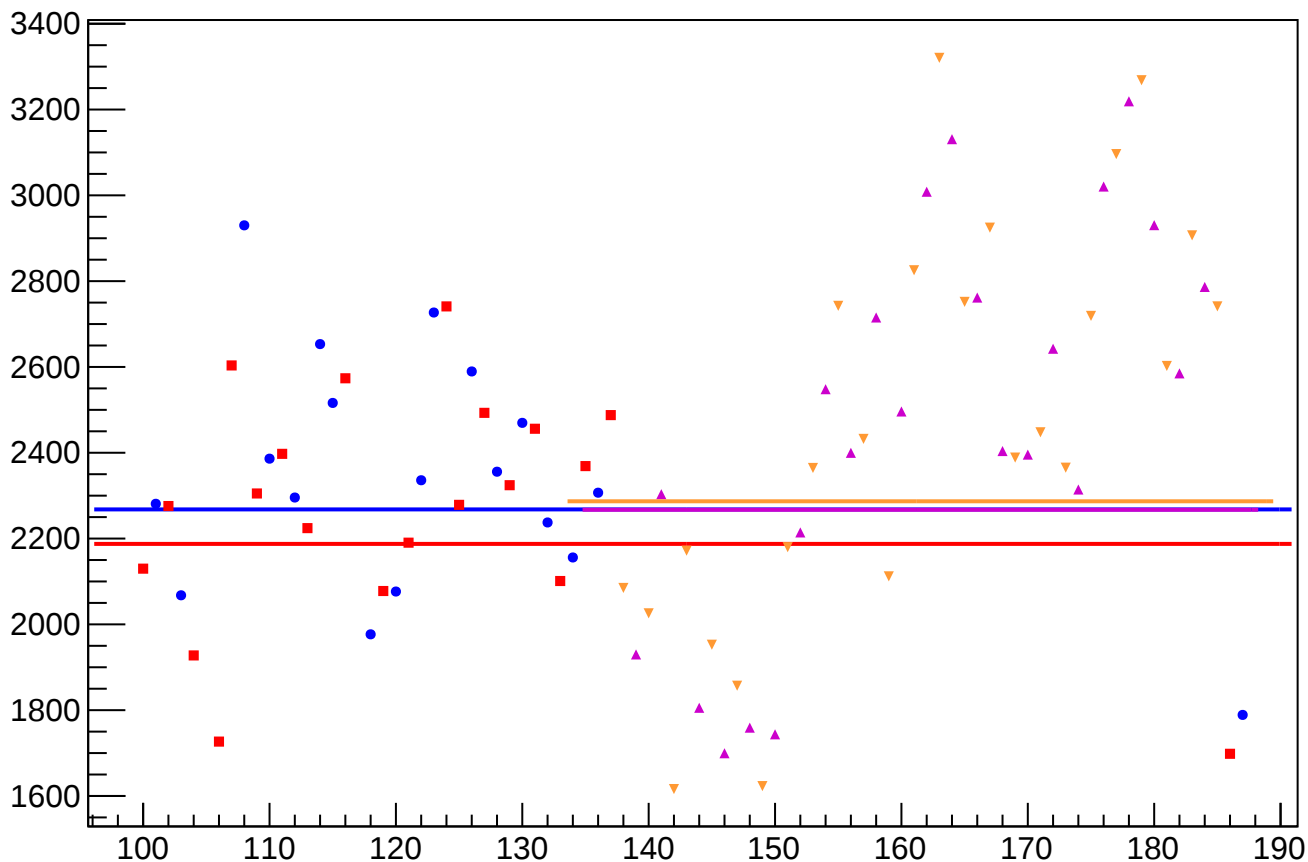
Left In: 51.328 ± 0.558 χ^2/NDF : 4257.8/22

+ sign 26.394 ± 0.462 χ^2/NDF : 7656.3/42

All: 29.648 ± 0.326 χ^2/NDF : 18049.9/85

- sign -32.868 ± 0.459 χ^2/NDF : 10294.8/42

diff_bpm0i01X_rms vs Slug



Right In: 2267.948 $\pm$ 0.616 χ^2 /NDF: 131640.5/17

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

Right Out: 2187.554 $\pm$ 0.571 χ^2 /NDF: 216275.6/19

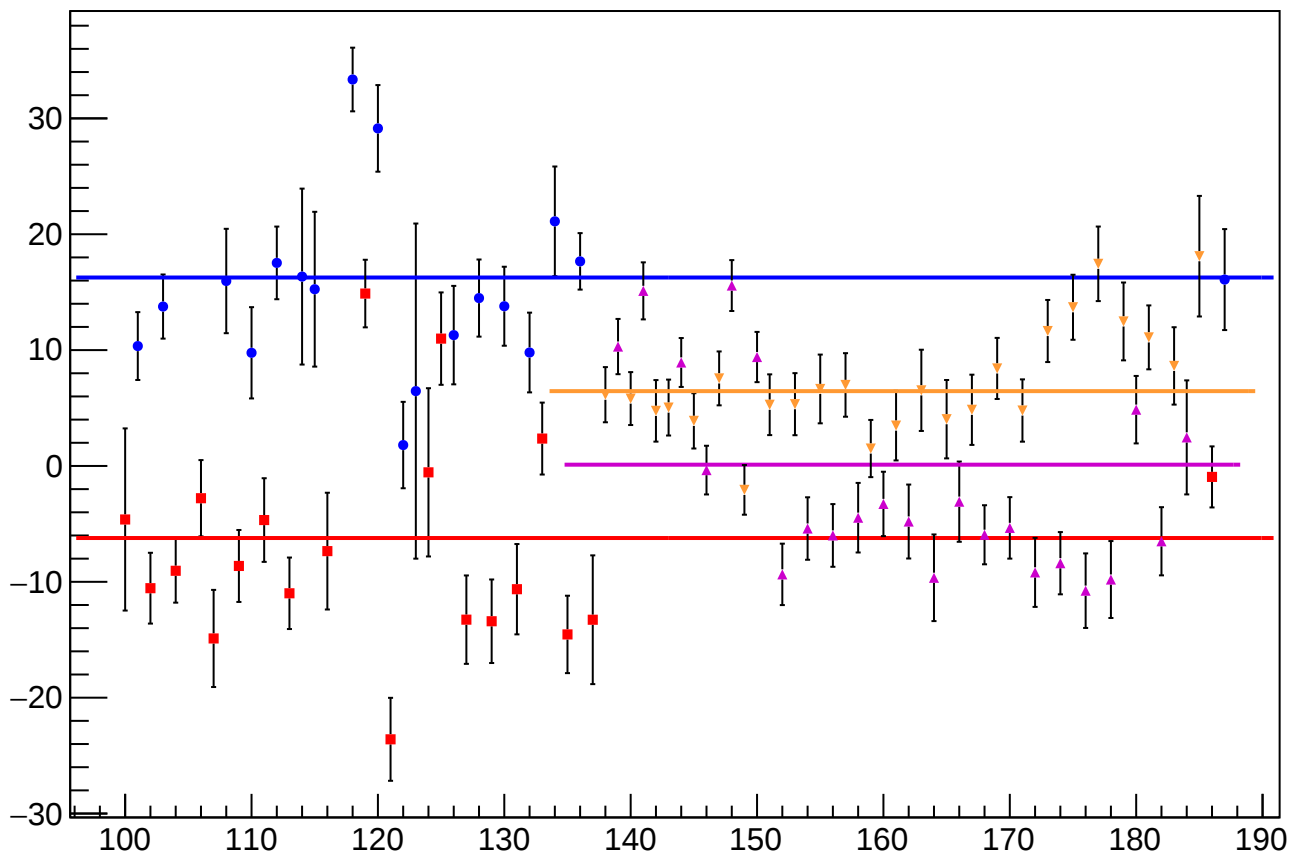
Left In: 2267.097 $\pm$ 0.395 χ^2 /NDF:1313364.4/22

+ sign 2281.560 $\pm$ 0.326 χ^2 /NDF: 1492810.2/42

All: 2261.345 $\pm$ 0.230 χ^2 /NDF: 3043228.2/85

- sign 2241.339 $\pm$ 0.325 χ^2 /NDF: 1542784.0/42

diff_bpm0i01Y_mean vs Slug



Right In: 16.266 ± 0.856 χ^2/NDF : 81.0/17

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

Right Out: -6.219 ± 0.794 χ^2/NDF : 134.9/19

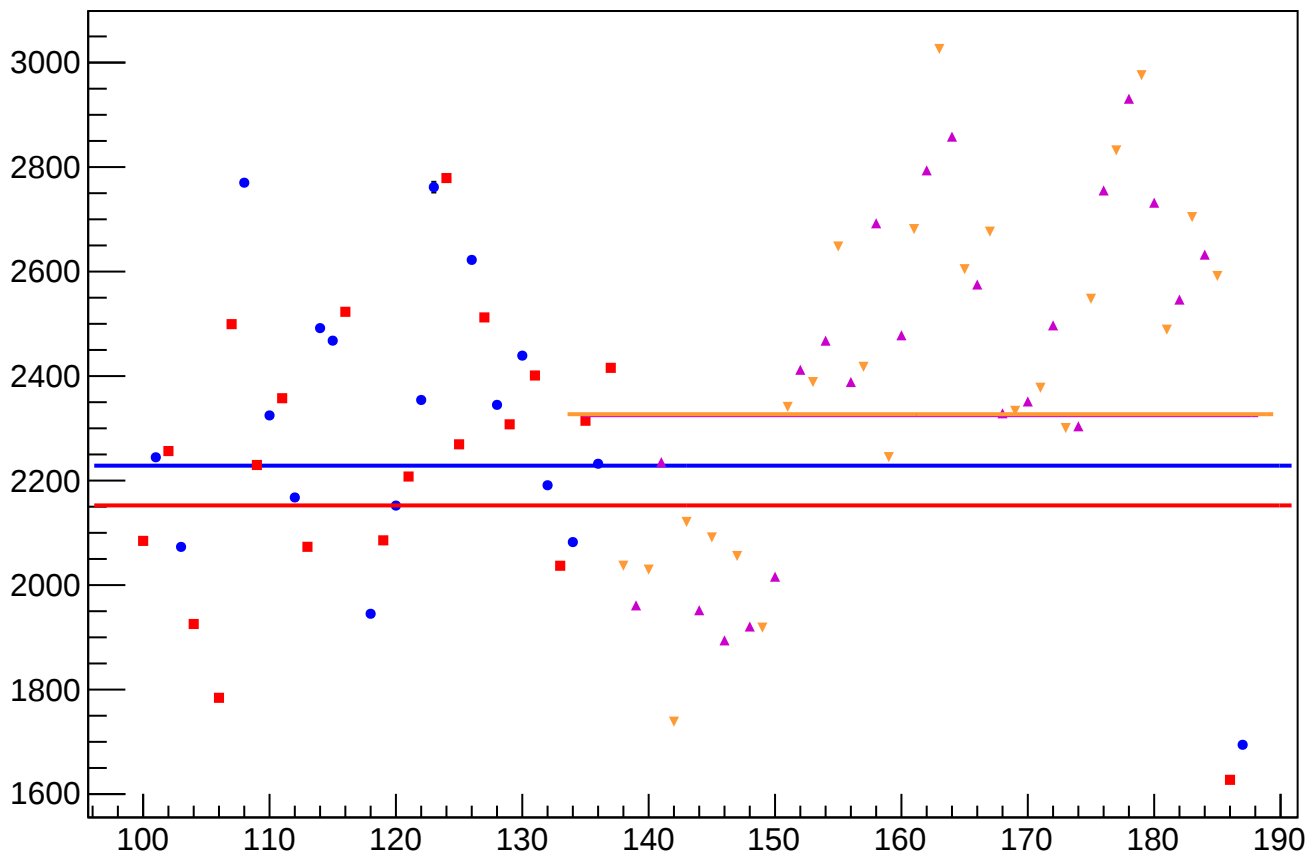
Left In: 0.110 ± 0.565 χ^2/NDF : 234.6/22

+ sign 9.306 ± 0.461 χ^2/NDF : 232.9/42

All: 3.632 ± 0.326 χ^2/NDF : 946.6/85

- sign -2.020 ± 0.460 χ^2/NDF : 411.7/42

diff_bpm0i01Y_rms vs Slug



Right In: 2228.560 $\pm$ 0.605 χ^2 /NDF: 128761.6/17

Left Out: 2327.044 $\pm$ 0.387 χ^2 /NDF: 646706.7/24

Right Out: 2152.466 $\pm$ 0.561 χ^2 /NDF: 213824.0/19

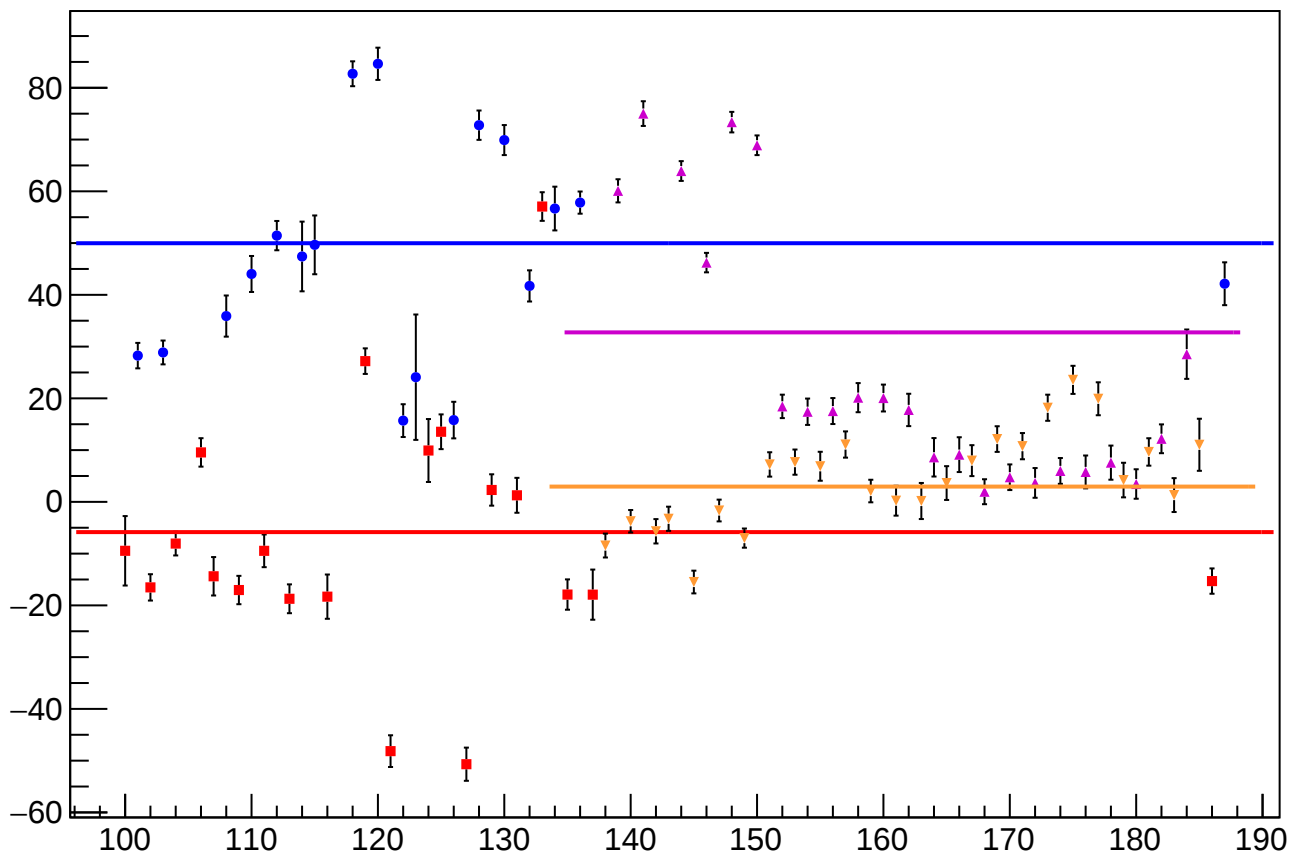
Left In: 2325.175 $\pm$ 0.400 χ^2 /NDF: 610729.2/22

+ sign 2298.445 $\pm$ 0.326 χ^2 /NDF: 794256.6/42

All: 2282.718 $\pm$ 0.230 χ^2 /NDF: 1686307.7/85

- sign 2267.053 $\pm$ 0.326 χ^2 /NDF: 887409.8/42

diff_bpm0i01aX_mean vs Slug



Right In: 49.971 ± 0.740 χ^2/NDF : 841.2/17

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

Right Out: -5.842 ± 0.686 χ^2/NDF : 1275.6/19

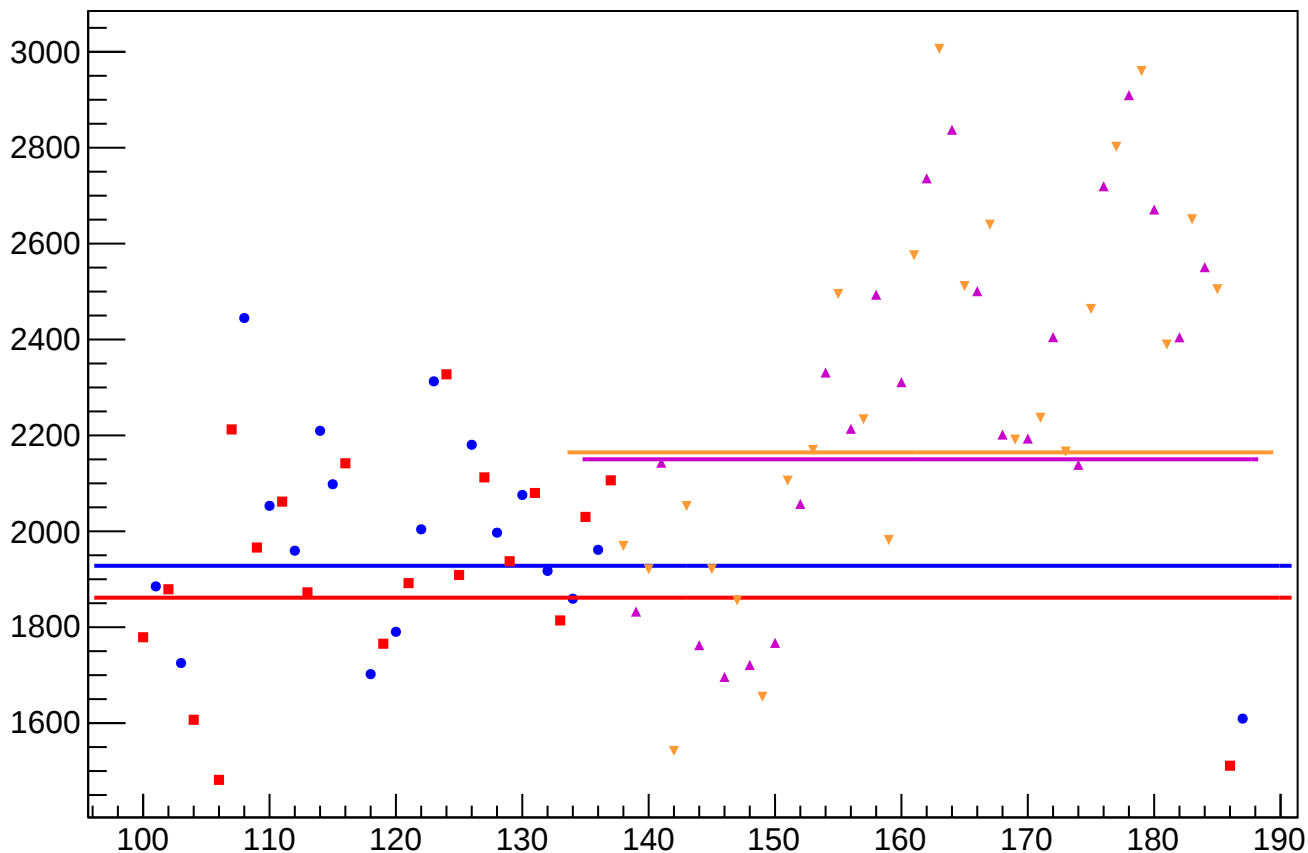
Left In: 32.745 ± 0.526 χ^2/NDF : 2632.5/22

+ sign 18.172 ± 0.421 χ^2/NDF : 3909.8/42

All: 18.314 ± 0.296 χ^2/NDF : 9810.6/85

- sign 18.453 ± 0.417 χ^2/NDF : 5900.5/42

diff_bpm0i01aX_rms vs Slug



Right In: 1928.090+/-0.523 χ^2/NDF : 112257.0/17

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

Right Out: 1861.568+/-0.485 χ^2/NDF : 191247.2/19

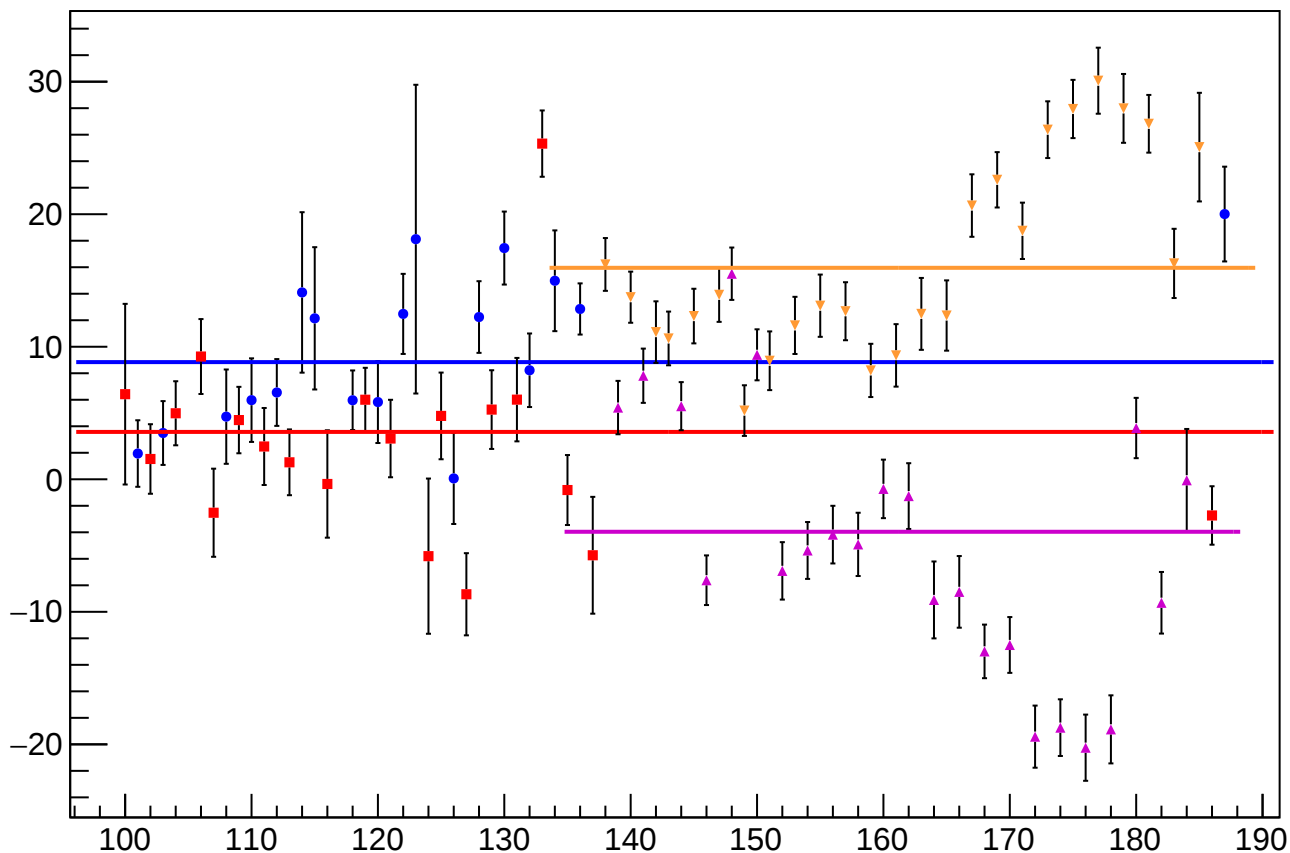
Left In: 2150.190+/-0.372 χ^2/NDF : 911849.7/22

+ sign 2088.022+/-0.298 χ^2/NDF : 1216015.2/42

All: 2065.466+/-0.210 χ^2/NDF : 2553434.9/85

- sign 2043.286+/-0.295 χ^2/NDF : 1326032.7/42

diff_bpm0i01aY_mean vs Slug



Right In: 8.841 ± 0.699 $\chi^2/\text{NDF}: 55.9/17$

Left Out: 15.956 ± 0.447 $\chi^2/\text{NDF}: 245.2/24$

Right Out: 3.574 ± 0.653 $\chi^2/\text{NDF}: 121.9/19$

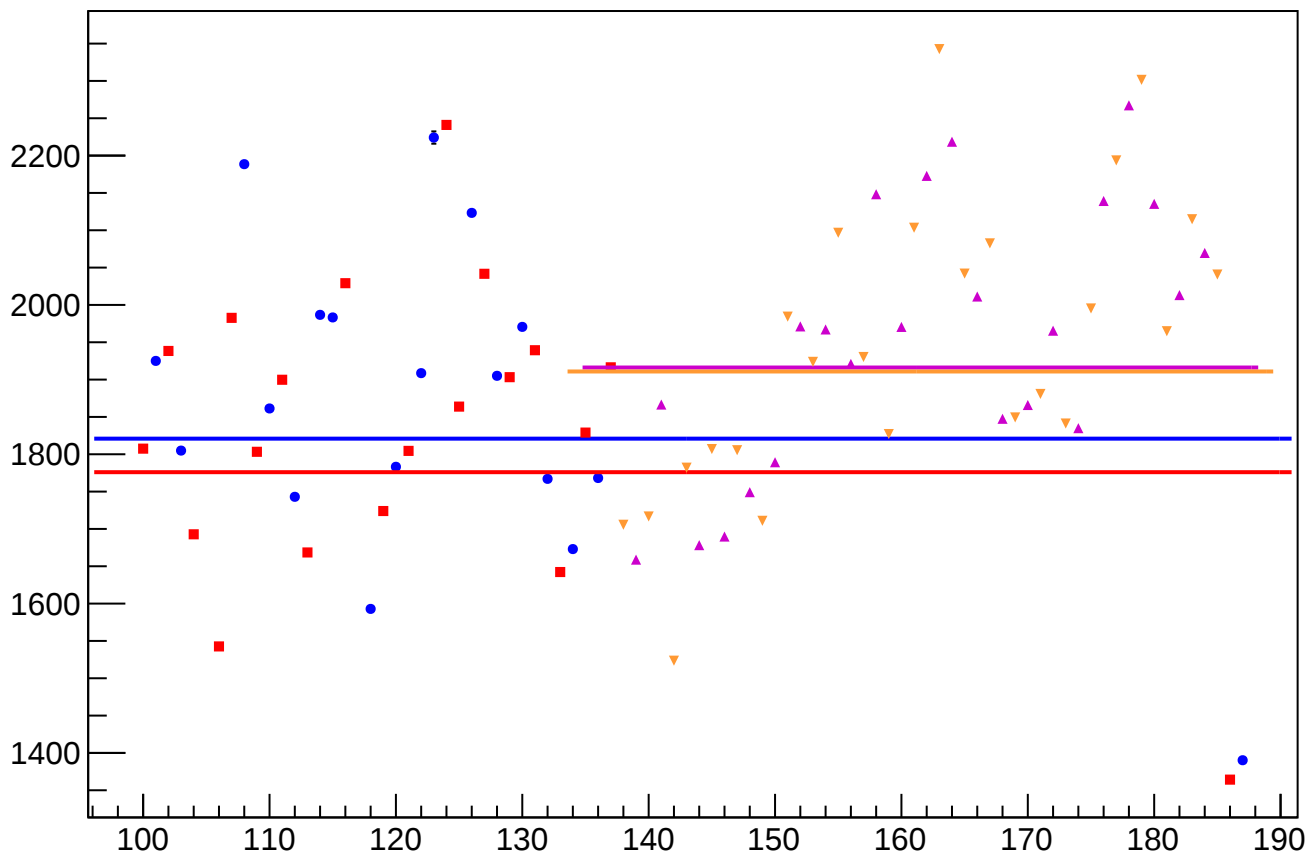
Left In: -3.960 ± 0.463 $\chi^2/\text{NDF}: 464.9/22$

+ sign 13.887 ± 0.377 $\chi^2/\text{NDF}: 374.6/42$

All: 6.240 ± 0.267 $\chi^2/\text{NDF}: 1875.7/85$

- sign -1.441 ± 0.378 $\chi^2/\text{NDF}: 675.4/42$

diff_bpm0i01aY_rms vs Slug



Right In: 1820.909 $\pm$ 0.494 χ^2 /NDF: 113004.4/17

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

Right Out: 1775.996 $\pm$ 0.462 χ^2 /NDF: 164073.8/19

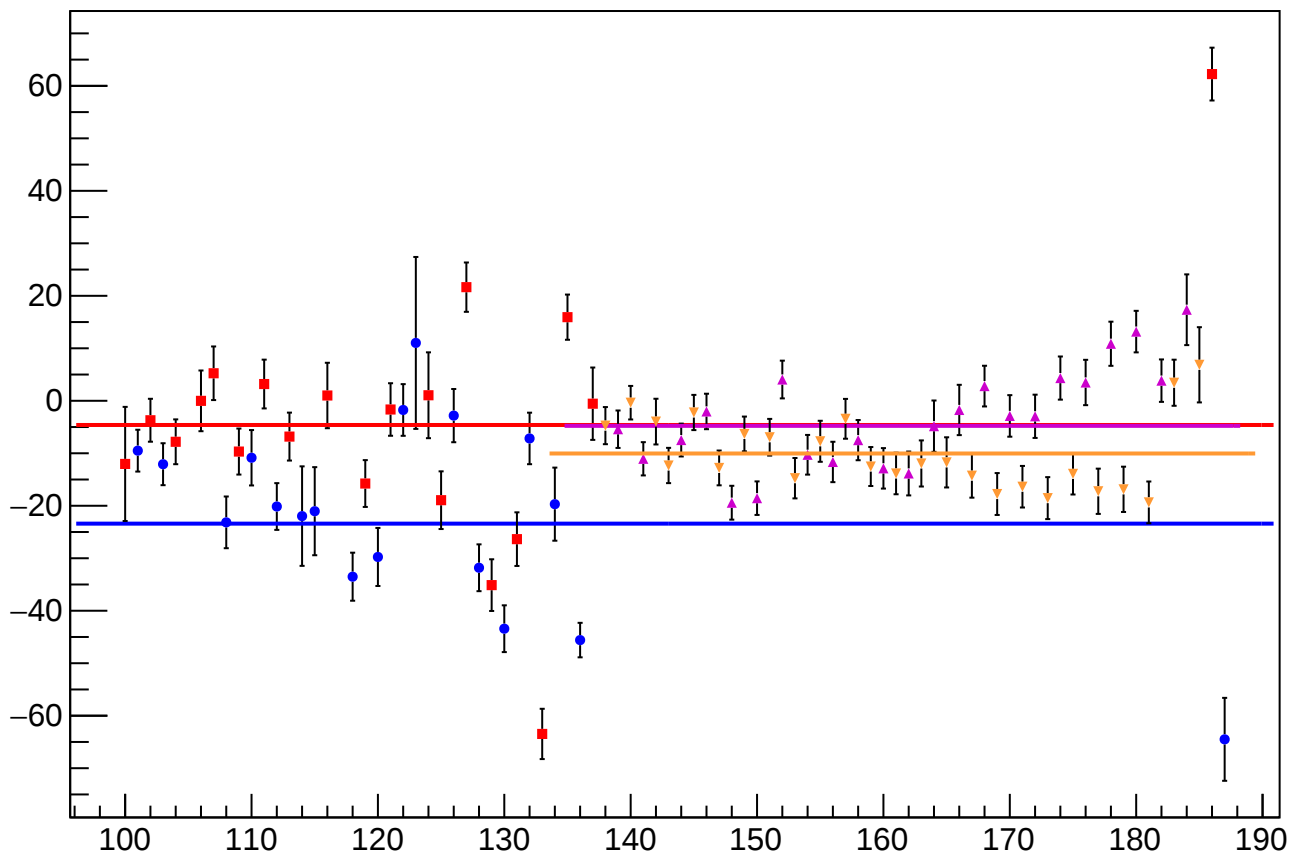
Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF: 274285.3/22

+ sign 1884.700 $\pm$ 0.266 χ^2 /NDF: 465483.9/42

All: 1877.010 $\pm$ 0.189 χ^2 /NDF: 966853.7/85

- sign 1869.286 $\pm$ 0.267 χ^2 /NDF: 499699.7/42

diff_bpm0l01X_mean vs Slug



Right In: -23.406 $\pm$ 1.183 χ^2/NDF : 180.5/17

Left Out: -10.042 $\pm$ 0.776 χ^2/NDF : 67.1/24

Right Out: -4.609 $\pm$ 1.129 χ^2/NDF : 462.8/19

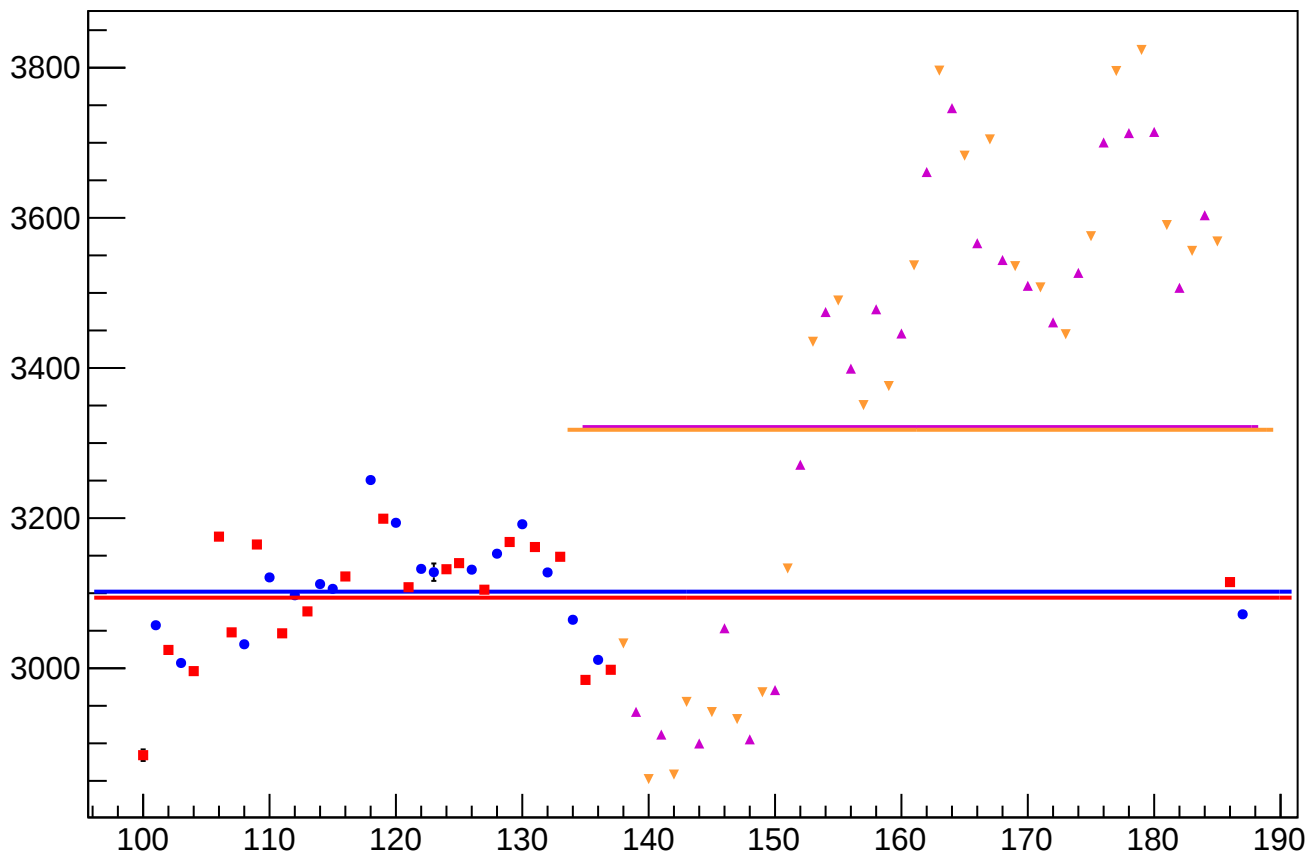
Left In: -4.774 $\pm$ 0.800 χ^2/NDF : 128.5/22

+ sign -14.063 $\pm$ 0.649 χ^2/NDF : 336.8/42

All: -9.419 $\pm$ 0.460 χ^2/NDF : 1031.2/85

- sign -4.719 $\pm$ 0.653 χ^2/NDF : 591.4/42

diff_bpm0l01X_rms vs Slug



Right In: 3102.052 $\pm$ 0.837 χ^2 /NDF: 7367.5/17

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

Right Out: 3094.054 $\pm$ 0.798 χ^2 /NDF: 7838.4/19

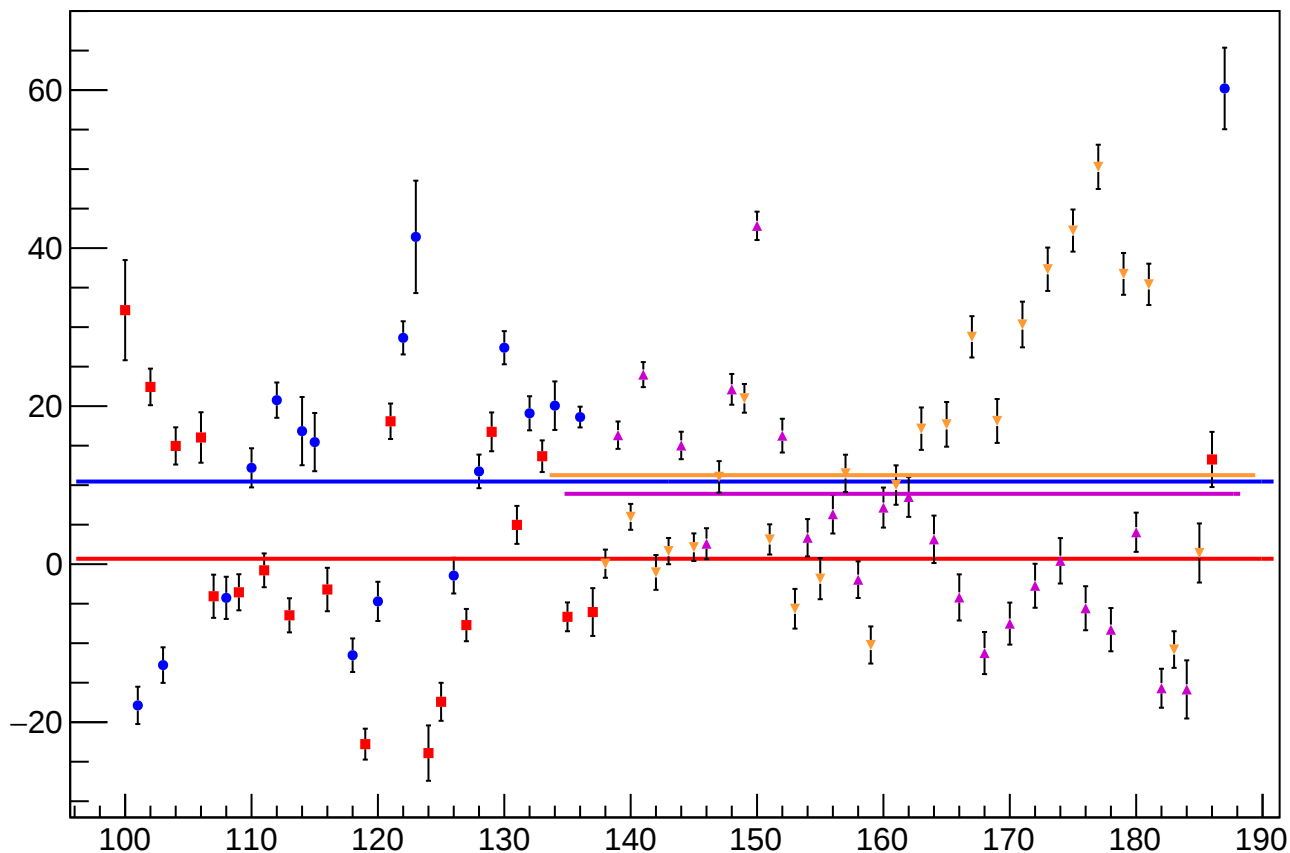
Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF:284334.2/22

+ sign 3252.806 $\pm$ 0.459 χ^2 /NDF: 390681.7/42

All: 3249.055 $\pm$ 0.326 χ^2 /NDF: 736901.1/85

- sign 3245.259 $\pm$ 0.462 χ^2 /NDF: 346085.0/42

diff_bpm0l01Y_mean vs Slug



Right In: 10.459 ± 0.557 χ^2/NDF : 795.6/17

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

Right Out: 0.686 ± 0.541 χ^2/NDF : 641.3/19

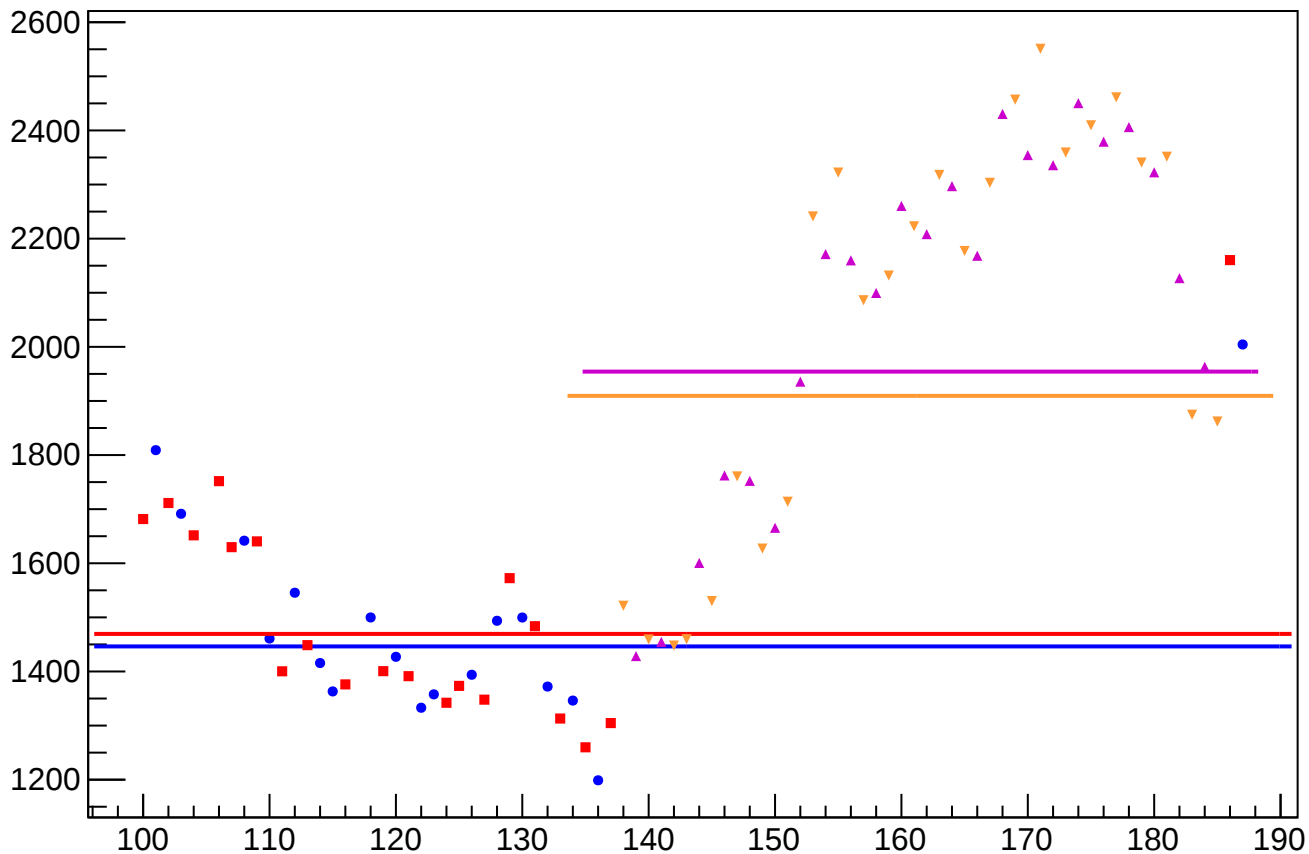
Left In: 8.905 ± 0.478 χ^2/NDF : 936.3/22

+ sign 10.945 ± 0.352 χ^2/NDF : 1938.7/42

All: 8.173 ± 0.251 χ^2/NDF : 3772.0/85

- sign 5.307 ± 0.358 χ^2/NDF : 1707.3/42

diff_bpm0l01Y_rms vs Slug



Right In: 1446.313 $\pm$ 0.394 χ^2 /NDF: 196524.2/17

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

Right Out: 1469.445 $\pm$ 0.383 χ^2 /NDF: 218610.4/19

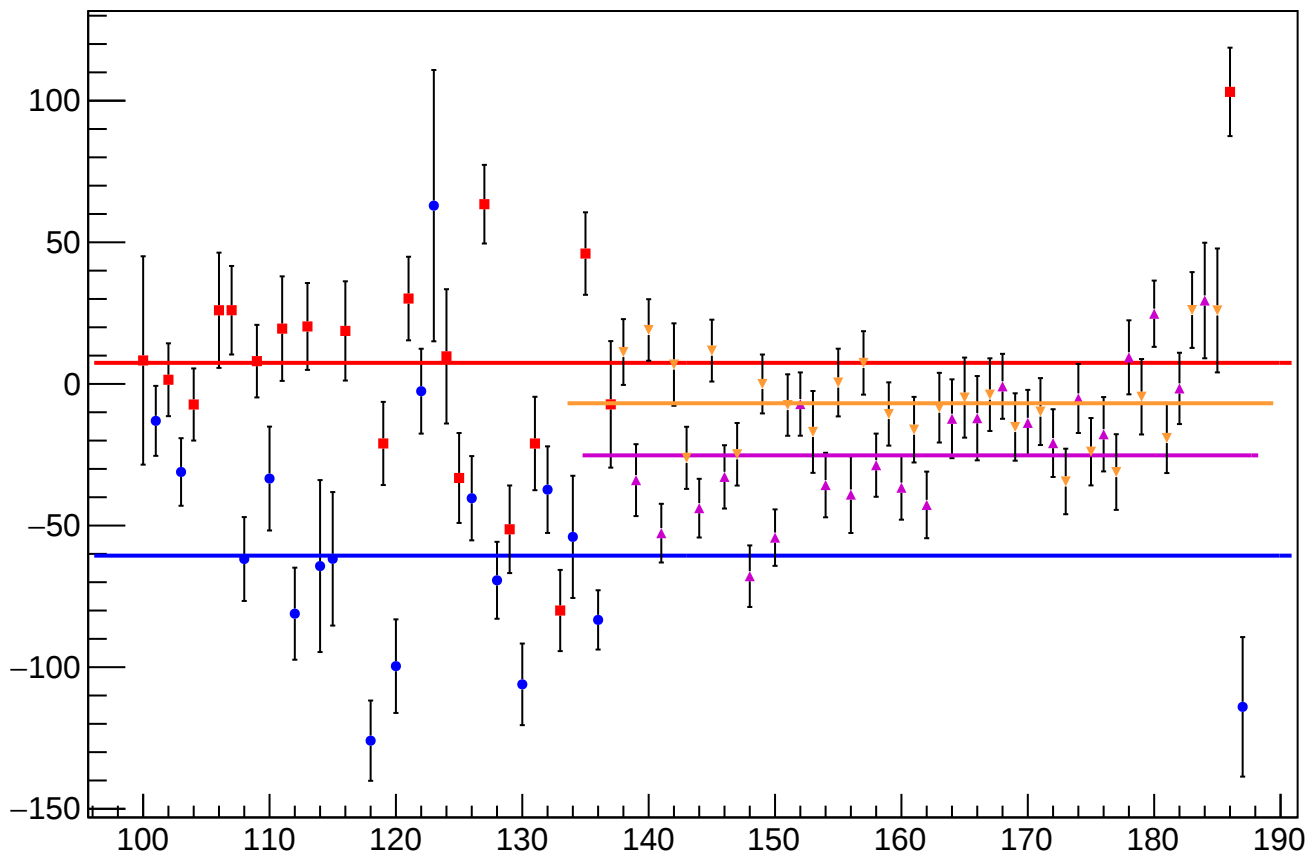
Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

+ sign 1724.435 $\pm$ 0.249 χ^2 /NDF: 2424751.3/42

All: 1733.077 $\pm$ 0.178 χ^2 /NDF: 4593023.9/85

- sign 1742.014 $\pm$ 0.253 χ^2 /NDF: 2165821.8/42

diff_bpm0l02X_mean vs Slug



Right In: -60.620 ± 3.693 $\chi^2/\text{NDF}: 97.4/17$

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

Right Out: 7.445 ± 3.542 $\chi^2/\text{NDF}: 133.9/19$

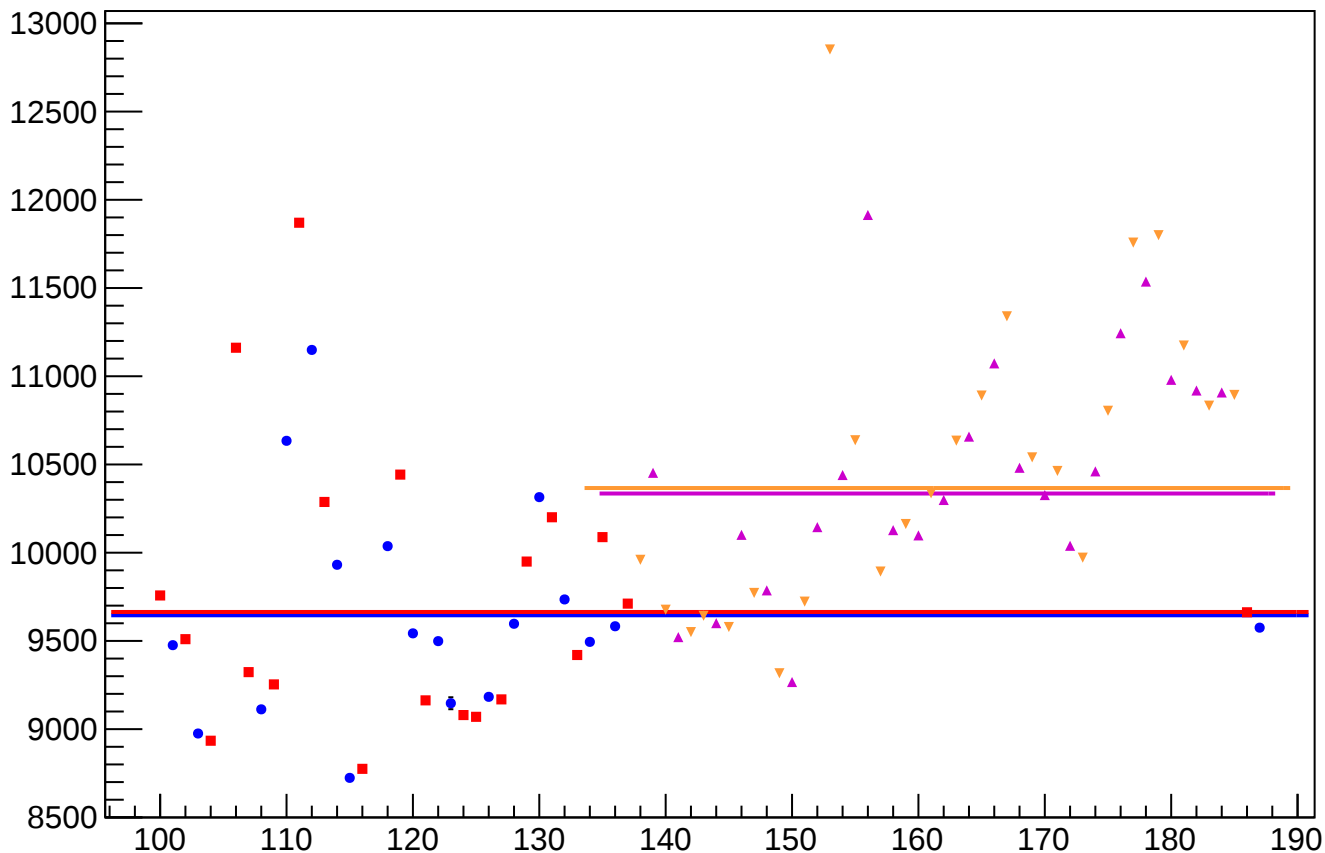
Left In: -25.215 ± 2.487 $\chi^2/\text{NDF}: 89.3/22$

+ sign -23.007 ± 2.026 $\chi^2/\text{NDF}: 288.0/42$

All: -18.739 ± 1.436 $\chi^2/\text{NDF}: 577.1/85$

- sign -14.431 ± 2.035 $\chi^2/\text{NDF}: 280.2/42$

diff_bpm0l02X_rms vs Slug



Right In: 9645.307 $\pm$ 2.612 χ^2 /NDF: 44013.7/17

Left Out: 10366.534 $\pm$ 1.713 χ^2 /NDF: 211402.8/24

Right Out: 9664.096 $\pm$ 2.504 χ^2 /NDF: 77326.5/19

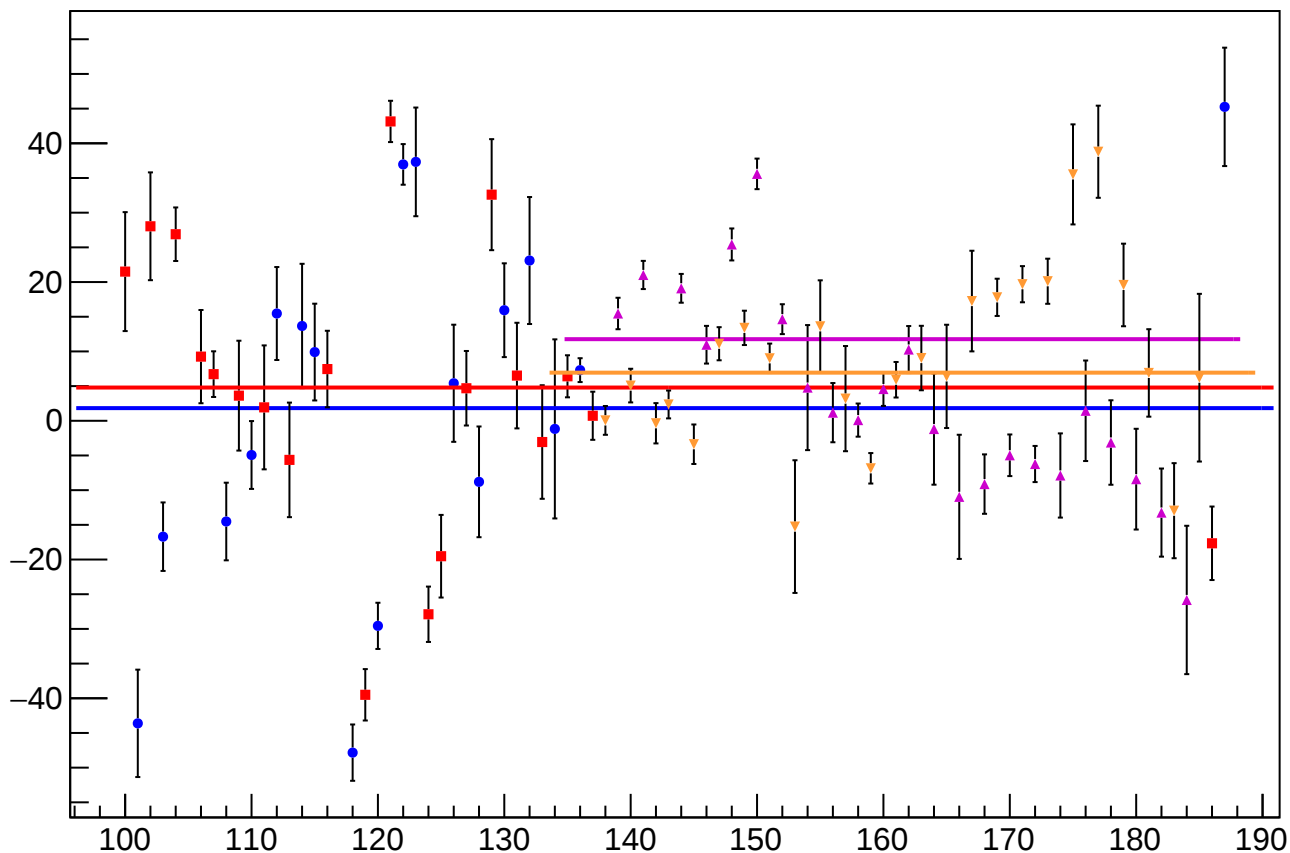
Left In: 10335.399 $\pm$ 1.758 χ^2 /NDF: 127173.0/22

+ sign 10149.580 $\pm$ 1.432 χ^2 /NDF: 308741.5/42

All: 10131.742 $\pm$ 1.015 χ^2 /NDF: 561683.8/85

- sign 10113.739 $\pm$ 1.439 χ^2 /NDF: 252630.6/42

diff_bpm0l02Y_mean vs Slug



Right In: 1.826 ± 1.059 χ^2/NDF : 517.0/17

Left Out: 6.939 ± 0.639 χ^2/NDF : 203.8/24

Right Out: 4.793 ± 1.069 χ^2/NDF : 473.7/19

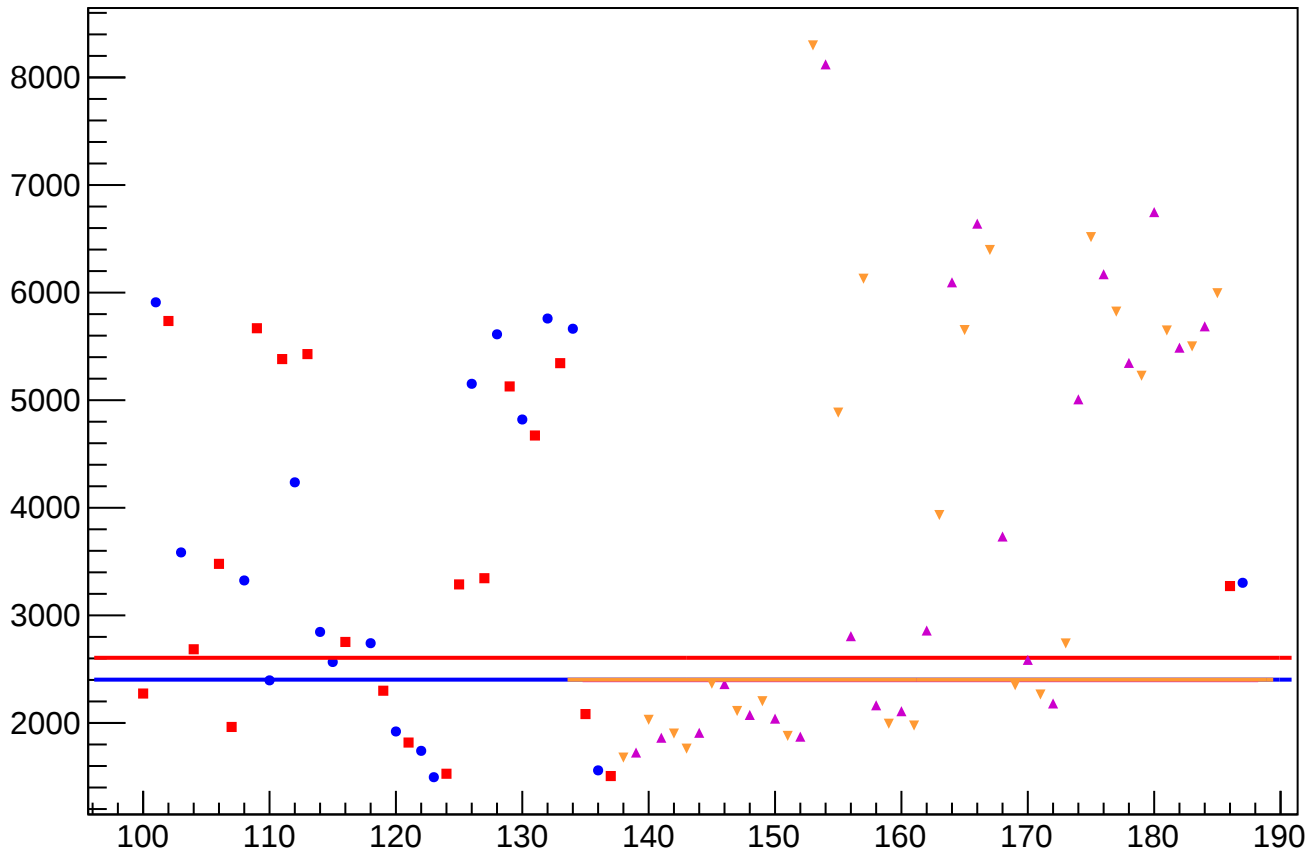
Left In: 11.766 ± 0.648 χ^2/NDF : 395.1/22

+ sign 5.575 ± 0.547 χ^2/NDF : 737.9/42

All: 7.704 ± 0.389 χ^2/NDF : 1668.5/85

- sign 9.892 ± 0.554 χ^2/NDF : 899.9/42

diff_bpm0l02Y_rms vs Slug



Right In: 2402.611+/-0.749 χ^2/NDF : 2611294.1/17

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

Right Out: 2605.683+/-0.756 χ^2/NDF : 2391818.2/19

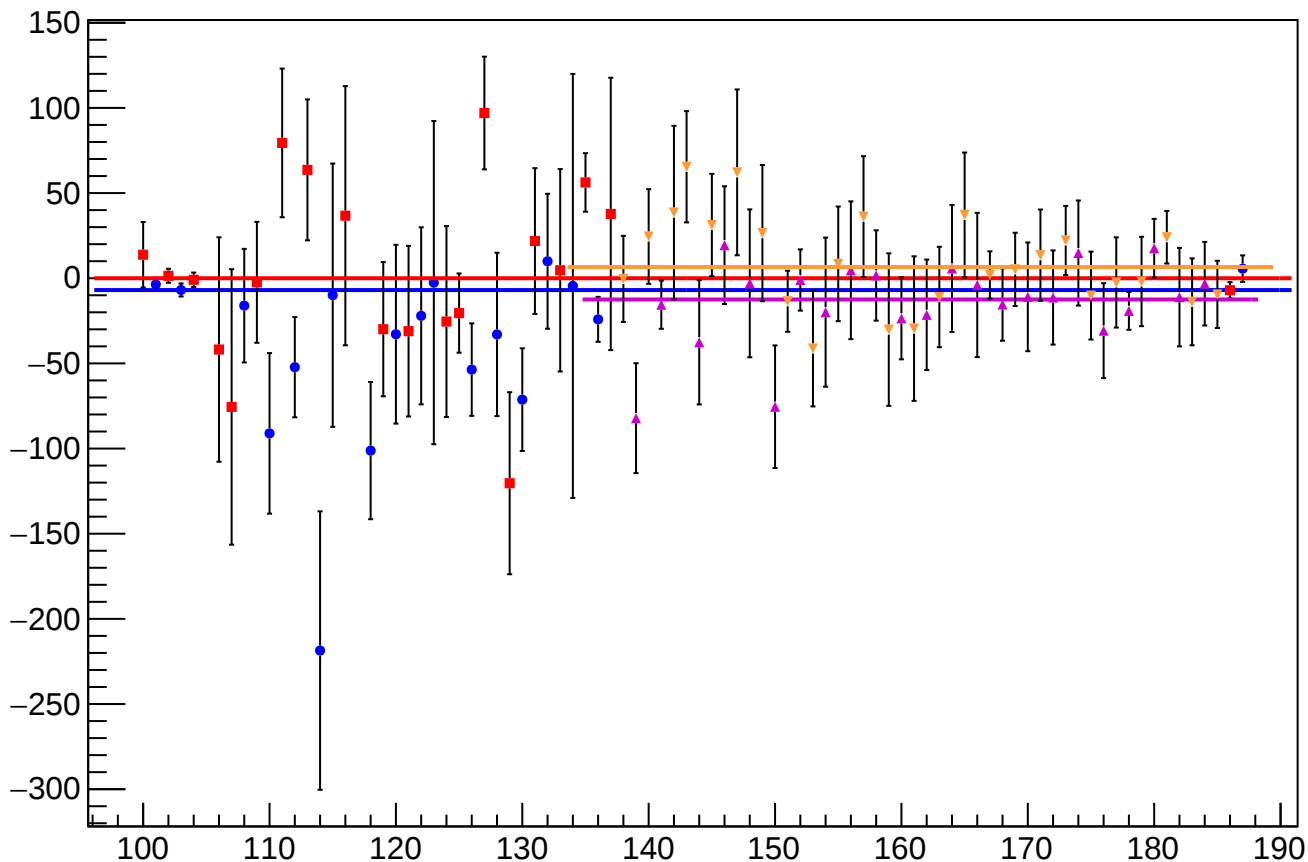
Left In: 2397.701+/-0.458 χ^2/NDF : 5398920.1/22

+ sign 2402.426+/-0.387 χ^2/NDF : 8957277.0/42

All: 2427.665+/-0.275 χ^2/NDF : 16811962.8/8

- sign 2453.599+/-0.392 χ^2/NDF : 7846051.2/42

diff_bpm0l03X_mean vs Slug



Right In: -6.950 ± 2.456 χ^2/NDF : 31.2/17

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

Right Out: -0.000 ± 2.404 χ^2/NDF : 36.9/19

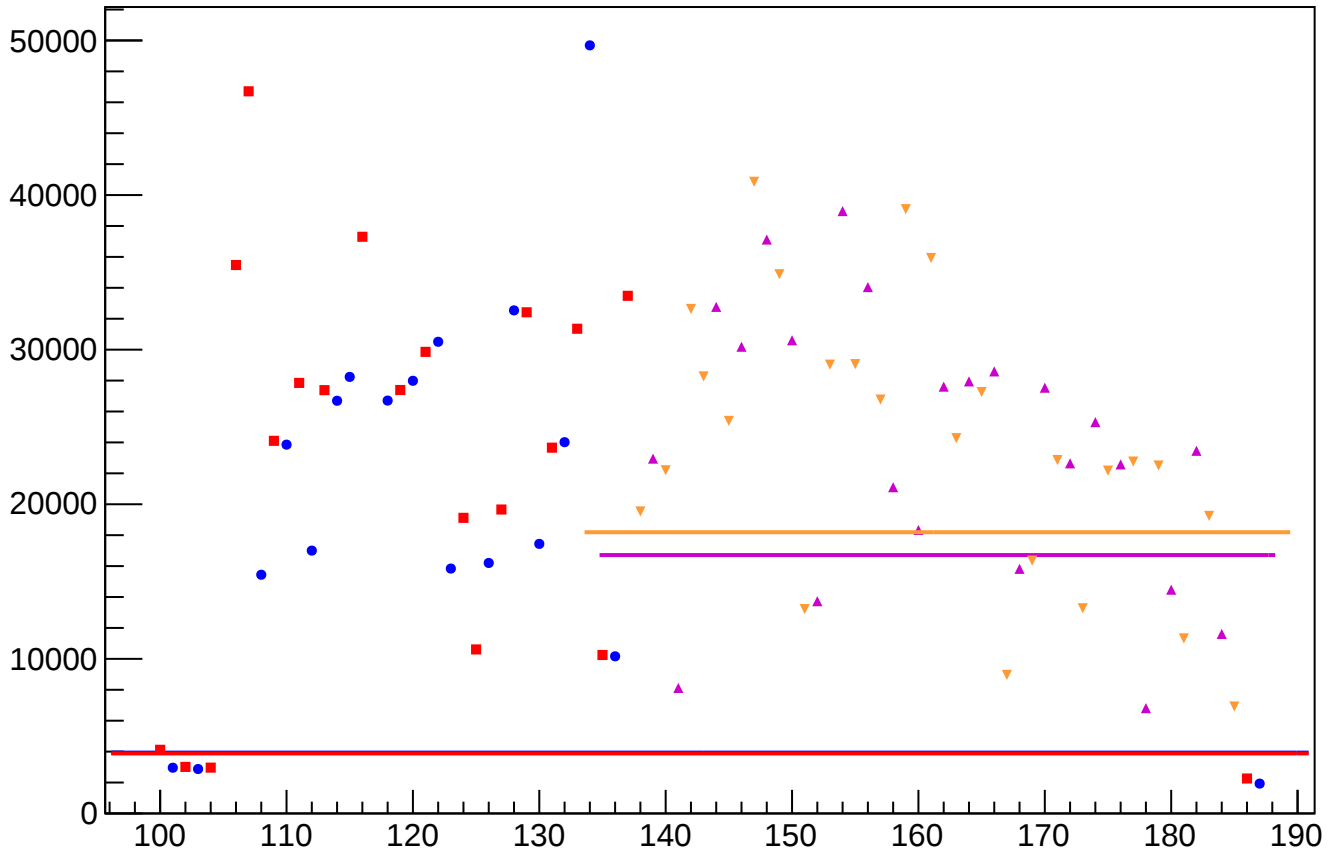
Left In: -12.469 ± 5.025 χ^2/NDF : 15.4/22

+ sign -4.388 ± 2.211 χ^2/NDF : 53.7/42

All: -3.335 ± 1.548 χ^2/NDF : 111.4/85

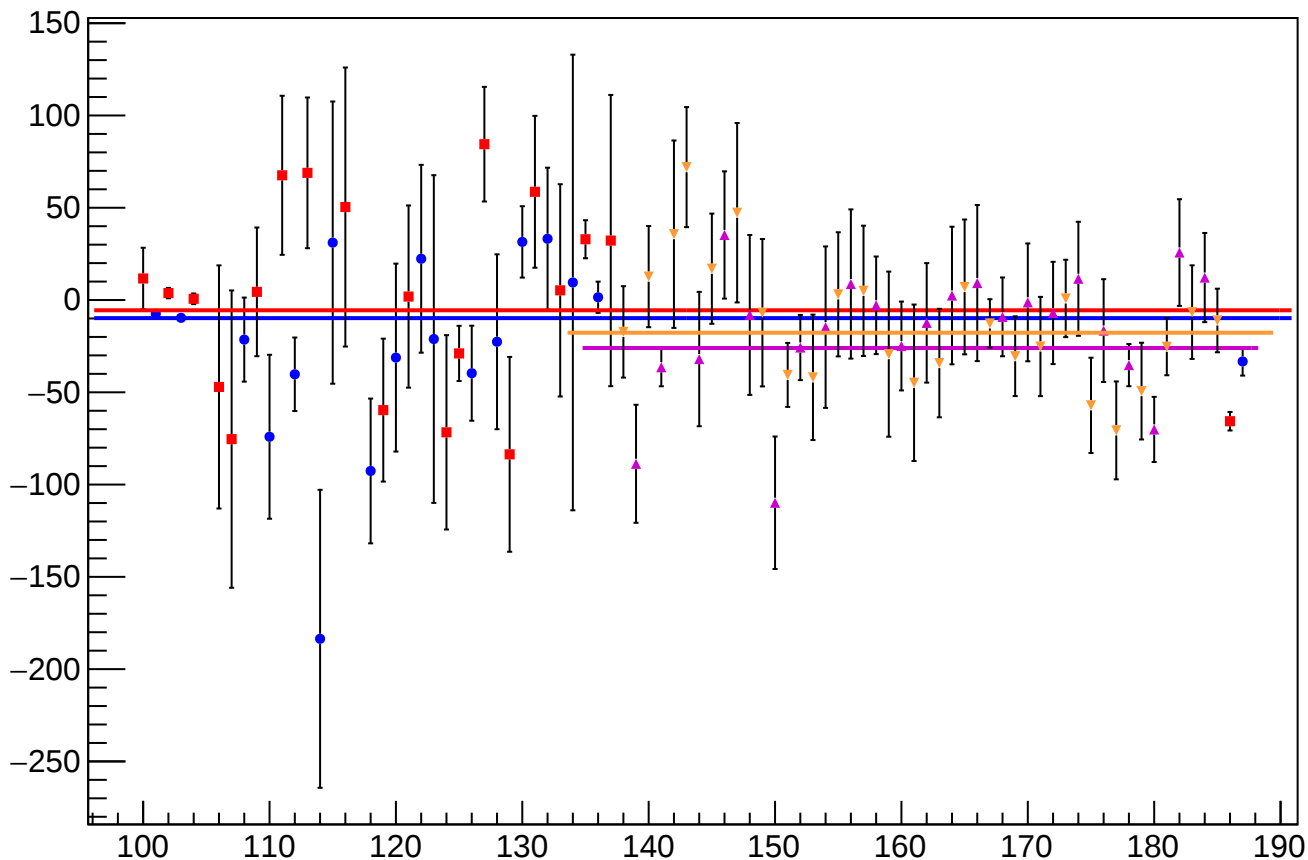
- sign -2.322 ± 2.168 χ^2/NDF : 57.3/42

diff_bpm0l03X_rms vs Slug



Right In: 3934.913+/-1.737 χ^2/NDF : 6121540.7/17 + sign 6638.221+/-1.563 χ^2/NDF : 24158643.8/42
 Left Out: 18190.387+/-3.590 χ^2/NDF : 5261328.5/24 All: 6451.501+/-1.095 χ^2/NDF : 48704728.1/8
 Right Out: 3882.941+/-1.700 χ^2/NDF : 7713485.7/19 - sign 6271.915+/-1.533 χ^2/NDF : 24518103.2/42
 Left In: 16713.653+/-3.553 χ^2/NDF : 6194178.8/22

diff_bpm0l03Y_mean vs Slug



Right In: -9.805 ± 1.732 χ^2/NDF : 33.9/17

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

Right Out: -5.556 ± 1.795 χ^2/NDF : 201.1/19

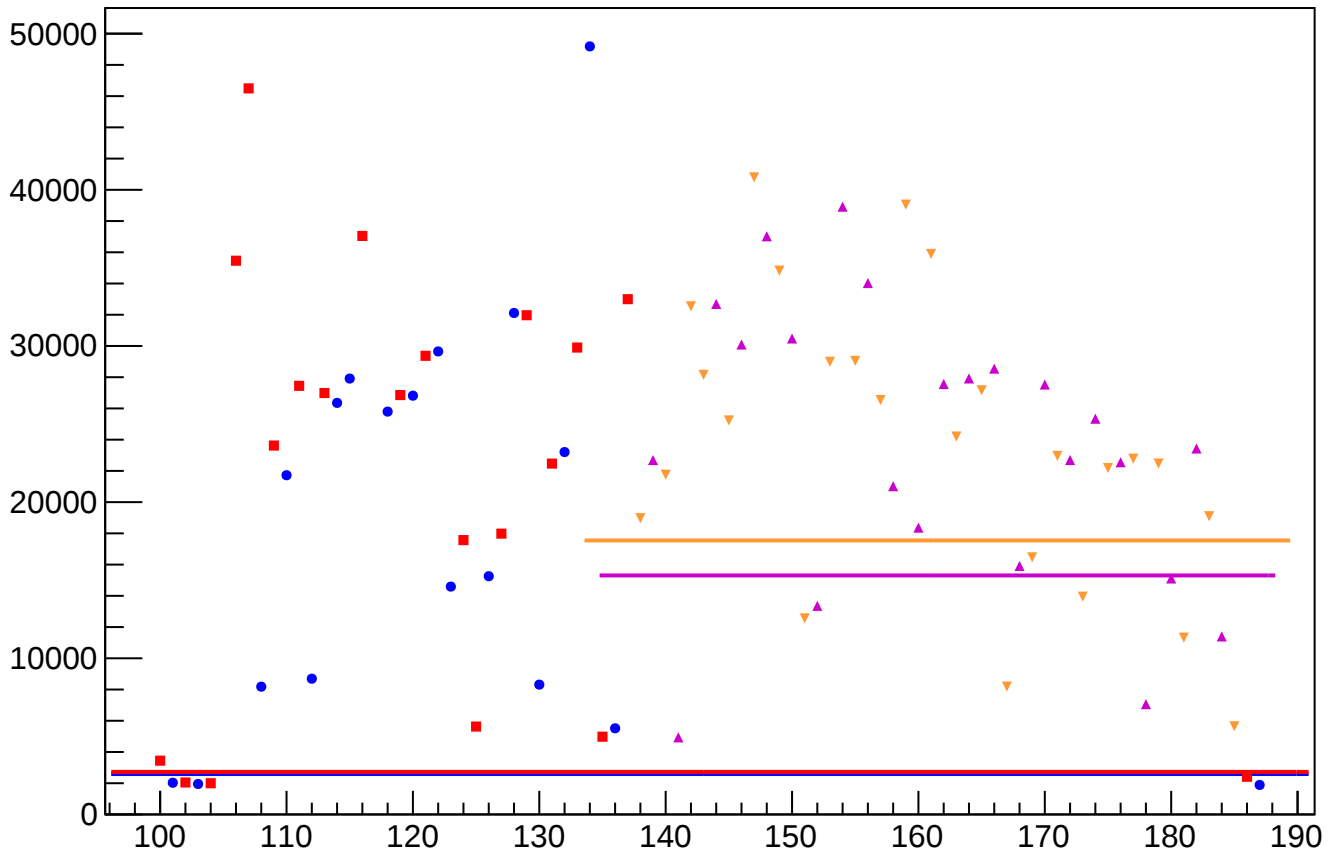
Left In: -25.991 ± 4.789 χ^2/NDF : 32.6/22

+ sign -10.661 ± 1.636 χ^2/NDF : 63.3/42

All: -9.403 ± 1.172 χ^2/NDF : 314.2/85

- sign -8.074 ± 1.681 χ^2/NDF : 249.7/42

diff_bpm0l03Y_rms vs Slug



Right In: 2589.350 ± 1.225 $\chi^2/\text{NDF}: 5587460.5/17$

Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$

Right Out: 2725.200 ± 1.269 $\chi^2/\text{NDF}: 7821531.7/19$

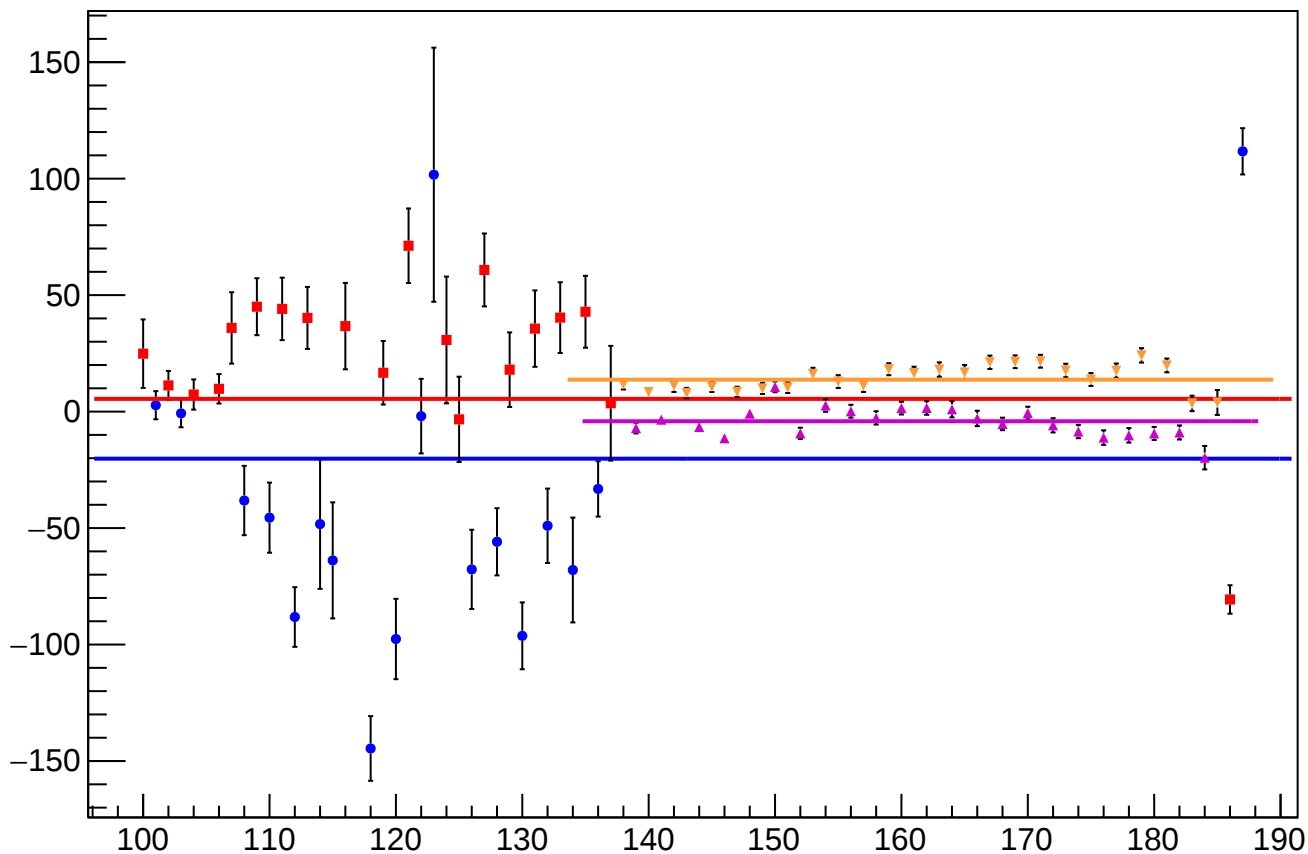
Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

+ sign 4206.391 ± 1.157 $\chi^2/\text{NDF}: 27617567.6/42$

All: 4239.931 ± 0.829 $\chi^2/\text{NDF}: 55262967.3/8$

- sign 4275.362 ± 1.189 $\chi^2/\text{NDF}: 27643670.2/42$

diff_bpm0l04X_mean vs Slug



Right In: -20.210 ± 2.858 χ^2/NDF : 395.7/17

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

Right Out: 5.463 ± 2.448 χ^2/NDF : 280.4/19

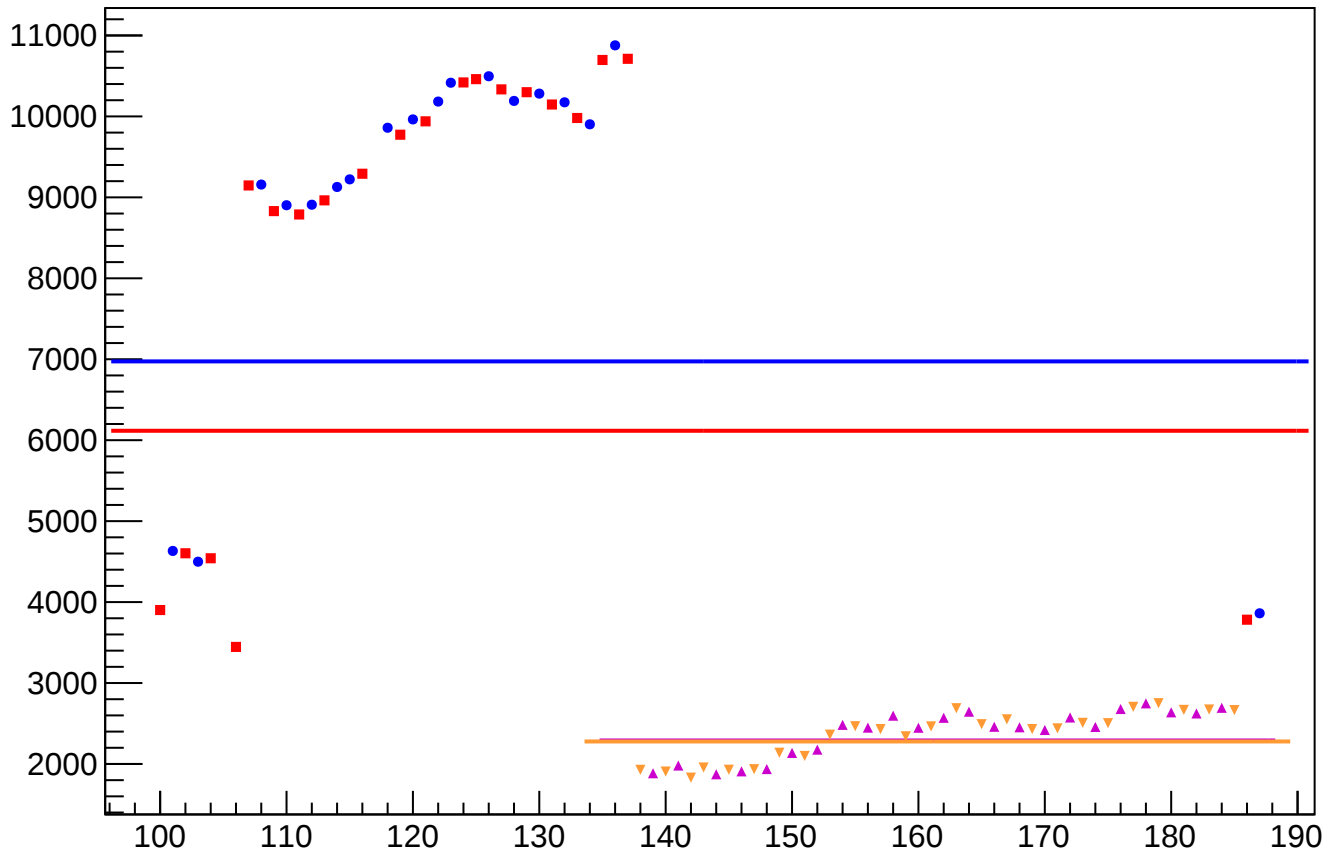
Left In: -4.141 ± 0.555 χ^2/NDF : 111.7/22

+ sign 12.561 ± 0.526 χ^2/NDF : 621.7/42

All: 4.672 ± 0.377 χ^2/NDF : 1491.0/85

- sign -3.671 ± 0.541 χ^2/NDF : 406.7/42

diff_bpm0l04X_rms vs Slug



Right In: 6973.467+/-2.021 χ^2 /NDF: 1847166.9/17

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

Right Out: 6116.322+/-1.731 χ^2 /NDF: 2538489.1/19

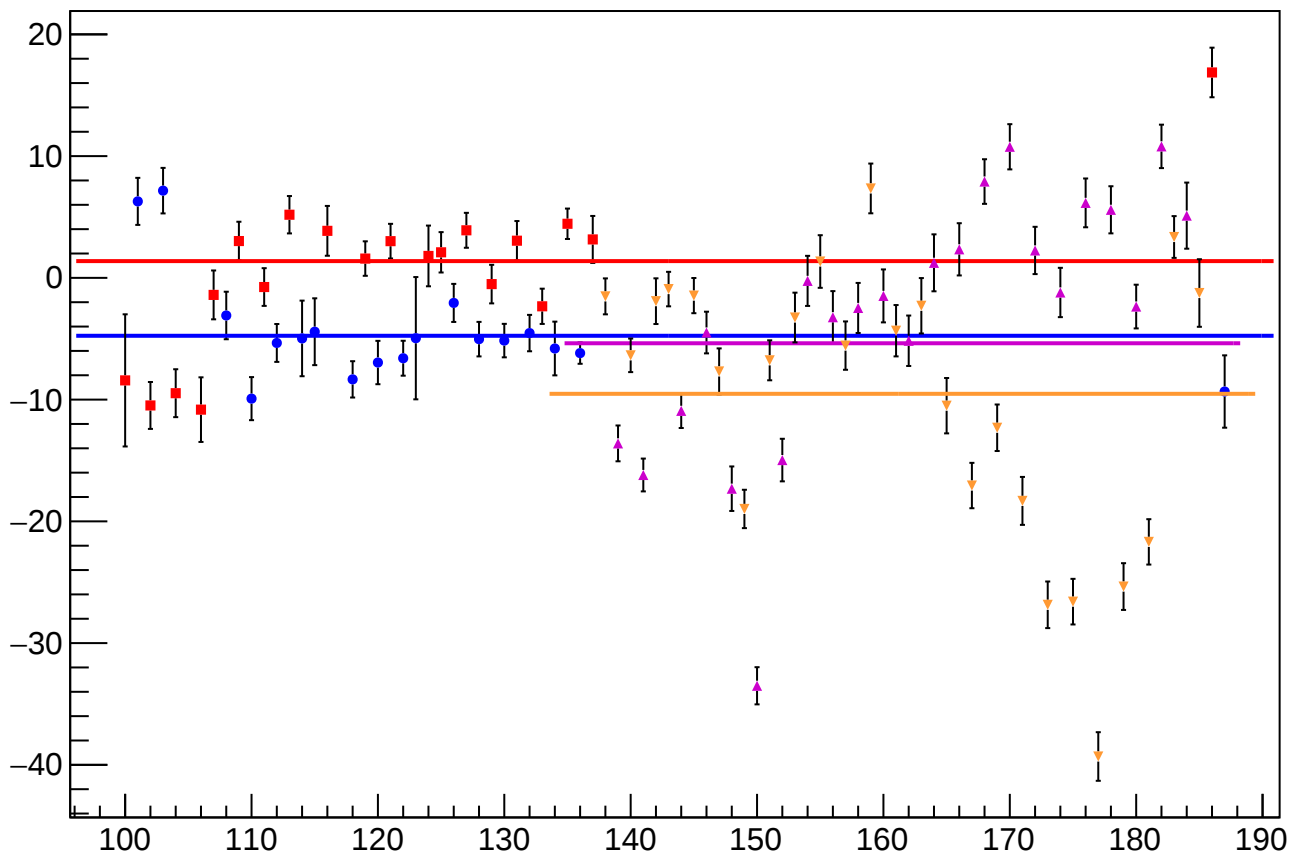
Left In: 2290.461+/-0.392 χ^2 /NDF: 590272.1/22

+ sign 2437.183+/-0.372 χ^2 /NDF: 7668224.1/42

All: 2456.724+/-0.267 χ^2 /NDF: 15449624.0/8

- sign 2477.393+/-0.383 χ^2 /NDF: 7775722.2/42

diff_bpm0l04Y_mean vs Slug



Right In: -4.757 $\pm$ 0.390 χ^2 /NDF: 100.0/17

Left Out: -9.524 $\pm$ 0.365 χ^2 /NDF: 884.1/24

Right Out: 1.376 $\pm$ 0.382 χ^2 /NDF: 183.7/19

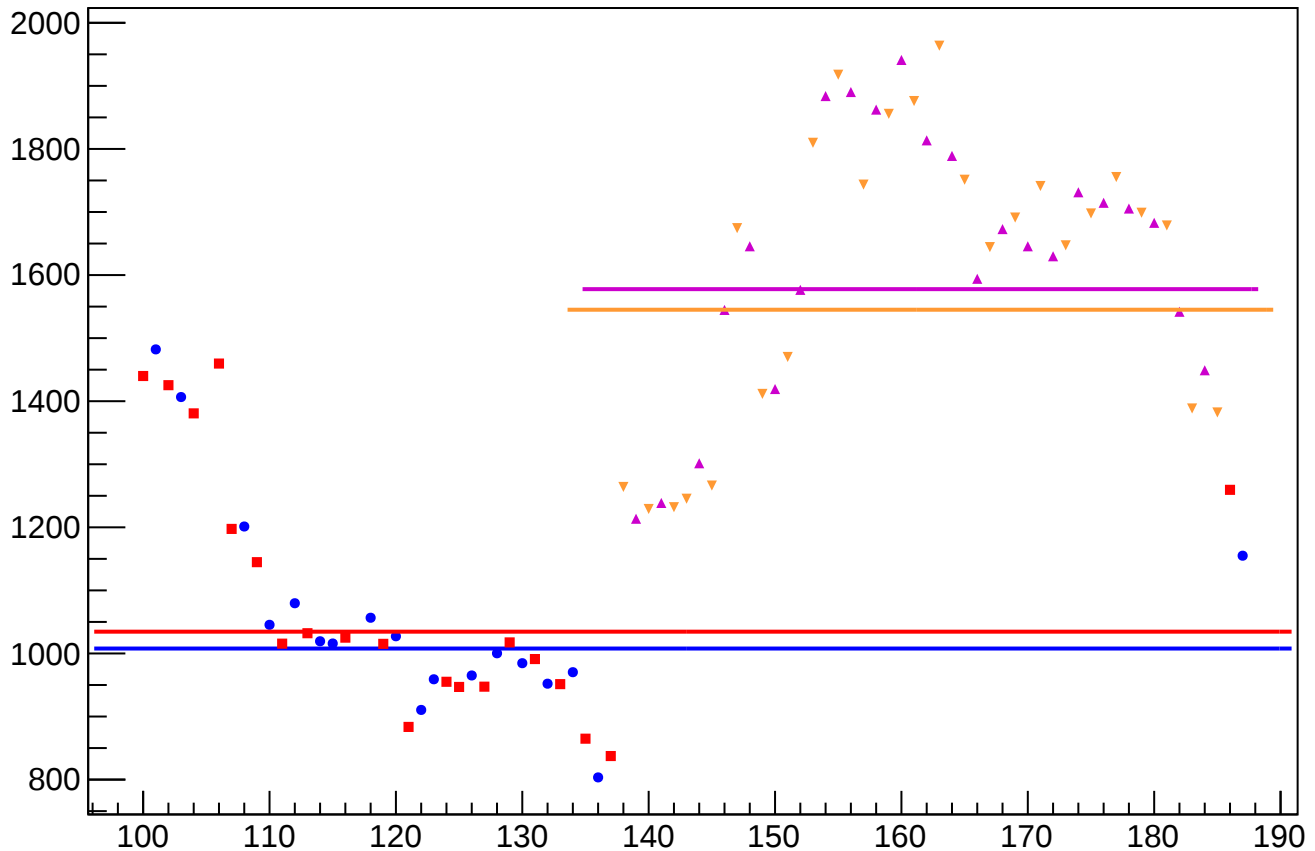
Left In: -5.372 $\pm$ 0.383 χ^2 /NDF: 869.8/22

+ sign -7.299 $\pm$ 0.266 χ^2 /NDF: 1063.8/42

All: -4.687 $\pm$ 0.190 χ^2 /NDF: 2468.2/85

- sign -1.993 $\pm$ 0.271 χ^2 /NDF: 1209.1/42

diff_bpm0l04Y_rms vs Slug



Right In: 1007.814+/-0.276 χ^2/NDF : 366926.9/17

Left Out: 1545.053+/-0.258 χ^2/NDF : 842722.3/24

Right Out: 1034.556+/-0.270 χ^2/NDF : 358246.6/19

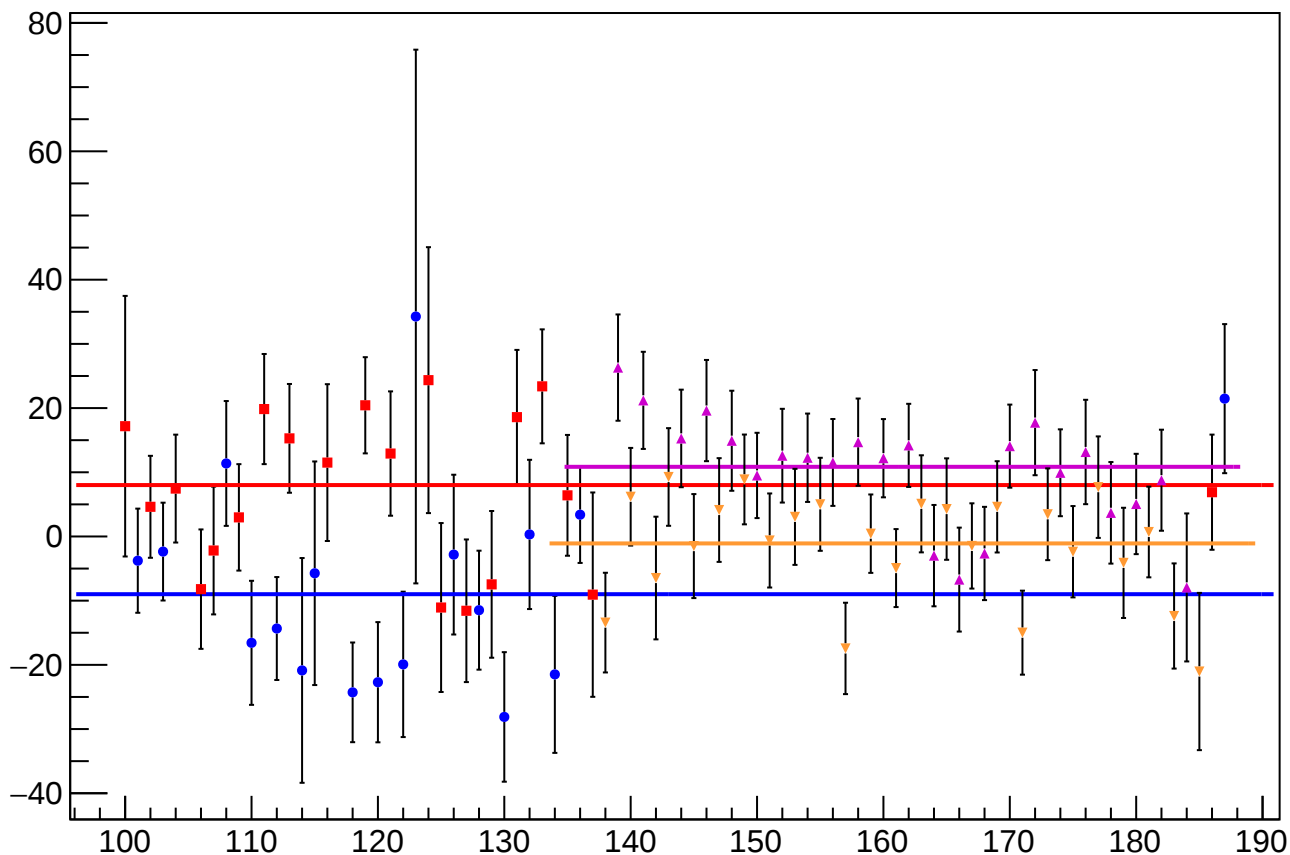
Left In: 1577.685+/-0.271 χ^2/NDF : 625406.2/22

+ sign 1294.324+/-0.188 χ^2/NDF : 3234306.4/42

All: 1299.922+/-0.134 χ^2/NDF : 6234911.8/85

- sign 1305.696+/-0.191 χ^2/NDF : 2998811.2/42

diff_bpm0l05X_mean vs Slug



Right In: -8.991 ± 2.361 χ^2/NDF : 30.3/17

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

Right Out: 8.007 ± 2.210 χ^2/NDF : 23.5/19

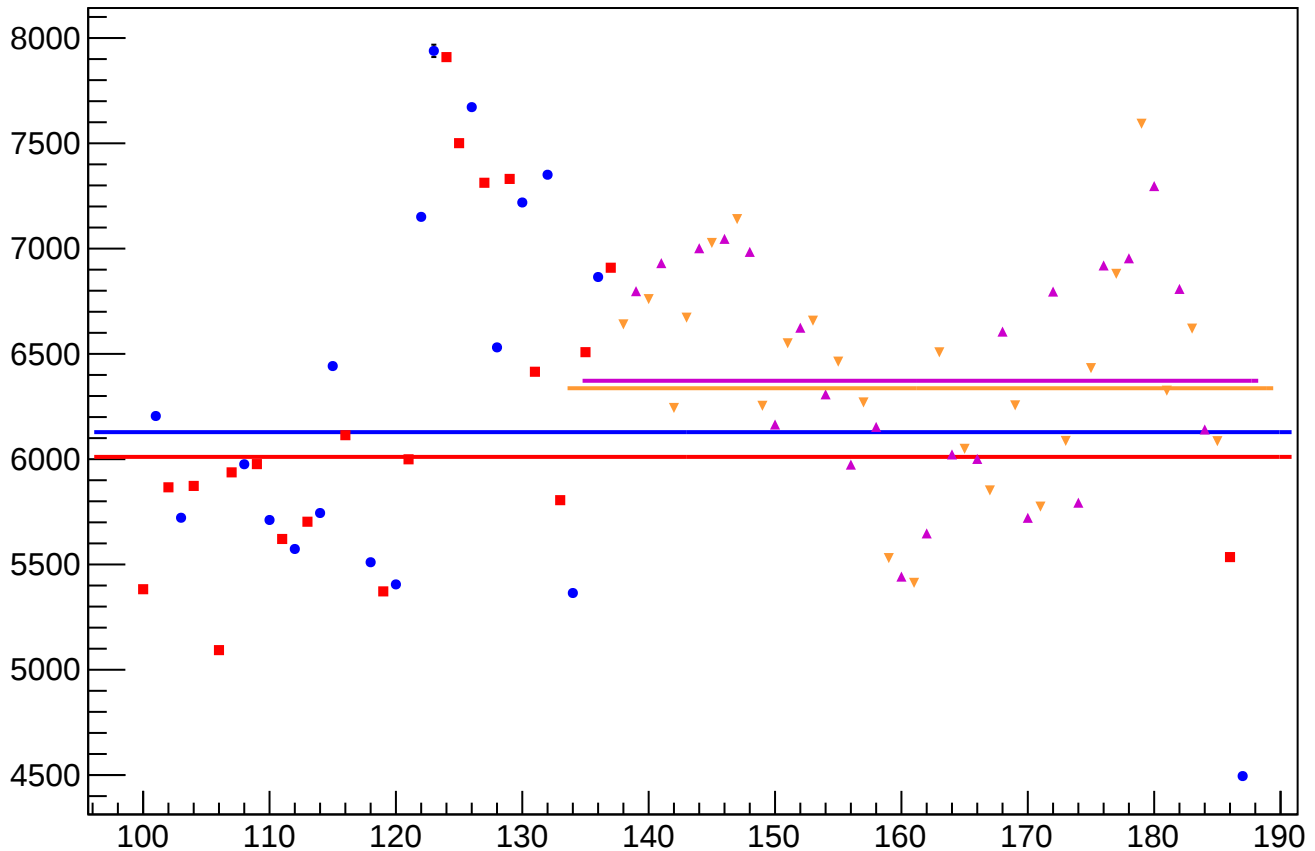
Left In: 10.851 ± 1.542 χ^2/NDF : 24.4/22

+ sign -3.329 ± 1.258 χ^2/NDF : 65.9/42

All: 3.264 ± 0.892 χ^2/NDF : 170.0/85

- sign 9.920 ± 1.264 χ^2/NDF : 48.9/42

diff_bpm0l05X_rms vs Slug



Right In: 6128.408 $\pm$ 1.670 χ^2 /NDF: 212583.5/17

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

Right Out: 6010.865 $\pm$ 1.563 χ^2 /NDF: 162378.3/19

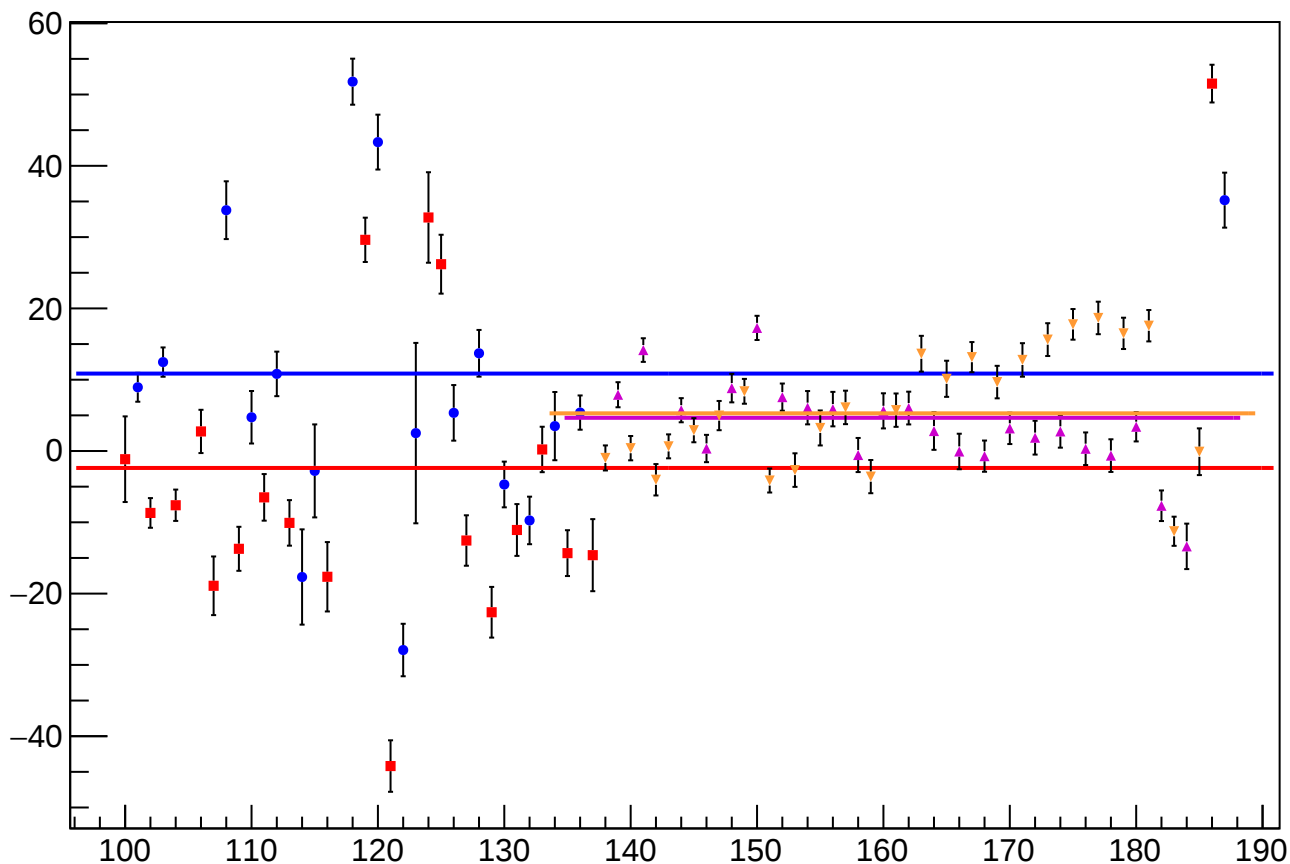
Left In: 6372.349 $\pm$ 1.090 χ^2 /NDF: 247257.0/22

+ sign 6277.673 $\pm$ 0.890 χ^2 /NDF: 446656.8/42

All: 6265.920 $\pm$ 0.631 χ^2 /NDF: 892628.4/85

- sign 6254.052 $\pm$ 0.894 χ^2 /NDF: 445620.9/42

diff_bpm0l05Y_mean vs Slug



Right In: 10.860 ± 0.781 χ^2/NDF : 514.1/17

Left Out: 5.284 ± 0.421 χ^2/NDF : 366.1/24

Right Out: -2.377 ± 0.736 χ^2/NDF : 865.1/19

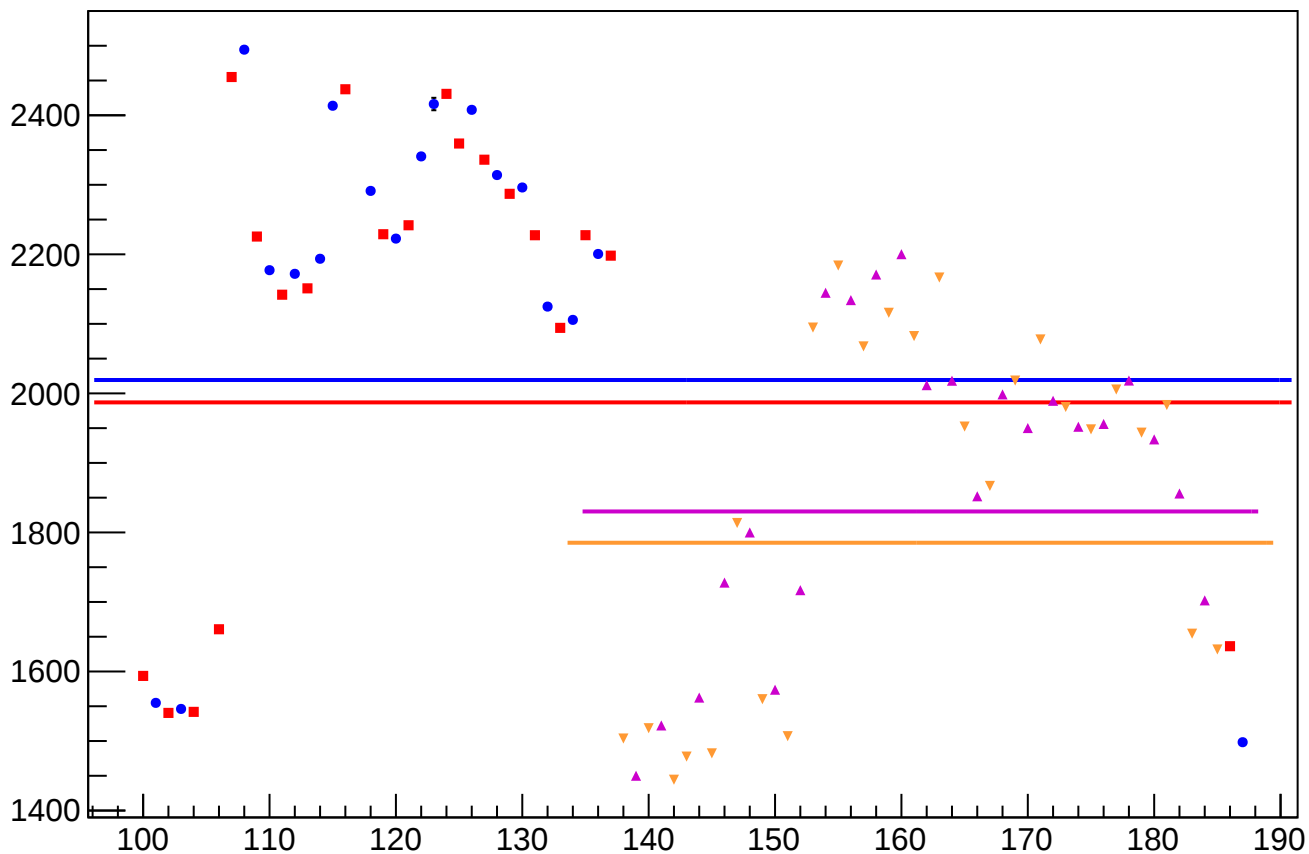
Left In: 4.657 ± 0.443 χ^2/NDF : 196.5/22

+ sign 6.537 ± 0.370 χ^2/NDF : 919.7/42

All: 4.707 ± 0.265 χ^2/NDF : 2098.5/85

- sign 2.783 ± 0.380 χ^2/NDF : 1128.7/42

diff_bpm0l05Y_rms vs Slug



Right In: 2019.241 $\pm$ 0.553 χ^2 /NDF: 394276.4/17

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

Right Out: 1987.040 $\pm$ 0.520 χ^2 /NDF: 413226.9/19

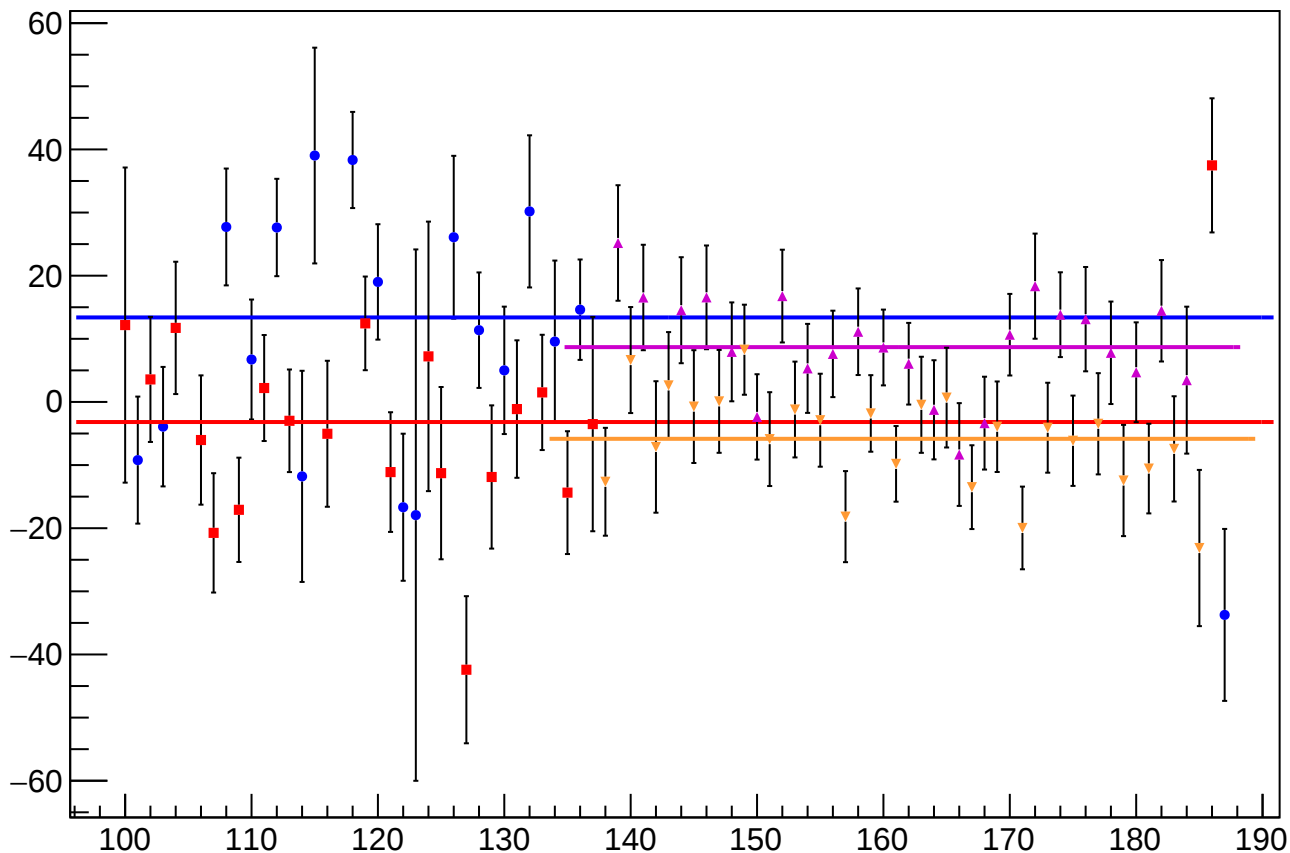
Left In: 1830.160 $\pm$ 0.313 χ^2 /NDF: 508391.9/22

+ sign 1837.773 $\pm$ 0.262 χ^2 /NDF: 1284023.1/42

All: 1854.443 $\pm$ 0.187 χ^2 /NDF: 2280674.3/85

- sign 1871.959 $\pm$ 0.268 χ^2 /NDF: 988345.0/42

diff_bpm0l06X_mean vs Slug



Right In: 13.387 ± 2.449 χ^2/NDF : 53.3/17

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

Right Out: -3.181 ± 2.304 χ^2/NDF : 43.6/19

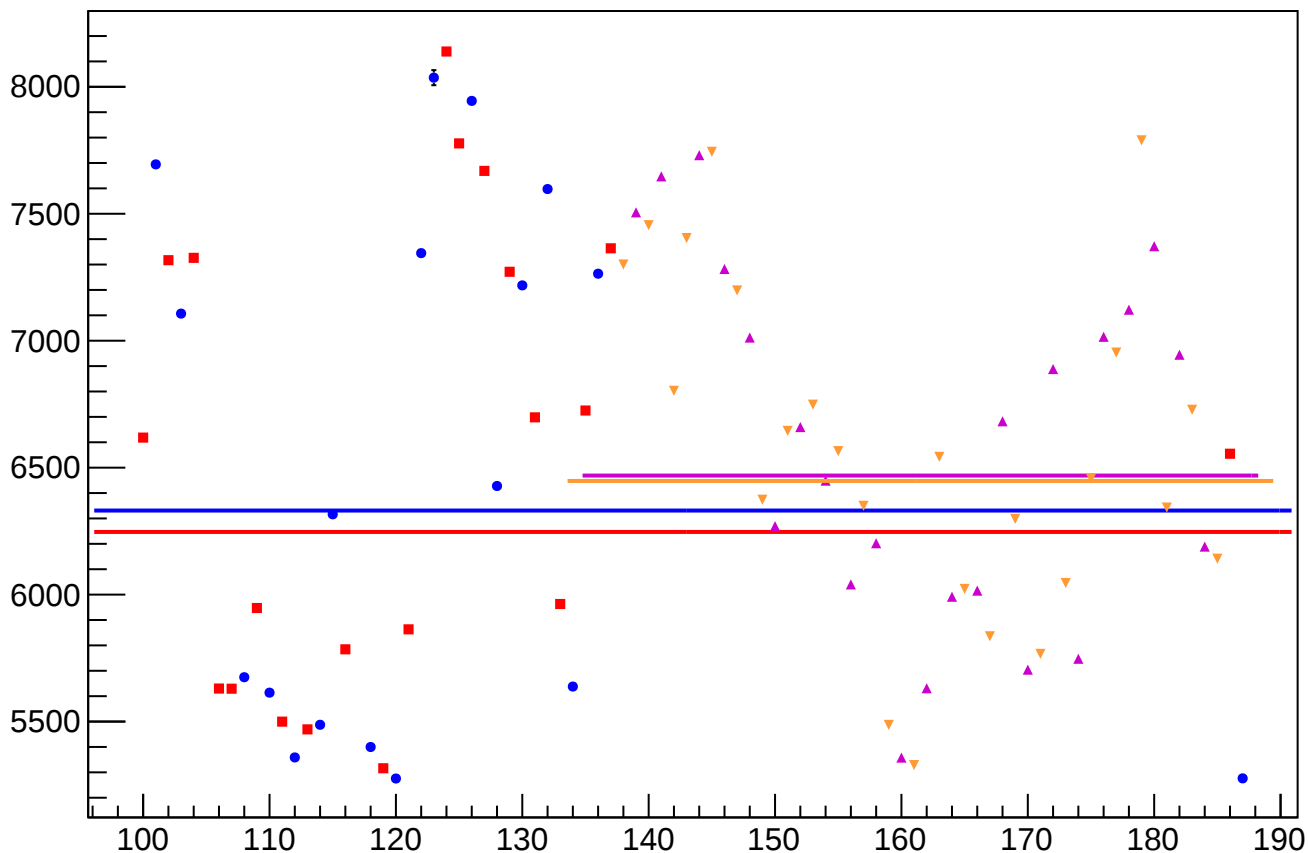
Left In: 8.683 ± 1.571 χ^2/NDF : 21.9/22

+ sign -0.502 ± 1.290 χ^2/NDF : 121.1/42

All: 2.193 ± 0.915 χ^2/NDF : 213.5/85

- sign 4.918 ± 1.298 χ^2/NDF : 83.6/42

diff_bpm0l06X_rms vs Slug



Right In: 6331.092+/-1.732 χ^2/NDF : 297964.3/17

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

Right Out: 6246.858+/-1.629 χ^2/NDF : 243073.0/19

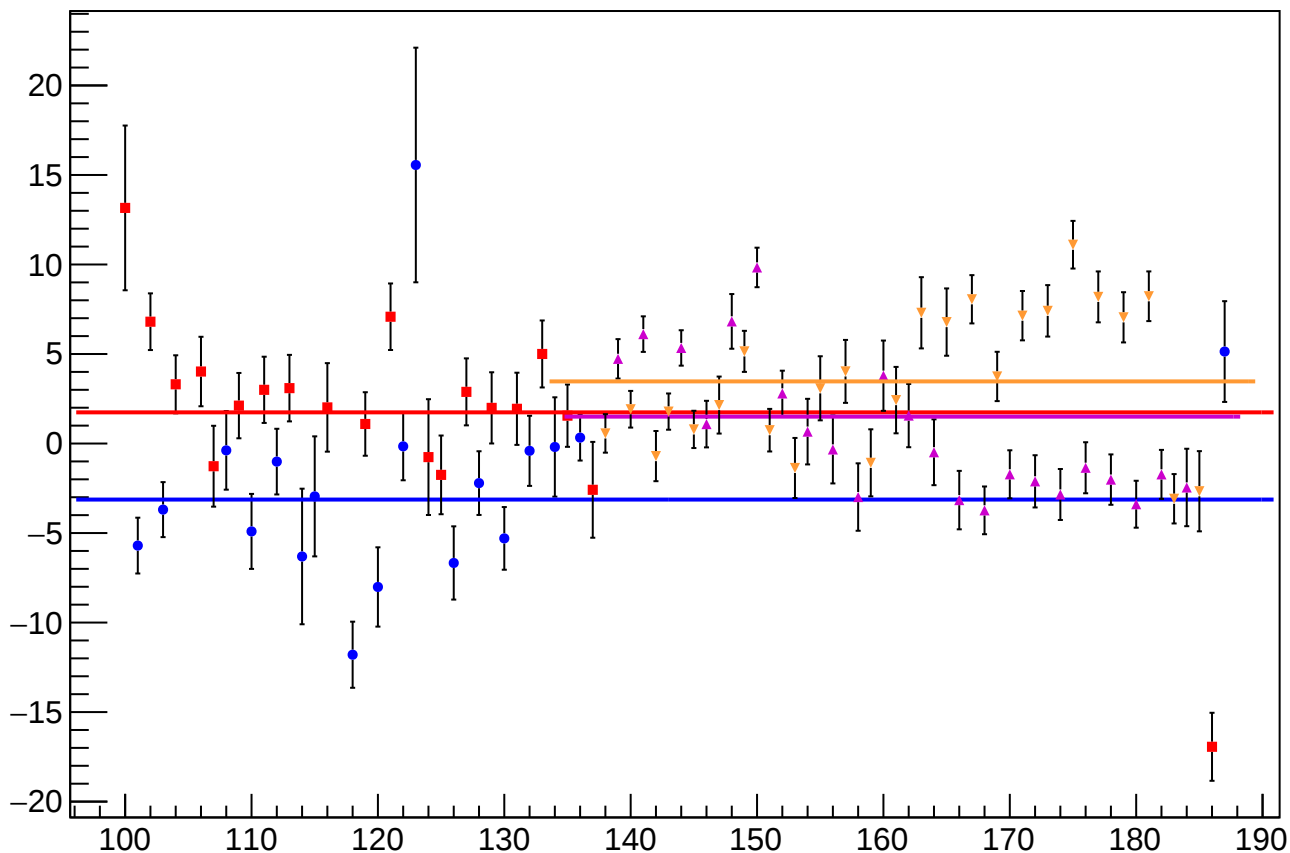
Left In: 6468.902+/-1.111 χ^2/NDF : 383325.4/22

+ sign 6415.335+/-0.912 χ^2/NDF : 672911.3/42

All: 6406.936+/-0.647 χ^2/NDF : 1312165.0/85

- sign 6398.443+/-0.918 χ^2/NDF : 639083.3/42

diff_bpm0l06Y_mean vs Slug



Right In: -3.130 ± 0.470 χ^2/NDF : 68.4/17

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

Right Out: 1.741 ± 0.444 χ^2/NDF : 135.8/19

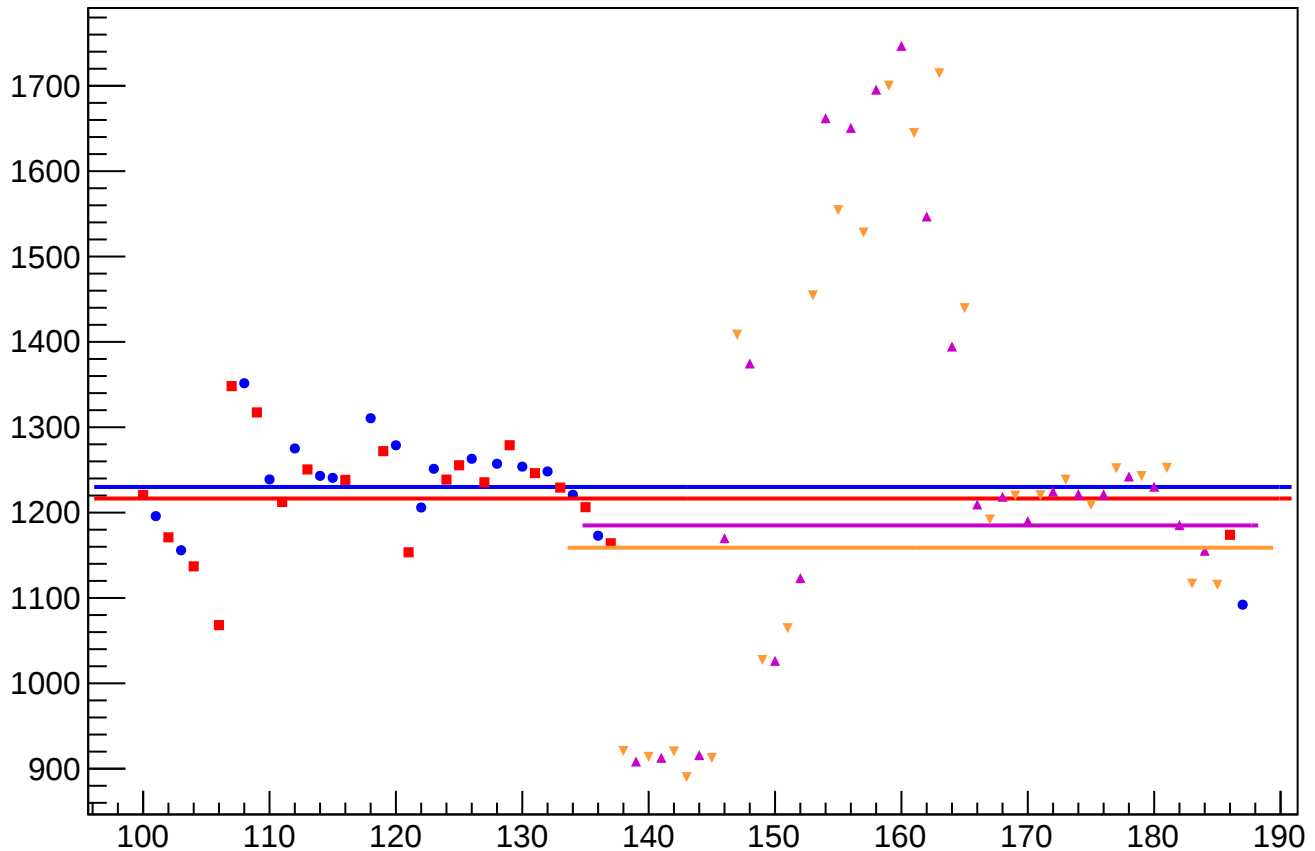
Left In: 1.502 ± 0.291 χ^2/NDF : 202.7/22

+ sign 1.773 ± 0.238 χ^2/NDF : 391.1/42

All: 1.675 ± 0.170 χ^2/NDF : 730.2/85

- sign 1.574 ± 0.243 χ^2/NDF : 338.8/42

diff_bpm0l06Y_rms vs Slug



Right In: 1230.027 $\pm$ 0.332 χ^2 /NDF: 28496.6/17

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

Right Out: 1216.522 $\pm$ 0.314 χ^2 /NDF: 41433.7/19

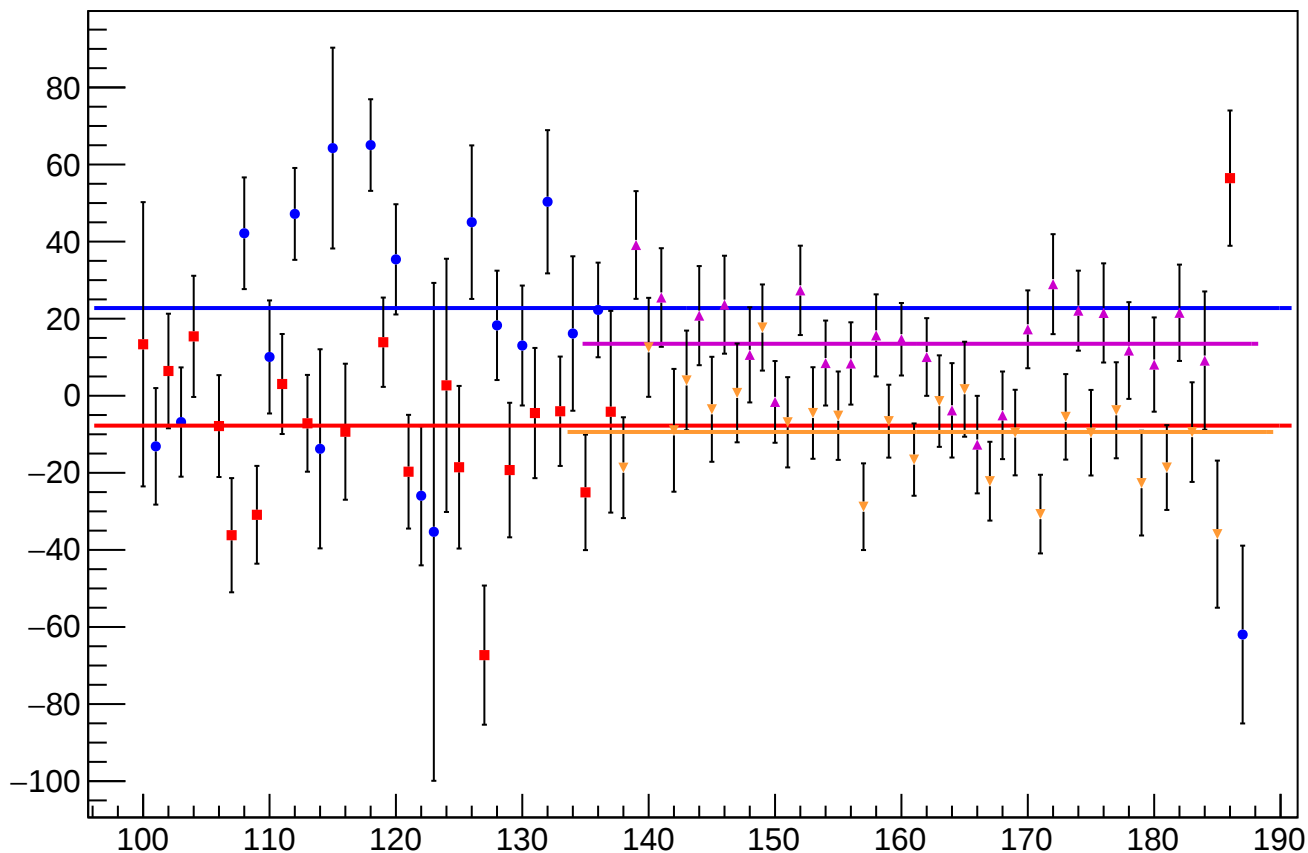
Left In: 1184.966 $\pm$ 0.206 χ^2 /NDF: 1190431.5/22

+ sign 1177.190 $\pm$ 0.168 χ^2 /NDF: 1472998.4/42

All: 1185.623 $\pm$ 0.120 χ^2 /NDF: 2717047.2/85

- sign 1194.418 $\pm$ 0.172 χ^2 /NDF: 1238927.2/42

diff_bpm0l07X_mean vs Slug



Right In: 22.756 ± 3.792 $\chi^2/\text{NDF}: 60.3/17$

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

Right Out: -7.751 ± 3.525 $\chi^2/\text{NDF}: 41.8/19$

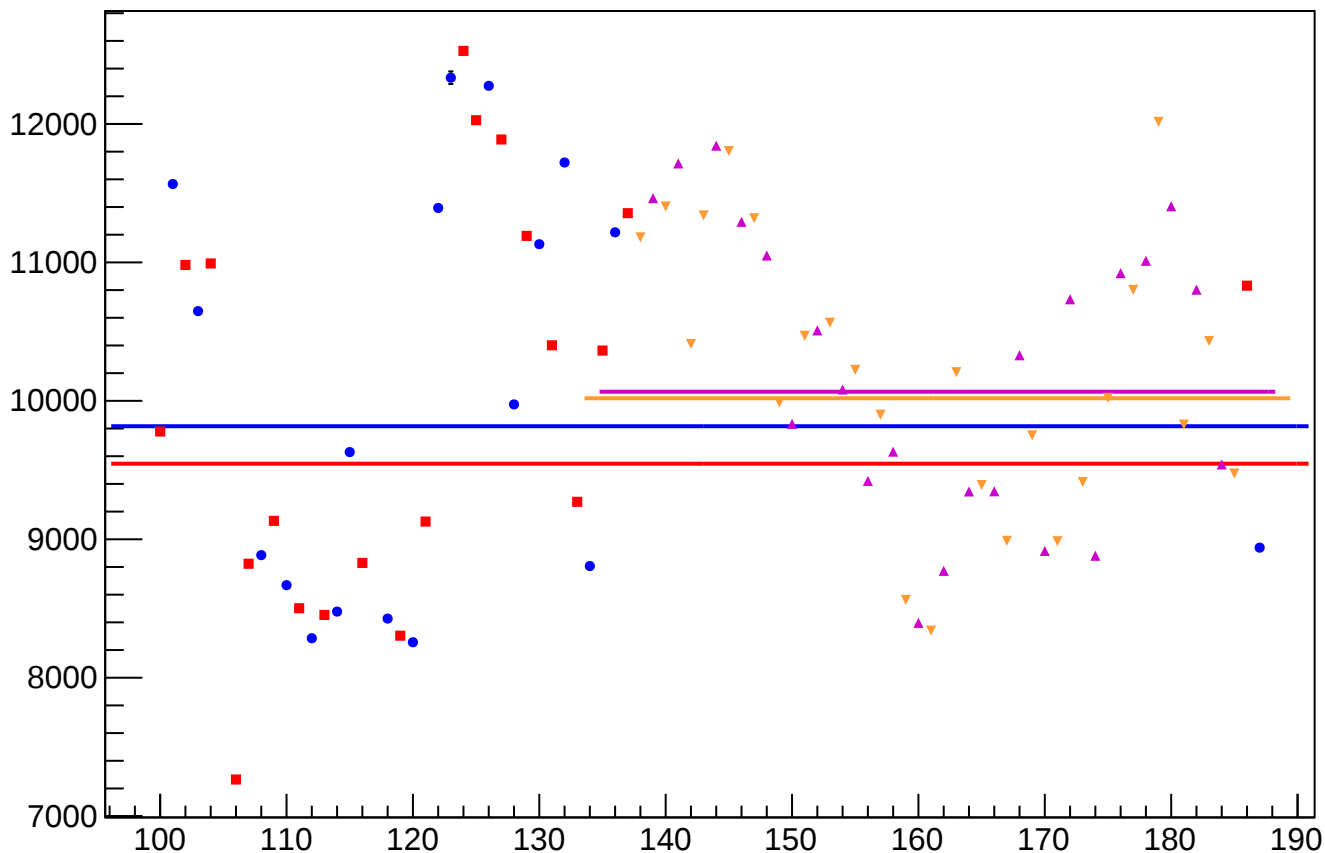
Left In: 13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

+ sign -0.428 ± 2.003 $\chi^2/\text{NDF}: 138.5/42$

All: 3.074 ± 1.418 $\chi^2/\text{NDF}: 232.5/85$

- sign 6.595 ± 2.008 $\chi^2/\text{NDF}: 87.9/42$

diff_bpm0l07X_rms vs Slug



Right In: 9816.612 $\pm$ 2.681 χ^2 /NDF: 262078.0/17

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

Right Out: 9546.034 $\pm$ 2.493 χ^2 /NDF: 285765.5/19

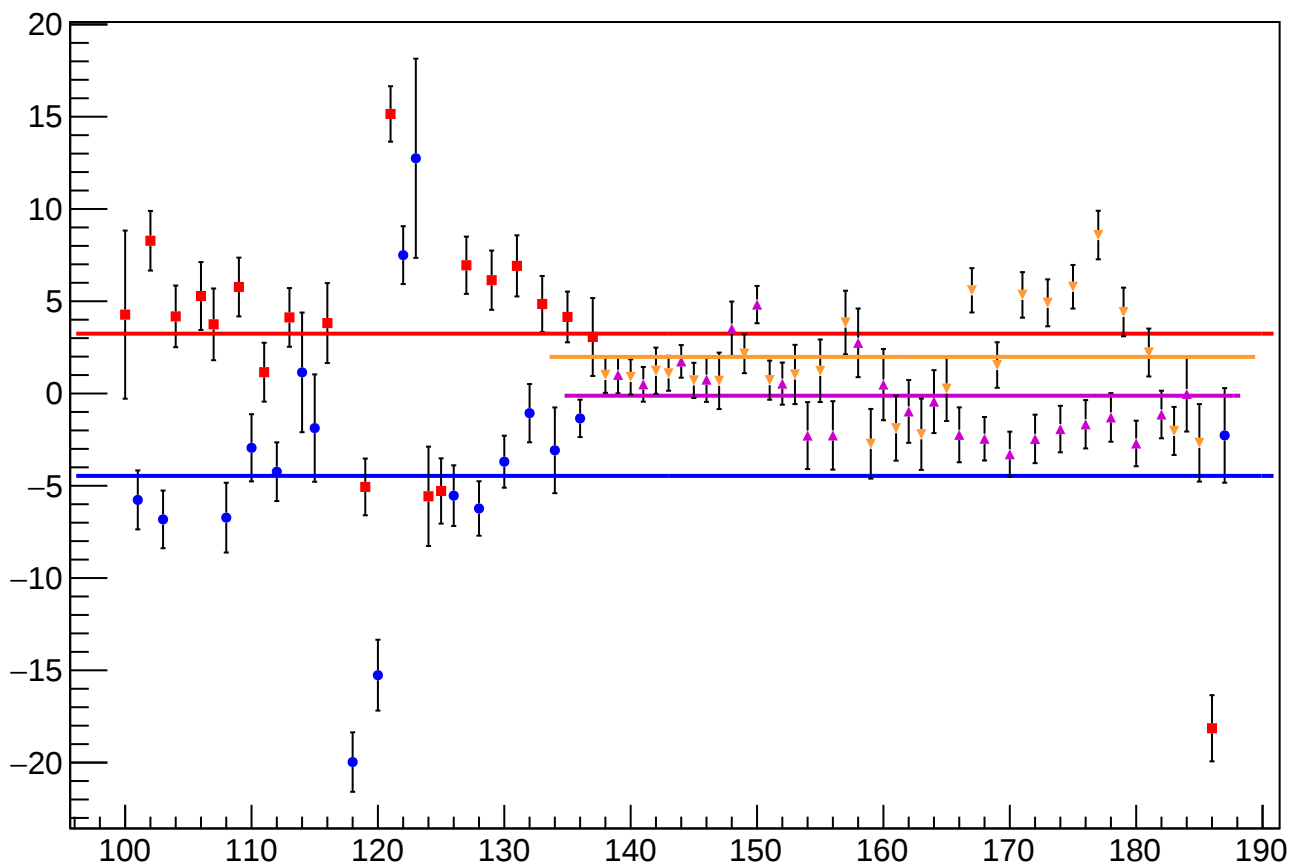
Left In: 10065.909 $\pm$ 1.727 χ^2 /NDF: 357868.9/22

+ sign 9962.227 $\pm$ 1.416 χ^2 /NDF: 610703.3/42

All: 9929.818 $\pm$ 1.003 χ^2 /NDF: 1284776.4/85

- sign 9897.242 $\pm$ 1.420 χ^2 /NDF: 673022.8/42

diff_bpm0l07Y_mean vs Slug



Right In: -4.464 ± 0.404 $\chi^2/\text{NDF}: 218.9/17$

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

Right Out: 3.244 ± 0.385 $\chi^2/\text{NDF}: 299.6/19$

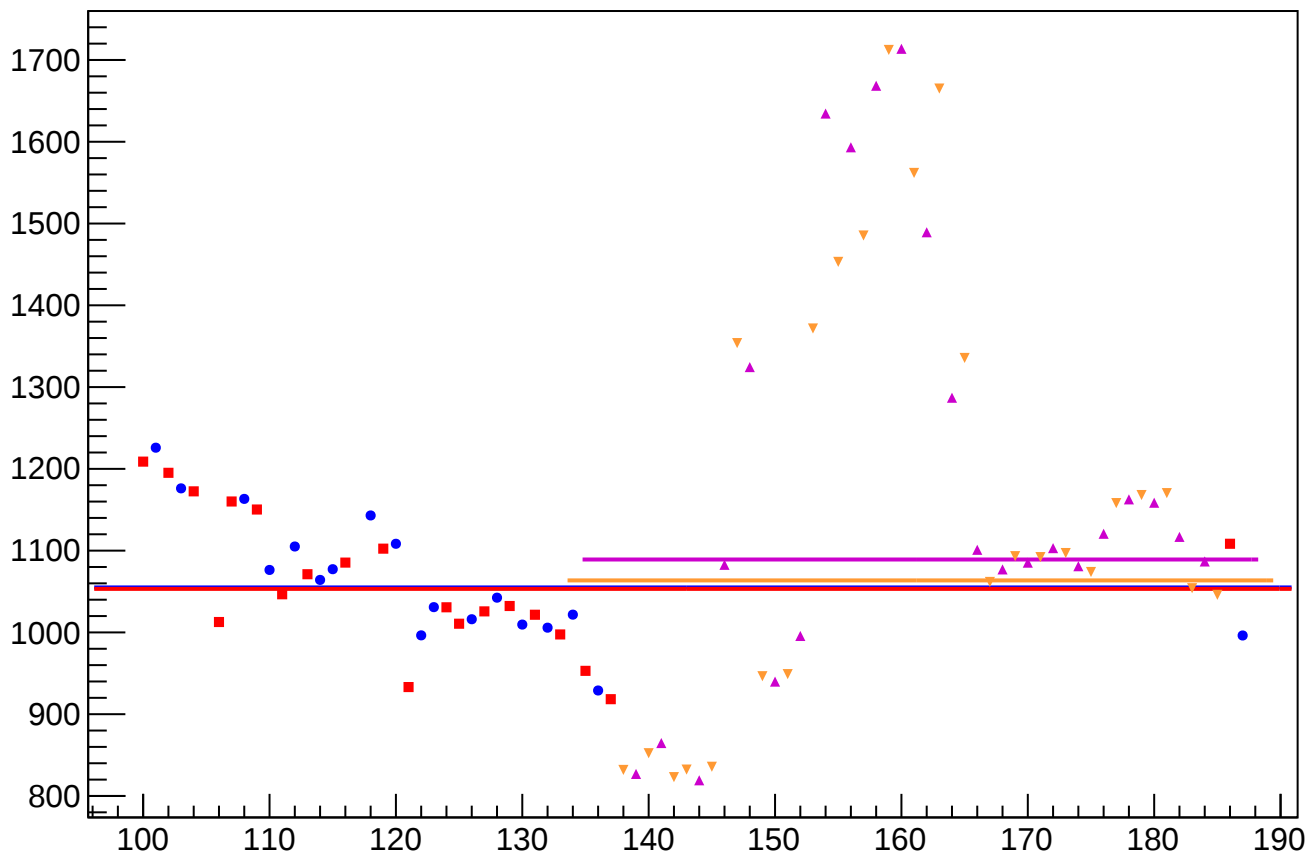
Left In: -0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

+ sign 0.148 ± 0.215 $\chi^2/\text{NDF}: 502.5/42$

All: 0.555 ± 0.154 $\chi^2/\text{NDF}: 928.2/85$

- sign 0.981 ± 0.220 $\chi^2/\text{NDF}: 418.4/42$

diff_bpm0l07Y_rms vs Slug



Right In: 1054.999+/-0.286 χ^2/NDF : 91836.9/17

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

Right Out: 1053.250+/-0.273 χ^2/NDF : 84313.3/19

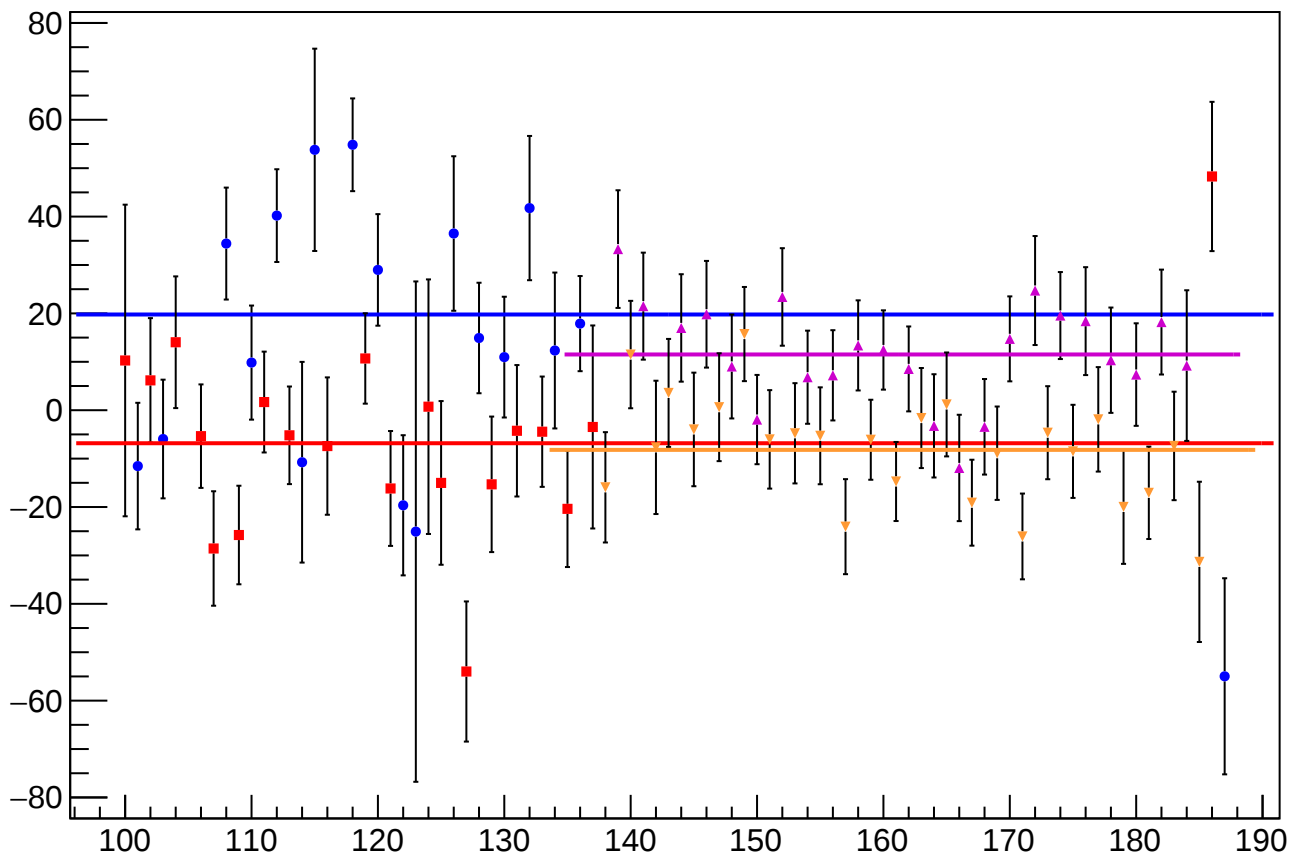
Left In: 1089.154+/-0.190 χ^2/NDF : 1430478.5/22

+ sign 1061.151+/-0.152 χ^2/NDF : 1709862.2/42

All: 1069.097+/-0.109 χ^2/NDF : 3241899.3/85

- sign 1077.410+/-0.156 χ^2/NDF : 1526472.6/42

diff_bpm0l08X_mean vs Slug



Right In: 19.773 ± 3.080 $\chi^2/\text{NDF}: 61.8/17$

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

Right Out: -6.823 ± 2.864 $\chi^2/\text{NDF}: 40.8/19$

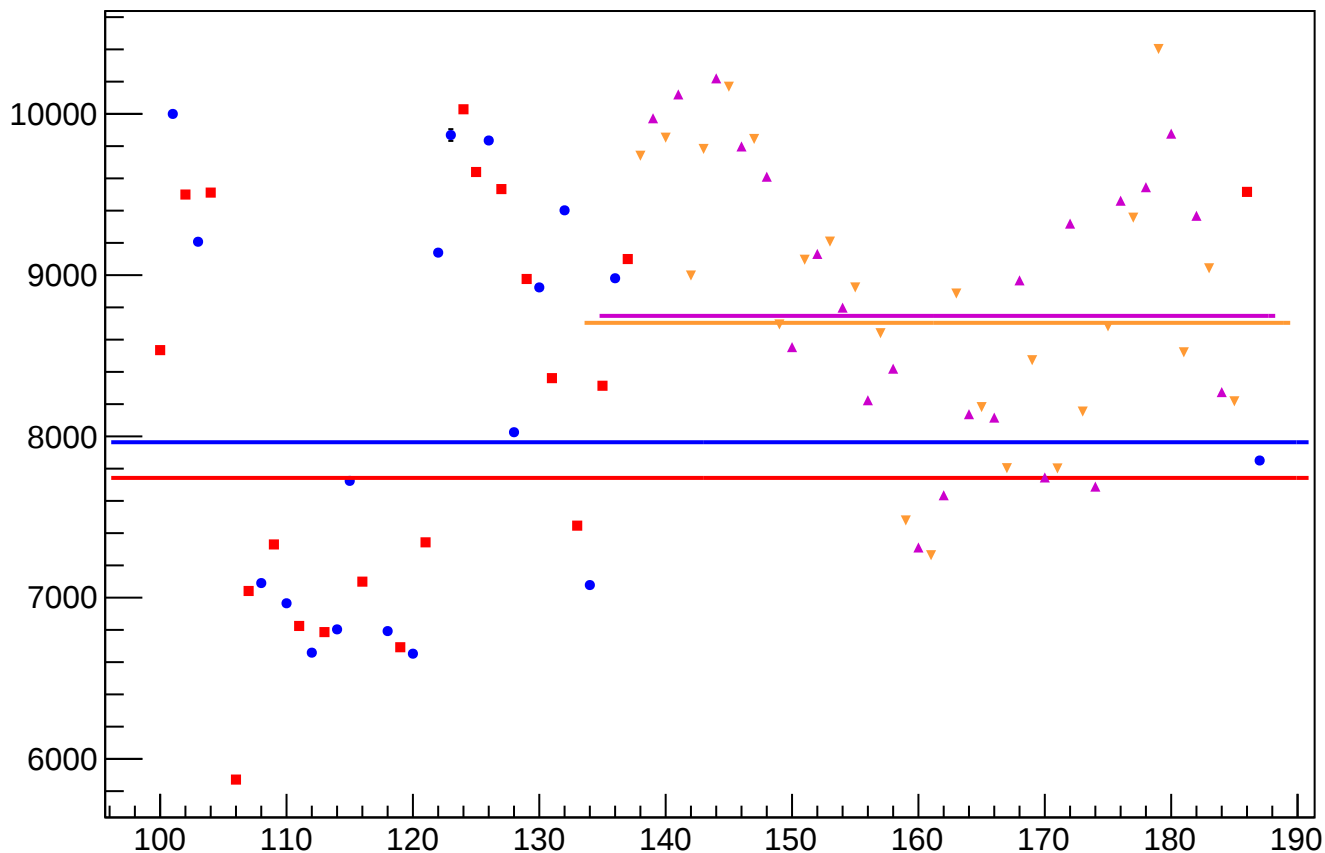
Left In: 11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

+ sign 0.385 ± 1.706 $\chi^2/\text{NDF}: 145.2/42$

All: 2.701 ± 1.206 $\chi^2/\text{NDF}: 237.2/85$

- sign -5.015 ± 1.705 $\chi^2/\text{NDF}: 88.3/42$

diff_bpm0l08X_rms vs Slug



Right In: 7963.771 $\pm$ 2.178 χ^2 /NDF: 295724.2/17

Left Out: 8704.193 $\pm$ 1.449 χ^2 /NDF:332364.3/24

Right Out: 7742.517 $\pm$ 2.025 χ^2 /NDF: 340463.1/19

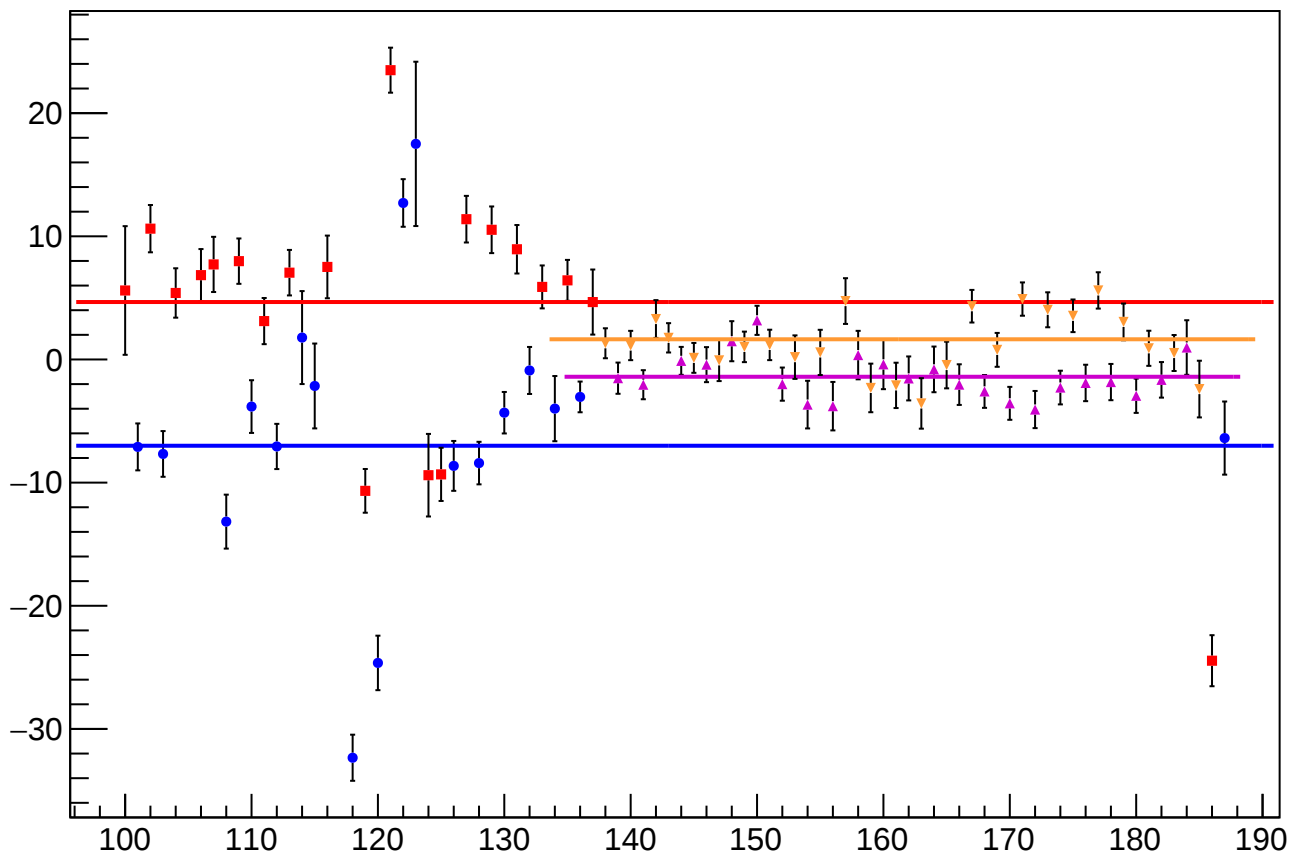
Left In: 8747.415 $\pm$ 1.501 χ^2 /NDF:347110.4/22

+ sign 8477.055 $\pm$ 1.206 χ^2 /NDF: 708231.2/42

All: 8434.125 $\pm$ 0.853 χ^2 /NDF: 1557267.5/85

- sign 8391.221 $\pm$ 1.206 χ^2 /NDF: 846503.4/42

diff_bpm0l08Y_mean vs Slug



Right In: -7.006 ± 0.481 χ^2/NDF : 407.3/17

Left Out: 1.639 ± 0.294 χ^2/NDF : 51.3/24

Right Out: 4.664 ± 0.456 χ^2/NDF : 486.0/19

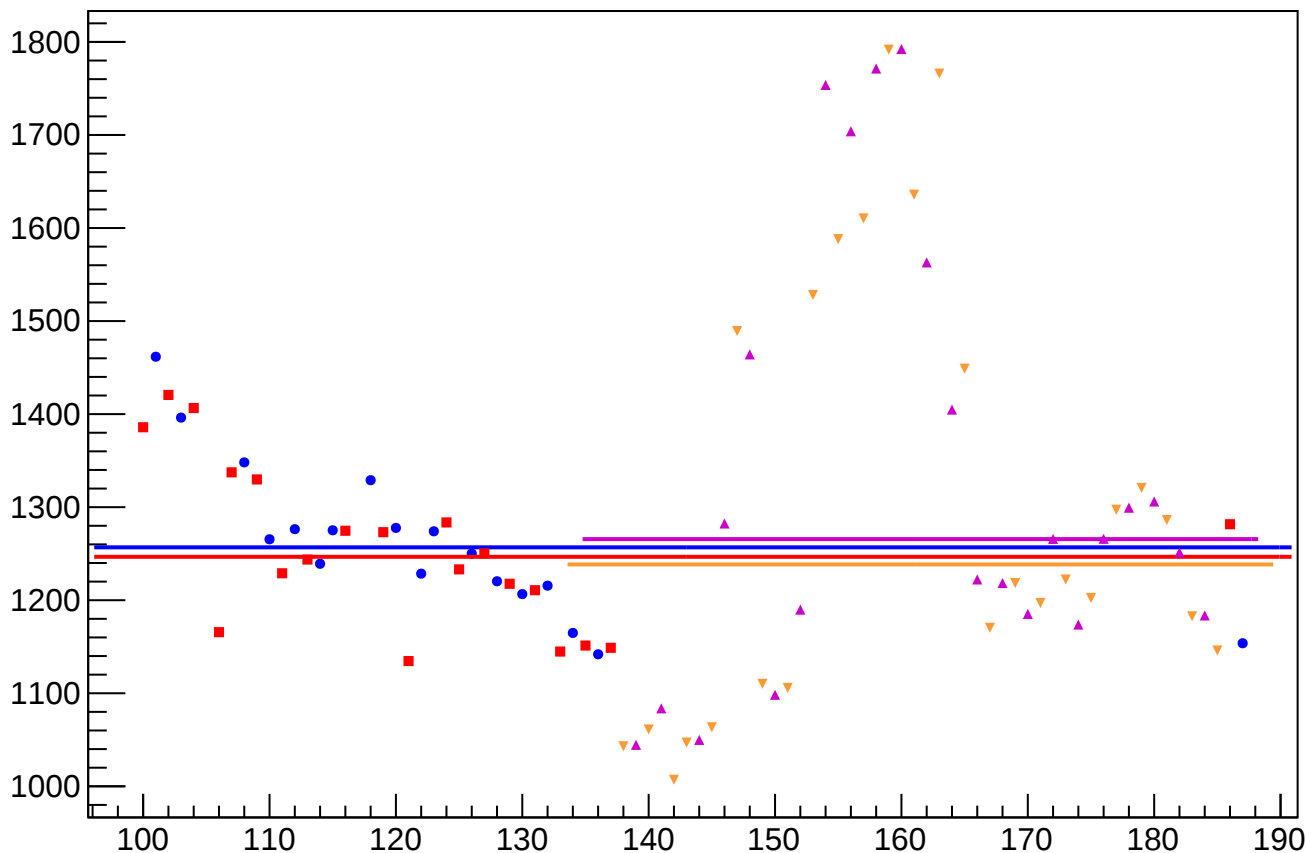
Left In: -1.404 ± 0.309 χ^2/NDF : 34.1/22

+ sign -0.710 ± 0.251 χ^2/NDF : 694.2/42

All: -0.115 ± 0.179 χ^2/NDF : 1347.3/85

- sign 0.505 ± 0.256 χ^2/NDF : 641.5/42

diff_bpm0l08Y_rms vs Slug



Right In: 1256.828 $\pm$ 0.340 χ^2 /NDF: 67291.9/17

Left Out: 1238.437 $\pm$ 0.208 χ^2 /NDF: 965173.0/24

Right Out: 1246.656 $\pm$ 0.322 χ^2 /NDF: 67419.6/19

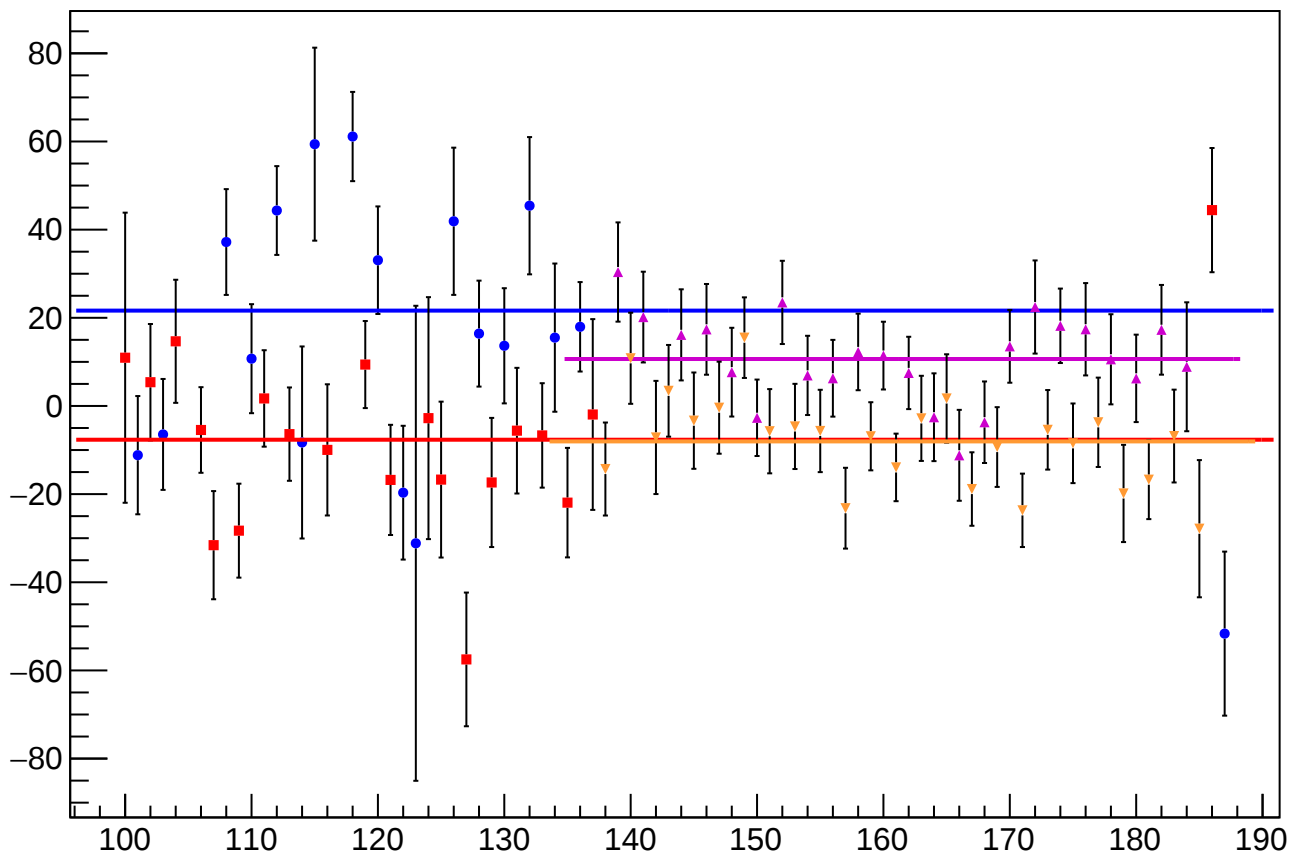
Left In: 1265.673 $\pm$ 0.218 χ^2 /NDF: 845157.0/22

+ sign 1243.435 $\pm$ 0.177 χ^2 /NDF: 1034597.5/42

All: 1251.394 $\pm$ 0.127 χ^2 /NDF: 1953679.7/85

- sign 1259.689 $\pm$ 0.181 χ^2 /NDF: 914960.6/42

diff_bpm0l09X_mean vs Slug



Right In: 21.632 ± 3.208 $\chi^2/\text{NDF}: 68.0/17$

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

Right Out: -7.661 ± 2.942 $\chi^2/\text{NDF}: 42.4/19$

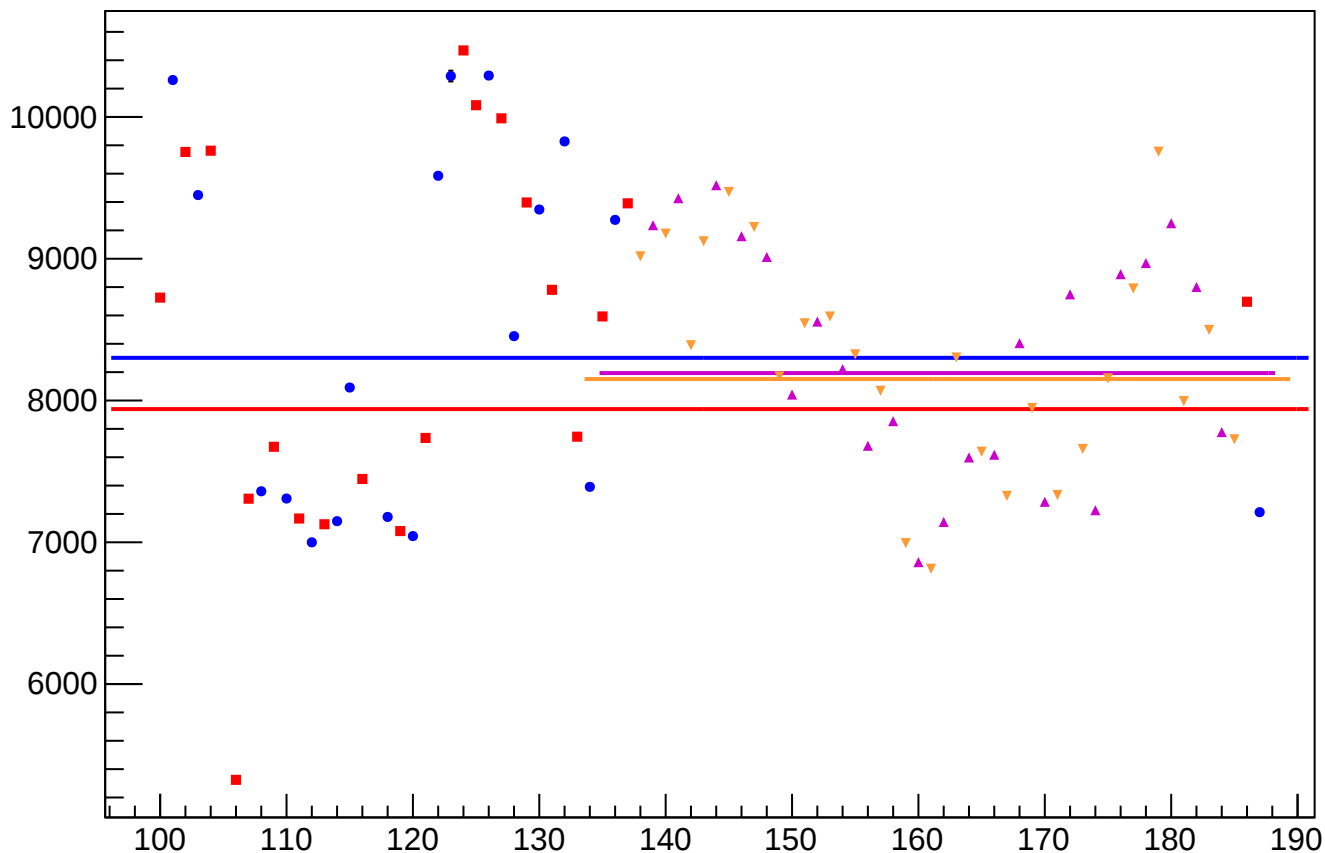
Left In: 10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

+ sign -0.226 ± 1.646 $\chi^2/\text{NDF}: 157.3/42$

All: 2.343 ± 1.164 $\chi^2/\text{NDF}: 252.6/85$

- sign 4.914 ± 1.647 $\chi^2/\text{NDF}: 90.4/42$

diff_bpm0l09X_rms vs Slug



Right In: 8301.096 $\pm$ 2.268 χ^2 /NDF: 278421.4/17

Left Out: 8151.489 $\pm$ 1.356 χ^2 /NDF: 321803.3/24

Right Out: 7939.506 $\pm$ 2.081 χ^2 /NDF: 394635.0/19

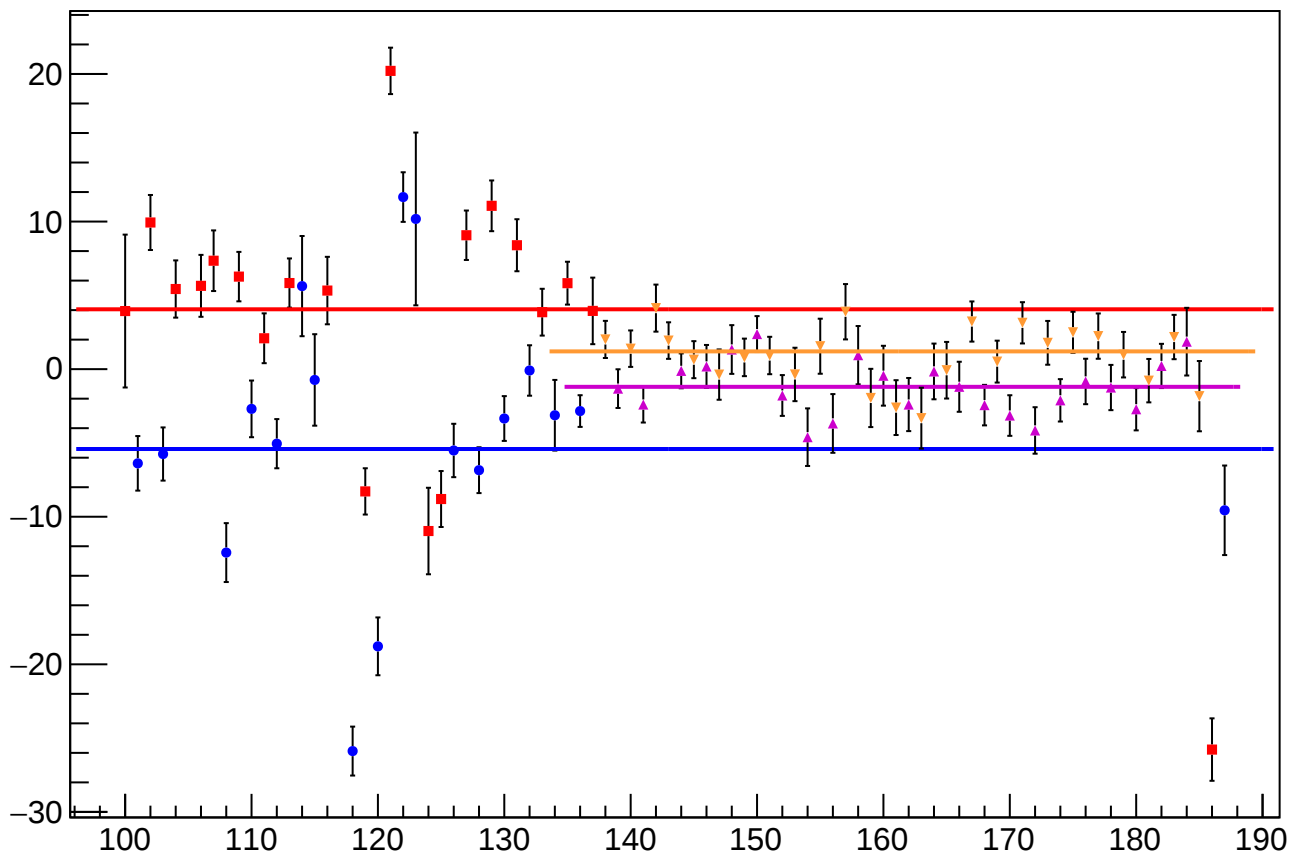
Left In: 8193.636 $\pm$ 1.405 χ^2 /NDF: 338377.6/22

+ sign 8190.898 $\pm$ 1.164 χ^2 /NDF: 603429.5/42

All: 8152.471 $\pm$ 0.823 χ^2 /NDF: 1348867.6/85

- sign 8114.008 $\pm$ 1.165 χ^2 /NDF: 743257.5/42

diff_bpm0l09Y_mean vs Slug



Right In: -5.411 ± 0.433 χ^2/NDF : 357.8/17

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

Right Out: 4.056 ± 0.414 χ^2/NDF : 489.9/19

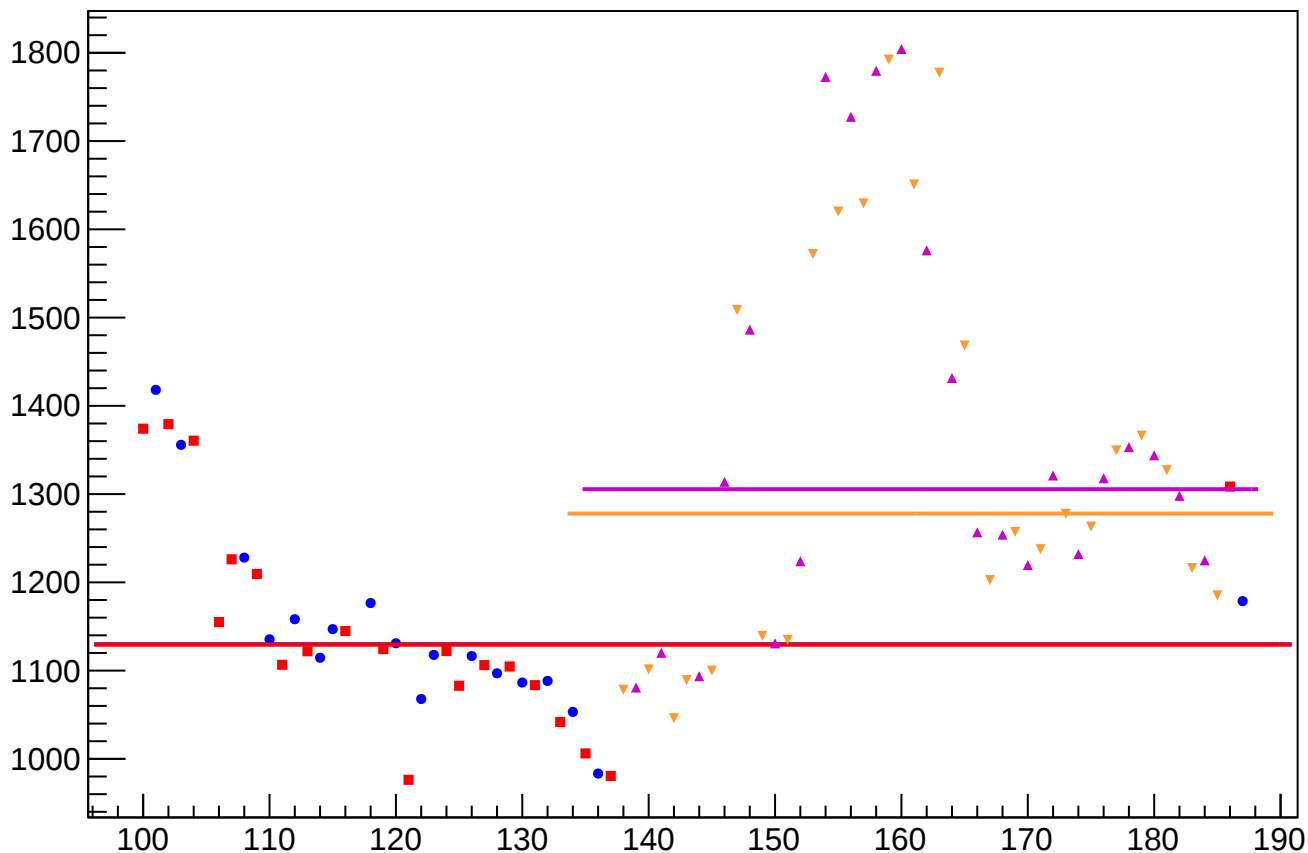
Left In: -1.198 ± 0.318 χ^2/NDF : 31.2/22

+ sign -0.964 ± 0.248 χ^2/NDF : 544.5/42

All: -0.121 ± 0.177 χ^2/NDF : 1190.2/85

- sign 0.752 ± 0.252 χ^2/NDF : 622.2/42

diff_bpm0l09Y_rms vs Slug



Right In: 1129.816 $\pm$ 0.306 χ^2 /NDF: 133608.5/17

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

Right Out: 1129.445 $\pm$ 0.293 χ^2 /NDF: 144513.4/19

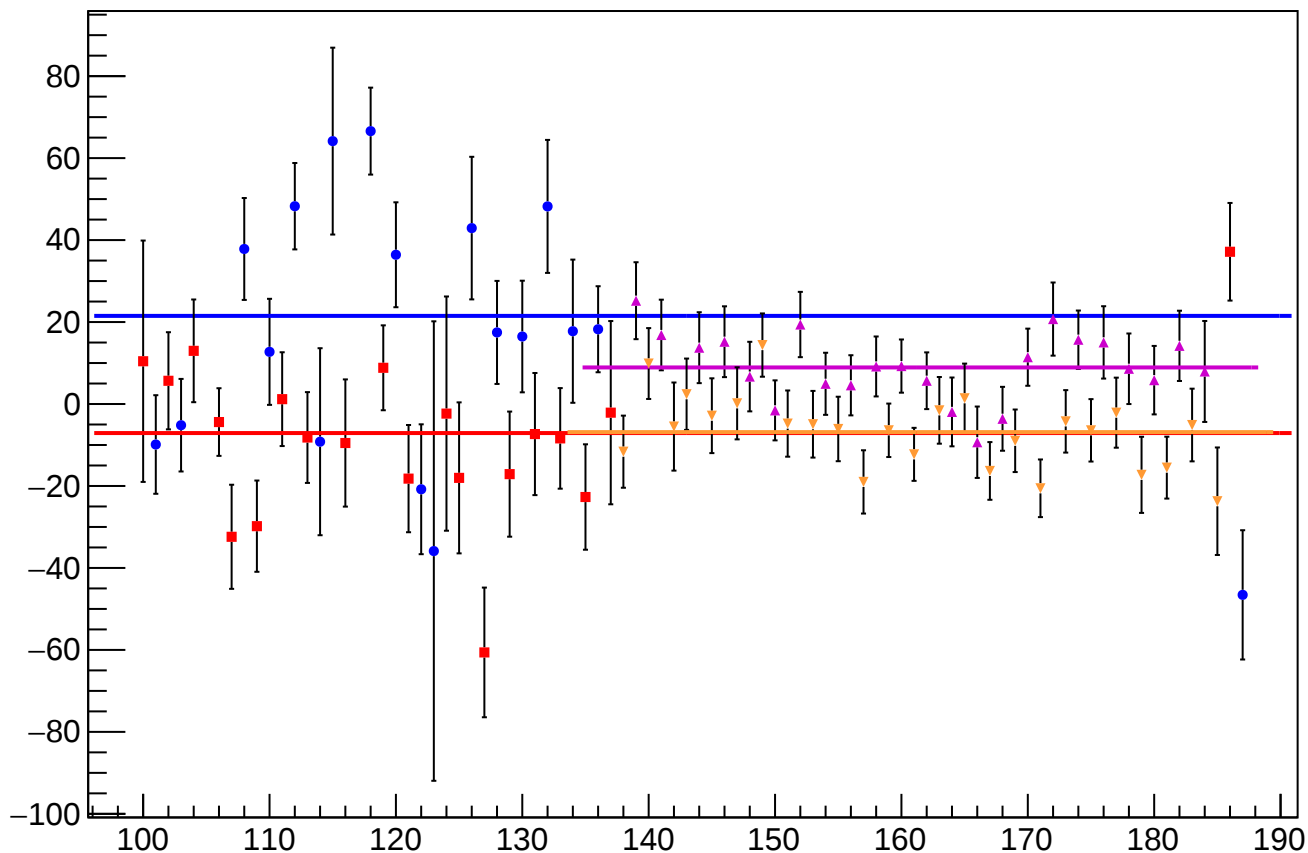
Left In: 1305.541 $\pm$ 0.225 χ^2 /NDF: 760450.8/22

+ sign 1229.377 $\pm$ 0.175 χ^2 /NDF: 1168915.8/42

All: 1234.695 $\pm$ 0.125 χ^2 /NDF: 2303110.8/85

- sign 1240.200 $\pm$ 0.178 χ^2 /NDF: 1132323.1/42

diff_bpm0l10X_mean vs Slug



Right In: 21.504 ± 3.252 $\chi^2/\text{NDF}: 77.2/17$

Left Out: -6.854 ± 1.616 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -7.086 ± 2.919 $\chi^2/\text{NDF}: 43.5/19$

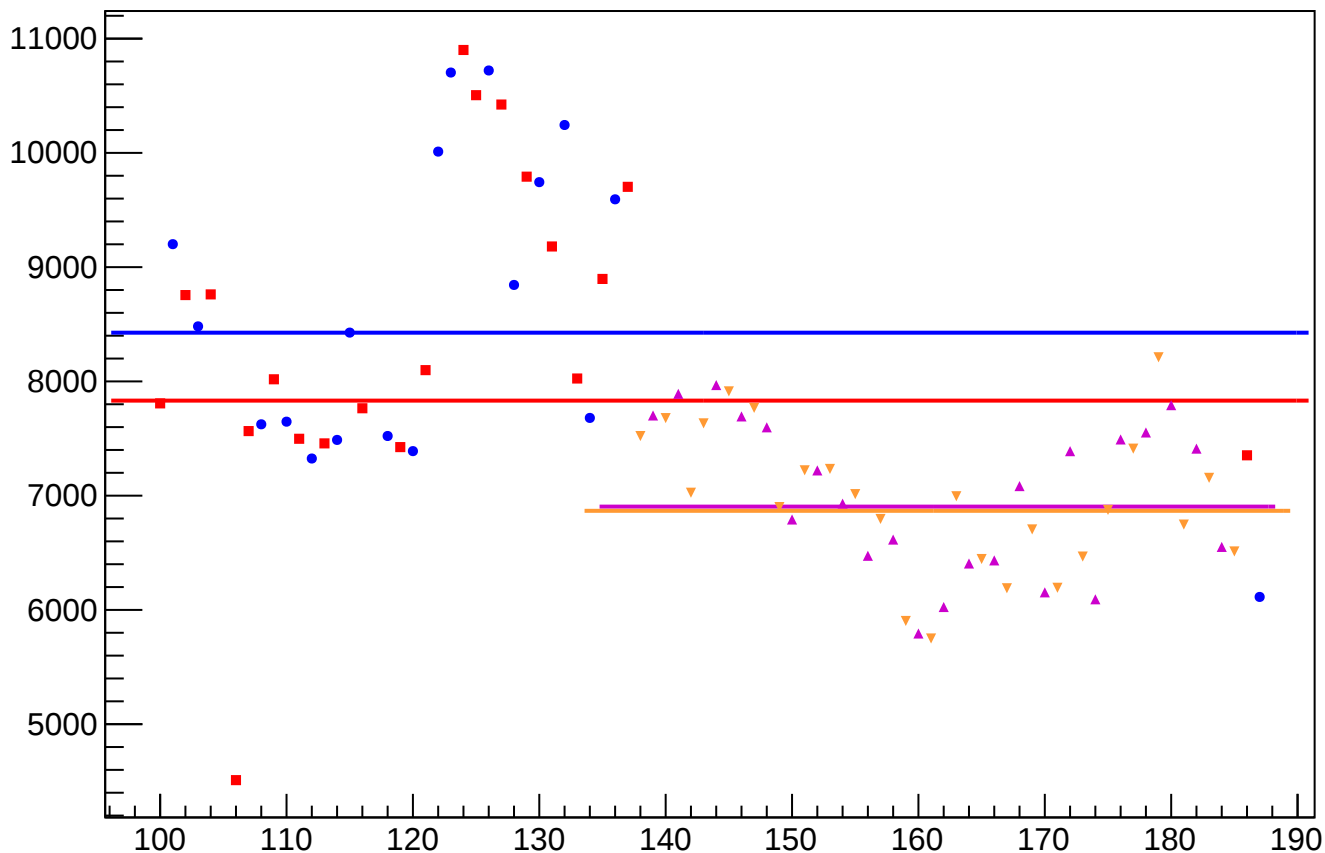
Left In: 8.923 ± 1.674 $\chi^2/\text{NDF}: 21.8/22$

+ sign -1.242 ± 1.447 $\chi^2/\text{NDF}: 166.8/42$

All: 1.847 ± 1.025 $\chi^2/\text{NDF}: 263.9/85$

- sign 4.959 ± 1.452 $\chi^2/\text{NDF}: 88.0/42$

diff_bpm0l10X_rms vs Slug



Right In: 8426.418+/-2.300 χ^2/NDF : 252313.6/17

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

Right Out: 7831.873+/-2.064 χ^2/NDF : 556261.0/19

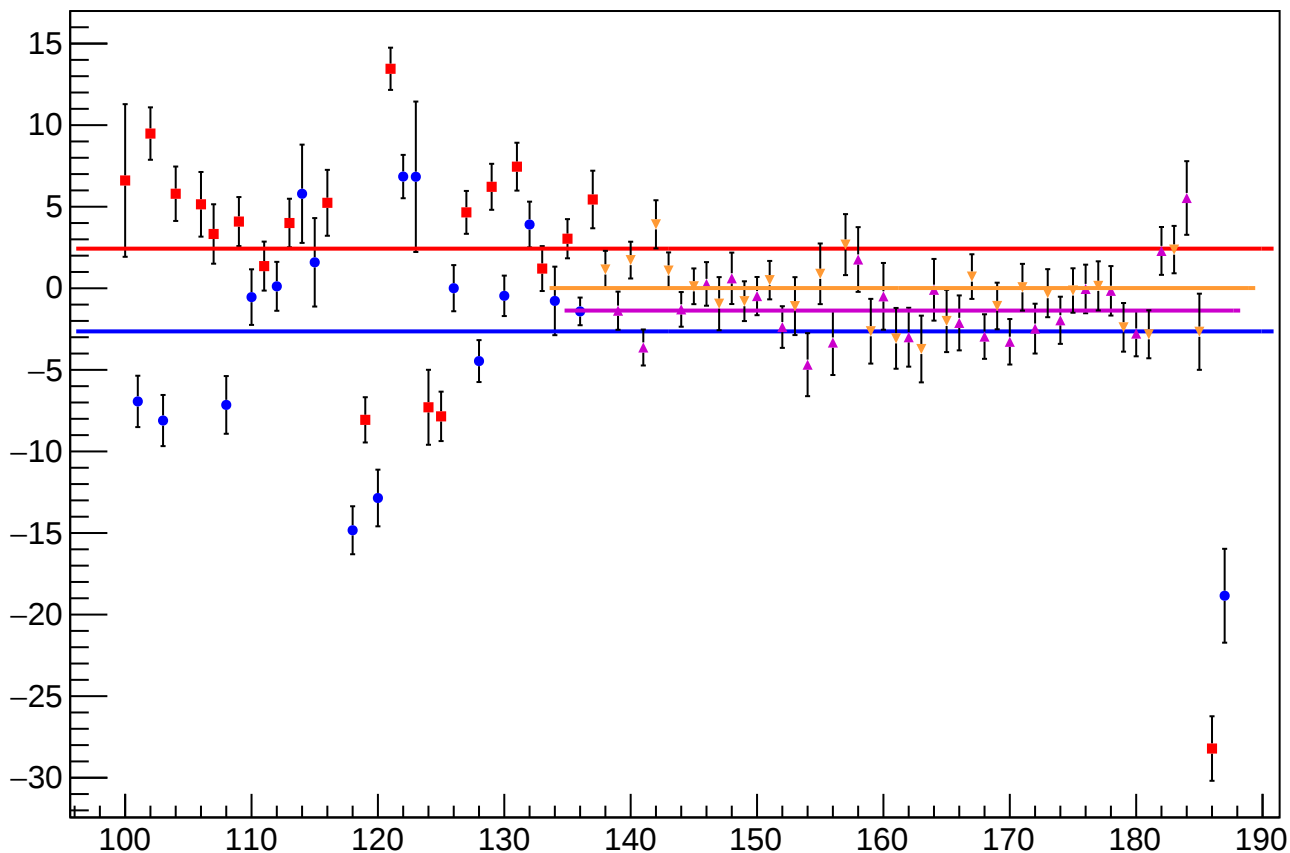
Left In: 6904.117+/-1.184 χ^2/NDF : 325912.6/22

+ sign 7175.898+/-1.023 χ^2/NDF : 927803.4/42

All: 7154.941+/-0.725 χ^2/NDF : 1962862.4/85

- sign 7133.827+/-1.027 χ^2/NDF : 1034216.7/42

diff_bpm0l10Y_mean vs Slug



Right In: -2.642 ± 0.363 χ^2/NDF : 264.8/17

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

Right Out: 2.430 ± 0.353 χ^2/NDF : 490.6/19

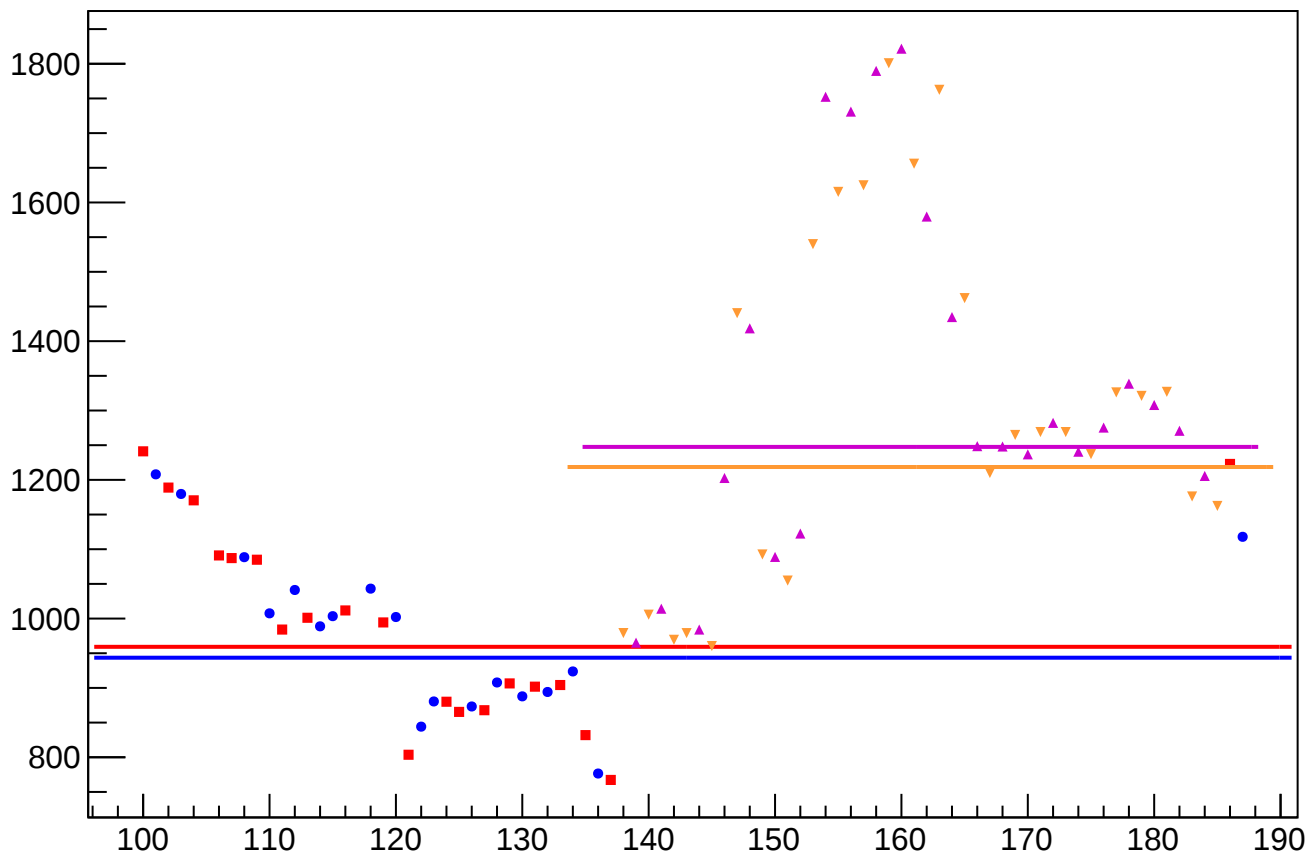
Left In: -1.365 ± 0.306 χ^2/NDF : 38.5/22

+ sign -1.019 ± 0.227 χ^2/NDF : 332.5/42

All: -0.392 ± 0.162 χ^2/NDF : 943.2/85

- sign 0.259 ± 0.231 χ^2/NDF : 595.1/42

diff_bpm0l10Y_rms vs Slug



Right In: 943.558+/-0.257 χ^2/NDF : 249168.3/17

Left Out: 1218.543+/-0.205 χ^2/NDF : 1265847.5/24

Right Out: 959.255+/-0.250 χ^2/NDF : 257069.6/19

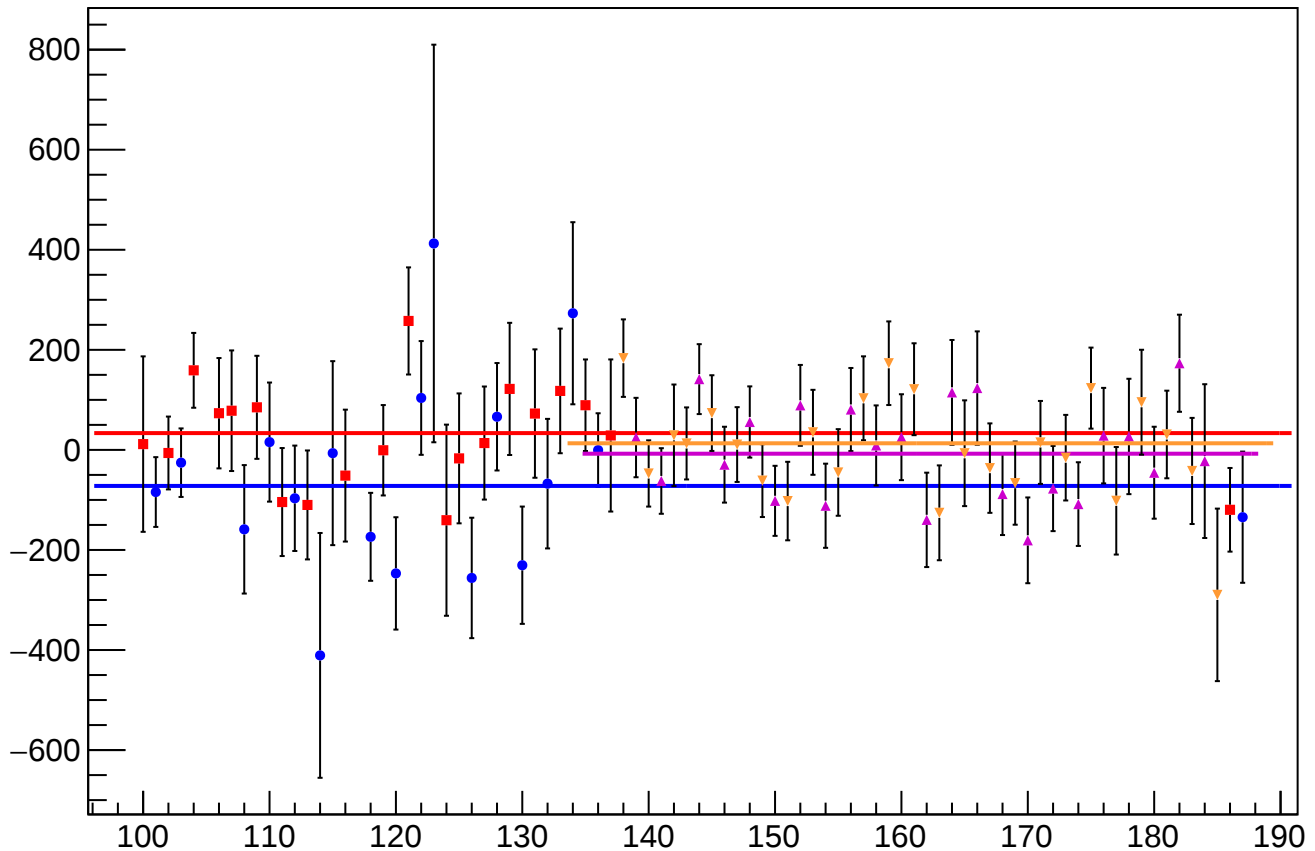
Left In: 1247.538+/-0.216 χ^2/NDF : 1073390.3/22

+ sign 1111.549+/-0.160 χ^2/NDF : 2215063.1/42

All: 1117.719+/-0.114 χ^2/NDF : 4310904.8/85

- sign 1124.133+/-0.163 χ^2/NDF : 2092817.4/42

diff_bpm0r03X_mean vs Slug



Right In: -72.013 ± 25.485 χ^2/NDF : 21.8/17

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

Right Out: 33.576 ± 24.000 χ^2/NDF : 17.7/19

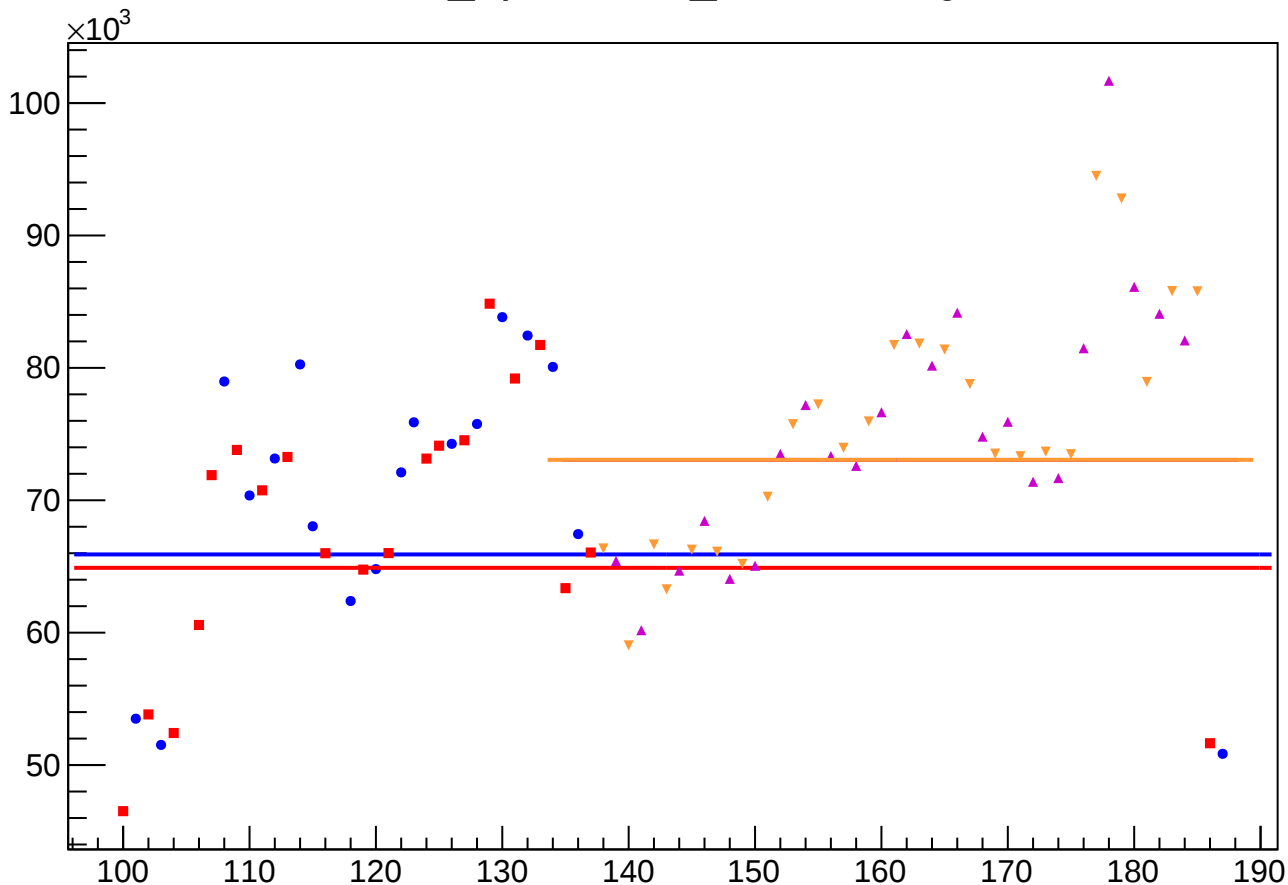
Left In: -7.618 ± 17.672 χ^2/NDF : 28.1/22

+ sign -13.347 ± 14.226 χ^2/NDF : 56.3/42

All: -3.244 ± 10.061 χ^2/NDF : 105.0/85

- sign 6.864 ± 14.230 χ^2/NDF : 47.7/42

diff_bpm0r03X_rms vs Slug



Right In: 65908.732 ± 18.021 $\chi^2/\text{NDF}: 347468.0/17$

Left Out: 73054.401 ± 12.124 $\chi^2/\text{NDF}: 473050.9/24$

Right Out: 64896.611 ± 16.970 $\chi^2/\text{NDF}: 352994.4/19$

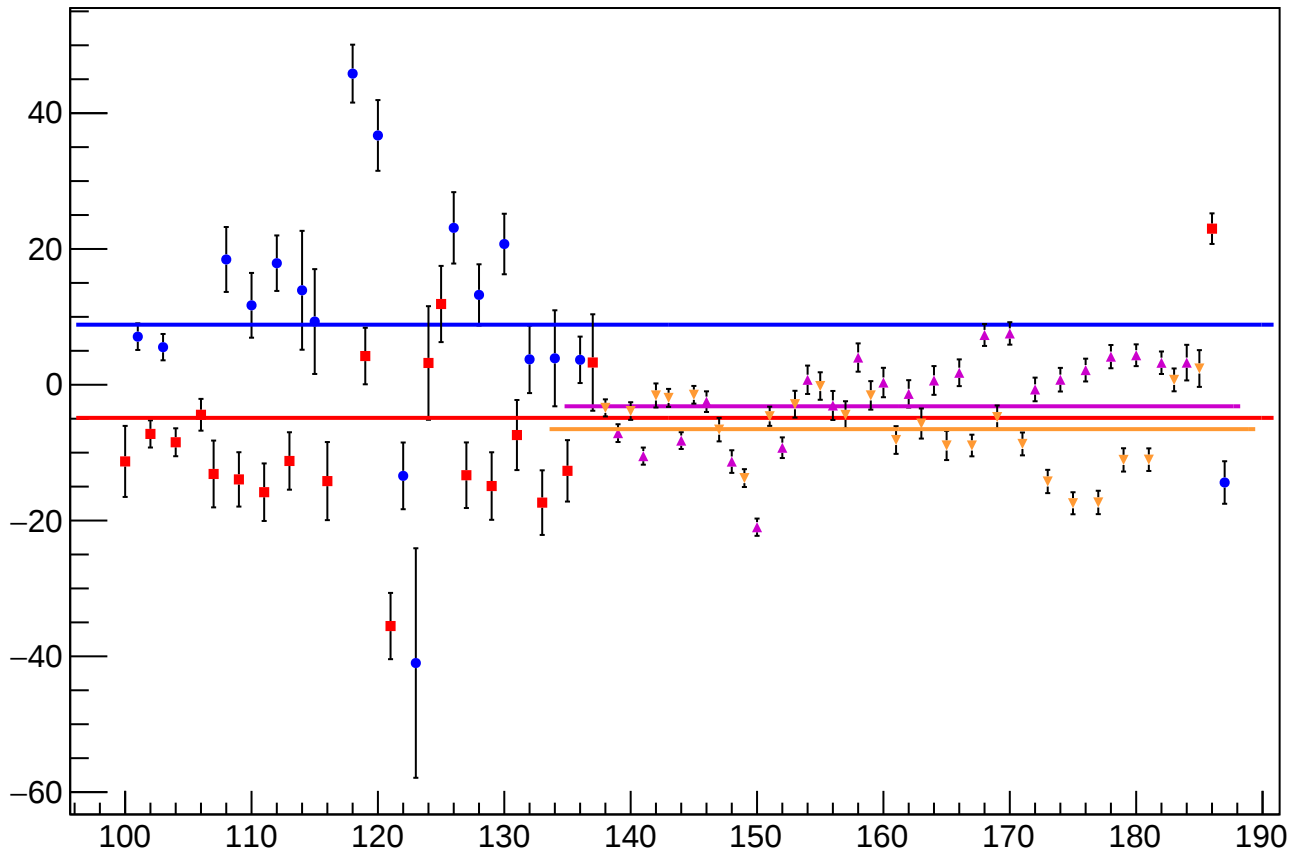
Left In: 73045.500 ± 12.496 $\chi^2/\text{NDF}: 463525.5/22$

+ sign 70827.828 ± 10.059 $\chi^2/\text{NDF}: 928756.0/42$

All: 70504.320 ± 7.114 $\chi^2/\text{NDF}: 1896858.8/84$

- sign 70180.632 ± 10.062 $\chi^2/\text{NDF}: 966033.7/42$

diff_bpm0r03Y_mean vs Slug



Right In: 8.847 ± 0.904 χ^2/NDF : 220.7/17

Left Out: -6.537 ± 0.332 χ^2/NDF : 252.7/24

Right Out: -4.877 ± 0.809 χ^2/NDF : 251.2/19

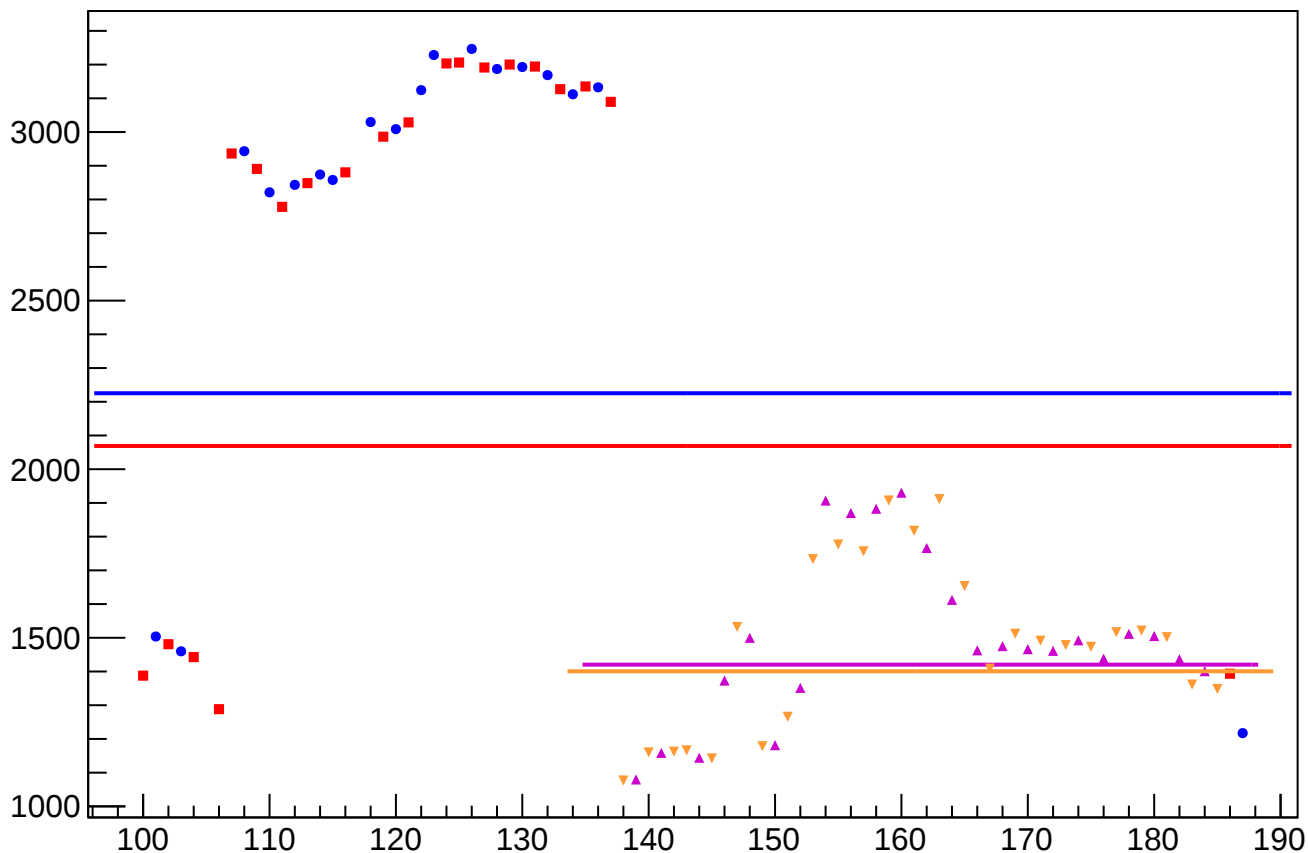
Left In: -3.171 ± 0.346 χ^2/NDF : 487.3/22

+ sign -4.710 ± 0.311 χ^2/NDF : 728.6/42

All: -4.087 ± 0.223 χ^2/NDF : 1479.1/85

- sign -3.435 ± 0.318 χ^2/NDF : 742.3/42

diff_bpm0r03Y_rms vs Slug



Right In: 2225.324+/-0.639 χ^2/NDF : 1631007.8/17

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

Right Out: 2068.952+/-0.572 χ^2/NDF : 1955627.2/19

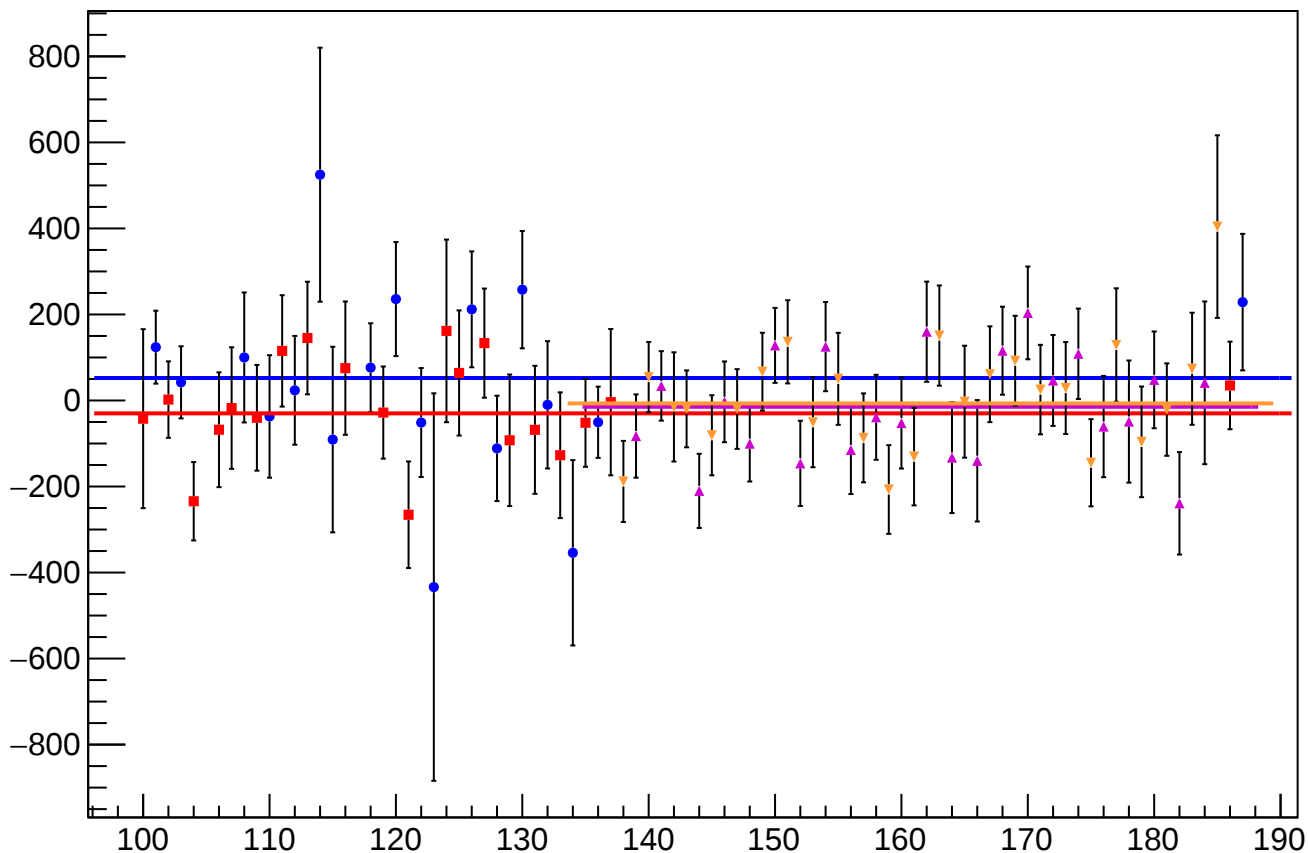
Left In: 1420.285+/-0.245 χ^2/NDF : 905186.2/22

+ sign 1498.547+/-0.220 χ^2/NDF : 4135677.8/42

All: 1509.408+/-0.157 χ^2/NDF : 8087458.7/85

- sign 1520.762+/-0.225 χ^2/NDF : 3946807.6/42

diff_bpm0r05X_mean vs Slug



Right In: 52.257 $\pm$ 29.926 χ^2 /NDF: 20.0/17

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

Right Out: -29.950 $\pm$ 28.317 χ^2 /NDF: 16.4/19

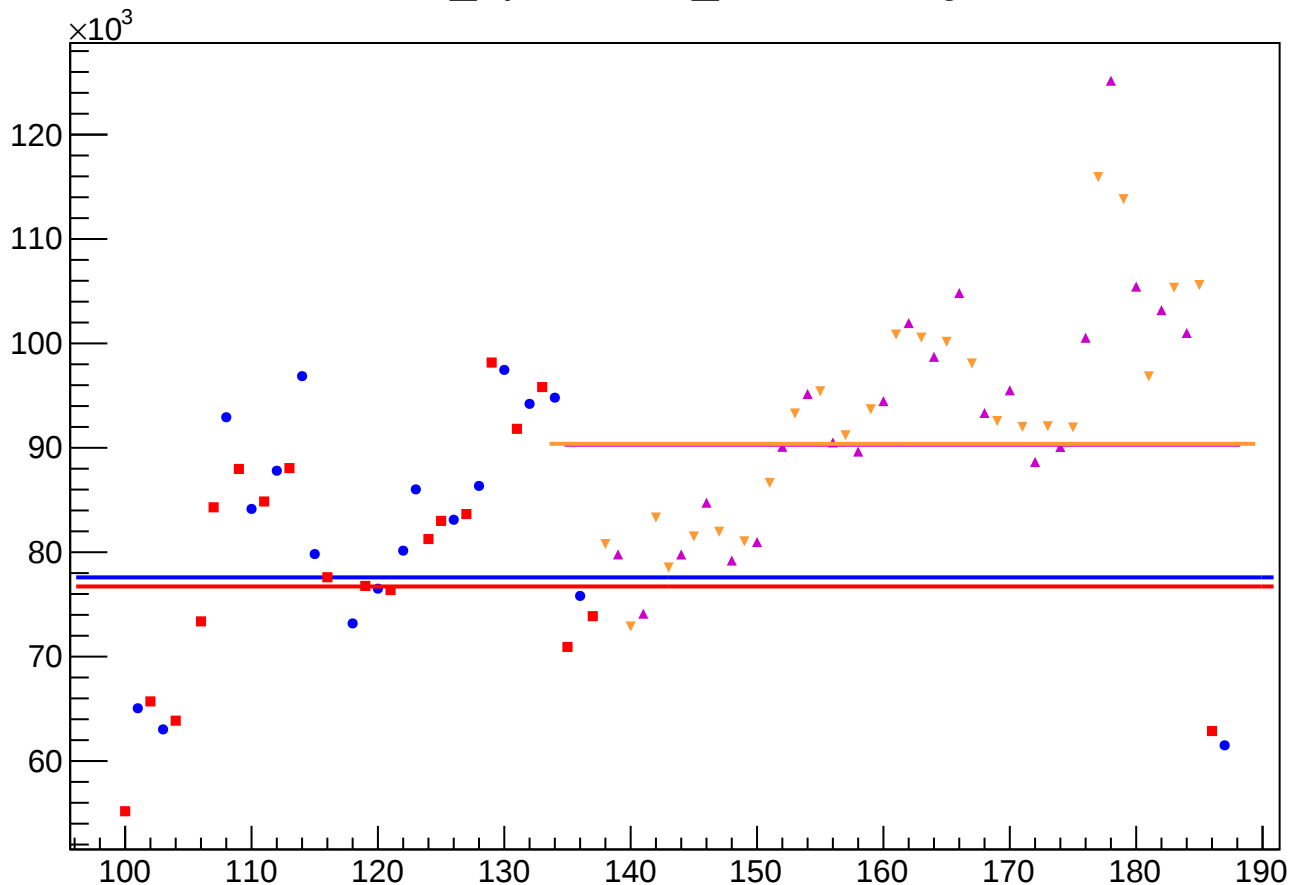
Left In: -14.611 $\pm$ 21.846 χ^2 /NDF: 29.8/22

+ sign 12.957 $\pm$ 17.306 χ^2 /NDF: 47.3/42

All: -3.698 $\pm$ 12.234 χ^2 /NDF: 95.6/85

- sign -20.334 $\pm$ 17.297 χ^2 /NDF: 46.4/42

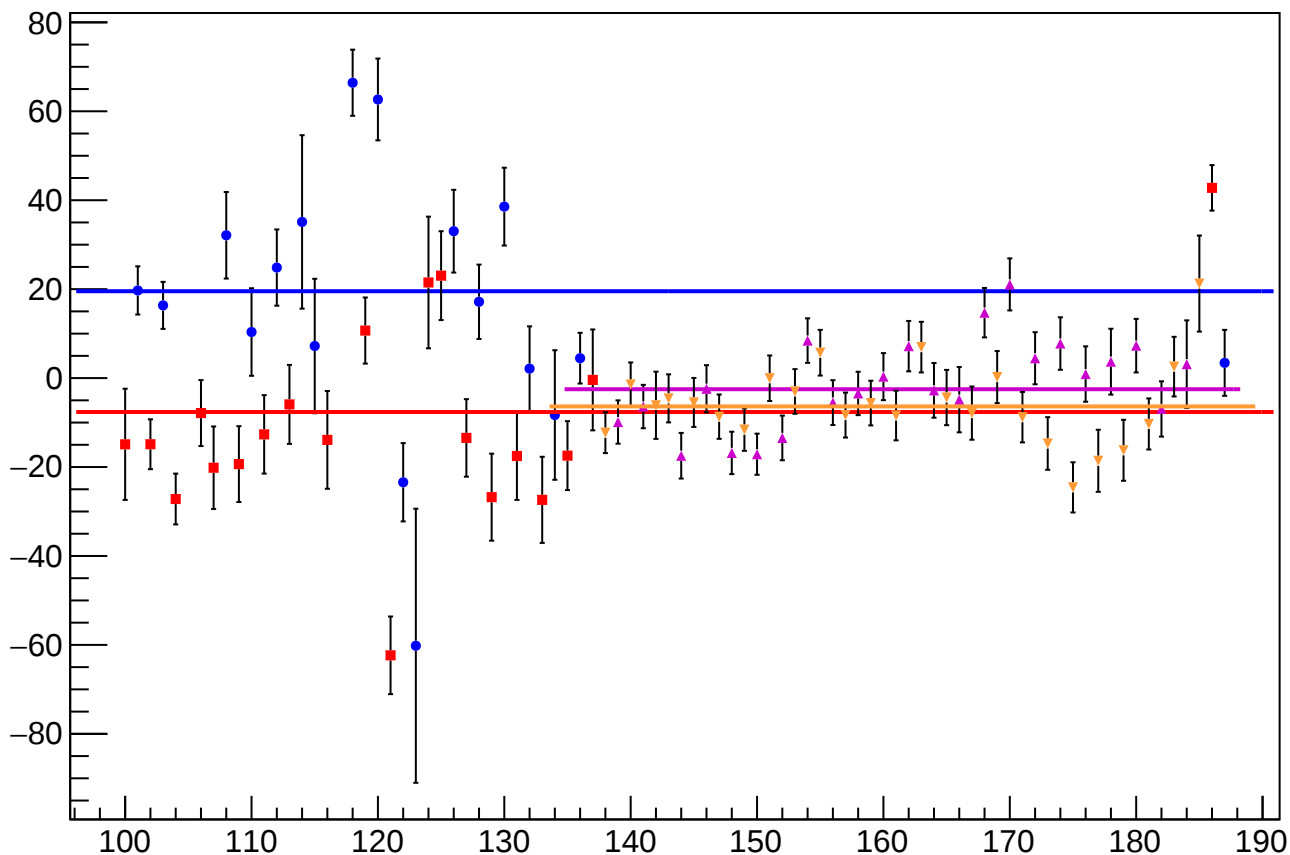
diff_bpm0r05X_rms vs Slug



Right In: 77590.135 $\pm$ 21.161 χ^2 /NDF: 271596.2/17
 Left Out: 90384.853 $\pm$ 15.000 χ^2 /NDF: 461648.2/24
 Right Out: 76719.924 $\pm$ 20.023 χ^2 /NDF: 287354.9/19
 Left In: 90293.591 $\pm$ 15.448 χ^2 /NDF: 461337.5/22

+ sign 86105.999 $\pm$ 12.237 χ^2 /NDF: 976564.9/42
 All: 85667.315 $\pm$ 8.651 χ^2 /NDF: 2015906.6/8
 - sign 85229.103 $\pm$ 12.231 χ^2 /NDF: 1036772.9/42

diff_bpm0r05Y_mean vs Slug



Right In: 19.536 ± 1.966 $\chi^2/\text{NDF}: 122.4/17$

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

Right Out: -7.629 ± 1.828 $\chi^2/\text{NDF}: 185.3/19$

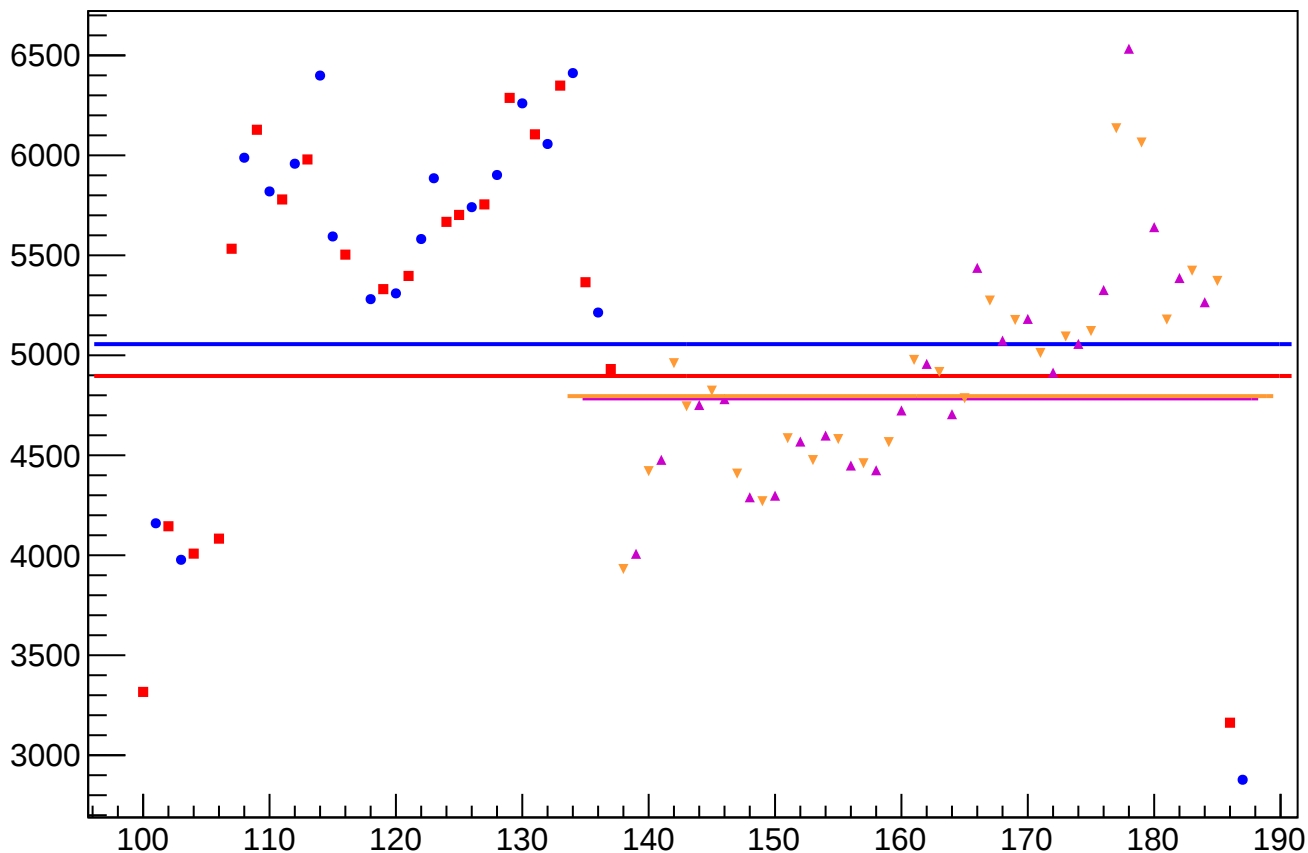
Left In: -2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

+ sign 0.012 ± 0.976 $\chi^2/\text{NDF}: 298.8/42$

All: -1.974 ± 0.690 $\chi^2/\text{NDF}: 576.4/85$

- sign -3.965 ± 0.977 $\chi^2/\text{NDF}: 269.3/42$

diff_bpm0r05Y_rms vs Slug



Right In: 5055.802 $\pm$ 1.390 χ^2 /NDF: 497257.0/17

Left Out: 4795.847 $\pm$ 0.795 χ^2 /NDF: 361249.7/24

Right Out: 4896.577 $\pm$ 1.293 χ^2 /NDF: 650805.2/19

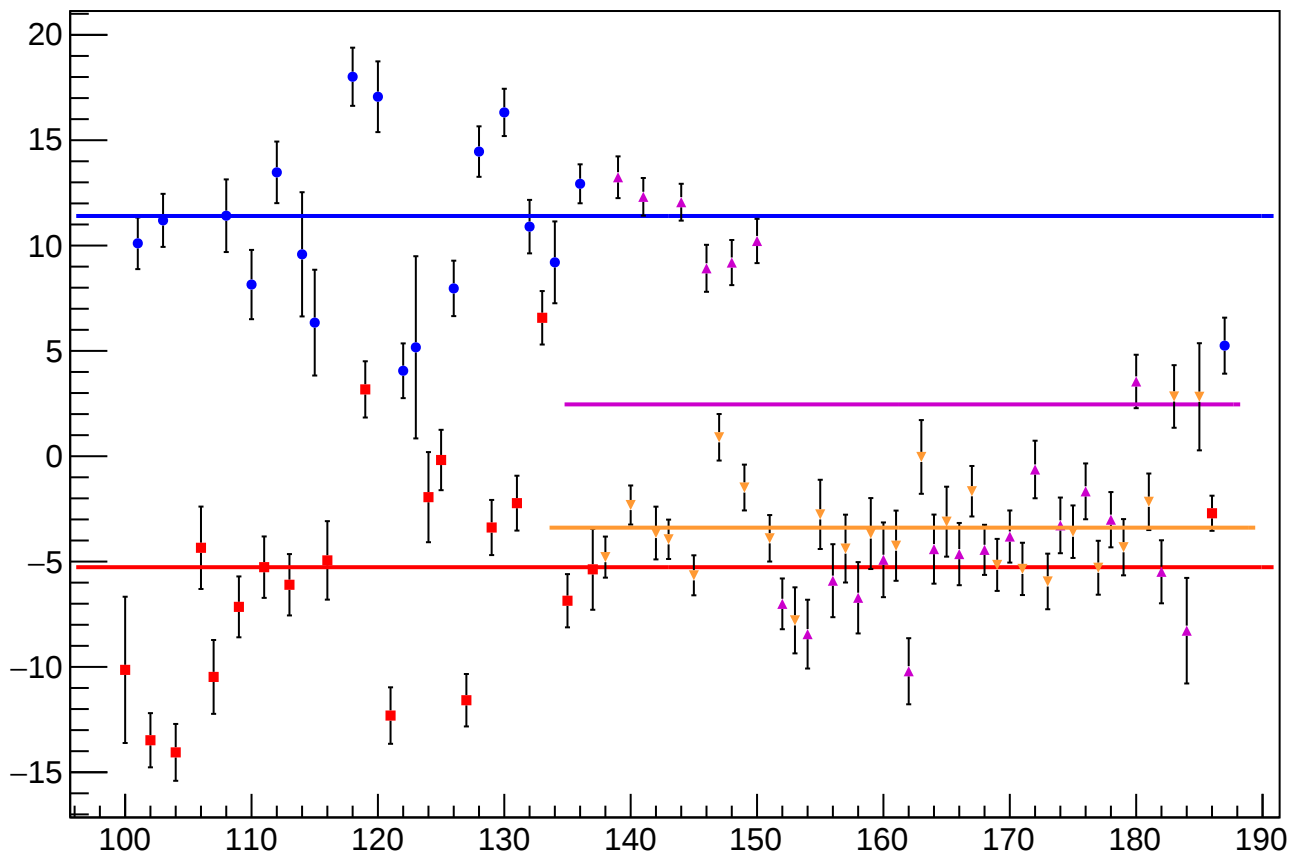
Left In: 4784.434 $\pm$ 0.817 χ^2 /NDF: 357507.2/22

+ sign 4859.892 $\pm$ 0.690 χ^2 /NDF: 884869.3/42

All: 4838.206 $\pm$ 0.488 χ^2 /NDF: 1900536.3/85

- sign 4816.458 $\pm$ 0.691 χ^2 /NDF: 1013687.9/42

diff_bpm2i01X_mean vs Slug



Right In: 11.404 ± 0.334 $\chi^2/\text{NDF}: 138.0/17$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: -5.267 ± 0.314 $\chi^2/\text{NDF}: 310.2/19$

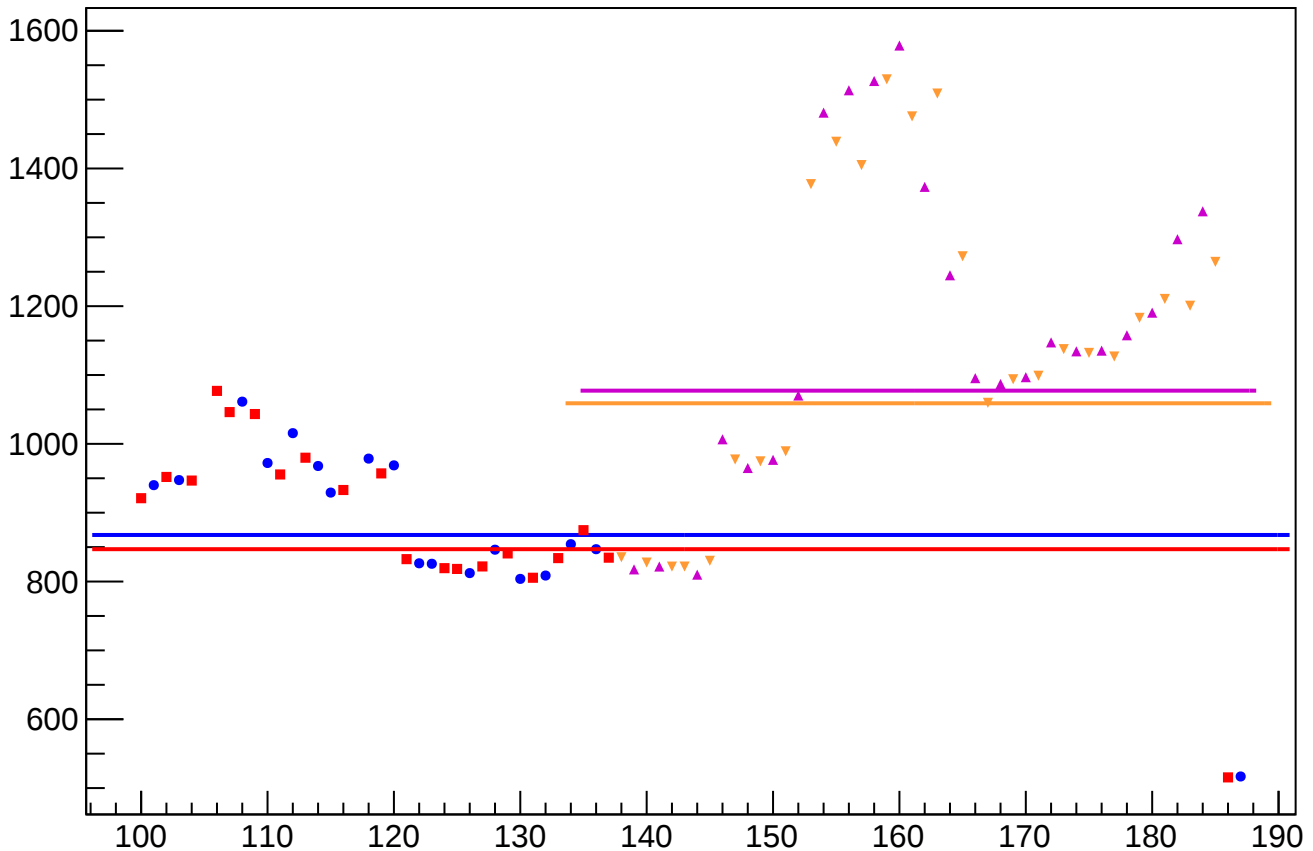
Left In: 2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

+ sign 1.982 ± 0.201 $\chi^2/\text{NDF}: 1464.6/42$

All: 0.626 ± 0.143 $\chi^2/\text{NDF}: 3148.2/85$

- sign -0.743 ± 0.202 $\chi^2/\text{NDF}: 1592.4/42$

diff_bpm2i01X_rms vs Slug



Right In: 867.653 $\pm$ 0.236 χ^2 /NDF: 249971.8/17

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

Right Out: 847.008 $\pm$ 0.222 χ^2 /NDF: 482900.2/19

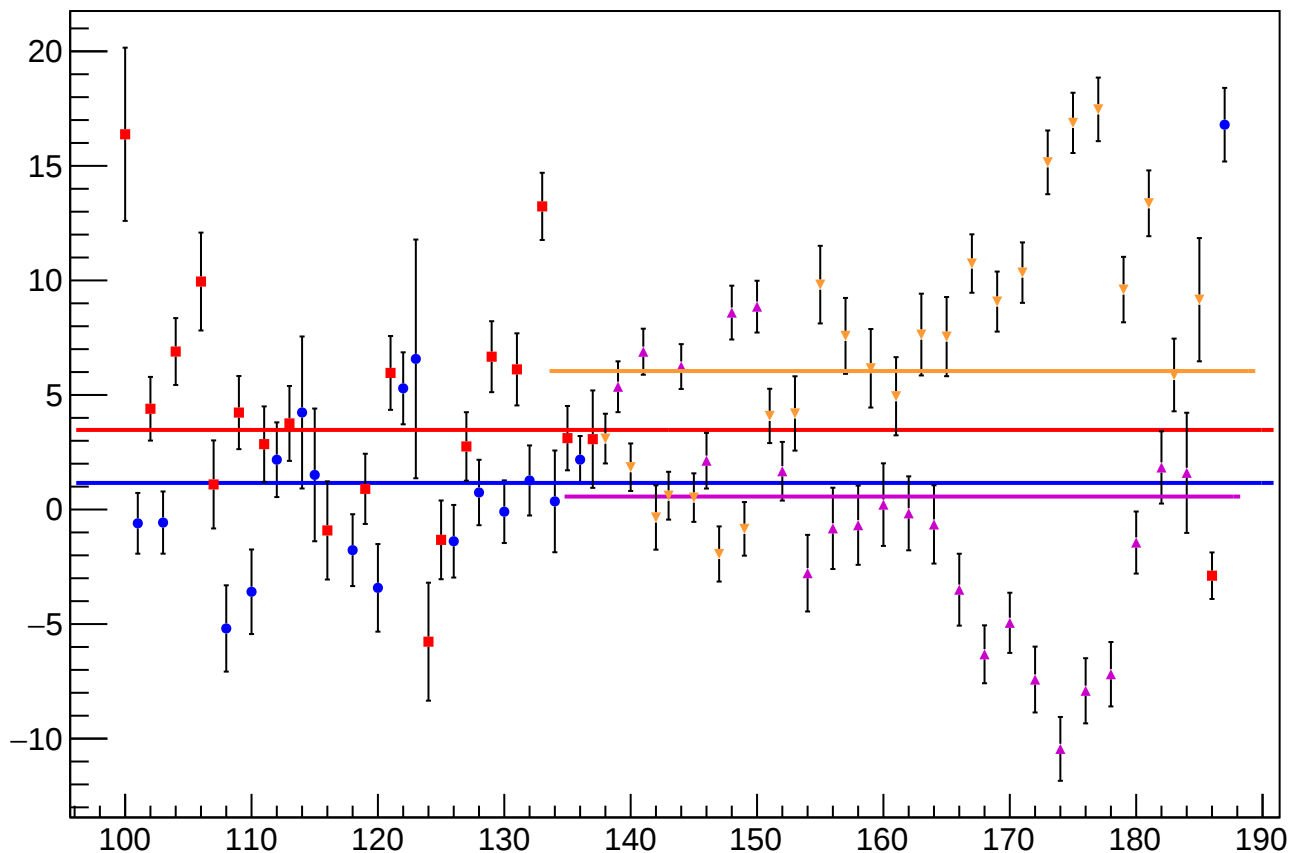
Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF: 1280349.9/22

+ sign 989.483 $\pm$ 0.142 χ^2 /NDF: 2070794.9/42

All: 985.665 $\pm$ 0.101 χ^2 /NDF: 4464639.9/85

- sign 981.811 $\pm$ 0.143 χ^2 /NDF: 2392399.2/42

diff_bpm2i01Y_mean vs Slug



Right In: 1.161 $\pm$ 0.384 χ^2 /NDF: 139.2/17

Left Out: 6.045 $\pm$ 0.272 χ^2 /NDF: 430.8/24

Right Out: 3.474 $\pm$ 0.362 χ^2 /NDF: 149.7/19

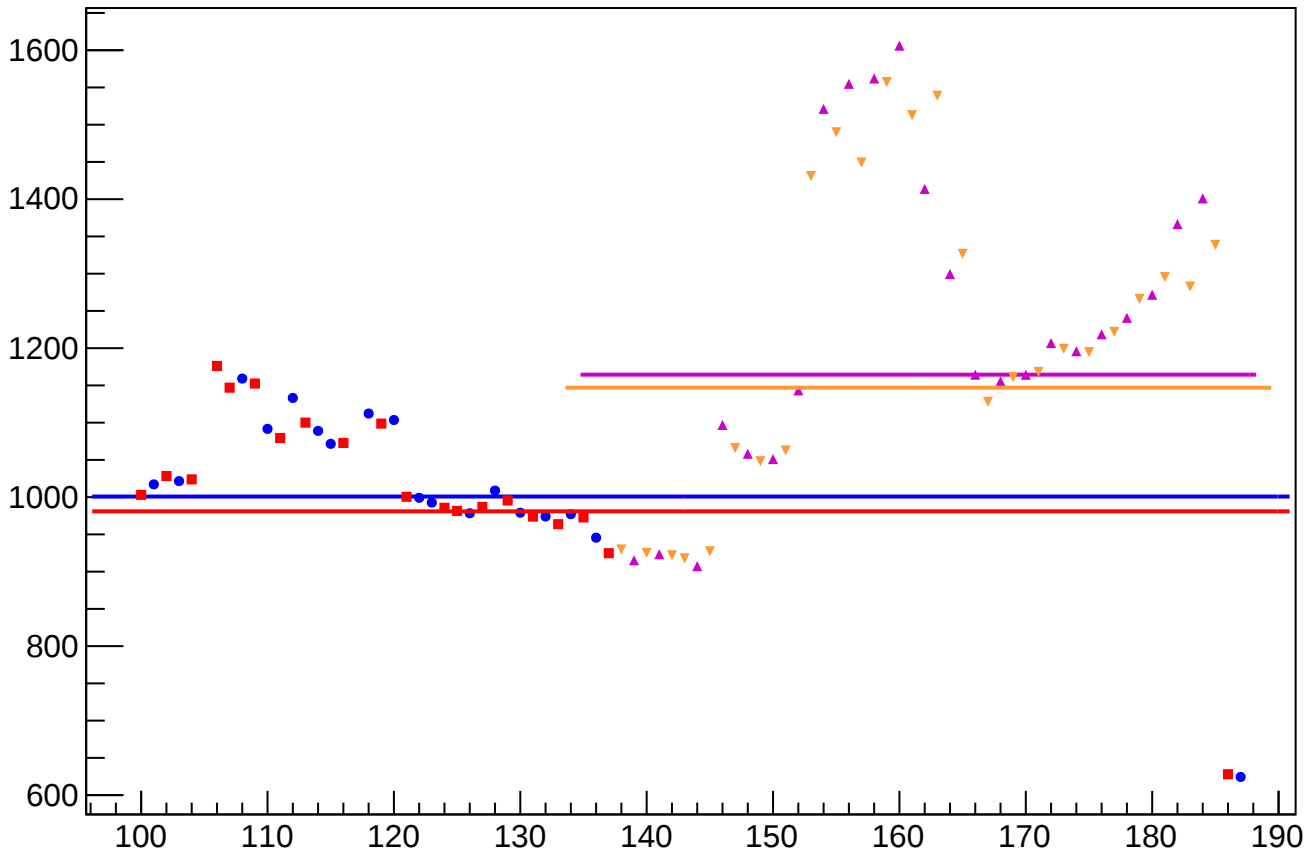
Left In: 0.566 $\pm$ 0.284 χ^2 /NDF: 417.0/22

+ sign 4.417 $\pm$ 0.222 χ^2 /NDF: 677.7/42

All: 3.056 $\pm$ 0.157 χ^2 /NDF: 1360.2/85

- sign 1.675 $\pm$ 0.223 χ^2 /NDF: 606.7/42

diff_bpm2i01Y_rms vs Slug



Right In: 1000.825 ± 0.272 $\chi^2/\text{NDF}: 168665.6/17$

Left Out: 1146.960 ± 0.192 $\chi^2/\text{NDF}: 1045761.4/24$

Right Out: 980.929 ± 0.256 $\chi^2/\text{NDF}: 335976.8/19$

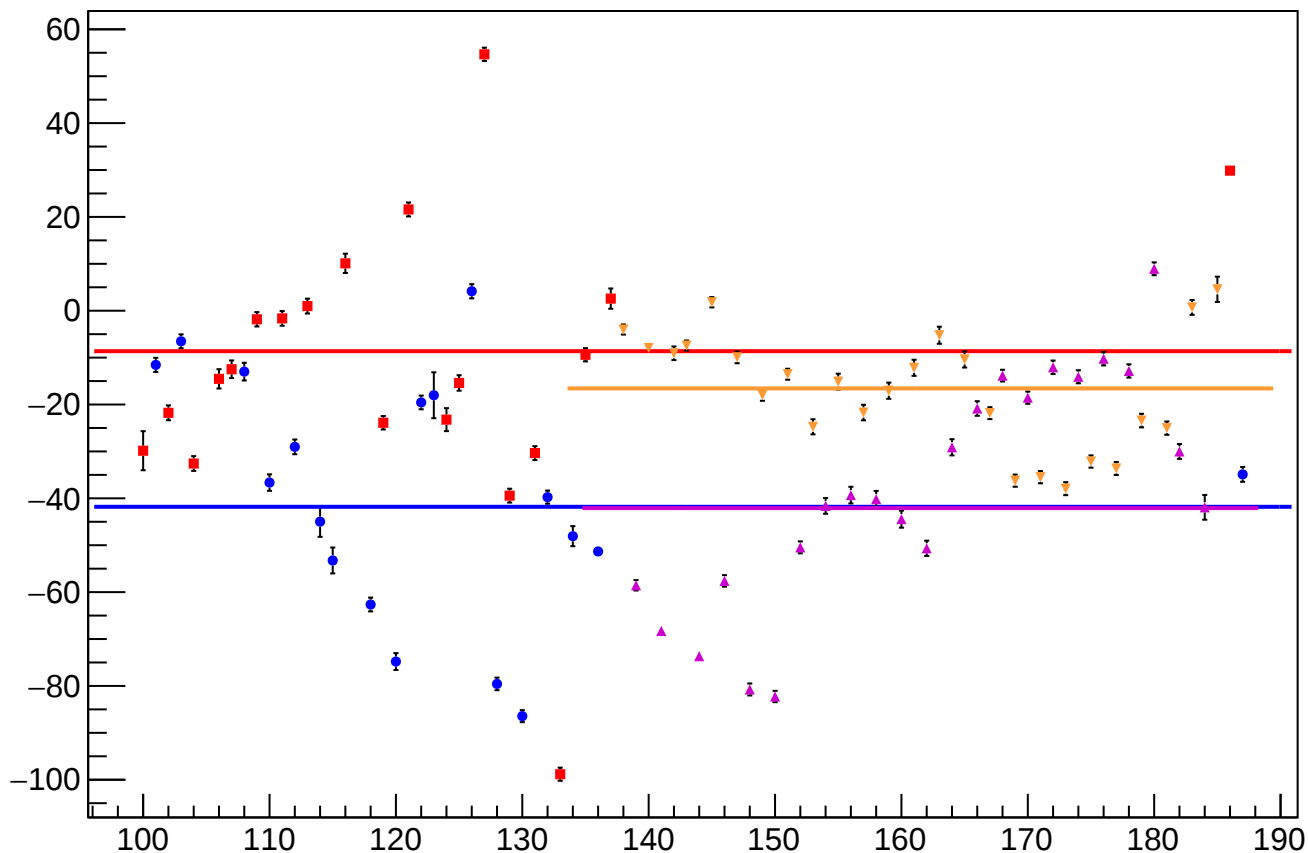
Left In: 1164.432 ± 0.201 $\chi^2/\text{NDF}: 944112.0/22$

+ sign 1098.249 ± 0.157 $\chi^2/\text{NDF}: 1407326.2/42$

All: 1096.377 ± 0.111 $\chi^2/\text{NDF}: 3005743.6/85$

- sign 1094.476 ± 0.158 $\chi^2/\text{NDF}: 1598130.3/42$

diff_bpm2i02X_mean vs Slug



Right In: -41.807 ± 0.377 χ^2/NDF : 5117.4/17

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

Right Out: -8.628 ± 0.354 χ^2/NDF : 9428.3/19

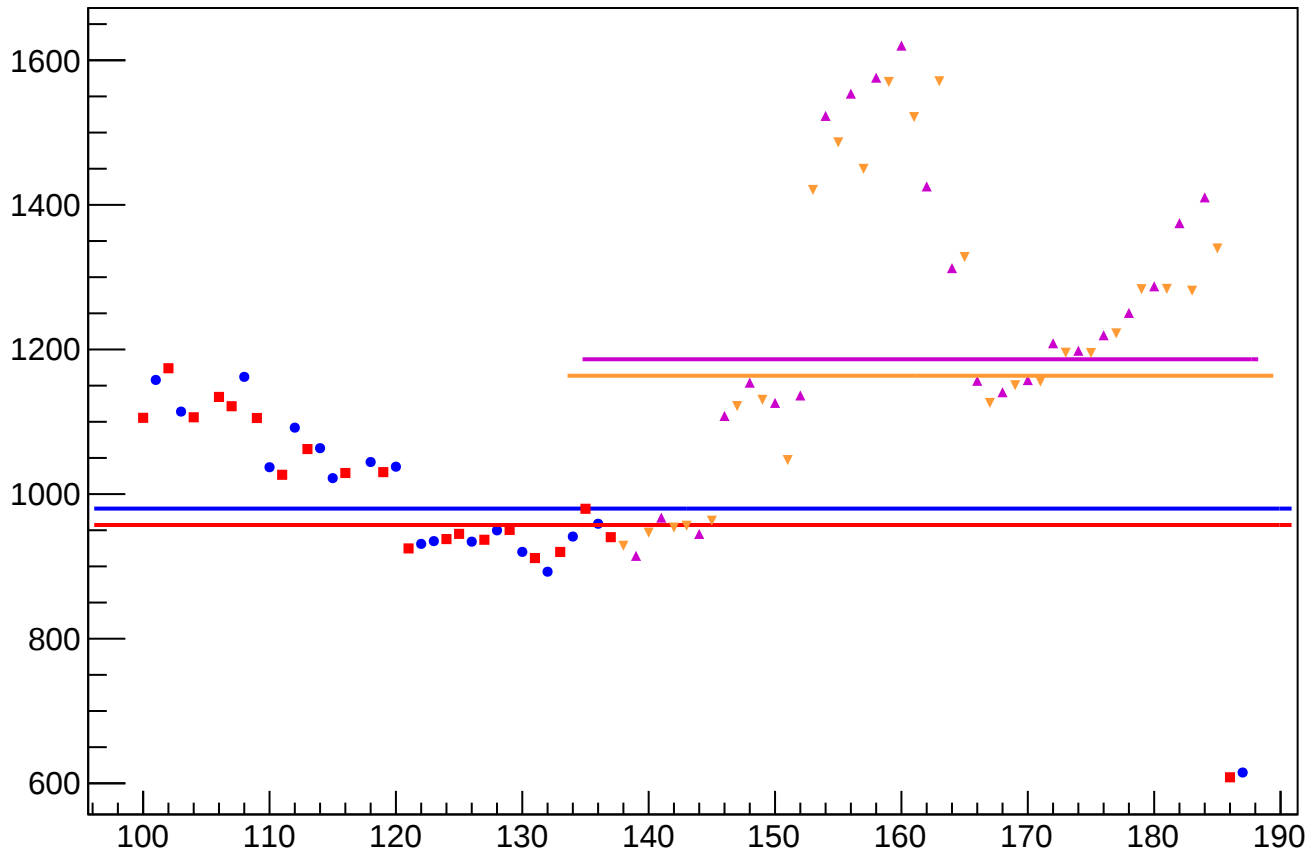
Left In: -42.077 ± 0.289 χ^2/NDF : 8332.3/22

+ sign -25.352 ± 0.222 χ^2/NDF : 9975.1/42

All: -27.007 ± 0.158 χ^2/NDF : 33206.9/85

- sign -28.685 ± 0.224 χ^2/NDF : 23120.2/42

diff_bpm2i02X_rms vs Slug



Right In: 979.948 $\pm$ 0.266 χ^2 /NDF: 208113.3/17

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

Right Out: 957.252 $\pm$ 0.250 χ^2 /NDF: 384317.1/19

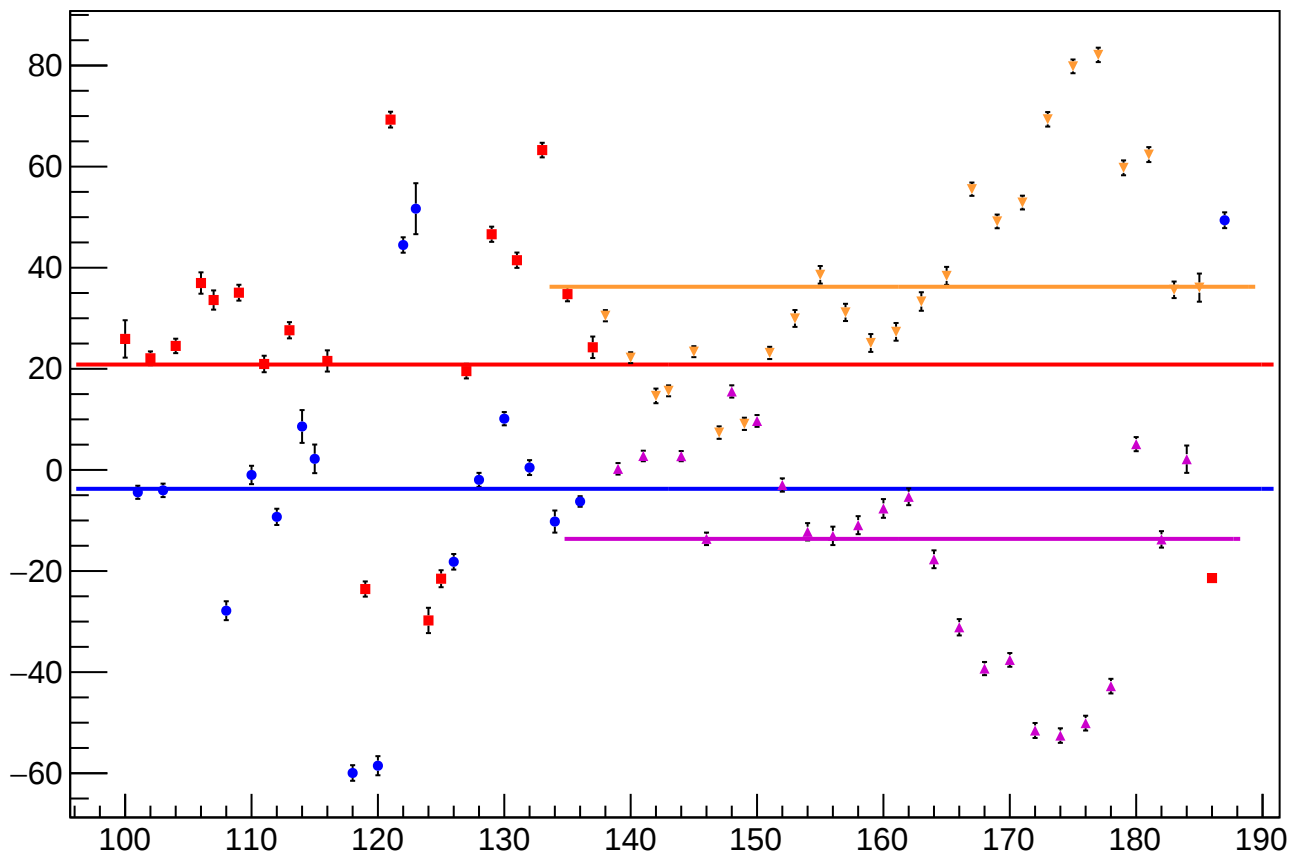
Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

+ sign 1099.736 $\pm$ 0.157 χ^2 /NDF: 1454382.3/42

All: 1097.238 $\pm$ 0.112 χ^2 /NDF: 3176042.9/85

- sign 1094.704 $\pm$ 0.158 χ^2 /NDF: 1721151.8/42

diff_bpm2i02Y_mean vs Slug



Right In: -3.736 ± 0.377 $\chi^2/\text{NDF}: 4857.6/17$

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

Right Out: 20.848 ± 0.355 $\chi^2/\text{NDF}: 6367.2/19$

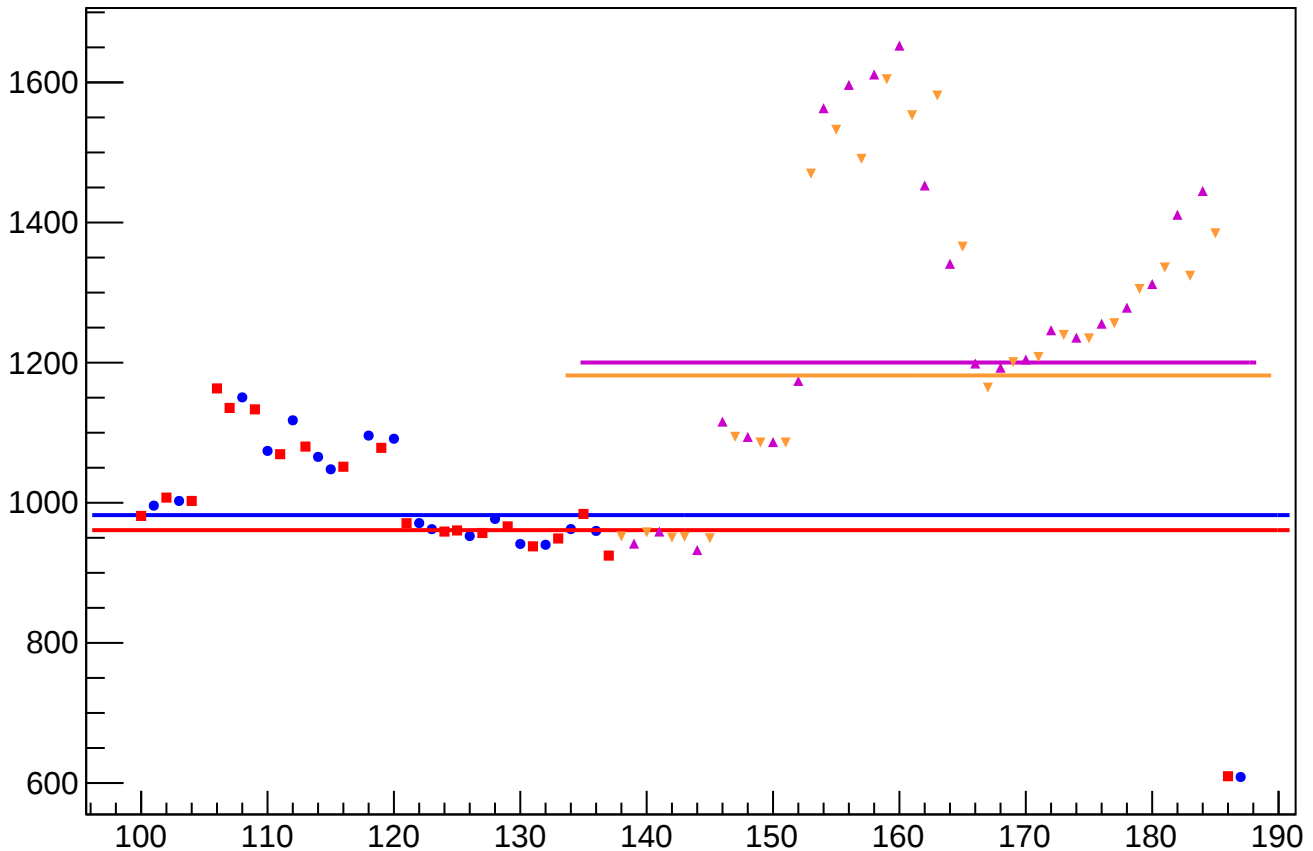
Left In: -13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

+ sign 22.043 ± 0.225 $\chi^2/\text{NDF}: 17893.5/42$

All: 11.239 ± 0.159 $\chi^2/\text{NDF}: 39702.8/85$

- sign 0.333 ± 0.226 $\chi^2/\text{NDF}: 17166.3/42$

diff_bpm2i02Y_rms vs Slug



Right In: 982.409 $\pm$ 0.267 χ^2 /NDF: 175592.1/17

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 960.936 $\pm$ 0.251 χ^2 /NDF: 355021.8/19

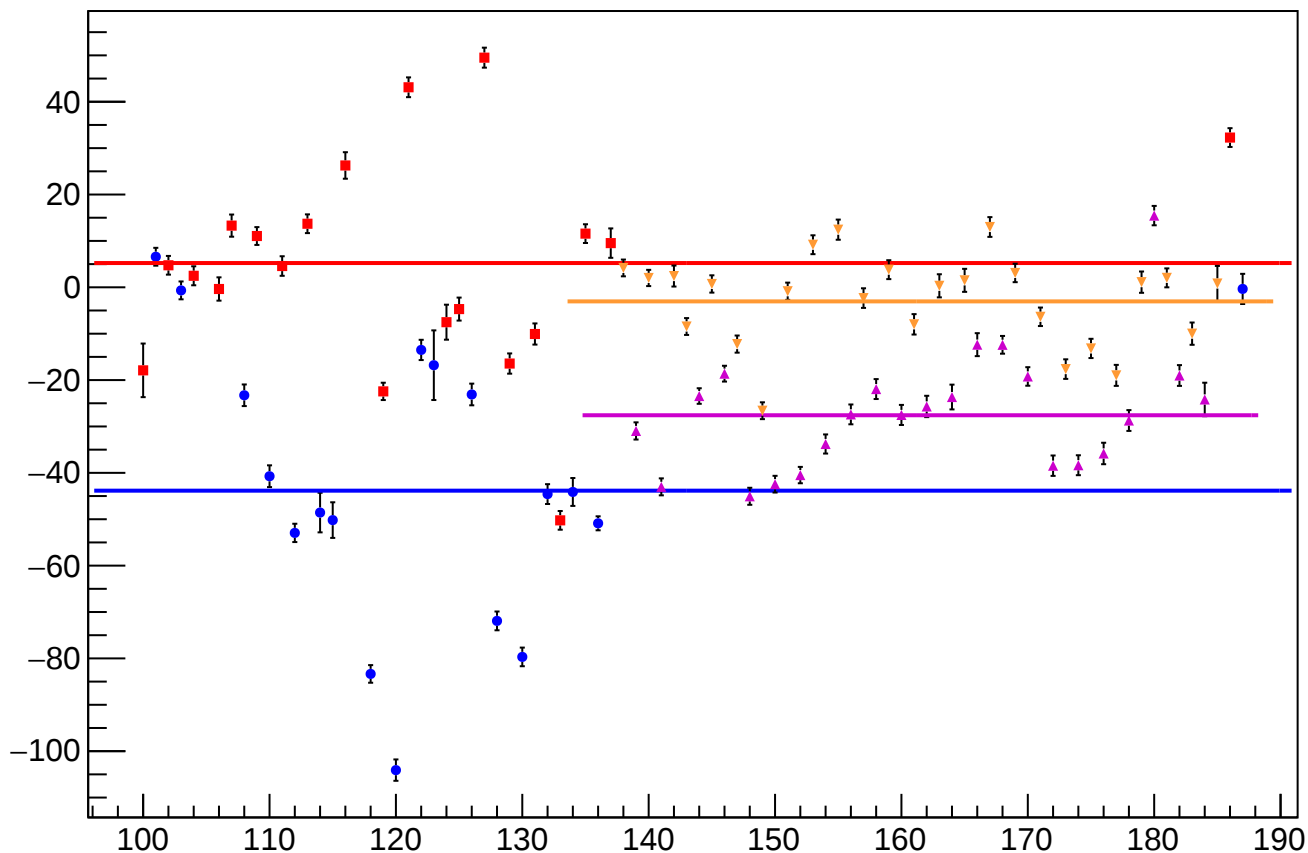
Left In: 1200.198 $\pm$ 0.207 χ^2 /NDF:938224.7/22

+ sign 1110.961 $\pm$ 0.159 χ^2 /NDF: 1579294.6/42

All: 1107.131 $\pm$ 0.113 χ^2 /NDF: 3414786.2/85

- sign 1103.264 $\pm$ 0.160 χ^2 /NDF: 1834324.3/42

diff_bpm0i02X_mean vs Slug



Right In: -43.840 ± 0.533 χ^2/NDF : 3407.3/17

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: 5.231 ± 0.506 χ^2/NDF : 2192.2/19

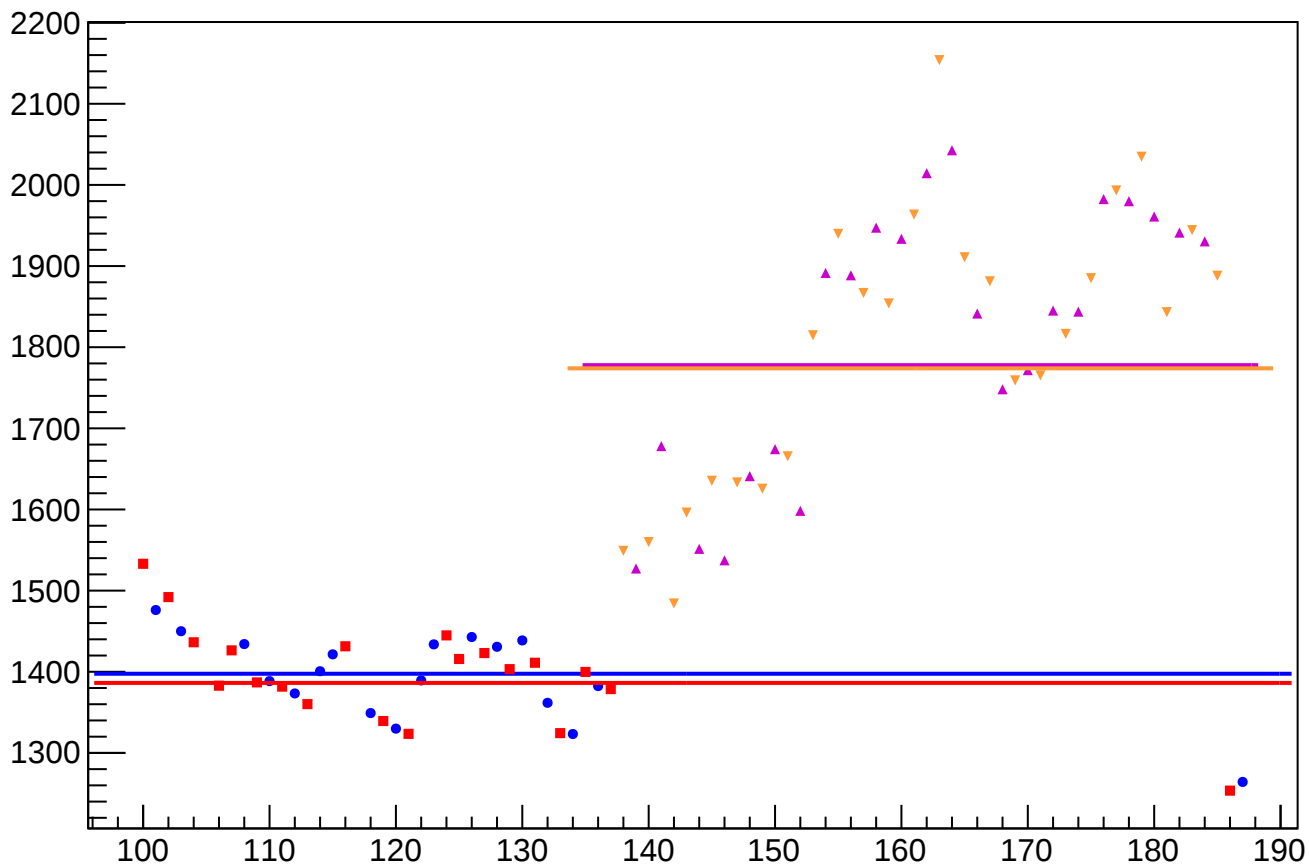
Left In: -27.583 ± 0.429 χ^2/NDF : 960.1/22

+ sign -18.431 ± 0.328 χ^2/NDF : 7608.5/42

All: -16.144 ± 0.232 χ^2/NDF : 13304.4/85

- sign -13.862 ± 0.327 χ^2/NDF : 5598.5/42

diff_bpm0i02X_rms vs Slug



Right In: 1397.549 $\pm$ 0.377 χ^2 /NDF: 16295.0/17

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

Right Out: 1386.256 $\pm$ 0.358 χ^2 /NDF: 24690.7/19

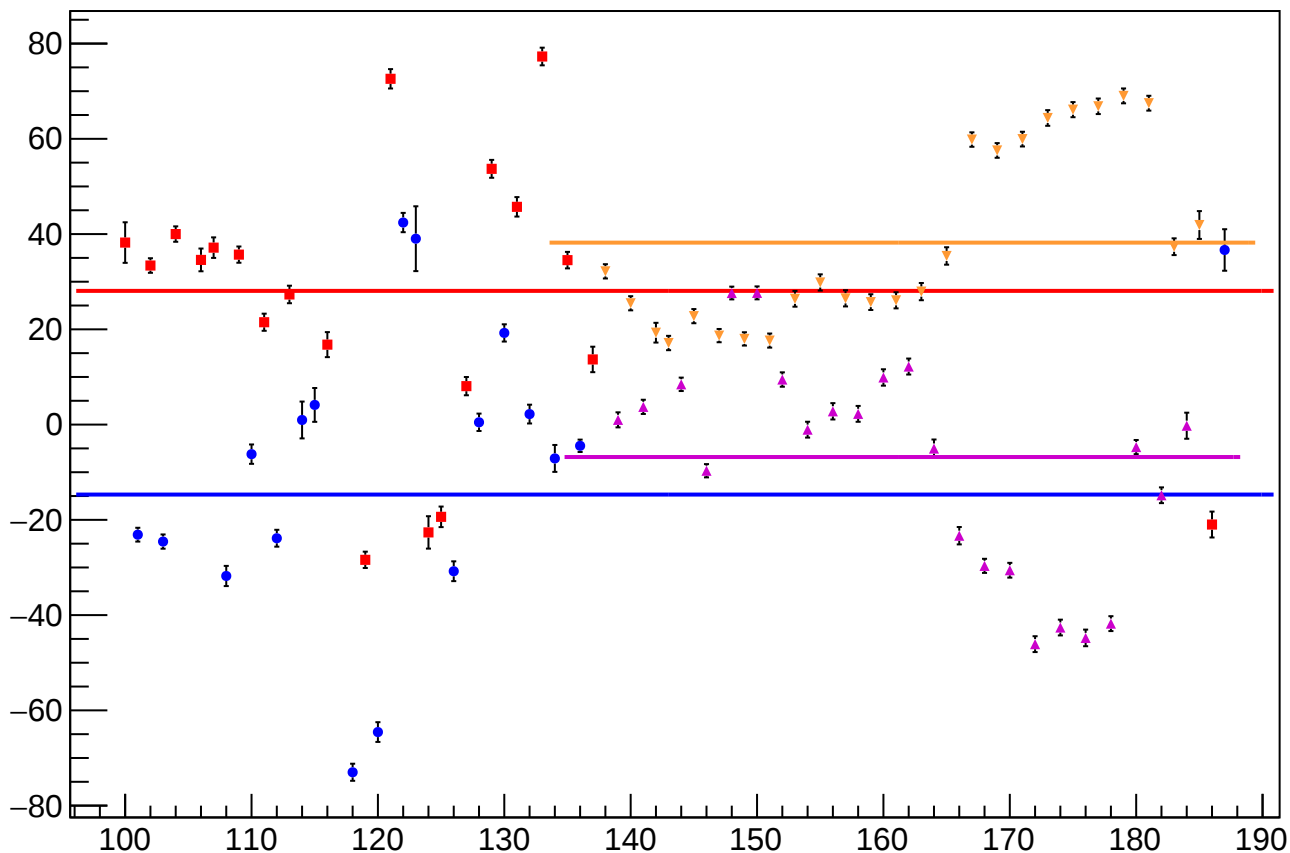
Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

+ sign 1631.956 $\pm$ 0.232 χ^2 /NDF: 949824.3/42

All: 1623.033 $\pm$ 0.164 χ^2 /NDF: 1973846.0/85

- sign 1614.126 $\pm$ 0.231 χ^2 /NDF: 1021055.9/42

diff_bpm0i02Y_mean vs Slug



Right In: -14.691 ± 0.470 χ^2/NDF : 3486.0/17

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

Right Out: 28.074 ± 0.451 χ^2/NDF : 3863.0/19

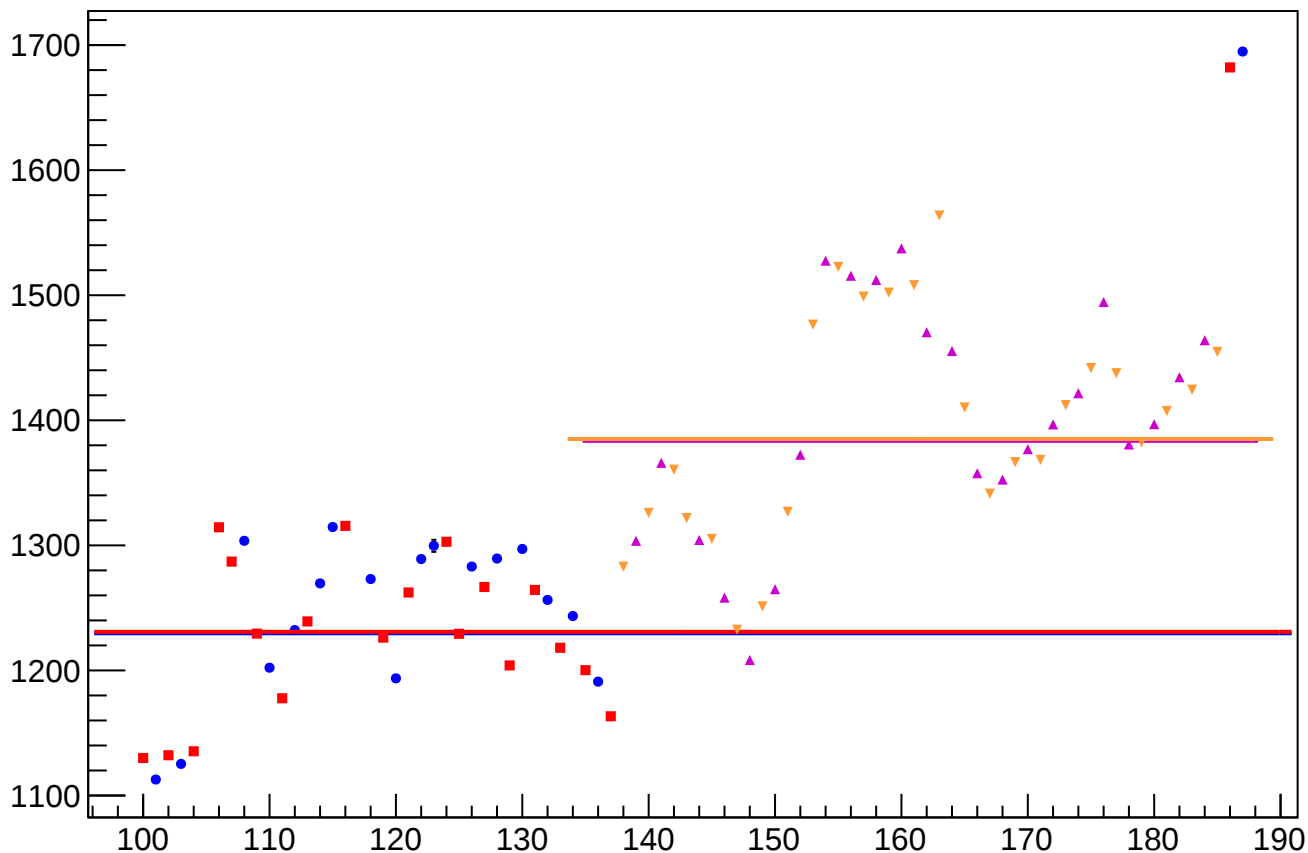
Left In: -6.808 ± 0.333 χ^2/NDF : 4494.5/22

+ sign 21.218 ± 0.266 χ^2/NDF : 15594.0/42

All: 13.405 ± 0.189 χ^2/NDF : 29556.3/85

- sign 5.513 ± 0.268 χ^2/NDF : 12234.0/42

diff_bpm0i02Y_rms vs Slug



Right In: 1229.687 $\pm$ 0.332 χ^2 /NDF: 61817.9/17

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

Right Out: 1230.906 $\pm$ 0.319 χ^2 /NDF: 84247.5/19

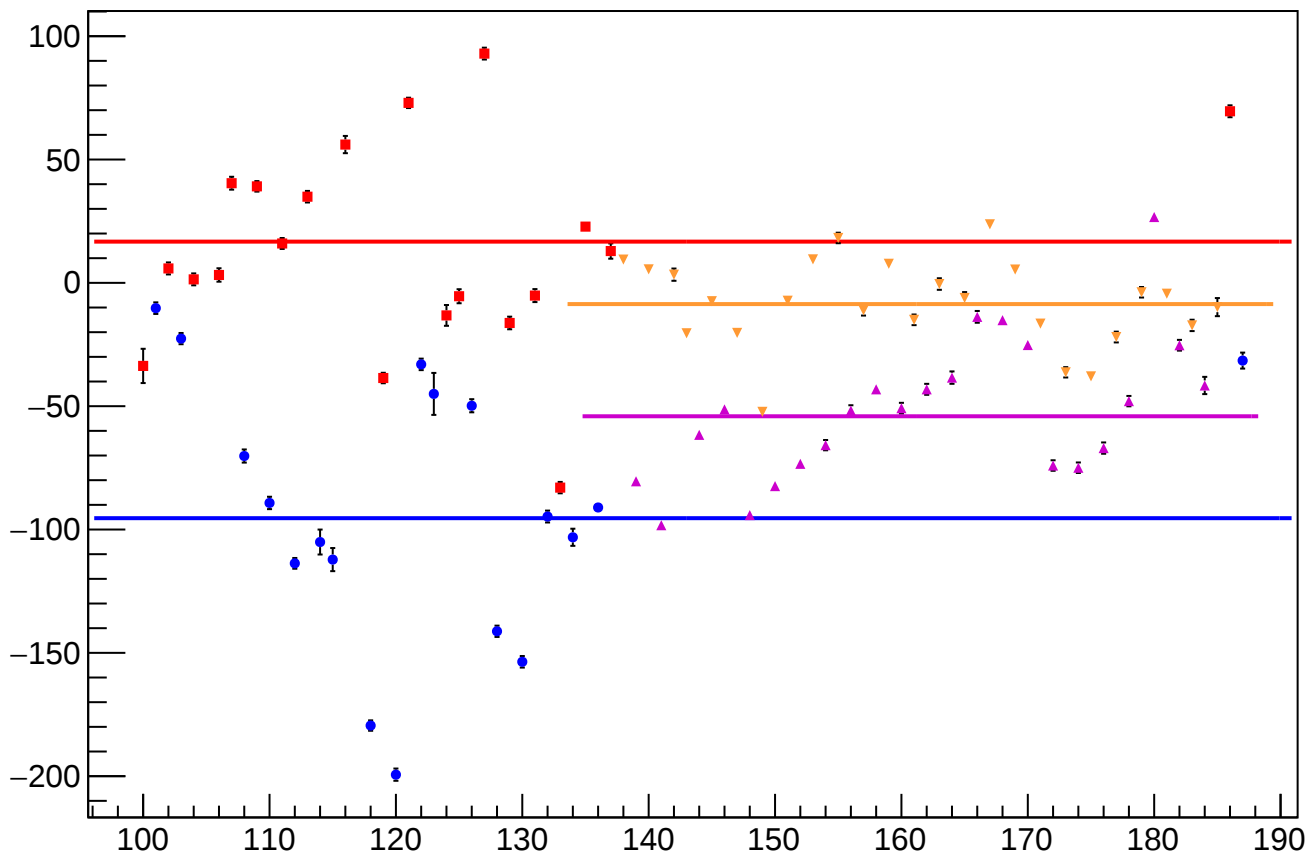
Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF: 154696.0/22

+ sign 1335.163 $\pm$ 0.188 χ^2 /NDF: 356109.2/42

All: 1332.413 $\pm$ 0.134 χ^2 /NDF: 743953.2/85

- sign 1329.636 $\pm$ 0.189 χ^2 /NDF: 387416.0/42

diff_bpm0i02aX_mean vs Slug



Right In: -95.400 ± 0.592 χ^2/NDF : 8321.9/17

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

Right Out: 16.718 ± 0.564 χ^2/NDF : 5622.7/19

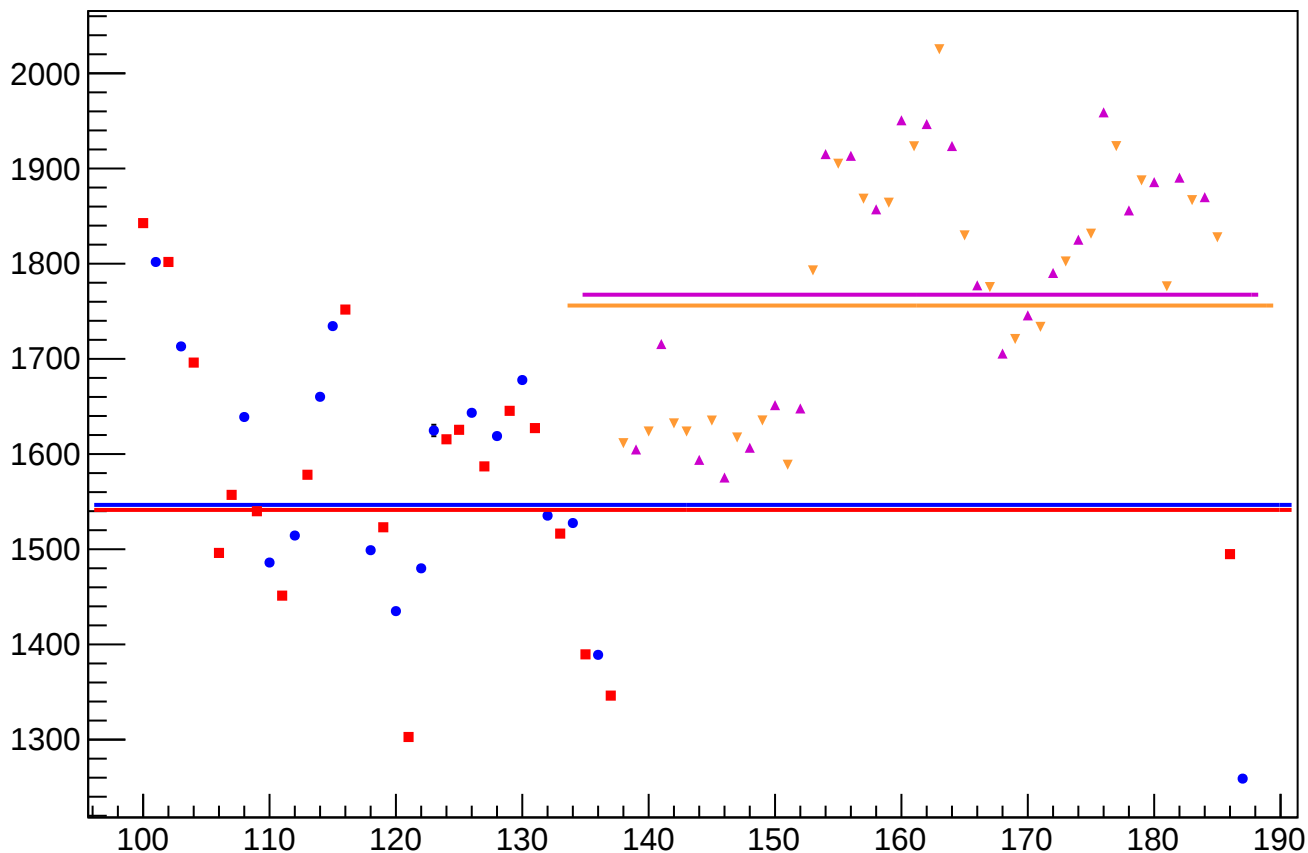
Left In: -54.089 ± 0.426 χ^2/NDF : 4721.6/22

+ sign -36.754 ± 0.337 χ^2/NDF : 24770.7/42

All: -32.614 ± 0.239 χ^2/NDF : 45454.9/85

- sign -28.410 ± 0.340 χ^2/NDF : 20380.4/42

diff_bpm0i02aX_rms vs Slug



Right In: 1546.591+/-0.419 χ^2/NDF : 97756.5/17

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

Right Out: 1541.312+/-0.399 χ^2/NDF : 101382.0/19

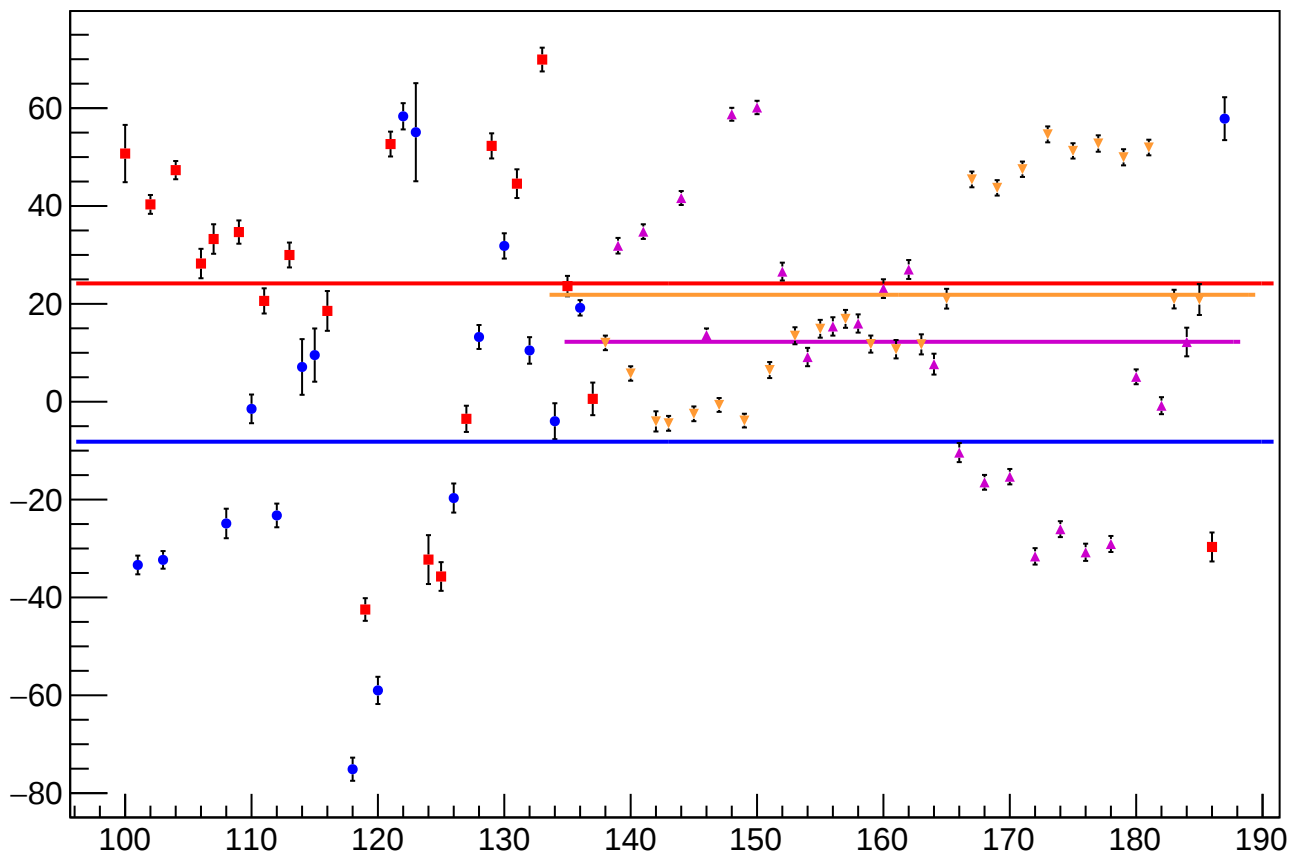
Left In: 1767.410+/-0.301 χ^2/NDF : 187958.2/22

+ sign 1688.110+/-0.238 χ^2/NDF : 442597.4/42

All: 1686.772+/-0.169 χ^2/NDF : 936664.7/85

- sign 1685.414+/-0.240 χ^2/NDF : 494003.9/42

diff_bpm0i02aY_mean vs Slug



Right In: -8.171 $\pm$ 0.621 χ^2 /NDF: 3140.2/17

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

Right Out: 24.179 $\pm$ 0.592 χ^2 /NDF: 2795.9/19

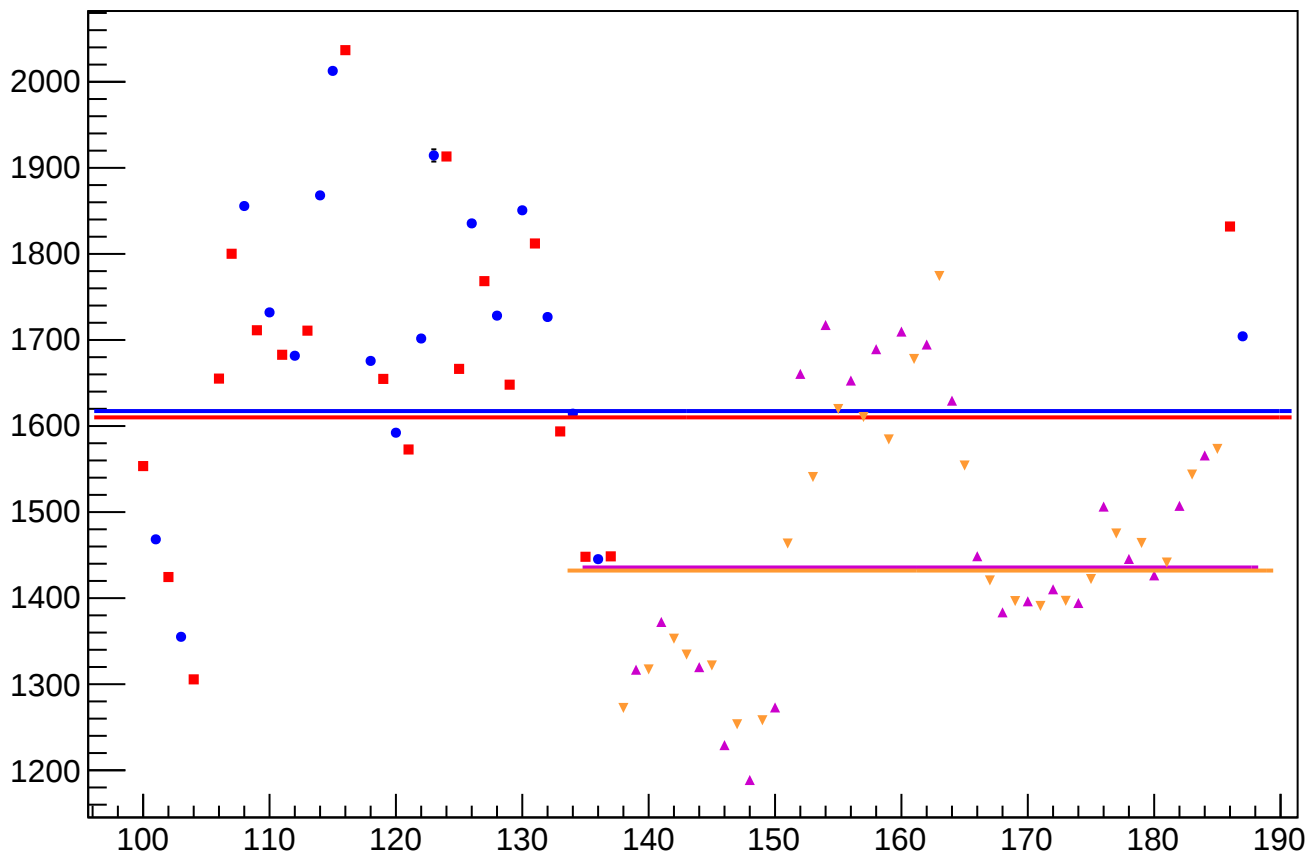
Left In: 12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

+ sign 15.078 $\pm$ 0.295 χ^2 /NDF: 9060.7/42

All: 15.188 $\pm$ 0.210 χ^2 /NDF: 18941.3/85

- sign 15.302 $\pm$ 0.299 χ^2 /NDF: 9880.3/42

diff_bpm0i02aY_rms vs Slug



Right In: 1617.406 $\pm$ 0.439 χ^2 /NDF: 149991.1/17

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

Right Out: 1610.055 $\pm$ 0.418 χ^2 /NDF: 165216.8/19

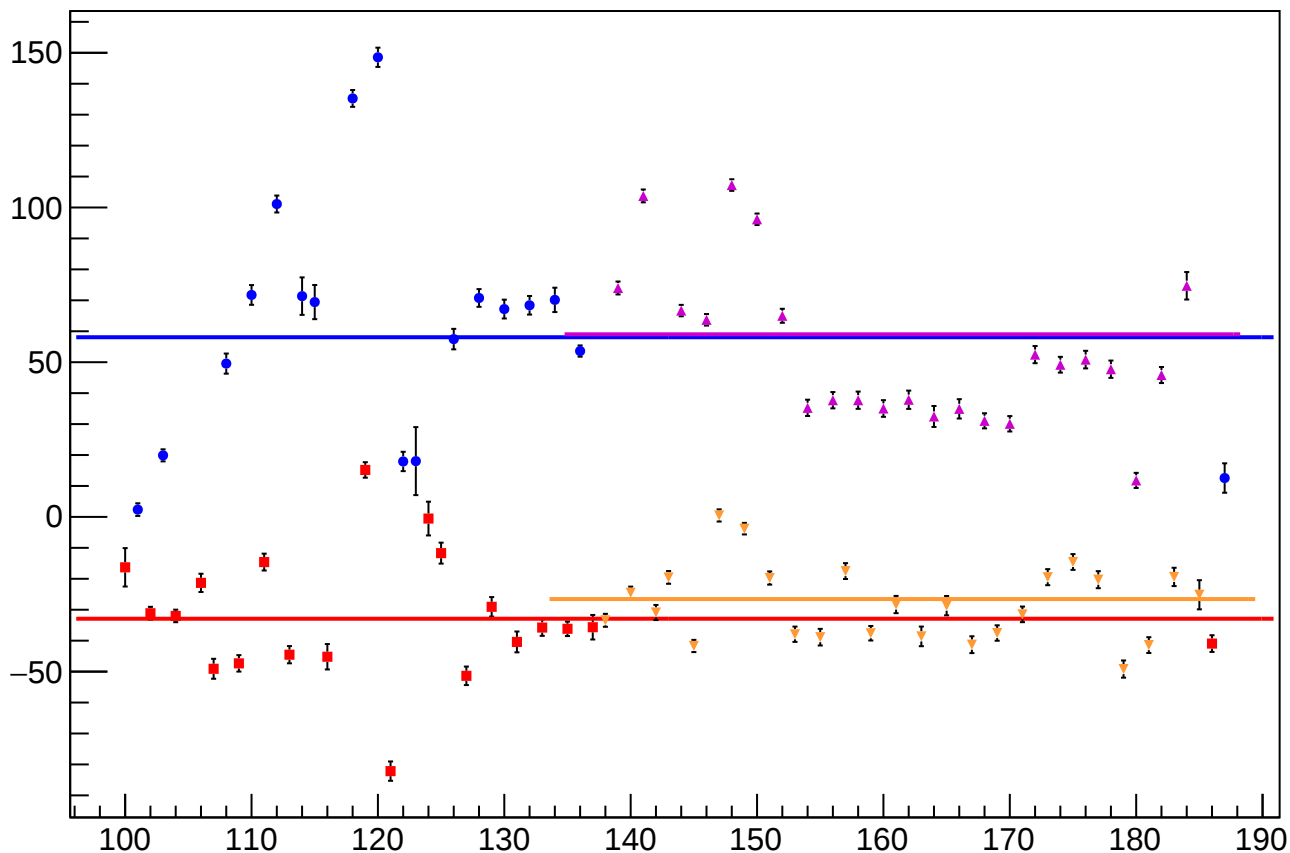
Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

+ sign 1473.896 $\pm$ 0.209 χ^2 /NDF: 585277.6/42

All: 1477.056 $\pm$ 0.149 χ^2 /NDF: 1301142.6/85

- sign 1480.308 $\pm$ 0.212 χ^2 /NDF: 715399.4/42

diff_bpm0i05X_mean vs Slug



Right In: 58.068 ± 0.693 χ^2/NDF : 3386.9/17

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

Right Out: -32.909 ± 0.648 χ^2/NDF : 897.5/19

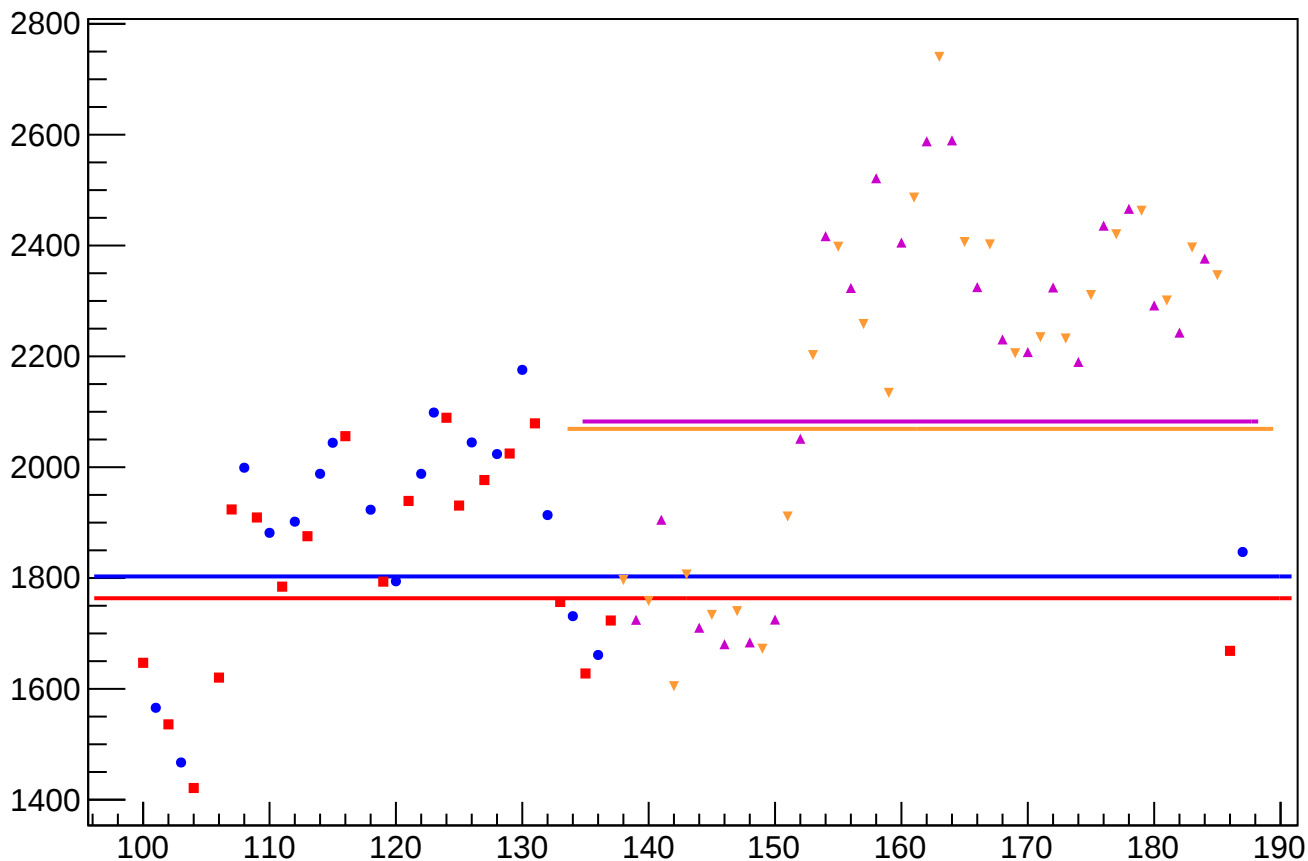
Left In: 59.014 ± 0.506 χ^2/NDF : 2783.8/22

+ sign 1.489 ± 0.399 χ^2/NDF : 14074.8/42

All: 12.818 ± 0.282 χ^2/NDF : 31864.7/85

- sign 24.153 ± 0.399 χ^2/NDF : 16176.4/42

diff_bpm0i05X_rms vs Slug



Right In: 1802.880+/-0.490 χ^2/NDF : 183732.1/17

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

Right Out: 1763.544+/-0.458 χ^2/NDF : 180440.8/19

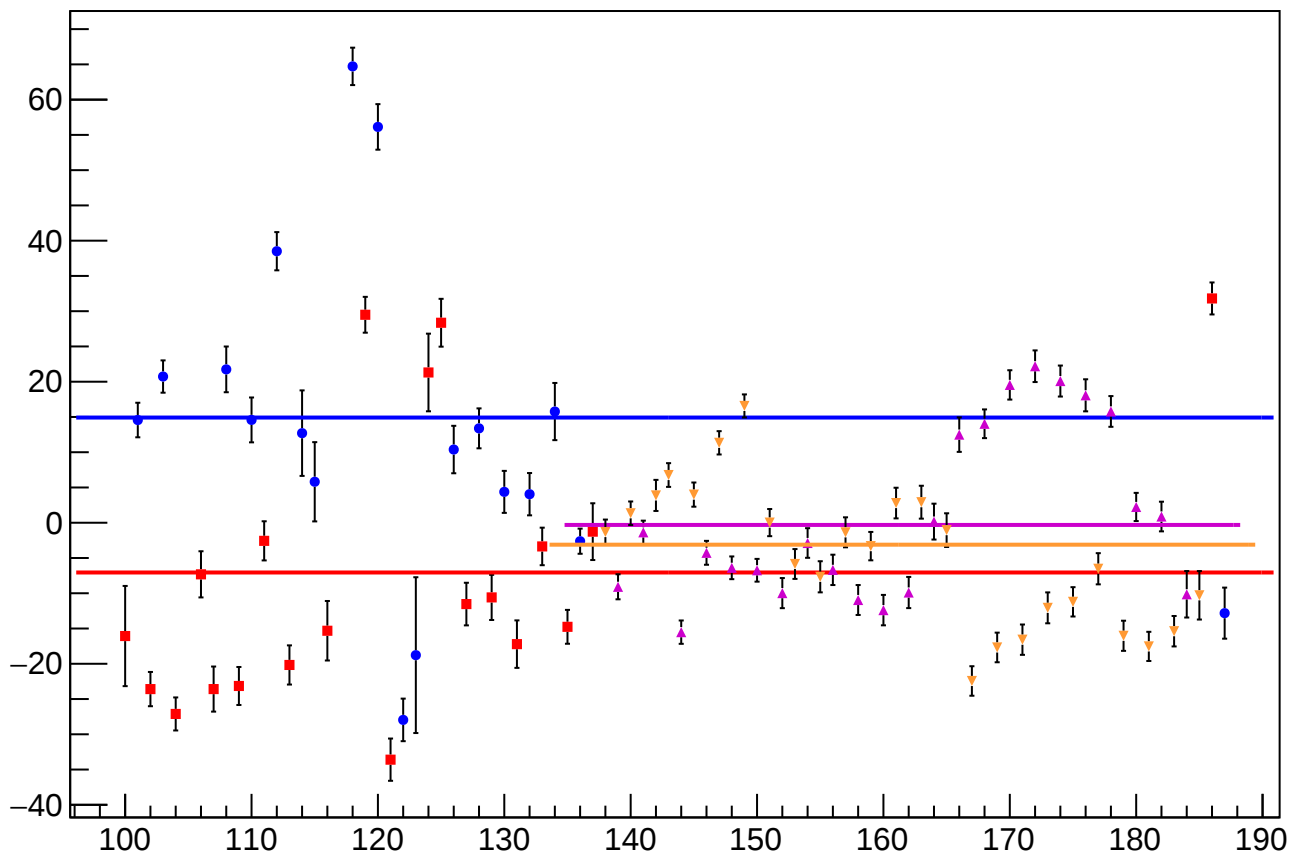
Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

+ sign 1980.907+/-0.282 χ^2/NDF : 1180198.6/42

All: 1971.224+/-0.199 χ^2/NDF : 2449169.2/85

- sign 1961.536+/-0.282 χ^2/NDF : 1266613.0/42

diff_bpm0i05Y_mean vs Slug



Right In: 14.918 ± 0.709 $\chi^2/\text{NDF}: 999.1/17$

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

Right Out: -7.055 ± 0.664 $\chi^2/\text{NDF}: 953.5/19$

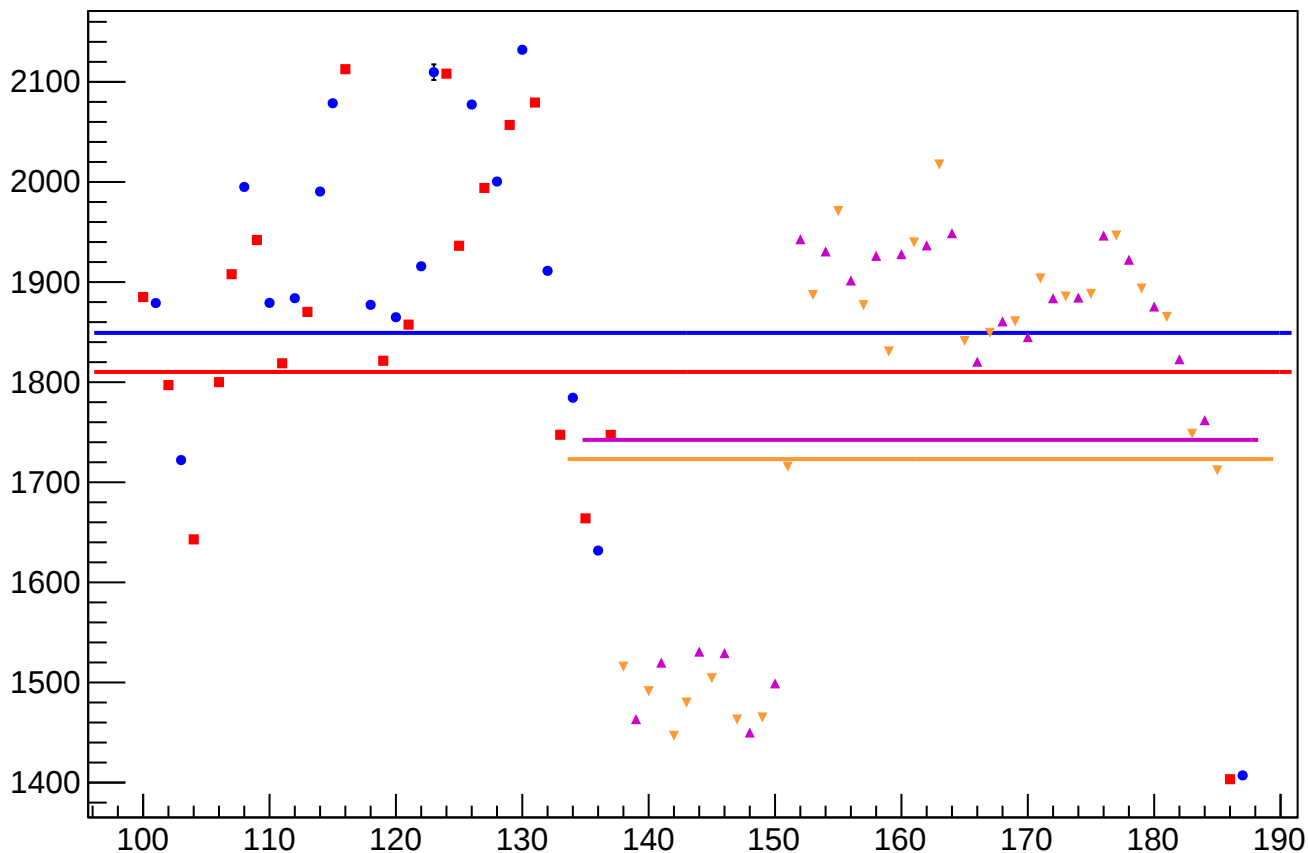
Left In: -0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

+ sign 1.314 ± 0.351 $\chi^2/\text{NDF}: 2131.2/42$

All: -0.443 ± 0.250 $\chi^2/\text{NDF}: 3945.5/85$

- sign -2.246 ± 0.356 $\chi^2/\text{NDF}: 1763.6/42$

diff_bpm0i05Y_rms vs Slug



Right In: 1849.248 $\pm$ 0.501 χ^2 /NDF: 111651.1/17

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

Right Out: 1810.228 $\pm$ 0.470 χ^2 /NDF: 142906.1/19

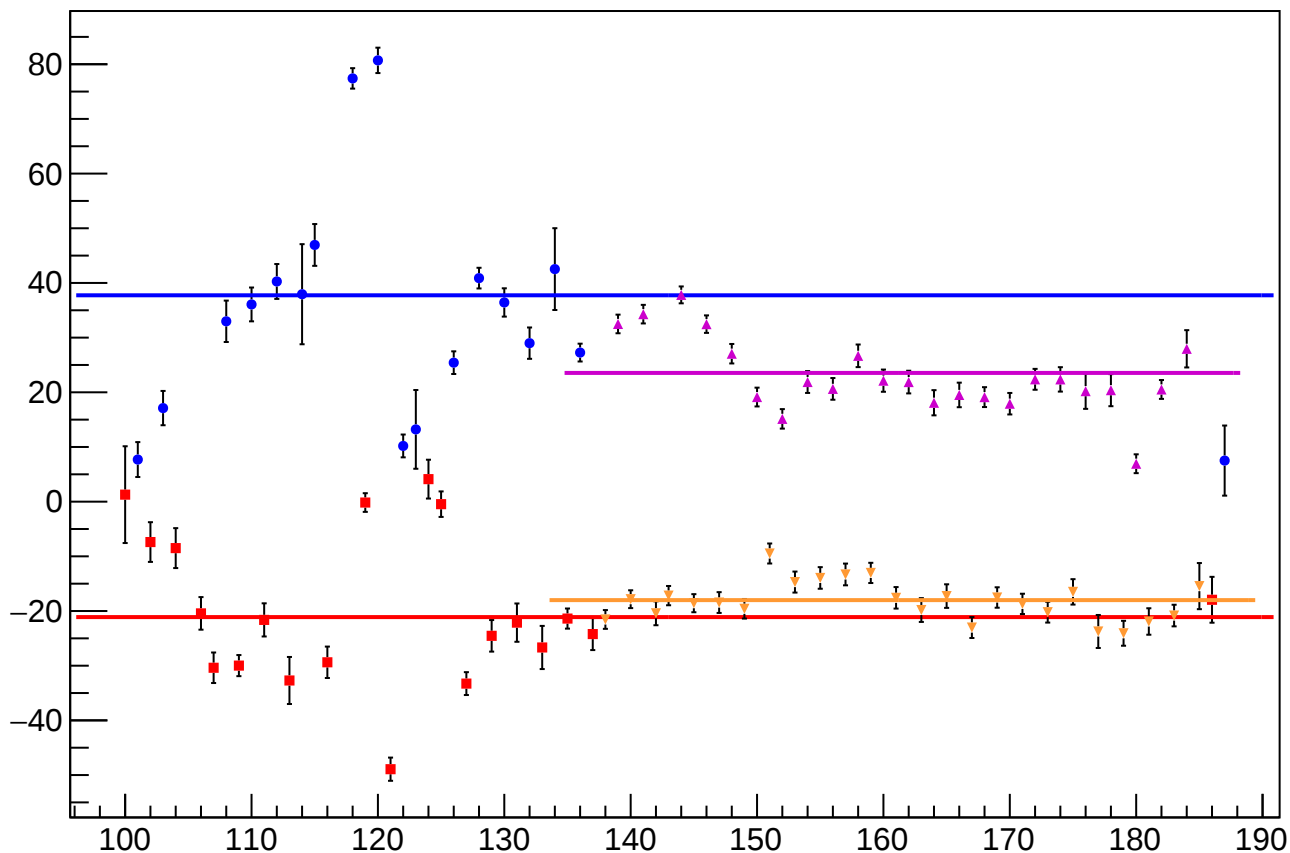
Left In: 1742.354 $\pm$ 0.298 χ^2 /NDF: 435841.5/22

+ sign 1754.117 $\pm$ 0.248 χ^2 /NDF: 636850.2/42

All: 1757.920 $\pm$ 0.177 χ^2 /NDF: 1230976.6/85

- sign 1761.820 $\pm$ 0.251 χ^2 /NDF: 593651.2/42

diff_bpm0i07X_mean vs Slug



Right In: 37.741 ± 0.636 $\chi^2/\text{NDF}: 1230.1/17$

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

Right Out: -21.111 ± 0.603 $\chi^2/\text{NDF}: 570.6/19$

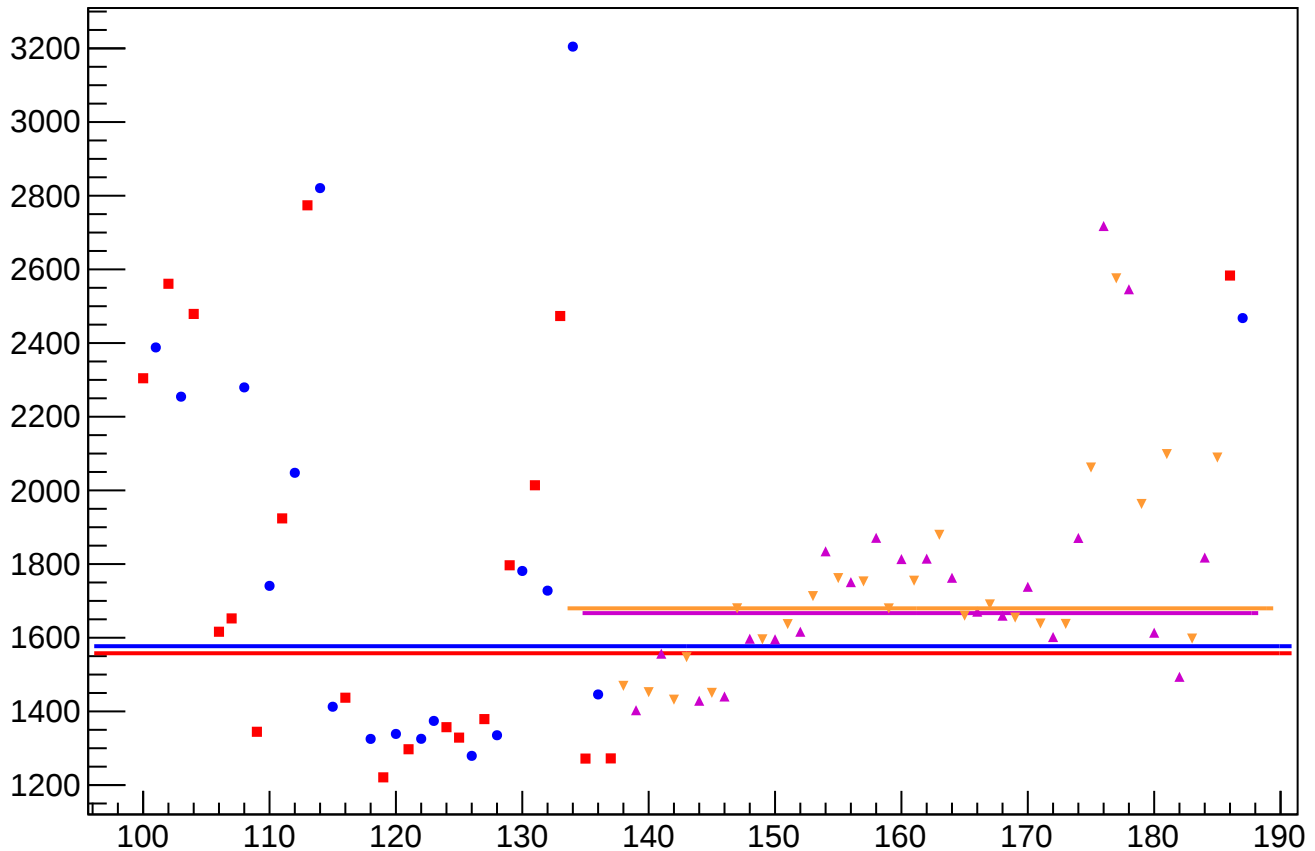
Left In: 23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

+ sign -2.380 ± 0.337 $\chi^2/\text{NDF}: 6840.1/42$

All: 3.628 ± 0.238 $\chi^2/\text{NDF}: 12168.6/85$

- sign 9.638 ± 0.337 $\chi^2/\text{NDF}: 4691.0/42$

diff_bpm0i07X_rms vs Slug



Right In: 1577.016 $\pm$ 0.449 χ^2 /NDF: 707071.8/17

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

+ sign 1650.998 $\pm$ 0.238 χ^2 /NDF: 1267516.7/42

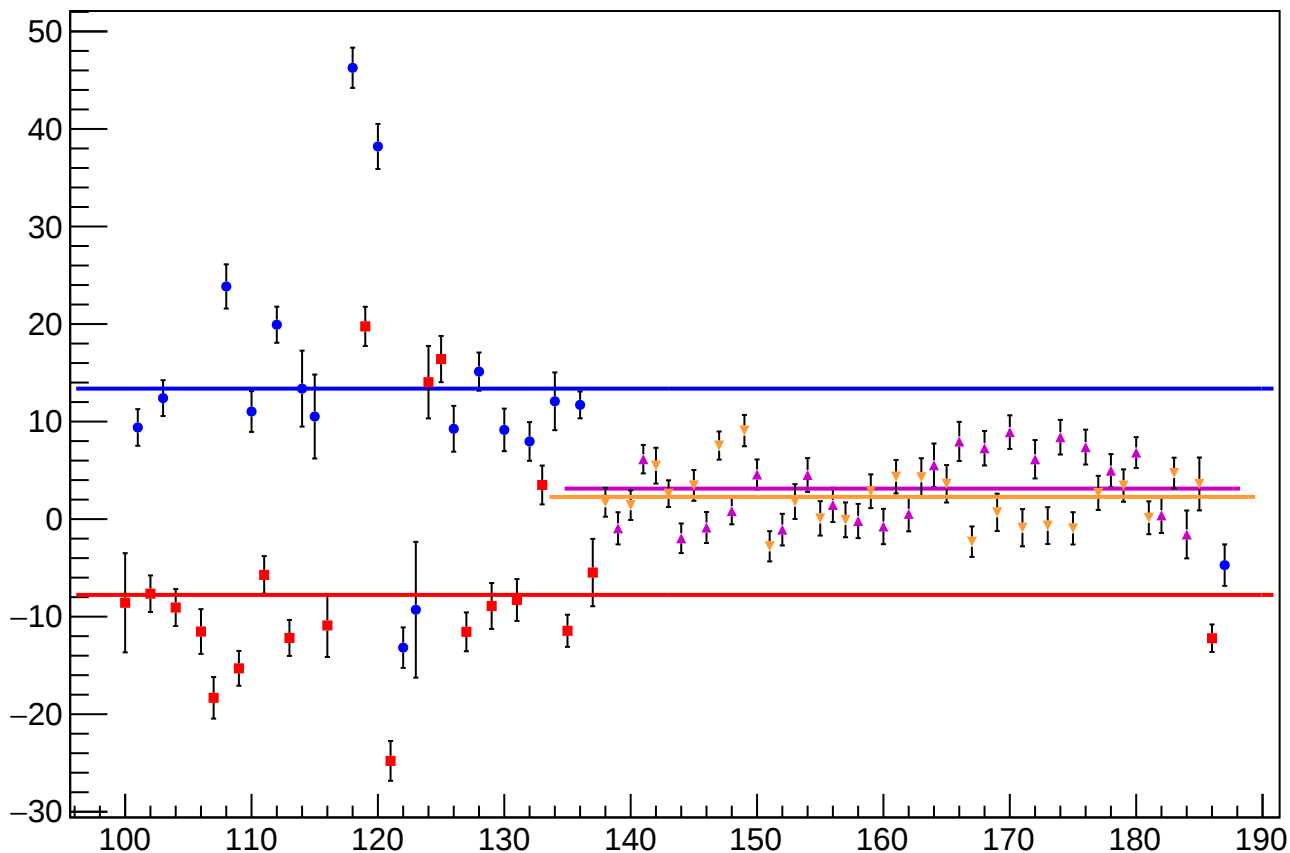
Right Out: 1557.869 $\pm$ 0.427 χ^2 /NDF: 1004398.4/19

All: 1641.947 $\pm$ 0.168 χ^2 /NDF: 2970724.8/85

- sign 1632.891 $\pm$ 0.238 χ^2 /NDF: 1700314.0/42

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

diff_bpm0i07Y_mean vs Slug



Right In: 13.378 $\pm$ 0.509 χ^2 /NDF: 673.3/17

Left Out: 2.280 $\pm$ 0.338 χ^2 /NDF: 75.6/24

Right Out: -7.769 $\pm$ 0.467 χ^2 /NDF: 500.1/19

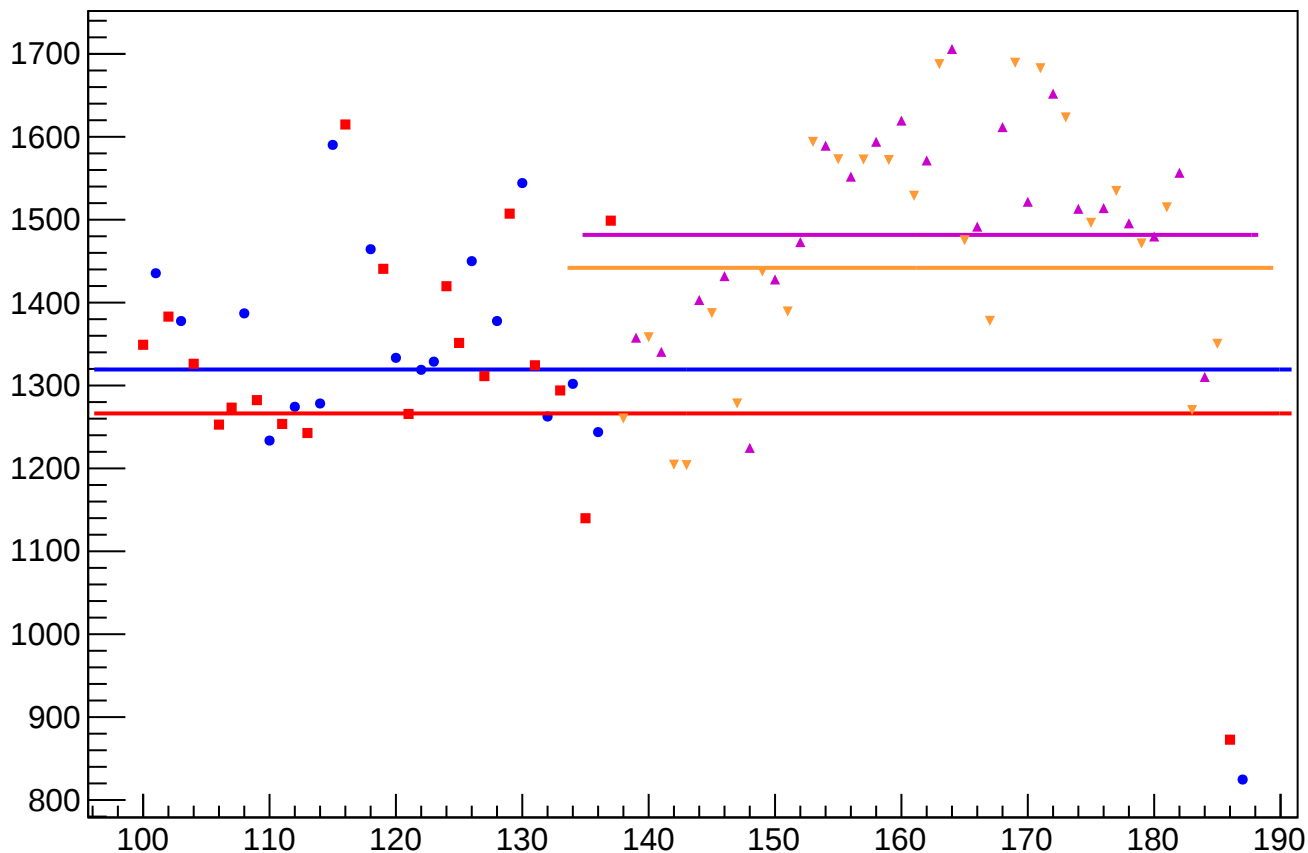
Left In: 3.129 $\pm$ 0.358 χ^2 /NDF: 103.4/22

+ sign 5.681 $\pm$ 0.282 χ^2 /NDF: 1078.8/42

All: 2.420 $\pm$ 0.200 χ^2 /NDF: 2295.5/85

- sign -0.896 $\pm$ 0.284 χ^2 /NDF: 946.4/42

diff_bpm0i07Y_rms vs Slug



Right In: 1319.321+/-0.360 χ^2/NDF : 179344.8/17

Left Out: 1441.951+/-0.239 χ^2/NDF : 370617.4/24

Right Out: 1266.316+/-0.330 χ^2/NDF : 255260.9/19

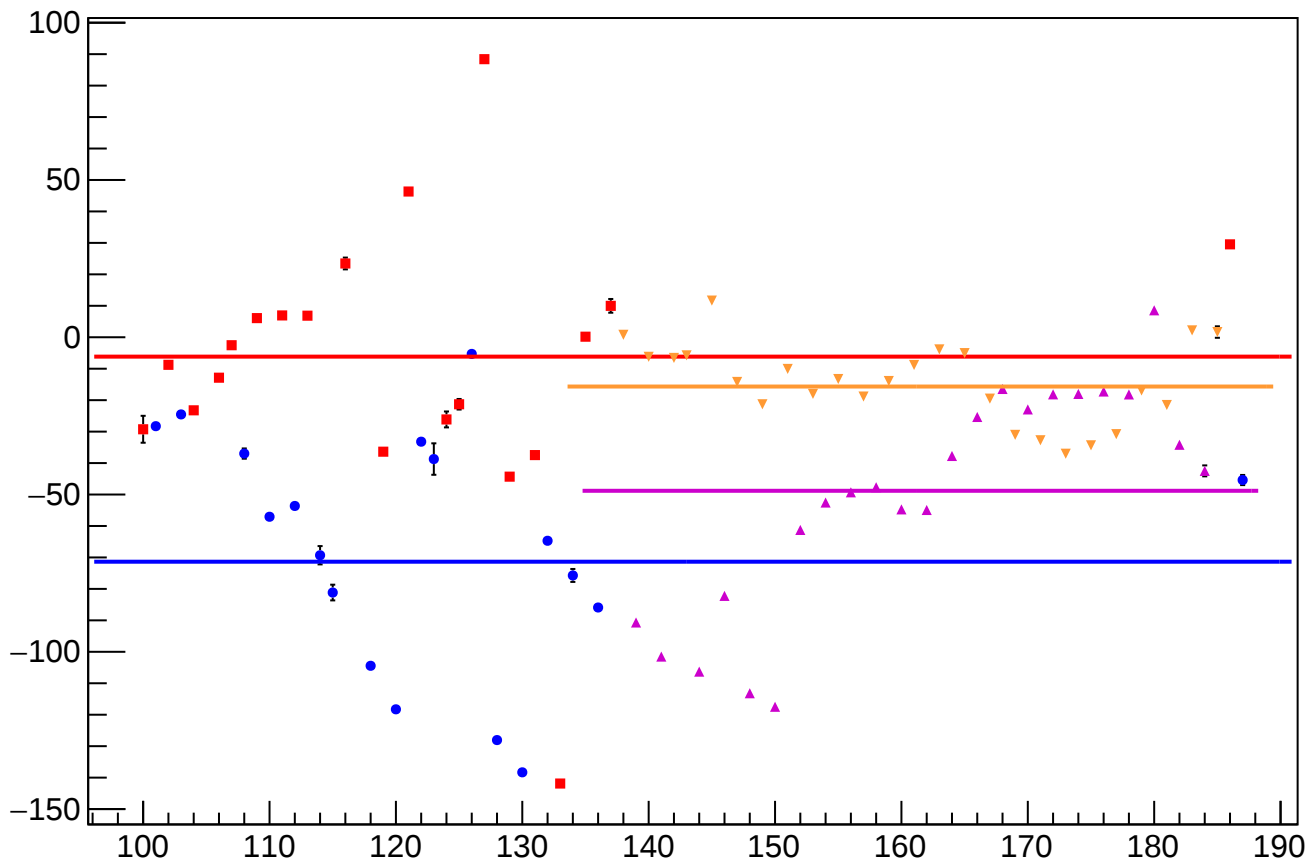
Left In: 1481.695+/-0.253 χ^2/NDF : 208470.6/22

+ sign 1404.371+/-0.199 χ^2/NDF : 630522.8/42

All: 1403.273+/-0.141 χ^2/NDF : 1362186.9/85

- sign 1402.157+/-0.201 χ^2/NDF : 731602.9/42

diff_bpm1i02X_mean vs Slug



Right In: -71.357 ± 0.354 $\chi^2/\text{NDF}: 11876.4/17$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -6.159 ± 0.333 $\chi^2/\text{NDF}: 19558.8/19$

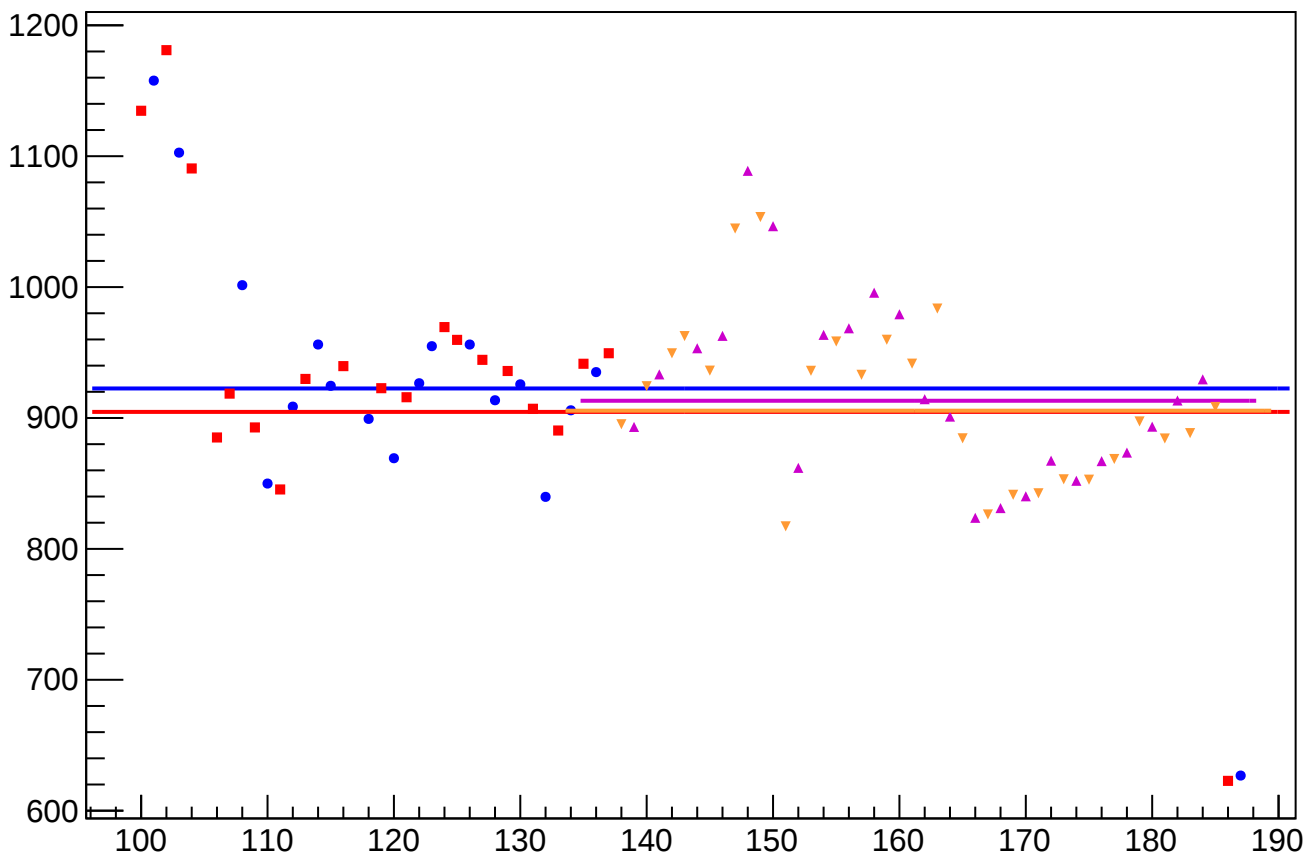
Left In: -48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

+ sign -30.307 ± 0.182 $\chi^2/\text{NDF}: 33620.5/42$

All: -33.058 ± 0.129 $\chi^2/\text{NDF}: 90325.2/85$

- sign -35.867 ± 0.183 $\chi^2/\text{NDF}: 56241.0/42$

diff_bpm1i02X_rms vs Slug



Right In: 922.557 $\pm$ 0.250 χ^2 /NDF: 168929.1/17

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

Right Out: 904.655 $\pm$ 0.236 χ^2 /NDF: 266339.6/19

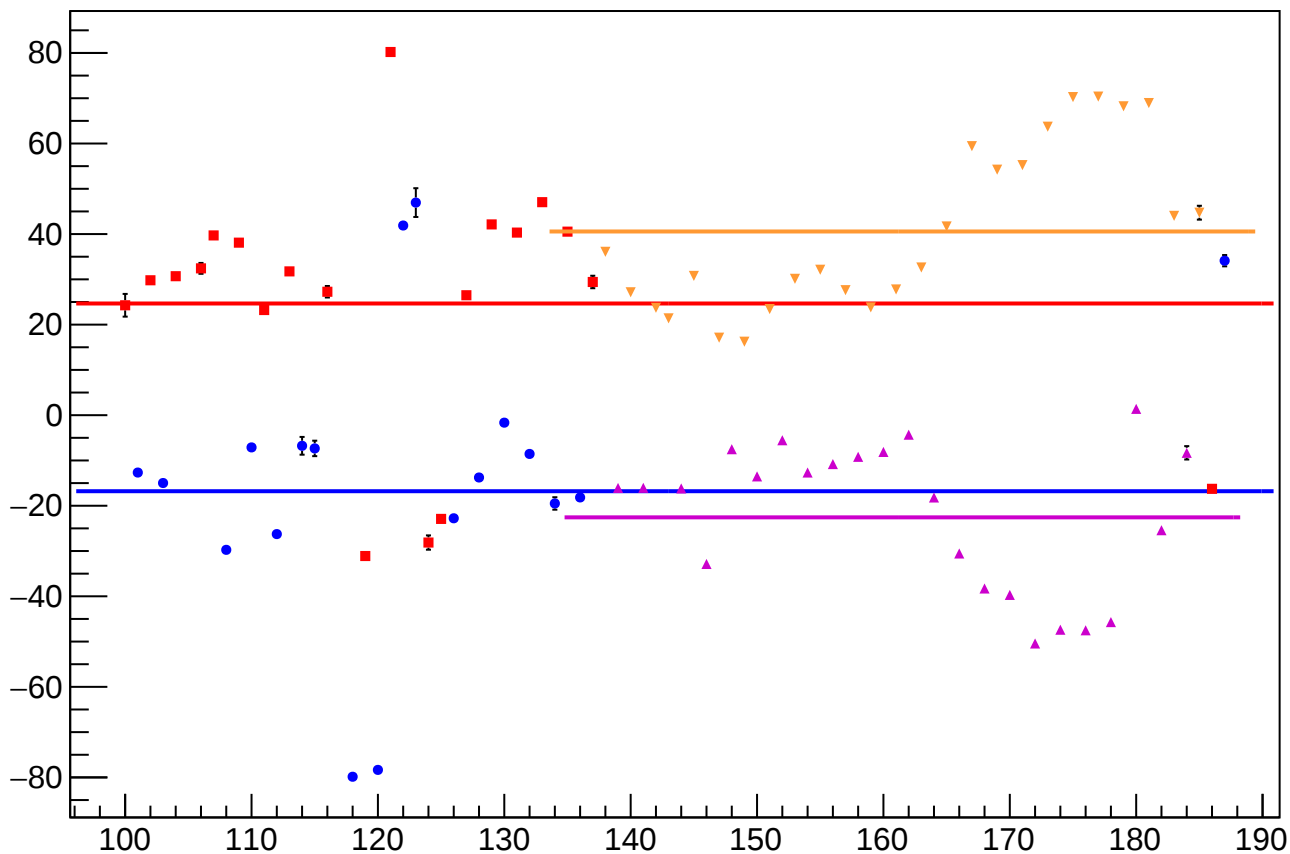
Left In: 913.165 $\pm$ 0.155 χ^2 /NDF: 174438.8/22

+ sign 910.042 $\pm$ 0.128 χ^2 /NDF: 334390.6/42

All: 910.309 $\pm$ 0.091 χ^2 /NDF: 776087.2/85

- sign 910.582 $\pm$ 0.130 χ^2 /NDF: 441687.8/42

diff_bpm1i02Y_mean vs Slug



Right In: -16.791±0.239 χ^2/NDF : 14726.8/17

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

Right Out: 24.668±0.226 χ^2/NDF : 15416.2/19

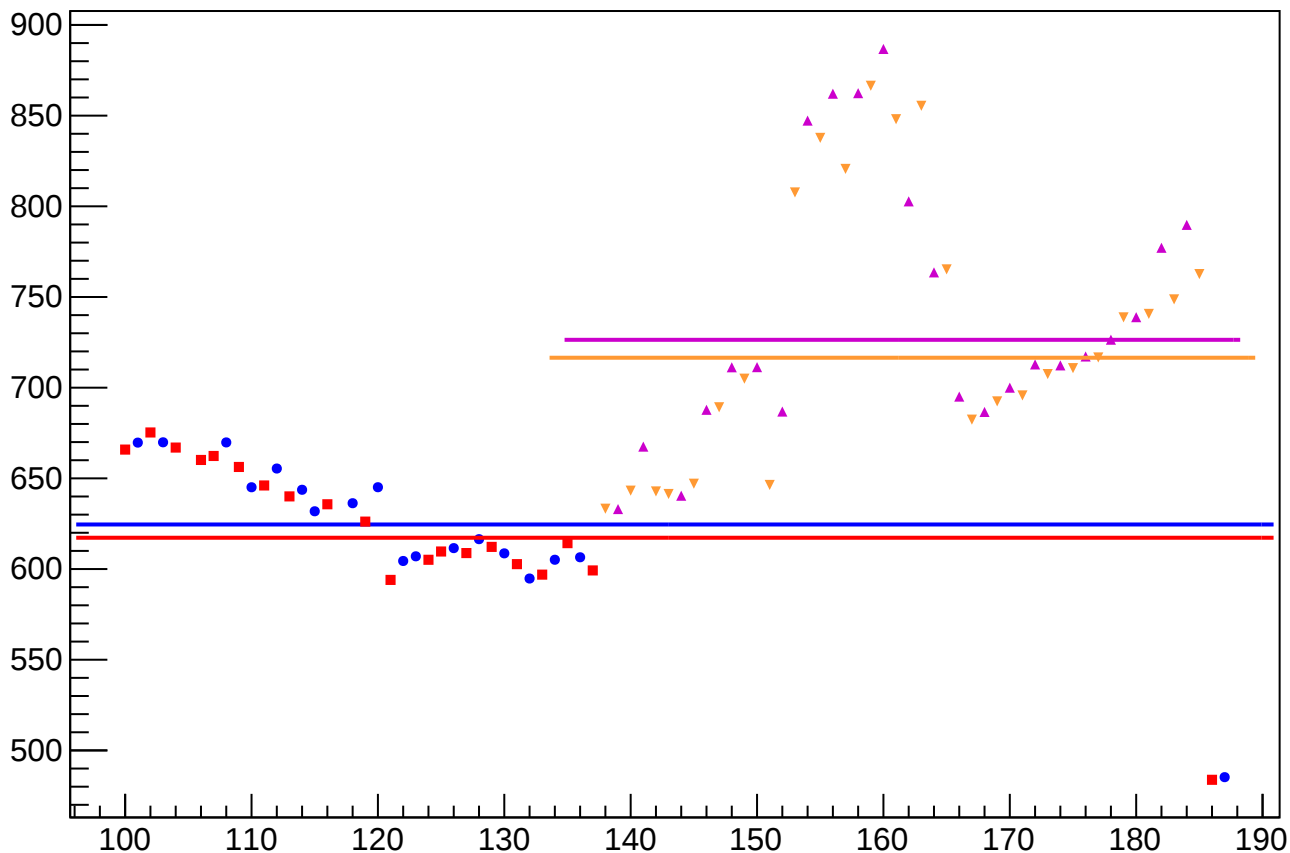
Left In: -22.565±0.175 χ^2/NDF :8167.7/22

+ sign 21.586±0.137 χ^2/NDF : 65469.4/42

All: 8.503±0.097 χ^2/NDF : 134676.6/85

- sign -4.807±0.138 χ^2/NDF : 50884.9/42

diff_bpm1i02Y_rms vs Slug



Right In: 624.571 ± 0.169 χ^2/NDF : 49121.4/17

Left Out: 716.515 ± 0.119 χ^2/NDF : 342740.2/24

Right Out: 617.260 ± 0.160 χ^2/NDF : 89098.3/19

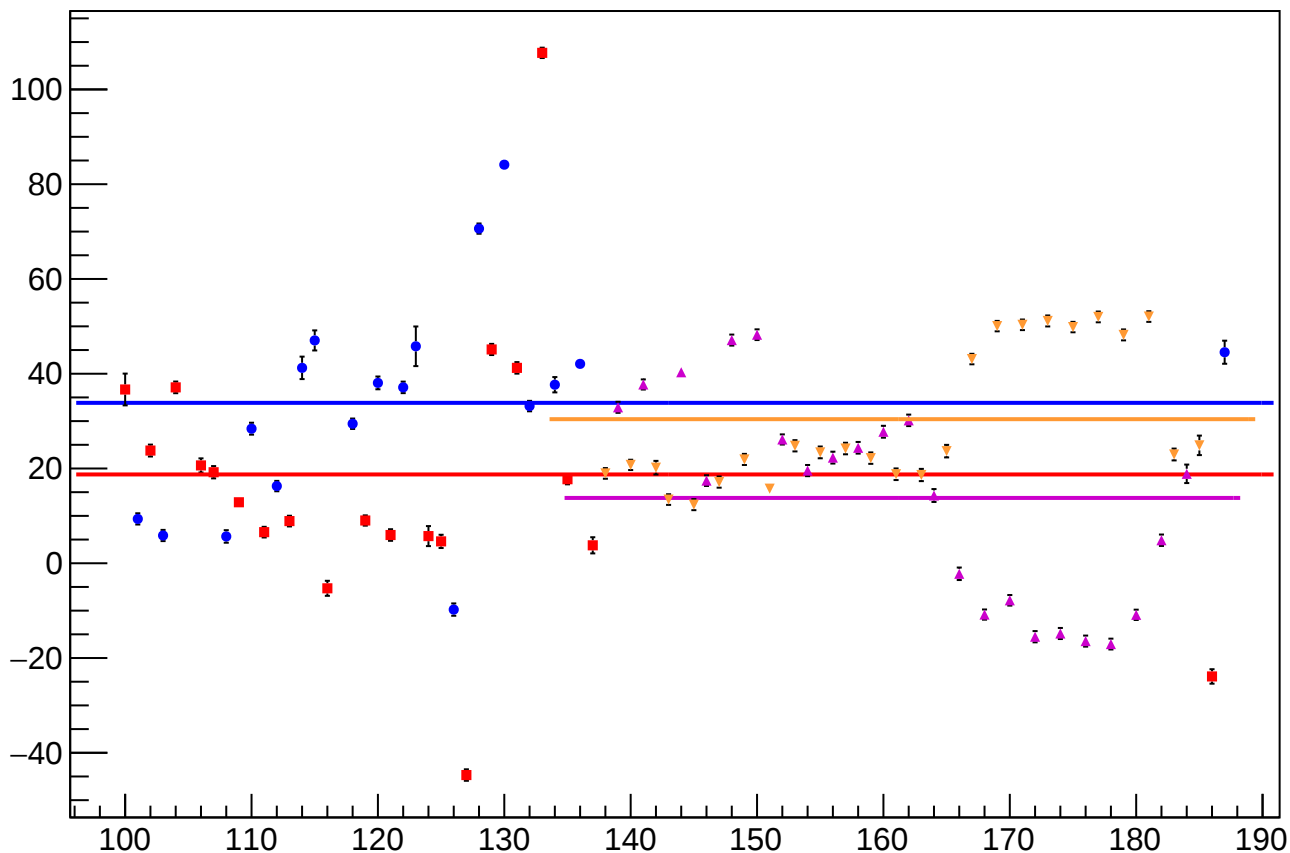
Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

+ sign 686.082 ± 0.097 χ^2/NDF : 590516.4/42

All: 685.724 ± 0.069 χ^2/NDF : 1260908.9/85

- sign 685.359 ± 0.098 χ^2/NDF : 670364.9/42

diff_bpm1i04X_mean vs Slug



Right In: 33.855 $\pm$ 0.298 χ^2 /NDF: 6447.7/17

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF: 3808.0/24

Right Out: 18.743 $\pm$ 0.288 χ^2 /NDF: 12086.4/19

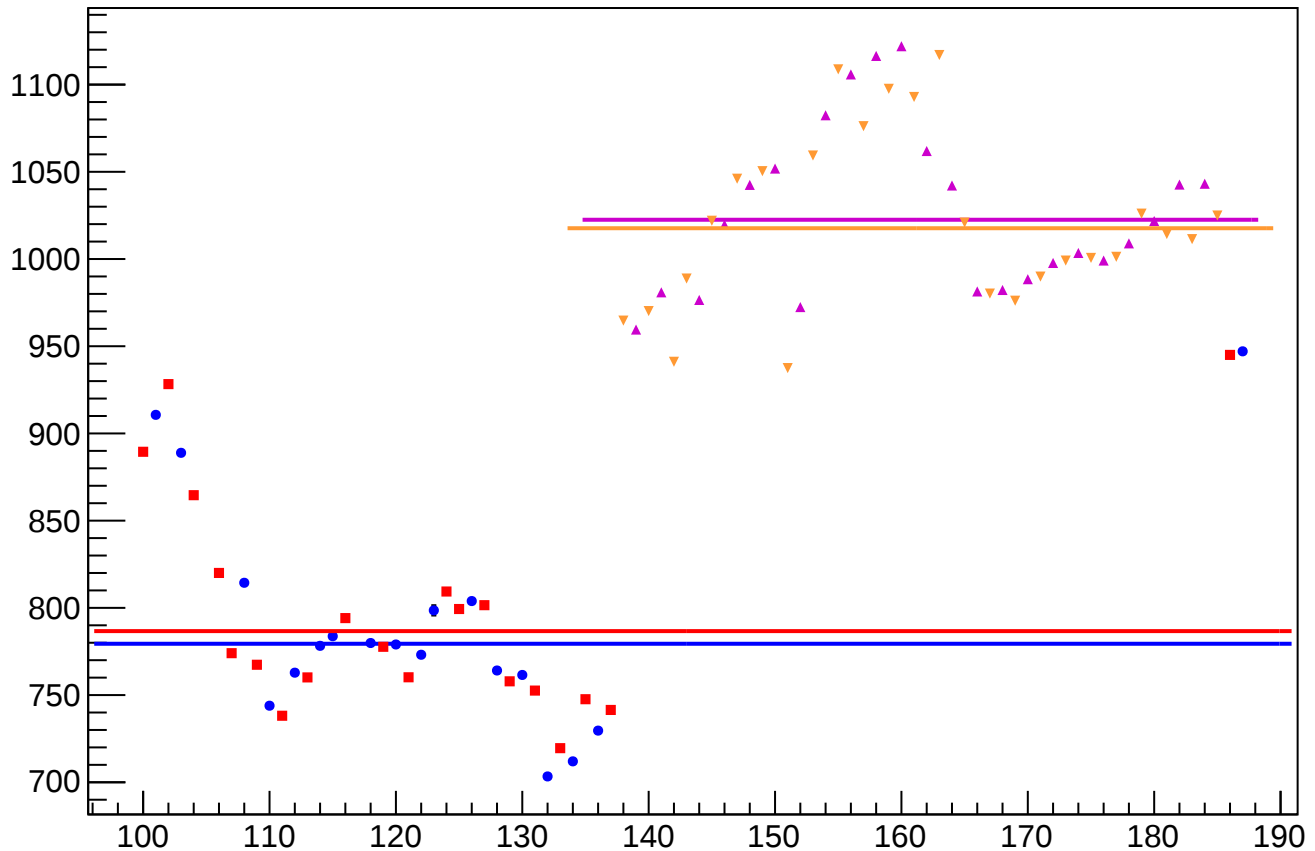
Left In: 13.787 $\pm$ 0.246 χ^2 /NDF: 7979.7/22

+ sign 31.745 $\pm$ 0.186 χ^2 /NDF: 10337.6/42

All: 23.862 $\pm$ 0.132 χ^2 /NDF: 34201.6/85

- sign 15.878 $\pm$ 0.187 χ^2 /NDF: 20237.6/42

diff_bpm1i04X_rms vs Slug



Right In: 779.420 ± 0.211 χ^2/NDF : 77067.5/17

Left Out: 1017.653 ± 0.168 χ^2/NDF : 83612.5/24

Right Out: 786.673 ± 0.203 χ^2/NDF : 79606.1/19

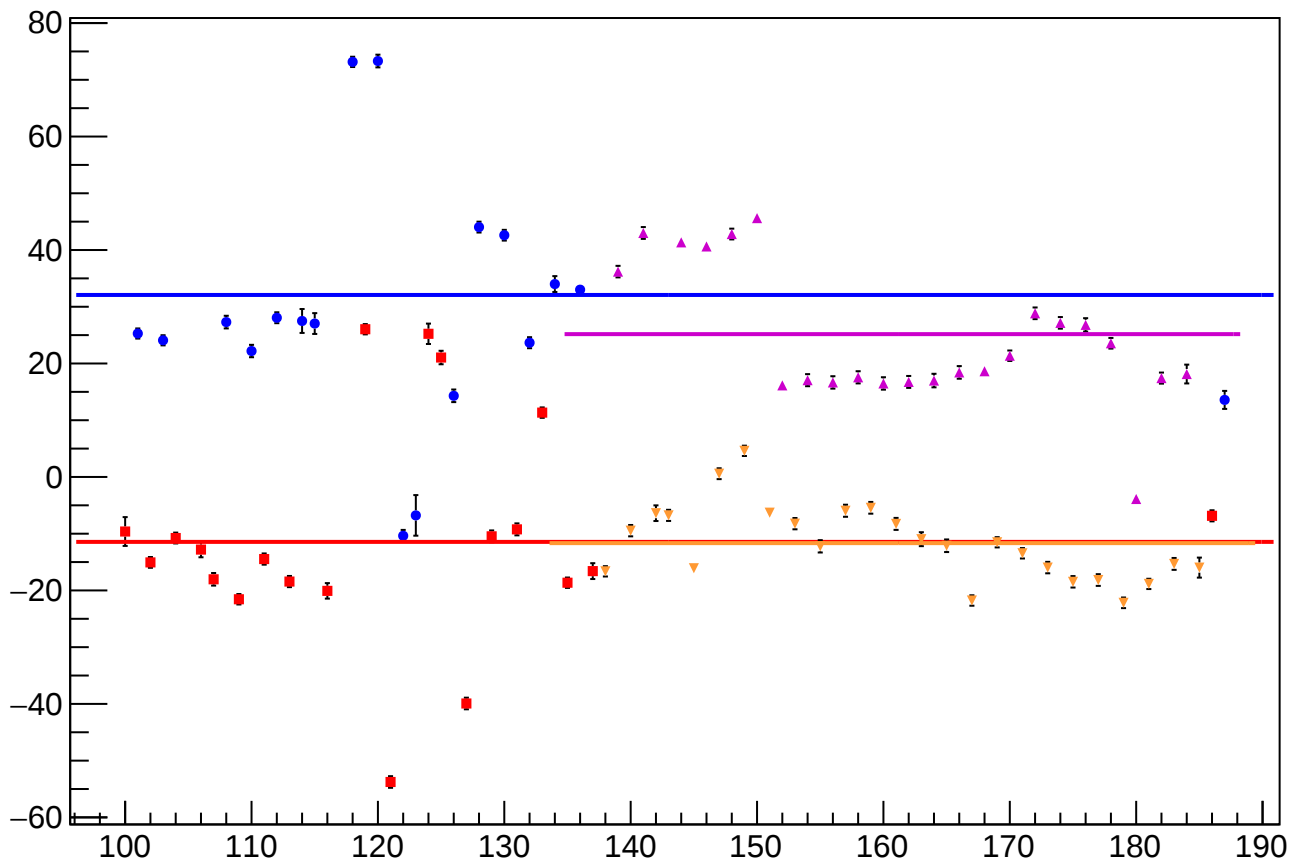
Left In: 1022.511 ± 0.174 χ^2/NDF : 69635.5/22

+ sign 925.227 ± 0.131 χ^2/NDF : 942075.9/42

All: 924.131 ± 0.093 χ^2/NDF : 1867988.3/85

- sign 923.021 ± 0.132 χ^2/NDF : 925772.3/42

diff_bpm1i04Y_mean vs Slug



Right In: 32.079 ± 0.250 χ^2/NDF : 6216.7/17

Left Out: -11.664 ± 0.200 χ^2/NDF : 1147.4/24

Right Out: -11.443 ± 0.240 χ^2/NDF : 6336.7/19

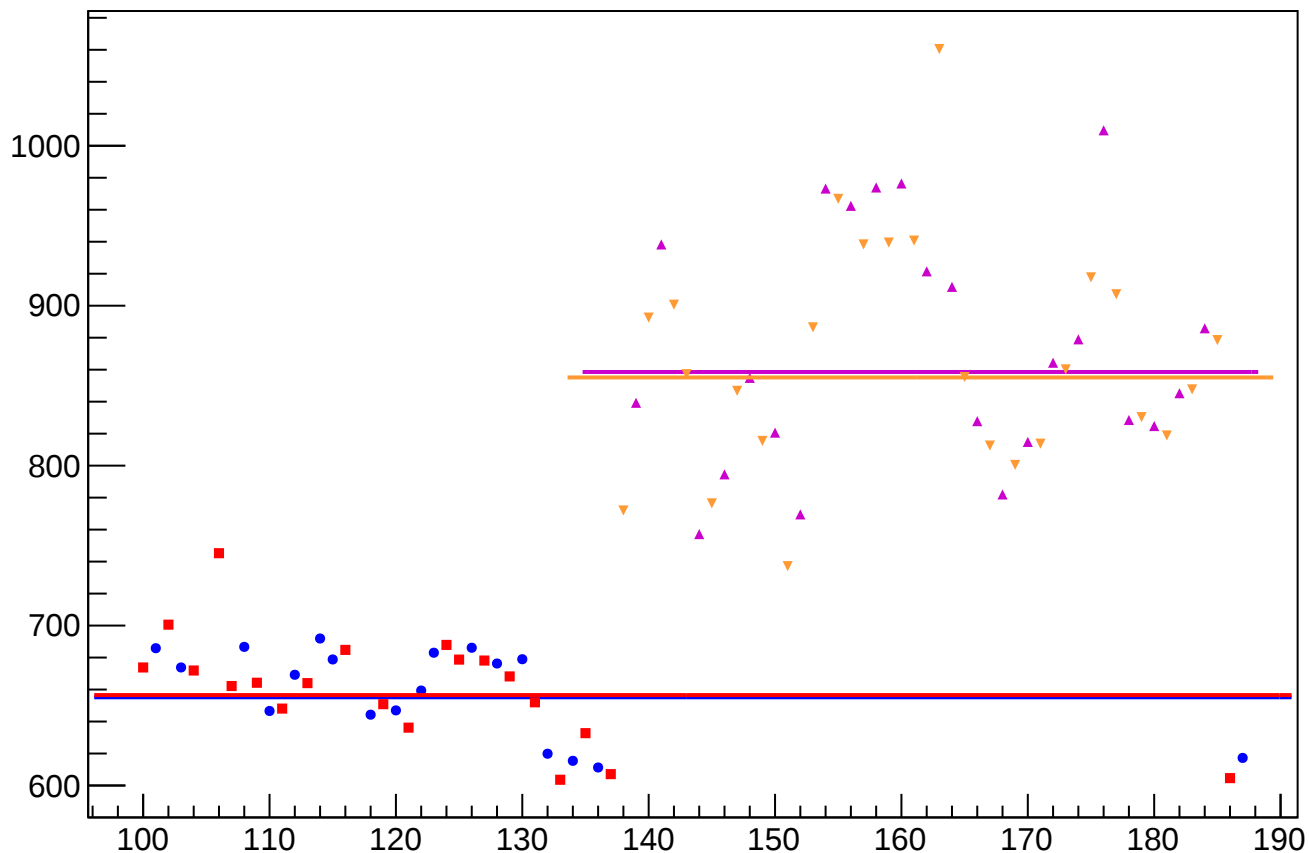
Left In: 25.174 ± 0.207 χ^2/NDF : 3747.1/22

+ sign 5.426 ± 0.156 χ^2/NDF : 25999.8/42

All: 7.462 ± 0.111 χ^2/NDF : 49759.8/85

- sign 9.511 ± 0.157 χ^2/NDF : 23419.8/42

diff_bpm1i04Y_rms vs Slug



Right In: 655.167 $\pm$ 0.177 χ^2 /NDF: 24687.9/17

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF:233746.7/24

Right Out: 656.535 $\pm$ 0.170 χ^2 /NDF: 34261.9/19

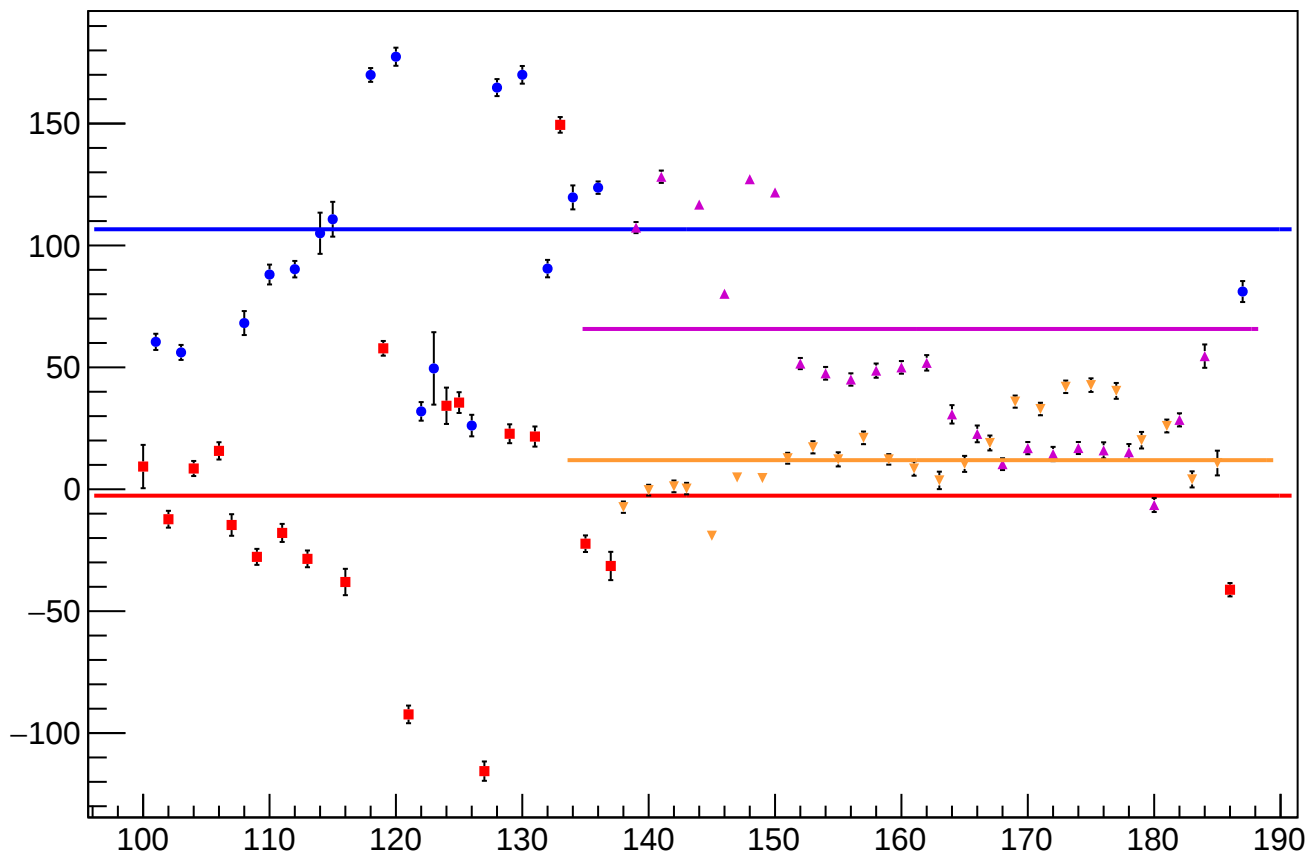
Left In: 858.563 $\pm$ 0.147 χ^2 /NDF:239019.8/22

+ sign 777.008 $\pm$ 0.111 χ^2 /NDF: 1037317.3/42

All: 774.587 $\pm$ 0.078 χ^2 /NDF: 2123498.8/85

- sign 772.148 $\pm$ 0.111 χ^2 /NDF: 1085218.4/42

diff_bpm1i06X_mean vs Slug



Right In: 106.640 $\pm$ 0.903 χ^2 /NDF: 2852.7/17

Left Out: 11.938 $\pm$ 0.505 χ^2 /NDF: 976.6/24

Right Out: -2.621 $\pm$ 0.842 χ^2 /NDF: 4733.1/19

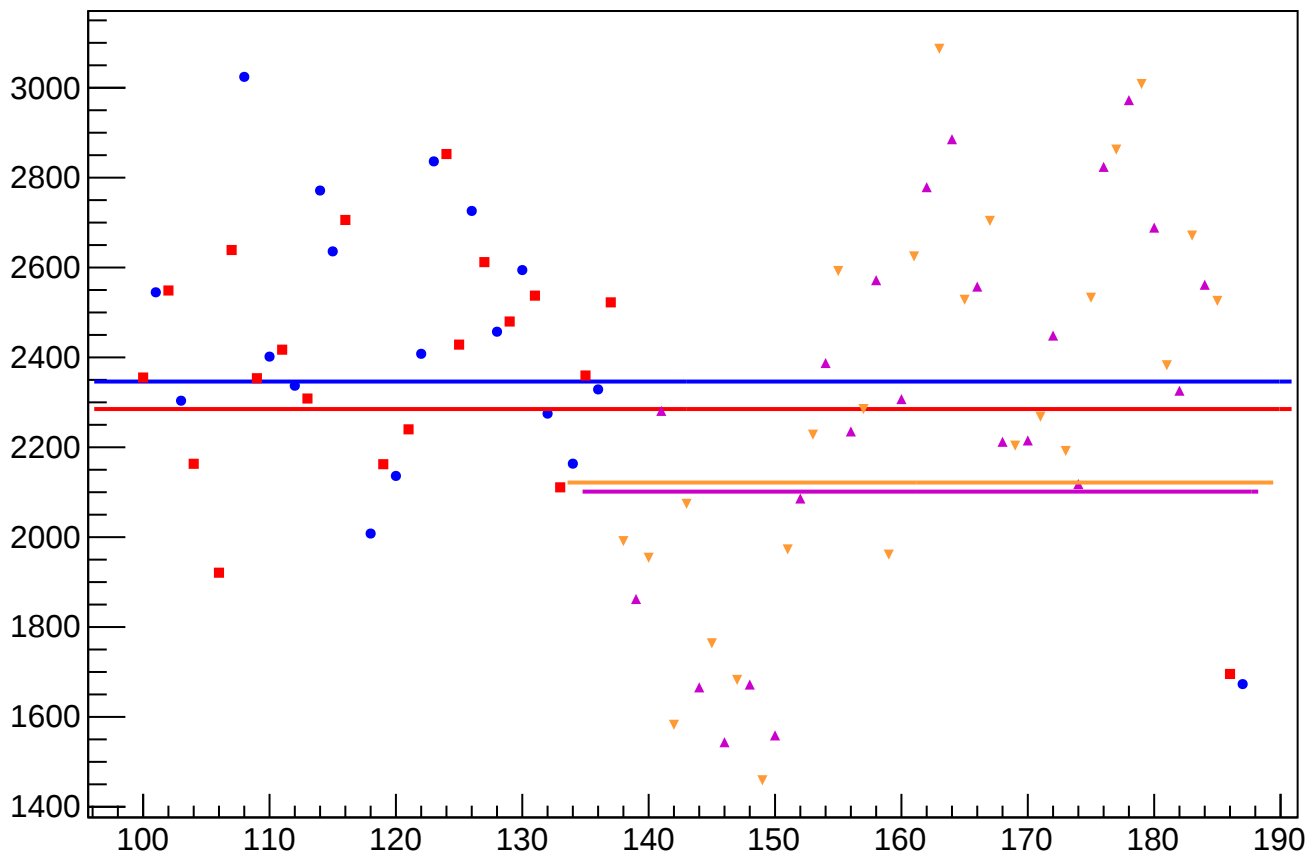
Left In: 65.752 $\pm$ 0.518 χ^2 /NDF: 7335.8/22

+ sign 34.539 $\pm$ 0.441 χ^2 /NDF: 12211.6/42

All: 40.769 $\pm$ 0.312 χ^2 /NDF: 29463.4/85

- sign 47.002 $\pm$ 0.441 χ^2 /NDF: 16852.4/42

diff_bpm1i06X_rms vs Slug



Right In: 2346.288+/-0.638 χ^2/NDF : 170655.7/17

Left Out: 2121.567+/-0.357 χ^2/NDF : 1387847.6/24

Right Out: 2285.093+/-0.596 χ^2/NDF : 210443.1/19

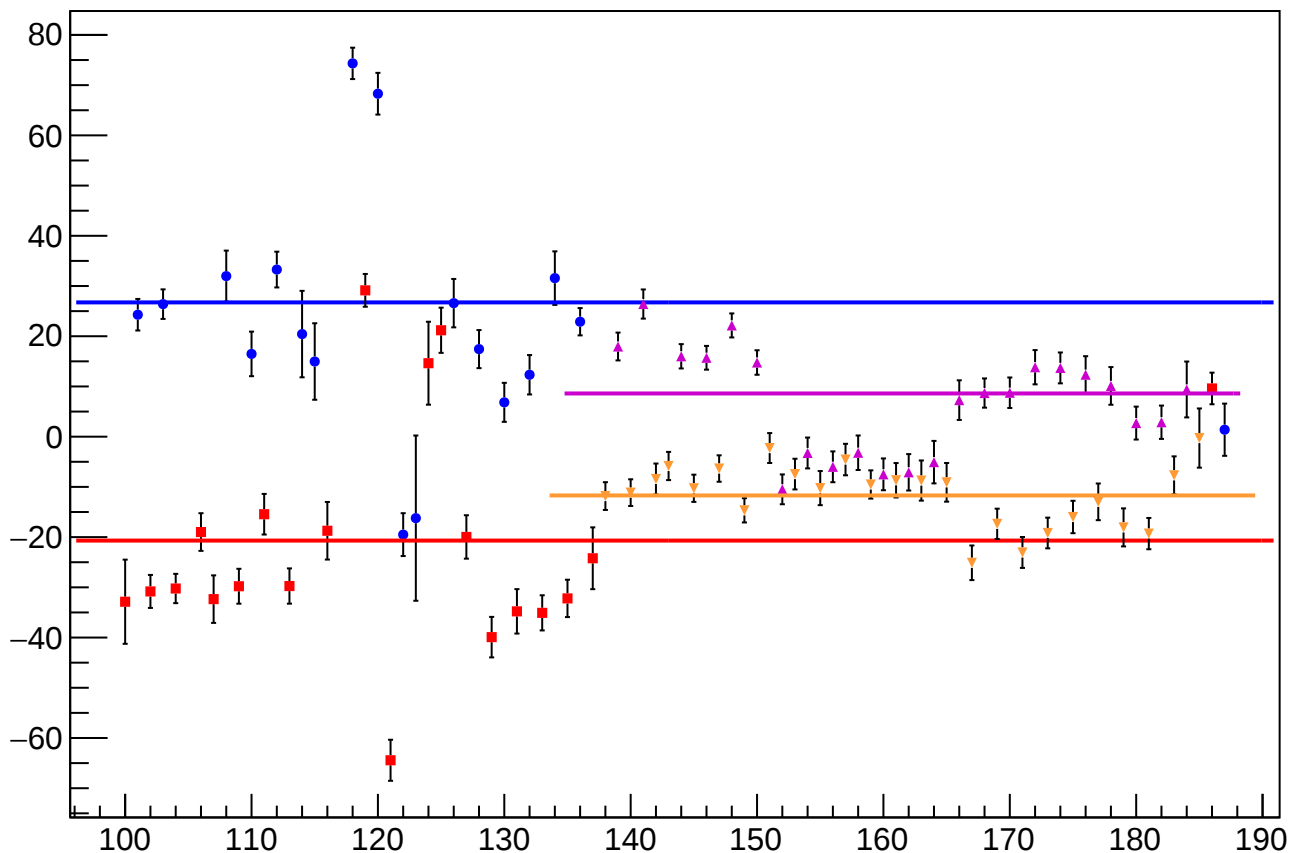
Left In: 2101.325+/-0.366 χ^2/NDF : 1360518.3/22

+ sign 2175.199+/-0.312 χ^2/NDF : 1652900.3/42

All: 2163.461+/-0.220 χ^2/NDF : 3295808.2/85

- sign 2151.718+/-0.312 χ^2/NDF : 1640072.6/42

diff_bpm1i06Y_mean vs Slug



Right In: 26.738 ± 0.960 χ^2/NDF : 541.7/17

Left Out: -11.700 ± 0.625 χ^2/NDF : 85.0/24

Right Out: -20.688 ± 0.891 χ^2/NDF : 648.8/19

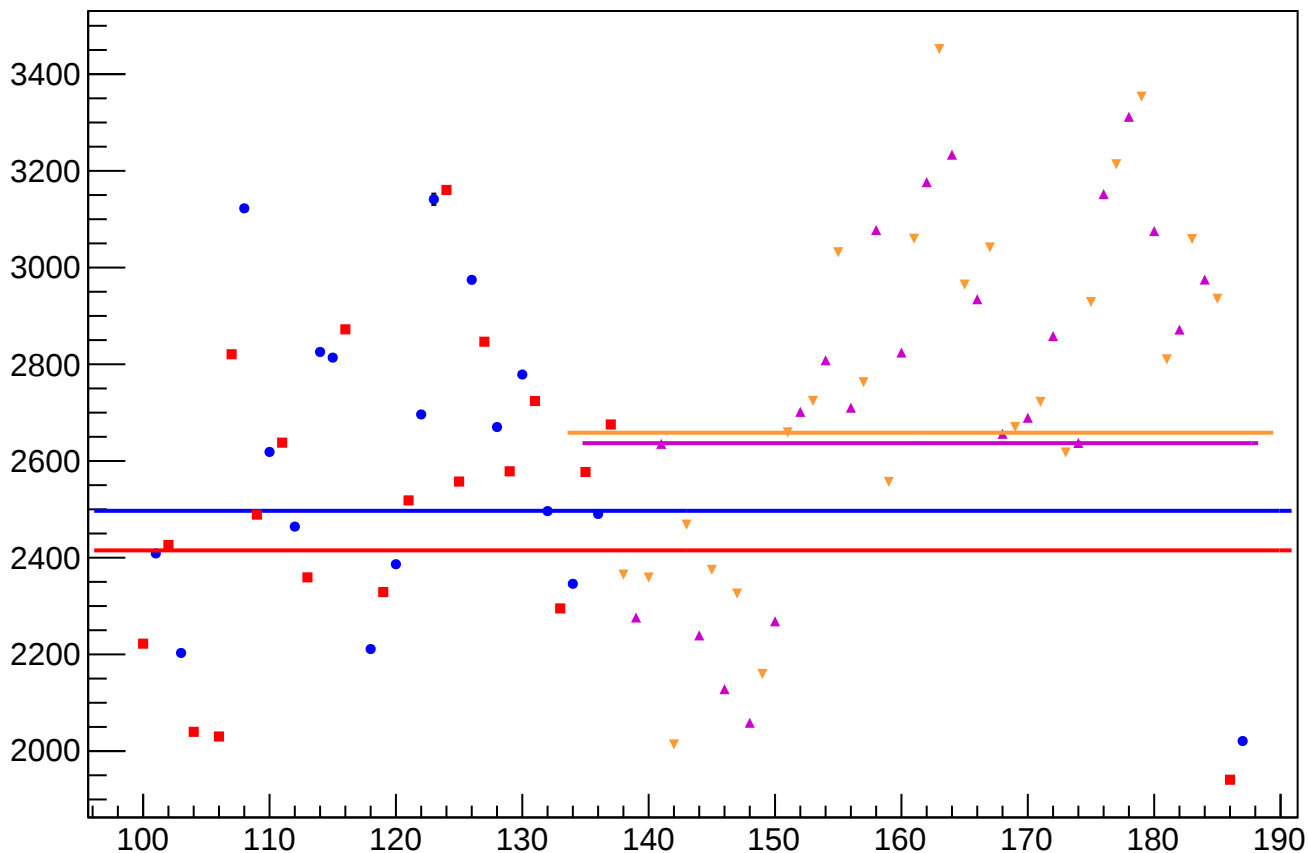
Left In: 8.606 ± 0.642 χ^2/NDF : 264.2/22

+ sign -0.239 ± 0.524 χ^2/NDF : 1752.9/42

All: -0.828 ± 0.369 χ^2/NDF : 3380.5/85

- sign -1.409 ± 0.521 χ^2/NDF : 1625.0/42

diff_bpm1i06Y_rms vs Slug



Right In: 2496.962 $\pm$ 0.679 χ^2 /NDF: 138237.9/17

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2415.101 $\pm$ 0.630 χ^2 /NDF: 199197.7/19

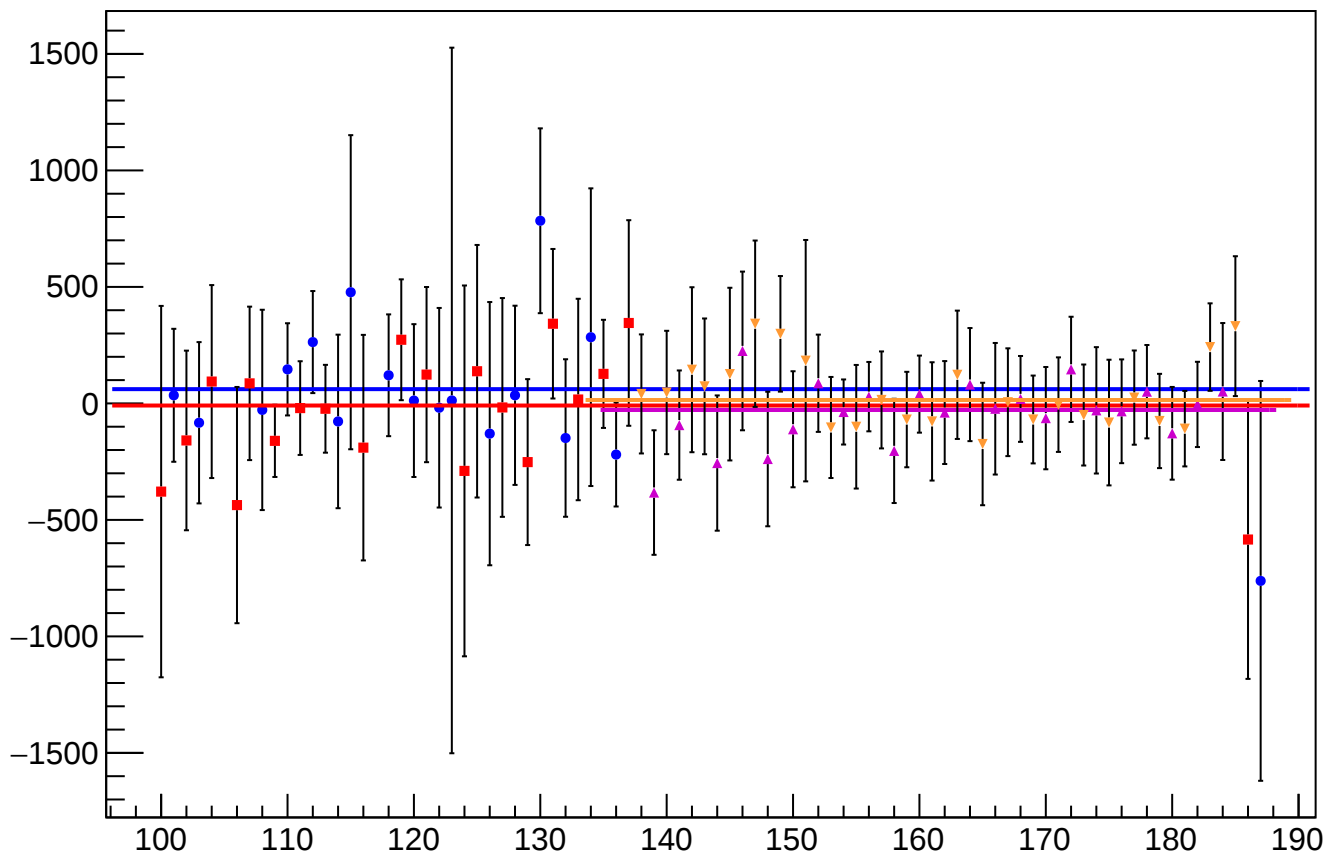
Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

+ sign 2610.325 $\pm$ 0.371 χ^2 /NDF: 796145.2/42

All: 2585.540 $\pm$ 0.261 χ^2 /NDF: 1738756.9/85

- sign 2561.058 $\pm$ 0.368 χ^2 /NDF: 933716.1/42

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 61.219+/-78.904 χ^2/NDF : 8.3/17

Left Out: 14.520+/-47.528 χ^2/NDF : 7.8/24

Right Out: -9.074+/-69.516 χ^2/NDF : 7.4/19

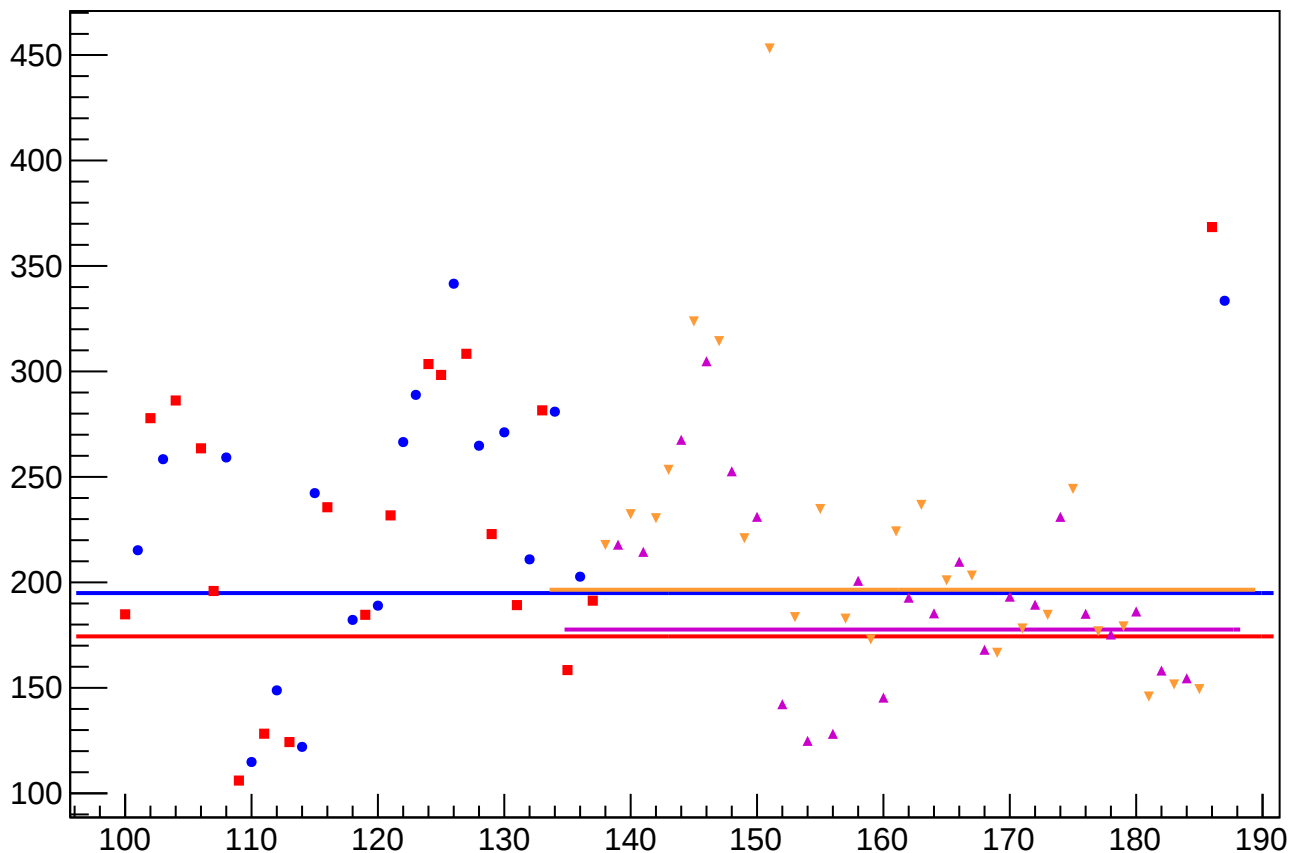
Left In: -28.310+/-44.638 χ^2/NDF : 6.3/22

+ sign 26.953+/-40.713 χ^2/NDF : 16.4/42

All: 0.134+/-27.607 χ^2/NDF : 30.9/85

- sign -22.694+/-37.561 χ^2/NDF : 13.7/42

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 194.931 $\pm$ 0.056 χ^2/NDF : 1063725.8/17

Left Out: 196.514 $\pm$ 0.034 χ^2/NDF : 1789504.4/24

Right Out: 174.398 $\pm$ 0.049 χ^2/NDF : 1784755.5/19

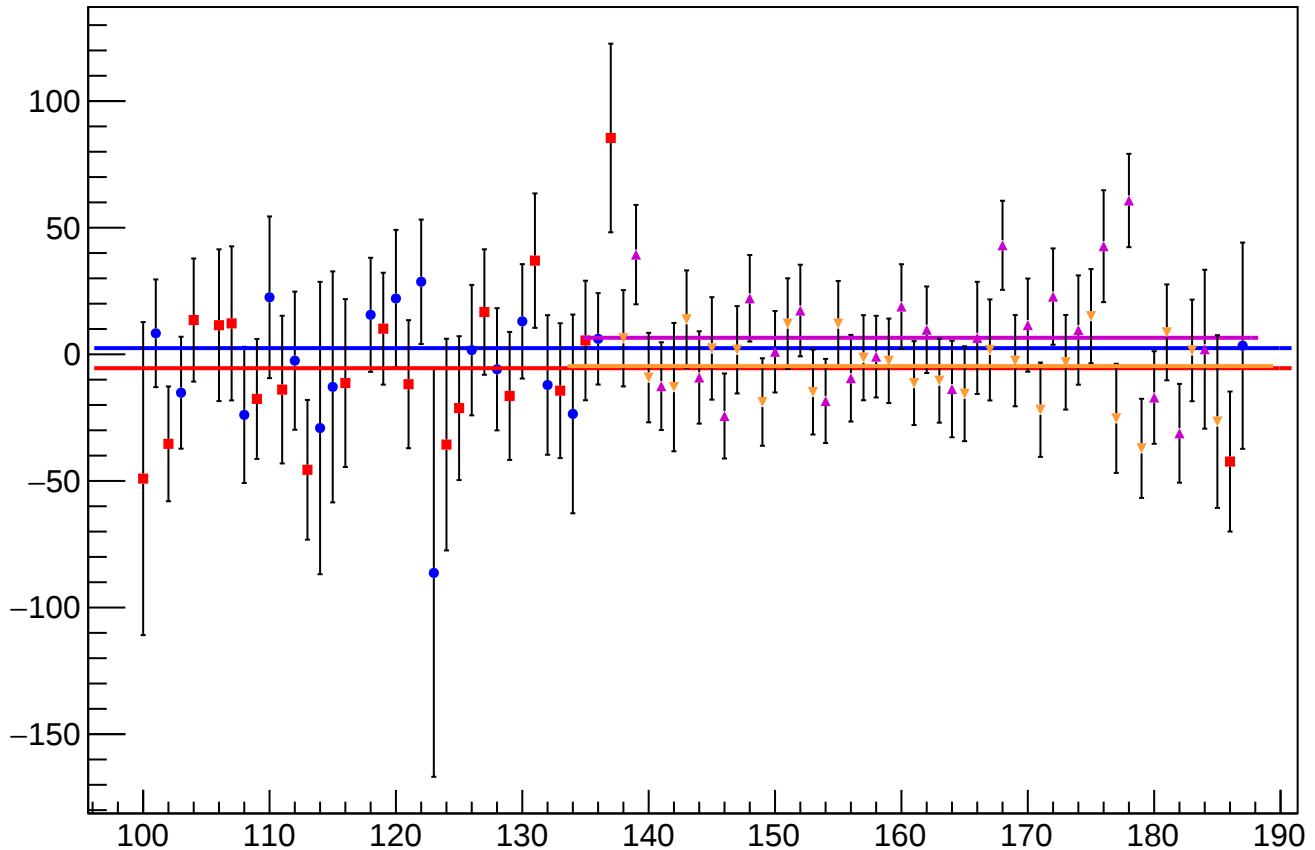
Left In: 177.643 $\pm$ 0.032 χ^2/NDF : 1630664.5/22

+ sign 196.093 $\pm$ 0.029 χ^2/NDF : 2853821.1/42

All: 185.614 $\pm$ 0.020 χ^2/NDF : 6517564.1/85

- sign 176.696 $\pm$ 0.027 χ^2/NDF : 3418506.8/42

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.447 ± 6.361 χ^2/NDF : 6.8/17

Left Out: -4.646 ± 3.728 χ^2/NDF : 12.1/24

Right Out: -5.481 ± 6.137 χ^2/NDF : 19.0/19

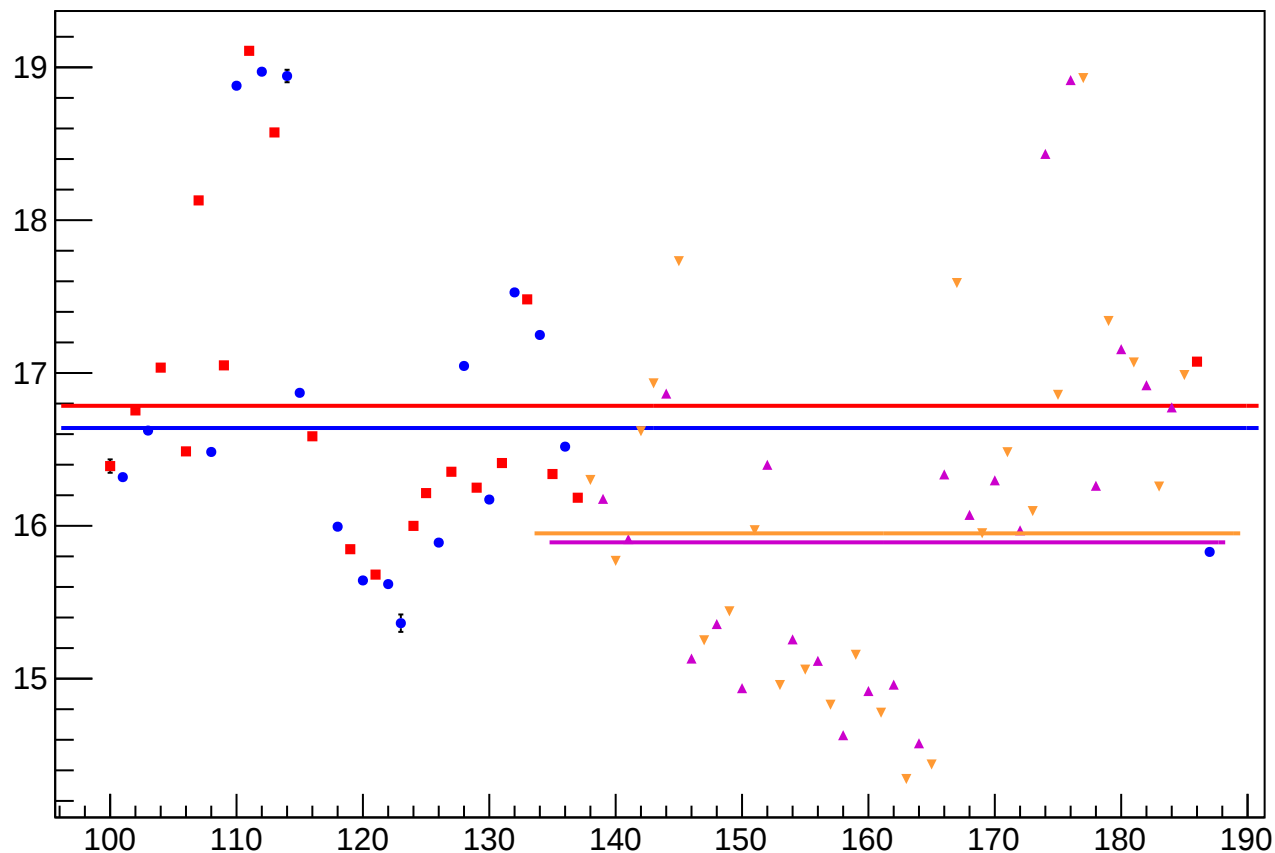
Left In: 6.526 ± 3.828 χ^2/NDF : 36.4/22

+ sign -2.833 ± 3.216 χ^2/NDF : 19.8/42

All: 0.136 ± 2.285 χ^2/NDF : 79.7/85

- sign 3.164 ± 3.248 χ^2/NDF : 58.2/42

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 16.640 $\pm$ 0.004 χ^2 /NDF: 43081.7/17

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.785 $\pm$ 0.004 χ^2 /NDF: 39489.1/19

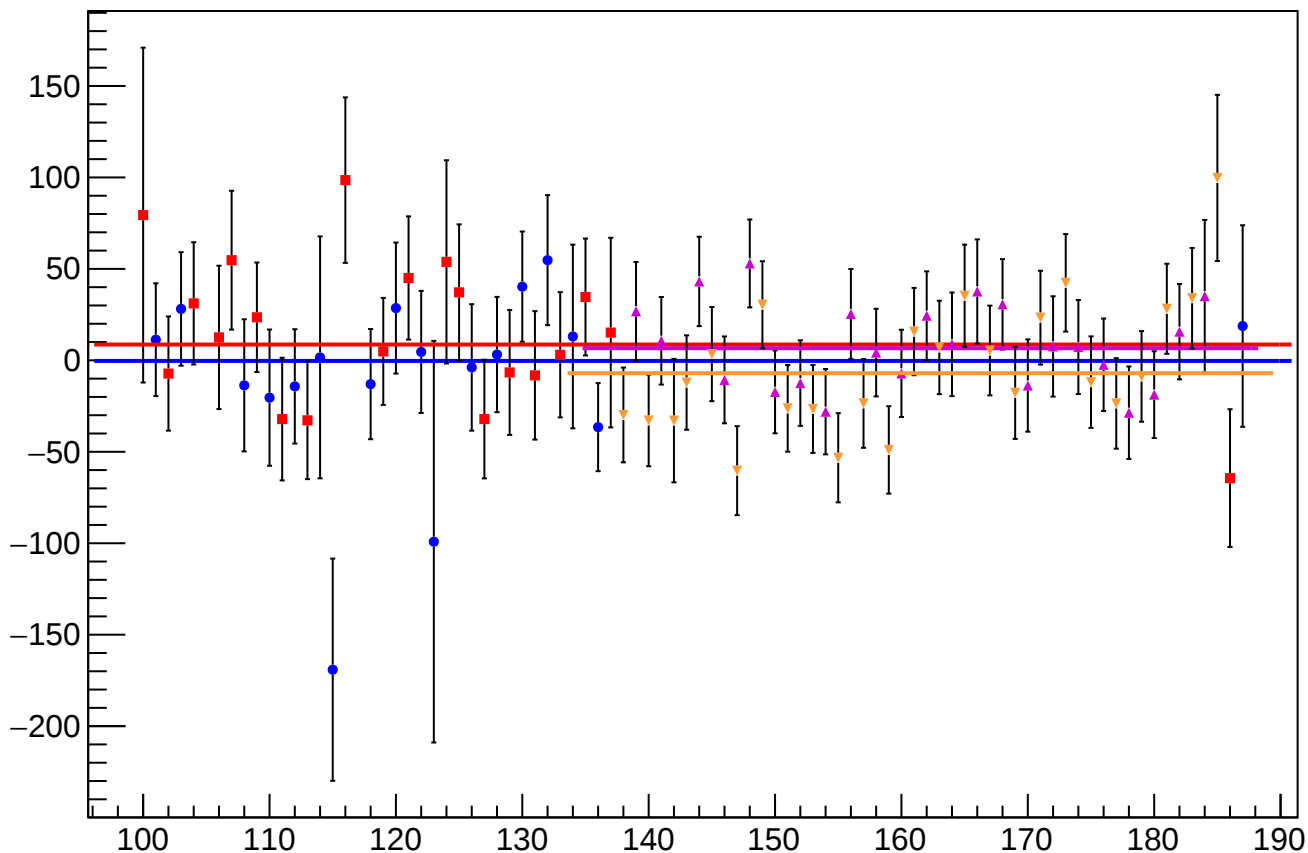
Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

+ sign 16.127 $\pm$ 0.002 χ^2 /NDF: 234019.6/42

All: 16.134 $\pm$ 0.002 χ^2 /NDF: 451143.9/85

- sign 16.142 $\pm$ 0.002 χ^2 /NDF: 217102.3/42

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: -0.310 ± 8.406 χ^2/NDF : 17.7/17

Left Out: -7.017 ± 5.121 χ^2/NDF : 37.4/24

Right Out: 8.651 ± 8.039 χ^2/NDF : 19.0/19

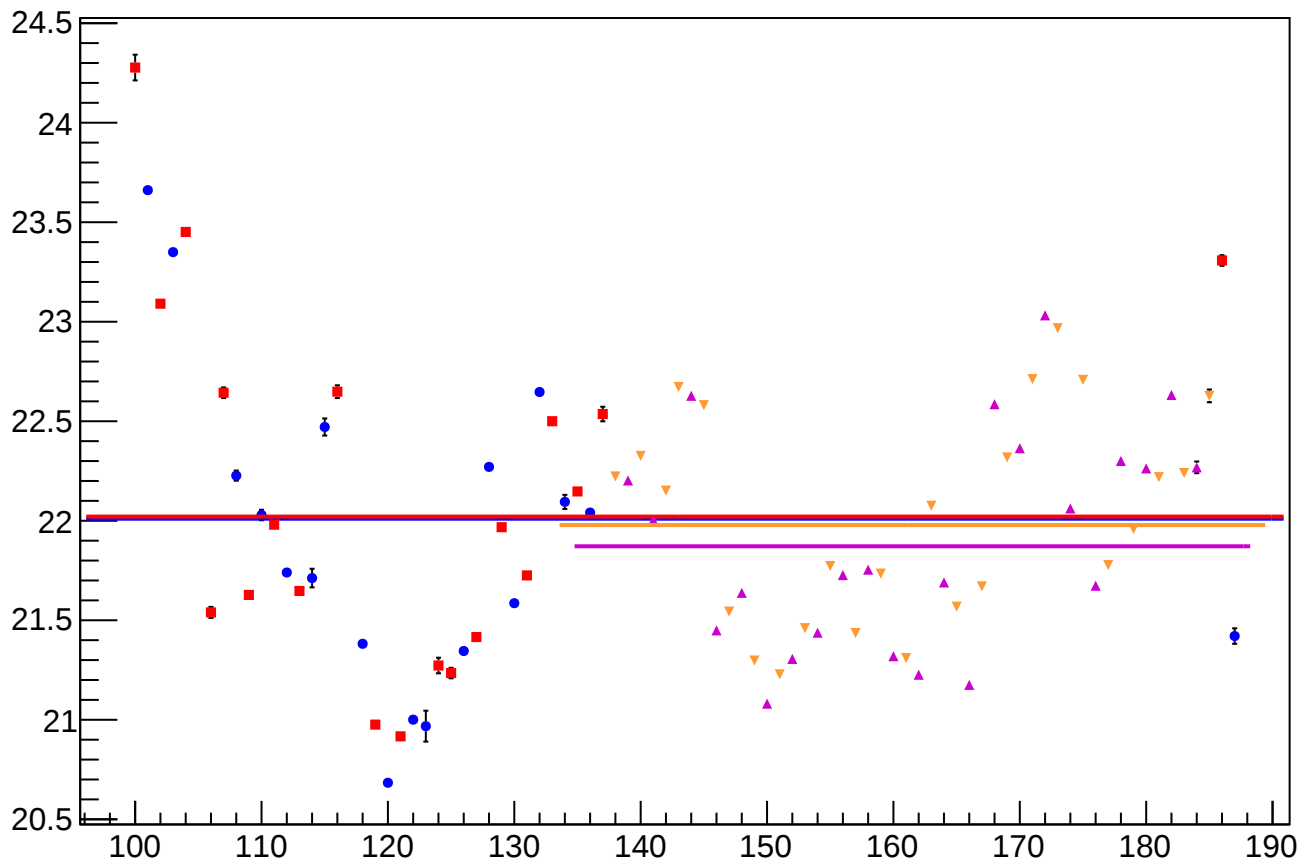
Left In: 6.611 ± 5.251 χ^2/NDF : 19.1/22

+ sign -5.202 ± 4.373 χ^2/NDF : 55.6/42

All: 0.977 ± 3.101 χ^2/NDF : 97.8/85

- sign 7.221 ± 4.396 χ^2/NDF : 38.2/42

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 22.010 $\pm$ 0.006 χ^2 /NDF: 17615.5/17

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 22.021 $\pm$ 0.006 χ^2 /NDF: 18827.9/19

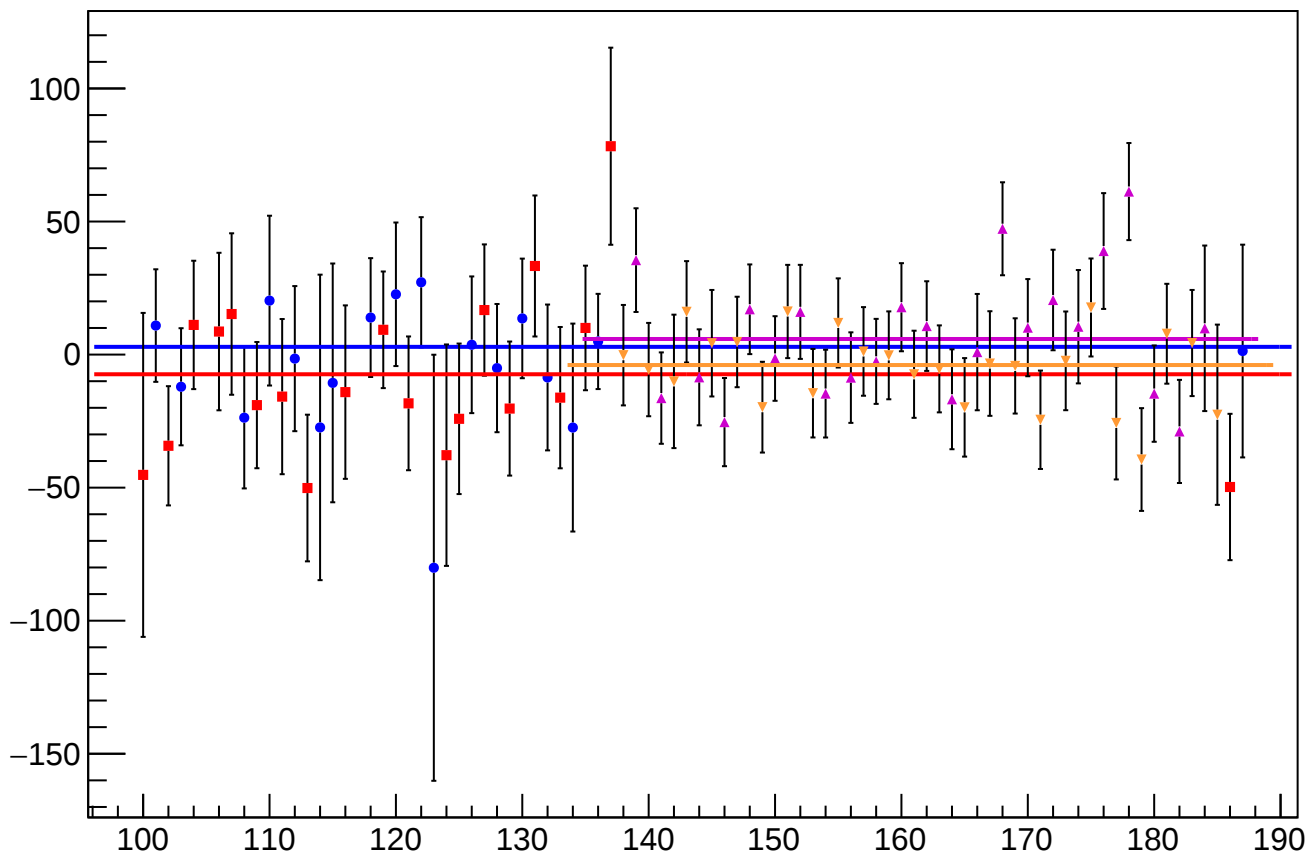
Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

+ sign 21.987 $\pm$ 0.003 χ^2 /NDF: 37066.8/42

All: 21.952 $\pm$ 0.002 χ^2 /NDF: 77162.1/85

- sign 21.916 $\pm$ 0.003 χ^2 /NDF: 39835.6/42

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 2.908 ± 6.323 χ^2/NDF : 6.3/17

Left Out: -3.927 ± 3.688 χ^2/NDF : 14.0/24

Right Out: -7.394 ± 6.102 χ^2/NDF : 19.7/19

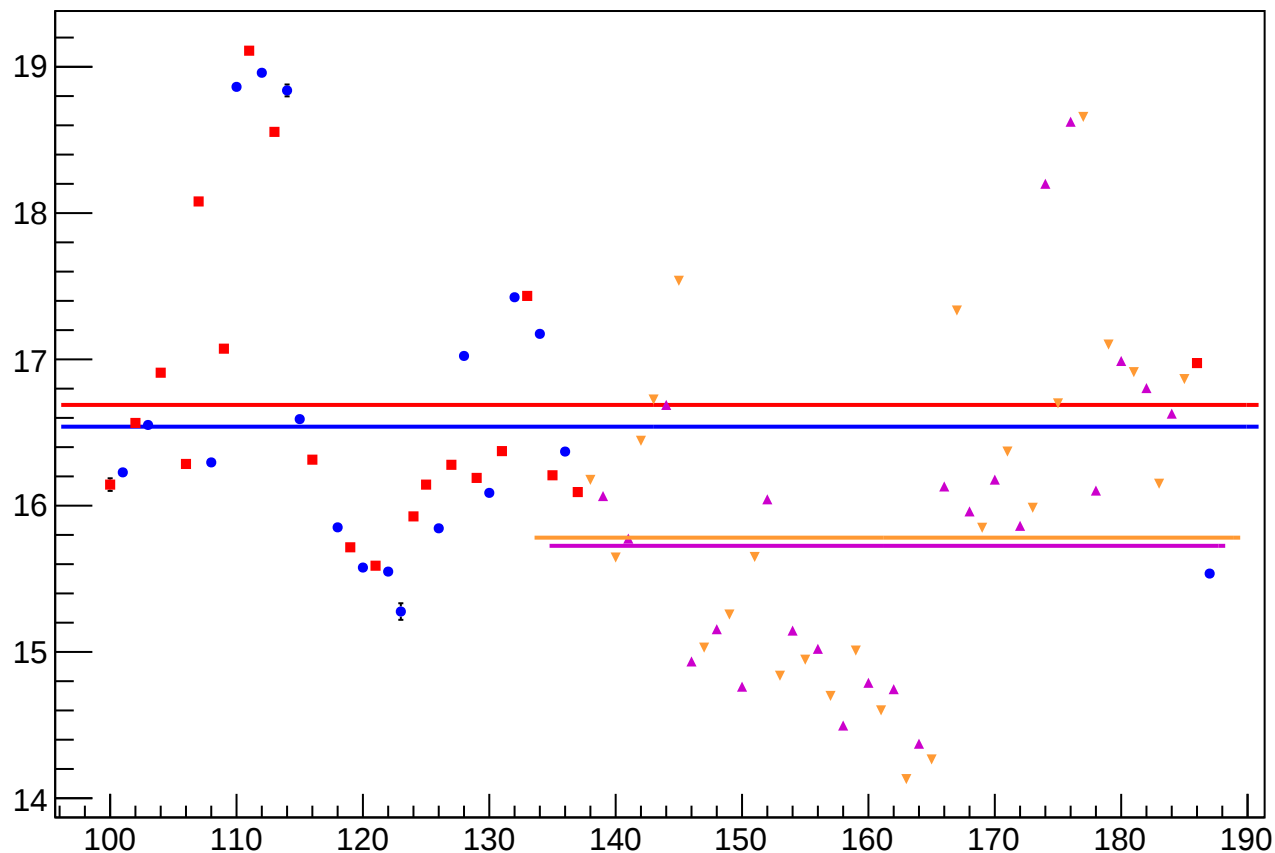
Left In: 5.861 ± 3.787 χ^2/NDF : 36.2/22

+ sign -2.193 ± 3.186 χ^2/NDF : 21.1/42

All: -0.030 ± 2.264 χ^2/NDF : 81.3/85

- sign 2.176 ± 3.218 χ^2/NDF : 59.3/42

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 16.540 $\pm$ 0.004 χ^2 /NDF: 45537.3/17

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF: 172894.3/24

Right Out: 16.689 $\pm$ 0.004 χ^2 /NDF: 42681.2/19

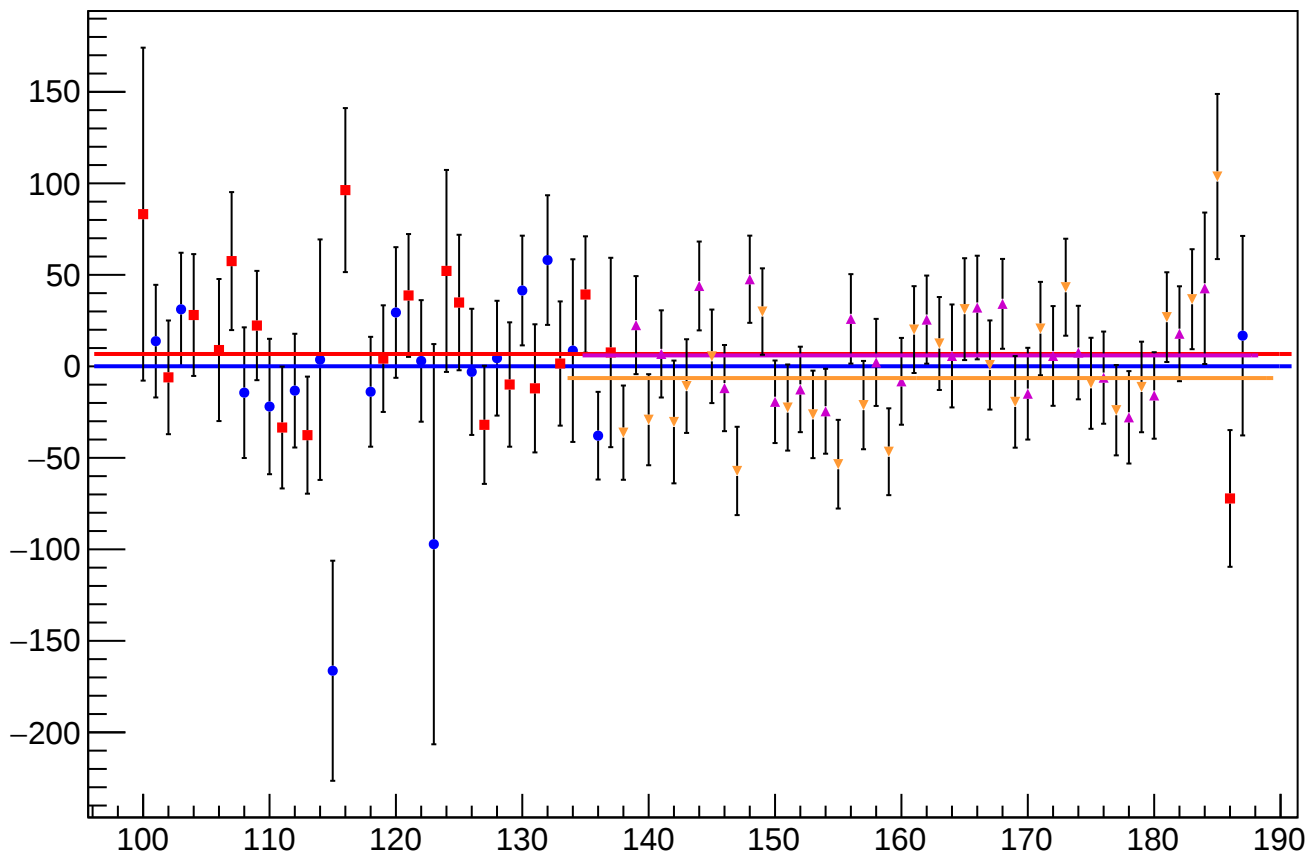
Left In: 15.725 $\pm$ 0.003 χ^2 /NDF: 145830.9/22

+ sign 15.974 $\pm$ 0.002 χ^2 /NDF: 239913.4/42

All: 15.983 $\pm$ 0.002 χ^2 /NDF: 464439.6/85

- sign 15.993 $\pm$ 0.002 χ^2 /NDF: 224489.5/42

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug



Right In: 0.045 $\pm$ 8.364 χ^2 /NDF: 18.5/17

Left Out: -6.404 $\pm$ 5.091 χ^2 /NDF: 37.4/24

Right Out: 6.757 $\pm$ 7.997 χ^2 /NDF: 20.4/19

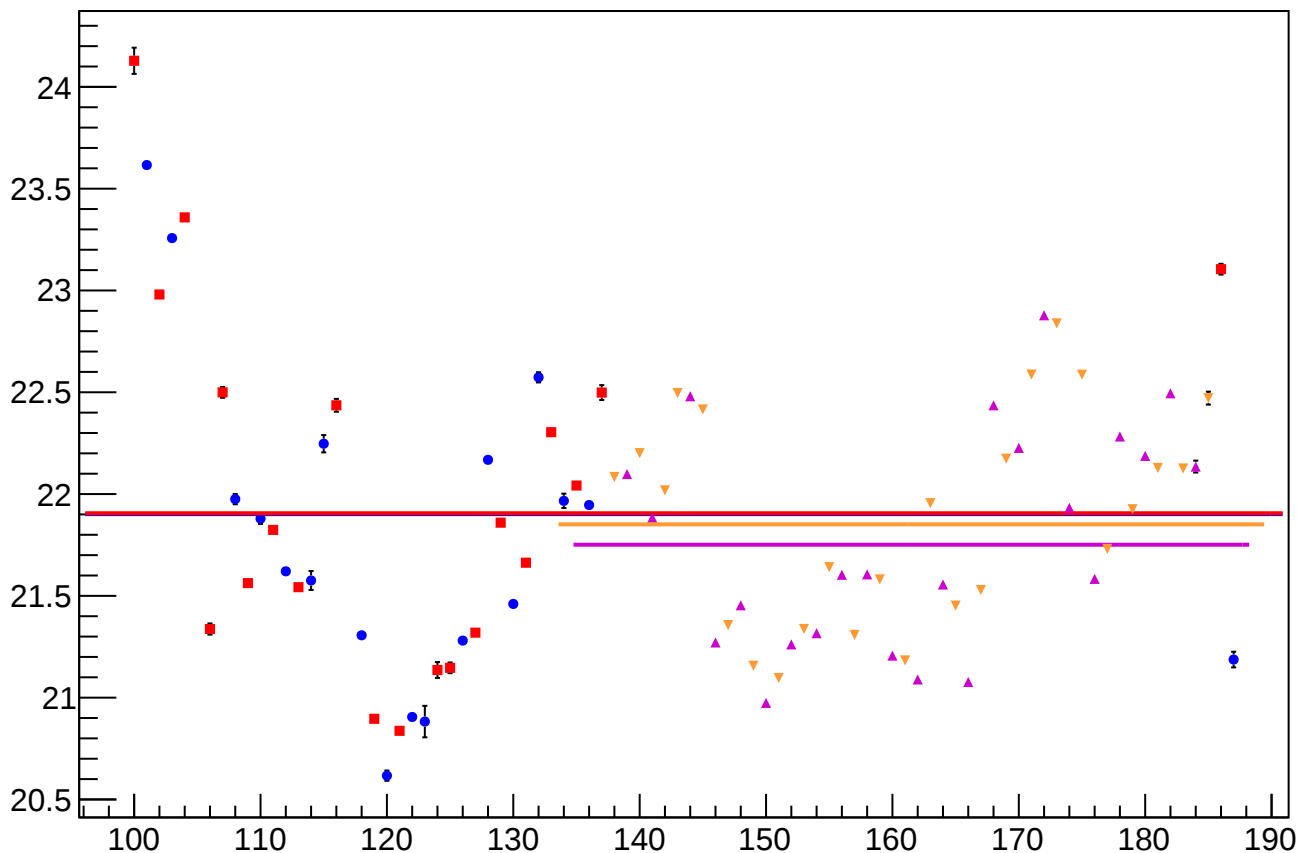
Left In: 5.978 $\pm$ 5.222 χ^2 /NDF: 18.5/22

+ sign -4.660 $\pm$ 4.349 χ^2 /NDF: 56.3/42

All: 0.746 $\pm$ 3.084 χ^2 /NDF: 98.4/85

- sign 6.211 $\pm$ 4.373 χ^2 /NDF: 39.0/42

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug



Right In: 21.901 $\pm$ 0.006 χ^2 /NDF: 17993.6/17

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.906 $\pm$ 0.006 χ^2 /NDF: 18190.5/19

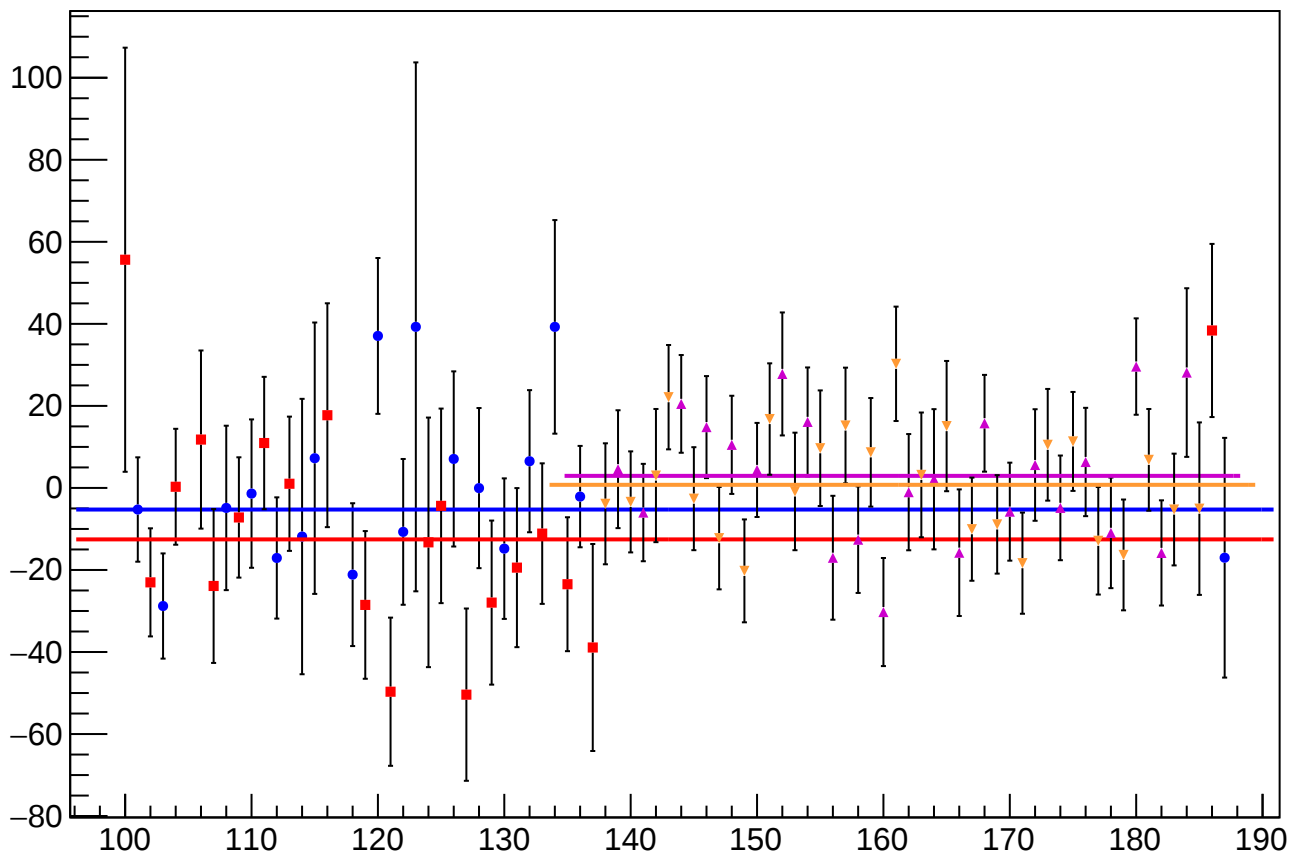
Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

+ sign 21.865 $\pm$ 0.003 χ^2 /NDF: 37678.2/42

All: 21.831 $\pm$ 0.002 χ^2 /NDF: 77146.9/85

- sign 21.797 $\pm$ 0.003 χ^2 /NDF: 39230.3/42

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -5.268 ± 4.287 $\chi^2/\text{NDF}: 14.9/17$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: -12.545 ± 4.186 $\chi^2/\text{NDF}: 25.5/19$

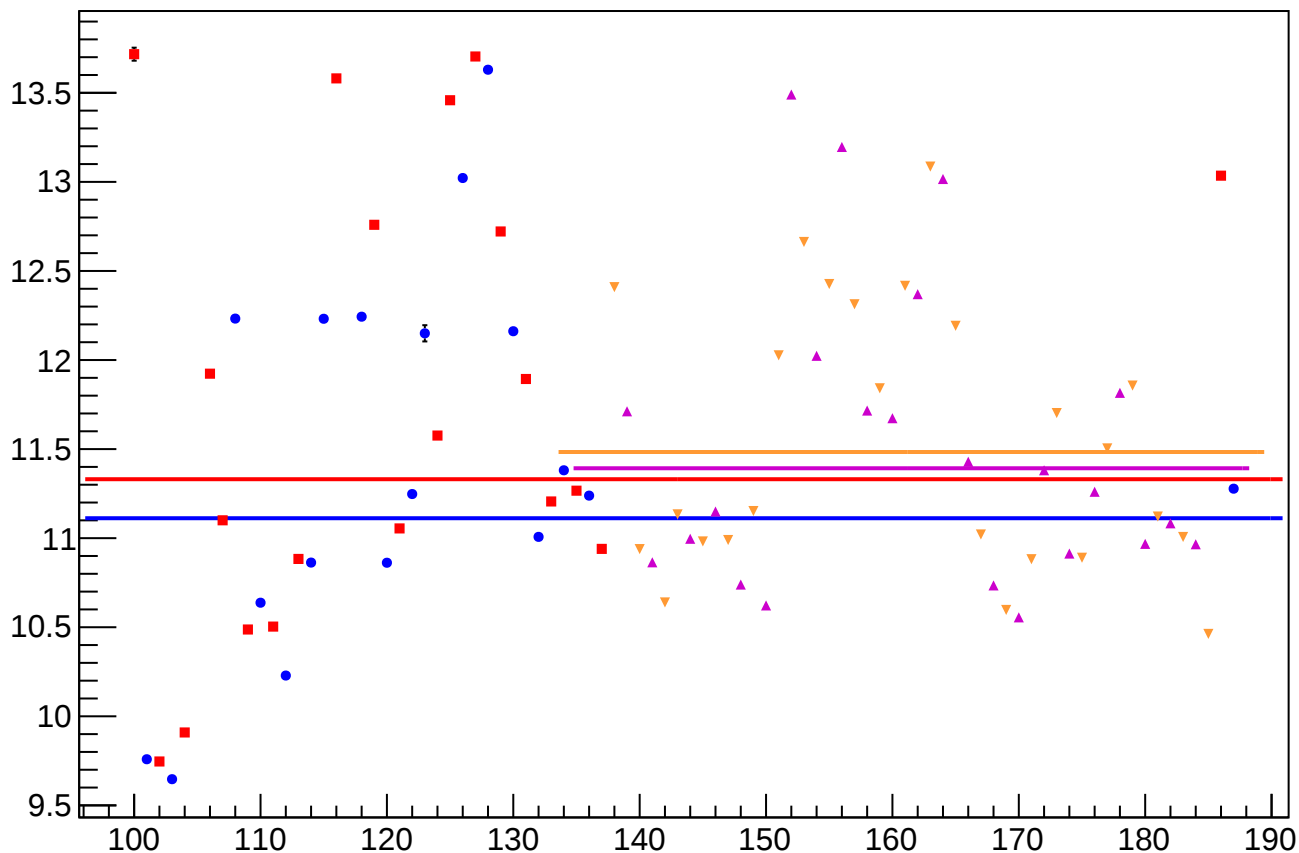
Left In: 2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

+ sign -0.951 ± 2.284 $\chi^2/\text{NDF}: 40.1/42$

All: -1.344 ± 1.621 $\chi^2/\text{NDF}: 106.2/85$

- sign -1.744 ± 2.303 $\chi^2/\text{NDF}: 65.9/42$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 11.112 $\pm$ 0.003 χ^2 /NDF: 132660.5/17

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF: 129805.4/24

Right Out: 11.331 $\pm$ 0.003 χ^2 /NDF: 162016.3/19

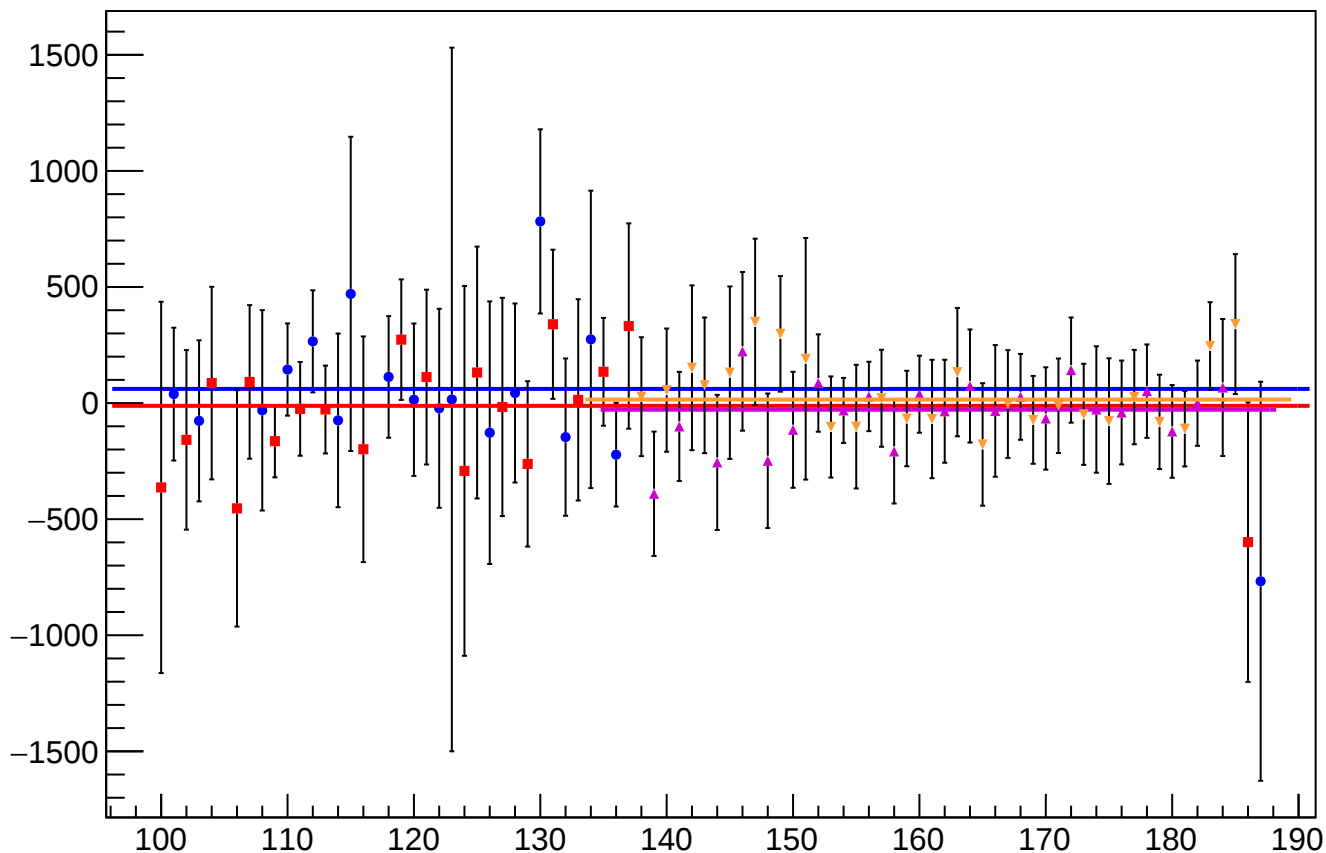
Left In: 11.392 $\pm$ 0.002 χ^2 /NDF: 150493.3/22

+ sign 11.378 $\pm$ 0.002 χ^2 /NDF: 273239.2/42

All: 11.376 $\pm$ 0.001 χ^2 /NDF: 586053.1/85

- sign 11.374 $\pm$ 0.002 χ^2 /NDF: 312810.3/42

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug



Right In: 61.034 ± 79.112 χ^2/NDF : 8.3/17

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -11.852 ± 69.722 χ^2/NDF : 7.5/19

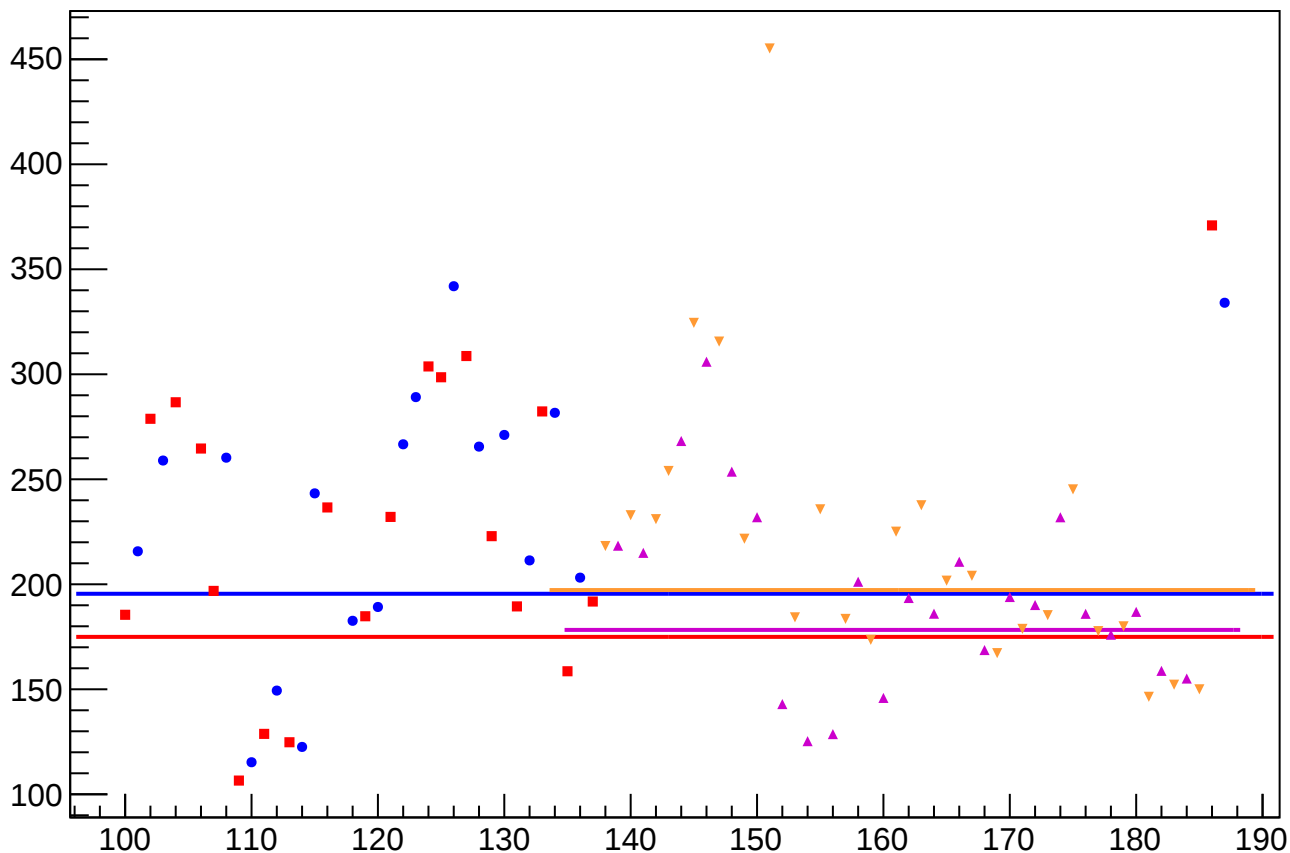
Left In: -28.500 ± 44.797 χ^2/NDF : 6.4/22

+ sign 27.371 ± 40.852 χ^2/NDF : 16.5/42

All: -0.184 ± 27.701 χ^2/NDF : 31.3/85

- sign -23.636 ± 37.688 χ^2/NDF : 13.9/42

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug



Right In: 195.482 $\pm$ 0.056 χ^2/NDF : 1058657.3/17

Left Out: 197.249 $\pm$ 0.034 χ^2/NDF : 1786808.1/24

Right Out: 174.955 $\pm$ 0.049 χ^2/NDF : 1778748.1/19

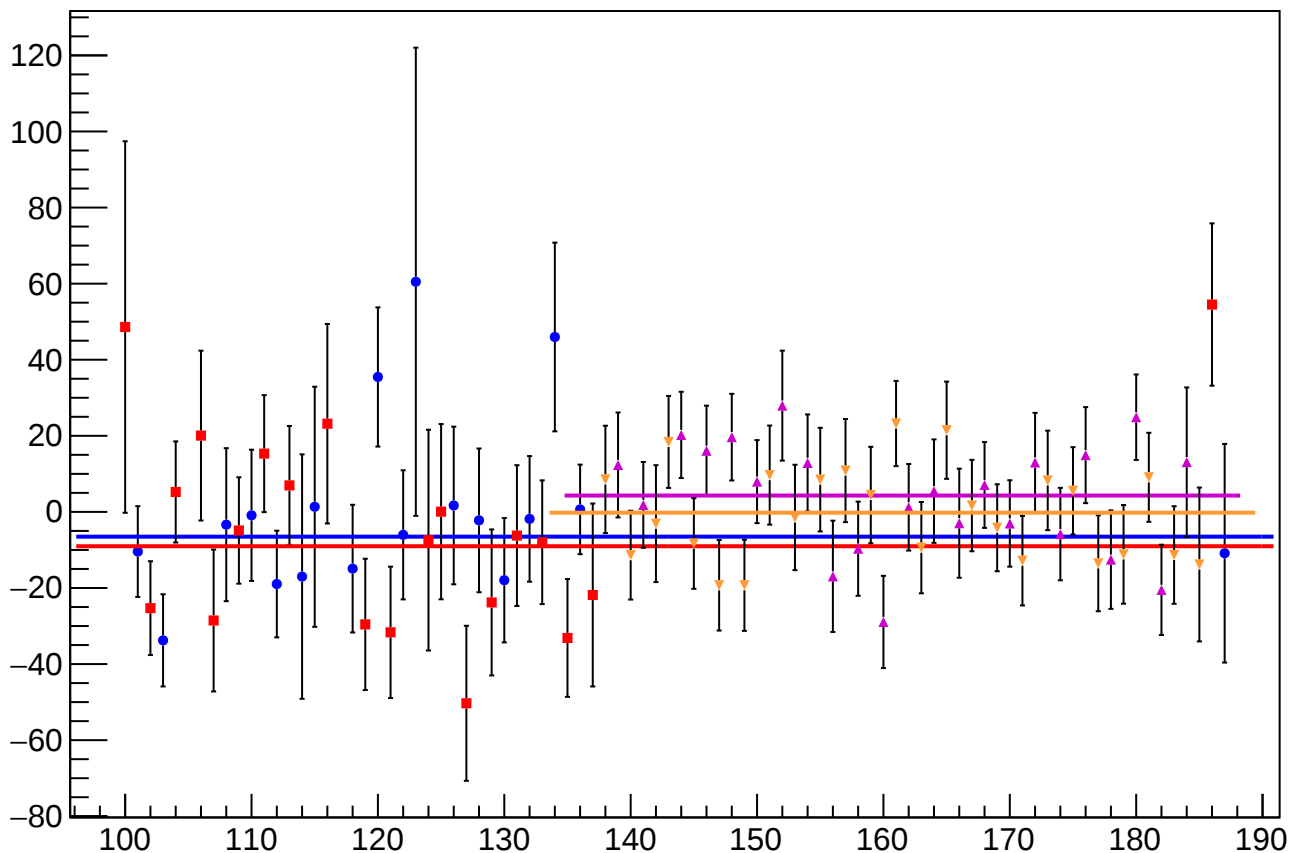
Left In: 178.277 $\pm$ 0.032 χ^2/NDF : 1628916.6/22

+ sign 196.778 $\pm$ 0.029 χ^2/NDF : 2846197.4/42

All: 186.259 $\pm$ 0.020 χ^2/NDF : 6502532.0/85

- sign 177.306 $\pm$ 0.027 χ^2/NDF : 3410878.1/42

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug



Right In: -6.509 ± 4.096 χ^2/NDF : 18.6/17

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: -9.023 ± 4.012 χ^2/NDF : 31.8/19

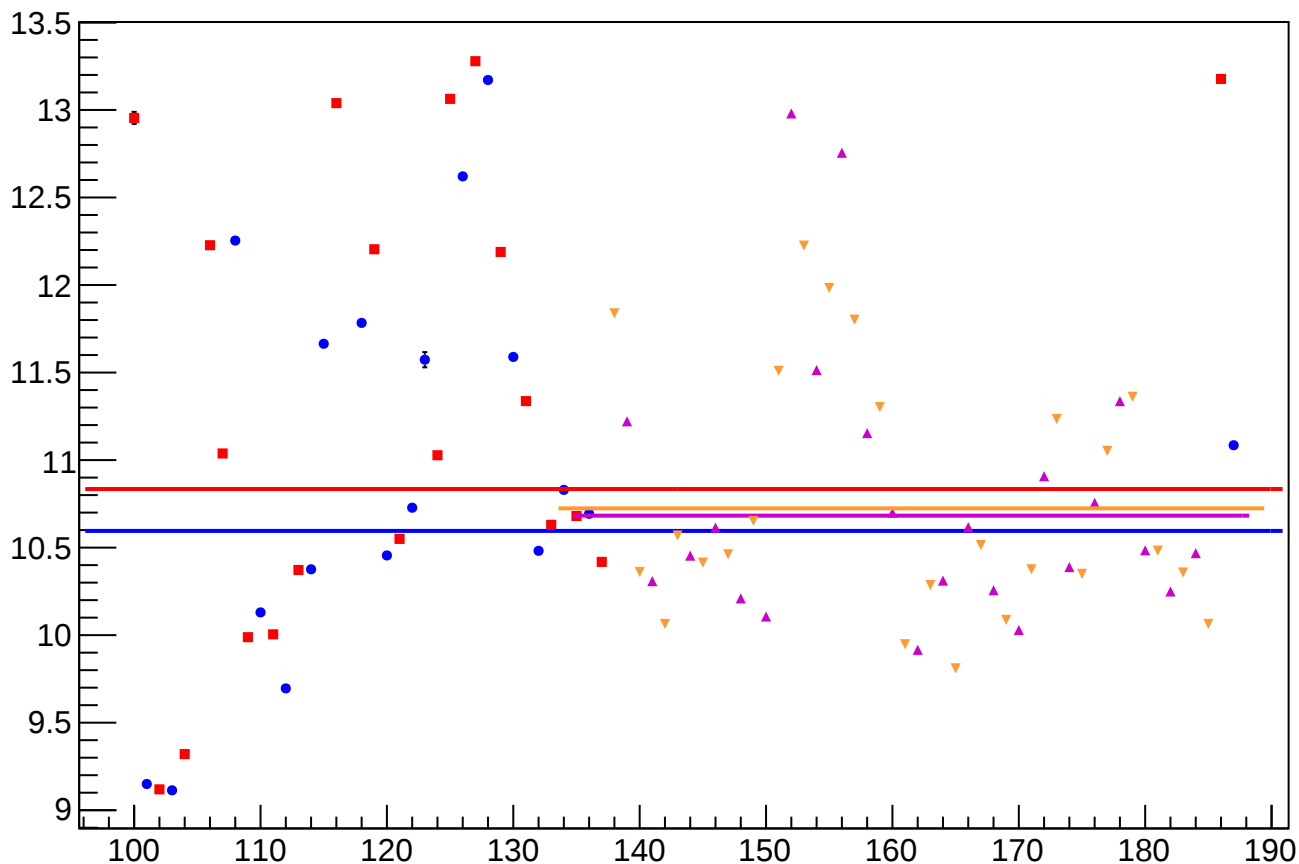
Left In: 4.298 ± 2.589 χ^2/NDF : 31.6/22

+ sign -1.944 ± 2.148 χ^2/NDF : 44.9/42

All: -0.796 ± 1.529 χ^2/NDF : 116.6/85

- sign 0.381 ± 2.175 χ^2/NDF : 71.2/42

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug



Right In: 10.595 $\pm$ 0.003 χ^2/NDF : 160405.9/17

Left Out: 10.724 $\pm$ 0.002 χ^2/NDF : 132558.9/24

Right Out: 10.835 $\pm$ 0.003 χ^2/NDF : 202889.4/19

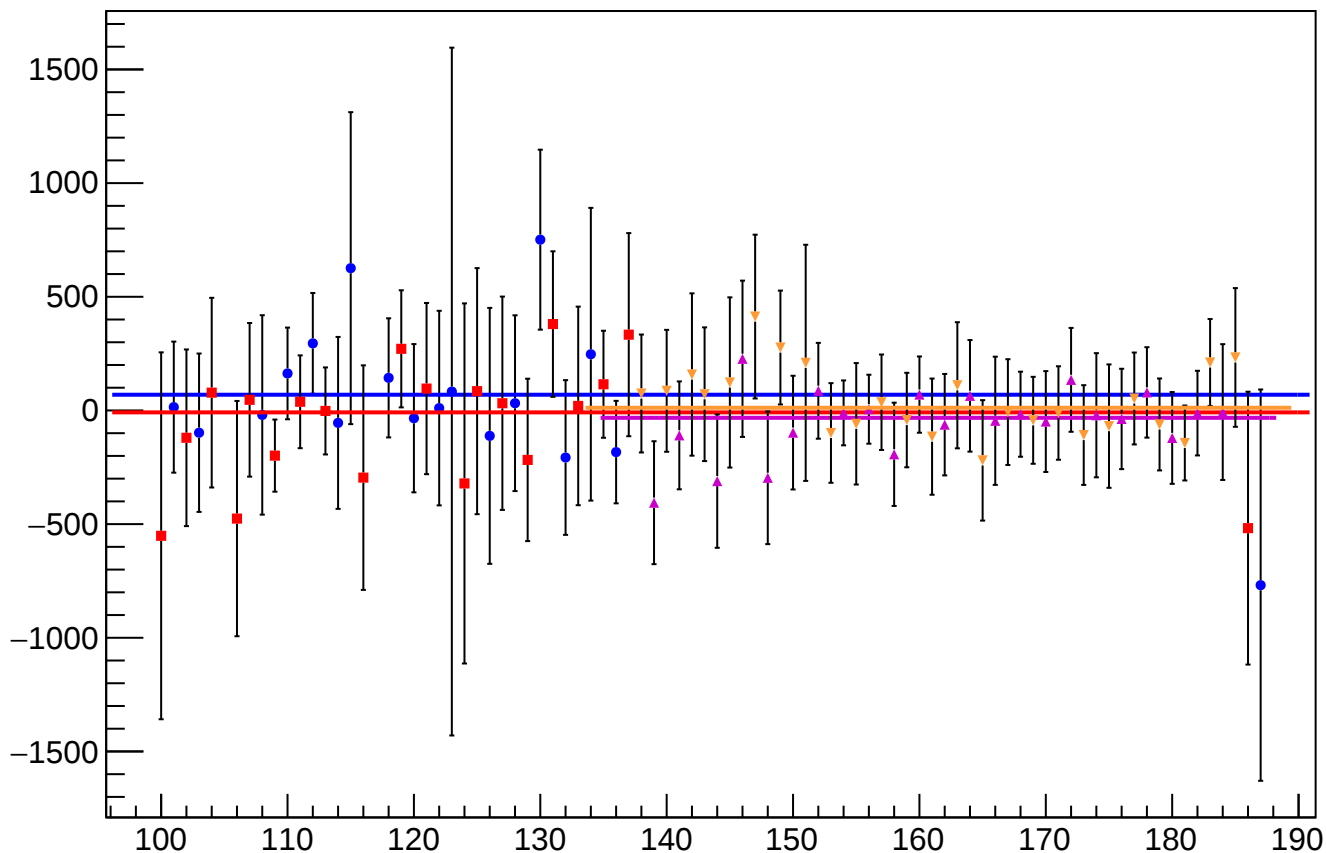
Left In: 10.683 $\pm$ 0.002 χ^2/NDF : 147835.6/22

+ sign 10.689 $\pm$ 0.002 χ^2/NDF : 294396.5/42

All: 10.708 $\pm$ 0.001 χ^2/NDF : 647467.2/85

- sign 10.727 $\pm$ 0.002 χ^2/NDF : 352752.8/42

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug



Right In: 69.165+/-79.626 χ^2/NDF : 8.5/17

Left Out: 11.891+/-48.022 χ^2/NDF : 7.6/24

Right Out: -8.456+/-70.378 χ^2/NDF : 8.1/19

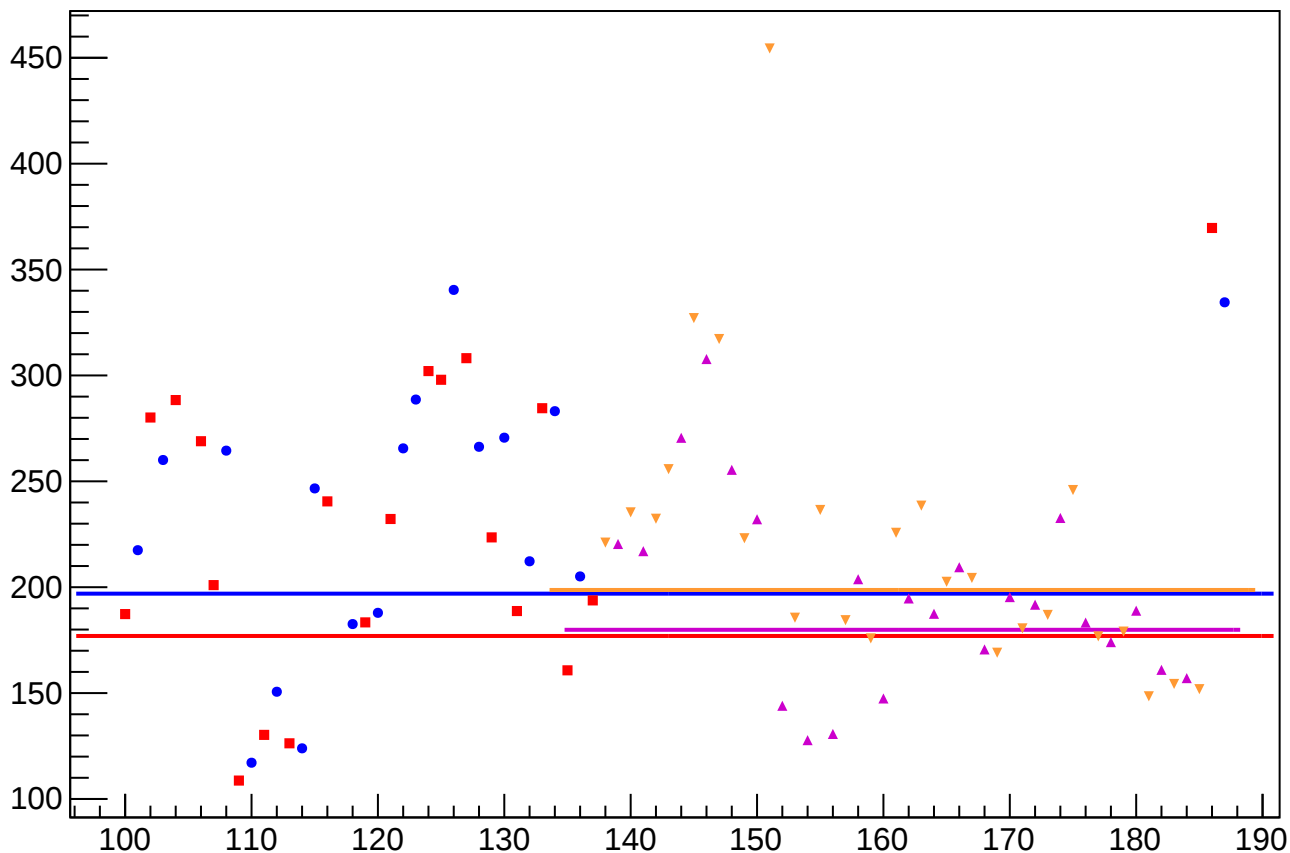
Left In: -32.413+/-45.155 χ^2/NDF : 6.9/22

+ sign 27.167+/-41.122 χ^2/NDF : 16.6/42

All: -1.199+/-27.911 χ^2/NDF : 32.5/85

- sign -25.427+/-38.005 χ^2/NDF : 15.1/42

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug



Right In: 196.953 $\pm$ 0.056 χ^2/NDF : 1032460.5/17

Left Out: 198.695 $\pm$ 0.034 χ^2/NDF : 1759311.9/24

Right Out: 176.972 $\pm$ 0.050 χ^2/NDF : 1732744.9/19

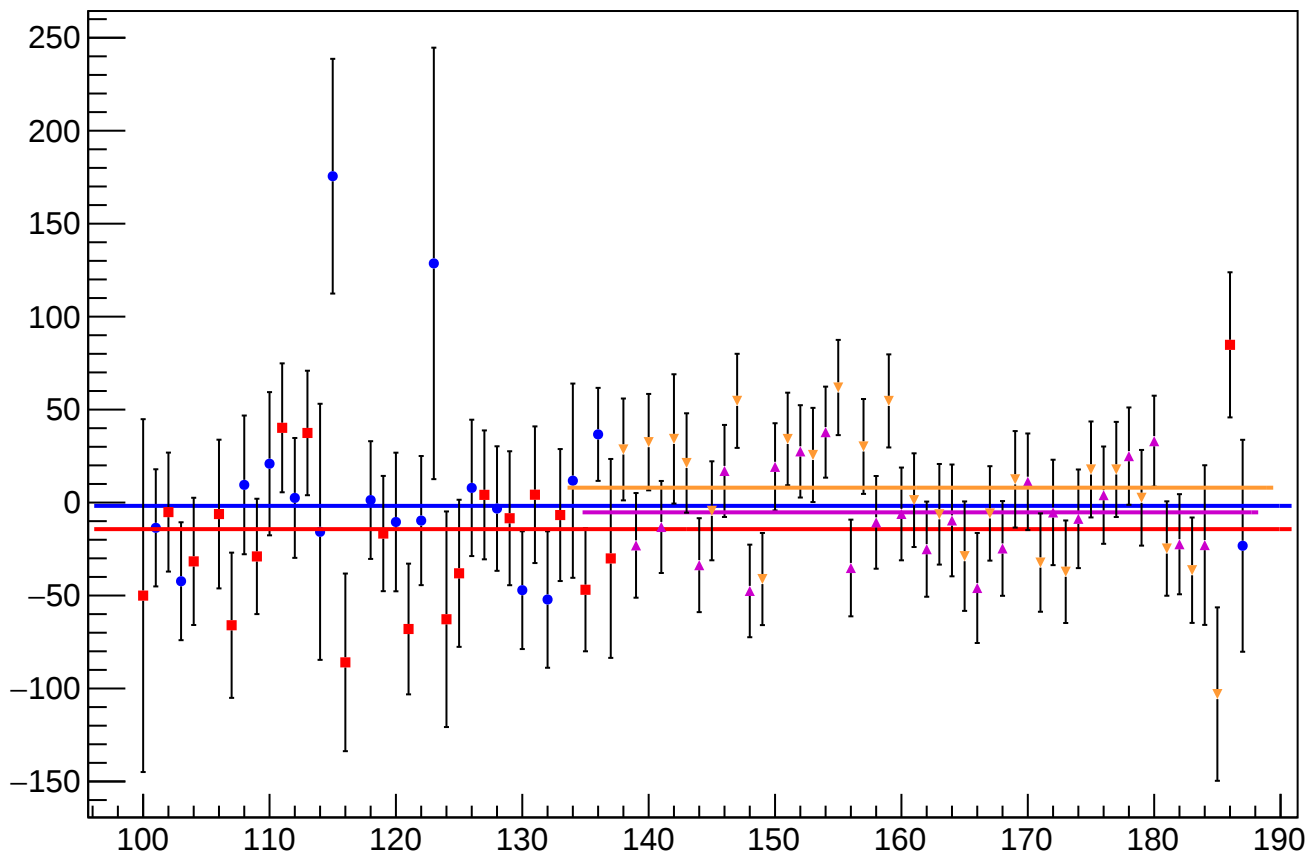
Left In: 179.886 $\pm$ 0.032 χ^2/NDF : 1580636.4/22

+ sign 198.230 $\pm$ 0.029 χ^2/NDF : 2792473.9/42

All: 187.879 $\pm$ 0.020 χ^2/NDF : 6343278.9/85

- sign 179.037 $\pm$ 0.027 χ^2/NDF : 3315810.1/42

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug



Right In: -1.777 $\pm$ 8.741 χ^2/NDF : 18.1/17

Left Out: 8.004 $\pm$ 5.334 χ^2/NDF : 37.4/24

Right Out: -14.289 $\pm$ 8.372 χ^2/NDF : 21.1/19

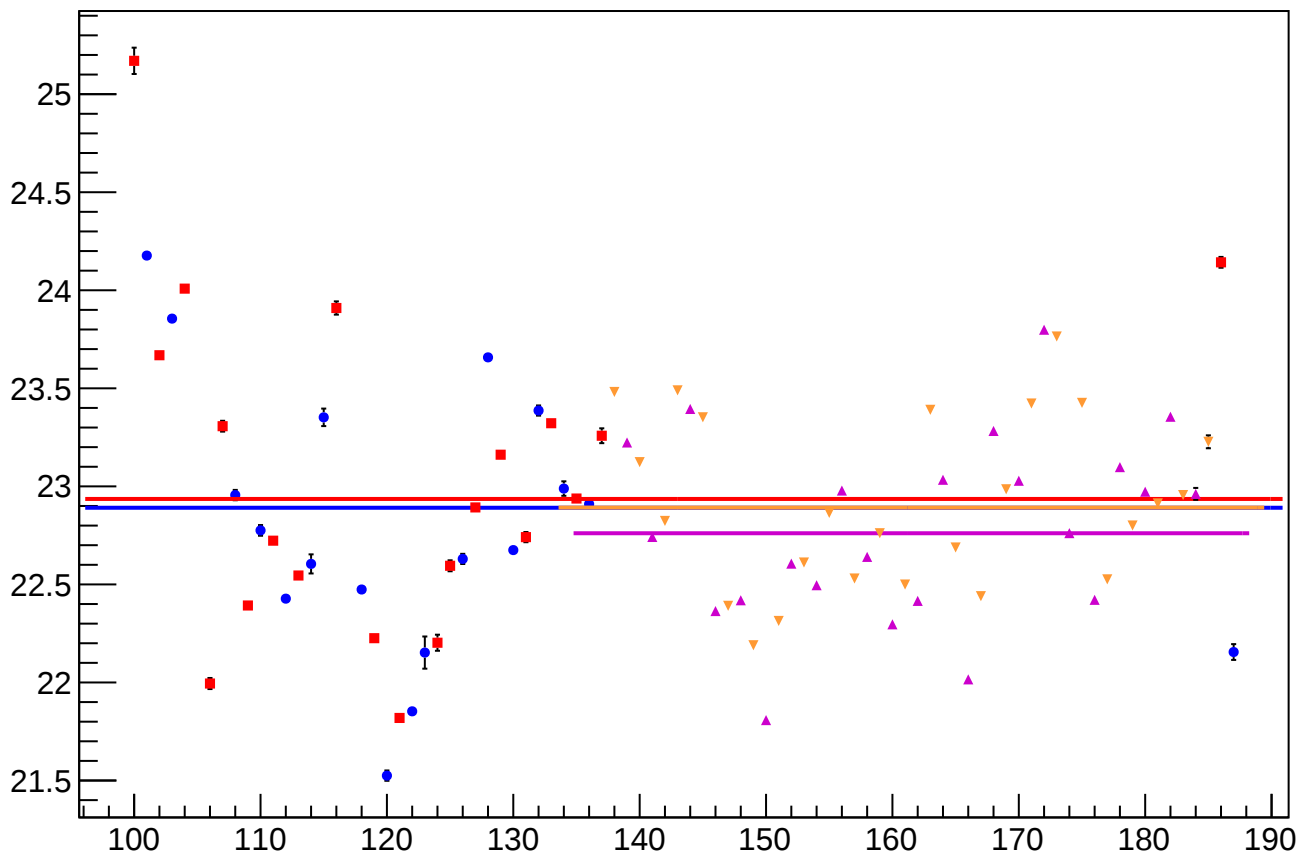
Left In: -5.261 $\pm$ 5.465 χ^2/NDF : 20.8/22

+ sign 5.350 $\pm$ 4.553 χ^2/NDF : 56.5/42

All: -1.271 $\pm$ 3.228 χ^2/NDF : 103.4/85

- sign -7.958 $\pm$ 4.576 χ^2/NDF : 42.7/42

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug



Right In: 22.891 $\pm$ 0.006 χ^2 /NDF: 12611.7/17

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.936 $\pm$ 0.006 χ^2 /NDF: 13098.5/19

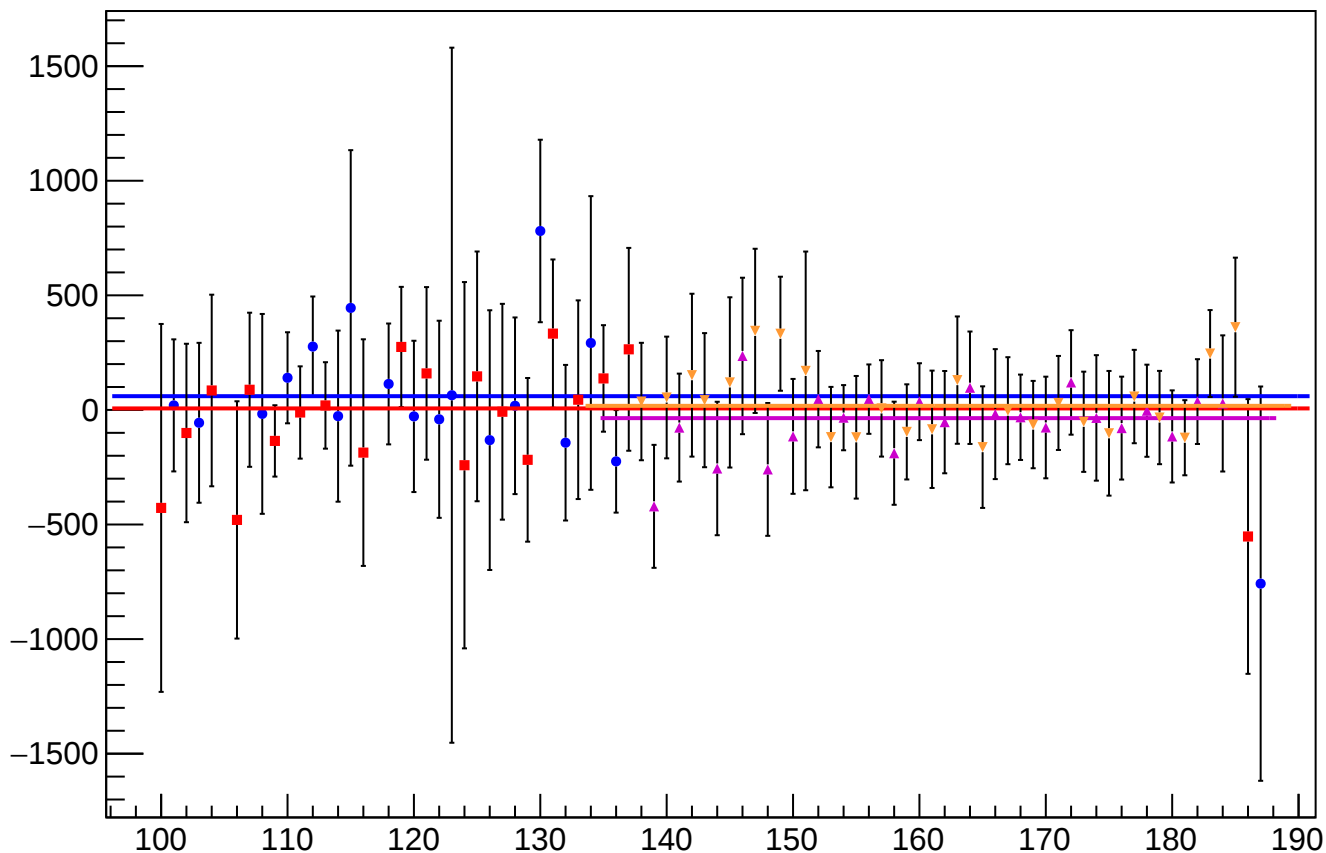
Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

+ sign 22.892 $\pm$ 0.003 χ^2 /NDF: 25607.3/42

All: 22.853 $\pm$ 0.002 χ^2 /NDF: 54163.3/85

- sign 22.813 $\pm$ 0.003 χ^2 /NDF: 28260.6/42

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug



Right In: 59.954 $\pm$ 79.286 χ^2/NDF : 8.3/17

Left Out: 17.777 $\pm$ 47.941 χ^2/NDF : 8.5/24

Right Out: 6.550 $\pm$ 69.887 χ^2/NDF : 6.7/19

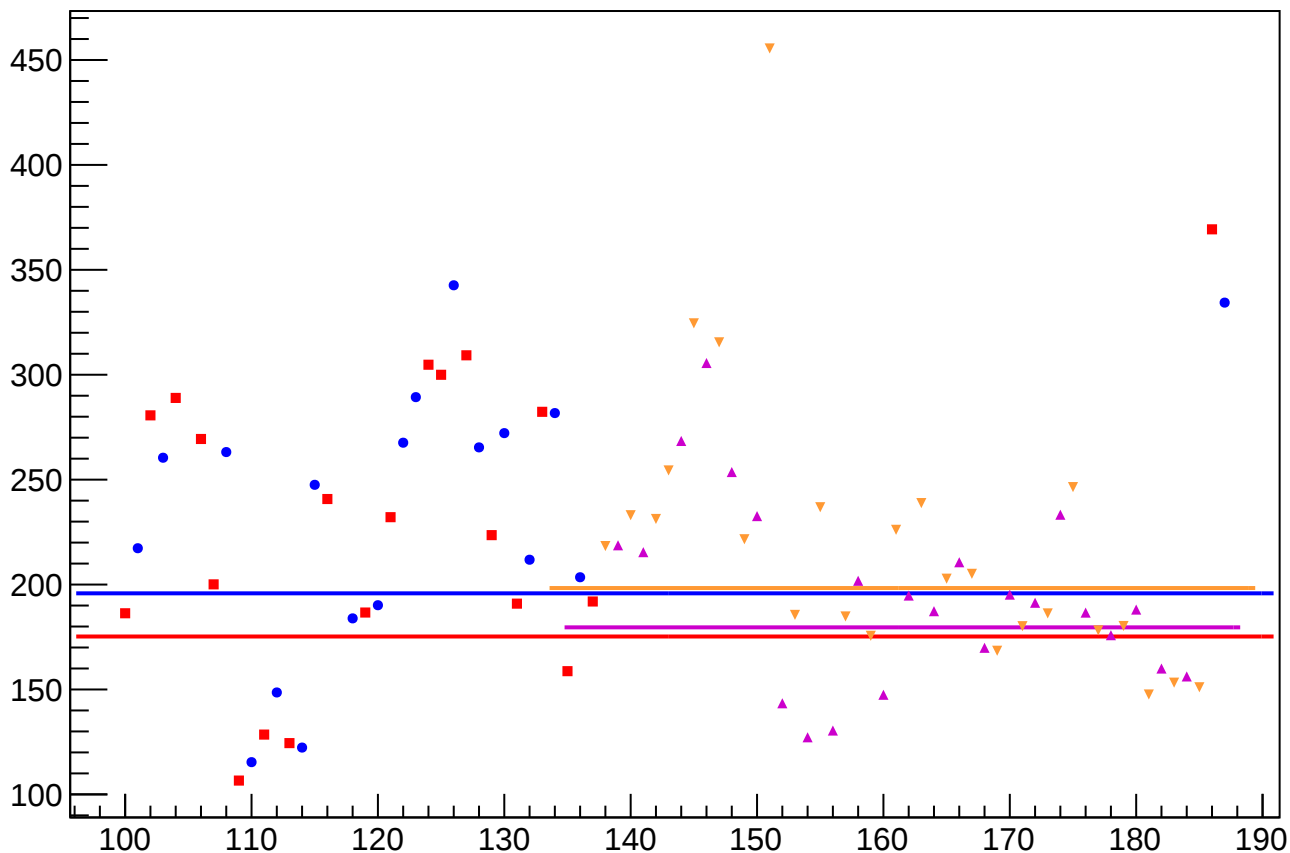
Left In: -35.879 $\pm$ 45.087 χ^2/NDF : 6.3/22

+ sign 29.069 $\pm$ 41.025 χ^2/NDF : 17.0/42

All: 0.746 $\pm$ 27.833 χ^2/NDF : 31.1/85

- sign -23.409 $\pm$ 37.887 χ^2/NDF : 13.2/42

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug



Right In: 195.820 $\pm$ 0.056 χ^2/NDF : 1073305.3/17

Left Out: 198.344 $\pm$ 0.034 χ^2/NDF : 1757450.6/24

Right Out: 175.246 $\pm$ 0.049 χ^2/NDF : 1803778.0/19

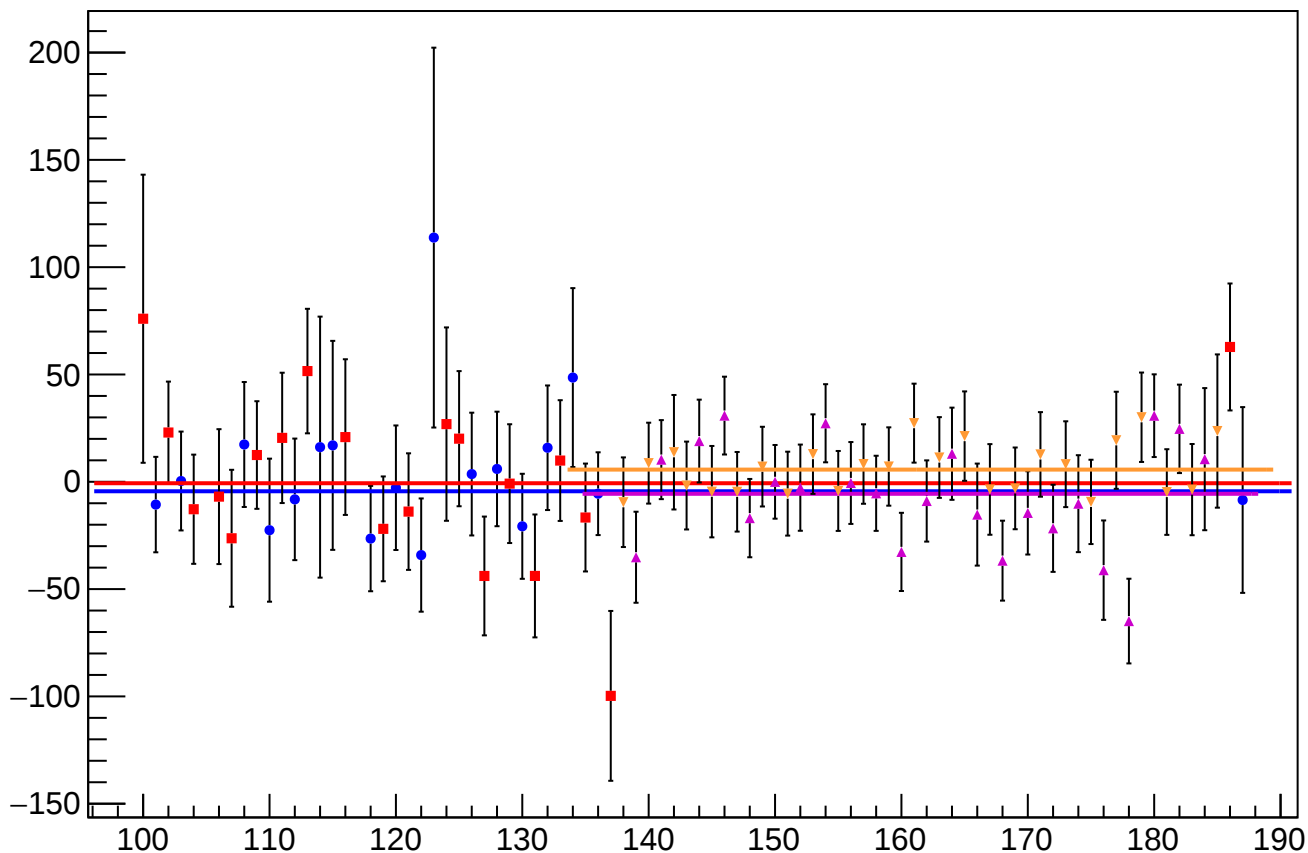
Left In: 179.605 $\pm$ 0.032 χ^2/NDF : 1575744.0/22

+ sign 197.668 $\pm$ 0.029 χ^2/NDF : 2832239.6/42

All: 187.228 $\pm$ 0.020 χ^2/NDF : 6457247.5/85

- sign 178.324 $\pm$ 0.027 χ^2/NDF : 3385017.1/42

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug



Right In: -4.417 ± 6.801 χ^2/NDF : 8.0/17

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: -0.673 ± 6.572 χ^2/NDF : 25.5/19

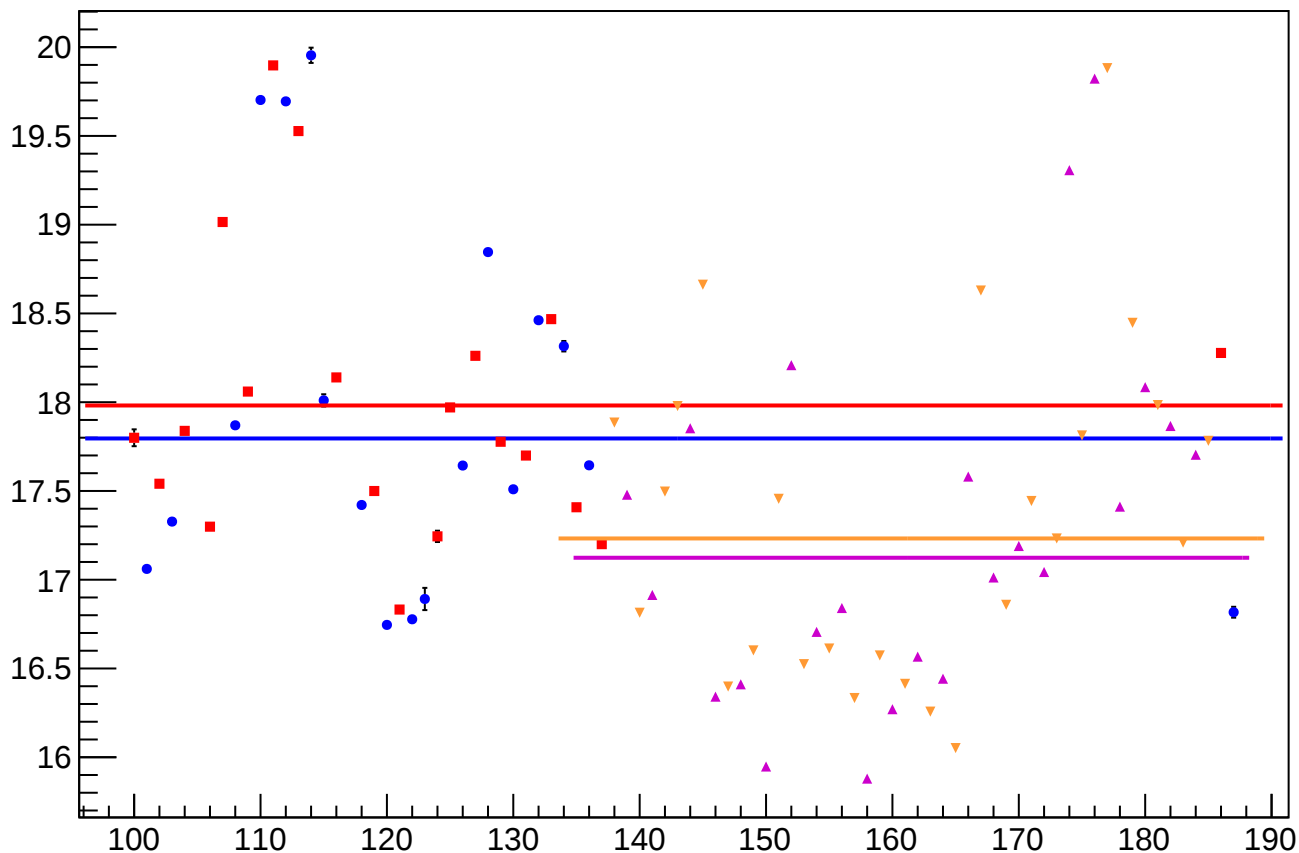
Left In: -5.595 ± 4.121 χ^2/NDF : 36.4/22

+ sign 3.062 ± 3.463 χ^2/NDF : 17.3/42

All: -0.542 ± 2.459 χ^2/NDF : 81.8/85

- sign -4.206 ± 3.492 χ^2/NDF : 62.3/42

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug



Right In: 17.796 $\pm$ 0.005 χ^2 /NDF: 33332.6/17

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF: 98701.0/24

Right Out: 17.982 $\pm$ 0.005 χ^2 /NDF: 25530.9/19

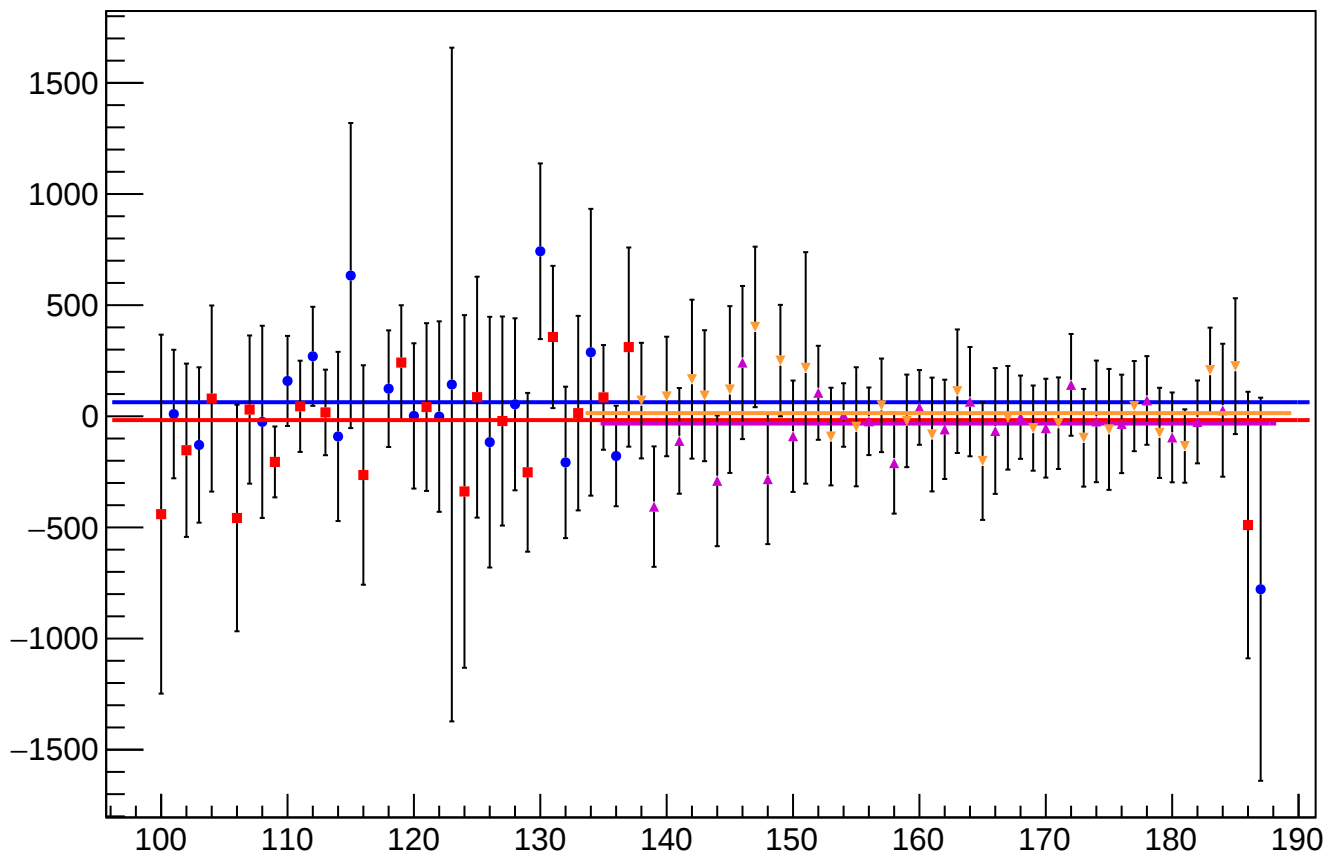
Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

+ sign 17.378 $\pm$ 0.002 χ^2 /NDF: 142196.1/42

All: 17.372 $\pm$ 0.002 χ^2 /NDF: 292944.0/85

- sign 17.366 $\pm$ 0.002 χ^2 /NDF: 150734.7/42

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug



Right In: 63.323 ± 79.823 χ^2/NDF : 8.3/17

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -17.182 ± 70.532 χ^2/NDF : 7.4/19

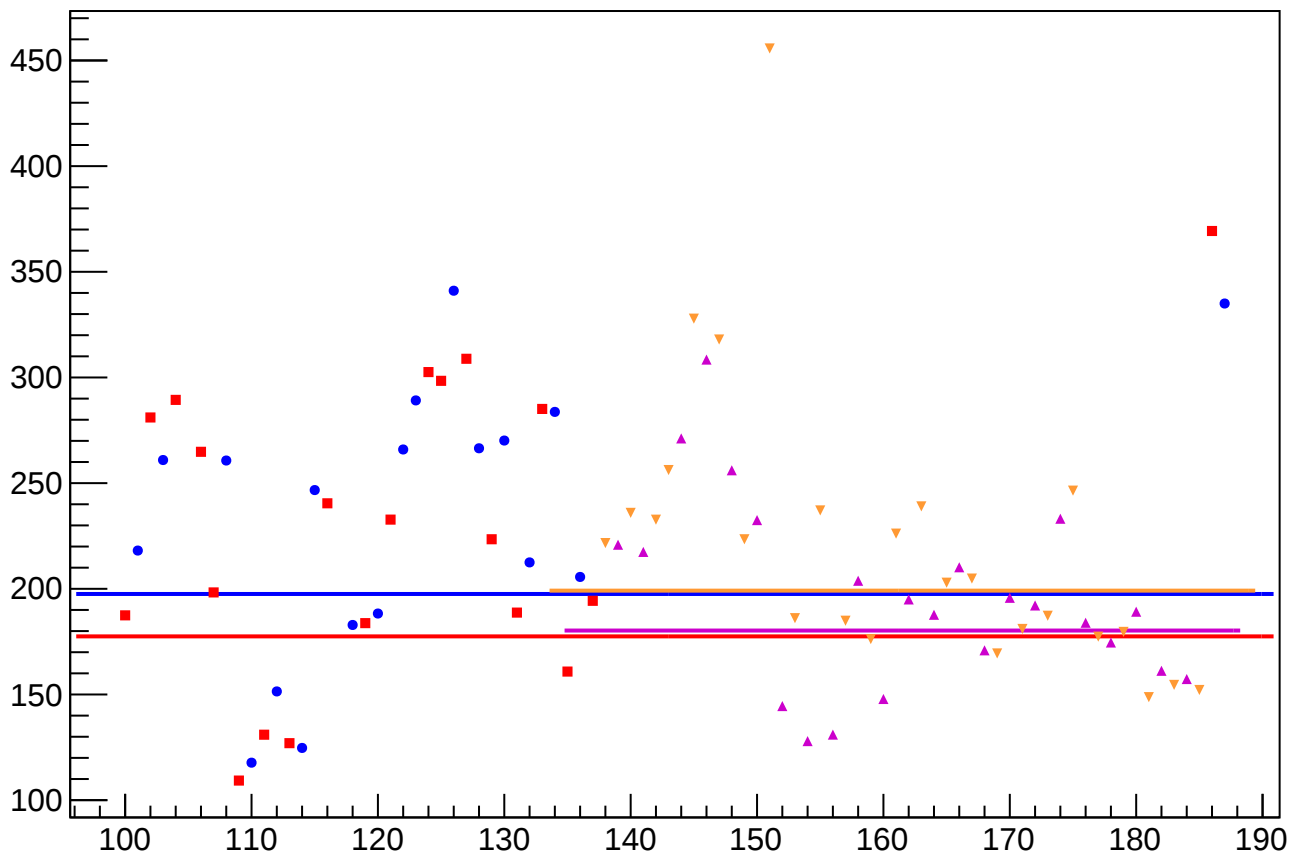
Left In: -32.571 ± 45.248 χ^2/NDF : 6.7/22

+ sign 27.416 ± 41.217 χ^2/NDF : 15.6/42

All: -2.523 ± 27.972 χ^2/NDF : 30.6/85

- sign -28.084 ± 38.084 χ^2/NDF : 14.1/42

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug



Right In: 197.558 $\pm$ 0.056 χ^2/NDF : 1017262.4/17

Left Out: 199.136 $\pm$ 0.034 χ^2/NDF : 1760298.1/24

Right Out: 177.492 $\pm$ 0.050 χ^2/NDF : 1713633.3/19

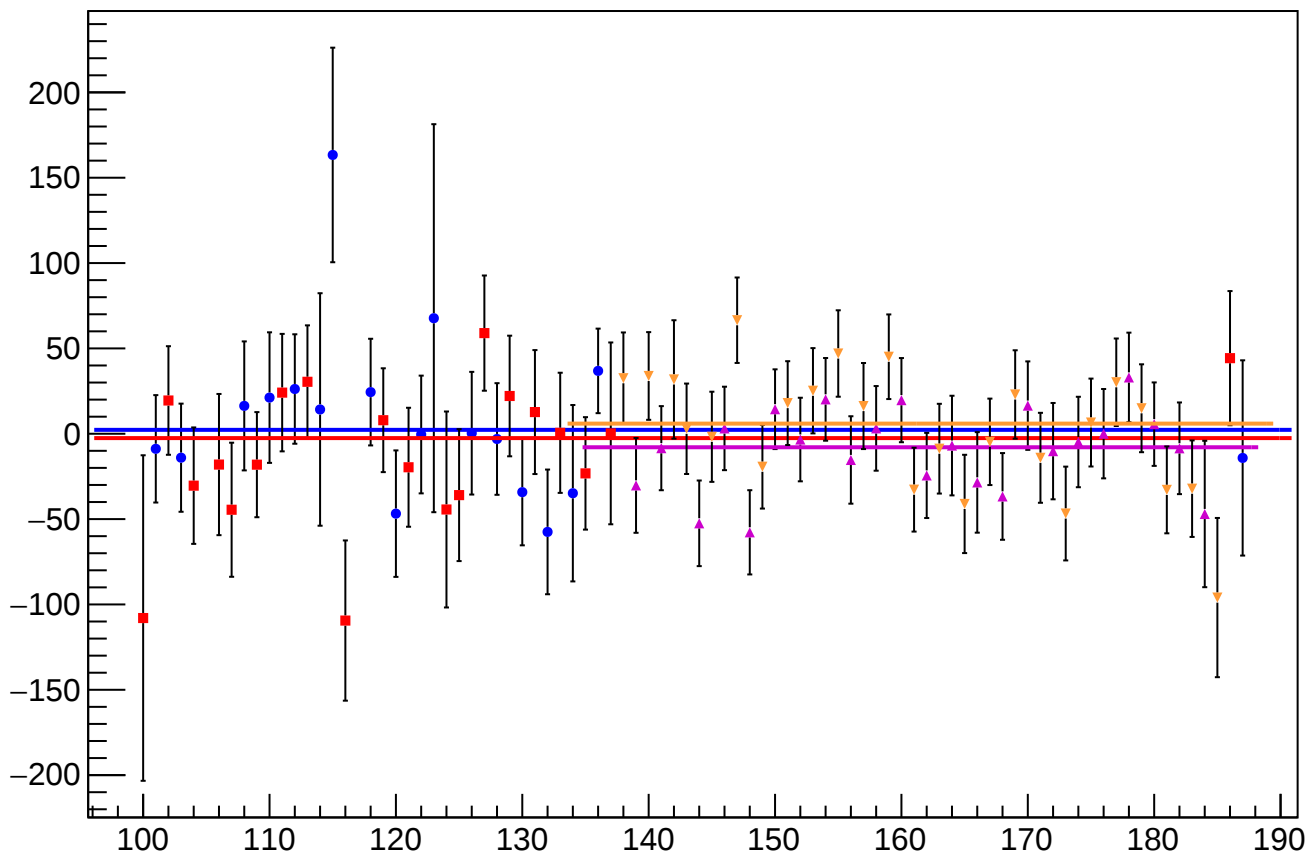
Left In: 180.256 $\pm$ 0.032 χ^2/NDF : 1580553.5/22

+ sign 198.715 $\pm$ 0.029 χ^2/NDF : 2778133.5/42

All: 188.323 $\pm$ 0.020 χ^2/NDF : 6310192.9/85

- sign 179.450 $\pm$ 0.027 χ^2/NDF : 3296363.6/42

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug



Right In: 2.289 ± 8.670 $\chi^2/\text{NDF}: 17.1/17$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: -2.547 ± 8.304 $\chi^2/\text{NDF}: 18.1/19$

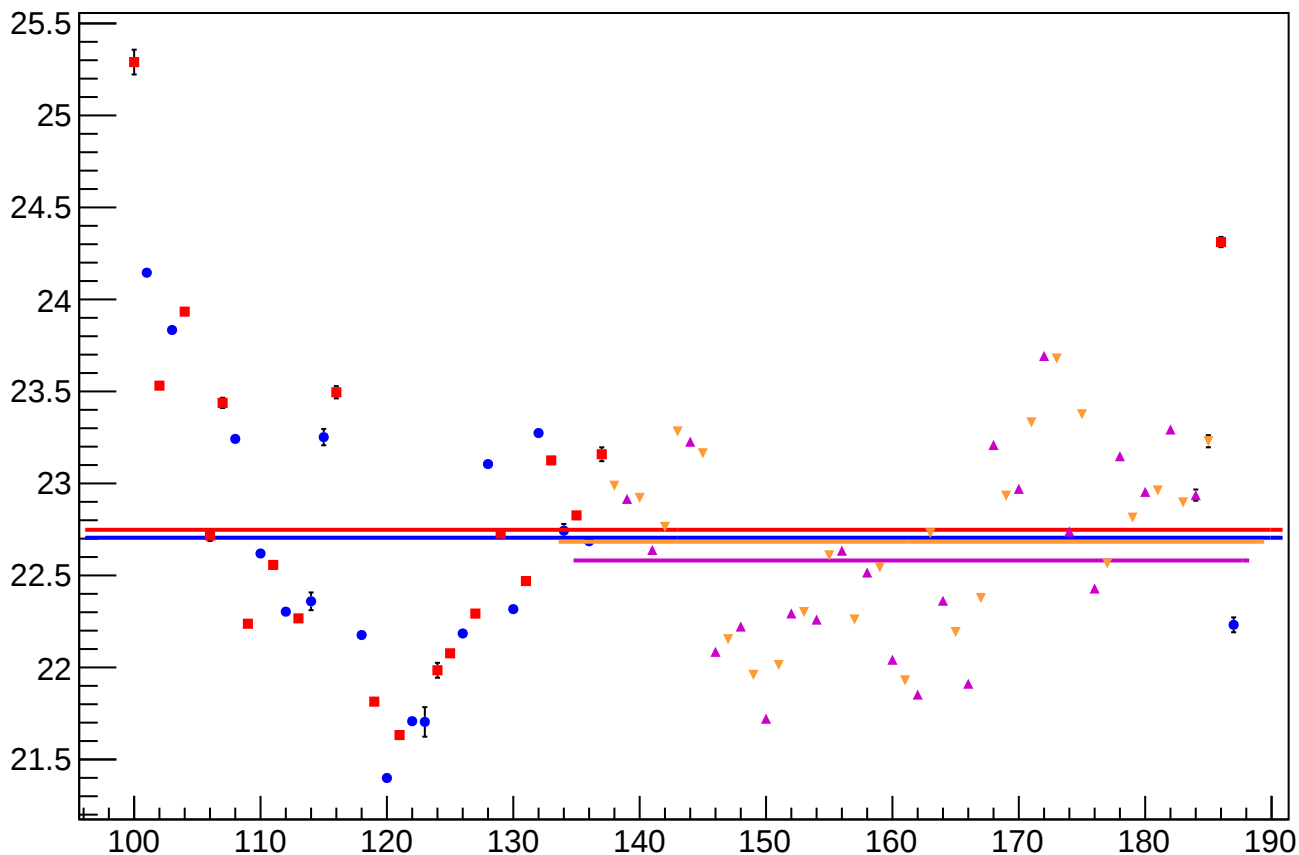
Left In: -7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

+ sign 4.949 ± 4.513 $\chi^2/\text{NDF}: 53.4/42$

All: -0.647 ± 3.200 $\chi^2/\text{NDF}: 93.6/85$

- sign -6.311 ± 4.540 $\chi^2/\text{NDF}: 37.1/42$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug



Right In: 22.705 $\pm$ 0.006 χ^2 /NDF: 14198.3/17

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.748 $\pm$ 0.006 χ^2 /NDF: 16111.3/19

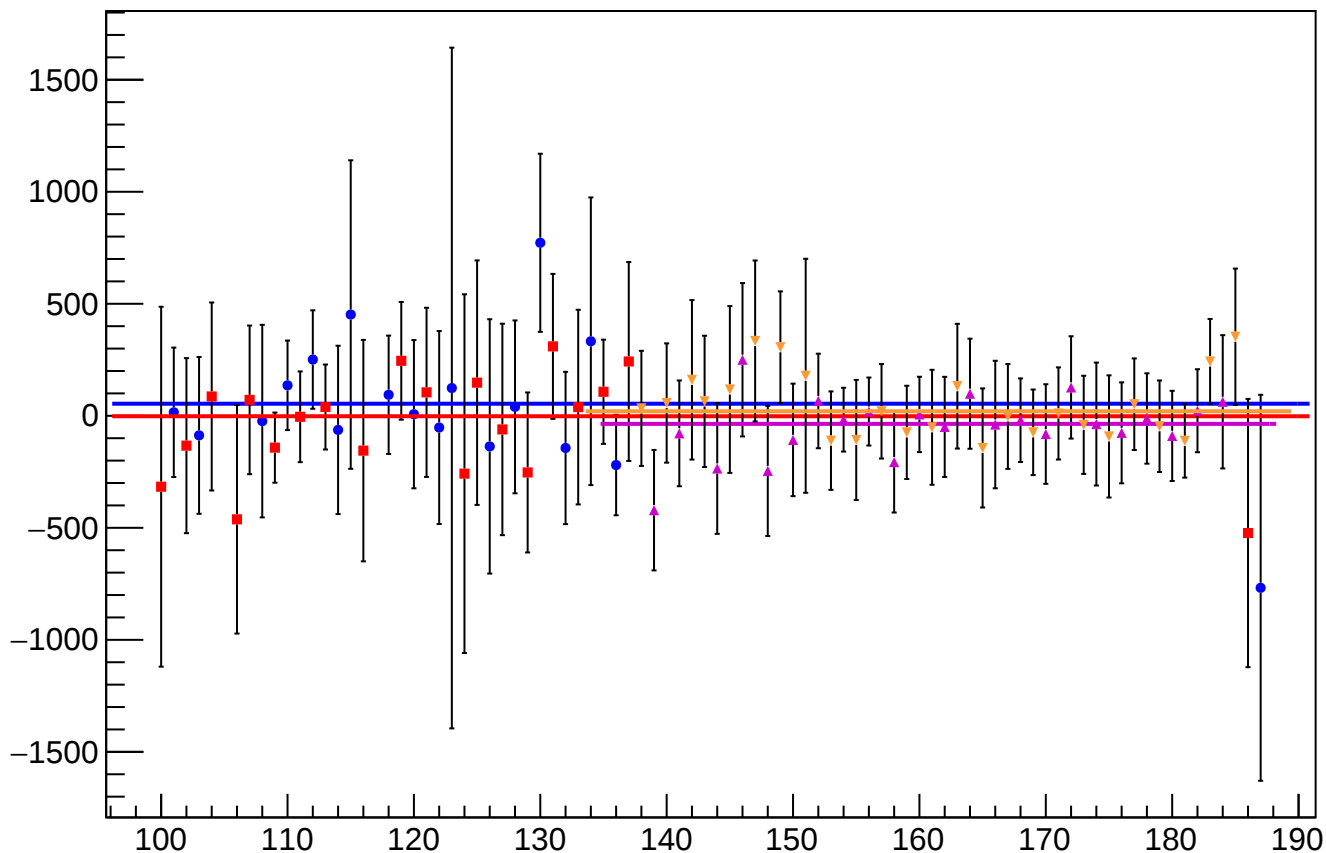
Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

+ sign 22.689 $\pm$ 0.003 χ^2 /NDF: 30527.7/42

All: 22.660 $\pm$ 0.002 χ^2 /NDF: 65272.6/85

- sign 22.631 $\pm$ 0.003 χ^2 /NDF: 34581.0/42

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug



Right In: 53.921 $\pm$ 79.486 χ^2 /NDF: 8.0/17

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF: 7.7/24

Right Out: -1.998 $\pm$ 70.045 χ^2 /NDF: 6.0/19

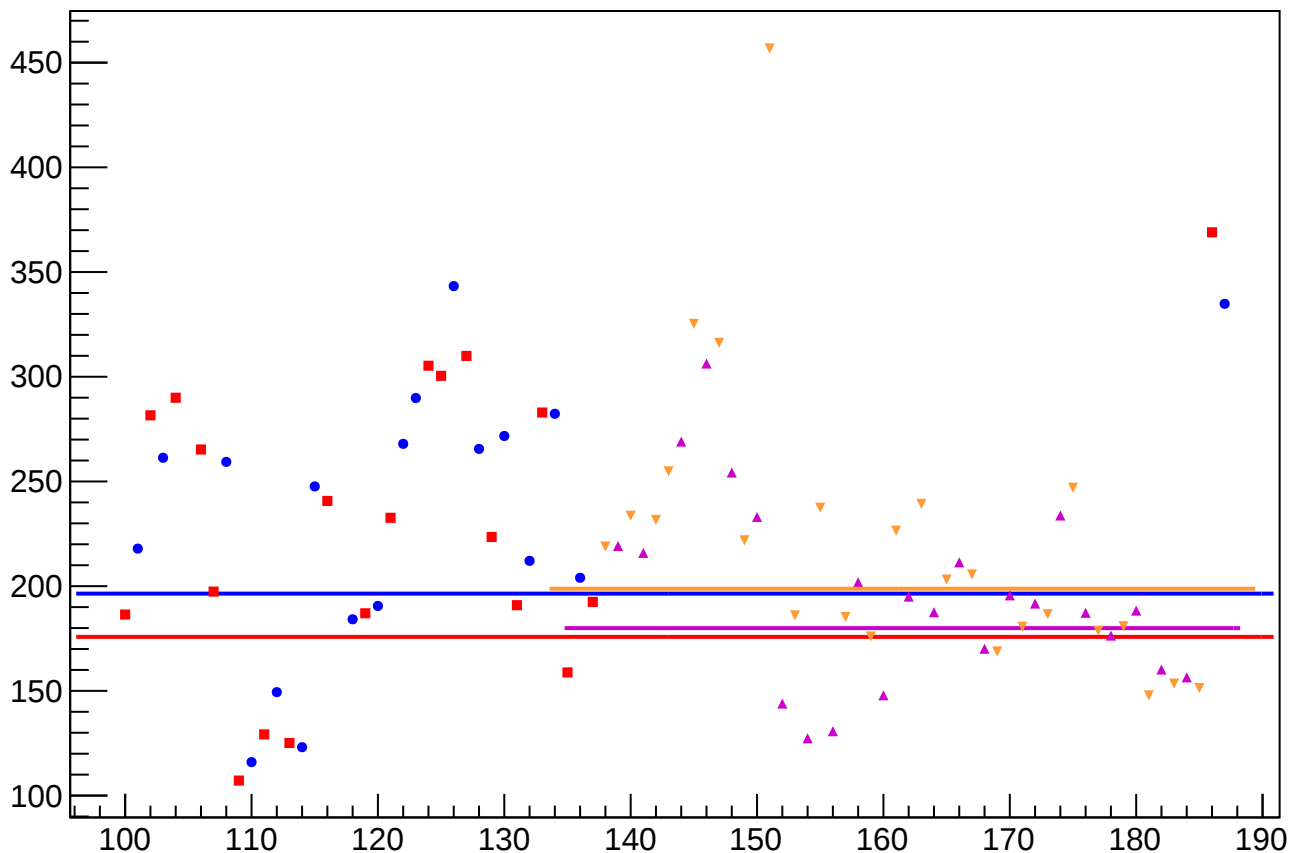
Left In: -35.996 $\pm$ 45.180 χ^2 /NDF: 6.1/22

+ sign 29.302 $\pm$ 41.120 χ^2 /NDF: 15.9/42

All: -0.554 $\pm$ 27.895 χ^2 /NDF: 29.0/85

- sign -26.007 $\pm$ 37.967 χ^2 /NDF: 12.2/42

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug



Right In: 196.437 $\pm$ 0.056 χ^2 /NDF: 1057397.0/17

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 175.781 $\pm$ 0.050 χ^2 /NDF: 1783748.8/19

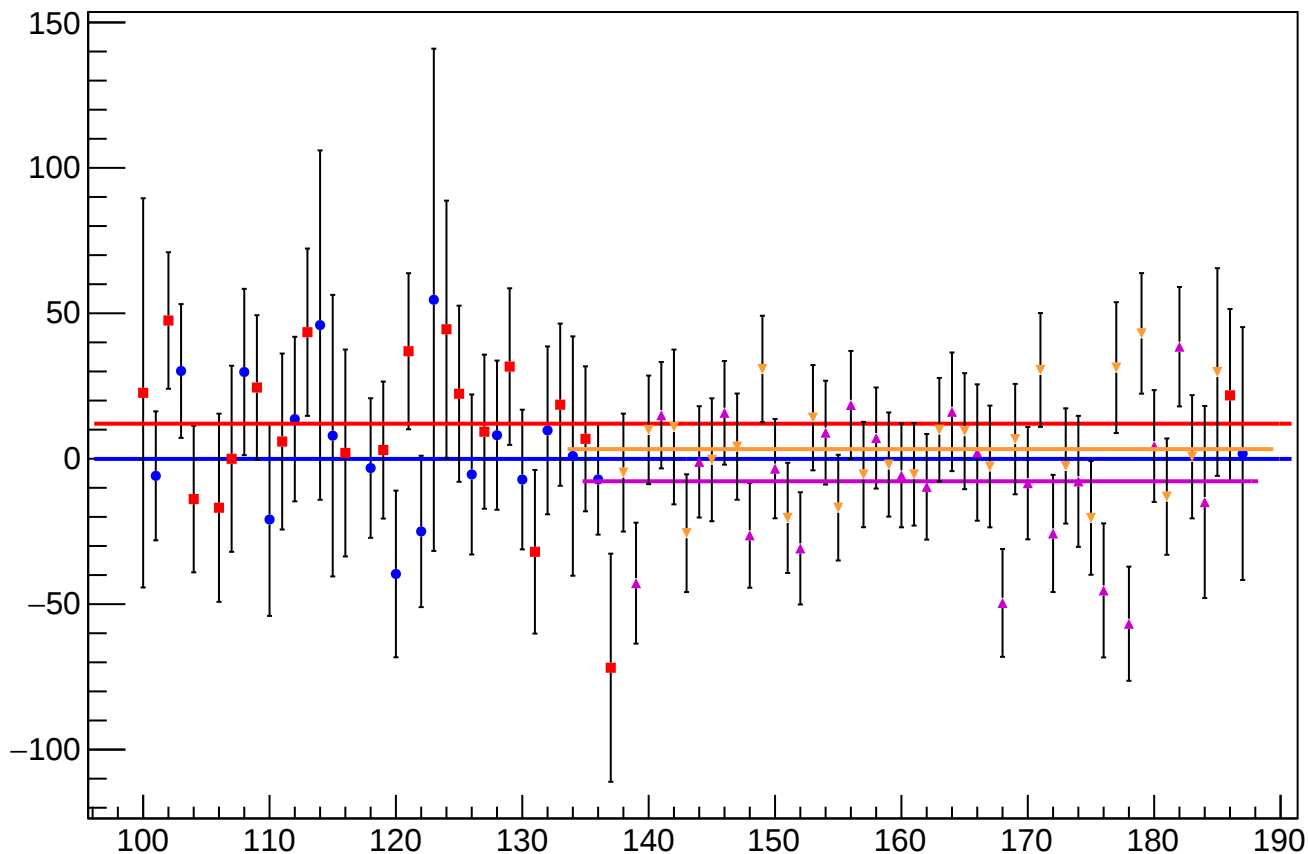
Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

+ sign 198.156 $\pm$ 0.029 χ^2 /NDF: 2817156.7/42

All: 187.676 $\pm$ 0.020 χ^2 /NDF: 6422531.1/85

- sign 178.741 $\pm$ 0.027 χ^2 /NDF: 3364694.2/42

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug



Right In: -0.066 ± 6.705 χ^2/NDF : 7.9/17

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 12.047 ± 6.482 χ^2/NDF : 15.3/19

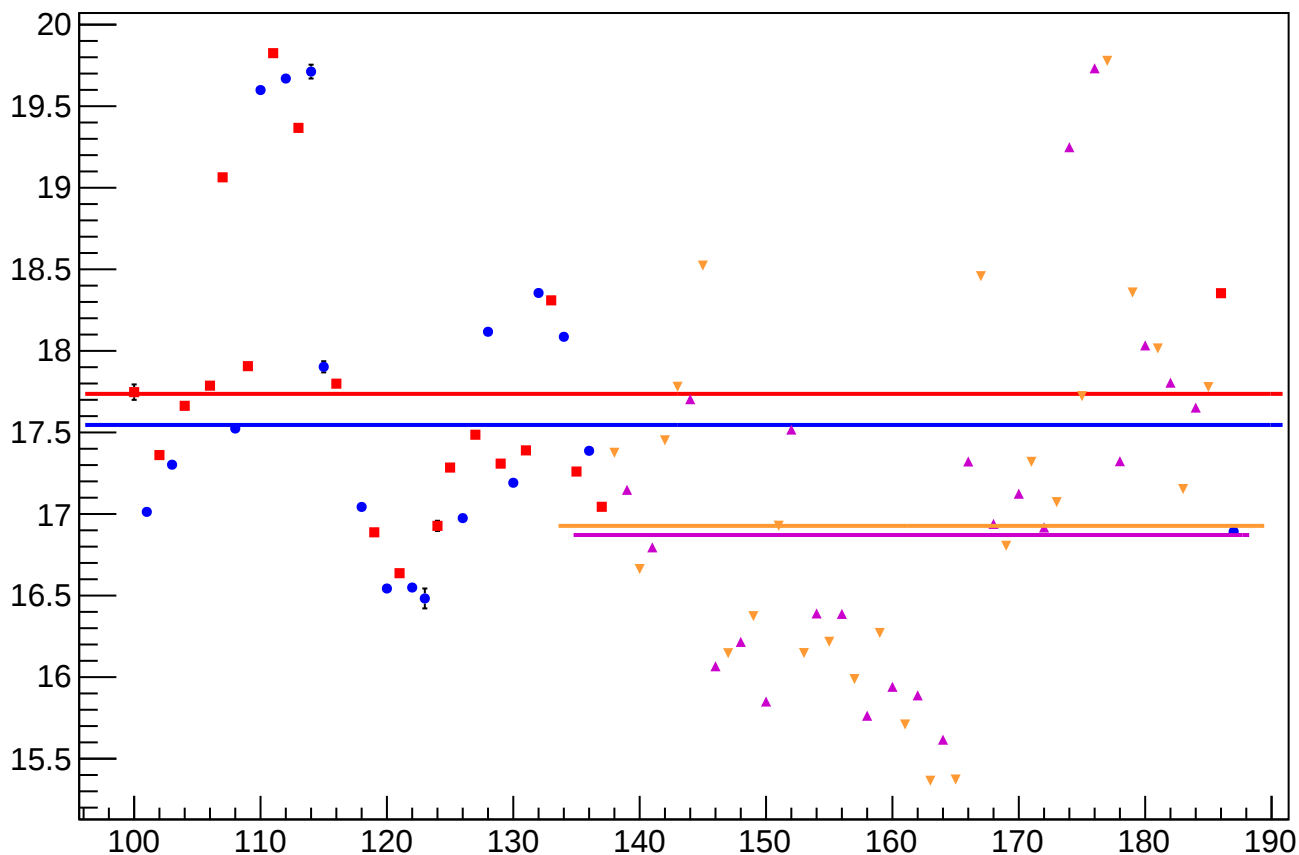
Left In: -7.756 ± 4.061 χ^2/NDF : 34.3/22

+ sign 2.437 ± 3.406 χ^2/NDF : 26.8/42

All: 0.155 ± 2.421 χ^2/NDF : 84.0/85

- sign -2.174 ± 3.441 χ^2/NDF : 56.3/42

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug



Right In: 17.546+/-0.005 χ^2/NDF : 34401.0/17

Left Out: 16.927+/-0.003 χ^2/NDF : 138533.2/24

Right Out: 17.737+/-0.005 χ^2/NDF : 31158.4/19

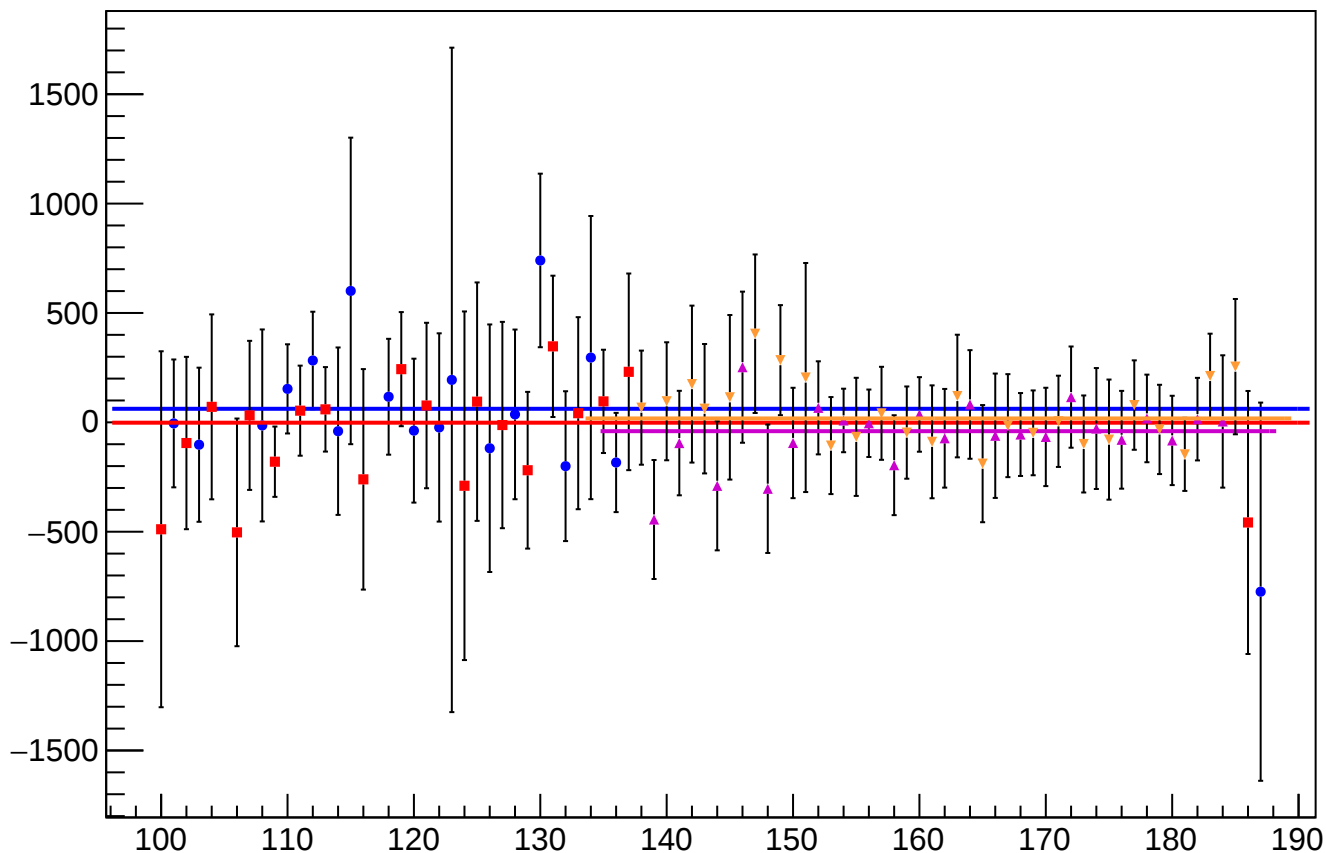
Left In: 16.871+/-0.003 χ^2/NDF : 117993.8/22

+ sign 17.087+/-0.002 χ^2/NDF : 185570.5/42

All: 17.101+/-0.002 χ^2/NDF : 360382.7/85

- sign 17.115+/-0.002 χ^2/NDF : 174744.2/42

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug



Right In: 61.943 $\pm$ 80.285 χ^2 /NDF: 8.2/17

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF: 7.5/24

Right Out: -1.608 $\pm$ 71.020 χ^2 /NDF: 6.7/19

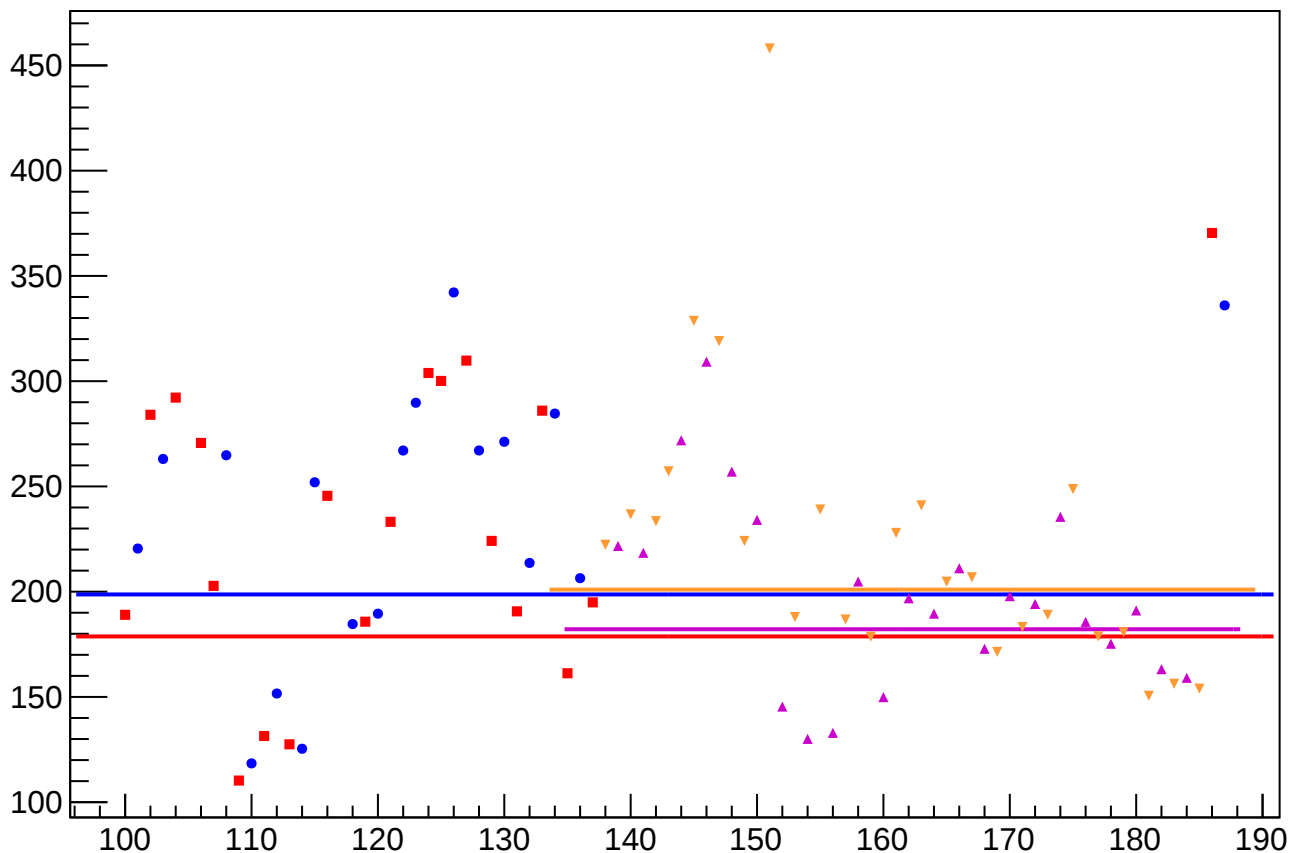
Left In: -40.355 $\pm$ 45.689 χ^2 /NDF: 6.6/22

+ sign 29.640 $\pm$ 41.543 χ^2 /NDF: 15.9/42

All: -1.970 $\pm$ 28.208 χ^2 /NDF: 30.5/85

- sign -29.013 $\pm$ 38.424 χ^2 /NDF: 13.5/42

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 198.692 $\pm$ 0.057 χ^2 /NDF: 1021779.6/17

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF: 1727291.4/24

Right Out: 178.729 $\pm$ 0.050 χ^2 /NDF: 1720996.8/19

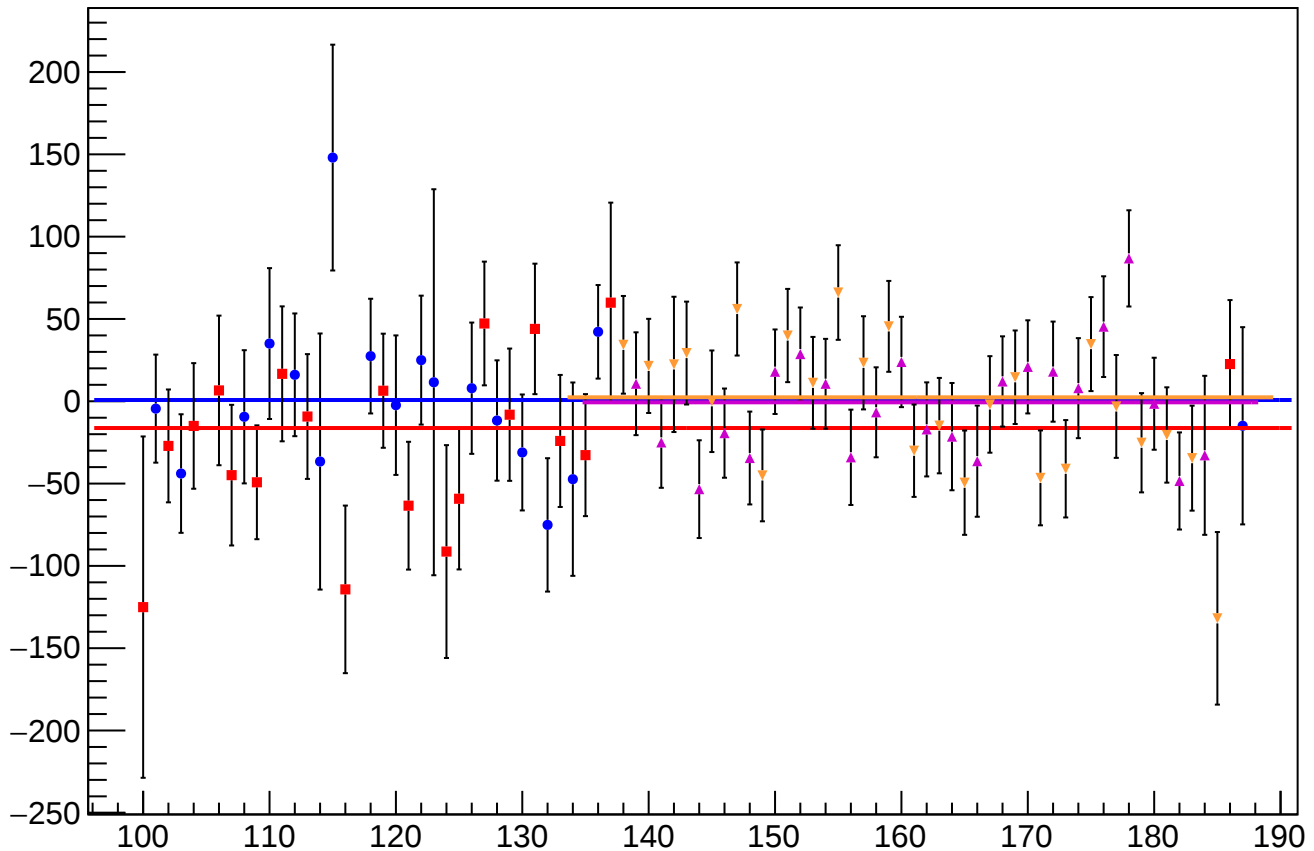
Left In: 182.158 $\pm$ 0.032 χ^2 /NDF: 1535922.8/22

+ sign 200.371 $\pm$ 0.029 χ^2 /NDF: 2750265.5/42

All: 190.015 $\pm$ 0.020 χ^2 /NDF: 6241127.0/85

- sign 181.154 $\pm$ 0.027 χ^2 /NDF: 3260217.5/42

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 0.766 ± 9.718 $\chi^2/\text{NDF}: 15.5/17$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: -16.252 ± 9.244 $\chi^2/\text{NDF}: 19.5/19$

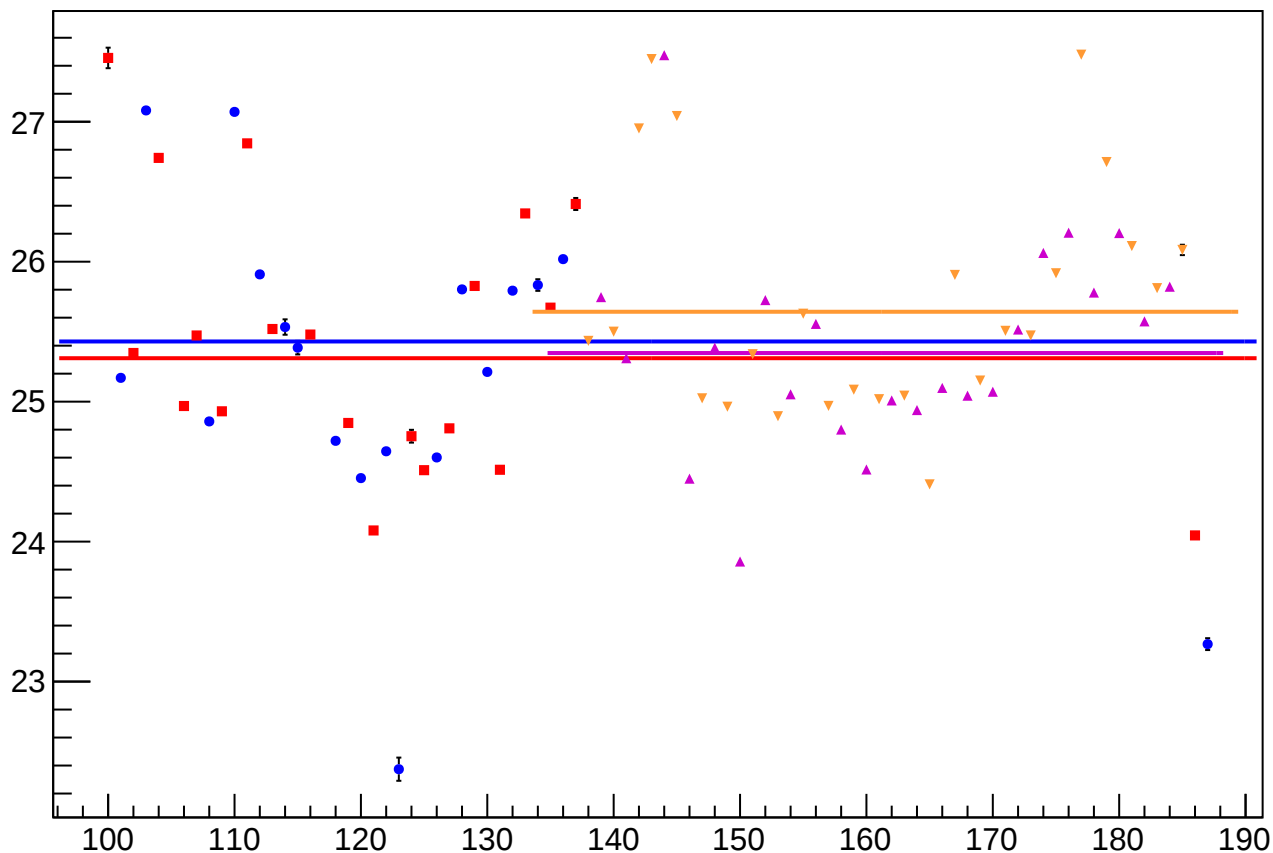
Left In: -0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

+ sign 1.944 ± 5.093 $\chi^2/\text{NDF}: 54.7/42$

All: -1.716 ± 3.599 $\chi^2/\text{NDF}: 104.5/85$

- sign -5.367 ± 5.086 $\chi^2/\text{NDF}: 48.8/42$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 25.430 $\pm$ 0.007 χ^2 /NDF: 16543.9/17

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 25.310 $\pm$ 0.007 χ^2 /NDF: 15949.1/19

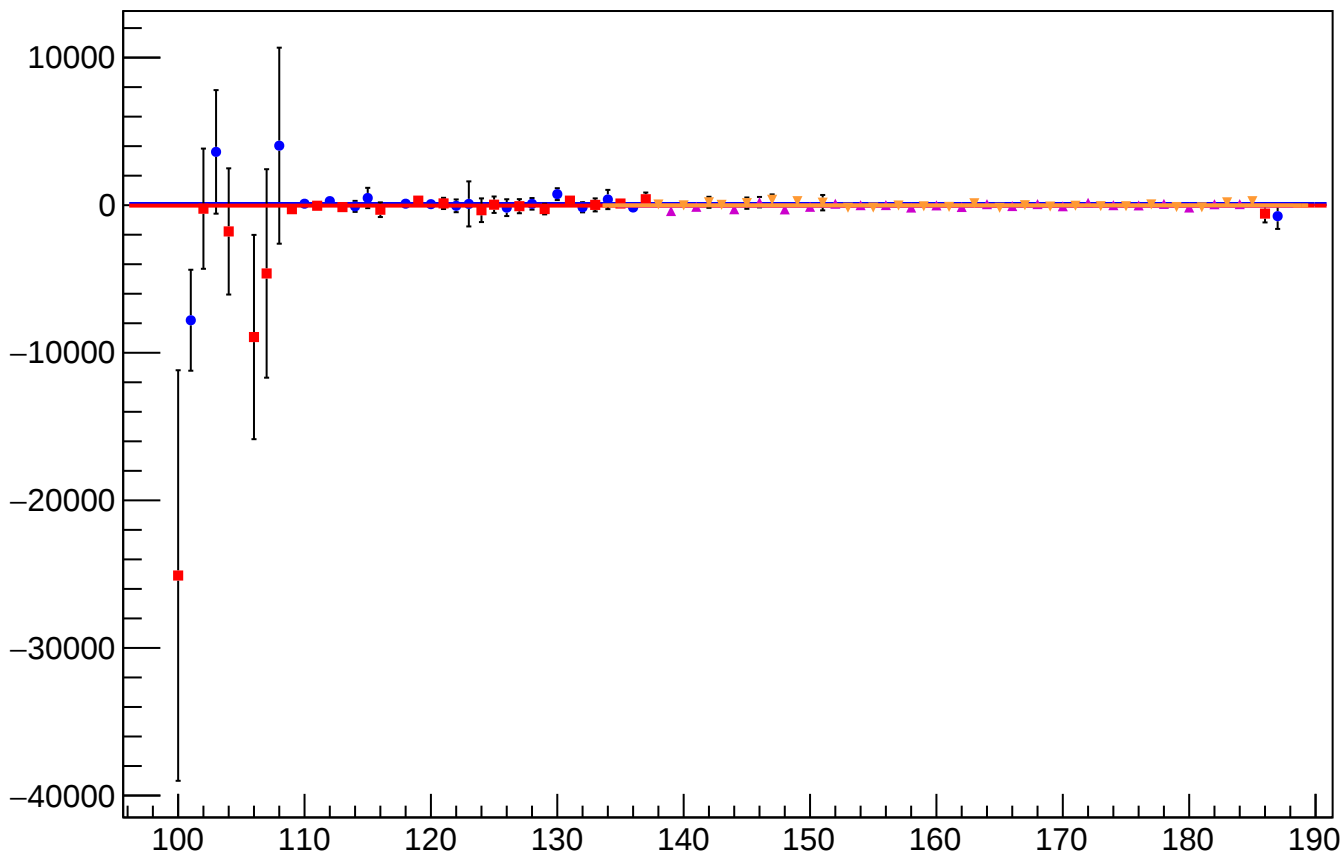
Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

+ sign 25.584 $\pm$ 0.004 χ^2 /NDF: 52038.8/42

All: 25.460 $\pm$ 0.003 χ^2 /NDF: 99769.9/85

- sign 25.336 $\pm$ 0.004 χ^2 /NDF: 45361.0/42

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug



Right In: 80.739+/-87.470 χ^2/NDF : 13.4/17

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: -28.738+/-80.194 χ^2/NDF : 12.8/19

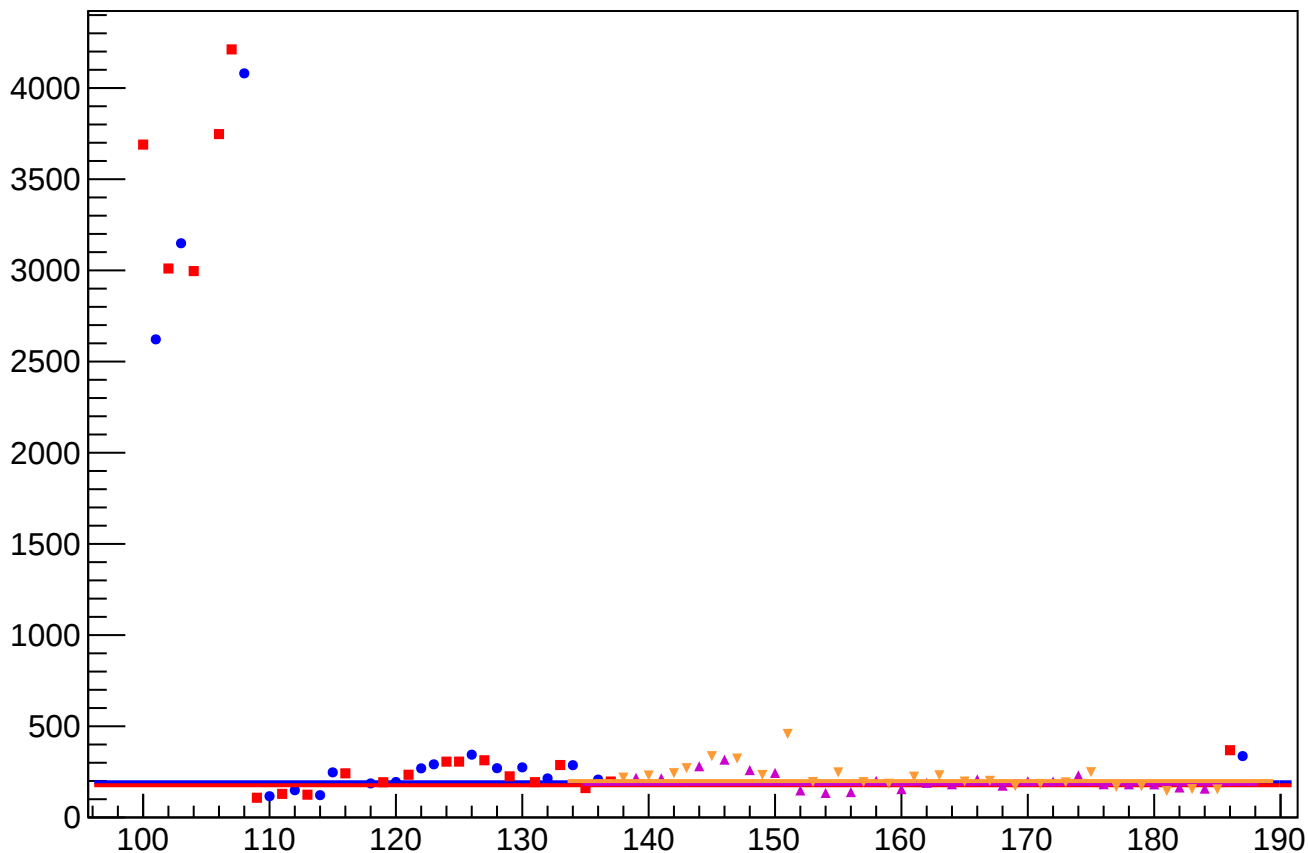
Left In: -27.098+/-45.999 χ^2/NDF : 7.2/22

+ sign 10.080+/-42.257 χ^2/NDF : 22.2/42

All: -9.789+/-29.011 χ^2/NDF : 42.7/85

- sign -27.504+/-39.901 χ^2/NDF : 20.0/42

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug



Right In: 192.904 $\pm$ 0.062 χ^2 /NDF: 3629147.6/17

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 176.580 $\pm$ 0.057 χ^2 /NDF: 4411445.5/19

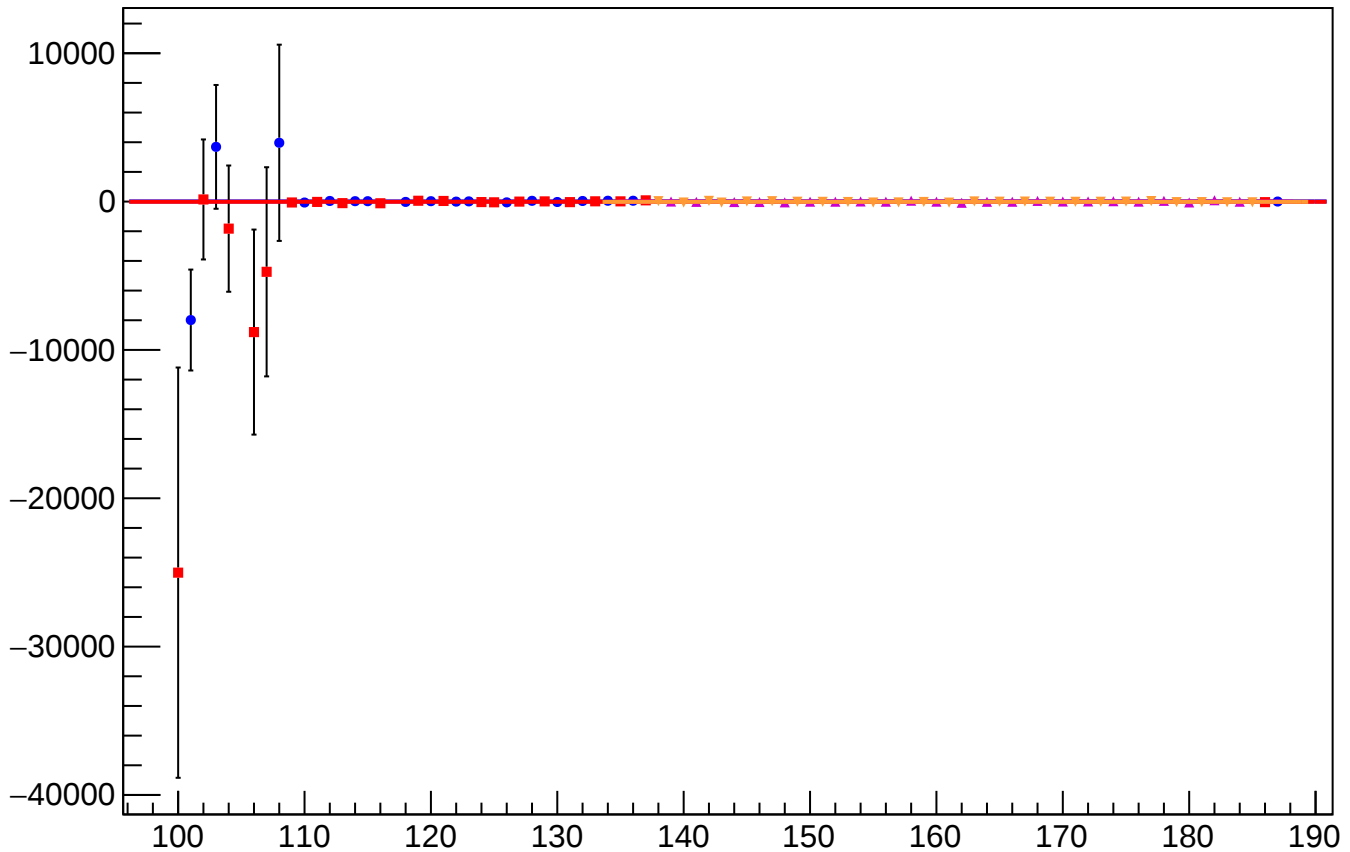
Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

+ sign 197.913 $\pm$ 0.030 χ^2 /NDF: 5515553.0/42

All: 189.509 $\pm$ 0.021 χ^2 /NDF: 11501710.2/85

- sign 182.016 $\pm$ 0.028 χ^2 /NDF: 5836530.3/42

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug



Right In: 11.240 $\pm$ 12.069 χ^2 /NDF: 18.3/17

Left Out: -18.118 $\pm$ 6.704 χ^2 /NDF: 21.7/24

Right Out: -13.271 $\pm$ 11.938 χ^2 /NDF: 24.1/19

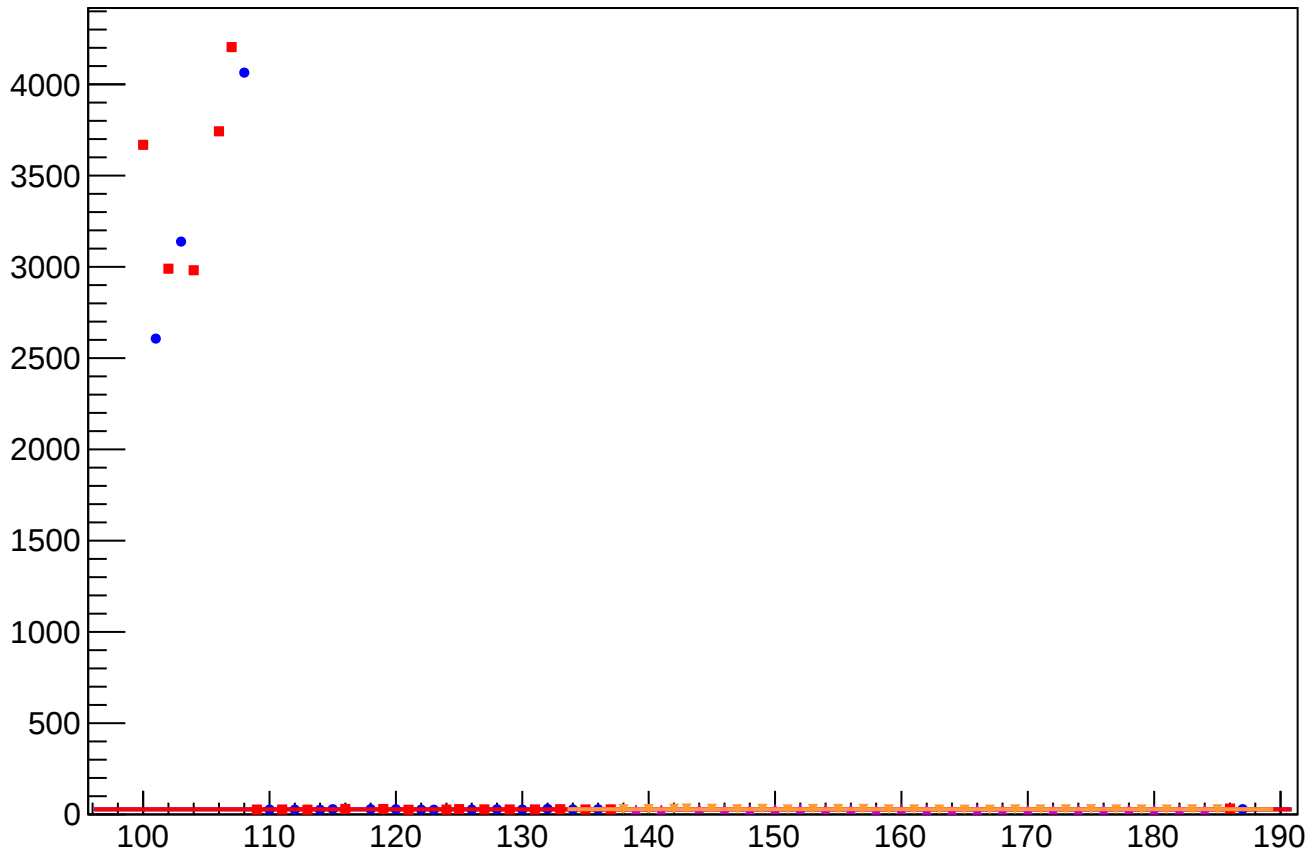
Left In: -1.267 $\pm$ 6.908 χ^2 /NDF: 32.0/22

+ sign -11.196 $\pm$ 5.860 χ^2 /NDF: 44.5/42

All: -7.806 $\pm$ 4.185 χ^2 /NDF: 102.1/85

- sign -4.278 $\pm$ 5.979 χ^2 /NDF: 56.9/42

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug



Right In: 27.889 $\pm$ 0.009 χ^2 /NDF: 3027439.1/17

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.950 $\pm$ 0.008 χ^2 /NDF: 3491010.9/19

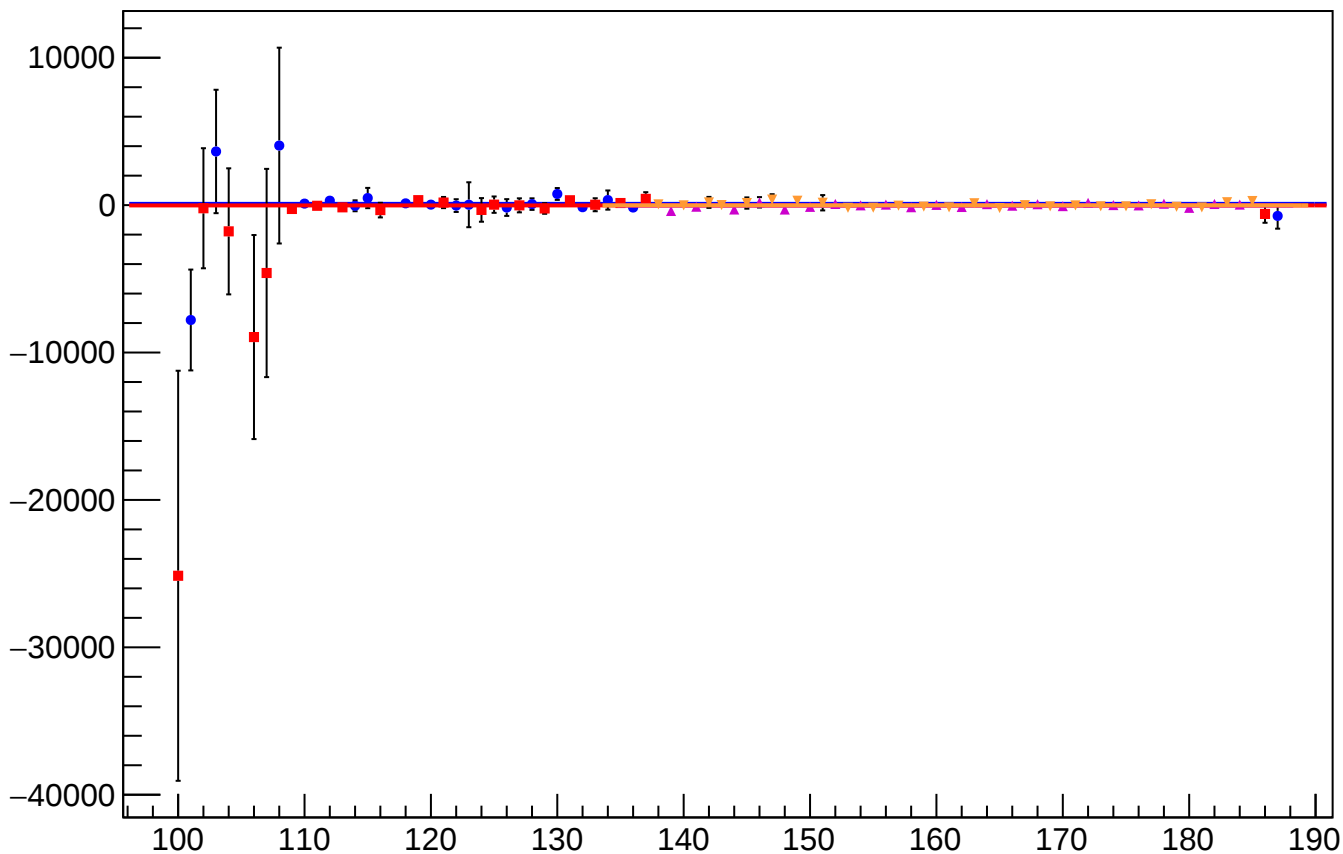
Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

+ sign 28.504 $\pm$ 0.004 χ^2 /NDF: 3144708.2/42

All: 28.499 $\pm$ 0.003 χ^2 /NDF: 6765092.7/85

- sign 28.494 $\pm$ 0.004 χ^2 /NDF: 3620381.9/42

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug



Right In: 85.396 $\pm$ 87.199 χ^2 /NDF: 13.6/17

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF: 8.8/24

Right Out: -19.587 $\pm$ 79.941 χ^2 /NDF: 13.7/19

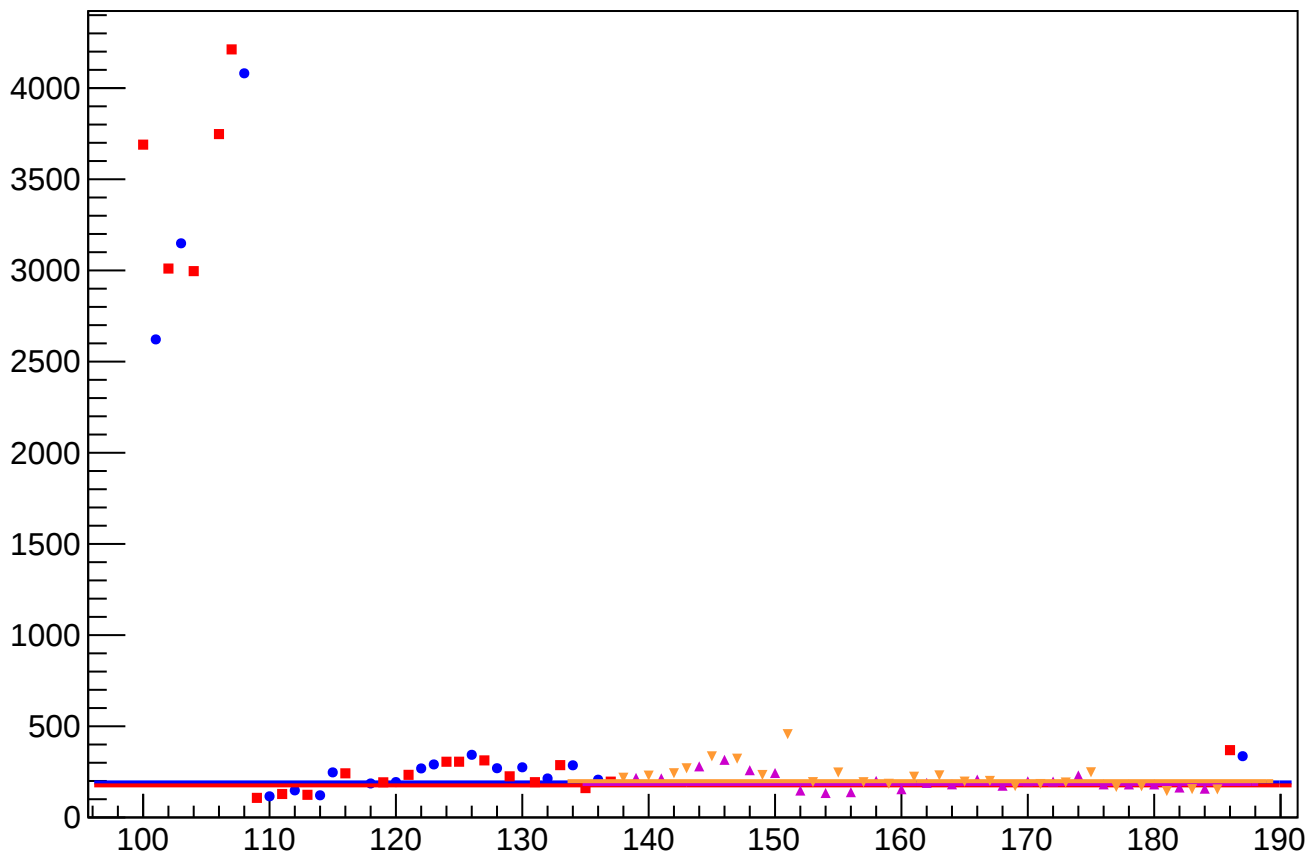
Left In: -27.286 $\pm$ 45.907 χ^2 /NDF: 7.5/22

+ sign 9.323 $\pm$ 42.155 χ^2 /NDF: 23.4/42

All: -9.019 $\pm$ 28.943 χ^2 /NDF: 45.0/85

- sign -25.377 $\pm$ 39.810 χ^2 /NDF: 21.2/42

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug



Right In: 192.191 $\pm$ 0.062 χ^2 /NDF: 3641346.7/17

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 175.903 $\pm$ 0.057 χ^2 /NDF: 4424479.4/19

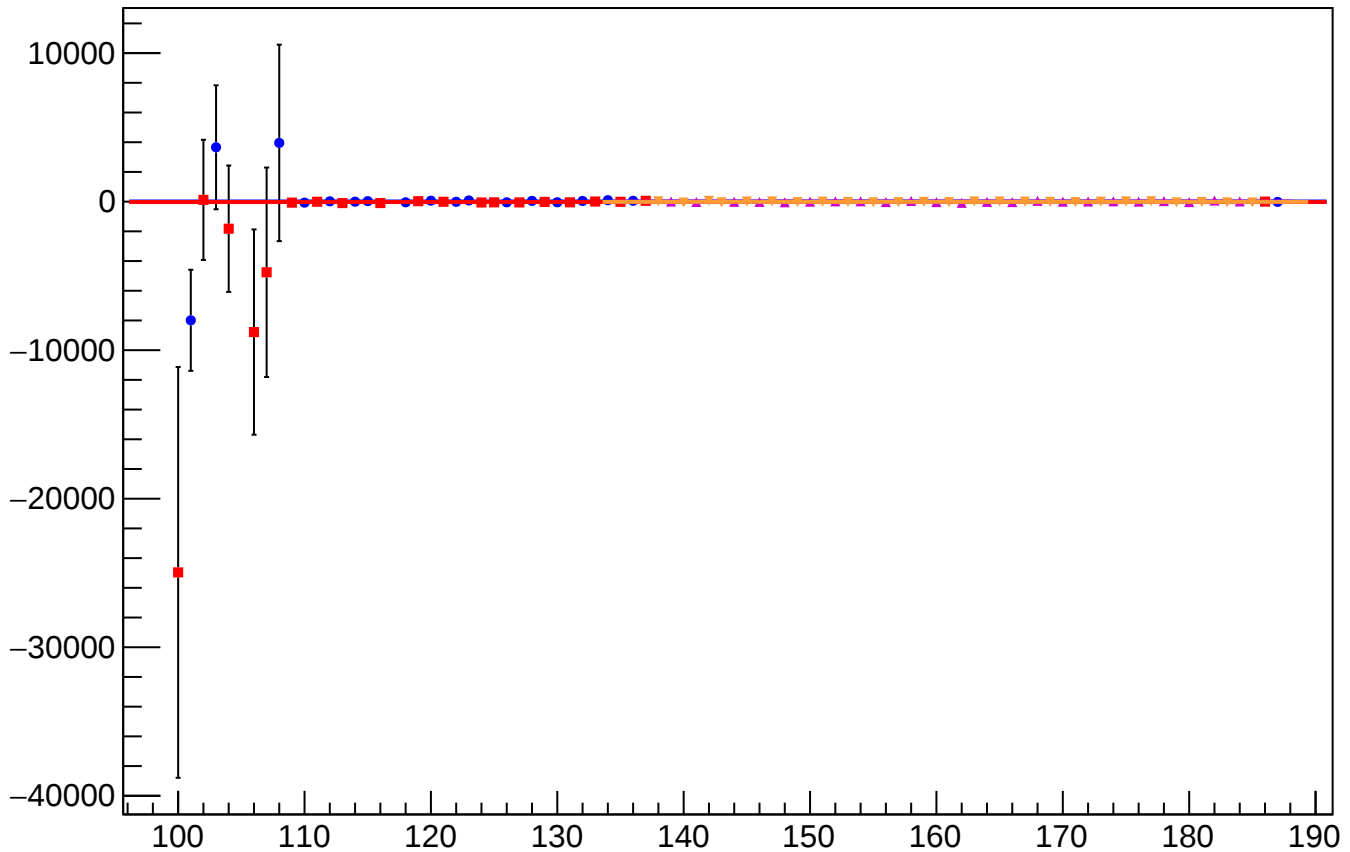
Left In: 183.442 $\pm$ 0.032 χ^2 /NDF: 1412341.8/22

+ sign 197.406 $\pm$ 0.030 χ^2 /NDF: 5528318.1/42

All: 189.037 $\pm$ 0.020 χ^2 /NDF: 11527665.6/85

- sign 181.572 $\pm$ 0.028 χ^2 /NDF: 5850194.7/42

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug



Right In: 8.744 ± 12.147 χ^2/NDF : 22.6/17

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: -26.741 ± 12.012 χ^2/NDF : 16.5/19

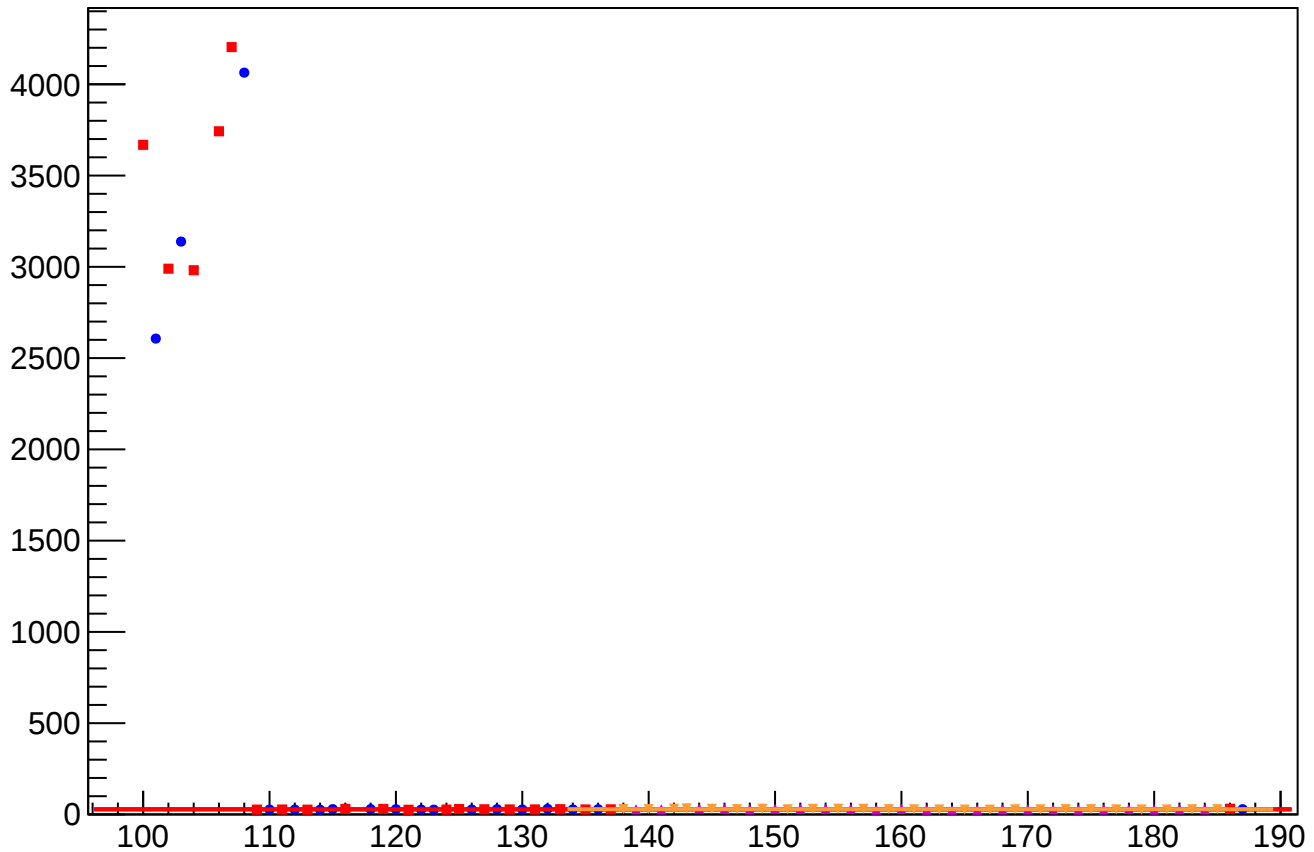
Left In: 0.498 ± 6.937 χ^2/NDF : 26.1/22

+ sign -10.053 ± 5.889 χ^2/NDF : 42.3/42

All: -8.221 ± 4.205 χ^2/NDF : 89.0/85

- sign -6.314 ± 6.007 χ^2/NDF : 46.5/42

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug



Right In: 28.064 $\pm$ 0.009 χ^2 /NDF: 3027574.7/17

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 28.125 $\pm$ 0.008 χ^2 /NDF: 3488197.0/19

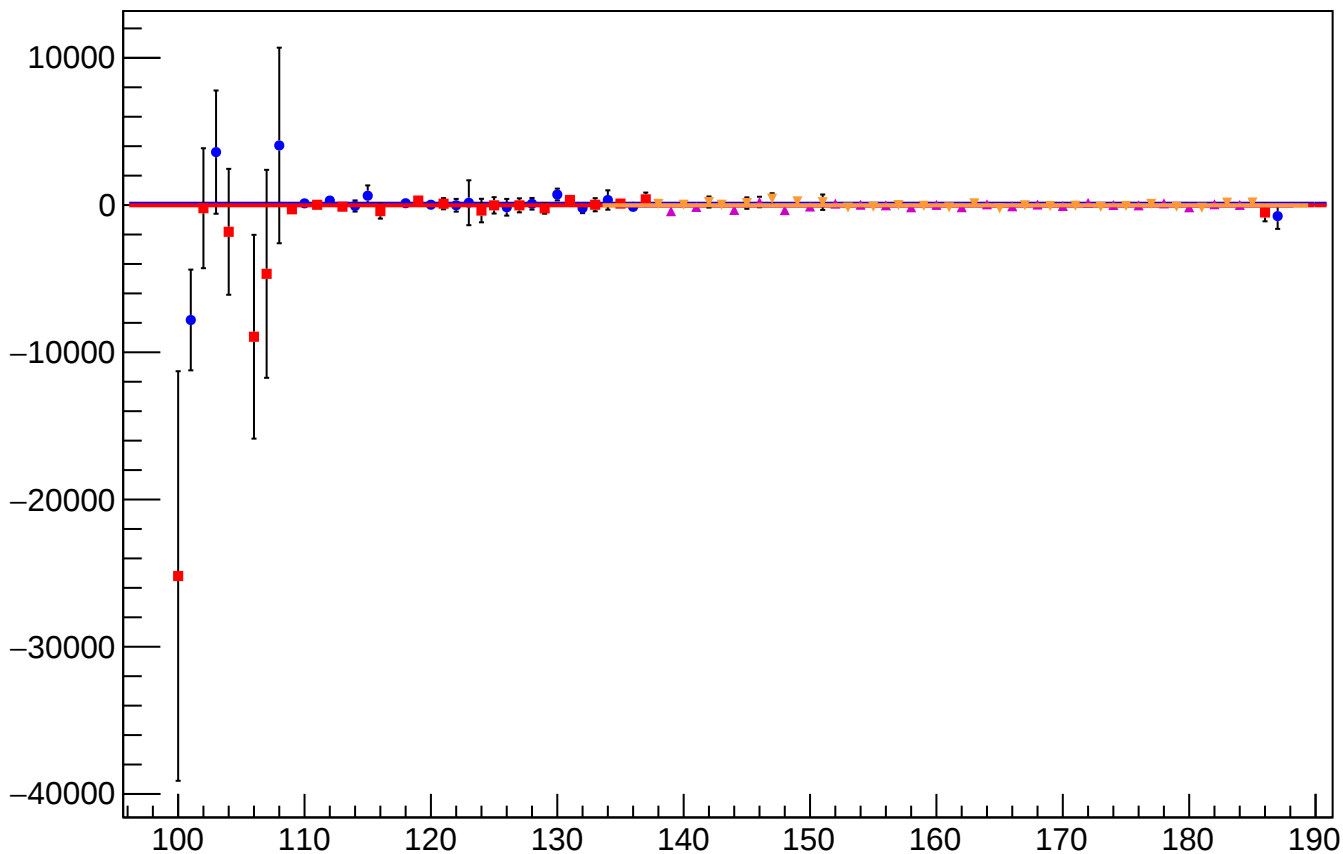
Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

+ sign 28.638 $\pm$ 0.004 χ^2 /NDF: 3155566.6/42

All: 28.634 $\pm$ 0.003 χ^2 /NDF: 6776747.8/85

- sign 28.629 $\pm$ 0.004 χ^2 /NDF: 3621178.9/42

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug



Right In: 92.806 $\pm$ 88.223 χ^2 /NDF: 13.5/17

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF: 8.1/24

Right Out: -16.951 $\pm$ 81.005 χ^2 /NDF: 12.9/19

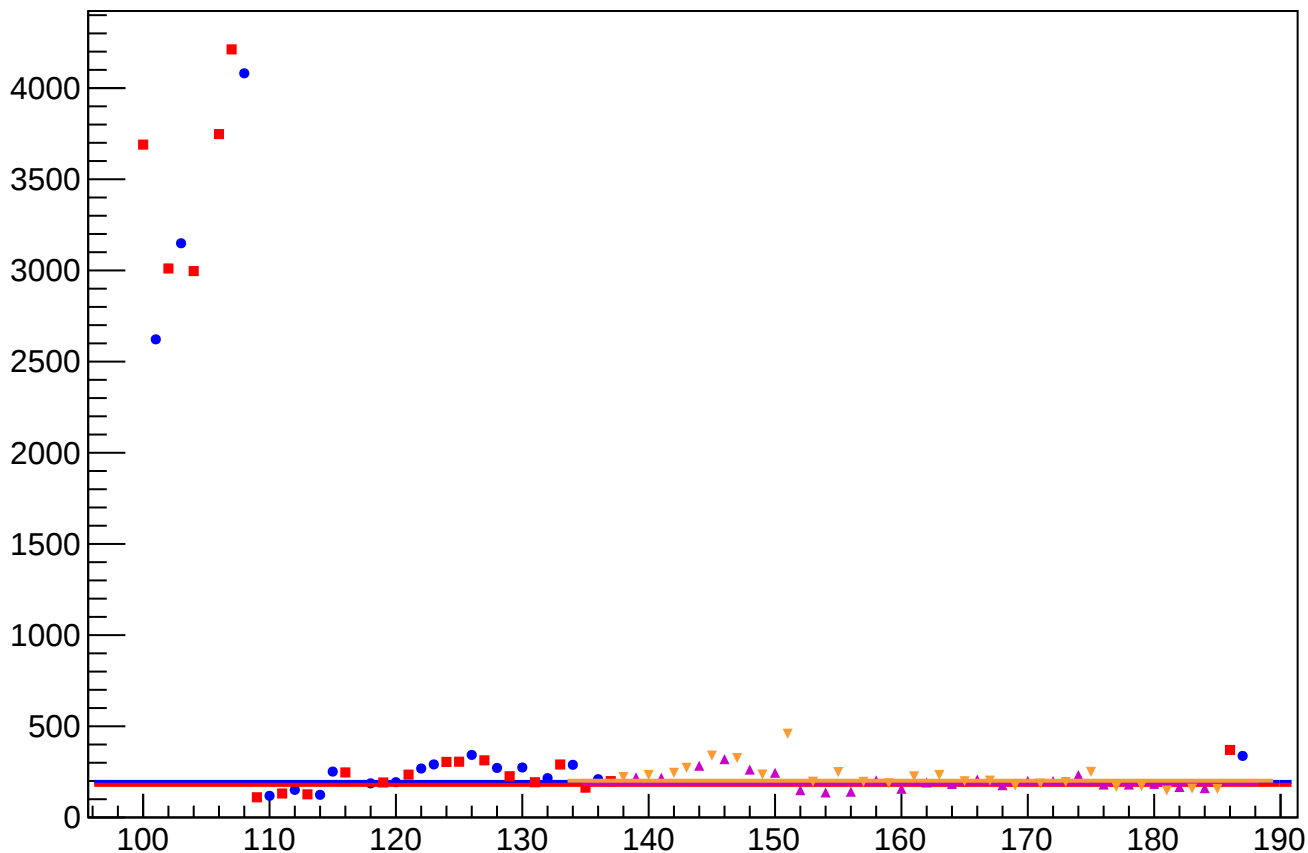
Left In: -31.477 $\pm$ 46.483 χ^2 /NDF: 7.8/22

+ sign 10.999 $\pm$ 42.659 χ^2 /NDF: 22.8/42

All: -9.537 $\pm$ 29.301 χ^2 /NDF: 44.0/85

- sign -27.879 $\pm$ 40.317 χ^2 /NDF: 20.8/42

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug



Right In: 194.907 $\pm$ 0.062 χ^2 /NDF: 3592755.3/17

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF: 1854905.1/24

Right Out: 178.823 $\pm$ 0.057 χ^2 /NDF: 4366660.4/19

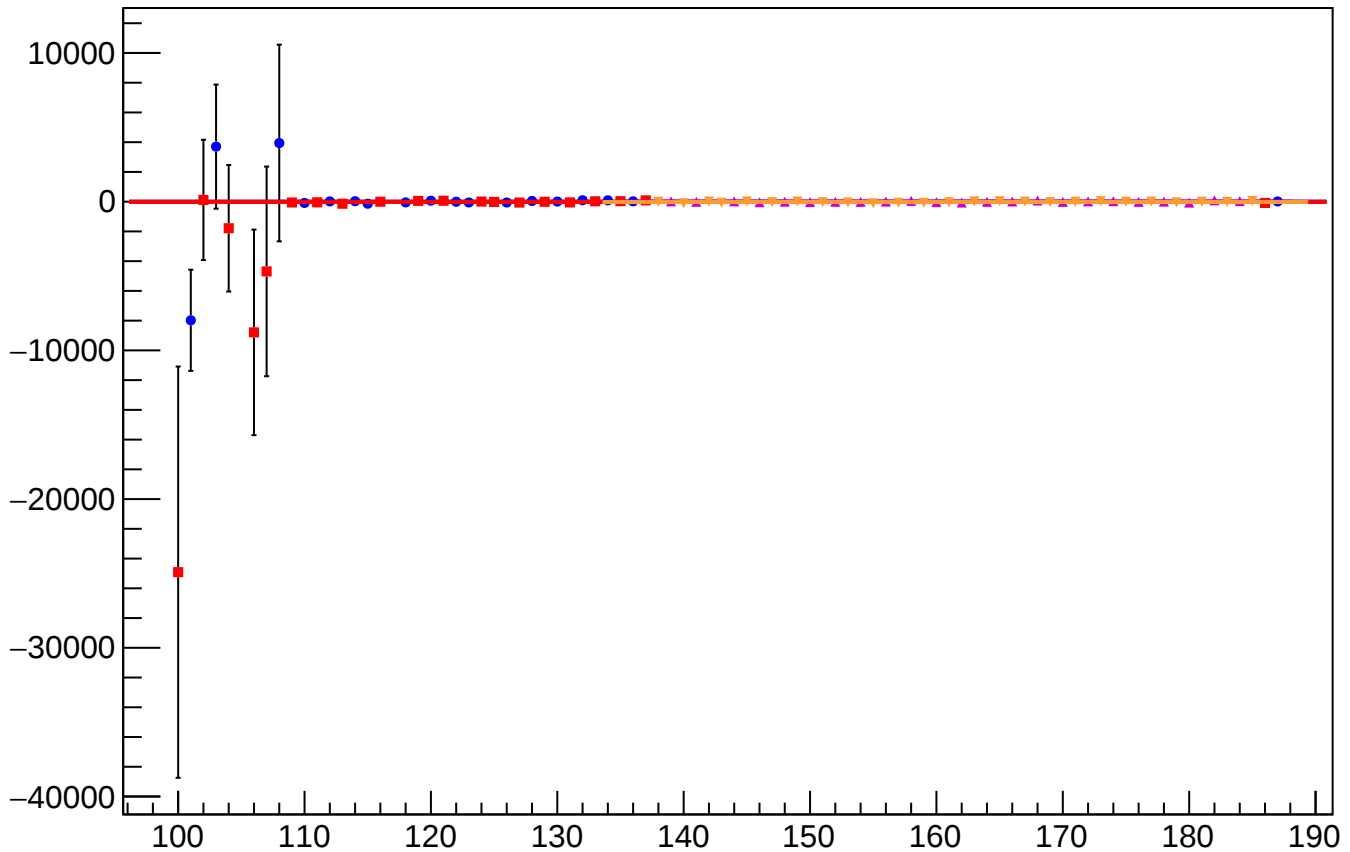
Left In: 185.878 $\pm$ 0.033 χ^2 /NDF: 1380877.6/22

+ sign 199.961 $\pm$ 0.030 χ^2 /NDF: 5456225.3/42

All: 191.599 $\pm$ 0.021 χ^2 /NDF: 11360650.9/85

- sign 184.131 $\pm$ 0.029 χ^2 /NDF: 5758953.6/42

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug



Right In: 6.464 $\pm$ 14.776 χ^2 /NDF: 20.1/17

Left Out: -24.144 $\pm$ 8.076 χ^2 /NDF:24.9/24

Right Out: -15.873 $\pm$ 14.548 χ^2 /NDF: 22.6/19

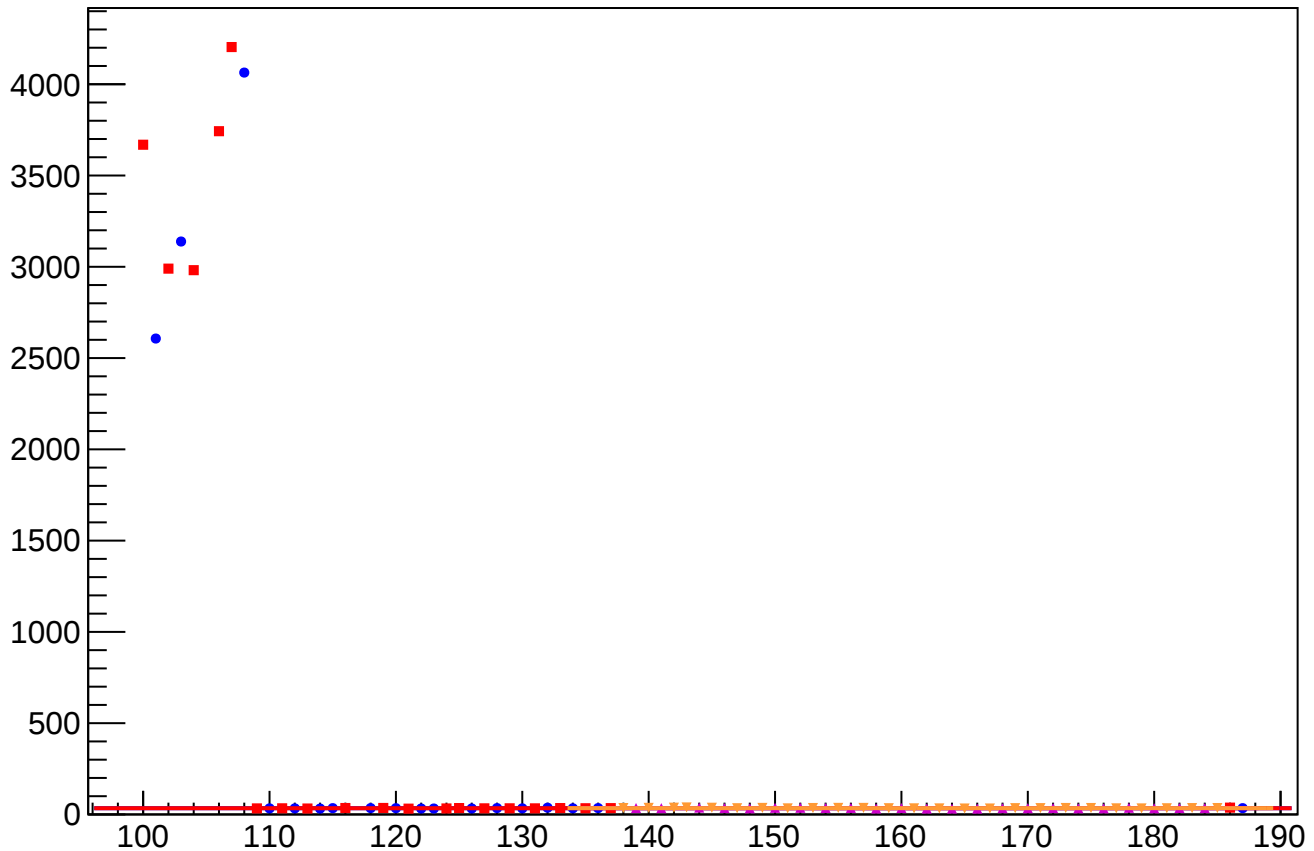
Left In: 5.924 $\pm$ 8.340 χ^2 /NDF:21.0/22

+ sign -17.103 $\pm$ 7.087 χ^2 /NDF: 48.3/42

All: -8.468 $\pm$ 5.063 χ^2 /NDF: 96.6/85

- sign 0.532 $\pm$ 7.235 χ^2 /NDF: 45.3/42

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug



Right In: 34.179 $\pm$ 0.010 χ^2 /NDF: 3006162.0/17

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 34.131 $\pm$ 0.010 χ^2 /NDF: 3457990.6/19

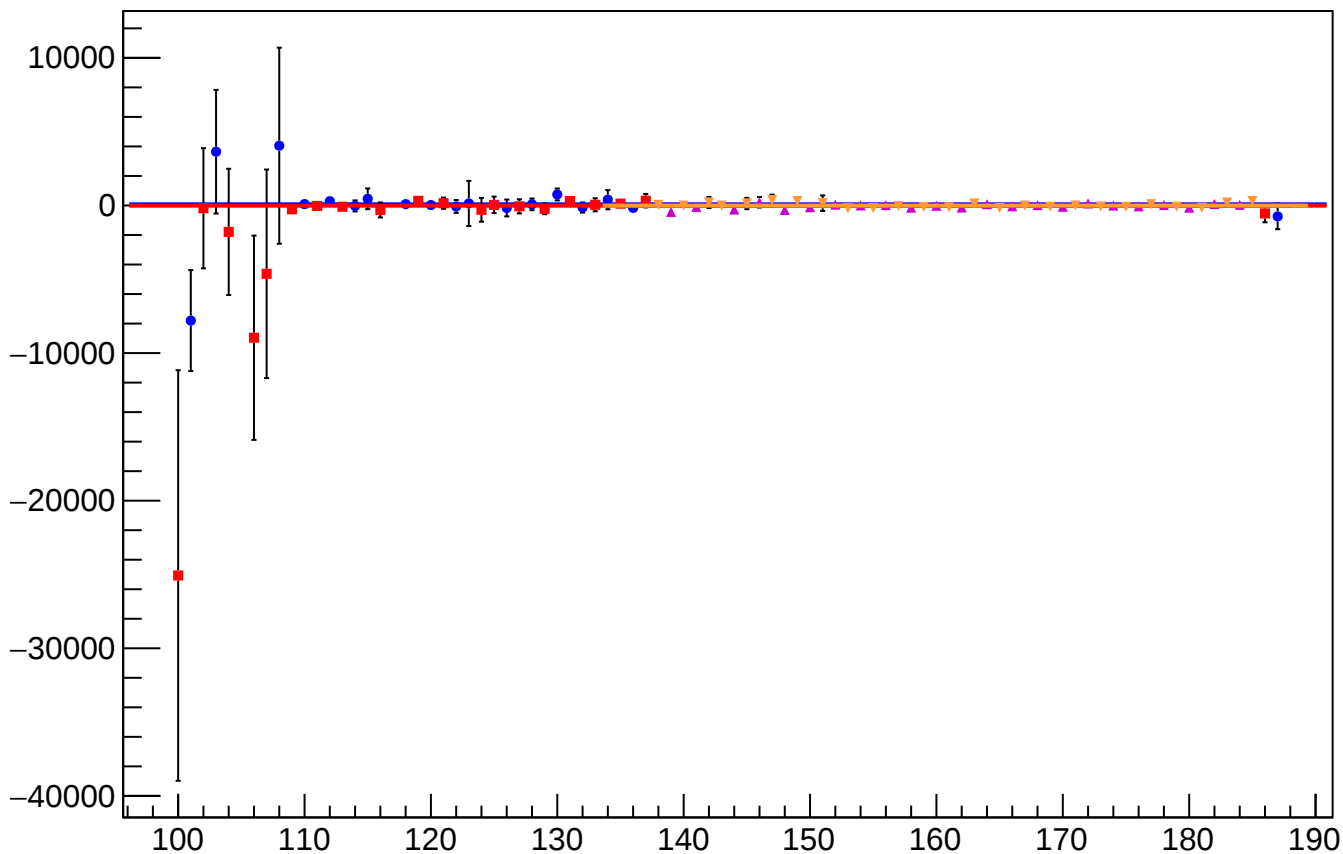
Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

+ sign 34.517 $\pm$ 0.005 χ^2 /NDF: 3065387.9/42

All: 34.531 $\pm$ 0.004 χ^2 /NDF: 6585389.9/85

- sign 34.545 $\pm$ 0.005 χ^2 /NDF: 3519985.8/42

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug



Right In: 78.269+/-87.789 χ^2/NDF : 13.4/17

Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24

Right Out: -13.443+/-80.496 χ^2/NDF : 11.9/19

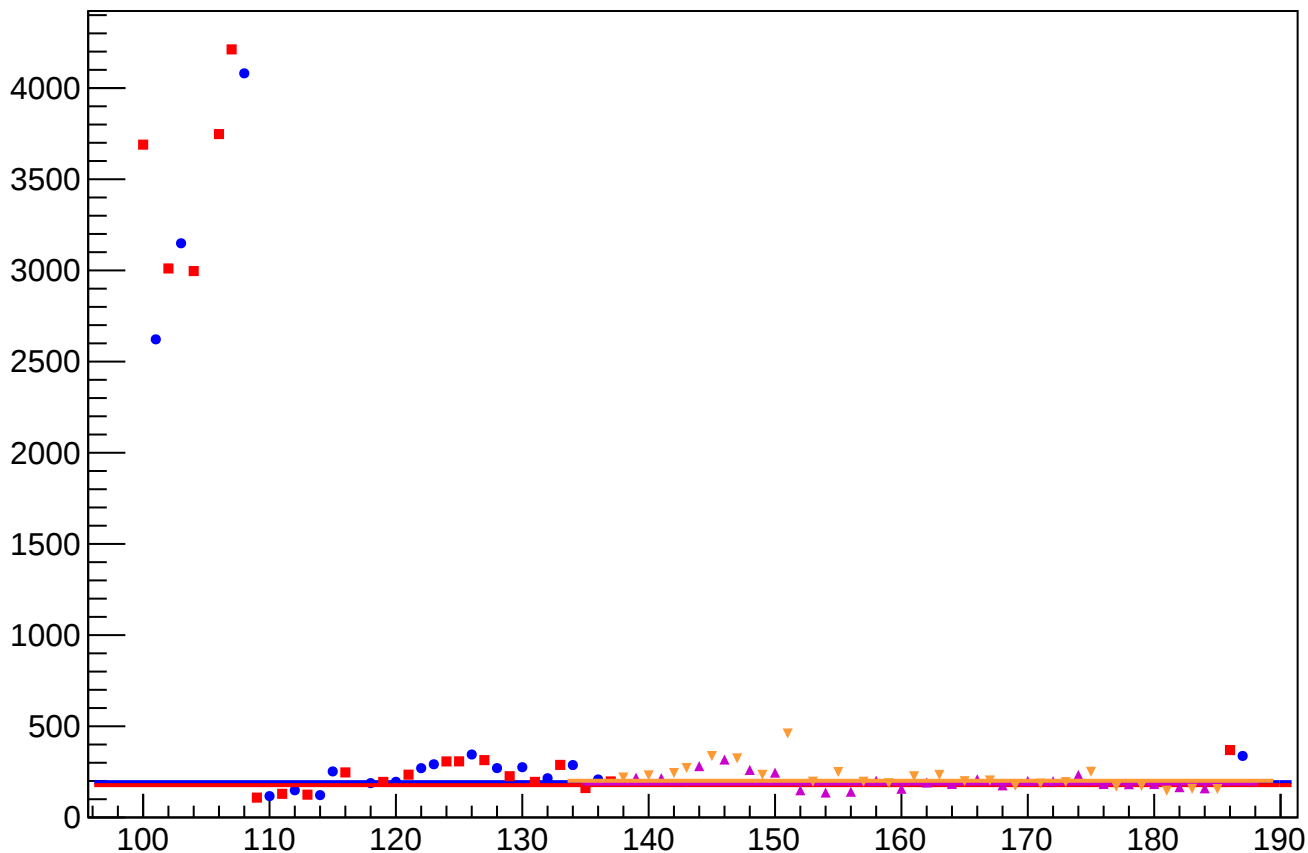
Left In: -34.977+/-46.421 χ^2/NDF : 7.1/22

+ sign 12.615+/-42.561 χ^2/NDF : 22.9/42

All: -9.691+/-29.230 χ^2/NDF : 42.4/85

- sign -29.603+/-40.213 χ^2/NDF : 19.1/42

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug



Right In: 193.604 $\pm$ 0.062 χ^2 /NDF: 3630752.4/17

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 177.256 $\pm$ 0.057 χ^2 /NDF: 4415157.9/19

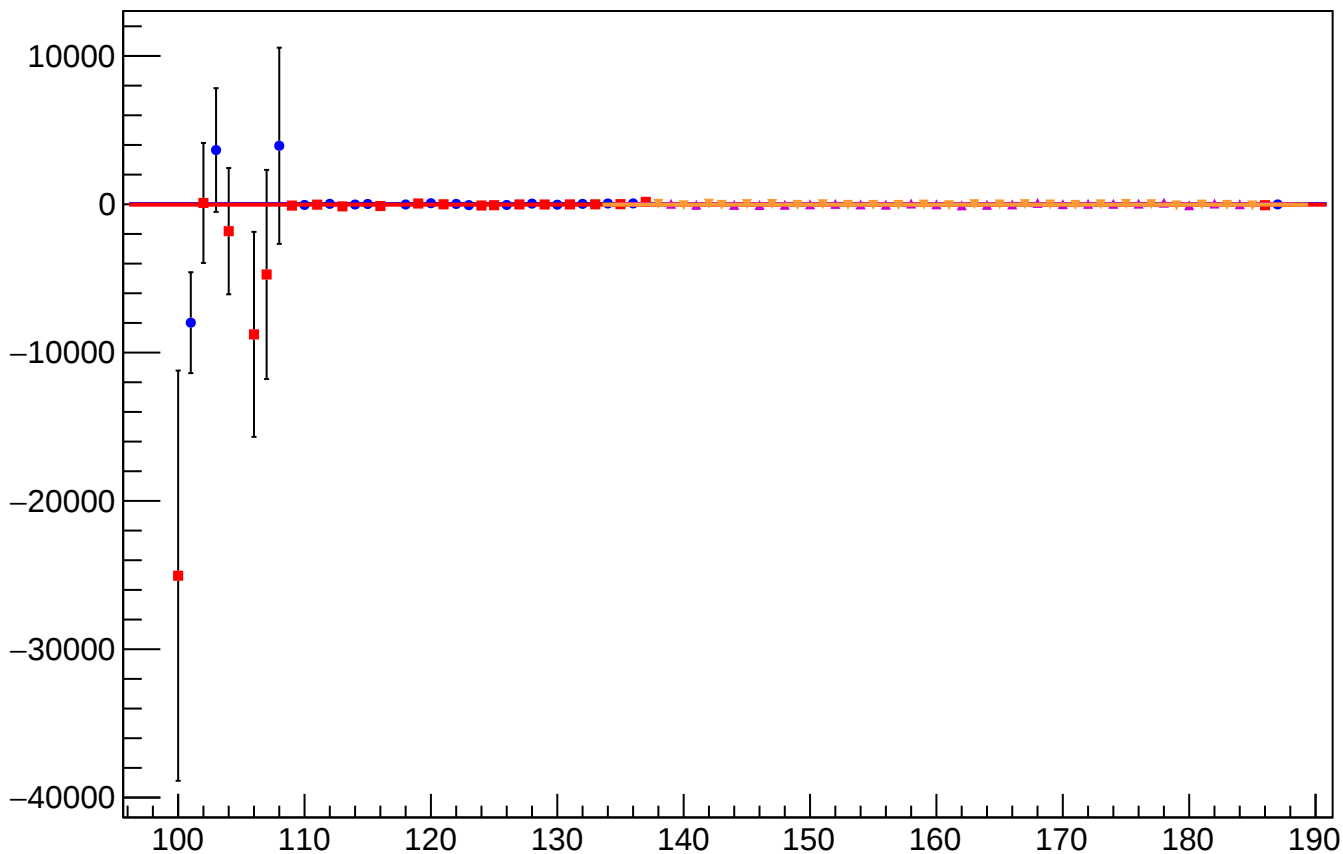
Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

+ sign 199.413 $\pm$ 0.030 χ^2 /NDF: 5490638.8/42

All: 191.026 $\pm$ 0.021 χ^2 /NDF: 11440458.2/85

- sign 183.538 $\pm$ 0.028 χ^2 /NDF: 5802803.1/42

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug



Right In: 13.551+/-13.472 χ^2/NDF : 14.9/17

Left Out: -23.320+/-7.352 χ^2/NDF : 18.3/24

Right Out: -25.143+/-13.303 χ^2/NDF : 27.8/19

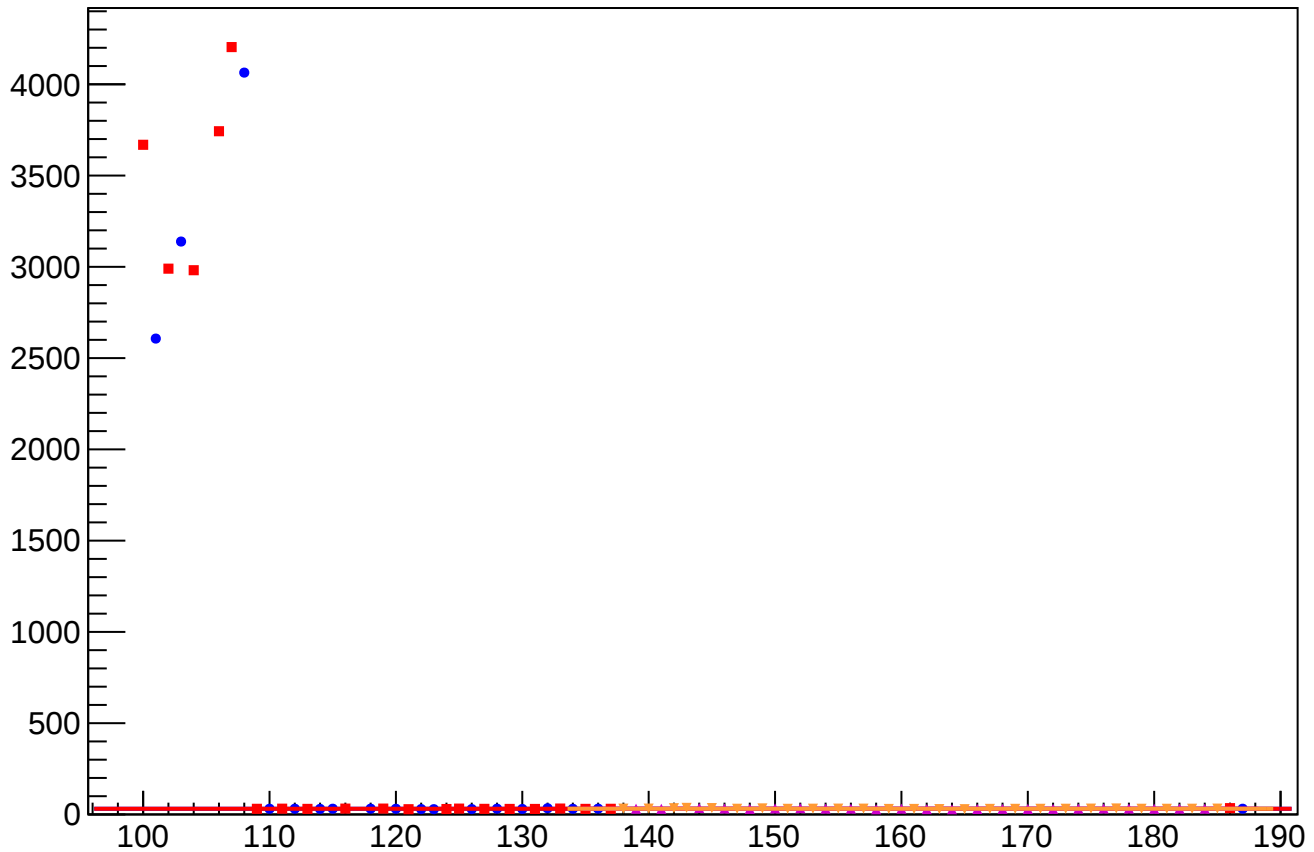
Left In: 6.386+/-7.577 χ^2/NDF : 38.7/22

+ sign -14.860+/-6.454 χ^2/NDF : 39.0/42

All: -8.233+/-4.609 χ^2/NDF : 111.9/85

- sign -1.337+/-6.584 χ^2/NDF : 70.8/42

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug



Right In: 31.163 $\pm$ 0.010 χ^2 /NDF: 3014178.2/17

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 31.188 $\pm$ 0.009 χ^2 /NDF: 3466638.6/19

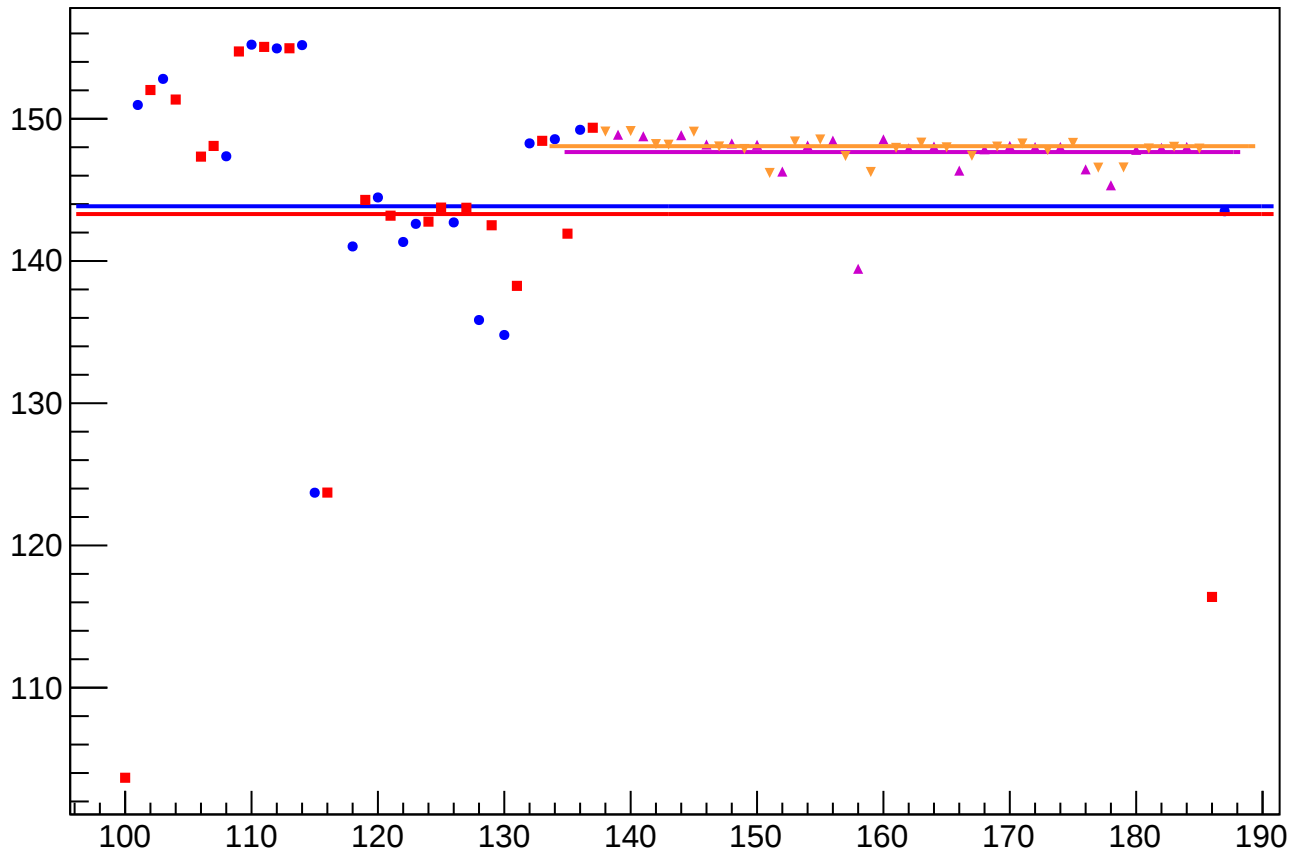
Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

+ sign 31.414 $\pm$ 0.005 χ^2 /NDF: 3097015.2/42

All: 31.409 $\pm$ 0.003 χ^2 /NDF: 6652159.7/85

- sign 31.405 $\pm$ 0.005 χ^2 /NDF: 3555142.6/42

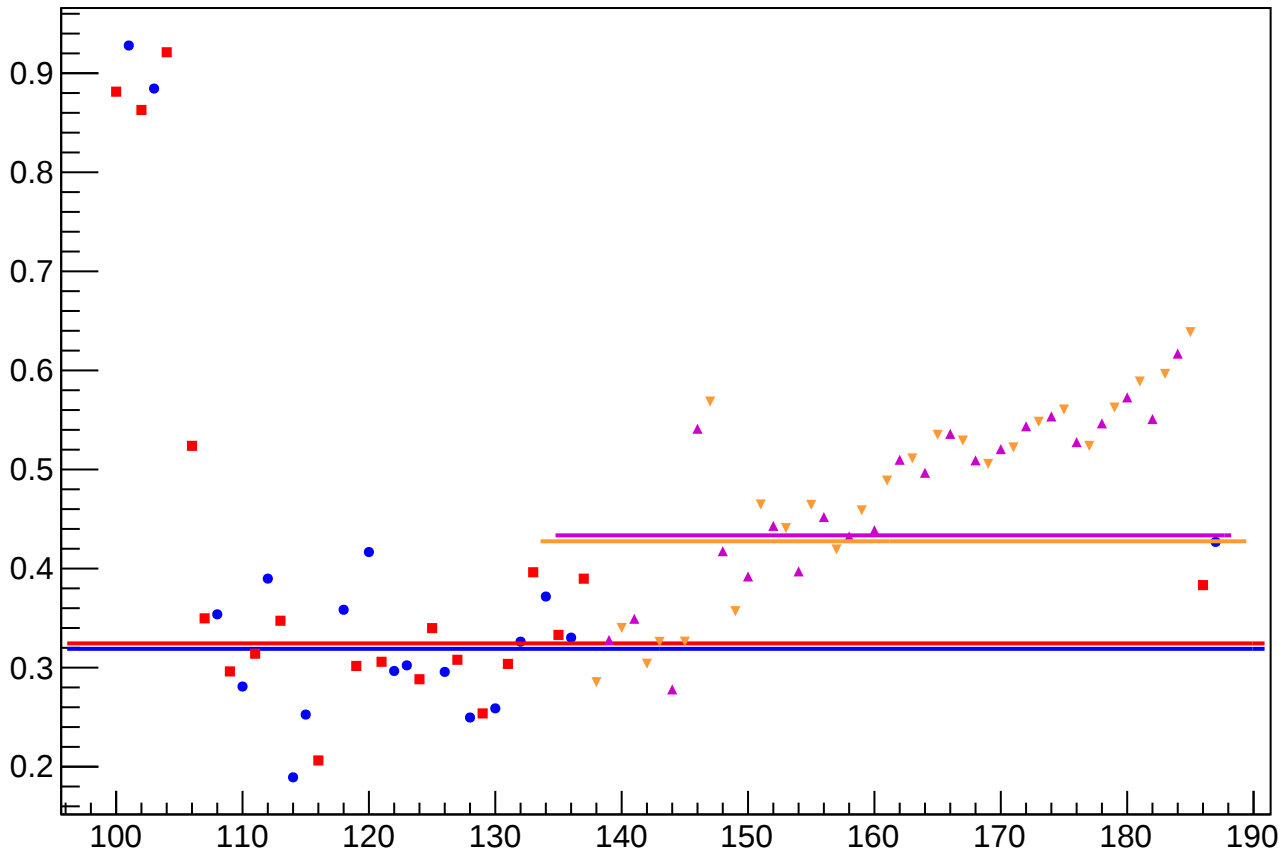
yield_bcm_an_ds_mean vs Slug



Right In: 143.849 ± 0.000 χ^2/NDF : 3448402978.1/17
 Left Out: 148.074 ± 0.000 χ^2/NDF : 65673678.9/24
 Right Out: 143.301 ± 0.000 χ^2/NDF : 6071566594.1/19
 Left In: 147.660 ± 0.000 χ^2/NDF : 343892338.9/22

+ sign 146.481 ± 0.000 χ^2/NDF : 4137151761.6/42
 All: 146.188 ± 0.000 χ^2/NDF : 11242541740.
 - sign 145.886 ± 0.000 χ^2/NDF : 7079440641.4/42

yield_bcm_an_ds_rms vs Slug



Right In: 0.319 ± 0.000 χ^2/NDF : 1291491.6/17

Left Out: 0.428 ± 0.000 χ^2/NDF : 1892802.8/24

Right Out: 0.324 ± 0.000 χ^2/NDF : 1233247.1/19

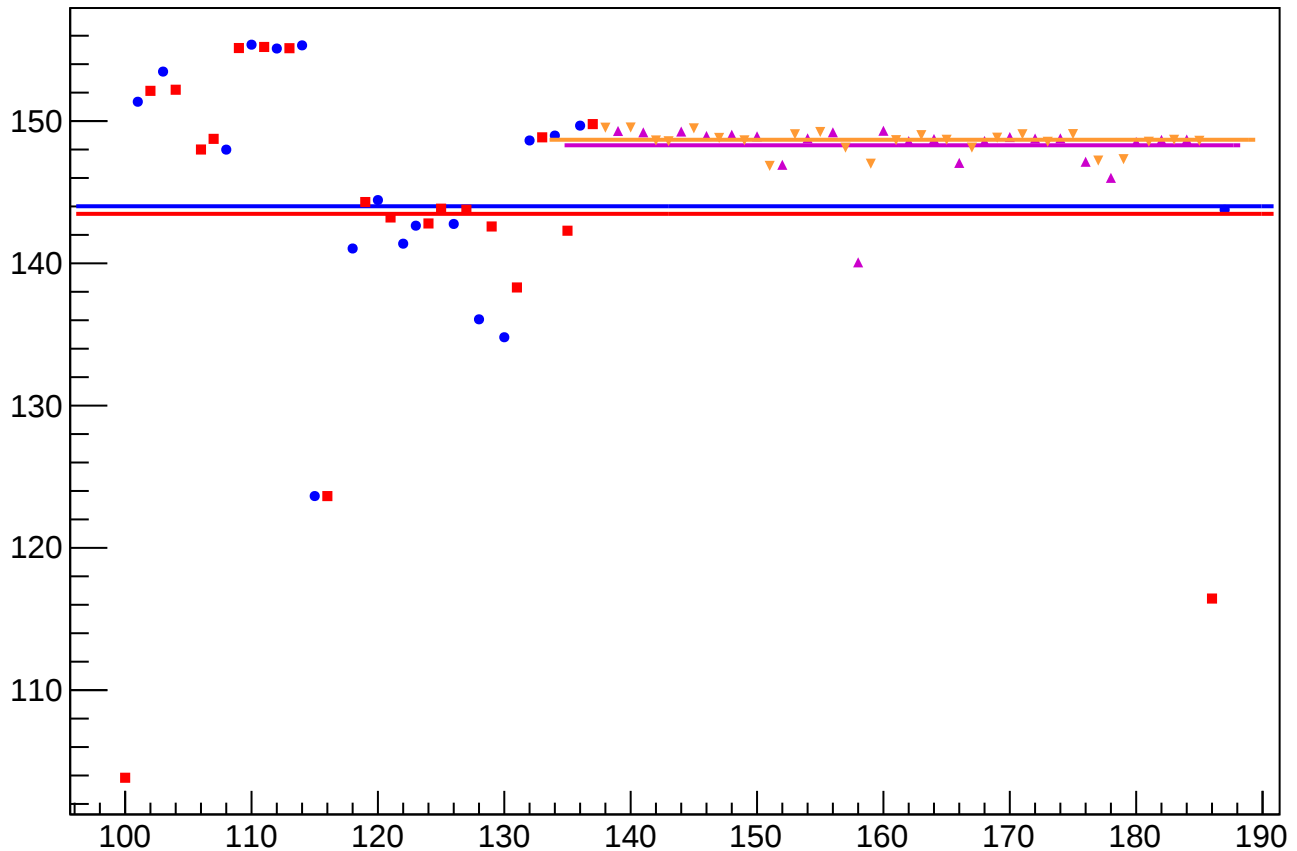
Left In: 0.434 ± 0.000 χ^2/NDF : 1479367.0/22

+ sign 0.387 ± 0.000 χ^2/NDF : 4006875.0/42

All: 0.388 ± 0.000 χ^2/NDF : 7551462.5/85

- sign 0.389 ± 0.000 χ^2/NDF : 3543651.5/42

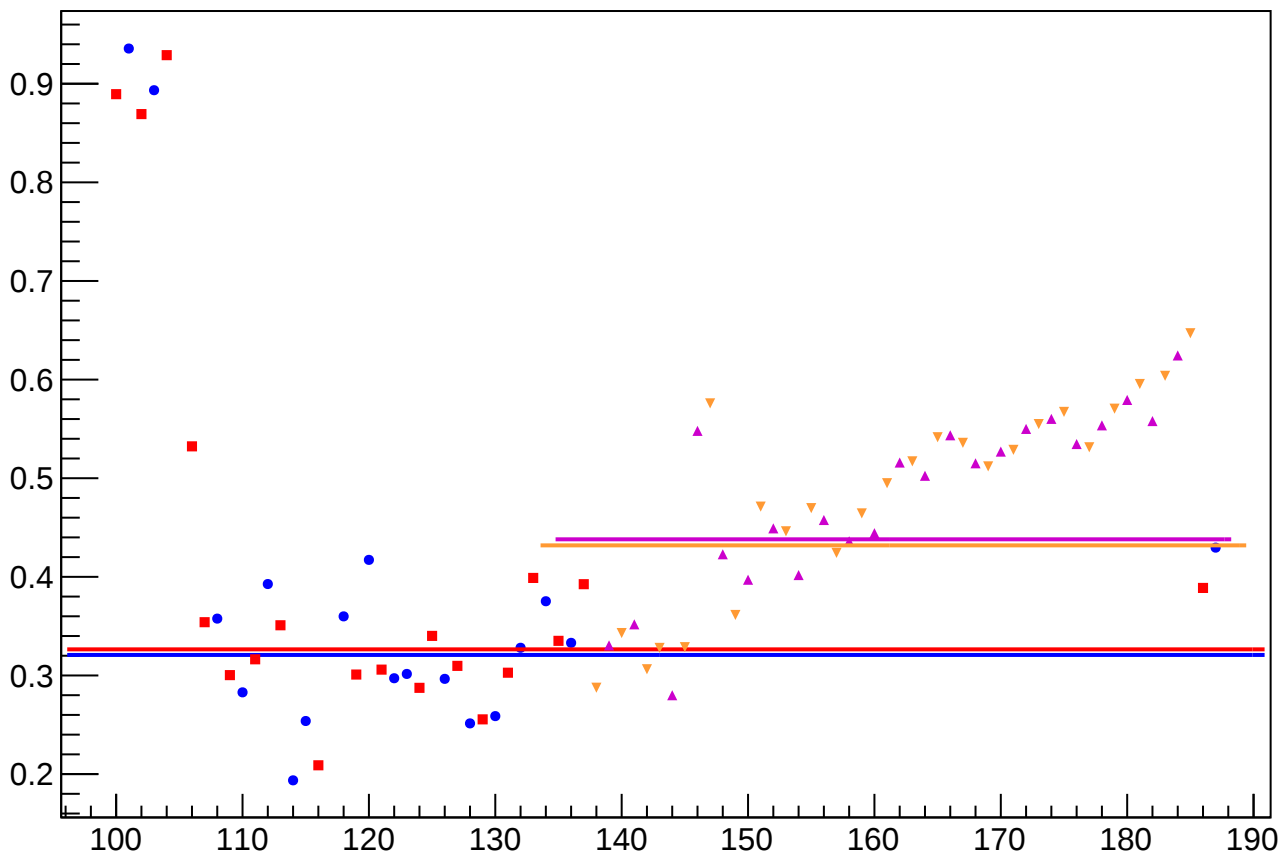
yield_bcm_an_ds3_mean vs Slug



Right In: 144.013 ± 0.000 χ^2/NDF : 3492269657.2/17
 Left Out: 148.687 ± 0.000 χ^2/NDF : 52285197.5/24
 Right Out: 143.479 ± 0.000 χ^2/NDF : 6058269547.2/19
 Left In: 148.298 ± 0.000 χ^2/NDF : 332527463.6/22

+ sign 146.914 ± 0.000 χ^2/NDF : 4295699391.0/42
 All: 146.624 ± 0.000 χ^2/NDF : 11509560813.
 - sign 146.326 ± 0.000 χ^2/NDF : 7188975590.4/42

yield_bcm_an_ds3_rms vs Slug



Right In: 0.321 ± 0.000 χ^2/NDF : 1293131.8/17

Left Out: 0.432 ± 0.000 χ^2/NDF : 1924979.0/24

Right Out: 0.326 ± 0.000 χ^2/NDF : 1237167.2/19

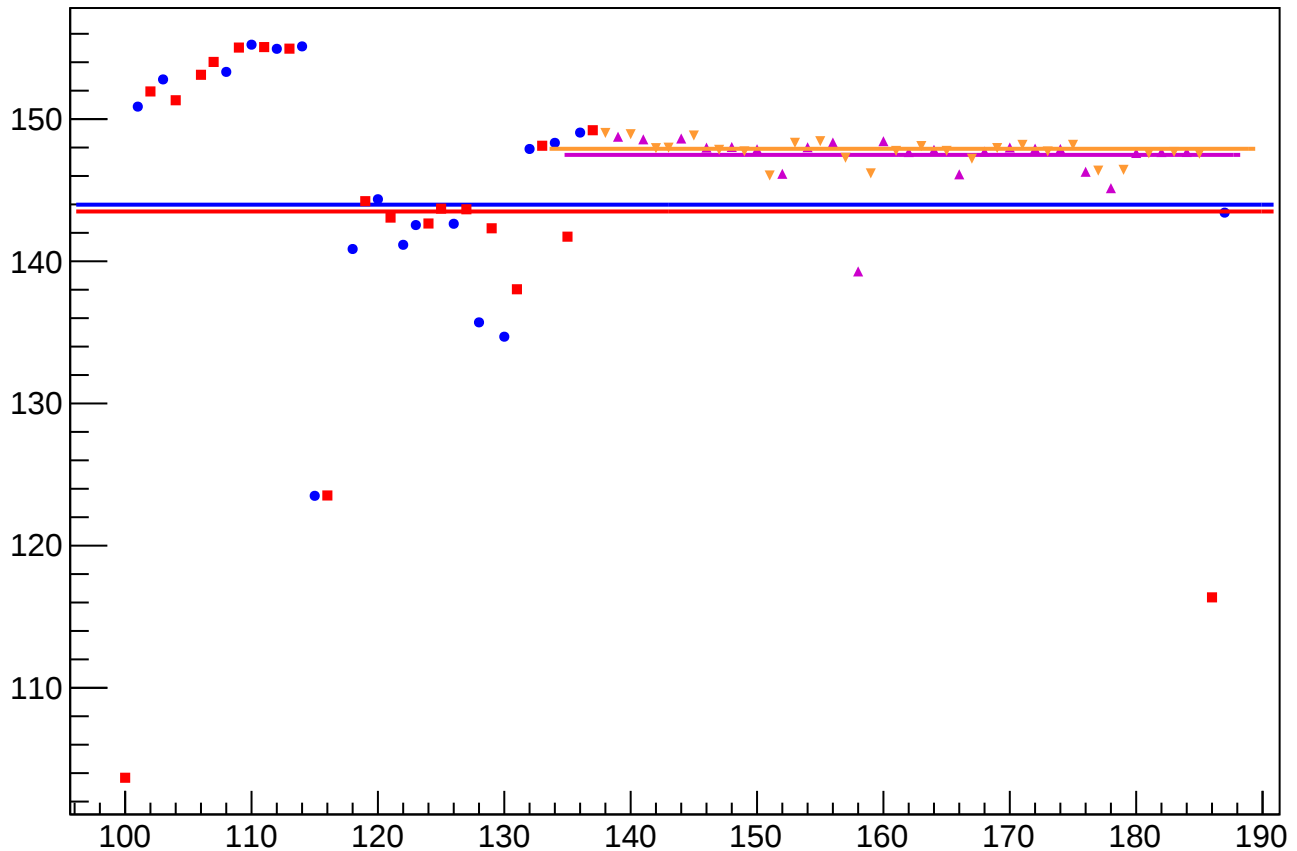
Left In: 0.438 ± 0.000 χ^2/NDF : 1504635.6/22

+ sign 0.390 ± 0.000 χ^2/NDF : 4066770.5/42

All: 0.391 ± 0.000 χ^2/NDF : 7665390.5/85

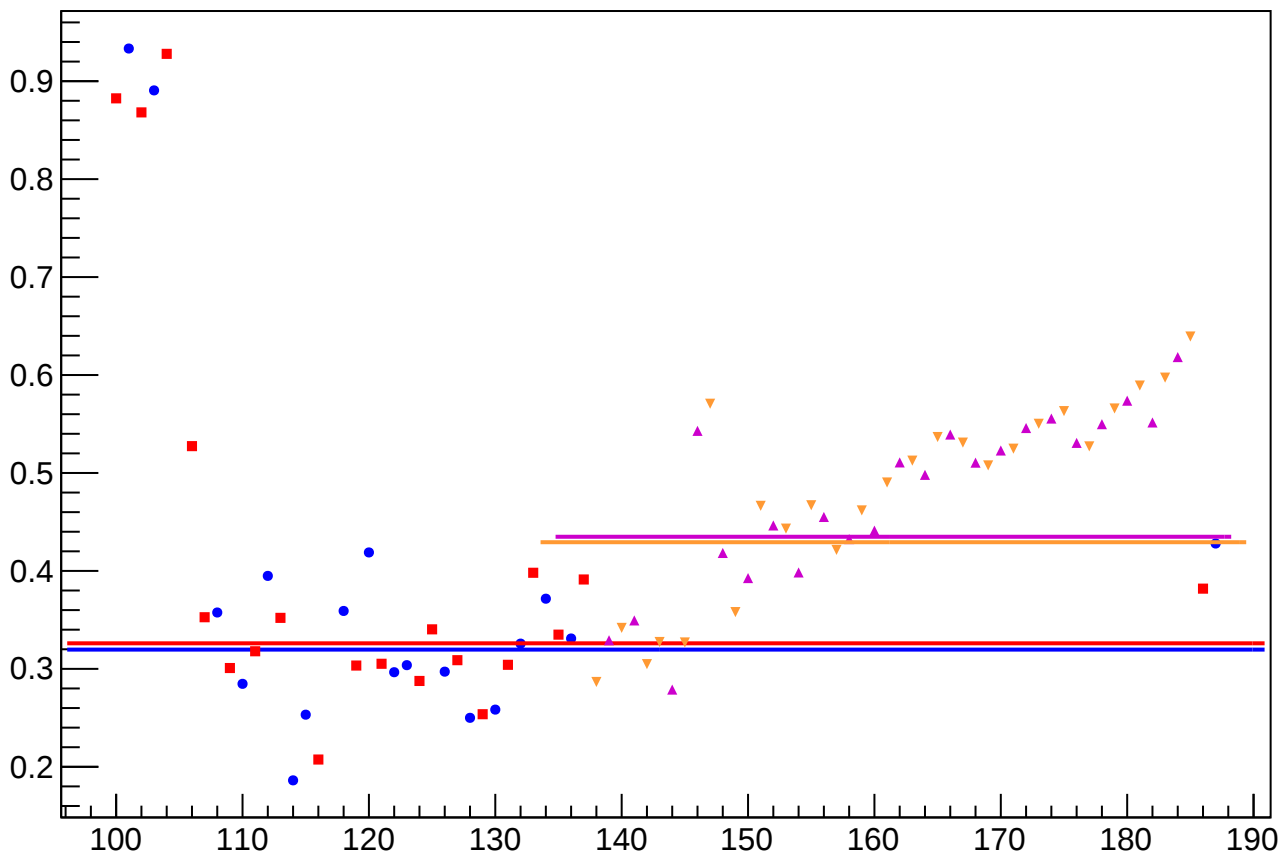
- sign 0.392 ± 0.000 χ^2/NDF : 3597623.5/42

yield_bcm_an_us_mean vs Slug



Right In: 143.982 ± 0.000 χ^2/NDF : 3662003860.9/17
 Left Out: 147.912 ± 0.000 χ^2/NDF : 64463426.1/24
 Right Out: 143.503 ± 0.000 χ^2/NDF : 6407120582.8/19
 Left In: 147.483 ± 0.000 χ^2/NDF : 342674720.4/22
 All: 146.152 ± 0.000 χ^2/NDF : 11583571057.0
 + sign 146.428 ± 0.000 χ^2/NDF : 4261963710.1/42
 - sign 145.867 ± 0.000 χ^2/NDF : 7298668787.6/42

yield_bcm_an_us_rms vs Slug



Right In: 0.320 ± 0.000 χ^2/NDF : 1306270.8/17

Left Out: 0.429 ± 0.000 χ^2/NDF : 1891709.3/24

Right Out: 0.326 ± 0.000 χ^2/NDF : 1236452.5/19

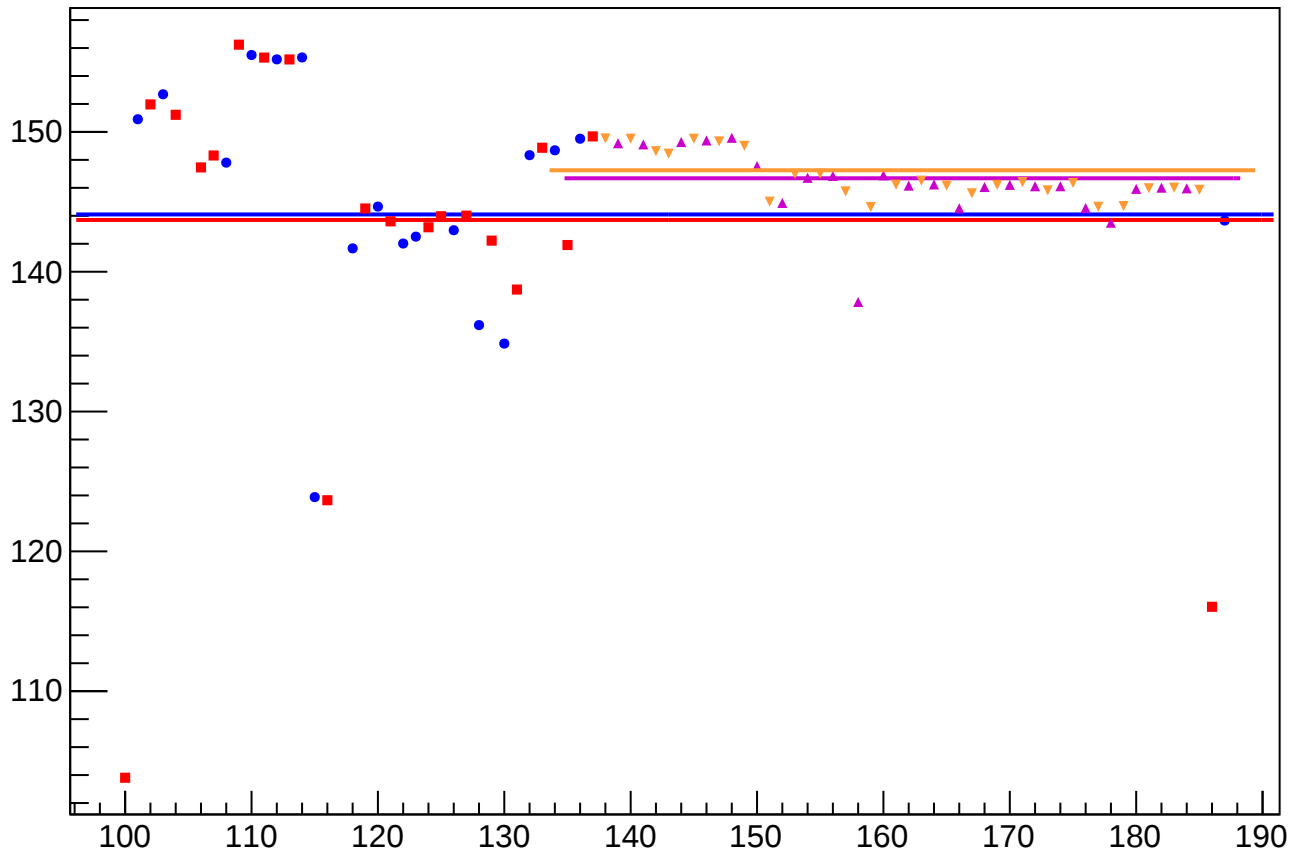
Left In: 0.435 ± 0.000 χ^2/NDF : 1485915.1/22

+ sign 0.388 ± 0.000 χ^2/NDF : 4031572.8/42

All: 0.389 ± 0.000 χ^2/NDF : 7575050.3/85

- sign 0.391 ± 0.000 χ^2/NDF : 3542347.3/42

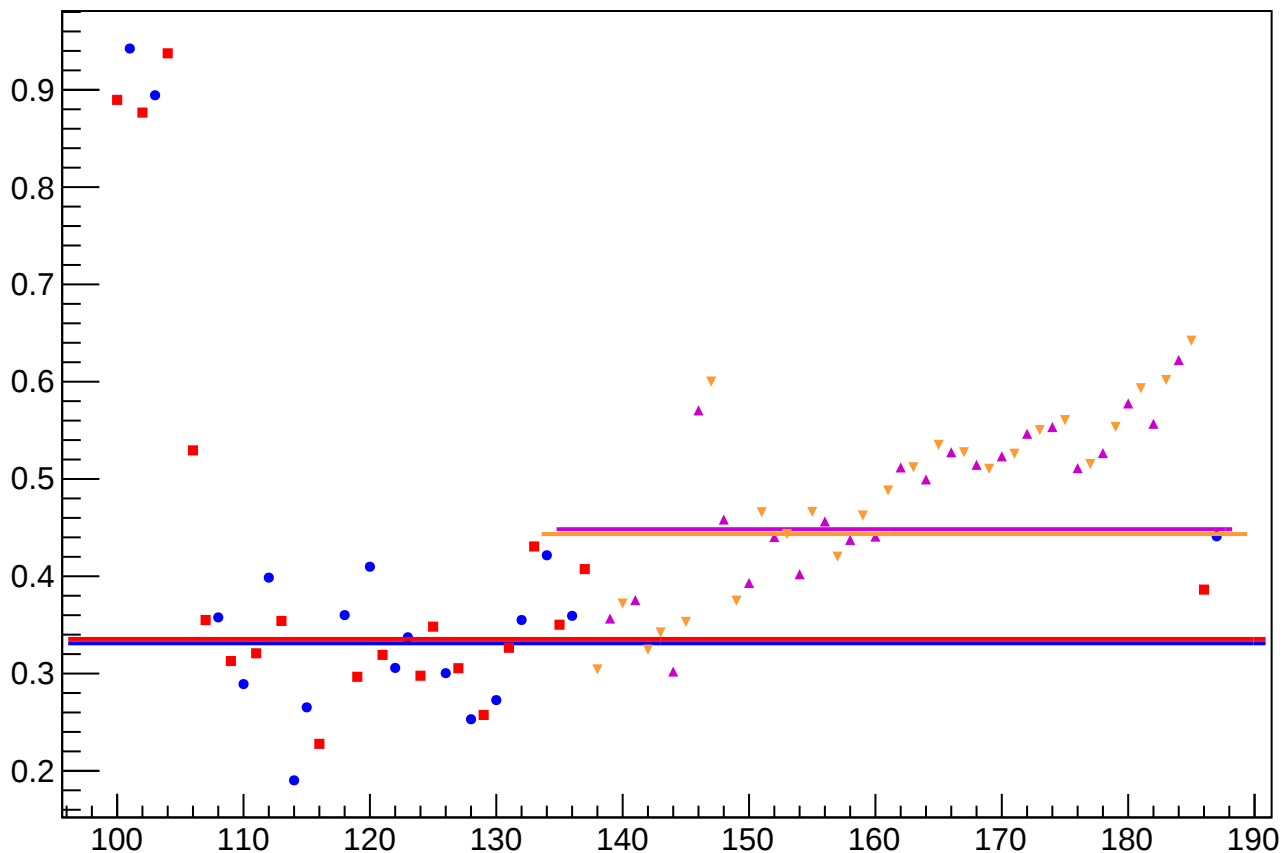
yield_bcm_dg_us_mean vs Slug



Right In: 144.098 ± 0.000 χ^2/NDF : 3160421315.8/17
 Left Out: 147.257 ± 0.000 χ^2/NDF : 261906278.3/24
 Right Out: 143.703 ± 0.000 χ^2/NDF : 5819996538.2/19
 Left In: 146.685 ± 0.000 χ^2/NDF : 554922388.0/22

+ sign 146.078 ± 0.000 χ^2/NDF : 3746361951.5/42
 All: 145.781 ± 0.000 χ^2/NDF : 10437226537.
 - sign 145.479 ± 0.000 χ^2/NDF : 6666276072.9/42

yield_bcm_dg_us_rms vs Slug



Right In: 0.331 ± 0.000 χ^2/NDF : 1288074.6/17

Left Out: 0.443 ± 0.000 χ^2/NDF : 1480479.3/24

Right Out: 0.336 ± 0.000 χ^2/NDF : 1192203.5/19

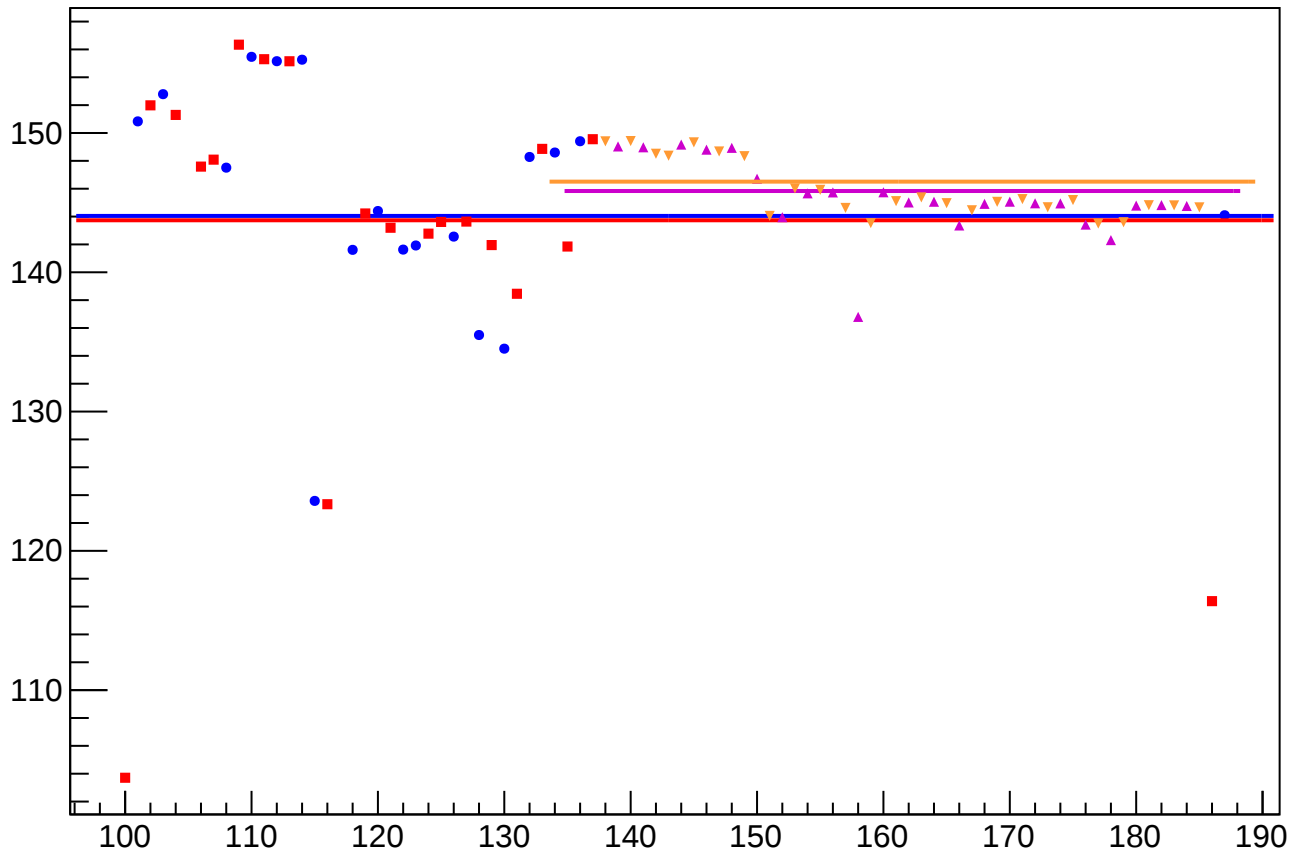
Left In: 0.448 ± 0.000 χ^2/NDF : 1120261.8/22

+ sign 0.401 ± 0.000 χ^2/NDF : 3586671.3/42

All: 0.402 ± 0.000 χ^2/NDF : 6733285.0/85

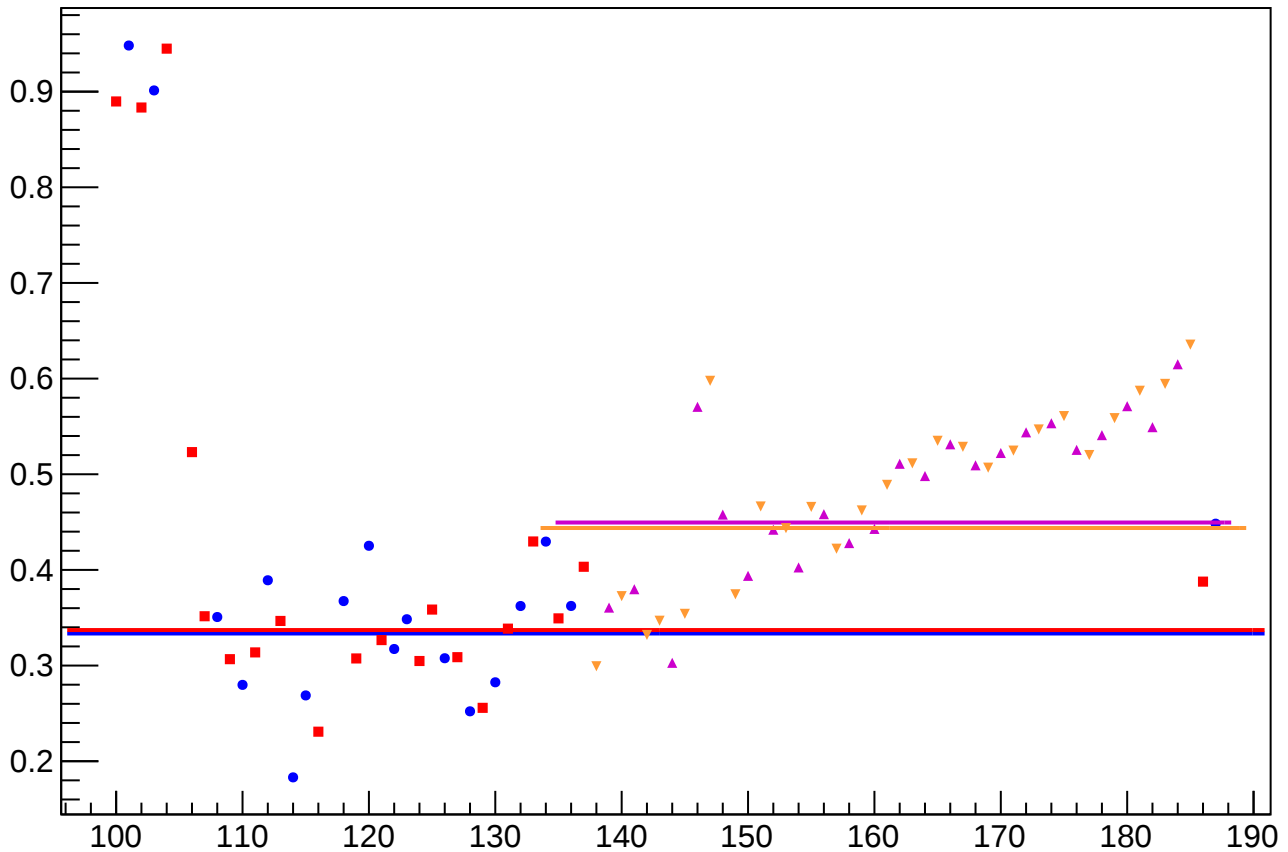
- sign 0.403 ± 0.000 χ^2/NDF : 3146376.6/42

yield_bcm_dg_ds_mean vs Slug



Right In: 144.046 $\pm$ 0.000	χ^2 /NDF: 3279469523.9/17	+ sign 145.598 $\pm$ 0.000	χ^2 /NDF: 3875029473.6/42
Left Out: 146.508 $\pm$ 0.000	χ^2 /NDF: 401248837.9/24	All: 145.296 $\pm$ 0.000	χ^2 /NDF: 10569597414.
Right Out: 143.733 $\pm$ 0.000	χ^2 /NDF: 5835517282.7/19	- sign 144.988 $\pm$ 0.000	χ^2 /NDF: 6669149781.6/42
Left In: 145.834 $\pm$ 0.000	χ^2 /NDF: 690172810.0/22		

yield_bcm_dg_ds_rms vs Slug



Right In: 0.334 ± 0.000 χ^2/NDF : 1306532.3/17

Left Out: 0.444 ± 0.000 χ^2/NDF : 1460383.7/24

Right Out: 0.337 ± 0.000 χ^2/NDF : 1181516.7/19

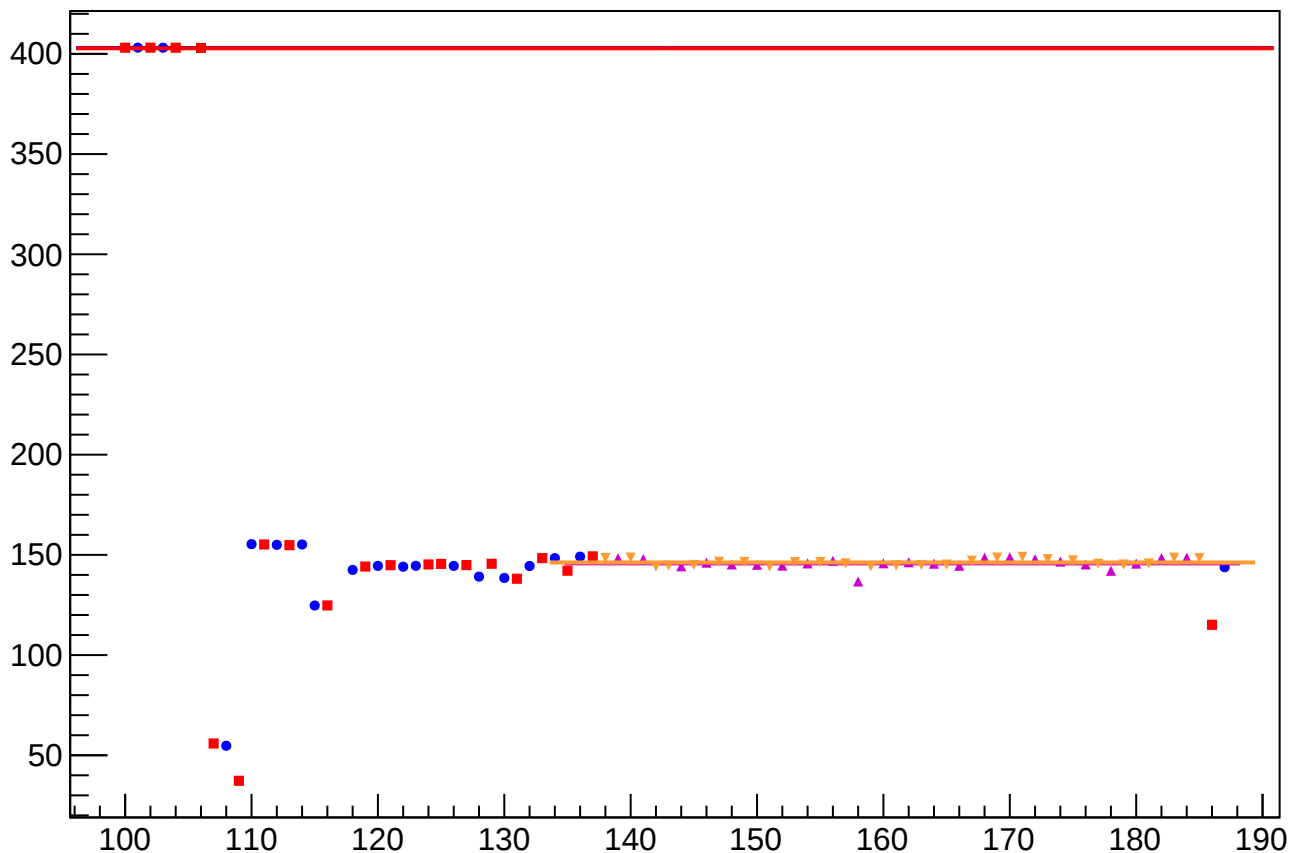
Left In: 0.450 ± 0.000 χ^2/NDF : 1092776.5/22

+ sign 0.403 ± 0.000 χ^2/NDF : 3546534.7/42

All: 0.404 ± 0.000 χ^2/NDF : 6642245.1/85

- sign 0.404 ± 0.000 χ^2/NDF : 3095516.9/42

yield_cav4bQ_mean vs Slug



Right In: 402.956+/-0.000 χ^2/NDF : 1110327882789.6/17

Left Out: 146.216+/-0.000 χ^2/NDF : 86042286.3/24

Right Out: 402.796+/-0.000 χ^2/NDF : 3129460217421.3/19

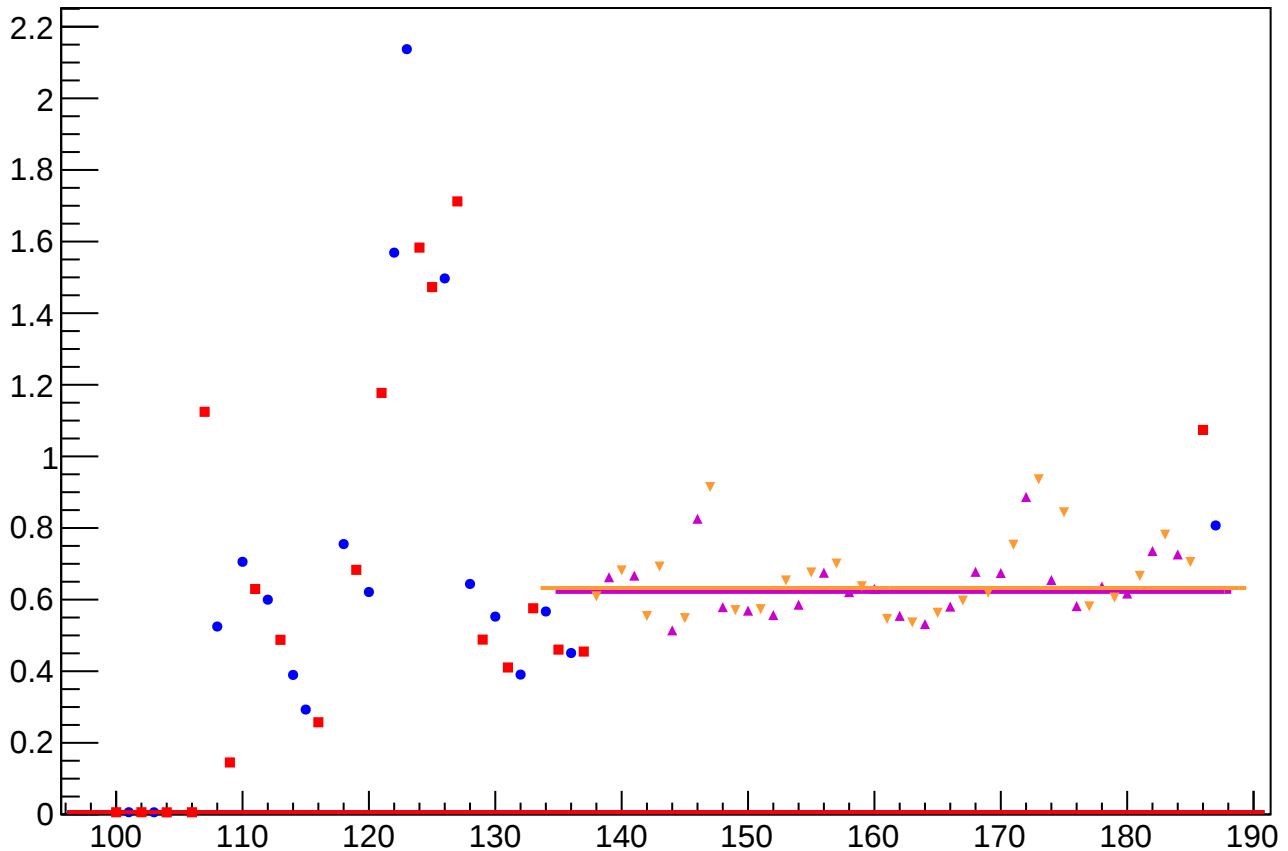
Left In: 145.755+/-0.000 χ^2/NDF : 206171532.0/22

+ sign 402.660+/-0.000 χ^2/NDF : 3471590850788.3

All: 402.596+/-0.000 χ^2/NDF : 893094920777

- sign 402.539+/-0.000 χ^2/NDF : 5459114742968.5

yield_cav4bQ_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 9363822.0/17

Left Out: 0.632+/-0.000 χ^2/NDF : 613604.5/24

Right Out: 0.006+/-0.000 χ^2/NDF : 9811287.7/19

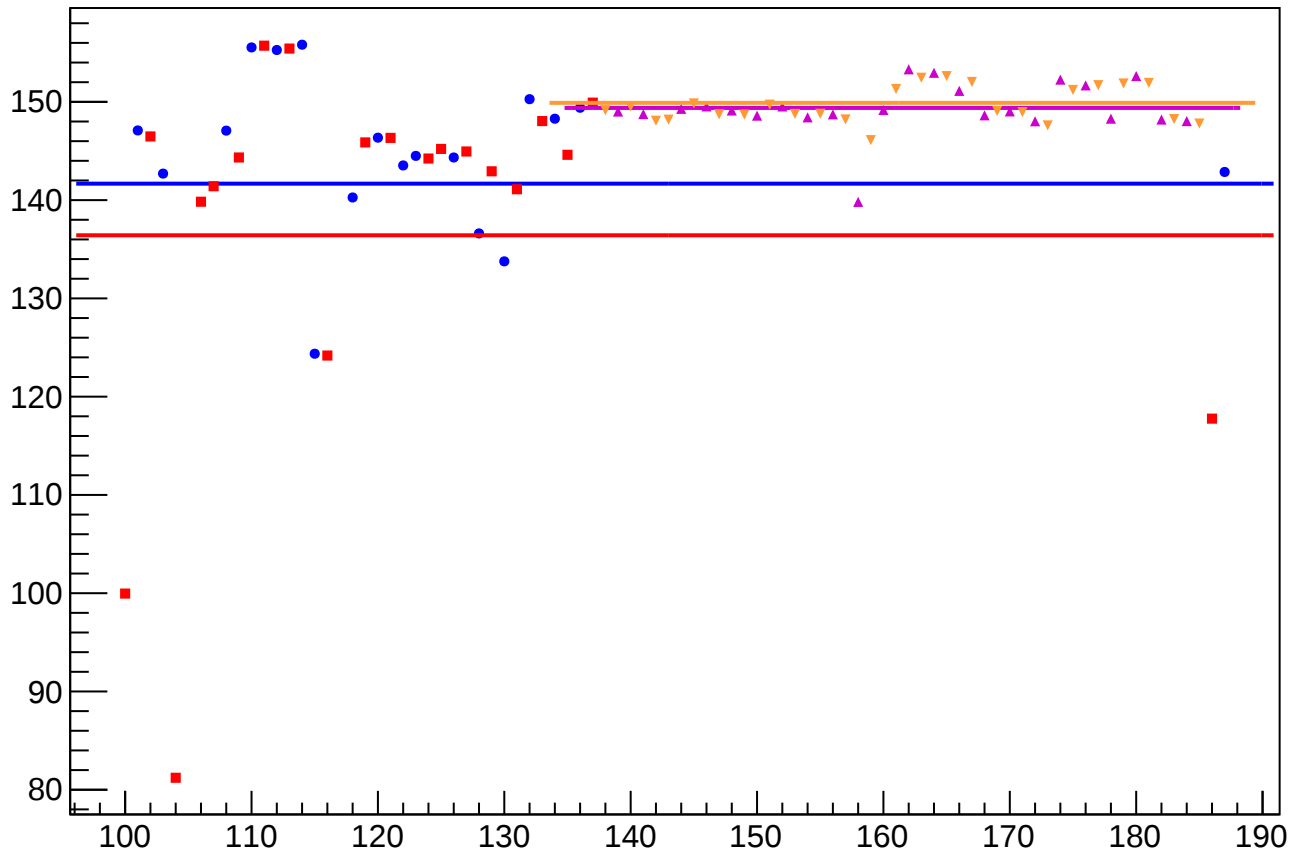
Left In: 0.622+/-0.000 χ^2/NDF : 399965.3/22

+ sign 0.007+/-0.000 χ^2/NDF : 38058338.6/42

All: 0.007+/-0.000 χ^2/NDF : 74963578.2/85

- sign 0.007+/-0.000 χ^2/NDF : 36904823.0/42

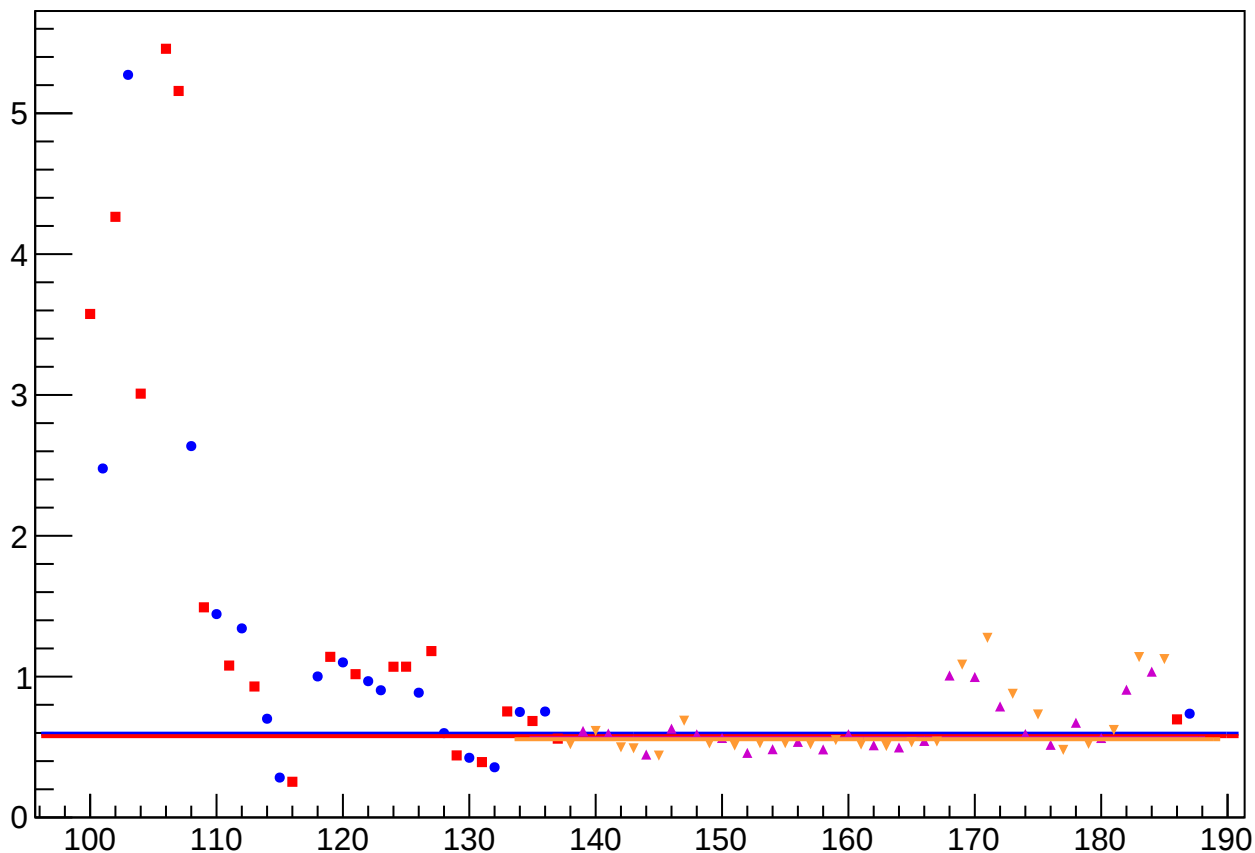
yield_cav4cQ_mean vs Slug



Right In: 141.676 ± 0.000 χ^2/NDF : 979298915.1/17
 Left Out: 149.900 ± 0.000 χ^2/NDF : 162845622.6/24
 Right Out: 136.422 ± 0.000 χ^2/NDF : 1552130628.5/19
 Left In: 149.382 ± 0.000 χ^2/NDF : 434657827.5/22

+ sign 148.509 ± 0.000 χ^2/NDF : 1722619777.3/42
 All: 147.729 ± 0.000 χ^2/NDF : 5298445156.4
 - sign 146.913 ± 0.000 χ^2/NDF : 3499734711.1/42

yield_cav4cQ_rms vs Slug



Right In: 0.595 $\pm$ 0.000 χ^2 /NDF: 3528332.0/17

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.577 $\pm$ 0.000 χ^2 /NDF: 4664067.9/19

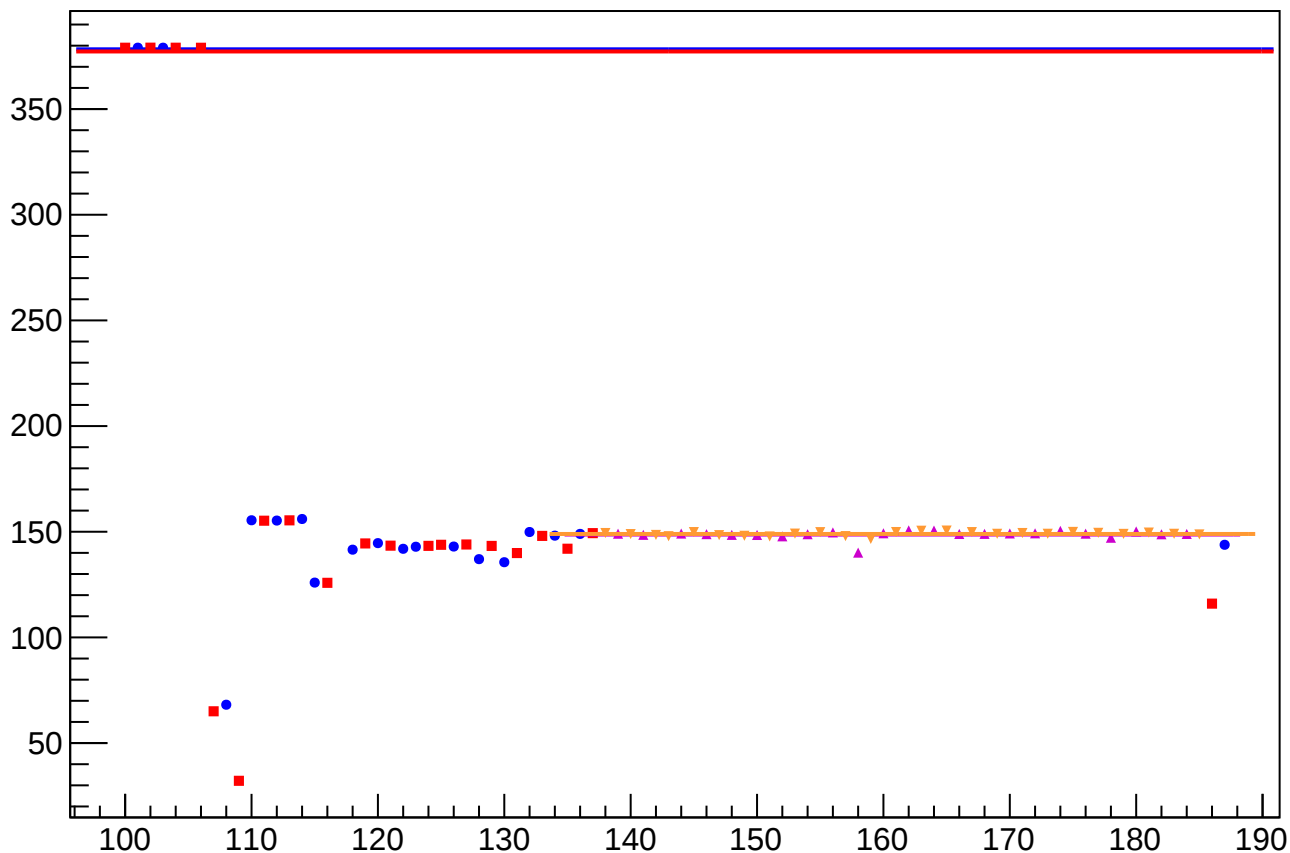
Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

+ sign 0.562 $\pm$ 0.000 χ^2 /NDF: 5328734.9/42

All: 0.563 $\pm$ 0.000 χ^2 /NDF: 11303074.2/85

- sign 0.565 $\pm$ 0.000 χ^2 /NDF: 5973949.0/42

yield_cav4dQ_mean vs Slug



Right In: 378.277+/-0.000 χ^2/NDF : 2525418143225.7/17

Left Out: 148.944+/-0.000 χ^2/NDF : 63976941.3/24

Right Out: 377.258+/-0.000 χ^2/NDF : 8402164295905.2/19

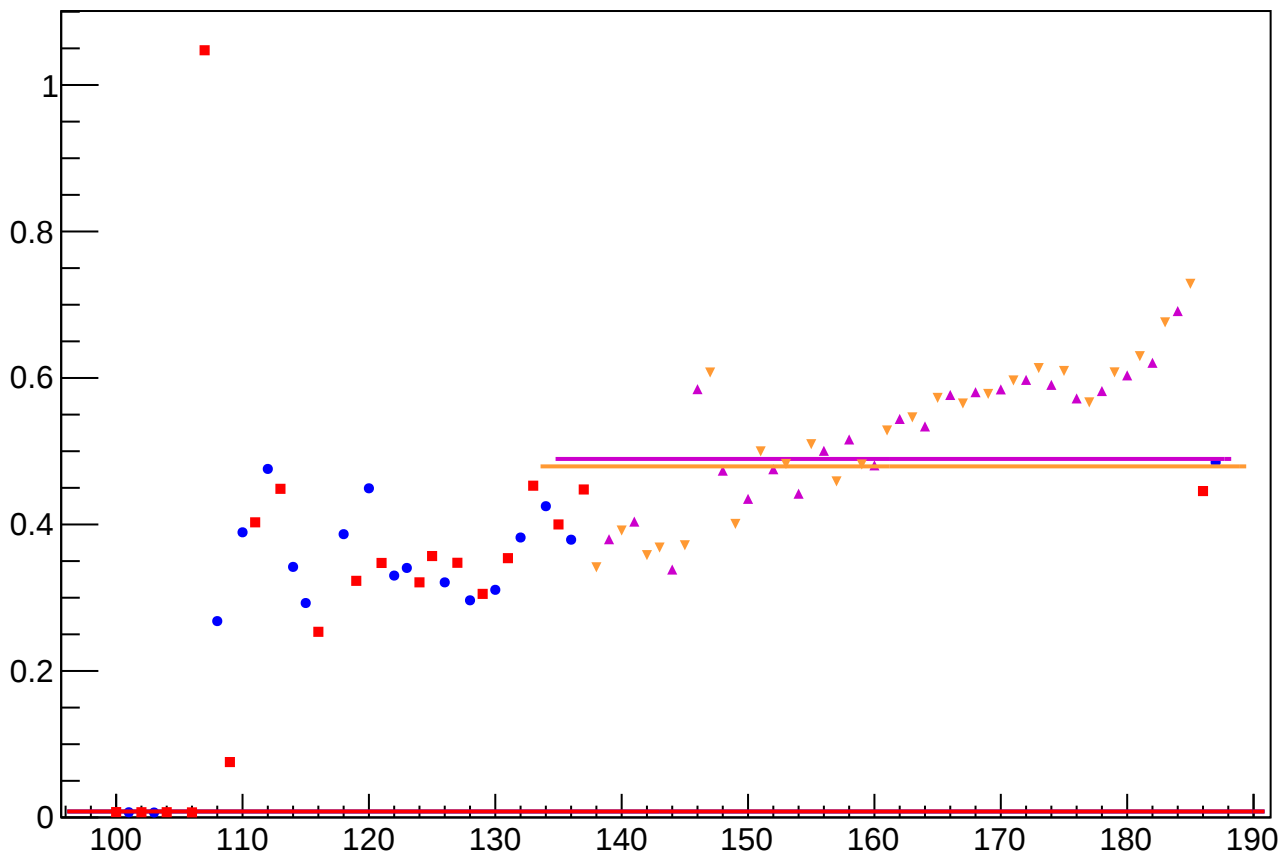
Left In: 148.672+/-0.000 χ^2/NDF : 252846428.3/22

+ sign 376.998+/-0.000 χ^2/NDF : 6432425213946.3

All: 376.591+/-0.000 χ^2/NDF : 183967968075

- sign 376.233+/-0.000 χ^2/NDF : 11960207002443.0

yield_cav4dQ_rms vs Slug



Right In: 0.008+/-0.000 χ^2/NDF : 10114218.8/17

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 10192547.3/19

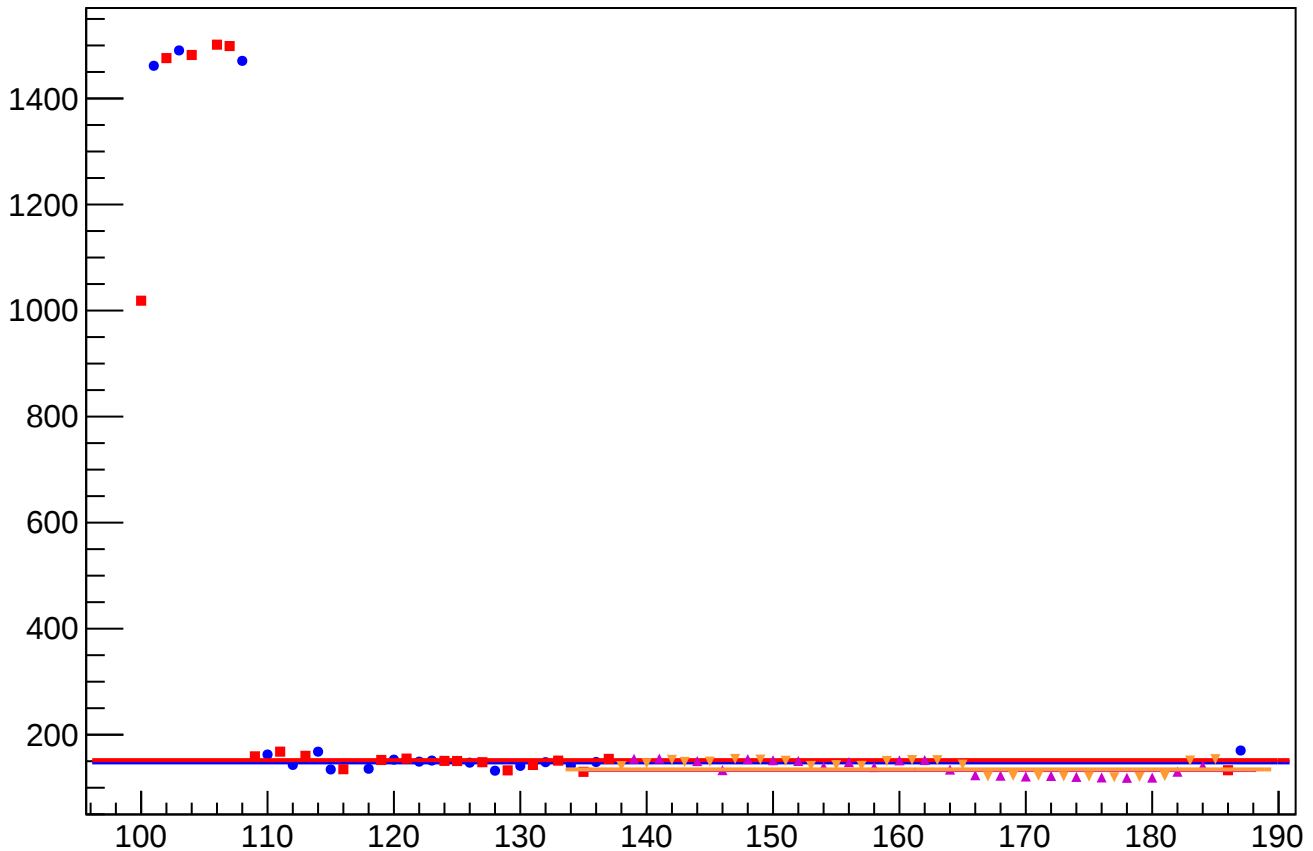
Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

+ sign 0.011+/-0.000 χ^2/NDF : 44612713.2/42

All: 0.011+/-0.000 χ^2/NDF : 87425789.2/85

- sign 0.010+/-0.000 χ^2/NDF : 42810610.0/42

yield_bcm0l02_mean vs Slug



Right In: 147.767+/-0.000 χ^2/NDF : 24468065806.1/17

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 152.060+/-0.000 χ^2/NDF : 33959063459.9/19

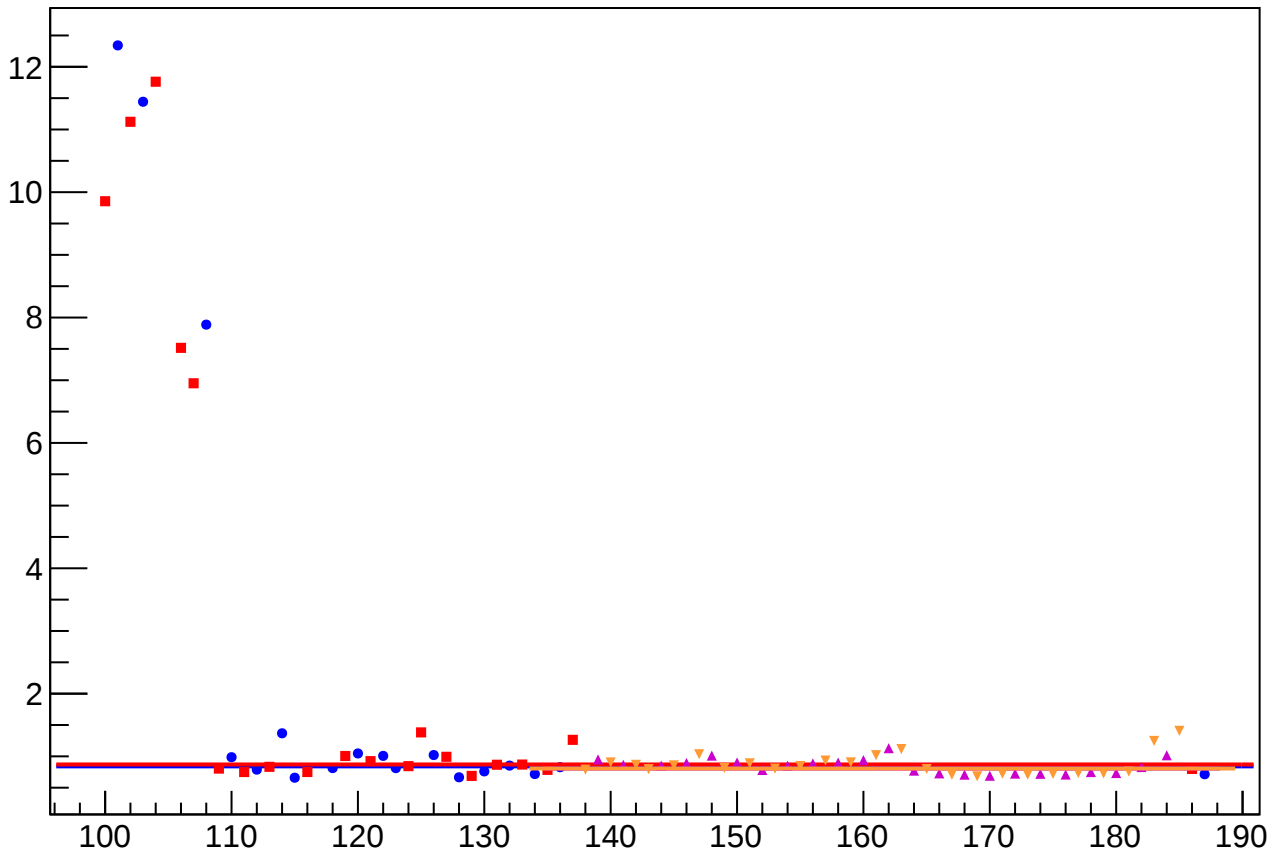
Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

+ sign 137.063+/-0.000 χ^2/NDF : 29631350609.3/42

All: 137.085+/-0.000 χ^2/NDF : 69499341772.0

- sign 137.107+/-0.000 χ^2/NDF : 39867963375.0/42

yield_bcm0l02_rms vs Slug



Right In: 0.840 ± 0.000 χ^2/NDF : 2666350.7/17

Left Out: 0.806 ± 0.000 χ^2/NDF : 690578.5/24

Right Out: 0.870 ± 0.000 χ^2/NDF : 2831470.9/19

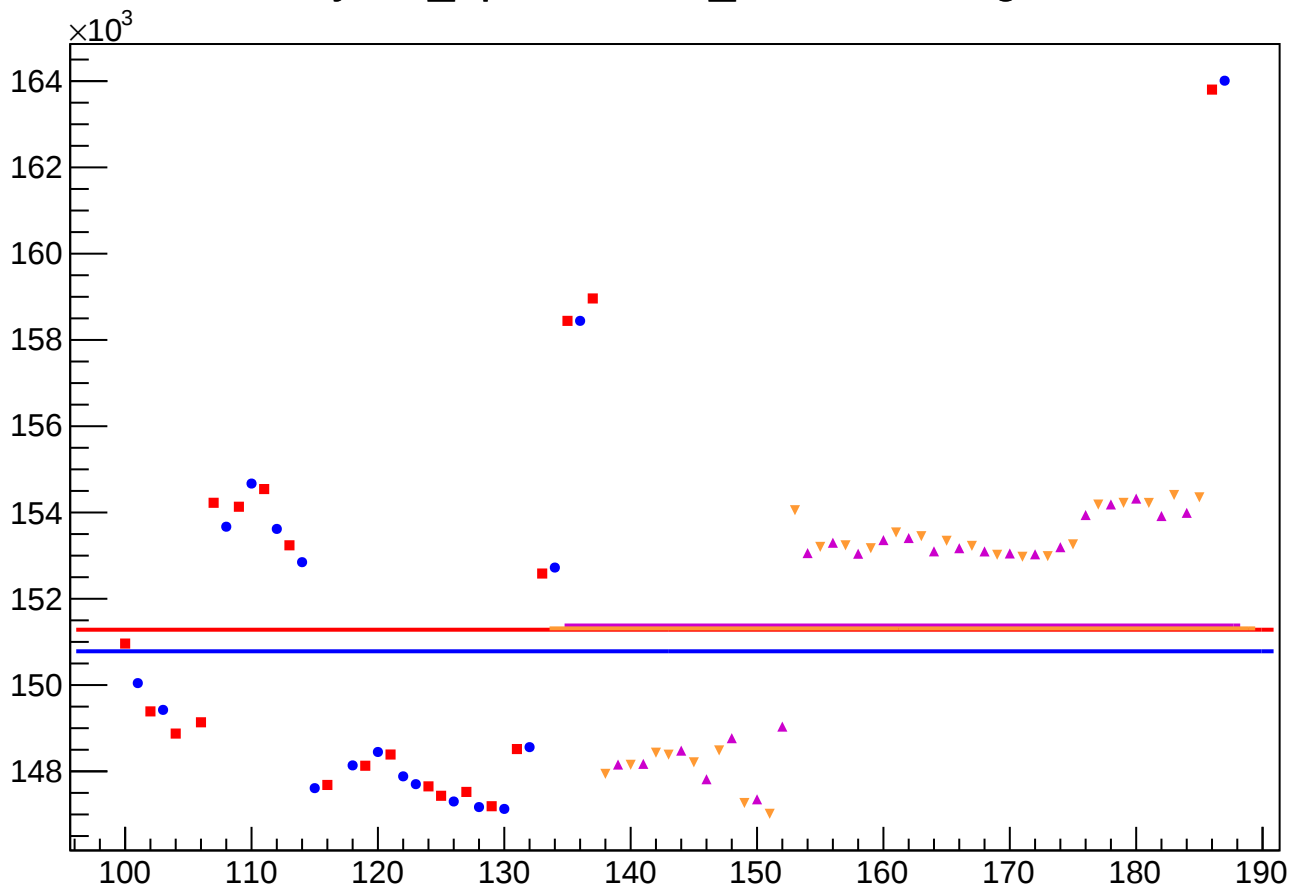
Left In: 0.805 ± 0.000 χ^2/NDF : 480510.8/22

+ sign 0.813 ± 0.000 χ^2/NDF : 3367356.2/42

All: 0.815 ± 0.000 χ^2/NDF : 6719527.9/85

- sign 0.818 ± 0.000 χ^2/NDF : 3351333.1/42

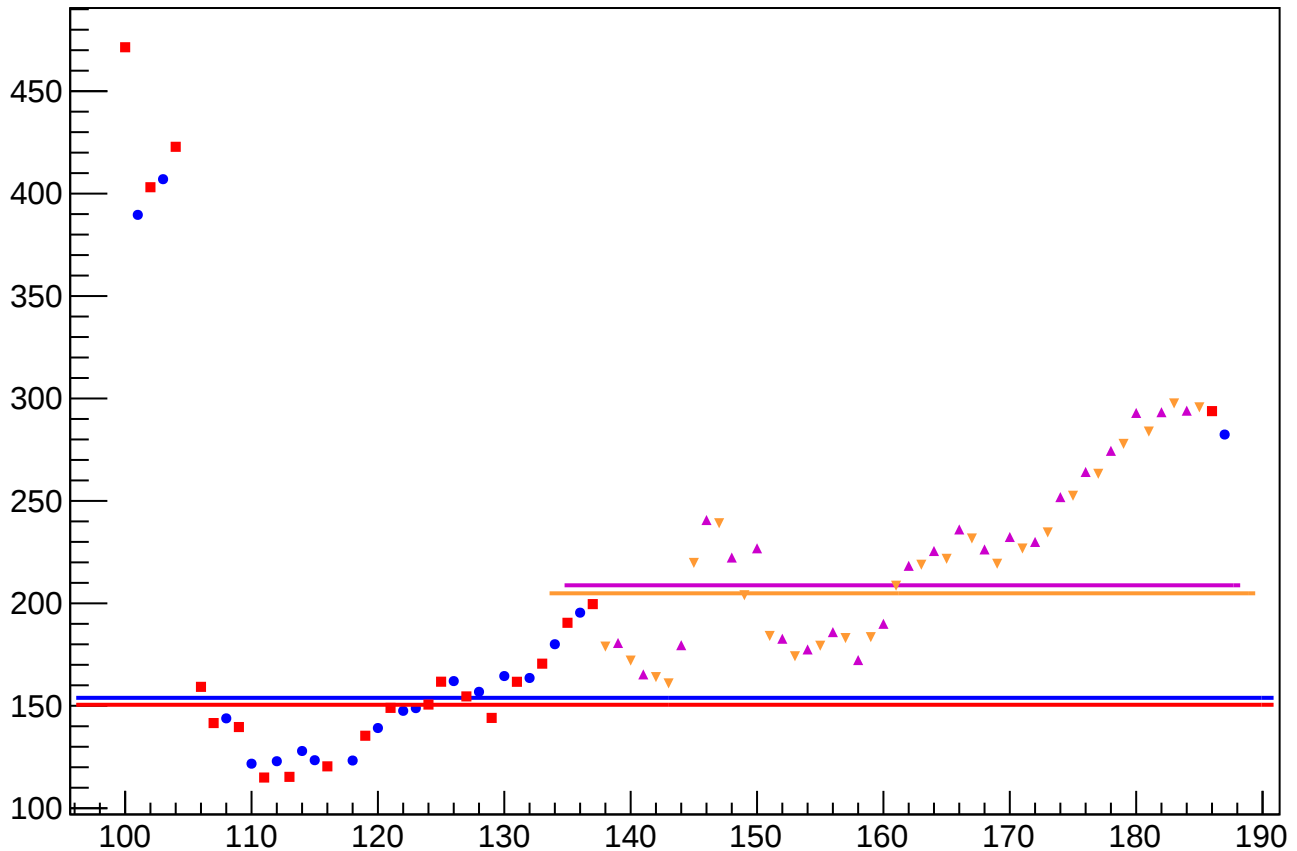
yield_bpm0i01WS_mean vs Slug



Right In: 150782.780 $\pm$ 0.063 χ^2 /NDF: 3632312138.3/17
 Left Out: 151313.284 $\pm$ 0.049 χ^2 /NDF: 3153768134.8/24
 Right Out: 151282.628 $\pm$ 0.059 χ^2 /NDF: 3997866554.1/19
 Left In: 151380.236 $\pm$ 0.051 χ^2 /NDF: 2363895785.3/22

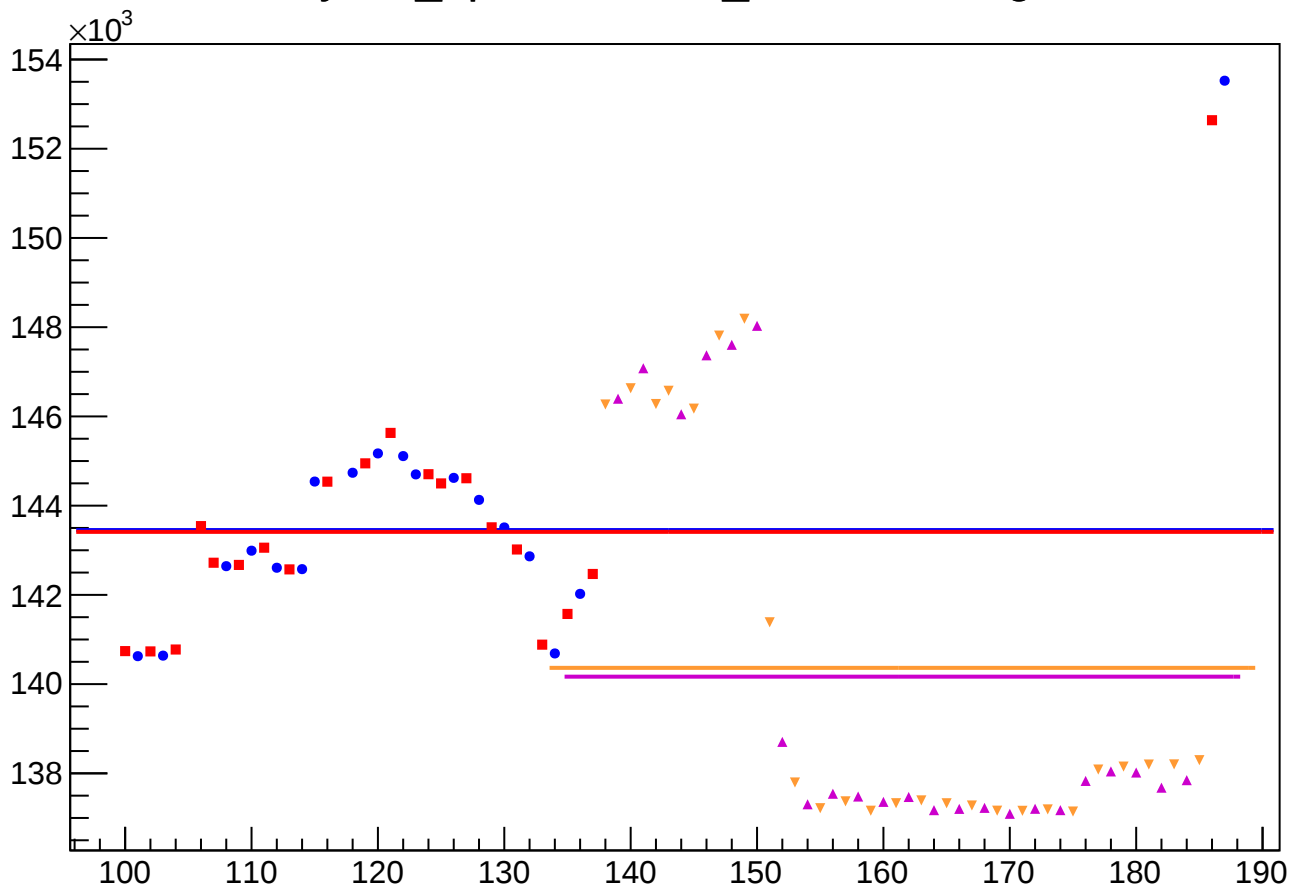
+ sign 151114.375 $\pm$ 0.038 χ^2 /NDF: 6830601749.7
 All: 151225.735 $\pm$ 0.027 χ^2 /NDF: 132107665
 - sign 151338.519 $\pm$ 0.039 χ^2 /NDF: 6363316310.1/

yield_bpm0i01WS_rms vs Slug



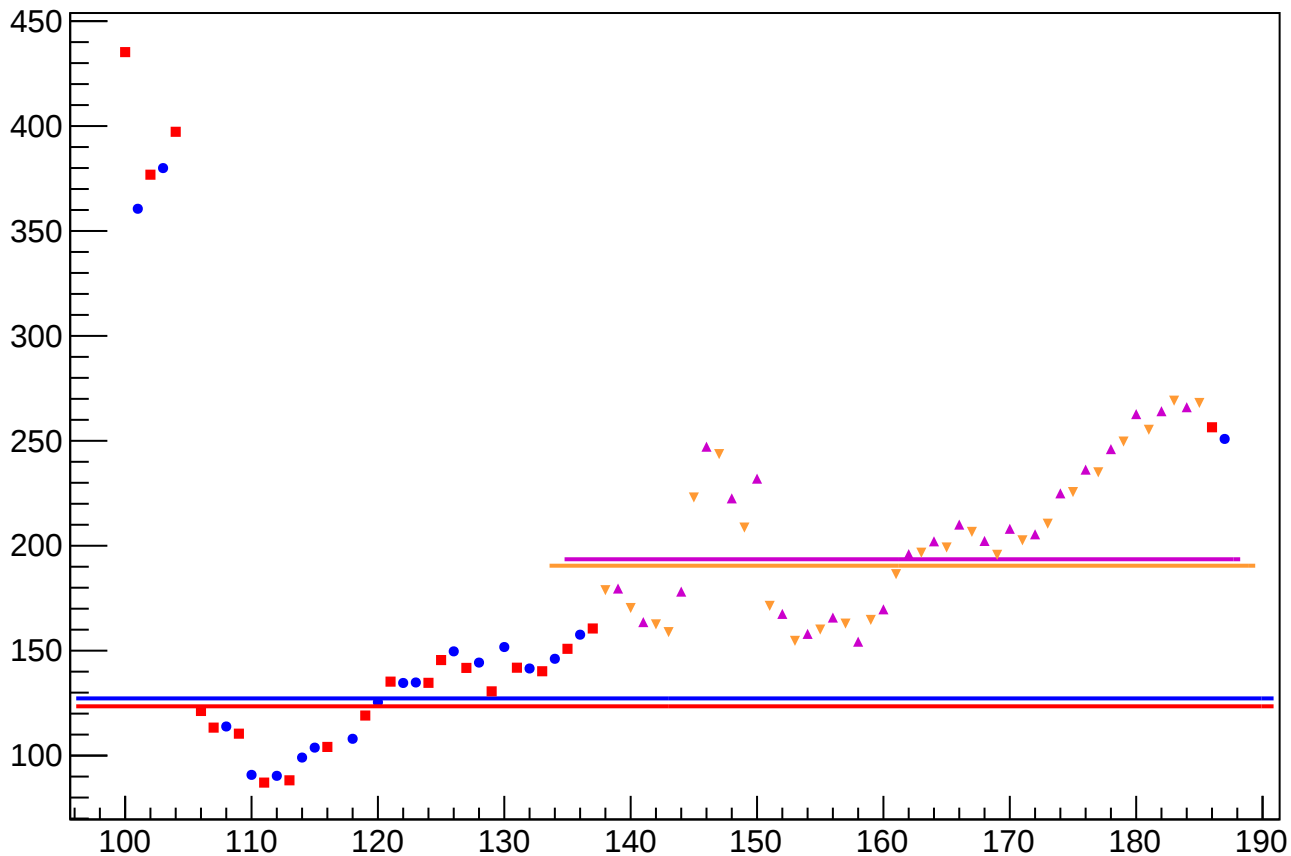
Right In: 153.882 $\pm$ 0.044	χ^2 /NDF: 1217246.3/17	+ sign 185.771 $\pm$ 0.027	χ^2 /NDF: 3097107.6/42
Left Out: 204.900 $\pm$ 0.034	χ^2 /NDF: 1056380.8/24	All: 184.835 $\pm$ 0.019	χ^2 /NDF: 6583513.1/85
Right Out: 150.493 $\pm$ 0.042	χ^2 /NDF: 1372589.5/19	- sign 183.887 $\pm$ 0.027	χ^2 /NDF: 3484025.3/42
Left In: 208.813 $\pm$ 0.036	χ^2 /NDF: 1001936.6/22		

yield_bpm0i01aWS_mean vs Slug



Right In: 143452.963 $\pm$ 0.053	χ^2 /NDF: 764760007.2/17	+ sign 141676.414 $\pm$ 0.034	χ^2 /NDF: 11423599054.
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	All: 141711.078 $\pm$ 0.024	χ^2 /NDF: 228357315
Right Out: 143412.651 $\pm$ 0.049	χ^2 /NDF: 1106513459.0/19	- sign 141745.169 $\pm$ 0.034	χ^2 /NDF: 11410106078.9
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22		

yield_bpm0i01aWS_rms vs Slug



Right In: 127.252+/-0.037 χ^2/NDF : 1515784.1/17

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 123.480+/-0.034 χ^2/NDF : 1665440.9/19

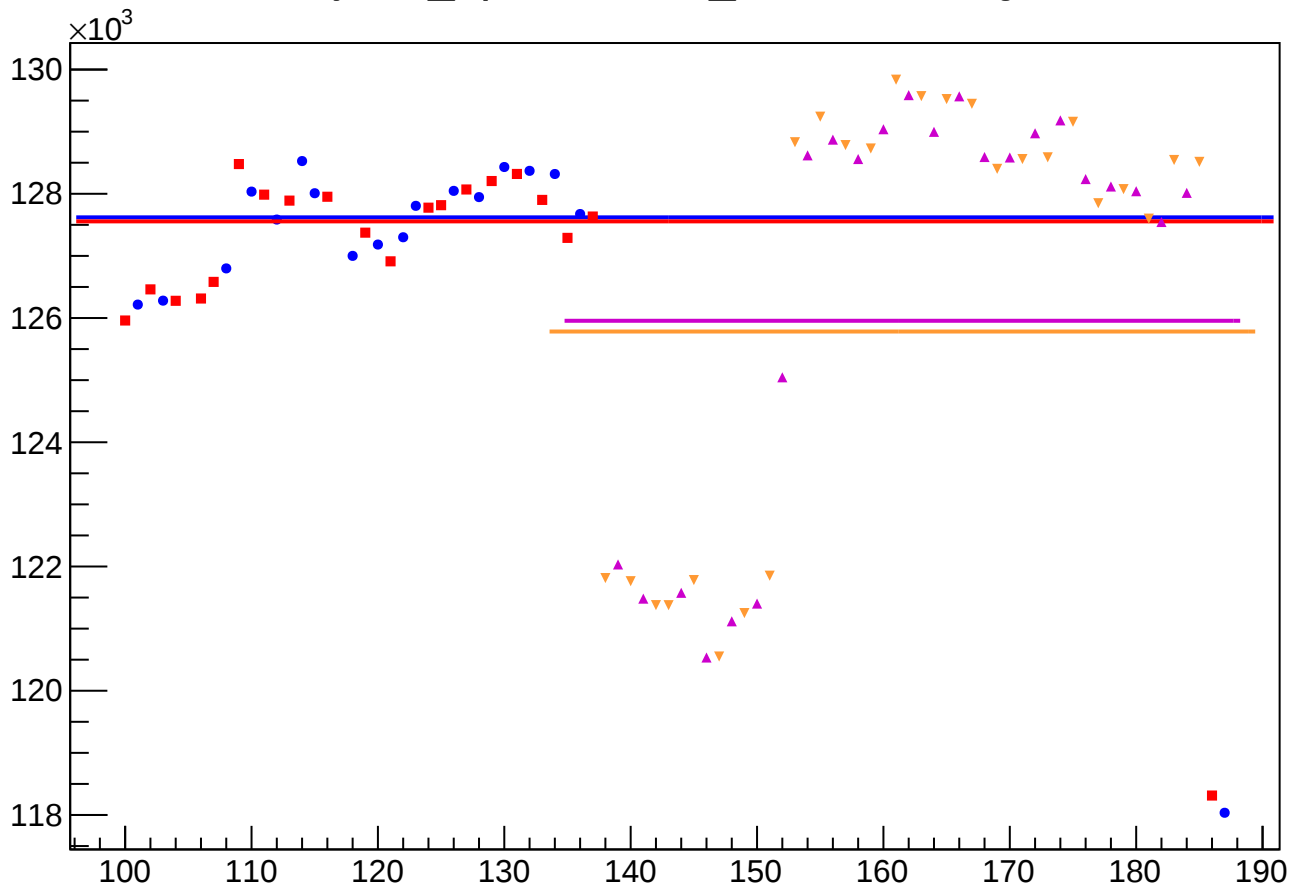
Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

+ sign 163.625+/-0.024 χ^2/NDF : 4127458.1/42

All: 161.536+/-0.017 χ^2/NDF : 8892548.4/85

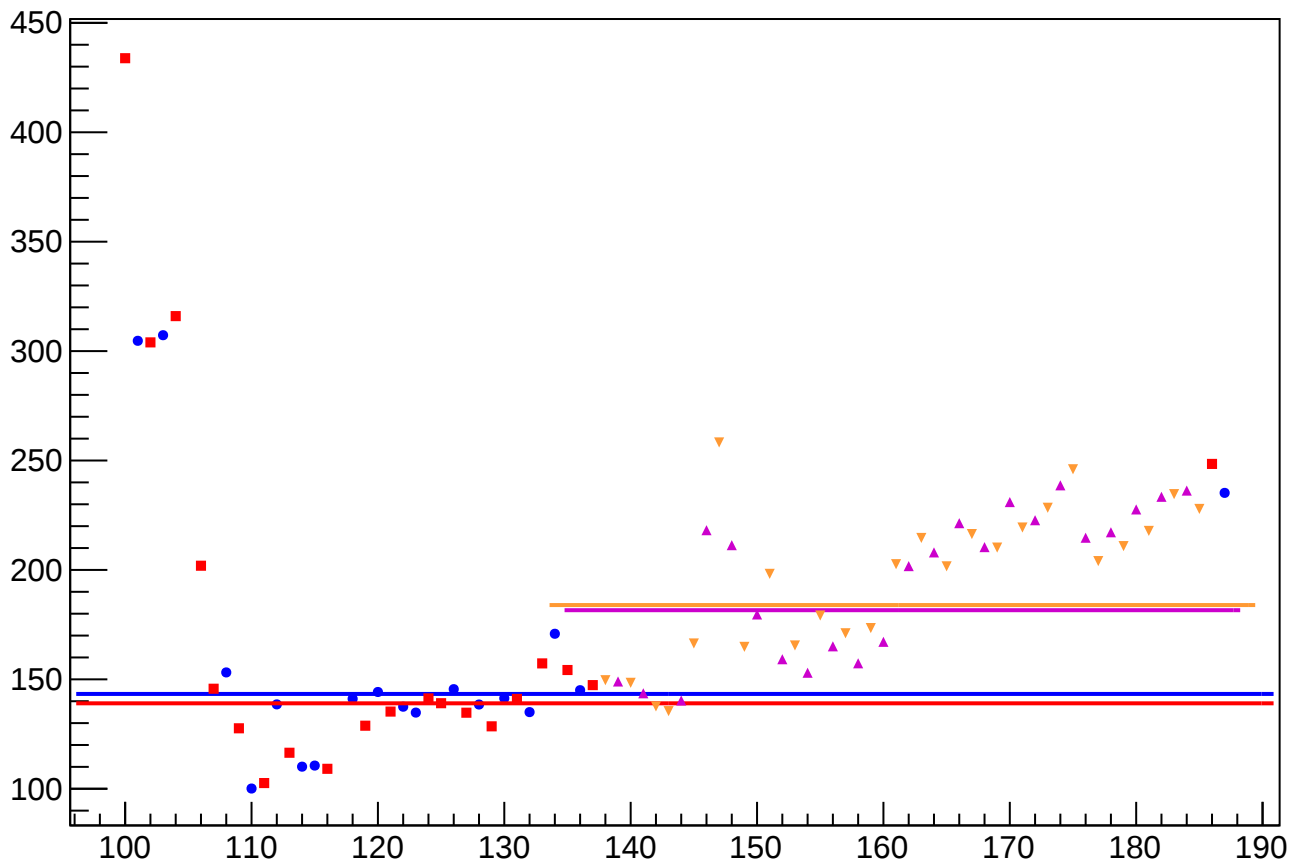
- sign 159.483+/-0.024 χ^2/NDF : 4750382.3/42

yield_bpm0l01WS_mean vs Slug



Right In: 127620.559 $\pm$ 0.058	χ^2 /NDF: 337524570.6/17	+ sign 126455.284 $\pm$ 0.035	χ^2 /NDF: 7705593240.7
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	All: 126532.464 $\pm$ 0.025	χ^2 /NDF: 146839233
Right Out: 127555.886 $\pm$ 0.054	χ^2 /NDF: 645256687.1/19	- sign 126607.274 $\pm$ 0.034	χ^2 /NDF: 6968775492.5/
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22		

yield_bpm0l01WS_rms vs Slug



Right In: 143.329 $\pm$ 0.041 χ^2/NDF : 880315.2/17

Left Out: 183.947 $\pm$ 0.031 χ^2/NDF : 1123194.0/24

Right Out: 139.043 $\pm$ 0.038 χ^2/NDF : 1105720.1/19

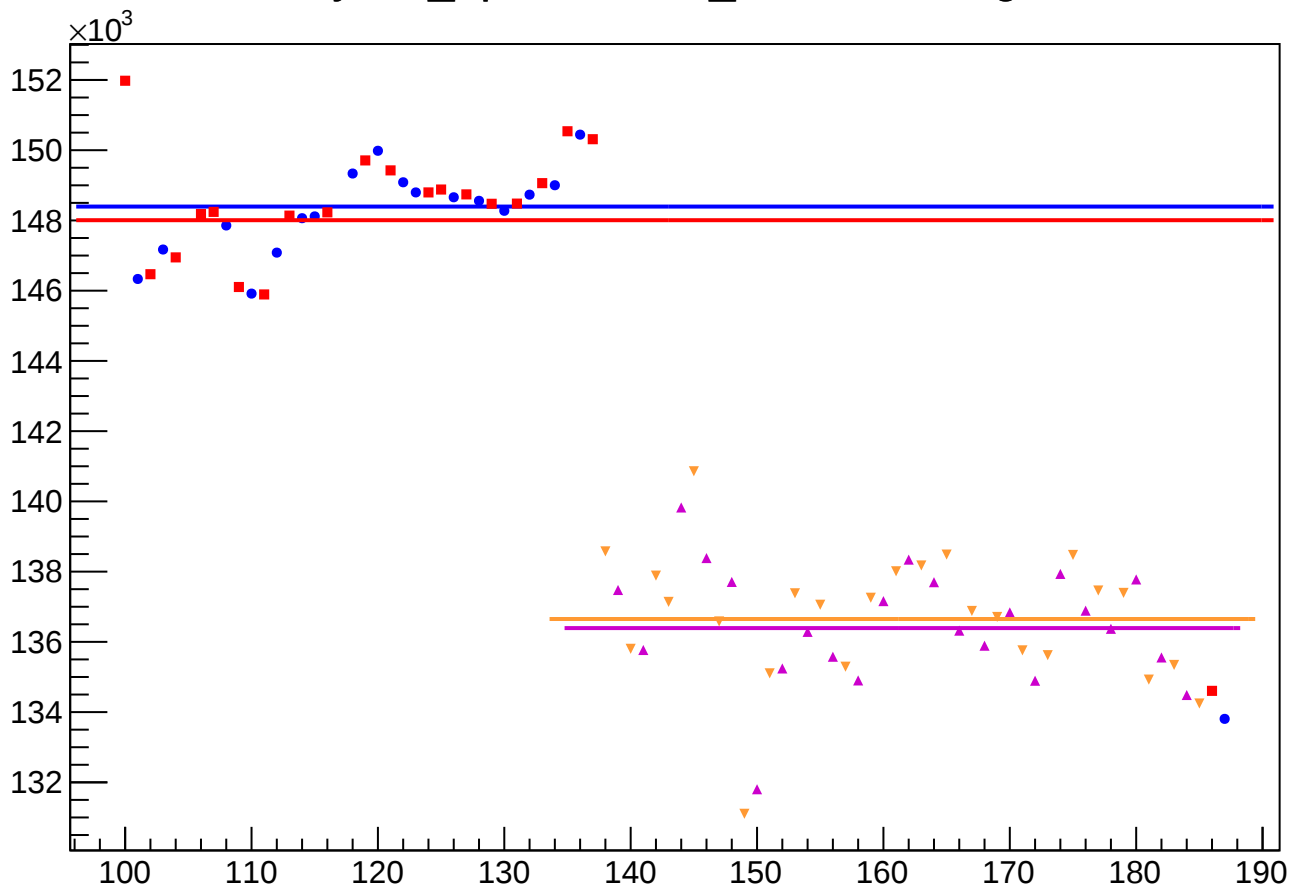
Left In: 181.596 $\pm$ 0.032 χ^2/NDF : 1103524.3/22

+ sign 169.083 $\pm$ 0.025 χ^2/NDF : 2627084.8/42

All: 166.638 $\pm$ 0.017 χ^2/NDF : 5590088.9/85

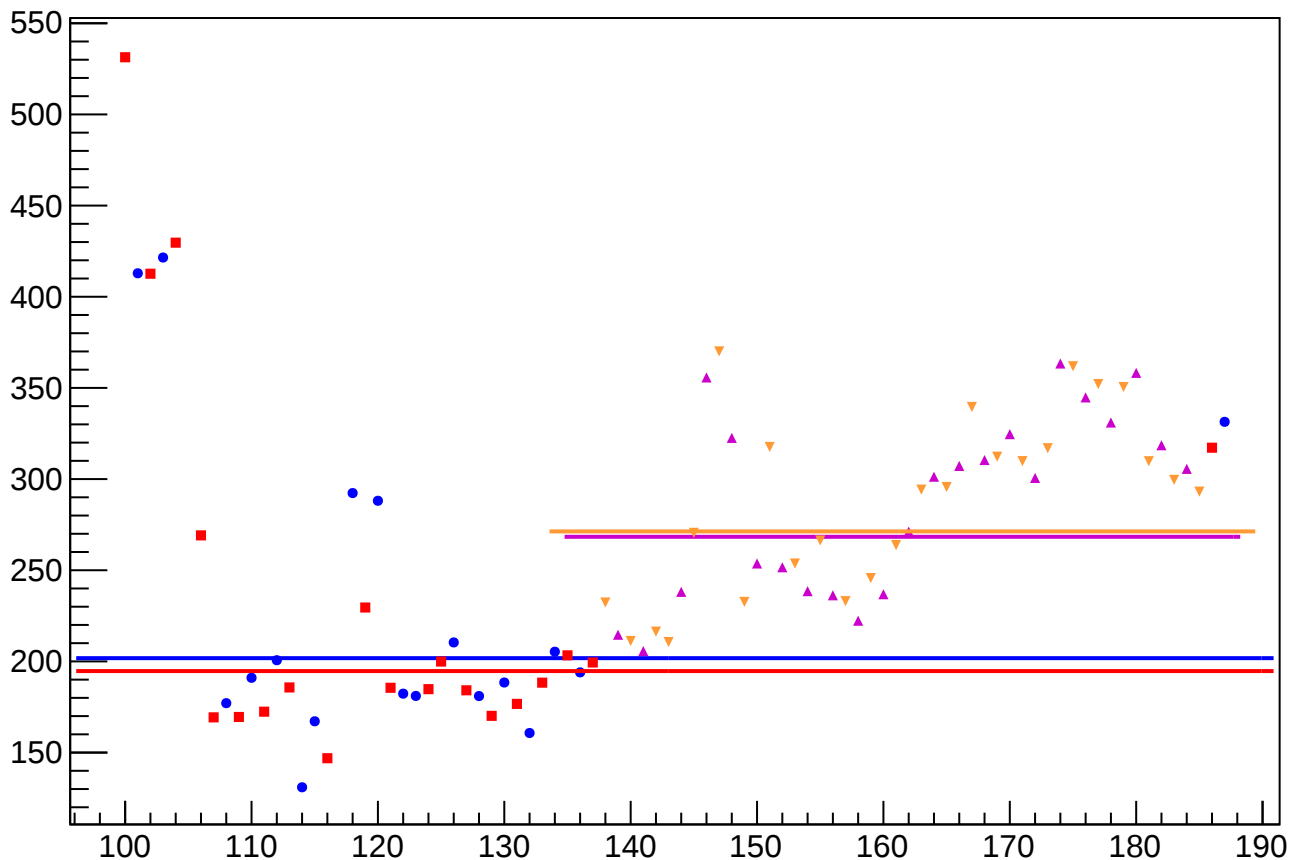
- sign 164.268 $\pm$ 0.024 χ^2/NDF : 2943822.7/42

yield_bpm0l02WS_mean vs Slug



Right In: 148394.980 $\pm$ 0.082	χ^2 /NDF: 503074087.5/17	+ sign 141157.917 $\pm$ 0.051	χ^2 /NDF: 14107059377.8
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	All: 141287.010 $\pm$ 0.036	χ^2 /NDF: 291888492
Right Out: 148006.736 $\pm$ 0.076	χ^2 /NDF: 971991863.5/19	- sign 141410.965 $\pm$ 0.050	χ^2 /NDF: 15069097325.7
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22		

yield_bpm0l02WS_rms vs Slug



Right In: 201.782 $\pm$ 0.058 χ^2 /NDF: 981737.8/17

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 194.702 $\pm$ 0.053 χ^2 /NDF: 958812.2/19

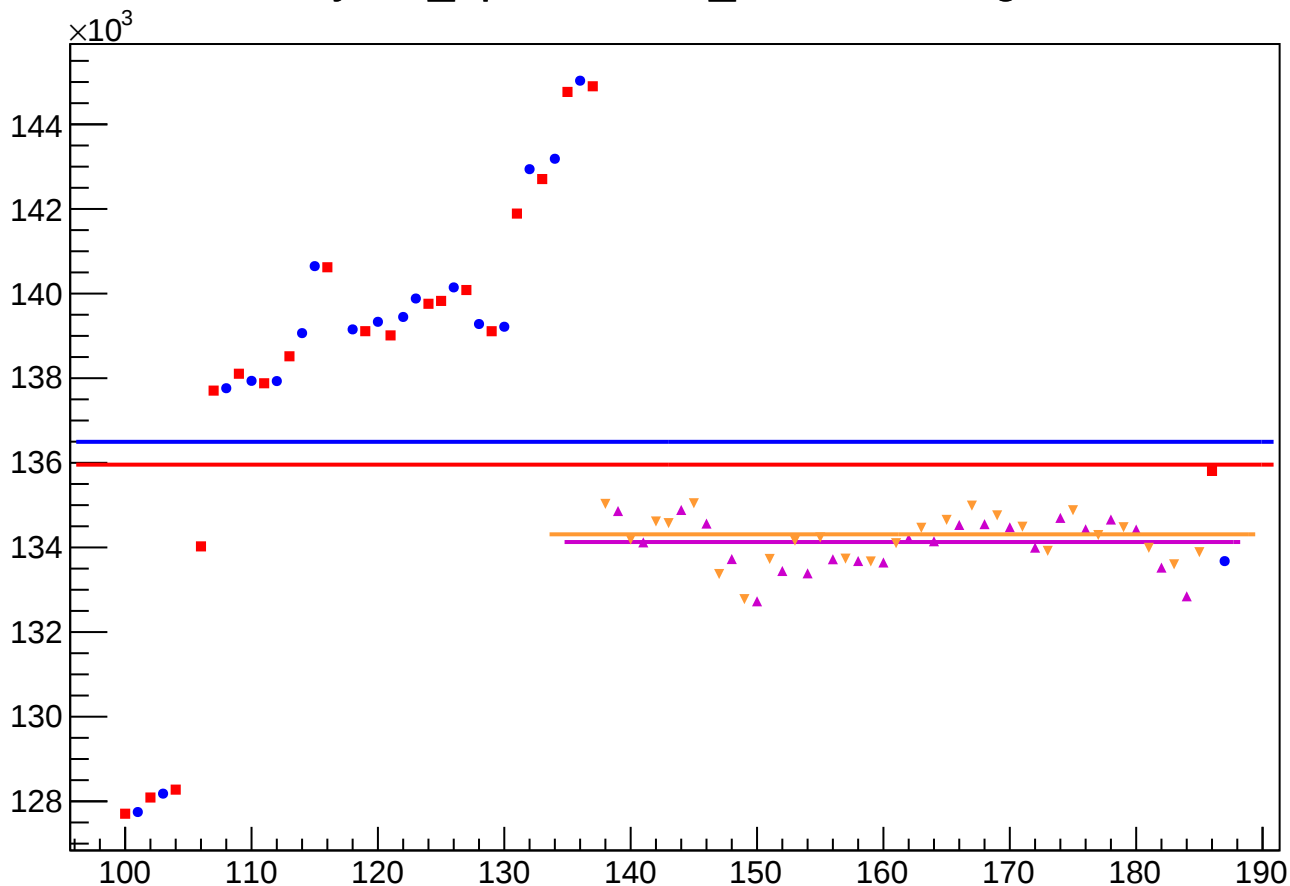
Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

+ sign 244.618 $\pm$ 0.036 χ^2 /NDF: 2934232.1/42

All: 240.488 $\pm$ 0.025 χ^2 /NDF: 6073404.4/85

- sign 236.522 $\pm$ 0.035 χ^2 /NDF: 3113186.3/42

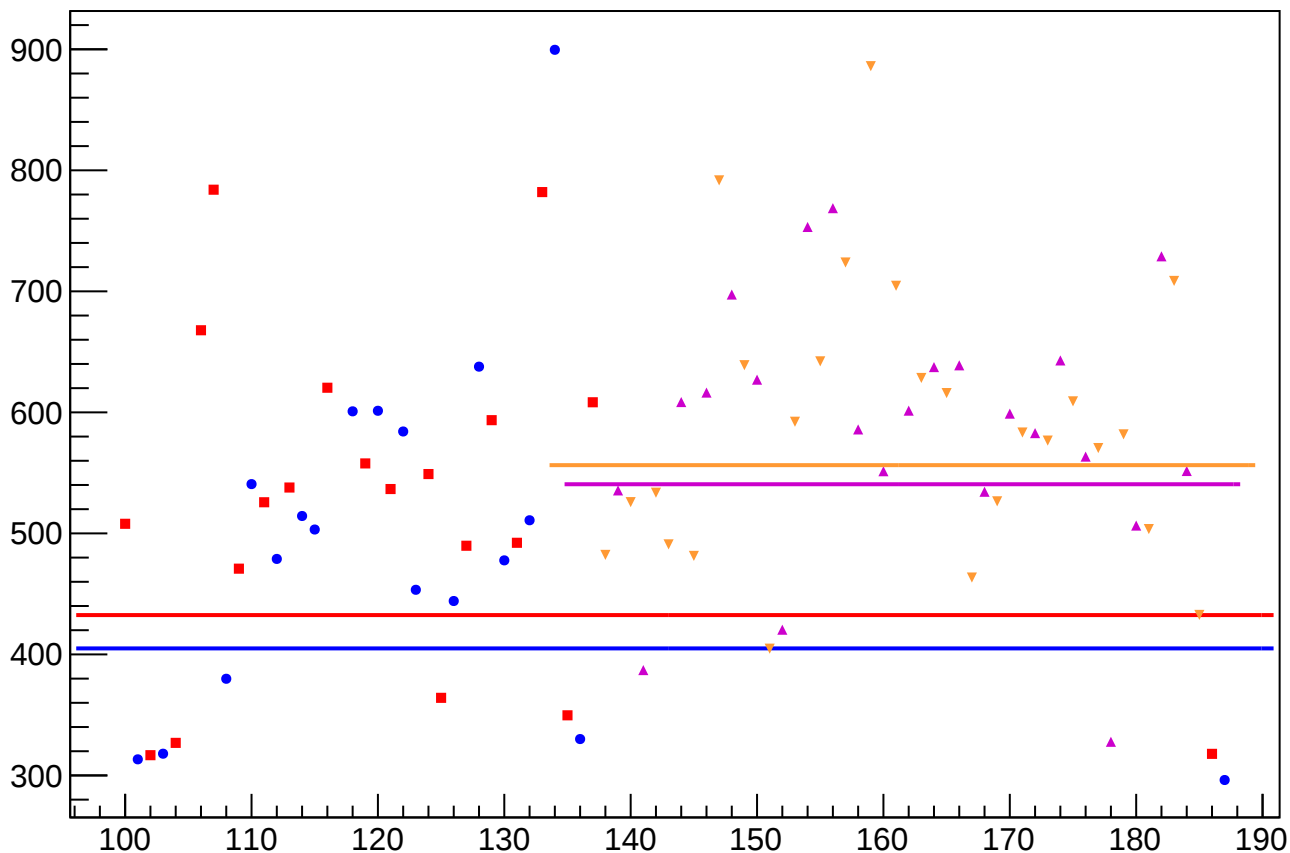
yield_bpm0l03WS_mean vs Slug



Right In: 136496.352 ± 0.169 $\chi^2/\text{NDF}: 1502959714.0/17$
 Left Out: 134310.250 ± 0.139 $\chi^2/\text{NDF}: 15518632.9/24$
 Right Out: 135956.953 ± 0.175 $\chi^2/\text{NDF}: 1080883657.8/19$
 Left In: 134128.172 ± 0.142 $\chi^2/\text{NDF}: 15533736.2/22$

+ sign 135189.746 ± 0.107 $\chi^2/\text{NDF}: 1618628591.0/17$
 All: 135027.002 ± 0.077 $\chi^2/\text{NDF}: 278569832.0/17$
 - sign 134854.650 ± 0.110 $\chi^2/\text{NDF}: 1162316975.5/17$

yield_bpm0l03WS_rms vs Slug



Right In: 404.959+/-0.119 χ^2/NDF : 859062.5/17

Left Out: 556.381+/-0.098 χ^2/NDF :1002064.0/24

Right Out: 432.495+/-0.124 χ^2/NDF : 997356.9/19

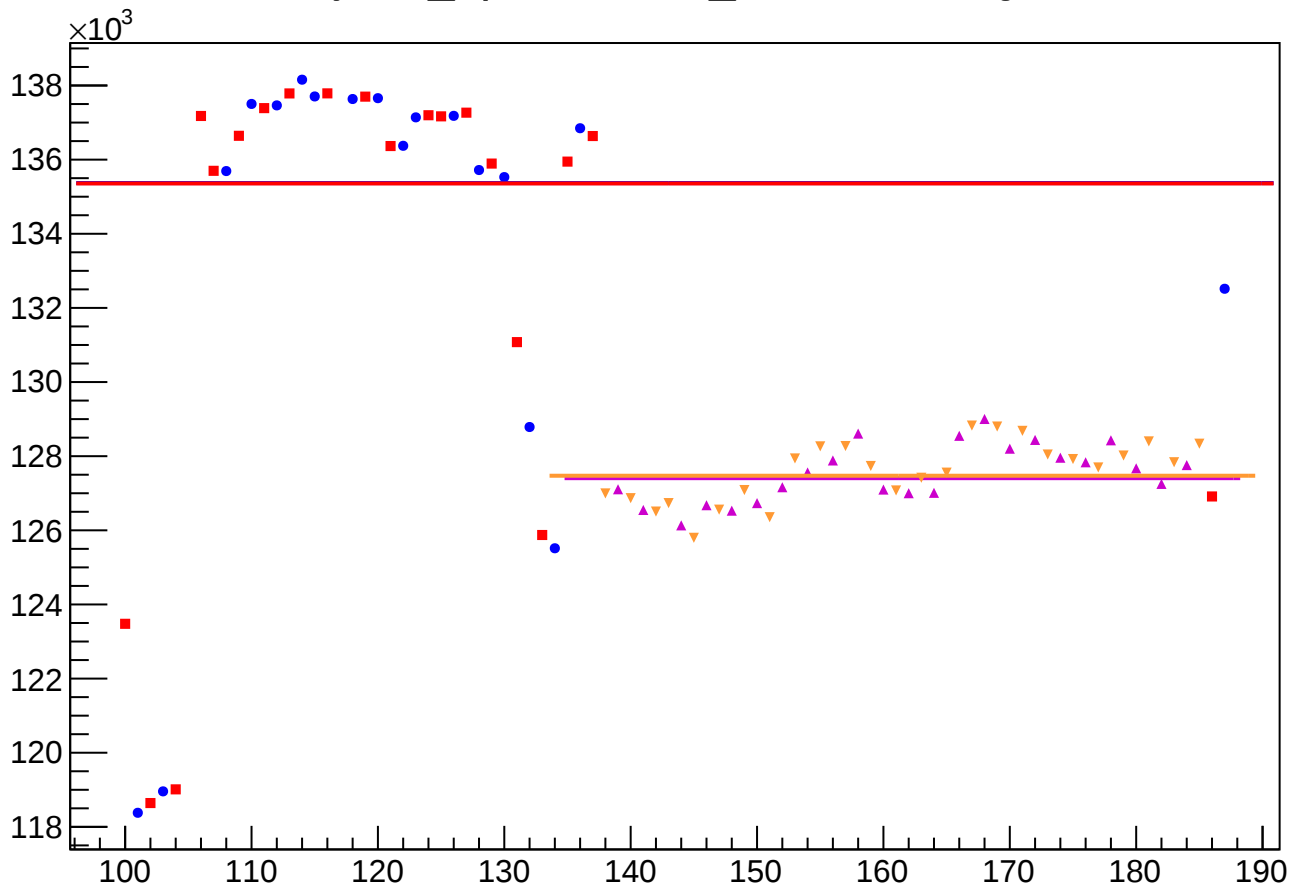
Left In: 540.607+/-0.100 χ^2/NDF :1409015.2/22

+ sign 495.462+/-0.076 χ^2/NDF : 2822124.1/42

All: 496.530+/-0.054 χ^2/NDF : 5689515.3/85

- sign 497.660+/-0.078 χ^2/NDF : 2866982.4/42

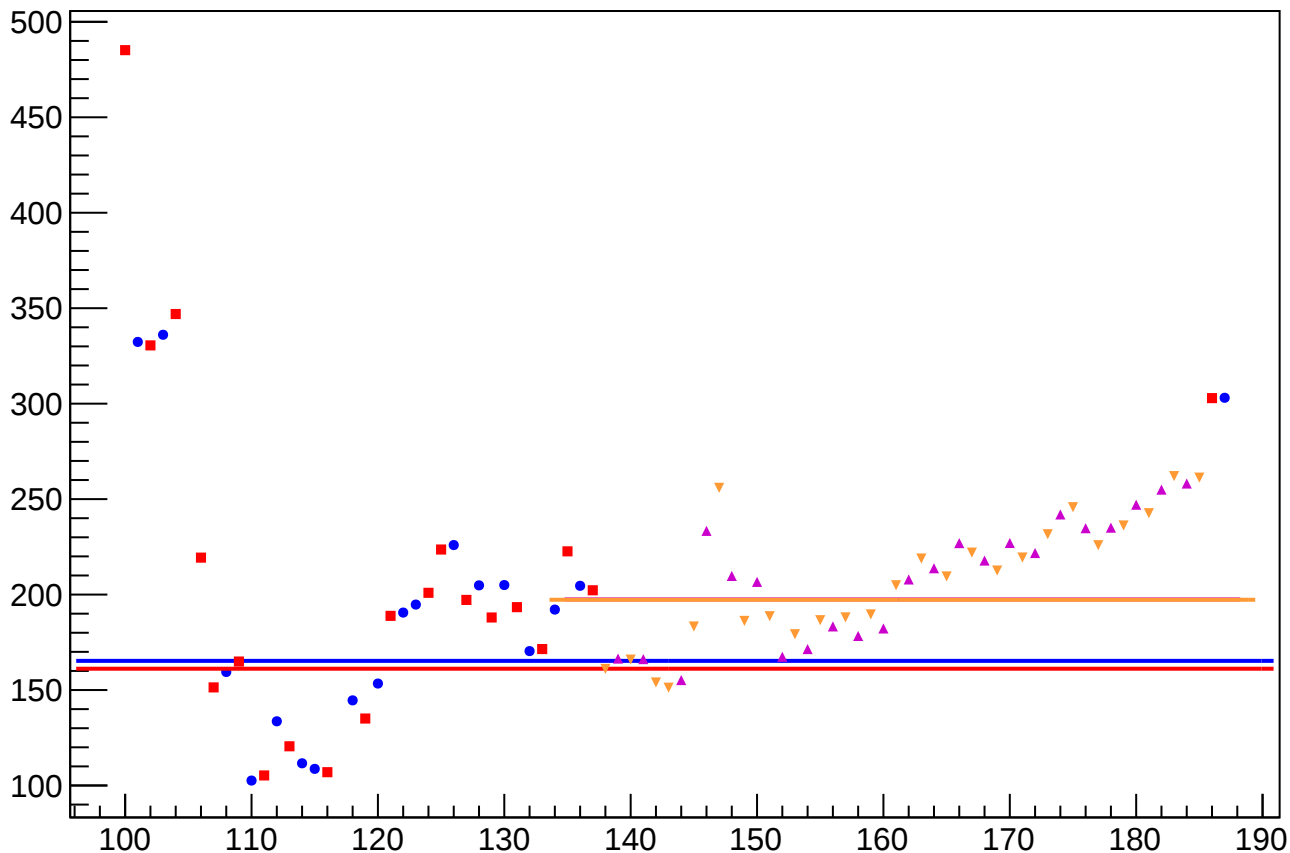
yield_bpm0l04WS_mean vs Slug



Right In: 135368.176 ± 0.068 $\chi^2/\text{NDF}: 4591195704.4/17$
 Left Out: 127472.525 ± 0.047 $\chi^2/\text{NDF}: 303609315.6/24$
 Right Out: 135357.288 ± 0.064 $\chi^2/\text{NDF}: 5029401597.9/19$
 Left In: 127406.911 ± 0.048 $\chi^2/\text{NDF}: 269927988.0/22$

+ sign 130009.291 ± 0.039 $\chi^2/\text{NDF}: 14017900273.0$
 All: 130157.028 ± 0.027 $\chi^2/\text{NDF}: 291952360.0$
 - sign 130304.415 ± 0.039 $\chi^2/\text{NDF}: 15148075813.0$

yield_bpm0l04WS_rms vs Slug



Right In: 165.278 $\pm$ 0.048 χ^2 /NDF: 1288892.4/17

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 161.162 $\pm$ 0.045 χ^2 /NDF: 1540795.7/19

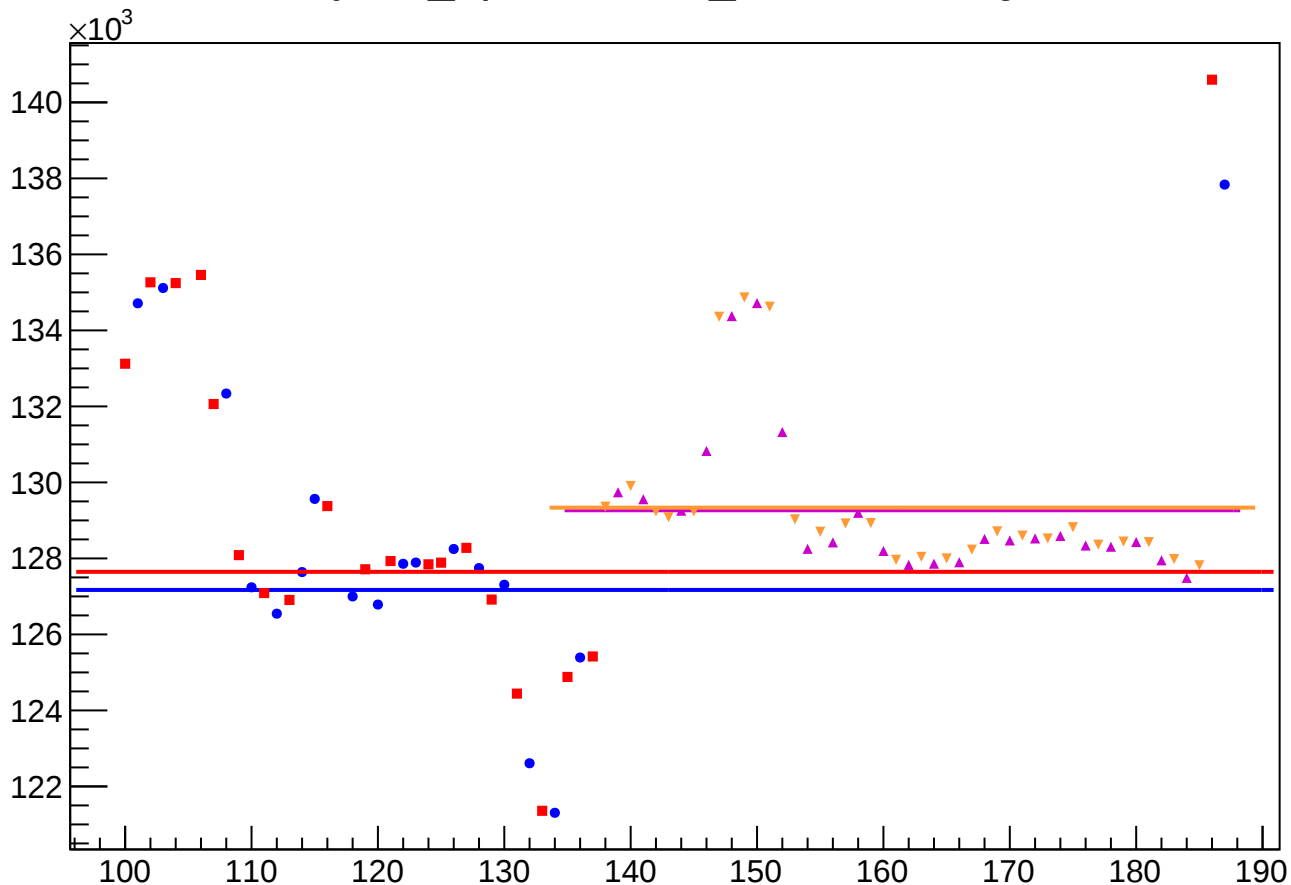
Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

+ sign 187.004 $\pm$ 0.027 χ^2 /NDF: 2440842.8/42

All: 185.620 $\pm$ 0.019 χ^2 /NDF: 5189187.4/85

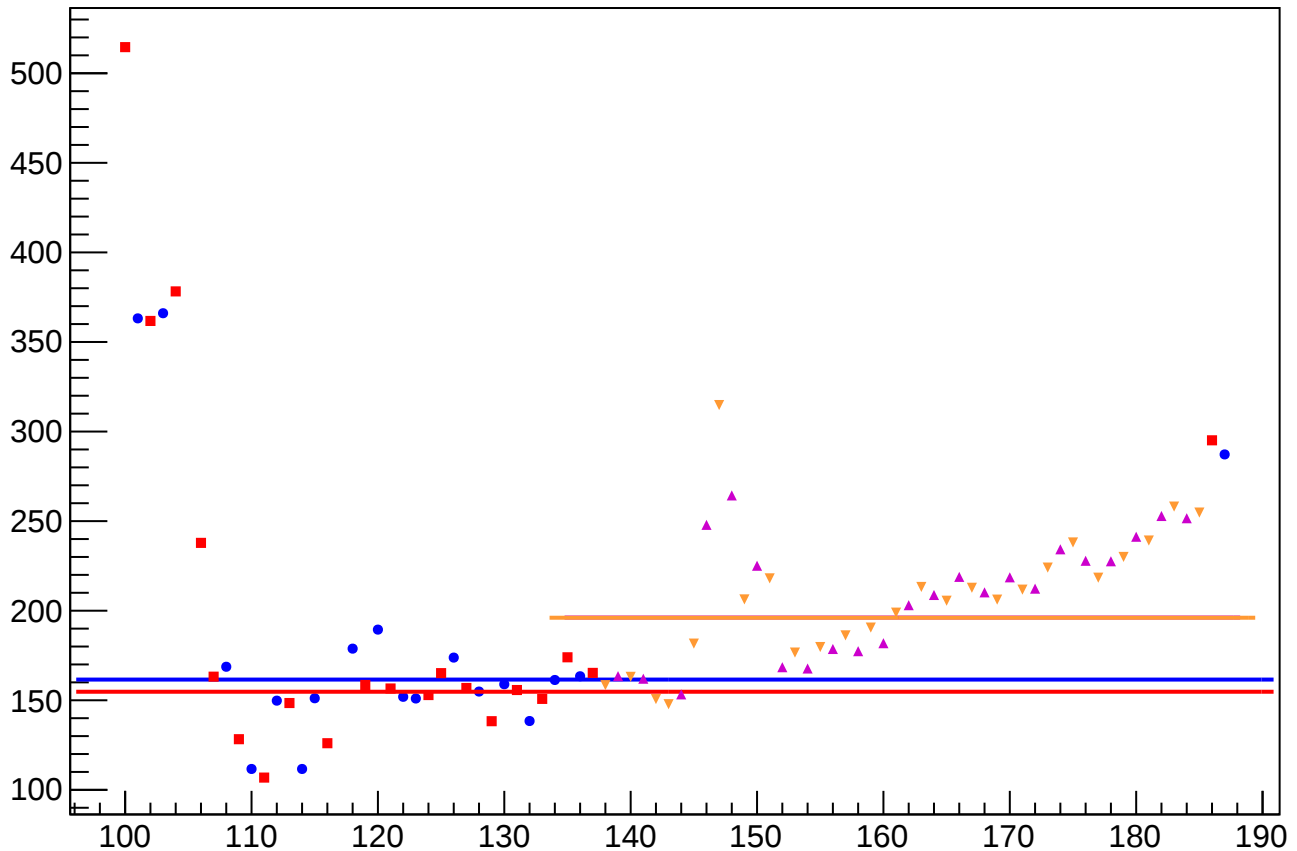
- sign 184.238 $\pm$ 0.027 χ^2 /NDF: 2743203.7/42

yield_bpm0l05WS_mean vs Slug



Right In: 127170.427 $\pm$ 0.066	χ^2 /NDF: 1916908085.7/17	+ sign 128615.572 $\pm$ 0.038	χ^2 /NDF: 4082310815.2
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	All: 128630.843 $\pm$ 0.027	χ^2 /NDF: 855353807
Right Out: 127646.907 $\pm$ 0.061	χ^2 /NDF: 2823247586.9/19	- sign 128645.828 $\pm$ 0.038	χ^2 /NDF: 4470910187.8
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22		

yield_bpm0l05WS_rms vs Slug



Right In: 161.558 $\pm$ 0.047 χ^2 /NDF: 998142.0/17

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

+ sign 184.594 $\pm$ 0.027 χ^2 /NDF: 2336946.5/42

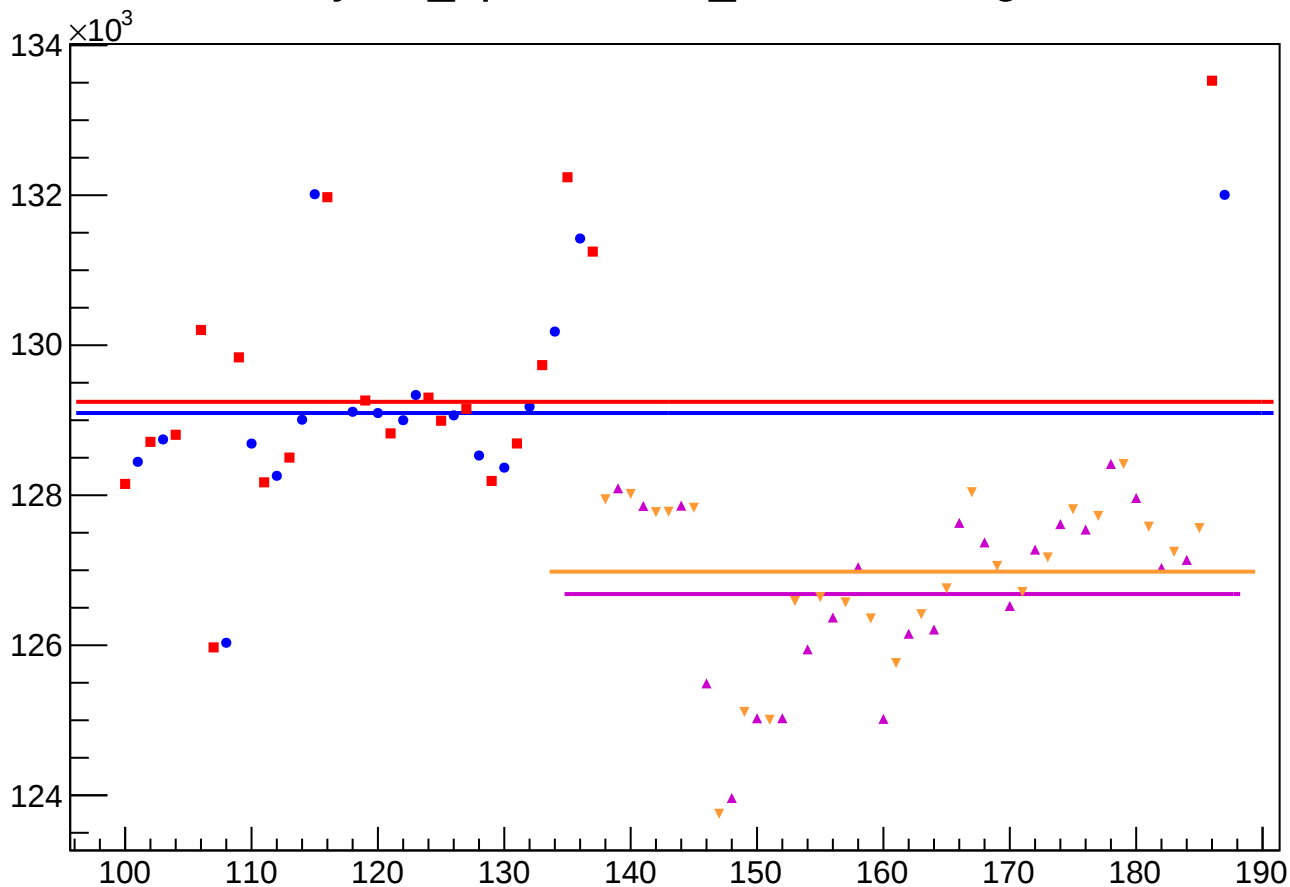
Right Out: 154.766 $\pm$ 0.043 χ^2 /NDF: 1259155.7/19

All: 182.430 $\pm$ 0.019 χ^2 /NDF: 5074189.5/85

- sign 180.306 $\pm$ 0.027 χ^2 /NDF: 2724506.1/42

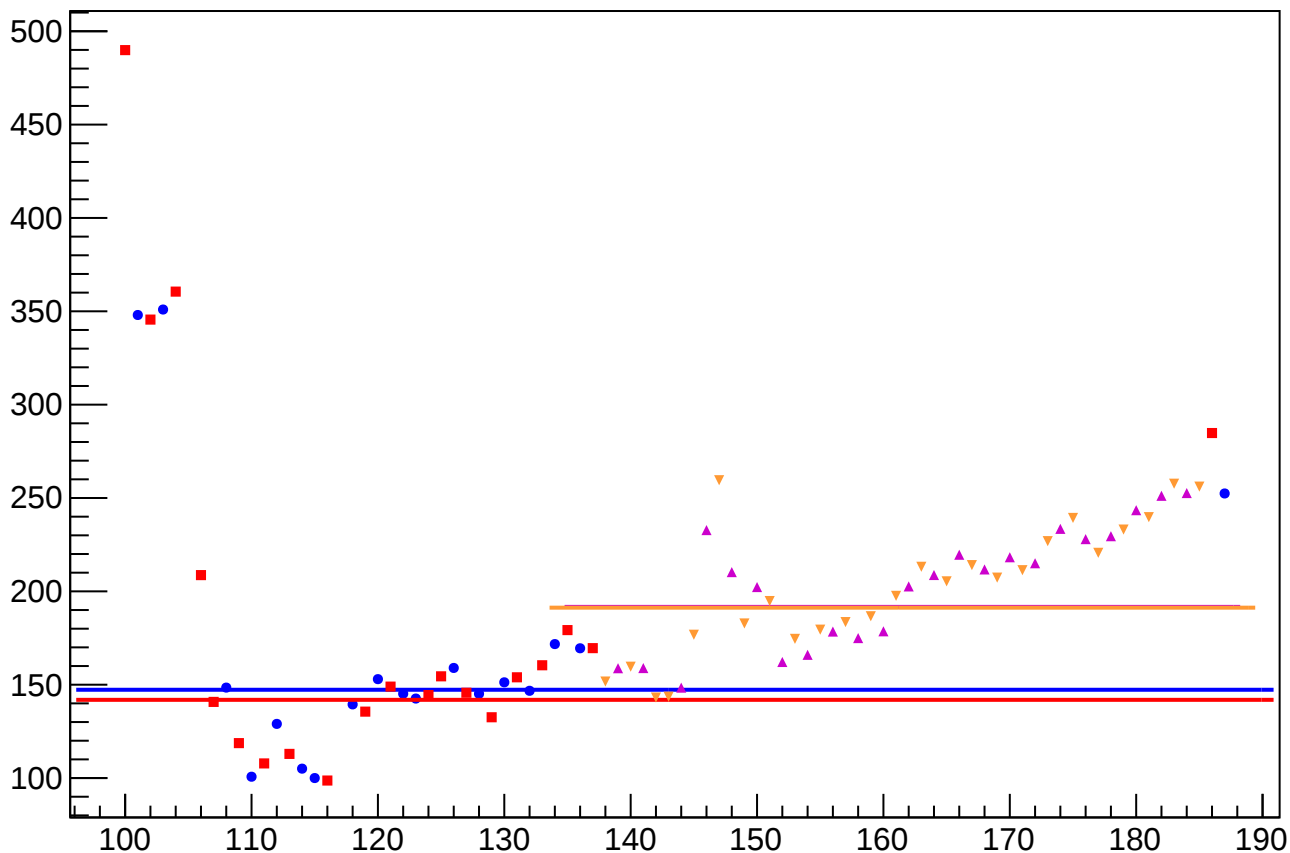
Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

yield_bpm0l06WS_mean vs Slug



Right In: 129096.265 $\pm$ 0.060 χ^2 /NDF: 496195410.7/17
 Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24
 Right Out: 129245.504 $\pm$ 0.056 χ^2 /NDF: 712330504.6/19
 Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22
 + sign 127753.929 $\pm$ 0.036 χ^2 /NDF: 1814711446.7
 All: 127750.908 $\pm$ 0.026 χ^2 /NDF: 442377689
 - sign 127747.945 $\pm$ 0.036 χ^2 /NDF: 2609051702.9

yield_bpm0l06WS_rms vs Slug



Right In: 147.292 $\pm$ 0.042 χ^2 /NDF: 1118969.7/17

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 141.897 $\pm$ 0.039 χ^2 /NDF: 1394525.6/19

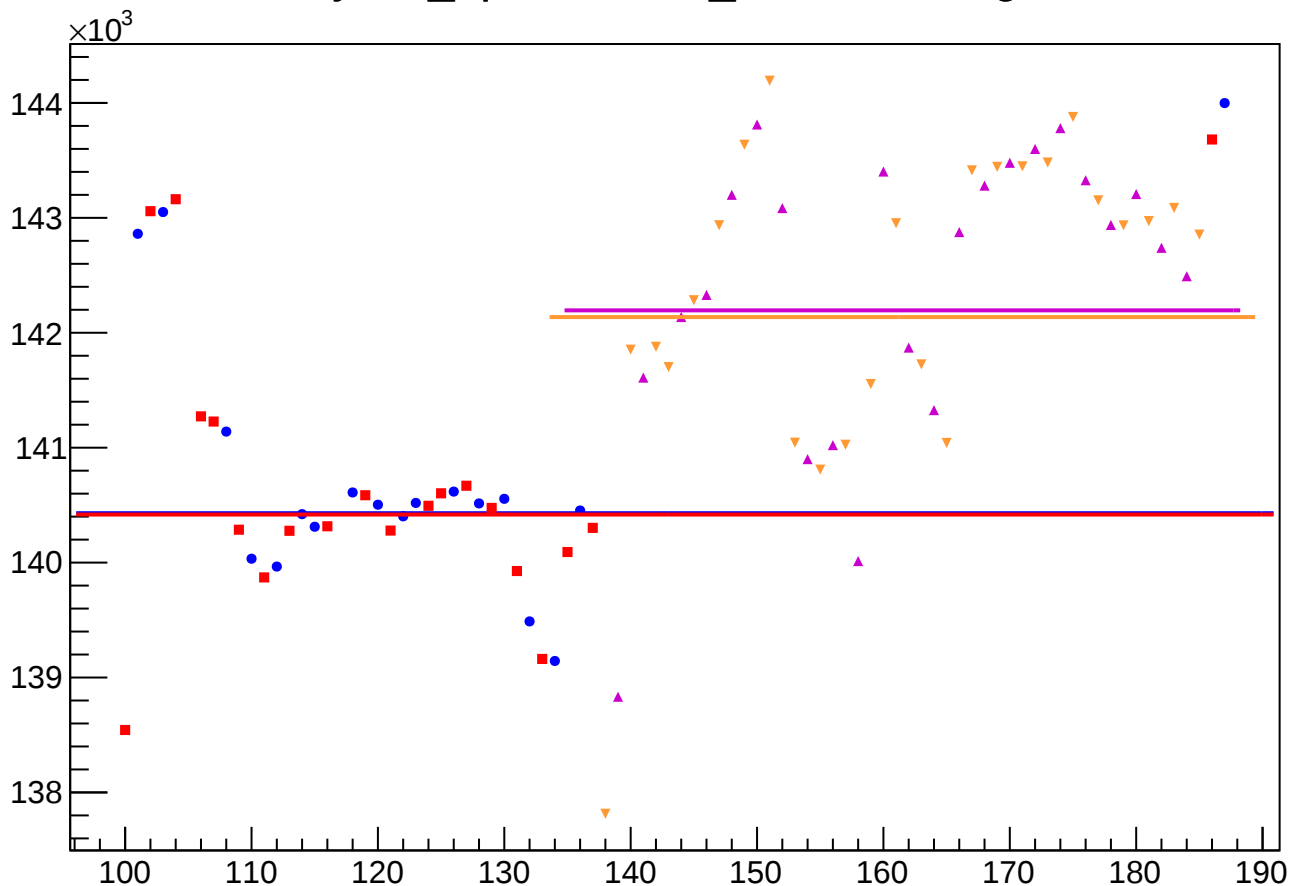
Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

+ sign 175.205 $\pm$ 0.026 χ^2 /NDF: 2792978.0/42

All: 173.076 $\pm$ 0.018 χ^2 /NDF: 5998631.1/85

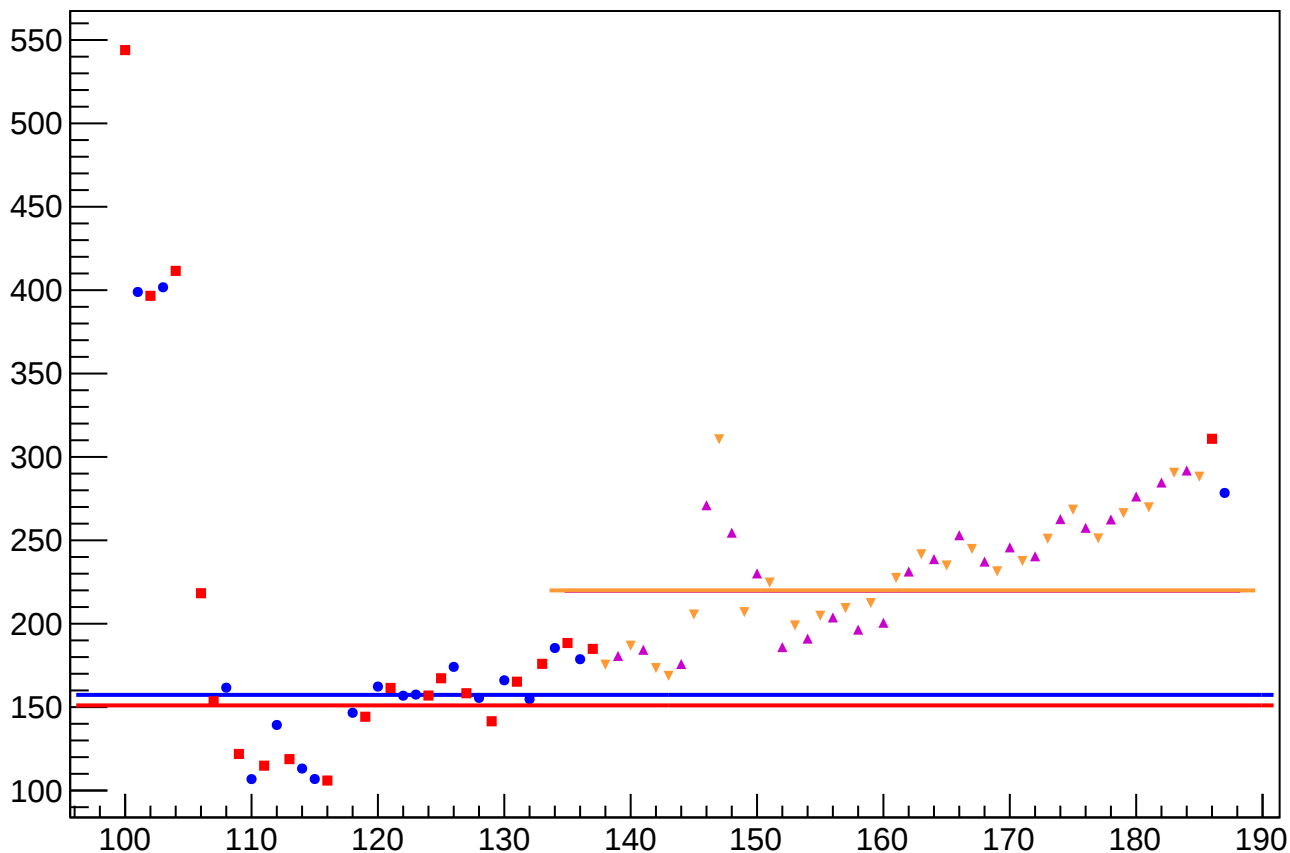
- sign 170.988 $\pm$ 0.025 χ^2 /NDF: 3192004.6/42

yield_bpm0l07WS_mean vs Slug



Right In: 140429.759 $\pm$ 0.064 χ^2 /NDF: 112455414.0/17
 Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24
 Right Out: 140418.247 $\pm$ 0.059 χ^2 /NDF: 141696132.3/19
 Left In: 142195.020 $\pm$ 0.054 χ^2 /NDF: 644030906.9/22
 + sign 141455.445 $\pm$ 0.041 χ^2 /NDF: 1352644298.4/17
 All: 141424.426 $\pm$ 0.028 χ^2 /NDF: 262986414.0/17
 - sign 141394.378 $\pm$ 0.040 χ^2 /NDF: 1276068555.2/17

yield_bpm0l07WS_rms vs Slug



Right In: 157.333 $\pm$ 0.045 χ^2 /NDF: 1210639.6/17

Left Out: 219.969 $\pm$ 0.037 χ^2 /NDF: 866616.3/24

Right Out: 151.022 $\pm$ 0.042 χ^2 /NDF: 1505366.0/19

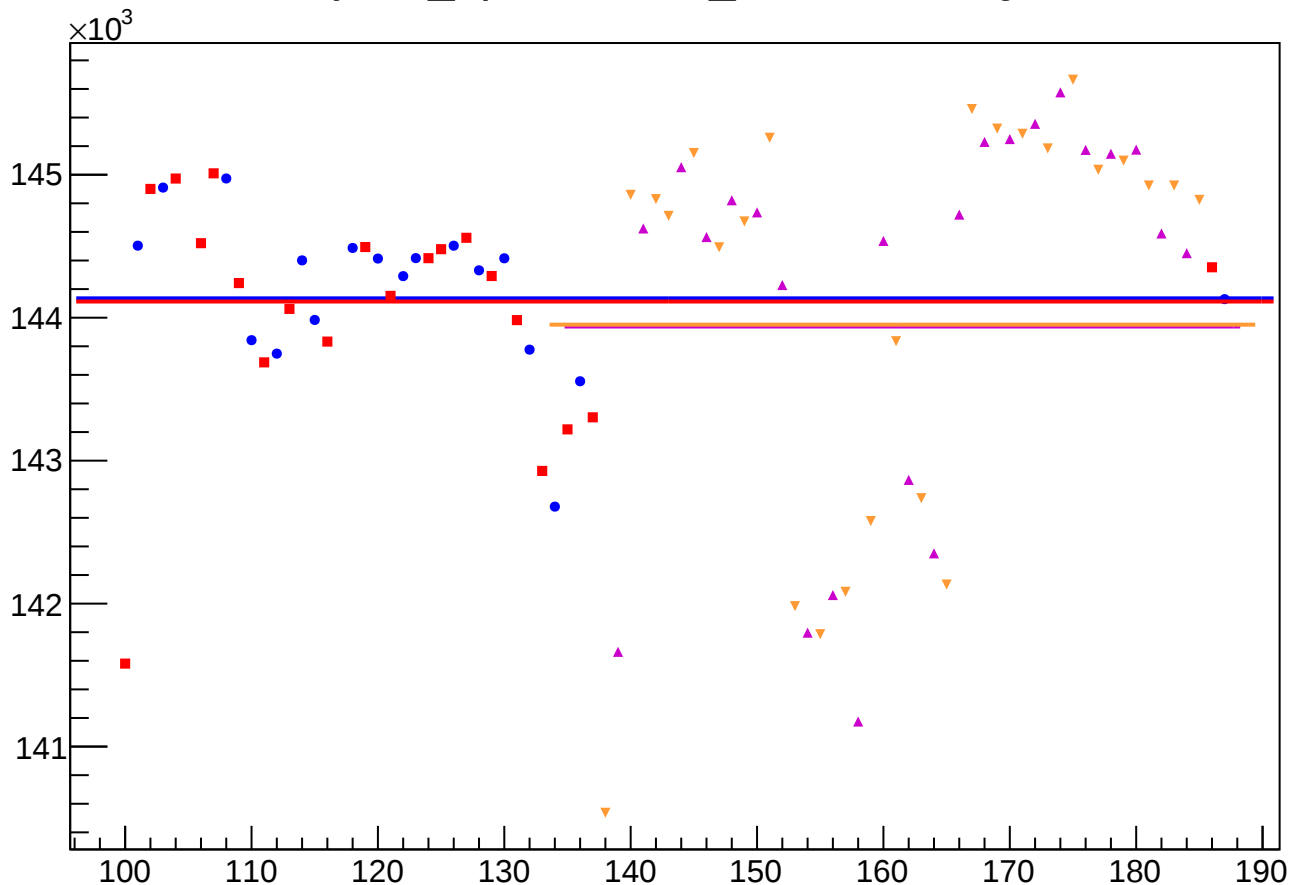
Left In: 219.685 $\pm$ 0.038 χ^2 /NDF: 812745.1/22

+ sign 194.973 $\pm$ 0.029 χ^2 /NDF: 3220931.4/42

All: 191.809 $\pm$ 0.020 χ^2 /NDF: 7027572.9/85

- sign 188.744 $\pm$ 0.028 χ^2 /NDF: 3782683.0/42

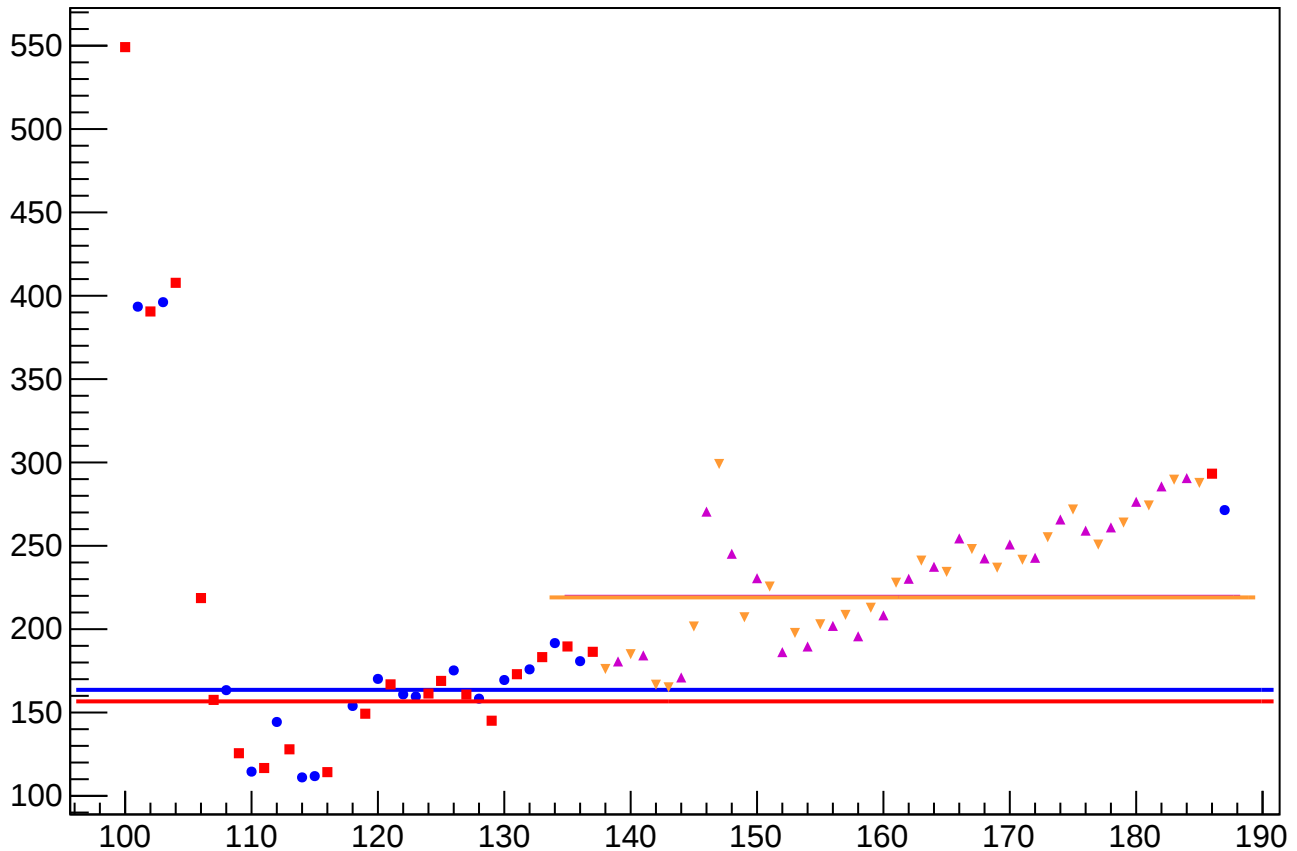
yield_bpm0l08WS_mean vs Slug



Right In: 144135.314 $\pm$ 0.067 χ^2 /NDF: 47030778.0/17
 Left Out: 143951.284 $\pm$ 0.052 χ^2 /NDF: 864679545.2/24
 Right Out: 144113.174 $\pm$ 0.061 χ^2 /NDF: 65489799.3/19
 Left In: 143938.288 $\pm$ 0.054 χ^2 /NDF: 719814685.6/22

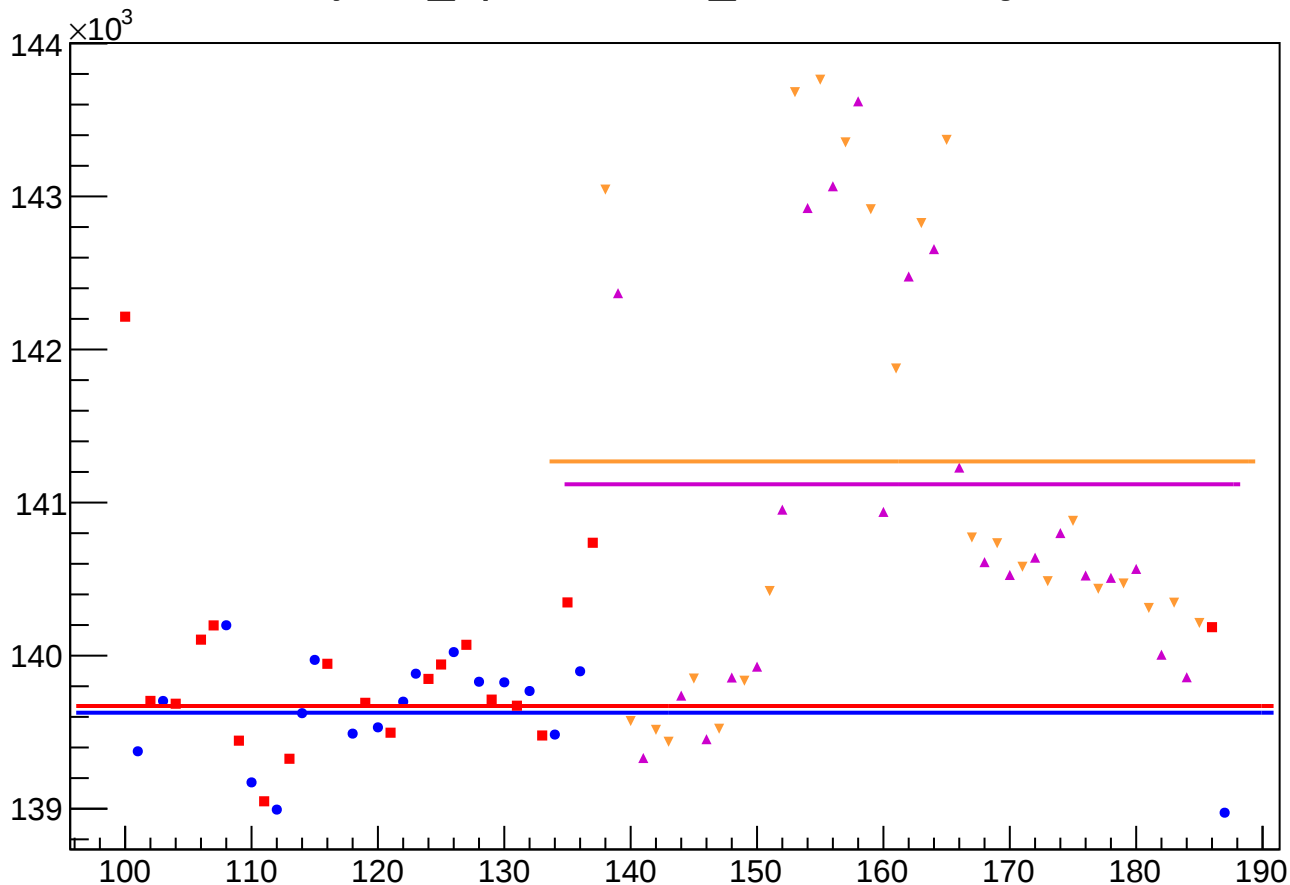
+ sign 144021.238 $\pm$ 0.041 χ^2 /NDF: 916446549.7/4
 All: 144017.739 $\pm$ 0.029 χ^2 /NDF: 170635326
 - sign 144014.336 $\pm$ 0.040 χ^2 /NDF: 789892376.2/4

yield_bpm0l08WS_rms vs Slug



Right In: 163.600 $\pm$ 0.047 χ^2 /NDF: 1116510.4/17 + sign 197.972 $\pm$ 0.029 χ^2 /NDF: 2910904.2/42
 Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF: 934417.6/24 All: 195.016 $\pm$ 0.020 χ^2 /NDF: 6344018.3/85
 Right Out: 156.680 $\pm$ 0.043 χ^2 /NDF: 1381422.2/19 - sign 192.141 $\pm$ 0.029 χ^2 /NDF: 3412653.6/42
 Left In: 219.426 $\pm$ 0.038 χ^2 /NDF: 850089.5/22

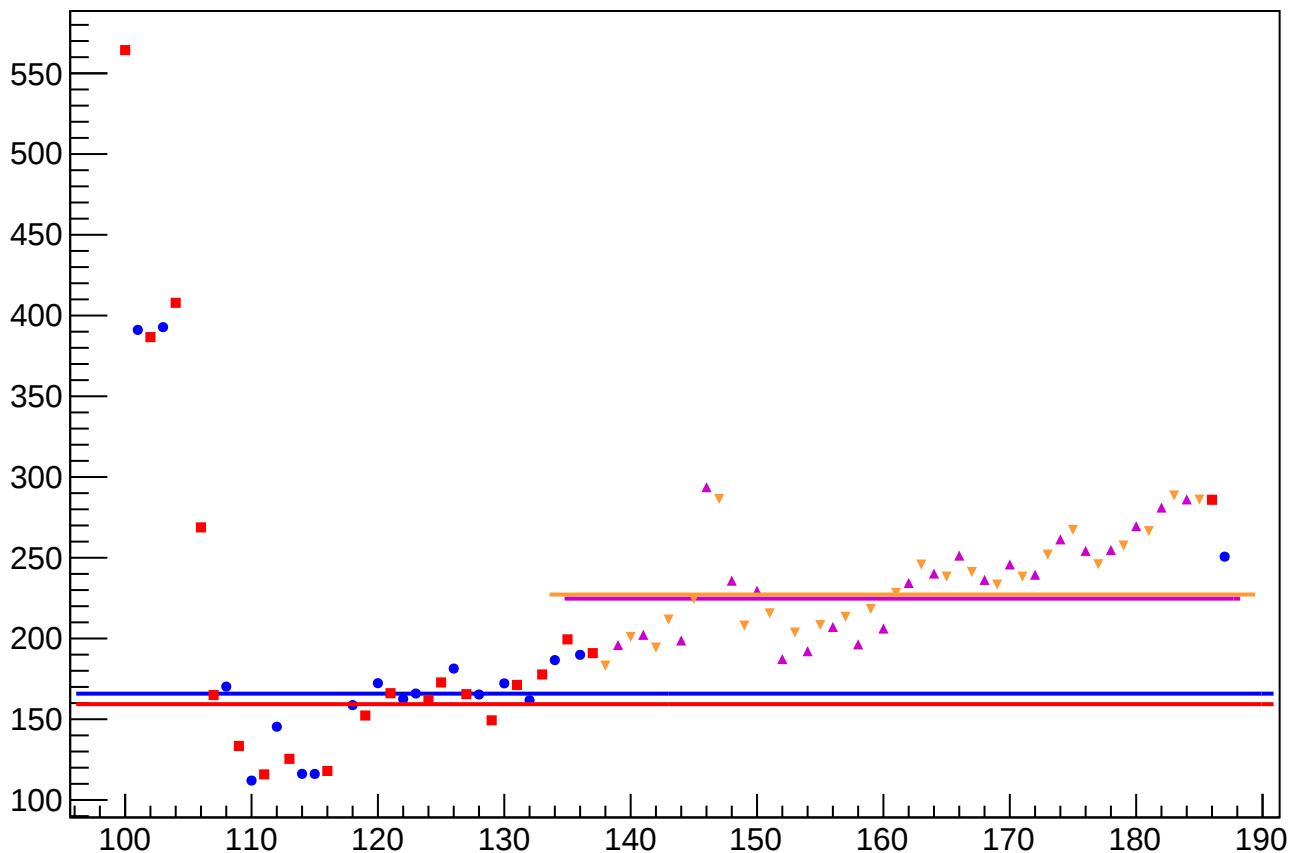
yield_bpm0l09WS_mean vs Slug



Right In: 139627.258 $\pm$ 0.068 χ^2 /NDF: 25816914.8/17
 Left Out: 141268.791 $\pm$ 0.054 χ^2 /NDF: 795989244.2/24
 Right Out: 139671.075 $\pm$ 0.063 χ^2 /NDF: 39588939.4/19
 Left In: 141119.484 $\pm$ 0.055 χ^2 /NDF: 565312728.1/22

+ sign 140633.257 $\pm$ 0.042 χ^2 /NDF: 1183596229.7
 All: 140559.548 $\pm$ 0.029 χ^2 /NDF: 209756596
 - sign 140488.556 $\pm$ 0.041 χ^2 /NDF: 907934263.1/41

yield_bpm0l09WS_rms vs Slug



Right In: 165.846 ± 0.048 χ^2/NDF : 1098163.7/17

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 159.349 ± 0.044 χ^2/NDF : 1391767.8/19

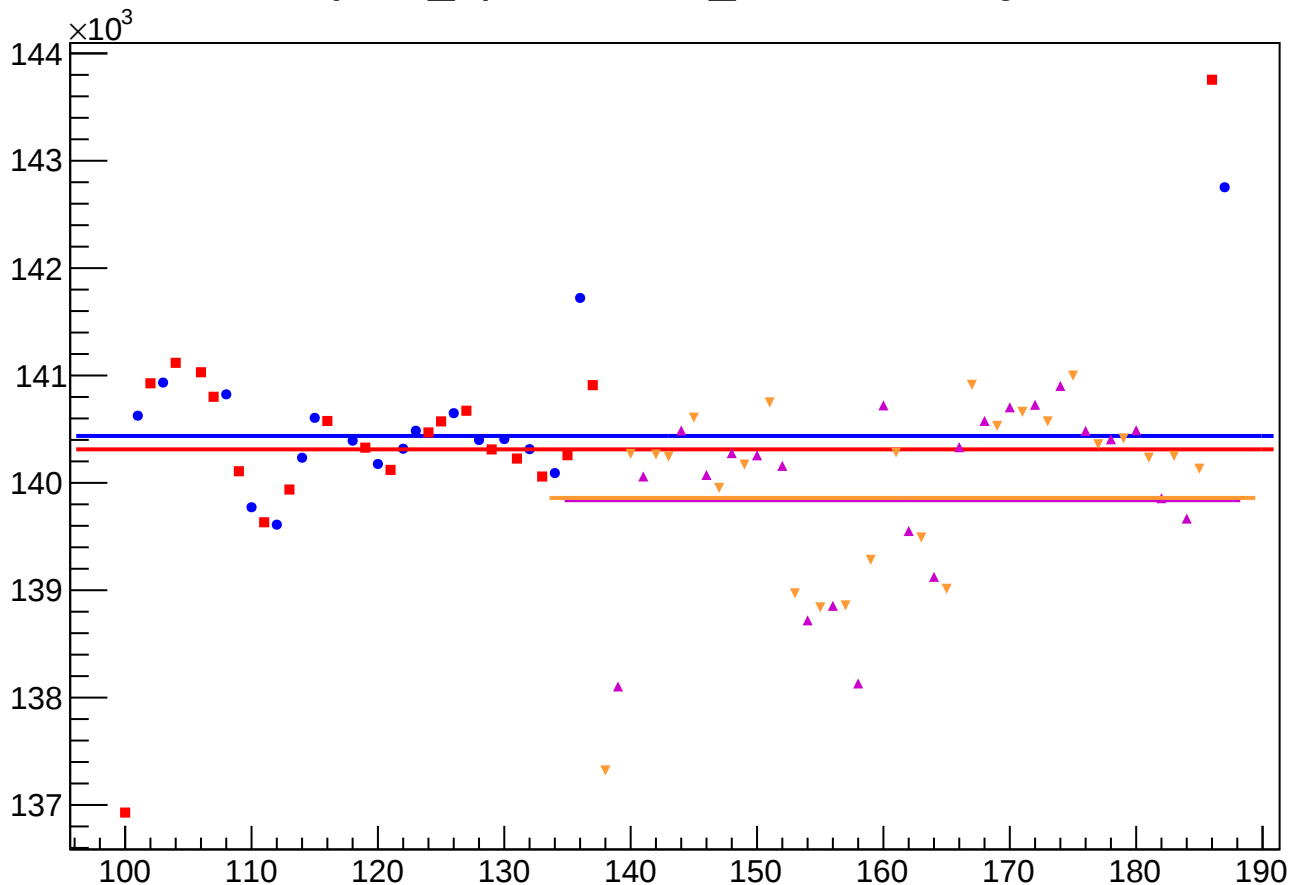
Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

+ sign 203.461 ± 0.030 χ^2/NDF : 2594737.8/42

All: 199.775 ± 0.021 χ^2/NDF : 5828318.9/85

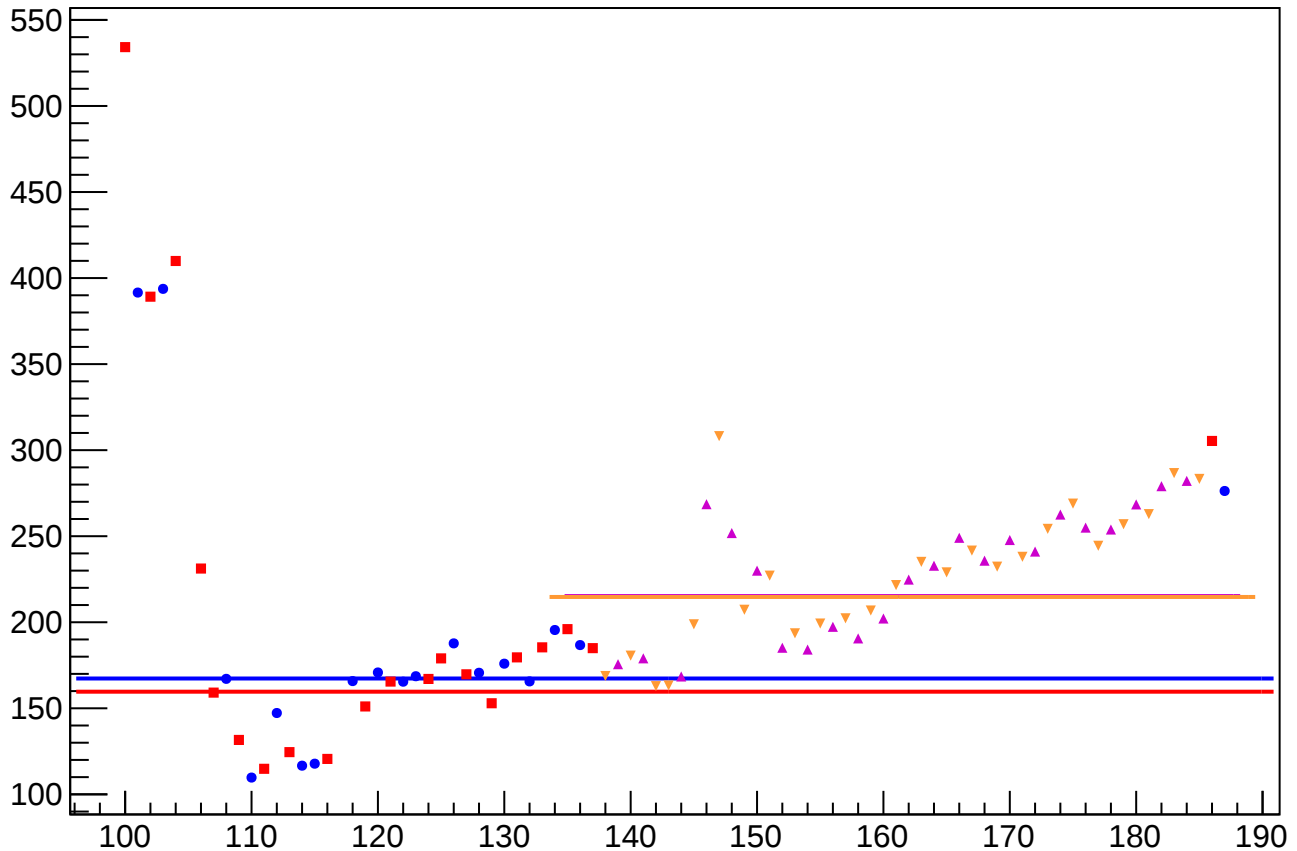
- sign 196.225 ± 0.029 χ^2/NDF : 3203400.7/42

yield_bpm0l10WS_mean vs Slug



Right In: 140436.960 ± 0.068 χ^2/NDF : 80303566.2/17
 Left Out: 139859.696 ± 0.051 χ^2/NDF : 330118281.5/24
 Right Out: 140312.085 ± 0.063 χ^2/NDF : 86654919.6/19
 Left In: 139838.724 ± 0.053 χ^2/NDF : 279573689.3/22

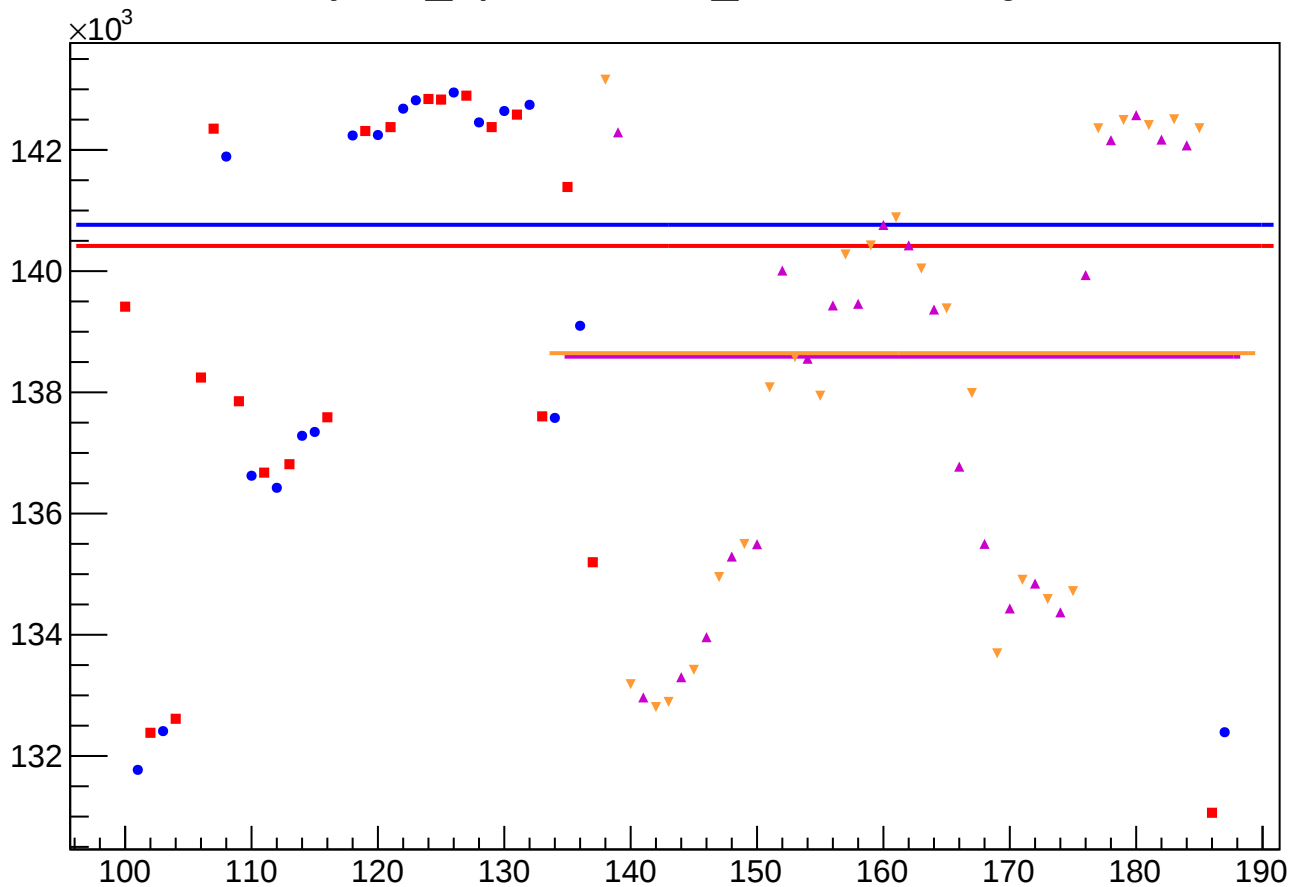
yield_bpm0l10WS_rms vs Slug



Right In: 167.315 $\pm$ 0.048 χ^2 /NDF: 1126806.4/17
 Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24
 Right Out: 159.650 $\pm$ 0.044 χ^2 /NDF: 1400370.0/19
 Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

+ sign 197.659 $\pm$ 0.029 χ^2 /NDF: 2726099.7/42
 All: 194.871 $\pm$ 0.020 χ^2 /NDF: 5946542.0/85
 - sign 192.152 $\pm$ 0.029 χ^2 /NDF: 3202079.1/42

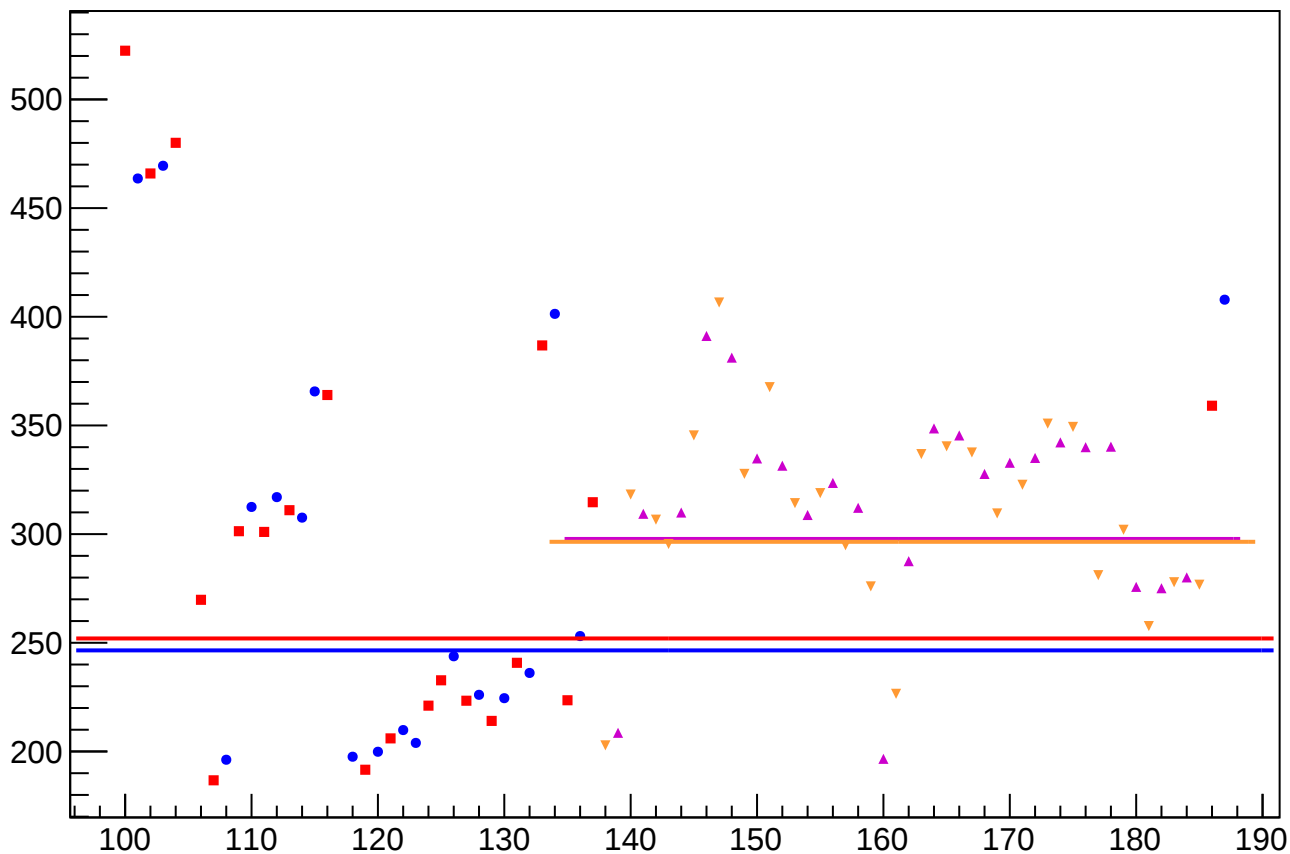
yield_bpm0r03WS_mean vs Slug



Right In: 140764.643 $\pm$ 0.100 χ^2 /NDF: 881835774.6/17
 Left Out: 138646.366 $\pm$ 0.071 χ^2 /NDF: 2548637600.4/24
 Right Out: 140415.944 $\pm$ 0.098 χ^2 /NDF: 1098037520.0/19
 Left In: 138588.711 $\pm$ 0.074 χ^2 /NDF: 1948065195.1/22

+ sign 139356.715 $\pm$ 0.058 χ^2 /NDF: 3730231598.7
 All: 139304.592 $\pm$ 0.041 χ^2 /NDF: 700085638
 - sign 139250.526 $\pm$ 0.059 χ^2 /NDF: 3268965870.8/

yield_bpm0r03WS_rms vs Slug



Right In: 246.504 $\pm$ 0.071 χ^2 /NDF: 913053.7/17

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 251.992 $\pm$ 0.069 χ^2 /NDF: 1078759.6/19

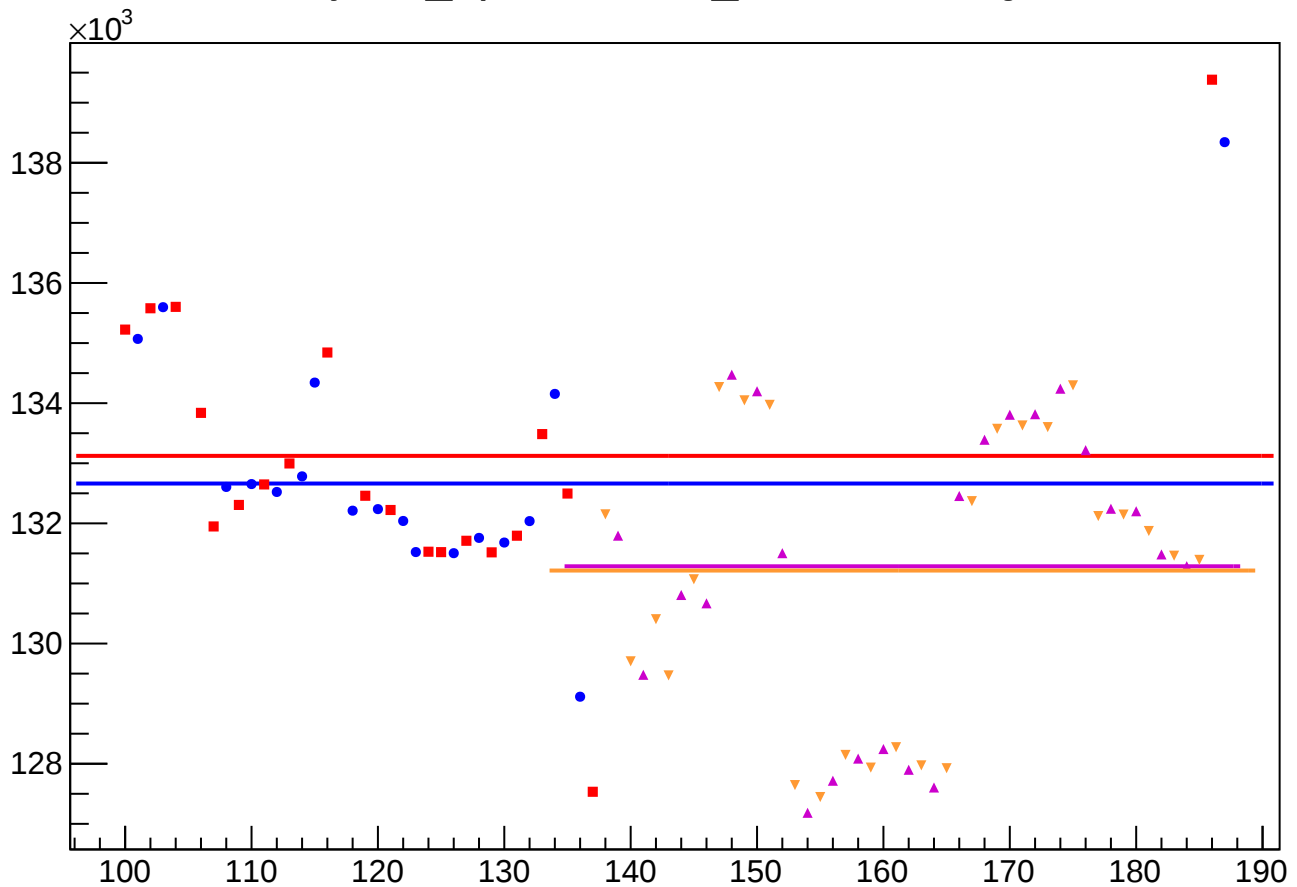
Left In: 297.774 $\pm$ 0.052 χ^2 /NDF:1061489.5/22

+ sign 279.711 $\pm$ 0.041 χ^2 /NDF: 2140125.7/42

All: 280.438 $\pm$ 0.029 χ^2 /NDF: 4560840.7/85

- sign 281.192 $\pm$ 0.042 χ^2 /NDF: 2420069.2/42

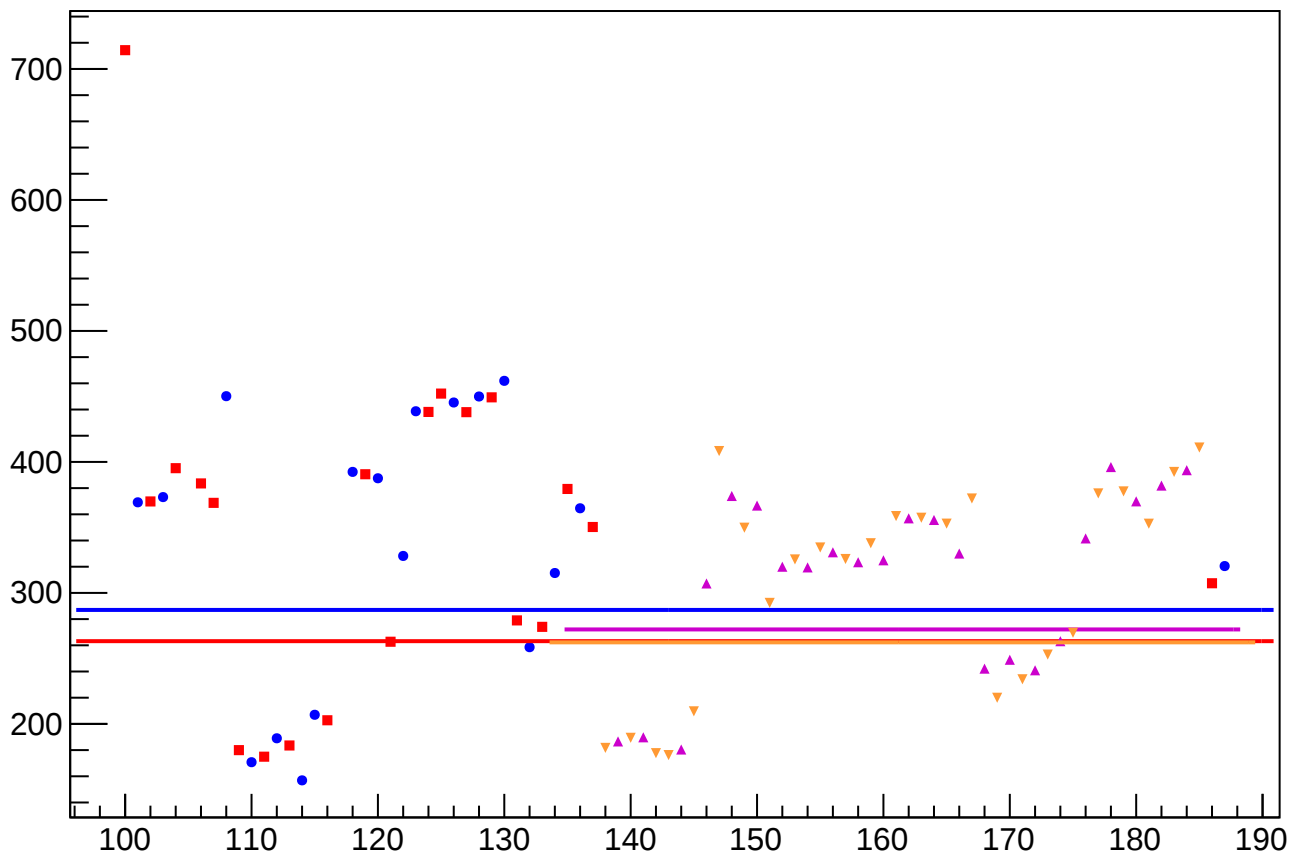
yield_bpm0r05WS_mean vs Slug



Right In: 132662.891 ± 0.118 $\chi^2/\text{NDF}: 207002004.5/17$
 Left Out: 131214.985 ± 0.064 $\chi^2/\text{NDF}: 1173424494.6/24$
 Right Out: 133123.173 ± 0.105 $\chi^2/\text{NDF}: 312614101.8/19$
 Left In: 131285.623 ± 0.068 $\chi^2/\text{NDF}: 1056232192.1/22$

+ sign 131544.602 ± 0.057 $\chi^2/\text{NDF}: 1495802023.5$
 All: 131687.715 ± 0.040 $\chi^2/\text{NDF}: 309358516$
 - sign 131834.420 ± 0.057 $\chi^2/\text{NDF}: 1584800815.4$

yield_bpm0r05WS_rms vs Slug



Right In: 287.007 $\pm$ 0.084 χ^2 /NDF: 1517245.1/17

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 263.162 $\pm$ 0.074 χ^2 /NDF: 1630639.6/19

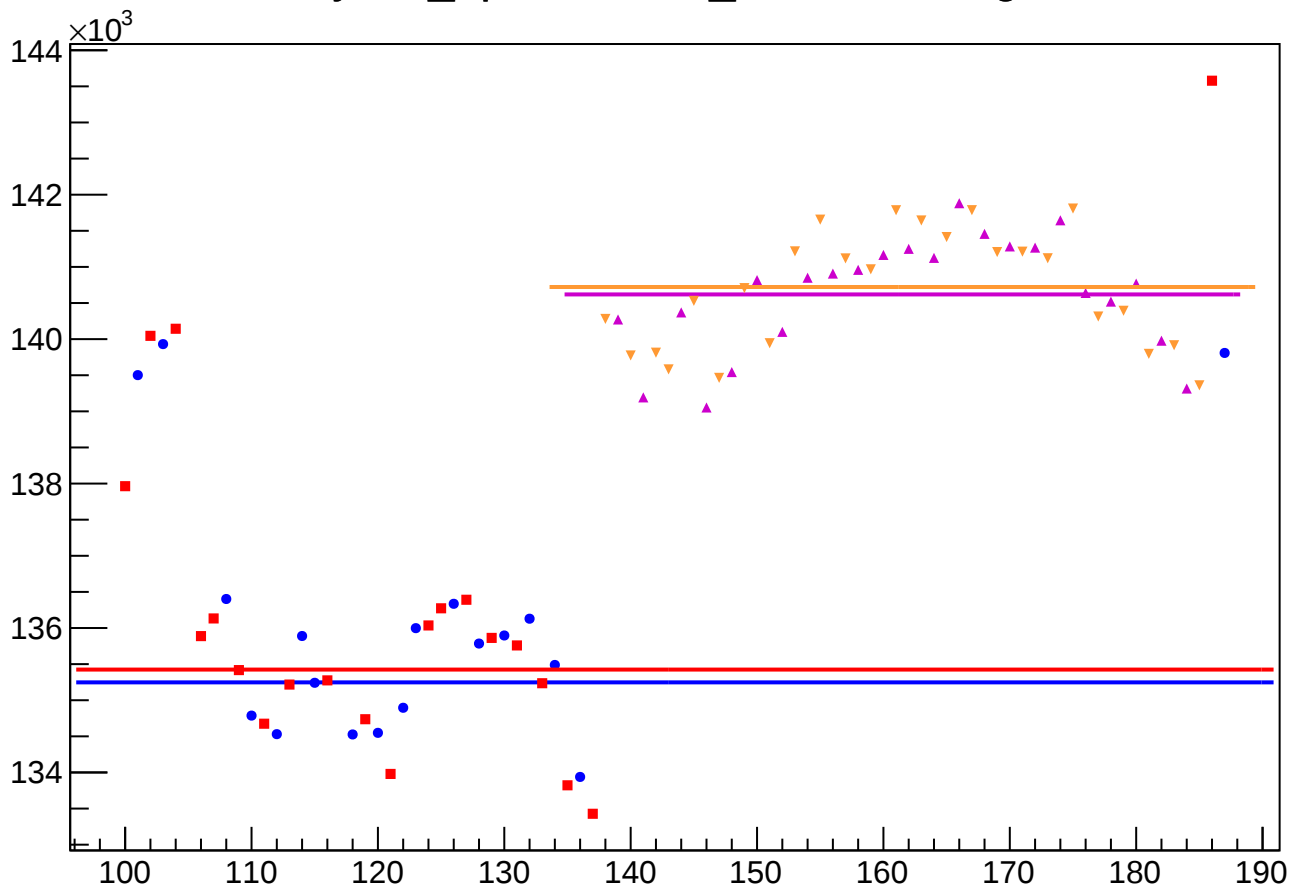
Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

+ sign 267.893 $\pm$ 0.040 χ^2 /NDF: 4402824.5/42

All: 268.658 $\pm$ 0.028 χ^2 /NDF: 8266380.7/85

- sign 269.441 $\pm$ 0.040 χ^2 /NDF: 3862815.9/42

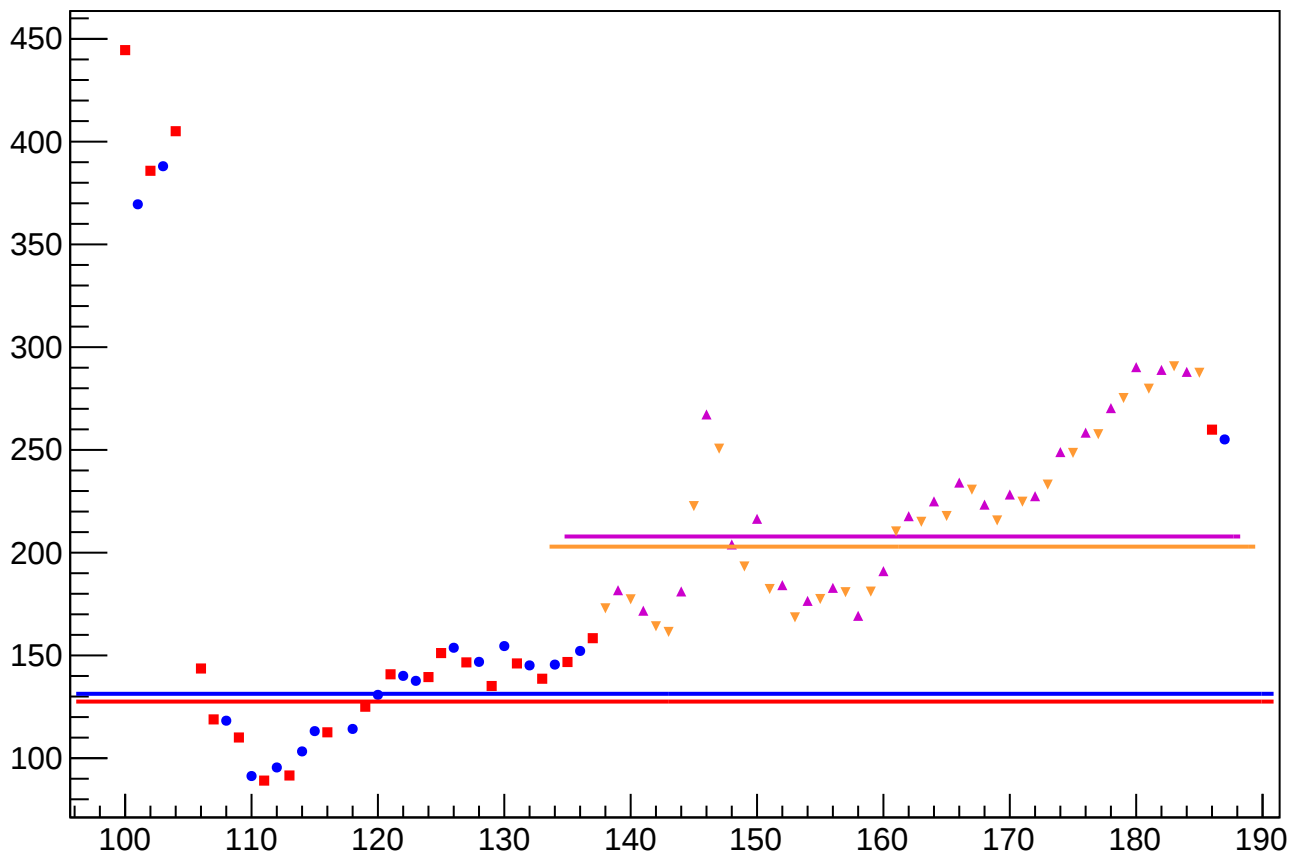
yield_bpm0i02WS_mean vs Slug



Right In: 135247.337 ± 0.054 $\chi^2/\text{NDF}: 419912915.3/17$
 Left Out: 140721.823 ± 0.048 $\chi^2/\text{NDF}: 247257762.8/24$
 Right Out: 135424.591 ± 0.051 $\chi^2/\text{NDF}: 736798972.8/19$
 Left In: 140619.038 ± 0.051 $\chi^2/\text{NDF}: 200370178.0/22$

+ sign 138294.994 ± 0.036 $\chi^2/\text{NDF}: 6337055274.6$
 All: 138150.308 ± 0.026 $\chi^2/\text{NDF}: 125064074$
 - sign 138006.435 ± 0.036 $\chi^2/\text{NDF}: 6137346162.1/$

yield_bpm0i02WS_rms vs Slug



Right In: 131.326+/-0.038 χ^2/NDF : 1444379.1/17

Left Out: 202.934+/-0.034 χ^2/NDF : 1052283.6/24

Right Out: 127.541+/-0.036 χ^2/NDF : 1634654.1/19

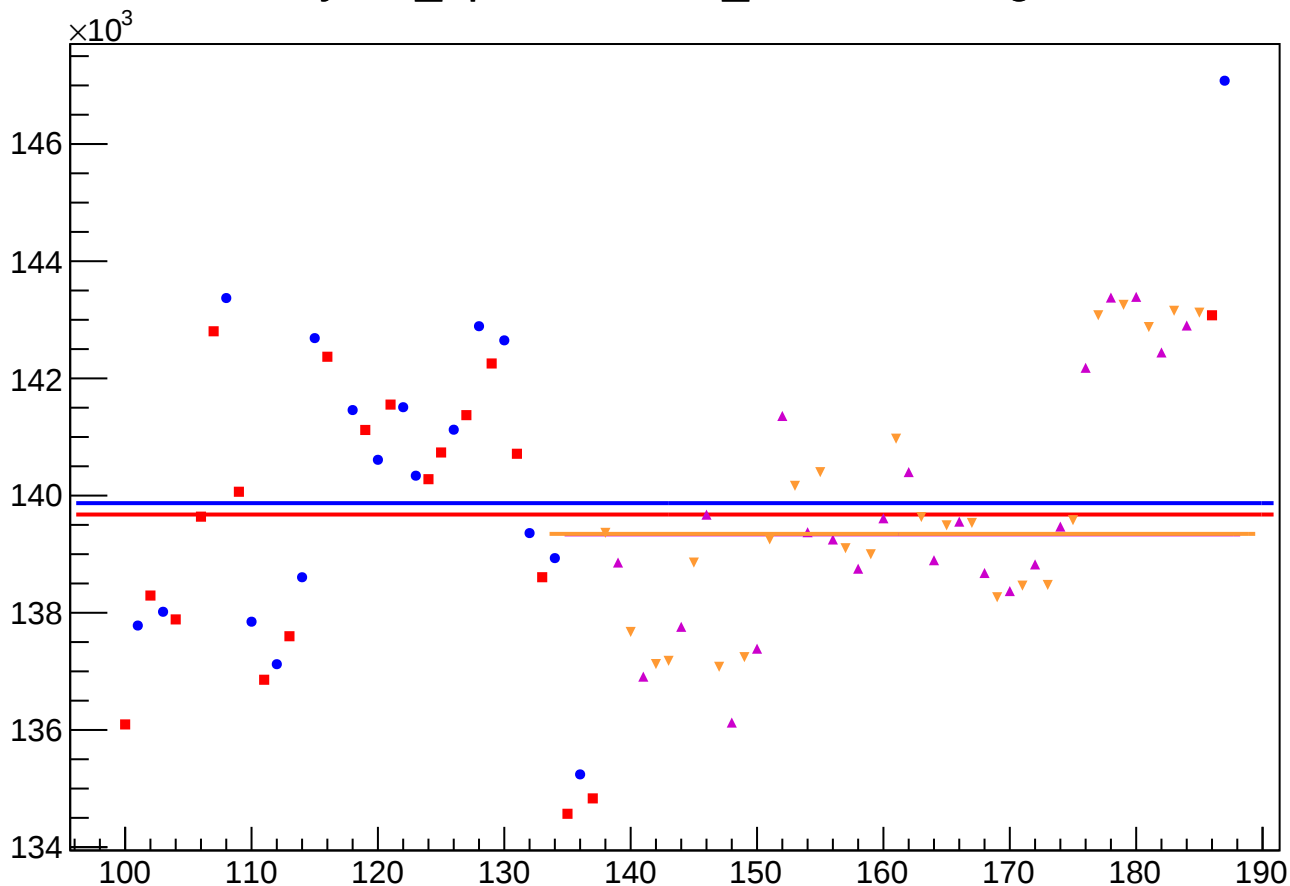
Left In: 207.872+/-0.036 χ^2/NDF : 949200.3/22

+ sign 171.191+/-0.026 χ^2/NDF : 4436814.2/42

All: 169.324+/-0.018 χ^2/NDF : 9518625.2/85

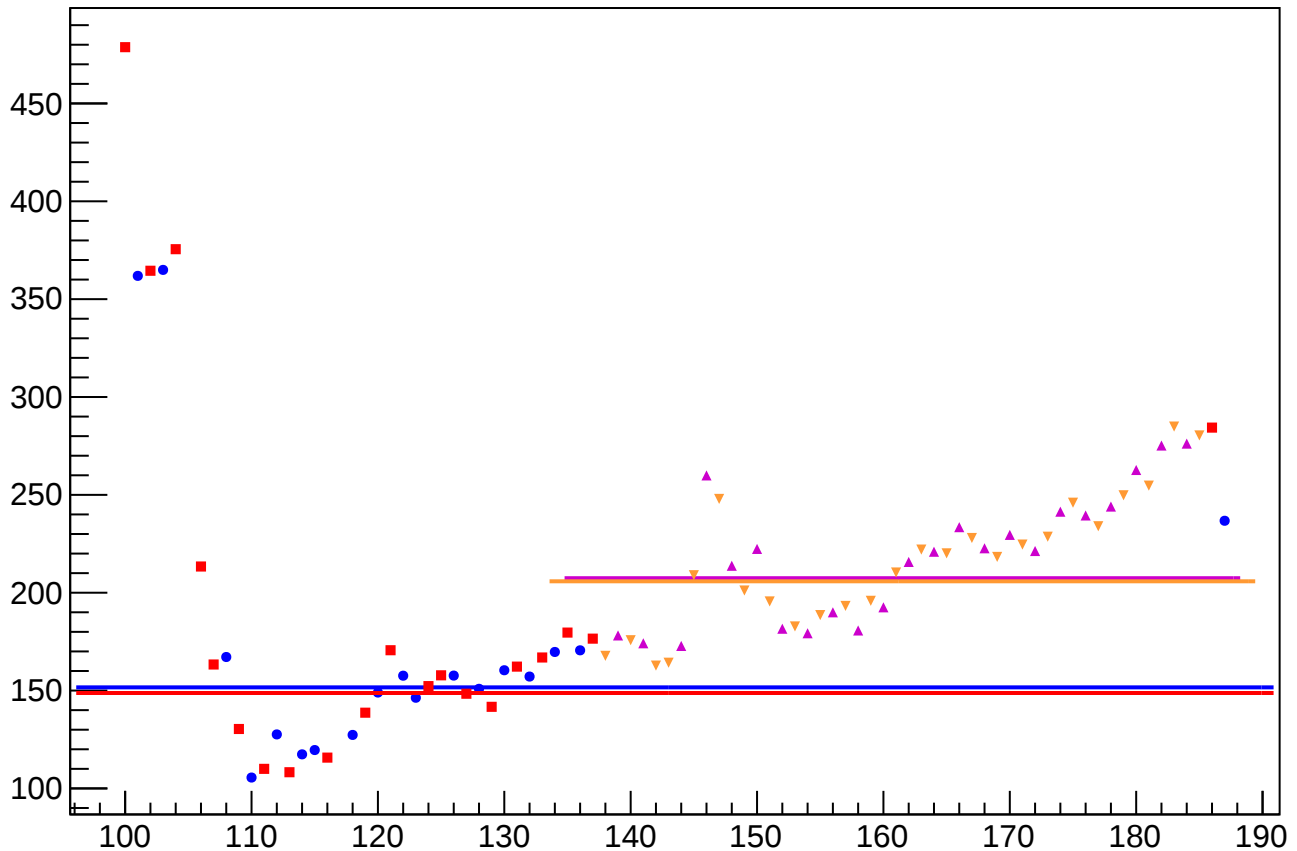
- sign 167.469+/-0.025 χ^2/NDF : 5071162.7/42

yield_bpm0i02aWS_mean vs Slug



Right In: 139870.997 $\pm$ 0.062 χ^2 /NDF: 1808143019.8/17
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 139676.830 $\pm$ 0.059 χ^2 /NDF: 1559645300.0/19
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 All: 139516.312 $\pm$ 0.027 χ^2 /NDF: 59968074
 + sign 139549.080 $\pm$ 0.038 χ^2 /NDF: 3123600994.3
 - sign 139483.491 $\pm$ 0.038 χ^2 /NDF: 2871746249.8

yield_bpm0i02aWS_rms vs Slug



Right In: 151.640 $\pm$ 0.044 χ^2 /NDF: 1089144.2/17

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 148.764 $\pm$ 0.041 χ^2 /NDF: 1376110.1/19

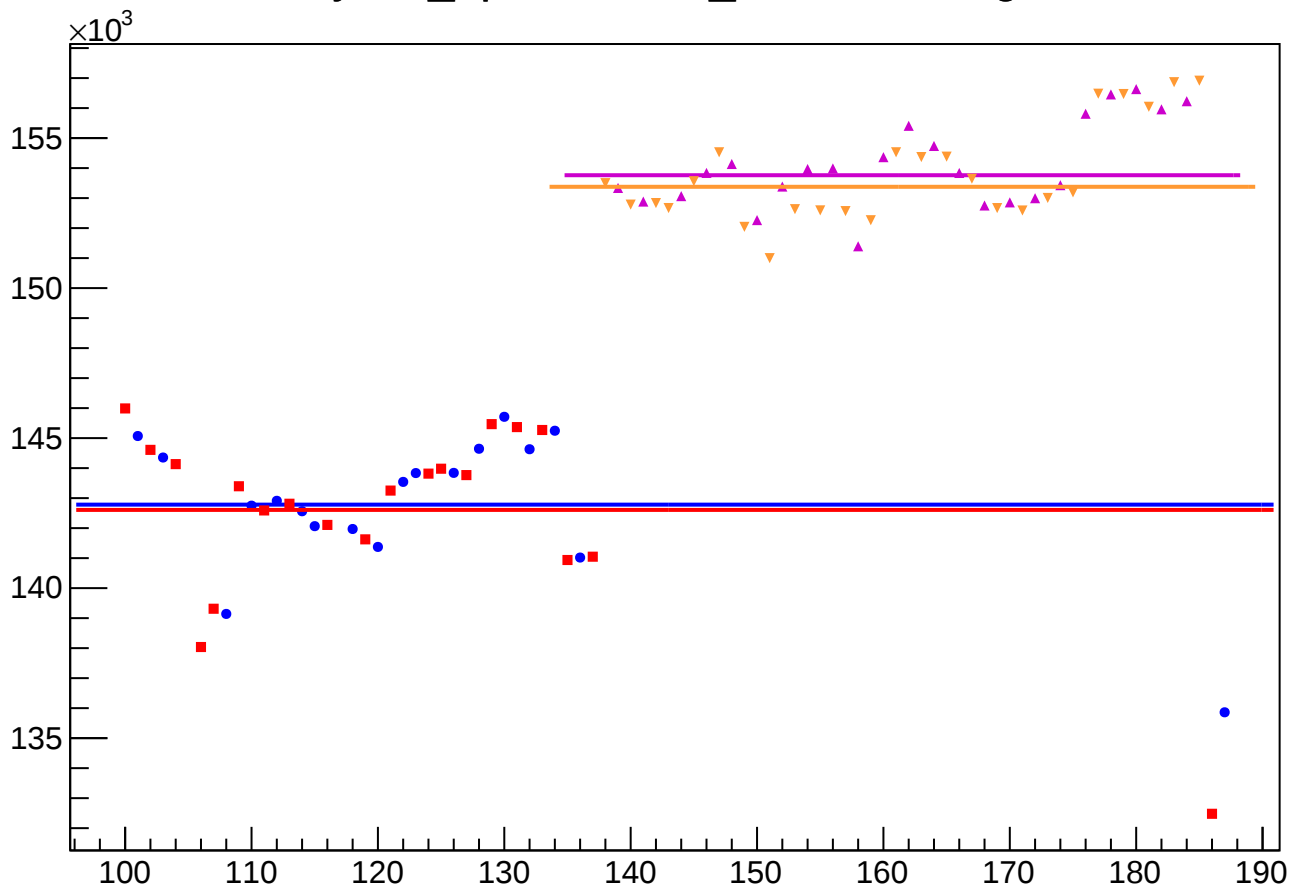
Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

+ sign 184.908 $\pm$ 0.027 χ^2 /NDF: 2773729.7/42

All: 183.565 $\pm$ 0.019 χ^2 /NDF: 6000304.6/85

- sign 182.219 $\pm$ 0.027 χ^2 /NDF: 3221665.6/42

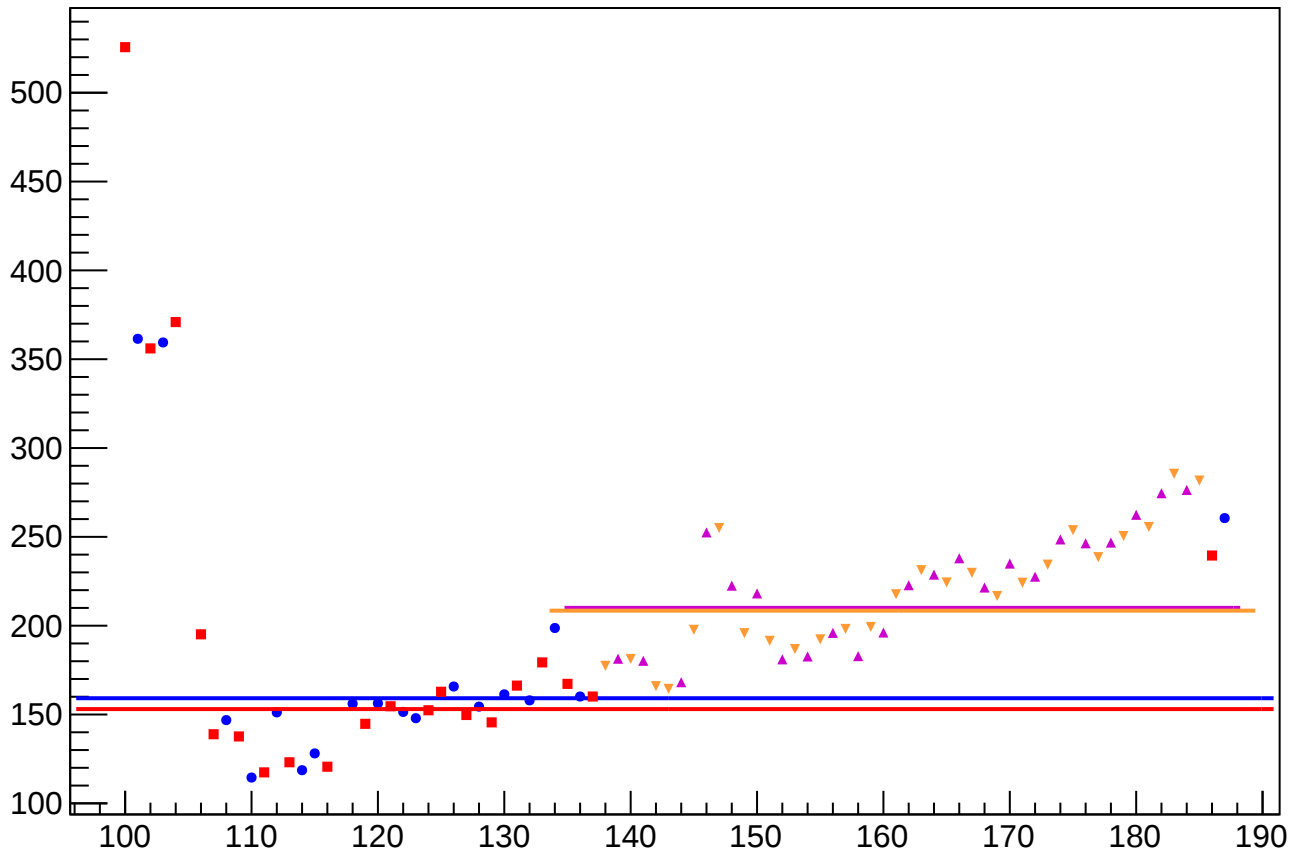
yield_bpm0i05WS_mean vs Slug



Right In: 142782.980 ± 0.064 χ^2/NDF : 841917755.6/17
 Left Out: 153376.698 ± 0.050 χ^2/NDF : 803848095.1/24
 Right Out: 142607.187 ± 0.060 χ^2/NDF : 1535799823.2/19
 Left In: 153762.419 ± 0.051 χ^2/NDF : 635075685.0/22

+ sign 149445.536 ± 0.039 χ^2/NDF : 18617693801.
 All: 149225.607 ± 0.028 χ^2/NDF : 408844382.
 - sign 149009.136 ± 0.039 χ^2/NDF : 22204551965.4

yield_bpm0i05WS_rms vs Slug



Right In: 159.169 $\pm$ 0.046 χ^2 /NDF: 929194.7/17

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 153.060 $\pm$ 0.042 χ^2 /NDF: 1100524.0/19

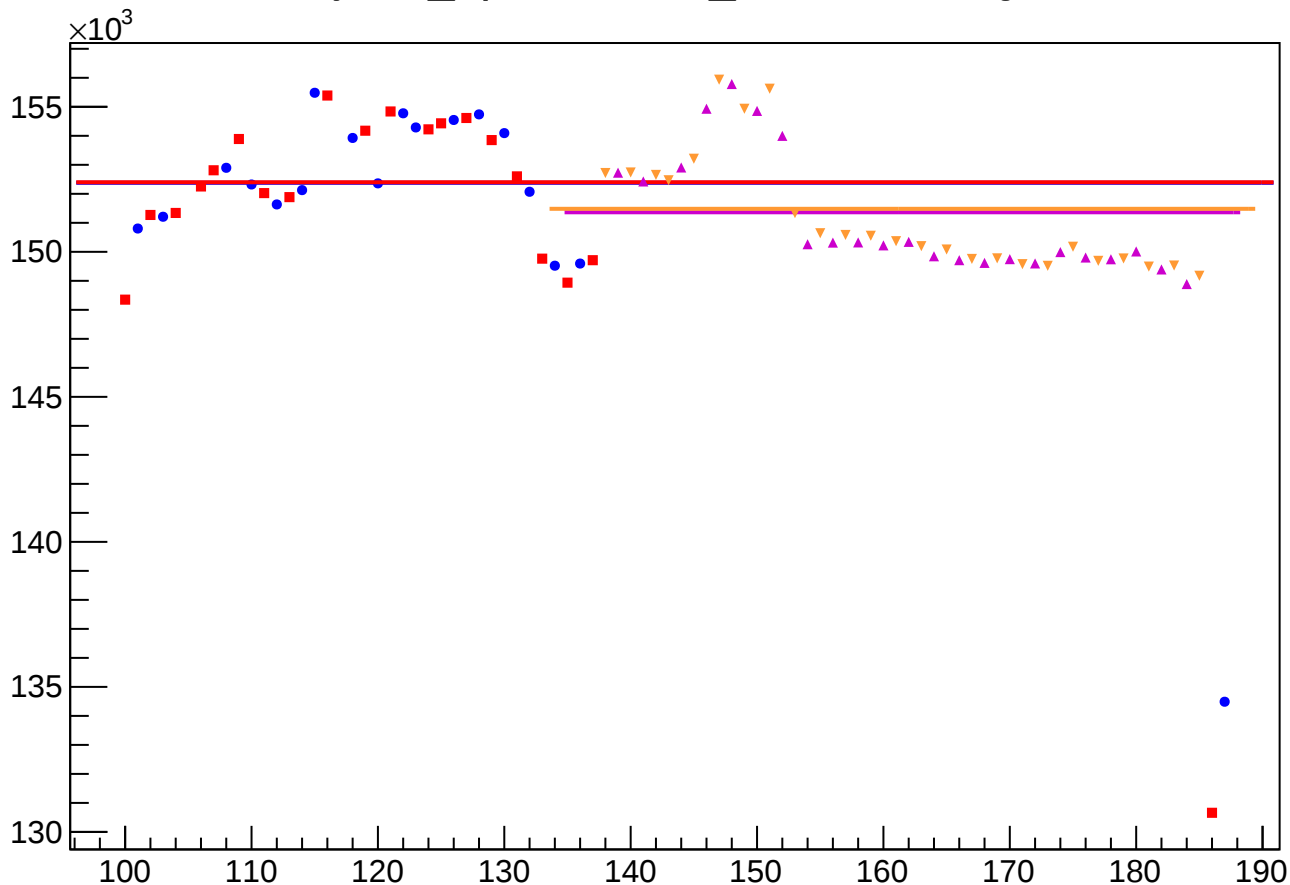
Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

+ sign 190.173 $\pm$ 0.028 χ^2 /NDF: 2385109.7/42

All: 187.949 $\pm$ 0.020 χ^2 /NDF: 5246026.9/85

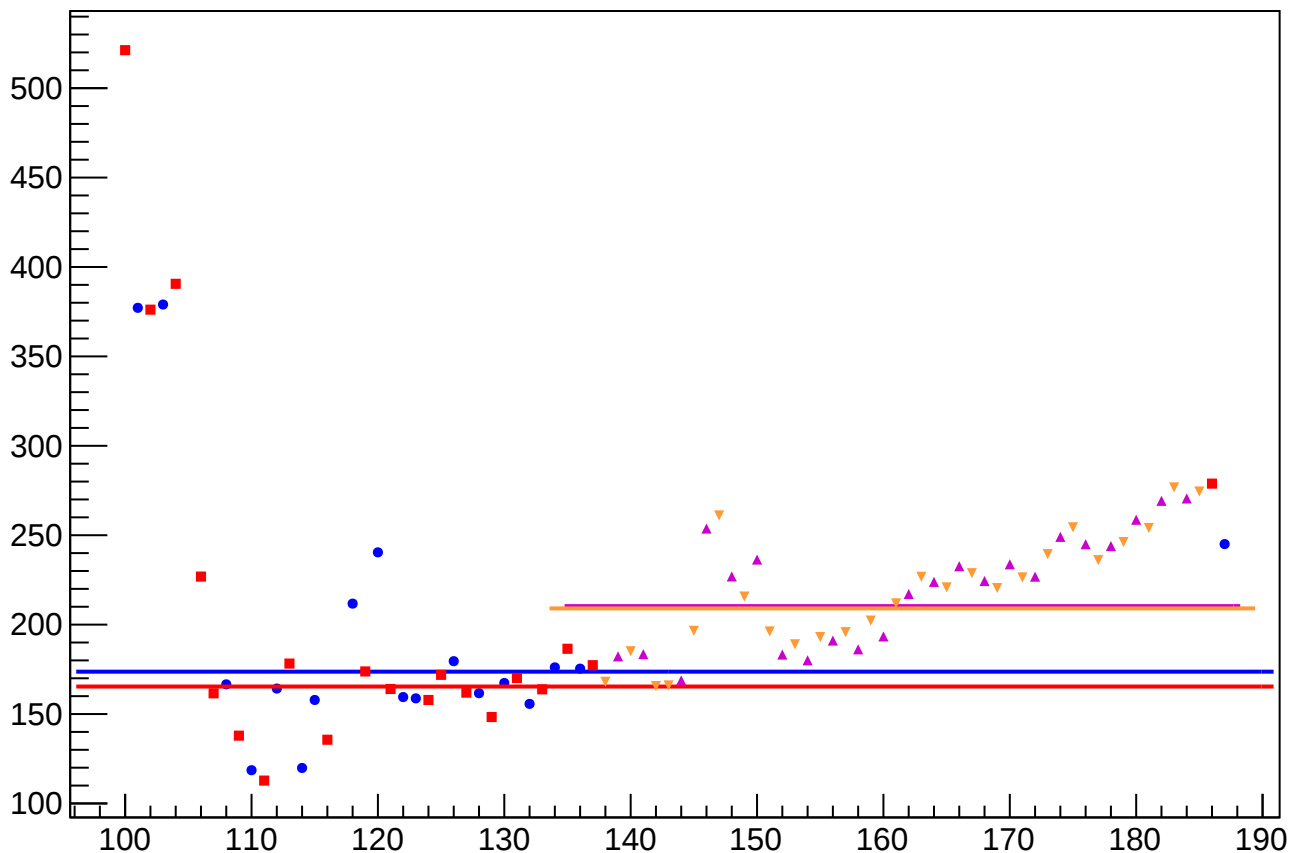
- sign 185.759 $\pm$ 0.028 χ^2 /NDF: 2848196.5/42

yield_bpm0i07WS_mean vs Slug



Right In: 152380.252 $\pm$ 0.072 χ^2 /NDF: 1394284120.3/17
 Left Out: 151483.385 $\pm$ 0.050 χ^2 /NDF: 1481910066.9/24
 Right Out: 152398.637 $\pm$ 0.066 χ^2 /NDF: 3077161503.7/19
 Left In: 151363.165 $\pm$ 0.051 χ^2 /NDF: 1421662089.0/22
 All: 151764.881 $\pm$ 0.029 χ^2 /NDF: 763531710
 + sign 151772.383 $\pm$ 0.041 χ^2 /NDF: 2981880522.9
 - sign 151757.497 $\pm$ 0.040 χ^2 /NDF: 4653369404.3

yield_bpm0i07WS_rms vs Slug



Right In: 173.697 $\pm$ 0.051 χ^2 /NDF: 970378.1/17

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 165.384 $\pm$ 0.046 χ^2 /NDF: 1160671.2/19

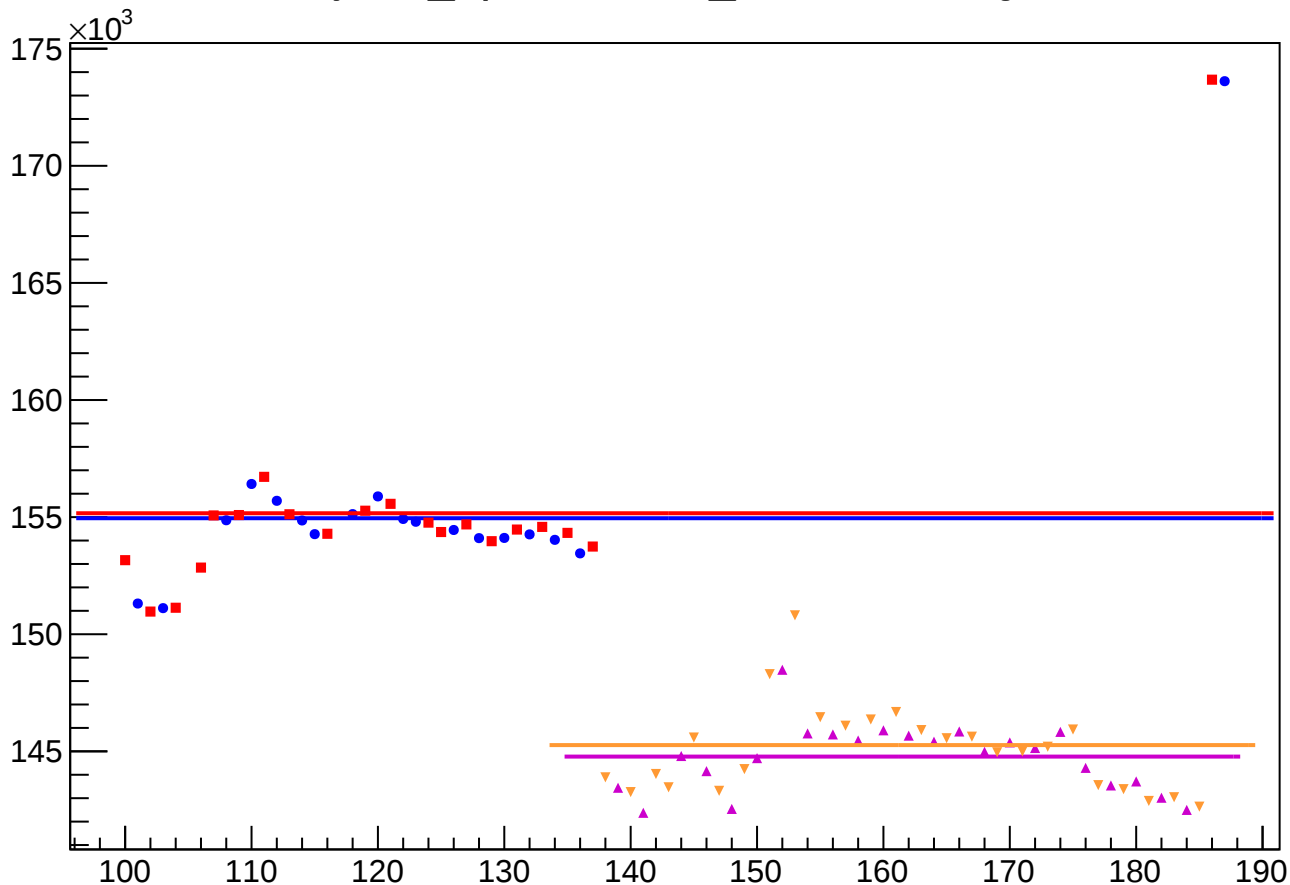
Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

+ sign 197.676 $\pm$ 0.029 χ^2 /NDF: 2007557.1/42

All: 195.431 $\pm$ 0.020 χ^2 /NDF: 4440742.6/85

- sign 193.223 $\pm$ 0.029 χ^2 /NDF: 2421161.1/42

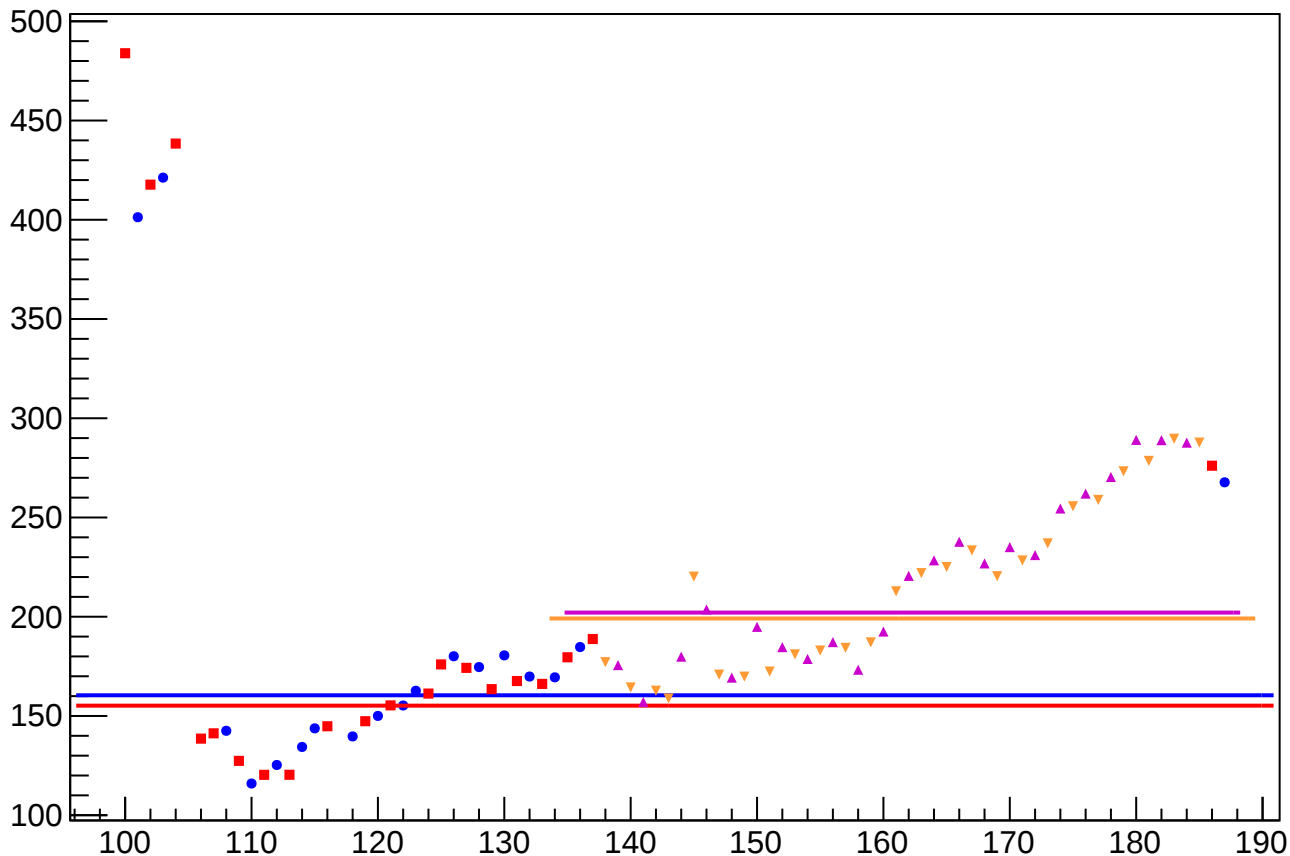
yield_bpm1i02WS_mean vs Slug



Right In: 154953.012 ± 0.065 $\chi^2/\text{NDF}: 1003515564.5/17$
 Left Out: 145266.717 ± 0.047 $\chi^2/\text{NDF}: 1717707352.7/24$
 Right Out: 155165.366 ± 0.060 $\chi^2/\text{NDF}: 2037123651.3/19$
 Left In: 144776.016 ± 0.050 $\chi^2/\text{NDF}: 918120275.4/22$

+ sign 148616.695 ± 0.038 $\chi^2/\text{NDF}: 17167587333.$
 All: 148788.980 ± 0.027 $\chi^2/\text{NDF}: 378651099$
 - sign 148960.967 ± 0.038 $\chi^2/\text{NDF}: 20657155494.4$

yield_bpm1i02WS_rms vs Slug



Right In: 160.426 $\pm$ 0.046 χ^2/NDF : 1180453.4/17

Left Out: 199.118 $\pm$ 0.034 χ^2/NDF : 1152231.0/24

Right Out: 155.201 $\pm$ 0.043 χ^2/NDF : 1318465.4/19

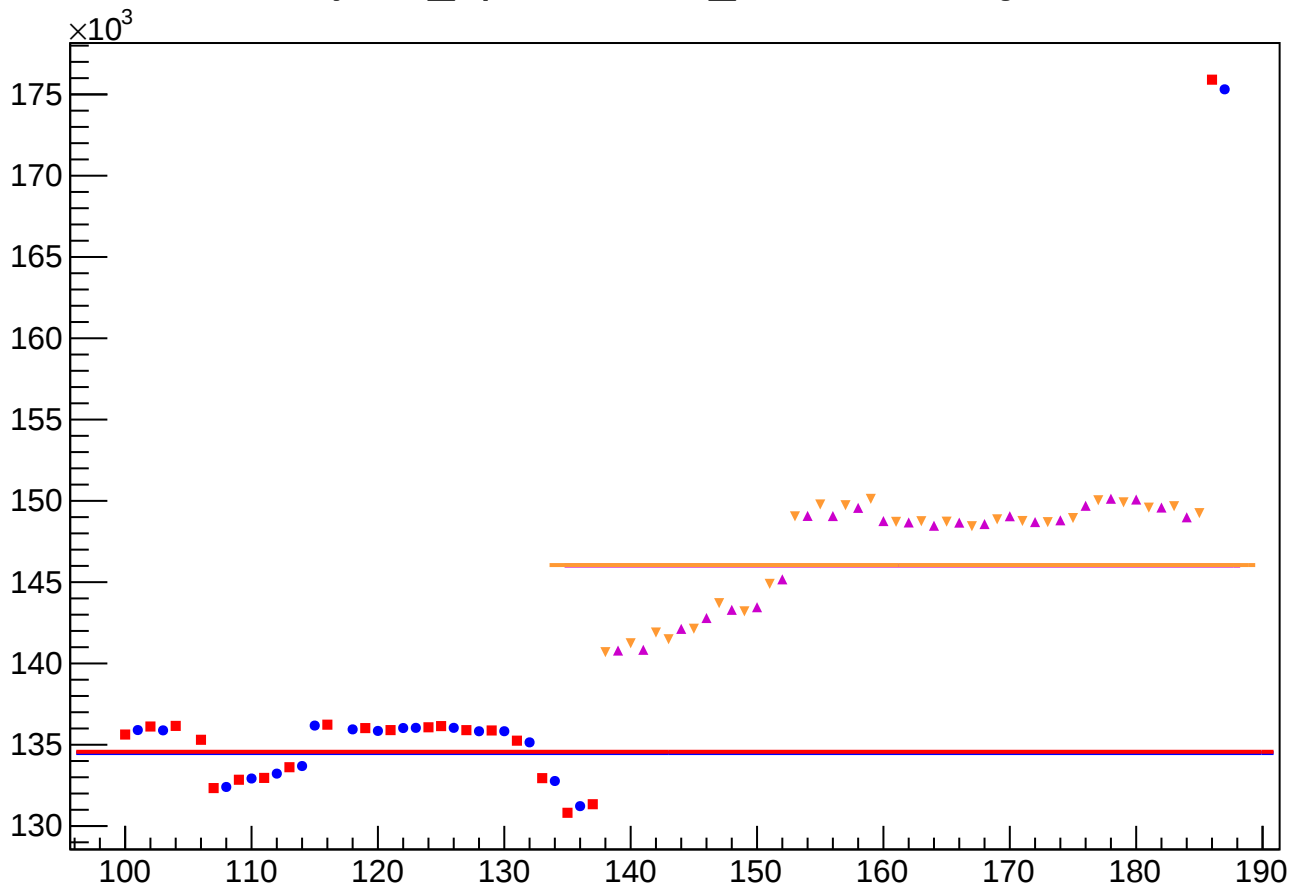
Left In: 202.090 $\pm$ 0.035 χ^2/NDF : 1057833.2/22

+ sign 185.736 $\pm$ 0.027 χ^2/NDF : 2793703.3/42

All: 184.468 $\pm$ 0.019 χ^2/NDF : 5895526.4/85

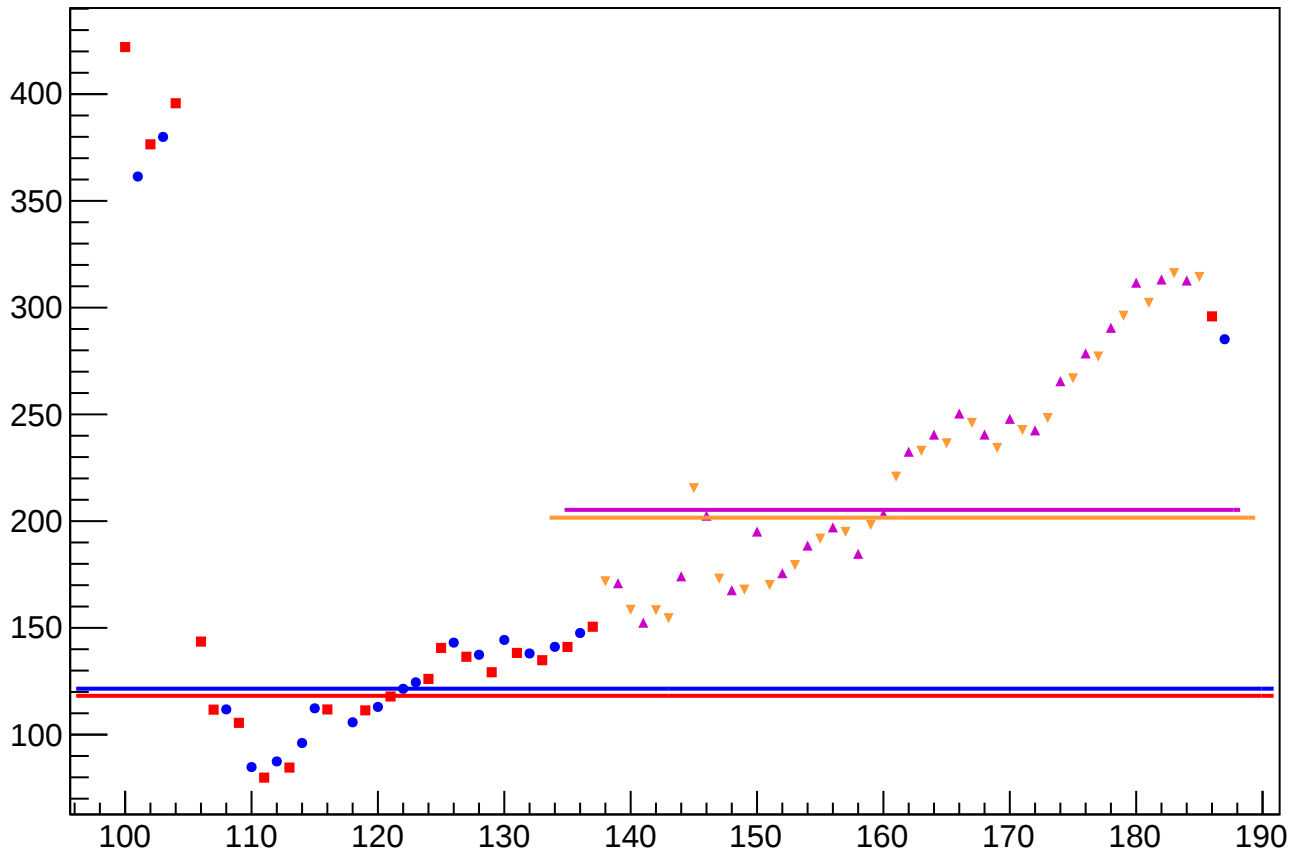
- sign 183.203 $\pm$ 0.027 χ^2/NDF : 3097449.5/42

yield_bpm1i04WS_mean vs Slug



Right In: 134488.933 $\pm$ 0.050 χ^2 /NDF: 4246589041.6/17
 Left Out: 146051.733 $\pm$ 0.048 χ^2 /NDF: 5403300123.1/24
 Right Out: 134567.970 $\pm$ 0.047 χ^2 /NDF: 8703609029.6/19
 Left In: 146020.015 $\pm$ 0.051 χ^2 /NDF: 4591425371.4/22
 All: 140191.788 $\pm$ 0.025 χ^2 /NDF: 779785197.6/24
 + sign 140501.918 $\pm$ 0.035 χ^2 /NDF: 37152350342.6/24
 - sign 139887.197 $\pm$ 0.035 χ^2 /NDF: 40669051820.6/24

yield_bpm1i04WS_rms vs Slug



Right In: 121.522 $\pm$ 0.036 χ^2 /NDF: 1564882.6/17

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF: 1589564.0/24

Right Out: 118.187 $\pm$ 0.033 χ^2 /NDF: 1812624.0/19

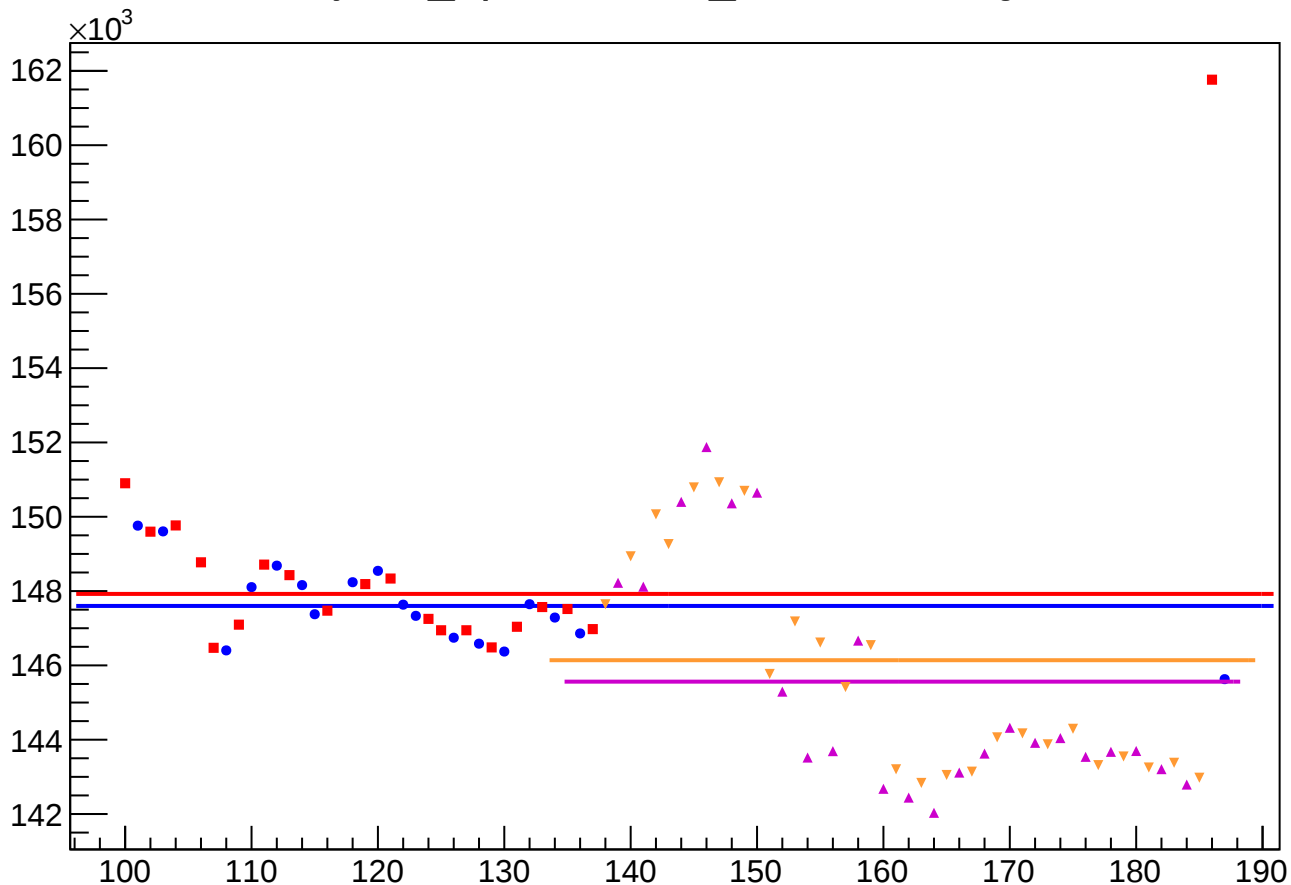
Left In: 205.286 $\pm$ 0.036 χ^2 /NDF: 1425292.7/22

+ sign 163.181 $\pm$ 0.025 χ^2 /NDF: 5794717.9/42

All: 160.891 $\pm$ 0.017 χ^2 /NDF: 12216650.9/85

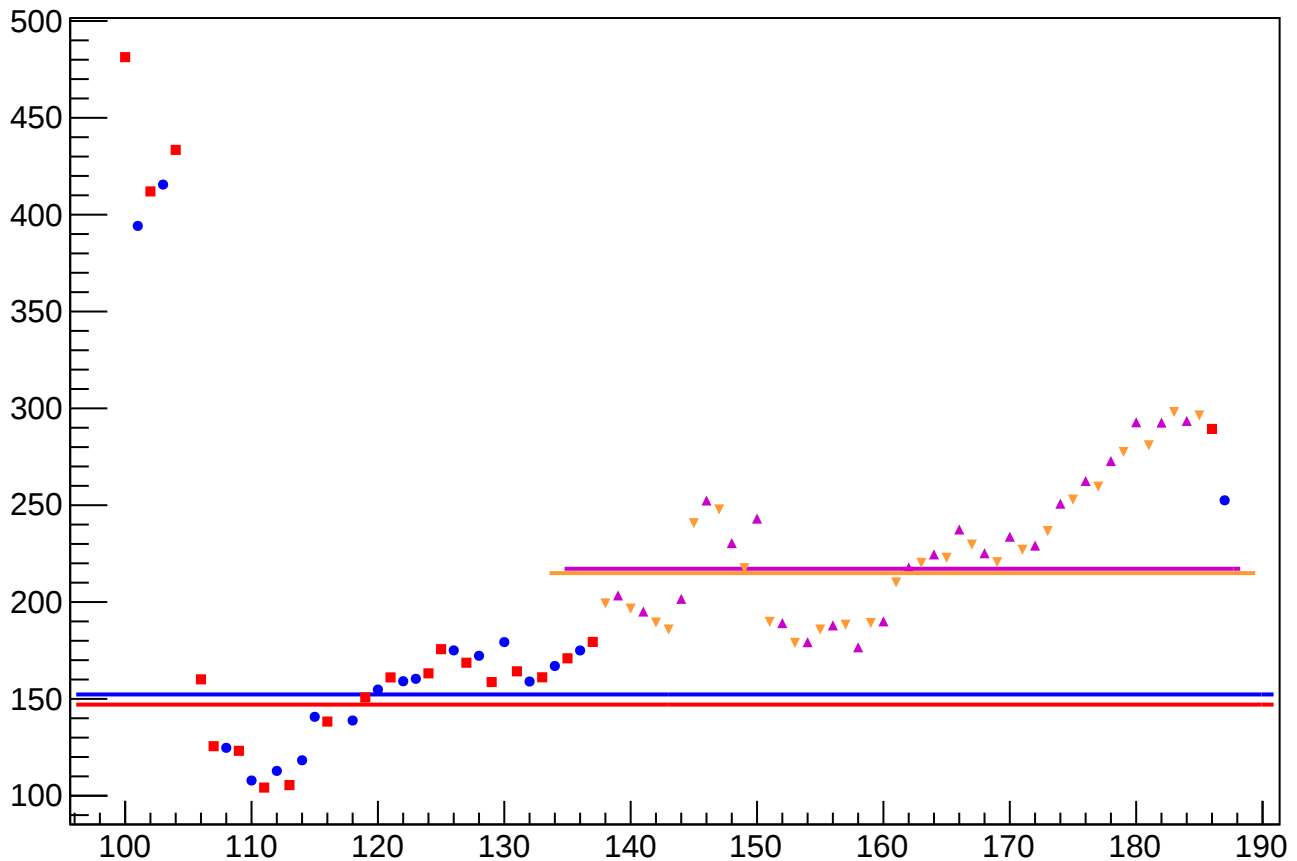
- sign 158.643 $\pm$ 0.024 χ^2 /NDF: 6404804.9/42

yield_bpm1i06WS_mean vs Slug



Right In: 147600.024 $\pm$ 0.062	χ^2 /NDF: 207831024.2/17	+ sign 146724.152 $\pm$ 0.039	χ^2 /NDF: 3237031293.1
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	All: 146681.963 $\pm$ 0.028	χ^2 /NDF: 828203187
Right Out: 147923.608 $\pm$ 0.058	χ^2 /NDF: 1084222245.5/19	- sign 146640.410 $\pm$ 0.039	χ^2 /NDF: 5042726935.4/
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22		

yield_bpm1i06WS_rms vs Slug



Right In: 152.289 $\pm$ 0.044 χ^2 /NDF: 1307665.0/17

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 147.063 $\pm$ 0.041 χ^2 /NDF: 1557504.1/19

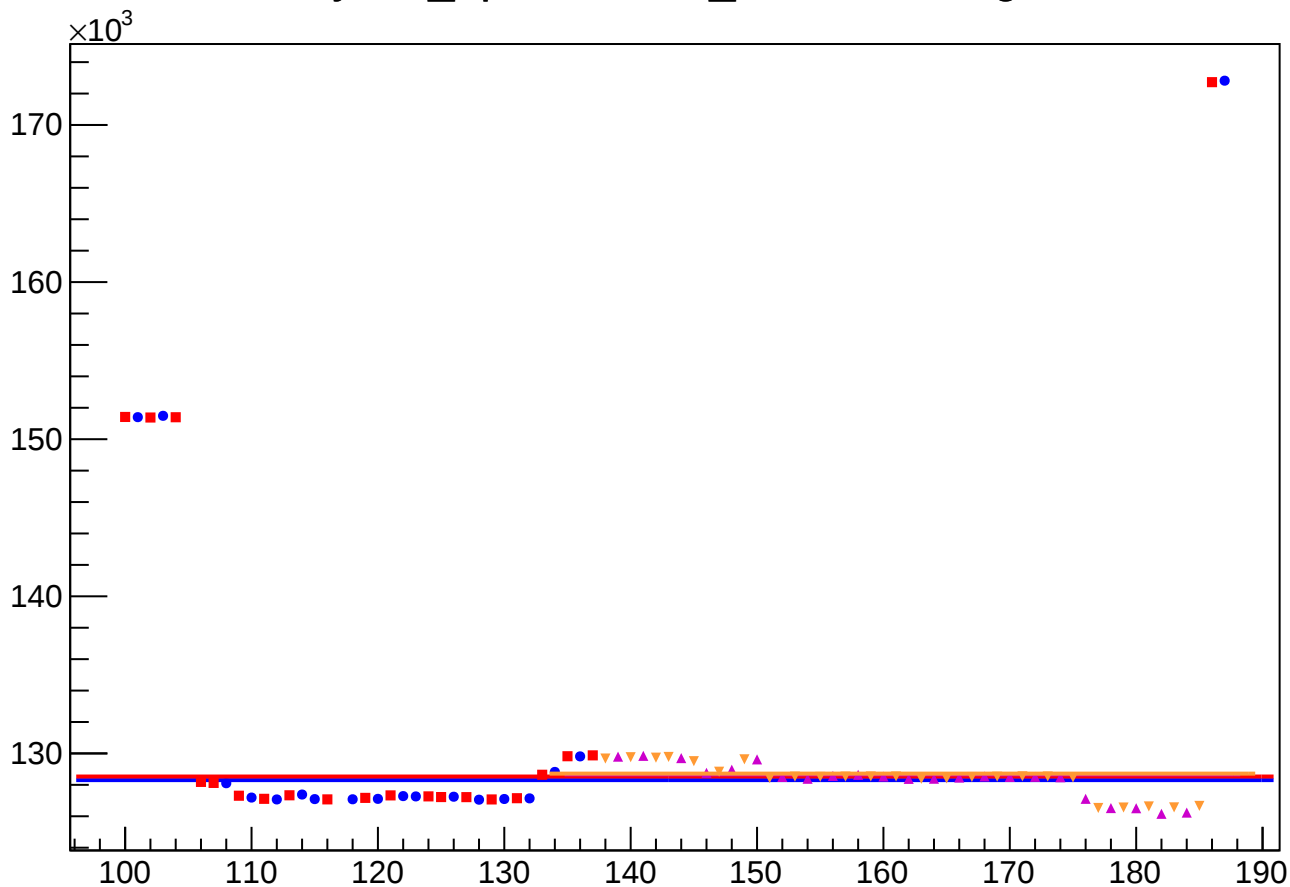
Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

+ sign 189.859 $\pm$ 0.028 χ^2 /NDF: 3249251.3/42

All: 187.502 $\pm$ 0.020 χ^2 /NDF: 7180884.0/85

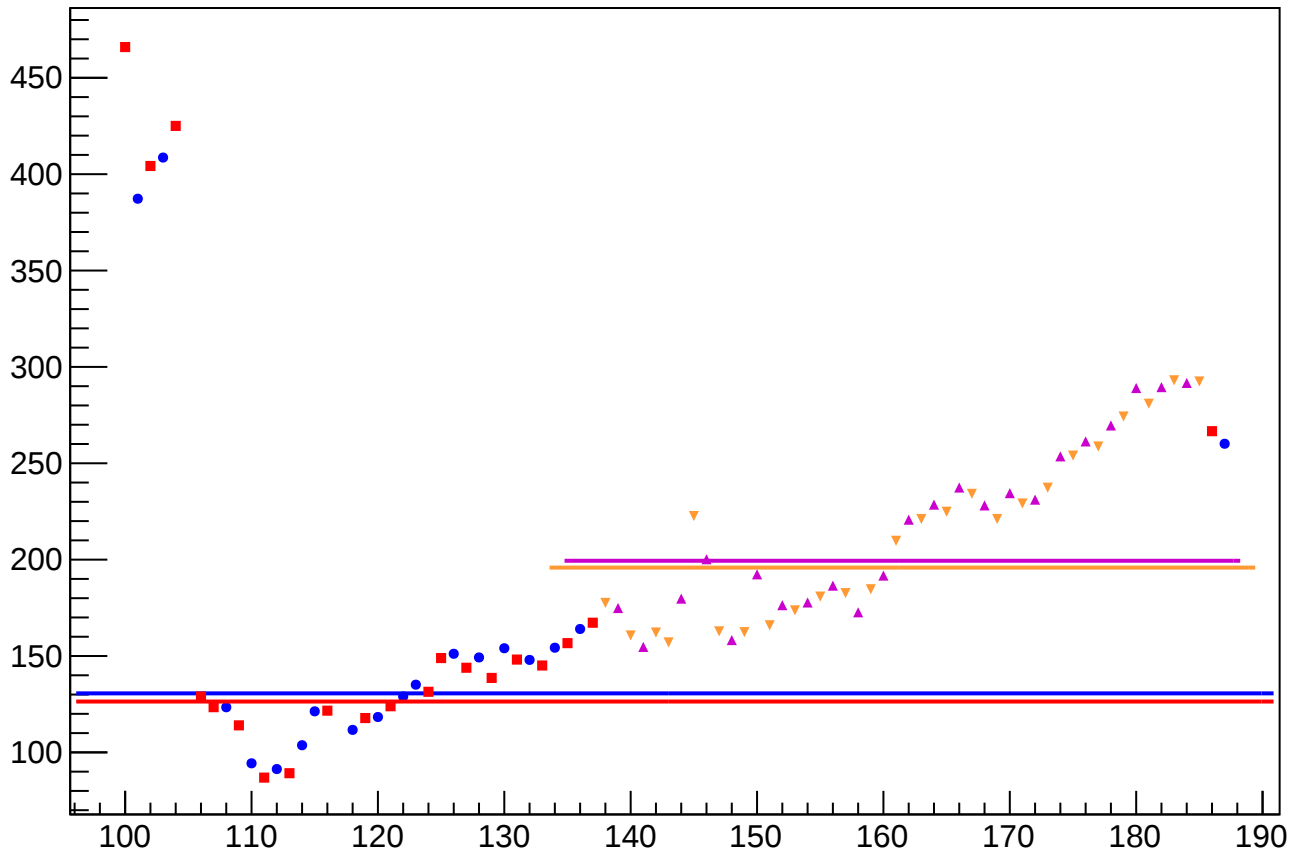
- sign 185.180 $\pm$ 0.028 χ^2 /NDF: 3917436.9/42

yield_bpm2i01WS_mean vs Slug



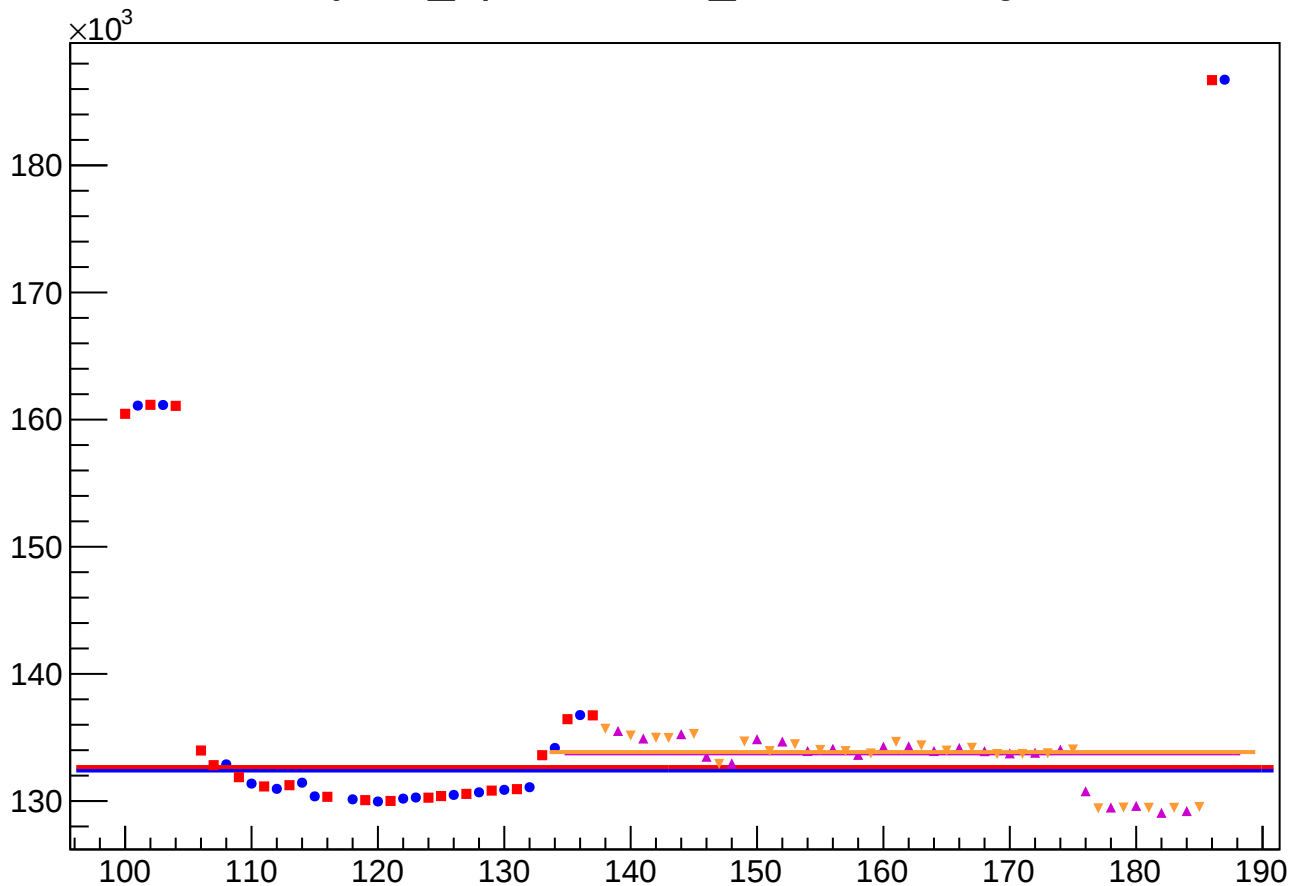
Right In: 128301.264 $\pm$ 0.054 χ^2 /NDF: 8761051550.8/17
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 128529.843 $\pm$ 0.050 χ^2 /NDF: 14341372109.8/19
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 + sign 128537.835 $\pm$ 0.035 χ^2 /NDF: 9142708723.5
 All: 128569.149 $\pm$ 0.025 χ^2 /NDF: 238225325
 - sign 128599.898 $\pm$ 0.035 χ^2 /NDF: 14678267079.7

yield_bpm2i01WS_rms vs Slug



Right In: 130.617 $\pm$ 0.038	χ^2 /NDF: 1558933.5/17	+ sign 167.980 $\pm$ 0.025	χ^2 /NDF: 4542497.3/42
Left Out: 195.883 $\pm$ 0.033	χ^2 /NDF: 1313361.5/24	All: 165.810 $\pm$ 0.018	χ^2 /NDF: 9637065.6/85
Right Out: 126.380 $\pm$ 0.035	χ^2 /NDF: 1739305.5/19	- sign 163.679 $\pm$ 0.025	χ^2 /NDF: 5079616.7/42
Left In: 199.413 $\pm$ 0.035	χ^2 /NDF: 1165698.7/22		

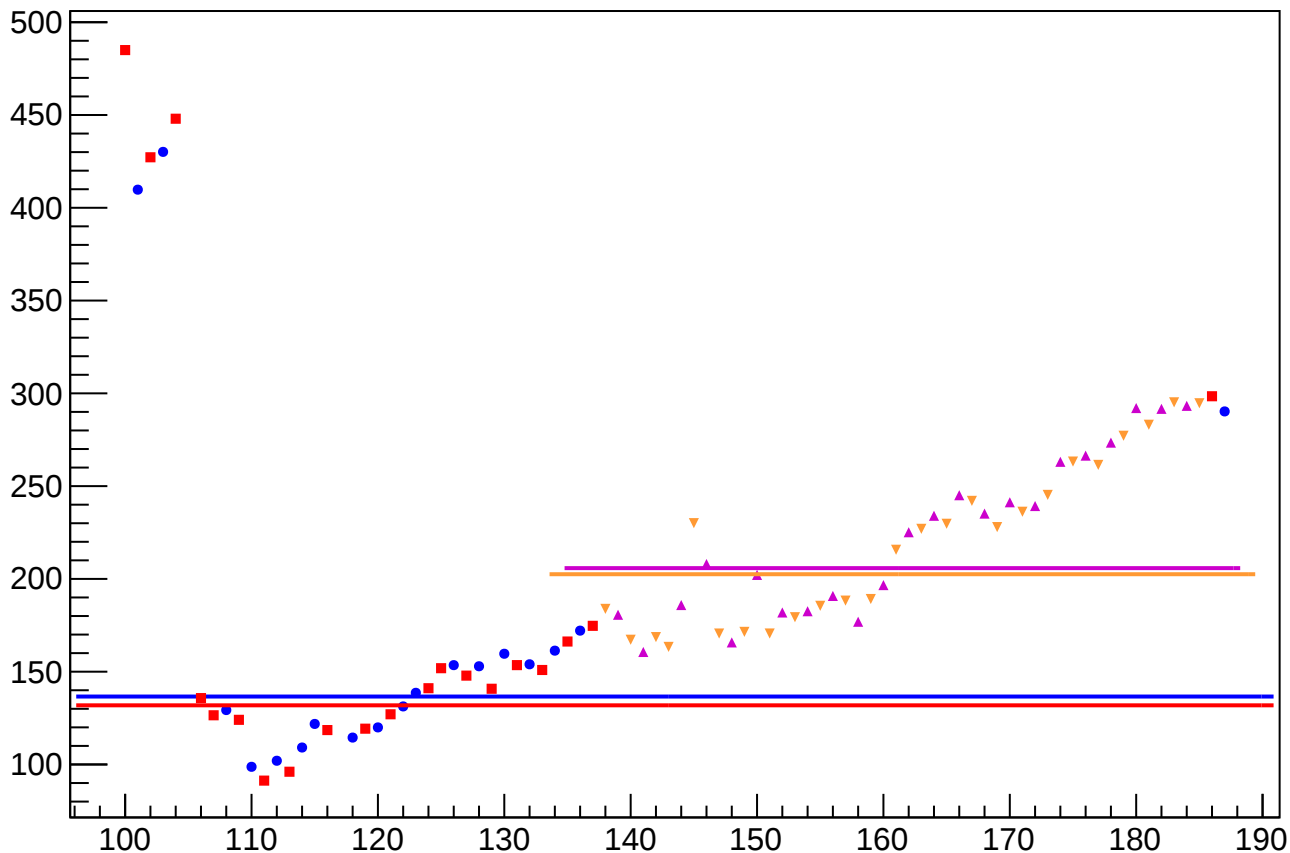
yield_bpm2i02WS_mean vs Slug



Right In: 132401.703 ± 0.056 $\chi^2/\text{NDF}: 12044446837.5/17$
 Left Out: 133850.586 ± 0.048 $\chi^2/\text{NDF}: 1080107831.1/24$
 Right Out: 132674.496 ± 0.052 $\chi^2/\text{NDF}: 18485474706.3/19$
 Left In: 133749.630 ± 0.051 $\chi^2/\text{NDF}: 954069486.7/22$

+ sign 133239.338 ± 0.037 $\chi^2/\text{NDF}: 13505428318.1/24$
 All: 133234.637 ± 0.026 $\chi^2/\text{NDF}: 331639361.1/24$
 - sign 133230.025 ± 0.036 $\chi^2/\text{NDF}: 19658475273.1/24$

yield_bpm2i02WS_rms vs Slug



Right In: 136.611 $\pm$ 0.040 χ^2 /NDF: 1527520.5/17

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF: 1211991.5/24

Right Out: 131.874 $\pm$ 0.037 χ^2 /NDF: 1738329.1/19

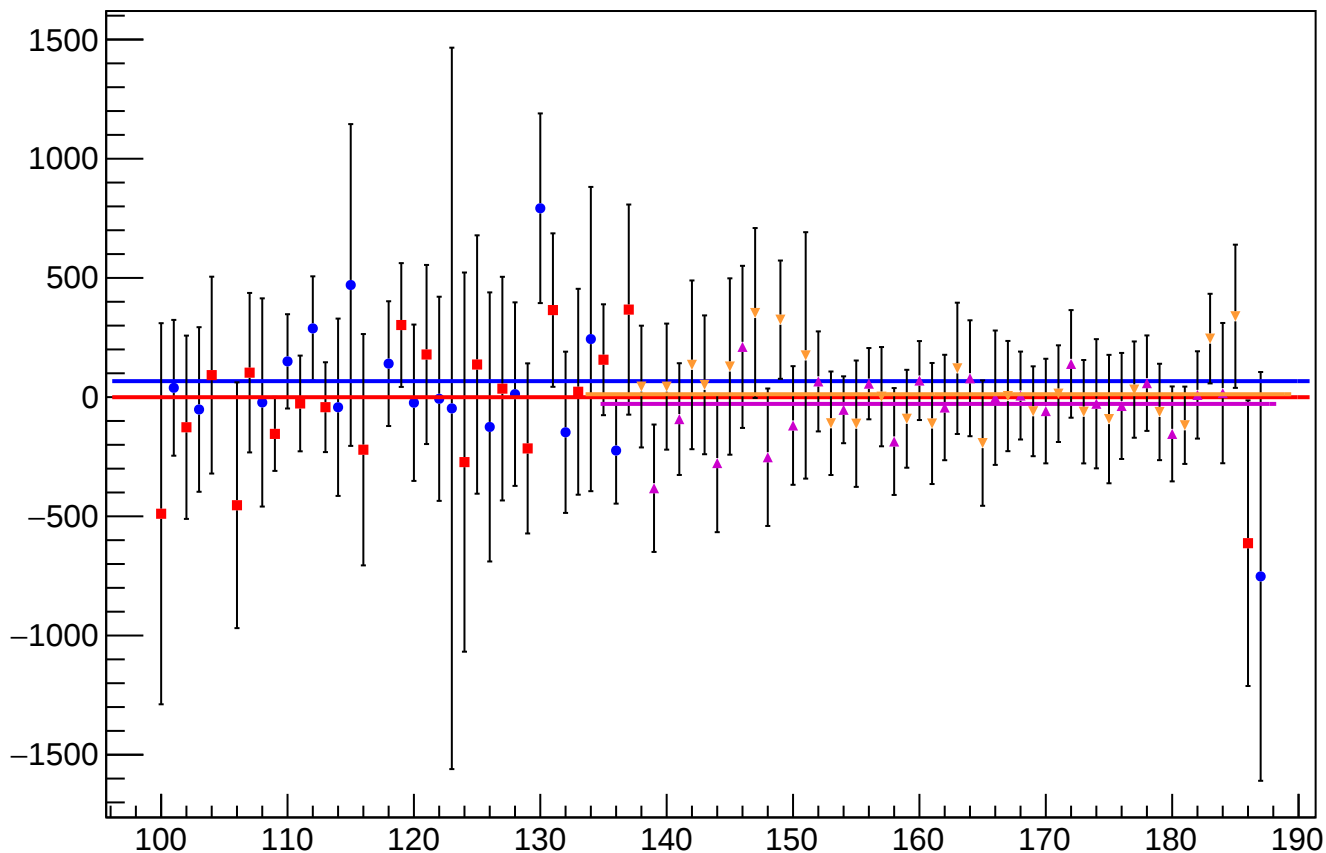
Left In: 205.808 $\pm$ 0.036 χ^2 /NDF: 1094330.7/22

+ sign 174.719 $\pm$ 0.026 χ^2 /NDF: 4316125.9/42

All: 172.375 $\pm$ 0.018 χ^2 /NDF: 9235583.0/85

- sign 170.076 $\pm$ 0.026 χ^2 /NDF: 4903267.1/42

asym_bcm_an_ds_mean vs Slug



Right In: 67.041 ± 78.896 χ^2/NDF : 8.6/17

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -0.333 ± 69.605 χ^2/NDF : 8.3/19

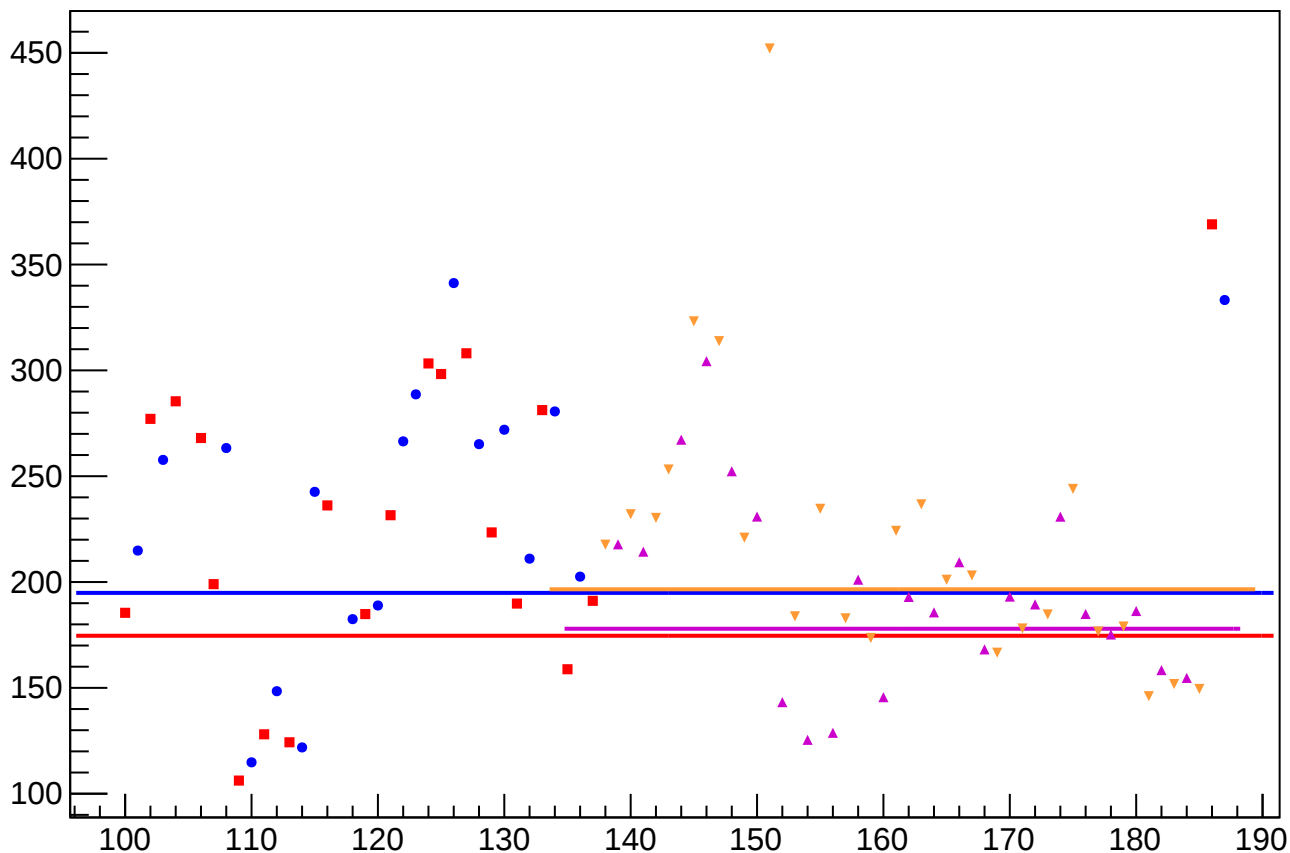
Left In: -28.452 ± 44.688 χ^2/NDF : 6.7/22

+ sign 26.789 ± 40.713 χ^2/NDF : 17.5/42

All: 1.409 ± 27.624 χ^2/NDF : 33.3/85

- sign -20.244 ± 37.605 χ^2/NDF : 15.1/42

asym_bcm_an_ds_rms vs Slug



Right In: 194.877 $\pm$ 0.056 χ^2 /NDF: 1070573.5/17

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF: 1778719.0/24

Right Out: 174.623 $\pm$ 0.049 χ^2 /NDF: 1787822.7/19

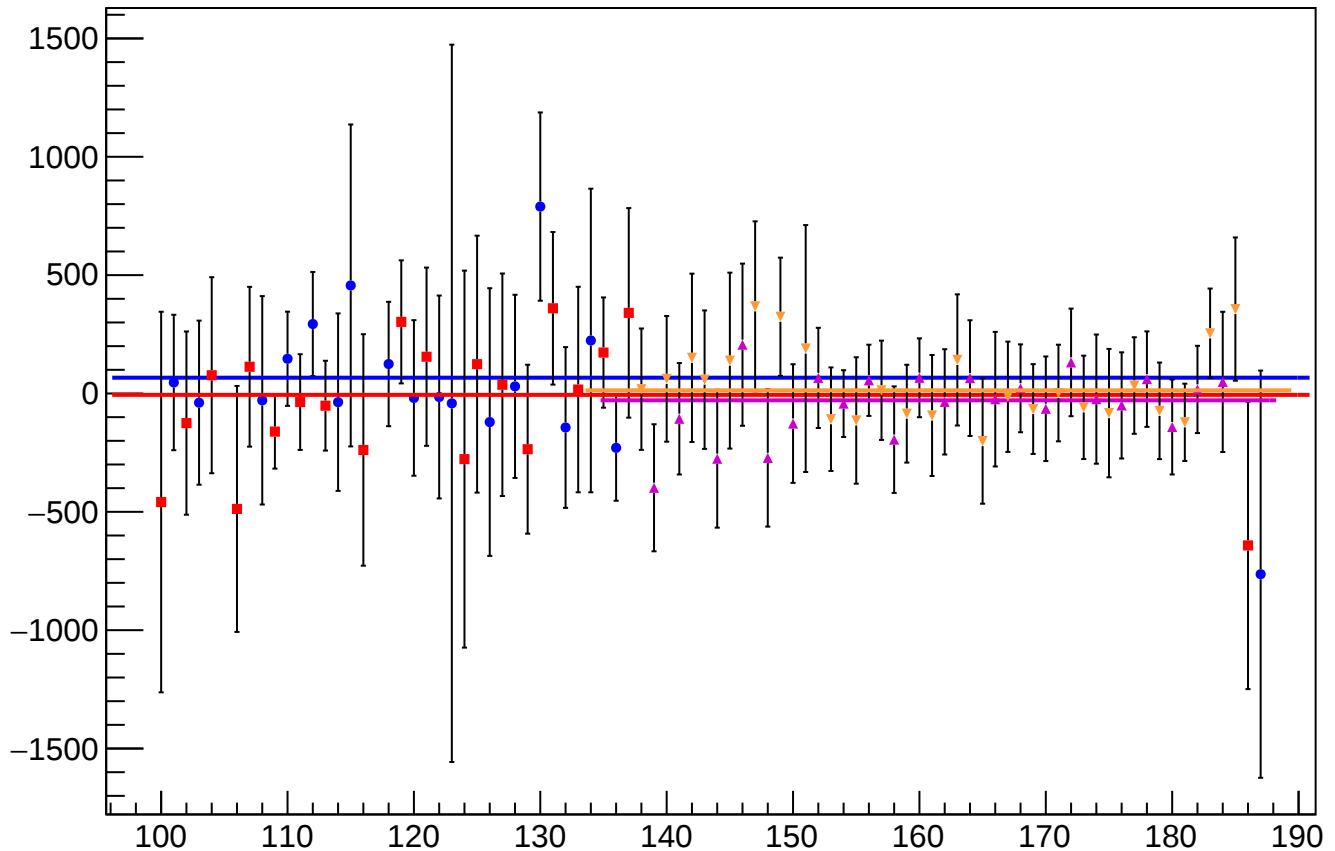
Left In: 177.933 $\pm$ 0.032 χ^2 /NDF: 1605780.8/22

+ sign 196.124 $\pm$ 0.029 χ^2 /NDF: 2849973.1/42

All: 185.786 $\pm$ 0.020 χ^2 /NDF: 6485724.3/85

- sign 176.967 $\pm$ 0.027 χ^2 /NDF: 3396806.1/42

asym_bcm_an_ds3_mean vs Slug



Right In: 66.709 ± 79.281 χ^2/NDF : 8.5/17

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -5.845 ± 69.980 χ^2/NDF : 8.5/19

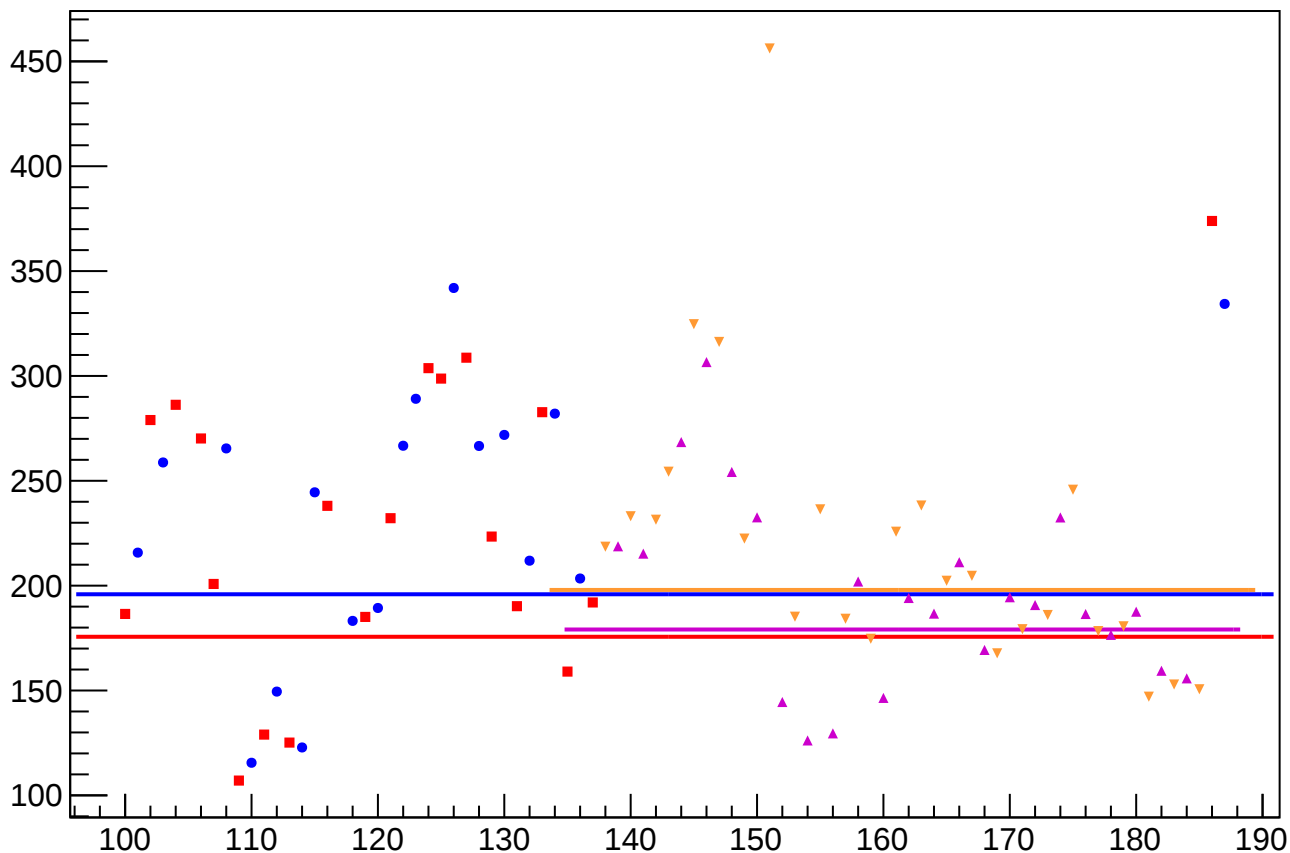
Left In: -28.806 ± 44.980 χ^2/NDF : 6.8/22

+ sign 27.635 ± 40.974 χ^2/NDF : 17.8/42

All: 0.795 ± 27.798 χ^2/NDF : 34.0/85

- sign -22.093 ± 37.838 χ^2/NDF : 15.4/42

asym_bcm_an_ds3_rms vs Slug



Right In: 195.891 $\pm$ 0.056 χ^2 /NDF: 1061866.0/17

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF: 1774524.3/24

Right Out: 175.623 $\pm$ 0.049 χ^2 /NDF: 1778387.4/19

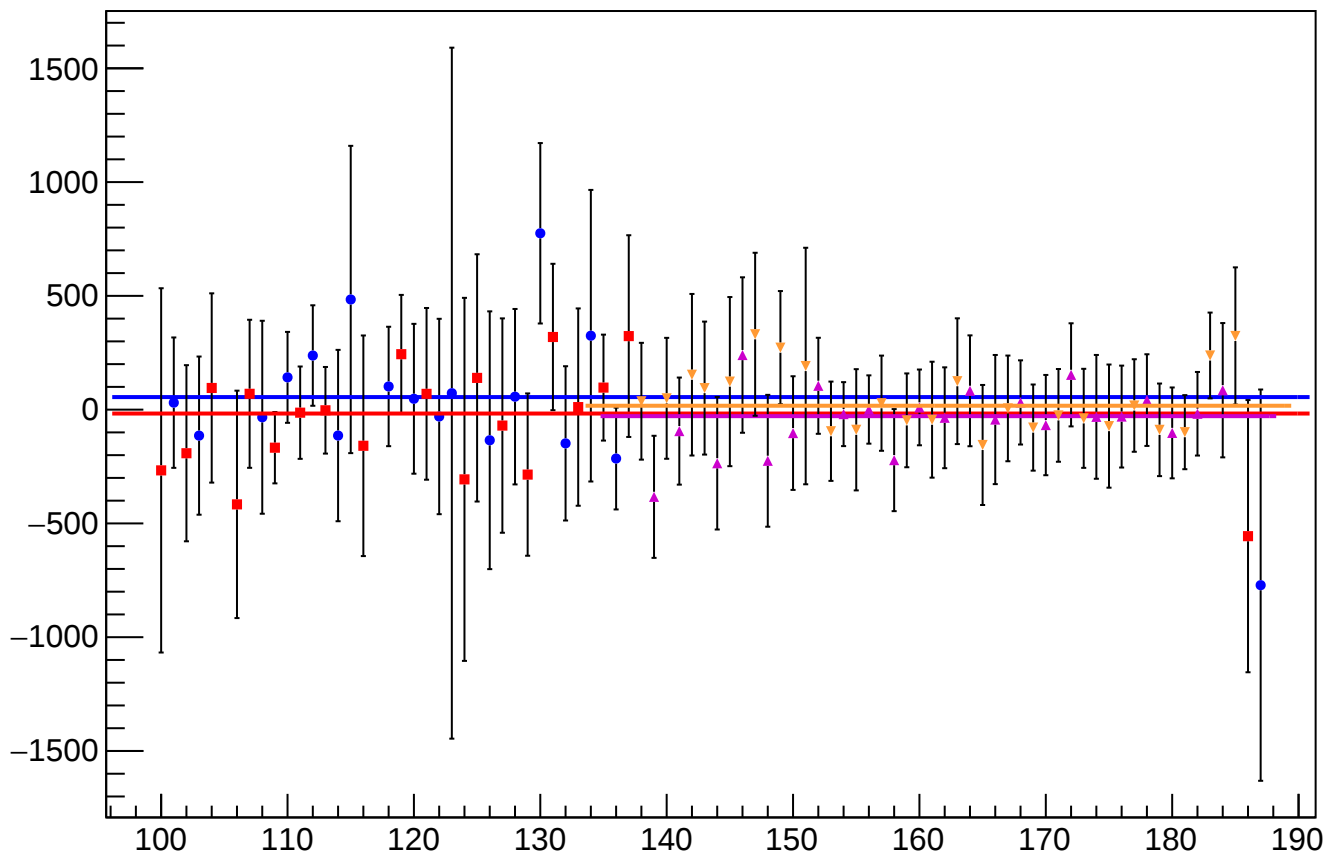
Left In: 179.090 $\pm$ 0.032 χ^2 /NDF: 1605113.3/22

+ sign 197.402 $\pm$ 0.029 χ^2 /NDF: 2837382.1/42

All: 186.971 $\pm$ 0.020 χ^2 /NDF: 6464487.0/85

- sign 178.076 $\pm$ 0.027 χ^2 /NDF: 3386973.4/42

asym_bcm_an_us_mean vs Slug



Right In: 55.197 $\pm$ 79.277 χ^2 /NDF: 8.2/17

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: -17.123 $\pm$ 69.890 χ^2 /NDF: 6.7/19

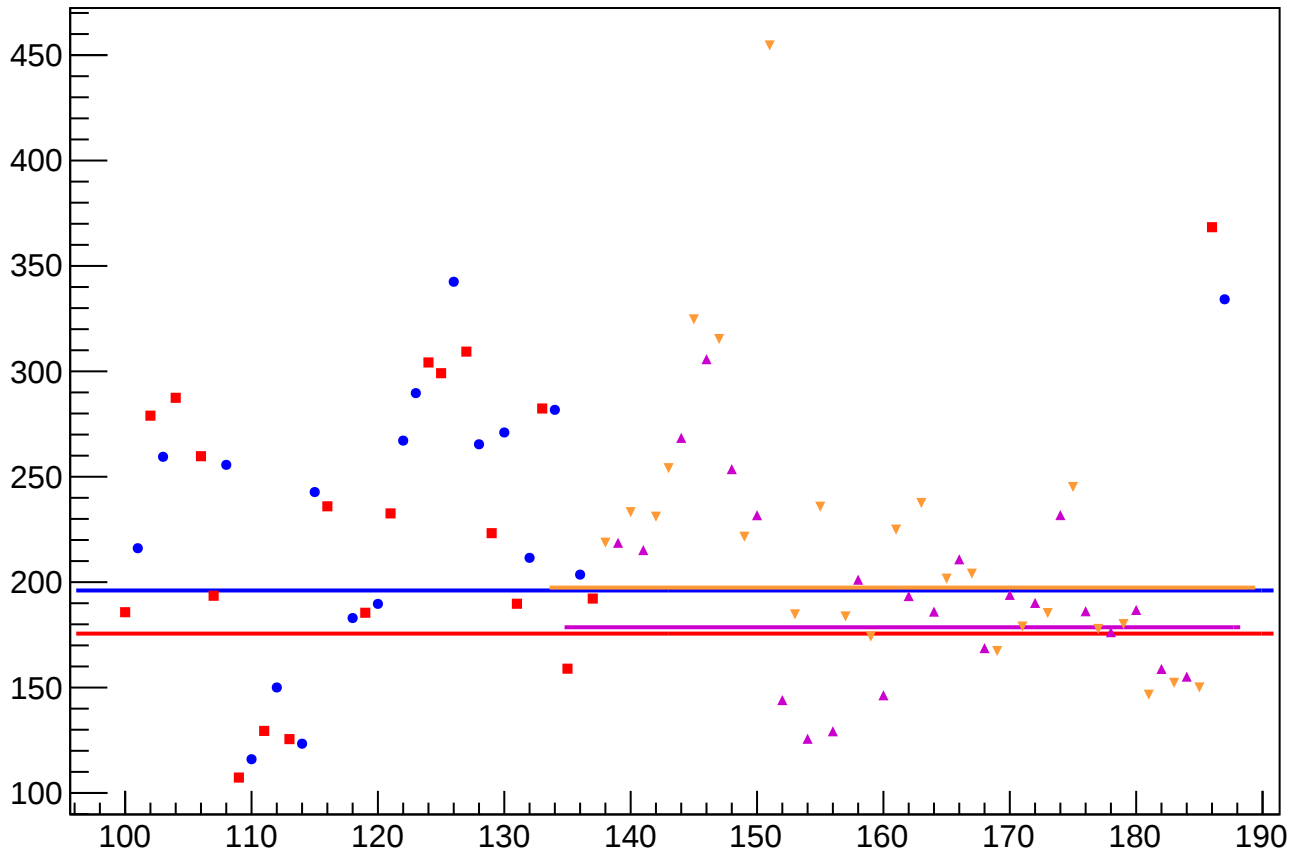
Left In: -28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

+ sign 27.268 $\pm$ 40.896 χ^2 /NDF: 15.4/42

All: -1.109 $\pm$ 27.739 χ^2 /NDF: 29.1/85

- sign -25.291 $\pm$ 37.752 χ^2 /NDF: 12.8/42

asym_bcm_an_us_rms vs Slug



Right In: 196.053 $\pm$ 0.056 χ^2 /NDF: 1039608.4/17

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF: 1780261.9/24

Right Out: 175.597 $\pm$ 0.049 χ^2 /NDF: 1749789.5/19

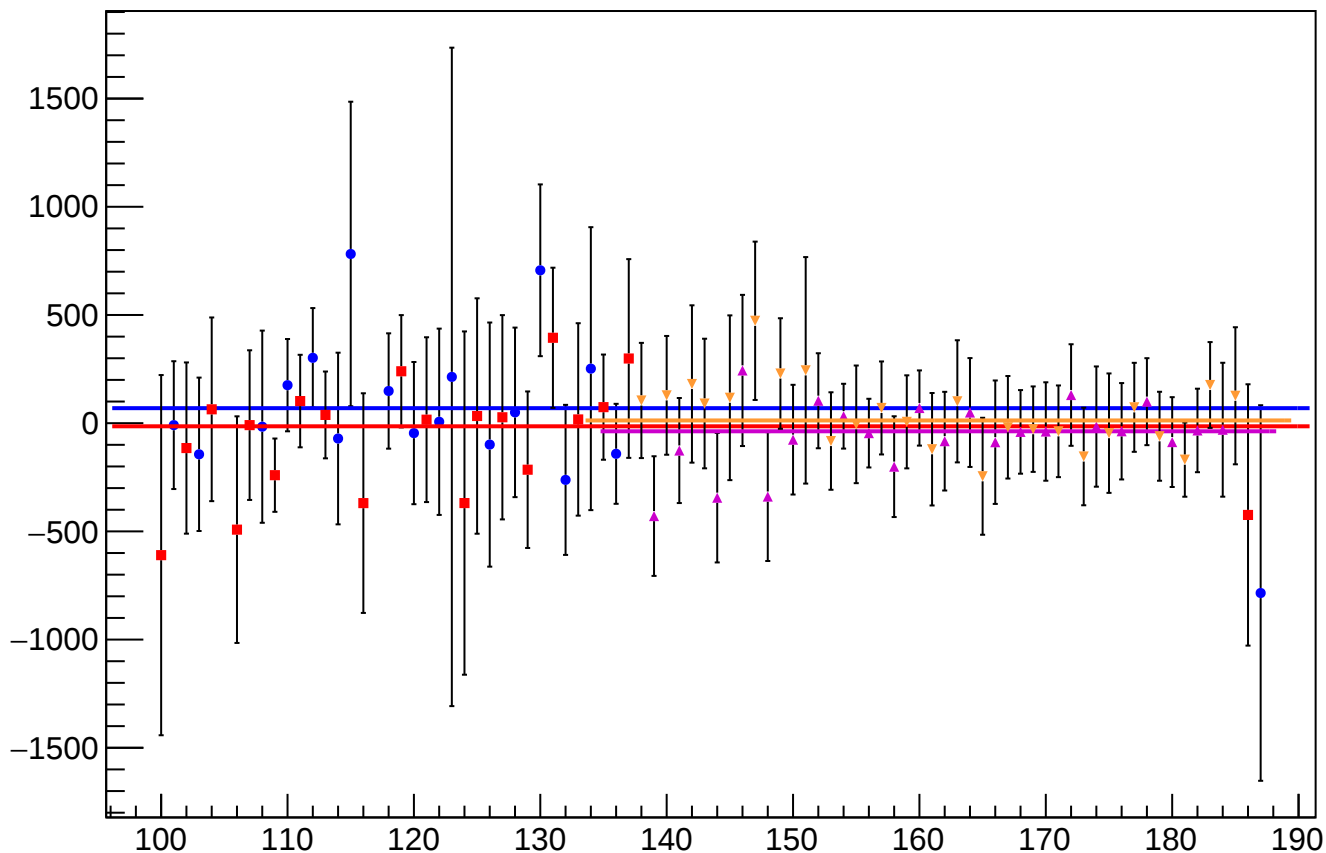
Left In: 178.601 $\pm$ 0.032 χ^2 /NDF: 1608998.1/22

+ sign 197.057 $\pm$ 0.029 χ^2 /NDF: 2820307.9/42

All: 186.619 $\pm$ 0.020 χ^2 /NDF: 6423031.5/85

- sign 177.725 $\pm$ 0.027 χ^2 /NDF: 3361405.7/42

asym_bcm_dg_us_mean vs Slug



Right In: 69.384 ± 81.733 χ^2/NDF : 8.6/17

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -14.406 ± 72.791 χ^2/NDF : 8.2/19

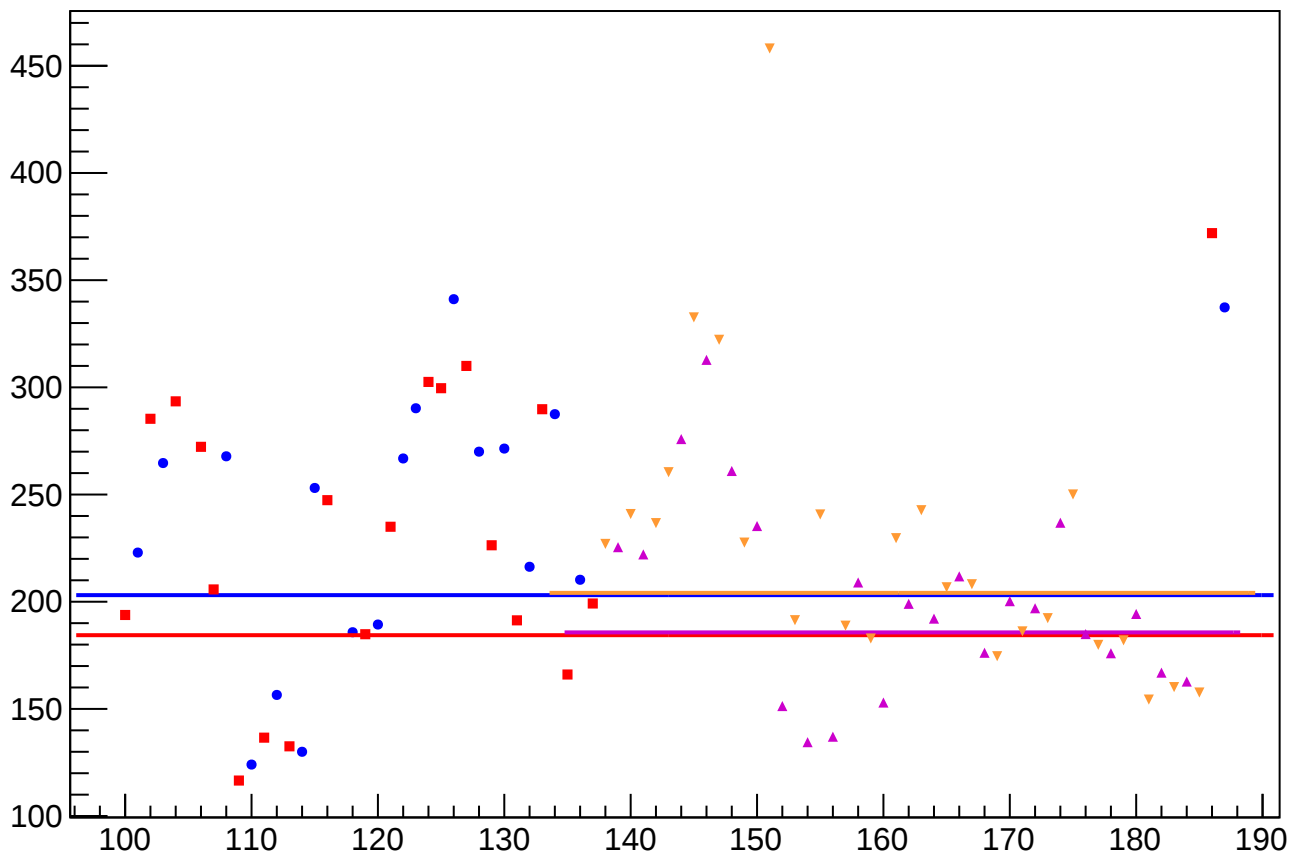
Left In: -37.460 ± 46.479 χ^2/NDF : 7.6/22

+ sign 27.746 ± 42.179 χ^2/NDF : 16.5/42

All: -3.677 ± 28.704 χ^2/NDF : 33.4/85

- sign -30.783 ± 39.174 χ^2/NDF : 15.9/42

asym_bcm_dg_us_rms vs Slug



Right In: 203.074 $\pm$ 0.058 χ^2 /NDF: 932688.9/17

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 184.392 $\pm$ 0.051 χ^2 /NDF: 1569198.0/19

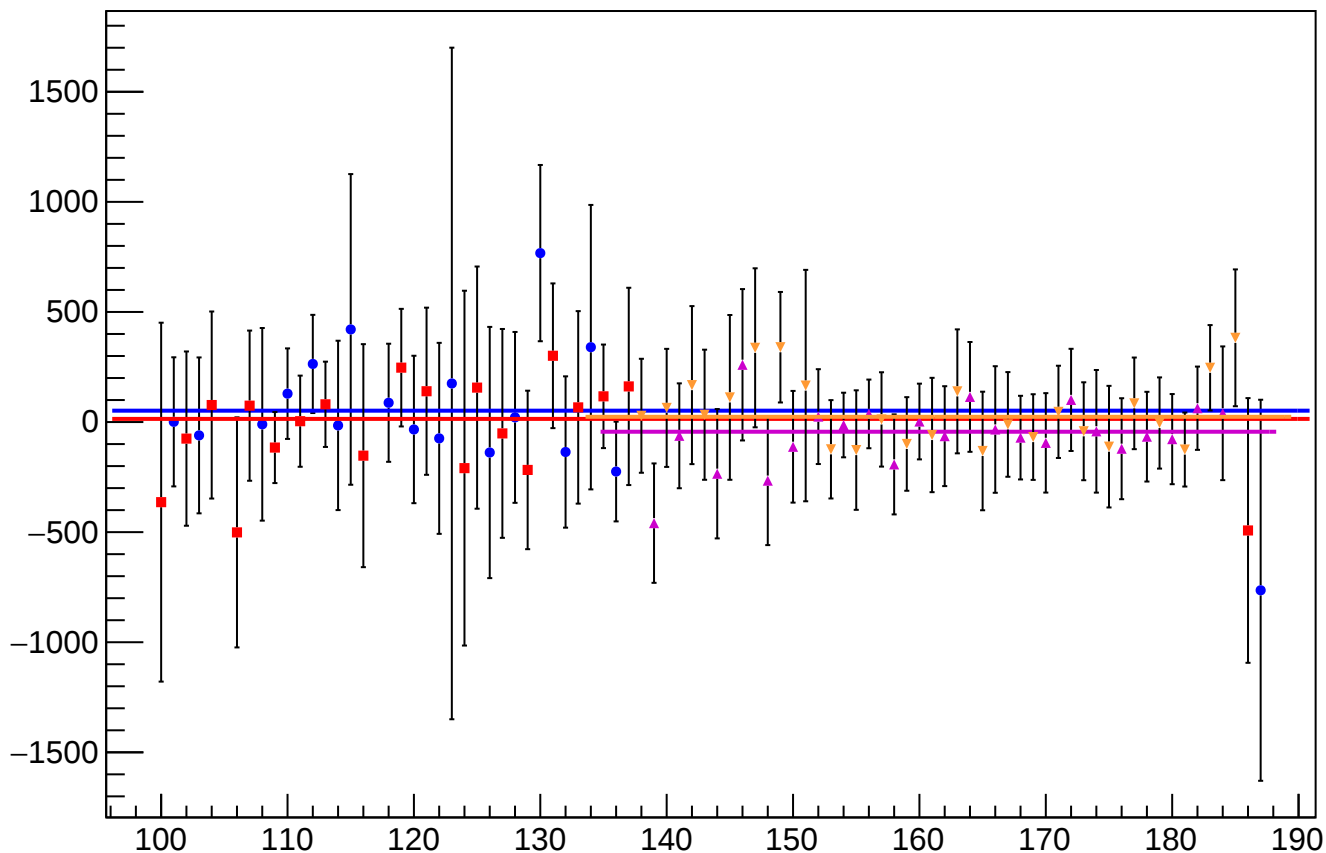
Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

+ sign 203.850 $\pm$ 0.030 χ^2 /NDF: 2605222.1/42

All: 193.900 $\pm$ 0.020 χ^2 /NDF: 5829963.0/85

- sign 185.317 $\pm$ 0.028 χ^2 /NDF: 3017419.4/42

asym_bcm_dg_ds_mean vs Slug



Right In: 51.681 ± 80.683 χ^2/NDF : 7.9/17

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: 14.314 ± 71.371 χ^2/NDF : 5.4/19

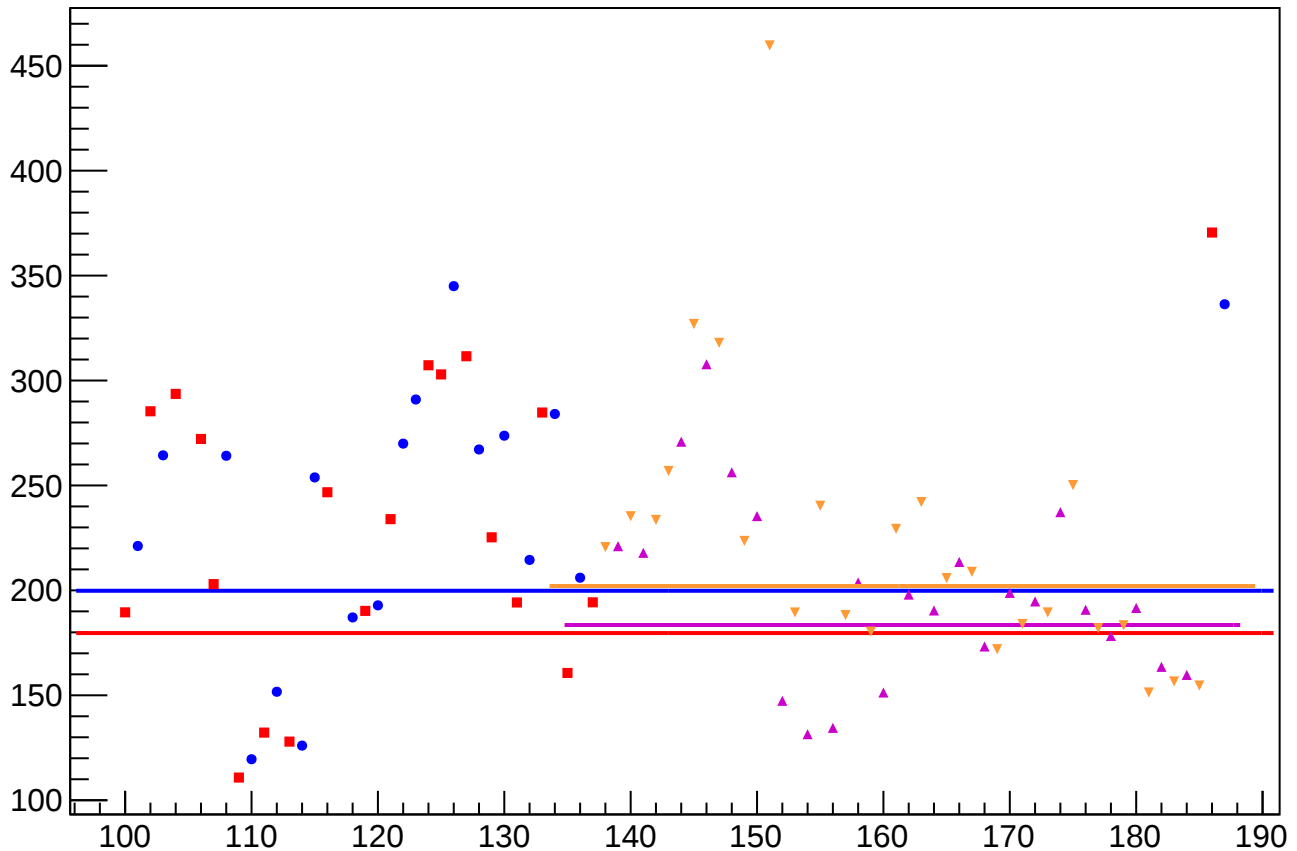
Left In: -43.978 ± 45.981 χ^2/NDF : 6.5/22

+ sign 31.295 ± 41.746 χ^2/NDF : 16.4/42

All: -0.027 ± 28.362 χ^2/NDF : 29.9/85

- sign -26.881 ± 38.654 χ^2/NDF : 12.4/42

asym_bcm_dg_ds_rms vs Slug



Right In: 199.812 $\pm$ 0.057 χ^2 /NDF: 1015305.1/17

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 179.662 $\pm$ 0.050 χ^2 /NDF: 1723930.9/19

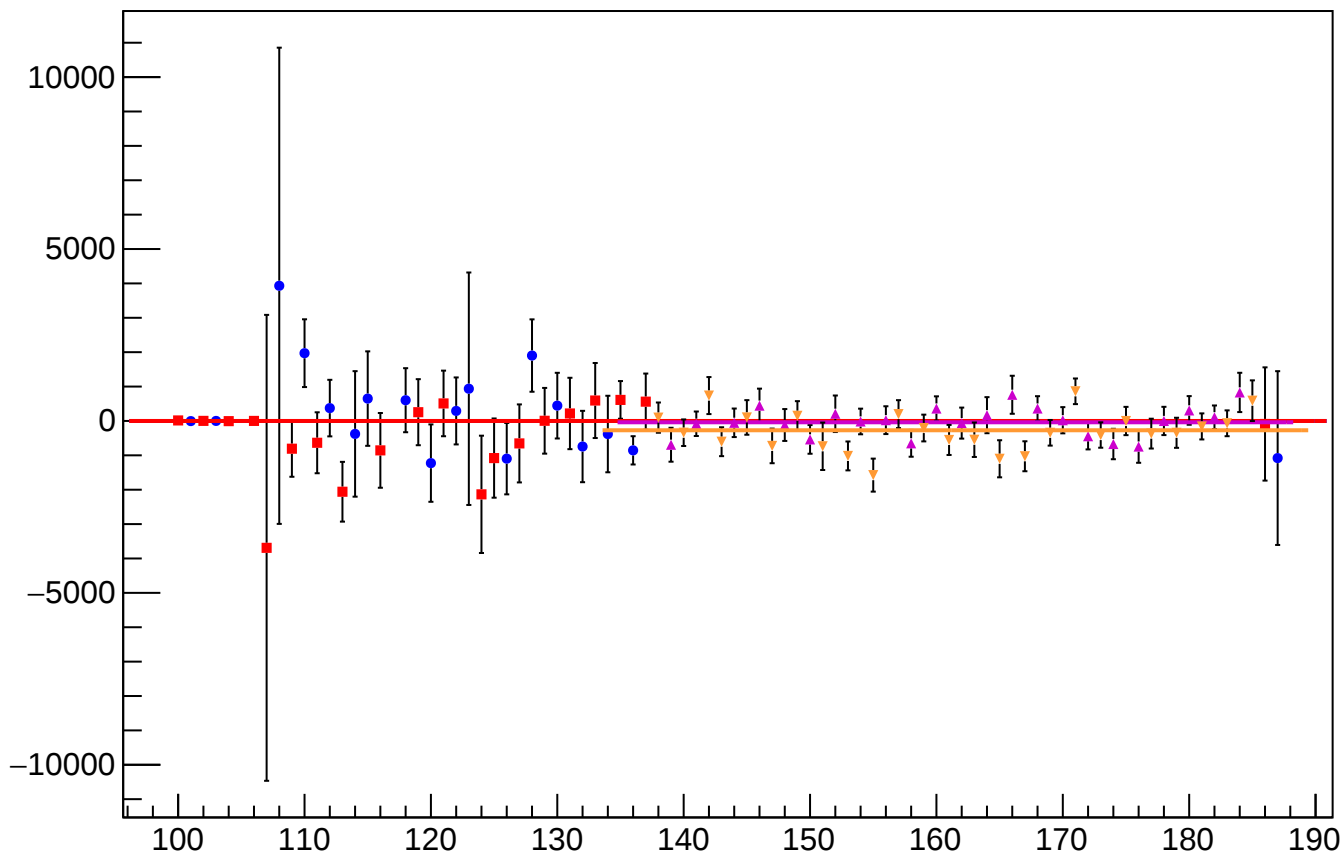
Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

+ sign 201.473 $\pm$ 0.030 χ^2 /NDF: 2709250.6/42

All: 191.190 $\pm$ 0.020 χ^2 /NDF: 6146072.8/85

- sign 182.373 $\pm$ 0.027 χ^2 /NDF: 3211397.6/42

asym_cav4bQ_mean vs Slug



Right In: -1.530 ± 2.251 χ^2/NDF : 17.6/17

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: -0.726 ± 2.111 χ^2/NDF : 19.1/19

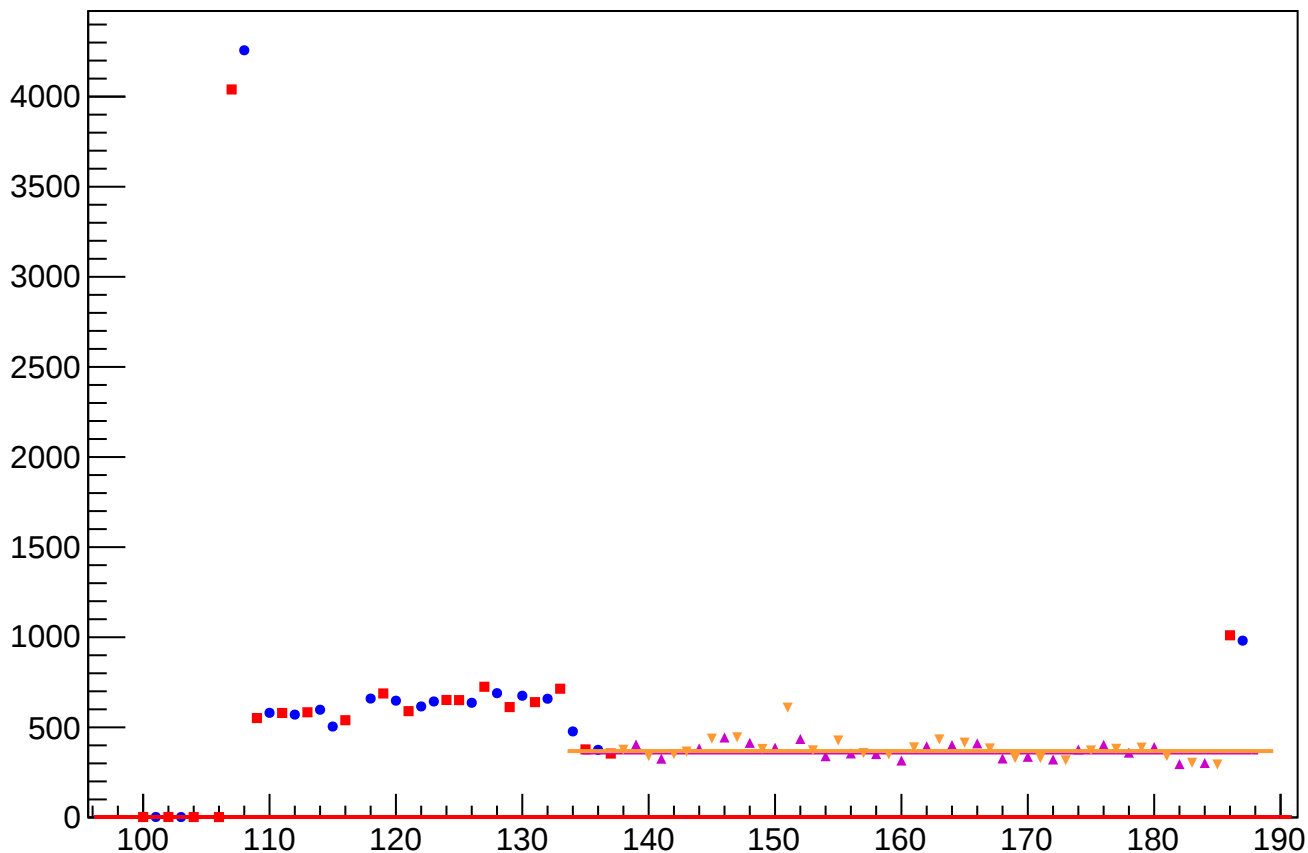
Left In: -39.078 ± 87.769 χ^2/NDF : 20.3/22

+ sign -1.711 ± 2.251 χ^2/NDF : 65.3/42

All: -1.199 ± 1.540 χ^2/NDF : 105.0/85

- sign -0.748 ± 2.111 χ^2/NDF : 39.6/42

asym_cav4bQ_rms vs Slug



Right In: 2.457+/-0.002 χ^2/NDF : 11108555.3/17

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.438+/-0.001 χ^2/NDF : 11851162.3/19

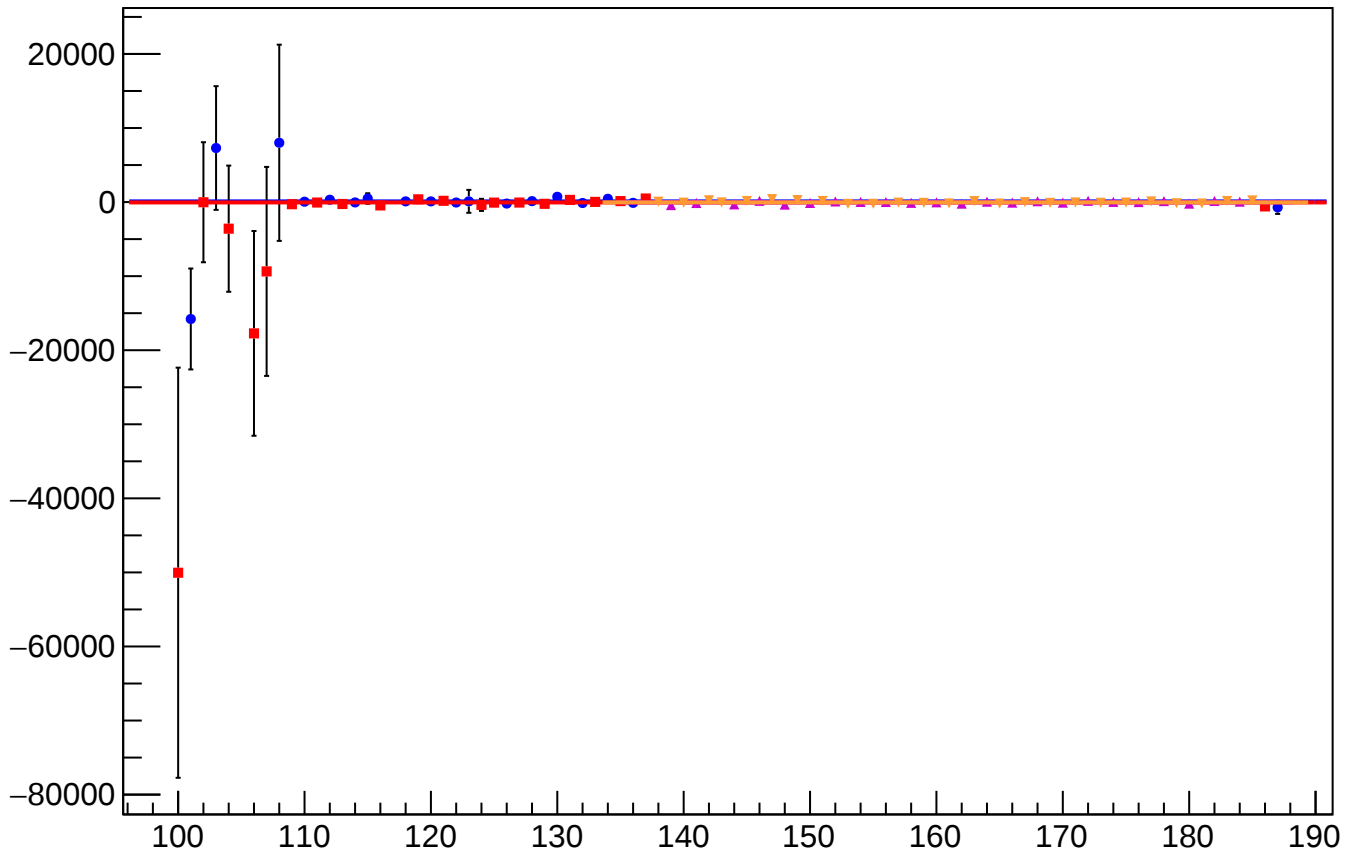
Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

+ sign 2.702+/-0.002 χ^2/NDF : 47118228.6/42

All: 2.672+/-0.001 χ^2/NDF : 92637319.1/85

- sign 2.645+/-0.001 χ^2/NDF : 45518406.2/42

asym_cav4cQ_mean vs Slug



Right In: 92.063+/-90.672 χ^2/NDF : 12.8/17

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: -48.353+/-83.710 χ^2/NDF : 14.8/19

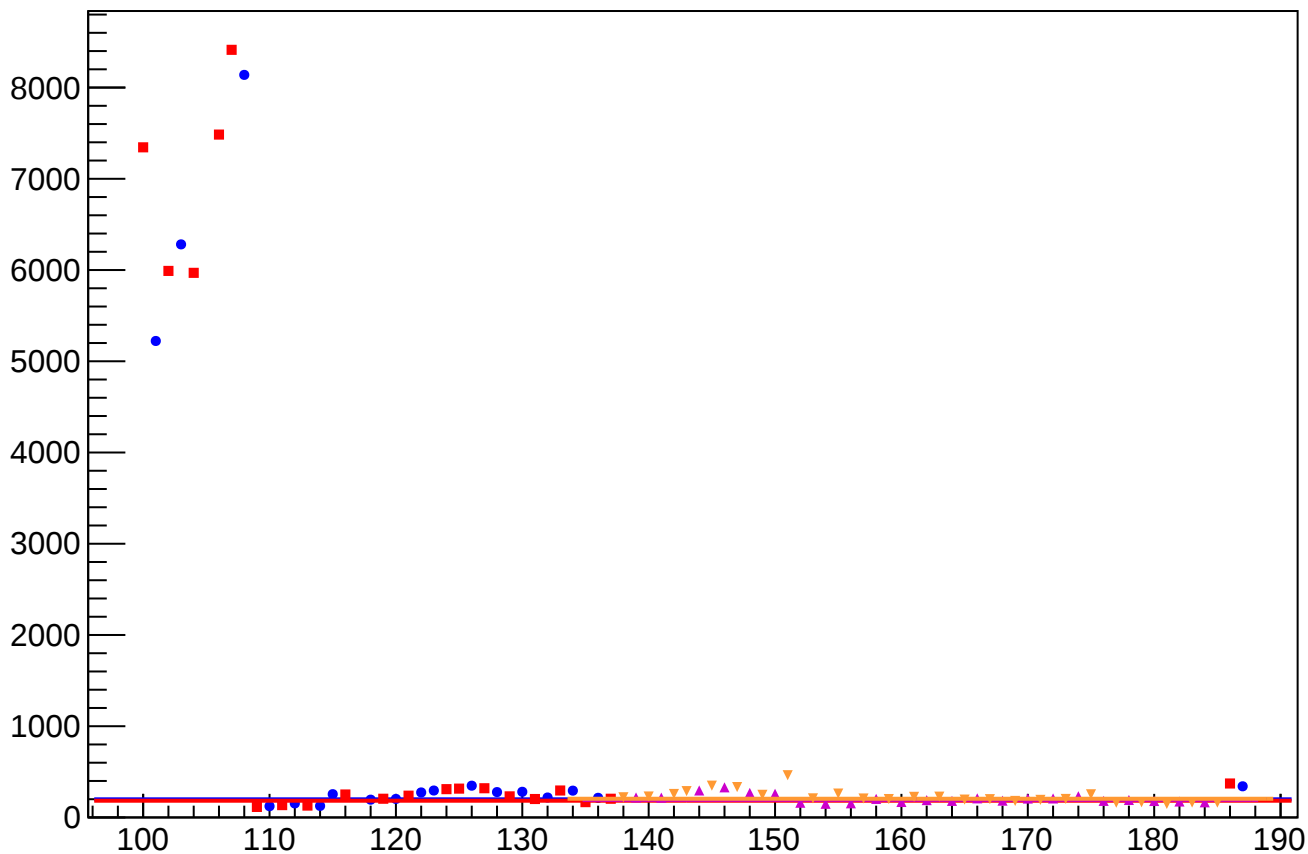
Left In: -28.205+/-48.167 χ^2/NDF : 9.2/22

+ sign -8.028+/-43.534 χ^2/NDF : 23.7/42

All: -21.149+/-30.132 χ^2/NDF : 48.0/85

- sign -33.216+/-41.749 χ^2/NDF : 24.1/42

asym_cav4cQ_rms vs Slug



Right In: 198.844 $\pm$ 0.064 χ^2 /NDF: 3749571.4/17

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF: 1956045.1/24

Right Out: 183.444 $\pm$ 0.059 χ^2 /NDF: 4514700.5/19

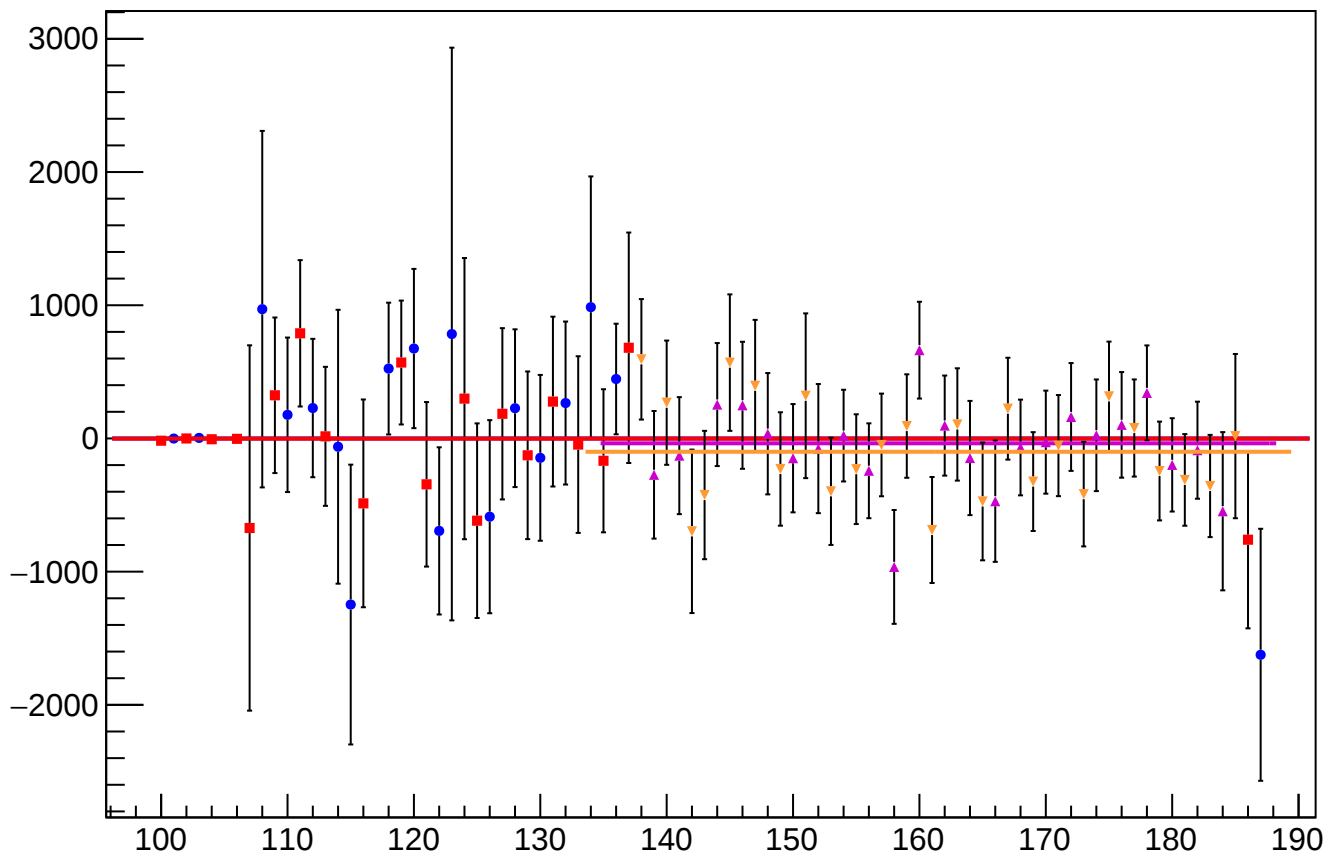
Left In: 193.405 $\pm$ 0.034 χ^2 /NDF: 1172169.3/22

+ sign 203.601 $\pm$ 0.031 χ^2 /NDF: 5712773.4/42

All: 196.999 $\pm$ 0.021 χ^2 /NDF: 11509222.8/85

- sign 190.927 $\pm$ 0.030 χ^2 /NDF: 5708142.4/42

asym_cav4dQ_mean vs Slug



Right In: -0.145 ± 1.737 χ^2/NDF : 13.0/17

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: -1.327 ± 1.623 χ^2/NDF : 10.7/19

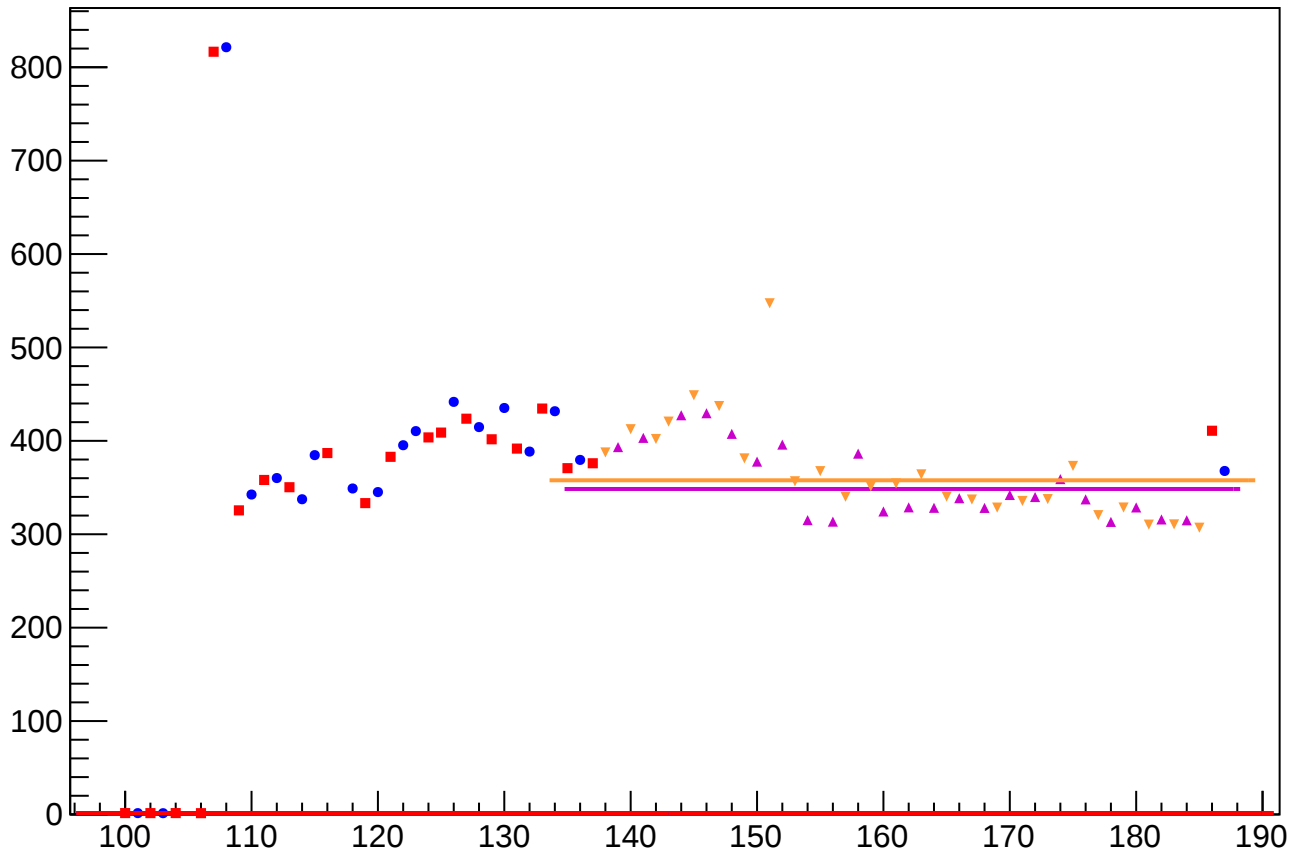
Left In: -36.497 ± 84.675 χ^2/NDF : 13.5/22

+ sign -0.188 ± 1.736 χ^2/NDF : 30.1/42

All: -0.803 ± 1.185 χ^2/NDF : 54.7/85

- sign -1.340 ± 1.622 χ^2/NDF : 24.4/42

asym_cav4dQ_rms vs Slug



Right In: 1.454 $\pm$ 0.001 χ^2 /NDF: 11214484.2/17

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.453 $\pm$ 0.001 χ^2 /NDF: 11595819.9/19

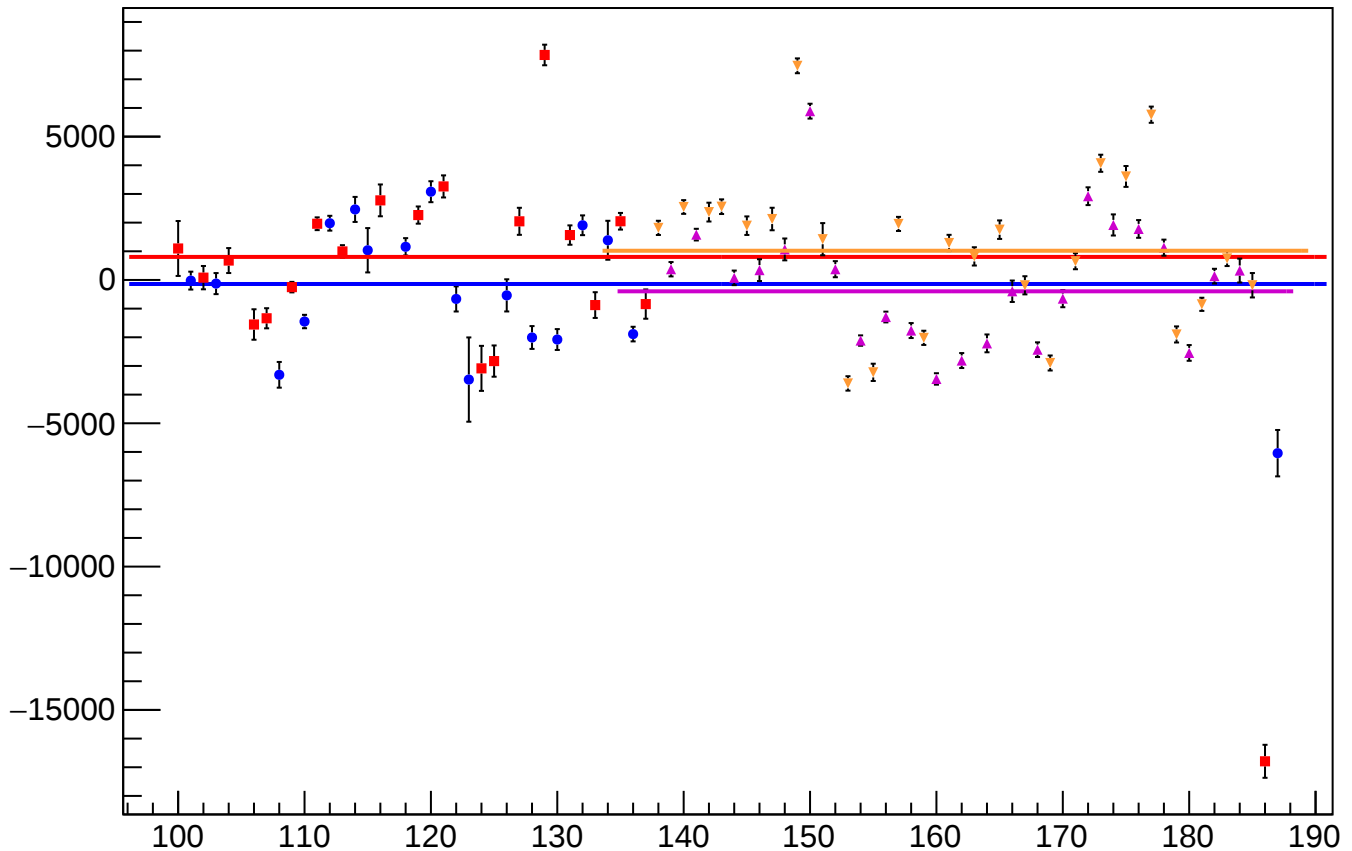
Left In: 348.464 $\pm$ 0.060 χ^2 /NDF: 360425.7/22

+ sign 1.605 $\pm$ 0.001 χ^2 /NDF: 47571293.8/42

All: 1.592 $\pm$ 0.001 χ^2 /NDF: 93104838.2/85

- sign 1.581 $\pm$ 0.001 χ^2 /NDF: 45533329.0/42

asym_bcm0l02_mean vs Slug



Right In: -140.970 ± 87.252 χ^2/NDF : 480.2/17

Left Out: 1018.965 ± 57.402 χ^2/NDF : 2310.1/24

Right Out: 803.658 ± 77.718 χ^2/NDF : 1640.7/19

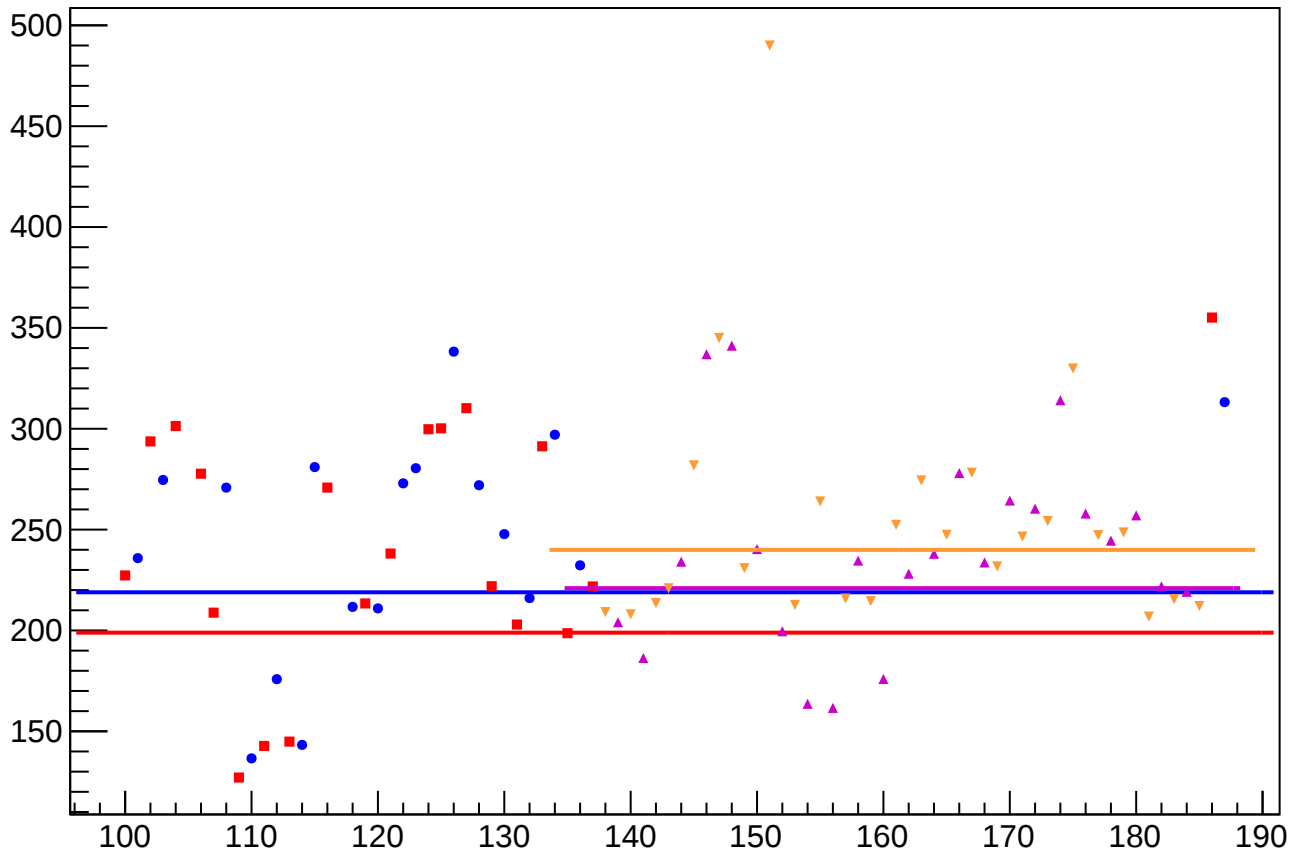
Left In: -396.609 ± 55.090 χ^2/NDF : 1581.0/22

+ sign 668.582 ± 47.955 χ^2/NDF : 2913.6/42

All: 315.196 ± 32.793 χ^2/NDF : 6396.1/85

- sign 4.792 ± 44.944 χ^2/NDF : 3380.5/42

asym_bcm0l02_rms vs Slug



Right In: 218.923 $\pm$ 0.062 χ^2 /NDF: 688514.0/17

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 198.914 $\pm$ 0.055 χ^2 /NDF: 1339161.4/19

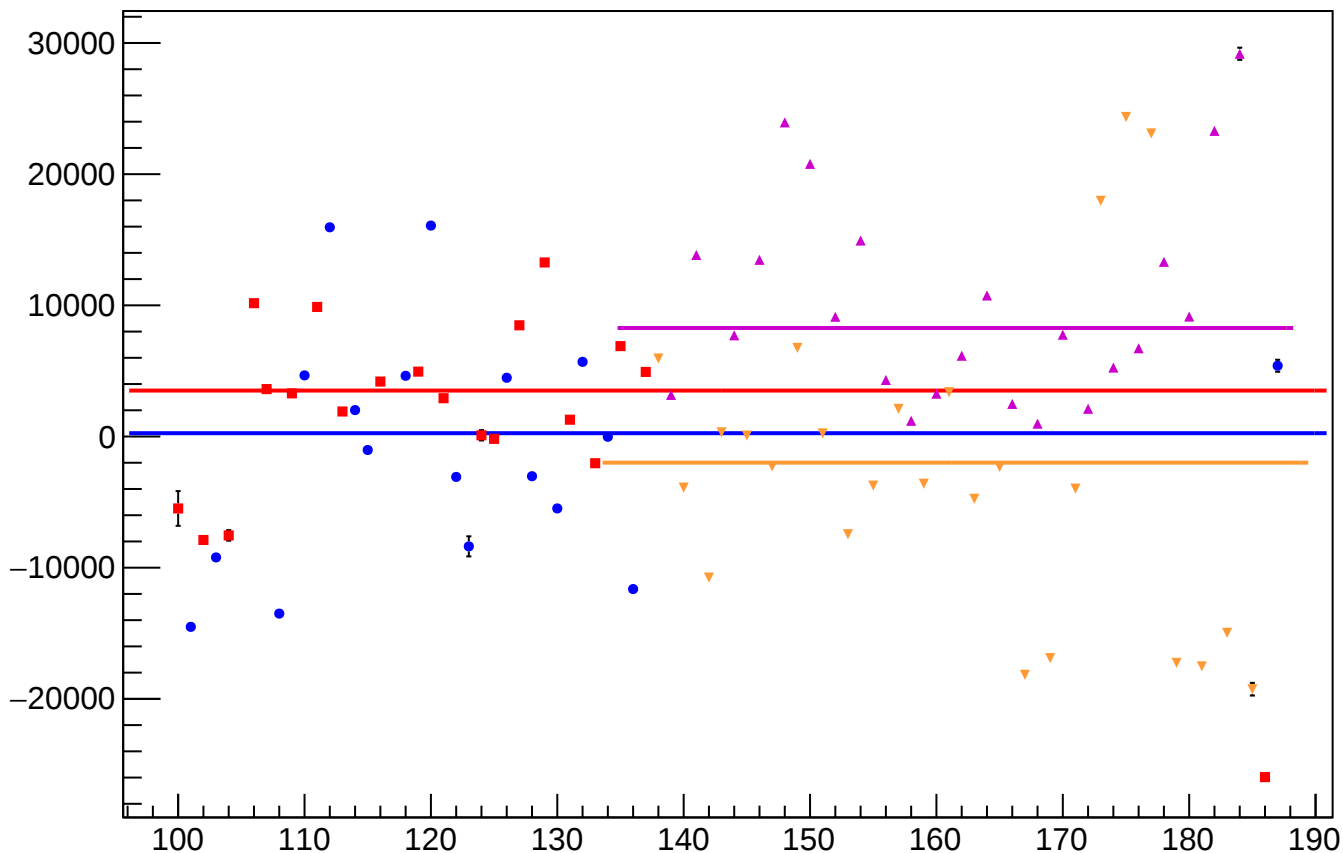
Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

+ sign 233.593 $\pm$ 0.034 χ^2 /NDF: 1770287.3/42

All: 222.946 $\pm$ 0.023 χ^2 /NDF: 4729508.9/85

- sign 213.595 $\pm$ 0.032 χ^2 /NDF: 2774065.3/42

asym_bpm0i02WS_mean vs Slug



Right In: 252.866 $\pm$ 54.505 χ^2 /NDF: 30790.4/17

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF: 63766.6/24

Right Out: 3503.372 $\pm$ 51.555 χ^2 /NDF: 18780.9/19

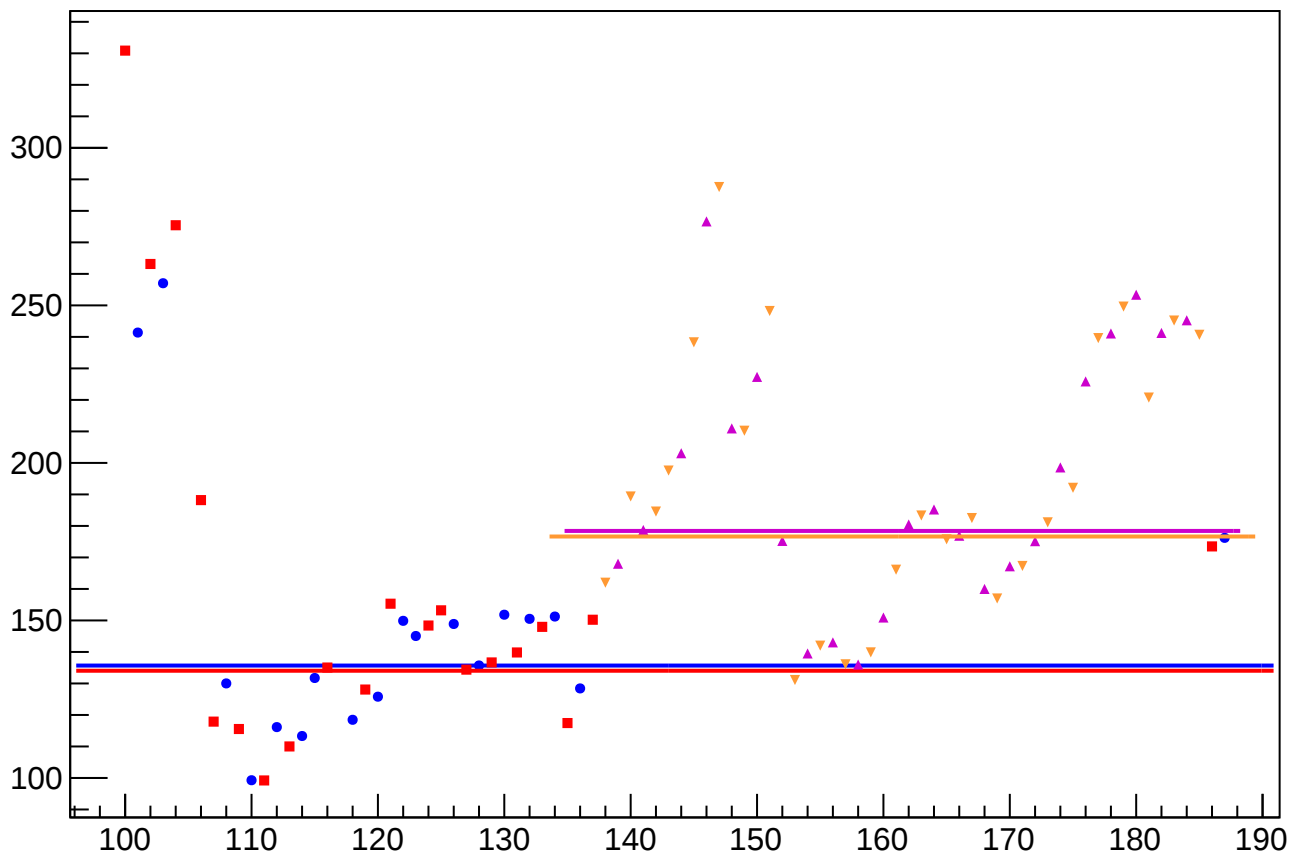
Left In: 8273.228 $\pm$ 44.301 χ^2 /NDF: 22870.2/22

+ sign -1144.885 $\pm$ 33.480 χ^2 /NDF: 95613.1/42

All: 2537.868 $\pm$ 23.716 χ^2 /NDF: 166475.5/85

- sign 6247.209 $\pm$ 33.600 χ^2 /NDF: 46575.0/42

asym_bpm0i02WS_rms vs Slug



Right In: 135.683+/-0.039 χ^2/NDF : 673595.0/17

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 134.038+/-0.036 χ^2/NDF : 868914.0/19

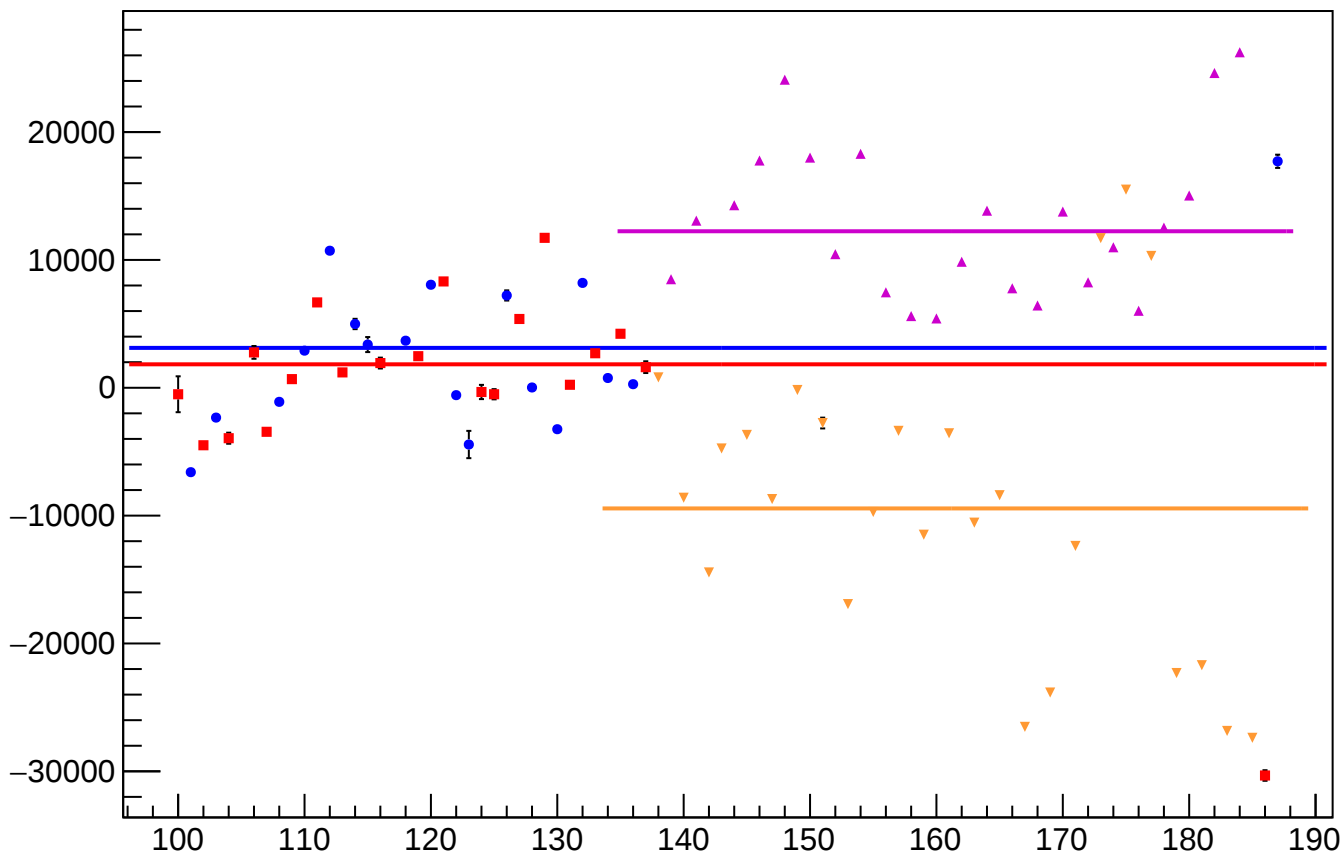
Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

+ sign 161.187+/-0.024 χ^2/NDF : 2927902.9/42

All: 160.379+/-0.017 χ^2/NDF : 5945257.8/85

- sign 159.565+/-0.024 χ^2/NDF : 3015014.0/42

asym_bpm0i02aWS_mean vs Slug



Right In: 3120.005+/-70.238 χ^2/NDF : 4970.3/17

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 1834.858+/-64.900 χ^2/NDF : 9352.3/19

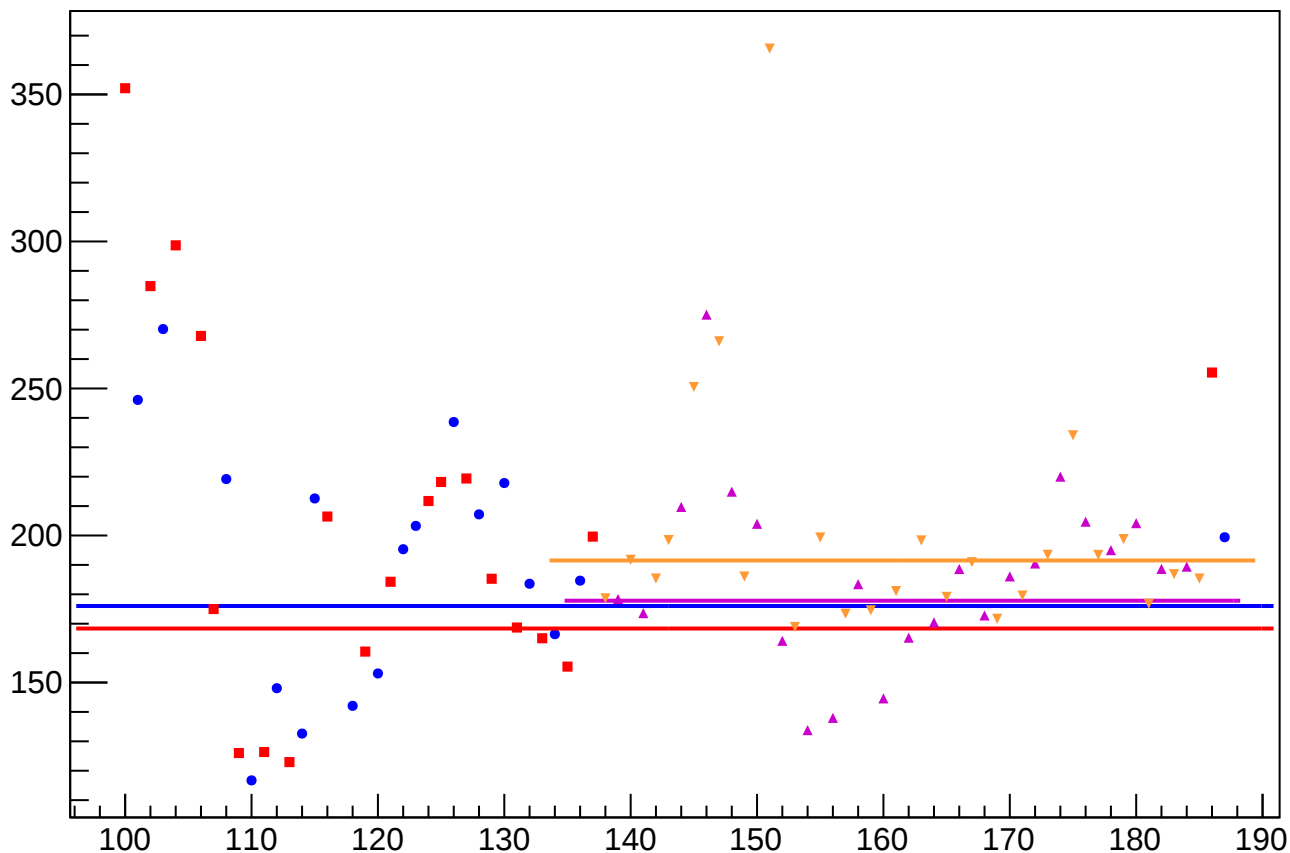
Left In: 12242.226+/-43.944 χ^2/NDF : 16615.8/22

+ sign -5721.536+/-38.208 χ^2/NDF : 89695.9/42

All: 1982.842+/-26.350 χ^2/NDF : 210834.2/85

- sign 8970.639+/-36.388 χ^2/NDF : 43599.7/42

asym_bpm0i02aWS_rms vs Slug



Right In: 176.021+/-0.050 χ^2/NDF : 692014.8/17

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 168.369+/-0.046 χ^2/NDF : 1016035.2/19

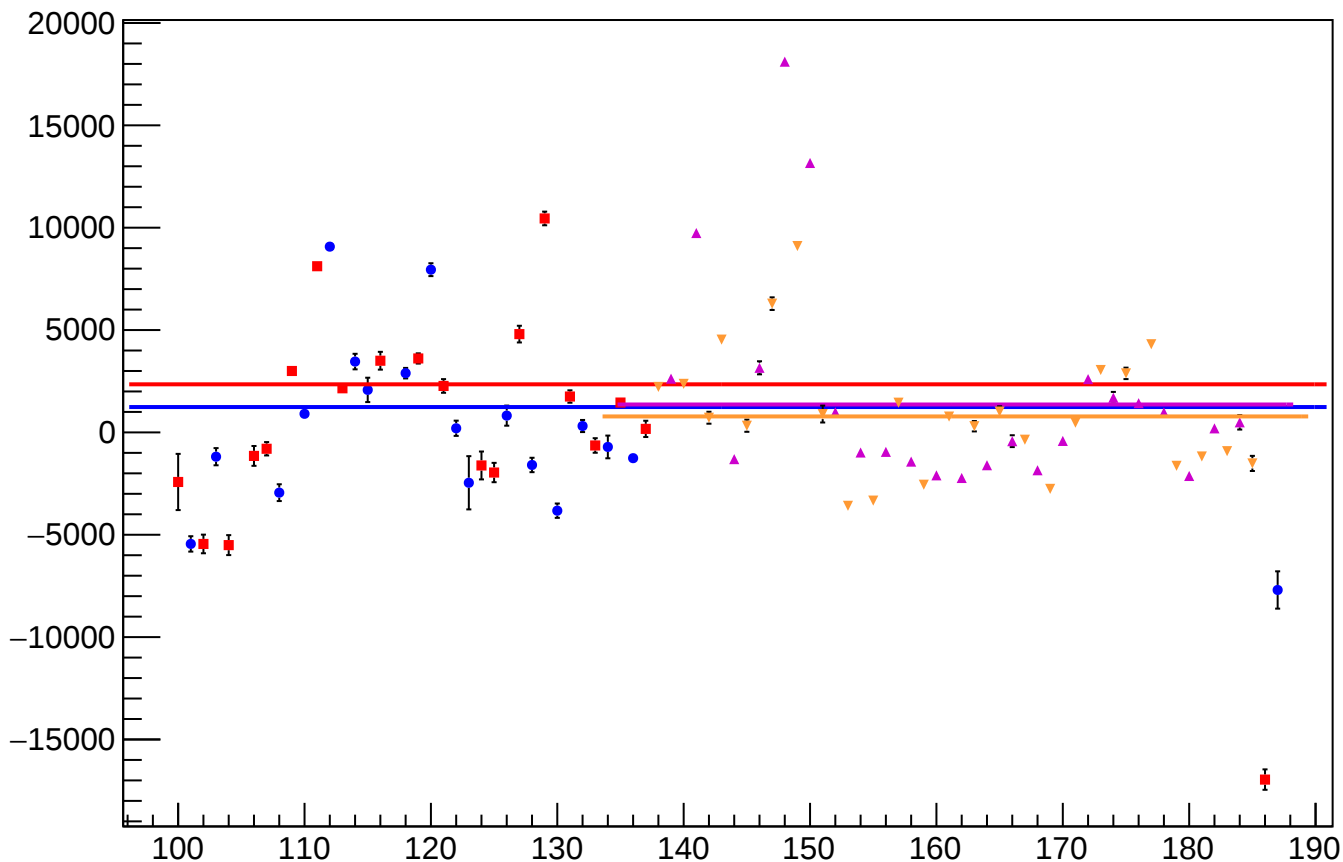
Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

+ sign 186.924+/-0.027 χ^2/NDF : 1487718.9/42

All: 180.593+/-0.019 χ^2/NDF : 3500075.0/85

- sign 174.850+/-0.026 χ^2/NDF : 1907619.4/42

asym_bpm0i05WS_mean vs Slug



Right In: 1238.656+/-77.046 χ^2/NDF : 2746.7/17

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: 2348.875+/-69.332 χ^2/NDF : 4025.5/19

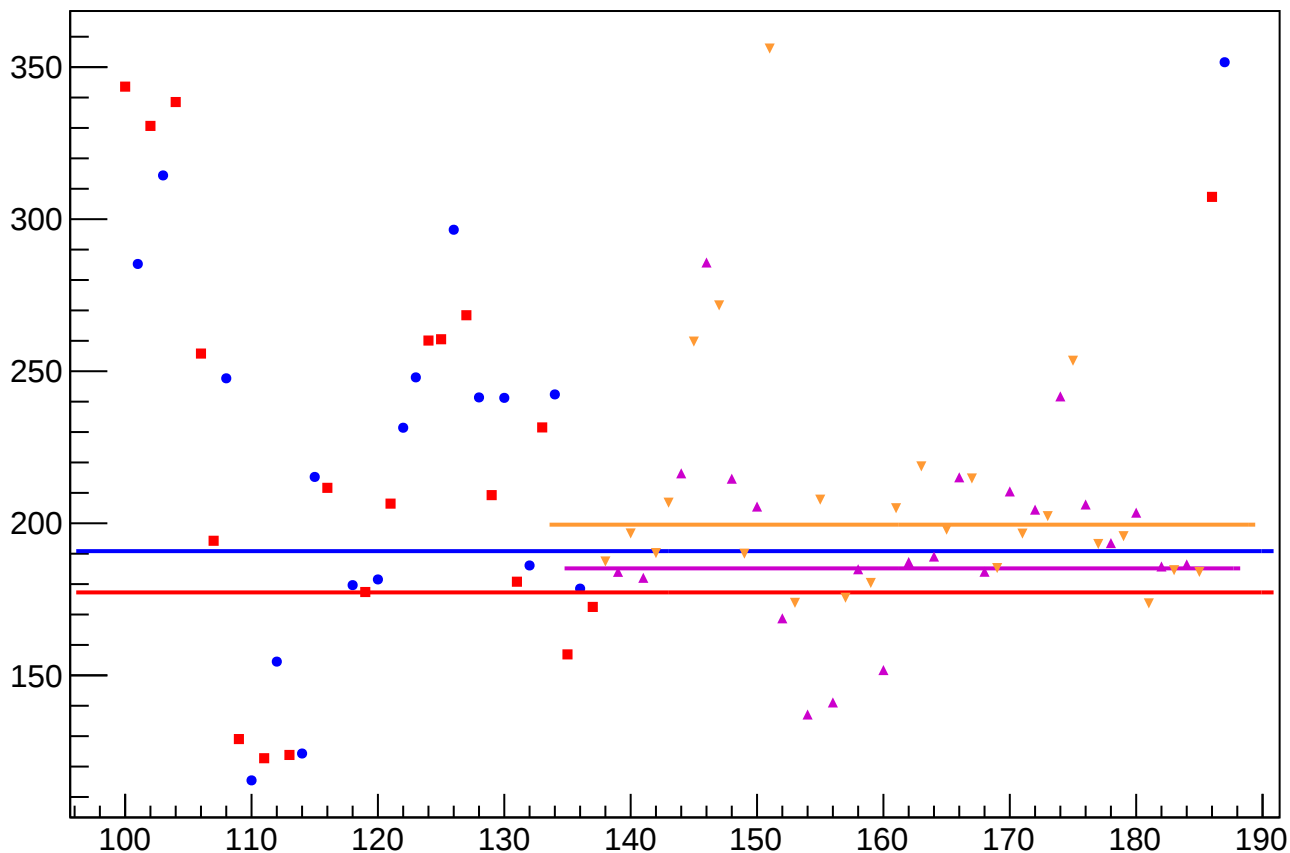
Left In: 1363.043+/-45.807 χ^2/NDF : 11632.9/22

+ sign 906.140+/-40.407 χ^2/NDF : 7033.1/42

All: 1305.413+/-27.766 χ^2/NDF : 23017.2/85

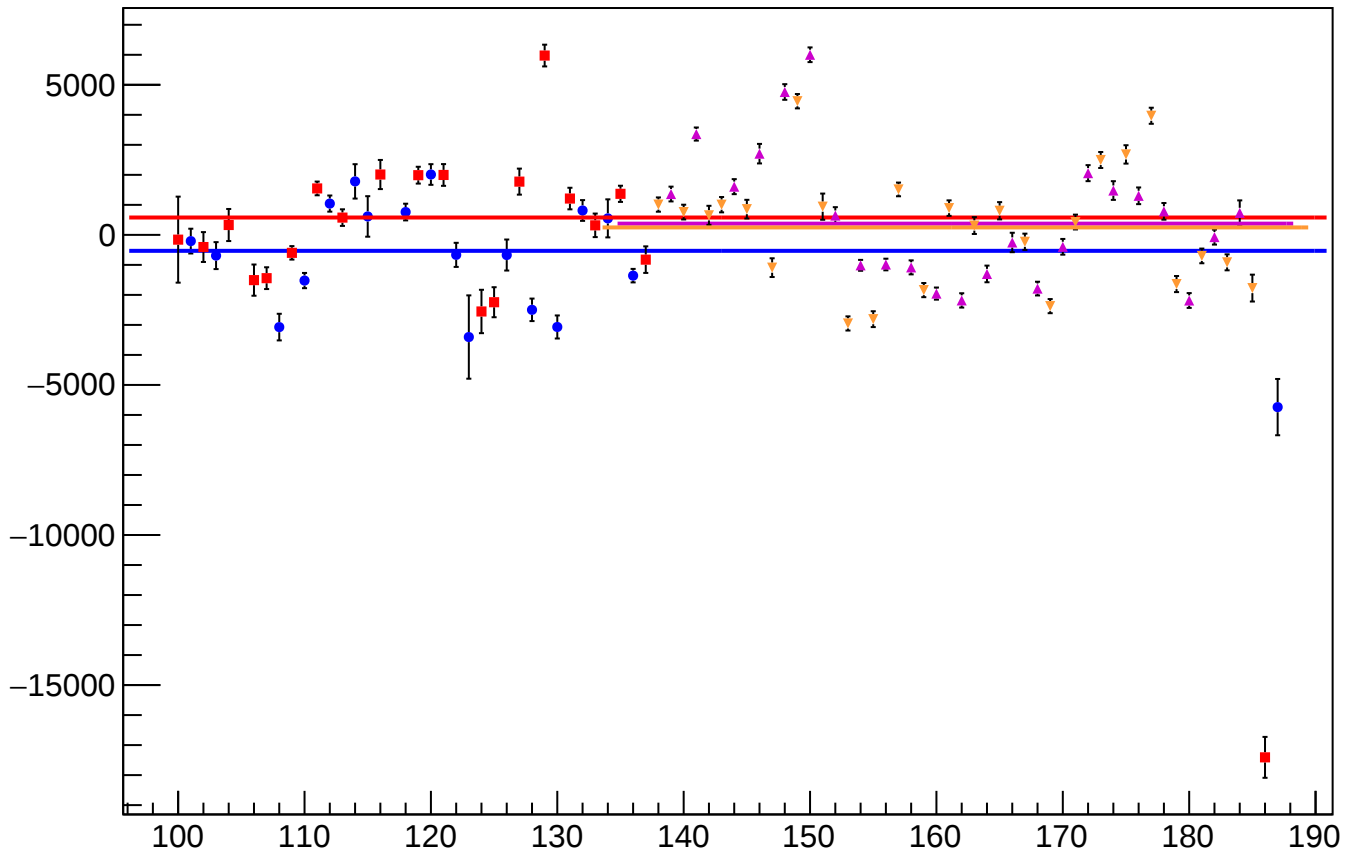
- sign 1662.605+/-38.219 χ^2/NDF : 15799.1/42

asym_bpm0i05WS_rms vs Slug



Right In: 190.844+/-0.054	χ^2/NDF : 1039853.4/17	+ sign 197.153+/-0.029	χ^2/NDF : 1787710.4/42
Left Out: 199.547+/-0.034	χ^2/NDF : 729356.3/24	All: 189.561+/-0.020	χ^2/NDF : 4252106.9/85
Right Out: 177.270+/-0.049	χ^2/NDF : 1429809.6/19	- sign 182.770+/-0.027	χ^2/NDF : 2330642.1/42
Left In: 185.171+/-0.032	χ^2/NDF : 882752.2/22		

asym_bpm0i07WS_mean vs Slug



Right In: -531.718+/-88.393 χ^2/NDF : 316.4/17

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 578.583+/-81.640 χ^2/NDF : 1145.3/19

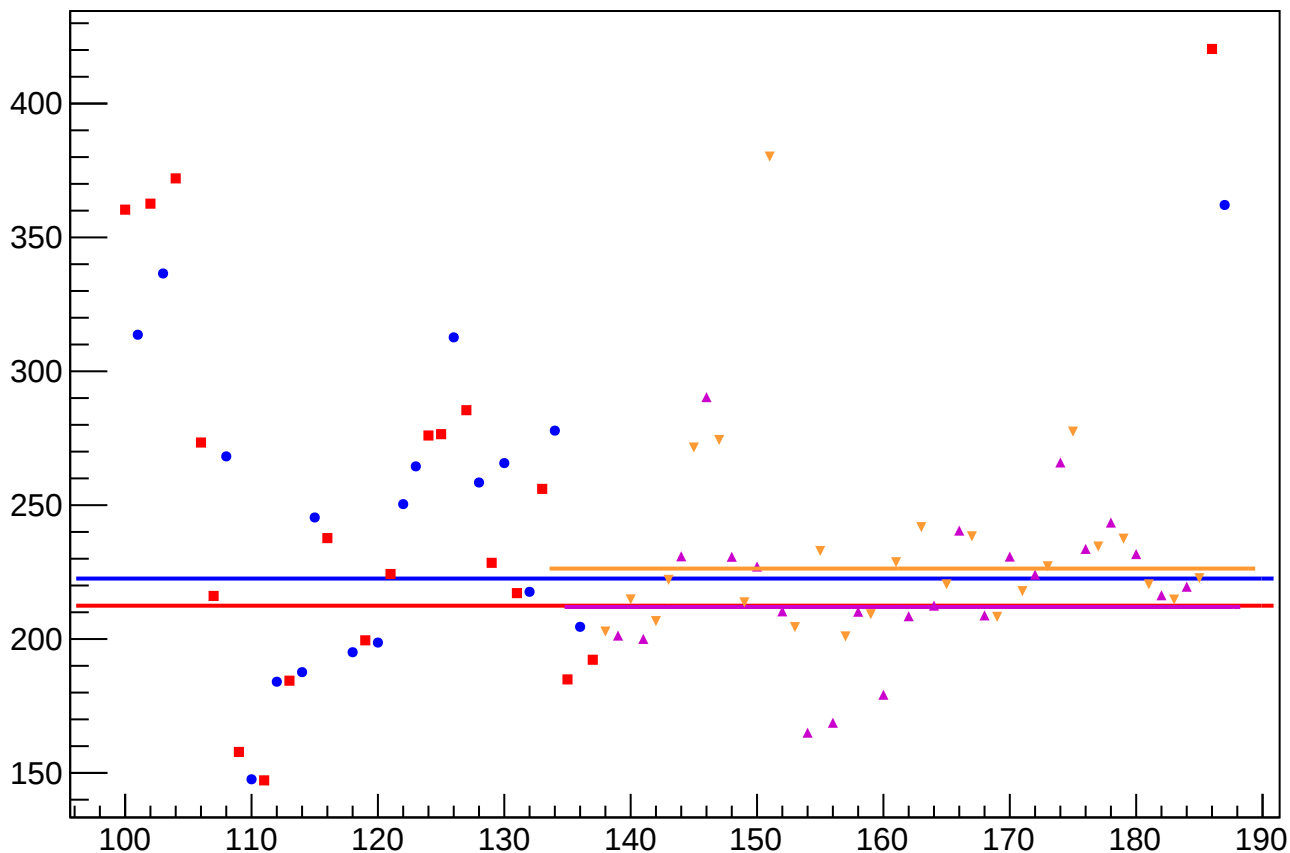
Left In: 374.122+/-52.049 χ^2/NDF :1801.0/22

+ sign 38.520+/-45.804 χ^2/NDF : 1728.4/42

All: 244.291+/-31.689 χ^2/NDF : 4717.9/85

- sign 433.210+/-43.888 χ^2/NDF : 2950.8/42

asym_bpm0i07WS_rms vs Slug



Right In: 222.590 ± 0.063 χ^2/NDF : 690184.4/17

Left Out: 226.322 ± 0.038 χ^2/NDF : 521041.8/24

Right Out: 212.457 ± 0.058 χ^2/NDF : 1068273.5/19

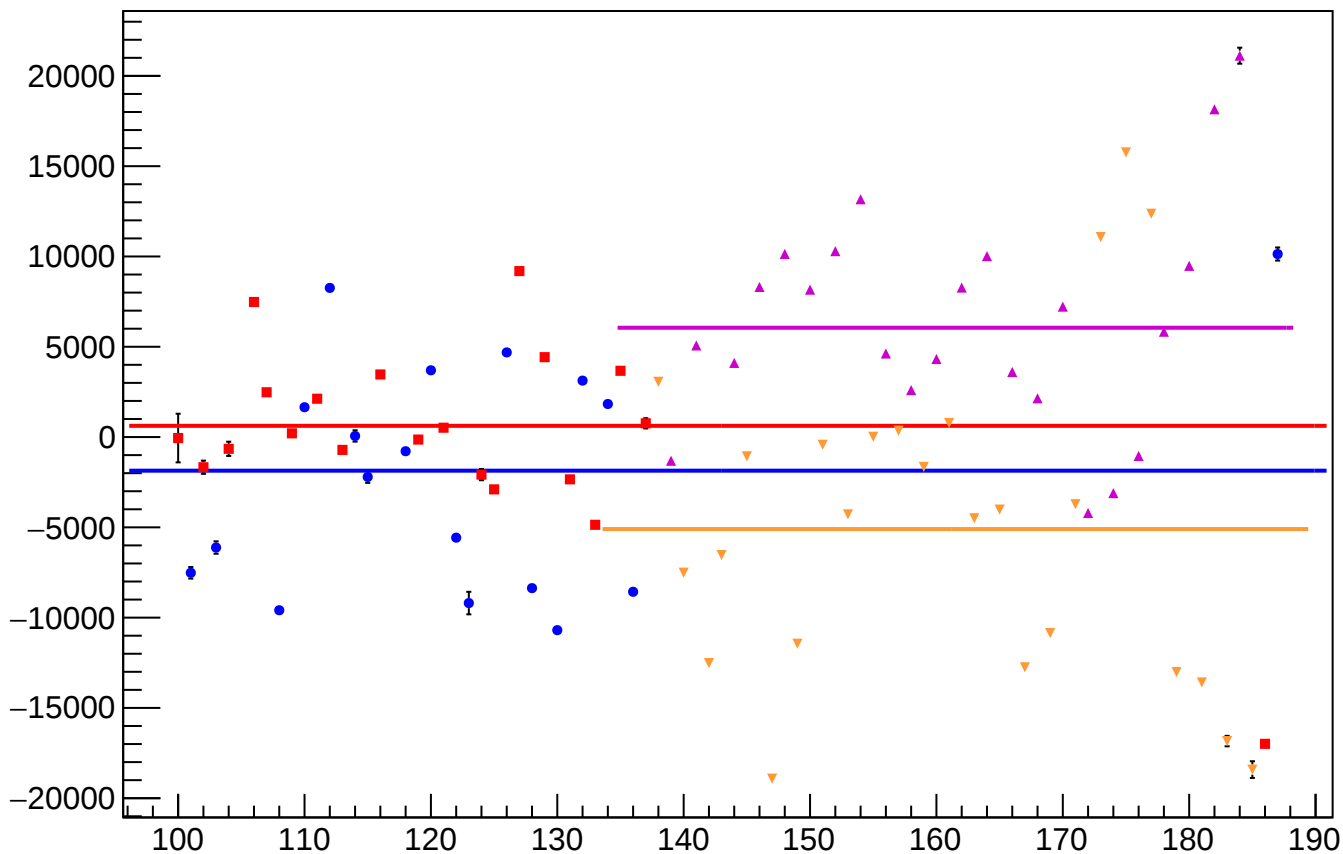
Left In: 211.970 ± 0.037 χ^2/NDF : 584344.5/22

+ sign 225.320 ± 0.032 χ^2/NDF : 1213834.0/42

All: 218.433 ± 0.022 χ^2/NDF : 2953216.1/85

- sign 212.111 ± 0.031 χ^2/NDF : 1652668.5/42

asym_bpm1i02WS_mean vs Slug



Right In: -1861.595 ± 47.009 χ^2/NDF : 17642.7/17

Left Out: -5095.305 ± 33.703 χ^2/NDF : 54395.4/24

Right Out: 622.036 ± 44.140 χ^2/NDF : 12024.8/19

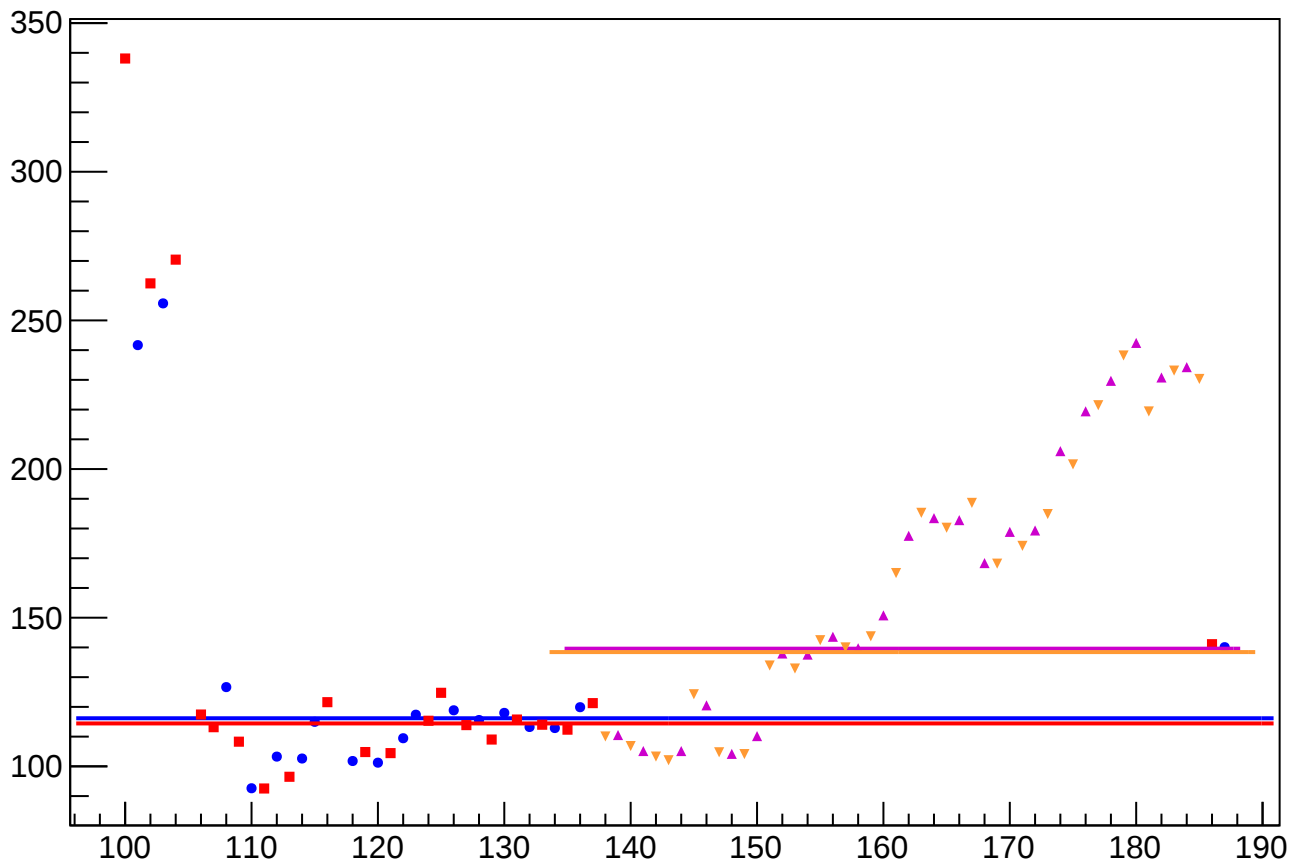
Left In: 6053.569 ± 34.998 χ^2/NDF : 17590.3/22

+ sign -3997.427 ± 27.391 χ^2/NDF : 75163.5/42

All: -24.983 ± 19.380 χ^2/NDF : 156192.1/85

- sign 3957.004 ± 27.424 χ^2/NDF : 38912.1/42

asym_bpm1i02WS_rms vs Slug



Right In: 116.174 $\pm$ 0.033 χ^2/NDF : 752454.3/17

Left Out: 138.436 $\pm$ 0.024 χ^2/NDF : 2549435.8/24

Right Out: 114.434 $\pm$ 0.031 χ^2/NDF : 823324.5/19

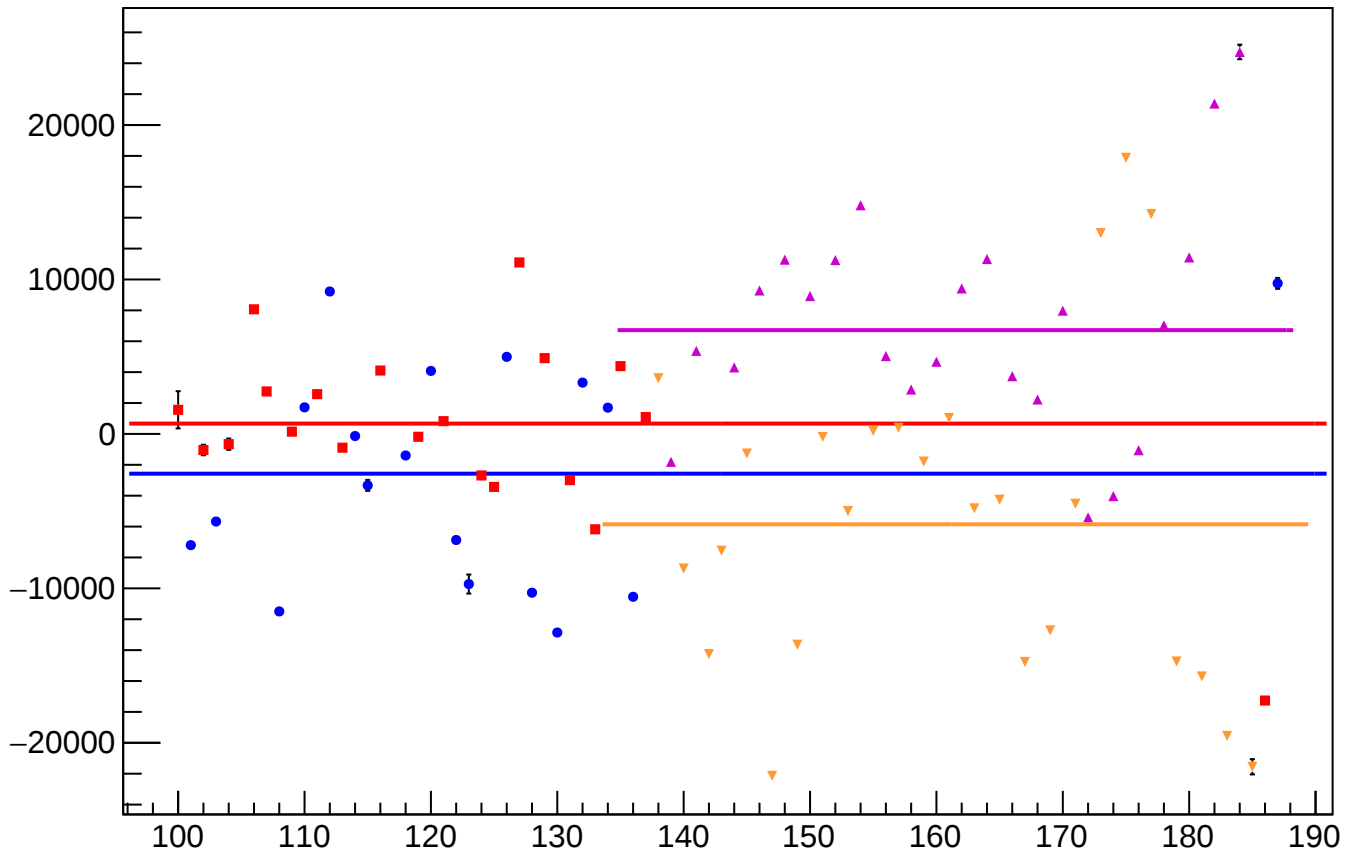
Left In: 139.578 $\pm$ 0.025 χ^2/NDF : 2413658.9/22

+ sign 130.878 $\pm$ 0.019 χ^2/NDF : 3598127.7/42

All: 130.376 $\pm$ 0.014 χ^2/NDF : 7234911.1/85

- sign 129.872 $\pm$ 0.019 χ^2/NDF : 3635438.0/42

asym_bpm2i01WS_mean vs Slug



Right In: -2574.585 ± 47.912 χ^2/NDF : 22498.8/17

Left Out: -5852.544 ± 35.880 χ^2/NDF : 63411.4/24

Right Out: 669.627 ± 45.390 χ^2/NDF : 14851.1/19

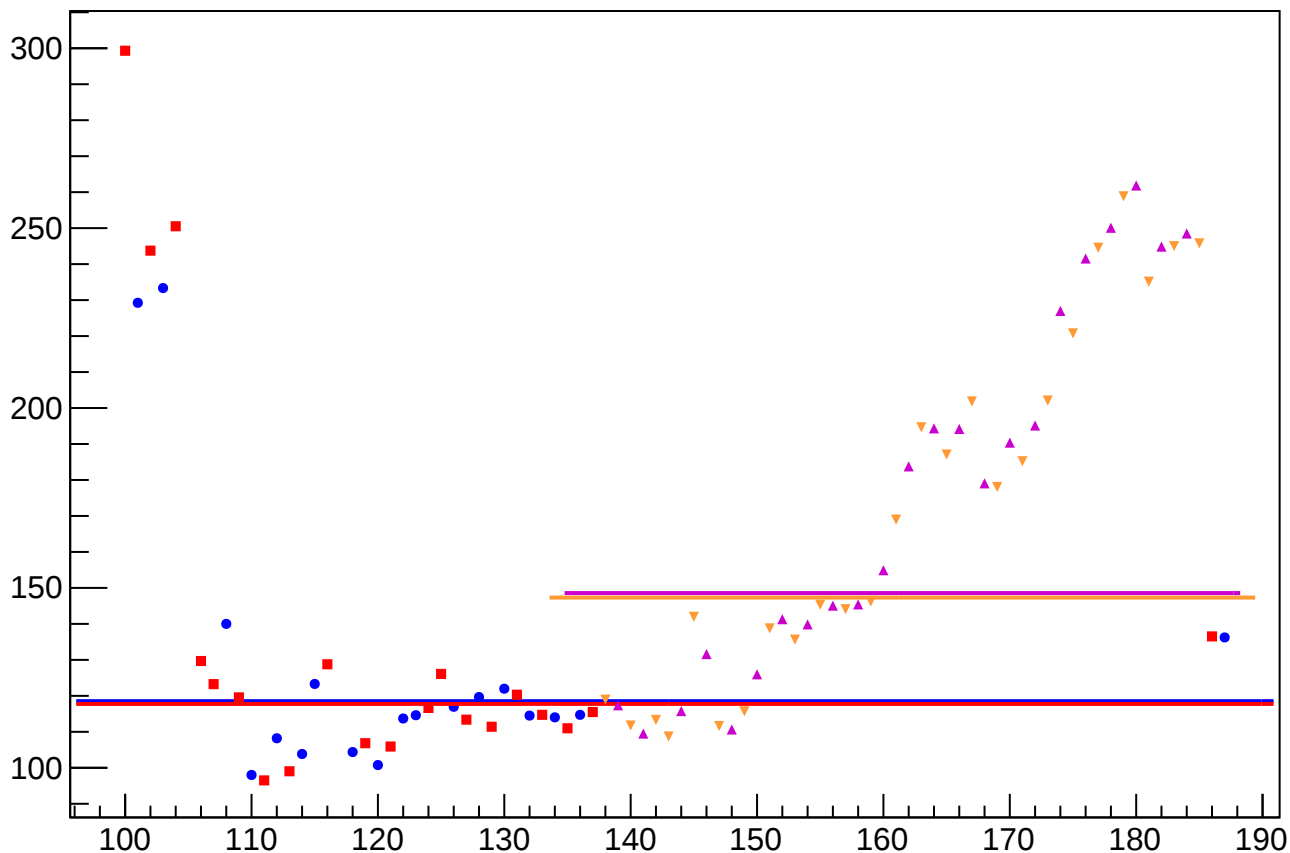
Left In: 6718.475 ± 37.276 χ^2/NDF : 20934.3/22

+ sign -4674.750 ± 28.719 χ^2/NDF : 88909.2/42

All: -209.895 ± 20.338 χ^2/NDF : 183786.7/85

- sign 4282.114 ± 28.807 χ^2/NDF : 46391.8/42

asym_bpm2i01WS_rms vs Slug



Right In: 118.519 $\pm$ 0.034 χ^2 /NDF: 641468.3/17

Left Out: 147.317 $\pm$ 0.025 χ^2 /NDF: 2511679.9/24

Right Out: 117.764 $\pm$ 0.032 χ^2 /NDF: 704319.5/19

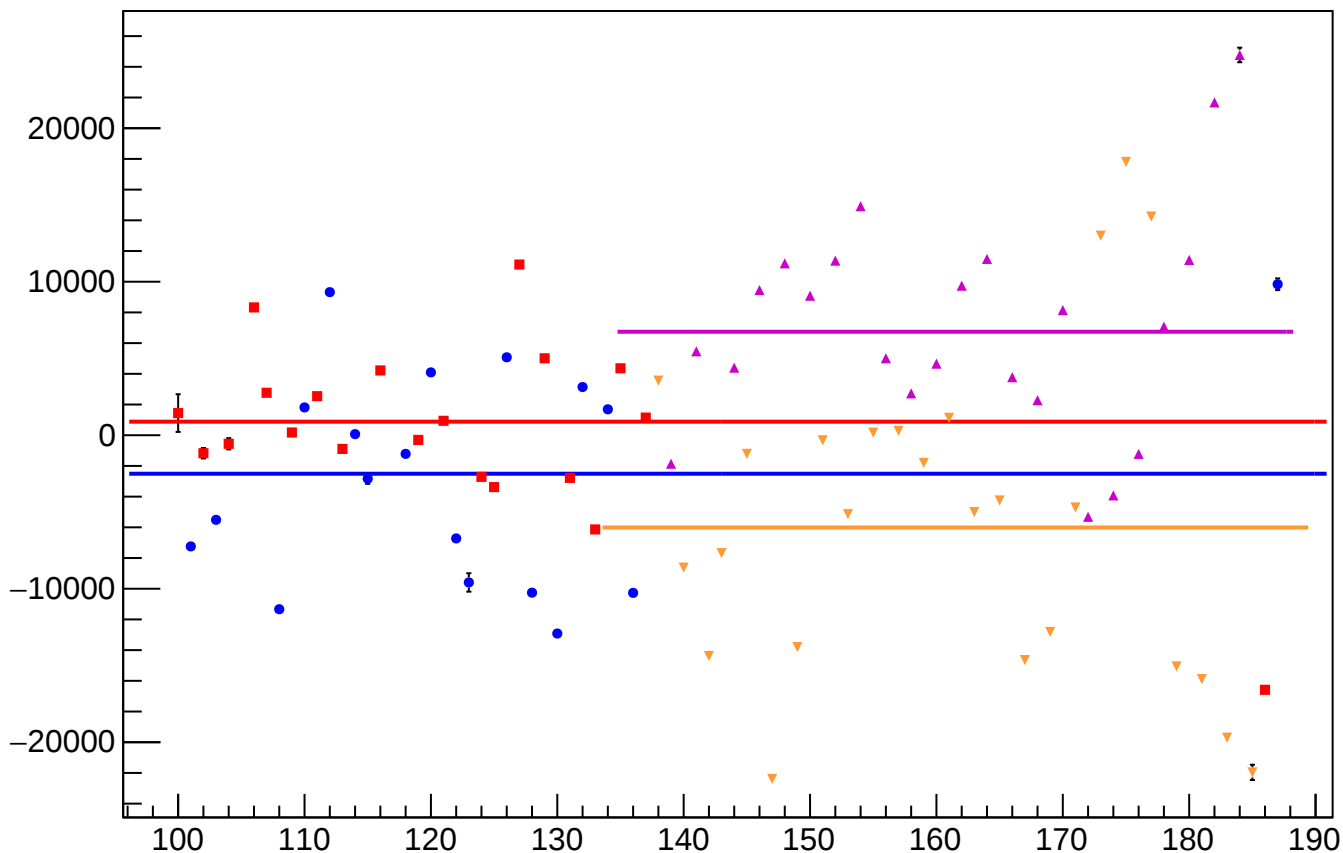
Left In: 148.569 $\pm$ 0.026 χ^2 /NDF: 2393185.0/22

+ sign 136.970 $\pm$ 0.020 χ^2 /NDF: 3616092.8/42

All: 136.567 $\pm$ 0.014 χ^2 /NDF: 7264519.0/85

- sign 136.161 $\pm$ 0.020 χ^2 /NDF: 3647636.1/42

asym_bpm2i02WS_mean vs Slug



Right In: -2508.877 ± 46.080 χ^2/NDF : 23909.7/17

Left Out: -6009.913 ± 35.082 χ^2/NDF : 67852.2/24

Right Out: 883.279 ± 43.675 χ^2/NDF : 14233.2/19

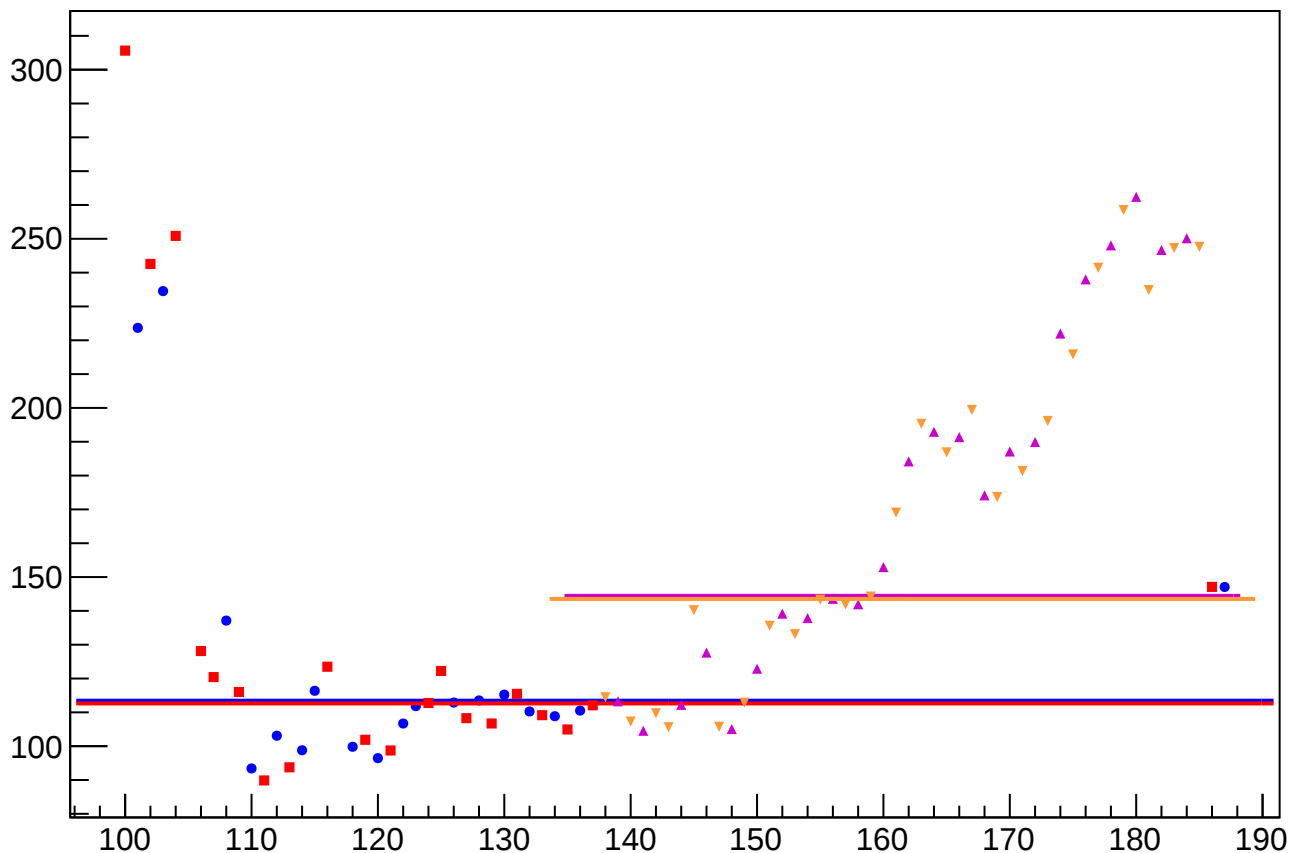
Left In: 6740.666 ± 36.379 χ^2/NDF : 22071.8/22

+ sign -4725.231 ± 27.913 χ^2/NDF : 95416.3/42

All: -198.314 ± 19.752 χ^2/NDF : 195017.9/85

- sign 4341.370 ± 27.953 χ^2/NDF : 46923.8/42

asym_bpm2i02WS_rms vs Slug



Right In: 113.441 ± 0.033 χ^2/NDF : 696198.9/17

Left Out: 143.531 ± 0.025 χ^2/NDF : 2704790.3/24

Right Out: 112.631 ± 0.031 χ^2/NDF : 807022.4/19

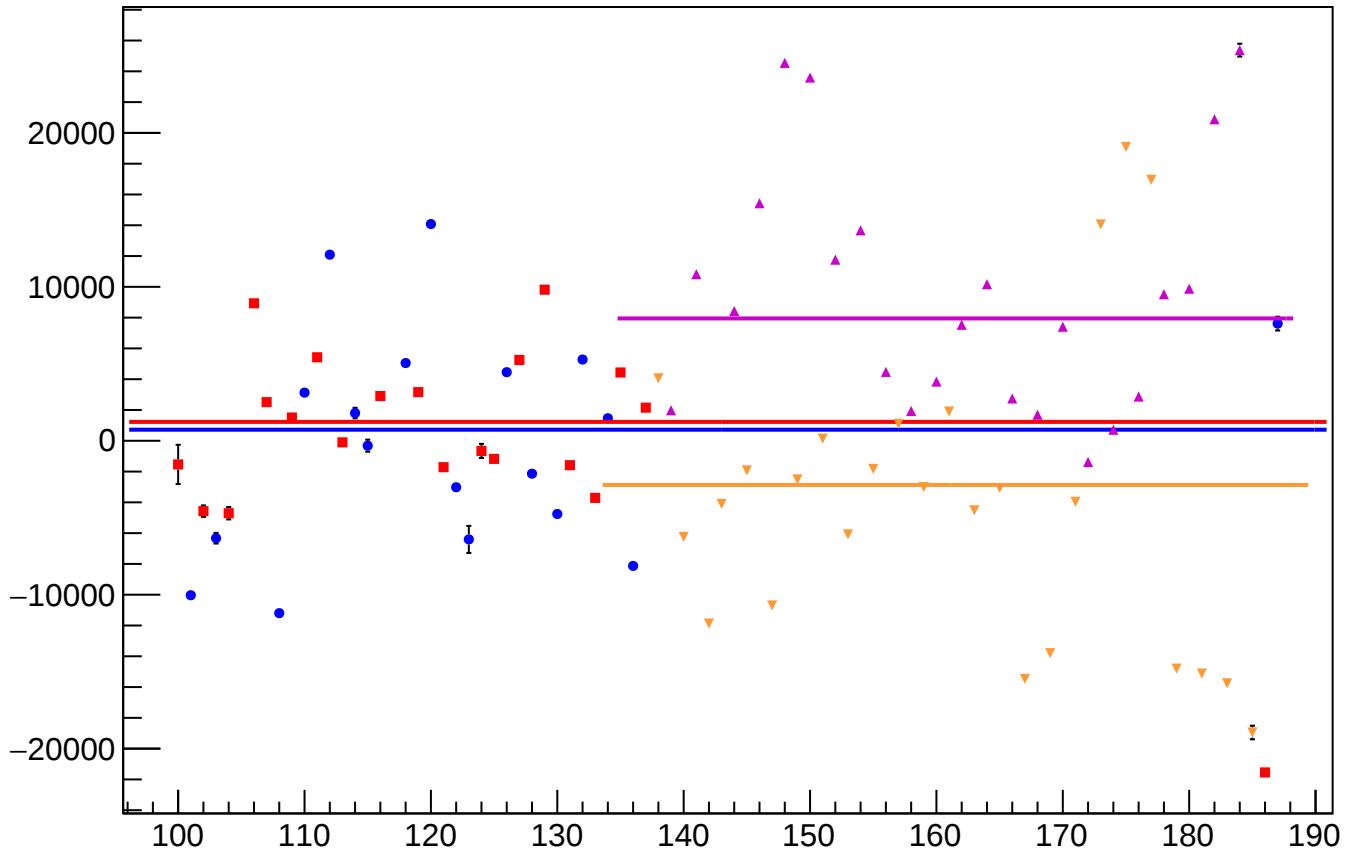
Left In: 144.440 ± 0.026 χ^2/NDF : 2586926.1/22

+ sign 132.490 ± 0.020 χ^2/NDF : 3940838.8/42

All: 131.951 ± 0.014 χ^2/NDF : 7962586.9/85

- sign 131.410 ± 0.020 χ^2/NDF : 4020254.9/42

asym_bpm0i01WS_mean vs Slug



Right In: 719.190 $\pm$ 55.718 χ^2 /NDF: 18488.6/17

Left Out: -2870.473 $\pm$ 39.482 χ^2 /NDF: 46420.3/24

Right Out: 1226.550 $\pm$ 52.947 χ^2 /NDF: 11400.2/19

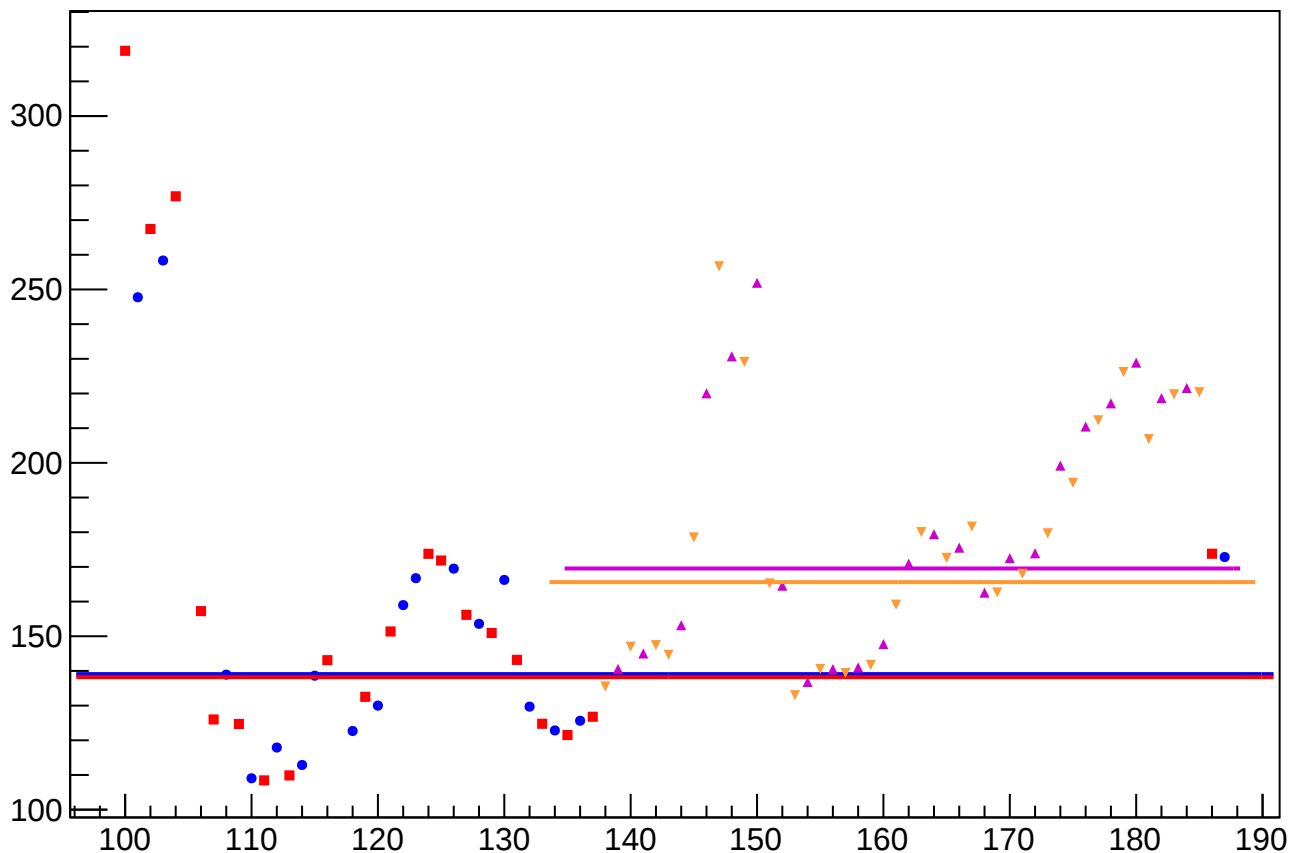
Left In: 7947.160 $\pm$ 41.726 χ^2 /NDF: 23874.5/22

+ sign -1670.536 $\pm$ 32.214 χ^2 /NDF: 67672.0/42

All: 1790.464 $\pm$ 22.974 χ^2 /NDF: 136374.3/85

- sign 5372.374 $\pm$ 32.772 χ^2 /NDF: 45213.7/42

asym_bpm0i01WS_rms vs Slug



Right In: 139.079+/-0.039 χ^2/NDF : 679194.8/17

Left Out: 165.616+/-0.028 χ^2/NDF : 1144779.3/24

Right Out: 138.194+/-0.037 χ^2/NDF : 784436.1/19

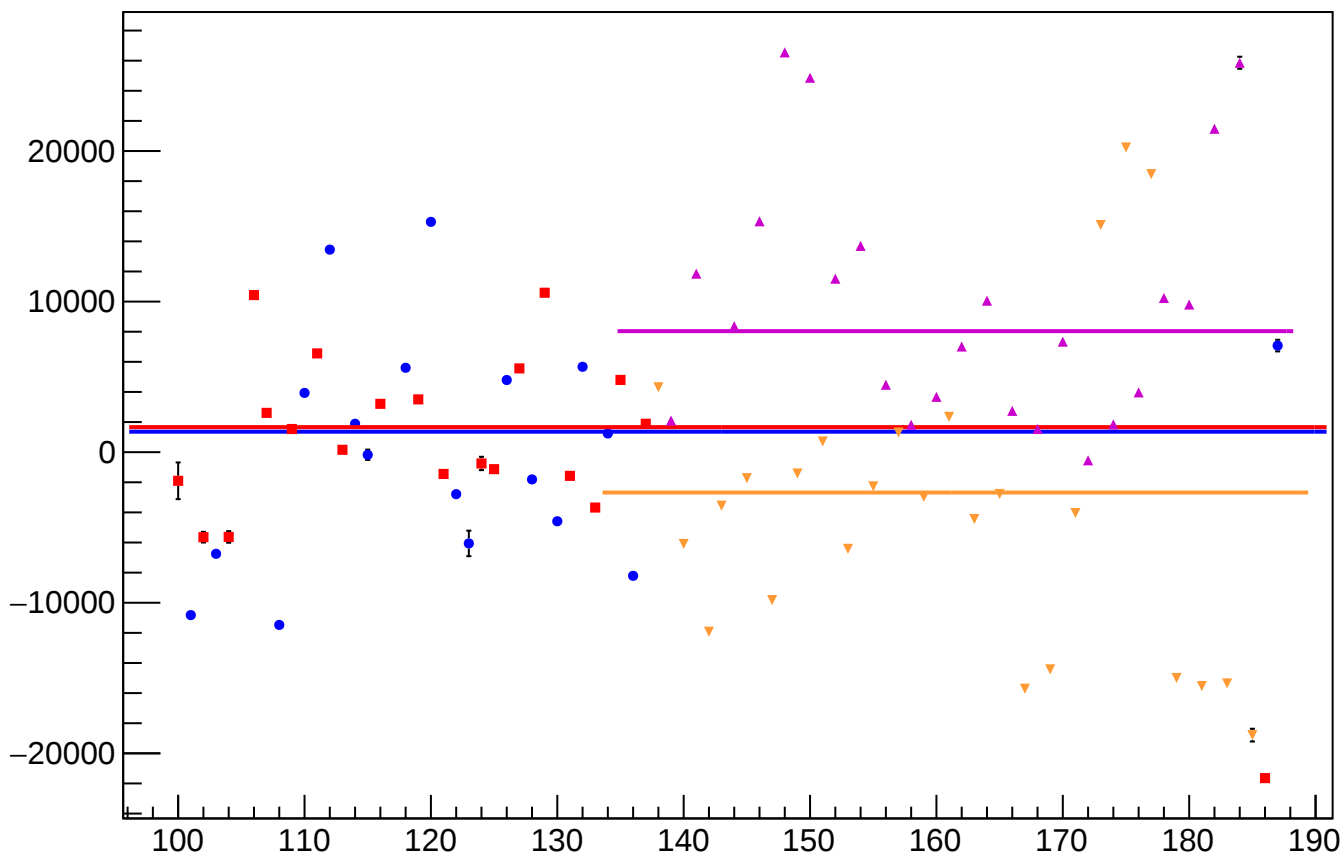
Left In: 169.542+/-0.030 χ^2/NDF : 1159241.9/22

+ sign 156.746+/-0.023 χ^2/NDF : 2125992.5/42

All: 157.132+/-0.016 χ^2/NDF : 4502731.2/85

- sign 157.532+/-0.023 χ^2/NDF : 2376153.4/42

asym_bpm0i01aWS_mean vs Slug



Right In: 1360.785 $\pm$ 46.311 χ^2 /NDF: 30770.5/17

Left Out: -2680.012 $\pm$ 35.764 χ^2 /NDF: 56820.4/24

Right Out: 1662.747 $\pm$ 43.553 χ^2 /NDF: 17128.8/19

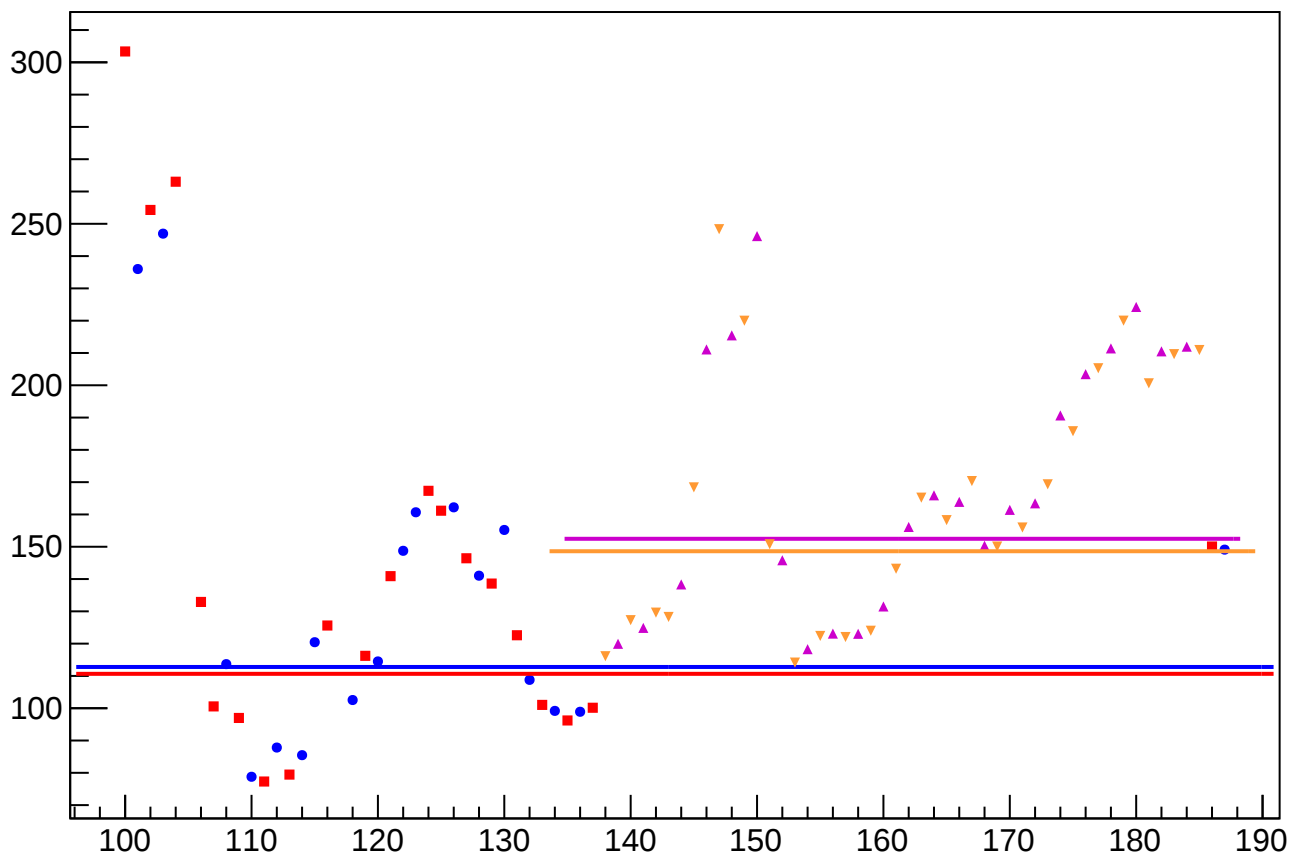
Left In: 8036.826 $\pm$ 37.924 χ^2 /NDF: 29261.6/22

+ sign -1170.448 $\pm$ 28.306 χ^2 /NDF: 92360.0/42

All: 2025.280 $\pm$ 20.119 χ^2 /NDF: 176692.9/85

- sign 5288.044 $\pm$ 28.601 χ^2 /NDF: 58572.4/42

asym_bpm0i01aWS_rms vs Slug



Right In: 112.775 $\pm$ 0.033 χ^2 /NDF: 1141481.0/17

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF:1685424.1/24

Right Out: 110.649 $\pm$ 0.031 χ^2 /NDF: 1317004.4/19

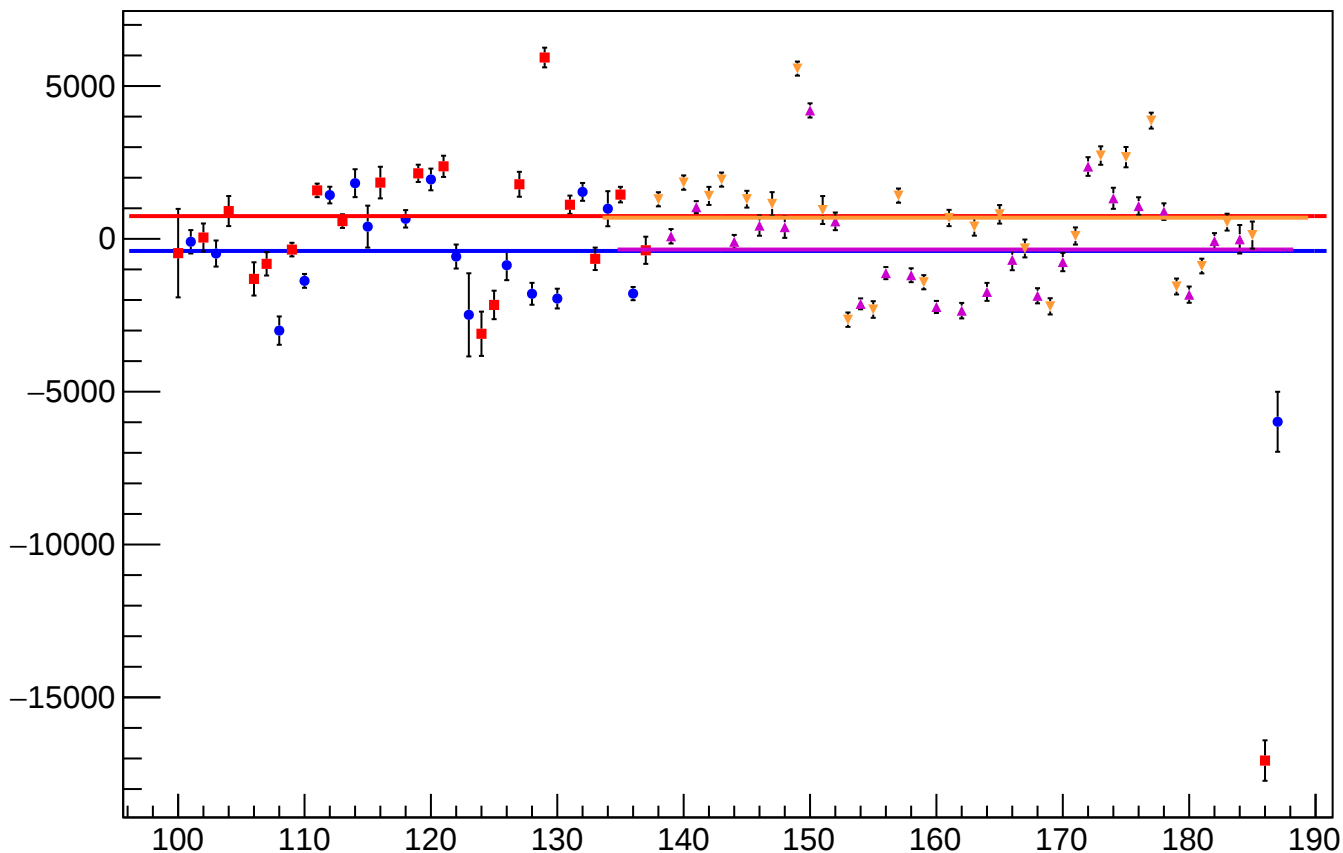
Left In: 152.463 $\pm$ 0.027 χ^2 /NDF:1691517.7/22

+ sign 135.223 $\pm$ 0.020 χ^2 /NDF: 3577078.8/42

All: 134.831 $\pm$ 0.014 χ^2 /NDF: 7634866.9/85

- sign 134.431 $\pm$ 0.020 χ^2 /NDF: 4057013.5/42

asym_bpm0l01WS_mean vs Slug



Right In: -395.888 ± 83.709 χ^2/NDF : 343.2/17

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: 744.115 ± 77.124 χ^2/NDF : 1211.1/19

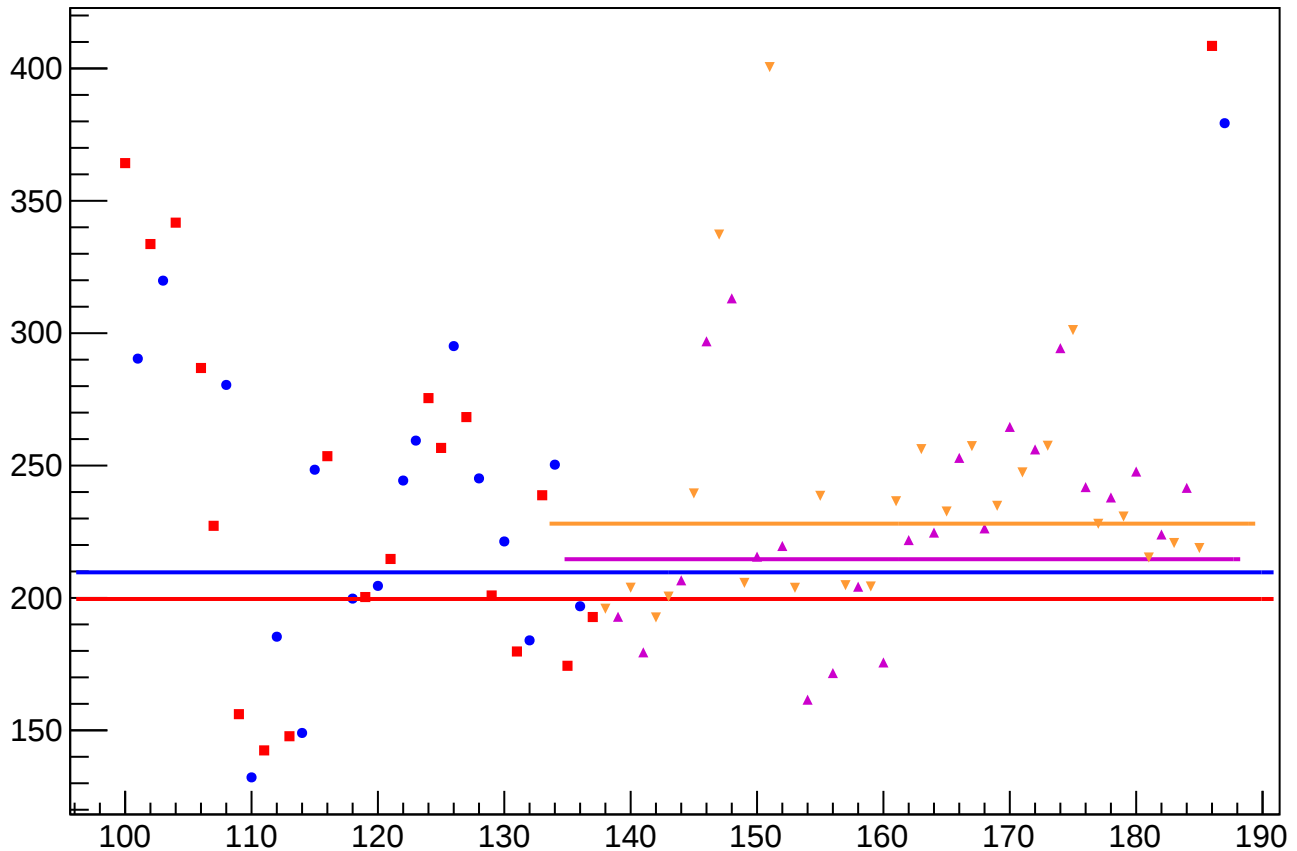
Left In: -349.623 ± 53.094 χ^2/NDF : 981.0/22

+ sign 370.486 ± 45.557 χ^2/NDF : 1884.4/42

All: 178.747 ± 31.549 χ^2/NDF : 4246.9/85

- sign 2.057 ± 43.733 χ^2/NDF : 2328.5/42

asym_bpm0l01WS_rms vs Slug



Right In: 209.672 $\pm$ 0.059 χ^2 /NDF: 757152.6/17

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 199.605 $\pm$ 0.055 χ^2 /NDF: 1127364.9/19

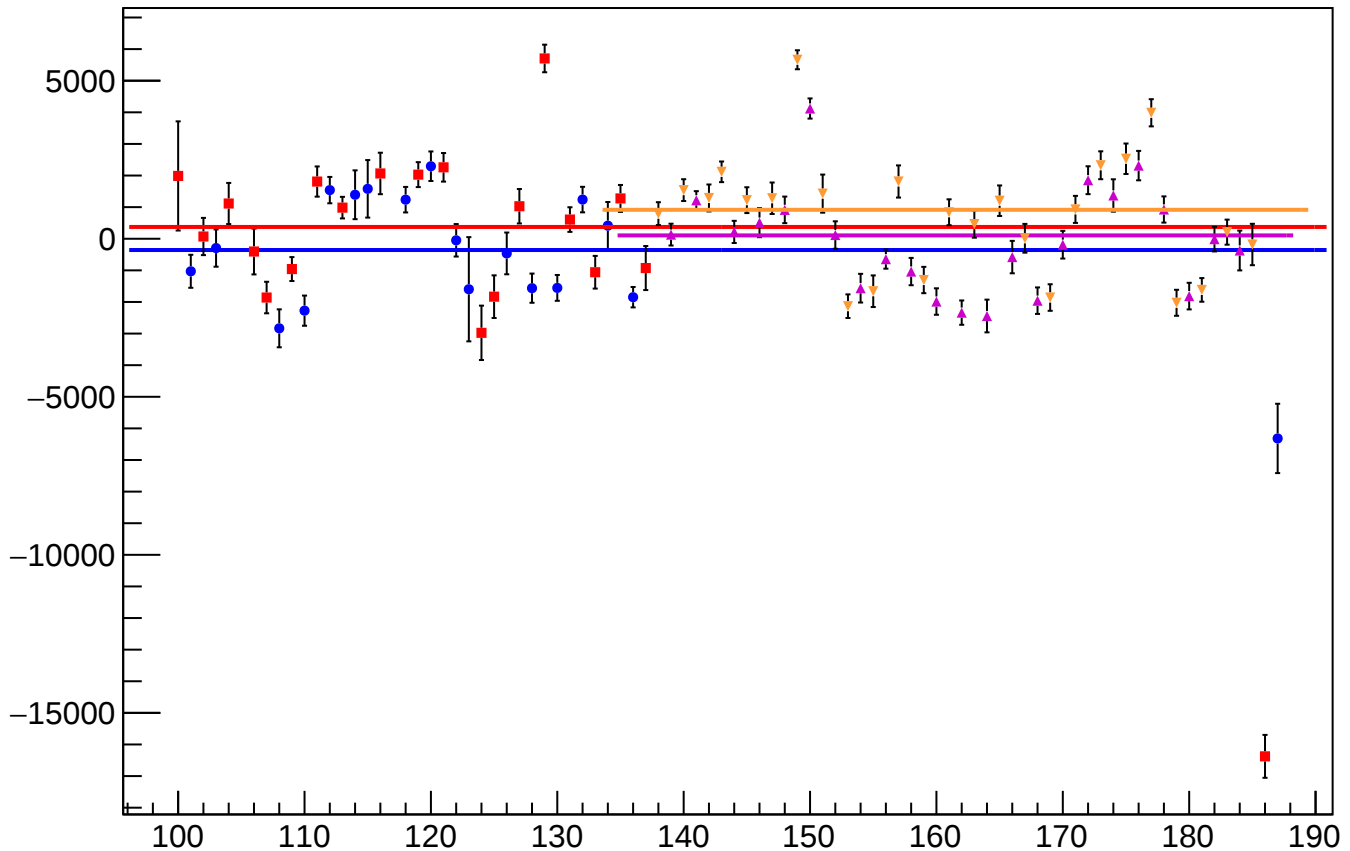
Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

+ sign 222.614 $\pm$ 0.032 χ^2 /NDF: 1651421.8/42

All: 215.944 $\pm$ 0.022 χ^2 /NDF: 3938341.2/85

- sign 209.797 $\pm$ 0.031 χ^2 /NDF: 2204527.2/42

asym_bpm0l02WS_mean vs Slug



Right In: -356.367 ± 120.824 χ^2/NDF : 196.8/17

Left Out: 915.968 ± 83.398 χ^2/NDF : 618.3/24

Right Out: 373.461 ± 113.711 χ^2/NDF : 891.6/19

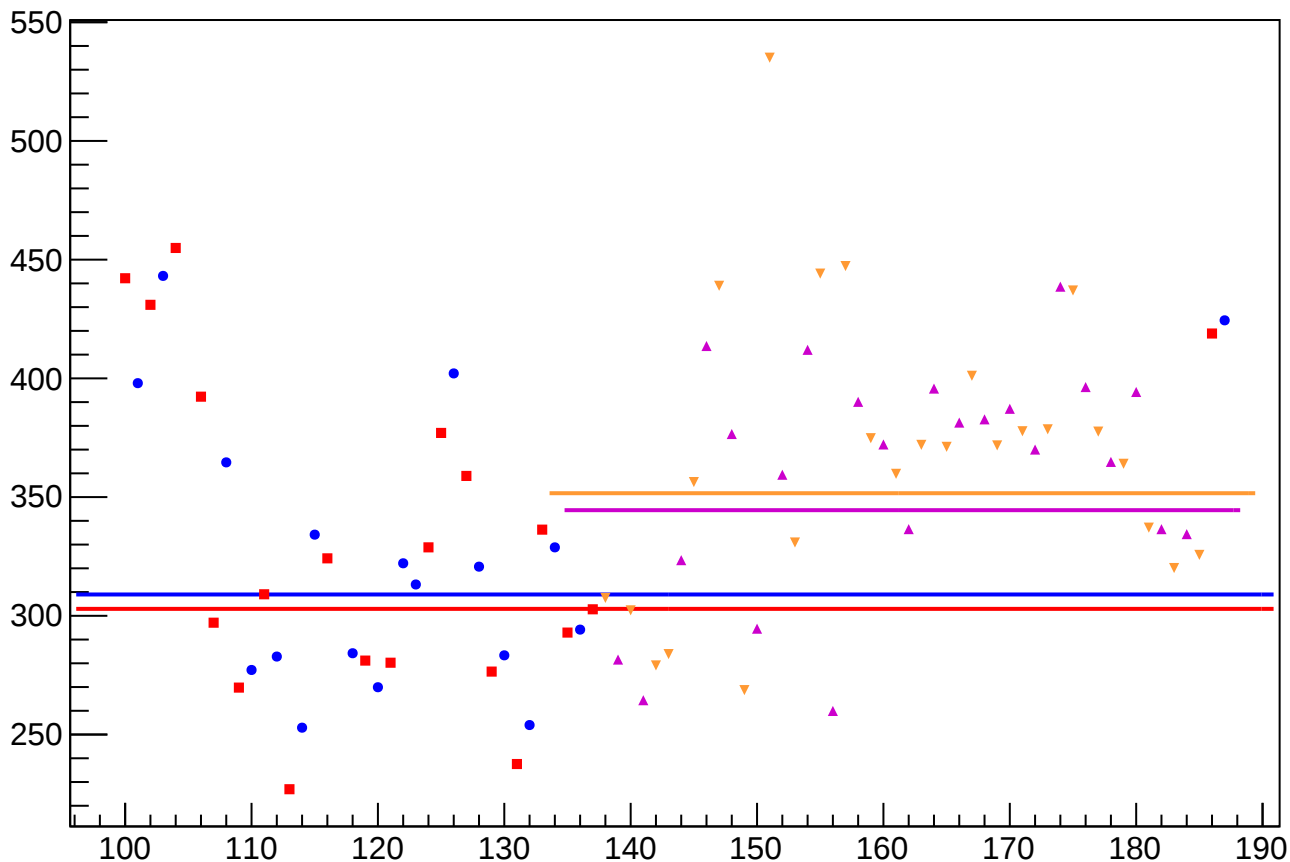
Left In: 106.116 ± 84.393 χ^2/NDF : 390.3/22

+ sign 505.391 ± 68.636 χ^2/NDF : 890.2/42

All: 351.296 ± 48.223 χ^2/NDF : 2185.6/85

- sign 201.071 ± 67.768 χ^2/NDF : 1285.4/42

asym_bpm0l02WS_rms vs Slug



Right In: 308.984 $\pm$ 0.085 χ^2 /NDF: 343954.1/17

Left Out: 351.633 $\pm$ 0.059 χ^2 /NDF: 907849.3/24

Right Out: 302.926 $\pm$ 0.080 χ^2 /NDF: 553623.2/19

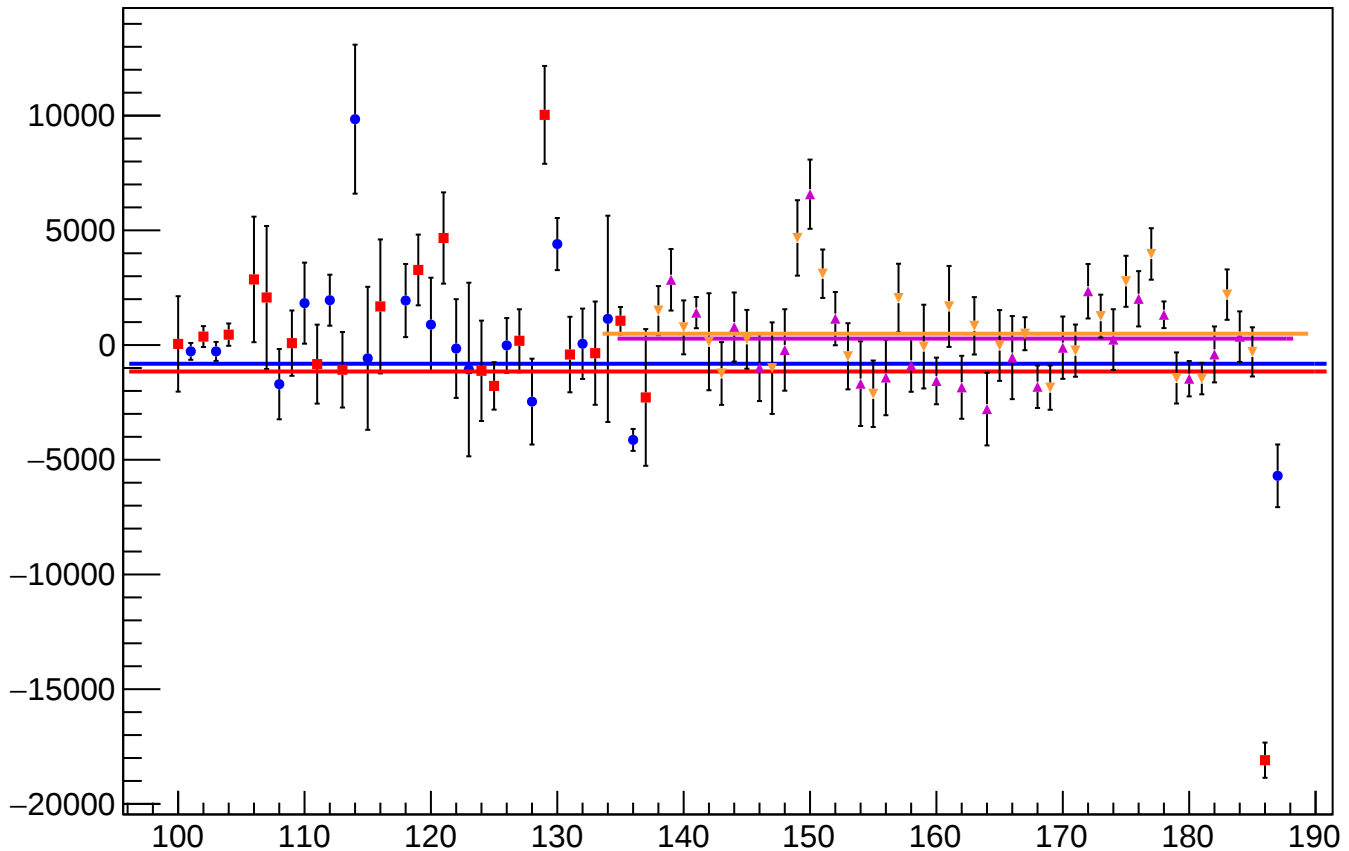
Left In: 344.491 $\pm$ 0.060 χ^2 /NDF: 768885.4/22

+ sign 337.870 $\pm$ 0.049 χ^2 /NDF: 1420582.0/42

All: 333.747 $\pm$ 0.034 χ^2 /NDF: 2929656.3/85

- sign 329.728 $\pm$ 0.048 χ^2 /NDF: 1494821.1/42

asym_bpm0l03WS_mean vs Slug



Right In: -815.349 ± 208.049 $\chi^2/\text{NDF}: 111.0/17$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: -1152.766 ± 232.030 $\chi^2/\text{NDF}: 574.4/19$

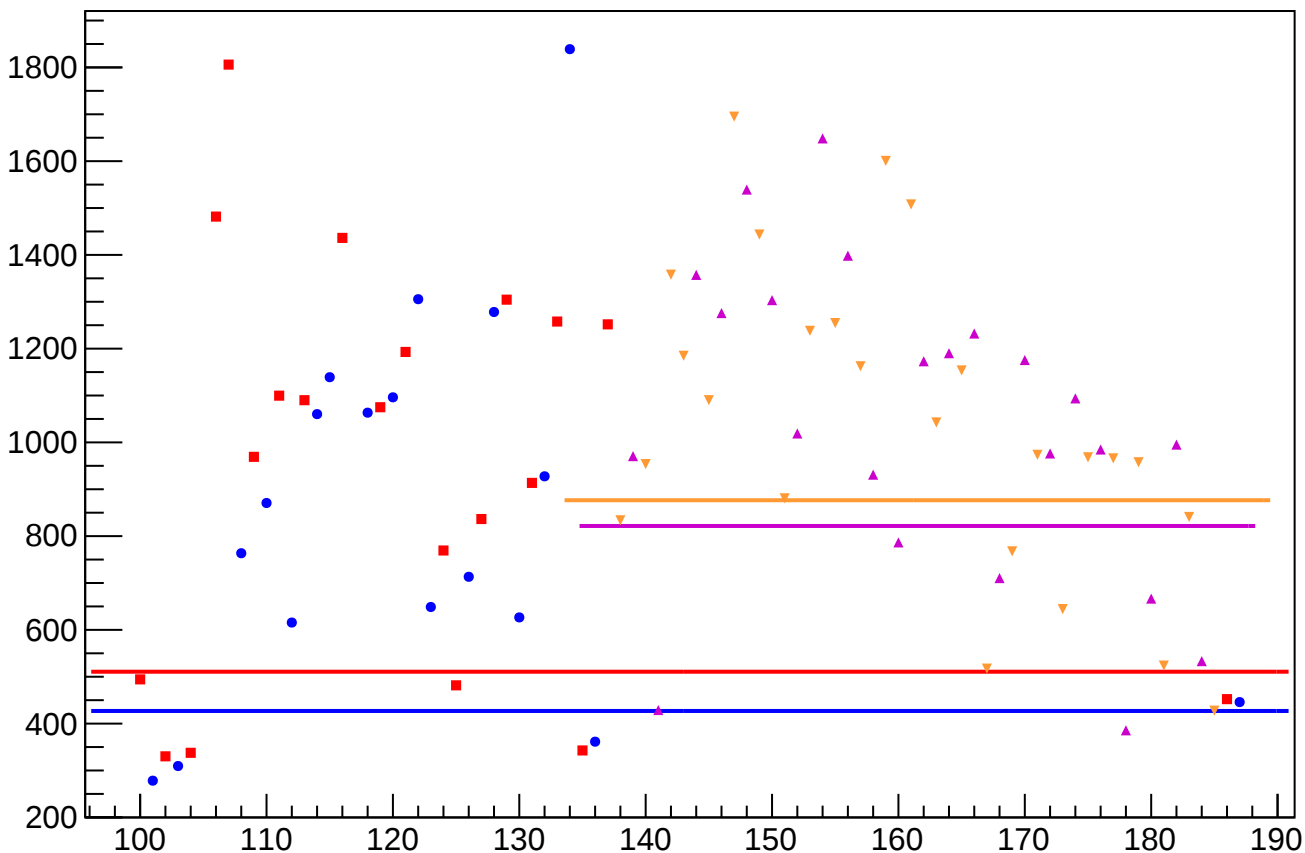
Left In: 280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

+ sign -228.642 ± 154.609 $\chi^2/\text{NDF}: 185.0/42$

All: -326.210 ± 112.523 $\chi^2/\text{NDF}: 836.6/85$

- sign -436.092 ± 164.076 $\chi^2/\text{NDF}: 650.7/42$

asym_bpm0l03WS_rms vs Slug



Right In: 426.971 $\pm$ 0.147 χ^2 /NDF: 2863467.5/17

Left Out: 876.560 $\pm$ 0.163 χ^2 /NDF: 3434698.7/24

Right Out: 510.714 $\pm$ 0.164 χ^2 /NDF: 3610808.4/19

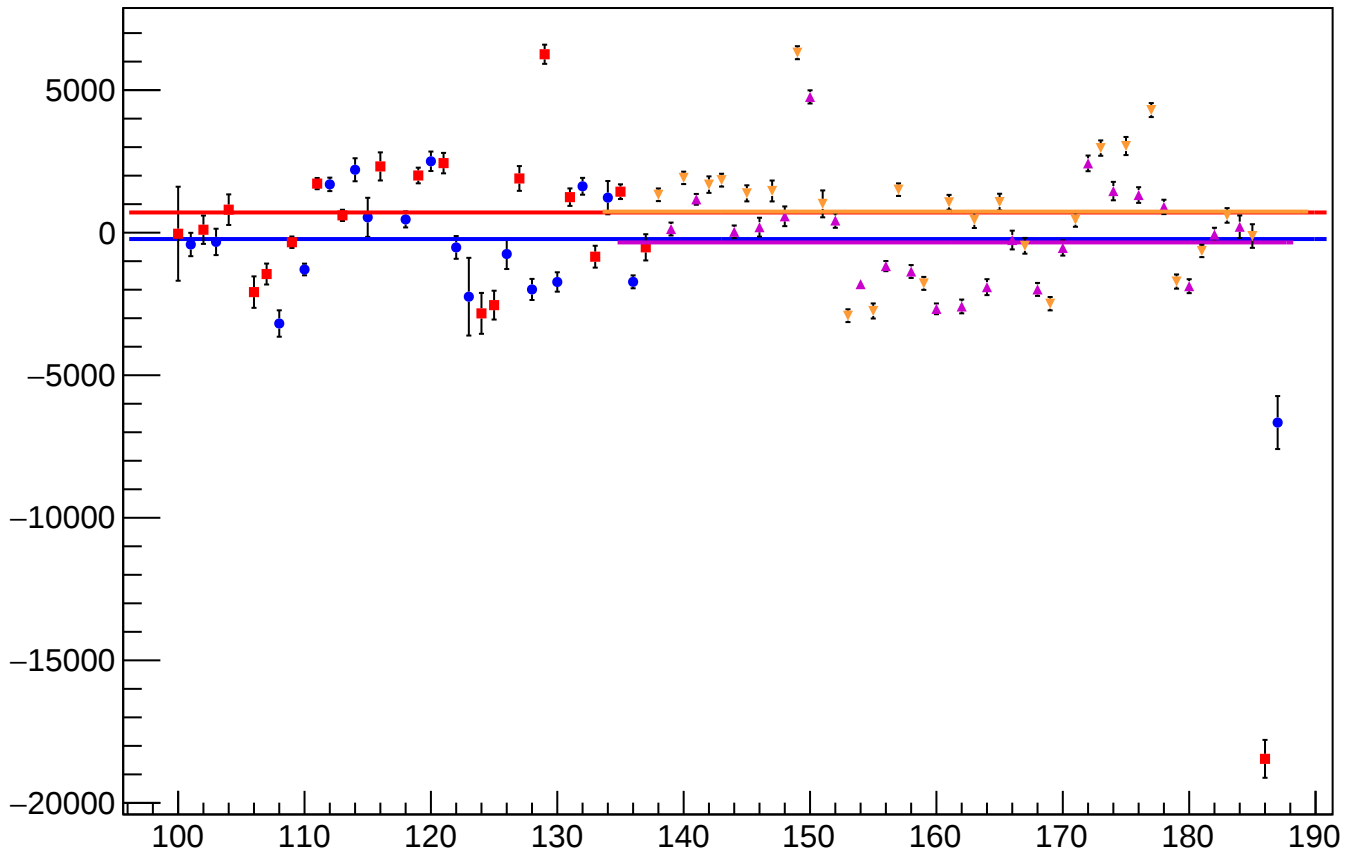
Left In: 821.657 $\pm$ 0.164 χ^2 /NDF: 4443094.2/22

+ sign 628.272 $\pm$ 0.109 χ^2 /NDF: 10479931.4/42

All: 646.098 $\pm$ 0.080 χ^2 /NDF: 20386097.1/85

- sign 666.174 $\pm$ 0.116 χ^2 /NDF: 9849636.1/42

asym_bpm0l04WS_mean vs Slug



Right In: -223.313 ± 82.221 χ^2/NDF : 424.9/17

Left Out: 738.847 ± 51.649 χ^2/NDF : 1935.2/24

Right Out: 708.658 ± 74.629 χ^2/NDF : 1383.5/19

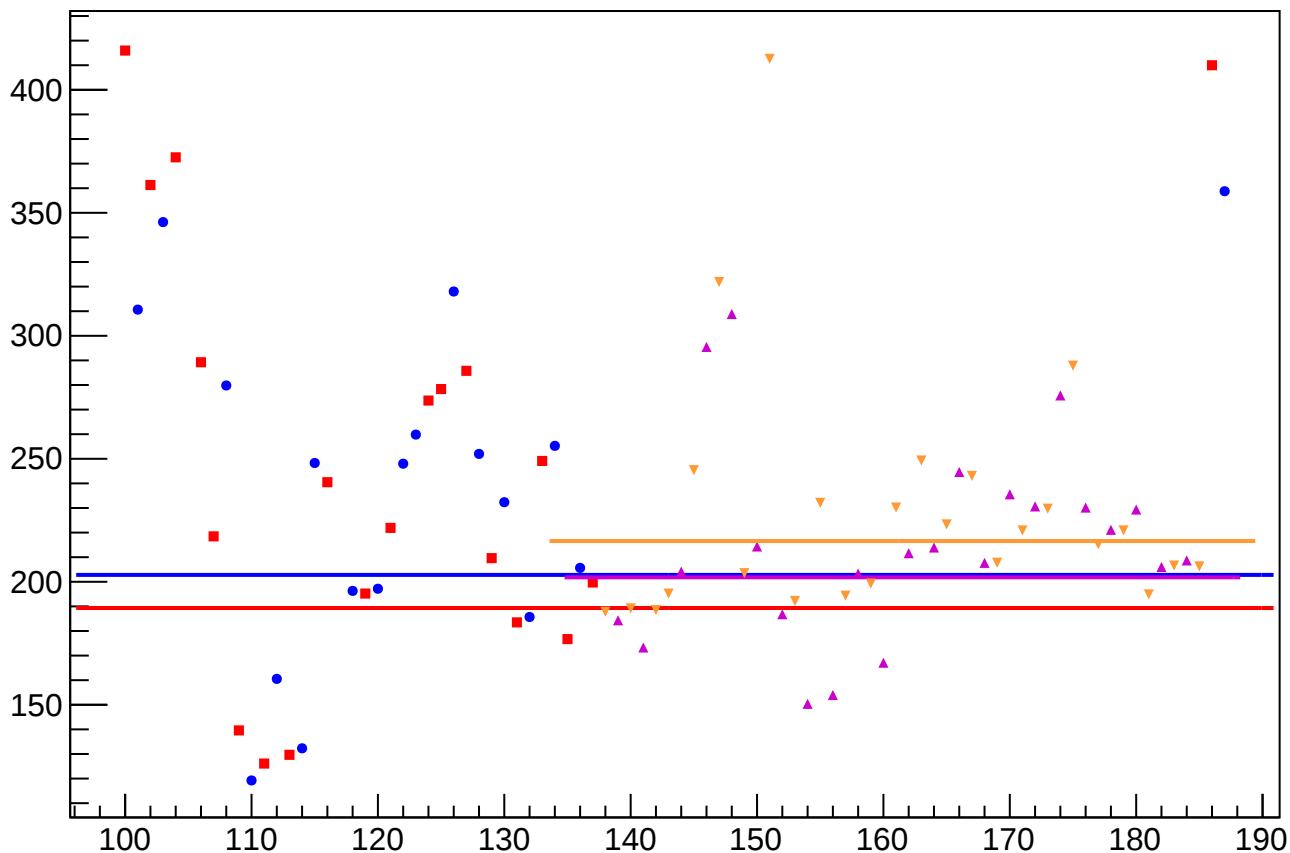
Left In: -342.465 ± 50.044 χ^2/NDF : 1254.9/22

+ sign 466.603 ± 43.736 χ^2/NDF : 2458.3/42

All: 212.804 ± 30.129 χ^2/NDF : 5297.6/85

- sign -16.417 ± 41.564 χ^2/NDF : 2775.3/42

asym_bpm0l04WS_rms vs Slug



Right In: 202.803 $\pm$ 0.058 χ^2 /NDF: 1109125.6/17

Left Out: 216.574 $\pm$ 0.037 χ^2 /NDF: 886214.1/24

Right Out: 189.339 $\pm$ 0.053 χ^2 /NDF: 1611739.0/19

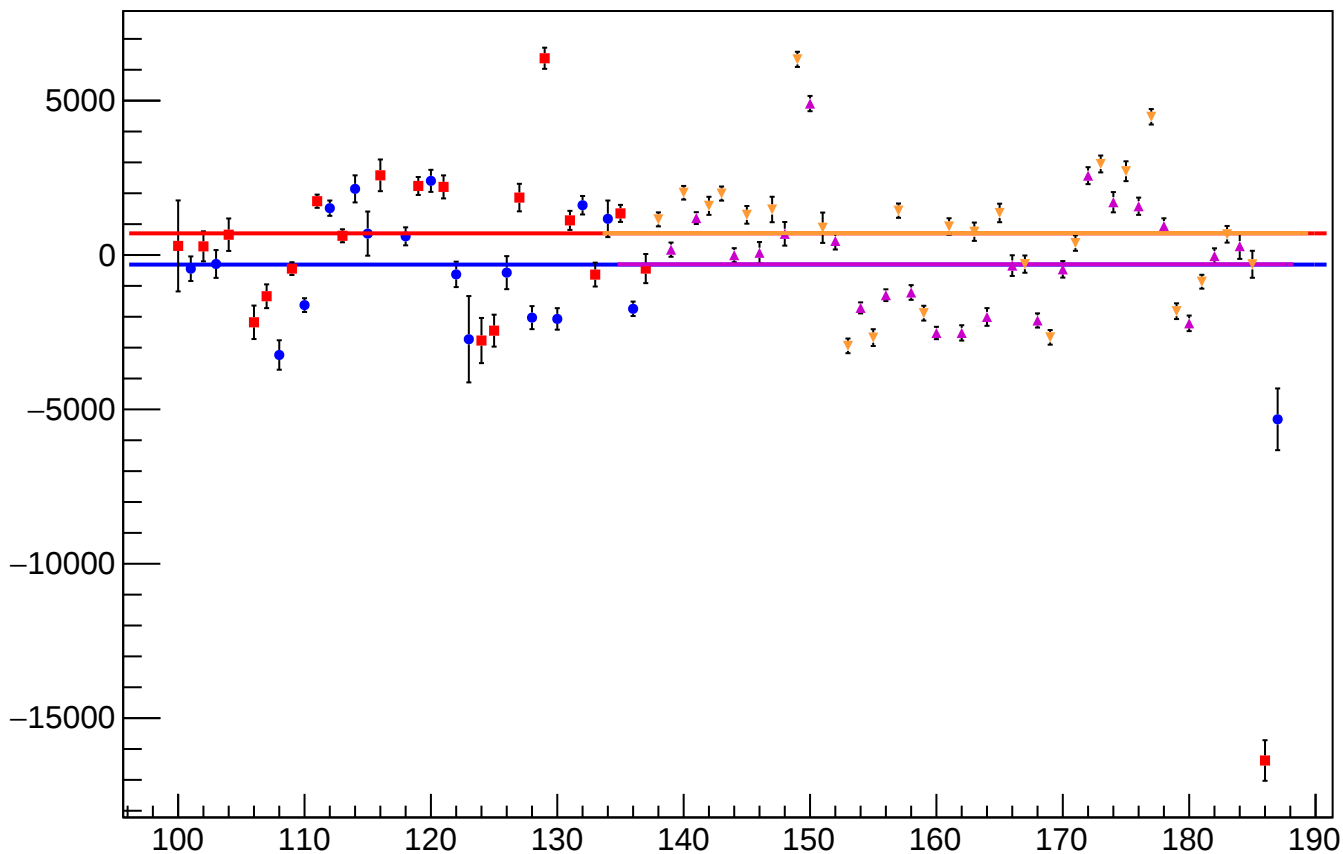
Left In: 201.805 $\pm$ 0.035 χ^2 /NDF: 1087243.4/22

+ sign 212.677 $\pm$ 0.031 χ^2 /NDF: 2035572.1/42

All: 204.933 $\pm$ 0.021 χ^2 /NDF: 4892405.6/85

- sign 197.938 $\pm$ 0.029 χ^2 /NDF: 2737482.0/42

asym_bpm0l05WS_mean vs Slug



Right In: -310.037 ± 85.318 χ^2/NDF : 388.1/17

Left Out: 711.174 ± 53.245 χ^2/NDF : 1835.3/24

Right Out: 701.475 ± 77.847 χ^2/NDF : 1208.6/19

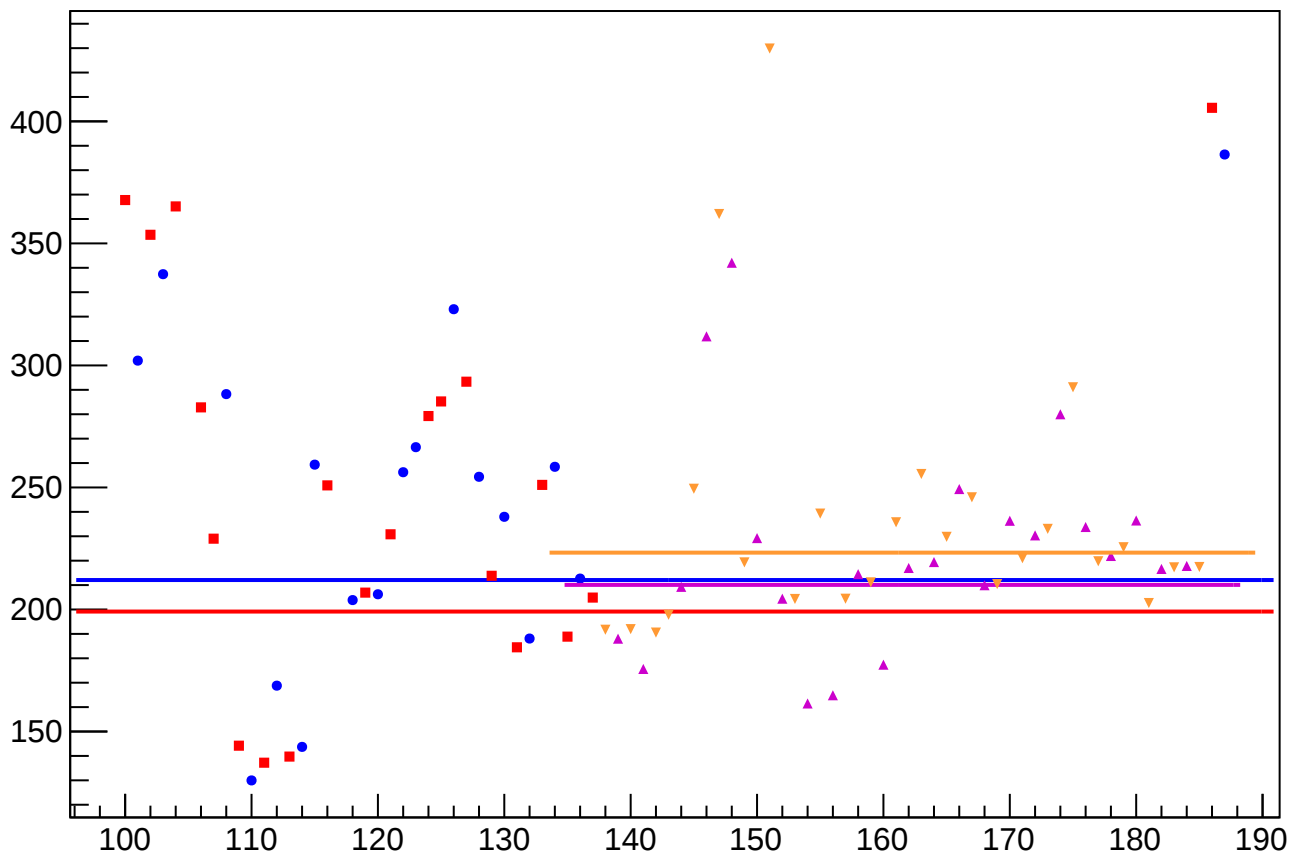
Left In: -300.516 ± 51.984 χ^2/NDF : 1208.6/22

+ sign 424.926 ± 45.170 χ^2/NDF : 2326.5/42

All: 207.580 ± 31.232 χ^2/NDF : 4902.7/85

- sign 8.495 ± 43.231 χ^2/NDF : 2531.8/42

asym_bpm0l05WS_rms vs Slug



Right In: 212.069+/-0.060 χ^2/NDF : 934358.2/17

Left Out: 223.296+/-0.038 χ^2/NDF : 922768.4/24

Right Out: 199.152+/-0.055 χ^2/NDF : 1401581.9/19

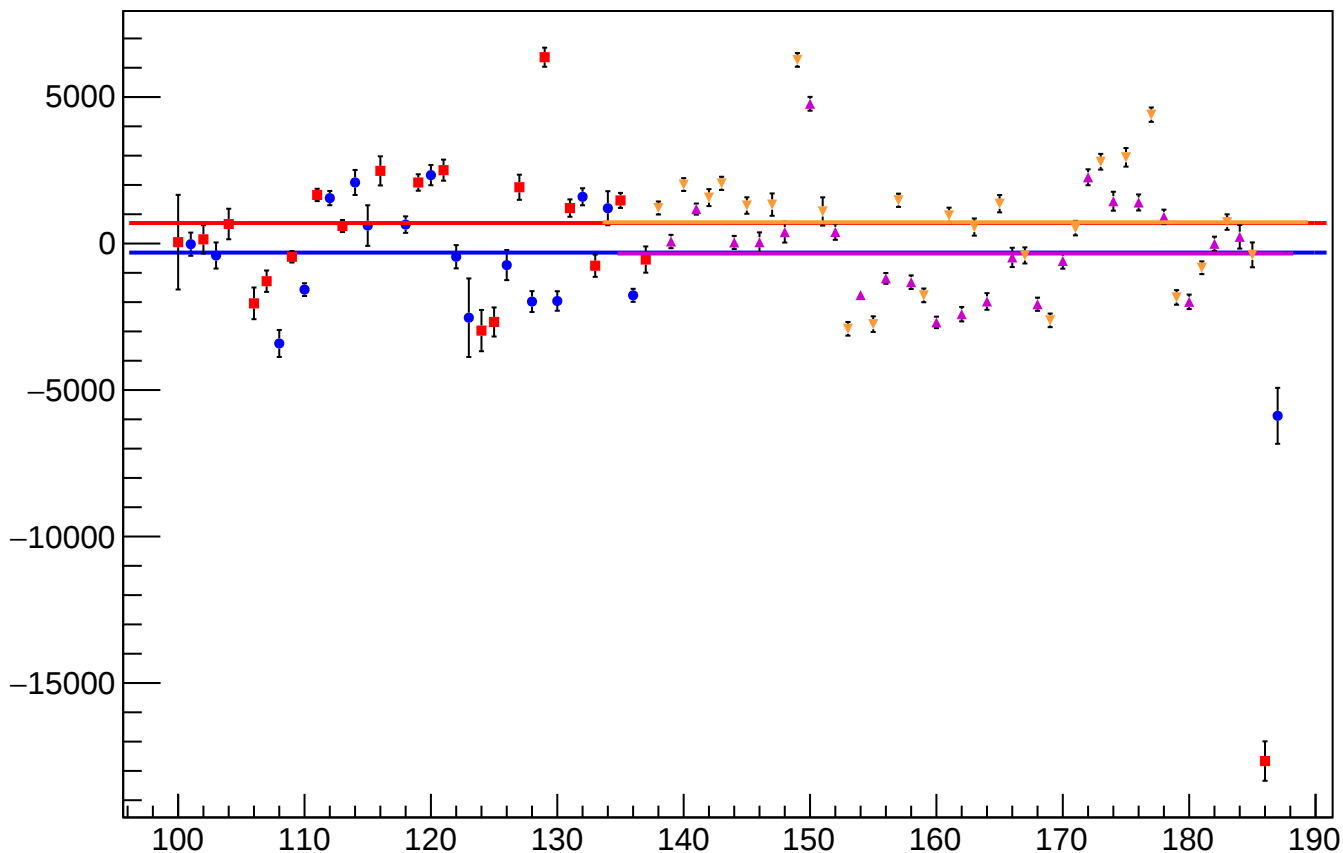
Left In: 210.080+/-0.037 χ^2/NDF : 1015274.5/22

+ sign 220.149+/-0.032 χ^2/NDF : 1882050.8/42

All: 213.135+/-0.022 χ^2/NDF : 4418571.7/85

- sign 206.710+/-0.031 χ^2/NDF : 2444113.6/42

asym_bpm0l06WS_mean vs Slug



Right In: -308.768 ± 82.685 χ^2/NDF : 417.7/17

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 700.526 ± 75.000 χ^2/NDF : 1337.5/19

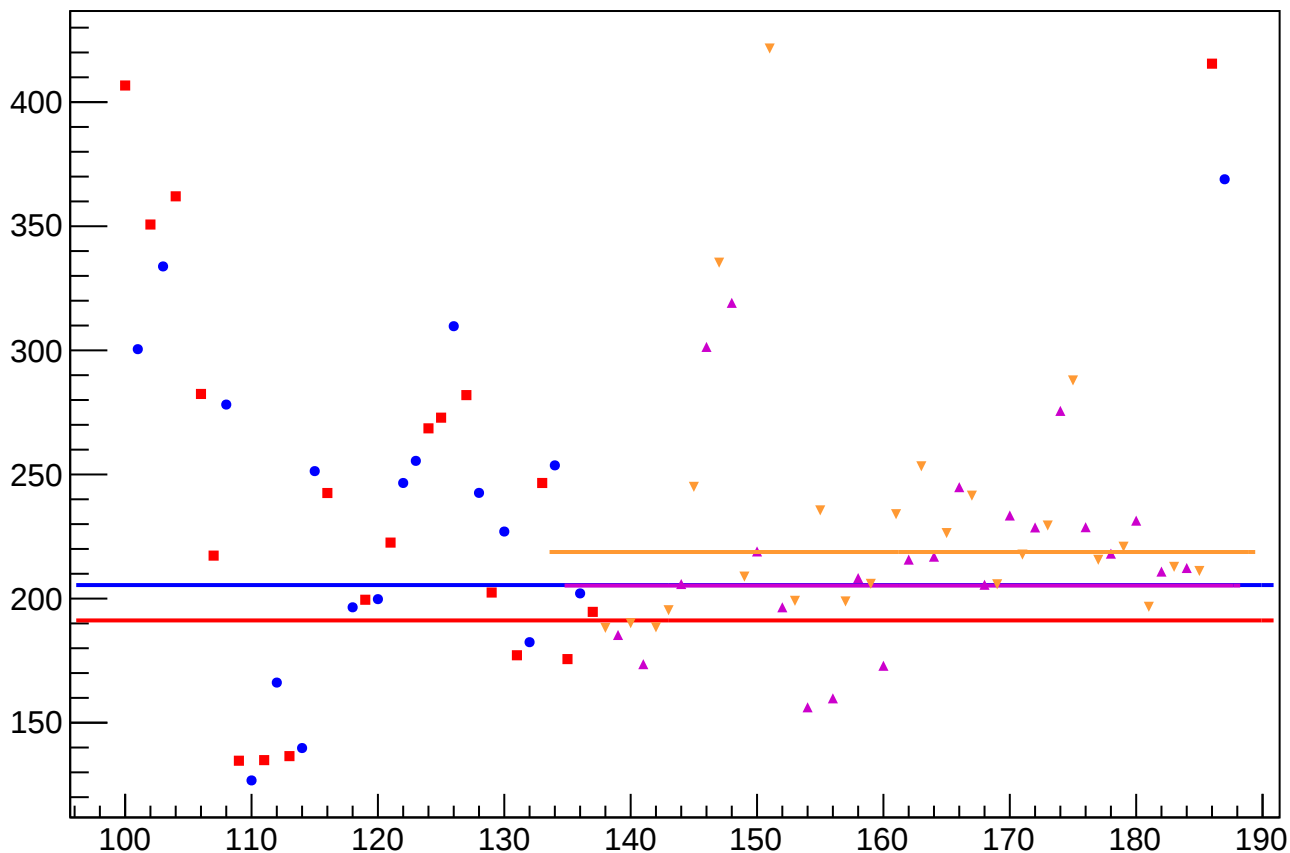
Left In: -340.502 ± 50.802 χ^2/NDF : 1201.8/22

+ sign 431.357 ± 44.115 χ^2/NDF : 2442.4/42

All: 198.554 ± 30.442 χ^2/NDF : 5167.0/85

- sign -13.080 ± 42.061 χ^2/NDF : 2671.4/42

asym_bpm0l06WS_rms vs Slug



Right In: 205.447+/-0.058 χ^2/NDF : 925184.8/17

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 191.202+/-0.053 χ^2/NDF : 1472429.0/19

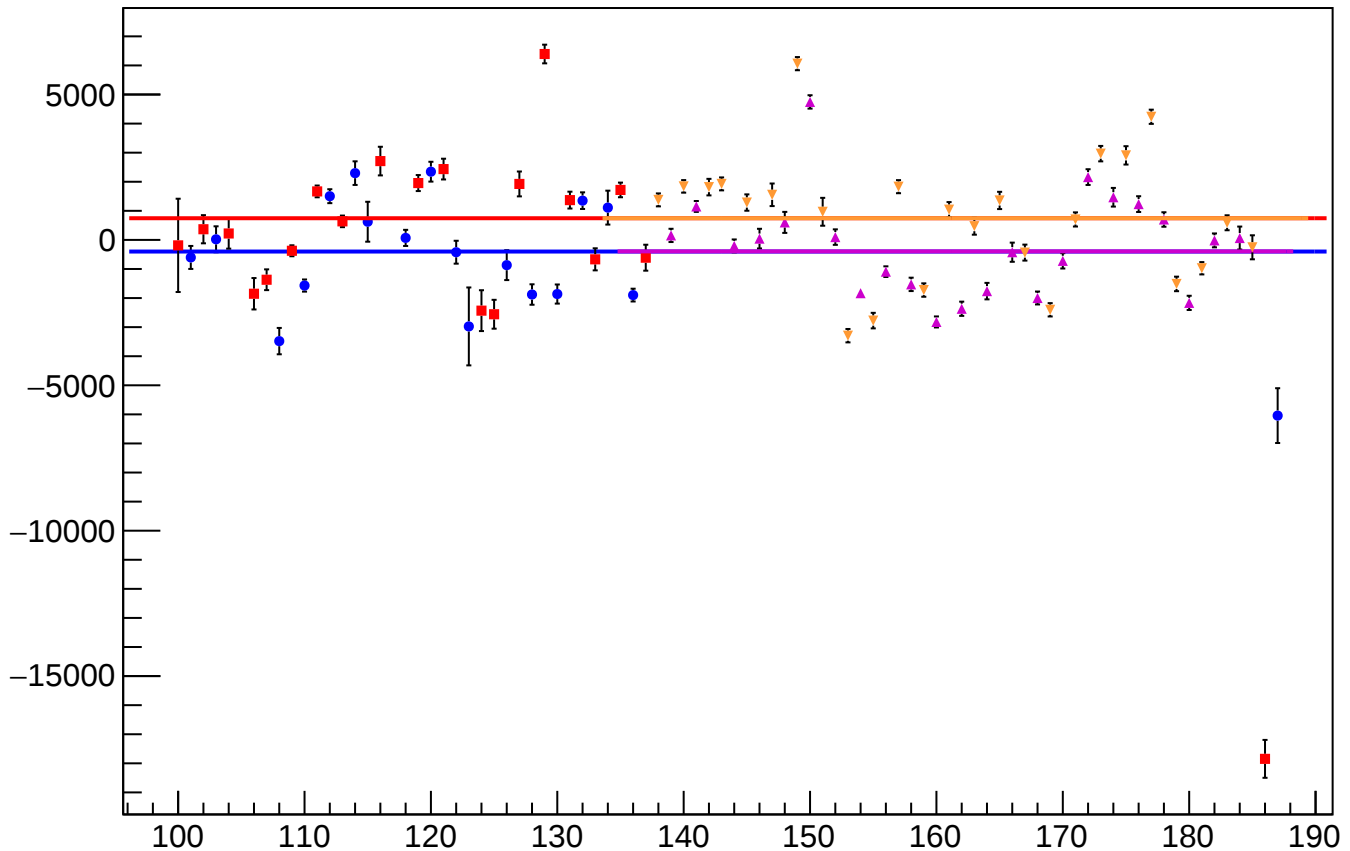
Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

+ sign 214.976+/-0.031 χ^2/NDF : 1859237.9/42

All: 207.567+/-0.022 χ^2/NDF : 4484646.9/85

- sign 200.831+/-0.030 χ^2/NDF : 2517692.8/42

asym_bpm0l07WS_mean vs Slug



Right In: -400.046 ± 81.214 χ^2/NDF : 424.4/17

Left Out: 746.405 ± 51.592 χ^2/NDF : 1942.1/24

Right Out: 745.366 ± 73.381 χ^2/NDF : 1413.3/19

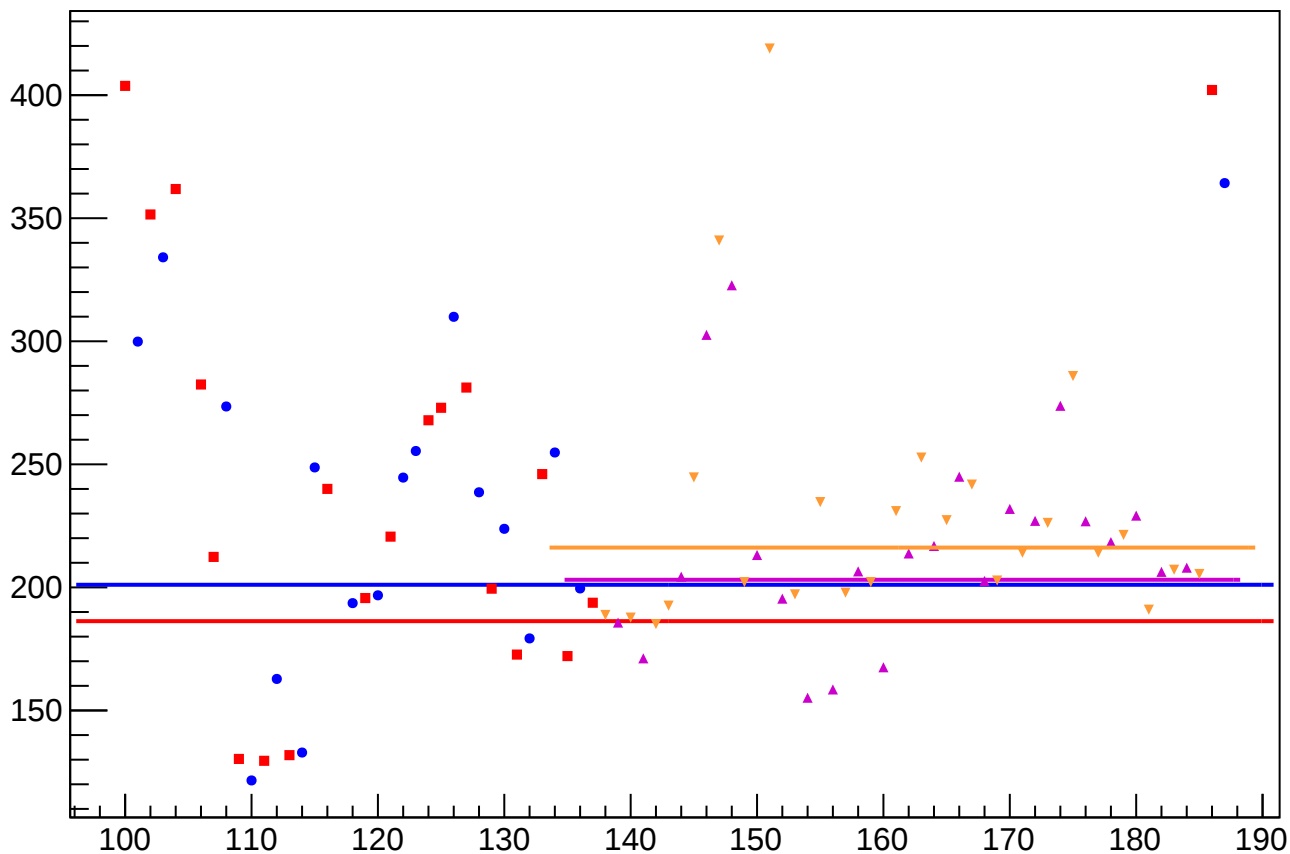
Left In: -394.379 ± 50.311 χ^2/NDF : 1236.4/22

+ sign 416.774 ± 43.548 χ^2/NDF : 2508.4/42

All: 182.644 ± 30.041 χ^2/NDF : 5377.4/85

- sign -29.934 ± 41.495 χ^2/NDF : 2813.8/42

asym_bpm0l07WS_rms vs Slug



Right In: 201.068+/-0.057 χ^2/NDF : 1001231.4/17

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 186.287+/-0.052 χ^2/NDF : 1568249.2/19

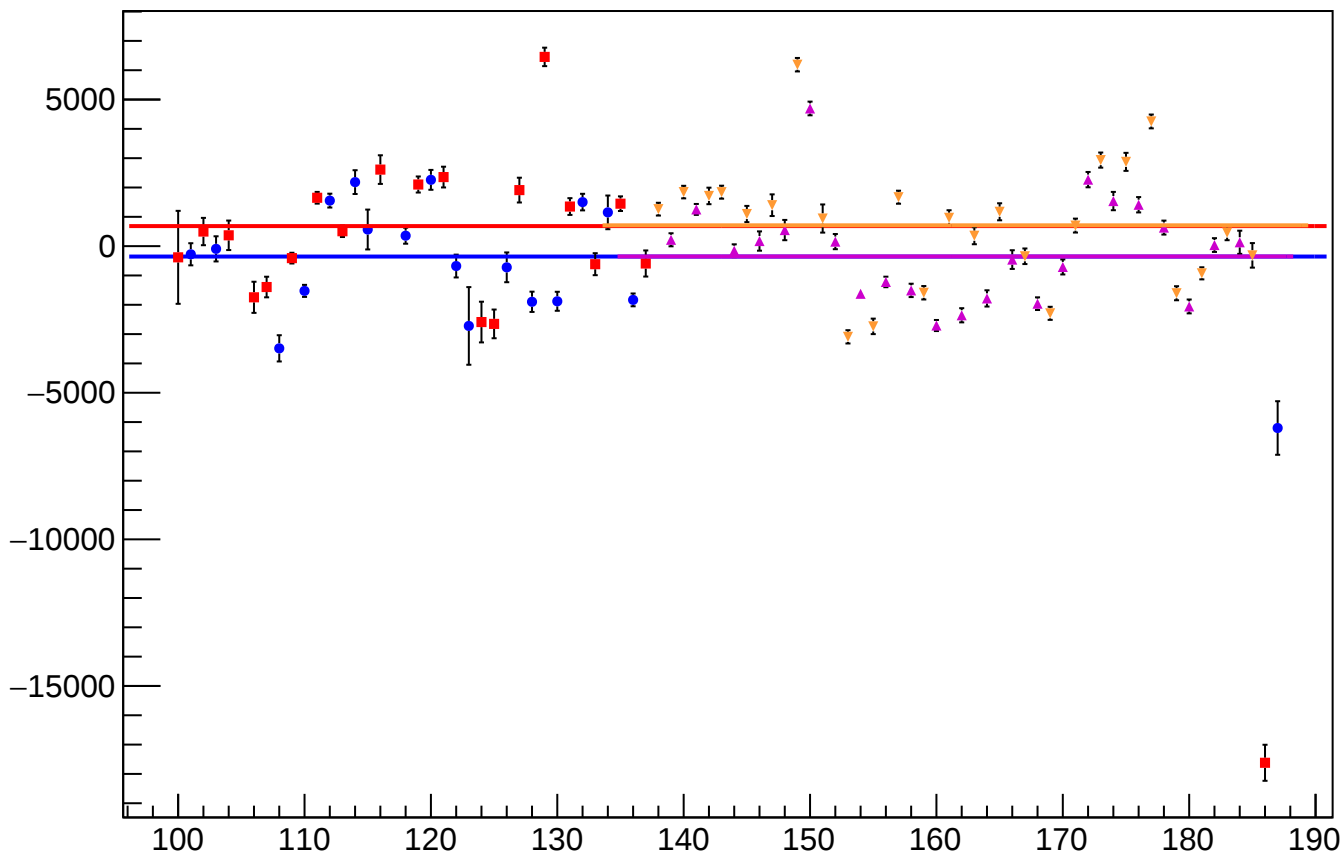
Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

+ sign 211.834+/-0.031 χ^2/NDF : 1996604.4/42

All: 204.439+/-0.021 χ^2/NDF : 4784324.2/85

- sign 197.725+/-0.029 χ^2/NDF : 2677685.6/42

asym_bpm0l08WS_mean vs Slug



Right In: -354.657 ± 80.048 χ^2/NDF : 437.7/17

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 683.927 ± 72.212 χ^2/NDF : 1516.1/19

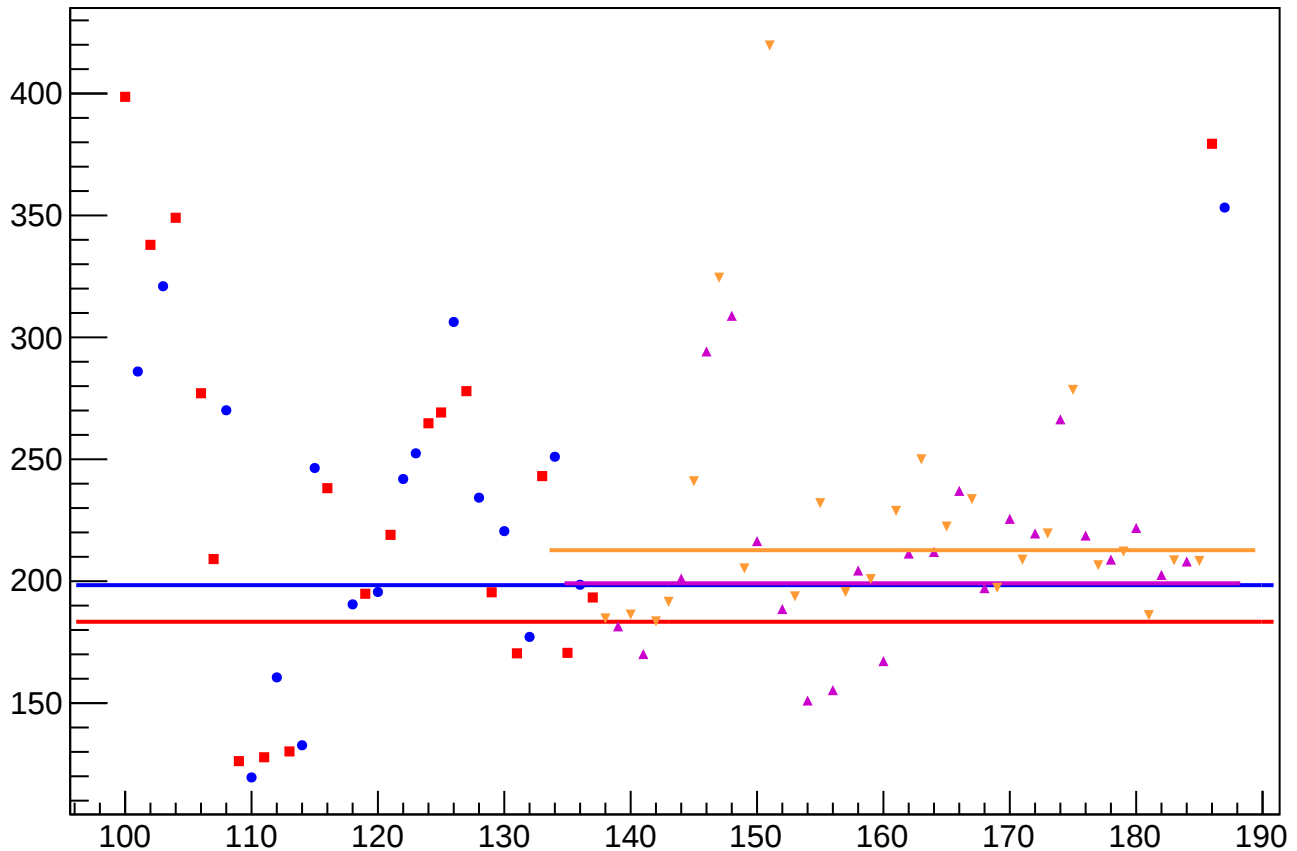
Left In: -352.432 ± 49.316 χ^2/NDF : 1233.1/22

+ sign 404.920 ± 42.862 χ^2/NDF : 2496.2/42

All: 180.126 ± 29.524 χ^2/NDF : 5438.2/85

- sign -22.813 ± 40.725 χ^2/NDF : 2889.6/42

asym_bpm0l08WS_rms vs Slug



Right In: 198.383+/-0.057 χ^2/NDF : 967823.0/17

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 183.368+/-0.051 χ^2/NDF : 1548110.1/19

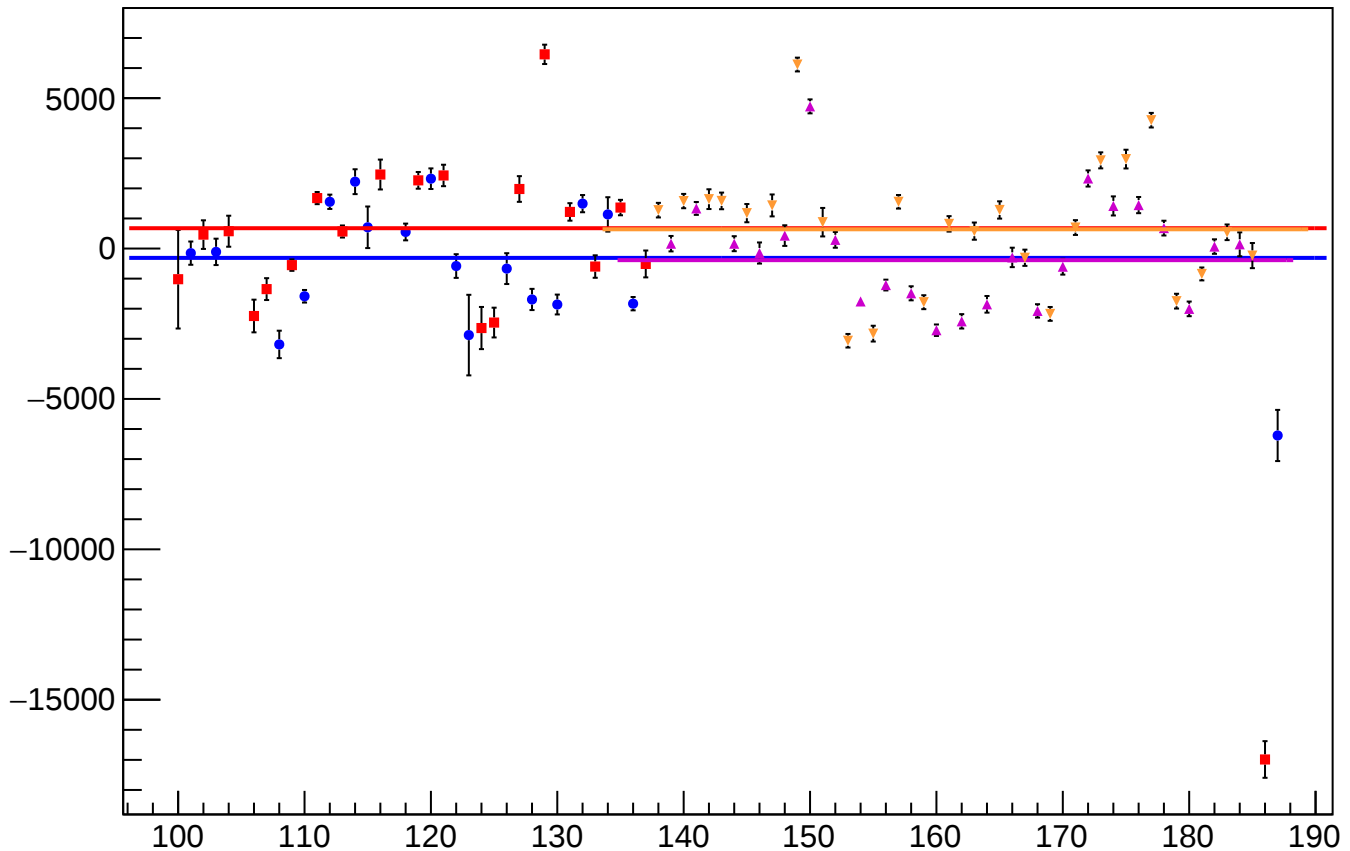
Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

+ sign 208.608+/-0.030 χ^2/NDF : 1929802.3/42

All: 200.997+/-0.021 χ^2/NDF : 4648935.3/85

- sign 194.125+/-0.029 χ^2/NDF : 2599121.1/42

asym_bpm0l09WS_mean vs Slug



Right In: -310.748 ± 81.221 χ^2/NDF : 430.5/17

Left Out: 639.995 ± 52.708 χ^2/NDF : 1859.2/24

Right Out: 675.791 ± 73.625 χ^2/NDF : 1461.7/19

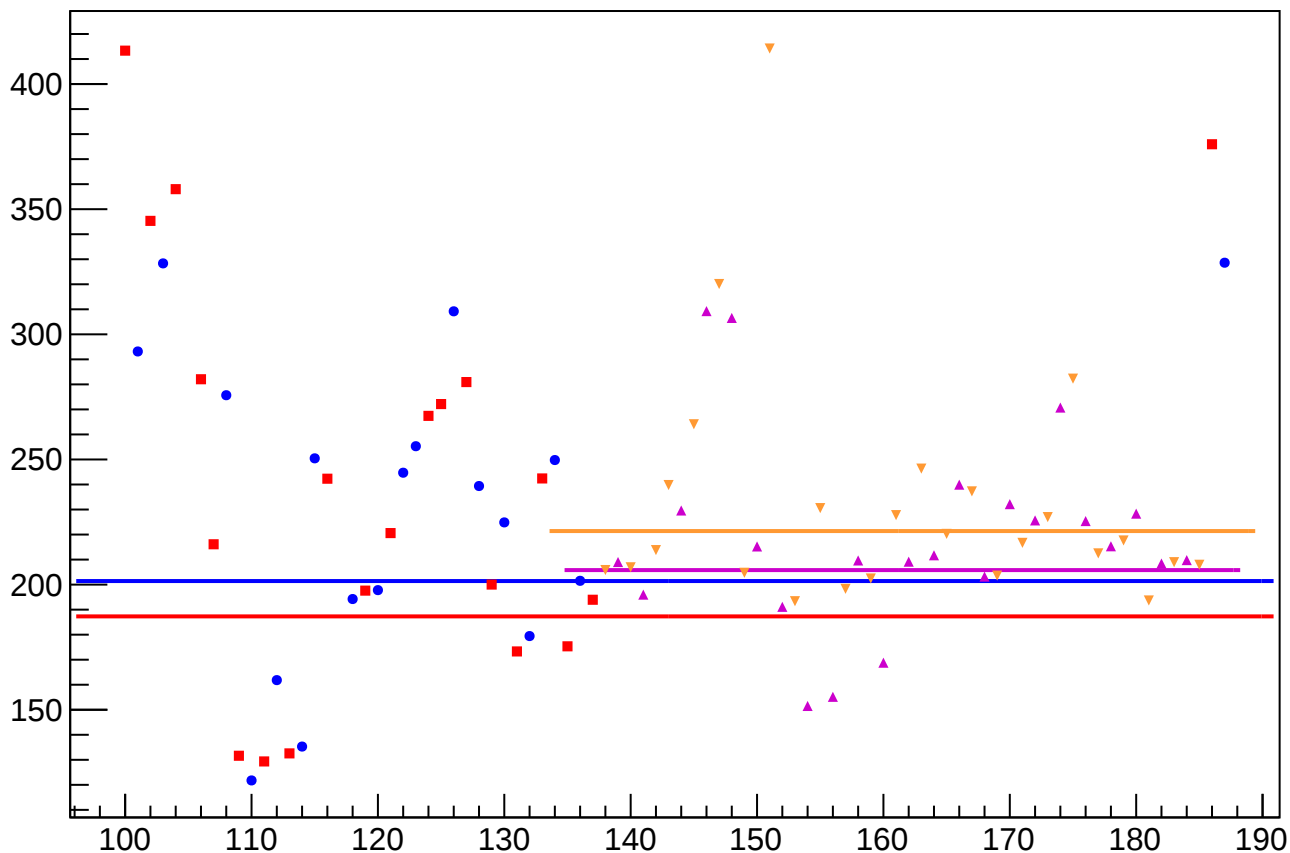
Left In: -386.248 ± 50.994 χ^2/NDF : 1238.0/22

+ sign 358.253 ± 44.214 χ^2/NDF : 2386.1/42

All: 147.506 ± 30.421 χ^2/NDF : 5269.6/85

- sign -41.942 ± 41.921 χ^2/NDF : 2840.4/42

asym_bpm0l09WS_rms vs Slug



Right In: 201.426+/-0.057 χ^2/NDF : 961032.4/17

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 187.305+/-0.052 χ^2/NDF : 1509263.8/19

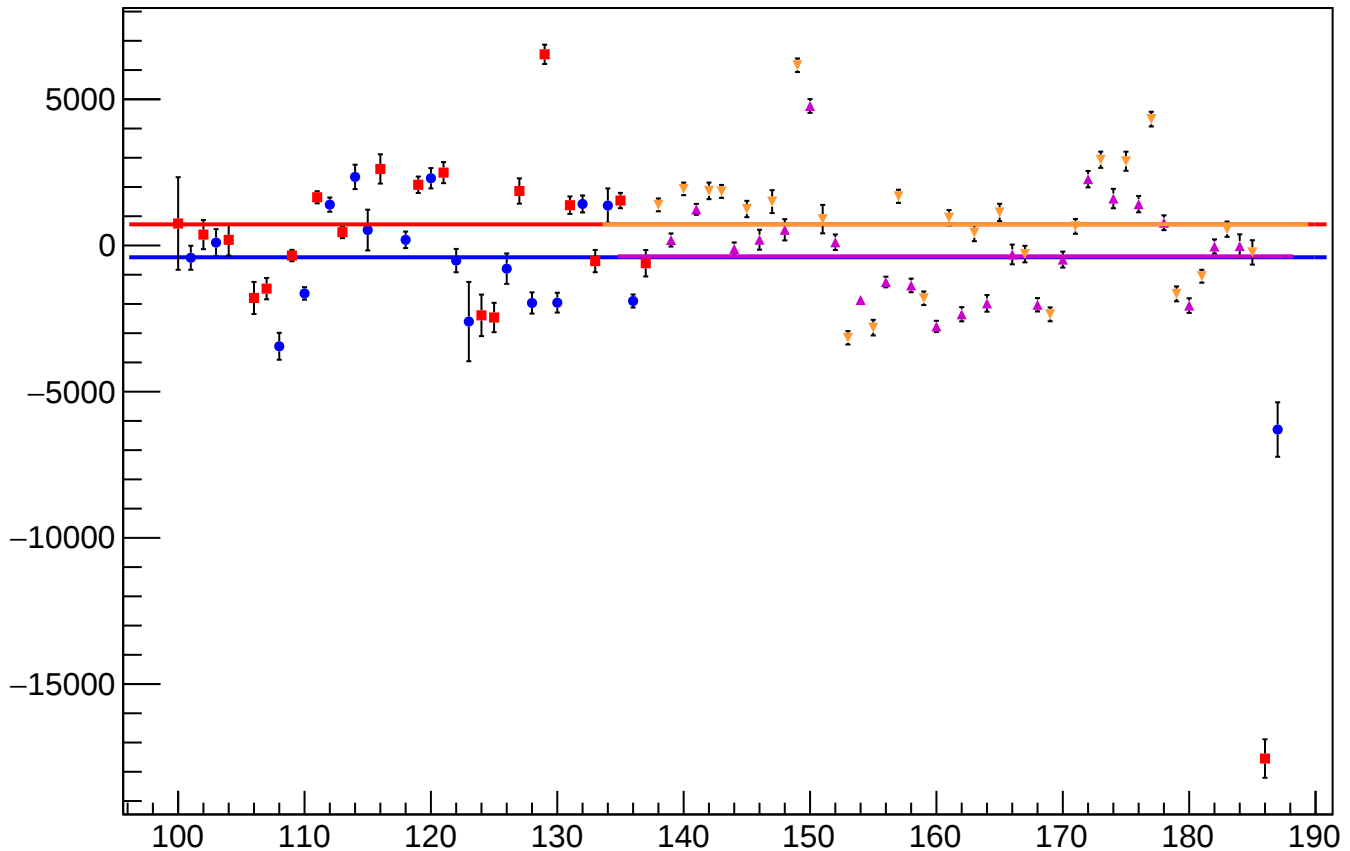
Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

+ sign 215.480+/-0.031 χ^2/NDF : 1823962.0/42

All: 207.226+/-0.022 χ^2/NDF : 4545804.9/85

- sign 199.806+/-0.030 χ^2/NDF : 2589494.1/42

asym_bpm0l10WS_mean vs Slug



Right In: -403.276 ± 82.990 χ^2/NDF : 418.9/17

Left Out: 725.250 ± 52.307 χ^2/NDF : 1883.1/24

Right Out: 722.111 ± 75.217 χ^2/NDF : 1352.7/19

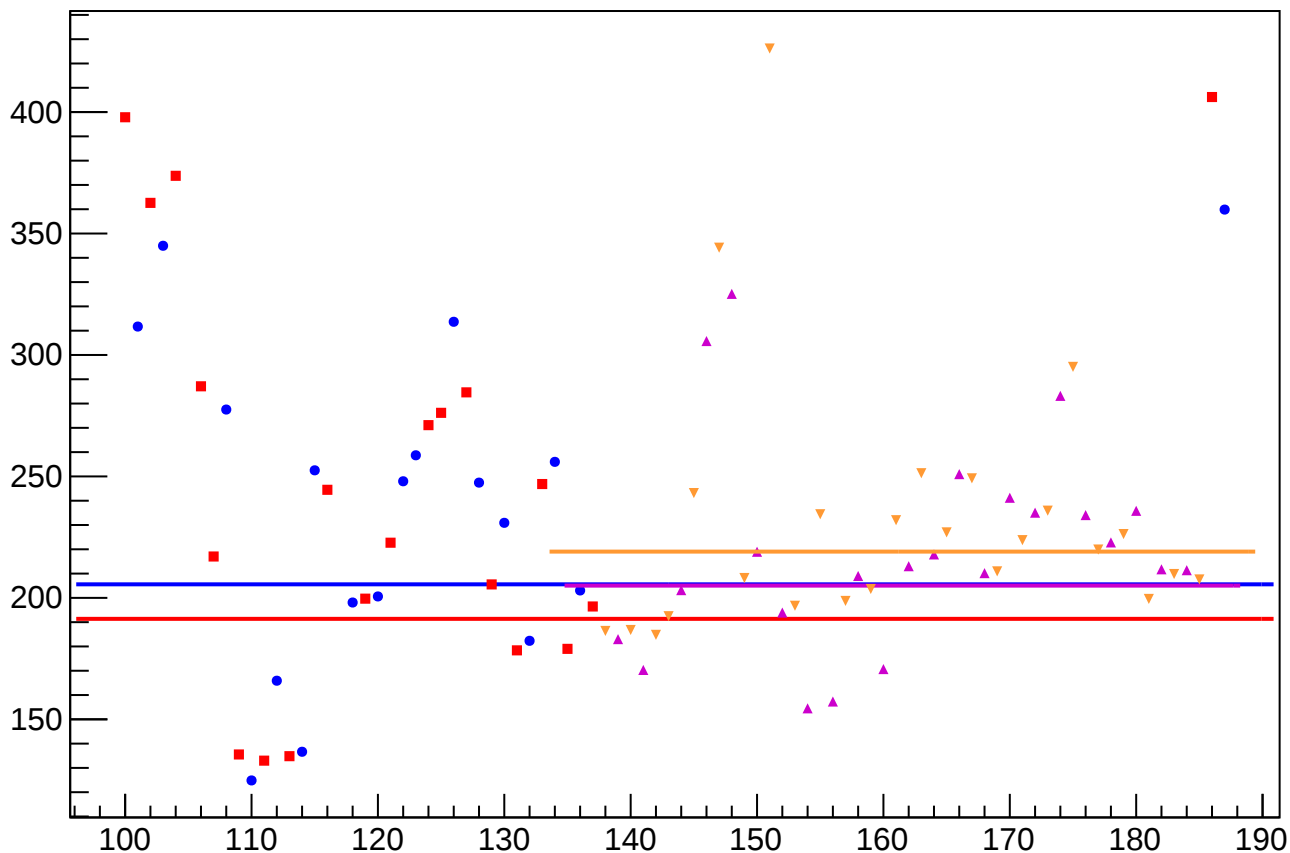
Left In: -370.408 ± 50.884 χ^2/NDF : 1223.2/22

+ sign 404.395 ± 44.251 χ^2/NDF : 2434.4/42

All: 177.987 ± 30.519 χ^2/NDF : 5204.9/85

- sign -27.395 ± 42.146 χ^2/NDF : 2720.6/42

asym_bpm0l10WS_rms vs Slug



Right In: 205.577 $\pm$ 0.059 χ^2 /NDF: 1000238.2/17

Left Out: 219.049 $\pm$ 0.037 χ^2 /NDF:975564.4/24

Right Out: 191.365 $\pm$ 0.053 χ^2 /NDF: 1526884.6/19

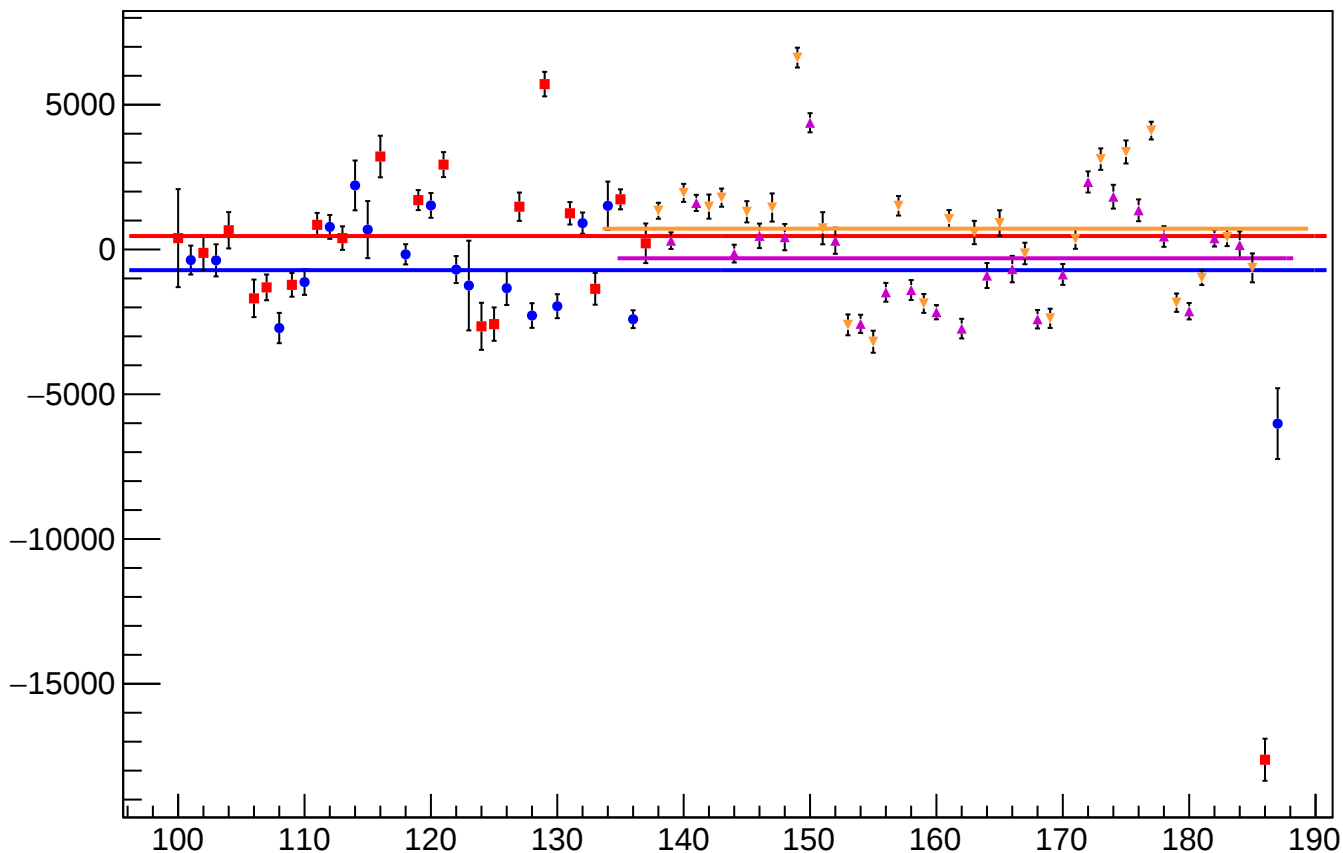
Left In: 205.046 $\pm$ 0.036 χ^2 /NDF:1144197.1/22

+ sign 215.219 $\pm$ 0.031 χ^2 /NDF: 2013518.0/42

All: 207.632 $\pm$ 0.022 χ^2 /NDF: 4842095.5/85

- sign 200.751 $\pm$ 0.030 χ^2 /NDF: 2716478.8/42

asym_bpm0r03WS_mean vs Slug



Right In: -714.349 ± 113.695 χ^2/NDF : 172.3/17

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 464.576 ± 109.577 χ^2/NDF : 953.3/19

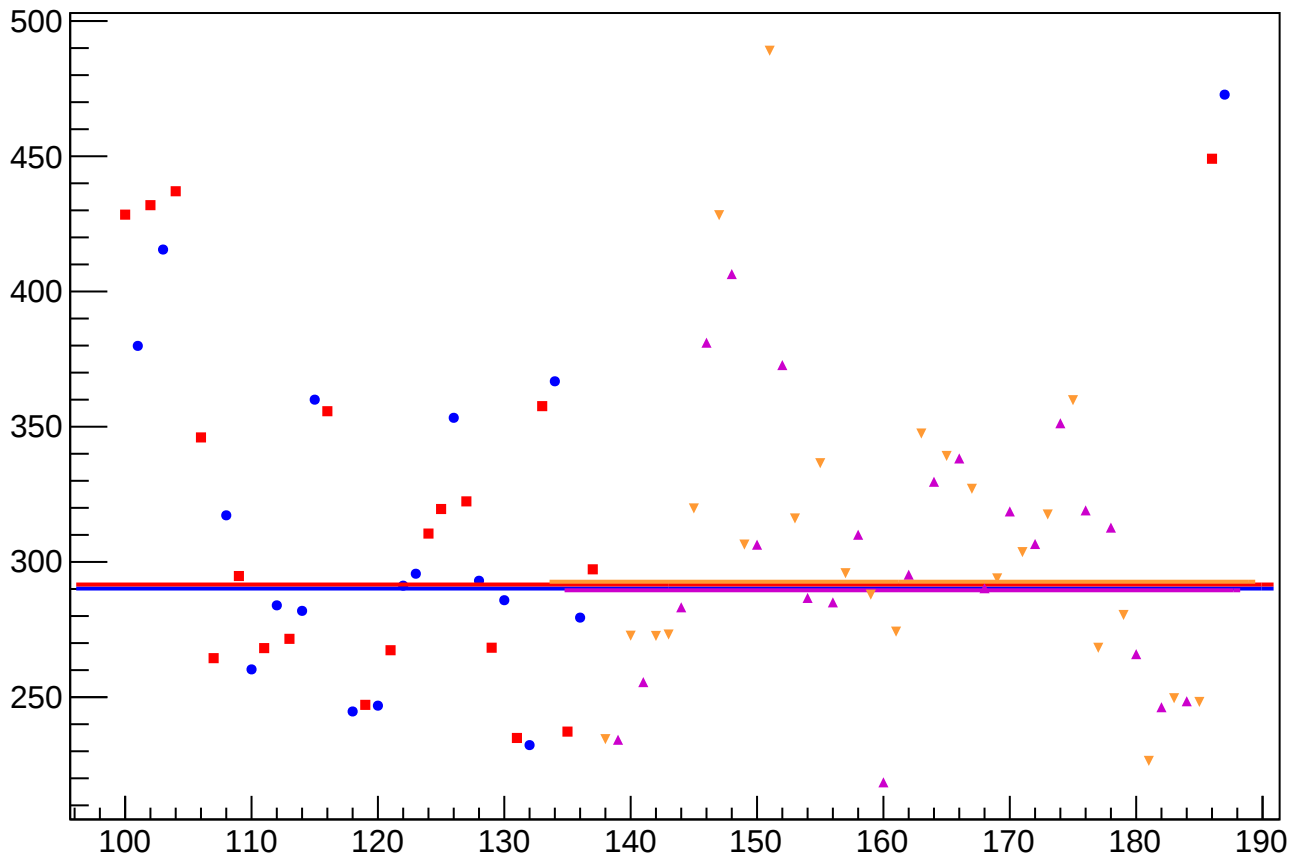
Left In: -304.161 ± 70.958 χ^2/NDF : 643.5/22

+ sign 328.059 ± 59.361 χ^2/NDF : 1306.4/42

All: 126.188 ± 42.045 χ^2/NDF : 2961.1/85

- sign -77.042 ± 59.560 χ^2/NDF : 1631.5/42

asym_bpm0r03WS_rms vs Slug



Right In: 290.170 $\pm$ 0.080 χ^2 /NDF: 383802.4/17

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 291.653 $\pm$ 0.077 χ^2 /NDF: 555880.0/19

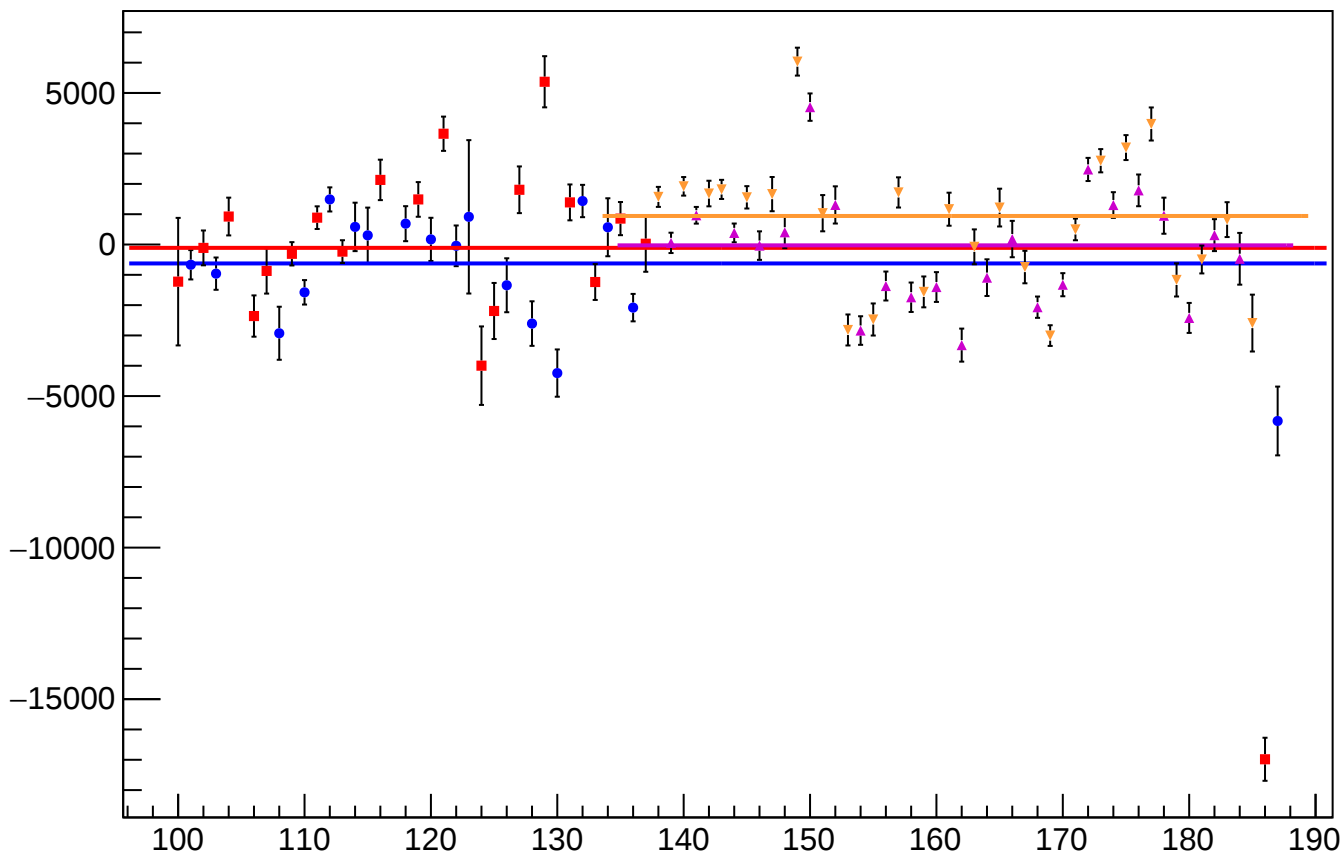
Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

+ sign 292.000 $\pm$ 0.042 χ^2 /NDF: 1309708.4/42

All: 291.079 $\pm$ 0.030 χ^2 /NDF: 2644989.1/85

- sign 290.151 $\pm$ 0.042 χ^2 /NDF: 1334314.0/42

asym_bpm0r05WS_mean vs Slug



Right In: -624.491 ± 146.338 χ^2/NDF : 129.2/17

Left Out: 941.598 ± 89.119 χ^2/NDF : 544.6/24

Right Out: -110.149 ± 133.347 χ^2/NDF : 725.9/19

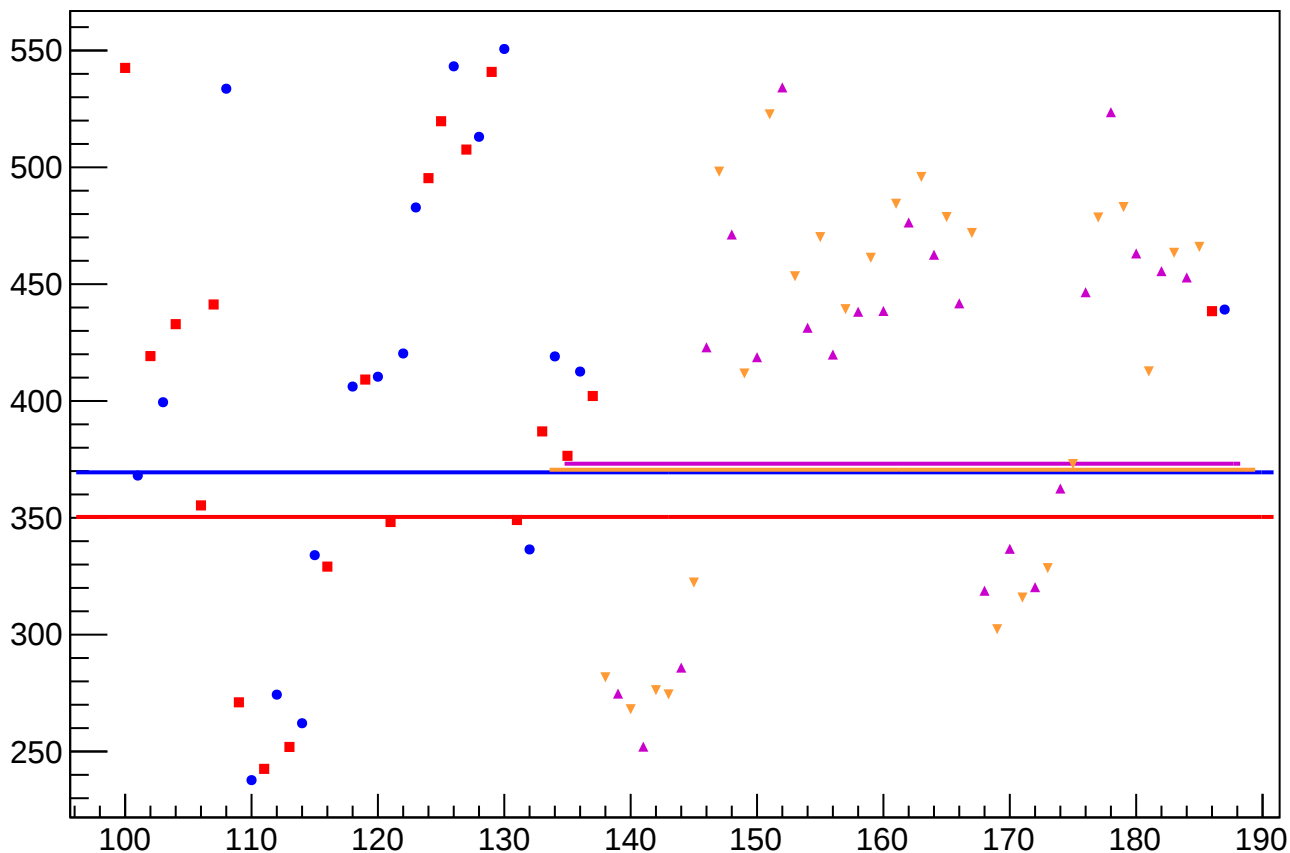
Left In: -27.763 ± 92.331 χ^2/NDF : 362.5/22

+ sign 517.913 ± 76.115 χ^2/NDF : 757.3/42

All: 230.953 ± 53.749 χ^2/NDF : 1874.4/85

- sign -54.461 ± 75.910 χ^2/NDF : 1088.7/42

asym_bpm0r05WS_rms vs Slug



Right In: 369.466 $\pm$ 0.103 χ^2 /NDF: 773086.0/17

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF: 1878118.9/24

Right Out: 350.376 $\pm$ 0.094 χ^2 /NDF: 848177.8/19

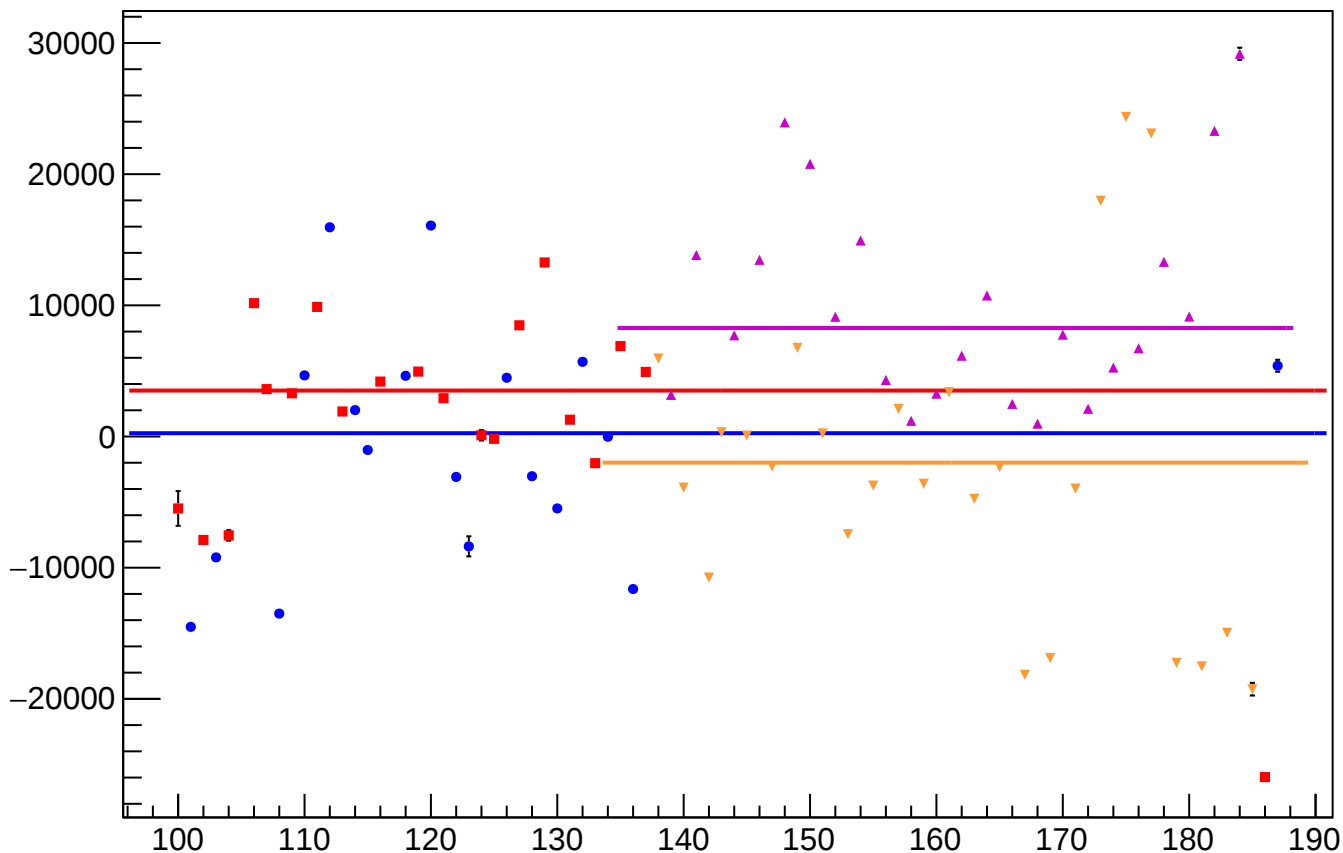
Left In: 373.161 $\pm$ 0.065 χ^2 /NDF: 1636244.2/22

+ sign 370.278 $\pm$ 0.054 χ^2 /NDF: 2651289.4/42

All: 368.022 $\pm$ 0.038 χ^2 /NDF: 5178686.1/85

- sign 365.777 $\pm$ 0.054 χ^2 /NDF: 2523889.9/42

asym_bpm0i02WS_mean vs Slug



Right In: 252.866 $\pm$ 54.505 χ^2 /NDF: 30790.4/17

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF: 63766.6/24

Right Out: 3503.372 $\pm$ 51.555 χ^2 /NDF: 18780.9/19

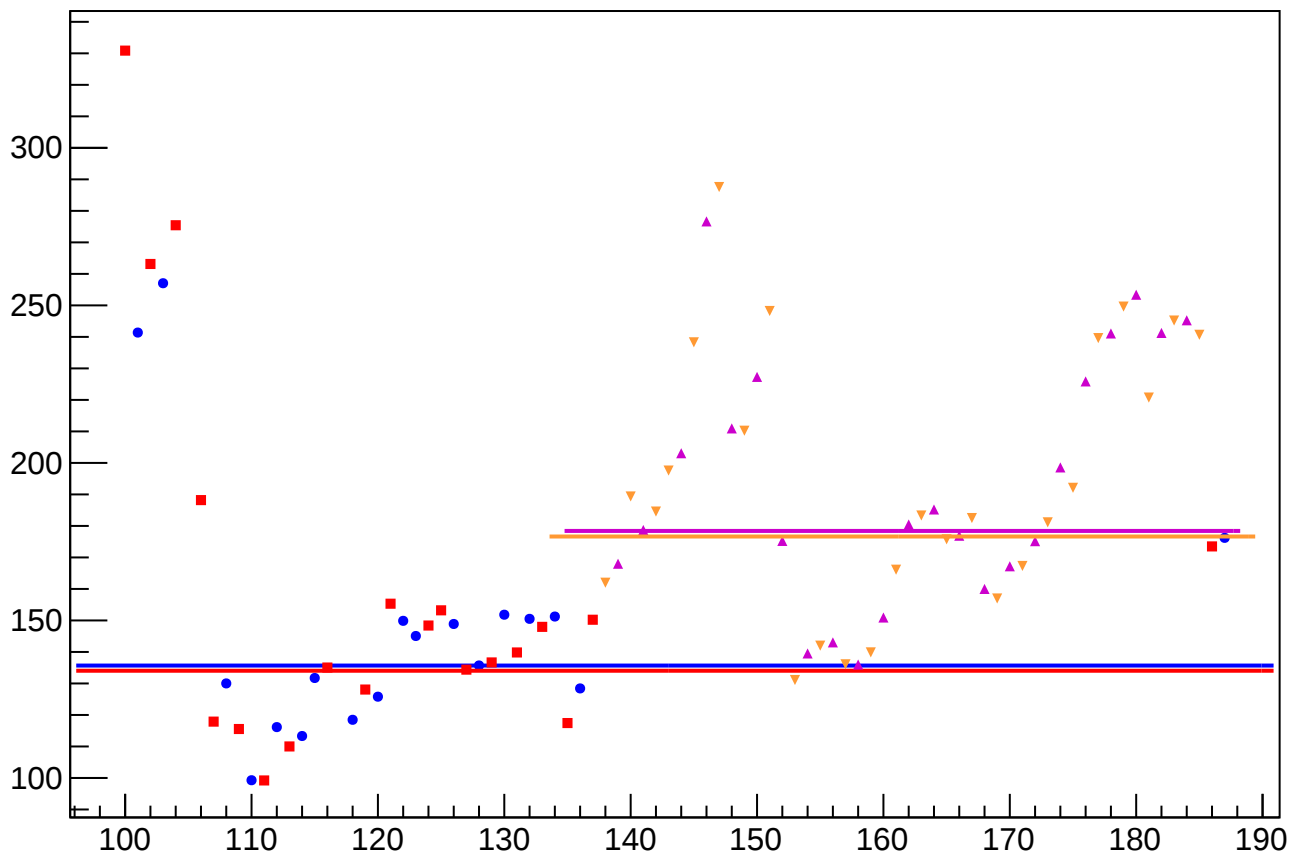
Left In: 8273.228 $\pm$ 44.301 χ^2 /NDF: 22870.2/22

+ sign -1144.885 $\pm$ 33.480 χ^2 /NDF: 95613.1/42

All: 2537.868 $\pm$ 23.716 χ^2 /NDF: 166475.5/85

- sign 6247.209 $\pm$ 33.600 χ^2 /NDF: 46575.0/42

asym_bpm0i02WS_rms vs Slug



Right In: 135.683 $\pm$ 0.039 χ^2 /NDF: 673595.0/17

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 134.038 $\pm$ 0.036 χ^2 /NDF: 868914.0/19

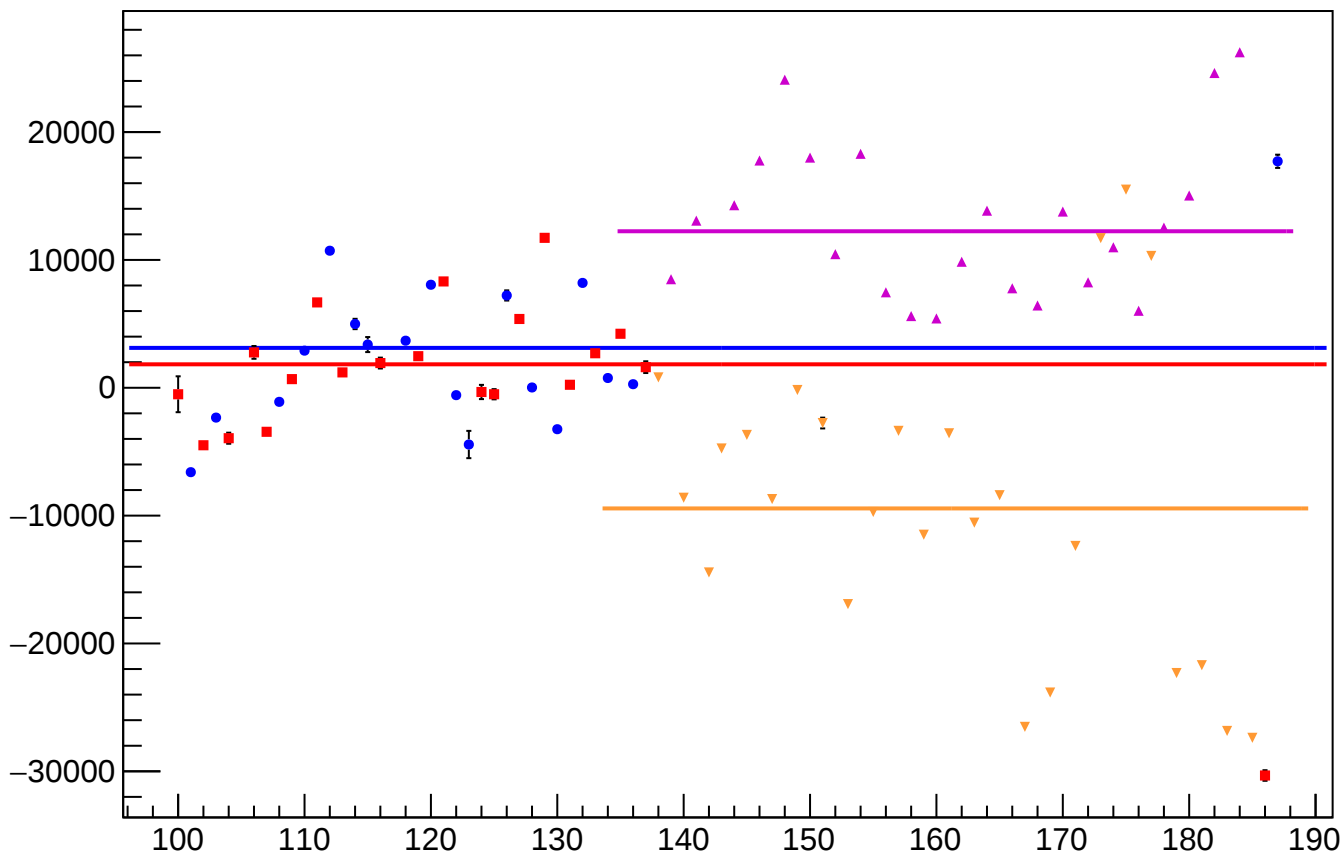
Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

+ sign 161.187 $\pm$ 0.024 χ^2 /NDF: 2927902.9/42

All: 160.379 $\pm$ 0.017 χ^2 /NDF: 5945257.8/85

- sign 159.565 $\pm$ 0.024 χ^2 /NDF: 3015014.0/42

asym_bpm0i02aWS_mean vs Slug



Right In: 3120.005+/-70.238 χ^2/NDF : 4970.3/17

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 1834.858+/-64.900 χ^2/NDF : 9352.3/19

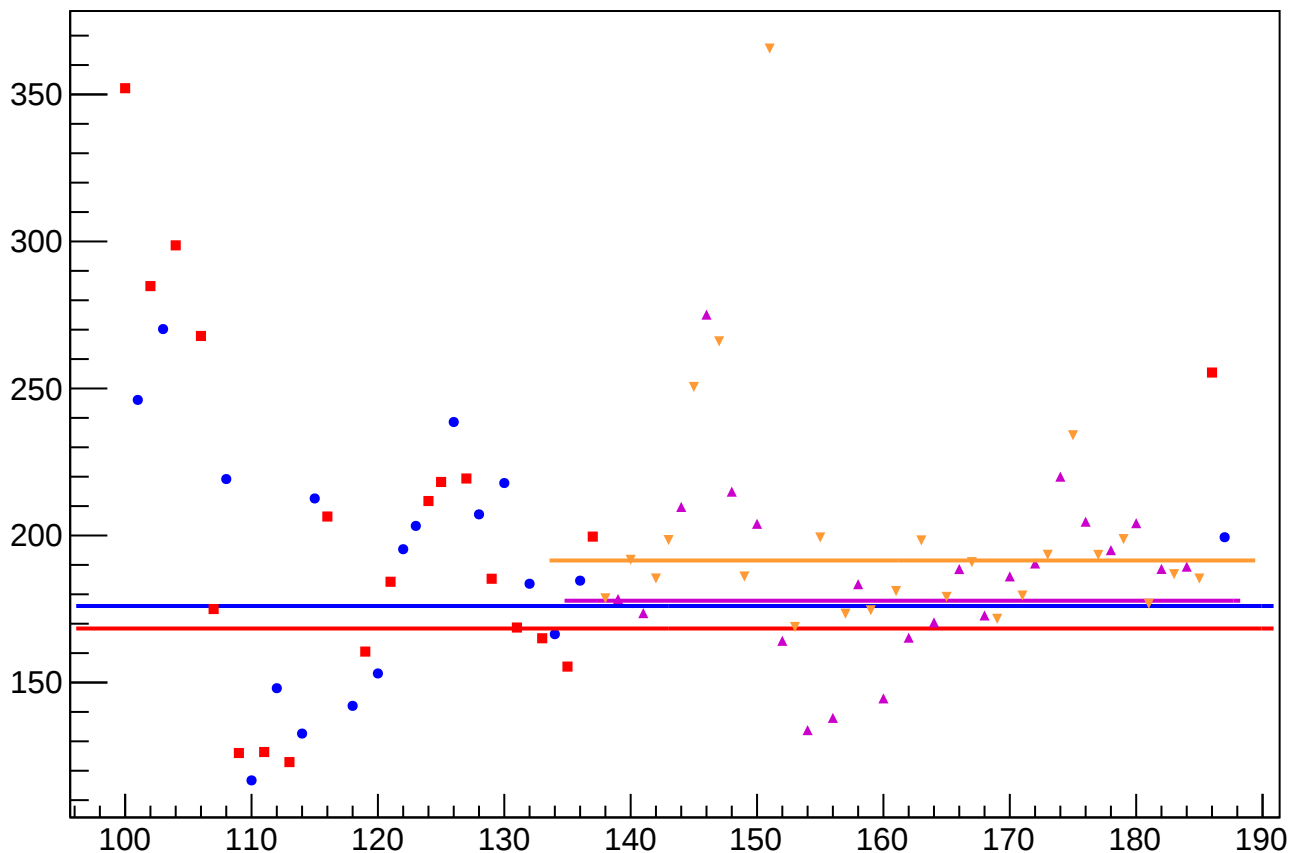
Left In: 12242.226+/-43.944 χ^2/NDF : 16615.8/22

+ sign -5721.536+/-38.208 χ^2/NDF : 89695.9/42

All: 1982.842+/-26.350 χ^2/NDF : 210834.2/85

- sign 8970.639+/-36.388 χ^2/NDF : 43599.7/42

asym_bpm0i02aWS_rms vs Slug



Right In: 176.021+/-0.050 χ^2/NDF : 692014.8/17

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 168.369+/-0.046 χ^2/NDF : 1016035.2/19

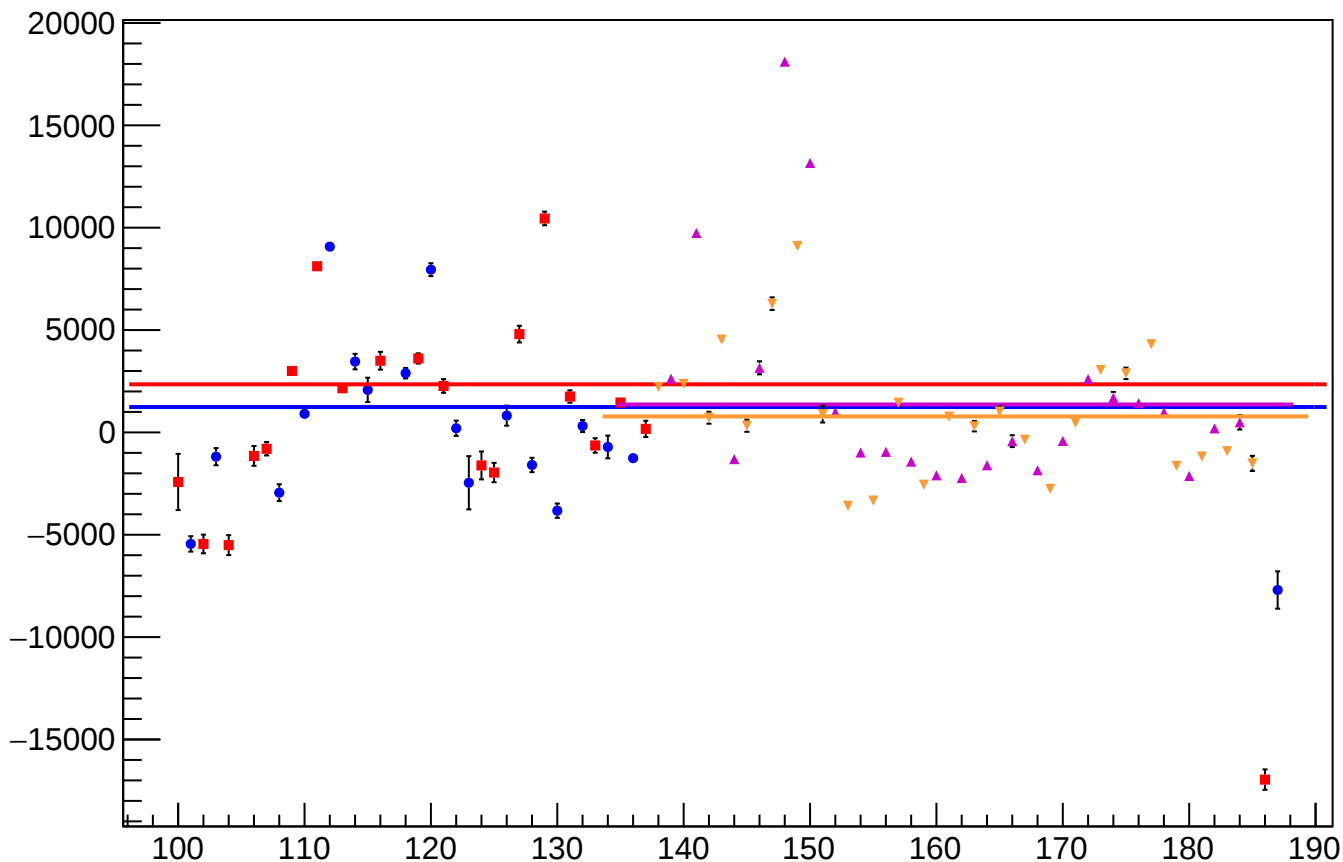
Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

+ sign 186.924+/-0.027 χ^2/NDF : 1487718.9/42

All: 180.593+/-0.019 χ^2/NDF : 3500075.0/85

- sign 174.850+/-0.026 χ^2/NDF : 1907619.4/42

asym_bpm0i05WS_mean vs Slug



Right In: 1238.656+/-77.046 χ^2/NDF : 2746.7/17

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: 2348.875+/-69.332 χ^2/NDF : 4025.5/19

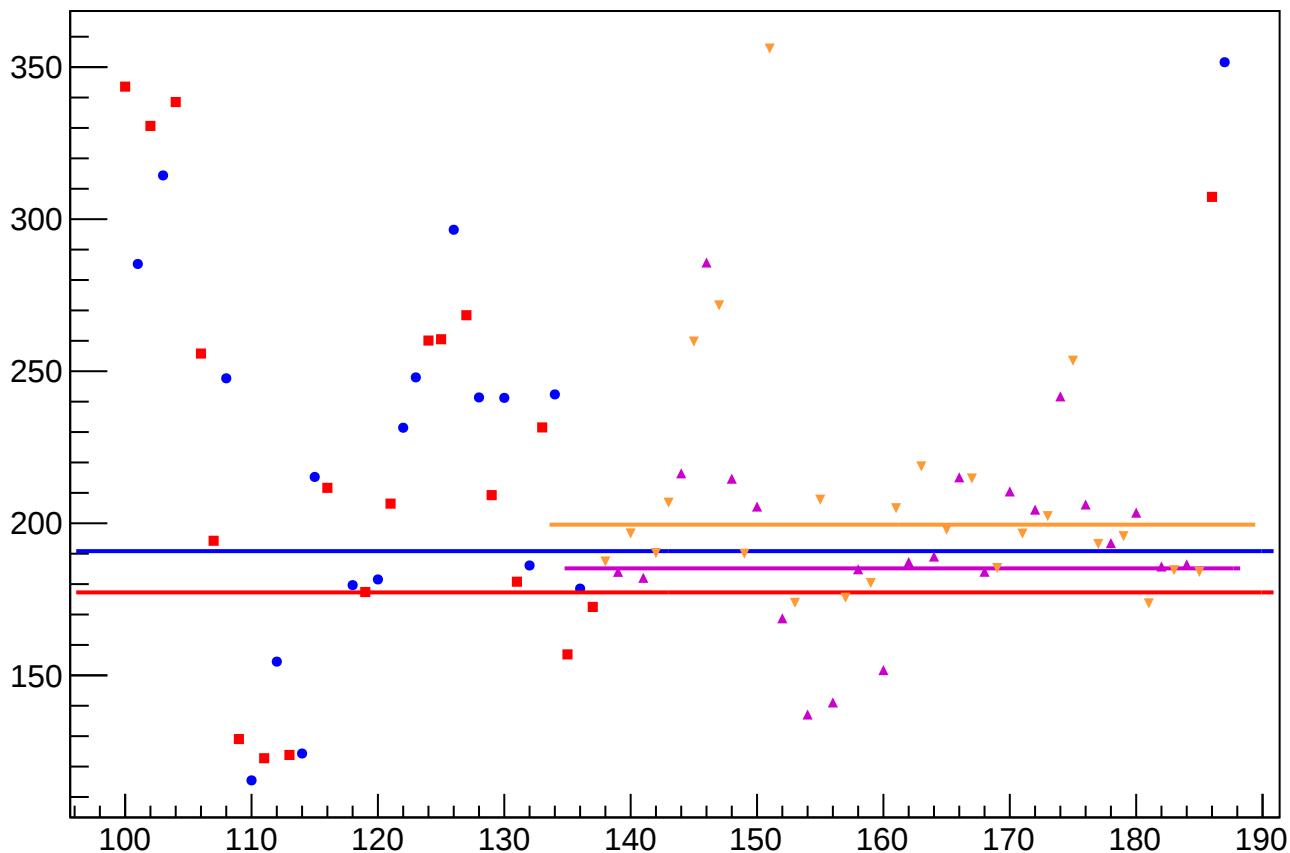
Left In: 1363.043+/-45.807 χ^2/NDF : 11632.9/22

+ sign 906.140+/-40.407 χ^2/NDF : 7033.1/42

All: 1305.413+/-27.766 χ^2/NDF : 23017.2/85

- sign 1662.605+/-38.219 χ^2/NDF : 15799.1/42

asym_bpm0i05WS_rms vs Slug



Right In: 190.844+/-0.054 χ^2/NDF : 1039853.4/17

Left Out: 199.547+/-0.034 χ^2/NDF : 729356.3/24

Right Out: 177.270+/-0.049 χ^2/NDF : 1429809.6/19

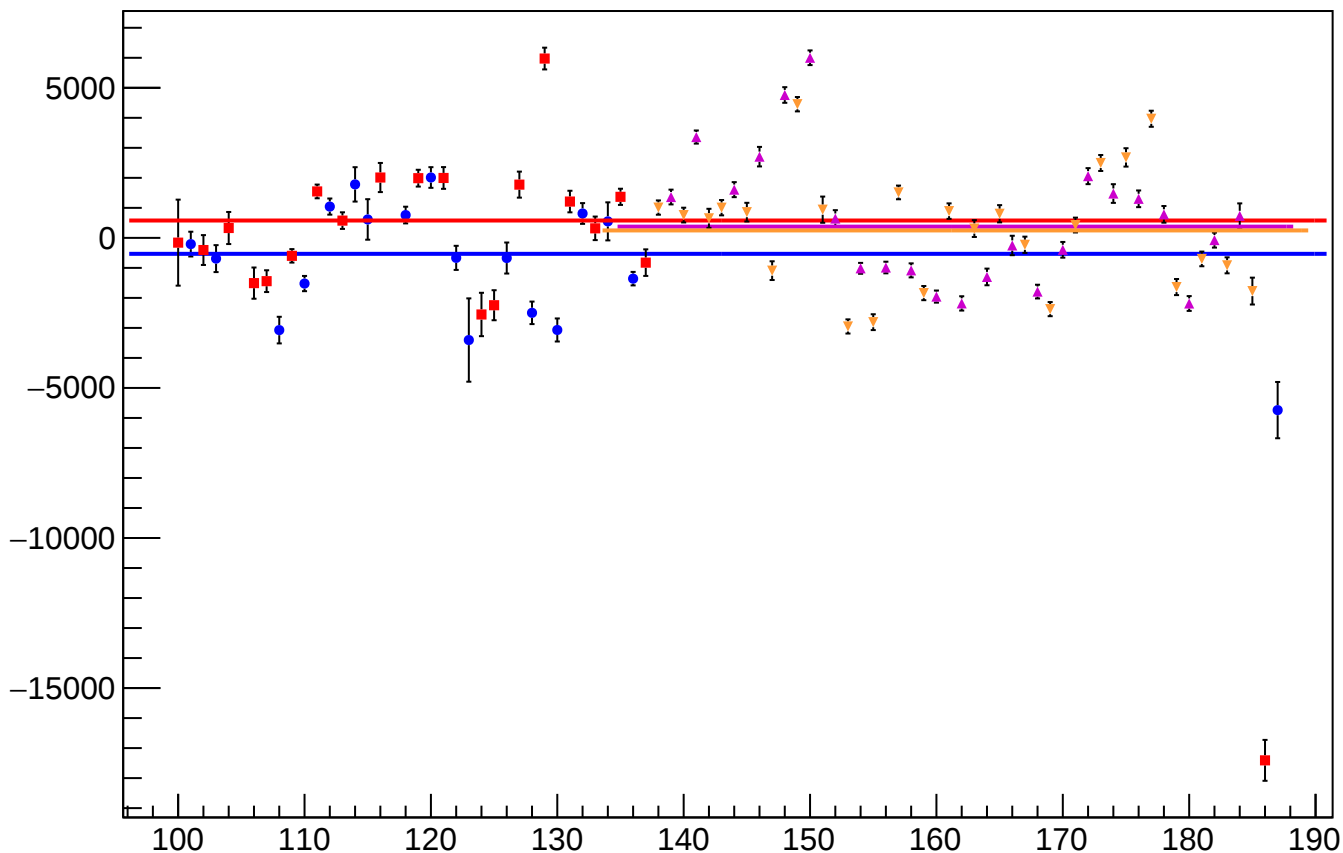
Left In: 185.171+/-0.032 χ^2/NDF : 882752.2/22

+ sign 197.153+/-0.029 χ^2/NDF : 1787710.4/42

All: 189.561+/-0.020 χ^2/NDF : 4252106.9/85

- sign 182.770+/-0.027 χ^2/NDF : 2330642.1/42

asym_bpm0i07WS_mean vs Slug



Right In: -531.718+/-88.393 χ^2/NDF : 316.4/17

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 578.583+/-81.640 χ^2/NDF : 1145.3/19

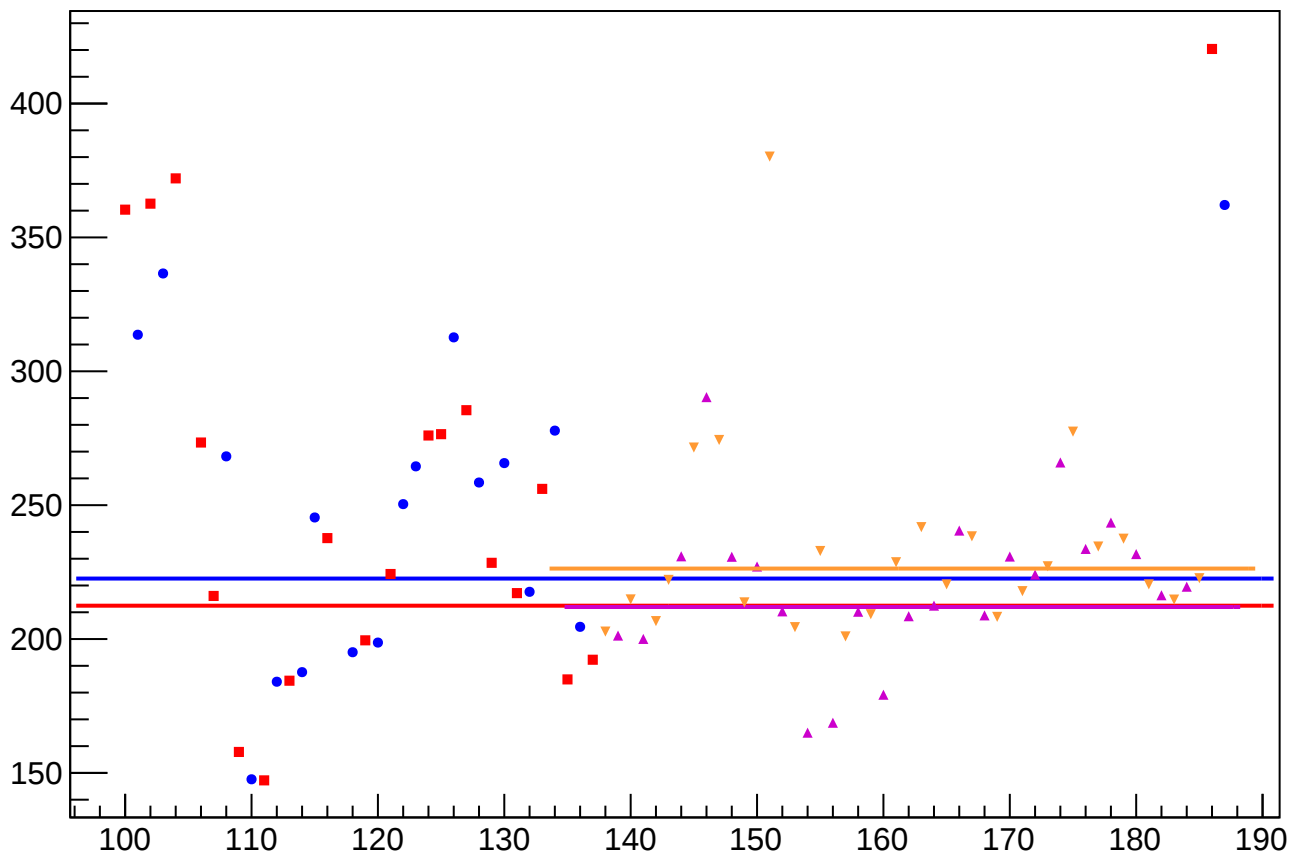
Left In: 374.122+/-52.049 χ^2/NDF :1801.0/22

+ sign 38.520+/-45.804 χ^2/NDF : 1728.4/42

All: 244.291+/-31.689 χ^2/NDF : 4717.9/85

- sign 433.210+/-43.888 χ^2/NDF : 2950.8/42

asym_bpm0i07WS_rms vs Slug



Right In: 222.590 ± 0.063 χ^2/NDF : 690184.4/17

Left Out: 226.322 ± 0.038 χ^2/NDF : 521041.8/24

Right Out: 212.457 ± 0.058 χ^2/NDF : 1068273.5/19

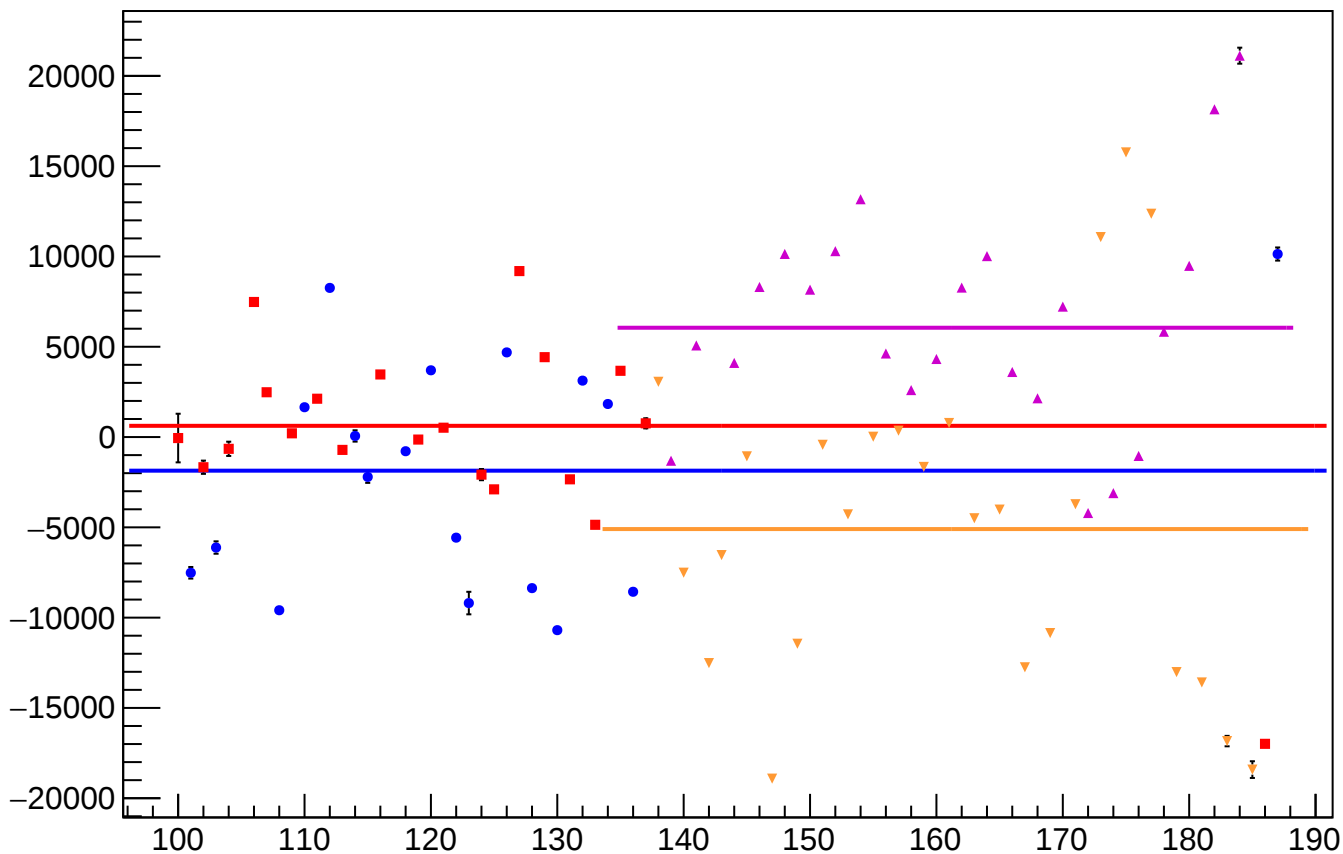
Left In: 211.970 ± 0.037 χ^2/NDF : 584344.5/22

+ sign 225.320 ± 0.032 χ^2/NDF : 1213834.0/42

All: 218.433 ± 0.022 χ^2/NDF : 2953216.1/85

- sign 212.111 ± 0.031 χ^2/NDF : 1652668.5/42

asym_bpm1i02WS_mean vs Slug



Right In: -1861.595 ± 47.009 $\chi^2/\text{NDF}: 17642.7/17$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 622.036 ± 44.140 $\chi^2/\text{NDF}: 12024.8/19$

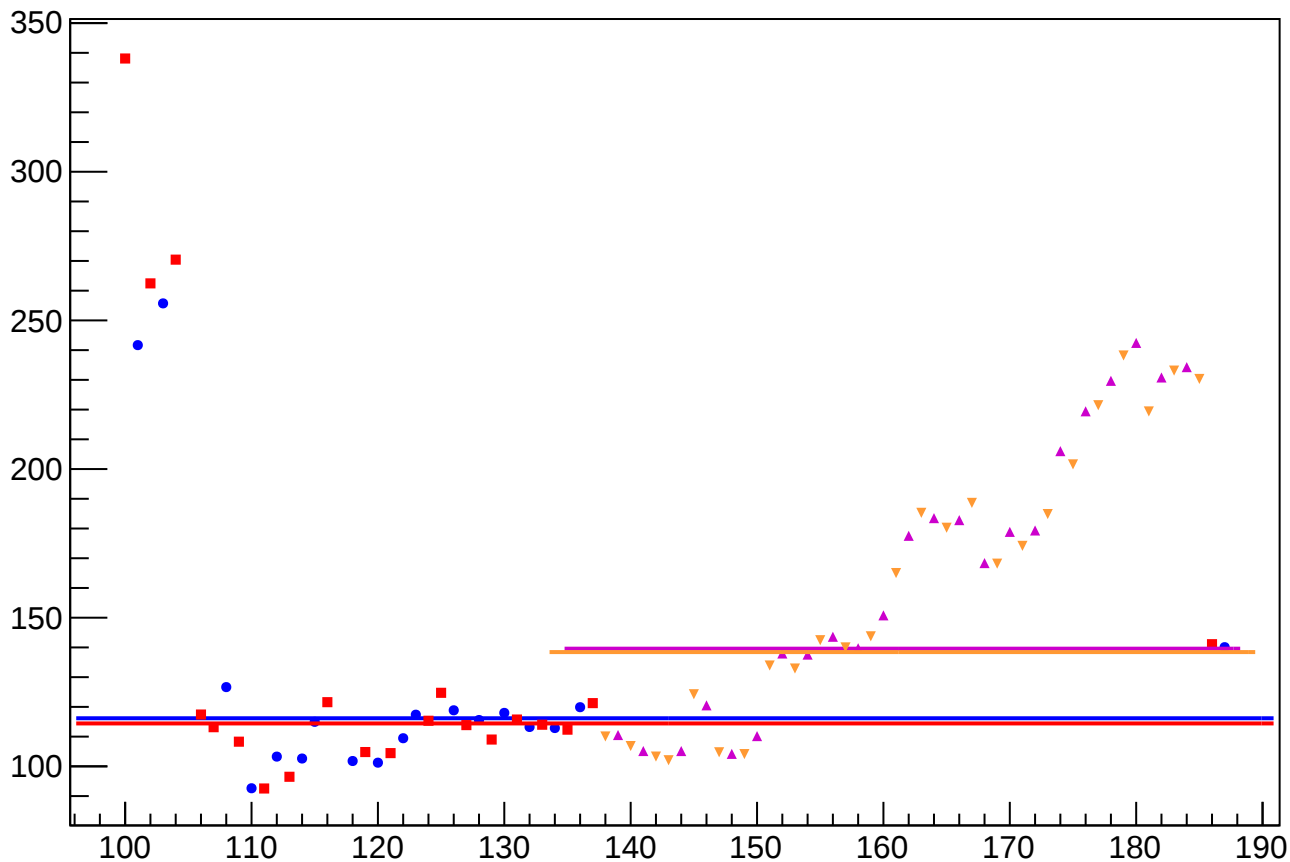
Left In: 6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

+ sign -3997.427 ± 27.391 $\chi^2/\text{NDF}: 75163.5/42$

All: -24.983 ± 19.380 $\chi^2/\text{NDF}: 156192.1/85$

- sign 3957.004 ± 27.424 $\chi^2/\text{NDF}: 38912.1/42$

asym_bpm1i02WS_rms vs Slug



Right In: 116.174 $\pm$ 0.033 χ^2 /NDF: 752454.3/17

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 114.434 $\pm$ 0.031 χ^2 /NDF: 823324.5/19

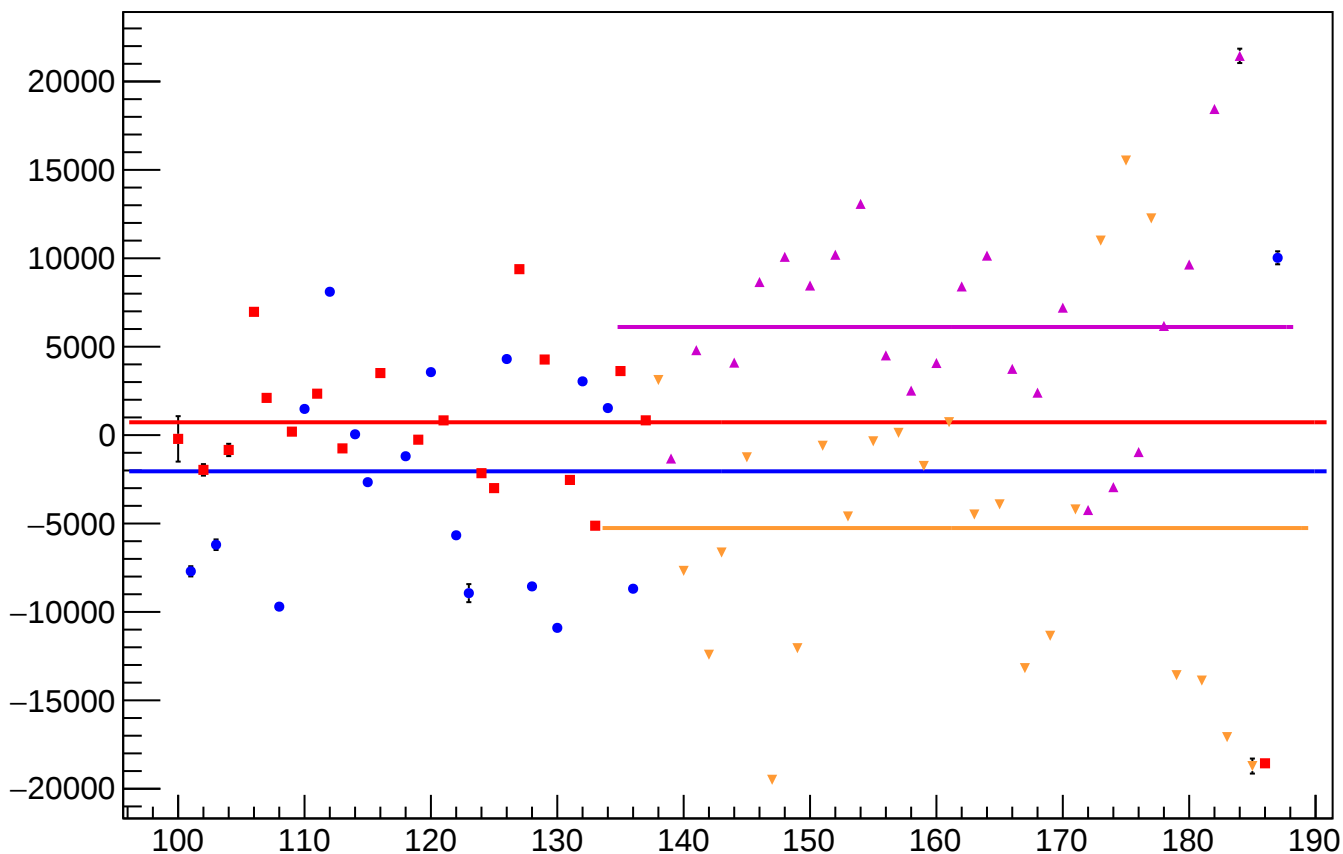
Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

+ sign 130.878 $\pm$ 0.019 χ^2 /NDF: 3598127.7/42

All: 130.376 $\pm$ 0.014 χ^2 /NDF: 7234911.1/85

- sign 129.872 $\pm$ 0.019 χ^2 /NDF: 3635438.0/42

asym_bpm1i04WS_mean vs Slug



Right In: -2047.463 ± 39.774 $\chi^2/\text{NDF}: 23900.8/17$

Left Out: -5255.652 ± 30.622 $\chi^2/\text{NDF}: 64324.6/24$

Right Out: 726.093 ± 37.520 $\chi^2/\text{NDF}: 15790.3/19$

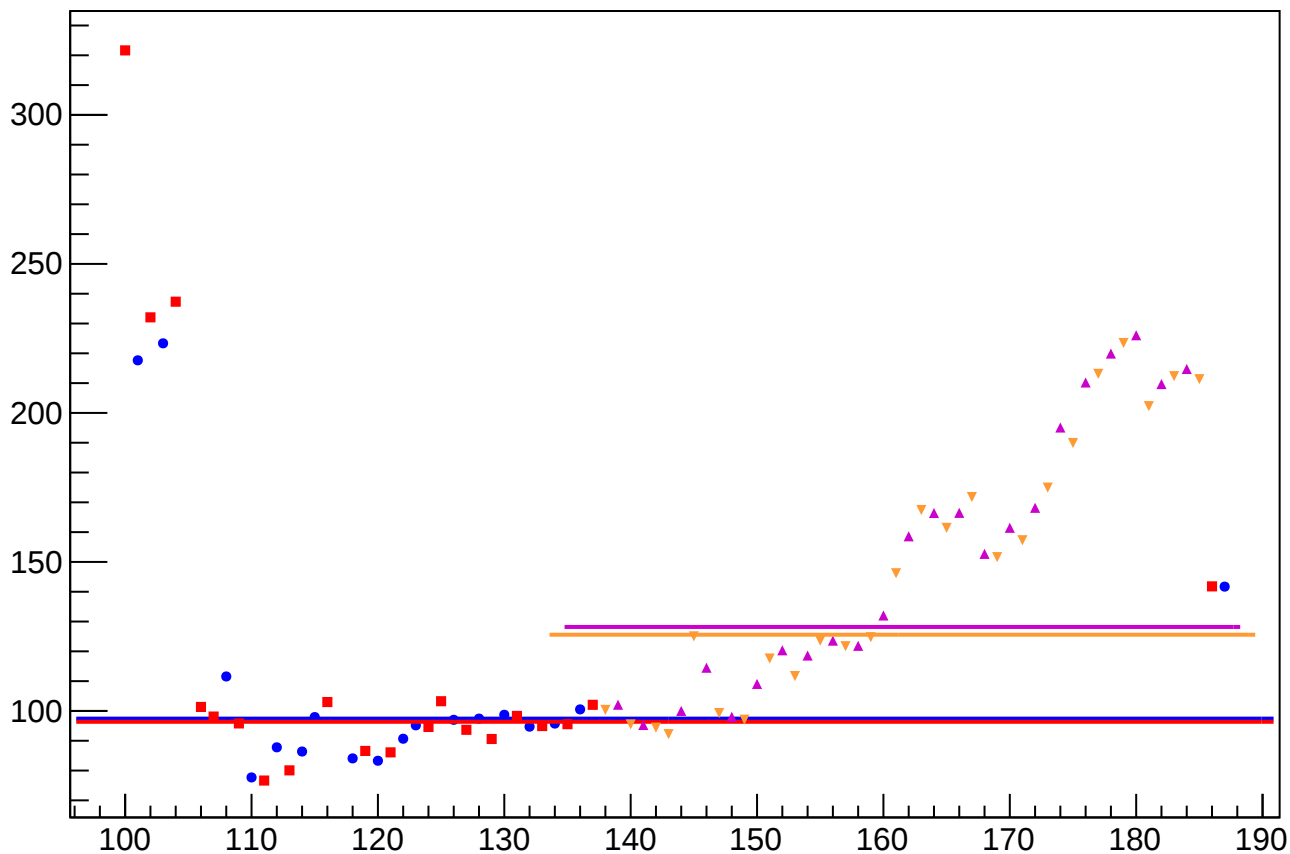
Left In: 6114.901 ± 32.126 $\chi^2/\text{NDF}: 21260.9/22$

+ sign -4061.708 ± 24.264 $\chi^2/\text{NDF}: 92310.3/42$

All: -135.685 ± 17.206 $\chi^2/\text{NDF}: 193926.3/85$

- sign 3835.417 ± 24.403 $\chi^2/\text{NDF}: 48953.3/42$

asym_bpm1i04WS_rms vs Slug



Right In: 97.422 $\pm$ 0.028 χ^2 /NDF: 846590.3/17

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF: 2595752.6/24

Right Out: 96.369 $\pm$ 0.027 χ^2 /NDF: 938449.8/19

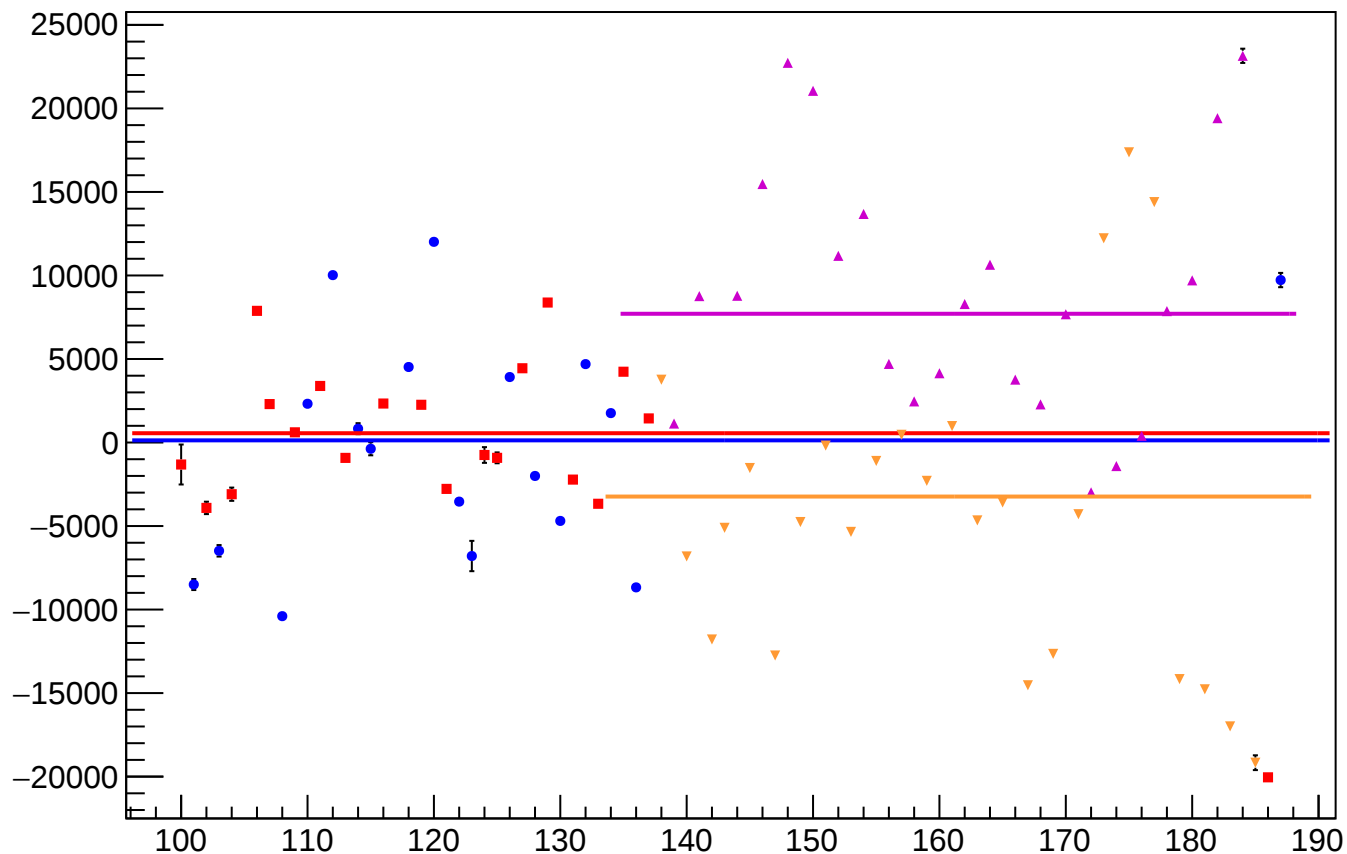
Left In: 128.184 $\pm$ 0.023 χ^2 /NDF: 2332977.5/22

+ sign 115.099 $\pm$ 0.017 χ^2 /NDF: 4071562.1/42

All: 114.914 $\pm$ 0.012 χ^2 /NDF: 8172930.5/85

- sign 114.726 $\pm$ 0.017 χ^2 /NDF: 4101133.2/42

asym_bpm1i06WS_mean vs Slug



Right In: 129.304 $\pm$ 54.290 χ^2 /NDF: 16875.0/17

Left Out: -3234.922 $\pm$ 40.583 χ^2 /NDF:36739.9/24

Right Out: 556.669 $\pm$ 51.372 χ^2 /NDF: 9985.5/19

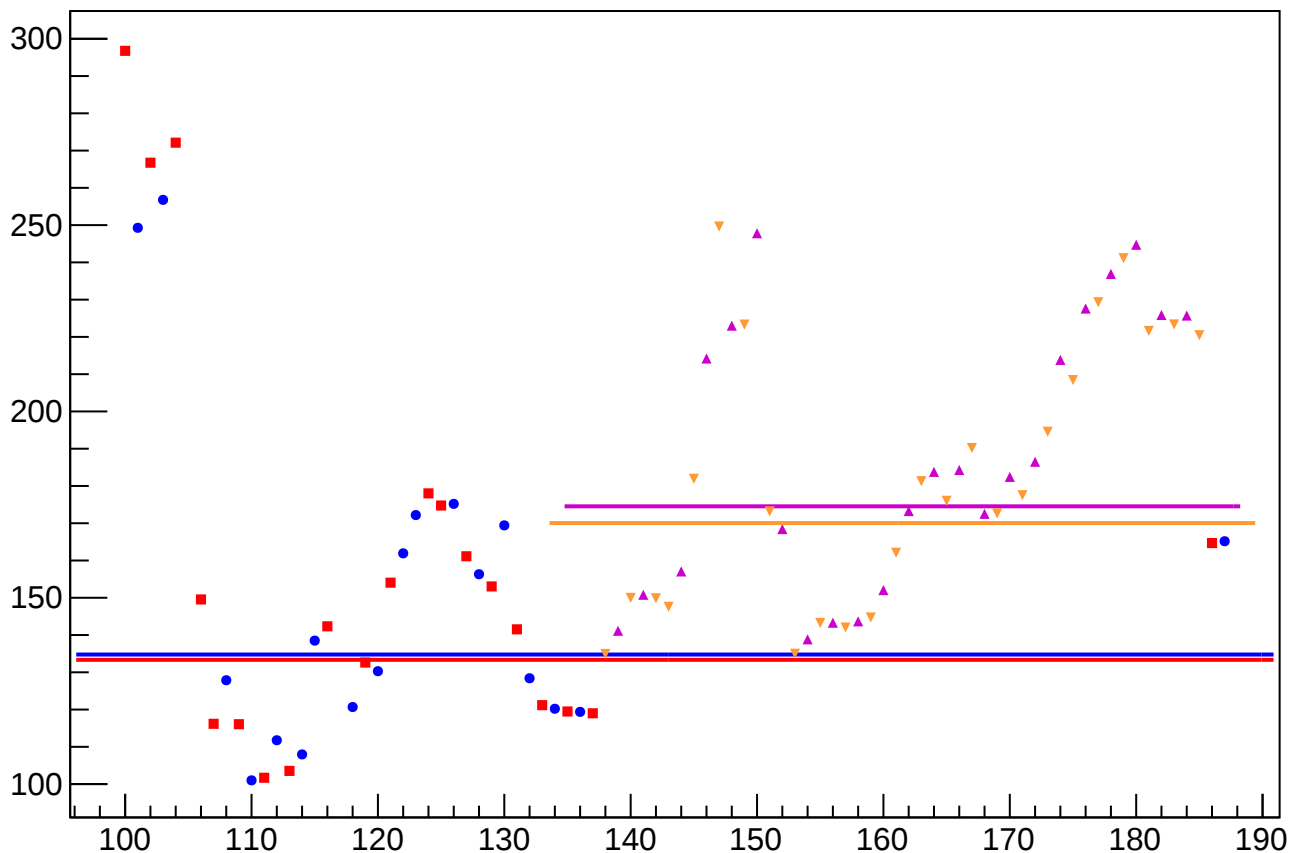
Left In: 7707.068 $\pm$ 42.990 χ^2 /NDF:21268.3/22

+ sign -2028.951 $\pm$ 32.505 χ^2 /NDF: 56078.3/42

All: 1318.432 $\pm$ 23.147 χ^2 /NDF: 120241.3/85

- sign 4762.049 $\pm$ 32.969 χ^2 /NDF: 42648.1/42

asym_bpm1i06WS_rms vs Slug



Right In: 134.767 $\pm$ 0.038 χ^2 /NDF: 797344.7/17

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 133.351 $\pm$ 0.036 χ^2 /NDF: 893413.5/19

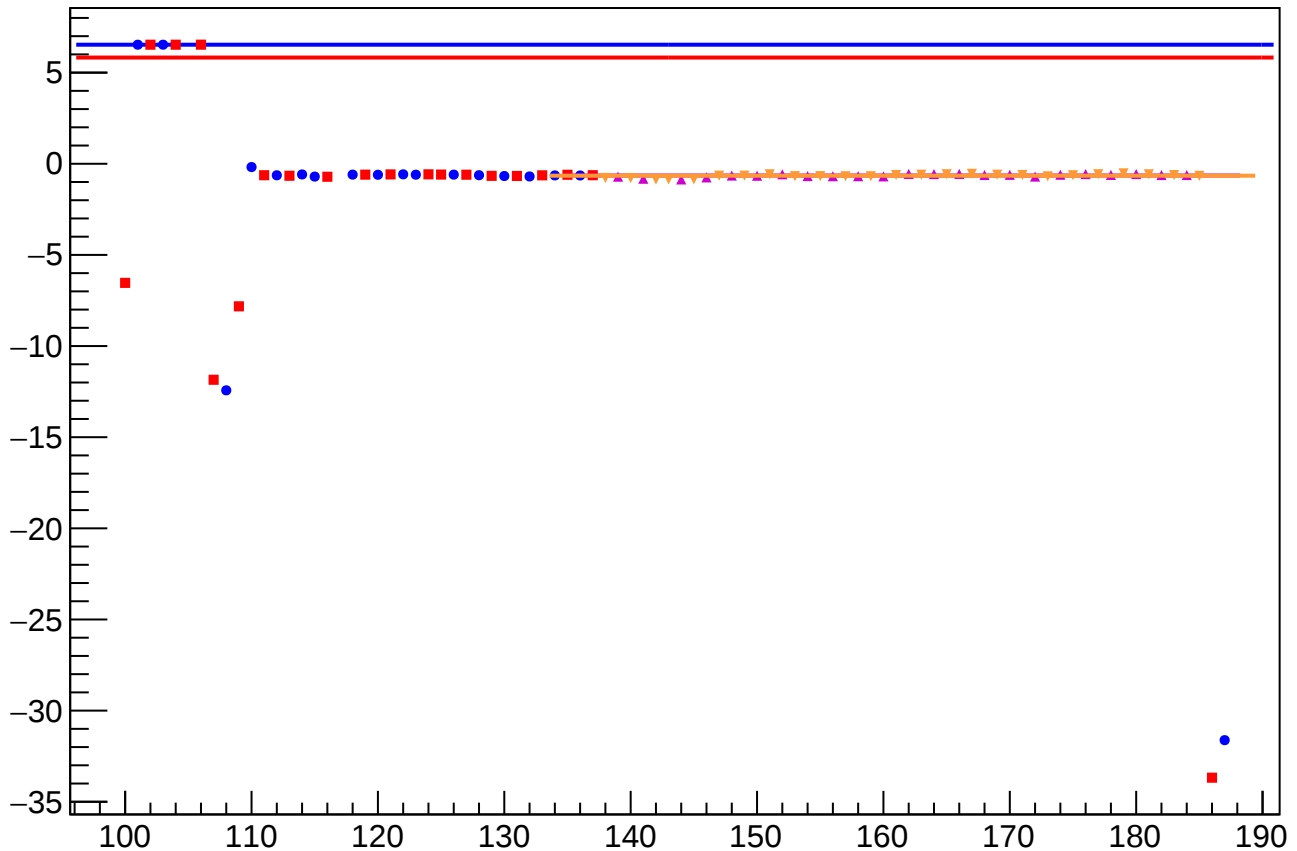
Left In: 174.539 $\pm$ 0.030 χ^2 /NDF:1210071.2/22

+ sign 157.402 $\pm$ 0.023 χ^2 /NDF: 2580118.2/42

All: 157.487 $\pm$ 0.016 χ^2 /NDF: 5439785.1/85

- sign 157.575 $\pm$ 0.023 χ^2 /NDF: 2859639.0/42

yield_cav4bX_mean vs Slug



Right In: 6.532 ± 0.000 χ^2/NDF : 127579339044.5/17

Left Out: -0.654 ± 0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827 ± 0.000 χ^2/NDF : 755947372602930.4/19

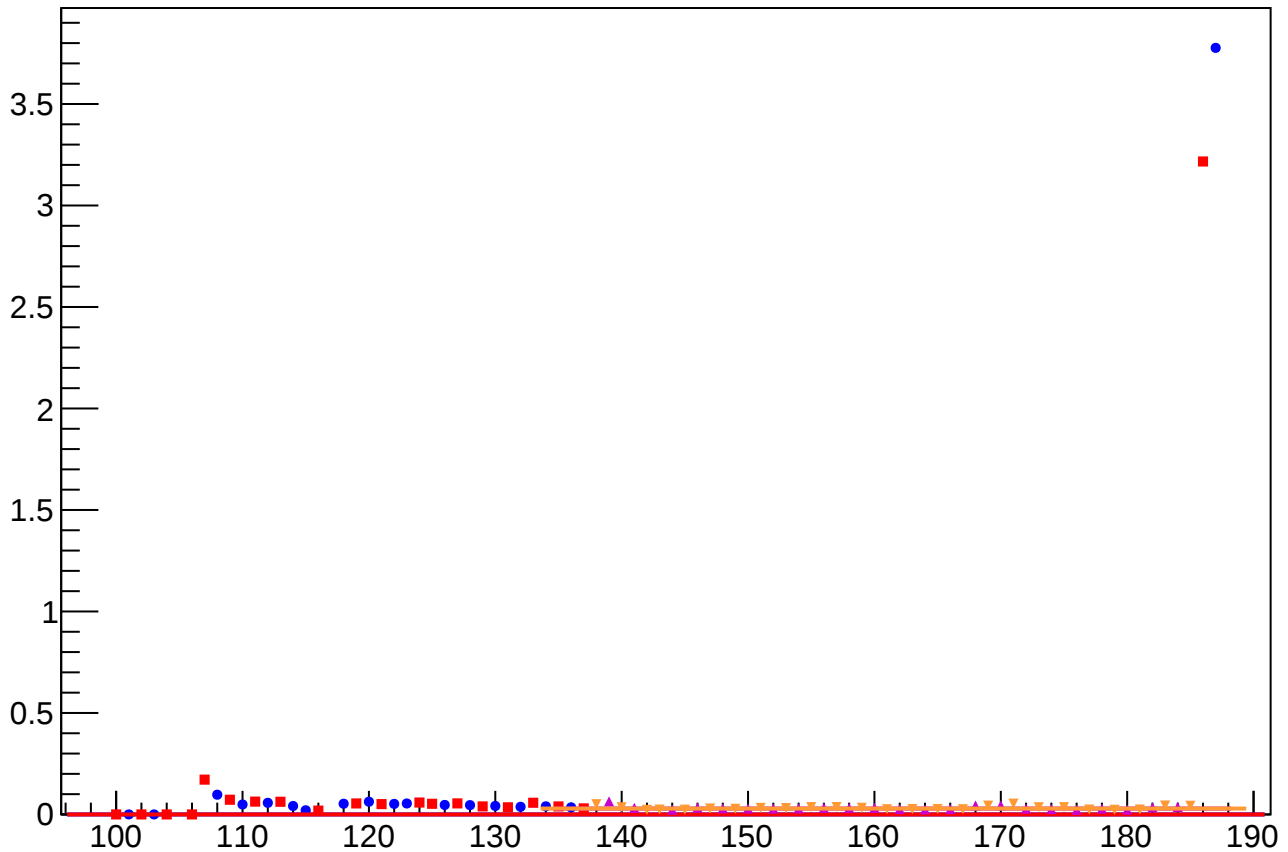
Left In: -0.644 ± 0.000 χ^2/NDF : 122913584.0/22

+ sign 6.530 ± 0.000 χ^2/NDF : 998968645625.4/42

All: 6.153 ± 0.000 χ^2/NDF : 77760148974513

- sign 5.826 ± 0.000 χ^2/NDF : 756618717230631.0/19

yield_cav4bX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 9286750.8/17

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10059889.5/19

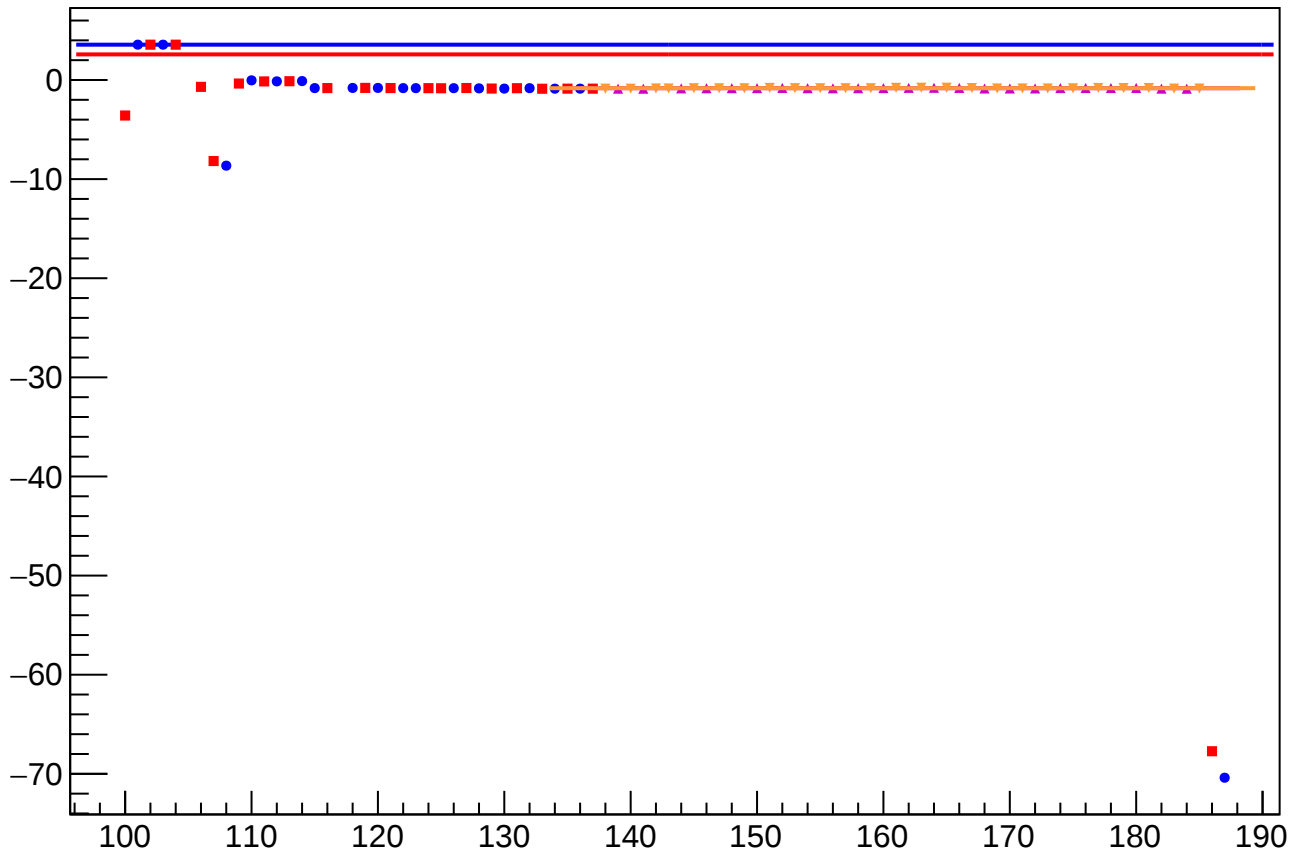
Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 39158169.2/42

All: 0.000+/-0.000 χ^2/NDF : 77184460.8/85

- sign 0.000+/-0.000 χ^2/NDF : 38025607.2/42

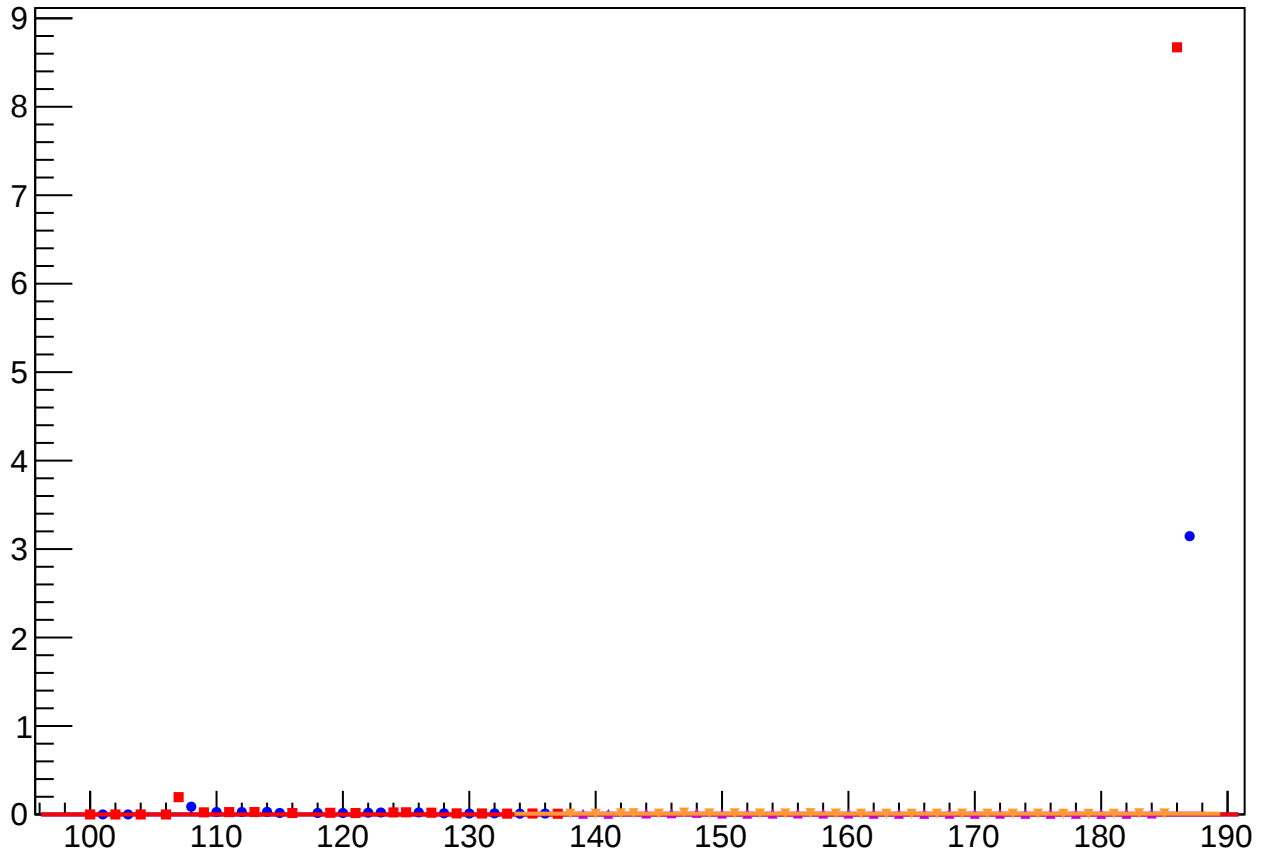
yield_cav4bY_mean vs Slug



Right In: 3.563 ± 0.000 $\chi^2/\text{NDF}: 485100131180.3/17$
 Left Out: -0.828 ± 0.000 $\chi^2/\text{NDF}: 168178464.8/24$
 Right Out: 2.583 ± 0.000 $\chi^2/\text{NDF}: 1253504647368430.8/19$
 Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 172640246.1/22$

+ sign 3.560 ± 0.000 $\chi^2/\text{NDF}: 4167257545333.3/42$
 All: 3.038 ± 0.000 $\chi^2/\text{NDF}: 13879474103177$
 - sign 2.581 ± 0.000 $\chi^2/\text{NDF}: 1255704700847041.0$

yield_cav4bY_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 10105701.3/17

Left Out: 0.009+/-0.000 χ^2/NDF : 1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10558075.3/19

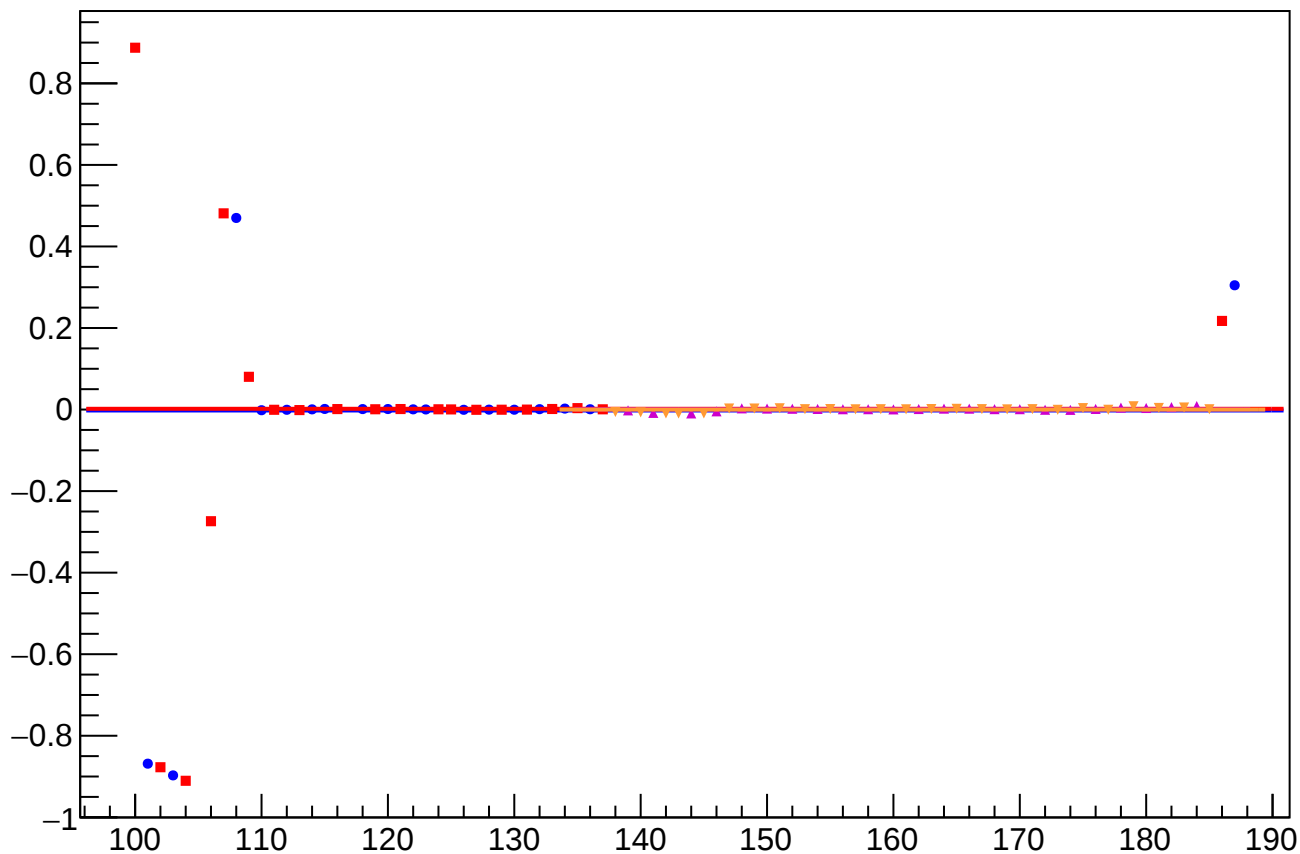
Left In: 0.009+/-0.000 χ^2/NDF : 1041524.9/22

+ sign 0.000+/-0.000 χ^2/NDF : 41514589.4/42

All: 0.000+/-0.000 χ^2/NDF : 81619399.8/85

- sign 0.000+/-0.000 χ^2/NDF : 40103686.3/42

yield_cav4cX_mean vs Slug



Right In: -0.002+/-0.000 χ^2/NDF : 9795464847.3/17

Left Out: -0.000+/-0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3041344078.2/19

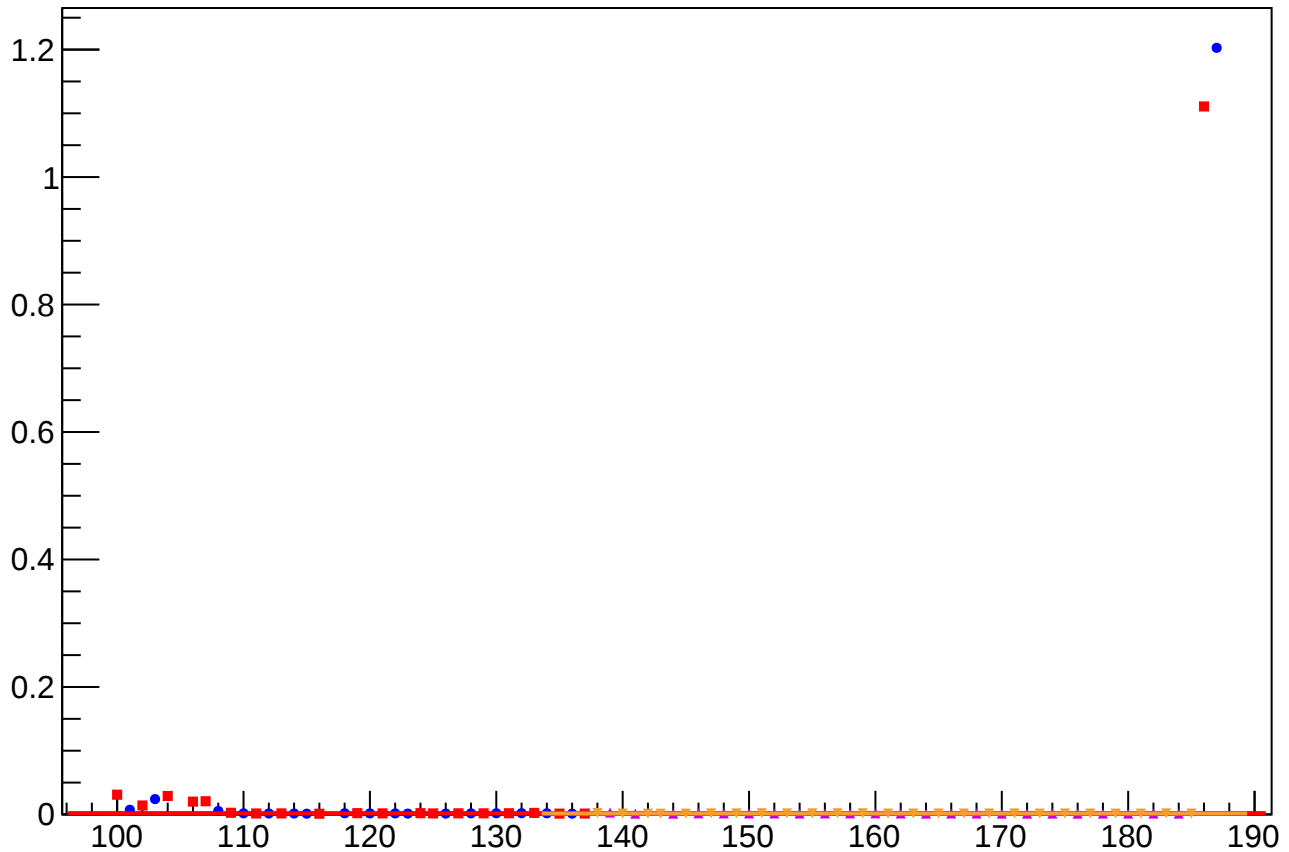
Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

+ sign -0.001+/-0.000 χ^2/NDF : 9953486548.7/42

All: 0.000+/-0.000 χ^2/NDF : 13105814503.6/8

- sign 0.001+/-0.000 χ^2/NDF : 3144747344.5/42

yield_cav4cX_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 2205026.7/17

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3727951.7/19

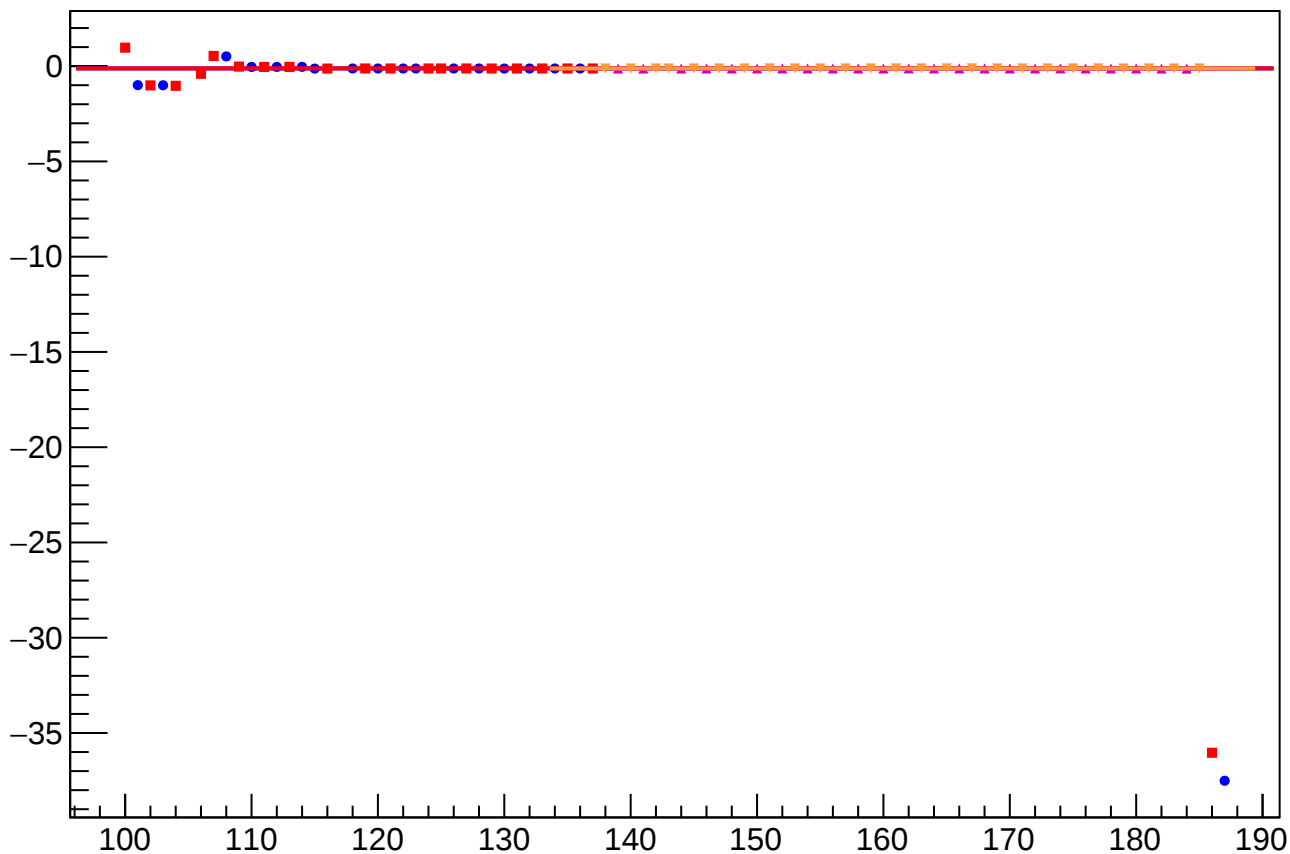
Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

+ sign 0.002+/-0.000 χ^2/NDF : 2815091.8/42

All: 0.002+/-0.000 χ^2/NDF : 7285387.2/85

- sign 0.002+/-0.000 χ^2/NDF : 4461390.7/42

yield_cav4cY_mean vs Slug



Right In: -0.120 ± 0.000 $\chi^2/\text{NDF}: 4099200069.0/17$

Left Out: -0.121 ± 0.000 $\chi^2/\text{NDF}: 58120109.3/24$

Right Out: -0.115 ± 0.000 $\chi^2/\text{NDF}: 2498567355.5/19$

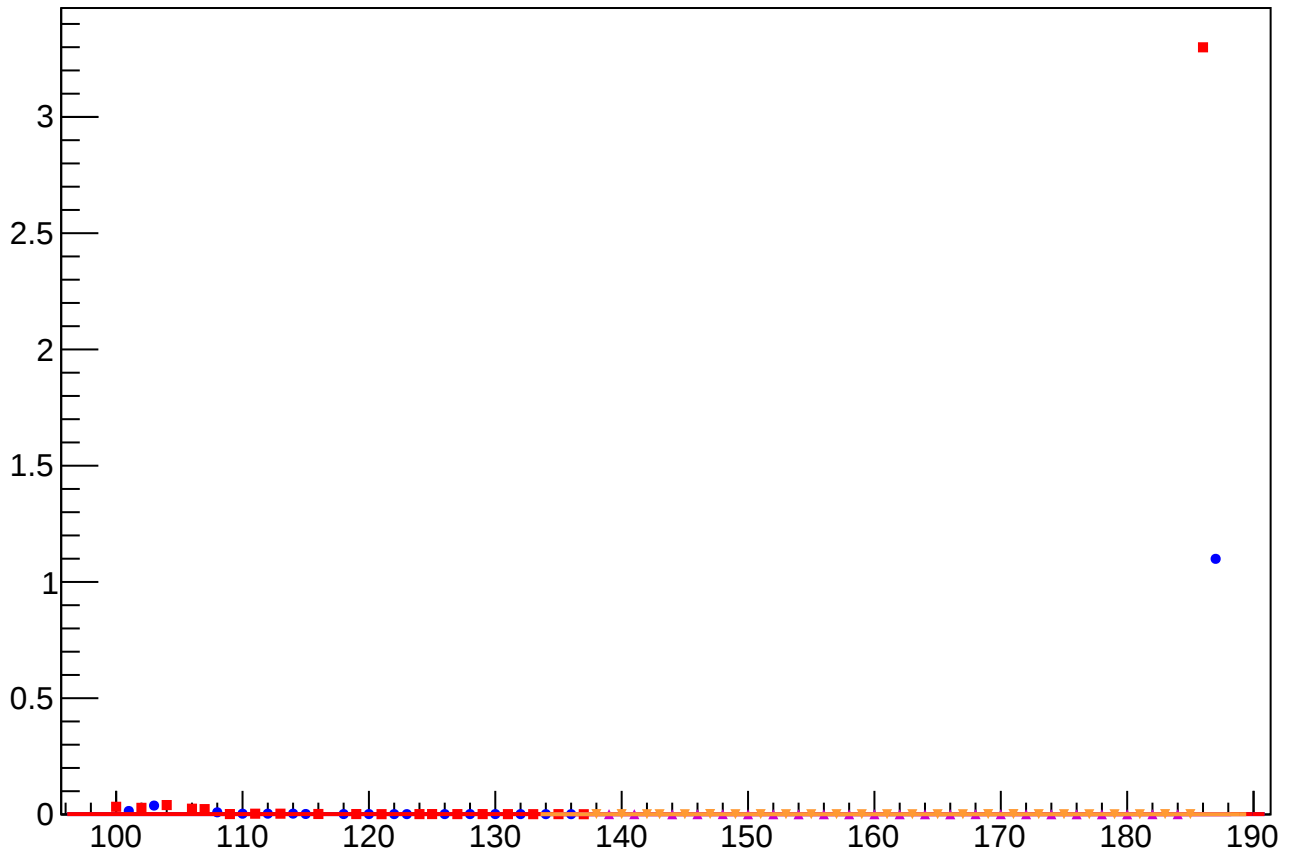
Left In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 52113932.9/22$

+ sign -0.121 ± 0.000 $\chi^2/\text{NDF}: 4158265574.2/42$

All: -0.121 ± 0.000 $\chi^2/\text{NDF}: 6764738832.2/8$

- sign -0.120 ± 0.000 $\chi^2/\text{NDF}: 2602289892.0/42$

yield_cav4cY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 3185245.8/17

Left Out: 0.001+/-0.000 χ^2/NDF : 1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4245931.0/19

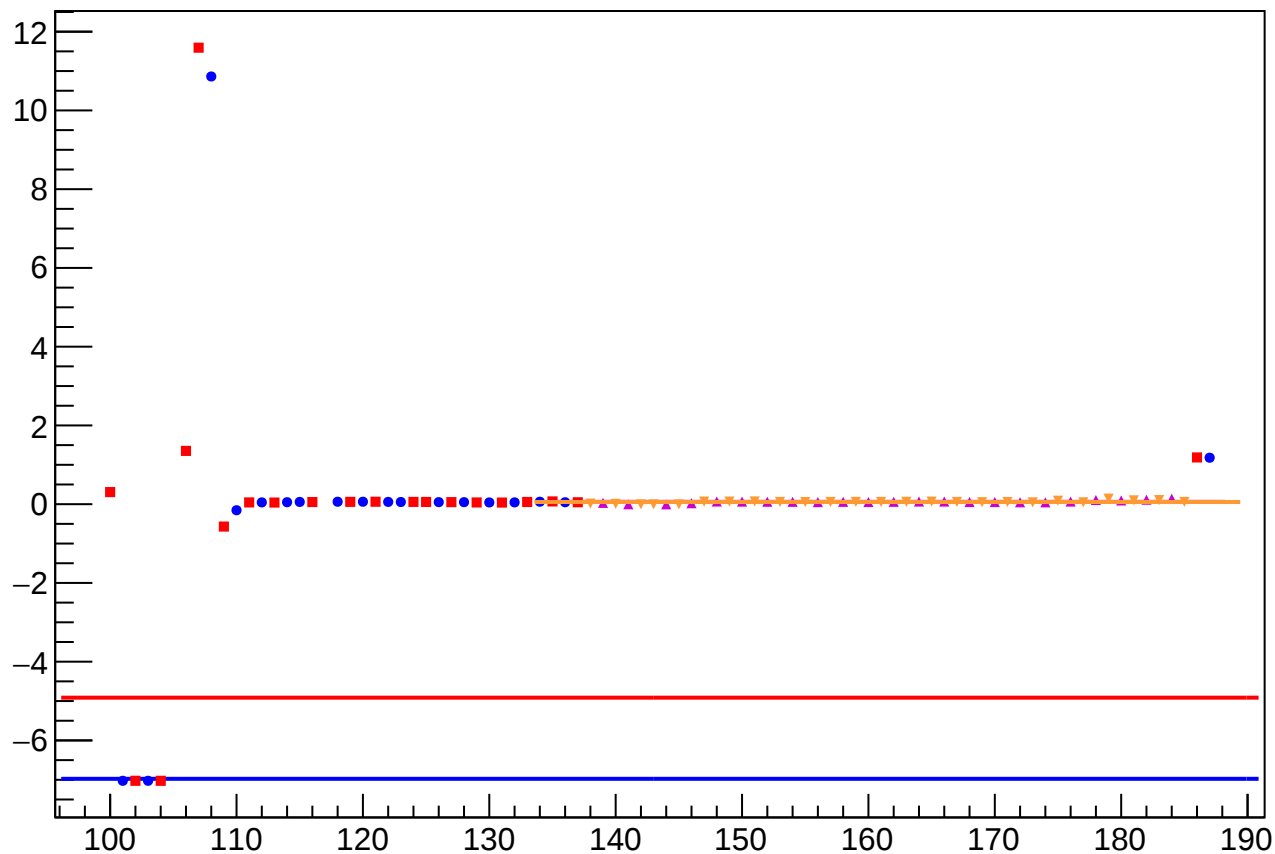
Left In: 0.001+/-0.000 χ^2/NDF : 970801.8/22

+ sign 0.001+/-0.000 χ^2/NDF : 5727927.9/42

All: 0.001+/-0.000 χ^2/NDF : 12051481.3/85

- sign 0.001+/-0.000 χ^2/NDF : 6321759.0/42

yield_cav4dX_mean vs Slug



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797366557186.8/17$

Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$

Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352669559982.0/19$

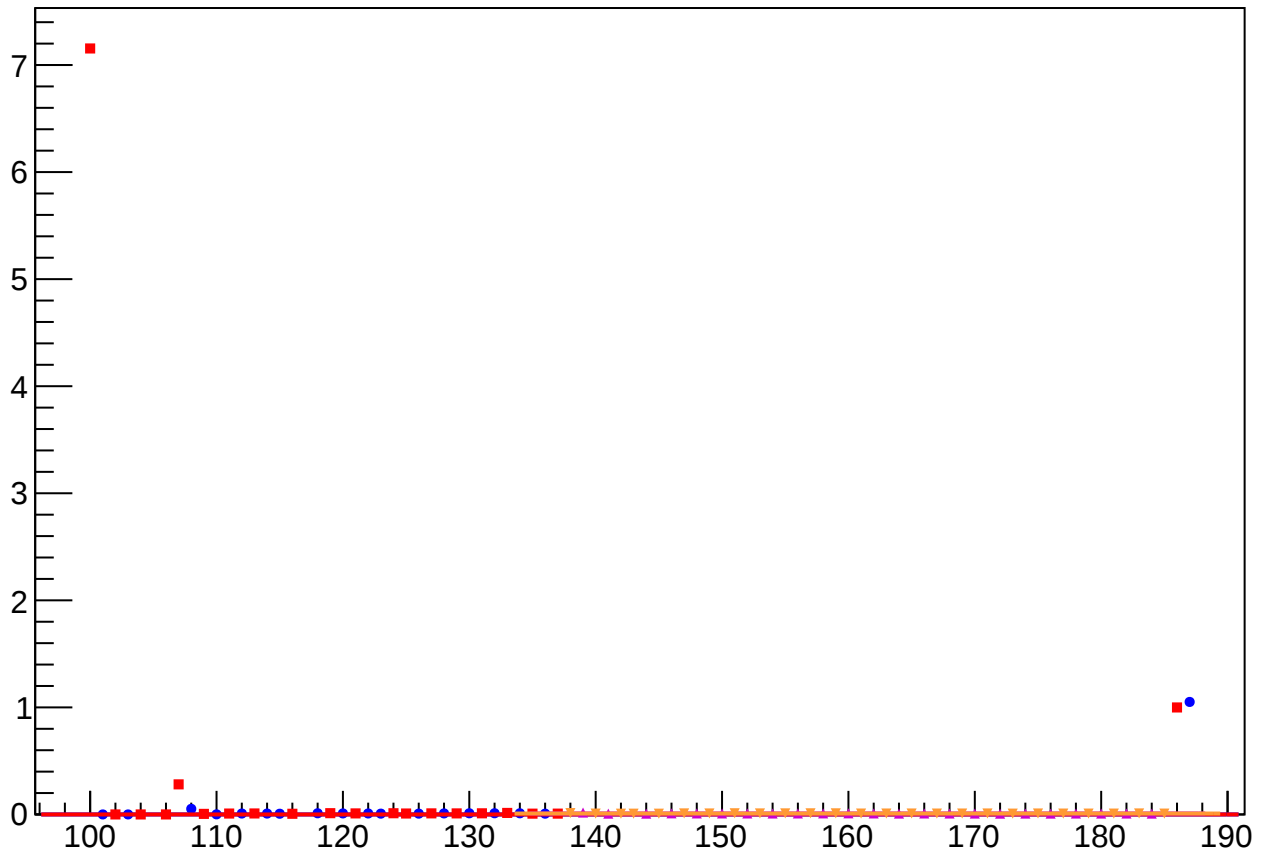
Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$

+ sign -6.921 ± 0.000 $\chi^2/\text{NDF}: 18423681770244.1/17$

All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435285849213.0/17$

- sign -4.882 ± 0.000 $\chi^2/\text{NDF}: 369731690836244.4/17$

yield_cav4dX_rms vs Slug



Right In: 0.000+/-0.000 χ^2/NDF : 8634426.0/17

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9482015.0/19

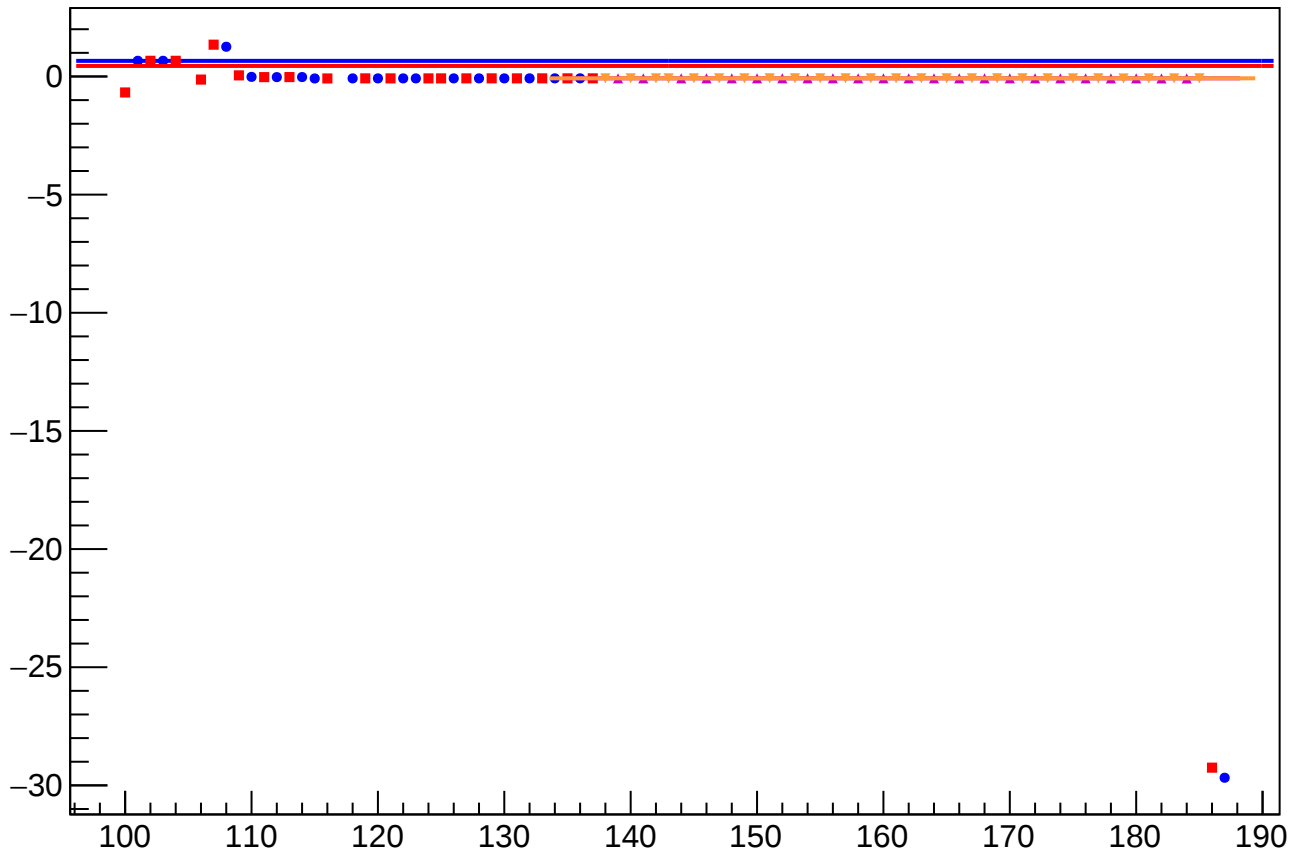
Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

+ sign 0.000+/-0.000 χ^2/NDF : 37537344.7/42

All: 0.000+/-0.000 χ^2/NDF : 74481071.0/85

- sign 0.000+/-0.000 χ^2/NDF : 36938908.9/42

yield_cav4dY_mean vs Slug



Right In: 0.661 ± 0.000 χ^2/NDF : 5658835185910.0/17

Left Out: -0.078 ± 0.000 χ^2/NDF : 156404795.7/24

Right Out: 0.446 ± 0.000 χ^2/NDF : 405428459804597.9/19

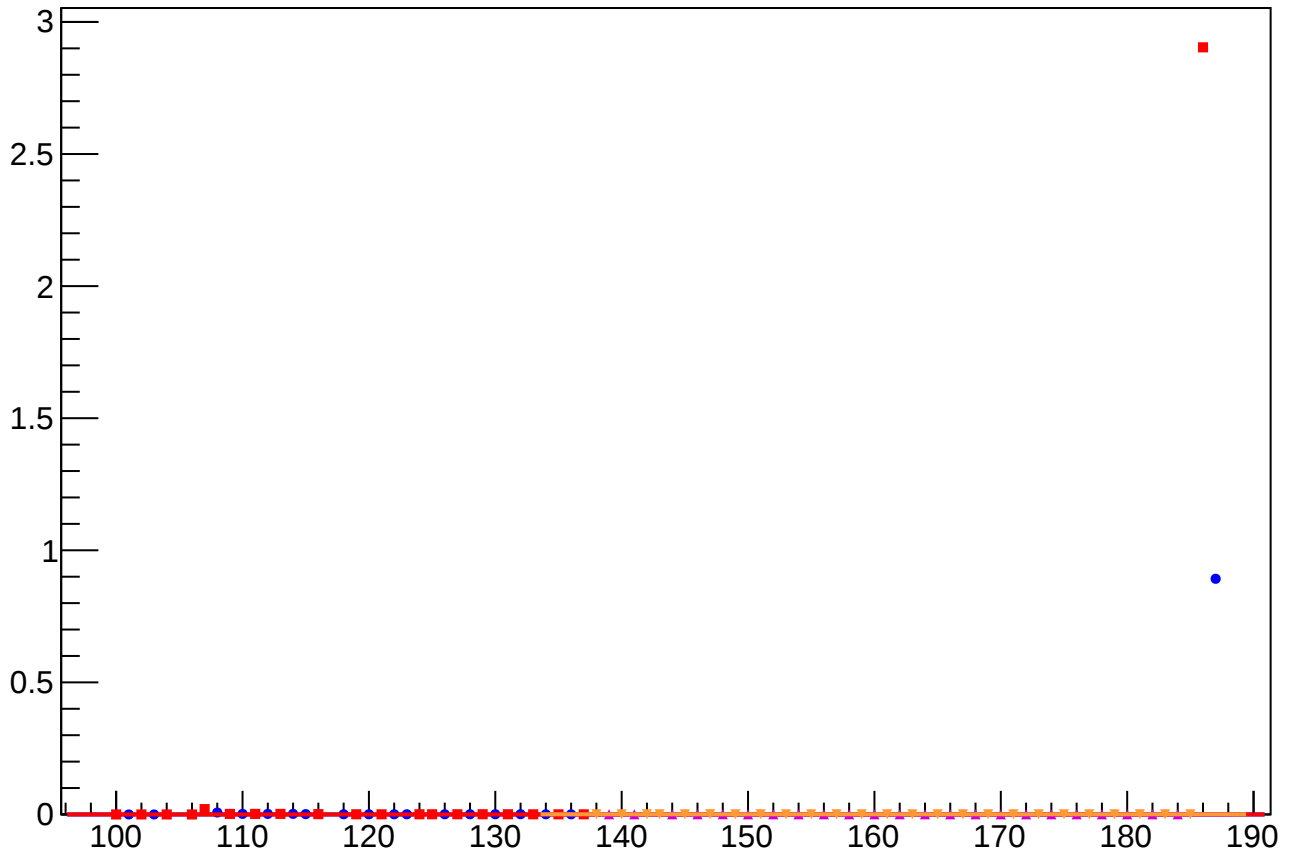
Left In: -0.077 ± 0.000 χ^2/NDF : 110762924.1/22

+ sign 0.646 ± 0.000 χ^2/NDF : 35757662778654.5/4

All: 0.537 ± 0.000 χ^2/NDF : 51584506495498

- sign 0.437 ± 0.000 χ^2/NDF : 419550518645132.1/4

yield_cav4dY_rms vs Slug



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 10240118.1/17

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:465981.8/24

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 10172950.2/19

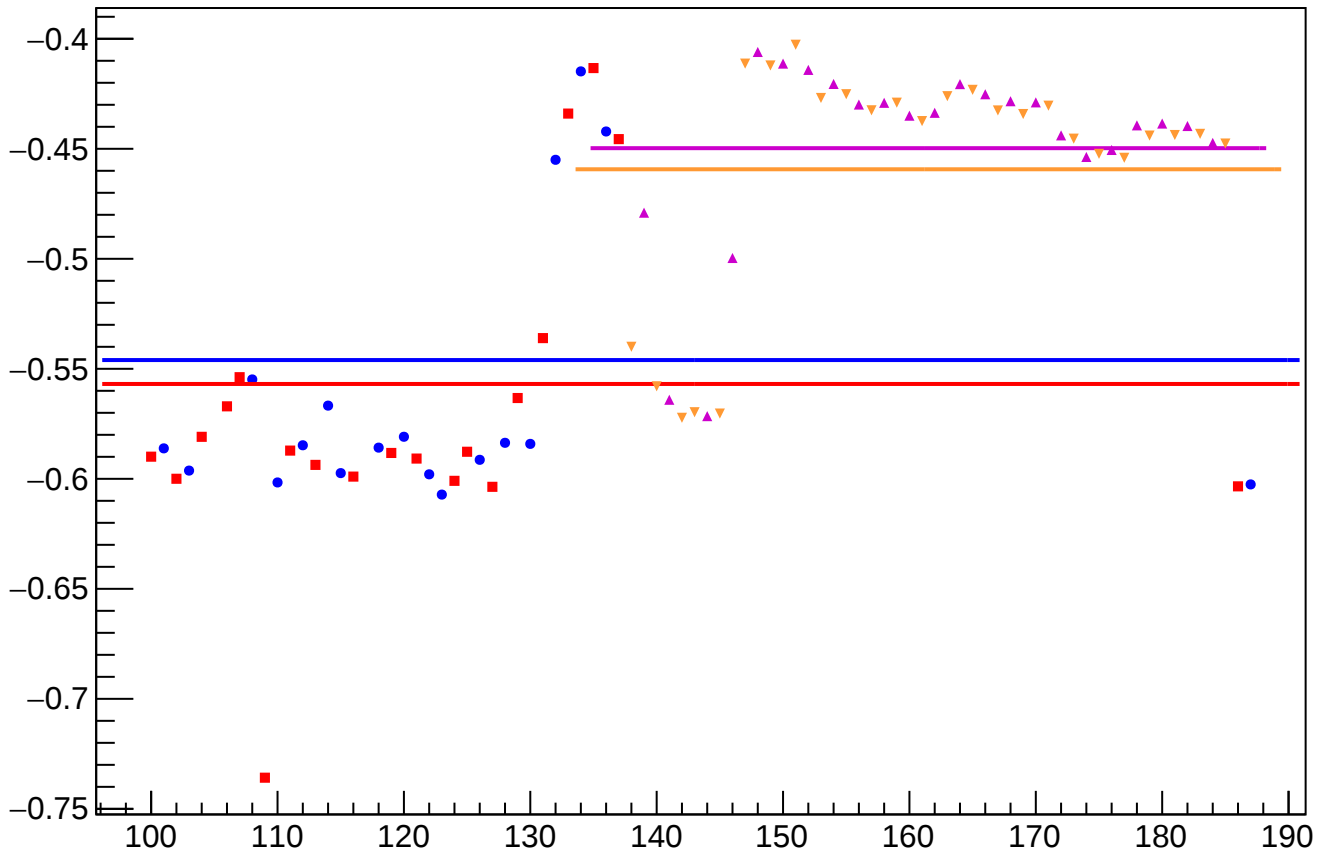
Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:355509.7/22

+ sign 0.000 $\pm$ 0.000 χ^2 /NDF: 42794298.0/42

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 83768561.8/85

- sign 0.000 $\pm$ 0.000 χ^2 /NDF: 40966434.4/42

yield_bpm4aX_mean vs Slug



Right In: -0.546+/-0.000 χ^2/NDF : 46533208.3/17

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.557+/-0.000 χ^2/NDF : 64480750.5/19

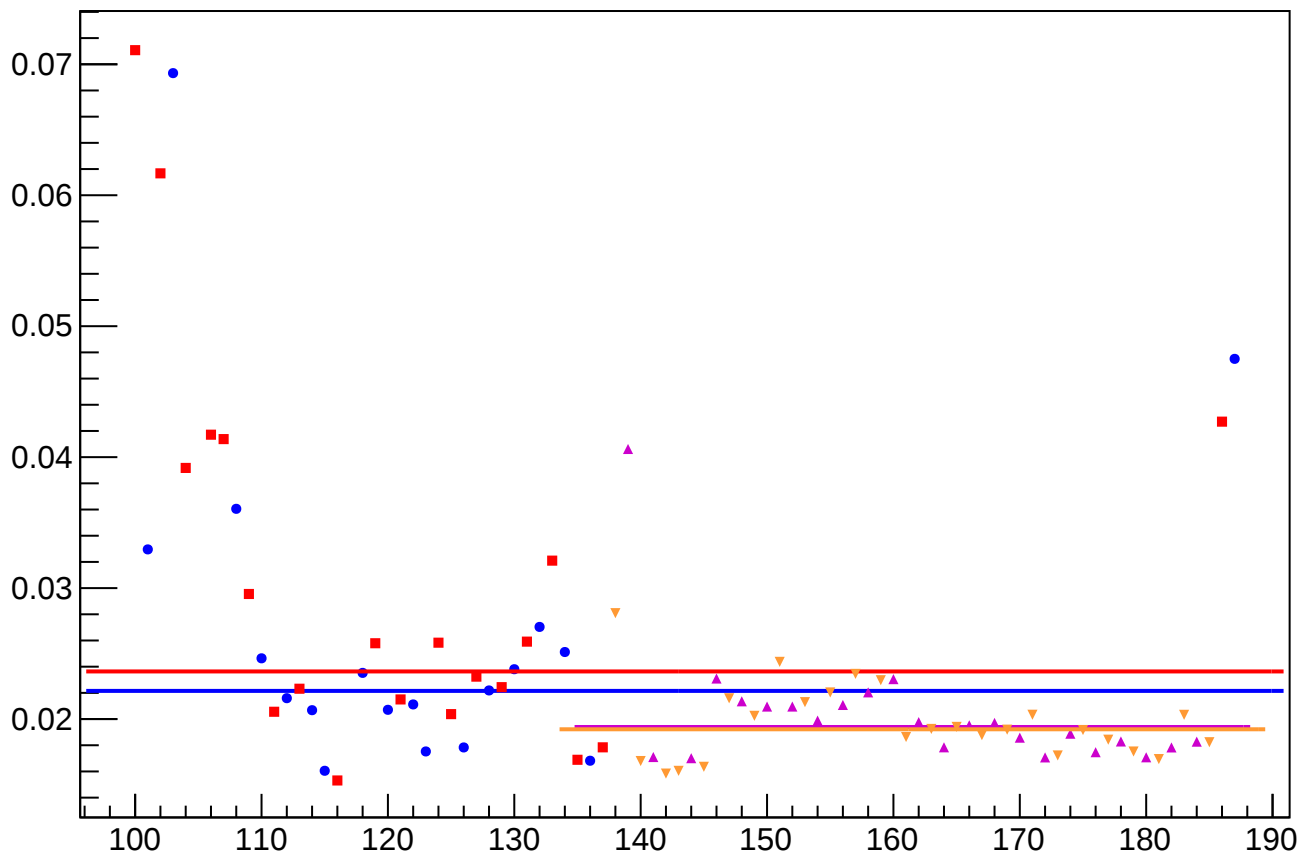
Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

+ sign -0.477+/-0.000 χ^2/NDF : 223181932.2/42

All: -0.475+/-0.000 χ^2/NDF : 454981306.6/85

- sign -0.473+/-0.000 χ^2/NDF : 231214012.3/42

yield_bpm4aX_rms vs Slug



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 1040875.2/17

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 501711.6/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 1296968.3/19

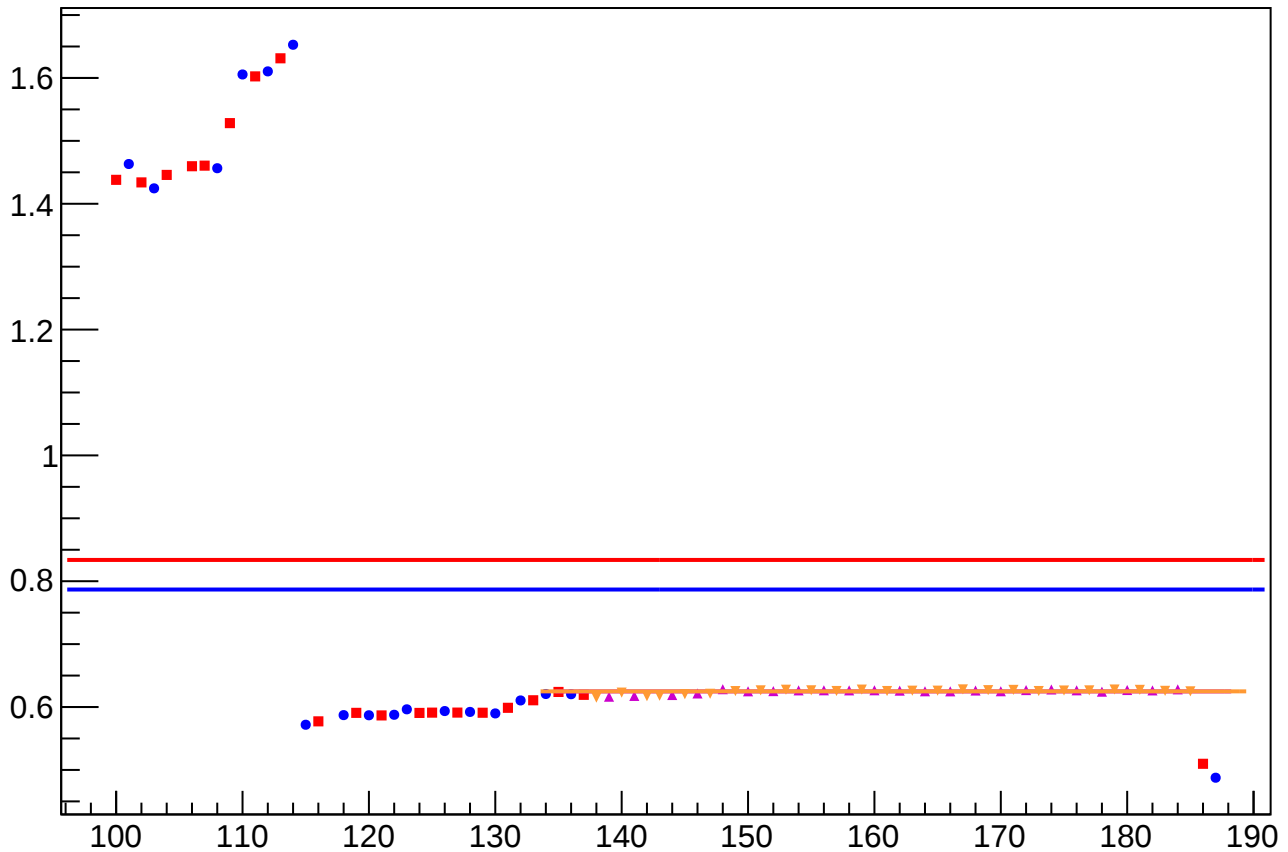
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 626443.5/22

+ sign 0.020 $\pm$ 0.000 χ^2 /NDF: 1686675.3/42

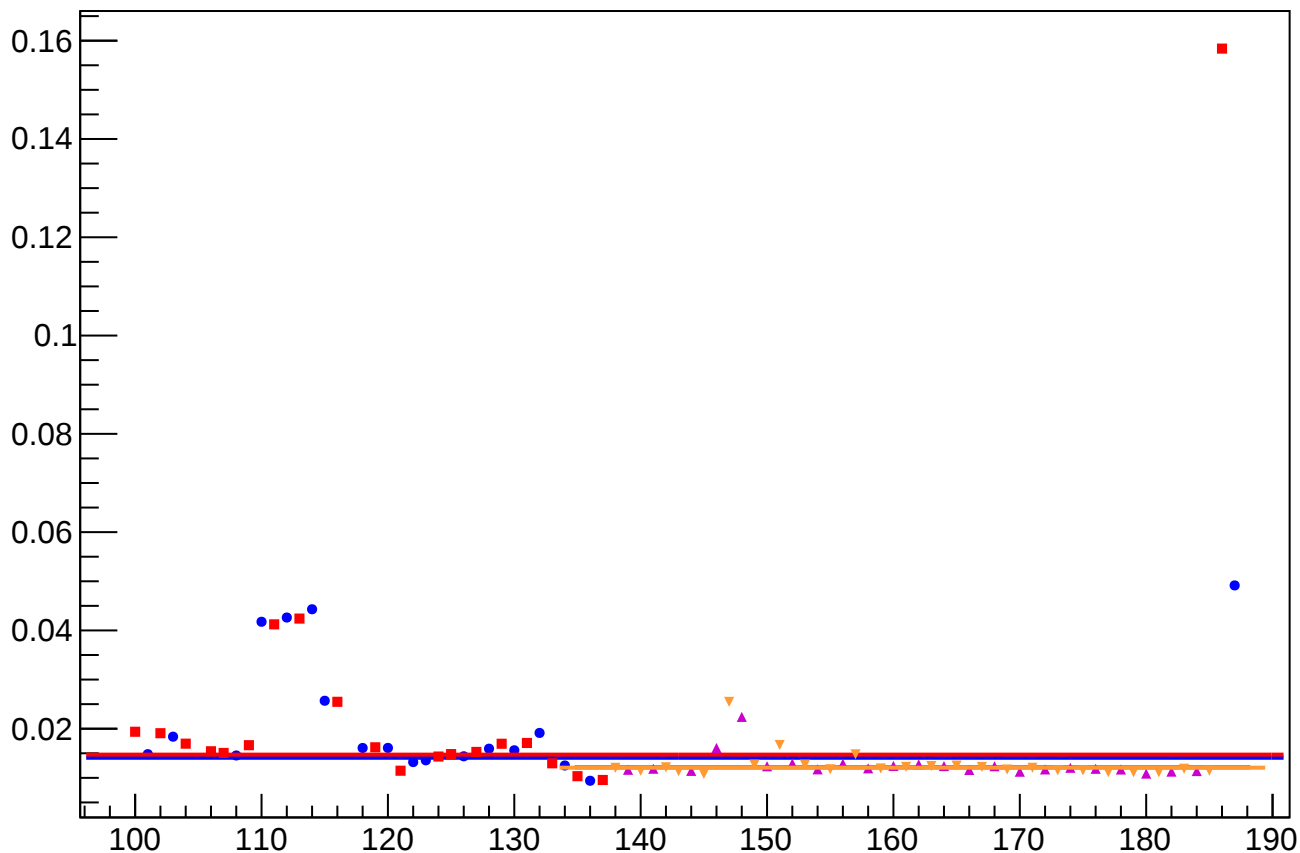
All: 0.020 $\pm$ 0.000 χ^2 /NDF: 3904679.2/85

- sign 0.020 $\pm$ 0.000 χ^2 /NDF: 2207429.4/42

yield_bpm4aY_mean vs Slug



yield_bpm4aY_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1544691.7/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1847994.5/19

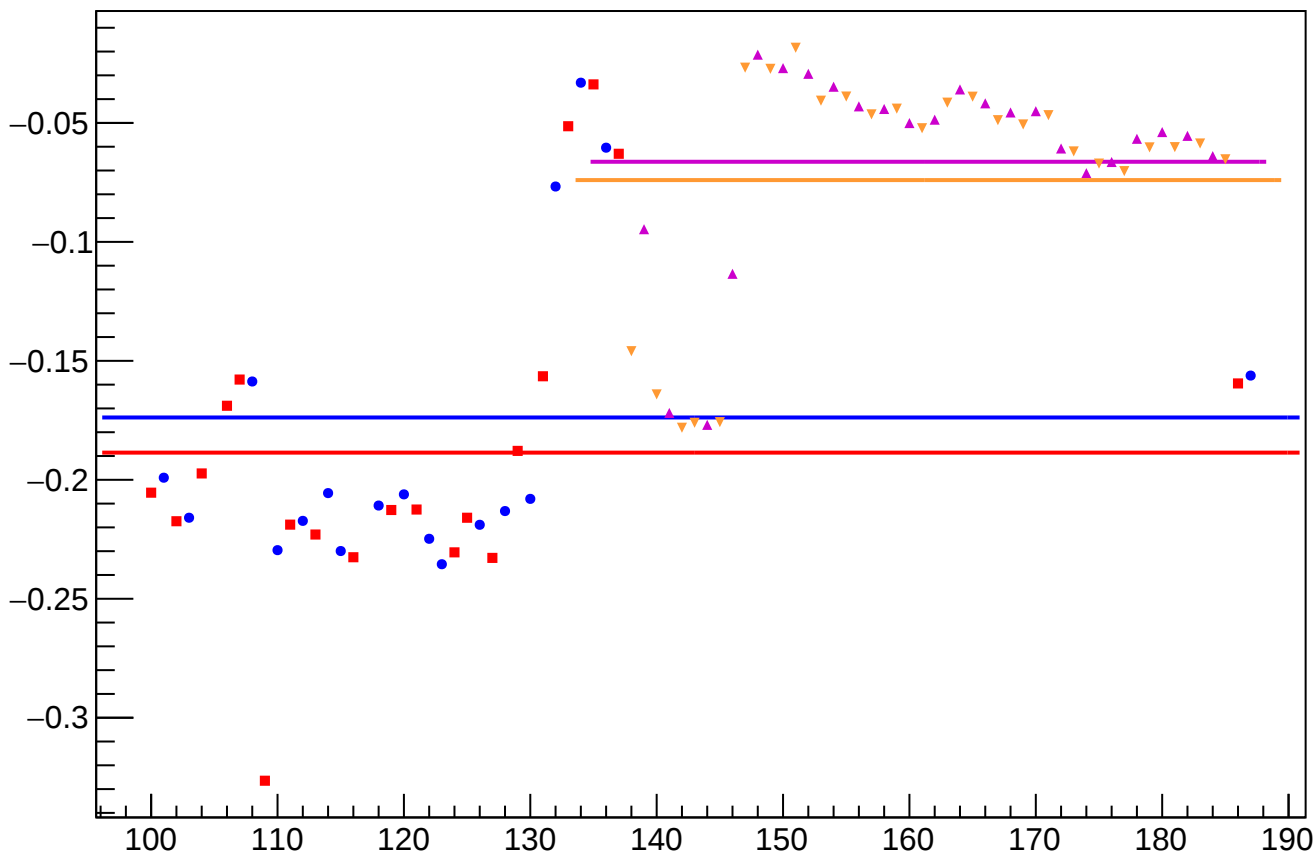
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 2392234.7/42

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5034625.9/85

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2637228.6/42

yield_bpm4eX_mean vs Slug



Right In: -0.174+/-0.000 χ^2/NDF : 66797845.9/17

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.189+/-0.000 χ^2/NDF : 82134551.8/19

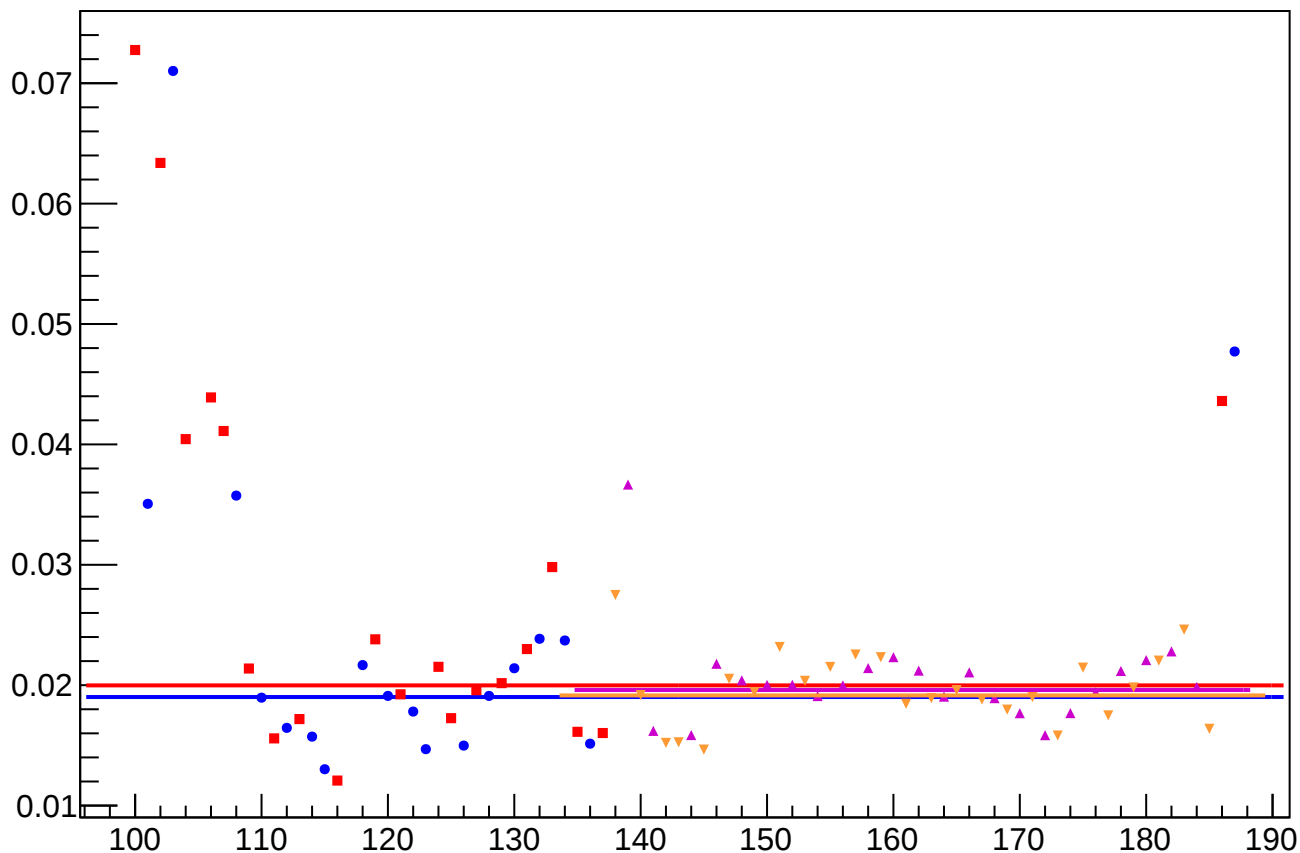
Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

+ sign -0.099+/-0.000 χ^2/NDF : 278861751.0/42

All: -0.099+/-0.000 χ^2/NDF : 585920357.5/85

- sign -0.099+/-0.000 χ^2/NDF : 307054673.7/42

yield_bpm4eX_rms vs Slug



Right In: 0.019+/-0.000 χ^2/NDF : 1314984.1/17

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.020+/-0.000 χ^2/NDF : 1663477.2/19

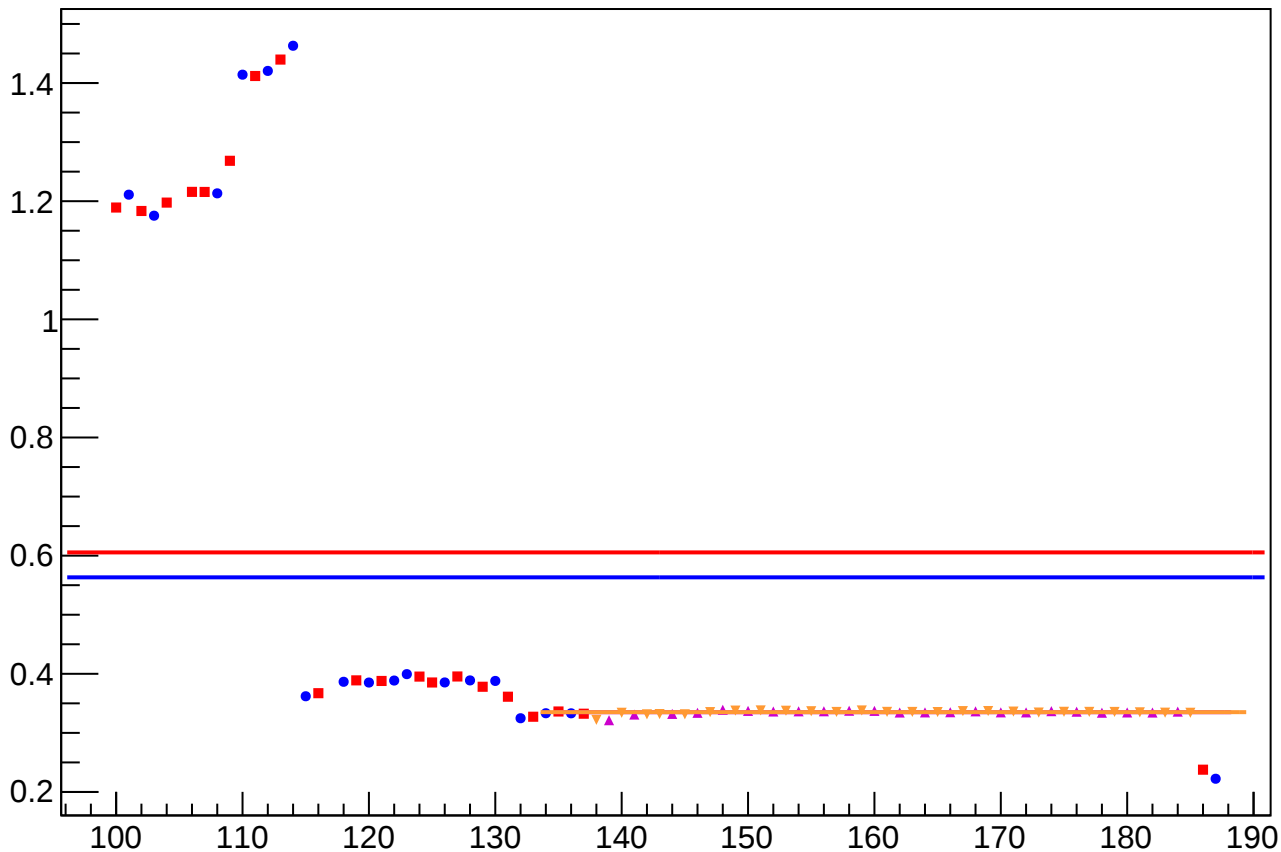
Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

+ sign 0.019+/-0.000 χ^2/NDF : 1956637.7/42

All: 0.019+/-0.000 χ^2/NDF : 4264314.7/85

- sign 0.020+/-0.000 χ^2/NDF : 2289583.9/42

yield_bpm4eY_mean vs Slug



Right In: 0.563 $\pm$ 0.000 χ^2 /NDF: 5055392059.6/17

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1154310.3/24

Right Out: 0.605 $\pm$ 0.000 χ^2 /NDF: 5533644928.7/19

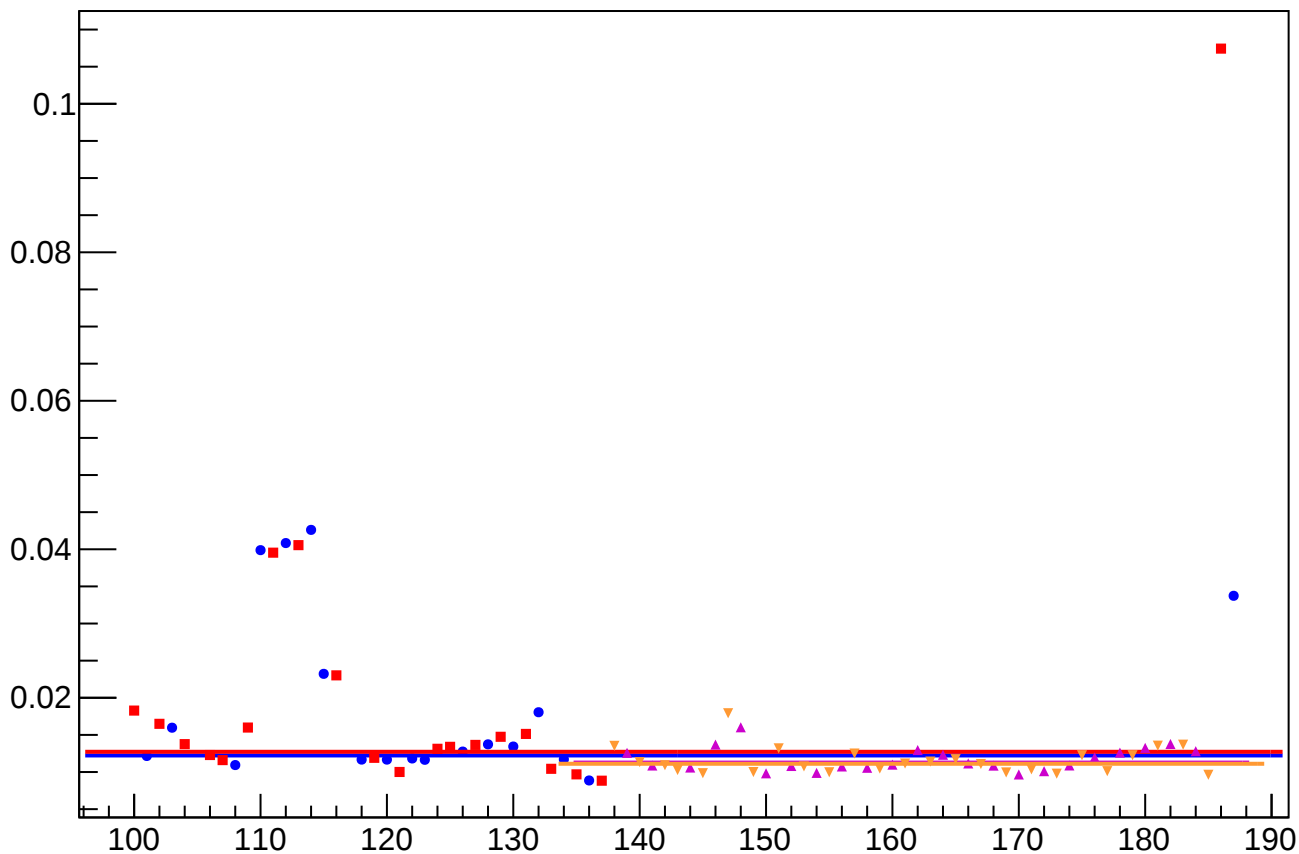
Left In: 0.335 $\pm$ 0.000 χ^2 /NDF: 1202194.8/22

+ sign 0.384 $\pm$ 0.000 χ^2 /NDF: 6626861489.4/42

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 14267435529.4/8

- sign 0.395 $\pm$ 0.000 χ^2 /NDF: 7630201340.5/42

yield_bpm4eY_rms vs Slug



Right In: 0.012 ± 0.000 χ^2/NDF : 1419365.8/17

Left Out: 0.011 ± 0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013 ± 0.000 χ^2/NDF : 1822789.0/19

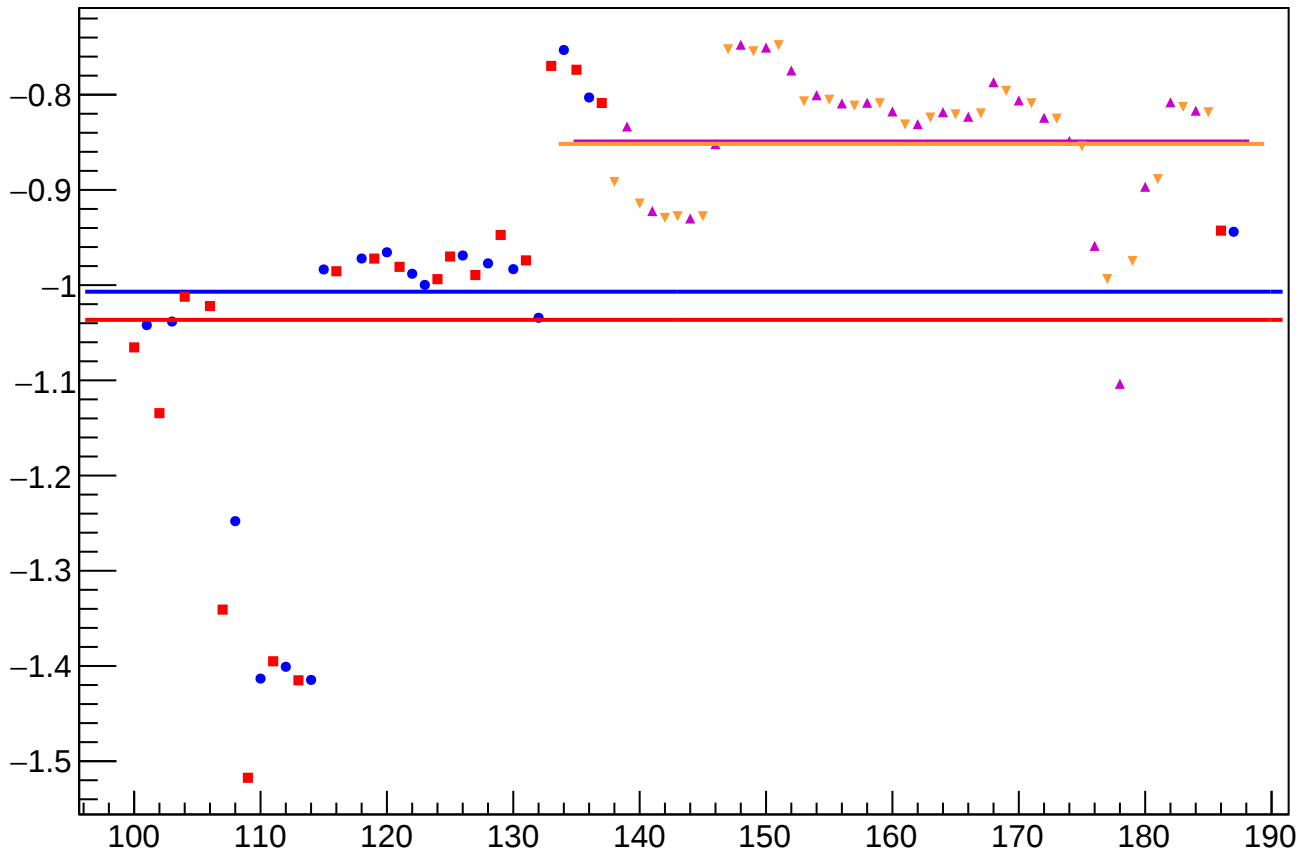
Left In: 0.011 ± 0.000 χ^2/NDF : 502455.5/22

+ sign 0.011 ± 0.000 χ^2/NDF : 2102349.2/42

All: 0.011 ± 0.000 χ^2/NDF : 4558776.3/85

- sign 0.012 ± 0.000 χ^2/NDF : 2446254.3/42

yield_bpm4acX_mean vs Slug



Right In: -1.007 ± 0.000 χ^2/NDF : 393852985.8/17

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.036 ± 0.000 χ^2/NDF : 537408917.6/19

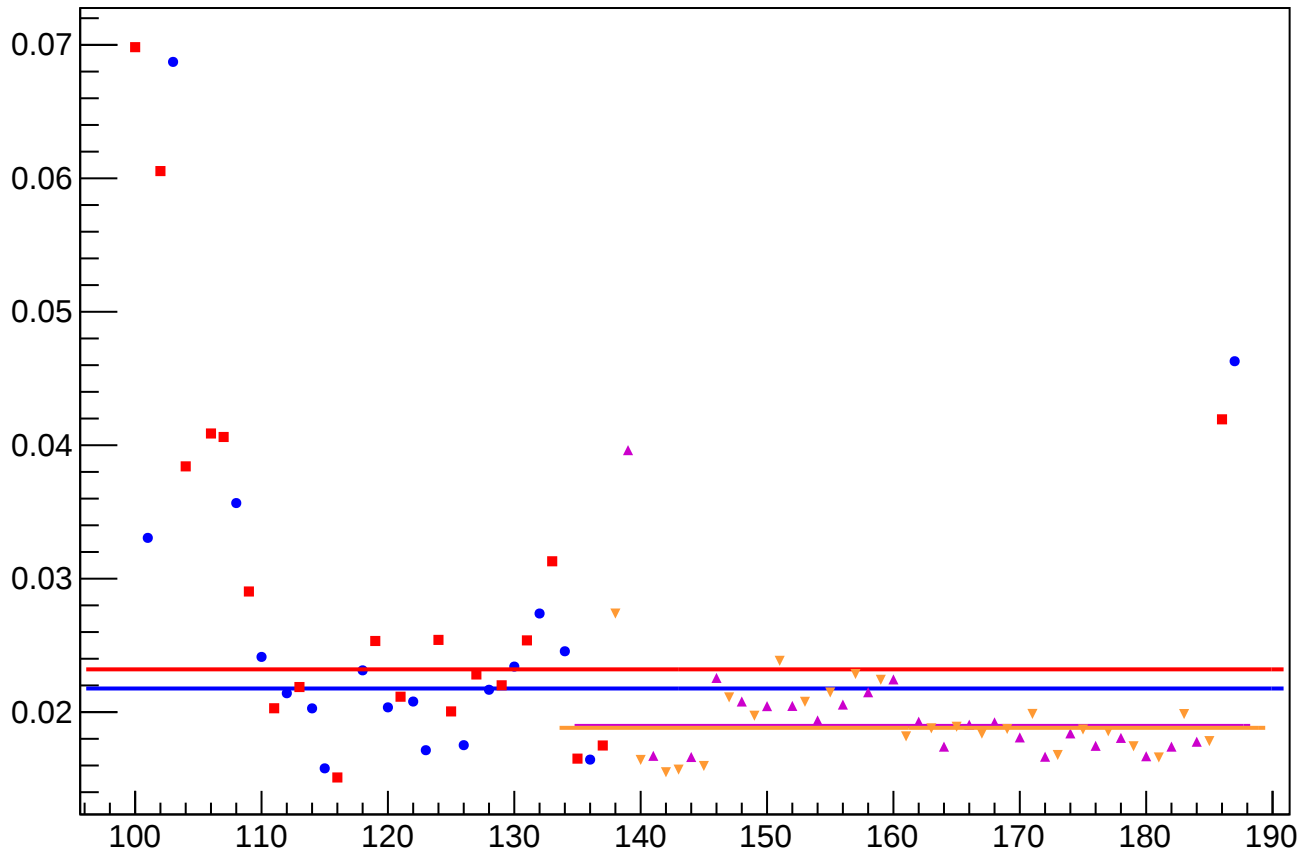
Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

+ sign -0.884 ± 0.000 χ^2/NDF : 791957378.3/42

All: -0.886 ± 0.000 χ^2/NDF : 1873751610.7/8

- sign -0.889 ± 0.000 χ^2/NDF : 1081233196.8/42

yield_bpm4acX_rms vs Slug



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 1064600.9/17

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 490509.4/24

Right Out: 0.023 $\pm$ 0.000 χ^2 /NDF: 1293192.5/19

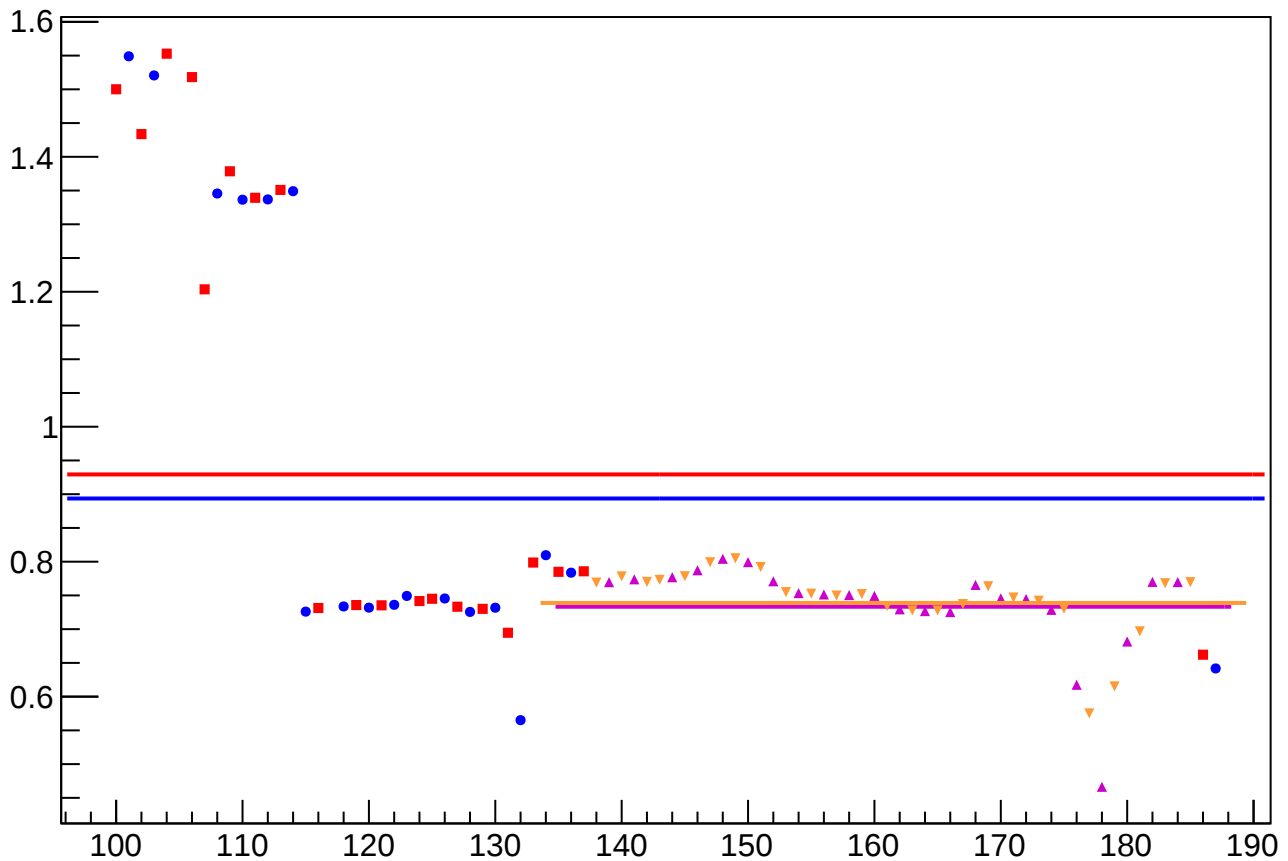
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 615173.8/22

+ sign 0.019 $\pm$ 0.000 χ^2 /NDF: 1705930.7/42

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 3917621.3/85

- sign 0.020 $\pm$ 0.000 χ^2 /NDF: 2202408.8/42

yield_bpm4acY_mean vs Slug



Right In: 0.894 ± 0.000 χ^2/NDF : 2402792113.3/17

Left Out: 0.739 ± 0.000 χ^2/NDF : 333013236.5/24

+ sign 0.768 ± 0.000 χ^2/NDF : 3275550790.4/42

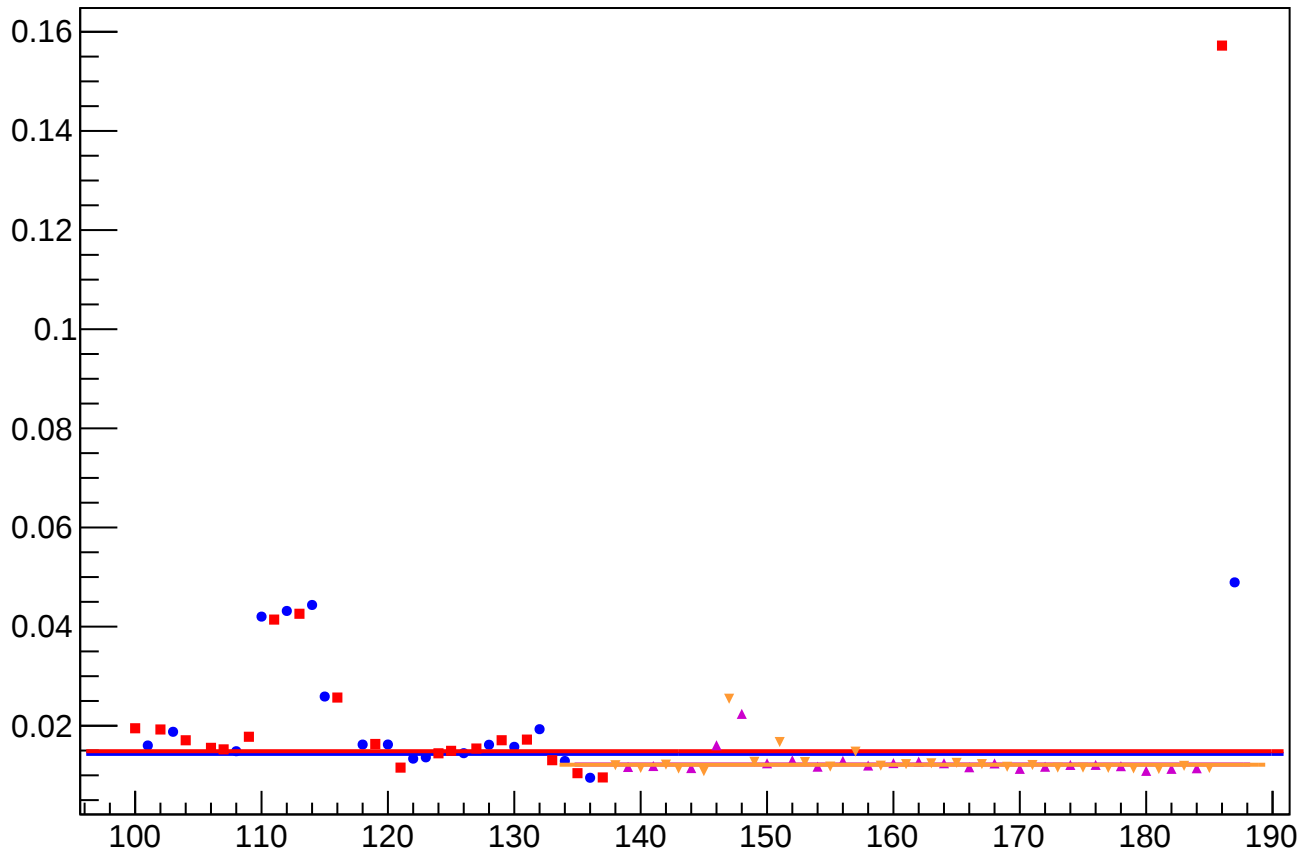
Right Out: 0.929 ± 0.000 χ^2/NDF : 2423051847.2/19

All: 0.770 ± 0.000 χ^2/NDF : 7112902397.5/85

- sign 0.772 ± 0.000 χ^2/NDF : 3836461773.4/42

Left In: 0.733 ± 0.000 χ^2/NDF : 569611347.7/22

yield_bpm4acY_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1552295.8/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1855724.0/19

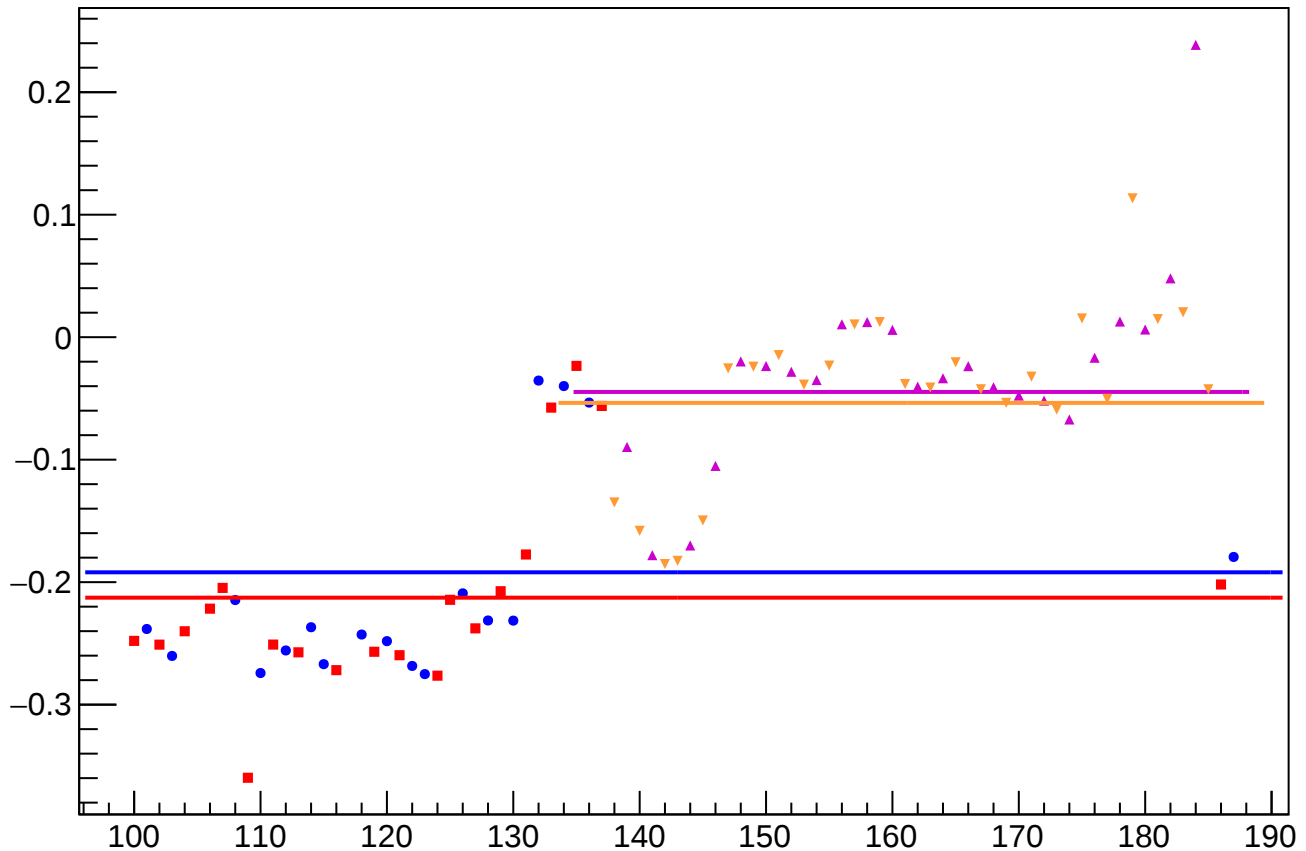
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 481830.1/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2405733.5/42

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5061601.6/85

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 2652073.5/42

yield_bpm4ecX_mean vs Slug



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106210097.7/17$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

+ sign -0.089 ± 0.000 $\chi^2/\text{NDF}: 469714343.9/42$

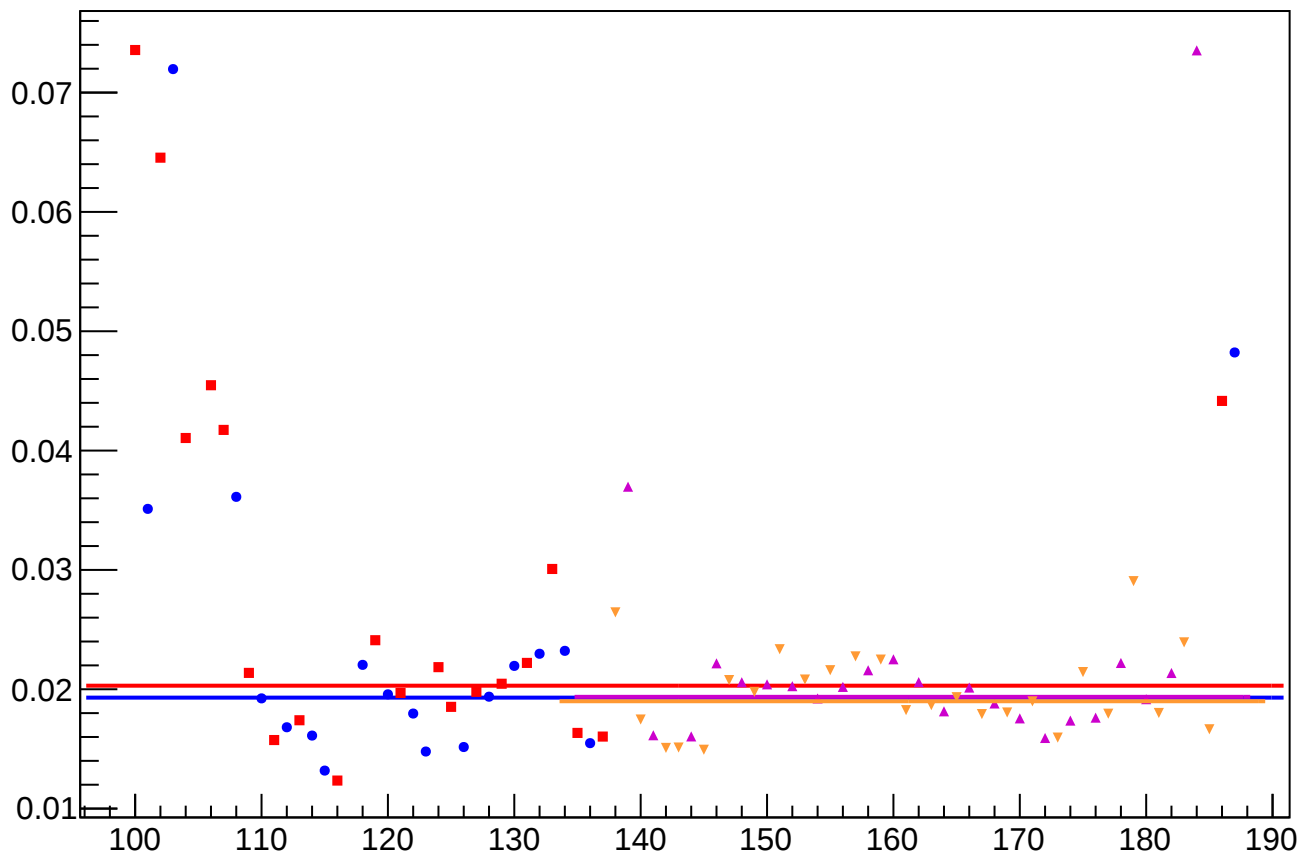
Right Out: -0.213 ± 0.000 $\chi^2/\text{NDF}: 110543823.5/19$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 981018008.4/85$

- sign -0.089 ± 0.000 $\chi^2/\text{NDF}: 511302434.8/42$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

yield_bpm4ecX_rms vs Slug



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 1285381.6/17

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 1653440.4/19

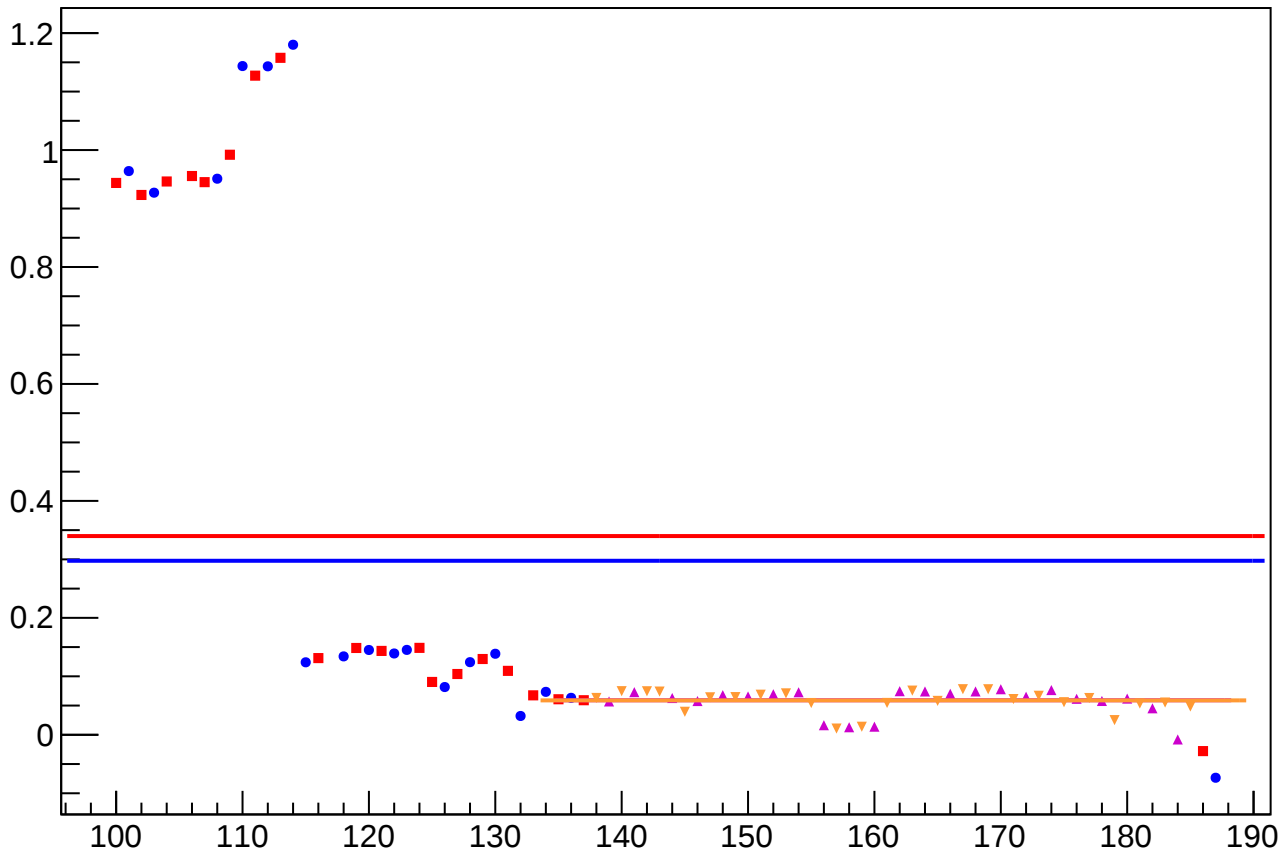
Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

+ sign 0.019 $\pm$ 0.000 χ^2 /NDF: 1987478.9/42

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 4531095.1/85

- sign 0.020 $\pm$ 0.000 χ^2 /NDF: 2528572.1/42

yield_bpm4ecY_mean vs Slug



Right In: 0.298 $\pm$ 0.000 χ^2 /NDF: 5198079836.6/17

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.340 $\pm$ 0.000 χ^2 /NDF: 5477919892.5/19

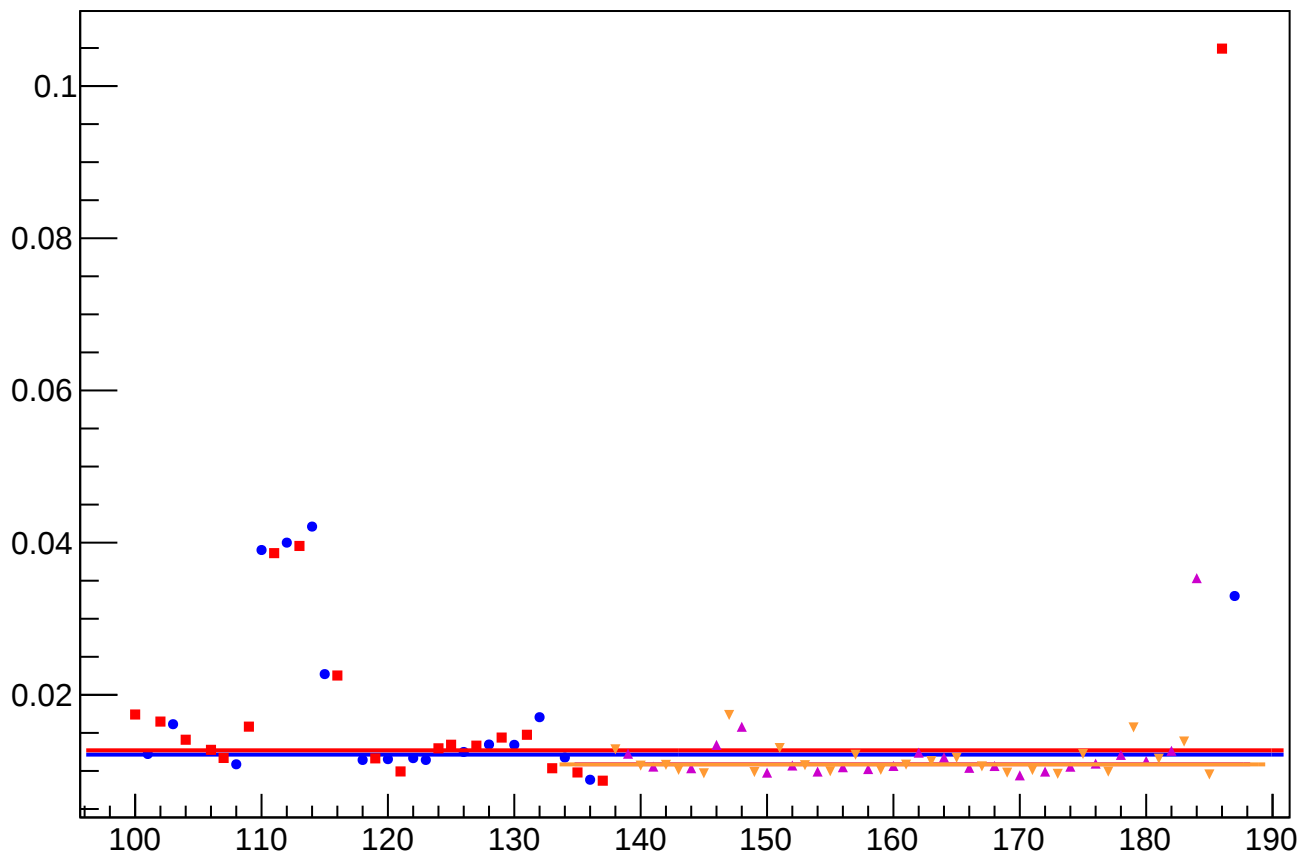
Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

+ sign 0.110 $\pm$ 0.000 χ^2 /NDF: 6990278725.6/42

All: 0.114 $\pm$ 0.000 χ^2 /NDF: 14820018658.4/8

- sign 0.119 $\pm$ 0.000 χ^2 /NDF: 7821960240.3/42

yield_bpm4ecY_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 1389923.9/17

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1786468.3/19

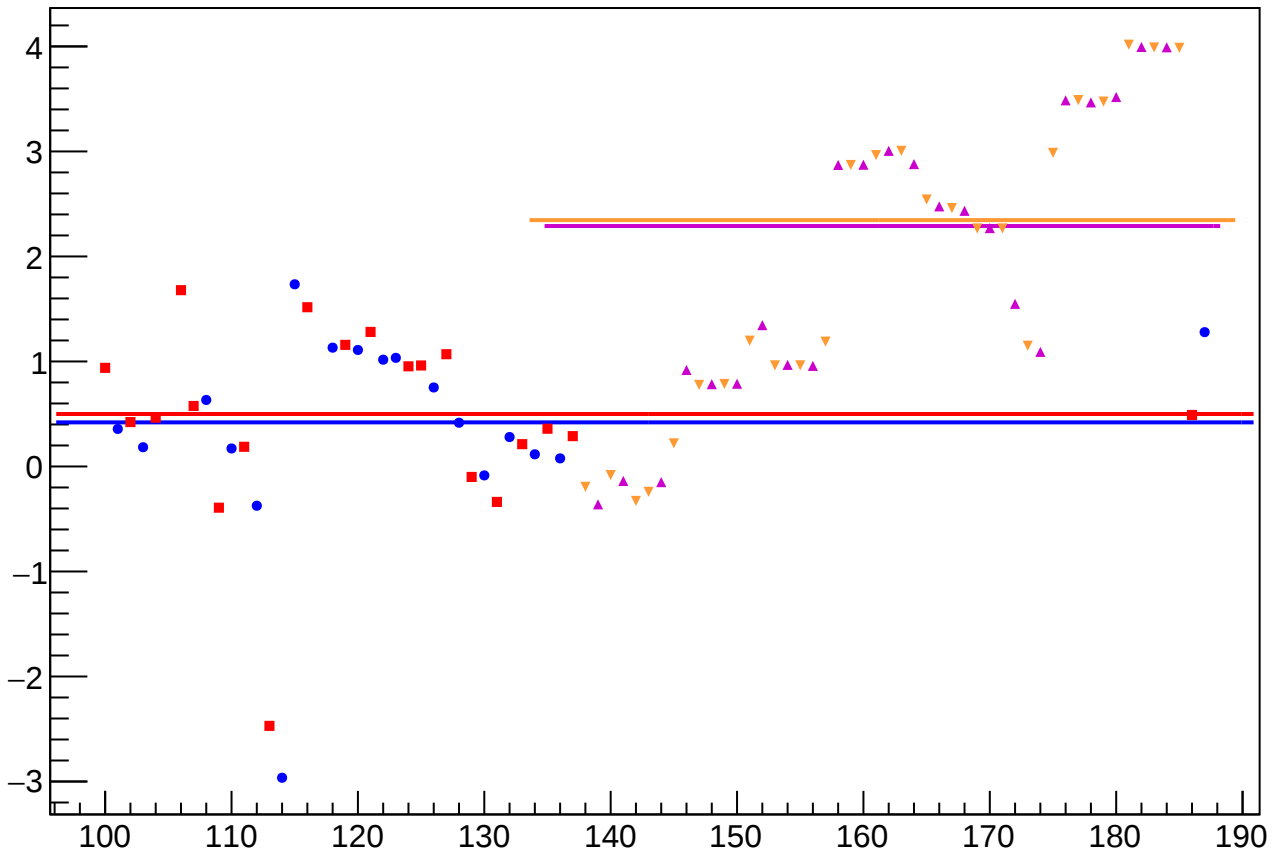
Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 530077.5/22

+ sign 0.011 $\pm$ 0.000 χ^2/NDF : 2096244.5/42

All: 0.011 $\pm$ 0.000 χ^2/NDF : 4608411.2/85

- sign 0.011 $\pm$ 0.000 χ^2/NDF : 2508446.1/42

yield_bpm1X_mean vs Slug



Right In: 0.420 ± 0.000 χ^2/NDF : 294495079.0/17

Left Out: 2.346 ± 0.000 χ^2/NDF : 63481331015.4/24

Right Out: 0.500 ± 0.000 χ^2/NDF : 983060385.2/19

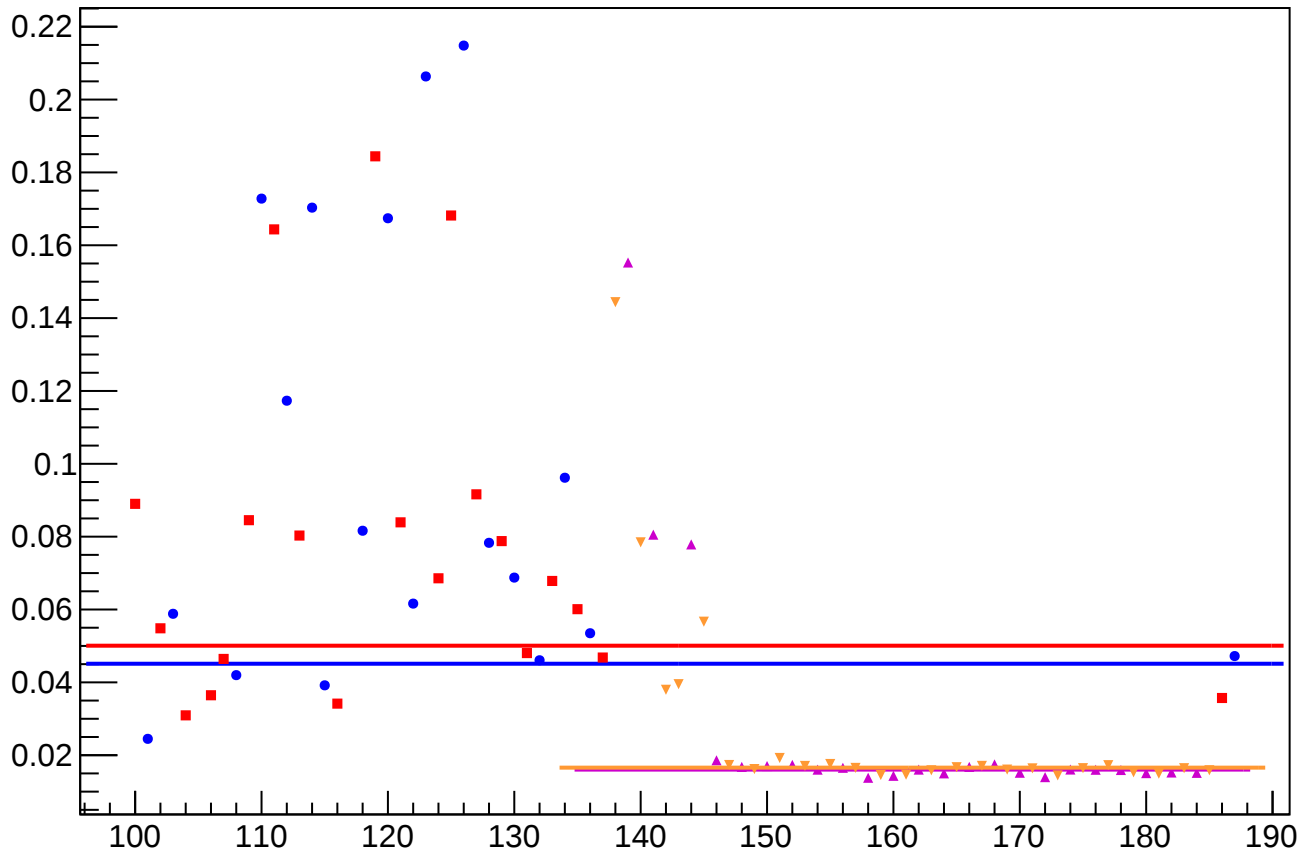
Left In: 2.290 ± 0.000 χ^2/NDF : 60875537647.3/22

+ sign 2.280 ± 0.000 χ^2/NDF : 70267282145.4/42

All: 2.255 ± 0.000 χ^2/NDF : 137612063997.0

- sign 2.231 ± 0.000 χ^2/NDF : 67281691130.5/42

yield_bpm1X_rms vs Slug



Right In: 0.045+/-0.000 χ^2/NDF : 2831259.9/17

Left Out: 0.017+/-0.000 χ^2/NDF :2621162.1/24

Right Out: 0.050+/-0.000 χ^2/NDF : 2303294.8/19

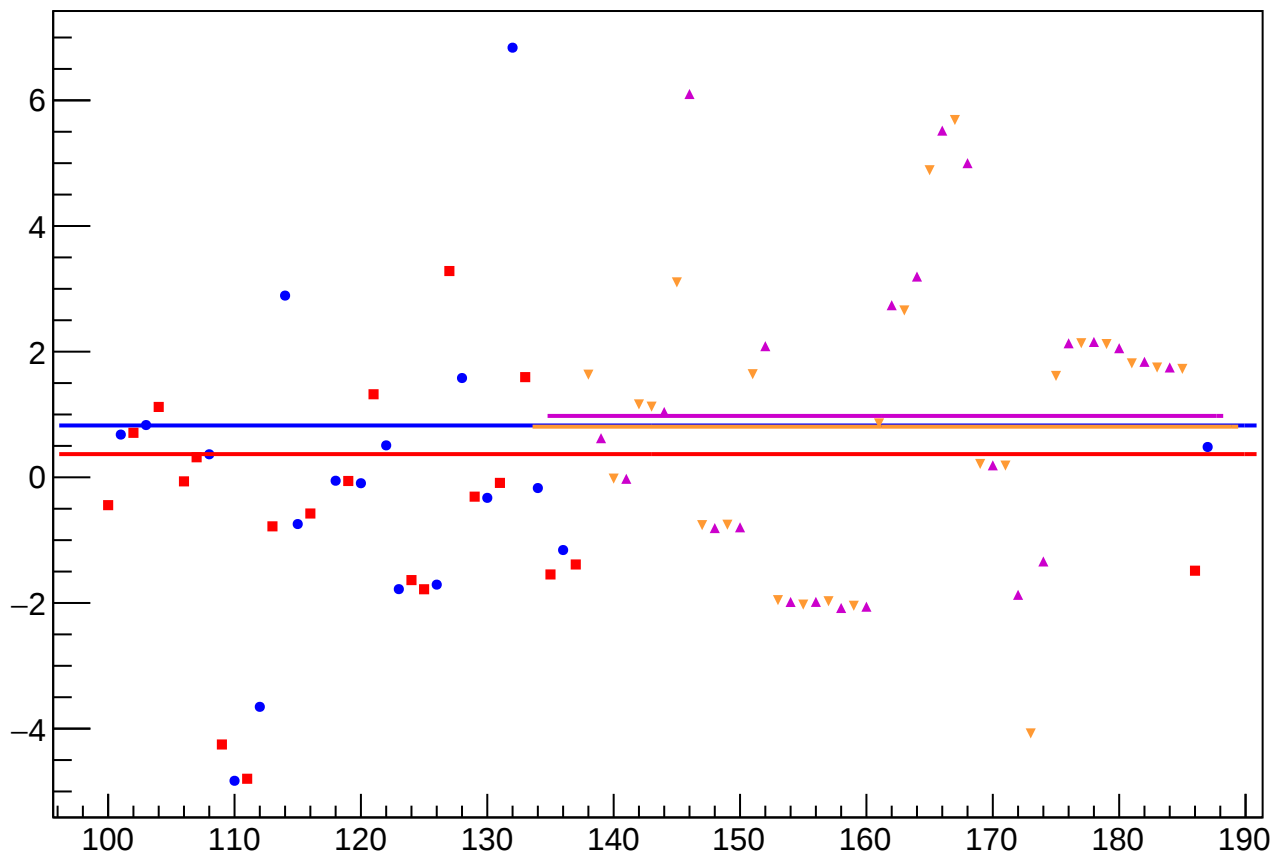
Left In: 0.016+/-0.000 χ^2/NDF :2394376.5/22

+ sign 0.018+/-0.000 χ^2/NDF : 8300264.1/42

All: 0.017+/-0.000 χ^2/NDF : 16924662.4/85

- sign 0.017+/-0.000 χ^2/NDF : 8615580.7/42

yield_bpm1Y_mean vs Slug



Right In: 0.825 ± 0.000 χ^2/NDF : 10937836203.8/17

Left Out: 0.806 ± 0.000 χ^2/NDF : 507578952196.2/24

Right Out: 0.369 ± 0.000 χ^2/NDF : 4993173320.4/19

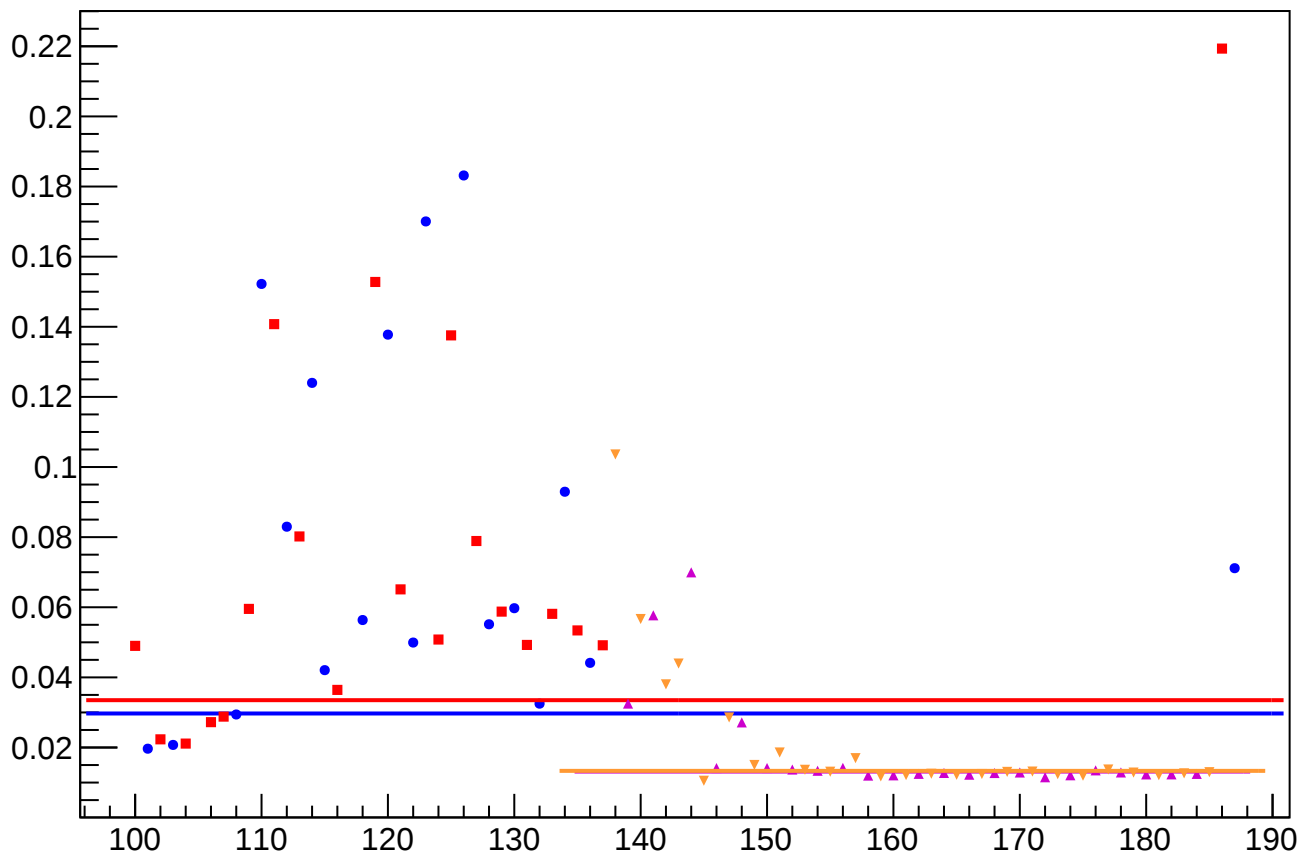
Left In: 0.977 ± 0.000 χ^2/NDF : 568209676597.4/22

+ sign 0.807 ± 0.000 χ^2/NDF : 518518184843.3/42

All: 0.880 ± 0.000 χ^2/NDF : 1093916973466.

- sign 0.953 ± 0.000 χ^2/NDF : 574447312098.8/42

yield_bpm1Y_rms vs Slug



Right In: 0.030+/-0.000 χ^2/NDF : 3128717.1/17

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.033+/-0.000 χ^2/NDF : 3582495.9/19

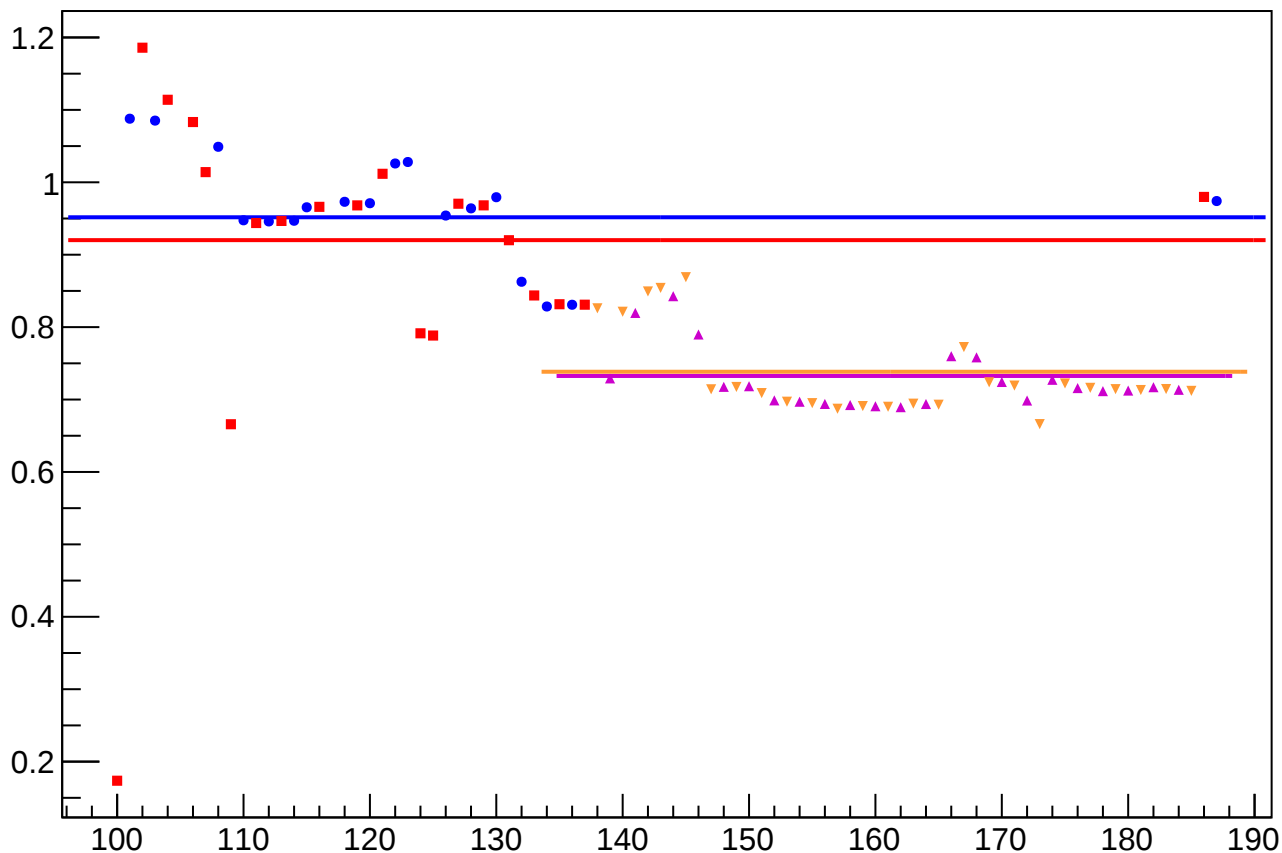
Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

+ sign 0.014+/-0.000 χ^2/NDF : 7985284.2/42

All: 0.014+/-0.000 χ^2/NDF : 16306706.4/85

- sign 0.014+/-0.000 χ^2/NDF : 8320018.2/42

yield_bpm11X_mean vs Slug



Right In: 0.952 ± 0.000 χ^2/NDF : 174069007.6/17

Left Out: 0.738 ± 0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.920 ± 0.000 χ^2/NDF : 376661476.1/19

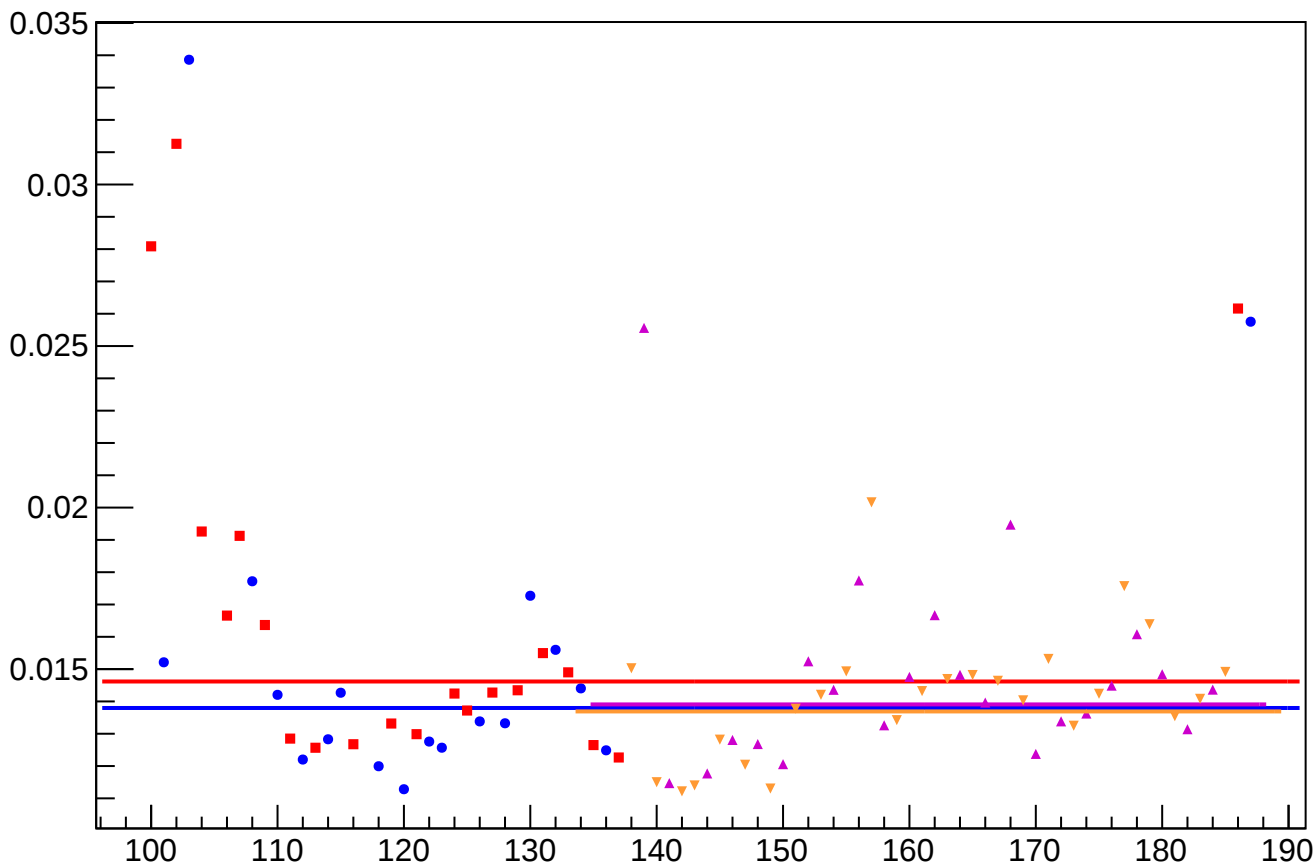
Left In: 0.733 ± 0.000 χ^2/NDF : 170102394.7/22

+ sign 0.795 ± 0.000 χ^2/NDF : 1522975839.0/42

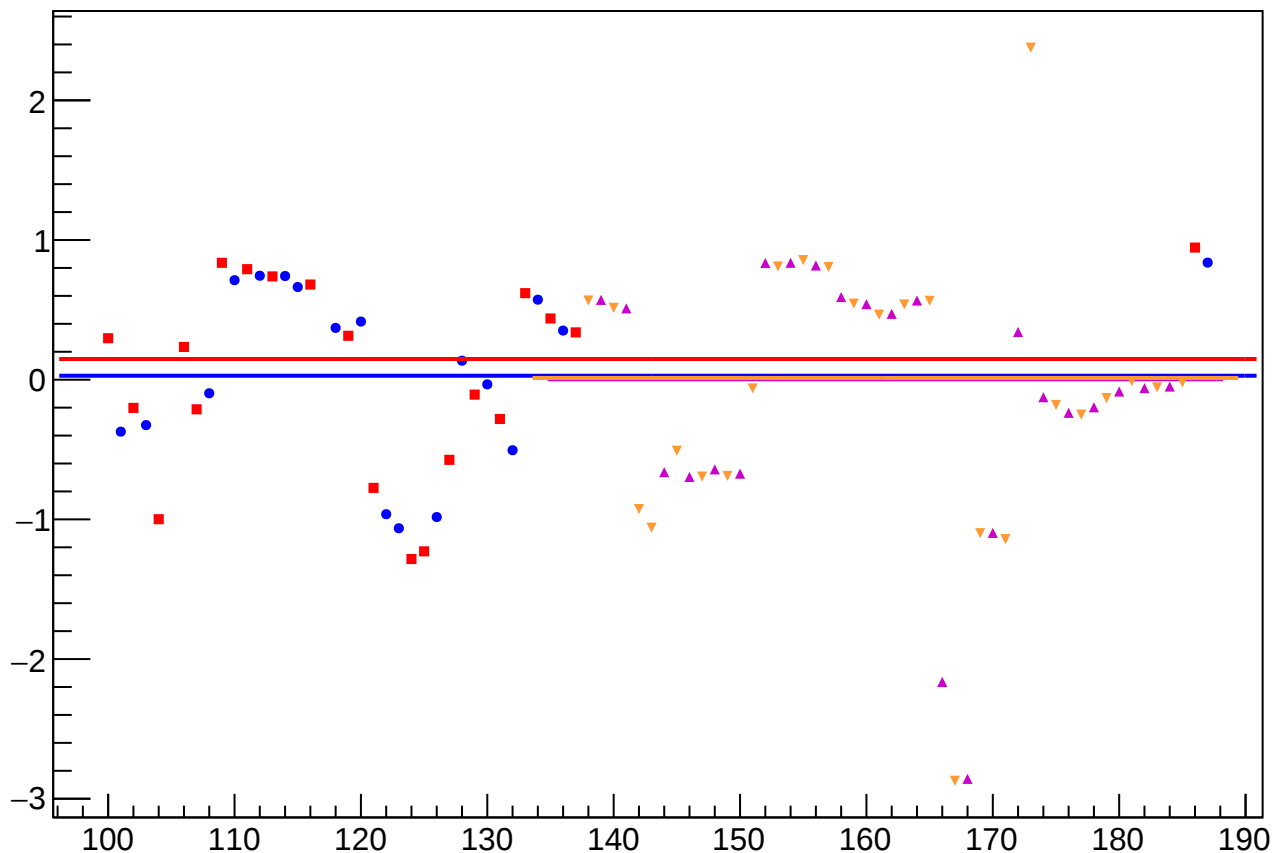
All: 0.789 ± 0.000 χ^2/NDF : 2839801323.5/85

- sign 0.783 ± 0.000 χ^2/NDF : 1309574227.3/42

yield_bpm11X_rms vs Slug



yield_bpm11Y_mean vs Slug



Right In: 0.028+/-0.000 χ^2/NDF : 6341784919.5/17

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.148+/-0.000 χ^2/NDF : 12789617145.9/19

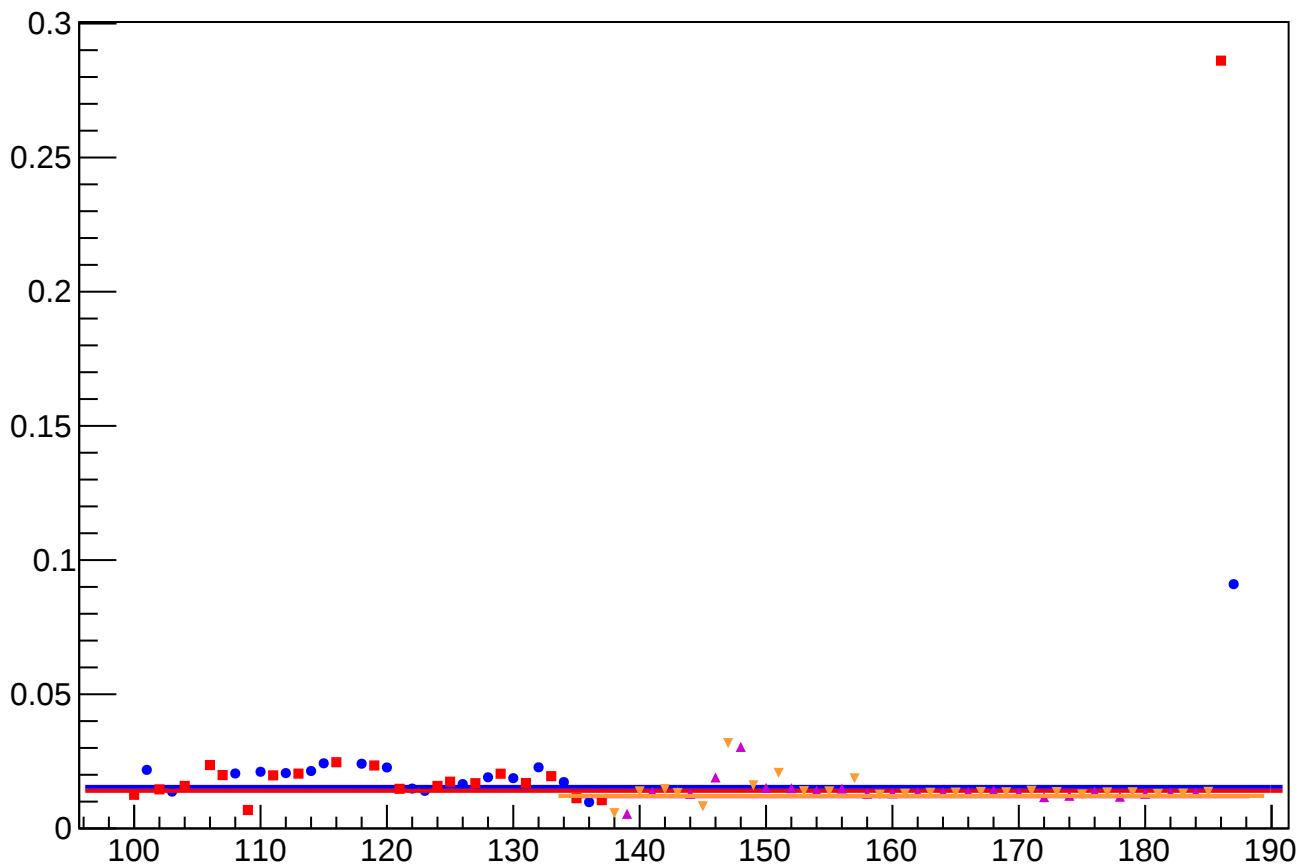
Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

+ sign 0.015+/-0.000 χ^2/NDF : 102730623730.7/42

All: 0.025+/-0.000 χ^2/NDF : 194843048981.6

- sign 0.034+/-0.000 χ^2/NDF : 92088218543.2/42

yield_bpm11Y_rms vs Slug



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1353536.7/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2192133.8/19

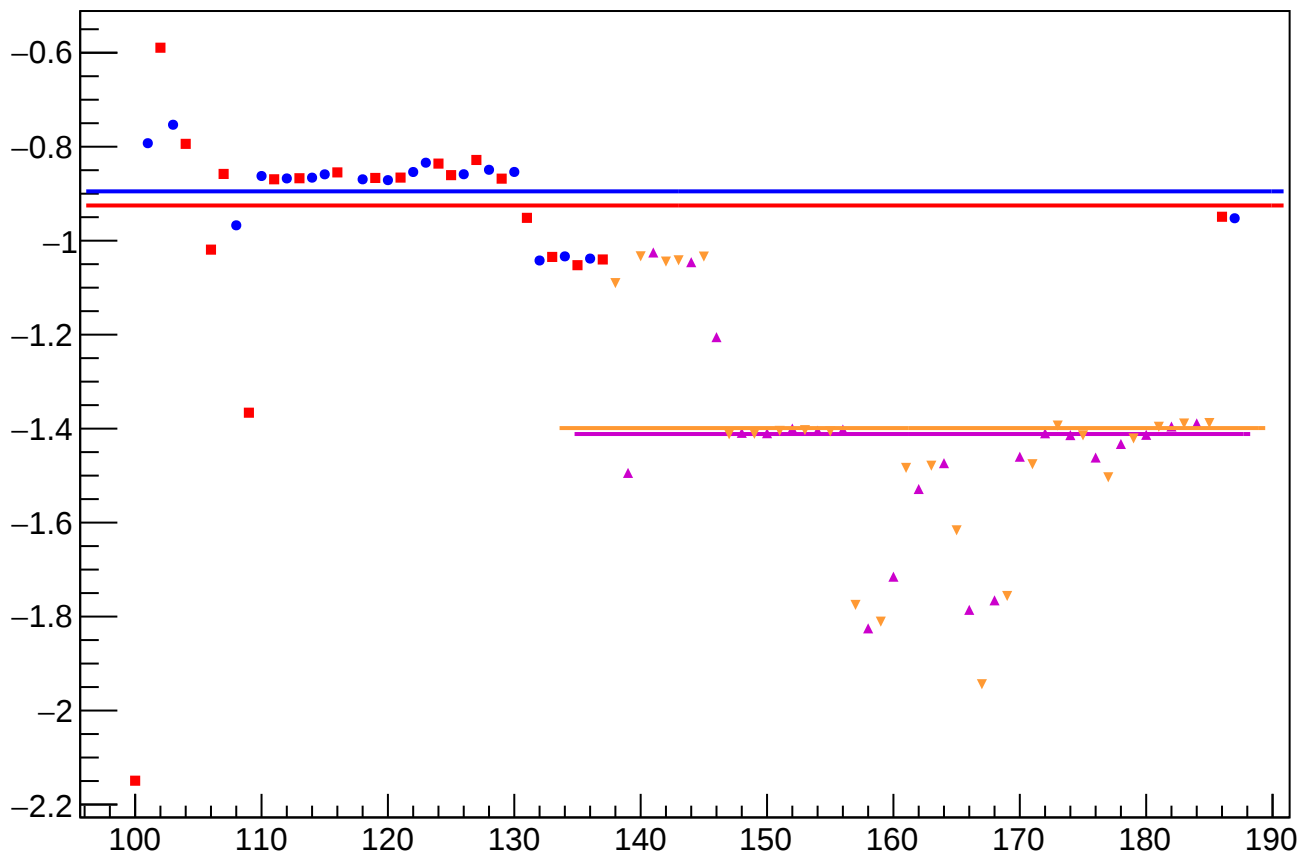
Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 4904495.5/42

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 10292907.7/85

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 5378061.5/42

yield_bpm12X_mean vs Slug



Right In: -0.895+/-0.000 χ^2/NDF : 37893729.7/17

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.925+/-0.000 χ^2/NDF : 128528123.6/19

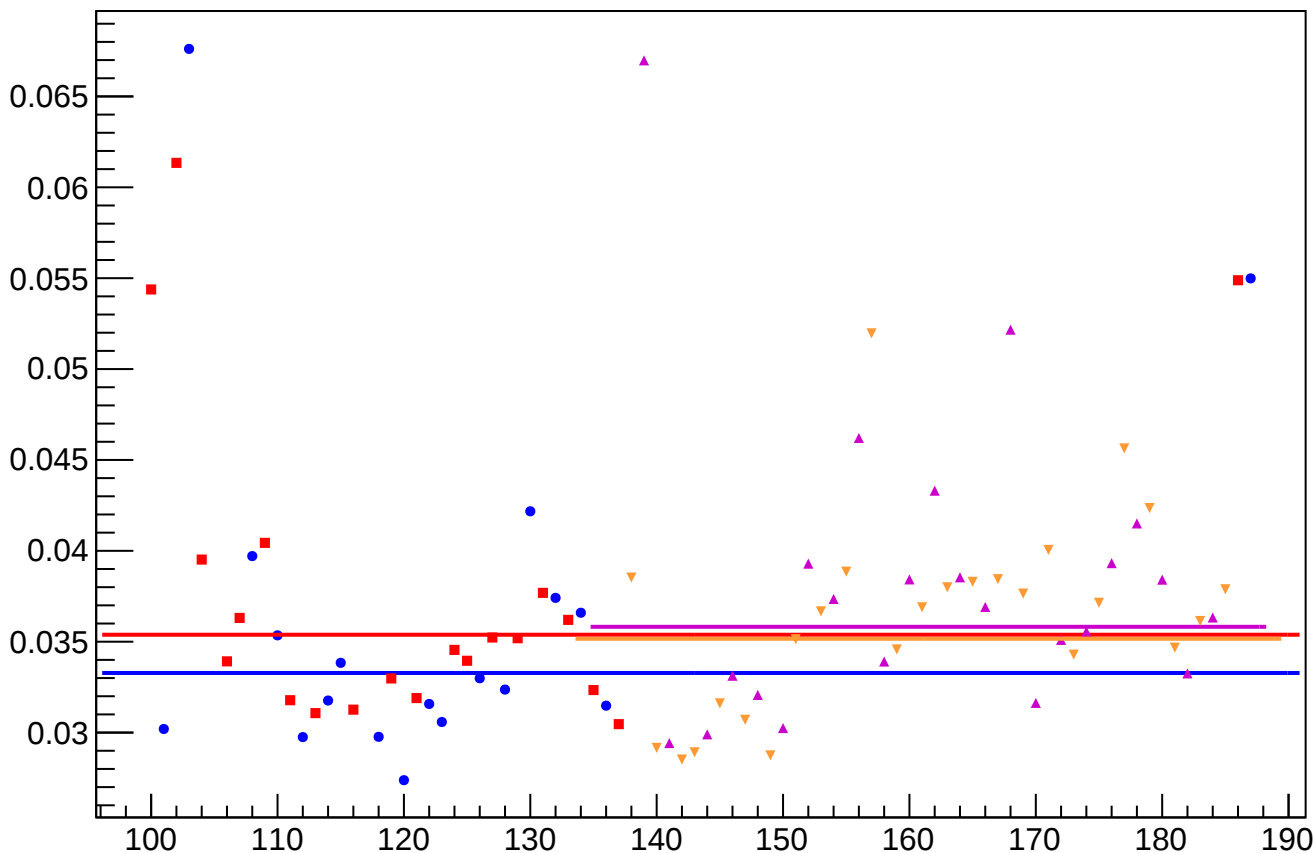
Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

+ sign -1.251+/-0.000 χ^2/NDF : 1742817506.3/42

All: -1.257+/-0.000 χ^2/NDF : 3236338521.2/8

- sign -1.264+/-0.000 χ^2/NDF : 1491864271.5/42

yield_bpm12X_rms vs Slug



Right In: 0.033+/-0.000 χ^2/NDF : 454058.3/17

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.035+/-0.000 χ^2/NDF : 369422.4/19

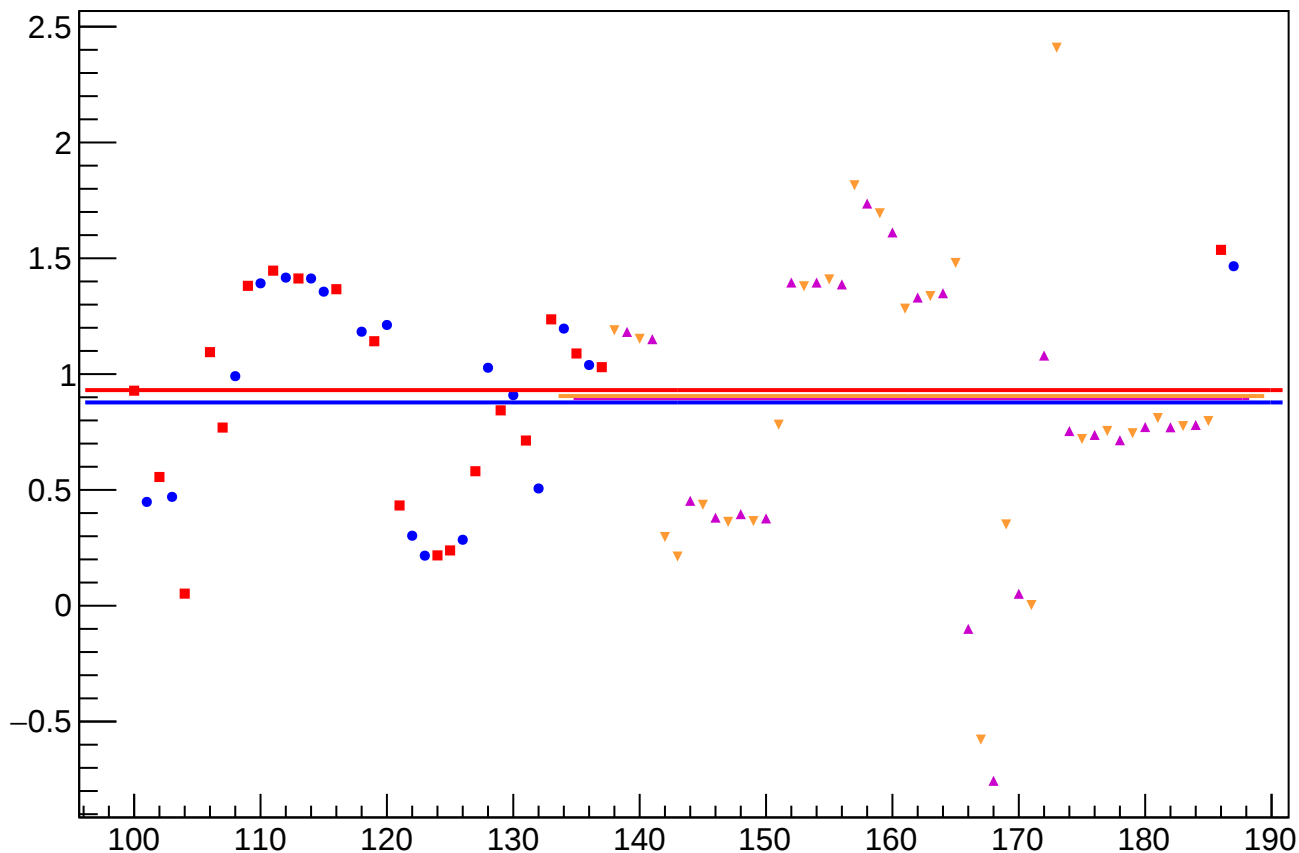
Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

+ sign 0.035+/-0.000 χ^2/NDF : 1076234.1/42

All: 0.035+/-0.000 χ^2/NDF : 2331780.9/85

- sign 0.036+/-0.000 χ^2/NDF : 1234939.8/42

yield_bpm12Y_mean vs Slug



Right In: 0.878 $\pm$ 0.000 χ^2 /NDF: 6505552146.8/17

Left Out: 0.905 $\pm$ 0.000 χ^2 /NDF: 84265726513.8/24

Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 9966582338.2/19

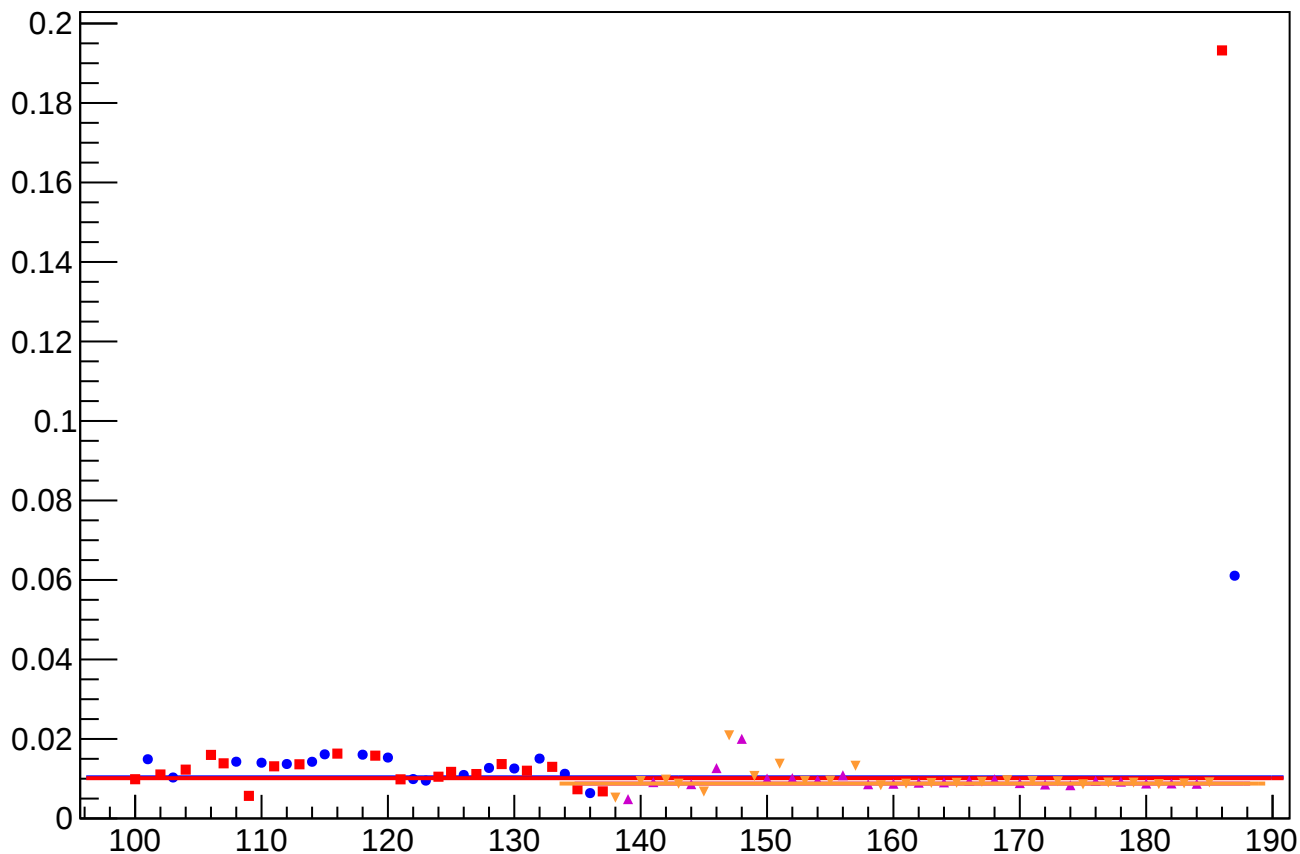
Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

+ sign 0.900 $\pm$ 0.000 χ^2 /NDF: 90803593702.6/42

All: 0.902 $\pm$ 0.000 χ^2 /NDF: 167420085528.6

- sign 0.904 $\pm$ 0.000 χ^2 /NDF: 76614516124.5/42

yield_bpm12Y_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1423011.9/17

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1697568.1/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1806231.0/19

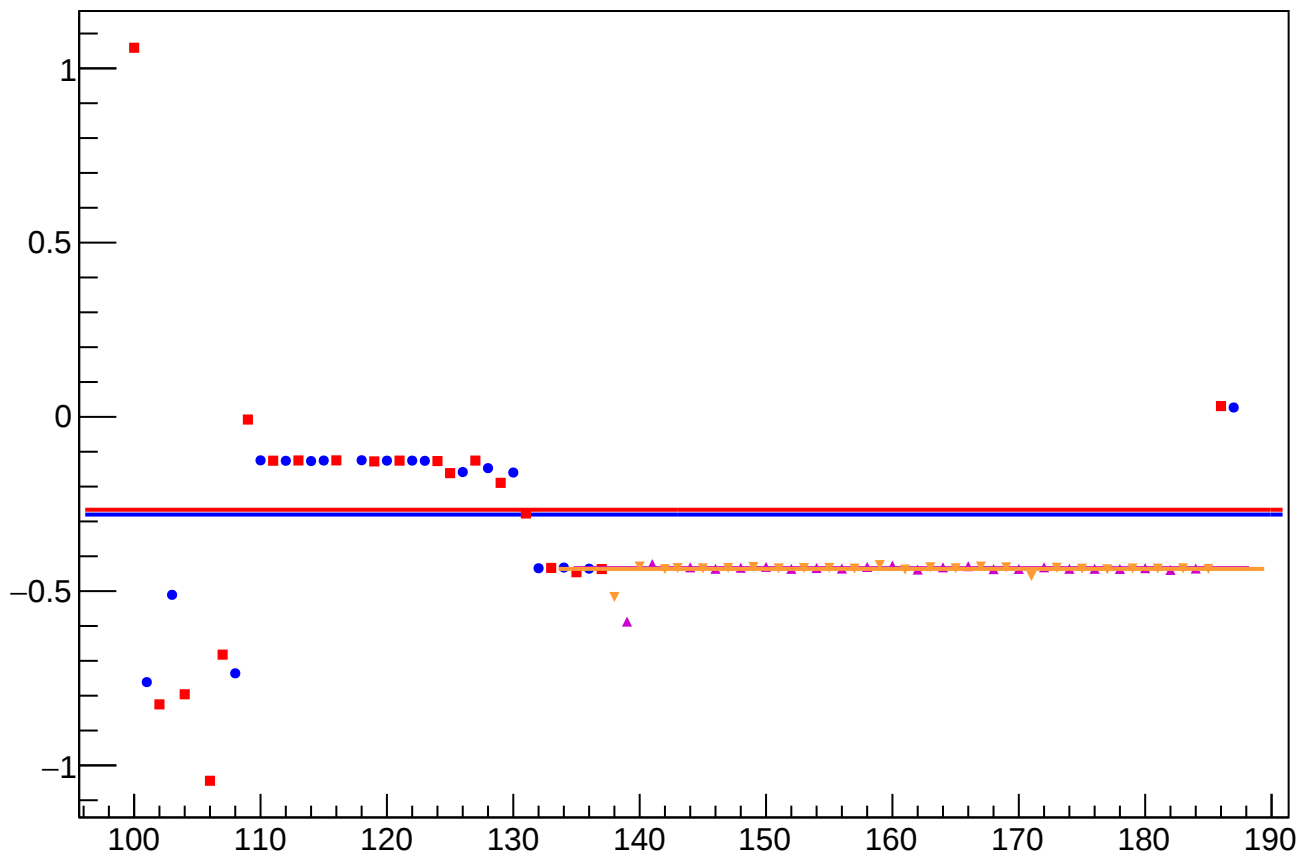
Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1607939.0/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 3329069.7/42

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 6907440.9/85

- sign 0.009 $\pm$ 0.000 χ^2 /NDF: 3578318.9/42

yield_bpm16X_mean vs Slug



Right In: -0.280 ± 0.000 χ^2/NDF : 913314811.6/17

Left Out: -0.436 ± 0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.266 ± 0.000 χ^2/NDF : 985140062.2/19

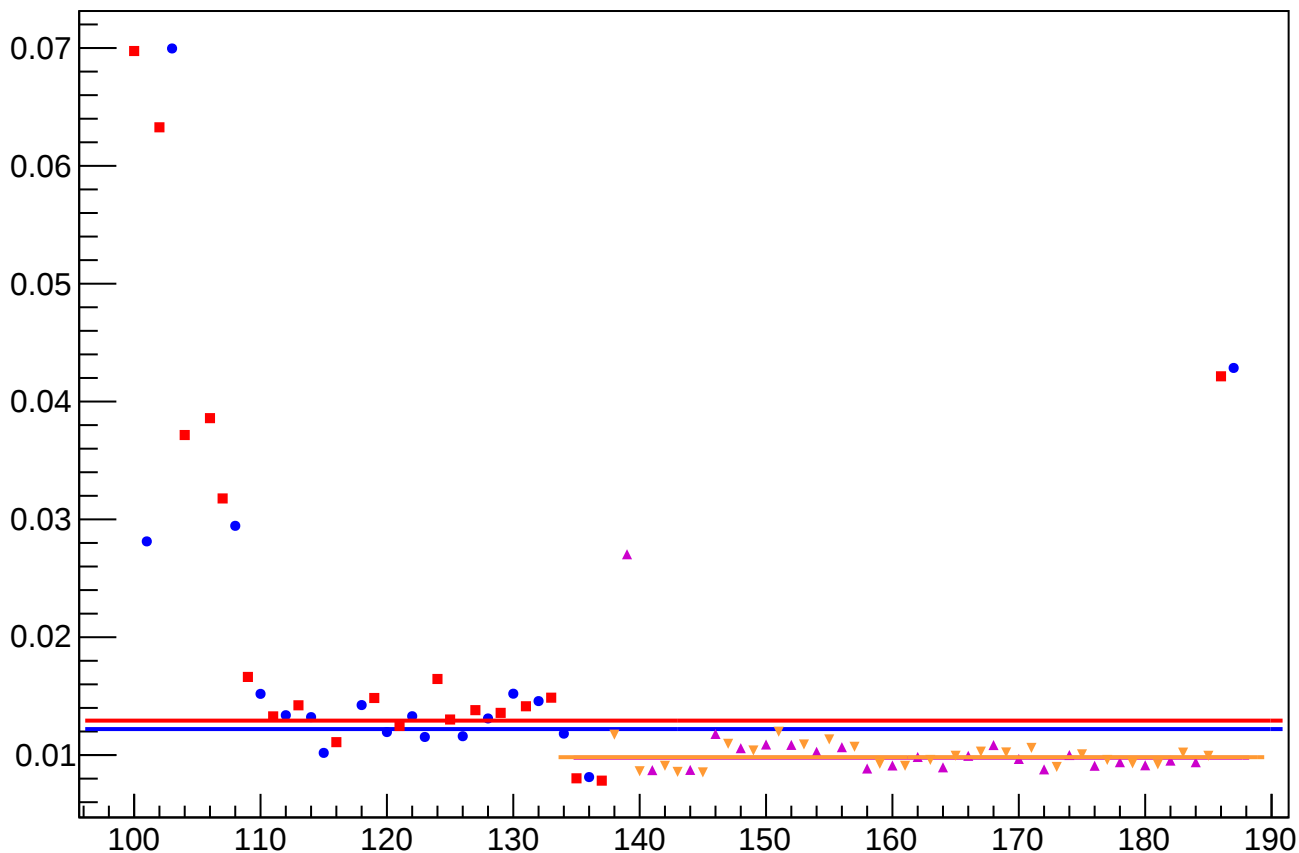
Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

+ sign -0.410 ± 0.000 χ^2/NDF : 1592613776.8/42

All: -0.409 ± 0.000 χ^2/NDF : 3307352707.2/8

- sign -0.406 ± 0.000 χ^2/NDF : 1713246613.2/42

yield_bpm16X_rms vs Slug



Right In: 0.012 ± 0.000 χ^2/NDF : 1873670.5/17

Left Out: 0.010 ± 0.000 χ^2/NDF : 269242.6/24

Right Out: 0.013 ± 0.000 χ^2/NDF : 2309034.6/19

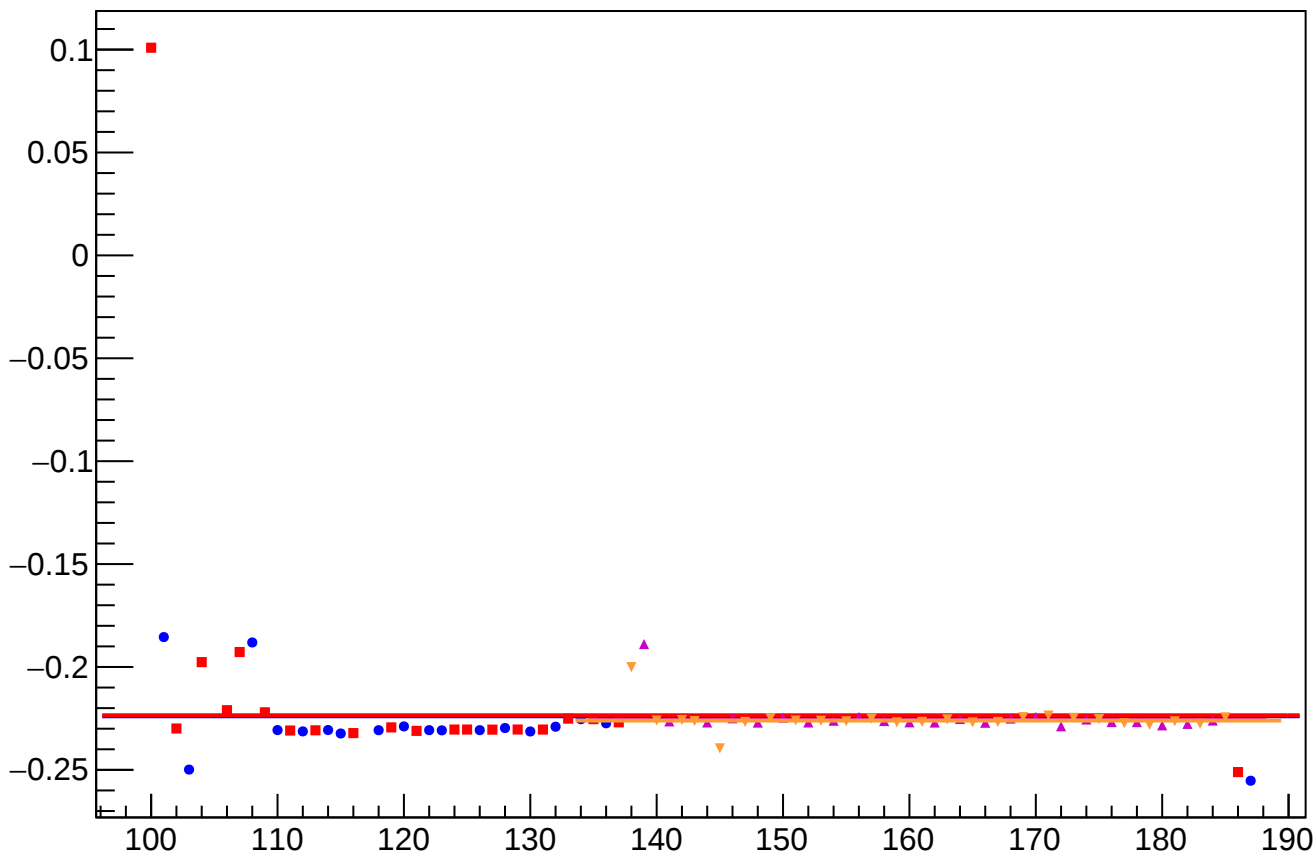
Left In: 0.010 ± 0.000 χ^2/NDF : 747550.0/22

+ sign 0.010 ± 0.000 χ^2/NDF : 2447464.3/42

All: 0.010 ± 0.000 χ^2/NDF : 6002032.2/85

- sign 0.010 ± 0.000 χ^2/NDF : 3553399.8/42

yield_bpm16Y_mean vs Slug



Right In: -0.224+/-0.000 χ^2/NDF : 75483068.5/17

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.223+/-0.000 χ^2/NDF : 168017117.4/19

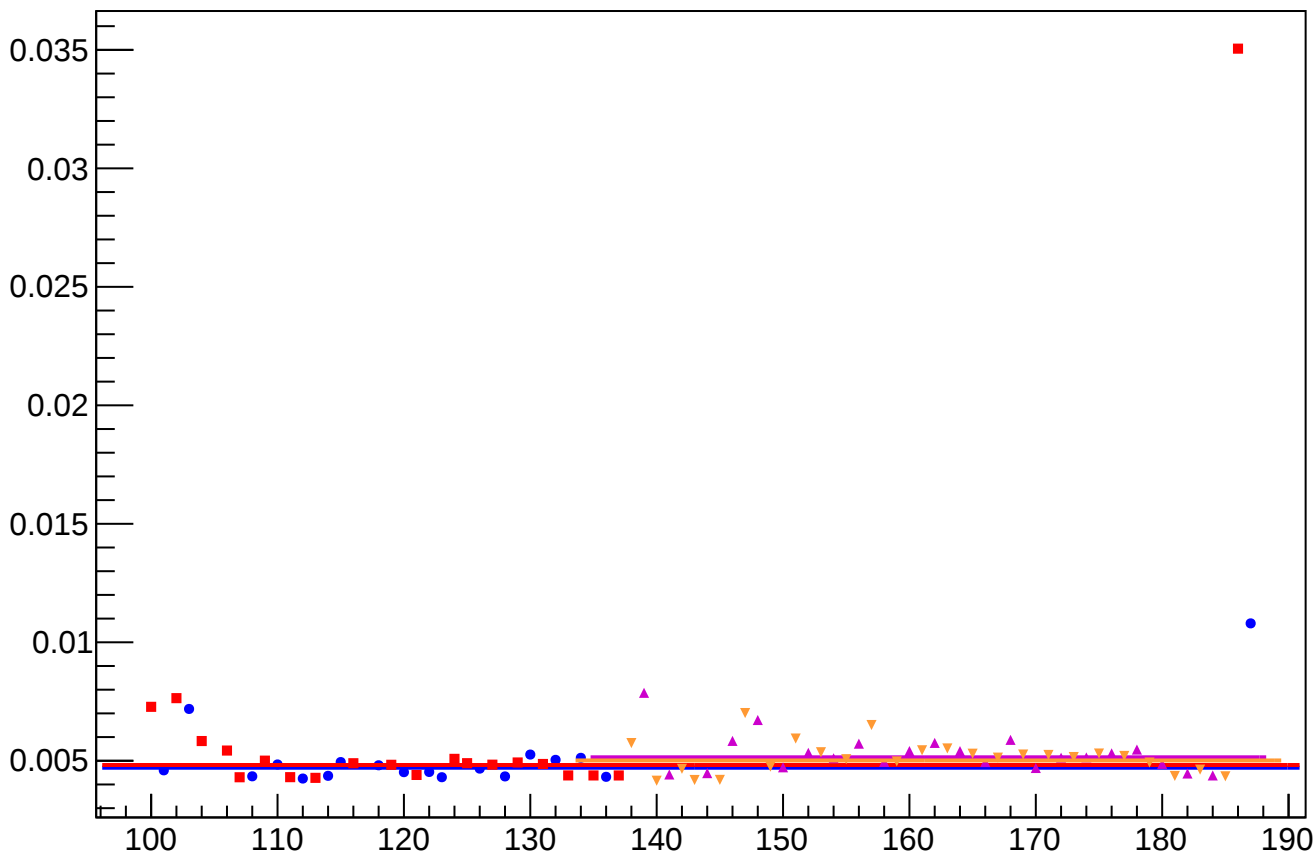
Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

+ sign -0.225+/-0.000 χ^2/NDF : 97529860.9/42

All: -0.225+/-0.000 χ^2/NDF : 281837724.6/85

- sign -0.225+/-0.000 χ^2/NDF : 184229982.4/42

yield_bpm16Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 269470.8/17

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 778162.2/19

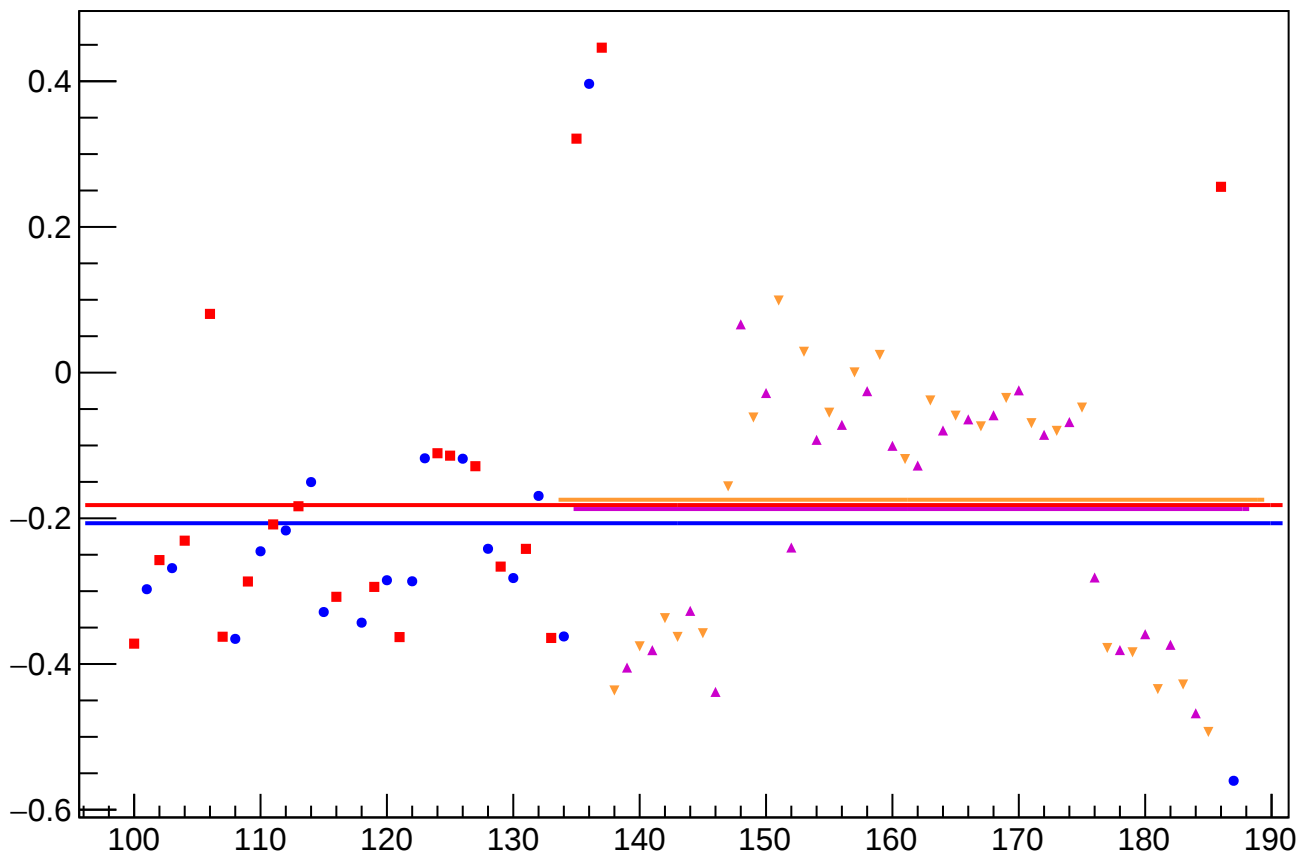
Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

+ sign 0.005+/-0.000 χ^2/NDF : 837067.6/42

All: 0.005+/-0.000 χ^2/NDF : 2162006.6/85

- sign 0.005+/-0.000 χ^2/NDF : 1311709.3/42

yield_bpm0i02X_mean vs Slug



Right In: -0.207+/-0.000 χ^2/NDF : 6310796669.5/17

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: -0.182+/-0.000 χ^2/NDF : 6474186876.8/19

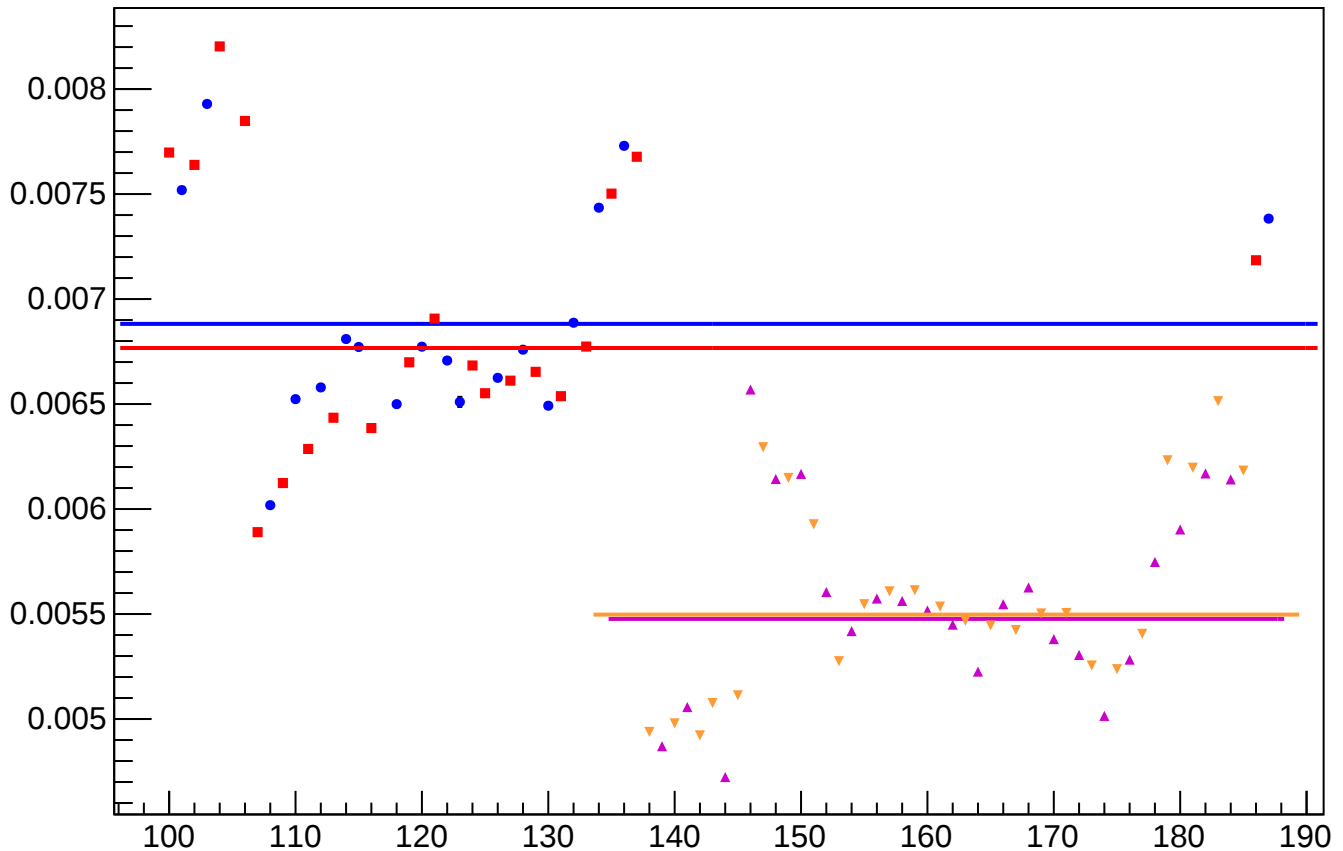
Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

+ sign -0.181+/-0.000 χ^2/NDF : 24454287814.5/42

All: -0.183+/-0.000 χ^2/NDF : 43758542150.5/42

- sign -0.186+/-0.000 χ^2/NDF : 19294461751.4/42

yield_bpm0i02X_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 80070.5/17

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:198746.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 108069.6/19

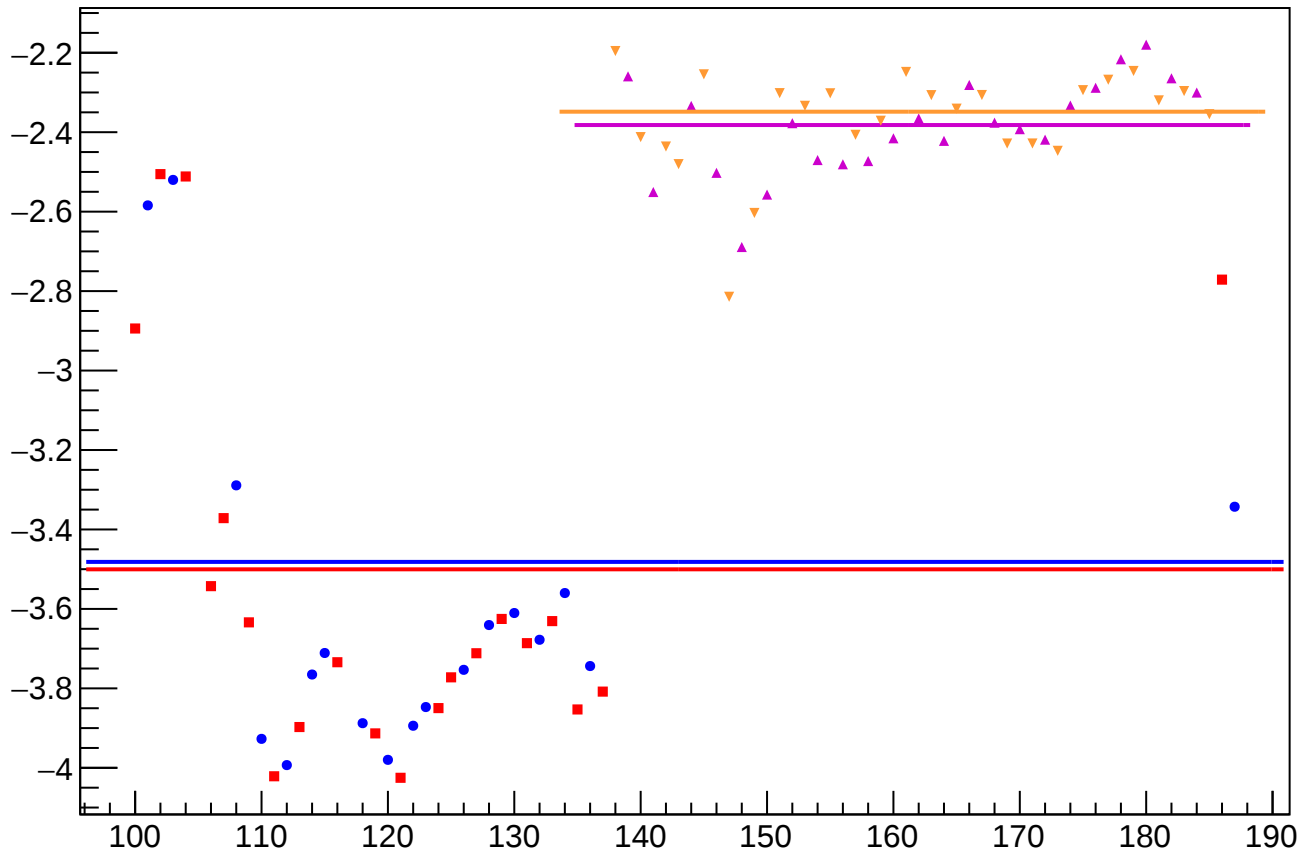
Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:202181.4/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 713779.5/42

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1431815.2/85

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 718026.6/42

yield_bpm0i02Y_mean vs Slug



Right In: -3.482 $\pm$ 0.000 χ^2 /NDF: 27176070797.1/17

Left Out: -2.348 $\pm$ 0.000 χ^2 /NDF: 2158686333.4/24

Right Out: -3.500 $\pm$ 0.000 χ^2 /NDF: 27982150950.8/19

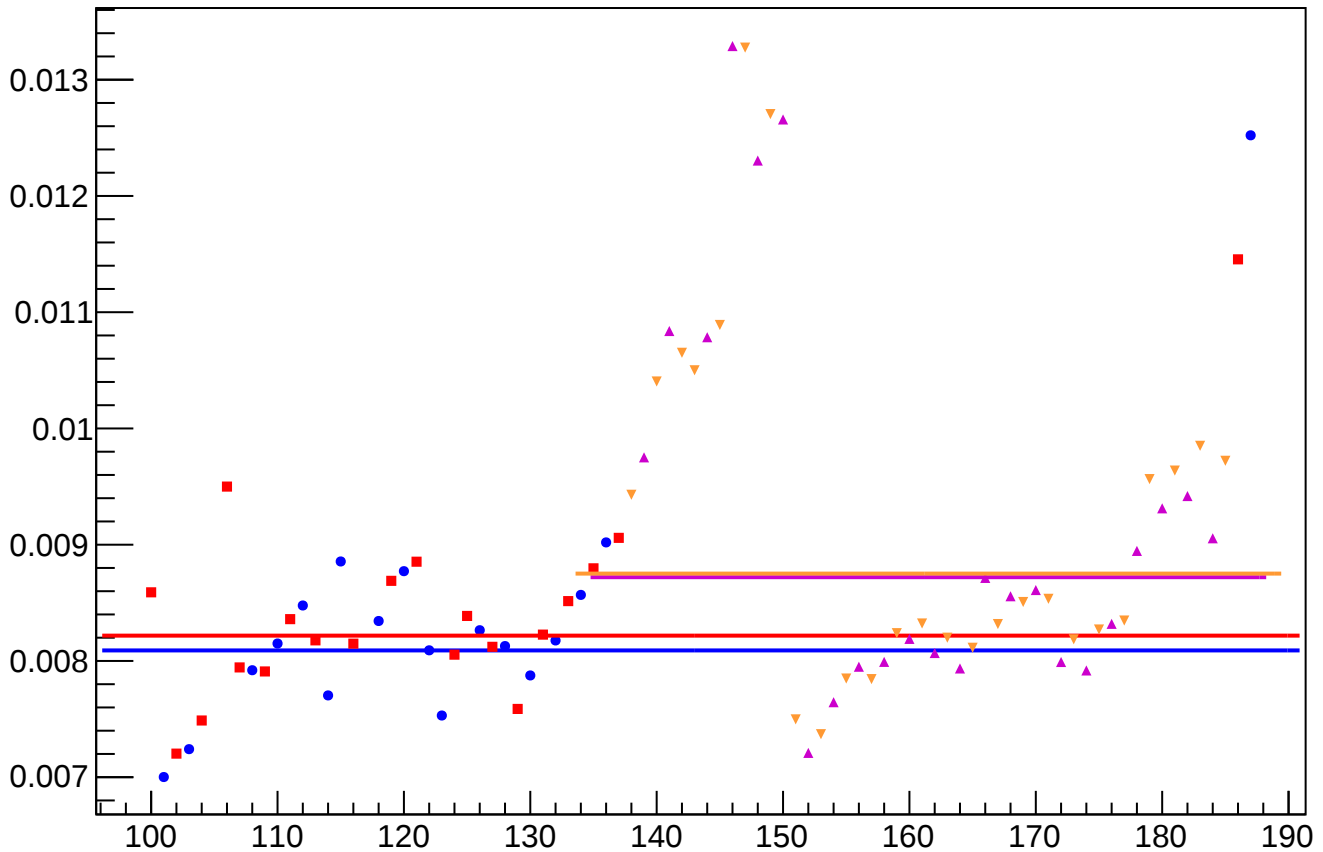
Left In: -2.382 $\pm$ 0.000 χ^2 /NDF: 2318395228.4/22

+ sign -2.700 $\pm$ 0.000 χ^2 /NDF: 118868910066.2/42

All: -2.725 $\pm$ 0.000 χ^2 /NDF: 237580884399.6

- sign -2.751 $\pm$ 0.000 χ^2 /NDF: 118291324876.7/42

yield_bpm0i02Y_rms vs Slug



Right In: 0.008 ± 0.000 χ^2/NDF : 109687.6/17

Left Out: 0.009 ± 0.000 χ^2/NDF : 663672.8/24

Right Out: 0.008 ± 0.000 χ^2/NDF : 118030.4/19

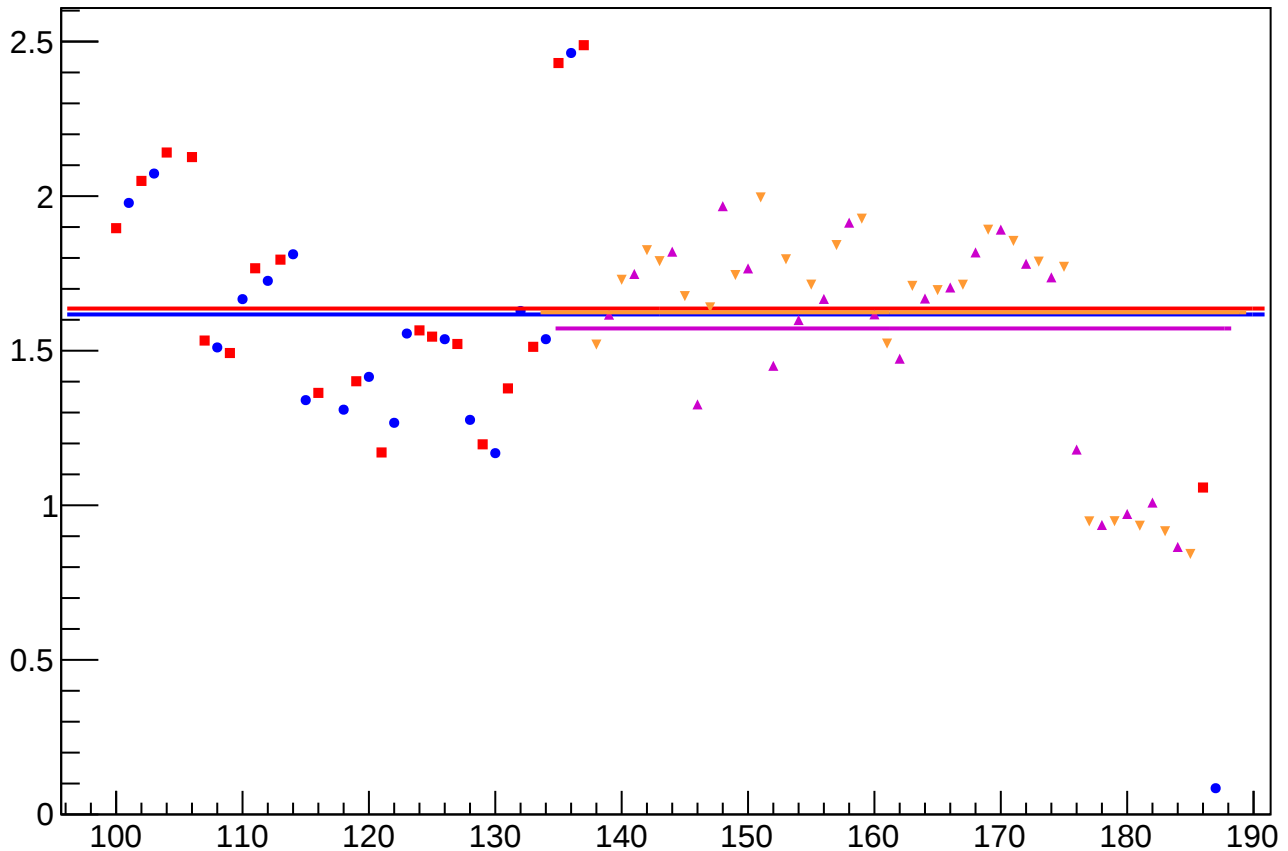
Left In: 0.009 ± 0.000 χ^2/NDF : 747867.0/22

+ sign 0.009 ± 0.000 χ^2/NDF : 834255.0/42

All: 0.009 ± 0.000 χ^2/NDF : 1735733.2/85

- sign 0.009 ± 0.000 χ^2/NDF : 901456.7/42

yield_bpm0i02aX_mean vs Slug



Right In: 1.617 $\pm$ 0.000 χ^2 /NDF: 8974952940.0/17

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.636 $\pm$ 0.000 χ^2 /NDF: 6693390100.6/19

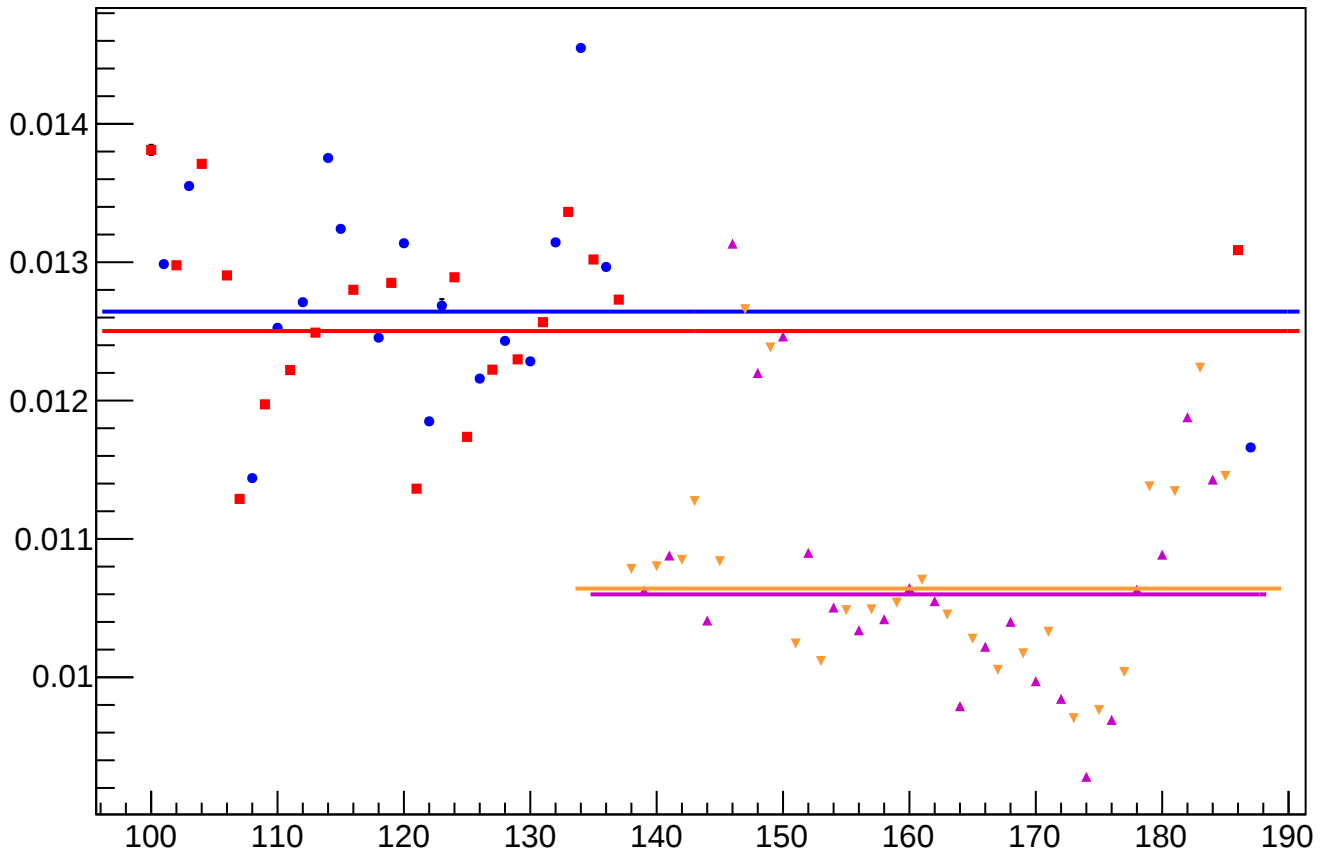
Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

+ sign 1.623 $\pm$ 0.000 χ^2 /NDF: 25607608013.9/42

All: 1.605 $\pm$ 0.000 χ^2 /NDF: 46799805697.1/8

- sign 1.587 $\pm$ 0.000 χ^2 /NDF: 21070029144.4/42

yield_bpm0i02aX_rms vs Slug



Right In: 0.013+/-0.000 χ^2/NDF : 33814.3/17

Left Out: 0.011+/-0.000 χ^2/NDF : 159760.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 40095.5/19

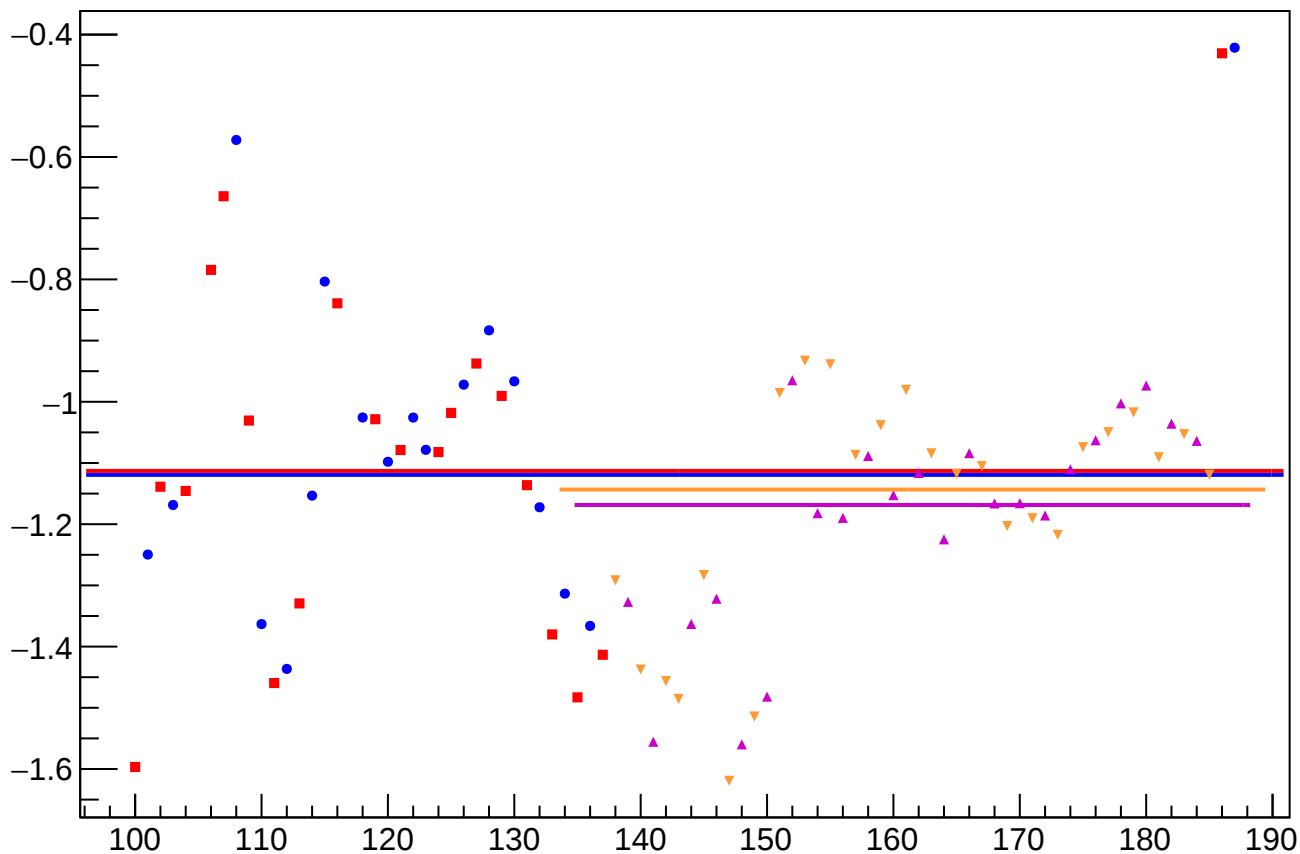
Left In: 0.011+/-0.000 χ^2/NDF : 204531.5/22

+ sign 0.011+/-0.000 χ^2/NDF : 457799.5/42

All: 0.011+/-0.000 χ^2/NDF : 957754.8/85

- sign 0.011+/-0.000 χ^2/NDF : 499932.7/42

yield_bpm0i02aY_mean vs Slug



Right In: -1.119 ± 0.000 χ^2/NDF : 3991483454.1/17

Left Out: -1.143 ± 0.000 χ^2/NDF : 7976364534.0/24

Right Out: -1.113 ± 0.000 χ^2/NDF : 4963804302.9/19

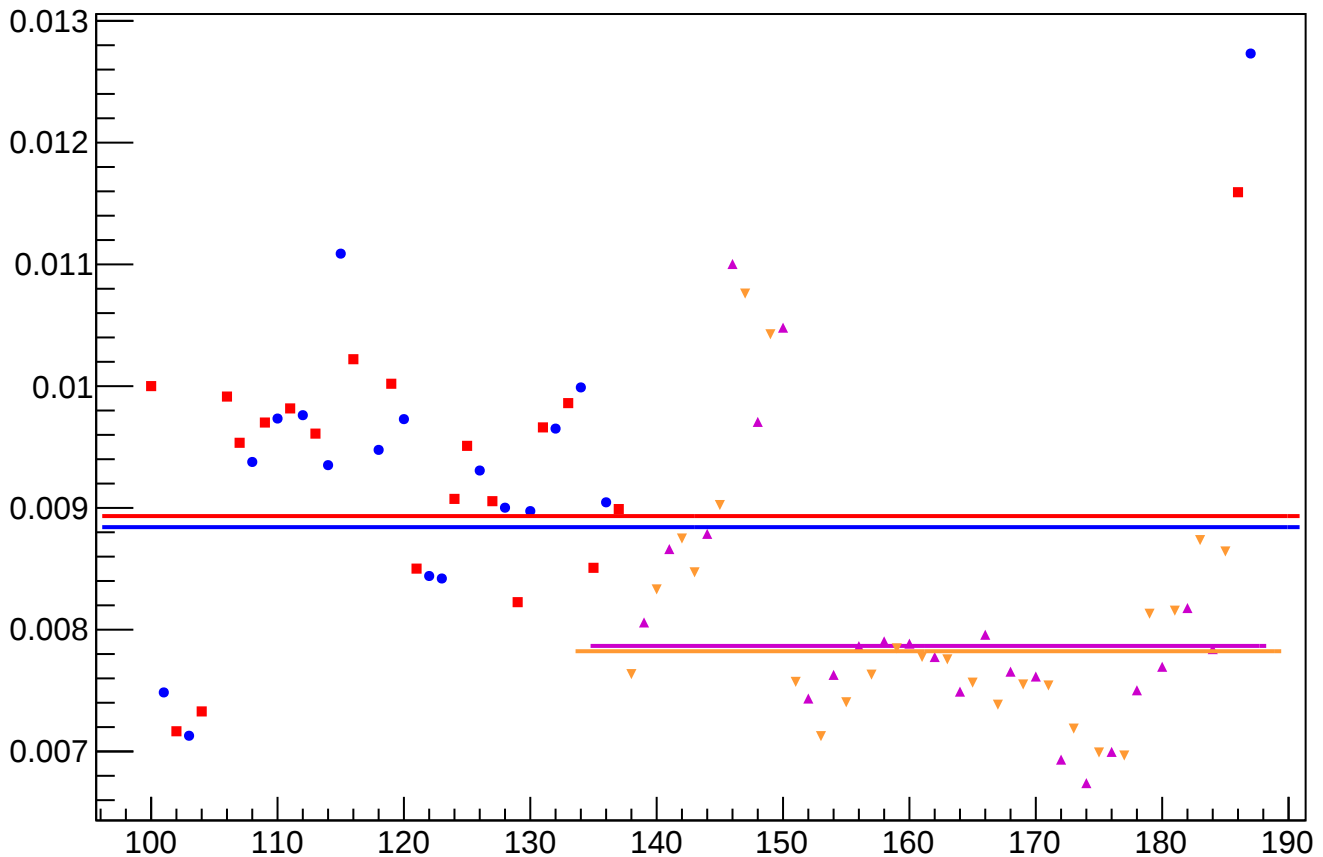
Left In: -1.169 ± 0.000 χ^2/NDF : 6362643368.6/22

+ sign -1.138 ± 0.000 χ^2/NDF : 12004805535.6/42

All: -1.146 ± 0.000 χ^2/NDF : 23583883932.7/

- sign -1.155 ± 0.000 χ^2/NDF : 11528661259.8/42

yield_bpm0i02aY_rms vs Slug



Right In: 0.009 $\pm$ 0.000 χ^2/NDF : 179183.5/17

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF :336387.6/24

Right Out: 0.009 $\pm$ 0.000 χ^2/NDF : 213184.7/19

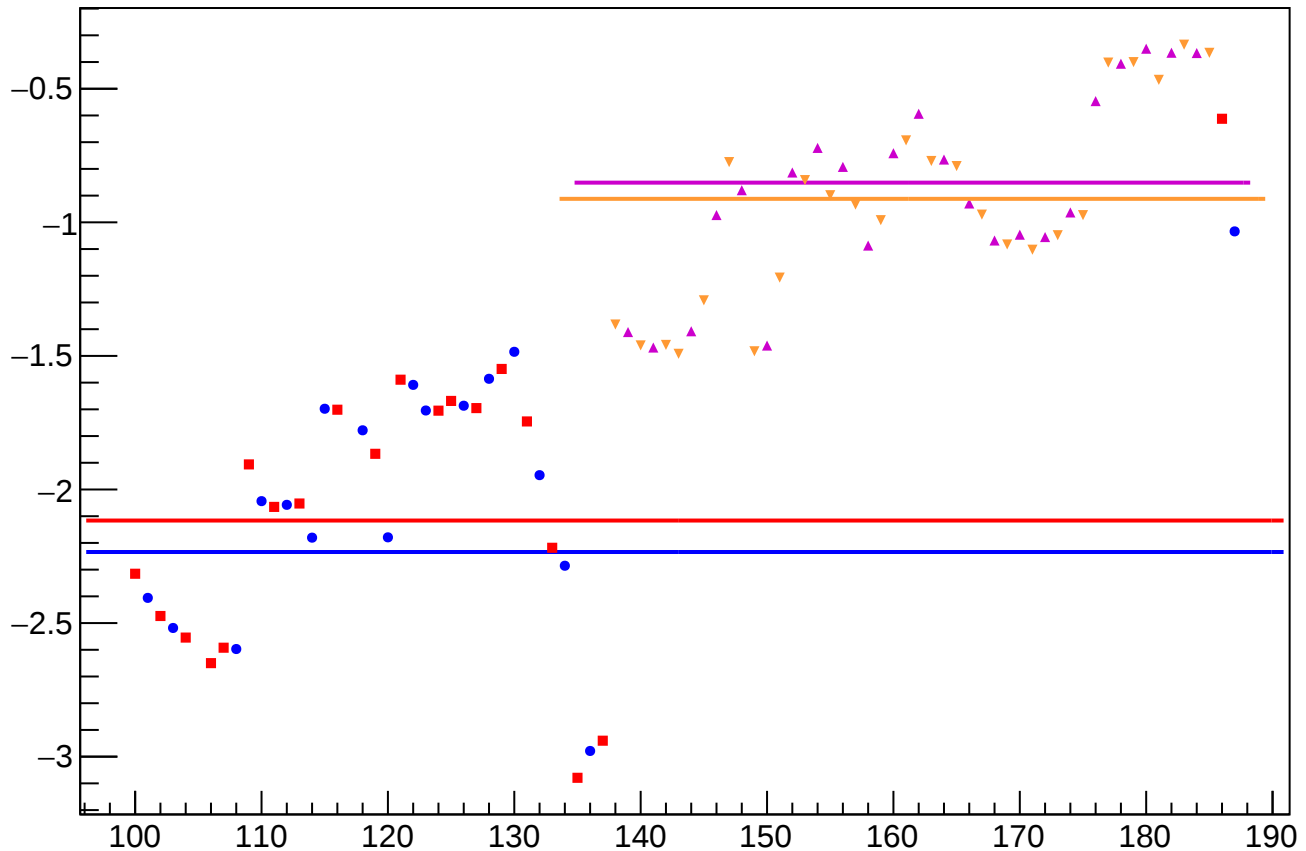
Left In: 0.008 $\pm$ 0.000 χ^2/NDF :379901.3/22

+ sign 0.008 $\pm$ 0.000 χ^2/NDF : 648453.4/42

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1391988.9/85

- sign 0.008 $\pm$ 0.000 χ^2/NDF : 741467.1/42

yield_bpm0i05X_mean vs Slug



Right In: -2.234+/-0.000 χ^2/NDF : 21308570046.7/17

Left Out: -0.912+/-0.000 χ^2/NDF : 49039425818.1/24

Right Out: -2.116+/-0.000 χ^2/NDF : 44694206974.7/19

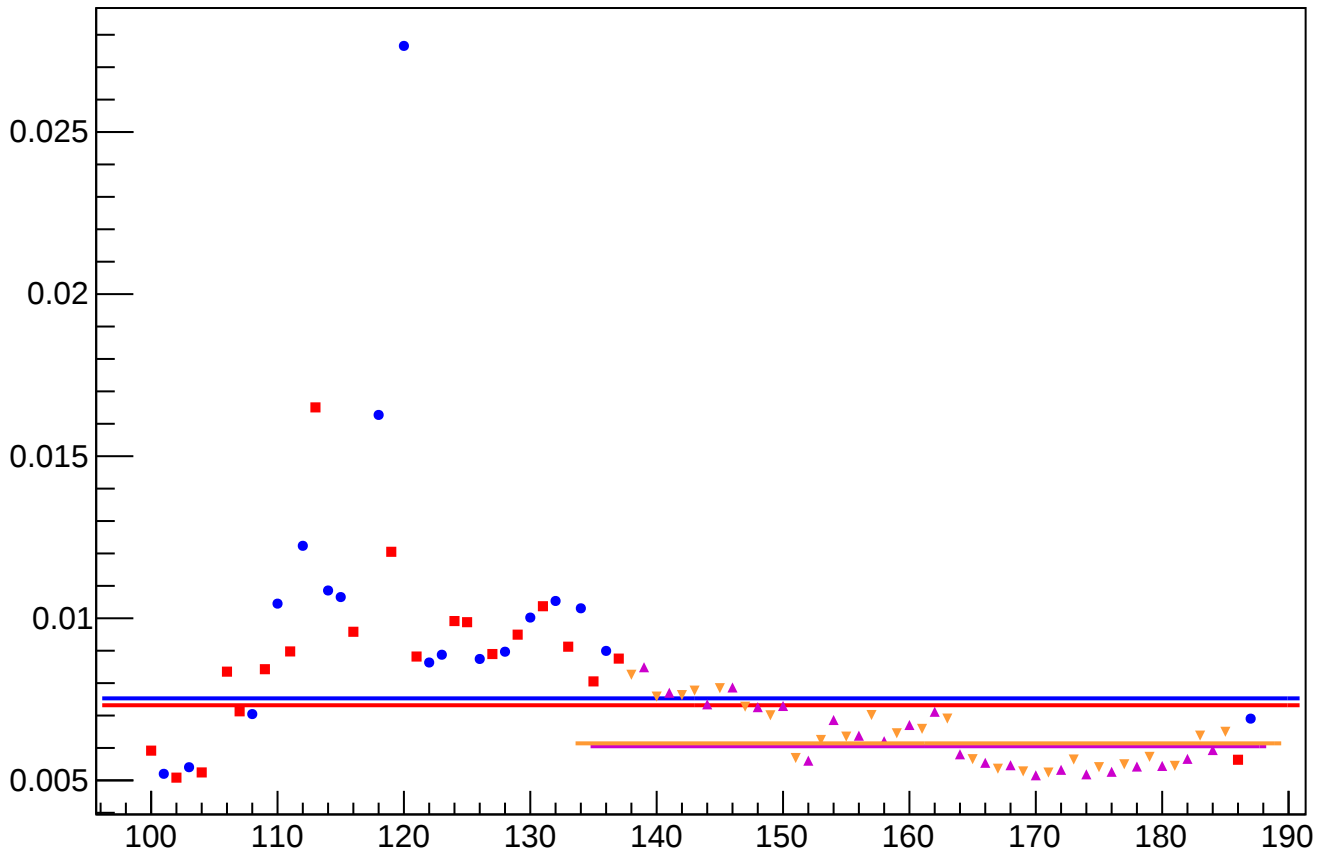
Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

+ sign -1.136+/-0.000 χ^2/NDF : 202054907092.8/42

All: -1.121+/-0.000 χ^2/NDF : 433755065588.1

- sign -1.107+/-0.000 χ^2/NDF : 231468190255.5/42

yield_bpm0i05X_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1217296.6/17

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 637765.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 990259.9/19

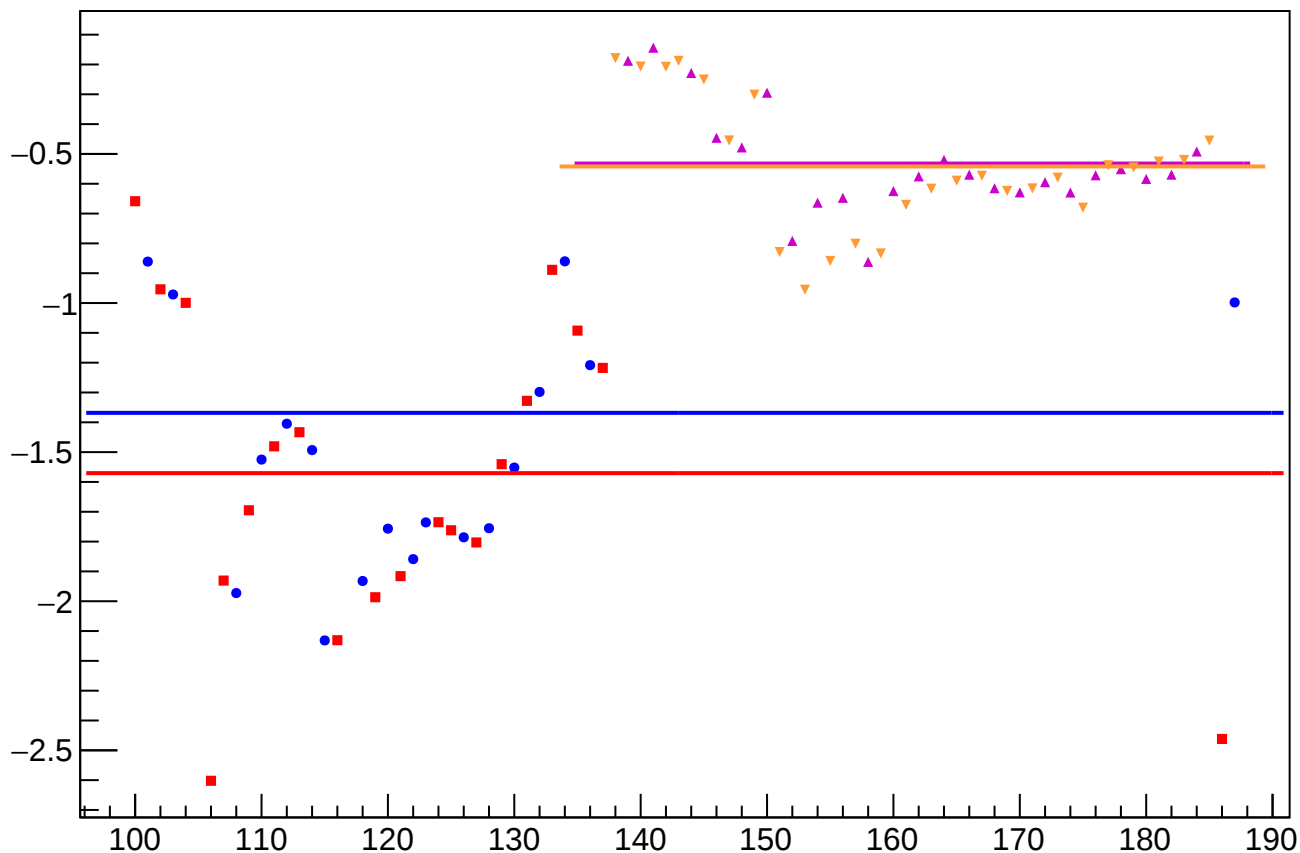
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF: 697577.8/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 2145454.0/42

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 4116631.0/85

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1968574.3/42

yield_bpm0i05Y_mean vs Slug



Right In: -1.368+/-0.000 χ^2/NDF : 20480925641.8/17

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.570+/-0.000 χ^2/NDF : 52171143578.1/19

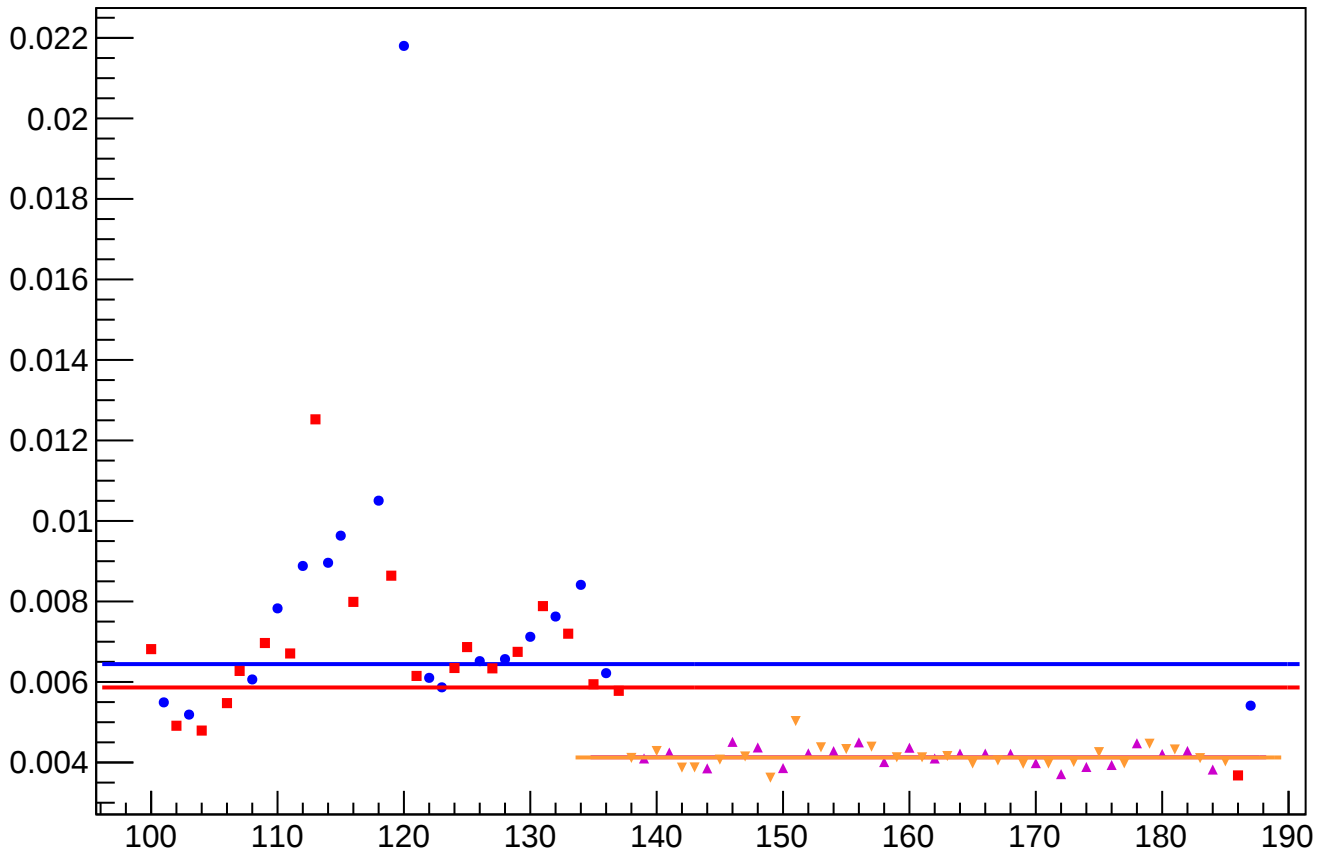
Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

+ sign -0.640+/-0.000 χ^2/NDF : 148006131989.1/42

All: -0.668+/-0.000 χ^2/NDF : 392580563540.8

- sign -0.697+/-0.000 χ^2/NDF : 242768330501.3/42

yield_bpm0i05Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 578944.0/17

Left Out: 0.004+/-0.000 χ^2/NDF : 113033.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 689554.8/19

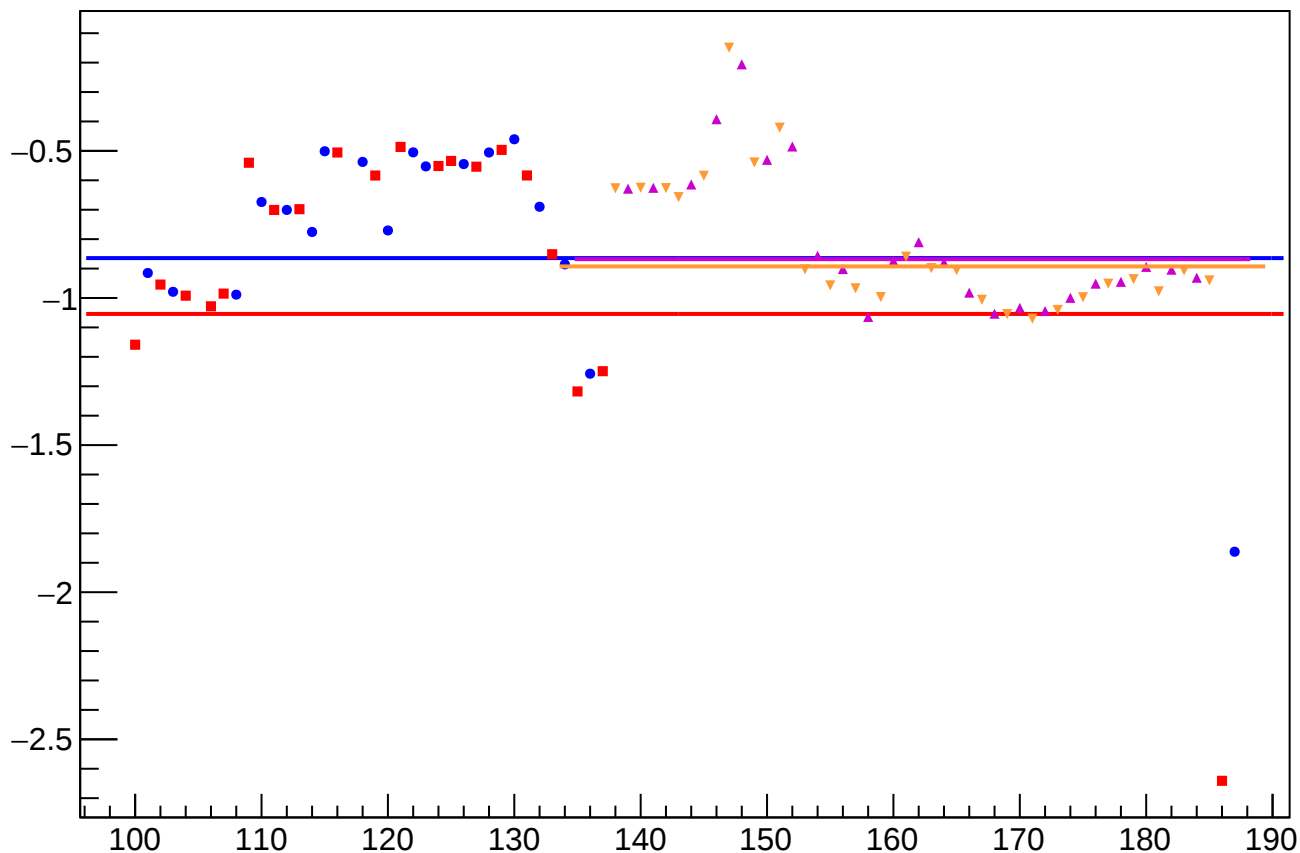
Left In: 0.004+/-0.000 χ^2/NDF : 93111.2/22

+ sign 0.004+/-0.000 χ^2/NDF : 1956597.2/42

All: 0.004+/-0.000 χ^2/NDF : 3630942.8/85

- sign 0.004+/-0.000 χ^2/NDF : 1674317.2/42

yield_bpm0i07X_mean vs Slug



Right In: -0.864+/-0.000 χ^2/NDF : 23939465426.5/17

Left Out: -0.893+/-0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.054+/-0.000 χ^2/NDF : 114925443180.0/19

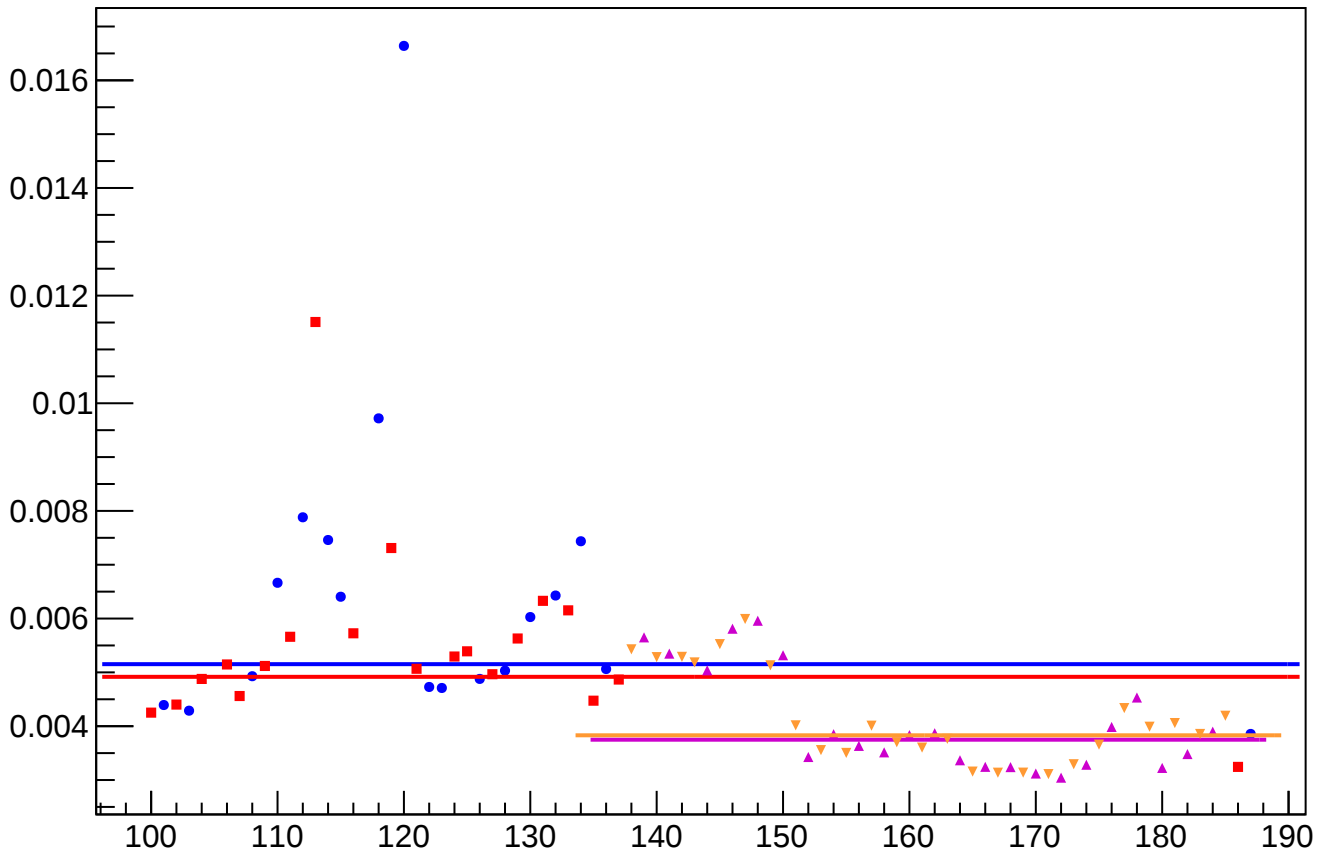
Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

+ sign -0.888+/-0.000 χ^2/NDF : 64865094726.0/42

All: -0.896+/-0.000 χ^2/NDF : 230985793039.2

- sign -0.903+/-0.000 χ^2/NDF : 165981246169.3/42

yield_bpm0i07X_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 696013.3/17

Left Out: 0.004+/-0.000 χ^2/NDF : 1179801.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 577953.5/19

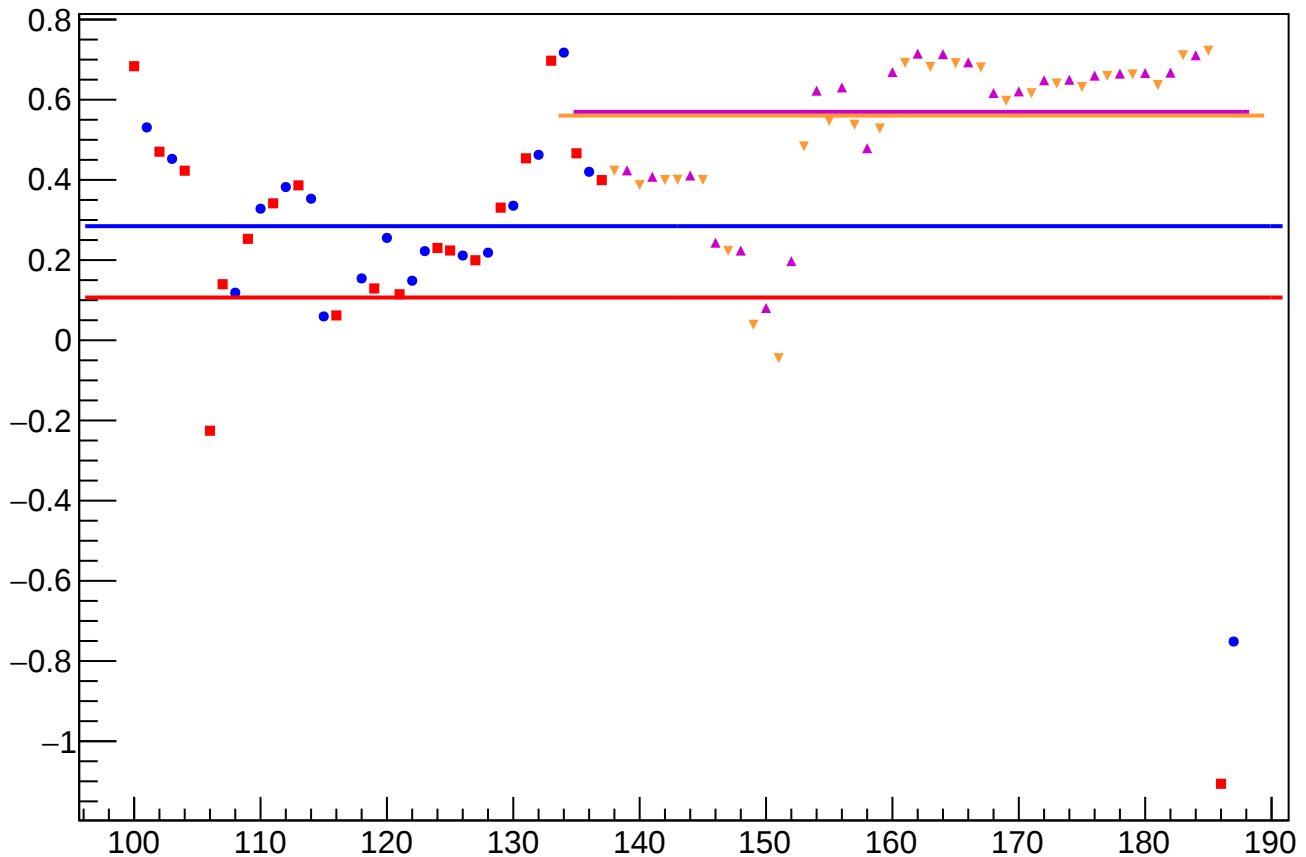
Left In: 0.004+/-0.000 χ^2/NDF : 1288490.4/22

+ sign 0.004+/-0.000 χ^2/NDF : 2482357.4/42

All: 0.004+/-0.000 χ^2/NDF : 4922120.2/85

- sign 0.004+/-0.000 χ^2/NDF : 2433480.7/42

yield_bpm0i07Y_mean vs Slug



Right In: 0.285 $\pm$ 0.000 χ^2 /NDF: 32757932635.6/17

Left Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 45205806387.2/24

Right Out: 0.107 $\pm$ 0.000 χ^2 /NDF: 139125417363.4/19

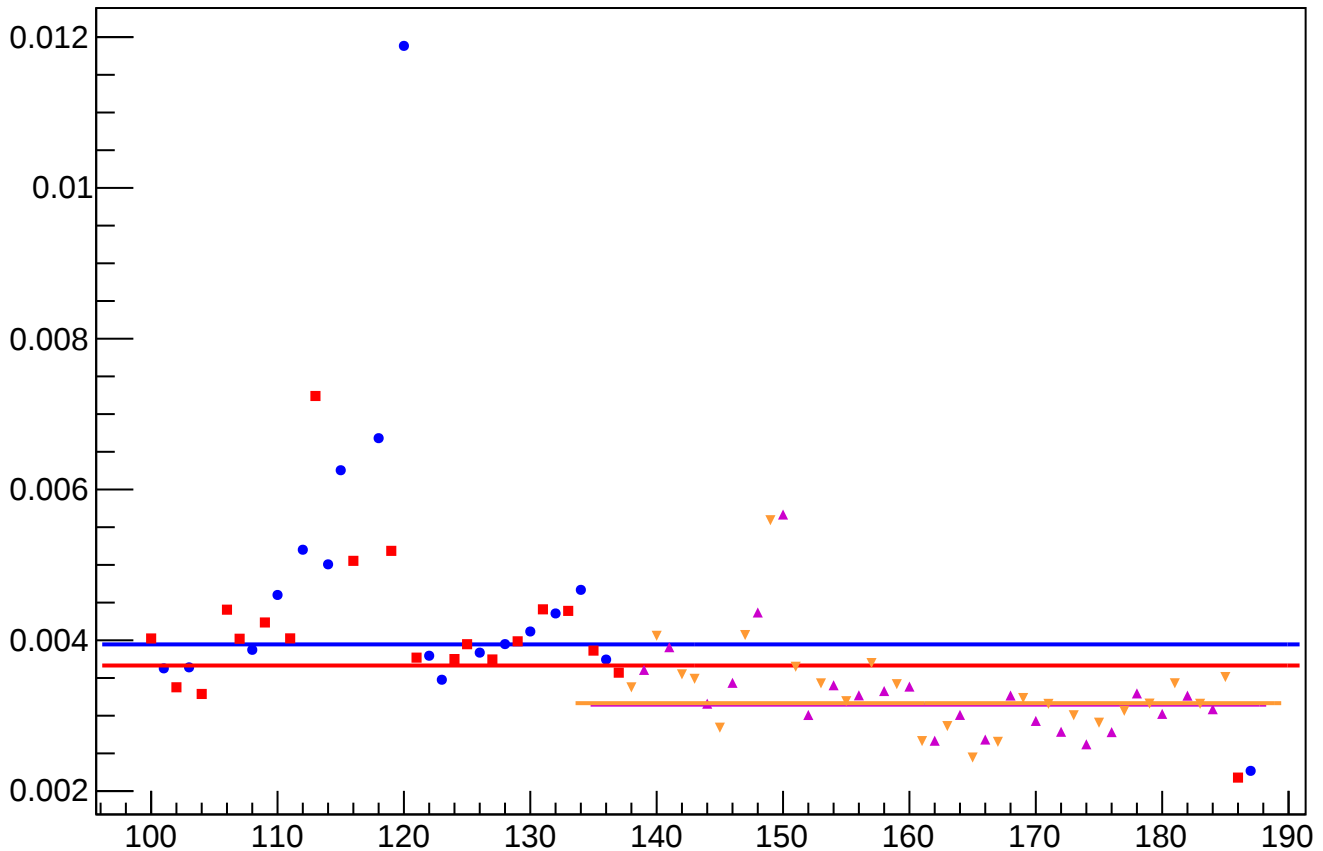
Left In: 0.570 $\pm$ 0.000 χ^2 /NDF: 42104067973.0/22

+ sign 0.509 $\pm$ 0.000 χ^2 /NDF: 100747357158.8/42

All: 0.486 $\pm$ 0.000 χ^2 /NDF: 360907301375.4

- sign 0.463 $\pm$ 0.000 χ^2 /NDF: 258024932060.3/42

yield_bpm0i07Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 586735.0/17

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 744886.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 641899.4/19

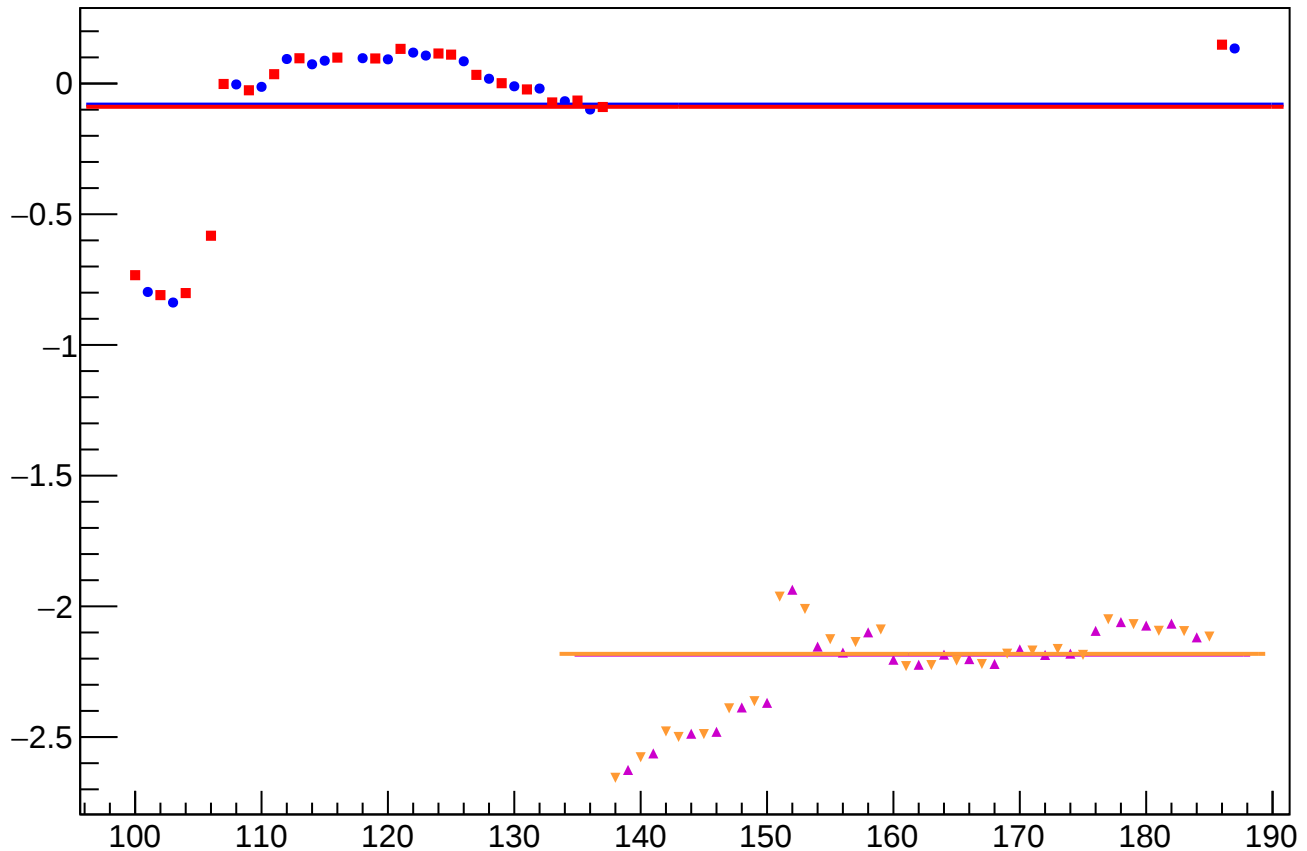
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 716402.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1695798.4/42

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3251273.0/85

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1551488.6/42

yield_bpm1i02X_mean vs Slug



Right In: -0.081 ± 0.000 χ^2/NDF : 5059249630.2/17

Left Out: -2.182 ± 0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.089 ± 0.000 χ^2/NDF : 5774327081.9/19

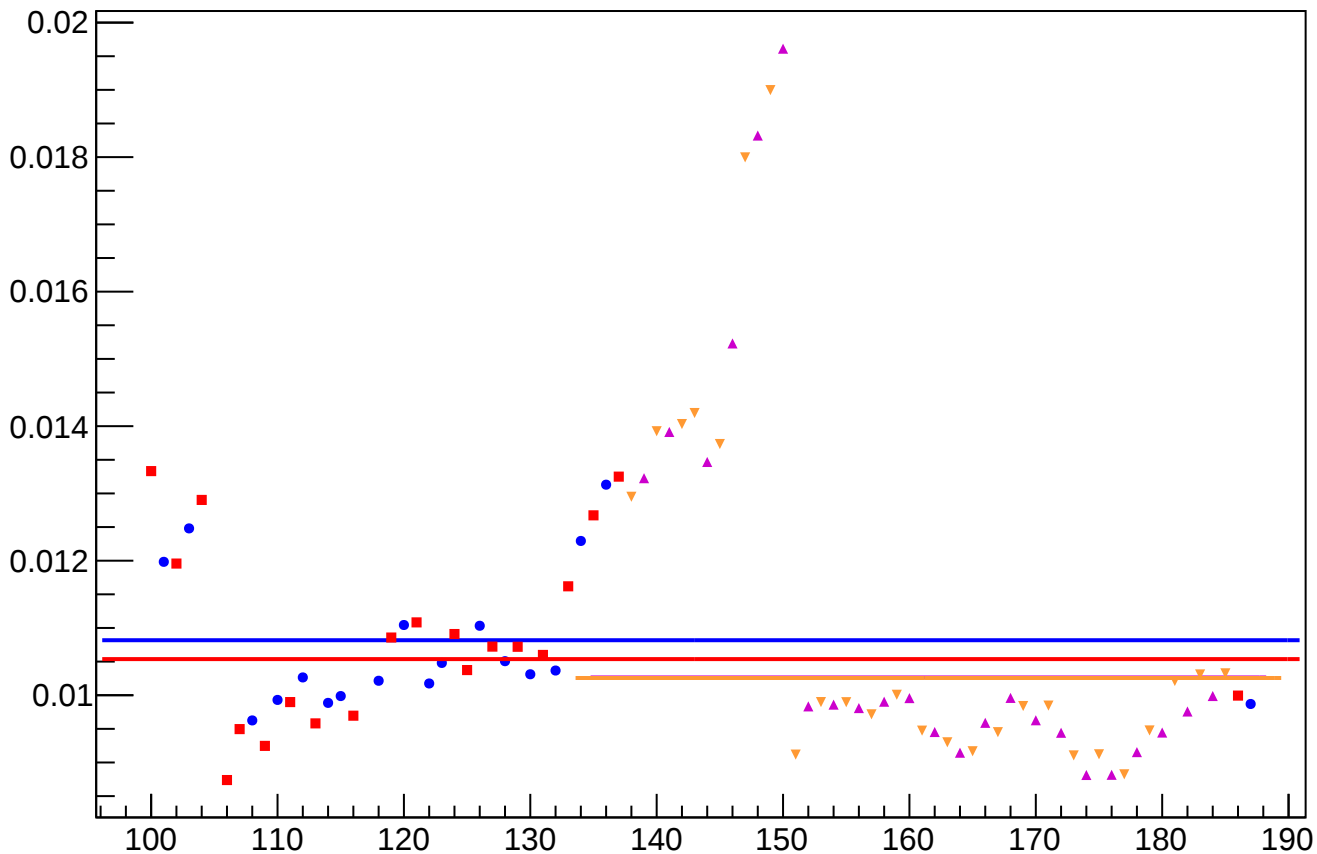
Left In: -2.185 ± 0.000 χ^2/NDF : 3372742534.3/22

+ sign -1.643 ± 0.000 χ^2/NDF : 198855528405.0/42

All: -1.603 ± 0.000 χ^2/NDF : 413785371165.7

- sign -1.563 ± 0.000 χ^2/NDF : 214207045941.1/42

yield_bpm1i02X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 127024.5/17

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 181126.8/19

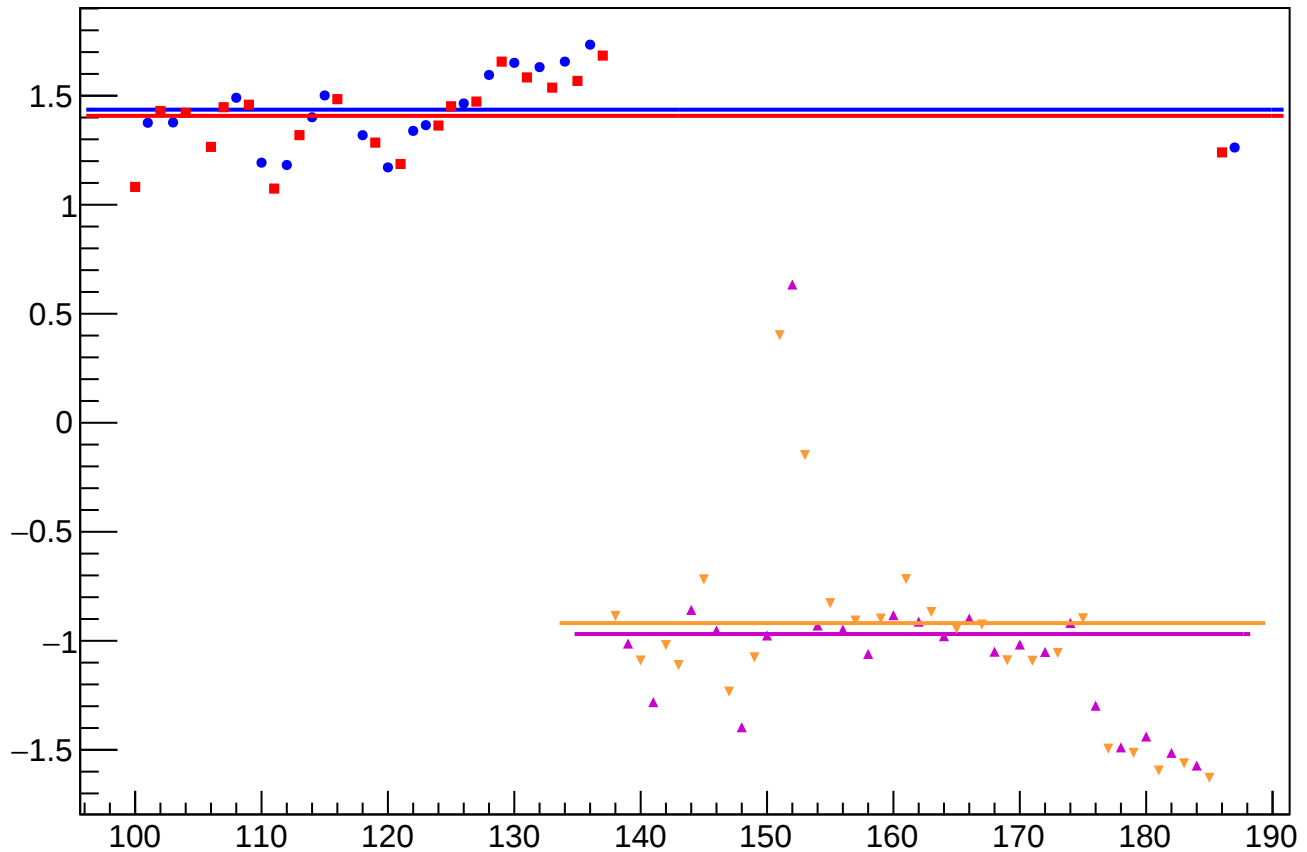
Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

+ sign 0.010+/-0.000 χ^2/NDF : 1424763.3/42

All: 0.010+/-0.000 χ^2/NDF : 2953763.0/85

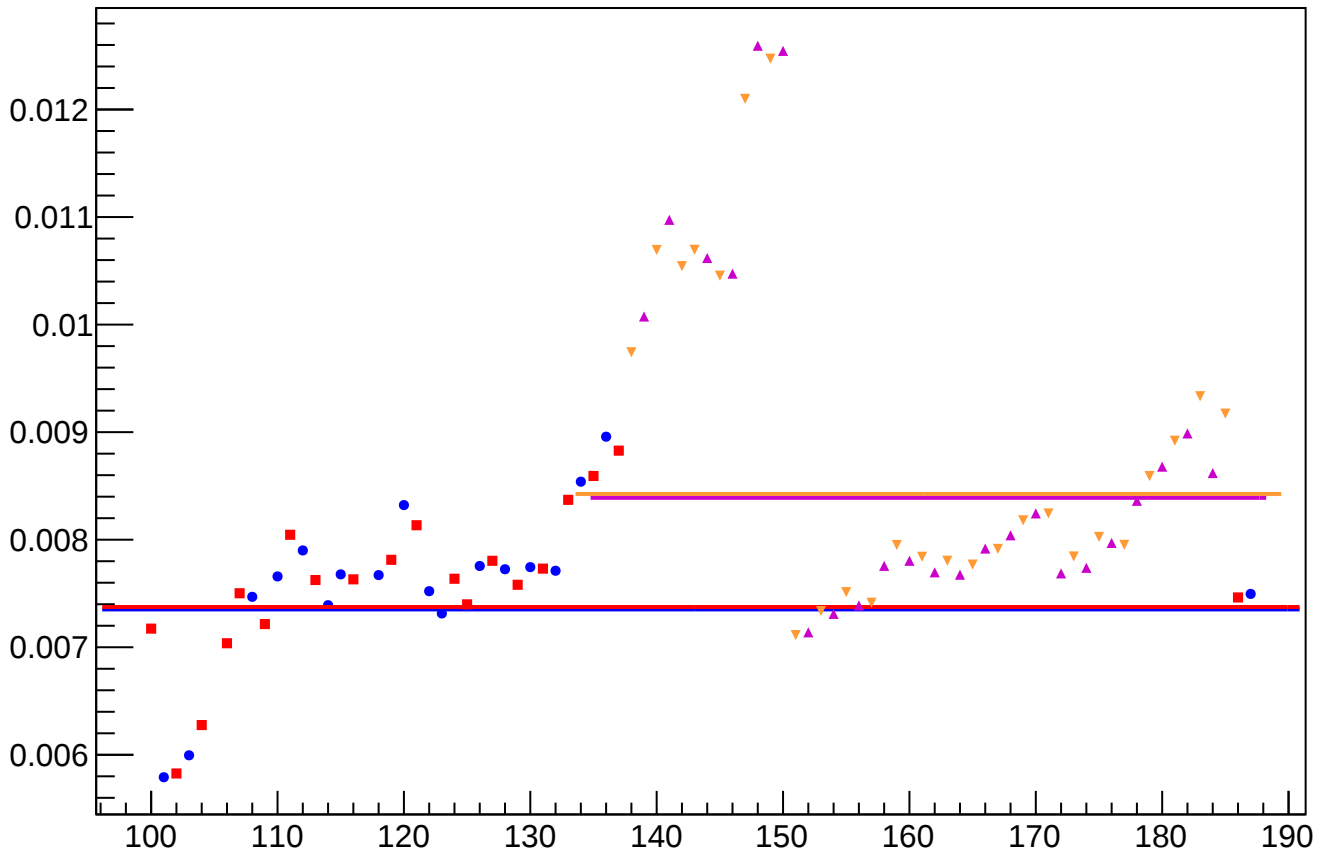
- sign 0.010+/-0.000 χ^2/NDF : 1528327.5/42

yield_bpm1i02Y_mean vs Slug



Right In: 1.436+/-0.000	χ^2/NDF : 3521911595.5/17	+ sign -0.142+/-0.000	χ^2/NDF : 520637350465.8/42
Left Out: -0.919+/-0.000	χ^2/NDF : 55622252895.8/24	All: -0.126+/-0.000	χ^2/NDF : 1067461175879
Right Out: 1.408+/-0.000	χ^2/NDF : 2870792047.3/19	- sign -0.110+/-0.000	χ^2/NDF : 546635698039.0/42
Left In: -0.969+/-0.000	χ^2/NDF : 54895002535.8/22		

yield_bpm1i02Y_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 228780.4/17

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 792337.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 172531.0/19

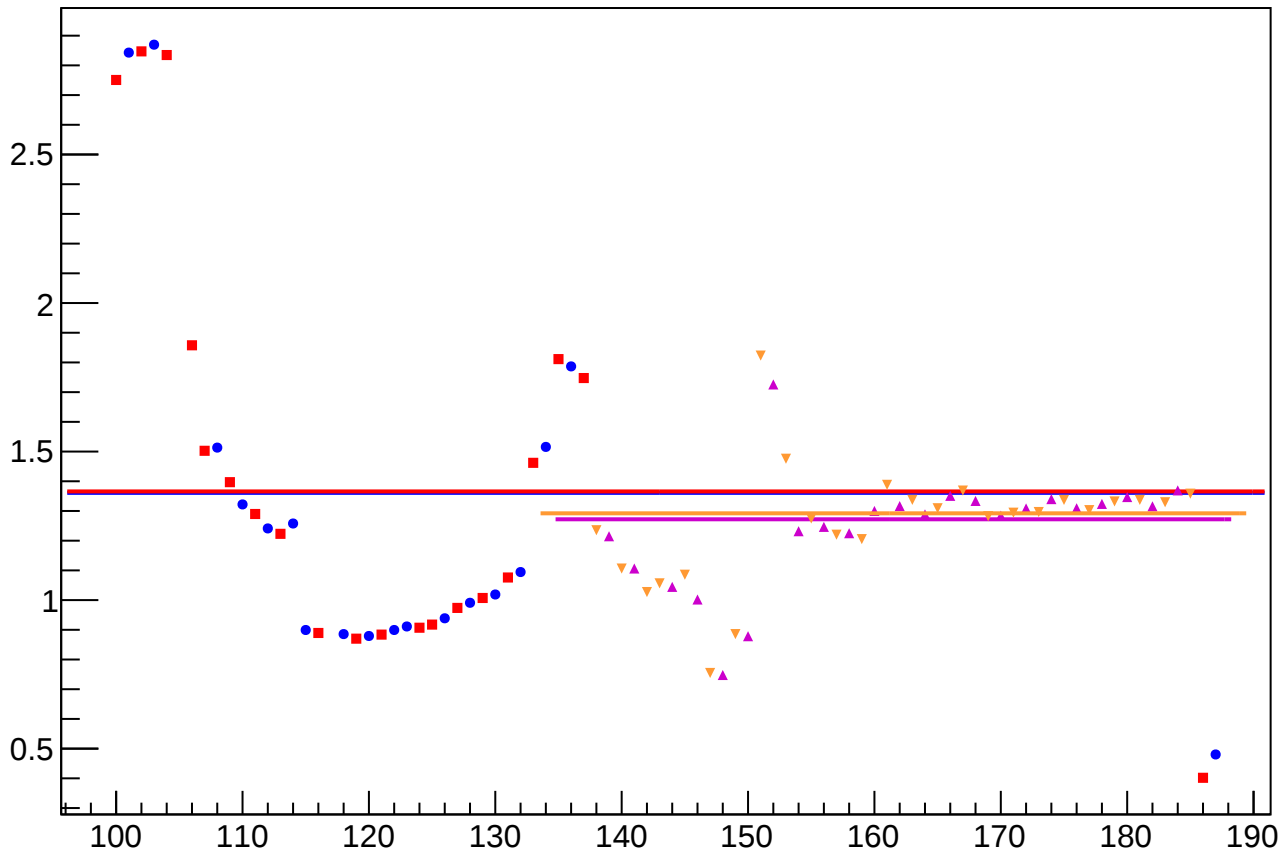
Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 839880.4/22

+ sign 0.008 $\pm$ 0.000 χ^2 /NDF: 1213015.2/42

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2404751.9/85

- sign 0.008 $\pm$ 0.000 χ^2 /NDF: 1190849.6/42

yield_bpm1i04X_mean vs Slug



Right In: 1.361 $\pm$ 0.000 χ^2 /NDF: 55375353045.6/17

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 53382083391.8/19

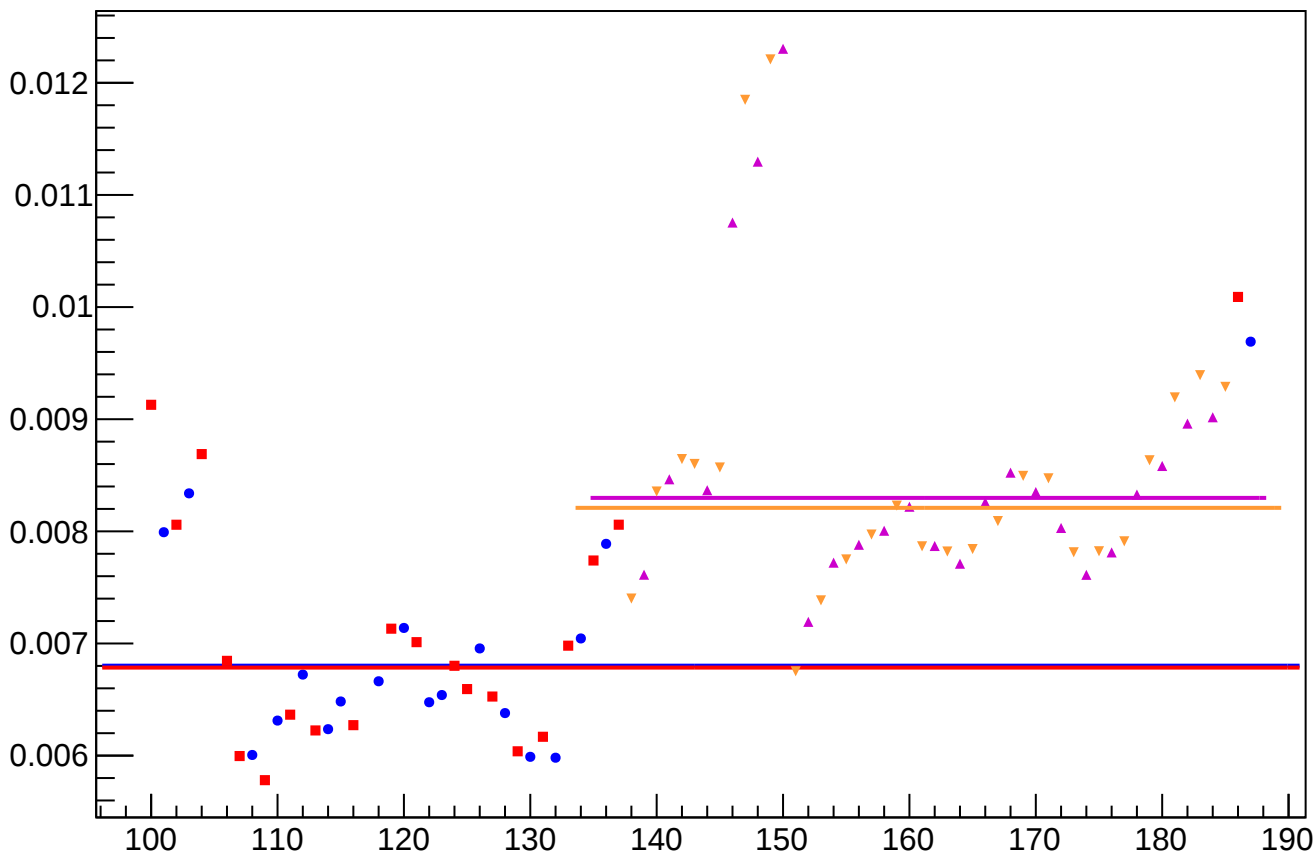
Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

+ sign 1.317 $\pm$ 0.000 χ^2 /NDF: 65124933128.4/42

All: 1.313 $\pm$ 0.000 χ^2 /NDF: 126939062442.1

- sign 1.309 $\pm$ 0.000 χ^2 /NDF: 61802444009.6/42

yield_bpm1i04X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 185792.0/17

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 272698.6/19

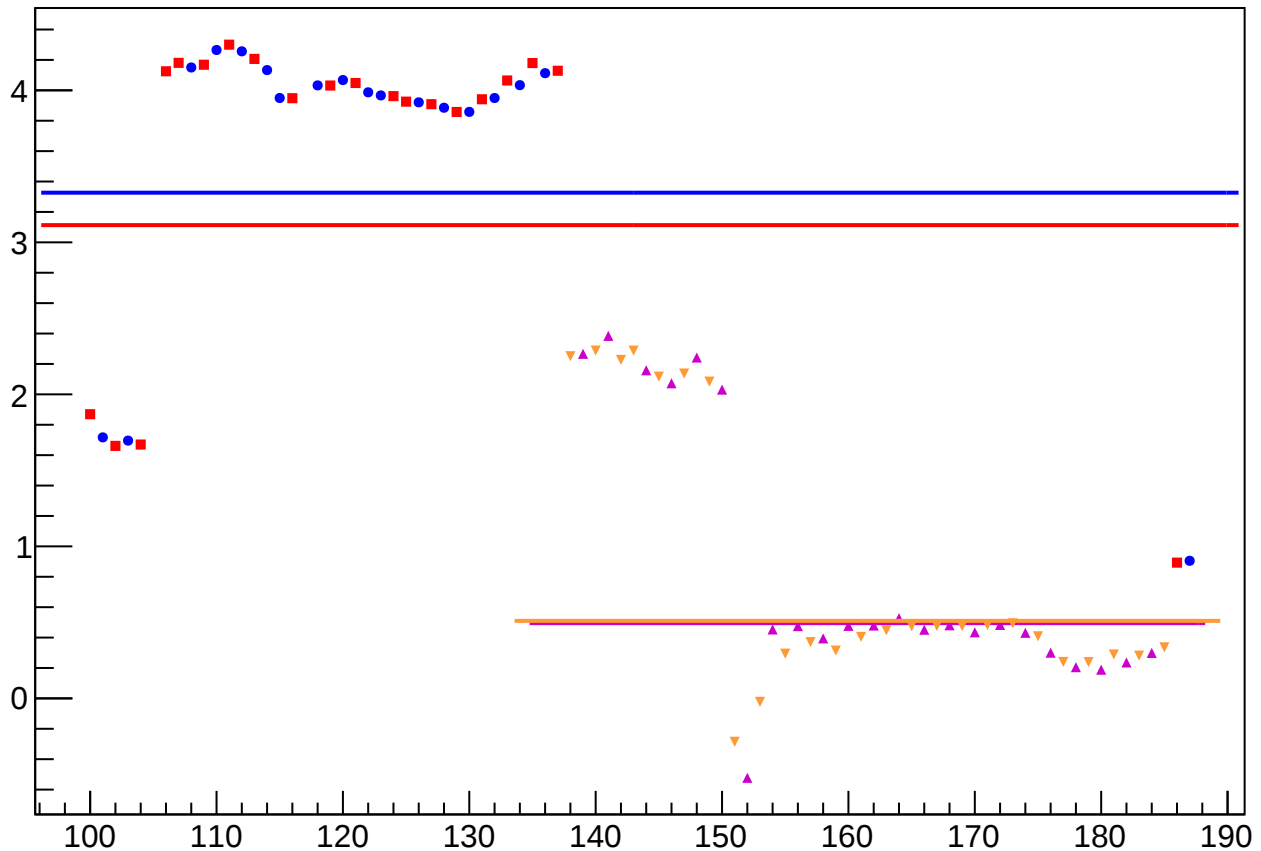
Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

+ sign 0.008+/-0.000 χ^2/NDF : 1035612.3/42

All: 0.008+/-0.000 χ^2/NDF : 2210850.0/85

- sign 0.008+/-0.000 χ^2/NDF : 1175214.7/42

yield_bpm1i04Y_mean vs Slug



Right In: 3.327+/-0.000 χ^2/NDF : 344062356047.3/17

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 3.113+/-0.000 χ^2/NDF : 538638826481.5/19

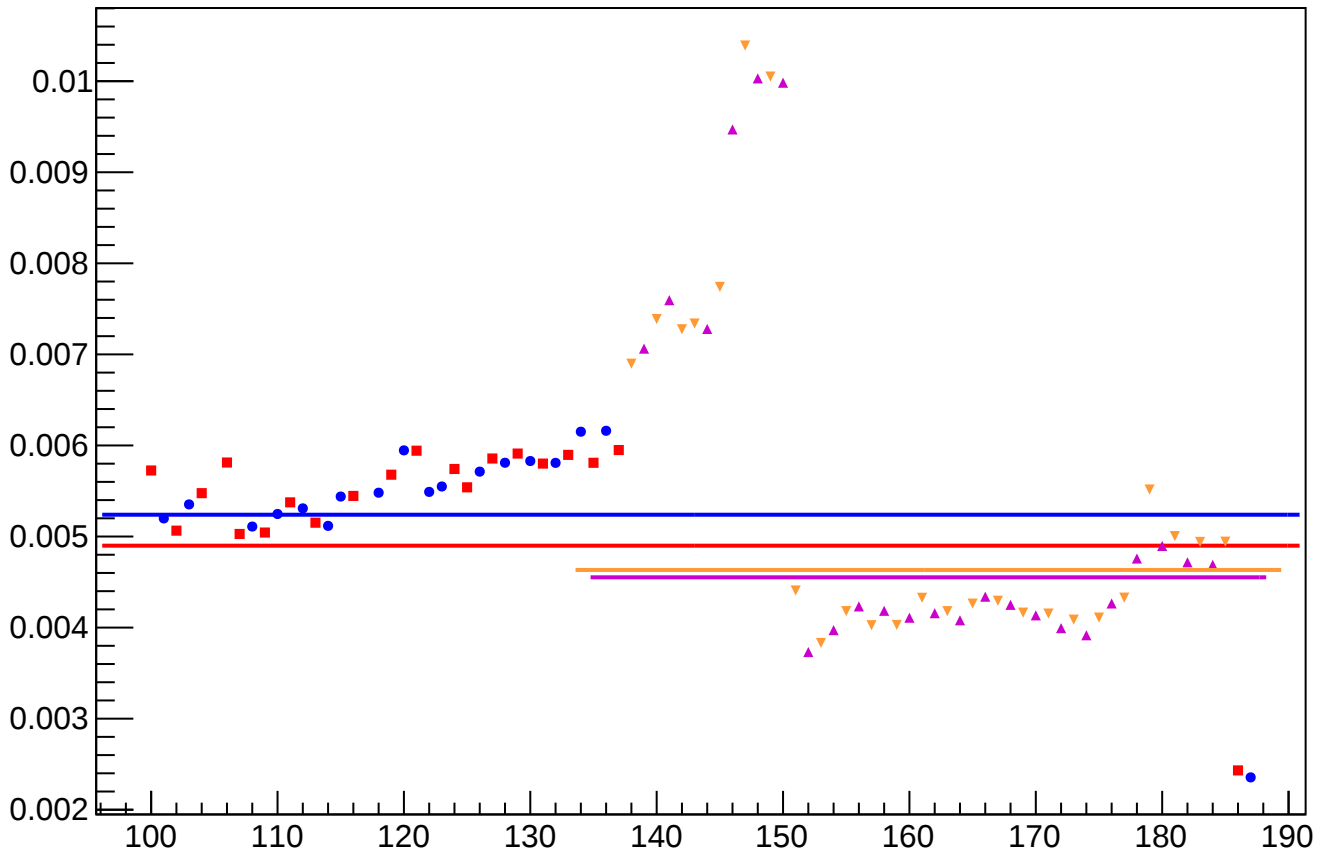
Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

+ sign 1.174+/-0.000 χ^2/NDF : 2070513648112.9/42

All: 1.192+/-0.000 χ^2/NDF : 4297994922974.

- sign 1.210+/-0.000 χ^2/NDF : 2226787051452.9/42

yield_bpm1i04Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 497416.3/17

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 907610.4/19

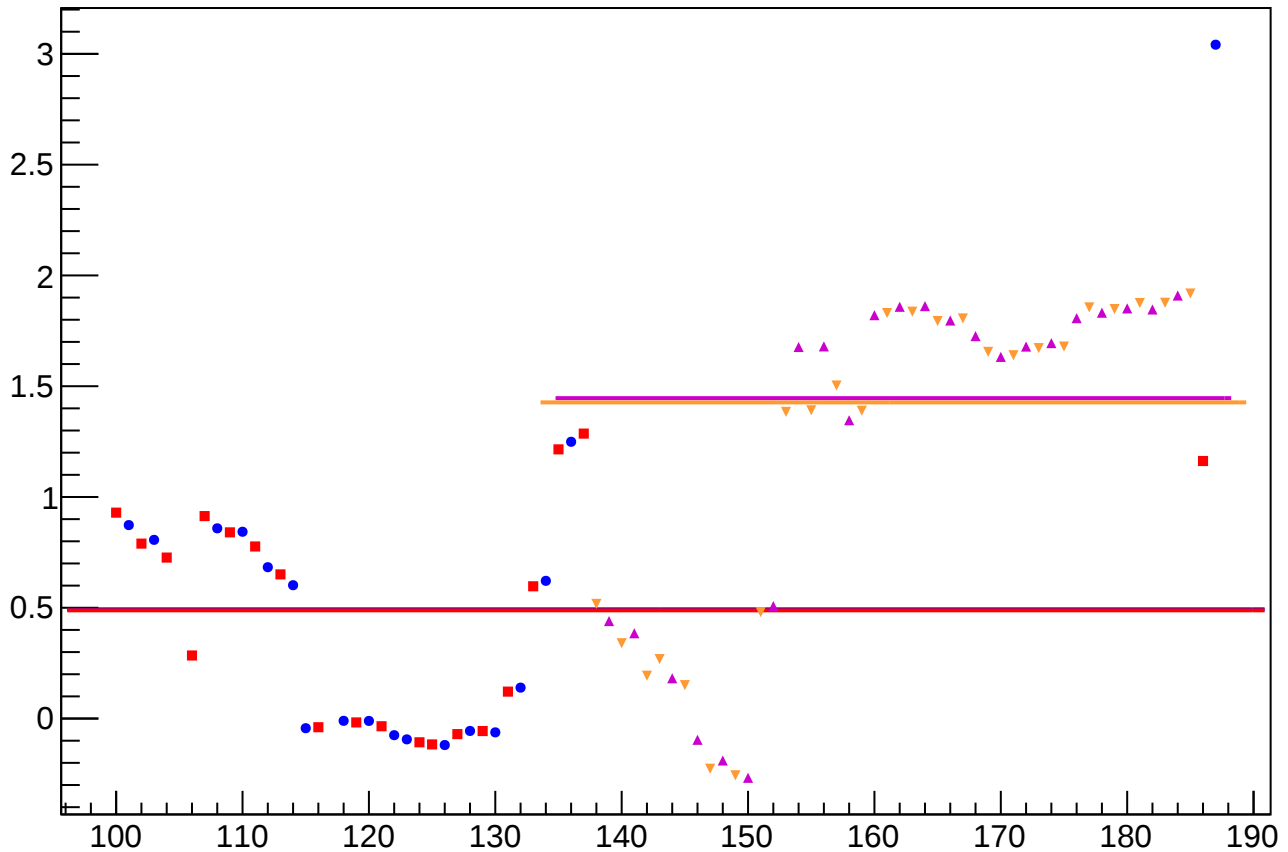
Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

+ sign 0.005+/-0.000 χ^2/NDF : 2746031.2/42

All: 0.005+/-0.000 χ^2/NDF : 5958352.2/85

- sign 0.005+/-0.000 χ^2/NDF : 3195254.1/42

yield_bpm1i06X_mean vs Slug



Right In: 0.493 $\pm$ 0.000 χ^2 /NDF: 16320283512.6/17

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 0.488 $\pm$ 0.000 χ^2 /NDF: 8043255102.8/19

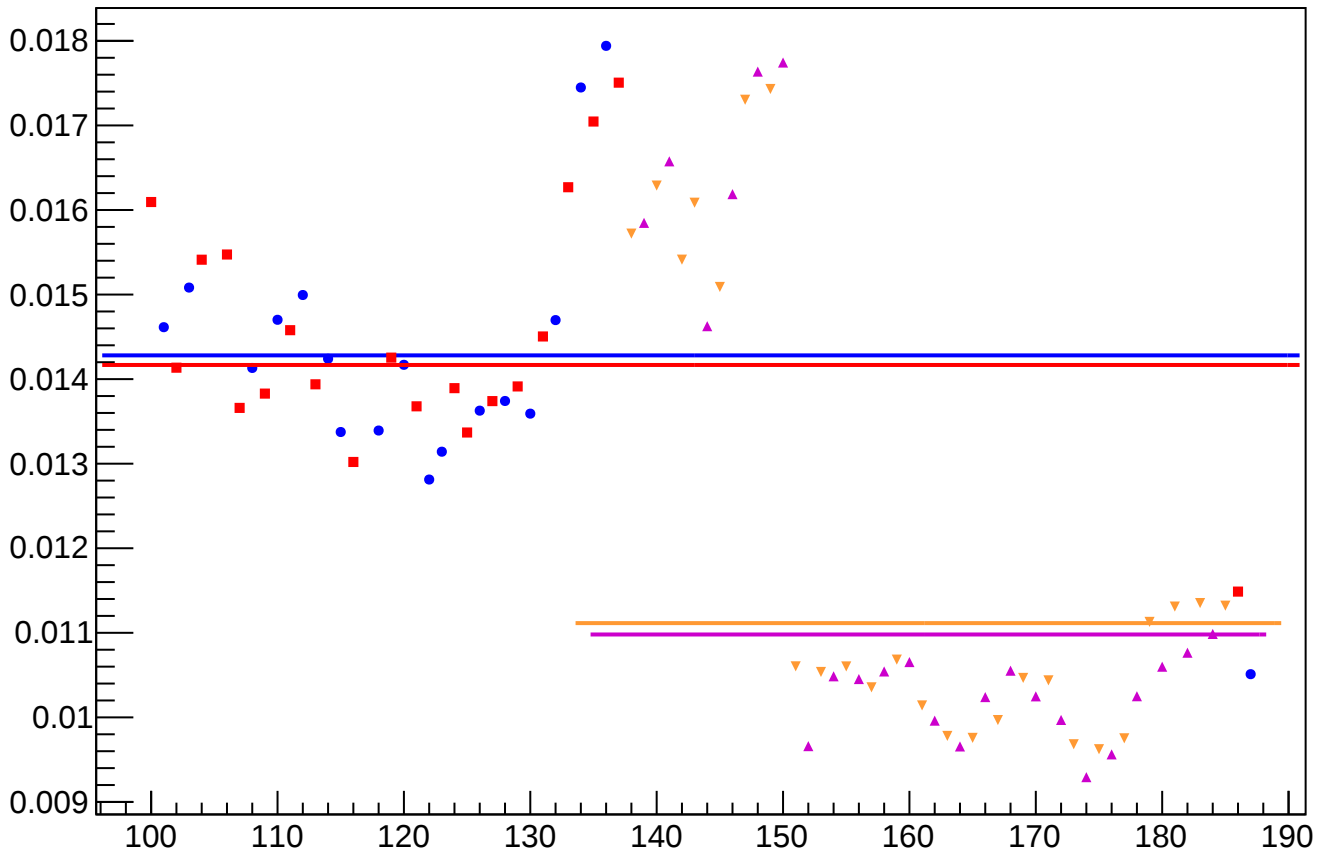
Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

+ sign 1.251 $\pm$ 0.000 χ^2 /NDF: 89689281614.8/42

All: 1.249 $\pm$ 0.000 χ^2 /NDF: 177784069228.1

- sign 1.246 $\pm$ 0.000 χ^2 /NDF: 88092791129.5/42

yield_bpm1i06X_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 149771.9/17

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1227493.2/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 118170.0/19

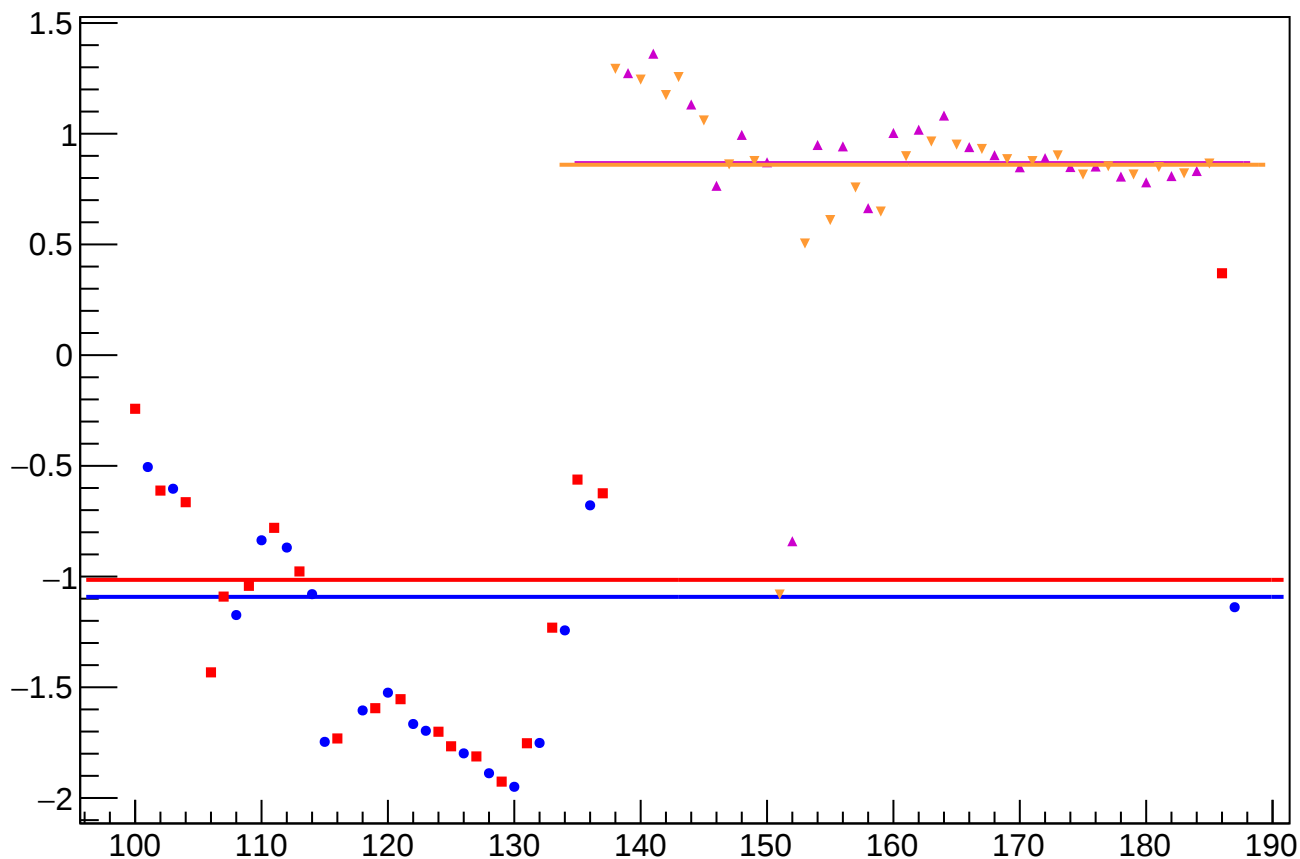
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264827.0/22

+ sign 0.012 $\pm$ 0.000 χ^2 /NDF: 1914323.0/42

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3880531.7/85

- sign 0.012 $\pm$ 0.000 χ^2 /NDF: 1965456.8/42

yield_bpm1i06Y_mean vs Slug



Right In: -1.092+/-0.000 χ^2/NDF : 55550499732.6/17

Left Out: 0.860+/-0.000 χ^2/NDF :126335891175.4/24

Right Out: -1.015+/-0.000 χ^2/NDF : 61847574704.9/19

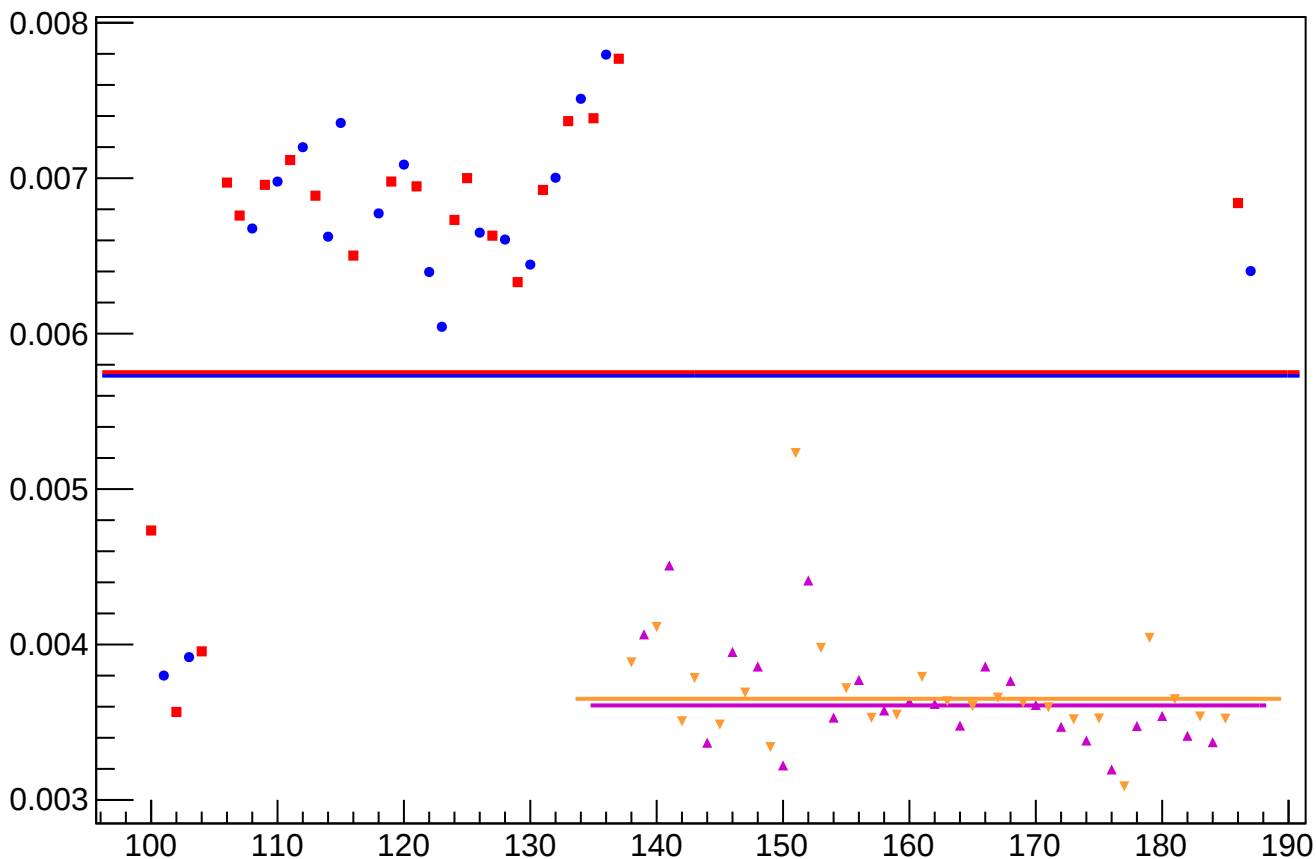
Left In: 0.867+/-0.000 χ^2/NDF :147039402944.6/22

+ sign 0.609+/-0.000 χ^2/NDF : 794633738767.8/42

All: 0.607+/-0.000 χ^2/NDF : 1600976943859.

- sign 0.604+/-0.000 χ^2/NDF : 806324009089.5/42

yield_bpm1i06Y_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 841283.0/17

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 940009.4/19

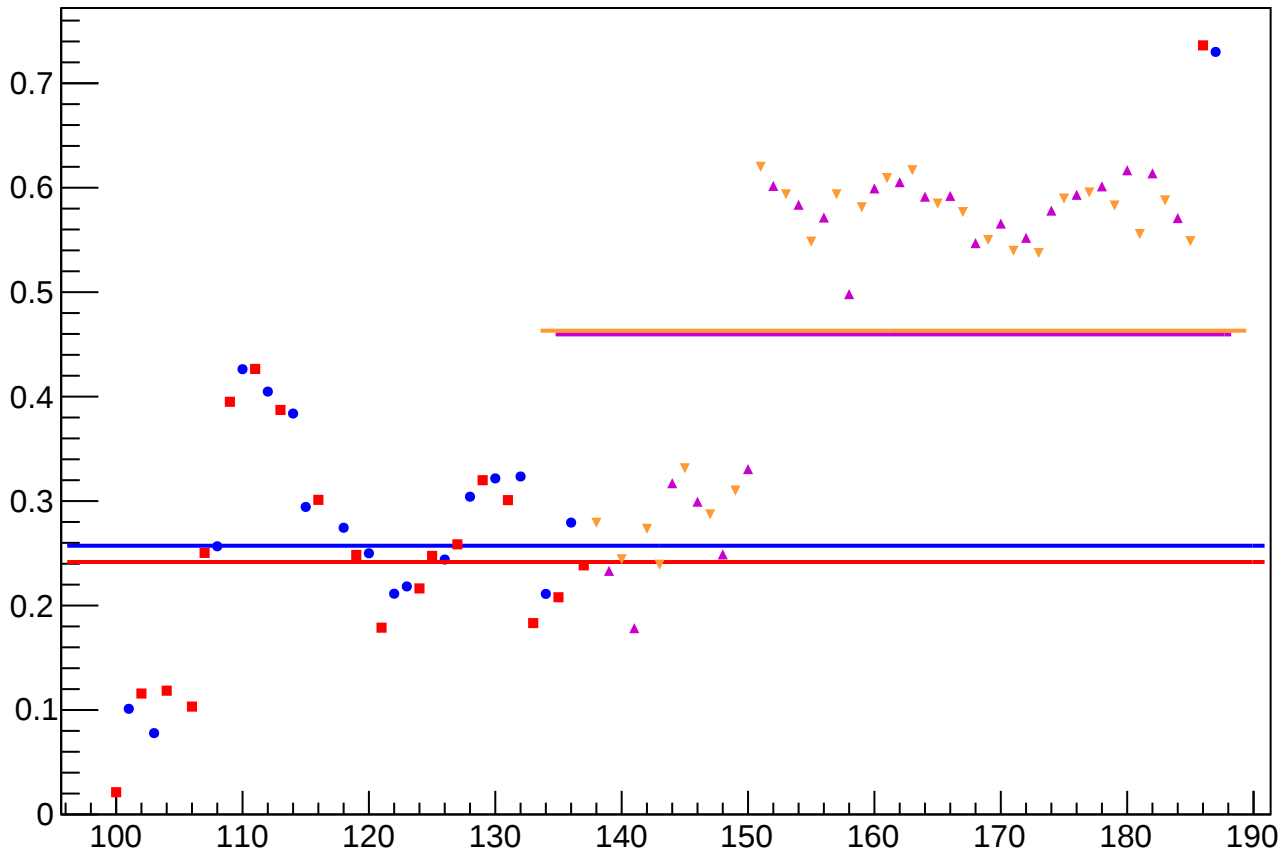
Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

+ sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2469173.1/42

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 5187596.2/85

- sign 0.004 $\pm$ 0.000 χ^2 /NDF: 2718283.2/42

yield_bpm2i01X_mean vs Slug



Right In: 0.257+/-0.000 χ^2/NDF : 23307781837.1/17

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.242+/-0.000 χ^2/NDF : 31758588130.7/19

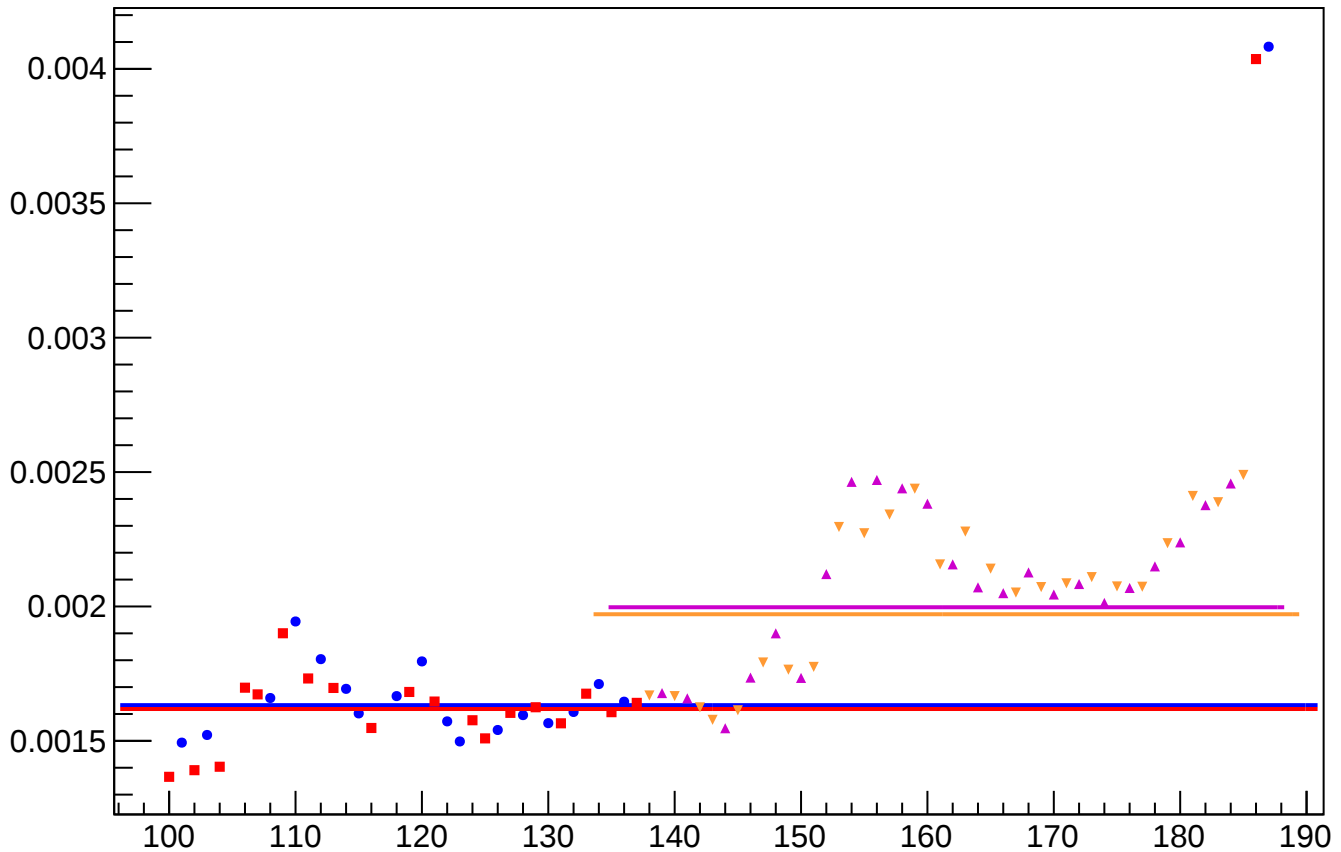
Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

+ sign 0.392+/-0.000 χ^2/NDF : 193462181036.5/42

All: 0.383+/-0.000 χ^2/NDF : 409653880057.3

- sign 0.374+/-0.000 χ^2/NDF : 215050850607.9/42

yield_bpm2i01X_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 159960.2/17

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 363555.5/19

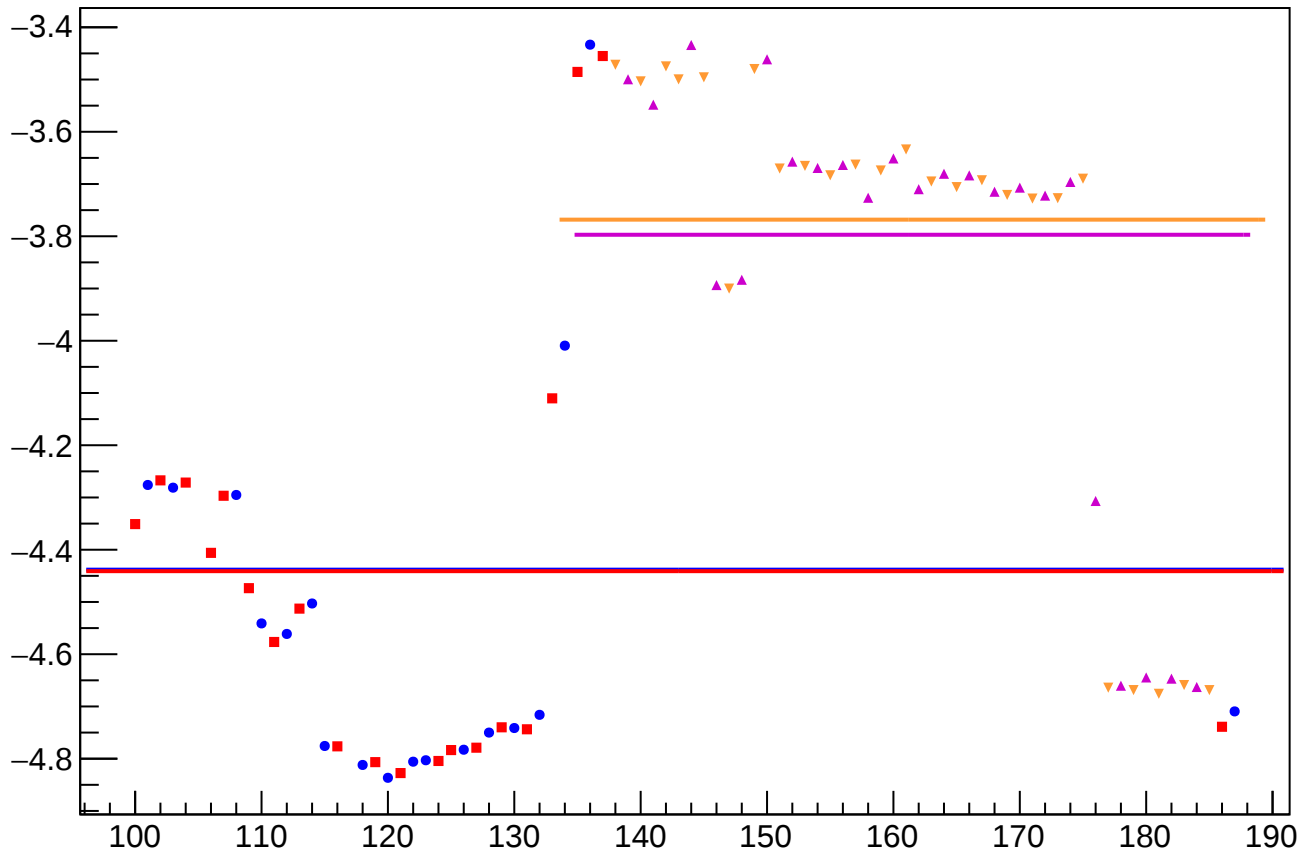
Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

+ sign 0.002+/-0.000 χ^2/NDF : 1255171.0/42

All: 0.002+/-0.000 χ^2/NDF : 2760726.9/85

- sign 0.002+/-0.000 χ^2/NDF : 1505310.3/42

yield_bpm2i01Y_mean vs Slug



Right In: -4.438+/-0.000 χ^2 /NDF: 393458719044.2/17

Left Out: -3.768+/-0.000 χ^2 /NDF: 516780173940.8/24

Right Out: -4.441+/-0.000 χ^2 /NDF: 328276371518.5/19

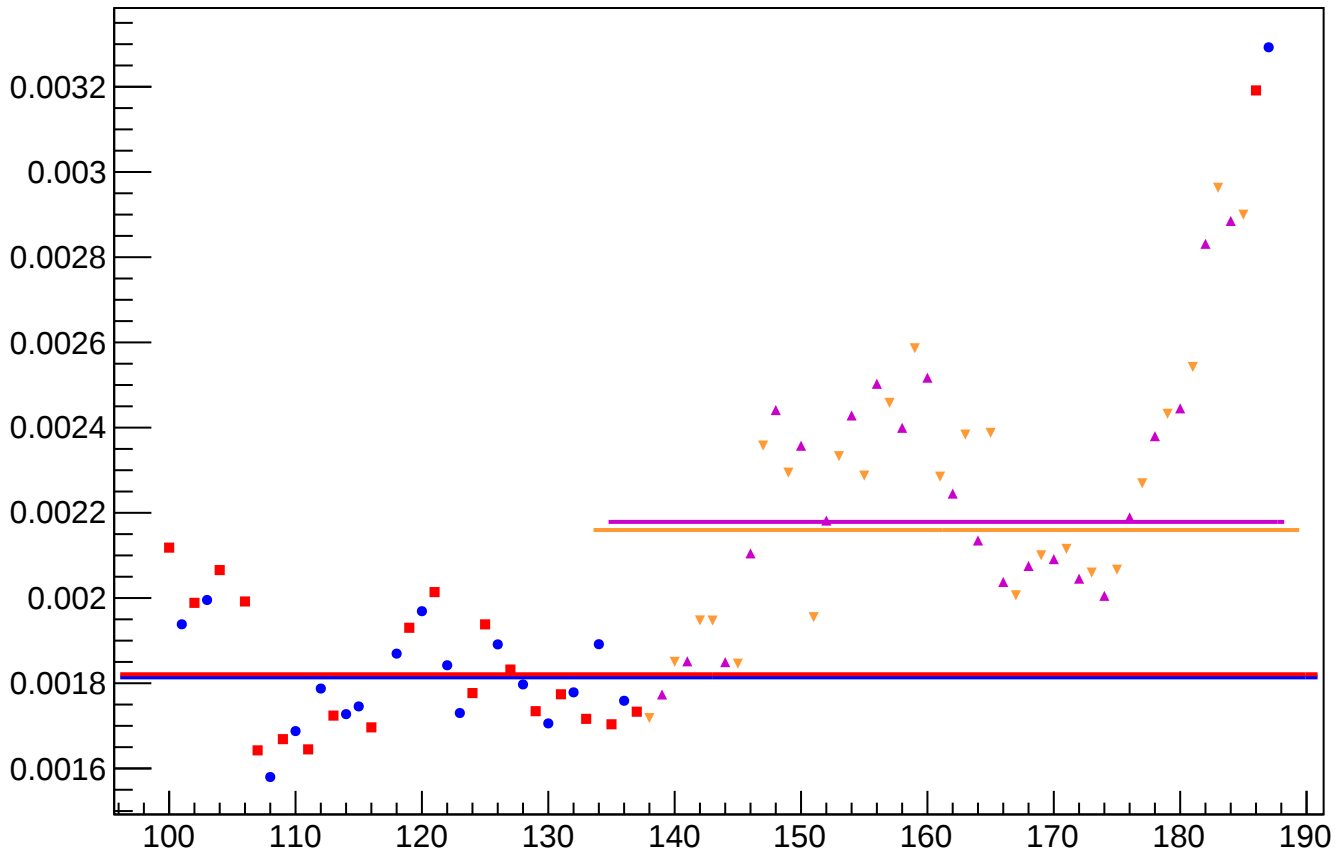
Left In: -3.797+/-0.000 χ^2 /NDF: 444886272608.9/22

+ sign -3.999+/-0.000 χ^2 /NDF: 1500188750910.9/4

All: -4.020+/-0.000 χ^2 /NDF: 2834863673381

- sign -4.041+/-0.000 χ^2 /NDF: 1329722440820.2/4

yield_bpm2i01Y_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 106249.3/17

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 221843.5/19

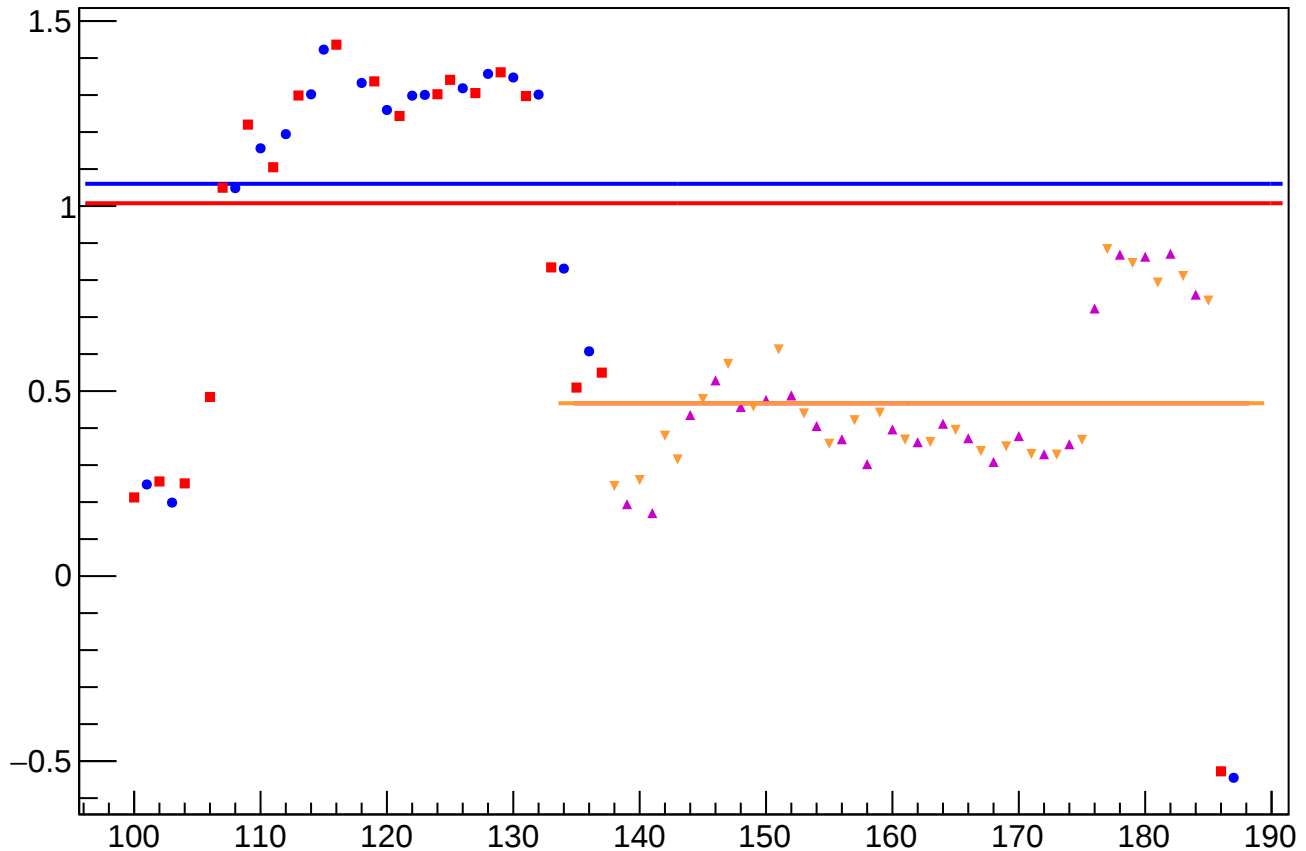
Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

+ sign 0.002+/-0.000 χ^2/NDF : 968471.5/42

All: 0.002+/-0.000 χ^2/NDF : 1997041.7/85

- sign 0.002+/-0.000 χ^2/NDF : 1028516.1/42

yield_bpm2i02X_mean vs Slug



Right In: 1.060 $\pm$ 0.000 χ^2 /NDF: 21158359760.3/17

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

+ sign 0.687 $\pm$ 0.000 χ^2 /NDF: 55780501399.1/42

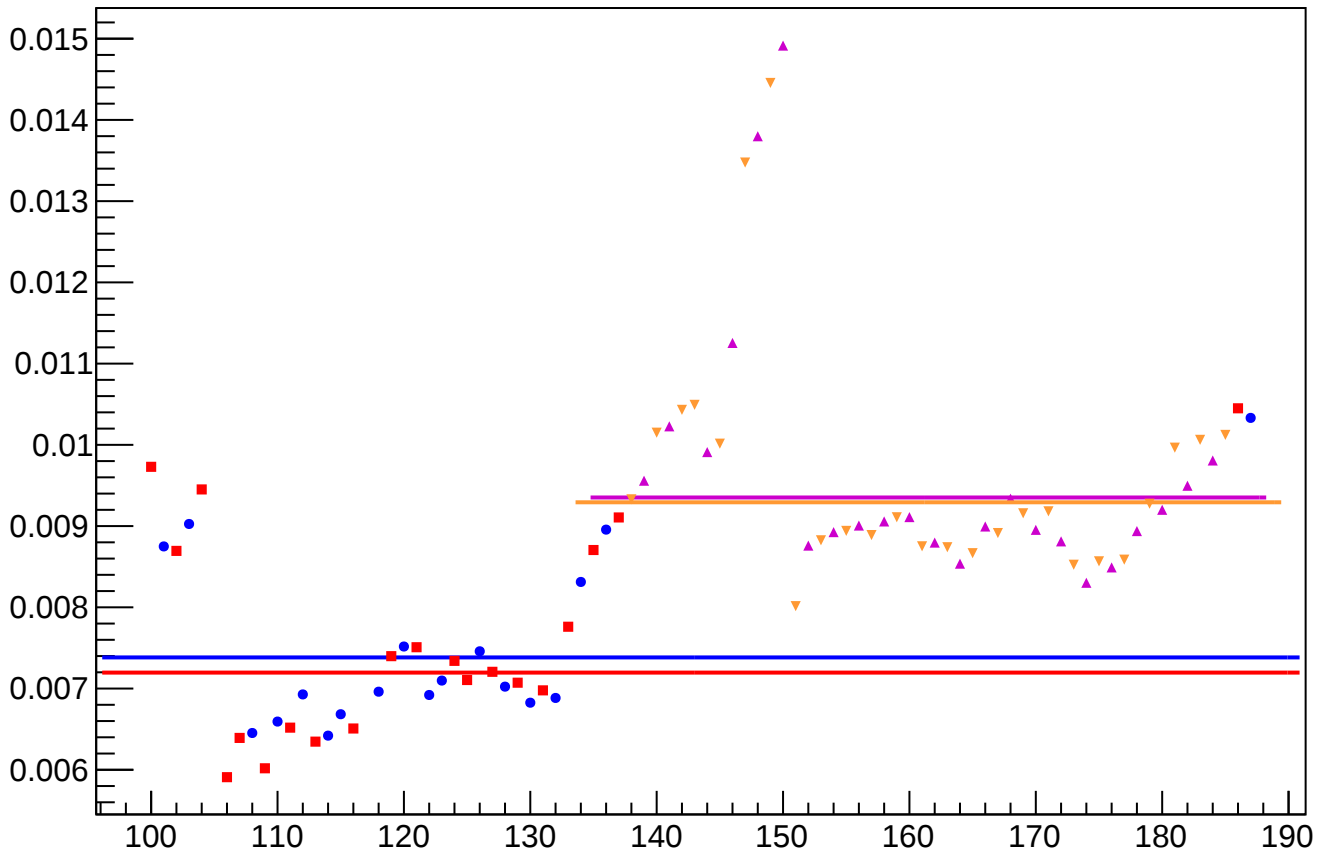
Right Out: 1.008 $\pm$ 0.000 χ^2 /NDF: 28013165028.5/19

All: 0.691 $\pm$ 0.000 χ^2 /NDF: 115722943186.6

- sign 0.694 $\pm$ 0.000 χ^2 /NDF: 59934495071.9/42

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

yield_bpm2i02X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 205525.8/17

Left Out: 0.009+/-0.000 χ^2/NDF : 528279.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 334424.8/19

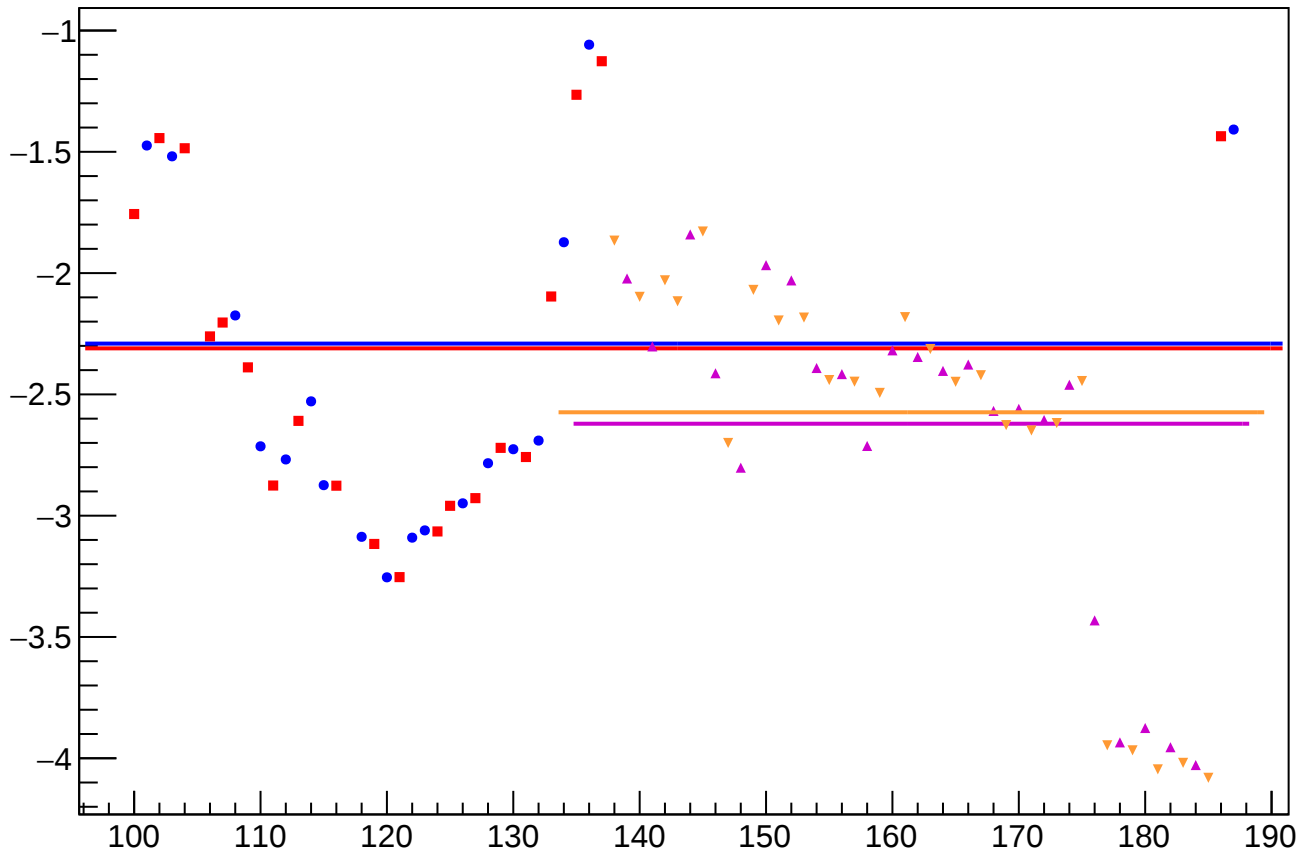
Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

+ sign 0.009+/-0.000 χ^2/NDF : 1299339.3/42

All: 0.009+/-0.000 χ^2/NDF : 2956443.8/85

- sign 0.008+/-0.000 χ^2/NDF : 1650730.0/42

yield_bpm2i02Y_mean vs Slug



Right In: -2.291 ± 0.000 χ^2/NDF : 74863386004.6/17

Left Out: -2.574 ± 0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.310 ± 0.000 χ^2/NDF : 67572619948.1/19

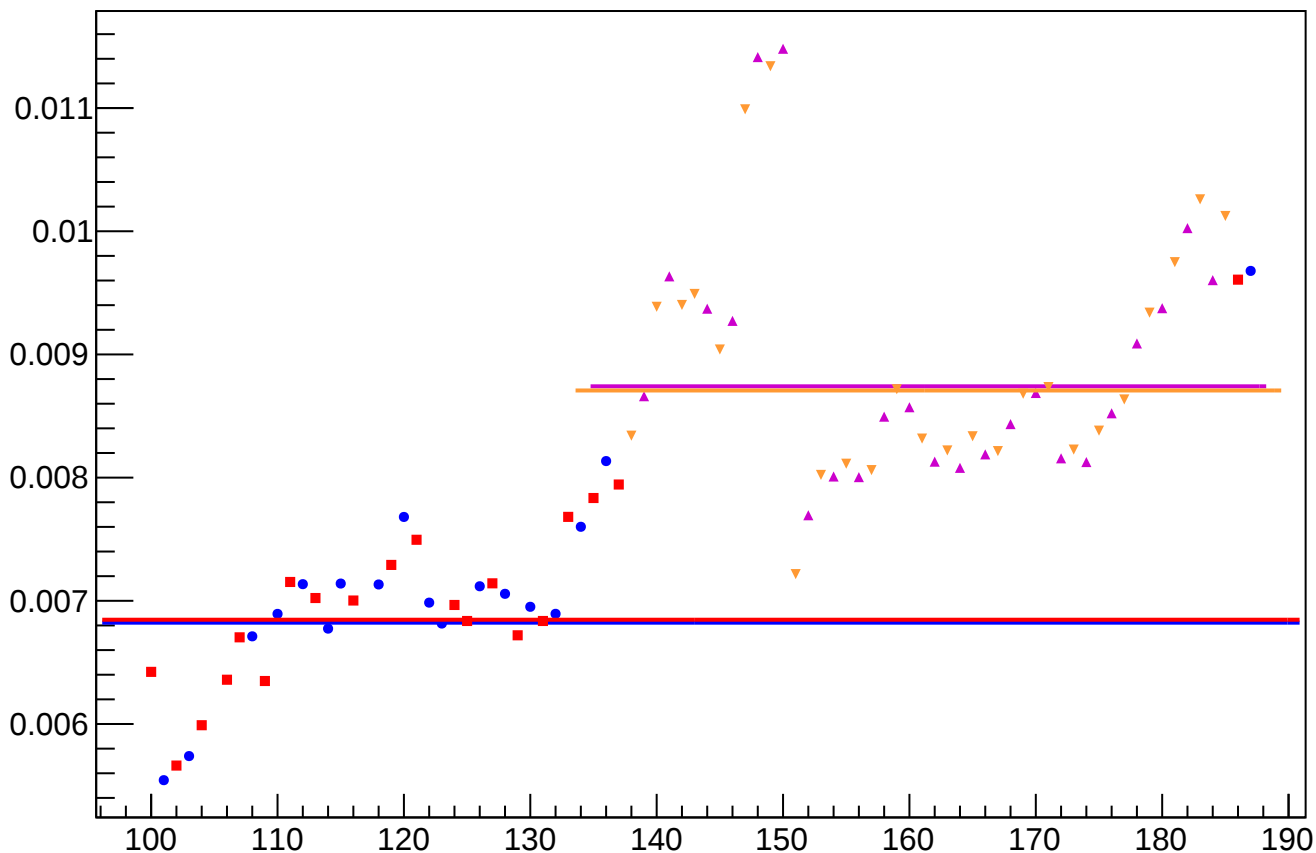
Left In: -2.621 ± 0.000 χ^2/NDF : 80862402796.4/22

+ sign -2.467 ± 0.000 χ^2/NDF : 181282601992.0/42

All: -2.480 ± 0.000 χ^2/NDF : 338774258083.6

- sign -2.493 ± 0.000 χ^2/NDF : 157364278231.4/42

yield_bpm2i02Y_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 192232.4/17

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 187620.2/19

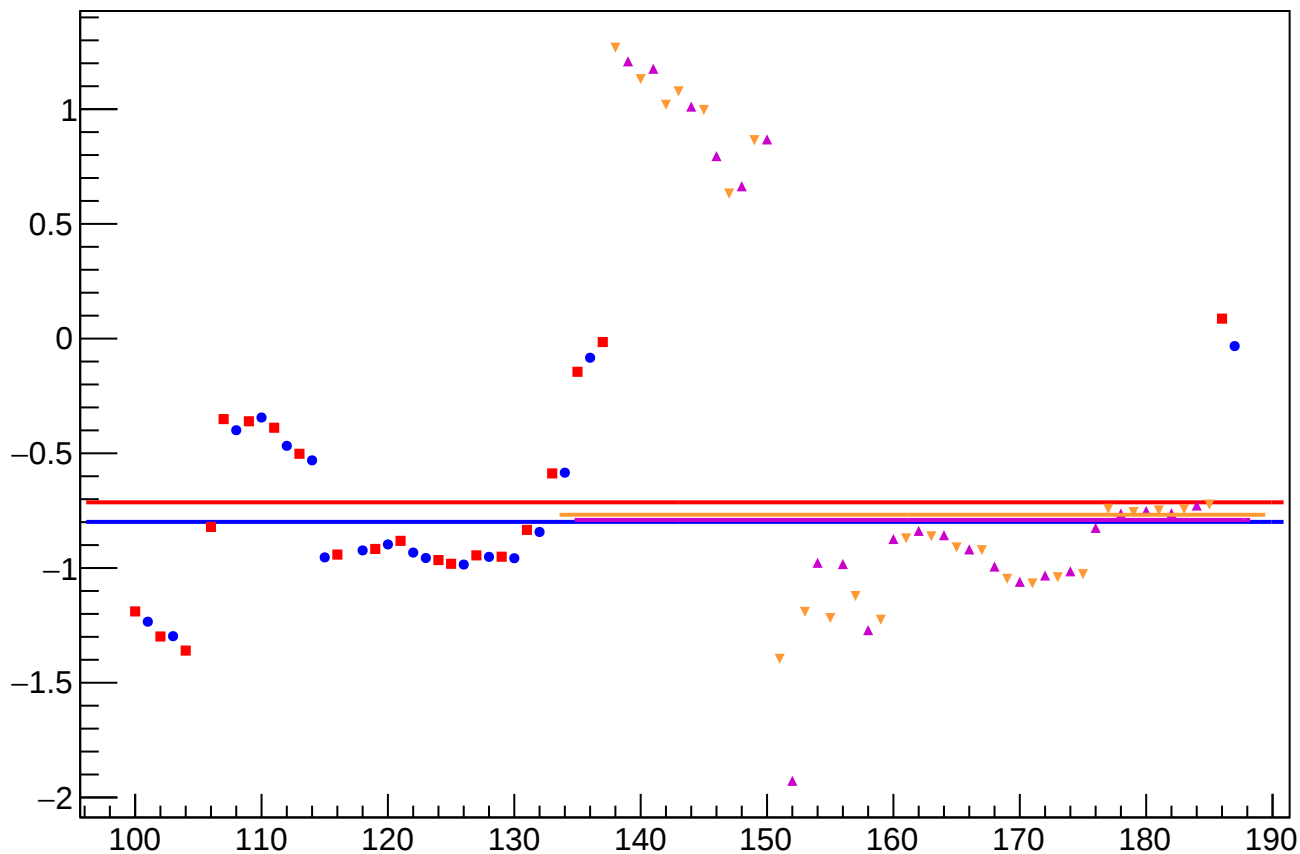
Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

+ sign 0.008+/-0.000 χ^2/NDF : 1203550.7/42

All: 0.008+/-0.000 χ^2/NDF : 2409680.8/85

- sign 0.008+/-0.000 χ^2/NDF : 1205603.0/42

yield_bpm0i01X_mean vs Slug



Right In: -0.799+/-0.000 χ^2/NDF : 8129630903.5/17

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.714+/-0.000 χ^2/NDF : 12092540082.8/19

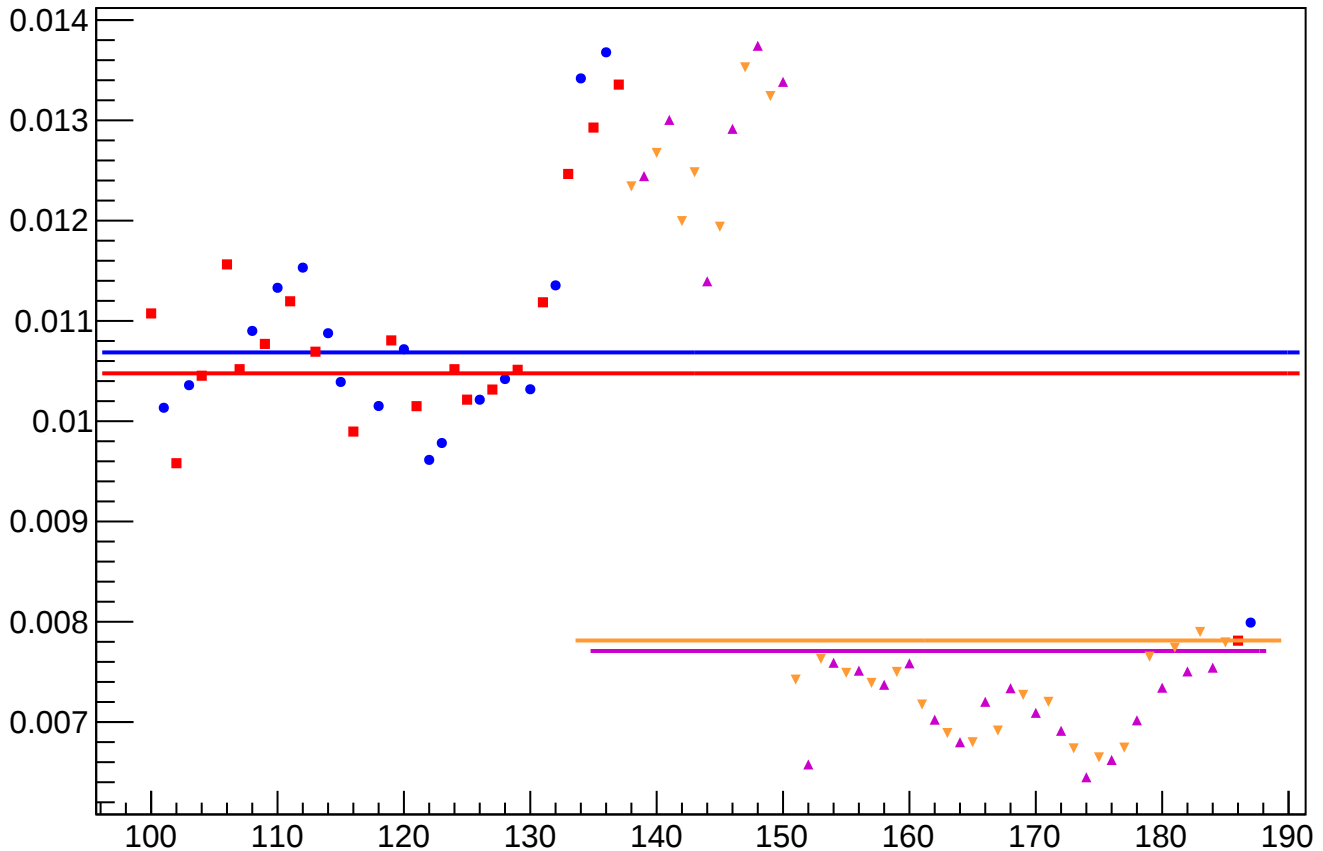
Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

+ sign -0.773+/-0.000 χ^2/NDF : 128951322450.6/42

All: -0.774+/-0.000 χ^2/NDF : 264808219827.6

- sign -0.775+/-0.000 χ^2/NDF : 135855992659.9/42

yield_bpm0i01X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 160523.5/17

Left Out: 0.008+/-0.000 χ^2/NDF : 1705997.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 184381.6/19

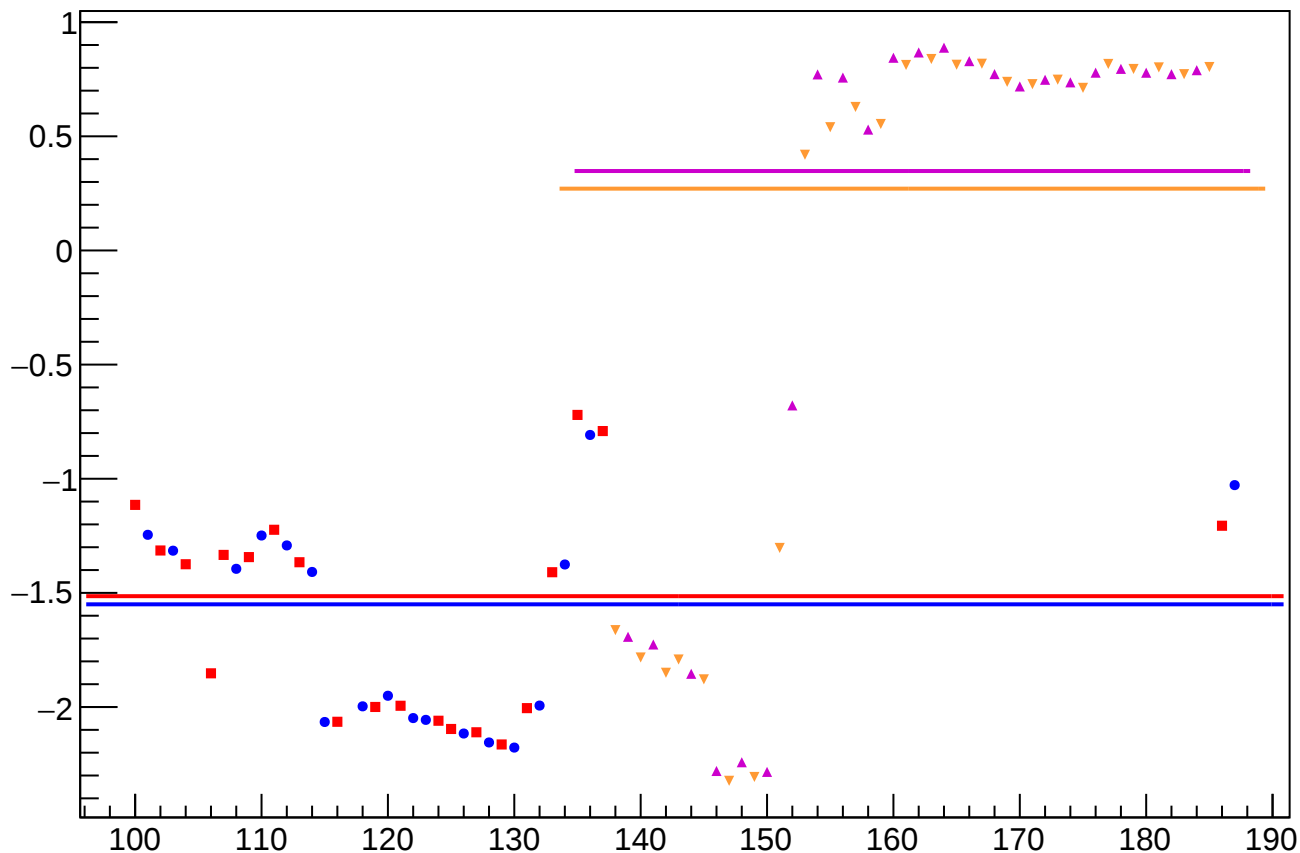
Left In: 0.008+/-0.000 χ^2/NDF : 1746653.6/22

+ sign 0.008+/-0.000 χ^2/NDF : 2666165.3/42

All: 0.008+/-0.000 χ^2/NDF : 5408401.6/85

- sign 0.008+/-0.000 χ^2/NDF : 2740969.9/42

yield_bpm0i01Y_mean vs Slug



Right In: -1.550 ± 0.000 $\chi^2/\text{NDF}: 155391976275.9/17$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.514 ± 0.000 $\chi^2/\text{NDF}: 139525609632.0/19$

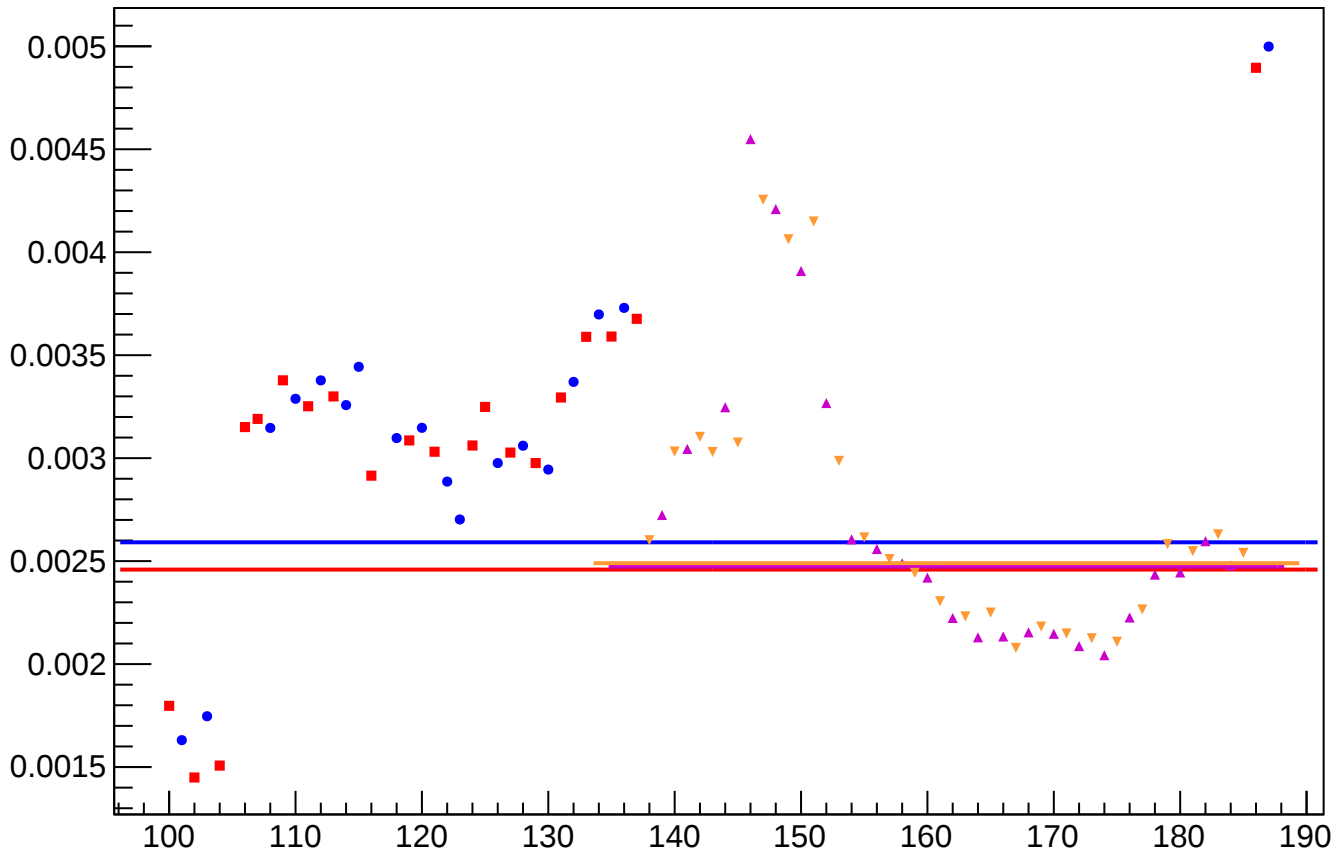
Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

+ sign -0.177 ± 0.000 $\chi^2/\text{NDF}: 4877844880236.0/4$

All: -0.178 ± 0.000 $\chi^2/\text{NDF}: 9728052470098$

- sign -0.179 ± 0.000 $\chi^2/\text{NDF}: 4850202281287.9/4$

yield_bpm0i01Y_rms vs Slug



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1083283.0/17

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1070282.7/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 1667487.9/19

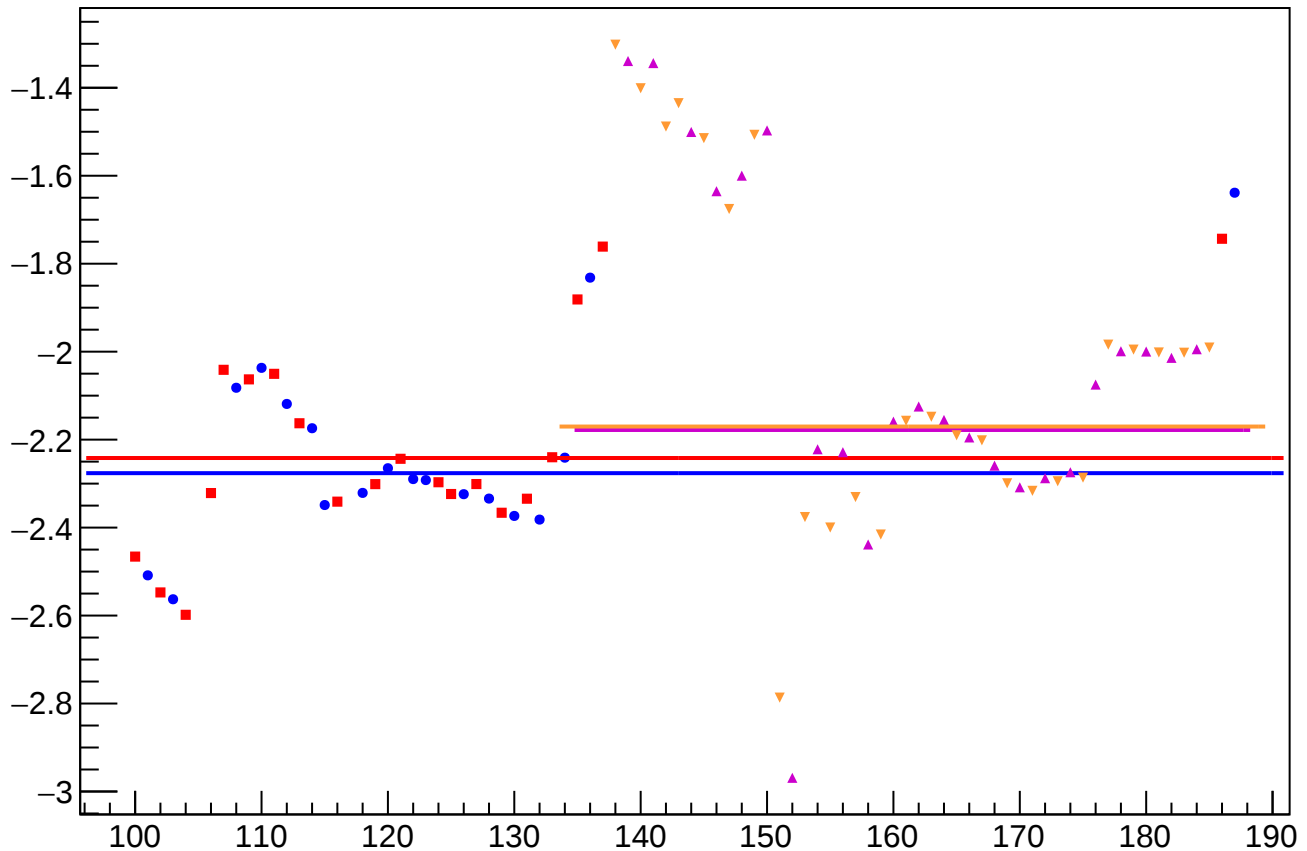
Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1135279.8/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 2166814.7/42

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 4977118.9/85

- sign 0.002 $\pm$ 0.000 χ^2 /NDF: 2803065.6/42

yield_bpm0i01aX_mean vs Slug



Right In: -2.276+/-0.000 χ^2/NDF : 7783702740.0/17

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.242+/-0.000 χ^2/NDF : 10141724054.3/19

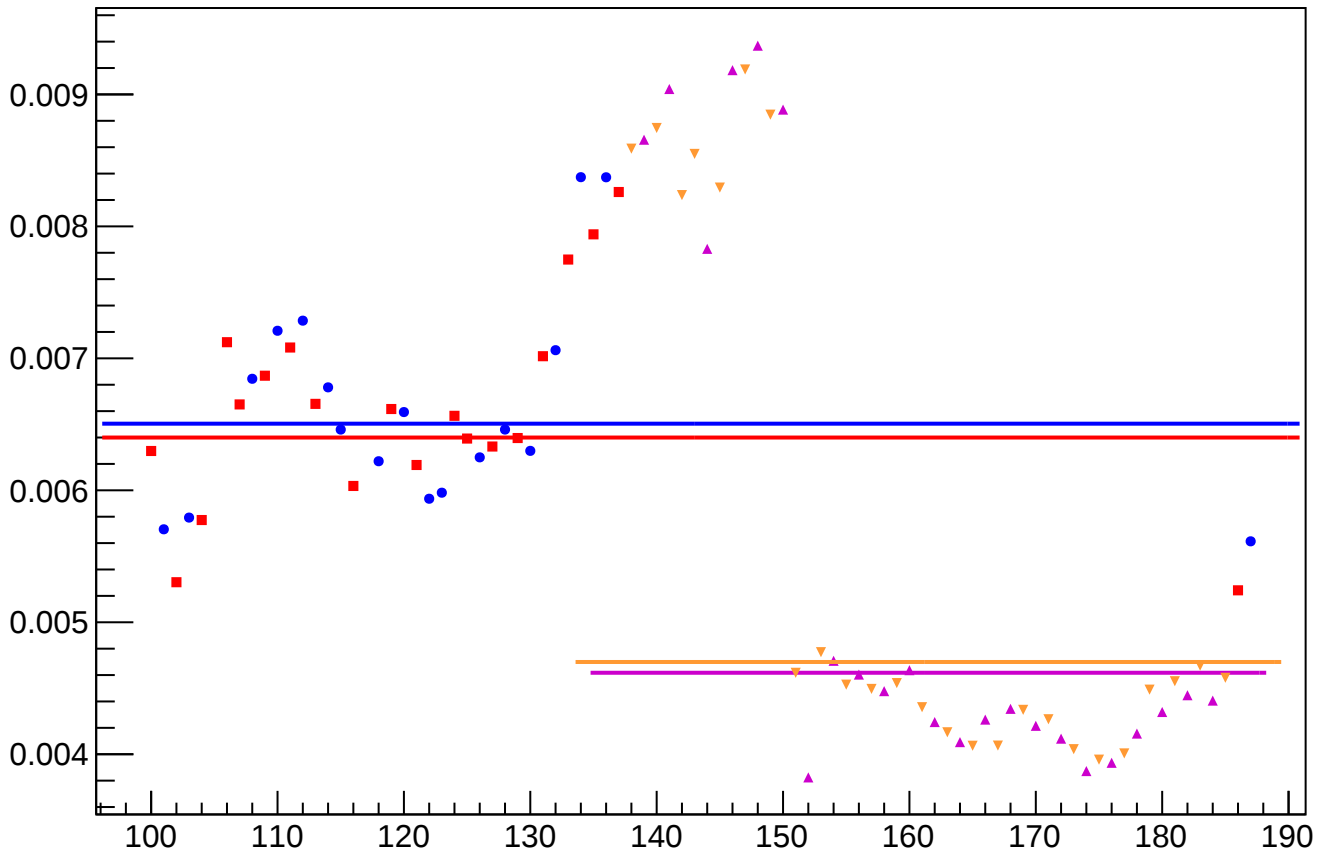
Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

+ sign -2.188+/-0.000 χ^2/NDF : 69200970428.7/42

All: -2.189+/-0.000 χ^2/NDF : 153316325044.0

- sign -2.190+/-0.000 χ^2/NDF : 84113719007.5/42

yield_bpm0i01aX_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 183418.1/17

Left Out: 0.005+/-0.000 χ^2/NDF : 2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 201980.9/19

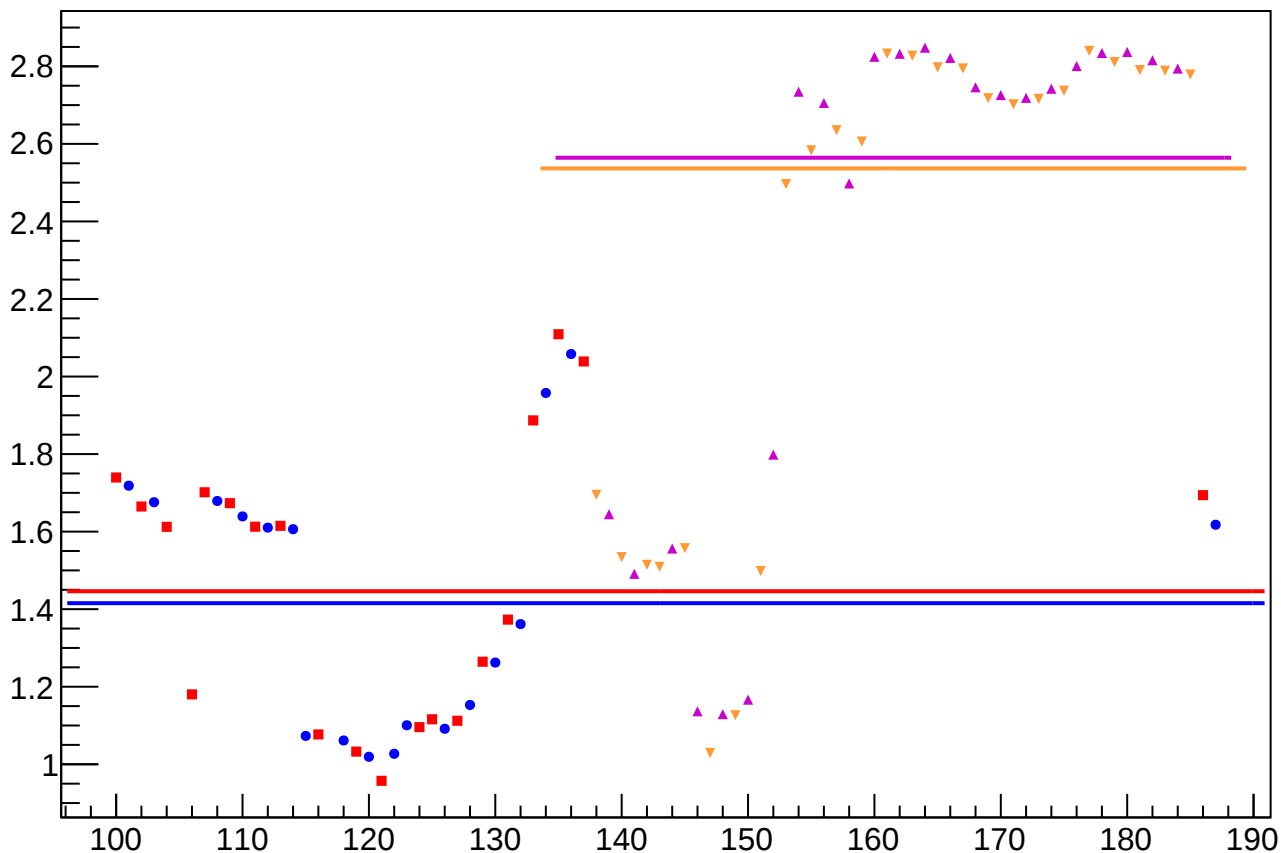
Left In: 0.005+/-0.000 χ^2/NDF : 2367440.9/22

+ sign 0.005+/-0.000 χ^2/NDF : 3344904.4/42

All: 0.005+/-0.000 χ^2/NDF : 6808069.8/85

- sign 0.005+/-0.000 χ^2/NDF : 3460996.8/42

yield_bpm0i01aY_mean vs Slug



Right In: 1.415+/-0.000 χ^2/NDF : 171952258400.1/17

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.446+/-0.000 χ^2/NDF : 173765251899.0/19

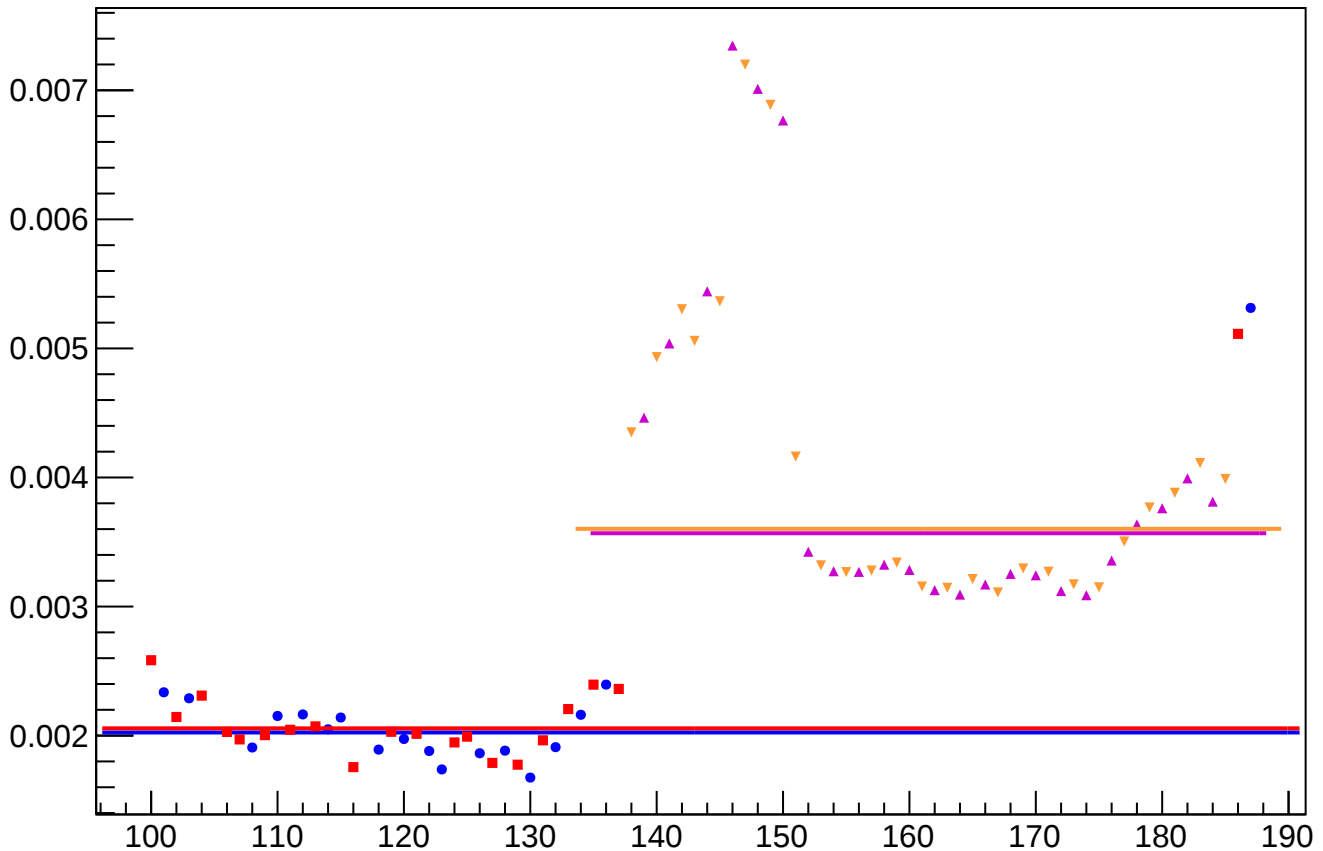
Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

+ sign 1.929+/-0.000 χ^2/NDF : 1318838575608.6/42

All: 1.931+/-0.000 χ^2/NDF : 2617453666143.

- sign 1.934+/-0.000 χ^2/NDF : 1298589299449.2/42

yield_bpm0i01aY_rms vs Slug



Right In: 0.002+/-0.000 χ^2/NDF : 264957.5/17

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 375619.9/19

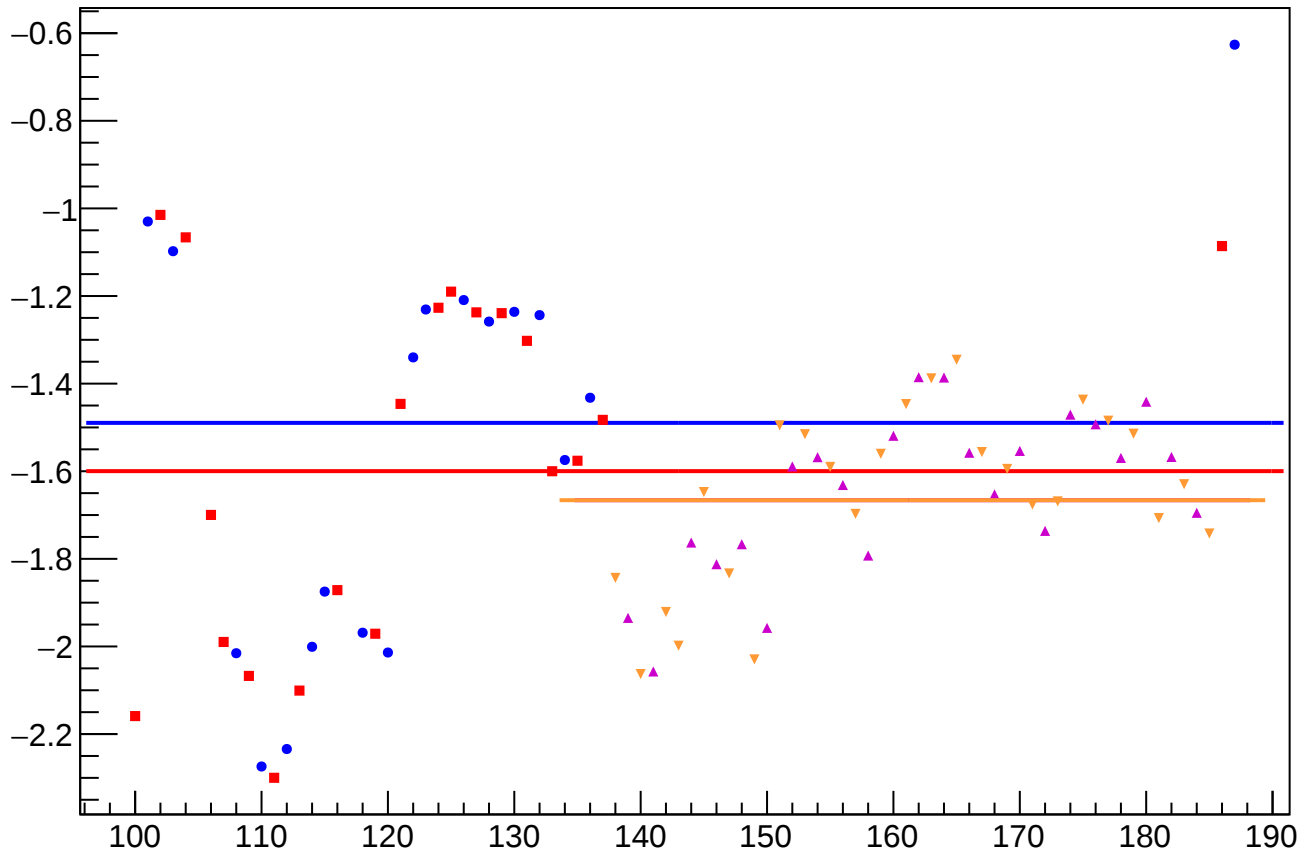
Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

+ sign 0.003+/-0.000 χ^2/NDF : 5150836.7/42

All: 0.003+/-0.000 χ^2/NDF : 10252974.3/85

- sign 0.003+/-0.000 χ^2/NDF : 5099228.0/42

yield_bpm0l01X_mean vs Slug



Right In: -1.490+/-0.000 χ^2/NDF : 23311263811.8/17

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.600+/-0.000 χ^2/NDF : 28503601597.9/19

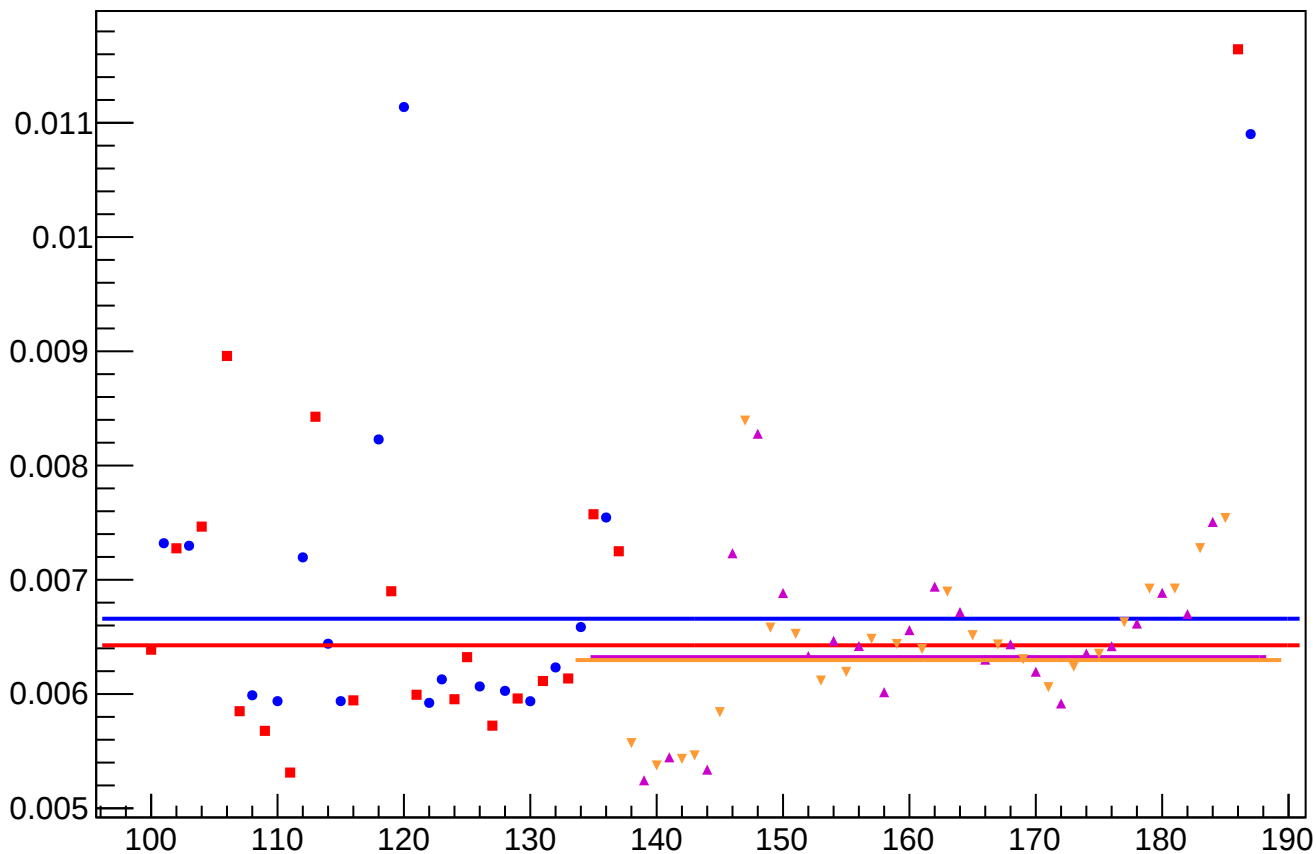
Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

+ sign -1.624+/-0.000 χ^2/NDF : 44936488982.3/42

All: -1.635+/-0.000 χ^2/NDF : 88409386728.1/42

- sign -1.647+/-0.000 χ^2/NDF : 43315994082.7/42

yield_bpm0l01X_rms vs Slug



Right In: 0.007+/-0.000 χ^2/NDF : 271832.8/17

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 368614.7/19

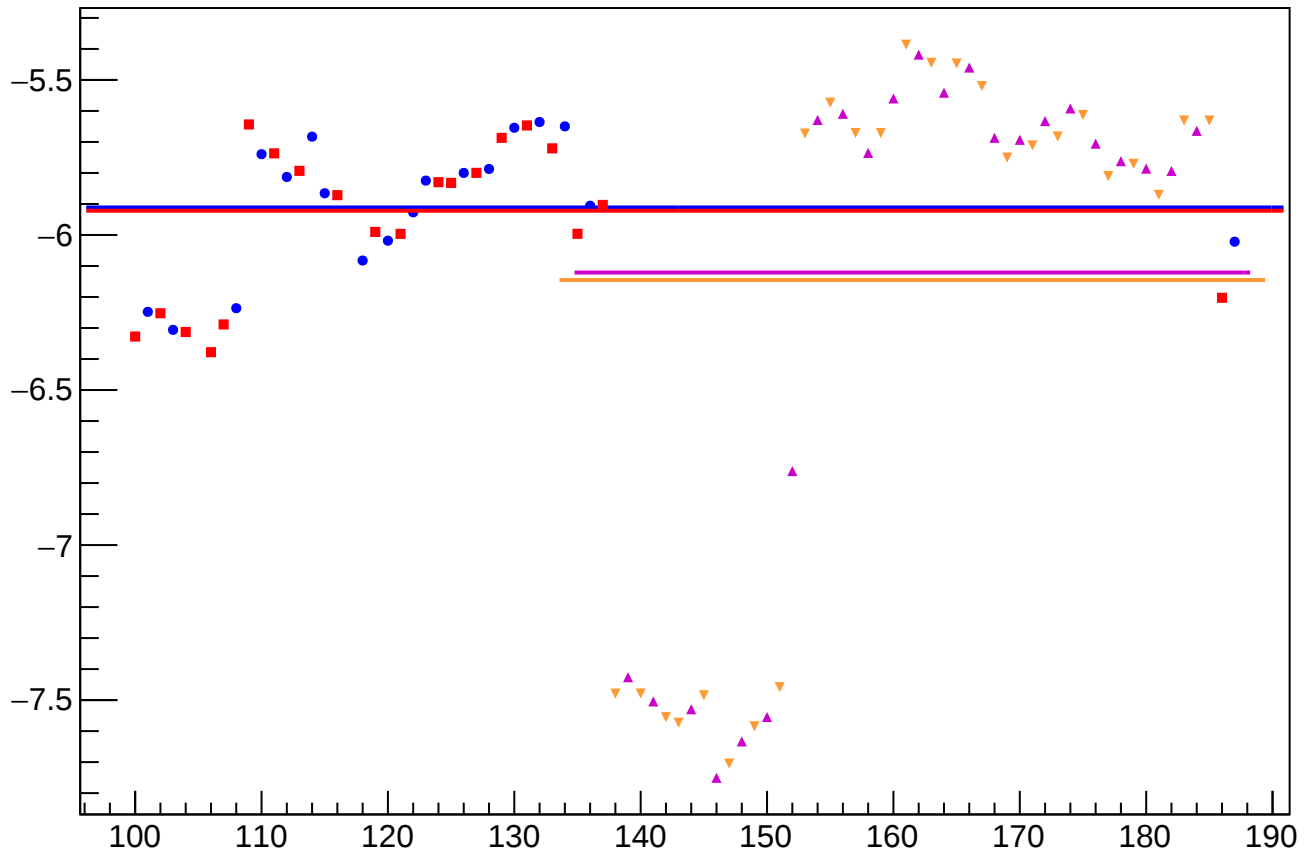
Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

+ sign 0.006+/-0.000 χ^2/NDF : 610339.1/42

All: 0.006+/-0.000 χ^2/NDF : 1312901.5/85

- sign 0.006+/-0.000 χ^2/NDF : 701996.8/42

yield_bpm0l01Y_mean vs Slug



Right In: -5.911+/-0.000 χ^2/NDF : 11143511547.7/17

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.922+/-0.000 χ^2/NDF : 12960370976.1/19

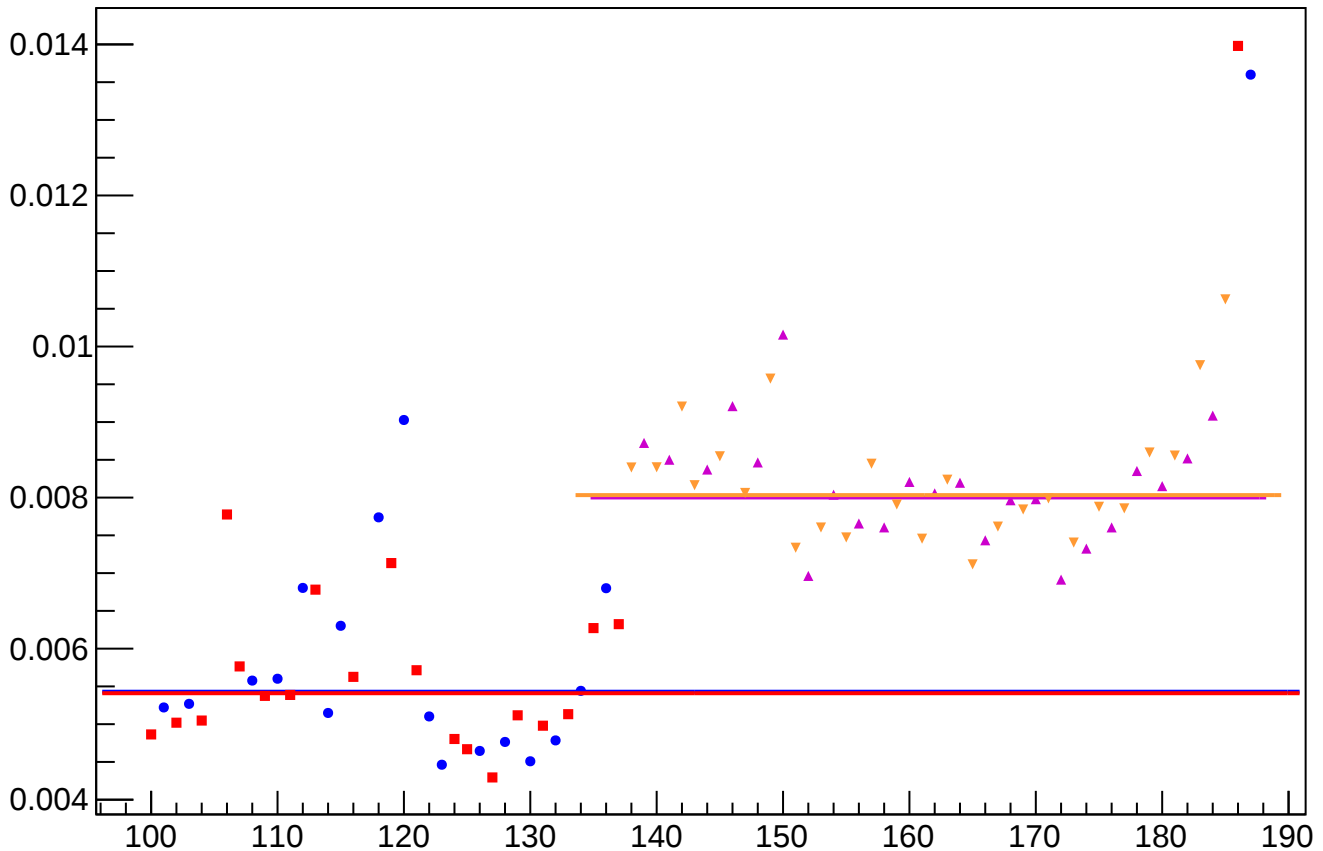
Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

+ sign -6.042+/-0.000 χ^2/NDF : 202707650172.5/42

All: -6.034+/-0.000 χ^2/NDF : 378711645554.9

- sign -6.026+/-0.000 χ^2/NDF : 175944630491.6/42

yield_bpm0l01Y_rms vs Slug



Right In: 0.005+/-0.000 χ^2/NDF : 468052.6/17

Left Out: 0.008+/-0.000 χ^2/NDF : 205762.2/24

Right Out: 0.005+/-0.000 χ^2/NDF : 518177.6/19

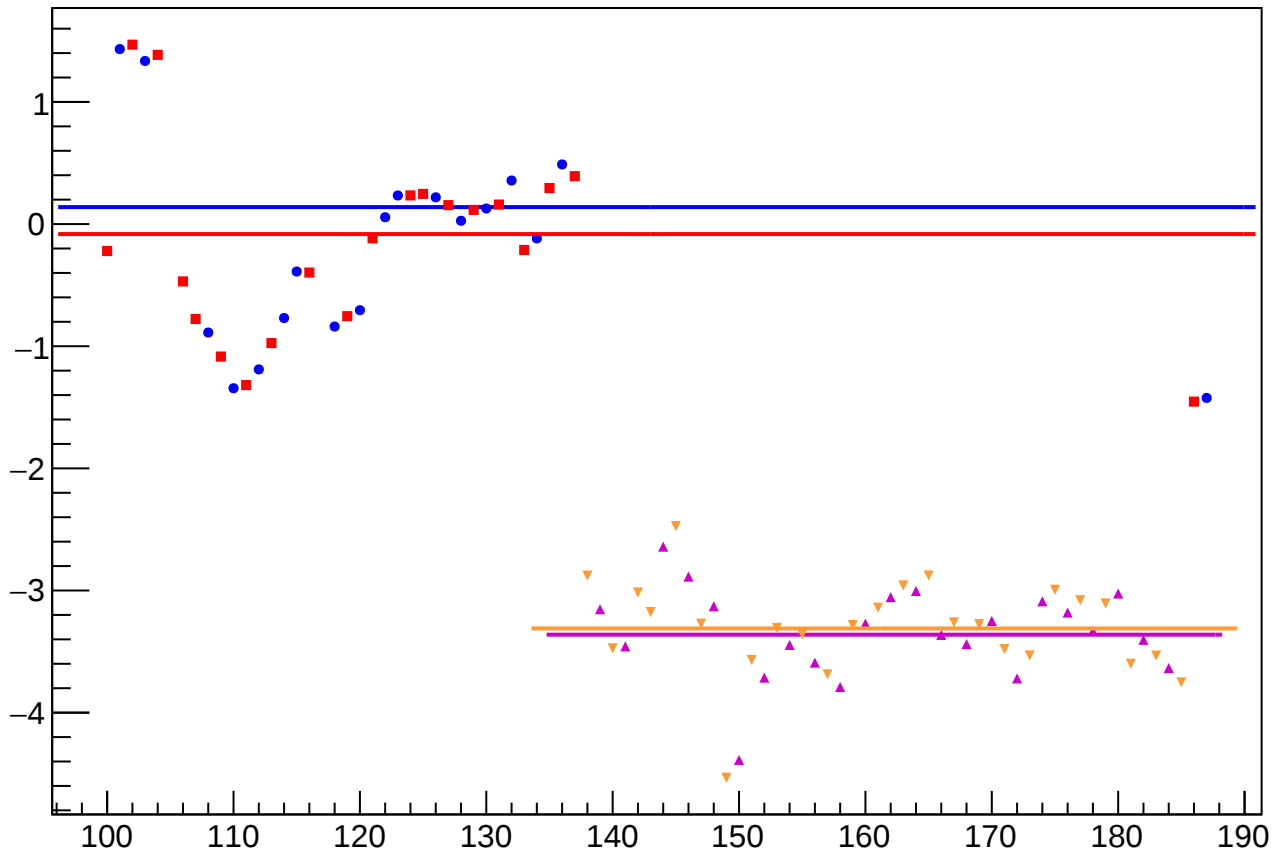
Left In: 0.008+/-0.000 χ^2/NDF : 220756.1/22

+ sign 0.007+/-0.000 χ^2/NDF : 2209696.1/42

All: 0.007+/-0.000 χ^2/NDF : 4534155.9/85

- sign 0.007+/-0.000 χ^2/NDF : 2317876.6/42

yield_bpm0l02X_mean vs Slug



Right In: 0.139+/-0.000 χ^2/NDF : 17770432618.3/17

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.082+/-0.000 χ^2/NDF : 22974726575.4/19

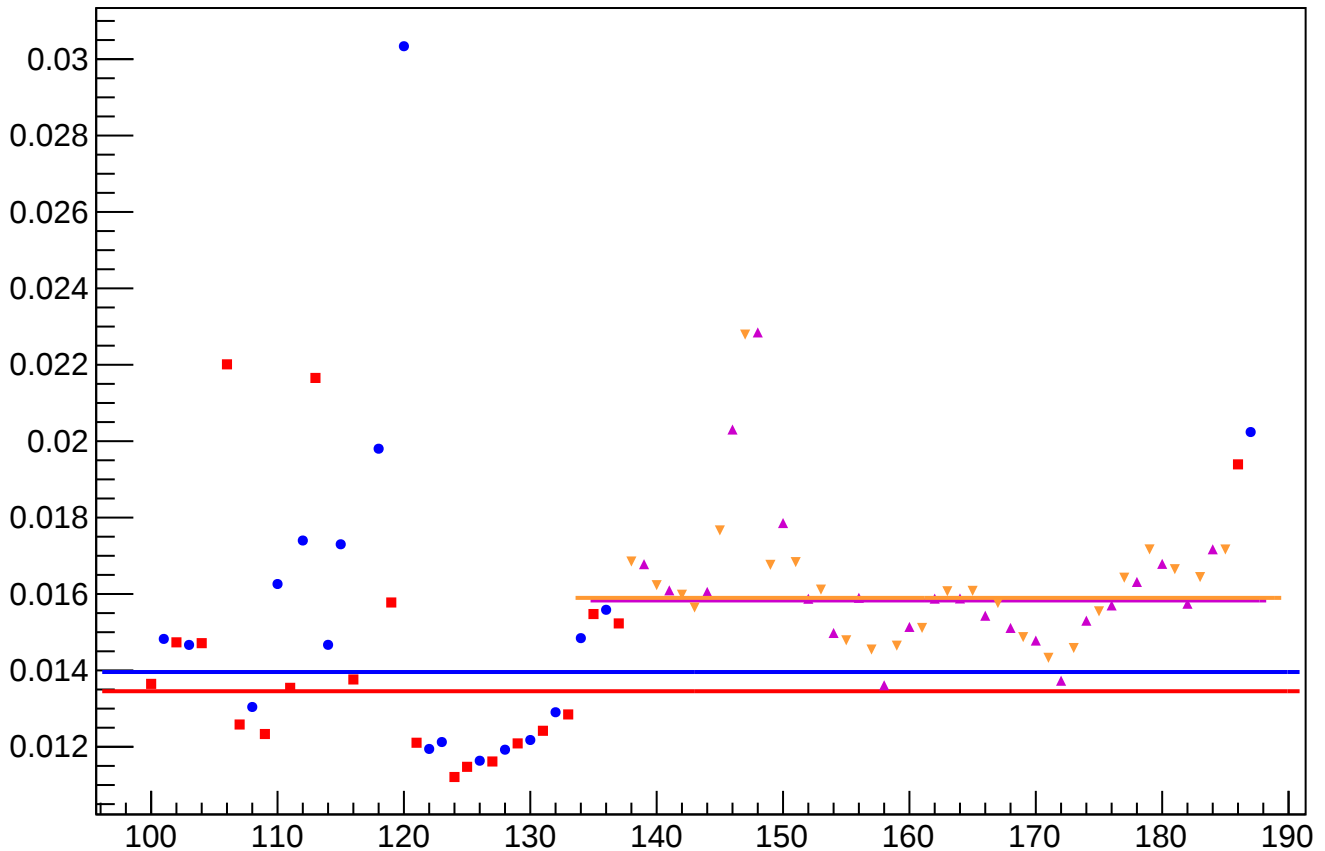
Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

+ sign -2.254+/-0.000 χ^2/NDF : 282144936407.0/42

All: -2.217+/-0.000 χ^2/NDF : 570212859142.1

- sign -2.181+/-0.000 χ^2/NDF : 287794376005.6/42

yield_bpm0l02X_rms vs Slug



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 427217.1/17

Left Out: 0.016 $\pm$ 0.000 χ^2 /NDF:251912.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 360027.1/19

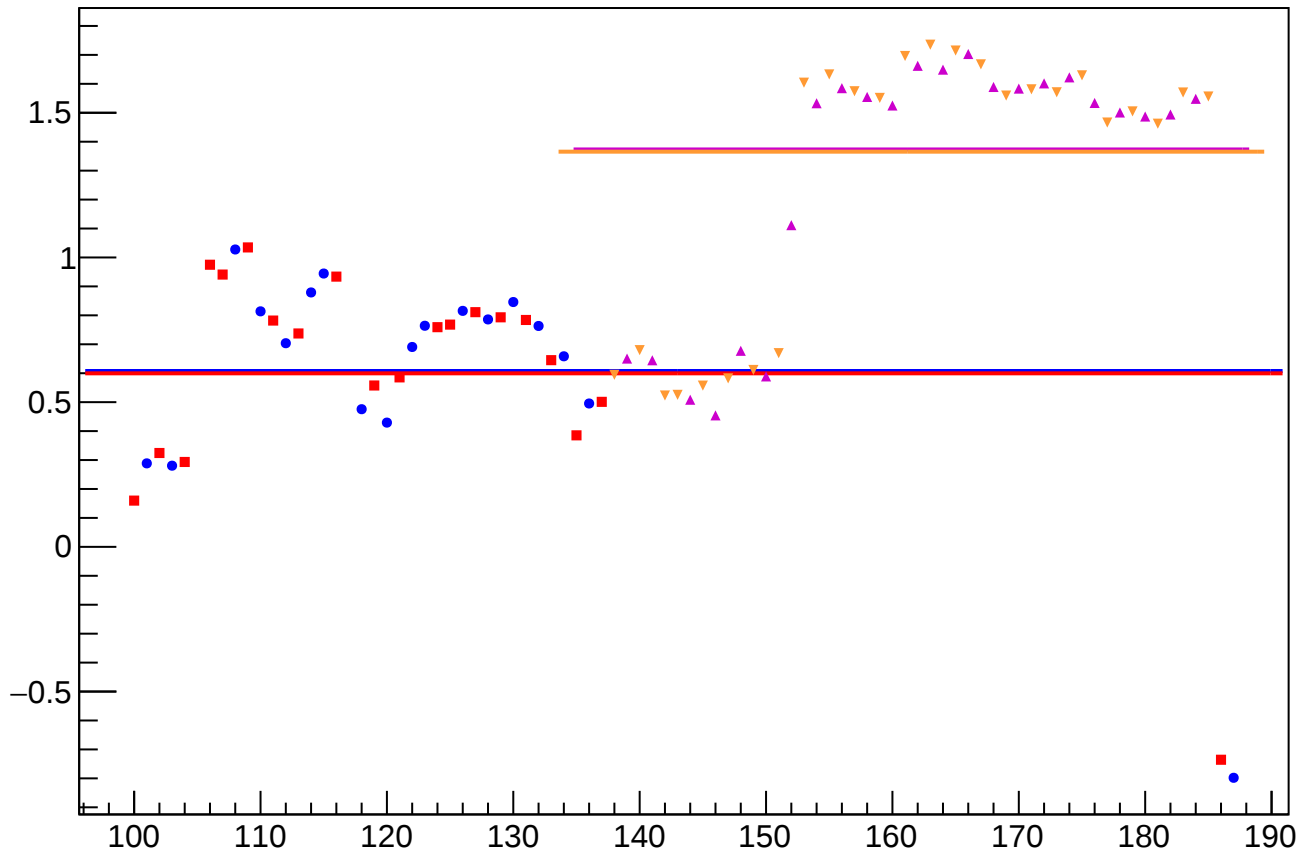
Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:339542.1/22

+ sign 0.015 $\pm$ 0.000 χ^2 /NDF: 840501.6/42

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 1820426.5/85

- sign 0.015 $\pm$ 0.000 χ^2 /NDF: 968894.1/42

yield_bpm0l02Y_mean vs Slug



Right In: 0.608 $\pm$ 0.000 χ^2 /NDF: 6761523365.3/17

Left Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 74741956067.9/24

Right Out: 0.600 $\pm$ 0.000 χ^2 /NDF: 10393878513.2/19

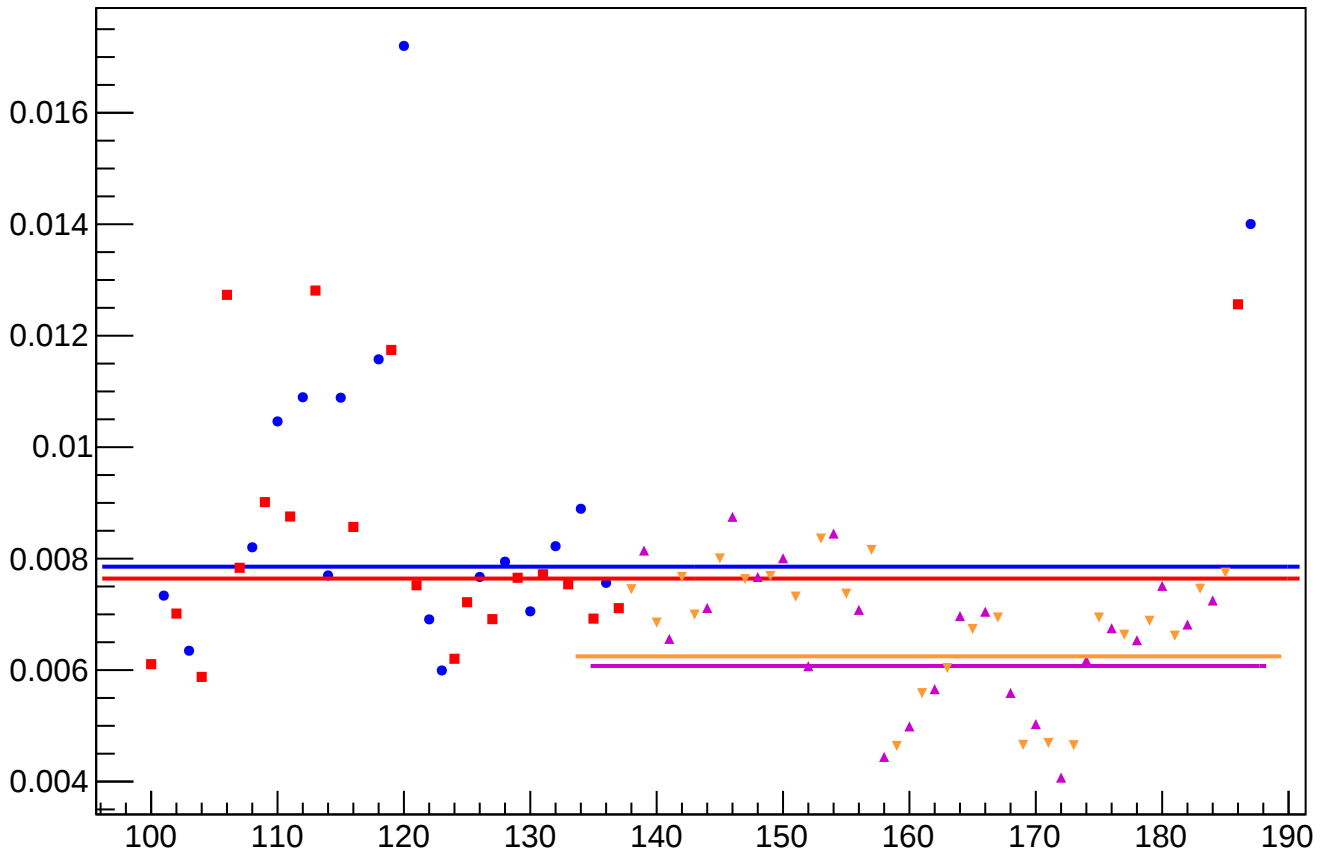
Left In: 1.373 $\pm$ 0.000 χ^2 /NDF: 63413151416.3/22

+ sign 1.227 $\pm$ 0.000 χ^2 /NDF: 126389247928.0/42

All: 1.220 $\pm$ 0.000 χ^2 /NDF: 252908785547.5

- sign 1.214 $\pm$ 0.000 χ^2 /NDF: 126476959359.8/42

yield_bpm0l02Y_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 519241.4/17

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 551712.9/19

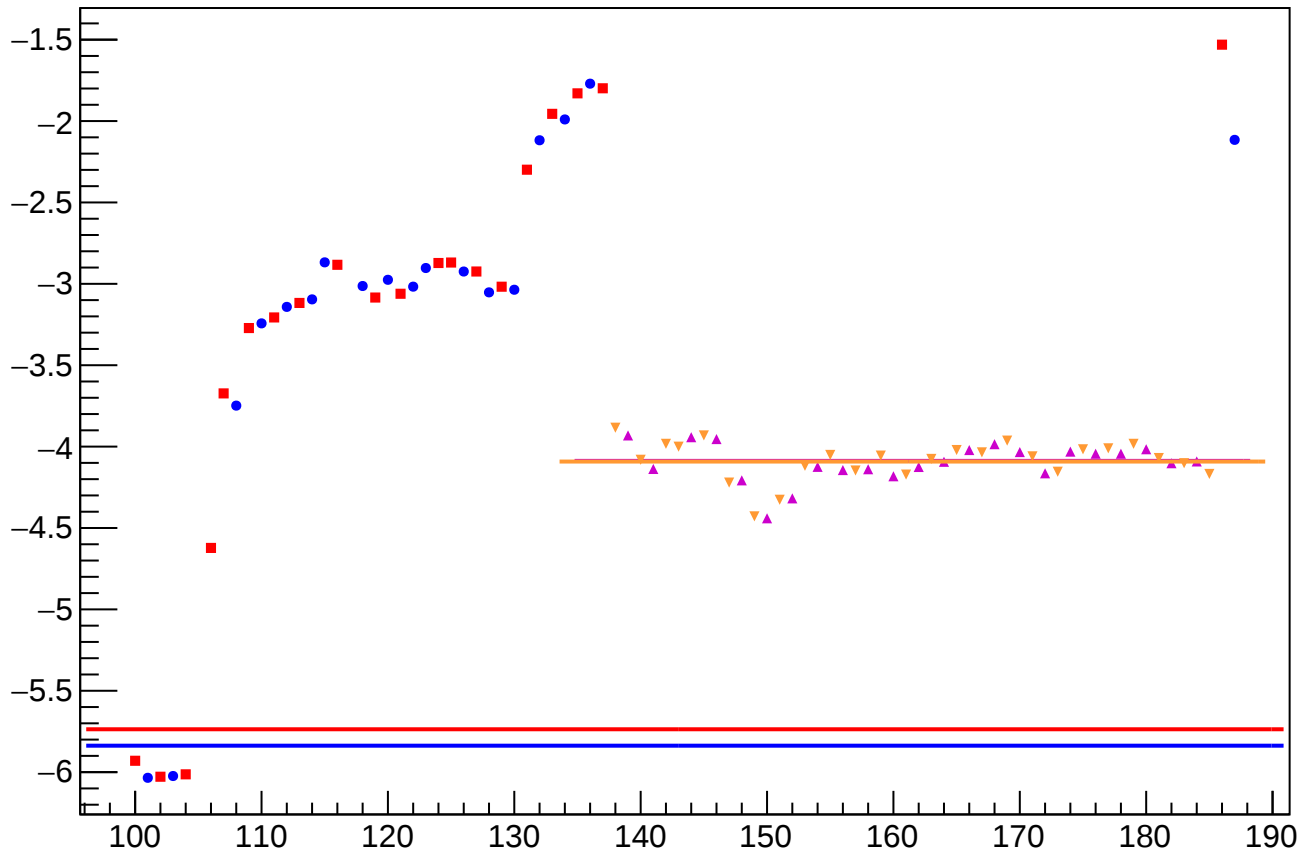
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 2254442.7/42

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 4682317.2/85

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 2416737.6/42

yield_bpm0l03X_mean vs Slug



Right In: -5.837+/-0.000 χ^2/NDF : 33064531592.3/17

Left Out: -4.092+/-0.000 χ^2/NDF : 39806766.7/24

Right Out: -5.737+/-0.000 χ^2/NDF : 44050217811.6/19

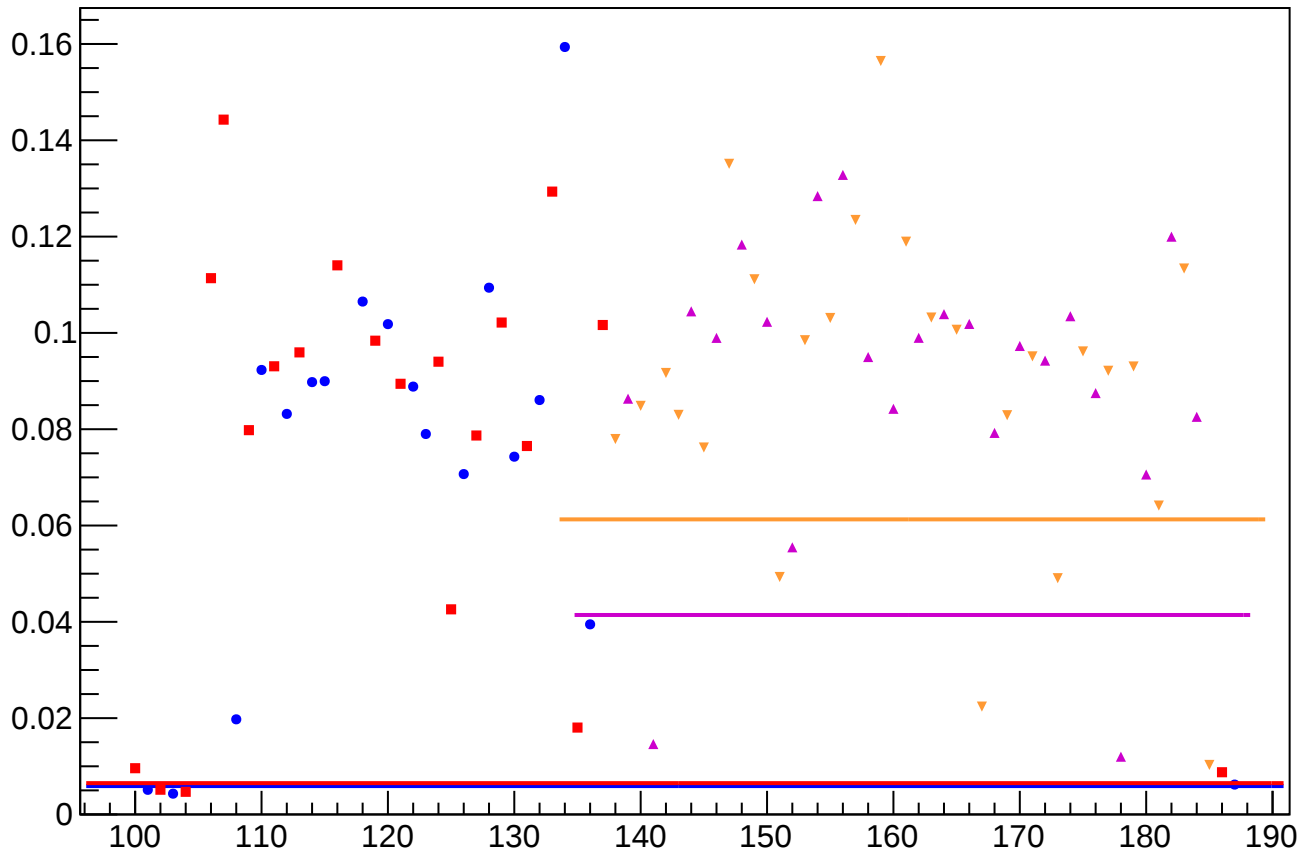
Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

+ sign -5.738+/-0.000 χ^2/NDF : 41588116183.6/42

All: -5.664+/-0.000 χ^2/NDF : 96759859022.1/42

- sign -5.577+/-0.000 χ^2/NDF : 54555522829.8/42

yield_bpm0l03X_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 7912292.7/17

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 8479427.7/19

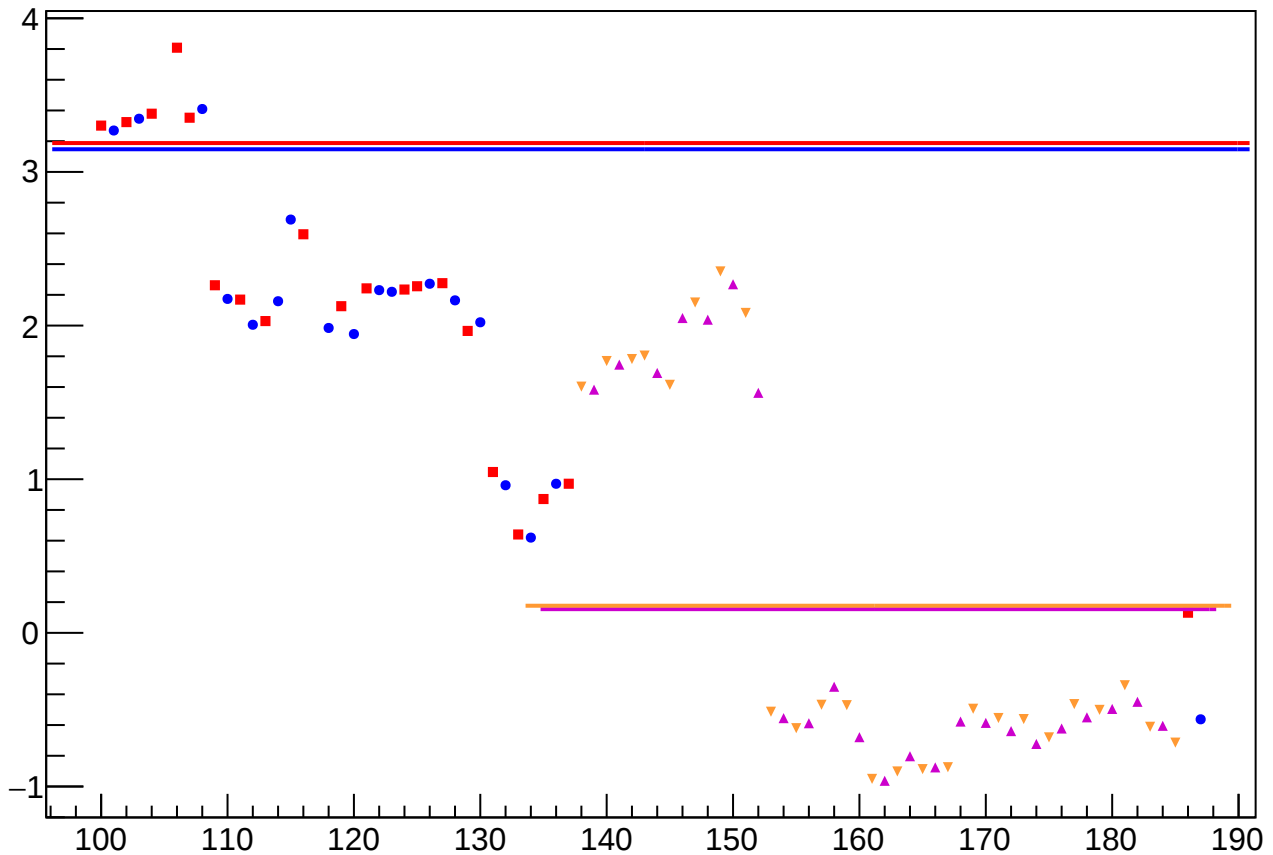
Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

+ sign 0.009 $\pm$ 0.000 χ^2 /NDF: 33348238.9/42

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 64377988.7/85

- sign 0.010 $\pm$ 0.000 χ^2 /NDF: 30996737.2/42

yield_bpm0l03Y_mean vs Slug



Right In: 3.148 $\pm$ 0.000 χ^2 /NDF: 15248945241.6/17

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF:3275313367.7/24

Right Out: 3.188 $\pm$ 0.000 χ^2 /NDF: 11805023519.0/19

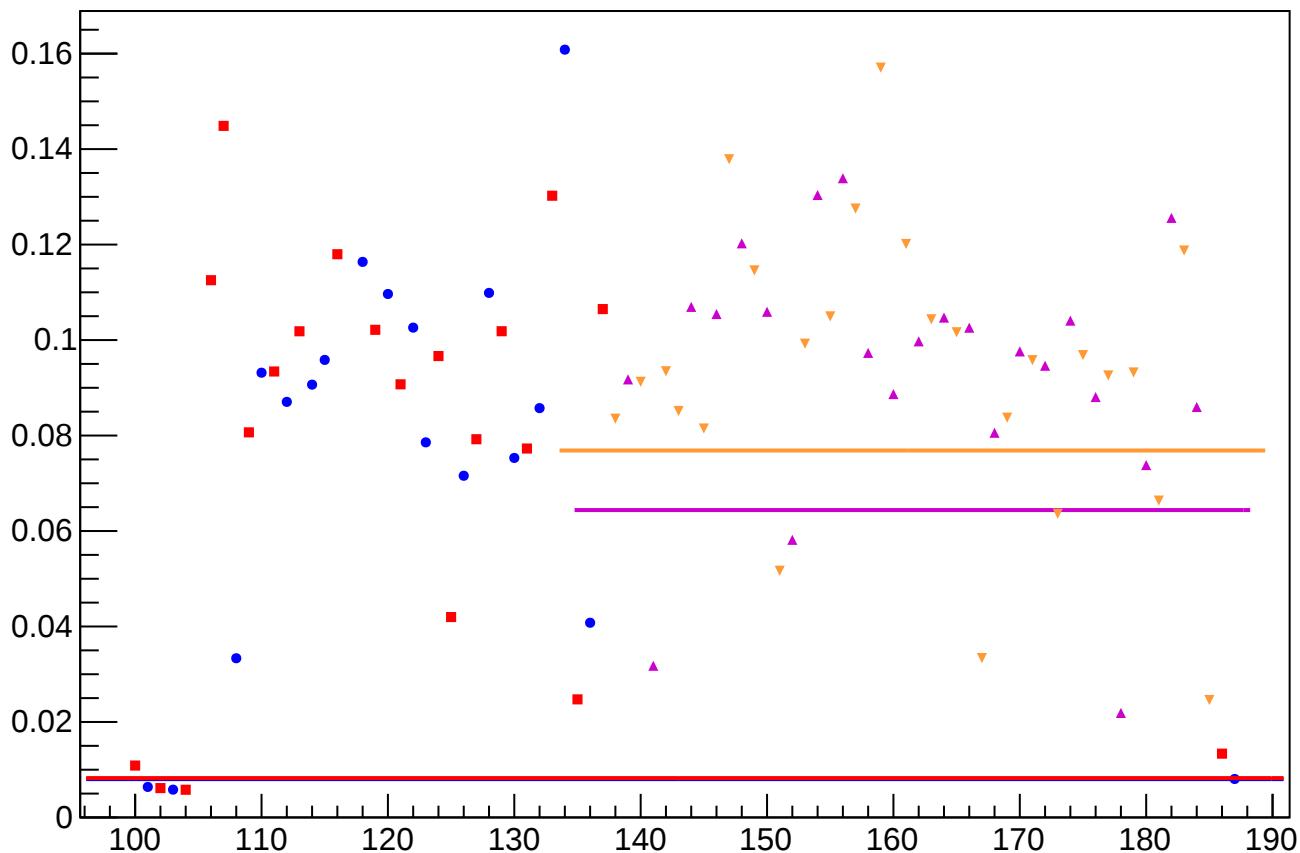
Left In: 0.154 $\pm$ 0.000 χ^2 /NDF:3163553595.0/22

+ sign 2.936 $\pm$ 0.000 χ^2 /NDF: 37112878106.0/42

All: 2.932 $\pm$ 0.000 χ^2 /NDF: 73774692569.0/8

- sign 2.927 $\pm$ 0.000 χ^2 /NDF: 36660317932.6/42

yield_bpm0l03Y_rms vs Slug



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7721104.7/17

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8322262.3/19

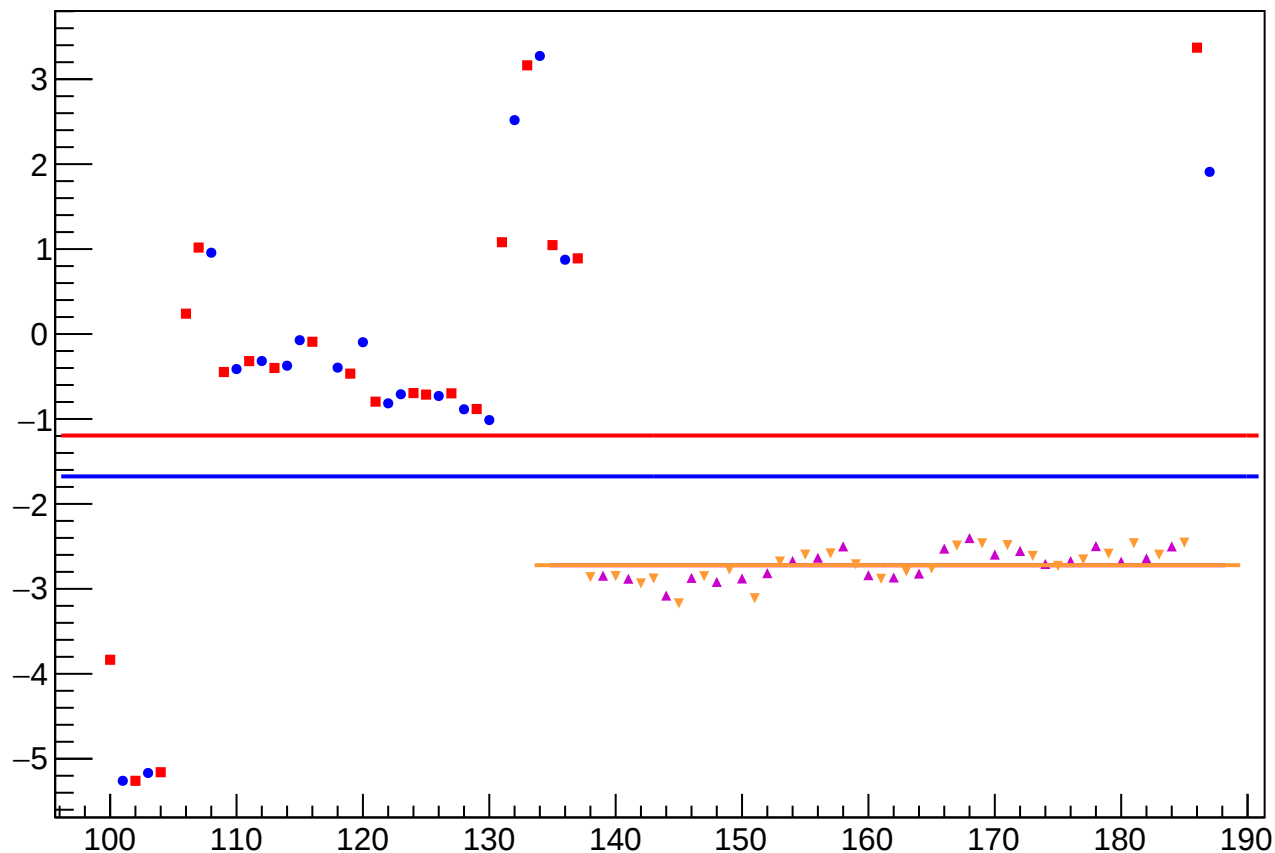
Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

+ sign 0.013 $\pm$ 0.000 χ^2 /NDF: 31899282.3/42

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62071331.5/85

- sign 0.013 $\pm$ 0.000 χ^2 /NDF: 30171246.2/42

yield_bpm0l04X_mean vs Slug



Right In: -1.676+/-0.000 χ^2/NDF : 168644879539.0/17

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.195+/-0.000 χ^2/NDF : 190764365949.6/19

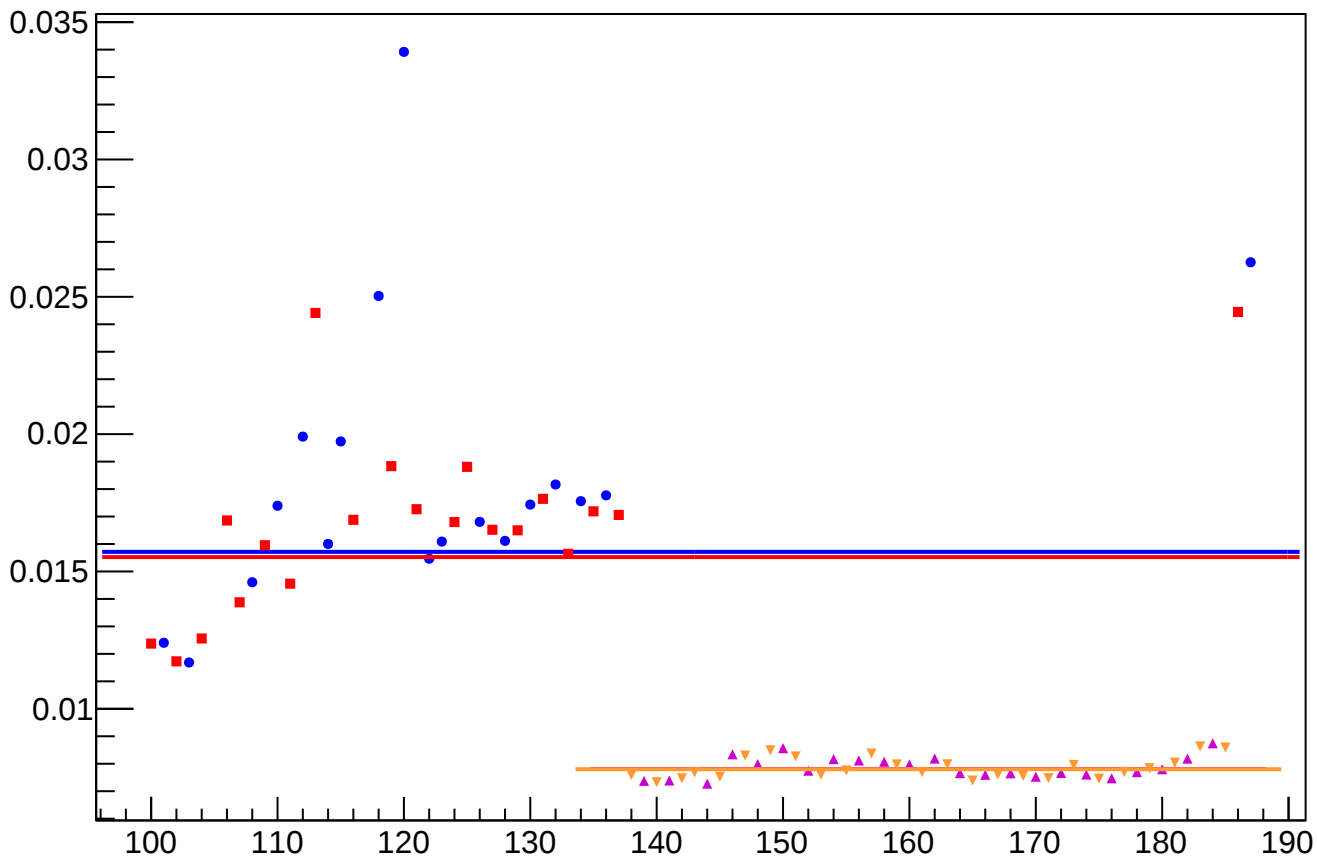
Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

+ sign -2.644+/-0.000 χ^2/NDF : 202400603207.8/42

All: -2.615+/-0.000 χ^2/NDF : 458991927348.8

- sign -2.585+/-0.000 χ^2/NDF : 256053514873.1/42

yield_bpm0l04X_rms vs Slug



Right In: 0.016 $\pm$ 0.000 χ^2/NDF : 619359.1/17

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 71164.4/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 443528.5/19

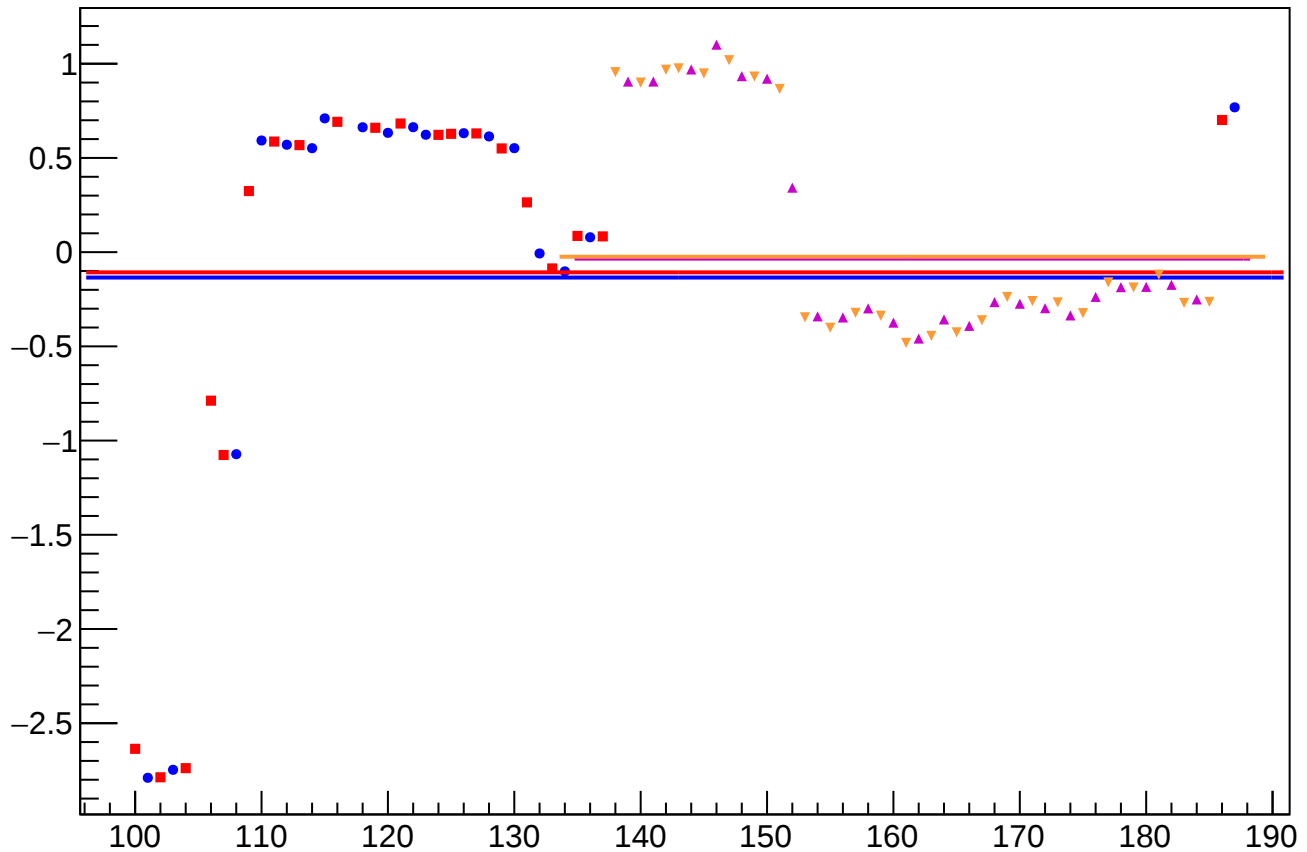
Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 67610.2/22

+ sign 0.008 $\pm$ 0.000 χ^2/NDF : 3369745.9/42

All: 0.008 $\pm$ 0.000 χ^2/NDF : 6801255.6/85

- sign 0.009 $\pm$ 0.000 χ^2/NDF : 3427158.9/42

yield_bpm0l04Y_mean vs Slug



Right In: -0.135 ± 0.000 χ^2/NDF : 717133528831.5/17

Left Out: -0.024 ± 0.000 χ^2/NDF : 135451649275.0/24

Right Out: -0.107 ± 0.000 χ^2/NDF : 770026930029.3/19

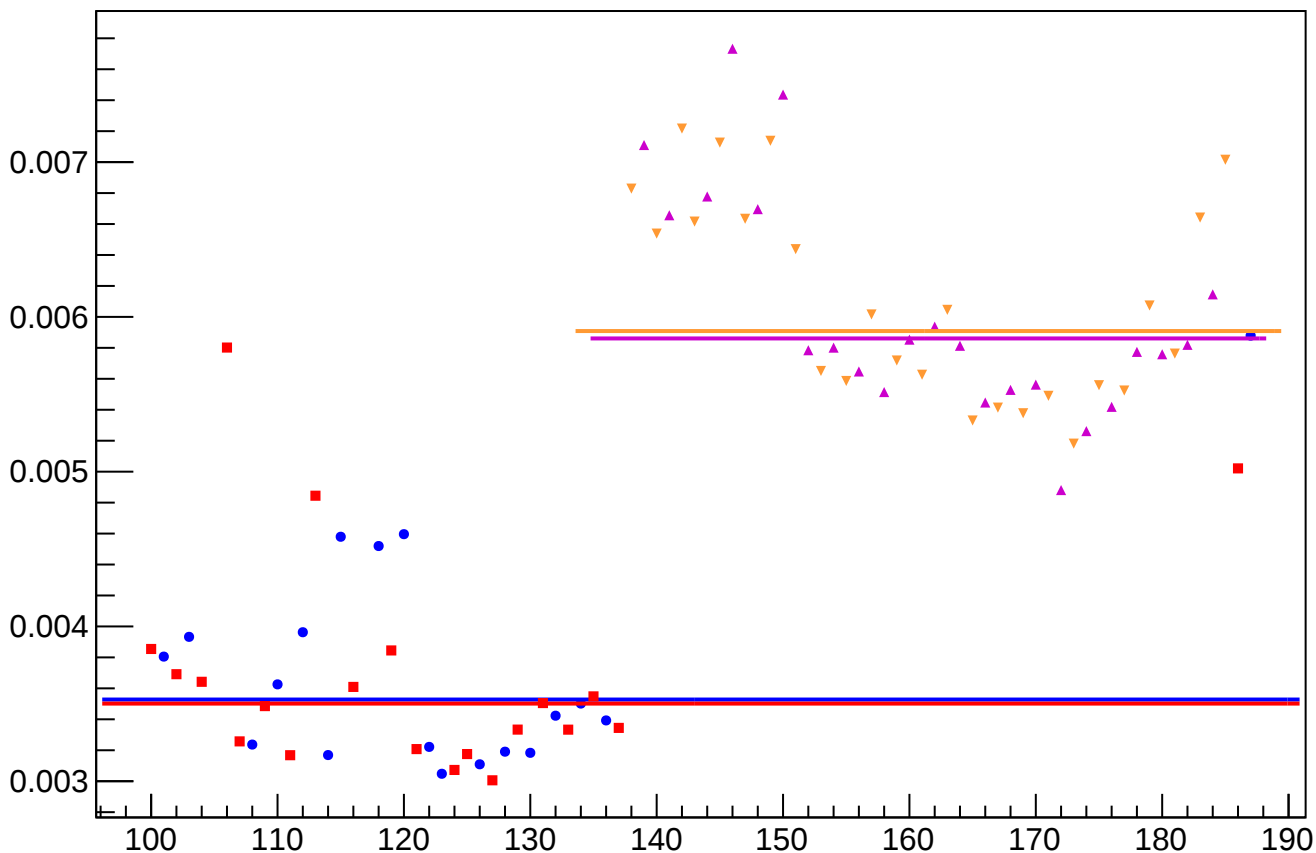
Left In: -0.034 ± 0.000 χ^2/NDF : 113929060918.1/22

+ sign -0.081 ± 0.000 χ^2/NDF : 855632073336.9/42

All: -0.078 ± 0.000 χ^2/NDF : 1740974834661

- sign -0.075 ± 0.000 χ^2/NDF : 885319906574.0/42

yield_bpm0l04Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 214932.0/17

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 281822.2/19

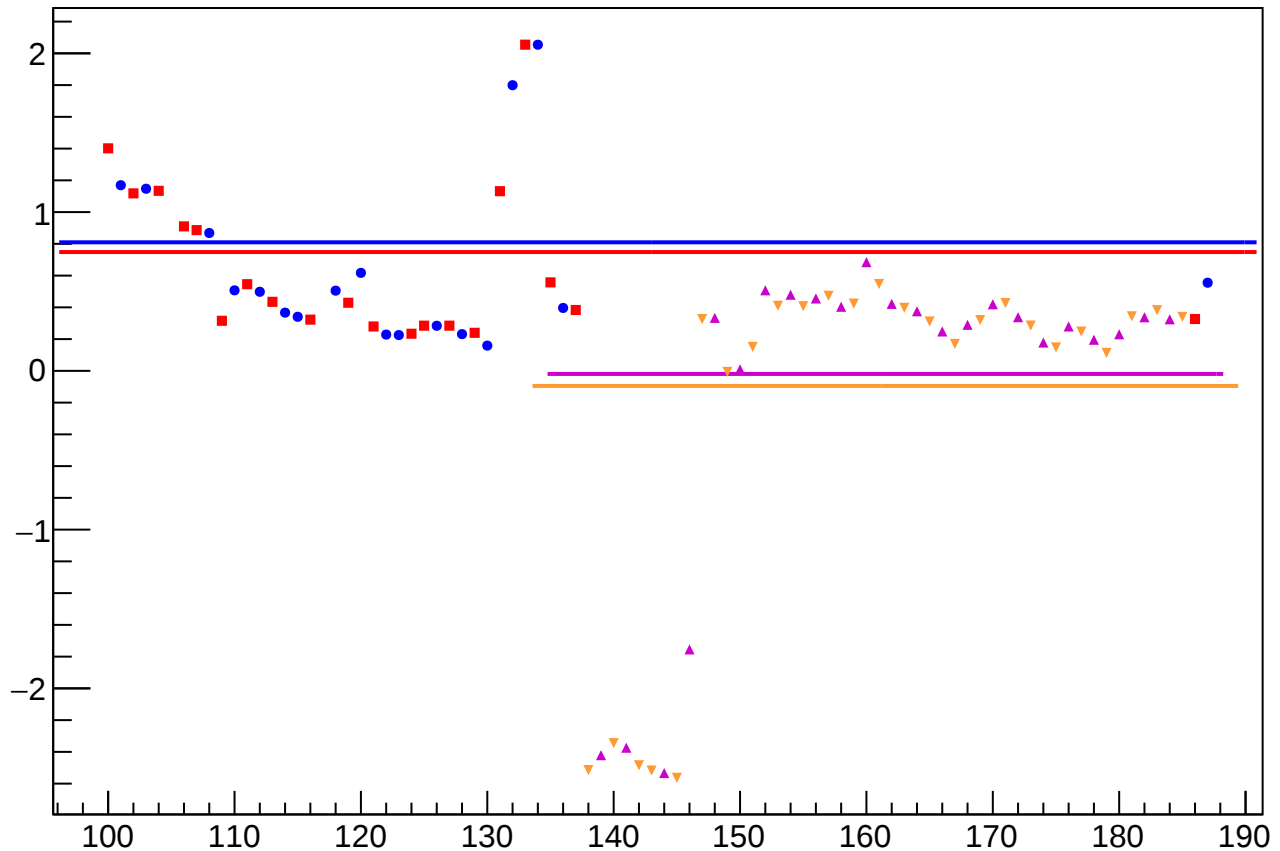
Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

+ sign 0.005+/-0.000 χ^2/NDF : 3352891.5/42

All: 0.005+/-0.000 χ^2/NDF : 6871601.4/85

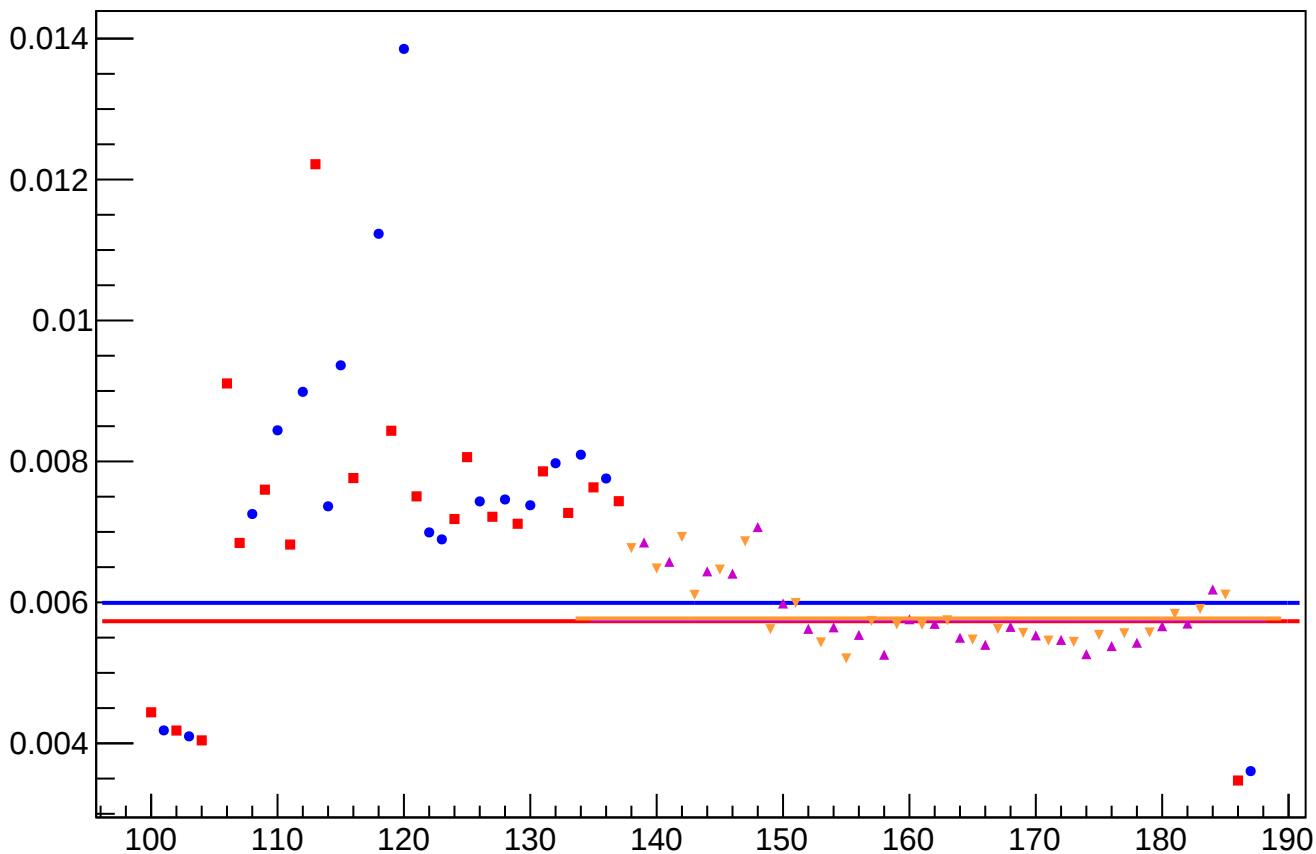
- sign 0.005+/-0.000 χ^2/NDF : 3504007.1/42

yield_bpm0l05X_mean vs Slug



Right In: 0.810+/-0.000	χ^2/NDF : 32402533284.5/17	+ sign 0.109+/-0.000	χ^2/NDF : 632923082297.5/42
Left Out: -0.095+/-0.000	χ^2/NDF : 505606573631.9/24	All: 0.148+/-0.000	χ^2/NDF : 1170169821782.
Right Out: 0.748+/-0.000	χ^2/NDF : 39745092507.3/19	- sign 0.187+/-0.000	χ^2/NDF : 535169308397.0/42
Left In: -0.019+/-0.000	χ^2/NDF : 417104863944.5/22		

yield_bpm0l05X_rms vs Slug



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1352091.1/17

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:177680.7/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1385774.3/19

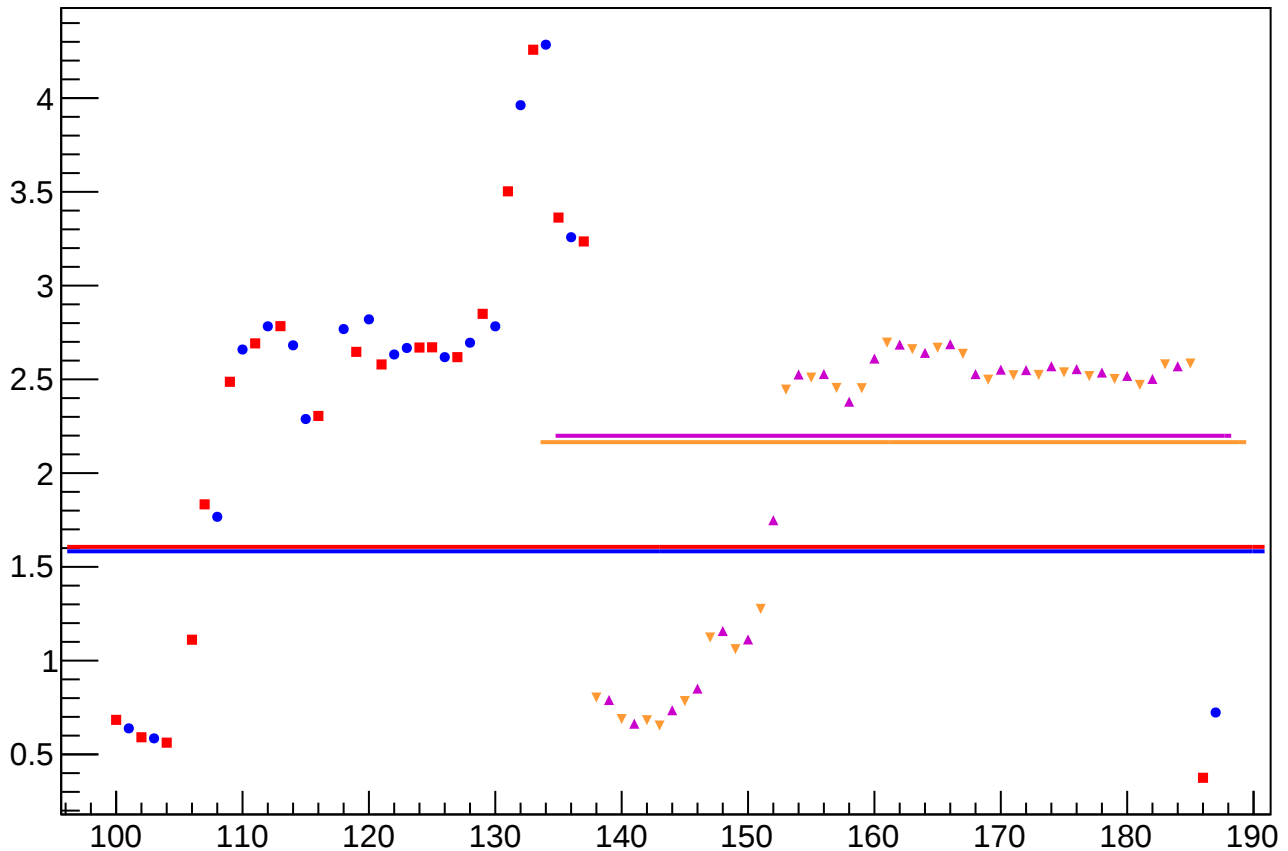
Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:204066.4/22

+ sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1541135.3/42

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 3135213.9/85

- sign 0.006 $\pm$ 0.000 χ^2 /NDF: 1589890.2/42

yield_bpm0l05Y_mean vs Slug



Right In: 1.583 $\pm$ 0.000 χ^2 /NDF: 206849923995.8/17

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 1.607 $\pm$ 0.000 χ^2 /NDF: 246467374280.5/19

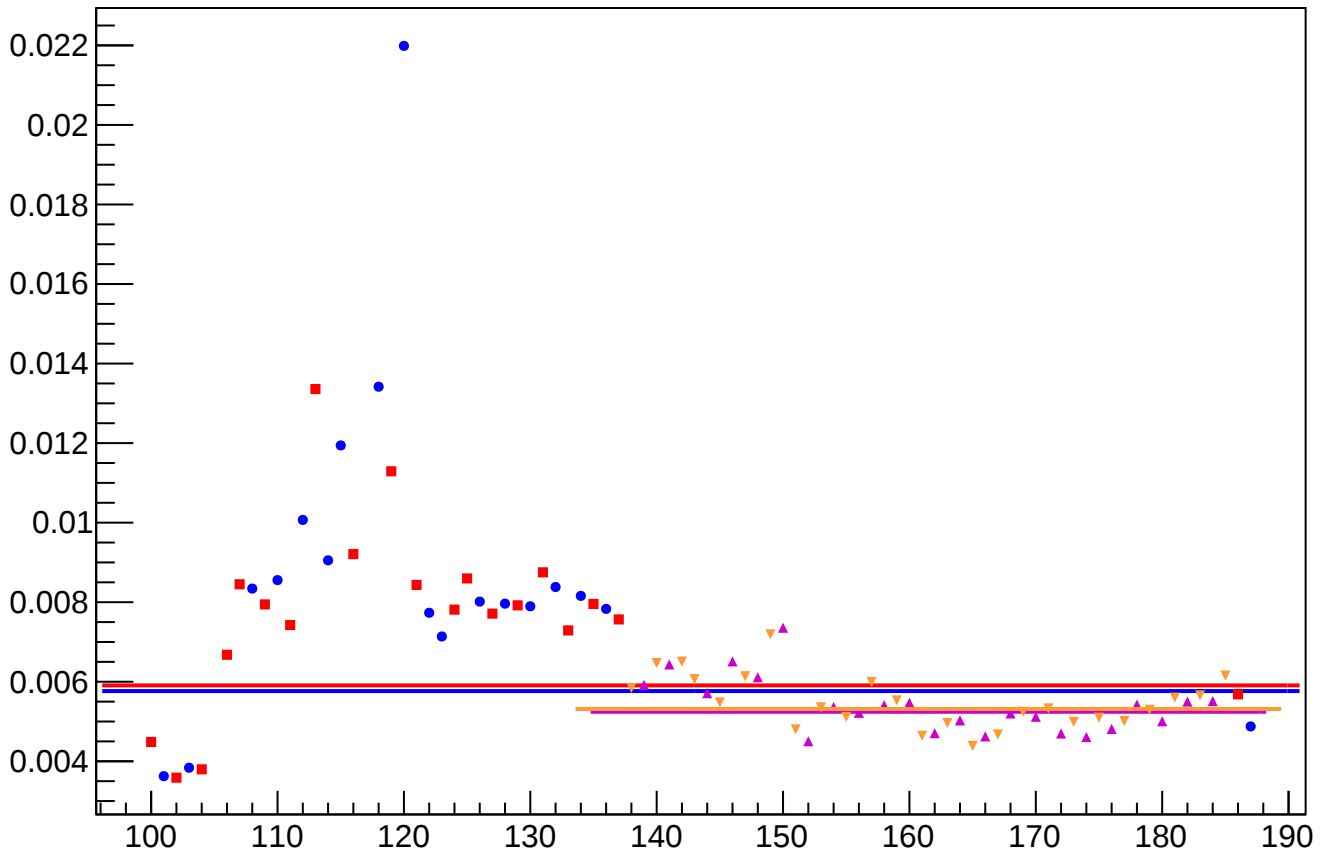
Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

+ sign 2.048 $\pm$ 0.000 χ^2 /NDF: 539812729122.3/42

All: 2.058 $\pm$ 0.000 χ^2 /NDF: 1084287663682.

- sign 2.067 $\pm$ 0.000 χ^2 /NDF: 544331948244.9/42

yield_bpm0l05Y_rms vs Slug



Right In: 0.006+/-0.000 χ^2/NDF : 1920303.3/17

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1678458.9/19

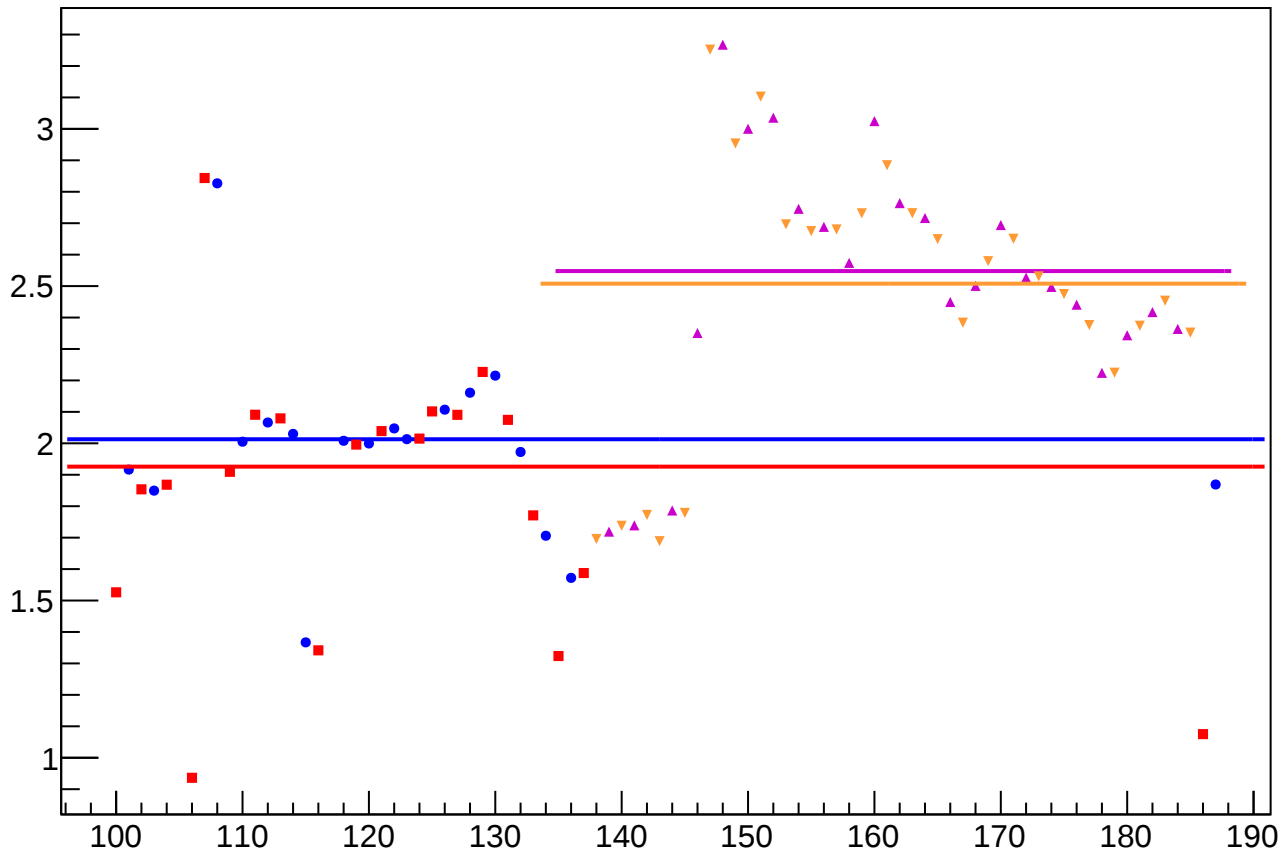
Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

+ sign 0.005+/-0.000 χ^2/NDF : 2367219.4/42

All: 0.005+/-0.000 χ^2/NDF : 4583404.4/85

- sign 0.005+/-0.000 χ^2/NDF : 2216055.4/42

yield_bpm0l06X_mean vs Slug



Right In: 2.013 $\pm$ 0.000 χ^2 /NDF: 12233446558.1/17

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.926 $\pm$ 0.000 χ^2 /NDF: 23707679607.4/19

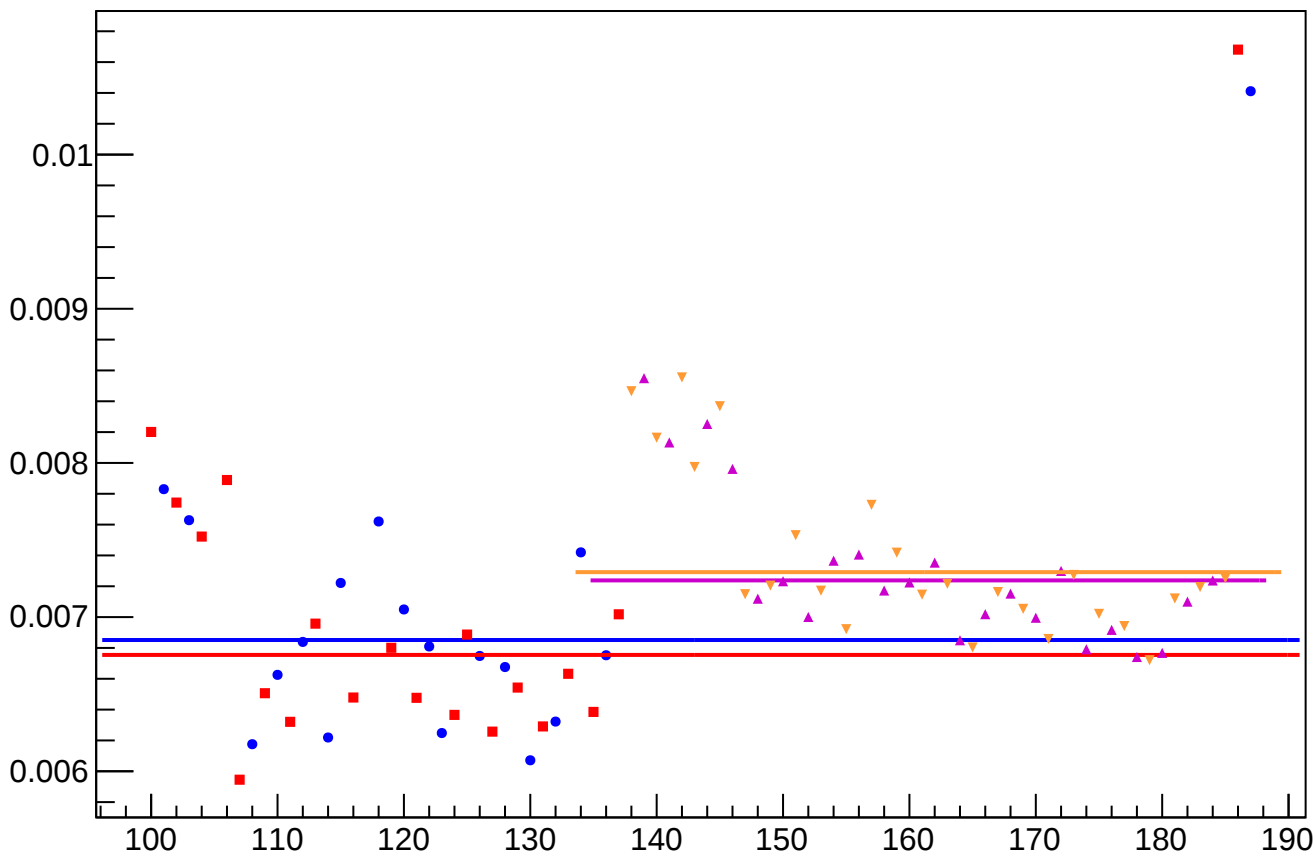
Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

+ sign 2.362 $\pm$ 0.000 χ^2 /NDF: 88331004052.9/42

All: 2.353 $\pm$ 0.000 χ^2 /NDF: 197711084070.0

- sign 2.344 $\pm$ 0.000 χ^2 /NDF: 109303035380.0/42

yield_bpm0l06X_rms vs Slug



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 109151.9/17

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 174359.1/19

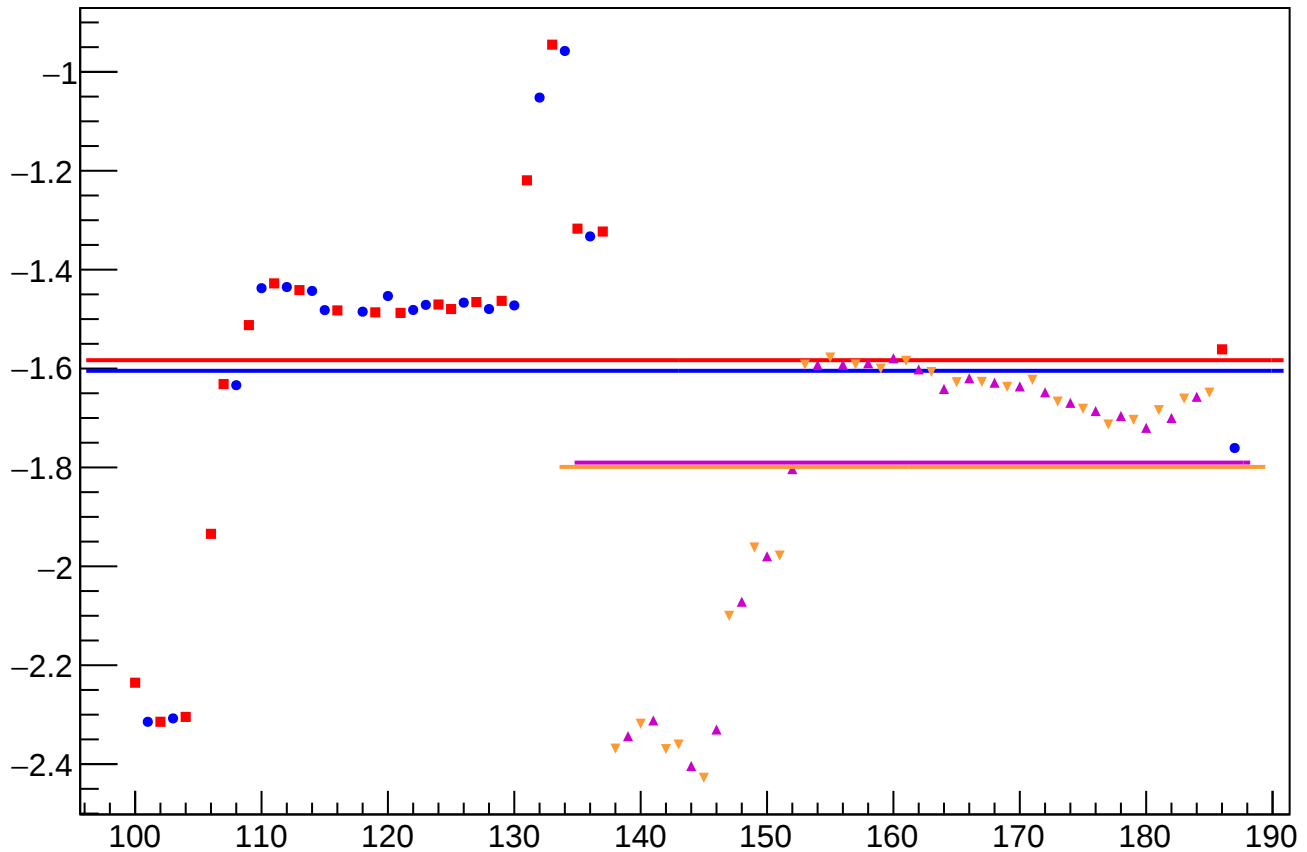
Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:125233.2/22

+ sign 0.007 $\pm$ 0.000 χ^2 /NDF: 287521.5/42

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 638916.7/85

- sign 0.007 $\pm$ 0.000 χ^2 /NDF: 348218.7/42

yield_bpm0l06Y_mean vs Slug



Right In: -1.605+/-0.000 χ^2 /NDF: 140509803030.3/17

Left Out: -1.799+/-0.000 χ^2 /NDF: 185362087438.8/24

Right Out: -1.583+/-0.000 χ^2 /NDF: 143844659240.6/19

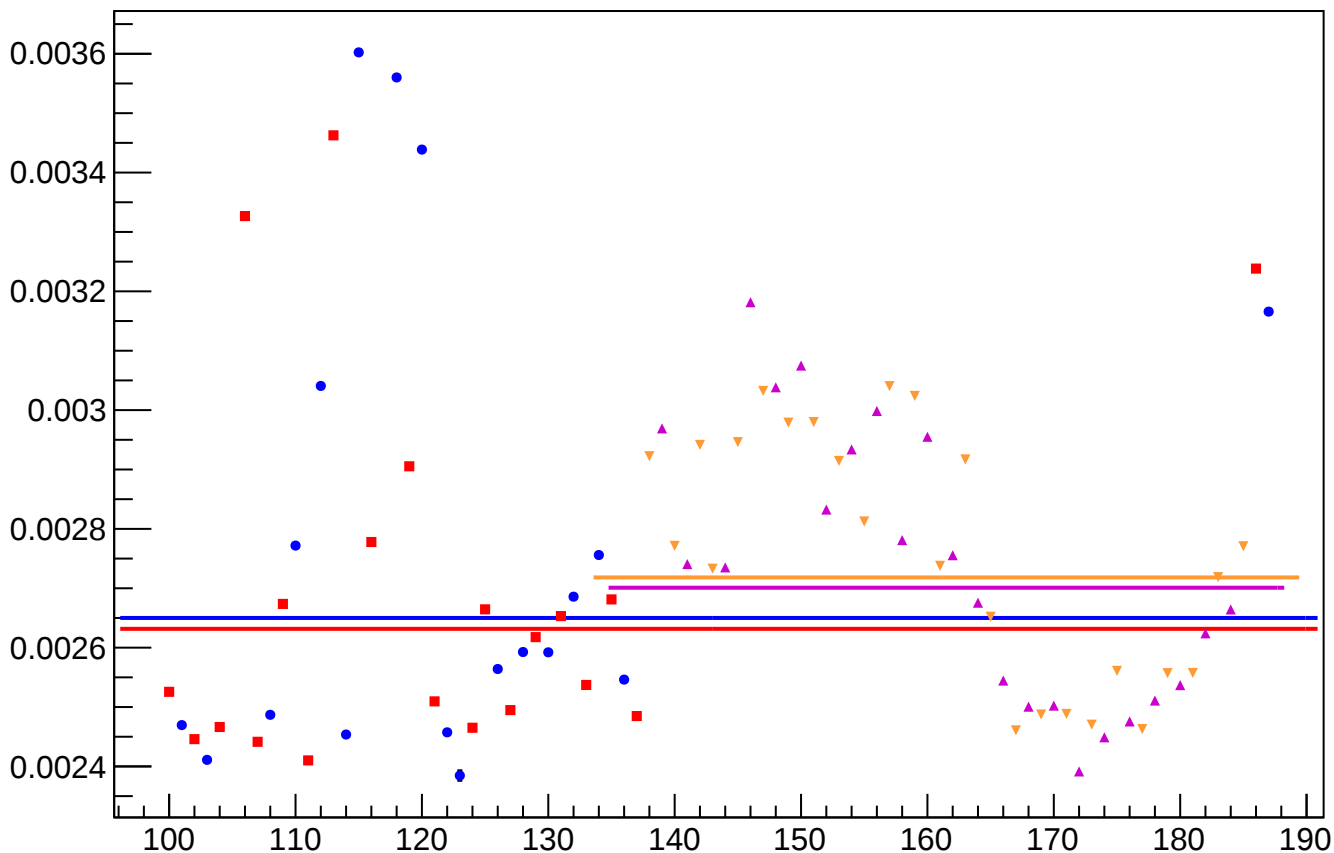
Left In: -1.790+/-0.000 χ^2 /NDF: 159648935510.8/22

+ sign -1.745+/-0.000 χ^2 /NDF: 350708893142.0/42

All: -1.736+/-0.000 χ^2 /NDF: 684804607849.9

- sign -1.726+/-0.000 χ^2 /NDF: 333528802690.9/42

yield_bpm0l06Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 159319.7/17

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 131580.5/19

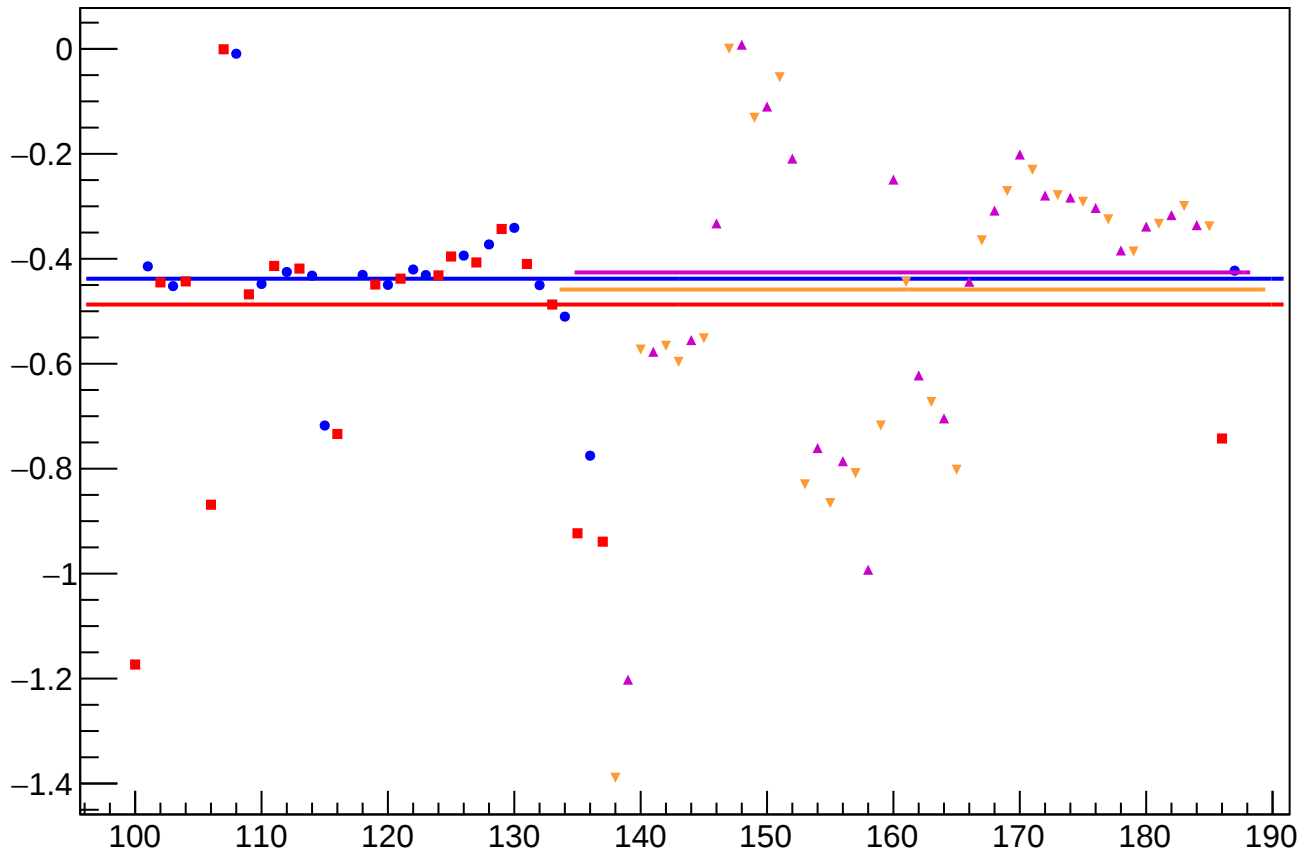
Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

+ sign 0.003+/-0.000 χ^2/NDF : 365132.0/42

All: 0.003+/-0.000 χ^2/NDF : 725029.4/85

- sign 0.003+/-0.000 χ^2/NDF : 358623.9/42

yield_bpm0l07X_mean vs Slug



Right In: -0.438 ± 0.000 χ^2/NDF : 1461298392.9/17

Left Out: -0.459 ± 0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.487 ± 0.000 χ^2/NDF : 2767234975.8/19

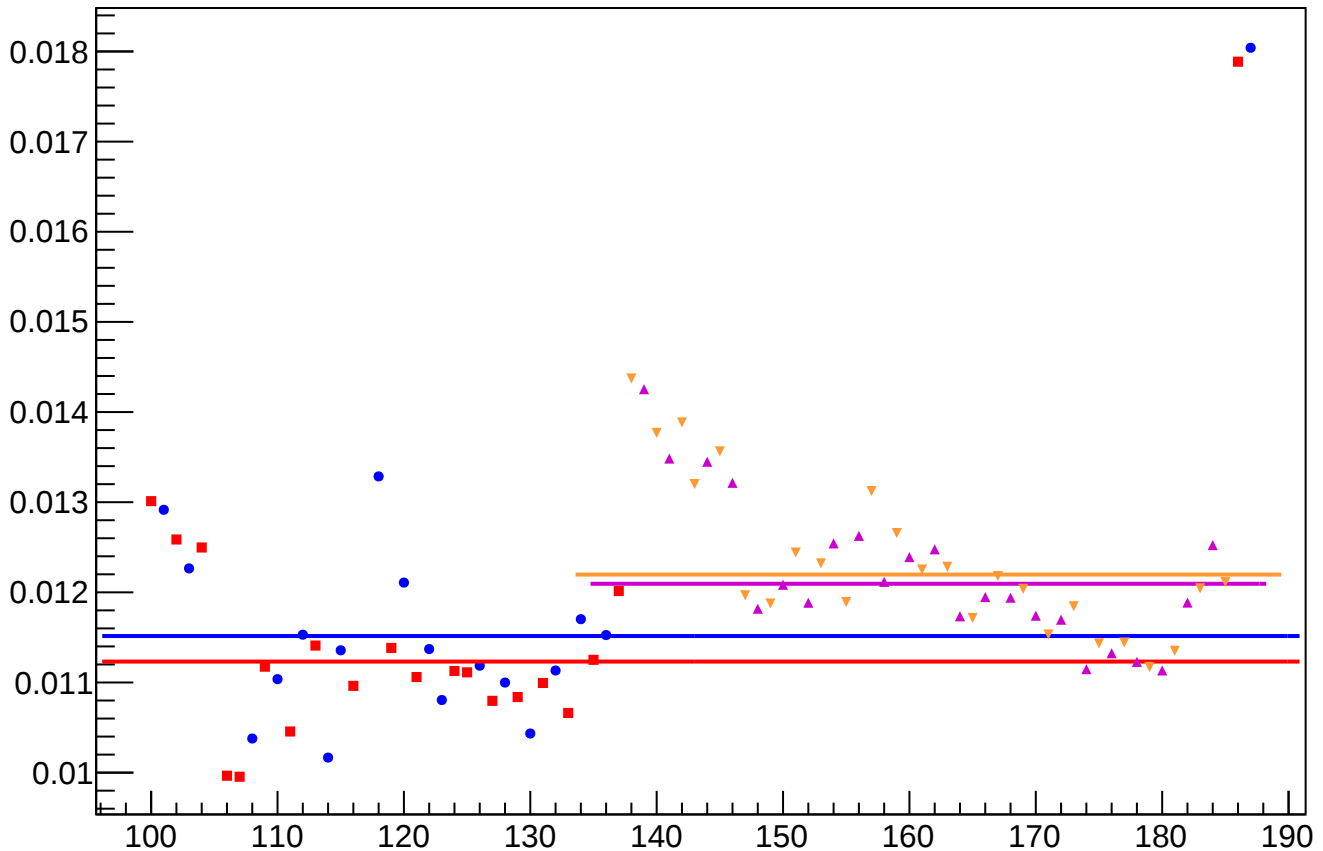
Left In: -0.426 ± 0.000 χ^2/NDF : 8424222576.0/22

+ sign -0.452 ± 0.000 χ^2/NDF : 11392479058.2/42

All: -0.449 ± 0.000 χ^2/NDF : 22729466616.3/42

- sign -0.447 ± 0.000 χ^2/NDF : 11334006723.5/42

yield_bpm0l07X_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 100633.6/17

Left Out: 0.012 $\pm$ 0.000 χ^2/NDF : 141850.9/24

Right Out: 0.011 $\pm$ 0.000 χ^2/NDF : 156444.2/19

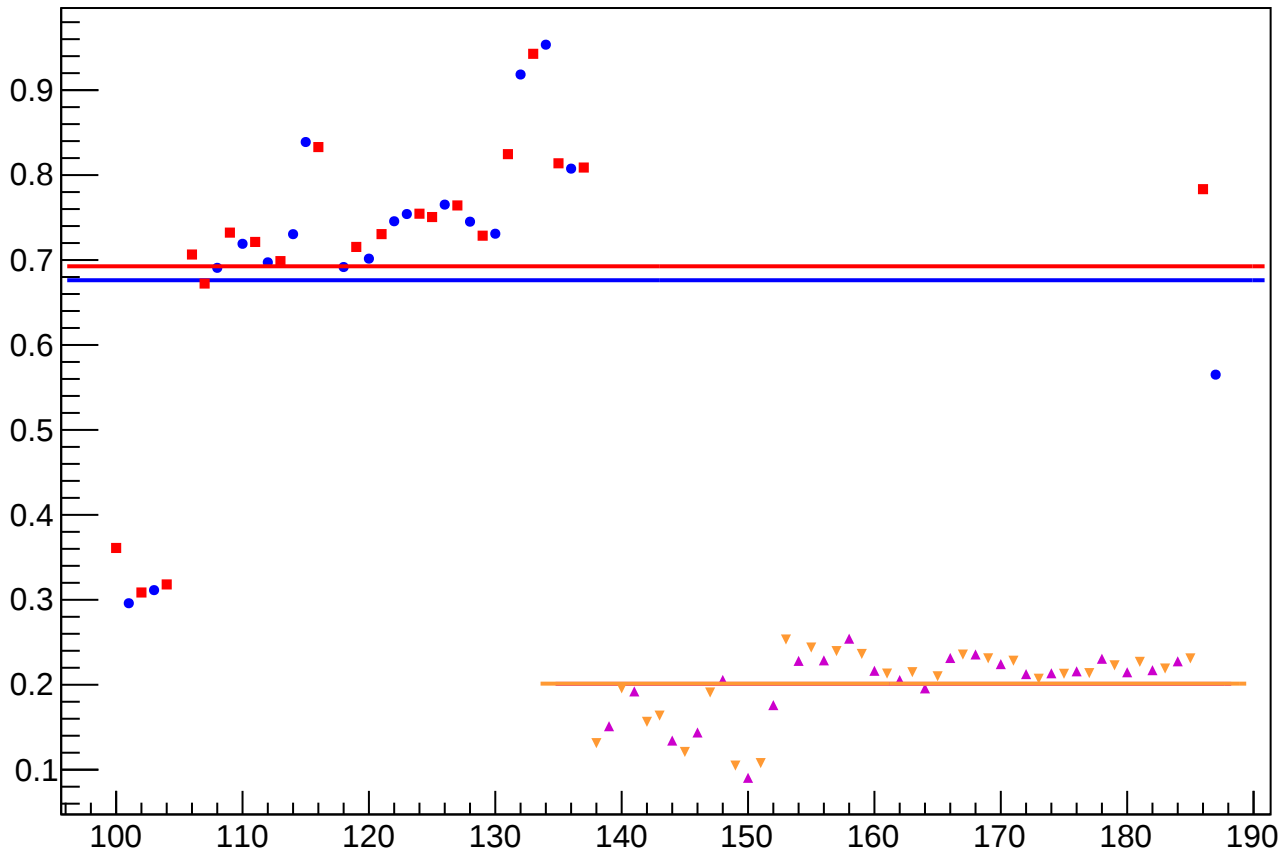
Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 127308.3/22

+ sign 0.012 $\pm$ 0.000 χ^2/NDF : 274939.7/42

All: 0.012 $\pm$ 0.000 χ^2/NDF : 621485.0/85

- sign 0.012 $\pm$ 0.000 χ^2/NDF : 340431.1/42

yield_bpm0l07Y_mean vs Slug



Right In: 0.676 $\pm$ 0.000 χ^2 /NDF: 38708343978.8/17

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.693 $\pm$ 0.000 χ^2 /NDF: 35686377380.0/19

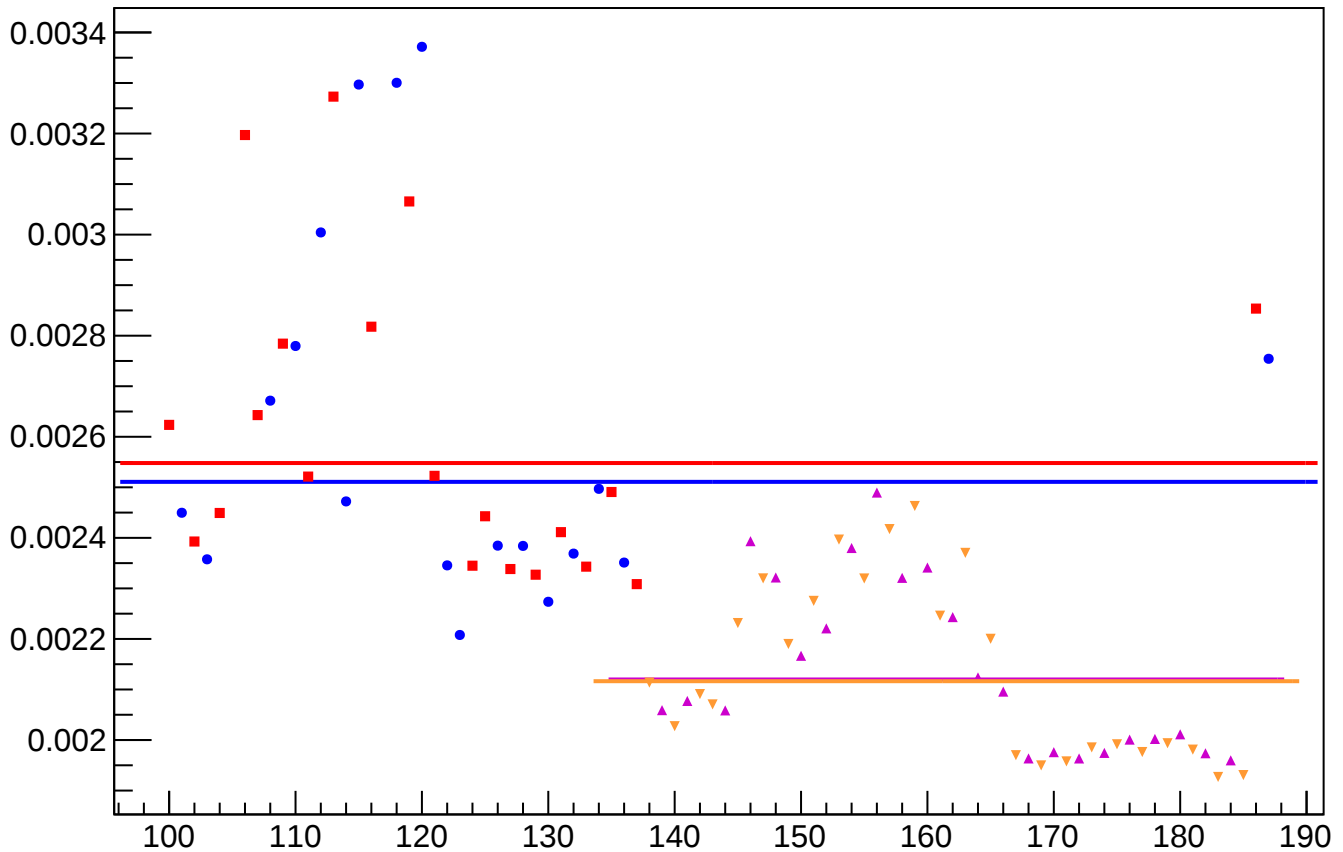
Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

+ sign 0.297 $\pm$ 0.000 χ^2 /NDF: 230673912775.2/42

All: 0.304 $\pm$ 0.000 χ^2 /NDF: 476465201784.5

- sign 0.310 $\pm$ 0.000 χ^2 /NDF: 245402078640.0/42

yield_bpm0l07Y_rms vs Slug



Right In: 0.003+/-0.000 χ^2/NDF : 176539.4/17

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 140510.1/19

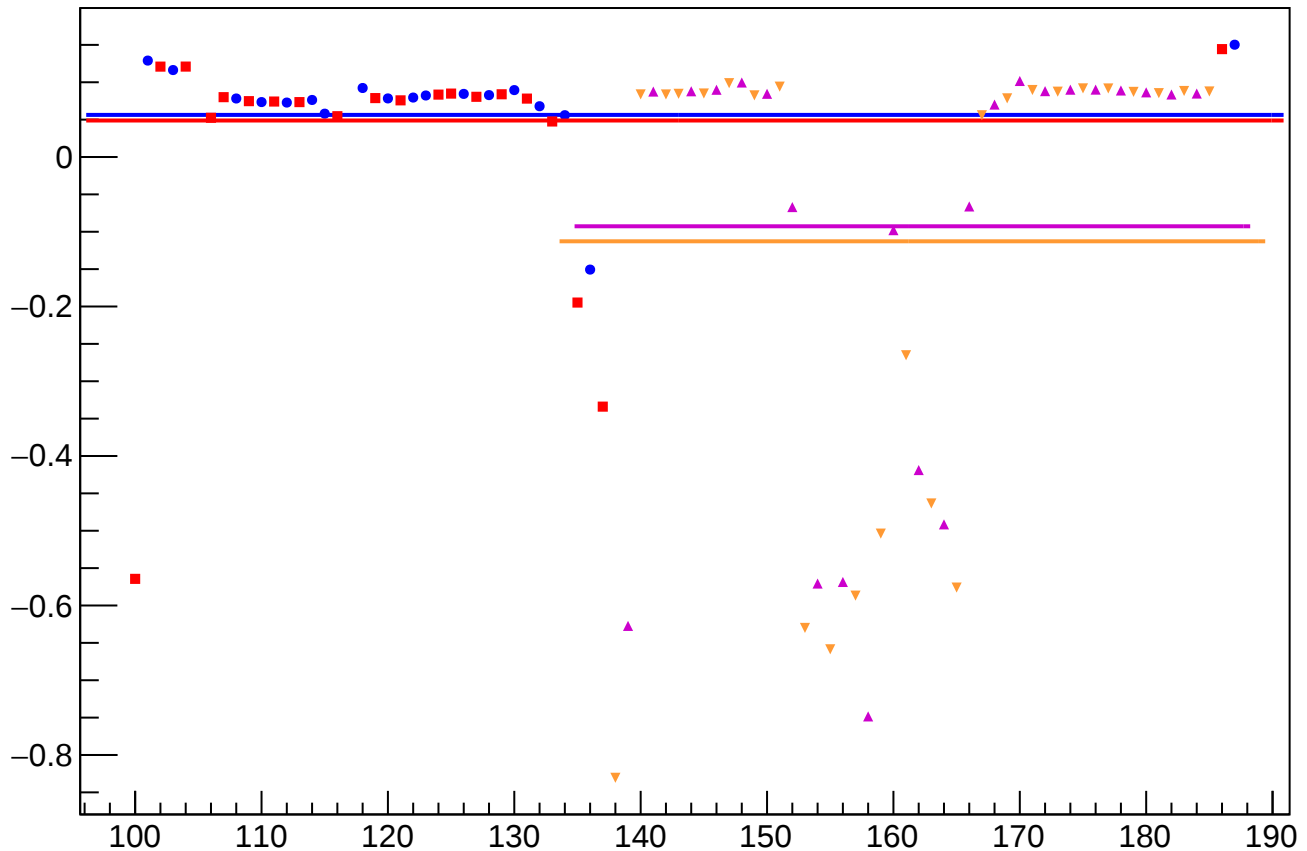
Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

+ sign 0.002+/-0.000 χ^2/NDF : 656074.5/42

All: 0.002+/-0.000 χ^2/NDF : 1297218.2/85

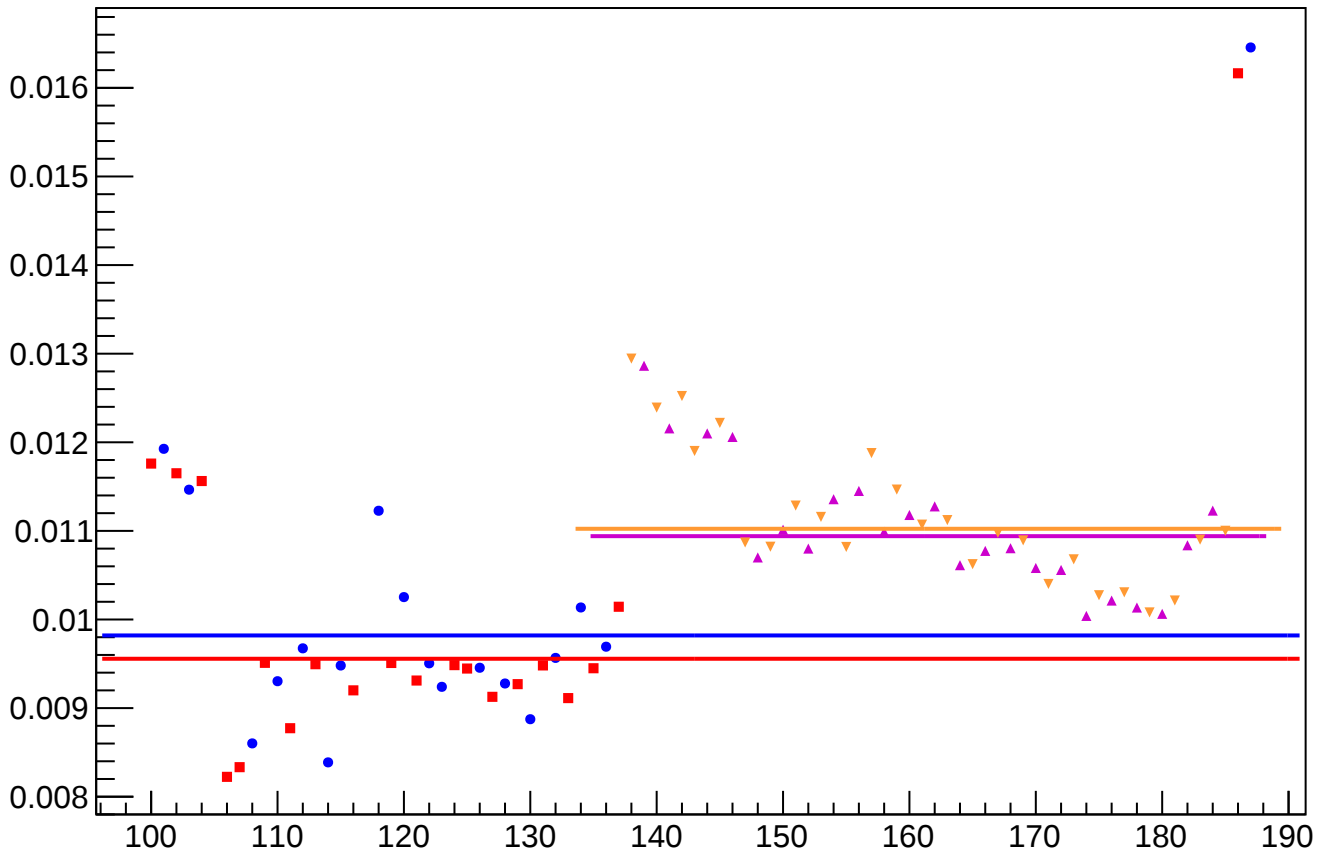
- sign 0.002+/-0.000 χ^2/NDF : 639450.8/42

yield_bpm0l08X_mean vs Slug



Right In: 0.056+/-0.000	χ^2/NDF : 427231839.7/17	+ sign -0.059+/-0.000	χ^2/NDF : 15413572649.8/42
Left Out: -0.113+/-0.000	χ^2/NDF : 13667354077.1/24	All: -0.050+/-0.000	χ^2/NDF : 28334066873.9/42
Right Out: 0.049+/-0.000	χ^2/NDF : 831915971.6/19	- sign -0.042+/-0.000	χ^2/NDF : 12888022260.4/42
Left In: -0.093+/-0.000	χ^2/NDF : 11051944893.7/22		

yield_bpm0l08X_rms vs Slug



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 160728.5/17

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 231168.3/19

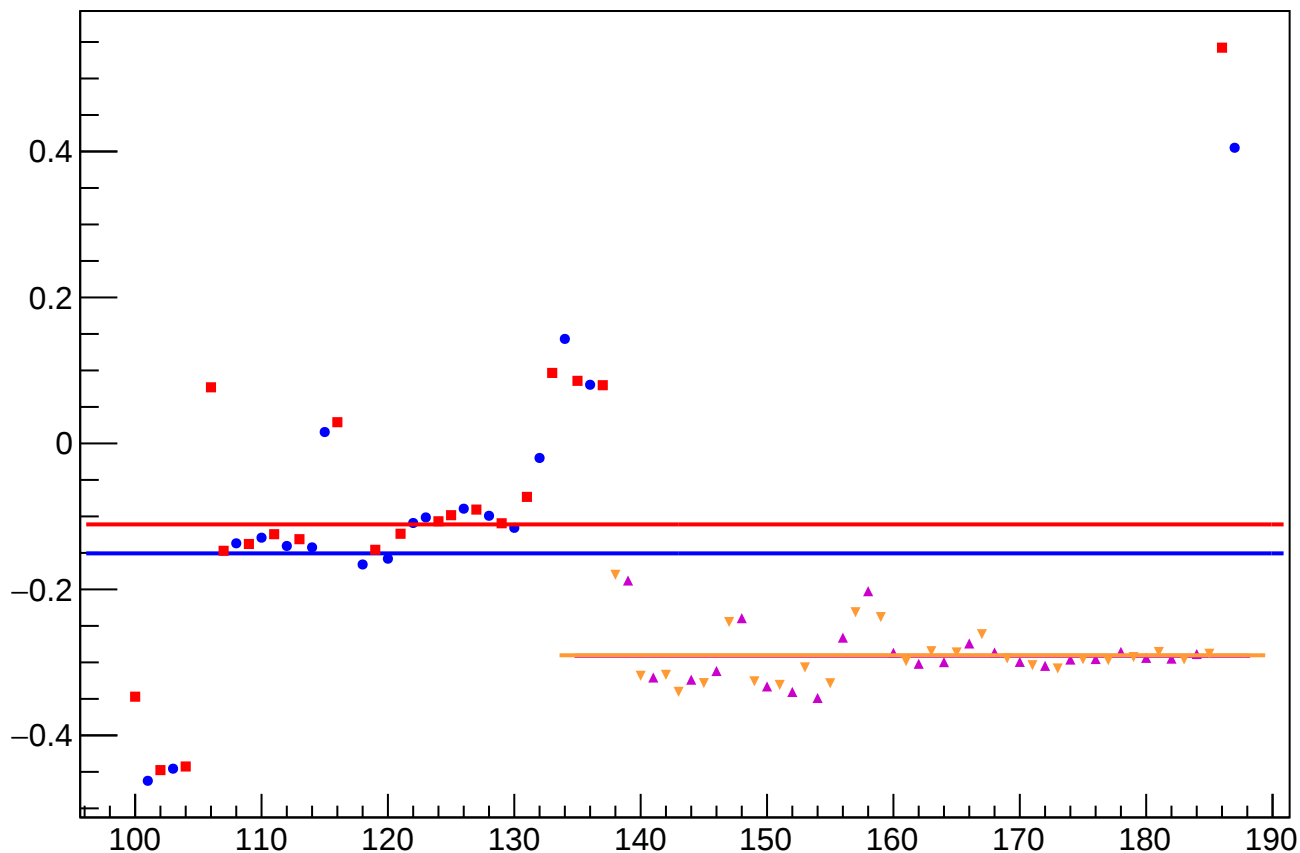
Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

+ sign 0.011 $\pm$ 0.000 χ^2 /NDF: 435931.4/42

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 996596.7/85

- sign 0.010 $\pm$ 0.000 χ^2 /NDF: 552066.3/42

yield_bpm0l08Y_mean vs Slug



Right In: -0.151 ± 0.000 χ^2/NDF : 15433303653.5/17

Left Out: -0.290 ± 0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.111 ± 0.000 χ^2/NDF : 20862514078.1/19

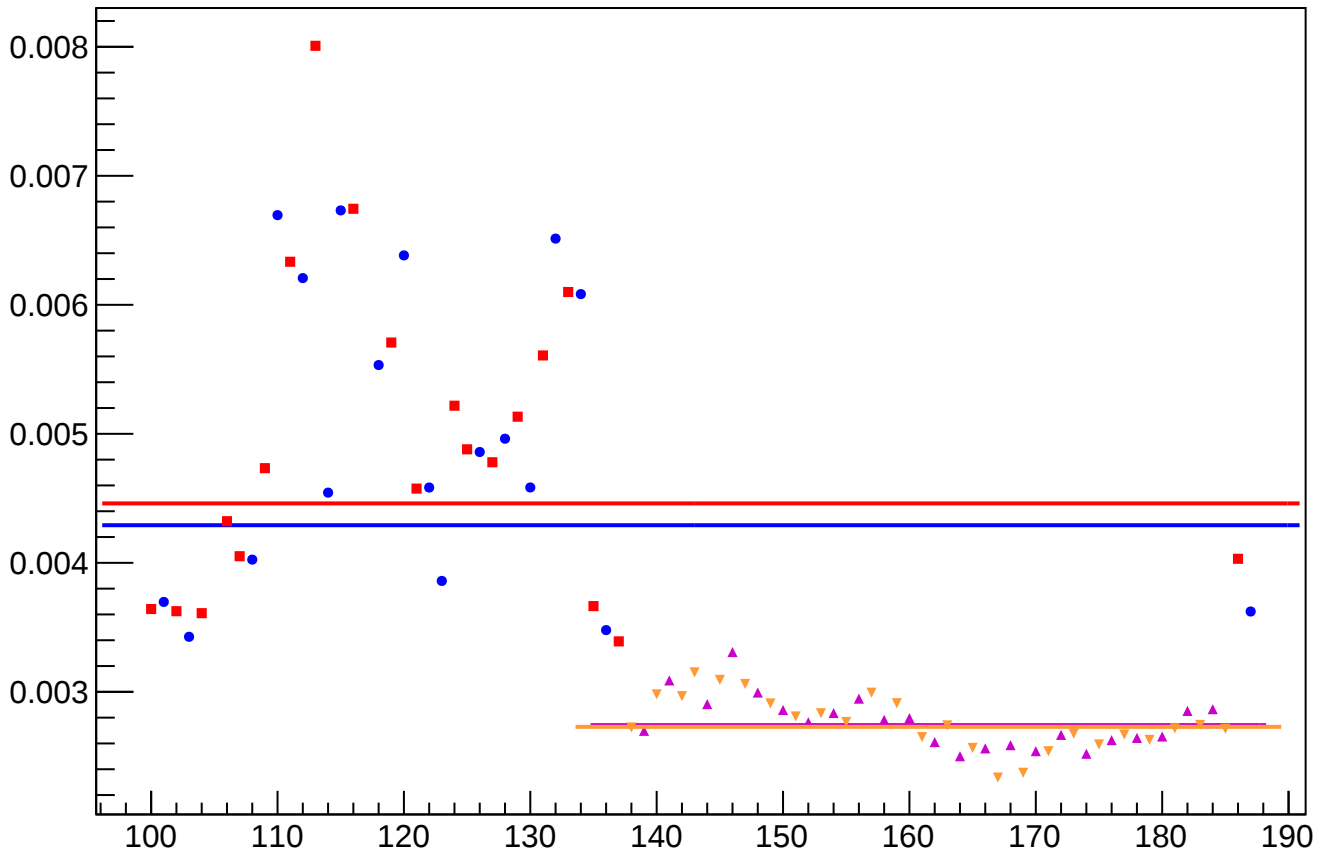
Left In: -0.291 ± 0.000 χ^2/NDF : 3125402243.3/22

+ sign -0.274 ± 0.000 χ^2/NDF : 23816118386.4/42

All: -0.271 ± 0.000 χ^2/NDF : 57139860637.1/42

- sign -0.268 ± 0.000 χ^2/NDF : 33277434118.7/42

yield_bpm0l08Y_rms vs Slug



Right In: 0.004+/-0.000 χ^2/NDF : 627340.2/17

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 647747.3/19

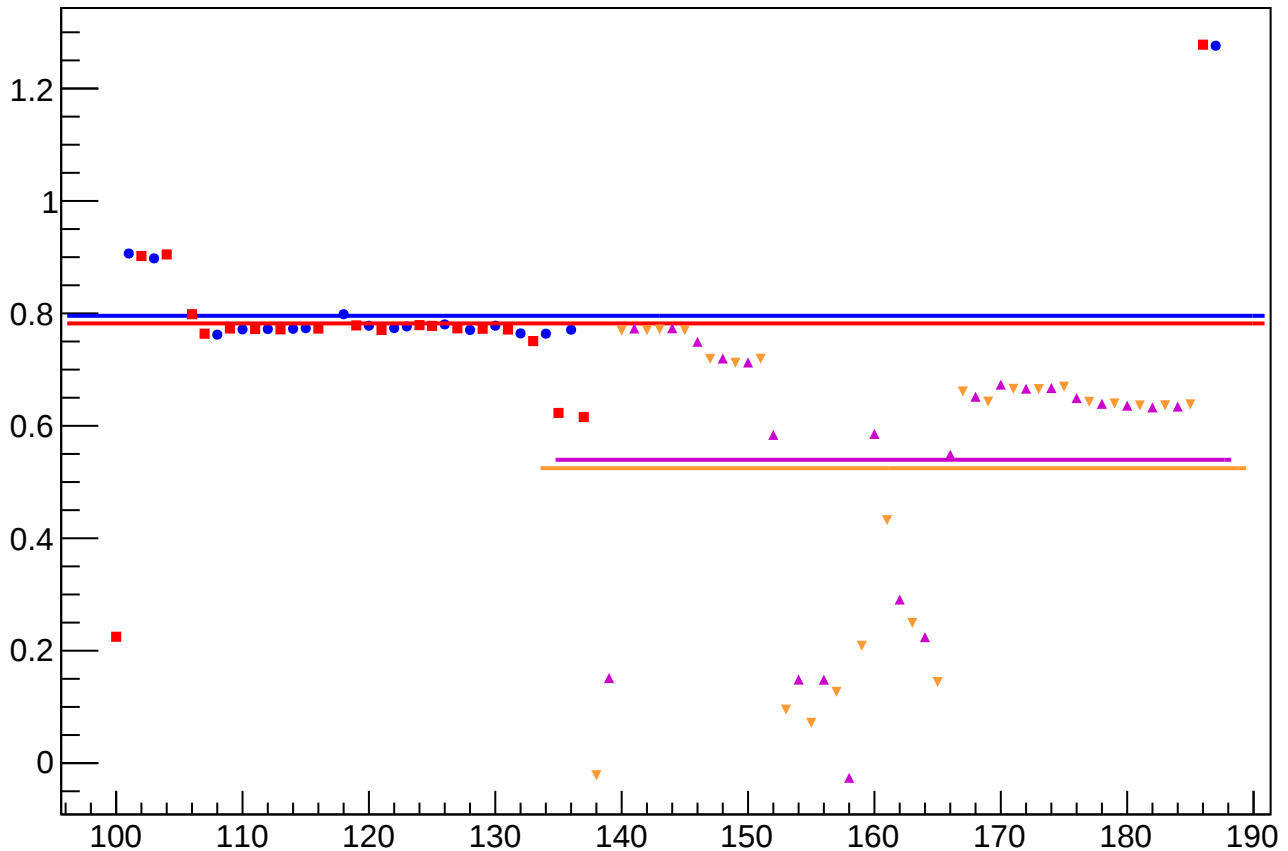
Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

+ sign 0.003+/-0.000 χ^2/NDF : 2213702.1/42

All: 0.003+/-0.000 χ^2/NDF : 4707312.5/85

- sign 0.003+/-0.000 χ^2/NDF : 2486981.7/42

yield_bpm0l09X_mean vs Slug



Right In: 0.796 $\pm$ 0.000 χ^2 /NDF: 235199909.1/17

Left Out: 0.525 $\pm$ 0.000 χ^2 /NDF: 9623503169.9/24

Right Out: 0.782 $\pm$ 0.000 χ^2 /NDF: 753611592.3/19

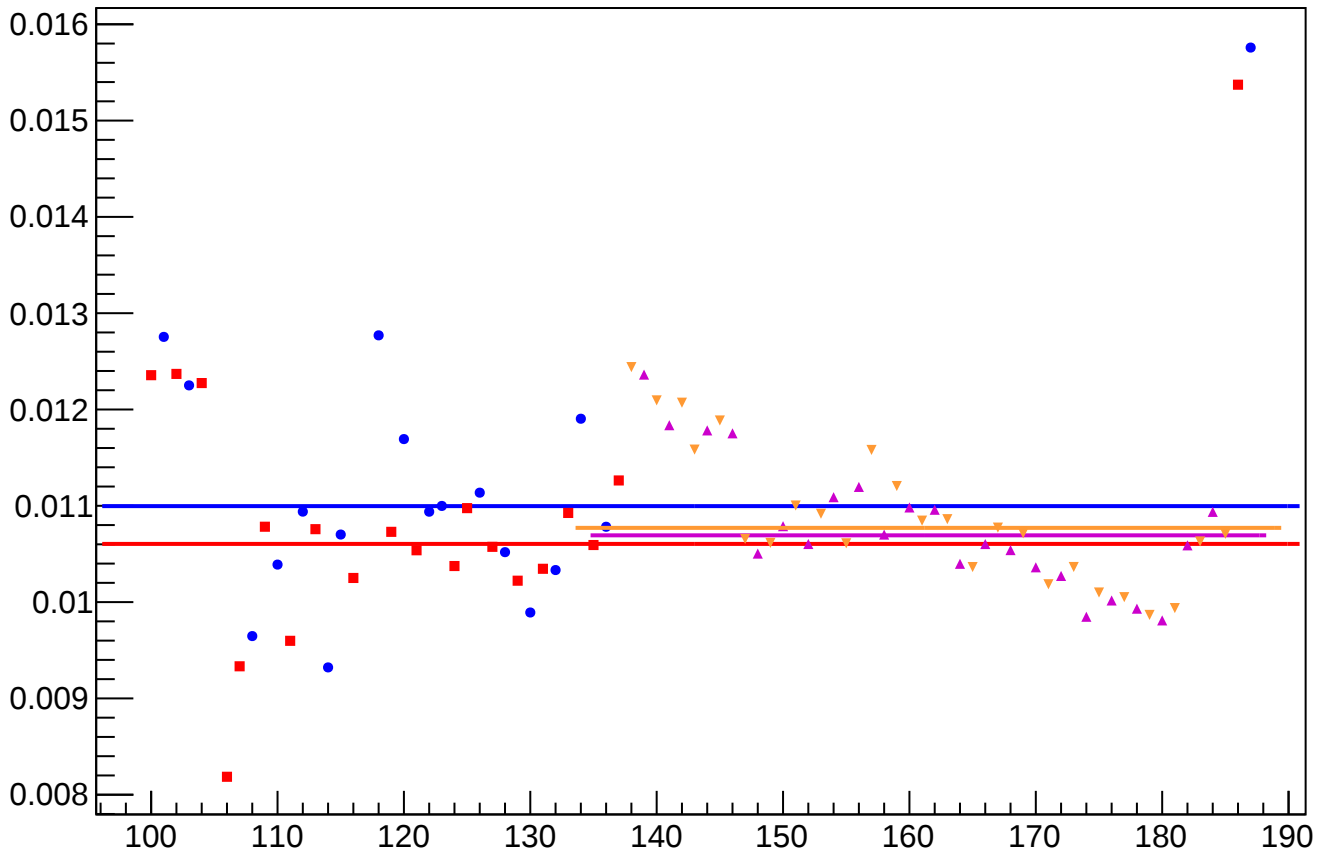
Left In: 0.540 $\pm$ 0.000 χ^2 /NDF: 7860539135.5/22

+ sign 0.596 $\pm$ 0.000 χ^2 /NDF: 12793549406.8/42

All: 0.605 $\pm$ 0.000 χ^2 /NDF: 24057100749.9/8

- sign 0.614 $\pm$ 0.000 χ^2 /NDF: 11230259424.1/42

yield_bpm0l09X_rms vs Slug



Right In: 0.011+/-0.000 χ^2/NDF : 123273.9/17

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 189454.3/19

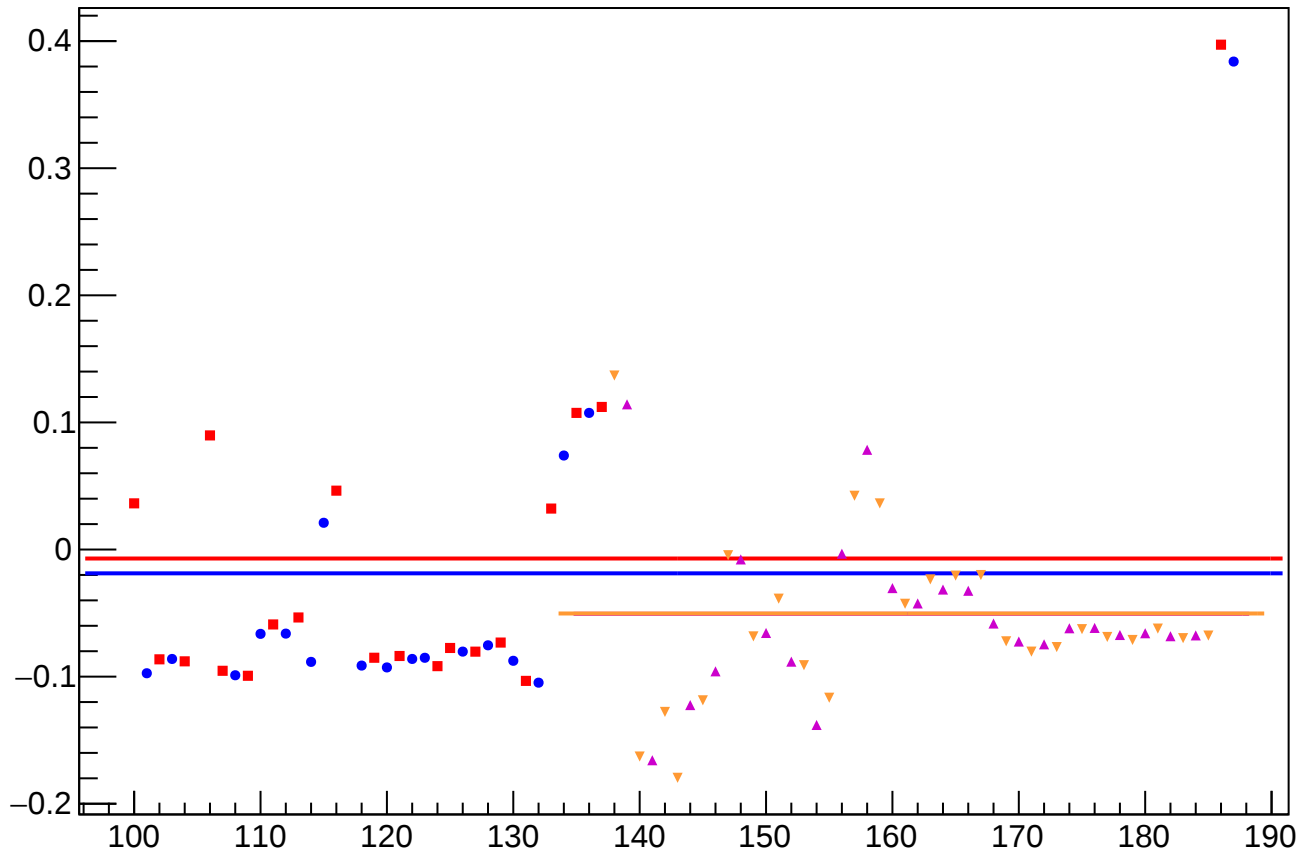
Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

+ sign 0.011+/-0.000 χ^2/NDF : 258976.8/42

All: 0.011+/-0.000 χ^2/NDF : 574005.2/85

- sign 0.011+/-0.000 χ^2/NDF : 309433.6/42

yield_bpm0l09Y_mean vs Slug



Right In: -0.019 ± 0.000 χ^2/NDF : 3717095572.0/17

Left Out: -0.050 ± 0.000 χ^2/NDF : 7271496478.6/24

Right Out: -0.007 ± 0.000 χ^2/NDF : 4874030888.1/19

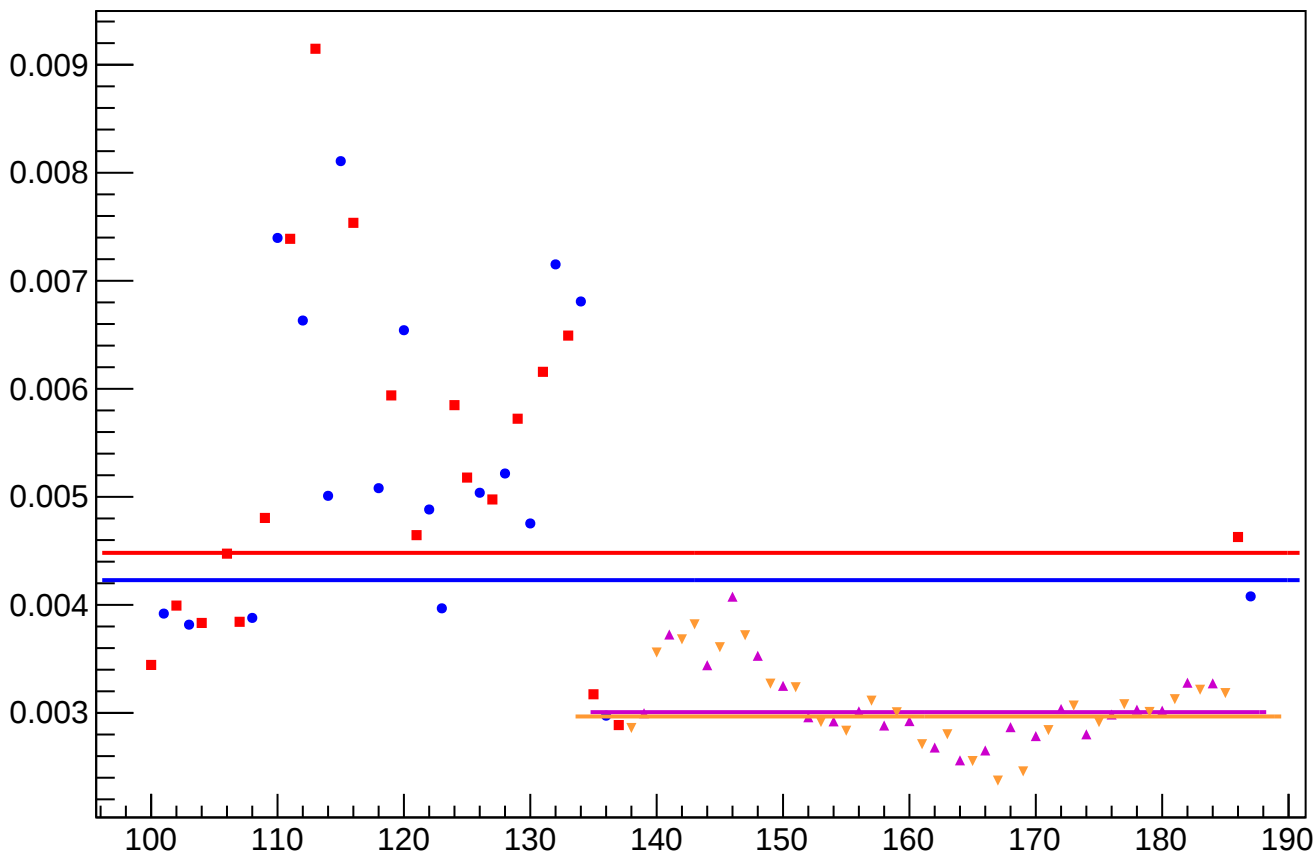
Left In: -0.051 ± 0.000 χ^2/NDF : 6128769990.8/22

+ sign -0.046 ± 0.000 χ^2/NDF : 11256649805.4/42

All: -0.045 ± 0.000 χ^2/NDF : 22759365456.2/42

- sign -0.044 ± 0.000 χ^2/NDF : 11499299901.4/42

yield_bpm0l09Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 877694.5/17

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:499039.1/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 970067.4/19

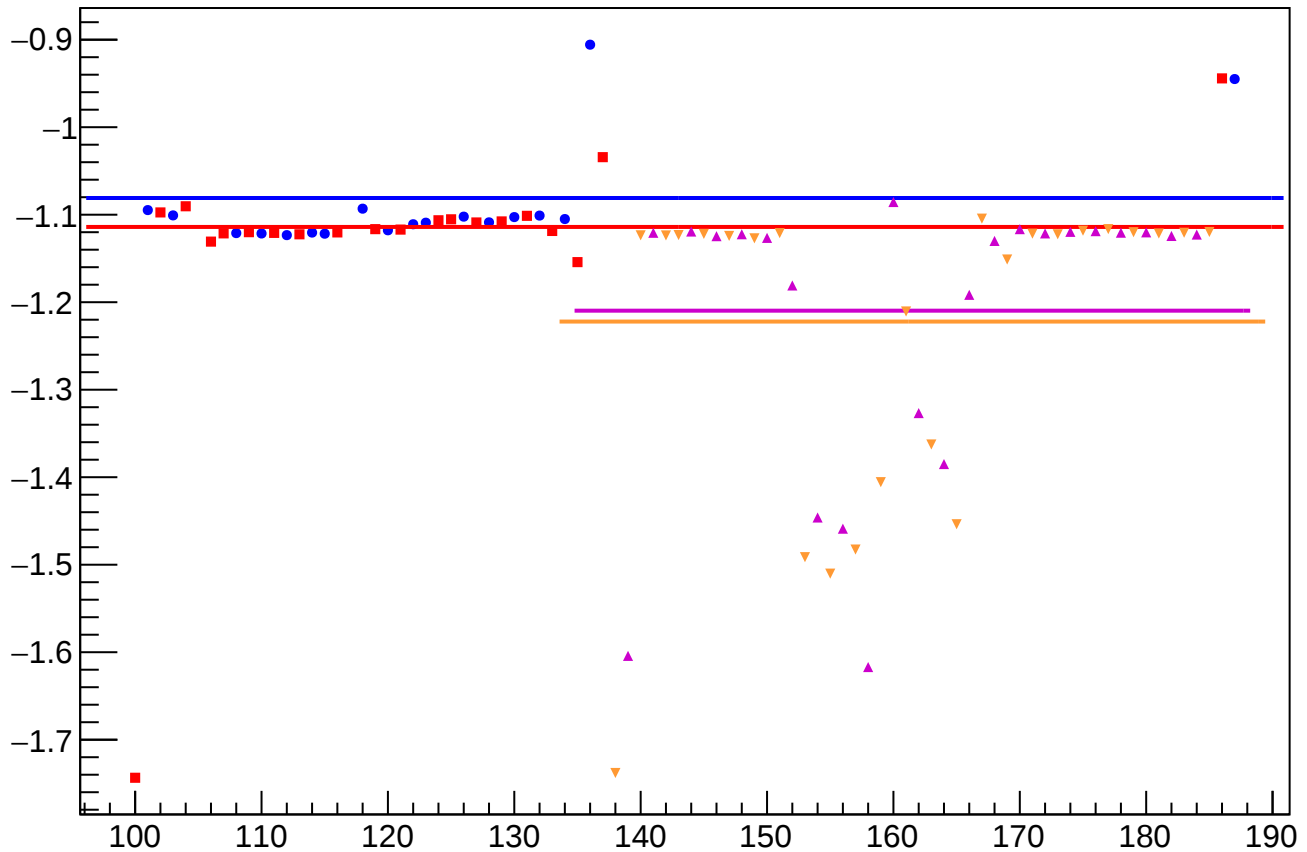
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:329068.1/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 2232334.2/42

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4686507.6/85

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 2439429.6/42

yield_bpm0l10X_mean vs Slug



Right In: -1.081+/-0.000 χ^2 /NDF: 216253415.5/17

Left Out: -1.222+/-0.000 χ^2 /NDF: 5279548861.3/24

Right Out: -1.114+/-0.000 χ^2 /NDF: 279023120.8/19

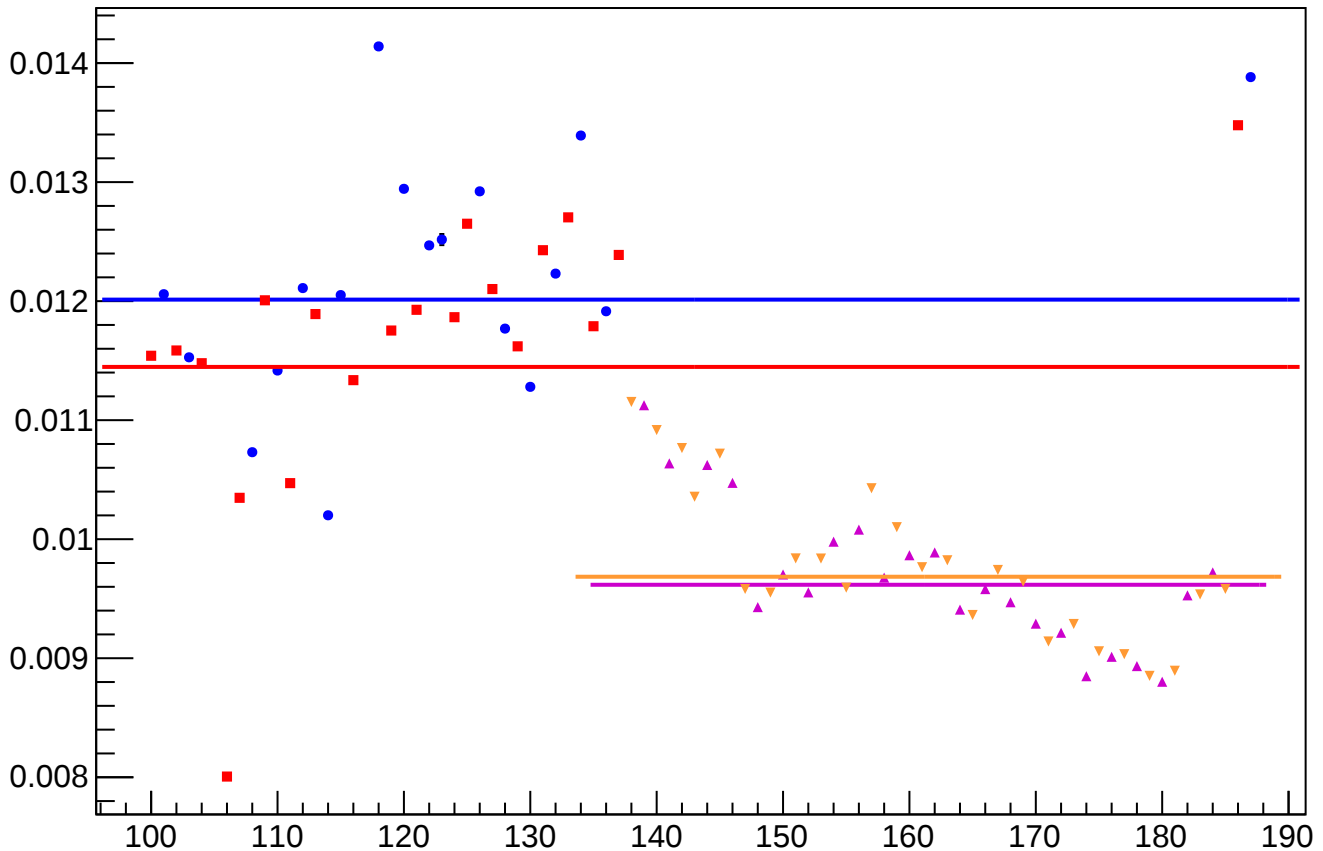
Left In: -1.210+/-0.000 χ^2 /NDF: 4502367902.8/22

+ sign -1.195+/-0.000 χ^2 /NDF: 6225934553.5/42

All: -1.191+/-0.000 χ^2 /NDF: 11398586933.4/42

- sign -1.187+/-0.000 χ^2 /NDF: 5166316210.9/42

yield_bpm0l10X_rms vs Slug



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 63903.5/17

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 169600.9/19

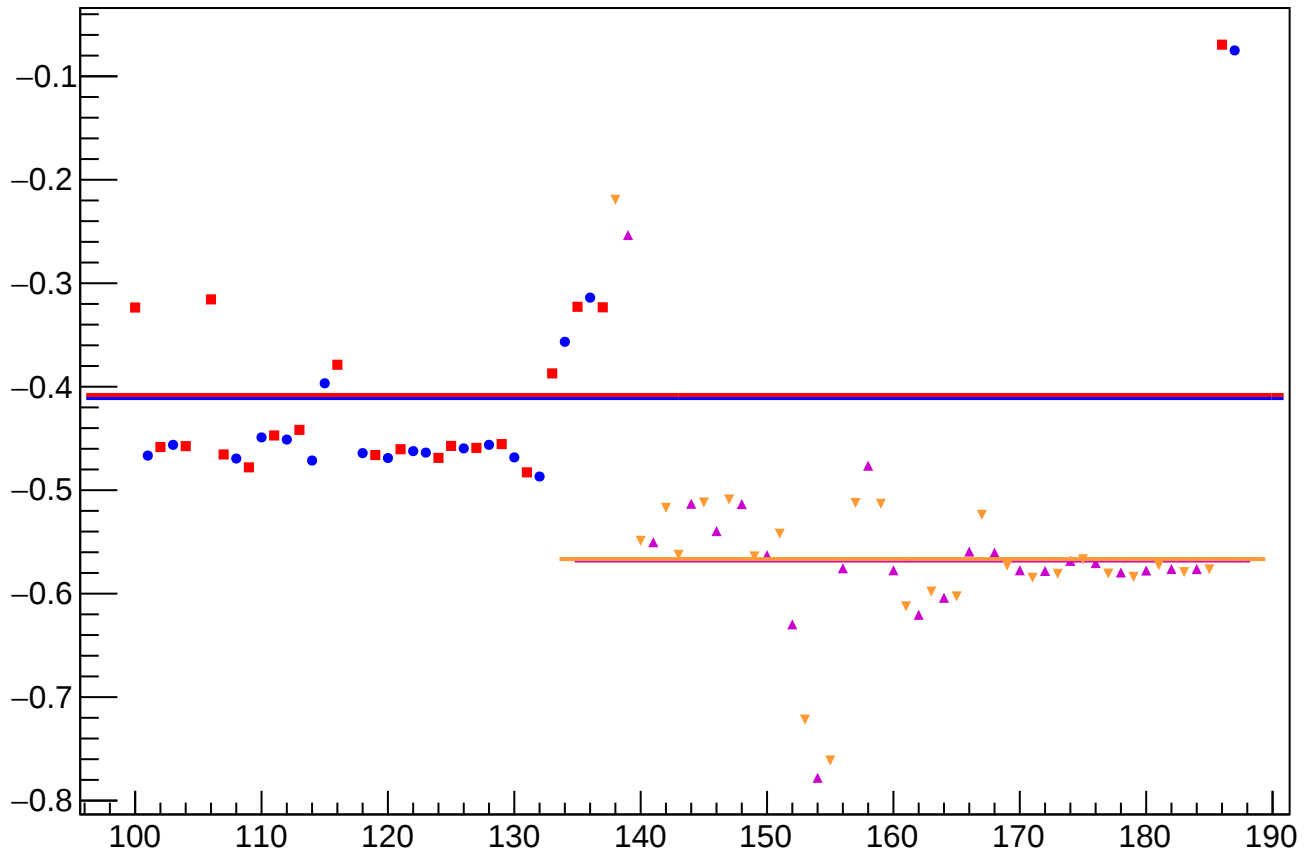
Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

+ sign 0.010 $\pm$ 0.000 χ^2 /NDF: 595711.8/42

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1168828.3/85

- sign 0.010 $\pm$ 0.000 χ^2 /NDF: 571073.9/42

yield_bpm0l10Y_mean vs Slug



Right In: -0.411+/-0.000 χ^2/NDF : 2956483340.1/17

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.408+/-0.000 χ^2/NDF : 3595455148.4/19

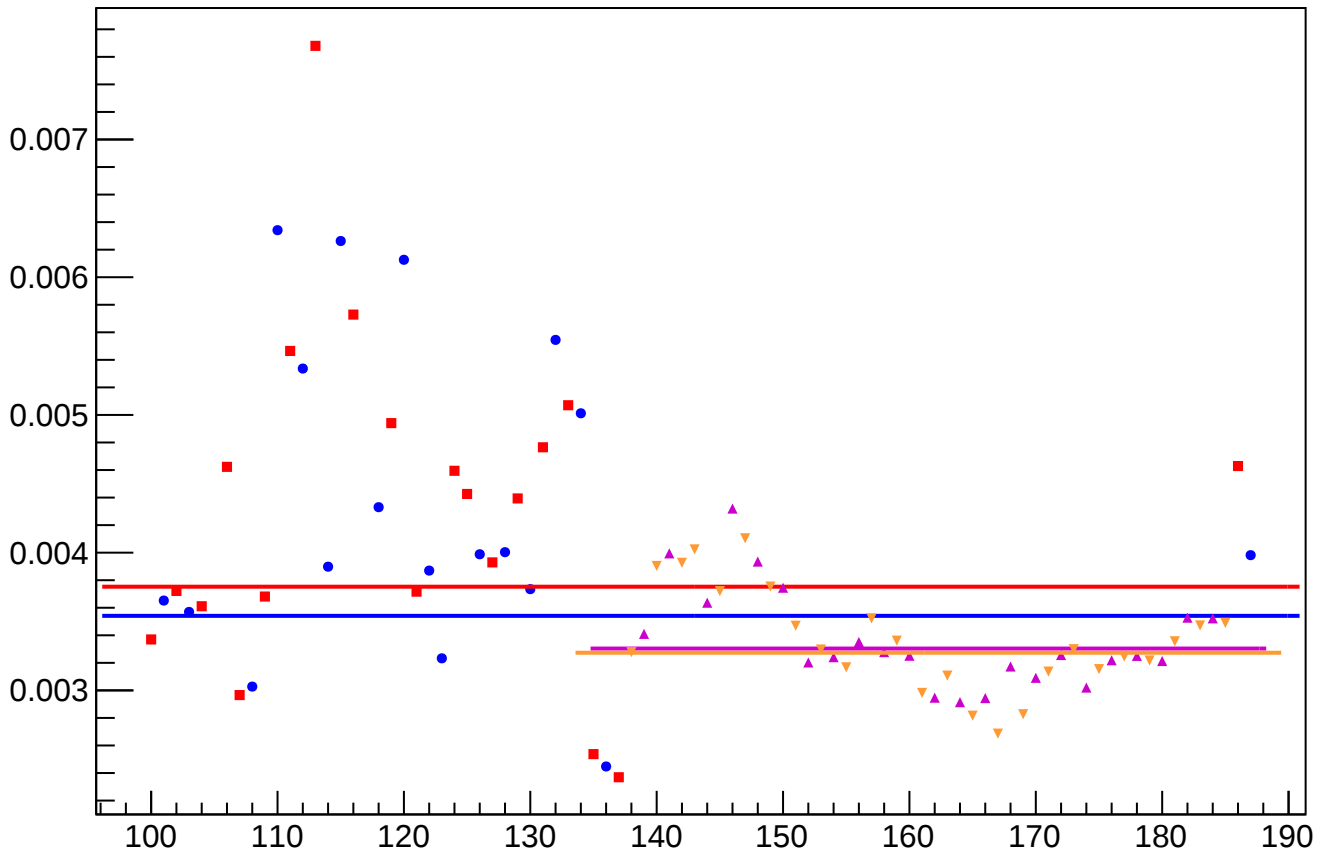
Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

+ sign -0.533+/-0.000 χ^2/NDF : 24713249182.1/42

All: -0.532+/-0.000 χ^2/NDF : 47440839062.7/42

- sign -0.531+/-0.000 χ^2/NDF : 22725161497.1/42

yield_bpm0l10Y_rms vs Slug



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 834653.4/17

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 910773.5/19

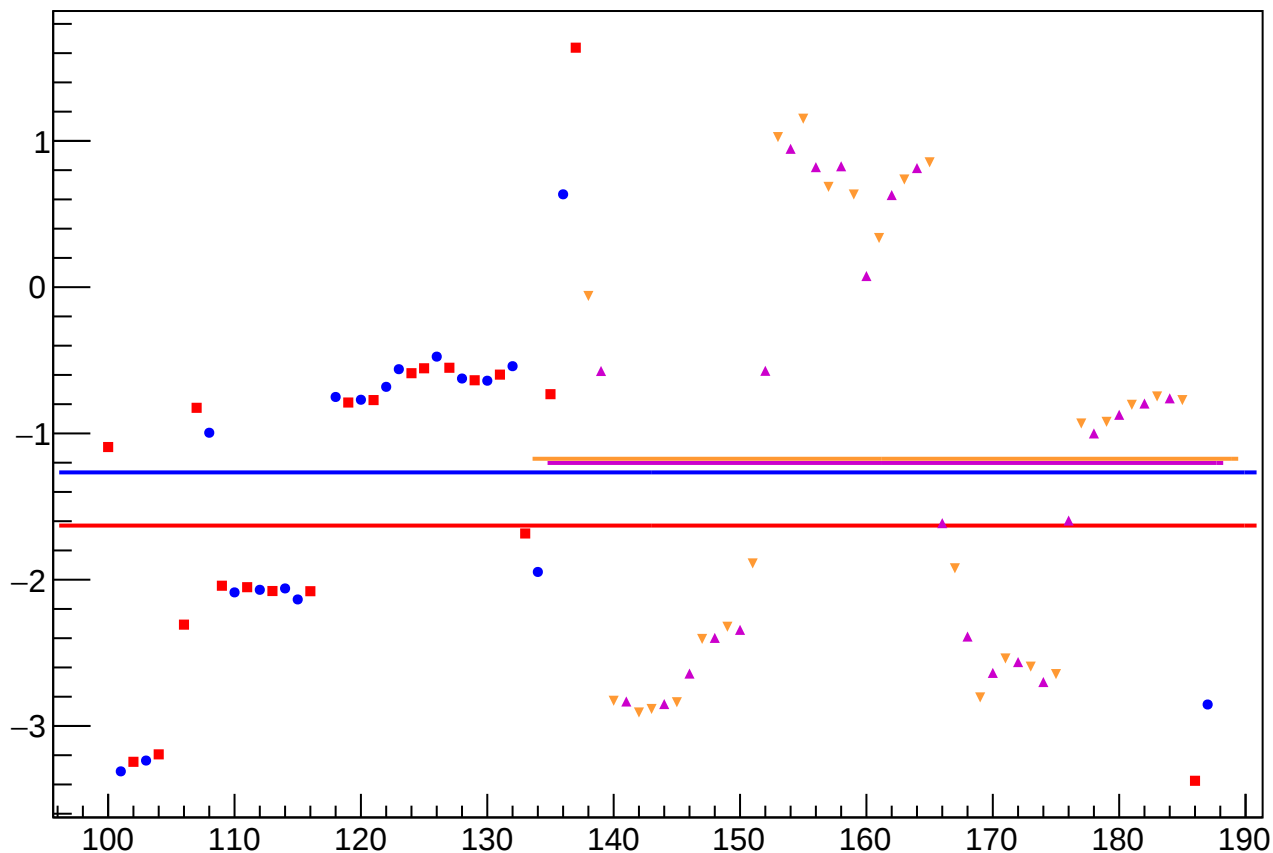
Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:286064.1/22

+ sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1279219.8/42

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2623857.4/85

- sign 0.003 $\pm$ 0.000 χ^2 /NDF: 1333443.8/42

yield_bpm0r03X_mean vs Slug



Right In: -1.266+/-0.000 χ^2 /NDF: 2105950263.9/17

Left Out: -1.173+/-0.000 χ^2 /NDF: 6882684653.2/24

Right Out: -1.630+/-0.000 χ^2 /NDF: 1954814672.9/19

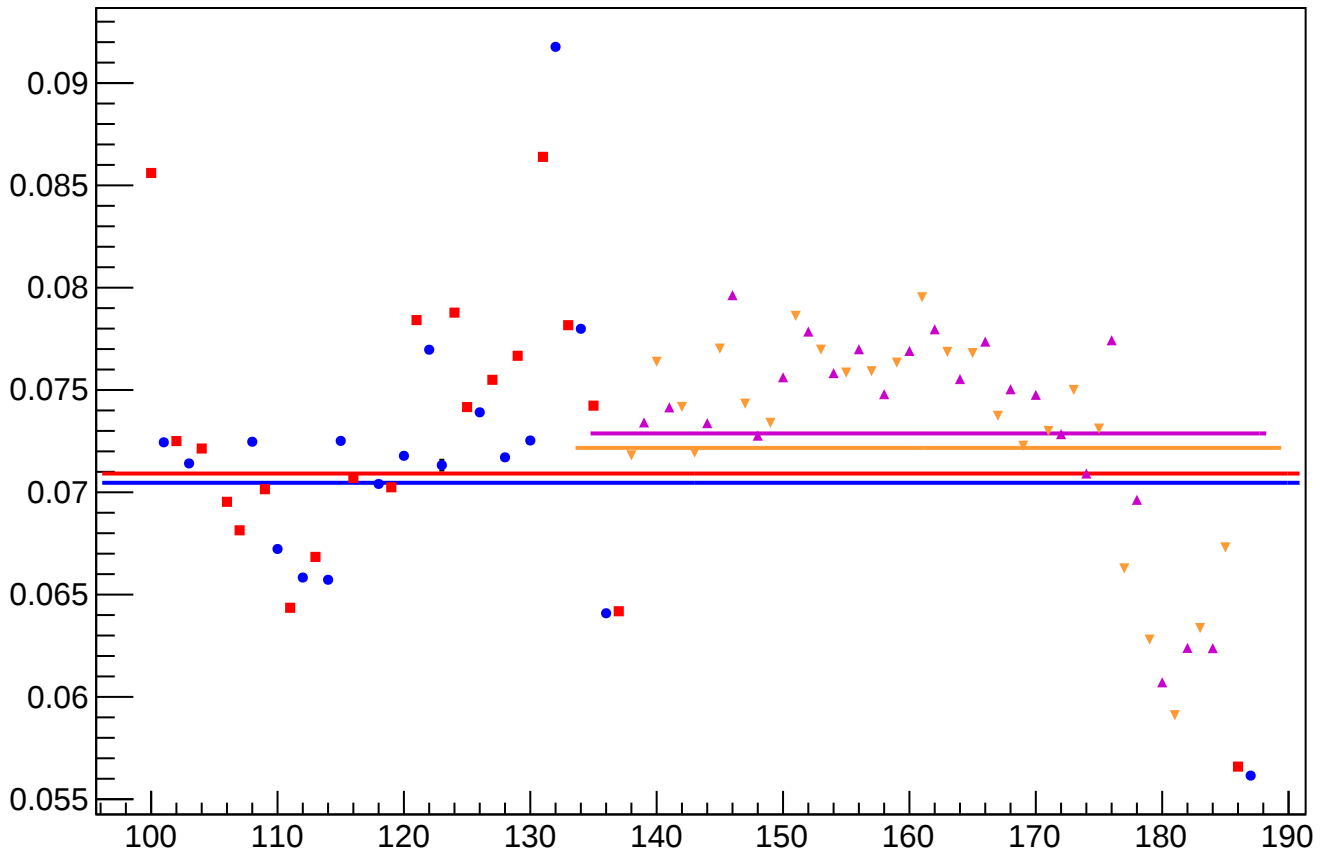
Left In: -1.202+/-0.000 χ^2 /NDF: 5606782515.9/22

+ sign -1.199+/-0.000 χ^2 /NDF: 8997055853.9/42

All: -1.266+/-0.000 χ^2 /NDF: 16784969317.8/100

- sign -1.335+/-0.000 χ^2 /NDF: 7744181466.0/42

yield_bpm0r03X_rms vs Slug



Right In: 0.070 $\pm$ 0.000 χ^2 /NDF: 95845.8/17

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 120064.7/19

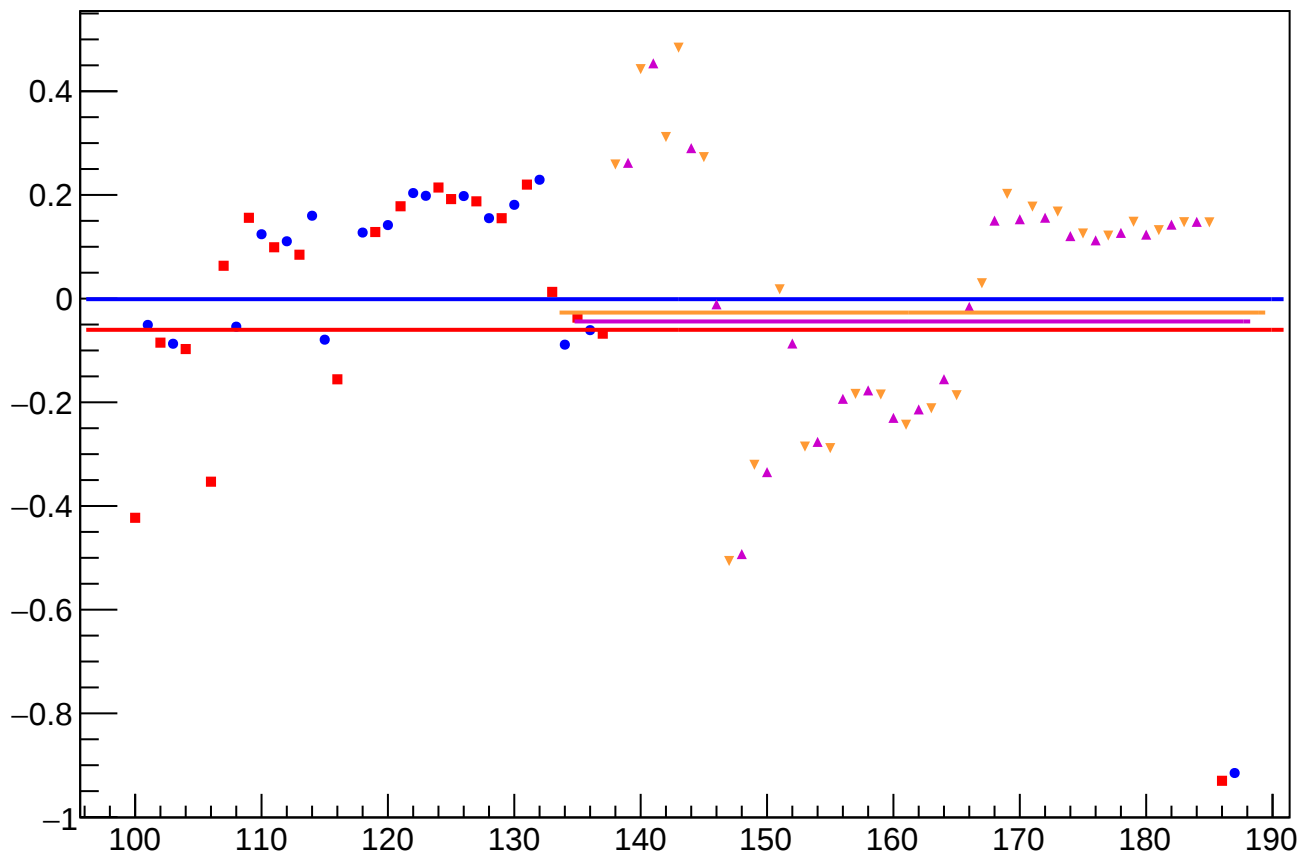
Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

+ sign 0.072 $\pm$ 0.000 χ^2 /NDF: 323750.3/42

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 636519.7/85

- sign 0.072 $\pm$ 0.000 χ^2 /NDF: 311222.9/42

yield_bpm0r03Y_mean vs Slug



Right In: -0.001 $\pm$ 0.000 χ^2/NDF : 1733471191.2/17

Left Out: -0.027 $\pm$ 0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.060 $\pm$ 0.000 χ^2/NDF : 3421421453.5/19

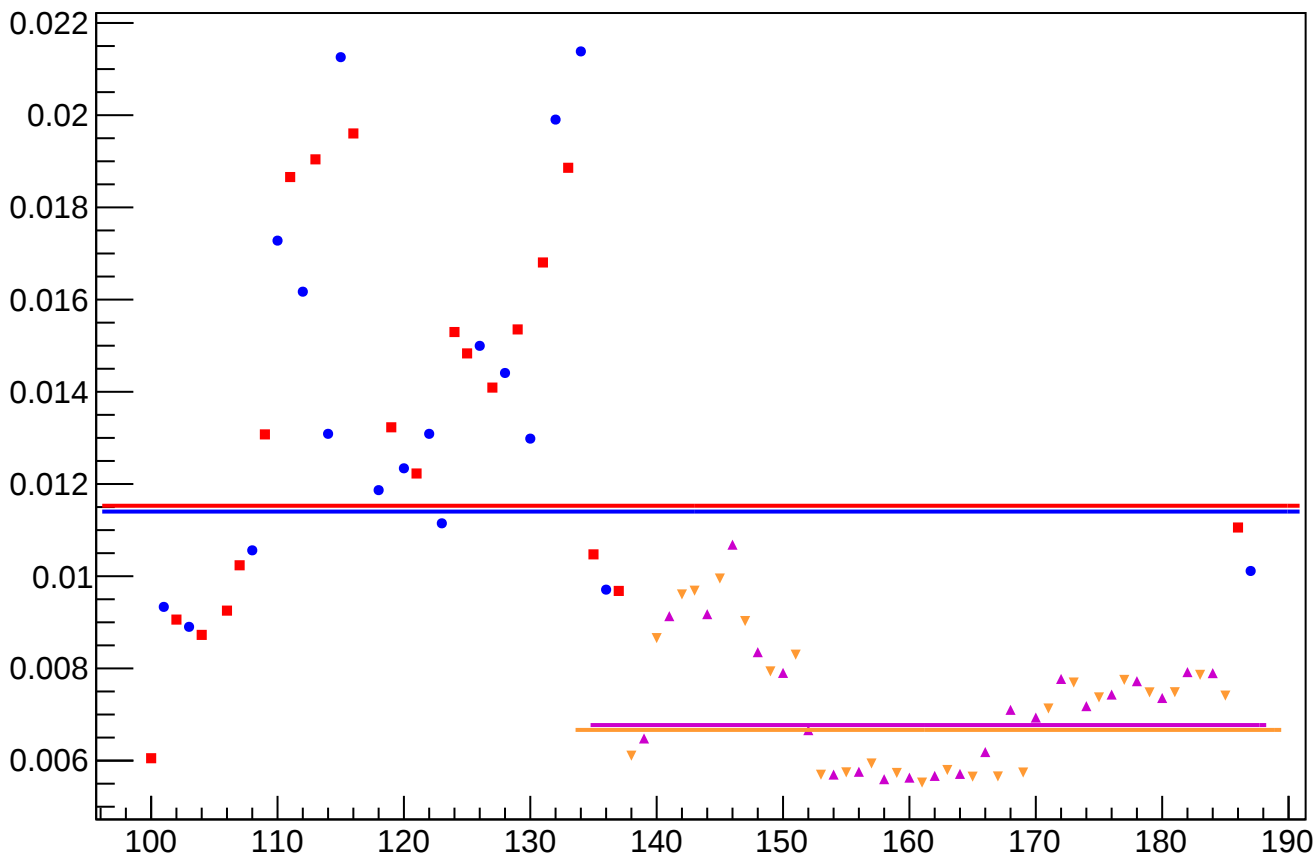
Left In: -0.044 $\pm$ 0.000 χ^2/NDF : 15718556282.1/22

+ sign -0.024 $\pm$ 0.000 χ^2/NDF : 22137135086.6/42

All: -0.035 $\pm$ 0.000 χ^2/NDF : 41384985983.6/42

- sign -0.046 $\pm$ 0.000 χ^2/NDF : 19150745374.1/42

yield_bpm0r03Y_rms vs Slug



Right In: 0.011 ± 0.000 $\chi^2/\text{NDF}: 678392.5/17$

Left Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1143768.6/24$

Right Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 980603.5/19$

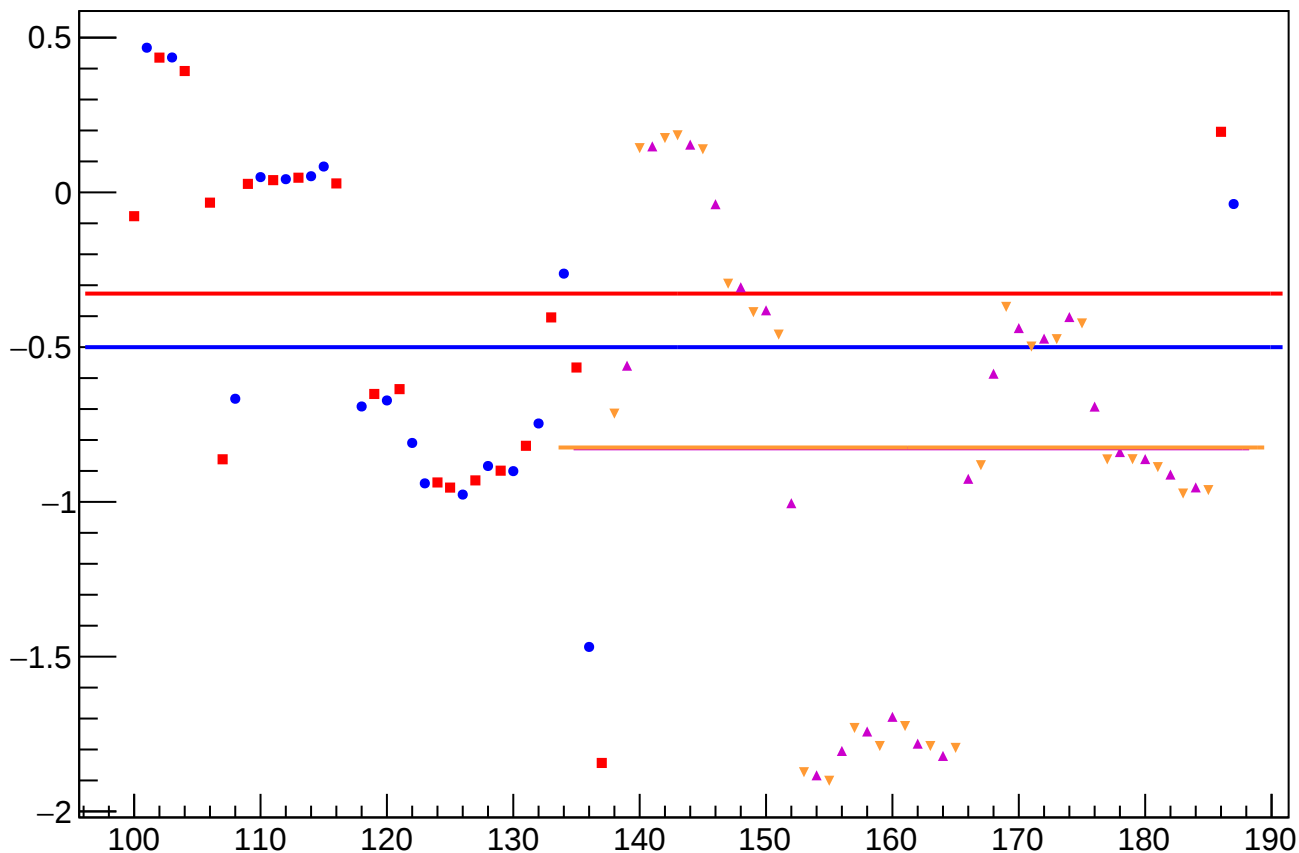
Left In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 934050.3/22$

+ sign 0.007 ± 0.000 $\chi^2/\text{NDF}: 3630628.6/42$

All: 0.007 ± 0.000 $\chi^2/\text{NDF}: 7432501.2/85$

- sign 0.007 ± 0.000 $\chi^2/\text{NDF}: 3789894.7/42$

yield_bpm0r05X_mean vs Slug



Right In: -0.500 ± 0.000 χ^2/NDF : 346429757.8/17

Left Out: -0.824 ± 0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.327 ± 0.000 χ^2/NDF : 294345929.8/19

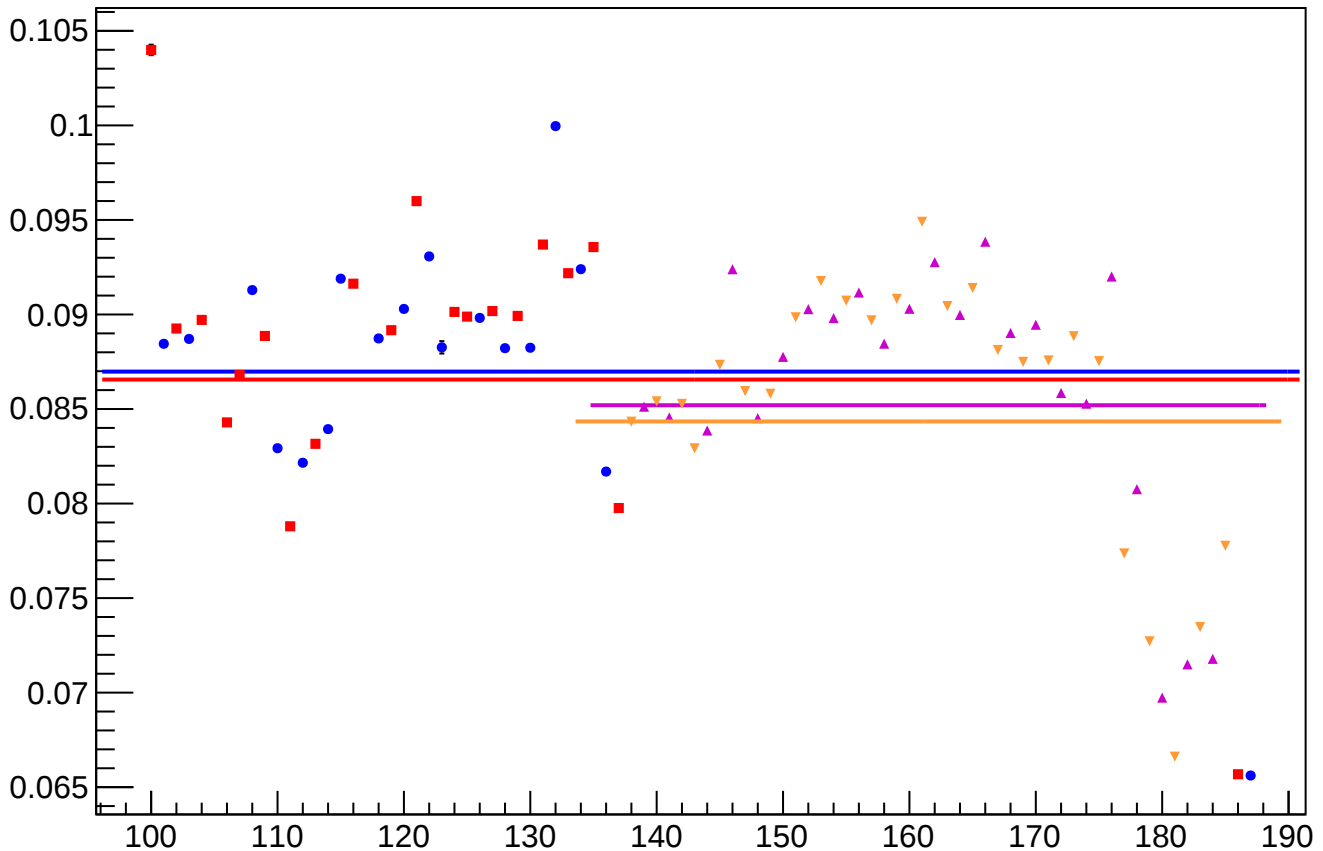
Left In: -0.827 ± 0.000 χ^2/NDF : 921651117.3/22

+ sign -0.740 ± 0.000 χ^2/NDF : 1519866036.8/42

All: -0.710 ± 0.000 χ^2/NDF : 2916241797.8/8

- sign -0.679 ± 0.000 χ^2/NDF : 1390116228.5/42

yield_bpm0r05X_rms vs Slug



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 67822.9/17

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.087 $\pm$ 0.000 χ^2 /NDF: 123219.9/19

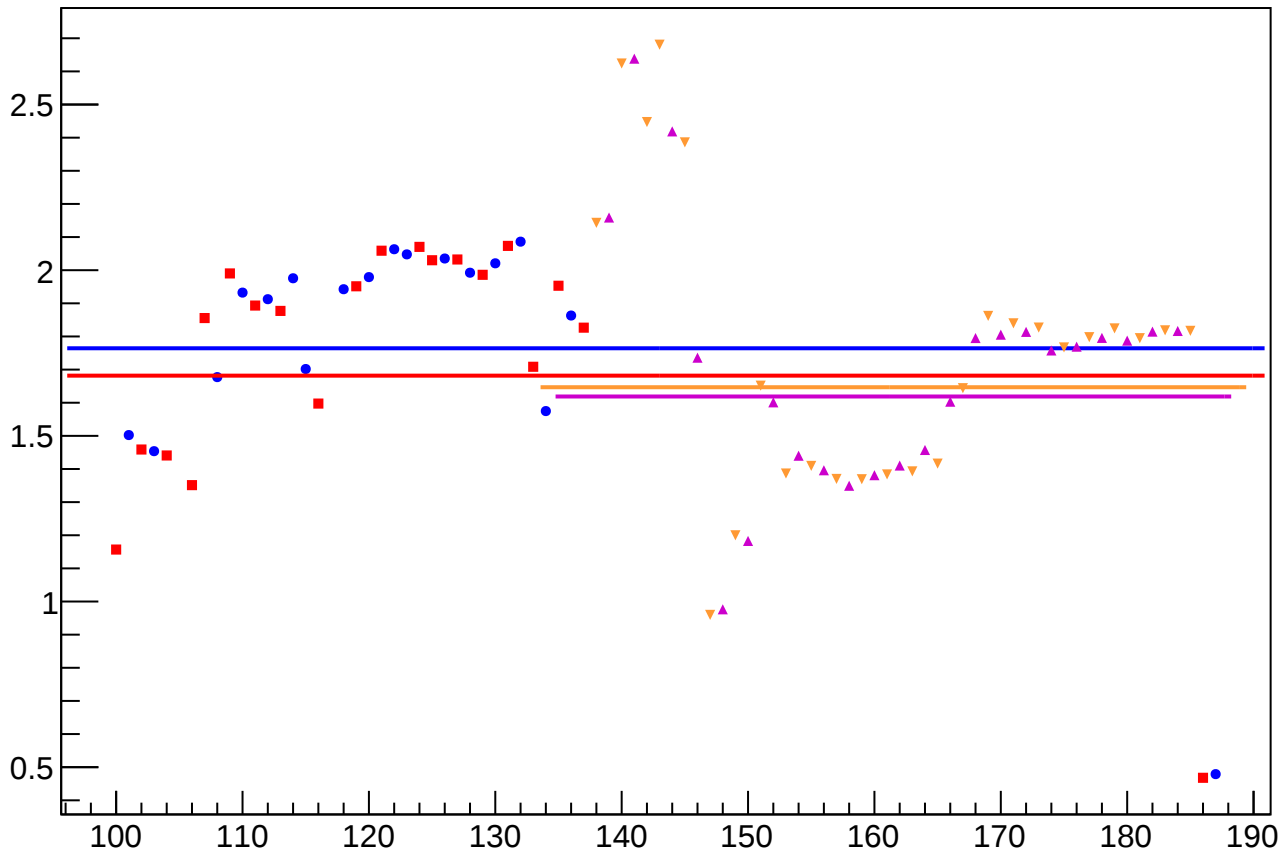
Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

+ sign 0.085 $\pm$ 0.000 χ^2 /NDF: 365369.0/42

All: 0.085 $\pm$ 0.000 χ^2 /NDF: 730588.0/85

- sign 0.086 $\pm$ 0.000 χ^2 /NDF: 364105.1/42

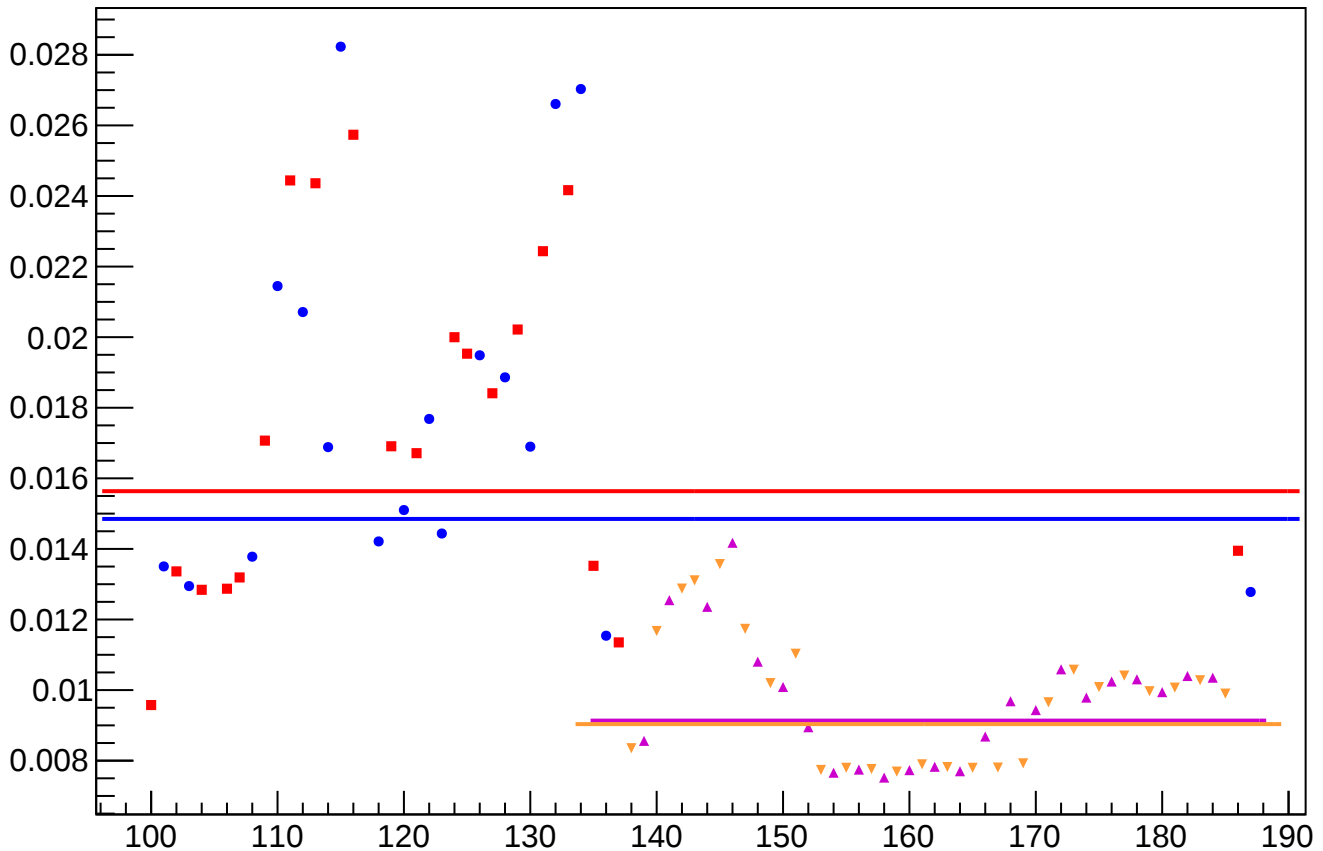
yield_bpm0r05Y_mean vs Slug



Right In: 1.764 ± 0.000 χ^2/NDF : 2518137277.4/17
 Left Out: 1.647 ± 0.000 χ^2/NDF : 26535241545.7/24
 Right Out: 1.682 ± 0.000 χ^2/NDF : 4415456782.7/19
 Left In: 1.619 ± 0.000 χ^2/NDF : 20618198188.1/22

+ sign 1.660 ± 0.000 χ^2/NDF : 29379127372.0/42
 All: 1.644 ± 0.000 χ^2/NDF : 54632033395.2/8
 - sign 1.626 ± 0.000 χ^2/NDF : 25124206608.8/42

yield_bpm0r05Y_rms vs Slug



Right In: 0.015+/-0.000 χ^2/NDF : 645097.9/17

Left Out: 0.009+/-0.000 χ^2/NDF : 1042871.8/24

Right Out: 0.016+/-0.000 χ^2/NDF : 780807.2/19

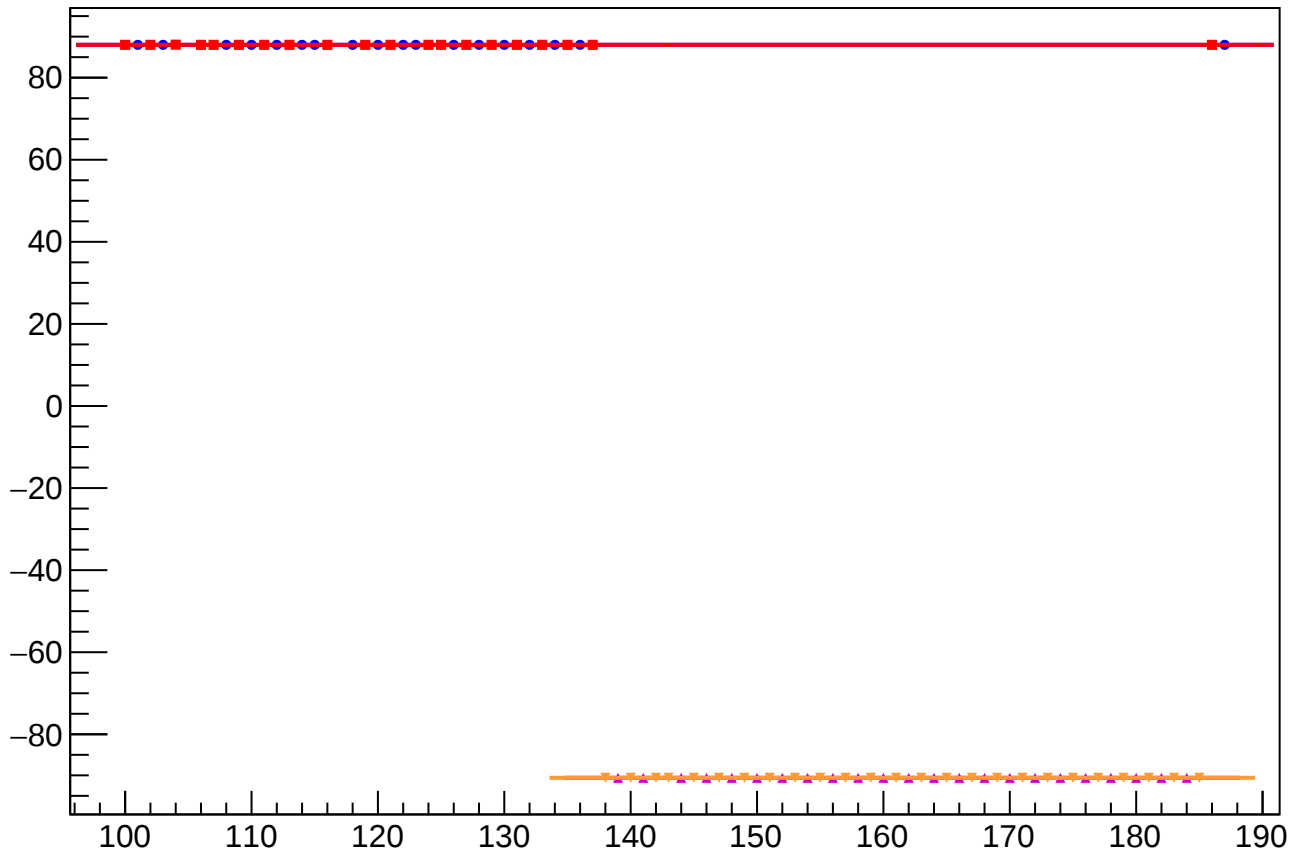
Left In: 0.009+/-0.000 χ^2/NDF : 878356.2/22

+ sign 0.010+/-0.000 χ^2/NDF : 3281357.9/42

All: 0.010+/-0.000 χ^2/NDF : 6884415.7/85

- sign 0.010+/-0.000 χ^2/NDF : 3592399.8/42

epics_VWienAngles_mean vs Slug



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 1908412.3/17

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 5785821.4/24

Right Out: 88.003 $\pm$ 0.000 χ^2 /NDF: 77825816610267046188240863232.0/19

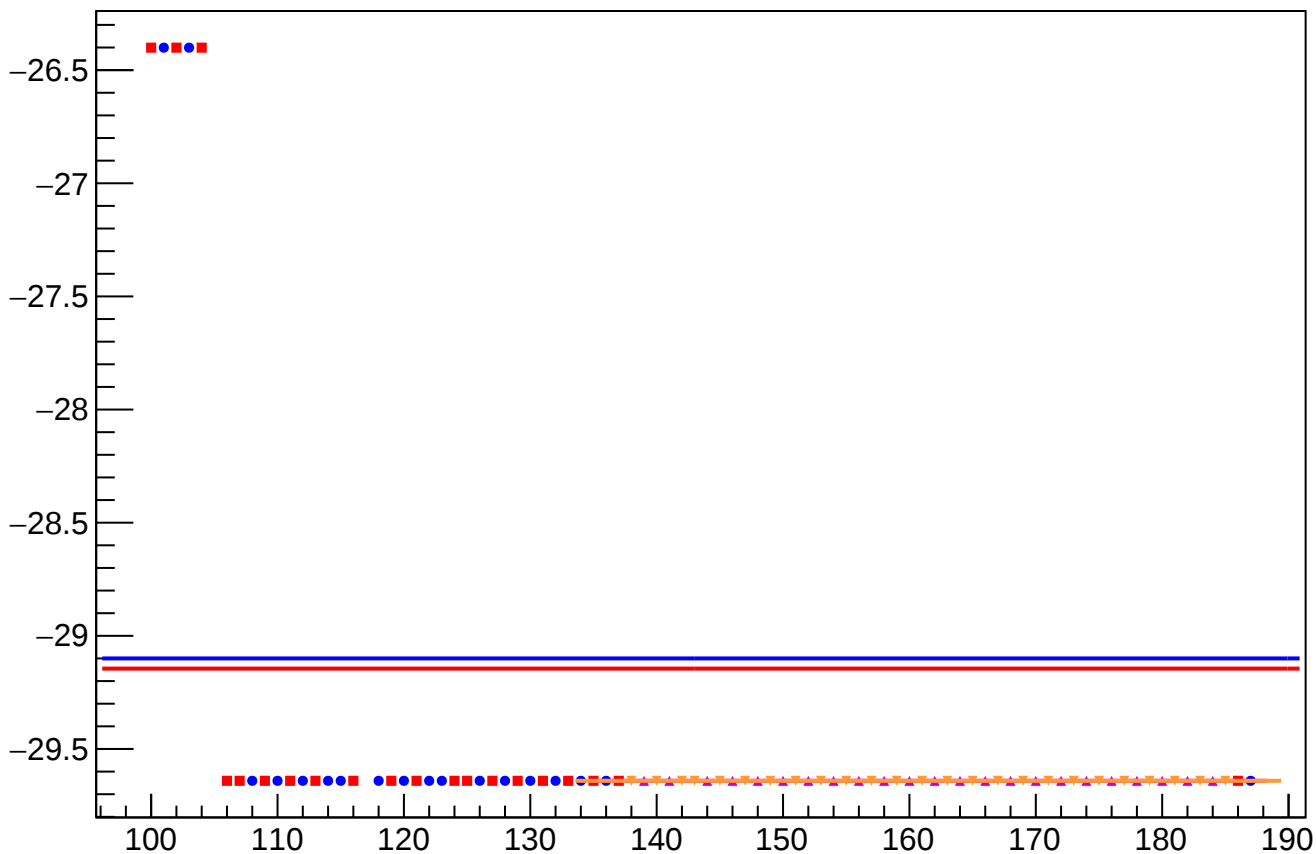
Left In: -90.599 $\pm$ 0.000 χ^2 /NDF: 7134230.8/22

+ sign -42.257 $\pm$ 0.000 χ^2 /NDF: 164476603968606

All: -39.951 $\pm$ 0.000 χ^2 /NDF: 334789682977

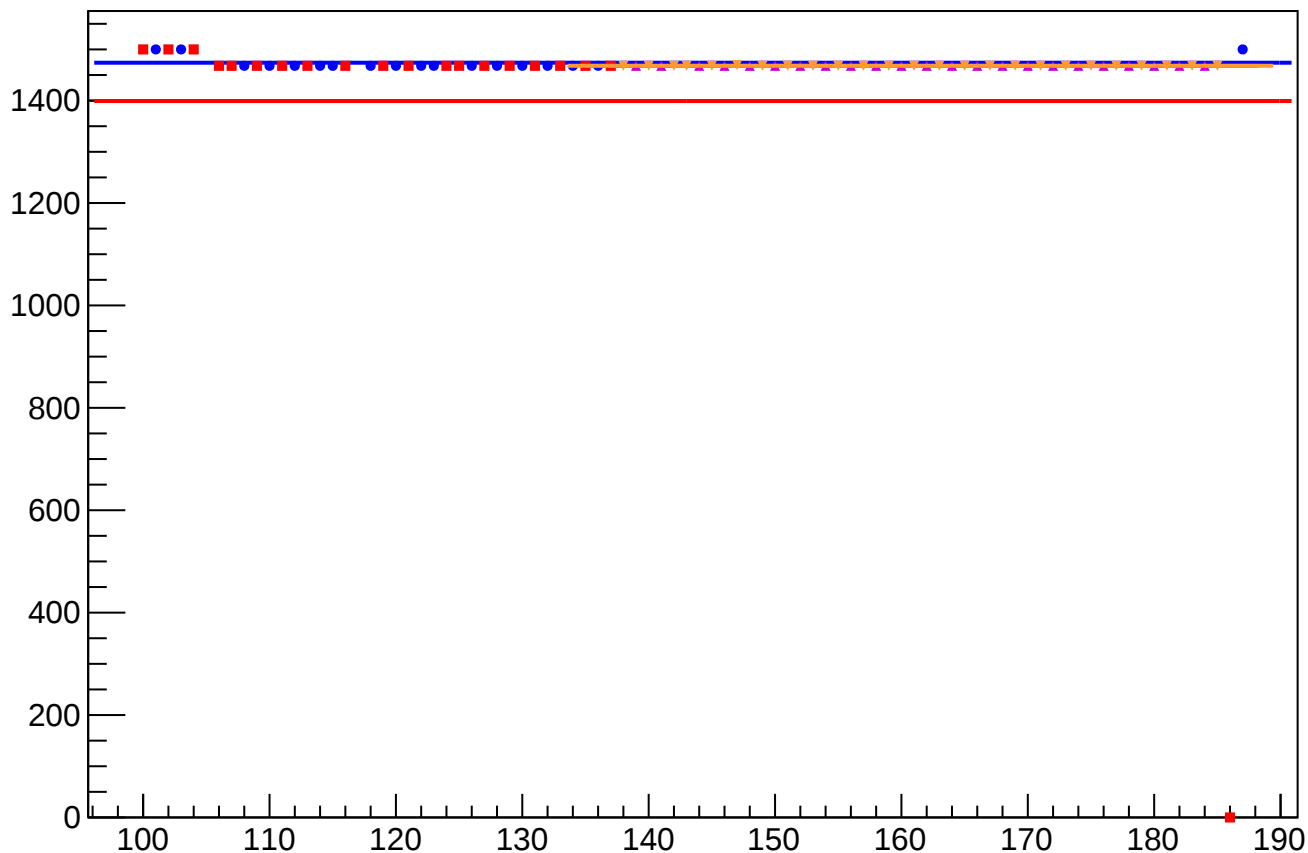
- sign -37.592 $\pm$ 0.000 χ^2 /NDF: 1700320501703060

epics_HWienAngles_mean vs Slug



Right In: -29.100+/-0.000 χ^2/NDF : 1031971987553053630823669453291520.0/17
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24 + sign -29.494+/-0.000 χ^2/NDF : 118275639326185
 Right Out: -29.145+/-0.000 χ^2/NDF : 1031368426385232524829032009695232.0/19 All: -29.494+/-0.000 χ^2/NDF : 234517115540
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22 - sign -29.494+/-0.000 χ^2/NDF : 1162413962725113

epics_psub_pl_poss_mean vs Slug



Right In: 1474.048+/-0.000 χ^2/NDF : 111357842324780376652682384807821312.0/17

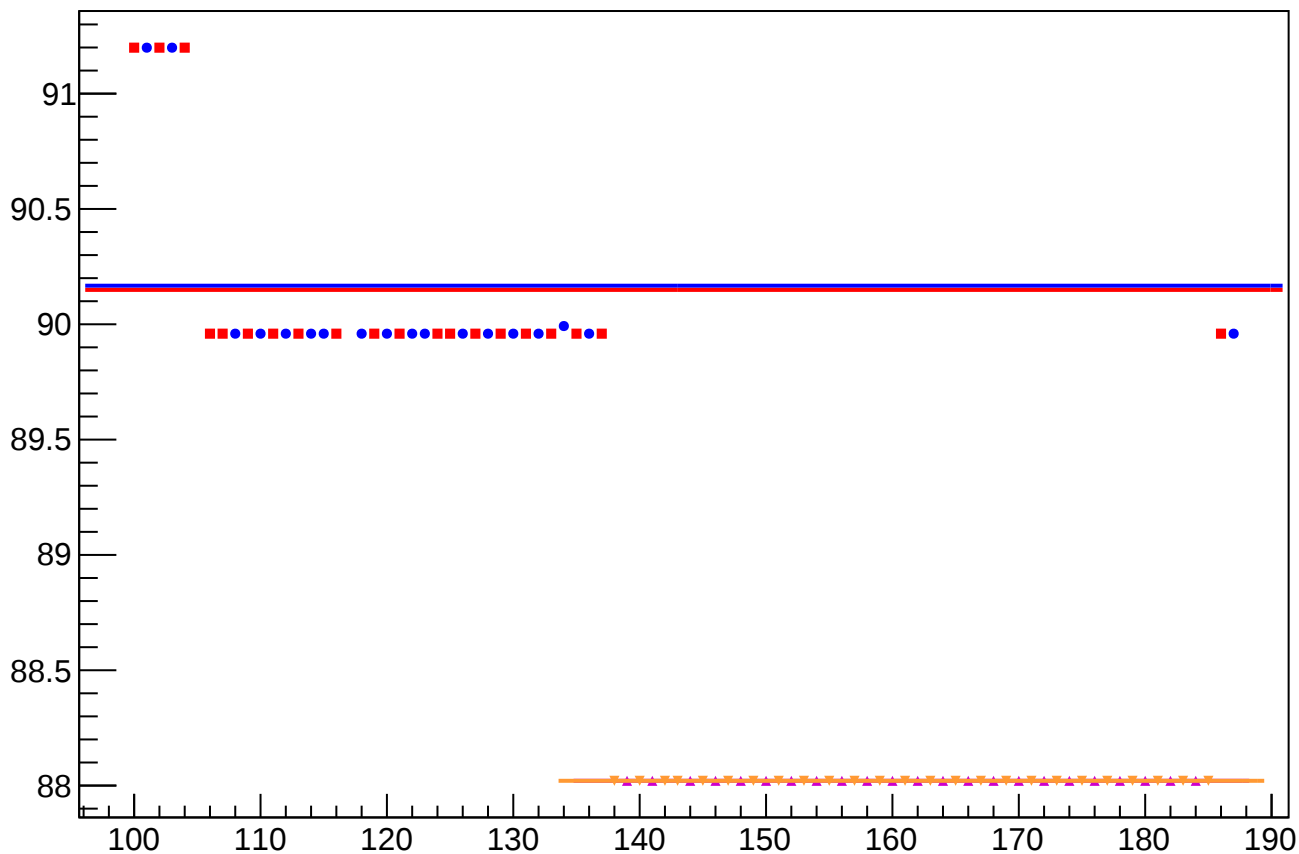
Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24

Right Out: 1399.288+/-0.000 χ^2/NDF : 78429829645423881874217030841702285312.0/19

Left In: 1467.994+/-0.000 χ^2/NDF : 14449772795444989723550941184.0/22

All: 1458.761+/-0.000 χ^2/NDF : 81705060076.0/22

epics_Phi_FGs_mean vs Slug



Right In: 90.167 $\pm$ 0.000 χ^2 /NDF: 150889545922426711882929765613568.0/17

Left Out: 88.021 $\pm$ 0.000 χ^2 /NDF: 5679798.5/24

Right Out: 90.149 $\pm$ 0.000 χ^2 /NDF: 151066157255966494669604044931072.0/19

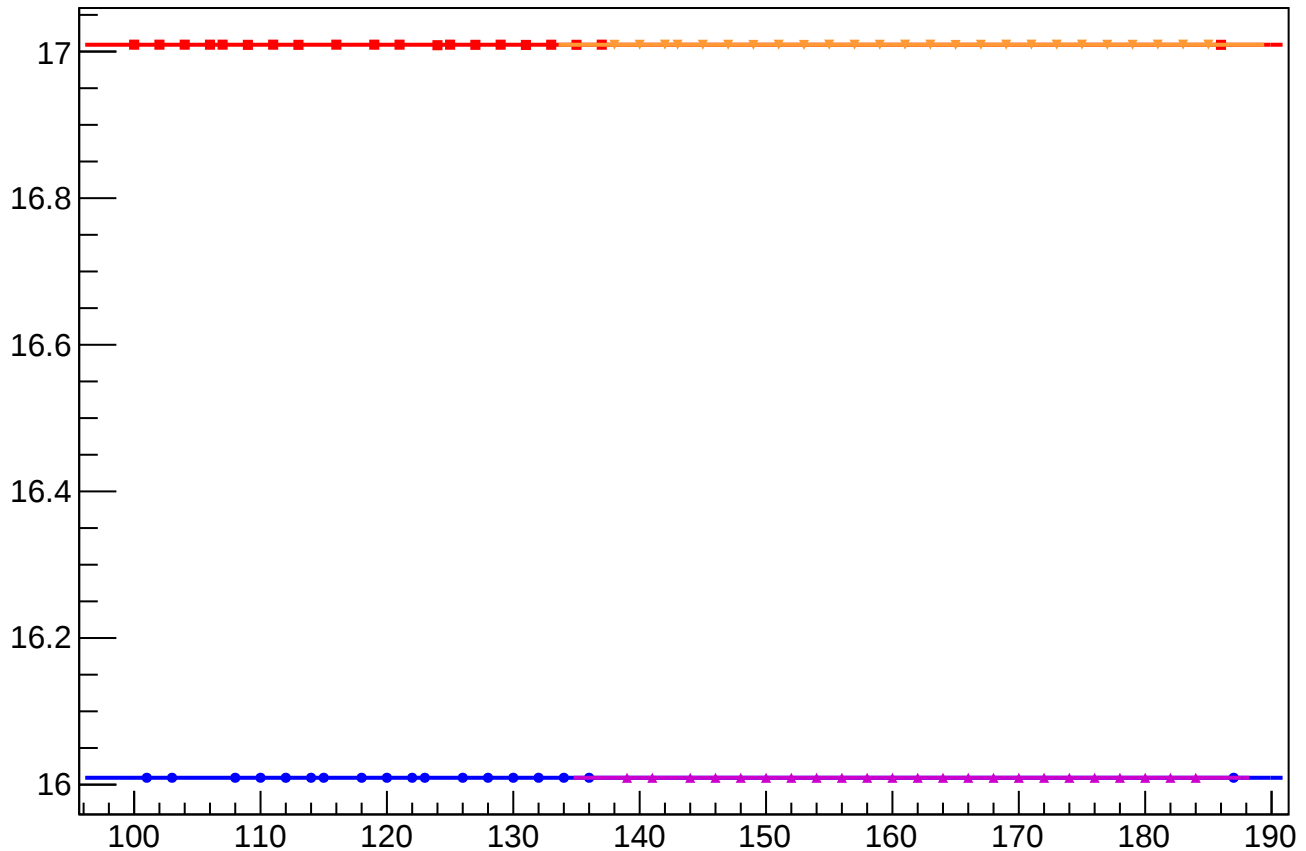
Left In: 88.021 $\pm$ 0.000 χ^2 /NDF: 6257169.0/22

+ sign 88.602 $\pm$ 0.000 χ^2 /NDF: 2526728077959251

All: 88.627 $\pm$ 0.000 χ^2 /NDF: 5095698222222

- sign 88.652 $\pm$ 0.000 χ^2 /NDF: 2565655640175819

epics_IGL1I00DI24_24Ms_mean vs Slug



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 46713.2/17

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12979914921503733711896576.0/19

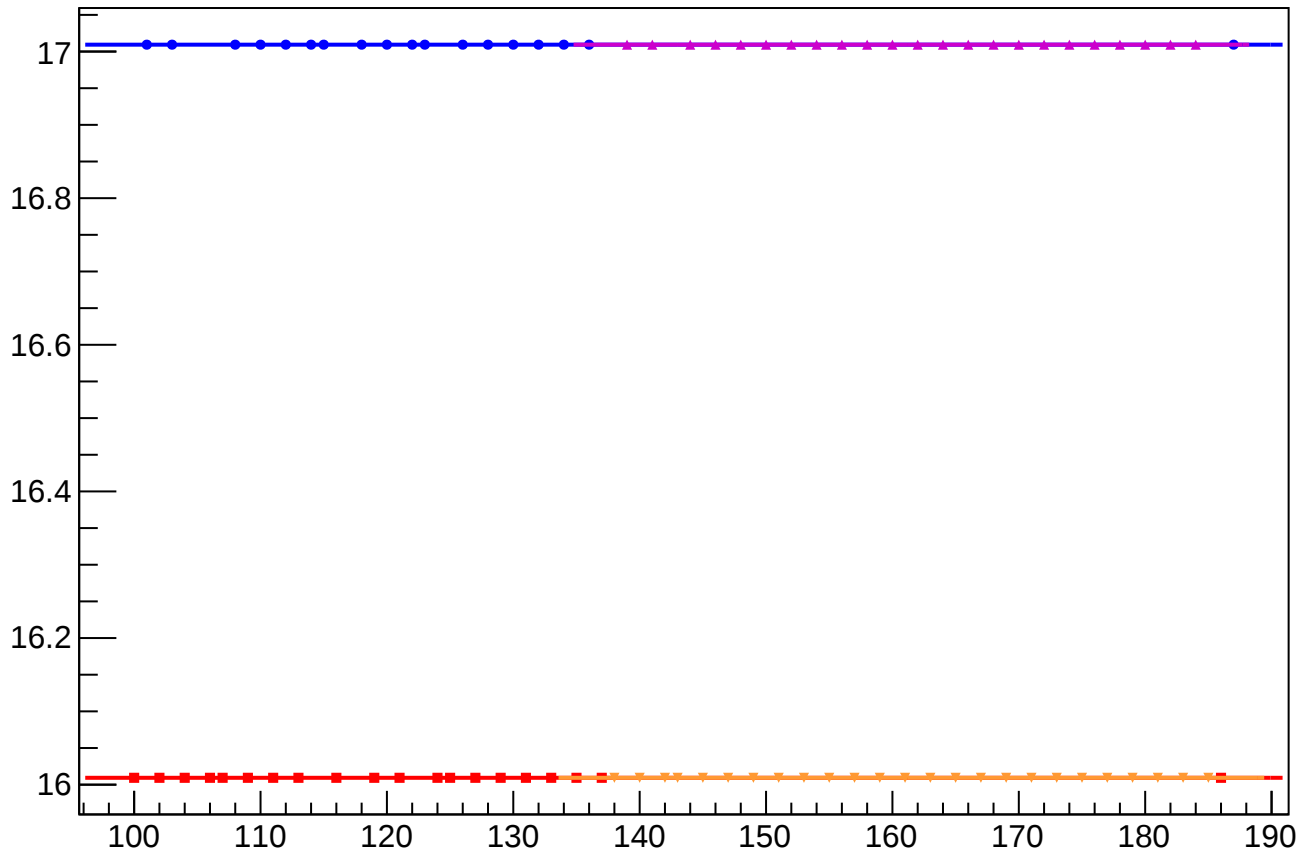
Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

+ sign 16.733 $\pm$ 0.000 χ^2 /NDF: 4885433602708605

All: 16.522 $\pm$ 0.000 χ^2 /NDF: 1200024121670

- sign 16.302 $\pm$ 0.000 χ^2 /NDF: 4884986107046241

epics_IGL1I00OD16_16s_mean vs Slug



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 120007.8/17

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39556.6/19

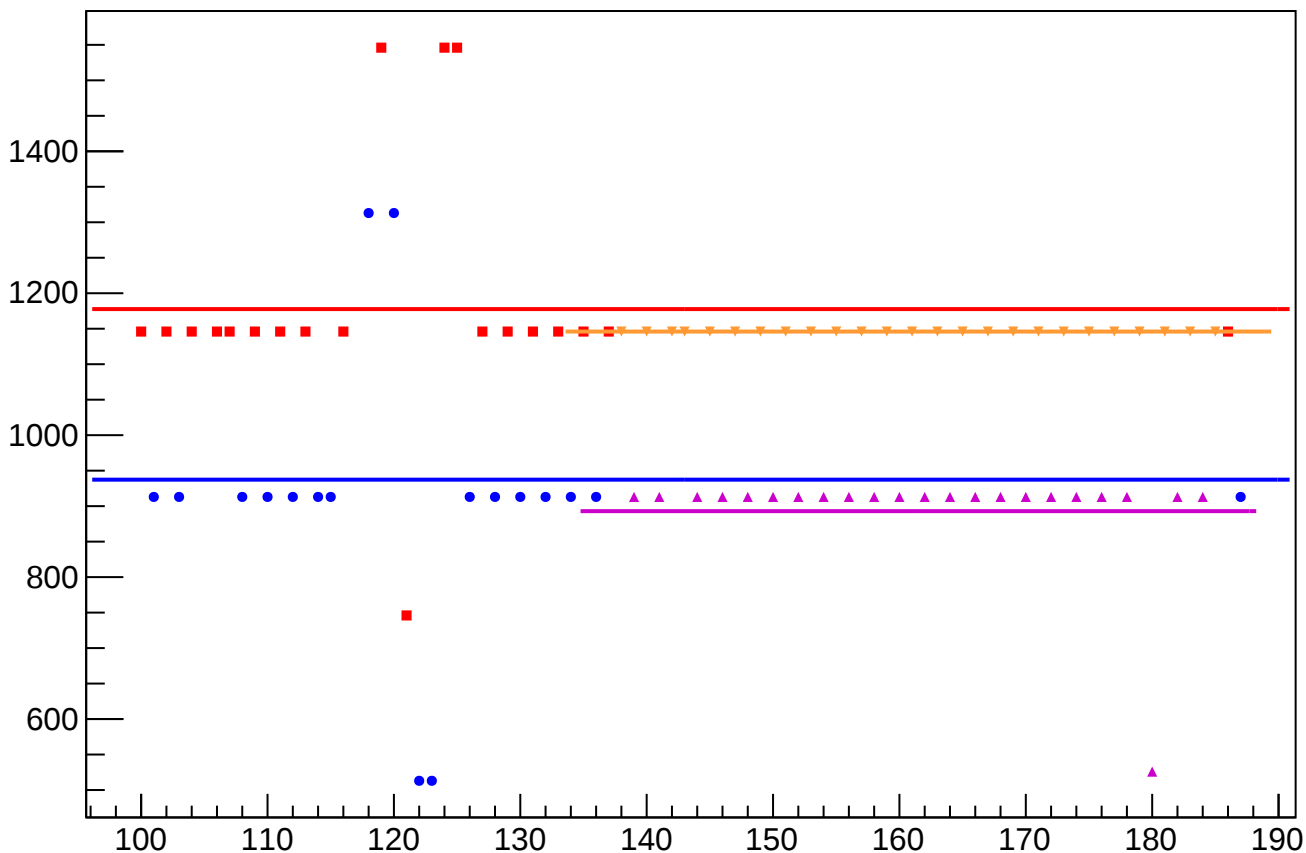
Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

+ sign 16.273 $\pm$ 0.000 χ^2 /NDF: 4967429577464734

All: 16.489 $\pm$ 0.000 χ^2 /NDF: 1262399278489

- sign 16.709 $\pm$ 0.000 χ^2 /NDF: 5255780601685742

epics_RTPAPOSUCNTs_mean vs Slug



Right In: 937.323+/-0.000 χ^2/NDF : 20862888511214490429560050003065438208.0/17

+ sign 1089.525+/-0.000 χ^2/NDF : 43319012421386

Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24

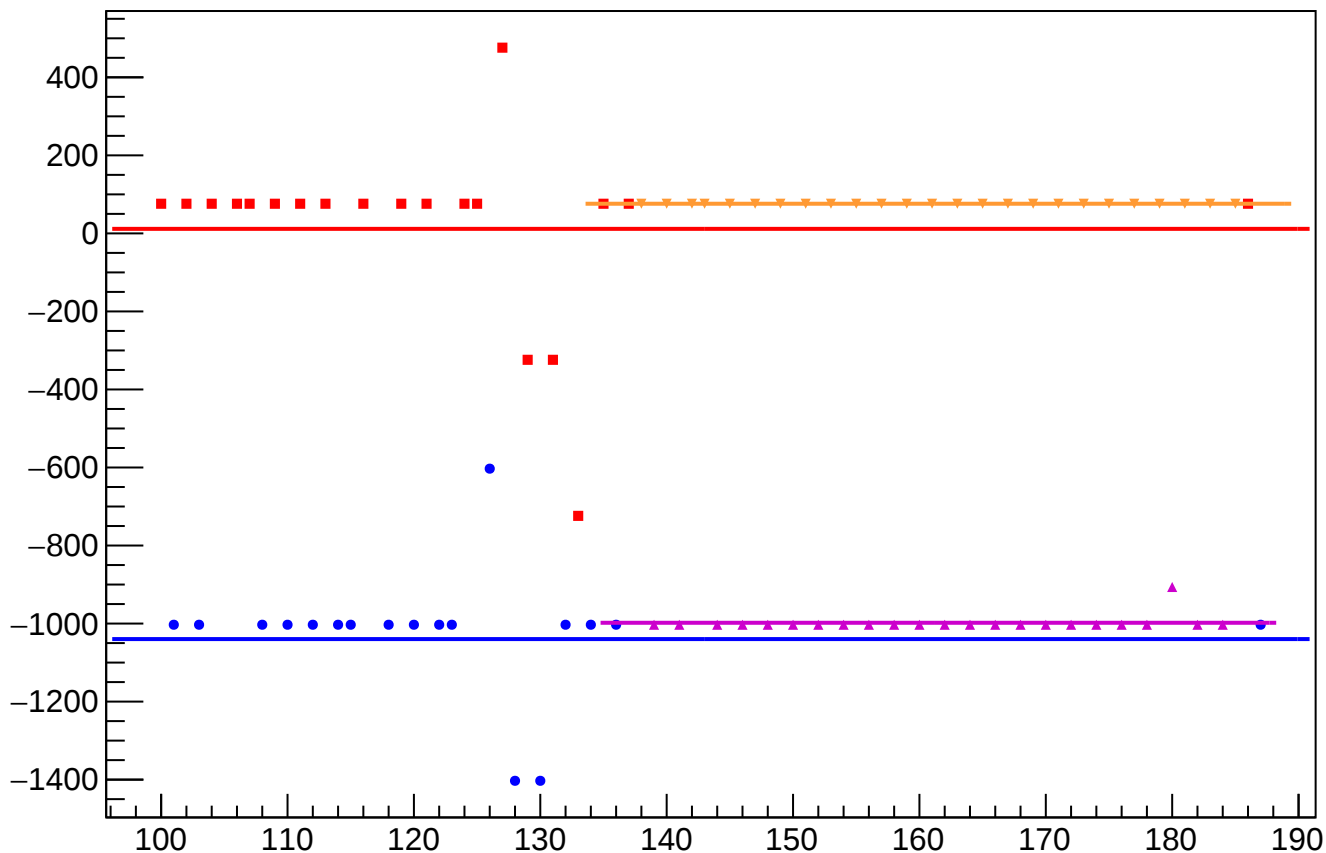
All: 1034.118+/-0.000 χ^2/NDF : 13728425739

Right Out: 1177.672+/-0.000 χ^2/NDF : 21320818259795130126526255085836566528.0/19

- sign 977.453+/-0.000 χ^2/NDF : 777458793214653

Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22

epics_RTPAPOSVCNTs_mean vs Slug



Right In: -1039.764 $\pm$ 0.000 χ^2 /NDF: 22243510961945917813639904030214848512.0/17
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 11479003589933272170007363584.0/24
 Right Out: 11.630 $\pm$ 0.000 χ^2 /NDF: 43897956164204836843302096707514269696.0/19
 Left In: -997.979 $\pm$ 0.000 χ^2 /NDF: 825858066518991041870194619245920256.0/22